

I:\RDY - 11:25 AM - j:\current\jobs\labe-23023011 - psc building 2 main gear replacement\Drawings\work\psa\Sheets\E001 LEGEND AND NOTES.dwg
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ABBREVIATIONS	
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
A	AMPERE
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECT
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FURN	FURNITURE
GC	GENERAL CONTRACTOR
GFC	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUNDING
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ (CYCLE) PER SECOND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LIG	LIGHTING
LV	LOW VOLTAGE
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND
	GROUND TRIP UNITS
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
Ø	PHASE
PNL	PANELBOARD
PR	PRIMARY
RTU	ROOFTOP UNIT
SEC	SECONDARY
SW	SWITCH
UG	UNDERGROUND
V	VOLT
W	WATT
XFMR	TRANSFORMER
+48"	MOUNTING HEIGHT IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE. VALUE MAY VARY.

POWER DISTRIBUTION SYMBOLS	
	SURFACE MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	SURFACE MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
	DRY TYPE TRANSFORMER; SIZE AND RATING AS NOTED
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
POWER DISTRIBUTION DESIGNATIONS	
	LETTERS "P1" INDICATE PANEL LABEL; REFER TO ELECTRIC EQUIPMENT NAMEPLATE DETAIL FOR FULL NAMEPLATE REQUIREMENTS
	SIZE NOTED AS "AMPERAGE/POLES/NEMA" (I.E. 30/3/1 SHALL INDICATE 30A, 3 POLE, NEMA 1)
RACEWAY SYMBOLS	
FLR CLG WALL	
	JUNCTION BOX
	CONDUIT CAP
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	RACEWAY INSTALLED CONCEALED IN WALLS/ABOVE CEILING
	RACEWAY INSTALLED CONCEALED BELOW GRADE/SLAB/FLOOR
	RACEWAY INSTALLED EXPOSED
	FLEXIBLE CONDUIT CONNECTION
	FLEXIBLE CONDUIT CONNECTION; STUBBED UP FROM FLOOR
RACEWAY DESIGNATIONS	
	"EM" INDICATES EMERGENCY RACEWAY
	TICK MARKS REPRESENT WIRE COUNT. EACH TICK MARK REPRESENTS ONE(1) PHASE CONDUCTOR AND/OR GROUNDED (NEUTRAL) CONDUCTOR. DOTTED TICK MARK REPRESENTS EQUIPMENT GROUNDING CONDUCTOR. UNLESS NOTED OTHERWISE, NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 3/4" CONDUIT.
	RACEWAY WITH ARROW INDICATES HOMERUN TO PANEL. "PNL-##" INDICATES PANEL AND SPACE NUMBER FOR CIRCUIT.
GROUNDING SYMBOLS	
	GROUND ROD
	LIGHTNING PROTECTION STRIKE TERMINATION/AIR TERMINAL
	GROUNDING ELECTRODE/GROUNDING ELECTRODE SYSTEM

ELECTRICAL GENERAL NOTES

- A. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- B. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
- C. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- D. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
- E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
- F. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- G. PROVIDE BUSHINGS ON ALL CONDUIT.

ELECTRICAL DEMOLITION NOTES

1. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED WITH THE FACILITY PERSONNEL IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE.
2. ALL DEMOLITION WORK REQUIRED SHALL BE PERFORMED WITH CARE SO AS NOT TO INTERRUPT OTHER EXISTING SERVICES (WATER, GAS, ELECTRICAL, SEWER, SPRINKLERS, ETC.). IF ACCIDENTAL UTILITY INTERRUPTION, DAMAGE, ETC., RESULTS FROM WORK PERFORMED BY THE CONTRACTOR, THE AFFECTED UTILITY OR SERVICE SHALL BE RETURNED TO ITS ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR, USING SKILLED WORKMEN OF THE TRADE INVOLVED.
3. REMOVE ALL OUTLETS, PULL BOXES, JUNCTION BOXES, ETC., AS REQUIRED TO COMPLETELY REMOVE THE ELECTRICAL ITEMS SHOWN FOR DEMOLITION UNLESS NOTED TO REMAIN. DISCONNECT AND REMOVE ALL ELECTRICAL PROVISIONS TO EQUIPMENT BEING REMOVED.
4. REMOVE ALL WIRING, CONDUIT, RACEWAYS, OUTLET BOXES, SUPPORTING APPARATUS ETC., AS REQUIRED.
5. SYMBOLS SHOWN ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
6. EXISTING BRANCH WIRING SHOWN IS DIAGRAMMATICAL ONLY AND IS BASED UPON EXISTING AS-BUILT DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR NUMBER OF CONDUCTORS PER CONDUIT AND EXACT LOCATIONS OF CONDUIT RUNS AND EQUIPMENT.
7. ALL FEEDERS, SYSTEMS, CONTROL WIRING, MISCELLANEOUS AUXILIARY SYSTEMS, ETC., PASSING THROUGH THE AREA OF WORK SHALL BE MAINTAINED AT ALL TIMES, REMAIN IN SERVICE, CONTINUOUS AND UNINTERRUPTED. ANY DAMAGE, DISRUPTION OR DISCONNECTION SHALL BE IMMEDIATELY REPAIRED, REPLACED AND/OR REROUTED AS REQUIRED TO MAINTAIN CONTINUITY OF SYSTEMS. ANY EXISTING SERVICE OR OPERATING SYSTEM WHICH MUST BE INTERRUPTED SHALL BE SUPPLIED WITH A TEMPORARY SERVICE FOR CONTINUATION OF THE NORMAL OPERATIONS OF THE FACILITY.
8. ANY EQUIPMENT THAT REQUIRES REMOVAL FROM EXISTING LOCATION FOR RE-USE OR TO BE RETURNED TO OWNER SHALL BE INSPECTED AND TESTED TO CONFIRM EQUIPMENT OPERATES AS INTENDED. OWNER SHALL BE NOTIFIED OF ANY EQUIPMENT THAT DOES NOT OPERATE AS INTENDED BEFORE REMOVAL.
9. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.
10. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL CONDITIONS.
11. IN GENERAL, THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - a. PROVIDE ALL DEMOLITION AS REQUIRED OF EXISTING SYSTEMS REMOVING ALL ITEMS THAT CONFLICT WITH FINISHED DESIGN INTENT AS INDICATED ABOVE.
 - b. MODIFY, REPLACE, REPAIR, REVISE ETC., EXISTING SYSTEMS AND/OR EQUIPMENT.
 - c. EXTEND EXISTING SYSTEMS AS REQUIRED TO FUNCTION AS SPECIFIED AND IN ACCORDANCE WITH SYSTEM REQUIREMENTS.
 - d. NEW SYSTEM COMPONENTS SHALL MATCH EXISTING SYSTEMS PROVISIONS AND BE COMPLETELY COMPATIBLE AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. WHEN REQUIRED, APPROVAL FROM A SYSTEM MANUFACTURER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO INSTALLING ANY NEW EQUIPMENT OR DEVICES TO AN EXISTING SYSTEM.
 - e. ALL EQUIPMENT, DEVICES, OUTLETS, COMPONENTS, ETC., TO BE REUSED SHALL BE CLEANED, REPAIRED AND PLACED IN OPERATING CONDITION. LUMINARIES NOTED TO BE REUSED SHALL BE CLEANED, REPAIRED, PROVIDED WITH NEW LAMPS AND PLACED IN OPERATING CONDITION.
 - f. EXISTING OUTLET BOXES MAY BE USED AS NOTED IF OF THE PROPER CONFIGURATION AND SIZE REQUIRED. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
 - g. EXISTING PANELBOARDS SHALL BE UTILIZED TO THE EXTENT SHOWN ON THE DRAWINGS AND MODIFIED AS REQUIRED TO FACILITATE THE NEW REQUIREMENTS AS INDICATED HEREIN OR SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER, FRAME SIZE, SHORT CIRCUIT RATING AND TYPE AS EXISTING. WHERE APPLICABLE, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ADDITIONAL MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER.
 - h. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.

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23011

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SEAL:

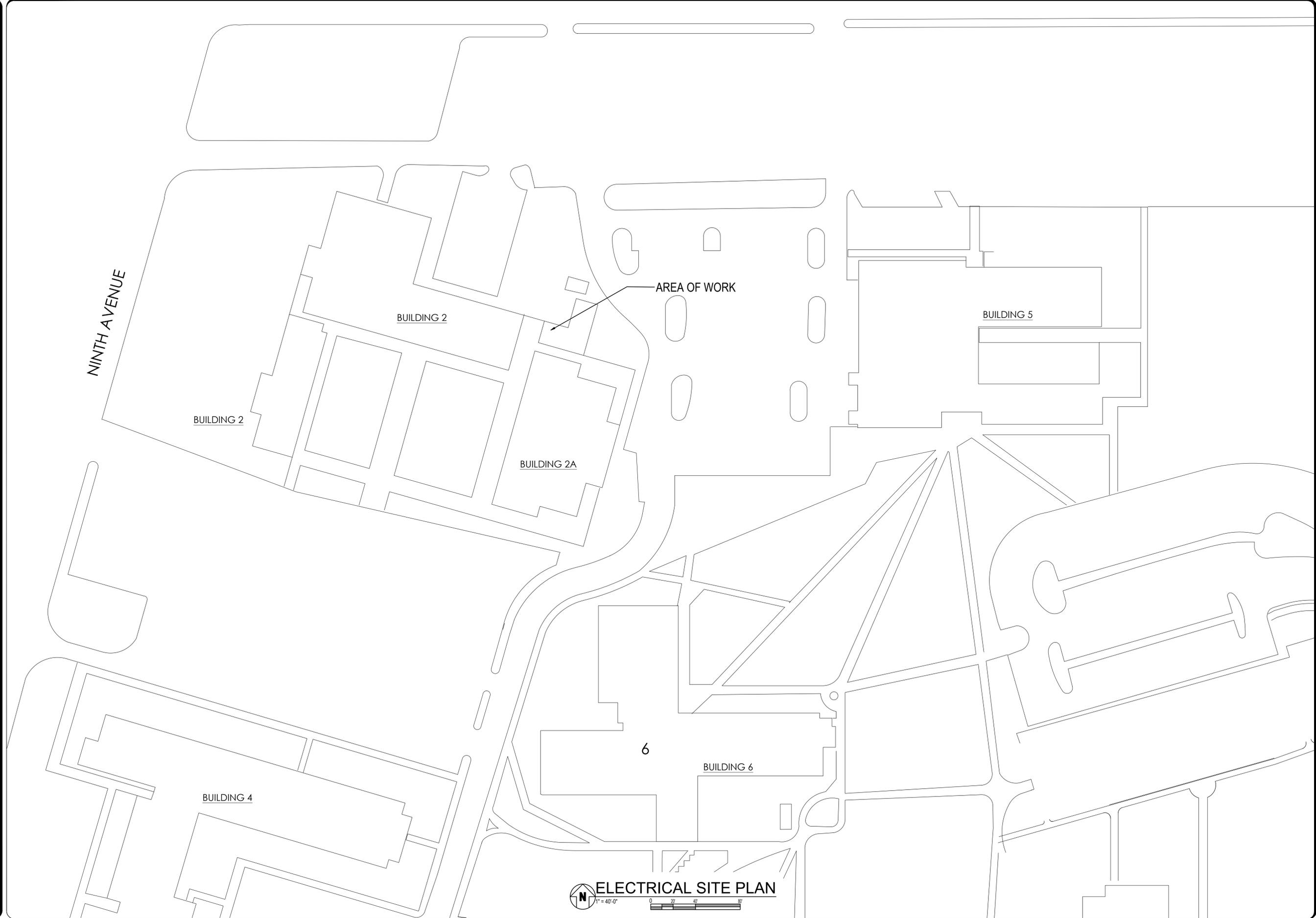
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LEGEND AND NOTES

E001

I:\RDY - 11:25 AM - j:\current\jobs\labe-230311 - psc building 2 main gear replacement\Drawings\workingsat\Sheets\E101 ELECTRICAL SITE PLAN.dwg
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ELECTRICAL SITE PLAN

E101

ELECTRICAL SITE PLAN
1" = 40'-0"

I:\RDY - 11:25 AM - j:\current\jobs\2303011 - psc building 2 main gear replacement\Drawings\workings\Sheets\E201 - ELECTRICAL NEW WORK PLAN.dwg
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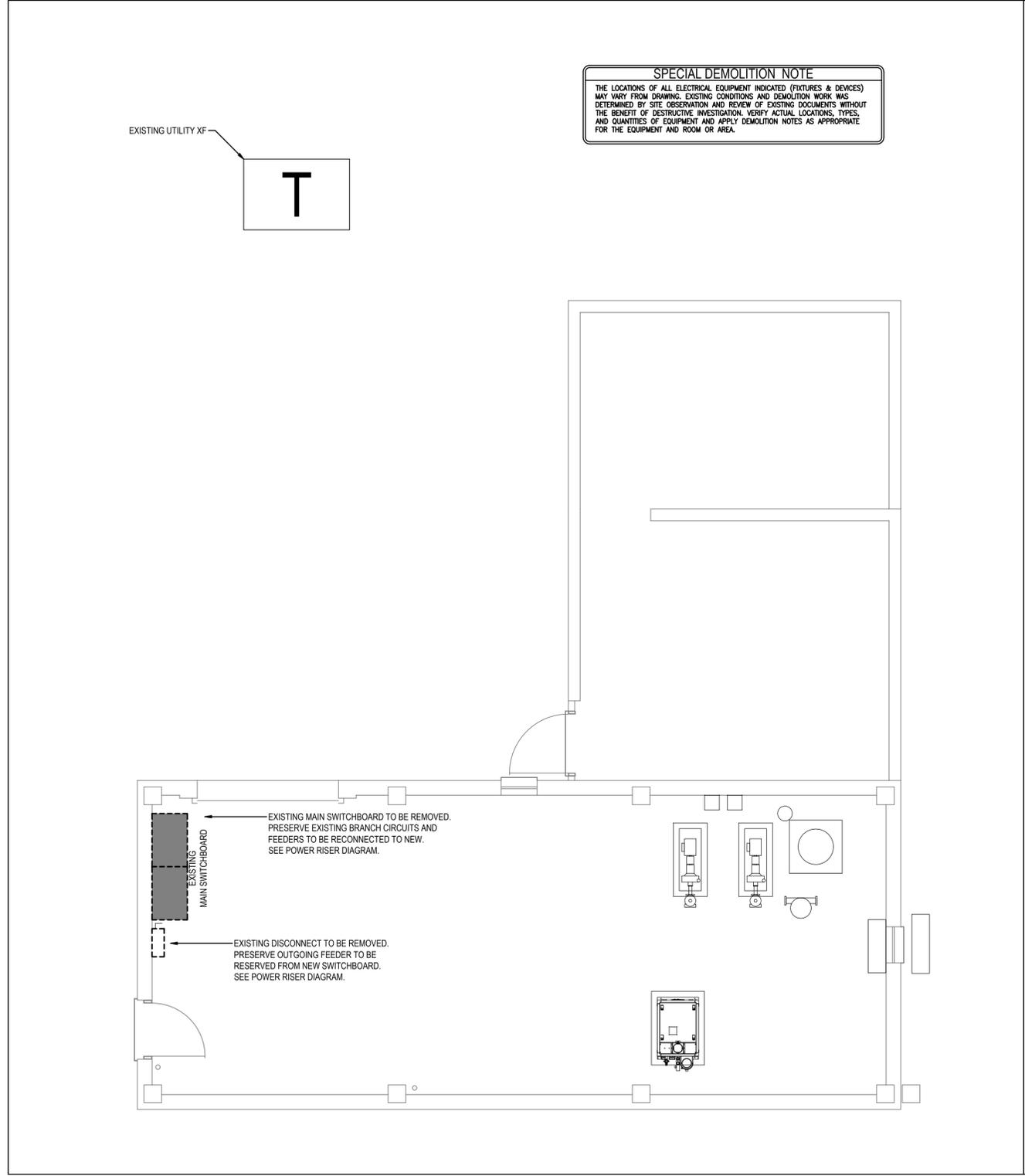
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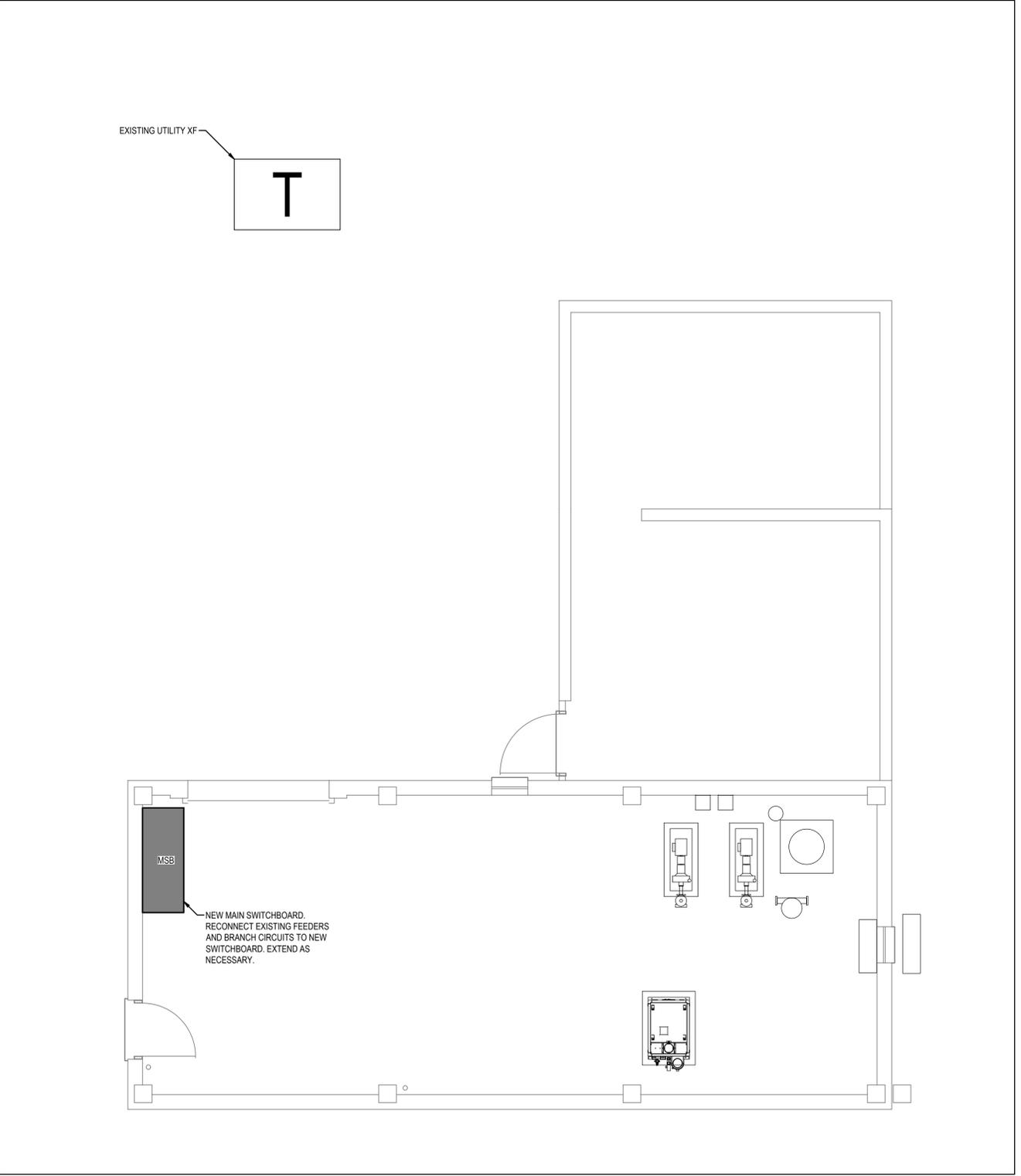
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ELECTRICAL WORK PLAN

E201

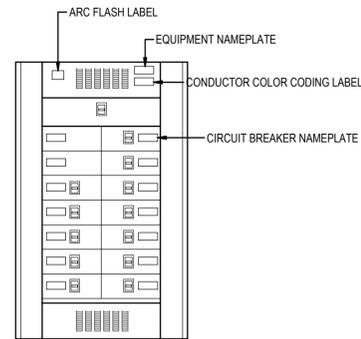


ELECTRICAL DEMOLITION PLAN
 1/4" = 1'-0" 0 2 4 8



ELECTRICAL WORK PLAN
 1/4" = 1'-0" 0 2 4 8

L:\RDY - 11:25 AM - j:\current\jobs\labe-23011 - psc building 2 main gear replacement\Drawings\workspac\Sheets\E301 ELECTRICAL DETAILS.dwg
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NOTES

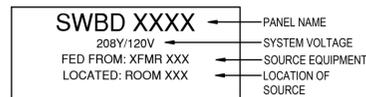
1. PROVIDE SWITCHBOARD NAMEPLATE FOR NEW SWITCHGEAR AND SWITCHBOARDS INSTALLED.
2. PROVIDE ARC FLASH LABEL FOR NEW SWITCHGEAR AND SWITCHBOARDS INSTALLED.
3. IF SYSTEM HAS MORE THAN ONE NOMINAL VOLTAGE SYSTEM INSTALL COLOR CODING LABEL. LABEL MAY BE INSTALLED ON INSIDE OF SWITCHBOARD DOOR IF NEEDED.

SWITCHBOARD LABELING

NTS

NOTES

1. PROVIDE LABEL FOR ALL SWITCHBOARDS FEED FROM A FEEDER
2. SEE EQUIPMENT NAMEPLATES DETAIL FOR TEXT/PANEL HEIGHT AND COLOR



SWITCHBOARD NAMEPLATES

NTS

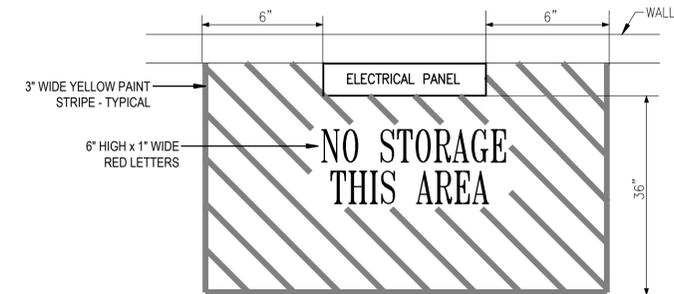
NOTES

1. PROVIDE LABEL FOR CIRCUIT BREAKERS IN SWITCHBOARDS AND SWITCHGEAR
2. 1/4" BLACK LETTERS ON WHITE PANEL



CIRCUIT BREAKER NAMEPLATES

NTS

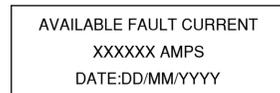


TYPICAL FLOOR MARKING AT ELECTRICAL PANELS

NTS

NOTES

1. PROVIDE NAMEPLATE ON SERVICE EQUIPMENT AS REQUIRED BY NEC 110.24(A). SEE ARC FLASH LABEL DETAIL
2. 1/4" WHITE LETTERS ON BLACK PANEL.

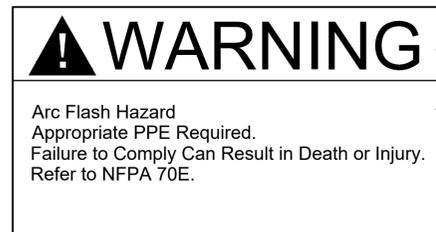


AVAILABLE FAULT CURRENT

NTS

NOTES

1. PROVIDE LABEL IF NOT PROVIDED BY MANUFACTURER.
2. PROVIDE ARC FLASH LABEL FOR EACH PIECE OF NEW EQUIPMENT AS REQUIRED BY 110.16(A)
3. SIGNAL WORD LETTER HEIGHT MUST BE 50% TALLER THAN MESSAGE PANEL TEXT HEIGHT
4. SIGNAL WORD LETTERS MUST BE UPPERCASE AND USE SANS SERIF FONT.



ARC FLASH LABELS

NTS

SIGNAL WORD SHALL BE BLACK LETTERS ON ORANGE PANEL

MESSAGE PANEL SHALL BE BLACK LETTERS ON WHITE BACKGROUND.

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ELECTRICAL DETAILS

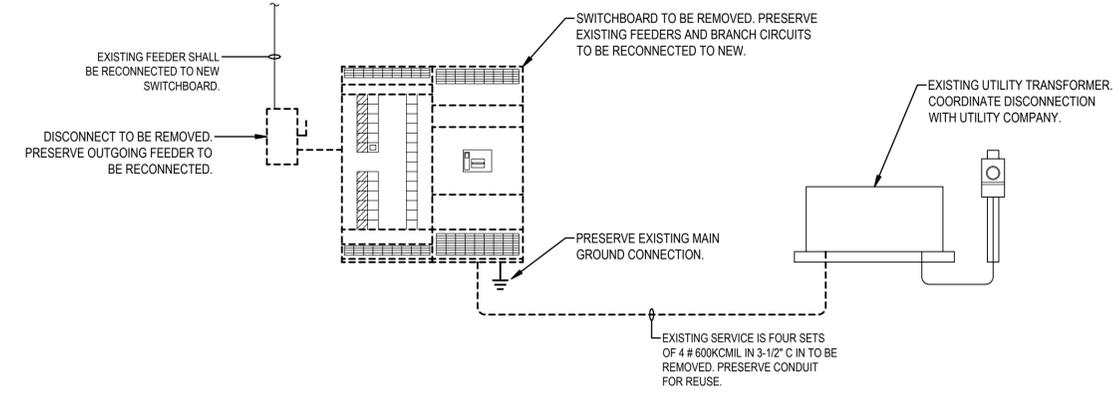
E301

LRDY - 11:25 AM - j:\current\pals\lobs\2303011 - psc building 2 main gear replacement\Drawings\workings\Sheets\E401 SINGLE LINE POWER RISER & PANEL SCHEDULE.dwg
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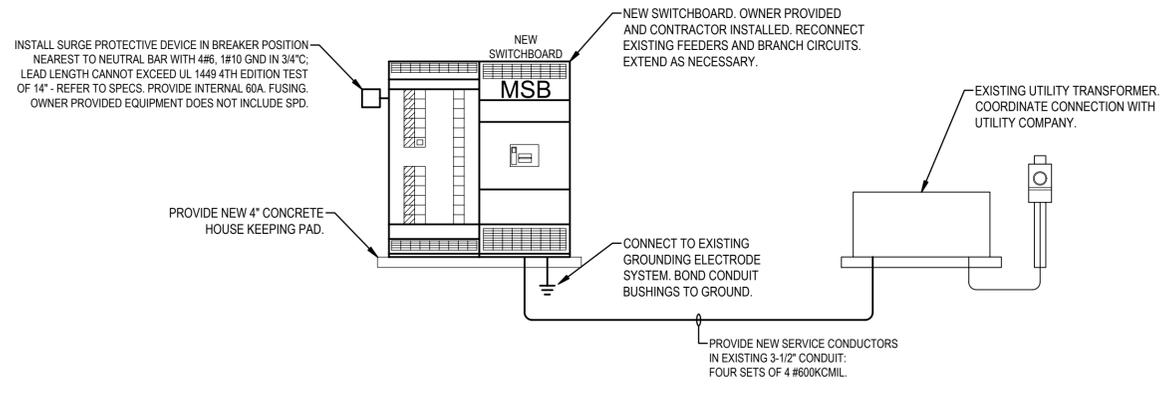
NEW MAIN SWITCHBOARD - OWNER PROVIDED AND CONTRACTOR INSTALLED				
MSB		SYSTEM	208/120V	3Φ 4W
		RATING	1600A	M.C.B. 42,000 AIC MINIMUM
		ENCLOSURE	NEMA 1	FREE STANDING
		OPTIONS	BOLT ON BREAKERS; SERVICE RATED	
CKT #	SERVING	CKT BKR		
		UNIT	TRIP	POLE
1	UNIT 2 LECTURE ROOMS	LSI	400	3
2	PANEL MP	LSI	600	3
3	HWP-2-1		35	3
4	HWP-2-2		35	3
5	EXIT LIGHTS		20	3
6	BOILER ROOM LIGHTS		20	1
7	BOILER B-2-1		20	1
8	TRANE CONTROLS		20	1
9	MINI SPLIT DAC-2-1		30	2
10	UNKNOWN		20	1
11	UNKNOWN		20	1
12	UNKNOWN		20	1
13	UNKNOWN		20	1
14	UNKNOWN		20	1
15	SPARE	LSI	400	3
16	SPARE	LSI	250	3
17	SPARE	LSI	250	3
18	SURGE PROTECTION		60	3

NOTES:
 1 MAIN BREAKER SHALL HAVE LSI TRIP UNITS. COORDINATE FINAL SETTINGS WITH ENGINEER OF RECORD.
 2 TRACE AND VERIFY ALL EXISTING UNKNOWN CKTS. PROVIDE APPROPRIATE NAMEPLATE ON SWITCHBOARD NEXT TO SERVING BREAKER.
 3 PROVIDE ALL BREAKERS 400A AND GREATER WITH BACNET CAPABILITY OR BACNET CAPABLE METER FOR SUCH BREAKERS.
 4 SWITCHBOARD SHALL HAVE DIGITAL METER ON THE MAIN BREAKER BUILT INTO THE GEAR.
 5 CONTRACTOR SHALL ENGAGE MANUFACTURER TO COMPLETE STARTUP SERVICES. STARTUP SERVICES ARE INCLUDED WITH THE SWITCHBOARD PROVIDED BY

SPECIAL NOTE
 ALL CONTRACTORS SHALL CONDUCT A PREBID WALK THROUGH OF THE PROJECT AREA.



PARTIAL POWER RISER - DEMO
 NTS



PARTIAL POWER RISER - NEW
 NTS

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SINGLE LINE POWER
 RISER & PANEL SCHEDULE

E401