

Jobs Year	2014	14509	ES001.dwg
Date	04/04/14	02/28/14	
ADDITIONAL #			
100% CONSTRUCTION DOCUMENTS			

CONSULTANTS:

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Stamp and Signature

ARCHITECT/ENGINEERS:

KPA
ENGINEERS ARCHITECTS
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OTHE: KPA GROUP 2019
KPA Project No. 87800

Project Title: EMERGENCY STORAGE RELOCATION

Location: 1801 MIRANDA AVENUE, PALO ALTO, CA

Project Number: 640-14-009

Building Number:

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

Date: 02/28/2014

Checked: SAJ/ME

Drawn: PMA TEAM

DWG #: ES001

Office of Construction and Facilities Management

100% CONSTRUCTION DOCUMENTS

NEW PANEL "F"

TYPE	DESCRIPTION	VA	AMPS	P	No.	PH	AMP	P	VA	DESCRIPTION	TYPE
R	REC. TRAILER	4800	50	3	1	A	2	20	1	900 STORAGE CIRCUITS	R
R	CHARGING STATION	3300	40	2	13	A	14	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	19	A	20	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	21	B	22	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	23	C	24	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	25	A	26	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	27	B	28	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	29	C	30	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	31	A	32	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	33	B	34	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	35	A	36	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	37	B	38	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	39	A	40	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	41	C	42	20	1	SPRINKLER	R

LOAD SUMMARY:

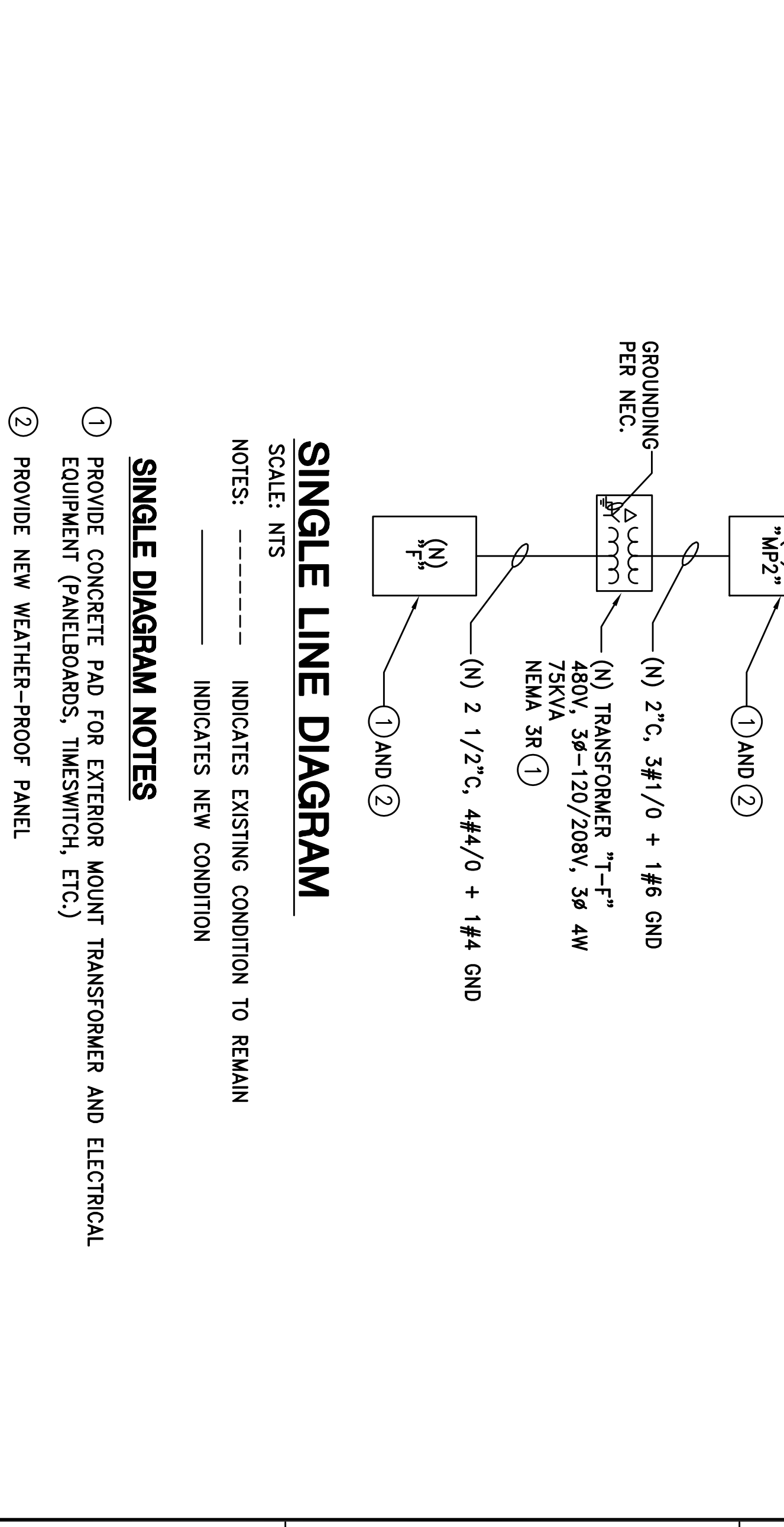
CONNECTED LOAD - PHASE "X" 22.2 KVA
 CONNECTED LOAD - PHASE "Y" 18.2 KVA
 CONNECTED LOAD - ALL PHASES 40.4 KVA
 TOTAL DEMAND LOAD 124 AMPS

NEW PANEL "MP"

TYPE	DESCRIPTION	VA	AMPS	P	No.	PH	AMP	P	VA	DESCRIPTION	TYPE
R	REC. TRAILER	4800	50	3	1	A	2	20	1	900 STORAGE CIRCUITS	R
R	CHARGING STATION	3300	40	2	13	A	14	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	19	A	20	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	21	B	22	20	1	SPRINKLER	R
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R	CHARGING STATION	3300	40	2	27	B	28	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	29	C	30	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	31	A	32	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	33	B	34	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	35	A	36	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	37	B	38	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	39	A	40	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	41	C	42	20	1	SPRINKLER	R

LOAD SUMMARY:

CONNECTED LOAD - PHASE "X" 22.8 KVA
 CONNECTED LOAD - PHASE "Y" 18.7 KVA
 CONNECTED LOAD - ALL PHASES 41.5 KVA
 TOTAL DEMAND LOAD 45 AMPS



NEW PANEL "F"

TYPE	DESCRIPTION	VA	AMPS	P	No.	PH	AMP	P	VA	DESCRIPTION	TYPE
R	REC. TRAILER	4800	50	3	1	A	2	20	1	900 STORAGE CIRCUITS	R
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R	CHARGING STATION	3300	40	2	19	A	20	20	1	SPRINKLER	R
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R	CHARGING STATION	3300	40	2	29	C	30	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	31	A	32	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	33	B	34	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	35	A	36	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	37	B	38	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	39	A	40	20	1	SPRINKLER	R
R	CHARGING STATION	3300	40	2	41	C	42	20	1	SPRINKLER	R

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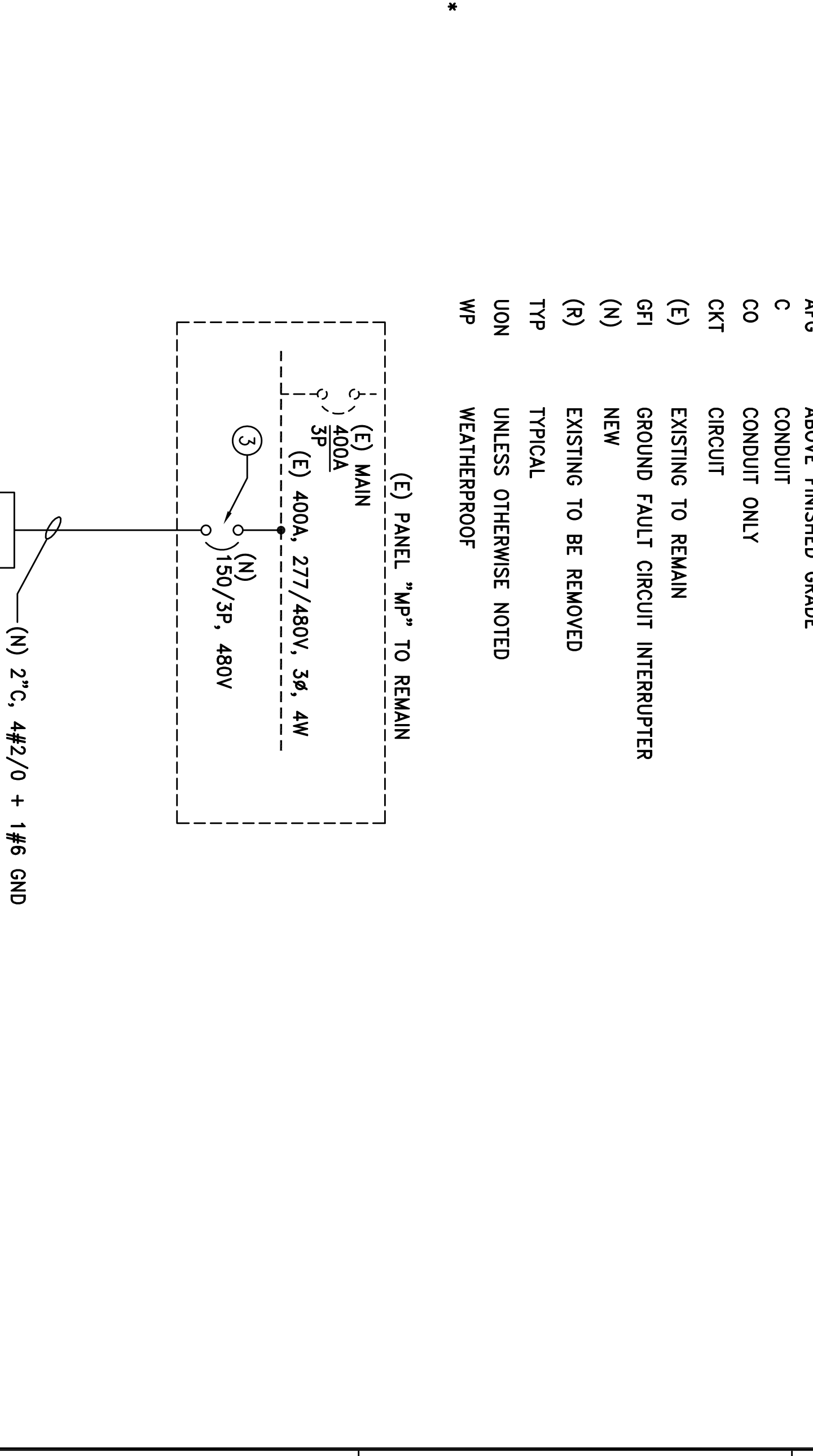
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R	CHARGING STATION	3300	40	2	39	A	40	20	1	SPRINKLER	R
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LOAD SUMMARY:

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 TOTAL DEMAND LOAD 45 AMPS



LIGHTING FIXTURE SCHEDULE *

TYPE	DESCRIPTION	LAMPS	VOLTS	MANUFACTURER
A	25'-0" HIGH x 5" DIA. STRAIGHT ROUND ALUMINUM POLE WITH LED LUMINAIRE. STANDARD POLYESTER POWDER COATED NATURAL ALUMINUM PROVIDE FULL CUTOFF OPTICS, PHOTOCELL CONTROL. 50,000 HOURS. HIGH POWER FACTOR ELECTRONIC DRIVER	85W LED 4000K CRI=70+	UNV-277V	GARDOO #CA171-1-85LA-NW-UNV-NP-PC OR APPROVED ALTERNATE
B	12'-0" HIGH ALUMINUM POLE NEMA 6 LED FLOOD LIGHT COMPARTMENT CAST ALUMINUM ADJUSTABLE ARM MOUNT UNDER EXISTING LIGHT FIXTURE. DELTA GUARD FINISH. 50,000 HOURS. 5 YEAR LUMINAIRE WARRANTY AND 10 YEAR COLORFAST DELTA GUARD FINISH.	102W LED 4000K CRI=70+	277V	CREE #FLD-EDG-N6-AA-08-D-01-S23-40K-OR APPROVED ALTERNATE

* FOR LIGHT POLE BASE REQUIREMENT, SEE DETAIL 8 ON DRAWING SF101

- GENERAL NOTES**
- ALL PULLBOXES, ELECTRICAL EQUIPMENT AND DEVICES INSTALLED EXPOSED TO WEATHER SHALL BE WEATHERPROOF TYPE WHETHER INDICATED OR NOT ON DRAWING.
 - ALL CONDUITS INSTALLED EXPOSED TO WEATHER SHALL BE PVC COATED GALVANIZED RIPID STEEL. ALL CONNECTIONS MADE SHALL BE WATER TIGHT. ALL CONDUITS INSTALLED UNDERGROUND SHALL BE THE PVC SCHEDULE 40.
 - REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF POLE LUMINAIRES.
 - PROVIDE SEPARATE GROUND WIRE IN ALL CONDUITS. MINIMUM (1) GROUND WIRE FOR (3) CIRCUITS. SIZE AND CONNECT IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
 - ALL EQUIPMENT AND DEVICES SHOWN SHALL BE NEW UNLESS OTHERWISE NOTED.
 - ALL ELECTRICAL EQUIPMENT, PANELEBOARDS, CONTROL DEVICES SHALL BE IDENTIFIED WITH ENGRAVED NAMEPLATES.
 - ALL WIRING INSIDE PULL BOXES SHALL BE TAGGED TO IDENTIFY THE CIRCUIT (BOTH PANEL NAME AND CIRCUIT BREAKER NUMBER).
 - ALL LIGHTING POLES AND FIXTURES SHALL BE IDENTIFIED WITH WEATHER PROOF TAG TO INDICATE BUILDING NAME, ELECTRICAL ROOM NUMBER, PANEL NAME AND CIRCUIT NUMBER.
 - CONTRACTOR SHALL LABEL EACH NEW AND EXISTING ELECTRICAL OUTLET WITH WEATHER PROOF TAG TO SHOW PANEL NAME AND CIRCUIT BREAKER FEEDING THE OUTLET.
 - ALL CONDUIT PENETRATION SHALL BE GROUDED AND SEALED AROUND CONDUIT OPENINGS TO MAINTAIN FIRE RATING OF EXISTING WALL AND CEILING.
 - ALL POWER SHUTDOWN SHALL BE PERFORMED ON PREMIUM TIME

