



PROJECT PHASE	
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REVISIONS		
NO.	DESCRIPTION	DATE
B	OWNER REVISIONS	05.21.2025

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SMITH RESIDENCE
PARCEL: 105-21-001M, E LOMA LN,
SIERRA VISTA (COCHISE COUNTY), AZ 85650
ELECTRICAL COVER SHEET

DRAWN	AV
CHECKED	JAM
DATE	05.01.2024
SCALE	AS SHOWN
JOB NO.	2137
SHEET	E0.1

ELECTRICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT)

LIGHTING
(SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION OF ALL FIXTURES.)

- SURFACE MOUNTED OR LAY-IN TROFFER FIXTURE.
- SURFACE MOUNTED OR CEILING SUSPENDED STRIP FIXTURE.
- SURFACE MOUNTED WRAPAROUND FIXTURE.
- NIGHTLIGHT (NL) AND/OR EMERGENCY FIXTURE (EM). SEE PLAN FOR DESIGNATION.
- WALL MOUNTED LIGHT FIXTURE.
- RECESSED WALL WASH FIXTURE. AIM AS DIRECTED BY THE ARCHITECT.
- LIGHTING TRACK.
- TRACK HEAD OR FLOODLIGHT FIXTURE.
- DUAL HEAD EMERGENCY LIGHT FIXTURE WITH 90 MINUTE BATTERY PACK. AIM AS DIRECTED BY CITY INSPECTOR.
- CEILING MOUNTED EMERGENCY EXIT SIGN. ARROWS INDICATE PATH OF EGRESS. SHADED AREA INDICATES FACE.
- WALL MOUNTED EMERGENCY EXIT SIGN. ARROWS INDICATE PATH OF EGRESS. SHADED AREA INDICATES FACE.

DEVICES

- SINGLE-POLE TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.
- TWO-POLE TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.
- THREE-WAY TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.
- FOUR-WAY TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.
- MULTI-LEVEL SWITCHING. INNER LAMPS OF FLUORESCENT FIXTURES TO BE SWITCHED BY "1/4" AND OUTER LAMPS TO BE SWITCHED BY "1/2". INCANDESCENT OR SINGLE BALLAST FIXTURES TO BE SWITCHED AS INDICATED ON DRAWINGS.
- SLIDE CONTROL DIMMER AT +48" AFF TO TOP OF BOX (1500 WATT OR AS NOTED ON PLANS).
- OCCUPANCY SENSOR SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.
- ASTRONOMIC TIMESWITCH. 3PST, 40 AMP, 120 VOLT UNLESS NOTED OTHERWISE.
- PHOTOCELL MOUNTED ON ROOF. AIM NORTH. "TORK" #2101 OR EQUAL.
- DUPLEX CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR AS NOTED.
- DOUBLE DUPLEX (FOURPLEX) CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR AS NOTED.
- SINGLE CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR AS NOTED.
- DUPLEX CONVENIENCE RECEPTACLE MOUNTED ABOVE COUNTERTOP. SEE ARCHITECT'S INTERIOR ELEVATION FOR EXACT MOUNTING HEIGHT.
- HALF-SWITCHED DUPLEX CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR AS NOTED. COMPUTER DUPLEX RECEPTACLE AT 15" AFF TO BOTTOM OF BOX OR AS NOTED. PROVIDE "GRAY" OUTLET BODY WITH STANDARD COVERPLATE. OUTLETS
- ISOLATED GROUNDING OUTLET AT +15" TO BOTTOM OR AS NOTED. (ORANGE) RECEPTACLE WITH ISOLATED GROUND.
- SPECIAL RECEPTACLE AS NOTED ON DRAWINGS (250 VOLT).
- SPECIAL RECEPTACLE AS NOTED ON DRAWINGS (600 VOLT).
- JUNCTION BOX IN ACCESSIBLE LOCATION.
- JUNCTION BOX FLUSH MOUNTED IN WALL UNLESS NOTED OTHERWISE.
- FLOOR MOUNTED DEVICE. TYPICAL OF ALL OUTLET SYMBOLS.
- PLUG-MOLD. LENGTH AND TYPE AS NOTED ON DRAWINGS. MOUNT AT +15" AFF TO BOTTOM OR AS NOTED ON THE DRAWINGS.
- POWER POLE. SEE DRAWINGS FOR SPECIFICATIONS.

SPECIAL SYSTEMS

- TELEPHONE OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED. STUB 3/4" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
- DATA OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED. STUB 3/4" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
- COMBINATION TELEPHONE AND DATA OUTLET IN COMMON 4-SQUARE BOX AT +15" AFF TO BOTTOM OR AS NOTED. STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
- MULTIPLE DATA OUTLET IN COMMON 4-SQUARE BOX AT +15" AFF TO BOTTOM OR AS NOTED. STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE. (NUMBER INDICATES REQUIRED CABLE TACKS)
- TELEVISION OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.

POWER

- U.L. LABELLED, HORSEPOWER RATED, MANUAL MOTOR STARTER WITH THERMAL OVERLOAD(S), OVERLOAD HEATERS TO BE SIZED PER NEMA AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. SQUARE "D" TYPE "M" SERIES OR EQUAL.
- CONTACTOR FURNISHED AND INSTALLED BY OTHERS.
- CONTACTOR FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SIZE AS INDICATED ON DRAWINGS.
- FUSED DISCONNECT SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SIZE AND FUSES PER RECOMMENDATIONS OF EQUIPMENT MANUFACTURER OR AS NOTED. PROVIDE NEMA 3R ENCLOSURE FOR EXTERIOR OR WET LOCATIONS. (N.F. INDICATES NON-FUSED).
- ELECTRIC MOTOR. SIZE AS INDICATED ON DRAWINGS.
- CIRCUIT BREAKER. SIZE AS INDICATED ON DRAWINGS.
- FUSED SWITCH WITH REJECTION TYPE CLIPS. SIZE AS INDICATED ON DRAWINGS.
- PULL-OUT STYLE FUSED DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS.
- DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE.
- TRANSFORMER. SEE DRAWINGS FOR TYPE AND SPECIFICATION.
- SURFACE OR FLUSH MOUNTED PANELBOARD. MOUNT TOP OF PANEL AT +6"-6" AFF EXCEPT FOR "R" OCCUPANCY WHERE NO OPERABLE DEVICE SHALL EXCEED +48" AFF. SEE PANELBOARD SCHEDULE.
- CONTROL CABINET. SEE DRAWING FOR TYPE AND SPECIFICATION.
- PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 COPPER GROUND & DEDICATED DUPLEX CONVENIENCE OUTLET. FURNISH IN ACCORDANCE WITH TELEPHONE COMPANY'S REQUIREMENTS. SIZE AS NOTED ON DRAWINGS. PLYWOOD SHALL BE 3/4" TYPE "CDX".

WIRE/CONDUIT

- FLEXIBLE CONDUIT AT CONNECTIONS TO VIBRATING EQUIPMENT AND TRANSFORMERS. PROVIDE LIQUID-TIGHT FLEX FOR WET OR EXTERIOR LOCATIONS.
- CONDUIT CONCEALED IN WALLS OR ABOVE CEILING. 2 #12, 1 #12 NEUT., 1 #12 GRD., 1/2" C., UNLESS NOTED OTHERWISE.
- CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE. 2 #12, 1 #12 NEUT., 1 #12 GRD., 3/4" C., UNLESS NOTED OTHERWISE.
- CONDUIT TURNING UP.
- CONDUIT TURNING DOWN.
- PHASE CONDUCTORS
- NEUTRAL CONDUCTOR
- ISOLATED GROUNDING CONDUCTOR (EQUIPMENT BONDING CONDUCTOR INCLUDED, BUT NOT SHOWN).

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR.	I.G.	ISOLATED GROUND
A.F.G.	ABOVE FINISHED GRADE.	N1	NEMA 1.
AFCI	ARC FAULT CIRCUIT INTERRUPTER	N3R	NEMA 3R.
A.R.M.	ARC REDUCTION MANAGEMENT (ARC FLASH MITIGATION).	NL	NIGHTLIGHT. BYPASS LOCAL SWITCHING.
E.F.	EXHAUST FAN	U.N.O.	UNLESS NOTED OTHERWISE.
EM	EMERGENCY LIGHT.	WP	WEATHERPROOF.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	XFMR	TRANSFORMER.
GND.	GROUND	XP	EXPLOSION PROOF.

GENERAL RESIDENTIAL NOTES:

- ALL RECEPTACLES WITHIN 6' OF ALL SINKS AND IN THE FOLLOWING AREAS SHALL BE GFCI PROTECTED: KITCHEN COUNTERS, BATHROOMS, WET BAR SINKS, GARAGES, AND OUTDOORS PER NEC 210.8(A).
- PROVIDE A MINIMUM OF TWO 20 AMP SMALL APPLIANCE BRANCH CIRCUITS FOR RECEPTACLES IN THE KITCHEN PER NEC210.11(C)(1). THESE CIRCUITS SHALL HAVE NO OTHER OUTLETS PER NEC 210.52(B)(2).
- RECEPTACLES SERVING KITCHEN COUNTER SPACES MUST BE SPACED SO NO POINT OF A COUNTER IS FURTHER THAN 24" FROM A RECEPTACLE. ISLANDS AND PENINSULAR COUNTERS MAY HAVE NO POINT FURTHER THAN 4" FROM A RECEPTACLE. NEC210.52(C). A RECEPTACLE SHALL BE INSTALLED AT EACH WALL COUNTER SPACE THAT IS 12" OR MORE IN WIDTH PER NEC 210C.52(C)(1).
- A DEDICATED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED FOR ALL THE BATHROOMS PER NEC 210.11(C)(3). PROVIDE A WALL MOUNTED RECEPTACLE OUTLET WITHIN 36" OF THE BATHROOM OR POWDER ROOM LAVATORY PER NEC 210.52(D).
- ALL BRANCH CIRCUITS SUPPLYING OUTLETS IN ROOMS IDENTIFIED BY 2017 NEC 210.12(A) SHALL BE ARC FAULT PROTECTED.
- PROVIDE A DEDICATED 20 AMPERE BRANCH CIRCUIT TO THE LAUNDRY PER NEC 210.11(C)(2).
- ELECTRIC RANGES AND CLOTHES DRYERS SHALL BE SUPPLIED BY 4-WIRE GROUNDING TYPE CORD & PLUG ASSEMBLY PER NEC 250.134 & 138. RANGE & DRYER ENCLOSURES SHALL NOT BE GROUNDED BY CONNECTION TO THE GROUNDED CIRCUIT CONDUCTOR. (NEUTRAL)
- REFER TO ARCHITECTURAL AND/OR INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES, CEILING FANS, AND LIGHT SWITCHES.
- ALL BRANCH CIRCUITING INSIDE MECHANICAL ROOMS SHALL BE ROUTED CONCEALED IN WALLS. COORDINATE LOCATIONS OF HVAC DISCONNECT SWITCHES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.
- ALL SMOKE DETECTORS IN BEDROOMS SHALL BE CENTERED ON DOOR OPENINGS. ALL SMOKE DETECTORS IN HALLWAYS SHALL BE CENTERED IN HALLWAY & ON DORWAYS WHERE POSSIBLE. SMOKE DETECTORS NEAR BATHROOM DOORS SHALL BE LOCATED TO COMPLY WITH IBC 907.2.10.4.
- IN ALL AREAS SPECIFIED IN NEC 210.52, ALL 15-AMPERE AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES AS REQUIRED BY 2017 NEC 406.12.
- ALL RECEPTACLES LOCATED OUTDOORS SHALL BE UL LISTED AS "WEATHER RESISTANT" AND SHALL BE INSTALLED IN A WEATHER-PROOF ENCLOSURE. THE WEATHER-PROOF ENCLOSURE SHALL BE UL LISTED FOR USE IN WET LOCATIONS AND SHALL BE ABLE TO REMAIN WEATHER-PROOF WHETHER OR NOT THE CORD ATTACHMENT PLUG IS INSERTED PER NEC ART. 406.9(A) AND (B). THE OUTLET BOX HOOD SHALL BE LISTED FOR "EXTRA DUTY".
- COORDINATE EXACT LOCATION OF ALL BATHROOM CEILING FANS WITH HVAC CONTRACTOR AND HVAC PLANS PRIOR TO ROUGH-IN.
- WHEN INDICATED ON THE MECHANICAL UNIT PLANS AND/OR SCHEDULES, CONNECT CONDENSATE PUMPS A TO NEAREST RECEPTACLE CIRCUIT.
- PANEL BOARDS SHALL BE UNIQUELY IDENTIFIED IN THE FIELD. PROVIDE PERMANENT NAMEPLATE ON EACH PANEL.
- PROVIDE ONE STUD CAVITY SEPARATION BETWEEN ELECTRICAL AND LOW-VOLTAGE PANELS WHEN THEY ARE LOCATED ADJACENT TO EACH OTHER.
- BRANCH CIRCUIT WIRING SHALL BE TYPE "NM" CABLE UNLESS NOTED OTHERWISE.
- BRANCH CIRCUIT WIRING HVAC EQUIPMENT LOCATED ON THE EXTERIOR OF THE BUILDING SHALL BE SINGLE WIRES IN CONDUIT.
- ALL CONDUCTOR SIZES ARE BASED UPON EQUIPMENT TERMINATIONS RATED 75° C PER NEC ARTICLE 110.14(C)(1) AND 310.15. CONTRACTOR SHALL VERIFY TEMPERATURE RATING OF ALL EQUIPMENT TERMINATIONS AND DE-RATE WIRES BY INCREASING WIRE SIZE PER 60° C RATING.
- PROVIDE TELEPHONE OUTLETS AT LOCATIONS INDICATED IN ARCHITECTURAL PLANS AND INTERIOR DRAWINGS. PROVIDE LOW-VOLTAGE CABLES FROM EACH OUTLET TO EQUIPMENT PANEL.
- LIGHT FIXTURES LOCATED IN CLOTHES CLOSETS SHALL BE INSTALLED PER NEC ART. 410.16 FOR THE SPECIFIC TYPE OF LIGHT FIXTURE BEING INSTALLED. COORDINATE CLOSET FIXTURE TYPE WITH THE ARCHITECT.
- ALIGN LIGHT SWITCHES DIRECTLY ABOVE RECEPTACLES WHERE POSSIBLE.

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER MODEL NUMBER	VOLTAGE	LAMP TYPE	MOUNTING	DESCRIPTIONS	REMARKS
A	(7)(11)	120	TBD (12W MAX)	CEILING/RECESSED	6"x6" ROUND LED DOWNLIGHT	(2)(3)(4)
B	(7)(11)	120	TBD (12W MAX)	CEILING/RECESSED	6"x6" ROUND LED DOWNLIGHT	(2)(3)(4)(5)
C	(7)(11)	120	TBD (12W MAX)	CEILING/RECESSED	6"x6" ROUND LED DOWNLIGHT	(2)(3)(4)(12)
D	(7)(11)	120	TBD (3W/LF MAX)	CEILING/SURFACE	LED TAPE LIGHT	(2)(3)(4)(12)
E	(7)(11)	120	TBD	CEILING/SURFACE	1"x4" LED STRIP	(2)(3)(4)
F	(7)(11)	120	TBD (12W MAX)	CEILING/RECESSED	6"x6" SQUARE LED DOWNLIGHT	(2)(3)(4)
G	(7)(11)	120	TBD (12W MAX)	CEILING/RECESSED	2"x2" SQUARE LED WALL WASHER	(2)(3)(4)
EZ.1	(7)(11)	120	(1) 60W LED	WALL/SURFACE	DECORATIVE WALL SCNCE	(2)(3)(4)(5)
Z.1	(7)(11)	120	(1) 41.6W LED	CEILING/CHANDELIER	DECORATIVE CHANDELIER	(2)(3)(4)
Z.2	(7)(11)	120	(1) 27W LED	CEILING/SURFACE	DECORATIVE SEMI-FLUSH PENDANT	(2)(3)(4)
Z.3	(7)(11)	120	(1) 6W LED	CEILING/PENDANT	DECORATIVE PENDANT LIGHT	(2)(3)(4)(12)
Z.4	(7)(11)	120	(1) 100W LED	CEILING/CHANDELIER	DECORATIVE RING LIGHT CHANDELIER	(2)(3)(4)
Z.6	(7)(11)	120	(1) 48W LED	CEILING/CHANDELIER	DECORATIVE CHANDELIER	(2)(3)(4)
Z.7	(7)(11)	120	(1) 27W LED	WALL/SURFACE	DECORATIVE WALL SCNCE	(2)(3)(4)
Z.8	(7)(11)	120	(1) 40W LED	CEILING/PENDANT	DECORATIVE PENDANT LIGHT	(2)(3)(4)
Z.9	(7)(11)	120	(1) 60W LED	WALL/SURFACE	DECORATIVE WALL SCNCE	(2)(3)(4)(12)
Z.10	(7)(11)	120	(1) 14W LED	WALL/SURFACE	DECORATIVE VANITY LIGHT	(2)(3)(4)
Z.11	(7)(11)	120	(1) 7W LED	CEILING/PENDANT	DECORATIVE PENDANT LIGHT	(2)(3)(4)
Z.12A	(7)(11)	120	(1) 3.25W LED	WALL/SURFACE	DECORATIVE WALL SCNCE	(2)(3)(4)(12)
Z.12B	(7)(11)	120	(1) 10W LED	WALL/SURFACE	DECORATIVE WALL SCNCE	(2)(3)(4)(12)
Z.13	(7)(11)	120	(1) 20W LED	CEILING/CHANDELIER	DECORATIVE CHANDELIER	(2)(3)(4)(12)
Z.14	(7)(11)	120	(1) 5W LED	GROUND	LANDSCAPE LIGHT	(2)(3)(4)(5)
Z.15	(7)(11)	120	TBD (3W/LF MAX)	FLOOR/RECESSED	LED TAPE LIGHT	(2)(3)(4)(5)

KEY NOTES:

- AIM FIXTURE AS DIRECTED BY INTERIOR DESIGNER.
- VERIFY OPTICS PATTERN WITH INTERIOR DESIGNER.
- VERIFY FINISH MATERIAL AND/OR COLOR WITH INTERIOR DESIGNER.
- FIXTURE SHALL BE "IC" LISTED.
- FIXTURE SHALL BE UL LISTED FOR WET LOCATION (IP65 MINIMUM).
- FURNISH ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM.
- FIXTURE SELECTED BY INTERIOR DESIGNER. REFER QUESTIONS TO INTERIOR DESIGNER.
- JUNCTION BOX SHALL BE UL LISTED TO SUSPENDED FIXTURES. BRACE TO STRUCTURE AS REQUIRED FOR WEIGHT OF FIXTURE.
- SEE INTERIOR ELEVATIONS FOR EXACT LOCATION.
- SEE EXTERIOR ELEVATIONS FOR EXACT LOCATION.
- CONFIRM SPEC WITH INTERIOR DESIGNER PRIOR TO ORDERING.
- FIXTURE SHALL BE UL LISTED FOR DAMP LOCATION.

HVAC & PLUMBING EQUIPMENT SCHEDULE

UNIT NUMBER	EQUIPMENT DESCRIPTION	HP	KVA	KW	MCA/MOCP	VOLTS/Ø	(See Note 1) DISC SW	(See Note 2) STARTER FURNISHED WITH EQUIPMENT	(See Notes 3, 4, 5) BRANCH CIRCUIT**
(Cu) 1-4	SPLIT SYSTEM HEAT PUMP - CONDENSING UNIT	-	-	-	33.2/50	240/1	30/2	FURNISHED WITH EQUIPMENT	(2)#6, (1)#10 GND, 3/4" C.
(FC) 1-4	SPLIT SYSTEM HEAT PUMP - FAN COIL	3/4	-	-	6.9/-	240/1	30/2	FURNISHED WITH EQUIPMENT	(2)#12, (1)#12 GND, NM
(Cu) 5	SPLIT SYSTEM HEAT PUMP - CONDENSING UNIT	-	-	-	14.5/25	240/1	30/2	FURNISHED WITH EQUIPMENT	(2)#10, (1)#10 GND, 3/4" C.
(FC) 5	SPLIT SYSTEM HEAT PUMP - FAN COIL	1/2	-	-	4.9/-	240/1	30/2	FURNISHED WITH EQUIPMENT	(2)#12, (1)#12 GND, NM
(EF) 1-2	EXHAUST FAN	-	-	-	< 1A	120/1	\$M	\$M	(2)#12, (1)#12 GND, NM
(SW) 1-2	INSTANTANEOUS GAS WATER HEATER	-	-	-	4A	120/1	\$L	N/A	(2)#12, (1)#12 GND, NM

- NOTES**
- NEMA 3R WHERE OUTSIDE. PROVIDE FUSING PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
 - ALL MOTOR STARTERS LOCATED OUTDOORS SHALL BE PROVIDED WITH TEMPERATURE COMPENSATED ELECTRONIC OVERLOADS IN LIEU OF BIMETALLIC OVERLOAD ELEMENTS.
 - ALL CONDUCTORS FEEDING HVAC EQUIPMENT SHALL BE COPPER WITH INSULATION RATED FOR 90 DEGREES C.
 - WIRE SIZE INDICATED BASED UPON TABLE 310.15(B)(16) NOT DE-RATED. ALL CONDUCTORS SERVING OUTDOOR EQUIPMENT AND/OR ROUTED OUTDOORS, SHALL BE DE-RATED FOR 117°-122°F (NEC TABLE 310.15(B)(2)(A)). IN ADDITION, CONDUCTORS ON ROOF SHALL BE FURTHER DE-RATED PER NEC TABLE 310.15(B)(3)(C).
 - E.C. SHALL PROVIDE ALL LINE VOLTAGE WRING BETWEEN FAN COIL AND CONDENSING UNIT. #12(CU), 1/2" CONDUIT. NO EXCEPTIONS. COORDINATE LINE VOLTAGE CONTROL WIRING REQUIREMENTS WITH HVAC CONTRACTOR.

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- KEYED NOTES:**
1. NEW SERVICE ENTRANCE. SEE ONE-LINE DIAGRAM ON SHEET E4.0.
 2. NEW UNDERGROUND SECONDARY PER SULPHUR SPRINGS VALLEY ELECTRIC COOP CONSTRUCTION GUIDELINES.
 3. NEW PHONE/INTERNET/CABLE BOX.
 4. NEW (1) 1" E.C. FOR PHONE/INTERNET/CABLE SERVICE.

- GENERAL SITE PLAN NOTES:**
1. THE SIZE, LOCATION AND DEPTH OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN AND ASSOCIATED DETAILS ARE BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IN THE WORK AREA BEFORE DIGGING AND SHALL TAKE NECESSARY MEASURES TO PROTECT HIMSELF, HIS PERSONNEL, AND THE PUBLIC FROM HARM DUE TO CONTACT WITH UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS. CONTACT AN UNDERGROUND UTILITIES LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO DIGGING TO SPOT UTILITIES. NOTIFY THE ARCHITECT, ENGINEER, AND OWNER OF ALL INCORRECTLY CHARTED SITE UTILITIES ENCOUNTERED DURING THE COURSE OF THE WORK.
 2. ALL UNDERGROUND CONDUITS SHALL BE MINIMUM 3/4" HOMERUNS SHALL BE MINIMUM 1". ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC-DB, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. ALL UNDERGROUND WIRING SHALL BE MINIMUM #10, UNLESS OTHERWISE NOTED.
 3. REFER TO PANEL SCHEDULES, LIGHTING FIXTURE SCHEDULE, SITE PHOTOMETRIC DRAWING, AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE LIGHTING.
 4. COORDINATE LOCATIONS OF ALL SITE LUMINAIRES AND POLES WITH CIVIL AND LANDSCAPE DRAWINGS PRIOR TO RUSH IN.
 5. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION REGARDING UTILITY SERVICE REQUIREMENTS.
 6. REFER TO THE UTILITY SITE-SPECIFIC SHOP DRAWINGS FOR TRENCH ROUTING, CONDUIT SIZES, AND QUANTITIES FOR INCOMING ELECTRIC, PHONE, DATA, AND CABLE TV SERVICES.
 7. ELECTRICAL AND TELECOMMUNICATIONS SERVICE ROUTING SHOWN ON THE ELECTRICAL SITE PLAN ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN.
 8. SITE PLAN INDICATES GENERAL LOCATIONS OF UTILITY-OWNED, SWITCHGEAR, AND PRIMARY CABLE ROUTING BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. PRIOR TO RUSH IN, VERIFY THE ACTUAL ROUTING OF UTILITY FEEDERS, PLACEMENT OF UTILITY FACILITIES AND EQUIPMENT WITH THE SITE-SPECIFIC SHOP DRAWINGS PREPARED BY THE ELECTRICAL UTILITY COMPANY. COORDINATE UTILITY REQUIREMENTS WITH THE GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
 9. UNLESS OTHERWISE DIRECTED BY THE UTILITY COMPANY, PROVIDE MINIMUM 24" COMPACTED COVER OVER UTILITY-OWNED SECONDARY SERVICE ENTRANCE CABLES. PROVIDE MINIMUM 36" COVER OVER UTILITY-OWNED PRIMARY CABLES.
 10. UNLESS DIRECTED OTHERWISE BY THE SERVING UTILITY, ALL UNDERGROUND CROSSINGS SHALL BE INSTALLED SO THAT THERE IS AT LEAST 12" CLEAR VERTICAL SEPARATION BETWEEN THE ELECTRIC UTILITY'S UNDERGROUND FACILITIES AND THE UNDERGROUND CONSTRUCTION BEING CROSSED.
 11. WHEN NATURAL GAS FACILITIES ARE CO-LOCATED IN THE SAME TRENCH (JOINT-USE) WITH THE ELECTRIC UTILITY-OWNED FACILITIES, THE NATURAL GAS LINES SHALL BE LOCATED ABOVE THE ELECTRIC UTILITY FACILITIES AND SHALL BE INSTALLED WITH A MINIMUM OF 12" CLEAR VERTICAL SEPARATION. IN ADDITION, NATURAL-GAS LINES SHALL MAINTAIN A MINIMUM OF 12" HORIZONTAL SEPARATION FROM THE OUTSIDE EDGE OF ALL CONCRETE PADS SUPPORTING ELECTRICAL EQUIPMENT AND THE CLOSEST EDGE OF THE NATURAL-GAS LINES. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
 12. WHERE UNDERGROUND ELECTRIC UTILITY AND NATURAL-GAS UTILITY FACILITIES ARE IN SEPARATE PARALLEL TRENCHES, A MINIMUM 24" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE ELECTRIC AND NATURAL-GAS FACILITIES. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
 13. WHERE TELEPHONE AND/OR CATV CABLES ARE CO-LOCATED IN THE SAME TRENCH WITH ELECTRIC UTILITY-OWNED FACILITIES, THE TELEPHONE AND CATV LINES SHALL BE LOCATED ABOVE THE ELECTRIC LINES AND SHALL BE INSTALLED WITH MINIMUM 6" CLEAR VERTICAL SEPARATION. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
 14. WET UTILITIES SHALL NOT BE RUN IN THE SAME TRENCH AS ELECTRIC, TELEPHONE, OR CATV UTILITIES. WHERE ELECTRIC TELEPHONE, OR CATV CROSS UNDERGROUND WET UTILITY LINES, A MINIMUM 24" VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WET UTILITY LINES PASSING BELOW. VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION STANDARDS.
 15. TRENCH BOTTOMS SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES. WHEN NECESSARY, PROVIDE SUFFICIENT QUANTITIES OF BEDDING MATERIAL TO PROVIDE THE REQUIRED SURFACE. BEDDING MATERIAL SHALL BE AS SPECIFIED BY THE UTILITY COMPANY.
 16. WHEN CHANGING ELEVATIONS IN STRAIGHT CONDUIT RUNS, THE ELEVATION OF THE TRENCH BOTTOM SHALL NOT EXCEED 1'-0" RISE IN 12'-0" HORIZONTAL RUN.
 17. PROVIDE ALL TRENCHING AND BACKFILL, EQUIPMENT PADS, AND FOUNDATIONS FOR UTILITY-OWNED EQUIPMENT PER UTILITY STANDARDS AND SPECIFICATIONS.
 18. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.

ELECTRICAL SITE PLAN
1"=20'-0"



PROJECT PHASE

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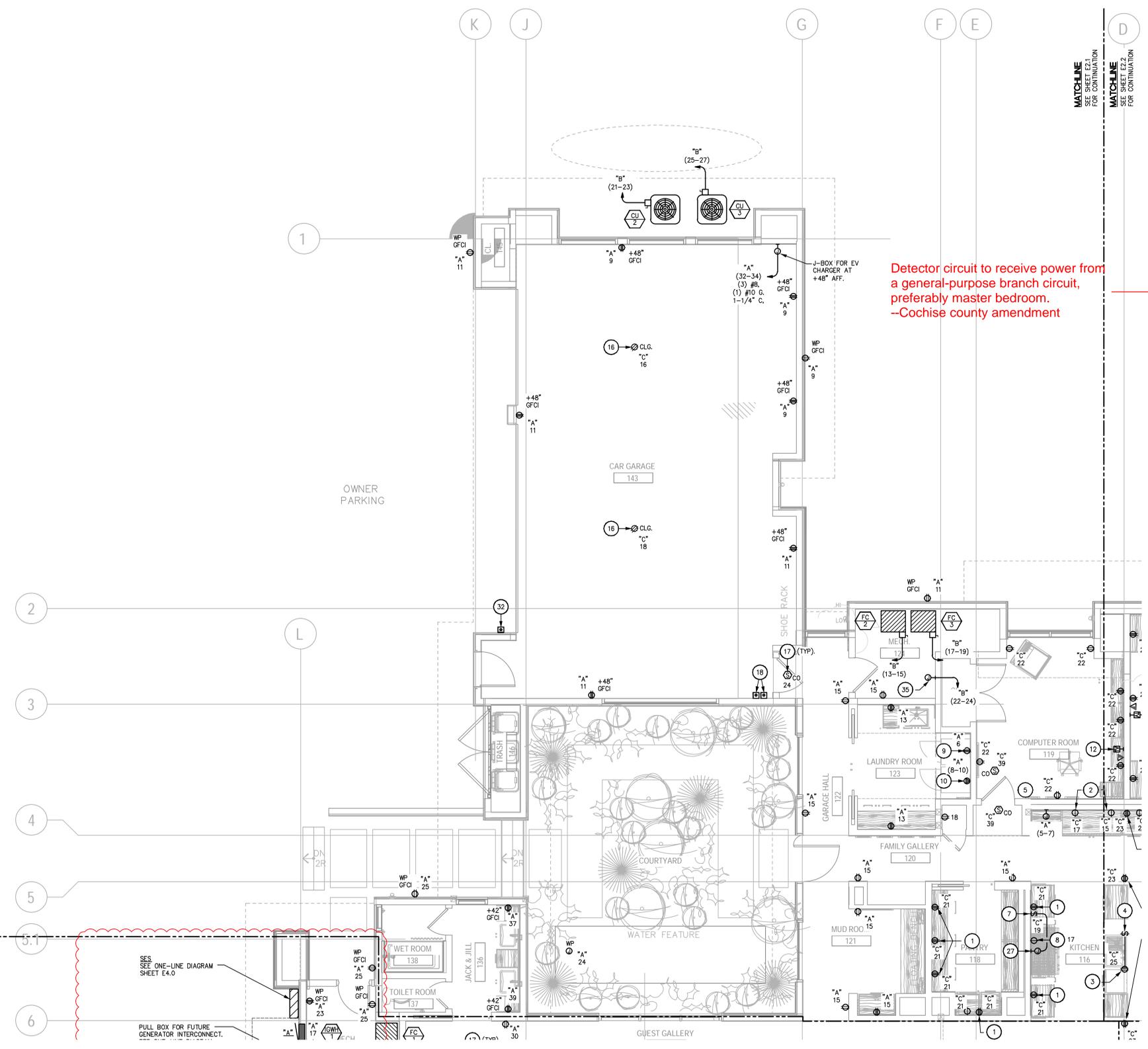
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 - RECEPTACLES MOUNTED AT +48" A.F.F. FOR REFRIGERATOR, WINE REFRIGERATOR OR FREEZER.
 - HALF-SWITCHED GFCI PROTECTED RECEPTACLE MOUNTED BELOW SINK FOR DISHWASHER AND GARBAGE DISPOSAL.
 - TOGGLE SWITCH FOR GARBAGE DISPOSAL. MOUNT SWITCH HORIZONTALLY IN FACE OF MILLWORK. COORDINATE WITH MILLWORK FABRICATOR.
 - JUNCTION BOX FOR WALL MOUNTED OVEN. (3) #6, (1) #10 GND. VERIFY MOUNTING LOCATION WITH APPLIANCE INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
 - CIRCUIT UP TO BATHROOM LIGHTS. SEE LIGHTING PLANS FOR CONTINUATION.
 - SWITCH FOR EXHAUST HOOD. COMBINE UNDER MULTI-GANG FACE PLATE WITH ADJACENT SMALL APPLIANCE OUTLET.
 - GFCI PROTECTED OUTLET FOR GAS RANGE CONTROLS. ROUGH-IN PER MANUFACTURER INSTALLATION GUIDE.
 - GFCI PROTECTED RECEPTACLE FOR WASHING MACHINE. SEE ARCHITECT AND INTERIOR ELEVATIONS FOR MOUNTING.
 - NEMA 10-30R OUTLET FOR DRYER. (3) #10, (1) #10 GND. SEE ARCHITECT AND INTERIOR ELEVATIONS FOR MOUNTING.
 - GFCI PROTECTED RECEPTACLE FOR LAUNDRY ROOM. MOUNT ABOVE COUNTERTOP.
 - OUTLETS FOR T.V. VERIFY ROUGH-IN LOCATIONS WITH ARCHITECT'S INTERIOR ELEVATIONS.
 - DISCONNECT SWITCH FOR FAN COIL. MOUNT TO MAINTAIN ALL NEC CLEARANCES.
 - FURNISH "BOCCI" STYLE OUTLETS. FACEPLATE COLORS/MATERIALS TO MATCH WALL OR MILLWORK. COORDINATE WITH INTERIORS.
 - NOT USED.
 - GFCI PROTECTED RECEPTACLE AT CEILING FOR GARAGE DOOR OPENER.
 - LINE-VOLTAGE SMOKE (SMOKE/CO2) DETECTOR. ALL DETECTORS SHALL ALARM TOGETHER. HALLWAY DEVICES SHALL BE COMBINATION SMOKE/CO2 DETECTOR. MOUNT AT HIGHEST CEILING AND CENTER ON DOOR.
 - CONTROLS FOR GARAGE DOOR OPENER. MOUNT AT +48" A.F.F.
 - JUNCTION BOX FOR FIREPLACE IGNITER. COORDINATE ROUGH-IN LOCATION WITH FIREPLACE INSTALLER.
 - SWITCH FOR FIREPLACE CONTROLS. MOUNT TOP OF BOX AT +48" A.F.F. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
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 - WEATHERPROOF CONTROLS FOR FIREPLACE.
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 - ELECTRIC FIREPLACE.
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 - STUB FOR FUTURE COURT LIGHTING.

GENERAL NOTES:

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Detector circuit to receive power from a general-purpose branch circuit, preferably master bedroom.
--Cochise county amendment

ELECTRICAL POWER PLAN
1/4"=1'-0"

REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION

MATCHLINE SEE SHEET E2.1 FOR CONTINUATION
MATCHLINE SEE SHEET E2.4 FOR CONTINUATION

SEE ONE-LINE DIAGRAM SHEET E4.0
PULL BOX FOR FUTURE GENERATOR INTERCONNECT.



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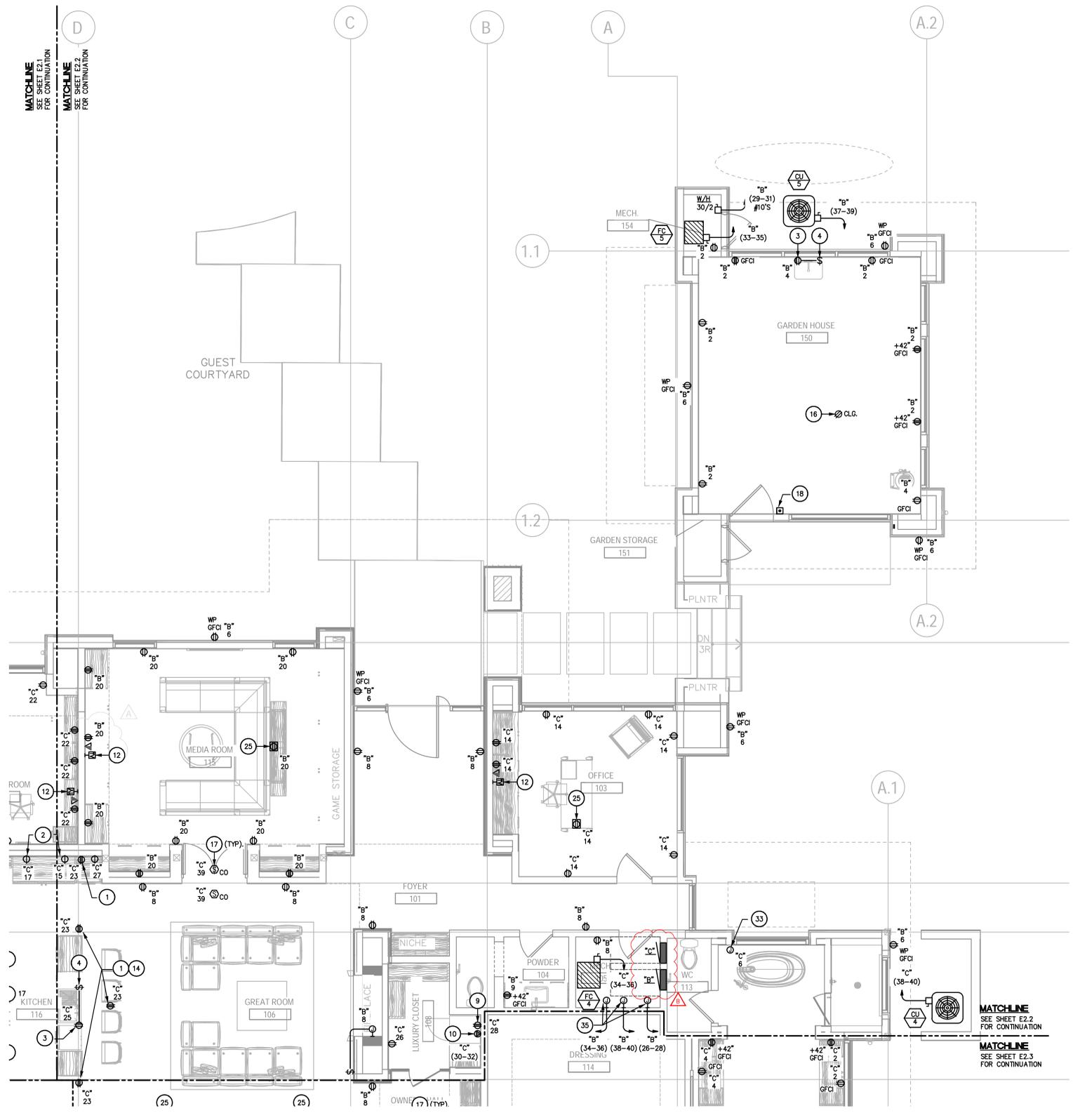
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ELECTRICAL POWER PLAN
1/4"=1'-0"

△ REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION



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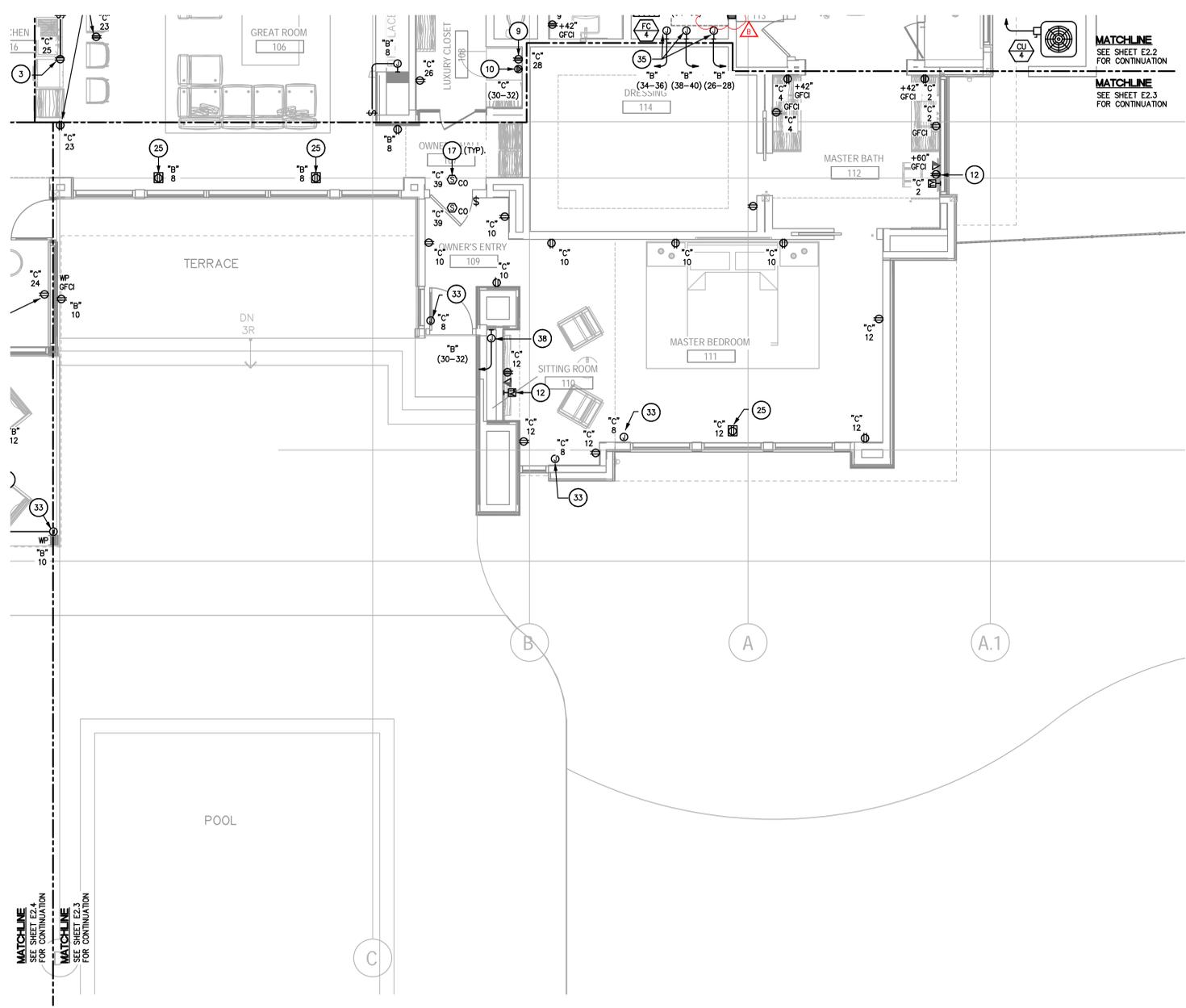
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ELECTRICAL POWER PLAN
1/4"=1'-0"

REVISION: REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION



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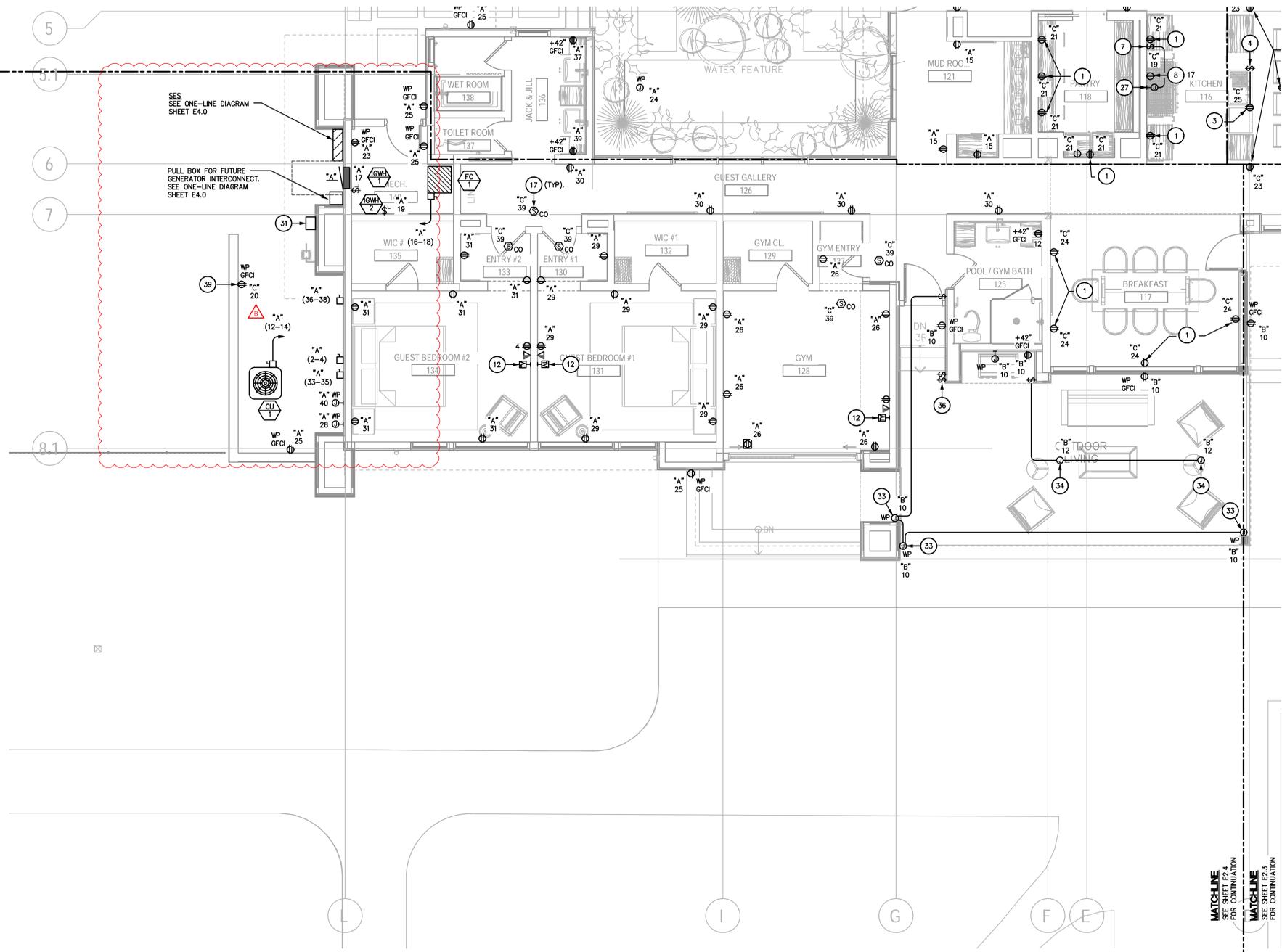
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MATCHLINE
SEE SHEET E2.1
FOR CONTINUATION

MATCHLINE
SEE SHEET E2.4
FOR CONTINUATION

SEE ONE-LINE DIAGRAM
SHEET E4.0

PULL BOX FOR FUTURE
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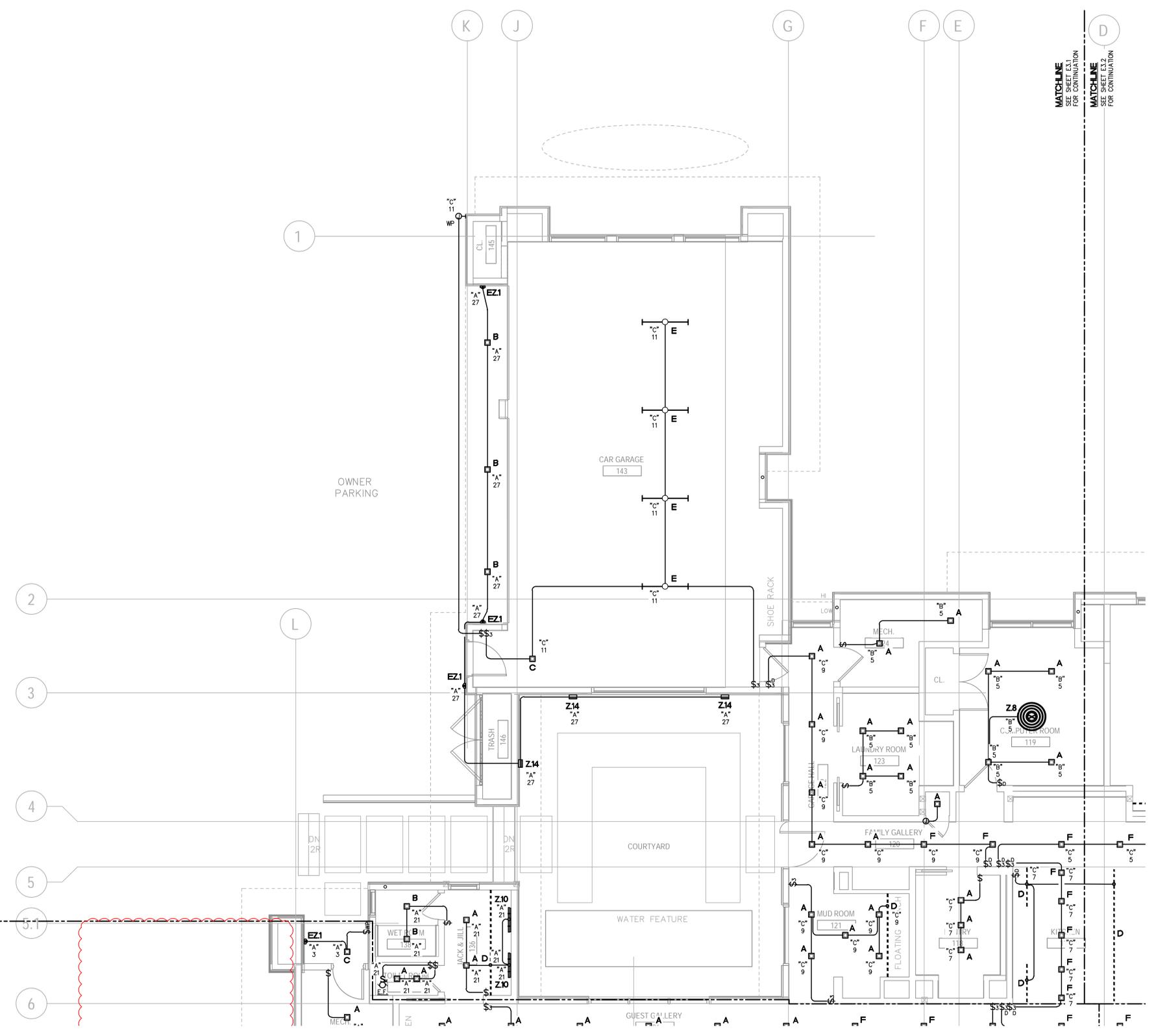
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PARCEL: 105-21-001M, E LOMA LN.
SIERRA VISTA (COCHISE COUNTY), AZ 85650
ELECTRICAL LIGHTING PLAN

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SCALE	AS SHOWN
JOB NO.	2137
SHEET	E3.1



MATCHLINE
SEE SHEET E3.1
FOR CONTINUATION

MATCHLINE
SEE SHEET E3.4
FOR CONTINUATION

ELECTRICAL LIGHTING PLAN
1/4"=1'-0"

REVISION
REVISE CIRCUITING FOR
FUTURE GENERATOR
CONSIDERATION



PETERSON ASSOCIATES
CONSULTING ENGINEERS, INC.

7201 N. Dreamy Draw Drive
Suite 200
Phoenix, Arizona 85020
(602) 942-6118
Facsimile (602) 943-2507
www.peterson.com
Job No. 237350

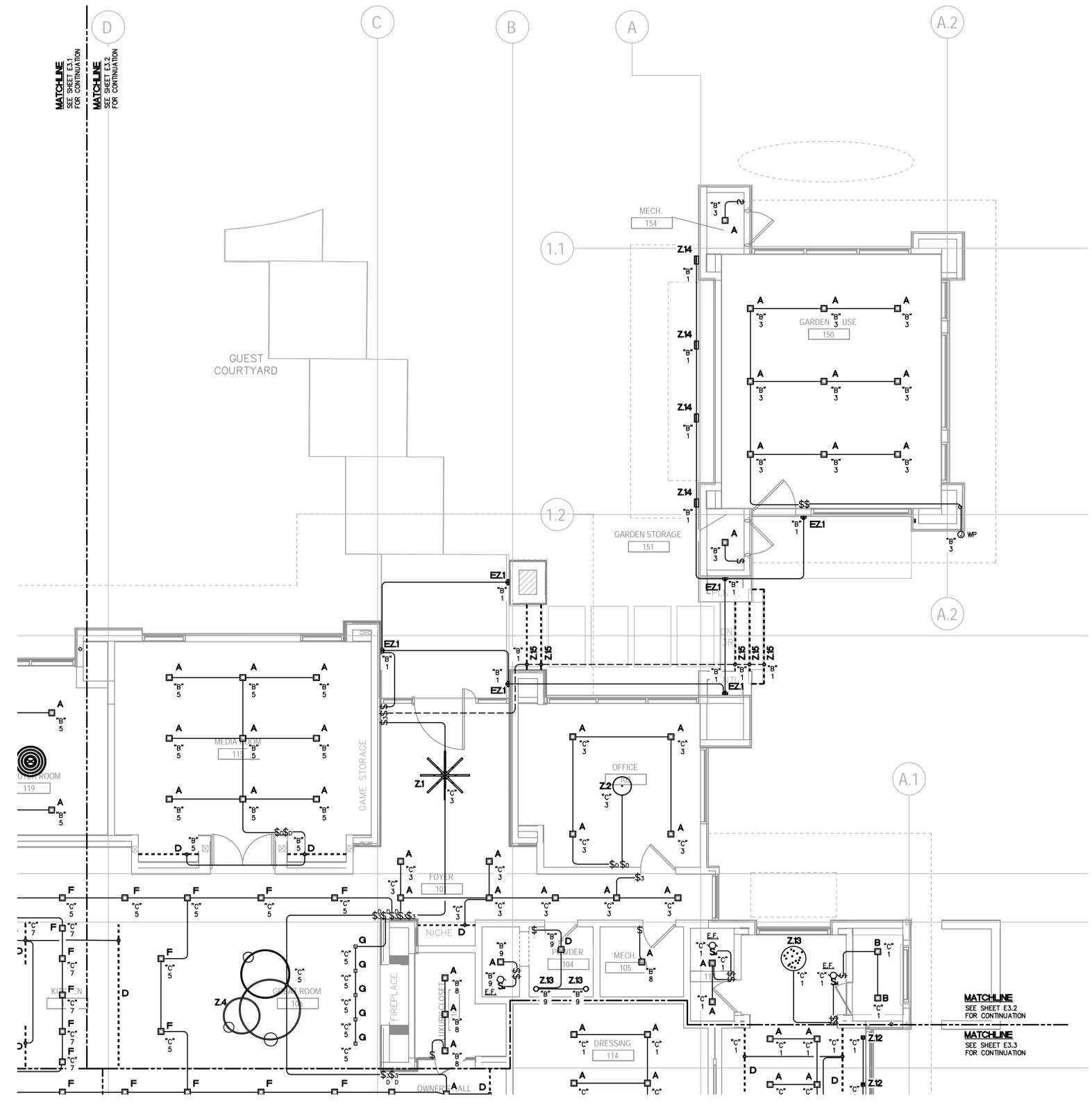
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GENERAL NOTES:
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ELECTRICAL LIGHTING PLAN
1/4"=1'-0"

REVISOR: [Signature]
DATE: 05/21/2024
REVISION: REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION

PROJECT PHASE

<input type="radio"/>	CONSTRUCTION DOCUMENTS
<input type="radio"/>	JURISDICTION REVIEW
<input type="radio"/>	ISSUE FOR BID SET
<input type="radio"/>	ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
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ELECTRICAL LIGHTING PLAN



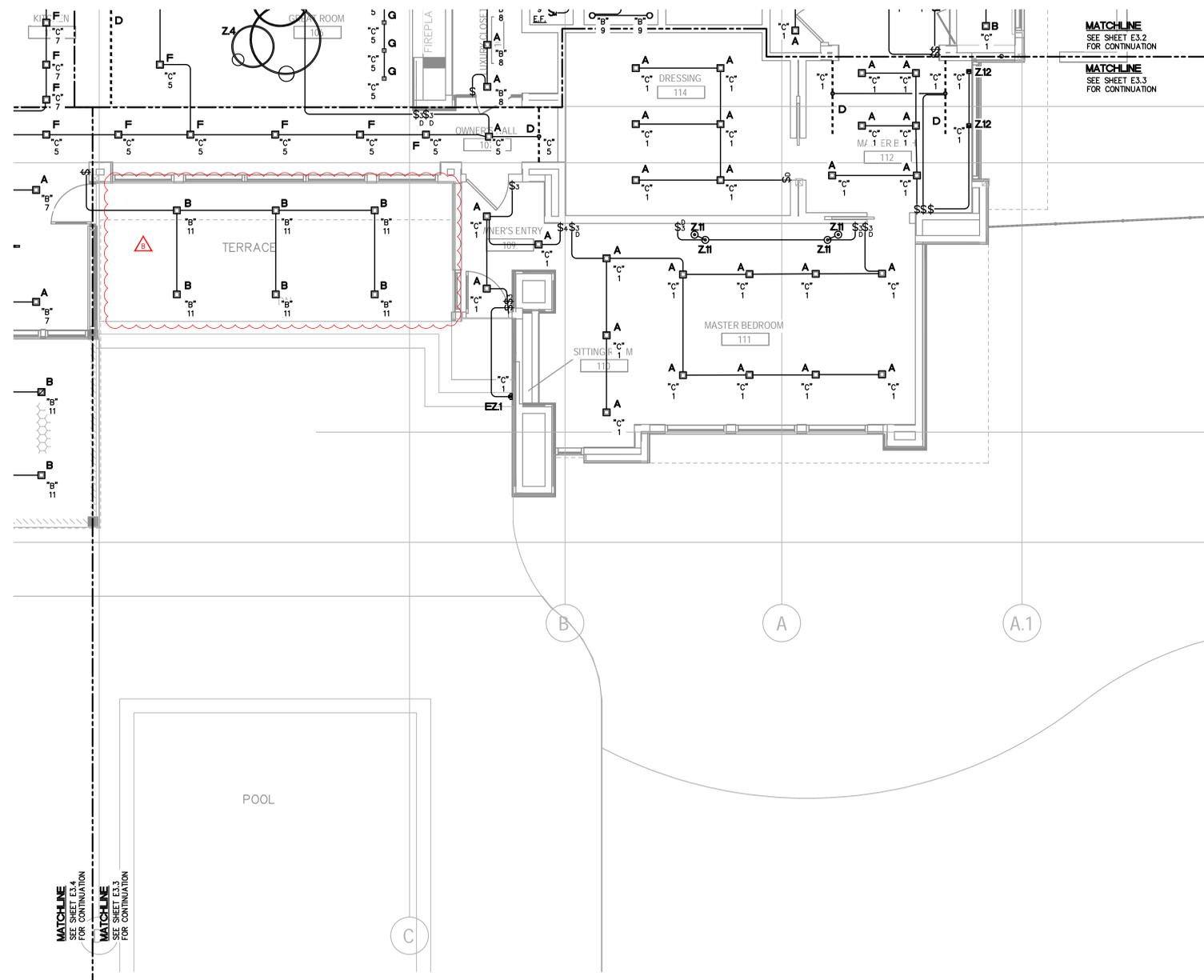
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(602) 943-6116
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JOB NO.	2137
SHEET	E3.2

E3.2

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ELECTRICAL LIGHTING PLAN
 1/4"=1'-0"

A REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION

MATCHLINE
 SEE SHEET E3.4
 FOR CONTINUATION

MATCHLINE
 SEE SHEET E3.3
 FOR CONTINUATION

MATCHLINE
 SEE SHEET E3.2
 FOR CONTINUATION

MATCHLINE
 SEE SHEET E3.3
 FOR CONTINUATION



PROJECT PHASE

<input type="radio"/>	CONSTRUCTION DOCUMENTS
<input type="radio"/>	JURISDICTION REVIEW
<input type="radio"/>	ISSUE FOR BID SET
<input type="radio"/>	ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
B	OWNER REVISIONS	05.21.2023

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ELECTRICAL LIGHTING PLAN



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SHEET	E3.3

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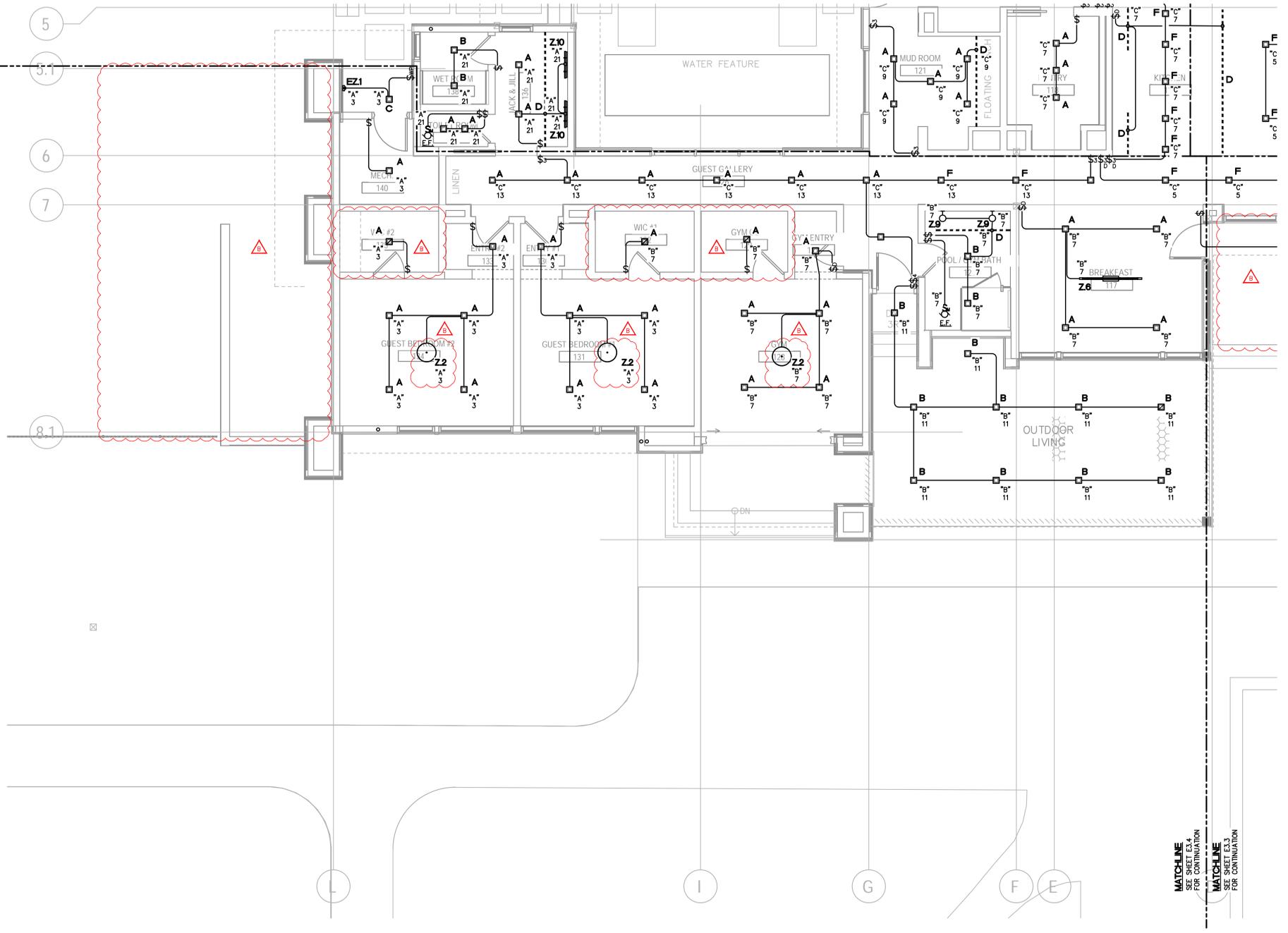
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MATCHLINE
SEE SHEET E3.1
FOR CONTINUATION

MATCHLINE
SEE SHEET E3.4
FOR CONTINUATION



ELECTRICAL LIGHTING PLAN
1/4"=1'-0"

△ REVISE CIRCUITING FOR FUTURE GENERATOR CONSIDERATION

MATCHLINE
SEE SHEET E3.4
FOR CONTINUATION

MATCHLINE
SEE SHEET E3.3
FOR CONTINUATION

PROJECT PHASE

<input type="radio"/>	CONSTRUCTION DOCUMENTS
<input type="radio"/>	JURISDICTION REVIEW
<input type="radio"/>	ISSUE FOR BID SET
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REVISIONS

NO.	DESCRIPTION	DATE
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ELECTRICAL LIGHTING PLAN



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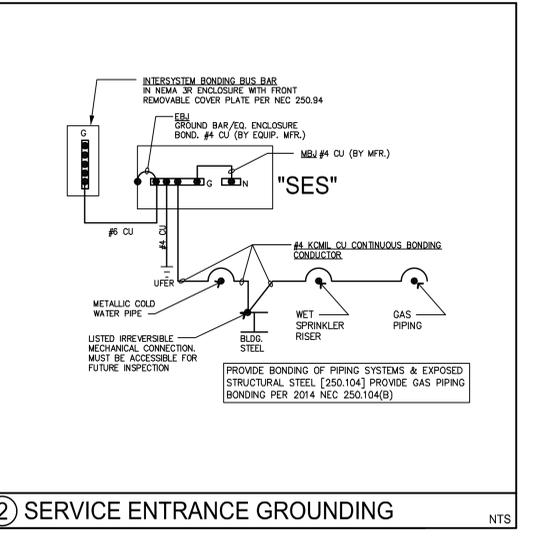


PROJECT PHASE	
<input type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	JURISDICTION REVIEW
<input type="checkbox"/>	ISSUE FOR BID SET
<input type="checkbox"/>	ISSUE FOR CONSTRUCTION

REVISIONS		
NO.	DESCRIPTION	DATE
B	OWNER REVISIONS	05.21.2025

PANEL SCHEDULE				"A"		Status: NEW	
IG Bus: NO	Cabinet: NEMA 1	Feed Thru: NO	Service Rated: YES	Voltage: 120/240V-1Ph-3W		Bracing: 22,000 A.I.C.	
Type: PLUG-IN	Mounting: SURFACE	Mains: 200A MLO					
Use and/or Area Served	C/B	Cir. No.	Volts-Ampere		Cir. No.	C/B	Use and/or Area Served
			Phase A	Phase B			
RECEPT - WEST EXTERIOR	20/1	1			2	20/2	POOL PUMP
LIGHTING - GUEST BEDROOMS	15/1	3			4		
DOUBLE OVEN	50/2	7			6	20/1	WASHER
GFCI RECEPT - GARAGE	20/1	9			8	30/2	DRYER
GFCI RECEPT - GARAGE	20/1	11			10		
AFCI RECEPT - LAUNDRY 123	20/1	13			12	50/2	CU - 1
AFCI RECEPT - GARAGE HALL, MUD ROOM, FAMILY GALLERY	15/1	15			14		
GFCI IGWH - 1	20/1	17			16	15/2	FC - 1
GFCI IGWH - 2	20/1	19			18		
LIGHTING - GUEST BATHROOM AREA	15/1	21			20	-	SPACE
GFCI WATER SOFTENER	20/1	23			22	-	SPACE
GFCI RECEPTS - EXTERIOR	20/1	25			24	20/1	COURTYARD WATER FEATURE
E LTG - EXTERIOR	15/1	27			26	15/1	RECEPT - GYM
AFCI RECEPT - GUEST BEDROOM #1	15/1	29			28	20/1	POOL HEATER CONTROLS
AFCI RECEPT - GUEST BEDROOM #2	15/1	31			30	15/1	RECEPT - GUEST GALLERY
GFP SPA PUMP	20/2	35			32	50/2	EV CHARGER
GFCI RECEPT - GUEST BATHROOM	20/1	37			34		
GFCI RECEPT - GUEST BATHROOM	20/1	39			36	20/2	POOL PUMP
					38		
					40	20/1	POOL LTG
Total Load per Phase							

PANEL SCHEDULE				"A"		Status: NEW	
IG Bus: NO	Cabinet: NEMA 1	Feed Thru: NO	Service Rated: YES	Voltage: 120/240V-1Ph-3W		Bracing: 22,000 A.I.C.	
Type: PLUG-IN	Mounting: SURFACE	Mains: 200A MLO					
Use and/or Area Served	C/B	Cir. No.	Volts-Ampere		Cir. No.	C/B	Use and/or Area Served
			Phase A	Phase B			
RECEPT - WEST EXTERIOR	20/1	1			2	20/2	POOL PUMP
LIGHTING - GUEST BEDROOMS	15/1	3			4		
DOUBLE OVEN	50/2	7			6	20/1	WASHER
GFCI RECEPT - GARAGE	20/1	9			8	30/2	DRYER
GFCI RECEPT - GARAGE	20/1	11			10		
AFCI RECEPT - LAUNDRY 123	20/1	13			12	50/2	CU - 1
AFCI RECEPT - GARAGE HALL, MUD ROOM, FAMILY GALLERY	15/1	15			14		
GFCI IGWH - 1	20/1	17			16	15/2	FC - 1
GFCI IGWH - 2	20/1	19			18		
LIGHTING - GUEST BATHROOM AREA	15/1	21			20	-	SPACE
GFCI WATER SOFTENER	20/1	23			22	-	SPACE
GFCI RECEPTS - EXTERIOR	20/1	25			24	20/1	COURTYARD WATER FEATURE
E LTG - EXTERIOR	15/1	27			26	15/1	RECEPT - GYM
AFCI RECEPT - GUEST BEDROOM #1	15/1	29			28	20/1	POOL HEATER CONTROLS
AFCI RECEPT - GUEST BEDROOM #2	15/1	31			30	15/1	RECEPT - GUEST GALLERY
GFP SPA PUMP	20/2	35			32	50/2	EV CHARGER
GFCI RECEPT - GUEST BATHROOM	20/1	37			34		
GFCI RECEPT - GUEST BATHROOM	20/1	39			36	20/2	POOL PUMP
					38		
					40	20/1	POOL LTG
Total Load per Phase							

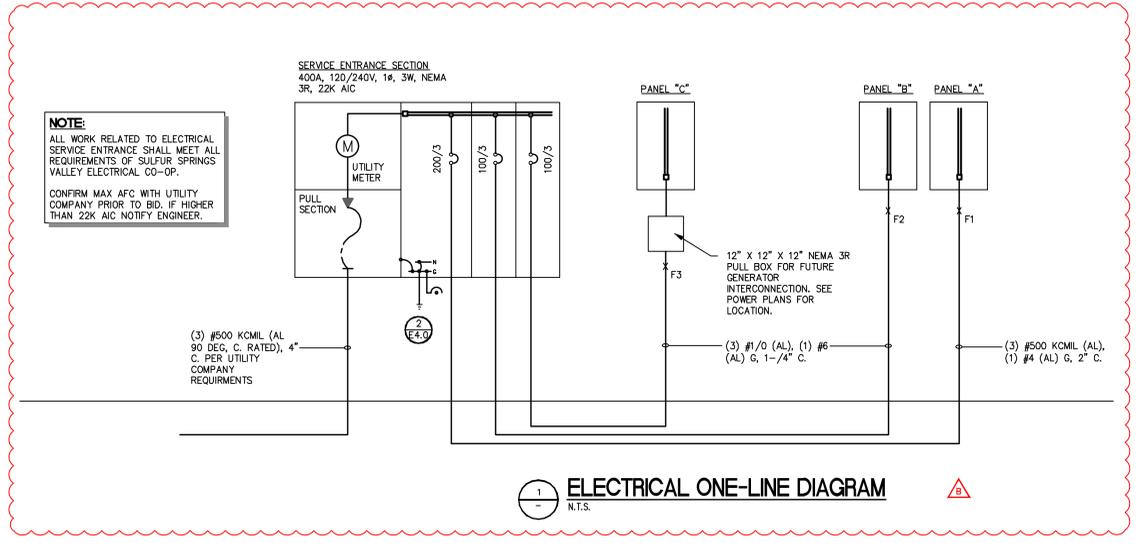


PANEL SCHEDULE				"C"		Status: NEW	
IG Bus: NO	Cabinet: NEMA 1	Feed Thru: NO	Service Rated: NO	Voltage: 120/240V-1Ph-3W		Bracing: 10,000 A.I.C.	
Type: PLUG-IN	Mounting: FLUSH	Mains: 100A MLO					
Use and/or Area Served	C/B	Cir. No.	Volts-Ampere		Cir. No.	C/B	Use and/or Area Served
			Phase A	Phase B			
LIGHTING - MASTER BATH & BEDROOM	15/1	1			2	20/1	RECEPT - MASTER BATH
LIGHTING - OFFICE & FOYER	15/1	3			4	20/1	RECEPT - MASTER BATH
LIGHTING - GREAT ROOM	15/1	5			6	20/1	MOTORIZED SHADES - MASTER BATH
LIGHTING - KITCHEN & PANTRY	15/1	7			8	20/1	MOTORIZED SHADES - MASTER BEDROOM & OWNER'S ENTRY
LIGHTING - FAMILY GALLERY, MUD ROOM, GARAGE HALLWAY	20/1	9			10	15/1	RECEPT - MASTER BEDROOM & OWNER'S ENTRY
LIGHTING - GARAGE	20/1	11			12	15/1	RECEPT - MASTER BEDROOM
LIGHTING - GUEST GALLERY	15/1	13			14	15/1	RECEPT - OFFICE
RECEPT - REFRIGERATOR	20/1	15			16	20/1	RECEPT - GARAGE DOOR OPENER
RECEPT - FREEZER	20/1	17			18	20/1	RECEPT - GARAGE DOOR OPENER
RECEPT - COOKTOP	20/1	19			20	20/1	RECEPT - IRRIGATION CONTROLLER
GFCI RECEPT - SMALL APPLIANCE (KITCHEN)	20/1	21			22	20/1	RECEPT - COMPUTER ROOM
GFCI RECEPT - SMALL APPLIANCE (KITCHEN)	20/1	23			24	20/1	RECEPT - BREAKFAST 117
AFCI RECEPT - DISHWASHER/DISPOSER	20/1	25			26	20/1	RECEPT - LAUNDRY 108
AFCI RECEPT - MICROWAVE	20/1	27			28	20/1	RECEPT - WASHER
SPACE	-	29			30	30/2	RECEPT - DRYER
SPACE	-	31			32		
SPACE	-	33			34	15/2	FC-4
SPACE	-	35			36		
SPACE	-	37			38	50/2	CU-4
AFCI SMOKE/CO DETECTORS	15/1	39			40		
Total Load per Phase							

LOAD CALCULATION	
Lighting and Power	3 X 5515 SF = 16,545 VA
Small Appliance Circuits	5 X 1500 VA = 7,500 VA
Washer	2 X 1500 VA = 3,000 VA
Dryer	2 X 5000 VA = 10,000 VA
Oven (Double Wall)	1 X 8000 VA = 8,000 VA
Microwave	1 X 1500 VA = 1,500 VA
Dishwasher/Disposal	1 X 1500 VA = 1,500 VA
Water Heater	1 X 4500 VA = 4,500 VA
Total General Load	= 52,545 VA
Demand Factor (NEC 220.42)	
First 3,000 VA at 100%	= 3,000 VA
Remainder at 35%	= 17,341 VA
Total Load Demand Factor	= 20,341 VA
LOAD SUMMARY	
General Load (from above)	= 85 AMPS
Pool	= 30 AMPS
Ev Charger	= 40 AMPS
FC/CU-1	= 40 AMPS
FC/CU-2	= 40 AMPS
FC/CU-3	= 40 AMPS
FC/CU-4	= 40 AMPS
FC/CU-5	= 19 AMPS
Heated Floors	= 35 AMPS
Total Load	= 370 AMPS

SHORT CIRCUIT CALCULATIONS														
FAULT DESIG	PANEL	LOAD AMPS	LENGTH (FT.)	SHORT CIRKT AMPS	"1" OR "3" PHASE?	# OF CTRS/ PHASE	"CU" OR "AL"	CONDUCTOR SIZE (AWG/KCMIL)	NONMAG CONDUIT? "Y" OR "N"	"C" VALUE	V	f	m	TOTAL I _{sc} (amps)
F1	A	200	10	22,000	1	1	AL	250 KCM	Y	12882	240	0.1425	0.8752	19,255
F2	B	100	120	22,000	3	1	AL	#1/0	Y	5838	240	3.2635	0.2345	5,160
F3	C	100	116	22,000	3	1	AL	#1/0	Y	5838	240	3.1278	0.2423	5,330
F4				5,330				NONE						0
F5								NONE						0
F6								NONE						0

PANEL SCHEDULE SYMBOLS	
A	CONTINUOUS DUTY/LARGEST LOAD @125%
B	PROVIDE BREAKER WITH HANDLE "LOCK-ON" DEVICE
C	PROVIDE BREAKER WITH HANDLE "LOCK-OFF" DEVICE
D	CONTROLLED BY PHOTOCELL
E	CONTROLLED BY TIMELOCK
F	EXISTING BREAKER WITH LOAD REMOVED
G	EXISTING BREAKER WITH NEW LOAD
H	NEW BREAKER WITH NEW LOAD
J	SHUNT-TRIP CIRCUIT BREAKER
K	KITCHEN LOAD AT 65% PER NEC 220.56
GFCI	GFCI PROTECTED CIRCUIT BREAKER
AFCI	ARC FAULT PROTECTED BREAKER



Need schedule for Panel B

SMITH RESIDENCE
PARCEL: 105-21-001M, E LOMA LN, SIERRA VISTA (COCHISE COUNTY), AZ 85650
ELECTRICAL PANELS & ONE-LINE DIAGRAM

DRAWN	AV
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