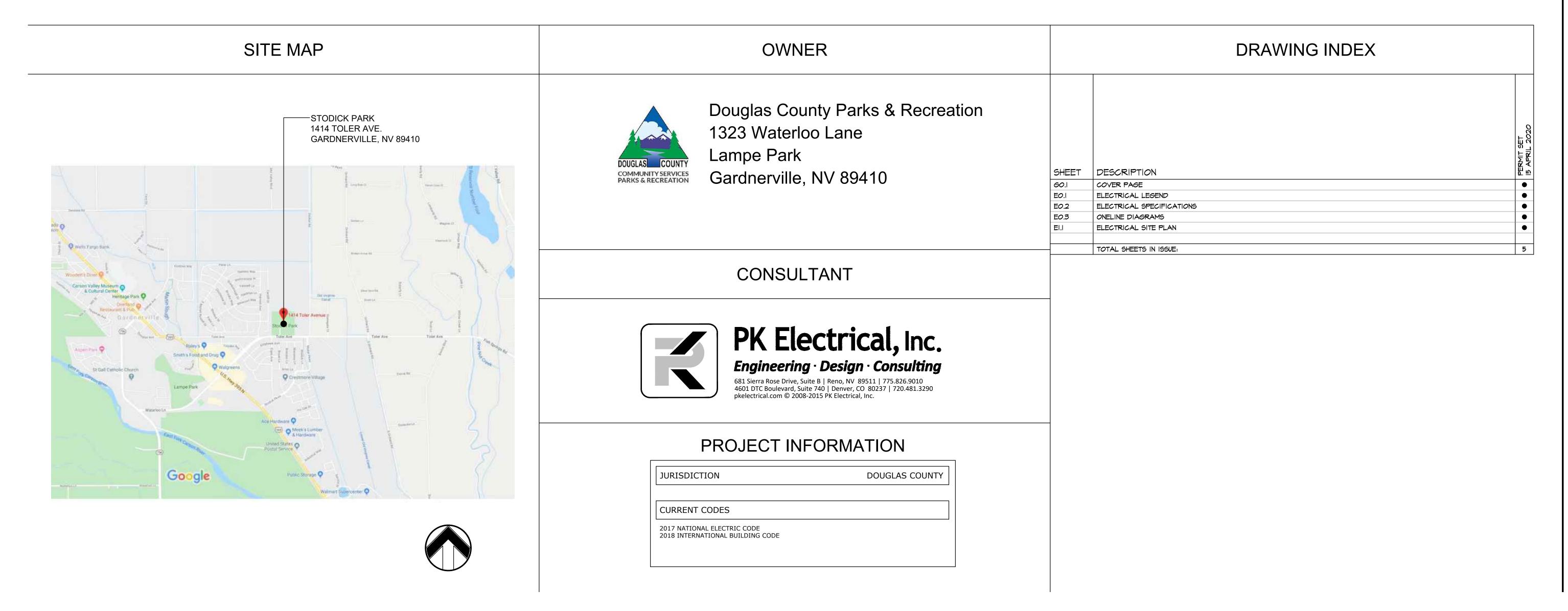
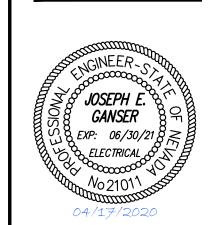
DOUGLAS COUNTY STODICK PARK ELECTRICAL SERVICE MODIFICATION

1414 Toler Ave. Gardnerville, NV 89410

> Permit Set April 15, 2020







JGLAS COUNTY STODICK PAR TRICAL SERVICE MODIFICATION

REVISIONS

SHEET TITLE

 DRAWN:
 TPT

 CHECKED:
 JEG

 DATE:
 4/15/20

 JOB NUMBER:
 19057

 PROJECT MGR:
 SV

G0.1

ELECTRICAL LEGEND AUGUST 2011 GROUND FAULT INTERRUPTER DEVICE SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) PANELBOARD: SURFACE MOUNTED AMERICANS WITH DISABILITIES ACT M ABOVE FINISHED CEILING PANELBOARD: FLUSH MOUNTED DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) METERING DEVICE ARC-FAULT CIRCUIT INTERRUPTER Θ SWITCHBOARD OR DISTRIBUTION PANEL DUPLEX RECEPTACLE: HALF SWITCHED REMOTE METER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE (ST) TRANSFORMER DUPLEX RECEPTACLE: FLOOR MOUNTED SHUNT TRIP DEVICE AUTHORITY HAVING JURISDICTION AMP INTERRUPTING CAPACITY *** PULLBOX / VAULT QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) TRANSFORMER ALUMINUM AUTOMATIC TRANSFER SWITCH CURRENT TRANSFORMER MOTOR STARTER QUAD RECEPTACLE: FLOOR MOUNTED AMERICAN WIRE GAUGE **(6)** ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) . COMBINATION MOTOR STARTER GENERATOR BARE COPPER BREAKER 20A, 125V, NEMA 5-2016, +18" AFF (UNO) MOTOR - # INDICATES HP COMBINATION MOTOR STARTER PROVIDED BY OTHERS CONDUIT/RACEWAY DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI CALIFORNIA ENERGY COMMISSION DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. INTERRUPTER SWITCH +18" AFF (UNO) CKT CIRCUIT NAMEPLATE) GFI-O GROUND FAULT RELAY W/ CT OR SENSOR CEILING DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT) CONDUIT/RACEWAY ONLY DISCONNECT SWITCH - NON-FUSIBLE CURRENT TRANSFORMER SPECIAL PURPOSE RECEPT .: SEE DWGS FOR NEMA CONFIG. CIRCUIT BREAKER DISCONNECT SWITCH PROVIDED BY OTHERS DUPLEX RECEPTACLE: CEILING MOUNTED DISTRIBUTION BOARD VARIABLE FREQUENCY DRIVE DIRECT DIGITAL CONTROLLER <-->> DRAWOUT CIRCUIT BREAKER MULTI-OUTLET ASSEMBLY: SPACING PER DWGS DPDT DOUBLE-POLE, DOUBLE-THROW VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS DOUBLE-POLE, SINGLE-THROW TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) DMG DRAWING ENCLOSED CIRCUIT BREAKER # FOR POLES 2, 3 OR 4 DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA EXISTING TO REMAIN JACK, 2 BLANKS SPD SURGE PROTECTION DEVICE ELECTRICAL GROUND ROD EMERGENCY DATA / VOICE OUTLET: FLOOR MOUNTED SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON ELECTRICAL METALLIC TUBING DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT) NORMALLY OPEN (NO) CONTACT REMOTE METER FULL LOAD AMPS $\overline{ f V} \, \, \overline{ f V} \,$ MULTI-OUTLET ASSEMBLY: SPACING PER DWGS FLEXIBLE METAL CONDUIT (STEEL) NORMALLY CLOSED (NC) CONTACT FUSE PER EQUIP. NAMEPLATE TELEPHONE OUTLET: 18" AFF (UNO) SINGLE POLE SWITCH 48" AFF (UNO) GROUND FAULT INTERRUPT COIL - VOLTAGE PER CONTROL DIAGRAMS GROUND FAULT RELAY DATA OUTLET: 18" AFF (UNO) THREE WAY SWITCH 48" AFF (UNO) PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES GND GROUND HID HIGH INTENSITY DISCHARGE SPEAKER COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW) FOUR WAY SWITCH 48" AFF (UNO) HOA HAND-OFF-AUTO SWITCH TELEVISION OUTLET: 18" AFF (UNO) HORSEPOWER KEY OPERATED SWITCH 48" AFF (UNO) PILOT LIGHT (LED) NON PUSH-TO-TEST HOUSEKEEPING TELEPHONE TERMINAL BOARD (TTB) SWITCH WITH LIGHTED HANDLE INTERMEDIATE METAL CONDUIT THERMAL OVERLOAD J-BOX JUNCTION BOX VOLUME CONTROL MANUAL MOTOR STARTER kcmil (300K = 300 kcmil) GROUNDING BAR KVA KILOVOLT AMPS SWITCH WITH PILOT LIGHT 48" AFF (UNO) KILOWATT LTG LIGHTING PUSH BUTTON NORMALLY OPEN (NO) TIME WALL SWITCH 48" AFF (UNO) ISOLATED GROUND LIGHTING FIXTURE - LOWERCASE LETTER DENOTES DIMMER OPERATED SWITCH 48" AFF (UNO) MAIN CIRCUIT BREAKER PUSH BUTTON NORMALLY CLOSED (NC) SWITCHING (a = CENTER LAMP, b = OUTER LAMPS) THOUSAND CIRCULAR MILS OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO) WALL MOUNTED FIXTURE MANUFACTURER 05 MAIN LUGS ONLY = 360° OCCUPANCY SENSOR - CEILING MOUNTED. RECESSED DOWNLIGHT MOTOR STARTER ARROWS INDICATE COVERAGE, DIRECTION \$ HAND-OFF-AUTO (HOA) SELECTOR SWITCH MAIN SWITCHBOARD PATTERN. PROVIDE WITH POWER PACK PER SURFACE LUMINAIRE MANUAL TRANSFER SWITCH MFG REQUIREMENTS. = 90° NORMALLY CLOSED POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING) NATIONAL ELECTRICAL CODE LIMIT SWITCH NORMALLY OPEN (NO) CONTROL STATION NATIONAL ELECTRICAL \vdash FLUORESCENT STRIP FIXTURE MANUFACTURER'S ASSOCIATION CONTACTOR OR RELAY \boxtimes LIMIT SWITCH NORMALLY CLOSED (NC) BOLLARD NOT IN CONTRACT NIGHTLIGHT PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO) RECESSED DOWNLIGHT (WALL WASH) NORMALLY OPEN TIMECLOCK NOT TO SCALE TRACK LIGHTING PUSH BUTTON ILLUMINATED (LED) NYE NY ENERGY EMERGENCY LIGHTING UNIT 0 0 ----- CONDUIT/RACEWAY IN WALL OR ABOVE CEILING PHASE EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE PHOTOVOLTAIC TICS = NO. OF #12 WIRES (UNO) IF MORE THAN --- CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR ARROWS DENOTE DIRECTION PANEL TWO WITHIN RACEWAY. GROUNDING PV USA TEST CONDITIONS CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED. CONDUIT/RACEWAY UP EMERGENCY FIXTURE RELOCATED CONDUIT/RACEWAY DOWN - ISOLATED GROUNDING CONDUCTOR RAC RIGID ALUMINUM CONDUIT -NEUTRAL CONDUCTOR THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO) BREAK OR RUN CONTINUES RIGID FIBERGLASS CONDUIT PHASE CONDUCTOR(S) RIGID STEEL CONDUIT JUNCTION BOX (SIZE AS REQUIRED UNO) -OH- OVERHEAD SERVICE SERVICE ENTRANCE BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHEET NOTE DESIGNATION SURGE PROTECTION DEVICE SHOWN) = (I) PHASE, (I) NEUTRAL AND (I) - P - PRIMARY SINGLE-POLE, DOUBLE-THROW GROUNDING CONDUCTOR FIXTURE DESIGNATION: FI=TYPE (SEE FIXTURE SCH.) SINGLE-POLE, SINGLE-THROW — S — SECONDARY STC STANDARD TEST CONDITIONS HOMERUN TO PANELBOARD OR DEVICE REVISION DELTA: NUMBER REPRESENTS REVISION - C - COMMUNICATIONS OR SIGNAL SM TELECOM HA-[1,3,5,3N]G HOMERUN CIRCUIT DESIGNATION (1253) — T — TELEPHONE FEEDER DESIGNATION TELEPHONE TERMINATION BOARD TYPICAL TV- TELEVISION -GROUNDING CONDUCTOR EQUIPMENT CONNECTION UNDERWRITER'S LABORATORY - NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, - • - LOW YOLTAGE AND/OR CONTROL WIRING UNLESS NOTED OTHERWISE 3N=3 NEUTRALS) UNSM UNSWITCHED -PHASE CONDUCTOR(S) -*-*- EMERGENCY CIRCUIT UNINTERRUPTED POWER SUPPLY UPS -PANELBOARD DESIGNATION L = LIGHTING 20 SINGLE POLE CIRCUIT BREAKER **VOLTS** R = RECEPTACLES **VOLT AMPS** 20/2 TWO POLE CIRCUIT BREAKER HA-(1.3.5)G HOMERUN CIRCUIT DESIGNATION E = EQUIPMENT VARIABLE FREQUENCY DRIVE [----] CONDUIT/RACEWAY SLEEVE (3 PHASE CIRCUIT SHOWN) 20/3 THREE POLE CIRCUIT BREAKER M = MOTORWEATHER PROOF 20A ARC FAULT CIRCUIT BREAKER MI = LARGEST MOTOR -GROUNDING CONDUCTOR EXISTING TO BE REMOVED 20C CONTROLLABLE CIRCUIT BREAKER -PHASE CONDUCTOR(S) K = KITCHEN EQUIP

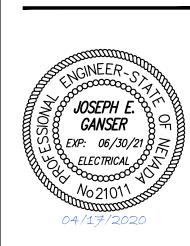
H = ELECTRIC HEAT

20G GFI CIRCUIT BREAKER

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.



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XFMR OR XF TRANSFORMER

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-PANELBOARD DESIGNATION

REVISIONS

SHEET TITLE

ELECTRICAL LEGEND

JE6 4/15/20 19057 PROJECT MGR:

THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.

TIGHT FLEXIBLE METAL CONDUIT.

STORAGE SPACE IS AVAILABLE THEN THE CONTRACTOR SHALL COVER THE COST FOR OFF

SITE STORAGE. MATERIALS STORED AT THE PROJECT SITE THAT BECOMES SOILED WITH CONSTRUCTION DIRT, CONCRETE, OR MOISTURE SHALL BE REMOVED FROM THE SITE AND

REPLACED WITH NEW. DO NOT INSTALL SOILED MATERIAL.

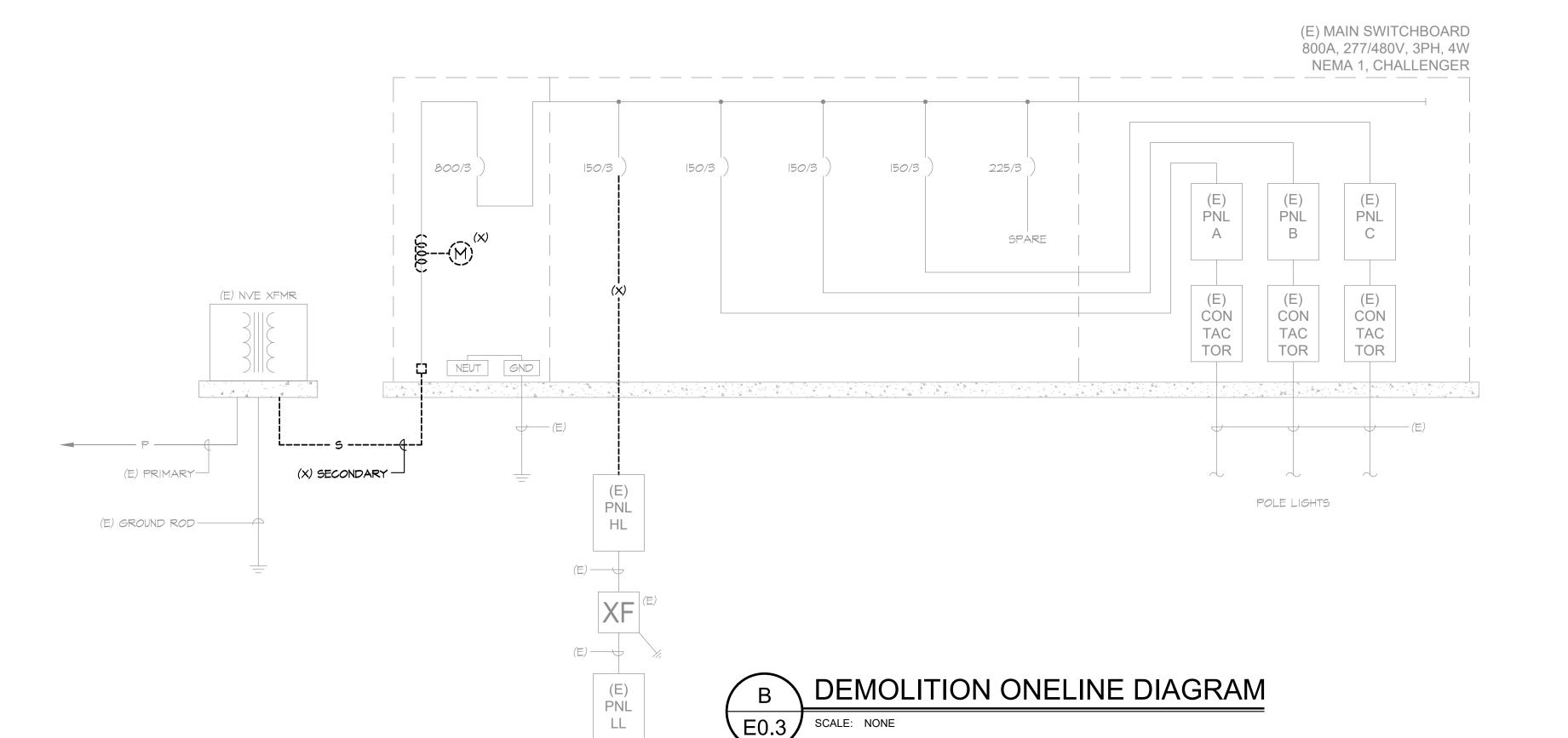
- INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONFLICTS BETWEEN CONTRACT DOCUMENTS AND THESE RECOMMENDATIONS SHALL BE REFERRED TO ENGINEER FOR REMEDY. ELECTRICAL OR ELECTRONIC EQUIPMENT THAT HAS BEEN DAMAGED, EXPOSED TO WEATHER OR IS, IN THE OPINION OF THE ENGINEER OR ARCHITECT, OTHERWISE UNSUITABLE BECAUSE OF IMPROPER FABRICATION, STORAGE OR INSTALLATION SHALL BE REMOVED AND REPLACED BY
- PROVIDE ANCHORS FOR ALL EQUIPMENT, RACEWAYS, HANGERS, ETC. TO SAFELY SUPPORT WEIGHT OF ITEM INVOLVED PLUS 100% FOR DEAD LOADS, LIVE LOADS SHALL BE CONSIDERED
- ANCHORS TO CONSIST OF EXPANSION TYPE DEVICES SIMILAR TO "REDHEAD" OR LEAD
- USE PRESET ANCHOR STEEL INSERTS IN CONCRETE SLABS. PROVIDE PRESET ANCHOR SIZE AND TYPE FOR ANTICIPATED OR SPECIFIED ROD/BOLT SIZE AND LIVE/DEAD LOAD.
- FURNISH 2500 # CONCRETE PADS, 4" HIGH (INTERIOR LOCATIONS) OR 6" HIGH (EXTERIOR LOCATIONS) UNLESS OTHERWISE NOTED, FOR ALL FREESTANDING EQUIPMENT, I.E. SWITCHBOARDS, PANELS, CONTROL PANELS, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC. PADS SHALL HAVE I" X 45° CHAMFERED EDGES, AND SHALL EXTEND 2" TO 4" BEYOND EQUIPMENT MOUNTINGS.
- CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN WIPE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, OUTLET BOXES, AND PANELBOARD BACKBOXES SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING. TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER.
- CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE-SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO
 - EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH
- RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE
- PRIOR TO PLACING IN SERVICES, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD.
- PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS
 - DESIGNATION (I.E. PANEL A); FUNCTION (I.E. AIR HANDLER AH-I); VOLTAGE, PHASE, WIRE (I.E. 480 VOLT, 3 PHASE, 4W); FEEDER SIZE (I.E. 4-#4/0 THWN CU IN 2" C); SOURCE (I.E.
- INDICATE SYSTEM VOLTAGE AND CONTAINED CIRCUITS ON OUTSIDE OF BOX COVER. USE SELF-ADHESIVE MARKING TAPE LABELS AT EXPOSED LOCATIONS AND INDELIBLE BLACK MARKER AT CONCEALED BOXES. ALL FIRE ALARM BOXES SHALL HAVE COVERS PAINTED RED ALL TEMPERATURE CONTROL BOXES SHALL HAVE COVERS PAINTED BLUE. BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND PULL BOX
- JUNCTION BOX COVERS IN BRANCH CIRCUIT WIRING SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBERS. JUNCTION BOX COVERS FOR SPECIAL SYSTEMS SHALL BE LABELED WITH SYSTEM NAME AND OTHER IDENTIFICATION AS DIRECTED; FOR EXAMPLE, "FIRE ALARM-ZONE I WHERE BOXES ARE INSTALLED FLUSH MOUNTED IN FINISHED AREAS OR SURFACE MOUNTED IN
- UNFINISHED AREAS, LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELIBLE MARKER. DEVICE PLATES - SMITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH
- CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION
- ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. ANY EQUIPMENT SELECTED BY OWNER SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE
- THIS PROJECT IS SUBJECT TO THE SEISMIC BRACING REQUIREMENT OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION. THE FOLLOWING CRITERIA ARE APPLICABLE TO THIS PROJECT: SEISMIC USE GROUP: II; SEISMIC CLASS CATEGORY: D; SEISMIC DESIGN CATEGORY: D. IT IS RECOMMENDED THAT THE CONTRACTOR ENLIST THE SERVICES OF A QUALIFIED SEISMIC
- BRACING VENDOR/ SUPPLIER, PROVIDE BRACING FOR IDENTIFIED EQUIPMENT AND SYSTEM. ELECTRICAL EQUIPMENT: ELECTRICAL EQUIPMENT SHALL INCLUDE THE FOLLOWING ITEMS TO THE EXTENT REQUIRED ON THE DRAWINGS OR IN OTHER SECTIONS OF THESE SPECIFICATIONS TO BE
- ELECTRICAL SYSTEMS: THE FOLLOWING ELECTRICAL SYSTEMS SHALL BE SEISMICALLY PROTECTED IN ACCORDANCE WITH THIS SPECIFICATION:
- CONDUITS REQUIRING NO SPECIAL SEISMIC RESTRAINTS: SEISMIC RESTRAINTS MAY BE OMITTED FROM ELECTRICAL CONDUIT LESS THAN 2-1/2 INCHES TRADE SIZE. ALL OTHER INTERIOR

REVISIONS

SHEET TITLE ELECTRICAL

SPECIFICATIONS

JE6 4/15/20 19057 PROJECT MGR:



SCALE: NONE

DEMOLITION GENERAL NOTES

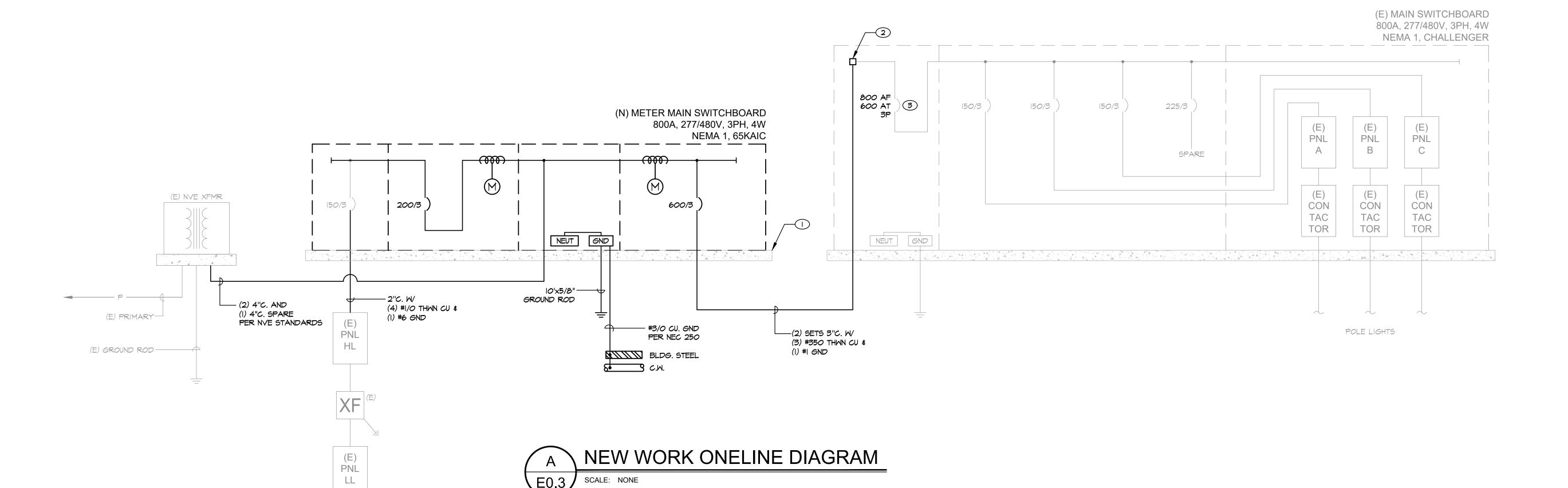
- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- 2. | SALVAGEABLE EQUIPMENT REMOVED DURING DEMOLITION SHALL BE OFFERED TO THE OWNER PRIOR TO REMOVAL FROM SITE.

NEW WORK GENERAL NOTES

- (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL CONDUCTORS ARE BASE ON COPPER. ALUMINUM IS NOT PERMITTED.
- DO NOT SPLICE FEEDER CONDUCTORS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM ENGINEER.
- 4. | COORDINATE ALL POWER OUTAGES WITH OWNER AND NV ENERGY PRIOR TO COMMENCING WORK.

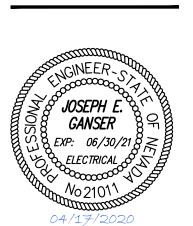
NEW WORK SHEET NOTES

- CONTRACTOR SHALL PROVIDE CONCRETE EQUIPMENT PAD PER MANUFACTURER'S REQUIREMENTS.
- 2 INSTALL PRESSURE TERMINALS IDENTIFIED FOR USE BUS AND CONDUCTOR MATERIALS. ALL CONNECTIONS SHALL BE TORQUE TIGHTENED PER MANUFACTURER'S REQUIREMENTS. PROVIDE THIRD PARTY TESTING AND CERTIFICATION OF SWITCHBOARD MODIFICATIONS. VERIFICATION OF THIRD PARTY TESTING AND CERTIFICATION OF SWITCHBOARD MODIFICATIONS WILL BE REQUIRED ON SITE AT TIME OF FINAL INSPECTION.
 - CONTRACTOR SHALL REPLACE EXISTING 800A TRIP RATED PLUG WITHIN EXISTING 800A FRAME BREAKER WITH NEW 600A RATED TRIP PLUG TO COINCIDE WITH NEW 600A NVE METER SECTION.





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REVISIONS

SHEET TITLE

ONELINE DIAGRAMS

JEG 4/15/20 19057 PROJECT MGR:

E0.3

GENERAL NOTES

- I. (E) AND/OR HALFTONE LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- 2. CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH 'PARKS & RECREATION' PRIOR TO COMMENCING WORK.

SHEET NOTES

—(E) PNL HL —(E) XFMR —(E) PNL LL

—(E) MAIN SWITCHBOARD

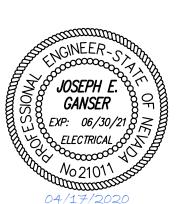
- SEE NEW ONLINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES.
- 2 INSTALL CONDUIT PER NVE STANDARDS. COORDINATE WITH NVE PRIOR TO INSTALL.



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FICATION PARK

ECTRICAL SERVICE MODIFIC
1414 Toler Ave.

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SHEET TITLE
ELECTRICAL SITE PLAN

DRAWN: TPT

CHECKED: JEG

DATE: 4/15/20

JOB NUMBER: 19057

E1.1