MOUNTING HEIGHTS

- MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS.
- 2. FOR CEILING HEIGHTS BELOW 8'-6" REFER TO DRAWINGS FOR CLOCKS, SPEAKERS, EXIT LIGHTS & EGRESS LIGHTS FOR APPROPRIATE MOUNTING HEIGHT.

ABBREVIATIONS LIST



WALL

+<u>\</u>+<u>€</u>

€┿

Α.	AMPERES	FAAP	FIRE ALARM ANNUNCIATOR PANEL
AC	ARMORED CABLE / ALTERNATING CURRENT	FACP	FIRE ALARM CONTROL PANEL
AFF	ABOVE FINISHED FLOOR	MFACP	MASTER FIRE ALARM CONTROL PANEL
AFG	ABOVE FINISHED GRADE		FIRE ALARM PULL STATION
AIC		<u></u>	FA STROBE WITH HORN/SPEAKER WALL/CEILING
AVVG			
AL			
APPR	APPROXIMATELY	\rightarrow	HEAT DETECTOR
BCG	BARE COPPER GROUND		SMOKE DETECTOR CEILING/DUCT
BRKR	BREAKER	HO	DOOR HOLDER
С	CONDUIT		
CCTV	CLOSED CIRCUIT TELEVISION	SECU	RITY SYSTEMS LEGEND
СКТ	CIRCUIT	AUTO	AUTO OPERATOR
CU	COPPER		CARD READER
DC	DIRECT CURRENT		
DISC	DISCONNECT		
Е	EXISTING		
FMT			
FPO			
EO		ES	
			PUSH PLATE
		R	RELAY
		RTE	REQUEST TO EXIT
GFI		AP	SECURITY ACCESS PANEL
G/GRD	GROUND		SECURITY CAMERA
HMI	HUMAN MACHINE INTERFACE	-	
ID	INSIDE DIAMETER		IUNICATION LEGEND
IMC	INTERMEDIATE METAL CONDUIT		DATA JACK I WALL/ABOVE COUNTER
INSUL	INSULATED OR INSULATION		
ISOL	ISOLATION OF ISOLATED		
JB	JUNCTION BOX		
KCMIL	THOUSAND CIRCULAR MILS	F/C	
LP	LIGHTING PANEL	F/C	COMBO PHONE/DATA JACK FLOOR/CEILING
LV	LOW VOLTAGE		PHONE JACK FLOOR/CEILING
mA	MILLIAMPERES	- <u>TV</u>	CABLE TV OUTLET
ΜΔΥ		ANNC	NURSE CALL ANNUNCIATOR PANEL
		NCCP	NURSE CALL CONTROL PANEL
		- H	NURSE STAFF ASSIST STATION
MCC		- HQ	NURSE CALL LIGHT
MDP	MAIN DISTRIBUTION PANEL		PATIENT BED STATION
MFR	MANUFACTURER		CODE BLUE CALL STATION
MIN	MINIMUM	- +()	CLOCK
MON	MONITOR	- <u>(s)/+s</u>	SPEAKER CEILING/WALL
NAC	NOTIFICATION APPLIANCE CIRCUIT	$-\frac{\bigcirc}{(1)}$	VOLUME CONTROL
NEC	NATIONAL ELECTRIC CODE		
NIC	NOT IN CONTRACT		
Ν	NEUTRAL		
NOM	NOMINAL		
NO	NORMALLY OPEN	-	
NC	NORMALLY CLOSED		
OC	OVER COUNTER	-	
OD	OUTSIDE DIAMETER	-	
Р	POLE	-	
PC	PHOTO CELL/PERSONAL COMPUTER	-	
PNI	PANEL	-	
P\/C		-	
		-	
		-	
REQU		-	
RGS		-	
RP		-	
SW	SWITCH	-	
TC	TIME CLOCK	-	
TYP	TYPICAL	-	
UNO	UNLESS NOTED OTHERWISE	-	
V	VOLTS	-	
VAC	VOLTS - ALTERNATING CURRENT		
VDC	VOLTS - DIRECT CURRENT		
VFD	VARIABLE FREQUENCY DRIVE	-	
W	WIRE	-	
WP	WEATHER PROOF	-	
XP	EXPLOSION PROOF	-	
	· · · · · · · · · · · · · · · · ·	-	

FIRE ALARM LEGEND

POWER LEGEND

	120/208V POWER PANELBOARD	1.	CC
	277/480V LIGHTING PANELBOARD		PR
	DISTRIBUTION PANEL	2.	WI
\square	DUPLEX RECEPTACLE		FIN
\square	DUPLEX RECEPTACLE ABOVE COUNTER		AN
\mathbf{P}	DUPLEX RECEPTACLE EMERGENCY POWER		AN
\square	DUPLEX GFI RECEPTACLE		CIF
F/C	DUPLEX RECEPTACLE FLOOR/CEILING	3.	MC
\blacksquare	QUADPLEX RECEPTACLE		ΤE
#	QUADPLEX RECEPTACLE ABOVE COUNTER		RE
	QUADPLEX RECEPTACLE EMERGENCY POWER		RE
	QUADPLEX GFI RECEPTACLE		
F/C	QUADPLEX RECEPTACLE FLOOR/CEILING	— G	EN
φ	SINGLE RECEPTACLE	1	ΔΙ
φ	208V RECEPTACLE, 3 PHASE	— 1.	SH
\bigtriangledown	LOCKING RECEPTACLE		ST
Ŵ	LOCKING RECEPTACLE EMERGENCY POWER	2.	CC
₩P	WEATHER PROOF RECEPTACLE		PR
₿	ISOLATED GROUND RECEPTACLE	3.	AL
J/J	JUNCTION BOX		
PB	PULL BOX		
\mathbb{M}	ELECTRICAL METER		(NE
S	SUBSTATION		FO
	FUSED DISCONNECT SWITCH		
	NON-FUSED DISCONNECT SWITCH	— 4.	
	COMBINATION STARTER W/ DISCONNECT		WC
X	MOTOR STARTER		TE
	EPO PUSH BUTTON		EX
\boxtimes	POWER POLE	5.	WI
O @	CONDUIT END UP/DOWN		
/3/16/ / /3	MOTOR SINGLE/THREE PHASE		NO
	BUS DUCT		PR
ζ	CONTINUATION SYMBOL	6.	FIE
	·		EX

LIGHTING LEGEND

\$ / \$\$	SWITCH SINGLE/DUAL LEVEL LIGHTING	
\$2	2 POLE SWITCH	
\$3	3-WAY SWITCH	
\$ 4	4-WAY SWITCH	
\$D	DIMMER SWITCH	
\$к	KEY SWITCH	
\$0	OCCUPANCY SENSOR SWITCH	
<u>()</u> /H0	OCCUPANCY SENSOR CEILING/WALL	
	LAY-IN LIGHT FIXTURE	
	LAY-IN NIGHT (EMERGENCY) LIGHT FIXTURE	
- \ -	INCANDESCENT LIGHT FIXTURE	
	FLUOR WALL MOUNTED LIGHT FIXTURE	
⊢ −−−−	FLUOR STRIP LIGHT FIXTURE	
⊢ I	FLUOR WALL MOUNTED STRIP LIGHT FIXTURE	
Ŷ	WALL MOUNTED SCONCE	
PRA	SUSPENDED TRACK	
	EMERGENCY LIGHT FIXTURE	
\odot	EXIT SIGN CEILING/WALL	
	XRAY VIEWBOX	

DEMOLITION GENERAL NOTES

	COORDINAT	ТЕ [00
	WIRING THA FINAL DESIC AND WIRE F AND WIRE N ASSOCIATE CIRCUIT IS	AT (GN REM IOT D F FO
5_	MCIT SHALL TELE/DATA REMOVE TE MCIT. A POF REUSED FO	. Be Ca Lei Rti(R N
γг		

ALL WORK, EC
SHALL COMPL
STANDARDS A

LL WIRING SHALL BE 2#12 & 1#12GND-3/4"C UNLESS OTED OTHERWISE. 120 VOLT CIRCUITS SHALL HAVE EDICATED NEUTRALS. CIRCUITS MAY BE GROUPED WITH MAXIMUM OF SIX (6) CURRENT CARRYING CONDUCTORS EUTRALS SHALL BE CONSIDERED CURRENT CARRYING). DR NEW 120 VOLT, 20 AMP CIRCUITS LONGER THAN 150 EET #10 AWG CONDUCTORS SHALL BE INSTALLED.

KISTING BRANCH CIRCUIT WIRING COMPLYING WITH ESIGN PARAMETERS MAY BE REWORKED FOR NEW ORK. EXISTING WIRING SHALL BE INSPECTED AND ESTED FOR DAMAGE, NEW WIRING SHALL BE USED TO KTEND EXISTING CIRCUITS TO NEW LOCATIONS.

IRING OF EXISTING BRANCH CIRCUITS REUSED SHALL BE ESTED FOR PROPER GROUND, PHASE AND NEUTRAL ONNECTIONS. PROJECT COORDINATOR SHALL BE OTIFIED OF ANY CIRCUITS THAT DO NOT TEST ROPERLY.

ELD VERIFY PANELBOARD SCHEDULE INFORMATION. KISTING CIRCUIT NUMBERS AND ASSOCIATED LOADS HAVE BEEN DETERMINED BY INFORMATION OBTAINED FROM PANELBOARD DIRECTORIES.

PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANELBOARD AS REQUIRED. UNLESS NOTED OTHERWISE, BREAKERS SHALL BE RATED 20 AMP, 1 POLE, 22KAIC. EXISTING REUSED CIRCUIT BREAKERS SHALL BE RATED 20 AMP WITH MINIMUM #12 AWG BRANCH CIRCUIT WIRING. VERIFY CIRCUIT BREAKER RATINGS AND TEST FOR PROPER OPERATION. PROJECT COORDINATOR SHALL BE NOTIFIED OF ANY CIRCUIT BREAKERS THAT DO NOT TEST PROPERLY.

PANELBOARD DIRECTORIES SHALL BE UPDATED AT COMPLETION OF PROJECT.

SEAL PENETRATIONS THROUGH WALLS AND FLOORS TO RESTORE ORIGINAL FIRE RATING. USE A UL LISTED FIRE SEALANT. PENETRATIONS SHALL BE INSPECTED BY AUTHORITY HAVING JURISDICTION AFTER INSTALLATION OF FIRE SEAL MATERIAL.

10. THIS DRAWING REPRESENTS TYPICALLY ENCOUNTERED ITEMS. NOT ALL ITEMS SHOWN MAY OCCUR WITHIN THE SCOPE OF THIS PROJECT. REFER TO COMPLETE SPECIFICATIONS AND DRAWING DOCUMENTATION SET.

REFERENCE SYMBOLS LEGEND

1 A-1 1 A-1 D 📢 A-1 🕨 B

 $\left(1\right)\left(1\right)\left(1\right)$

/1C

ABC 123

(X)

DEMOLITION SCHEDULE AND EXTENT WITH ORDINATOR PRIOR TO STARTING WORK.

COMPLIES WITH UMHHS STANDARDS AND I REQUIREMENTS MAY BE REUSED. CONDUIT MOVED MAY NOT BE REINSTALLED. CONDUIT T REUSED SHALL BE REMOVED BACK TO PANELBOARD OR TO J-BOX AT WHICH THE REMAIN ACTIVE.

E RESPONSIBLE FOR DISCONNECTION OF ABLES FROM WORK STATIONS AND OFFICES. EPHONE AND DATA CABLES AS DIRECTED BY ION OF THE TELE/DATA CABLES MAY BE NEW WORK STATIONS.

IERAL NOTES

QUIPMENT, WIRING DEVICES AND WIRING LY WITH UMHHS DESIGN GUIDELINES, AND SPECIFICATIONS.

OORDINATE NEW WORK SCHEDULE AND EXTENT WITH ROJECT COORDINATOR PRIOR TO STARTING WORK.

PLAN IDENTIFICATION W/ NORTH ARROW

SECTION LOCATION IDENTIFICATION

DETAIL LOCATION IDENTIFICATION AT ENLARGED SCALE

ELEVATION LOCATION IDENTIFICATION

KEYNOTE IDENTIFICATION DEMO / NEW / MISC

BULLETIN IDENTIFICATION WITH REVISION CLOUD

ROOM NAME & NUMBER



MICHIGAN MEDICINE UNIVERSITY OF MICHIGAN

2101 Commonwealth, Suite B Ann Arbor, Michigan 48105-5759 www.med.umich.edu/facilities/plan/

File Name/Archive No. 2/1/17 mcintyre, thomas t:\fpd_shared\planning-standards\cad\prototypes

TERMS & CONDITIONS FOR DOCUMENT USE

PROPERTY OF THE UNIVERSITY OF MICHIGAN SUBJECT TO RESTRICTIONS

These plans are the confidential property of the University of Michigan. These plans have been provided to you for the limited purpose of bidding and/or providing construction work at the University of Michigan. You acknowledge that these plans are the confidential property of the University of Michigan. You will keep the plans confidential and will not discuss with or provide these plans to any third party, other than those employees, subcontractors, or consultants who are essential to completing your bid and/or work. Unless your company is selected to perform a part of the work, you will destroy all copies of the plans within 90 days of the bid due date.

CD's Issued To:	
BFS:	HFES:
BFS Shop Drawing Subn	nission Req'd:
FA:	SUPP:
FA: Project Delivery Method:	SUPP:
FA: Project Delivery Method: UM Design Manager:	SUPP:
FA: Project Delivery Method: UM Design Manager: Designed:	SUPP: A. Martinez
FA: Project Delivery Method: UM Design Manager: Designed: Drawn:	SUPP: A. Martinez A. Martinez
FA: Project Delivery Method: UM Design Manager: Designed: Drawn: Coordination Checked:	SUPP: A. Martinez A. Martinez
FA: Project Delivery Method: UM Design Manager: Designed: Drawn: Coordination Checked: Checked:	SUPP: A. Martinez A. Martinez A. Martinez
FA: Project Delivery Method: UM Design Manager: Designed: Drawn: Coordination Checked: Checked: Approved:	SUPP: A. Martinez A. Martinez A. Martinez B. Harris
 FA: Project Delivery Method: UM Design Manager: Designed: Drawn: Coordination Checked: Checked: Approved: Location: 	SUPP: A. Martinez A. Martinez A. Martinez B. Harris
 FA: Project Delivery Method: UM Design Manager: Designed: Drawn: Coordination Checked: Checked: Approved: Location: Keyword: 	SUPP: A. Martinez A. Martinez A. Desmarais B. Harris Legend

Project STANDARD

Sheet Title ELECTRICAL LEGEND, GENERAL NOTES, **ELEVATIONS & ABBREVIATIONS**

Project Number

Sheet Number

