

ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

ICELAND SKATING RINK RESTORATION PROJECT

CONDUIT FILL CALCULATION

Service Conductors	Total
Number of Conductors	4 4
AWG	3/0
Area	1.0716 1.0716
Pipe required	2 inch
Meter / 200A Switch feed	Total
Number of Conductors	5 4 1
AWG	3/0 3/0 2
Area	1.1874 1.0716 0.1158
Pipe required	2 INCH
SE Panel Feed	Total
Number of Conductors	5 4 1
AWG	3/0 3/0 2
Area	1.1874 1.0716 0.1158
Pipe required	2
SW Panel Feeds	Total
Number of Conductors	4 4
AWG	3/0 6
Area	0.2028 0.2028
Pipe required	3/4
NE Panel Feeds	Total
Number of Conductors	4 4
AWG	3/0 6
Area	0.2028 0.2028
Pipe required	3/4
GND Electrode	Total
Number of Conductors	1 1
AWG	2 2
Area	0.1158 0.1158
Pipe required	1/2

ABBREVIATIONS

ABBREVIATIONS

C	CONDUIT
C. O.	CONDUIT ONLY WITH PULL ROPE
CKT	CIRCUITS
(E)	EXISTING
EMT	EMT CONDUIT
GFIC	GROUND FAULT INTERRUPTER CIRCUIT
GND	GROUND
GRC	RIGID CONDUIT
MCB	MAIN CIRCUIT BREAKER PANEL
MLO	MAIN LUG ONLY PANEL
(N)	NEW
NEU	NEUTRAL
PVC	PVC CONDUIT, SCH 40
PFB	PROVISION FOR FUTURE BREAKER
RIG	RIGID CONDUIT
WP	WEATHER PROOF

NOTES

- SMUD SERVICE WILL INITIALLY BE 240V, 200A, 4 WIRE DELTA CONNECTED. SERVICE WILL CHANGE TO 208V, 200A, 4 WIRE WYE CONNECTION AT FUTURE DATE.
- PER NOTE 1, "A" PHASE CONDUCTOR, -200V-, SHALL BE MARKED WITH ORANGE TAPE AND SHALL NOT BE USED FOR 120V CIRCUITS.
- PER NOTE 1, ALL PANELBOARDS SHALL HAVE NAME PLATES NOTING SERVICE TYPE AND VOLTAGE. NAME PLATES SHALL BE UPDATED WHEN SERVICE CHANGES AT FUTURE DATE.
- ALL PANELBOARDS SHALL BE RATED FOR SPECIFIED VOLTAGE OR HIGHER.
- ALL ENCLOSURES SHALL BE RAIN PROOF, NEMA 3R.
- GFIC CIRCUIT BREAKERS SHALL BE USED ON BRANCH CIRCUITS WITH RECEPTACLES.
- ALL RECEPTACLES SHALL BE EQUIPPED WITH IN-USE RAIN COVERS.
- FLOODLIGHTS (FL) WILL BE MOUNTED ON 2" X 2" RIGID CONDUIT POLES ATTACHED TO BUILDING CONCRETE WALLS.
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FIXTURES

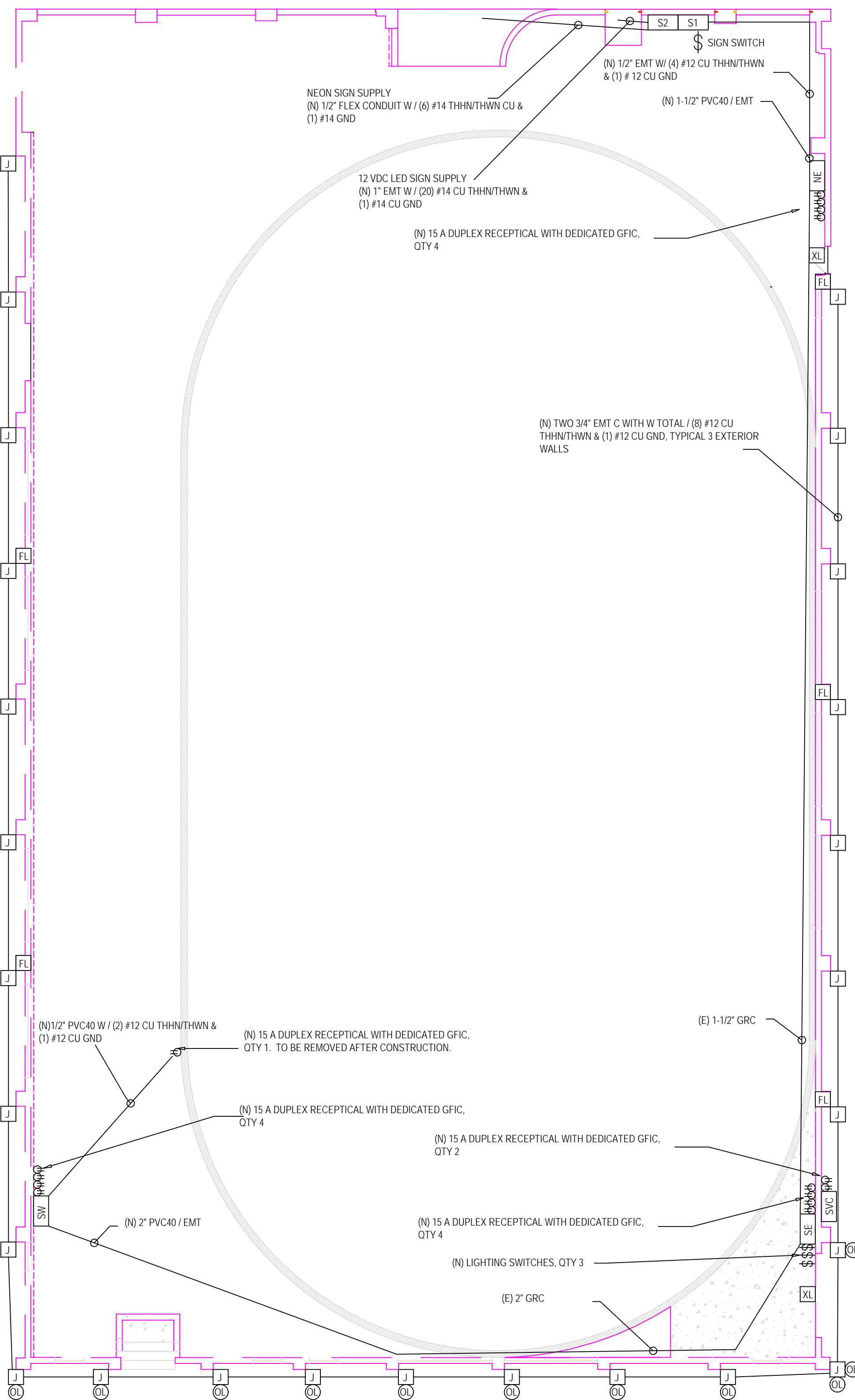
FL	FLOOD LIGHT	250W PSMH, 16" X 16" POLE MOUNT	E-CONOLIGHT E-HRP4250Z
OL	OUTDOOR LIGHT	23W CFL PAR 38 IN OUTDOOR LAMP HOLDER	COMMERCIAL
XL	EXIT SIGN WITH LIGHT	NEMA 4R LED EXIT SIGN WITH LIGHT, BATTERY	GREENTORCH XLWC

LOAD CALCULATION

LOAD	KVA	DESCRIPTION
4	KVA	CONTINUOUS NON-MOTOR
1.0	KVA	25% CONTINUOUS NON-MOTOR
2	KVA	NON-CONTINUOUS
30	KVA	RECEPTACLE (FIRST 10KVA)
14.2	KVA	RECEPTACLE (BALANCE AT 50%)
0.5	KVA	MOTOR LOAD
0.1	KVA	25% OF LARGEST MOTOR
0	KVA	KITCHEN EQUIPMENT
0	KVA	HOTEL/MOTEL DEMAND
0	KVA	ARC WELDERS
0	KVA	RESISTANCE WELDERS
51.8	LOAD KVA	
127.0	AMPS AT 240 V 3 PHASE	

SYMBOLS

J	JUNCTION BOX
S#	ENCLOSURE
SE	PANELBOARD
XL	EXIT SIGN WITH BATTERY LIGHT
FL	FLOOD LIGHT, POLE MOUNTED
OL	OUTDOOR LIGHT, PAR STYLE WITH LAMP HOLDER
⊕	RECEPTACLE, 15 A, 120 V, DUPLEX WITH IN-USE COVER
⚡	SWITCH, SPST, 15 A



<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISIONS				<p>NOT TO SCALE</p> <p>DRAWN 11-11-10</p>	<p>ICELAND SKATING RINK RESTORATION 1430 DEL PASO BLVD SACRAMENTO CALIFORNIA 95815 PHONE 916-799-3121</p>	<p>OWNER / APPLICANT ROB KERTH SACRAMENTO, CALIFORNIA 95815 PHONE 916-799-3121</p>
NO.	DATE	REVISIONS							
ELECTRICAL PLAN									