PMS MORIARITY EARLY CHILDCARE CENTER - KITCHEN REMODEL

CONTACTS:

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PRESBYTERIAN MEDICAL SERVICES
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DRAWING INDEX:

LOCATION:

CODE ANALYSIS

APPLICABLE CODES
2021 NEW MEXICO COMMERCIAL BUILDING CODE
2021 NEW MEXICO EXISTING BUILDING CODE
2020 NEW MEXICO ELECTRICAL CODE
2021 NEW MEXICO MECHANICAL CODE
2021 NEW MEXICO PLUMBING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL FIRE CODE
2017 ICC/ANSI 117.1
2020 NATIONAL ELECTRIC CODE
2021 UNIFORM PLUMBING CODE
2021 UNIFORM MECHANICAL CODE
2015 NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS
2015 NFPA: LIFE SAFETY CODE
2021 NM ENERGY CONSERVATION CODE
2021 IECC

PROJECT DESCRIPTION
SECTION 404 IEBC. ALTERATION LEVEL 2. RENOVATION OF THE FACILITY'S KITCHEN; SCOPE INCLUDES DEMO OF 1 WALL, BUILT IN CASEWORK, MINI SPLIT, REPLACEMENT OF APPLICANCES WATER HEATER

PROJECT ADDRESS
706 UNION AVE
MORIARTY, NM 87035

PROJECT AREA
TOTAL EXISTING BUILDING: 1,464 GSF
AREA OF SCOPE APPROXIMATELY: 232 SF

CONSTRUCTION TYPE: VB, NON-SPRINKLED

USE & OCCUPANCY CLASSIFICATION (IBC SECTION 302.1)
E

MEANS OF EGRESS
TRAVEL DISTANCE DOES NOT EXCEED MAXIMUM ALLOWABLE TRAVEL DISTANCE OF 200' (1017)
REQUIRED NUMBER OF EXITS (1006.3.1) = 2; PROVIDED = 3

PLUMBING FIXTURES (IBC CHAPTER 29)
PLUMING FIXTURE COUNTS REMAIN THE SAME. OCCUPANCY HAS NOT INCREASED 20%. IEBC 810.

FIRE EXTINGUISHERS
MINIMUM RATED SINGLE EXTINGUISHER:2A-10BC.
MAXIMUM TRAVEL DISTANCE BETWEEN FIRE EXTINGUISHERS: 75 FEET.
REQUIRED EXTINGUISHER IN COMMERCIAL KITCHEN 906.1.2. = 1
REQUIRED PER FLOOR 1,464/3,000 SF = 1
PROVIDED: 1

FIRE PROTECTION
EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DRAWINGS TO FIRE MARSHAL FOR ANY MODIFICATIONS OT THE FIRE ALARM SYSTEM.

1 code plan
1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOL LEGEND

180 / 20 / 34 — MAXIMUM OCCUPANT LOAD FOR DOOR (SECTION 1005.1); ACTUAL OCCUPANT LOAD FOR DOOR; DOOR WIDTH REQUIRED/ DOOR WIDTH PROVIDED (IN INCHES)

2 — # OCCUPANTS

NO WORK THIS AREA

PATH/DIRECTION OF TRAVEL

FIRE EXTINGUISHER CABINET

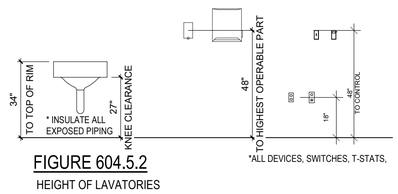

FIGURE 604.5.2
HEIGHT OF LAVATORIES

2 MOUNTING HEIGHTS AND CLEARANCE REQUIREMENTS
3/8" = 1'-0"

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scout
ARCHITECTURE + DESIGN

ARCHITECT/ ENGINEER

STATE OF NEW MEXICO
SHANNON VANDUSEN
NO. 005140
3.23.26
REGISTERED ARCHITECT

PMS MORIARITY HEAD START
KITCHEN REMODEL
706 UNION AVE
MORIARTY, NM 87035

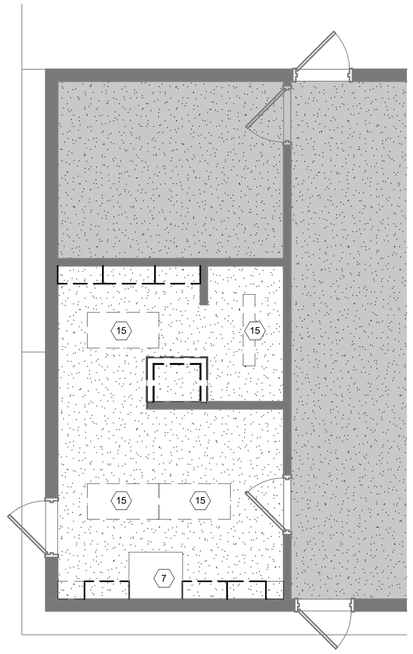
100% PERMIT DRAWINGS

REVISION	DATE

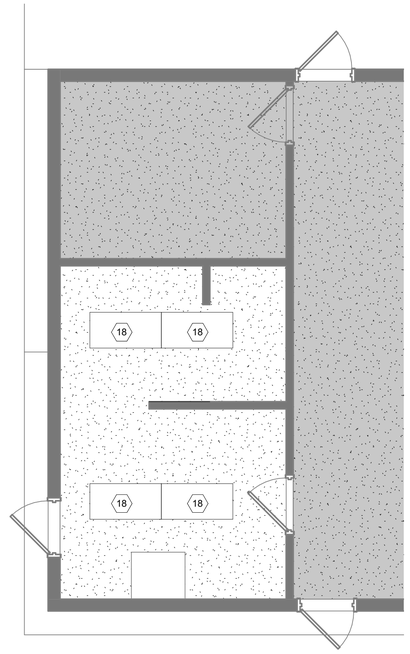
DATE	3/23/26
PROJECT NO	2525

COVER SHEET, CODE ANALYSIS, LIFE SAFETY PLAN

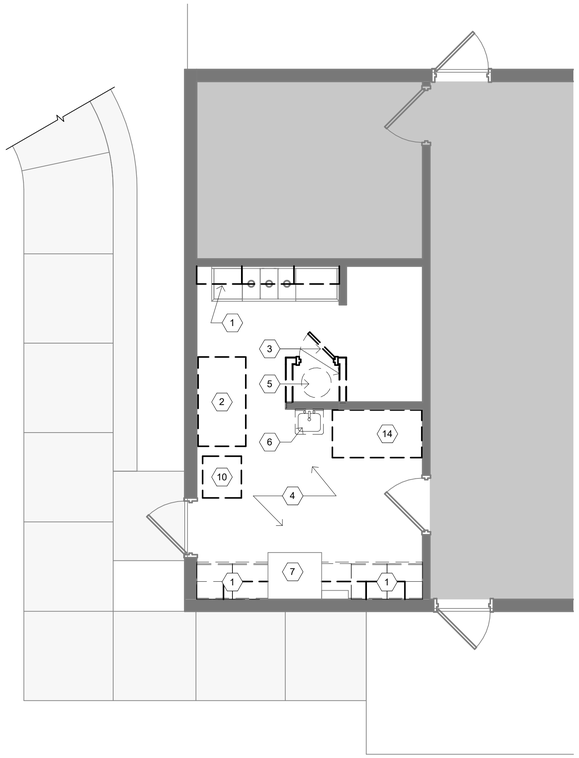
SHEET NO.
G001



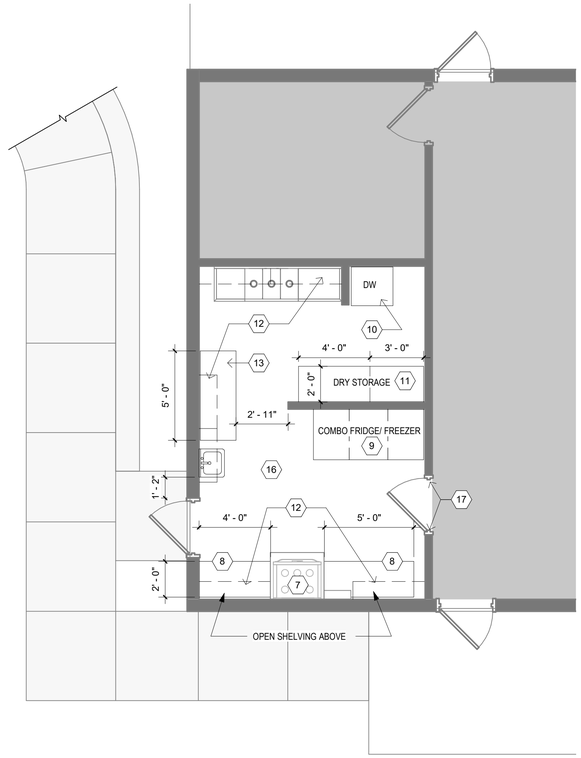
C3 DEMOLITION RCP
1/4" = 1'-0"



C4 REFLECTED CEILING PLAN
1/4" = 1'-0"



A3 DEMOLITION FLOOR PLAN
1/4" = 1'-0"



A4 FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS ARE FACE OF STUD UNLESS OTHERWISE NOTED.
B. FIELD VERIFY ALL DIMENSIONS.
C. DO NOT SCALE DRAWINGS, IF DIMENSIONS ARE IN QUESTION, REQUEST CLARIFICATION FROM
D. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE PAINTED.

KEYED NOTES

1. DEMO EXISTING COUNTER AND CASEWORK
2. EXISTING EQUIPMENT TO BE REMOVED BY OWNER
3. DEMO EXISTING WALL AND DOOR
4. DEMO EXISTING FLOORING AND BASE
5. DEMO EXISTING WATER HEATER; RE: PLUMBING
6. EXISTING WALL HUNG SINK TO BE REMOVED; RE: PLUMBING
7. EXISTING OVEN/RANGE, HOOD AND ANSLE SYSTEM TO REMAIN
8. STAINLESS STEEL WORK TABLE WITH UNDER COUNTER SHELF BY OWNER
9. NEW 3 SECTION DUAL REFRIGERATOR AND FREEZER, BASIS OF DESIGN: Beverage-Air HBRF72HC-1-B Hydrocarbon Series
10. EXISTING UNDER COUNTER DISHWASHER TO BE RELOCATED PER PLAN
11. OPEN WIRE SHELVING - 4 TIER
12. STAINLESS STEEL SHELVES BY OWNER
13. RELOCATED STAINLESS STEEL WORK TABLE
14. EXISTING STAINLESS STEEL WORK TABLE TO BE RELOCATED
15. DEMO EXISTING LIGHTING; PATCH CEILING AS NEEDED FOR NEW LAYOUT
16. NEW FLOORING: 6 X 6 QUARRY TRACTION MATTE, SEAL EXISTING WOOD SUB FLOOR TO PREVENT MOISTURE ABSORBING INTO THE GROUT; USE URETHANE GROUT OR SYNTHETIC PRE-MIXED GROUT LIKE FUSION PRO
17. METAL SLOPE TRANSITION BETWEEN QUARRY TILE AND EXISTING CARPET: SCHLUTER RENO-RAMP
18. NEW LED SURFACE MOUNTED LIGHT; RE: ELECTRICAL

scout
ARCHITECTURE + DESIGN

ARCHITECT/ ENGINEER

STATE OF NEW MEXICO
SHANNON VANDUSEN
NO. 005140
3.23.26
REGISTERED ARCHITECT

PMS MORIARITY HEAD START KITCHEN REMODEL

706 UNION AVE
MORIARTY, NM 87035

100% PERMIT DRAWINGS

REVISION	DATE

DATE	3/23/26
PROJECT NO	2525

FLOOR PLAN - DEMO + NEW

SHEET NO.
A100

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MECHANICAL/PLUMBING LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK SYMBOLS
	SECTION THROUGH RECTANGULAR SUPPLY DUCT
	SECTION THROUGH RECTANGULAR EXHAUST OR RETURN DUCT
	SECTION THROUGH ROUND DUCT, SUPPLY OR EXHAUST AS NOTED
	CEILING SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE OR EXHAUST REGISTER
	SIDEWALL SUPPLY REGISTER
	FLEXIBLE DUCT, SIZE AS SHOWN
	HAND (VOLUME) DAMPER IN DUCT
	RECTANGULAR-TO-ROUND TRANSITION
F.DPR	VERTICAL FIRE DAMPER IN DUCT AT FIRE PARTITION
F.DPR	HORIZONTAL FIRE DAMPER AT FLOOR PENETRATION
A.D.	ACCESS DOOR
	KEYED NOTE
	CONTROLS SYMBOLS
T	THERMOSTAT
DM	DAMPER MOTOR
SD	IONIZATION SMOKE DETECTOR
FZ	FREEZESTAT
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
DP	DEW POINT SENSOR
SP	STATIC PRESSURE SENSOR
FS	FLOW SWITCH
	PIPING SYMBOLS
	EXISTING PIPING
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER RECIRCULATION
W	SANITARY WASTE
V	SANITARY VENT
GW	GREASE WASTE
D	DRAIN (CONDENSATE OR RELIEF)
ST	STORM DRAIN
ST (OF)	STORM DRAIN OVERFLOW
G	NATURAL GAS
MG	MEDIUM PRESSURE NATURAL GAS
F	FIRE PROTECTION

PIPING SYMBOLS	
	FLOW IN DIRECTION OF ARROW
	PITCH DOWN IN DIRECTION OF ARROW
	VALVE IN RISE OF PIPE (TYPE AS SPECIFIED OR NOTED
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	RISE OR DROP
	BRANCH - TOP CONNECTION
	BRANCH - BOTTOM CONNECTION
	VALVE IN RISE
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CONCENTRIC REDUCER
	FLEXIBLE CONNECTION
	FLEXIBLE CONNECTION
	FLANGE CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	SOLENOID VALVE
	BALANCING VALVE
	UNION
	STRAINER
	PRESSURE GAUGE
	AIR VENT
	T&P RELIEF VALVE
	THERMOMETER
WH	WALL HYDRANT
	DEMOLITION
	BALANCING VALVE WITH PRESSURE PORTS (CIRCUIT SETTER)
	POINT OF DISCONNECTION
	POINT OF RECONNECTION
	WASTE CLEAN-OUT

MECHANICAL/PLUMBING ABBREVIATIONS

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISHED GRADE	LDBT	LEAVING DRY BULB TEMPERATURE
AHJ	AUTHORITY HAVING JURISDICTION	LWBT	LEAVING WET BULB TEMPERATURE
ARCH	ARCHITECT	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MAT	MIXED AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
CLG	CEILING	MCA	MINIMUM CIRCUIT AMPACITY
CO	CARBON MONOXIDE	MISC	MISCELLANEOUS
CO	CLEANOUT	MOCP	MAXIMUM OVERCURRENT PROTECTION
COTG	CLEANOUT TO GRADE	NC	NOISE CRITERIA
CO2	CARBON DIOXIDE	NEC	NATIONAL ELECTRICAL CODE
CU	CONDENSING UNIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CW	COLD WATER	NTS	NOT TO SCALE
DB	DRY BULB	OA	OUTSIDE AIR
DDC	DIRECT DIGITAL CONTROLS	OFD	OVERFLOW DRAIN
DEG F	DEGREES FAHRENHEIT	PPM	PARTS PER MILLION
DWH	DOMESTIC WATER HEATER	PRV	PRESSURE REDUCING VALVE
EDBT	ENTERING DRY BULB TEMPERATURE	PSI	POUNDS PER SQUARE INCH
EF	EXHAUST FAN	RA	RETURN AIR
EL	ELEVATION	RAT	RETURN AIR TEMPERATURE
ETC	ET CETERA	RD	ROOF DRAIN
EWBT	ENTERING WET BULB TEMPERATURE	RH	RELATIVE HUMIDITY
EWT	ENTERING WATER TEMPERATURE	RM	ROOM
FCO	FLOOR CLEAN-OUT	RPM	REVOLUTIONS PER MINUTE
FD	FLOOR DRAIN	RTU	ROOF TOP UNIT
FDC	FIRE DEPARTMENT CONNECTION	SA	SUPPLY AIR
FH	FIRE HYDRANT	SD	STORM DRAIN
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FS	FLOOR SINK	SS	SANITARY SEWER
GAS	NATURAL GAS	SUB	SUBSTITUTE
GC	GENERAL CONTRACTOR	TSTAT	THERMOSTAT
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GT	GREASE TRAP	UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIB	UR	URINAL
HD	HEAVY DUTY	V	VENT
HT	HEIGHT	W/	WITH
HW	HOT WATER	W/O	WITHOUT
HWR	HOT WATER RETURN	WB	WET BULB
HWS	HOT WATER SUPPLY	WC	WATER CLOSET
IBC	INTERNATIONAL BUILDING CODE	WCO	WALL CLEAN-OUT
J-BOX	JUNCTION BOX	WHA	WATER HAMMER ARRESTOR

PIPING MATERIALS

DOMESTIC HOT AND COLD WATER PIPING:
TYPE K HARD COPPER TUBE, WROUGHT COPPER FITTINGS, NO LEAD SOLDER. BRONZE BALL VALVES

PEX TUBING, METAL INSERT AND COPPER CLAMP RING OR ASSE 1061 PUSH-FIT FITTINGS. BRONZE BALL VALVES.

SOIL, WASTE, AND VENT PIPING:
BELOW GRADE -- STANDARD WEIGHT C.I. NO HUB WITH HEAVY DUTY CLAMPS OR SCH 40 PVC WITH SOCKET TYPE FITTINGS
ABOVE GRADE -- STANDARD WEIGHT C.I., NO HUB WITH STANDARD CLAMPS. PVC VENT PIPE IN NON-PLENUM SPACES

NATURAL GAS PIPING:
SCH 40 BLACK STEEL PIPE, MALLEABLE IRON FITTINGS, NON- LUBRICATED BALL VALVES WITH RESILIENT SEATS. AGA AND UL LISTED FOR GAS SERVICE

WATER HAMMER ARRESTORS:
INSTALL WATER HAMMER ARRESTORS AT ALL QUICK-CLOSING VALVES. REFER TO PDI-200 FOR INSTALLATION SIZING AND LOCATIONS. PISTON TYPE ARRESTOR ONLY. SOUIX CHIEF 'HYDRARESTER' OR EQUAL. NO BELLOWS TYPE. PROVIDE WITH ISOLATION VALVE

DUCT MATERIAL

ALL DUCTWORK DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS.

DUCTWORK: G60 GALVANIZED SHEET STEEL; LOCK FORMING QUALITY; CONSTRUCTED TO THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"; +/- 1" W.C. PRESSURE CLASSIFICATION, SEAL CLASS "C"; WITH GALVANIZED STEEL FASTENERS, ANCHORS, ANGLES, STRAPS, ETC.

ROUND DUCT: SPIRAL SEAM, GALVANIZED STEEL. DIE STAMPED OR 5 GORE ELBOWS.

SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIRTIGHT WITH UNITED MCGILL "UNI-GRIP" UL LISTED, WATER BASED, NON-HARDENING, ELASTIC SEALANT OR EQUIVALENT. TAPE NOT ALLOWED.

FLEXIBLE DUCTWORK: UL LISTED AND LABELED, CLASS 1 AIR DUCT. WORKING PRESSURE RATING: POS. 6 ", NEG. 4". FLEXMASTER TYPE 5 OR EQUIVALENT. 5 FEET MAX LENGTH.

GENERAL MECHANICAL AND PLUMBING NOTES:

1. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO PREVENT VOIDING OF WARRANTY. REFER TO EXISTING ROOF WARRANTY WHEN PERFORMING WORK ON ROOF AND FOLLOW WARRANTY REQUIREMENTS.

2. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ALL CEILING PENETRATIONS AND AIR DEVICE LOCATIONS. VERIFY CEILING TYPES BEFORE ORDERING AIR DEVICES. IN HARD CEILINGS AND WALLS, PROVIDE ACCESS PANELS TO FULLY ACCESS AND SERVICE ALL ISOLATION VALVES, FIRE/SMOKE DAMPERS, BALANCING DAMPERS, CONTROL DEVICES, AND ALL OTHER DEVICES THAT REQUIRE MAINTENANCE.

3. PROVIDE SOUND ELBOW FOR ALL CEILING RETURN/TRANSFER AIR GRILLES AS SHOWN IN DETAIL SHEET, UNLESS SHOWN WITH A DIFFERENT DUCT CONFIGURATION. USE NO MORE THAN 5 FT OF FLEXIBLE DUCT LENGTHS. ALL OTHER DUCTWORK SHALL BE RIGID METAL, PER SPECIFICATIONS. SEE DUCT CONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR SPECIFIC AND GENERAL MATERIALS AND REQUIREMENTS. ALL RECTANGULAR SQUARE ELBOWS SHALL BE PROVIDED WITH INTERNAL TURNING VANES. INSTALL FLEXIBLE DUCT CONNECTIONS BETWEEN DUCTWORK AND ANY EQUIPMENT CONTAINING A MOTOR (NO EXCEPTIONS). DUCT DIMENSIONS ARE INSIDE DIMENSIONS. INCREASE SIZE OF DUCTS IF ACOUSTIC LINING IS SCHEDULED OR SPECIFIED. DO NOT INSTALL THERMOSTATS ON EXTERIOR WALLS.

4. ALL MATERIALS ON PLANS ARE NEW, UNLESS INDICATED OTHERWISE. OWNER HAS FIRST RIGHT OF REFUSAL OF ANY AND ALL EQUIPMENT AND MATERIALS. ANY EQUIPMENT OR MATERIAL REQUIRING SERVICE SHALL BE INSTALLED 10FT FROM EDGE OF ROOF OR PARAPETS.

5. SUPPORT ALL PIPING, DUCTS, EQUIPMENT ON ROOF USING FLASHED AND COUNTER FLASHED CURB. LENGTH OF CURB SHALL REACH ALL STRUCTURAL MEMBERS UNDER UNIT PLUS ONE ON EACH SIDE. REPAIR DISTURBED AREAS TO A LIKE CONDITION.

6. DRAWINGS ARE CONSIDERED SCHEMATIC IN NATURE. PROVIDE REQUIRED FITTINGS AND OFFSETS FOR A COMPLETELY OPERATIONAL INSTALLATION. EQUIVALENT DUCT MAY BE SUBSTITUTED IN ACCORDANCE TO SMACNA, PRIOR APPROVAL IS REQUIRED FROM OWNER INSTALLATION. ALL DUCTWORK SHALL BE CONSTRUCTED TO MEET SMACNA STANDARDS.

7. ALL BACKDRAFT DAMPERS SHALL BE COUNTERBALANCED TYPE WITH ADJUSTABLE WEIGHTS AND VINYL SEALS, UNLESS NOTED, SIMILAR TO NAILOR 1370CB. MINIMUM DAMPER PERFORMANCE SHALL INCLUDE A BLADE REACTION AT 0.01" W.G. AND A MAXIMUM LEAKAGE OF 15 CFM/SF AT 1" W.G. MOTORIZED OUTDOOR AIR DAMPERS SHALL BE RATED AT 4 CFM/SF AT 1.0" W.G. WHEN TESTED IN ACCORDANCE TO AMCA. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE AVAILABLE AT THE JOB SITE FOR ALL FIRE AND SMOKE DAMPERS AT THE TIME OF ROUGH-IN INSPECTION.

8. ALL MATERIAL ABOVE THE CEILING WHERE THIS SPACE IS USED A AS A RETURN AIR PLENUM MUST BE NON-COMBUSTIBLE, ALL LOW VOLTAGE/ COMMUNICATIONS CABLE MUST BE PLENUM RATED AND ALL ELECTRICAL WIRING MUST BE IN A PLENUM RATED SHEATH OR CONDUIT.

9. ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE TO PREVENT SAGGING, POCKETING, SWAYING OR DISPLACEMENT BY MEANS OF HANGERS AND SUPPORTS. PIPING IS NOT TO BE SUPPORTED BY EQUIPMENT. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR MATERIALS. PROVIDE MANUAL AIR VENTS AND CAPPED HOSE-END DRAINS WITH ISOLATION VALVE AT PIPING HIGH AND LOW POINTS. WELD PIPE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. WELDERS SHALL BE CERTIFIED FOR TYPE OF WELD BEING PERFORMED. FLUSH OUT PIPING AND REMOVE CONTROL DEVICES BEFORE PERFORMING PRESSURE TEST. DO NOT USE PIPING SYSTEM VALVES TO ISOLATE SECTIONS WHERE TEST PRESSURE EXCEEDS VALVE PRESSURE RATING. PRESSURIZE PIPING AT 100 PSIG. IF LEAKAGE IS OBSERVED OR IF TEMPERATURE COMPENSATED PRESSURE DROP EXCEEDS 1% OF TEST PRESSURE, REPAIR LEAKS AND RETEST. DO NOT USE AIR PRESSURE TO TEST PLASTIC PIPE. PROVIDE SUPPORT UNDER ELBOWS ON PUMP SUCTION AND DISCHARGE LINES.

10. AFTER INSTALLATION OF SYSTEM, PERFORM AN OPERATIONAL TEST IN THE PRESENCE OF THE OWNER, ARCHITECT, OR ENGINEER. THIS TEST WILL CONSIST OF SUCCESSFULLY DEMONSTRATING: APPEARANCE OF INSTALLATION, FUNCTION OF ALL CONTROLS, THE CONTROLS SHALL BE OPERATED IN THE FOLLOWING MODES IN EACH ZONE: OCCUPIED/UNOCCUPIED. IF THE TEST IS NOT SUCCESSFUL IN THE OPINION OF THE ARCHITECT OR ENGINEER, DEFICIENCIES WILL BE REMEDIED AND THE SYSTEM WILL BE RE-TESTED UNTIL THE TEST IS SUCCESSFUL.

11. WHERE NEW MECHANICAL SYSTEMS ARE USED FOR TEMPORARY VENTILATION OR CLIMATE CONTROL, MECHANICAL EQUIPMENT INSTALLER SHALL BE PROVIDE CONSTRUCTION FILTERS, MAINTAIN EQUIPMENT, AND CLEAN, ADJUST AND PUT IN NEW CONDITION BEFORE BUILDING OCCUPANCY. PARTS AND LABOR WARRANTY SHALL NOT BE CONSIDERED TO START UNTIL ACCEPTANCE OF THE SYSTEM BY OWNER.

SUBMITAL REQUIREMENTS

SUBMIT ALL MECHANICAL AND PLUMBING SHOP DRAWING AND PRODUCT DATA AT ONE TIME. SUBMITTAL SHALL BE BOUND AND INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL BE REJECTED.

SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: EQUIPMENT, FIXTURES, INSULATION, DIFFUSERS, PIPING, VALVES, CONTROLS, AND FIRE PROTECTION.

PROJECT SCOPE:

Kitchen remodel in existing building. Installation of new HVAC and plumbing.

PROJECT CODES:

- 2021 UNIFORM PLUMBING CODE
- 2021 UNIFORM MECHANICAL CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE

MINIMUM PIPE INSULATION

BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE 2021, SECTIONS C404.4 AND C404.5

PIPING FROM A WATER HEATER TO THE TERMINATION OF THE HEATED WASTER SUPPLY PIPE SHALL BE INSULATED AS PER THE TABLE BELOW. INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HRxFT ²x°F (R-3 min.). THE FIRST 8' OF BOTH INLET AND OUTLET PIPING OF A WATER HEATER SHALL BE INSULATED WITH 1" OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HRxFT ²x°F.

ALL INSULATION TO HAVE FACTORY APPLIED ASJ COMPLYING WITH ASTM C 1136, TYPE I.

MINIMUM PIPE INSULATION [a]

BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE 2021, SECTION C403.12.3 AND UPC 609.12

FLUID	NOMINAL PIPE DIAMETER	
	<1.5"	>1.5"
HEATING WATER	1.5"	2.0"
DOMESTIC HOT WATER	EQUAL TO PIPE DIAMETER, (1" MINIMUM)	EQUAL TO PIPE DIAMETER
DOMESTIC COLD WATER [b]	0.5"	1.0"
CHILLED WATER, BRINE OR REFRIGERANT	1.0"	1.5"

a. BASED ON INSULATION HAVING A CONDUCTIVITY (k) NOT EXCEEDING 0.27 BTU PER INCH /HRxFT ²x°F (R-3 MIN.)

b. DOMESTIC COLD WATER AND ROOF DRAIN INSULATION BASED ON CONDENSATION CONTROL, NOT IECC REQUIREMENTS.

SEISMIC RESTRAINT FOR WATER HEATERS.

BASED ON: UNIFORM PLUMBING CODE SECTION 507.2

IN SEISMIC DESIGN CATEGORIES C,D,E, AND F, WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A DISTANCE OF NOT LESS THAN 4" SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.

TEMPERATURE AND HOT WATER SYSTEM CONTROLS

BASED ON: IECC 2021 CODE SECTION C404.6

AUTOMATIC-CIRCULATING HOT WATER SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. SYSTEM RETURN PIPING SHALL BE DEDICATED. CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT A DEMAND FOR HOT WATER.

ALL PIPE DISTANCES BETWEEN HOT WATER SUPPLY PIPING AND FIXTURES SHALL COMPLY WITH C404.5.

MINIMUM DUCT INSULATION

BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE 2021, SECTION C403.12

DUCT AND PLENUM INSULATION AND SEALING:

ALL SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPTED SPACES BY A MINIMUM OF R-8 INSULATION.

INSULATION WITHIN DUCTS AND PLENUMS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPMENT INDEX NOT TO EXCEED 50 PER 2021 UMC 602.2 AND 604.1

EXCEPTIONS:
1. WHEN LOCATED WITHIN EQUIPMENT.
2. WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).

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KB design
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ARCHITECT/ ENGINEER

KYLE BEST
NEW MEXICO
Kyle Best
26858
PROFESSIONAL ENGINEER
20 March 2026

MORIARITY HEAD START - KITCHEN REMODEL
MORIARITY, NM

Permit Drawings

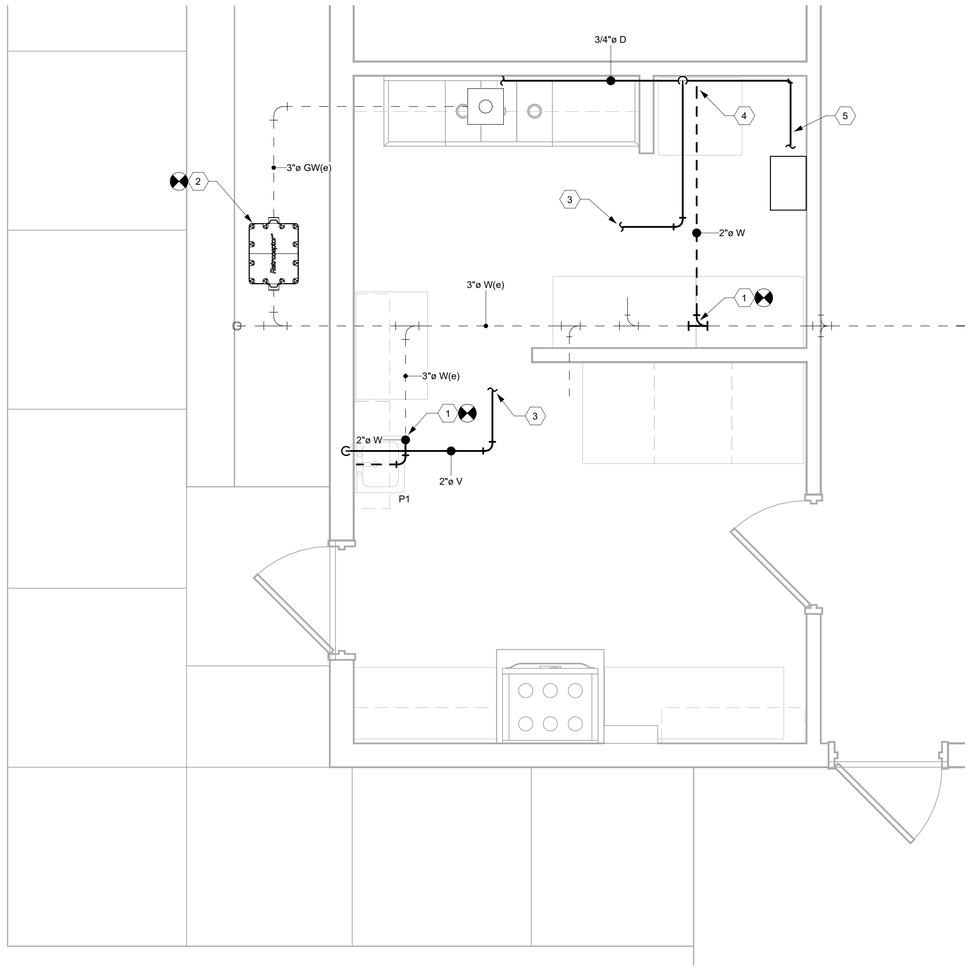
REVISION	DATE

DATE	03-20-26
PROJECT NO	-

MECHANICAL COVER AND NOTES

SHEET NO.

PM-001



1 WASTE AND VENT PLAN
1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO PM-001 FOR GENERAL NOTES AND SYMBOLS.
2. REFER TO P-101 FOR SCHEDULES.
3. SUPPORT ALL PIPES WITH MSS SP-58 COMPONENTS. PROVIDE SADDLES AT ALL INSULATED PIPES.

KEYED NOTES:

#	
1	CONNECT NEW SANITARY WASTE LINE INTO EXISTING BELOW SLAB. FIELD COORDINATE EXACT TIE-IN LOCATION.
2	REPLACE EXISTING GREASE INTERCEPTOR WITH NEW. FIELD COORDINATE EXACT LOCATION WITH EXISTING SIDEWALK AND LANDSCAPING.
3	EXTEND VENT PIPE TO EXISTING VENT AND CONNECT.
4	CONNECT DISCHARGE FROM DISH WASHER TO NEW SANITARY LINE DIRECT PER NM PLUMBING CODE.
5	ROUTE T&P DISCHARGE AND CONDENSATE DRAIN FROM WATER HEATER TO FLOOR SINK INDIRECT.

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER AND MODEL	TYPE	SERVICE	TANK VOLUME (GAL)	FILL PRESSURE (PSI)	APPROX. WEIGHT (LBS.)
XT-1	WESSLES T-5	DIAPHRAGM	IWH-1	2.1	40	5

NOTES:
1. DIAPHRAGM TYPE EXPANSION TANK, PRE-CHARGED. WORKING TEMPERATURE 110°F.
2. SUPPORT TANK INDEPENDENTLY FROM STRUCTURE. DO NOT SUPPORT FROM PIPE ALONE.

GAS DEMAND SCHEDULE

EQUIPMENT	QUANTITY	INPUT (BTUH)	TOTAL
(e)FURNACE	1	147,000	147,000
(e)KITCHEN RANGE	1	75,000	75,000
WATER HEATER	1	160,000	160,000
	NEW TOTAL LOAD		382,000

EXISTING LINE IS 1-1/4". GAS PRESSURE IS 8 IN. W.C. DISTANCE FROM METER TO FURTHEST FIXTURE IS 100 FT.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	ADA	MANUFACTURER AND MODEL	FAUCET MANUFACTURER AND MODEL NUMBER	ACCESSORIES	CONNECTIONS				REMARKS	FLOW RATE
						CW	HW	WASTE	VENT		
P1	HAND SINK	YES	ADVANCE TABCO 7-PS-EC-SP	INTEGRAL WITH BASIN	DRAIN PLUG, P-TRAP, ANGLE STOPS	1/2"	1/2"	2"	1-1/2"	STAINLESS STEEL HAND WASH SINK WITH GOOSE NECK FAUCET AND SIDE SPLASH	2.2 GPM
FS	FLOOR SINK	-	ZURN Z1902	-	TRAP-SEAL (JR SMITH 2692), INTERIOR DOME STRAINER, HALF GRATE.	-	-	3"	2"	FLOOR SINK WITH DOME STRAINER AND ELASTOMERIC TRAP SEAL. HALF GRATE FOR INDIRECT WASTE COLLECTION.	-

GREASE INTERCEPTOR SIZING

FIXTURE	QUANTITY	DRAIN FIXTURE UNITS	TOTAL
FLOOR SINK	1	4	4
		TOTAL	4 DFU'S

NEW GREASE INTERCEPTOR:
ZURN Z-1170, RATED AT 25 GPM INLET FLOW, PROVIDE FLOW CONTROL TO LIMIT AT 25 GPM

PER 2021 UPC TABLE 703.2, 2" PIPE NEEDED FOR 4 DFU'S. PROVIDE 3" FOR MARGIN.

PER 2021 UPC TABLE 1014.2.1, 3" PIPE TO A GREASE INTERCEPTOR AT 2 MINUTE FLOW HAS 35 GPM FLOW RATE.

GREASE INTERCEPTOR SCHEDULE

SYMBOL	MANUFACTURER AND MODEL	TYPE	TANK VOLUME	GREASE CAPACITY
GI-1	ZURN Z-1170	HYDRO-MECHANICAL	SIZE 600 (50 LBS)	50 LBS.

NOTES:
1. HYDRO-MECHANICAL TYPE INTERCEPTOR. SIZE 600 TO MATCH EXISTING. 50LB GREASE CAPACITY. PROVIDE FLOW CONTROL, ZURN Z-1108 OR EQUAL TO MATCH RATED FLOW
2. PROVIDE RISER EXTENSION TO MATCH BURY DEPTH AND FINISHED GRADE. PROVIDE PEDESTRIAN RATED COVER.

DOMESTIC CIRCULATOR PUMP SCHEDULE

MARK	SERVICE	GPM	HEAD PRESSURE (FT H20)	MOTOR POWER (WATTS)	ELECTRICAL			WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
					VOLT	MCA	MOCP			
CP-1	DOMESTIC WATER CIRCULATOR	1.5	15	370	120/1ϕ	2.5	15	17	BELL AND GOSSETT NBF-36	SEE NOTE 1

NOTES:
1. MOUNT PUMP ON WALL ADJACENT TO WATER HEATER. PROVIDE WITH T-STAT AND TIMER FOR CONTROL.

WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER AND MODEL	TYPE	SERVICE	EFFICIENCY	TEMPERATURE RISE (°F)	OUTLET TEMP (°F)	TANK VOLUME (GALLON)	VOLT/PH	HEAT INPUT	RECOVERY @ 70°F	APPROX. WEIGHT (LBS.)
IWH-1	AO SMITH THR-160M	NATURAL GAS INSTANTANEOUS	DOMESTIC HOT WATER	94 % AFUE	50	110	-	120-1Ø	160 MBH	4.5 GPM	100

NOTES:
1. PROVIDE SEISMIC BRACING PER UPC 507.2; TEMPERATURE CONTROLS PER IECC 504.3 (SET TO 110°F).
2. PROVIDE FLUE AND COMBUSTION AIR DUCTING PER MFG. PROVIDE CONCENTRIC VENT KIT FOR PENETRATION AT ROOF.

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20 March 2026

MORIARITY HEAD START - KITCHEN REMODEL

MORIARITY, NM

Permit Drawings

REVISION	DATE

DATE 03-20-26
PROJECT NO -

PLUMBING WASTE AND VENT

SHEET NO.
P-101

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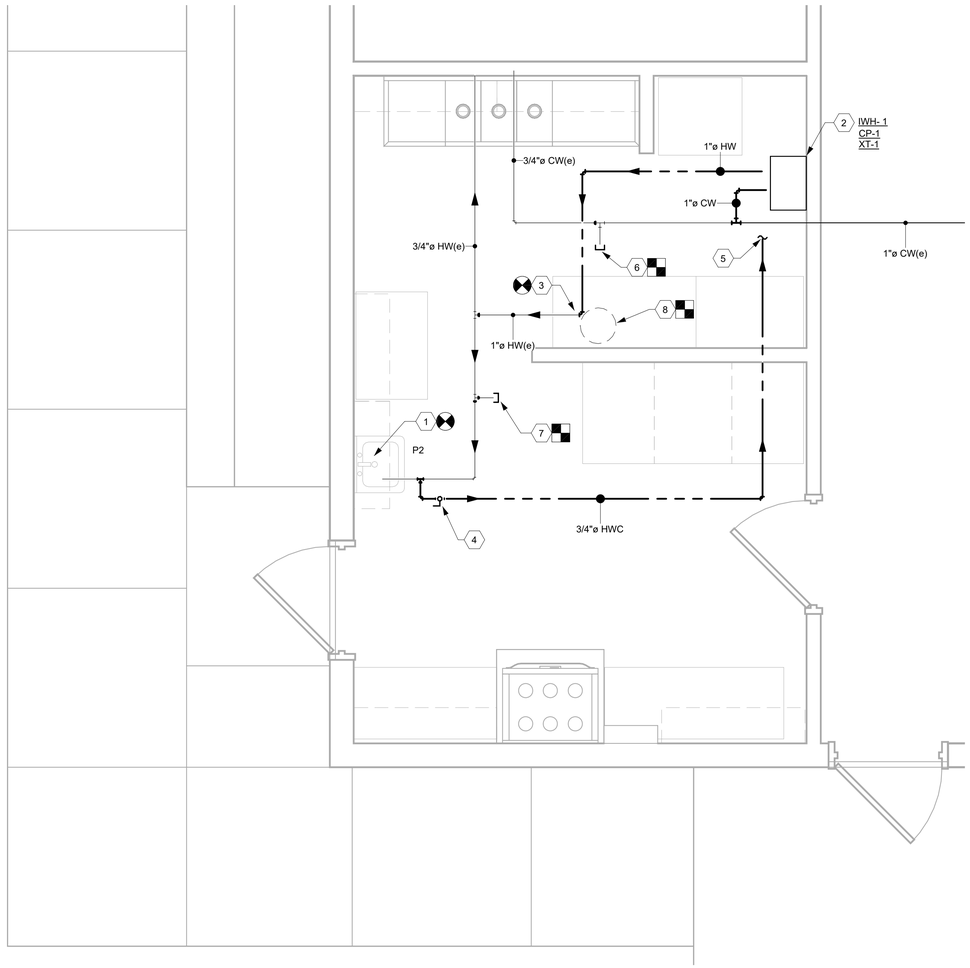

1 WATER PLAN
1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO PM-001 FOR GENERAL NOTES AND SYMBOLS.
2. REFER TO P-101 FOR SCHEDULES.
3. SUPPORT ALL PIPES WITH MSS SP-58 COMPONENTS. PROVIDE SADDLES AT ALL INSULATED PIPES.

KEYED NOTES:

#	
1	CONNECT NEW HAND SINK INTO EXISTING CW AND HW PIPES IN WALL.
2	INSTALL NEW WATER HEATER ON WALL.
3	CONNECT NEW HW LINE INTO EXISTING ABOVE CEILING. FIELD COORDINATE EXACT TIE-IN LOCATION.
4	INSTALL 3/4" BALL VALVE ON HW RECIRC LINE. SET VALVE FOR 0.5 GPM (adj.)
5	ROUTE HW RECIRC LINE BACK TO PUMP AND HEATER.
6	REMOVE EXISTING CW LINE TO PREVIOUS WATER HEATER AND CAP AT MAIN ABOVE CEILING.
7	REMOVE EXISITNG HW LINE TO PREVIOUS HAND-WASH SINK AND CAP ABOVE CEILING.
8	REMOVE EXISTING WATER HEATER COMPLETE. REMOVE CW LINE BACK TO MAIN. HW LINE TO REMAIN FOR RECONNECTION. REMOVE GAS LINE BACK TO MAIN IN ATTIC AND CAP.

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MORIARITY HEAD START - KITCHEN REMODEL

MORIARITY, NM

Permit Drawings

REVISION	DATE

DATE 03-20-26

PROJECT NO -

PLUMBING WATER

SHEET NO.

P-102

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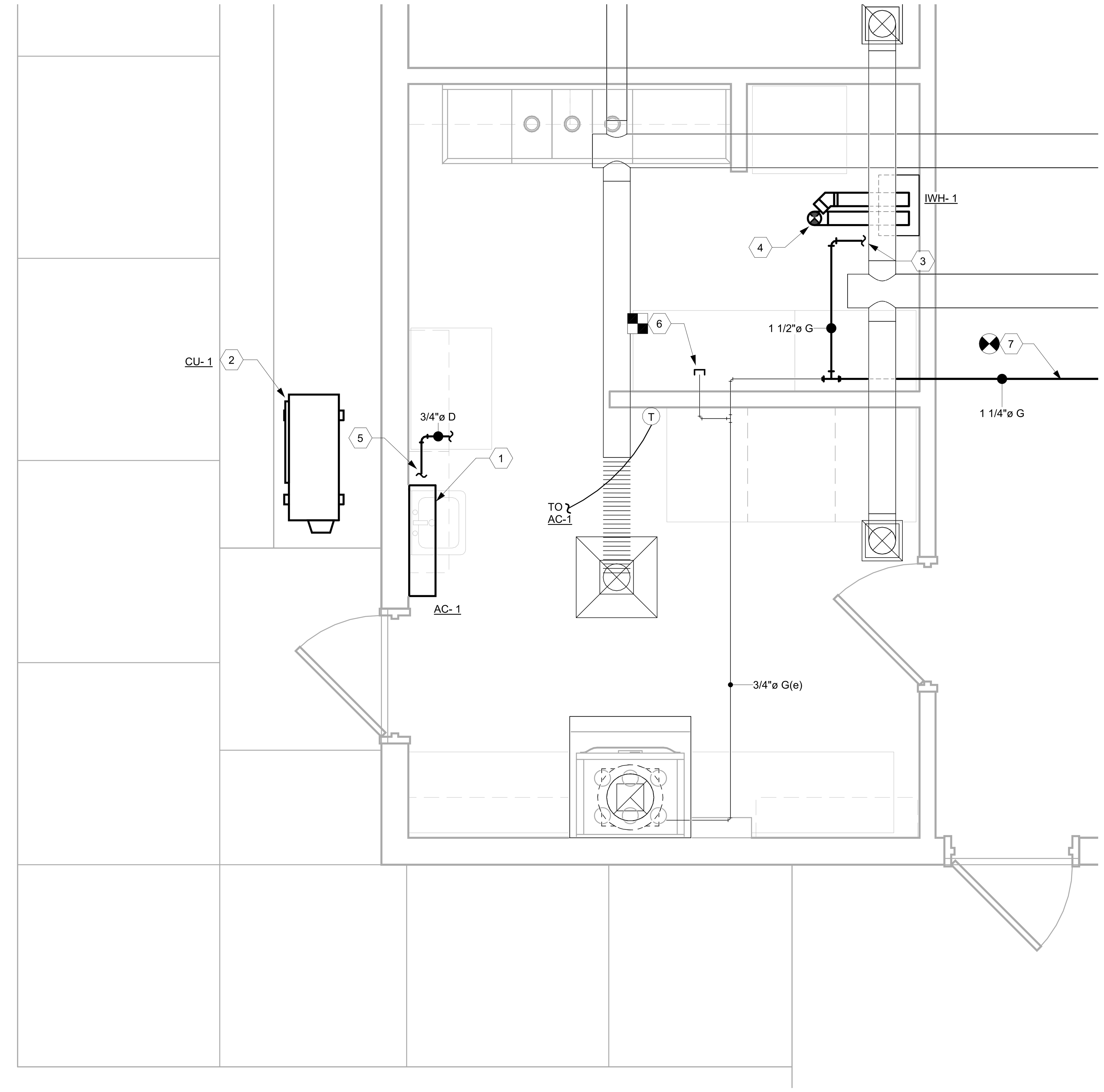

1 MECHANICAL FLOOR PLAN
1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO PM-001 FOR GENERAL NOTES AND SYMBOLS.
2. REFER TO M-101 FOR EQUIPMENT SCHEDULES.

KEYED NOTES:

1 NEW MINI-SPLIT HEAT-PUMP UNIT MOUNTED ON WALL. FIELD COORDINATE EXACT LOCATION WITH CASEWORK AND WALL ACCESSORIES. ROUTE REFRIGERANT AND POWER LINES BETWEEN INDOOR AND OUTDOOR UNITS PER MFG.

2 NEW DX CONDENSING UNIT ON CONCRETE PAD. FIELD COORDINATE EXACT LOCATION WITH EXISTING SIDEWALK AND LANDSCAPING

3 ROUTE NATURAL GAS DOWN TO WATER HEATER. CONNECT WITH UNION, DIRT LEG, ISOLATION VALVE AND FLEX CONNECTION

4 SEALED COMBUSTION FLUE AND AIR DUCT FROM WATER HEATER TO ROOF. PROVIDE CONCENTRIC VENT KIT AT ROOF.

5 ROUTE CONDENSATE TO FLOOR SINK INDIRECT.

6 CAP NATURAL GAS LINE FROM PREVIOUS WATER HEATER ABOVE CEILING.

7 REPLACE EXISTING 1" NATURAL GAS LINE WITH NEW, 1-1/4" GAS LINE FROM NEW WATER HEATER TAP TO EXISTING 1-1/4" LINE AT BUILDING WALL. (APPRX. 40 FT FOR BIDDING PURPOSES.) FIELD COORDINATE EXACT LENGTH AND TIE-IN LOCATION.

VENTILATION SUPPLY:

SPACE IS PROVIDED WITH VENTILATION AIR PER NATURAL VENTILATION, UMC 402.2.

KITCHEN:
SINGLE SIDED OPENING, MAX DISTANCE FROM OPENING IS 2H. CEILING HEIGHT IS 8'. MAX DISTANCE IS 16'.

FLOOR AREA IS 235 SQFT. 4% OF FLOOR AREA FOR OPERABLE OPENINGS, 9.4 SQFT.
1 DOOR, 3'x7' OPENING, FOR 21 SQFT. OF EXTERIOR OPENING.

HEAT PUMP FAN COIL SCHEDULE

MARK	LOCATION	CFM	COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL			FILTER	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
			ENT. AIR DB/WB	TOTAL MBH	ENT. AIR DB	MBH OUT @ ALT.	VOLT / PH	MCA	MOCP				
AC-1	KITCHEN	328	80/62	12	64	12	BY OUTDOOR UNIT			1" T.A.	50	LENNOX MWHD012	SEE NOTE 1-3

NOTES:
1. FURNISH UNIT WITH HARD-WIRED MANUFACTURER'S 7-DAY PROGRAMMABLE CONTROLLER.
2. PROVIDE CONDENSATE PUMP, RECTOR-SEAL ASPEN OR EQUAL; REFRIGERANT CONCEALMENT CHANNEL.
3. ELECTRICAL FOR INDOOR UNITS SUPPLIED BY OUTDOOR UNIT.

OUTDOOR CONDENSING UNIT SCHEDULE

MARK	O/A SUMMER TEMP °F	SERVICE	TOTAL COOLING CAPACITY (MBH)	COOLING EFF.	TOTAL HEATING CAPACITY (MBH) @10°F	HEATING EFF. (HSPF2)	ELECTRICAL			WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
							VOLT/PH	MCA	MOCP			
CU-1	95	KITCHEN	12	24 SEER2	12	9.0	208/1ϕ	12	20	150	LENNOX MWLD012	SEE NOTE 1-2

NOTES:
1. SIZE AND INSTALL REFRIGERANT PIPING BETWEEN OUTDOOR UNIT AND ASSOCIATED INDOOR UNITS FOLLOWING MANUFACTURER'S REQUIREMENTS.
2. MOUNT UNIT LEVEL ON CONCRETE PAD.

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20 March 2026

MORIARITY HEAD START - KITCHEN REMODEL

MORIARITY, NM

Permit Drawings

REVISION	DATE

DATE 03-20-26
PROJECT NO -

MECHANICAL FLOOR PLAN

SHEET NO.
M-101

ELECTRICAL LEGEND & ABBREVIATIONS

THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT ARE NOT USED ON THE DRAWINGS.

ABBREVIATIONS

1PH	SINGLE-PHASE
1P	SINGLE POLE
1WAY	ONE-WAY
2WAY	TWO-WAY
3PH	THREE-PHASE
3P	THREE POLE
3WAY	THREE-WAY
4WAY	FOUR-WAY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
ATS	AUTO TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DWG	DRAWING
(E)	EXISTING
EF	EXHAUST FAN
ELEC	ELECTRIC
ELEV	ELEVATION
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENGR	ENGINEER
ENGY	ENERGY
ENT	ELECTRICAL NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
(F)	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FDR	FEEDER
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FT	FEET
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES PER SECOND)
J-BOX	JUNCTION BOX
K	THOUSANDS
KVA	KILOVOLT AMPERE
KW	KILOWATT

LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MAN	MANUAL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR
MV	MEDIUM VOLTAGE
(N)	NEW
-N-	NEUTRAL (GROUNDED CONDUCTOR)
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEUT	NEUTRAL (GROUNDED CONDUCTOR)
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OVC	OVERCURRENT
OVRD	OVERRIDE
P	POLE
PA	PUBLIC ADDRESS
PEC	PHOTOELECTRIC CELL
PEND	PENDANT
PH	PHASE
PL	PROPERTY LINE
PNL	PANEL/PANELBOARD
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PWR	POWER
QUAD	QUADRUPLE RECEPTACLE OUTLET
(R)	RELOCATED (FINAL LOCATION)
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECEPT	RECEPTACLE
REQD	REQUIRED
RNC	RIGID NONMETALLIC CONDUIT
SD	SMOKE DETECTOR
SEC	SECONDARY
SOW	SCOPE OF WORK
SPKR	SPEAKER
STOR	STORAGE
STRB	STROBE
STRB/HRN	STROBE/HORN
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMBOL
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UP	UTILITY POLE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VD	VOLTAGE DROP
W	WATT
WP	WEATHERPROOF
WW	WIREWAY
XFMR	TRANSFORMER

GENERAL

- KEYED NOTE CALLOUTS
- MATCHLINE

ONE-LINE SYMBOLS

- TRANSFORMER
- GROUNDING ELECTRODE
- EQUIPMENT (CHASSIS) GROUND
- XXXAT / XXXAF / XP — CIRCUIT BREAKER WITH:
  - TRIP AMPERE RATING
  - FRAME AMPERE RATING
  - NUMBER OF POLES
- XXXXAF / XXXXAS / XXXXAP — DRAW OUT CIRCUIT BREAKER WITH:
  - FRAME SETTING
  - SENSOR SETTING
  - TRIP SETTING
- FUSED SWITCH WITH:
  - SWITCH/FUSES AMPERE RATINGS
- (M) — UTILITY COMPANY APPROVED SOCKET WITH METER INSTALLED
- (G) — GENERATOR
- (NUM) — MOTOR (NUMBER DENOTES HORSEPOWER)
- AUTOMATIC OR MANUAL TRANSFER SWITCH (AS LABELED)

RECEPTACLES

18" ABOVE FINISHED FLOOR (TYP.)

- X-YY — WALL-MOUNTED DUPLEX
  - 'X' DENOTES PANEL NAME
  - 'YY' DENOTES CIRCUIT NUMBER
- CEILING-MOUNTED DUPLEX
- FLOOR-MOUNTED DUPLEX
- WALL-MOUNTED QUADRUPLE
- FLOOR-MOUNTED QUADRUPLE
- WALL-MOUNTED SIMPLEX
- SPECIAL PURPOSE
- 48" AFF — DUPLEX AT SPECIAL HEIGHT, REFER TO ARCHITECTURAL DRAWINGS
- CONCEALED SERVICE FLOOR BOX WITH POWER AND SIGNAL DEVICES AS SHOWN
- P / T — 2X2 DIVIDED RACEWAY POWER POLE, CIRCUITED AS SHOWN, POWER ON ONE SIDE, TELECOM ON THE OTHER SIDE

WALL SWITCHES

48" ABOVE FINISHED FLOOR (TYP.)

- $ — SINGLE POLE
- $2 — DOUBLE POLE
- $3 — THREE-WAY
- $O — WALL SWITCH WITH OCCUPANCY SENSOR
- $D — WALL SWITCH WITH DIMMER
- $a — LOWERCASE LETTER (a) INDICATES SWITCH DESIGNATION

POWER DISTRIBUTION, EQUIPMENT, AND CONNECTIONS

- BRANCH CIRCUIT PANEL BOARD, SURFACE MOUNTED
- XXA — DISCONNECT SWITCH WITH AMPERE RATING
- F / XX/XX — FUSED DISCONNECT SWITCH WITH SWITCH/FUSES AMPERE RATINGS
- MOTOR CONNECTION, HP SIZE AS SHOWN
- MECHANICAL EQUIPMENT CONNECTION AND IDENTIFICATION
- FLEXIBLE CONNECTION TO EQUIPMENT
- TRANSFORMER
- EQUIPMENT ACCESS CLEARANCE
- EXHAUST FAN. WIRE AS SHOWN. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

WIRING

- BELOW GRADE OR BENEATH SLAB
- NEUTRAL, HOT, SWITCH AND GROUND SYMBOLS
- X-YY — HOME RUN X-YY, WHERE:
  - 'X' DENOTES PANEL NAME
  - 'YY' DENOTES CIRCUIT NUMBER
- ELLED UP
- ELLED DOWN
- RACEWAY STUBBED OUT FOR FUTURE CONTINUATION. CAP, MARK, AND RECORD LOCATION.
- WALL-MOUNTED JUNCTION BOX
- FLUSH, FLOOR-MOUNTED JUNCTION BOX
- CEILING-MOUNTED JUNCTION BOX, MOUNT ABOVE ACCESSIBLE CEILINGS UNLESS OTHERWISE NOTED.

SIGNAL OUTLETS

18" ABOVE FINISHED FLOOR (TYP.)

- COMBINATION TELEPHONE/DATA OUTLET
- DATA OUTLET
- TELEPHONE OUTLET
- TV — CLOSED CIRCUIT TELEVISION OUTLET

NOTES:

1. COORDINATE WITH OWNER FOR MORE INFORMATION.

LIGHTING FIXTURES

- EMERGENCY EXIT LIGHT
  - WITH 90 MINUTE BATTERY BACKUP
  - 'X' REFERS TO THE LUMINAIRE TABLE
- COMBINATION EXIT/EMERGENCY LIGHTS
  - MFR: LIGHT FIXTURE INDUSTRIES
  - PART No. COMBORJR2 OR EQUAL
  - COORDINATE WITH OWNER FOR SUBSTITUTIONS
  - SHADING INDICATES ILLUMINATED SIDE
- EXIT SIGN
  - SHADING INDICATES ILLUMINATED SIDE
- PC — PHOTOCELL
- PARKING LIGHT
- LIGHT BAY
- WALLPACK
- T — TIME CLOCK

NOTES:

1. LOWER CASE LETTERS INDICATE SWITCHING. SEE DETAIL FOR EXPLANATION.
2. NUMBERS INDICATE CIRCUIT NUMBERS. SEE PLANS FOR WHICH FIXTURES ARE FED FROM WHICH PANELS.

FIRE ALARM

- F — FIRE ALARM PULL STATION
- FIRE ALARM STROBE
- FIRE ALARM STROBE AND HORN
- FACP — FIRE ALARM CONTROL PANEL
- SD — SMOKE DETECTOR
- HD — HEAT DETECTOR

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIRE ALARM COVERAGE MEETS LIFE SAFETY CODES AND PROVIDING ANY ADDITIONAL DOCUMENTATION TO PULL PERMIT.

EXISTING FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM CONTRACTORS TO PROVIDE A DESIGN BUILD FIRE ALARM DESIGN USING SUGGESTED DEVICE LOCATIONS AS A STARTING POINT ONLY. REQUIRED DESIGN AND CALCULATIONS SHALL BE PERFORMED BY A LICENSED FIRE ALARM CONTRACTOR. COORDINATE THE REQUIREMENTS WITH SUPPLIER OF EXISTING FIRE ALARM SYSTEM.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIRE ALARM COVERAGE MEETS LIFE SAFETY CODES AND PROVIDING ADDITIONAL DOCUMENTATION TO PULL PERMIT.
3. OTHER ALARM DEVICES ALREADY EXIST. DEVICES ARE ONLY SHOWN IN AREAS WHERE WORK IS BEING DONE FOR THIS PROJECT.

ELECTRICAL SPECIFICATIONS

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL FACILITIES IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES, NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND IN A NEAT AND WORKMANLIKE MANNER..

B. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE JOB SITE.

C. ALL UNFORESEEN CONDITIONS THAT MAY AFFECT SCOPE OF WORK/CODE VIOLATIONS, DISCOVERED DURING DEMOLITION/CONSTRUCTION, SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECH/OWNER/ENGINEER.

D. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL THERMOSTATS, CONTROLS AND MAKE REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.

E. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF ALL PERMITS, TESTS AND INSPECTIONS, AND VISIT THE SITE OF WORK PRIOR TO SUBMITTING BID..

F. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.

G. A SET OF MARKED UP PRINTS SHALL BE PREPARED SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND TURNED OVER TO THE OWNER AT THE END OF THE CONSTRUCTION. ALL CHANGES MUST HAVE THE OWNER'S APPROVAL.

H. ANY DISCREPANCIES BETWEEN MATERIAL DESCRIPTION AND CATALOG NUMBER SHALL BE BROUGHT TO THE ARCHITECT'S ENGINEER'S OR OWNER'S ATTENTION IMMEDIATELY.

I. INTERRUPTION OF ANY ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER AT LEAST 7 DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING WITH A COPY TO THE ARCHITECT AND OWNER..

J. 3% VOLTAGE DROP LIMITATION FOR BRANCH CIRCUITS; ALL 20 AMPERE, 120 VOLT BRANCH CIRCUITS (16 AMPERE MAXIMUM LOAD) FEEDER LENGTHS SHALL BE LIMITED AS FOLLOWS:
   #12 AWG-61 LINEAR FT.
   #10 AWG-62 TO 97 LINEAR FT.
   #8 AWG-98 TO 154 LINEAR FT.

K. BRANCH CIRCUITS CAN BE COMBINED IN THE SAME RACEWAY ONLY WHEN EACH BRANCH CIRCUIT HAS A DEDICATED NEUTRAL. REFERENCE NATIONAL ELECTRICAL CODE ARTICLE 210 AND ALL OTHER ASSOCIATED ARTICLES.

L. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. CONDUIT SHALL SERVE AS REDUNDANT GROUND ONLY.

M. MAINTAIN THE SAME COLOR CODING FOR 120/208V-3 PHASE-4W CIRCUITS THROUGHOUT PROJECT.

N. ALL POWER AND LIGHTING CONDUITS SHALL BE ½" EMT CONDUIT MINIMUM, EXCEPT AS NOTED OTHERWISE OR REQUIRED FOR VIBRATION ISOLATION.

O. CONDUITS RUN EXPOSED ON CEILING OR WALLS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, MAKING ALL RUNS STRAIGHT AT PARALLEL OR PERPENDICULAR ANGLES TO BUILDING STRUCTURE.

R. ALL CONDUITS STUBBED ABOVE CEILING SHALL HAVE INSULATED TYPE BUSHINGS ON THE END.

S. LAY-IN CEILINGS AND SUPPORTS SHALL NOT BE UTILIZED AS A MEANS OF SUPPORT FOR ELECTRICAL CONDUIT OR EQUIPMENT.

T. CONTRACTOR SHALL PROVIDE AND INSTALL PULL WIRE IN ANY EMPTY CONDUIT.

U. ANY EXPOSED WIRE MOLD, CONDUITS, BOXES, ECT., SHALL BE PAINTED TO MATCH WALL FINISH THAT IT IS INSTALLED ON.

V. IN ALL CONDUIT WHERE EXISTING CIRCUITS ARE AFFECTED BY THE REMOVAL OF CONDUIT, WIRING, RECEPTACLES OR LIGHTING FIXTURES, THE BLOCKING OUT OF EXISTING OUTLET BOXES, ETC,. AND THE CIRCUIT IS STILL REQUIRED TO FEED OTHER OUTLETS, ETC., WHICH ARE TO REMAIN THE ELECTRICAL CONTRACTOR SHALL RE-FEED AS REQUIRED THE ITEMS OF EQUIPMENT WHICH ARE TO REMAIN IN SERVICE AFTER THE COMPLETION OF THE REMODEL AT NO ADDITIONAL COST TO THE OWNER.

W. IT MAY BECOME NECESSARY FOR THE ELECTRICAL CONTRACTOR TO RELOCATE EXISTING CONDUIT, CHANNELS, AND OTHER SUPPORTS WHICH MAY PARTIALLY CONFLICT WITH SOME OF THE NEW OR RELOCATED RECESSED LIGHTING FIXTURES. CONTRACTOR SHALL RELOCATE THESE ITEMS AT NO ADDITIONAL COST TO THE OWNER.

X. CONTRACTOR SHALL REMOVE EXISTING PANEL BOARD DIRECTORIES FROM PANEL BOARDS AND REPLACE WITH NEW TYPED PANEL SCHEDULE DIRECTORIES FOR ALL AFFECTED PANELS. IF ROOM NUMBERS ARE USED IN TYPED DESCRIPTION, ACTUAL 'ON-DOOR' ROOM NUMBERS MUST BE USED. THESE MAY DIFFER FROM ROOM NUMBERS SHOWN ON THESE PLANS, INCLUDING ON PANEL SCHEDULES, NOTES, DETAILS, ETC.

Y. SIZE CIRCUIT WIRES AS REQUIRED BY THE NEC.

Z. ALL RECEPTACLES AND COVER PLATES SHALL BE WHITE. CONTRACTOR TO REPLACE ANY AND ALL THAT ARE EXISTING AND NOT WHITE OR BROKEN.

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PMS MORIARITY HEAD START KITCHEN REMODEL

MORIARTY, NM

PERMIT DRAWINGS

REVISION	DATE

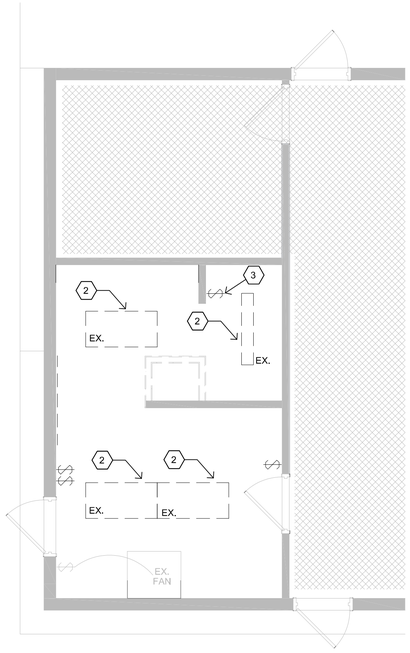
DATE 2/20/25

PROJECT NO -

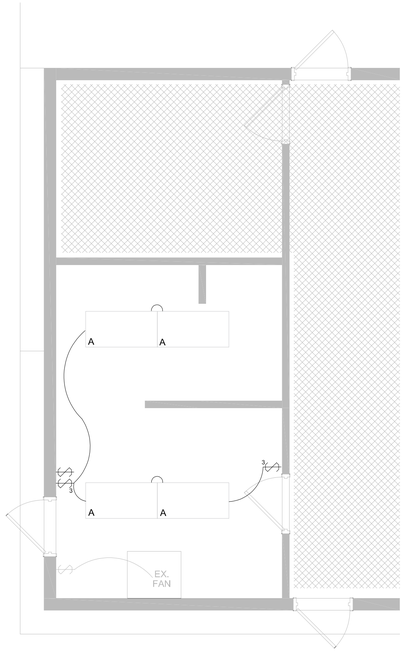
LEGEND & SPECIFICATIONS

SHEET NO.

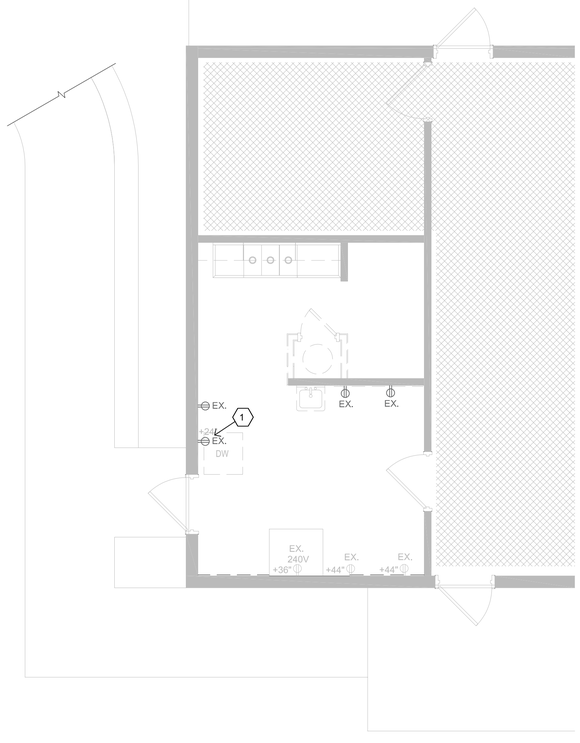
E001



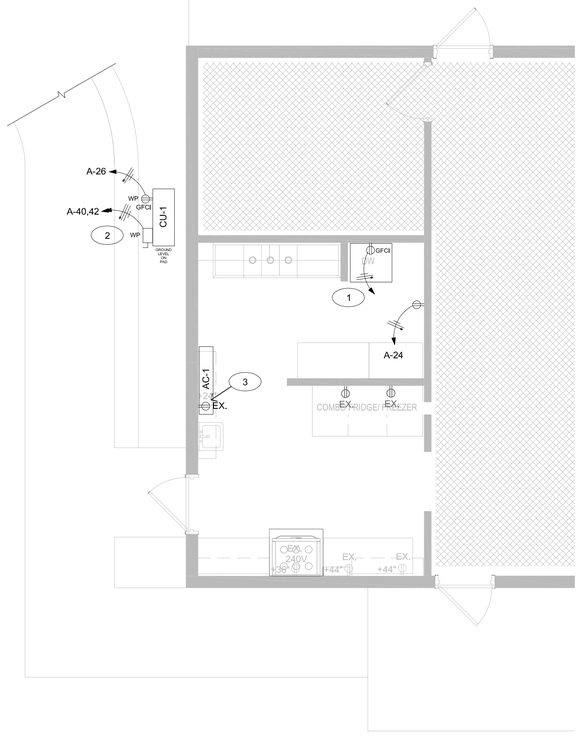
C3 DEMO - LIGHTING FLOOR PLAN
1/4" = 1'-0"



C4 NEW - LIGHTING FLOOR PLAN
1/4" = 1'-0"



A3 DEMO - POWER FLOOR PLAN
1/4" = 1'-0"



A4 NEW - POWER FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL FURNISH ALL REQUIRED PERMITS.

B. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK FOR ONE YEAR FROM COMPLETION OF PROJECT.

C. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, THE CURRENT EDITION OF THE NEC, THE RULES AND REGULATIONS OF THE LOCAL ELECTRICAL COMPANY AUTHORITY, AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE SAME. WHETHER SHOWN ON THE DRAWINGS OR NOT, ALL MODIFICATIONS REQUIRED BY ANY OF THE ABOVE AUTHORITIES SHALL BE MADE BY THE CONTRACTOR AN NO ADDITIONAL COST TO THE OWNER.

D. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE REMOVAL OF ALL ABANDONED CONDUIT, WIRE, BOXES FIXTURE HANGERS, DEVICES ETC. FROM ALL ACCESSIBLE CEILING SPACES IN AREA OF WORK. THE CONTRACTOR SHALL ALSO INCLUDE IN HIS BID THE COST TO CORRECT ANY ELECTRICAL CODE VIOLATIONS, I.E., SUPPORTING EXISTING CONDUITS, ETC, IT IS HIGHLY RECOMMENDED FOR THE CONTRACTOR TO VISIT THE SITE TO UNDERSTAND THE EXTEND OF WORK REQUIRED.

E. OWNER HAS FIRST RIGHT TO SALVAGE.

F. THE BIDDER IS AWARE THAT ALL LIGHTING SYSTEMS, POWER SYSTEMS AND SPECIAL SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE SUCCESSFUL CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THOSE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING, CONTROLS AND SPECIAL SYSTEMS OPERATIONAL AFTER MODIFICATIONS.

G. ALL DEVICE PLATES SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER. LABELS SHALL BE HARD LABELS SECURELY ATTACHED TO DEVICE PLATE. RED/WHITE FOR EMERGENCY POWER, BLACK/WHITE FOR NORMAL POWER.

H. ALL PANEL SCHEDULES SHALL BE LABELED WITH CORRECT CIRCUIT NAME IN PERMANENT MARKINGS.

I. CONTRACTOR IS TO FIELD VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

J. ELECTRICAL PLAN IS SCHEMATIC ONLY. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

K. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUIT BREAKER LOCATIONS ASSOCIATED WITH PROJECT AND UPDATE ELECTRICAL PANEL SCHEDULE AS NECESSARY.

L. LOCATIONS ARE GENERAL FOR ELECTRICAL EQUIPMENT IF NOT SPECIFIED. COORDINATE WITH ARCHITECT AND OWNER FOR FINAL INSTALLATION LOCATIONS.

M. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH SIMON PROPERTY GROUP SPECIFICATIONS.

N. ALL RECEPTACLES WITH IN 6 FEET OF WATER SOURCE NEEDS TO BE A GFCI RECEPTACLE.

DEMO KEYED NOTES

1. REMOVE EXISTING RECEPTACLES, JUNCTION BOXES, CONDUIT AND CONDUCTORS BACK TO ELECTRICAL PANEL (AS NEEDED). CIRCUIT WILL BE RELOCATED TO NEW LOCATION AS IDENTIFIED ON THE NEW WORK FLOOR PLAN THIS SHEET. SEE E601 FOR MORE INFORMATION.

2. REMOVE EXISTING LIGHT FIXTURES, CONDUIT AND CONDUCTORS BACK TO JUNCTION BOX OR ELECTRICAL PANEL (AS NEEDED). CIRCUIT WILL BE REUSED FOR NEW LIGHTING FIXTURES.

3. REMOVE EXISTING LIGHT SWITCH, CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. FUTURE LIGHTING WILL BE CONTROLLED FROM MAIN EXISTING WALL SWITCH WHEN ENTERING THE ROOM. SEE NEW LIGHTING FLOOR PLAN THIS SHEET.

KEYED NOTES

1. NEW LOCATION OF DEDICATED CIRCUIT FOR DISHWASHER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. SEE E-601 FOR ADDITIONAL DETAILS. CONTACT ENGINEER WITH ANY DISCREPANCIES.

2. CONNECT CU-1 TO PANEL A. WIRE SHALL BE (2) #12 THWN/THHN CU & #12G THWN/THHN CU IN 3/4" CONDUIT, INSTALL PER MANUFACTURERS REQUIREMENTS. SEE SHEET E601 FOR MORE INFORMATION.

3. REMOVE AND REPLACE EXISTING RECEPTACLE WITH NEW GFCI RECEPTACLE.

scout
ARCHITECTURE + DESIGN

ARCHITECT/ ENGINEER

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PMS MORIARITY HEAD START KITCHEN REMODEL
MORIARTY, NM

PERMIT DRAWINGS

REVISION	DATE

DATE	3/18/26
PROJECT NO	-

POWER & LIGHTING FLOOR PLAN - DEMO + NEW

SHEET NO.
E101

1

PANEL: A **VOLTAGE: 240/120V - 1Ø - 3 WIRE** **MAINS: 200A** **KAIC: 22000**

SOURCE: MCB **SHORTS: N/A** **FEED: TOP** **MAIN BREAKER: MLO** **MOUNTING: FLUSH**

DESCRIPTION	BREAKER	LOAD (VA)	CCT No.	Load (VA)		CCT No.	LOAD (VA)	BREAKER	DESCRIPTION	
EX. LITES	20/1	1236	1	**1636**		2	400	20/1	EX. RECEPT RR	
EX. LITES	20/1	1736	3		**2336**	4	600	20/1	EX. RECEPT GFCO	
EX. KITCHEN RECEPT	20/1	360	5	**410**		6	50	20/1	EX. FIRE ALARM PANEL	
EX. KITCHEN RECEPT	20/1	830	7		**1430**	8	600	20/1	EX. RECEPT BIG ROOM	
EX. KITCHEN RECEPT	20/1	667	9	**1267**		10	600	20/1	EX. RECEPT BIG ROOM	
EX. DISHWASHER	20/1	1000	11		**2000**	12	1000	20/1	EX. RECEPT KITCHEN	
EX. RANGE	50/2	4000	13	**5000**		14	1000	20/1	EX. RECEPT KITCHEN	
EX. RANGE	50/2	4000	15		**4600**	16	600	20/1	EX. RECEPT N. RM	
EX. HVAC	50/2	4500	17	**5900**		18	1400	20/1	EX. LITES	
EX. HVAC	50/2	4500	19		**6000**	20	1500	20/1	EX. H/W	
EX. RANGE LIGHT	20/1	100	21	**280**		22	180	20/1	EX. RECEPT	
EX. EXTERIOR GFI	20/1	180	23		**360**	24	180	20/1	IHW/CP-1	3
EX. EXHAUST FAN	30/1	360	25	**540**		26	180	20/1	SERVICE RECEPT	3
SPARE	20/1		27		**0**	28		20/1	SPARE	
SPARE	20/1		29	**0**		30			BLANK	
BLANK			31		**0**	32			BLANK	
BLANK			33	**0**		34			BLANK	
BLANK			35		**0**	36			BLANK	
BLANK			37	**0**		38			BLANK	
BLANK			39		**1440**	40	1440	20/2	NEW MINI SPLIT	2
BLANK			41	**1440**		42	1440	20/2	NEW MINI SPLIT	2

TOTAL LOAD (VA): **16,473** **18,166**

CONNECTED LOAD (KVA): **34.6** **DEMAND LOAD (KVA):** **37.8** **GROUND BUS**

CONNECTED (AMPS): **144** **DEMAND (AMPS):** **157**

PANEL SCHEDULE

PANEL SCHEDULE KEY NOTES

1 EXISTING PANEL.

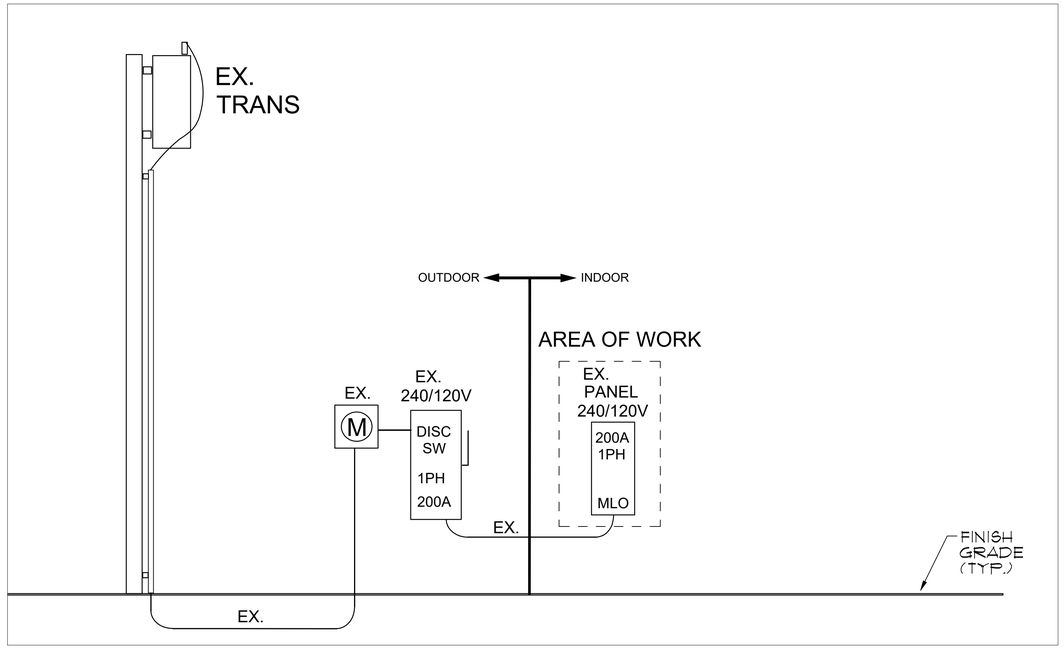
2 PROVIDE AND INSTALL 240V/2-POLE/20A HACR BREAKER. NEW CIRCUIT BREAKER SHALL MATCH EXISTING AIC RATING AND MEET THE MINI SPLIT MANUFACTURERS REQUIREMENTS.

3 USE EXISTING 120V/1-POLE, 20A CIRCUIT BREAKER.

POWER LOAD SUMMARY

DESCRIPTION: EXISTING PANEL "A" LOAD

NEW LOAD	3.2 KVA
EXISTING LOAD	34.6 KVA
TOTAL LOAD:	37.8 KVA
PANEL SIZE	200A, 120/240V, 1PH
PANEL (DEMAND) LOAD	157.0 AMPS
PANEL LOADING -	79% < 100%



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

2021 INTERNALTIONAL ENERGY CONSERVATION CODE COMPLIANCE

Interior Lighting
Building Area Type: FOOD PREPERATION
Allowed LPD (w/ft^2 1.09
Square Footage: 176
Total Watts Allowed: 192
Actual Watts: 144

Exterior Lighting
Tradable Watts Allowed: N/A
Non-Tradable Watts: N/A
Actual Tradable Watts: N/A
Additional 5% Allowance: N/A

This Project is in Compliance with 2021 IECC

The Electrical Power and Lighting Commercial Energy Efficiency Requirement of IECC 2021, Chapter 5 are met by adhering to the Requirements of ASHREA/IESNA 90.1-2021 (2021 IECC, Chapter 4, Section C405)

Power Requirements

Feeder Conductors Have Been Designed for a Maximum Voltage Drop of 2 Percent.

Branch Circuit Conductors Have Been Designed For a Mximum Voltabge Drop of 3 Percent.

Interior Requirements
Exit Signs 5 Watts or less per Sign Are Provided.

PER IECC 2021, TABLE C405.3.2(2), THIS SPACE IS DEEMED FOOD PREP AREA, ALLOWED 1.09W/SQ.FT. THIS SPACE IS IN COMPLIANCE.

LIGHTING SCHEDULE

Symbol	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Number Fixutes	Fixture Watt	wattage (W)
A		LITHONIA	CPANL 2X4 AL06 SWW7 M2 OR EQUIVALENT	CPANL LED	LED	1	4	36	144
							Total Watts	=	144

scout
ARCHITECTURE + DESIGN

ARCHITECT/ ENGINEER

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PMS MORIARITY HEAD START KITCHEN REMODEL

MORIARTY, NM

PERMIT DRAWINGS

REVISION	DATE

DATE 3/18/26

PROJECT NO -

RISER DIAGRAM & SCHEDULES

SHEET NO.

E601