

POWER and LIGHTING

⊖	20 AMP, 125 VOLT, SINGLE GROUNDING TYPE RECEPTACLE. HUBBELL #5361. MOUNT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	FLOOR MOUNTED SINGLE RECEPTACLE.
⊖	20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE. HUBBELL #5362. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	CEILING MOUNTED DUPLEX RECEPTACLE.
⊖	FLOOR MOUNTED DUPLEX RECEPTACLE.
⊖	SPECIAL PURPOSE OUTLET. REFER TO DRAWINGS FOR DESCRIPTION. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
⊖	FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE.
⊖	DOT INDICATES NEW 20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE. HUBBELL #5362 INSTALLED IN EXISTING RECESSED BOX. RECONNECT TO NEW OR EXISTING BRANCH CIRCUIT WIRING.
⊖	20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL1221 AND 20 AMP DUPLEX GROUNDING TYPE RECEPTACLE #5362 IN COMMON BOX WITH COMMON PLATE. MOUNT 44" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.
⊖	20 AMP, 125 VOLT DUPLEX (OR QUAD) ISOLATED GROUND TYPE. HUBBELL #05382. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	DUPLEX RECEPTACLE OVER COUNTER. VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
⊖	20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE. SPLIT WIRE (UPPER HALF SWITCHED, LOWER HALF DERIGIDED CONTINUOUSLY). HUBBELL #5362. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	TWO 20 AMP, 125 VOLT DUPLEX GROUNDING TYPE RECEPTACLES. HUBBELL #5362 MOUNT IN COMMON BOX WITH COMMON PLATE AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE. HUBBELL #GF-5362. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	15 AMP, 125 VOLT SINGLE RECEPTACLE WITH CLOCK HANGER AND STAINLESS STEEL PLATE. HUBBELL #5235. VERIFY EXACT LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
⊖	20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE. HUBBELL #GF-5362. WITH WEATHERPROOF COVERPLATE. MOUNT AT 24" AFF UNLESS NOTED OTHERWISE.
⊖	20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE FOR ELECTRIC WATER COOLER. HUBBELL #GF-5362. LOCATE PER WATER COOLER SUPPLIER'S SHOP DRAWINGS.
⊖	20 AMP, 125 VOLT, DUPLEX SURGE SUPPRESSION RECEPTACLE WITH BLUE FACE, LIGHT AND ALARM. HUBBELL #5362S. MOUNT AT 18" TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	50 AMP, 125/250 VOLT, FLUSH MOUNTED ELECTRIC RANGE RECEPTACLE. HUBBELL #9450A WITH HUBBELL #9452C PLUG. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
⊖	CONCEALED SERVICE FLOOR BOX COMPLETE WITH ONE 20 AMP, 125 VOLT, DUPLEX RECEPTACLE AND/OR AUXILIARIES AS REQUIRED. STEEL CITY #664-CI OR EQUIVALENT. USE CAST IRON IN FLOOR SLAB IN CONTACT WITH EARTH. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS: P = POWER PT = POWER AND TELEPHONE PD = POWER AND DATA (COMPUTER) PTD = POWER, TELEPHONE AND DATA (COMPUTER) REFER TO SPECIFICATIONS FOR DETAILS.
⊖	PREWIRED, FIRE RATED POKE-THRU UNIT SUITABLE FOR POWER AND COMMUNICATION COMPLETE WITH FLUSH PROFILE. 20 AMP, 125 VOLT DUPLEX GROUNDING TYPE RECEPTACLE. STEEL CITY #PT-700-A OR EQUIVALENT. VERIFY EXACT LOCATION WITH ARCH. PRIOR TO ROUGH-IN. REFER TO SPECIFICATIONS FOR DETAILS.
⊖	STANDARD STEEL JUNCTION BOX WITH COVER IN AN ACCESSIBLE LOCATION. LOCATE AND CONNECT AS DIRECTED. SUBSCRIPTS INDICATES EQUIPMENT SERVED. DW - DISHWASHER EW - ELECTRIC WATER COOLER EH - ELECTRIC DUCT HEATER FSS - FIRE SUPPRESSION SYSTEM (KITCHEN) HD - HAND DRYER HOOD - RANGE (OR FUME) HOOD HT - HEAT TRACE CABLE PK - PACKAGED KITCHEN UNIT RA - RANGE TC - TEMPERATURE CONTROL VAV - VAV TERMINAL UNIT WH - WALL HEATER
⊖	FLOOR MOUNTED JUNCTION BOX.
⊖	TELEPOWER POLE WITH (2) 20 AMP, 125V, DUPLEX GROUNDING RECEPTACLES AND COMMUNICATIONS RACEWAY (WIRMOLO SERIES 250TP OR EQUIVALENT) COORDINATE COLOR SELECTION WITH ARCHITECT. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
⊖	TELEPOWER POLE WITH FITTINGS AND COVERPLATE ACCESSORIES REQUIRED FOR CONNECTION TO PREWIRED MODULAR FURNITURE SYSTEMS. PRE-ASSEMBLED WHIP CONNECTION FURNISHED BY FURNITURE SYSTEM SUPPLIER FOR ELECTRICAL CONTRACTOR TO INSTALL AND TERMINATE. CONFIRM WHIP AVAILABILITY AND REQUIREMENTS WITH FURNITURE SUPPLIER.
⊖	SURFACE METAL RACEWAY (WIREMOLD 4000 SERIES OR EQUIVALENT) WITH DUPLEX GROUNDING RECEPTACLES ON 18" CENTERS. FURNISH ALL END PLATES, FITTINGS AND MOUNTING CLIPS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE (2) 1-1/4" EMPTY CONDUITS ALTERNATING BRANCH CIRCUITS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE CENTER BARRIER FOR USE WITH BOTH POWER AND COMMUNICATION WIRING. PROVIDE (2) 1-1/4" EMPTY CONDUITS WITH PULL STRINGS FROM EACH END OF COMMUNICATION WIRING COMPARTMENT TO SPACE ABOVE ACCESSIBLE CEILING. COORDINATE COLOR SELECTION AND MOUNTING HEIGHT WITH ARCHITECT.

\$	20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL1221. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$2	20 AMP, TWO POLE SWITCH. HUBBELL #HBL1222. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$3	20 AMP, THREE-WAY SWITCH. HUBBELL #HBL1223. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$4	20 AMP FOUR-WAY SWITCH. HUBBELL #HBL1224. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$	DOT INDICATES NEW 20 AMP SWITCH MOUNTED IN EXISTING RECESSED BOX. RECONNECT TO NEW OR EXISTING BRANCH CIRCUIT WIRING.
\$6	SWITCH CONTROLLING FIXTURE(S) DESIGNATED BY SUBSCRIPT (a,b,c, etc.).
\$6C	PROJECTOR SCREEN SWITCH. FURNISHED BY GENERAL CONTRACTOR BUT INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. MOUNT AT HEIGHTS AS DIRECTED BY ARCHITECT.
\$K	20 AMP, SINGLE POLE, KEY OPERATED, LOCK-TYPE SWITCH. HUBBELL #HBL1221. MOUNT AT 44" AFF UNLESS NOTED OTHERWISE.
\$K3	20 AMP, SINGLE POLE, 3 WAY, KEY OPERATED, LOCK-TYPE SWITCH. HUBBELL #HBL1223. MOUNT AT 44" AFF UNLESS NOTED OTHERWISE.
\$MS	MANUAL MOTOR STARTER WITH NEON PILOT LIGHT. ALLEN-BRADLEY #00070X216. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$T	THERMAL OVERLOAD SWITCH.
\$P	20 AMP, SINGLE POLE SWITCH WITH INTEGRAL RED PILOT LIGHT. HUBBELL #HBL1221-PL7. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$HP	20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL1221. PROVIDE WEATHERPROOF COVER WITH HINGE ON TOP. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$S	20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL1221. SURFACE MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
\$IR	CEILING OR WALL MOUNTED, INFRARED SENSING OCCUPANCY SENSOR DEVICE. (WATT STOPPER "CI-200" SERIES OR EQUIVALENT)
\$US	CEILING OR WALL MOUNTED, ULTRASONIC OCCUPANCY SENSOR DEVICE. (WATT STOPPER "W" SERIES OR EQUIVALENT)
\$D	CEILING OR WALL MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR. (INFRARED AND ULTRA-SONIC SENSING) (WATT STOPPER "DT" SERIES OR EQUIVALENT)
●	FLUORESCENT DIMMER SWITCH LUTRON NOVA "T" SERIES. MOUNT AT 44" AFF TO CENTER LINE UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES DIMMER WATTAGE: A = 600 WATTS B = 1000 WATTS C = 1500 WATTS D = 2000 WATTS
■	INCANDESCENT DIMMER SWITCH LUTRON NOVA "T" SERIES. MOUNT AT 44" AFF TO CENTER LINE UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES DIMMER WATTAGE: A = 600 WATTS B = 1000 WATTS C = 1500 WATTS D = 2000 WATTS
■	FLUORESCENT, INCANDESCENT, AND/OR HID LIGHTING FIXTURE COMPLETE WITH LAMPS. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
□	TRACK LIGHTING. COORDINATE STYLE, TYPE AND COLOR WITH ARCHITECT. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
□	HID SITE POLE LIGHT COMPLETE WITH LAMP(S) AND POLE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
□	EXIT LIGHTS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS. SURFACE MOUNT ON WALL OR CEILING AS DIRECTED BY ARCHITECT.
□	UNUNITED EMERGENCY LIGHTING FIXTURE WITH INTEGRAL BATTERY AND CHARGING UNIT. SURFACE MOUNT ON EITHER WALL OR CEILING AS DIRECTED BY ARCHITECT.
□	LIGHTING FIXTURE NOTATION A, 1, b INDICATES: A = FIXTURE TYPE, REFER TO SCHEDULE 1 = CIRCUIT NUMBER b = SWITCH CONTROLLING FIXTURE
□	HALF SHADED FIXTURE TYPE FURNISHED WITH BATTERY PACK PER SPECIFICATIONS. (NIGHT LIGHT (NL) WHERE INDICATED, UNSWITCHED)
□	SWITCHBOARD, UNIT SUBSTATION, OR MOTOR CONTROL CENTER. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.
□	120/208 VOLT PANELBOARD
□	480/277 VOLT PANELBOARD
□	LOW VOLTAGE RELAY CONTROL PANEL
□	VARIABLE FREQUENCY DRIVE. FURNISHED BY OTHERS INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

□	FUSIBLE DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES
□	AUTOMATIC TRANSFER SWITCH. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.
□	MANUAL TRANSFER SWITCH. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.
□	MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR. CONNECT AS DIRECTED BY MOTOR SUPPLIER. SUBSCRIPT INDICATES EQUIPMENT SERVED. AD - AUTOMATIC DOOR MOD - MOTOR OPERATED DAMPER OHD - OVERHEAD DOOR SC - MOTORIZED SCREEN
□	NON-FUSIBLE DISCONNECT SWITCH, HEAVY DUTY TYPE, (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPLETE WITH FUSETRONS SIZED TO PROTECT MOTOR, EQUIPMENT OR CONDUCTORS (WHICHEVER IS APPLICABLE). SIZE, POLES, AND TYPE AS INDICATED. HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK. DISCONNECT SWITCH. REFER TO DRAWINGS, EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DETAILS.
□	FVNR COMBINATION MOTOR STARTER AND HEAVY DUTY DISCONNECT SWITCH. REFER TO DRAWINGS, EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DETAILS.
□	FVNR MAGNETIC MOTOR STARTER.
□	CIRCUIT BREAKER - INDIVIDUALLY MOUNTED IN NEMA 1 ENCLOSURE.
□	PUSH-BUTTON OPERATOR STATION. REFER TO PLANS FOR DETAILS.
□	POWER TRANSFORMER. SIZE AND TYPE NOTED ON PLANS. REFER TO SPECIFICATIONS FOR DETAILS.
□	ELECTRIC HEATING EQUIPMENT PROVIDED BY OTHERS. PROVIDE ALL POWER CONNECTIONS.
□	PHOTOCELL. REFER TO DRAWINGS FOR DETAILS.
□	TIME CLOCK. REFER TO DRAWINGS FOR DETAILS.
□	RACEWAY AND CONDUCTORS CONCEALED ABOVE CEILING OR IN WALL AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	CONDUIT BELOW FLOOR OR UNDERGROUND. DEPTH OF UNDERGROUND CONDUITS SHALL BE PER NEC.
□	EMERGENCY POWER SYSTEM CONDUIT AND WIRING. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	EXISTING CONDUIT OR BRANCH CIRCUIT TO REMAIN.
□	RACEWAY DOWN. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	RACEWAY UP. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	FLEXIBLE METAL CONDUIT OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (REFER TO SPECIFICATIONS) AND WIRING. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	CONCEALED BRANCH CIRCUIT HOMERUN. FOR NORMAL BRANCH CIRCUIT WIRING CONTRACTOR MAY COMBINE UP TO THREE CIRCUITS IN ONE RACEWAY. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
□	NOTE: (1) THE QUANTITY AND AMPACITY OF BRANCH CIRCUIT CONDUCTORS, UNLESS NOTED OTHERWISE, OR AS REQUIRED BY THE ELECTRICAL SPECIFICATIONS, SHALL FOLLOW THE STANDARD OF ONE #12 AWG CONDUCTOR PER CIRCUIT/PHASE SHOWN PLUS ONE #12 AWG NEUTRAL CONDUCTOR (WHERE A NEUTRAL CONDUCTOR IS REQUIRED) FOR A TYPICAL THREE CIRCUIT OR LESS HOMERUN. (2) WHEN SERVING FLUORESCENT AND/OR HID LIGHTING, COMBINED BRANCH CIRCUIT HOMERUN NEUTRAL CONDUCTOR SHALL BE CONSIDERED AS A CURRENT CARRYING CONDUCTOR AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED PER NEC. (3) BRANCH CIRCUITS SERVING COMPUTER RECEPTACLES MAY BE COMBINED PROVIDING EACH BRANCH CIRCUIT IS EITHER WIRED WITH A SEPARATE NEUTRAL OR THE SHARED NEUTRAL IS OVERSIZED. EACH NEUTRAL SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR AND ALL RESPECTIVE RACEWAY CONDUCTORS SHALL BE DE-RATED PER NEC.
□	CONDUIT SEAL
□	RACEWAY AND CONDUCTORS RUN EXPOSED ON CEILING OR WALLS AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

SPECIAL SYSTEMS

□	TELEPHONE SYSTEM OUTLET. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 3/4" C WITH NYLON PULL WIRE FROM SAME TO SPACE ABOVE ACCESSIBLE CEILING AS INDICATED ON FLOOR PLANS. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS.
□	DATA PROCESSING OUTLET. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 3/4" C WITH NYLON PULL WIRE FROM SAME TO SPACE ABOVE ACCESSIBLE CEILING SPACE OR AS INDICATED ON FLOOR PLANS. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS.

ELECTRICAL SITE PACKAGE
SUBMITTED UNDER PERMIT
#371.99.206 BY ELLERMAN & SCHICK

ONE LINE DIAGRAMS

□	POWER TRANSFORMER. REFER TO DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR DETAILS.
□	GROUND.
□	LIGHTNING ARRESTER.
□	CIRCUIT BREAKER.
□	FUSIBLE SWITCH.
□	REMOVABLE OR "DRAW-OUT" ELEMENT.
□	GENERATOR.
□	INDIVIDUALLY MOUNTED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. REFER TO DRAWING AND SPECIFICATIONS FOR DETAILS.
□	KIRK KEY INTERLOCK.
□	CURRENT TRANSFORMER.
□	POTENTIAL TRANSFORMER.
□	CABLE TERMINATION.
□	GROUND BUS.
□	NEUTRAL BUS.
□	METERS OR INSTRUMENTS
□	SUBSCRIPTS: A = AMMETER AS = AMMETER SWITCH AH = AMPERE HOUR METER D = DEMAND METER F = FREQUENCY METER PF = POWER FACTOR METER V = SYNCHROSCOPE VAR = VAR METER VC = VOLTAGE CONTROL SWITCH VS = VOLTMETER SWITCH W = WATT METER WH = WATT HOUR METER
□	UTILITY CO. (OR OWNER) WATT HOUR/DEMAND METER. COORDINATE TYPE AND INSTALLATION WITH UTILITY CO. REPRESENTATIVE.
□	NORMALLY OPEN CONTACTOR.
□	NORMALLY CLOSED CONTACTOR.
□	MOTOR OVERLOAD ELEMENTS.
□	PANELBOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS.
□	MGB PANELBOARD. REFER TO DRAWINGS, PANELBOARD SCHEDULES, AND SPECIFICATIONS FOR DETAILS.
□	FAULT CALCULATION POINT.
□	POINT OF CONNECTION TO ELECTRIFIED EQUIPMENT. PROVIDED BY OTHERS. VERIFY EXACT LOCATION WITH RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT	
□	TELEPHONE/DATA SYSTEM OUTLET. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH TWO-GANG PLASTER RING. PROVIDE (2) 3/4" WITH NYLON PULL WIRE FROM SAME TO SPACE ABOVE ACCESSIBLE CEILING OR AS INDICATED ON FLOOR PLANS OR OUTLET DETAIL. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS.
□	TELEPHONE SYSTEM OUTLET FOR PAY STATION. VERIFY LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 3/4" C WITH NYLON PULL WIRE FROM SAME TO SPACE ABOVE ACCESSIBLE CEILING OR AS INDICATED ON FLOOR PLANS. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS.
□	TELEPHONE SYSTEM OUTLET. MOUNT AT 54" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE 3/4" C WITH NYLON PULL WIRE FROM SAME TO SPACE ABOVE ACCESSIBLE CEILING OR AS INDICATED ON TYPICAL TELEPHONE/DATA OUTLET DETAIL. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS.
□	TELEVISION OUTLET. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. USE 4-11/16" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE OVER ALL UNUSED OUTLETS (SUBSCRIPT CCTV INDICATES CLOSED-CIRCUIT T.V. OUTLET)
□	CEILING MOUNTED (FLUSH) SPEAKER WITH MATCHING TRANSFORMER AND BACKBOX. LOCATE AS DIRECTED BY ARCHITECT.
□	WALL MOUNTED SPEAKER WITH MATCHING TRANSFORMER AND BACKBOX. MOUNT AS DIRECTED BY ARCHITECT.
□	SPEAKER VOLUME CONTROL. MOUNT AT 44" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
□	FLOOR MOUNTED MICROPHONE OUTLET. LOCATE AS DIRECTED BY ARCHITECT.
□	WALL MOUNTED MICROPHONE OUTLET. MOUNT AT 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE.
□	PUBLIC ADDRESS EQUIPMENT RACK.
□	TELEPHONE TERMINAL CABINET. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
□	TELEPHONE MOUNTING BOARD. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
□	FIRE ALARM SYSTEM ALARM HORN/STROBE. REFER TO SPECIFICATIONS FOR DETAILS. MOUNT AT 80" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. NUMBER INDICATES CANDELA RATING.
□	WALL MOUNTED FIRE ALARM STROBE SIGNAL. REFER TO SPECIFICATIONS FOR DETAILS. MOUNT AT 80" AFF TO CENTERLINE UNLESS NOTED OTHERWISE. NUMBER INDICATES CANDELA RATING.
□	ADDRESSABLE FIRE ALARM FIXED TEMPERATURE (190°) HEAT DETECTOR. CEILING MOUNTED. REFER TO SPECIFICATIONS FOR DETAILS.
□	ADDRESSABLE FIRE ALARM COMBINATION RATE-OF-RISE FIXED TEMPERATURE HEAT DETECTOR. CEILING MOUNTED. REFER TO SPECIFICATIONS FOR DETAILS.
□	ADDRESSABLE FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS NOTED OTHERWISE. CEILING MOUNTED, REFER TO SPECIFICATIONS FOR DETAILS.
□	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR, DUCT TYPE COMPLETE WITH PROBE. REFER TO SPECIFICATIONS FOR DETAILS. FURNISHED AND CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. INSTALLED AND CONTROL WIRING BY MECHANICAL CONTRACTOR.
□	JUNCTION BOX FOR SMOKE/FIRE DAMPER BY OTHERS. PROVIDE 120V POWER TO SAME AND PROVIDE PHOTOELECTRIC, DUCT TYPE, ADDRESSABLE SMOKE DETECTOR. CONNECT DUCT-TYPE SMOKE DETECTOR TO FIRE ALARM SYSTEM FOR MONITORING ONLY. VERIFY EXACT LOCATIONS OF SMOKE/FIRE DAMPER AND COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
□	SPRINKLER SYSTEM FLOW SWITCH FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. PROVIDE ZONE ADDRESSABLE (MONITOR) MODULE AS REQUIRED FOR CONNECTION TO FIRE ALARM SYSTEM. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
□	SPRINKLER SYSTEM TAMPER SWITCH FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. PROVIDE ZONE ADDRESSABLE (MONITOR) MODULE AS REQUIRED FOR CONNECTION TO FIRE ALARM SYSTEM. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
□	FIRE ALARM SYSTEM CONTROL PANEL. REFER TO SPECIFICATIONS FOR DETAILS.
□	MAGNETIC DOOR HOLDER FURNISHED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. PROVIDE ZONE ADDRESSABLE (CONTROL) MODULE AS REQUIRED TO CONNECT TO FIRE ALARM SYSTEM. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
□	REMOTE TEST / STATUS STATION FOR DUCT SMOKE DETECTOR.
□	ADDRESSABLE MONITOR MODULE
□	ADDRESSABLE CONTROL MODULE
□	ADDRESSABLE SUPERVISORY MODULE.
□	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY
□	REMOTE STATUS STATION FOR DUCT SMOKE DETECTOR AT FIRE DAMPER
□	CEILING MOUNTED FIRE ALARM HORN/STROBE. NUMBER INDICATES CANDELA RATING.
□	CEILING MOUNTED FIRE ALARM STROBE UNIT. NUMBER INDICATES CANDELA RATING.

NOTE: ALL CONTRACTORS SHALL COORDINATE LOCATION OF DUCTWORK, PIPING AND ELECTRICAL CONDUITS AS SHOWN WITHIN THE SPACE BETWEEN THE FUTURE CORRIDOR WALLS. ALL CONTRACTORS SHALL COORDINATE AND ADAPT INSTALLATION TO CONFORM TO THIS REQUIREMENT PRIOR TO INSTALLATION.

THESE DRAWINGS ARE DIAGRAMMATIC. THE ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE THE NECESSARY QUANTITY OF CONDUCTORS FOR SWITCHING AS SHOWN ON THE DRAWINGS IN ORDER TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL.

ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LAB-ORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

"RADIO AMPLIFICATION FOR EMERGENCY SERVICES MAY BE REQUIRED IN BUILDING B IF ADEQUATE RADIO SIGNAL STRENGTH IS NOT AVAILABLE. ADEQUATE SIGNAL STRENGTH SHALL BE DETERMINED AT OR BEFORE THE TIME OF COMPLETION OF ROUGH FRAMING OR ROUGH ELECTRICAL. CITY EMERGENCY SERVICES SHALL BE CONTACTED PRIOR TO THAT STAGE TO ASSIST IN TESTING THE STRUCTURE'S FOR SIGNAL STRENGTH. IF IT IS DETERMINED THAT SIGNAL STRENGTH AS LISTED IN NEC 810 AMENDED IS NOT ADEQUATE, THE OWNER SHALL PROVIDE A SYSTEM OF RADIO AMPLIFICATION TO MEET THESE RADIO FREQUENCY STRENGTH REQUIREMENTS. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL FINAL APPROVAL OF THE TESTING AND/OR INSPECTION OF THE SYSTEM.

ARIZONA REVISED STATUTES 32-1129.01.

NOTICE OF EXTENDED CERTIFICATION AND APPROVAL PERIOD PROVISION.
This contract allows the owner to certify and approve billings and estimates within 30 days after the billings and estimates are received from the contractor.

NOTICE OF EXTENDED PAYMENT PROVISION.
This contract allows the owner to make payments within 30 days after certification and approval of billings and estimates.

T M A D Engineers

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7250 N. 16th Street, Suite 200
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Job No. 201-031.00

DFD Comover/Redrick

OFFICE BUILDING B

SEC FRANK LLOYD BOULEVARD
AND SCOTTSDALE ROAD
SCOTTSDALE, AZ

NOTICE OF EXTENDED PAYMENT PROVISION.

THIS CONTRACT allows the owner to certify and approve billings and estimates within 30 days after the billings and estimates are received from the contractor.

THESE DRAWINGS ARE DIAGRAMMATIC. THE ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE THE NECESSARY QUANTITY OF CONDUCTORS FOR SWITCHING AS SHOWN ON THE DRAWINGS IN ORDER TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL.

ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LAB-ORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

"RADIO AMPLIFICATION FOR EMERGENCY SERVICES MAY BE REQUIRED IN BUILDING B IF ADEQUATE RADIO SIGNAL STRENGTH IS NOT AVAILABLE. ADEQUATE SIGNAL STRENGTH SHALL BE DETERMINED AT OR BEFORE THE TIME OF COMPLETION OF ROUGH FRAMING OR ROUGH ELECTRICAL. CITY EMERGENCY SERVICES SHALL BE CONTACTED PRIOR TO THAT STAGE TO ASSIST IN TESTING THE STRUCTURE'S FOR SIGNAL STRENGTH. IF IT IS DETERMINED THAT SIGNAL STRENGTH AS LISTED IN NEC 810 AMENDED IS NOT ADEQUATE, THE OWNER SHALL PROVIDE A SYSTEM OF RADIO AMPLIFICATION TO MEET THESE RADIO FREQUENCY STRENGTH REQUIREMENTS. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL FINAL APPROVAL OF THE TESTING AND/OR INSPECTION OF THE SYSTEM.

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NOTICE OF EXTENDED PAYMENT PROVISION.
This contract allows the owner to make payments within 30 days after certification and approval of billings and estimates.

ARIZONA REVISED STATUTES 32-1129.01.

NOTICE OF EXTENDED CERTIFICATION AND APPROVAL PERIOD PROVISION.
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