SYMBOL EXPLANATION

OR $$$ — EXCEPT WHEN NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS, DEVICES SHOWN IN THIS MANNER INDICATED THE GANGING TOGETHER OF THE DEVICES UNDER COMMON COVER PLATE.

A 23 D — UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE. LOWER CASE LETTER INDICATES CONTROL DEVICE. NUMBER INDICATES CIRCUIT CONNECTION. (REFER TO THE LIGHT FIXTURE SCHEDULE)

OR — ARROWS CONNECTED TO A DEVICE INDICATE AIMING DIRECTION. ARROWS NEAR ALL EXIT SIGNS IDENTIFY DIRECTION OF ARROW ON FACE PLATE. SHADED PORTION OF EXIT SIGN INDICATES FACE(S) TO BE ILLUMINATED.

L6-30 — SPECIAL RECEPTACLES. THE NEMA STANDARD TYPE IS SHOWN WITH AN UPPER CASE LETTER. TYPE AS NOTED. EXAMPLE: NEMA L6-30R, 250V, SINGLE PHASE, 30A, TWIST-LOCK RECEPTACLE

PTR 2 — THE CIRCUIT DESIGNATION IS SHOWN BY NUMBER ADJACENT TO EQUIPMENT. ABBREVIATION NEXT TO CIRCUIT NUMBER INDICATES A DEDICATED CIRCUIT FOR THAT TYPE OF EQUIPMENT. EXAMPLE: WALL MOUNTED DUPLEX RECEPTACLE ON DEDICATED CIRCUIT NUMBER 2 FOR A PRINTER.

EF-1 — SYMBOL WITH EQUIPMENT IDENTIFICATION. SEE MOTOR AND EQUIPMENT SCHEDULE FOR COMPLETE ELECTRICAL INFORMATION. EXAMPLE: EXHAUST FAN #1

LIGHT FIXTURE OR DEVICE SHOW WITH STEM ARE TO BE WALL MOUNTED.

1 — PLAN KEY NOTE. SEE KEYED NOTE SCHEDULE ON THAT DRAWING. ARROW POINTS TO THE ITEM TO WHICH THE NOTE APPLIES.

ELP1 2,4,6 — 3/4"C #8 — INDIVIDUAL HOME RUN TO BRANCH CIRCUIT PANELBOARD. PANELBOARD AND CIRCUIT DESIGNATION ARE PLACED ADJACENT TO HOMERUN ARROW. REFER TO PANEL SCHEDULES FOR AMPS AND NUMBER OF POLES. EXAMPLE: HOMERUN TO PANEL ELP1. UNDESIGNATED TICK MARKS INDICATE #12 CONDUCTORS; NO TICK MARKS INDICATE 2 #12 CONDUCTORS. CONDUCTOR SIZES INDICATED ADJACENT TO SLASH MARKS SHALL APPLY TO ENTIRE CIRCUITS. 10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET (80 m) AND 10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET (160 m).

HP1-1-1 — PANEL BOUNDARY DESIGNATES THE PANELBOARD FROM WHICH BRANCH CIRCUITS ORIGINATE. EXAMPLE: HOMERUN TO PANEL HP1-1-1. REFER TO PANEL SCHEDULES FOR AMPS AND NUMBER OF POLES. ALL CONDUCTORS SHALL BE MINIMUM #12 AWG. 10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET (80 m) AND 10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET (160 m).

ELECTRICAL ABBREVIATIONS

ABBR.	DESCRIPTION
A,AMP	AMPERE
AFF	ABOVE FINISH FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
B	BLANK
BLDG	BUILDING
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
COFF	COFFEE MAKER
CU	COPPER
CLG	CEILING
CMH	COMMUNICATIONS MANHOLE
DED	DEDICATED
DW	DISH WASHER
ELEC	ELECTRIC, ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EX,EXST	EXISTING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPERE
FP	FURNITURE POWER
FT	FURNITURE TELECOMMUNICATIONS
GD	GARBAGE DISPOSAL
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
HORZ	HORIZONTAL ORIENTATION
IPC	INTEGRATED POWER CENTER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LV	LOW VOLTAGE
LCP	LIGHTING CONTROL PANEL
MCA	MINIMUM CIRCUIT AMPACITY
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MW	MICROWAVE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NTS	NOT TO SCALE
OCPD	OVER CURRENT PROTECTIVE DEVICE
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PRI	PRIMARY
PTR	PRINTER
PVC	POLYVINYL CHLORIDE
RCPT	RECEPTACLE
REF	REFRIGERATOR
SEC	SECONDARY
TYP	TYPICAL
UH	UNIT HEATER
V	VOLT
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

A. ELECTRICAL ORDINANCES: ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND FEDERAL LAWS OR ORDINANCES GOVERNING THE PROJECT. IF, IN ANY INSTANCE, THE PLANS AND SPECIFICATIONS ARE IN DIRECT CONFLICT WITH SUCH CODES, LAWS OR ORDINANCES, THE CODE, LAWS AND ORDINANCES SHALL HAVE JURISDICTION AND THE WORK IN QUESTION SHALL BE INSTALLED ACCORDING TO THE CODES, LAWS AND ORDINANCES. ALL WORK SHALL BE INSTALLED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN.

B. BRING ALL DISCREPANCIES SHOWN ON DIFFERENT DRAWINGS AND BETWEEN DRAWINGS AND SPECIFICATIONS OR BETWEEN DOCUMENTS AND FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

C. COORDINATE ELECTRICAL INSTALLATION WITH ALL OTHER CONTRACTORS AND OWNER FOR THE LOCATION AND SIZES OF ALL EQUIPMENT PRIOR TO ROUGH-IN. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER CONTRACTORS OR OWNER, SUCH WORK SHALL BE CHANGED WITH NO ADDITIONAL COST TO OWNER.

D. MOUNT EQUIPMENT AT NOMINAL MOUNTING HEIGHT INDICATED IN ELECTRICAL SYMBOL SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS OR DETAILED IN ARCHITECTURAL ELEVATIONS. DIMENSION SHOWN IS TO CENTER LINE OF BOX. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED DEVICES AND LIGHT FIXTURES.

E. ALL CONDUCTORS SHALL BE COPPER. BUILDING POWER WIRING SHALL HAVE THHN/THWN INSULATION. CONDUCTOR AMPACITY SHALL BE BASED ON TABLE 310-16 OF THE NEC. USE 60-DEGREE C RATING FOR CIRCUITS TERMINATING ON DEVICES RATED BELOW 100A. USE 75-DEGREE RATING FOR CIRCUITS TERMINATING ON DEVICES AND IN ENCLOSURES RATED 100A AND OVER.

F. INSTALL INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.

G. DRAWINGS INDICATE DESIGN LOADS, VOLTAGES, CORRESPONDING CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES. IF EQUIPMENT ACTUALLY FURNISHED HAVE LOADS OTHER THAN THOSE INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN, CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES SHALL BE ADJUSTED IN SIZE ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER. SUCH ADJUSTMENT SHALL BE SUBJECT TO THE REVIEW OF THE ARCHITECT PRIOR TO ACCEPTANCE OR PURCHASE.

H. WHERE BRANCH CIRCUITING HOMERUNS CONTAIN MORE THAN 4 CURRENT CARRYING CONDUCTORS, THE CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS AS WELL AS PROVIDE RACEWAYS WITH A MINIMUM 25% SPARE CAPACITY BASED ON THE CONTRACTOR'S CONDUIT FILL CALCULATIONS AFTER DERATING. THE HOMERUN RACEWAYS SHALL NOT BE LARGER THAN 1 ½" CONDUIT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL RACEWAYS AS NECESSARY TO PROVIDE 25% SPARE CAPACITY, NOT EXCEEDING 1 ½" CONDUIT. IN ADDITION TO THIS, THE CONTRACTOR MUST BASE THE CONDUCTOR DERATING ON THE MAXIMUM ALLOWABLE CONDUCTOR FOR THE RACEWAYS INCLUDING SPARE CAPACITY. THE CONTRACTOR SHALL USE THE MOST PREVALENT CURRENT CARRYING CONDUCTOR SIZE UTILIZED, TO DETERMINE THE QUANTITY OF POTENTIAL CONDUCTORS UTILIZED BY THE SPARE CAPACITY OF THE RACEWAY. FOR EXAMPLE IF #10 AWG CONDUCTORS REPRESENT THE MAJORITY OF CONDUCTORS UTILIZED, THEN #10 AWG SHALL BE USED TO DETERMINE THE NUMBER OF CURRENT CARRYING CONDUCTORS THAT COULD BE CONTAINED IN THE RACEWAY.

I. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATION OF CEILING MOUNTED EQUIPMENT. MOUNT RECESSED CEILING FIXTURES WITH FLEXIBLE METAL CONDUIT OF LENGTH REQUIRED TO MEET MOUNTING LOCATION AND NEC REQUIREMENTS. MAXIMUM FLEXIBLE CONDUIT LENGTH SHALL BE (6') SIX FEET.

J. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ITEMS NECESSARY TO COMPLETE THE INSTALLATION. THIS CONTRACTOR SHALL TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT, DEMOLITION OR INSTALLATION.

K. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL AND MECHANICAL CONSTRUCTION.

L. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL NEW EQUIPMENT, DEVICES, FIXTURES AND CABLES/CONDUCTORS TO BE INSTALLED IN SYSTEM FOR WRITTEN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

M. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

N. SECURITY AND TELECOMMUNICATIONS ARE ALL OWNER FURNISHED. PROVIDE BACK BOXES AND RACEWAYS. COORDINATE BOX SIZE AND LOCATION WITH OWNER AND OWNER'S VENDORS.

O. DURING THE ENERGIZATION AND/OR OUTAGE FOLLOW ESTABLISHED SWITCHING PROCEDURES WITH PLANT MANAGEMENT. COORDINATE WITH THE OWNERS OPERATING PERSONNEL FOR SWITCHING OF CAMPUS MEDIUM VOLTAGE DISTRIBUTION AND GENERATOR DISTRIBUTION. CONTACT HOWARD HIPAKKA ELECTRICAL SUPERVISOR, 651-201-2347.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	NOMINAL MOUNTING HEIGHT
	LIGHTING	
	RECESSED LIGHT FIXTURES	**
	SURFACE MOUNTED LIGHT FIXTURES	**
	RECESSED LIGHT FIXTURES ON EMERGENCY (E) POWER CIRCUIT	**
	SURFACE MOUNTED LIGHT FIXTURES ON EMERGENCY (E) POWER CIRCUIT	**
	EXIT LIGHT	**
	POLE MOUNTED LIGHT FIXTURE	**
	SWITCHES / SENSORS	
$	SINGLE POLE SWITCH	48"
$2	2 POLE SWITCH	48"
$3	3 WAY SWITCH	48"
$4	4 WAY SWITCH	48"
$L	LOW VOLTAGE SWITCH	48"
$D	DIMMER SWITCH	48"
$E	EMERGENCY SWITCH	48"
$F	FAN SWITCH	48"
$K	KEY OPERATED SWITCH	48"
$M	MOMENTARY CONTACT SWITCH	48"
$WP	WEATHERPROOF SWITCH	48"
$P	SWITCH WITH PILOT LIGHT	48"
$T	MOTOR SWITCH	48"
	WALL MOUNTED TIMER SWITCH	**
	WALL OCCUPANCY SENSOR	**
	WALL VACANCY SENSOR (MANUAL ON OCCUPANCY)	**
	WALL STAND ALONE PHOTO SENSOR	**
	CEILING MOUNTED OCCUPANCY SENSOR	
	CEILING MOUNTED VACANCY SENSOR	
	CEILING MOUNTED PHOTO SENSOR	
	POWER	
	SINGLE RECEPTACLE	18"
	DUPLEX 125V RECEPTACLE	18"
	EMERGENCY DUPLEX 125V RECEPTACLE	18"
	GFCI PROTECTED DUPLEX 125V RECEPTACLE	18"
IG	ISOLATED GROUND DUPLEX 125V RECEPTACLE	18"
IG	EMERGENCY ISOLATED GROUND DUPLEX 125V RECEPTACLE	18"
	DOUBLE DUPLEX 125V RECEPTACLE	18"
	GFCI PROTECTED DOUBLE DUPLEX 125V RECEPTACLE	18"
IG	ISOLATED GROUND DOUBLE DUPLEX 125V RECEPTACLE	18"
IG	EMERGENCY ISOLATED GROUND DUPLEX 125V RECEPTACLE	18"
L5-20	SPECIAL PURPOSE RECEPTACLE. LABEL INDICATES RECEPTACLE TYPE.	**
	SWITCHED OR SPLIT WIRED RECEPTACLE	**
	JUNCTION BOX	
	FLOOR BOX CAST-IN-PLACE	
	FLOOR BOX POKE THROUGH	
	PEDESTAL DUPLEX 125V RECEPTACLE SERVICE FITTING	
	FLUSH DUPLEX 125V RECEPTACLE SERVICE FITTING	
	CEILING MOUNTED DUPLEX 125V RECEPTACLE	
PS	PLUGSTRIP	48"
	POWER DISTRIBUTION	
MSS	MOTOR STARTER SWITCH	
	MOTOR	**
	SAFETY DISCONNECT SWITCH	**
	FUSED STARTER	
	COMBINATION STARTER	**
	TRANSFORMER	**
	POWER OR DISTRIBUTION PANEL	**
	SURFACE MOUNTED PANELBOARD	**
	FLUSH MOUNTED PANELBOARD	**

** SEE DRAWING, SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT

SYMBOL	DESCRIPTION	NOMINAL MOUNTING HEIGHT
	COMMUNICATION	
	VOICE OUTLET	18"
	TV OUTLET	18"
	VOICE/DATA OUTLET	18"
	TV OUTLET	**
	INTERCOM	**
	J-HOOK	**
	MICROPHONE JACK	**
	AUXILIARY OUTLET	**
	PROJECTOR OUTLET	**
	REMOTE CONTROL	**
	CLOCK	**
	CHIME	**
	CHIME LIGHT	**
	SPEAKER	**
	EFFECTS SPEAKER OUTLET	**
	VOLUME CONTROL	**
	SECURITY	
	ELECTRIC STRIKE	**
	CODE CARD READER	40"
	DOOR CONTACT	**
	ELECTRO-MAGNETIC LOCK	**
	CCTV CAMERA OUTLET	**
	CEILING MOUNTED CAMERA	**
	DURESS BUTTON	48"
	CCTV MONITOR	48"
	MOTION SENSOR	**
	SIREN	**
	IDS ACTIVATION/DEACTIVATION KEYPAD	**
	FIRE ALARM	
	SMOKE DETECTOR	**
	DUCT SMOKE DETECTOR	**
	SPRINKLER FLOW SWITCH	**
	TAMPER SWITCH	**
	DAMPER OPERATOR WITH MONITOR MODULE	**
	FIRE ALARM MANUAL STATION	48"
	FIRE ALARM AUDIO-VISUAL UNIT	CLG MTD OR 80"
	FIRE ALARM VISUAL UNIT	CLG MTD OR 80"
	FIRE ALARM AUDIO UNIT	CLG MTD OR 80"
	FIRE ALARM PHONE JACK	48"
	HEAT DETECTOR	**
	BEAM DETECTOR RECEIVER	**
	BEAM DETECTOR TRANSMITTER	**
	ADDRESSABLE MONITOR	**
	ADDRESSABLE CONTROL MONITOR	**

** SEE DRAWING, SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT

SYMBOL	DESCRIPTION	NOMINAL MOUNTING HEIGHT
	CONDUIT AND WIRING	
	CONDUIT CONCEALED IN WALL OR OVERHEAD	**
	CONDUIT CONCEALED IN OR BELOW FLOOR	**
	CONDUIT INSTALLED EXPOSED	**
	CONDUIT VERTICAL TRANSITION	**
	CONDUIT STUBBED OUT	**
	CONDUIT SEAL	**
EX	EXISTING CONDUIT	**
EX	EXISTING CONDUIT INTERCEPTED	**
T	UNDERGROUND TELEPHONE	**
L	LOW VOLTAGE CABLE	**
	INDIVIDUAL BRANCH CIRCUIT HOMERUN	**
	MISCELLANEOUS	
	EQUIPMENT AS NOTED	
	KEYNOTE	**
	DASHED SYMBOL INDICATES EXISTING DEVICES TO BE REMOVED.	**
	PUSHBUTTON	48"
	ONE-LINE DIAGRAM SYMBOLS	
	TRANSFORMER	**
	PANEL	**
	DISCONNECT	**
	MOTOR	**
M	UTILITY OR 3RD PARTY METER	**
PM	ELECTRICAL POWER MONITOR	**
CT	CURRENT TRANSFORMER	**
PQM	ELECTRICAL POWER QUALITY MONITOR	**
	CIRCUIT BREAKER	**
000	FEEDER TAG	**

** SEE DRAWING, SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHT

ELECTRICAL EQUIPMENT IDENTIFICATION LEGEND

1 - BUILDING

2 - ELECTRICAL SERVICE BRANCH

( )	NORMAL
(E)	EMERGENCY
(S)	STANDBY
(LR)	LEGALLY REQUIRED
(K)	KITCHEN

3 - EQUIPMENT TYPE

(GEN)	GENERATOR
(SWG)	SWITCHGEAR
(SB)	SWITCHBOARD
(HD)	DISTRIBUTION PANEL - 480V
(LD)	DISTRIBUTION PANEL - 208V
(HP)	BRANCH PANEL - 480/277V
(LP)	BRANCH PANEL - 208/120V
(T)	TRANSFORMER
(M)	METER
(ATS)	AUTOMATIC TRANSFER SWITCH
(DS)	DISCONNECT SWITCH
(LCP)	LIGHTING CONTROL PANEL/ RELAY PANEL

4 - LEVEL

(T)	TERRACE
(G)	GROUND
(1)	FIRST
(2)	SECOND
(3)	THIRD
(4)	FOURTH
(R)	ROOF

5 - LOCATION

(N)	NORTH
(S)	SOUTH
(E)	EAST
(W)	WEST
(NW)	NORTHWEST
(SW)	SOUTHWEST
(NE)	NORTHEAST
(SE)	SOUTHEAST
(C)	CENTERAL

6 - NUMERICAL SEQUENCE ON SPECIFIED FLOOR

(1 - 6) PANELS IN RISER ROOMS 1 THROUGH 6 ON TERRACE LEVEL THROUGH ROOF LEVEL

**EXAMPLE

1 234 5
P - EL2 - 1

(EMERGENCY, 480/277V LIGHTING PANEL, SECOND LEVEL, PANEL #1)

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NAME: LEIGH HARRISON
DATE: JUNE 14, 2013
REGISTRATION NUMBER: 40448

NO	DESCRIPTION	DATE

REVISION HISTORY - THIS SHEET

HGA NO: 0476-061-00

ELECTRICAL COVER SHEET

WORK PACKAGE 1

E000

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