

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL MECHANICAL CODE, THE UNIFORM PLUMBING CODE, THE INTERNATIONAL FUEL GAS CODE, AND THE OREGON STATE ENERGY CODE - COMMERCIAL, AS ADOPTED BY THE STATE OF OREGON.
2. COORDINATE PLUMBING AND MECHANICAL PIPING WITH THE CIVIL DRAWINGS AND SITE UTILITY CONTRACTOR FOR ELEVATION AND LOCATIONS.
3. ALL PLUMBING IS DIAGRAMMATIC AND MAY NOT DETAIL ALL REQUIRED OFFSETS.
4. INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTION. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS NECESSARY FOR COMPLETE INSTALLATION.
5. DOMESTIC HOT AND COLD WATER PIPING: ASTM F876 PEX TUBE, ASTM F877 FITTINGS, CERTIFIED TO NSF 14 AND NSF 61, WITH BRASS INSERT FITTINGS & COPPER CRIMP RINGS. FABRICATE, INSTALL, SUPPORT, & TEST IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE. USE NON-COMBUSTIBLE, SELF-GRIPPING GALVANIZED STEEL CHANNEL SUPPORTS FOR ALL HORIZONTAL RUNS OF PEX PIPING.
6. DOMESTIC HOT AND COLD WATER PIPING: COPPER TUBE ASTM B88, TYPE M FOR ABOVE GROUND PIPING AND TYPE L FOR BELOW GROUND PIPING, AND CERTIFIED TO NSF 14 AND NSF 61. WROUGHT COPPER SOLDER JOINT FITTINGS ASME B16.22.
7. DOMESTIC HOT AND COLD WATER PIPING, UNDERGROUND: PRESSURE RATED POLYPROPYLENE PIPE, ASTM F2389 AND NSF 14, 150 PSIG MINIMUM INTERNAL RATED WORKING PRESSURE, HEAT FUSION WELDED, AQUATHERM GREEN OR EQUAL.
8. DOMESTIC HOT AND COLD WATER PIPING, UNDERGROUND: PVC PIPE, SCHEDULE 40, ASTM D1785. FITTINGS SHALL BE SOLVENT CEMENT JOINTS, PVC ASTM D2466.
9. SANITARY WASTE AND VENT: ABS PIPE, SCHEDULE 40, ASTM F628. FITTINGS SHALL BE SOLVENT CEMENT JOINTS, ABS ASTM D2661 MADE TO ASTM D3311 DWV PATTERNS.
10. SANITARY WASTE AND VENT: PVC PIPE, SCHEDULE 40, ASTM D2665. FITTINGS SHALL BE SOLVENT CEMENT JOINTS, PVC ASTM D2665 MADE TO ASTM D3311 DWV PATTERNS.
11. PIPING INSULATION: PREFORMED GLASS FIBER INSULATION WITH FSK FACING OR FLEXIBLE ELASTOMERIC FOR SHORT RUNS LESS THAN 8 FEET WHERE PREFORMED GLASS FIBER IS NOT PRACTICAL. INSULATION NOT REQUIRED FOR FINAL CONNECTIONS TO FIXTURES, AT PENETRATIONS THROUGH FRAMING MEMBERS, VERTICAL SUPPORT LOCATIONS, AND PIPING SURROUNDED BY BUILDING INSULATION. INSULATION THICKNESS SHALL BE AS FOLLOWS:

PIPE SIZE	LESS THAN 1-1/2"	1-1/2" OR GREATER
HOT WATER	1"	1-1/2"
COLD WATER	1/2"	1"
12. FABRICATE, INSTALL, SUPPORT, AND TEST SUPPLY AND DRAINAGE PIPING IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
13. PROVIDE PIPE SUPPORTS FOR WATER SUPPLY AND SANITARY DRAINAGE PIPING IN ACCORDANCE WITH THE UPC AND AT INTERVALS NOT TO EXCEED THOSE REQUIRED BY TABLE 313.3.
14. SANITARY DRAINAGE PIPING SHALL BE SLOPED AT LEAST 1/4" PER FOOT UNLESS OTHERWISE NOTED.
15. COORDINATE VENTS SO THAT NONE ARE CLOSER THAN 10 FEET TO HVAC OUTSIDE AIR INTAKES. COMBINE FIXTURE VENTS TO REDUCE QUANTITY OF ROOF PENETRATIONS. SIZE VENTS PER THE LATEST UNIFORM PLUMBING CODE.
16. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF SURFACE AND NOT LESS THAN 12" FROM A VERTICAL SURFACE.
17. PROVIDE STOP VALVES AT CONNECTION POINT TO ALL FIXTURES.
18. PROVIDE WATER HAMMER ARRESTERS IN ALL HOT AND COLD WATER BRANCH LINES. SIZE IN ACCORDANCE WITH PDI-WH 201.
19. PROVIDE CODE COMPLIANT AIR GAP FOR ALL INDIRECT DRAINS. THE MINIMUM VERTICAL DISTANCE FOR THE AIR GAP SHALL BE 1" OR TWICE THE INTERNAL DIAMETER OF THE DRAIN PIPE, WHICHEVER IS GREATER, AS MEASURED FROM THE LOWEST POINT OF THE DRAIN PIPE OR FIXTURE OUTLET TO THE FLOOD LEVEL RIM OF THE FLOOR SINK OR OTHER RECEPTOR.

DRAINAGE BASIS OF DESIGN

AREA	DFU	DRAIN, MINIMUM	DRAIN, PROVIDED
1ST FLOOR	35	4"	4"

SUPPLY BASIS OF DESIGN

AREA	WSFU	MAIN SUPPLY	METER
1ST FLOOR	79.5	1 1/2"	2"

DRAWING LIST

P-001	PLUMBING NOTES AND LEGEND
P-101	PLUMBING DRAINAGE PLAN
P-102	PLUMBING SUPPLY PLAN
P-103	PLUMBING SUPPLY PLAN
P-501	PLUMBING DETAILS
P-601	PLUMBING FIXTURE SCHEDULE

ABBREVIATIONS

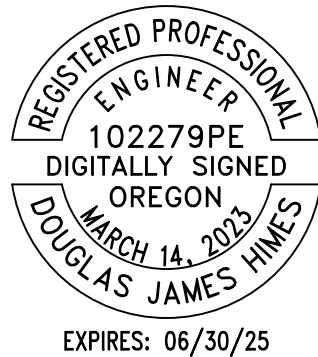
COIW	CLEAN OUT IN WALL
COND	CONDENSATE
COTF	CLEAN OUT TO FLOOR
COTG	CLEAN OUT TO GRADE
CW	COLD WATER
(E)	EXISTING
FD	FLOOR DRAIN
G	NATURAL GAS PIPING
HW	HOT WATER
HWR	HOT WATER RETICULATION
LV	LAVATORY
NG	NATURAL GAS
PW	PROCESS WASTE DRAIN
OFD	OVERFLOW DRAIN
ODL	OVERFLOW DRAIN LEADER
RWL	ROOF DRAIN LEADER
RTU	ROOF TOP UNIT
SW	SANITARY WASTE DRAIN
TP	TRAP PRIMER FEED LINE
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET

LEGEND

— CW —	— CW —	COLD WATER PIPING
— G —	— G —	GAS PIPING
— HW —	— HW —	HOT WATER PIPING
— HWR —	— HWR —	HOT WATER RECIRCULATION PIPING
— SW —	— SW —	SANITARY SEWER PIPING
— PW —	— PW —	PROCESS WASTE PIPING
— V —	— V —	VENT PIPING
— RDL —	— RDL —	ROOF DRAIN PIPING
— ODL —	— ODL —	OVERFLOW DRAIN PIPING
— TP —	— TP —	TRAP PRIMER FEED



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EXPIRES: 06/30/25

APEX ELITE

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3765 23rd STREET
BAKER CITY, OR 97814**

PLUMBING NOTES AND LEGEND

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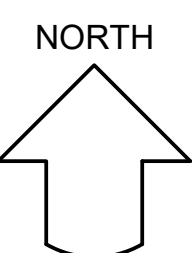
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CHECKED	BW
ENGINEER	MH
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

SHEET

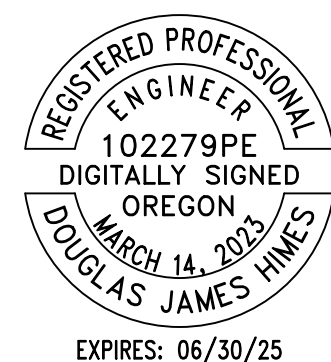
P-001





P-501

H	PLUMBING FIXTURE SCHEDULE											
	SYMBOL	MANUFACTURER	MODEL	TYPE	COLOR	MOUNTING	CW	HW	W	V	ACCESSORIES/REMARKS	
	CO2	SIOUX CHIEF	834	FLOOR CLEANOUT	-	FLOOR	-	-	-	-	ADJUSTABLE FLOOR CLEANOUT, 6 1/2"Ø TOP, ABS BODY, NICKEL BRONZE OR STAINLESS STEEL COVER. SIZE AS SHOWN ON PLANS.	
	CO3	SIOUX CHIEF	873	WALL CLEANOUT	-	WALL	-	-	-	-	CLEANOUT PLUG WITH STAINLESS STEEL COVER. SIZE AS SHOWN ON PLANS	
	CP1	TACO	006E3	HOT WATER CIRCULATOR	-	-	-	-	-	-	115V/1Ø, 1" UNION CONNECTIONS, SMARTPLUG HOT WATER CONTROL. PROVIDE PUMP CONTROLS IN ACCORDANCE WITH OEESC 7.4.4.4	
	FD1	SIOUX CHIEF	842	FLOOR DRAIN	NICKEL BRONZE	FLOOR	-	-	-	-	5 1/2" ROUND STRAINER, TRAP PRIMER CONNECTION. SIZE AS SHOWN ON PLANS.	
	HB1	WOODFORD	B65	FREEZE PROOF HOSE BIB	-	WALL	3/4"	-	-	-	FREEZE PROOF, RECESSED LOCKABLE WALL BOX, VACUUME BREAKER	
	HB2	WOODFORD	24	HOSE BIB	-	WALL	3/4"	-	-	-	ANTI-SIPHON, VACUUM BREAKER	
	LV1	KOHLER	K-2861	LAVATORY	WHITE	WALL	3/8"	3/8"	1 1/4"	1 1/4"	4" CENTERS FAUCET HOLES FAUCET: KOHLER K-15583 WITH 0.5 GPM VANDAL RESISTANT AERATOR, POP-UP DRAIN, MOUNTING BRACKET AND INTEGRAL CHECK VALVES, 3/8" INLETS. THERMOSTATIC MIXING VALVE: KOHLER K-99799	
	PRV1	WATTS	LFN55B 1/4IN	PRESSURE REDUCING VALVE	BRASS	IN-LINE	1 1/2"	-	--	-	PRESSURE REDUCING VALVE, BRONZE CAGE WITH INTEGRAL STAINLESS STEEL STRAINER, SET TO REDUCE SUPPLY PRESSURE TO 75 PSIG OR LESS, LEAD FREE, ASSE 1003	
G	SK1	KOHLER	K-3369-4-NA	DOUBLE COMPARTMENT SINK	STAINLESS STEEL	TOP MOUNT	1/2"	1/2"	2"	1-1/2"	KITCHEN SINK, (3) HOLE LAYOUT, FAUCET: KOHLER 596-CP DECK MOUNTED FAUCET WITH PULL DOWN SPRAY, 3/8" INLETS. DRAIN: KOHLER K-8799-CP SINK DRAIN AND STRAINER.	
	SK2	ADVANCE TABCO	7-PS-54	ONE COMPARTMENT SINK	STAINLESS STEEL	WALL MOUNT	1/2"	1/2"	2"	1-1/2"	14" WIDE X 10" FRONT-TO-BACK X 5" DEEP BOWL, 20 GAUGE 304 STAINLESS STEEL, WITH SPLASH MOUNTED GOOSENECK FAUCET, PTRAP, WALL BRACKET, NSF, cCSAAus	
	TK1	AMTROL	ST-12	EXPANSION TANK	-	-	1 1/4"	-	-	-	THERMXTROL, DIAPHRAGM EXPANSION TANK, 4.4 GAL, 150 PSI MAX WORKING PRESSURE, NSF 61	
	TP1	MIFAB	M2-500-NPB	TRAP PRIMER	-	INLINE	1/2	-	-	-	SERVES UP TO THREE DRAIN TRAPS, WITH ADJUSTABLE DISTRIBUTION UNIT AND AIR GAP FITTING,	
	UR1	KOHLER	K-5016-ET	URINAL	WHITE	WALL	3/4"	-	2"	1 1/2"	MOUNT URINAL AT ADA HEIGHT, WALL HANGER. FLUSH VALVE: KOHLER K-7537-CP, 0.5 GPF, TOUCHLESS.	
	WC1	KOHLER	K-3999-0	ADA WATER CLOSET	WHITE	FLOOR	3/8"	-	3"	2"	TWO PIECE, 1.28 GPF, FLUSH TANK WATER CLOSET. SEAT: KOHLER K-4008-0	
	WC2	KOHLER	K-3998-0	WATER CLOSET	WHITE	FLOOR	3/8"	-	3"	2"	TWO PIECE, 1.28 GPF, FLUSH TANK WATER CLOSET, SEAT: KOHLER K-4008-0	
	WH1	RHEEM	XE50T06CG45UO	ELECTRIC TANK	-	FLOOR	3/4"	3/4"	-	-	50 GAL TANK, 240/1, (2) 4500 WATT ELEMENTS NON-SIMULTANEOUS WIRED, 21 GPH @ 90-F RISE, BRASS DRAIN VALVE, T&P RELIEF VALVE, FACTORY INSTALLED DIELECTRIC FITTINGS, DEMAND RESPONSE READY. INSTALL ON INCOMPRESSIBLE INSULATED SURFACE, MINIMUM R-10.	
	F											
E												
D												
C												
B												
A												

	
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APEX ELITE LINE ACADEMY 3765 23rd STREET BAKER CITY, OR 97814	
PLUMBING FIXTURE SCHEDULE	

REV	DATE	DESCRIPTION	DRW	CHK
A	05/27/25	FOR REVIEW	IB	BW

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL MECHANICAL CODE, THE UNIFORM PLUMBING CODE, AND THE OREGON ENERGY EFFICIENCY SPECIALTY CODE, AS ADOPTED BY THE STATE OF OREGON.
2. COORDINATE ALL ASPECTS OF THE WORK WITH OTHER TRADES AND CONTRACTORS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND ACCESSORIES, WHETHER SHOWN OR NOT, REQUIRED OR NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM COMPLYING WITH ALL REQUIRED CODES AND STANDARDS.
3. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH THESE SPECIFICATIONS, DRAWINGS AND THE HVAC EQUIPMENT SCHEDULE. PROVIDE SUBMITTALS FOR APPROVAL FOR ALL EQUIPMENT ON THE EQUIPMENT SCHEDULE PRIOR TO PROCUREMENT AND INFORMATIONAL SUBMITTALS FOR ALL OTHER MATERIALS. CONTRACTOR MAY PROPOSE SUBSTITUTIONS AND PROVIDE SUBMITTALS FOR APPROVAL.
4. PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT SHOWN ON THE MECHANICAL EQUIPMENT SCHEDULE.
5. MATERIAL AND EQUIPMENT SHALL BE THE CURRENT PRODUCT OR MODEL LINE OF THE MANUFACTURER AND, UNLESS OTHERWISE INDICATED, NEW AND UNUSED AT THE TIME OF INSTALLATION. PROVIDE MATERIALS AND EQUIPMENT COMPLETE WITH ALL ACCESSORIES, TRIM, FINISH, SAFETY GUARDS AND OTHER DEVICES AND DETAILS NEEDED FOR A COMPLETE INSTALLATION AND FOR THE INTENDED USE AND EFFECT. WHERE MULTIPLE QUANTITIES OF A SINGLE PRODUCT, OR QUANTITIES OF SIMILAR OR RELATED PRODUCTS ARE REQUIRED, SUCH PRODUCTS SHALL BE OF A SINGLE MANUFACTURER TO THE EXTENT POSSIBLE.
6. COORDINATE MECHANICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. WHERE DIMENSIONAL DISCREPANCIES EXIST, ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER MECHANICAL DRAWINGS. CONFORM TO ARRANGEMENTS INDICATED BY THE CONTRACT DOCUMENTS FOLLOWING AS CLOSELY AS BUILDING CONSTRUCTION WILL PERMIT.
7. THE MECHANICAL DRAWINGS DO NOT INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED. ARRANGE WORK ACCORDINGLY AND PROVIDE OFFSETS, FITTINGS AND ACCESSORIES REQUIRED. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
8. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) IN ACCORDANCE WITH ASSOCIATED AIR BALANCE COUNCIL (AABC), NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR OTHER APPROVED METHOD FOR ALL HVAC EQUIPMENT AND SYSTEMS. PERFORM BALANCING TO REDUCE FAN SPEEDS AND MINIMIZE THROTTLING LOSSES.
9. MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL HVAC FRESH AIR INTAKES AND EXHAUST FANS, COMBUSTION VENTS, AND PLUMBING VENTS.
10. CONDENSATE DRAIN LINES FOR INDOOR FAN COIL UNITS SHALL BE ROUTED TO AND CONNECTED DIRECTLY TO NEAREST LAVATORY TAIL PIECE OR BATHTUB OVERFLOW INLET. CONNECTION SHALL BE WYE-TYPE AND ACCESSIBLE. THE CONNECTION SHALL BE LOCATED IN THE AREA CONTROLLED BY THE SAME PERSON CONTROLLING THE FAN COIL UNIT. IF NOT POSSIBLE TO CONNECT TO A LAVATORY TAIL PIECE OR BATHTUB OVERFLOW, ROUTE OUTSIDE THROUGH A WEATHER TIGHT PENETRATION TO DISCHARGE IN AN APPROVED LOCATION WHICH IS NOT OVER A PUBLIC TRAVEL PATH.
11. CONDENSATE DRAIN LINES SHALL BE MADE OF CORROSION RESISTANT MATERIAL AND SHALL BE NO SMALLER THAN THE OUTLET SIZE OF THE FAN COIL UNIT, COOLING COIL, OR APPLIANCE. MINIMUM SLOPE OF CONDENSATE DRAIN LINES SHALL BE 1/8" PER FOOT.

HVAC DESIGN CRITERIA

1. HEATING - ASHRAE 99.6%
-0.4°F DRY BULB
2. COOLING - ASHRAE 1%
89.8°F DRY BULB
62.3°F WET BULB
3. HEATING - EXTREME, 10-YEAR RETURN
-17.3°F DRY BULB
4. SITE ELEVATION
3,450 FT

SEQUENCE OF OPERATIONS

1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS FOR EACH SYSTEM CAPABLE OF CONTROLLING SYSTEM OPERATION PER THIS SEQUENCE OF OPERATION. PROGRAM OCCUPIED/UNOCCUPIED MODE PER OWNERS INSTRUCTIONS. THERMOSTATS SHALL HAVE AUXILIARY OUTPUT FOR ACTUATION OF OUTDOOR AIR DAMPERS BASED ON OCCUPANCY MODE.
2. SPLIT SYSTEM AIR HANDLING UNITS AND HEAT PUMPS
OCCUPIED MODE: SUPPLY FAN OPERATES CONTINUOUSLY. HEAT PUMPS OPERATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT HEATING AND COOLING SET POINT TEMPERATURES. OUTSIDE AIR DAMPER IS OPEN.
UNOCCUPIED MODE: SUPPLY FAN CYCLES WITH THE LOAD. HEATING PUMPS OPERATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT HEATING AND COOLING SETBACK TEMPERATURES. OUTSIDE AIR DAMPER IS CLOSED.
3. DUCTLESS MINI-SPLIT SYSTEM
OCCUPIED MODE: SUPPLY FAN CYCLES WITH THE LOAD. CONDENSING UNIT OPERATES AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT HEATING AND COOLING SET POINT TEMPERATURES.
UNOCCUPIED MODE: SUPPLY FAN CYCLES WITH THE LOAD. CONDENSING UNIT OPERATES AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT HEATING AND COOLING SETBACK TEMPERATURES.
4. UNIT HEATERS
CYCLE ON AND OFF TO MAINTAIN SET POINT OF INTERNAL THERMOSTAT. SET AT 50°F.
5. RESTROOM EXHAUST FANS, EF-1 AND EF-2
TIMER CONTROLS SHALL BE COORDINATED WITH AIR HANDLING UNIT OCCUPIED AND UNOCCUPIED MODE PERIODS. EXHAUST FANS OPERATE CONTINUOUSLY DURING OCCUPIED MODE AND SHUTDOWN DURING UNOCCUPIED MODE.
6. TRAINING AREA EXHAUST FAN, EF-3, AND LOUVERS, L-1 AND L-2
OPERATED ON DEMAND BY WALL MOUNTED HAND SWITCH. LOUVERS SHALL BE OPEN WHEN FAN IS COMMANDED TO RUN AND SHALL BE CLOSED WHEN FAN IS COMMANDED TO STOP.

DUCTWORK

1. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE.
2. DUCTWORK: GALVANIZED SHEET METAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA +2/-2 INCH PRESSURE CLASS. SEAL ALL DUCTWORK TO SMACNA SEAL CLASS B. GALVANIZED SPIRAL WOUND AND SHEET STEEL IN ACCORDANCE WITH ASTM A653 AND COATING WEIGHT OF G60.
3. FLEXIBLE DUCT: INSULATED, MINIMUM R VALUE OF R-6, UL181, CLASS 1.
4. FLEXIBLE CONNECTORS: PROVIDE FLEXIBLE CONNECTOR WHERE CONNECTING DUCT TO EQUIPMENT. FLEXIBLE CONNECTORS SHALL BE FLAME RETARDANT OR NON-COMBUSTIBLE FABRICS IN COMPLIANCE WITH UL 181, CLASS 1. GLASS FABRIC DOUBLE COATED SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OUTDOOR WEATHER.
5. DUCT INSULATION: MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN WITH FACTORY OR FIELD INSTALLED ALUMINUM JACKET. COMPLY WITH ASTM C553, TYPE II AND ASTM C1290. PROVIDE VAPOR RETARDER WITH MAXIMUM PERMEANCE OF 0.05 PERM ON INSULATED SUPPLY DUCTS THAT PROVIDE COOLING AND OUTDOOR AIR DUCTS.

ALL DUCT SHALL BE INSULATED TO THE FOLLOWING MINIMUM R-VALUE:

INDOOR EXPOSED SUPPLY AND RETURN DUCTS	NONE
INDOOR CONCEALED SUPPLY AND RETURN DUCTS	R-6
OUTSIDE AIR DUCTS	R-7
6. MANUAL BALANCING DAMPERS: PROVIDE DAMPERS OF SINGLE BLADE TYPE OR MULTI-BLADE TYPE, CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, AT ALL BRANCH CONNECTIONS TO TERMINAL LOCATIONS. PROVIDE WITH LOCKING FEATURE, EXTERNALLY LOCATED AND EASILY ACCESSIBLE FOR ADJUSTMENT.
7. TURNING VANES: PROVIDE TURNING VANES IN RECTANGULAR MITER ELBOWS. SINGLE WALL CURVED BLADES OF GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
8. DUCT SUPPORTS: DUCT SUPPORTS SHALL BE METAL STRAPS, THREADED ROD OR TRAPEZE HANGERS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
9. SOUND LINER: FIBROUS GLASS ACOUSTIC DUCT LINER IN ACCORDANCE WITH ASTM 1071 AND NFPA 90A, MINIMUM 1-INCH THICK. MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 50. ANTIMICROBIAL EROSION-RESISTANT COATING.
10. WALL PENETRATIONS: PROVIDE WEATHER TIGHT SEALS ON ALL EXTERIOR PENETRATIONS.
11. INSTALL DUCT, DUCT SUPPORTS, AND ACCESSORIES IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. INSTALL SUCH THAT CONTACT WITH MOVING EQUIPMENT, STRUCTURAL SUPPORTS, CONDUITS, OR PIPING IS PREVENTED.
12. INTERIOR EXPOSED DUCTWORK SHALL BE ROUND SPIRAL WOUND, UNLESS NOTED OTHERWISE. USE ROUND OR RECTANGULAR IN ALL OTHER AREAS.
13. INSTALL FLEXIBLE DUCT WITH MINIMUM BEND RADIUS OF 1 1/2 TIMES THE DUCT DIAMETER. FLEXIBLE DUCT SHALL BE NO MORE THAN 5'-0" IN LENGTH.
14. ALL DUCT SIZES INDICATE TOTAL FREE AREA REQUIRED. ADJUST DUCT SIZE, IF REQUIRED, TO ACCOUNT FOR REDUCED INTERIOR DIMENSIONS DUE TO LINER.
15. APPLY FLAT BLACK PAINT TO THE INSIDE OF DUCTWORK THAT IS VISIBLE THROUGH AIR OUTLETS.

DRAWING LIST

M-001	HVAC NOTES AND LEGEND
M-101	HVAC PLAN
M-102	HVAC PLAN
M-103	HVAC PLAN
M-301	HVAC SECTION VIEW
M-401	HVAC ENLARGED PLAN
M-601	HVAC EQUIPMENT SCHEDULE

ABBREVIATIONS

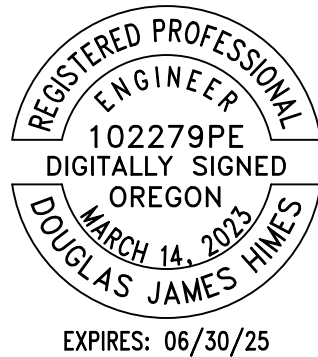
ABF	ABOVE FINISHED FLOOR
COND	CONDENSER
DB	DRY BULB
DH	DUCT HEATER
DOAS	DEDICATED OUTDOOR AIR SYSTEM
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ERV	ENERGY RECOVERY VENTILATOR
EVAP	EVAPORATOR
EXH	EXHAUST
EXT	EXTERNAL
FC	FAN COIL
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MINIMUM OVER CURRENT PROTECTION
OA	OUTSIDE AIR
OEESC	OREGON ENERGY EFFICIENCY SPECIALTY CODE
PH	PHASE
RA	RETURN AIR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
STPR	STATIC PRESSURE
UH	UNIT HEATER
WB	WET BULB
WPD	WATER PRESSURE DROP

LEGEND

	SUPPLY AIR REGISTER/DIFFUSER
	RETURN AIR REGISTER/GRILLE
	EXHAUST AIR REGISTER/GRILLE
XXX $\square$ YZZ"	REGISTER, GRILLE, OR DIFFUSER CALLOUT XXX FLOW RATE (CFM) Y TAG, SEE EQUIPMENT SCHEDULE ZZ NECK SIZE
28"x18"	RECTANGULAR DUCT SIZE (SHOWN SIDE X OTHER SIDE)
28".18"	FLAT OVAL DUCT SIZE (MAJOR AXIS:MINOR AXIS)
	THERMOSTAT
	MANUAL VOLUME DAMPER
	FLEXIBLE DUCT
	EXHAUST FAN



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HVAC

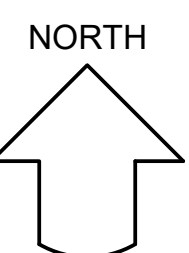
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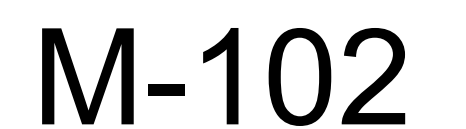
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**PRELIMINARY
NOT FOR CONSTRUCTION**

DRAWN BY	IB
CHECKED	BW
ENGINEER	MH
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

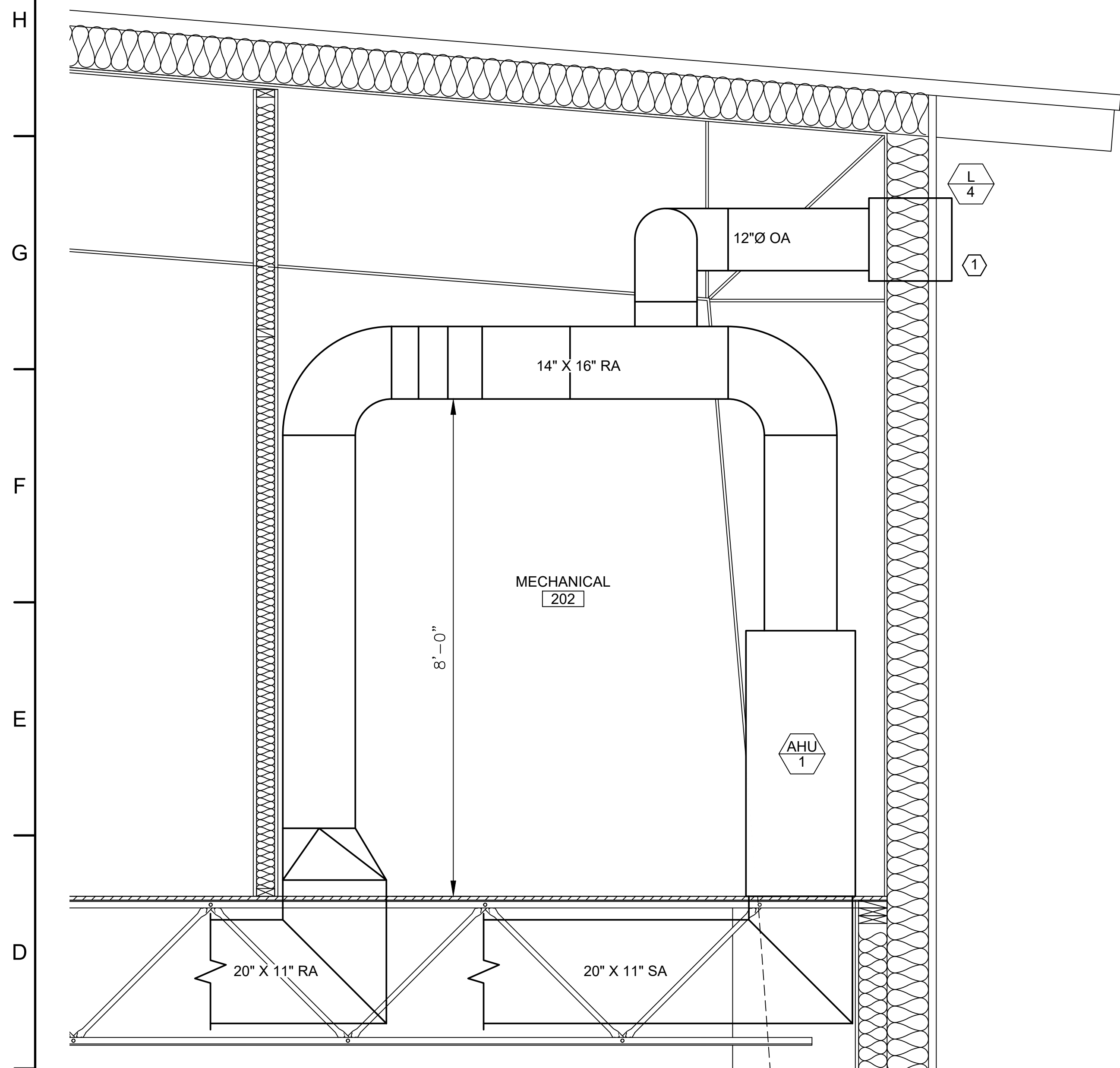
M-001





NORTH





A HVAC SECTION
SCALE: 1/2" = 1'-0"

NOTES

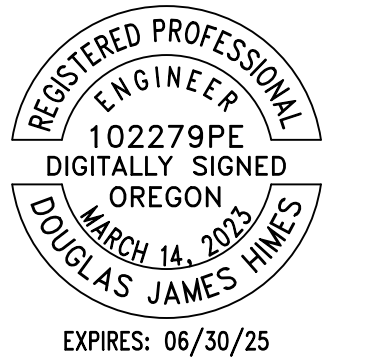
1. SEE SHEET M001 FOR GENERAL NOTES AND LEGEND
2. PROVIDE CONDENSATE DRAIN LINES FOR ALL INDOOR AIR HANDLING UNITS. ROUTE CONDENSATE LINES TO NEAREST SINK TAIL PIECE AND CONNECT WITH WYE-TYPE FITTING. IF NOT POSSIBLE TO CONNECT TO SINK, ROUTE OUTSIDE OF BUILDING THROUGH FULLY SEALED WEATHER TIGHT PENETRATION TO AN APPROVED LOCATION WHICH IS NOT OVER A PUBLIC TRAVEL PATH.
3. COORDINATE WITH LIGHTING CONTRACTOR.

KEY NOTES

1. PROVIDE OUTDOOR AIR PLENUM AT LOUVER. ROUTE OUTDOOR AIR DUCTS WITH MANUAL BALANCING DAMPERS FROM PLENUM TO EACH AHU RETURN. OPERABLE LOUVER IS CONTROLLED TO BE OPEN IN OCCUPIED MODE AND CLOSED IN UNOCCUPIED MODE.



2920 GEORGE WASHINGTON WAY
SUITE 204
RICHLAND, WA 99354
509-627-4800



APEX ELITE

**LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814**

HVAC SECTION VIEW

REV	DATE	DESCRIPTION FOR REVIEW	CHK IB	CHK DB
A	05/27/25			
PRELIMINARY NOT FOR CONSTRUCTION				
DRAWN BY			IB	
CHECKED			DB	
ENGINEER			MH	
APPROVED				
PROJECT			550-1189	
SHEET SIZE			ARCH D	
SHEET				

M-301



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

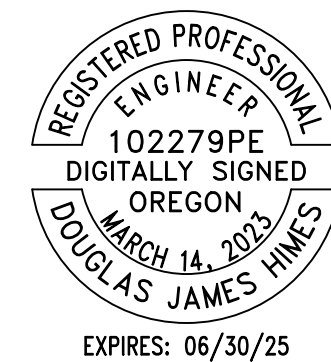
1. SEE SHEET M001 FOR GENERAL NOTES AND LEGEND
2. PROVIDE CONDENSATE DRAIN LINES FOR ALL INDOOR AIR HANDLING UNITS. ROUTE CONDENSATE LINES TO NEAREST SINK TAIL PIECE AND CONNECT WITH WYE-TYPE FITTING. IF NOT POSSIBLE TO CONNECT TO SINK, ROUTE OUTSIDE OF BUILDING THROUGH FULLY SEALED WEATHER TIGHT PENETRATION TO AN APPROVED LOCATION WHICH IS NOT OVER A PUBLIC TRAVEL PATH.
3. COORDINATE WITH LIGHTING CONTRACTOR.

KEY NOTES

1. PROVIDE OUTDOOR AIR PLENUM AT LOUVER. ROUTE OUTDOOR AIR DUCTS WITH MANUAL BALANCING DAMPERS FROM PLENUM TO EACH AHU RETURN. OPERABLE LOUVER IS CONTROLLED TO BE OPEN IN OCCUPIED MODE AND CLOSED IN UNOCCUPIED MODE.



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APEX ELITE

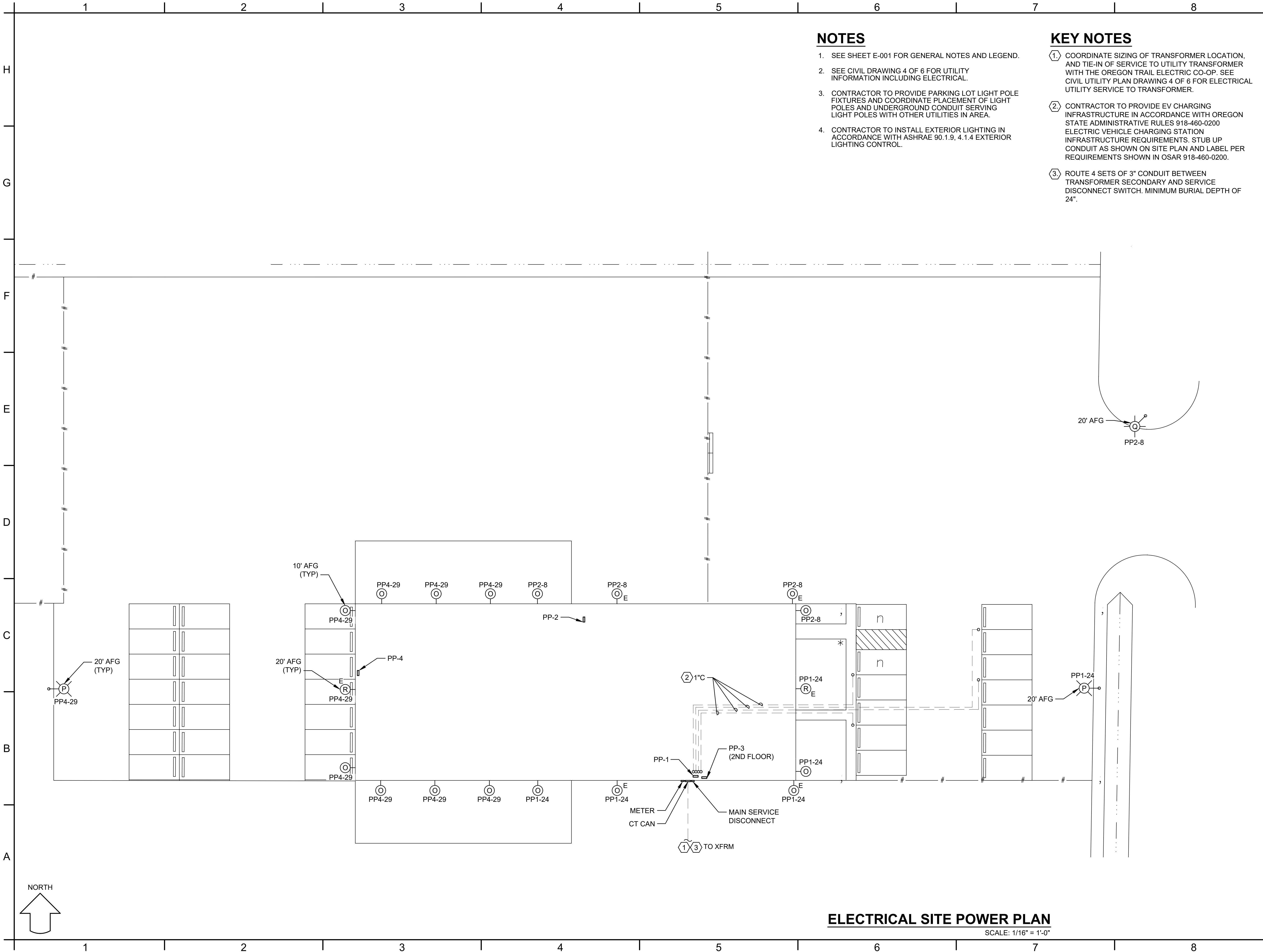
**LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814**

HVAC ENLARGED PLAN

[illegible]

M-401

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NOTES

- 1. SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
- 2. SEE CIVIL DRAWING 4 OF 6 FOR UTILITY INFORMATION INCLUDING ELECTRICAL.
- 3. CONTRACTOR TO PROVIDE PARKING LOT LIGHT POLE FIXTURES AND COORDINATE PLACEMENT OF LIGHT POLES AND UNDERGROUND CONDUIT SERVING LIGHT POLES WITH OTHER UTILITIES IN AREA.
- 4. CONTRACTOR TO INSTALL EXTERIOR LIGHTING IN ACCORDANCE WITH ASHRAE 90.1.9, 4.1.4 EXTERIOR LIGHTING CONTROL.

KEY NOTES

- 1. COORDINATE SIZING OF TRANSFORMER LOCATION, AND TIE-IN OF SERVICE TO UTILITY TRANSFORMER WITH THE OREGON TRAIL ELECTRIC CO-OP. SEE CIVIL UTILITY PLAN DRAWING 4 OF 6 FOR ELECTRICAL UTILITY SERVICE TO TRANSFORMER.
- 2. CONTRACTOR TO PROVIDE EV CHARGING INFRASTRUCTURE IN ACCORDANCE WITH OREGON STATE ADMINISTRATIVE RULES 918-460-0200 ELECTRIC VEHICLE CHARGING STATION INFRASTRUCTURE REQUIREMENTS. STUB UP CONDUIT AS SHOWN ON SITE PLAN AND LABEL PER REQUIREMENTS SHOWN IN OSAR 918-460-0200.
- 3. ROUTE 4 SETS OF 3" CONDUIT BETWEEN TRANSFORMER SECONDARY AND SERVICE DISCONNECT SWITCH. MINIMUM BURIAL DEPTH OF 24".



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APEX ELITE

LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814

ELECTRICAL
SITE POWER PLAN

REV	DATE	DESCRIPTION	DRW		CHK										
			IB	PS											
A	05/27/25	FOR REVIEW													

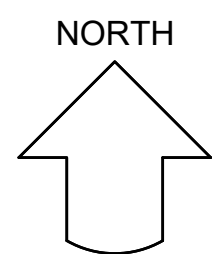
PRELIMINARY
NOT FOR CONSTRUCTION

DRAWN BY	IB
CHECKED	PS
ENGINEER	DM
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D
SHEET	

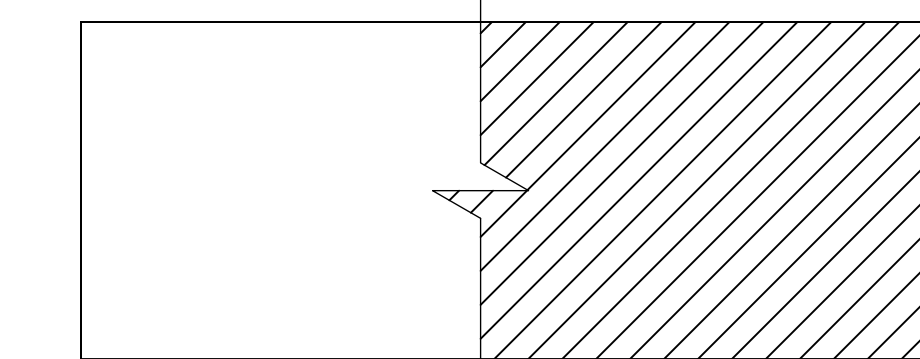
E-101

ELECTRICAL SITE POWER PLAN

SCALE: 1/16" = 1'-0"







ELECTRICAL 1ST FLOOR LIGHTING PLAN

SCALE: 1/8"=1'-0"

1. DIMMER SWITCH TO BE CONFIGURED TO ENABLE THE REDUCTION OF LIGHTING POWER BY A MINIMUM OF 50% AND TO TURN LIGHTING 100% OFF IN ACCORDANCE WITH ASHRAE 90.1, 2022 TABLE 9.3.1-3.
2. OCCUPANCY SENSORS TO BE CONFIGURED TO AUTOMATICALLY TURN OFF LIGHTS WHEN SPACE IS UNOCCUPIED IN ACCORDANCE WITH ASHRAE 90.1, 2022 TABLE 9.3.1-3.
3. FIXTURE TO BE WALL MOUNTED ABOVE DOOR.
4. CONTRACTOR TO PROVIDE AUTOMATIC DAYLIGHT RESPONSE CONTROLS FOR SIDE LIGHTING IN ACCORDANCE WITH ASHRAE 9.4.1.1.E.



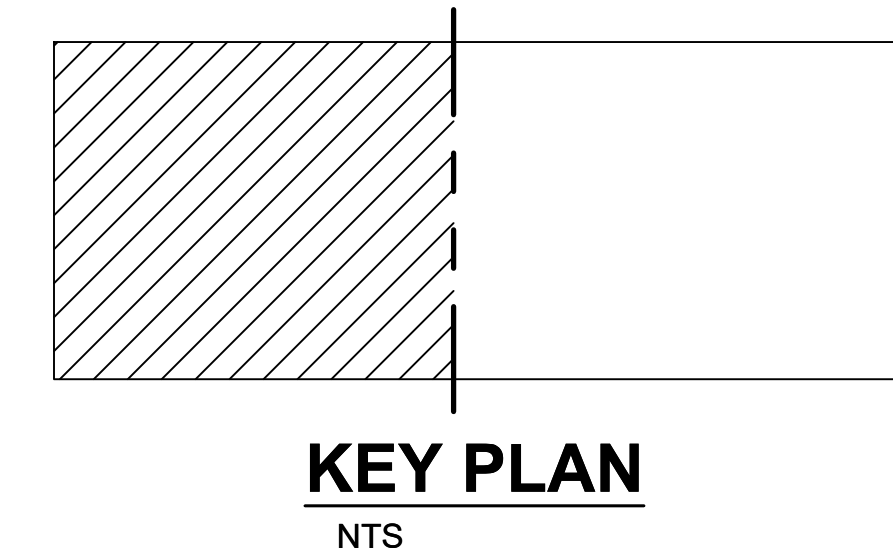
**LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814**

ELECTRICAL 1ST FLOOR
LIGHTING PLAN[illegible]

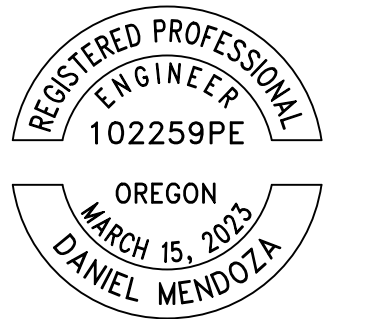
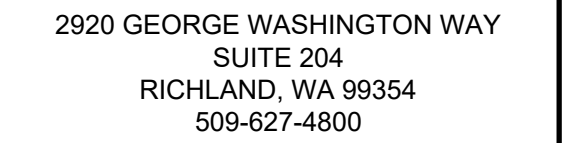
**PRELIMINARY
NOT FOR CONSTRUCTION**

DRAWN BY	IB
CHECKED	PS
ENGINEER	DM
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

E-105



1. SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
2. EXACT LOCATIONS OF ELECTRICAL COMPONENTS SUCH AS SWITCHES AND LIGHTS MAY VARY BASED ON EXISTING FIELD CONDITIONS AND AS INSTALLED IN FIELD BY CONTRACTOR.
3. FOR EXTERIOR LIGHTING REFER TO SITE PLAN SHEET E-101.
4. CONTRACTOR TO MOUNT TYPE A LIGHT FIXTURES TO SUPPORT BEAMS
5. CONTRACTOR TO PROVIDE SELF POWERED EXIT SIGNS AND INSTALL EMERGENCY EXIT SIGNS IN ACCORDANCE WITH EGRESS PLANS INDICATED ON ARCHITECTURAL PLANS.



APEX ELITE
LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814

**ELECTRICAL 2ND FLOOR
LIGHTING PLAN**

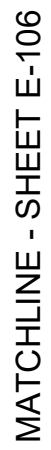
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**PRELIMINARY
NOT FOR CONSTRUCTION**

DRAWN BY	IB
CHECKED	PS
ENGINEER	DM
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

SHEET

E-106



NOTES

1. SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
2. EXACT LOCATIONS OF ELECTRICAL COMPONENTS SUCH AS SWITCHES AND LIGHTS MAY VARY BASED ON EXISTING FIELD CONDITIONS AND AS INSTALLED IN FIELD BY CONTRACTOR.
3. FOR EXTERIOR LIGHTING REFER TO SITE PLAN SHEET E-101.
4. CONTRACTOR TO PROVIDE SELF POWERED EXIT SIGNS AND INSTALL EMERGENCY EXIT SIGNS IN ACCORDANCE WITH EGRESS PLANS INDICATED ON ARCHITECTURAL PLANS.

KEY NOTES

- ① OCCUPANCY SENSORS TO BE CONFIGURED TO AUTOMATICALLY REDUCE LIGHTING POWER BY 50% WHEN NO ACTIVITY IS DETECTED FOR NO LONGER THAN 15 MINUTES AND TURN OFF LIGHTS WHEN BUILDING IS UNOCCUPIED IN ACCORDANCE WITH ASHRAE 90.1, 2022 TABLE 9.3.1-2.
- ② CONTRACTOR TO MOUNT FIXTURE AT 7'-6".



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APEX ELITE

LINE ACADEMY

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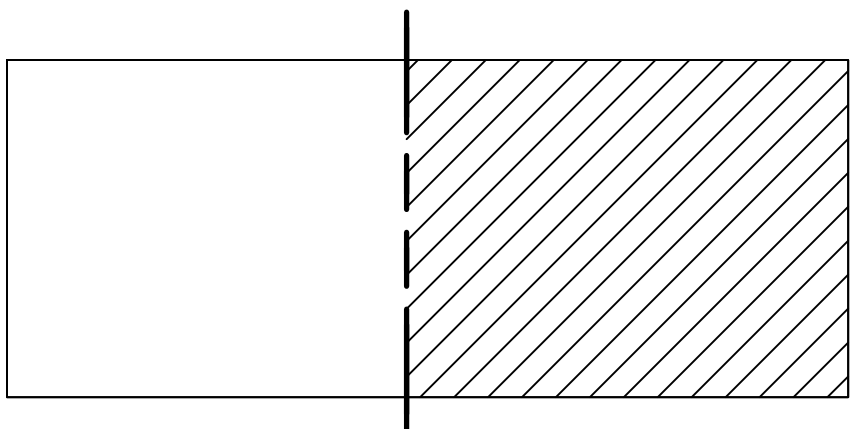
ELECTRICAL 2ND FLOOR LIGHTING PLAN

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**PRELIMINARY
NOT FOR CONSTRUCTION**

DRAWN BY	IB
CHECKED	PS
ENGINEER	DM
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

E-107

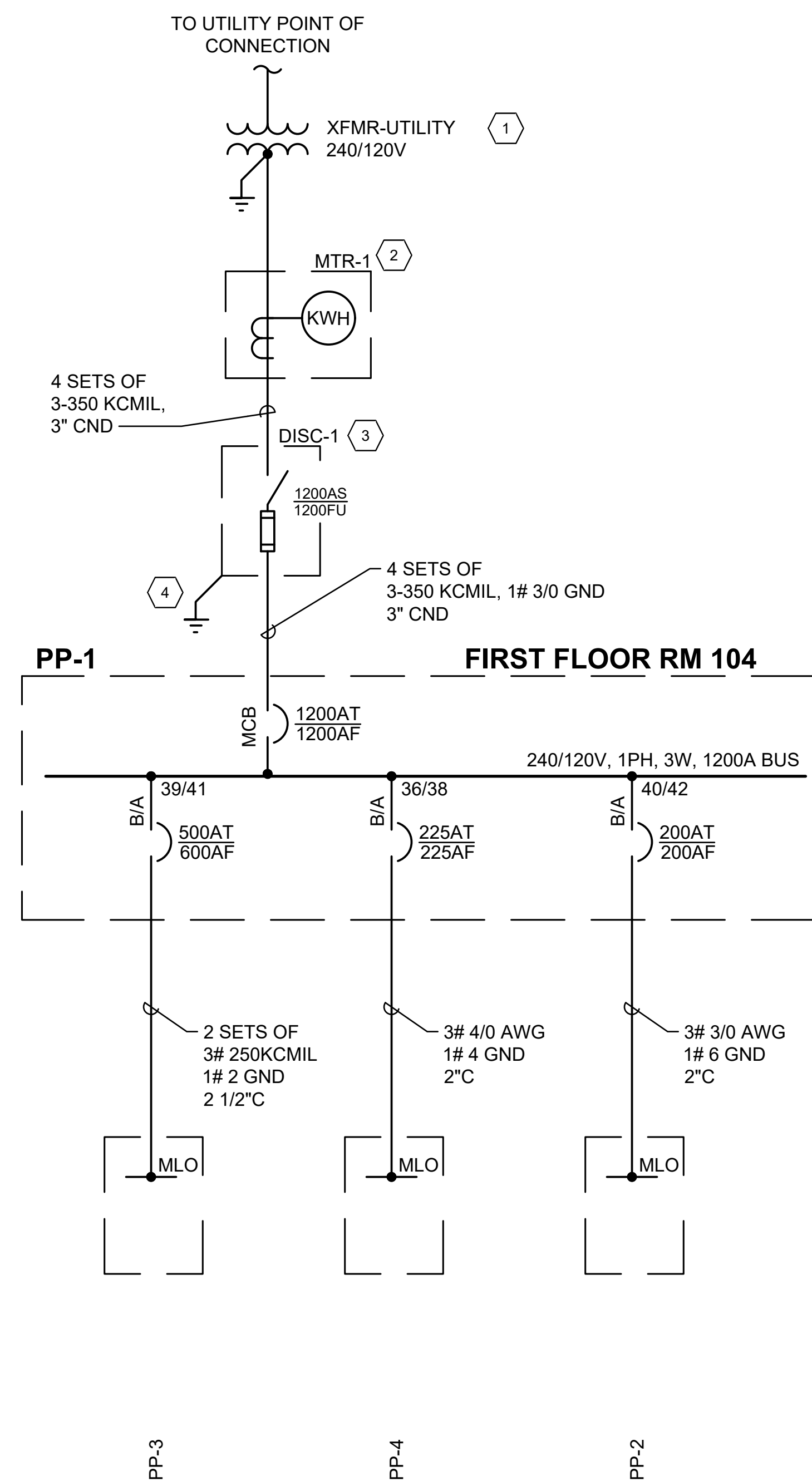


KEY PLAN

NTS

ELECTRICAL 2ND FLOOR LIGHTING PLAN

SCALE: 1/8"=1'-0"



ONE-LINE DIAGRAM

NOTES

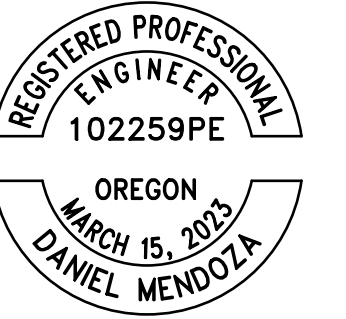
1. SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
2. ELECTRICAL CONTRACTOR TO ROUTE SERVICE CONDUCTORS FROM TRANSFORMER AND SERVICE METER TO SERVICE ENTRANCE PANELS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OREGON TRAIL ELECTRIC CO-OP FOR ALL TIE-IN, METERING AND INSTALLATION REQUIREMENTS.
3. SEE PANEL SCHEDULES FOR 1-PHASE, 240/120V LOADS ON PANELBOARDS.

KEY NOTES

1. CONTRACTOR TO COORDINATE WITH THE SERVING UTILITY, OREGON TRAIL ELECTRIC CO-OP, ON TRANSFORMER SIZE AND LOCATION.
2. CONTRACTOR TO PROVIDE METERING IN ACCORDANCE WITH OREGON TRAIL ELECTRIC CO-OP INSTALLATION REQUIREMENTS AND EQUIPMENT SPECIFICATIONS.
3. PROVIDE SERVICE ENTRANCE RATED DISCONNECT SWITCH WITH OVERCURRENT PROTECTION.
4. ELECTRICAL CONTRACTOR TO PROVIDE A GROUNDING ELECTRODE SYSTEM AT THE SERVICE IN ACCORDANCE WITH NEC ARTICLE 250.



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APEX ELITE

LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814

ELECTRICAL ONE-LINE DIAGRAM

[illegible]

E-601

	1	2	3	4	5	6	7	8	
H									
G	2								
	2								
	1								
F									
	1								
	1								
E	2								
D									
C									
B									
A									

JOB:	PANEL NAME:							1200 AMP PANEL		1200 AMP MAIN 3 WIRE			
APEX ELITE LINE ACADEMY	PP-1							VOLTAGE: 240/120			PANEL LOCATION: ROOM 104 ELECTRICAL		
FED FROM: OREGON TRAIL ELECTRIC CO-OP											LOCATION: RM 104 ELECTRICAL		
DESCRIPTION	VOLT-AMPS		BRKR	LOAD				LOAD	BRKR	VOLT-AMPS		DESCRIPTION	
	A	B	A/P	TYPE		A	B	TYPE	A/P	A	B		
RM 110 CLASSROOM (6 DUPLEX) - GENERAL REC.	1080		15/1	R	1	*	2	R	15/1	720		RM 110 CLASSROOM (4 DUPLEX) -GENERAL REC.	
RM 110 CLASSROOM (5 DUPLEX), EXTERIOR(1) -GENERAL REC.		1080	15/1	R	3		4	LR	15/1		1016	RM 110 CLASSROOM (8H) -LIGHTING. RM 110 CLASSROOM (4 DUPLEX) -GENERAL REC.	
HALLWAY 110A/ 110B/ 110C (11B), VESTIBULE 100B (1B), RM 112 STORAGE (1J) -LIGHTING. RM 110 CLASSROOM (4 DUPLEX) -GENERAL REC.	840		15/1	L R	5	*	6	L R	15/1	1196		RM 110 CLASSROOM (8H) -LIGHTING. RM 113 INSTRUCTORS OFFICE (1), 110A HALLWAY (2), 110 CLASSROOM (2) -GENERAL REC.	
RM 105 (2G), 106 (2G), 107 (2G) RESTROOM -LIGHTING. RM 105, 106, 107 RESTROOM (3) -GENERAL REC. EF-2 - LARGEST MOTOR.		600	20/1	L R L M	7		8	L R	20/1			RM 104 ELECTRICAL (1J), 103 CONFERENCE ROOM (8K) -LIGHTING. RM 103 CONFERENCE (4), 104 ELECTRICAL (1), 102 OFFICE (4) -GENERAL REC.	
HP-1 -HVAC.	2880		40/2	H	9	*	10	H	25/2	1800		HP-2 -HVAC.	
		2880			11		12				1800		
HP-5 -HVAC.	1800		25/2	H	13	*	14	H	25/2	1800		HP-4 -HVAC.	
		1800			15	*	16				1800		
HP-3 -HVAC.	1800		25/2	H	17	*	18	H	20/2	1980		HP-6 -HVAC.	
		1800			19	*	20				1980		
FC-6 -HVAC.	60		15/2	H	21	*	22	L R	20/1	1825		RM 108 OFFICE (4L), 109 OFFICE (4L), 111 BREAK RM (4B) -LIGHTING. RM 100 RECEPTION (2), 110C HALLWAY (2), 108 OFFICE (3), 109 OFFICE (2) - GENERAL REC.	
		60			23	*	24			L	20/1		
RM 102 OFFICE (6M), 101 OFFICE (6M), 100A (2C) -LIGHTING. RM 101 OFFICE (5), 100 RECEPTION (2), 110C HALLWAY (1) -GENERAL REC.	1776		20/1	L R	25	*	26	C	15/1	180		RM 100 RECEPTION FAN -CONTINUOUS.	
		0			27	*	28	C	50/2		4800	FUTURE EV CHARGER -CONTINUOUS.	
	0				29	*	30			4800			
FUTURE EV CHARGER -CONTINUOUS.		4800	50/2	C	31	*	32	C	50/2		4800	FUTURE EV CHARGER -CONTINUOUS.	
	4800				33	*	34			4800			
FUTURE EV CHARGER -CONTINUOUS.		4800	50/2	C	35	*	36	NC	225/2		18083	PP-4 -NON CONTINUOUS.	
	4800				37	*	38			18083			
PP-3 -NON CONTINUOUS.		51760	450/2	NC	39	*	40	NC	200/2		17666	PP-2 -NON CONTINUOUS.	
	51760				41	*	42			17666			
TOTAL VA LEFT	71596	69580	TOTAL CONNECTED LOAD:						REMARKS:				
TOTAL VA RIGHT	54850	54051	250076 VA						1042 AMPS				
TOTAL VA	126446	123630	TOTAL FEEDER DEMAND LOAD:										
TOTAL AMPS	1054	1030	259951 VA						1083 AMPS				

L = LIGHTING LOADS
R = GENERAL USE RECEPTACLES
H = HVAC
LM = LARGEST SINGLE MOTOR LOAD

M = MOTOR LOADS
DR = DEDICATED/SPECIFIC USE
C = CONTINUOUS LOAD
NC = NON CONTINUOUS LOAD

FEEDER DEMAND LOAD CALC.		
LIGHTING VA	x 125% =	2217
GEN RECEPTACLE VA	* First 10,000 VA + 50% OF REMAINDER =	10220
DEDICATED REC VA	x 100% =	0
HVAC	x 100% =	24240
MOTOR VA	x 100% + (LM x 125%) =	31
CONTINUOUS VA	x 125% =	48225
NON CONTINUOUS VA	x 100% =	175018
TOTAL=		259951

LIGHTING SCHEDULE							
LABEL	MANUFACTURER	CATALOG NUMBER	# OF LAMPS PER FIXTURE	TYPE	Lamp Lumens	WATTS	QTY
A	LITHONIA LIGHTING	JCBL 24000LM ACFR 40K 80CRI ACRFGL	1	LED	22235.7	160.0	11
B	LITHONIA LIGHTING	LSIX 2FT 1000LM 80CRI 40K MVOLT	1	LED	1103.1	8.4	16
C	LITHONIA LIGHTING	LDN6 30/07 LO6WR	1	LED	685.2	8.9	2
D	LITHONIA LIGHTING	LDN6CYL 40/15 LO6AR LSS	1	LED	1516.4	17.5	3
F	LITHONIA LIGHTING	WL4 20L LP840	1	LED	2254.6	18.7	1
G	LITHONIA LIGHTING	LDN6 30/05 LO6WR	1	LED	477.1	5.8	12
H	LITHONIA LIGHTING	CLX L96 6000LM SEF WDL MVOLT 40K 80CRI	1	LED	6122.4	37.0	18
J	LITHONIA LIGHTING	CLX L24 2500LM SEF WDL MVOLT GZ10 40K 80CRI	1	LED	2540.7	18.4	2
K	LITHONIA LIGHTING	LSIX 2FT 2000LM 80CRI 40K MVOLT	1	LED	2125.0	17.0	20
L	LITHONIA LIGHTING	LSIX 2FT 2500LM 80CRI 40K MVOLT	1	LED	2684.9	21.4	8
M	LITHONIA LIGHTING	LSIX 2FT 3000LM 80CRI 40K MVOLT	1	LED	3232.2	26.5	19
N	LITHONIA LIGHTING	CLX L48 4000LM SEF WDL MVOLT 40K 80CRI	1	LED	4055.7	25.5	13
O	LITHONIA LIGHTING	MRW LED P1 40K SR4 MVOLT	1	LED	2189.5	19.6	15
P	LITHONIA LIGHTING	DSX1 LED P6 40K 80CRI BLC4 EGS-F	1	LED	7269.5	165.3	2
Q	LITHONIA LIGHTING	DSX1 LED P3 40K 80CRI RCOO EGS	1	LED	9189.7	102.2	1
R	LITHONIA LIGHTING	DSXW1 P6 40K 80CRI TFTM HS	1	LED	5711.7	48.3	2

DAYLIGHT ZONE FIXTURES		
Label	Catalog Number	# OF FIXTURES IN DAYLIGHT ZONE
D	LDN6CYL 40/15 LO6AR LSS	3
L	LSIX 2FT 2500LM 80CRI 40K MVOLT	7

NOTES

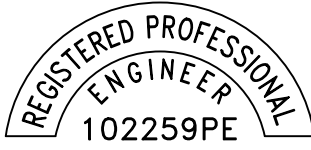
1. SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
2. ALL CIRCUIT BREAKERS SHALL BE LOCKABLE IN THE OPEN POSITION.

KEY NOTES

- 1) CONTRACTOR TO INSTALL HACR RATED BREAKER.
- 2) PROVIDE CIRCUIT BREAKER RATED FOR HIGH IN RUSH CURRENT FOR USE WITH LED LIGHT FIXTURES.



2920 GEORGE WASHINGTON WAY
SUITE 204
RICHLAND, WA 99354
509-627-4800



APEX ELITE
LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814

ELECTRICAL
PANEL AND LIGHTING SCHEDULES

DRW	CHK	IB	PS																
REV	DATE	DESCRIPTION	FOR REVIEW																
A	05/27/25																		

PRELIMINARY
NOT FOR CONSTRUCTION

DRAWN BY	IB
CHECKED	PS
ENGINEER	DM
APPROVED	
PROJECT	550-1189
SHEET SIZE	ARCH D

SHEET
E-602

[illegible]

 Excelsior DESIGN									
2920 GEORGE WASHINGTON WAY SUITE 204 RICHLAND, WA 99354 509-627-4800									
									
APEX ELITE LINE ACADEMY 3765 23rd STREET BAKER CITY, OR 97814					ELECTRICAL PANEL SCHEDULE				
REV	DATE	DESCRIPTION	FOR REVIEW	IB	PS	CHK	DRW	CHK	
A	05/27/25								
PRELIMINARY NOT FOR CONSTRUCTION									
DRAWN BY					IB				
CHECKED					PS				
ENGINEER					DM				
APPROVED									
PROJECT					550-1189				
SHEET SIZE					ARCH D				
SHEET									
E-604									

	1	2	3	4	5	6	7	8	
H									
G									
F									
E									
D									
C									
B									
A									
	1	2	3	4	5	6	7	8	

JOB:		PANEL NAME:						225 AMP PANEL		MAIN LUGS ONLY 3 WIRE			
APEX ELITE LINE ACADEMY		PP-4						VOLTAGE: 240/120			PANEL LOCATION: ROOM 116 WEST WALL		
FED FROM: PP-1 CKT 36/38										LOCATION: RM 116 TRAINING AREA W. WALL			
DESCRIPTION	VOLT-AMPS		BRKR	LOAD				LOAD	BRKR	VOLT-AMPS		DESCRIPTION	
	A	B	A/P	TYPE		A	B	TYPE	A/P	A	B		
RM 116 TRAINING AREA N 240V REC - DEDICATED REC.	1920		20/2	DR	1	*	2	DR	20/2	1920		RM 116 TRAINING AREA N 240V REC -DEDICATED REC.	
		1920			3	*	4				1920		
RM 116 TRAINING AREA (4), EXTERIOR (3) GENERAL REC.	1260		20/1	R	5	*	6	H	40/2	3758		UH-1 -HVAC.	
UH-2 -HVAC.		3758	40/2	H	7	*	8				3758		
	3758				9	*	10	M	15/1	1344		OH-02 -MOTOR.	
OH-01 -LARGEST MOTOR.		1344	15/1	LM	11	*	12	M	15/1		1344	OH-05 -MOTOR.	
OH-03 -MOTOR.	1344		15/1	M	13	*	14	M	15/1	1344		OH-07 -MOTOR.	
OH-06 -MOTOR.		1344	15/1	M	15	*	16				0		
	0				17	*	18			0			
		0			19	*	20				0		
	0				21	*	22	M	15/1	144		DSF-1 -MOTOR.	
RM 116 TRAINING AREA (4A) -LIGHTING.		640	15/1	L	23	*	24	M	15/1		144	DSF-2 -MOTOR.	
EF-3 -HVAC.	732		15/2	H	25	*	26	M	15/1	144		DSF-4 -MOTOR.	
		732			27	*	28	M	15/1		144	DSF-3 -MOTOR.	
EXTERIOR (60, 1 R, 1P) -LIGHTING.	331		20/1	L	29	*	30			0			
RM 116 TRAINING AREA (3A) -LIGHTING.		480	15/1	L	31	*	32				0		
RM 116 TRAINING AREA (4A) -LIGHTING.	640		15/1	L	33	*	34			0			
		0			35	*	36				0		
	0				37	*	38			0			
		0			39	*	40				0		
	0				41	*	42			0			
TOTAL VA LEFT	9985	10218	TOTAL CONNECTED LOAD:						REMARKS:				
TOTAL VA RIGHT	8654	7310	36167 VA						151 AMPS				
TOTAL VA	18639	17528	TOTAL FEEDER DEMAND LOAD:										
TOTAL AMPS	155	146	37026 VA						154 AMPS				

L = LIGHTING LOADS
R = GENERAL USE RECEPTACLES
H = HVAC
LM = LARGEST SINGLE MOTOR LOAD

M = MOTOR LOADS
DR = DEDICATED/SPECIFIC USE
C = CONTINUOUS LOAD
NC = NON CONTINUOUS LOAD

FEEDER DEMAND LOAD CALC.	
LIGHTING VA	x 125% = 2814
GEN RECEPTACLE VA	* First 10,000 VA + 50% OF REMAINDER = 1260
DEDICATED REC VA	x 100% = 7680
HVAC	x 100% = 16496
MOTOR VA	x 100% + (LM x 125%) = 8976
CONTINUOUS VA	x 125% = 0
NON CONTINUOUS VA	x 100% = 0
TOTAL=	37026

- NOTES
1.

SEE SHEET E-001 FOR GENERAL NOTES AND LEGEND.
2.

ALL CIRCUIT BREAKERS SHALL BE LOCKABLE IN THE OPEN POSITION.

- KEY NOTES
- 1

CONTRACTOR TO PROVIDE GFCI CIRCUIT BREAKERS WHERE APPLICABLE IN ACCORDANCE WITH NEC 210.8 (B).
- 2

CONTRACTOR TO INSTALL HACR RATED BREAKER.
- 3

PROVIDE CIRCUIT BREAKER RATED FOR HIGH IN RUSH CURRENT FOR USE WITH LED LIGHT FIXTURES.

Excelsior

DESIGN

2920 GEORGE WASHINGTON WAY
SUITE 204
RICHLAND, WA 99354
509-627-4800

REGISTERED PROFESSIONAL
ENGINEER
102259PE

OREGON
MARCH 15, 2013
DANIEL MENDOZA

APEX ELITE

LINE ACADEMY
3765 23rd STREET
BAKER CITY, OR 97814

ELECTRICAL
PANEL SCHEDULE

REV	DATE	DESCRIPTION	DRW	CHK	IB	PS
A	05/27/25	FOR REVIEW				
PRELIMINARY NOT FOR CONSTRUCTION						
DRAWN BY			IB			
CHECKED			PS			
ENGINEER			DM			
APPROVED						
PROJECT			550-1189			
SHEET SIZE			ARCH D			

E-605