



Salt Lake City
Department of Airports

**SALT LAKE CITY
INTERNATIONAL AIRPORT**

CONSTRUCTION DRAWINGS FOR:
BUILDING GA-50 BREAKROOM REMODEL

1911 2200 WEST
SALT LAKE CITY, UTAH 84116

MAYOR OF SALT LAKE CITY
ERIN MENDENHALL
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BILL WYATT

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SCOTT MARTIN, AIA
AIRPORT ARCHITECT

DATE

PROJECT NO.

SHEET NO. 1
OF 10 SHEETS

SALT LAKE CITY INTERNATIONAL AIRPORT BUILDING GA-50 BREAKROOM REMODEL

1911 2200 WEST
SALT LAKE CITY, UTAH 84116

Project Narrative

THE PROPOSED PROJECT IS FOR THE INSTALLATION OF A NEW SECTION OF BREAKROOM CABINETRY WITH SINK, AND NEW FLOORING.

Location



SITE

Sheet Index

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E101	ELECTRICAL PLANS	-	-
E201	ELECTRICAL DIAGRAMS	-	-

Project Team

CLIENT

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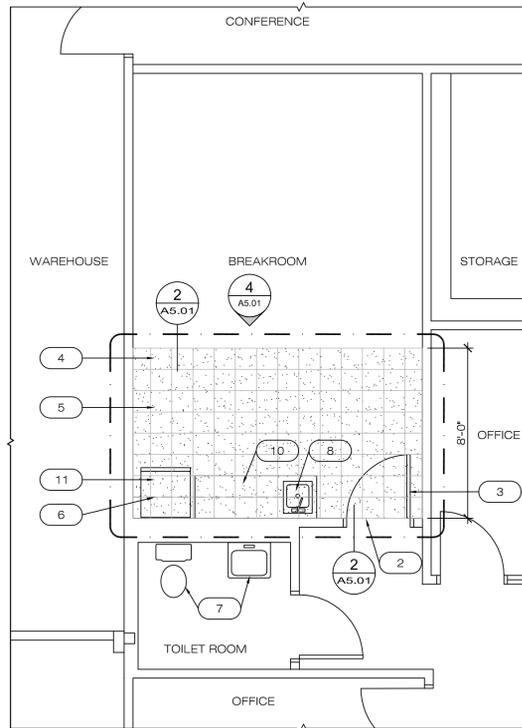
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SALT LAKE CITY INTERNATIONAL AIRPORT

BUILDING GA-50
BREAKROOM REMODEL
VICINITY MAP AND
SCHEDULE OF DRAWINGS

SCALE: AS INDICATED

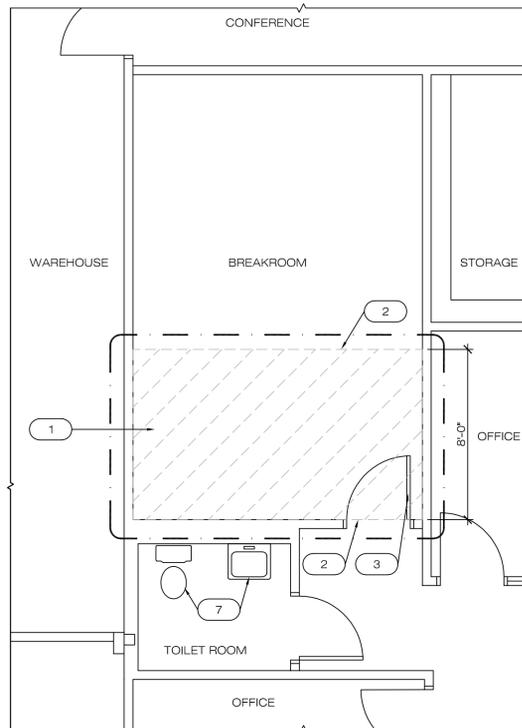
DRAWING GI.01
PROJECT _____
SHEET 2 OF 10



REMODEL PLAN

1/4" = 1'-0"

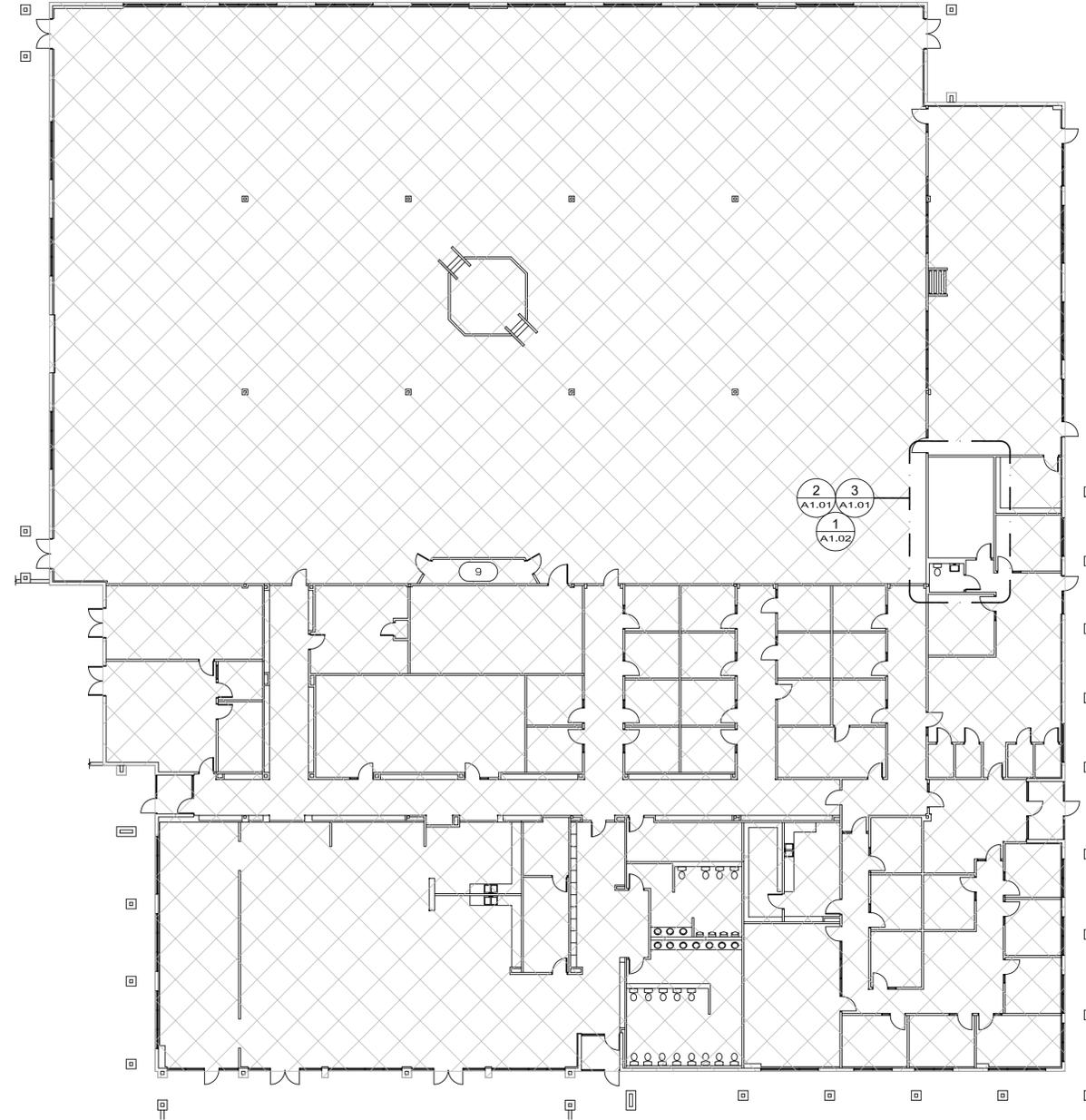
3



EXISTING/DEMO PLAN

1/4" = 1'-0"

2



OVERALL BUILDING PLAN

1/16" = 1'-0"

1

GENERAL NOTES

- A. SLCD A BADGING REQUIREMENTS APPLY FOR ACCESS TO BUILDING SITE AND BUILDING INTERIOR.
- B. VERIFY EXISTING FIELD CONDITIONS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, EQUIPMENT SIZE AND QUANTITY PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT IF CONDITIONS ARE DIFFERENT THAN INDICATED ON PLANS.
- C. CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT IN WRITING OF ANY UNFORESEEN EXISTING CONDITIONS THAT MAY PREVENT OR DISALLOW DEMOLITION WORK. CONTRACTOR SHALL RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT & TRANSMIT FOR PROJECT RECORD FOR COORDINATION & NECESSARY RESOLUTION PRIOR OR CONTINUING DEMOLITION WORK.
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- E. PROTECT EXISTING MECHANICAL/LIFE SAFETY SYSTEMS NOT SCHEDULED FOR DEMOLITION.
- F. PROTECT ALL BUILDING ELEMENTS & ASSEMBLIES INCLUDING WALL STRUCTURES, CEILING ASSEMBLIES, FLOOR COVERINGS, ELECTRICAL, MECHANICAL & PLUMBING FIXTURES, NOT SCHEDULED FOR DEMOLITION.
- G. MAINTAIN ACCESS TO EXITS & EXIT STAIRS AT ALL TIMES. FIRE ALARMS & SMOKE DETECTION SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES. PROTECT SMOKE DETECTORS AS REQUIRED & IN CONFORMANCE WITH CODES & LOCAL AUTHORITIES HAVING JURISDICTION.
- H. FOR ALL SURFACES SCHEDULED TO REMAIN, PATCH & MATCH SURFACES DISTURBED BY DEMOLITION OR REMOVAL OF EQUIPMENT OR UTILITIES. INSTALL PATCHING TO MATCH ADJACENT WORK IN FINISH.
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- J. ALL EXISTING ROOF PENETRATIONS, UTILITIES, AND ROOF TOP EQUIPMENT LOCATIONS ARE "APPROXIMATE." CONTRACTOR RESPONSIBILITIES FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS.
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- M. CONTRACTOR SHALL NOT HAVE ACCESS TO BUILDING INTERIOR. ACCESS TO ROOF AND OTHER AREAS OF WORK WILL BE FROM GRADE.

REFERENCE NOTES

- 1. FLOOR FINISH TO BE REMOVED. PREP AREA FOR NEW FLOOR FINISH.
- 2. EDGE OF EXISTING FLOOR FINISH TO REMAIN.
- 3. EXISTING DOOR TO REMAIN, PROTECT.
- 4. TRANSITION OF NEW FLOOR FINISH TO EXISTING. SEE DETAIL 2/A5.01.
- 5. NEW FLOOR FINISH.
- 6. WALL CABINETS ABOVE.
- 7. EXISTING PLUMBING FIXTURES, WATER CLOSET AND LAVATORY.
- 8. NEW SINGLE BASIN STAINLESS STEEL SINK AND FAUCET, COORD. W/ PLUMBING.
- 9. EXISTING ELECTRICAL ROOM. COORD. W/ ELECTRICAL.
- 10. NEW MILLWORK.
- 11. OWNER FURNISHED/INSTALLED EQUIPMENT. (REFRIGERATOR)

DRAWING LEGEND

- AREA OF REMODEL
- [Hatched Box] FLOOR DEMOLITION AREA
- [Grid Box] NEW FLOORING & RUBBER BASE
- FLOORING:
VCT - ARMSTRONG; IMPERIAL TEXTURE; STANDARD EXCELOX;
COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE
- BASE:
RUBBER BASE TO MATCH EXISTING



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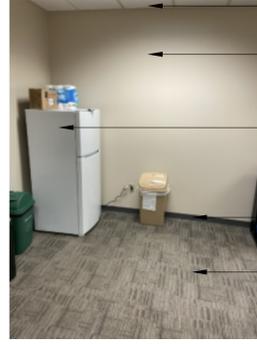
SALT LAKE CITY INTERNATIONAL AIRPORT
 BUILDING GA-50
 BREAKROOM REMODEL
 FLOOR PLANS

SCALE: AS INDICATED
 DRAWING **A1.01**
 PROJECT _____
 SHEET 3 OF 10



EXIST. WATER CLOSET TO REMAIN

PHOTO 9



EXIST. LAY-IN CLNG. TO REMAIN
EXIST. WALL TO REMAIN, PROTECT
TENANT EQUIPMENT
EXIST. RESILIENT BASE TO REMAIN
FLOOR FINISH TO BE REMOVED, COORD. W/ DEMO PLAN

PHOTO 5



EXIST. LAVATORY TO REMAIN, COORD. DRAIN & VENT OF NEW SINK W/ EXIST. PLUMBING

PHOTO 8



EXIST. LAY-IN CLNG. TO REMAIN
EXIST. FIRE SUPPRESSION TO REMAIN
EXIST. MECH. SYST. TO REMAIN
EXIST. LIGHT FIXT. TO REMAIN
EXIST. WALL TO REMAIN
FIRE ALARM TO BE RELOCATED, COORD. W/ ELECTRICAL
TENANT EQUIPMENT

PHOTO 4



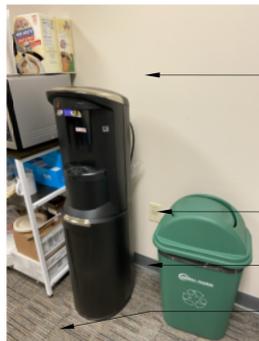
FIRE ALARM TO BE RELOCATED, COORD. W/ ELECTRICAL
EXIST. WALL TO REMAIN
EXIST. DOOR & FRAME TO REMAIN
EXIST. LIGHT SWITCH TO REMAIN

PHOTO 7



EXIST. WALL TO REMAIN
FIRE ALARM TO BE RELOCATED, COORD. W/ ELECTRICAL
TENANT EQUIPMENT
EXIST. LIGHT SWITCH TO REMAIN
EXIST. RESILIENT BASE TO REMAIN
FLOOR FINISH TO BE REMOVED, COORD. W/ DEMO PLAN

PHOTO 3



EXIST. WALL TO REMAIN
EXIST. DATA BOX TO REMAIN, COORD. W/ ELEC.
EXIST. RESILIENT BASE TO REMAIN
FLOOR FINISH TO BE REMOVED, COORD. W/ DEMO PLAN

PHOTO 6



EXIST. LAY-IN CLNG. TO REMAIN
EXIST. WALL TO REMAIN
FIRE ALARM TO BE RELOCATED, COORD. W/ ELECTRICAL
EXIST. MECH. SYST. TO REMAIN
EXIST. LIGHT FIXT. TO REMAIN
EXIST. DOOR & FRAME TO REMAIN
EXIST. RESILIENT BASE TO REMAIN
FLOOR FINISH TO BE REMOVED, COORD. W/ DEMO PLAN

PHOTO 2

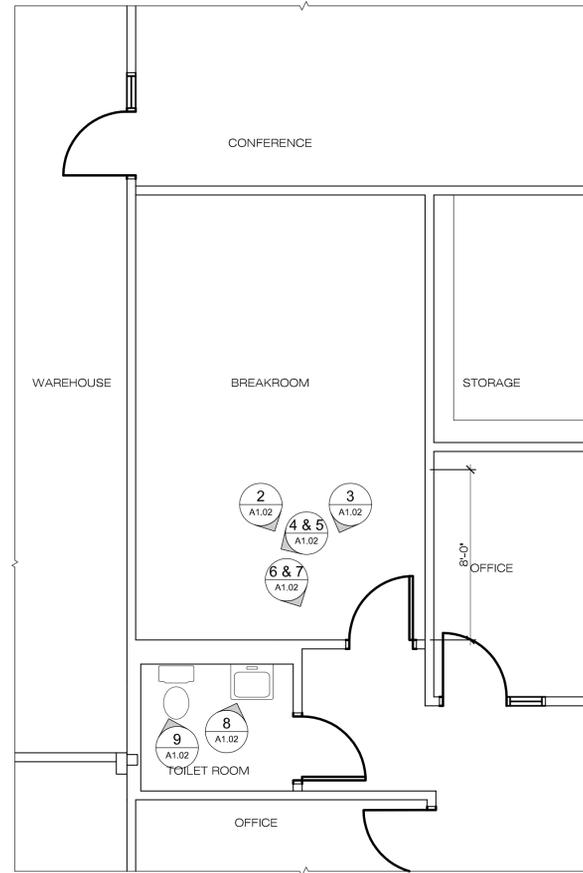


PHOTO PLAN 1

1/4" = 1'-0"

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SALT LAKE CITY INTERNATIONAL AIRPORT
BUILDING GA-50
BREAKROOM REMODEL
PHOTOS - EXISTING CONDITIONS

SCALE: AS INDICATED
DRAWING A1.02
PROJECT _____
SHEET 4 OF 10

SPECIFICATION

ARCHITECTURAL WOODWORK

PART 1 GENERAL

A. DESCRIPTION OF WORK:

- THE EXTENT OF EACH TYPE OF ARCHITECTURAL WOODWORK IS SHOWN ON THE DRAWINGS AND IN SCHEDULES. ARCHITECTURAL WOODWORK IS DEFINED TO INCLUDE (IN ADDITION TO ITEMS SO DESIGNATED ON THE DRAWINGS) MISCELLANEOUS EXPOSED WOOD MEMBERS COMMONLY KNOWN AS "FINISH CARPENTRY" OR "MILLWORK", EXCEPT WHERE SPECIFIED UNDER ANOTHER SECTION OF THESE SPECIFICATIONS.
- THE TYPES OF ARCHITECTURAL WOODWORK INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, THE FOLLOWING: STANDING AND RUNNING TRIM; WOOD CASEWORK; PLASTIC LAMINATE FINISHED CASEWORK; PLASTIC LAMINATE COUNTERTOPS; WOOD SHELVING; AND PREFINISHED PLYWOOD PANELING.

B. QUALITY STANDARDS:

- ALL MATERIALS SHALL BE FIRE TREATED AND WILL MEET ALL REQUIREMENTS FOR FLAME SPREAD <25 AND SMOKE DEVELOPMENT <450.
- EXCEPT AS OTHERWISE SHOWN OR SPECIFIED, COMPLY WITH SPECIFIED PROVISIONS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) "QUALITY STANDARDS."

PART 2 PRODUCTS

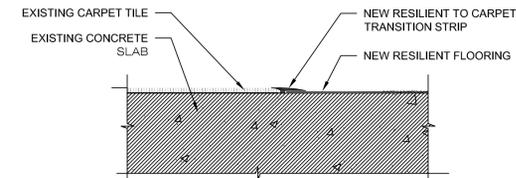
A. PLASTIC-LAMINATED-FACED ARCHITECTURAL CABINETS:

- QUALITY STANDARD: COMPLY WITH THE "ARCHITECTURAL WOODWORK STANDARDS" FOR GRADES OF ARCHITECTURAL PLASTIC-LAMINATE CABINETS INDICATED FOR CONSTRUCTION, FINISHES, INSTALLATION, AND OTHER REQUIREMENTS.
- GRADE: PREMIUM.
- TYPE OF CONSTRUCTION: FRAMELESS.
- CABINET, DOOR, AND DRAWER FRONT INTERFACE STYLE: FLUSH OVERLAY.
- PLASTIC LAMINATE: COMPLY WITH NEMA LD3; TYPE, THICKNESS, COLOR, PATTERN AND FINISH AS INDICATED FOR EACH APPLICATION.
- CABINET CONSTRUCTION: 3/4-INCH PLYWOOD OR PARTICLE BOARD.

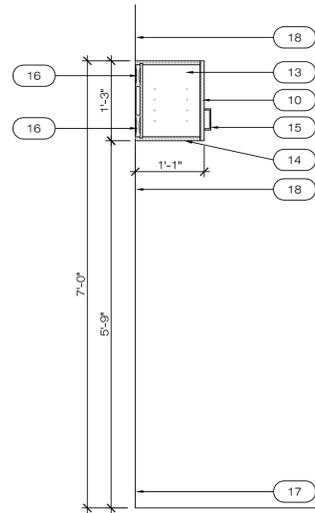
PART 3 EXECUTION

A. INSTALLATION:

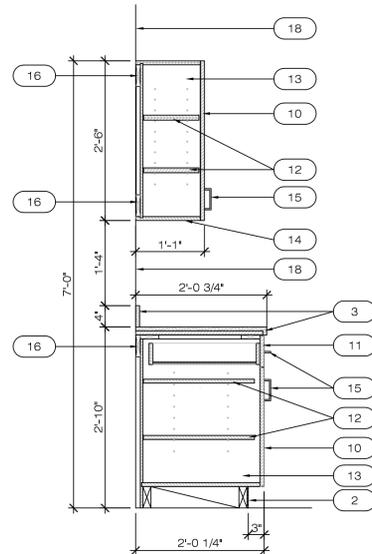
- INSTALL THE WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. INSTALL TO A TOLERANCE OF 1/8" IN 8'-0" FOR PLUMB AND LEVEL (INCLUDING COUNTERTOPS); AND WITH NO OFFSET IN FLUSH ADJOINING SURFACES, 1/8" MAXIMUM OFFSETS IN REVEALED ADJOINING SURFACES.
- SCRIBE AND CUT WORK TO FIT ADJOINING WORK, AND REFINISH CUT SURFACES OR REPAIR DAMAGED FINISH AT CUTS.
- CASEWORK: INSTALL WITHOUT DISTORTION SO THAT DOORS AND DRAWERS WILL FIT OPENINGS PROPERLY AND BE ACCURATELY ALIGNED. ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION. COMPLETE THE INSTALLATION OF HARDWARE AND ACCESSORY ITEMS AS INDICATED.
- COUNTERTOPS: ANCHOR SECURELY TO BASE UNITS AND OTHER SUPPORT SYSTEMS AS INDICATED.



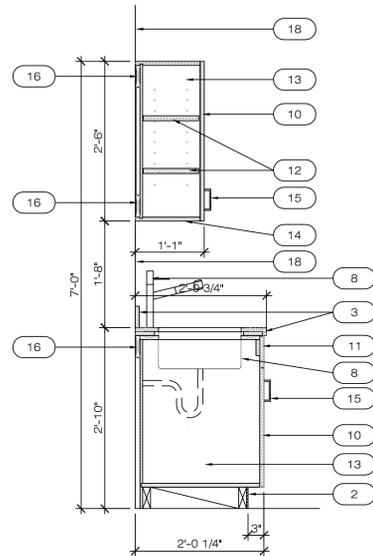
CARPET / RESILIENT TRANSITION 2
3" = 1'-0"



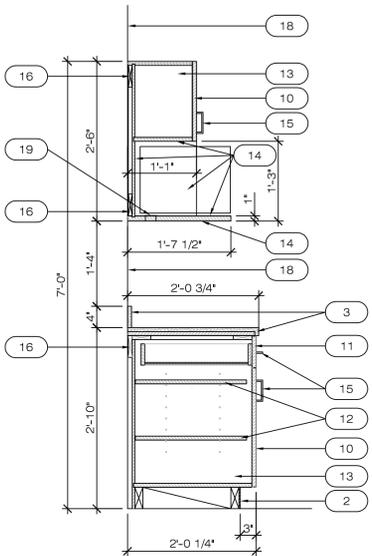
CABINET SECTION 6
3/4" = 1'-0"



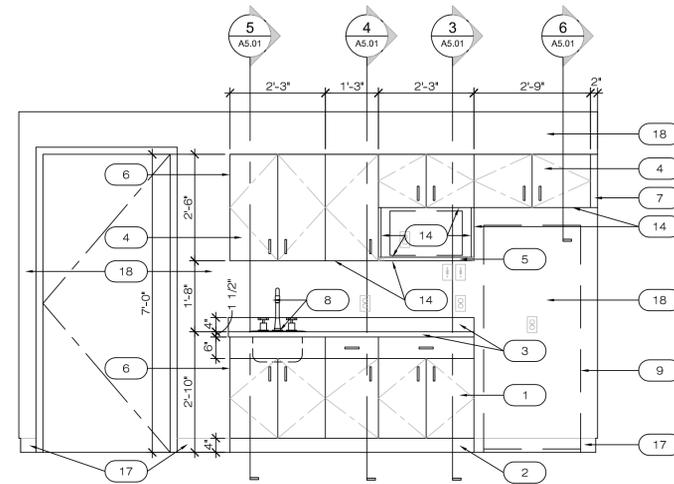
CABINET SECTION 4
3/4" = 1'-0"



CABINET SECTION 5
3/4" = 1'-0"



CABINET SECTION 3
3/4" = 1'-0"



INTERIOR ELEVATION 1
1/2" = 1'-0"

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REFERENCE NOTES

- PLASTIC LAMINATE BASE CABINET (PL-1)
- TOEKICK - RUBBER BASE TO MATCH EXISTING (B-1)
- PLASTIC LAMINATE COUNTER & BACKSPLASH (PL-2)
- PLASTIC LAMINATE WALL CABINET (PL-1)
- PLASTIC LAMINATE MICROWAVE SHELF. SHELF CORNERS TO BE RADIUSED 1.5" DIA. (PL-1)
- FINISHED PLASTIC LAMINATE END PANEL (PL-1)
- PLASTIC LAMINATE FILLER/SCRIBE PANEL (PL-1)
- S.S. SINK & FAUCET. COORDINATE W/ PLUMBING
- EXISTING TENANT APPLIANCE (REFRIGERATOR)
- PLASTIC LAMINATE DOOR FACE (PL-1)
- PLASTIC LAMINATE DRAWER FACE (PL-1)
- ADJUSTABLE SHELF - WHITE MELAMINE
- CABINET BOX - WHITE MELAMINE
- PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES (PL-1)
- 4" WIRE DOOR/DRAWER PULL
- CONTINUOUS CABINERY MOUNTING CLEAT
- NEW RUBBER BASE TO MATCH EXISTING (B-1)
- PAINT & REPAIR EXISTING WALL TO MATCH EXISTING (P-1)
- 2" DIA. GROMMET, BLACK

FINISHES

- PLASTIC LAMINATE FINISHES:
- PL-1 FORMICA #837-58 "GRAPHITE"
 - PL-2 FORMICA #6220-58 "SMOKE QUARSTONE"
- RUBBER BASE:
- B-1 MATCH EXISTING
- FLOORING:
- F-1 ARMSTRONG; STANDARD EXCELON; IMPERIAL TEXTURE; COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE
- PAINT:
- P-1 MATCH EXISTING



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ENGINEERING DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550
PROJECT ADDRESS:
1911 2200 WEST
SALT LAKE CITY, UTAH 84116

SALT LAKE CITY INTERNATIONAL AIRPORT
BUILDING GA-50
BREAKROOM REMODEL
ELEVATIONS AND DETAILS

SCALE: AS INDICATED

DRAWING **A5.01**
PROJECT _____
SHEET 5 OF 10

BUILDING SERVICES PIPING MATERIALS LISTING AND IDENTIFICATION	
POTABLE WATER PIPING SYSTEMS: ABOVE-GRADE - COPPER PIPE AND TUBING MEETING REQUIREMENTS OF ASTM B 88, TYPE L WITH WROUGHT COPPER SWEAT FITTINGS WITH 95/5 OR 96/4 TIN-ANTIMONY SOLDER.	
ABOVE-GRADE - CROSS-LINKED POLYETHYLENE (PEX) TUBING MEETING REQUIREMENTS OF ASTM F876 AND ASTM F877 CSA INTERNATIONAL B137.5, WITH MECHANICAL FLARE OR CRIMP FITTINGS.	
SANITARY WASTE AND VENT PIPING SYSTEMS: ABOVE GRADE - PVC SCHEDULE 40 SOLID-WALL ASTM D 2665, PLASTIC PIPE AND SOCKET TYPE FITTINGS, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. JOINED USING CEMENT PRIMER MEETING REQUIREMENTS OF ASTM F 656 AND PIPE CEMENT MEETING REQUIREMENTS OF ASTM D 2564.	

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES (1)
	SINK	1-1/2"	(E)	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL COUNTER MOUNTED
	ICE MAKER BOX	--	--	3/8"	--	RECESSED ICE MAKER WALL BOX INSTALL 24" A.F.F.

NOTES:
(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN OR INSTALLATION.

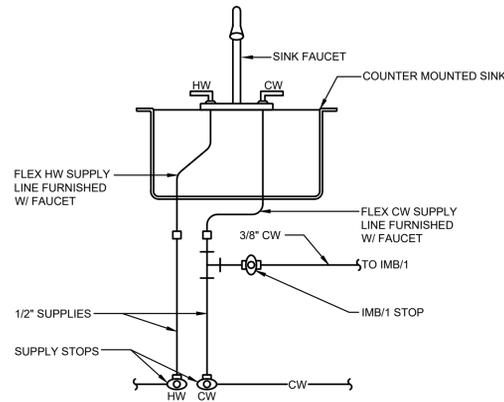
PLUMBING FIXTURE DESCRIPTION

SINK: JUST MODEL SL-1921-A-GR. 19" X 21" X 7-1/2" D, 18 GA., 304 STAINLESS STEEL BOWL, SINGLE HOLE PUNCHED, COUNTER MOUNTED, SELF RIMMING TYPE WITH SOUND DAMPENED BOWL AND CUP STRAINER. PROVIDE CHROME PLATED TAIL PIECE AND P-TRAP WITH UNION CONNECTION. PROVIDE DECK MOUNTING CLIPS TO SECURE SINK TO COUNTERTOP. SINK FAUCET SHALL BE COUNTERTOP DECK MOUNTED MOEN MODEL 7864 CHROME PLATED PULL DOWN KITCHEN FAUCET, SINGLE LEVER CONTROL WITH INDEXED HOT AND COLD WATER POSITIONS 3/8" FLEXIBLE SUPPLIES, 90 DEG SWING GOOSENECK FAUCET WITH FLEXIBLE WEIGHTED HOSE AND SECURE DOCKING AERATED FAUCET HEAD.

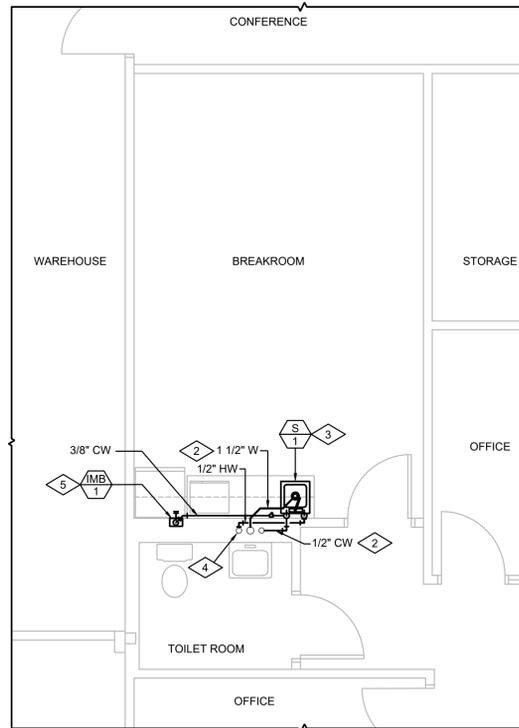
ACCEPTABLE SINK MANUFACTURERS INCLUDE: JUST, ELKAY, MOEN AND KOHLER
ACCEPTABLE FAUCET MANUFACTURERS INCLUDE: MOEN, GROHE, DELTA AND KOHLER

ICE MAKER BOX: GUY GRAY MODEL MIB3AB 7" x 7" x 2-1/2" DEEP RECESSED WALL TYPE BOX, FLANGED FACE, 20 GAUGE POWDER COATED STEEL CONSTRUCTION WITH BRASS, QUARTER TURN LEAD FREE VALVE, NSF61 COMPLIANT. WHITE IN COLOR. 1/2" INLET FOR PEX CONNECTION

ACCEPTABLE MANUFACTURERS INCLUDE: GUY GRAY, SIOUX CHIEF AND OATEY

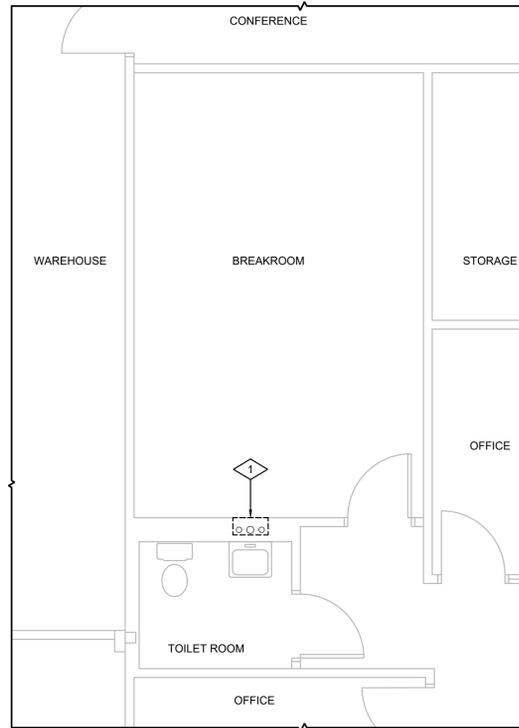


SINK WATER SUPPLY PIPING DETAIL 1
NOT TO SCALE P1.01



REMODEL PLUMBING PLAN 2

1/4" = 1'-0"



PLUMBING DEMO PLAN 1

1/4" = 1'-0"

GENERAL NOTES

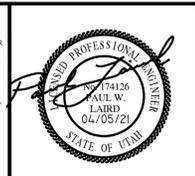
- EXISTING CONDITIONS: BUILDING IS EXISTING. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY EXISTING JOB SITE CONDITIONS AND LOCATIONS OF EXISTING PLUMBING SYSTEMS.
- DO NOT SCALE PLUMBING DRAWINGS. PIPE ROUTING INDICATED IS APPROXIMATE. DIAGRAMMATIC AND IS NOT TO BE SCALED.
- REFER TO ARCHITECTURAL DRAWINGS FOR CABINERY AND FLOOR PLAN DRAWINGS. FIELD VERIFY FINAL PLACEMENT OF PLUMBING FIXTURES PRIOR TO INSTALLATION OF PIPING SYSTEMS.
- CODES AND ORDINANCES: ALL PLUMBING WORK SHALL BE INSTALLED IN CONFORMANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE AND SLCA REQUIREMENTS.

REFERENCE NOTES

- CUT EXISTING WALL AND EXPOSE EXISTING WATER AND DRAIN LINES SERVING RESTROOM LAVATORY
- ROUGH IN NEW 1-1/2" WASTE AND 1/2" HW AND CW LINES FOR NEW SINK. CONNECT NEW WASTE LINE TO EXISTING WASTE LINE SERVING LAVATORY. CUT AND SOLDER CONNECTIONS TO EXISTING HW AND CW LINES AS NEEDED. INSTALL NEW QUARTER TURN STOPS ON WATER LINES.
- INSTALL NEW BREAK ROOM SINK IN THIS LOCATION. SECURE SINK TO NEW CABINERY. EXTEND NEW FLEXIBLE CW AND HW LINES FROM QUARTER TURN STOPS AND CONNECT TO NEW SINK FAUCET. PIPE 1-1/2" WASTE LINE FROM SINK TAIL PIECE AND P-TRAP AND CONNECT TO WASTE LINE AT WALL.
- PATCH, REPAIR AND REPAINT THE WALL UPON COMPLETION OF WORK. PROVIDE CHROME PLATED ESCUTCHEONS AT CABINET/WALL PIPE PENETRATIONS.
- INSTALL ICE MAKER BOX 24" A.F.F. IN THIS LOCATION. EXTEND NEW 3/8" CW LINE FROM SINK SERVICE LINE THROUGH CABINERY TO ICE MAKER BOX. PROVIDE SEPARATE STOP VALVE ON COLD WATER LINE AT SINK. SEE DETAIL 1/P1.01

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SALT LAKE CITY INTERNATIONAL AIRPORT
BUILDING GA-50
BREAKROOM REMODEL

SCALE: AS INDICATED
DRAWING P1.01
PROJECT XXXXXXXX
SHEET 6 OF 10

PANELBOARD SCHEDULE

PANEL	C	TYPE	EXISTING	120/208	VOLTS	3	PH	X	LUGS
MOUNTING	(SECTION 2)	FLUSH	W	20	W	4	W	X	BREAKER
	X SURFACE			6	D (in)				ISO GROUND
				H					200% NEUTRAL SPD

BRANCH BREAKERS															
ITEM	AMPS	POLE	SIZE	CIR NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR NO.	AMPS	POLE	SIZE	ITEM
					A	B	C	A	B	C					
EXISTING LOAD	20	1		43						44	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		45						46	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		47						48	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		49						50	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		51						52	20	1		SPARE	
EXISTING LOAD	20	1		53						54	20	1		SPARE	
EXISTING LOAD	20	1		55						56	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		57						58	20	1		EXISTING LOAD	
REFRIGERATOR	20	1		59						60	20	1		EXISTING LOAD	
MICROWAVE	20	1	8	61	1500			865		62	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		63						64	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		65						66	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		67						68	20	1		SPARE	
SPARE	20	1		69						70	20	1		SPARE	
SPARE	20	1		71						72	20	1		SPARE	
SPARE	20	1		73						74	20	1		SPARE	
SPARE	20	1		75						76	20	1		SPARE	
SPARE	20	1		77						78	20	1		SPARE	
EXISTING LOAD	20	1		79						80	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		81						82	20	1		EXISTING LOAD	
EXISTING LOAD	20	1		83						84	20	1		EXISTING LOAD	
					1500	0	865	0	0	0	CONNECTED LOAD SUBTOTAL				
					1500	0	865	0	0	0	SEC 2 AMPS/PHASE				
					13	0	7	SEC 2 AMPS/PHASE				2365 VA			

* Provide 5 mA GFCI Circuit Breaker

PROJECT: 0 EQUIP RATING: AMP RMS SYM.

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
CONDUCTOR LENGTH (FT)	BRANCH CIRCUIT VOLTAGE		
	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #6 AWG	
>380	NOTE B	NOTE B	

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED. PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

INDEX OF ELECTRICAL DRAWINGS

E001	SYMBOLS, SCHEDULES AND NOTES
E002	ELECTRICAL SPECIFICATIONS
E101	ELECTRICAL PLAN
E201	ELECTRICAL DIAGRAMS

SYMBOL SCHEDULE

NOTES:

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
- NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED), USE 'HD' 480V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS INDICATE A DOUBLE FACE UNIT.
- DEVICES NOTED WITH AN 'A' ADJACENT TO IT INDICATES TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT INDICATES NEMA CONFIGURATION.
- SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
- COORDINATE WITH DOOR HARDWARE SUPPLIER.
- FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS MOUNT AT +16" TO BOTTOM OF THE BOX FROM FINISH FLOOR, OR AS NOTED.
- ARROWS SHOWN ON DEVICE INDICATE THE SENSOR AIMING LOCATION.
- CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE SHOWN IN CAMERA TAGS.
- POINT ON TRACK OF OVERHEAD DOOR 6" FROM TOP OF DOOR UNLESS OVERHEAD DOOR IS ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW DENOTES FRONT OF RANK.
- SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
- MOUNTING HEIGHTS IS TO BOTTOM OF DISPLAY.
- * TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

GENERAL				LIGHTING				POWER				FIRE ALARM			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
→	ONE CIRCUIT, HOME RUN TO PANEL			○	CEILING LIGHT FIXTURE	CEILING	1.	⊕	RECEPTACLE SWITCH PACK	ABOVE CEILING		⊙	BELL	+94"	2.
→→	TWO CIRCUIT, HOME RUN TO PANEL			⊙	WALL LIGHT FIXTURE	AS NOTED	1.	⊕	POWER POLE			⊙	CHIME/STROBE	+94"	2.
→→→	THREE CIRCUIT, HOME RUN TO PANEL			⊙	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	⊕	PULLMOLD/SURFACE RACEWAY	+46" OR AS NOTED	2. SEE SPEC.	⊙	FIRE ALARM MANUAL STATION	+46"	2.
→→→→	CONDUIT RUN CONCEALED IN WALL OR CEILING			⊙	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	⊕	FLAT PANEL DISPLAY WALL BOX, TVSS RECEPT. DATA AND OTHER DEVICES. REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM & SPEC. 26 2725	⊙	FIRE ALARM SIGNAL HORN / STROBE	+94"	2.
→→→→→	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			⊙	LIGHT FIXTURE	AS NOTED	1.	⊕	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM AND SPEC.	⊙	FIRE ALARM SIGNAL HORN / STROBE	+94"	2.
→→→→→	CONDUIT UP			⊙	EGRESS LIGHT FIXTURE	AS NOTED	1.	⊕	CLOCK OUTLET	+90"	2.	⊙	FIRE ALARM SIGNAL SPEAKER / STROBE	+94"	2.
→→→→→	CONDUIT DOWN			⊙	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM	⊕	DOOR BELL CHIME	+90"	2.	⊙	FIRE ALARM STROBE	+94"	2.
→→→→→	CONDUIT STUB LOCATION	CAP CONDUIT		⊙	BOLARD	CONCRETE BASE	1.	⊕	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	⊙	FIRE ALARM STROBE	+94"	2.
→→→→→	CONDUIT/CIRCUIT CONTINUATION			⊙	STEP LIGHT FIXTURE	AS NOTED	1.	⊕	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.	⊙	FIRE ALARM STROBE	+94"	2.
				⊙	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.	⊕	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED		⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FLOOD OR TRACK FIXTURE	AS NOTED	1.	⊕	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT D = DIMMING AND DAY-LIGHT CONTROL)	+46"	2.4. SEE DIAGRAM, SPEC.	⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1.3. 8.	⊕	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT D = DIMMING AND DAY-LIGHT CONTROL)	+46"	2.4. SEE DIAGRAM, SPEC.	⊙	FIRE ALARM STROBE	+94"	2.
				⊙	EMERGENCY LIGHT FIXTURE	AS NOTED	1.	⊕	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED		⊙	FIRE ALARM STROBE	+94"	2.
				⊙	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	⊕	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.	⊙	FIRE ALARM STROBE	+94"	2.
				⊙	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.	⊕	TIME CLOCK	+60"	2.	⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.	⊕	RECEPTACLE SWITCH PACK	ABOVE CEILING		⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	GROUND FAULT INTERRUPTER FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/CAP.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CORD DROP		SEE DIAGRAM	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CORD REEL		SEE DIAGRAM	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	TOMBSTONE RECEPTACLE			⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	BELL	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	CHIME/STROBE	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM MANUAL STATION	+46"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM SIGNAL HORN / STROBE	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM SIGNAL SPEAKER / STROBE	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM STROBE	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM STROBE ONLY	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙	FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+94"	2.	⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙				⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙				⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙				⊕				⊙	FIRE ALARM STROBE	+94"	2.
				⊙				⊕				⊙	FIRE ALARM STROBE	+94"	2.

ELECTRICAL SPECIFICATIONS DIVISION 26

1. ELECTRICAL GENERAL PROVISIONS:
- A. DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS:
- | | | | | | | | | | |
|---|----------------------------------|-------------------------------|-------------|----------------|--------------------------------|----------------|----------------|----------------------------------|---|
| <p>1. ELECTRICAL CONNECTIONS FOR EQUIPMENT</p> <p>2. GROUNDING</p> <p>3. CONDUIT RACEWAY</p> <p>4. CONDUCTORS AND CABLES</p> <p>5. ELECTRICAL BOXES AND FITTINGS</p> <p>6. SUPPORTING DEVICES</p> <p>7. ELECTRICAL, SEISMIC CONTROL WIRING DEVICES</p> <p>8. VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK. ALL COSTS ARISING FROM SITE CONDITIONS AND/OR PREPARATION SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL CHARGES WILL BE ALLOWED DUE TO INADEQUATE SITE INSPECTION.</p> <p>C. QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), COMPLY WITH REQUIREMENTS OF STATE AND LOCAL ORDINANCES. OBTAIN ALL PERMITS, INSPECTIONS, ETC. FROM AUTHORITY HAVING JURISDICTION (HAJ). EMPLOY ONLY QUALIFIED CRAFTSMEN WITH AT LEAST THREE YEARS OF EXPERIENCE. WORKMANSHIP SHALL BE NEAT, HAVE A GOOD MECHANICAL APPEARANCE AND CONFORM TO BEST ELECTRICAL STATE CONTRACTING LICENSE. PROVIDE EQUIPMENT AND MATERIAL THAT ARE UNDERWRITERS LABORATORIES INC. (UL) LISTED AND LABELED.</p> <p>1. SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT, PREPARE COMPLETE SHOP DRAWINGS.</p> <p>2. ELECTRONIC SUBMITTAL REQUIREMENTS:</p> <p>A. PROVIDE SUBMITTALS IN PORTABLE DOCUMENT FORMAT (PDF).</p> <p>B. DOCUMENTS MUST BE ELECTRONICALLY BOOKMARKED AND KEYWORD SEARCHABLE USING ADOBE ADOBE (HTTP://WWW.ADOBE.COM/ACROBAT) OR BLUEBEAM REVU (HTTP://WWW.BLUEBEAM.COM) FOR EACH RELEVANT SECTION. INCLUDE ELECTRONIC BOOKMARKS SEPARATING "LIGHT FIXTURES" FROM "PANELBOARDS".</p> <p>C. ELECTRONICALLY HIGHLIGHT ALL OPTIONS FOR LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. MANUAL HIGHLIGHTING AND SCANNING OF THE DOCUMENTS IS NOT ACCEPTABLE AND WILL NOT BE REVIEWED.</p> <p>D. PROVIDE ONLY COMPLETED CUTSHEETS FOR ALL FIXTURE AND EQUIPMENT TYPES. BLANK CUTSHEETS SUBMITTED WITH A SCHEDULE ARE NOT ACCEPTABLE AND WILL NOT BE REVIEWED.</p> <p>E. A MAXIMUM OF ONE SUBMITTAL PER SPECIFICATION SECTION IS ALLOWED. IT IS NOT ACCEPTABLE TO PROVIDE A PRODUCT BY PRODUCT SUBMITTAL. SINGLE PRODUCT BY PRODUCT SUBMITTALS WILL NOT BE REVIEWED.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">WIRING DEVICES</td> <td style="width: 50%;">MOTOR AND CIRCUIT DISCONNECTS</td> </tr> <tr> <td>PANELBOARDS</td> <td>LIGHT FIXTURES</td> </tr> <tr> <td>OVERCURRENT PROTECTIVE DEVICES</td> <td>LIGHT CONTROLS</td> </tr> <tr> <td>MOTOR STARTERS</td> <td>FIRE ALARM AND DETECTION SYSTEMS</td> </tr> </table> <p>D. RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS, REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL BURIED OR CONCEALED WORK. MARK RECORD DRAWINGS TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMENT, INCLUDING CONCEALED OR EMBEDDED CONDUIT AND JUNCTION BOXES AND ALL CHANGES AND DEVIATIONS IN THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS.</p> <p>E. OPERATION AND MAINTENANCE MANUALS: FURNISHED UNDER THIS DIVISION. PROVIDE OPERATING INSTRUCTION AND MAINTENANCE DATA BOOKS FOR ALL EQUIPMENT AND MATERIALS.</p> <p>F. GUARANTEE: ENSURE THAT ELECTRICAL SYSTEMS INSTALLED UNDER THIS CONTRACT IS IN PROPER WIRING ORDER AND IN COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, AND/OR AUTHORIZED CHANGES, WITHOUT ADDITIONAL CHARGE. REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FORM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.</p> <p>G. FIRE PROTECTION SEALS: SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING AND AFTER FIRE.</p> <p>H. POWER OUTAGES: ALL POWER OUTAGES REQUIRED FOR EXECUTION OF THIS WORK SHALL OCCUR DURING THE NON-STANDARD WORKING HOURS AND AT THE CONVENIENCE OF THE OWNER. INCLUDE ALL COSTS FOR OVERTIME WORK IN BID.</p> <p>2. ELECTRICAL CONNECTIONS FOR EQUIPMENT: VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED, FOR PERMANENTLY INSTALLED FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-TITE CONNECTION, FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRING DEVICE, CORD CAP, AND MULTI-CONDUCTOR CORD.</p> <p>3. GROUNDING: PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING COMPONENTS, AND ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM. PROVIDE AN NEC-BONDING GROUNDING CONDUCTOR IN ALL RACEWAYS USED FOR POWER DISTRIBUTION.</p> <p>4. CONDUIT RACEWAYS: PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED, WITH MINIMUM TRADE SIZE OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS AND APPLICABLE REQUIREMENTS OF NEC AND NECA "STANDARD OF INSTALLATION" IN ACCORDANCE WITH THE FOLLOWING:</p> <p>A. FEEDERS: INSTALL FEEDERS RATED 100 AMPS AND GREATER, IN ELECTRICAL METALLIC CONDUIT (EMT).</p> <p>B. BRANCH CIRCUITS, AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAN 100 AMPS, INSTALL IN ELECTRICAL METALLIC TUBING (EMT). INSTALL FLEXIBLE CONDUIT FOR CONNECTIONS OF MOTORS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT OR VIBRATIONS. PROVIDE "Z" EXPANSION FITTINGS ON ALL CONDUITS CROSSING BUILDING EXPANSION JOINTS.</p> <p>C. PROVIDE INSULATED THROAT CONNECTORS FOR CONDUIT 3/4" THRU 1-1/4", OR INSULATED THROAT BUSHINGS FOR CONDUITS 1-1/2" AND LARGER.</p> | WIRING DEVICES | MOTOR AND CIRCUIT DISCONNECTS | PANELBOARDS | LIGHT FIXTURES | OVERCURRENT PROTECTIVE DEVICES | LIGHT CONTROLS | MOTOR STARTERS | FIRE ALARM AND DETECTION SYSTEMS | <p>9. PANELBOARDS</p> <p>10. OVERCURRENT PROTECTIVE DEVICES</p> <p>11. MOTOR STARTERS</p> <p>12. MOTOR AND CIRCUIT DISCONNECTS</p> <p>13. LIGHT FIXTURES</p> <p>14. LIGHT CONTROL</p> <p>15. ELECTRICAL IDENTIFICATION</p> <p>16. FIRE ALARM AND DETECTION SYSTEMS</p> <p>5. CONDUCTORS AND CABLES: PROVIDE FACTORY-FABRICATED CONDUCTORS FOR SIZED, RATINGS, MATERIAL, AND TYPES INDICATED FOR EACH SERVICE. PROVIDE COPPER CONDUCTORS, WITH THIN/THIN INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC; MINIMUM SIZE TO BE #12 AWG. PROVIDE STRANDED CONDUCTORS FOR #6 AWG AND LARGER.</p> <p>6. ELECTRICAL BOXES AND FITTINGS: PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION RESISTANT CAST METAL WEATHERPROOF OUTLET WIRING BOXES, CODE-GAGE SHEET STEEL JUNCTIONS AND PULL BOXES, CAST IRON WEATHERPROOF ADJUSTABLE FLOOR BOXES, GALVANIZED CAST METAL CONDUIT BODIES, CORROSION RESISTANT FLANGED STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. FASTEN BOXES RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED, OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY. USE BAR HANGERS FOR STUD CONSTRUCTION.</p> <p>7. SUPPORTING DEVICES: PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE AND TWO HOLE CONDUIT STRAPS, OFFSET CONDUIT CLAMPS, EXPANSION ANCHORS, NOT LIMITED THREADED RODS, U-CHANNEL STRUT SYSTEM, AND ALL ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH TOGGLE BOLTS, RECOGNIZED INDUSTRY PRACTICES TO INSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS. PROVIDE RIGID ATTACHMENT OF ALL FLOOR MANUFACTURERS WRITTEN INSTRUCTIONS AND WITH THE FLOOR SLAB OR STRUCTURAL MOUNTED EQUIPMENT TO SYSTEM.</p> <p>8. ELECTRICAL SEISMIC CONTROL: PROVIDE SEISMIC CONTROL EQUIPMENT INCLUDING BUT NOT LIMITED TO: VIBRATION ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANCHORS, INSERTS AND ATTACHMENTS, SEISMIC SHIMMER AND BRACKING TO MEET THE SEISMIC REQUIREMENTS FOR THE PROJECT SITE.</p> <p>9. WIRING DEVICES: PROVIDE GRADE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STD. PUB. NO. WD-1. PROVIDE HEAVY DUTY SPECIFICATION GRADE, 20 AMPERES RATED, GROUNDING TYPE CONVENIENCE OUTLETS. PROVIDE 20-AMPERES RATED TOGGLE SWITCHES. CONSTRUCT WIRING DEVICES OF HEAVY DUTY HIGH IMPACT NYLON AND PROVIDE COVER PLATES TO MATCH. PROVIDE DEVICES IN COLORS SELECTED BY ARCHITECT.</p> <p>10. PANELBOARDS: PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES, IN SIZES AND NEMA TYPES AS INDICATED, CODE-GAGE MINIMUM 16-GAUGE THICKNESS. PROVIDE DEAD FRONT SAFETY TYPE PANELBOARDS WITH DOOR-IN-DOOR HINGED FRONTS. EQUIP WITH COPPER BUS BARS, FULL SIZED NEUTRAL AND GROUND BUS. PROVIDE ENCLOSURES FABRICATED BY SAME MANUFACTURER AS OVERCURRENT DEVICES. BOLT ENGRAVED PLASTIC LAMINATE LABELS INDICATING PANEL NAME AND VOLTAGE ON THE INTERIOR AND EXTERIOR OF PANELBOARD OR SWITCHBOARD.</p> <p>11. OVERCURRENT PROTECTIVE DEVICES: PROVIDE OVERCURRENT PROTECTIVE DEVICES OF THE SAME MANUFACTURER AS THE SWITCHBOARD AND/OR PANELBOARD MANUFACTURER. PROVIDE FACTORY-ASSEMBLED DEVICES OF AMPERAGE, VOLTAGE, AND RMS INTERRUPTING RATING SHOWN. PROVIDE DEVICES AS FOLLOWS:</p> <p>A. MOLDED CASE THERMAL TRIP CIRCUIT BREAKERS:</p> <ol style="list-style-type: none"> PROVIDE FACTORY-ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS WITH PERMANENT THERMAL TRIP AND ADJUSTABLE INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. SERIES RATING IS NOT ACCEPTABLE. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND IN AN AMBIENT TEMPERATURE OF 40 DEGREES C. CIRCUIT BREAKERS 15 AMPS THROUGH 599 AMPS SHALL BE MOLDED CASE SOLID-STATE CIRCUIT BREAKERS. <p>B. MOLDED CASE SOLID-STATE CIRCUIT BREAKERS:</p> <ol style="list-style-type: none"> PROVIDE FACTORY ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS UL LISTED FOR APPLICATION AT 100% OF THEIR CONTINUOUS AMPERE RATING. CIRCUIT BREAKERS 600 AMPS THROUGH 1199 AMPS SHALL BE MOLDED CASE SOLID-STATE CIRCUIT BREAKERS. SOLID-STATE TRIP MECHANISMS SHALL HAVE THE FOLLOWING FUNCTIONS: ADJUSTABLE LONG TIME AMPERE RATING; ADJUSTABLE LONG TIME DELAY; SHORT TIME PICK UP; ADJUSTABLE SHORT TIME DELAY; ADJUSTABLE INSTANTANEOUS PICK UP. <p>12. MOTOR STARTERS: PROVIDE FACTORY ASSEMBLED, AC-NON-REVERSING MAGNETIC STARTERS RATED AT 600V WITH THERMAL OVERLOAD PROTECTION IN ALL PHASES. MOUNT HAND-OFF-AUTO SWITCH, RED PILOT LIGHT, AND RESET BUTTON IN FACE OF ENCLOSURE. PROVIDE NEMA ENCLOSURE RATINGS BASED ON LOCATION OF INSTALLATION.</p> <p>13. MOTOR AND CIRCUIT DISCONNECTS: PROVIDE HEAVY-DUTY TYPE SAFETY SWITCHES; FUSIBLE OR NON-FUSIBLE AS INDICATED. PROVIDE SWITCHES RATED AT 600 VOLTS, 60 HZ, INCORPORATING QUICK-MAKE, QUICK-BREAK TYPE MECHANISMS. EQUIP WITH OPERATING HANDLE THAT IS CAPABLE OF BEING PADLOCKED IN THE OFF POSITION. PROVIDE NEMA ENCLOSURE RATINGS BASED ON LOCATION OF INSTALLATION.</p> <p>14. LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY SUPPORTS, BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR MOUNTING OF FIXTURES. SUPPORT ALL CEILING MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12 GA. STEEL WIRE ATTACHED TO EACH CORNER, INDEPENDENT OF THE CEILING SYSTEM. PROVIDE BACKING SUPPORTS. SUPPORT ALL BOARD PROTECTION AS REQUIRED TO MAINTAIN FIRE RATINGS OF EACH CEILING IN WHICH FIXTURES ARE INSTALLED. PROVIDE ALL EXTERIOR FIXTURES WITH DAMP OR WET LOCATION LABEL AS REQUIRED BY APPLICATION. PROVIDE CLASS 2 WIRING FOR ALL FIXTURES INDICATED TO HAVE 0-10V DIMMING.</p> <p>15. LIGHTING CONTROLS: PROVIDE ROOM CONTROLLER TO COMPLY WITH IECC. INTERIOR LIGHTING CIRCUITS SHALL BE PROGRAMMED TO RESPOND TO LOW VOLTAGE SWITCH INPUTS AND OCCUPANCY SENSOR. UNIT SHALL MATCH THE LIGHTING AND CONTROL REQUIREMENTS INDICATED. CONTROLLER SHALL FEATURE THE FOLLOWING: SEPARATE COMPARTMENTS FOR LINE VOLTAGE, EMERGENCY VOLTAGE AND LOW VOLTAGE CONNECTIONS, BREAKOUTS FOR DIRECT CONDUIT CONNECTIONS AND ZERO GROSS CIRCUITRY FOR EACH LOAD.</p> <p>16. ELECTRICAL IDENTIFICATION:</p> <p>A. PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED ELECTRICAL LINES, ARC-FLASH HAZARD LABELS (ANSI Z535.4), SOURCE OF SUPPLY LABELS, AVAILABLE FAULT CURRENT LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INSTALLED AS PART OF THIS PROJECT.</p> <p>B. PROVIDE COVERPLATES THAT MATCH DEVICES WITH ETCHED PANEL NAME AND CIRCUIT NUMBER SUPPLYING THE DEVICE.</p> <p>C. PROVIDE PERMANENT LABELS ON COVERPLATES INDICATING SOURCE OF POWER (I.E. PANEL - CIRCUIT #) TO COMPLY WITH NEC 408.4.</p> <p>D. PROVIDE CIRCUIT DIRECTORY THAT CLEARLY IDENTIFIES EACH AND EVERY CIRCUIT TO COMPLY WITH NEC 408.4.</p> <p>17. TELECOMMUNICATIONS: PROVIDE COMPLETE RACEWAY FOR TELEPHONE/DATA SYSTEM. RUN 1" CONDUIT FROM EACH TELEPHONE/DATA OUTLET TO TENANT TELECOMMUNICATIONS PULLBOX. PROVIDE A 5'X2.875" (OR 4-11 1/8"X3.25" SQUARE) DEEP SQUARE OUTLET BOX AT EACH OUTLET LOCATION WITH SINGLE GANG PLASTER OR TILE RING.</p> <p>18. FIRE ALARM AND DETECTION SYSTEMS: PROVIDE AN ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM WITH ALL APPLICABLE PROVISIONS OF THE CURRENT NFPA 72, NATIONAL FIRE ALARM CODE, IF INTERNATIONAL FIRE CODE AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE A MINIMUM OF #14 AWG COPPER WIRING IN 3/4" CONDUIT. FIRE ALARM MC IS NOT ALLOWED.</p> |
| WIRING DEVICES | MOTOR AND CIRCUIT DISCONNECTS | | | | | | | | |
| PANELBOARDS | LIGHT FIXTURES | | | | | | | | |
| OVERCURRENT PROTECTIVE DEVICES | LIGHT CONTROLS | | | | | | | | |
| MOTOR STARTERS | FIRE ALARM AND DETECTION SYSTEMS | | | | | | | | |

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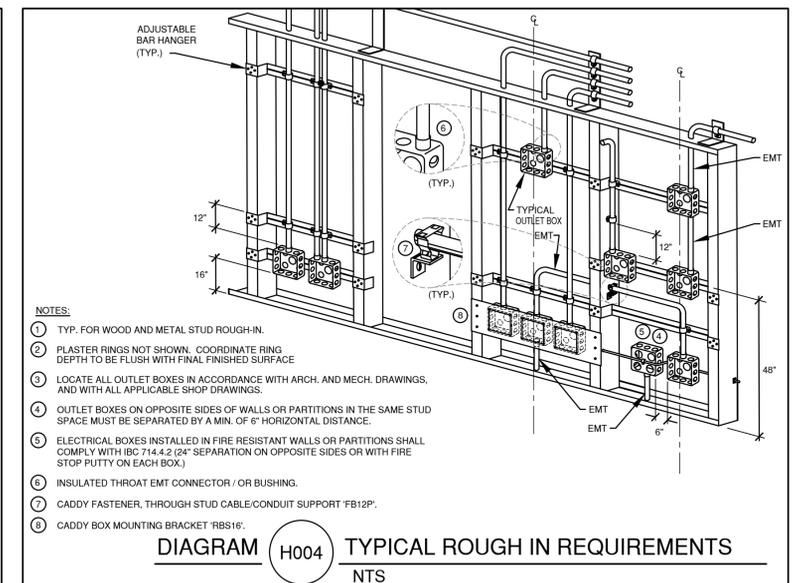
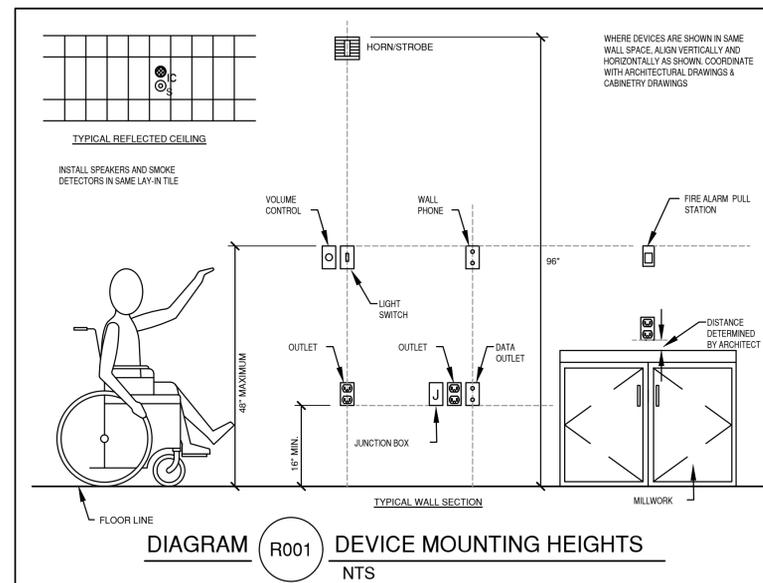
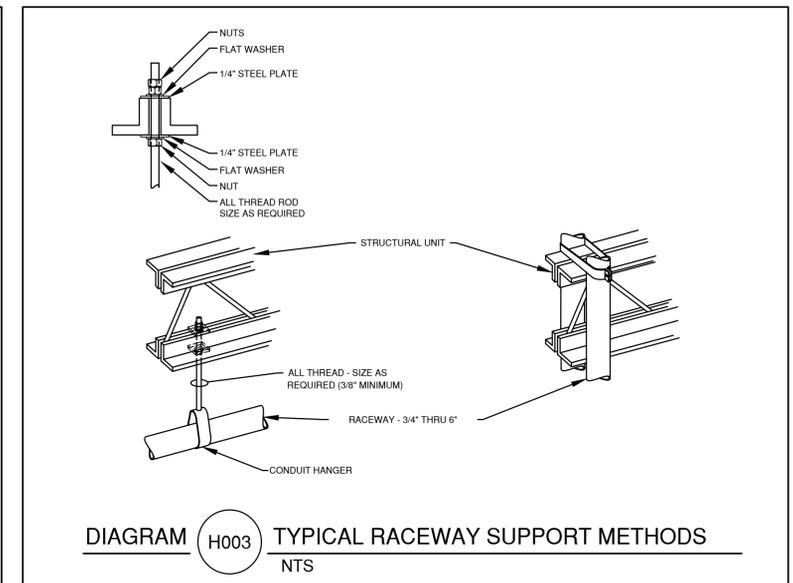
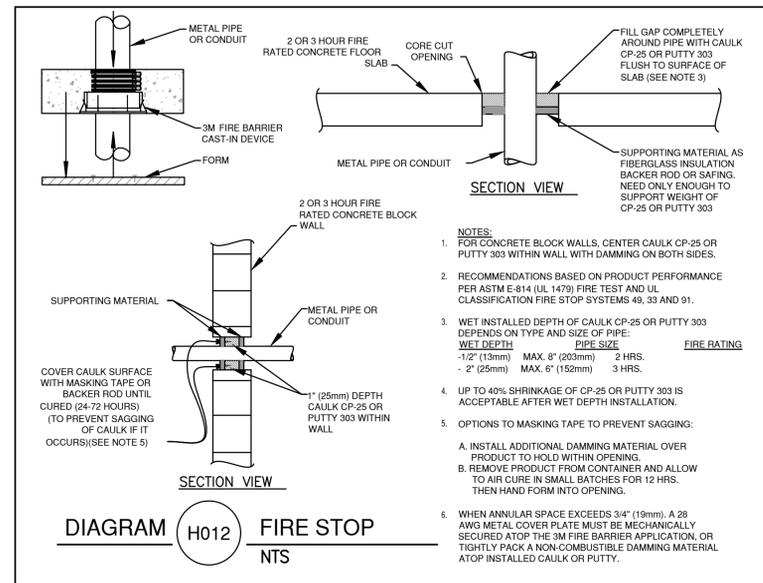


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SALT LAKE CITY INTERNATIONAL AIRPORT
BUILDING GA-50
BREAKROOM REMODEL
ELECTRICAL
SPECIFICATIONS

SCALE: AS INDICATED

DRAWING E002
PROJECT XXXXXXXX
SHEET _____



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SALT LAKE CITY INTERNATIONAL AIRPORT
BUILDING GA-50
BREAKROOM REMODEL
ELECTRICAL DIAGRAMS

SCALE: AS INDICATED
DRAWING E201
PROJECT XXXXXXXX
SHEET