SYMBOLS & ABBREVIATIONS

LIGHTING

EXISTING	NEW	
		FLUORESCENT FIXTURE, DRAWN TO SCALE ON PLANS–LETTER IN FIXTURE INDICATES SWITCH LEG CONTROL
		FLUORESCENT STRIP FIXTURE, DRAWN TO SCALE
		CEILING MOUNTED DOWNLIGHT FIXTURE
		PENDANT MOUNTED FIXTURE
		WALL MOUNTED FIXTURE
		WALL MOUNTED FIXTURE
		RECESSED WALL MOUNTED FIXTURE
		NIGHT LIGHT
		CEILING MOUNTED WALL WASHER
		RECESSED ACCENT LIGHTING
		CEILING MOUNTED ACCENT LIGHTING
		MONOPOINT LIGHTING FIXTURE
		CANOPY MOUNTED LIGHTING FIXTURE
		TRACK LIGHT
		MULTI–LAMP ACCENT LIGHT
		PLUG–IN TASK LIGHT
		FIBER OPTIC REMOTE SOURCE
		TABLE LAMP
		UNDERCOUNTER TASK LIGHT
		FIXTURE SUPPLIED FROM EMERGENCY CIRCUIT
		EXIT SIGN – DIRECTIONAL ARROWS AS INDICATED, SHADED SIDES ILLUMINATED
		EMERGENCY BATTERY PACK
		LIGHTING STANDARD – FIXTURE(S), POLE & BASE
		LIGHTING STANDARD – FIXTURE(S), POLE & BASE
		SITE LIGHTING BOLLARD
		EXTERIOR ACCENT LIGHT
		INGROUND LIGHT
		ONE WAY SHIELDED LIGHT FIXTURE
		TWO WAY SHIELDED LIGHT FIXTURE
		THREE WAY SHIELDED LIGHT FIXTURE
		FOUR WAY SHIELDED LIGHT FIXTURE
		GARAGE LIGHTING
XXX OR XXXX		FIXTURE IDENTIFICATION – SEE FIXTURE SCHEDULE
$	$	SWITCH – SINGLE POLE SUBSCRIPTS a,b, etc., DENOTES CIRCUIT CONTROLLED
$2	$2	3 WAY LIGHT SWITCH
$4	$4	4 WAY LIGHT SWITCH
$K	$K	SWITCH – KEY OPERATED
$P	$P	SWITCH – WITH PILOT LIGHT
		DIMMER
$LV	$LV	MOMENTARY CONTACT LOW VOLTAGE SWITCH
		RELAY – NEC CLASS II
		LOW VOLTAGE TRANSFORMER
		OCCUPANCY SENSOR LIGHT SWITCH
$O	$O	SWITCH – OCCUPANCY SENSOR
		SWITCH – PHOTO CELL
		PHOTO SENSOR LIGHT CONTROL
$PC	$PC	PHOTOCELL LIGHT SWITCH
		CONTROL STATION
		DIMMING SYSTEM CONTROLS

EQUIPMENT

		PANEL – 208 VOLT SYSTEM
		PANEL – 480 VOLT SYSTEM
E	E	EQUIPMENT CONNECTION, E = EMERGENCY POWER
		MOTOR CONNECTION SINGLE PHASE
		MOTOR CONNECTION 3 PHASE
		POWER BUSWAY
		TRANSFORMER
HWT	HWT	HOT WATER TANK

ELECTRIC HEAT

		BASEBOARD HEATER CONNECTION (KW INDICATED)
		CABINET HEATER CONNECTION
		UNIT HEATER CONNECTION

CIRCUITS

EXISTING	NEW	
		RACEWAY CONCEALED IN CEILING OR WALL. HASH MARKS INDICATE NUMBER OF WIRES. #12 AWG WIRE UNLESS OTHERWISE NOTED. THREE WIRES IF NO HASH MARK SHOWN. LONG HASH MARK DENOTES NEUTRAL. INDICATES GROUND WIRE. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
		EXISTING RACEWAY (IF HASH MARKS ARE SHOWN, PULL NEW CONDUCTORS)
		RACEWAY BELOW SLAB OR UNDERGROUND
		RACEWAY UP
		RACEWAY DOWN
		RACEWAY STUB–OUT WITH BUSHING
		HOME RUN TO PANEL OR LOCATION NOTED
		CIRCUIT CONTINUATION
		JUNCTION BOX – POWER
		JUNCTION BOX – LIGHTING
		JUNCTION BOX – COMMUNICATIONS
		JUNCTION BOX – AUDIO/VIDEO
PB	PB	PULL BOX
LV	LV	LOW VOLTAGE WIRING (NEC CLASS II)
T	T	TELEPHONE SYSTEM RACEWAY
C	C	COMPUTER SYSTEM RACEWAY

RECEPTACLES

		SINGLE RECEPTACLE 120V
		DUPLEX RECEPTACLE 120V
		DUPLEX RECEPTACLE 120V, MOUNTED 3" ABOVE COUNTER BACKSPLASH
		DOUBLE DUPLEX RECEPTACLE 120V
		TWIST LOCK RECEPTACLE 120V
		DUPLEX RECEPTACLE 120V, EMERGENCY CIRCUIT
		DOUBLE DUPLEX RECEPTACLE 120V, EMERGENCY CIRCUIT
		CLOCK RECEPTACLE 120V
		SPLIT WIRED RECEPTACLE, 120V, TOP SWITCHED
		COMBINATION RECEPTACLE 120/208V, 120/240V
		RECEPTACLE 208V OR 240V, SINGLE PHASE
		RECEPTACLE 208V, THREE PHASE (TWIST LOCK)
		RECEPTACLE 208V OR 240V, THREE PHASE
		RECEPTACLE 480V, SINGLE PHASE
		RECEPTACLE 480V, THREE PHASE
		COMBINATION RECEPTACLE 480V, SINGLE PHASE
		RECEPTACLE 208V, SINGLE PHASE (TWIST LOCK)
		RECEPTACLE 480V, SINGLE PHASE (TWIST LOCK)
		RECEPTACLE 480V, THREE PHASE (TWIST LOCK)
		CEILING CORD DROP, 120V, SINGLE PHASE
		CEILING CORD DROP, 120V, SINGLE PHASE, EMERGENCY CIRCUIT
		FLUSH FLOOR OUTLET (DEVICES AS INDICATED)
		FLOOR OUTLET – POKE THROUGH (DEVICES AS INDICATED)
		POWER POLE
		MULTI–OUTLET ASSEMBLY
TVB	TVB	COMBINATION OUTLET (DEVICES AS INDICATED)
I	I	DUPLEX RECEPTACLE – ISOLATED GROUND TYPE
S	S	DUPLEX RECEPTACLE – SAFETY TYPE
G	G	DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER TYPE
D	D	DUPLEX RECEPTACLE – DEDICATED CIRCUIT TYPE
GS	GS	DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER/SAFETY TYPE
AC	AC	DUPLEX RECEPTACLE – MOUNTED 3" ABOVE COUNTER BACKSPLASH
		DUPLEX RECEPTACLE – SURGE PROTECTOR TYPE

CONTROL

		FUSED SWITCH (FUSE RATING INDICATED)
		DISCONNECT SWITCH
		MOTOR STARTER – MAGNETIC
		MANUAL STARTER
		COMBINATION MOTOR STARTER DISCONNECT SWITCH
		ENCLOSED CIRCUIT BREAKER
		THERMOSTAT
TC	TC	TIME CLOCK
		CONTACTOR
		RELAY – CONTROL TYPE
PC	PC	PHOTOCELL CONTROL
		PUSH BUTTON CONTROL STATION
		AUTO DOOR PUSHPLATE
$M	$M	MOTOR RATED TOGGLE SWITCH
VFD	VFD	VARIABLE FREQUENCY DRIVE

ACCESS CONTROL

EXISTING	NEW	
DS	DS	MAGNETIC DOOR SWITCH
		MOTION DETECTOR
KP	KP	ENTRY/EXIT KEYPAD
		MOTION SENSOR
PS	PS	POWER SUPPLY
		LOCAL ALARM
		CCTV CAMERA
F	F	CCTV CAMERA – FIXED POSITION
PTZ	PTZ	PTZ CCTV CAMERA
SCP	SCP	SECURITY CONTROL PANEL
ES	ES	ELECTRIC STRIKE
CR	CR	CARD READER
RED	RED	REQUEST TO EXIT DETECTOR
EL	EL	ELECTRIC LOCK
EX	EX	ELECTRIC LATCH RETRACTION
ELR	ELR	ELECTRIC LATCH RETRACTION
P	P	PANIC ALARM STATION – WALL MOUNTED
LP	LP	PANIC ALARM STATION – PEDESTAL MOUNTED

DOOR BUZZER SYSTEM

		PUSH BUTTON
T	T	TRANSFORMER
B	B	BUZZER HORN
B	B	BUZZER AND VISUAL INDICATOR

DURESS ALARM

		DURESS BUTTON
P	P	PIEZO ELECTRIC ALARM
DAP	DAP	DURESS ALARM PANEL
C	C	MOTION SENSOR, CEILING MOUNTED
L	L	LIGHT ALARM
KP	KP	KEY PAD

FIRE ALARM SYSTEM

F	F	MANUAL STATION
		SMOKE DETECTOR (D INDICATES INSTALLATION IN DUCT)
		HEAT DETECTOR (D INDICATES INSTALLATION IN DUCT)
F	F	HEAT DETECTOR FIXED TEMP
R	R	HEAT DETECTOR RATE OF RISE
V	V	SPRINKLER VALVE POSITION MONITOR CONNECTION
FS	FS	SPRINKLER FLOW SWITCH CONNECTION
PS	PS	SPRINKLER PRESSURE SWITCH CONNECTION
TS	TS	SPRINKLER TAMPER SWITCH
MP	MP	MONITOR POINT
		BEAM DETECTOR TRANSMITTER
		BEAM DETECTOR RECEIVER
PIV	PIV	POST INDICATOR VALVE
F	F	FIRE ALARM SPEAKER – FLUSH CEILING MOUNTED
F	F	FIRE ALARM SPEAKER – WALL MOUNTED
F	F	FIRE ALARM INDICATOR LIGHT
F	F	FIRE ALARM CHIME
F	F	FIRE ALARM HORN
		FIRE ALARM STROBE
L	L	VISUAL ALARM LIGHT – WALL MOUNTED
F	F	FIRE ALARM SPEAKER & STROBE
F	F	FIRE ALARM HORN & STROBE
I	I	REMOTE INDICATION LIGHT
FACP	FACP	FIRE ALARM CONTROL PANEL
FARA	FARA	FIRE ALARM REMOTE ANNUNCIATOR (FARA)
M	M	SMOKE DOOR RELEASE MECHANISM – (WALL MOUNTED MAGNETIC TYPE)
d	d	SMOKE DOOR RELEASE MECHANISM – (COMBINATION DOOR CLOSER/HOLDER TYPE)
FAGA	FAGA	FIRE ALARM GRAPHIC ANNUNCIATOR
D	D	SMOKE DAMPER CONNECTION
R	R	ROLLING DOOR RELEASE MECHANISM
FJP	FJP	FIREFIGHTER'S TELEPHONE JACK
FANC	FANC	FIRE ALARM NETWORK SUBPANEL
FATS	FATS	FIRE ALARM TERMINAL CABINET
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITOR MODULE
FAT	FAT	FIRE ALARM TRANSMITTER

CLOCK SYSTEM

EXISTING	NEW	
		CLOCK – 12 HOUR DIAL
24	24	CLOCK – 24 HOUR DIAL
		ELAPSED TIME CLOCK
ETC	ETC	ELAPSED TIME CONTROLLER

INTERCOM SYSTEMS

M	M	MASTER STATION – (W=WALL MOUNTED)
S	S	SLAVE STATION
I	I	INTERCOM STATION – FLUSH CEILING MOUNTED

INFANT SECURITY

NPC	NPC	NETWORK CONTROLLER PC
NWS	NWS	NETWORK WORKSTATION PC
LAR	LAR	LOCAL AREA RECEIVER
EXC	EXC	EXCITER
EXCR	EXCR	EXCITER RANGE EXTENDER
CPS	CPS	CENTRAL POWER SUPPLY
IOM	IOM	INPUT – OUTPUT MODULE
EDS	EDS	ELEVATOR DOOR SWITCH
M	M	MONITOR

NURSE CALL AND PATIENT MONITOR SYSTEM

		SINGLE BED STATION
		DOUBLE BED STATION
		TOILET EMERGENCY STATION
		NURSE ASSIST BUTTON
		DOME LIGHT – CEILING MOUNTED
		DOME LIGHT – WALL MOUNTED
A	A	ANNUNCIATOR – WALL MOUNT
A	A	ANNUNCIATOR – DESK MOUNT
D	D	DUTY STATION
S	S	STAFF STATION
CB	CB	CODE BLUE STATION
CBA	CBA	CODE BLUE ANNUNCIATOR
NA	NA	NURSE ASSIST ANNUNCIATOR
P	P	PATIENT MONITORING OUTLET
N	N	NURSE LOCATOR STATION
B	B	BED COMMUNICATION OUTLET
Z	Z	ZONE DOME LIGHT
T	T	DOME LIGHT WITH TONE

MISCELLANEOUS

MGAP	MGAP	MEDICAL GAS ALARM PANEL
GRAP	GRAP	GENERATOR REMOTE ALARM PANEL
EKG	EKG	ELECTROCARDIOGRAM OUTLET

MASTER ANTENNA TV & CCTV

TV	TV	TV OUTLET
CONT TV	CONT TV	TV CONTROLS, +48" AFF
VCR	VCR	VCR OUTLET
		CLOSED CIRCUIT TV CAMERA
VS	VS	VIDEO SWITCHER
CCTV TV	CCTV TV	CLOSED CIRCUIT TV MONITOR
DVR	DVR	DIGITAL VIDEO RECORDER

PUBLIC ADDRESS SYSTEM

Z	Z	SPEAKER – FLUSH CEILING MOUNTED. NUMBER = ZONE
		SPEAKER – WALL MOUNTED AT +84" AFF.
VC	VC	VOLUME CONTROLLER WALL MOUNTED AT +54" AFF. NUMBER = ZONE
M	M	SPEAKER – MUSIC ONLY
MIC	MIC	MICROPHONE

COMMUNICATIONS - MISC.

EXISTING	NEW	
A	A	COMBINATION OUTLET – SEE COMMUNICATION SCHEDULE
		TELECOMMUNICATIONS OUTLET – CEILING MOUNTED
		TELEPHONE TERMINAL BOARD (TTB)
		CABLE TRAY
C	C	COMMUNICATION RACEWAY
TMGB	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BAR
TGB	TGB	TELECOMMUNICATIONS GROUNDING BAR
		GROUND BAR
		DICTATION OUTLET
C	C	COMPUTER OUTLET
		COMBINATION OUTLET
		FIREFIGHTER TELEPHONE OUTLET
		FIREFIGHTER TELEPHONE FLOOR OUTLET

OUTSIDE PLANT

		SPLICE WORK LOCATION
		2 WAY SPLICE
		3 WAY SPLICE
		4 WAY SPLICE
		STRAIGHT SPLICE
		STRAIGHT SPLICE
		GROUND SPLICE

RADIATING CABLE

		COUPLER – TYPE N
50	50	50 OHM TERMINATING LOAD
		TERMINATOR

VOICE/DATA OUTLETS

		VOICE/DATA OUTLET
AC	AC	ACH VOICE/DATA OUTLET
W	W	WALL MOUNTED TELEPHONE OUTLET
BA	BA	BUILDING AUTO PHONE OUTLET
B	B	BLANK VOICE/DATA OUTLET
CLG	CLG	CEILING VOICE/DATA OUTLET
D	D	PHONE DIALER OUTLET
E	E	EMERGENCY PHONE OUTLET
FAP	FAP	FIRE ALARM PHONE OUTLET
PP	PP	PAY PHONE OUTLET
SP	SP	SECURITY PHONE OUTLET
SEC	SEC	SECURITY PHONE OUTLET

WIRELESS NETWORK

WAP	WAP	WIRELESS ACCESS POINT
WAN	WAN	WIRELESS ACCESS NODE

ELECTRICAL RISER

EXISTING	NEW	
		FUSED SWITCH
		CIRCUIT BREAKER
		DRAWOUT CIRCUIT BREAKER
GF	GF	CIRCUIT BREAKER – GROUND FAULT PROTECTION
		CABLE TO BUS CONNECTION
		FUSE OR CURRENT LIMITER
		GROUND CONNECTION
XXX	XXX	IDENTIFICATION SYMBOL FOR FEEDER SIZES
		TRANSFORMER
M	M	WATT–HOUR METER
A	A	AMMETER
V	V	VOLTMETER
		TRANSFER SWITCH
G	G	ENGINE–GENERATOR
XXX	XXX	AVAILABLE SHORT CIRCUIT CURRENT

WORK DEFINITION

X	FLAG NOTE
X	REVISION SYMBOL
	EXISTING WALLS
XXXX	REMOVE EXISTING ELECTRICAL EQUIPMENT
XX	IDENTIFICATION SYMBOL FOR EQUIPMENT
2 / E5.02	ELECTRICAL DETAIL SYMBOL

GENERAL NOTES

1. COMPLY WITH NATIONAL ELECTRICAL CODE 2005 EDITION AND WAC 296–46B.
2. THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
4. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT–OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AN SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

ABBREVIATIONS

ABV	ABOVE	MM	MULTI–MODE
ACH	ABOVE COUNTER HEIGHT	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	MW	MICROWAVE
AG	ABOVE GRADE	N	NEUTRAL
A, AMP	AMPERE	NIC	NOT IN CONTRACT
A/V	AUDIO/VISUAL	OPOI	OWNER PROVIDED OWNER INSTALLED
ATS	AUTOMATIC TRANSFER SWITCH	PB	PULLBOX
AWG	AMERICAN WIRE GAGE	PNL	PANEL
CATV	COMMUNITY ACCESS TELEVISION	POS	POINT OF SALE
CB	CIRCUIT BREAKER	PR	PAIR
CCTV	CLOSET CIRCUIT TELEVISION	R, RO	RACEWAY, RACEWAY ONLY
CKT	CIRCUIT	RECEPT	RECEPTACLE
CLG	CEILING	REF	REFRIGERATOR
CM	CEILING MOUNTED	SLV	SLEEVE
COMM	COMMUNICATIONS	SM	SINGLE MODE
C, CO	CONDUIT, CONDUIT ONLY	SPECS	SPECIFICATIONS
CU	COPPER	SW	SWITCH
D	DATA	SWBD	SWITCHBOARD
DED	DEDICATED	TELECOM	TELECOMMUNICATIONS
DN	DOWN	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
DW	DISHWASHER	TGMB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
EWC	ELECTRIC WATER COOLER	TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
FA	FIRE ALARM	TV	TELEVISION
FB	FLOOR BOX	TYP	TYPICAL
FBOIC	FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR	UF	UNDER FLOOR
FI	FIBER OPTICAL	UG	UNDER GROUND
FO	FILM ILLUMINATOR	UON	UNLESS OTHERWISE NOTED
FOC	FACE OF COLUMN	UTP	UNSHIELDED TWISTED PAIR
G, GND	GROUND	V	VOLT OR VOICE–COMM
GD	GARBAGE DISPOSAL	W	WIRE, WATT OR WALL–COMM
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WAP	WIRELESS ACCESS POINT
HH	HAND HOLE	WP	WEATHERPROOF
HP	HORSEPOWER	XFMR	TRANSFORMER
IH	INSTA–HOT WATER DISPENSER	ø	PHASE
J–BOX	JUNCTION BOX	VEL	VERIFY EXACT LOCATION
MCC	MOTOR CONTROL CENTER		
MDF	MAIN DISTRIBUTION FACILITY		
MH	MAINTAINENCE HOLE		

OUTLET MOUNTING HEIGHTS

1. SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHT OF DEVICES. IF DEVICE IS NOT SOWN ON THE ELEVATION DRAWINGS, MOUNT DEVICE AS NOTED BELLOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18 INCHES (460mm) VERTICALLY MOUNTED
LIGHT SWITCHES	48 INCHES (1200mm) VERTICALLY MOUNTED
CLOCK OUTLET	80 INCHES (2030mm)
PANELBOARDS	72 INCHES (1830mm) TO TOP OF PANELBOARD
TELEPHONE OUTLET – DESK	18 INCHES (460mm) VERTICALLY MOUNTED
TELEPHONE OUTLET – WALL	54 INCHES (1370mm) VERTICALLY MOUNTED
COMPUTER OUTLET – DESK	18 INCHES (460mm) VERTICALLY MOUNTED
FIRE ALARM PULL STATION	48 INCHES (1200mm)
FIRE ALARM AUDIBLE NOTIFICATION DEVICES	TOP EDGE NOT LESS THAN 90 INCHES (2300mm) AFF AND NOT LESS THAN 6 INCHES (150mm) BELOW CEILING. 6 INCHES (150mm) BELOW CEILING SHALL TAKE PRECEDENCE WHERE CEILING HEIGHT DOES NOT ALLOW BOTH DIMENSIONS
FIRE ALARM VISUAL AND COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICES	BOTTOM EDGE SHALL BE AT 80 INCHES (2030mm) AFF OR 6 INCHES (150mm) BELOW CEILING HEIGHT, WHICHEVER IS LOWER
FIRE ALARM CONTROL PANEL	72 INCHES (1830mm)

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MultiCare

EMERGENCY DEPARTMENT & CANCER CENTER EXPANSION

TACOMA, WASHINGTON

0	100% CD SET 9/26/08
1	CCD #4 12/17/08

Date	09-26-2008
Scale	NONE
Drawn By	JL
Job No.	4034

SYMBOLS AND ABBREVIATIONS

E0 / 01

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