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WILL ROGERS BIRTHPLACE RESTORATION

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REV PLAN

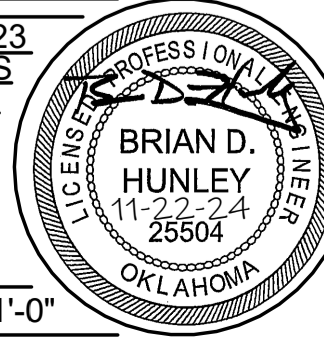
ELECTRICAL SYMBOLS AND GENERAL NOTES

ISSUE FOR BIDDING AND OWNERS USE

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E001

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



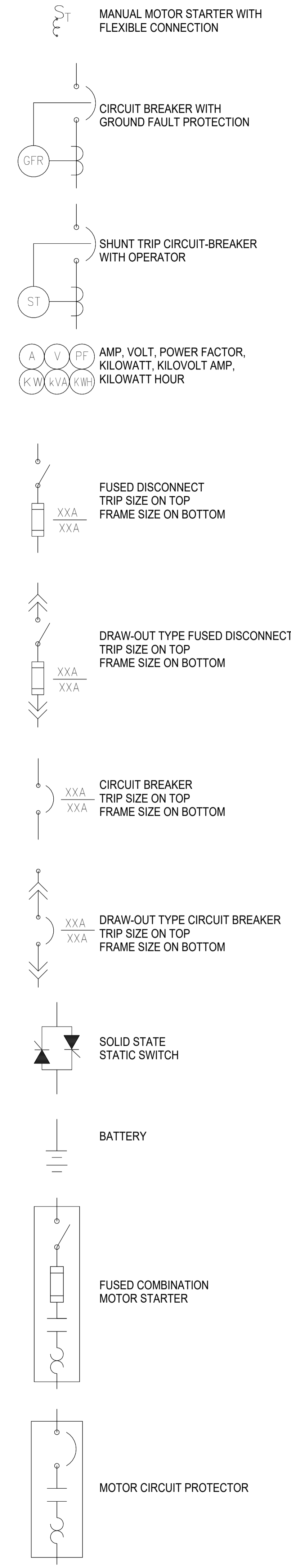
ELECTRICAL GENERAL NOTES

- 1. THE SPACE ALLOCATION SHOWN ON THE PLAN DRAWINGS ARE BASED ON ONLY ONE MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED SWITCHGEAR (INCLUDING SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS) WILL SATISFY THE SPACE REQUIREMENTS SHOWN ON THE DRAWINGS.
2. HERE CEILING SPACE IS A RETURN AIR PLENUM. ALL WIRING IN CEILING SPACE MUST BE IN CONDUIT OR USE TEFLON JACKETED CABLE TO MEET RETURN AIR PLENUM REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING THE SITE TO DETERMINE ALL EXISTING CONDITIONS RELATED TO THE NEW BUILDING. THIS INCLUDES ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE PROVISIONS FOR CROSSING, DISCONNECTING IN THE EVENT NEW UTILITY SERVICE TO NEW BUILDING ARE ROUTED THRU THESE AREAS.
4. SURFACE MOUNTED PANELS, DEVICES, AND RACEWAY WILL ONLY BE ALLOWED IN MECHANICAL AREAS.
5. COMBINATION OF HOMERUN CIRCUITS SHALL BE AS FOLLOWS:
A. ALL CIRCUITS WITH SEPARATE HOMERUN ARROWS SHALL BE INSTALLED IN DEDICATED CONDUITS. DO NOT COMBINE WITH OTHER BRANCH CIRCUITS.
B. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL.
C. A MAXIMUM OF SIX 20A BRANCH CIRCUIT PHASE CONDUCTORS IN COMMON HOMERUN.
D. MINIMUM BRANCH CIRCUIT CONDUCTOR SHALL BE #12AWG, THHN.
E. ALL 120V CIRCUITS SERVING NON-LIGHTING BRANCH CIRCUITS SHALL HAVE SEPARATE #12 AWG EQUIPMENT GROUNDING CONDUCTOR.
6. ELECTRICAL CONTRACTOR TO COORDINATE THE MOUNTING HEIGHTS OF ALL COMMUNICATION OUTLETS AND RECEPTACLES WITH ARCHITECTURAL DETAILS.
7. IN AREAS WHERE COMMUNICATION OUTLETS ARE INSTALLED IN WALL OF ROOM WITH A GYPBOARD CEILING, CONTRACTOR SHALL INSTALL 3/4" CONDUIT FROM OUTLET TO ACCESSIBLE CEILING.
8. CONTRACTOR TO COORDINATE WITH LANDSCAPE PLANS FOR ACTUAL LOCATION OF ALL EXTERIOR LANDSCAPE FIXTURES.
9. ALL 120 AND 277V BRANCH CIRCUITS GREATER THAN 100' SHALL BE #10 THHN, MINIMUM.
10. CONTRACTOR SHALL INSTALL A PULL STRING IN ALL EMPTY CONDUITS.
11. CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION OF 24" BETWEEN COMMUNICATIONS CONDUIT AND PRIMARY CONDUIT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING STARTER TYPE, OVERLOAD SIZE, AND DISCONNECT SIZE FOR ALL MOTORS WITH MECHANICAL CONTRACTOR.
13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR DEVICES. LOCATIONS SHALL BE IN ACCORDANCE WITH ALL UNDERWRITERS LABORATORIES AND LOCAL AUTHORITY REQUIREMENTS. IN NO CASE SHALL FIRE RATED POKE-THROUGH DEVICES BE INSTALLED LESS THAN 24" ON CENTER AND/OR MORE THAN ONE (1) PENETRATION PER 65 SQUARE FEET OF FLOOR AREA OF BEAM SPACE.
14. CONTRACTOR TO LOCATE ALL LIGHTING FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLANS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING ELECTRICAL SERVICE TO ALL REMAINING AREAS OF THE FACILITY THROUGHOUT THE PROJECT EXCEPT DURING SCHEDULED SHUTDOWN TIMES.
16. ANY SHUTDOWNS OF THE EXISTING FACILITY SHALL BE MUTUALLY AGREED UPON BY OWNER AND CONTRACTOR. CONTRACTOR SHALL GIVE OWNER MINIMUM OF TWO WEEKS NOTICE OF ANY SHUTDOWNS OF EXISTING FACILITY.
17. ALL NEW ELECTRICAL PANELS SHALL BE INSTALLED A MINIMUM OF 8" FROM ADJACENT PERPENDICULAR WALLS (TO ALLOW FOR FUTURE INSTALLATION OF ELECTRICAL PANELS ON ADJACENT PERPENDICULAR WALLS).
18. INSTALL ALL TRANSFORMERS A MINIMUM OF 6" FROM WALLS.
19. CONTRACTOR SHALL REVIEW ALL TRENCHING ON SITE WITH LANDSCAPE ARCHITECT AND OBTAIN APPROVAL BEFORE PERFORMING WORK.
20. CONTRACTOR SHALL ALLOW A MAXIMUM OF 3% VOLTAGE DROP ON ALL EMERGENCY BRANCH CIRCUITS THROUGHOUT THE AREAS UNDER THIS CONTRACT. CONTRACTOR SHOULD SIZE THE EMERGENCY BRANCH CIRCUITS FEEDERS ACCORDINGLY TO MAINTAIN THE MAXIMUM VOLTAGE DROP AS LISTED ABOVE.
21. CONTRACTOR TO REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATION OF ALL FLOW SWITCHES. CONTRACTOR TO PROVIDE CONNECTION TO FLOW SWITCHES FROM FIRE ALARM SYSTEM. CONTRACTOR TO ALSO PROVIDE CONNECTION TO ALL TAMPER SWITCHES FOR EXACT LOCATIONS COORDINATE WITH FIRE PROTECTION (SPRINKLER) CONTRACTOR.
22. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING NED PLUS ANY LOCAL CODES. IT SHOULD BE NOTED THAT BASED ON OUR DESIGN STANDARDS THE DRAWINGS WILL HAVE AREAS THAT WILL EXCEED CODE REQUIREMENTS. THE AREAS ON THE CONTRACT DOCUMENTS THAT EXCEED CODE REQUIREMENTS SHOULD BE CONSIDERED PART OF THE SCOPE OF THE PROJECT AND SHOULD BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
23. CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
24. CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION.

ELECTRICAL SYMBOLS LIST

- 3 DUPLEX CONVENIENCE OUTLET, +18" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT, (EXAMPLE 3).
2 SIMPLEX CONVENIENCE OUTLET, +18" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT, (EXAMPLE 2).
GFI GFI DENOTES GROUND FAULT INTERRUPTING.
WP WP DENOTES IN-USE WEATHERPROOF COVER.
IG IG DENOTES ISOLATED GROUND.
SPECIAL RECEPTACLE OUTLET CONFIGURATION.
DOUBLE DUPLEX RECEPTACLE OUTLET.
WALL MOUNTED JUNCTION BOX FOR POWER SERVICE TO PANEL SYSTEM. NUMBER DENOTES CIRCUIT, EXAMPLE: 1)
JUNCTION BOX, NUMBER DENOTES CIRCUIT (EXAMPLE 1)
FLOOR MOUNTED OUTLET FOR POWER SERVICE, DATA SERVICE, AND TELEPHONE SERVICE TO PANEL SYSTEM. PROVIDE FINAL CONNECTIONS TO PANEL SYSTEM. NUMBER DENOTES CIRCUIT TYPICAL (EXAMPLE: 1).
COMBINATION POWER/DATA FLOOR BOX SERVICE FITTING.
POWER SERVICE FOR FLOOR BOX SERVICE FITTING.
DATA SERVICE FOR FLOOR BOX SERVING FITTING. INSTALL DATA COVERPLATE IN SERVICE FITTING.
DATA CABLE SERVICE, +18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
JUNCTION BOX WITH BLANK COVER PLATE +18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
OUTLET FOR CABLE TV, +18" A.F.F. U.O.N. FURNISH AND INSTALL CONDUIT AND CABLE AS REQUIRED TO COMPLETE A FULLY OPERABLE SYSTEM.
FIRE ALARM CONTROL PANEL.
ADA APPROVED FIRE ALARM MANUAL PULL STATION, +46" A.F.F. U.O.N. INTERFACE TO BASE BUILDING FIRE ALARM SYSTEM.
ADA APPROVED STROBE LIGHT, MATCH BUILDING STANDARD. MOUNT BOTTOM OF DEVICE AT 80" A.F.F. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
ADA APPROVED STROBE LIGHT WITH AUDIBLE ALARM, MATCH BUILDING STANDARD. MOUNT BOTTOM OF DEVICE AT 80" A.F.F. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
ADA APPROVED CEILING MOUNTED STROBE LIGHT, MATCH BUILDING STANDARD. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
ADA APPROVED CEILING MOUNTED STROBE LIGHT WITH AUDIBLE ALARM, MATCH BUILDING STANDARD. INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. PROVIDE POWER SUPPLIES AS REQUIRED.
ADA APPROVED FIRE ALARM VOICE ALARM SPEAKER, INTERFACE WITH FIRE ALARM SYSTEM.
ADA APPROVED SMOKE DETECTOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
ADA APPROVED SMOKE DETECTOR, DUCT MOUNTED, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM. DETECTOR TO SHUTDOWN ASSOCIATED HVAC UNIT UPON ALARM.
ADA APPROVED FIRE ALARM HORN, RECESSED, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
SPRINKLER SYSTEM FLOW SWITCH. INTERCONNECT TO BASE BUILDING FIRE SYSTEM.
VALVE POSITION INDICATOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
DOOR HOLD OPEN DEVICE, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
ADA APPROVED CARBON MONOXIDE DETECTOR.
FIREMAN'S COMMUNICATION JACK.
SOUND SYSTEM PAGING SPEAKER.
DISCONNECT SWITCH, FUSED.
DISCONNECT SWITCH, NON-FUSED.
COMBINATION STARTER, FUSED.
COMBINATION STARTER, NON-FUSED.
MANUEL MOTOR STARTER WITH THERMAL OVERLOAD.
VARIABLE FREQUENCY CONTROLLER, PROVIDED BY ELECTRICAL
ELECTRIC MOTOR, NIEC, MAKE CONNECTIONS ONLY. NUMBER DENOTES HORSEPOWER. (EXAMPLE: 2HP)
PANELBOARD, SURFACE MOUNTED.
PANELBOARD, RECESSED MOUNTED.
CONDUIT RUN BELOW SLAB OR UNDERGROUND.
CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS, EXCEPT NO CROSSMARKS INDICATE TWO #12 AWG CONDUCTORS.
LONG CROSSMARKS INDICATE PHASE CONDUCTORS AND SHORT CROSSMARKS WITHOUT DESIGNATION ARE NEUTRAL CONDUCTORS. SHORT CROSSMARKS WITH 'G' ARE SEPARATE EQUIPMENT GROUNDING CONDUCTORS.
ALL CONDUCTORS SHALL BE #12 AWG U.O.N.
ALL PVC CONDUITS SHOULD HAVE SEPARATE GROUNDING CONDUCTOR.
FLEXIBLE METALLIC CONDUIT.
EMERGENCY POWER OFF PUSHBUTTON WITH LIFT COVER +46" A.F.F. U.O.N.
SINGLE POLE TOGGLE OR MOMENTARY CONTACT SWITCH, +46" A.F.F. U.O.N. "a" INDICATES FIXTURES SWITCHED, ALSO USED IN LOW VOLTAGE SWITCHING TO CONTROL REMOTE CONTACTOR OR IN DIRECT LINE VOLTAGE SWITCHING.
THREE-WAY TOGGLE SWITCH, +46" A.F.F. U.O.N.
WALL BOX DIMMER SWITCH, +46" A.F.F. U.O.N.
WALL MOUNTED OCCUPANCY SENSOR WITH MANUAL OVER-RIDE SWITCH, +46" A.F.F. U.O.N.
CEILING MOUNTED OCCUPANCY SENSOR.
WALL MOUNTED OCCUPANCY SENSOR.
LED OR FLUORESCENT LED FIXTURE. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, "a", UPPER CASE LETTER INDICATES FIXTURE TYPE, i.e. "B", NUMERAL INDICATES PANEL CIRCUIT NUMBER, i.e. "3". SWITCH, FIXTURE TYPE, AND CIRCUIT NUMBERS ARE TYPICAL FOR ALL LIGHTING FIXTURES. WHERE TWO SWITCHING DESIGNATIONS ARE SHOWN CIRCUIT ONE LAMP OF TWO LAMP FIXTURES AND OUTER LAMPS OF 3 AND 4 LAMP FIXTURES TO THE FIRST SWITCHING DESIGNATION SHOWN, AND THE REMAINING LAMP(S) TO THE SECOND DESIGNATION SHOWN.
EMERGENCY LED OR FLUORESCENT FIXTURE, PROVIDE FIXTURE WITH INTEGRAL BATTERY BACKUP, TYPICAL FOR ALL LIGHTING FIXTURES. REFER TO EMERGENCY BALLAST WIRING DIAGRAM.
LED OR FLUORESCENT STRIP FIXTURE.
LED, INCANDESCENT, FLUORESCENT OR H. I. D. FIXTURE.
LED, INCANDESCENT, FLUORESCENT OR H. I. D. FIXTURE, WALL MOUNTED.
LED, INCANDESCENT, FLUORESCENT OR H. I. D. SCONCE.
LED, INCANDESCENT, FLUORESCENT OR H. I. D. WALL WASHER.
WALL MOUNTED EGRESS FIXTURE.
CEILING MOUNTED EGRESS FIXTURE.
SINGLE FACE EXIT FIXTURE, CEILING OR WALL MOUNTED, PROVIDE DIRECTIONAL ARROWS AS SHOWN. BRACKET DENOTES WALL MOUNTING. MOUNT FIXTURE FACE PARALLEL TO ADJACENT DOOR WHERE APPLICABLE.
DOUBLE FACE EXIT FIXTURE, CEILING OR WALL MOUNTED, PROVIDE DIRECTIONAL ARROWS AS SHOWN. BRACKET DENOTES WALL MOUNTING. MOUNT FIXTURE FACE PERPENDICULAR TO ADJACENT DOOR WHERE APPLICABLE.
NUMBERED NOTE: REFER TO SHEET CONTAINING NUMBERED NOTES.

- WAP WIRELESS ACCESS POINT, FURNISHED AND INSTALLED BY OWNER. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR. REFER TO SPECIFICATION SECTION 270500.
SC SECURITY CAMERAS, FURNISHED AND INSTALLED BY OWNER. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR. REFER TO SPECIFICATION SECTION 281000.
DS DOOR STRIKE FOR SECURITY/ACCESS CONTROL. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR. REFER TO SPECIFICATION SECTION 281000.
BG BREAK GLASS DEVICE, CEILING MOUNTED FOR SECURITY/ACCESS CONTROL. CABLING, TERMINATIONS, TESTING AND MAPPING BY THE CONTRACTOR. REFER TO SPECIFICATION SECTION 281000.
A AUDIO/VISUAL DEVICE, WALL MOUNTED.
P TELEPHONE/POWER POLE
M MICROPHONE OUTLET, 18" A.F.F. U.O.N., PROVIDE PLASTER RING AND PULL STRING TO ACCESSIBLE CEILING SPACE.
C CEILING OR WALL MOUNTED PHOTOCELL.
R RECESSED CLOCK OUTLET, +80" A.F.F. U.O.N., NUMBER DENOTES CIRCUIT (EXAMPLE 1).
CR CARD READER, +46" A.F.F. U.O.N.
S SOLENOID VALVE.
DM DOOR POSITION MONITOR SWITCH.
NS DOOR SWITCH, COORDINATE EXACT LOCATION WITH DOOR FRAMING.
EL ELECTRIC DOOR LOCK, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
H HEAT DETECTOR, INTERCONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
G GAS SENSOR
G GAS HORN, RECESSED TYPE.
L LIQUID SENSOR LOCATED BELOW RAISED FLOOR.
H DOOR RELEASE PUSHBUTTON, +46" A.F.F. U.O.N.
P KEY PAD.
O KEY OVERRIDE.
I INTERCOM, +46" A.F.F. U.O.N.
M BACKGROUND MUSIC SPEAKER
W WALL MOUNTED PUSHBUTTON FOR INTERCOM, +46" A.F.F. U.O.N.
AIC INTERRUPTION CAPACITY
A AMPS
V VOLTS
IG ISOLATED GROUND
GND GROUND
3P PHASE DESIGNATION (EXAMPLE 3 PHASE)
3W NUMBER OF CONDUCTORS (EXAMPLE 3 WIRES)
3" CONDUIT SIZE (EXAMPLE 3" CONDUIT)
G GENERATOR.
SWITCH/FUSE COMBINATION, INDIVIDUALLY MOUNTED.
CIRCUIT BREAKER.
WATT-HOUR METER.
CURRENT TRANSFORMER
CURRENT LETTER REPRESENTS DRAWING TITLE NUMBERS INDICATES SHEET NUMBER
INDICATES EXISTING EQUIPMENT OR UNDERGROUND ROUTING
TRANSFORMER
ELECTRICAL EQUIPMENT ENCLOSURE



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CLIENT  
**CHEROKEE NATION CULTURAL AND ECONOMIC DEVELOPMENT LLC.**

PROJECT  
**WILL ROGERS BIRTHPLACE RESTORATION**

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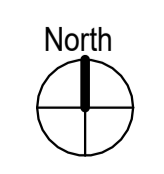
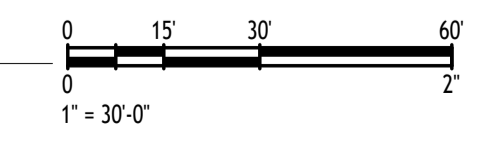
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E  
D  
C  
B  
A

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**1 Site Plan - Electrical**  
SCALE: 1" = 50'-0"



KEY PLAN

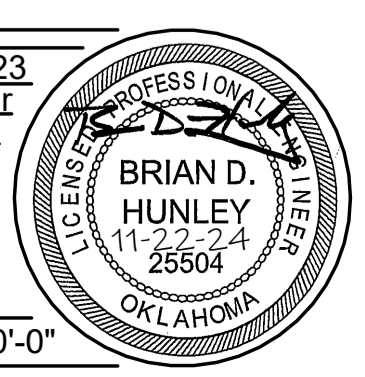
SHEET TITLE  
**SITE PLAN - ELECTRICAL**

ISSUE FOR BIDDING AND OWNERS USE

PROJECT NO: 111-056.23  
DRAWN BY: Author  
CHECKED BY: Checker  
DATE: 9/26/2024

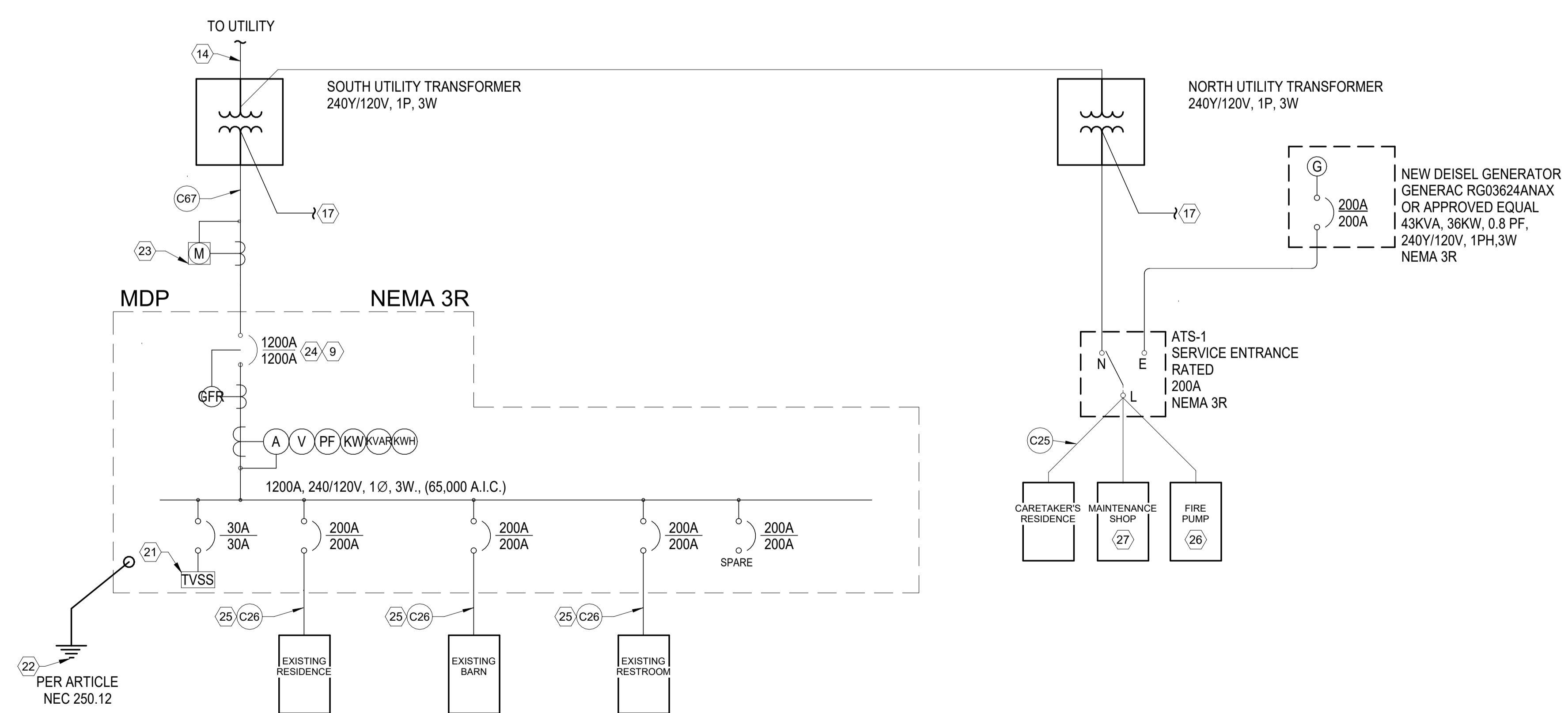
**E005**

SCALE: 1" = 50'-0"



### CONDUIT SCHEDULE

MARK	FEEDER SIZES	MARK	FEEDER SIZES
C1	3#12, 1#12GND, 3/4"	C45	3-500MCM, 2-500MCM NEUTRAL, 1-500MCM I.G., 1-500MCM GND, 4"
C2	3#10, 1#10GND, 3/4"	C46	TWO (2) SETS 3#3/0, 1#3GND, 2"
C3	4#10, 1#10GND, 3/4"	C47	TWO (2) SETS 4#3/0, 1#3GND, 2 1/2"
C4	3#8, 1#10GND, 3/4"	C48	TWO (2) SETS 3#3/0, 2#3/0 NEUTRAL, 1#3/0 I.G., 1#3/0GND, 3"
C5	4#8, 1#10GND, 1"	C49	TWO (2) SETS 3#4/0, 1#2GND, 2"
C6	3#6, 1#10GND, 1"	C50	TWO (2) SETS 4#4/0, 1#2GND, 2 1/2"
C7	4#6, 1#10GND, 1"	C51	TWO (2) SETS 3#4/0, 2#4/0 NEUTRAL, 1#4/0 I.G., 1#4/0GND, 3"
C8	3#4, 1#8GND, 1 1/4"	C52	TWO (2) SETS 3-250MCM, 1#2GND, 2 1/2"
C9	4#4, 1#8GND, 1 1/4"	C53	TWO (2) SETS 4-250MCM, 1#2GND, 3"
C10	3#3, 1#8GND, 1 1/4"	C54	TWO (2) SETS 3-250MCM, 2-250MCM NEUTRAL, 1-250MCM I.G., 1-250MCM GND, 3"
C11	4#3, 1#8GND, 2"	C55	TWO (2) SETS 3-350MCM, 1#1GND, 3"
C12	3#3, 2#3 NEUTRAL, 1#3 I.G., 1#3GND, 1 1/2"	C56	TWO (2) SETS 4-350MCM, 1#1GND, 3 1/2"
C13	3#2, 1#6GND, 1 1/4"	C57	TWO (2) SETS 3-350MCM, 2-350MCM NEUTRAL, 1-350MCM I.G., 1-350MCM GND, 3 1/2"
C14	4#2, 1#6GND, 1 1/2"	C58	TWO (2) SETS 3-500MCM, 1#1/0GND, 3"
C15	3#2, 2#2 NEUTRAL, 1#2 I.G., 1#2GND, 2"	C59	TWO (2) SETS 4-500MCM, 1#1/0GND, 3 1/2"
C16	3#1, 1#6GND, 1 1/2"	C60	TWO (2) SETS 3-500MCM, 2-500MCM NEUTRAL, 1-500MCM I.G., 1-500MCM GND, 4"
C17	4#1, 1#6GND, 2"	C61	THREE (3) SETS 3-250MCM, 1#1/0GND, 2 1/2"
C18	3#1, 2#1 NEUTRAL, 1#1 I.G., 1#1GND, 2 1/2"	C62	THREE (3) SETS 4-250MCM, 1#1/0GND, 3"
C19	3#1/0, 1#6GND, 1 1/2"	C63	THREE (3) SETS 3-300MCM, 1#1/0GND, 2 1/2"
C20	4#1/0, 1#6GND, 2"	C64	THREE (3) SETS 4-300MCM, 1#1/0GND, 3"
C21	3#1/0, 2#1/0 NEUTRAL, 1#1/0 I.G., 1#1/0GND, 2 1/2"	C65	THREE (3) SETS 3-400MCM, 1#2/0GND, 3"
C22	3#2/0, 1#6GND, 2"	C66	THREE (3) SETS 4-400MCM, 1#2/0GND, 3"
C23	4#2/0, 1#6GND, 2"	C67	FOUR (4) SETS 3-350MCM, 1#3/0GND, 3"
C24	3#2/0, 2#2/0 NEUTRAL, 1#2/0 I.G., 1#2/0GND, 2 1/2"	C68	FOUR (4) SETS 4-350MCM, 1#3/0GND, 3"
C25	3#3/0, 1#6GND, 2"	C69	FOUR (4) SETS 3-500MCM, 1#4/0GND, 3"
C26	4#3/0, 1#6GND, 2 1/2"	C70	FOUR (4) SETS 4-500MCM, 1#4/0GND, 3 1/2"
C27	3#3/0, 2#3/0 NEUTRAL, 1#3/0 I.G., 1#3/0GND, 3"	C71	FIVE (5) SETS 3-500MCM, 1#4/0GND, 3"
C28	3#4/0, 1#4GND, 2"	C72	FIVE (5) SETS 4-500MCM, 1#4/0GND, 3 1/2"
C29	4#4/0, 1#4GND, 2 1/2"	C73	SIX (6) SETS 3-500MCM, 1-250MCM GND, 3 1/2"
C30	3#4/0, 2#4/0 NEUTRAL, 1#4/0 I.G., 1#4/0GND, 3"	C74	SIX (6) SETS 4-500MCM, 1-350MCM GND, 3 1/2"
C31	3-250MCM, 1#4GND, 2 1/2"	C75	ELEVEN (11) SETS 3-500MCM, 1#4/0 NEUTRAL, 3 1/2"
C32	4-250MCM, 1#4GND, 2 1/2"	C76	ELEVEN (11) SETS 3-500MCM, 1#4/0 NEUTRAL, 1-500GND, 3 1/2"
C33	3-250MCM, 2-250MCM NEUTRAL, 1-250MCM I.G., 1-250MCM GND, 3 1/2"	C77	TWO (2) 2" C. WITH PULL STRINGS
C34	3-300MCM, 1#4GND, 2 1/2"	C78	TWO (2) 3" C. WITH PULL STRINGS
C35	4-300MCM, 1#4GND, 3"	C79	TWO (2) 1 1/2" C. WITH PULL STRINGS
C36	3-300MCM, 2-300MCM NEUTRAL, 1-300MCM I.G., 1-300MCM GND, 3 1/2"	C80	TWO (2) 4" C. WITH PULL STRINGS
C37	3-350MCM, 1#4GND, 2 1/2"	C81	THREE (3) 4" C. WITH PULL STRINGS
C38	4-350MCM, 1#4GND, 3"	C82	NINE (9) SETS 4-500MCM, 4"
C39	3-350MCM, 2-350MCM NEUTRAL, 1-350MCM I.G., 1-350MCM GND, 3 1/2"	C83	SIX (6) SETS 4-400MCM, 1-250MCM GND, 4"
C40	TWO (2) SETS 3#2/0, 1#3GND, 2"	C84	ONE (1) 1" C. WITH PULL STRINGS
C41	TWO (2) SETS 4#2/0, 1#3GND, 2"	C85	ONE (1) 4" C. WITH PULL STRINGS
C42	TWO (2) SETS 3#2/0, 2#2/0 NEUTRAL, 1#2/0 I.G., 1#2/0GND, 2 1/2"	C86	ONE (1) 2" C. WITH PULL STRINGS
C43	3-500MCM, 1#3GND, 3"		
C44	4-500MCM, 1#3GND, 3 1/2"		



**1 ONE-LINE DIAGRAM**  
SCALE: 1/8" = 1'-0"

### KEYNOTES

- 9 REFEEED ALL EXISTING SINGLE PHASE ELECTRICAL SERVICE FROM NEW PANEL MDP. COORDINATE EXACT QUANTITY AND SIZE OF BRANCH CIRCUIT BREAKERS NEEDED WITH EXISTING UTILITY SERVICES. EXTEND EXISTING UNDERGROUND SERVICE TO NEW PANEL LOCATION. PROVIDE NEW UNDERGROUND FEEDERS TO REPLACE EXISTING OVERHEAD. EXISTING SERVICES TO BE REFEED INCLUDE THE CARETAKERS HOUSE, RV PARKING AREA, FIELD HOUSE, RANCH HOUSE, BARN AND OUTBUILDING.
- 14 FURNISH AND INSTALL PER VVEC SPECIFICATIONS THREE(3) TWO(2) INCH CONDUITS ONLY WITH PULL STRING FOR PRIMARY CONDUCTORS BY UTILITY. PRIOR TO BID/INSTALLATION VERIFY ROUTING AND LOCATION OF PAD/POLE MOUNTED TRANSFORMER WITH VVEC AND ARCHITECT/OWNER. CONTRACTOR TO PERFORM ALL NECESSARY TRENCHING, INSTALL CONDUIT, BEDDING AND WARNING TAPE, PERFORM ALL TRENCH BACKFILLING AND COMPACTION AND CONSTRUCT REQUIRED TRANSFORMER PADS. WHERE CONDUIT IS INSTALLED UNDER HARD SURFACES CONTRACTOR TO FURNISH AND INSTALL CONTINUOUS LENGTH SCHEDULE 80 CONDUIT. CONDUIT SHALL BE PLACED FOUR(4) FEET BELOW FINAL FINISHED GRADE. COORDINATE FINAL REQUIRMENTS WITH VVEC SPECIFICATIONS.
- 17 PROVIDE FOUR(6)-4" CONDUITS STUBBED OUT OF TRANSFORMER SECONDARY VAULT FOR SERVICE TO FUTURE PHASES.
- 21 INTEGRAL SURGE PROTECTION FOR SWITCHBOARD. REFER TO ELECTRICAL SPECIFICATION SECTION 264313 FOR FURHTER INFORMATION. COORDINATE OVERCURRENT SIZE WITH MANUFACTURER'S RECOMMENDATIONS.
- 22 ALL GROUNDING / BONDING IS TO BE PER LATEST NEC REQUIREMENTS. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN GRC. FURNISH AND INSTALL ALL CONNECTIONS TO GROUND RODS, BUILDING STEEL, ETC PER NATIONAL AND LOCAL CODE, AND UTILITY REQUIREMENTS USING BURNDY HYGROUND COMPRESSION GROUNDING SYSTEM. SEE SERVICE GROUNDING DETAIL ON SAME SHEET.
- 23 METER CAN PROVIDED BY VVEC. INSTALL METER CAN WITH 1 INCH CONDUIT AS SPECIFIED BY VVEC. LOCATION AND MOUNTING OF METER CAN WITH CONDUIT ROUTING AS DIRECTED BY UTILITY.
- 24 MAIN BREAKER TO BE 100% RATED AND SERVICE ENTRANCE RATED PER NEC.
- 25 CONTRACTOR TO VERIFY BREAKER AND FEEDER SIZES WITH EXISTING PANELS BEING REFEED FROM NEW MDP.
- 26 VERIFY PANEL AND FEEDER SIZE WITH FIRE PUMP MANUFACTURER.
- 27 VERIFY PANEL AND FEEDER SIZE WITH OWNER PROVIDED MAINTENANCE SHOP.



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**PROJECT**  
WILL ROGERS BIRTHPLACE RESTORATION

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**KEY PLAN**

**ONE-LINE DIAGRAM**

ISSUE FOR BIDDING AND OWNERS USE

PROJECT NO: 111-056-23  
DRAWING: RCS  
DATE: 9/26/2024  
SCALE: 1/8" = 1'-0"

**E401**

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