

#### CODED NOTES NOTE: ALL CODED NOTES MAY NOT APPEAR ON EVERY SHEET

1 EXISTING WALL CONSTRUCTION TO BE REMOVED UP TO HEIGHT OF EXISTING SOFFIT ABOVE ADJACENT WINDOWS. 2 EXISTING CMU AND METAL FRAMED DISPLAY CAST TO BE REMOVED IN ITS ENTIRETY. 3 EXISTING WOOD DOOR AND HOLLOW METAL FRAME TO BE REMOVED. 4 PORTION OF EXISTING MASONRY WALL TO BE REMOVED. 5 EXISTING GLASS AND HOLLOW METAL FRAME SYSTEM TO BE REMOVED INCLUDING INTEGRAL DOOR. EXISTING SOFFIT ABOVE TO REMAIN 6 EXISTING CARPET TO BE REMOVED. PREPARE FLOOR FOR NEW FINISH MATERIAL. 7 EXISTING 'TICKET OFFICE' SIGN TO BE REMOVED. 8 EXISTING HARDWARE TO BE REMOVED. PREP DOOR TO RECEIVE NEW HARDWARE. EXISTING DOOR AND FRAME TO REMAIN 9 PORTION OF GYPSUM BOARD AND METAL STUD WALLS TO BE REMOVED AS INDICATED

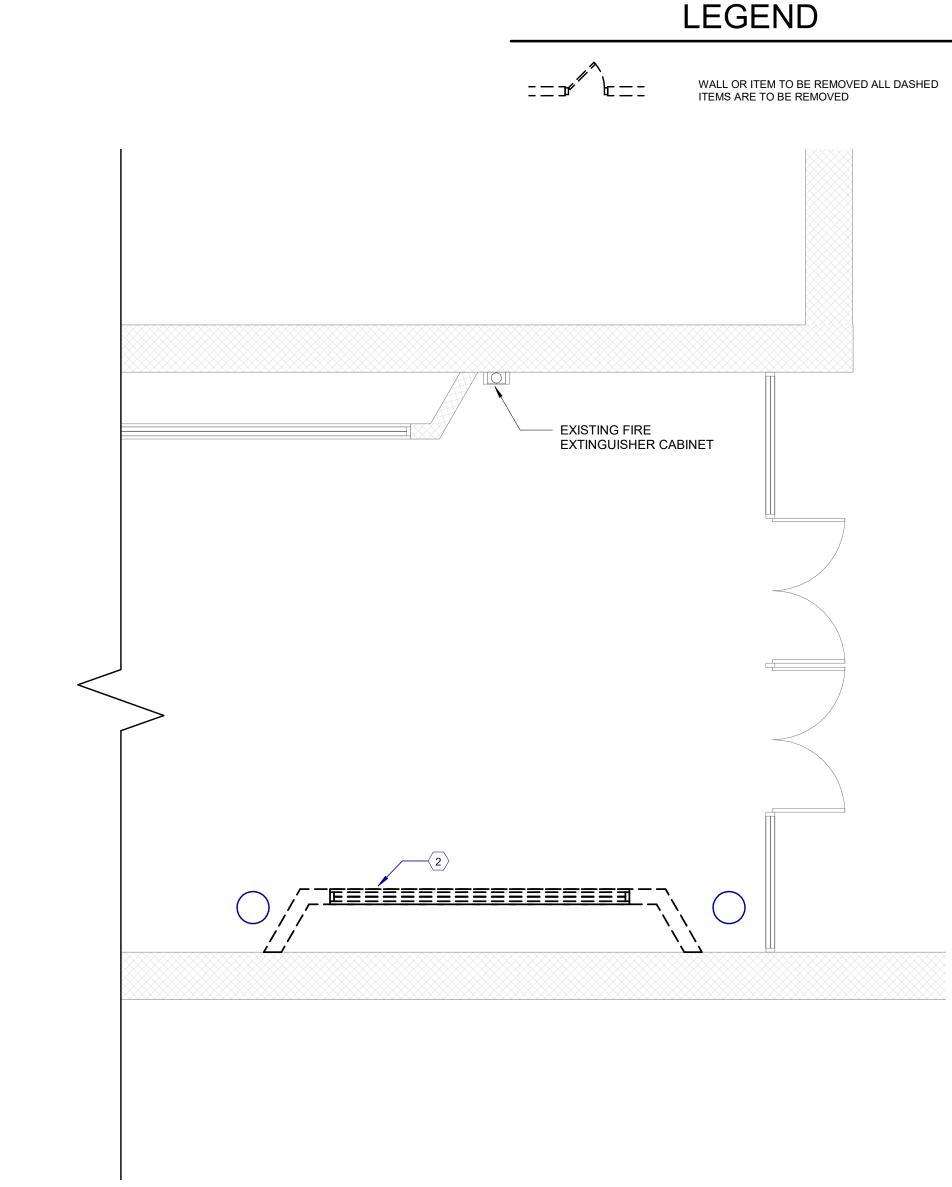
### GENERAL NOTES

- 1. MAINTAIN BUILDING IN WEATHERTIGHT CONDITION AT ALL TIMES. 2. NOTIFY ARCHITECT PRIOR TO DEMOLITION IF ITEM INDICATED TO BE
- REMOVED IS SUSPECTED AS STRUCTURAL ELEMENT. 3. ALL STRUCTURAL MEMBERS ARE TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
- 4. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO ADJACENT AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE
- INCURRED. 5. TEMPORARY PARTITIONS ARE TO BE ERECTED PRIOR TO COMMENCEMENT OF DEMOLITION WORK AND ARE TO REMAIN IN PLACE UNTIL WORK IS
- COMPLETED, UNO. REFER TO PROJECT MANUAL FOR REQUIREMENTS. 6. ALL DEMOLITION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION OF NORMAL DAILY ACTIVITIES IN THE PROJECT AREA.
- 7. ALL DEMOLISHED ITEMS ARE TO REMAIN THE PROPERTY OF THE OWNER AT THEIR DISCRETION. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. IN ADDITION, SEE CODED NOTES FOR ITEMS TO BE REMOVED AND TURNED OVER TO THE OWNER.
- 8. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS FOR REQUIRED DEMOLITION AND RELATED WORK.
- 9. RESUPPORT EXISTING CONDUIT, PIPING AND EQUIPMENT TO REMAIN AS REQUIRED DUE TO DEMOLITION.
- 10. WALLS ARE GYPSUM BOARD ON METAL STUDS UNLESS NOTED OTHERWISE. REMOVE ENTIRE WALL TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE.
- 11. REMOVE FLOORING AND BASE WHERE NEW FINISHES ARE INDICATED AND AS NOTED. PATCH AND REPAIR SUBSTRATES FOR NEW FINISHES. FLOORING/BASE TO BE REMOVED IS \_\_\_\_ WITH \_\_\_\_ BASE UNLESS NOTED

OTHERWISE.

- 12. REMOVE CEILING WHERE NEW CEILINGS ARE INDICATED AND AS NOTED. REMOVE ALL UNUSED AND ABANDONED FASTENERS, SUPPORTS, BRACKETS, HANGERS, ETC., ABOVE THE CEILING. PATCH AND REPAIR WALL SURFACES FOR NEW CEILING INSTALLATION. CEILING TO BE REMOVED IS ACOUSTICAL PANEL CEILING UNLESS NOTED OTHERWISE.
- 13. IN DEMOLITION AREAS, REMOVE ALL MISCELLANEOUS ITEMS ON WALLS INCLUDING TACKBOARDS, TOILET ACCESSORIES, CORNER GUARDS AND OTHER WALL MOUNTED ITEMS, UNLESS NOTED OTHERWISE. 14. PATCH ALL EXISTING ADJACENT INTERIOR FINISHES TO REMAIN AS
- UNDISTURBED BY THE DEMOLITION TO MATCH ADJACENT SURFACES. 15. FILL AND LEVEL ALL HOLES IN FLOORS AND WALLS AFTER REMOVAL OF

PIPES, DUCTS, CONDUIT AND OTHER PENETRATING ITEMS. MAINTAIN REQUIRED FIRE RATINGS.



1 SOUTH ENTRANCE DEMOLITION PLAN SCALE: 1/4" = 1'-0"



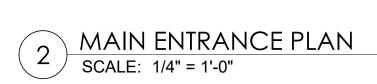


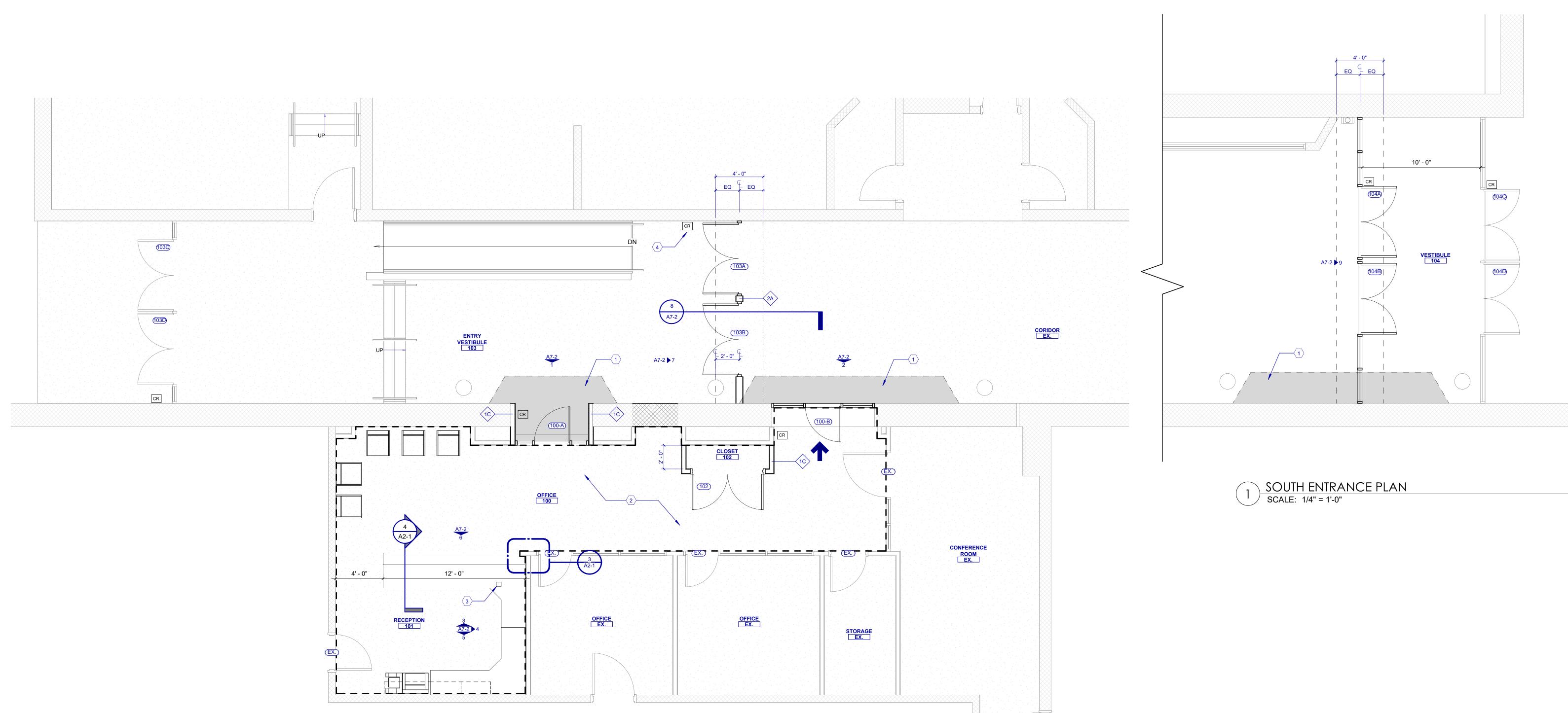


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PROJECT NO. 23077.00		











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		S	TEEL FR	AMED IN	TERIOR I	PARTITIO	N SCHE	DULE		
			G	GYPSUM BOARD		STUD TYPES			FIRE RATING	
		PLAN		NO. OF LAYERS / THICKNESS				TOTAL	HOUR	
WALL TYPE	SPECIAL CONSTRUCTION	DETAIL	TYPE	SIDE 1	SIDE 2	DEPTH	SHAPE	WIDTH	RATING	ASSEMBLY NO.
1. STUD WALL										
1C				(1) 5/8"	(1) 5/8"	3 5/8"	С	4 7/8"		
2A				(1) 5/8"	(1) 5/8"	6"	С	7 1/4"		

### DOOR & FRAME SCHEDULE

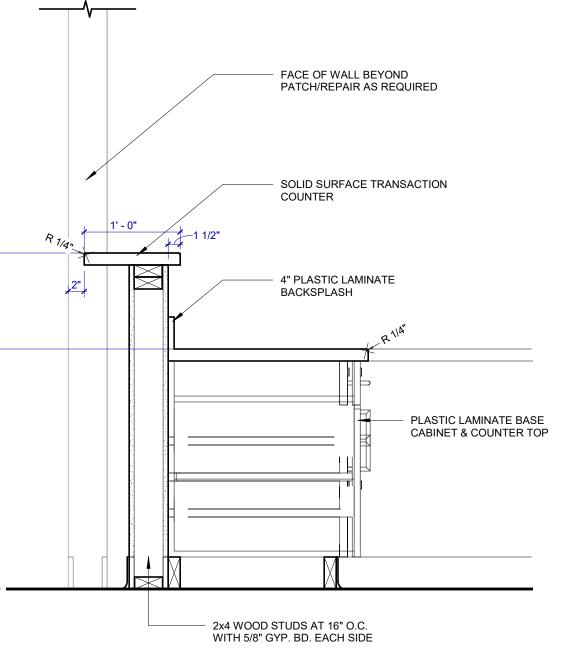
	DOOR OPENING DOOR PANEL INFORMATIC				ON	FRAME		FIRE	HARDWARE				
NO.	WIDTH	HEIGHT	MAJO	MAJOR LEAF		OR LEAF	MATERIAL	TYPE	MATERIAL		SET #	DETAILS	REMARKS
			TYPE	WIDTH	TYPE	WIDTH		TIFE					
00-A	3' - 0"	6' - 8"											
00-B	3' - 0"	6' - 8"											
04A	6' - 0"	6' - 8"	D	3' - 0"	D	3' - 0"	ALUM			0			
04B	6' - 0"	6' - 8"	D	3' - 0"	D	3' - 0"	ALUM			0			
102	6' - 0"	7' - 0"	A	3' - 0"	Α	3' - 0"	WOOD	F1	HM	0			
03A	6' - 0"	6' - 10"	D	3' - 0"	D	3' - 0"	ALUM			0			
03B	6' - 0"	6' - 10"	D	3' - 0"	D	3' - 0"	ALUM			0			

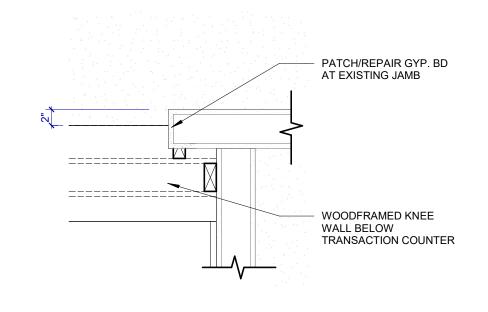




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TERAZZO FLOORING & INTERGRAL WALL BASE. MATCH EXISTING ADJACEN COMPOSITION
NEW TERRAZZO TILE FLOOR AND RUBER COVE BASE COORDINATE MATERI MANUFACTURER AND COLOR WITH OWNER
PUSH BUTTON FOOR 100A LOCK RELEASE. SEE ELECTRICAL DRAWINGS FO INFORMATION
NEW CARD READER LOCATION



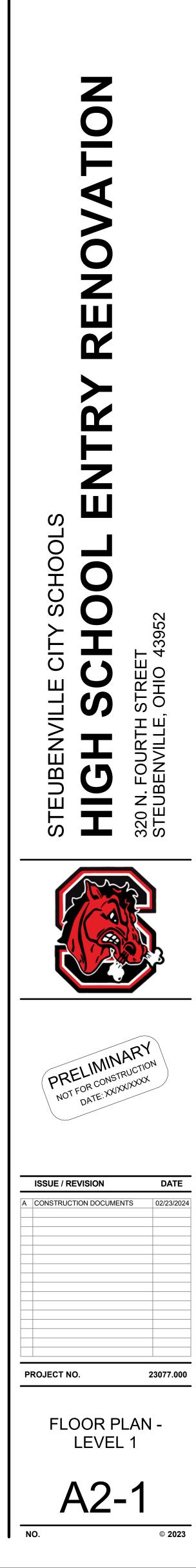


4 TRANSACTION COUNTER SECTION SCALE: 1" = 1'-0"

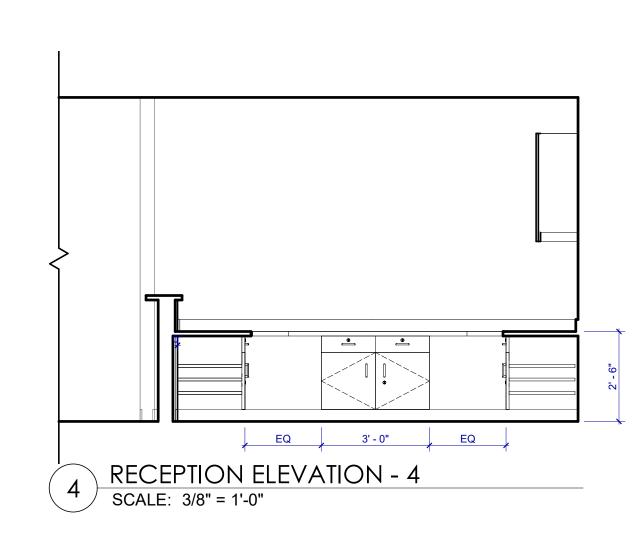


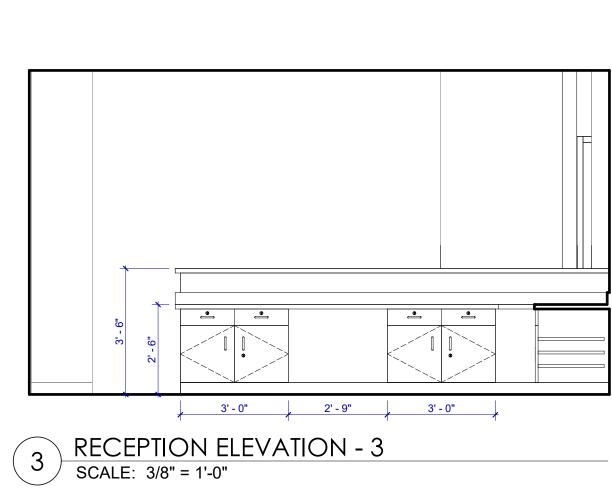
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FOR MORE	



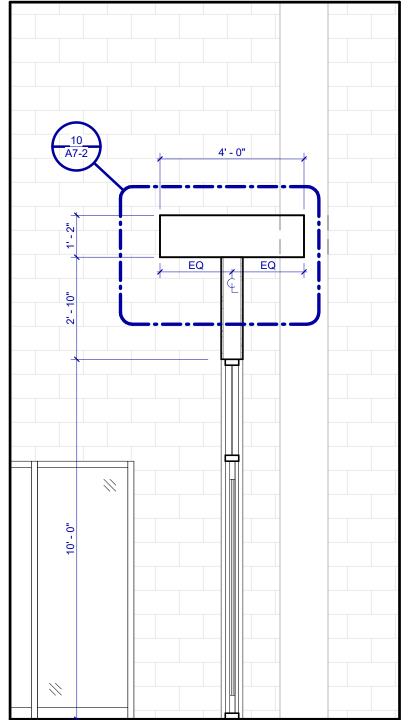


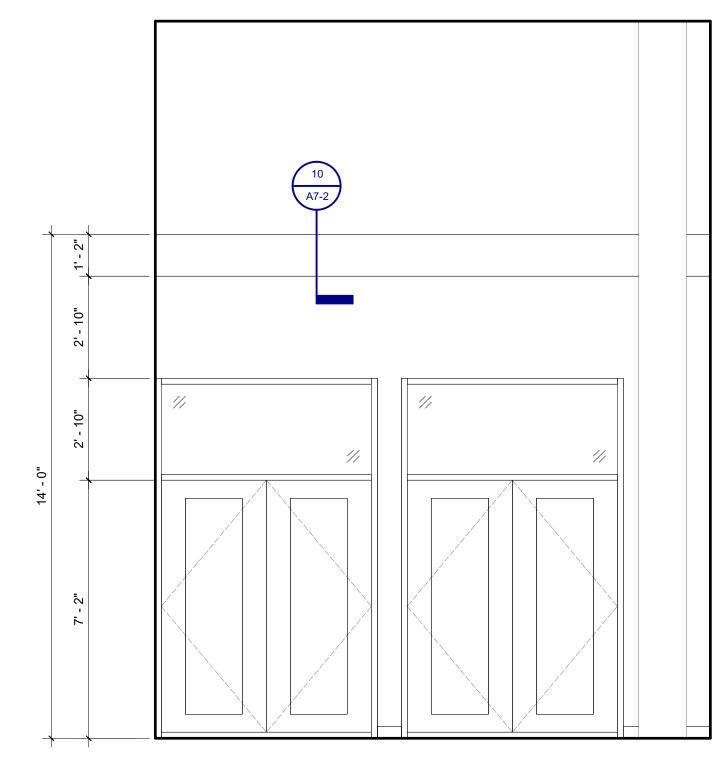


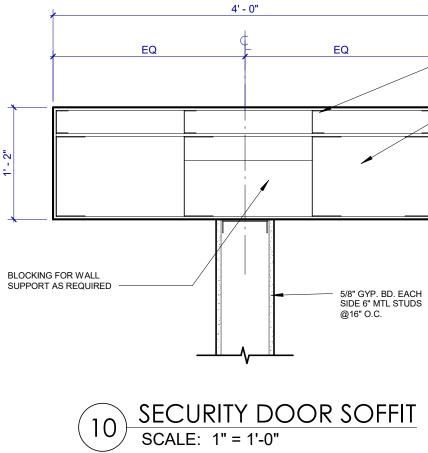




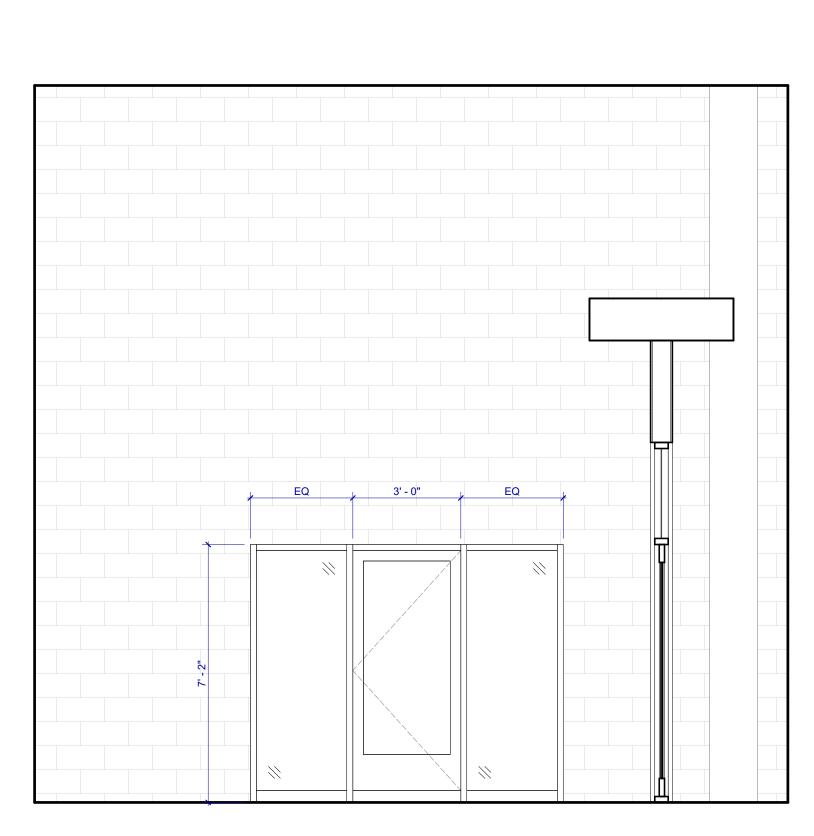








# 2 CORRIDOR ELEVATION - 2 SCALE: 3/8" = 1'-0"

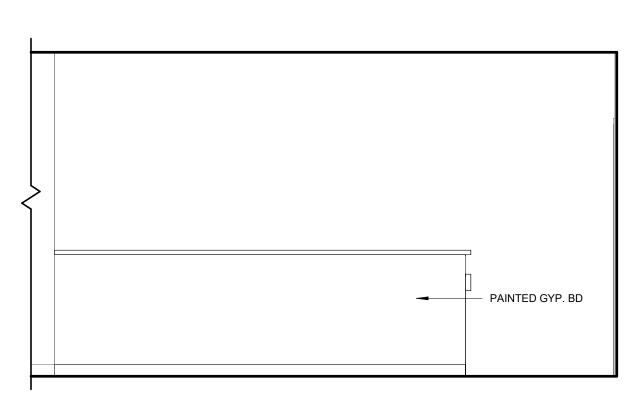


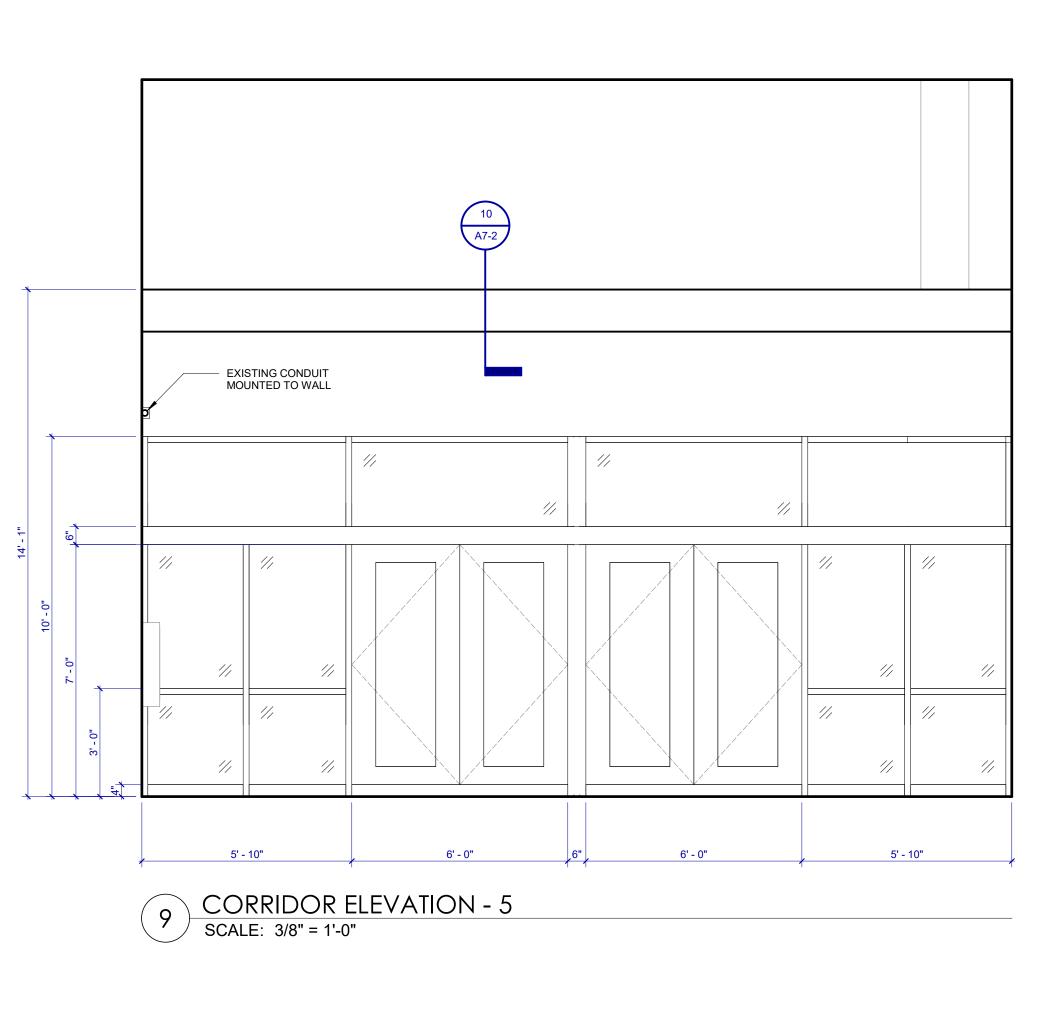
### SECURITY DOORS ELEVATION SCALE: 3/8" = 1'-0"

### 5/8" GYP. BD. EACH SIDE 6" MTL STUDS @16" O.C.

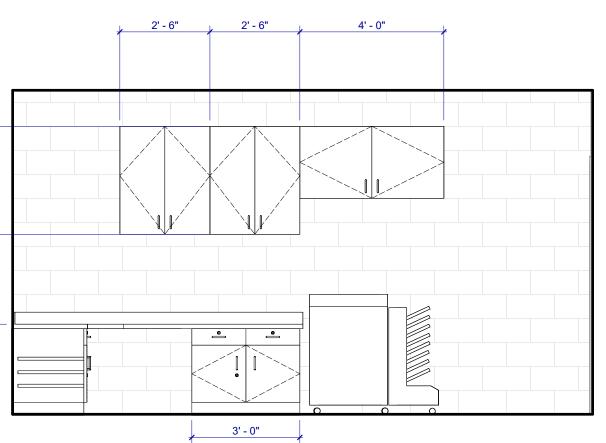
5/8" GYP. BD. O/ 3 5/8" MTL STUDS @16" O.C.
10", 18 GA. STUD ANCHORED TO WALL AT EACH END OF SHELF
5/8" GYP. BD. O/ 10" MTL STUDS @16" O.C. 10" STUD TO BE 18 GAGE

## 6 RECEPTION ELEVATION 6 SCALE: 3/8" = 1'-0"

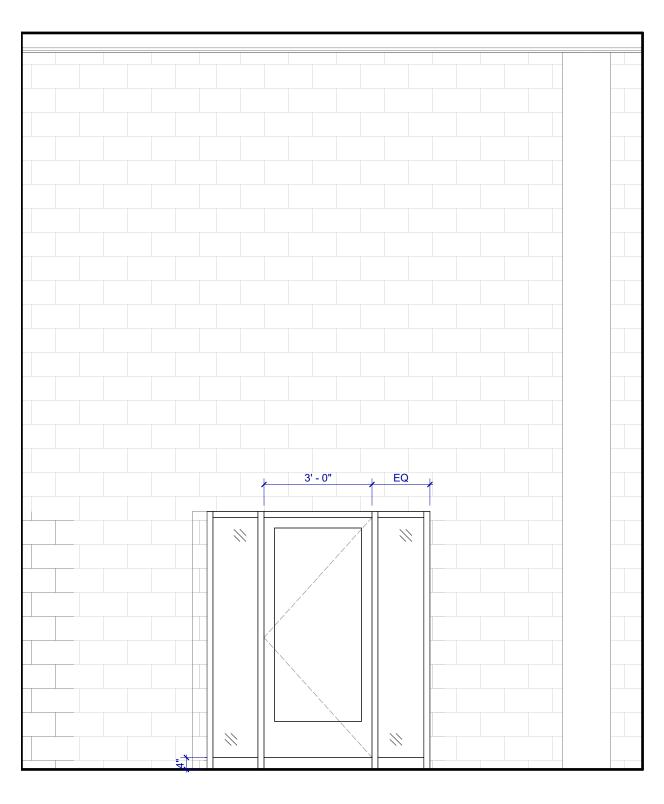




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RECEPTION ELEVATION 5 SCALE: 3/8" = 1'-0" 5



### GENERAL NOTES

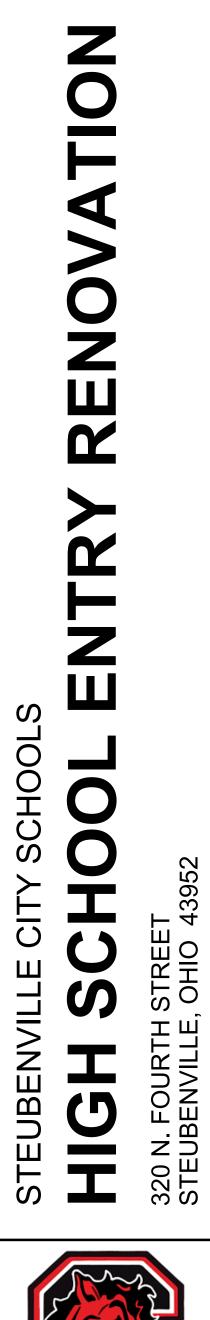
WALL-MOUNTED ACCESSORIES & EQUIPMENT: REFER TO A7-0 AND PROJECT MANUAL FOR TYPICAL WALL MOUNTED ITEMS AND HEIGHTS. REFER TO REMAINING A7 SERIES DRAWINGS FOR LOCATION-SPECIFIC MOUNTING HEIGHTS AND LOCATIONS OF ACCESSORIES, FIXTURES AND SELECT EQUIPMENT NOT INCLUDED IN THE PROJECT MANUAL. PROVIDE BLOCKING WITHIN GYPSUM BOARD PARTITIONS FOR WALL MOUNTED AND RECESSED ACCESSORIES, FIXTURES AND EQUIPMENT. 3. COORDINATE ROUGH OPENING DIMENSIONS FOR RECESSED EQUIPMENT AND ACCESSORIES WITH MANUFACTURER'S REQUIREMENTS.

MILLWORK:

- 1. REFER TO TYPICAL MILLWORK DETAILS FOR TYPICAL FASCIA/SOFFIT ABOVE CABINET DETAIL CONDITION.
- 2. OUTSIDE CORNERS OF ALL COUNTERTOPS TO HAVE 2" RADIUS U.N.O.
- 3. PROVIDE 4" BACKSPLASH AND SIDESPLASHES TO MATCH COUNTERTOP MATERIAL U.N.O.
- 4. PROVIDE PLASTIC LAMINATE FACING ON ALL EXPOSED SURFACES OF MILLWORK UNLESS NOTED OTHERWISE. 5. PROVIDE PVC EDGE BANDING FOR PLASTIC LAMINATE COUNTERTOPS AND CABINETS UNLESS NOTED OTHERWISE.
- 6. PROVIDE FILLERS FOR CABINETS AS REQUIRED. 7. BASE CABINETS AT COUNTERTOPS DEEPER THAN THE STANDARD 25" SHALL HAVE EXTENDED FINISHED ENDS FROM BACK OF BASE CABINET TO WALL
- BEYOND. FOR DRAWER UNITS, CABINET BODIES CAN REMAIN STANDARD DEPTH. FOR DOOR AND CABINET UNITS, CABINET BODY SHALL BE FULL
- PROVIDE ONE ADJUSTABLE SHELF AT ALL WALL CABINETS 24" HIGH AND SHORTER. PROVIDE TWO ADJUSTABLE SHELVES AT ALL WALL CABINETS 25" TO 36" HIGH. PROVIDE ADJUSTABLE SHELVES AS NOTED ON ELEVATIONS AT CABINETS TALLER THAN 36" HIGH. PROVIDE ONE ADJUSTABLE SHELF AT ALL BASE CABINETS U.N.O.
- ALL CABINETRY, DOORS AND DRAWERS, WHETHER THEY ARE SCHEDULED TO RECEIVE LOCKS OR NOT ARE TO RECEIVE GROOVE FOR FUTURE LOCK TAIL PIECE UNLESS NOTED OTHERWISE.

	LEGEND
	EQUIPMENT ITEM OWNER FURNISHED, CONTRACTOR INSTALLED
	EQUIPMENT ITEM OWNER FURNISHED, OWNER INSTALLED
	UNDER CABINET LIGHT - SEE ELECTRICAL DRAWINGS
XXX# MATERIAL	DENOTES NON-TYPICAL FINISH REFER TO A7 SERIES MILLWORK MATERIAL KEY & A9 SERIES FINISH MATERIAL KEY
× × × *	OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT ITEM OWNER FURNISHED, OWNER INSTALLED UNDER CABINET LIGHT - SEE ELECTRICAL DRAWINGS DENOTES NON-TYPICAL FINISH REFER TO A7 SERIES MILLWORK MATERIAL KEY & A9 SERIES FINISH MATERIAL KEY







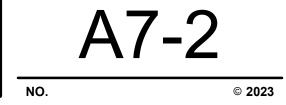


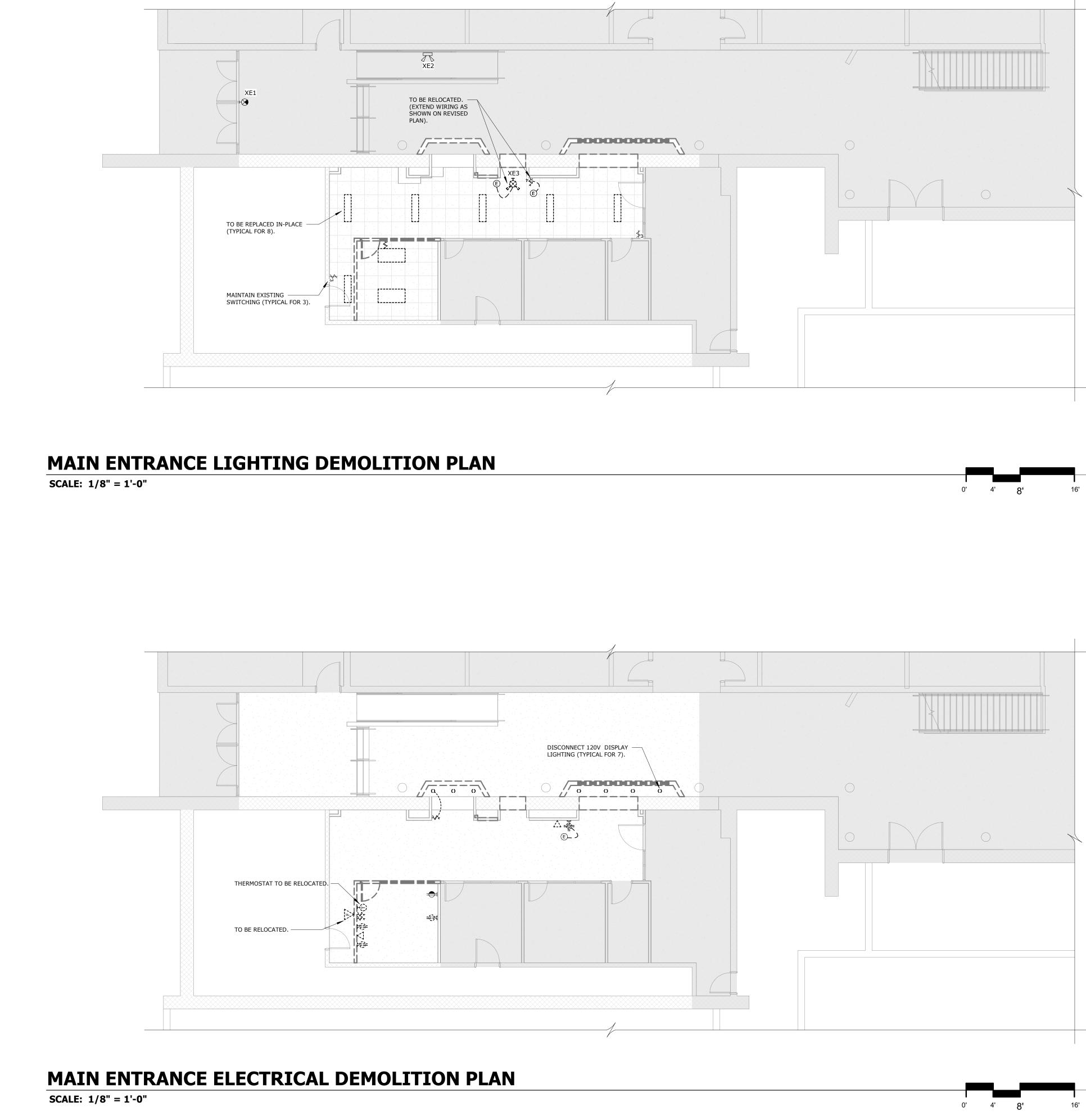


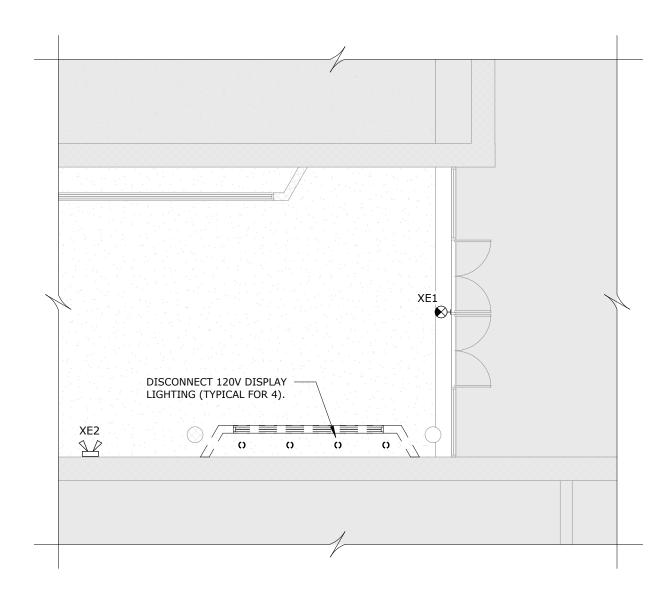
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	ROJECT NO.	23077.000

INTERIOR ELEVATIONS

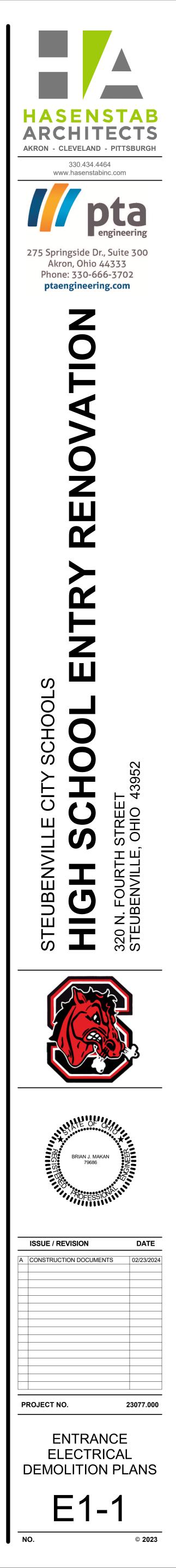






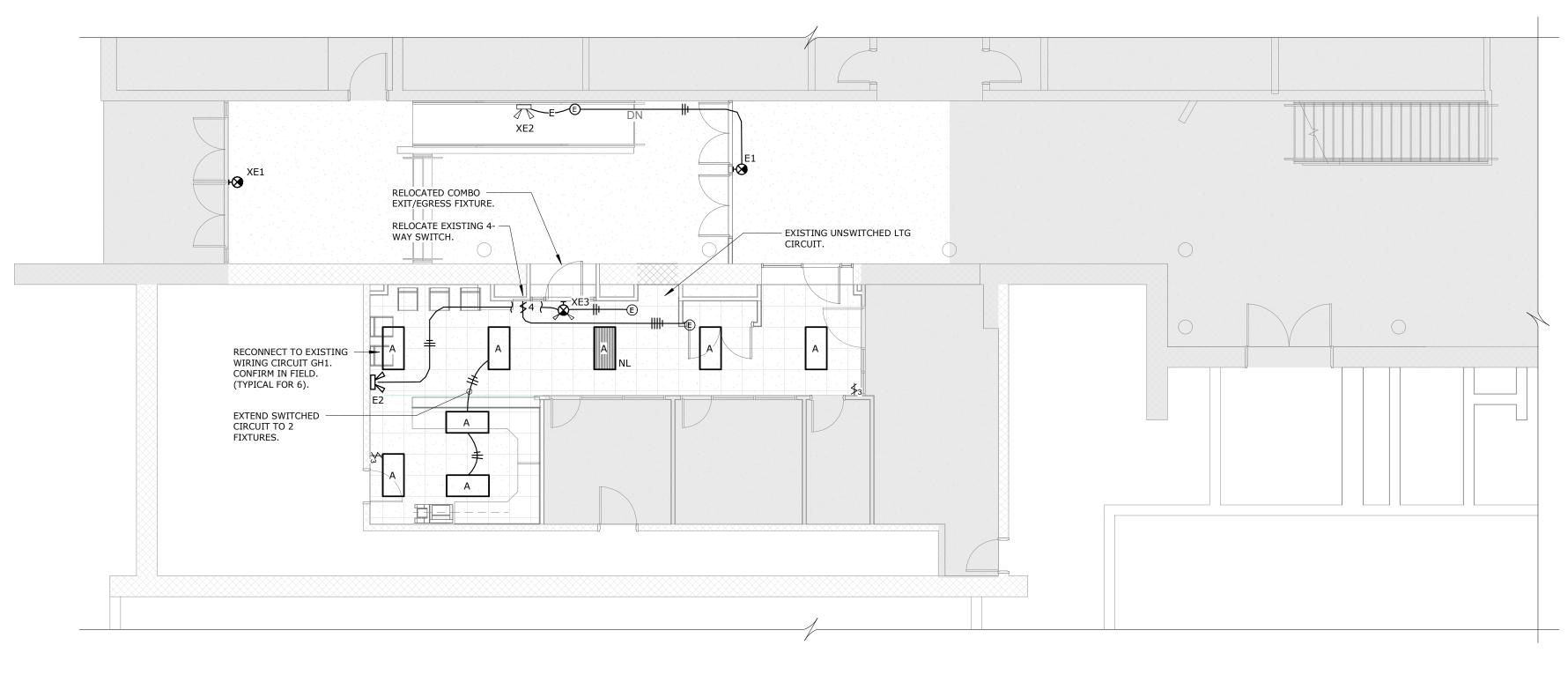


SCALE: 1/8" = 1'-0"



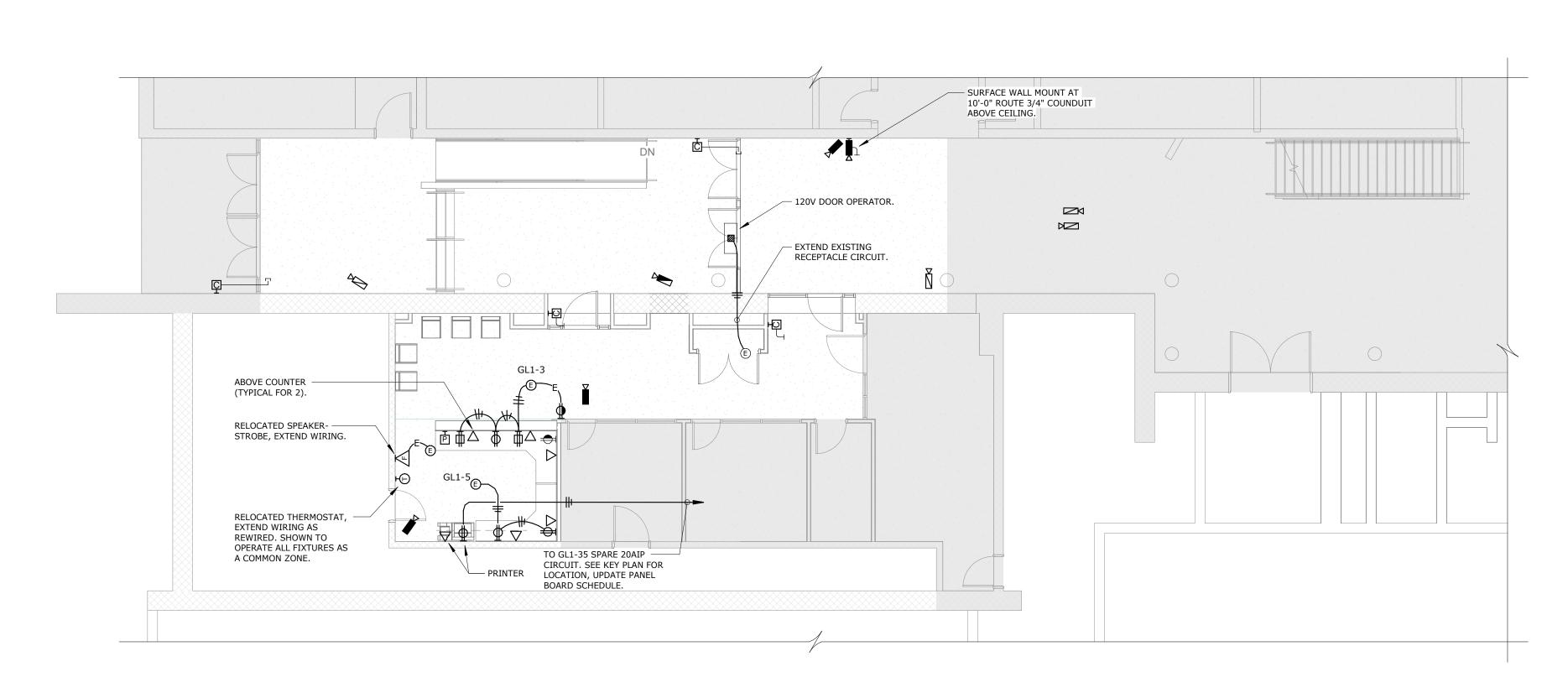
### **LIGHTING FIXTURE SCHEDULE:**

TYPE A: 48" X 24" X 2-1/8" DEEP RECESSED FLAT PANEL LED FIXTURE WITH WHITE FROSTED LENS, 51 WATTS, 5400 LUMENS, 4000K COLOR TEMPERATURE, UNIVERSAL 120-277 VOLT 0-10V DIMMING DRIVER, AND FRAME FOR MOUNTING IN LAY-IN TEE BAR CEILING. LITHONIA #EPANL-2X4 SERIES. METALUX #24FPX SERIES. COLUMBIA #SRP24 SERIES. H.E. WILIAMS #LP SERIES TYPE E1: WALL MOUNTED LED EXIT SIGN WITH SINGLE FACE WHITE THERMOPLASTIC HOUSING AND CANOPY, RED LETTERING, DUAL INPUT (120/277V) POWER SUPPLY, NICKEL CADMIUM BATTERY WITH SELF DIAGNOSTICS, CHARGING CIRCUITRY AND, ARROWS AS INDICATED ON DRAWING. SURE-LITES #LPX SERIES. LITHONIA #LQM SERIES, EMERGI-LITE ELX SERIES, EXITRONIX # VEX-WB SERIES. COMPASS #CE SERIES. WIN HEAD EMERGENCY EGRESS LIGHT UNIT WITH WHITE THERMOPLASTIC HOUSING, SEALED NICKEL TYPE E2: CADMIUM BATTERY, AUTOMATIC CHARGER, AUTOMATIC TRANSFER CIRCUITRY, TWO .78 WATT (MINIMUM) LED HEADS AND DUAL 277/120V INPUT, MOUNT ON WALL AT 8'-0" AFF. CONNECT TO UNSWITCHED LIGHTING CIRCUIT. SURELITES #SEL50 SERIES. EMERGI-LITE #EL-2LED SERIES. LITHONIA #ELM2-LED SERIES. DUALITE #L2 SERIES. COMPASS #CU2 SERIES TYPE XE1: EXISTING EXIT SIGN TO REMAIN UNLESS NOTED OTHERWISE. EXISTING WALL MOUNTED TWIN HEAD EGRESS FIXTURE TO REMAIN UNLESS NOTED OTHERWISE TYPE XE2: TYPE XE3: EXISTING WALL MOUNTED COMBO EXIT / TWIN HEAD EGRESS FIXTURE TO REMAIN UNLESS NOTED OTHERWISE.



### MAIN ENTRANCE LIGHTING PLAN

SCALE: 1/8" = 1'-0"



MAIN ENTRANCE ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

### **SYMBOL SCHEDULE:**

Ō	<b>E</b> XISTING DOWNLIGHT ACCENT LIGHT WITHIN CASEWORK TO BE REMOVED ALONG WITH ASSOCIATED CONDUIT AND WIRING.	Φ	20 AMP, 120V, GRAY COLORED, SPECIFIC GROUNDING RECEPTACLE WITH STAINLES MOUNT FLUSH IN WALL AT 18" AFF, UNLE
[]	EXISTING RECESSED 1x4 FIXTURE TO BE REMOVED.		CIRCUIT INDICATED. INSTALL SELF-LAM COVERPLATE TO IDENTIFY BRANCH PANE
*	EXISTING SWITCH TO BE REMOVED ALONG WITH ASSOCIATED CONDUIT AND WIRING.	th.	SIMILAR TO " $\phi$ " EXCEPT MOUNTED HO
函	EXISTING KEY-SWITCH TO BE REMOVED ALONG WITH ASSOCIATED CONDUIT AND WIRING.	曲	AS DIRECTED BY ARCHITECT.
<b>‡</b>	EXISTING DUPLEX RECEPTACLE TO BE REMOVED ALONG WITH ASSOCIATED CONDUIT AND WIRING.	$\bigtriangledown$	VOICE/DATA JACK ROUGH IN CONSISTING SINGLE GANG PLASTER RING AT 18" AFF,
$\nabla$	EXISTING DATA OUTLET TO BE REMOVED ALONG WITH ASSOCIATED CONDUIT AND WIRING/		CONDUIT (WITH INSULATING BUSHINGS PLENUM FOR CABLE INSTALLATION.
#		<u></u>	CARD ACCESS SYSTEM DOOR PROVISION
<b>•</b>	EXISTING DUPLEX RECEPTACLE TO REMAIN AND BE MAINTAINED.	Ę	SIMILAR TO " 📮 " EXCEPT INSTALLED I
F	EXISTING FIRE ALARM AUDIO/VISUAL DEVICE TO BE RELOCATED AS IDENTIFIED ON PLAN.	」 「	REMOTE-PUSH BUTTON FOR CARD ACCES
	2 x 4 RECESSED FIXTURE. REFER TO FIXTURE SCHEDULE.	딸	GANG, DEEP, BOX WITH SINGLE GANG PL
Ø	EXIT SIGN. REFER TO FIXTURE SCHEDULE.		FINAL LOCATION WITH ARCHITECT. STU EACH END) FROM BOX TO ACCESSIBLE CE
Y	EGRESS FIXTURE. REFER TO FIXTURE SCHEDULE.		
Ŕ	COMBO EXIT/EGRESS FIXTURE. REFER TO FIXTURE SCHEDULE.		
	EXISTING CAMERA TO REMAIN AND BE MAINTAINED.		
	EXISTING CAMERA TO BE REPLACED-IN-PLACE BY OTHERS.		
	NEW CEILING MOUNTED CAMERA LOCATION. CAMERA MOUNTED FLUSH TO CEILING PANEL. CAMERA AND CABLING BY OTHERS. COORDINATE FINAL LOCATIONS WITH OWNER.		

⊦■■	NEW WALL MOUNTED CAMERA LOCATION. TWO GANG BOX AND ¾" CONDUIT TO ACCESSIBLE CEILING SPACE AS REQUIRED BY EC. CAMERA AND CABLING BY OTHERS. COORDINATE FINAL LOCATIONS WITH OWNER.
	COORDINATE FINAL LOCATIONS WITH OWNER.

0' 4' **8'** 16'

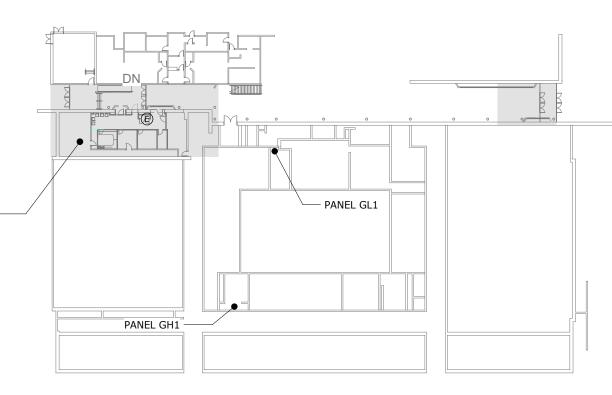
#### FICATION GRADE TAMPER RESISTANT DUPLEX NLESS STEEL COVERPLATE (HUBBELL #HBL5362TR). NLESS NOTED OTHERWISE. WIRE TO BRANCH AMINATING LABEL (CLEAR W/BLACK LETTERS) ON ANEL AND CIRCUIT NUMBER.

## D HORIZONTALLY ABOVE WORK COUNTER AT HEIGHT

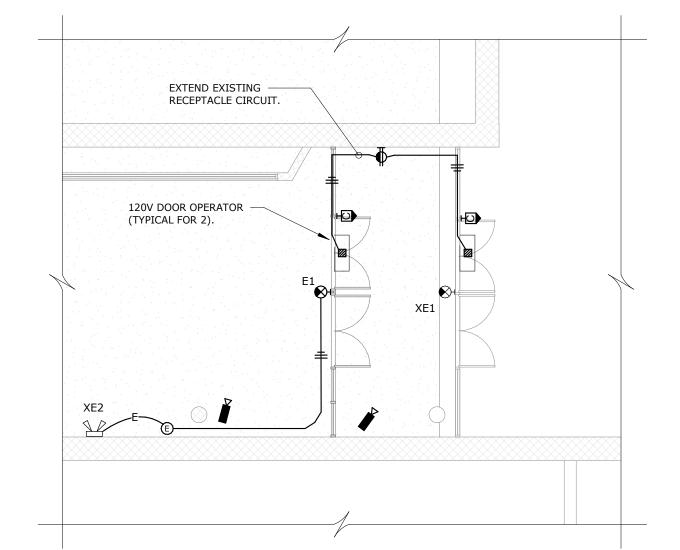
AFF, UNLESS NOTED OTHERWISE. STUB A 1" IGS EACH END) FROM BOX TO ACCESSIBLE CEILING

IONS ROUGH IN BY EC.

CESS DOOR OPEN CONSISTING OF A FLUSH TWO G PLASTER RING ABOVE COUNTER. COORDINATE STUB A 1" CONDUIT (WITH INSULATING BUSHINGS E CEILING PLENUM FOR CABLE INSTALLATION. SHADE IDENTIFIES WORK AREA. —



**KEY PLAN** SCALE: 1" = 60'-0"





### **ELECTRICAL SPECIFICATIONS**

#### 1. GENERAL PROVISIONS

- A. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, SUPPLIES, SERVICES, AND SHALL PERFORM ALL OPERATIONS INCLUDING SETTING OF SLEEVES, CUTTING, CHANNELING, AND CHASING NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK ON THIS PROJECT, COMPLETE IN STRICT ACCORDANCE WITH THIS SPECIFICATION AND APPLICABLE DRAWINGS, AND READY FOR USE. THIS WORK INCLUDES ALL ELECTRICAL WORK FROM THE POINT OF SERVICE CONNECTION OR CONNECTIONS TO AND INCLUDING OUTLETS, WIRING DEVICES, LIGHTING FIXTURES, MOTOR TERMINALS, ETC. (1) THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL, AND REMOVE TEMPORARY
- LIGHTING AND POWER SERVICES AS REQUIRED FOR THE COMPLETION OF THE PROJECT. B. THIS CONTRACTOR IS INSTRUCTED TO READ CAREFULLY THE SPECIFICATIONS FOR ALL PARTS OF THE WORK, ESPECIALLY THE MECHANICAL TRADES OF THIS CONTRACT AND INCLUDE COSTS FOR WIRING ALL THEIR EQUIPMENT UNLESS SPECIFICALLY EXCEPTED HEREIN.
- C. ALL ITEMS OF LABOR, MATERIAL AND EQUIPMENT NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON PLANS, BUT INCIDENTAL TO, OR REQUIRED FOR THE COMPLETE INSTALLATION AND PROPER OPERATION OF THE WORK, SHALL BE FURNISHED AS IF CALLED FOR IN DETAIL BY THE SPECIFICATIONS OR DRAWINGS.
- 2. PERMITS, CODES, INSPECTIONS, AND TESTS
- A. THE ELECTRICAL CONTRACTOR (EC) SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF ELECTRICAL WORK. ALL PERMITS AND CERTIFICATES OF INSPECTION AND APPROVAL SIGNED BY THE CONTROLLING BUILDING DEPARTMENT SHALL BECOME PROPERTY OF THE OWNER.
- B. ALL WIRING SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE, APPLICABLE STATE AND CITY REGULATIONS, AND OSHA. IN CASES OF CONFLICT BETWEEN CODE AND SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- C. FOLLOWING COMPLETION OF THE ELECTRICAL WORK, FURNISH TO THE OWNER, IN DUPLICATE, CERTIFICATES OF INSPECTION AND APPROVAL BY REGULATORY AGENCIES HAVING JURISDICTION.
- (1) ARRANGE FOR INSPECTION CERTIFICATION PRIOR TO SUBMITTING FINAL REQUEST FOR PAYMENT. PAY ALL FEES IN CONNECTION WITH SUCH INSPECTIONS. (2) IMMEDIATELY CORRECT ANY WORK FOUND AT VARIANCE WITH THESE SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, OR REQUIREMENTS OF GOVERNING REGULATORY
- AGENCIES. (3) DEMONSTRATE, BY TEST, THAT ALL WORK COMPLIES WITH THE STATED STANDARDS. TESTS WILL INCLUDE: OPERATION OF LIGHTS AND EQUIPMENT, CONTINUITY OF CONDUIT SYSTEM, GROUNDING RESISTANCES AND INSULATION RESISTANCES ON NOT MORE THAN 10 REPRESENTATIVE CIRCUITS AND ANY OTHER CIRCUITS JUSTIFYING SUCH TESTING. AND ANY OTHER TESTING IDENTIFIED IN THIS SPECIFICATION. LABOR AND EQUIPMENT FOR PERFORMING TESTS SHALL BE SUPPLIED AS PART OF THE WORK UNDER THIS DIVISION.
- 3. VISIT TO THE SITE
- A. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK. THE SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF ALL SUCH CONDITIONS.
- 4. PROTECTION A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FROM DIRT AND WATER DURING CONSTRUCTION NECESSITATED BY ELECTRICAL WORK. PROTECTION METHODS ARE SUBJECT TO APPROVAL BY THE CONSTRUCTION MANAGER AND/OR THE ARCHITECT.
- 5. EQUIPMENT AND EQUIPMENT IDENTIFICATION
- A. ALL EQUIPMENT AND DEVICES SHALL BE NEW AND SHALL CONFORM TO NEMA AND UNDERWRITERS' LABORATORIES STANDARDS. WHERE SPECIFICATIONS DESCRIBE, OR PLANS SHOW, MATERIALS OR EQUIPMENT OF HIGHER QUALITY THAN REQUIRED BY CODE AND LOCAL RULING, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN THE QUALITY OF THE MATERIAL OR EQUIPMENT.
- B. THE CONTRACTOR SHALL SUBMIT PROOF, IF REQUESTED BY THE OWNER, THAT THE MATERIALS, APPLIANCES, EQUIPMENT OR DEVICES THAT ARE FURNISHED AND INSTALLED UNDER THIS CONTRACT MEET THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES, INC., AS REGARDING FIRE AND CASUALTY HAZARDS. THE LABEL OF OR LISTING BY THE UNDERWRITERS' LABORATORIES, INC. WILL BE ACCEPTED AS CONFORMING WITH THIS REQUIREMENT. IN LIEU OF THE LABEL OR LISTING, THE CONTRACTOR MAY SUBMIT INDEPENDENT PROOF SATISFACTORY TO THE ENGINEER THAT THE MATERIALS, APPLIANCES OR DEVICES CONFORM TO THE UNDERWRITERS' LABORATORIES, INC. PUBLISHED STANDARDS AND TESTING METHODS. UNDERWRITERS' LABORATORIES, INC. AND ITS PUBLICATIONS WILL BE REFERRED TO HEREINAFTER BY THE ABBREVIATION UL, WITH OR WITHOUT ADDITIONAL IDENTIFYING SYMBOLS.
- C. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL IDENTIFYING LABELS, WHERE NECESSARY OR AS DIRECTED BY THE OWNER, FOR ALL PUSHBUTTONS, SELECTOR SWITCHES, KEY SWITCHES, TOGGLE SWITCHES, MANUAL MOTOR STARTERS, RECEPTACLES, SPECIAL OUTLETS, ETC.
- (1) LABELS SHALL BE SELF LAMINATING WHITE WITH BLACK LETTERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS, AND SHALL BE ADHERED TO A CLEAN FLAT SURFACE. 6. GUARANTEE
- A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR (FROM THE DATE OF OWNER ACCEPTANCE) THAT ALL WORK AND EQUIPMENT WILL REMAIN FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS, AND THAT IT WILL COMPLY WITH ALL THE SPECIFIC REQUIREMENTS OF THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS GOVERNING THE WORK.
- B. ALL WORK FOUND BY THE ENGINEER TO BE DEFECTIVE WILL BE REPLACED WITH NEW WORK MEETING ALL THE REQUIREMENTS OF THE CONTRACT. THE ELECTRICAL CONTRACTOR WILL BEAR ALL COSTS OF SUPPLYING SUCH NEW WORK, AND INSTALLING AND FINISHING SAME, AND WILL ASSUME ALL COSTS FOR REPLACING OTHER WORK DAMAGED BY THE REMOVAL AND REPLACEMENT OF ANY OF THE WORK. THE ELECTRICAL CONTRACTOR WILL BEAR ALL COSTS FOR FREIGHT, DRAYAGE AND DEMURRAGE, AND ALL LABOR IN CONNECTION THEREWITH.
- 7. CUTTING, PATCHING, FIRESTOPPING, CLEANING, AND PAINTING A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING ALL HOLES REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. HOLES SHALL BE CUT IN A NEAT MANNER SATISFACTORY TO THE ENGINEER.
- B. THE LOCATION OF ALL CONDUIT AND BOXES SHALL BE PREDETERMINED BY THIS CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SAME IN WALLS AND CEILINGS.
- C. ALL HOLES OR DAMAGE CAUSED BY THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE PROPERLY PATCHED BY THIS CONTRACTOR. HOLES SHALL BE NEATLY PATCHED WITH SUITABLE MATERIAL TO MATCH EXISTING SURFACES. HOLES THROUGH FLOORS OR FIRE WALLS SHALL BE SEALED WITH THE APPROPRIATE INTUMESCENT CAULK, PUTTY, STRIP, BLOCK, SPONGE, OR SHEET TYPE FIRE BARRIER PRODUCT; HILTI "FS-ONE", NELSON "FLAMESEAL", SPECIFIED TECHNOLOGIES INC. "SPEC SEAL", INTERNATIONAL PROTECTIVE COATINGS "FLAMESAFE", CSD SEALING SYSTEMS, OR APPROVED EQUAL AS MANUFACTURED BY 3M.
- D. FIRESTOPPING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL U.L. SYSTEM REOUIREMENTS FOR THE TYPE OF PENETRATION AND FIRESTOPPING SYSTEM USED. FIRESTOPPING MATERIALS SHALL BE HILTI INC. OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LISTING FOR THE FURNISHED MANUFACTURER AND PENETRATING COMPONENT.
- (1) "F" RATING 1 OR 2 HOURS
- (A) METAL PIPE THROUGH GYPSUM BOARD HILTI #W-L-1054 (B) METAL PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY - HILTI #F-C-1059 (2) "F" RATING - 3 HOURS
- (A) METAL PIPE THROUGH MASONRY/CONCRETE FLOOR OR WALL HILTI #C-AJ-1155, #C-AJ-1226 (B) METAL PIPE THROUGH POURED CONCRETE FLOOR SLABS - HILTI #F-A-1017
- E. SWAB INTERIORS OF CONDUITS CLEAN AND DRY BEFORE PULLING WIRE. CLEAN INTERIORS OF BOXES AND CABINETS BEFORE INSTALLING TRIMS AND COVERS.
- F. ALL PAINTING REQUIRED BY ELECTRICAL DEMOLITION OR BY THE INSTALLATION OF NEW ELECTRICAL CONDUIT AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- G. ALL RACEWAYS, JUNCTION BOXES, OUTLET BOXES, RACEWAY SUPPORTS, ETC. INSTALLED EXPOSED ON THE SURFACE OF EXISTING PAINTED SURFACES SHALL BE PAINTED (2 COATS MINIMUM) BY THE ELECTRICAL CONTRACTOR TO MATCH EXISTING SURFACES. (1) RACEWAYS INSTALLED ON UNPAINTED MASONRY SHALL NOT BE PAINTED.
- (2) IVORY COLORED WIREMOLD RACEWAYS AND WIREMOLD OUTLET BOXES SURFACE MOUNTED ON IVORY OR WHITE PAINTED SURFACES SHALL NOT BE PAINTED.
- (3) SUBMIT PAINT CHIPS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE PURCHASE OF ANY
- H. ELECTRICAL CONTRACTOR SHALL PATCH AND FINISH SAND ALL EXISTING SURFACES MARRED BY THE REMOVAL OF EXISTING CONDUITS, CABLE, AND EQUIPMENT. WHERE PATCHES ARE EXPOSED ON EXISTING PAINTED SURFACES, THEY SHALL BE PAINTED (2 COATS MINIMUM) BY THE ELECTRICAL CONTRACTOR TO MATCH EXISTING SURFACES.
- I. TOUCH UP AND REPAIR ANY DAMAGED FACTORY FINISHES ON EQUIPMENT AND MATERIALS FURNISHED REMOVE ANY RUST SPOTS PRIME WITH RUST INHIBITIVE PAINT ANY METAL SURFACES OF ELECTRICAL DEVICES NOT PROVIDED WITH RUST INHIBITIVE COATINGS, THEN APPLY PAINT (2 COATS MINIMUM) TO MATCH FACTORY FINISH.

- 8. COORDINATION AND CONDUCT OF WORK A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT,
- DRAWINGS.
- ANY INTERFERENCES BEFORE STARTING INSTALLATION. C. COORDINATE THIS WORK WITH ALL TRADES. ARRANGE OPERATIONS SO AS NOT TO DELAY INSTALLATION OR COMPLETION OF ANY PARTS OF INTERRELATED WORK SO THAT CONSTRUCTION MAY PROCEED ON SCHEDULE. ARRANGE WORK AND SCHEDULE CONTINUOUS WORK SHIFTS TO PROVIDE MINIMUM POSSIBLE OUTAGE OF ELECTRIC SERVICE.
- D. DRAWINGS OTHER THAN ELECTRICAL DRAWINGS AND OTHER SECTIONS OF THIS SPECIFICATION MAY SHOW OR SPECIFY ELECTRICALLY OPERATED EQUIPMENT, WIRING DIAGRAMS, ETC. THE CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATION SECTIONS TO BECOME FAMILIAR WITH THE CHARACTERISTICS OF AND REQUIRED CONNECTIONS FOR ALL EQUIPMENT FOR WHICH WIRING IS TO BE PROVIDED. E. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY FIRST-CLASS MECHANICS. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND COMPETENT SUPERVISION
- THROUGHOUT CONSTRUCTION.
- ANY CHANGE RESULTING IN A SAVINGS IN LABOR OR MATERIAL SHALL BE MADE ONLY IN ACCORDANCE WITH A CONTRACT CHANGE ORDER. DEVIATIONS SHALL BE MADE ONLY WHERE NECESSARY TO AVOID INTERFERENCES AND ONLY AFTER DRAWINGS SHOWING THE PROPOSED DEVIATIONS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ARCHITECT. CHANGES IN INDICATED LOCATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- F. CONDUITS, WIRING, AND EQUIPMENT SHALL BE ARRANGED SUBSTANTIALLY AS INDICATED. G. CONSTRUCTION MANAGER AND ARCHITECT RESERVE THE RIGHT TO MAKE REASONABLE 9. REMOVAL AND REARRANGEMENT OF EXISTING WIRING AND ELECTRICAL EQUIPMENT
- A. REMOVE ALL EXISTING WIRING AND ELECTRICAL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION AND ARE NOT NECESSARY TO MAINTAIN SERVICE TO LOADS THAT ARE TO B. RELOCATE, AND/OR EXTEND AS REQUIRED, WIRING THAT INTERFERES WITH NEW
- CONSTRUCTION AND IS ESSENTIAL TO MAINTAIN SERVICE TO LOADS THAT ARE TO REMAIN. C. REMOVE AND/OR RELOCATE THOSE DEVICES SPECIFICALLY INDICATED ON THE DRAWINGS. D. IN THOSE CASES WHERE DEVICES ARE REMOVED, THE ASSOCIATED WIRING THAT WILL NO LONGER BE ACTIVE SHALL BE REMOVED FULL LENGTH BACK TO THE SOURCE OR FIRST ACTIVE JUNCTION POINT.
- DEMOLITION WORK.
- E. PROVIDE NEW UPDATED TYPED CIRCUIT DIRECTORIES FOR ALL PANELS EFFECTED BY F. CONDUITS TO BE ABANDONED THAT PENETRATE ON GRADE FLOOR SLABS SHALL BE CUT FLUSH WITH SLAB, FILED TO REMOVE ALL BURRS, AND GROUTED TO MATCH SLAB.
- G. ALL ELECTRICAL MATERIAL AND DEVICES THAT ARE REMOVED SHALL BE STORED ON THE SITE FOR SALVAGE BY THE OWNER. ALL ITEMS NOT SELECTED FOR SALVAGE SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE SITE.
- 10. SUBMITTALS
- A. THIS CONTRACTOR SHALL PREPARE OR OBTAIN FROM THE MANUFACTURERS SHOP DRAWINGS THE ITEMS LISTED BELOW AND AFTER REVIEW AND STAMPING SHALL SUBMIT ELECTRONICALLY FOR REVIEW.
- B. ELECTRONIC SUBMITTALS SHALL BE IN PDF FORMAT. SUBMITTALS SHALL INCLUDE A TRANSMITTAL, INCLUDE A CONTRACTOR REVIEW STAMP THAT INDICATES APPROVAL BY THE CONTRACTOR, SHALL CLEARLY INDICATE EACH ITEM TO BE REVIEWED WITH SPECIFIC NOTES IDENTIFYING ANY DEVIATION FROM THE CONTRACT DOCUMENTS, AND BE BOUND INTO A SINGLE DOCUMENT NAMED TO MATCH CONTENTS.
- C. THESE DRAWINGS SHALL BE COMPLETE IN EVERY RESPECT, SHOWING PERTINENT DETAILS OF SIZE, CAPACITIES, ACCESSORIES, TYPE AND THICKNESS OF MATERIALS, WEIGHT, MAINTENANCE, FEATURES, ETC. ALL LIGHTING FIXTURES SHALL BE SUBMITTED AT ONE TIME. (1) LIGHTING FIXTURES (2) WIRING DEVICES
- 11. AS-BUILT DRAWINGS
- A. AS WORK PROGRESSES, RECORD ON A SET OF RED-LINED "AS-BUILT" PRINTS ANY DEVIATIONS FROM DESIGN DRAWINGS. DELIVER TO THE OWNER AND ENGINEER IN ELECTRONIC FORMAT AUTOCAD (DWG) OR ADOBE ACROBAT (PDF) BEFORE SUBMITTING THE REQUEST FOR FINAL PAYMENT.
- 12. RACEWAYS A. FURNISH AND INSTALL CONDUIT, SUPPORTS, BOXES, WIRE, AND NECESSARY FITTINGS AND ACCESSORIES AS REQUIRED TO MAKE A COMPLETE INSTALLATION OF THE WIRING SYSTEM INDICATED ON THE DRAWINGS.
- B. ALL WIRING SHALL BE INSTALLED IN CONDUIT, FLEXIBLE METALLIC CONDUIT, OR LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT AS INDICATED ON PLANS. (1) CONDUITS INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING GALVANIZED INSIDE AND OUT WITH A CLEAR TOP COAT TO RESIST ABRASION AND AN INTERIOR ORGANIC COATING TO PROVIDE LUBRICATION.
- CODE FOR THE NUMBER AND SIZE CONDUCTORS INVOLVED. JOINTS SHALL BE CUT THAN 3/4", UNLESS NOTED OTHERWISE.
- TIGHT. DIE CAST TYPE INDENTOR FITTINGS ARE NOT ACCEPTABLE. C. REFER TO THE CONDUCTORS SECTION OF THIS SPECIFICATION FOR LIMITED USE OF MC
- D. RACEWAYS IN GENERAL SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS, IN WALLS, IN ACCESSIBLE FLOOR PLENUMS, AND EXPOSED ELSEWHERE AS SHOWN ON PLANS. (1) PVC CONDUIT AND LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL NOT BE USED IN ENVIRONMENTAL AIR PLENUMS.
- E. ALL EXPOSED CONDUITS SHALL BE RUN IN A NEAT MANNER, PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES. EXPOSED CONDUITS SHALL BE ADEQUATELY SUPPORTED WITH BEAM CLAMPS, ONE HOLE STRAPS, ETC. (1) WHERE ENCOUNTERED, STEEL FIREPROOFING SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR WHERE SUPPORTS ARE INSTALLED ON EXISTING STEEL STRUCTURES. REMOVED AND THE CONDUITS CLEANED OF ALL OBSTRUCTIONS PRIOR TO PULLING IN THE NEW WIRE. LOCATIONS OF EXISTING CONDUIT RUNS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATION SHALL BE ASCERTAINED BY THE ELECTRICAL
- F. WHERE NEW WIRE IS TO BE PULLED INTO EXISTING RACEWAYS, THE OLD WIRE SHALL BE CONTRACTOR
- G. ALL ELECTRICAL SYSTEMS, RACEWAYS, JUNCTION BOXES, CABLES, AND ALL FLEXIBLE WIRING SYSTEMS SHALL BE SUPPORTED INDEPENDENT OF THE SUSPENDED TEE-BAR CEILING SYSTEM AND INDEPENDENT OF HANGER WIRES ASSOCIATED WITH THE CEILING SYSTEM, IN FULL COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

#### APPROXIMATE SIZES, GENERAL LOCATIONS OF EQUIPMENT AND OUTLETS. VERIFY DIMENSIONS IN FIELD; ADJUST TO MANUFACTURER'S SHOP DRAWINGS. DO NOT SCALE

B. ARCHITECTURAL DRAWINGS SUPERSEDE ELECTRICAL DRAWINGS. DETERMINE THAT WORK OF THIS DIVISION CAN BE ACCOMMODATED WITHIN SPACES PROVIDED. NOTIFY ARCHITECT OF

- (2) CONDUITS SHALL BE OF THE SIZE INDICATED OR REQUIRED BY THE NATIONAL ELECTRIC
- SQUARE, REAMED SMOOTH AND PULLED UP TIGHT. CONDUITS SHALL NOT BE SMALLER (3) EMT CONDUIT FITTINGS SHALL BE SET SCREW TYPE GALVANIZED STEEL, CONCRETE

- 13. CONDUCTORS
- A. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE STRANDED COPPER WITH NOT LESS THAN 98% CONDUCTIVITY AND 600 VOLT TYPE THWN OR XHHW INSULATION. CONDUCTORS SHALL BE #12 AWG UNLESS INDICATED OTHERWISE ON PLANS.
- B. TYPE THHN OR XHHW (90°C) INSULATED STRANDED COPPER CONDUCTORS SHALL BE USED WHERE BRANCH CIRCUIT CONDUCTORS ARE ROUTED THRU FLUORESCENT FIXTURE CHANNELS.
- C. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL BID DOCUMENTS, THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL TYPE AC ARMORED CABLE, TYPE FC FLAT CABLE, TYPE FCC FLAT CONDUCTOR CABLE, TYPES NM / NMC / NMS NONMETALLIC SHEATHED CABLE, TYPES SE / USE SERVICE CABLE OR TYPE UF UNDERGROUND FEED CABLE. REFER BELOW FOR LIMITED USE OF MC CABLE.
- D. METAL CLAD CABLE (NEC TYPE MC):
- (1) METAL CLAD CABLE (MC CABLE) MAY ONLY BE USED WHERE PERMITTED BY THE NEC, LOCAL CODES AND THE FOLLOWING LIMITATIONS. (A) FOR BRANCH CIRCUIT WIRING FISHED INTO EXISTING WALLS OR INACCESSIBLE CEILINGS AND IN CASEWORK. (MC CABLE SHALL NOT BE INSTALLED ABOVE CEILINGS
- IN LENGTHS GREATER THAN 8 FEET.) (B) MC CABLE SHALL NOT BE INSTALLED EXPOSED ON WALLS.
- (C) MC CABLE IS NOT PERMITTED FOR FEEDER CIRCUITS. (D) MC CABLE IS NOT PERMITTED FOR EMERGENCY POWER CIRCUITS, EXCEPT WHERE FISHED INTO EXISTING WALLS OR INACCESSIBLE CEILINGS.
- (E) UNGROUNDED CONDUCTORS SHALL BE IDENTIFIED PER NEC 210.5.C. E. SPLICES IN BRANCH CIRCUIT WIRES SHALL BE MADE ONLY IN READILY ACCESSIBLE JUNCTION BOXES
- (1) IN-LINE SPLICES AND TAPS FOR CONDUCTORS #8 AWG OR SMALLER SHALL BE 600V RATED WITH "LIVE SPRING" AND INSULATED RIGID NYLON WING TYPE BODY, 3M "RANGER", BUCHANAN "B-CAP", OR EQUAL.
- F. CIRCUIT CONDUCTORS SHALL BE CONNECTED AT PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARD LOADS SHALL BE CHECKED AT COMPLETION OF THE JOB AND WHERE UNBALANCE EXCEEDS 5% (PLUS OR MINUS) ADJUSTMENTS SHALL BE MADE.
- G. ALL MULTI-WIRE BRANCH CIRCUITS THAT FEED MORE THAN ONE DEVICE OR EQUIPMENT MOUNTED ON, OR WIRED FROM, A COMMON YOKE, SHALL BE POWERED FROM A BRANCH CIRCUIT OVERCURRENT DEVICE THAT SIMULTANEOUSLY DISCONNECTS ALL UNGROUNDED
- SUPPLY CONDUCTORS IN FULL COMPLIANCE WITH NEC ARTICLE 210.4. H. BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED. CONDUCTOR INSULATION SHALL BE FACTORY COLORED IN SIZES UP THROUGH #8 AWG. COLORS SHALL BE ASSIGNED TO EACH CONDUCTOR AS DESCRIBED BELOW AND CARRIED THROUGHOUT ALL MAIN AND BRANCH CIRCUIT DISTRIBUTION.
- 208/120 VOLT 480/277 VOLT (1) PHASE "A" CONDUCTOR BLACK BROWN (2) PHASE "B" CONDUCTOR RED ORANGE (3) PHASE "C" CONDUCTOR BLUE YELLOW (4) NEUTRAL CONDUCTOR WHITE GRAY (5) GROUNDING CONDUCTOR GREEN GREEN
- I. IN GENERAL, 120V AND 277V SINGLE PHASE CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS AND CONNECTED TO SINGLE POLE BREAKERS
- J. CIRCUITS INSTALLED FOR MODULAR TYPE FURNITURE SHALL BE CONNECTED TO A SINGLE-POLE BREAKER WITH A DEDICATED NEUTRAL, WITHOUT EXCEPTION.
- K. WHERE MORE THAN ONE NOMINAL VOLTAGE SYSTEM IS PRESENT WITHIN A PREMISES, THE IDENTIFICATION USED FOR EACH PHASE, NEUTRAL, AND GROUND CONDUCTORS SHALL BE
- PERMANENTLY POSTED AT EACH DISTRIBUTION PANEL AND AT EACH BRANCH PANEL. L. CONTROL WIRING SHALL BE COLOR CODED SUCH THAT RED IS USED EXCLUSIVELY FOR ALL 120 VOLT CONDUCTORS AND WHITE FOR ALL NEUTRAL CONDUCTORS. ALL CONTROL WIRING TO BE IDENTIFIED AT BOTH ENDS WITH PERMANENT WIRE MARKERS.
- 14. OUTLET BOXES
- A. CONCEALED OUTLET BOXES FOR LIGHTING FIXTURES IN SUSPENDED CEILING AREAS SHALL BE 4" OCTAGON BY 1-1/2" DEEP. WHERE NUMBER OF WIRES REQUIRES A LARGER BOX, USE 4-11/16" OR 4" SOUARE BY 2-1/8" DEEP. BOXES SHALL BE PROVIDED WITH ROUND OPENING PLASTER COVERS TO FINISH FLUSH WITH CEILING. PROVIDE 3/8" FIXTURE STUDS.
- B. OUTLET BOXES LOCATED ABOVE ACCESSIBLE CEILINGS FOR LIGHTING FIXTURES SHALL BE PROVIDED WITH BLANK COVERS. WIRING SHALL BE EXTENDED TO FIXTURES IN FLEXIBLE METAL CONDUIT WITH GROUND WIRE.
- C. OUTLET BOXES FOR WIRING DEVICES SHALL BE 4" SQUARE BY 1-1/2" DEEP. WHERE NUMBER OF WIRES REQUIRES A LARGER BOX, USE 4" SQUARE BY 2-1/8" DEEP. PROVIDE ONE OR TWO GANG ADAPTERS AS REQUIRED, TO FINISH FLUSH WITH WALL. WHERE THREE OR MORE DEVICES ARE SET AT ONE POINT, USE GANG TYPE BOXES.
- D. JUNCTION BOXES SHALL BE BONDED TO THE EQUIPMENT GROUND CONDUCTORS CONTAINED WITHIN, WHENEVER SAID CONDUCTORS ARE "SPLICED" OR "TERMINATED" WITHIN THE BOX, IN FULL COMPLIANCE WITH NEC ARTICLE 250.148. E. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF
- THE CONDUIT SYSTEM.
- 15. WIRING DEVICES AND COVERPLATES A. WIRING DEVICES SHALL BE FURNISHED AS DESCRIBED IN THE SYMBOL SCHEDULE AND INSTALLED AT LOCATIONS SHOWN ON THE DRAWINGS. WIRING DEVICES TO BE COOPER "INDUSTRIAL SPEC GRADE", HUBBELL "HBL" SERIES, LEVITON "LEV-SPEC", OR PASS & SEYMOUR "INDUSTRIAL SPEC GRADE". (1) DEVICES SHALL HAVE ONE-PIECE BRASS MOUNTING STRAP.
- (2) DEVICES SHALL BE "IVORY" IN COLOR UNLESS INDICATED OTHERWISE ON PLANS.
- B. COVERPLATES FOR FLUSH MOUNTED AND SURFACE MOUNTED DEVICES IN WIREMOLD BOXES SHALL BE 0.04" THICK BRUSHED FINISH, STAINLESS STEEL. WHERE TWO OR MORE DEVICES ARE SET AT ONE POINT, THEY SHALL BE COVERED WITH A COMMON PLATE. 16. GROUNDING
- A. FURNISH AND INSTALL GROUND CONDUCTORS AS INDICATED ON THE DRAWINGS. CONDUCTORS SHALL BE INSULATED COPPER, TYPE THWN, IDENTIFIED GREEN, AND SIZED AS SHOWN ON THE DRAWINGS.
- B. METALLIC CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT. 17. LOW VOLTAGE AND COMMUNICATIONS RACEWAY PROVISIONS
- A. FURNISH AND INSTALL A SYSTEM OF RACEWAYS AND OUTLETS FOR THE INSTALLATION OF VOICE/DATA CABLING AND SIMILAR LOW VOLTAGE SYSTEMS.
- B. CONDUITS SHALL BE SIZED AS SHOWN ON THE DRAWINGS AND SHALL CONFORM TO "RACEWAYS" SPECIFICATION. C. OUTLETS SHALL BE AS DESCRIBED IN THE SYMBOL SCHEDULE ON THE DRAWINGS.
- D. RACEWAYS SHALL UTILIZE LONG SWEEP 90° BENDS AT ALL LOCATIONS WHERE ELBOWS ARE
- REQUIRED (2 FOOT MINIMUM RADIUS ON ALL BENDS). E. ALL RACEWAYS SHALL BE TERMINATED WITH INSULATING BUSHINGS. ALL RACEWAYS LEFT WITHOUT CABLING SHALL CONTAIN NYLON PULL WIRE.
- F. WIRING SHALL BE INSTALLED BY OTHERS.

