

UNIVERSITY OF  
COLORADO  
ANSCHUTZ

ARTS FT. LOGAN  
RENO BUILDING 16

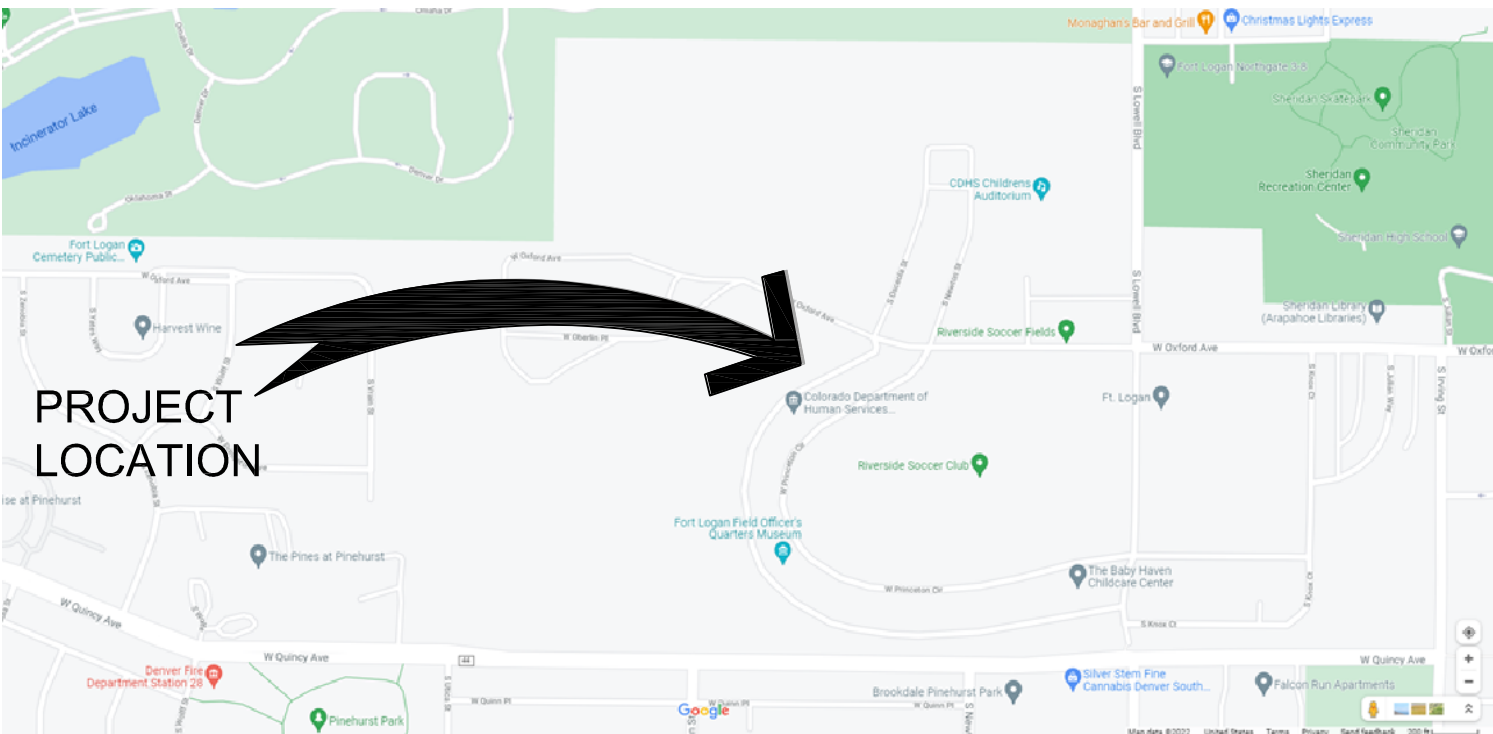
3844 & 3854 W. PRINCETON CIR  
DENVER, CO 80202  
STATE PROJECT NO: 22-106819

# ARTS FT. LOGAN RENO BUILDING 16

## 100% CD FOR CONSTRUCTION

APRIL 12, 2022

### LOCATION MAP:



### CONTACTS:

**OWNER:** CU ANSCHUTZ  
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1626 COLE BLVD, SUITE 300  
LAKEWOOD, COLORADO 8040  
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Digitally signed  
by Joseph S  
Marshall  
Contact Info:  
303.788.1717  
Date:  
2022.04.28  
08:39:38-06'00'



ARCHITECTURAL WORKSHOP . DENVER COLORADO

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



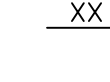






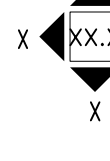


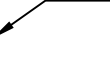




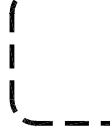

# G-001



ABBREVIATIONS:

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

SYMBOLS:

NO WORK THIS AREA	
MEANS OF EGRESS EXIT DISCHARGE	
ROOF PITCH	
ELEVATION TAG	 FINISH FLOOR EL: 100'-0"
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	

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.

BUILDING CONSTRUCTION:	TYPE V-B	(NO CHANGE FROM EXISTING)
OCCUPANCY GROUP:	I-1 (CONDITION 1)	(NO CHANGE FROM EXISTING)
CODE:	2018 IBC 2018 IEBC 2018 IMC 2018 IECC 2020 NEC 2018 IPC 2018 IFC 2017 ICC/ANSI A177.1	
CONSTRUCTION AREA:	KITCHEN & PORCH = 460 NET S.F.	
TOTAL FLOOR AREA:	BASEMENT FLOOR TOTAL AREA = 3,146 G.S.F. FIRST FLOOR TOTAL AREA = 3,390 G.S.F. 2ND FLOOR TOTAL AREA = 3,146 G.S.F. TOTAL AREA = 9,682 G.S.F.	
OCCUPANT LOAD:	NO CHANGE FROM EXISTING	
SPRINKLER SYSTEM:	FULLY	(AS PER IBC CH 9)
BUILDING HEIGHT (# OF STORIES):	2 STORIES	(NO CHANGE FROM EXISTING)

FT. LOGAN - BUILDING 16  
3844 & 3854 W. PRINCETON CIR  
DENVER, COLORADO 80202

WORK UNDER  
A SEPERATE CONTRACT:

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

PROJECT NOTES:

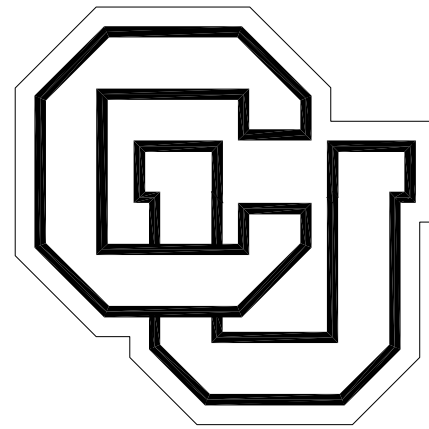
1. CONTRACTOR AND SUB-CONTRACTORS ARE RESPONSIBLE TO READ AND UNDERSTAND ALL OF THE DRAWINGS AND THE PROJECT SPECIFICATION BOOK.
2. GENERAL CONTRACTOR (G.C.) IS RESPONSIBLE TO COORDINATE WITH THE CU ANSCHUTZ PROJECT MANAGER'S FOR HOURS OF OPERATION, ALLOWABLE CONSTRUCTION TIMES AND CONSTRUCTION ACTIVITIES. 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

GENERAL  
CONTRACTOR NOTES:

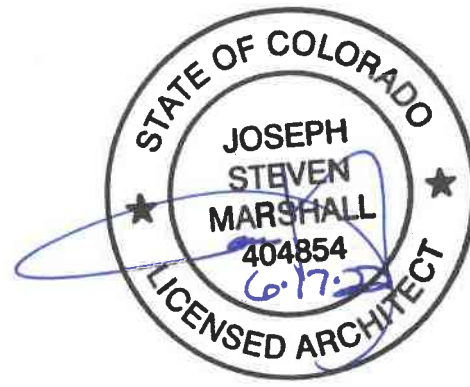
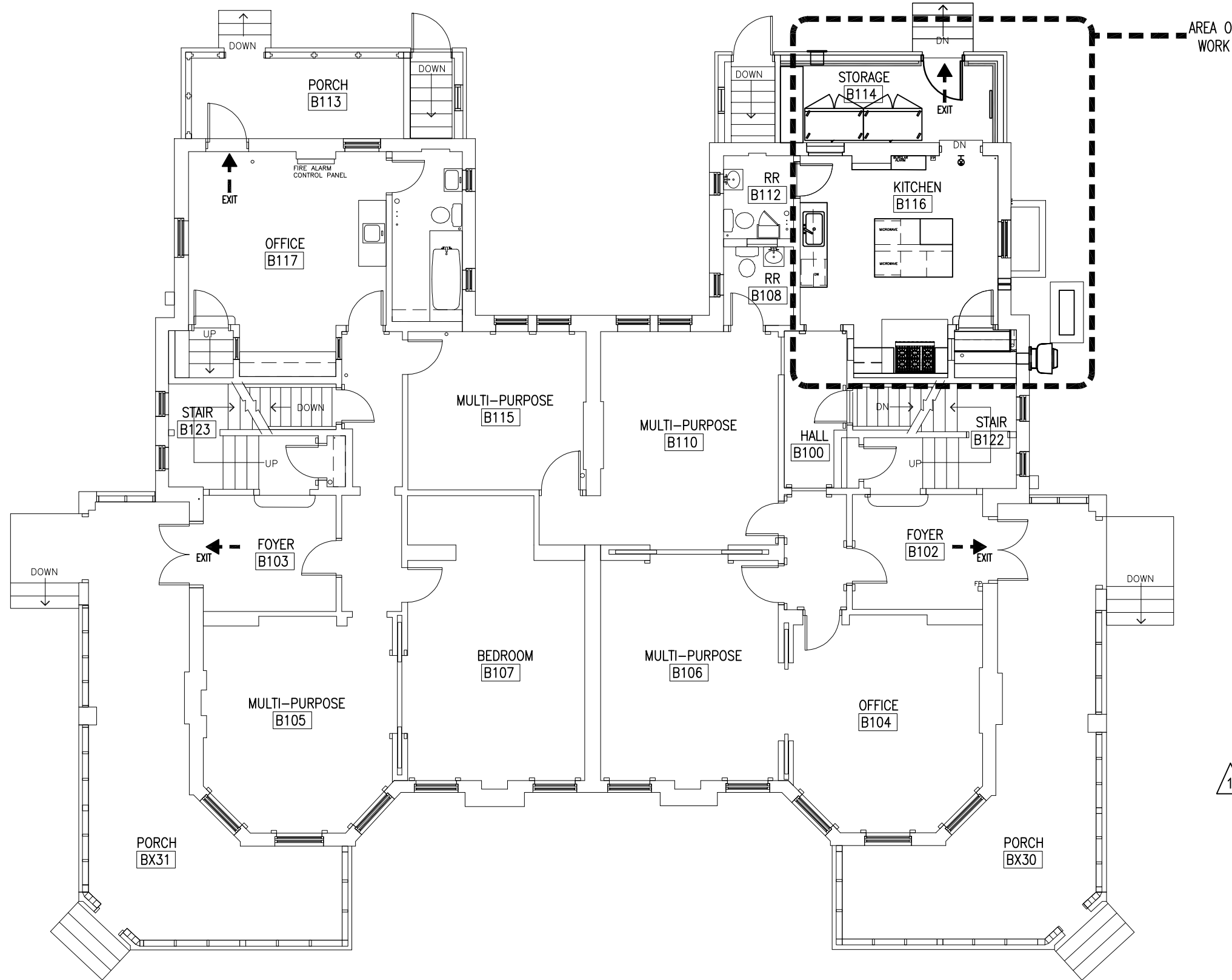
- PERMITS:  
THE GENERAL PERMIT / BUILDING CARD TO BE ISSUED BY THE STATE OF COLORADO.
- MEP PERMITS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ARE ISSUED THROUGHOUT THE STATE. GC IS RESPONSIBLE FOR THE PERMIT AND ALL FEES. ALL MEP INSPECTIONS ARE BY THE STATE.
- FIRE PERMIT AND INSPECTIONS 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 UNFORESSEEN PREVIOUSLY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
4. BUILDING CODE COMPLIANCE:  
PERFORM ALL WORK IN COMPLIANCE WITH APPLICABLE BUILDING CODES AND REGULATIONS. FOR BUILDING CONDITIONS THAT ARE NOT CONSTRUCTED TO MEET CURRENT 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. IF 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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RENO BUILDING 16

3844 & 3854 W. PRINCETON CIR  
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STATE PROJECT NO: 22-106819



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

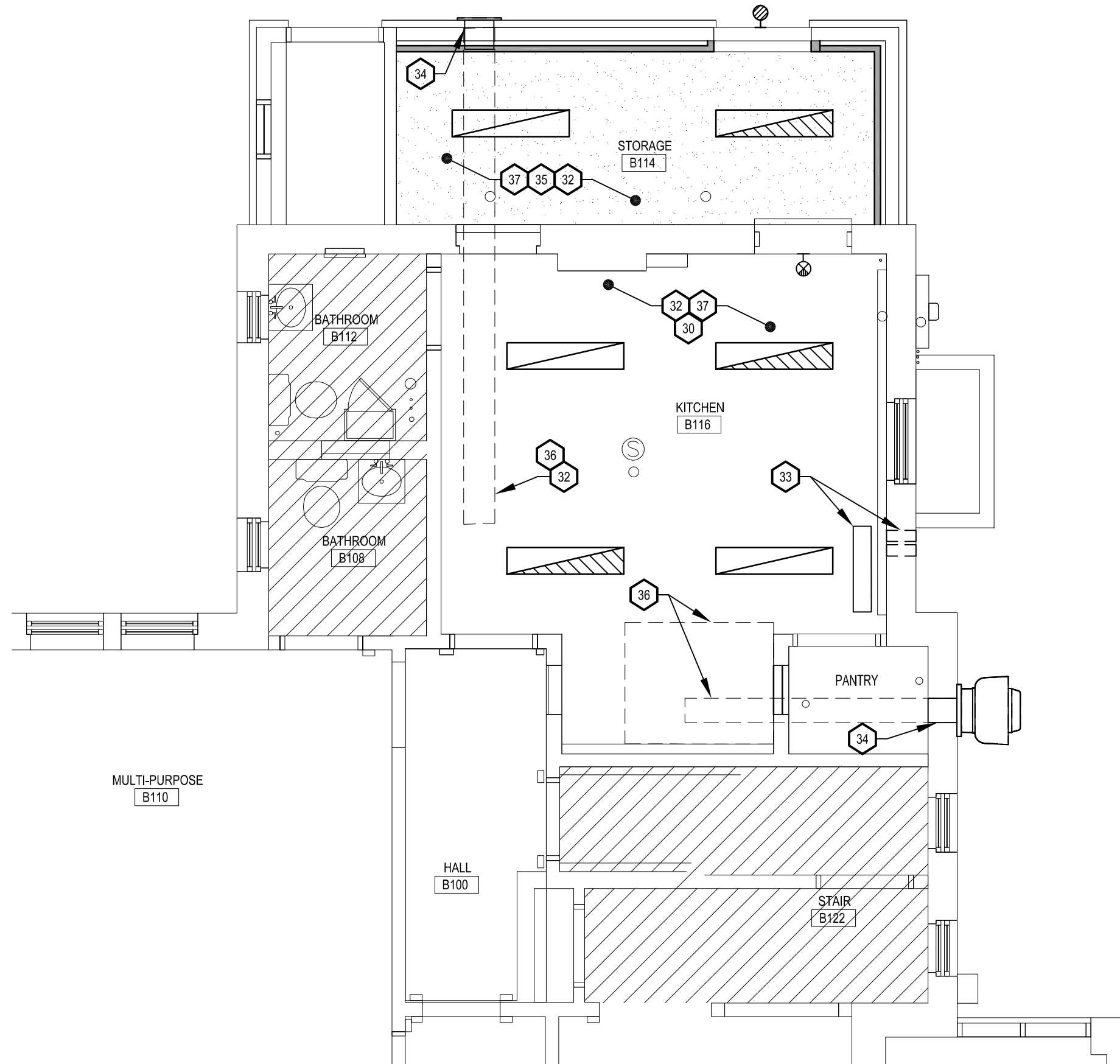
DRAWN BY: KS	CHECKED BY: JM
PROJECT: 2134FL	INITIAL DATE: DEC 2

## GENERAL NOTES, SYMBOLS, ABBREVIATIONS, & CODE INFO

G-002

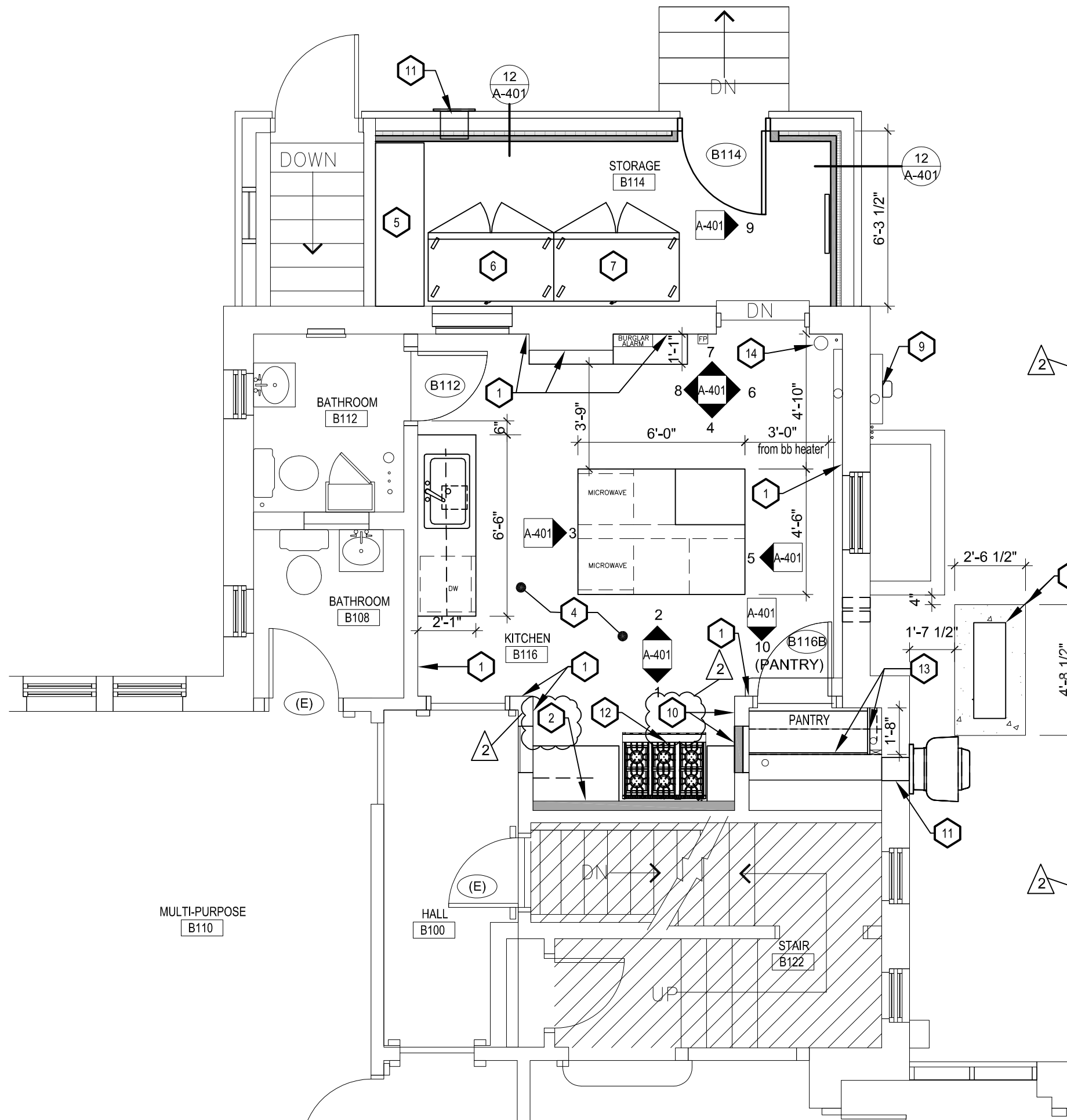
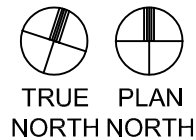


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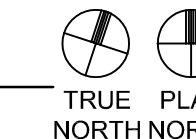
4 FIRST FLOOR RCP

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



2 FIRST FLOOR PLAN

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



### CEILING PLAN KEY NOTES:

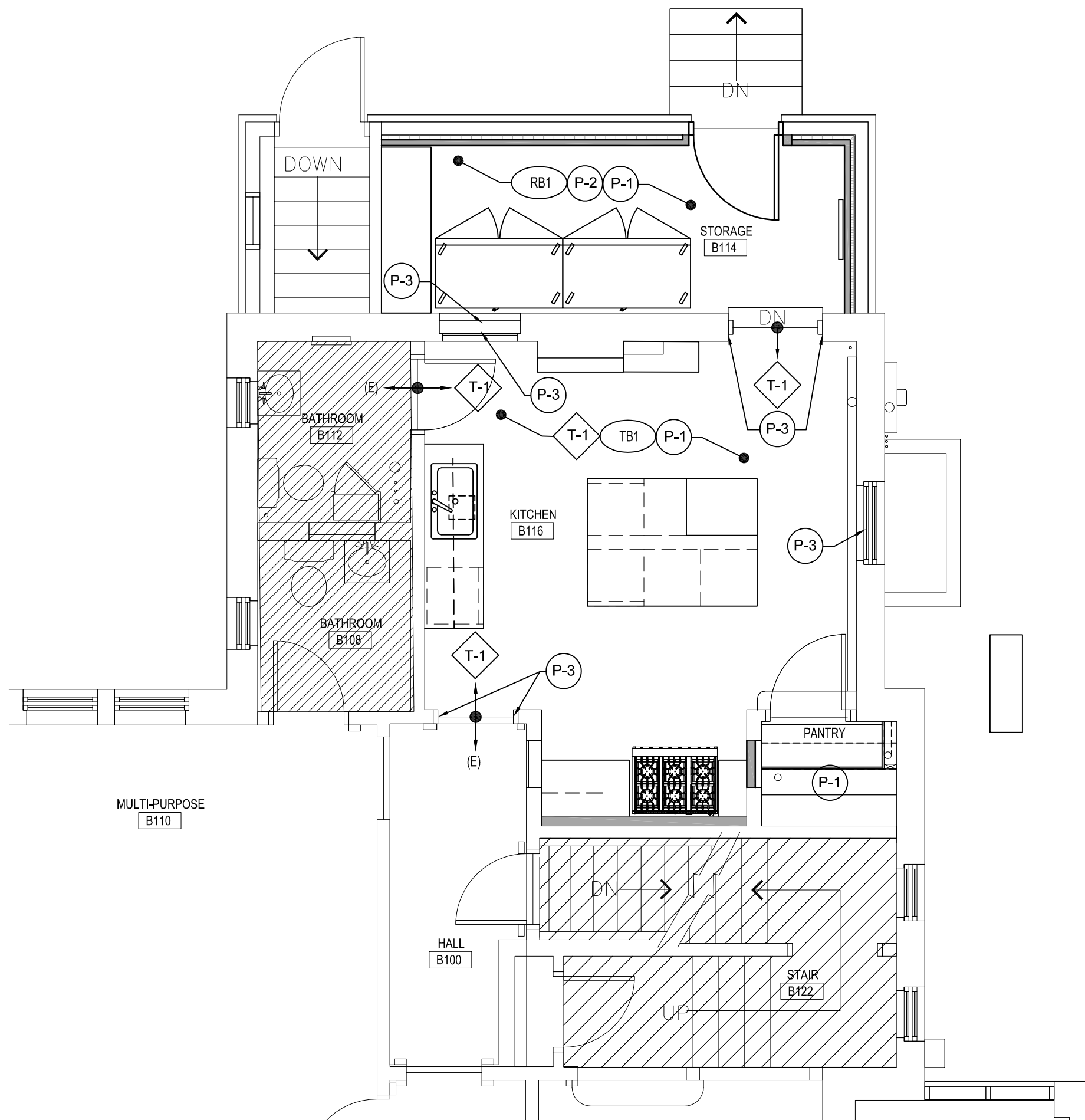
- 30 EXISTING PLASTER CEILING TO REMAIN. PATCH/REPAIR AS REQ'D AFTER DEMOLITION AND/OR NEW WORK, PAINT ENTIRE CEILING.
- 31 NOT USED
- 32 PAINT ALL DUCTWORK, CONDUIT, AND FIRE SPRINKLER PIPE TO MATCH CEILING, RE: MECHANICAL AND ELECTRICAL.
- 33 ADD ALT. 2: FAN COIL UNIT MOUNTED TO WALL WITH BOTTOM OF UNIT @ 7'-7" A.F.F., SEAL CORE DRILLS WHERE PIPING PENETRATES WALL.
- 34 PROVIDE OPENING, SIZE AS REQ'D FOR NEW DUCTWORK & EQUIPMENT, IN EXISTING BRICK OR WOOD FRAMED WALL. RE: MECHANICAL
- 35 PROVIDE AND INSTALL R-49 MIN. AND 5/8" GYP. BD. CEILING TO UNDERSIDE OF (E) ROOF STRUCTURE, RE: WALL SECTION 11/A-401. PAINT.
- 36 EXHAUST HOOD SYSTEM, RE: MECHANICAL & ELECTRICAL.
- 37 NEW LIGHT FIXTURES THIS ENTIRE ROOM, RE: ELECTRICAL.

### FINISHES:

WALL BASE:			
RB1	MANUFACTURER:	JOHNSONITE RUBBER BASE OR EQ.	
	STYLE:	4" COVED	
	COLOR:	TBD	
	LOCATION:	STORAGE B114	
TB1	MANUFACTURER:	TBD	
	COLLECTION:	TBD	
	COLOR:	TBD	
	STYLE:	TBD	
	SIZE:	6X12	
	LOCATION:	KITCHEN B116	
FLOORING:			
T1	MANUFACTURER:	TBD	
	COLLECTION:	TBD	
	COLOR:	TBD	
	STYLE:	TBD	
	SIZE:	24X24	
	LOCATION:	KITCHEN B116, HALL B100	
PAINT:			
P-1	MANUFACTURER:	SHERWIN WILLIAMS	
	TYPE	PRO INDUSTRIAL PRE CATALYZED WATER-BASED EPOXY	
	COLOR:	TBD	
	FINISH:	SEMI GLOSS	
	LOCATION:	WALLS / CEILINGS	
P-2	MANUFACTURER:	SHERWIN WILLIAMS	
	TYPE	ARMOSEAL 8100	
	COLOR:	TBD	
	FINISH:	SATIN	
	LOCATION:	STORAGE B112 (FLOOR PAINT)	
P-3	MANUFACTURER:	MATCH EXISTING	
	TYPE	MATCH EXISTING	
	COLOR:	MATCH EXISTING	
	FINISH:	MATCH EXISTING	
	LOCATION:	INTERIOR WOOD DOOR/FRAME	
P-4	MANUFACTURER:	SHERWIN WILLIAMS	
	TYPE	LATITUDE EXTERIOR ACRYLIC LATEX	
	COLOR:	MATCH ADJACENT EXTERIOR WALL	
	FINISH:	SATIN	
	LOCATION:	H.M. DOOR / FRAME	

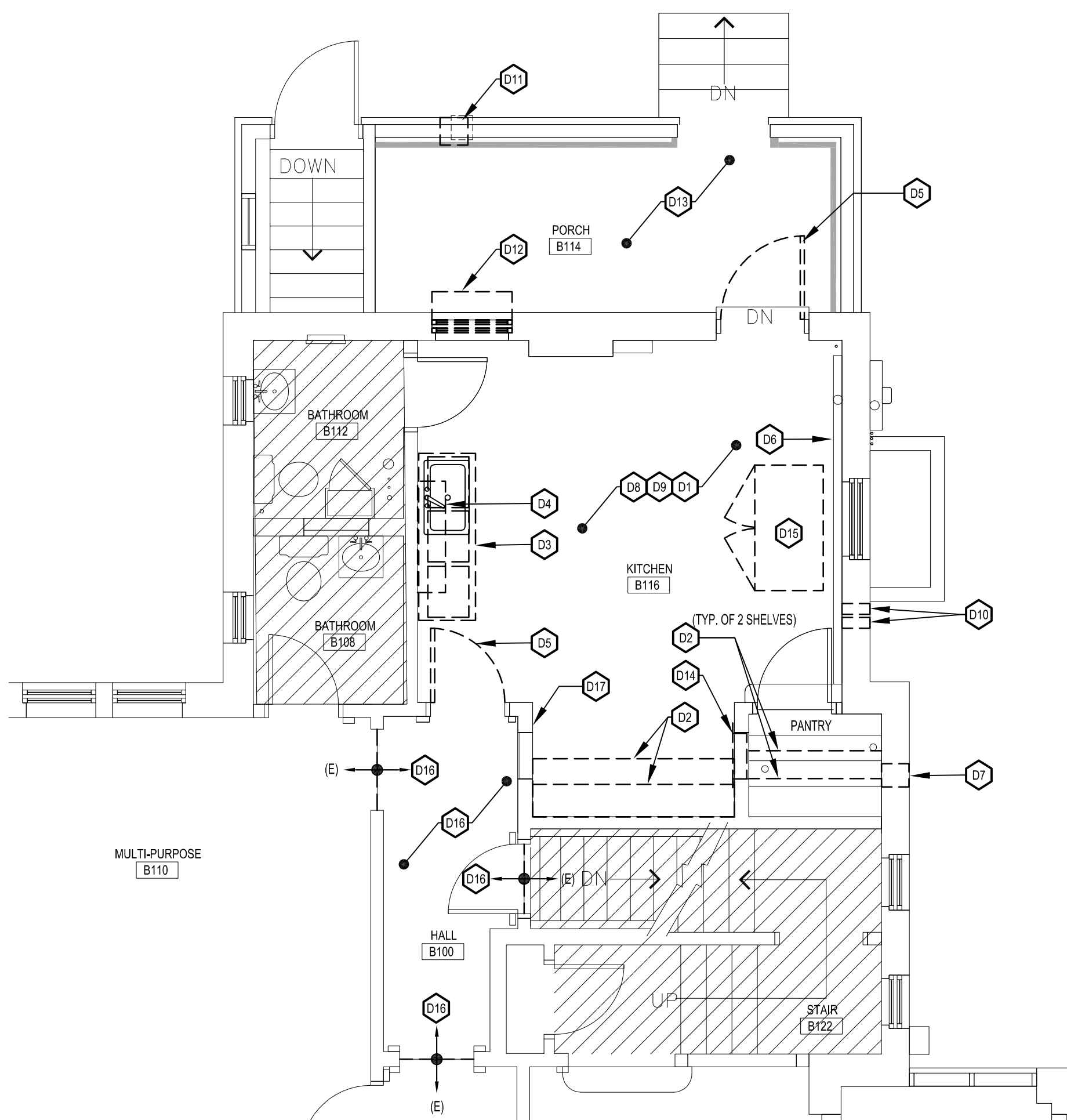
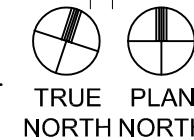
### PLAN KEY NOTES:

- 1 PATCH PLASTER WALL AFTER DEMOLITION AND OR NEW WORK, FINISH AND PAINT ENTIRE WALL, RE: FINISH SCHEDULE.
- 2 3 1/2" METAL STUD WITH TOP AND BOTTOM PLATE @ 16" O.C. WITH 5/8" TYPE 'X' GYP. BD. ON ROOM SIDE OF STUD FULL HEIGHT TO UNDERSIDE OF EXISTING CEILING RE: FINISH PLAN AND ELEVATIONS.
- 3 NOT USED
- 4 PROVIDE & INSTALL PORCELAIN TILE (RE: FINISH SCHEDULE) ON UNMODIFIED THINSET MORTAR ON SCHLUTER DITRA UNCOUPLING MEMBRANE (OR EQ.) ON 1/2" OSB ON (E) WD. STRUCTURAL PLANK FLOOR. PROVIDE NEW TRANSITION STRIP(S) WHERE EXISTING FLOOR FINISH MEETS NEW FLOOR FINISH. RE: FINISH SCHEDULE. FULL TILE UNDER MILLWORK AND APPLIANCES.
- 5 60" X 24" X 88" CHROME WIRE RACK, (4) ADJUSTABLE SHELVES. G.C. SUPPLIED, G.C. INSTALLED.
- 6 TRUE REACH-IN 48", TWO DOOR FREEZER MODEL # T-49-FHC OR EQUAL. SUPPLIED, G.C. INSTALLED.
- 7 TRUE REACH-IN 48", TWO DOOR FRIDGE MODEL # T-49-HC OR EQUAL. SUPPLIED, G.C. INSTALLED.
- 8 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.
- 9 EXISTING ELECTRICAL SERVICE AND METERS TO REMAIN.
- 10 INFILL EXISTING RECESSED NICHE W/ METAL STUDS, ALIGN GYP. BD. WITH EXISTING PLASTER WALL FINISH. FINISH AND PAINT ENTIRE WALL.
- 11 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.
- 13 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.



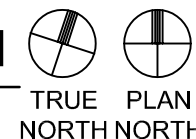
3 FIRST FLOOR FINISH PLAN

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



1 FIRST FLOOR DEMO PLAN

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



### GENERAL NOTES:

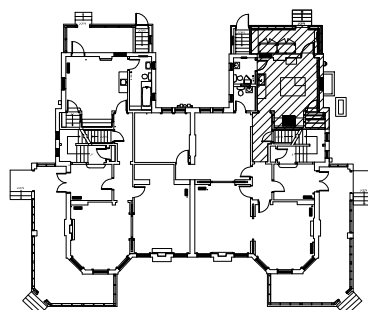
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. ANY DISCREPANCIES IN DRAWINGS AND/OR EXISTING CONDITIONS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
- THE ARCHITECT DISCLAIMS ANY RESPONSIBILITIES AND/OR KNOWLEDGE OF ASBESTOS. THE OWNER ACCEPTS ALL RESPONSIBILITY FOR REMOVAL 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.
- ALL DIMENSIONS ARE FROM FACE OF FINISHED WALLS OR CENTERLINE OF GRID UNLESS NOTED OTHERWISE.
- ALL WALLS ARE TO BE WALL TYPE: U.N.O. SEE SHEET A-601 FOR WALL TYPES.
- SEE ELECTRICAL DRAWINGS FOR ALL ELECTRICAL NOTES AND FIRE SAFETY REQUIREMENTS.
- ALL ROUGH AND FINISH CONSTRUCTION SHALL BE IN COMPLIANCE WITH GOVERNING CODES AND REGULATIONS AS A MINIMUM STANDARD.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PHYSICALLY DISCONNECT ALL DISABLED DEVICES AND PULL BACK TO PANEL..
- PLUMBING FIXTURE DIMENSIONS ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF FIXTURE.

### DEMO KEY NOTES:

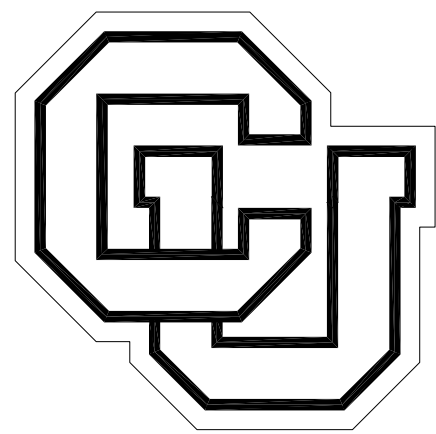
- D1 REMOVE EXISTING VCT & ASSOCIATED SUB-FLOOR ASSEMBLY COMPLETE DOWN TO ORIGINAL STRUCTURAL WD. PLANK FLOOR INCLUDING TRANSITION STRIP(S). REMOVE (E) RUBBER WALL BASE AND WOOD BASE BOARD THIS ENTIRE ROOM. PATCH WALL WHERE BASEBOARDS WERE REMOVED.
- D2 REMOVE EXISTING CASEWORK/SHELVING ASSEMBLY COMPLETE.
- D3 REMOVE EXISTING 3-COMPARTMENT SINK ASSEMBLY COMPLETE, RE: PLUMBING. EXISTING FLOOR SINK BELOW TO REMAIN.
- D4 REMOVE WALL CABINET ASSEMBLY COMPLETE INCLUDING ELECTRICAL, RE: ELECTRICAL.
- D5 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.
- D7 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 WINDOW 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:

- NO WORK IN THIS AREA
- EXISTING CONSTRUCTION (EXTERIOR / INTERIOR)
- NEW WALL CONSTRUCTION
- DEMO ITEM
- EXISTING DOOR TO REMAIN
- NEW DOOR



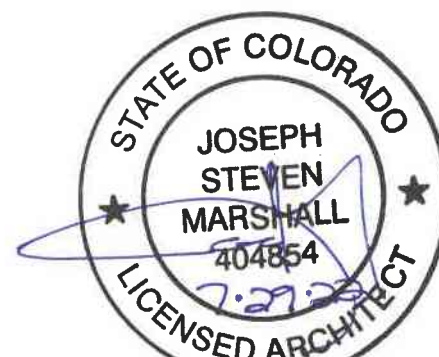
KEY PLAN



UNIVERSITY OF  
COLORADO  
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ARTS FT. LOGAN  
RENO BUILDING 16

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



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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
7-29-22	CODE REVIEW COMMENTS

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

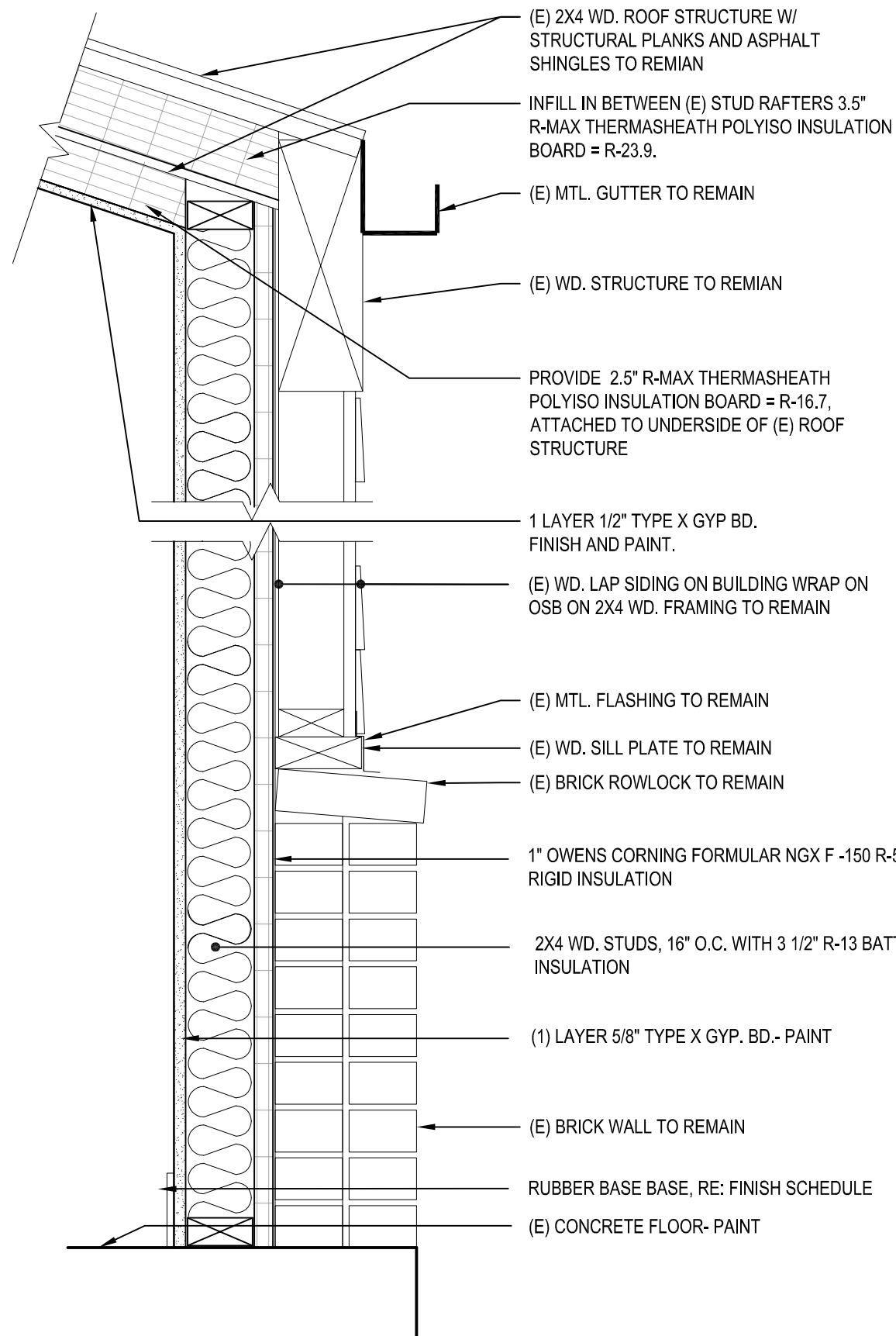
FIRST FLOOR DEMO PLAN, PLAN,  
FINISH PLAN, & RCP

A-101

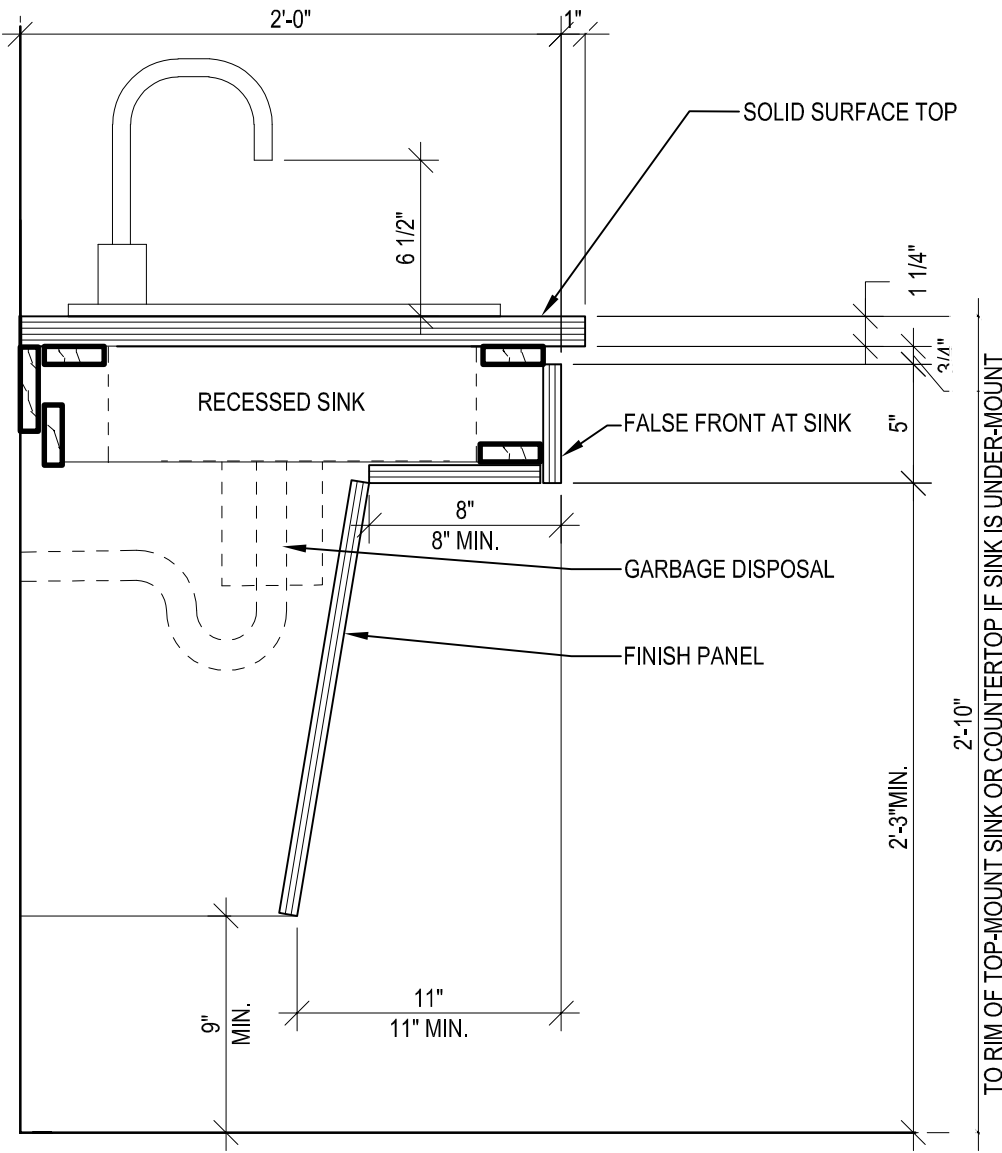


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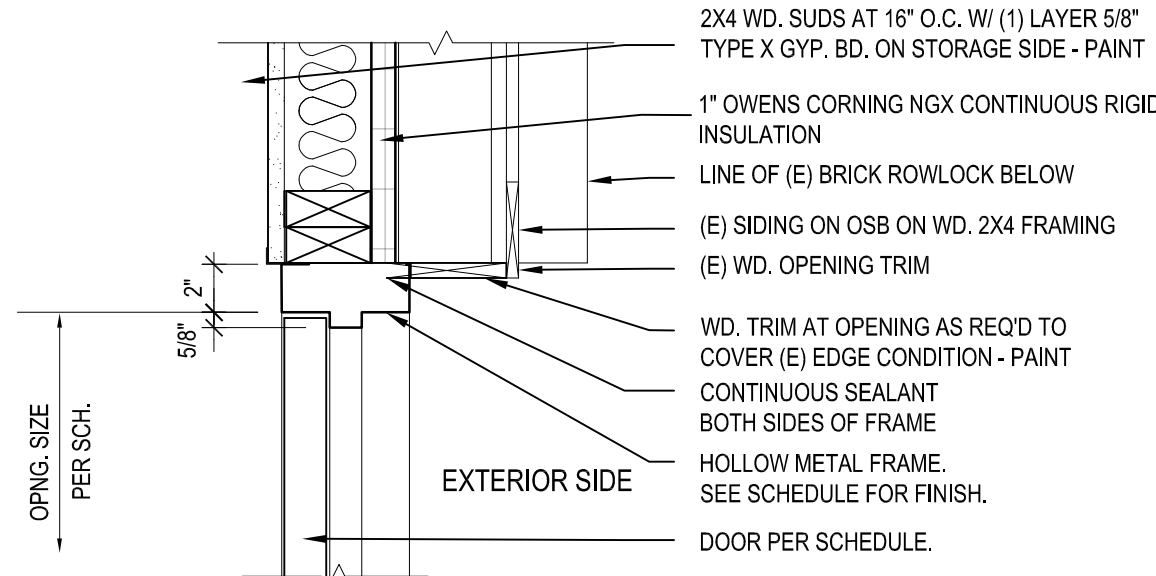
PER 2015 IRC TABLE R802.5.1(5) RAFTER SPANS FOR COMMON LUMBER SPECIES, SNOW LOAD = 30PSF, CEILING ATTACHED TO RAFTERS: HEM FIR #2 - 2X4 @ 16" O.C DEAD LOAD = 20PSF ALLOWABLE SPAN = 7'-2" (EXISTING SPAN = 6'-7" NO CHANGE) EXISTING DEAD LOAD CALCULATION = 6.87PSF NEW ADDED DEAD LOADING = (INSUL.-1.13PSF + GYP.-3.13PSF) = 4.26PSF TOTAL CALCULATED DEAD LOADING = 11.13PSF



11 WALL SECTION  
SCALE: 1 1/2"=1'-0" RATING: NON-RATED



13 BASE CABINET W/ SINK - ACCESSIBLE  
SCALE: 1 1/2"=1'-0"



12 HM DOOR JAMB FRAME DETAIL  
SCALE: 1 1/2"=1'-0"

## 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	12A-401
B112	RESTROOM	3'-0"x7'-0"	EXISTING	(E)	P3	(E)	P3	NONE	(E)	-
B116B	PANTRY	3'-0"x7'-0"	EXISTING	(E)	P3	(E)	P3	NONE	(E)	-

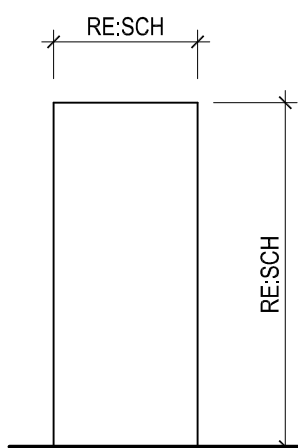
## DOOR NOTES:

- 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

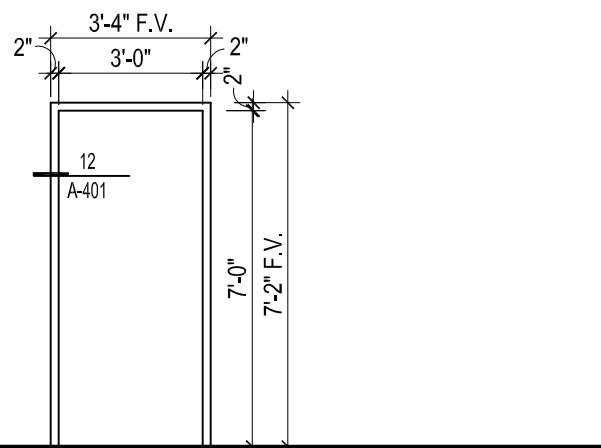
SET 01  
DOORS 114B  
3 HINGES FB817B-NRP  
1 CLOSER 4040XP  
1 ENTRY LOCK SET FALCON T SERIES  
1 THRESHOLD 566 ALUM. ZERO  
1 SWEEP 39 BK ZERO  
1 GASKETING 1885 BK ZERO  
1 GASKETING 475 BK ZERO  
1 KICK PLATE

## DOOR TYPES:

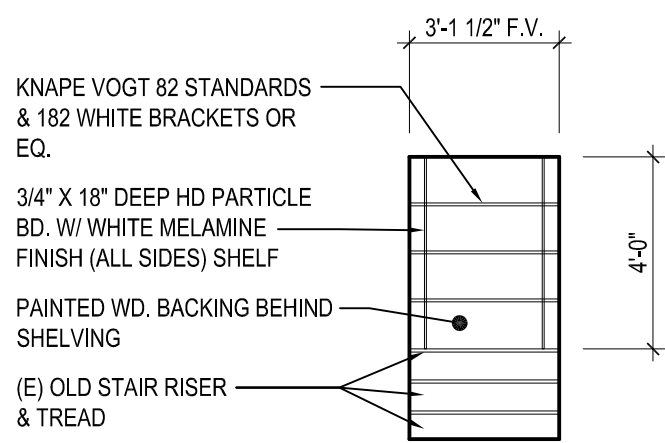


DOOR TYPE A:  
HOLLOW METAL  
INSULATED

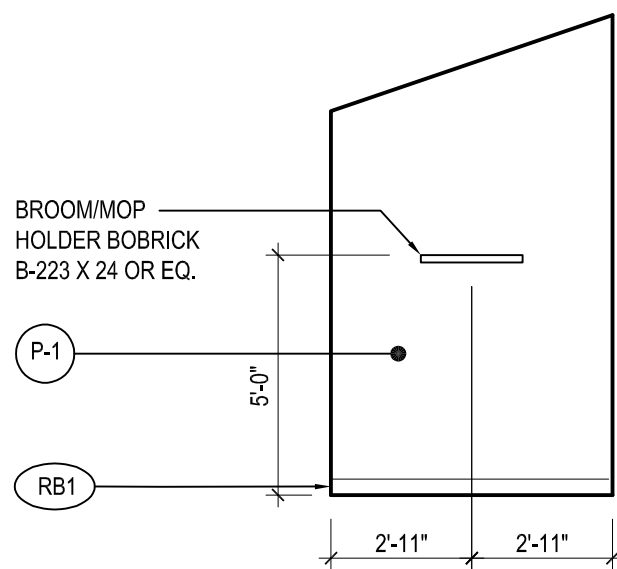
## FRAME TYPES:



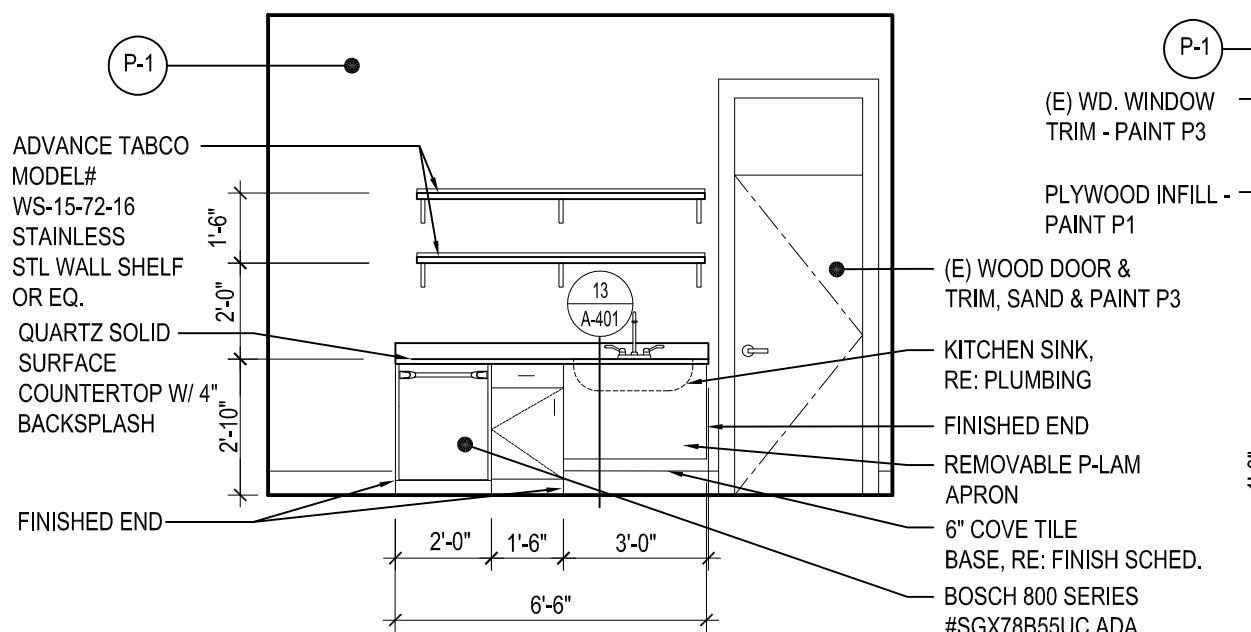
FRAME TYPE 1:  
HOLLOW METAL



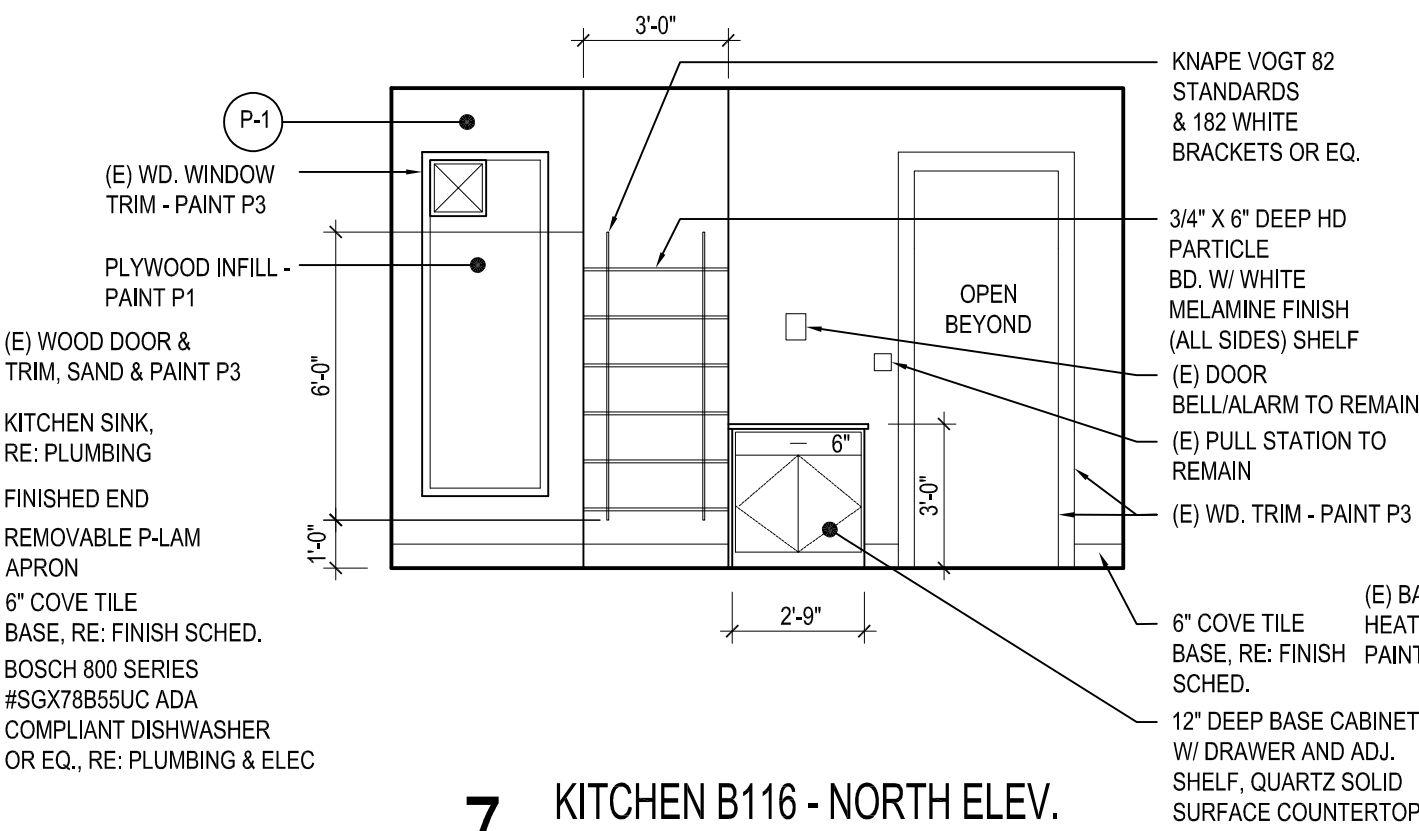
10 INTERIOR PANTRY ELEVATION  
1/4"=1'-0"



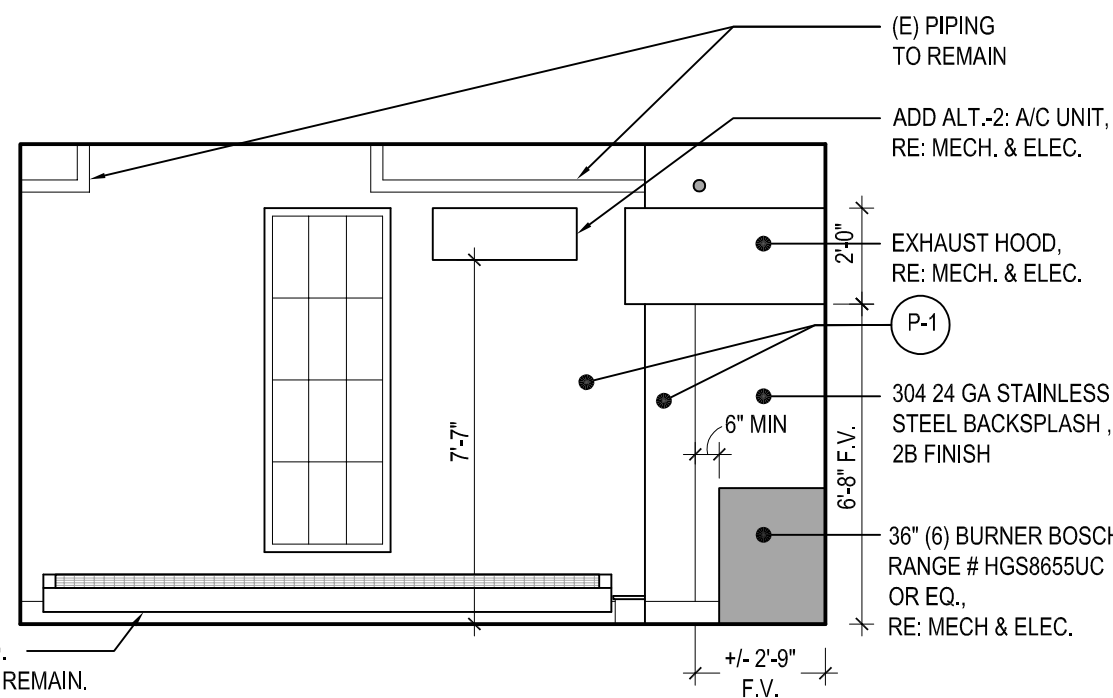
9 PORCH B114 - EAST ELEV.  
1/4"=1'-0"



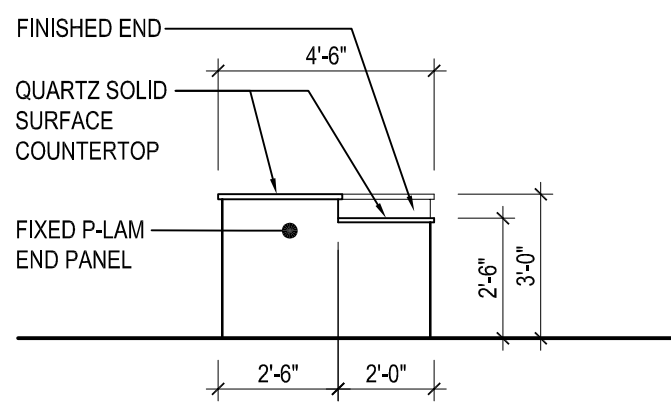
8 KITCHEN B116 - WEST ELEV.  
1/4"=1'-0"



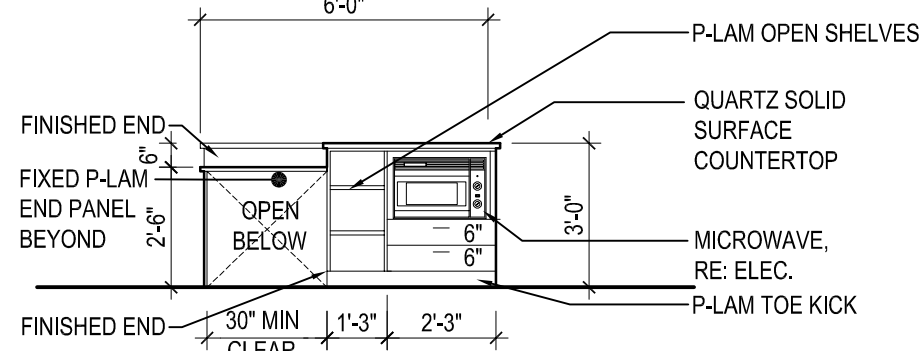
7 KITCHEN B116 - NORTH ELEV.  
1/4"=1'-0"



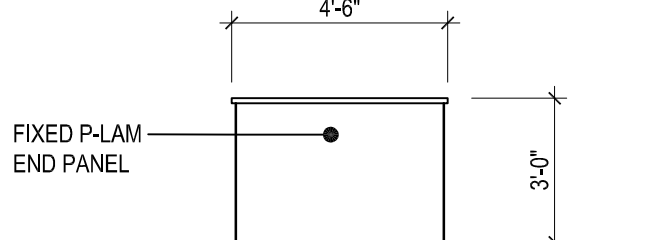
6 KITCHEN B116 - EAST ELEV.  
1/4"=1'-0"



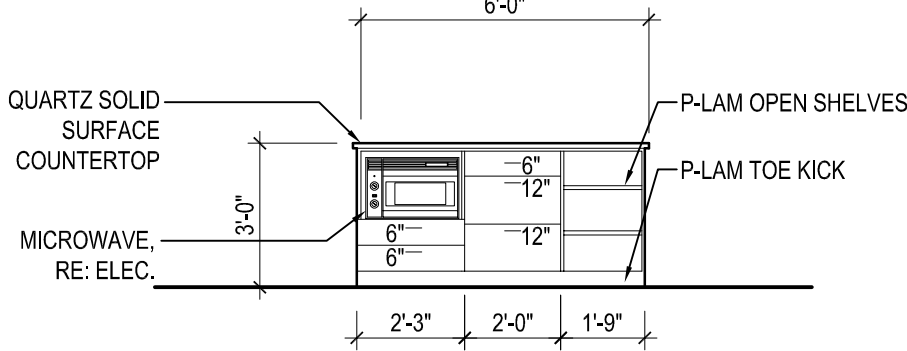
5 KITCHEN B116 - ISLAND ELEV.  
1/4"=1'-0"



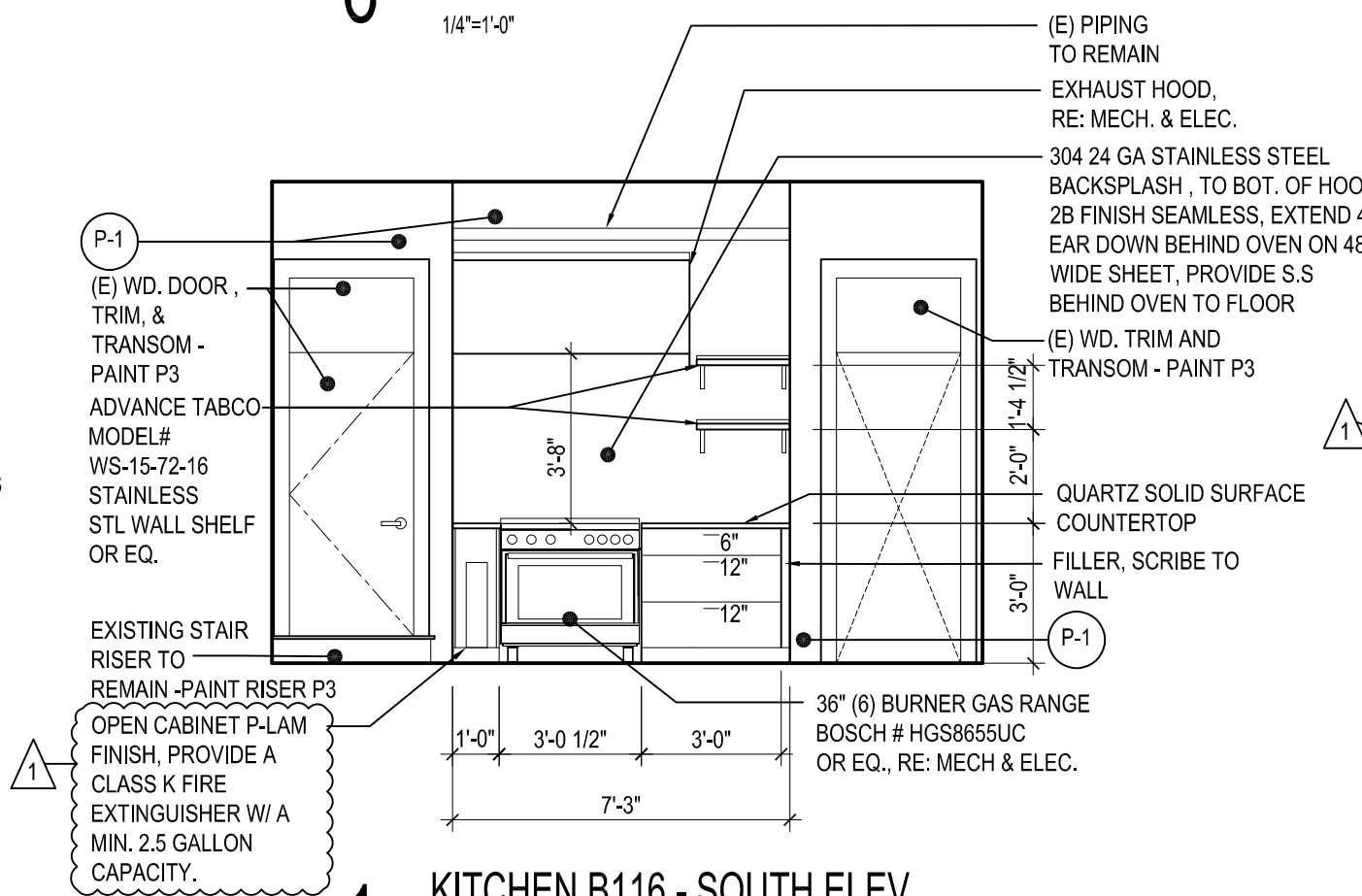
4 KITCHEN B116 - ISLAND ELEV.  
1/4"=1'-0"



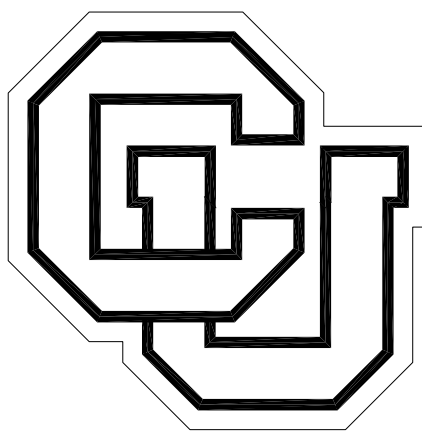
3 KITCHEN B116 - ISLAND ELEV.  
1/4"=1'-0"



2 KITCHEN B116 - ISLAND ELEV.  
1/4"=1'-0"



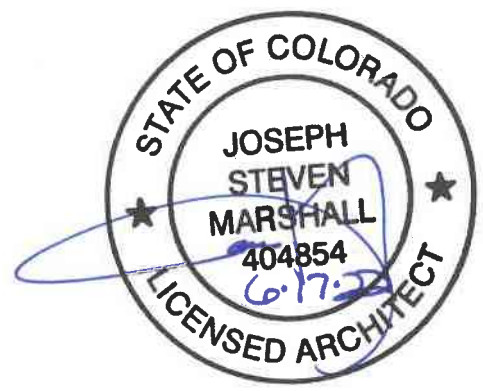
1 KITCHEN B116 - SOUTH ELEV.  
1/4"=1'-0"



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6-17-22	CODE REVIEW COMMENTS

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

INTERIOR ELEVATIONS,  
DOOR SCHEDULE, & DETAILS

A-401



S:\BGP\PROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLDG\16 KITCHEN RENOVATION\CAD\BGCCE CAD\9418.18\_M-000.DWG

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD 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 THE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING 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.

b. FAILURE TO REQUEST CLARIFICATION DURING THE BID 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 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 DURING CONSTRUCTION. CONTINUED OPERATION OF THE 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 AROUND EMPLOYEES, FURNITURE, EQUIPMENT, ETC.; 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 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.

9. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION 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.

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.

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.

19. MAKE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT. 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.

21. COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, ELECTRICAL, LANDSCAPING, AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION.

22. CAREFULLY VERIFY ELECTRICAL SERVICE VOLTAGE AND PHASE AVAILABLE.

23. MOUNT ALL STATS AT 48" AFF IN 'ACCESSIBLE' AREAS, 4'6" AFF IN OTHER AREAS, UNLESS NOTED OTHERWISE. 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
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	REFRIGIGICE 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"

NOTES:

1. 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.
4. WASTE AND VENT SIZES SHOWN ABOVE APPLY TO INDIVIDUAL VENTING ONLY. 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.
8. REFER TO APPLIANCE SCHEDULES (BY OTHERS) FOR ADDITIONAL PLUMBING FIXTURE CONNECTIONS SUCH AS INSTA-HOTS, COFFEE MAKERS, AND GARBAGE DISPOSALS.
9. PROVIDE ICE MAKER BOX ROUGH IN W/ 1/2"CW CONNECTION FOR ALL REFRIGERATOR LOCATIONS.

PIPING SYMBOLS	
	90° ELBOW DN
	90° ELBOW UP
	TEE DOWN
	TEE UP
	BUTTERFLY VALVE
	SHUT OFF (BALL, GATE, BUTTERFLY)
	GLOBE VALVE
	CHECK VALVE
	FLOW CONTROL VALVE
	BALL VALVE
	PLUG OR BALANCING VALVE
	FLOW BALANCING VALVE
	PLUG VALVE IN RISER
	GATE OR GLOBE VALVE IN RISER
	DRAIN VALVE W/ HOSE END
	TEMPERATURE CONTROL VALVE (2-WAY)
	TEMPERATURE CONTROL VALVE (3-WAY)
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	VENTURIFLOW INDICATOR
	PUMP & EQUIPMENT CONNECTOR
	PIPE UNION
	DOUBLE CHECK BACKFLOW PREVENTER
	PIPE ANCHOR
	PIPE EXPANSION JOINT
	FLEXIBLE CONNECTOR
	SAFETY RELIEF VALVE
	AIR VENT
	PRESSURE - TEMP. TAP
	PRESSURE GAUGE W/ PIG TAIL & COCK
	THERMOMETER
	VACUUM BREAKER
	STRAINER W/ BLOW-OFF VALVE
	SHOCK ABSORBER
	FLOW SWITCH
	HORIZONTAL CLEANOUT
	VERTICAL CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	ROOF DRAIN
	DECK/ROOF DRAIN ABOVE
	TEMPERATURE CONTROLLER OR SENSOR
	HOSE BIBB
	WALL HYDRANT

PROJECT ALTITUDE

5450' ABOVE SEA LEVEL

MECHANICAL SYSTEMS LEGEND

EQUIPMENT ABBREVIATIONS	
AS	AIR SEPARATOR
B	BOILER (HOT WATER)
BB	BASE BOARD
BT	BUFFER TANK
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
KEF	KITCHEN EXHAUST FAN
MAU	MAKE-UP AIR UNIT
MV	MIXING VALVE
P	PUMP
RF	RETURN (OR RELIEF) AIR FAN
SF	SUPPLY FAN
ST	STORAGE TANK
TMV	THERMOSTATIC MIXING VALVE
UH	UNIT HEATER
WH	WATER HEATER

PIPING DESIGNATIONS

HYDRONIC PIPING

- HEATING WATER SUPPLY
- HEATING WATER RETURN

PLUMBING PIPING

- NATURAL GAS
- MEDIUM PRESSURE GAS
- DRAIN PIPE
- REFRIGERANT SUCTION
- REFRIGERANT LIQUID
- DOMESTIC WATER
- DOMESTIC HOT WATER
- DHW RECIRCULATION
- FIRE LINE
- WASTE PIPE
- PLUMBING VENT PIPE
- GREASE WASTE PIPE
- GREASE VENT

PLAN SYMBOLS

- CARBON DIOXIDE SENSOR
- CARBON MONOXIDE SENSOR
- HUMIDISTAT
- REMOTE TEMPERATURE SENSOR
- THERMOSTAT
- DUCT STATIC PRESSURE SENSOR
- ROOM PRESSURE SENSOR
- EMERGENCY POWER OFF SWITCH
- PLUMBING/HVAC RISER
- DIAGRAM CONTINUATION REFERENCE
- SECTION CUT LETTER/SHEET SHOWN ON
- POINT OF DISCONNECTION
- POINT OF NEW CONNECTION
- ACCESS PANEL

NOTES

1. ALL SYMBOLS, ABBREVIATIONS, AND DESIGNATIONS ON LEGEND SHEET ARE NOT NECESSARILY USED ON THIS PROJECT.
2. THIS DRAWING SET CONSISTS OF DATA GENERATED, IN PART, BY OTHER PARTIES. NOT ALL SYMBOLOGIES AND NOTATION CONVENTIONS OCCURRING IN THIS DRAWING SET ARE NECESSARILY DEFINED ON THESE LEGENDS. CONSULT THE ENGINEER IN THE EVENT SYMBOLOGY OR NOTATION INTERPRETATION IS REQUIRED.

REFERENCE SAMPLE

- RE: B/M400 FFI
- FFI = FOR FURTHER INFORMATION
- FCT = FOR CONTINUATION
- SHEET NUMBER
- DRAWING NUMBER OR DIAGRAM LETTER
- REFER TO:

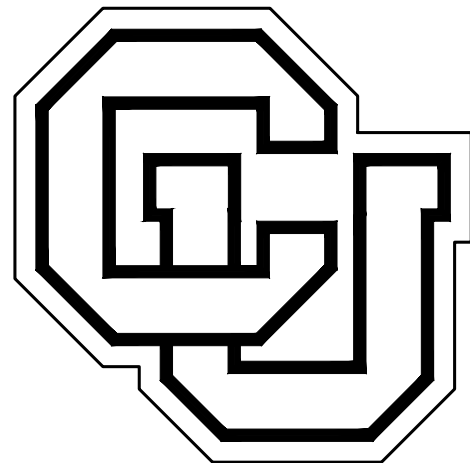
PLAN ABBREVIATIONS	
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AUTO	AUTOMATIC
BCS	BUILDING CONTROL SYSTEM
BDD	BACK DRAFT DAMPER
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
B/N	BETWEEN
C	COMMON (OR CLOSED)
CA	COMBUSTION AIR
CC	CONTROLS CONTRACTOR
COBBC	CONTINUATION DESIGN BUILD BY CONTRACTOR
CFM	CUBIC FEET PER MINUTE (AIR FLOW RATE)
CIP	CAST IN PLACE
CLG	CEILING (OR COOLING)
CO	CLEANOUT
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECT (OR CONNECTION)
CONTRR	CONTRACTOR
COTG	CLEANOUT TO GRADE
CW	COLD WATER
DHR	DOMESTIC HOT WATER RECIRC
DHW	DOMESTIC HOT WATER
DN	DOWN
DW	DOMESTIC WATER
DWR	DOMESTIC HOT WATER RECIRC
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(F)	FUTURE
FA	FREE AREA
FBO	FURNISHED BY OWNER
FCO	FLOOR CLEANOUT
FCT	FOR CONTINUATION
FD	FIRE DAMPER
FFI	FOR FURTHER INFORMATION
FSD	COMBINATION FIRE/SMOKE DAMPER
GC	GENERAL CONTRACTOR
GHX	GROUND HEAT EXCHANGER
GPM	GALLONS PER MINUTE (WATER FLOW RATE)
HP	HORSEPOWER
HW	HOT WATER
HWC	HOT WATER RECIRC
ILO	IN LIEU OF
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FOOT
LWT	LEAVING WATER TEMPERATURE
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MOD	MOTOR OPERATED DAMPER
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OBD	OPPOSED BLADE VOLUME DAMPER
OC	ON CENTER
OSA	OUTSIDE AIR
RA	RETURN AIR
RE:	REFER TO:
REQ'D	REQUIRED
REQ'MTS	REQUIREMENTS
SA	SUPPLY AIR
SF	SQUARE FOOT (FEET)
SP	STATIC PRESSURE
SS	STAINLESS STEEL
TA	THROW-AWAY (TRANSFER AIR)
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O	WITHOUT
WCO	WALL CLEANOUT
WRT	WITH REGARD TO
W/C	WATER COOLED
VTR	VENT THRU ROOF
XFR	TRANSFER
Ø	DIAMETER

DUCTWORK LEGEND		
SINGLE LINE	DESCRIPTION	DOUBLE LINE
	90° ELBOW DOWN (ROUND DUCT ONLY)	
	ROUND 90° ELBOW UP (ROUND DUCT ONLY)	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE) D = DROP R = RISE	
	ROUND RADIUS ELBOW	
	90° STRAIGHT TEE	
	90° CONICAL TEE	
	45° BRANCH	
	45° CONICAL TEE	
	SIZE OR SHAPE TRANSITION	
	ROUND FLEXIBLE DUCT	
	90° ELBOW DN (NEGATIVE PRESSURE)	
	90° ELBOW DN (POSITIVE PRESSURE)	
	90° ELBOW UP (NEGATIVE PRESSURE)	
	90° ELBOW UP (POSITIVE PRESSURE)	
	90° RADIUS ELBOW	
	90° RADIUS ELBOW W/TURNING VANES	
	SQUARE DUCT SPLIT	
	ROUND DUCT SPLIT	
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPLITTER DAMPER	
	POSITIVE PRESSURE RISER, TYPICALLY SUPPLY	
	NEGATIVE PRESSURE RISER, TYPICALLY RETURN, EXHAUST OR OUTSIDE AIR	
	MANUAL VOLUME DAMPER, SINGLE BLADE DAMPER (SBD) FOR ROUND OR <10" TALL, OPPOSED BLADE DAMPER (OBD) >10" TALL	
	BACKDRAFT DAMPER	
	DUCT SIZE: FIRST NUMBER IS PLAN WIDTH, SECOND NUMBER IS DEPTH.	

AIR DEVICE DESIGNATION KEY

- TYPE OF AIR DEVICE  
RE: GRD SCHEDULE.
- # = AIR QUANTITY (CFM)
- CA = COMBUSTION AIR
- EXH = EXHAUST
- OSA = OUTSIDE AIR
- RA = RETURN
- XFR = TRANSFER
- SIZE (INCHES) OR MINIMUM FREE AREA REQUIRED IN SQUARE FEET.
- INDICATES AIR INLET DEVICE.

NOTE:  
FOR STANDARD MODULE SIZE REGISTERS, SIZE GIVEN IS NECK SIZE. REFER TO GRD SCHEDULE FOR MODULE SIZE.



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STATE PROJECT NO: 22-106819



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

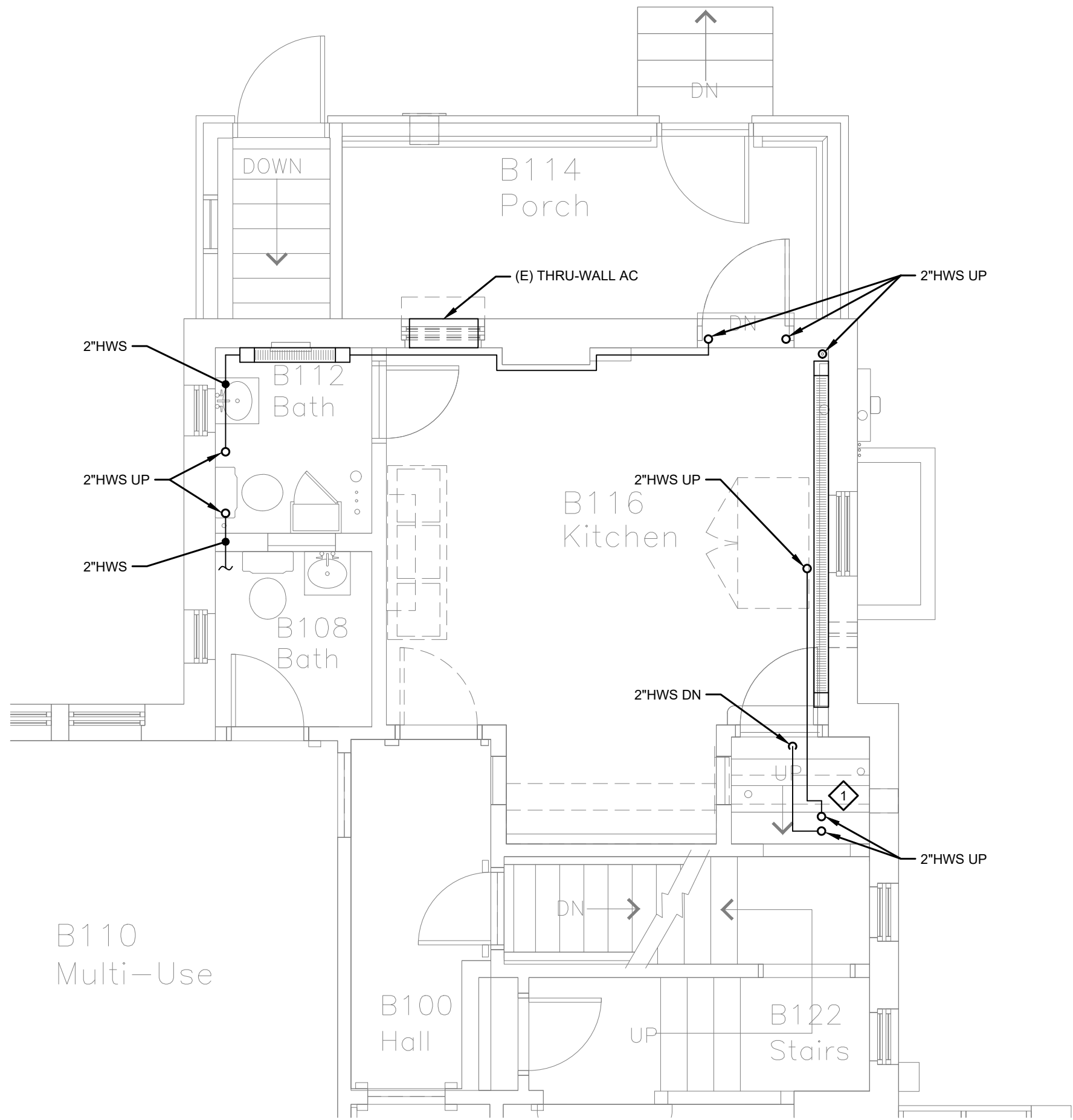
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MECHANICAL COVER SHEET

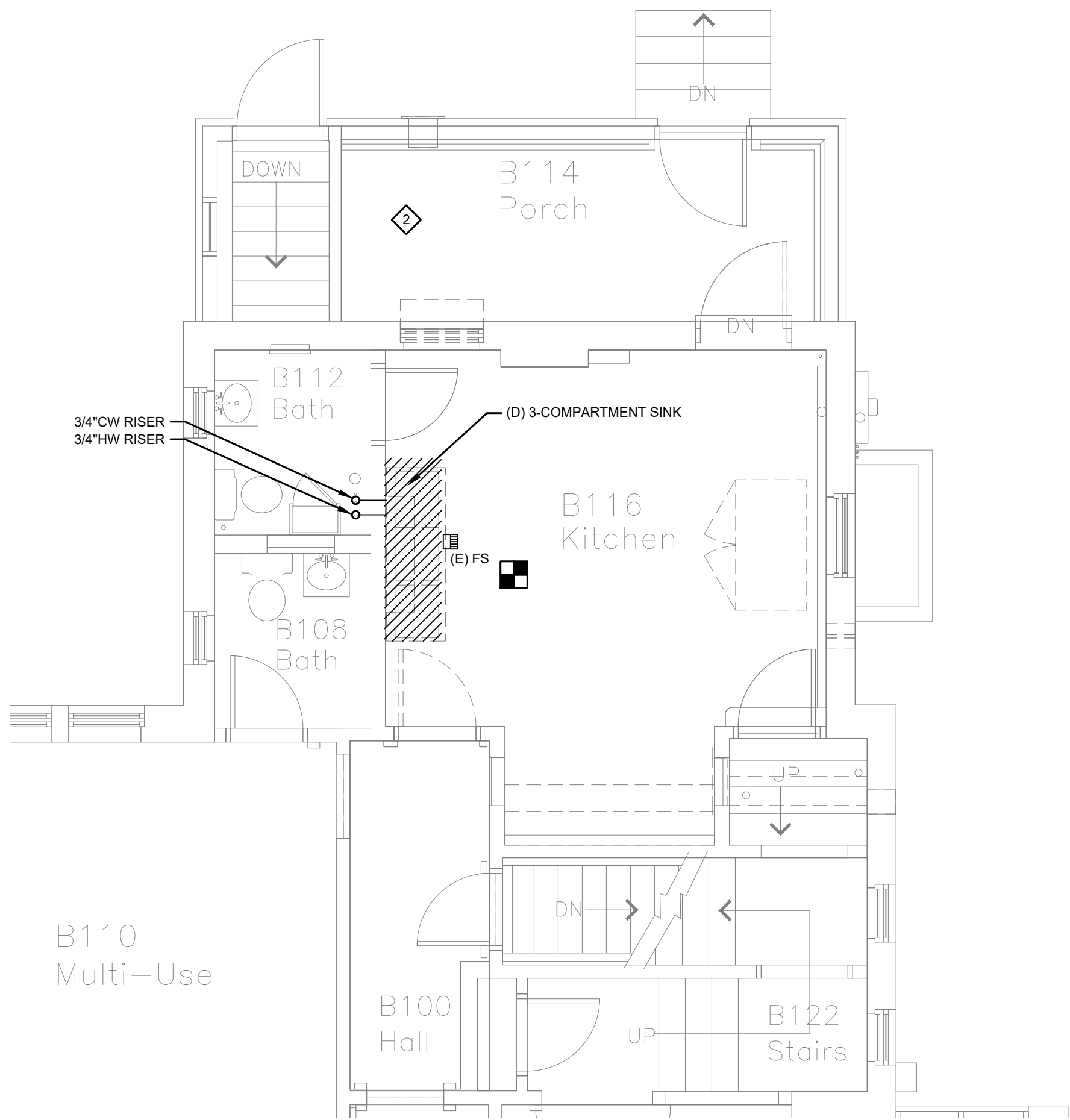
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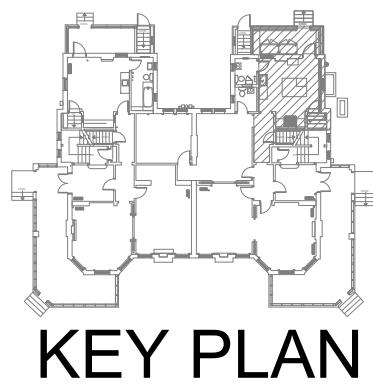
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**1 FIRST FLOOR MECHANICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**2 FIRST FLOOR PLUMBING DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

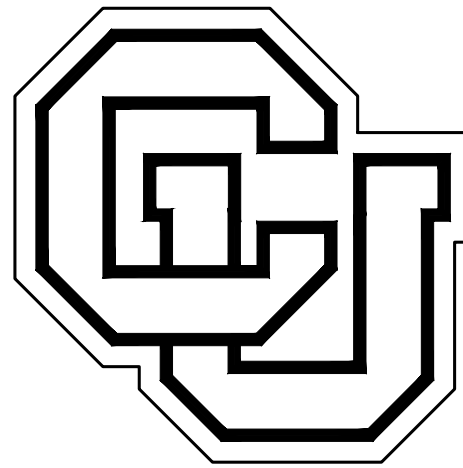


#### DEMOLITION NOTES:

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.
2. 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.
6. 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:

1. 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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MECHANICAL DEMOLITION PLAN

MD-101



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ADD ALT 2


MATCH SPLIT SYSTEM SCHEDULE																				
INDOOR FAN COIL UNIT							OUTDOOR CONDENSING UNIT										ACCESSORIES	REMARKS		
MARK	CFM	AIR CONDITIONS			FILTER	OPER. WEIGHT (LBS)	MANUFACTURER* & MODEL #	MARK	DUTY CAPACITY (TONS)	AMBIENT TEMP. DB (°F)	LOW AMB. CONTROL DB (°F)	ELECTRICAL				OPER. WEIGHT (LBS.)			SEER	MANUFACTURER* & MODEL #
		E.A.T. DB (°F)	L.A.T. DB (°F)	SENSIBLE MBH								MCA	VOLT	PHASE	MOCP					
FC-1	600	75	52	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
ALTERNATE MANUFACTURERS:																				
* CARRIER, TRANE, DAIKIN, I.G.MITSUBISHI																				
A: INDOOR UNIT POWER PROVIDED BY OUTDOOR UNIT.																				




FAN SCHEDULE																								
MARK	SERVICE	TYPE	FAN						SOUND POWER (dB re. 10-12 WATT)								MOTOR			VFD	OPER. WEIGHT (LBS)	MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
			CFM	DRIVE	RPM	SONES	ESP										BHP	MHP (WATT)	VOLT					
							@ S.L. (IN WC)	@ ALT (IN WC)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ								
SF-1	KEH MUA	INLINE	800	BELT	1395	9	1	0.8	73	70	64	63	64	59	52	0.24	1/3	120	1	NO	100	COOK 150SQN-HP	-	B
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
ALTERNATE MANUFACTURERS:																								
*		COOK, GREENHECK, TWIN CITY, PENN, BROAN, PANASONIC																						
A:		PROVIDE DIRECT DRIVE FANS WITH FAN SPEED CONTROL.																						
B:		NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.																						

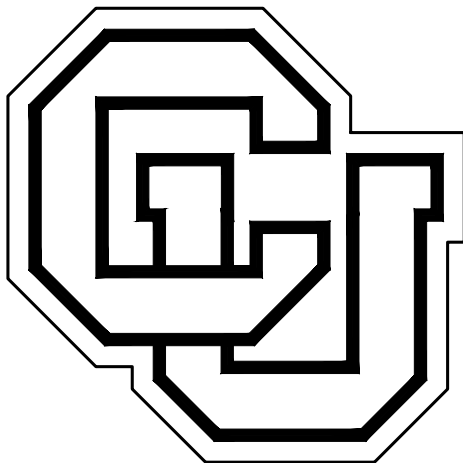
ADD ALT 1

DUCT HEATING COIL SCHEDULE (HYDRONIC)																
MARK	SERVICE	TYPE	COIL DIMENSION (IN)	CFM	HEATING COIL									MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
					AIR CONDITIONS			WATER CONDITIONS			COIL					
					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.)			
DHC-1	KITCHEN MUA	INLINE	18x14	800	0	50	36	180	140	2	WATER	10	0.5	MODINE 3WSS1406A	THERMOSTAT	A
ALTERNATE MANUFACTURERS:																
* PRICE, GREENHECK, NAILOR, TITUS, ENVIROTEC																
A: VERIFY EWT AND LWT FOR EXISTING SYSTEM PRIOR TO SELECTION DUCT HEATING COIL.																
B:																

UNIT AND CABINET HEATER SCHEDULE (HYDRONIC)															
MARK	SERVICE	TYPE	CFM	SENSIBLE MBH	HEATING COIL					ELECTRICAL			MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
					WATER CONDITIONS					HP/ (WATTS)	VOLT	PHASE			
					E.W.T. (°F)	L.W.T. (°F)	FLUID	GPM	MAX. WTR. P.D. (FT.)						
UH-1	STORAGE	SUSPENDED	370	16.2	180	140	WATER	1.7	5	1/25	120	1	MODINE HSB 24	-	A.B
ALTERNATE MANUFACTURERS:															
* BEACON MORRIS, TRANE, STERLING, MODINE, SIGMA, VULCAN															
A: PROVIDE WITH UNIT MOUNTED THERMOSTAT.															
B: VERIFY EWT AND LWT FOR EXISTING SYSTEM PRIOR TO SELECTION DUCT HEATING COIL.															

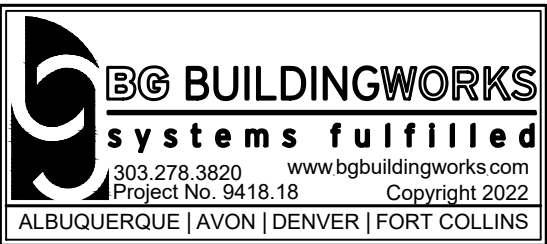
PLUMBING FIXTURE SCHEDULE								
SYMBOL	TYPE	A.D.A.	FINISH	MANUFACTURER* & MODEL #	FAUCET TRIM MFR.* & MODEL #	GPM/GPF	ACCESSORIES	REMARKS
	KITCHEN SINK	YES	STAINLESS STEEL	ELKAY LUSTERTONE ELUHAD281650	KOHLER K-7506	1.5	STRAINER	-
MANUFACTURERS:								
FIXTURE: AMERICAN STANDARD, UNIVERSAL RUNDLE, 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
	SUPPLY	SINGLE DEFL.	WHITE	RE: PLANS	DUCT MOUNTED	PRICE 20	OPPOSED BLADE DAMPER	A,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
ALTERNATE MANUFACTURERS:								
* TITUS, PRICE, KRUEGER, METALAIRE, RUSKIN, GREENHECK								
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.								



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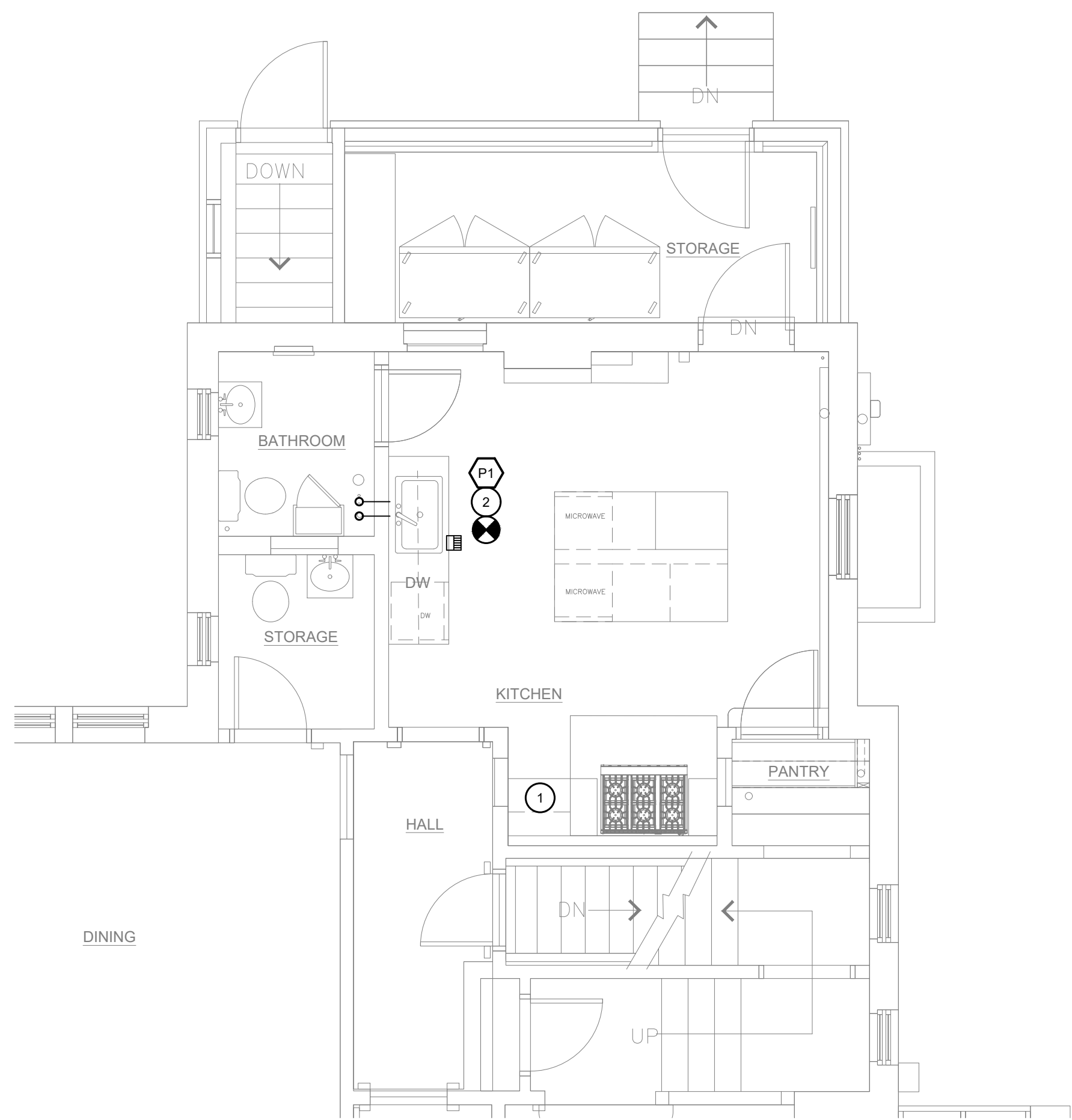

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PROJECT: 2134FL	INITIAL DATE: DEC 21

MECHANICAL SCHEDULES

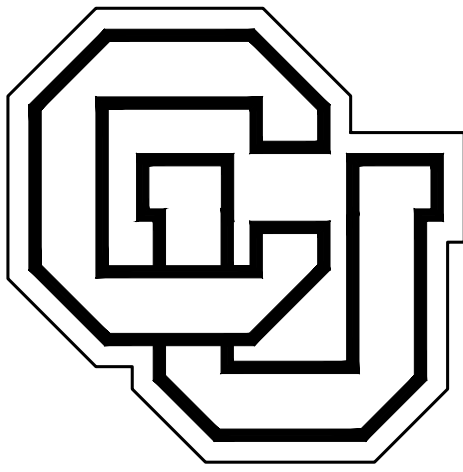
M-001





1. RE: M200 SERIES FOR MECHANICAL DIAGRAM.
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.O.C.
4. REFER TO THE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.
5. EXPOSED SOIL OR WASTE PIPING SHALL NOT BE INSTALLED ABOVE ANY WORKING, STORAGE, OR EATING SURFACES IN FOOD SERVICE ESTABLISHMENTS.
6. 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.

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.
2. CONNECT NEW SINK TO EXISTING CP. HW, SAN AND V PIPING. PROVIDE GREASE INTERCEPTOR EQUAL TO ZURN GT7700-4. LOCATE IN ADJACENT BASE CABINET.
3. TERMINATE CONDENSATE PIPING WITH A DOWNTURNED ELBOW 18" ABOVE GRADE.
4. CONNECT DUCTWORK TO KEN1 IN ACCORDANCE WITH HOOD MANUFACTURERS GUIDELINES. SLOPE DUCTWORK AND INCLUDE CLEANOUTS PER IMC.
5. INSTALL INTAKE LOUVER TO ALIGN WITH DUCT COMING IN THROUGH EXISTING WINDOW OPENING ON BUILDING.
6. INSTALL HOOD WITH APPROPRIATE CLEARANCE AND ACCESS FOR THE ELECTRICAL PANEL, ANSUL SYSTEM AND CONTROLS.



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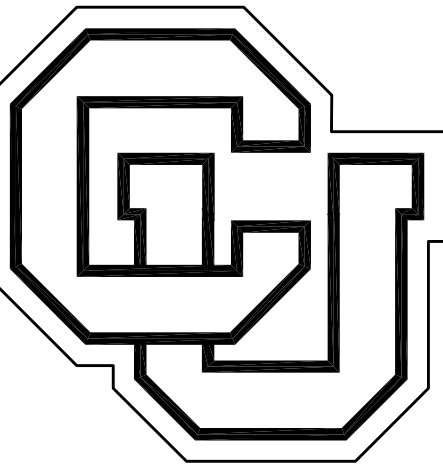
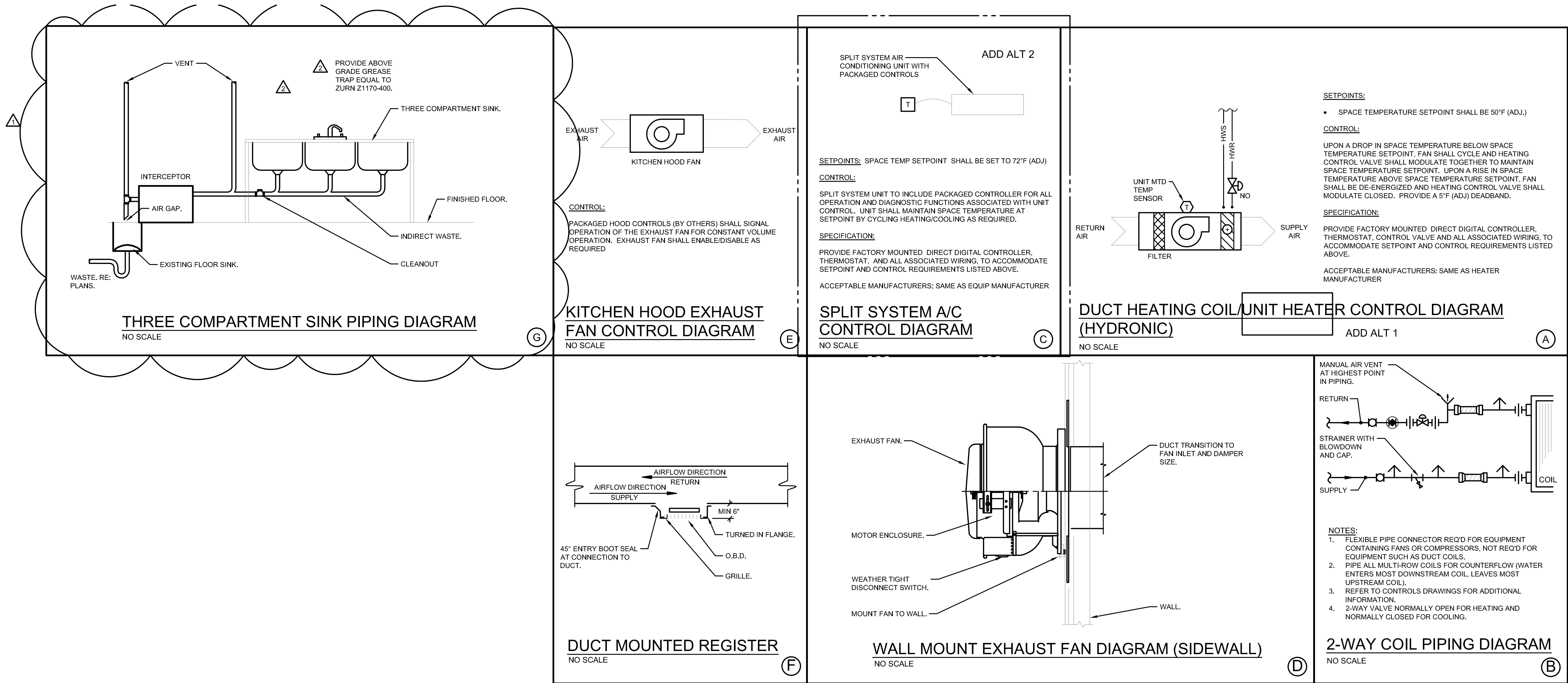
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MECHANICAL AND PLUMBING SHEET

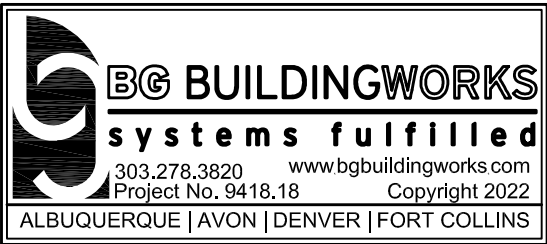
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DATE	DESCRIPTION
2-15-22	95% CONSTRUCTION DOCUMENTS
4-12-22	100% CD FOR CONSTRUCTION
6-17-22	CODE REVIEW COMMENTS

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MECHANICAL DIAGRAMS

M-201







# M-203



EXHAUST FAN INFORMATION -- JOB#5312025

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

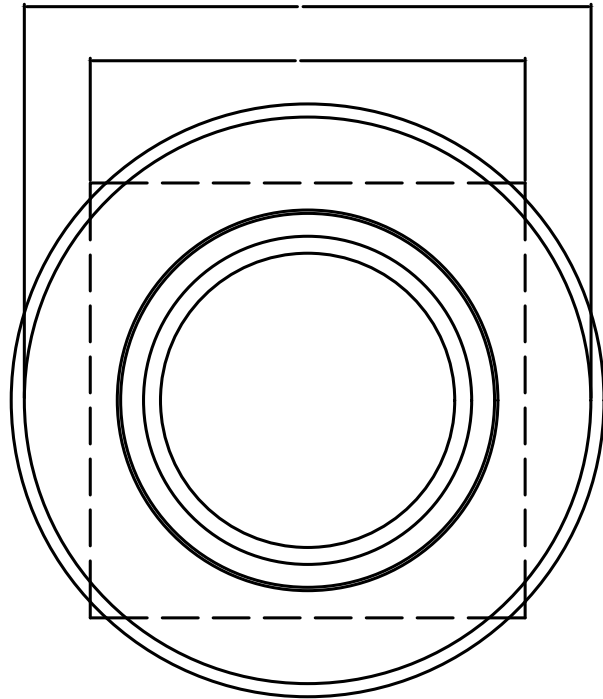
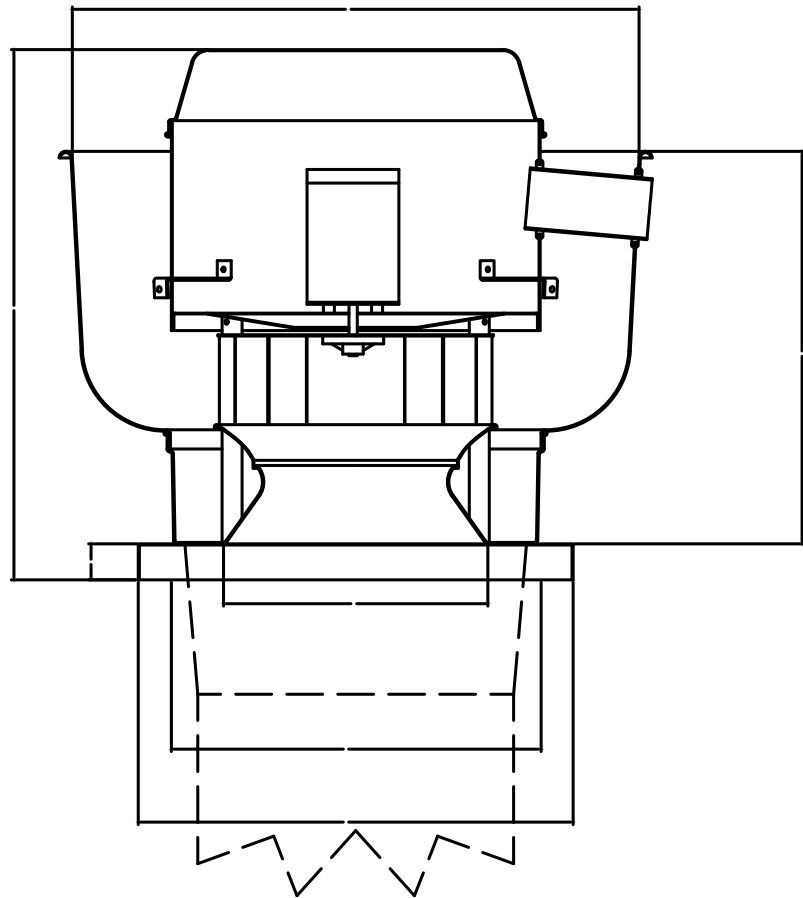
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	WALLMOUNT 20.5" SQ. X 2"
		1	WALL MOUNT CONSTRUCTION FOR FAN
		1	SHIP LOOSE DISCONNECT FOR REMOTE MOUNT
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		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)



TOP VIEW

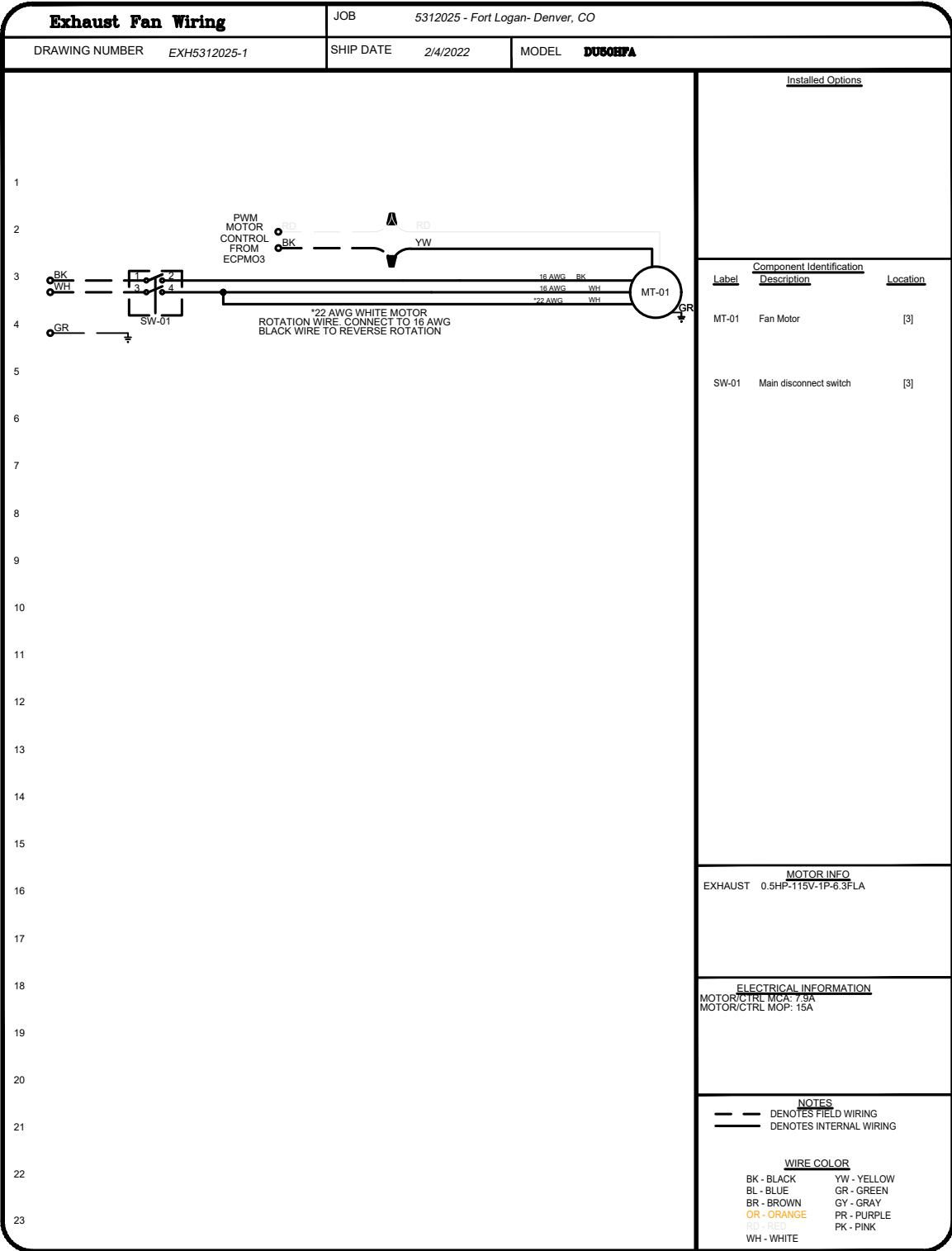
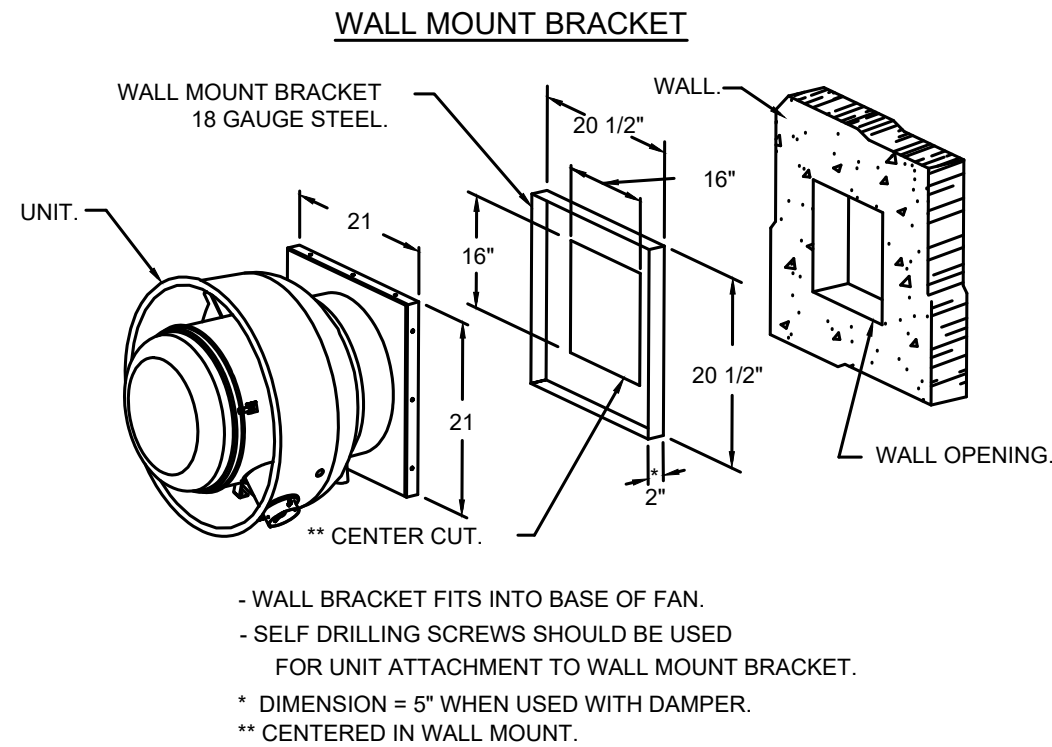
FEATURES:

- 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.

OPTIONS

ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 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.



REVISIONS

DESCRIPTION

DATE

www.captiveaire.com

Denver Office

7300 S Alton Way Building 5, Suite B, Centennial, CO 80112 PHONE: (720) 570-0981 FAX: (919) 227-5999 EMAIL: rep-2@captiveaire.com

Fort Logan- Denver, CO

DENVER, CO, 80220

DATE: 2/4/2022

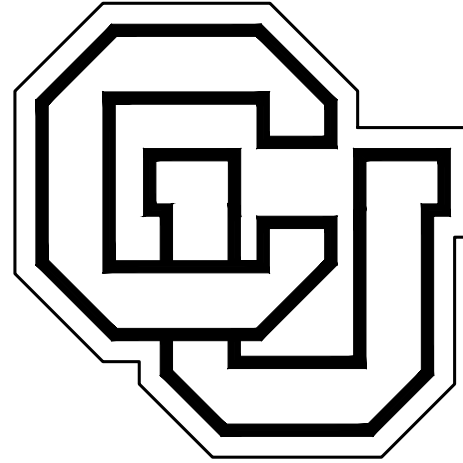
DWG.#: 5312025

DRAWN BY: MAR-42

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 3



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

MECHANICAL DIAGRAMS

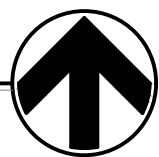
M-204





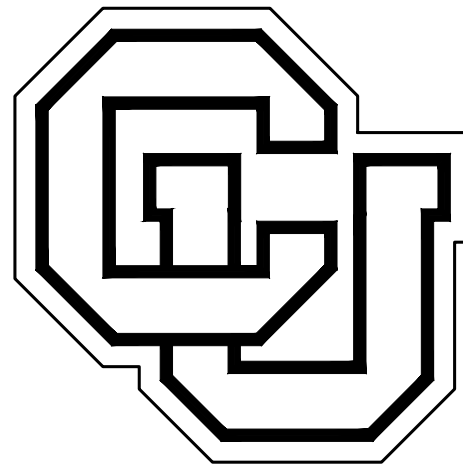


SCALE: 1/4" = 1'-0"



1. 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) CABLE 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 PERFORMING DEMOLITION AROUND SUCH CABLE AND EQUIPMENT.
3. ALL SYSTEMS LOCATED OUTSIDE THE AREA OF DEMOLITION ARE INTENDED TO REMAIN OPERABLE.
4. FOR ALL ITEMS TO BE DEMOLISHED REMOVE CIRCLES 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.

1. 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.
4. 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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STATE PROJECT NO: 22-106819



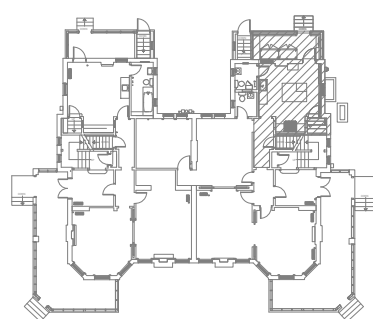
ARCHITECTURAL WORKSHOP . DENVER COLORADO

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

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

## ELECTRICAL DEMOLITION PLAN


# ED-101



## KEY PLAN



S:\BGP\PROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLDG\16 KITCHEN RENOVATION\CAD\9418.18\_E-001.DWG



COMcheck Software Version 4.1.5.3  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC  
Project Title: UCD - Fort Logan  
Project Type: Alteration

Owner/Agent: Mike Vigil  
303-921-0415  
Mike.Vigil@ucdenver.edu

Designer/Contractor: BG Buildingworks  
1626 Cole Blvd  
Suite #300  
Lakewood, CO 80401

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-School/University	345	0.81	279
Total Allowed Watts = 279			

Proposed Interior Lighting Power

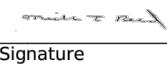
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
School/University (345 sq.ft.) LED 1: S1 and S1e: 1'x4' LED Fixture: Other:	1	6	37	222
Total Proposed Watts = 222				

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.


Michael Reed - PM  
Name - Title

  
Signature

02/15/2022  
Date

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

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



COMcheck Software Version 4.1.5.3  
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC  
Project Title: UCD - Fort Logan  
Project Type: Alteration  
Exterior Lighting Zone

Owner/Agent: Mike Vigil  
303-921-0415  
Mike.Vigil@ucdenver.edu

Designer/Contractor: BG Buildingworks  
1626 Cole Blvd  
Suite #300  
Lakewood, CO 80401

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Walkway >= 10 feet wide	45 ft2	0.1	Yes	4
Total Tradable Watts (a) = 4				4
Total Allowed Watts = 4				4
Total Allowed Supplemental Watts (b) = 400				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power


A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway >= 10 feet wide (45 ft2): Tradable Wattage LED 1: Other:	1	1	25	25
Total Tradable Proposed Watts = 25				25

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.


Michael Reed - PM  
Name - Title

  
Signature

02/15/2022  
Date

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

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



COMcheck Software Version 4.1.5.3  
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 55.0% were addressed directly in the COMcheck software  
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [P44]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Location on plans/spec: Project Specification
C103.2 [P49]†	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.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Report date: 02/15/22  
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1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22]†	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Areas such as security or emergency areas that need continuous lighting.
C405.2.1.1 [EL18]†	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.2 [EL19]†	Occupancy sensors control function in warehouses: In warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20]†	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2.2 [EL21]†	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Lighting controlled by occupancy sensors. Location on plans/spec: E-101

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

Report date: 02/15/22  
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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL23]†	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2 for control function in warehouses and section C405.2.3.1.1 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL26]†	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E-101
C405.2.4 [EL27]†	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.5 [EL28]†	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%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]†	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.6 [EL26]†	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL27]†	Electric motors meet the minimum efficiency requirements of Tables C405.7.1 through C405.7.14. Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2 [EL28]†	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 [EL29]†	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Report date: 02/15/22  
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1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F17]†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F18]†	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [F19]†	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [F15]†	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F16]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F13]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Project Specifications

Additional Comments/Assumptions:

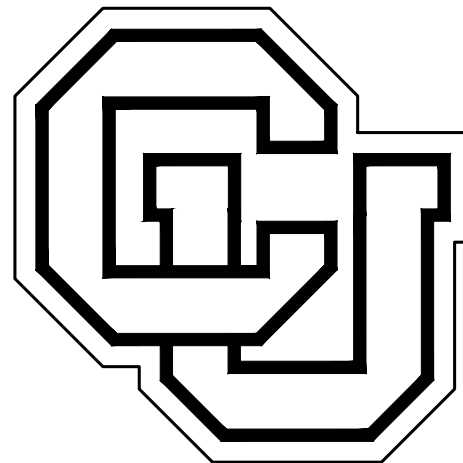
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Data filename: C:\CU ANschutz -ARTS Fort Logan.cck

Report date: 02/15/22  
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1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)



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DENVER, COLORADO 80202  
STATE PROJECT NO: 22-106819



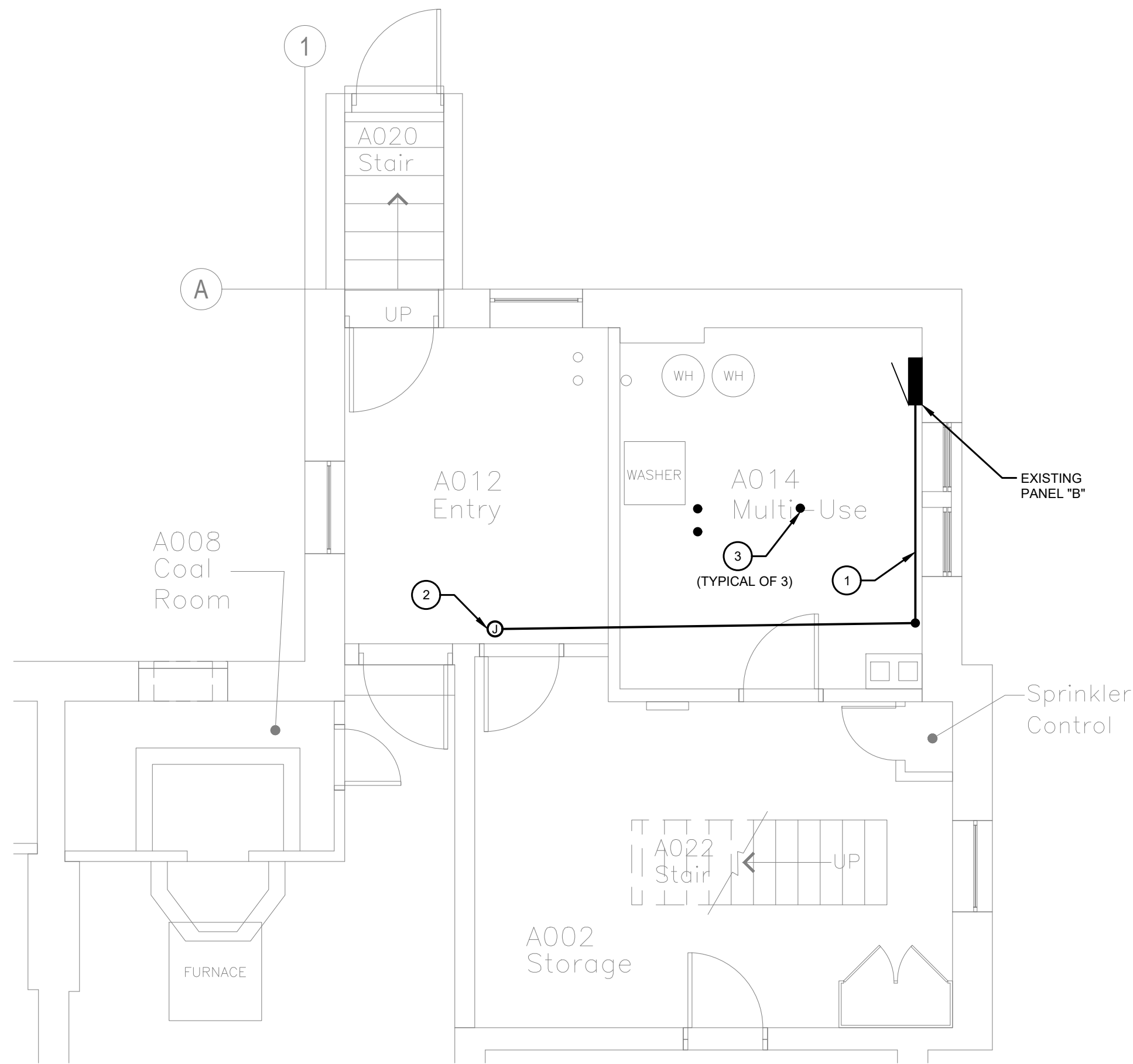
DATE	DESCRIPTION
02-15-22	95% CONSTRUCTION DOCUMENTS
04-12-22	100% CD FOR CONSTRUCTION

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PROJECT: 2134FL              INITIAL DATE: DEC 21

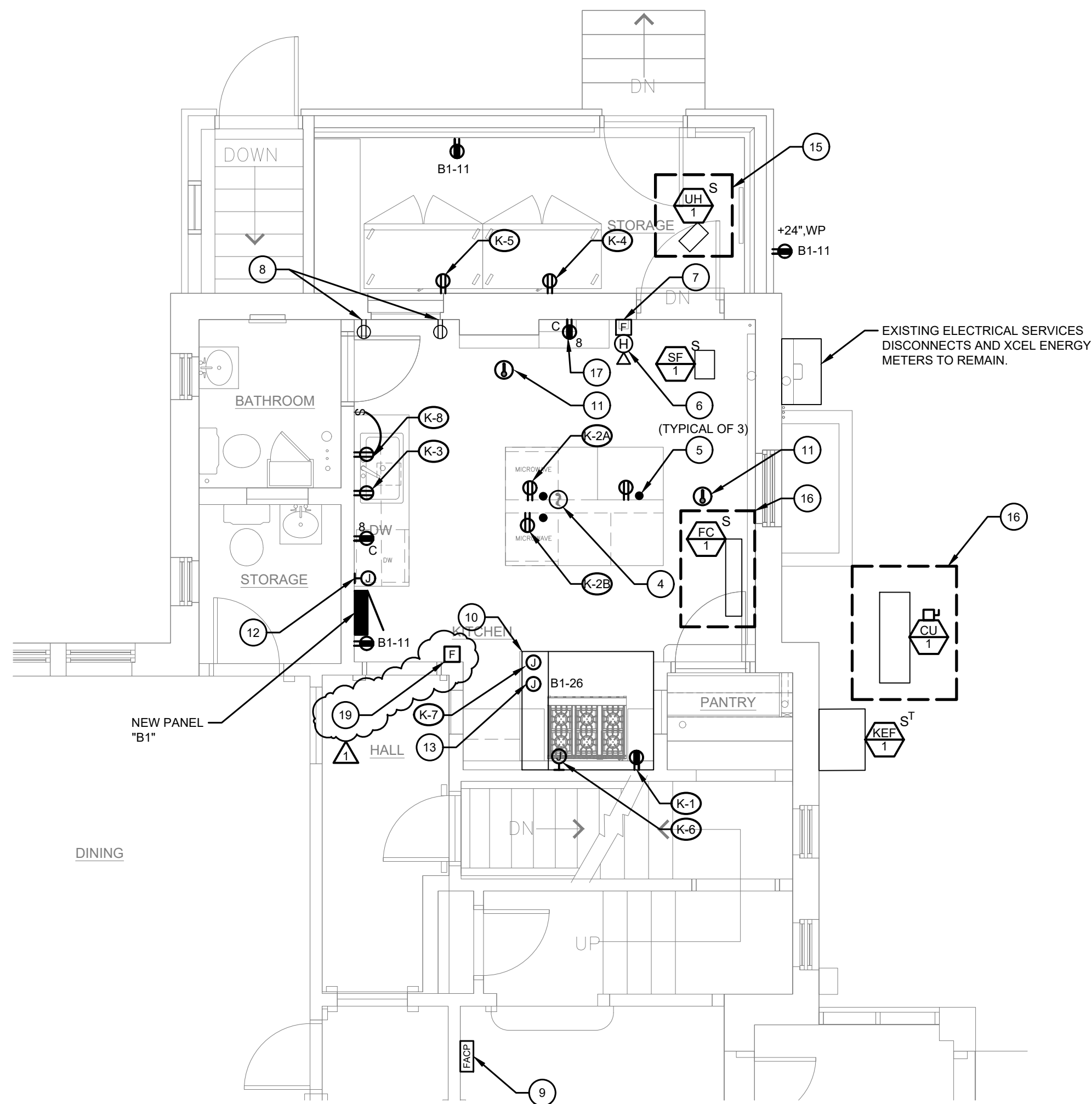
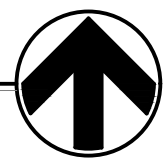
ELECTRICAL COMCHECK  
E-001



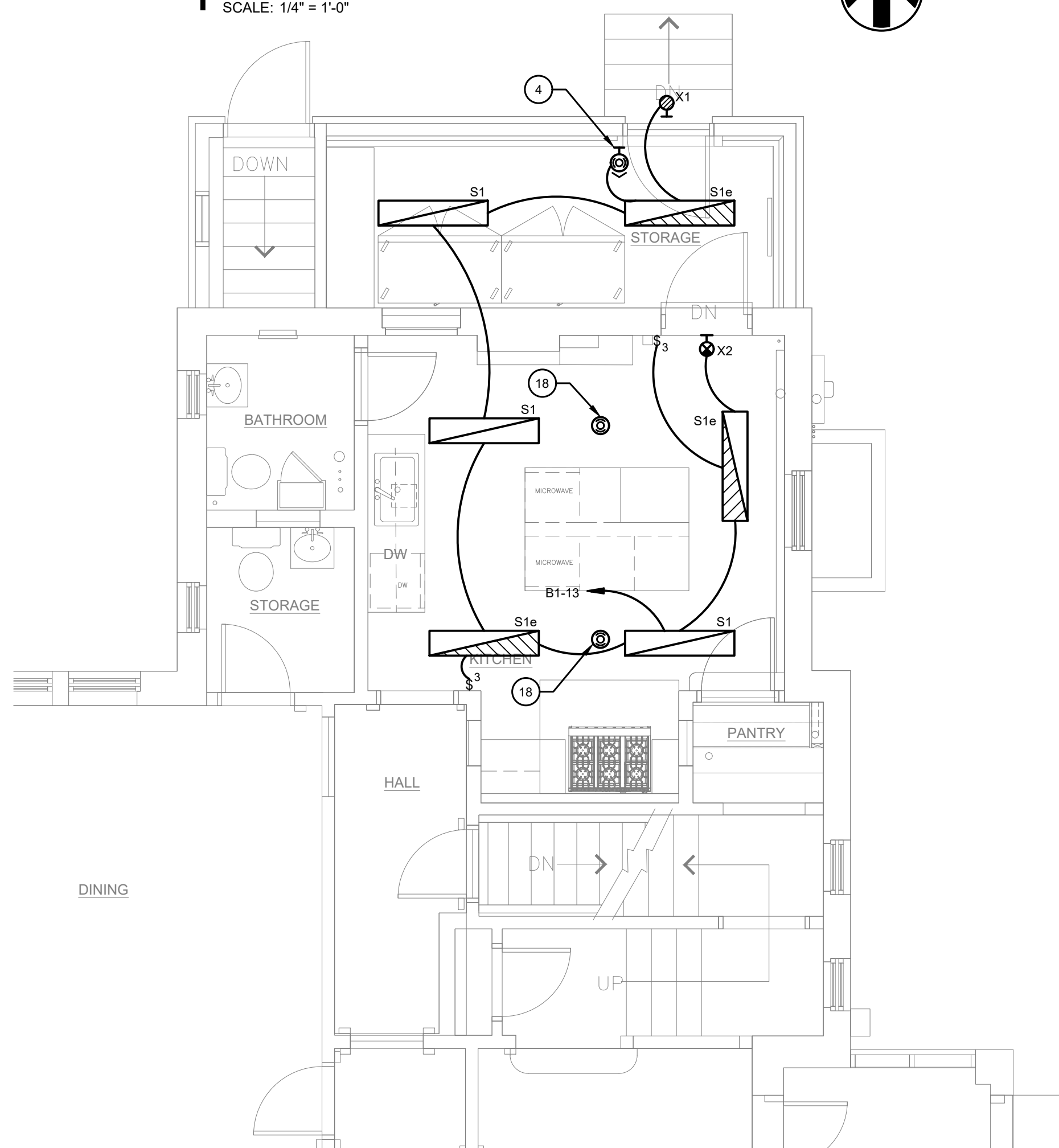
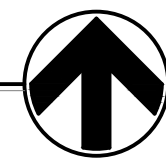
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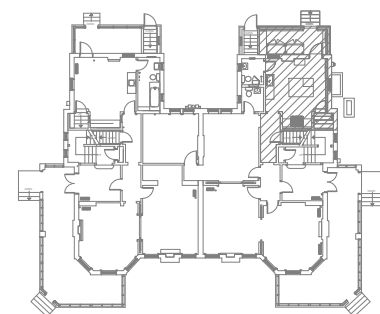
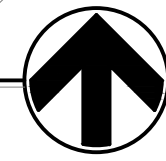
**3 BASEMENT LEVEL POWER PLAN**  
SCALE: 1/4" = 1'-0"



**1 FIRST FLOOR POWER PLAN**  
SCALE: 1/4" = 1'-0"



**2 FIRST FLOOR LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"



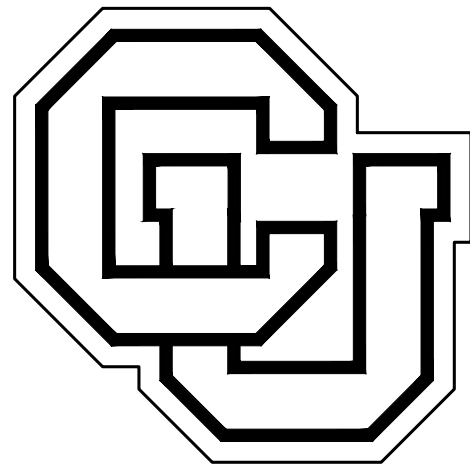
**KEY PLAN**

## POWER NOTES:

- 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 FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ETC. E/C SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS, AND BRANCH CIRCUITS.
- 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 MANUFACTURERS' 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:

- 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.
- 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.
- CONDUIT UP TO ISLAND MILLWORK FROM PANEL "B1". SURFACE MOUNT CONDUIT ON BASEMENT CEILING FROM PANEL "B1" TO ISLAND RECEPTACLES.
- PROVIDE WATT-STOPPER HDSW-301 (OR EQUAL) WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES.
- CONDUIT UP INTO ISLAND WORKSTATION.
- EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.
- EXISTING FIRE ALARM PULL STATION TO REMAIN.
- REPLACE EXISTING RECEPTACLE AND ASSOCIATED COVER PLATE USING EXISTING BRANCH CIRCUITING.
- EXISTING FIRE ALARM PANEL TO REMAIN.
- HOOD ELECTRICAL CONTROL PANEL WITH FIRE ALARM CONNECTION AND SHUNT TRIP CONTACTS PROVIDED WITH KITCHEN HOOD.
- PROVIDE WATT-STOPPER HDT-355 (OR EQUAL) CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES.
- 5mA GFCI REMOTE SELF-TESTING DEVICE FOR GAS RANGE.
- PROVIDE 120-VOLT CONNECTION TO HOOD CONTROL PANEL.
- NEW SYSTEM HEAT DETECTOR.
- THIS PROJECT SCOPE SHALL BE PRICED AS ADD ALTERNATE #1.
- THIS PROJECT SCOPE SHALL BE PRICED AS ADD ALTERNATE #2.
- THIS RECEPTACLE SHALL BE A 4-PLEX.
- PROVIDE WATT-STOPPER HDT-355 (OR EQUAL) CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF INDICATED LIGHT FIXTURES.
- 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



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STATE PROJECT NO: 22-106819



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

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

POWER AND LIGHTING PLAN

E-101



S:\BPROJECTS\9418.18 CU ANSCHUTZ - ARTS - FORT LOGAN BLOG\16 KITCHEN RENOVATION\CAD\9418.18 E-201.DWG

KITCHEN EQUIPMENT SCHEDULE											
MARK	DESCRIPTION	VOLT / PHASE	HP / WATTS	AMPS	CONNECTION				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	
<b>GENERAL NOTES:</b> A. FIELD VERIFY ALL EQUIPMENT POWER AND CONNECTION REQUIREMENTS WITH KITCHEN CONTRACTOR AND MANUFACTURER'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.											
<b>SPECIFIC NOTES:</b> (1) PROVIDE RECEPTACLE 8" 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 (3) (4)											

MECHANICAL EQUIPMENT SCHEDULE													
MARK	DESCRIPTION	VOLT / PHASE	HP	WATTS	FLA	MCA	MOCF	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	
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	
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 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 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	
GENERAL NOTES:													
A. SEE SPECIFICATIONS FOR ELECTRICAL DIVISION AND MECHANICAL DIVISION MOTOR STARTER COORDINATION.													
B. PROVIDE PHASE PROTECTION FOR ALL THREE PHASE MOTORS ABOVE 7-1/2 HP.													
C. PROVIDE ALL EXTERIOR DISCONNECTS WITH NEMA 3R RATING.													
SPECIFIC NOTES:													
(1) POWER FOR INDOOR UNIT (FC-1) OBTAINED FROM OUTDOOR UNIT (CU-1).													

<b>PANEL:</b>			(E) PANEL B			<b>VOLTAGE:</b>			120/240V, 1PH, 3W				
<b>LOCATION:</b>			BASEMENT			<b>MINIMUM BUS:</b>			150				
<b>MOUNTING:</b>			SURFACE			<b>MAIN:</b>			150/2 CB				
						<b>MINIMUM AIC:</b>			22,000 (SERIES RATED)				
NO.	LOAD		TYPE	LOAD DESCRIPTION	BREAKER POLE TRIP	BUS		BREAKER POLE TRIP	TYPE	LOAD DESCRIPTION	LOAD		NO.
	A	B				A	B				A	B	
1				SPARE	1 20 +		20 1			(E) LOAD		2	
3				(E) FIRE ALARM PANEL (2)	1 20 +		20 1			(E) LOAD		4	
5				(E) LOAD	1 20 +		20 1			(E) LOAD		6	
7				(E) LOAD	1 20 +		20 1			(E) LOAD		8	
9				(E) LOAD	1 20 +		20 1			(E) LOAD		10	
11				(E) LOAD	1 20 +		20 1			(E) LOAD		12	
13				(E) LOAD	1 20 +		20 1			(E) LOAD		14	
15				(E) LOAD	1 20 +		20 1			(E) LOAD		16	
17				(E) KITCHEN RECEPT (2)	1 20 +		20 1			(E) LOAD		18	
19				(E) LOAD	1 20 +		20 1			(E) LOAD		20	
21				(E) LOAD	1 20 +		20 1			(E) DRYER (1)(2)		22	
23				(E) LOAD	1 20 +		20 1			(E) DRYER (1)(2)		24	
25				(E) LOAD	1 20 +		20 1			(E) LOAD		26	
27				(E) LOAD	1 20 +		20 1			(E) LOAD		28	
29				(E) LOAD	1 20 +		20 1			(E) LOAD		30	
31				(E) EAST LTG (2)	1 20 +		20 1			(E) LOAD		32	
33				(E) RADON FAN (2)	1 20 +		20 1			(E) LOAD		34	
35				SPARE	1 20 +		20 1			(E) PORCH REC (2)		36	
37				(E) LOAD (4)	1 15 +		20 1			(E) WASHERS (1)(2)		38	
39				PANEL "B1" (4)			20 1			(E) WASHERS (1)(2)		40	
41				--	2 90 +		20 1			SPACE		42	
LOAD TYPE				PANEL TOTAL	FEEDER TOTAL	SUBFEED TOTAL	DEMAND	FEEDER TOTAL					
ALL LIGHTING				0			125%	0					
(R) RECEPTACLES				0			NEC 220	0					
(L) LRG. MOTOR				0			25%	0					
(M) MOTORS (ALL)				0			100%	0					
(E) EQUIPMENT				0			100%	0					
(A) APPLIANCES				0			0	0					
PANEL TOTAL (KVA):								0.0					
PANEL TOTAL (A):								0					
<b>GENERAL NOTES:</b>													
A. EXISTING GENERAL ELECTRIC PANEL LOAD WITH 150A2P THRU MAIN CIRCUIT BREAKER													
<b>SPECIFIC NOTES:</b>													
(1) EXISTING 55w GFCI CIRCUIT BREAKER													
(2) EXISTING LAGS INFORMATION OBTAINED FROM SITE OBSERVATION													
(3) PROVIDE GENERAL ELECTRIC #TH0L2100 CIRCUIT BREAKER FOR TERMINATION OF PANEL "B1" FEEDER.													
(4) REPLACE EXISTING CIRCUIT BREAKER WITH A NEW GENERAL ELECTRIC TH0L115 CIRCUIT BREAKER.													
TERMINATE EXISTING BRANCH CIRCUIT ONTO REPLACEMENT CIRCUIT BREAKER.													