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ARTS FT. LOGAN RENO BUILDING 16 100% CD FOR CONSTRUCTION APRIL 12, 2022

LOCATION MAP:



CONTACTS:

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MEP ENGINEERS:	BG BULIDNGWORKS, INC 1626 COLE BLVD, SUITE 300 LAKEWOOD, COLORADO 8040 CONTACT: MIKE REED PH: 303.278.3820 X5226 mtreed@bgbuildingworks.com



UNIVERSITY OF COLORADO ANSCHUTZ

ARTS FT. LOGAN **RENO BUILDING 16**

3844 & 3854 W. PRINCETON CIR DENVER, CO 80202 STATE PROJECT NO: 22-106819

DRAWING INDEX:

G-001 G-002 A-101 A-401	COVER SHEET, CONTACTS, DRAWING INDEX GENERAL NOTES, SYMBOLS, ABBREVIATIONS, & CODE CODE INFO FIRST FLOOR DEMO PLAN, PLAN, FINISH PLAN, & RCP
M-000	MECHANICAL COVER SHEET
MD-101	MECHANICAL DEMOLITION PLAN
M-001	MECHANICAL SHEDULES
M-101	MECHANICAL AND PLUMBING SHEET
M-201	MECHANICAL DIAGRAMS
M-202	MECHANICAL DIAGRAMS
M-203	MECHANICAL DIAGRAMS
M-204	MECHANICAL DIAGRAMS
E-000	ELECTRICAL COVER SHEET
ED-101	ELECTRICAL DEMOLITION PLAN
E-001	ELECTRICAL COMCHECK

E-101 POWER AND LIGHTING PLAN

E-201 ELECTRICAL SCHEDULES





DATE	DESCRIPTION	
2-15-22	95% CONSTRUCTION DOCUMENTS	
4-12-22	100% CD FOR CONSTRUCTION	

DRAWN BY: KS CHECKED BY: JM PROJECT: 2134FL INITIAL DATE: DEC 21 COVER SHEET, CONTACTS, DRAWING INDEX

IS AN INSTRUMENT OF SERVICES, AND AS SUCH REMAINS USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED WORKSHOP, L.L.C. THE ARCHITECT DISCLAIMS ANY RESP YRIGHT NOTE: THIS DOCUMEN I ARCHITECT. PERMISSION FOR FEMENT WITH ARCHITECTURAL

COP AGRI

A.F.F. A.C.T. A.C. ADJ. AHEC AL	ABOVE FINISH FLOOR ACOUSTIC CEILING TILES AIR CONDITIONING ADJUSTABLE AURARIA HIGHER EDUCATION CENTER ALUMINUM	RAD RECP REF REINF REQD RESIL RM	RADIUS RECEPTACLE REFERENCE REINFORCE/REINFORCING REQUIRED RESILIENT ROOM
ALI @ B.M. BLK BD BLDG B.B.	ALTERNATE AT BENCH MARK BLOCK BOARD BUILDING BULLETIN BOARD	SAN SCH SECT. SHT SIM S.D	SANITARY SCHEDULE SECTION SHEET SIMILAR SMOKE DETECTOR
CCI CPT CLK C.B. CITY CLG CTR C.T.	COLORADO CONSTRUCTIONAL INDUSTRIES (FURNITURE MANUF) CARPET CAULKING CHALK BOARD CITY OF DENVER CEILING CENTER CERAMIC TILE	SPR. SF S.S. STD STL STO STR SUSP SYM	SPRINKLER SQUARE FOOT STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRIC
CLR COL CONC CONST CJ CONT CONTR CORR. C.U.H.	CLEAR COLUMN CONCRETE CONSTRUCTION CONTROL JOINT CONTINUOUS/CONTINUE CONTRACTOR CORRIDOR CABINET UNIT HEATER	T.B. TEL T.T.D. T.O.C. T.O.D. T.O.M. T.O.S. TYP T.D.R.	TACK BOARD TELEPHONE TOILET TISSUE DISPENSER TOP OF CONCRETE TOP OF DECK TOP OF MASONRY TOP OF STEEL TYPICAL TOWEL DISPENSER & RECEPTACLE
DET/DIL DIA DIM DN D.S. DWG	DETAIL DIAMETER DIMENSION DOWN DOWN SPOUT DRAWING		UNIVERSITY OF COLORAD AT DENVER HEALTH SCIENCE CENTER UNDER COUNTER
D.F. ELEC E.W.C.	DRINKING FOUNTAIN ELECTRICAL ELECTRIC WATER COOLER	UNFIN V.I.F. VERT V.C.T	UNFINISHED VERIFY IN FIELD VERTICAL VINYL COMPOSITION THE
ELEV EQ EQUIP EXH. EXIST E.J. EXT FT FIN F.F. F.A.P. F.E. F.E.C. FL F.D.	ELEVATION EQUAL EQUIPMENT EXHAUST EXISTING EXPANSION JOINT EXTERIOR FEET FINISH FINISH FLOOR FIRE ALARM PANEL FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FLOOR /FLOOR LINE FLOOR DRAIN	W.C. W/ W/O WD	WATER CLOSET WITH WITH OUT WOOD
GALV. GA GEN G.C. G.B. GR GYP. BD.	GALVANIZED GAUGE GENERAL GENERAL CONTRACTOR GRAB BAR GRADE GYPSUM BOARD		
HWD HT H.M.	HARD WOOD HEIGHT HOLLOW METAL		
INSUL INT.	INSULATION INTERIOR		
JAN JT	JANITOR JOINT		
KIT	KITCHEN		
LAB LAM LGTH LF L.S.D.	LABORATORY LAMINATE LENGTH LINEAL FOOT LIQUID SOAP DISPENSER		
MFR MATL MAX MECH MTL/MET MICR MIN MISC	MANUFACTURER MATERIAL MAXIMUM MECHANICAL METAL MICROWAVE MINIMUM MISCELLANEOUS		
NONCOM N.I.C. N.T.S. NO.	NON–COMBUSTIBLE NOT IN CONTRACT NOT TO SCALE NUMBER		

SYMBOLS:

NO WORK THIS AREA MEANS OF EGRESS

__XX

FINISH FLOOR

XX

XX

XX

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 $x \triangleleft x x. x \triangleright x$

NAME NAME XXX

EL: 100'-0"

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XX.X

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♥ EL: 100'-0"

XX

ROOF PITCH

EXIT DISCHARGE

ELEVATION TAG

WINDOW TAG

DOOR TAG

KEYNOTE TAG

TOILET ACCESSORIES AND\OR EQUIPMENT TAG KEY NOTE LEADER

INTERIOR ELEVATION SHEET NUMBER

ROOM NAME AND NUMBER

FLOOR TRANSITION TAG

SPOT ELEVATION

WALL TYPE NUMBER

ADDENDUM DELTA

DETAIL SECTION

WALL & BUILDING SECTIONS

detail bubble

REVISION CLOUD 3. A (ARC) (.1 / .2 ARC) 4. 0 (OBJECT) SELECT

DRAWING TITLE AND NUMBER



NORTH ARROW

TRUE NORTH ONLY TO BE USED WHEN

SPECIALTY EQUIP. SEE SHEET A—401 XX-XX



1. FIRE SUPPRESSION SYSTEMS: CONTRACTOR SHALL BE RESPONSIBLE TO CONTRACT WITH AND COORDINATE THE REQUIRED WORK FOR FIRE ALARM SYSTEMS.

PROJECT NOTES:

- 1. CONTRACTOR AND SUB-CONTRACTORS ARE RESPONSIBLE TO READ AND UNDERSTAND ALL OF THE DRAWINGS AND THE PROJECT SPECIFICATION BOOK.
- 2. GENERAL CONTRACTOR (G.C.) IS RESPONSIBLE TO COORDINATE WITH THE CU ANSCHUTZ PROJECT MANAGER'S FOR HOURS OF OPERATION, ALLOWABLE CONSTRUCTION TIMES AND CONSTRUCTION ACTIVITIES. THE G.C. SHALL ASSUME ALL RESPONSIBILITY FOR ALL SUB-CONTRACTORS. THE G.C. SHALL BE RESPONSIBLE TO OBTAIN SECURITY KEY CARDS FOR ACCESS TO THE BUILDING AND TO THE FLOOR.
- 3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DUMPSTER. THE G.C. SHALL COORDINATE WITH CU ANSCHUTZ PROJECT MANAGER FOR LOCATION AND ALLOWABLE SIZE.
- 4. ALL DELIVERIES MUST BE COORDINATED WITH CU ANSCHUTZ PROJECT MANAGER FOR TIME AND LOCATION OF DELIVERIES.

ADD ALTERNATE LIST:

- ^{1.} ADD ALTERNATE #1 UNIT HEATER, RE: MEP
- 2. ADD ALTERNATE #2 SPLIT SYSTEM FAN COIL UNIT, RE: MEP

CODE INFORMATION:

PROJECT DESCRIPTION:

THE REMODEL TO THE EXISTING KITCHEN AND ENCLOSED PORCH. WORK INCLUDES THE ADDITION OF A COOKING RANGE AND EXHAUST HOOD AND OTHER APPLIANCES, AIR CONDITIONING UNIT, NEW CASEWORK, INSULATING AND FULLY ENCLOSING PORCH, AND NEW KITCHEN SINK AND DISHWASHER.

 \sim

UILDING CONSTRUCTION:	TYPE V-B (N	NO CHANGE FROM EXISTING)
CCUPANCY GROUP:	I-1 (CONDITION 1) (M	NO CHANGE FROM EXISTING)
:ODE:	2018 IBC 2018 IEBC 2018 IMC 2018 IECC 2020 NEC 2018 IPC 2018 IFC 2017 ICC/ANSI A177.1	
CONSTRUCTION AREA:	KITCHEN & PORCH = 40	60 NET S.F.
OTAL FLOOR AREA:	BASEMENT FLOOR TOTAL FIRST FLOOR TOTAL AREA 2ND FLOOR TOTAL AREA TOTAL AREA	$\begin{array}{rcl} \text{AREA} &=& 3,146 \ \text{G.S.F.} \\ \text{A} &=& 3,390 \ \text{G.S.F.} \\ &=& \underline{3,146 \ \text{G.S.F.}} \\ &=& 9,682 \ \text{G.S.F.} \end{array}$
OCCUPANT LOAD:	NO CHANGE FROM EXIST	ING
PRINKLER SYSTEM:	FULLY	(AS PER IBC CH 9)
BUILDING HEIGHT (# OF STORIES	s): 2 stories	(NO CHANGE FROM EXISTING)
UILDING ADDRESS:	FT. LOGAN – BUILD 3844 & 3854 W P	ING 16 PRINCETON CIR

DENVER, COLORADO 80202



FIRST FLOOR OVERALL PLAN NTS

. PLAN REF:



GENERAL CONTRACTOR NOTES:

- 1. PERMITS: THE GENERAL PERMIT / BUILDING CARD TO BE ISSUED BY THE STATE OF COLORADO. MEP PERMITS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ARE ISSUED THROUGH THE STATE. GC IS RESPONSIBLE FOR THE PERMIT AND ALL FEES. ALL MEP INSPECTIONS ARE BY THE STATE.
- FIRE PERMIT AND INSPECTIONS ARE THROUGH DENVER FIRE. THE GC IS RESPONSIBLE FOR SUBMITTING ALL REQUIRED DRAWINGS FOR PERMIT AND PAYING FOR PERMIT FEES. ALL FIRE INSPECTIONS ARE BY DENVER FIRE.
- SITE EXAMINATION: 2. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT AND EXAMINE THE SITE AND BUILDING IN EVERY DETAIL AS IT PERTAINS TO THE PROJECT PRIOR TO SUBMITTING A BID PROPOSAL.
- 3. DISCREPANCIES: ANY DISCREPANCIES DISCOVERED BY THE GENERAL CONTRACTOR OR BY THE SUBCONTRACTORS, BETWEEN DIMENSIONS, OR CONFLICTS UNFORESEEN PREVIOUSLY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
- 4. BUILDING CODE COMPLIANCE: PERFORM ALL WORK TO COMPLY WITH APPLICABLE BUILDING CODES AND REGULATIONS. FOR BUILDING CONDITIONS THAT ARE NOT CONSTRUCTED TO MEET CURRANT BUILDING CODES, THE GENERAL CONTRACTOR IS TO PROVIDE ALTERNATE PRICING TO BRING ITEMS INTO CODE COMPLIANCE.
- 5. LONG LEAD ITEMS: THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THE PROJECT SCHEDULE AND DEADLINES, AND FOR ADVISING THE ARCHITECT FOR ALL LONG LEAD ITEMS. ORDER CONFIRMATION SHALL BE SUBMITTED WITH DELIVERY DATES. PROVIDE LEAD TIME ESTIMATES WITH ANY BID PROPOSALS. IT SHALL BE AT THE GENERAL CONTRACTORS EXPENSE IF ANY LONG LEAD ITEMS ARE DISCOVERED AFTER THE PROJECT BEGINS.
- 6. CLEAN UP: CLEANING OF CONTRACTOR'S EQUIPMENT AND TOOLS SHALL BE LIMITED TO AREAS DESIGNATED BY THE BUILDING MANAGER. TRASH SHALL BE REMOVED AND SWEEPING\VACUUMING SHALL BE PROVIDED ON A DAILY AND CONTINUING BASIS THROUGHOUT THE CONSTRUCTION PROCESS. FINAL CLEANING SHALL BE PROVIDED BY
- THE CONTRACTOR AND INCLUDE WINDOWS, SILLS, WINDOW COVERINGS (BLINDS), CABINETS, LIGHT FIXTURES, SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. 7. PROTECTION OF EXISTING ITEMS:
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING CONSTRUCTION ON AND OFF SITE, AND SHALL BE HELD RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY GENERAL CONTRACTOR OR ANY OF ITS SUBCONTRACTORS.
- 8. WORK PERFORMED UNDER SEPARATE CONTRACT: THE GENERAL CONTRACTOR IS TO VERIFY WITH THE BUILDING MANAGER, IF ANY WORK IS TO BE PERFORMED UNDER A SEPARATE CONTRACT.
- 9. FIRE WALL PENETRATIONS:
- ALL PENETRATIONS THROUGH FIRE RESISTIVE CONSTRUCTION SHALL BE CAULKED OR OTHERWISE SEALED WITH AN APPROVED FIRE SEALANT TO MAINTAIN THE REQUIRED FIRE RATING.





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	DESCRIPT	ION
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DRAWN BY:	KS	CHECKED BY: JM
	2134EI	INITIAL DATE: DEC 2

GENERAL NOTES, SYMBOLS, ABBREVIATIONS, & CODE INFO

THIS I

AGR



CEILING PLAN KEY NOTES:



FULL TILE UNDER MILLWORK AND APPLIANCES. 60" X 24" X 86" CHROME WIRE RACK, (4) ADJUSTABLE SHELVES. G.C. SUPPLIED, G.C. INSTALLED.

FLOOR FINISH MEETS NEW FLOOR FINISH. RE: FINISH SCHEDULE.

- TRUE REACH-IN 48", TWO DOOR FREEZER MODEL # T-49-FHC OR EQUAL. SUPPLIED, G.C. INSTALLED.
- TRUE REACH-IN 48", TWO DOOR FRIDGE MODEL # T-49-HC OR EQUAL. SUPPLIED, G.C. INSTALLED.
- ADD ALT. 2: CONDENSING UNIT ON 4" HIGH CONCRETE HOUSEKEEPING PAD, VERIFY EXACT SIZE WITH MANUFACTURER, RE: MECHANICAL & ELECTRICAL. CONCRETE 4000 PSI, WATER: CEMENT RATIO 0.45 MAX, AIR ENTRAINED 3%-5%, 6" X 6" WWF.
- EXISTING ELECTRICAL SERVICE AND METERS TO REMAIN. INFILL EXISTING RECESSED NICHE W/ METAL STUDS, ALIGN GYP. BD. WITH EXISTING PLASTER WALL FINISH. FINISH AND PAINT ENTIREWALK
- PROVIDE AND INSTALL 3 X 1/4" PLATE STEEL LINTEL AT OPENING HEAD (ALL BRICK WYTHE'S) FOR NEW MECHANICAL EQUIPMENT, BEAR 6" MIN. AT EACH SIDE OF OPENING, SEAL AND PAINT WHERE EXPOSED TO VIEW.
- [12] 36" WIDE (6) BURNER NATURAL GAS RANGE BOSCH MODEL# HGS8655UC OR EQUAL.
- INSTALL 2X WOOD STUD FRAMING AT BACK AND SIDE FULL HEIGHT. SHEATH WITH 23/32" SANDED PLYWOOD FROM BOTTOM OF FRAMING UP 48". PREP FOR PAINTING.
- (14) PROVIDE A 2-A FIRE EXTINGUISHER WITH WALL MOUNTING BRACKET MOUNTED AT 5'-0" TO THE TOP OF THE EXTINGUISHER.

FIRST FLOOR DEMO PLAN 🛞 🕀 TRUE PLAN NORTH NORTH

áthroơm

(E) 🔫 🛶 🌰

HALL B100

D16

MULTI-PURPOSE

B110

SCALE: 1/4" = 1'-0"



- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. ANY DISCREPANCIES IN DRAWINGS AND/OR EXISTING CONDITIONS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
- 2. THE ARCHITECT DISCLAIMS ANY RESPONSIBILITIES AND/OR KNOWLEDGE OF ASBESTOS. THE OWNER ACCEPTS ALL RESPONSIBILITY FOR REMOVAL AND DISPOSAL OF ASBESTOS IF DISCOVERED.
- NEW CONSTRUCTION MUST ALIGN WITH EXISTING WALLS AND\OR ELEMENTS. WALL AND CEILING TEXTURES MUST MATCH AND BE BLENDED TO MEET OWNER AND ARCHITECT APPROVAL.
- 4. ALL DIMENSIONS ARE FROM FACE OF FINISHED WALLS OR CENTERLINE OF GRID UNLESS NOTED OTHERWISE.
- 5. ALL WALLS ARE TO BE WALL TYPE $\langle 1 \rangle$ U.N.O. SEE SHEET A-601 FOR WALL TYPES.
- 6. SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL NOTES AND FIRE SAFETY REQUIREMENTS.
- 7. ALL ROUGH AND FINISH CONSTRUCTION SHALL BE IN COMPLIANCE WITH GOVERNING CODES AND REGULATIONS AS A MINIMUM STANDARD.
- 8. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PHYSICALLY DISCONNECT ALL DISABLED DEVICES AND PULL BACK TO PANEL 9. PLUMBING FIXTURE DIMENSIONS ARE FROM FINISHED FACE OF
- WALL TO CENTERLINE OF FIXTURE.

DEMO KEY NOTES:

- REMOVE EXISTING VCT & ASSOCIATED SUB-FLOOR ASSEMBLY COMPLETE DOWN TO ORIGINAL STRUCTURAL WD. PLANK FLOOR INCLUDING TRANSITION STRIP(S). REMOVE (E) RUBBER WALL BASE AND WOOD BASE BOARD THIS ENTIRE ROOM, PATCH WALL WHERE BASEBOARDS WERE REMOVED.
- D2 REMOVE EXISTING CASEWORK/SHELVING ASSEMBLY COMPLETE.
- D3 REMOVE EXISTING 3-COMPARTMENT SINK ASSEMBLY COMP RE: PLUMBING. EXISTING FLOOR SINK BELOW TO REMAIN. REMOVE EXISTING 3-COMPARTMENT SINK ASSEMBLY COMPLETE,
- D4 REMOVE WALL CABINET ASSEMBLY COMPLETE INCLUDING ELECTRICAL, RE: ELECTRICAL.
- REMOVE EXISTING DOOR AND HARDWARE AND DOOR STOP. REMOVE EXISTING HINGES. DOOR FRAME AND TRIM TO REMAIN, PATCH / PLUG WOOD FRAME WHERE HARDWARE WAS REMOVED. PREP FOR PAINT.
- D6 EXISTING BASE BOARD HEAT TO REMAIN.
- SAWCUT AND REMOVE EXISTING DOUBLE WYTHE BRICK WALL AS REQ'D FOR HOOD EXHAUST OUTLET/INLET, RE: MECHANICAL. SALVAGE BRICKS, RETURN TO OWNER. RELOCATE EXISTING FIRE ALARM DEVICES / CONDUIT ON EXTERIOR AS REQUIRED.
- D8 EXISTING PLASTER CEILING TO REMAIN.
- D9 REMOVE EXISTING SURFACE MOUNTED LIGHTING FIXTURES ASSEMBLY COMPLETE THIS ENTIRE ROOM. PATCH CEILING.
- D10 CORE DRILL EXISTING DBL. WYTHE BRICK WALL AS REQ'D FOR CONDENSATE PIPING.
- D11 CUT OPENING IN WOOD STUD WALL FOR NEW MECHANICAL, RE: MECHANICAL. DO NOT CUT STR. BEAM.
- [D12] REMOVE EXISTING WIDOW AC UNIT, SALVAGE TO OWNER. REMOVE EXISTING WINDOW SASHES, RETURN TO OWNER, TIE OFF COUNTER WEIGHT ROPE IF PRESENT SO IT CAN BE REINSTALLED. CUT TO FIT 23 / 32" SANDED PLYWOOD OVER SASH STOPS INSIDE AND OUTSIDE. IF NO WEIGHT ROPES INSTALL SANDED PLYWOOD ON INSIDE ONLY. CUT OPENING FOR NEW MECH. DUCT, RE: MECH. PREP FOR PAINTING.
- (D13) EXISTING CONCRETE FLOOR TO REMAIN, PREP FOR NEW PAINT PER MANUFACTURER REQUIREMENTS.
- [D14] REMOVE (E) WOOD TRIM AND SHELVES IN RECESSED "NICHE", PREP WALL TO BE INFILLED. SALVAGE TRIM PIECES TO REPAIR THE TRIM THAT WAS CUT ON OPPOSITE SIDE AFTER THE UPPER CABINETS ARE REMOVED.
- (D14) EXISTING ELECTRICAL SERVICE AND METERS TO REMAIN.
- [D15] REMOVE COMMERCIAL FRIDGE, SALVAGE TO OWNER.
- (D16) REMOVE EXISTING VCT & ASSOCIATED SUB-FLOOR ASSEMBLY COMPLETE DOWN TO ORIGINAL WOOD FLOOR, INCLUDING TRANSITION STRIP(S). REMOVE (E) QUARTER ROUND @ WALL BASE PERIMETER, WOOD WALL BASE BOARD TO REMAIN IN THIS ENTIRE ROOM.
- (D17) REMOVE COVER BOARD ON WALL AND PATCH WALL WITH GYP. BD. TEXTURE TO MATCH ADJACENT. IF VALVE/ J-BOX IN WALL THEN FRAME IN A METAL ACCESS PANEL.

LEGEND:

- _____ ===
- NEW WALL CONSTRUCTION DEMO ITEM

NO WORK IN THIS AREA

EXISTING CONSTRUCTION (EXTERIOR / INTERIOR)

EXISTING DOOR TO REMAIN

NEW DOOR





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DATE	DESCRIPTION
2-15-22	95% CONSTRUCTION DOCUMENTS
4-12-22	100% CD FOR CONSTRUCTION
6-17-22	CODE REVIEW COMMENTS
7-29-22	CODE REVIEW COMMENTS
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	DATE 2-15-22 4-12-22 6-17-22 7-29-22

:1

FINISH PLAN, & RCP





KITCHEN

B116

 (D^2)

- - -

(TYP. OF 2 SHELVES)









9 PORCH B114 - EAST ELEV.

1/4"=1'-0"















LINE OF (E) BRICK ROWLOCK BELOW (E) SIDING ON OSB ON WD. 2X4 FRAMING (E) WD. OPENING TRIM WD. TRIM AT OPENING AS REQ'D TO COVER (E) EDGE CONDITION - PAINT CONTINUOUS SEALANT BOTH SIDES OF FRAME HOLLOW METAL FRAME.

TYPE X GYP. BD. ON STORAGE SIDE - PAINT

1" OWENS CORNING NGX CONTINUOUS RIGID

SEE SCHEDULE FOR FINISH. DOOR PER SCHEDULE.

INSULATION

DO	DOOR & HARDWARE SCHEDULE									
NO.	ROOM	DOOR SIZE	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HARDWARE	DETAIL	DOOR NOTES
B114	STORAGE	3'-0"X7'-0" FIELD VERIFY	A	P4	1	P4	NONE	01	12/A-401	
B112	RESTROOM	3'-0"X7'-0" EXISTING	(E)	P3	(E)	P3	NONE	(E)	-	SAND AND PAINT DOOR
B116B	PANTRY	3'-0"X7'-0" EXISTING	(E)	P3	(E)	P3	NONE	(E)	-	SAND AND PAINT DOOR

DOOR NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING FINAL OPENING SIZES AND THE REQUIRED ROUGH OPENINGS BEFORE FRAMING OPENING
- INSTALL ALL DOORS AS PER SCHEDULE, NEW AND SALVAGED CONTRACTOR TO CONFIRM SCHEDULED DOOR HEIGHT AND
- FRAME HEAD HEIGHT TO FIT AND ALIGN WITH EXISTING OPENING PRIOR TO ORDERING DOORS OR FRAMES. REFER TO SPECIFICATION SECTION 087100 FOR HARDWARE SETS
- AND MORE INFORMATION. DOOR HARDWARE SCHEDULE

SET 01

- DOORS 114B 3 HINGES FBB179-NRP
- 1 CLOSER 4040XP
- 1 ENTRY LOCK SET FALCON T SERIES 1 THRESHOLD 566 ALUM. ZERO
- 1 SWEEP 39 BK ZERO
- 1 GASKETING 188S BK ZERO 1 GASKETING 475 BK ZERO
- 1 KICK PLATE

DOOR TYPES:

RE:SCH

DOOR TYPE A HOLLOW METAL INSULATED











FRAME TYPES:



FRAME TYPE 1: HOLLOW METAL



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GENERAL NOTES:

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD 9. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- 2. ALL SUBCONTRACTORS SHALL BE LICENSED, EXPERIENCED, AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER WITH ESTABLISHED CONSTRUCTION SEQUENCE, SHALL RECOGNIZE THE PRIORITY OF THE CONSTRUCTION DOCUMENTS AND SHALL INFORM THE PRIME CONTRACTOR OF POTENTIAL PROBLEMS WHEN THE CONSTRUCTION DOCUMENTS ARE UNCLEAR OR INCONSISTENT.
- 3. SUBCONTRACTORS SHALL BE RESPONSIBLE TO NOTIFY THE PRIME CONTRACTOR OF DISCREPANCIES OR CONFLICTS IN AND/OR PRIOR TO PERFORMING THE WORK.
- 4. EXAMINATION OF BIDDING DOCUMENTS.
- a. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY, AND NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITIES, INCONSISTENCIES, OR ERRORS THEREIN WHICH HE MAY DISCOVER. THE ARCHITECT WILL ISSUE ANY INTERPRETATION OR CORRECTION AS AN ADDENDUM. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITIES. INCONSISTENCIES, OR ERRORS ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE ON BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.
- PERIOD OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE CONSTRUCTION CONTRACT DRAWINGS AND SPECIFICATIONS.
- 5. INASMUCH AS DESIGN FOR REMODEL AND/OR REHABILITATION REQUIRES THAT CERTAIN ASSUMPTIONS 19. MAKE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT. BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE PROFESSIONAL CONSULTING SERVICES HEREIN ENCOMPASS ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. MAKE REASONABLE ALLOWANCES FOR UNSEEN CONDITIONS.
- 6. THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER FACILITY SHALL NOT BE HINDERED BY THIS WORK. ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED DUE TO THE DIFFICULTY OF WORKING OVER AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE ACCESSIBLE WHEN COMPILING BID.
- 7. BE RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT OR AFF IN OTHER AREAS, UNLESS NOTED OTHERWISE. DUCTWORK REMAINING TO BE CONNECTED TO NEW OR EXISTING SYSTEMS. PROVIDE DUCTWORK, PIPING, CONTROLS, DIFFUSERS, ETC., AS REQUIRED TO RESTORE CONTINUITY OF SYSTEM (S), OR TO MAKE NEW WORK MEET EXISTING CONDITIONS, WHETHER INDICATED OR NOT.
- 8. SUBCONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITY SERVICES AND COORDINATE AS REQUIRED BY THEIR RESPECTIVE AREA OF THE CONSTRUCTION, NOTIFYING THE PRIME CONTRACTOR OF VARIATIONS OR CONFLICTS.

- DOCUMENTS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE SUBCONTRACTOR WITH SUFFICIENT TIME TO ALLOW SELECTION, PURCHASE, AND DELIVERY TO MAINTAIN CONSTRUCTION SCHEDULE.
- 10. ALL DUCTWORK, DIFFUSERS, PIPING, FIXTURES, AND EQUIPMENT SHOWN IN LIGHT LINE WEIGHT IS EXISTING, NEW INDICATED BY HEAVIER LINE WEIGHT, EXCEPT WHERE NOTED. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED.
- 11. OFFSET PIPING, DUCTWORK, ETC. AS NECESSARY TO ACCOMMODATE STRUCTURE, BEAMS, AND COLUMNS, AND EXISTING EQUIPMENT.
- THE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING 12. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT, OWNER, AND ENGINEER.
 - 13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER WORK IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES AND LIFE SAFETY FEATURES AS REQUIRED BY LOCAL, STATE, OR NATIONAL AUTHORITIES. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT IF MODIFICATION OF HIS/HER WORK IS REQUIRED FOR COMPLIANCE.
 - 14. NATIONAL ELECTRICAL CODE, MOST CURRENT NFPA, ALL LOCAL ORDINANCES AND AMENDMENTS AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS. IF A CONFLICT BETWEEN THOSE PUBLICATIONS EXISTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
 - 15. SUBMIT RECORD DOCUMENTS TO ARCHITECT WITHIN 90 DAYS OF COMPLETION. DOCUMENTS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS. ETC.
 - 16. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION PRIOR TO ACCEPTANCE BY THE OWNER.
- b. FAILURE TO REQUEST CLARIFICATION DURING THE BID 17. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
 - 18. COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.
 - PIPE INDIRECT WASTE FROM EQUIPMENT TO FLOOR DRAINS AND FLOOR SINKS. REFER TO KITCHEN PLANS FOR EXACT LOCATION OF ROUGH-INS AND INDIRECT WASTE PIPING REQUIREMENTS. PROVIDE STAINLESS STEEL, BRAIDED, FLEXIBLE CONNECTOR FOR WATER SERVICE TO KITCHEN EQUIPMENT EXCEPT WHERE QUICK DISCONNECTS ARE PROVIDED BY EQUIPMENT VENDORS.
 - 20. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ALL CEILING PENETRATIONS AND AIR DEVICE LOCATIONS.
- DURING CONSTRUCTION. CONTINUED OPERATION OF THE 21. COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, ELECTRICAL, LANDSCAPING, AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION.
- AROUND EMPLOYEES, FURNITURE, EQUIPMENT, ETC.; AND 22. CAREFULLY VERIFY ELECTRICAL SERVICE VOLTAGE AND PHASE AVAILABLE.
 - 23. MOUNT ALL STATS AT 48" AFF IN "ACCESSIBLE" AREAS, 4'6" COORDINATE LOCATION WITH WALL FINISH, AND TO AVOID CASEWORK, FURNITURE, DOOR SWINGS, HEAT SOURCES, AND EXTERIOR WALLS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING THERMOSTAT INSTALLATION.

FIXTURE CONNECTION SCHEDULE						
TAG	DESCRIPTION	HW	CW	WASTE	VENT	
CS	CLOTHES WASHER OUTLET BOX	1/2"	1/2"	2"	1-1/2"	
DF	DRINKING FOUNTAIN / WATER COOLER	-	1/2"	1-1/2"	1-1/2"	
DM	DISH MACHINE ROUGH-IN	3/4"	3/4"	2"	1-1/2"	
DW	DISHWASHER ROUGH-IN	1/2"	-	2"	1-1/2"	
FD	FLOOR DRAIN	-	-	2"	1-1/2"	
FRIG	REFRIG/ICE MAKER BOX	-	1/2"	-	-	
FS	FLOOR SINK	-	-	2"	1-1/2"	
HB	HOSE BIB	-	3/4"	-	-	
HS	HAND SINK	1/2"	1/2"	1-1/2"	1-1/2"	
KS	KITCHEN SINK W/ OR W/O DISPOSAL	1/2"	1/2"	2"	1-1/2"	
LAV	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	
NOTE	<u>S:</u>					

- SIZES SHOWN ARE MINIMUM PIPE SIZES TO A SINGLE FIXTURE. LARGER SIZES MAY BE INDICATED ON PLANS WHERE REQUIRED.
- 2. MINIMUM DOMESTIC PIPE SIZE TO (2) OR MORE FIXTURES IS 3/4".
- 3. RE: MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INDIRECT WASTE SIZES.
- WASTE AND VENT SIZES SHOWN ABOVE APPLY TO INDIVIDUAL VENTING ONLY. 4. WHERE ALLOWED, INDIVIDUAL VENT CONNECTIONS MAY BE OMITTED OR SIZES MAY VARY WHEN CIRCUIT VENTS, COMMON VENTS, WASTE STACK VENTS, WET VENTS, OR COMBINATION DRAIN AND VENT SYSTEMS ARE USED. PRIOR APPROVAL FROM THE ENGINEER IS REQUIRED TO USE THESE ALTERNATIVE VENTING METHODS.
- 5. PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS AND FLOOR SINKS NOT LOCATED IN FOOD SERVICE AREAS.
- 6. MINIMUM SIZE FOR WASTE AND VENT PIPING BENEATH SLAB IS 2".
- 7. ALL FIXTURES LISTED ARE NOT NECESSARILY USED ON THIS PROJECT.
- REFER TO APPLIANCE SCHEDULES (BY OTHERS) FOR ADDITIONAL PLUMBING 8. FIXTURE CONNECTIONS SUCH AS INSTA-HOTS, COFFEE MAKERS, AND GARBAGE DISPOSALS.
- PROVIDE ICE MAKER BOX ROUGH IN W/ 1/2"CW CONNECTION FOR ALL 9. REFRIGERATOR LOCATIONS.

	14	
#		
M 000		N

ISSUE LOG KEY: ' NOT PART OF SET

MECHANICAL	SYSTEMS	LEGEND

AIR SEPARATOR

BASE BOARD

BUFFER TANK

BOILER (HOT WATER)

AS

BB

ΒT

EQUIPMENT ABBREVIATIONS

e	90° ELBOW DN
<u> </u>	90° ELBOW UP
	TEE DOWN
<u> </u>	TEE UP
—	BUTTERFLY VALVE
— \$\$	SHUT OFF (BALL, GATE, BUTTERFLY)
bed _	GLOBE VALVE
— í —	CHECK VALVE
	FLOW CONTROL VALVE
—a—	BALL VALVE
—ki—	PLUG OR BALANCING VALVE
	FLOW BALANCING VALVE
ī	PLUG VALVE IN RISER
<u>₹</u>	GATE OR GLOBE VALVE IN RISER
X	DRAIN VALVE W/ HOSE END
<u> </u>	TEMPERATURE CONTROL VALVE (2-WAY)
<u> </u>	TEMPERATURE CONTROL VALVE (3-WAY)
&	PRESSURE REDUCING VALVE
_ &	SOLENOID VALVE
Ţ	VENTURI/FLOW INDICATOR
	PUMP & EQUIPMENT CONNECTOR
	PIPE UNION
- X Z X X X X X X X X X X X X X	DOUBLE CHECK BACKFLOW PREVENTER
~~~	PIPE ANCHOR
	PIPE EXPANSION JOINT
	FLEXIBLE CONNECTOR
¥-	SAFETY RELIEF VALVE
\forall	AIR VENT
<u> </u>	PRESSURE - TEMP. TAP
Ŷ	PRESSURE GAUGE W/ PIG TAIL & COCK
ļ	THERMOMETER
(VACUUM BREAKER
5	STRAINER W/ BLOW-OFF VALVE
	SHOCK ABSORBER
FS≈	FLOW SWITCH
O	HORIZONTAL CLEANOUT
ļi	VERTICAL CLEANOUT
Θ	FLOOR DRAIN
	FLOOR SINK
	ROOF DRAIN
<u>()</u>	DECK/ROOF DRAIN ABOVE
TC	TEMPERATURE CONTROLLER OR SENSOR
₽₽₽	HOSE BIBB
₩⋕	WALL HYDRANT

PROJECT ALTITUDE

5450' ABOVE SEA LEVEL

PIPING SYMBOLS

CP OR P	CIRC PUMP
CUH	CABINET UNIT HEATER
DC	DUCT COIL
DEF	DISHWASHER EXHAUST FAN
EF	EXHAUST FAN
ET	EXPANSION TANK
HC	HEATING COIL
HP	HEAT PUMP
HX	HEAT EXCHANGER
KFF	
 ΜΔΙΙ	
SF	
ST	STORAGE TANK
TMV	THERMOSTATIC MIXING VALVE
UH	UNIT HEATER
WH	WATER HEATER
E	
F	IFING DESIGNATIONS
HYDRONI	C PIPING
—HWS—	HEATING WATER SUPPLY
-HWR-	HEATING WATER RETURN
PLUMBIN	G PIPING
G	NATURAL GAS
—MG—	MEDIUM PRESSURE GAS
— D —	DRAIN PIPE
	REFRIGERANT SUCTION
-HW	
—HWC—	DHW RECIRCULATION
— F —	
<u> </u>	WASTE PIPE
<u> </u>	PLUMBING VENT PIPE
— GW —	GREASE WASTE PIPE
GV	GREASE VENT
	PLAN STIVIBOLS
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	HUMIDISTAT
(S)	REMOTE TEMPERATURE SENSOR
0	THERMOSTAT
SP	DUCT STATIC PRESSURE SENSOR
 	ROOM PRESSURE SENSOR
EPO	EMERGENCY POWER OFF SWITCH
(P)	PLUMBING/HVAC RISER
\bigcirc	DIAGRAM CONTINUATION REFERENCE
- Č	SECTION CUT LETTER/SHEET SHOWN ON
	POINT OF DISCONNECTION
•	POINT OF NEW CONNECTION
\square	ACCESS PANEL
	NOTES
1. ALL SYM ON LEGE THIS PRO	BOLS, ABBREVIATIONS, AND DESIGNATIONS END SHEET ARE NOT NECESSARILY USED ON OJECT.
2. THIS DR/ PART, B) NOTATIC DRAWIN LEGEND SYMBOL REQUIRE	AWING SET CONSISTS OF DATA GENERATED, II (OTHER PARTIES. NOT ALL SYMBOLOGIES AND N CONVENTIONS OCCURRING IN THIS G SET ARE NECESSARILY DEFINED ON THESE S. CONSULT THE ENGINEER IN THE EVENT OGY OR NOTATION INTERPRETATION IS ED.
	REFERENCE SAMPLE

RE: B/M400 FFI

FFI = FOR FURTHER INFORMATION

FCT = FOR CONTINUATION

SHEET NUMBER

REFER TO:

------ DRAWING NUMBER OR DIAGRAM LETTER

_	PLAN ABBREVIATIONS		DUCTWORK LEGEND	
AAV	AIR ADMITTANCE VALVE	SINGLE LINE	DESCRIPTION	DOUBLE LINE
ABV	ABOVE		90° ELBOW DOWN (ROUND DUCT ONLY)	
AFF				
AFG			ROUND 90° ELBOW UP (ROUND DUCT ONLY)	
BCS	BUILDING CONTROL SYSTEM			
BDD	BACK DRAFT DAMPER		OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE)	
BFG	BELOW FINISHED GRADE		D = DROP R = RISE	
BLDG	BUILDING		ROUND RADIUS ELBOW	"`
C	COMMON (OR CLOSED)			
CA	COMBUSTION AIR		90° STRAIGHT TEE	
CC				k
	BY CONTRACTOR	`ل`	90° CONICAL TEE	H
	CUBIC FEET PER MINUTE (AIR FLOW RATE)		45° BRANCH	
CLG	CEILING (OR COOLING)	٣		
СО	CLEANOUT		45° CONICAL TEE	
		<u>م</u>		
	CONDENSATE CONNECT (OR CONNECTION)	<mark>} → →</mark>	SIZE OR SHAPE TRANSITION	
CONTR'R	CONTRACTOR			
COTG	CLEANOUT TO GRADE		ROUND FLEXIBLE DUCT	
CW				
DHW	DOMESTIC HOT WATER		90° ELBOW DN (NEGATIVE PRESSURE)	
DN	DOWN	<u> </u>		<u>ا الاالم</u>
DW			US LEDUN DIN (FUOITIVE FREDOUKE)	
DWR (F)	DOMESTIC HOT WATER RECIRC	→	90° ELBOW UP (NEGATIVE PRESSURE)	
EA	EXHAUST AIR			
EAT	ENTERING AIR TEMPERATURE	≥ ∎	90° ELBOW UP (POSITIVE PRESSURE)	-
EC				
	ENTERING WATER TEMPERATURE	<u>`</u>	90° RADIUS ELBOW	<u>+</u>
(F)	FUTURE			
FA	FREE AREA	_	90° RADIUS ELBOW W/TURNING VANES	└ <u>─</u> ───────────────────────────────────
FBO		<u>~</u>		Ţ Ţ
FCU	FLOOR GLEANOUT FOR CONTINUATION	\		
FD	FIRE DAMPER	۲→	ROUND DUCT SPLIT	
FFI		×		<u> </u>
FSD	COMBINATION FIRE/SMOKE DAMPER		SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
GHX	GROUND HEAT EXCHANGER	$\left \begin{array}{c} \cdot & -\cdot \\ & -\cdot \\ & \gamma \end{array} \right $		
GPM	GALLONS PER MINUTE (WATER FLOW RATE)	ہلے	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPLITTER DAMPER	
	HORSEPOWER		POSITIVE PRESSURE RISER.	
HWC	HOT WATER RECIRC		TYPICALLY SUPPLY	
ILO	IN LIEU OF		NEGATIVE PRESSURE RISER, TYPICALLY	
KW	KILOWATTS		KETUKN, EXHAUST OR OUTSIDE AIR	
			MANUAL VOLUME DAMPER, SINGLE BLADE DAMPER (SBD) FOR ROUND OR <10" TALL,	
LWT	LEAVING WATER TEMPERATURE	<u>ب</u>	OPPOSED BLADE DAMPER (OBD) >10" TALL	│ ⊥₄⊥ │ ┬ᠰन
MC	MECHANICAL CONTRACTOR	BDD	BACKDRAFT DAMPER	
MFR		24x36		
MOD (N)	NEW		DUGT SIZE: FIRST NUMBER IS PLAN WIDTH, SECOND NUMBER IS DEPTH.	4 24x36 4
NC	NORMALLY CLOSED			
NEC	NATIONAL ELECTRIC CODE	ļ		
			VICE DESIGNATION KEY	
	OUTSIDE AIR			
OBD	OPPOSED BLADE VOLUME DAMPER			
OC	ON CENTER	/	RE: GRD SCHEDULE.	
OSA		/ /	-# = AIR QUANTITY (CFM)	
RE:	REFER TO:		CA = COMBUSTION AIR EXH = EXHAUST	
REQ'D	REQUIRED	A 150	RA = RETURN $XFR = TPANSFEP$	
REQ'MTS	REQUIREMENTS			
SA SE			SIZE (INCHES) OR MINIMUM FREE AREA REQUIRED IN	
SP	STATIC PRESSURE		SQUARE FEET.	
SS	STAINLESS STEEL	12x6		
TA	THROW-AWAY (TRANSFER AIR)			
	WITH			
W/O	WITHOUT	<u>NOTE</u> :		
WCO	WALL CLEANOUT	FOR STANDARD NECK SIZE. REF	MODULE SIZE REGISTERS, SIZE GIVEN IS FER TO GRD SCHEDULE FOR MODULE SIZE.	
WRT W/C	WITH REGARD TO WATER COOLED			
VTR	VENT THRU ROOF			
XFR	TRANSFER			
Ø	DIAMETER	J		





UNIVERSITY OF COLORADO DENVER ANSCHUTZ

ARTS FT. LOGAN **RENO BUILDING 16** 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819



ARCHITECTURAL WORKSHOP . DENVER COLORADO

DATE	DES	CRIPTION								
02-15-22	95%	95% CONSTRUCTION DOCUMENTS								
04-12-22	-12-22 100% CD FOR CONSTRUCTION									
DRAWN BY:	JAC	CHECKED BY: VJF								
PROJECT:	2134FL	INITIAL DATE: DEC 21								

MECHANICAL COVER SHEET

M - 000

BGPROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLDG#16 KITCHEN RENOVATION\CAD\BGCE CAD\9418.18_MD-101.DW(



DEMOLITION NOTES:

- 1. ADDITIONAL STORM, HYDRONIC, DOMESTIC, WASTE AND VENT PIPING MAY BE ROUTED IN SPACE THAT IS NOT REPRESENTED, BUT IS TO REMAIN. OTHER SYSTEMS MAY EXIST WITHIN THE SPACE THAT ARE NOT REPRESENTED ON THESE DRAWINGS; MODIFICATIONS TO THESE SYSTEMS ARE NOT ANTICIPATED.
- FIELD VERIFY ALL COMPONENTS PRIOR TO DEMOLITION. THE INFORMATION ON THIS SHEET WAS OBTAINED, IN PART, FROM HISTORIC DESIGN DRAWINGS. ONLY PORTIONS OF THE SYSTEMS WERE ACCESSIBLE FOR VISUAL CONFIRMATION DURING DESIGN PROCESS.
- 3. (E) WASTE SYSTEM SERVING SPACE IS LOCATED IN THE CEILING OF THE SPACE BELOW.
- 4. REMOVE ALL MECHANICAL ITEMS INDICATED.
- 5. TEMPORARILY SEAL OR CAP PIPING TO BE RE-USED FOR LATER CONNECTION.
- NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OF INFORMATION REPRESENTED IN THE DOCUMENTS VERSUS WHAT IS FOUND IN THE FIELD.
- 7. COORDINATE PATCHING AND REPAIRS OF WALLS, CEILINGS AND FLOORS WITH ARCHITECT.
- 8. PATCH STRUCTURAL OPENINGS IN FLOORS, WALLS AND ROOFS THAT WERE PREVIOUSLY OCCUPIED BY SYSTEMS AND EQUIPMENT DEMOLISHED UNDER THIS CONTRACT IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS.

DEMO FLAG NOTES:

- HWS/HWR PIPING TO BE DEMOLISHED AND RE-INSTALLED IN CLOSET TO ALLOW SPACE FOR NEW KITCHEN EXHAUST DUCT AND ADDITIONAL STORAGE.
- 2. RELOCATE EXISTING SPRINKLER HEAD BELOW NEW CEILING.



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02-15-22	95% CONSTRUCTION DOCUMENTS
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MECHANICAL DEMOLITION PLAN

CHECKED BY: VJF

INITIAL DATE: DEC 21

DRAWN BY: JAC

PROJECT: 2134FL

_____ MARK CFM E.A.T. DB (°F) FC-1 600 75 ALTERNATE MANUFACTURERS * CARRIER, TRANE, DAI A: INDOOR UNIT POWER F _ _ _ _ MARK SERVICE SF-1 KEH MUA KITCHEN

A:

B:

ADD ALT 2

						MATC	H SPL	IT SYST	۲EM ۶	3CHE	DULE						
	INDOOR FA	N COIL UN	1IT							OUTDO	OR COND	ENSING UN	TIV			<u> </u>	
	DITIONS									ELEC	CTRICAL						
L.A DB (.T. SENSIBLE (°F) MBH	FILTER	WEIGHT (LBS)	MANUFACTURER* & MODEL #	MARK	CAPACITY (TONS)	TEMP. DB (°F)	CONTROL DB (°F)	MCA	VOLT	PHASE	MOCP	WEIGHT (LBS.)	SEER	MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
52	2 18	WASHABLE	≣ 50	HITACHI RAS-SH18RHLAE	CU-1	1.5	95	0	18	208	1	30	125	17	HITACHI RAC-SH18WHLAE	WIND BAFFLE, THERMOSTAT	A
KIN, LG,N	MITSUBISHI																
PROVIDE	D BY OUTDOOR UN	<u>/IT.</u>															
							F	-AN SC	HEDI	JLE							
			FAN ESP				SOUND POWER (dB re. 10-12 WATT)						MOTOR		OPER.		
TVDE											P		· · · · · · · · · · · · · · · · · · ·		WEIGHT		

	FAN SCHEDULE																								
						FAN							-ID					MO	TOR						
							E	SP			SOUND	POWER (aB re. 10-	12 WATT;)							OPER.			
MARK	SERVICE	TYPE	CFM	DRIVE	RPM	SONES	@ S.L. (II WC)	N @ ALT (IN WC)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	BHP	MHP (WATT)	VOLT	PHASE	VFD	WEIGHT (LBS)	& MODEL #	ACCESSORIES	REMARKS
SF-1	KEH MUA	INLINE	800	BELT	1395	9	1	0.8	73	70	64	63	63	64	59	52	0.24	1/3	120	1	NO	100	COOK 150SQN-HP	-	В
KEF-1	KITCHEN EXHAUST HOOD	WALL	900	DIRECT	1495	15.8	1.1	0.85	-	-	-	-	-	-	-	-	0.3	1/2	120	1	NO	100	CAPTIVEAIRE DU50HFA	-	A,B
ALTERN	LTERNATE MANUFACTURERS:																								

COOK, GREENHECK, TWIN CITY, PENN, BROAN, PANASONIC

PROVIDE DIRECT DRIVE FANS WITH FAN SPEED CONTROL. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.

	DUCT HEATING COIL SCHEDULE (HYDRONIC)															
								F	IEATING C	OIL						
			COIL		AIR	CONDITIC	NS	WATE	R CONDIT	IONS	COIL					
MARK	MARK SERVICE	TYPE	DIMENSION (IN)	CFM	E.A.T. DB (°F)	L.A.T. DB (°F)	SENS. MBH	E.W.T. (°F)	L.W.T. (°F)	GPM	FLUID TYPE	MAX. WTR P.D. (FT)	MAX. AIR P.D. (IN.)	- MANUFACTURER^ & MODEL #	ACCESSORIES	REMARKS
DHC-1	KITCHEN MUA	INLINE	18x14	800	0	50	36	180	140	2	WATER	10	0.5	MODINE 3WSS1406A	THERMOSTAT	A
ALTERNA	ALTERNATE MANUFACTURERS:															
*	* PRICE, GREENHECK, NAILOR, TITUS, ENVIROTEC															

A: VERIFY EWT AND LWT FOR EXISTING SYSTEM PRIOR TO SELECTION DUCT HEATING COIL.

_ _ _ _

			-												-	
					U	NIT A	ND C	CABIN	ET H	EATER	SCHE	DUL	E (HY	DRONIC)		
							HEATI	NG COIL			ELECT	RICAL				
							TER CON	DITIONS								
M.	MARK SERVIO	SERVICE	TYPE	CFM	SENSIBLE MBH	E.W.T. (°F)	L.W.T. (°F)	FLUID	GPM	MAX. WTR. P.D. (FT.)	HP/ (WATTS)	VOLT	PHASE	& MODEL #	ACCESSORIES	REMARKS
ι	JH-1	STORAGE	SUSPENDED	370	16.2	180	140	WATER	1.7	5	1/25	120	1	MODINE HSB 24	-	A,B
ALT	ALTERNATE MANUFACTURERS:															
	*	BEACON M	ORRIS, TRANE, S	TERLING,	MODINE, SIGM	A, VULCAN										
	A: PROVIDE WITH UNIT MOUNTED THERMOSTAT.															
	B:	VERIFY EWT AND LWT FOR EXISTING SYSTEM PRIOR TO SELECTION DUCT HEATING COIL.														

B:

PLUMBING FI MANUFACTURER* F & MODEL # A.D.A. FINISH SYMBOL TYPE P1 KITCHEN SINK STAINLESS ELKAY LUSTERTONE STEEL ELUHAD281650 YES MANUFACTURERS: FIXTURE: AMERICAN STANDARD, UNIVERSAL RUNDLE, FIAT STERN WILLIAMS FAUCET: SPEAKMAN, DELTA, AMERICAN STANDARD, CHICAGO DRAIN: SIOUX CHIEF, ZURN, JOSAM, WADE, JR SMITH GENERAL NOTES: A:

	GRILLE, REGISTER, DIFFUSER & LOUVER SCHEDULE									
MARK	SERVICE	PATTERN	FINISH	FACE SIZE	FRAME/ MOUNTING TYPE	MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS		
A	SUPPLY	SINGLE DEFL.	WHITE	RE: PLANS	DUCT MOUNTED	PRICE 20	OPPOSED BLADE DAMPER	A,B		
B	EXHAUST	0° DEFL.	WHITE	RE: PLANS	DUCT MOUNTED	PRICE 500	OPPOSED BLADE DAMPER	A,B		
©	INTAKE LOUVER	FIXED	RE: ARCH	RE: PLANS	WALL MOUNTED	GREENHECK ESD-435	INSECT SCREEN	C,D		
ALTERNAT	TE MANUFACTUF	RERS:								
*	* TITUS, PRICE, KRUEGER, METALAIRE, RUSKIN, GREENHECK									
A:	A: CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING/WALL CONSTRUCTION UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLAN FOR MORE INFORMATION.									
B:	PROVIDE REMOTE ACCESS BALANCE DAMPER WHEN LOCATED OVER HARD CEILING.									
C:	EXTERIOR LOUVERS SHALL BE POWDER COATED TO MATCH ADJACENT WALL COLOR (FINAL SELECTION BY ARCHITECT).									
D:	LOUVER SHALL HAVE MIN. 50% FREE AREA AND MAX. 0.1" WC PRESSURE DROP AT SCHEDULE CFM.									

_ _ _ .

IXTURE SCHEDULE									
AUCET TRIM MFR.* & MODEL #	GPM/GPF	ACCESSORIES	REMARKS						
KOHLER K-7506	1.5	STRAINER	-						
KOHLER K-7506	1.5	STRAINER	-						



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DATE	DESCF	RIPTION											
02-15-22	02-15-22 95% CONSTRUCTION DOCUMENTS												
04-12-22	100% C	D FOR CONSTRUCTION											
DRAWN BY:	JAC	CHECKED BY: VJF											
PROJECT:	2134FL	INITIAL DATE: DEC 21											

MECHANICAL SCHEDULES

BGPROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLDG#16 KITCHEN RENOVATION\CAD\BGCE CAD\9418.18_M-101.DWC



MECHANICAL NOTES:

- 1. RE: M200 SERIES FOR MECHANICAL DIAGRAMS.
- 2. MAINTAIN MIN. 3 FT BETWEEN ENVIRONMENTAL EXH TERMINATIONS AND OPENINGS INTO BUILDING.
- 3. ALL BRANCH HEATING WATER PIPING TO UNIT HEATERS AND DUCT HEATING COILS SHALL BE 3/4" U.N.O.
- 4. REFER TO THE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.
- EXPOSED SOIL OR WASTE PIPING SHALL NOT BE INSTALLED ABOVE ANY WORKING, STORAGE, OR EATING SURFACES IN FOOD SERVICE ESTABLISHMENTS.
- CONDENSATE LINES MUST STAND OFF OF THE WALL NO LESS THAN ONE HALF OF AN INCH TO FACILITATE CLEANING OR BE SEALED TO THE WALL.
- 7. ALL DUCTWORK SHALL BE PAINTLOCK. COORDINATE FINISH WITH ARCHITECT.

FLAG NOTES:

1. PROVIDE 3/4" NATURAL GAS STUB FOR CONNECTION TO NEW GAS RANGE. INSTALL ALL PIPING AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS. CONNECT GAS PIPING TO EXISTING PIPING LOCATED IN BASEMENT. 20' OF PIPING WILL BE REQUIRED.

- CONNECT NEW SINK TO EXISTING CW, HW, SAN AND V PIPING. PROVIDE GREASE INTERCEPTOR EQUAL TO ZURN GT2700-4. LOCATE IN ADJACENT BASE CABINET.
- 3. TERMINATE CONDENSATE PIPING WITH A DOWNTURNED ELBOW 18" ABOVE GRADE.
- 4. CONNECT DUCTWORK TO <u>KEH-1</u> IN ACCORDANCE WITH HOOD MANUFACTURERS GUIDELINES. SLOPE DUCTWORK AND INCLUDE CLEANOUTS PER IMC.
- INSTALL INTAKE LOUVER TO ALIGN WITH DUCT COMING IN THROUGH EXISTING WINDOW OPENING ON BUILDING.
- INSTALL HOOD WITH APPROPRIATE CLEARANCE AND ACCESS FOR THE ELECTRICAL PANEL, ANSUL SYSTEM AND CONTROLS.



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ARTS FT. LOGAN RENO BUILDING 16 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819





ARCHITECTURAL WORKSHOP . DENVER COLORADO

DATE	DESCRIPTION
02-15-22	95% CONSTRUCTION DOCUMENTS
04-12-22	100% CD FOR CONSTRUCTION



MECHANICAL AND PLUMBING SHEET

CHECKED BY: VJF INITIAL DATE: DEC 21

DRAWN BY: JAC

PROJECT: 2134FL

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ARCHITECTURAL WORKSHOP . DENVER COLORADO

DATE	DESCRIPTION
2-15-22	95% CONSTRUCTION DOCUMENTS
4-12-22	100% CD FOR CONSTRUCTION
6-17-22	CODE REVIEW COMMENTS

DRAWN BY:	JAC	CHECKED BY: VJF
PROJECT:	2134FL	INITIAL DATE: DEC 21

MECHANICAL DIAGRAMS

CONNECTED TO ROC THROUGH ANOTHER	DF JOIST HANGING	ONE ABOVE HANGING AN	AND ONE BELOW	<u>H001</u>	<u>INI</u>	<u>FORM</u>	ATION	<u>V — JOB#5</u>	<u>3120</u>)25	-		1		· ·
ANGLE				HOOD	TAG	M	ODEL	MANUFACTURE	R LEI	NGTH	MAX COOKING	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH OF
							5424			י ח יי	TEMP 600			00F	
					 יזאז (<u>ו</u> זים חק	D-2 ג <i>מדר</i> אי		4	Η U [*]	DEG			225	900
				HOOD			AIIUN	V	F I I	FILTER(S	S)				
*ROD AND NUTS TO HANGING ANGLE IS HANGING	BE SUPPLIED BY PRE-PUNCHED AT	INSTALLING CONTRA	ACTOR	NO	IAG		Т	YPE	QTY	HEIGHT	LENGTH	EFFICIEN	ICY @ 7 MICRO	NS QTY	
HOOD STYLE			700	1		CA	PTRATE	SOLO FILTER	2	20"	20"	85% SE	EE FILTER SPE	C 2	RE
/ MODEL	ofm/ft.	cfm/ft.	cfm/ft.	<u> </u>		TION	S		1		1			I	I
CANUPY ND2	150	200	250	NO NO	TAG	LEFT	END ST	ANDOFF (FINISH	ED) 1"	WIDE	54" LONG		TED.		
WITH END PANELS (15% reduction)	127.5	170	212.5			RIGH			23" TO	P WIDTI	H, 0" BOT		H, 23" HIGH	430 SS.	
SLOPED SND-2	228	294	-	1		INSU		OR TOP OF HOO	D.	TH	, u duit		, 20 ПІС Н 4		
SLAND ND-2WI	269	300	350			INSUL RISEF	LATION F R SENSO	OR BACK OF HO	JD. .EN.						
NDI	346	422	475												
ETL HOO			AIL (IOND)	<u>FIRI</u>	<u>e sy</u>	<u>sten</u>	I INF	<u>ORMATION</u>	— J	<u>0B#5</u>	<u>31202</u>	5			
EXHAUST C	rm≕lengih of HO M=Exhaust CFM X	CFM/LIN.FT.	QUIRED	FIRE SYST	EM T	AG	T	YPE			SIZE		FLOV POINT	s	SYS
DUCT IF	NGTH=	FPM(*) TOTAL DUCT AREA		1			TAN	NK FS			4.0		8		FIRE CAB
APTIVE-AIRE VENTILA	ATOR DUCT SIZES ARE C 800 FPM AND A SUPPL	DUCT DEPTH CALCULATED USING AN LY VELOCITY OF 1000	EXHAUST) FPM.	GAS FIF	VAL RE	<i>VE(S</i>)		0.7-						
				SYS N	TEM O	TAG		TYPE	SIZE		SUF	PLIED BY			
			BUILT	1	1		SC EL	ECTRICAL	0.750		CAPTIVE	AIRE SYST	TEMS		
\$3054804-001 \$3054804-002 Listed under ETL	STANDARD 710	Intertek 804-001/002	WITH NFPA No. 96												
	File number 3054	804-001/002													
	NRE HOODS HAV	- <u>VE OPTIONAL C</u>													
<u>REDUCTIO</u>	ON SYSTEMS AV	ALABLE AS FO	LLOWS: CTION SYSTEM												
NON-COMBUSTIBLE	<u>CLE</u> NON	NE REQUIRED	UNIT SISIEM												
	LE 3"	UNINSULATED STAN													
		COWROS	DIDLES												
1. ALL ELECTRIC	CAL "FIELD" CONNE CTIONS BY ELECTRIC	CTIONS AND RELAT	ED												
2. ALL PLUMBIN INTERCONNEC 3. HANGING BR/	IG "FIELD" CONNEC CTIONS BY PLUMBIN ACKETS LOCATED A	TIONS AND RELATE IG CONTRACTORS. ND WELDED AS SH	D IOWN ON												
PLANS. ALL INSTALLING C 4. ALL CONNEC	OTHER HANGER M CONTRACTORS. TIONS FROM CAPTIN	ATERIALS PROVIDED	D BY												
MECHANICAL 5. COOKING EQ 6. EXHAUST FAI	Contractors's PL UIPMENT TO SHUTO NS TO TURN ON IN	lans. DFF IN Event of F I event of fire.	FIRE.												
7. ALL LIGHTS I ARE FACTOR HOODS AND	FIXTURE SHOWN INS Y PREWIRED. INTEL TO SWITCHES BY E	STALLED BY CAPTIN RCONNECTIONS BET ELECTRICAL CONTRA	/E-AIRE IWEEN ACTORS.												
8. LAMPS FOR 9. SEISMIC RES INSTALLING C	LIGHT FIXTURES BY TAINTS ARE RESPON CONTRACTOR.	' INSTALLING CONTI NSIBILITY OF	RACTORS.												
10. INSTALLING C REPONSIBILIT DATA CONTAI ACCURACY. II	Contractors Assu Y for verification NED on these do NTEGRATION, AND A	IME ALL RELATED N OF DIMENSIONAL CUMENTS FOR ADMINISTRATION OF													
CODE REQUI RELEASE FOR BALANCE	REMENTS IN EFFECT R PRODUCTION OF	T PRIOR TO ANY EQUIPMENT SHOWN	ч.												
11. KITCHEN HOO 12. KITCHEN SHA	DDS MUST BE BALA ALL BE NEGATIVE W	NICED WITH KITCHE	EN.												
10 DINING A 13. RESTAURANT TO AMBIENT	REA. SHALL BE POSITIVE PRESSURE.	e with respect													
ADDITIONAL 14. WRITTEN HOO	DD DIMENSIONS HAV	VE PRECEDENCE O	ver scale.												
15. SIGNED AND MUST BE RE COMMENCEME	"APPROVED" COPIE CEIVED BY THE FAC ENT OF FABRICATION	es of this docum ctory prior to N.	IENT												
GENERAL	NOTES	ION EFFICIENCY													
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<u>µ1111</u> 11111				WOOD) STU יידפון				ا ا 8"		OR 4-V	VAY D	IFFUSER	S	
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Made Fr	om 430 Stair	nless Steel											<u> </u>		
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			EXHA						HOOD	ONFIG				
TOTAL			F	RISER(S	5)		-	HOOD	END TO					
EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	L SP 50 -0.551" , SIZE	CONSTRUCTION	END	ROW				
900			4"	10"	900	1650	-0.551"	430 SS WHERE EXPOSEI	ALONE	ALONE				
	LIGHT(S)							UTILITY CA	BINET(S)				
			\//IDI	=				FIR	RE SYSTEM		ELECTRICAL	SWITCHES		
	TYPE				LOCATION SI		SIZE	TYPE	SIZE		TYPE SIZE		MODEL #	QUANTITY
RECE		סארוס	NO		RIGHT	12	"x54"x24"	τανκ ές	Δ	0	DCV-1111	1 LIGHT		
INE OL				'		'2	AUT A24		-	.0	000-1111	1 FAN		

INSTALLAT	ION
SYSTEM	LOCATION ON HOOD
RE CABINET RIGHT	RIGHT, HOOD 1



FIRE HOOD

SYSTEM HANGING

PIPING WEIGHT

YES

497

LBS

1 FAN

FT-LBS.

1/2" - 13 TPI

GRADE 5 (MINIMUM STEEL HEX NUTS

1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER

1/2" - 13 TPI GRADE 5 (MINIMUM) STEEL ALL-THREAD

GRADE 5 (MINIMUM)

STEEL HEX NUT

1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHER

1/2" - 13 TPI



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FT-LBS.

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

*** NOTE ***

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MAKE-UP AIR SHALL BE L DELIVERED INTO SPACE || IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57



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MECHANICAL DIAGRAMS



LI	<u>ECTRICAL</u>	PACKAGE	<u> </u>				
10	TAG	PACKAGE #	LOCATION	LOCATION			
1/10			LOCATION	QUANTITY			
1		DCV-1111	LITILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DC	
1		DCV-IIII	UTIENT CABINET RIGHT	HOOD # 1	1 FAN	SWART CONTROLS DO	

ESCRIPTION OF OPERATION



(EACH VFD)

TO DOAS

DOAS

*** NOTE ***

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MAKE-UP AIR SHALL BE II PROVIDED BY INLINE FAN AND || DUCT HEATING COIL, NOT A DOAS.









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MECHANICAL DIAGRAMS

EXH	AUST	FAN	INFORMATION - JOB#53	12025												
FAN UNIT NO	TAG	QTY	" FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU50HFA	CAPTIVEAIRE	900	0.850	1495	TEAO-ECM	0.500	0.2840	1	115	6.3	342 FPM	84	15.8

FAN	OPTION	S							
FAN UNIT NO	TAG	QTY	DESCRIPTION						
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION						
	KEF-1	1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS						
1		1	WALLMOUNT 20.5" SQ. X 2"						
1		KEF-1	KEF-I		KEF-I			KEF-I	1
		1	SHIP LOOSE DISCONNECT FOR REMOTE MOUNT						
		1	2 YEAR PARTS WARRANTY						

FAN ACCESSORIES

FAN	TAC		EXHAUST			SUPPLY			
NO	IAG	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	KEF-1			YES					

FAN #1 DU50HFA - EXHAUST FAN (KEF-1)





FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.

- RESTAURANT MODEL.
- UL705 - VARIABLE SPEED CONTROL.
- INTERNAL WIRING.

- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C).

- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

<u>OPTIONS</u>

ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION. FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS. WALLMOUNT 20.5" SQ. X 2". WALL MOUNT CONSTRUCTION FOR FAN. SHIP LOOSE DISCONNECT FOR REMOTE MOUNT. 2 YEAR PARTS WARRANTY.



- WALL BRACKET FITS INTO BASE OF FAN. - SELF DRILLING SCREWS SHOULD BE USED FOR UNIT ATTACHMENT TO WALL MOUNT BRACKET. * DIMENSION = 5" WHEN USED WITH DAMPER. ** CENTERED IN WALL MOUNT.









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MECHANICAL DIAGRAMS

F			
	IRE ALARM SYMBOLS	LIG	HTING FIXTURE SYMBOLS
	ACP FIRE ALARM CONTROL PANEL	0	RECESSED LIGHTING FIXTURE
			DIRECTIONAL/ADJUSTABLE RECESSED LIGHTING FIXTURE
			SURFACE MOUNTED LIGHT
			WALL MOUNTED LIGHT
			WALL MOUNTED UP-LIGHT
_L			
н			RECESSED OR SURFACE MOUNTED FLUORESCENT TROFFER
SB	SMOKE DETECTOR W/ SOUNDER BASE		
	SMOKE DETECTOR W/ CARBON MONOXIDE		CEILING MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN
I			WALL MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN
R			WALL MOUNTED COMBO EXIT SIGN/ EGRESS LIGHT
			EMERGENCY LIGHTS
			EXTERIOR POLE MOUNTED LIGHT
			EXTERIOR POST (BOLLARD) MOUNTED LIGHT
	H FIRE ALARM HORN		CEILING FAN
<u>_</u>		<u>}</u>	CEILING FAN WITH LIGHT
0		_	
-		LIG	HIING CONTROL SYMBOLS
0		\$	WALL MOUNTED SWITCH
		-\$ ³	THREE-WAY SWITCH
]	FF SPRINKLER SYSTEM FLOW SWITCH	<u></u> \$ ⁴	FOUR-WAY SWITCH
[FT SPRINKLER SYSTEM TAMPER SWITCH	\$ ^J	DOOR JAMB SWITCH
	FSD FIRE/SMOKE DAMPER	\$ ^K	KEY SWITCH
]	LT LOW TEMPERATURE SENSOR	\$ ^D	DIMMER SWITCH
		\neg	WALL MOUNTED DEVICE
	GENERAL NOTES:		X WIRELESS WALL MOUNTED DEVICE
	THESE DRAWING NOTES ACCOMPANY THE CONSTRUCTION DOCUMENT	RA	ROOM CONTROLLER
	SPECIFICATIONS.	RL	PLUG LOAD CONTROLLER
	DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL		OCCUPANCY/VACANCY PROGRAMMED SENSOR - CEILING MOUNTED
	DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK.	9	WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR -
•	VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED		OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED
	TO MAKE HIS WORK MEET EXISTING CONDITIONS.		
		∣ ⊢⊚⊸	WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR -
	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID.		 WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED
	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE		 WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR
	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.		 WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR WIRELESS DAYLIGHT PHOTO SENSOR
4. 5. 6.	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF COLORADO, NATIONAL AND LIFE SAFETY CODE.	+@; 	WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR WIRELESS DAYLIGHT PHOTO SENSOR HTING DRAWING SYMBOLS
- - -	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF COLORADO, NATIONAL AND LIFE SAFETY CODE. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR	+©	WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR WIRELESS DAYLIGHT PHOTO SENSOR HTING DRAWING SYMBOLS ALIGNMENT LINE
	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF COLORADO, NATIONAL AND LIFE SAFETY CODE. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.		 WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR WIRELESS DAYLIGHT PHOTO SENSOR HTING DRAWING SYMBOLS ALIGNMENT LINE CENTER LINE DESIGNATION
k. 5. 5.	REVIEW MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE OF COLORADO, NATIONAL AND LIFE SAFETY CODE. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR		 WIRELESS OCCUPANCY/VACANCY PROGRAMMED SENSOR - CORNER MOUNTED DAYLIGHT PHOTO SENSOR WIRELESS DAYLIGHT PHOTO SENSOR HTING DRAWING SYMBOLS ALIGNMENT LINE CENTER LINE DESIGNATION
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			ISSUE LOG
ELEC.	TRICAL SHEET INDEX		Etu On Document's
#	TITLE	/2	CONSTRUCT
E-000	ELECTRICAL COVER SHEET		$ $ \vee $
E-001	LIGHTING COMCHECK	\checkmark	√
ED-101 E-101	ELECTRICAL DEMOLITION PLAN POWER & LIGHTING PLAN		√
E-201	ELECTRICAL ONE-LINE AND SCHEDULES	\checkmark	√
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ELECTRICAL SYSTEMS LEGEND



101	VER SYMBOLS
θ	SINGLE RECEPTACLE - WALL MOUNTED
€	DUPLEX RECEPTACLE - WALL MOUNTED
SB ⊖ =	DUPLEX RECEPTACLE WITH USB PORTS - WALL MOUNTED
₽_	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - WALL MOUNTED
<u> </u>	
)	DUPLEX RECEPTACLE; ISOLATED GROUND - WALL MOUNTED
	DUPLEX RECEPTACLE; HALF DIMMED - WALL MOUNTED
	DUPLEX RECEPTACLE; FULL DIMMED - WALL MOUNTED
ØН	SPECIAL OUTLET AS NOTED - WALL MOUNTED
⊜	DUPLEX RECEPTACLE - CEILING MOUNTED; TYP. ALL TYPES
€	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE; TYP. ALL TYPES
\bigcirc	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE AND TELECOM
<u></u>	JUNCTION BOX - WALL MOUNTED
	JUNCTION BOX - FLUSH FLOOR MOUNTED
J	
<u> </u>	
	POOL EQUIPMENT POWER CONNECTION
	TIMER SWITCH
<u>יי</u> רי	FUSED DISCONNECT
	NON FUSED DISCONNECT
	MOTOR STARTER
СВ	ENCLOSED CIRCUIT BREAKER
РВ	PULL BOX
●	PUSH BUTTON
ТС	TIME CLOCK
<u> </u>	PHOTO-CELL
	TRANSFORMER
	PANELBOARD OR LOADCENTER
	METER
 @	THERMOSTAT
<u> </u>	
ATS	AUTOMATIC TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH CIRCUIT HOMERUN
	AUTOMATIC TRANSFER SWITCH CIRCUIT HOMERUN CONDUIT RUN
	AUTOMATIC TRANSFER SWITCH CIRCUIT HOMERUN CONDUIT RUN CONDUIT RUN BELOW GRADE
ATS	AUTOMATIC TRANSFER SWITCH CIRCUIT HOMERUN CONDUIT RUN CONDUIT RUN BELOW GRADE CONDUIT UP
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	AUTOMATIC TRANSFER SWITCH CIRCUIT HOMERUN CONDUIT RUN BELOW GRADE CONDUIT RUN BELOW GRADE CONDUIT UP CONDUIT DOWN SWITCH THERMAL OVERLOAD SWITCH VARIABLE SPEED SWITCH KEY SWITCH -LINE DIAGRAM SYMBOLS - DISCONNECT SWITCH FUSE CIRCUIT BREAKER CURRENT TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER METER VOLT-METER AMP-METER SURGE PROTECTION DEVICE SELECTOR SWITCH GROUND FAULT PROTECTION SHUNT TRIP NORMALLY CLOSED CONTACT NORMALLY CLOSED CONTACT OLD WATER GROUND CONNECTION BUILDING STEEL GROUND CONNECTION
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WP	-	WEATHERPROOF	
XP	-	EXPLOSIONPROOF	
+18"	-	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIES M/	ARCH FLEVS)
		SEVICE ABOVE FINISHT LOOK (VERIFT W/	,



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ARTS FT. LOGAN **RENO BUILDING 16** 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819



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PROJECT:	2134FL	INITIAL DATE: DEC 21

ELECTRICAL COVER SHEET

E-000

- LIGHT LINEWEIGHT INDICATES EXISTING.
- HATCHED AREAS INDICATE DEMOLITION.
- 'C' ADJACENT TO A DEVICE INDICATES
 MOUNTING ABOVE COUNTERTOP.



BGPROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLDG#16 KITCHEN RENOVATION/CAD\BGCE CAD\9418.18_ED-101.DW



1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

DEMOLITION NOTES:

- DEMOLITION PLAN INDICATES A DESIRED SCOPE OF WORK; THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IN FIELD PRIOR TO START OF WORK.
- 2. CONDITIONS MAY EXIST WHERE (E) CABLING AND/OR EQUIPMENT IS INSTALLED WITHIN AN AREA OF DEMOLITION THAT IS INTENDED TO REMAIN IN ORDER TO KEEP SYSTEMS OUTSIDE OF THE AREA OF DEMOLITION IN OPERABLE CONDITION. CONTRACTOR SHALL PROVIDE APPROPRIATE PROTECTION AND EXERCISE CARE WHEN PERFROMING DEMOLITION AROUND SUCH CABLING AND EQUIPMENT.
- 3. ALL SYSTEMS LOCATED OUTSIDE THE AREA OF DEMOLITION ARE INTENDED TO REMAIN OPERABLE.
- 4. FOR ALL ITEMS TO BE DEMOLISHED REMOVE CIRCUIT BACK TO POINT OF CONNECTION. MAKE BRANCH CIRCUIT WITH REMAINING DEVICES CONTINUOUS.
- 5. ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEMOLISHED ITEMS FROM SITE UNLESS OWNER WISHES TO RETAIN. ITEMS REMOVED FROM SITE SHALL BE DISPOSED OF IN A LEGAL MANNER.
- 6. EVERY ATTEMPT WAS MADE TO LOCATE ALL ITEMS TO BE INCLUDED IN THE DEMOLITION SCOPE IN THIS OCCUPIED SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A REASONABLE ALLOWANCE TO INCLUDE THE REMOVAL OF ITEMS NOT INDICATED ON THE ELECTRICAL DEMOLITION PLAN.

DEMO FLAG NOTES:

- DISCONNECT AND REMOVE CEILING MOUNTED SMOKE DETECTOR.
- 2. DISCONNECT AND REMOVE WALL MOUNTED INTERCOM SYSTEM STATION.
- 3. DISCONNECT AND REMOVE CEILING MOUNTED LIGHT FIXTURES AND ASSOCIATED SURFACE MOUNTED JUNCTION BOX.
- DISCONNECT AND REMOVE SURFACE MOUNTED FLUORESCENT TASK LIGHT FIXTURE ATTACHED TO BOTTOM OF SHELF.
- 5. DISCONNECT AND REMOVE TASK LIGHT AND DISPOSAL TOGGLE SWITCHES.
- 6. DISCONNECT AND REMOVE WALL MOUNTED OCCUPANCY SENSOR.
- 7. DISCONNECT AND REMOVE SURFACE MOUNTED FLOOD LIGHT.



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ARTS FT. LOGAN RENO BUILDING 16 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819



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DRAWN BY: CHECKED BY: PROJECT: 2134FL INITIAL DATE: DEC 21 ELECTRICAL DEMOLITION PLAN

ED-101

Project Information Energy Code: Project Title: Project Type:

Construction Site: 3844 West Princeton Circle Denver, CO 80202

Allowed Interior Lighting Power

1-School/University Proposed Interior Lighting Power

School/University (345 sq.ft.) LED 1: S1 and S1e: 1'X4' LED Fixture: Other:

nterior Lighting PASSES

Interior Lighting Compliance Statement applicable mandatory requirements listed in the Inspection Checklist. Michael Reed - PM Name - Title

Project Title: UCD - Fort Logan Data filename: C:\CU Anschutz -ARTS Fort Logan.cck



 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: UCD - Fort Logan Data filename: C:\CU Anschutz -ARTS Fort Logan.cck

COM*check* Software Version 4.1.5.3



	heck Software Vers	ion 4.1.	5.3			
Exte	rior Lighting C	ompli	ance (Certi	ficat	e
Project Information						
Energy Code: Project Title: Project Type: Exterior Lighting Zone	2018 IECC UCD - Fort Logan Alteration 2 (Neighborhood business	district (LZ2))				
Construction Site: 3844 West Princeton Circle Denver, CO 80202	Owner/Agent: Mike Vigil 303-921-0415 Mike.Vigil@ucdenver	.edu	Designer/Co BG Buildi 1626 Col Suite #3(Lakewood	ontractor: ngworks e Blvd D0 d, CO 80403	L	
Allowed Exterior Lighting	g Power					
A Area/Surface	Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	Allowe (B	E ed Watts X C)
Walkway >= 10 feet wide		45 ft2	0.1	Yes		4
			Total Tradab	le Watts (a) :	=	4
		Total Allo	wed Supplement	al Watts (b) :	-	400
(a) Wattage tradeoffs are only (b) A supplemental allowance	allowed between tradable areas/surfaces. equal to 400 watts may be applied toward	compliance of bo	oth non-tradable a	and tradable a	areas/surfac	es.
Proposed Exterior Lighting	ng Power					
Fixture ID : Desc	A ription / Lamp / Wattage Per Lamp /	Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway >= 10 feet wide (45	<u>ft2): Tradable Wattage</u>				05	05
LED 1: Other:	· · · · · · · · · · · · · · · · · · ·		Total Trac	dable Propos	ed Watts =	25
Extorior Lighting BASSE	e					
Exterior Lighting PASSE	5					
Exterior Lighting Compli Compliance Statement: The building plans, specifications, systems have been designed applicable mandatory require	ance Statement proposed exterior lighting alteration p , and other calculations submitted wit to meet the 2018 IECC requirements ements listed in the Inspection Checkl	project represer h this permit ap in COM <i>check</i> V ist.	nted in this doct oplication. The p fersion 4.1.5.3 a	ument is co proposed ex and to comp	nsistent w kterior ligh oly with ar	ith the iting iy
Michael Reed - PM	mile T Read			02/	15/2022	
Name - Title	Signature			Date		

Report date: 02/15/22 Page 1 of 7

Project Title: UCD - Fort Logan Data filename: C:\CU Anschutz -ARTS Fort Logan.cck

Report date: 02/15/22 Page 2 of 7

pection	Complies?	Comments/Assumptions	
nt- Ianual pant to ng load in nation	□Complies □Does Not □Not Observable □Not Applicable	Exception: Areas such as security or emergency areas that need continuous lighting.	
d in rooms, irpose sed offices, rooms, s, nd other e enclosed rtitions. ion in 05.2.1.3	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
function in , the en areas is nsors that g power reas are ensors eway ontrol y being	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
cction in upant espaces 1) ighting can control 00 sq.ft. tically turn trol zones occupants configured er in each >= 80% of g power upants od 4) are ylight ate space one occupancy ed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
cupancy time- is detailed C405.2.2.2.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Lighting controlled by occupancy sensors. Location on plans/spec: E-101	
			-

Section # & Reg.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	Section # & Reg.ID	Final Inspection
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.	C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.
C405.2.4 [EL26] ¹	responsive control function and section C405.2.3.2 Sidelit zone. Separate lighting control devices for specific uses installed per approved	□Complies □Does Not	Requirement will be met.	C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with is shown on the approved lighting plans, demonstrating proposed w
	lighting plans.	□Not Observable	Location on plans/spec: E-101	C405 5 1	watts.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is	Complies		[FI19] ¹	with what is shown on the approv lighting plans, demonstrating proposed watts are less than or e
0405.0.5	automatically controlled and separated from general lighting.			C408.1.1	Building operations and maintena
[EL28] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Complies □Does Not □Not Observable □Not Applicable			owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrat
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	Exception: Requirement does not apply.		systems are intended to be insta maintained, and operated.
		□Not Observable □Not Applicable		C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 of system acceptance.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	□Complies □Does Not □Not Observable □Not Applicable		C408.3 [FI33] ¹	Lighting systems have been teste
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Complies □Does Not □Not Observable □Not Applicable		Addition	programming, and operation.
C405.8.2, C405.8.2. 1	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum	□Complies □Does Not □Not Observable			
[CL20]*	permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	∐Not Applicable			
C405.9 [EL29] ²	permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers. Total voltage drop across the combination of feeders and branch circuits <= 5%.	□Not Applicable □Complies □Does Not □Not Observable □Not Applicable		_	
C405.9 [EL29] ²	permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers. Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable			
C405.9 [EL29] ²	permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers. Total voltage drop across the combination of feeders and branch circuits <= 5%. al Comments/Assumptions:	☐ Not Applicable ☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	act (Tier 2) 3 Low Impact (Tier 3)		1 High Impact (Tier

Report date: 02/15/22 Page 4 of 7 Project Title: UCD - Fort Logan Data filename: C:\CU Anschutz -ARTS Fort Logan.cck

Report date: 02/15/22 Project Title: UCD - Fort Logan



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IPR

COMcheck Software Version 4.1.5.3 **Inspection Checklist**

Energy Code: 2018 IECC Requirements: 55.0% were addressed directly in the COM*check* 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.

ction # Req.ID	Plan Review	Complies?	Comments/Assumptions
3.2 4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	⊠Complies □Does Not □Not Observable □Not Applicable	Location on plans/spec: Project Specification
3.2 3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	⊠Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions



UNIVERSITY OF COLORADO DENVER ANSCHUTZ

ARTS FT. LOGAN **RENO BUILDING 16** 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Report date: 02/15/22 Project Title: UCD - Fort Logan Data filename: C:\CU Anschutz -ARTS Fort Logan.cck Page 3 of 7

))	Final Inspection	Complies?	Comments/Assumptions
	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
	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.	□Complies □Does Not □Not Observable □Not Applicable	
	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: Project Specifications



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DATE	DES	SCRIPTION
02-15-22	95%	CONSTRUCTION DOCUMENTS
04-12-22	100	% CD FOR CONSTRUCTION
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PROJECT:	2134FL	INITIAL DATE: DEC 21

ELECTRICAL COMCHECK

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Report date: 02/15/22 Page 5 of 7 Data filename: C:\CU Anschutz -ARTS Fort Logan.cck Page 6 of 7

E-001





POWER NOTES:

- 1. REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR FINAL RECEPTACLE AND DEVICE PLACEMENT. COORDINATE ALL RECEPTACLE MOUNTING LOCATIONS WITH FIXTURES, APPLIANCES, FURNITURE, CABINETRY, AND OTHER EQUIPMENT PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL EQUIPMENT SCHEDULE 2. FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.
- 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. EC SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS, AND BRANCH CIRCUITS.
- 4. COORDINATE POWER CONNECTIONS FOR OWNER PROVIDED EQUIPMENT AND APPLIANCES, AND ALL OTHER EQUIPMENT PROVIDED BY OTHER DIVISIONS WITH SUBMITTAL DATA CUT SHEETS, WIRING DIAGRAMS, AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. FIELD COORDINATE FINAL LOCATIONS OF EQUIPMENT AND POWER CONNECTIONS WITH GENERAL CONTRACTOR AND OTHER DIVISIONS/CONTRACTORS PRIOR TO ROUGH-IN.

(#) FLAG NOTES:

- 1. THE PROPOSED ROUTING OF THE FEEDER FROM PANEL "B" TO "B1" IS INDICATED. PROPOSED ROUTING IS TO COME OUT OF PANEL "B" RUN HORIZONTALLY BELOW WINDOW, BEHIND DRYERS, UP TO CEILING AND ALONG CEILING TO INDICATED JUNCTION BOX THEN UP TO PANEL "B1". ALL CONDUIT AND THE JUNCTION BOX SHALL BE SURFACE MOUNTED ON EXISTING WALL AND CEILING.
- 2. PROVIDE 8" x 8"x 4" (TALL) JUNCTION BOX FOR ROUTING OF FEEDER FROM PANEL "B" TO PANEL "B1". SURFACE MOUNT JUNCTION BOX TO BASEMENT CEILING STRUCTURE.
- 3. CONDUIT UP TO ISLAND MILLWORK FROM PANEL "B1". SURFACE MOUNT CONDUIT ON BASEMENT CEILING FROM PANEL "B1" TO ISLAND RECEPTACLES.
- 4. PROVIDE WATT-STOPPER #DSW-301 (OR EQUAL) WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES.
- 5. CONDUIT UP INTO ISLAND WORKSTATION.
- 6. EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.
- 7. EXISTING FIRE ALARM PULL STATION TO REMAIN.
- 8. REPLACE EXISTING RECEPTACLE AND ASSOCIATED COVER PLATE USING EXISTING BRANCH CIRCUITING.
- 9. EXISTING FIRE ALARM PANEL TO REMAIN.
- 10. HOOD ELECTRICAL CONTROL PANEL WITH FIRE ALARM CONNECTION AND SHUNT TRIP CONTACTS PROVIDED WITH KITCHEN HOOD.
- 11. PROVIDE WATT-STOPPER #DT-355 (OR EQUAL) CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES.
- 12. 5mA GFCI REMOTE SELF-TESTING DEVICE FOR FOR GAS RANGE.
- 13. PROVIDE 120-VOLT CONNECTION TO HOOD CONTROL PANEL.
- 14. NEW SYSTEM HEAT DETECTOR.
- 15. THIS PROJECT SCOPE SHALL BE PRICED AS ADD ALTERNATE #1.
- 16. THIS PROJECT SCOPE SHALL BE PRICED AS ADD ALTERNATE #2.
- 17. THIS RECEPTACLE SHALL BE A 4-PLEX.

18. PROVIDE WATT-STOPPER #DT-355 (OR EQUAL) CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES. $\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim$

19. INSTALL HOOD FIRE PULL STATION (PROVIDED BY OTHERS) AT +48" ABOVE FINISHED FLOOR. ROUTE 3/4" EMT CONDUIT FROM PULL STATION JUNCTION BOX TO HOOD RELEASE ASSEMBLY IN HOOD NEAR

ANSUL CONTROLS. INSTALLATION AND TERMINATION OF CONTROL CABLES WILL BE BY HOOD INSTALLATION CONTRACTOR ·····



UNIVERSITY OF COLORADO DENVER ANSCHUTZ

ARTS FT. LOGAN **RENO BUILDING 16** 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819







ARCHITECTURAL WORKSHOP . DENVER COLORADO

DA	TE	DESCRIPTION
2-1	5-22	95% CONSTRUCTION DOCUMENTS
4-1	2-22	100% CD FOR CONSTRUCTION
6-1	7-22	CODE REVIEW COMMENTS



DRAWN BY: CHECKED BY: PROJECT: 2134FL INITIAL DATE: DEC 21

POWER AND LIGHTING PLAN

E-101

						KITCHEN E	QUIPMENT SCHEDUL	.E			
MARK	DESCRIPTION	VOLT / PHASE	HP / WATTS	AMPS		C	ONNECTION		FEEDER	CIRCUIT	SPECIFIC NOTES
					HARDWIRED	RECEPTACLE	DISCONNECT	HEIGHT			
K-1	GAS RANGE	120/1	1440 WATTS	15.0		NEMA 5-20 GFCI		#1	20(2WG)	B1-15	#2
K-2A	MICROWAVE	120/1	1650 WATTS	13.8		NEMA 5-20		RE:ARCH	20(2WG)	B1-3	
K-2B	MICROWAVE	120/1	1650 WATTS	13.8		NEMA 5-20		RE:ARCH	20(2WG)	B1-5	
K-3	DISHWASHER	120/1	1440 WATTS	12.0		NEMA 5-20		18"	20(2WG)	B1-2	
K-4	REFRIGERATOR	120/2	648 WATTS	5.4		NEMA 5-20		18"	20(2WG)	B1-4	
K-5	FREEZER	120/3	1152 WATTS	9.6		NEMA 5-20		18"	20(2WG)	B1-6	
K-6	GAS VALVE	120/3	120 WATTS	1.0	YES			VERIFY WITH PLUMBER	20(2WG)	B1-18	
K-7	HOOD LIGHTS	120/3	120 WATTS	1.0	YES			HOOD CONTROL PANEL	20(2WG)	B1-22	
K-8	DISPOSAL	120/3	756 WATTS	6.3		NEMA 5-20		18"	20(2WG)	B1-19	
GENERAL A.	NOTES: FIELD VERIFY ALL EQUIPMEN	IT POWER AND	CONNECTION	REQUIREM	ENTS WITH KITCHEN	CONTRACTOR AND MANUE	ACTURER'S INFORMATION.				

B. HARD WIRED EQUIPMENT CONNECTIONS SHALL BE SEALTIGHT.

C. E.C. SHALL COORDINATE ALL CONNECTION POINT LOCATIONS AND RECEPTACLE CONFIGURATIONS WITH THE KITCHEN CONSULTANT. VERIFY EQUIPMENT DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION. D. ANY EQUIPMENT UNDER HOOD TIES INTO FIRE SUPPRESSION SYSTEM. PROVIDE SHUNT TRIP CIRCUIT BREAKER TO TURN EQUIPMENT OFF WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED.

E. PROVIDE ALL EQUIPMENT DISCONNECTS IN KITCHEN WITH NEMA 3R RATING. F. COORDINATE CONTROLS WITH KITCHEN EQUIPMENT VENDOR.

(3)

SPECIFIC NOTES: (1) PROVIDE RECEPTACLE 6" TO THE RIGHT OF LEFT EDGE OF STOVE (LOOKING AT STOVE) AT +4" ABOVE FINISHED FLOOR. (2) PROVIDE 5mA GFCI REMOTE SELF-TESTING DEVICE FOR GFCI PROTECTION AND RESET OF GAS RANGE RECEPTACLE

ſ							MECH	ANIC	AL EQUI	PMENT S	CHEDULE			
ſ	MARK	DESCRIPTION	VOLT / PHASE	HP	WATTS	FLA	МСА	МОСР	AIC RATING	STARTER	DISCONNECT/ FUSE SIZE	FEEDER	CIRCUIT	SPECIFIC NOTES
	CU-1	CONDENSING UNIT #1	208/1	N/A	2,995 WATTS	14.4	18.0	30A2P	N/A	N/A	30A2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE	30(3WG)	B1-7,9	
Τ														
	FC-1	FAN COIL UNIT #1	208/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20A2P MOTOR RATED SITCH IN NEMA 1 ENCLOSUTE	30(4WG)	#1	
Ī	KEF-1	KITCHEN EXHAUST FAN	120/1	1/2 HP	1176 WATTS	9.8	12.3	20A1P	N/A	N/A	20A1P MOTOR RATED SWITCH IN NEMA 1 ENCLOSURE	20(3WG)	B1-10	
	SF-1	KITCHEN SUPPLY FAN	120/1	1/3 HP	864 WATTS	7.2	9.0	20A1P	N/A	N/A	20A1P MOTOR RATED SWITCH IN NEMA 1 ENCLOSURE	20(3WG)	B1-12	
	UH-1	UNIT HEATER #1	120/1	1/25 HP	360 WATTS	3.0	3.8	20A1P	N/A	N/A	20A1P MOTOR RATED SWITCH IN NEMA ENCLOSURE	20(2WG)	B1-16	
ľ	G ENERAL A. B. C.	NOTES: SEE SPECIFICATIONS FOR I PROVIDE PHASE PROTECTI PROVIDE ALL EXTERIOR DIS	ELECTRICAL DIVIS ON FOR ALL THRE SCONNECTS WITH	SION AND EE PHASE 1 NEMA 3F	MECHANICA MOTORS A R RATING.	AL DIVISIO BOVE 7-1/	N MOTOR 2 HP.	STARTER	COORDINATIO	N.				

							1		VO		GE		120/240V	1PH, 3V	N								
PANEL:			(E) PAN	EL B								18.	150	,				PA	NEL:			(N) PAN	IEL B1
	N·		BASEM	ENT					МА				150/2 CB							<u>م</u> .		KITCHE	N
MOUNTIN	G.								MI	MIN.	ΙΜΑΙ	r.	22 000 (SE							<u>.</u> C·			
MOONTIN	0.	-			-		J					U.	22,000 (02							0.	-		
NO. LC	DAD	TYPE	LOAD D	ESCRIPTION	BRE		B	JS	BRE	AKER	TYPE	LOAD	D DESCRIPTION	LC		NO.		NO.	LC	AD	TYPE	LOAD D	ESCRIPTION
A 1	В		SDADE		POLE		A	В	TRIP	POLE	=			A	В	2		1	A	В	_		
2			SPARE		1	20	+	-	20	1	-	(E) LOAD				2		3		1650	^	SPARE	
5	_		(E) FIRE ALA	RM PANEL (2)	1	20	+	-	20		_	(E) LOAD			_	4		5	1650	1030	A	K-2A - MICRO	
7					1	20	-	+	20	1		(E) LOAD				0		7	1050	1/08		K-2B - MICRO	JWAVE (1)
0					1	20	+	-	20	1					_	10		0	1/08	1490		1	CU-1
9 11		<u> </u>			1	20	т	-	20	1						10		9 11	1490	540	R		
13		-			1	20	+	т	20	1						14		13	268	340			
15		-			1	20	-	+	20							16		15	200	1440			
17					1	20	+	· ·	20							18		17		1440	~	SHUNT TRIP	SPACE
19				RECEFT(2)	1	20		+	20							20		19		756	Α		
21					1	20	+	<u> </u>	20	1			R (1) (2)			22		21		100		SPARE	
23					1	20		+	20	1			R(1),(2)			24		23				SPARE	
25					1	20	+	· ·	20				Ι (1),(Ζ)			26		25				SPARE	
27					1	20		+	20	1						28		27				SPARE	
29					1	20	+	· ·	20	1						30		29				SPARE	
31			(E) EO(E)	3 (2)	1	20	-	+	20	1						32							
33			(E) RADON F	AN (2)	1	20	+		20	1		(E) LOAD				34		1.04	D TYPE	PANEL T		FEED THRU	SUBFEED TO
35			SPARE	/ (((2)	1	20		+	20	1		(E) PORC	H REC (2)			36					•	TOTAL	002.112.10
37			(F) I OAD (4)		1	15	+		20	1		(E) WASH	IFRS (1) (2)			38		(L) LIGH	TING		388		
39			PANEL "B1"	(4)	-			+	20	1		(E) WASH	IERS (1) (2)			40		(R) REC	EPTACLES		540		
41					2	90	+					SPACE	.2.10 (1),(2)			42		(LM) LRO	G. MOTOR		2996		
	-			1	-				-		-							(M) MOT	ORS (ALL)		5036		
LOAD TYPE	PANEL	TOTAL	SUBFEED	SUBFEED TOTAL	FEE		DEN	IAND	FEEDE	R TOTAL	L		GENERAL I	NOTES:				(E) EQU	IPMENT		920		
			TOTAL		306	TOTAL						A. EX	ISTING GENERAL ELECTRI	IC PANELBC	DARD			(A) APPI	LIANCES		8736		
(L) LIGHTING		0			0		12	5%		0	_	WI	TH 150A2P THQMV MAIN C	IRCUIT BRE	AKER								
(R) RECEPTACLES		0			0		NEC	220		0	_												
(LM) LRG. MOTOR		0			0		25	5%		0	_												
(M) MOTORS (ALL)		0			0		10	0%		0	_			0750									
(E) EQUIPMENT		0			0		10	0%		0	_		SPECIFIC	NOTES:									
(A) APPLIANCES		0			U			0		0		(1) EX	ISTING 5mA GFCI CIRCUIT	BREAKER									
					PAN	NEL TO	TAL ((VA):	0	0.0		(2) EX		ON OB LAINEI	DFROM								
					<u> </u>	-	(-	,.			-	SIT	E UBSERVATION	0 #TUO: 0 : 0			1						
					PAN	NEL TO	TAL (A):		0	1	(3) PR	OVIDE GENERAL ELECTRI	U#THQL219			1						
							(-	,	I		J	BR	EAKER FOR TERMINATION		"B1" FEEDE	:к.	1						
												(4) RE	PLACE EXISTING CIRCUIT	BREAKER V			1						
												GE	INERAL ELECTRIC THQL11		BREAKER.								
															UNIU		1						
												RE	PLACEMENT CIRCUIT BRE	:AKER									

				LAMP	/ LIGHT SOUF	٢CE							SPECIFIC		
TYPE	DESCRIPTION	MOUNTING	LAMP QTY	ТҮРЕ	LUMENS	CRI	сст	WATTS	DIMMING	VOLT	MANUFACTURER	CATALOG NUMBER	NOTES		
S1	SURFACE MOUNTED LED UTILITY WRAP FIXTURE WITH ACRYLIC LENS	SURFACE	1	LED	5000	80	4000	44.8	0-10 VOLT	UNV	METALUX	4WSL-LD2-50-SRS-UNV-L840-CD1			
S1e	Ie SAME AS FIXTURE TYPE "S1" EXCEPT WITH INTEGRAL BATTERY PACK SURFACE 1 LED 5000 80 4000 44.8 0-10 VOLT UNV METALUX 4WSL-LD2-50-SRS-UNV-EL14-L840-CD1														
X1	K1 EXTERIOR WALL MOUNTED EGRESS FIXTURE WITH INTERGRAL BATTERY PACK SURFACE 1 LED 3500 70 4000 25.4 0-10 VOLT UNV McGRAW-EDISON ISC-SA1-B-740-U-T3-GM-CBP-AHD145-BPC														
X2	LED EXIT SIGN WITH INTEGRAL BATTERY PACK AND SELF-DIAGNOSTICS	SURFACE	1	LED	N/A	N/A	N/A	1.0	N/A	UNV	SURE-LITES	LPX7SD			
GENER A.	A. THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST SEEING APPLICABLE														

B. REFER TO DRAWINGS FOR FIXTURES REQUIRING EMERGENCY BATTERY BACKUP OPTION (SHOWN BY HATCH IN/OVER SYMBOL). MINIMUM LIGHT OUTPUT FOR EM BALLAST SHALL BE 600 LUMENS. BATTERY SHALL OPERATE FOR A MINIMUM OF 90 MINUTES. C. ELECTRICAL CONTRACTOR TO CONFIRM FIXTURE COMPATIBLITY WITH CEILING TYPE AND CEILING THICKNESS PRIOR TO FINAL FIXTURE ORDER. SPECIFIC NOTES:

			-										
					VO	LTA	GE:			120/240V,	1PH, 3V	V	
EL BI					МІ	NIMU	мвu	S:		100			
٧					MA	IN:				MLO			
E					МІ	NIMU	ΜΑΙ):		22,000 (FU	ILLY RA	TED)	
	BREA	AKER	В	JS	BRE	AKER					LO	AD	T
SCRIPTION	POLE	TRIP	Α	В	TRIP	POLE	TYPE	LOA	ND DE	SCRIPTION	А	В	NO.
	1	20	+		20	1	Α	K-3 - DIS	HWA	SHER (1)	1440		2
WAVE (1)	1	20		+	20	1	Α	K-4 - REF	FRIG	ERATOR (1)		648	4
WAVE (1)	1	20	+		20	1	Α	K-5 - FRE	EEZE	R (1)	1152		6
	2	30		+	20	1	Е	COUNTE	R RE	ECEPTACLES		360	8
,0-1	2	30	+		20	1	М	KEE-1	\sim	$\sim \sim$	1170	\sim	19
N RCPT	1	20		+	20	1	M	SF-1 (2),((3)			864	12
HTING	1	20	+					SHUNT T	rrip :	SPACE			14
GE (2),(3)	1	20		+	20	1	Е		$\mathbf{\Sigma}$		\sim	360	18
SPACE			+		20	1	Е	K-6 - GAS	S VAL	_VE (2),(3)	100		18
L (1)	1	20		+				SHUNT T	rrip :	SPACE			20
	1	20	+		20	1	L	HOOD LI	GHT	S (2),(3)	120		22
	1	20		+	20	1		SHUNT T	[RIP \$	SPACE			24 26
	1	20	+		20	1	Е	HOOD CO	ONTF	ROL PANEL	100		
	1	20		+	20	1		SPARE					28
	1	20	+		20	1		SPARE					30
							1			CENERAL	NOTES		
SUBFEED TOTAL	SUBT	DER OTAL	DEN	IAND	FEEDEF	R TOTAL		Α.		GENERAL	NOTES.		
	FEEDER DEMAND FEEDER TO SUBTOTAL DEMAND FEEDER TO 388 125%							В.					
	540		NEC	220		540	1	C.					
	2996		25	5%		749		D.					
	5036	5 <u>25%</u>				5036		E.					
	920 100%					920	1			SPECIFIC I	NOTES:		
	8736 >6					5678		(1) PF	ROVID	E 5mA GFCI CIRCUIT	BREAKER		
							1	(2) PF	ROVID	E SHUNT TRIP CIRCU	JIT BREAKER		
	PANEL TOTAL (K				1 13	0.4		SHUNT TRIP.					
	DAN		TAL (.				(3) CONNECT CIRCUIT BREAKER SHUNT TRIP WIRE					
	PANEL T				5			TO HOOD FOR CONTROL OF CIRCUIT BREAKER					
	-						-						



1 ONE-LINE DIAGRAM

N.E.C. LOAD	CALCULATION	FOR DWELLING UNIT PER N	EC 220.	16						BY:		
BUILDING:	UNIT #:	VOLTAGE: PHASE:	٦							DATE: 4/21/2022		
N/A	N/A	240 1	1									
			-								AMPS	
	LIGHTING &		1									1
		4,620 3	=	13860	VA						20	(2
NEC 220.42	NEC LIGHTI	NG LOAD DEMAND FACTOR:									30	(2
		FIRST 3 VA AT 100%								3000 VA	40	(
		REMAINDER AT 35%							-	3801 VA		
		TOTAL DEMANDED LOAD:								6801 VA	50	(
	DWELLING U	JNIT APPLIANCE LOADS:	I								60	(
		APPLIANCE	#	LOAD			TOTAL					(
		GAS RANGE	1	1440	VA	=	1440	VA			70	(
		CLUTHES WASHER	2	1200	VA	-	2400	VA				
		MICROWAVE	2	1650	VA	-	3300	VA			80	
		DISHWASHER	1	1440	VA	=	1440	VA			90	
		REFRIGERATOR	1	648	VA	=	648	VA				
		FREEZER	1	1152	VA	=	1152	VA			100	
		DISPOSAL	1	756	VA	=	756	VA			150	(2
		TOTAL APPLIANCE LOAD:				-	13536	VA	X 100% =	13536 VA	150	(2
											CONDUCTOR SIZE	S ARE BASE
NEC 220.53	NEC DEMAN	ID FACTOR FOR DWELLING U	INIT AP		OADS:						CONDUIT SIZES AF	RE BASED O
		TOTAL APPLIANCE LOAD x	.75%							10152 VA		
	MECHANICA	L EQUIPMENT:										
		(E) PTAC	7	1200	VA	=	8400	VA				
		(E) HOT H2O CIRC	1	690	VA	=	690	VA				
		(E) WATER HEATER	2	500	VA	=	1000	VA				
		(N) CU-1/FC-1	0	2995	VA	-	2995	VA				
		(N) EF-1 (N) KEF-1	1	1176	VA	-	1176	VA				
		(N) SF-1	1	864	VA	=	864	VA				
		(N) UH-1	1	360	VA		360	VA				
		(E) BATH EXHAUST FAN	1	50	VA	=	50	VA				
		TOTAL UNIT MECH LOAD:				•	15535	VA	X 100% =	15535 VA		
						TOTAL		ELECTR	ICAL LOAD:	32488 VA		
					<i>N</i>	INIMUN	n ELECTR	ICAL SE	RVICE SIZE:	135.4 AMPS		
		B07										

SERVICE WIRING SCHEDULE

		COPPER							A
	(014)	(410)		GROUNDIN	IG ELECTR	ODE SYSTE	м	(014)	(444)
AWFS	(300)	(477)	GEC		BONDING	G JUMPERS		(300)	(4VV)
	1Ø, 3 WIRE	3Ø, 4 WIRE	M.F.	W.P.	C.E.C.	G.RING	G. ROD	1Ø, 3 WIRE	3Ø, 4 WI
300	(3-350 KCMIL) 2 1/2"C	N/A	#2 CU	#2 CU	#4 CU	#2 CU	#6 CU	N/A	N/A
CONDUIT SIZ	ES ARE BASED ON NEC TABLE 4 (RNC	SCHEDULE 80) AND TABLE 5 (THHN INSU	ILATION).						
ABBREVIATIC	NS: W.P WATER PIPE; M.F METAL	FRAME OR STRUCTURE; C.E.C CONCI	RETE ENCA	SED ELECT	RODE; G.RI	NG GROU	ND RING; G.R	OD - GROUND ROD, PIPE OR PLATE ELECT	RODE
REFER TO GF	ROUNDING ELECTRODE CONDUCTOR (GEC) DETAIL DRAWING. IF A DIFFERENT	CONFIGUR	ATION IS US	ED, THE CO	ONTRACTOR	R IS RESPONSI	IBLE FOR SIZING THE GEC AND BONDING J	JUMPERS PER NEC 250.6

		SHORT CIRCUIT CALCULATIONS SUMMARY														
	EQUIP.	LENGTH	VOLT	WIRE SIZE	CONDUCTOR MATERIAL	CONDUIT	VOLTAGE CLASS (V)	# OF CABLES (S or T)	C VALUE *	# OF PARALLEL RUNS	ISC AVAILABLE UPSTREAM	f*	M *	lsc (FAULT) *	POINT	
1	SERVICE DISCONNECTS	10	240	350	С	S	600	S	19,703	1	21,700	0	1	20,102	F1	
2	PANEL B	5	240	2X	С	S	600	S	10,755	1	20,102	0	1	18,832	F2	
3	PANEL B1	30	240	1	С	S	600	S	7,292	1	18,832	1	1	12,078	F3	
UTC	MATICALLY CALCULATED															
ilit' Xim	Y TRANSFORMER SIZE: IUM AVAILABLE (SYMMETRICAL) F	FAULT AT TH	IE SECONI	DARY:		50 21700	KVA AMPS									

GENERAL NOTES:

1. EXISTING ELECTRICAL INFORMATION FROM SITE SURVEY AND IS BELIEVED TO BE CORRECT. IF ACTUAL FIELD CONDITIONS IS FOUND TO BE INCORRECT NOTIFY ENGINEER IMMEDIATELY.



UNIVERSITY OF COLORADO DENVER ANSCHUTZ

ARTS FT. LOGAN **RENO BUILDING 16** 3844 & 3854 W. PRINCETON CIR DENVER, COLORADO 80202 STATE PROJECT NO: 22-106819



(2WG)	(3WG)	(4WG)
2 WIRE, GROUND	1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND	3Ø, 4 WIRE, GROUND
2 & 1#12 G) 3/4"C	(3#12 & 1#12 G) 3/4"C	N/A
0 & 1#10 G) 3/4"C	(3#10 & 1#10 G) 3/4"C	N/A
s & 1#10 G) 3/4"C	(3#8 & 1#10 G) 3/4"C	N/A
5 & 1#10 G) 3/4"C	(3#6 & 1#10 G) 3/4"C	N/A
& 1#10 G) 3/4"C	(3#4 & 1#10 G) 1"C	N/A
4 & 1#8 G) 3/4"C	(3#4 & 1#8 G) 1"C N/A	
#3 & 1#8 G) 1"C	(3#3 & 1#8 G) 1"C	N/A
#3 & 1#8 G) 1"C	(3#3 & 1#8 G) 1 1/4"C	N/A
#3 & 1#8 G) 1"C	(3#3 & 1#8 G) 1 1/4"C	N/A
0 & 1#4 G) 1 1/4"C	(3#2/0 & 1#4 G) 1 1/2"C	N/A





ARCHITECTURAL WORKSHOP . DENVER COLORADO

2-15-22	95% CONSTRUCTION DOCUMENTS
4-12-22	100% CD FOR CONSTRUCTION
6-17-22	CODE REVIEW COMMENTS

DRAWN BY:		CHECKED BY:
PROJECT:	2134FL	INITIAL DATE: DEC 21

ELECTRICAL SCHEDULES

E-201

GROUNDING ELECTRODE CONDUCTO GEC BONDING JUMPERS W.P. M.F. C.E.C. G.RING (4W) 3Ø, 4 WIRE N/A na #2 CU #2 CU #2 CU #6 CU TE ELECTRODE

ALUMIN