

ELECTRICAL SYMBOLS & ABBREVIATIONS

GENERAL

-  INDICATES NOTES THIS SHEET.
-  REFERENCE TARGET, UPPER HALF INDICATES DETAIL'S NUMBER, LOWER HALF INDICATES DETAIL'S SHEET NO.
-  PROVIDE AN INDIVIDUAL 'HOME RUN' FROM THIS LOCATION TO THE PANEL AND CIRCUIT DESIGNATION INDICATED (i.e. PANEL 'P', CIRCUIT #31). UNLESS OTHERWISE INDICATED ALL CONDUIT SHALL BE SIZED PER N.E.C. BY THE ELECTRICAL CONTRACTOR
-  RACEWAY, CONCEALED IN WALLS OR CEILINGS, NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS, NO HASH MARKS INDICATES 2 CONDUCTORS (#12 THHN U.N.O.), SOLID DOTS INDICATE A SEPARATE GROUND WIRE. PROVIDE CODE-SIZED GREEN GROUND EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS.
-  RACEWAY, BELOW FLOORS OR GRADE CEILINGS, NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS, NO HASH MARKS INDICATES 2 CONDUCTORS (#12 THHN U.N.O.), SOLID DOTS INDICATE A SEPARATE GROUND WIRE. PROVIDE CODE-SIZED GREEN GROUND EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS.
-  SWITCH - SINGLE POLE (SUBSCRIPTS a,b, etc., DENOTES FIXTURE CONTROLLED)
-  3 WAY SWITCH
-  MOTOR RATED DISCONNECT SWITCH
-  INFRA-RED MOTION SENSOR
-  ULTRASONIC MOTION SENSOR
-  INFRA-RED/ULTRASONIC DUAL TECHNOLOGY MOTION SENSOR
-  PHOTOELECTRIC CONTROL

LIGHTING

-  FLUORESCENT FIXTURE, (SUBSCRIPT INDICATES SWITCHING CONTROL).
-  FLUORESCENT STRIP FIXTURE
-  SURFACE MOUNTED FIXTURE
-  WALL MOUNTED FLUORESCENT FIXTURE
-  WALL MOUNTED FIXTURE
-  RECESSED WALL WASH DOWNLIGHT.
-  RECESSED DOWNLIGHT.
-  EMERGENCY WALL PACK FIXTURE
-  WALL MOUNTED EXIT SIGN
-  EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED.
-  LIGHT FIXTURE TYPE DESIGNATION
X = TYPE (SEE FIXTURE SCHEDULE)

RECEPTACLES

-  DUPLEX RECEPTACLE.
-  DOUBLE DUPLEX RECEPTACLE.
-  SPECIAL PURPOSE RECEPTACLE.
-  MULTI-OUTLET ASSEMBLY

EQUIPMENT

-  MAIN DISTRIBUTION PANEL
-  BRANCH CIRCUIT PANEL
-  TELEPHONE TERMINAL BOARD (TTB)
-  MOTOR CONNECTION.
-  EQUIPMENT CONNECTION.
-  JUNCTION BOX.
-  MECHANICAL EQUIPMENT (SEE SCHEDULE).
-  FUSED SWITCH (SIZE FUSE TO LOAD)
-  DISCONNECT SWITCH
-  TRANSFORMER
-  TIME CLOCK
-  METER
-  PUSH BUTTON CONTROL STATION

ELECTRICAL RISER

-  CIRCUIT BREAKER
-  TRANSFORMER
-  GROUND
-  METER
-  FEEDER SIZE, SEE FEEDER SCHEDULE

COMMUNICATIONS

-  TELEPHONE OUTLET; STUB CONDUIT TO ACCESSIBLE CEILING SPACE (IF NO ACCESSIBLE CEILING ROUTE CONDUIT TO TTB.)
-  DUPLEX OUTLET, 1 DATA CONNECTION AND 1 TELEPHONE CONNECTION U.N.O.

FIRE ALARM

-  SPRINKLER TAMPER SWITCH
-  SPRINKLER FLOW SWITCH CONNECTION
-  DUCT SMOKE DETECTOR
-  FIRE/SMOKE DAMPER ACTUATOR. PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120V CONNECTION, CONTROL POWER AND J-BOX WITH SINGLE POLE RELAY FOR FIRE/SMOKE DAMPER CONTROL. VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.

SPECIAL NOTES

1. THIS BUILDING WAS ORIGINALLY ERECTED IN 1941 AND WAS BUILT WITH CLOTH-COVERED ("ASBESTOS") INSULATED WIRE FOR ALL ELECTRICAL SYSTEMS. OVER THE YEARS, SOME OF THIS WIRE HAS BEEN REPLACED WITH MODERN TYPE WIRE, BUT MUCH OF THE ORIGINAL CLOTH-COVERED WIRE REMAINS. IT IS THE INTENT OF THIS CONTRACT TO REMOVE ALL CLOTH-COVERED WIRE FROM THE PROJECT AREAS OF THE BUILDING AND REPLACE WITH NEW WIRE AS SPECIFIED.
2. BY ACCEPTANCE OF THIS CONTRACT, CONTRACTOR WARRANTS THAT HE HAS FAMILIARIZED HIMSELF WITH THE BUILDING AND UNDERSTANDS THE EXTENT OF CLOTH-COVERED WIRING IN BOTH MAIN FEEDER CIRCUITS AND BRANCH CIRCUITS. CONTRACTOR FURTHER AGREES TO REMOVE ALL CLOTH-COVERED WIRE FROM PROJECT AREAS OF THE BUILDING WHETHER OR NOT IDENTIFIED IN CONTRACT DOCUMENTS OR RECORD DRAWINGS.
3. EXISTING RECORD DRAWINGS FOR THE BUILDING ARE INCOMPLETE. WORK SHOWN ON THE CONTRACT DOCUMENTS IS BASED ON FIELD OBSERVATION AT THE TIME OF DESIGN. WORK NOT SHOWN BUT NECESSARY TO REMOVE AND REPLACE WIRING AS DESCRIBED SHALL BE IMPLIED AND PERFORMED AT NO ADDITIONAL COST TO OWNER.
4. RECEPTACLE AND SELECTED EQUIPMENT CIRCUITS IN IDENTIFIED AREAS ARE TO BE ABANDONED IN PLACE AS FOLLOWS: REMOVE CONDUCTORS FROM PANEL BREAKER TO FIRST DEVICE. ABANDON REMAINING CONDUCTORS AND DEVICES IN PLACE. LIGHTING CIRCUITS TO REMAIN. THESE AREAS WILL NOT BE MAINTAINED AS PUBLIC AREAS.
5. EXISTING LIGHTING AND RECEPTACLE CIRCUITS IN REMODEL AREAS (WEST SIDE OF BUILDING) TO BE REMOVED AND SCRAPPED AS PART OF DEMOLITION.
6. CONTRACTOR REQUIRED TO SUBMIT ALL PANEL SCHEDULES BASED ON ACTUAL CIRCUIT REQUIREMENTS TO ENGINEER FOR REVIEW BEFORE PANELBOARDS WILL BE RELEASED FOR MANUFACTURE. SEE SPECIFICATIONS.

ABBREVIATIONS

- A.C. ABOVE COUNTER
- AFF ABOVE FINISHED FLOOR
- AG ABOVE GRADE
- A,AMP AMPERE
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- CB CIRCUIT BREAKER
- EWC ELECTRIC WATER COOLER
- FA FIRE ALARM
- FBOIC FURNISHED BY OTHERS INSTALLED BY CONTRACTOR
- G, GRD GROUND
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- HP HORSEPOWER
- IG ISOLATED GROUND
- IH INSTANT HOT WATER
- J-BOX JUNCTION BOX
- MCC MOTOR CONTROL CENTER
- N NEUTRAL
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT, FIXTURE NOT SWITCHED
- PNL PANEL
- R RACEWAY
- RO RACEWAY ONLY
- RECEPT RECEPTACLE
- SPECS SPECIFICATIONS
- SW SWITCH
- SWBD SWITCHBOARD
- TELE TELEPHONE
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLT
- VP VANDAL PROOF
- W WIRE OR WATT
- WP WEATHERPROOF
- Ø PHASE
- (E) EXISTING TO REMAIN
- (R) EXISTING TO BE REMOVED
- (ER) EXISTING TO BE RELOCATED

ELECTRICAL DRAWING INDEX

- E001 ELECTRICAL SYMBOLS & ABBREVIATIONS
- E002 STATE ENERGY BUDGET & FIXTURE SCHEDULE
- E101 ELECTRICAL GROUND FLOOR POWER DEMOLITION PLAN
- E102 ELECTRICAL MAIN FLOOR POWER DEMOLITION PLAN
- E103 ELECTRICAL BALCONY & MEZZANINE POWER DEMOLITION PLAN
- E111 ELECTRICAL GROUND FLOOR LIGHTING DEMOLITION PLAN
- E112 ELECTRICAL MAIN FLOOR LIGHTING DEMOLITION PLAN
- E113 ELECTRICAL BALCONY & MEZZANINE LIGHTING DEMOLITION PLAN
- E201 GROUND FLOOR LIGHTING PLAN
- E202 MAIN FLOOR LIGHTING PLAN
- E203 BALCONY, MEZZANINE, & BASEMENT LIGHTING PLAN
- E301 GROUND FLOOR POWER PLAN
- E302 MAIN FLOOR POWER PLAN
- E303 BALCONY & MEZZANINE POWER PLAN
- E401 ONE-LINE & RISER DIAGRAMS
- E501 ELECTRICAL SCHEDULES



CONSTRUCTION DOCUMENTS
BID SET



3		
2	BID SET	12/11/02
1	PERMIT CORRECTIONS 1	7/15/02
NO.	REVISION - AS BUILT	DATE

REVIEWED: *J. Johnson* 11/5/03
PARK ENGINEER DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.



17928 BOTTHELL EVERETT HWY SE, SUITE H
BOTHELL, WASHINGTON 98012
(425) 481-7735 FAX (425) 481-7692

CONTACT: FRANK STARR
JOB NUMBER: 023261

SAND POINT
MAGNUSON PARK
COMMUNITY RECREATION CENTER
BUILDING 47

ELECTRICAL SYMBOLS
&
ABBREVIATIONS

DESIGNED	PHS	DATE	JULY 23, 2002
DRAWN	MDW	DESIGN REVIEW	
CHECKED	LBR		
ORDINANCE NO.	119812 & 119987		
CONTRACT NO.	1616	SHEET	80 OF 76
SCALE	NONE		