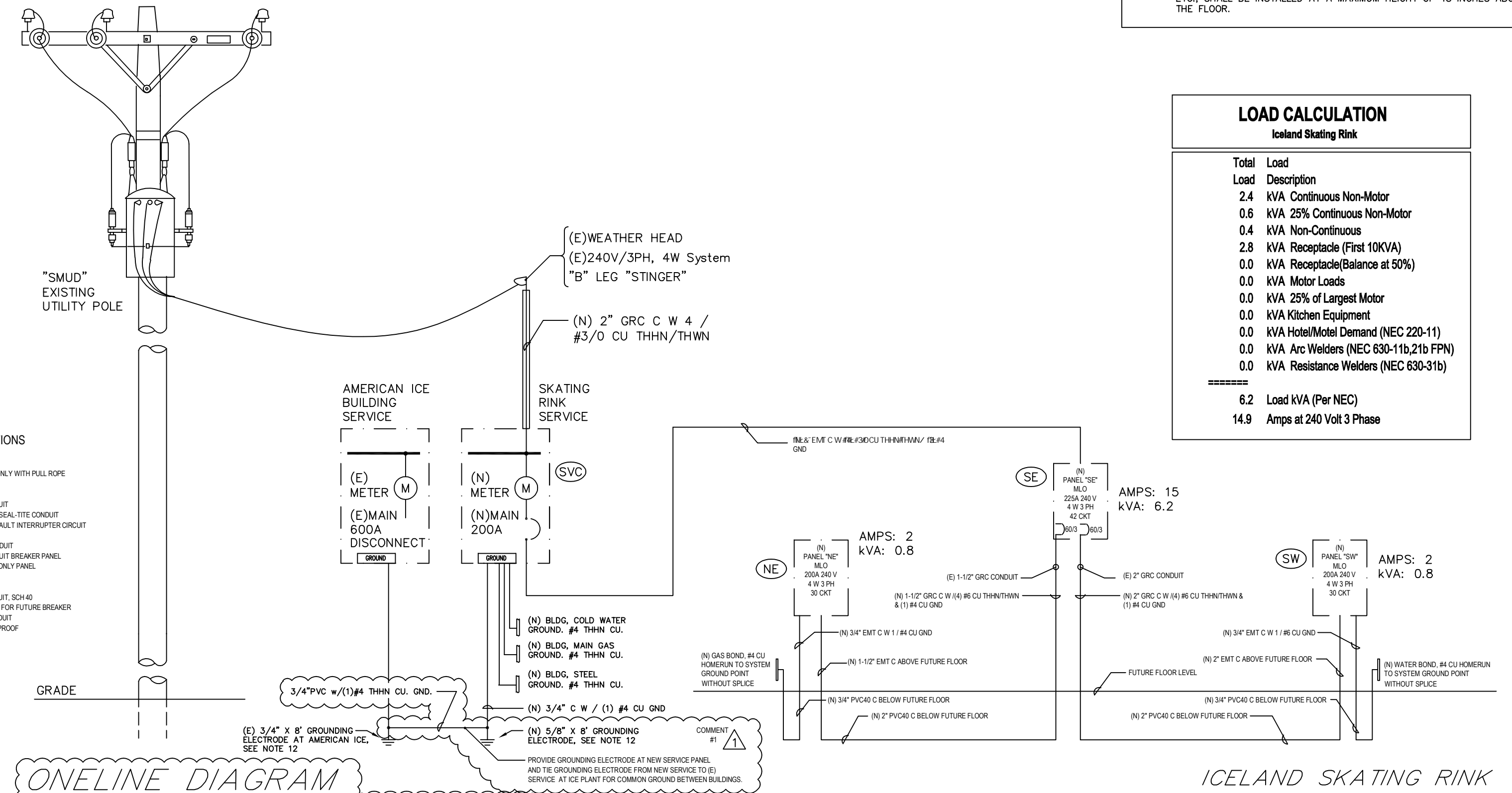


NOTES

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 WILL BE MOUNTED ON RIGID CONDUIT POLES ATTACHED TO BUILDING CONCRETE WALLS
9. " GAS BOND AND WATER BOND SHALL BE #4 CU CONDUCTOR, HOME RUN TO BUILDING GROUND POINT IN METER MAIN
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 NEW GROUNDING ELECTRODE WILL BE INSTALLED AT ICELAND SERVICE ENTRY POINT. THIS GROUNDING ELECTRODE WILL BE TIED TO AMERICAN ICE GROUNDING ELECTRODE TO ASSURE EQUAL GROUND POTENTIAL EXISTS BETWEEN BOTH BUILDINGS. ICELAND BUILDING GROUND POINT IN MAIN SERVICE PANEL WILL CONNECT TO SHARED GROUNDING CONNECTOR WITH (1) #4 CU CONDUCTOR PROTECTED IN (N) 3/4" PVC CONDUIT.



ONELINE DIAGRAM
NO SCALE 240/120 VOLTS, 3 PHASE, 4 WIRE, "B" LEG "STINGER"

- GENERAL NOTES**
1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR DURING EXECUTION OF THE WORK, HOWEVER, THEY DO NOT COVER ALL OF THE SPECIFICATION REQUIREMENTS.
 2. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES(NEC).
 3. DO NOT SCALE ELECTRICAL PLANS FOR FIXTURES, DEVICE, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL PLANS.
 4. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND NEC 110-3.
 5. MOUNT ALL RECEPTACLES OUTLETS AT +15" MIN. UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 6. MOUNT ALL TOGGLE SWITCHES AT +48" UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 7. TOTAL IMPEDANCE, CIRCUIT BREAKERS, PANELS, CONDUCTORS, AND ALL OTHER CIRCUIT COMPONENTS AND SHORT CIRCUIT CURRENT RATINGS SHALL BE COORDINATED SO THAT FAULTS CAN BE CLEARED WITHOUT EXTENSIVE DAMAGE TO CIRCUIT COMPONENTS PER NEC 110.10.
 8. ALL ELECTRICAL PANEL BOARDS SWITCHBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROLS CENTERS REQUIRING EXAMINATION OR SERVICING WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE PER NEC 110.16.
 9. PER 2007 CEC 404.8 ALL SPECIFIED SWITCHES, CONTROLS, THERMOSTATS ETC. SHALL BE INSTALLED AT A MAXIMUM HEIGHT OF 48 INCHES ABOVE THE FLOOR.

LOAD CALCULATION
Iceland Skating Rink

Total Load	Description
2.4	kVA Continuous Non-Motor
0.6	kVA 25% Continuous Non-Motor
0.4	kVA Non-Continuous
2.8	kVA Receptacle (First 10kVA)
0.0	kVA Receptacle(Balance at 50%)
0.0	kVA Motor Loads
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 630-11b,21b FPN)
0.0	kVA Resistance Welders (NEC 630-31b)
6.2	Load kVA (Per NEC)
14.9	Amps at 240 Volt 3 Phase

(SW) WARNING
Slinger Leg PH B

Allowed Load:	Panel loaded at:	% Phase Unbalance:
60 amps	3%	<30% Loaded
(N)PANEL: SW	VOLTAGE: 120/240V 3P, 4W, BUS: 200A	MOUNT: SURFACE
TYPE: PANELBOARD	AIC: SERIES RATED MAIN: MLO-60A	TYPE: NEMA 3R
NOTES: NEW	Print Date: 11-Feb-11	
LOAD		
Do Not Use	PFB 3	Do Not Use
Space	PFB 5	Space
Do Not Use	PFB 7	Do Not Use
Space	PFB 9	Space
Do Not Use	PFB 11	Do Not Use
Space	PFB 13	Space
Do Not Use	PFB 15	Do Not Use
Space	PFB 17	Space
Do Not Use	PFB 19	Do Not Use
Space	PFB 21	Space
Do Not Use	PFB 23	Do Not Use
Space	PFB 25	Space
Do Not Use	PFB 27	Do Not Use
Space	PFB 29	Space

(NE) WARNING
Slinger Leg PH B

Allowed Load:	Panel loaded at:	% Phase Unbalance:
60 amps	3%	<30% Loaded
(N)PANEL: NE	VOLTAGE: 120/240V 3P, 4W, BUS: 200A	MOUNT: SURFACE
TYPE: PANELBOARD	AIC: SERIES RATED MAIN: MLO-60A	TYPE: NEMA 3R
NOTES: NEW	Print Date: 11-Feb-11	
LOAD		
Do Not Use	PFB 1	Do Not Use
Space	PFB 3	Space
Do Not Use	PFB 5	Do Not Use
Space	PFB 7	Space
Do Not Use	PFB 9	Do Not Use
Space	PFB 11	Space
Do Not Use	PFB 13	Do Not Use
Space	PFB 15	Space
Do Not Use	PFB 17	Do Not Use
Space	PFB 19	Space
Do Not Use	PFB 21	Do Not Use
Space	PFB 23	Space
Do Not Use	PFB 25	Do Not Use
Space	PFB 27	Space
Do Not Use	PFB 29	Do Not Use

(SE) WARNING
Slinger Leg PH B

Allowed Load:	Panel loaded at:	% Phase Unbalance:
200 amps	3%	<30% Loaded
(N)PANEL: SE	VOLTAGE: 120/240V 3P, 4W, BUS: 225A	MOUNT: SURFACE
TYPE: PANELBOARD	AIC: SERIES RATED MAIN: MLO	TYPE: NEMA 3R
NOTES: NEW	Print Date: 11-Feb-11	
LOAD		
Do Not Use	PFB 1	Do Not Use
Space	PFB 3	Space
Do Not Use	PFB 5	Do Not Use
Space	PFB 7	Space
Do Not Use	PFB 9	Do Not Use
Space	PFB 11	Space
Do Not Use	PFB 13	Do Not Use
Space	PFB 15	Space
Do Not Use	PFB 17	Do Not Use
Space	PFB 19	Space
Do Not Use	PFB 21	Do Not Use
Space	PFB 23	Space
Do Not Use	PFB 25	Do Not Use
Space	PFB 27	Space
Do Not Use	PFB 29	Do Not Use

SYMBOL LIST

SYMBOL	DESCRIPTION
○	LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
●	(NL) LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED
◻	FLUORESCENT LIGHTING FIXTURE, RECESSED MOUNTED
◻	(NL) FLUORESCENT LIGHTING FIXTURE, RESESSED MOUNTED
○	LIGHTING FIXTURE, WALL MOUNTED
◻	FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED
◻	LIGHTING FIXTURE, RECESSED MOUNTED
◻	FLUORESCENT STRIP FIXTURE, SURFACE MOUNTED
⊕	EXIT LIGHT FIXTURE WITH BATTERY BACK-UP, WALL MOUNTED ARROWS SHOWS DIRECTION
⊕	EXIT LIGHT FIXTURE, CEILING MOUNTED
⊕	POLE MOUNTED FIXTURE
⊕	EMERGENCY LIGHT WITH BATTERY BACK-UP
⊕	SINGLE POLE TOGGLE SWITCH, 15A 120-277V ⊕ +48" ABOVE FINISHED FLOOR ⊕ CENTER OF DEVICE.
⊕	THREE WAY TOGGLE SWITCH, 15A 120-277V ⊕ +48" ABOVE FINISHED FLOOR ⊕ CENTER OF DEVICE.
⊕	SUBSCRIPT DENOTES OUTLET/FIXTURE CONTROLLED ⊕ +48" ABOVE FINISHED FLOOR ⊕ CENTER OF DEVICE.
⊕	FOURPLEX RECEPTACLE OUTLET 15A, 125V, +15" MIN. ABOVE FINISHED FLOOR ⊕ BOTTOM OF DEVICE.
⊕	DUPLEX RECEPTACLE OUTLET 15A, 125V, +15" MIN. ABOVE FINISHED FLOOR ⊕ BOTTOM OF DEVICE.
⊕	208V, 3PH, 1PH RECEPTACLE OUTLET SIZE AS NOTED
⊕	DUPLEX RECEPTACLE FLOOR OUTLET 15A, 125V FLUSH IN FINISH FLOOR COLOR AS NOTED.
⊕	DUPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 15A 125V, +15" ABOVE FINISHED FLOOR ⊕ BOTTOM OF DEVICE.
⊕	FOURPLEX RECEPTACLE OUTLET WITH AN ISOLATED GROUND, 15A 125V, +15" ABOVE FINISHED FLOOR ⊕ BOTTOM OF DEVICE.
⊕	TELEPHONE OUTLET ; FLOOR MOUNTED, 3/4" C. MOUNT TO ABOVE CEILING. WITH PULL ROPE, PROVIDE MUD RING.
⊕	DATA OUTLET ; FLOOR MOUNTED, 3/4" C. MOUNT TO ABOVE CEILING. WITH PULL ROPE, PROVIDE MUD RING.
⊕	PUBLIC TELEPHONE OUTLET
⊕	COMBINATION TELE/DATE OUTLET
⊕	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED
⊕	MAIN SWITCH BOARD "MSB" SEE ONE LINE DIAGRAM
⊕	BRANCH PANEL SURFACE MOUNTED
⊕	BRANCH PANEL FLUSH MOUNTED
⊕	TERMINAL CABINET
⊕	DISTRIBUTION TRANSFORMER, SIZE & MOUNTING AS NOTED
⊕	MOTOR STARTER, SEE MP&S CONNECT AS REQUIRED
⊕	DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED F -> FUSED
⊕	MOTOR MP&S
⊕	EXHAUST FAN - MP&S
⊕	MECHANICAL EQUIPMENT I.D. TAG - MP&S
⊕	NUMBERED NOTE SHOWN ON SAME SHEET
⊕	DETAIL DESIGNATION, TOP LETTER INDICATES DETAIL, BOTTOM LETTER INDICATES SHEET NUMBER
⊕	FIXTURE DESIGNATION, DENOTES FIXTURE TYPE
⊕	TELEPHONE TERMINAL BOARD "TTB" 4"x8"x3/4" PLYWOOD BACKBOARD W/ FOURPLEX RECEPTACLE AND (1) #8 GND.
⊕	WALL MOUNTED SENSOR SWITCH, DUAL TECHNOLOGY
⊕	CEILING MOUNTED SENSOR SWITCH, ULTRASONIC
⊕	WALL MOUNTED SENSOR SWITCH, PASSIVE INFRARED
⊕	POWER PACK, 120V
⊕	CIRCUIT CONCEALED IN CEILING OR WALL
⊕	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
⊕	TANDEM FIXTURE, MASTER SLAVE MAKE-UP
⊕	HOME RUN TO PANELBOARD OR TERMINAL CABINET
⊕	DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2" C. CURVED HATCH DENOTES IG. OTHERS AS NOTED
⊕	CONDUIT RISER
⊕	CONDUIT RISER DOWN
⊕	STUBBED CONDUIT
⊕	FLEX CONDUIT
⊕	CONDUIT
⊕	CONDUIT ONLY WITH PULL ROPE
⊕	EXISTING
⊕	EM EMERGENCY BATTERY PACK
⊕	EL EVENING LIGHT
⊕	GFIC GROUND FAULT INTERRUPTER
⊕	GFIC GROUND FAULT CIRCUIT INTERRUPTER
⊕	IG ISOLATED GROUND
⊕	MP&S SEE MECHANICAL PLANS AND SPECIFICATIONS
⊕	MT EMPTY CONDUIT WITH NYLON PULL ROPE
⊕	(N) NEW
⊕	NIC NOT IN CONTRACT
⊕	NIES NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS
⊕	NL NIGHT LIGHT
⊕	PFB PROVISION FOR FUTURE BREAKER
⊕	PNL PANELBOARD
⊕	(R) EXISTING TO BE REMOVED OR RELOCATED
⊕	RE: REFERENCE, REFER TO AND COORDINATE WITH
⊕	TTB TELEPHONE TERMINAL BOARD
⊕	UON UNLESS OTHERWISE NOTED
⊕	WP WEATHER PROOF
⊕	NOTE SYMBOLS INDICATES ABOVE MAY NOT NECESSARILY APPEAR AS PART OF THESE DRAWINGS IF NOT REQUIRED

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DESIGN & DRAFTING SERVICES

RESTORATION

ICELAND SKATING RINK
1430 DEL PASO ROAD
SACRAMENTO, CA 95815

PROJECT NAME/ADDRESS

February 11, 2011
PROJECT DATE

G. COOPER
DRAWN/DESIGNER CHECKED

PLAN CHECK COMMENTS
JANUARY 11, 2011

REVISIONS/DATES

ELECTRICAL ONELINE SYMBOLS, NOTES & SCHEDULES

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT TO THE 2010 CALIFORNIA ELECTRICAL CODE AND THE 2008 CALIFORNIA ENERGY CODE PER TITLE 24 STANDARDS.

NEW SHEET
E.O. 1
SHEET 1 OF 5