

GENERAL NOTES

- ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK IS TO BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THE CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE COMMISSIONER DIRECTS OTHERWISE.
- THE CONTRACTOR IS TO CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE CONTRACTOR IS TO CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN FOR REFERENCE ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF THE STATION EQUIPMENT.
- EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT IS TO BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS ARE TO BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- ELECTRICAL DRAWINGS ARE DIAGRAMATIC IN NATURE. NO DIMENSIONS ARE TO BE SCALED OFF ELECTRICAL DRAWINGS. CONTRACTOR IS TO CONSULT ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, MISCELLANEOUS DEVICES AND OUTLETS.
- COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE PROJECT TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
- CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMATIC. ALL CONDUITS ARE TO RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY THE COMMISSIONER.
- FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CHICAGO ELECTRICAL CODE REQUIREMENTS.
- NORMAL AND EMERGENCY SYSTEMS ARE TO BE INSTALLED IN SEPARATE RACEWAYS, AND ARE NOT TO BE IN SHARED RACEWAYS.
- CONTRACTOR IS TO COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS.
- ALL BRANCH CIRCUITS ARE TO BE GROUPED INTO PHASE BALANCED MULTIPLE CIRCUIT HOMERUNS. NOT MORE THAN 6 CIRCUITS ARE ALLOWED IN ONE HOMERUN CONDUIT. ANY CONDUITS ARE NOT TO CONTAIN MORE THAN ONE 3-PHASE, 4-WIRE FEEDER. A GROUND WIRE IS TO BE INSTALLED IN EACH CONDUIT FEEDER FROM CT-N DOWN STREAM.

CONDUIT SYMBOLS

- — — — — CONCEALED CONDUIT ABOVE CEILING
- - - - - UNDERGROUND OR UNDERSLAB CONDUIT
- HOMERUN TO PANEL
- ⌒ FLEXIBLE CONDUIT

FIRE ALARM SYMBOLS

- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- FACP FIRE ALARM CONTROL PANEL
FIRE ALARM PANEL
AUDIO VISUAL FIRE ALARM
SPEAKER/HORN W/FLASHING
INDICATING LIGHT
- AR ADDRESSABLE RELAY

ABBREVIATIONS

A, AMP	AMPERE
A/C	AIR CONDITIONER
A.C.	ALTERNATING CURRENT
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
A.W.G.	AMERICAN WIRE GAUGE
ADD.	ADDENDUM
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AVM	AUTOMATIC VENDING MACHINE
BE	ELECTRONIC BALLAST (RELIABLE POWER) BREAKER
BKR.	BREAKER
BN	ELECTRONIC BALLAST (NORMAL POWER)
BPS	BOLTED PRESSURE SWITCH
BU	ELECTRONIC BALLAST (EMERGENCY)
C	CONDUIT
CA	CUSTOMER ASSISTANCE CALL STATION
CCTV	CLOSE CIRCUIT TELEVISION
CKT.	CIRCUIT
CM	COIN CHARGER MACHINE
COL	COLUMN
COMED	COMMONWEALTH EDISON CO.
CONFIG	CONFIGURATION
CONN	CONNECTION
CT	CURRENT TRANSFORMER
CTA	CHICAGO TRANSIT AUTHORITY
CUH	ELECTRIC CABINET UNIT HEATER
D.C.	DIRECT CURRENT
DCC	DC CONTROLLER
DET.	DETAIL
DIA.	DIAMETER
DN	DOWN
DS	DISCONNECT SWITCH
DTS	MANUAL DBL. THROW SWITCH
DWG.	DRAWING
E.O.	ELECTRICALLY OPERATED
EA.	EACH
EC	END CABINET
EH	ELECTRIC HOT WATER HEATER
ELEC.	ELECTRIC
ELEV.	ELEVATION
EM	EMERGENCY
EQUIP.	EQUIPMENT
ER	EXISTING TO BE REMOVED
REL.	RELIABLE TRANSPORTATION SYSTEM
EWC.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXP.	EXPOSED
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FL	FLOOR
FLEX.	FLEXIBLE
FLUOR	FLUORESCENT
FOE	FIBER OPTICS EQUIPMENT
FRE	FIBER REINFORCED EQUIPMENT
FT	FEET, FOOT
G.F.I.	GROUND FAULT INTERRUPTER
GA	GAUGE
GALV.	GALVANIZED
GRD.	GROUND
GRS	GALVANIZED RIGID STEEL
H	HOT WIRE

H.D.G.	HOT DIPPED GALVANIZED
HP	HORSEPOWER, HEATING PANELBOARD
HT	HEIGHT
HTR.	HEATER
I.C.	INTERCOM
I.T.C.	INTERFACE TERMINAL CABINET
J.B.	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LAM.	LAMINATED
LP	LIGHTING PANELBOARD
LTG.	LIGHTING
M	METER
M/A	MOTOR ALTERNATOR SET
M.H.	MOUNTING HEIGHT
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MT	METER FOR TENANT
MTG.	MOUNTING
MTR.	MOTOR
N	NEUTRAL WIRE
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
NB	NORTH BOUND
NMDP	NORMAL MAIN DISTRIBUTION PANEL
NO.	NUMBER
P	POLE
P.B.	PULL BOX
PA	PUBLIC ADDRESS SYSTEM
PDP	POWER DISTRIBUTION PANEL
PLTF.	PLATFORM
PNL.	PANEL
PWR	POWER
RCP	ALARM RELAY CONTROL PANEL
RECP.T.	RECEPTACLE
REV.	REVISION
RG	ROTO GATE
RGS	RIGID GALVANIZED STEEL
RLP	RELIABLE LIGHT PANEL
RM.	ROOM
RMDDP	RELIABLE MAIN DISTRIBUTION PANEL
SB	SOUTH BOUND
SF	SUPPLY FAN
SHT.	SHEET
STL.	STEEL
T, TEL	TELEPHONE
TB-E	TERMINAL STRIP
	R-DENOTES RELIABLE POWER
	N-DENOTES NORMAL POWER
	U-DENOTES EMERGENCY POWER
TTC	TELEPHONE TERMINAL CABINET
U.N.O.	UNLESS NOTED OTHERWISE
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY SYSTEM
V.	VOLTS
V.A.C.	VOLTS ALTERNATING CURRENT
W.P.	WEATHER PROOF
W/	WITH

POWER SYMBOLS

- CURRENT TRANSFORMER
- CIRCUIT BREAKER RATING AS NOTED (SINGLE POLE UNLESS NOTED OTHERWISE)
- FUSE, UL RATED FOR 30 AMP
- PANELBOARD CONNECTED TO NORMAL POWER
LP=LIGHTING PANEL
HP=HEATING PANEL
RP=REVENUE PANEL
CP=COMMUNICATION PANEL
- PANELBOARD CONNECTED TO EMERGENCY POWER
- 240V. NON-FUSIBLE HORSEPOWER RATED MOTOR DISCONNECT SWITCH, (U.N.O.) SIZE, LETTER AND NUMBER DENOTES SWITCH SIZE. M.H. = 4'-6" A.F.F. U.N.O.
- 240V. FUSIBLE MOTOR DISCONNECT SWITCH, (U.N.O.) SIZE, LETTER AND NUMBER DENOTES SWITCH SIZE. M.H. = 4'-6" A.F.F. U.N.O.
- FEEDER DESIGNATION
SEE SHEET \$E-1 AND \$E-17
- BOLTED PRESSURE SWITCH
- FRONT OF SWITCHGEAR
- CABLE LIMITER
- SILL HEATER
- DOOR CONTACT SWITCH
- DEVICE
CIRCUIT NUMBER
LP-1
PANEL

CONTROL SYMBOLS

- RELAY COIL
- CONTACTOR COIL
- NORMALLY OPEN CONTACT OF RELAY OR STARTER
- NORMALLY CLOSED CONTACT OF RELAY OR STARTER
- OVERLOAD RELAY CONTACT
- THERMAL OVERLOAD RELAY
- CONTROL CKT. FUSE
- PUSH BUTTON NORMALLY CLOSED MOMENTARY CONTACT
- PUSH BUTTON NORMALLY OPEN MOMENTARY CONTACT
- TWO POSITION SELECTOR SWITCH SHOWN IN POSITION 2
X INDICATES POSITION WHERE CONTACT IS CLOSED
- TIMED CONTACT NORMALLY OPEN TIMED OPEN
TDO
- TIMED CONTACT NORMALLY CLOSED TIMED CLOSED
TDC
- THERMAL LIMIT CONTROL OR THERMOSTAT SWITCH
- PILOT LIGHT INDICATING THE STATE OF A CIRCUIT
- PILOT LIGHT WITH PUSH TO TEST BUTTON

MECHANICAL SYMBOLS

- IH-1 INFRARED HEATER 3200W, 208V, 1P, 3W
AITKEN #SQH326A STAINLESS STEEL 60 DEGREE ASYM REFLECTOR
- IH-2 INFRARED HEATER 3200W, 208V, 1P, 3W
AITKEN #SQ326 STAINLESS STEEL 30 DEGREE SYM REFLECTOR
- DO ADA DOOR OPERATOR
- EF-# EXHAUST FAN WITH INTEGRAL DISCONNECT SWITCH
- H-# ELECTRIC WALL HEATER WITH INTEGRAL DISCONNECT SWITCH
- SP SUMP PUMP

WIRING DEVICE SYMBOLS

- | STRUCTURE | WALL | CEILING | |
|-----------|-----------|---------|---|
| | \$0 | | SINGLE POLE TOGGLE SWITCH, LOWER CASE LETTER DENOTES OUTLETS CONTROLLED |
| | \$D,K,P,T | | TOGGLE SWITCH: "D" INDICATES DOOR OPERATED, "K" KEY OPERATED, "P" WITH PILOT LIGHT, "T" WITH THERMAL OVERLOAD ELEMENT |
| | \$2 | | TWO POLE TOGGLE SWITCH |
| | \$3 | | THREE-WAY TOGGLE SWITCH |
| PB | | PB-H | SPLICE BOX, JUNCTION BOX OR PULL BOX WITH BLANK COVER, MINIMUM SIZE AS REQUIRED BY CITY OF CHICAGO CODE (EXPOSED) |
| JB | J | JB-H | DUPLEX FLUSH RECEPTACLE, 20A., 125V., 3W GROUNDING TYPE |
| | GFI | | GROUND FAULT INTERCEPTOR DUPLEX FLUSH RECEPTACLE 20A, 125V, 3W GROUNDING TYPE |
| | PB | | PUSHBUTTON |
| | HP | | START-STOP PUSHBUTTON |

LIGHTING SYMBOLS

- EXIT SIGN LIGHTING FIXTURE ON EMERGENCY CIRCUIT
- LED FIXTURE ON NORMAL CIRCUIT
- LED FIXTURE ON EMERGENCY CIRCUIT
- INCANDESCENT LIGHTING FIXTURE TYPE "B", ON ON CIRCUIT NO. 1 CONTROLLED BY SWITCH "a"
- NOMENCLATURE:
CIRCUIT NUMBER
PANEL
FIXTURE TYPE
PHOTOCELL



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USER NAME = habib	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 2:0' = 1" / in.	DRAWN -	REVISED -
PLOT DATE = 10/28/2013	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEORIA STREET STATION
ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES

SHEET NO.78 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	269
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				