MECHANICAL SPECIFICATIONS (DIVISIONS 22 AND 23)

BASIC MECHANICAL REQUIREMENTS

FURNISH LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR COMPLETION OF WORK UNLESS INDICATED OR NOTED OTHERWISE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND STATE ORDINANCES AND THE INTERNATIONAL MECHANICAL CODE AND UNIFORM PLUMBING CODE. PUT ALL SYSTEMS INTO FULL OPERATION AND ADJUST TO SPECIFIED CONDITIONS. PAY ALL PERMITS AND FEES LEVIED BY UTILITY COMPANIES AND/OR GOVERNING AGENCIES. ALL PIPING, FITTINGS, VALVES, FIXTURES, FAUCETS AND EQUIPMENT CONTAINING OR CONVEYING POTABLE WATER SHALL COMPLY WITH THE LATEST US SAFE DRINKING WATER ACT MANDATING ANY WETTED SURFACE OF THE ABOVE MENTIONED ITEMS SHALL NOT CONTAIN ABOVE 0.25% LEAD CONTENT BY WEIGHTED AVERAGE. ALL PIPING, FITTINGS, VALVE AND EQUIPMENT CONTAINING OR CONVEYING POTABLE WATER SHALL COMPLY WITH NSF 61 G AND NSF 372 OR SHALL BE PROVIDED WITH INDICATION ON SUBMITTALS THE MANUFACTURER'S DECLARATION OF SELF-CERTIFICATION. CONFORM TO APPLICABLE CODE FOR ADDITION OF NON-POTABLE CHEMICALS TO BUILDING MECHANICAL SYSTEMS, AND TO PUBLIC SEWAGE SYSTEMS. DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VISIT SITE AND COORDINATE INSTALLATION WITH EXISTING CONDITIONS PRIOR TO PROVIDING A BID, SECURING EQUIPMENT AND FABRICATING DUCTWORK AND PIPING.

SHOP DRAWINGS, CATALOG INFORMATION AND MATERIAL SCHEDULES SHALL BE SUBMITTED FOR APPROVAL ON ALL SPECIFIED MATERIALS AND EQUIPMENT PRIOR TO ORDERING. DISINFECTION OF DOMESTIC WATER PIPING SYST

PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED AND CLEAN. ENSURE PH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC). INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 % OF OUTLETS. MAINTAIN DISINFECTANT IN SYSTEM FOR TWENTY-FOUR (24) HOURS. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L. TAKE SAMPLES NO SOONER THAN TWENTY-FOUR (24) HOURS AFTER FLUSHING, FROM 10 % OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA C651, PROVIDE LABORATORY RESULTS TO OWNER'S REPRESENTATIVE, OBTAIN APPROVAL FROM LOCAL HEALTH DEPARTMENT.

SANITARY SEWER & VENT: TEST ALL BUILDING SANITARY SEWER & VENT PIPING TO ENSURE SYSTEM IS WATER TIGHT. A WATER TEST SHALL BE APPLIED TO THE DRAINAGE AND VENT SYSTEMS EITHER IN ITS ENTIRETY OR IN SECTIONS. IF APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE TIGHTLY CLOSED, EXCEPT THE HIGHEST OPENING, AND THE SYSTEM FILLED WITH WATER TO POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY PLUGGED EXCEPT THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND EACH SECTION SHALL BE FILLED WITH WATER, BUT NO SECTION SHALL BE TESTED WITH LESS THAN A 10 FOOT HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED, SO THAT NO JOINT OR PIPE IN THE BUILDING (EXCEPT THE UPPERMOST 10 FEET OF THE SYSTEM SHALL HAVE BEEN SUBMITTED TO A TEST OF LESS THAN 10 FEET HEAT OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST FIFTEEN MINUTES BEFORE INSPECTION STARTS. THE SYSTEM SHALL THEN BE TIGHT AT ALL POINTS. TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. PLUMBING WATER PIPING: UPON COMPLETION OF A SECTION OR OF THE ENTIRE NEW HOT AND COLD WATER SUPPLY SYSTEM, IT SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED OR 100 PSIG WHICHEVER IS GREATER. THE WATER USED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. A FIFTY (50) POUND PER SQUARE INCH AIR PRESSURE MAY BE SUBSTITUTED FOR THE WATER TEST. IN EITHER METHOD OF TEST, THE PIPING SHALL WITHSTAND THE TEST WITHOUT LEAKING FOR A PERIOD OF NOT LESS THAN THIRTY (30) MINUTES. TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. NATURAL GAS PIPING: GAS PIPING SHALL BE TESTED AND MADE TIGHT IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL FUEL GAS CODE AND ANY OTHER GOVERNING LOCAL GAS CODES.

DEMOLITION OF EXISTING MECHANICAL SYSTEMS AND EQUIPMENT IN REMODELED AREAS SHALL BE PROVIDED FOR BY THIS CONTRACTOR. THE CONTRACTOR SHALL REMOVE EQUIPMENT, PIPING, DUCTWORK, ETC. AS INDICATED ON DRAWINGS. CAPPING ALL DUCTWORK, PIPING, ETC. AS INDICATED. ALL REMOVED EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR, IF REFUSED BY THE OWNER, AND SHALL BE REMOVED FROM SITE IN AN APPROVED MANNER. EQUIPMENT TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BE FULLY CLEANED, REPAIRED OR REPLACED, IF DAMAGED BY THE CONTRACTOR.

THE LOCATIONS OF EXISTING CONCEALED LINES AND CONNECTION POINTS HAVE BEEN INDICATED AS CLOSELY AS POSSIBLE FROM AVAILABLE INFORMATION. THE CONTRACTOR SHALL ASSUME THAT SUCH CONNECTION POINTS ARE WITH IN A 10-FOOT (10') RADIUS OF THE INDICATED LOCATION. WHERE CONNECTION POINTS ARE NOT WITHIN THIS RADIUS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR A DECISION BEFORE PROCEEDING OR MAY PROCEED AT HIS OWN EXPENSE.

RECORD DRAWINGS RECORD DIFFERENCES BETWEEN INSTALLED WORK AND CONTRACT DOCUMENTS ON A SET MARKED UP TO BE FURNISHED TO THE OWNER'S REPRESENTATIVE.

PROJECT FINALIZATION PROVIDE OPERATION AND MAINTENANCE MANUALS, TEST & BALANCE REPORTS, OWNER INSTRUCTION ON TRAINING AND MAINTENANCE, RECORD DRAWINGS, AND SYSTEM/EQUIPMENT GUARANTEES.

FESTING, ADJUSTING, AND BALANCING AIR AND WATER DISTRIBUTION SYSTEMS SHALL BE BALANCED TO FLOW RATES AND CONDITIONS SPECIFIED AND INDICATED ON THE DRAWINGS (AND IN ACCORDANCE WITH THE STATE ENERGY CODE) BY AN AABC OR NEBB CERTIFIED BALANCING AGENCY. TOLERANCE: +/-10%. APPROVED AGENCIES: TESTCOMM LLC OR APPROVED EQUAL.

CONTRACTOR SHALL INSTRUCT THE OWNER OF THE PROPER OPERATION OF EQUIPMENT FURNISHED BY THIS CONTRACTOR AND SHALL PREPARE MANUALS DESCRIBING THE SERVICING AND MAINTENANCE REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT. PROVIDE RECORD OF PIPE AND TESTS IN ACCORDANCE. INCLUDE CERTIFICATE OF TESTS IN O&M MANUAL. INCLUDE CERTIFICATE OF HEALTH DEPARTMENT APPROVAL OF DOMESTIC WATER QUALITY IN O&M MANUAL.

SEISMIC SUPPORTS ARE REQUIRED FOR THE PLUMBING AND HVAC SYSTEMS IN THE PROJECT. SEISMIC CONDITIONS: SEISMIC DESIGN CATEGORY D, MECHANICAL SYSTEM IMPORTANCE FACTOR FOR NATURAL GAS PIPING AND GAS FIRED EQUIPMENT, IP=1.5, MECHANICAL IMPORTANCE FACTOR FOR ALL OTHER PLUMBING AND HVAC SYSTEMS: IP=1.0. SEISMIC BRACING SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ASCE 7-16. THE MANUFACTURER PROVIDING THE SEISMIC BRACING SHALL PROVIDE STAMPED ENGINEERED DRAWINGS INDICATING CONFORMANCE WITH THE REQUIREMENTS OF ASCE 7-16 FOR THE SDC AND IP INDICATED ABOVE. APPROVED SEISMIC MANUFACTURERS: VIBRO-ACOUSTICS, AMBER BOOTH, ISAT, KINETICS, KORFUND, AND MASON INDUSTRIES. AFTER INSTALLATION, ARRANGE AND PAY FOR THE SEISMIC RESTRAINT PRODUCT MANUFACTURER, OR REPRESENTATIVE, TO VISIT THE SITE TO VERIFY THAT THE SEISMIC AND WIND RESTRAINT SYSTEMS ARE INSTALLED. PROPERLY, AND SUBMIT A CERTIFICATE SO STATING.

ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE ALLOWED WITHOUT STRUCTURAL ENGINEERS APPROVAL. PATCHING PROVIDED BY THIS CONTRACTOR SHALL BE COMPLETE IN EVERY DETAIL AND SHALL MEET THE APPROVAL OF THE ARCHITECT.

INSTALL IN COMPLETE ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

CHANICAL IDENTIFICATIO IDENTIFY ALL SCHEDULED EQUIPMENT WITH PLASTIC NAMEPLATES AND CONTROL PANELS (LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED WHITE LETTERS ON BLACK BACKGROUND). SMALL DEVICES, SUCH AS IN-LINE PUMPS, MAY BE IDENTIFIED WITH TAGS. IDENTIFY PIPING, CONCEALED OR EXPOSED, WITH PLASTIC PIPE MARKERS OR PLASTIC TAPE PIPE MARKERS. IDENTIFY SERVICE, FLOW DIRECTION, AND PRESSURE (WHEN APPLICABLE). INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING. LOCATE IDENTIFICATION NOT TO EXCEED 20 FEET (BUT NOT LESS THAN ONE PER ROOM) ON STRAIGHT RUNS INCLUDING RISERS AND DROPS, ADJACENT TO EACH VALVE AND TEE, AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.

WHERE PIPING AND DUCTWORK PENETRATES A ROOF, FLOOR OR WALL, CLOSE OFF SPACE BETWEEN PIPE AND SLEEVE WITH 3 LB. FIBERGLASS INSULATION AND ELASTOMERIC FIRE RATED SEALANT (AIR TIGHT). THIS APPLIES TO ALL ROOFS, WALLS OR FLOORS REGARDLESS OF FIRE RATING. NOTE: 3 LB. INSULATION NOT REQUIRED AT ROOF PENETRATIONS. USE FIRE SAFEING SEALANT AT PENETRATIONS OF FIRE RATED FLOORS AND WALLS. PROVIDE CHROME PLATED CAST BRASS, ONE PIECE ESCUTCHEONS AT ALL PIPE PENETRATIONS OF FINISHED SURFACES (WALLS, CEILINGS, FLOORS).

ACCESS DOORS PROVIDE ACCESS DOORS IN WALL/SHAFT SURFACES AND DUCTWORK AS REQUIRED TO ALLOW FOR SERVICE TO EQUIPMENT SUCH AS VALVES, ACTUATORS, FIRE DAMPERS, FANS, PUMPS ETC.

SUPPLY & RETURN LOW PRESSURE SHEET METAL DUCTWORK SHALL BE GALVANIZED STEEL CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR HVAC DUCT CONSTRUCTION AND WITH THE INTERNATIONAL MECHANICAL CODE UNLESS INDICATED OTHERWISE. UNLESS NOTED OTHERWISE. DUCTWORK SHALL BE LOW PRESSURE AND CONSTRUCTED TO 2" POSITIVE PRESSURE CLASS FOR SUPPLY AND

RELIEF DUCTWORK AND 2" NEGATIVE PRESSURE CLASS FOR OUTSIDE AIR AND RETURN DUCTWORK. STAINLESS STEEL DUCTS AND CHEMICAL FUME HOOD EXHAUST DUCTWORK: ASTM A167, TYPE 304. 316.

FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA, HVAC DUCT CONSTRUCTION STANDARD, METAL AND FLEXIBLE AND THE UNIFORM MECHANICAL CODE. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED. ALL DUCTWORK BETWEEN THE CHEMICAL FUME HOODS AND THE BUILDING DISCHARGE SHALL BE STAINLESS STEEL. MINIMUM GAUGE SHALL BE 18 GAUGE AND DUCTWORK SHALL HAVE LONGITUDINAL SEAMS IN LIEU OF SPIRAL SEAMS

FLEXIBLE DUCTWORK: THERMAFLEX, MODEL G-KM OR EQUAL. UL 181 CLASS 1 FLEXIBLE AIR DUCT COMPLYING WITH NFPA STANDARD 90A; FACTORY FABRICATED ASSEMBLY COMPOSED OF AN INNER LINER, COATED WOUND SPRING STEEL WIRE, 1 INCH THICK FIBERGLASS INSULATION (INSTALLED R-VALUE 4.3), AND A VAPOR BARRIER OUTER JACKET; 6 INCHES WG POSITIVE WORKING PRESSURE AND 1 INCH WG NEGATIVE WORKING PRESSURE FOR DUCTS UP TO 10 INCH DIAMETER, 4 INCHES WG POSITIVE WORKING PRESSURE AND 1 INCH WG NEGATIVE WORKING PRESSURE FOR DUCTS 12 TO 16 INCHES DIAMETER; 4000 FPM MAXIMUM WORKING VELOCITY; 20 TO 200 °F WORKING TEMPERATURES. FLEXIBLE DUCTS NOT EXCEEDING SIX (6) FEET IN LENGTH MAY BE USED TO CONNECT GRILLES AND DIFFUSERS WHERE DUCTWORK IS NOT EXPOSED. NOTE: REFER TO APPLICABLE DETAILS FOR GRD (GRILLE, REGISTER, DIFFUSERS) CONNECTIONS.

DUCT SEALANT SEALANT CLASS A: HARDCAST, DURADYNE, DUCTMATE, OR APPROVED EQUAL. NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS. SEALANT SHALL BE COMPOSITELY TESTED FOR FIRE AND SMOKE HAZARD RATINGS ACCORDING TO RECOGNIZED STANDARD TESTING METHODS (ASTM E84) AND SHALL HAVE RATINGS NOT EXCEEDING FLAME SPREAD 25, FUEL CONTRIBUTED 50 AND SMOKE DEVELOPED 50.S SEALANTS USED ON ALL NON-EXTERIOR DUCTWORK SHALL BE WATER BASED (NO SOLVENTS).

DUCT INSULATION GLASS FIBER, FLEXIBLE BLANKET (DUCT WRAP): MANUFACTURERS: JOHNS MANVILLE, R-SERIES MICROLITE, CERTAINTEED; STANDARD DUCTWRAP, KNAUF; DUCTWRAP, OWENS CORNING; ALL SERVICE DUCTWRAP OR EQUAL INSULATION: ASTM C553; FLEXIBLE, NONCOMBUSTIBLE BLANKET; K FACTOR: ASTM C518, 0.29BTU IN/(H·SQFT·°F) AT 75 °F; MAXIMUM SERVICE TEMPERATURE: 250 °F; MAXIMUM MOISTURE ABSORPTION: 0.20 % BY VOLUME; DENSITY: 0.75 POUNDS/FOOT³; RESISTANCE TO MICROBIAL GROWTH: ASTM C665; SHALL NOT SUPPORT MOLD, BACTERIA, OR FUNGUS GROWTH. VAPOR BARRIER JACKET: FOIL SCRIM KRAFT (FSK); FOIL THICKNESS: 0.00035 INCHES; MOISTURE VAPOR TRANSMISSION: ASTM E96; 0.02 PERM; CLASS I VINYL; VINYL THICKNESS: 0.0032 INCHES; MOISTURE VAPOR TRANSMISSION: ASTM E96; 1.3 PERM; VAPOR BARRIER TAPE: SAME MATERIAL AS VAPOR BARRIER JACKET AS RECOMMENDED BY THE INSULATION MANUFACTURER. EXTERIOR APPLICATIONS FOR INSULATED DUCTWORK: ALUMINUM JACKET, ASTM B209; THICKNESS: MINIMUM 0.016 INCH THICK SHEET; LONGITUDINAL SLIP JOINTS AND MINIMUM 2 INCH LAPS; METAL JACKET BANDS: MINIMUM 3/8 INCH WIDE; MINIMUM 0.015 INCH THICK ALUMINUM.

ATTIC SUPPLY & RETURN DUCT WRAP INSULATION SHALL BE 2" THICK. (R-6) EXTERIOR SUPPLY & RETURN DUCTS INSULATION SHALL BE 4.5" THICK (R-12)

DUCT ACCESSORIES MANUAL VOLUME DAMPERS SHALL BE OPPOSED BLADE OR SINGLE BLADE AS INDICATED ON THE DRAWINGS AND SHALL BE COMPLETE WITH EXTERNAL LOCKING QUADRANTS. OPPOSED BLADE DAMPERS SHALL BE RUSKIN OR APPROVED EQUAL. AIR TURNING VANES SHALL BE FABRICATED FOR ALL RECTANGULAR ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTIONS STANDARDS. PROVIDE BALANCE DAMPERS IN BRANCH DUCTWORK TO ALL AIR INLETS AND OUTLETS WHETHER INDICATED ON THE DRAWINGS OR NOT.

REFRIGERANT PIPINO FURNISH AND INSTALL COMPLETE REFRIGERANT PIPING SYSTEMS. PIPE: NITROGENIZED TYPE ACR HARD DRAWN OR ANNEALED, ASTM B280 AND ANSI B9.1 HARD DRAWN (AND BRAZED) OR ANNEALED. SINGLE ZONE SYSTEMS LESS THAN 2 TONS MAY UTILIZE ANNEALED PIPING.

PLUMBING FIXTURES AND EQUIPMENT ALL FIXTURES AND RELATED EQUIPMENT SHALL BE EQUAL TO ITEMS SCHEDULED ON THE PLANS. ALL EQUIPMENT SHALL BE NEW AND OF THE LATEST AND MOST CURRENT LINE OF THE SPECIFIED MODEL

DOMESTIC HOT AND COLD WATER PIPING-ABOVE GROUND: SHALL BE TYPE "K' OR "L" COPPER CONFORMING TO ASTM-B88 WITH ASME B16.22 WROUGHT COPPER AND BRONZE FITTINGS USING 95/5 NO LEAD SWEAT FITTINGS. LAB ACID RESISTANCE WASTE & VENT ABOVE GRADE (EXCEPT RETURN AIR PLENUMS)

CPVC PIPE: SPEARS LAB WASTE PIPING, ASTM F 2618 FITTINGS: CPVC JOINTS: ASTM D 3311, SOLVENT WELD WITH ASTM F 493 SOLVENT CEMENT

PROCESSED WATER SYSTEMS FOR LABORATORY FACILITIES PIPE & FITTINGS: HIGH PURITY POLYPROPYLENE, PVDF (IN AIR PLENUMS) OR SCHEDULE 80 LOW EXTRACTION PVC. SPEARS, GEORG FISCHER, GSR, PPS, RYAN HERCO, ASAHI OR APPROVED EQUAL. FITTINGS TO INCLUDE FUSION COILS, BUTT OR SOCKET WELD, ALL JOINTS TO BE FUSION WELD TYPE FOR HIGH PURITY POLYPROPYLENE & PVDF OR SOLVENT CEMENT TYPE FOR LOW EXTRACTION PVC. TOTAL SYSTEM RATED AT 150 PSI AT 73°F CAPABLE OF HANDLING TEMPERATURES OF 212°F. BALL VALVES: HIGH PURITY POLYPROPYLENE, FUSION WELD JOINTS, OR LOW EXTRACTION PVC. PROVIDE UNIONS FOR SERVICING.

NATURAL GAS PIPING: FURNISH AND INSTALL COMPLETE GAS PIPING SYSTEMS. PIPE: BLACK STEEL SCHEDULE 40, TYPE E OR S, GRADE B, SEAMLESS BELVELED ENDS. FITTINGS: MALLEABLE IRON, ASME B16.3. JOINTS: NFPA 54, THREADED, ANSI B31.2.

PIPE HANGERS SHALL BE GRINNELL. FEE AND MASON OR APPROVED EQUAL. INSTALL PIPING SO AS NOT TO INTERFERE WITH ANY OTHER BUILDING COMPONENTS OR MECHANICAL/ELECTRICAL SYSTEMS. PROVIDE WITH SUITABLE INSULATION SADDLES OR SHIELDS. HOT PIPING OVER 2" SHALL UTILIZE CAST IRON ROLLERS AND CURVED CARBON STEEL PLATE EQUAL TO ANVIL FIG 160, 161, 162. COLD PIPING SHALL HAVE CONTINUOUS INSULATION WITH NO THERMAL BREAKS. PIPE HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE MADE OF THE SAME MATERIAL AS THE PIPE.

ABOVE GRADE SANITARY WASTE AND VENT PIPING: WASTE PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH HEAVY DUTY NO-HUB FITTINGS UTILIZING 4-BAND STAINLESS STEEL AND NEOPRENE GASKETS. VENT PIPING SHALL BE SCHEDULE 40 CAST IRON WITH NO-HUB FITTINGS OR SOLID CORE SCHEDULE 40 PVC (DWV). PENETRATIONS OF PLASTIC PIPING THRU RATED WALLS, FLOORS OR CEILINGS SHALL BE INSTALLED PER REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

INDIRECT WASTE PIPING: SHALL BE TYPE "L" COPPER (OR PVC) CONFORMING TO ASTM B88 WITH ASME B16.22 WROUGHT COPPER AND BRONZE FITTINGS USING 95/5 NO LEAD SWEAT FITTINGS.

PLUMBING SPECIALTIES: BALL VALVES: CLASS 150, 400 PSI, BRONZE TWO PIECE BODE, CHROME PLATED BRASS BALL, REGULAR PORT, TEFLON SEATS AND STUFFING BOX RING, BLOW-OUT PROOF STEM, LEVER HANDLE, SOLDER OR THREADED ENDS WITH UNION. GAS STOPS UP TO 2", BUTTERFLY (BUTTERBALL) BRONZE BODY, LEVER HANDLE, STAINLESS STEEL DISC AND STEM, VITON SEAL, 200 PSI WORKING PRESSURE, MSS SP-67, AGA CERTIFIED AND UL LISTED FOR GAS SERVICE. CHECK VALVES, UP TO 2": CLASS 125, BRONZE BODY AND CAP, BRONZE SWING DISC WITH RUBBER SEAT, SOLDER ENDS.

STRAINERS. UP TO 2": THREADED BRASS BODY FOR 125 PSI. AT 400 °F. Y PATTERN WITH 3/64 INCH STAINLESS STEEL PERFORATED SCREEN PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES (FLUSH VALVES) AND AT EACH PLUMBING FIXTURE OR BATTERY OF FIXTURES (DRINKING FOUNTAINS EXCLUDED). AIR CHAMBERS ARE NOT ALLOWED.

PIPING INSULATION INSULATE HYDRONIC AND PLUMBING PIPING SYSTEMS INCLUDING PIPE FITTINGS AND VALVES. INSULATION SHALL BE GLASS FIBER WITH ALL SERVICE VAPOR BARRIER JACKET AND SHALL BE GREENGUARD CERTIFIED. SCHULLER, KNAUF, OWENS CORNING. FITTINGS SHALL BE PROTECTED WITH ONE PIECE PVC COVERS EQUAL TO ZESTON 2000. INSULATE REFRIGERANT PIPING SYSTEMS INCLUDING PIPE FITTINGS AND VALVES. INSULATION SHALL BE CELLULAR FOAM EQUAL TO ARMSTRONG ARMAFLEX-AP. MAKE CONNECTIONS WITH WATERPROOF VAPOR BARRIER CONTACT ADHESIVE COMPATIBLE WITH THE INSULATION-ARMSTRONG 520 ADHESIVE OR APPROVED EQUAL. PAINT EXTERIOR EXPOSED INSULATION WITH TWO COATS OF GRAY FINISH RECOMMENDED BY THE INSULATION MANUFACTURER TO PROTECT FROM WEATHER AND SUNLIGHT.

DOMESTIC COLD WATER: UNDER 1" DIAMETER = 1/2" THICK. 1" DIAMETER AND GREATER = 1" THICK. DOMESTIC HOT WATER SUPPLY & RETURN: UNDER 1-1/2" DIAMETER = 1" THICK. 1-1/2" DIAMETER AND GREATER = 1-1/2" THICK. REFRIGERANT PIPING (40 TO 60 DEGREES): UNDER 1 1/2" DIAMETER, 1" THICK. 1 1/2" DIAMETER AND GREATER: 1 1/2" THICK.

VIBRATION ISOLATION THE NEW ROOFTOP SHALL BE INSTALLED ON SPRING ISOLATED BRACE SIMILAR TO EXISTING. ALL FANS SHALL BE CONNECTED TO DUCTWORK WITH FLEXIBLE DUCT CONNECTORS.

LAB AND MEDICAL PIPING LEGEND ------CF------- CARBON FILTERED WATER -----LCA------ LAB COMPRESSED AIR - - ARV - - LAB VENT (ACID RESISTANT VENT) ARW LAB WASTE (ACID RESISTANT WASTE) ——MA—— MEDICAL AIR ------MV------ MEDICAL VACUUM -----N2O----- NITROUS OXIDE -----NPCW------ NON-POTABLE COLD WATER ------NPHW------- NON-POTABLE HOT WATER ------NPHWR------ NON-POTABLE HOT WATER RETURN -----NPSCW----- NON-POTABLE SOFT COLD WATER ------O2------ OXYGEN ------PWS------- PURE WATER SUPPLY ------PWR------- PURE WATER RETURN ------RO------- REVERSE OSMOSIS

HYDRONIC PIPING LEGEND

------CD----------CONDENSATE DRAIN ------RG------- REFRIGERANT GAS

PLUMBING/PIPING LEGEND

	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC RECIRCULATED WATER (HWR)
DSP	DRY STAND PIPE
F	FIRE
	FIRE DEPARTMENT CONNECTION PIPE
IW	INDIRECT WASTE (ABOVE FLOOR)
——————————————————————————————————————	NATURAL GAS (7" WC, UNLESS OTHERWISE NOTED)
ODL	OVERFLOW DRAIN LINE
RDL	ROOF DRAIN LINE
SD	STORM DRAIN
	SANITARY SEWER
SHR	SOLAR HEATING RETURN
SHS	SOLAR HEATING SUPPLY
	VENT
	WASTE
	VENT (BELOW GRADE)
	WASTE (BELOW GRADE)

TEMPERATURE CONTROL SYMBOLS

	\frown	TEMPERATURE CONTROL SYMBOLS				SYMBOLS & ABBREV	/IATION	S
	(AF)	AIRFLOW MONITOR		MOTORIZED DAMPER		GENERAL SYMBOLS		
—		↔ AVERAGING SENSOR	(os)	OCCUPANCY SENSOR	(#)	KEY NOTE	ROOM	ROOM NAME AND NUMBER
	(0^{2})	CARBON DIOXIDE SENSOR		- POINT SENSOR	EQ-#	EQUIPMENT IDENTIFIER		CONNECTION TO EXISTING (#"
	(0)	CARBON MONOXIDE SENSOR	PS	PRESSURE SENSOR		– DETAIL NUMBER	↓ ∧	INDICATES EXISTING SIZE)
	<u> </u>			PUMP		DETAIL REFERENCE – SHEET NUMBER	$\underline{1}$	REVISION NUMBER
		COIL (HEATING/COOLING)				– SHEET NUMBER – DETAIL NUMBER	1 SIM	- SECTION NUMBER
	#	CONTROL POINT) REFRIGERANT MONITOR	Ref Sht Ref Sht	DETAIL REFERENCE	A101	SECTION REFERENCE
	СТ	CURRENT TRANSDUCER	(s	SENSOR		– MATCHED SHEET NUMBER – CURRENT SHEET NUMBER		– SHEET NUMBER
	\times		©∦(SP	SOLENOID VALVE ACTUATOR				NORTH ARROW
		DAMPER MOTOR ACTUATOR IDENTIFICATION	SP) STATIC PRESSURE SENSOR		 MATCH LINE REFERENCE MATCHED SHEET NUMBER 		
		DIFFERENTIAL PRESSURE SWITCH	\$) SWITCH			Ę	CENTER LINE
		DUCT SMOKE DETECTOR) G SWITCH WITH GUARDED COVER				
	ES	END SWITCH	S) SWITCH WITH PILOT LIGHT		D ABBREVIATIONS ON THE DRAWINGS SHALL BE IN		
	#	EQUIPMENT IDENTIFICATION		() TEMPERATURE TRANSMITTER		GENDS WHEREVER APPLICABLE. NOT ALL SYMBOL E NECESSARILY USED FOR THE PROJECT. ALL SIZI		
<u>a</u>	\leq		\sim		OTHERWISE	NOTED.		
Ľ		FILTER	(II)	TEMPERATURE TRANSMITTER WITH SUN SHIELD		LINEWEIGHT LEGEND		
	(FS)	FLOW SWITCH	Ţ	THERMOSTAT				
	(н)	HUMIDITY SENSOR	TC	THERMOSTAT & CO2		-EXISTING TO REMAIN OR NOT IN CONTRACT		
		IN-LINE DEVICE	ТН) THERMOSTAT AND HUMIDITY SENSOR		DEMOLITION		
	(R)	INTERFACE RELAY	(тсн) THERMOSTAT, CO2 AND HUMIDITY SENSOR		-FUTURE WORK		
	$\widetilde{\frown}$	LIGHT (PILOT OR ANNUNCIATOR)	U U	THERMOWELL		GENERAL ABBREVIATIONS		
	\approx		V#	VALVE MOTOR ACTUATOR IDENTIFICATION	ABV	ABOVE	HWR	HOT WATER RETURN
	\searrow	LIGHT WITH AUDIO ANNUNCIATION	\succ]	AFF AFG	ABOVE FINISH FLOOR ABOVE FINISH GRADE	HWS IW	HOT WATER SUPPLY INDIRECT WASTE
	(LL)	LOW LIMIT FREEZESTAT	(WM	,	AF AHU	AIR FLOW AIR HANDLING UNIT	IE L	INVERT ELEVATION LONG
	\square	MOTOR STARTER		2-WAY MODULATING VALVE	AS AL	AIR SEPARATOR ALUMINUM	MFR MAP	MANUFACTURER MASTER ALARM PANEL
		MOTOR STARTER WITH CURRENT SENSING RELAY	\mathbb{A}	3-WAY MODULATING VALVE	AL AI AO	ALOMINOM ANALOG INPUT ANALOG OUTPUT	MAP MAX MIN	MASTER ALARM PANEL MAXIMUM MINIMUM
			\triangleleft	2-OR 3-WAY MODULATING VALVE (SEE PLANS OR DETAILS FOR REQUIREMENTS)	AAP	AREA ALARM PANEL	MNT	MOUNT(ED)
	-				AT BAS	ATTENUATOR BUILDING AUTOMATION SYSTEM	+XX" (N)	MOUNTING HEIGHT (AFF OR AFC
0		PIPING SYMBOLS	_		BLR BLDG	BOILER BUILDING	N.C. N.O.	NORMALLY CLOSED NORMALLY OPEN
Ŕ		/ALVE - 2-WAY CONTROL	ΥŢ	P-TRAP	CI CLG	CAST IRON CEILING	NIC OBVD	NOT IN CONTRACT OPPOSED BLADE VOLUME DAM
Ŕ	1 V	/ALVE - 3-WAY CONTROL	\bigcirc	PRESSURE GAUGE	CWP CWR	CHILLED WATER PUMP CHILLED WATER RETURN	OSA PSF	OUTSIDE AIR POUNDS PER SQUARE FOOT
\bowtie		/ALVE - GLOBE/THROTTLING	(PS)	PRESSURE SWITCH	CWS CIRC	CHILLED WATER SUPPLY CIRCULATION	PSI PRV	POUNDS PER SQUARE INCH PRESSURE REDUCING VALVE
:D) (S)	V	/ALVE - SOLENOID	Å	PRESSURE AND TEMPERATURE RELIEF VALVE	CO	CLEAN-OUT CLEAN-OUT IN WALL	RLF REQ'D	RELIEF FAN REQUIRED
\bowtie	N	/ALVE - SHUTOFF	\otimes	PRESSURE INDEPENDENT BALANCING VALVE	COTF	CLEAN-OUT TO FLOOR	RA	RETURN AIR
\mathbb{P}	⊐[] A	AIR SEPARATOR	(PS) P	PRESSURE SWITCH GAS & WATER PRESSURE REDUCING VALVE	COTG C	CLEAN-OUT TO GRADE	RF RC	RETURN FAN ROOF COWL
R R		ANGLE VALVE	\bigcirc	(POINTS TOWARDS LOW PRESSURE)	CRP CU	CONDENSATE RETURN PUMP COPPER	RM SIM	ROOM SIMILAR
Δ		AUTOMATIC AIR VENT	\bigcirc	ROOF DRAIN	CFM DIA or Ø	CUBIC FEET PER MINUTE DIAMETER	SS SP	STAINLESS STEEL STATIC PRESSURE
		CAP CHECK VALVE	Ē	SANITARY CROSS	DI DO	DIGITAL INPUT DIGITAL OUTPUT	SC ST	STEAM CONVERTOR STORAGE TANK
			ዮ	SANITARY ELBOW	DDC DIV	DIRECT DIGITAL CONTROL DIVISION	SV SA	SUMP VENT SUPPLY AIR
\bigcirc			R F	SANITARY TEE IN DISER	DWG	DRAWING EACH	SF	SUPPLY FAN
¥ н		CLEAN-OUT (BELOW FLOOR OR GRADE)	-O-	SANITARY TEE IN RISER SHOWER HEAD	EA EMCS	ENERGY MANAGEMENT & CONTROL SYSTEM	TU TYP	TERMINAL UNIT TYPICAL
0	C	CLEAN-OUT (FLUSH TO FLOOR OR GRADE)	\bigcirc	SIGHT GLASS	EXH EA	EXHAUST EXHAUST AIR	UH VFD	UNIT HEATER VARIABLE FREQUENCY DRIVE
田		CROSS	$\bigtriangledown \dashv$	STRAINER	EF (E) ET	EXHAUST FAN EXISTING TO REMAIN	VEL VTR	VELOCITY VENT THRU ROOF
H T		REDUCER ELBOW	뵤	TEE	ET FC	EXPANSION TANK FAN COIL UNIT	WB WC	WALL BOX WATER COLUMN
Р (-		ELBOW DOWN	÷	TEE DOWN	FT FPM	FEET FEET PER MINUTE	WF WH	WATER FLOW WATER HEATER
0 O		ELBOW UP	수 수	TEE DOWN TO ELBOW TEE UP	FLR GPM	FLOOR, OR FLOOR MOUNTED GALLONS PER MINUTE	W W/	WIDE WITH
) E	EXPANSION JOINT	-ტ-	TEE UP TO ELBOW	GTV GA	GAS TANK VENT GAUGE	W/IN W/O	WITHIN WITHOUT
\prec) F	IRE DEPARTMENT CONNECTION	-Ò-	TEE UP TO RISE	GF GRD	GLYCOL FEEDER GRILL/REGISTER/DIFFUSER	ZVB	ZONE VALVE BOX
\boxtimes			Į	THERMOMETER	HWP	HEATING WATER PUMP		
		ELOOR DRAIN (ROUND OR SQUARE)		THERMOWELL	HT H	HEIGHT HIGH		
		LOOK SINK		THRUST RESTRAINT		MECHANICAL ABBREVIATIONS		
1%		FLOW DIRECTION AND SLOPE	- ⊦ -	UNION/FLANGE/COUPLING	AHU-#		HP-#	HEAT PUMP
FS	> F	FLOW SWITCH	● H	VALVE IN RISER	AS-# AT-#	AIR SEPARATOR ATTENUATOR NUMBER	L-# MAU-	LOUVER NUMBER -# MAKE UP AIR UNIT
ò	- 0	GAUGE COCK	T	VALVE WITH TAMPER SWITCH	BLR-# CD-#		RC-# RG-#	ROOF COWL NUMBER
, Ť			\square	VENTURI	CH-#	CHILLER CONDENSER UNIT NUMBER		# ROOFTOP UNIT
	·//	HOSE BIBB/WALL HYDRANT		VENT THRU ROOF	CU-# EF-#	EXHAUST FAN NUMBER	SC-#	STEAM CONVERTOR
Ô △		/ANHOLE/DRYWELL /ANUAL AIR VENT	ļ	WATER HAMMER ARRESTER	EG-# EH-#	EXHAUST GRILLE ELECTRIC HEATER	ST-# TU-#	TERMINAL UNIT
 ఆ(PENETRATION (FLOOR OR WALL)	$\sqrt{\mathbf{v}}$	WYE	ERU-# ET-#	EXPANSION TANK NUMBER	UH-# WH-#	# WATER HEATER
	-	PIPE ANCHOR	T		FC-# GF-#	FAN COIL UNIT GLYCOL FEEDER	VFD-i V-#	# VARIABLE FREQUENCY DRIVE VENTURI
2	F	PIPE CONTINUES ALTHOUGH NOT DRAWN				PLUMBING SPECIALTIES EQUIPMENT A		
=		PIPE GUIDE			AD-#	AREA DRAIN		# MED GAS CEILING OUTLET
	- F	PIPE SLEEVE			BFP-# DS-#	BACKFLOW PREVENTER DOWNSPOUT NOZZLE		# MED GAS WALL OUTLET MIXING VALVE
					ETP-# FD-#	ELECTRONIC TRAP PRIMER FLOOR DRAIN		OVERFLOW ROOF DRAIN
	<u>HVA</u>	<u>AC SYMBOLS</u>	Ĺ	– GRD TYPE	FS-#	FLOOR SINK	RD-#	ROOF DRAIN
\ge	REC	TANGULAR SUPPLY DUCT (SECTION)	Size TAG CFM	GRILLE/REGISTER/DIFFUSER INFORMATION	FPWH-# GI-#	FREEZE PROOF WALL HYDRANT GREASE INTERCEPTOR	TD-# WHA-#	TRENCH DRAIN WATER HAMMER ARRESTOR
	REC	TANGULAR RETURN DUCT (SECTION)	1	– AIR FLOW RATE (CFM)	HB-#	HOSE BIBB		
	REC	TANGULAR EXHAUST DUCT (SECTION)		– SIZE		PLUMBING FIXTURES EQUIPMENT ANNO		
	REC	TANGULAR OSA DUCT (SECTION)	(T)	THERMOSTAT	BT-# DF-#	BATH TUB DRINKING FOUNTAIN	MS-# SK-#	MOP SINK SINK
\otimes		ND SUPPLY DUCT (SECTION)	\bigcirc	SUPPLY AIR FLOW	EW-# EWSS-#	EYE WASH	SH-# UR-#	SHOWER URINAL
\bigotimes		ND RETURN DUCT (SECTION)		RETURN AIR FLOW	LV-#	LAVATORY	WC-#	WATER CLOSET
						PLUMBING EQUIPMENT ANNOTATION		
\bigotimes			\sim		AC-#	AIR COMPRESSOR	SEJ-#	SEWAGE EJECTOR
\bigotimes		ND OSA DUCT (SECTION)		SECURITY GRILLE TYPE	BP-# CT-#	BOOSTER PUMP COMPRESSION TANK	ST-# SP-#	STORAGE TANK SUMP PUMP
	FLAT	OVAL SUPPLY DUCT (SECTION)	<u> </u>	DAMPER MOTOR OPERATOR	HWRP-# MAC-#	HOT WATER RECIRCULATION PUMP MEDICAL AIR COMPRESSOR	VP-# WH-#	VACUUM PUMP WATER HEATER
			X X X		MXC-# MVP-#	MEDICAL VACUUM PUMP	WS-#	WATER SOFTENER
		MINUM/STAINLESS STEEL DUCTWORK SPECIFIED)		TERMINAL BOX, HEAT PUMP, OR FAN COIL UNIT				
┥ ┾	- AIR 1	TRANSFER DUCT SLEEVE		DUCT SECURITY GRILLE				
	FLEX			RECTANGULAR SUPPLY DIFFUSER (ARROWS INDICATE THROW)				

	<u>PIPING SYMBOLS</u>
	VALVE - 2-WAY CONTROL
	VALVE - 3-WAY CONTROL
	VALVE - GLOBE/THROTTLING
	VALVE - SOLENOID
	VALVE - SHUTOFF
1	AIR SEPARATOR
-	ANGLE VALVE
	AUTOMATIC AIR VENT
	CAP
	CHECK VALVE
	CIRCUIT SETTER
	CIRCULATING PUMP
	CLEAN-OUT (BELOW FLOOR OF
	CLEAN-OUT (FLUSH TO FLOOR
	CROSS
	REDUCER
	ELBOW
	ELBOW DOWN
	ELBOW UP
	EXPANSION JOINT
	FIRE DEPARTMENT CONNECTION
	FLEXIBLE CONNECTION
)	FLOOR DRAIN (ROUND OR SQU
	FLOOR SINK
	FLOW DIRECTION
	FLOW DIRECTION AND SLOPE
	FLOW SWITCH
	GAUGE COCK
< ///	HOSE BIBB/WALL HYDRANT
//	MANHOLE/DRYWELL
	MANUAL AIR VENT
	PENETRATION (FLOOR OR WAL
	PIPE ANCHOR
	PIPE CONTINUES ALTHOUGH N
	PIPE GUIDE
	PIPE SLEEVE

\ge	RECTANGULAR SUPPLY DUCT (SECTION)
	RECTANGULAR RETURN DUCT (SECTION)
\searrow	RECTANGULAR EXHAUST DUCT (SECTION)
\searrow	RECTANGULAR OSA DUCT (SECTION)
\otimes	ROUND SUPPLY DUCT (SECTION)
\oslash	ROUND RETURN DUCT (SECTION)
\bigotimes	ROUND EXHAUST DUCT (SECTION)
\otimes	ROUND OSA DUCT (SECTION)
\bigcirc	FLAT OVAL SUPPLY DUCT (SECTION)
	DUCTWORK WITH INTERNAL LINING
	ALUMINUM/STAINLESS STEEL DUCTWORK (AS SPECIFIED)
▲ ┾	AIR TRANSFER DUCT SLEEVE
++++	FLEXIBLE DUCT
← ^{UP} DN →	DUCT OFFSET AND DIRECTION
	ROUND/OVAL MITERED ELL W/ TURNING VANES
(r)	TURNING VANES
ম্ন্ট্ৰ	AIR SPLIT TAKEOFF
	BALANCE/VOLUME DAMPER (SEE SPECS FOR TYP
	BALANCE/VOLUME DAMPER (SEE SPECS FOR TYP
	MOTORIZED CONTROL DAMPER
	FIRE/SMOKE DAMPER
12"x12"	RECTANGULAR DUCT SIZE (WIDTHxDEPTH)
12"ø	CIRCULAR DUCT DIAMETER
12"/12	FLAT OVAL DUCT SIZE (WIDTH/DEPTH)

FLAT OVAL DUCT SIZE (WIDTH/DEPTH)

→► SPECS FOR TYPE)

 \rightarrow

 \frown

RECTANGULAR RETURN REGISTER/GRILLE

RECTANGULAR EXHAUST REGISTER/GRILLE/HOOD

(ARROWS INDICATE THROW)

(ARROWS INDICATE THROW)

(ARROWS INDICATE THROW)

(ARROWS INDICATE THROW)

LINEAR DIFFUSER

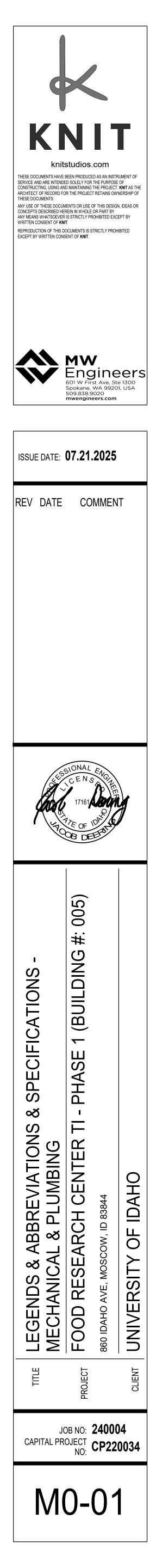
CIRCULAR DIFFUSER

SIDEWALL DIFFUSER

LOUVEF

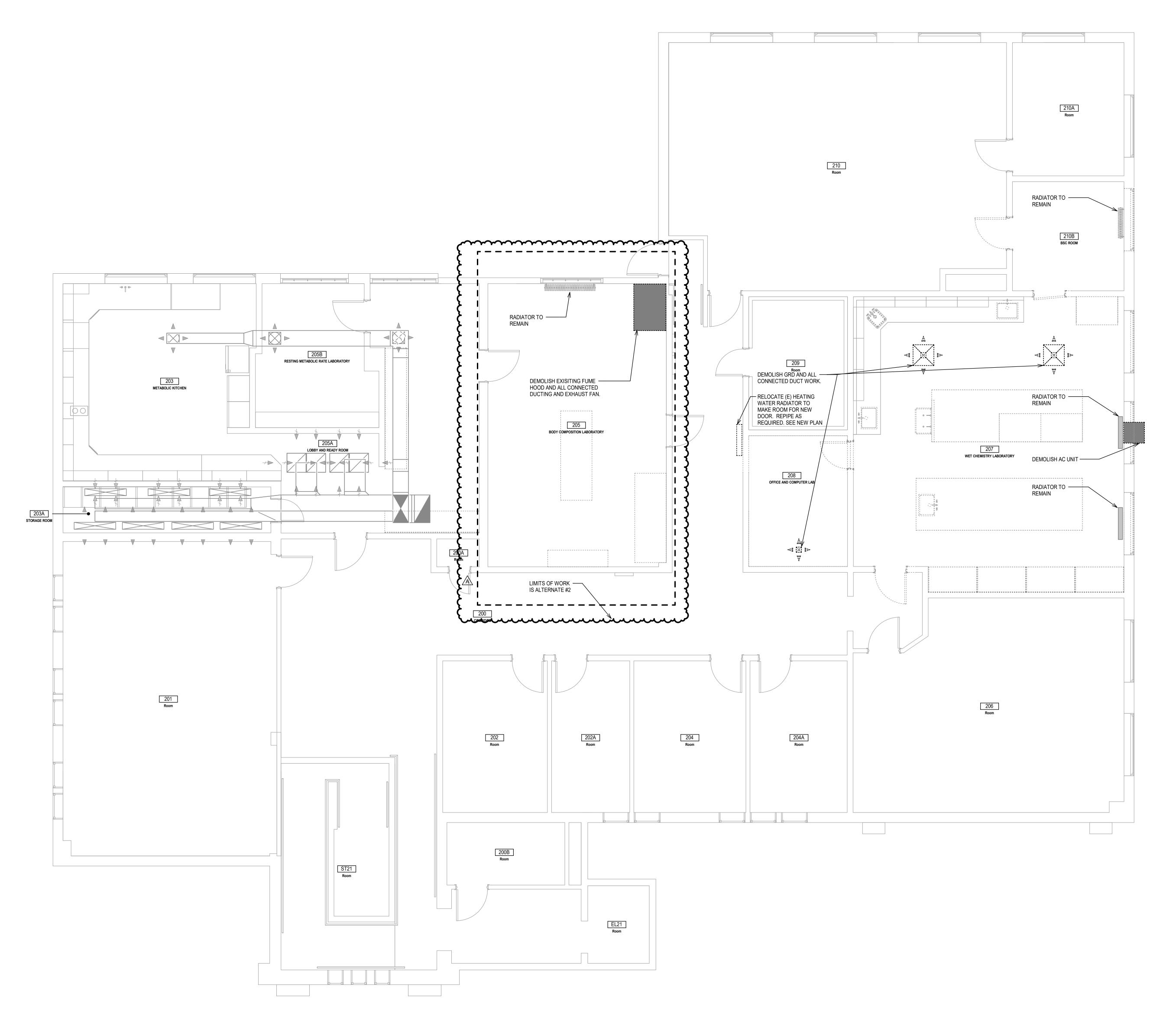
UNIT HEATER

SPECS FOR TYPE)

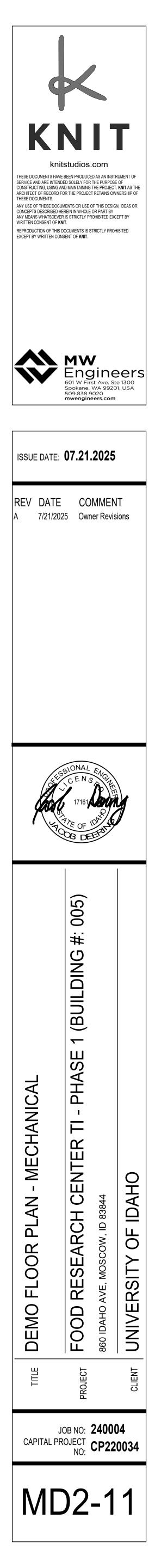


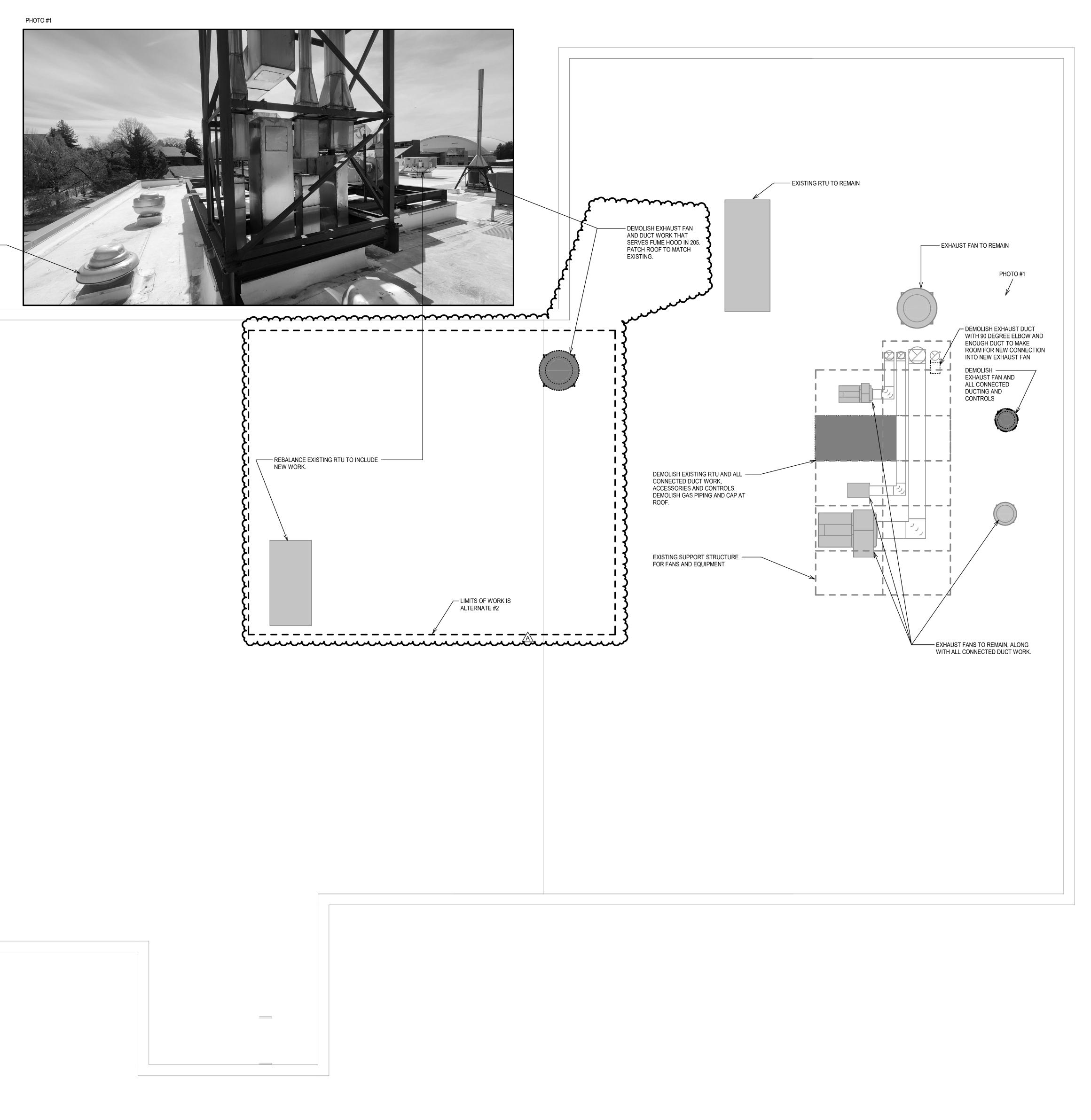
AFG)

AMPER



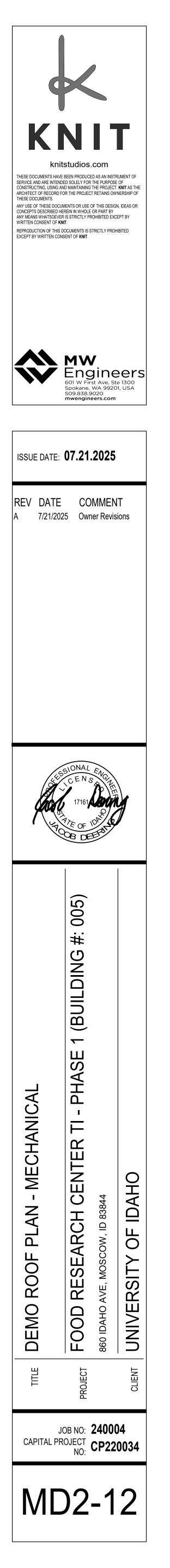
LEVEL 2 - DEMOLITION PLAN - MECHANICAL 1/4" = 1'-0"

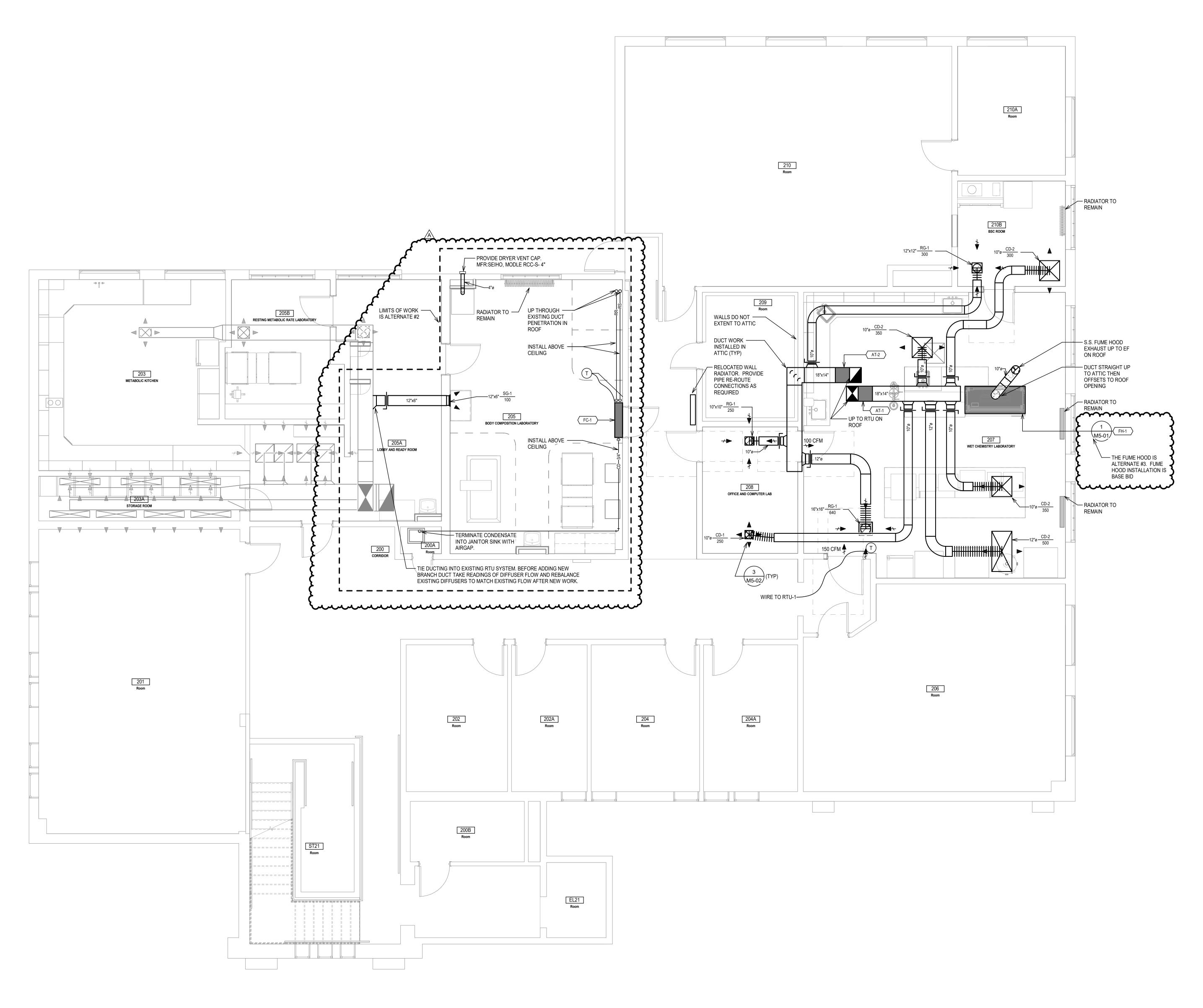




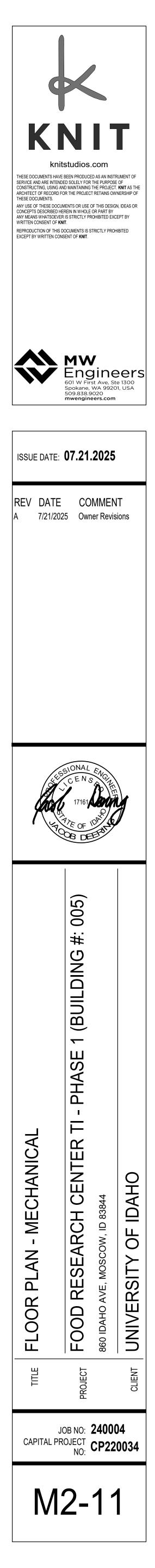
EXHAUST FAN TO BE DEMOLISHED



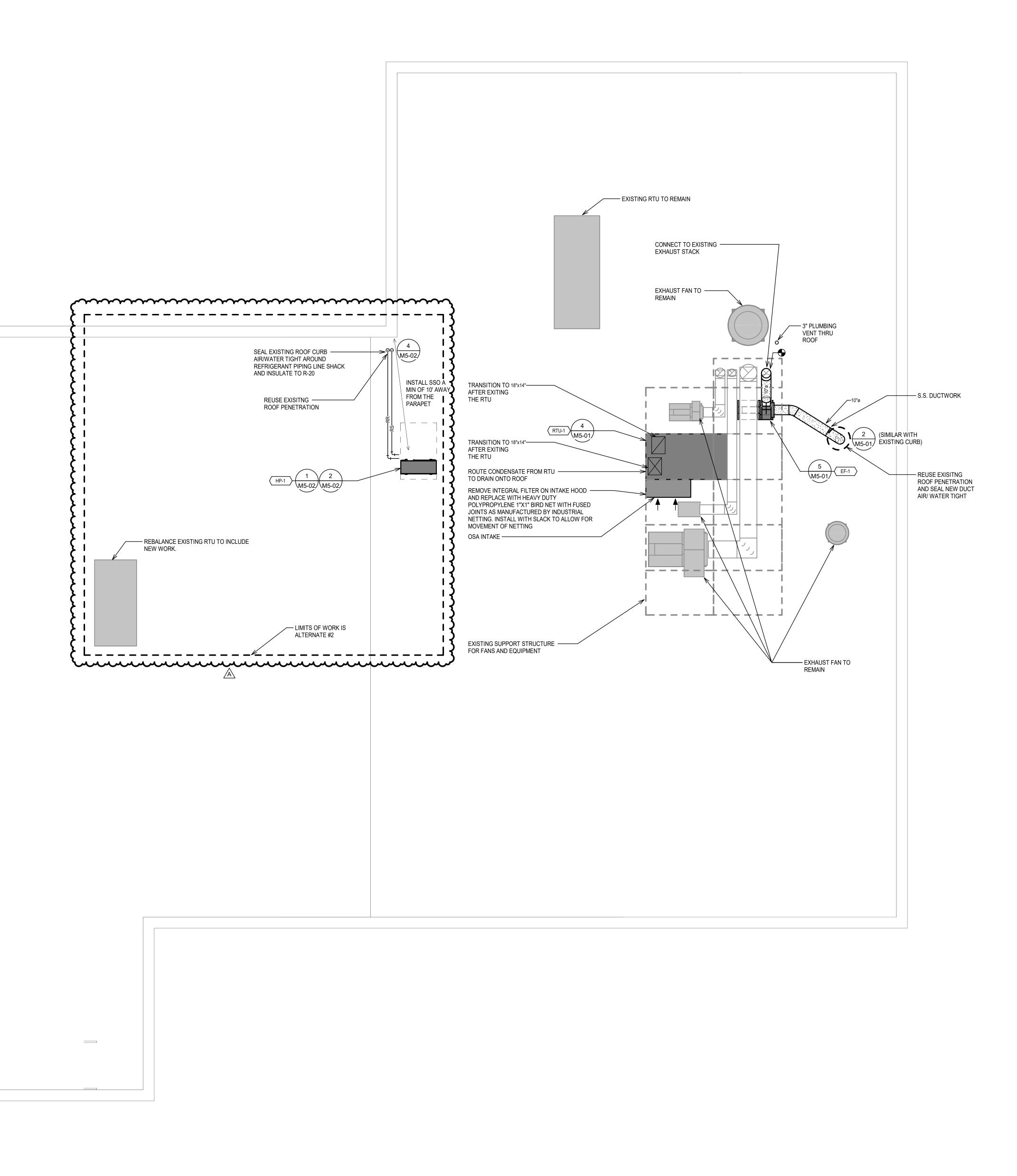


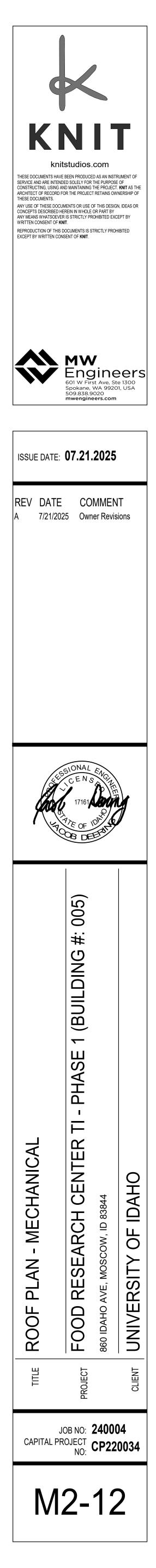


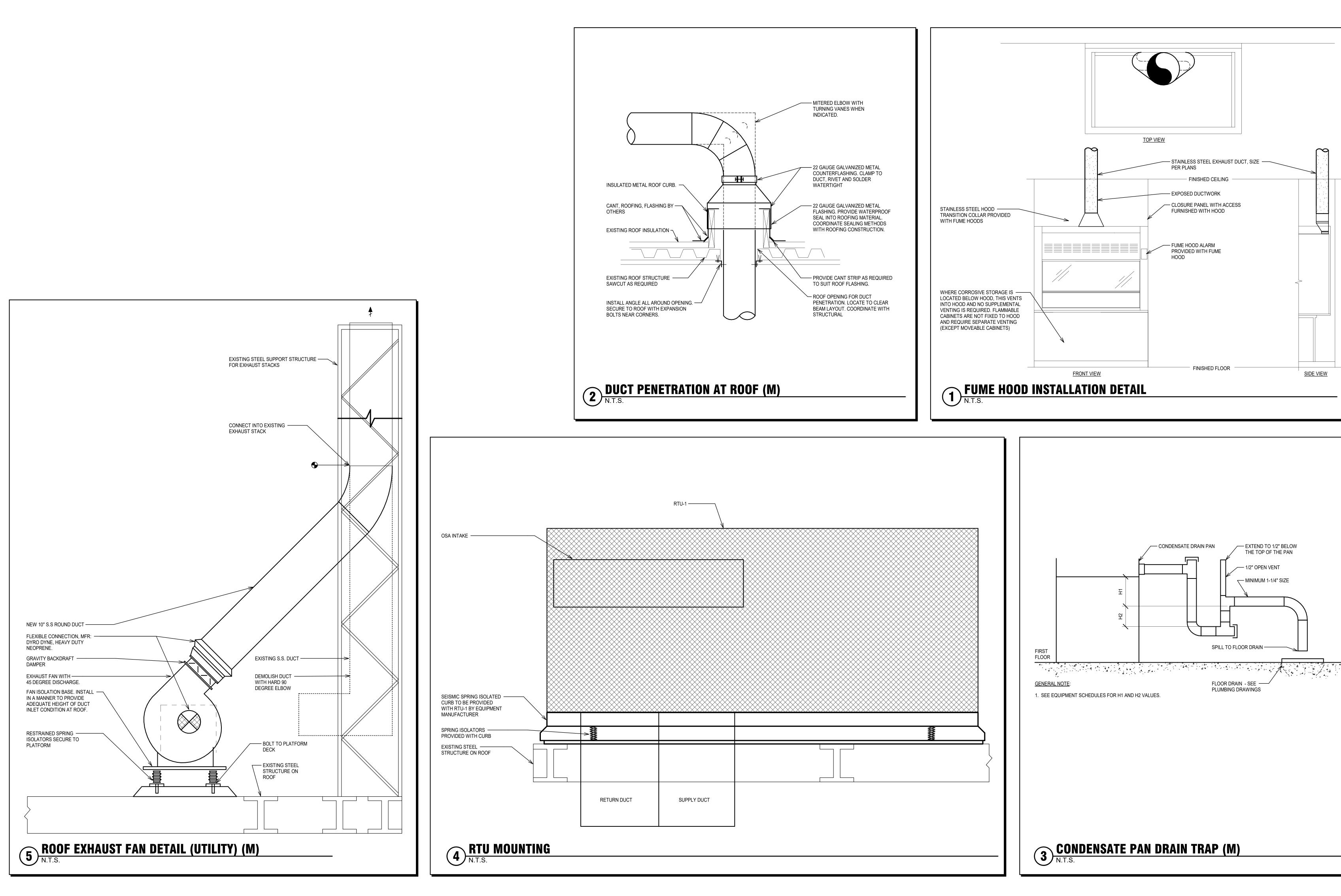
LEVEL 2 - MECHANICAL 1/4" = 1'-0"

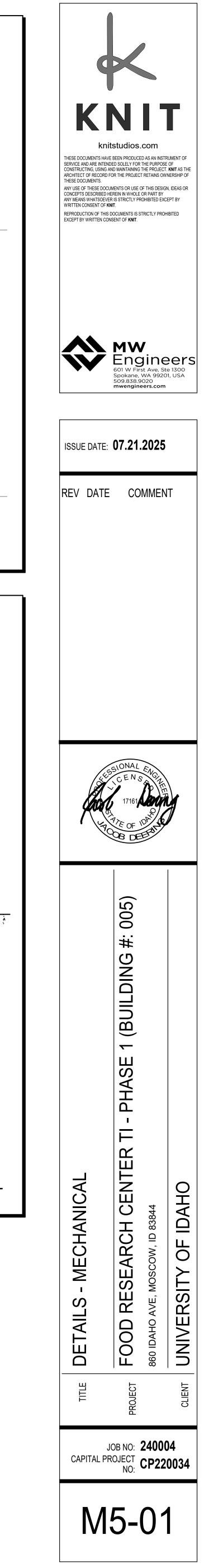


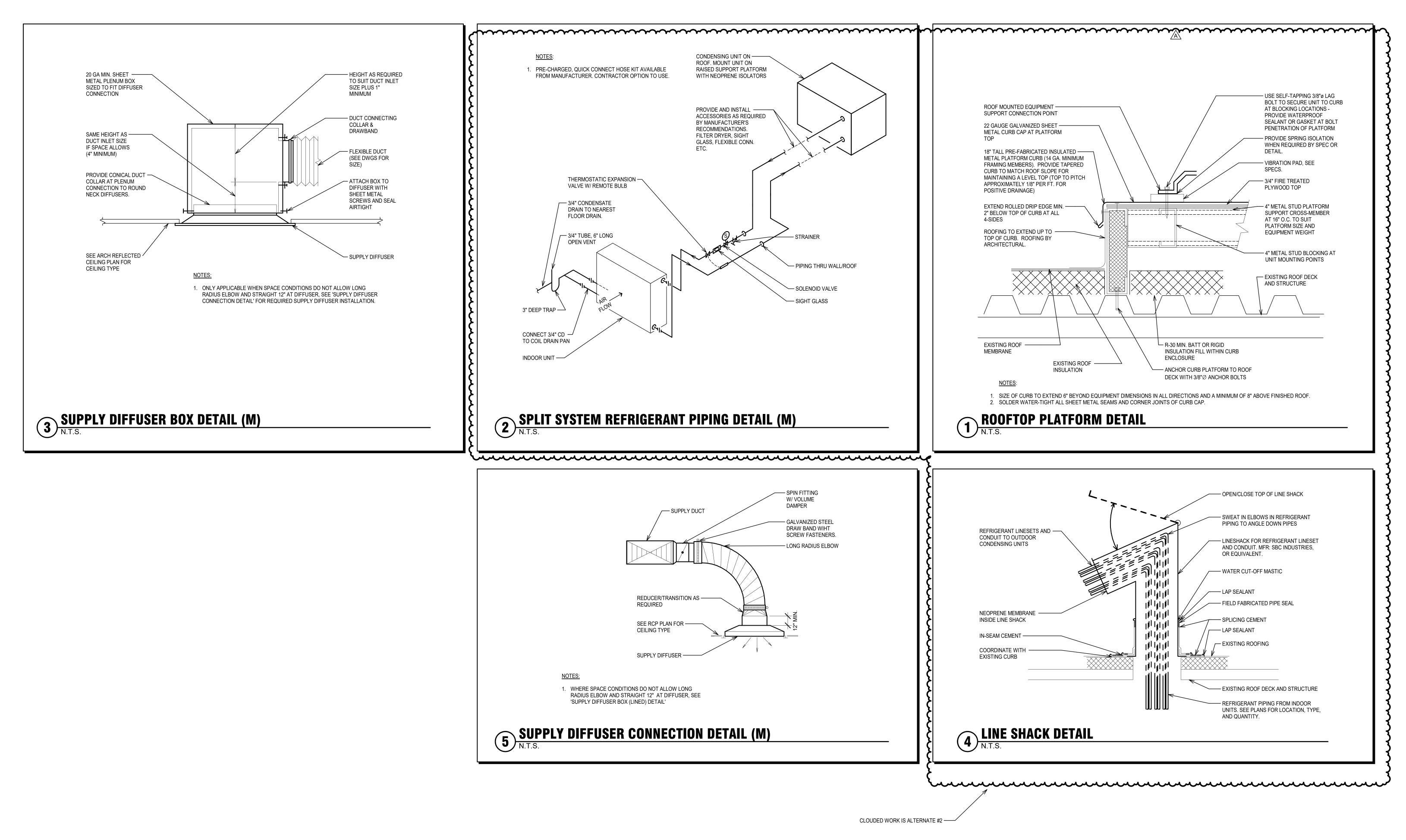


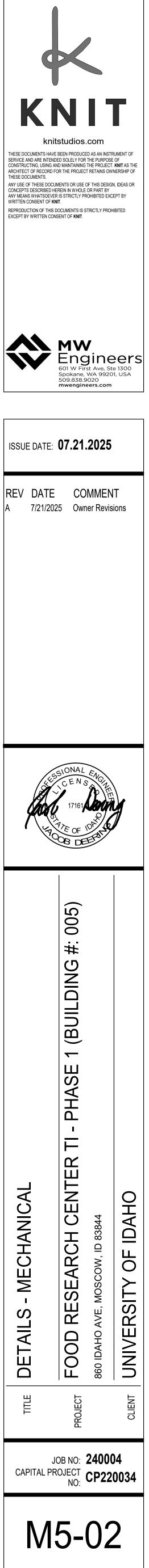








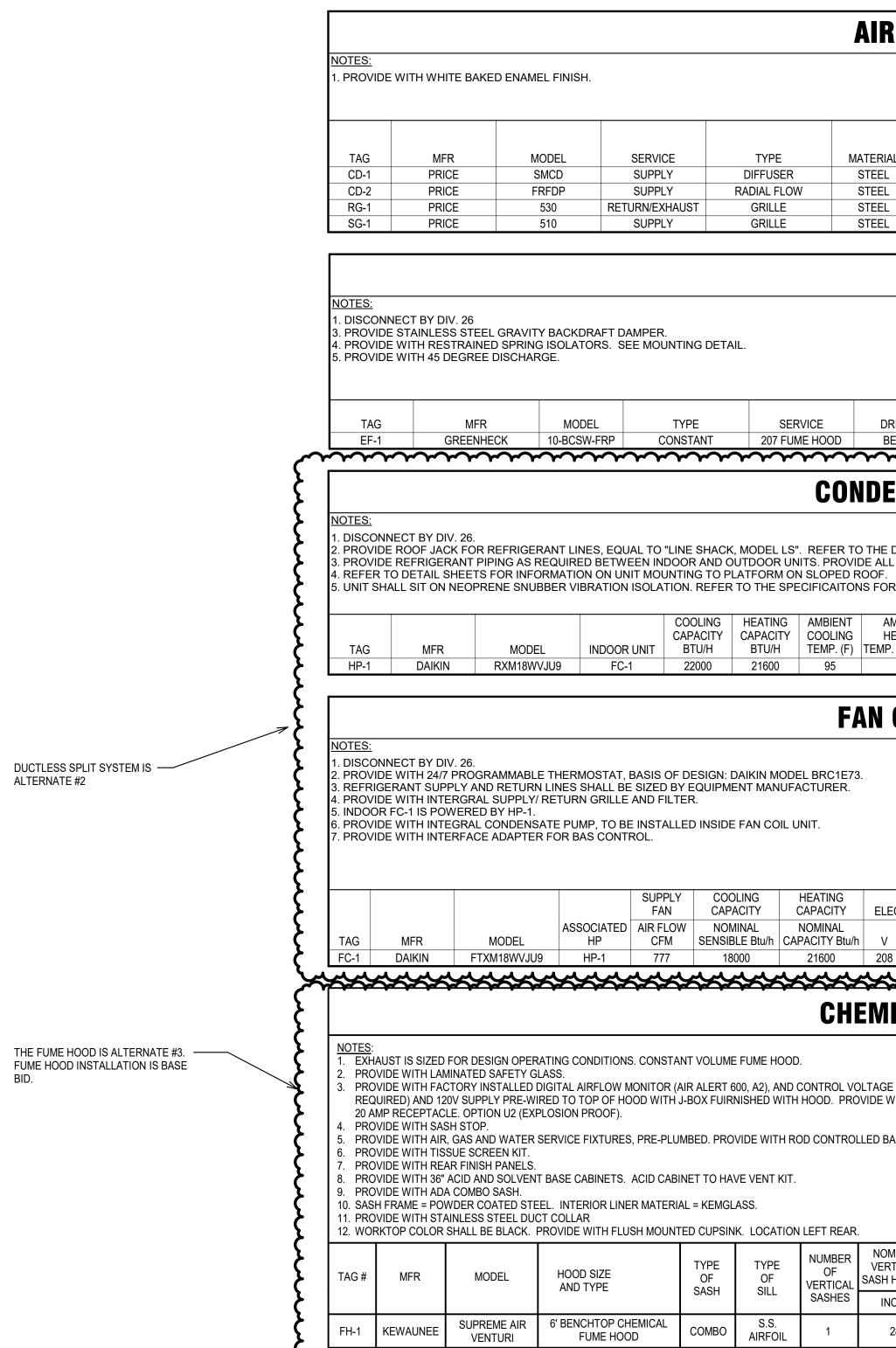




											PAC	KAGI	ED RO	OFT	0P /	AIR HAN	IDLI	NG (JNIT	'S W	ITH EI	.EC HE/	AT										
2. FURNISH TRAP DETA 3. PROVIDE 4. DISCONN	(4) 14"x20"x2" M WITH WITH CO IL. GASKETS AT A IECT BY DIV. 26 WITH CLASS I	ONDESATE TRA ALL CONTACT F 3.	P WITH POINTS	BETWEE	N UNIT A	ND ROOF (te pan i	DRAIN 1	7. PROVI 3. EER A 9. PROVI 0. PROVI	DE WITH ECM DE WITH MOE ND SEER/IEEF DE WITH SPR DE WITH 1 YE DE UNIT WITH	DULATING R LISTED A ING ISOLA AR WARR	T AHRI RAT TION CURB ANTY AND 5	ING CONE 5 YEAR PAI	DITIONS.	ITED WARRANTY	<i>′</i> .																
				SUPPLY F	AN	_		TE	MP (F)		HEAT P DESIGN	UMP COOLI	NG COIL				CONDEN	NSER FAN	S COMF	PRESSOR		HEA	AT PUMP AN	D ELECTR		ing 1P (F)				ELECTR			OPERATING
TAG	MFR	SERIES	CFN	I ESP	HP	MIN. OSA CFM	EAT D	B EAT	LAT DE	LAT WB	AMBIENT TEMP	TOTAL BTU/H	SENSIBLE BTU/H	SEER2	EER2	REFRIGERANT	#	FLA	#	FLA	CAP (BTU/H)	COP AT 47°F	HSPF2	CFM	EAT DB	LAT DB	kW	STAGES	MCA	MOCP	V	PH	WEIGHT (LBS)
RTU-1	DAIKIN	DSH	1,750) 1.20	2.30	560	80	63	52	52	101	53,990	53,989	16.8	12.2	R-32	1	7.7	1	15.2	59000	3.9	7.7	1750	39	97	15	4	69.3	70	208	3	630

NOTES:							
AND AIRFLO	OW PERFORMANCE) WI	TH AIR FLOWING	G THROUGH THE SILEN	STM E477 STANDARD (STAN CERS, BOTH WITH AND AGAI ′ THAT IS NVLAP-ACCREDITE	NST AIRFLOW. A NE	EGATIVE FAC	
						ATTEN	IUATOR DIME
						WIDTH	HEIGHT
TAG	MFR	MODEL	SERVICE	STYLE	MATERIAL	(")	(")
AT-1	VIBRO-ACOUSTICS	REFL-UHV-F8	RTU SUPPLY	ELBOW ATTENUATOR	GALVANIZED	14"	18"
AT-2	VIBRO-ACOUSTICS	REFL-MV-F8	RTU RETURN	ELBOW ATTENUATOR	GALVANIZED	14"	18"

BID.



SOUND ATTENUATOR

MATERIALS AND PREFABRICATED SILENCERS FOR ACOUSTICAL ITY IMPLIES SOUND TRANSMISSION IN THE OPPOSITE DIRECTION TO

/EN	SIONS			SILENCER APD			DYNA	AMIC INS	ERTION I	LOSS			
-	LENGTH	FLOW	VELOCITY	W/ SYSTEM			SEL	F GENEF	RATED NO	DISE			
	(")	(CFM)	(FPM)	EFFECTS (")	63	125	250	500	1000	2000	4000	8000	NOTES
	48"	1750	1000	0.13	4	4	7	11	16	26	25	18	
	48"	1100	629	0.10	6	9	14	23	28	33	33	23	

AIR INLETS & OUTLETS

							BLADE		
						SPC		DEFL.	
MODEL	SERVICE	TYPE	MATERIAL	MOUNTING	PATTERN	(")	POS	(")	NOTES
SMCD	SUPPLY	DIFFUSER	STEEL	SURFACE	4-WAY	-	ADJ	-	1
FRFDP	SUPPLY	RADIAL FLOW	STEEL	SURFACE	2-WAY	-	-	-	1
530	RETURN/EXHAUST	GRILLE	STEEL	SURFACE	FIXED	1/2	HOR	45	1
510	SUPPLY	GRILLE	STEEL	SIDEWALL	FIXED	1/2	HOR	45	1

EXHAUST FANS

3. PROVIDE STAINLESS STEEL GRAVITY BACKDRAFT DAMPER. 4. PROVIDE WITH RESTRAINED SPRING ISOLATORS. SEE MOUNTING DETAIL.

						Т СОПЕ								
$\overline{}$	\cdots	\cdot	\cdots	\sim	\cdots	\sim	\sim	\sim	\sim	\sim				
Ж	10-BCSW-FRP	CONSTANT	207 FUME HOOD	BELT	810	1.00	1009	7.5	0.26	0.33	208	1	ALL	
	MODEL	TYPE	SERVICE	DRIVE	MAX CFM	ESP (")	FAN RPM	SONE LEVEL	BHP	HP	V	PH		NO
										MO	TOR			
	1				1			1						

CONDENSING UNIT SCHEDULE

2. PROVIDE ROOF JACK FOR REFRIGERANT LINES, EQUAL TO "LINE SHACK, MODEL LS". REFER TO THE DETAIL SHEETS FOR MORE INFORMATION. 3. PROVIDE REFRIGERANT PIPING AS REQUIRED BETWEEN INDOOR AND OUTDOOR UNITS. PROVIDE ALL ACCESSORIES AND REFNET JOINTS AS REQUIRED BY THE MANUFACTURER.

5. UNIT SHALL SIT ON NEOPRENE SNUBBER VIBRATION ISOLATION. REFER TO THE SPECIFICAITONS FOR MORE INFORMATION.

		COOLING CAPACITY	HEATING CAPACITY	AMBIENT COOLING		REFRIGERANT							OPERATING		
MODEL	INDOOR UNIT	BTU/H	BTU/H	TEMP. (F)	TEMP. (F, DB/WB)	TYPE	MCA	MOCP	RLA	V	PH	SEER2/EER2	WEIGHT (LBS)		NOTES
KM18WVJU9	FC-1	22000	21600	95	47	R-32	18.8	20	18.3	208	1	22.7/12.5	250.00	ALL	

FAN COIL UNIT SCHEDULE

		SUPPLY FAN	COOLING CAPACITY	HEATING CAPACITY	ELECT	RICAL			
EL	ASSOCIATED HP		NOMINAL SENSIBLE Btu/h	NOMINAL CAPACITY Btu/h	V	PH	SOUND dBA	NOTES	
WVJU9	HP-1	777	18000	21600	208	1	49	ALL	
XX		****		****	***	***		$ \qquad \qquad$	ŕ

CHEMICAL FUME HOODS

NOTES: 1. EXHAUST IS SIZED FOR DESIGN OPERATING CONDITIONS. CONSTANT VOLUME FUME HOOD.

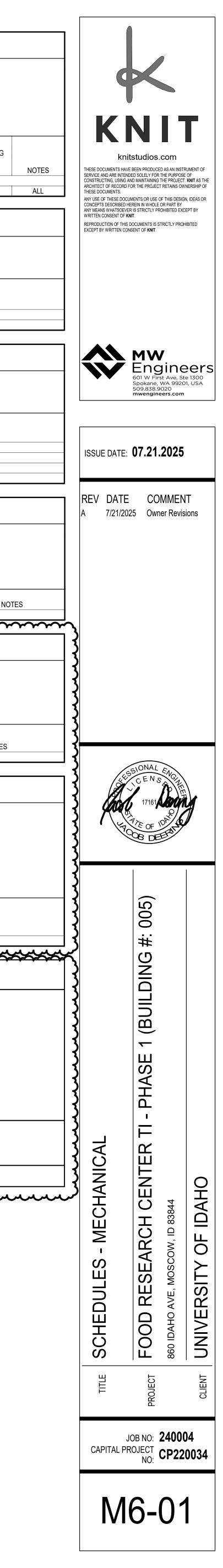
PROVIDE WITH FACTORY INSTALLED DIGITAL AIRFLOW MONITOR (AIR ALERT 600, A2), AND CONTROL VOLTAGE TRANSFORMER (IF REQUIRED) AND 120V SUPPLY PRE-WIRED TO TOP OF HOOD WITH J-BOX FUIRNISHED WITH HOOD. PROVIDE WITH BLACK COLORED QUAD

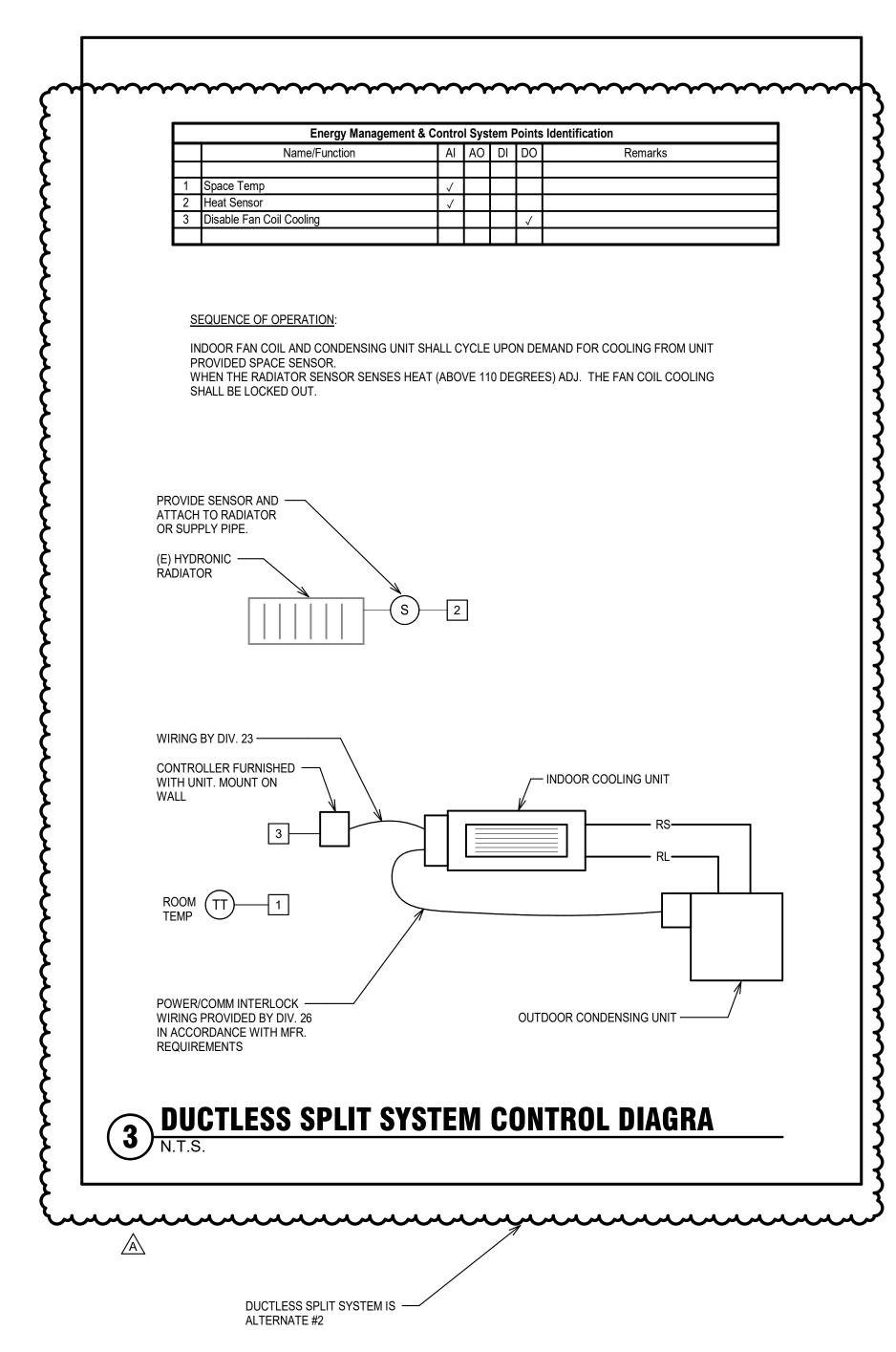
PROVIDE WITH AIR, GAS AND WATER SERVICE FIXTURES, PRE-PLUMBED. PROVIDE WITH ROD CONTROLLED BALL VALVES.

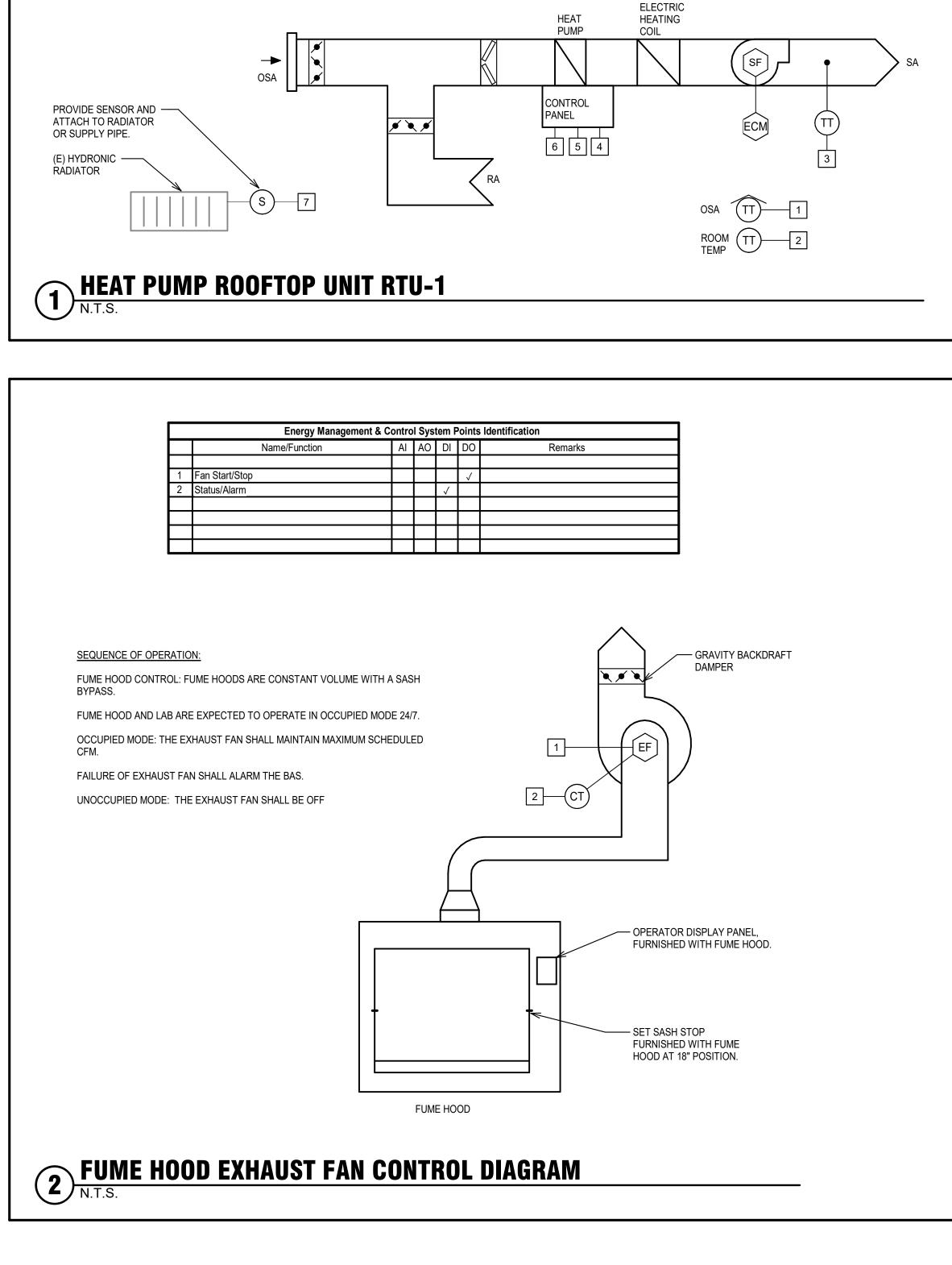
. PROVIDE WITH 36" ACID AND SOLVENT BASE CABINETS. ACID CABINET TO HAVE VENT KIT.

10. SASH FRAME = POWDER COATED STEEL. INTERIOR LINER MATERIAL = KEMGLASS.

						NUMBER	NOMINAL	DESIGN OP	ERATING CO	NDITIONS		MAX HOOD				
TAG #	MFR	MODEL	HOOD SIZE AND TYPE	TYPE OF SASH	TYPE OF SILL	OF	VERTICAL SASH HEIGHT	SASH OPENING	FACE VELOCITY	AIRFLOW	MIN AIR FLOW	STATIC	EXH CONN. SIZE	ELECTRICAL CONNECTION	NOTES	
				ЗАЗП	SILL	SASHES	INCH	INCH	FPM	CFM	FLOW	DROP	SIZE			
FH-1	KEWAUNEE	SUPREME AIR VENTURI	6' BENCHTOP CHEMICAL FUME HOOD	СОМВО	S.S. AIRFOIL	1	28	18	100	810	810	0.25"	12"	120V/1PH	ALL	







UNOCCUPIED MODE DEMAND FOR UNOCCUPIED PERIOD HEATING/COOLING SHALL OPERATE AS DESCRIBED IN OCCUPIED MODE. UNOCCUPIED HEATING SETPOINTS SHALL BE 10 DEGREES LOWER AND COOLING SHALL BE 10 DEGREES HIGHER THEN OCCUPIED SETPOINTS. UNIT IS EXPECTED TO OPERATE 24 HOURS A DAY TO PROVIDE MAKEUP AIR TO THE FUME HOOD EXHAUST FAN.

OUTSIDE AIR DAMPER SHALL BE SET TO A FIXED POSITION TO SUPPLY MAKE-UP AIR TO THE FUME HOOD EXHAUST.

THE CONDENSING UNIT FACTORY CONTROLS SHALL START/STOP/MODULATE THE CONDENSING UNIT FAN.

A CALL FOR COOLING TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SHALL ENABLE THE HEAT PUMP COOLING. COOLING SETPOINT SHALL BE RESET BETWEEN 52 AND 60 (ADJ). THE COMPRESSOR SHALL BE ENABLED AND SHALL MODULATE TO MAINTAIN THE REQUIRED DISCHARGE AIR TEMPERATURE. THE REFRIGERATION CONTROLS SHALL BE SENSITIVE TO RAPID CYCLING OF COMPRESSORS AS IT AFFECTS COOLING COIL DISCHARGE AIR TEMPERATURE STABILITY. WHEN THE RADIATOR SENSOR SENSES HEAT (ABOVE 110 DEGREES) ADJ. THE RTU COOLING SHALL BE LOCKED OUT.

STAGE OF HEATING. ADDITIONAL CALL FOR HEAT SHALL ENABLE THE ELECTRIC RESISTANCE HEATING. THE HEATING COIL SHALL MODULATE STAGES OF HEAT TO MAINTAIN THE LEAVING AIR TEMPERATURE SETPOINT. THE REVERSE SHALL OCCUR UPON A REDUCED DEMAND FOR HEATING.

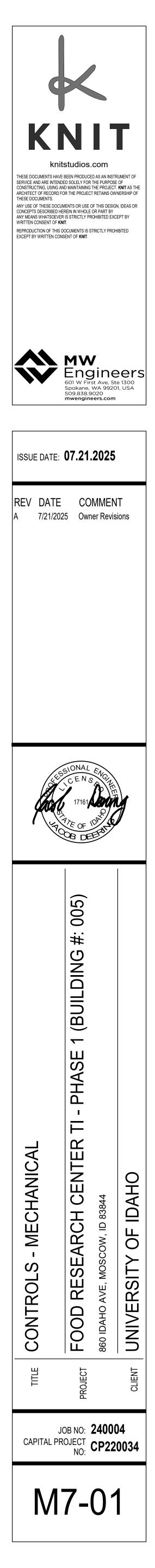
THE SUPPLY FAN SHALL BE ON AND SHALL OPERATE CONTINUOUSLY. WITH NO DEMAND FOR COOLING (SPACE TEMPERATURE SATISFIED) AND A CALL FOR HEATING, THE HEAT PUMP SHALL OPERATE AS THE FIRST STAGE OF HEATING. ADDITIONAL CALL FOR HEAT SHALL ENABLE THE ELECTRIC RESISTANCE HEATING. THE HEATING COIL SHALL MODULATE

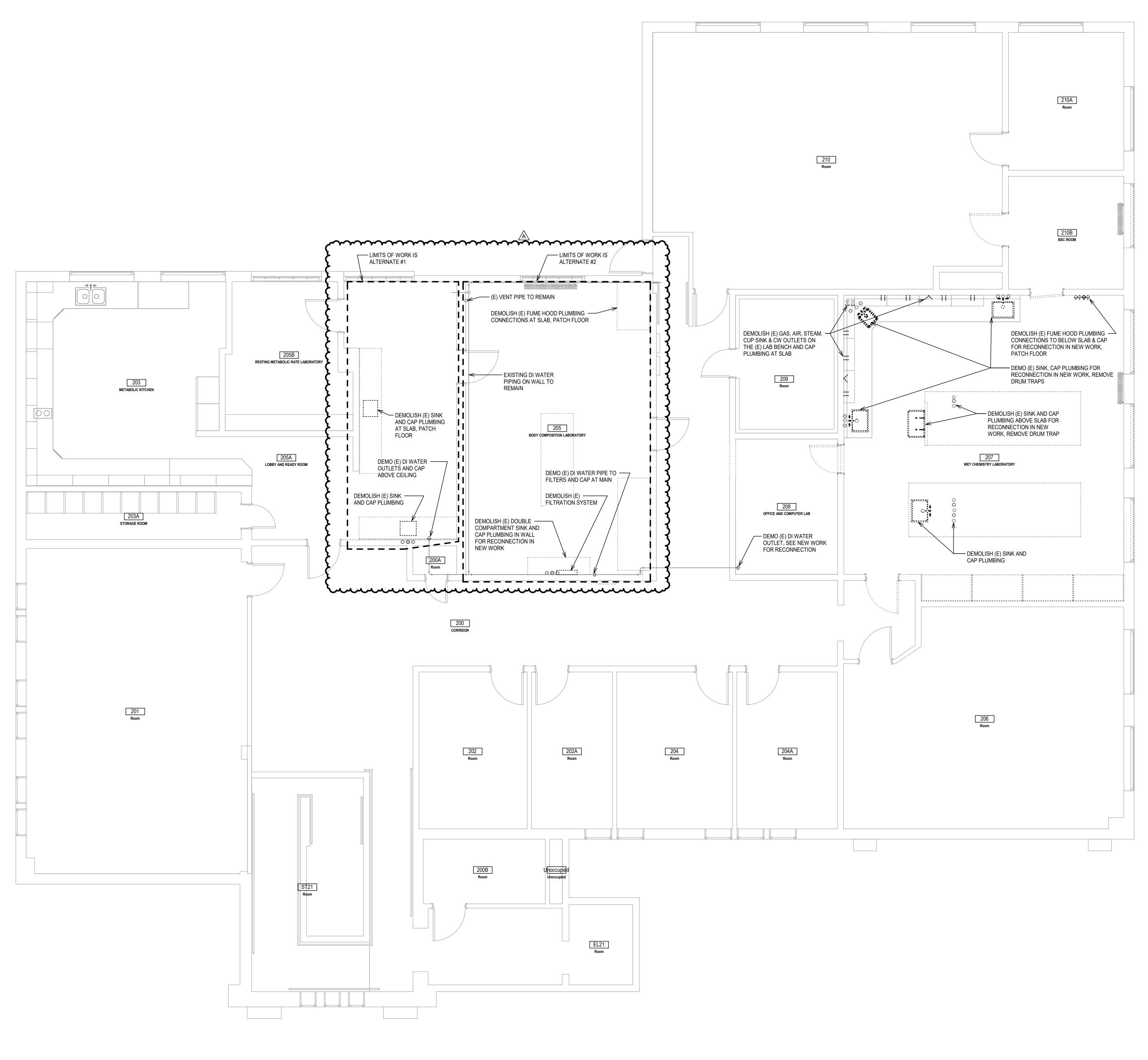
OCCUPIED MODE

FAILURE OF FUME HOOD EXHAUST FAN EF-1 SHALL DISABLE THE RTU.

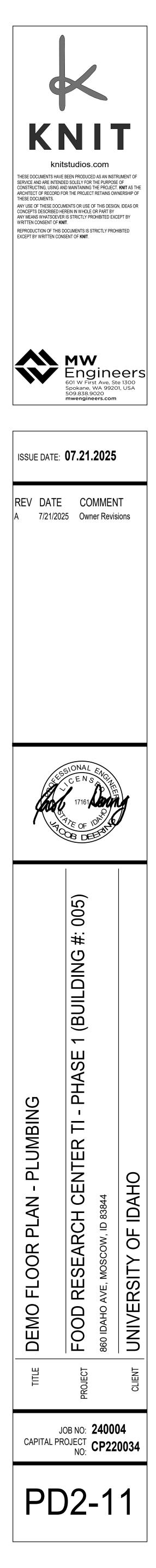
SEQUENCE OF OPERATION

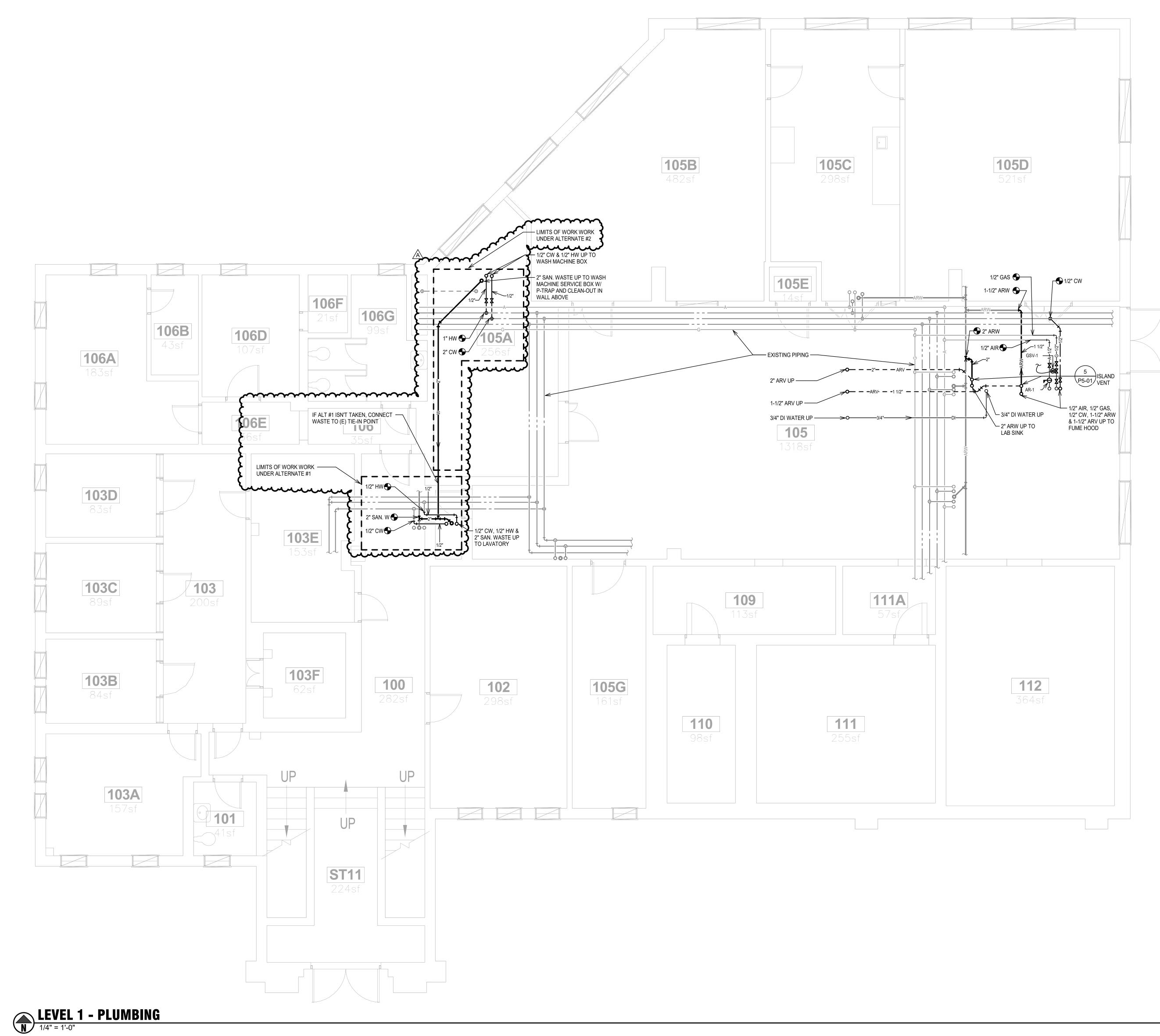
	Energy Management & Control System Points Identification										
	Name/Function	Al	AO	DI	DO	Remarks					
1	Space Temp	\checkmark									
2	OSA Temp	\checkmark									
3	Discharge Temp	\checkmark									
4	Heat Pump Status/Alarm			\checkmark							
5	Heat Pump Enable/Disable				\checkmark						
6	Heat/Cool Enable/Disable				\checkmark						
7	Heat/Cool Enable/Disable	\checkmark									



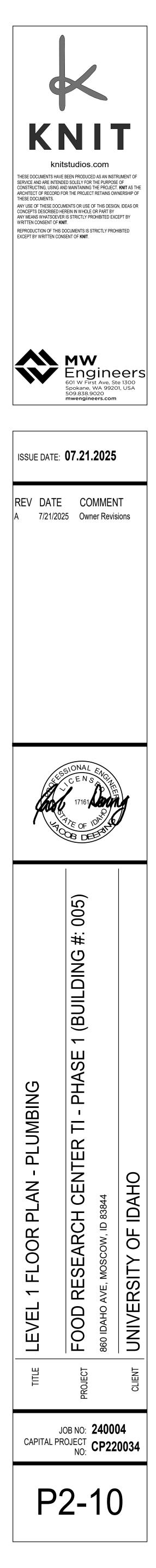


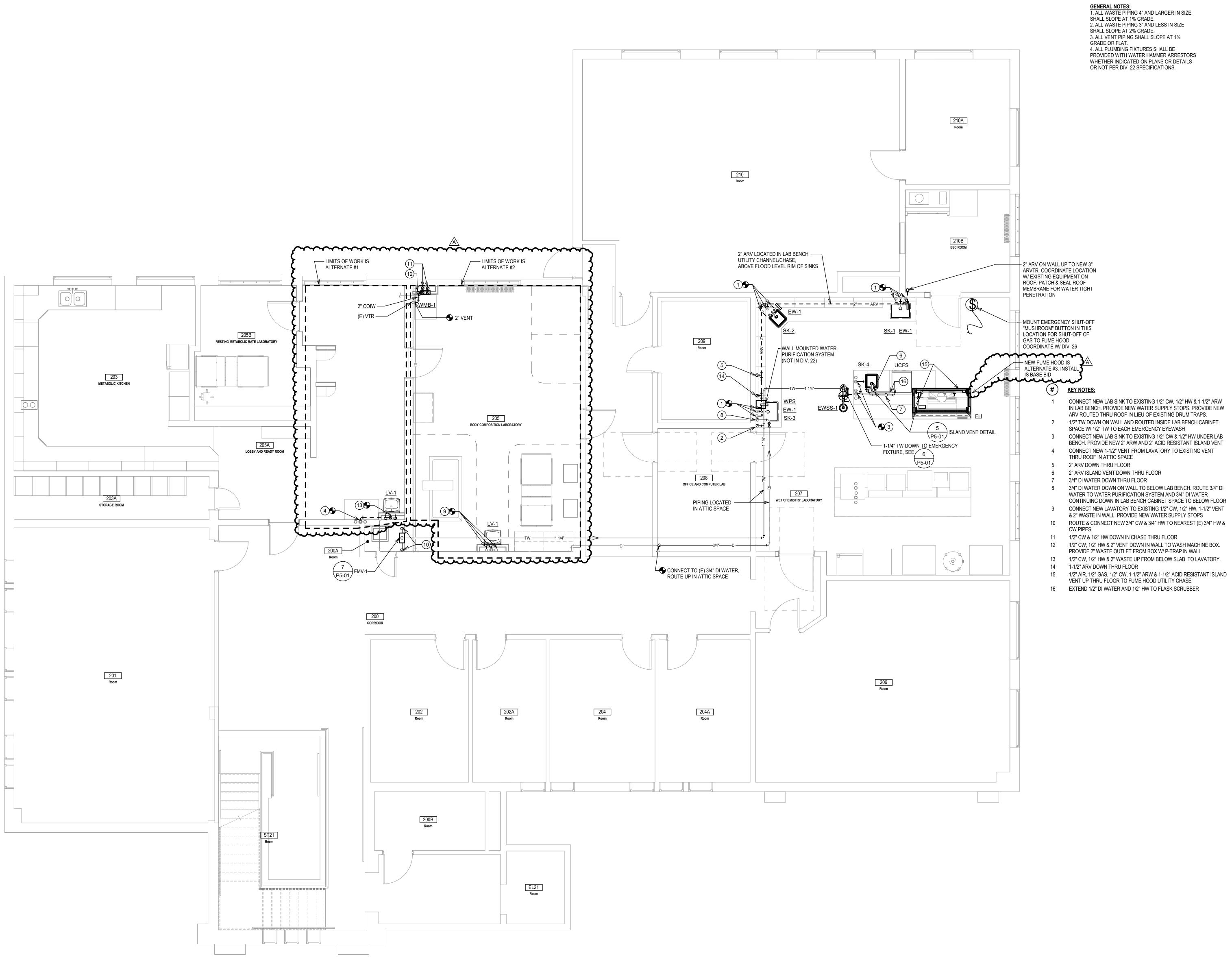
LEVEL 2 - DEMOLITION PLAN - PLUMBING 1/4" = 1'-0"



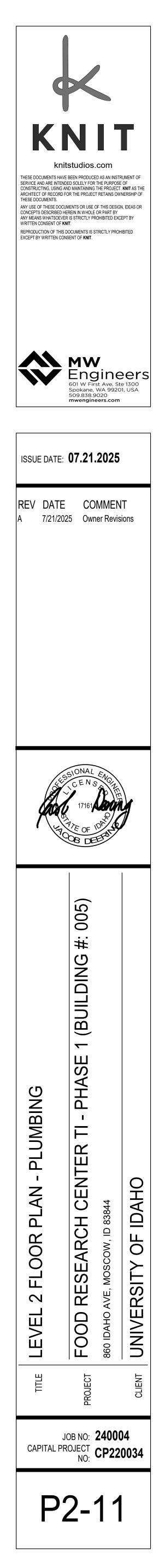


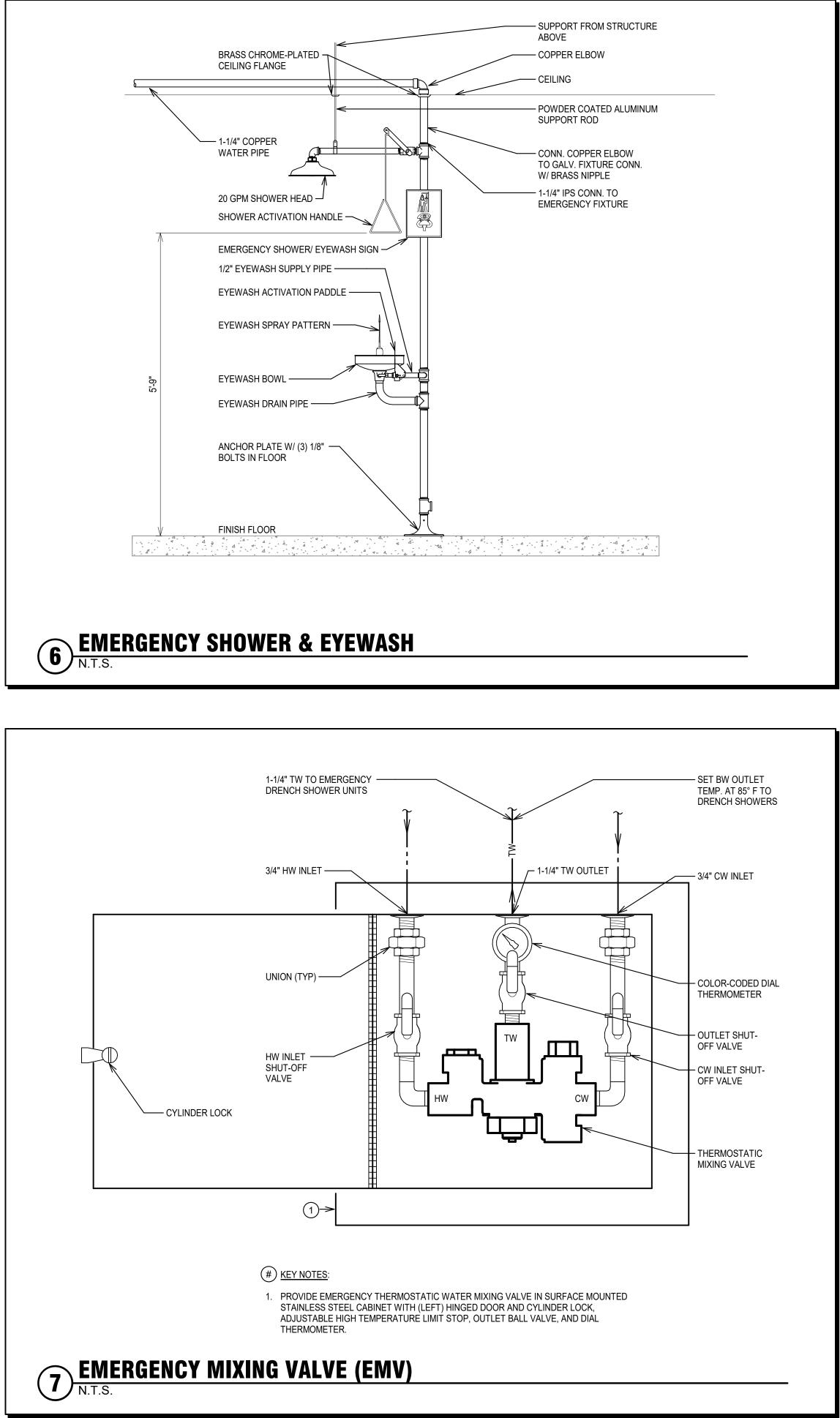
GENERAL NOTES: 1. ALL WASTE PIPING 4" AND LARGER IN SIZE SHALL SLOPE AT 1% GRADE. 2. ALL WASTE PIPING 3" AND LESS IN SIZE SHALL SLOPE AT 2% GRADE. 3. ALL VENT PIPING SHALL SLOPE AT 1% GRADE OR FLAT. 4. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER HAMMER ARRESTORS WHETHER INDICATED ON PLANS OR DETAILS OR NOT PER DIV. 22 SPECIFICATIONS.

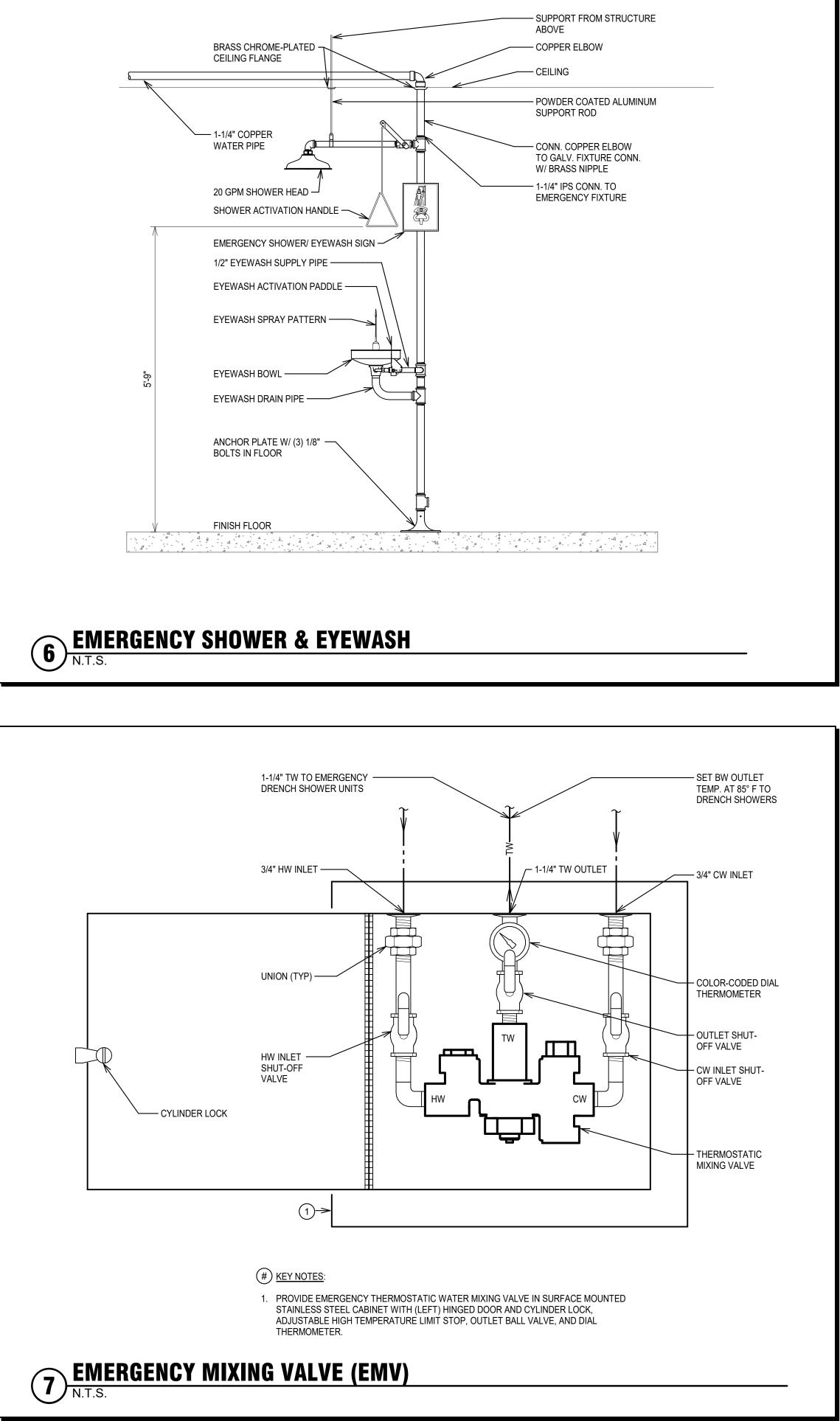


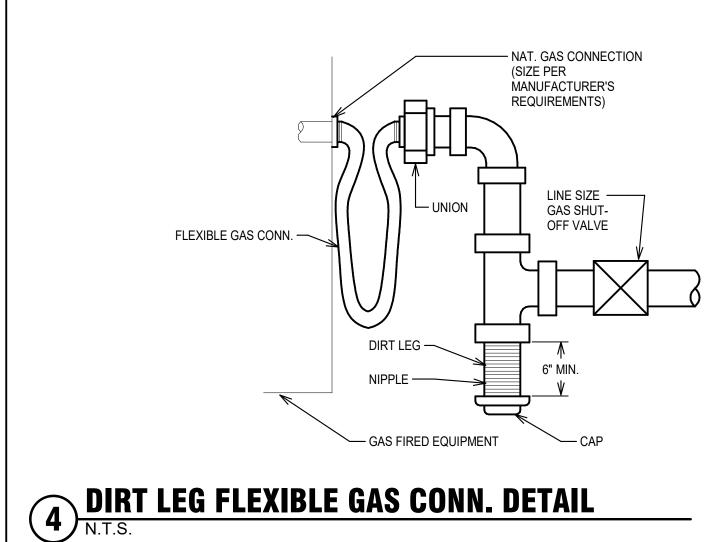


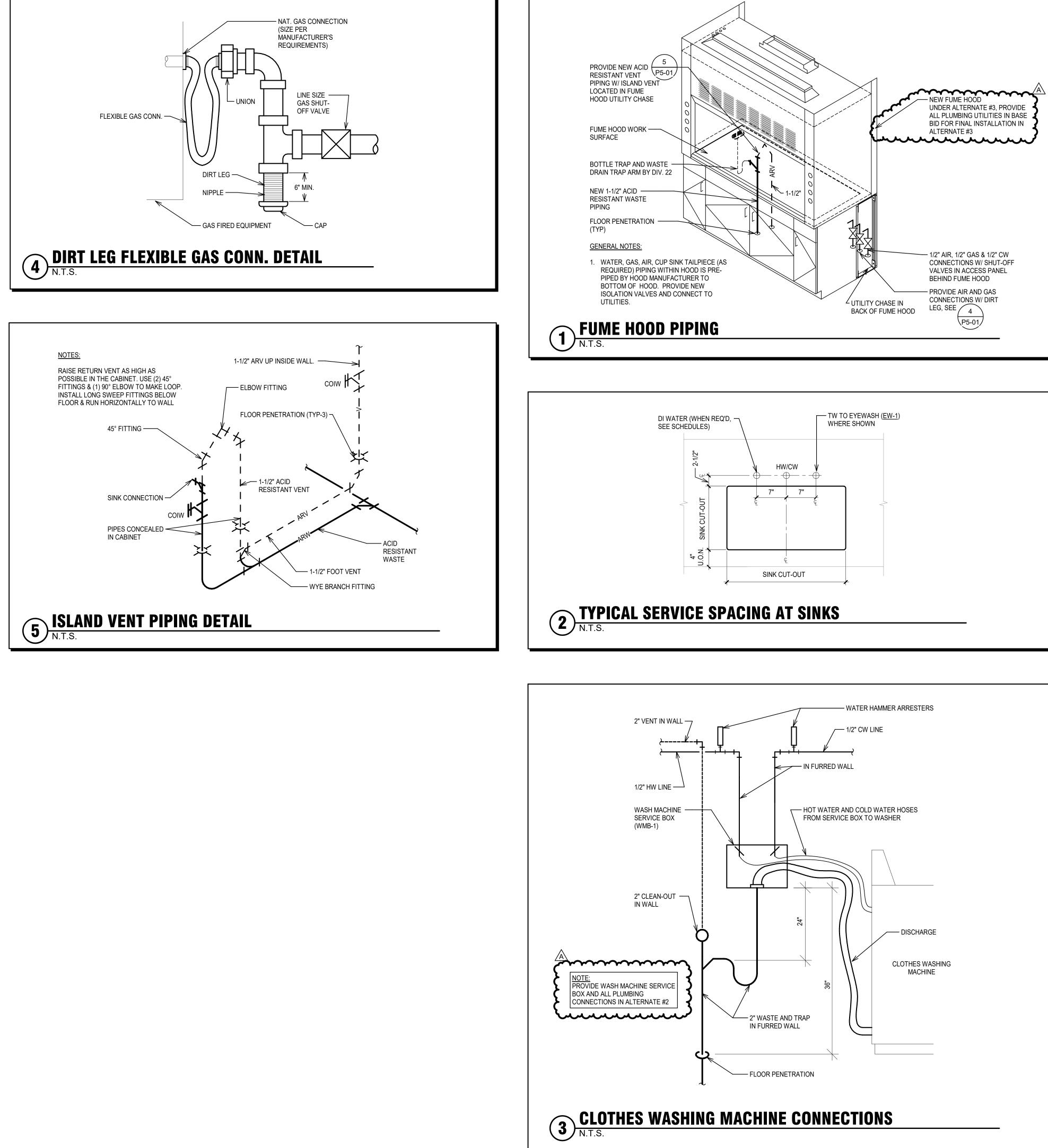
LEVEL 2 - PLUMBING 1/4" = 1'-0"

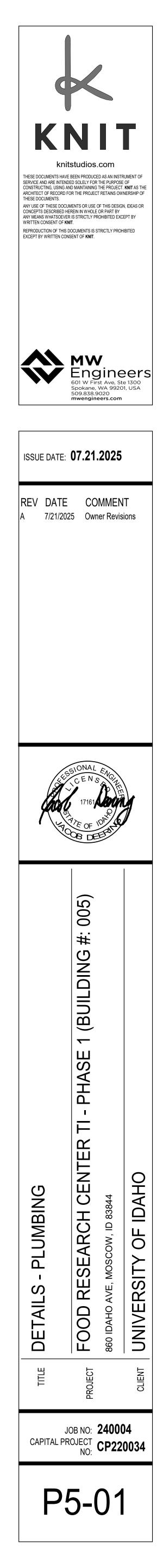












									PLUME	SING FIXTURE S	CHED	ULE											
	SIZES ON SITE AND COORDIN, DE NEW BRASSCRAFT STOPS &			RTOP & CASEWOR	K, SEE DETAIL 2 ON P5-01			TH CHICAGO FAUCETS 131-ABNF THERMOSTATIC UCET: WATERSAVER L694-LH. "LAV GUARD 2 E-Z			AP KIT.												
<u>TAG</u>	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	FIXTURE TYPE	MATERIAL	SIZE	MFR & MODEL # OF FAUCET & VALVE	DRAIN TYPE	TRAP	CARRIER	ACCESSORIES	WASTE	VENT	HW	CW	ARW	ARV	DI WATER	TW	ELECTRICAL REMARKS	SUPPLIES	NOTES
<u>EW-1</u>	EMERGENCY EYEWASH	GUARDIAN	G5022BP-FSH	DECK	DRENCH HOSE	BRASS & NYLON	10-1/8" TALL	INTEGRAL	-	-	-	8 FT. FLEXIBLE ST. STL. HOSE	-	-	-	-	-	-	-	1/2"	-	BRASSCRAFT KTSCR19X-C	5 GPM, ROUTE TW FROM MIXING VALVE MV-1
EWSS-1	EMERGENCY EYEWASH & SAFETY SHOWER	ULINE	H-6697	FREE STANDING	SHOWER/EYE WASH COMBO	POWDER COATED STEEL & PLASTIC	94-3/4" TALL	INTEGRAL	-	1-1/2" x 17 GA.	-	-	-	-	-	-	-	-	-	1-1/4"	-	-	25 GPM, ROUTE TW FROM MIXING VALVE MV-1
<u>LV-1</u>	ADA LAVATORY	KOHLER	"GREENWICH" K-2031	WALL	SELF-DRAINING DECK	VITREOUS CHINA	20-3/4"x18-1/4"x12-7/8"	CHICAGO FAUCETS 116.858.AB.1	ELKAY LK174	1-1/2" x 17 GA.	JAY R. SMITH 0710	NOTE 3	2"	1-1/2"	1/2"	1/2"	-	-	-	1/2"	PROVIDE WITH BATTERIES	BRASSCRAFT KTSCR19X-C	INSTALL PER ADA REQUIREMENTS UNDER ALTERNATE #1 & 2
<u>SK-1</u>	LAB SINK	DURCON	U52	IN EXISTING COUNTERTOP	, UNDERMOUNT	EPOXY	232/3"x17-2/3"x10-3/4"	WATERSAVER L414	DURCON STRAINER	BOTTLE TRAP SPEARS CPVC DILUTION TANK	-	-	-	-	1/2"	1/2"	1-1/2"	1-1/2"	-	-	-	NOTE 2	NOTE 1
<u>SK-2</u>	LAB SINK	DURCON	U20	IN EXISTING COUNTERTOP	, UNDERMOUNT	EPOXY	16"x16"x7-1/2"	WATERSAVER L414	DURCON STRAINER	BOTTLE TRAP SPEARS CPVC DILUTION TANK	-	-	-	-	1/2"	1/2"	1-1/2"	1-1/2"	-	-	-	NOTE 2	NOTE 1
<u>SK-3</u>	LAB SINK	DURCON	U52	IN EXISTING COUNTERTOP	, UNDERMOUNT	EPOXY	232/3"x17-2/3"x10-3/4"	WATERSAVER L414	DURCON STRAINER	BOTTLE TRAP SPEARS CPVC DILUTION TANK	-	DI WATER FAUCET: WATERSAVER L691-LH	-	-	1/2"	1/2"	1-1/2"	1-1/2"	1/2"	-	-	NOTE 2	NOTE 1, CONNECT DI WATER FAUCET TO ADJACENT WATER PURIFICATION SYSTEM
<u>SK-4</u>	ADA LAB SINK	DURCON	U20	COUNTERTOP	UNDERMOUNT	EPOXY	16"x16"x7-1/2"	WATERSAVER L414-BH	DURCON STRAINER	BOTTLE TRAP SPEARS CPVC DILUTION TANK	-	NOTE 4	-	-	1/2"	1/2"	1-1/2"	1-1/2"	1/2"	-	-	NOTE 2	NOTE 1, INSTALL PER ADA REQUIREMENTS
<u>WMB-1</u>	WASH MACHINE SERVICE BOX	GUY GRAY	MWB13	WALL	RECESSED IN WALL	POWDER COATED STEEL	10-7/8"x8-3/8"	QUARTER TURN VALVES	OPEN HUB	2"x17 GA STANDPIPE	-	-	2"	2"	1/2"	1/2"	-	-	-	-	-	-	SEE DETAIL 3, SHEET P5-01 UNDER ALTERNATE #2

			S
SYMBOL	MANUFACTURER	CATALOG NO.	SIZE
GSV-1	ASCO	SERIES 8040	1/2"
NOTES:			

1 VALVE SHALL BE LINE SIZE

3 PROVIDE W/ AMERICAN G

2 VALVE IS OPEN WHEN ENERGIZED; CLOSED WHEN DE-ENERGIZED

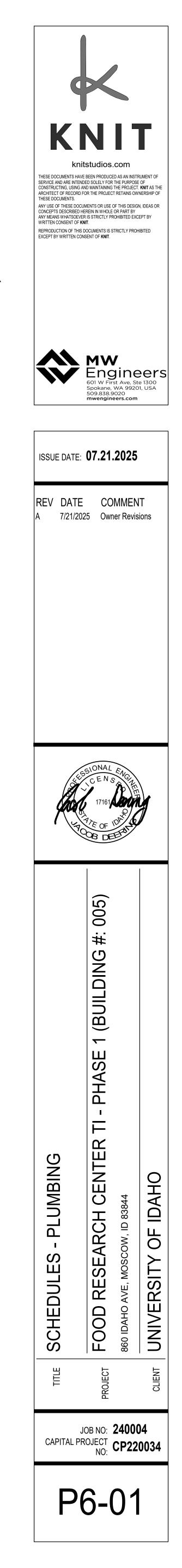
SOLENOID VALVE SCHEDULE										
	OPERATION	SERVICE	ELECTRICAL	NOTES						
	NORMALLY CLOSED	NAT-GAS (SERVES LAB GAS OUTLETS AS INDICATED ON PLANS)	120V / 60Hz / 15W / 1 AMP	123						
GAS	GAS SAFETY MODEL "AGSEGOTW" EMERGENCY GAS SHUT OFF PUSH BUTTON WITH TWIST-RESET									

WATER HAMMER ARRESTER SIZING CHART									
SYMBOL	FIXTURE UNIT RATING	JAY R. SMITH FIG. NO.	CONNECTION TO SUPPLY PIPE						
WHA-1	1-11	5005	3/4"						
WHA-2	12-32	5010	1"						
WHA-3	33-60	5020	1"						
NOTE: WATER HAMMER ARRESTERS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND IN ACCORDANCE WITH THIS SCHEDULE. INSTALL WATER HAMMER ARRESTERS AT ALL QUICK CLOSING VALVES, SOLENOID VALVES, EACH PLUMBING FIXTURE AND AT EACH BATTERY OF FIXTURES IN DOMESTIC HOT AND COLD WATER SYSTEMS.									

	LAB EQUIPMENT CONNECTION SCHEDULE											
NOTES:	ENT NOT IN DIV. 22											
TAG	DESCRIPTION	MOUNTING	TRAP	ARW	ARV	HW	CW	GAS	AIR	IW	DI WATER	REMARKS
FH	FUME HOOD	FREE STANDING	BOTTLE TRAP SPEARS CPVC DILUTION TANK	1-1/2"	1-1/2"	-	1/2"	1/2"	1/2"	-	-	SEE DETAIL 1 ON SHEET P5-01
UCFS	UNDERCOUNTER FLASK SCRUBBER	FLOOR	-	-	-	1/2"	-	-	-	3/4"	1/2"	ROUTE IW TO ADJACENT SINK W/ DISHWASHE AIRGAP. PROVIDE SUPPLY HOSE AND STOPS
WPS	WATER PURIFICATION SYSTEM	WALL	-	-	-	-	-	-	-	-	3/4"	-

				EM	ERGI	ENCY N	MIXIN	G VALVI	E SCHEDULE
<u>MV-#</u>	MFR	MODEL	CW INLET	HW INLET	BW OUTLET	MOUNTING TYPE	MOUNTING HEIGHT	OUTLET TEMPERATURE	NOTES
<u>EMV-1</u>	GUARDIAN	G6042	3/4"	3/4"	1 1/4"	WALL	6' - 0"	85 °F	EMERGENCY MIXING VALVE FOR EMERGENCY SHOWERS, SEE DETAIL 7, SHEET P5-01

			AIR	PRESSU	JRE REGU	LATORS	SCHED	ULE
TAG	MANUFACTURER	MODEL #	UNIT SIZE (INCHES)	INLET PRESSURE (PSIG)	OUTLET PRESSURE SETTING (PSIG)	REGULATOR CAPACITY (SCFM)	LOAD (SCFM)	NOTES
<u>AR-1</u>	WILKERSON	RB3	1/2"	VERIFY EXISTING	15	14 CFM	1.0	PROVIDE WITH GAUGE



ELECTRICAL SPECIFICATIONS

<u>GENERAL</u>

ELECTRICAL WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THESE DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS. CODES, PERMITS AND FEES

THE INSTALLATION OF THIS WORK SHALL COMPLY IN EVERY WAY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS. ORDINANCES, AND RULES OF THE STATE OF IDAHO, OSHA, THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE NATIONAL ELECTRICAL CODE. IF ANY CONFLICT OCCURS BETWEEN THESE RULES AND THIS SPECIFICATION, THE RULES SHALL GOVERN. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING WITH GOVERNING CODES. THIS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PLANS OR SPECIFICATIONS WHICH MAY BE IN EXCESS OF REQUIREMENTS OF HEREIN BEFORE MENTIONED RULES AND NOT CONTRARY TO SAME. OBTAIN AND PAY FOR ALL REQUIRED STATE AND LOCAL INSTALLATION INSPECTIONS. DELIVER ORIGINALS OF THESE CERTIFICATES IN THE OPERATING AND MAINTENANCE INSTRUCTIONS. ALL MATERIALS SHALL BE UL LISTED AND LABELED.

RACEWAYS AND FITTINGS

RIGID METAL CONDUIT (RMC) AND INTERMEDIATE METALLIC CONDUIT (IMC) HEAVY WALL, GALVANIZED STEEL, SCHEDULE 40, THREADED. FITTINGS SHALL BE THREADED GALVANIZED OR CADMIUM PLATED STEEL FITTINGS. ELECTRIC METALLIC TUBING (EMT) SHALL BE GALVANIZED TUBING. FITTINGS: STEEL, RAIN TIGHT COMPRESSION TYPE WITH NYLON INSULATED THROATS ON CONNECTORS OUTDOOR OR 2" AND GREATER. STEEL SET-SCREW TYPE WITH NYLON INSULATED THROATS ON CONNECTORS UNDER 2" AND INDOOR. FLEXIBLE METAL CONDUIT SHALL BE FLEXIBLE, INTERLOCKED, GALVANIZED STEEL CONSTRUCTION, SPIRAL STRIP. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1. ALL STEEL, GALVANIZED, COMPRESSION TYPE. SPECIFICALLY DESIGNED FOR THE PURPOSE. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE FLEXIBLE, INTERLOCKED, GALVANIZED STEEL, SPIRAL STRIP WITH AN OUTER LIQUIDTIGHT, NON-METALLIC, SUNLIGHT-RESISTANT JACKET. FITTINGS. PLASTIC CONDUIT SHALL BE SCHEDULE 40 PVC MINIMUM, LISTED, SUNLIGHT RESISTANT, RATED FOR 90 DEGREES C CONDUCTORS.

ELECTRICAL BOXES

SHEET METAL OUTLET BOXES: GALVANIZED STEEL, WITH 3/8" MALE FIXTURE STUDS WHERE REQUIRED. LUMINAIRE AND EQUIPMENT SUPPORTING BOXES: RATED FOR WEIGHT FOR EQUIPMENT SUPPORTED.

PULL AND JUNCTION BOXES

OUTLET, PULL BOXES AND JUNCTION BOXES SHALL BE GALVANIZED STEEL MINIMUM 4 INCH SQUARE BY 2 1/8" INCHES DEEP FOR USE WITH 1 INCH CONDUIT AND SMALLER. ON CONDUIT SYSTEMS USING 1 1/4" OR LARGER, PULL AND JUNCTION BOXES SHALL BE SIZED PER NEC BUT NOT LESS THAN 4 11/16" SQUARE. OUTLET BOXES OUTDOORS SHALL BE CAST METAL WITH THREADED HUBS. PROVIDE DEVICE RINGS, SIZE AS REQUIRED. FOR TELECOMMUNICATION, SECURITY, AND OTHER LOW VOLTAGE CABLE INSTALLATIONS, THE BOXES SHALL BE A 4 11/16" SQUARE BOX WITH SINGLE GANG MUDDING AND BLANK COVERPLATE.

WIRE AND CABLE

SINGLE CONDUCTOR, TYPE THHN/THWN OR XHHW INSULATION, RATED 600 VOLTS, SPLIT BOLT CONNECTORS ARE NOT ACCEPTABLE. NO CONDUCTOR LESS THAN 10 AWG SHALL BE INSTALLED IN EXTERIOR UNDERGROUND CONDUIT. ALL CONDUCTORS #1 AND SMALLER SHALL BE COPPER.

METAL-CLAD CABLE

METAL-CLAD CABLE SHALL BE TYPE MC PRE-MANUFACTURED CABLE ASSEMBLIES CONSISTING OF COLOR-CODED PHASE, NEUTRAL AND GROUND CONDUCTORS BOUND TOGETHER WITH AN OUTER COVERING OF METAL CLADDING. METAL-CLAD CABLE INSTALLED IN PATIENT VICINITY SHALL BE HEALTHCARE GRADE WITH REDUNDANT EQUIPMENT GROUND CONDUCTOR.

DEVICES

HUBBELL. PASS AND SEYMOUR, BRYANT, LEVITON, OR APPROVED EQUAL. ALL WIRING DEVICES SHALL COMPLY WITH NEMA STANDARD WD-1, "HEAVY DUTY WIRING DEVICES" AND UL 20 STANDARDS. COLOR SHALL BE IVORY. A. 15A DUPLEX RECEPTACLE: HUBBELL 5252.

- B. 20A DUPLEX RECEPTACLE: HUBBELL 5352. C. GFCI RECEPTACLE: HUBBELL GF-5252.
- D. SINGLE POLE SWITCH: HUBBELL 1221.

INSTALL WALL SWITCHES 48" TO CENTER ABOVE FLOOR. INSTALL CONVENIENCE RECEPTACLES 48" ABOVE FLOOR TO CENTER, 6" TO CENTER. INSTALL WITH GROUNDING PIN UP.

WALL PLATES

INDOOR DEVICES SHALL HAVE RAISED INDUSTRIAL COVERPLATES. OUTDOOR DEVICES SHALL HAVE GASKETED CAST METAL HINGED COVER.

SUPPORTING STRUCTURES

STEEL CHANNEL SUPPORTS: GALVANIZED OR PAINTED STEEL. DESIGN SUPPORTS TO CARRY WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDE WIRING.

<u>GROUNDING</u>

PROVIDE AN INSULATED THROAT BUSHING ON THE CONDUIT PASSING THRU EACH METAL ENCLOSURE. PROVIDE A BONDING JUMPER CONNECTING THE BUSHING TO THE GROUND BUS AND METAL FRAME OF THE EQUIPMENT. PROVIDE COPPER EQUIPMENT GROUNDING TERMINAL BAR IN ALL NEW PANELBOARDS. WHERE GROUNDING CONDUCTORS TERMINATE. BOND TO THE GROUNDING BUSHING ON THE CONDUIT FEEDING THE PANELBOARD.

ELECTRICAL DISTRIBUTION EQUIPMENT

PANELBOARDS, ENCLOSED SWITCHES AND MOTOR CONTROLLERS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE UL STANDARD. MANUFACTURERS: SQUARE D

DEMOLITION:

INACTIVE AND ABANDONED WIRE AND CABLE, INCLUDING DISCONNECTED CIRCUITS FROM WHICH ALL TERMINAL DEVICES HAVE BEEN ELIMINATED, SHALL BE REMOVED BACK TO THE SOURCE OF SUPPLY. ABANDONED RACEWAY SHALL BE REMOVED

COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. MATERIALS REMOVED DURING THE DEMOLITION PHASE OF THE WORK SHALL BE STORED OR PROPERLY DISPOSED OF AS DIRECTED BY THE OWNER.

PERFORM CUTTING, DRILLING AND PATCHING REQUIRED TO PERFORM THE WORK. PATCHING MATERIALS SHALL MATCH THE EXISTING MATERIALS.

LIGHTING

AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE. SECURELY MOUNT ALL FIXTURES, PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTING BRACKETS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. DRIVERS SHALL BE AS RECOMMENDED BY THE FIXTURE MANUFACTURER. DRIVERS FOR LED FIXTURES SHALL BE LESS THAN 10% THD, UNLESS OTHERWISE NOTED. LED DRIVER SHALL BE DIMMABLE FROM 100%TO 1% WITH 0-10 VDC CONTROL WITHOUT FLICKER.

LIGHTING CONTROLS

LIGHTING CONTROLS SYSTEM SHALL CONSIST OF LOCAL CONTROL STATIONS, OCCUPANCY SENSOR, DAYLIGHT SENSORS, AND INTERFACING DEVICES FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM CONFORMING TO THE REQUIREMENTS OF THE APPLICABLE ENERGY CODE. LIGHTING CONTROL MANUFACTURER SHALL BE NLIGHT. OCCUPANCY SENSOR: NCM SERIES. PHOTOCELL SENSOR: NCMB SERIES

FIRE ALARM

FIRE ALARM PRODUCTS SHALL MATCH EXISTING BUILDING DEVICES AND SHALL BE AN EXTENSION OF THE EXISTING BUILDING SYSTEM. EXISTING BUILDING SYSTEM IS SILENT KNIGHT.

TELECOM

COMMUNICATION DEVICES SHALL BE INSTALLED ACCORDING TO THE LATEST VERSION OF THE UI OIT STANDARDS. COMMUNICATION CABLING TO BE INSTALLED ACCORDING TO UI STRUCTURED CABLING STANDARD.

SECURITY SYMBOLS

—	CARD READER
Ξ	DOOR INTERLOCK
\diamond	DOOR POSITION INDICATION SWITCH (INTERRUPTIBLE)
♦	DOOR POSITION INDICATION SWITCH (UNINTERRUPTIBLE)
ġ	DURESS ALARM (WITH LIGHT)
Ĩ	DURESS ALARM (WITHOUT LIGHT)
•	ELECTRIC LOCK
	ELECTRIC LOCK (DEADBOLT)
K	KEYED SWITCH
M	MOTION DETECTOR
R	PUSH BUTTON REX

FIRE ALARM SYMBOLS

DOOR HOLD OPEN

DUCT SMOKE DETECTOR

FIRE ALARM CONTROL PANEL

FIRE ALARM SLAVE PANEL

FIRE BELL

FLOW SWITCH

FIRE ALARM ANNUNCIATOR PANEL

HEAT DETECTOR (CEILING MOUNTED)

HEAT DETECTOR (WALL MOUNTED)

HORN (WALL MOUNTED)

MANUAL PULL STATION

MICROPHONE

HORN (CEILING MOUNTED)

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MONITOR MODULE

OUTPUT RELAY

OSID BEAM. SEE FLOOR PLANS FOR MOUNTING

HEIGHT. OSID-R INDICATES REFLECTOR

SMOKE DETECTOR (CEILING MOUNTED)

(2) W SMOKE DETECTOR (WALL MOUNTED)

SPEAKER (WALL MOUNTED)

SPEAKER (CEILING MOUNTED)

STROBE (WALL MOUNTED)

STROBE (CEILING MOUNTED)

TAMPER DETECTOR (WITH VALVE)

TAMPER DETECTOR (WITHOUT VALVE)

SPEAKER STROBE (WALL MOUNTED)

SPEAKER STROBE (CEILING MOUNTED)

SECURITY CAMERA (STANDARD) SECURITY CONTROL PANEL SENSOR REX KEYPAD VSS MONITOR WINDOW BREAKAGE DETECTOR

(A)- _ _ _ _ ----69 GFI 3P-1600 AF / 1200 AT 60 에 (E) \square

SCHEMATIC SYMBOLS

AUTOMATIC TRANSFER SWITCH

AMP METER

AUTOMATIC TRANSFER SWITCH (4-POLE BYPASS ISOLATION) CIRCUIT BREAKER CIRCUIT BREAKER (GFI) INDICATES A BREAKER WITH A 1600 AMP FRAME AND A 1200 AMP TRIP SETTING CONTACT (N.C.) CONTACT (N.O.)

CONTACT (REMOTE, N.O.) DISCONNECT SWITCH

CONTACT (REMOTE, N.C.)

- ELECTRONIC INTERLOCK
- ENCLOSED CIRCUIT BREAKER FEEDER IDENTIFICATION

<u>POWER SYMBOLS</u>

<u> </u>
CONDUIT DROP
CONDUIT RISE
DISCONNECT SWITCH
DISTRIBUTION PANEL
ELECTRICAL PANEL
JUNCTION BOX
METER
MOTOR
MOTOR STARTER
MOTOR STARTER (MANUAL)
PUSH TYPE SWITCH
RECEPTACLE, 20 AMP DUPLEX
RECEPTACLE, CEILING MOUNTED
RECEPTACLE, CEILING 20 AMP DUPLEX
RECEPTACLE, CEILING DUPLEX STANDBY POWE
RECEPTACLE, CEILING DUPLEX UPS BACKED

EQUIPMENT TAG. REFER TO EQUIPMENT

SHEDULE SHEET FOR DETAILS.

ADDENDUM 2:

ю

FACP

FAA

FASP

2.2 Question: Clarify spec for electrical panel in the bench. Demo/construction Response: Demolish existing load center back to source. Demolish associated conduits and breakers.

2.5 Question: There was a request for the specification (make/model) for the raceway above the cabinets in room 207. Will it be the 4000 series, like they have put in on other projects at the university. Response: Match University of Idaho Standards. 4000 series is acceptable.

2.9 Question: Are the panels in the corridor included in base bid?

Response: Yes, panels L2B and L2C are to be included in the base bid. 2.14 Question: Does the existing building Fire Alarm FACP have the capacity to expand to accept the Initiation and Notification devices being added during this renovation? Does the Existing building Fire Alarm FACP have sufficient Standby Battery power to accept the additional devices being added?

Are the existing Fire Alarm plans available and could we get a copy. **Response:** The existing panel has capacity for the proposed scope. Existing plans, if available, will be provided to the selected contractor.

ADDENDUM 3:

3.1 Question: Reference ED2-11 room 207 plans show to demo receptacles on north and west walls. Sheet E2-11 shows installing surface mount raceway with devices. At the walk through it was discussed that they thought the existing devices were just needed to be replaced – please clarify. Response: Remove existing devices and replace with new devices above counter. No need for new surface mount raceway if the counter is not being demolished.

3.2 Question: Who is responsible for data cabling? U of I, System Tech or others?

Response: The UI OIT Department.

E4-01 for more information.

3.3 Question: Is there a telecom closet on the 2nd floor for cabling to terminate in or do all cable run to the basement? **Response:** As far as we are aware, there is not a second-floor telecom room. All cables run down to the first-floor telecom rack from the second-floor janitors' closet.

3.4 Question: Reference T8-01 shows raceway from basement to 2nd floor. Does this raceway go straight up, or does it offset somewhere? Need floor details as to where conduit is to be placed. **Response:** Conduit goes straight up from the telecom rack on the first floor. See sheet

3.5 Question: U of I standards are for stub up for data to accessible ceiling. All ceilings in these locations have a hard ceiling and the only access is a small access hatch above and a lab below. If we go up, where do we terminate the conduits? If we go down, where do we terminate

Response: There is a 3-foot attic space above the hard lid to terminate the conduits. **3.6 Question:** Sheet E0-01 says metal clad conduit is acceptable. Typical U of I specs states

for whips only. Response: That is correct. Per UI Standards MC cable is only allowed for lighting whips.

3.7 Question: When at the walk through, we were shown (1) access hatch. Is that the only one? It is small. Do we know the height of space above ceiling? Response: As far as we are aware, that is the only access hatch. The space above the

hard lid is an attic approximately 3 feet of clear space. **3.8 Question:** Are all additional wiring devices to be installed in wire mold or is EMT acceptable

Response: EMT is acceptable for additional wiring devices. Per UI standards, all conduit to be 3/4" or greater.

3.9 Question: Reference EL5-02 plans show a complete lighting system. Is this what is to be installed? Is there an existing system in the building that we tie into? **Response:** The detail on sheet EL5-02 is a typical detail. The new lights are to be integrated into the existing system

MANNANANANANANANANANANANANANA

LIGHTING SYMBOLS 1'x4' LIGHT

	2'x2' LIGHT
	2'x4' LIGHT
0	DOWNLIGHT
\otimes	EXIT LIGHT
	PENDANT LIGHT
⊶□	POLE MOUNTED LIGHT
⊢⊶	STRIP LIGHT
<u>aaa</u>	TRACK LIGHT
\mathbf{t}	WALL MOUNTED EMERGENCY LIGHT
\Box	WALL SCONCE
0	

LIGHT FIXTURE WITH LOWER CASE LETTER INDICATING ZONING FOR LIGHTING CONTROLS

EQ-#

 (\mathbf{J})

 \bigtriangledown

				SIMBOLZ & ARRKEAIUI	IUN	5
			-	<u>GENERAL SYMBOLS</u>		
	واہ	FUSE	(#)	NA		
~ ^	∽6 و	FUSIBLE SWITCH	EQ-#	EQUIPMENT IDENTIFIER	\mathbf{b}	CONNECTION TO EXISTING (#" INDICATES EXISTING SIZE)
	\heartsuit	GENERATOR		– DETAIL NUMBER DETAIL REFERENCE	1	REVISION NUMBER
		GROUND		- SHEET NUMBER	SIM	- SECTION NUMBER
		GROUNDED WYE	1	- DETAIL NUMBER DETAIL REFERENCE		SECTION REFERENCE
		INDUCTOR	Ref Sht Ref Sht	- MATCHED SHEET NUMBER		- SHEET NUMBER
	3 W	LINE TAP	·\	- CURRENT SHEET NUMBER		NORTH ARROW
	M	METER		MATCH LINE REFERENCE		
	\sim	MOTOR	Sht # <	— MATCHED SHEET NUMBER	£	CENTER LINE
PNL		PANELBOARD (# INDICATES NAME)				_
] 		NOTE: SYMBOLS AN	D ABBREVIATIONS ON THE DRAWINGS SHALL BE INTERPRE		CORDANCE
	PNL	PANEL OR CABINET	WITH THE LE	GENDS WHEREVER APPLICABLE. NOT ALL SYMBOLS AND AE E NECESSARILY USED FOR THE PROJECT. ALL SIZES ARE IN	BREVIATI	ONS IN THE
	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	SEPARABLE CONNECTIONS				
	0 0	SPACE IN PANELBOARD		LINEWEIGHT LEGEND		
	00	SWITCH				
	SPD	SURGE PROTECTION DEVICE				
		TRANSFORMER		DEMOLITION		
	∭ ∭	VOLT METER		FUTURE WORK		
	\bigcirc					
				ABBREVIATIONS		
	φ	RECEPTACLE, DUPLEX	Ø ABV	DIAMETER ABOVE	LSI	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME, SHORT TIME AND INSTANTANEOUS TRIP
	Φ	RECEPTACLE, DUPLEX FLOOR MOUNTED	AFF	ABOVE FINISH FLOOR ABOVE FINISH GRADE	LSIA	CHARACTERISTICS INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG
	\P_{G}	RECEPTACLE, DUPLEX GFI	AL AR	ALUMINUM AS REQUIRED	LON	TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT ALARM TRIP CHARACTERISTICS
	\P	RECEPTACLE, DUPLEX ISOLATED GROUND	ATS BLDG	AUTOMATIC TRANSFER SWITCH BUILDING	LSIG	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND
	Ŷ	RECEPTACLE, DUPLEX SWITCHED	C C CCT	CONDUIT CIRCUIT		FAULT TRIP CHARACTERISTICS
	P	RECEPTACLE, DUPLEX STANDBY POWER	CKT	CIRCUIT	MAX MFR	MANUFACTURER
	Ψu	RECEPTACLE, DUPLEX UPS BACKED	CLG CO	CEILING CONDUIT ONLY WITH 1/4" POLYPROPYLENE PULL ROPE	MIN MMS	MINIMUM MANUAL MOTOR STARTER
	₽	RECEPTACLE, DUPLEX WITH USB	CP CT	CHROME PLATED CURRENT TRANSFORMER	MNT (N)	MOUNT(ED) NEW
	₽	RECEPTACLE, QUAD	CU DIA	COPPER DIAMETER	N NL	NEUTRAL NIGHT LIGHT
	Ð	RECEPTACLE, QUAD FLOOR MOUNTED	DISC DIST	DISCONNECT DISTRIBUTION	N.C. NIC	NORMALLY CLOSED NOT IN CONTRACT
		RECEPTACLE, FLOORBOX. 'X' INDICATES THE	DIV DWG	DIVISION DRAWING	N.O. NORM	NORMALLY OPEN NORMAL
	¶ _x y	QUANTITY OF DUPLEX OUTLETS TO BE INSTALLED. 'Y' INDICATES THE FLOORBOX	DX (E)	DUPLEX EXISTING TO REMAIN	UNO PNL	UNLESS NOTED OTHERWISE PANEL
		TYPE. REFER TO SHEET EXXX FOR DETAILS ON EACH TYPE.	EA EM	EACH EMERGENCY	QIG REQ'D	QUAD ISOLATED GROUND REQUIRED
	Φ	RECEPTACLE, SINGLE	FLR FT	FLOOR, OR FLOOR MOUNTED FEET	RM SIM	ROOM SIMILAR
WER	·	RECEPTACLE, SPECIAL	G GA	GROUND GAUGE	SMR SPST	SURFACE METAL RACEWAY SINGLE POLE/SINGLE THROW SWITCH
	•	RECEPTACLE, SPECIAL FLOOR MOUNTED	GFI GND	GROUND FAULT INTERRUPT GROUND	SS SW	STAINLESS STEEL SWITCH
)	•	TRANSFORMER	H HT	HIGH HEIGHT	T T TYP	TAMPER PROOF RECEPTACLE TYPICAL
	Т	CONCEALED CONDUIT: UNLESS OTHERWISE	IG IN	ISOLATED GROUND INCHES	W W/	WIDE WITH
	\frown	INDICATED, DENOTES 3/4"C-2#12+1#12G	L	LONG	W/IN	WITHIN
		SURFACE MOUNTED RACEWAY	LI	INDICATES A BREAKER WITH FULLY ADJUSTABLE LONG TIME AND INSTANTANEOUS TRIP CHARACTERISTICS	W/O WP X	WITHOUT WEATHERPROOF, RECEPTACLES TO BE GFI EXISTING DEVICE TO BE REPLACED WITH NEW DEVICE
					XFMR	AT SAME LOCATION TRANSFORMER
				ANNOTATION		
			+XX"	MOUNTING HEIGHT (AFF OR AFG) (n)x"C-a#b+c#d		
	\Diamond	CRITICAL POWER LIGHT		n = QUANTITY OF CONDUIT		
		EMERGENCY POWER LIGHT		x = SIZE OF CONDUIT a = QUANTITY OF CONDUCTORS		
		DAYLIGHT SENSOR		b = CONDUCTOR WIRE SIZE c = QUANTITY OF GROUND		
	\bigtriangledown	VACANCY SENSOR		d = GROUND WIRE SIZE		
	\bigcirc	OCCUPANCY SENSOR				
	P	PHOTOCELL SENSOR				
	PDZ	PRIMARY DAYLIGHT ZONE				
	SDZ	SECONDARY DAYLIGHT ZONE				
	\$	LIGHTING SWITCH (STANDARD)				

SYMBOLS & ABBREVIATIONS

LIGHTING SWITCH (STANDARD)

LOW VOLTAGE LIGHTING SWITCH DETAILS -

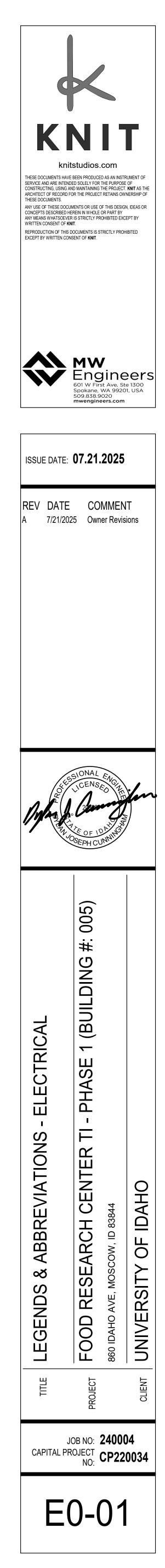
SHOWN ON LOW VOLTAGE LIGHTING DETAIL

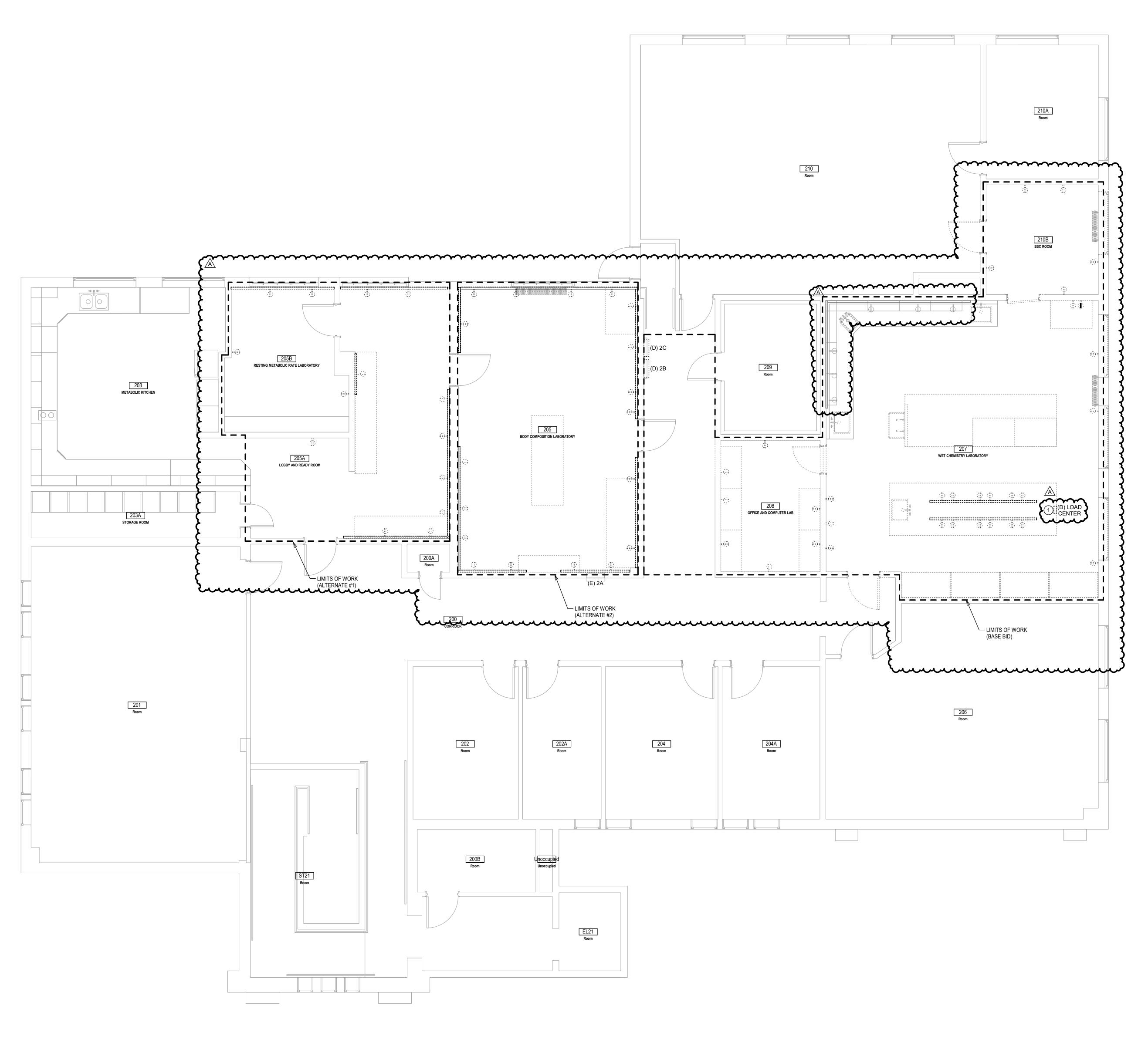
LIGHTING SWITCH (3-WAY)

LIGHTING SWITCH (4-WAY)

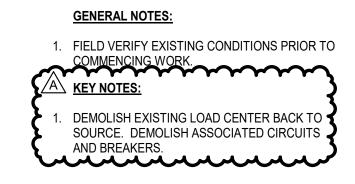
SHEET

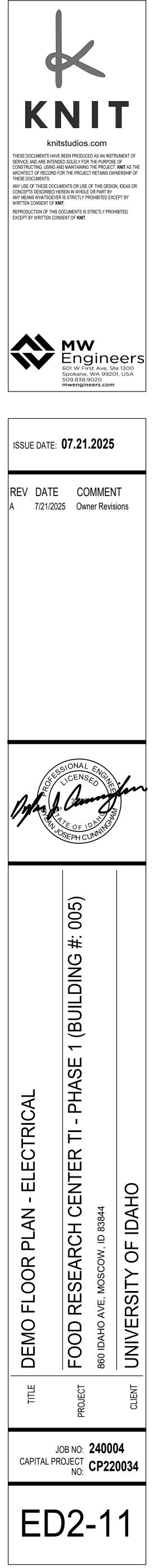
LCP LIGHTING CONTROL PANEL



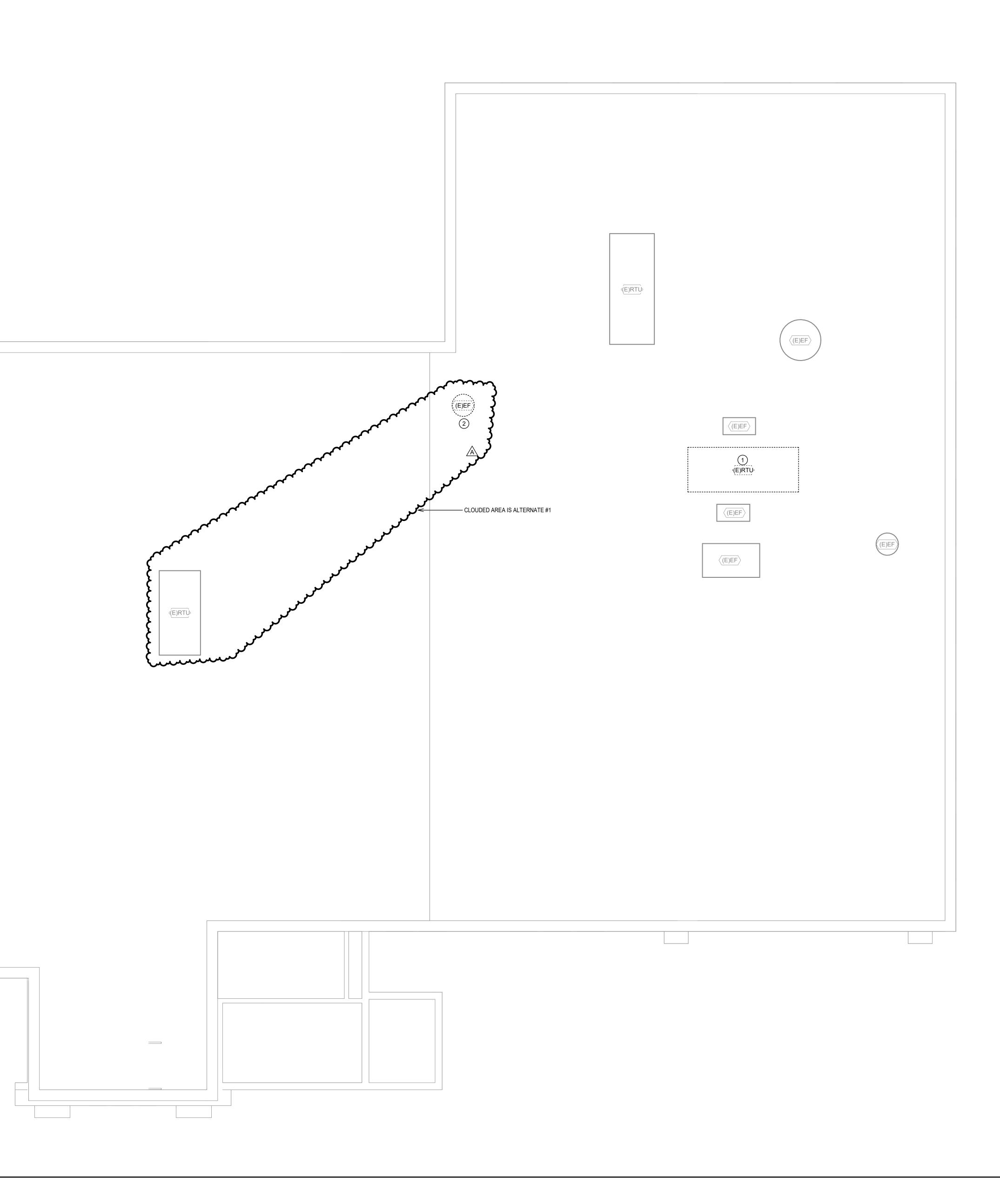


LEVEL 2 - DEMOLITION PLAN - ELECTRICAL 1/4" = 1'-0"



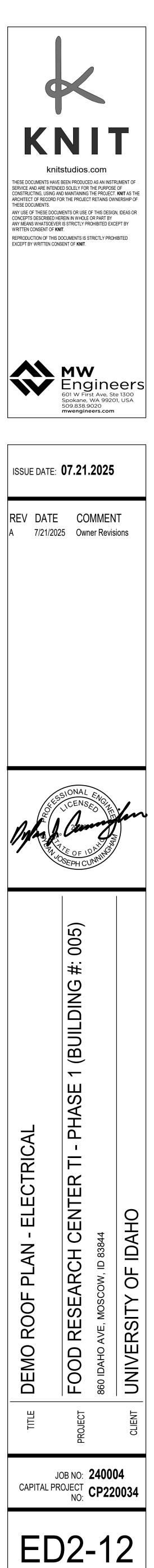


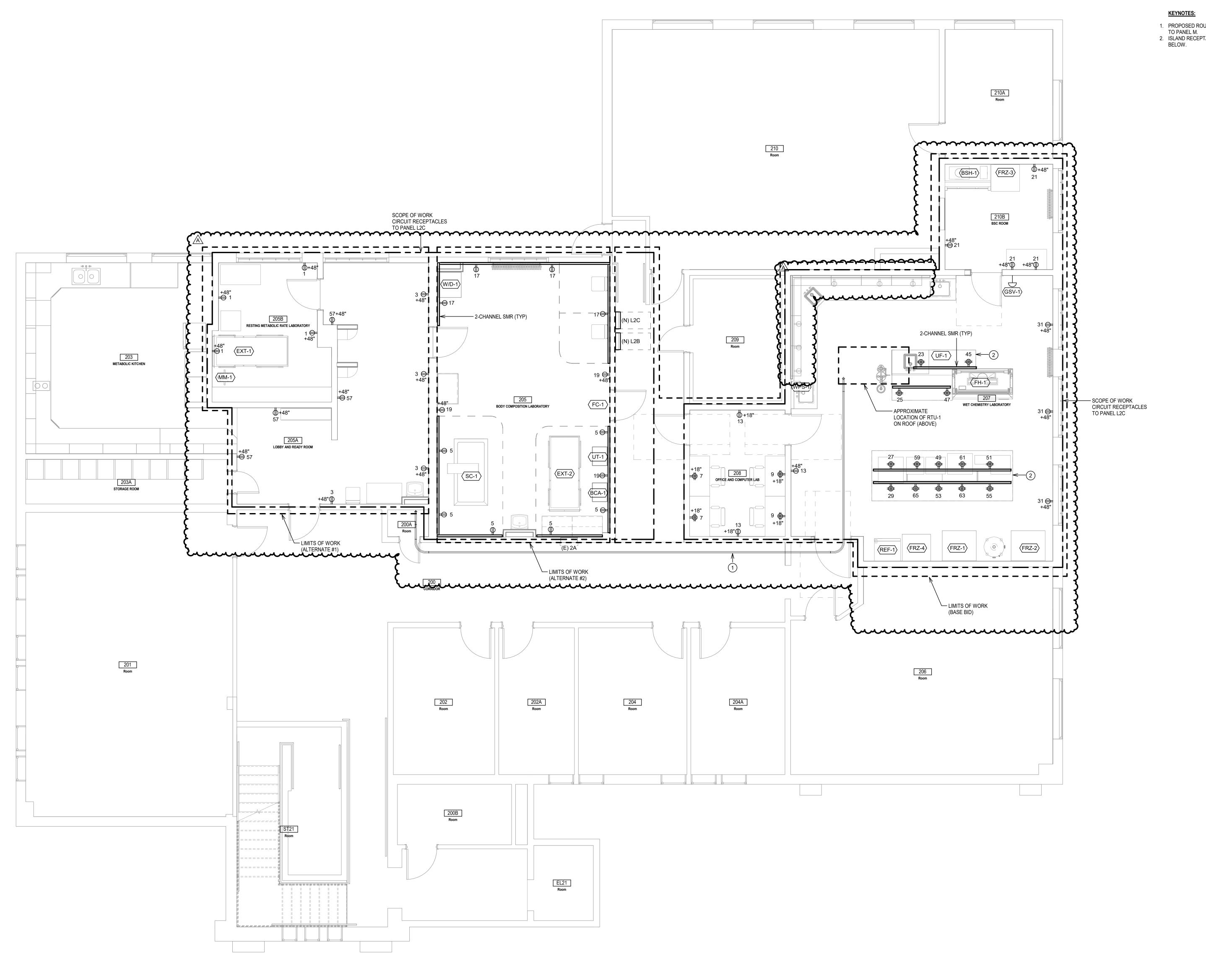




GENERAL NOTES: 1. MAKE SAFE ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT BEING DEMOLISHED. REMOVE EXISTING BRANCH CIRCUIT CONDUCTORS TO NEAREST JUNCTION BOX OR RETAINED STRUCTURE AND PROTECT FOR REUSE. INTERCEPT AND MODIFY EXISTING RACEWAY SYSTEM AS REQUIRED TO ACCOMMODATE DEMOLITION OF EXISTING MECHANICAL EQUIPMENT AND CONNECTION OF NEW MECHANICAL EQUIPMENT. EXTEND BRANCH CIRCUIT CONDUCTORS AND MAKE FINAL CONNECTIONS. COORDINATE WITH DIV. 23 PRIOR TO COMMENCING WORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS. 2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. KEYNOTES:

1. DEMOLISH EXISTING EQUIPMENT AND REPLACE WITH NEW AS INDICATED. 2. DEMOLISH EXISTING EQUIPMENT.



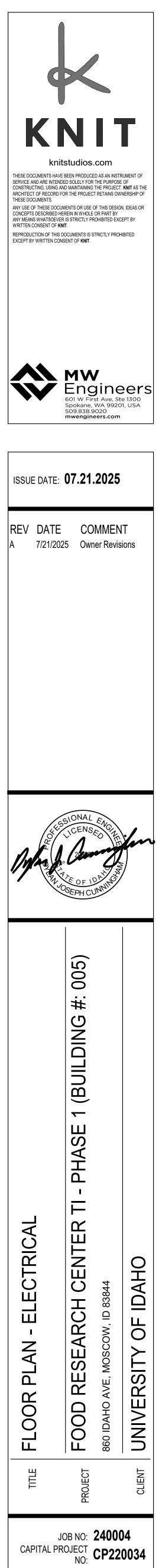


LEVEL 2 - ELECTRICAL 1/4" = 1'-0"

GENERAL NOTES:

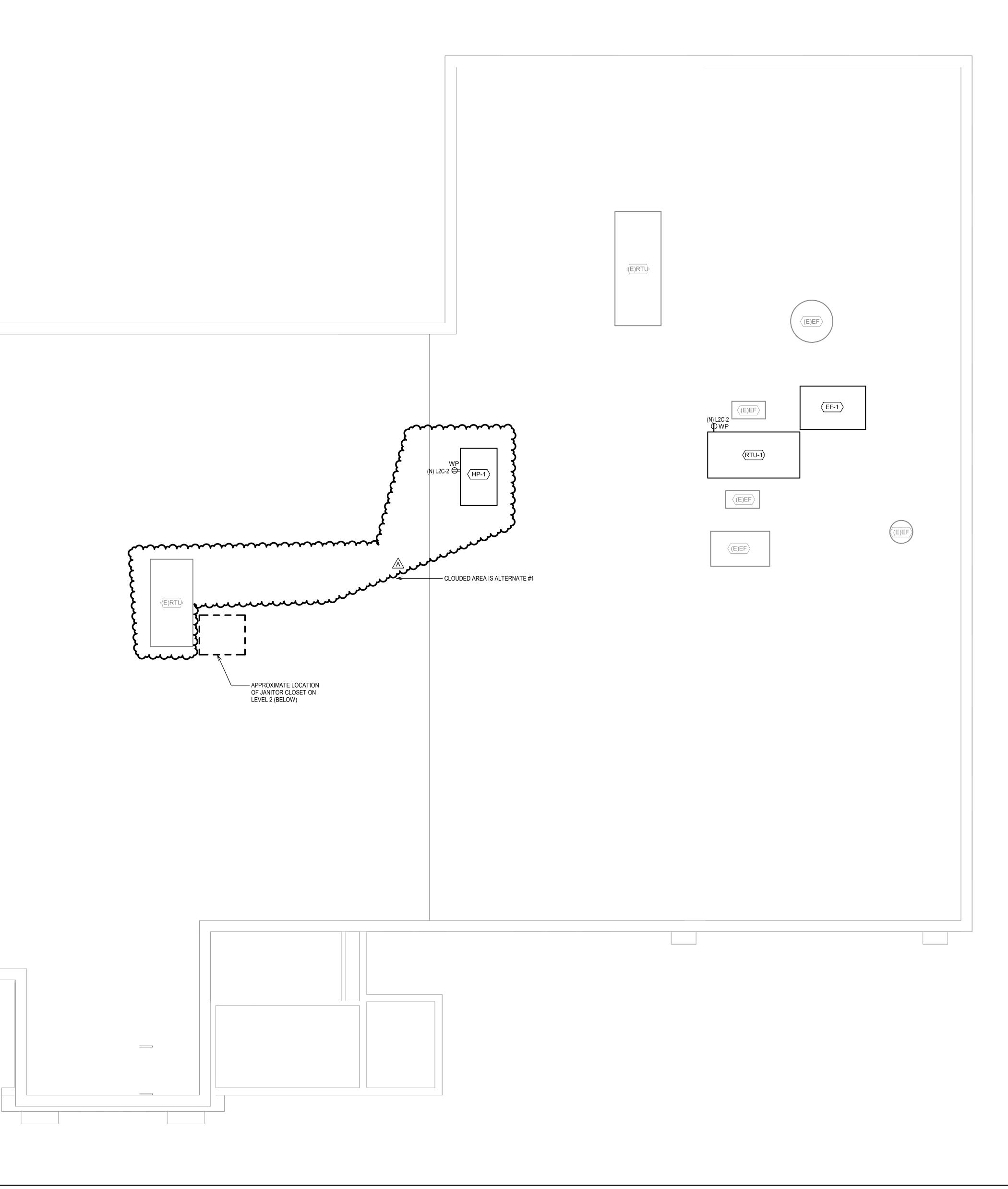
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. 2. LAB RECEPTACLES ARE TO BE GFCI PROTECTED. SEE PANEL SCHEDULES FOR MORE DETAILS.

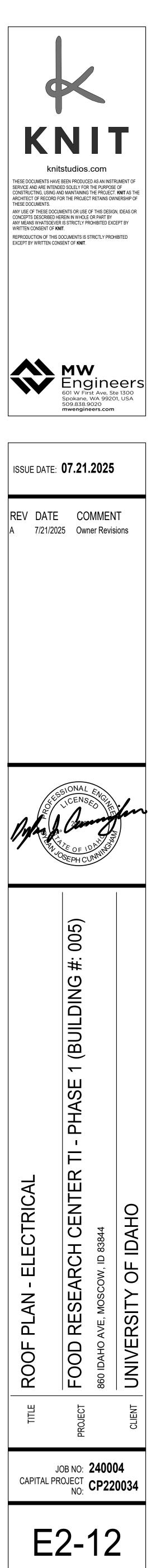
1. PROPOSED ROUTING OF FEEDER CONDUIT FOR RTU-1 2. ISLAND RECEPTACLES FEED FROM LEVEL 1 CEILING BELOW.

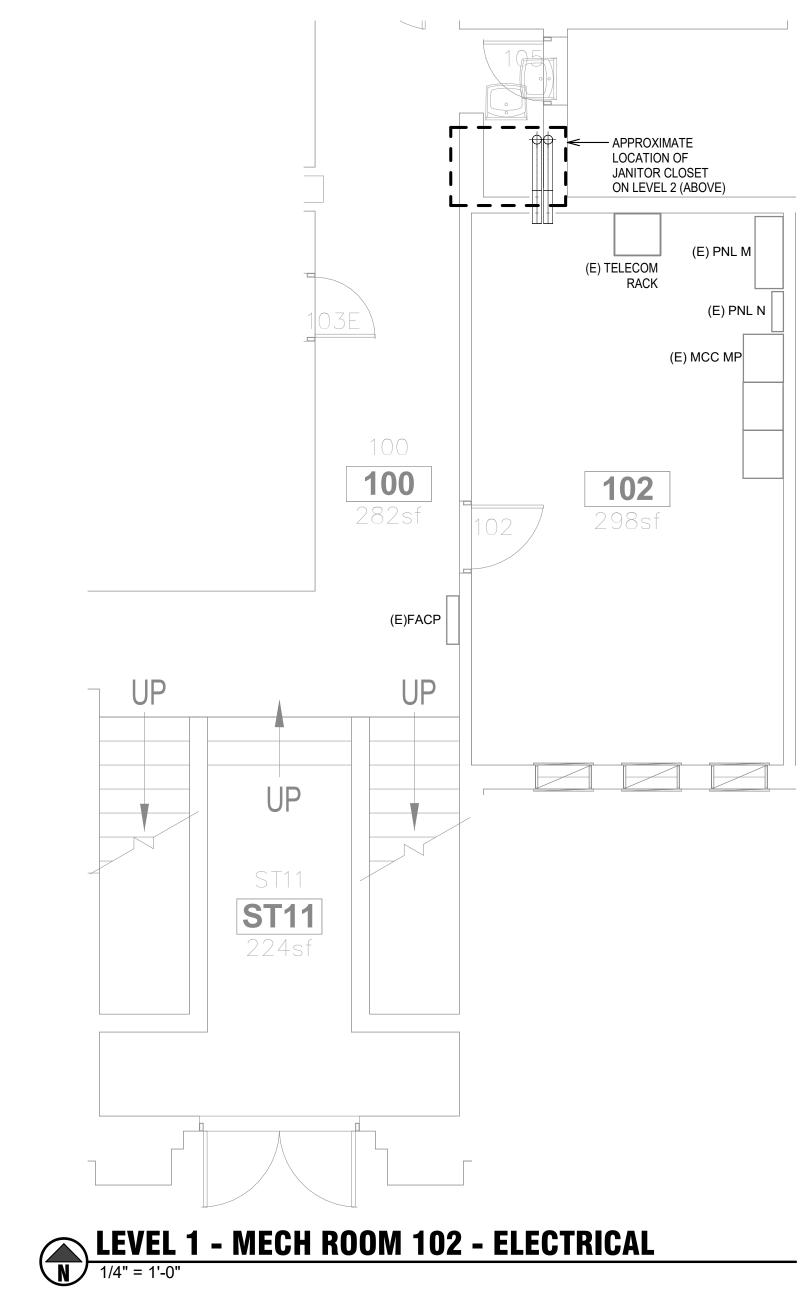


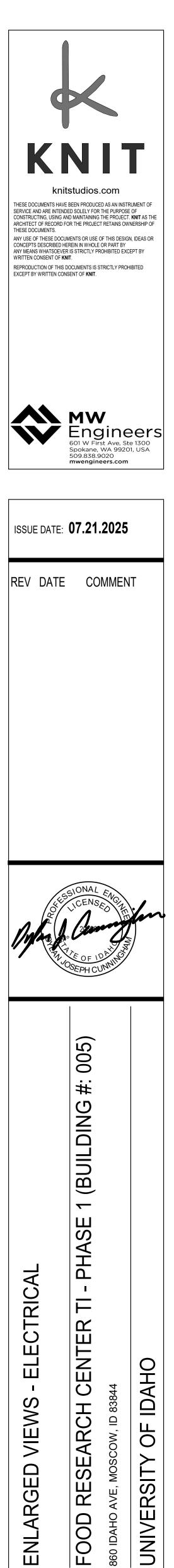
E2-11











FOOD RESEA 860 IDAHO AVE, MOSCC UNIVERSITY (

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OJECT

JOB NO: **240004** CAPITAL PROJECT NO: **CP220034**

E4-01

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GENERAL NOTES:
1. COORDINATE CONNECTION DETAILS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
2. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
3. PROVIDE NEMA 3R RATED EQUIPMENT WHERE INSTALLED OUTDOORS.
4. COORDINATE ALL FUSE SIZES WITH EQUIPMENT VENDOR, EQUIPMENT NAMEPLATES AND SHOP DRAWINGS PRIO
5. PROVIDE NEMA STARTER WHERE INDICATED ON THE SCHEDULE. PROVIDE AT MINIMUM THE SIZE INDICATED.
6. WIRE SIZES ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. WHERE TOGGLE SWITCHES, MANUAL MOTOR STARTERS(MMS) AND MOTOR RATED SWITCHES(MRS) ARE INDICAT
EQUIPMENT SPECIFIC NOTES:
1. OUTDOOR CONDENSING UNIT CIRCUIT POWERS OUTDOOR UNIT AND INDOOR UNIT. SEE MECHANICAL DRAWINGS
2. EQUIPMENT BRANCH CIRCUIT IS OVERSIZED TO ACCOUNT FOR VOLTAGE DROP.
3. EQUIPMENT INDICATED WITH '0' AMPS LOAD IS REDUNDANT AND WILL NOT OPERATE SIMULTANEOUSLY WITH ITS
4. EQUIPMENT IS FURNISHED WITH INTEGRAL THERMAL OVERLOAD PROTECTION FOR THE MOTOR.
5. VFD IS EQUIPPED WITH BYPASS, CIRCUIT BREAKER SIZED ACCORDINGLY.

}		Equipment Name	Description	Room #
{		BSH-1	BIOSAFTY HOOD	
<u></u>		EF-1	EXHAUST FAN	
-	ALT #1	FC-1	FAN COIL	205
8	ALT #1	FH-1	FUME HOOD	207
}		GSV-1	GAS SHUT OFF	207
<u> </u>	ALT #1	HP-1	HEAT PUMP	
A		RTU-1	ROOF TOP UNIT	

EQUIPMENT SPECIFIC NOTES: INDICATED HEIGHTS ARE FOR REFERENCE ONLY. REFER TO AV AND ARCHITECTURAL DRAWINGS FOR FINAL EQUIPMENT HEIGHTS AND LOCATIONS. DIVISION 26 SHALL PROVIDE AND INSTALL ELECTRICAL PROVISIONS AS SCHEDULED.

	Equipment Name	Description	Room #	Voltage	Phase	HP	Amps	kVA	Starter	Disconnect	Fuse Size	# of Sets	Conduit Size	Wire Size/Qty (AWG)	Panel	Circuit Number	
ALT #1	BCA-1	BODY COMPOSITION ANALYZER	205	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	18	
ALT #1	EXT-1	EXAM TABLE	205B	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	20	
ALT #1	EXT-2	EXAM TABLE	205	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	28	
	FRZ-1	FREEZER (-80)	207	208 V	1		10 A	2.080 kVA		NEMA 6-20R		1	3/4"	2#12+1#12G	(N) L2C	41,43	
	FRZ-2	FREEZER (-80)	207	208 V	1		10 A	2.080 kVA		NEMA 6-20R		1	3/4"	2#12+1#12G	(N) L2C	40,42	
	FRZ-3	FREEZER (-20)		120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	39	
	FRZ-4	FREEZER (-20)	207	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	37	
ALT #1	MM-1	METABOLIC MONITOR	205B	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	22	
	REF-1	REFRIGERATOR	207	120 V	1		2.2 A	0.264 kVA		NEMA 5-15R		1	3/4"	2#12+1#12G	(N) L2C	35	
ALT #1	SC-1	SCANNER	205	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	24	
	UF-1	UNDERCOUNTER FLASKSCRUBBER	207	208 V	3		20 A	7.205 kVA		NEMA 11-30R		1	3/4"	3#10+1#10G	(N) L2C	32,34,36	
ALT #1	UT-1	ULTRASOUND	205	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	26	
ALT #1	W/D-1	WASHER/DRYER	205	208 V	1		10 A	2.080 kVA		NEMA 6-20R		1	3/4"	2#12+1#12G	(N) L2C	8,10	
	WPS-1	WATER PURIFICATION SYSTEM	207	120 V	1		5 A	0.600 kVA		NEMA 5-20R		1	3/4"	2#12+1#12G	(N) L2C	30	

DENOTED ITEMS ALTERATE #1 ------

DENOTED ITEMS ALTERATE #1

OR TO ROUGH-IN. D REQUIREMENTS.

NT NAMEPLATES AND SHOP DRAWINGS PRIOR TO ORDERING FUSES OR DISCONNECTS.

Y INDICATED OTHERWISE. MOTOR RATED SWITCHES(MRS) ARE INDICATED FOR EQUIPMENT INSTALLED IN FINISHED AREAS, THEY SHALL BE MOUNTED IN AN ADJACENT, CONCEALED AND ACCESSIBLE LOCATION.

D INDOOR UNIT. SEE MECHANICAL DRAWINGS FOR DETAILS. CIRCUIT SHALL BE STRANDED WIRE.

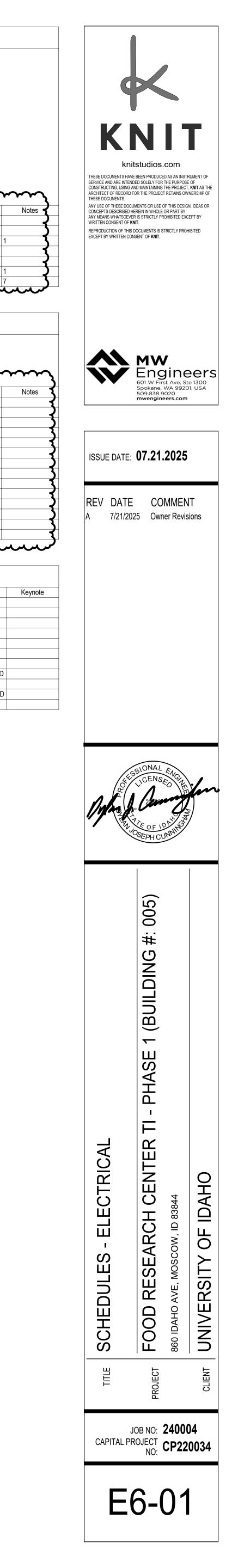
TAGE DROP. LL NOT OPERATE SIMULTANEOUSLY WITH ITS COUNTERPART. SEE MECHANICAL SCHEDULES FOR DETAILS.

ROTECTION FOR THE MOTOR. INGLY. RE TO FACILITATE LOCK-OUT, TAG-OUT OF BREAKER....

Room #	Voltage	Phase	HP	Amps	kVA	Starter	Disconnect	Fuse Size	# of Sets	Conduit Size	Wire Size/Qty (AWG)	Panel	Circuit Number	Notes
	120 V	1		8 A	0.960 kVA		HARDWIRED		1	3/4"	2#12+1#12G	(N) L2C	11	
	208 V	1	.33	4 A	0.832 kVA		TOGGLE SWITCH		1	3/4"	2#12+1#12G	(N) L2C	44,46	
205	208 V	1		0 A	0.000 kVA		TOGGLE SWITCH		1	3/4"	2#12+1#12G	(N) L2C	14,16	1
207	120 V	1		10 A	1.200 kVA		HARDWIRED		1	3/4"	2#12+1#12G	(N) L2C	33	
207	120 V	1		1 A	0.120 kVA		HARDWIRED		1	3/4"	2#12+1#12G	(N) L2C	38	
	208 V	1		18.3 A	3.806 kVA		2P-30A	20A	1	3/4"	2#10+1#10G	(N) L2C	4,6	1
	208 V	3	2.3	69.3 A	24.966 kVA		3P-100A	70A	1	1 1/4"	3#4+1#8G	(E) PANEL M	8,10,12	7

GENERAL EQUIPMENT SCHEDULE - ELECTRICAL

	LI	GHT	FIN	G FIXTI	URE SCHE	DULE
Туре	Description	Lamp	VA	Voltage	Manufacturer	Model #
В	2X4 RECESSED TROFFER	LED	39 VA	120 V	CORONET	SRP24-35-LW-G-ED1-U
B2	2x2 RECESSED TROFFER	LED	23 VA	120 V	COLUMBIA	SRP22-358-LW-G-ED1
BE	2X4 RECESSED TROFFER - EMERGENCY	LED	39 VA	120 V	CORONET	SRP24-35-LW-G-ED1-U-ELL14
E1	LED EXIT FIXTURE	LED	4 VA	120 V	BARRON	700U-LB-WH
Indirect Light Source		LED	0 VA			
P4	LINEAR DIRECT/INDIRECT PENDANT	LED	40 VA	120 V	CORONET	RAY4-UPDN-4-35-LOW-LOW-UNV-DB-W-AC-SD-NA-NA-STD
P4A	LINEAR DIRECT/INDIRECT PENDANT	LED	40 VA	120 V	CORONET	RAY4-UPDN-4-35-MED-MED-UNV-DB-W-AC-SD-NA-NA-STD
P4AE	LINEAR DIRECT/INDIRECT PENDANT	LED	40 VA	120 V	CORONET	RAY4-UPDN-4-35-MED-MED-UNV-DB-W-AC-SD-NA-EMPCK-STD
P8	LINEAR DIRECT/INDIRECT PENDANT	LED	80 VA	120 V	CORONET	RAY4-UPDN-8-35-LOW-LOW-UNV-DB-W-AC-SD-NA-NA-STD
P8E	LINEAR DIRECT/INDIRECT PENDANT - EMERGENCY	LED	80 VA	120 V	CORONET	RAY4-UPDN-8-35-LOW-LOW-UNV-DB-W-AC-SD-NA-EMPCK-STD
Suspended						



		Existing	g Main Switchbo						Circ	uit Bre	eaker F	Panelb	oard						
Description Panel M	Receptacles 45.2	Lights 9.9	Welders	X-Ray Machines	Kitchen Appliances	Motors 68.7		Miscellaneous 64.5	Connected Line Total 71.2	Name: (E) 2A Main: Lugs Volts: 120/208							E	ting: RECESSED Bus: 125A ting: 10,000	
										Breaker	ire: 4 Outlets Ity Cat Not	es Location/Description	Load (VA)	Phase A B C	Ckt#	Breaker Amp P	Outlets Qty Cat N	otes Location/Description	Loae (VA
Connected Total	45.2	9.9				68.7	n/a	64.5	71.2	1 20 1	6 L	(E) 203 LTG N. Bank	600		2	20 1	6 L	(E) 203 LTG S. Bank	6
Demand Total	27.6	9.9				68.7	n/a	64.5	170.7		4 R	(E) 204 Recept	720	*	4	20 1	10 L	(E) Main Hallway LTG	
							-			5 20 1	4 L	(E) 202 LTG	400	×	6	20 1	5 L	(E) 204 LTG	5
otal Load (w/heating factors)	27.0	12.3				68.7		imum Demand	180.8	7 20 1 9 30 1	7 L 6 R	(E) 201 LTG W. Bank (E) 201 Recepts & 203 W. Recept	700 1080	× ×	8 10	30 1 30 1	4 L 4 L	(E) 206 Hallway LTG (E) 206D LTG	4
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·						109.0		7 L	(E) 201 LTG E. Bank	700			20 1	4 L 5 L	(E) 205 Ceiling LTG	5
	Totals includir	g existing loa	ids (if any)			-		Demand Total	279.7	13 20 1	1 M	(E) AIR 208	1200		14	30 1	4 L	(E) 208 LTG & Cooler LTG	4
							<u> </u>	ctor for existing)	317.1	15 20 1	1 M	(E) AC Rm 208	1200	*	16	20 1	4 L	(E) 210A LTG	
		F	- ormula: (180.8 kV)	A+109.0 kVA*1.2	5)/(1.732*0.208 kV)	Minin	num Amper	age Required	880 Amps	17 20 1	4 R	(E) 203 Recept E. Wall	720	×	18	20 1	5 R	(E) 205 Recepts W. Wall	ę
otes: 1. Existing 1-year	beak demand o	of 98kW/109	kVA recorde	d in June 20	016.					19 20 1	4 R	(E) 205 Recept E. Wall	720	*	20	20 1		(E) Spare	
0, 1, 1,										21 20 1	5 R	(E) 208 Lal Table Recepts	900	×	22	20 1		(E) Spare	
										23 20 1	5 R	(E) 210 Lab Table Recepts	900		24	20 1	7 R	(E) 210, 206A, 206B Recepts	
										25 20 1	1 M	(E) AC Rm 206C	1200	×	26	20 1	6 R	(E) 206C, 206D Recepts	10
										27 20 1		(E) Spare		*	28	30 1	8 L	(E) 206B LTG S. Bank	
			Circuit	Procker	Danalhaar	4				29 30 1	5 L	(E) 206B LTG Center Bank	500		30	20 1	8 L	(E) 206B LTG N. Bank	8
			Circuit	. Dreaker	Panelboard		ounting: a c			· · · · · · · · · · · · · · · · · · ·	10 L	(E) 206C LTG	1000	*	32	20 1	1 Z	(E) Hood 205	12
Name: (E) Panel M						IVI	ounting: Surfac	e .		33 20 1		(E) Spare		×	34	30 1		(E) Spare	
Main: Lugs							Bus: 600A Bracing: 10,000			35 20 1		(E) Spare		*	36	30 1	3 R	(E) 205 Recepts E. Wall	Ę
Volts: 120/208							Bracing. 10,000	•		37 20 1	4 R	(E) 306 Corridor Recepts	720	×	38	20 1		(E) Spare	
Phase: 3 Wire: 4				and Dhana	Dree	lkan Outlata			Laad	39 20 1		(E) Spare		×	40	20 1	7 R	(E) 208, 204 Recepts	12
Breaker Outlets Ckt# Amp P Qty Car	Notas	Location/Descripti		oad Phase VA) A B (eker Outlets P Qty Cat		Location/Description	Load	Totals					1				
1 225 3	1 Existing	Location/Decompti		VA) A B C	2 100				n (VA)	Load	d on Phase /	ς: 9,820 VA					Category (Qty Load	
3	"			·····	4			5		Load	d on Phase l	B: 7,760 VA				Recept	acles (R):	60 10,800 VA	·····
5	"				× 6		"			Load	d on Phase (C: 7,720 VA					_ights (L):	97 9,700 VA	
7 225 3	Existing			× .	8 100	3 1 M	1 Elevat	or	6240						-				
9	"			×	10		"		6240										
11					× 12				6240										
13 225 3	1 Existing			×	14 20	1	Spare			Total Load (w/he									
15				*	16 20	1	Spare			Minimum	Feeder Siz	_{e:} 76.7 Amps				М	otors (M):	3 3,600 VA	
17				د	× 18 20		Spare			Formula: 27.6 kVA /(1.732*0.208 kV) Miscellaneous (Z): 1 1,200 VA									

	Lug: 120/	5	M Wire:	4		C	ircuit Br	ea	ke	r P	anelb	oar	d			Bus:	Surface 600A 10,000
	Brea	aker	Ou	tlets			Load		Phas	e		Brea	aker	Out	tlets		
Ckt#	Amp	Ρ	Qty	Cat	Notes	Location/Description	(VA)	Α	В	С	Ckt#	Amp	Р	Qty	Cat	Notes	Locat
1	225	3			1	Existing		×			2	100	3			1	Existing
.3									×		4						
5						" 				×	6						"
7	225	3			1	Existing		×			8	100	3	1	М	1	Elevator
9						"			×		10						"
										×	12						
13	225	3			1	Existing		×			14	20	1				Spare
15									×		16	20	. 1				Spare
17						" Spore				×	18	20	1				Spare
19	20	1			2	Spare		×.			20	20	1				Spare
21	20	1			2	Spare Spare			×		22	20	1				Spare Spare
23	20	1			2	Existing				×	24	20	1				Spare
25 27	225	3			1			×			26 28	20 20	1				Spare
29						"		-		×	30	20	1 1				Spare
29 31	20	1				Spare		×		.	30	20	 1				Spare
33	20	! 1				Spare			×		34	20	1				Spare
35	20	1				Spare				×	36	20	- 1				Spare
37	20	<u>1</u>				Spare		×			38	225	3			1	Existing
39	20					Spare			×		40					•	
41	20	1				Spare				×	42						"
Totals																	
Totalo		1	o ad o	n Pha	<u>ς</u> Δ.	14,369 VA								Cate	egory	Qty	Load
																-	33,480 VA
						14,299 VA							s (R):				
						11,870 VA								Ligh	ts (L):	94	8,150 VA
		(40,538 VA											
			Den	nand	Load:	133,398 VA											
Tota	l Load	d (w	/heatir	ng fac	tors):	140,116 VA											· · · · · · · · · · · · · · · · · · ·
						388.9 Amps					Motors (M):						36,108 VA
													امروا	laneou	•••••••••••••••••••••••••••••••••••••••	16 33	67,400 VA
Formula: 140.1 kVA					ornuid.	170.1 KVA/(1.132 U.200 KV)							19961		J (4)		

Notes: 1. EXISTING TO REMAIN 2. DEMOLISH EXISTING SPARE BREAKERS. REPLACE WITH NEW 3P-70A BREAKER AS SHOWN.

Name: Main: Volts: Phase:	Lugs 120/2	5	IM Wire:	4												Bus:	Surface 600A 10,000	
	Brea	aker	1	tlets			Load	F	Phas	е		Brea	aker	Out	lets			Load
Ckt#	Amp	Ρ	Qty	Cat	Notes	Location/Description	(VA)	Α	В	С	Ckt#	Amp	Р	Qty	Cat	Notes	Location/Description	(VA)
1	225	3			1	Existing		×			2	100	3			1	Existing	
3							· · · · · · · · · · · · · · · · · · ·		×		4							
5	005					" Evicting				×	6	100					" 	
	225	3			1	Existing		. X	•••		8	100	3	1	M	1	Elevator	62
9 11						. W			×	× .	10 12							62 62
13	225	3			1	Existing		×			14	20	·····. 1				Spare	
15	220								×		16	20	1				Spare	
17						п				×	18	20	1				Spare	
19	70	3	1	M	2	(N) RTU-1	10208	. x			20	20	: 1				Spare	
21						"	10208		×		22	20	1				Spare	
23						. n	10208			×	24	20	. 1				Spare	
25	225	3			1	Existing		×			26	20	1				Spare	
27						· !!	· · · · · · · · · · · · · · · · · · ·		×		28	20	1				Spare Spare	· · · · · · · · · · · · · · · · · · ·
29 31	20					Spare		· × ·		×	30 32	20 20	 				Spare	
33	20	····!··· 1				Spare		^	×		34	20	····!··· 1				Spare	
35	20	1				Spare				×	36	20	1				Spare	
37	20	1				Spare		×			38	225	3			1	Existing	
39	20	1				Spare			× .		40							
41	20	1				Spare				×	42						n	
Fotals																		
		L	oad o	n Pha	se A:	24,577 VA								Cate	gory	Qty	Load	
		L	oad o	n Pha	se B:	24,507 VA	Receptacles (R):									242	43,560 VA	
	Load on Phase C: 22,078 VA						Lights (L):										9,857 VA	
	Connected Load: 71,162 VA														· · · · · · · · · · · · · · · · · · ·			
						166,149 VA												
Total		۰																
Total Load (w/heating factors): 176,269 VA Minimum Feeder Size: 489.3 Amps														/R A)		60 242 \/A		
Minimum Feeder Size: 400.0 Amps										Motors (M):						18 68,342 VA		
Notes:				Fo	ormula:	176.3 kVA /(1.732*0.208 kV)	Miscellaneous (Z):									48	61,170 VA	

Location/Description	Load (VA)
]	
r	6240 6240
	6240
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-	
) VA	
VA	
3 VA) VA	

Notes: 1. PANEL SHOWN FOR LOAD CALCULATIONS ONLY.

2. PANEL IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

						Circ	uit Br	ea	ker F	Panelb	oar	d					
Name:														Мо		Surface	
Main:														P		225A	
Volts:		208	\ A /:											DI	racing.	10,000	
Phase:			Wire:				Laad	r			Dree	-	0t	lata			Laad
Ckt#	Amp	aker P	Out Qty	Cat	Notes	Location/Description	Load	A	Phase B C	Ckt#	Brea Amp		Out Qty	Cat	Notes	Location/Description	Load
1	20		Qty	Gal	Notes	(E) Spare	(VA)	×	ВС	2	20	г 1	5	R	NOLES	(E) 210 Recepts	(VA) 900
3	20	1	······	M		(E) Cool Rm Evaporator (Spare?)	1200		× .	4	20	!	5	R		(E) 210 Recepts	900
5	20	1	2	R		(E) Cooler Recepts	360		×		20	1	2	R		(E) Roof Recept	360
7	20	1	6	R		(E) 203 Plugmold West	1080			8	30	2	1	Z		(E) Centrifuge	1200
9	20	1	6	R		(E) 203 Plugmold West	1080		×	10						"	1200
. 11	20	1	1	Z		(E) 203 Sink Disposal	1200		×	12	20	1	1	Z		(E) Load	1200
13	20	1	1	Ζ		(E) Load	1200	×		14	20	1	1	Ζ		(E) Freezer Room 203	1200
15	20	1	1	Z		(E) Load	1200		×	16	20	. 1	1	Z		(E) Load	1200
17	20	1	6	R		(E) 203 Plugmold South (Spare?)	1080		×	18	20	1	1	Ζ		(E) Load	1200
19	20	1	1	Z		(E) Load	1200	×		20	20	. 1	1	Z		(E) Load	1200
21	20	1	1	Z		(E) Load	1200		×	22	20	1	1	Z		(E) Outside Security System	600
23	50	2	·····1	R		(E) 205 30A Recept	180		×		30	2	1	Z		(E) 203 Left/Right Oven	1200
25						"	180			26						"	1200
27	20	1	1 .	R		(E) 208 Office Recept	180		X	28	30	2	1	Z		(E) Large Surface Unit	1200
29	20	1	1	R		(E) 208 Office Recept	180		×							"	1200
31	15	3	1 .	Z		(E) Load	600		1	32		2	11.	Z		(E) Load	1200
33						" '#	600		×	34						" 	1200
35	60	3					600		×	36 38	20 50	1 3		Z		(E) Load	1200 2000
37 39	00	3	I	Z		(E) Load	2500 2500		×	30 40	50	<u>з</u>	ا	Z		(E) Load	2000
41						п	2500		×							π	2000
							2000			42						1	2000
Fotals					•	15 660 \/A							Cat		04.7		
						15,660 VA								gory		Load	
						16,260 VA						Rece	eptacle	s (R):	35	6,300 VA	
		Lo	oad or	n Pha	se C:	14,460 VA											
		C	Conne	cted I	Load:	46,380 VA											
						46,200 VA											
Total	Load	d (w/				46,500 VA											
- otai						129.1 Amps				Motors (M): 1 1,200 VA							
	IVI									· · · · · · · · · · · · · · · · · · ·							
				F	ormula:	46.5 kVA /(1.732*0.208 kV)					M	iscel	laneou	s (Z):	19	38,700 VA	

1. DEMOLISH EXISTING PANEL AND ASSOCIATED BREAKERS AND BRANCH WIRES. 2. REMOVE EXISTING LOAD FROM PANEL 2B AND MOVE TO PANEL L2B.

3. CONTRACTOR TO VERIFY EXISTING CIRCUITS.

Name: Main: Volts: Phase:	Lug: 120/	5	Wire:	4												Bus:	Surface 225A 10,000	
	1	aker	Out				Load	F	Phase	е		Brea	aker	Outl	ets			Load
Ckt#	Amp	Р	Qty	Cat	Notes	Location/Description	(VA)	Α	В	С	Ckt#	Amp	Р	Qty	Cat	Notes	Location/Description	(VA)
1	20	1	1	М		(E) Furnace on Roof	1200	×			2	20	1	4	R		(E) Rm 206 E. Wall Recept	72
3	20	. 1	1	М		(E) Fume Hood Rm 208B (Spare?)	1200		×		4	20	. 1		R		(E) Rm 206 SE. Wall Recept	72
5	20	1	6	R		(E) Rm 206 Recept Center Counter	1080			×	6	20	1	5	R		(E) Rm 206 S & SE Wall Recept	90
7	20	1	4	R		(E) Rm 206 Recept North Counter	720	×			8	20	1		R		(E) Rm 208 W. Recepts	72
9	20	1	2	R		(E) Rm 206 110V Recept	360		×		10	20	1	4	R		(E) Rm 208 W. Recepts	72
11	20	1		R		(E) Rm 208 Recept W. Wall	540			. x :	12	20	:::1:::	6	R		(E) Rm 206 Center Counter Recept	108
13	20	1	3	R		(E) RM 201 E. Wall Recept	540	×			14	20	1	4	R		(E) Recept E. Hall	72
15	20	1	4	R		(E) Rm 201 W. Wall Recept	720		×		16	20	1	4	R		(E) 205 Recept W. Wall	72
17	20	1	4	R		(E) Rm 201 W. Wall Recept	720			×	18	20	1	1	Z		(E) Load	120
19	20	1	4	R		(E) Rm 201 AC Recept W. Wall	720	×			20		1				(E) Load	120
21	20	1	1	Z		(E) Load	1200		×		22	20	2	4	R		(E) Rm 206 N. Wall 220V Recept	72
23	20			R		(E) 110V 30A Recept W. Wall	180			×	 24							72
25	20	2	1	R		(E) Rm 206 220V 30A Recept SE Wall	180	×			26	20	2	1	Z		(E) Rm 206	120
23		<u> </u>	'	• •			180		×.		20		-		-			120
29	20	2	1	R		(E) Rm 206 220V 30A Recept W Wall	180			×	30	20	2	1	Z		(E) Rm 210 Oven	120
29 ····31	20	۷		<u>л</u>		(E) Rm 206 220V 30A Recept W Wall	180	. x			30	20	۷	 	ک			150
	20	•	4						•••			20	•••••		7			1
33	20	2	1	M		(E) Rm 208 Fume Hood	1200		×		34	20	2	1	Z		(E) Rm 205 Oven	150
35	40	•					1200			×	36							150
37	40	3	1	Z		(E) Rm 205 Sterilizer	2000	×			38	30	3	1	Z		(E) Load	150
39						11	2000		×		40							150
41						"	2000			×	42						"	150
Totals																-	1	
						13,100 VA								Cate	gory	-	Load	
		Lo	oad or	ו Pha	se B:	13,940 VA						F	Rece	ptacles	s (R):	72	12,960 VA	
		Lo	oad or	n Pha	se C:	14,300 VA												
						41,340 VA												
						38,780 VA												
Total						39,380 VA												
	М	inim	um Fe	eder	Size:	109.3 Amps								Motors	s (M):	3	4,800 VA	
				Fo	ormula:	39.4 kVA /(1.732*0.208 kV)						Mi	scell	aneou	s (Z):	8	22,500 VA	
						ASSOCIATED BREAKERS AND BRANC ANEL 2C AND MOVE TO PANEL L2B.	CH WIRE	S.										

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 | Name

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 | Ci | rcuit | Brea | ker | Par | nelbo | oard | |
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 | Main:
Volts:
Phase:

 | : 120/ | 208 | Wire: | 4 |
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18,000 |
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 | 11
13

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1,3
 | (E) 203 Sink Dis
(E) Load | posal
 | | 1: | 200
200 × | | × | 12
14 | 20
20 | 1 | 1
 | Z
Z | 1,3
1,3 | (E) Load
(E) Freezer F | Room 203
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 | rstem | | | |

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 | 23
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180 × | | × | 24
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 | 20 | 1 | | | 1,3
1,3
 | SPARE |
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30 | 30 | 2 | 1
 | Z | 1,3 | (E) Large Su | rface Unit
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 | 15 | | 1 | z | 1,3
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 | 37
39

 | 60 | 3 | 1 | Z | 1,3
 | (E) Load |
 | | 2 | 500 ×
500 | × . | | 38
40 | 50 | 3 | 1
 | Z | 1,3 | (E) Load |
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 | 41
43

 | 20 | 1 | 1 | M |
 | (E) Furnace on I | Roof
 | | | 500
200 × | : | × | 42
44 | 20 | 1 | 4
 | R | | "
(E) Rm 206 I |
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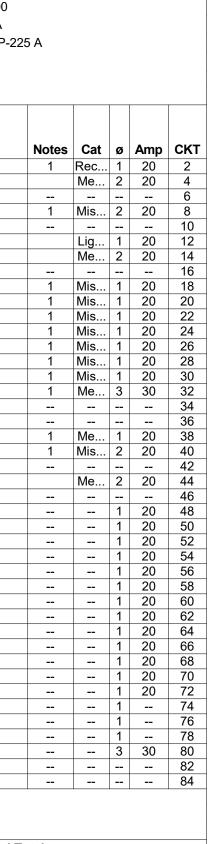
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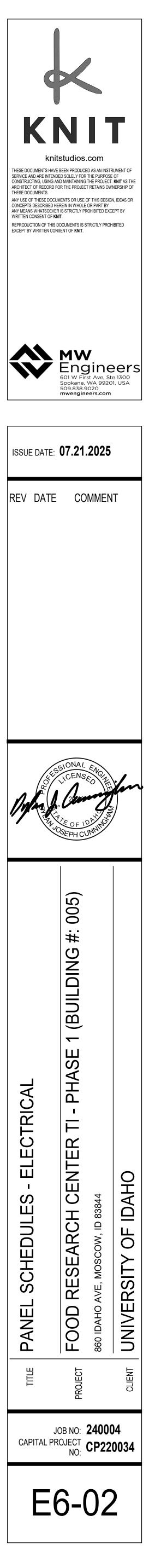
77 1 Space									Space		 1		78
79 1 Space					0				SPD		 3	30	80
81 1 Space						0					 		82
83 1 Space							0				 		84
		1167	78 VA	1412	1 VA	1500	2 VA						
		97	7 A	121	А	12	8 A						
Load Classification	Connected Loa	ad	Dem	and Fac	ctor	Esti	mated [Demand	Panel	Fotals			
Lighting	1709 VA		1	25.00%			2136 \	VA					
Mechanical Motor	14124 VA		1	12.75%			15925	VA	Total Conn. Load:	40795 VA			
Miscellaneous	11904 VA		1	00.00%			11904	VA	Total Est. Demand:	41434 VA			
Receptacle	13140 VA			88.05%			11570	VA	Total Conn. Current:	113 A			
									Total Est. Demand Current:	115 A			

General Notes: 1. PROVIDE FULL BOTTOM SKIRTS AND TOP SKIRT TO +8'-6"

Circuit Notes:

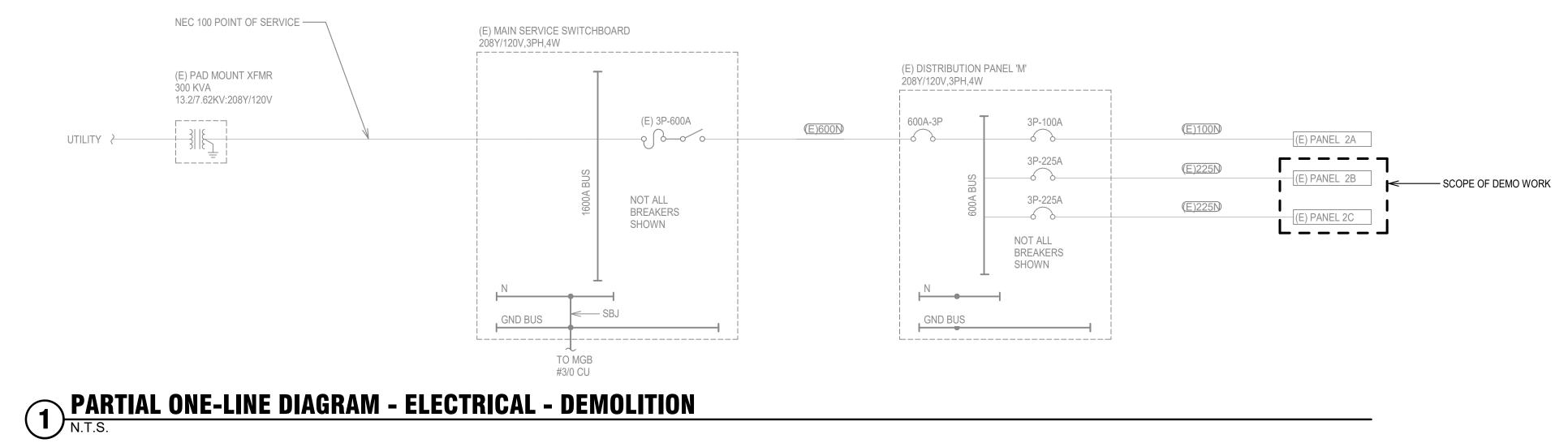
1. PROVIDE GFCI CIRCUIT BREAKER WITH 5mA TRIP RATING.

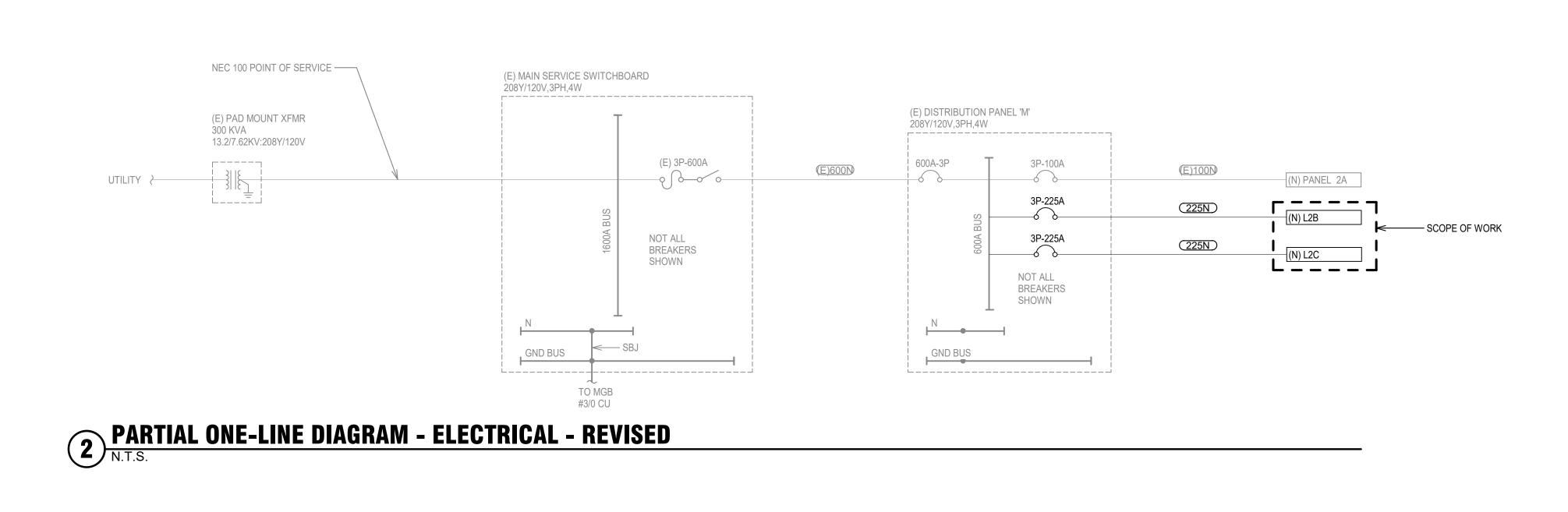




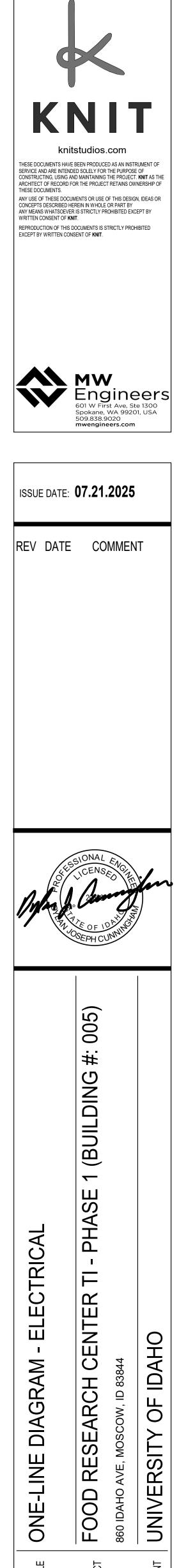
						COI	PPER FEI	EDER SCH	IEDULE						
		FEEI		NEUTRAL		FEEDER \	NITH 200%	NEUTRAL	AND ISOLATED	GROUND		FEEDE	R WITHOU	T NEUTRAL	
AMPACITY (AMPS)	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND	FEEDER NUMBER	NUMBER OF SETS	CONDUIT (INCHES)	CONDUCTOR	GROUND
20	20N	1	3/4	4#12	#12	20K	1	3/4	3#12+#8	2#12	20	1	3/4	3#12	#12
30	30N	1	3/4	4#10	#10	30K	1	1	3#8+#4	2#10	30	1	3/4	3#10	#10
40	40N	1	1	4#8	#10	40K	1	1	3#8+#3	2#10	40	1	1	3#8	#10
50	50N	1	1	4#6	#8	50K	1	1 1/4	3#6+#1	2#8	50	1	1	3#6	#8
60	60N	1	1 1/4	4#4	#8	60K	1	1 1/4	3#4+#1	2#8	60	1	1 1/4	3#4	#8
70	70N	1	1 1/4	4#4	#8	70K	1	1 1/2	3#3+#1/0	2#8	70	1	1 1/4	3#4	#8
80	80N	1	1 1/2	4#3	#8	80K	1	1 1/2	3#3+#2/0	2#8	80	1	1 1/4	3#3	#8
90	90N	1	1 1/2	4#2	#8	90K	1	1 1/2	3#2+#3/0	2#8	90	1	1 1/4	3#2	#8
100	100N	1	2	4#1	#6	100K	1	2	3#1+#3/0	2#6	100	1	1 1/2	3#1	#6
125	125N	1	2	4#1	#6	125K	1	2 1/2	5#2/0	2#4	125	1	1 1/2	3#1	#6
150	150N	1	2	4#1/0	#6	150K	1	2 1/2	5#3/0	2#4	150	1	2	3#1/0	#6
175	175N	1	2	4#2/0	#4	175K	1	2 1/2	5#4/0	2#2	175	1	2	3#2/0	#4
200	200N	1	2 1/2	4#3/0	#4	200K	1	3	5#250	2#2	200	1	2	3#3/0	#4
225	225N	1	2 1/2	4#4/0	#2	225K	1	3	5#300	2#2	225	1	2 1/2	3#4/0	#2
250	250N	1	3	4#250	#2	250K	1	4	5#400	2#1/0	250	1	3	3#250	#2
300	300N	1	4	4#350	#2	300K	1	4	5#500	2#1/0	300	1	3	3#350	#2
350	350N	1	4	4#500	#1/0	350K	2	2 1/2	5#4/0	2#2/0	350	1	4	3#500	#1/0
400	400N	1	4	4#600	#1/0	400K	2	3	5#250	2#2/0	400	1	4	3#600	#1/0
450	450N	2	2 1/2	4#4/0	#2/0	450K	2	3	5#300	2#2/0	450	2	2 1/2	3#4/0	#2/0
500	500N	2	3	4#250	#2/0	500K	2	4	5#400	2#2/0	500	2	3	3#250	#2/0
600	600N	2	4	4#350	#2/0	600K	2	4	5#500	2#3/0	600	2	3	3#350	#2/0
700	700N	2	4	4#500	#3/0	700K	4	2 1/2	5#4/0	2#3/0	700	2	4	3#500	#3/0
800	800N	2	4	4#600	#3/0	800K	4	3	5#250	2#3/0	800	2	4	3#600	#3/0
1000	1000N	3	4	4#400	#3/0	1000K	4	4	5#400	2#3/0	1000	3	3	3#400	#3/0
1200	1200N	4	4	4#350	#3/0	1200K	4	4	5#500	2#3/0	1200	4	3	3#350	#3/0
1600	1600N	4	4	4#600	#4/0	1600K	8	3	5#250	2#4/0	1600	4	4	3#600	#4/0
2000	2000N	5	4	4#600	#250	2000K	8	4	5#400	2#250	2000	5	4	3#600	#250
2500	2500N	6	4	4#600	#350	2500K	10	4	5#400	2#350	2500	6	4	3#600	#350
3000	3000N	8	4	4#500	#400	3000K	10	4	5#500	2#400	3000	8	4	3#500	#400
4000	4000N	10	4	4#600	#500	4000K	16	4	5#400	2#500	4000	10	4	3#600	#500
<u>NOTES:</u> 1. CON	NDUIT SIZE	S ARE BAS	ED ON THW	/N INSULATION	FOR ALL C	ONDUCTOF	RS AND RG	S CONDUIT							

Short Circuit	Current Ca	lculations
3 PHASE I	Fault	Total Fault Currents
Name	Bus kV	Sym Amps
L2A	0.208	14356
L2B	0.208	14356
MAIN	0.208	24021
PNL M	0.208	19386.6





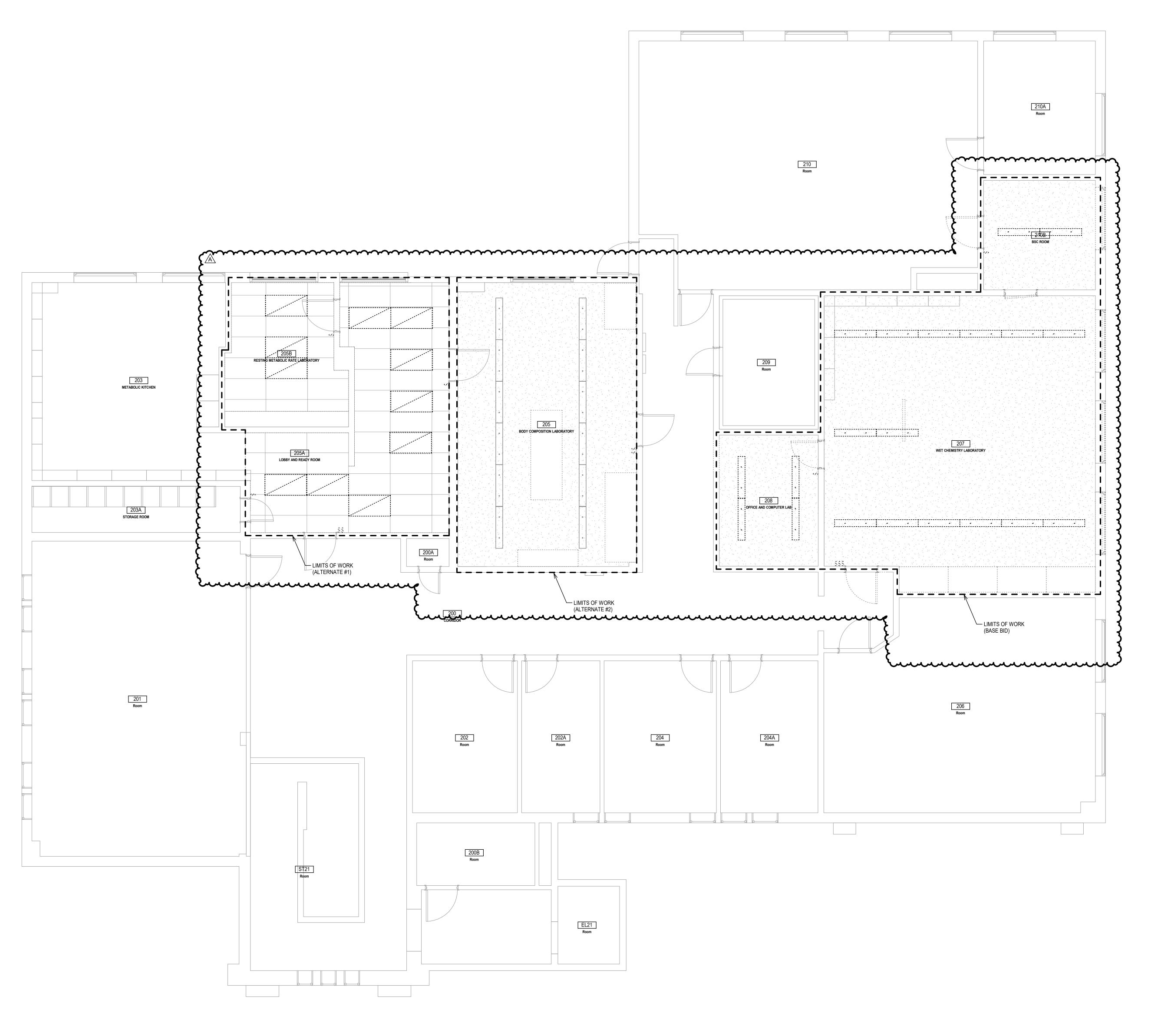
3. ALL EQUIPMENT SHOWN IN THIS DRAWING IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.



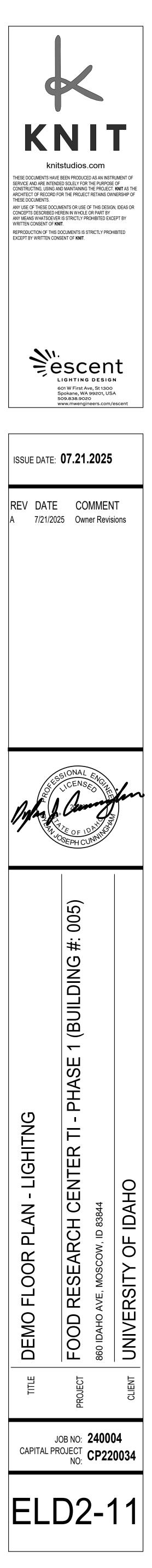
JOB NO: **240004** CAPITAL PROJECT NO: **CP220034** E8-01

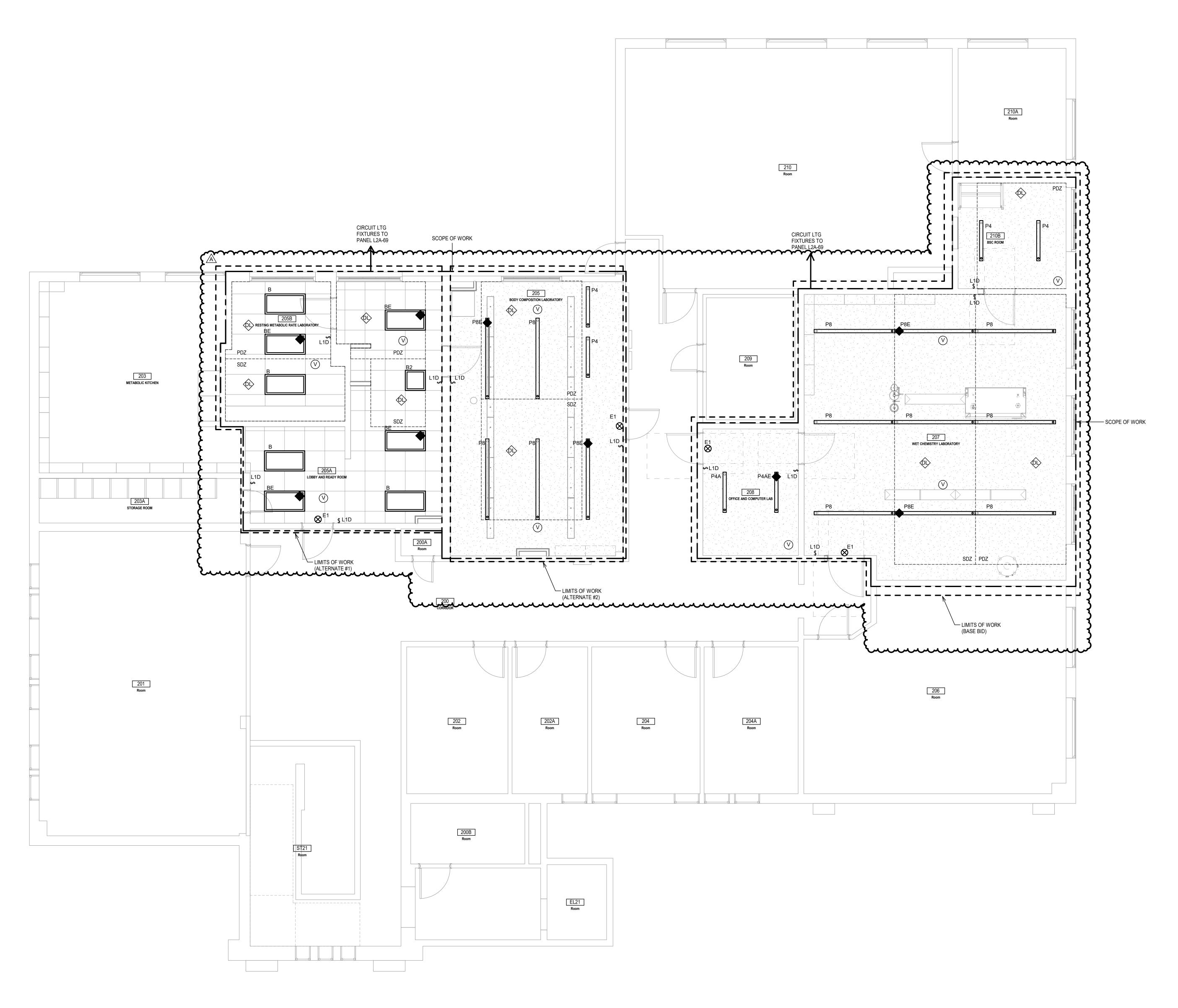
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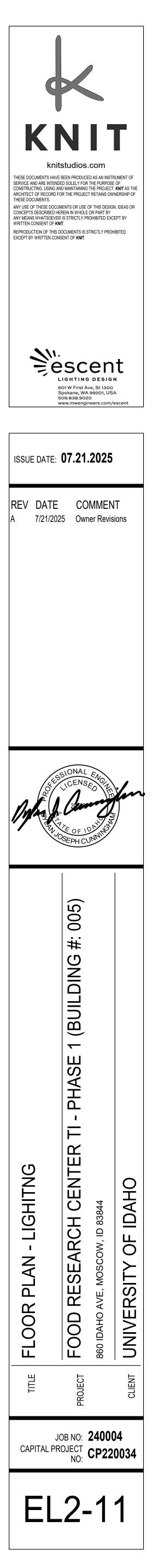


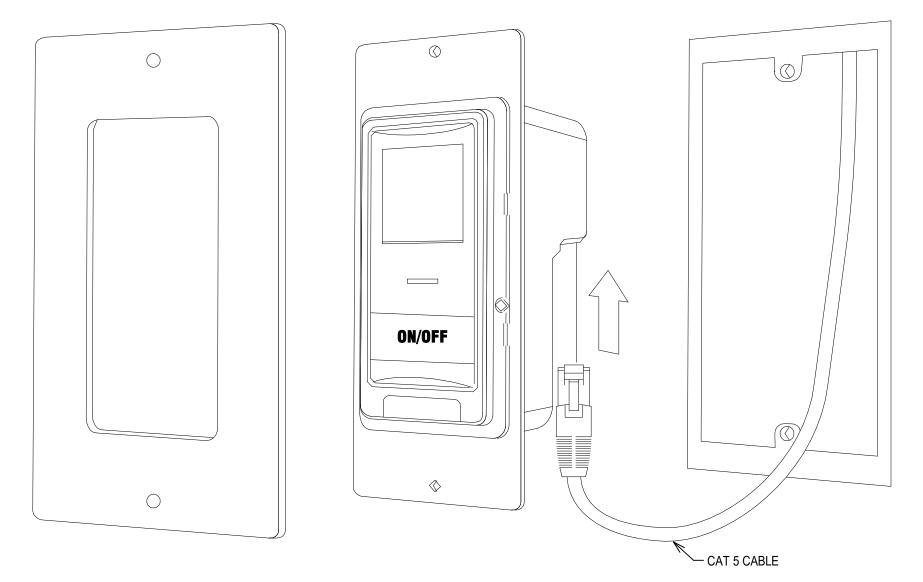
LEVEL 2 - DEMO PLAN - LIGHTING 1/4" = 1'-0"

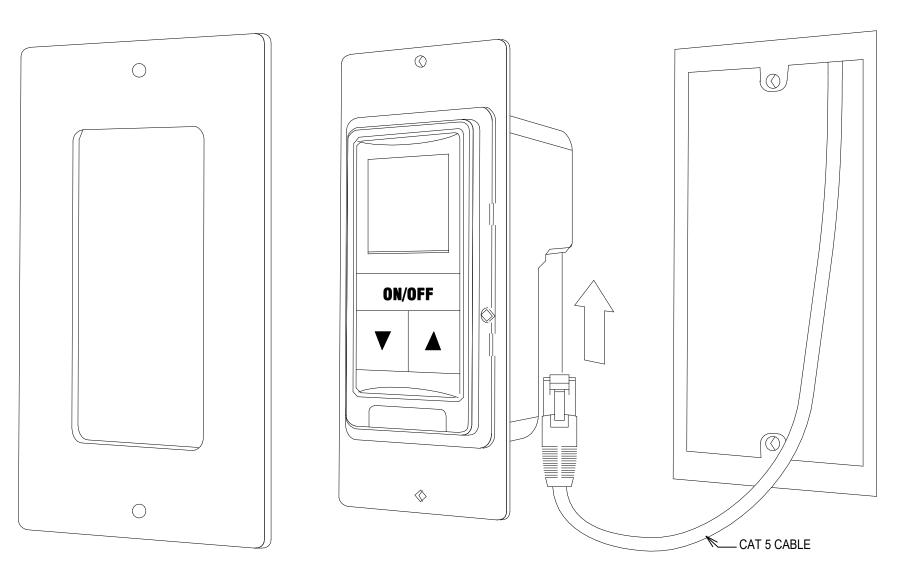




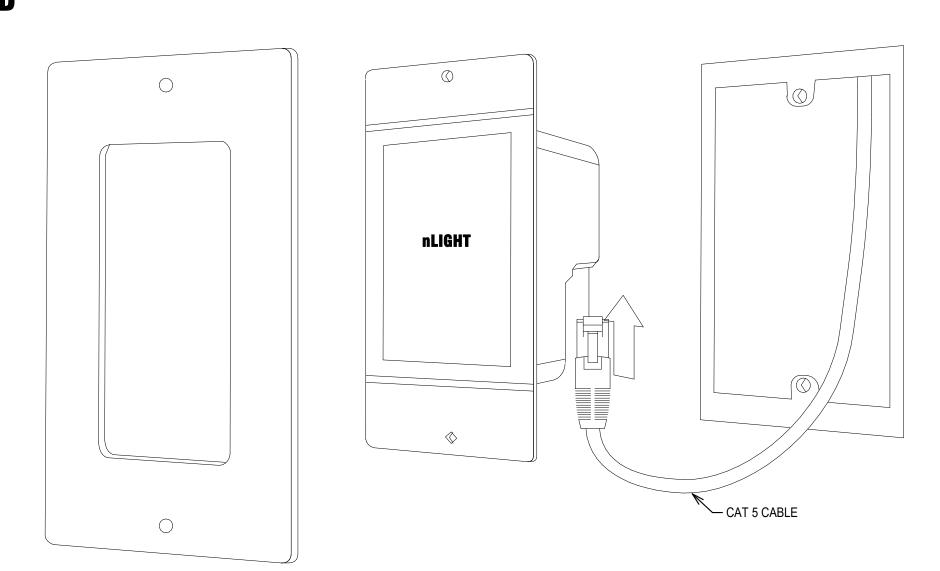
LEVEL 2 - LIGHTING 1/4" = 1'-0"



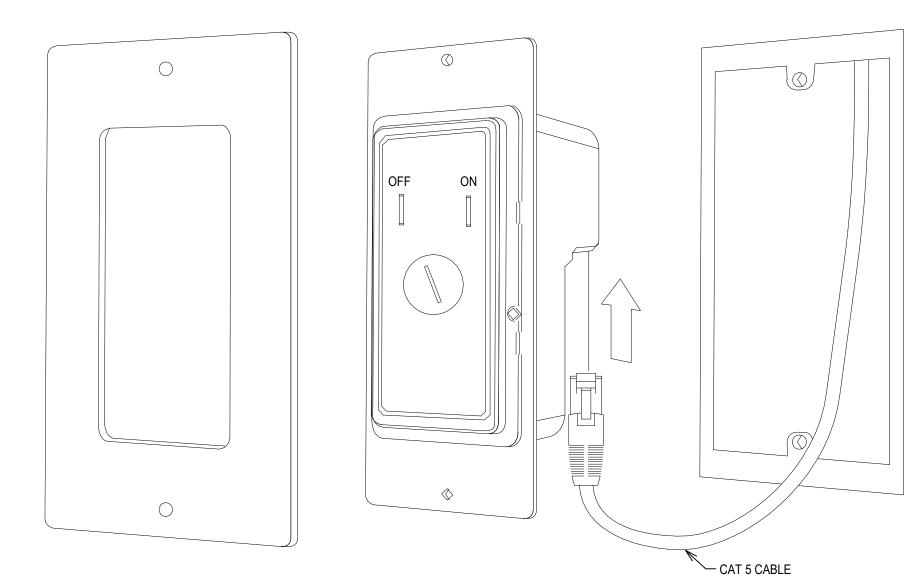




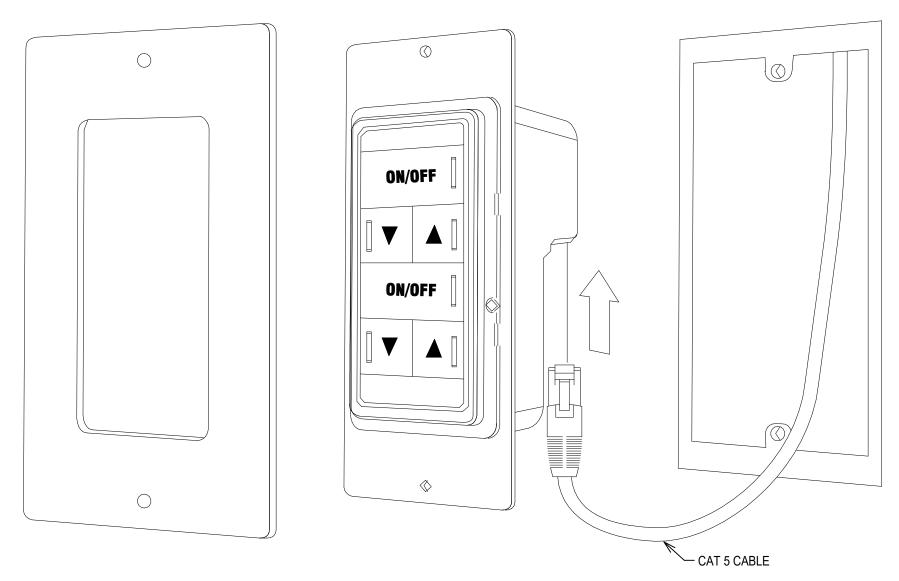
1 ZONE SWITCH WITH VACANCY (\$LVD) / OCCUPANCY (\$LOD) AND \$LVD <u>DIMMING CONTROL</u> \$LOD



\$LTS SWITCH - TOUCH SCREEN

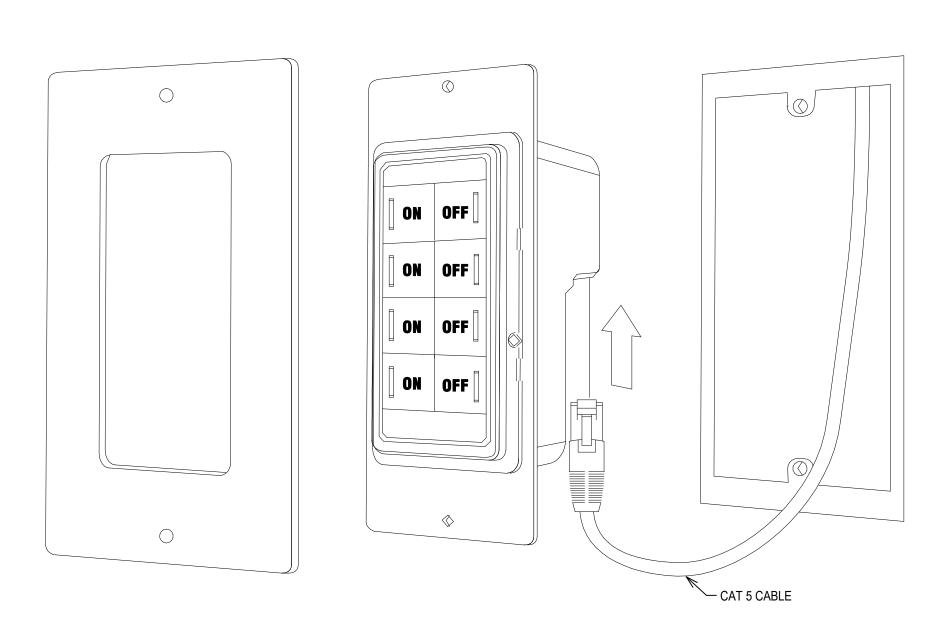


\$LK KEYED ON/OFF

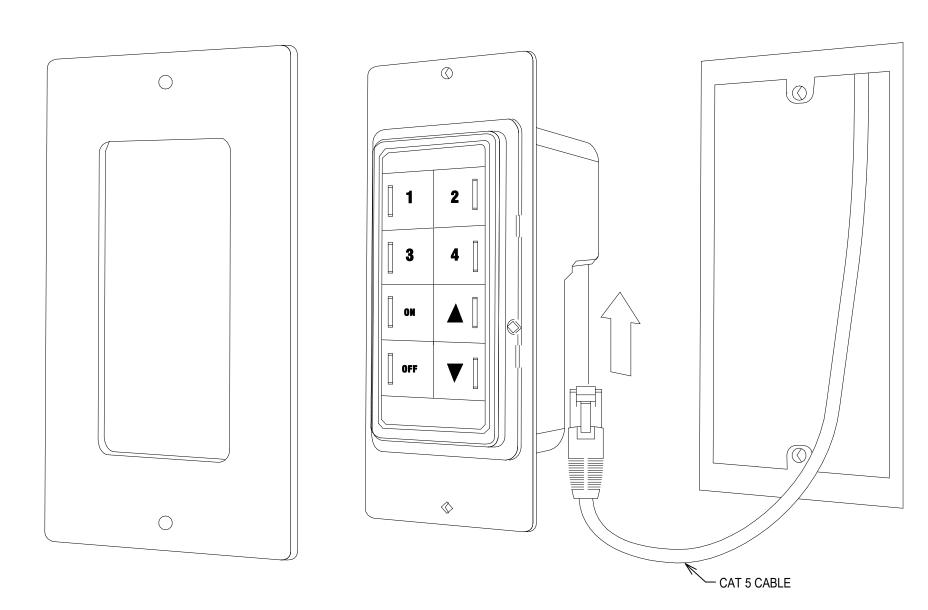




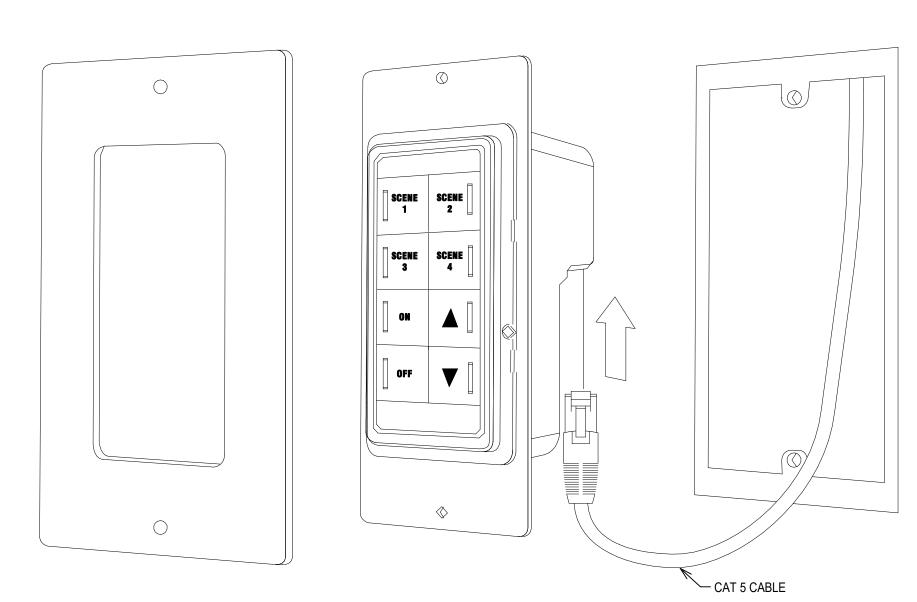
\$L2D 2 ZONE ON/OFF TOGGLE WITH DIMMING



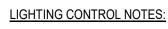




\$L4D 4 ZONE ON/OFF TOGGLE WITH DIMMING

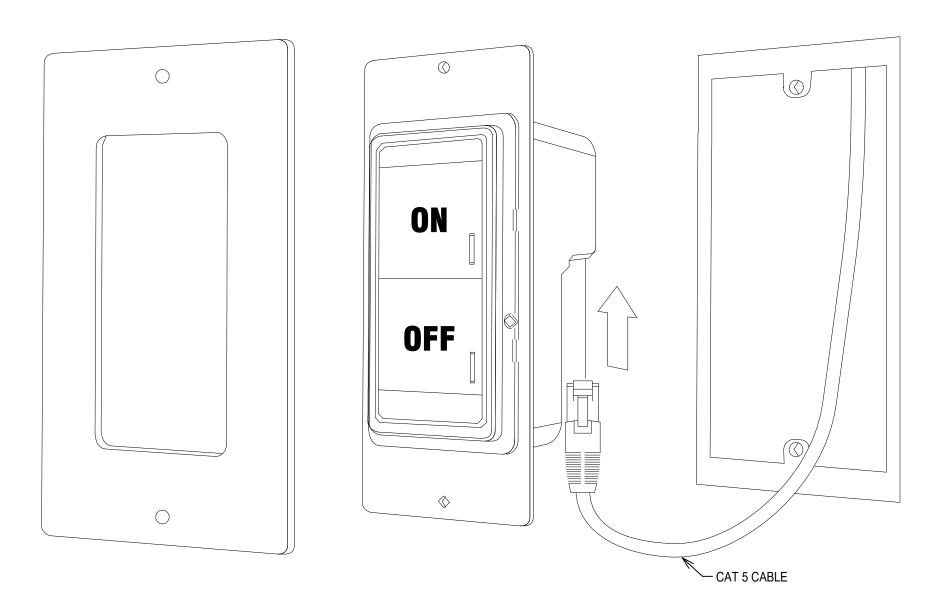


\$L4S 4 SCENE CONTROLLER WITH DIMMING

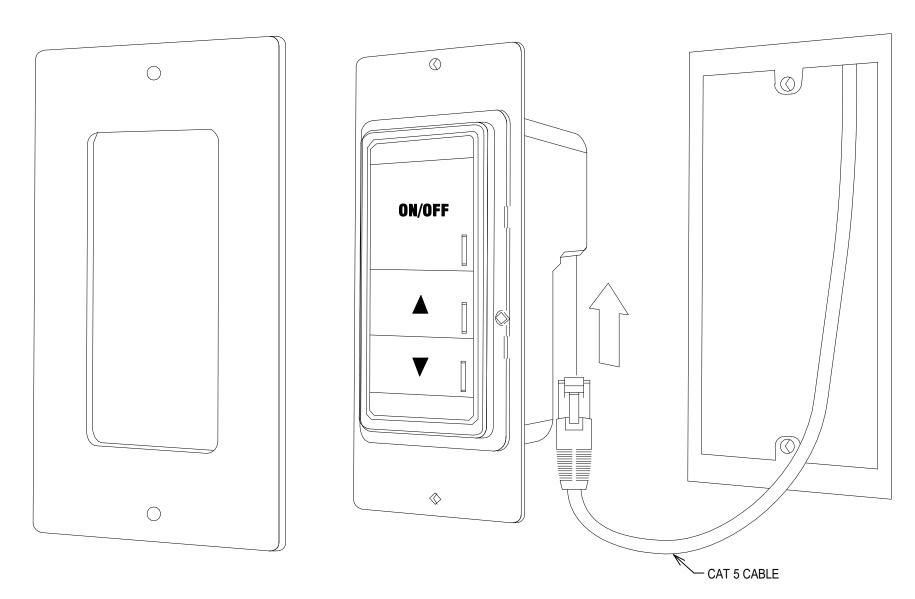


1. CORRIDORS, LOBBIES AND OTHER COMMON AREAS NOT SHOWN WITH OCCUPANCY SENSORS SHALL BE CONTROLLED VIA TIMESWEEP. 2. EXTERIOR LIGHTING (NOT FACADE OR LANDSCAPE) SHALL REDUCE POWER DENSITY BY MINIMUM 30% BETWEEN 12AM AND 6AM. PER ENERGY CODE. 3. EXTERIOR FACADE AND LANDSCAPE LIGHTING SHALL BE CONTROLLED TO AUTOMATICALLY SHUT OFF DAWN TO DUSK VIA TIME CLOCK. PER ENERGY CODE.

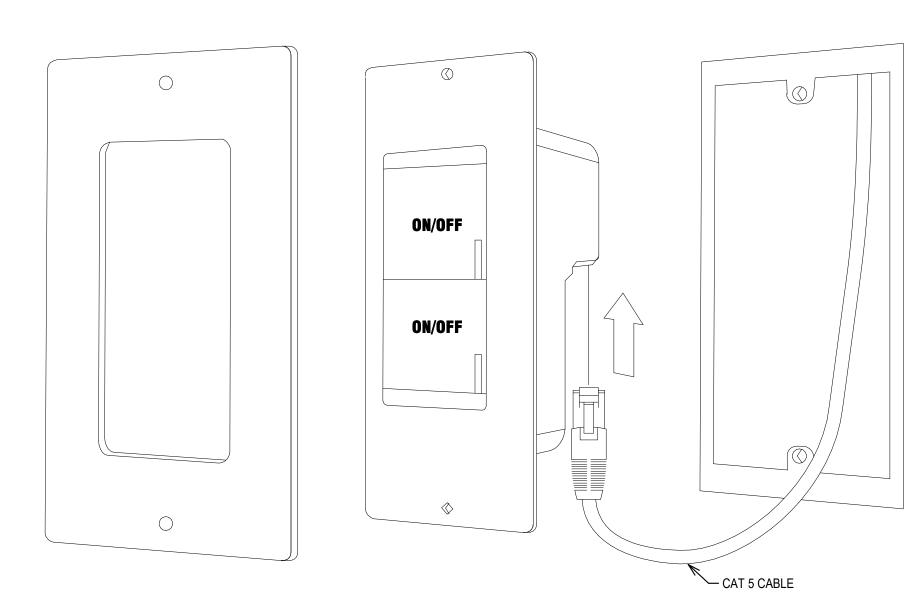
NOTE: NOT ALL DETAILS MAY BE INCLUDED IN PROJECT



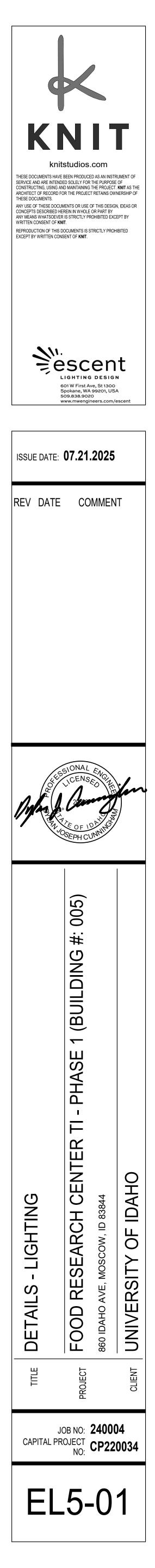
\$L1 1 ZONE ON/OFF TOGGLE

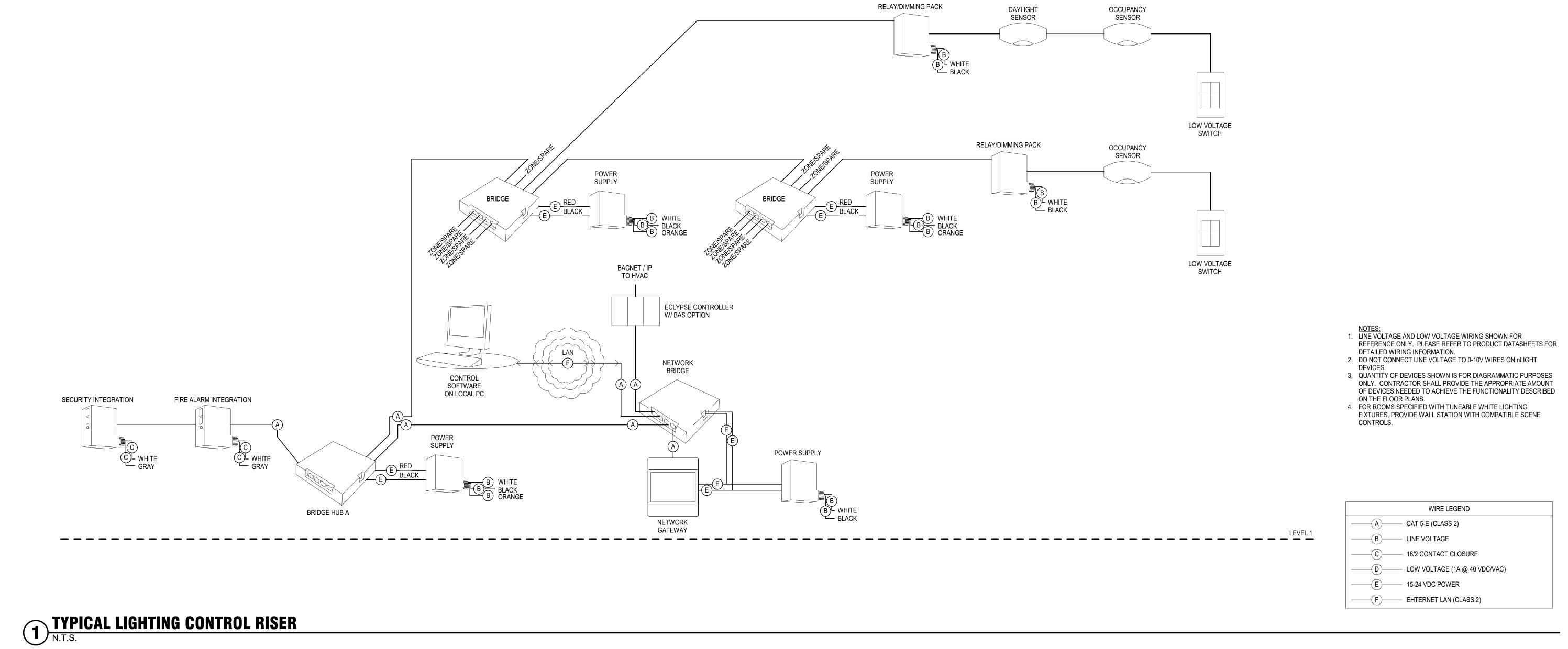


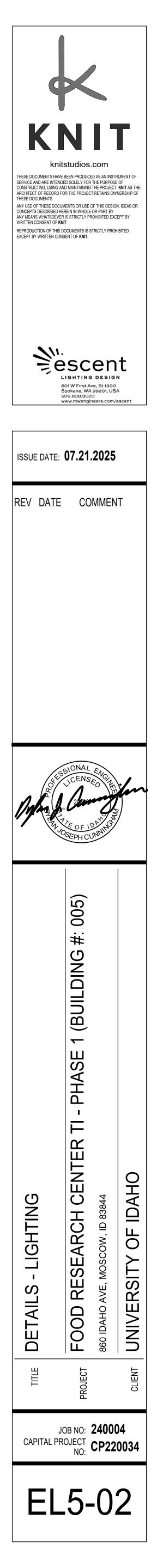
\$L1D 1 ZONE ON/OFF TOGGLE WITH DIMMING



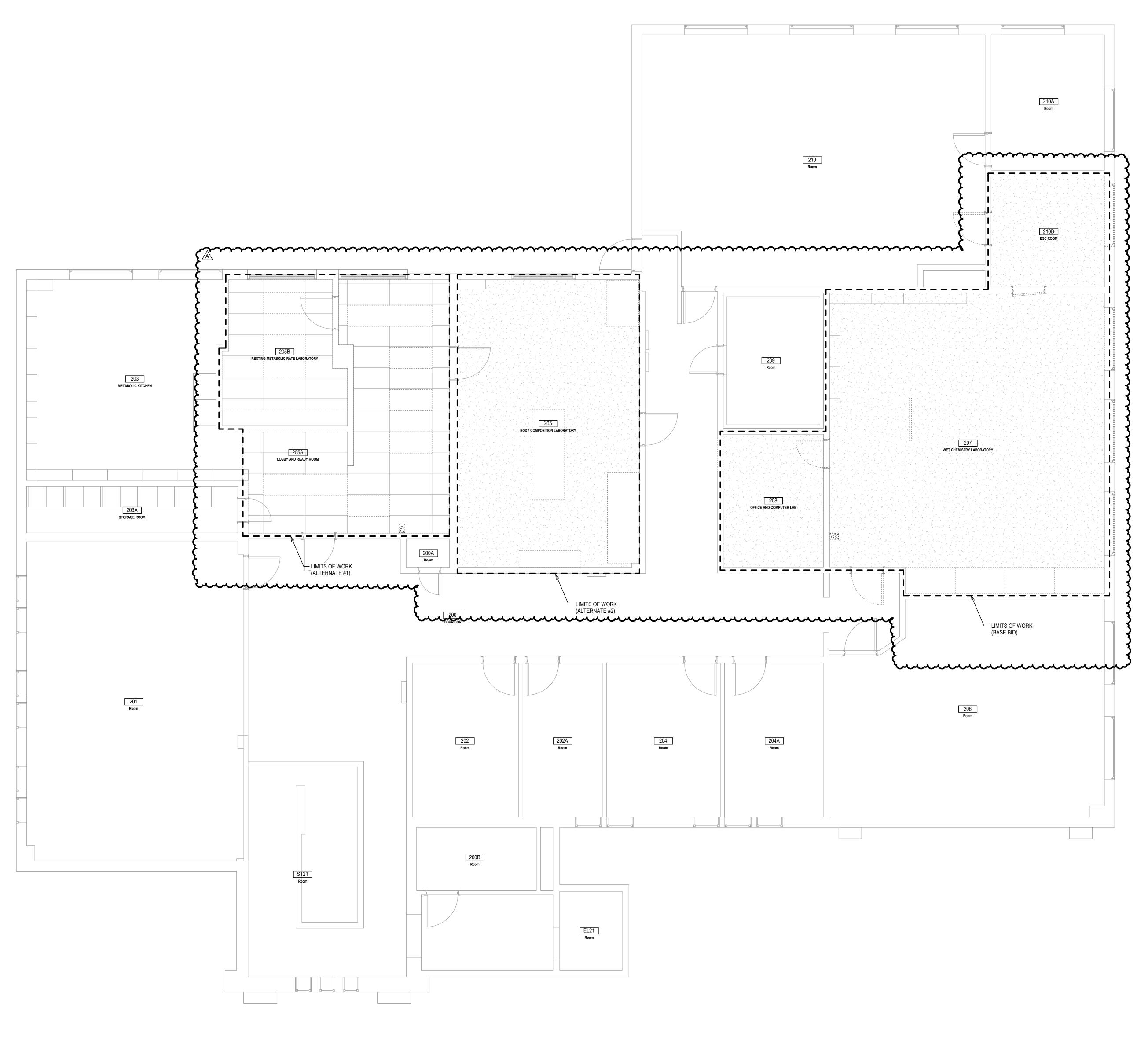




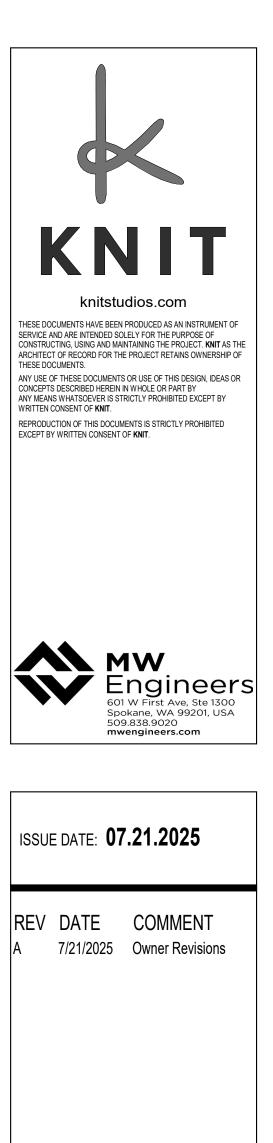


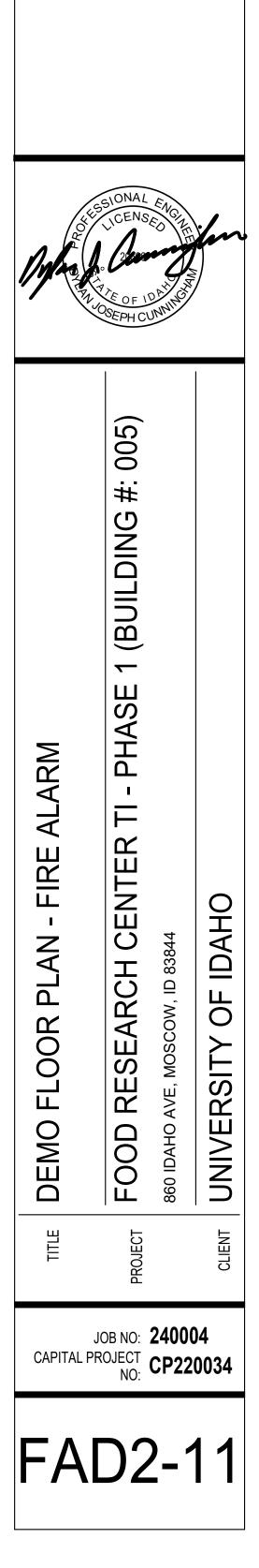


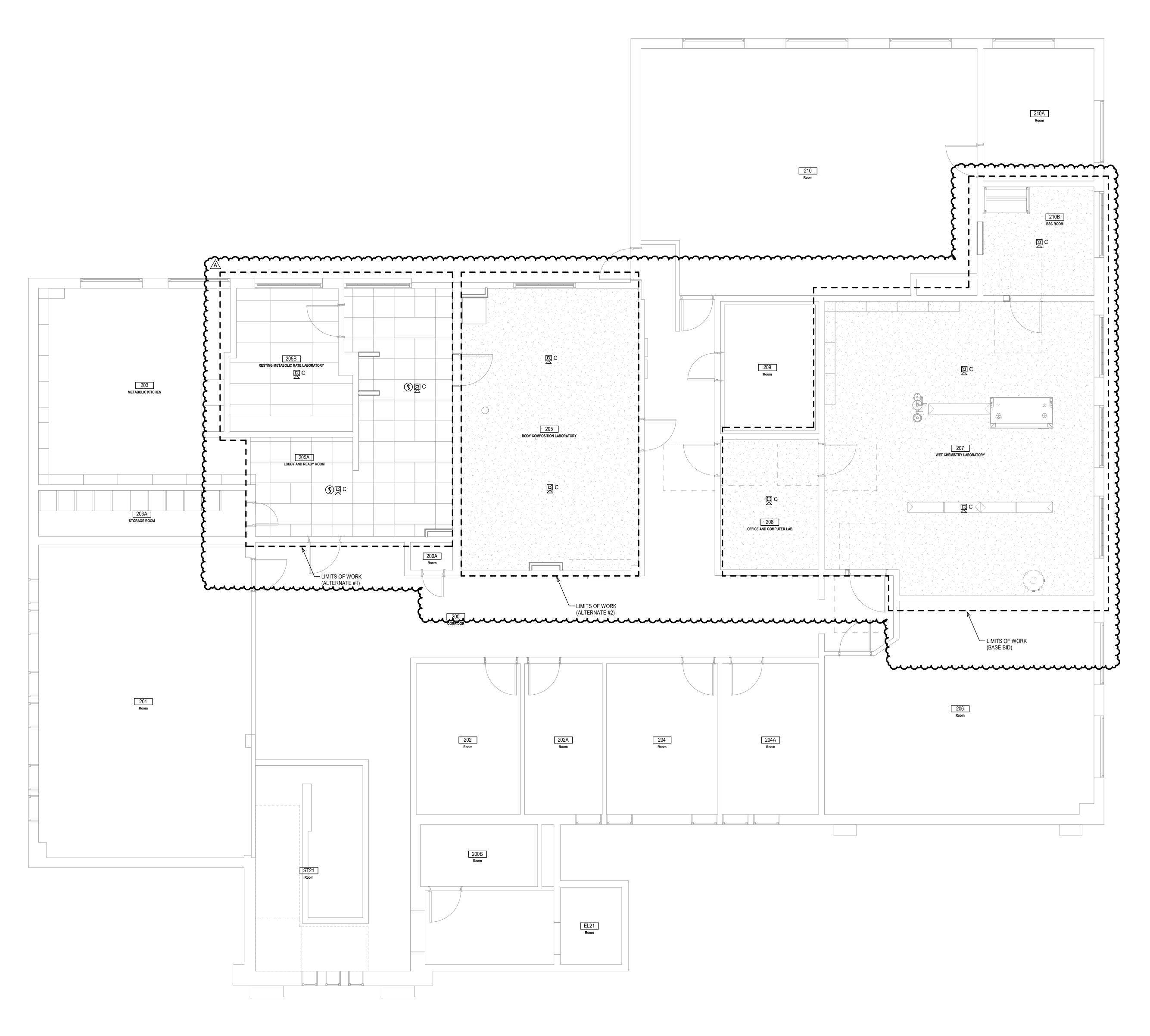




LEVEL 2 - DEMO PLAN - FIRE ALARM 1/4" = 1'-0"



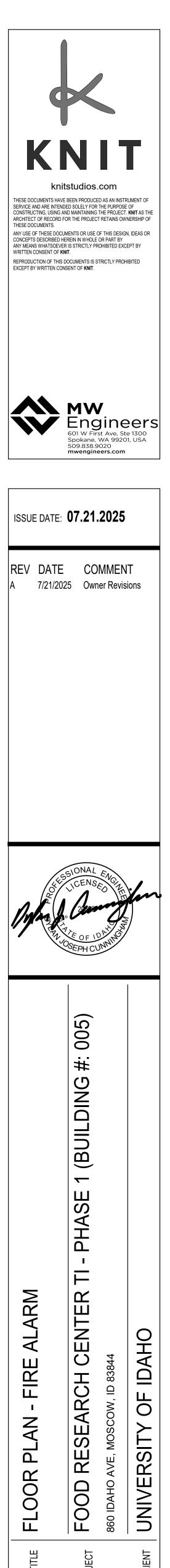




LEVEL 2 - FIRE ALARM 1/4" = 1'-0"

GENERAL NOTES:

FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
 FACP LOACED IN THE FIRST FLOOR CORRIDOR.



JOB NO: **240004** CAPITAL PROJECT NO: **CP220034** FA2-11

<u>COMMUNICATIONS SYMBOLS</u>

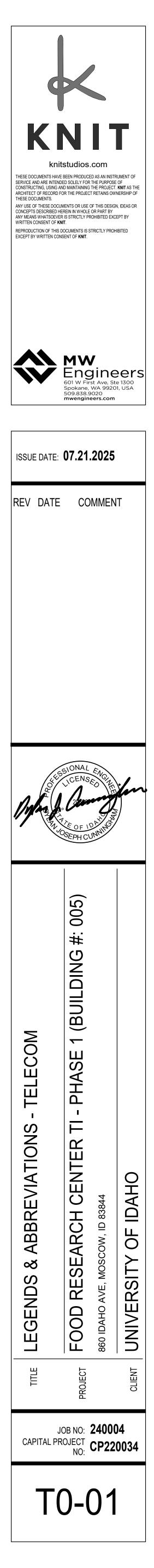
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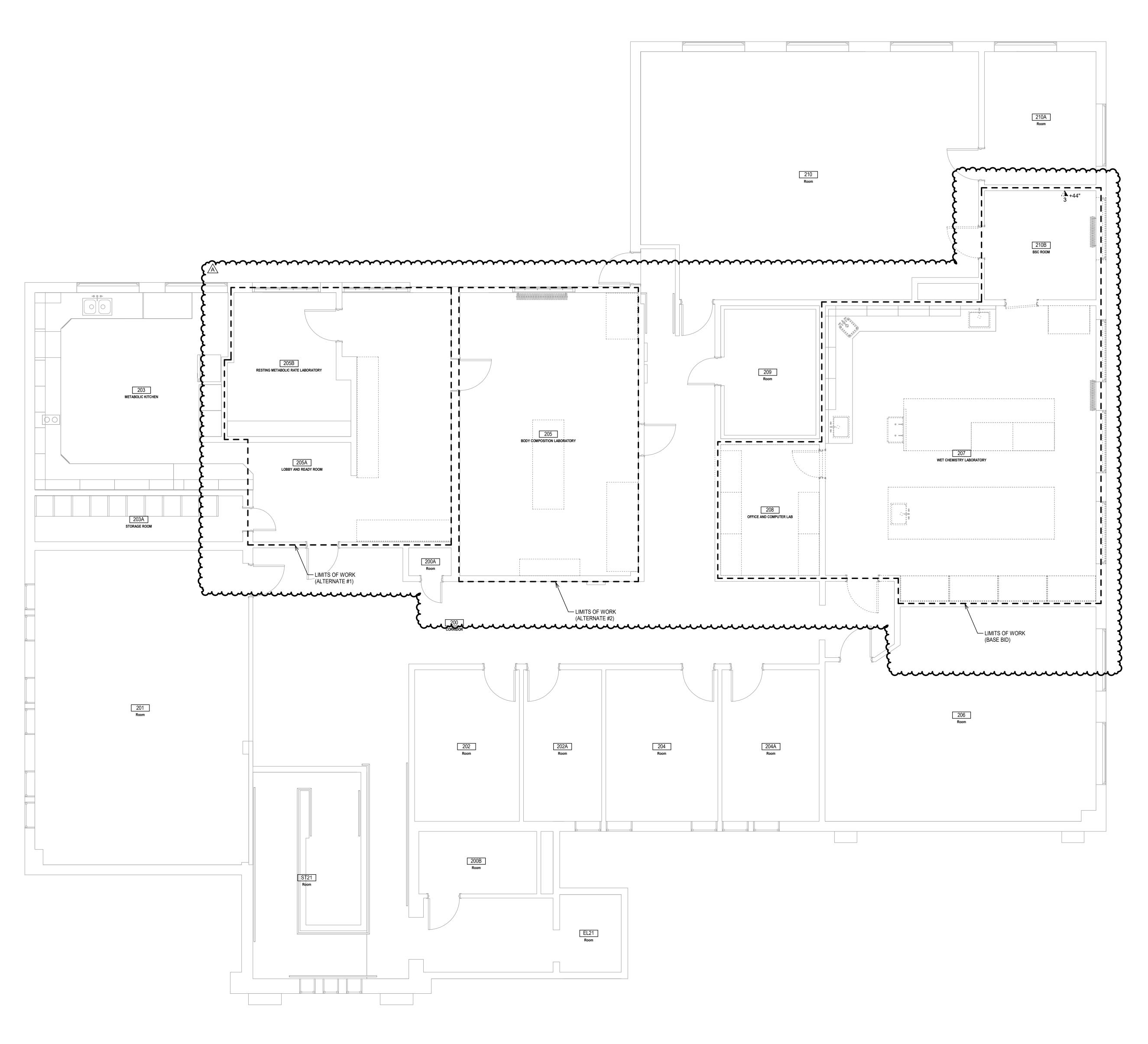
WAP V 3-PORT COMMUNICATIONS OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT 6A RJ-45 JACKS, WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T5-01 DETAIL 1 FOR OUTLET DETAIL. 3-PORT COMMUNICATIONS OUTLET, (1) 3-PORT FACEPLATE WITH (3) 8-POSITION CAT 6A RJ-45 JACKS, WALL FLUSH MOUNTED 18" AFF, UNLESS NOTED OTHERWISE. REFER TO SHEET T5-01 DETAIL 1 FOR OUTLET DETAIL.

COMMUNICATIONS ABBREVIATIONS

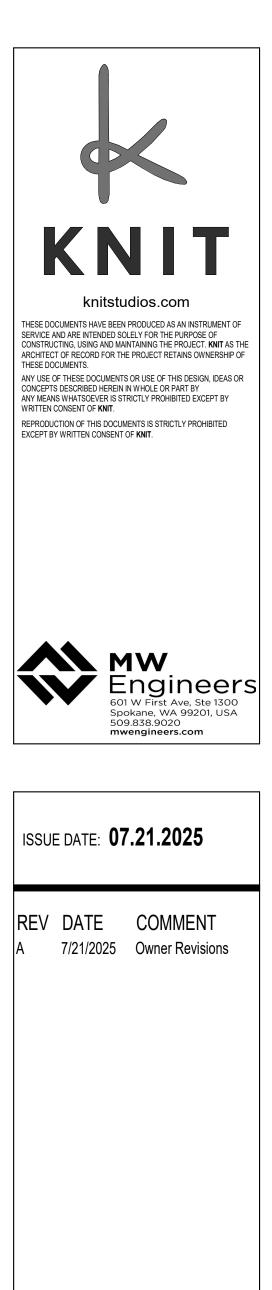
AFF	ABOVE FINISHED FLOOR
ANSI	
	AMERICAN WIRE GAUGE
BB	BACKBONE
BIX	BIX BLOCK
C	CONDUIT
-	CATEGORY 3
	CATEGORY 5
	CATEGORY 5, ENHANCED
	CATEGORY 6
	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CR	
	ELECTRONIC INDUSTRIES ALLIANCE
EMI	
FF	
FO	
	FIBER OPTIC CABLE
	GROUNDING EQUALIZER
HH	HAND HOLE
ISP	INSIDE PLANT
JBOX	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MHz	MEGAHERTZ
MIC	MICROPHONE
MM	MULTIMODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OSP	OUTSIDE PLANT
P/C	PATCH CORD
P/P	PATCH PANEL
PB	PULL BOX
PC	PERSONAL COMPUTER
PR	PAIR
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMU	RACK MOUNT UNIT
SM	SINGLEMODE
SPKR	SPEAKER
STR	STRAND
SWTH	SWITCH TAIL
TBB	TELECOMMUNICATION BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM, ALSO SEE TC
TYP	TYPICAL
UG	UNDERGROUND CONDUIT
UL	UNDERWRITERS LABORATORIES
um	MICRON OR MICROMETER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
WA	WORK AREA
WM	WALL MOUNTED

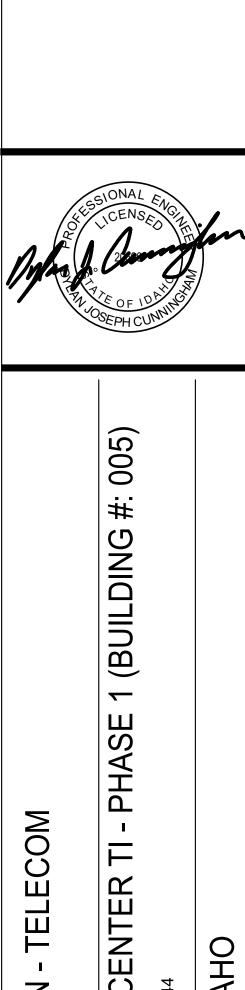
WS WORKSTATION



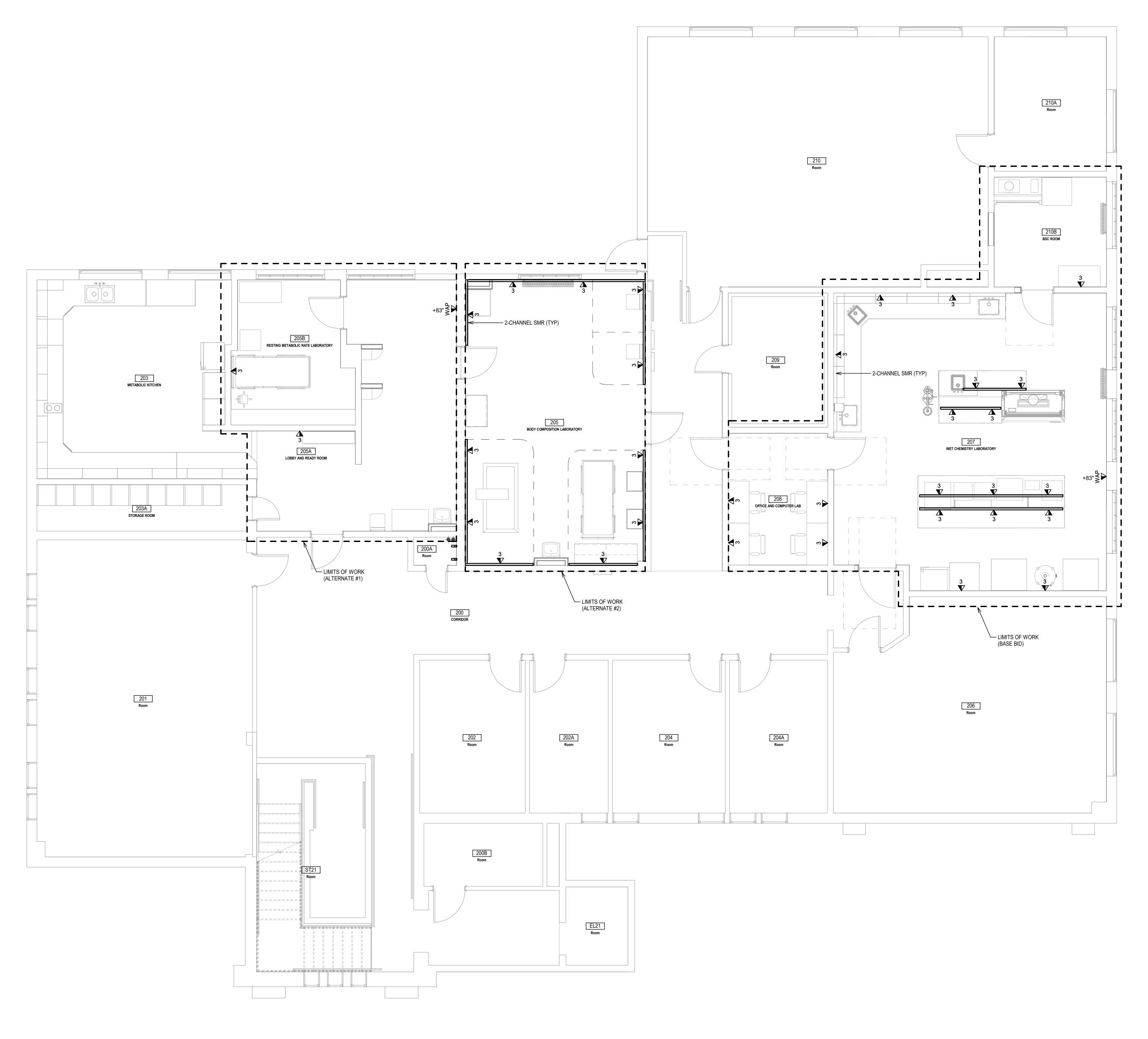


LEVEL 2 - DEMOLITION PLAN - TELECOM

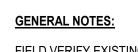




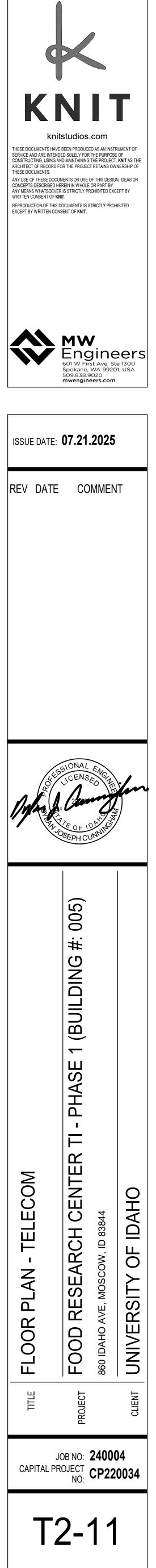
CENTER IDAHO AN Ч ARC ЦО FLOOR RSITY Ш S Ц Ц Ш Ш DEMO UNIVE FOOD JOB NO: **240004** CAPITAL PROJECT NO: **CP220034** TD2-11

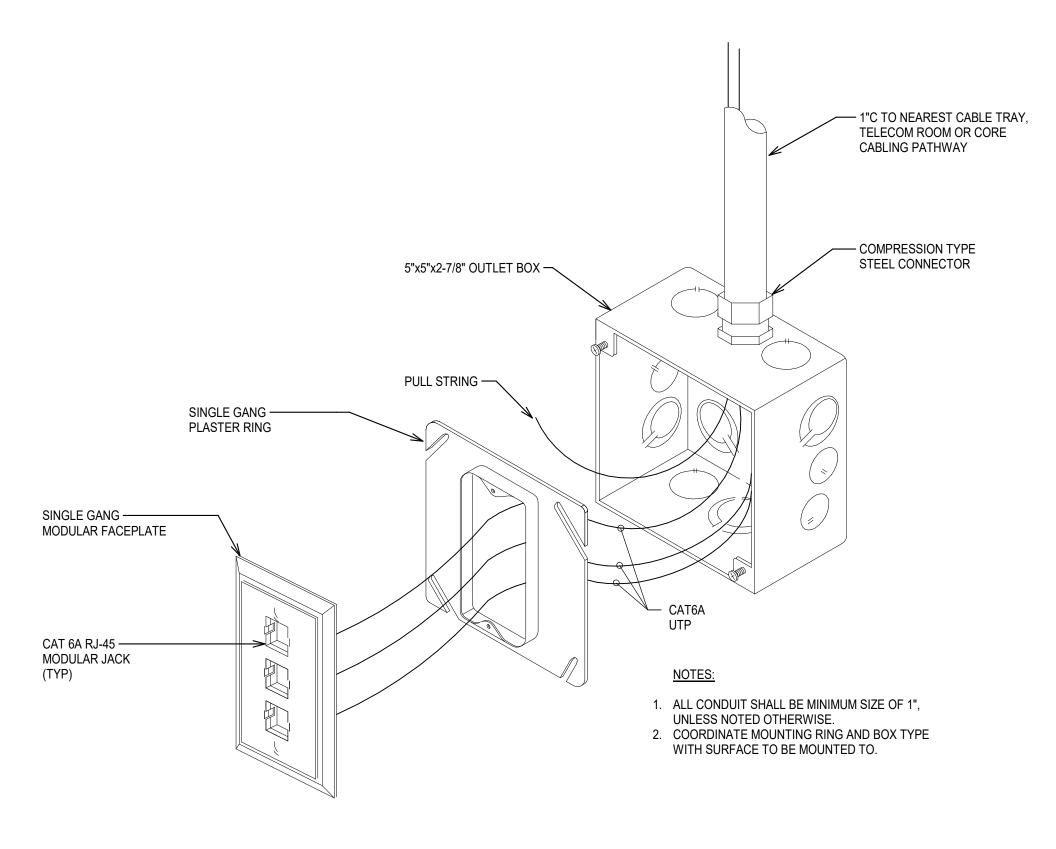






FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
 TELECOMMUNICATIONS PATHWAY SHALL ROUTE FROM OUTLET BOX TO ROOM 200A, THEN TRANSITION TO 4" CONDUIT FROM ROOM 200A TO EXISTING TELECOM ROOM 102. STUB CONDUIT INTO ROOM 200A AND UTILIZE J-HOOKS TO CONSOLIDATE CABLING PRIOR TO ROUTING THROUGH 4" CONDUIT.





TYPICAL 3-PORT OUTLET DETAIL N.T.S.

