

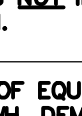

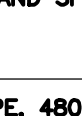


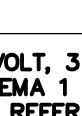
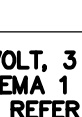
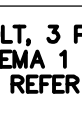



GENERAL ELECTRICAL EQUIPMENT SCHEDULE			
THE SYMBOLS AND THE EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.			
CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.			
ITEM NO.	SYMBOL	DESCRIPTION	BASIS OF DESIGN
1	DEVICE COLOR	ALL SWITCH, RECEPTACLE, OUTLET, AND COVERPLATE COLORS SHALL BE VERIFIED WITH VA PROJECT MANAGER, UNLESS INDICATED OTHERWISE.	HUBBELL LEVITON PASS & SEYMOUR COOPER
2	COVER PLATES	ALL SWITCHES, RECEPTACLES, AND OUTLETS SHALL BE COMPLETE WITH #302 STAINLESS STEEL COVERPLATES IN FINISHED SPACES WHERE WALLS ARE FINISHED; #302 STAINLESS STEEL COVERPLATES IN UNFINISHED SPACES FOR FLUSH BOXES; AND GALVANIZED STEEL COVERPLATES IN UNFINISHED SPACES FOR SURFACE MOUNTED BOXES. WHERE SEVERAL DEVICES ARE OAKED TOGETHER, THE COVER PLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED. INSTALL NAMEPLATE IDENTIFICATION FOR ALL DEVICES.	HUBBELL LEVITON PASS & SEYMOUR COOPER
3	S	SWITCH, SINGLE POLE, SINGLE THROW, 120/277 VOLT, 20 AMP, TOGGLE HANDLE, MAINTAINED CONTACT, SIDE AND BACK WIRED.	HUBBELL HBL1221 LEVITON 1221-2 PASS & SEYMOUR PS20AC1 COOPER 2221
4		RECEPTACLE, DUPLEX, HOSPITAL GRADE, 125 VOLT, 20 AMP, 3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R, IMPACT RESISTANT THERMOPLASTIC FACE, ONE PIECE NICKEL-PLATED BRASS BACK STRAP WITH INTEGRAL GROUND CONTACTS. DOUBLE DUPLEX, CONSIST OF TWO DUPLEX RECEPTACLES, DOUBLE GANG BOX, PLASTER RING AND FACEPLATE.	HUBBELL HBLR300 LEVITON 8300 PASS & SEYMOUR 8300 COOPER 8300
5		ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZE PER N.E.C. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING EQUIPMENT OR MOTOR. REFER TO SPECIFICATIONS AND GENERAL INSTALLATION NOTES FOR TERMINATIONS TO MOTORS.	REFER TO SPECIFICATIONS
6		JUNCTION BOX, SIZE PER N.E.C., REFER TO SPECIFICATIONS FOR GENERAL CONSTRUCTION. USE OF THIS SYMBOL DOES NOT INDICATE ALL JUNCTION BOXES REQUIRED FOR THIS CONTRACT ARE SHOWN.	REFER TO SPECIFICATIONS
7		DIGITAL POWER METER, MOUNTED IN FACE OF EQUIPMENT/DISTRIBUTION PANEL, DIGITAL READOUT OF VOLTS, AMPS, KW, KWH, DEMAND KW, KWH, NETWORK COMMUNICATIONS CAPABLE. DO NOT INSTALL IN AUXILIARY COMPARTMENT UNLESS THERE IS PHYSICAL SPACE ADJACENT TO THE PANEL FOR THE COMPARTMENT. IF PHYSICAL SPACE DOES NOT EXIST, PROVIDE SEPARATE ENCLOSURE AND MOUNT ABOVE DISTRIBUTION PANEL.	COMPATIBLE WITH EXISTING SQUARE D POWER LOGIC SYSTEM
8		DISTRIBUTION PANEL, CIRCUIT BREAKER TYPE, 480 VOLT, 3 PHASE, GROUND BUS, SURFACE MOUNTED NEMA 1 ENCLOSURE, SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS.	SQUARE D I-LINE GENERAL ELECTRIC SIEMENS P4 CUTLER-HAMMER PRL5
9		DISTRIBUTION PANEL, CIRCUIT BREAKER TYPE, 480/277 VOLT, 3 PHASE, S/N, GROUND BUS, SURFACE MOUNTED NEMA 1 ENCLOSURE, SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS.	SQUARE D I-LINE GENERAL ELECTRIC SIEMENS P4 CUTLER-HAMMER PRL5
10		DISTRIBUTION PANEL, CIRCUIT BREAKER TYPE, 208/120 VOLT, 3 PHASE, S/N, GROUND BUS, SURFACE MOUNTED NEMA 1 ENCLOSURE, SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS.	SQUARE D I-LINE GENERAL ELECTRIC SIEMENS P4 CUTLER-HAMMER PRL5
11		DISTRIBUTION PANEL, CIRCUIT BREAKER TYPE, 208/120 VOLT, 3 PHASE, S/N, GROUND BUS, 500A MCB, SURFACE MOUNTED COLUMN WIDTH NEMA 1 ENCLOSURE, REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS.	SQUARE D I-LINE GENERAL ELECTRIC SIEMENS P4 CUTLER-HAMMER PRL5
12		PANELBOARD, SURFACE MOUNT, 480/277 VOLT, 3 PHASE, 4 WIRE, S/N, GROUND BUS, COPPER BUS, BOLT-ON BREAKERS, NEMA 1 ENCLOSURE, REFER TO SCHEDULES FOR SIZE AND CONFIGURATION. REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NF GENERAL ELECTRIC AE SIEMENS P1 CUTLER-HAMMER PRL2
13		PANELBOARD, SURFACE MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, S/N, GROUND BUS, COPPER BUS, BOLT-ON BREAKERS, NEMA 1 ENCLOSURE, REFER TO SCHEDULES FOR SIZE AND CONFIGURATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NQ GENERAL ELECTRIC AQ SIEMENS P1 CUTLER-HAMMER PRL1
14		PANELBOARD, RECESS MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, S/N, GROUND BUS, COPPER BUS, BOLT-ON BREAKERS, NEMA 1 ENCLOSURE, REFER TO SCHEDULES FOR SIZE AND CONFIGURATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE D NQ GENERAL ELECTRIC AQ SIEMENS P1 CUTLER-HAMMER PRL1

LUMINAIRE SCHEDULE																	
(MTG) MOUNTING: RE - RECESSED SP - SUSPENDED CL - CEILING SURFACE WL - WALL UC - UNDER CABINET OV - COVE PL - POLE FR - FLANGED RECESSED O - OTHER (SEE DESCRIPTION) DOOR: FA - FLAT ALUMINUM FS - FLAT STEEL RA - REGRESSED ALUMINUM RS - REGRESSED STEEL		(Type) LAMP TECHNOLOGY: FL - FLUORESCENT CP - COMPACT FLUORESCENT HL - HALOGEN IN - INCANDESCENT LED - LIGHT EMITTING DIODE HS - HIGH PRESSURE SODIUM MH - METAL HALIDE SMH - SUPER METAL HALIDE PSMH - PULSE START METAL HALIDE CMH - CERAMIC METAL HALIDE O - OTHER (SEE DESCRIPTION) XL - EXTENDED LIFE XLP - EXTENDED LIFE & OUTPUT	(L/L) LENS/LOUVER: A - 12" ACRYLIC B - BLACK BAFFLE C - CLEAR ALZAK D - PARABOLIC F - FRESNEL G - TEMPERED GLASS H - WALL WASHER P - POLY CARBONATE K - KSH12 12" ACRYLIC K19 - KSH19 19" ACRYLIC L - LOW RIDESCENT SPECULAR ALUM. N - NONE R - HIGH IMPACT DR ACRYLIC O - OTHER (SEE DESCRIPTION)														
FINISH: PAF - PAINT AFTER FABRICATION CBA - FINISH SELECTION BY ARCHITECT	(TYPE) BALLAST: DIM07 - LINE DIMMING BALLAST DIM10 - D10 DIMMING BALLAST HL - HIGH / LOW LEVEL BALLAST ML - MULTI-LEVEL SWITCHING HP - HIGH PERFORMANCE / LBF		(TYPE) BALLAST: EB - ELECTRONIC BALLAST EM - EMERGENCY BATTERY/BALLAST DALI - DIGITAL DIMMING BALLAST MV - MULTI-VOLTAGE ELECTRONIC 120V/277V PRS - ELECTRONIC PROGRAM RAPID START BALLAST		CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN. REFER TO SPECIFICATION SECTIONS LIGHTING 26 S1 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.												
ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 5000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 75, UNLESS NOTED OTHERWISE.																	
DIMENSIONS		LAMPS				BALLAST											
ITEM	DESCRIPTION				L	W	H	DIA	MTG	TYPE	QTY	MODEL	VOLTS	TYPE	L/L	APPROVED MANUFACTURER	
F1	48" INDUSTRIAL WITH 10% UPLIGHT, BAKED ENAMEL FINISH				48"	12"				SP	FL	2	32WATT F32TS RS	120V	EB		LITHONIA EISA232 DAY-BRITE IAC232 H E WILLIAMS 80-4-232 COLUMBIA CS94-232-U METALUX IAC-232

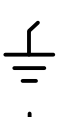
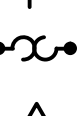



DISCONNECT AND STARTER SCHEDULE									
REMARKS:									
STARTER TYPE:									
FV - FULL VOLTAGE									
YD - WYE - DELTA									
RE - REVERSING									
TW - 2 SPEED, 2 WINDING									
SW - 2 SPEED, 1 WINDING									
RV - REDUCED VOLTAGE AUTOXFMR									
SS - SOLID STATE									
MD - MOTOR DISCONNECT									
MS - MANUAL STARTER									
MX - MANUAL SWITCH									
FS - FUSED SWITCH									
DISCONNECT TYPE & RATING				STARTER			NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
ITEM	FUSED	NON-FUSED	CIRCUIT BREAKER	VOLTAGE	POLES	NEMA SIZE			
FCS-1	30A			480	3	1	FV	SA, FUSED AS NOTED	SQUARE D 8538 SCG34 CUTLER-HAMMER TYPE EGN GENERAL ELECTRIC CR08H SIEMENS CLASS 17
CB-801			100A	480	3			SURFACE MOUNT	SQUARE D 650 FAL340100 610 P41005 CUTLER-HAMMER GENERAL ELECTRIC SIEMENS

TRANSFORMER SCHEDULE									
TYPE:									
TP1 - NEMA TP 1 DRY TYPE									
K4 - K4 RATED TP 1 DRY TYPE									
K13 - K13 RATED TP 1 DRY TYPE									
PE - NEMA PREMIUM EFFICIENCY									
HM - HARMONIC MITIGATING TP 1									
AUT - AUTOTRANSFORMER									
BB - BUCK-BOOST									
LIQ - LIQUID FILLED									
REMARKS:									
AL - ALUMINUM WINDINGS									
CP - COPPER WINDINGS									
RS - EPOXY RESIN ENCAPSULATED									
FL - FILTERED									
NV - NON-VENTILATED									
NL - 200% RATED NEUTRAL									
EL - ELECTROSTATIC SHIELD									
ENCLOSURE: NEMA 1 UNLESS SPECIFIED OTHERWISE									
ITEM	KVA RATING	TYPE	MAX. TEMP. RISE C.	PRIMARY VOLTS	PH	SECONDARY VOLTS	PH	TAPS % REG	REMARKS
TR-225	225	TP1	150	480	3	208Y/120	3	2.5	2 AL
APPROVED MANUFACTURERS									
SQUARE D 7400 EE225T3H CUTLER-HAMMER TYPE DT3 GENERAL ELECTRIC TYPE OL SIEMENS 3F3Y225T31									

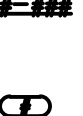

ELECTRICAL DEMOLITION NOTES:

- THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
- ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE VA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL. THE VA DOES NOT WANT TO REUSE OR RETAIN (i.e., FOR MAINTENANCE PURPOSES).
- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE VA BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC. COORDINATE ALL OUTAGES WITH THE VA. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
- EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
- EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
- CONTRACTOR SHALL REMOVE AND INSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR. NO MORE THAN 10 CEILING TILES OUT AT A TIME WHEN CONTRACTOR IS WORKING IN THE AREA. ALL CEILING TILES MUST BE IN PLACE AT THE END OF THE WORK DAY OR WHEN THE CONTRACTOR LEAVES THE AREA.

ONE LINE DIAGRAM NOTES:

- SCOR AND AIG RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS "SERIES RATED".
- ALL FUSES FROM 0 AMPERE TO 200 AMPERE SHALL BE DUAL ELEMENT, CLASS RK-5 UNLESS NOTED OTHERWISE.
-  INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS.
-  INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
-  INDICATES OVERLOADS SIZED PER MOTOR NAMEPLATE FULL LOAD AMPERES.
-  INDICATES STARTER NEMA SIZE.
- CONDUCTORS ARE SIZED BASED ON NEC TABLE 310.16, FOR THE LISTED QUANTITY OF COPPER CONDUCTORS, IN RACEWAY, CONDUCTOR IMPACTS ARE BASED ON 60°C AND 75°C TEMPERATURE RATINGS, UNLESS NOTED OTHERWISE.
- ALL WIRE SHALL BE TYPE "THIN" ABOVE GRADE. FEEDERS LOCATED BELOW FLOOR SLAB OR UNDERGROUND SHALL BE TYPE "THIN".
- CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
-  INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.

GENERAL ELECTRICAL NOTES:

- "1/300" INDICATES DETAIL NUMBER/SHEET NUMBER.
-  INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
-  INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
- "NL" ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
- "SE" ABBREVIATION KEY:
E.C. ELECTRICAL CONTRACTOR
G.C. GENERAL CONTRACTOR
AFF ABOVE FINISHED FLOOR
C CONDUIT
TYP TYPICAL
MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
- LINE TYPE KEY:
————— NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
----- NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
————— NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
----- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EARLY AS POSSIBLE BETWEEN EACH PHASE.
- A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- FLUSH