RENOVATION NOTES:

1. ELECTRICAL SYSTEM LAYOUTS INDICATED ARE GENERALLY DIAGRAMMATIC AND LOCATIONS OF OUTLETS AND EQUIPMENT ARE APPROXIMATE; EXACT ROUTING OF RACEWAYS, CABLES, WIRING, LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND COORDINATED WITH WORK OF OTHER TRADES. DO NOT SCALE INFORMATION OFF OF DRAWINGS, UNLESS EXACT DIMENSIONS ARE GIVEN.
2. ANY ITEMS NOT MENTIONED ON THESE NOTES OR NOT INDICATED ON THE PLANS BUT WHICH ARE NECESSARY FOR SUCCESSFUL AND EFFICIENT OPERATION OF THE WORK SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
3. DRAWING SHOW EXISTING "AS BUILT" CONDITIONS OF THE SITE. AN ATTEMPT HAS BEEN MADE TO SHOW EXISTING ELECTRICAL EQUIPMENT, BUILDINGS, SITE DETAILS, ETC., BUT ACCURACY CANNOT BE GUARANTEED VERIFY EXACT LOCATIONS OF ALL CIRCUITS, CONDUITS, PIPING, EQUIPMENT, ETC. VERIFY ALL SITE AND BUILDING DETAILS.
4. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
5. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN. EXISTING RUN SHALL BE VERIFIED AS TO EXACT LOCATION.
6. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
7. MAINTAIN CONTINUITY OF CIRCUIT WHERE EXISTING EQUIPMENT OR DEVICE IS TO BE REMOVED AND DOWN STREAM DEVICES MAY BE AFFECTED.
8. OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF IT IS NOT POSSIBLE TO REMOVE, PLACE A BLANK COVER ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC., ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND REMOVE WIRING.
9. WHERE CONDUITS EXTENDING THROUGH FLOORS ARE TO BE ABANDONED, THE CONTRACTOR SHALL CUT AND CAP OR PLUG CONDUIT, THAT IT WILL NOT PROTRUDE ABOVE THE FLOOR.
10. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN AN ACCESSIBLE CEILING. REMOVE ALL CONDUIT AND WIRE BACK TO PANEL IF NOT BEING REUSED. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF CAPPED OR PLUGGED.
11. THE CONTRACTOR SHALL FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
12. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
13. THE CONTRACTOR SHALL EXERCISE CARE SO THAT ONLY THE CONSTRUCTION INDICATED OR REASONABLY IMPLIED TO REMOVED SHALL BE DEMOLISHED. THE EXISTING CONSTRUCTION TO REMAIN SHALL BE LEFT INTACT AND UNDAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLITION AND CONSTRUCTION DEBRIS GENERATED FROM ALL WORK. TAKING CARE TO PREVENT EXCESSIVE LOADING OF FLOOR ASSEMBLIES.

DEMOLITION NOTES

REFER TO ARCHITECTURAL DRAWINGS TO VERIFY EXTENT OF DEMOLITION. ALL ELECTRICAL WORK IN NATURE, ie, REMOVING, RELOCATING, RECONNECTION, ETC. CAUSED BY THIS DEMOLITION SHALL BE DEEMED PART OF THE ELECTRICAL CONTRACTOR'S CONTRACT.

GENERAL NOTES:

1. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
2. ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ENACTED EDITIONS OF THE CEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
3. FURNISH AND INSTALL ALL NECESSARY LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO INSTALL COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS ACCORDING TO THE INTENT OF THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS WHETHER ITEMIZED OR NOT.
4. EXAMINE THE DRAWINGS FOR MECHANICAL EQUIPMENT AND PROVIDE STARTERS, CIRCUIT BREAKERS, SWITCHES, PUSH BUTTONS AND APPURTENANCES WHICH ARE NOT SPECIFIED TO BE WITH THE MECHANICAL EQUIPMENT. ERECT ALL ELECTRICAL EQUIPMENT NOT DEFINITELY STATED TO BE ERECTED BY OTHERS, FURNISH AND INSTALL CONDUIT WIRE AND CABLE AND MAKE CONNECTIONS REQUIRED TO PLACE ALL EQUIPMENT IN COMPLETE OPERATION.
5. THE ELECTRICAL CONTRACTOR SHALL HAVE THOROUGHLY EXAMINED THE SITE AND FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS, AND SHALL HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS PROPOSAL. HE SHALL VERIFY EXISTING CONDITIONS, PULL BOXES, ELECTRICAL DISTRIBUTION SYSTEMS AND DEMOLITION REQUIREMENTS PRIOR TO SUBMITTING A BID.
6. IN THE EVENT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL BID NEW CONDITIONS, WIRES AND NECESSARY EQUIPMENT IN ORDER TO COMPLETE THE JOB AND PROVIDE A FULLY OPERABLE AND AND ACCEPTABLE SYSTEMS. EXTRAS WILL NOT BE ALLOWED FOR WORK NOT INDICATED OR NOTED ON THE DRAWINGS WHEN SUCH WORK IS APPARENT FROM AN INSPECTION OF THE PREMISES AT THAT TIME.
7. ALL CONDUCTORS AND PANELBOARD BUSSING FOR THIS PROJECT SHALL BE COPPER UNO. ALL CONDUCTORS SHALL BE IN CONDUIT UNO.
8. ALL CONDUCTORS INSTALLED IN SWITCHBOARDS, PANELBOARDS, ETC. SHALL BE INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
9. ALL WIRING SHALL BE COPPER, THHN/THWN OR XHHW INSULATED IN CONDUIT. MINIMUM CONDUIT SIZE TO BE 1/2". PROVIDE INSULATED COPPER BOND WIRE ON ALL RACEWAYS SIZED PER C.E.C. ART 250.
10. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS, SWITCHBOARDS AND DISTRIBUTION CIRCUIT BREAKERS, WHITE LETTERS ¼" HEIGHT ON BLACK BACKGROUND. SCREW ATTACH LABELS TO EQUIPMENT WITH TWO OVAL HEAD SCREWS.
11. ALL MATERIALS USED ON THIS PROJECT SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITERS LABORATORIES AND APPROVED FOR ITS INTENDED USE.
12. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND C.E.C. 110.3.
13. ALL EQUIPMENT EXPOSED TO WEATHER CONDITIONS SHALL BE WEATHERPROOF, NEMA RATED AS REQUIRED PER NEMA AND U.L. STANDARDS UNO.
14. ALL MOTOR CIRCUITS AND OVERCURRENT PROTECTION ARE TO COMPLY WITH MANUFACTURER'S NAMEPLATE RATING AND C.E.C. 430.
15. PROVIDE WORKING CLEARANCE PER NEC 110.26 FOR SERVICE PANEL, SUB PANELS, MOTOR DISCONNECT SWITCHES, HVAC EQUIPMENT, APPLIANCES, ETC.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FINAL RUNS AND CONNECTIONS TO EQUIPMENT.
17. ALL RACEWAYS AND CONDUITS SHALL HAVE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR COLOR GREEN, SIZED IN CONFORMITY WITH C.E.C. 250.122.
18. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ALL ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS INCLUDING BUT NOT LIMITED TO HVAC, WATER HEATERS, GENERATORS, ETC. CONTRACTOR SHALL COMPARE NAMEPLATE RATINGS OF EQUIPMENT SUPPLIED WITH THE REQUIREMENTS NOTED ON THESE DRAWINGS AND ADVISE ENGINEER OF ANY DISCREPANCY PRIOR TO ROUGH-IN AND WIRING OF EQUIPMENT.
19. DUPLEX RECEPTACLES MOUNTED WITHIN 6 FEET OF SINK OR LAVATORY SHALL BE GFCI.
20. ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING MAY BE REQUIRED. ADDITIONAL FIXTURES SHALL BE LOCATED AS DIRECTED BY THE LOCAL BUILDING INSPECTOR OR ARCHITECT.
21. THE ELECTRICAL CONTRACTOR SHALL TAG EACH CIRCUIT CONDUCTOR AT EACH JUNCTION BOX, OUTLET, SWITCH, ETC. WITH THE CORRESPONDING PANEL AND BRANCH CIRCUIT DESIGNATION IN COMPLIANCE WITH C.E.C. 408.4 FOR REQUIRED CIRCUIT IDENTIFICATION.
22. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE APPROVAL OF THE OWNER.

DRAWING INDEX:

ABBREVIATIONS:

AC	ABOVE COUNTER
AF	AMPERE FRAME OR FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFS	AUTOMATIC FIRE SPRINKLER
AIC	AMPS INTERRUPTING CAPACITY RATING
AMP, A	AMPERES
APPR	APPROVED
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OF BREAKER
AUTO	AUTOMATIC
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BMS	BUILDING MANAGEMENT SYSTEM
BKR	BREAKER
C	CONDUIT
CFL	COMPACT FLUORESCENT
CKT	CIRCUIT
CNTRL	CONTROL
CO	CARBON MONOXIDE
CT	CURRENT TRANSFORMER
CU	COPPER
CWP	COLD WATER PIPE
DEF	DEFROST
DISC	DISCONNECT
DIST	DISTRIBUTION
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EDF	ELECTRIC DRINKING FOUNTAIN
EL	EVENING LIGHT
ELEV	ELEVATION
EM	EMERGENCY LIGHT
EMERG	EMERGENCY
EOL	END OF LINE RESISTOR
EQPT	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
(F)	FUTURE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
GFCI	GROUND FAULT CURRENT INTERRUPTER
GND	GROUND
HP	HORSE POWER
HZ	HERTZ
INC	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT
ISOL	ISOLATED
kcmil	THOUSAND CIRCULAR MILS
kV	KILOVOLTS
kW	KILOWATTS
kVA	KILOVOLT AMPERES
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MPOE	MAIN POINT OF ENTRY
MS	MOTION SENSOR
MSB	MAIN SWITCHBOARD
MT	CONDUIT ONLY w/PULL STRING
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRIC MANUFACTURER ASSOCIATION
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
NT	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OL	OVERLOAD
PB	PULLBOX
PFB	PROVIDE FOR FUTURE BREAKER
PIV	POST INDICATOR VALVE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REQD	REQUIRED
SHLD	SHIELDED
SHT	SHEET
SPECS	SPECIFICATIONS
SW	SWITCH
SYM	SYMMETRICAL
TEMP	TEMPERATURE
TOF	TIMED OFF DELAY
TS	TAMPER SWITCH
TSTAT	THERMOSTAT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UGPS	UNDERGROUND PULL SECTION
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS
W	WATTS
w/	WITH
WP	WEATHERPROOF
WPL	WEATHERPROOF LOCKING
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LEGEND:

(NOT ALL SYMBOLS SHOWN MAY BE USED)

- FLUORESCENT LIGHT FIXTURE - RECESSED
- FLUORESCENT LIGHT FIXTURE - RECESSED WITH INTEGRAL BATTERY PACK FOR EMERGENCY OPERATION
- FLUORESCENT LIGHT FIXTURE - SURFACE MOUNTED
- FLUORESCENT LIGHT FIXTURE - SURFACE MOUNTED WITH INTEGRAL BATTERY PACK FOR EMERGENCY OPERATION
- FLUORESCENT LIGHT FIXTURE - WALL MOUNTED
- FLUORESCENT STRIP LIGHT - SURFACE MOUNTED
- CEILING LIGHT FIXTURE - SURFACE/RECESSED MOUNTED
- LIGHT FIXTURE - WALL MOUNTED
- SINGLE HEAD SITE LIGHTING FIXTURE - POLE MOUNTED
- TWIN HEAD SITE LIGHTING FIXTURE - POLE MOUNTED
- FLOODLIGHT FIXTURE - GROUND MOUNTED
- EXIT LIGHT - CEILING OR WALL MOUNTED WITH ARROWS AS SHOWN
- EMERGENCY LIGHTING FIXTURE - SURFACE MOUNTED
- SINGLE RECEPTACLE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- DUPLEX CONVENIENCE OUTLET. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- DUPLEX CONVENIENCE OUTLET, SPLIT WIRED, MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- DUPLEX CONVENIENCE OUTLET, ISOLATED GROUND, MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTERHEIGHT. MOUNT BOTTOM OF J-BOX AT +44" A.F.F.
- FOURPLEX RECEPTACLE MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- FLUSH FLOOR OUTLET WITH BRASS COVERPLATE, U.N.O.
- SPECIAL OUTLET, VERIFY NEMA CONFIGURATION WITH EQUIPMENT.
- JUNCTION BOX, IN ACCESSIBLE LOCATION. SIZE AND AND TYPE AS INDICATED OR AS REQUIRED
- $ SINGLE POLE SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F., U.N.O.
- $3 THREE-WAY SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F., U.N.O.
- $M Sm H.P./MOTOR RATED SWITCH.
- $D DIMMER SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F., U.N.O.
- TELEPHONE OUTLET, CAT 5E CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- DATA OUTLET, CAT 5E CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- COMBINATION TELEPHONE/DATA OUTLET, (2) CAT 5E IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- TV TELEVISION OUTLET, COAX CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.
- PANELBOARD - SURFACE MOUNTED - SEE SCHEDULE
- PANELBOARD - FLUSH MOUNTED - SEE SCHEDULE
- DISCONNECT SWITCH - SIZE AND FUSES PER MANUFACTURER'S RECOMMENDATIONS (WEATHER- PROOF WHERE LOCATED OUTSIDE).
- MOTOR CONTROLLER - FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SIZE FOR EQUIPMENT CONTROLLED OR AS PER PLANS.
- COMBINATION DISCONNECT SWITCH AND MOTOR CONTROLLER - FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- MOTOR, CONNECT AS REQUIRED - SIZE AS INDICATED IN DRAWINGS.
- CONDUIT RUN CONCEALED BELOW FLOOR OR FINISHED GRADE
- CONDUIT CONCEALED IN CEILING OR WALL
- HOMERUN TO RESPECTIVE PANEL - UNDERGROUND.
- HOMERUN TO RESPECTIVE PANEL - OVERHEAD.
- BRANCH CIRCUIT/HOMERUN HASH MARKS INDICATE NUMBER OF CONDUCTORS. NO HASH MARKS INDICATES 2 #12 AWG, 1 #12 BOND, 1/2" CONDUIT.
- CONDUIT RISER - UP OR DOWN
- S SPEAKER, CEILING MOUNTED
- PHOTOCELL CONTROLLER "TORK" 2100 SERIES. MOUNTED ON ROOF, FACING NORTH.
- TC TIME CLOCK "TORK" #7300ZL, NEMA 3R.
- C LIGHTING CONTACTOR, 20A ELECTRICALLY HELD 120V COIL IN NEMA 1 ENCLOSURE. (WEATHERPROOF WHERE LOCATED OUTSIDE)
- WP WEATHERPROOF.
- WU WHILE-IN-USE COVER.
- GFCI, GFI GROUND FAULT CIRCUIT INTERRUPTER.
- AFCI ARC FAULT CIRCUIT INTERRUPTER.

Plot Date:

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ISSUED	REV	DATE
DART Submittal		15 May 2015
Site Development Plan 1		23 June 2015
30% Schematic Design		30 Oct, 2015
Pre-App & Architectural Board of Review Submittal		23 Apr, 2016
Architectural Board of Review Submittal		25 Jan, 2017
Architectural Board of Review		10 OCT 2022
Building Permit Review		28 AUG 2023

REGISTERED PROFESSIONAL ENGINEER
PAUL D. HALL
NO. E-20361
EXP. 6-30-2025
ELECTRICAL
STATE OF ARIZONA
08-24-23

DRAWING

ELECTRICAL SYMBOLS, ABBREVIATIONS, DRAWING INDEX & SPECIFICATIONS

SCALE
NTS

PROJECT NUMBER
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