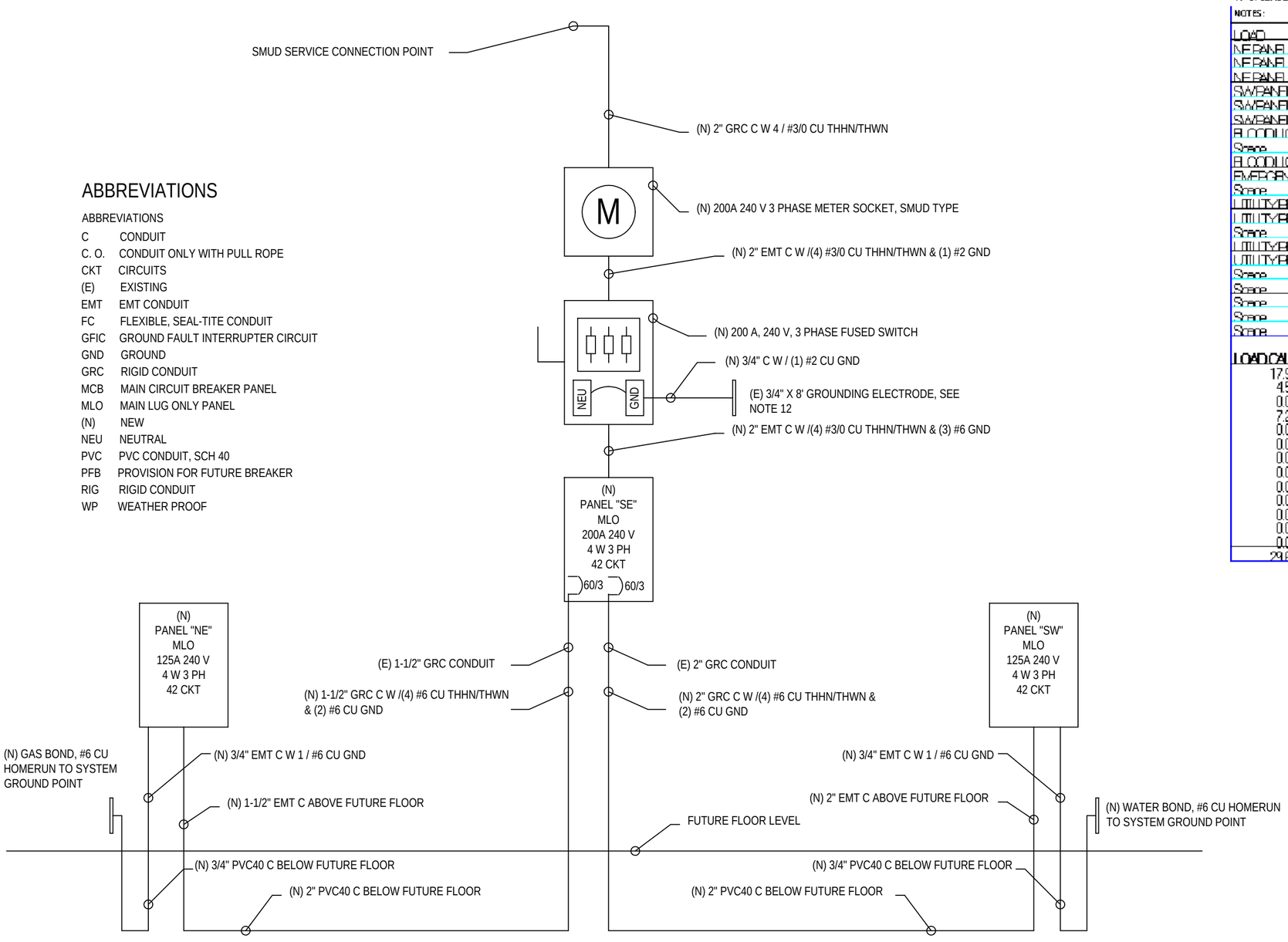
ABBREVIATIONS

ABBREVIATIONS

C	CONDUIT
C. O.	CONDUIT ONLY WITH PULL ROPE
CKT	CIRCUITS
(E)	EXISTING
EMT	EMT CONDUIT
FC	FLEXIBLE, SEAL-TITE 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



ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

ICELAND SKATING RINK
RESTORATION PROJECT

WARNING
Single Leg PHB

PANEL: SE PANEL — ALLOWED LOAD: 200 amps — Panel loaded at: 36% — %PHASE IMBALANCE: 1 Kilowatt Phase

TYPE: LOADCENTER — VOLTAGE: 120/240V 3P, 4W — BUS: 200A — MAIN: MLO — MIC: — MOUNT: SURFACE — TYPE: NEMA 3R

NOTES: — BACK FEED — Print Date: 20-Dec-10

LOAD		KVA	CB	NO	A	B	C	NO	CB	KVA		LOAD
NE PANEL	C	4.3	60/	1	A			2	20/1	0.3	C	PERIMETER LIGHT 1
NE PANEL	C		/	3		B		4	PFB			Spare
NE PANEL	C	3.8	3	5			C	6	20/1	0.3	C	PERIMETER LIGHT 2
SW PANEL	C	3.1	60/	7	A			8	20/1	1.2	R	EXTERIOR RECEPTACLE 1
SW PANEL	C		/	9		B		10	PFB			Spare
SW PANEL	C	2.4	3	11			C	12	20/1	1.2	R	EXTERIOR RECEPTACLE 2
FLOODLIGHT 1	C	1.3	20/1	13	A			14	PFB			Spare
Spare			PFB	15		B		16	PFB			Spare
FLOODLIGHT 2	C	1.3	20/1	17			C	18	PFB			Spare
EMERGENCY LIGHTS	C	1.1	20/1	19	A			20	PFB			Spare
Spare			PFB	21		B		22	PFB			Spare
UTILITY RECEPTACLE 1	R	1.2	20/1	23			C	24	PFB			Spare
UTILITY RECEPTACLE 2	R	1.2	20/1	25	A			26	PFB			Spare
Spare			PFB	27		B		28	PFB			Spare
UTILITY RECEPTACLE 3	R	1.2	20/1	29			C	30	PFB			Spare
UTILITY RECEPTACLE 4	R	1.2	20/1	31	A			32	PFB			Spare
Spare			PFB	33		B		34	PFB			Spare
Spare			PFB	35			C	36	PFB			Spare
Spare			PFB	37	A			38	PFB			Spare
Spare			PFB	39		B		40	PFB			Spare
Spare			PFB	41			C	42	PFB			Spare

LOAD CALCULATIONS

17.9	kVA Continuous Non-Motor
4.5	kVA 25% Continuous Non-Motor
0.0	kVA Non-Continuous
7.2	kVA Receptacle (First 10KVA NEC 220-13)
0.0	kVA Receptacle (Ballance at 50%)
0.0	kVA Motor Loads (NEC 430)
0.0	kVA 25% of Largest Motor
0.0	kVA Kitchen Equip
0.0	kVA Hotel/Motel Demand (NEC 220-11)
0.0	kVA Arc Welders (NEC 630-11a,21b PRN)
0.0	kVA Resistance Welders (NEC 630-31b)
0.0	kVA Subpanel(s)
0.0	kVA Thru fed Panel(s)
29.6	Total kVA

71 Amps at VOLTAGE: 120/240V 3P, 4W — Loaded

LEGEND

PFB = Provision for Future Breaker
<B> = Existing Load
<F> = Future Load
C = Continuous Load (>3 hrs per NEC 100)
N = Non-continuous load
R = Receptacle Load (taken at 180 VA only)
M = Motor Load
K = Kitchen Load (NEC 220-20)
H = Hotel/Motel
A = Arc Welders (MG, AC xfmr, DC rectifier)
W = Resistance Welders
P = Sub-Panel

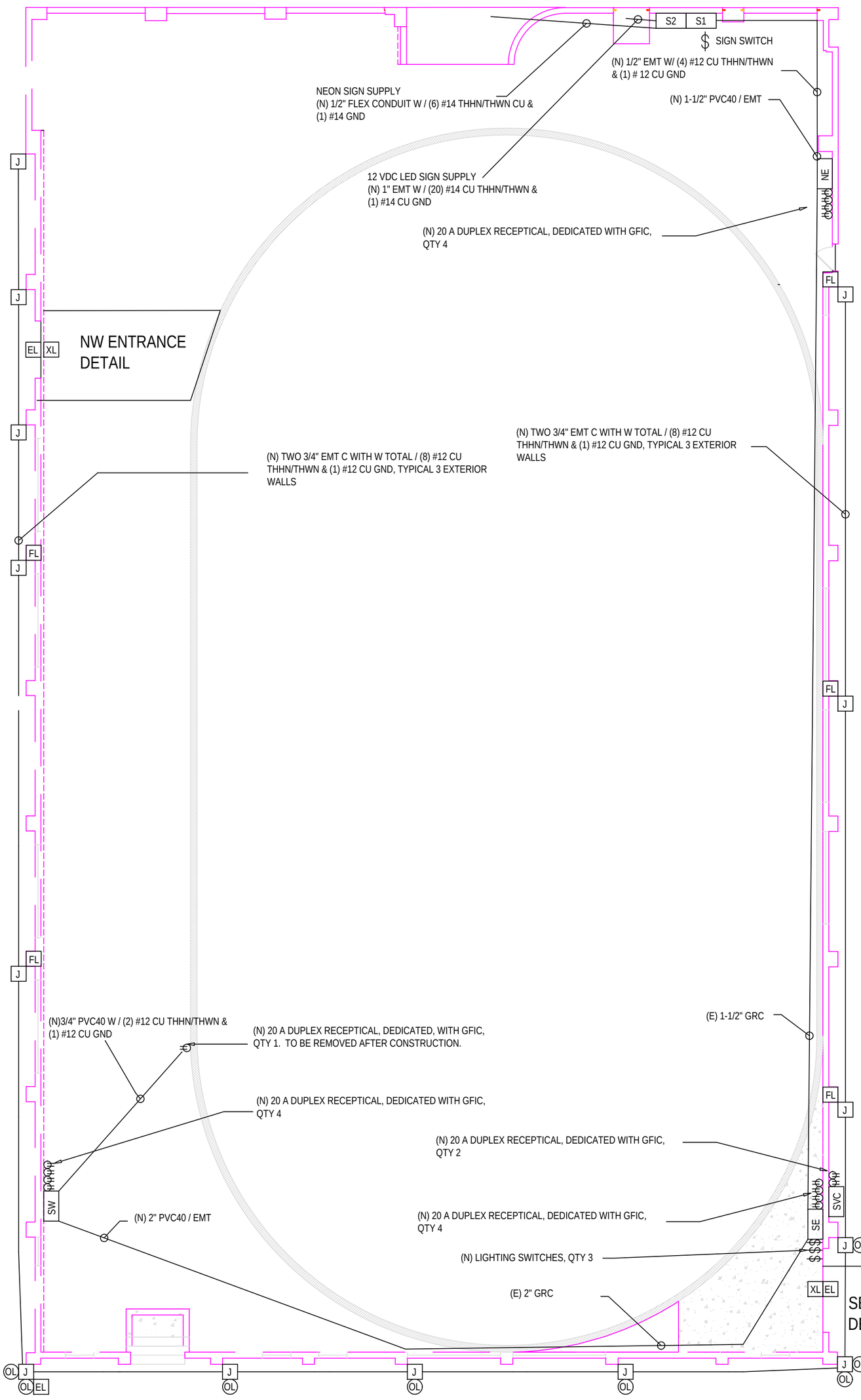
WARNING
Single Leg PHB

PANEL: NE PANEL — ALLOWED LOAD: 125 amps — Panel loaded at: 11% — %PHASE IMBALANCE: 0 Kilowatt Phase

TYPE: LOADCENTER — VOLTAGE: 120/240V 3P, 4W — BUS: 125A — MAIN: MLO — MIC: — MOUNT: SURFACE — TYPE: NEMA 3R

NOTES: — BOTTOM FEED — Print Date: 20-Dec-10

LOAD		KVA	CB	NO	A	B	C	NO	CB	KVA		LOAD
NEON SIGN 1	C	1.4	20/1	1	A			2	20/1	1.2	R	UTILITY RECEPTACLE 1
Spare			PFB	3		B		4	PFB			Spare
NEON SIGN 2	C	1.4	20/1	5			C	6	20/1	1.2	R	UTILITY RECEPTACLE 2
LED SIGNS	C	0.8	20/1	7	A			8	20/1	1.2	R	UTILITY RECEPTACLE 3
Spare			PFB	9		B		10	PFB			Spare
Spare			PFB	11			C	12	20/1	1.2	R	UTILITY RECEPTACLE 4
Spare			PFB	13	A			14	PFB			Spare
Spare			PFB	15		B		16	PFB			Spare
Spare			PFB	17			C	18	PFB			Spare
Spare			PFB	19	A			20	PFB			Spare
Spare			PFB	21		B		22	PFB			Spare
Spare			PFB	23			C	24	PFB			Spare
Spare			PFB	25	A			26	PFB			Spare
Spare			PFB	27		B		28	PFB			Spare
Spare			PFB	29			C	30	PFB			Spare
Spare			PFB	31	A			32	PFB			Spare
Spare			PFB	33		B		34	PFB			Spare
Spare			PFB	35			C	36	PFB			Spare
Spare			PFB	37	A			38	PFB			Spare
Spare			PFB	39		B		40	PFB			Spare
Spare			PFB	41			C	42	PFB			Spare



NOTES

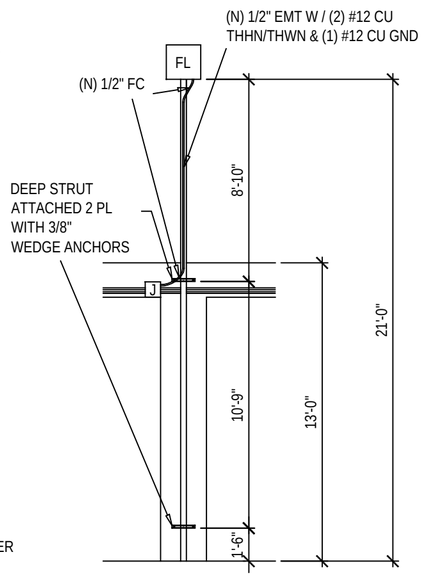
1. NEW SMUD SERVICE WILL INITIALLY BE 240V, 200A, 4 WIRE DELTA CONNECTED. SERVICE WILL CHANGE TO 208V, 200A, 4 WIRE WYE CONNECTION AT FUTURE DATE.
2. PER NOTE 1, "B" PHASE CONDUCTOR, ~200V , SHALL BE MARKED WITH ORANGE TAPE AND SHALL NOT BE USED FOR 120V CIRCUITS.
3. PER NOTE 1, ALL PANELBOARDS SHALL HAVE NAME PLATES NOTING SERVICE TYPE AND VOLTAGE. NAME PLATES SHALL BE UPDATED WHEN SERVICE CHANGES AT FUTURE DATE
4. ALL PANELBOARDS SHALL BE RATED FOR SPECIFIED VOLTAGE OR HIGHER
5. ALL ENCLOSURES SHALL BE RAIN PROOF, NEMA 3R
6. GFIC CIRCUIT BREAKERS SHALL BE USED ON BRANCH CIRCUITS WITH RECEPTACLES.
7. ALL RECEPTACLES SHALL BE EQUIPPED WITH IN-USE RAIN COVERS
8. FLOODLIGHTS (FL) WILL BE MOUNTED ON 21' 2" RIGID CONDUIT POLES ATTACHED TO BUILDING CONCRETE WALLS
9. GAS BOND AND WATER BOND SHALL BE #6 CU CONDUCTOR, HOME RUN TO BUILDING GROUND POINT IN FUSED SWTICH
10. EMERGENCY AND EGRESS LIGHTING SHALL HAVE 90 MINUTE BATTERY BACKUP POWER SUPPLY
11. 30" X 36' WORKING CLEARANCE SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL PANELS. A PLATFORM WITH PERMANENT LADDER WILL BE PROVIDED WHERE MAXIMUM SWITCH HEIGHT EXCEEDS 6' 7".
12. A SINGLE GROUNDING ELECTRODE WILL SERVE BOTH AMERICAN ICE AND ICELAND SKATING RINK TO ASSURE EQUAL GROUND POTENTIAL EXISTS BETWEEN BOTH BUILDINGS. THIS IS NECESSITATED BECAUSE OF THE CONDUCTING PATHS THROUGH THE SHARED REFRIGERATION PIPING. ICELAND BUILDING GROUND POINT IN MAIN SERVICE PANEL WILL CONNECT TO SHARED GROUNDING CONNECTOR WITH (1) #2 CU CONDUCTOR PROTECTED IN (N) 3/4" PVC CONDUIT.

FIXTURES

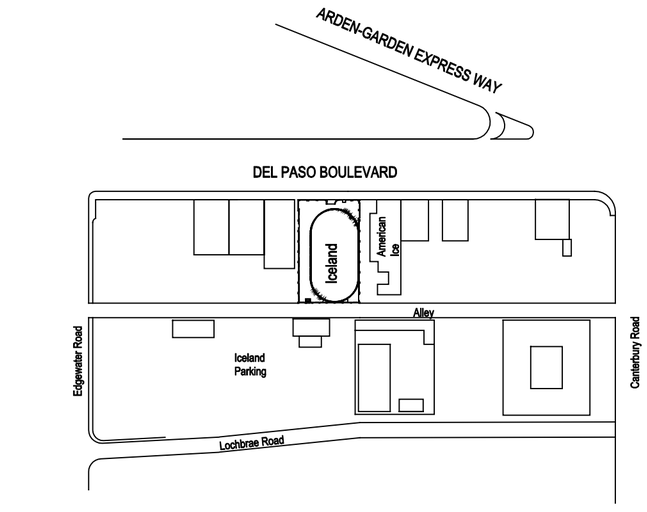
1. FL FLOOD LIGHT, 250W PSMH, 16" X 16" POLE MOUNT-- E-CONOLIGHT E-HR4P25QZ
2. OL OUTDOOR LIGHT, 42W CFL WALL PACK--E-CONOLIGHT E-WP1F421Z
3. XL EXIT SIGN WITH LIGHT, NEMA 3R LED EXIT SIGN WITH LIGHT, 90 MINUTE BATTERY--GREENTORCH XWLC
4. EL EMERGENCY LIGHT, TWIN BULB HALOGEN, 90 MINUTE BATTERY OPERATION--GREENTORCH WVHEL

SYMBOLS

J	JUNCTION BOX
S#	ENCLOSURE
SE	PANELBOARD
XL	EXIT SIGN WITH BATTERY LIGHT
FL	FLOOD LIGHT, POLE MOUNTED PER DETAIL, 250 W PSMH, 120 V
OL	OUTDOOR LIGHT, WALL PACK, 42 W, 120 V
	RECEPTACLE, DEDICATED 20 A GFI CKT, 120 V, DUPLEX WITH IN-USE COVER
$	SWITCH, SPST, 20 A
EL	EXIT LIGHT



FLOODLIGHT MOUNTING DETAIL



ICELAND VICINITY

NO SCALE

ICELAND SKATING RINK
RESTORATION PROJECT

REVISION NUMBER
COMMENT RE: #
REVISION CLOUD

NO. | DATE | REVISIONS | REMARKS

DRAWN 11-11-10

NOT TO SCALE

ICELAND SKATING RINK RESTORATION
1430 DEL PASO BLVD
SACRAMENTO CALIFORNIA 95815

OWNER / APPLICANT
ROB KERTH
SACRAMENTO, CALIFORNIA 95815
PHONE 916-799-3121

ELECTRICAL PLAN