	LIGHTING			
SYMBOL	DESCRIPTION			
0 [^]	CEILING MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
^A O ₄	WALL MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
· A	2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
	DUAL BALLAST 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
A A	1'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
^	6"x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
	2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
· A	TYPICAL CEILING MOUNTED FLUORESCENT FIXTURE- NORMAL/EMERGENCY; SUBLETTER INDICATES FIXTURE TYPE			
	CONTINUOUS FLOURESCENT LIGHT FIXTURE; SUBLETTER INDICATES ALL FIXTURE TYPES IN A ROW			
₹ 0^	WALL WASHER LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			
	LIGHT ON EMERGENCY CIRCUIT; SUBLETTER INDICATES FIXTURE TYPE			
<u>. V V</u>	POWER LIGHT TRACK WITH NUMBER OF FIXTURES AS INDICATED ON PLANS; SUBLETTER INDICATES FIXTURE TYPE			
YYY	SINGLE OR DUAL HEAD, WALL MOUNTED, REMOTE EMERGENCY LIGHT; SUBLETTER INDICATES FIXTURE TYPE			
XXX XXH	DOUBLE FACED CEILING OR WALL—MOUNTED, EXIT SIGN WITH EMERGENCY POWER BACK UP AND CHEVRONS AS INDICATED ON PLANS; SUBLETTER INDICATES FIXTURE TYPE			
× × × ×	INDICATES FIXTURE TIPE			
♣ A EM	CEILING OR WALL—MOUNTED, SELF—CONTAINED EMERGENCY LIGHT UNIT; FIXTURE SHALL MONITOR LIGHTING CIRCUIT IN AREA; SUBLETTER INDICATES FIXTURE TYPE			
000 [^]				
——	POLE MOUNTED SITE LIGHTING FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. DRAWING SYMBOL INDICATES HEAD COUNT			
EM	CEILING OR WALL—MOUNTED, SELF—CONTAINED EMERGENCY LIGHT UNIT; FIXTURE SHALL MONITOR LIGHTING CIRCUIT IN AREA; SUBLETTER INDICATES			

	SWITCHES			
S	SINGLE-POLE SWITCH			
S ₂	DOUBLE-POLE SWITCH			
S 3	3-WAY SWITCH			
S ₄	4-WAY SWITCH			
Sp	SINGLE-POLE SWITCH WITH PILOT LIGHT			
SBE	BOILER EMERGENCY SWITCH			
S _D	SINGLE-POLE DIMMER SWITCH			
S _{D3}	3-WAY DIMMER SWITCH			
S _T	MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION			
S _K	SINGLE-POLE KEYED SWITCH			
S _{K3}	KEYED, 3-WAY SWITCH			
S _{K4}	KEYED, 4-WAY SWITCH			
S _{MC}	MOMENTARY CONTACT SWITCH			
SPROJ	MOTORIZED PROJECTION SCREEN RAISE/LOWER SWITCH			
So	OCCUPANCY SENSOR SWITCH			
Sox	CEILING MOUNTED OCCUPANCY SENSOR; SUBLETTER INDICATES TYPE; P - PASSIVE/INFARED, U - ULTRASONIC, D - DUAL TECHNOLOGY			
C	CONTACTOR, COMPLETE WITH NEMA ENCLOSURE			
тс	TIME CLOCK			
PC	PHOTOCELL			
LM	LIGHTING CIRCUIT MONITOR CONTROL MODULE			
LT	LIGHTING CIRCUIT TRANSFER CONTROL MODULE			
•	PUSHBUTTON SWITCH			
HD ^{©,3}	EMERGENCY SHUT-OFF SWITCH. SUBLETTER "E" INDICATES ELECTRICAL. SUBLETTER "G" INDICATES GAS			
KE,KG CH	MASTER EMERGENCY SHUT-OFF/KEYED RESET SWITCH. SUBLETTER "KE" INDICATES ELECTRICAL. SUBLETTER "KG" INDICATES GAS			

A REDUCED SCALE PRINT — SCALE ACCORDINGLY

0 1' 2' 3' 6' 0 1

Lijelijelijelijelijelijeli SCALE

SCALE 1/2"=1' SCALE

WIRING			
***************************************	BRANCH CIRCUIT POWER WIRING		
BRANCH CIRCUIT SWITCHED WIRING			
BRANCH CIRCUIT AC OR DC CONTROL WIRING			
NL	NE NIGHTLIGHT CIRCUIT		
— ст —	CABLETRAY		
	CONDUIT UP		
G	CONDUIT DOWN		
	HOME RUN. 3/4" CONDUIT, 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED. NOTE: HOME RUN SHALL BE FROM FIRST ELECTRICAL DEVICE BACKBOX IN CIRCUIT TO ELECTRICAL PANEL		
—— ЕМ ——	EM — EMERGENCY FEEDER		
— т—	TELECOMMUNICATION SYSTEM RACEWAY		
CATV CABLE TELEVISION SYSTEM RACEWAY			
	INCOMING PRIMARY ELECTRIC SERVICE		
—— SE ——	INCOMING SECONDARY ELECTRIC SERVICE		

	POWER			
-0	DUPLEX RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.			
= € _{a,b,c}	DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.			
#	DOUBLE DUPLEX RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.			
→ a,b,c	DOUBLE DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.			
-0	SINGLE RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.			
- О _{о,b,c}	SINGLE RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.			
⊙ R,F,S	FLOOR MOUNTED DUPLEX RECEPTACLE: SUBLETTER "R" INDICATES RECESSED BACKBOX. SUBLETTER "F" INDICATES FLUSH BACKBOX. SUBLETTER "S" INDICATED SURFACE BACKBOX (MONUMENT)			
-	DUPLEX RECEPTACLE-ONE OUTLET SWITCHED			
⊕ _{⊺∨}	DUPLEX RECEPTACLE FOR TELEVISION. MOUNTING HEIGHT AS NOTED ON PLANS			
(E)	ELECTRICAL FLOOR MONUMENT WITH LFMC WHIP CONNECTION			
-€(SPECIAL—PURPOSE OUTLET. AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. CONTRACTOR TO VERIFY CONNECTION/NEMA CONFIGURATION REQUIREMENTS WITH EQUIPMENT BEING FURNISHED.			
⊕ a,b,c	DUPLEX RECEPTACLE, EMERGENCY POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.			
⇒ a,b,c	DOUBLE DUPLEX RECEPTACLE, EMERG. POWER; SUBLETTER "g" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.			
<u> </u>	SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED			
Ø	TELEPHONE/POWER POLE			
Ø	POWER WALL BOX TO SERVE SYSTEM FURNITURE PROVIDE 3/4" LFMC WHIF FROM BOX TO FURNITURE CONNECTION AND TERMINATE ON FURNITURE LUGS. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER.			
o ×	DATA WALL BOX TO SERVE SYSTEM FURNITURE PROVIDE LFMC WHIP FROM BOX TO FURNITURE CONNECTION. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER. 'X' DENOTES THE QUANTITY OF DATA CABLES.			
Without コン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ELECTRICAL PANEL 480/277 VOLT			
	ELECTRICAL PANEL 120/208 VOLT			
	SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT			
Т	ELECTRICAL POWER TRANSFORMER			
×	MAGNETIC STARTER			
ď₩	FUSED DISCONNECT SWITCH WITH AMP FRAME OVER AMP TRIP			
囡	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH			
Ø	ELECTRIC MOTOR			
VFD	VARIABLE FREQUENCY DRIVE			
J.	JUNCTION BOX			
	ELECTRIFIED BUS DUCT WITH FUSIBLE, PLUG-IN, BRANCH CIRCUIT DEVICE			
R	RELAY			
EDO ELECTRIC DOOR OPENER				
EDO ELECTRIC DOOR OPENER WITH SMOKE DOOR MAGNETIC HOLD OPEN				
НО	ELECTRIC DOOR OPENER ACTUATOR PUSH PLATE			
	ELECTRONIC FAUCET/FLUSH VALVE CONTROL TRANSFORMER			
3 b				

SECURITY		
ES ELECTRIC DOOR STRIKE/ELECTRIC DOOR BOLT		
DOOR/WINDOW CONTACT		
VIDEO CAMERA, WITH MOUNTING HARDWARE		
VIDEO MONITOR OUTLET		
VR VIDEO RECORDER OUTLET		
CR CARD READER		
∞ ∞ +	CEILING OR WALL-MOUNTED MOTION DETECTOR	
ML	ML MAGNETIC DOOR LOCK	
LOCAL DOOR BELL WITH TRANSFORMER		
LOCAL DOOR BELL PUSHBUTTON		

FIRE ALARM		
S FIRE ALARM SMOKE DETECTOR		
Ss	FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE	
S _{BT, BR}	FIRE ALARM BEAM DETECTOR, SUBLETTER INDICATES TRANSMITTER OR RECEIVER	
SE	SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS	
DS	DUCT SMOKE FIRE ALARM DETECTOR	
H	HEAT DETECTOR, 135° FIXED RATE OF RISE. HEAT RATING INDICATED BY SUBLETTER IF OTHER THAN 135°	
G	FIRE ALARM VISUAL INDICATING UNIT	
	FIRE ALARM HORN/VISUAL INDICATING UNIT	
■ V _S	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT	
(Ē)	FIRE ALARM CEILING-MOUNTED SPEAKER	
	FIRE ALARM MINI HORN/VISUAL INDICATING UNIT	
F	MANUAL FIRE ALARM PULL STATION	
仓	MASTER FIRE ALARM PULL BOX	
M	FIRE ALARM MAGNETIC DOOR HOLD DEVICE	
м ^{с,то}	FIRE ALARM MAGNETIC DOOR HOLD OPEN; SUBLETTER "C" INDICATES MAGNETIC HOLDER/CLOSER. SUBLETTER "TO" INDICATES TIMEOUT RELEASE	
ĪŜ	REMOTE DUCT SMOKE DETECTOR TEST SWITCH/INDICATOR	
AiM	ADDRESSABLE INTERFACE MODULE	
(G)	SPRINKLER FIRE ALARM FLOW SWITCH	
<u></u>	SPRINKLER FIRE ALARM SUPERVISORY SWITCH	
®	SPRINKLER FIRE ALARM PRESSURE SWITCH	
₩FP	FIREFIGHTERS TELEPHONE	
V AOR	AREA OF REFUGE TELEPHONE	
▼ EM	EMERGENCY TELEPHONE	
FACP	FIRE ALARM CONTROL PANEL	
RAP	REMOTE ANNUNCIATOR PANEL	
	ODARINO ANNUNCIATOR DANE	
GAP	GRAPHIC ANNUNCIATOR PANEL	

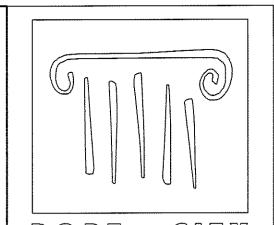
SYMBOL DESCRIPTION				
♥ R,F,S	FLOOR MOUNTED TEL/DATA OUTLET: SUBLETTER "R" INDICATES RECESSED BACKBOX, SUBLETTER "F" INDICATES FLUSH BACKBOX. SUBLETTER "S" INDICATED SURFACE BACKBOX (MONUMENT)			
©/	COMMUNICATIONS FLOOR MONUMENT WITH LFMC WHIP CONNECTION			
Þ	COMBINATION DATA/TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE			
►w	TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT, STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE, SUBLETTER "W" INDICATES WALL—MOUNTED;			
▶ _{P,HP}	HANDICAP PAY TELEPHONE OUTLET WITH BACKBOX AND CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "P" INDICATES HANDICAPPED PAYPHONE			
D	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAGLINE			
TELEVISION CABLE OUTLET; MOUNT AT 18" AFF UNLESS OTHERWISE NOT				
S CEILING-MOUNTED, SOUND SYSTEM SPEAKER WALL-MOUNTED, SOUND SYSTEM SPEAKER				
				VC SOUND SYSTEM VOLUME CONTROLLER
SOUND SYSTEM MICROPHONE JACK; SUBLETTER "F" INDICATED SUBLETTER "W" INDICATES WALL-MOUNTED.				
\sim	PA/SOUND SYSTEM HANDSET			
PA/SOUND SYSTEM CLOCK AND SPEAKER MOUNTED IN COMMON ENCLOSURE WALL CLOCK WITH HANGER TYPE OUTLET PROGRAM BELL				
		EÖ	EMERGENCY CALL-FOR-AID AUDIO INDICATING UNIT	
		E EMERGENCY CALL-FOR-AID SWITCH		
EMERGENCY CALL—FOR—AID PUSHBUTTON EMERGENCY CALL—FOR—AID VISUAL INDICATING UNIT EMERGENCY CALL—FOR—AID VISUAL/AUDIO INDICATING UNIT				
			AMP AMPLIFIER	
			Пм	INTERCOM STATION; SUBLETTER "M" INDICATES MASTER

SPECIAL SYSTEMS

ONE-LINE				
—	POTHEAD			
	STRESSCONE			
\$	CURRENT TRANSFORMER			
POTENTIAL TRANSFORMER				
	FUSE			
- O				
	FUSE CUT OUT			
	FUSE & SWITCH			
	SWITCH			
	CIRCUIT BREAKER			
← →>>	DRAWOUT CIRCUIT BREAKER			
-<←□→>	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER			
←^—	BUSPLUG CIRCUIT BREAKER			
← \	BUSPLUG FUSE & SWITCH			
1	·			
	GROUND			
<u> </u>	THERMAL OVERLOAD			
©	RELAY/COIL			
	N/O CONTACT			
	N.C. CONTACT			
	PROTECTIVE RELAY			
A	AMMETER			
AS	AMMETER SWITCH			
<u> </u>	VOLTMETER			
VS	VOLTMETER SWITCH			
WHM ->	WATTHOUR METER			
₩	WATTMETER			
WHD→	WATTHOUR DEMAND METER			
×××*	TRANSFORMER (WITH GROUNDING ON SECONDARY SIDE)			
***	SHIELDED TRANSFORMER (WITH GROUNDING ON SECONDARY SIDE)			
why are	AUTO TRANSFORMER			
	LIGHTNING ARRESTOR			
ø	GENERATOR			
Δ	DELTA			
	WYE			
Y				
® #	KEY INTERLOCK AUTOMATIC TRANSFER SWITCH (A.T.S.)			
	BYPASS / ISOLATION AUTOMATIC TRANSFER SWITCH			
×	MAIN LUG ONLY PANELBOARD			
J	MAIN CIRCUIT BREAKER PANELBOARD			
**	ISOLATED POWER PANELBOARD			
) XXXAF XXXAT	CIRCUIT BREAKER WITH AMP FRAME OVER AMP TRIP			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FUSED DISCONNECT SWITCH, WITH SWITCH SIZE OVER FUSE SIZE			
XX XX	SHORT CIRCUIT DATA POINT / FAULT CURRENT VALUE			

LEGEND NOTE
THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

SYMBOL	DESCRIPTION		
A	AMPERE		
AFF	ABOVE FINISHED FLOOR		
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE		
AHU	AIR HANDLING UNIT		
CATY	CONDUIT		
CATV	CABLE TELEVISION		
C/B	CIRCUIT BREAKER		
CIR	CIRCUIT		
CUH	CABINET UNIT HEATER		
СТ	CABLE TRAY		
ER	EXISTING TO REMAIN		
EF	EXHAUST FAN		
ELTR	EXISTING LIGHTING TO REMAIN (WITHIN SPECIFIED AREA)		
EM	EMERGENCY		
EMT	ELECTRIC METALLIC TUBING		
EPTR	EXISTING POWER TO REMAIN (WITHIN SPECIFIED AREA)		
EWC	ELECTRIC WATER COOLER		
EWH	ELECTRIC WATER HEATER		
F	FUSED		
FA	FIRE ALARM		
FMC	FLEXIBLE METALLIC TUBING		
GFI	GROUND FAULT INTERRUPTER		
IG	ISOLATED GROUND		
MAU	MAKE-UP AIR UNIT		
MD	MOTORIZED DAMPER		
NF	NON-FUSED		
NE	NEW LOCATION OF EXISTING RELOCATED		
NL	NIGHT LIGHT		
NR	NEW TO REPLACE EXISTING		
P	POLE		
PE	PRIMARY ELECTRIC SERVICE		
PVC	POLYVINYL CHLORIDE CONDUIT		
RE	REMOVE EXISTING		
REF	ROOF EXHAUST FAN		
RL	RELOCATE EXISTING		
RMC	RIGID METALLIC CONDUIT		
	RIGID METALLIC CONDUIT		
RR	REMOVE AND REPLACE ON NEW SURFACE		
RTU	ROOFTOP UNIT		
SD	SMOKE DAMPER		
SE	SECONDARY ELECTRIC SERVICE		
S&P	SPACE AND PROVISION		
Т	TELEPHONE SERVICE		
TCP	TEMPERATURE CONTROL PANEL		
TV	TELEVISION		
TX	TRANSFORMER		
w	WRE		
WG	WIRE GUARD		
WP	WEATHERPROOF		
	UNIVERSAL		



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BECKER

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CONSULTANTS
CIVIL ENGINEERING & LANDSCAPE ARCHITECTURE

ALLIED/COOK CONSTRUCTION

Favreau ====

Titan Mechanical, Inc.
Design Build Engineering - Mechanical Contracting

UNIVERSITY OF NEW ENGLAND

COLLEGE OF PHARMACY

716 STEVENS AVENUE, PORTLAND, ME

#	DATE	DESCRIPTION
		BID SET
Date Issued		02/08/08
Project Number		06506

SHEET NAME

ELECTRICAL LEGEND

AMM

Shecked Bu

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