

POWER SYMBOLS

	CIRCUIT BREAKER
	GROUND CONNECTION
	HOME RUN TO PANEL (OKT. NO. AS SHOWN)
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DOUBLE DUPLEX HOSPITAL GRADE GFCI RECEPTACLE
	20 AMPERE, 120 VOLT SINGLE RECEPTACLE
	20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE GFCI RECEPTACLE
	20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF
	OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED
	MOTOR
	JUNCTION BOX
	POWER POLE CONNECTION TO MODULAR FURNITURE WHIP
	TRANSFORMER
	CIRCUIT BREAKER SIZED AS NOTED
	PANELBOARD NORMAL POWER
	PANELBOARD EMERGENCY POWER
	BUS DUCT AMPERE RATING AS NOTED
	FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB
	UNFUSED SAFETY SWITCH, RATING AS NOTED
	FUSED SAFETY SWITCH, RATING AS NOTED
	MAGNETIC MOTOR STARTER, RATING AS NOTED
	MANUAL TOGGLE OPERATED MOTOR STARTER
	ELECTRIC ACTUATED VALVE
	MOTOR CONTACTOR
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	SELECTOR SWITCH
	TEMPERATURE SWITCH
	PILOT LIGHT

LIGHTING SYMBOLS

	LIGHT FIXTURE
	LIGHT FIXTURE W/ EMERGENCY BATTERY BALLAST
	WALL MOUNTED LIGHT FIXTURE
	PENDANT LIGHT MOUNTED FIXTURE
	STRIP/WRAP LIGHT FIXTURE
	EXTERIOR WALL-PACK
	ROUND RECESSED CEILING MOUNTED FIXTURE
	SURFACE MOUNTED FIXTURE
	SQUARE DOWNLIGHT
	WALL MOUNTED LIGHTING FIXTURE
	TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)
	EMERGENCY LED EXIT SIGN
	COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
	EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
	REMOTE EMERGENCY LIGHTING LAMP HEAD
	LIGHT SWITCH
	DENOTES FIXTURE SWITCHED
	P = PILOT LIGHT (WHERE NOTED)
	3 = 3-WAY (WHERE NOTED)
	4 = 4-WAY (WHERE NOTED)
	ULTRASONIC/INFRARED OCCUPANCY SENSOR
	TIME CLOCK
	LIGHTING CONTACTOR
	PHOTOCELL

FIRE ALARM SYMBOLS

	PULL STATION
	PULL BOX
	FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
	STROBE UNIT XX= CANDELA
	NON-SYSTEM STROBE UNIT
	MINI HORN UNIT
	SMOKE DETECTOR
	FIXED TEMP HEAT DETECTOR (135F OR 200F)
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	MASTER BOX
	DIGITAL COMMUNICATOR
	DUCT SMOKE DETECTOR
	REMOTE TEST STATION
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
	MONITOR MODULE
	CONTROL MODULE
	NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL STROBE FOR H/C UNITS
	RED MASTER BOX LIGHT
	KNOX BOX, FBO
	HOOD EXT SYSTEM
	DOOR HOLDER
	SIGNAL POWER EXTENDER

GENERAL NOTES

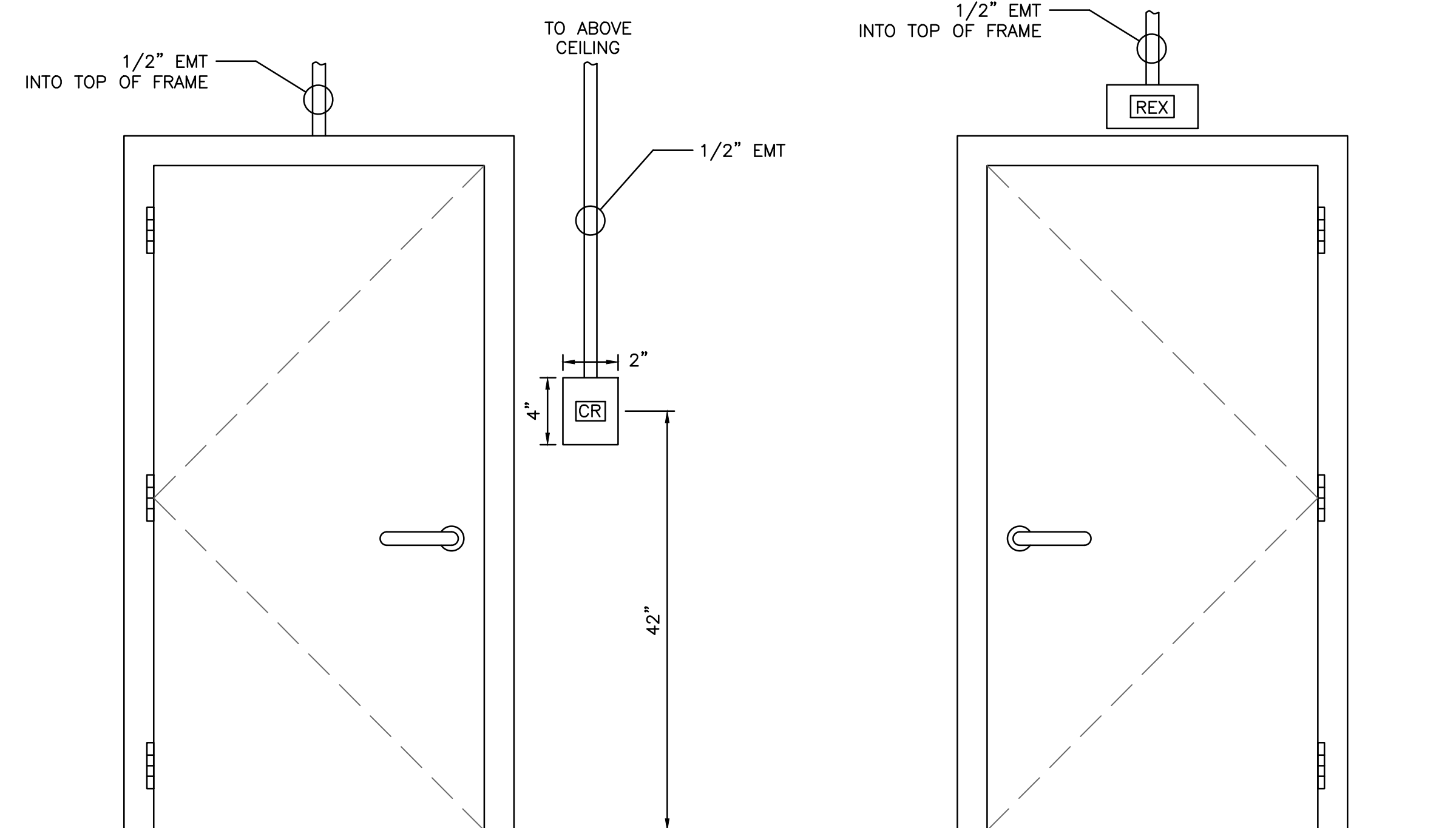
1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
3. UNLESS OTHERWISE NOTED, CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18 INCHES AFF AND LIGHTING TOGGLE SWITCHES 48 INCHES AFF.
4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
5. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
6. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
7. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES.
8. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
9. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.

ABBREVIATIONS

A	AMPERE	GF	GROUND FAULT	OH	OVERHEAD
AC	ALTERNATING CURRENT	GFI	GROUND FAULT CIRCUIT INTERRUPTER	OL	OVER LOAD
AFF	ABOVE FINISHED FLOOR	GND	GROUND	OQA	ON-OFF-AUTOMATIC
AFG	ABOVE FINISHED GRADE	H	HAND HOLE	OSY	OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
AIC	AMPERES INTERRUPTING CAPACITY	HOA	HAND-OFF-AUTOMATIC	P	POLE
AL	ALUMINUM	HP	HORSE POWER	PB	PUSH BUTTON
ASYM	ASYMMETRICAL	HPS	HIGH PRESSURE SODIUM	PF	POWER FACTOR
ATS	AUTOMATIC TRANSFER SWITCH	HV	HIGH VOLTAGE	PH	PHASE
AUX	AUXILIARY	HZ	HERTZ	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	IG	ISOLATED GROUND	PRI	PRIMARY
BKR	BREAKER	IMC	INTERMEDIATE METAL CONDUIT	PT	POTENTIAL TRANSFORMER
C	CONDUIT	INCAND	INCANDESCENT	PVC	POLYVINYL CHLORIDE
CAB	CABINET	JB	JUNCTION BOX	RGSC	RIGID GALVANIZED STEEL CONDUIT
CB	CIRCUIT BREAKER	KCMIL	THOUSAND CIRCULAR MILS	RVSS	REDUCED VOLTAGE SOLID STATE
CBT	CIRCUIT BREAKER	KV	KILOVOLT	RSC	RIGID STEEL CONDUIT
CKT	CIRCUIT	KVA	KILO VOLT-AMPERE	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
CT	CURRENT TRANSFORMER	KW	KILOWATT	S	SIGNAL
CU	COPPER	KWH	KILOWATT HOUR	SEC	SECONDARY
DC	DIRECT CURRENT	LPS	LOW PRESSURE SODIUM	SHLD	SHIELDED CABLE
DISC	DISCONNECT	LTG	LIGHTING	SW	SWITCH
EG	EQUIPMENT GROUND	LSW	LIGHT SWITCH	SWBD	SWITCHBOARD
EH	ELECTRICALLY HELD	LV	LOW VOLTAGE	SYM	SYMMETRICAL
EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER	T	TELEPHONE
EMT	ELECTRICAL METALLIC TUBING	MCC	MOTOR CONTROL CENTER	TR	TRANSFORMER
EO	ELECTRICALLY OPERATED	MCP	MOTOR CIRCUIT PROTECTION	TBD	TO BE DETERMINED
EPR	ETHYLENE PROPYLENE RUBBER	MH	METAL HALIDE	TD	TELEDIALER
EQUIP	EQUIPMENT	EMH	ELECTRICAL MANHOLE	TDR	TIME DELAY RELAY
EX	EXTERIOR	MLO	MAIN LUGS ONLY	TEL	TELEPHONE
FA	FIRE ALARM	MO	MECHANICALLY OPERATED	TM	TELEMETRY
FC	FOOT-CANDLE	MOD	MOTOR OPERATED DAMPER	UG	UNDERGROUND
FDR	FEEDER	MTS	MANUAL TRANSFER SWITCH	UT	UTILITY
FLUOR	FLUORESCENT	MV	MERCURY VAPOR	V	VOLT
FS	FLOW SWITCH (FA SYSTEM)	MVA	MEGAVOLT-AMPERE	VA	VOLT-AMPERE
FVNR	FULL VOLTAGE NON REVERSING	NC	NORMALLY CLOSED	VFD	VARIABLE FREQUENCY DRIVE
FVR	FULL VOLTAGE REVERSING	NO	NORMALLY OPENED	W	WATT
GEN	GENERATOR			WH	WATT HOUR

CARD READER SIDE OF DOOR

OTHER SIDE OF DOOR



1 CARD READER ELEVATION PLAN
SCALE: NOT TO SCALE

SYSTEMS SYMBOLS

	TELEPHONE SYSTEM WALL JACK
	COMBINATION VOICE/DATA SYSTEM OUTLET
	COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB
	CATV JACK
	SECURITY SYSTEM DOOR SWITCH
	ELECTRIC DOOR LOCK SET
	SECURITY SYSTEM CARD ACCESS PAD
	INTERCOM SYSTEM SPEAKER
	INTERCOM MASTER STATION
	CABLE TRAY
	PUSH BUTTON
	DOOR BELL
	CARD READER
	GLASS BREAK
	MOTION DETECTOR
	PANIC BUTTON
	SECURITY CAMERA
	REQUEST TO EXIT

FINAL BID SET
FEBRUARY 4, 2015



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NOT FOR CONSTRUCTION
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ELECTRICAL LEGEND, NOTES, &
SYMBOLS

Scale: As Noted

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