

										DRAWING INDEX									
										5/29/2025									
										SHEET #									
										SHEET NAME									
										● G-0.0 COVER SHEET, CODE INFO, PROJECT DATA, & DIRECTORY									
										● G-0.1 SPECIFICATIONS & GENERAL NOTES									
										● G-0.2 DIVISION OF WORK & SYMBOL LEGEND									
										● D-1.1 DEMOLITION PLANS									
										● A-0.1 SCHEDULES									
										● A-1.1 CONSTRUCTION PLAN, SCHEDULES, & NOTES									
										● A-1.2 FITTING ROOM PLAN & DETAILS									
										● A-1.3 ENLARGED TOILET ROOM, PLAN & DETAILS									
										● A-1.4 CONSTRUCTION DETAILS									
										● A-2.1 REFLECTED CEILING PLAN & DETAILS									
										● A-3.1 EXTERIOR ELEVATION									
										● A-4.1 INTERIOR ELEVATIONS									
										● A-5.1 FINISH PLAN									
										● A-6.1 LOW VOLTAGE PLAN									
										● F-1.1 FIXTURE PLAN, SCHEDULE & NOTES									
										● F-1.2 FIXTURE DETAILS									
										● F-2.1 INTERIOR SIGNAGE & GRAPHICS PLANS									
										● E-001 ELECTRICAL COVER SHEET									
										● E-100 ELECTRIC LIGHTING PLAN									
										● E-101 ELECTRIC LIGHTING - DETAILS									
										● E-200 ELECTRIC POWER PLAN									
										● E-300 ELECTRIC POWER - SINGLE LINE DIAGRAM									
										● E-301 ELECTRIC PANEL SCHEDULES									
										● E-400 ENERGY COMPLIANCE									
										● E-500 ELECTRICAL SPECIFICATIONS									
										● E-501 ELECTRICAL SPECIFICATIONS									
										● M-001 MECHANICAL COVER SHEET									
										● M-101 MECHANICAL DUCTWORK PLAN									
										● M-401 ENERGY COMPLIANCE									
										● M-501 MECHANICAL SPECIFICATIONS									
										● M-601 MECHANICAL DETAILS									
										● M-602 MECHANICAL SPECIFICATIONS									
										● P-001 PLUMBING COVER SHEET									
										● P-101 PLUMBING PLAN									
										● P-501 PLUMBING SPECIFICATIONS									
										● P-601 PLUMBING DETAILS & SCHEDULES									
- SHEET INDEX																			
FIXTURES - GRAND + BENEDICTS C: MOLLY CROUSER T: 503.233.6222 E: MOLLYC@GRAND-BENEDICTS.COM										STOCK ROOM FIXTURES - PIPP MOBILE STORAGE SYSTEMS, INC. C: KATY LOWRY T: 616.988.4063 E: KLOWRY@PIPPMOBILE.COM									
LIGHTING - CITY LIGHTING C: TOM MISPAGE T: 314.534.1090 E: TMISPAGE@CITYLIGHTING.COM										SENSORMATIC - JOHNSON CONTROLS C: MH TOHT T: 269.271.8401 E: MH.TOHT@JCI.COM									
LOCKS / SAFE - REDFORD LOCK SECURITY SOLUTIONS C: DAVID BOILORE T: 313.401.7004 E: DBOILORE@REDLORDLOCK.COM										REGISTERED ACCESSIBILITY SPECIALIST JOHNSON - KELLY ASSOCIATES, INC. 780 N WATTERS RD, STE 150 ALLEN, TX 75013 C: JEFFERY L. KELLEY T: 972.422.5384 EXT 1869 E: JKELLEY@JOHNSONKELLEY.COM RAS #: 55									
SIGNAGE - VICTORY SIGN INDUSTRIES C: DANA REYNOLDS T: 706.820.6820 E: DREYNOLDS@VICTORYSIGN.COM																			
- VENDOR CONTACTS																			
LANDLORD - TENANT COORDINATOR ALAMO QUARRY MARKET 255 E BASSE RD, SUITE 400 SAN ANTONIO, TX 78209 C: PRISCILLA GONZANBA, SR. PROPERTY MGR. T: 210.826.1724 E: PGOZANBA@QUARRYMARKET.COM										PROGRAM MANAGER RGLA SOLUTIONS, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 C: ADRIAN TAFOLLA / SANDI LEAMON T: 847.916.2728 / 847.707.7452 E: ATAFOLLA@RGLA.COM / SLEAMON@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 CAITLIN DODGE ROBERT G. LYON & ASSOCIATES, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 PLEASE CONTACT PROGRAM MANAGER FOR ALL INQUIRIES.																			
- 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

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.

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.

**carhartt** 

ALAMO QUARRY MARKET  
7322 JONES MALTSBERGER RD.  
SUITE 112  
SAN ANTONIO, TX 78209

TABS2025019368

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<b>SCOPE OF WORK STATEMENT</b> 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.	<b>PERMIT SCOPE INCLUDES</b> <b>ONLY CHECKED BOXES</b> <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
	<b>MALL TYPE</b> <input type="checkbox"/> COVERED MALL BUILDING <input type="checkbox"/> EXTERIOR MALL <input type="checkbox"/> STREET LOCATION

-	SCOPE OF WORK
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APPLICABLE CODES	
BUILDING:	2024 INTERNATIONAL BUILDING CODE
ELECTRICAL:	2024 NATIONAL ELECTRICAL CODE
MECHANICAL:	2024 INTERNATIONAL MECHANICAL CODE
PLUMBING:	2024 INTERNATIONAL PLUMBING CODE
ACCESSIBILITY:	TEXAS ACCESSIBILITY STANDARD
FIRE CODE:	2024 INTERNATIONAL FIRE CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE
EXISTING BUILDING CODE:	2024 INTERNATIONAL EXISTING BUILDING CODE

OCCUPANCY LOAD CALCULATIONS		
GROSS AREA:	4,890 SQ.FT. (LEASED AREA)	
SALES AREA:	3,402 SQ.FT. / 60 SQ.FT. PER PERSON =	57
FITTING ROOMS:	2 PRIVATE FITTING ROOMS =	2
TOILET ROOM:	1 PRIVATE TOILET ROOM =	1
OFFICE	1 PRIVATE OFFICE =	1
HALLWAY	151 SQ.FT. / 300 SQ.FT. PER PERSON =	1
BREAK ROOM	190 SQ.FT. / 300 SQ.FT. PER PERSON =	1
STOCKROOM:	900 SQ.FT. / 300 SQ.FT. PER PERSON =	3
TOTAL OCCUPANCY:		66 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	4,890 SQ.FT. AREA OF WORK
OCCUPANT LOAD:	IBC SECTION 1004.1 & NFPA 101	66 PERSONS
NUMBER OF EXITS:	IBC TABLE 1006.3	2 REQUIRED
		2 PROVIDED
EXIT WIDTH:	IBC TABLE 1005.1	26 4" 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 SAN ANTONIO, TX.	
CAITLIN DODGE LICENSE #: 27873 EXPIRATION DATE: 9/30/25	 <i>Caitlin Dodge</i> SEAL:
-	CERTIFICATION STATEMENT

**STOCKROOM**  
3 OCC.

**SALES**  
57 OCC.

**(EXISTING) EXIT #2**  
66 OCCUPANTS X 0.2 PERSON = 13.2' REQ'D.  
36" WIDTH PROVIDED

**FITTING RM AREA**  
2 OCC.

**EXISTING TOILET ROOM**  
1 OCC.

**TRAVEL DISTANCE: 37'-4"**

**TRAVEL DISTANCE: 36'-2"**

**TRAVEL DISTANCE: 46'-4"**

**TRAVEL DISTANCE: 82'-0"**

**TRAVEL DISTANCE: 72'-6"**

**TRAVEL DISTANCE: 112'-9"**

**OFFICE**  
1 OCC.

**HALLWAY**  
1 OCC.

**BREAK RM / ELEC/DATA RM**  
1 OCC.

**(EXISTING) EXIT #1**  
66 OCCUPANTS X 0.2 PERSON = 13.2' REQ'D.  
72" WIDTH PROVIDED

EGRESS PLAN	SCALE
	1/8"=1'-0"

PROPOSED  
CARHARTT  
SPACE

EXISTING  
ACCESSIBLE  
PARKING


KEY PLAN

The site plan shows a large parking lot with numerous stalls. A specific area on the left side of the lot is highlighted in dark grey and labeled 'PROPOSED CARHARTT SPACE'. Another area, consisting of several stalls, is highlighted in light grey and labeled 'EXISTING ACCESSIBLE PARKING'. The plan includes various building footprints, some with labels like 'Bldg 1', 'Bldg 2', 'Bldg 3', 'Bldg 4', 'Bldg 5', 'Bldg 6', 'Bldg 7', 'Bldg 8', 'Bldg 9', 'Bldg 10', 'Bldg 11', 'Bldg 12', 'Bldg 13', 'Bldg 14', 'Bldg 15', 'Bldg 16', 'Bldg 17', 'Bldg 18', 'Bldg 19', 'Bldg 20', 'Bldg 21', 'Bldg 22', 'Bldg 23', 'Bldg 24', 'Bldg 25', 'Bldg 26', 'Bldg 27', 'Bldg 28', 'Bldg 29', 'Bldg 30', 'Bldg 31', 'Bldg 32', 'Bldg 33', 'Bldg 34', 'Bldg 35', 'Bldg 36', 'Bldg 37', 'Bldg 38', 'Bldg 39', 'Bldg 40', 'Bldg 41', 'Bldg 42', 'Bldg 43', 'Bldg 44', 'Bldg 45', 'Bldg 46', 'Bldg 47', 'Bldg 48', 'Bldg 49', 'Bldg 50', 'Bldg 51', 'Bldg 52', 'Bldg 53', 'Bldg 54', 'Bldg 55', 'Bldg 56', 'Bldg 57', 'Bldg 58', 'Bldg 59', 'Bldg 60', 'Bldg 61', 'Bldg 62', 'Bldg 63', 'Bldg 64', 'Bldg 65', 'Bldg 66', 'Bldg 67', 'Bldg 68', 'Bldg 69', 'Bldg 70', 'Bldg 71', 'Bldg 72', 'Bldg 73', 'Bldg 74', 'Bldg 75', 'Bldg 76', 'Bldg 77', 'Bldg 78', 'Bldg 79', 'Bldg 80', 'Bldg 81', 'Bldg 82', 'Bldg 83', 'Bldg 84', 'Bldg 85', 'Bldg 86', 'Bldg 87', 'Bldg 88', 'Bldg 89', 'Bldg 90', 'Bldg 91', 'Bldg 92', 'Bldg 93', 'Bldg 94', 'Bldg 95', 'Bldg 96', 'Bldg 97', 'Bldg 98', 'Bldg 99', 'Bldg 100'. A north arrow is located in the bottom right corner.

[illegible]

THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THIS OFFICE. AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THAT FOR WHICH THEY WERE SPECIFICALLY PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE A CONCLUSIVE EVIDENCE OF VIOLATION OF THESE RESTRICTIONS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCY BETWEEN THE DIMENSIONS FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS SPECIFICATION MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. FOR DETAILS OF THE PROJECT, CONTACT THE OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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<b>carhartt</b> 
ALAMO QUARRY MARKET 7322 JONES MALTSBERGER RD. SUITE 112 SAN ANTONIO, TX 78209
COVER SHEET, CODE INFORMATION, PROJECT DATA, & DIRECTORY
DRAWN BY SLS
CHECKED BY AT / S/L
JOB NUMBER 25341
SHEET NAME G-0.0



01. GENERAL REQUIREMENTS:		D. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL OTHER CONTRACTORS AND VENDORS WORKING IN THE SPACE.		FIRE RESISTANT TREATED: B. ALL DIMENSIONAL LUMBER TO BE FIRE RETARDANT WITH U.L. RATING "NON-COMBUSTIBLE."		AMERICA INSTALLATION HANDBOOK, SEE E.1171-88. A.B. ALL CONCRETE MUST BE SCAURED (ALSO AFTER PATCHING OR LEVELING) WITH 3-1/2" OPEN GRIT PAPER TO LOOSEN DIRT AND REMOVE WEAK CONCRETE.		1. THE CONTRACTOR SHALL REVIEW DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN.	
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.		21. SUBMITTALS. SUBMITTALS SHALL BE PROVIDED FOR MATERIALS AND ASSEMBLIES LISTED IN EACH SECTION OF THIS SPECIFICATION: A. SHOP DRAWINGS AND SAMPLES: WHERE CALLED FOR IN DOCUMENTS, SUBMIT TO ARCHITECT FOR APPROVAL AS FOLLOWS. A.A. REPRODUCIBLE DRAWINGS: ONE SEPA TRANSPARENCY. A.B. NON-REPRODUCIBLE DATA: TWO COPIES. A.C. SAMPLES: (2) EACH. A.D. CLEARLY MARK ALL SUBMISSIONS WITH DATA, PROJECT, CONTACT AND SUB-CONTRACTOR AND ALLOW SPACE FOR APPROVAL STAMP. B. PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL INFORMATION AND INSTALLATION INSTRUCTIONS FOR SPECIFIED MATERIALS, EXCEPT BULK MATERIALS, TO THE TENANT (COPY TO THE ARCHITECT). C. PRODUCT WARRANTY: SUBMIT MANUFACTURER'S PRODUCT AND MATERIAL INFORMATION TO TENANT (COPY TO THE ARCHITECT).		3. FINISH CARPENTRY: CABINETRY, AND WOOD TRIM: A. ALL MILLWORK SHALL COMPLY WITH THE APPROPRIATE SPECIFICATIONS OF THE ARCHITECTURAL QUALITY STANDARDS (ILLUSTRATED "OF THE AMERICAN WOODWORK INSTITUTE (AWI) FOR "CUSTOM" GRADE MILLWORK 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. C. MILLWORK CONTRACTOR SHALL VERIFY ALL DIMENSIONS AFFECTING HIS WORK IN THE FIELD PRIOR TO FABRICATION. D. FIXTURE MILLWORK AS NOTED ON DRAWINGS IS SUPPLIED BY TENANT AND INSTALLED BY TENANT GENERAL CONTRACTOR. E. SOME FIELD ASSEMBLY OF MILLWORK IS REQUIRED. FOLLOW SHOP DRAWING ACCOMPANYING MILLWORK. ALL FIELD ASSEMBLED MILLWORK TO BE SCRIBED AND JOINED ACCURATELY. F. INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. 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		6. CARPETING: (WHEN APPLICABLE) A. INSTALLATION: A.A. PREPARE SUBSTRATE FOR CARPET: CLEAN, SCRAPE, FILL AND LEVEL FLOOR AS REQUIRED FOR NEW CARPET. B. INSTALLATION TO BE DIRECTGLUE-DOWN METHOD, USING LATEX MASTIC - ROBERT SEAM SEALER #4015, CAPITAL ADHESIVES OR EQUAL. A.C. GENERAL CONTRACTOR TO INSTALL METAL ANGLE PER DETAIL ON DRAWINGS. MITER CUT CORNERS AND NAIL TO SUBFLOOR. A.D. ALL DEBRIS TO BE LEGALLY REMOVED FROM PREMISES. SEE NOTE #6. A.E. SEE SHT. A-1 FOR TRANSITION STRIP LOCATIONS AND FINISH SCHEDULE THIS SHT. FOR SPECS. A.F. CLEAN AND VACUUM AFTER INSTALLATION. ANY SCRAPS LARGER THAN 48" SHALL BE ROLLED AND TURNED OVER TO THE TENANT (ATTIC STOCK).		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. 3. CONTRACTOR SHALL NOT DISTURB THE DELIVERIES AND FUNCTION OF ADJACENT TENANTS OR BUILDINGS OPERATION DURING THE ENTIRE DURATION OF THE PROJECT. 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. 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. 6. ALL WORK IS TO CONFORM WITH ARCHITECTS DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AS REQUIRED TO FULFILL THE INTENTIONS OF THE DOCUMENTS. 7. ALL CONSTRUCTION SHALL CONFORM TO AND BE IN ACCORDANCE WITH, THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION 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. 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'S/TENANT'S REPRESENTATIVE. FAILURE TO OBTAIN PRIOR AUTHORIZATION CAN INVALIDATE A CLAIM FOR ADDITIONAL COMPENSATION. 10. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORDS RULES AND REGULATIONS ON MATERIAL HANDLING, EQUIPMENT, DEBRIS, ELEVATOR AND/OR LOADING DOCK AVAILABILITY, AND ALL THERE TENANT CONSTRUCTION REGULATIONS. 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. 12. ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS UNLESS AUTHORIZED IN WRITING BY THE LANDLORD AND/OR OWNERTENANT. 13. IF APPLICABLE TO THE PROJECT, PASSENGER ELEVATORS SHALL NOT BE USED BY THE TRADES AT ANY TIME DURING THE PERFORMANCE OF THE WORK. 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 WORKMANSHIP, 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'S/TENANTS REPRESENTATIVE PRIOR TO THE PLACEMENT OF THE ORDER. 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 OWNERTENANT AND LANDLORD ANY SPECIAL REQUIREMENTS TO PROTECT BUILDING SYSTEMS, EQUIPMENT OR COMPUTERS. 16. DO NOT CLOSE, OBSTRUCT, OR STORE MATERIAL IN WALKWAYS, PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS. 17. NO USE OF ARC WELDING BLOWTORN EQUIPMENT SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER/TENANT OR LANDLORD. 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. 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. 20. GENERAL CONTRACTOR IS TO COORDINATE ALL DELIVERIES WITH THE LANDLORD'S DESIGNATED REPRESENTATIVES 21. GENERAL CONTRACTOR IS TO ACQUIRE AND CONFORM TO THE LANDLORDS CRITERIA AND CONDITIONS FOR GENERAL CONTRACTORS. 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. 23. COORDINATE ALL FLOOR CUTS WITH THE OPERATIONS DIRECTOR FOR THE PROPERTY 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. 25. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGES DONE TO THE LANDLORD / PROPERTY PROPERTY AT THEIR OWN EXPENSE. 26. SIGNAGE SHOP DRAWINGS MUST BE SUBMITTED FOR LANDLORD AND CITY REVIEW AND APPROVAL. 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. 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. 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. 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.	
2. CONTRACTS: THE 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.		4. INSURANCE: ALL CONTRACTORS (GENERAL AND SUBCONTRACTORS) SHALL COMPLY WITH THE LANDLORDS AND TENANTS REQUIREMENT FOR INSURANCE, BONDS AND WAIVERS OF LIEN. A. PRIOR TO COMMENCEMENT OF THE WORK, ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN INSURANCE POLICIES AS OUTLINED BELOW. INSURANCE POLICES 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. B. WORKMAN'S COMPENSATION AND OCCUPATIONAL DISEASE INSURANCE: B.A. STATE- STATUTORY. B.B. APPLICABLE FEDERAL (E.G.: LONGSHOREMEN, HARBOR WORK, WORK OUTSIDE THE UNITED STATES)- STATUTORY. B.C. EMPLOYER'S LIABILITY: \$500,000.00 PER ACCIDENT \$500,000.00 DISEASE B.D. BENEFITS REQUIRED BY UNION LABOR CONTRACTS AS APPLICABLE C. COMPREHENSIVE GENERAL LIABILITY (INCLUDING PREMISES - OPERATIONS; INDEPENDENT CONTRACTORS' PROTECTIVE; PRODUCTS AND COMPLETED OPERATIONS; BROAD FORM PROPERTY DAMAGE; AUTOMOBILE COVERAGE, AND CONTRACTUAL LIABILITY.) C.A. BODILY INJURY: \$4,000,000.00 EACH OCCURRENCE \$4,000,000.00 AGGREGATE C.B. PROPERTY DAMAGE (INCLUDING WATER DAMAGE AND SPRINKLER LEAKAGE, LEGAL LIABILITY): \$4,000,000.00 EACH OCCURRENCE \$4,000,000.00 AGGREGATE 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 AFORESAIDED PERIOD. C.D. PROPERTY DAMAGE LIABILITY INSURANCE SHALL INCLUDE COVERAGE FOR EXPLOSION AND COLLAPSE. C.E. CONTRACTUAL LIABILITY (HOLD HARMLESS COVERAGE): BODILY INJURY: \$2,000,000.00 EACH OCCURRENCE PROPERTY DAMAGE: \$2,000,000.00 EACH OCCURRENCE \$2,000,000.00 AGGREGATE C.F. PERSONAL INJURY (WITH EMPLOYMENT EXCLUSION DELETED): C.G. \$2,000,000.00 EACH PERSON D. COMPREHENSIVE AUTOMOBILE LIABILITY (OWNED, NON-OWNED, HIRED) D.A. BODILY INJURY: \$2,000,000.00 EACH PERSON \$2,000,000.00 EACH ACCIDENT D.B. PROPERTY DAMAGE: \$2,000,000.00 EACH OCCURRENCE E. OTHER INSURANCE AND BONDS AS MAY BE REQUIRED BY THE LANDLORD (VERIFY REQUIREMENTS WITH THE LANDLORD).		15. SITE ACCESS: COORDINATE SITE ACCESS, WORK HOURS, WORKER PARKING, LOADING AND UNLOADING AND STORAGE OF MATERIALS WITH THE LANDLORD. 16. JOB SAFETY REQUIREMENTS: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY DURING CONSTRUCTION. PROVIDE AND POST SAFETY RULES AT THE JOBSITE. 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. 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. 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. 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.		7. PAINTING: A. PAINT SHALL BE MANUFACTURER AND COLOR AS NOTED IN THE SCHEDULES. 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. C. ALL SURFACES TO BE PAINTED SHALL RECEIVE ONE (1) COAT OF PRIMER AND TWO (2) FINISH COATS. D. PAINT COLORS-SEE FINISH SCHEDULE. E. GENERAL CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN WOOD TRIM. F. ALL ELECTRICAL PLATES AND DEVICES TO RECEIVE FINISH AS NOTED ON EMP SPECIFICATIONS.		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. 12. ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS UNLESS AUTHORIZED IN WRITING BY THE LANDLORD AND/OR OWNERTENANT. 13. IF APPLICABLE TO THE PROJECT, PASSENGER ELEVATORS SHALL NOT BE USED BY THE TRADES AT ANY TIME DURING THE PERFORMANCE OF THE WORK. 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 WORKMANSHIP, 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'S/TENANTS REPRESENTATIVE PRIOR TO THE PLACEMENT OF THE ORDER. 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 OWNERTENANT AND LANDLORD ANY SPECIAL REQUIREMENTS TO PROTECT BUILDING SYSTEMS, EQUIPMENT OR COMPUTERS. 16. DO NOT CLOSE, OBSTRUCT, OR STORE MATERIAL IN WALKWAYS, PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS. 17. NO USE OF ARC WELDING BLOWTORN EQUIPMENT SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER/TENANT OR LANDLORD. 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. 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. 20. GENERAL CONTRACTOR IS TO COORDINATE ALL DELIVERIES WITH THE LANDLORD'S DESIGNATED REPRESENTATIVES 21. GENERAL CONTRACTOR IS TO ACQUIRE AND CONFORM TO THE LANDLORDS CRITERIA AND CONDITIONS FOR GENERAL CONTRACTORS. 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. 23. COORDINATE ALL FLOOR CUTS WITH THE OPERATIONS DIRECTOR FOR THE PROPERTY 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. 25. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGES DONE TO THE LANDLORD / PROPERTY PROPERTY AT THEIR OWN EXPENSE. 26. SIGNAGE SHOP DRAWINGS MUST BE SUBMITTED FOR LANDLORD AND CITY REVIEW AND APPROVAL. 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. 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. 29. 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3. PERMITS & CERTIFICATES: ALL WORK SHALL COMPLY WITH STATE AND LOCAL REGULATIONS AND ORDINANCES, ANY OTHER APPLICABLE CODES AND SHOPPING CENTER CRITERIA. A. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND ARRANGE FOR ALL INSPECTIONS BY LOCAL JURISDICTIONS. 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. 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).		18. RECORD DRAWINGS/0&M MANUALS: MAINTAIN, ON SITE, ONE SET OF CONTRACT DOCUMENTS TO BE UTILIZED FOR RECORD DRAWINGS. RECORD ALL REVISIONS OF WORK. 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. 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. B.A. PROVIDE THE LANDLORD WITH COPIES OF RECORD DRAWINGS AND O & M MANUALS AS REQUIRED.		2. BUILDING INSULATION (WHEN APPLICABLE): A. CEILING INSULATION - SOUND BATTS: 3 1/2" THICK SOUND ATTENUATION BATT INSULATION CONFORMING TO ASTM C865 AS MANUFACTURED BY OWENS CORNING FIBERGLASS "FREECOED 60", R19. B. WALL INSULATION - THERMAL BATT - 1 1/2" THICK FOILFACED BATT INSULATION - TYPE 703, R 6.5 C. WALL INSULATION - THERMAL BATT - 3 1/2" THICK FOILFACED BATT INSULATION - TYPE 705, R 15.2 (WHEN APPLICABLE)		8. ENGINEERED WOOD FLOORING: A. MATERIALS: A.A. PROVIDE MATERIALS AS NECESSARY FOR A COMPLETE INSTALLATION. A.B. UNDER FLOOR MATERIAL, TO BE AS SPECIFIED IN FINISH SCHEDULE. A.C. FINISHES TO BE AS SPECIFIED IN THE FINISH SCHEDULE. B. INSTALLATION B.A. INSTALL PER MANUFACTURER'S DIRECTIONS. B.B. PROVIDE MOISTURE TEST B.C. PROVIDE MANUFACTURER RECOMMENDED MOISTURE BARRIER AS NEEDED		13. IF APPLICABLE TO THE PROJECT, PASSENGER ELEVATORS SHALL NOT BE USED BY THE TRADES AT ANY TIME DURING THE PERFORMANCE OF THE WORK. 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 WORKMANSHIP, 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'S/TENANTS REPRESENTATIVE PRIOR TO THE PLACEMENT OF THE ORDER. 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 OWNERTENANT AND LANDLORD ANY SPECIAL REQUIREMENTS TO PROTECT BUILDING SYSTEMS, EQUIPMENT OR COMPUTERS. 16. DO NOT CLOSE, OBSTRUCT, OR STORE MATERIAL IN WALKWAYS, PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS. 17. NO USE OF ARC WELDING BLOWTORN EQUIPMENT SHALL BE ALLOWED WITHOUT PRIOR WITHOUT	

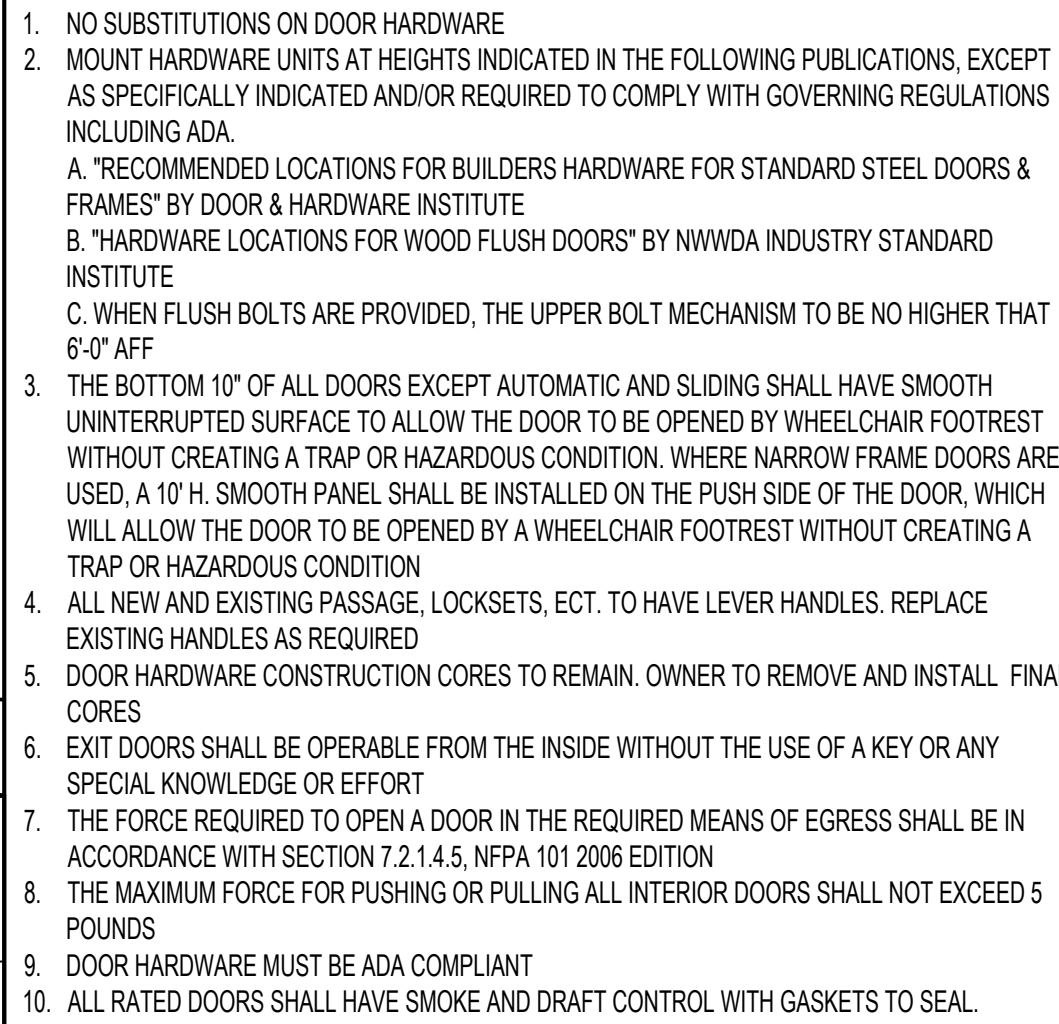












5	DOOR GENERAL NOTES
1.	ALL FINISH MATERIALS TO BE CLASS 1: = FLAME SPREAD INDEX 0-25: SMOKE-DEVELOPED INDEX 200
2.	G.C. SHALL VERIFY THAT THE MAXIMUM THRESHOLD HEIGHT DOES NOT EXCEED 1/2"
3.	NEW WEATHER-STRIPPING TO BE INSTALLED ON ALL EXISTING EXTERIOR DOORS AND REQUIRED.

3	FINISH GENERAL NOTES
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	FURN. & INST. BY G.C.
	FURN. BY OWNER / INST. BY GC
	EXISTING
	MILLWORK
	NOT USED

NOTE: ALL WALLS SHALL BE EGGSHELL, ALL DRYWALL CEILINGS SHALL BE FLAT, DOOR/JAMBS TO BE SATIN.  
BEFORE PURCHASE PROVIDE DRAW-DOWN TO ARCHITECT FOR APPROVAL

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	●				

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	●

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

(WC-1)	PIONEER MILLWORKS - AMERICAN PRAIRIE REDWOOD - 4.5"W X RANDOM LENGTHS T&G, ONE FACE UNTOUCHED W/ WIREBRUSH LIGHT FINISHED. INSTALL OVER 3/4" PLYWOOD THAT HAS BEEN PAINTED P-8 CONTACT: JESSICA SHELTON 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 TBRASELL@GMAIL.COM PRODUCT IS SELF ADHESIVE. USE PRODUCT PRIMER. INSTALL PER MANUFACTURER INSTRUCTIONS.			●	

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	●				

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	●		

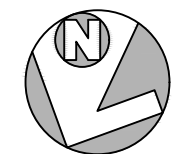
F-1	POLISHED CONCRETE - SEMI-GLOSS SHEET - 400 GRIT				●
F-2	SEAL-KRETE - CLEAR-SEAL CONCRETE & GARAGE FLOOR SEALER OR EQUAL - SATIN FINISH		●		
F-4	ARMSTRONG IMPERIAL TEXTURE - COOL WHITE - 12" X 12" VCT		●		
F-5	MILLIKEN MOARAIN EXPLORER CARPET TILE - EXR231-133-6 MEASURE W/ GOLD (19.7" X 39.4" X 0.310"). CARPET TILES TO BE RANDOMIZED PRIOR TO INSTALL AND LAID OUT IN 1/3 STAGGERED RUNNING BOND		●		

F-1	POLISHED CONCRETE - SEMI-GLOSS SHEET - 400 GRIT			●
F-2	SEAL-KRETE - CLEAR-SEAL CONCRETE & GARAGE FLOOR SEALER OR EQUAL - SATIN FINISH	●		
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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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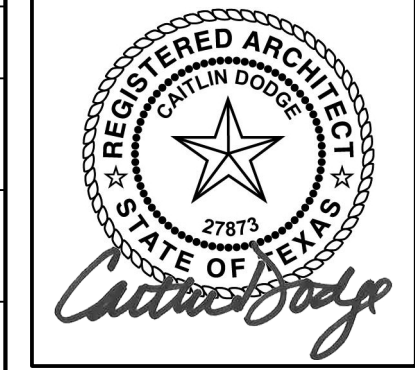
ACT-1	TILE: "SECOND LOOK" 24" DUNE TEGULAR EDGE 24" X 48" X 5/8"	●				
	TILE COLOR: WHITE GRID: 15/16" GRID COLOR: WHITE OR APPROVED EQUAL. USE HEAVY DUTY MAIN TEE & CONNECTORS					

4	FINISH SCHEDULE
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## SCHEDULES

DRAWN BY
SLS
CHECKED BY
AT / SL
JOB NUMBER
25341
SHEET NAME

SCALE  
N.T.S.



1	DOOR KEY PLAN	SCALE
		NTS



1. ALL WOOD FURRING AND BLOCKING SHALL BE FIRE-RETARDENT TREATED - TYPICAL.
2. 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.
3. 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.
4. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.
5. CONTRACTORS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR THE FOLLOWING:
- 5.1. COMPLIANCE WITH CONTRACT DOCUMENTS.
- 5.2. DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS.
- 5.3. COORDINATION OF THE VARIOUS TRADES.
- 5.4. SAFE CONDITIONS AT THE JOB SITE.
6. UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
7. 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**

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

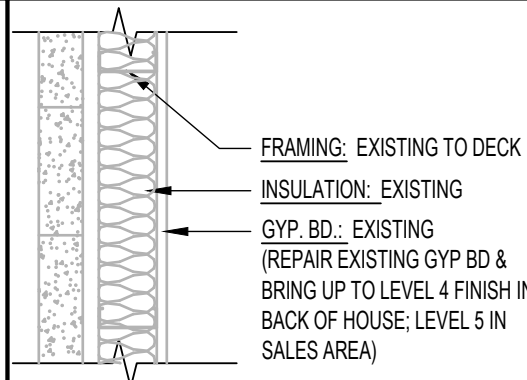
**C STUD SCHEDULE**

NOTE:  
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.

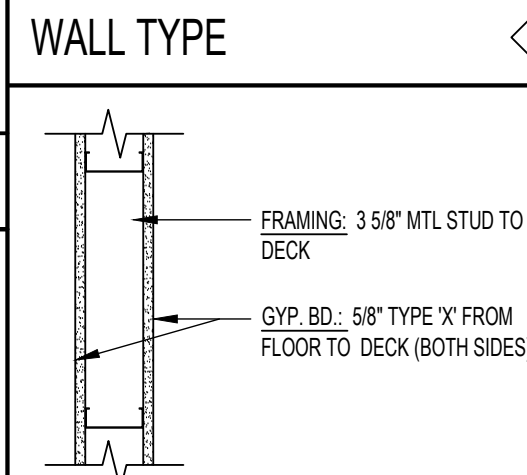
NOTE:  
G.C. TO CALL CARHARTT PM DURING FRAMING STAGE TO DISCUSS ANY FIELD DIMENSIONS DISCREPANCIES PRIOR TO FRAMING. ESPECIALLY OVERALL SALES FLOOR AND STOCKROOM DIMENSIONS. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE

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

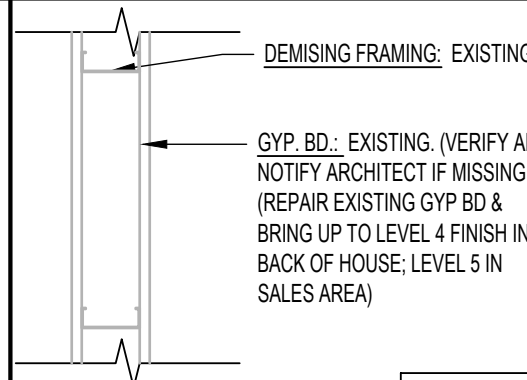
NOTE:  
ALL EXISTING WALLS IN SALES AREA TO BE BROUGHT UP TO LEVEL 5 FINISH.



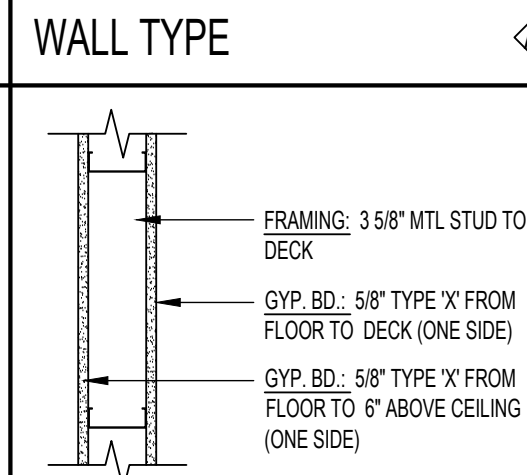
EXTERIOR PARTITION



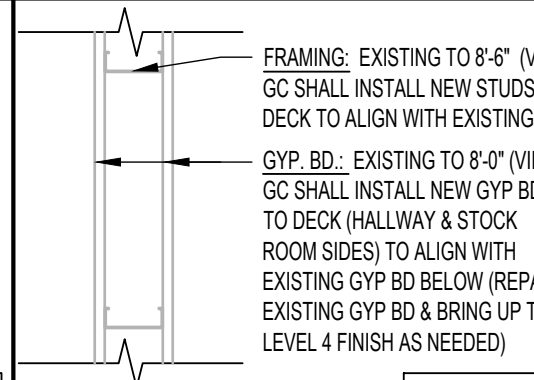
FULL HEIGHT PARTITION



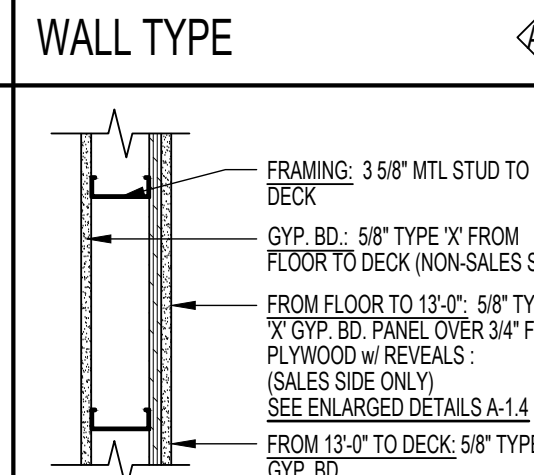
EXISTING DEMISING PARTITION



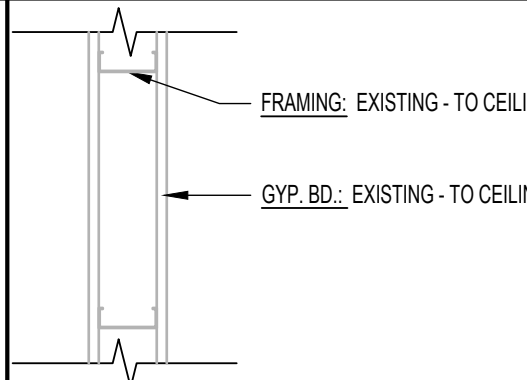
FULL HEIGHT PARTITION



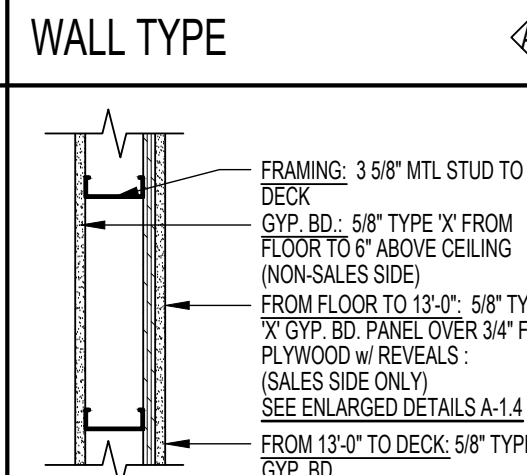
EXISTING INTERIOR PARTITION



FULL HEIGHT PARTITION - PANT WALL



EXISTING INTERIOR PARTITION



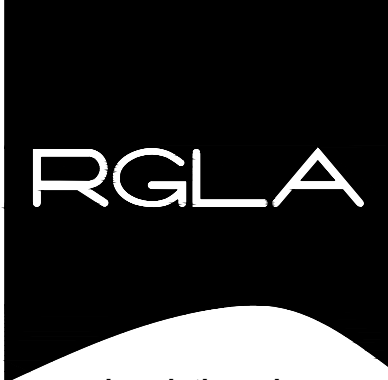
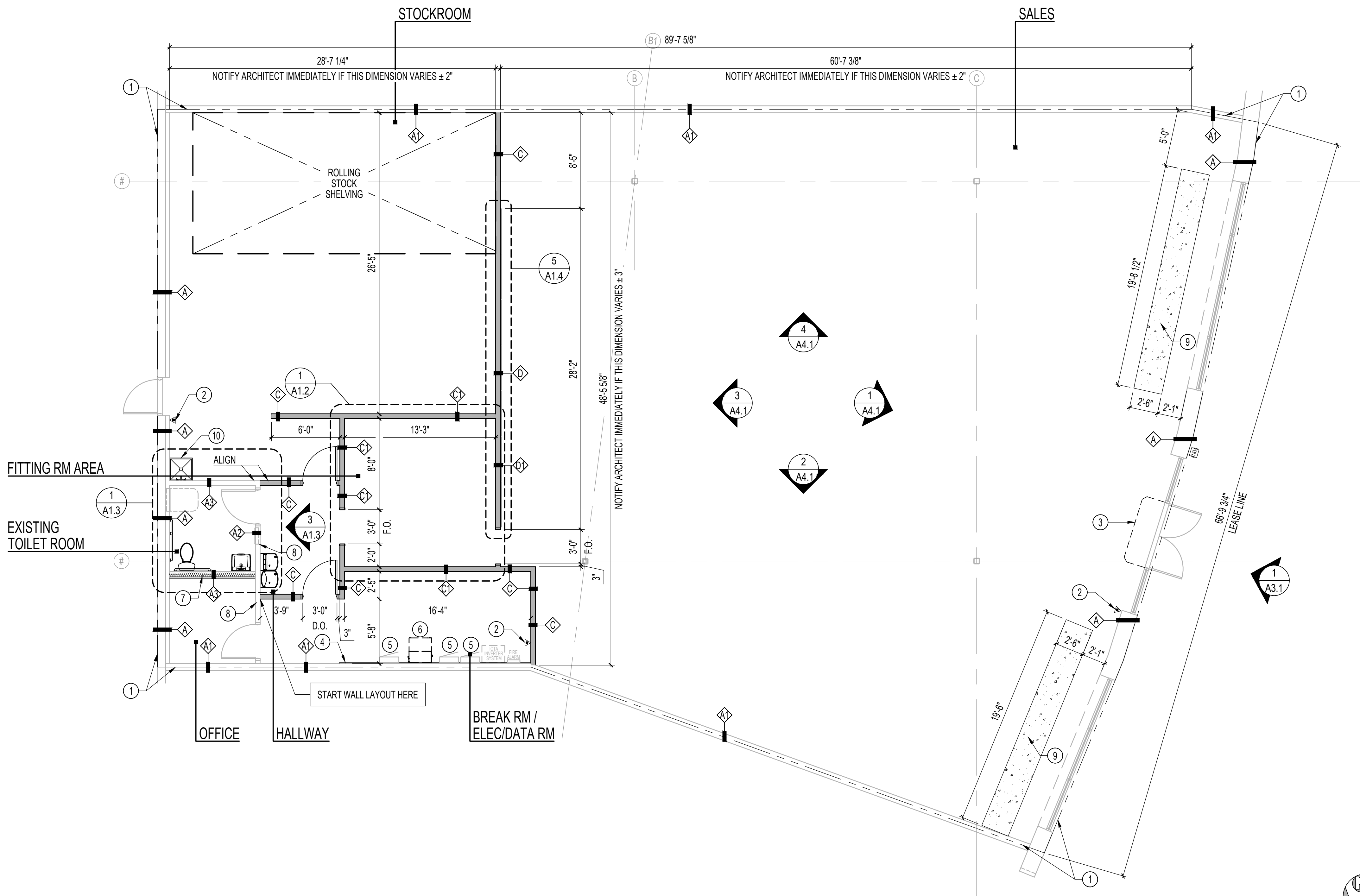
FULL HEIGHT PARTITION - PANT WALL

1. TENANT LEASE LINE
2. FIRE EXTINGUISHER - COORDINATE LOCATIONS WITH FIRE MARSHAL
3. SAWCUT GROOVE IN CONCRETE SLAB PER DETAIL 8/A1.4
4. EXISTING 3/4" CDX' F.T. PLYWOOD TO REMAIN
5. EXISTING ELECTRICAL PANELS - SEE ELECTRICAL SHEETS
6. LOCATION OF NEW DATA RACK.
7. G.C. SHALL ADD INSULATION TO EXISTING PARTITION AS SHOWN FOR SOUND ATTENUATION PURPOSES. WHERE EXISTING GYP. BD. HAS BEEN DAMAGED, G.C. SHALL REPLACE & REPAIR AS REQUIRED TO A LIKE-NEW APPEARANCE.
8. NOTIFY ARCHITECT IMMEDIATELY IF EXISTING STUDS DO NOT EXTEND TO DECK.
9. G.C. TO PROVIDE CONCRETE FOR BASE OF WINDOW FIXTURE. FORMWORK IS PROVIDED WITH FIXTURE. EACH BASE IS 30" W. X 6" H.
10. G.C. SHALL PROVIDE ACCESS TO WATER HEATER ON PLATFORM ABOVE MOP SINK.

**KEY NOTES**

ONE-HOUR RATED

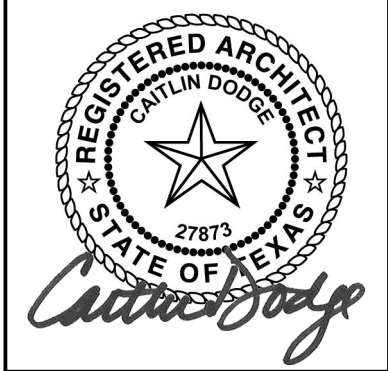
**RATED WALL KEY**



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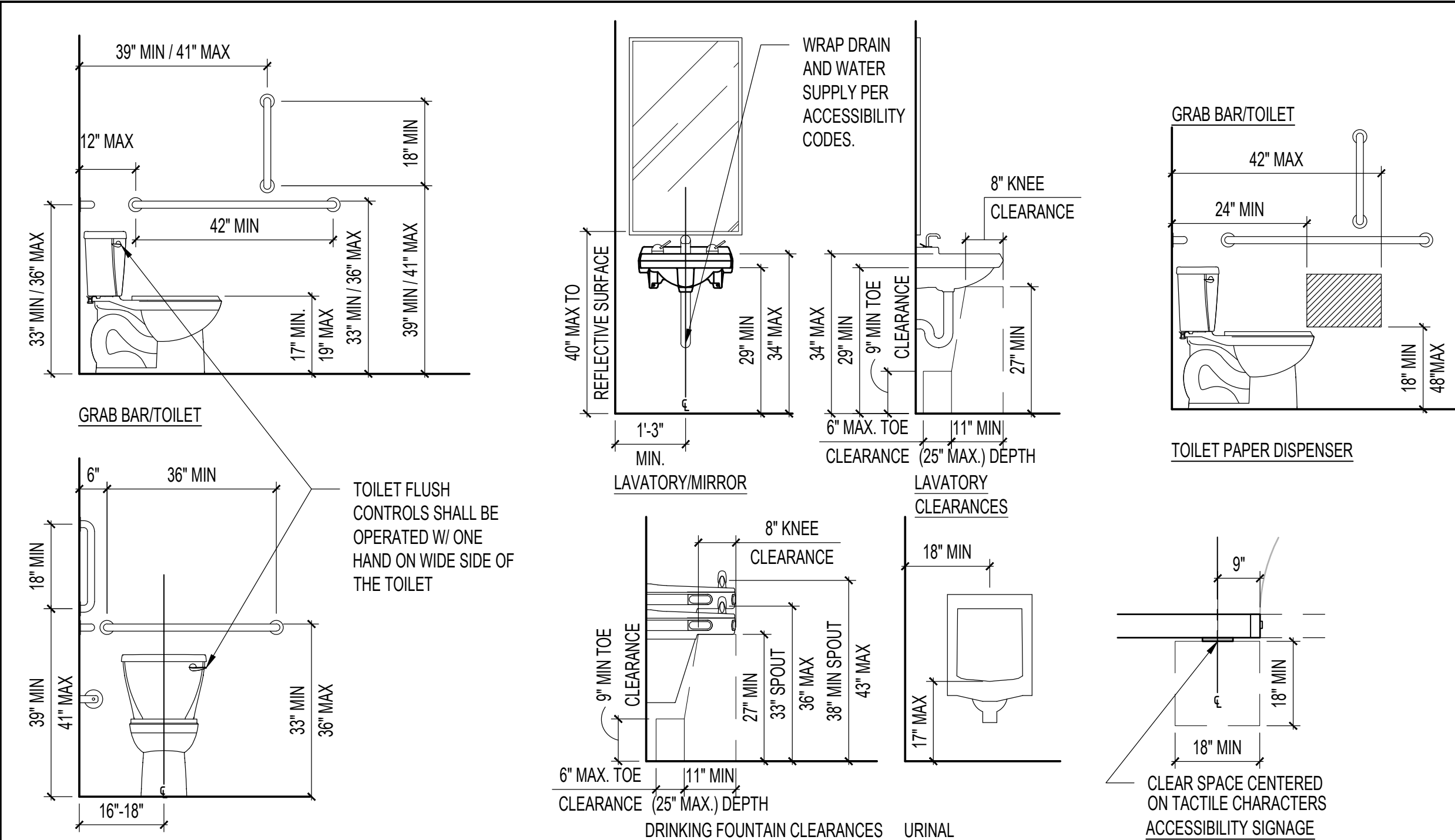
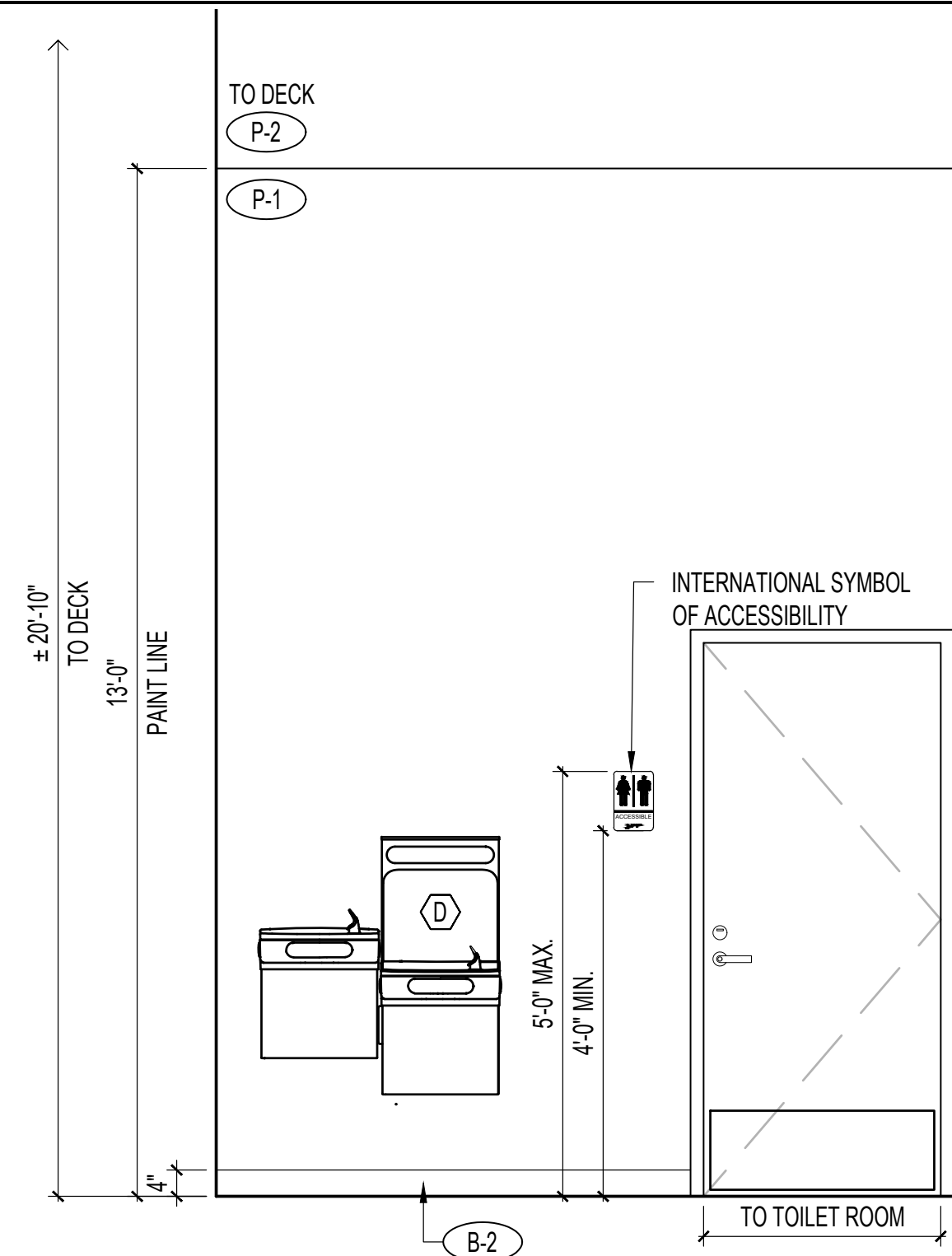
CONSTRUCTION PLAN,  
SCHEDULE & NOTES

DRAWN BY	SLS
CHECKED BY	AT / SL
JOB NUMBER	25341
SHEET NAME	A-1.1







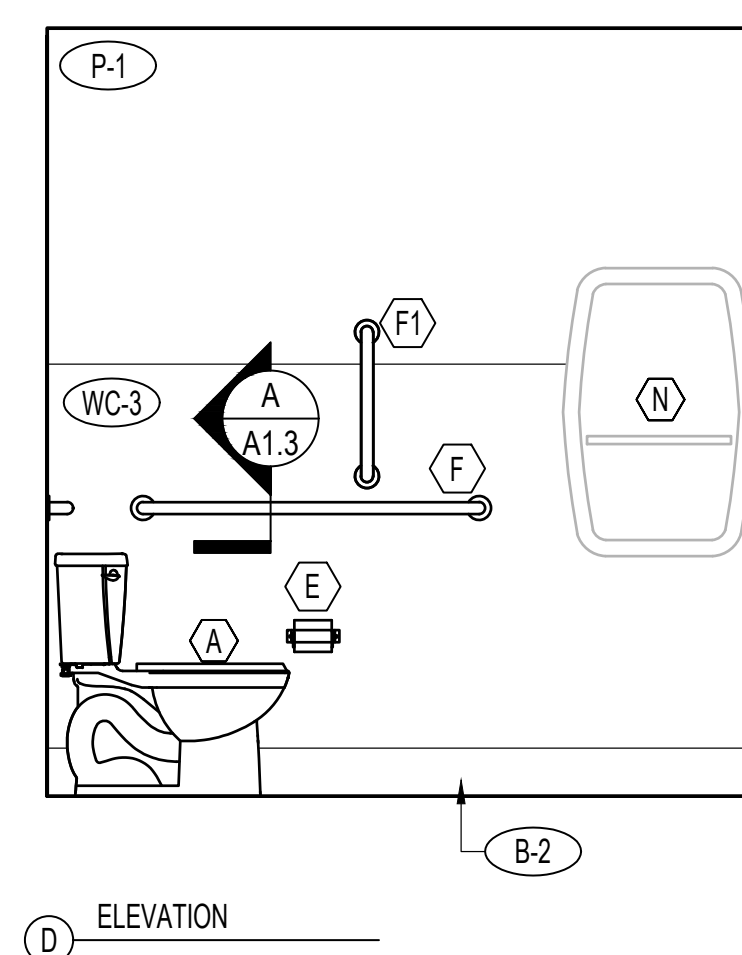
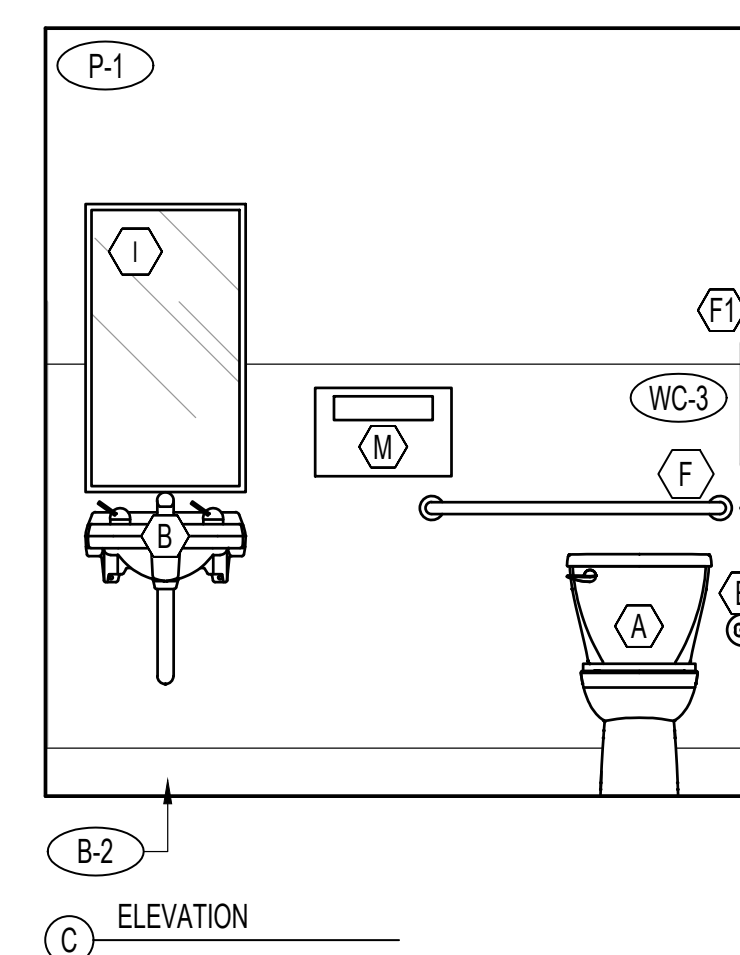
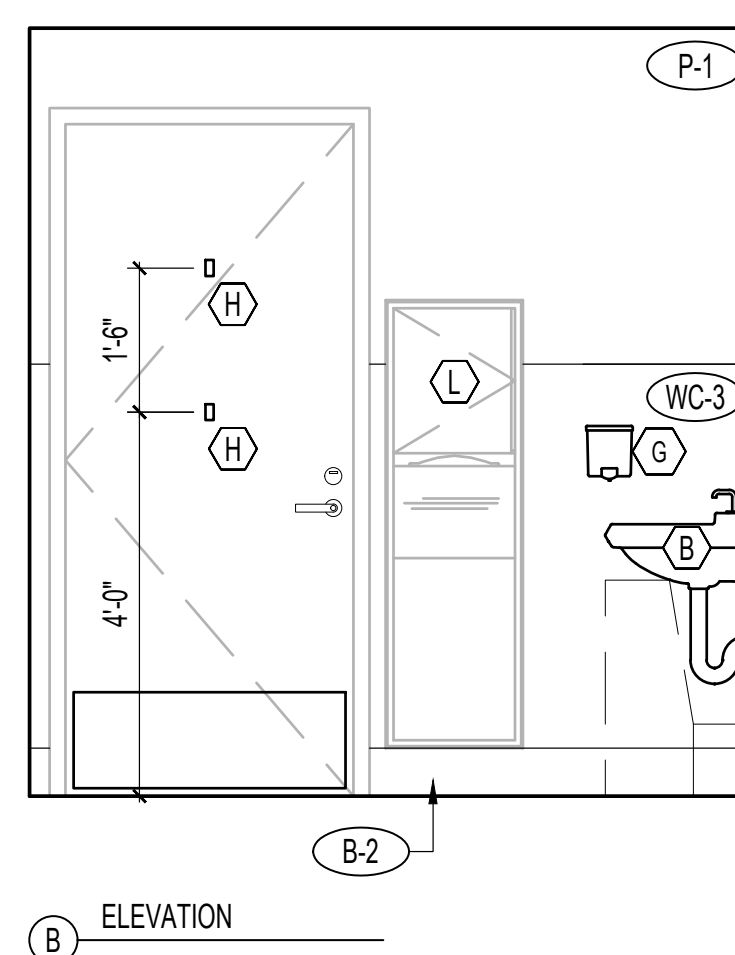
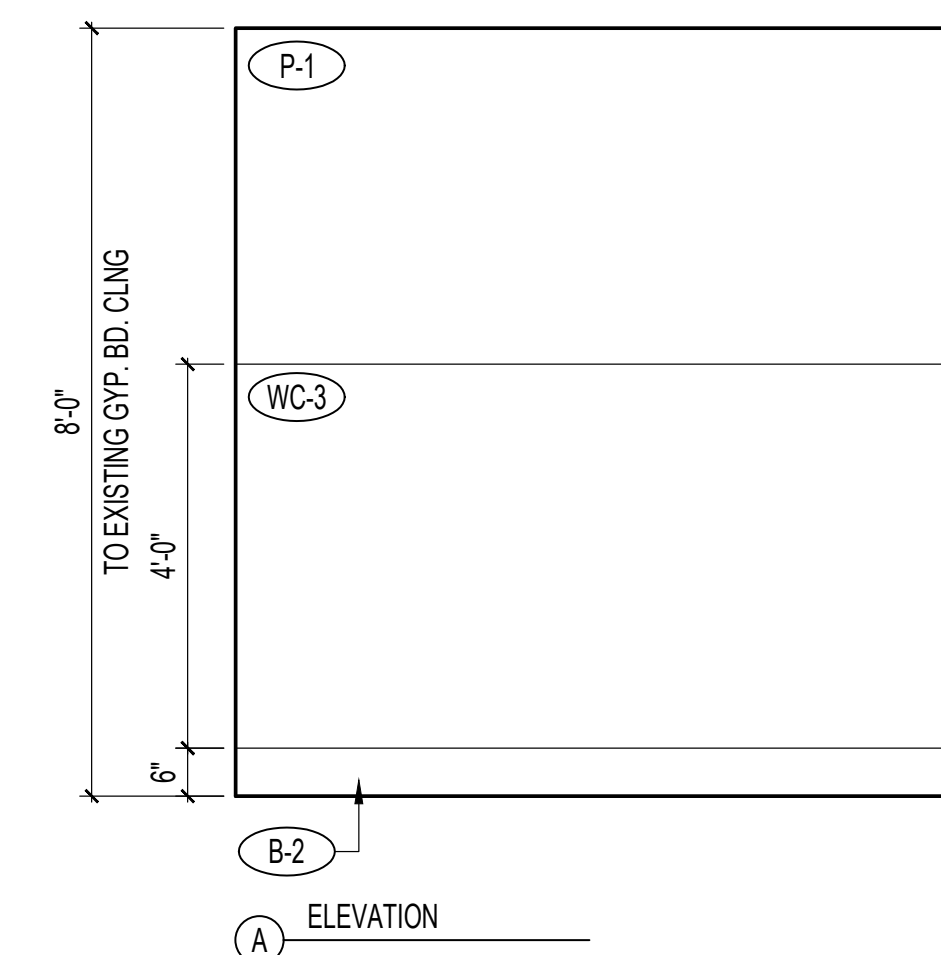


3	ELEVATION - HALLWAY
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SCALE  
1/2"=1'-0"

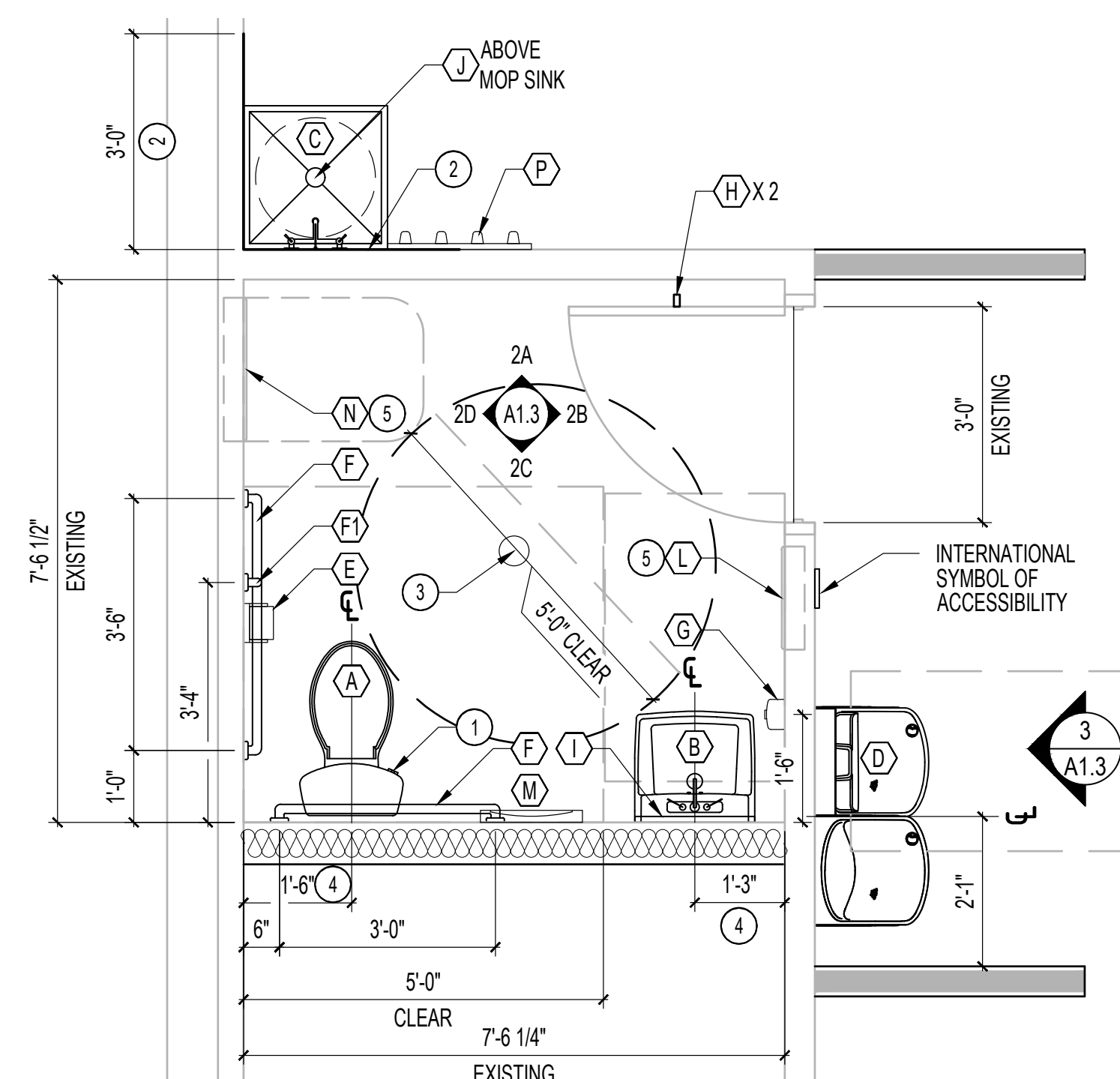
4	RESTROOM DETAILS
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SCALE  
1/2"=1'-0"



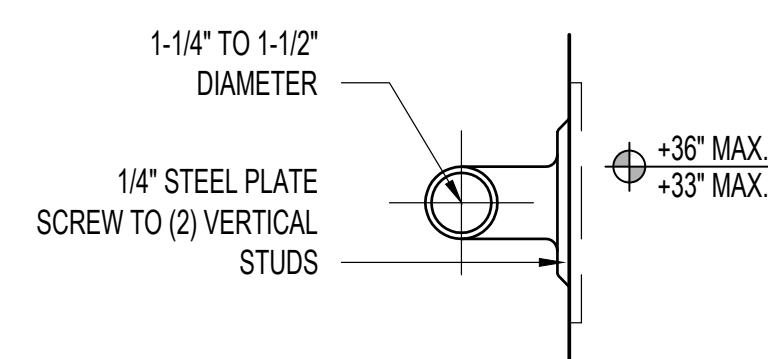
2	ELEVATIONS - TOILET ROOM
---	--------------------------

SCALE  
1/2"=1'-0'



**NOTE:**  
SEE DETAIL 5/A1.3 REGARDING  
LOCATIONS OF PLUMBING  
FIXTURES & ACCESSORIES  
GRAB BARS - NOTIFY  
ARCHITECT IMMEDIATELY IF  
ANY EXISTING TO REMAIN  
ITEMS DO NOT COMPLY.

	TOILET ROOM SPECIFICATION	EXISTING	PROVIDED BY GC INSTALLED BY GC	EXISTING TO BE RELOCATED BY GC	OWNER SUPPLIED
(A)	WATER CLOSET - SEE PLUMBING DRAWING		●		
(B)	LAVATORY - SEE PLUMBING DRAWING		●		
(C)	MOP SINK - SEE PLUMBING DRAWING		●		
(D)	DRINKING FOUNTAIN / BOTTLE FILLER SEE PLUMBING DRAWINGS		●		
(E)	TOILET PAPER HOLDER		●		
(F)	GRAB BARS - (1) 36"HORIZ, (1) 42"HORIZ		●		
(F1)	GRAB BARS - (1) 18" VERT		●		
(G)	TOUCHLESS SOAP DISPENSER				●
(H)	HOOKS - (2) HOOKS PER ROOM, DOOR MOUNTED - SUNMALL INDUSTRIAL PIPE COAT HOOKS - BLACK. AVAILABLE AT AMAZON.COM		●		
(I)	MIRROR OVER LAVATORY 20" X 36"		●		
(J)	WATER HEATER (ABOVE MOP SINK)		●		
(K)	CABINET				
(L)	SEMI-RECESSED TRASH RECEPTACLE / PAPER TOWEL DISPENSER	●			
(M)	TOILET SEAT COVER DISPENSER				●
(N)	STAINLESS STEEL BABY CHANGING STATION	●			
(P)	MOP / BROOM HOLDER - ULINE MODEL 3 H-2840				●



A	GRAB BAR SECTION	SCALE
		3"=1'-0"
1.	REQUIRED LOCATION OF FLUSH VALVE.	
2.	CONTINUOUS 4'-0" H. 'WC-3' PANEL TO BE INSTALLED AT MOP SINK WALLS	
3.	LOCATION OF EXISTING FLOOR DRAIN. REPAIR AS REQUIRED AFTER	
	REMOVAL OF EXISTING TILE. NEW CAP SHALL BE FLUSH WITH FLOOR.	
4.	LOCATION OF EXISTING PLUMBING TO BE REUSED FOR NEW FIXTURES	
5.	EXISTING ACCESSORIES TO REMAIN SHALL BE INSPECTED, CLEANED AND	
	SANITIZED TO 'LIKE-NEW' APPEARANCE.	

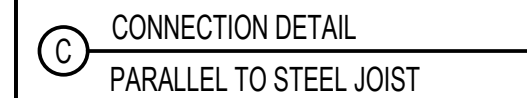
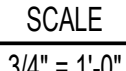
1	ENLARGED TOILET ROOM PLAN
---	---------------------------

SCALE  
1/2"=1'-0"

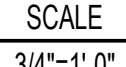
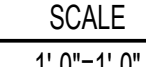
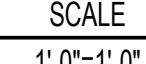
## KEY NOTES

#





A-1.4



### 3 PARTITION DETAIL - SLOTTED TRACK



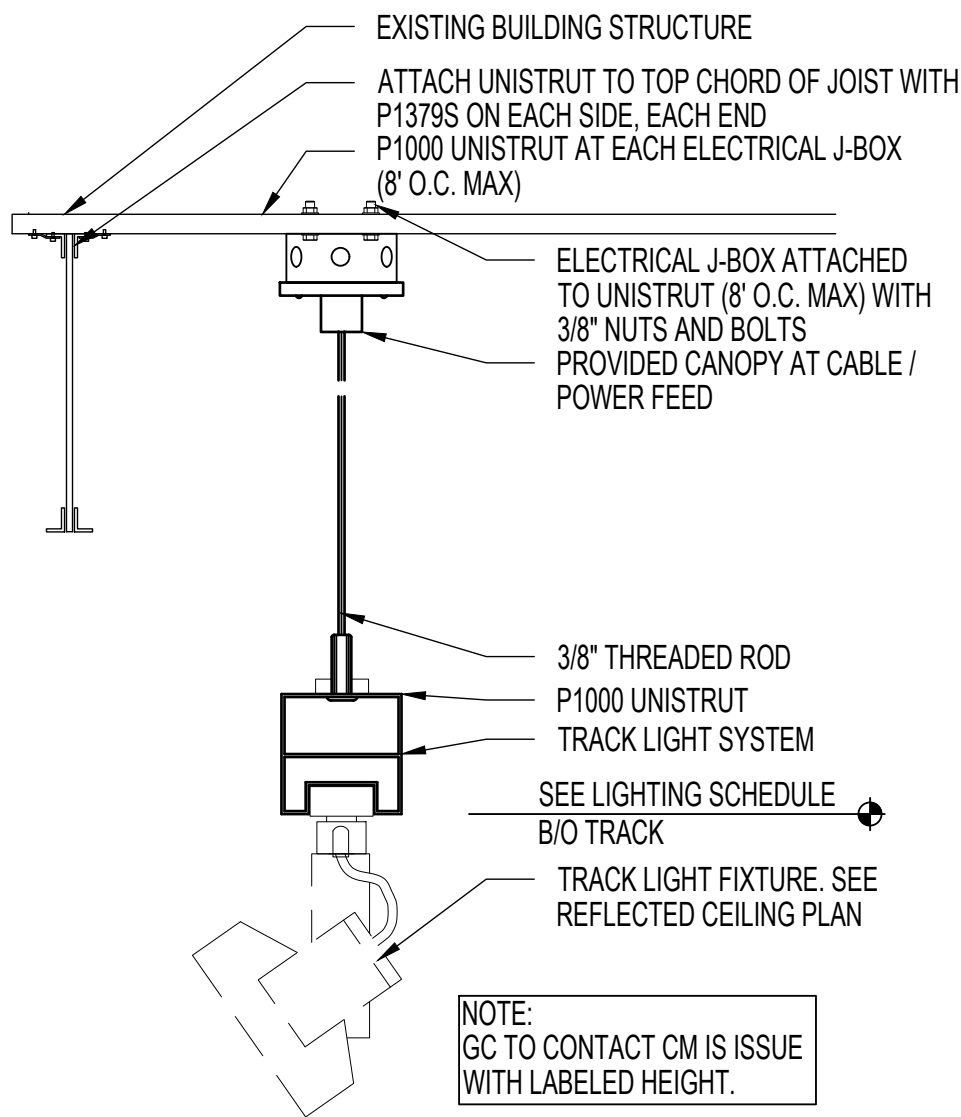
ELEVATION





<div>1. CENTER THIS TRACK LIGHTING ON THIS WALL, STRUCTURAL FRAME, OR WINDOW PANE</div> <div>2. CENTER THIS LIGHT IN THE ROOM / SPACE.</div> <div>3. EXISTING AIR CURTAIN(S) TO REMAIN. SEE MECHANICAL DRAWINGS.</div> <div>4. GRAPHIC TRACK - SEE DETAIL 3/A2.1</div> <div>5. OPEN TO STRUCTURE ABOVE 13'-0" A.F.F. ALL EXISTING TRUSSES, JOISTS, BEAMS, DUCTS, CONDUITS, EQUIPMENT, STRUCTURE, ETC. TO REMAIN UNPAINTED (TYP. THROUGHOUT UNLESS NOTED OTHERWISE)</div> <div>6. SURFACE MOUNT TRACK LIGHTING 6" FROM GLASS.</div> <div>7. G.C. SHALL INSTALL PROVIDE ACCESS TO WATER HEATER ON PLATFORM ABOVE EXISTING TOILET ROOM.</div> <div>8. G.C. TO INSTALL 6" X 18 GA METAL STUDS @ 16" O.C. ON EXISTING STUD PARTITION IN PREPARATION FOR NEW GYP. BD. IF STUDS ARE EXISTING, PROVIDE CREDIT.</div> <div>9. PAINT NEW DIFFUSERS &amp; NEW RETURN DUCT DROP IN SALES TO MATCH EXISTING.</div>		<div>• ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL O.S. - OCCUPANCY SENSOR SWITCHES AT FITTING ROOMS AND TOILET ROOMS. SEE ELECTRICAL PLANS FOR MORE INFORMATION</div> <div>• ELECTRICAL CONTRACTOR TO VERIFY LIGHTING IS IN WORKING CONDITION WHEN JOB IS COMPLETE</div> <div>• 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.</div> <div>• BOTTOM OF SUSPENDED EMERGENCY LIGHTING TO BE MOUNTED AT SAME HEIGHT AS TRACK LIGHTING</div> <div>• SUPPLY AND RETURN HVAC DIFFUSERS SHOWN FOR REFERENCE / LOCATION ONLY REFER TO MECHANICAL PLANS.</div>		
-	KEY NOTES	#	B	GENERAL NOTES

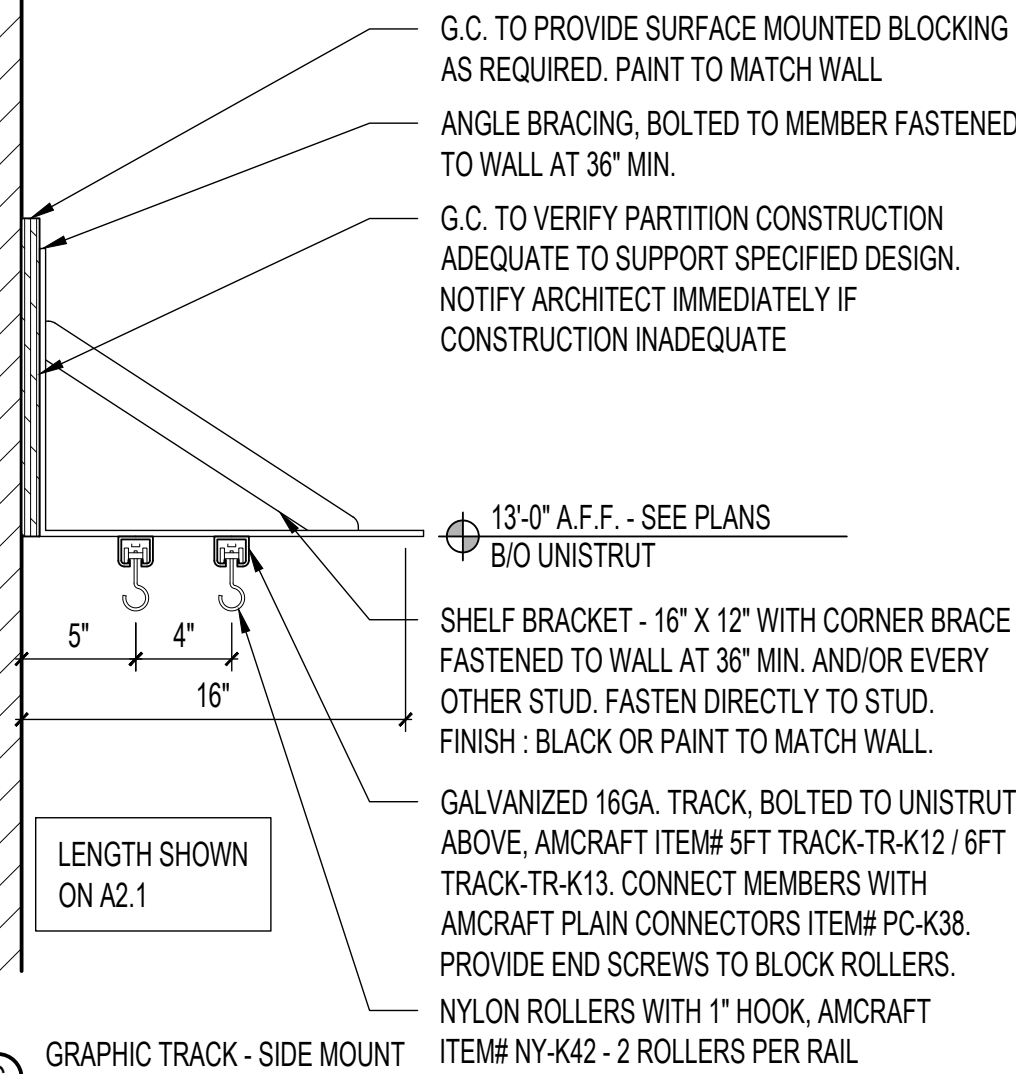
NOTE: NOTIFY OWNER/PROJECT MANAGER IMMEDIATELY IF LIGHT FIXTURES AND CEILING HEIGHTS ARE NOT ACHIEVABLE



NOTE: GC TO CONTACT CM IS ISSUE WITH LABELED HEIGHT.

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

NOTE: G.C. TO FURNISH AND INSTALL ALL COMPONENTS SHOWN ON THIS DETAIL.



GRAPHIC TRACK - SIDE MOUNT

3	GRAPHIC TRACK DETAIL	SCALE
		1 1/2\"=1'-0"

TAG	SYMBOL	DESCRIPTION	HEIGHT
A		HIGH BAY LIGHTING	BOTTOM @ 13'-0" A.F.F.
B		TRACK HEAD - LED SPOT	TRACK MOUNTED
C		TRACK HEAD - WALL WASHER	TRACK MOUNTED
E4		4FT LINEAR LED	12'-0" A.F.F.
E4E		4 FT LINEAR LED W/ EMERGENCY	12'-0" A.F.F.
M		PENDANT LIGHT (FITTING ROOM)	BOTTOM AT 9'-0" A.F.F.
T		1 CIRCUIT TRACK (LENGTH PER PLAN).	13'-0" A.F.F. (UNO)
TW		EXTERIOR EMERGENCY LIGHT	6" - 12" ABOVE OPENING
EM		EMERGENCY LIGHT WITH BATTERY BACK UP	12'-0" (UNO)
X		EXIT SIGN	10'-0" (UNO)
XEM		EMERGENCY LED LAMPS EXIST LIGHTING COMBO LIGHTING	12'-0" (UNO)

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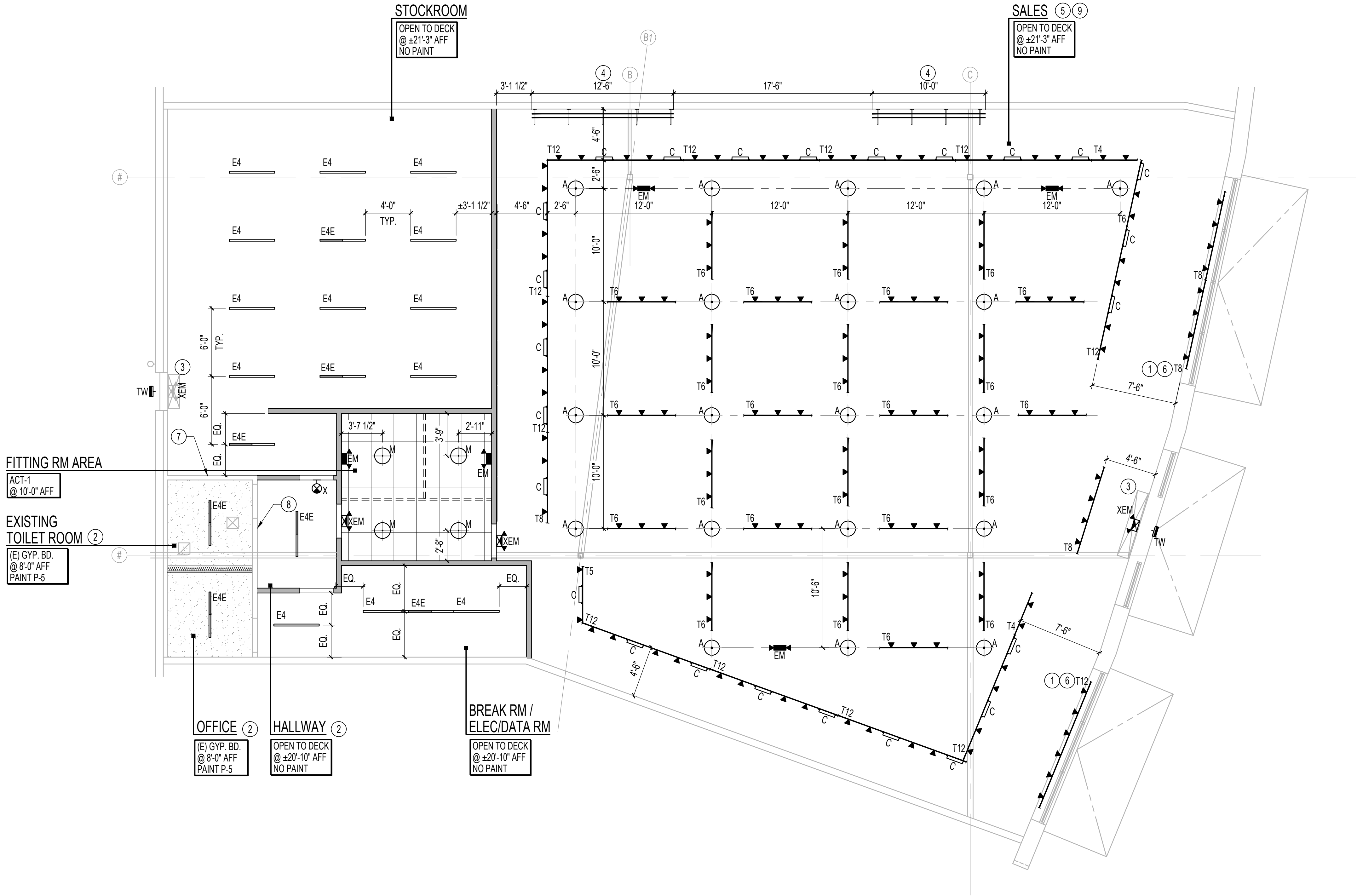
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REFLECTED CEILING  
PLAN

DRAWN BY	SLS
CHECKED BY	AT / SL
JOB NUMBER	25341
SHEET NAME	

A-2.1



1 REFLECTED CEILING PLAN



SCALE  
3/16\"=1'-0"

2 LIGHT FIXTURE SCHEDULE



STOREFRONT WORK:

THE STORE FACADE, GLAZING, BASE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

NEW EXTERIOR WORK IS LIMITED TO THE FOLLOWING

- STOREFRONT SIGNAGE
- AWNING COVERS OVER EXISTING FRAMES

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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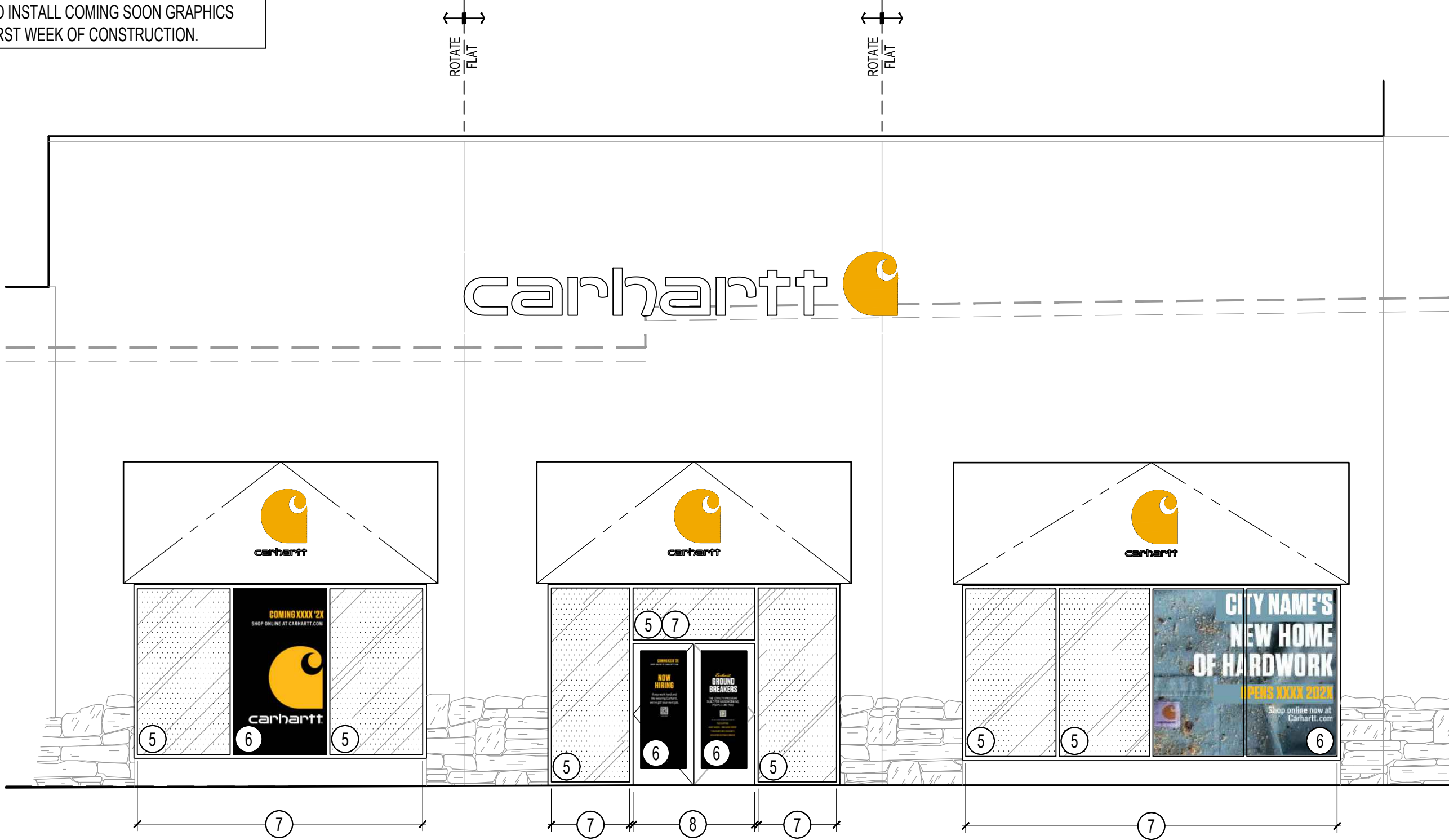
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EXTERIOR ELEVATION

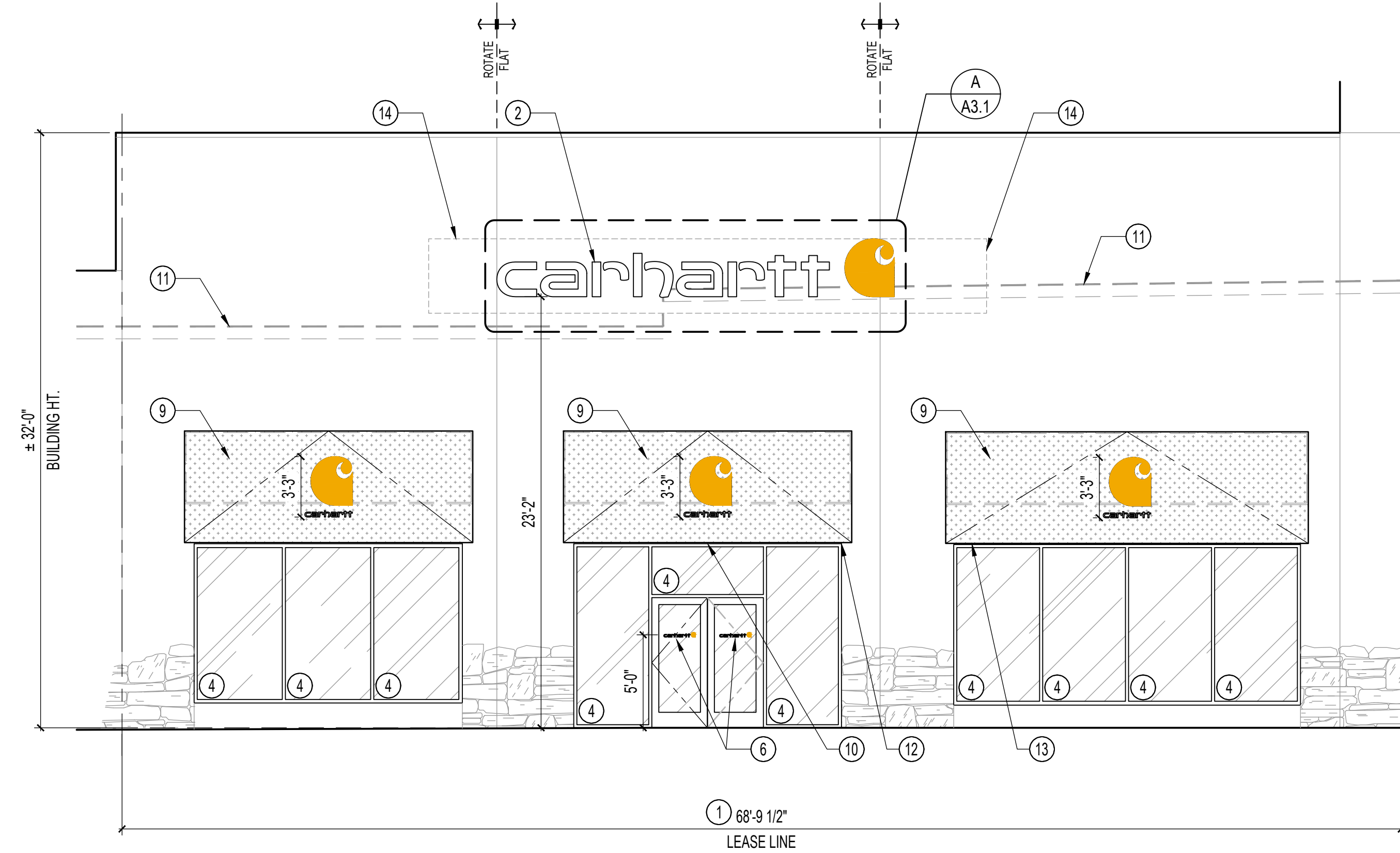
DRAWN BY	SLS
CHECKED BY	AT / SL
JOB NUMBER	25341
SHEET NAME	A-3.1

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



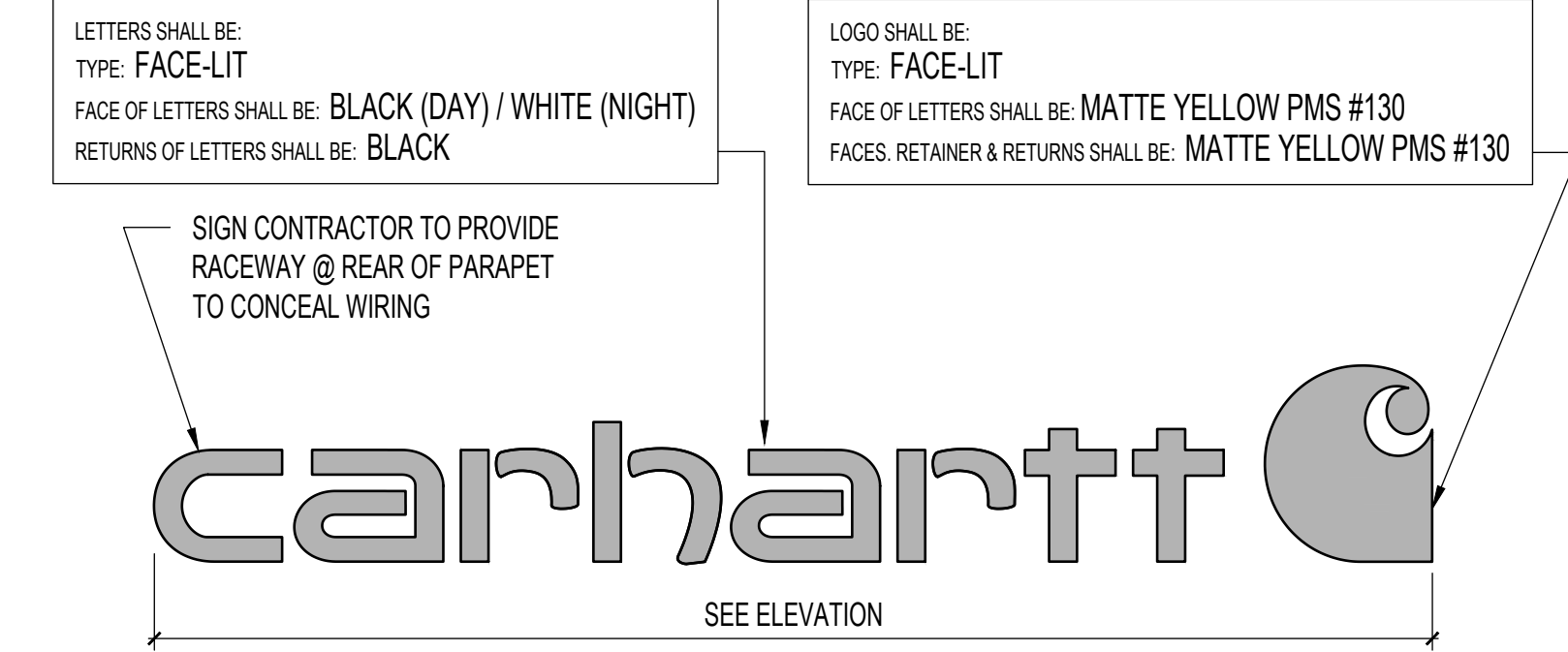
3 STOREFRONT ELEVATION - COMING SOON GRAPHICS

SCALE  
3/16"=1'-0"



1 STOREFRONT ELEVATION

SCALE  
3/16"=1'-0"



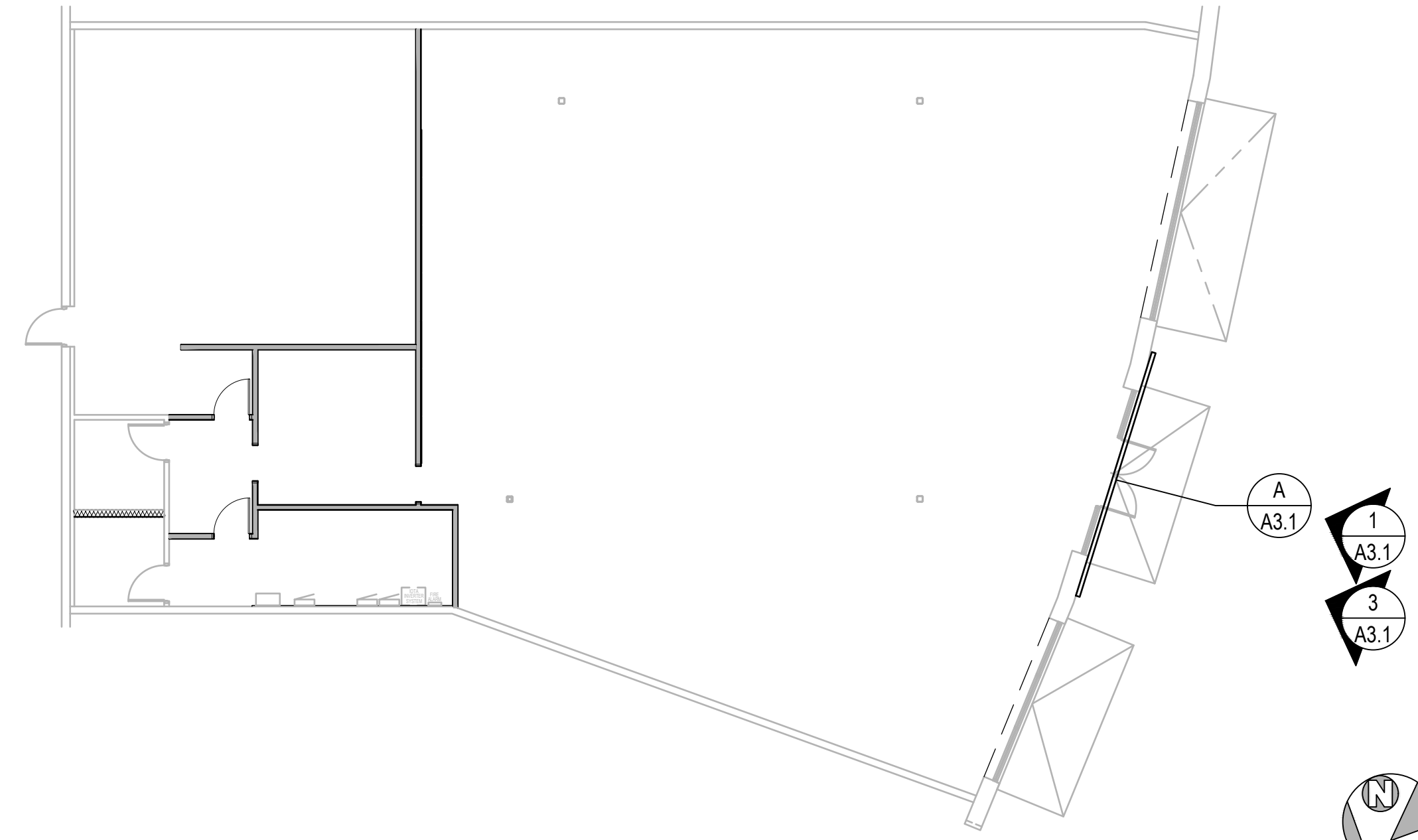
A SIGNAGE DETAILS

SCALE  
1"=1'-0"

1. EXISTING FACADE TO REMAIN. PATCH/REPAIR FACADE AS REQUIRED TO A LIKE-NEW APPEARANCE.
2. COORDINATE WITH SIGN CONTRACTOR DRAWINGS.
3. GC TO INSTALL OWNER SUPPLIED GRAPHIC.
4. EXISTING STOREFRONT GLAZING SYSTEM TO REMAIN. GC SHALL CLEAN, INSPECT & NOTIFY ARCHITECT IMMEDIATELY OF ANY NECESSARY REPAIRS. DAMAGED GASKETS TO BE REPLACED.
5. GC TO PROVIDE & INSTALL BLACK PAPER ON STOREFRONT GLAZING AS SHOWN
6. OWNER SUPPLIED / OWNER INSTALLED VINYL GRAPHICS AS SHOWN.
7. OWNER SHALL REMOVE VINYL AND PAPER WHERE INDICATED AT END OF CONSTRUCTION.
8. OWNER WILL REMOVE VINYL IN THIS AREA AT OPENING.
9. EXISTING AWNINGS. GC SHALL REMOVE EXISTING FABRIC & INSTALL NEW OVER EXISTING FRAME. SUNBRELLA BLACK WITH GOLD CARHARTT ICON (PMS 130)
10. EXISTING EXTERIOR LIGHT FIXTURE(S) TO BE REPLACED. SEE LIGHT FIXTURE SCHEDULE.
11. APPROXIMATE LINE OF ROOF BEHIND PARAPET.
12. EXISTING KNOX BOX
13. EXISTING LANDLORD SPEAKER TO REMAIN.
14. WHERE FORMER TENANT'S SIGNAGE IS REMOVED, G.C. SHALL PATCH / REPAIR & PAINT ALL HOLES / DAMAGE. PAINT COLOR AND SHEEN SHALL MATCH EXISTING ADJACENT SURFACE AND APPEAR SEAMLESS.

- KEY NOTES

#



2 SIGN KEY PLAN

SCALE  
3/32"=1'-0"

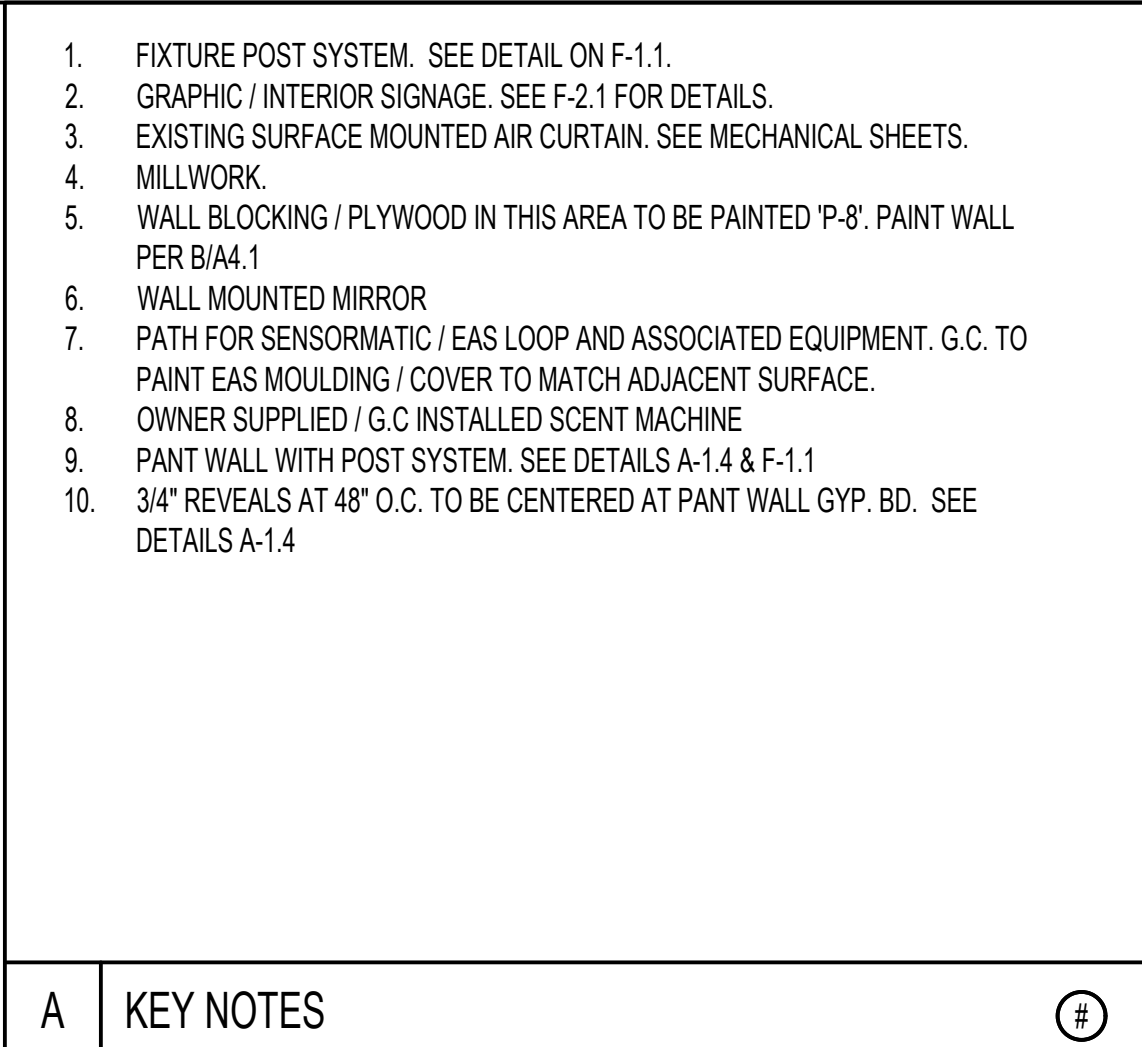




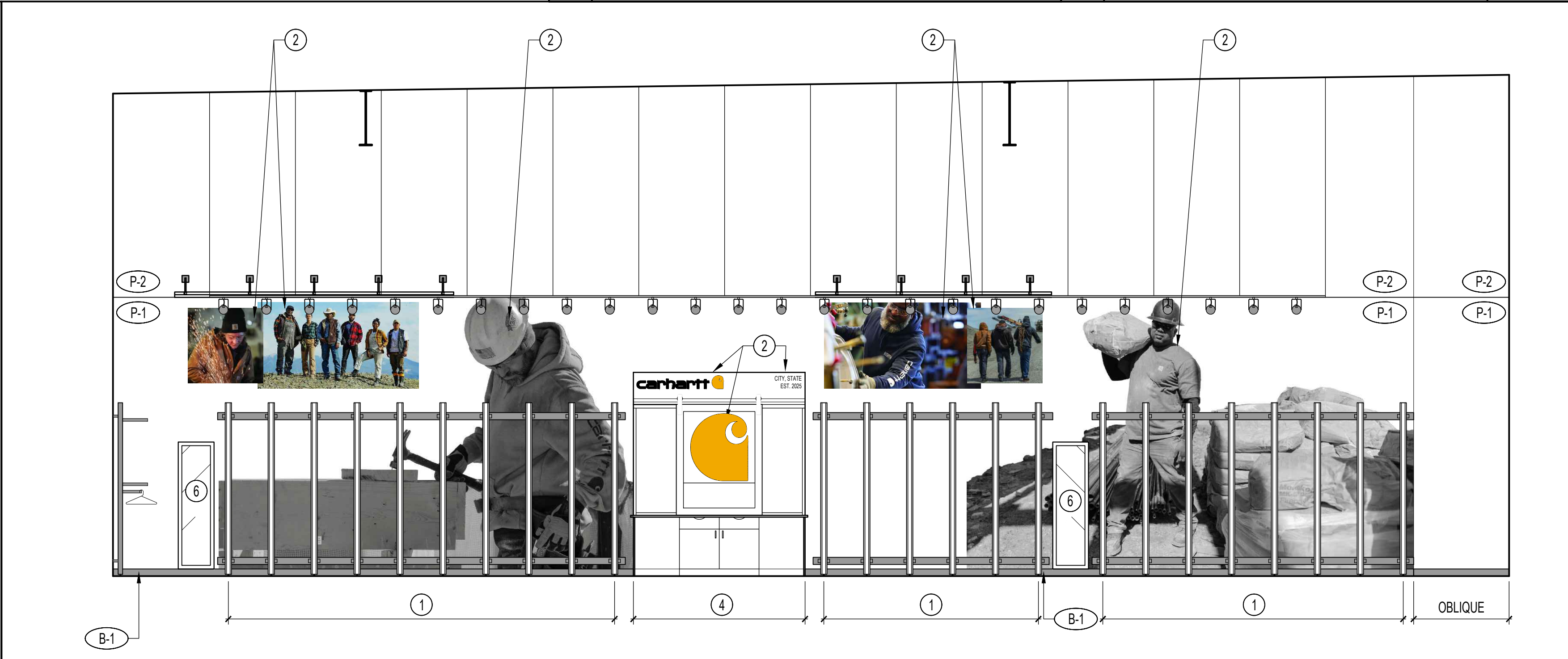
3 ELEVATIONS - SALES

SCALE  
1/4"=1'-0"

- A KEY NOTES
1. FIXTURE POST SYSTEM. SEE DETAIL ON F-1.1.
  2. GRAPHIC / INTERIOR SIGNAGE. SEE F-2.1 FOR DETAILS.
  3. EXISTING SURFACE MOUNTED 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

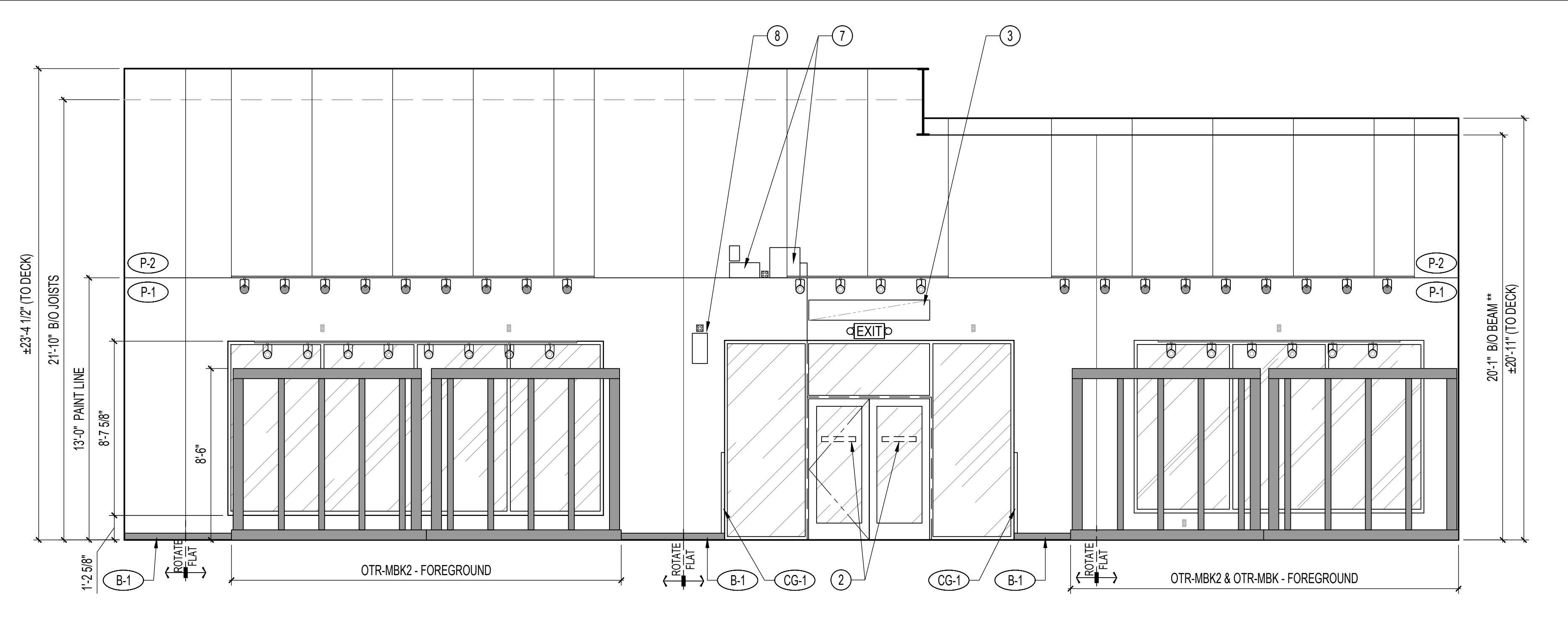


SCALE  
1/2"=1'-0"



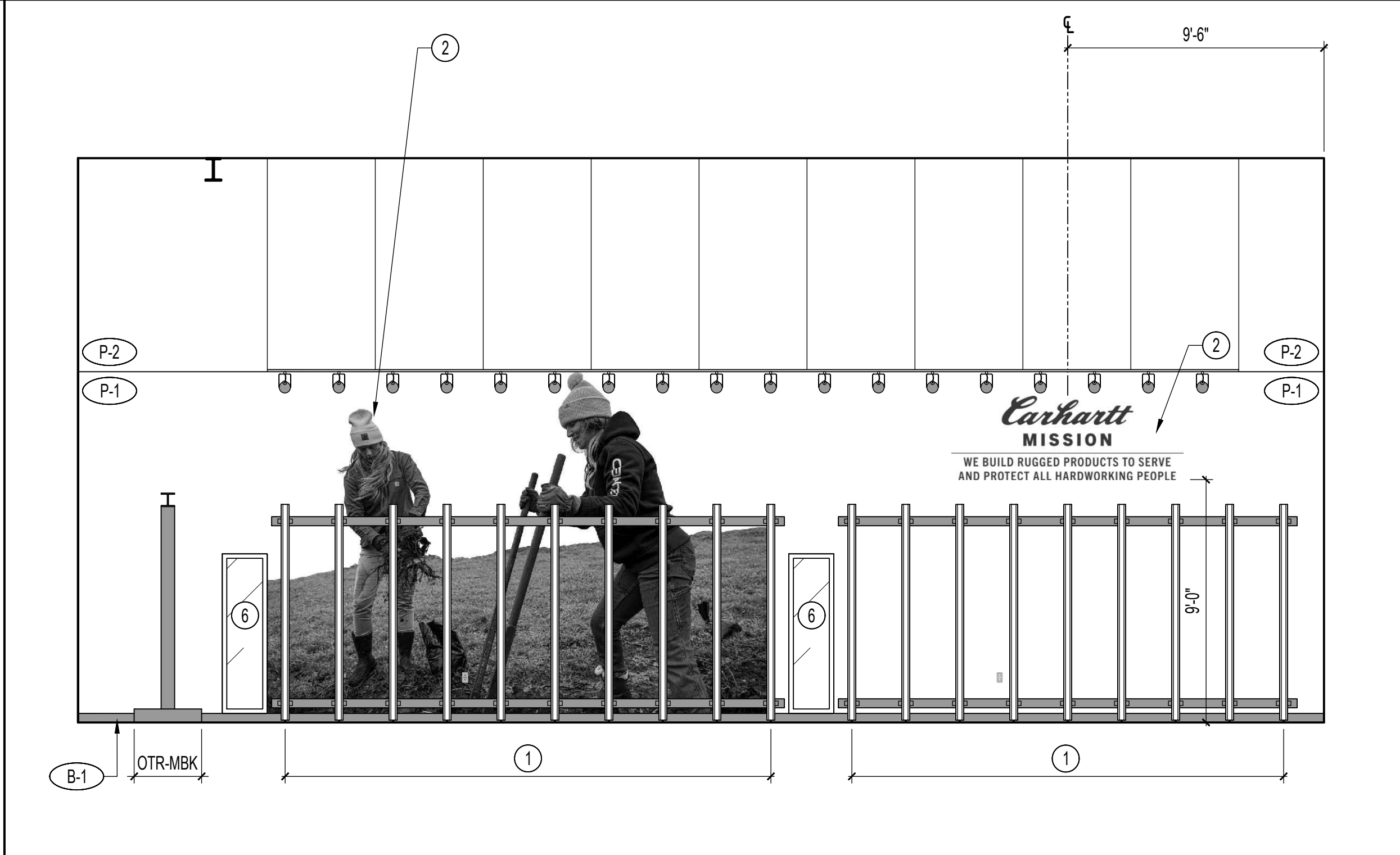
4 ELEVATIONS - SALES

SCALE  
1/4"=1'-0"



1 ELEVATIONS - SALES

SCALE  
1/4"=1'-0"



2 ELEVATIONS - SALES

SCALE  
1/4"=1'-0"

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INTERIOR ELEVATIONS

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A-4.1



- EXISTING STEEL COLUMNS. PAINT P-8 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
- INSTALL NEW FRP 'WC-3' ON MOP SINK WALLS - 2 SIDES - FLOOR TO 48" AFF
- EXISTING PLYWOOD TO REMAIN FLOOR TO 12'-0". PAINT TO MATCH ADJACENT WALL
- 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.
- EXISTING AWNING FRAMES TO REMAIN WITH NEW FABRIC & LOGO. SEE A-3.1.
- WINDOW SILL FINISH @ ±14 1/2" AFF
- CLEAN EXISTING CONCRETE FLOORING TO LIKE-NEW CONDITION.
- POLISH AREAS OF NEW FLOOR TRENCH AND REMOVE WALLS TO MATCH EXISTING ADJACENT.

KEY NOTES

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FINISH  
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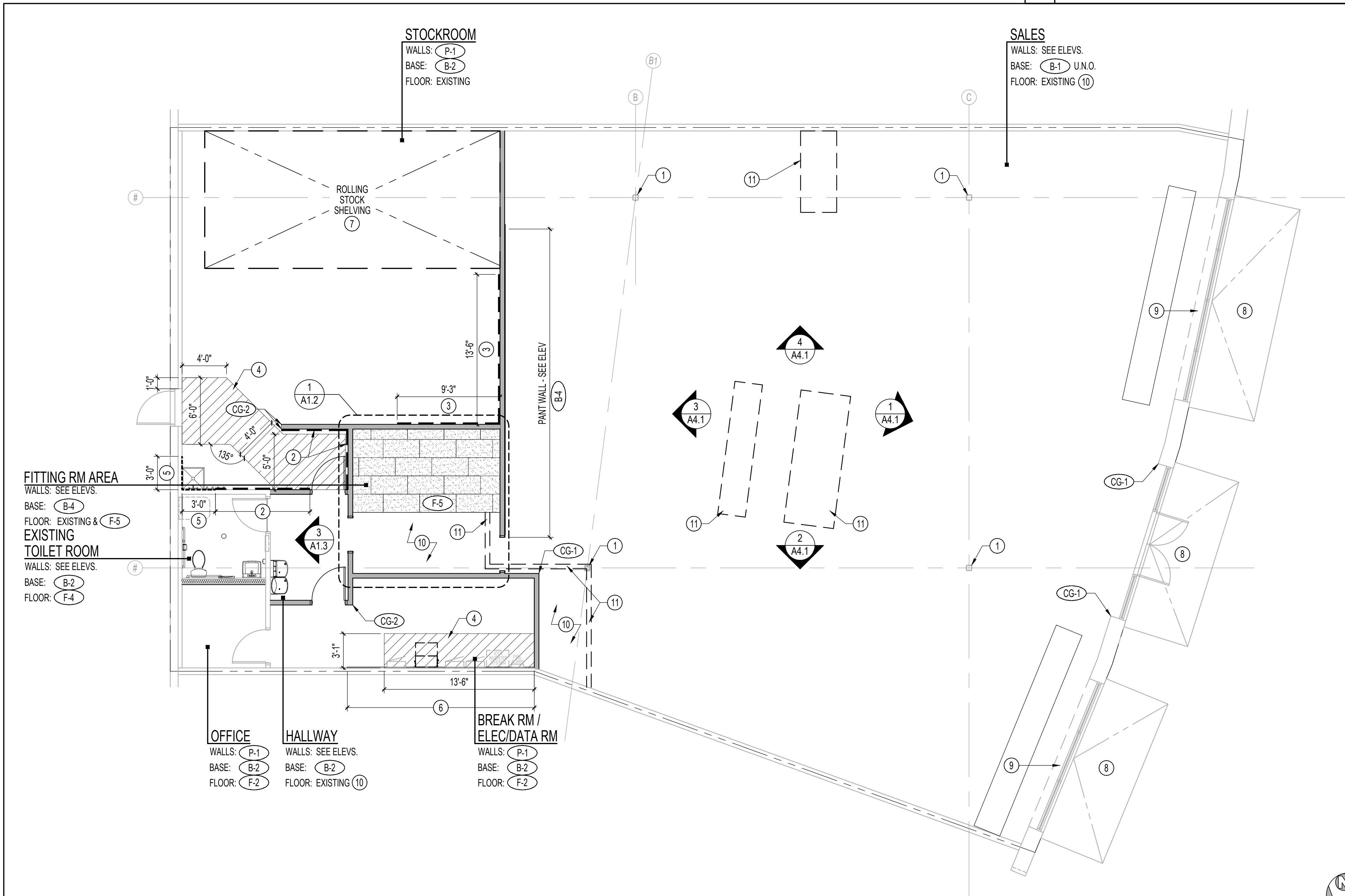
25341

SHEET NAME

A-5.1



SCALE  
3/16" = 1'-0"






1 CONSTRUCTION PLAN / FINISH PLAN



1. (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 IN 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.
2. (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.
3. 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.
4. 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 ENDE. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM. LABEL BOTH ENDS OF THE CABLE.
5. 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.
6. (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.
7. 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.
8. GC TO ROUTE TWO (2) CAT6 CABLES IN EXISTING LANDLORD CONDUIT FROM BUILDING TELCO ROOM / MDF TO TENENT'S DATA RACK AREA / IDF. ASSUME 300' FOR PRICING.

- KEY NOTES - LOW VOLTAGE #

SYMBOL	DESCRIPTION
	DATA OUTLET
	CEILING MOUNTED DATA OUTLET
	FLOOR MOUNTED DATA OUTLET


-	SYMBOL LEGEND
---	---------------



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LOW VOLTAGE PLAN

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A-6.1

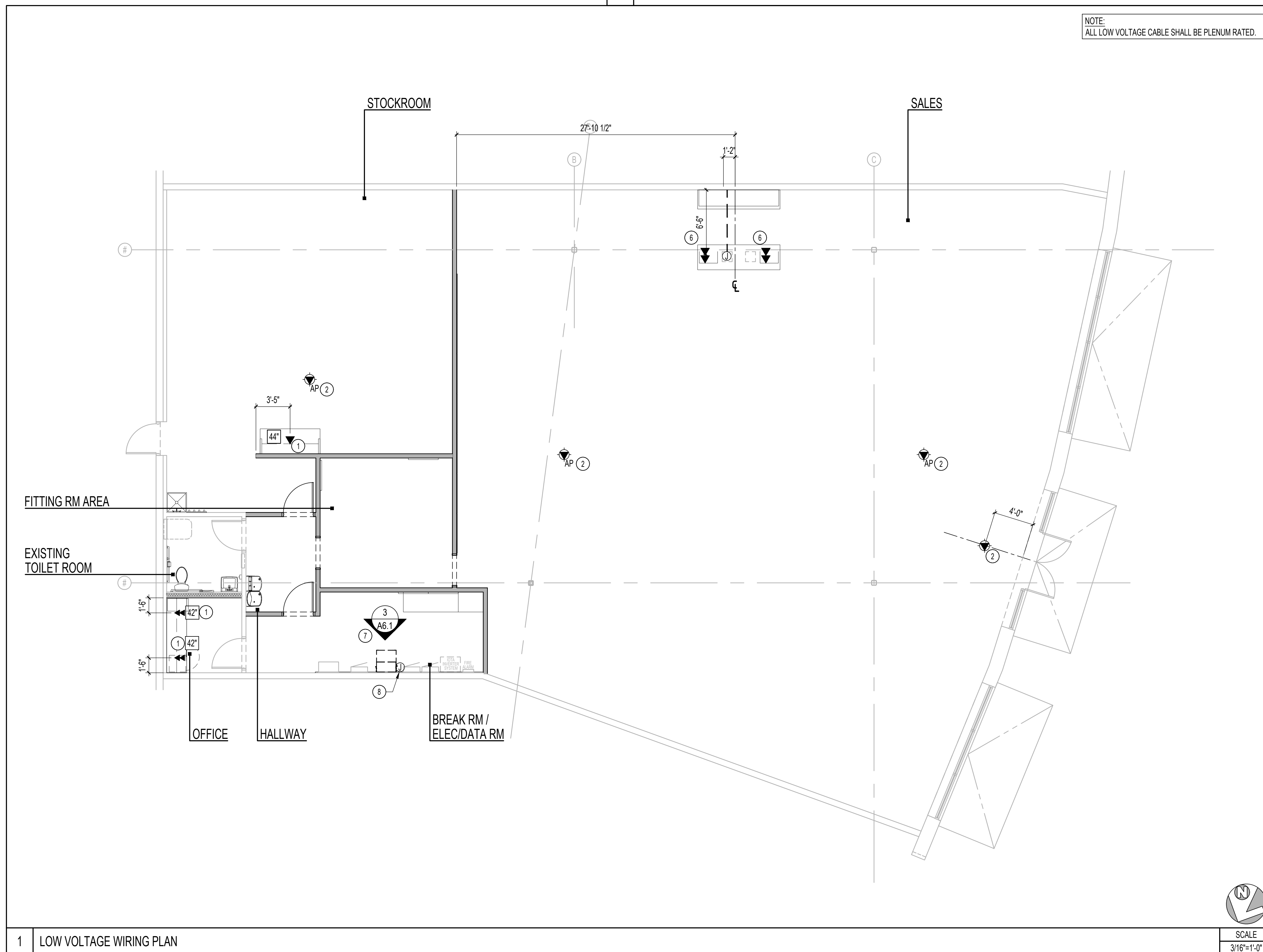


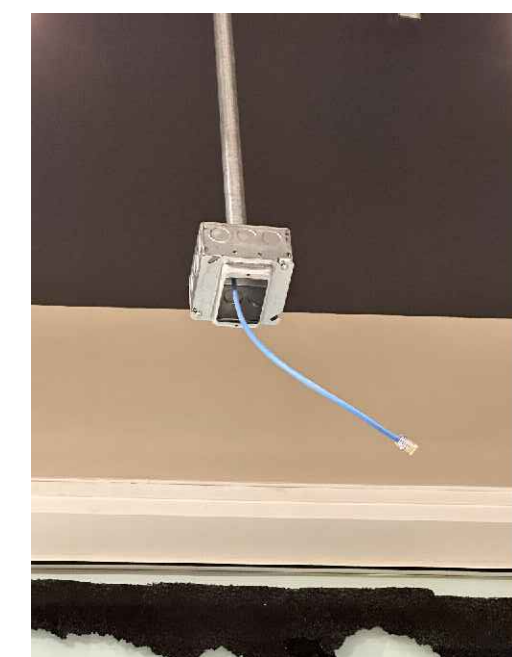
Diagram illustrating the proposed equipment layout for the control room, showing dimensions and component specifications:

- CCTV RACK** (FURNISHED & INSTALLED BY VENDOR)
- 4'X8' PLYWOOD** (FURNISHED & INSTALLED BY GC)
- CARHARTT RACK** (FURNISHED BY OWNER, INSTALLED BY GC)
- SHELF FOR AUDIO SYSTEM** (FURNISHED & INSTALLED BY VENDOR)

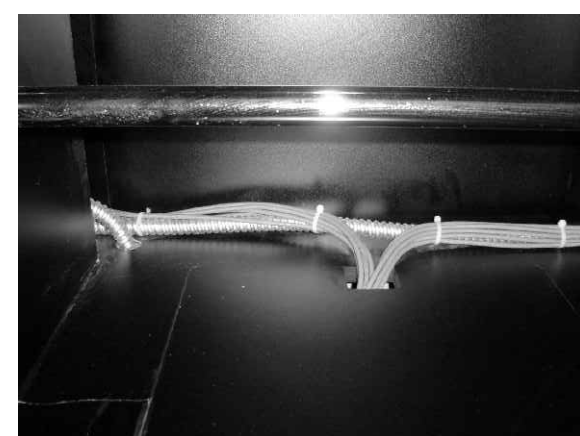
Dimensions indicated:

- Overall height: 8'-0"
- Height of top section: 4'-0"
- Height of middle section: 4'-0"
- Height of bottom section: 4'-5"
- Height of bottom-most section: 3'-0"
- Width of equipment: 4'-5"
- Distance from top of equipment to top of wall: 3'-6"

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



DECK SUSPENDED J-BOXES



LOWER CASHWRAP @ ACCESS PANEL



INSIDE CASHWRAP

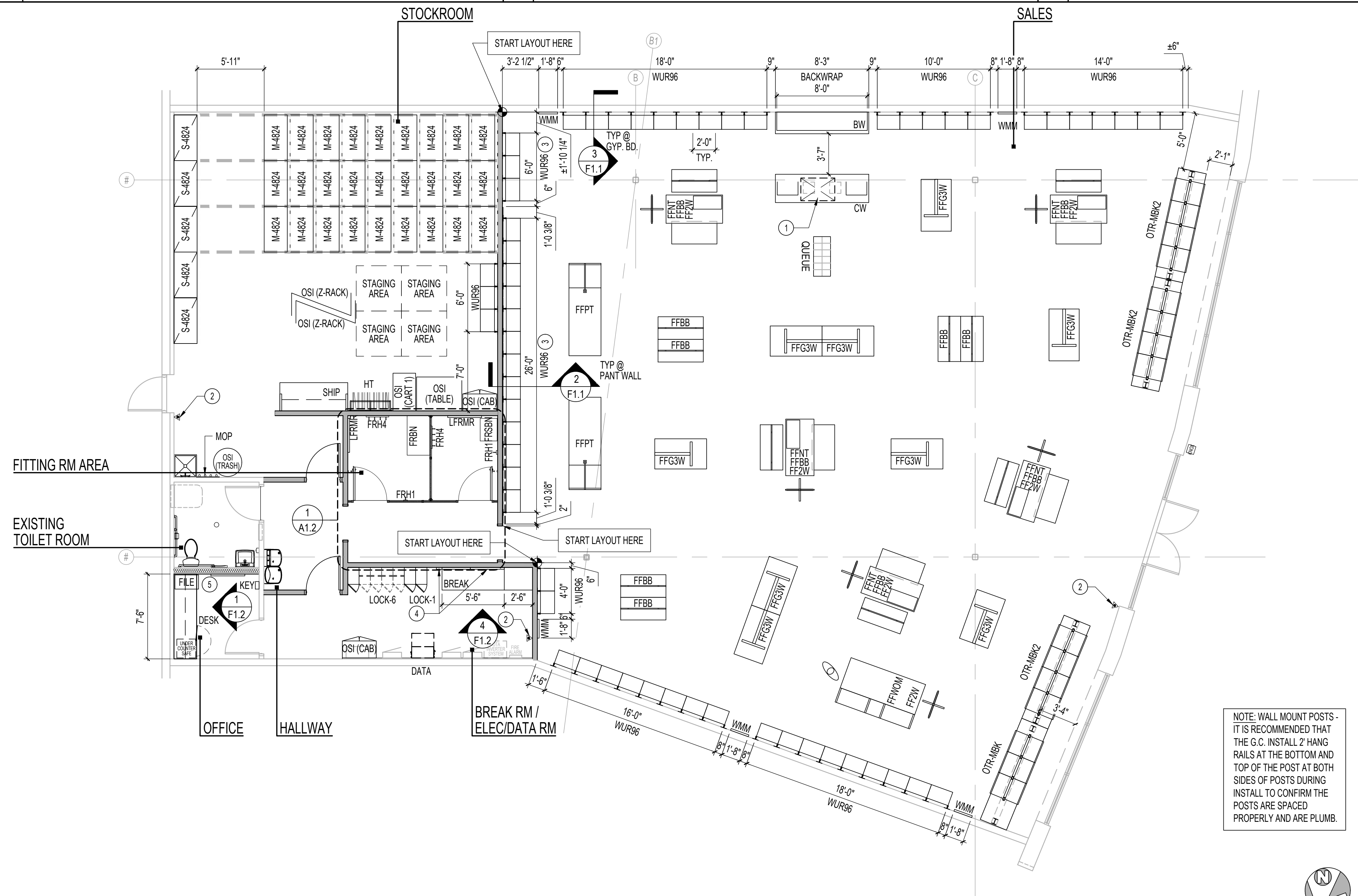
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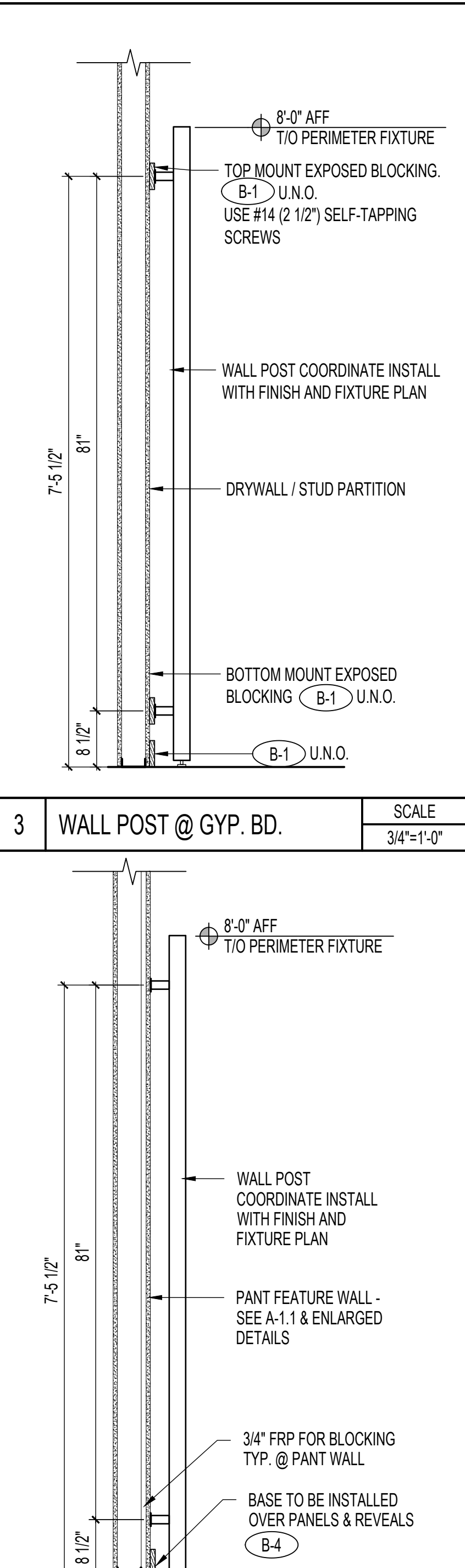
1. THIS PORTION OF CASHWRAP MEETS ACCESSIBILITY GUIDELINES AND IS 36" WIDE BY 24" DEEP, AND COUNTER TOP AT 34" AFF.  
2. PROPOSED FIRE EXTINGUISHER LOCATION - CONFIRM WITH FIRE MARSHAL.  
3. REMOVE WOOD TRIM FROM THE SIDES OF THESE POSTS.  
4. INSTALL OWNER SUPPLIED CORK BOARD VERTICALLY, WITH BOTTOM AT 42" A.F.F.  
5. INSTALL OWNER SUPPLIED DRY-ERASE BOARD VERTICALLY, WITH BOTTOM AT 52" A.F.F.

MARK	ITEM DESCRIPTION	NOT USED	EXIST	CONTRACTOR		VENDOR		OWNER		MARK	FIXTURE ITEM DESCRIPTION	NOT USED	EXIST.	CONTRACTOR		G+B*		VERMONT STORE FIXTURES		OWNER	
				FURN.	INST.	FURN.	INST.	FURN.	INST.					FURN.	INST.	FURN.	INST.	FURN.	INST.	FURN.	INST.
BREAK	BREAK COUNTER - SEE F1.2			●	●					BW	BACKWRAP				●	●					
DATA	DATA CABINET				●			●		CW	CASHWRAP				●	●					
DESK	MANAGER'S DESK - SEE F1.2			●	●					CMP96	POST - CEILING MOUNT (96" CEILING)	●									
HT	HANGER MANAGEMENT SECTIONS WITH 12 H-BARS IN EACH SECTION				●			●		CMP144	POST - CEILING MOUNT (144" CEILING)	●									
LOCK-1	LOCKERS - ULINE : 12" X 18" X 72"				●			●		FF2W	T-STAND				●	●					
LOCK-6	LOCKERS - ULINE: 72" X 18" X 72"				●			●		FFBB	BALLET BAR				●	●					
M-XXXX	MOBILE STOCK SHELVING							●	●	FFC30	CUBE FIXTURE - 30" SQUARE	●									
MOP	MOP & BROOM RACK ABOVE MOP SINK				●			●		FFG3W	GONDOLA - 3 WAY				●	●					
SHIP	PACKING STATION				●			●		FFNT	NESTING TABLE SET WITH RISER				●	●					
S-XXXX	STATIONARY STOCK SHELVING							●	●	FFPT	PANT TABLE				●	●					
CAB	STORAGE & CABINET WITH DOORS. SHORTER UNIT IN TOILET ROOM.				●			●		FFWOM	WOMEN'S FIXTURE DISPLAY				●	●					
OSI	OWNER SUPPLIES EQUIP.				●			●		FRH1	FITTING ROOM HOOK - 1 - SEE A1.2 FOR SPEC			●	●						
FILE	FILE CABINET (UNDER-COUNTER)				●			●		FRH4	FITTING ROOM HOOKS - 4 SEE A1.2 FOR SPEC			●	●						
KEY	KEY BOX				●			●		FRMR	FITTING ROOM MIRROR				●	●					
										FRBN	FITTING ROOM BENCH - ADA				●	●					
										FRSBN	FITTING ROOM BENCH - SMALL				●	●					
										LFRMR	ILLUMINATED WALL MOUNTED MIRROR SEE A-1.2 FOR SPEC.			●	●						
										OTR-MBK	POST SYSTEM ON BASE FOR CONCRETE				●	●					
										OTR-MBK2	POST SYSTEM ON BASE FOR CONCRETE				●	●					
										OTR-K	POST SYSTEM ON BASE	●									
										QUEUE	QUEUE SYSTEM				●	●					
										WMM	WALL MOUNT MIRROR				●	●					
										WUR96	POST - WALL MOUNT				●	●					

A	KEY NOTES	#	B	STOCKROOM FIXTURE SCHEDULE	C	FIXTURE SCHEDULE	• ASSEMBLY REQUIRED FOR ALL G+ B FIXTURES
---	-----------	---	---	----------------------------	---	------------------	---



NOTE: WALL MOUNT POSTS - IT IS RECOMMENDED THAT THE G.C. INSTALL 2" HANG RAILS AT THE BOTTOM AND TOP OF THE POST AT BOTH SIDES OF POSTS DURING INSTALL TO CONFIRM THE POSTS ARE SPACED PROPERLY AND ARE PLUMB.



1	FIXTURE PLAN	SCALE 3/16" = 1'-0"	2	WALL POST @ PANT WALL	SCALE 3/4" = 1'-0"
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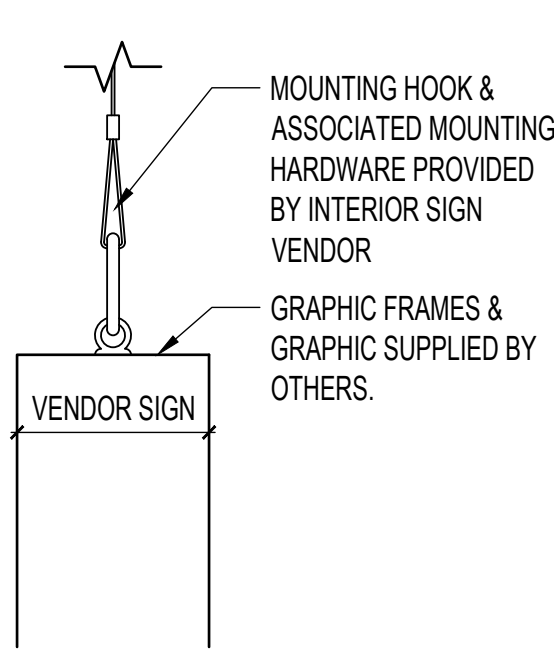
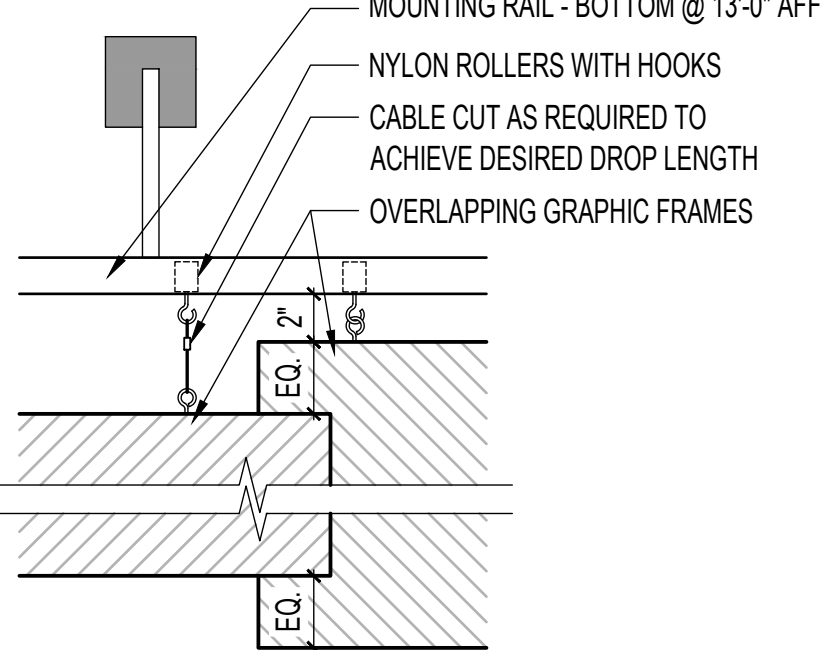
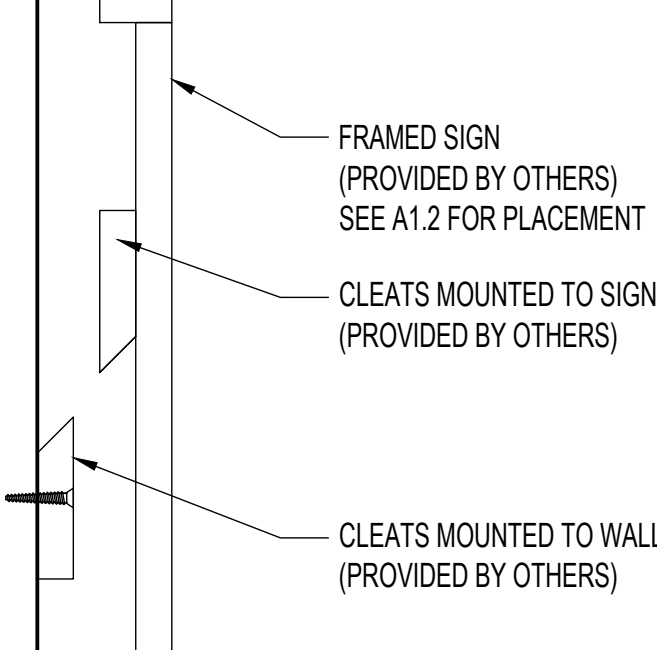
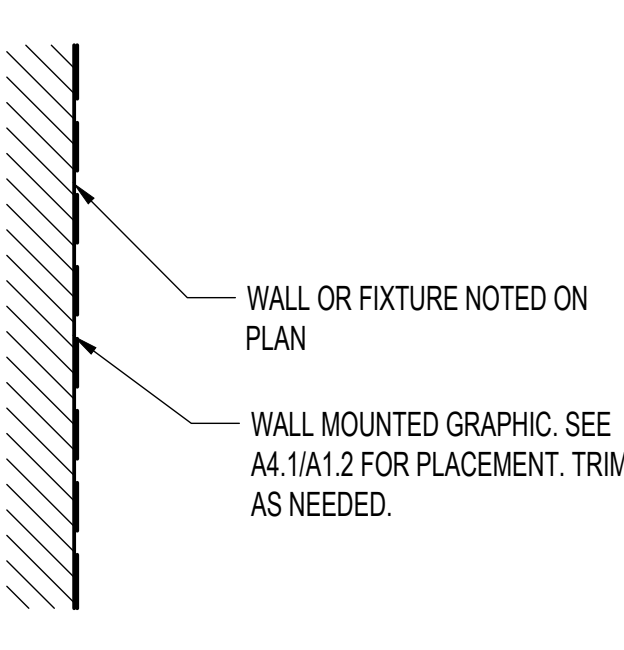
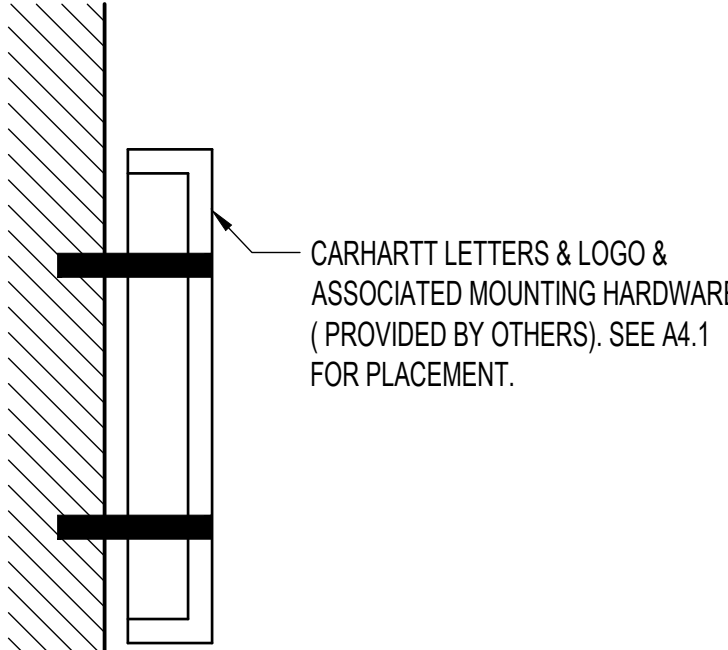
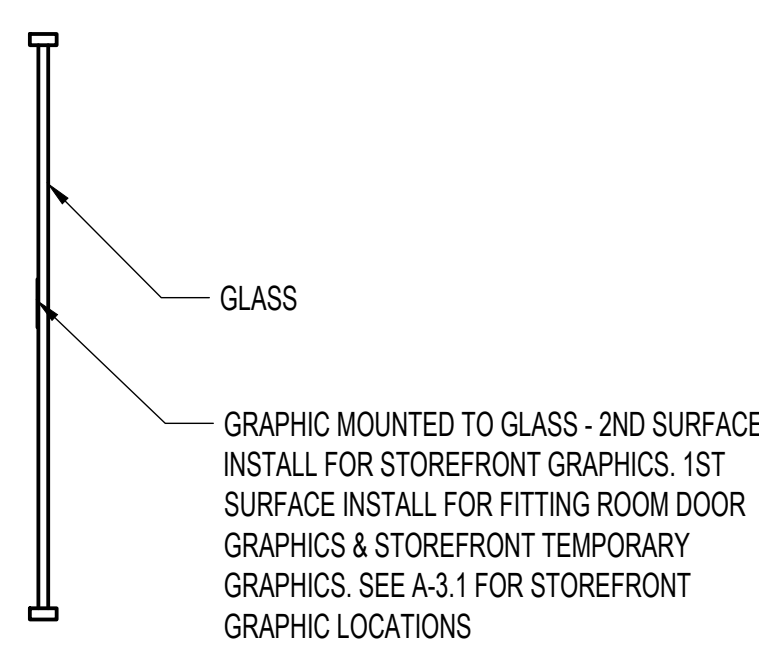
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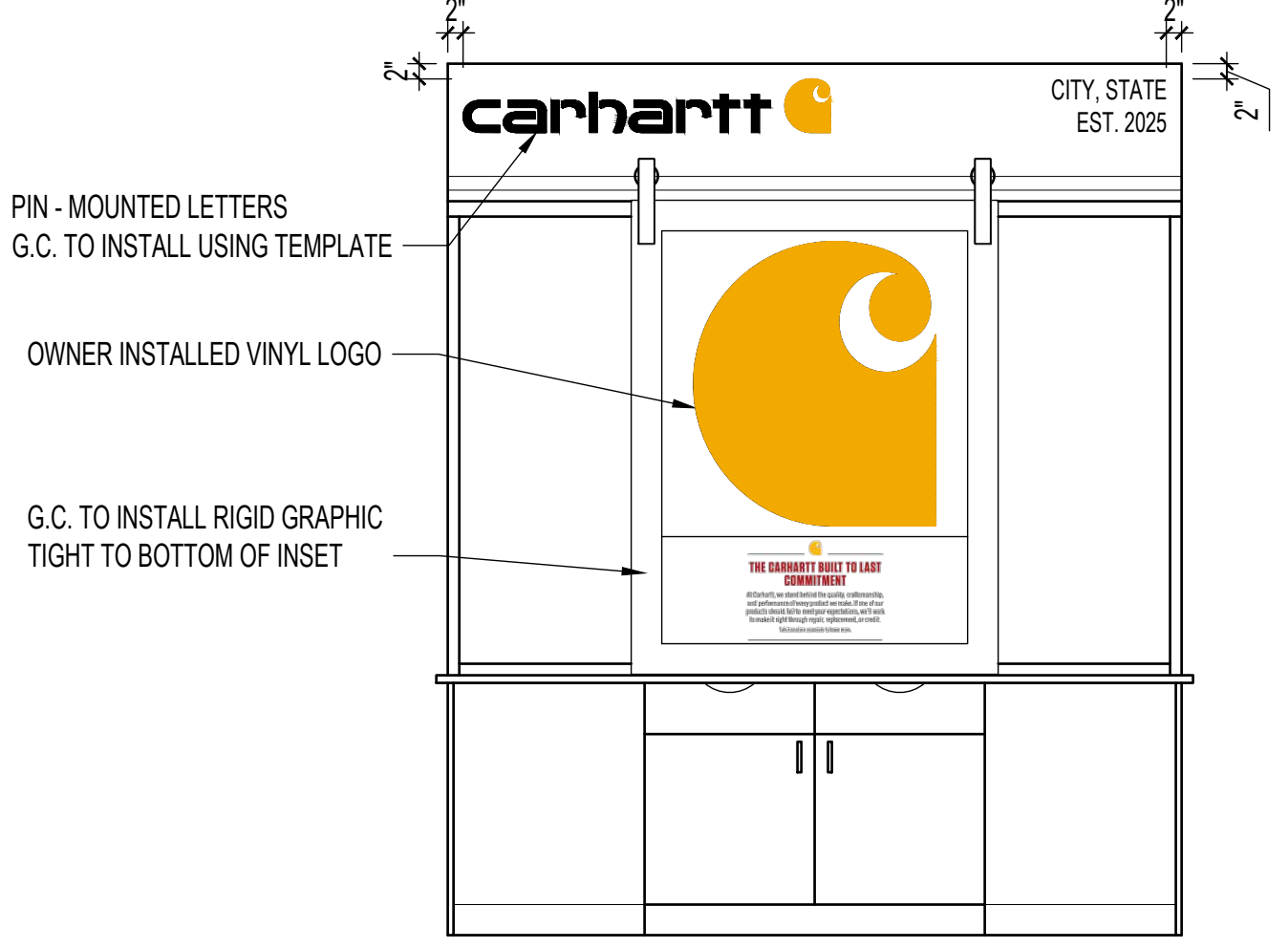
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JOB NUMBER	25341
SHEET NAME	F-1.1





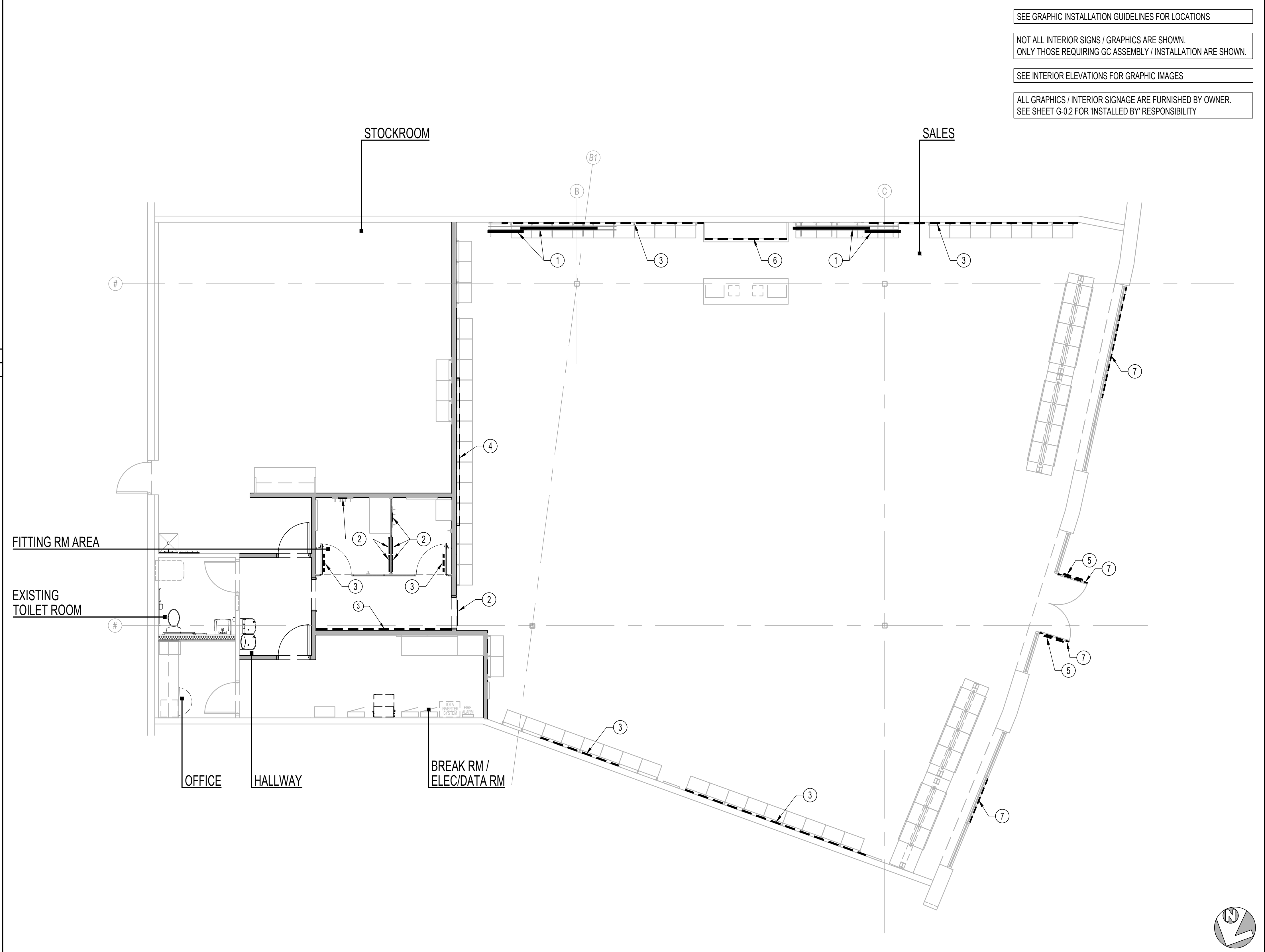


 <p>GRAPHIC TYPE 'A' - SECTION</p>			 <p>GRAPHIC TYPE 'A' - FRONT ELEV.</p>			 <p>GRAPHIC TYPE 'B'</p>			 <p>GRAPHIC TYPE 'C'</p>			 <p>GRAPHIC TYPE 'D'</p>			 <p>GRAPHIC TYPE 'E'</p>			<ol style="list-style-type: none"><li>1. SUSPENDED GRAPHIC FRAME : G.C. TO ASSEMBLE &amp; INSTALL SUSPENDED FRAME. SUSPEND FROM GRAPHIC RAIL NYLON ROLLERS ABOVE. SEE A/F2.1.</li><li>2. FRAMED SIGN : G.C. TO INSTALL FRAMED SIGNS. MOUNT WITH CLEATS. PROVIDE CONCEALED BLOCKING. SEE B/F2.1.</li><li>3. VINYL GRAPHICS ON WALL / WOOD DOOR : SEE C/F2.1</li><li>4. PROJECTED PIN MOUNTED SIGN : G.C. TO INSTALL PIN MOUNTED LETTERS &amp; LOGO ON WC-1. SEE D/F2.1</li><li>5. VINYL GRAPHIC ON GLAZING : SEE E/F2.1.</li><li>6. BACKWRAP GRAPHICS : SEE F/F2.1</li><li>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.</li></ol>		
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				



GRAPHIC TYPE 'F' @ BACKWRAP

F	BACKWRAP GRAPHIC SIGN DETAIL	SCALE 1/2" = 1'-0"
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1	INTERIOR SIGNAGE & GRAPHICS PLAN	SCALE 3/16" = 1'-0"
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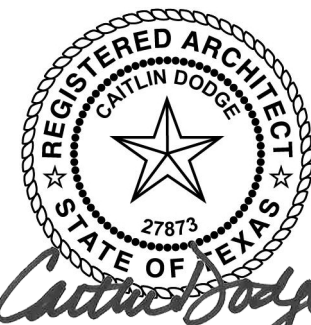
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
















**ALAMO QUARRY MARKET**  
7322 JONES  
MALTSBERGER RD.  
SUITE 112  
SAN ANTONIO, TX 78209

INTERIOR SIGNAGE &  
GRAPHIC PLAN

DRAWN BY	SLS
CHECKED BY	AT / SL
JOB NUMBER	25341
SHEET NAME	F-2.1



ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
<b>LIGHTING AND LIGHTING CONTROLS</b>	
	LUMINAIRE (REFER TO THE LUMINAIRE SCHEDULE) NOTE THAT OTHER SHAPES MAY ALSO BE USED TO REPRESENT LUMINAIRS
	SHADED LUMINAIRE DENOTE THOSE CONNECTED TO EMERGENCY OR STANDBY POWER AS APPLICABLE (UNSWITCHED LUMINAIRE ARE EGRESS LIGHTS AND/OR NIGHT-LIGHTS THAT OPERATE 24/7)
	TRACK LIGHTING IN LENGTH SHOWN AND WITH NUMBER OF LUMINAIRE HEADS AS INDICATED PROVIDE ALL REQUIRED ACCESSORIES (FITTINGS, END CAPS, POWER FEEDS, ETC.)
WALL MOUNT:	SINGLE / DOUBLE SIZED EXIT SIGN CONNECT AHEAD OF SWITCHING & CONFIGURE ARROWS TO INDICATE DIRECTION OF EGRESS TRAVEL
	EMERGENCY LIGHTING UNIT WITH 90-MINUTE BATTERY BACKUP AND ASSOCIATED REMOTE HEADS WHERE APPLICABLE. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING
	A = L LUMINAIRE TYPE, NL = NIGHT-LIGHT (UNSWITCHED); a = SWITCHING DESIGNATION EL = EGRESS LUMINAIRE (ILLUMINATES PATH OF EGRESS, UNSWITCHED UNLESS OTHERWISE NOTED)
	LIGHTING SWITCH (KEYS: 2 = 2-POLE, 3 = 3-WAY, 4 = 4-WAY, D=DIMMER, K=KEYED, T = TIMER SWITCH, M = MOMENTARY-CONTACT, P = SWITCH W/PILOT LIGHT)
	CEILING-MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED BY TYPE. TYPE "IR" = INFRARED, TYPE "US" = ULTRASONIC
	WALL-MOUNTED OCCUPANCY SENSOR SWITCH. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED BY TYPE. TYPE "IR"=INFRARED, TYPE "US"=ULTRASONIC, "V"=VACANCY SENSOR, "D" = DIMMED.

<h2 style="text-align: center;">RECEPTACLES AND MISCELLANEOUS OUTLETS</h2>	
  	SINGLE ("SIMPLEX"), DUPLEX, AND DOUBLE DUPLEX ("QUAD") RECEPTACLE RESPECTIVELY
  	GFI / GFCI RECEPTACLES
 	FULL SWITCHED RECEPTACLES
     	<u>RECEPTACLE ATTRIBUTES</u> 42" = MOUNT RECEPTACLE AT THIS HEIGHT ABOVE GRADE / FINISHED FLOOR C = INSTALL ABOVE COUNTER AND BACKSPLASH H = INSTALL RECEPTACLE HORIZONTALLY L = LIT (PROVIDE ILLUMINATED FACE OR INDICATOR LIGHT TO INDICATE THERE IS POWER TO RECEPTACLE) SW = SPLIT WIRED T = TAMPER RESISTANT W = WEATHER PROOF WHILE IN USE COVER AND WEATHER RESISTANT RECEPTACLE
<h2 style="text-align: center;">MISCELLANEOUS</h2>	
 	LOW VOLTAGE THERMOSTAT (LEFT) AND TEMPERATURE SENSOR (RIGHT)
	INDICATES DIRECT CONNECTION TO EQUIPMENT
  	MOTOR RATED TOGGLE SWITCH, MANUAL STARTER WITH PILOT LIGHT, AND MANUAL STARTER WITH PILOT LIGHT WITH EXTERNAL RELAY FOR CONTROL OR MONITORING RESPECTIVELY - ALL MAY BE KEVED "K"
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD (DIMENSIONS MAY VARY / FLUSH OR SURFACE MOUNTED AS INDICATED)
 	DRY TYPE TRANSFORMER - FLOOR MOUNTED ON CONCRETE PAD (LEFT), SUSPENDED FROM CEILING OR WALL (RIGHT)
 	OIL FILLED TRANSFORMER

## GENERAL ELECTRICAL INSTALLATION NOTES

A. CODE COMPLIANCE: PROVIDE ALL ELECTRICAL WORK COMPLIANT WITH ALL PREVAILING CODES.

B. LISTINGS: PROVIDE MATERIALS, COMPONENTS AND ASSEMBLED COMPONENTS WITH LISTINGS AND LABELS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), MANUFACTURED, LISTED AND LABELED FOR THEIR INTENDED USE.

C. RATED BUILDING SURFACES: SEPARATE DEVICE BOXES BY A MINIMUM OF 6 INCHES WHERE INSTALLED BACK-TO-BACK WITHIN PENETRATING WALLS TO MEET FIRE-RATED FIRE AND SOUND RATING (TYPICAL OF ALL DEVICE BOXES INSTALLED ON DEMISING WALLS). PROVIDE LISTED FIRE-RATED WRAPS AROUND ALL RECESSED OUTLET, DEVICE AND EQUIPMENT BOXES IN FIRE-SMOKE RATED WALLS, CEILINGS AND FLOORS TO MEET OR EXCEED THE RESPECTIVE FIRE-SMOKE RATING OF THE SURFACE.

D. RATED PENETRATIONS: SEAL ALL PENETRATIONS THROUGH FIRE-RATED AND/OR SMOKE-RATED MEMBRANES (FLOORS, WALLS, CEILINGS, ETC.) USING SEALANT PRODUCTS THAT MEET OR EXCEED THE RATING OF THE RESPECTIVE MEMBRANE.

E. DEVICES AND DEVICES: INSTALL WIRING DEVICES AND EQUIPMENT WITHIN THE SAME VERTICAL PLANE WHERE THEY ARE SHOWN TOGETHER. THIS INCLUDES LOCATIONS ABOVE COUNTERS AND WORK SURFACES WHERE APPLICABLE.

F. OUTLET BOXES, NEAR CORNERS: INSTALL WALL-MOUNTED SWITCHES, CONTROLS, RECEPTACLES, OUTLETS, ETC. AT LEAST 6 INCHES FROM WALL OR CORNERS.

G. CONCEALEMENTS: CONCEAL ALL CONDUIT DROPS AND RISES WITHIN WALLS, AND PROVIDE FLUSH-MOUNTED WALL OUTLET BOXES UNLESS OTHERWISE INDICATED.

H. PERMITS AND DOCUMENTS: REVIEW ALL DOCUMENTS OF OTHER TRADES, INCLUDING ARCHITECTURAL, PRIOR TO SUBMITTING A BID. PROVIDE ELECTRICAL WORK FOR EQUIPMENT, DEVICES, ETC. OF OTHER TRADES AS REQUIRED TO RENDER THEIR FULLY OPERATIONAL. REFER TO ARCHITECTURAL ELEVATIONS FOR INTENDED LOCATIONS AND MOUNTING HEIGHTS FOR EQUIPMENT AND OUTLETS, ETC. PRIOR TO INSTALLATION. RELATE TO THE FOLLOWING: 1. ELECTRICAL SCHEDULES 2. ELECTRICAL SCHEMATIC REPRESENTATIONS: CIRCUITING WORK SHOWN ON DRAWINGS IS FOR SCHEMATIC GENERAL GRAPHIC REPRESENTATION ONLY. DETERMINE SPECIFICS IN FIELD (POINT-TO-POINT ROUTING, HOME-RUN LOCATIONS, METHODS OF CONDUIT/ CABLE, ETC.). LOCATIONS AND ROUTING INDICATED ON PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. LAYOUT AND INSTALL ALL ELECTRICAL WORK IN STRICT COMPLIANCE WITH CHAPTER 1, PART 1, ARTICLE 110.1 OF THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).

I. HOME-RUN DESIGNATIONS: HOME-RUN DESIGNATIONS INDICATED ON PLANS ARE SCHEMATIC DESIGNATIONS ONLY. DETERMINE EXACT CIRCUIT ASSIGNMENTS TO BE MADE BASED ON FIELD CONDITIONS. PROVIDE COLOR-CODED CONDUCTOR INSULATION ACCORDINGLY, CODED PROPERLY DEPENDING ON SYSTEM, PHASE, NEUTRAL, ETC. PROVIDE EQUIPMENT AND PANELBOARD SCHEDULES THAT ACCURATELY INDICATE INSTALLED CONDITIONS.

J. DISCONNECTS AND CONTROLS: DISCONNECTS AND LOCAL CONTROLS SHOWN AT OR ON EQUIPMENT IN PLAN-VIEW ARE SHOWN FOR SCHEMATIC ASSOCIATIONS ONLY. AVOID INSTALLING DISCONNECTS OR CONTROLS ON EQUIPMENT ENCLOSURES. INSTALL ON ADJACENT WALLS OR BUILDING STRUCTURE, OR PROVIDE FIELD-LOCATED UNIT, OR EQUIVALENT, OR PROVIDE EQUIPMENT ENCLOSURE WITH LOCAL CONTROLS. PROVIDE DISCONNECTS AND OTHER TRADES, AND PROVIDE ALL RELATED WORK IN STRICT COMPLIANCE WITH NFPA 70, INCLUDING ARTICLE 110.26. PROVIDE A PERMANENT LABEL ON LOCAL DISCONNECTS NOTING THE EQUIPMENT IT SERVES AND THE PANEL AND CIRCUIT TO BE REFEED.

K. COORDINATION: COORDINATE WITH ALL OTHER TRADES AND COORDINATE WITH POWER FLOOR PLANS, EQUIPMENT SCHEDULES AND EQUIPMENT COORDINATION SCHEDULES, DRAWINGS OF ALL TRADES, ALL DIVISIONS AND SECTIONS OF ALL LOCATIONS AND ALL SECTIONS OF ALL LOCATIONS ON AN ACTUAL BASIS. PROVIDE EQUIPMENT COORDINATION SCHEDULES AND PROVIDE APPROPRIATE BREAKERS, FUSES, CONDUCTORS, CONTROLS, POWER DISTRIBUTION EQUIPMENT, ETC. PERFORM THESE SERVICES PRIOR TO FURNISHING POWER DISTRIBUTION EQUIPMENT SUBMITTALS.

L. WEATHER-RESISTANT WORK: ALL ELECTRICAL WORK TO BE EXTENDED TO THE OUTSIDE OF A BUILDING WORK SHALL BE WEATHERPROOF AND WATER-TIGHT, AND SHALL BE RUST-RESISTANT. PROVIDE XHHW-2 CONDUCTORS FOR ALL APPLICATIONS THAT ARE BELOW GRADE OR SUBJECT TO MOISTURE. PROVIDE MINIMUM NEMA 3R ENCLOSURES FOR ALL OUTDOOR EQUIPMENT AND ALL OUTDOOR ELECTRICAL WORK. PROVIDE MINIMUM NEMA 1 ENCLOSURES FOR ALL OUTDOOR ELECTRICAL WORK.

M. EQUIPMENT GROUNDING CONDUCTORS: PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), INCLUDING ARTICLE 250 AND TABLE 250.122. THESE CONDUCTORS MAY OR MAY NOT BE INDICATED ON SINGLE-LINE DIAGRAMS OR ELSEWHERE, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.











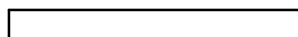
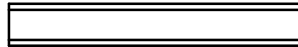




N. OVERHEAD WORK: HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHTLY AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. DO NOT INSTALL ANY ELECTRICAL WORK WITHIN SIX INCHES OF ROOF DECKING.

O. COORDINATION DRAWINGS: LAYOUT ALL PROPOSED RACEWAY ROUTING WITHIN THE SAME VERTICAL PLANE, METHODS, ETC. ON COORDINATION DRAWINGS AND COORDINATE ALL PROPOSED RACEWAY ROUTING WITH ALL AFFECTED TRADES PRIOR TO COMMENCING WITH WORK. IN ADDITION, REVIEW THE INFORMATION WITH ARCHITECT, ENGINEER AND OWNER FOR ALL AREAS OF THE PROJECT WHERE RACEWAY ROUTING IS REQUIRED.

P. JUNCTION AND PULL BOXES: LOCATE JUNCTION AND PULL BOXES SO THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF THE WORK. LOCATE PULL BOXES IN A MANNER THAT PROVIDES ACCESS TO ALL TRAYS AND CABLES. PROVIDE TRAYS AND CABLES PROVIDE THEM RATED TO MEET OR EXCEED THE FIRE AND/OR SMOKE RATINGS OF THE RESPECTIVE CEILING OR WALL, AND OBTAIN APPROVAL OF DESIGN PROFESSIONALS FOR EACH LOCATION.

Q. CONDUIT TERMINATIONS: IN CASES WHERE CONDUITS ARE TOO LARGE TO FIT INTO LUGS/TERMINALS, PROVIDE APPROPRIATE FACTORY LUG KITS FOR AFFECTED EQUIPMENT IF AVAILABLE. ELSEWHERE, PROVIDE INSULATED BUTT-SPICES OR EQUIVALENT METHOD, WITH TAILS SIZED TO FIT LUGS/TERMINALS. PROVIDE SPLICES IN SEPARATE BOXES IF REQUIRED TO BE ON FIELD TERMINATIONS. BOXES AND TERMINATIONS, ETC. CONCEAL BOXES IN ACCESSIBLE OVERHEAD JOIST SPACES IN FINISHED GRADE/INDOOR OCCUPIED AREAS.

S. TYPE MC, AC, NM, SE CABLE: WHERE MORE THAN TWO TYPE MC, AC, NM, OR SE CABLES CONTAINING TWO OR MORE ELECTRICAL CIRCUITS ARE INSTALLED IN CONTACT WITH THERMAL INSULATION, CAULK, OR SEALING FOAM MAINTAIN SPACING BETWEEN CABLES.

ELECTRIC LEGEND	
SYMBOL	DESCRIPTION
<b>SINGLE LINE DIAGRAM</b>	
 	ELECTRIC UTILITY COMPANY METER AND ASSOCIATED CURRENT TRANSFORMERS
HD  	CUSTOMER ELECTRIC METER AND ASSOCIATED CURRENT TRANSFORMERS HD = HIGH DENSITY METERING CABINET/BANK MOUNTED TO TIGHTLY GROUP ALL METERS TOGETHER
	GROUNDING ELECTRODE PER NFPA 70 ARTICLE 250 MINIMUM
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD
	SURGE PROTECTIVE DEVICE
<b>WIRE / CABLE / RACEWAY</b>	
 LPA-1.3	BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER(S)
	CABLING / RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING
	CABLING / RACEWAY INSTALLED BELOW FLOOR OR GRADE
	CABLE TRAY
	FEEDER DUCT / BUS DUCT
	JUNCTION BOX ABOVE ACCESSIBLE CEILING
	JUNCTION BOX AT OVERHEAD STRUCTURE IN AREAS WITH NO CEILING
UP  DN 	CONDUIT UP OR DOWN

ABBREVIATIONS			
42"	DISTANCE ABOVE FINISHED FLOOR / GRADE / PAVEMENT	LR	LEGALLY REQUIRED STANDBY
AF	AMP FRAME OF FUSED SWITCH OR CIRCUIT BREAKER	LI	LONG - INSTANTANEOUS
AFI	ARC-FAULT CIRCUIT INTERRUPTER	LSI	LONG - SHORT - INSTANTANEOUS
ATS	AMP TRIP OF FUSED SWITCH OR CIRCUIT BREAKER	LSIG	LONG - SHORT - INSTANTANEOUS - GROUND FAULT
	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
BAS	BUILDING AUTOMATION SYSTEM	MFR	MANUFACTURER
		MLO	MAIN LUGS ONLY
		MTS	MANUAL TRANSFER SWITCH
		MW	MICROWAVE OVEN
C.T.C.	WORK UNDER DIVISION 27 OR 28 AS APPLICABLE	NCS	NOT IN CONTRACT (SHOWN FOR REFERENCE ONLY)
C/B	CIRCUIT BREAKER	NTS	NOT TO SCALE
C / CH	COUNTER HEIGHT OR SPECIAL HEIGHT DEVICE	OFE	OWNER-FURNISHED EQUIPMENT - INSTALLED AND WIRED BY E.C.
DW	DISHWASHER	OS	OPTIONAL STANDBY
E	EMERGENCY	P.C.	WORK UNDER DIVISION 22
E.C.	WORK UNDER DIVISION 26		
EMS	ENERGY MANAGEMENT SYSTEM	(R)	RELOCATE
EPO	EMERGENCY POWER OFF		
ER	EQUIPMENT ROOM	S.C.	WORK UNDER DIVISION 21
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	SCCR	SHORT CIRCUIT CURRENT RATING
ESP	EMERGENCY STANDBY RATING	SPD	SURGE PROTECTIVE DEVICE
EXT	EXISTING TO REMAIN	ST	SHUNT TRIP
EX	ELECTRIC WATER COOLER	TAAC	TO ABOVE ACCESSIBLE CEILING
FBO	EXISTING	T	TAMPER RESISTANT
FBO	FURNISHED BY OTHERS - INSTALLED AND WIRED BY E.C.	TTB	TELEPHONE TERMINAL BOARD
	FURNISHED AND INSTALLED BY OTHERS - WIRED BY E.C.	TYP	TYPICAL
FP	RECEPTACLE TO BE USED FOR A FLAT PANEL DISPLAY	UCR	UNDER COUNTER REFRIGERATOR
FD	FURNISHED WITH EQUIPMENT BY OTHERS - INSTALLED AND WIRED BY E.C.	UL	UNDERWRITERS LABORATORY
GF	GARBAGE DISPOSAL	UL S.E.	LISTED FOR SERVICE ENTRANCE
GFEP	GROUND FAULT EQUIPMENT PROTECTION	UNO	UNLESS NOTED OR INDICATED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS
GF / GFI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE	VFD / VSD	VARIABLE FREQUENCY / SPEED DRIVE
GND	GROUND	VIF	VERIFY IN FIELD
		VM	VENDING MACHINE
H.C.	WORK UNDER DIVISION 23	VP	VANDAL PROOF
H.O.A.	"HAND - OFF - AUTO" SWITCH	W / WP	WEATHERPROOF
IG	ISOLATED GROUND	WG	WIRE GARD
isc	SHORT CIRCUIT CURRENT	WR	WEATHER RESISTANT
		X	RATED FOR CLASSIFIED LOCATION

<b>PLAN-VIEW AND GRAPHIC LINE TYPES</b>	
WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK (UNLESS OTHERWISE INDICATED)	
WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE (UNLESS OTHERWISE INDICATED)	
WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK (UNLESS OTHERWISE INDICATED)	
<b>ELECTRONIC DRAWING REQUEST</b>	
ELECTRONIC COPIES OF THESE DRAWINGS MAY BE REQUESTED AT: <a href="mailto:WORKS@LUNGENS.COM">WORKS@LUNGENS.COM</a> OR <a href="mailto:DRAWINGS@LUNGENS.COM">DRAWINGS@LUNGENS.COM</a>	

<p>FOR THE ELECTRICAL CONTRACTOR'S USE ONLY</p>
<h2 style="text-align: center;">ELECTRIC DESIGN CRITERIA</h2>
<h3 style="text-align: center;">APPLICABLE BUILDING CODES</h3> <p>IBC (2021) INTERNATIONAL BUILDING CODE          IECC (2021) INTERNATIONAL ENERGY CONSERVATION CODE          NFPA 70 (2023) NATIONAL ELECTRIC CODE          NFPA 72 (2019) NATIONAL FIRE ALARM &amp; SIGNALING CODE</p>
<h3 style="text-align: center;">TESTING/COMMISSIONING FOR LIGHTING CONTROLS</h3> <p>LIGHTING CONTROL DEVICES AND SYSTEMS SHALL BE TESTED TO ENSURE THE HARDWARE AND SOFTWARE IS CALIBRATED, PROGRAMMED, AND IN PROPER WORKING ORDER. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED INSTALLATION REPORTS AND CERTIFICATES (UNLESS COMMISSIONING IS BEING PERFORMED IN WHICH CASE THE COMMISSIONING PROVIDER SHALL BE RESPONSIBLE FOR ALL REPORTS, CERTIFICATES, ETC.) AND SHALL PROVIDE MANUALS FOR LIGHTING CONTROL DEVICES TO OWNER PRIOR TO PROJECT CLOSE-OUT AND ALSO INCLUDE THE NAME AND ADDRESS OF AT LEAST ONE SERVICING AGENCY FOR THE LIGHTING CONTROL EQUIPMENT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH APPROPRIATE PARTIES TO ARRANGE FOR TESTING OF THE LIGHTING CONTROL SYSTEMS AND SHALL BE RESPONSIBLE FOR ENSURING ALL REQUIRED FUNCTIONAL PERFORMANCE TESTING FORMS/REPORTS ARE COMPLETED AND SUBMITTED TO THE OWNER AND LOCAL AHJ PRIOR TO PROJECT CLOSE-OUT (NO LATER THAN WITHIN 90 DAYS OF PROJECT CLOSEOUT). FUNCTIONAL PERFORMANCE TESTING OF LIGHTING CONTROLS SHALL FOLLOW THE REQUIREMENTS LISTED IN THE APPLICABLE ENERGY CODE INCLUDING (BUT NOT LIMITED TO) VERIFICATION OF THE PERFORMANCE OF OCCUPANCY SENSORS, AUTOMATIC TIME SWITCHES, AND DAYLIGHT HARVESTING CONTROLS.</p>

**EXISTING CONDITIONS - POWER CONTINUITY NOTES**

THE FOLLOWING NOTES SHOULD DEFINE SOME OF THE SPECIALTY BASE BID WORK OF WORK REQUIRED TO PROVIDE SPECIAL TEMPORARY POWER FOR NEW AND EXISTING FACILITIES TO ACCOMMODATE UTILITY POWER INTERRUPTIONS. FIELD VERIFY ALL SPECIFICS AND PROVIDE MATERIALS, NORMAL TIME LABOR, PREMIUM TIME LABOR, SERVICES, ETC. FOR ALL WORK UNDER BASE BID, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A. **INVESTIGATION OF EXISTING CONDITIONS:** LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH OR NEAR DEMOLITION AREAS OR NEAR OR THROUGH DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, PROVIDE TEMPORARY SERVICES FOR AFFECTED AREAS. IT IS RECOGNIZED THAT THERE MAY BE SOME CONDUIT SYSTEMS RENDERED INACTIVE BY DEMOLITION, CAUSING THE LOSS OF SOME CONDUIT OR CONDUIT SYSTEMS. INVESTIGATE THESE AREAS OF CONDITIONS (FOR ALL SYSTEMS) PRIOR TO DEMOLITION. PROVIDE NECESSARY CORRECTIVE ELECTRICAL WORK PRIOR TO DEMOLITION TO ENSURE THAT SUCH "DOWNSTREAM" DEVICES REMAIN PERMANENTLY ACTIVE THROUGHOUT DEMOLITION, DURING CONSTRUCTION, AND AFTER PROJECT COMPLETION. MAINTAIN ALL ELECTRICAL WORK SERVING EXISTING SPACES AND EQUIPMENT THAT MUST REMAIN OPERATIONAL DURING PART OR ALL OF THE CONSTRUCTION PERIOD, AND ENSURE POWER CONTINUITY IS MAINTAINED FOR SAME THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES.

B. **COORDINATION WITH OWNER:** CAREFULLY COORDINATE WORK AND SYSTEM SHUTDOWNS IN ADVANCE WITH OWNER'S REPRESENTATIVE, AND WITH AFFECTED TRADES SO THAT NORMAL BUILDING ACTIVITIES AND OTHER CONSTRUCTION TRADES WILL NOT BE AFFECTED. COORDINATE WITH OWNER'S REPRESENTATIVE AS TO THE FACILITY, OR ANY PART THEREOF, UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS, AND THEN ONLY AFTER PROVIDING TEMPORARY ELECTRICAL SERVICE(S)/FEEDS: NOTIFY OWNER NO FEWER THAN FOURTEEN DAYS IN ADVANCE OF EACH OCCASION WHEN THE ELECTRICAL SERVICE(S)/FEEDS WILL BE STOPPED FOR THE MAINTENANCE OF AN ELECTRICAL SERVICE WITHOUT OWNER'S WRITTEN PERMISSION; DO NOT ENERGIZE ANY NEW WORK WITHOUT NOTIFICATION TO, AND SUBSEQUENT PERMISSION FROM, THE OWNER AND ALL AFFECTED PARTIES.

C. **TEMPORARY ARRANGEMENTS:** COMPLY WITH NFPA 70 (INCLUDING ARTICLE 590), NFPA 70E AND ALL OTHER PREVAILING CODES, DURING CONSTRUCTION-RELATED ELECTRICAL STAGES. PROVIDE TEMPORARY ELECTRICAL WORK REQUIRED TO MAINTAIN POWER TO RELATED AREAS OF THE BUILDING, COORDINATE WITH, AND OBTAIN APPROVAL FROM, OWNER AND DESIGN PROFESSIONALS FOR ALL MEANS AND METHODS. COMPLY WITH NFPA 70E, AND MAINTAIN ALL OUTAGES IN ADVANCE WITH OWNER, AT DAYS OF WEEK AND TIMES OF DAY OR NIGHT AS DIRECTED BY OWNER.

**EXISTING CONDITIONS - GENERAL NOTES**

- A. INTENT OF DOCUMENTS: EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON VISUAL FIELD OBSERVATIONS AND THE REVIEW OF PREVIOUS DRAWINGS THAT MAY NOT HAVE BEEN CERTIFIED "AS-BUILT." IT IS NOT THE INTENT OF THE ELECTRICAL DOCUMENTS THAT EXISTING CONDITIONS BE ACCURATELY SHOWN. EXISTING ELECTRICAL WORK IS SUBJECT TO A VERY LIMITED EXTENT ON THE DRAWINGS AND IS SHOWN FOR GENERAL PLANNING REFERENCE ONLY.
- B. PRE-BID SURVEY: PERFORM A DETAILED PRE-BID WALK-THROUGH FIELD INSPECTION AND SURVEY TO REVIEW THE EXISTING STRUCTURES, EQUIPMENT, AND MATERIALS. PROVIDE A DETAILED DETERMINATION OF THE EXISTING ELECTRICAL SCOPE OF REQUIRED ELECTRICALLY RELATED WORK, INCLUDING APPLICABLE ACCESSIBLE CEILING CAVITY AREAS IN THIS INSPECTION.
- C. REUSE OF REMOVED MATERIALS: DO NOT REUSE REMOVED ELECTRICAL MATERIALS UNLESS SPECIFICALLY INDICATED IN PROJECT DOCUMENTS. EXISTING WIRING SYSTEMS MAY BE UTILIZED ONLY TO THE EXTENT INDICATED IN PROJECT DOCUMENTS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE IN FIELD.
- D. EXISTING POWER DISTRIBUTION EQUIPMENT: WHERE MODIFICATIONS ARE MADE TO EXISTING POWER DISTRIBUTION EQUIPMENT, COMPLETE RE-DESIGN PARALLEL DIRECTORSHIP SHALL OCCUR. AS INFORMATION, WHEN ADDING COMPONENTS TO EXISTING POWER DISTRIBUTION EQUIPMENT, PROVIDE FULL SIZE (NO SPLIT OR TANDEM DEVICES) OVERCURRENT PROTECTION DEVICES (OCps) TO MATCH THOSE ALREADY IN PLACE, INCLUDING MANUFACTURER, MODEL/SERIES, SHORT CIRCUIT CURRENT (SCCR)/AC RATINGS. PROVIDE COMMON TRIPS (NFI) TO ALL INSTALLED HANDLES. PROVIDE PARALLEL DIRECTORSHIP FOR MULTIPLE CIRCUITS. PROVIDE SWITCHING (SWD), EACH HAD AND HID RATINGS WHERE APPROPRIATE FOR LOADS. PROVIDE HANDLE LOCK ON DEVICES FOR EMERGENCY AND CRITICAL LOADS.
- E. EXISTING BRANCH CIRCUITS: MAINTAIN, AND RECONNECT IF REQUIRED, BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. ALL CIRCUIT DESIGNATIONS SHOWN ON THE DRAWINGS INDICATE NEW CIRCUIT ASSIGNMENTS; NOT EXISTING, WHERE COLOR CODING OF BRANCH CIRCUIT CONDUCTORS DOES NOT COMPLY WITH NFPA 70 OR IS NOT CONSISTENT WITH EXISTING CONDITIONS, MODIFY TO COMPLY WITH EXISTING CONDITIONS.
- F. ADDED LOADS TO EXISTING LOADS: IN CASES WHERE NEW LOADS ARE REQUIRED TO BE CONNECTED TO EXISTING CIRCUITS WITH EXISTING LOADS, METER THE EXISTING CIRCUIT IN ADVANCE AND ENSURE THE EXISTING PLUS ADDED LOAD DOES NOT EXCEED 80 PERCENT OF THE SOURCE CIRCUIT BREAKER AMPERE RATING, IF THAT LOAD IS REQUIRED. NOTIFY DESIGNED PROFESSIONAL ENGINEER IMMEDIATELY.
- G. REASSIGNMENT OF EXISTING CIRCUITS: IN CASES WHERE EXISTING CIRCUITS ARE REUSED (BASED ON INFORMATION SHOWN ON DRAWINGS OR BASED ON FIELD CONDITIONS) BUT MUST BE CONNECTED TO BREAKERS OTHER THAN THEIR ORIGINAL BREAKER, RE-WIRE PARALLEL DIRECTORSHIP SHALL OCCUR. AS INFORMATION, WHEN ADDING COMPONENTS TO EXISTING POWER DISTRIBUTION EQUIPMENT, PROVIDE FULL SIZE (NO SPLIT OR TANDEM DEVICES) OVERCURRENT PROTECTION DEVICES (OCps) TO MATCH THOSE ALREADY IN PLACE, INCLUDING MANUFACTURER, MODEL/SERIES, SHORT CIRCUIT CURRENT (SCCR)/AC RATINGS. PROVIDE COMMON TRIPS (NFI) TO ALL INSTALLED HANDLES. PROVIDE PARALLEL DIRECTORSHIP FOR MULTIPLE CIRCUITS. PROVIDE SWITCHING (SWD), EACH HAD AND HID RATINGS WHERE APPROPRIATE FOR LOADS. PROVIDE HANDLE LOCK ON DEVICES FOR EMERGENCY AND CRITICAL LOADS.
- H. ELECTRICAL WORK TO REMAIN OR BE RELOCATED: IF REQUIRED TO RECONFIGURE OR REMOVE EQUIPMENT RELATED TO EXISTING CIRCUITS OR WIRING, REMOVE THE EQUIPMENT, TEMPORARILY REMOVE, STORE IN A PROTECTED LOCATION ON SITE, AND REINSTALL CONFLICTING ELECTRICAL EQUIPMENT, LUMINAIRES, OR DEVICES THAT ARE TO REMAIN OR TO BE RELOCATED.
- I. PROTECTIVE BARRIERS: MAINTAIN AND MAINTAIN TEMPORARY PARTITIONS AND DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT FINISHED AREAS AND OTHER SYSTEM COMPONENTS. PROTECT ADJACENT INSTALLATIONS DURING CUTTING AND PATCHING OPERATIONS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE. PREVENT AIRBORNE DUST AND PARTICULATE MATTER ARISING FROM ELECTRICAL WORK. PROVIDE PROTECTIVE BARRIERS TO OCCUPANCY AREAS. COORDINATE WITH OPERATING HVAC SYSTEMS. MEET WITH OWNER AND HVAC INSTALLER TO DETERMINE SPECIAL INDUOR AIR QUALITY (IAQ) REQUIREMENTS RELATED TO ELECTRICAL, THAT MAY APPLY TO THIS PROJECT. COOPERATE FULLY WITH HVAC EQUIPMENT REQUIREMENTS FOR TESTING, THIRD-PARTY WORK, AND AREA VENTILATION.
- J. PENETRATIONS: MAKE REQUIRED ELECTRICAL OPENINGS THROUGH WALLS, FLOORS, ETC., IMMEDIATELY PRIOR TO INSTALLATION OF WORK. PROPERLY AND PERMANENTLY SEAL ELECTRICAL OPENINGS IMMEDIATELY AFTER INSTALLATION OF WORK. PROHIBIT USE OF GEL OR PUTTY FOR APPLICATIONS WHERE PENETRATIONS ARE MADE BUT CANNOT BE PERMANENTLY SEALED WITHIN FOUR HOURS.
- K. PRE-EXISTING CODE VIOLATIONS: INSPECT EXISTING ELECTRICAL WORK IN AREAS ACCESSED UNDER THIS PROJECT AND BRING INTO COMPLIANCE WITH NFPA 70. THIS APPLIES ONLY TO THE EXTENT THAT SUCH WORK IS UNCOVERED BY THIS PROJECT. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT. PROVIDE NOTICE TO THE ARCHITECT THAT IT APPLIES TO PRE-EXISTING GENERAL INSTALLATION METHODS SUCH AS MISSING JUNCTION BOX PLATE, OPEN JUNCTION BOX KNOCKOUT, MINOR CONDUIT RE-ANCHORING AND MINOR EXPOSED WIRING CONNECTIONS. IF MORE THAN ONE MAJOR CODE VIOLATION IS IDENTIFIED, COVERED, OR COVERED, PROVIDE NOTICE TO THE ARCHITECT AND THE OWNER'S REPRESENTATIVE (DETAILED IN WRITING) ALONG WITH PROPOSED COST FOR CORRECTIONS AND IMPACT (IF ANY) ON THE CONSTRUCTION SCHEDULE.
- L. TEMPORARY LIGHTING AND POWER: COORDINATE WITH NFPA 70 (INCLUDING ARTICLE 590), NFPA 70E AND ALL OTHER BUILDING CODES. PROVIDE TEMPORARY LIGHTING AND POWER CENTERS THROUGHOUT INTERIOR OF NEW WORK OR RENOVATION SPACE. PROVIDE GFCI PROTECTION FOR ALL WORK. COORDINATE WITH GENERAL CONTRACTOR AND OTHER TRADES, AND PROVIDE ANY ADDITIONAL TEMPORARY ELECTRICAL NEEDS THAT ARE REQUIRED. FULLY TEST EACH TEMPORARY CIRCUIT PRIOR TO PROJECT START. UPON COMPLETION OF WORK, THE FRUIT EXTERIOR REPRESENTATIVE (TEMPORARY ELECTRICAL SERVICE(S)) MAY BE DERIVED FROM EXISTING BUILDING ENERGIZED SERVICE. PROVIDE OVERCURRENT PROTECTION, DISCONNECTS, CABLES, CONDUCTORS, RACEWAY, ETC. ACCORDINGLY. PROVIDE TEMPORARY SERVICE FROM UTILITY. PERMISSION TO USE EXISTING BUILDING POWER IS PROVIDED BY THE ARCHITECT. PROVIDE TEMPORARY SERVICE WITH UL LISTED MATERIALS AND PAY ASSOCIATED FEES FOR INSPECTIONS, CONNECTIONS, ETC. AND PAY FOR UTILITY ELECTRIC USAGE/CONSUMPTION COSTS. RESTORE ASSOCIATED SITE AND BUILDING MATERIALS TO THEIR PRE-CONSTRUCTION STATE AND CONDITION AFTER TEMPORARY LIGHTING AND POWER IS REMOVED.
- M. INTERIM LIFE SAFETY PROVISIONS: PROVIDE INTERIM FIRE ALARM AND CODE MINIMUM LIGHTING IN DEMOLITION AND CONSTRUCTION AREAS. PROVIDE TEMPORARY PLASTIC COVERINGS, OBTAINED FROM SMOKE DETECTOR MANUFACTURER, OVER EXISTING SMOKE DETECTORS. PROVIDE INTERIM PLASTIC COVERINGS FROM SMOKE DETECTOR MANUFACTURER, OVER EXISTING SMOKE DETECTORS WITHIN PROJECT AREA, AND IN ADJACENT AREAS THAT ARE EXPOSED TO CONSTRUCTION-RELATED DUST OR AIRBORNE PARTICULATES. REMOVE ALL TEMPORARY LIFE SAFETY WORK WHEN NO LONGER NEEDED.
- N. ADDED EGRESS PATHWAYS: PROVIDE TEMPORARY UL 924 COMPLANT EXIT AND/OR EGRESS LIGHTING ALONG EGRESS ROUTES THAT MUST REMAIN ACCESSIBLE DURING CONSTRUCTION. PROVIDE TEMPORARY FIRE ALARM SYSTEM FULL STATIONS AND AUDIO/VISUAL ALARM NOTIFICATION DEVICES ALONG ALL AFFECTED EGRESS ROUTES. REMOVE THIS SCOPE WHEN NO LONGER NEEDED.

ELECTRIC CONDUIT AND WIRE MATERIAL SCHEDULE				
CONDUIT APPLICATION		CONDUCTOR TYPE	RACEWAY TYPE	RACEWAY AND CONDUIT SCHEDULE
MC - METAL CLAD CABLE				ARC - ALUMINUM RIGID CONDUIT
MI - MINERAL INSULATED CABLE				EMT - ELECTRIC METALLIC TUBING
HMC - HEAT TREATED METAL CLAD CABLE				ENT - ELECTRIC NONMETALLIC TUBING
USE - UNDERGROUND SERVICE ENTRANCE CABLE				FMC - FLEXIBLE METALLIC CONDUIT
SE - SERVICE ENTRANCE CABLE				GRC - GALVANIZED RIGID STEEL CONDUIT
UF - UNDERGROUND FEEDER				HDPE - HIGH DENSITY POLYETHYLENE CONDUIT
NM - NON-METALLIC SHEATHED CABLE				IMC - INTERMEDIATE METAL CONDUIT
RMC - RIGID METAL CONDUIT				LFC - LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT
RNC - RIGID NON-METALLIC CONDUIT				LFNC - LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT
RTRC - REINFORCED THERMOSETTING RESIN CONDUIT				SCH 40 PVC - SCHEDULE 40 POLYVINYL CHLORIDE
LIM - LINE ISOLATION MONITOR				SCH 80 PVC - SCHEDULE 80 POLYVINYL CHLORIDE
---				
---FIRE ALARM---				
EXISTING HOLLOW PARTITIONS	NON-PLENUM RATED		EMT	
CONCEALED	NON-PLENUM RATED		EMT	
EXPOSED	NON-PLENUM RATED		EMT	
CONCEALED, ABOVE ACCESSIBLE CEILINGS	PLENUM RATED		J-HOOKS	
CONCEALED, ABOVE INACCESSIBLE CEILINGS	NON-PLENUM RATED			
EMBEDDED IN CONCRETE SLAB	NON-PLENUM RATED		RNC (SCH 40 PVC)	
---				
---POWER - INDOOR---				
EXISTING HOLLOW PARTITIONS	THHN		MC	
CONCEALED, IN STUD WALLS	THHN		MC	
CONCEALED, DAMP LOCATIONS	XHHW-2		EMT	
CONCEALED, MASONRY	THHN		RNC (SCH 40 PVC)	
VERTICAL RISERS FROM BELOW GRADE INCLUDING ELBOW	XHHW-2		RNC (SCH 40)	
CONNECTION TO SYSTEMS FURNITURE	THHN		LFMC	
EMBEDDED IN CONCRETE SLAB	THHN		RNC (SCH 40 PVC)	
LUMINAIRE WHIPS IN ACCESSIBLE CEILING, 72" MAX	THHN		MC	
EXPOSED	THHN		EMT	
UNDERGROUND	XHHW-2		RNC (SCH 40 PVC)	
EMBEDDED IN CONCRETE WALL	THHN		RNC (SCH 40 PVC)	
HOMERUNS, CONCEALED IN CEILINGS AND STUD WALLS	THHN		EMT	
CONCEALED, IN CEILINGS	THHN		EMT	



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STATE OF TEXAS  
JAMES S. TAVERNELLI  
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Professional Engineer  
5/29/2025

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<div></div>	
ELECTRIC COVER SHEET	
DRAWN BY	
TMG	
CHECKED BY	
MR	
JOB NUMBER	
25341	
SHEET NAME	
E-001	

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KEYED NOTES	
E15	PROVIDE NEW LIGHTING SWITCH BANK. REFER TO DETAILS AND SCHEDULES ON SHEET E-101 FOR MORE INFORMATION.
E24	PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO OVERRIDE SALES AREA GENERAL LIGHTING ON CIRCUIT P-6 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.



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ELECTRIC LIGHTING PLAN

MG

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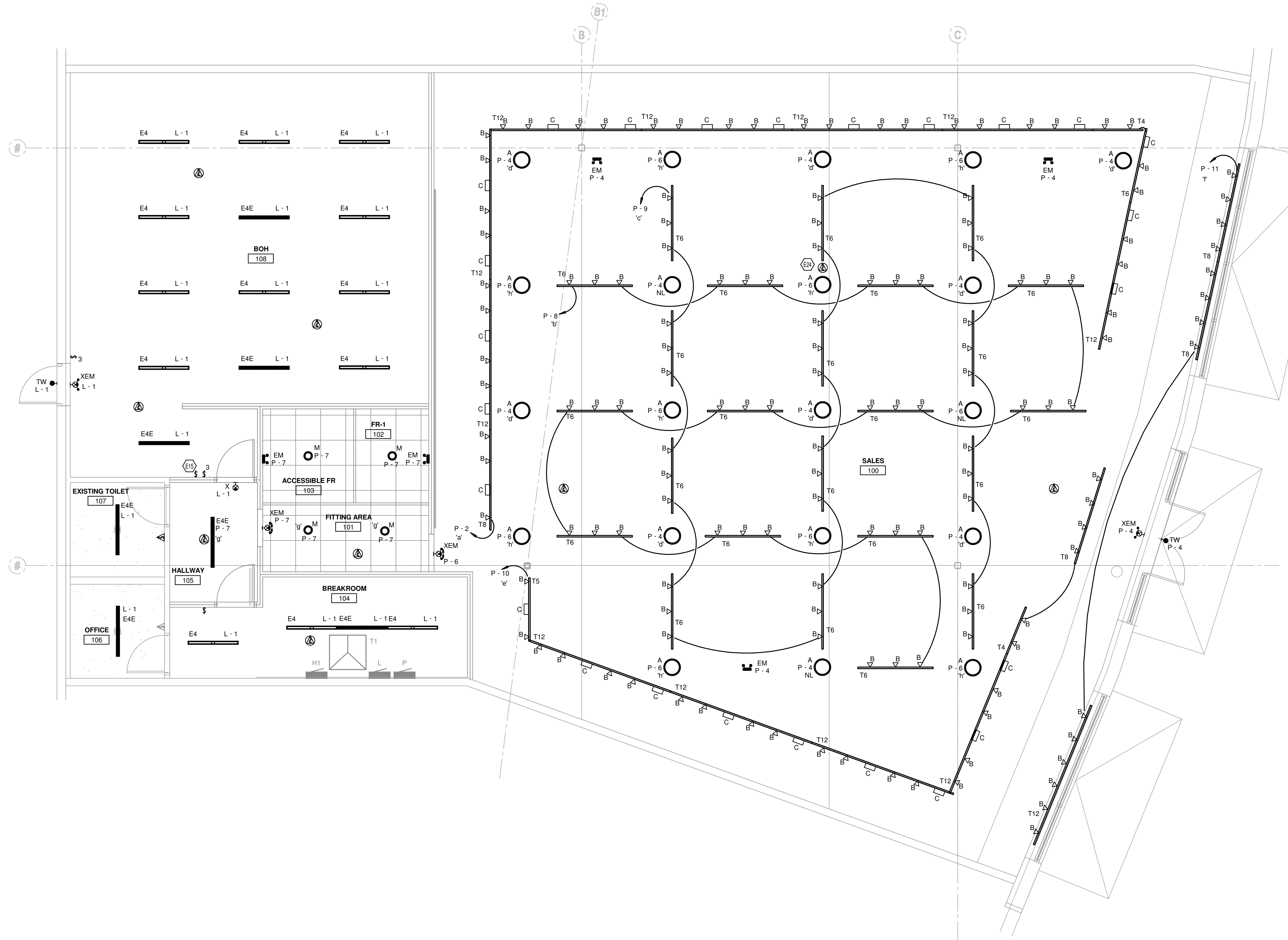
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NUMBER

25341

HEET NAME

E-100



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

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## ELECTRIC LUMINAIRE SCHEDULE

GENERAL NOTES:  
A. REFER TO DRAWINGS FOR MOUNTING TYPE, NUMBER OF FACES AND ARROWS OF EXIT SIGNS. VERIFY IN FIELD PRIOR TO INSTALLATION.  
B. VERIFY COMPATIBILITY WITH VOLTAGE, CONTROLS, ETC. FOR ALL LUMINAIRE COMPONENTS  
C. COORDINATE EACH LUMINAIRE LOCATION WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, CEILING INSTALLERS, ETC. AND PROVIDE APPROPRIATE MOUNTING SYSTEM REQUIRED FOR EACH LUMINAIRE. ALSO, PROVIDE PLASTER FRAMES, WALL BRACKETS, SUPPORTS, OR OTHER APPURTENANCES AS REQUIRED FOR PROPER AND COMPLETE INSTALLATIONS.  
D. WEAR CLEAN WHITE COTTON GLOVES WHEN HANDLING EXPOSED REFLECTIVE LUMINAIRE SURFACES. REMOVE PLASTIC SHIPPING BAGS ONLY AFTER INTERIOR WORK IS COMPLETE, AND CLEAN ALL SURFACES WITH CLEAN DRY CHEESECLOTH.  
E. MOUNTING HEIGHTS INDICATED ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED.  
F. PRODUCTS: PROVIDE PRODUCTS INDICATED ON DRAWINGS AND SCHEDULES. WHERE MULTIPLE MANUFACTURER SERIES/MODEL NUMBERS ARE LISTED AS BASIS-OF-DESIGN, AND WHERE IT IS STATED THAT EQUIVALENTS WILL BE CONSIDERED, ANY PROPOSED NON-LISTED LUMINAIRES ARE SUBJECT TO REVIEW BY DESIGN PROFESSIONAL(S). SUBMITTALS FOR WHICH SHALL BE FURNISHED AT LEAST (10) DAYS PRIOR TO BID DUE DATE OR THEY WILL NOT BE CONSIDERED. THESE PRE-BID SUBMITTALS SHALL CLEARLY STATE EXACTLY WHAT IS BEING PROPOSED AND SHALL DEMONSTRATE COMPLIANT EQUIVALENCY. SIMILAR REQUESTS FOR PROPOSED SUBSTITUTIONS MAY BE MADE ONLY AFTER BIDS ARE...

TYPE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	LIGHT SOURCE	LAMP QTY	DRIVER	DRIVER QTY	BATTERY	BATTERY TYPE	FINISH	LOAD (VA)	UNIVERSAL VOLTAGE (MVOLT)	VOLTAGE	PHASE	COMMENTS
A	HI BAY LIGHTING	SPECTRUM LIGHTING	ALDDH16LX-100L-3 9K-0310X-0272-AL 16MMWI-DR16D-CN FR-PT	PENDANT	INTEGRAL LED	1	ELECTRONIC	1	No		PLATINUM SILVER	81 VA	No	120 V		
B	TRACK HEAD - LED SPOT	CONTECH	CTL-2838-N-S	TRACK	17PAR38-F25/930	1	ELECTRONIC	1	No		SILVER	19 VA	No	120 V		
C	TRACK HEAD - WALL WASHER	CONTECH	CTL192H3D-S	TRACK	INTEGRAL LED	1	ELECTRONIC	1	No		SILVER	28 VA	No	120 V		
E4	LINEAR LED	NICOR	LSL-1-4-455-U-S-8	SURFACE	INTEGRAL LED	1	ELECTRONIC	1	No		WHITE	20 VA	Yes	120 V		
E4E	LINEAR LED	NICOR	LSL-1-4-455-U-S-E M8	SURFACE	INTEGRAL LED	1	N/A	1	Yes	INTEGRAL-90 MINUTE	WHITE	64 VA	Yes	120 V		NL
EM	EMERGENCY LIGHT WITH BATTERY BACK-UP	LITHONIA	ELM4L	PENDANT/SURFACE	INTEGRAL LED	2	N/A	2	Yes	INTEGRAL-90 MINUTE	WHITE	8 VA	Yes	120 V		
M	HI BAY LIGHTING	DAC LIGHTING	D5242-LED35-120-AN-COIL	PENDANT	INTEGRAL LED	1	ELECTRONIC	1	No		SILVER	12 VA	Yes	120 V		
T4	TRACK	CONTECH	SINGLE CIRCUIT TRACK - SILVER	PENDANT/SURFACE	N/A	1	N/A	No	No		SILVER	0 VA		120 V		
T5	TRACK	CONTECH	SINGLE CIRCUIT TRACK - SILVER	PENDANT/SURFACE	N/A	1	N/A	No	No		SILVER	0 VA		120 V		
T6	TRACK	CONTECH	SINGLE CIRCUIT TRACK - SILVER	PENDANT/SURFACE	N/A	1	N/A	No	No		SILVER	0 VA		120 V		
T8	TRACK	CONTECH	SINGLE CIRCUIT TRACK - SILVER	PENDANT/SURFACE	N/A	1	N/A	No	No		SILVER	0 VA		120 V		
T12	TRACK	CONTECH	SINGLE CIRCUIT TRACK - SILVER	PENDANT/SURFACE	N/A	1	N/A	No	No		SILVER	0 VA		120 V		
TW	EXTERIOR EGRESS FIXTURE	TRACE LITE	SLW-15-4K-WH-EM-NS	WALL MOUNTED	LED	2	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	10 VA	Yes	120 V	1	FURNISHED BY LL
X	EXIT SIGN	SURE-LITES	APC7RSQ	SURFACE	LED	2	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	4 VA	Yes	120 V		
XEM	EXIT SIGN EMERGENCY LIGHT COMBO WITH BATTERY BACKUP	SURE-LITES	APC7RSQ	SURFACE	LED	2	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	4 VA	Yes	120 V	1	PROVIDE WITH 90 MINUTE BATTERY BACK UP.



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ELECTRIC LIGHTING -  
DETAILS

DRAWN BY

TMG

CHECKED BY

MR

JOB NUMBER

25341

SHEET NAME

E-101

## ELECTRIC CONTACTOR SCHEDULE

NOTES:  
1) PROVIDE A MINIMUM OF (2) SPARE CONTACTS IN EACH CONTACTOR UNLESS NOTED OTHERWISE.  
2) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
3) CONTACTOR DESIGNATIONS DO NOT INDICATE QUANTITY OF CONTACTORS, THEY INDICATE CONTACTOR GROUPING(S) AND COMMON CONTROL METHODS ONLY. PROVIDE QUANTITY OF CONTACTOR(S) NEEDED TO ACCOMMODATE NUMBER OF POLES SHOWN.

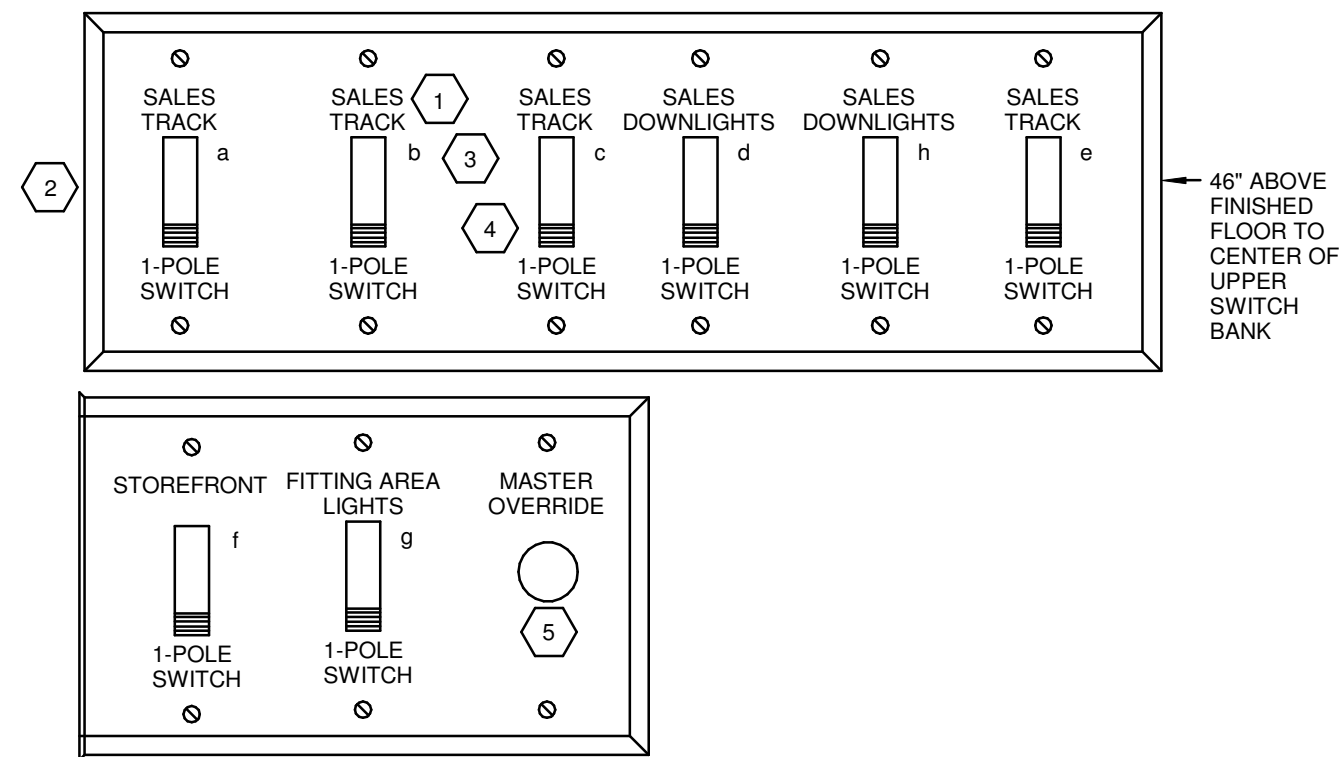
### CONTROL ZONE DESCRIPTION & CONTACTOR CONTROL METHOD

#### C1 - STOREFRONT LIGHTING

#### C2 - GENERAL LIGHTING

#### C3 - EXTERIOR LIGHTING/SIGNAGE

SUPPLY	CIRCUIT NUMBER	NUMBER OF POLES	CONTACT CURRENT	LOAD NAME
C1	11	1	2 A	(#) LTG SALES 100
C2				
P	2	1	9 A	(#) LTG SALES 100
P	4	1	7 A	(#) LTG SALES 100
P	6	1	7 A	(#) LTG SALES 100
P	7	1	1 A	(#) LTG 102, 103, 101
P	8	1	6 A	(#) LTG SALES 100
P	9	1	6 A	(#) LTG SALES 100
P	10	1	6 A	(#) LTG SALES 100
C3	18	1	10 A	(#) SIGNAGE   CONTINUOUS



### KEYED NOTES:

1. PROVIDE ENGRAVED DESCRIPTION WITH BLACK REVEAL & +/- 3/16" HIGH LETTERING (TYPICAL).
2. SEE SPECIFICATIONS FOR WALL PLATE MATERIAL, STYLE AND TYPE (TYPICAL).
3. SWITCHING DESIGNATION (TYPICAL - SHOWN FOR REFERENCE ONLY, NOT TO BE ENGRAVED).
4. TYPE OF SWITCH (TYPICAL - SHOWN FOR REFERENCE ONLY, NOT TO BE ENGRAVED).
5. PROVIDE MASTER OVERRIDE SWITCH.

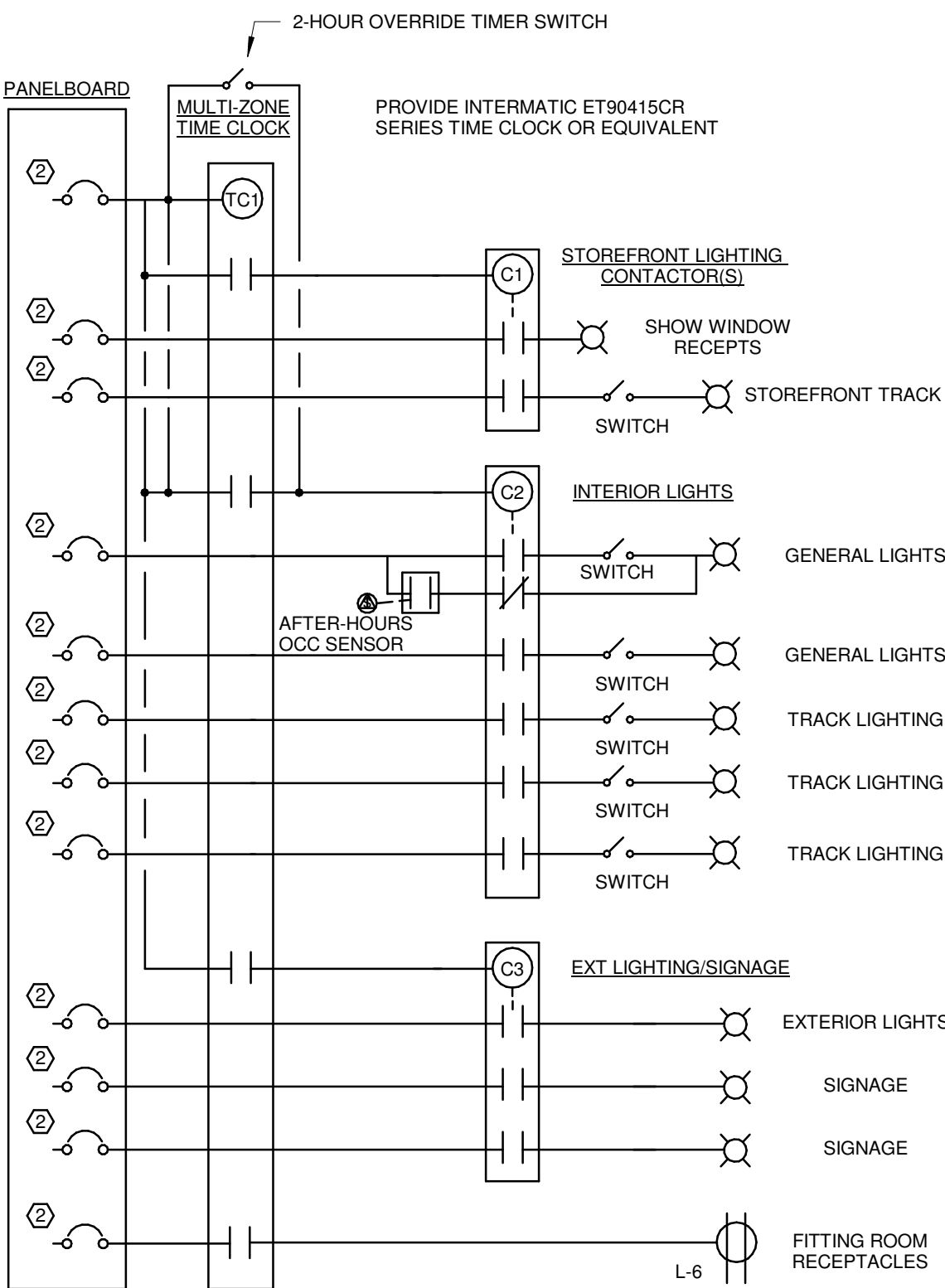
262726.00-02 - SWITCH BANK WALL PLATE DETAIL

SCALE: NONE

## ELECTRIC CURRENT LIMITER SCHEDULE

PROVIDE INTEGRAL CURRENT LIMITERS AS SPECIFIED IN THIS SCHEDULE FOR EACH CIRCUIT IN THIS SCHEDULE. ATTACH CURRENT LIMITER TO THE END OF THE TRACK, WHERE ONE CIRCUIT FEEDS MULTIPLE RUNS OF TRACK PROVIDE ALL ADDITIONAL END-FEEDS AND CONNECTORS NECESSARY SO THAT A SINGLE CURRENT LIMITER FEEDS ALL TRACK SEGMENTS ON THAT CIRCUIT.

MANUFACTURER	VOLTAGE	PANEL	FED FROM CIRCUIT	CONNECTED LOAD	EXTRA CAPACITY (%)	RATING	LOAD NAME
Juno	120 V	P	2	9.28 A	25	12.00 A	(#) LTG SALES 100
Juno	120 V	P	8	5.70 A	25	8.00 A	(#) LTG SALES 100
Juno	120 V	P	9	5.70 A	25	8.00 A	(#) LTG SALES 100
Juno	120 V	P	10	9.90 A	25	8.00 A	(#) LTG SALES 100
Juno	120 V	P	11	2.22 A	25	3.00 A	(#) LTG SALES 100



## LIGHTING CONTROL DESIGN INTENT

### STOREFRONT SIGNAGE AND EXTERIOR LIGHTING:

HARDWARE: TIMECLOCK AND CONTACTOR  
CONTROL INTENT: STOREFRONT SIGNAGE SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.

### SALES AREA DISPLAY LIGHTS:

HARDWARE: WALL MOUNTED TOGGLE SWITCHES, LIGHTING CONTACTOR, TIMECLOCK, AND TIMER SWITCH.  
CONTROL INTENT: DURING BUSINESS HOURS (HOURS PROGRAMMED INTO TIMECLOCK) THE DISPLAY LIGHTS AND TRACK LIGHTING SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.  
THE TIMER SWITCH SHALL OVERRIDE THE TIMECLOCK SCHEDULING (FOR A MAXIMUM OF 2-HOURS) AND ALLOW FOR AFTER HOURS CONTROL OF THE LIGHTING.

### SALES AREA GENERAL LIGHTING:

HARDWARE: WALL MOUNTED TOGGLE SWITCHES, TIMECLOCK, TIMER SWITCH, AND OCCUPANCY SENSOR.  
CONTROL INTENT: DURING BUSINESS HOURS (HOURS PROGRAMMED INTO TIMECLOCK) THE SALES AREA GENERAL LIGHTING SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.  
THE TIMER SWITCH SHALL OVERRIDE THE TIMECLOCK SCHEDULING (FOR A MAXIMUM OF 2-HOURS) AND ALLOW FOR AFTER HOURS CONTROL OF THE LIGHTING. OCCUPANCY SENSORS SHALL ALLOW FOR AFTER HOURS GENERAL LIGHTING OVERRIDE WHENEVER THE CONTACTOR IS OFF.

### STOREFRONT LIGHTING AND RECEPTACLES:

HARDWARE: WALL MOUNTED TOGGLE SWITCH, LIGHTING CONTACTOR(S), AND TIMECLOCK.  
CONTROL INTENT: STOREFRONT LIGHTING, RECEPTACLES AND SIGNAGE SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.

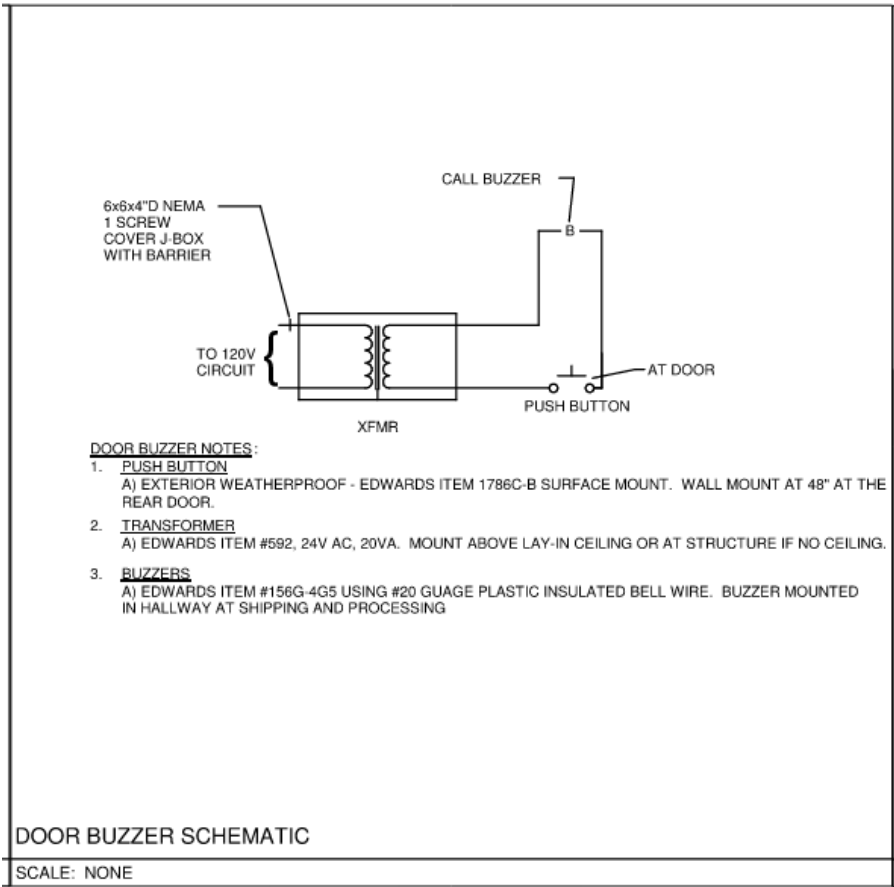
### KEYED NOTES:

1. PROVIDE TIME-BASED CONTROL FOR APPLICABLE CIRCUITS AS DEFINED ON TIMECLOCK SCHEDULE.
2. PROVIDE CONTACTOR CONTROL FOR APPLICABLE CIRCUITS AS DEFINED ON LIGHTING CONTACTOR SCHEDULE.

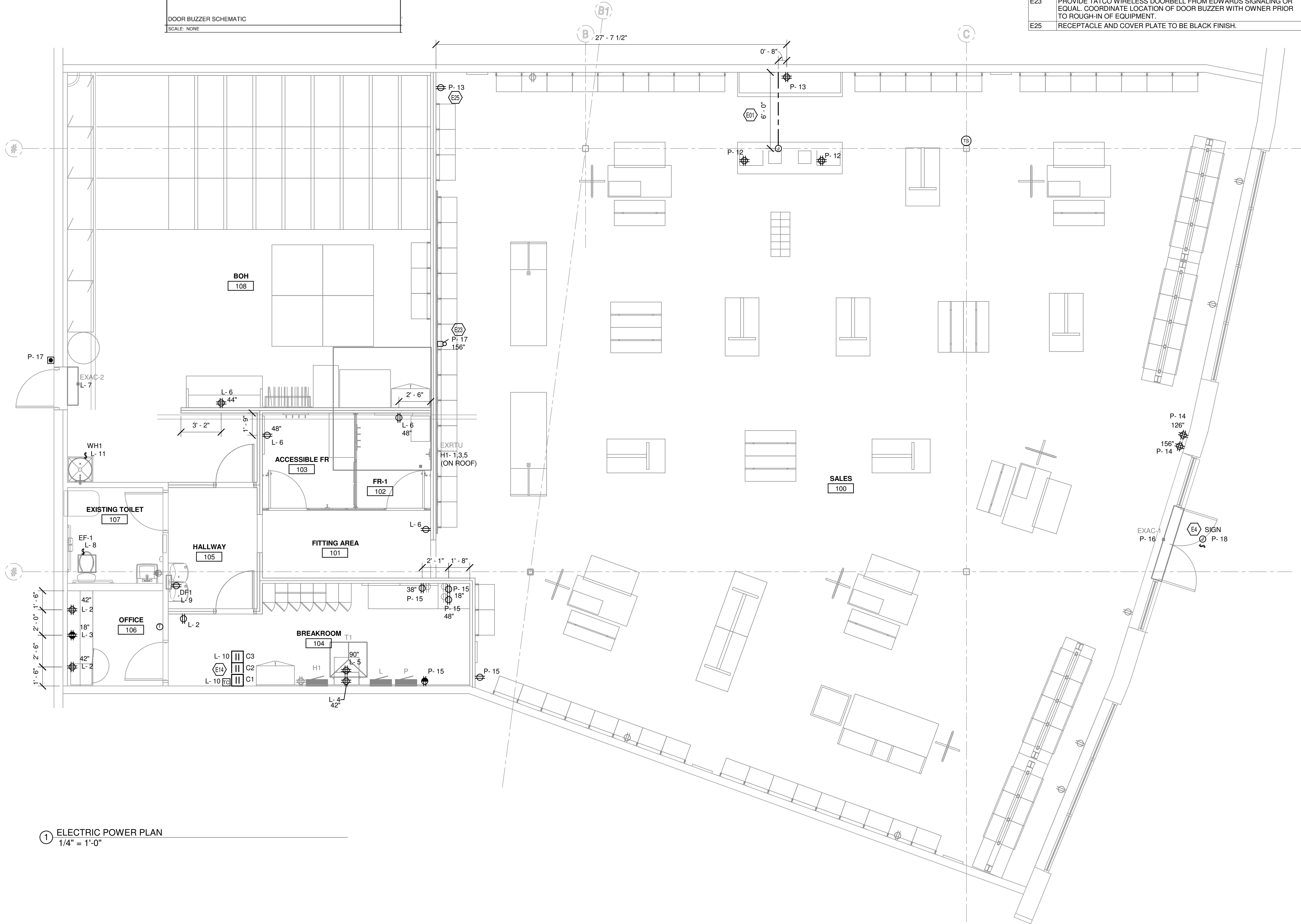
265100.00-17 - LIGHTING CONTROL

SCALE: NONE





KEYED NOTES	
E01	PROVIDE (2) 1" CONDUITS FOR POWER, (1) 1-1/2" CONDUIT FOR DATA UNDER SLAB AND STUB-UP IN CASHWRAP. CONDUITS SHALL BE ROUTED IN A COMMON TRENCH. COORDINATE SLAB CUTTING REQUIREMENTS (IE. X-RAY, ETC.) 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).
E14	PROVIDE NEW OSEEC COMPLIANT 7-DAY 24-HOUR ASTRONOMICAL TIME CLOCK WITH HOLIDAY SCHEDULING. MOUNT TO WALL NEXT TO PANEL WITH CONTACTORS INDICATED. REFER TO CONTACTOR SCHEDULES ON SHEET E-1.0 FOR MORE INFORMATION.
E23	PROVIDE TATCO WIRELESS DOORBELL FROM EDWARDS SIGNALING OR EQUAL. COORDINATE LOCATION OF DOOR BUZZER WITH OWNER PRIOR TO ROUGH-IN OF EQUIPMENT.
E25	RECEPTACLE AND COVER PLATE TO BE BLACK FINISH.



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**carhartt**

ALAMO QUARRY MARKET  
7322 JONES  
MALTSBERGER RD #112,  
SAN ANTONIO, TX 78209

ELECTRIC POWER PLAN

DRAWN BY	TMG
CHECKED BY	MR
JOB NUMBER	25341
SHEET NAME	E-200

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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 - 480Y/277V, L - 208Y/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		LUGS TYPE	SPD	ULSE	GEC	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
H1	Existing	104	BREAKROOM	LL	NORMAL	Branch Panelboard	480	3		4	52717 VA	63 A	400	400	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE						NEMA 1	29587	EXISTING	
L	Existing	104	BREAKROOM	P	NORMAL	Branch Panelboard	208	3		4	8378 VA	23 A	100	100	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE						NEMA 1	10238	EXISTING	
P	Existing	104	BREAKROOM	T1	NORMAL	Branch Panelboard	208	3		4	20148 VA	56 A	200	200	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE						NEMA 1	10644	EXISTING	



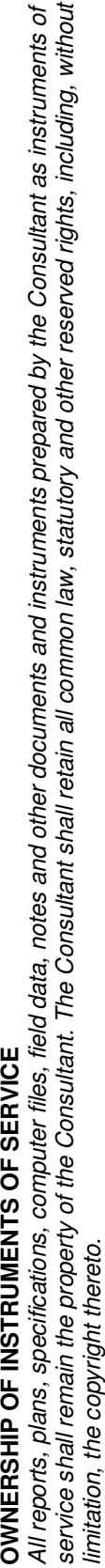
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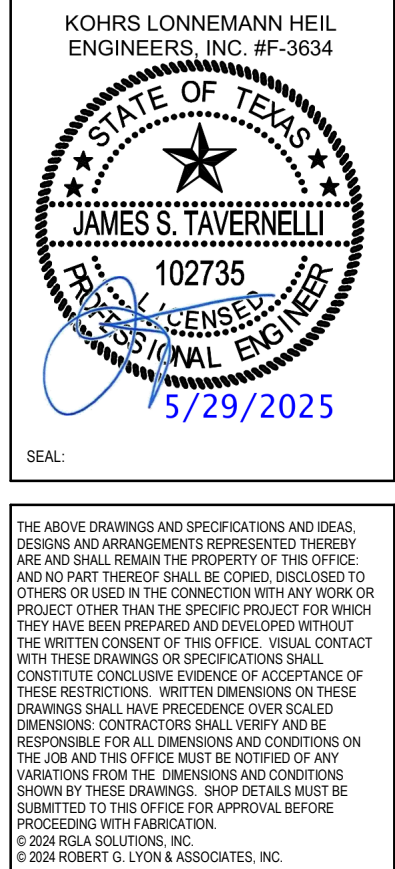
ELECTRIC EQUIPMENT SUPPLY SCHEDULE														
EQUIPMENT MARK	SUPPLY FROM	CKT	EMERG.	LOAD (KVA)	AVAILABLE FAULT CURRENT	VOLTS	POLE	HTG KW	WATT	HP	FLA (A)	MCA (A)	RCD CCP (A)	BREAKER RATING (A)
DF1	L	9		0.72	2114	120 V	1				6			20
EF-1	L	8	NO	0.40	1608	120 V	1				0.29	0.4	15	15
WH1	L	11		2.50	2097	120 V	1	2.5						30

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	MG	MAGNETIC STARTER OR CONTACT	BAS	BUILDING AUTOMATION SYSTEM																			
CN	CONTRACTOR	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 REQUIRED?	AVAILABLE FAULT CURRENT
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	1608
EXAC-1	AIR CURTAIN W/NO HEAT	120 V	1	NO		666						EX	--	--	--	EX	--	--	--	EX	--	--	EX	NONE	No	890
EXAC-2	AIR CURTAIN W/NO HEAT	120 V	1	NO		329						EX	--	--	--	EX	--	--	--	EX	--	--	EX	NONE	No	1252
EXRTU	PACKAGED ROOFTOP UNIT, GAS HEAT	480 V	3	NO					35	45		EX	--	--	--	EX	--	--	--	LOW	HC	HC	HC	NONE	Yes	9389

ABBREVIATIONS					CONTRACTOR TYPE					MOTOR CONTROL TYPE					CONTROL TYPE					SHORT CIRCUIT RATING					
DC	LOCAL DISCONNECT	EC	EXISTING	ECC	ELECTRICAL CONTRACTOR	CS	COMBINATION STARTER	TC	TIMECLOCK	WHERE SHORT CIRCUIT RATING CODE															
MC	MOTOR CONTROL (POWER)	EX	EXISTING	MC	MOTOR CONTROL CONTRACTOR	MS	MOTOR CONTROL STARTER	CPT	CONTROL POWER TRANSFORMER	REQUIRED VALUE INDICATES "YES"															
SD	DUCT SMOKE DETECTOR	GC	GENERAL CONTRACTOR	MG	MAGNETIC STARTER OR CONTACT	MS	MANUAL STARTER	BS	BUILDING AUTOMATION SYSTEM	APPLICABLE EQUIPMENT'S SHORT CIRCUIT															
CN	CONTROLS	HC	HVAC CONTRACTOR	MS	MANUAL STARTER	VFD	VARIABLE FREQUENCY DRIVE	LOW	LOW VOLTAGE CONTROLS	RATING SHALL EXCEED THE AVAILABLE FAULT															
TS	TOGGLE SWITCH	MFR	MANUFACTURER	OV	OVERCURRENT PROTECTION	LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL	CURRENT VALUE INDICATED.															
C/B	H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD	PC	PLUMBING CONTRACTOR	OV	OVERCURRENT PROTECTION	LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
FUSE	FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)	OR	OWNER OR OTHERS			LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
FLA	OPERATING FULL LOAD AMPS					LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
MCA	MINIMUM CIRCUIT AMPCITY					LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
CP	CORD AND PLUG CONNECTION					LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
[BLANK]	HARD WIRED (WHEN INDICATED FOR DC TYPE)					LINE	LINE VOLTAGE CONTROLS	MAN	MANUAL																
CONNECTION MARK	DESCRIPTION	VOLTAGE	PHASE	EMERGENCY	HP	WATTS	HTG KW	FLA	MCA	OCF	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	SHORT CIRCUIT RATING CODE REQUIRED?	AVAILABLE FAULT CURRENT
DF1	DRINKING FOUNTAIN	120 V	1					6				DC	EC	EC	EC	MG	MFR	MFR	MFR	MAN	MFR	MFR	MFR	No	2114
WH1	TANK TYPE ELECTRIC WATER HEATER	120 V	1				2.5					DC	EC	EC	EX	--	--	--	--	INT	MFR	MFR	MFR	No	2097



ELECTRIC FEEDER SCHEDULE									
NOTES: ALL CONDUIT SIZES INDICATED ARE MINIMUM SIZES. INCREASE SIZES AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD CONNECTIONS, ETC.  "CU" = COPPER CONDUCTOR "AL" = ALUMINUM CONDUCTOR  ** WHERE THESE FIELDS ARE BLANK, PROVIDE INSULATION AND CONDUIT MATERIAL PER THE CONDUIT & WIRE MATERIAL SCHEDULE.		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 = PARTIALLY SIZED EQUIPMENT GROUND CONDUCTOR X = EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED T = UPSIZED GROUND CONDUCTORS FOR TRANSFORMER SECONDARY 2 - CONDUCTOR CAPACITY 3 - TOTAL NUMBER OF PHASE AND GROUND ("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	INSULATION **	CONDUIT**	DEMAND (A)	VD %	NOTES	
UT1	UT1	X400	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			63 A	0.06		
--- LL	UT1	X400	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			63 A	0.179		
--- H1	UT1	X400	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			63 A	0.179		
--- H1	X225	X225	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			56 A	0.163		
--- P	T1	X225	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			56 A	0.214		
--- L	P1	X100	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			23 A	0.22		



## ELECTRIC POWER - SINGLE LINE DIAGRAM

DRAWN BY
TMG
CHECKED BY
MR
JOB NUMBER
25341
SHEET NAME
E-300



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PANEL NAME: H1															PHASE: Existing														
SUPPLY FROM: LL					MAINS RATING (A): 400					FAULT CURRENT (A): 29587					SURGE SUPPRESSION:														
LOCATION: BREAKROOM 104					MAINS TYPE: THERMAL MAGNETIC					SHORT CIRCUIT RATING (A): EXISTING					ULISE:														
DISTRIBUTION SYSTEM: 480/277V 3PH 4W					FEEDER ID: X400					LUGS TYPE:					200% NEUTRAL:														
FEEDER: EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE										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											8.73	5.11												2					
3	EXRTU				0.279	#6	#10	45 A	45 A	3		8.73	5.45		3	225 A	225 A	SL	SL	SL	(EX) T1				4				
5													8.73	6.84											6				
7	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				8				
9	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				10				
11	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				12				
13	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				14				
15	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				16				
17	(EX) SPACE				--	--	--	--	--	1	--	--		--	1	--	--	--	--	--	(EX) SPACE				18				
19	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				20				
21	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				22				
23	(EX) SPACE				--	--	--	--	--	1	--	--		--	1	--	--	--	--	--	(EX) SPACE				24				
25	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				26				
27	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				28				
29	(EX) SPACE				--	--	--	--	--	1	--	--		--	1	--	--	--	--	--	(EX) SPACE				30				
31	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				32				
33	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				34				
35	(EX) SPACE				--	--	--	--	--	1	--	--		--	1	--	--	--	--	--	(EX) SPACE				36				
37	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				38				
39	(EX) SPACE				--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	(EX) SPACE				40				
41	(EX) SPACE				--	--	--	--	--	1	--	--			1	--	--	--	--	--	(EX) SPACE				42				
TOTAL CONNECTED LOAD:											13.8 kVA			14.2 kVA			15.6 kVA												
LOAD CLASSIFICATION		CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			PANEL TOTALS																		
Continuous		4420 VA			125.00%			5525 VA			EXISTING CONNECTED LOAD:																		
Cooling		0 VA			0.00%			0 VA			EXISTING LOAD DEMAND FACTOR:																		
Elevator		0 VA			0.00%			0 VA			ADDED CONNECTED LOAD:																		
Heating		0 VA			0.00%			0 VA			DEMAND CALCULATION NOTES:																		
Kitchen Equipment		0 VA			0.00%			0 VA																					
Lighting		5910 VA			125.00%			7387 VA			TOTAL DEMAND:																		
Motor		27218 VA			124.05%			33765 VA			52716.9 VA																		
Non-Continuous		280 VA			100.00%			280 VA																					
Receptacle		5760 VA			100.00%			5760 VA			TOTAL DEMAND AMPS: 63 A																		
NOTES:											BREAKER QUANTITIES (NEW ONLY)																		
											(1) 45A / 3P																		

PANEL NAME: L											PHASE: Existing															
SUPPLY FROM: P				BUSSING: COPPER OR ALUMINUM				MOUNTING: SURFACE				SURGE SUPPRESSION:														
LOCATION: BREAKROOM 104				MAINS RATING (A): 100				FAULT CURRENT (A): 10238				ULSE:														
DISTRIBUTION SYSTEM: 208/120V 3PH 4W				MAINS TYPE: THERMAL MAGNETIC				SHORT CIRCUIT RATING (A): EXISTING				200% NEUTRAL:														
FEEDER: EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE				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	(H) LTG 108, 107, 105, 106, 104			0.185	#12	#12	20 A	20 A	1	0.66	0.90			1	20 A	20 A	#12	#12	0.644	(H) RCPT OFFICE 106			2			
3	(H) RCPT OFFICE 106			0.319	#12	#12	20 A	20 A	1			0.36	0.36		1	20 A	20 A	#12	#12	0.033	(H) RCPT BREAKROOM 104			4		
5	RCPT BREAKROOM 104			0.063	#12	#12	20 A	20 A	1				0.36	0.90	1	20 A	20 A	#12	#12	0.482	(H) RCPT 103, 101, 102			6		
7	EXAC-2			0.469	#12	#12	20 A	20 A	1	0.33	0.04				1	15 A	15 A	#12	#12	0.037	EF-1   EXISTING TOILET 107			8		
9	(G) DF1   HALLWAY 105			0.551	#12	#12	20 A	20 A	1		0.72	0.20			1	20 A	20 A	#12	#12	0.064	(H) C1 C2 C3   BREAKROOM 104			10		
11	WH1   BOH 108			1.931	#10	#10	30 A	30 A	1				2.50	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			12		
13	(EX) SPARE			--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			14			
15	(EX) SPARE			--	--	--	20 A	20 A	1			0.00	0.00		1	20 A	20 A	--	--	--	(EX) SPARE			16		
17	(EX) SPARE			--	--	--	20 A	20 A	1				0.00	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			18		
19	(EX) SPARE			--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			20			
21	(EX) SPARE			--	--	--	20 A	20 A	1			0.00	0.00		1	20 A	20 A	--	--	--	(EX) SPARE			22		
23	(EX) SPARE			--	--	--	20 A	20 A	1				0.00	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			24		
25	(EX) SPARE			--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			26			
27	(EX) SPARE			--	--	--	20 A	20 A	1		0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			28		
29	(EX) SPARE			--	--	--	20 A	20 A	1				0.00	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			30		
31	(EX) SPARE			--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			32			
33	(EX) SPARE			--	--	--	20 A	20 A	1			0.00	0.00		1	20 A	20 A	--	--	--	(EX) SPARE			34		
35	(EX) SPARE			--	--	--	20 A	20 A	1				0.00	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			36		
37	(EX) SPARE			--	--	--	20 A	20 A	1	0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			38			
39	(EX) SPARE			--	--	--	20 A	20 A	1		0.00	0.00			1	20 A	20 A	--	--	--	(EX) SPARE			40		
41	(EX)(L) FIRE ALARM			--	--	--	20 A	20 A	1				0.00	0.00	1	20 A	20 A	--	--	--	(EX) SPARE			42		
TOTAL CONNECTED LOAD:											1.9 kVA		1.6 kVA		3.8 kVA							BREAKER QUANTITIES (NEW ONLY)				
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		NOTES:		(1) 15A / 1P, (1) 20A / 1P, (1) 20A / 1P(G), (1) 30A / 1P																
PANEL TOTALS																										
TOTAL CONNECTED LOAD:											7.3 kVA															
DEMAND CALCULATION NOTES:																										
TOTAL DEMAND:											8.4 kVA															
TOTAL DEMAND AMPS:											23 A															





COMcheck Software Version COMcheckWeb  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC  
Project Title: CARHARTT - QUARRY CROSSING  
Project Type: Alteration

Construction Site: 7322 JONESMALTSBERGER RD # 112  
SAN ANTONIO, TX 78209  
Owner/Agent: Designer/Contractor: KLH Engineers  
1538 Alexandria Pike  
Fort Thomas, KY 41075

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-BREAKROOM (Common Space Types:Atrium) (Ceiling Height 10 ft.)	175	0.48	84
2-ACCESSIBLE FR (Common Space Types:Atrium) (Ceiling Height 10 ft.)	54	0.48	26
3-HALLWAY (Common Space Types:Atrium) (Ceiling Height 10 ft.)	62	0.48	30
4-EXISTING TOILET (Common Space Types:Atrium) (Ceiling Height 10 ft.)	57	0.48	27
5-OFFICE (Common Space Types:Atrium) (Ceiling Height 10 ft.)	56	0.48	27
6-SALES (Common Space Types:Atrium) (Ceiling Height 10 ft.)	3335	0.48	1601
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: A	500 (a)	1.05	525 (b)
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: Track lighting <not circuited>	950 (a)	1.05	720 (b)
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: Track lighting <not circuited>	680 (a)	1.05	714 (b)
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: Track lighting <not circuited>	1500 (a)	1.05	1200 (b)
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: Track lighting <not circuited>	800 (a)	1.05	720 (b)
7-BOH (Common Space Types:Atrium) (Ceiling Height 10 ft.)	805	0.48	386
8-FR-1 (Common Space Types:Atrium) (Ceiling Height 10 ft.)	38	0.48	18
9-FITTING AREA (Common Space Types:Atrium) (Ceiling Height 10 ft.)	67	0.48	32

(a) Area claimed may exceed total floor area when Retail Merchandise Highlighting allowance(s) are specified.  
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Proposed Power section, whichever is less.  
(c) Supplemental watts must be associated with retail merchandise highlighting fixtures.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
BREAKROOM (Common Space Types:Atrium, 175 sq.ft.)				
E: E: LINEAR LED: Other:	1	3	20	60
E: E: LINEAR LED: Other:	1	1	64	64
ACCESSIBLE FR (Common Space Types: Atrium, 54 sq.ft.)				
M: M: HI BAY LIGHTING: Other:	1	1	12	12
HALLWAY (Common Space Types: Atrium, 62 sq.ft.)				

Project Title: CARHARTT - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 1 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22] <sup>1</sup>	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.
C405.2.1.1 [EL18] <sup>1</sup>	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, corridors, 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.
C405.2.1.2 [EL19] <sup>1</sup>	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 within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleyway independently and do not control lighting beyond the aisleyway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.2.1.3 [EL20] <sup>1</sup>	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) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.2.2.1 [EL21] <sup>1</sup>	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	<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: CARHARTT - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 4 of 6

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
E: E: LINEAR LED: Other:	1	1	64	64
EXISTING TOILET (Common Space Types: Atrium, 57 sq.ft.)				
E: E: LINEAR LED: Other:	1	1	64	64
OFFICE (Common Space Types: Atrium, 56 sq.ft.)				
E: E: LINEAR LED: Other:	1	1	64	64
SALES (Common Space Types: Atrium, 3335 sq.ft.)				
A: A: HI BAY LIGHTING: Other:	1	20	81	1620
Track lighting <not circuited>: Wattage based on current limiting device capacity	0	0	360	360
Track lighting <not circuited>: Wattage based on current limiting device capacity	0	0	720	720
Track lighting <not circuited>: Wattage based on current limiting device capacity	0	0	720	720
Track lighting <not circuited>: Wattage based on current limiting device capacity	0	0	1200	1200
Track lighting <not circuited>: Wattage based on current limiting device capacity	0	0	720	720
BOH (Common Space Types: Atrium, 805 sq.ft.)				
E: E: LINEAR LED: Other:	1	10	20	200
E: E: LINEAR LED: Other:	1	3	64	192
FR-1 (Common Space Types: Atrium, 38 sq.ft.)				
M: M: HI BAY LIGHTING: Other:	1	1	12	12
FITTING AREA (Common Space Types: Atrium, 67 sq.ft.)				
M: M: HI BAY LIGHTING: Other:	1	2	12	24
Total Proposed Watts = 6096				

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 2021 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 - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 2 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4.1 [EL23] <sup>1</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.1 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	<b>Exception:</b> Requirement does not apply.
C405.2.5 [EL27] <sup>1</sup>	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.
C405.7 [EL26] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C405.8 [EL27] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C405.9.1 [EL28] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C405.10 [EL29] <sup>1</sup>	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.
C405.1.1 [EL30] <sup>1</sup>	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.11.1 [EL31] <sup>1</sup>	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	<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 - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 5 of 6



COMcheck Software Version COMcheckWeb  
Inspection Checklist

Energy Code: 2021 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] <sup>1</sup>	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: CARHARTT - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 3 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C302.3.2 [F17] <sup>1</sup>	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.
C408.1.1 [F157] <sup>1</sup>	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 [F16] <sup>1</sup>	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] <sup>1</sup>	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: CARHARTT - QUARRY CROSSING  
Data filename: Report date: 05/20/25  
Page 6 of 6



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MECHANICAL/ELECTRICAL ENGINEERS  
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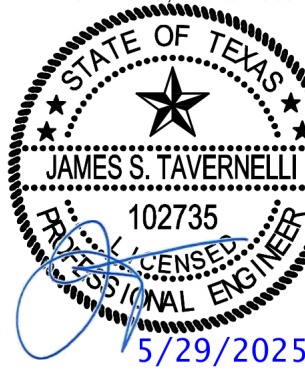
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carhartt

ALAMO QUARRY MARKET  
7322 JONES  
MALTSBERGER RD #112,  
SAN ANTONIO, TX 78209

ENERGY COMPLIANCE

DRAWN BY

TMG

CHECKED BY

MR

JOB NUMBER

25341

SHEET NAME

E-400



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 all 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. Noted dimensions convey desired locations for devices. Coordinate with owner representative on site prior to deviating from noted dimensions for any reason. When 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". Whenever 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 finished 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.

Obtain the latest Owner's 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, unless prevailing codes and regulations mandate otherwise.

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 maintenance books, instruction books and parts list 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 where 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, Tan&B Stakon or approved equal. The conductors terminating at each wired outlet shall be left not less than 8" long at their outlet fittings to facilitate installation of devices or luminaires. Friction and rubber tape conform to Federal Specifications HH-T-11 and NH-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, fire, 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 white in color, and for otherwise-colored roof 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 after completion of construction. Do not install pull boxes or junction boxes above gypsum board or similar interior finish unless fire-rated or smoke-rated. Provide nominal 1/2" clearance 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 For exposed runs of cables down walls to surface mounted panelboards, provide partition chase walls (constructed in a manner approved by architect), or within appropriately sized steel wireway(s), or within a custom fabricated heavy-gage painted sheetmetal chase approved in advance by the engineer. Install in a manner that fully conceals cables, prevents overheating of cables, and is approved by the local authority having jurisdiction.

26 05 03.00 - SUBMITTALS FOR ELECTRICAL SYSTEMS

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 standalone 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 with editable fields and specification compliant appearance is available from K.L.H. upon request. It is also downloadable from the K.L.H. 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. 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 (02 – 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 <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>

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 THHN/THWN-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 800 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 partly-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 work 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 terminals. 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-8000 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 minimum clearance 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 For exposed runs of cables down walls to surface mounted panelboards, provide partition chase walls (constructed in a manner approved by architect), or within appropriately sized steel wireway(s), or within a custom fabricated heavy-gage painted sheetmetal chase approved in advance by the engineer. Install in a manner that fully conceals cables, prevents overheating of cables, and is approved by the local authority having jurisdiction.

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. At 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, conductors, 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 material 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 roof/wall-mounted equipment anchors to allow for resilient media 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, equipment, 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, the 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.

Plywood Equipment Boards: Lumber shall be preservative treated in accordance with AWPA B LP-2, and kiln dried to a moisture content of not more than 19 percent. Provide plywood panels, APA C-D PLUGGED INT, with exterior glue, thickness as indicated, or if 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" clearance for cable runs between plywood and wall. Maintain at least 4 inches from bottom of plywood equipment boards and the finished floor surface. Unless directed otherwise in field, plywood equipment 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 all other applications.

26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

Provide manufacturers standard self-adhesive vinyl tape not less than 3 mils thick by 1-1/2" wide. 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 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)  
480Y/277V System: Brown, Orange, Yellow and Gray (neutral)  
Equipment Grounding: Green  
Systems: To match existing where applicable - verify in field.

Provide engraved plastic-laminate sign on major units of electrical equipment, including panelboards, disconnects, starters, 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, via 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.

Emergency Systems: Provide permanent identification for boxes, enclosures, etc. that are associated with emergency system wiring. Paint and identify emergency system pull boxes, junction boxes, and other access/pull points (boxes and covers). Provide emergency system equipment panelboards, cabinets, enclosures, etc. with engraved nameplates (white letters on red background) with the first line of text to read "EMERGENCY CIRCUITS" and the remaining lines to include the necessary descriptive text. Properly identify system components, wiring, cabling, and terminals. Provide red color on jacket of all emergency system cables. Provide red-colored breaker handle and red-colored lock-on device at source circuit breakers that feed emergency systems.

Provide red coloring for all Emergency system junction boxes, along with identification.

Legally-Required Standby Systems: Provide permanent identification for boxes, enclosures, etc. that are associated with Legally-Required Standby system work. Paint and identify Legally-Required Standby system pull boxes, junction boxes, and other access/pull points (boxes and covers). Provide Legally-Required Standby system equipment panelboards, cabinets, enclosures, etc. with engraved nameplates (white letters on red background) with the first line of text to read "LEGALLY-REQUIRED STANDBY CIRCUITS" and the remaining lines to include the necessary descriptive text. Properly identify system components, wiring, cabling, and terminals. Provide red color on jacket of all Legally-Required Standby system cables. Provide red-colored breaker handle and red-colored lock-on device at source circuit breakers that feed Legally-Required Standby system junction boxes, along with identification.

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 raceway, wiring, connections, and terminations for power and interlocks for electrically operated equipment.

Provide disconnect switch ahead of all equipment, including controls, 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 LISCO 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 exact electrically related 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. 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. Install local disconnects and starters at 48 inches to top of outlet box or enclosure where applicable above finished floor/slab/grade. Provide flush mounted units in finished areas. Provide key operated manual starters 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.

Commercial Kitchen Exhaust Hoods and Related Fan Equipment: Refer to detail(s) on drawings. Refer to food service drawings, food service specifications and manufacturer's submittals for specific information. Field-coordinate work with affected entities.

Note that multiple kitchen hoods may exist, and any single hood shown may actually consist of multiple sections. Provide electrical work for hoods as required to render them and ancillary systems/controllers fully operational. Provide power wiring and connections to line side of factory disconnect switches for fan units.

Provide interlock wiring and connections to and from the various equipment and controls. Provide control wiring from the fan units to respective remote dust stats. Provide control wiring to and from dust heat sensors. Provide 120V, single-phase, 2-wire, 20 ampere wiring and connections to the indoor hood bodies for factory hood lights and for control circuits. Provide control wiring from the indoor hood bodies to respective fan units. Provide 120V, 2-wire (#12 AWG) control wiring connections from indoor hood bodies to contacts on factory micro-switch in respective hood fire suppression system.

Provide control circuit wiring from the factory micro-switch in the hood fire suppression systems to respective dedicated fire alarm system monitor modules to initiate alarm signal when respective hood fire protection system is activated. Provide auxiliary control circuit wiring from the factory micro-switch in the hood fire suppression system to contactor control coil(s). Provide surface mounted empty octagon box for hood fire suppression system manual activation station. Provide for each hood fire suppression system installed. Install at 48" to top of outlet box above finished floor and provide (1) surface mounted, straight 1/2" empty conduit (no bends) from box to above accessible ceiling unless otherwise directed by the fire suppression installer. Install box near means of egress, between 10 and 20 feet from the cooking area. Final locations shall be determined by fire suppression system installer, coordinate in field. Provide interlock control wiring between gas solenoid shut off valves and respective kitchen hood fire suppression system. Coordinate with affected installers.

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.

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 (case by case) 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 pull-up box and 1/2 inch deep wall outlet box in empty conduit from each location, turned out above accessible ceilings (in



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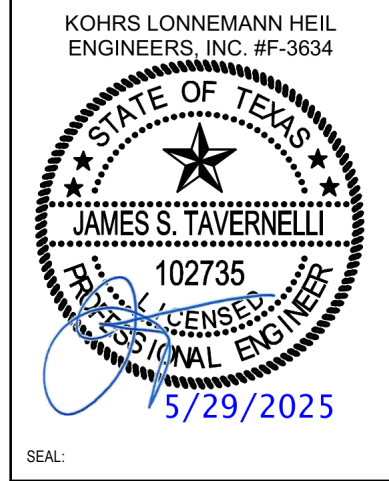
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7322 JONES  
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ELECTRICAL SPECIFICATIONS

DRAWN BY  
TMG

CHECKED BY  
MR

JOB NUMBER  
25341

SHEET NAME  
E-500



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joist 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 46 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.

Motor Operated Dampers: Provide wiring associated with interlock of motors to associated motor dampers. Provide local disconnect at each motor damper if fan is not furnished with one. Where HVAC equipment or exhaust fans are controlled by VFC/VFD units, wire motor operated dampers (MOD's) back to the respective VFC/VFD unit separately from the respective exhaust fan power wiring, with (2) #12 AWG in 3/4 inch conduit. Provide local disconnect for each such MOD.

#### 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/timer-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-BA\*94 series) for tungsten lighting loads, ballast lighting loads, and small resistance 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 or 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 reset, designed to fit conventional toggle switch openings.

Wall-Box Dimmers  
Provide dimmer switches equal to Leviton #TSL06 series in configurations shown on the drawings. Dimmer shall be compatible with the light fixtures controlled, specification grade, full dimming range. DO not break off side heat-sink sections when ganging dimmers. Modular, full wave, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters.

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. Verify zone control requirements in field prior to rough-in. Provide 100-hour carryover. Provide Ethernet module.

Occupancy Sensors, Passive Infrared Wall Switches: Provide Wattstopper PW-100 wall switch (or equivalent) and configure as manual on, auto off (vacancy sensor) unless otherwise specified on drawings. Provide with time delay as specified on drawings. If no time delay is specified, program to 10 minutes.

Occupancy Sensors, Dual Technology Wall Switches: Provide Wattstopper DW-100 wall switch (or equivalent) and configure as manual on, auto off (vacancy sensor) unless otherwise specified on drawings. Provide with time delay as specified on drawings. If no time delay is specified, program to 10 minutes.

Occupancy Sensors, Dual Technology Ceiling Sensors: Provide Wattstopper DT-300 ceiling mounted occupancy sensor (or equivalent). Provide with time delay as specified on drawings. If no time delay is specified, program to 20 minutes. Adjust sensitivity based on field conditions and occupancy of room to provide 100% coverage without nuisance tripping. Provide Wattstopper BZ-150 universal voltage pack(s) as required to properly power all occupancy sensors and provide switching per the design intent. In areas where multiple occupancy sensors control a single zone together, interlock occupancy sensors/power packs per manufacturer instructions to meet control intent.

#### 26 27 26.00 - WIRING DEVICES

Submittal Requirements  
Product Data  
For each type include electrical characteristics, configurations, ratings, markings, colors, etc.

Unless specifically indicated otherwise, or directed otherwise in field, coordinate finishes for wiring devices with architect and owner prior to ordering. Where applicable, devices on different branches of power shall be a different color.

Provide grounded ("neutral") conductors in all wall switch, dimmer and other lighting control outlet boxes, even if not immediately utilized.

Provide wall plates with engraved legends where indicated on drawings and/or where required by 26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS Section. All device wall plates shall be standard size; "midway", "oversized" ("jumbo") or "extra deep" wall plates shall not be acceptable. Construct with metal screws for securing plates to devices; screw heads colored to match finish of plates. Except where/if indicated otherwise on drawings, wall plates in finished areas shall be commercial specification grade, satin finish stainless steel, with beveled edges, equal to Leviton Type 430 series. Wall plates in unfinished areas shall be galvanized steel unless otherwise noted. Refer to architectural finish schedules and owner representative for additional information.

Wall-Box Type Lighting Controls:  
Refer to specification 260923.00 – Local Lighting Controls for types not listed here.

Toggle Switches:  
Provide toggle switches equal to Leviton #122x-2 series in configurations shown on the drawings. Provide switches that are flush, self-grounding with green ground screw, back and side wired, and specification grade. 120/277V, 20A, AC quiet type.

Decorator Style Switches:  
Provide decora style switches equal to Leviton #560x-2 series in configurations shown on the drawings. Provide switches that are flush,

self-grounding with green ground screw, and specification grade. 120/277V, 15A, AC quiet type.

#### Receptacles:

Special purpose receptacles shall be of the size, type and manufacturer as indicated on the plans or as determined in field.

Weather Resistant (WR) GFCI Receptacles: Provide for all receptacles installed in damp or wet locations. Any receptacle shown on the drawings with "WR/GFCI" next to it denoting exterior cover shall be installed with a WR GFCI receptacle. Provide duplex weather resistant receptacles equal to Leviton # W7899 series. Provide Weather-Resistant Receptacles with UL "WR" marking. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents.

Duplex and Single Specification Grade Receptacles: 2-pole, 3-wire grounding, self-grounding, green grounding screw, ground lugs and poles internally connected to mounting yoke, color coded base, 20-ampere, 125-volts, with metal plaster ears, back and side wiring, NEMA configuration 5-20R. Provide duplex receptacles equal to Leviton #5362 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Provide receptacles equal to Leviton #5361 series for simplex (single) applications. Provide clock hanger receptacles equal to Leviton #5361-CH.

Self-Grounding Commercial Specification grade, Duplex Receptacles, Ground-Fault Circuit Interrupters: Feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL-rated 943, Class A, Group 1, specification grade, 20-ampere rating (device and feed-thru), 125-volts, 60 Hz, with solid-state ground-fault sensing and signaling (maximum threshold of 5mA at 0.025 seconds maximum); equip with 20-ampere pump configuration, NEMA 5-20R. Provide ground fault circuit interrupter duplex receptacles equal to Leviton #8898 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Where GFCI protected receptacles are shown on drawings, provide a separate GFCI receptacle for each one shown. Do not feed downstream receptacles from load-side (GFCI-protected) terminals of upstream receptacles.

#### 26 51 00.00 - LIGHTING

Submittal Requirements  
Product Data  
For each type include detailed product information, light source, color temperature, color rendering index, lumen outputs, life, driver manufacturer, model and type, ceiling connection details, integral controls as applicable, drawings of custom fixtures or components, wiring diagrams, warranty, etc. Arrange luminaire submittals in booklet form with separate sheets for each luminaire, assembled by luminaire "type" in alphabetical order.

All recessed luminaires shall be equipped with necessary plaster frames and surface trim.

All junction boxes and serviceable components for recessed luminaires shall be readily accessible for service or replacement from below the ceiling, without removing any ceiling components (other than tiles).

All luminaires utilized for emergency and/or egress lighting shall be connected ahead of switching. All drivers of the same type shall be of the same manufacturer and catalog number. All LED modules of the same type shall be of the same manufacturer and catalog number.

Light Emitting Diode (LED) Systems: Provide factory installed LED modules that are specifically designed for, and matched and mated to, the respective luminaire in which they are used. Provide LED modules that can easily be replaced in the field and are readily accessible for replacement. Provide color temperature as indicated in Luminaire Schedule. Provide factory installed driver(s) for the LED source utilized that are specifically coordinated to the LED source and luminaire in which they are used. Provide driver(s) having specific operating characteristics defined in the Luminaire Schedule. Provide driver(s) that can easily be replaced in the field and are readily accessible for replacement. Provide specification sheet for the specific driver as part of the Luminaire Submittal. Provide Total Harmonic Distortion (THD) rating of less than 20 percent. Provide factory-installed integral filtering system to ensure THD does not exceed 20 percent regardless of quantities and/or mixes with other manufactured LED systems.

All surface and recessed ceiling luminaires installed on grid or tile ceilings shall be installed to agree with module of ceiling either displacing a tile, or unit on center of tile, or centered on grid lines.

Provide luminaires and/or luminaire outlet boxes with hangers to properly support luminaire weight. All luminaires installed in or on suspended ceiling systems shall be anchored directly to the building structural system above. Such anchoring shall be independent of the ceiling support system. All luminaires shall be installed plumb and level. Support surface mounted luminaires greater than 2 feet in length at a point in addition to the outlet box luminaire stud.

Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting aimable luminaires to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose. Some of this work may be required after dark. Adjust aimable luminaires in the presence of Owner's Representative and Design Professionals.

All exteriors lighting standards shall have inline fuses installed at the hand hole of each pole.

#### 26 60 01.00 – ELECTRICAL COORDINATION OF OTHER DIVISION EQUIPMENT

Product Data Submittal Requirements  
Provide equipment electrical characteristic data for equipment specified under other divisions of this project for an electrical coordination review. Submit each type of equipment submittal as a separate submittal, for example: Pool Equipment, Kitchen Equipment, Gymnasium Equipment, Motorized Shades, etc. Each submittal should be label as 266001-PD-## where ## increments from 00 for each submittal.

#### 28 46 21.25 - FIRE ALARM SYSTEM EXTENSION

Submittal Requirements  
Product Data  
For each type of devices including catalog numbers, electrical characteristics, ratings, color, temperature limitations, etc. Submit as separate submittal (PD) but at same time as Shop Drawings for this section.  
Shop Drawings

Provide a complete set of floor plan drawings showing conduit sizes and number of conductors required to all components plus detailed wiring connections required at each type of device. Clearly show the intended location of all field devices and their connections to the system. Include battery calculations, voltage drop calculations, critical dimensions, ductwork sizes for sampling tubes and associated required dimensions, wiring diagrams, sequence of operation, cable sizes and types, etc. Shop Drawings shall be prepared by persons with the following qualifications: Trained and certified by manufacturer in fire-alarm system design, and licensed and certified by authorities having jurisdiction. Submit as separate submittal (SD) but at same time as Product Data for this section.

Extra Materials  
Audible and Visual Notification Appliances: Furnish one of each type installed.  
Smoke Detectors: Furnish 5% of new work quantity, minimum of one.  
Fuses: Furnish two of each type installed in the system.

Refer to Division 26 sections for requirements associated with all electrical work not specifically defined in this section, which shall be considered additional and concurrent scope of work that is associated with work of this section. Provide all work in strict compliance with all prevailing codes, standards and ordinances, including NFPA 70 and NFPA 72.

Qualifications of system designers, installers, programming personnel, inspection personnel, testing personnel and maintenance personnel shall be trained and certified by manufacturer for installation of units required for this Project. Provide all materials, labor and services to provide fully operational modifications to and extensions of existing facility fire alarm system(s).

Provide submittals for equipment, materials and systems specified in this section. Include cuts, descriptive information, technical data, wiring diagrams, system battery calculations, plan-view layouts, legend, point-to-point wiring, etc. Identify all information that is specific to this project.

The fire alarm system supplier shall provide to the electrical contractor a complete set of floor plan drawings showing conduit sizes and number of conductors required to all components plus detailed wiring connections required at each type of device.

It shall be the responsibility of the Fire Alarm System Manufacturer to furnish submittals to the authority having jurisdiction for approval. This action shall be taken during the shop drawing procedure. The system must be approved by this authority and a copy submitted to the Engineer with the shop drawing submittal. All fire alarm system working drawings shall be provided by manufacturer.

Program detailed device and room descriptions so that any trouble, supervisory or alarm condition clearly annunciates floor level, room number, room name, device, and indication of normal, alarm, trouble and supervisory status at fire alarm control panel(s), at fire alarm annunciator panel(s) and at the supervising central station.

Initiating Device, Notification Appliance and Signaling Line Circuits: Class A or Class A and B (provide Class A for circuits that provide isolation module protection for zones). Provide power-limited cables that have a temperature rating of at least 60 degrees C; provide additional marking for conductor size and temperature ratings for cables rated in excess of 60°C (140°F).

Interruption of Existing Fire-Alarm Service: Do not interrupt fire-alarm service to facilities occupied by Owner or others unless owner and others have been notified with at least two-day notice and approval.

Maintain existing equipment fully operational until new equipment has been tested and accepted. As new equipment is installed, label it "NOT IN SERVICE" until it is accepted. Remove labels from new equipment when put into service.

Added Devices and Extension of Existing System:

Verify that existing fire-alarm system is operational without troubles before making changes or connections. Connect new equipment to existing control panel in existing part of the building.

Connect new equipment to existing monitoring equipment at the supervising station.

Expand, modify, and supplement existing control/monitoring equipment as necessary to extend existing control/monitoring functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.

Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class A, B, or A and B as required to match existing conditions.

Provide materials and labor as required to result in a fully operational extension and modification to the existing fire alarm system.

Where indicated on drawings, remove existing fire alarm devices in affected areas and protect during demolition and construction phases. Clean and reinstall these existing devices as indicated on drawings. Relocate devices as indicated on drawings and extend conduit and wiring as required. Modify and/or extend related existing wiring using code-compliant and landlord-compliant methods as required for a complete operational system.

Provide fire alarm system devices of the same manufacturer as, compatible with, and UL Listed and labeled for use on, the existing building fire alarm system.

Provide auxiliary contacts if required for special applications. All strobe alarms shall be compliant with NFPA and ADA.

Install wall-mounted devices at the following heights above finished floor: Fire Alarm Manual Pull Stations: 46" to top of operating handle. Fire Alarm Visual-Only and A/V Annunciators: 80" to bottom of outlet box.

All new wiring shall be installed in strict accordance with manufacturer's requirements.

The installation shall include a complete system test of the equipment by the local representative of the system installed. This test shall be performed in the presence of representatives of the Owner, and local fire department and other Authority/Authorities Having Jurisdiction (AHJ) if/as applicable.

Provide all required modifications (cards, power supplies, hardware, firmware, software, etc.) to the existing Fire Alarm system as required to render the entire extension fully operable.

The audio/visual and visual-only alarm indicating devices shall be red ADA-compliant units wall mounted at 6'8" to bottom of outlet box as shown on plans. Synchronize strobe units wherever required by any authority having jurisdiction, including ADAAG. Additionally, where required by local authority, the strobes shall meet ANSI S3.41 temporal code.

Provide isolation modules as/if required to isolate wire to wire shorts on a data loop to limit the number of other modules or detectors that are incapacitated by the short circuit fault and/or grounds. Isolation modules shall be part of the smoke detector base. The isolation modules shall permit the entire system to operate independently of the area disconnected by the isolation module due to wiring faults. Provide isolation modules and wiring configurations (using Class A, or Class A and B, pathways) for fault isolation so that any one fault will not cause any part of the system to go down other than the zone of the fault; provide zoning compliant with prevailing codes, including NFPA 72, with at least one zone per floor (more if areas are subdivided into multiple zones by fire and/or smoke barriers).

Provide monitor modules in quantities as required to interface all "non-intelligent" devices into the system. Application examples include fire alarm system remotes panels, remote power supplies, Sprinkler Flow Switches, Sprinkler Valve Tamper Switches, Sprinkler Valve Tamper Switches at Post Indicator Valves (PIVs), Sprinkler Valve Tamper Switches at meter pits, Fire Suppression/Protection System Pressure Switches, etc. as applicable. Refer to documents of all trades since some such devices may not be specifically shown on electrical drawings. Review fire suppression system submittals and installation drawings to determine exact quantities and locations for devices that require monitor modules, as project drawings may not include all devices that require monitoring; provide monitor modules, wiring, connections, programming, etc. accordingly. Provide indoor monitor modules for applications where outdoor valves are being monitored. Field-verify locations for outdoor valves (meter pits, PIVs, etc.). Provide analog wiring in conduit from outdoor tamper switch to indoor monitor module.

Provide control modules for all auxiliary devices and all supervised control functions such as air handler shutdowns.

Photoelectric Smoke Detectors: Provide photoelectric type smoke detectors. Provide contact bases for all applications where auxiliary contacts are required. Smoke detector locations shall not exceed the rated coverage of the detector and, in general, shall be no more than 15 feet from a wall or 30 feet apart. Placement Restrictions: Locate detectors no closer than 3 feet horizontally from air-supply diffuser or return-air opening; Locate detectors no closer than 12 inches from any part of a lighting fixture; Locate detectors no closer than 3 feet horizontally from the tip of a ceiling fan blade. Locate detectors no closer than 3 feet horizontally from the door or opening of a bathroom that contains a bathtub or shower, unless this would prevent placement of a detector that is required by prevailing codes. Locate detectors no closer than 6 feet horizontally from a permanently installed cooking appliance, unless this would prevent placement of a detector that is required by prevailing codes.

Provide ceiling mounted smoke detector located above each control/power unit (all types, including those for associated systems), and above all remote annunciators.

Provide weatherproof audible alarm notification device on the exterior wall at the location where the fire suppression sprinkler system water service enters the building.

Provide ceiling mounted photoelectric smoke detector located above each Fire Alarm Control Unit (FACU), if not already existing.

Provide all required 120V AC power as required to energize all new fire alarm related components. This requirement applies whether or not such power work is shown on the drawings. Branch circuits serving fire alarm related equipment shall be dedicated to fire alarm related equipment only.

Duct Smoke Detectors:

Provide intelligent duct-mounted photoelectric smoke detectors to match fire alarm system. Install the duct detector in an indoor accessible location, positioned in the duct per NFPA. Provide sampling tube, test station and all other required accessories.

Unless otherwise required by prevailing code(s), provide all duct smoke detectors in the return air duct/plenum of the respective air handling equipment, or in multiple locations of the return duct branches if necessary to meet the minimum straight distances that are required by manufacturer of smoke duct detectors. Refer to HVAC ductwork drawings, and to HVAC installer's coordination drawings, for configurations when determining actual locations and quantities of duct smoke detectors. Where more than one detector is already indicated associated with a particular piece of air handling equipment, there are special reasons for the additional detectors (i.e. split returns, return risers serving multiple floors, etc.); coordinate all locations for same with the HVAC installer.

In cases where multiple HVAC units serve a common space, provide interlocking functionality so that activation of any one duct smoke detector (or spot smoke detector where applicable) provides shutdown functions for all HVAC units that collectively serve the affected space.

Provide all required power and control wiring so that upon detection of smoke, the following sequence of operations occurs: Report as alarm or supervisory signal to the fire alarm system and monitoring central station based on prevailing codes and direction from AHJ – verify in field with AHJ); The respective HVAC unit shuts down (including applicable dampers); Associated smoke dampers close, if present (wired and configured to automatically re-open on duct detector reset).

Provide keyed test/monitor station (with status/alarm/trouble indicating LED's) on the ceiling or wall (flush in finished areas) beneath the duct detector at discreet but readily visible location as determined in field unless specific location is shown on drawings. Provide engraved (or approved equivalent method) plate at each remote station to read: "#### Duct Smoke Detector", where #### is the equipment identification used on drawings. Connect to fire alarm system.

If required by authority having jurisdiction, provide identified key-operated air handler reset station on the ceiling or wall (flush in finished areas) beneath the fire handler at discreet but readily visible location as determined in field unless specific location is shown on drawings. Provide engraved (or approved equivalent method) plate at each reset station to read: "#### Reset Switch to reset #### after a duct smoke detection event has been cleared and the fire alarm system has been reset.", where #### is the equipment identification used on drawings. Coordinate with authority having jurisdiction for verification of, or required modification to, the language to be engraved. Connect to fire alarm system.

Smoke Dampers and Fire/Smoke Dampers:

Provide all related power and control wiring. Provide control module(s) and relay(s) if necessary) to provide wired/programmed control of the damper(s). Furnish and wire all smoke detectors associated with dampers. Detectors in ductwork shall be installed by Division 23 contractor. All others shall be installed by Division 28 contractor. Where a damper is installed within a duct, provide duct smoke detector within five feet of the damper with no air outlets or inlets between the detector and the damper. In cases where a duct smoke detector is not practical due to position or post-construction access, a smoke detector may be provided

inside the duct instead of a duct detector, with no air outlets or inlets between the detector and the damper. In cases where ductwork is open to a plenum or similar application, smoke detectors may be provided instead of a duct detector if a duct smoke detector is not practical due to position or post-construction access. Install within 12 inches of the opening and provide in quantities and spacing as required to comply with Part A.17.7.5.4.2.2 of NFPA 72 (one detector centered in opening for up to 36-inch wide duct, 2 detectors at one-quarter points of the opening for ducts between 36 and 72 inches wide, and one additional detector for each full 24 inches of opening beyond 72 inches wide). Quantities and types of detectors that may be indicated on drawings are for functional representation only. Provide types and quantities as needed to comply with device specifications, means and methods, and with prevailing codes and ordinances. Provide detectors that are listed for the respective air velocities, temperatures and humidity anticipated at the point where it is installed. Install smoke detection in strict compliance with all prevailing codes and regulations, including Parts 17.7.5.4 and 17.7.5.5 of NFPA 72. Where a damper is installed above smoke barrier doors in a smoke barrier, provide one ceiling smoke detector (listed for releasing service) on each side of the respective smoke barrier door opening. Where a damper is installed within an unducted opening in a wall, provide one ceiling smoke detector (listed for releasing service) on each side of the respective damper, within five feet horizontally of the damper. Provide all required power/control modules, wiring and programming so that, upon detection of smoke by any of the smoke detectors related to the respective damper, the following sequence of operations occurs as applicable: Damper automatically closes; Related HVAC unit shuts down; Alarm signal is sent to the fire alarm control unit and to the monitoring central station. (Where duct smoke detectors are used, program to report as an alarm signal or as a supervisory signal, based on prevailing codes and direction from AHJ – verify with AHJ in field); Damper automatically resets (opens) upon successful reset of the fire alarm system after the initiating condition has been cleared.



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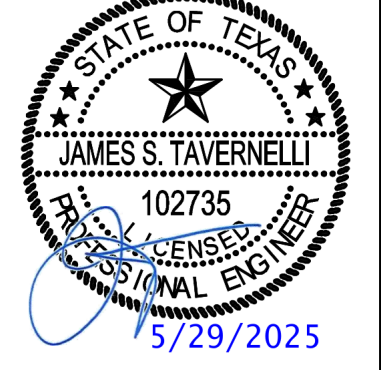
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ELECTRICAL  
SPECIFICATIONS

DRAWN BY  
TMG

CHECKED BY  
MR

JOB NUMBER  
25341

SHEET NAME



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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	HSTAT	HEATING (STEAM CONDENSATE)	SAT	SUPPLY AIR TEMPERATURE
AP	ACCESS PANEL	HZ	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	HERTZ	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		
COP	COEFFICIENT OF PERFORMANCE	LPS	(STEAM CONDENSATE) 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		
DIA	DIAMETER	MPS	MEDIUM PRESSURE STEAM		
DIW	DEIONIZED WATER	MRI	MAGNETIC RESONANCE IMAGING		
DP	DEW POINT TEMPERATURE	MVD	MANUAL VOLUME DAMPER		
DX	DIRECT EXPANSION	NA	NOT APPLICABLE		
EA	EXHAUST AIR	NC	NOISE CRITERIA		
EAT	ENTERING AIR TEMPERATURE	NC	NORMALLY CLOSED		
EER	ENERGY EFFICIENCY RATIO	NO	NORMALLY OPEN		
EG	EXHAUST GRILLE	NTS	NOT TO SCALE		
EMERG	EMERGENCY POWER	OA	OUTSIDE AIR		
ESP	EXTERNAL STATIC PRESSURE	OCP	OVER CURRENT PROTECTION		
EWI	ENTERING WATER TEMPERATURE	PD	PRESSURE DROP		
EX	EXISTING	PPM	PARTS PER MILLION		
F	FAHRENHEIT	PRS	PRESSURE REGULATING (VALVE) STATION		
F&T	FLOAT AND THERMOSTATIC	PRV	PRESSURE REGULATING VALVE		
FA	FREE AREA	PSI	POUNDS PER SQUARE INCH		
FD	FIRE DAMPER	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE		
FLA	FULL LOAD AMPERES	PSIG	POUNDS PER SQUARE INCH - GAGE		
FPM	FEET PER MINUTE	RA	RETURN AIR		
FPS	FEET PER SECOND	RAT	RETURN AIR TEMPERATURE		
FT	FEET	RH	RELATIVE HUMIDITY		
FURN	FURNISHED	RL	REFRIGERANT LIQUID LINE		
GA	GAUGE	RLA	RUN LOAD AMPERE		
GAL	GALLONS				
GPM	GALLONS PER MINUTE				



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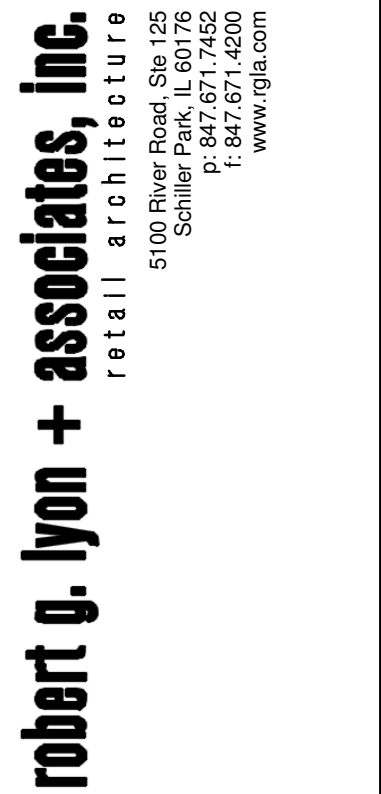
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SAN ANTONIO, TX 78209

MECHANICAL COVER SHEET

DRAWN BY	JCH
CHECKED BY	AJK
JOB NUMBER	25341
SHEET NAME	M-001









COMcheck Software Version COMcheckWeb  
Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC  
Project Title:  
Location: San Antonio, Texas  
Climate Zone: 2a  
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

QuantitySystem Type & Description

- 1 Water Heater:  
Electric Storage Water Heater, Capacity: 20 gallons w/ Circulation Pump  
No minimum efficiency requirement applies

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 2021 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: Report date: 05/20/25  
Data filename: Page 1 of 5



COMcheck Software Version COMcheckWeb  
Inspection Checklist

Energy Code: 2021 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	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C404.6.1, C404.6.2 [PL3] <sup>1</sup>	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C404.6.1, C404.6.1.1 [PL8] <sup>1</sup>	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	Requirement will be met.

Additional Comments/Assumptions:

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

Project Title: Report date: 05/20/25  
Data filename: Page 2 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26] <sup>1</sup>	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.
C405.8 [EL27] <sup>1</sup>	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.
C405.9.1, C405.9.2 [EL28] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C405.10 [EL29] <sup>1</sup>	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.
C405.1.1 [EL30] <sup>1</sup>	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.11, C405.11.1 [EL31] <sup>1</sup>	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.

Additional Comments/Assumptions:

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

Project Title: Report date: 05/20/25  
Data filename: Page 4 of 5

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C403.9 [ME144] <sup>1</sup>	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.7.2 [ME115] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C403.7.5 [ME116] <sup>1</sup>	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	<b>Exception:</b> Requirement does not apply.
C403.4.1, 4 [ME63] <sup>2</sup>	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 80°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C408.2.2.1 [ME53] <sup>1</sup>	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.
C403.11.3 1, C403.11.3 2 [ME123] <sup>1</sup>	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 C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.

Additional Comments/Assumptions:

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

Project Title: Report date: 05/20/25  
Data filename: Page 3 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.3 [F111] <sup>1</sup>	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C404.4 [F125] <sup>1</sup>	All piping insulated in accordance with section details and Table C403.12.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1 [F112] <sup>1</sup>	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<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] <sup>1</sup>	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.

Additional Comments/Assumptions:

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

Project Title: Report date: 05/20/25  
Data filename: Page 5 of 5



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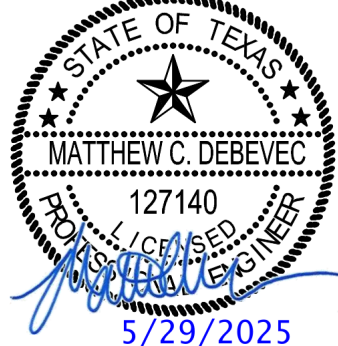
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carhartt

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ENERGY COMPLIANCE

DRAWN BY

JCH

CHECKED BY

AJK

JOB NUMBER

25341

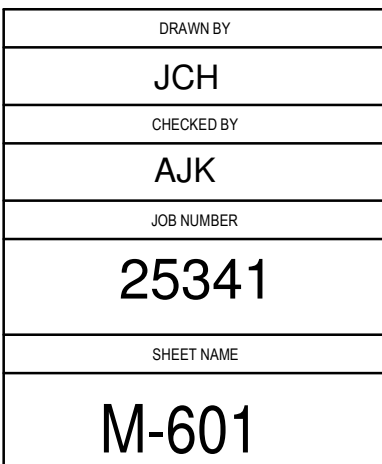
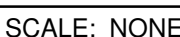
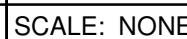
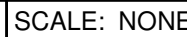
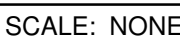
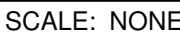
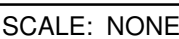
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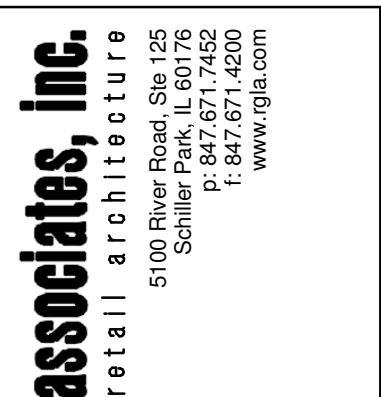
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HVAC VENTILATION SCHEDULE														
NUMBER	NAME	AREA	PEOPLE	OA PER PERSON	OA PER SQ FT.	REQ SUP	ACT SUP	REQ OA	ACT OA	ACT RET	ACT EXH	CRIT OA	PRESSURE	NATURAL VENTILATION
100	SALES	3285 SF	51	7.5	0.12	3110	4350	927	927	4350	0	22.5	Neutral	False
101	FITTING AREA	71 SF	0	0	0	25	100	21	21	100	20	0	Negative	False
102	FR-1	44 SF	0	0	0	15	0	0	0	0	10	0	Negative	False
103	ACCESSIBLE FR	54 SF	0	0	0	20	0	0	0	0	15	0	Negative	False
104	BREAKROOM	174 SF	1	5	0.06	70	180	38	38	180	0	10.8	Neutral	False
105	HALLWAY	67 SF	0	0	0.06	20	50	11	11	50	0	9.3	Neutral	False
106	OFFICE	56 SF	1	5	0.06	100	120	26	26	120	0	8.7	Neutral	False
107	EXISTING TOILET	67 SF	0	0	0	40	50	11	11	0	80	0	Negative	False
108	BOH	841 SF	0	0	0.12	515	550	117	117	550	0	21.9	Neutral	False
TOTAL		4648 SF												

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 EQUIPMENT'S SHORT CIRCUIT RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT VALUE INDICATED.																			
MC	MOTOR CONTROL (POWER)	EX	EXISTING	MCC	MOTOR CONTROL STARTER	OPT	CONTROL POWER TRANSFORMER																				
SD	DUCT SMOKE DETECTOR	FC	FIRE PROTECTION CONTRACTOR	MG	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	CORD AND PLUG CONNECTION					CO	CARBON MONOXIDE SENSOR																				
CP	HARD WIRED (WHEN INDICATED FOR DC TYPE)					INT	INTEGRAL TO EQUIPMENT																				
[BLANK]						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	OCF	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 REQUIRED?	AVAILABLE FAULT CURRENT	
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	1576	

HVAC DIFFUSERS AND REGISTERS SCHEDULE																			
TAG	MANUFACTURER	MODEL	FACE	MOUNTING	MATERIAL	FINISH		DAMPER TYPE		BORDER STYLE									
CD-1	TITUS	OMNI	24"x24"	CEILING	STEEL	STANDARD WHITE		OPPOSED BLADE		SURFACE MOUNT									
SR-1	TITUS	272RL	10"x3"	DUCT	STEEL	BLACK FINISH G.C. TO FIELD PAINT TO MATCH CEILING OR WALLS		OPPOSED BLADE		SURFACE MOUNT									
SR-2	TITUS	272RL	14"x6"	DUCT	STEEL	BLACK FINISH G.C. TO FIELD PAINT TO MATCH CEILING OR WALLS		OPPOSED BLADE		SURFACE MOUNT									
TG-1	TITUS	350RL	24"x14"	SIDEWALL	STEEL	STANDARD WHITE		(none)		SURFACE MOUNT									
TG-2	TITUS	350RL	12"x12"	SIDEWALL	STEEL	STANDARD WHITE		(none)		SURFACE MOUNT									
TG-3	TITUS	350RL	12"x12"	CEILING	STEEL	STANDARD WHITE		(none)		SURFACE MOUNT									

HVAC LOAD SCHEDULE																								
THE HEATING AND COOLING LOAD CALCULATIONS ARE BASED ON THE CLTD/CLF (COOLING LOAD TEMPERATURE DIFFERENCE/COOLING LOAD FACTOR) METHOD. ASSUMPTIONS AND EXECUTION OF THESE METHODS ARE PER ASHRAE 183-2007 STANDARD FOR PEAK COOLING AND HEATING LOAD CALCULATIONS IN BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.																								
COOLING LOAD BREAKDOWN												HEATING LOAD BREAKDOWN												
CROOF	SENSIBLE HEAT GAIN FROM ROOF	CSSENS	TOTAL SENSIBLE HEAT GAIN TO SPACE									HROOF	HEAT LOSS FROM ROOF											
CWALL	SENSIBLE HEAT GAIN FROM EXTERIOR WALLS	CFAN	SENSIBLE HEAT GAIN FROM AIR HANDLER FAN									HWALL	HEAT LOSS FROM EXTERIOR WALLS											
CPART	SENSIBLE HEAT GAIN FROM PARTITIONS	COAS	SENSIBLE HEAT GAIN FROM OUTDOOR VENTILATION AIR									HPART	HEAT LOSS FROM PARTITIONS											
CGLASS	SENSIBLE HEAT GAIN FROM GLAZING	CTSENS	TOTAL SENSIBLE HEAT GAIN									HGLASS	HEAT LOSS FROM GLAZING											
CSOLAR	SENSIBLE HEAT GAIN FROM SOLAR GAIN THROUGH GLAZING	CPLAT	LATENT HEAT GAIN FROM PEOPLE									HSLAB	HEAT LOSS FROM SLAB											
CLIGHTS	SENSIBLE HEAT GAIN FROM INTERIOR LIGHTING	COAL	LATENT HEAT GAIN FROM OUTDOOR VENTILATION AIR									HSPACE	TOTAL HEAT LOSS FROM SPACE											
CEQUIP	SENSIBLE HEAT GAIN FROM PLUG LOADS, COMPUTERS, ETC.	CTLAT	TOTAL LATENT HEAT GAIN									HOA	HEAT LOSS FROM OUTDOOR VENTILATION AIR											
CPSENS	SENSIBLE HEAT GAIN FROM PEOPLE	CTTOT	TOTAL HEAT GAIN (SENSIBLE + LATENT)									HTOT	TOTAL HEAT LOSS											
EQUIPMENT MARK	CROOF	CWALL	CPART	CGLASS	CSOLAR	CLIGHTS	CEQUIP	CPSENS	CSSENS	CFAN	COAS	CTSENS	CPLAT	COAL	CTLAT	CTOT	HROOF	HWALL	HPART	HGLASS	HSPACE	HSLAB	HOA	HTOT
EXRTU	9.15	5.72	0	5.62	17.32	33.91	10.96	18.78	110.6	2.7	28.54	141.84	10.6	18.41	29.01	170.85	9.58	9.92	0	13.25	44.96	12.2	50.58	95.54

HVAC EXHAUST FAN SCHEDULE																														
PRODUCT					GENERAL		AIRFLOW				ELECTRICAL		MISC	ELECTRICAL															PRODUCT	
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	EA (CFM)	ESP (IN. W.C.)	FAN HP	FAN RTR SPEED (RPM)	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN FURNISHED BY	CN INSTALLED BY	CN WIRED BY	NC TYPE	NC FURNISHED BY	NC INSTALLED BY	NC WIRED BY	DC TYPE	DC FURNISHED	DC INSTALLED BY	DC WIRED BY	FA SHUTDOWN	FAULT CURRENT	MARK
EF-1	HVAC EXHAUST FAN	GREENHECK	SP-LP0511-1	10	23 34 00.00	--	NEW	75	0.45	--	773	NO	--	EF-1	EF-1 - 120V/1PH, 0.29A FLA, 0.4 ICA, 15A OCP	NAN	EC	EC	EC	ECN	MFR	MFR	MFR	--	EC	EC	EC	NONE	EF-1: 1576	EF-1

AIR CURTAIN W/NO HEAT SCHEDULE																															
PRODUCT					GENERAL		AIRFLOW				ELECTRICAL		MISC	ELECTRICAL															PRODUCT		
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	SA (CFM)	FAN BHP	FAN HP	FAN RTR SPEED (RPM)	FAN SPEED (RPM)	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN FURNISHED BY	CN INSTALLED BY	CN WIRED BY	NC TYPE	NC FURNISHED BY	NC INSTALLED BY	NC WIRED BY	DC TYPE	DC FURNISHED	DC INSTALLED BY	DC WIRED BY	FA SHUTDOWN	FAULT CURRENT	MARK
EXAC-1	AIR CURTAIN W/NO HEAT	VEVOR	59"	49	23 34 33.00	FRONT ENTRY	EXISTING	2515	EX	EX	EX	EX	NO	EX	EXAC-1	EXAC-1 - 120V/1PH, 666W	EX	--	--	EX	EX	--	--	--	EX	--	--	--	NONE	EXAC-1: 580	EXAC-1
EXAC-2	AIR CURTAIN W/NO HEAT	VEVOR	56	32	23 34 33.00	FRONT ENTRY	EXISTING	2515	EX	EX	EX	EX	NO	EX	EXAC-2	EXAC-2 - 120V/1PH, 329W	EX	--	--	EX	EX	--	--	--	EX	--	--	--	NONE	EXAC-2: 1233	EXAC-2

||
||
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ALAMO QUARRY MARKET  
7322 JONES  
MALTSBERGER RD #112,  
SAN ANTONIO, TX 78209

PLUMBING COVER SHEET

DRAWN BY
JCH
CHECKED BY
AJK
JOB NUMBER
25341
SHEET NAME
P-001

**PLUMBING DEMOLITION NOTE**

PLUMBING CONTRACTOR TO REMOVE EXISTING PLUMBING EQUIPMENT, PIPE, HANGERS, INSULATION, CONTROLS AND MISCELLANEOUS EQUIPMENT, ETC... NOT INTENDED FOR REUSE.







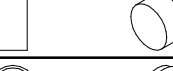
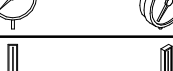
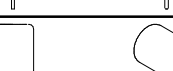

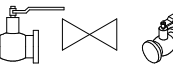
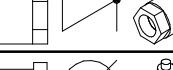

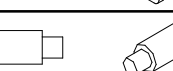

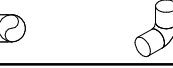
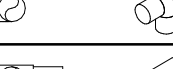
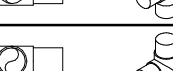
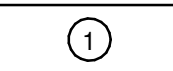

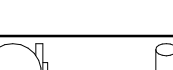

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT 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.

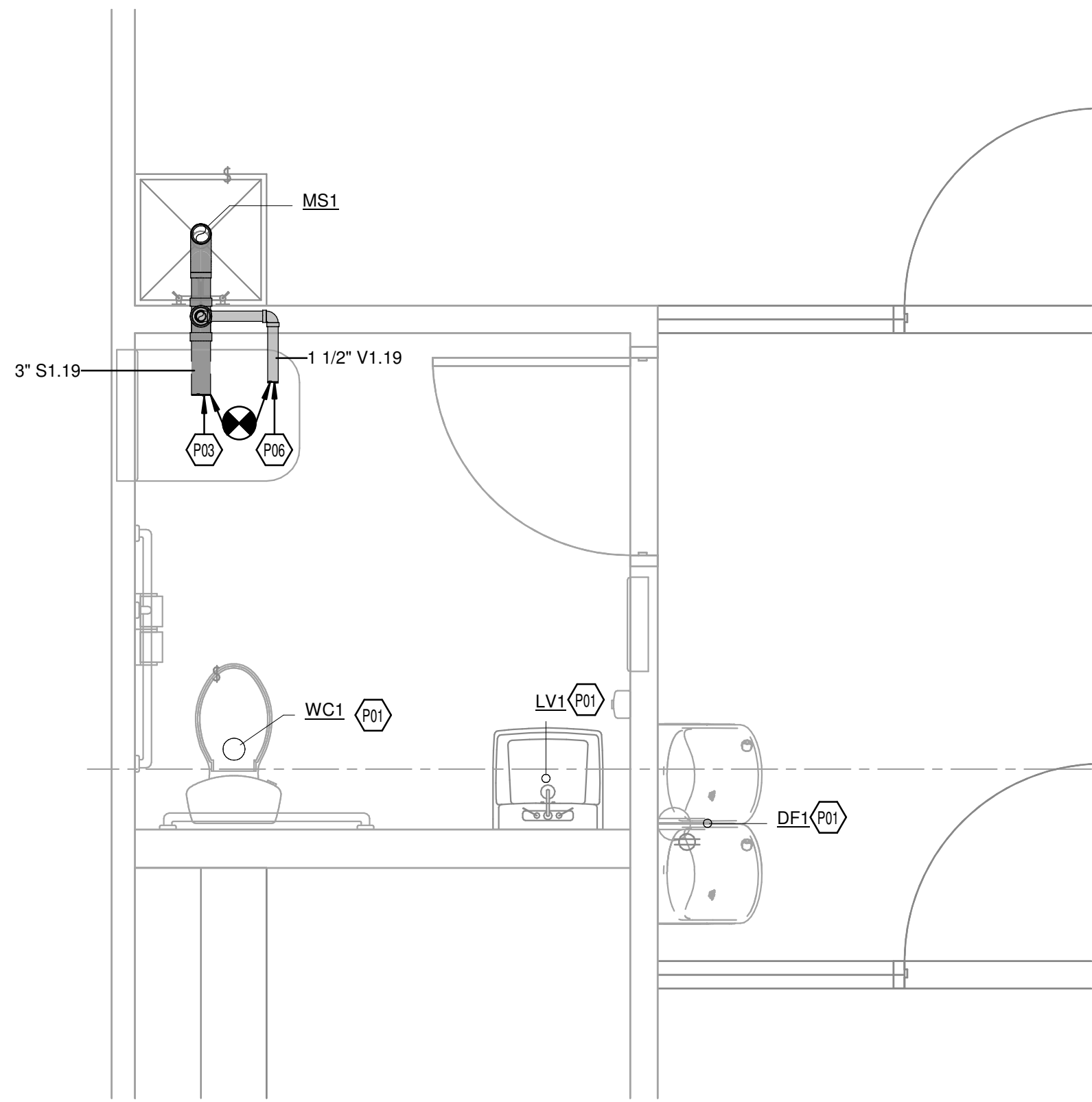
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT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

STANDARD PLUMBING ABBREVIATIONS			
AAV	AIR ADMITTANCE VALVE	HW	DOMESTIC HOT WATER
AD	AREA DRAIN	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AFG	ABOVE FINISHED GRADE	IN WC	INCH WATER COLUMN
ANSI	AMERICAN NATIONAL STANDARDS	KW	KILOWATT
	INSTITUTE	KWH	KILOWATT HOUR
APPROX	APPROXIMATE	LPG	LIQUID PROPANE GAS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	LV	LAVATORY
AV	ACID VENT	MAU	MAKEUP AIR UNIT
AW	ACID WASTE	MAX	MAXIMUM
BAS	BUILDING AUTOMATION SYSTEM	MBH	1000 BTUH
BFP	BACKFLOW PREVENTER	MH	MANHOLE
BT	BATHTUB	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MOCPP	MAXIMUM OVERCURRENT PROTECTION
BTUH	BRITISH THERMAL UNIT PER HOUR	MS	MOP SINK
BWV	BACK WATER VALVE	MV	MIXING VALVE
CA	COMPRESSED AIR	N	NITROGEN
CB	CATCH BASIN	NC	NORMALLY CLOSED
CFH	CUBIC FEET PER HOUR	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NITROUS OXIDE
CI	CAST IRON	NOM	NOMINAL
CO	CLEAN OUT	NTS	NOT TO SCALE
CO2	CARBON DIOXIDE	O	OXYGEN
CP	CIRCULATION PUMP	OCP	OVER CURRENT PROTECTION
CW	DOMESTIC COLD WATER	OD	OVERFLOW DRAIN
DF	DRINKING FOUNTAIN	OI	OIL INTERCEPTOR
DI	DEIONIZED WATER	PC	PLUMBING CONTRACTOR
DIA	DIAMETER	PRV	PRESSURE REGULATING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DS	DOWNSPOUT	RD	ROOF DRAIN
DSN	DOWNSPOUT NOZZLE	RH	ROOF HYDRANT
EC	ELECTRICAL CONTRACTOR	RO	REVERSE OSMOSIS
ET	EXPANSION TANK	RPZ	REDUCED PRESSURE ZONE VALVE
EW	ELECTRIC WATER COOLER	RTU	ROOF TOP UNIT
EWV	ELECTRIC WATER VALVE	S	SANITARY
EX	EXISTING	SI	SOLIDS INTERCEPTOR
F	FAHRENHEIT	SK	SINK
FCO	FLOOR CLEAN OUT	SOFT	SOFT WATER
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FFE	FINISHED FLOOR ELEVATION	SQ FT	SQUARE FOOT (FEET)
FLA	FULL LOAD AMPERES	ST	STORM PIPING
FS	FLOOR SINK	TD	TRENCH DRAIN
FT	FEET	TEMP	TEMPERATURE
FW	FILTERED WATER	TMV	THERMOSTATIC MIXING VALVE
G	GAS	TP	TRAP PRIMER
GCO	GRADE CLEAN OUT	UH	UNIT HEATER
GWH	GAS FIRED WATER HEATER	UR	URINAL
GI	GREASE INTERCEPTOR	VAC	VACUUM
GPD	GALLONS PER DAY	VFD	VARIABLE FREQUENCY DRIVE
GPH	GALLONS PER HOUR	VP	VACUUM PUMP
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GPR	GAS PRESSURE REGULATOR	WAGD	WASTE ANESTHESIA GAS
GW	GREASE WASTE	WB	WASHER BOX
H&CW	HOT & COLD WATER	WC	WATER CLOSET
HB	HOSE BIBB	WCO	WALL CLEAN OUT
HC	HVAC CONTRACTOR	WH	WALL HYDRANT
HD	HUB DRAIN	WF	WATER FILTER
HP	HORSEPOWER	YH	YARD HYDRANT

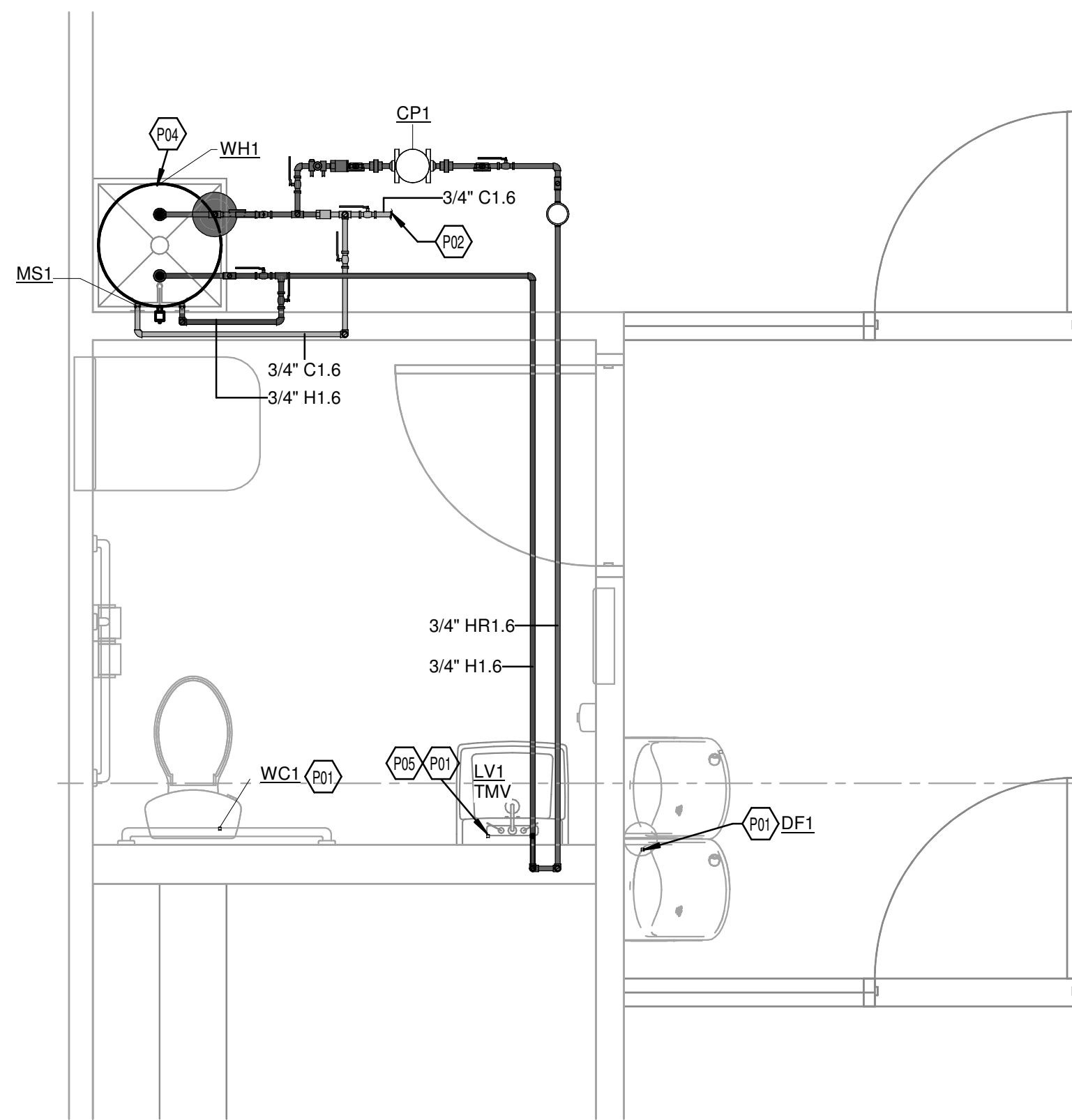
CODE INFORMATION	
PLUMBING CODE	2021 INTERNATIONAL PLUMBING CODE
ENERGY CODE	2021 INTERNATIONAL ENERGY CONSERVATION CODE
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
PIPING LINE TYPES	
	SANITARY WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING (140°F)
	DOMESTIC HOT WATER RETURN PIPING (140°F)
PLUMBING ACCESSORIES	
	UNION
	PIPE CAP
	PRESSURE GAUGE
	THERMOMETER
	EXPANSION TANK
PIPE VALVES	
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE
	PRESSURE AND TEMPERATURE RELIEF VALVE
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
PLUMBING SYMBOLS	
	PIPE UP
	PIPE DOWN
	PIPE TEE DOWN
	PIPE TEE UP
	RISER NUMBER
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)
PLUMBING MISCELLANEOUS	
	CIRCULATION PUMP, RETURN PUMP



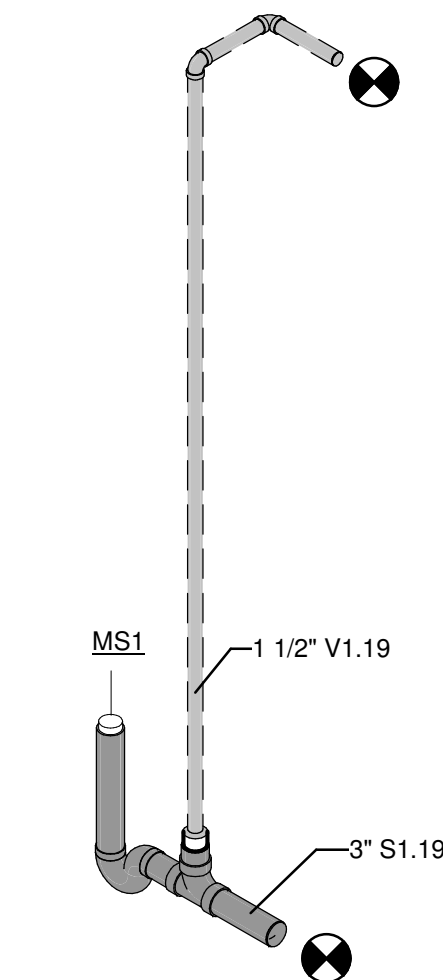
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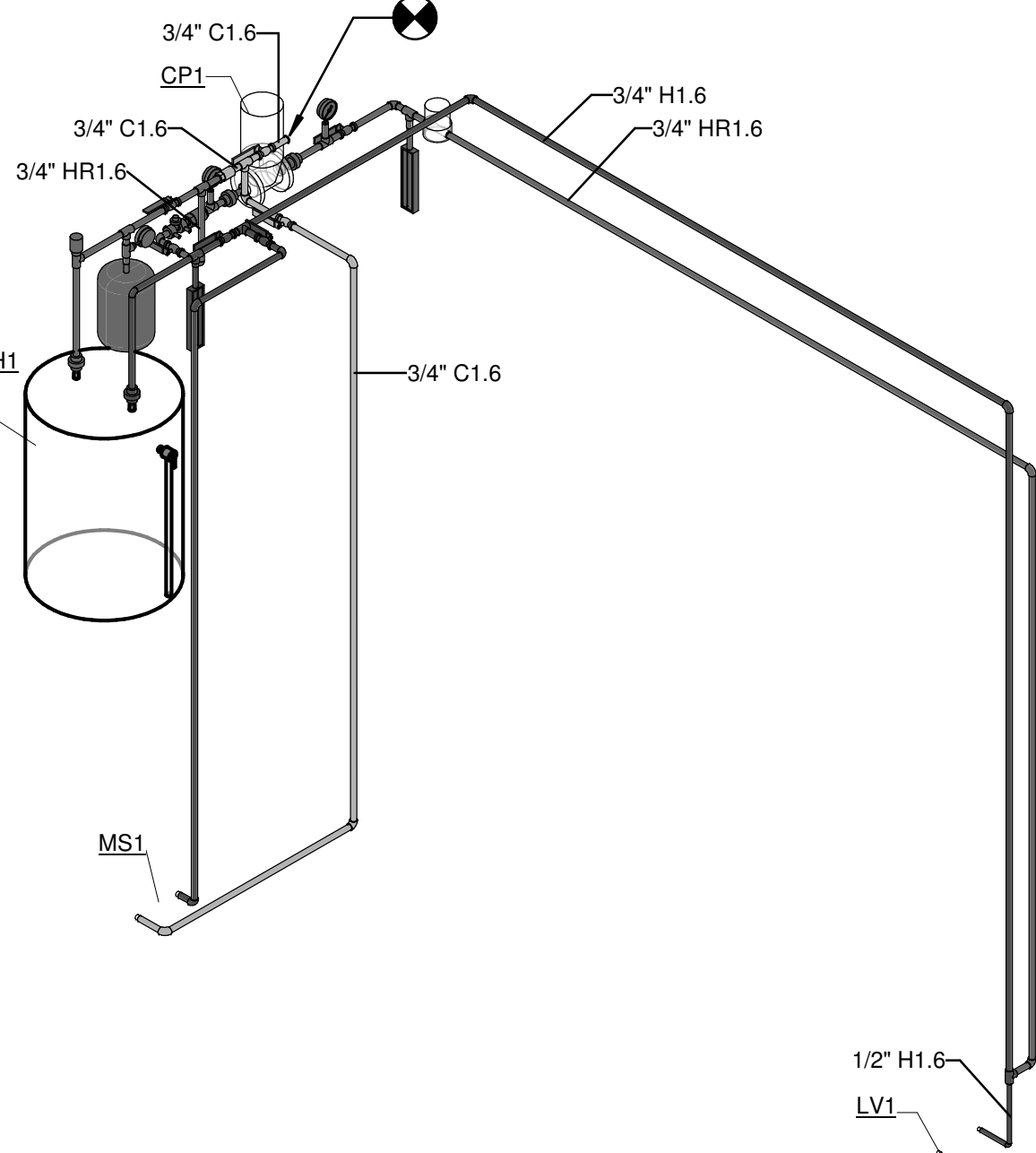
② ENLARGED SANITARY AND VENT PLAN  
1/2" = 1'-0"



③ ENLARGED WATER SUPPLY PLAN  
1/2" = 1'-0"



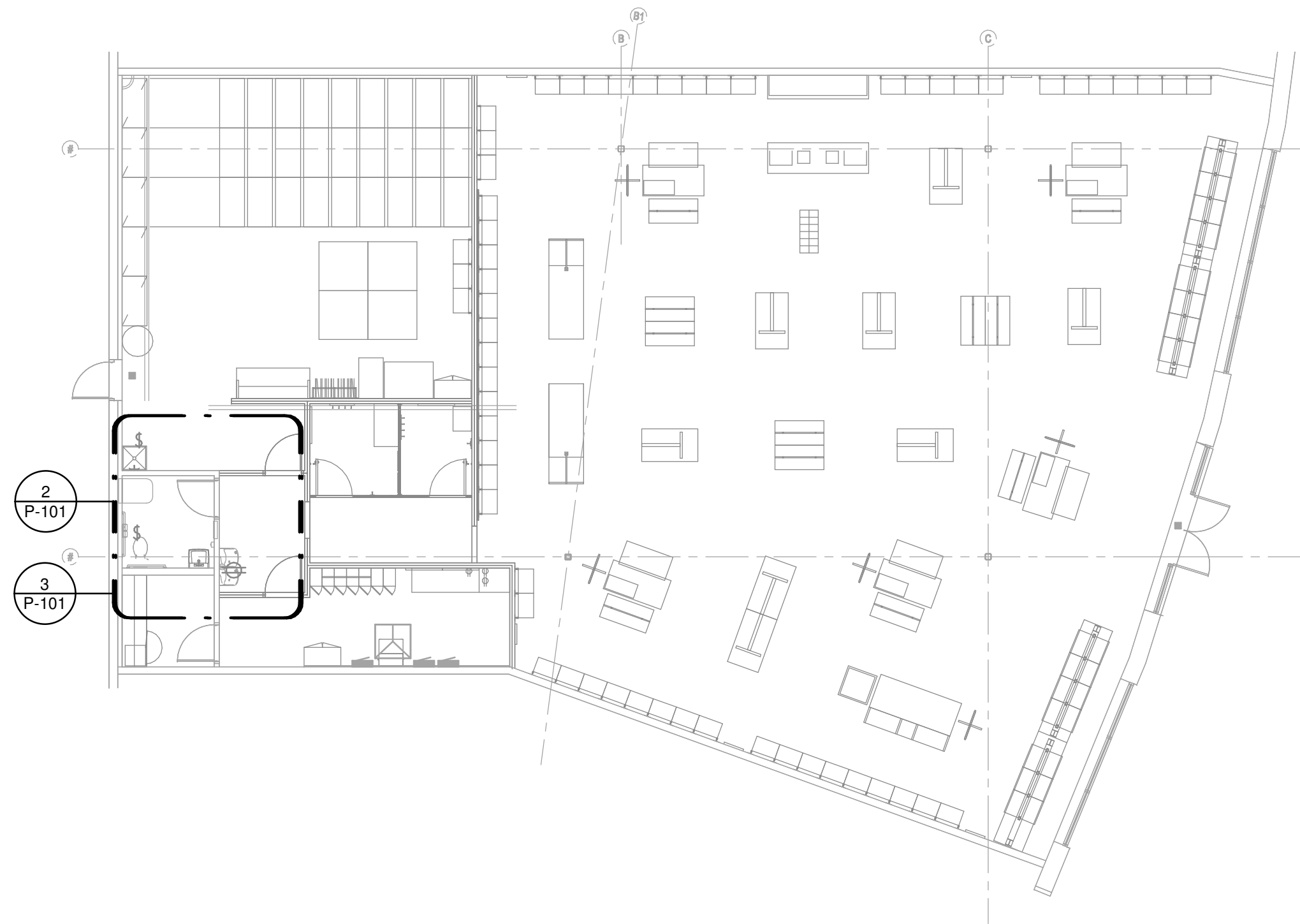
④ MOP SINK ISOMETRIC



⑤ WATER SUPPLY ISOMETRIC

KEYED NOTES	
P01	NEW FIXTURE TO REPLACE EXISTING FIXTURE IN PLACE. EXTEND AND CONNECT NEW PIPING AS NECESSARY FOR REPLACEMENT. FIELD VERIFY EXISTING PIPE MATERIAL TYPE, SIZE AND LOCATION PRIOR TO MAKING CONNECTION.
P02	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.
P03	CONNECT NEW SANITARY PIPING TO NEAREST EXISTING 3" 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 INSURE PIPING SIZES AND LOCATION.
P04	PROVIDE ELECTRIC HOT WATER HEATER ABOVE MOP SINK WITH 68" CLEAR TO BOTTOM OF WATER HEATER SUPPORT PLATFORM.
P05	PROVIDE NEW ASSE 1070 RATED THERMOSTATIC MIXING VALVE.
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.

Pipe Type Legend		
Mark	System Name	Pipe Material
C1.6	C1 - Domestic Cold Water	6 - Copper - Type L - ASTM B88
H1.6	H1 - Domestic Hot Water	6 - Copper - Type L - ASTM B88
HR1.6	HR1 - Hot Water Return	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 PLUMBING PLAN  
1" = 10'-0"

**KLH ENGINEERS**  
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KLH JOB #: 27478

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KOHRS LONNEMANN HEIL ENGINEERS, INC. #F-3634

STATE OF TEXAS  
MATTHEW C. DEBEVEY  
127140  
REGISTERED PROFESSIONAL ENGINEER  
5/29/2025

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**carhartt**  
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7322 JONES  
MALTSBERGER RD #112,  
SAN ANTONIO, TX 78209

PLUMBING PLAN

DRAWN BY
JCH
CHECKED BY
AJK
JOB NUMBER
25341
SHEET NAME
P-101



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**SECTION 22 05 00.00 - 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 standards, and applicable codes and standards. All plumbing fixtures, equipment, accessories, and appurtenances shall be NSF/ANSI 61-372 compliant. State Building Code; State Plumbing Code; American Society for Test 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, unless 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 scouting and eye 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/ductwork.

**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.

**INTERRUPTION OF EXISTING SERVICES** Interruption of Existing Plumbing Services: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated: Notify, Architect, Construction Manager, and Owner no fewer than seven days in advance of proposed interruption of service. Do not proceed with interruption of service without Architect's written permission.

**DELEGATED DESIGN** For equipment supports, this contractor shall retain a qualified professional engineer to provide support calculations of static and dynamic loading due to operating equipment weight. The signed and sealed calculations and details shall be submitted by the retained professional engineer.

**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://files.klhengrs.com/requestdrawings.html>

**22 05 03.00 - SUBMITTALS FOR PLUMBING** 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 standalone 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 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](http://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. When resubmission 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 the 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 220523 would be labeled as "220523.00-PD-00"; the first resubmittal of same shall be labeled "220523.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "220523.00-SD-00"; the first resubmittal of same shall be labeled "220523.00-SD-01".

Ball valves - 2 inch and smaller: Lead-Free, 150 psi @ 250°F minimum pressure rating, cast bronze body, blowout-proof stem. Butterfly Valves - 3" and up: Ductile Iron Butterfly Valve, 200 WOG, Lug Body, Lever Operator. Approved Manufacturers: Milwaukee Valve, NIBCO, and Watts Water Technologies Co. Valves to conform to: MSS-SP-110 Type I MSS-SP-67 Type I, NSF/ANSI -61/372. Check valves - to be same size as system piping it accompanies. Lead-free, bronze body, 250 WOG, non-shock, spring check valve. Conforms to the following standard(s): MSS-SP-80 I, NSF/ANSI -61/372

**22 05 29.00 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT GENERAL**

Provide hangers, supports, clamps, attachments, and structural steel members where required to support piping and equipment from building structure. Support of piping from the decking or equipment is prohibited. Arrange for grouping of parallel runs of horizontal piping supported together on field-fabricated, heavy-duty trapeze hangers where possible. Trapeze hangers shall conform to: MSS SP-69, Type 59. Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation. Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers. Hangers shall be sized to allow insulation to pass through unobstructed. Hanger and support types: Hangers: Provide adjustable, Steel Clevis Hangers (MSS Type 1) for suspension of noninsulated or insulated, stationary pipes. Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation. Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers. Hangers and supports shall be placed at all changes in direction, valves and equipment. The maximum horizontal spacing of cast-iron pipe hangers can be 10' where 10-foot lengths of pipe are installed. Piping shall also be supported at each change in direction, valves and equipment. Clevis-type hangers shall and supports shall conform to: MSS SP-58, Type 1-58.

**22 05 53.00 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT PIPING** 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 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 domestic hot water return piping, associated fittings and valves with 1" wall thickness 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: Armstrong World Industries, Inc., Owens-Corning Fiberglass Corp., Johns Manville. ADHESIVES Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated. Insulation for handicap accessible fixtures

**22 05 17.00 - SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING** SLEEVES Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.

**EXECUTION** Install steel pipe sleeves two sizes larger than pipes passing through floors, rated walls, building foundation walls or masonry construction. Sleeves are not required for core drilled holes.

For sleeves that will have sleeve-seal systems installed, select sleeves of size large enough to provide 1-inch annular clear space between piping and concrete slabs and walls.

Install sleeves in concrete floors, concrete roof slabs, and concrete walls as new slabs and walls are constructed. Permanent sleeves are not required for holes in slabs formed by molded-PE or -PP sleeves. Cut sleeves to length for mounting flush with both surfaces. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level. Using grout, seal the space outside of sleeves in slabs and walls without sleeve-seal system.

Install sleeves for pipes passing through interior partitions. Cut sleeves to length for mounting flush with both surfaces.

Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation. Seal annular space between sleeve and piping or piping insulation; use joint sealants appropriate for size, depth, and location of joint.

Seal sleeves and piping with material rating equivalent to the wall rating. Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials where required.

**22 05 23.00 - GENERAL DUTY VALVES** Submittal Requirements Product Data: For each type of product indicated. GENERAL Provide stops or isolation valves on domestic water supplies to isolate hot and cold water to each fixture, including all equipment and equipment provided by others. Access shall be provided to all valves. Provide fire-rated access panel(s) to maintain full access to concealed valves.

Ball valves - 2 inch and smaller: Lead-Free, 150 psi @ 250°F minimum pressure rating, cast bronze body, blowout-proof stem. Butterfly Valves - 3" and up: Ductile Iron Butterfly Valve, 200 WOG, Lug Body, Lever Operator. Approved Manufacturers: Milwaukee Valve, NIBCO, and Watts Water Technologies Co. Valves to conform to: MSS-SP-110 Type I MSS-SP-67 Type I, NSF/ANSI -61/372. Check valves - to be same size as system piping it accompanies. Lead-free, bronze body, 250 WOG, non-shock, spring check valve. Conforms to the following standard(s): MSS-SP-80 I, NSF/ANSI -61/372

**22 15 16.00 - DOMESTIC WATER PIPING Submittal Requirements**

Product Data: For each type of product indicated. GENERAL Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction or AWWA C651, whichever is more rigorous. Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades. Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi inside the building. DOMESTIC WATER PIPING ABOVE GROUND: Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints. Solder Filler Metals: ASTM B 32, lead-free alloys. Flux: ASTM B 813, water flushable. Type "L", copper pressure-seal joint; and pressure-seal joint systems. CATHODIC PROTECTION Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

**22 15 19.00 - DOMESTIC WATER PIPING SPECIALTIES Submittal Requirements** Product Data: For each type of product indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Conbraco Industries, Inc., Watts Water Technologies Co., Zum Industries, LLC, Thermomegatech, Acorn Engineering Co., and Caleffi, N. America., MITAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal. BALANCING VALVES Provide balancing valves where required for proper balancing of water systems as shown on the contract documents. Balancing valves shall be equal to Red-White Valve Corporation model 9517AB (NPT) or model 9519 (solder). Valve shall have brass body, globe valve regulation and isolation properties, fixed office design for precise measurement, integral memory stop to ensure repeatable setting, full shutoff without affecting memory settings, high and low pressure metering points, precision indicator windows, rugged top set hand-wheel assembly, pressure rating of 300 psi, and temperature rating of 15 deg. F to 260 deg. F. STRAINERS Provide lead-free wye-pattern strainer rated for 125 psig minimum, bronze body, threaded connections, stainless steel screen with round perforations of 0.020 inch and pipe plug drain. Provide strainers on supply side of each pressure reducing valve, solenoid valve and pump. WATER HAMMER ARRESTERS Provide water-hammer arresters in water piping according to PDI-WH 201. Standard: ASSE 1010 or PDI-WH 201. Type: Metal bellows or copper tube with piston. Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes A through F.

**22 15 23.00 - RECIRCULATION DOMESTIC WATER PUMP Submittal Requirements** Product Data: For each type of product indicated. GENERAL Hot-water circulating pump shall be constructed of the following: in-line wet-rotor, lead-free bronze body, plastic impeller, with ceramic bearings. Working pressure to be a minimum 125 psig with a maximum continuous operating temperature of 220° F. Pump shall be controlled with an aquastat and timer. Aquastat: Electric; surface mounted sensing element. Adjustable temperature control of hot-water circulation from 65 to 200 °F. Timer: Electric; for control of hot-water circulation. Programmable type, seven-day, twenty-four hour clock with manual override on-off switch, Programmable for pre-set times during the day for each day for seven days. Approved Manufacturers: Armstrong Pumps Inc, Bell & Gossett/Goulds Water Technology; Xylem Inc., Taco inc., Honeywell International inc. Pumps shall conform to: UL 778, NSF 61/372.

**22 15 26.00 - 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 Solid wall schedule 40 PVC pipe and fittings 1-1/2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to

All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Proflo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation shall have a cleatout nut cap to allow service to the trap without disassembly. For stops, the insulation shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall remain substantially out of sight. Manufacturers: subject to compliance with requirements: Proflo, Truebro, Plumberex

**22 15 26.00 - DOMESTIC WATER PIPING Submittal Requirements**

Product Data: For each type of product indicated. GENERAL Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction or AWWA C651, whichever is more rigorous. Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades. Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi inside the building. DOMESTIC WATER PIPING ABOVE GROUND: Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints. Solder Filler Metals: ASTM B 32, lead-free alloys. Flux: ASTM B 813, water flushable. Type "L", copper pressure-seal joint; and pressure-seal joint systems. CATHODIC PROTECTION Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

**22 15 19.00 - DOMESTIC WATER PIPING SPECIALTIES Submittal Requirements** Product Data: For each type of product indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Conbraco Industries, Inc., Watts Water Technologies Co., Zum Industries, LLC, Thermomegatech, Acorn Engineering Co., and Caleffi, N. America., MITAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal. BALANCING VALVES Provide balancing valves where required for proper balancing of water systems as shown on the contract documents. Balancing valves shall be equal to Red-White Valve Corporation model 9517AB (NPT) or model 9519 (solder). Valve shall have brass body, globe valve regulation and isolation properties, fixed office design for precise measurement, integral memory stop to ensure repeatable setting, full shutoff without affecting memory settings, high and low pressure metering points, precision indicator windows, rugged top set hand-wheel assembly, pressure rating of 300 psi, and temperature rating of 15 deg. F to 260 deg. F. STRAINERS Provide lead-free wye-pattern strainer rated for 125 psig minimum, bronze body, threaded connections, stainless steel screen with round perforations of 0.020 inch and pipe plug drain. Provide strainers on supply side of each pressure reducing valve, solenoid valve and pump. WATER HAMMER ARRESTERS Provide water-hammer arresters in water piping according to PDI-WH 201. Standard: ASSE 1010 or PDI-WH 201. Type: Metal bellows or copper tube with piston. Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes A through F.

**22 15 23.00 - RECIRCULATION DOMESTIC WATER PUMP Submittal Requirements** Product Data: For each type of product indicated. GENERAL Hot-water circulating pump shall be constructed of the following: in-line wet-rotor, lead-free bronze body, plastic impeller, with ceramic bearings. Working pressure to be a minimum 125 psig with a maximum continuous operating temperature of 220° F. Pump shall be controlled with an aquastat and timer. Aquastat: Electric; surface mounted sensing element. Adjustable temperature control of hot-water circulation from 65 to 200 °F. Timer: Electric; for control of hot-water circulation. Programmable type, seven-day, twenty-four hour clock with manual override on-off switch, Programmable for pre-set times during the day for each day for seven days. Approved Manufacturers: Armstrong Pumps Inc, Bell & Gossett/Goulds Water Technology; Xylem Inc., Taco inc., Honeywell International inc. Pumps shall conform to: UL 778, NSF 61/372.

**22 15 26.00 - 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 Solid wall schedule 40 PVC pipe and fittings 1-1/2" 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. Contractor shall maintain integrity of fire ratings. Piping shall not be run in plenum spaces and contractor shall provide intumescent collars when penetrating a rated wall, floor, or other assembly. Piping alignment shall be as indicated on the drawings using approved wye branches or right 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 right 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 19.00 - SANITARY WASTE PIPING SPECIALTIES Submittal Requirements** Product Data: For each type of product indicated. [CLEANOUTS [Floor cleanout equal to Zurn Z-1400 adjustable floor cleanout.] [Wall cleanout equal to Zurn Z-1443 with smooth nickel bronze square wall access panel and frame.] [Grade cleanout equal to Zurn Z-1400 adjustable cleanout.] Provide a sanitary tee with threaded cap cleanout plug for changes-in-direction in aboveground horizontal waste piping. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Jay R Smith MFG. Co., Watts Drainage Products Inc., Zurn Plumbing Products Group.] [FLOOR DRAINS Provide floor drains in compliance with ASME A112.6.3. Provide floor drains with trap-seal primer fitting. All floor drains located in rooms with tile floors shall be provided with manufacturer's standard square grate, unless noted otherwise. Refer to plumbing drain schedule for project specific floor drain manufacturers and models. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Jay R Smith MFG. Co., Watts Drainage Products Inc., Zurn Plumbing Products Group.] [FLOOR SINKS Provide floor sinks in compliance with ASME A112.6.7. All floor sinks shall have a cast iron body unless noted otherwise. All floor sinks located in a commercial kitchen to have a half grate cover unless noted otherwise. Refer to plumbing drain schedule for project specific floor drain manufacturers and models. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Jay R Smith MFG. Co., Watts Drainage Products Inc., Zurn Plumbing Products Group.]

**22 33 00.00 - COMMERCIAL ELECTRIC, DOMESTIC WATER HEATERS Submittal Requirements** Product Data: For each type of product indicated. TANK TYPE Provide commercial electric tank type water heater as scheduled. Comply with UL 1453 Standard. Provide corrosion resistant metal drain pan with raised edges at the base of the water heater and include drain outlet. Provide field fabricated piping heat trap arrangement according to ASHRAE/IESNA 90.1. Provide combination temperature and pressure relief valve, ASME rated and stamped with relieving capacity at least as great as heat input and pressure setting less than water heater's rated operating pressure. Provide steel pressure-rated thermal expansion tank constructed with welded joints and factory-installed butyl rubber diaphragm, pre-charged to minimum system operating pressure at tank. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following: Bock Water Heaters, Bradford White Corp., Lochinvar Corp., State Industries.

**22 40 00.00 - PLUMBING FIXTURES 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. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following: American Standard, Kohler Co., Zurn Industries, LLC.



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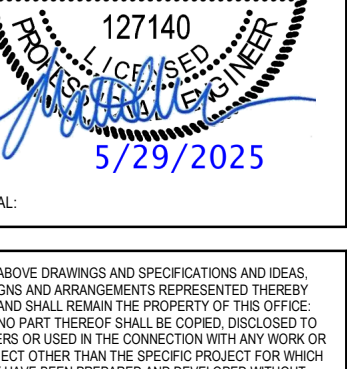
STATE OF TEXAS  
MATTHEW C. DEEBECK  
127140  
Professional Engineer  
5/29/2025



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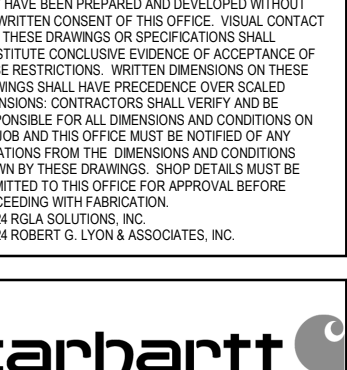


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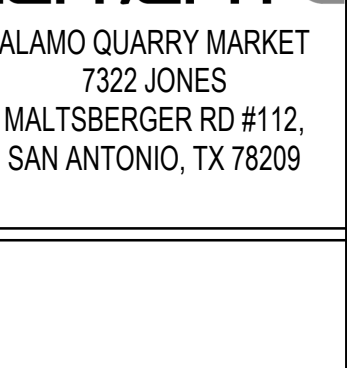
carhartt

ALAMO QUARRY MARKET  
7322 JONES  
MALTSBERGER RD #112,  
SAN ANTONIO, TX 78209



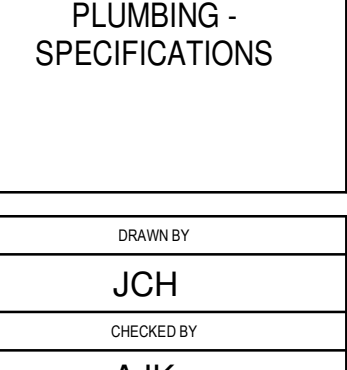
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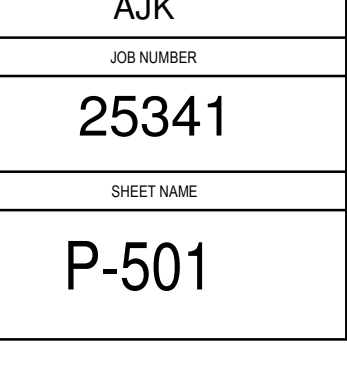
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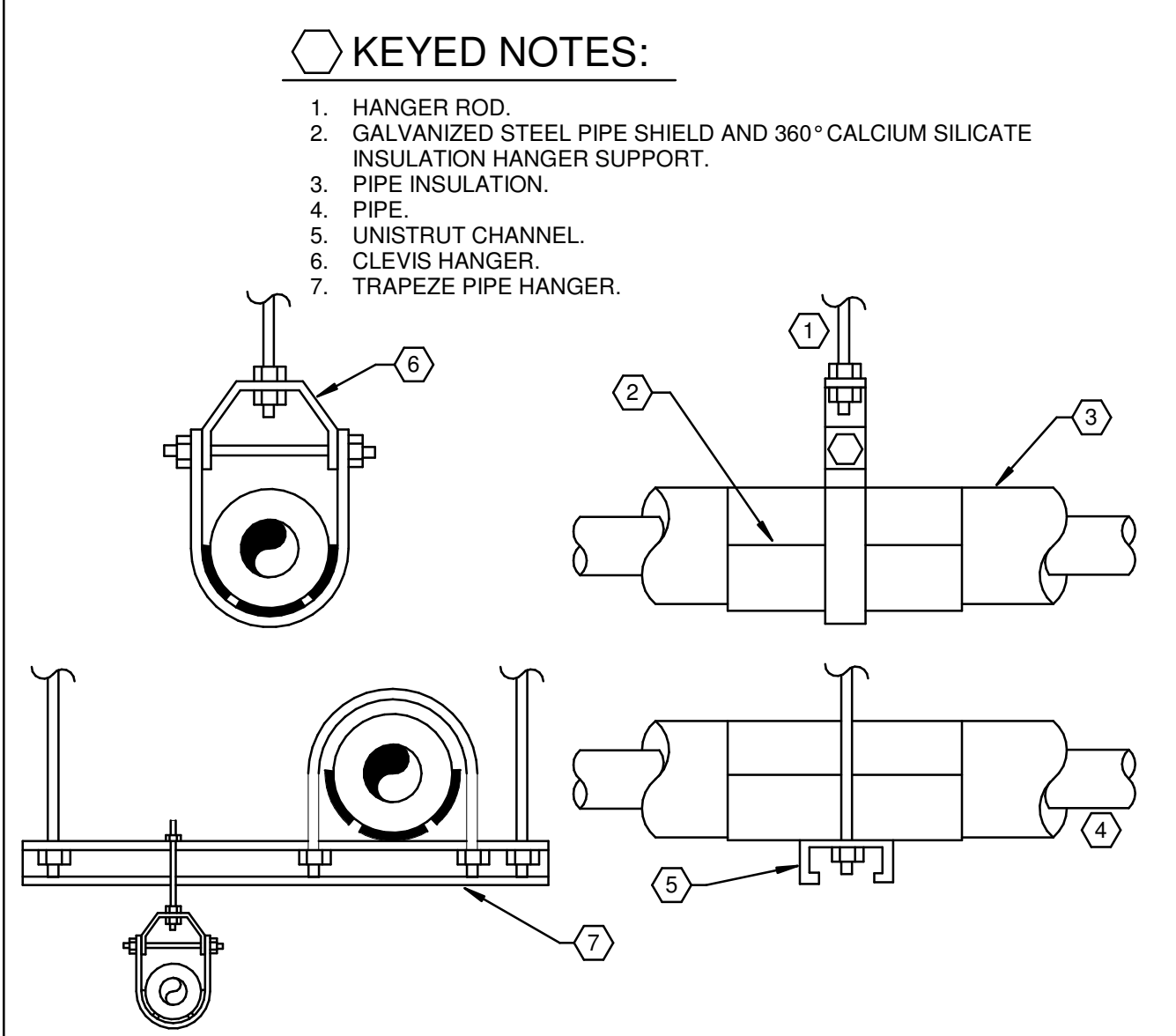


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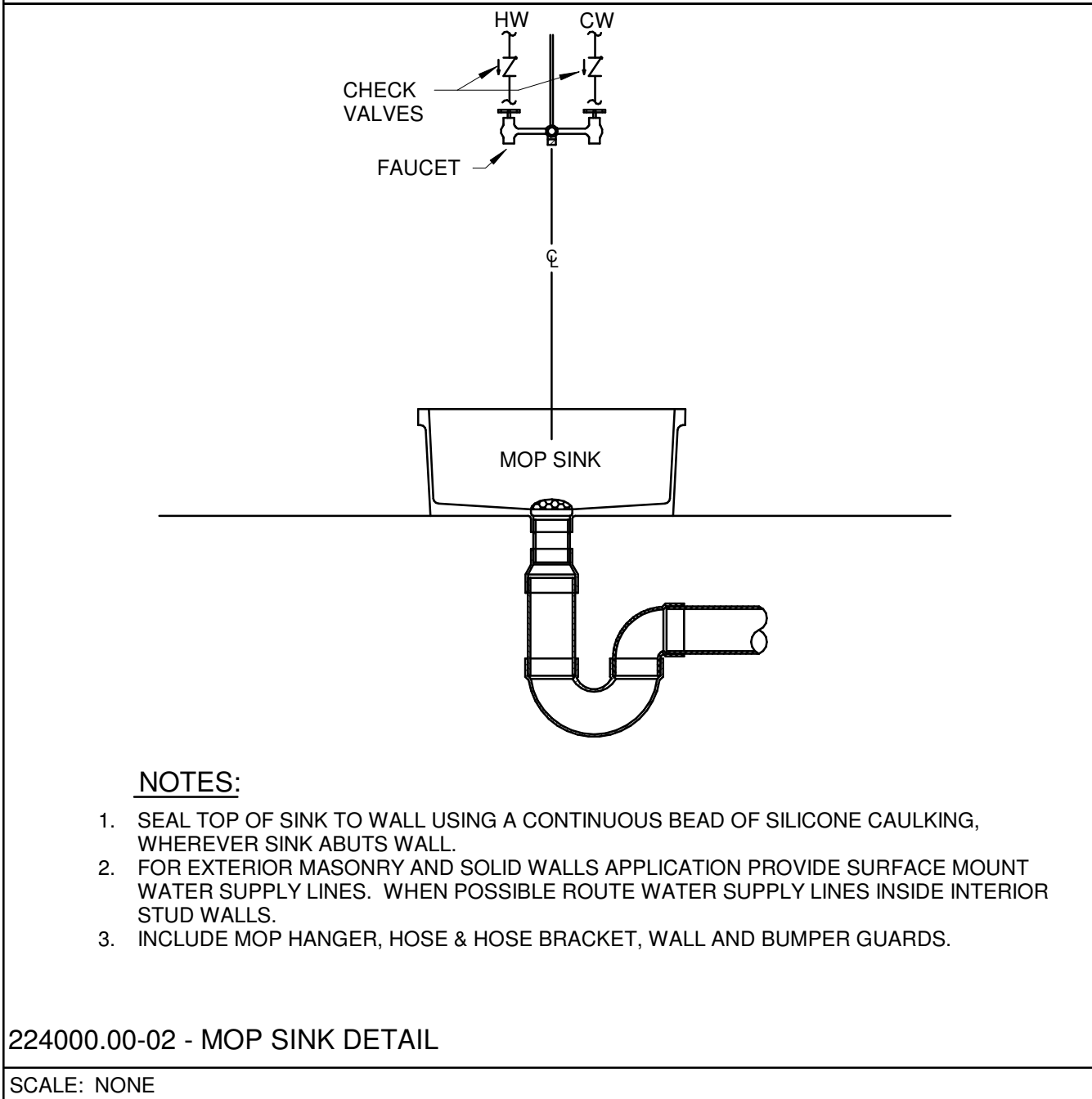


OWNERSHIP OF INSTRUMENTS OF SERVICE  
The Consultant shall retain the ownership of all instruments of service, including but not limited to, drawings, specifications, schedules, and other documents prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.



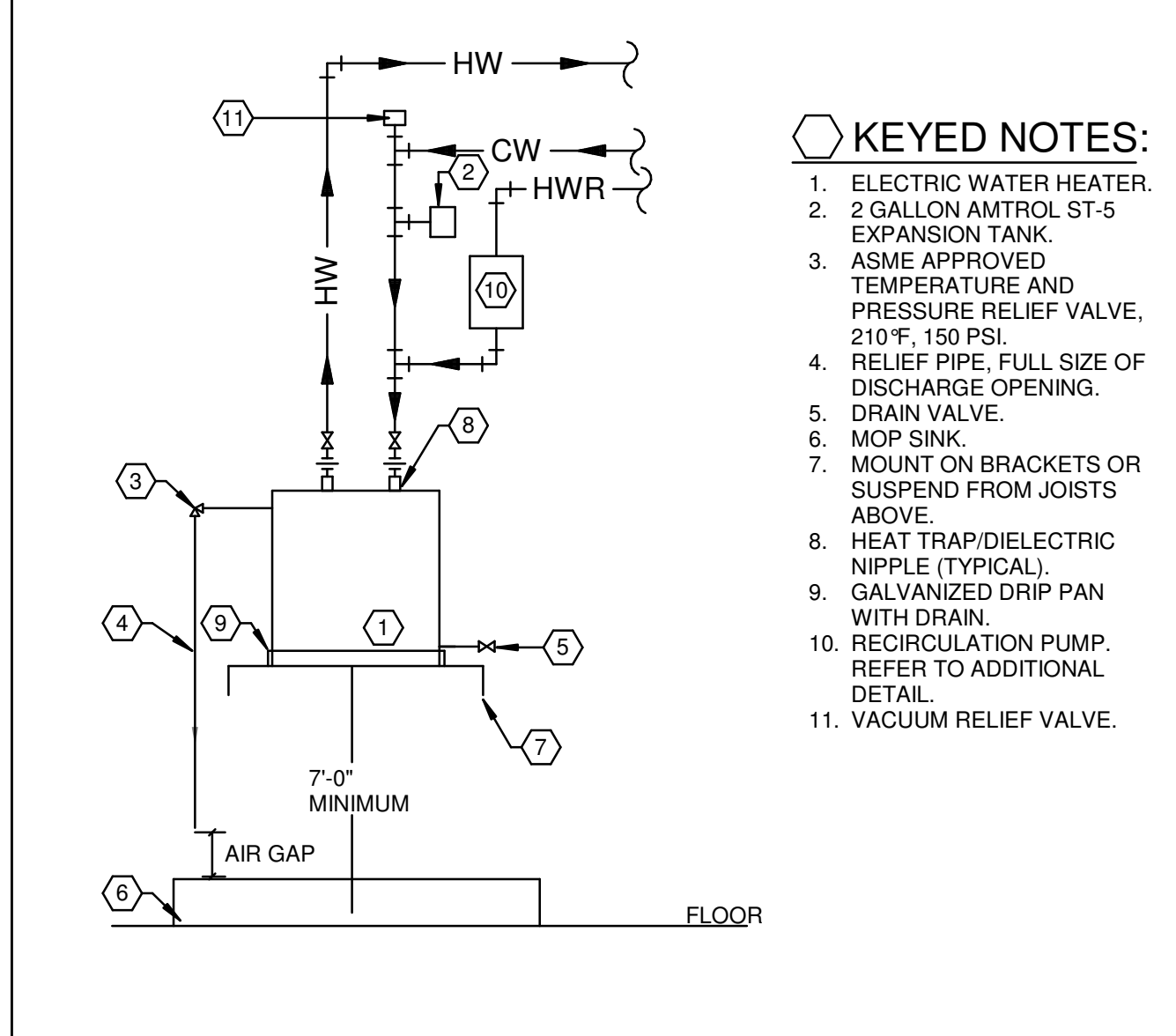
220529.00-01 - PLUMBING PIPE HANGER INSTALLATION

SCALE: NONE



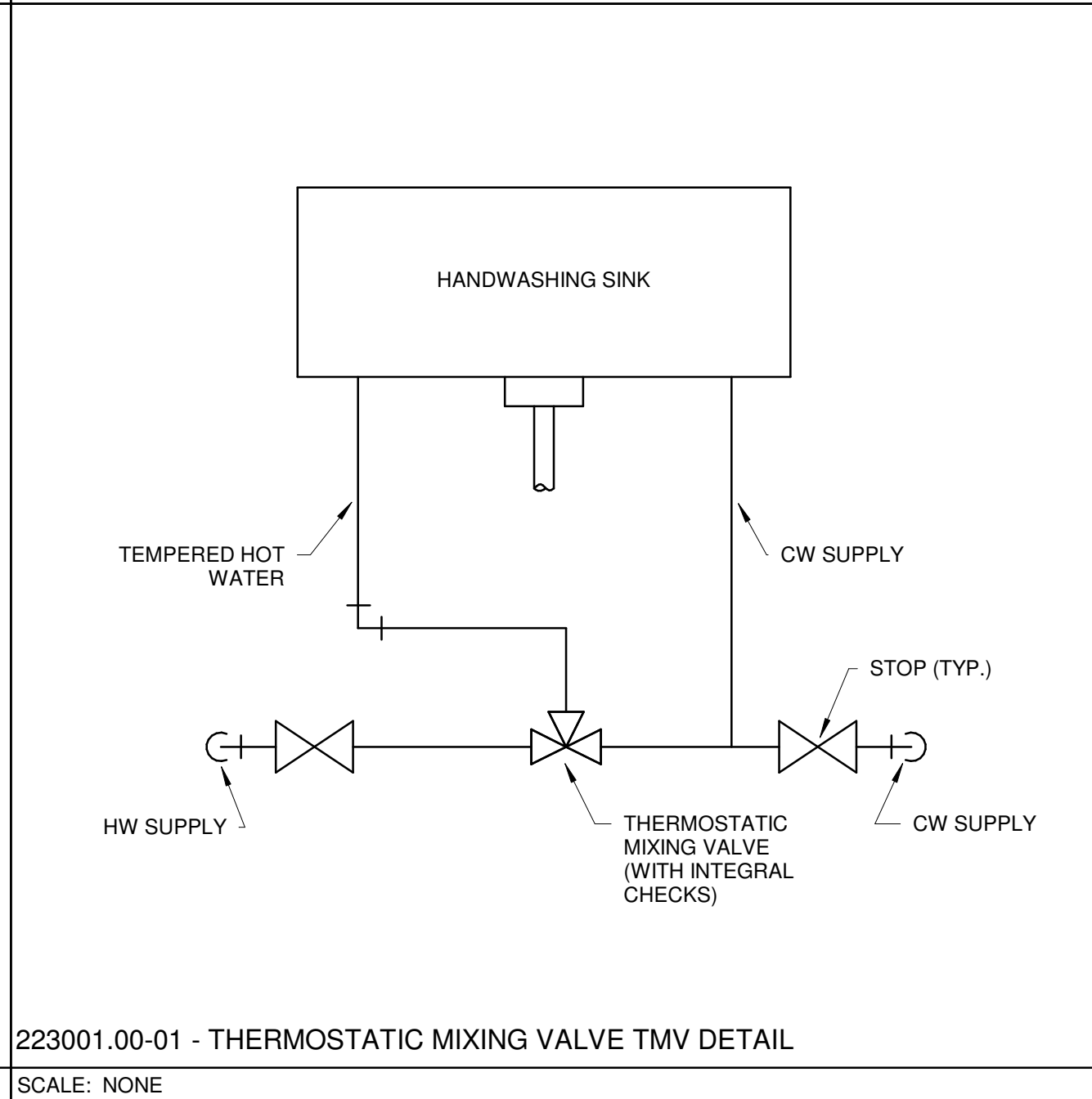
224000.00-02 - MOP SINK DETAIL

SCALE: NONE



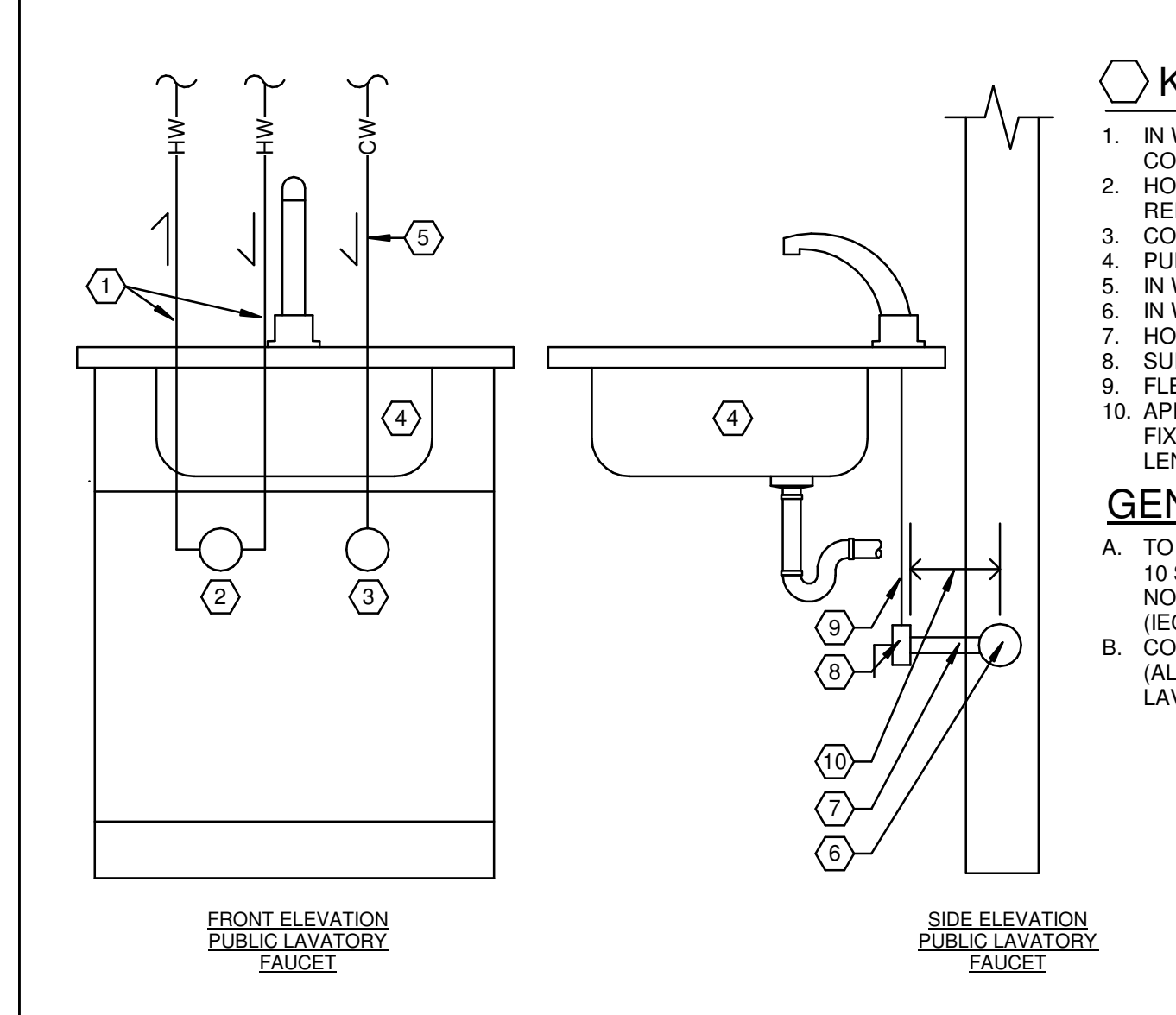
223300.00-01 - SHELF MOUNTED ELECTRIC WATER HEATER

SCALE: NONE



223001.00-01 - THERMOSTATIC MIXING VALVE TMV DETAIL

SCALE: NONE



221116.00-03 - IECC COMPLIANT PUBLIC LAVATORY FAUCET DETAIL

SCALE: NONE

DOMESTIC HOT WATER CIRCULATION PUMP SCHEDULE											
PRODUCT						GENERAL			MISC	FLOW INFORMATION	
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	ENTERING PSTS (P516)	LEAVING PSTS (P516)	LOCATION	STATUS	ACCESSORIES	FLUID FLOW
CP1	DOMESTIC HOT WATER CIRCULATION PUMP	TACO	SMARTPLUS 006	7	22 11 23.00	--	--	REFER TO PLAN	NEW	--	11

MOP SINK SCHEDULE											
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS	
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE MFG	FIXTURE MODEL	DFU	MSFU
MS1	MOP SINK	FIAT	MSR102424	22 40 00.00	REFER TO PLAN	NEW	--	FIAT	630AA	2	3

TANK TYPE WATER CLOSET SCHEDULE											
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS	
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE MFG	FIXTURE MODEL	DFU	MSFU
WC1	TANK TYPE WATER CLOSET	ZURN	Z3560	22 40 00.00	--	NEW	FURNISH ADA CLOSET AND TANK. ADA OPEN FRONT SEAT. SELF-SUSTAINING HINGE, FLOOR FLANGE, CLOSET BOLTS AND CAPS, WAX RINGS, SUPPLY STOPS AND TUBE FLUSH CONTROL. MUST BE LOCATED ON THE WIDE ACCESS SIDE OF THE WC (OPPOSITE OF THE WALL).	--	--	--	--

LAVATORY SCHEDULE											
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS	
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE MFG	FIXTURE MODEL	DFU	MSFU
LV1	LAVATORY	AMERICAN STANDARD	0124024.020 COMRADE WALL-MOUNT SINK	22 40 00.00	REFER TO PLAN	NEW	FURNISH LAVATORY, SUPPLY STOPS AND TUBES, DRAIN AND ADA TYPING PROTECTION. PROVIDE TOUCHLESS FAUCET.	AMERICAN STANDARD	7025.103	1	2

TANK TYPE ELECTRIC WATER HEATER SCHEDULE											
PRODUCT					GENERAL		MISC	ELECTRICAL		DESIGN CONDITIONS	
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	LOCATION	STATUS	EFFICIENCY	ENT	LMT	PRODUCT
WH1	TANK TYPE ELECTRIC WATER HEATER	AO SMITH	DEL-20	240	22 33 00.00	20	--	ABOVE MOP SINK	NEW	--	WH1

DRINKING FOUNTAIN SCHEDULE											
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS	
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE MFG	FIXTURE MODEL	DFU	MSFU
DF1	DRINKING FOUNTAIN	ELKAY	L2STLBSLK	22 40 00.00	REFER TO PLAN	NEW	WITH BOTTLE FILLER AND CANE APON	--	--	--	--

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127140  
REGISTERED PROFESSIONAL ENGINEER  
5/29/2025

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PLUMBING - DETAILS & SCHEDULES

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