

LOAD SERVED	KVA / Phase		hase	СКТ	CKT NEUTRAL		CKT CKT		KVA / Phase			LOAD SERVED				
LOAD SERVED	A	В	С	BRKR	NO	Α	ВС	NO	BRKR	Α	В	С	LOAD SERVED			
EXISTING LOAD	1.00			1P-20	1	1	1	2	1P-20	1.00			EXISTING LOAI	D		
EXISTING LOAD		1.00		1P-20	3	174	\perp	4	1P-20		1.00	***************************************	EXISTING LOA	D		***************************************
EXISTING LOAD			1.00	1P-20	5		\perp	6	1P-20	<u></u>	·	1.00	EXISTING LOAI	D	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
EXISTING LOAD	1.00	Abres 48.	<u></u>	1P-20	7		\prod_{λ}	8	1P-30	2.00			EXISTING LOA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
EXISTING LOAD		1.00	—	1P-20	9			10	1P-30		2.00		EXISTING LOAI			
EXISTING LOAD			1.00	1P-20	11			12	1P-30			2.00	EXISTING LOAI			******************************
EXISTING LOAD	2.50		<u> </u>	2P-30	13			14	1P				SPACE			
		2.50		E, 00	15			16	2P-30		2.50		EXISTING LOAI		,,	
EXISTING LOAD			2.50	2P-30	17			18	21 -00	<u> </u>		2.50	LAG TING LOAD	<u></u>		
	2.50		2.30	25-30	19		$\prod_{n} \tilde{x}_n$	20	1P		ļ	·}	SPACE			***************************************
SPACE			}	1P	21			22	1P				~\$~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
SPACE		,						·	<u> </u>		ļ		SPACE		***************************************	
SPACE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1P	23			24	1P				SPACE	***************************************		
SPACE		<u></u>		1	25	. T		26	1P				SPACE	***************************************		
			<u> </u>	1P	27			28	1P		ļ		SPACE		***************************************	
SPACE			<u> </u>	1P	29	<u> </u>	1	30	1P				SPACE		.,	
SPACE				1P	31	<u> </u>		32	1P				SPACE	***************************************	***********************	***************************************
SPACE				1P	33	1^{-}	 	34	1P		ļ		SPACE			*******************************
SPACE				1P	35	14	+	36	1P			·	SPACE	~****************		
SPACE				1P	37	<u> </u>	+	38	1P				SPACE			
SPACE		·····		1P	39	<u> </u>	$++$ $^{\circ}$	40	1P				SPACE			
SPACE				1P	41	<u> </u>	$\bot \land$	42	1P				SPACE			
SUB TOTAL	7.00	4.50	4.50							3.00	5.50	5.50	SUB TOTAL			
		er 7 m.								10.00	10.00	10.00	TOTAL	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
C/B TEMP. 75 C. RATIN	G 120	208	V <u>3</u> PH	4 WIRE		· i	Ω ΔΓ) TYI	7 F	CON	NECTED	KVA	NEC DEM	D	EMAND K	VA
MOUNTING_SURFACE_				-						Α	В	С	FACTOR	Α	В	С
SOLATED GROUND BUS		YES	X	NO				HTING		0.00	0.00	0.00	125%	0.00	0.00	0.00
MAIN CIRCUIT BREAKER SERVICE ENTR. RATED	X	YES YES	X	NO NO	GEN REC	ERAL EPT	USE			10.00	10.00	10.00	<=10 KVA@100% >10KVA@50%	3.33 3.34	3.33 3.34	3.33 3.34
MINIMUM AIC (K AMPS) 10						ORS			LARGEST	0.00	0.00	0.00	125%	0.00	0.00	0.00
MCB RATING 150A						IPME			ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
BUS RATING 400A						ERH	***************************************			0.00	0.00	0.00	125%	0.00	0.00	0.00
NEUTRAL RATING 100%					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ACE H		0.00	0.00	0.00	100%	0.00	0.00	0.00
					SIGN		UKE	ECEP.		0.00	0.00	0.00	100%	0.00	0.00	0.00
NOTE: ALL MOTOR CIRCUIT BREA	KEB6 6HV	II DE LI	ACD DAT	En	13101		TALL	ζ\/ Λ Γ	PER PHASE	0.00	0.00	0.00	125%	0.00	0.00 6.67	0.00
NOTE. ALL MOTOR CIRCUIT BREF	MLINO OFF	LL DE M	nur rai	ED.		ı U	IAL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	AL DEMAND		å	4		6.67 56	56 56	6.67 56
						***************************************	***************************************		IL DEIVINING	/ AWIF LIX	LOTEIN	FIAGE		30	30	J0
	***************************************								PANEL / FE	EDER (T	OTAL KV	'A)				20.0
CP3-3									AL KVA) X 10 OLTS X 1.7		TAL AMP	S				

1010 0== :==	LOAD SERVED KVA / Phase Ch		СКТ	CKT	NO.	TRAL	CKT CKT	KVA / Phase								
LOAD SERVED	Α	В	C	BRKR	NO	ž.	BC	NO	CKT BRKR	Α	B	C	LO.	AD SE	RVED	
EXISITNG LOAD	1.60			1P-25	1	_	$\Box \wedge$		1P-25	1.60			EXISITNG LOAI	<u> </u>		
EXISITNG LOAD		1,00		1P-20	3			4	1P-25		1.60		EXISITNG LOAI	***************************************		
EXISITNG LOAD			1.60	1P-25	5		\Box	6	2P-30	<u> </u>		2.50	EXISITNG LOAI			
EXISITNG LOAD	1.60	<u></u>		1P-25	7		\coprod_{λ}	8		2.50			EXISITNG LOAI		***************************************	
EXISITNG LOAD		1.00	<u></u>	1P-15	9		\Box_{\wedge}	·····	1P-25		1.60		EXISITNG LOAI		************************	***************************************
EXISITNG LOAD	<u></u>		1.00	1P-20	11		\coprod_{\wedge}	12	1P-15			1.00	EXISITNG LOAD			***************************************
EXISITNG LOAD	2.00			1P-30	13		\Box_{\wedge}	14	1P-15	1.00		1.00	SPARE			***************************************
EXISITNG LOAD		1.60		1P-25	15			16	1P-25		1.60		SPARE			
EXISITNG LOAD			2.00	1P-30	17		\prod_{α}	18	1P-20	***************************************	•		SPARE	•••••••••••••••••••••••••••••••••••••••		
SPARE	<u> </u>			1P-20	19	+_	\Box_{\wedge}	20	1P-20				\$			***************************************
SPACE	<u></u>			1P-20	21	+ 1	\prod_{λ}	22	1P-20				SPARE		***************************************	***************************************
SPACE				1P							<u></u>		SPACE			
SPACE	<u> </u>			·	23	$\pm \lambda T$		24	1P				SPACE	•••••		
SPACE				1P	25	+	$\prod_{i=1}^{n}$	26	1P	<u></u>			SPACE	***************************************		
SPACE				1P	27			28	1P		ļ	<u></u>	SPACE			······
SPACE				1P	29			30	1P				SPACE		······································	
······································				1P	31	1	TT_\	32	1P	<u></u>	ļ		SPACE	***************************************	***************************************	
SPACE				1P	33	₽ /\		34	1P		ļ	<u> </u>	SPACE		***************************************	
SPACE				1P	35	1		36	1P			<u></u>	SPACE			
SPACE	ļ			1P	37	! ∕\	$+\uparrow \uparrow$	38	1P				SPACE	·····		
					39	! ^┼	 	40	1P				SPACE		***************************************	
			·····		41	1	\Box	42	1P		<u></u>	<u></u>	SPACE	~~~~~	***************************************	
SUB TOTAL	5.20	3.60	4.60	100	sedimento	and the second		, discount of the second		5.10	4.80	3.50	SUB TOTAL	•••••	***************************************	
And the second s				1967			%C()			10.30	8.40	8.10	TOTAL			
C/B TEMP. 75 C. RATING	120	208	V <u>3</u> PH	_ <u>4_</u> WIRE	LOAD TYPE				CONNECTED KVA A B C		NEC DEM	·····	EMAND K	·		
MOUNTING SURFACE		lveo l		Tuo.	054	GENERAL LIGHTING					В	С	FACTOR	Α	В	С
ISOLATED GROUND BUS MAIN CIRCUIT BREAKER		YES YES	X	NO NO						0.00	0.00	0.00	125%	0.00	0.00	0.00
SERVICE ENTR. RATED		YES		NO		GENERAL USE RECEPT				10.30	8.40	8.10	<=10 KVA@100% >10KVA@50%	3.33 3.49	3.33	3.33
MINIMUM AIC (K AMPS) 10		, LO		INO	MOTORS AND				LARGEST	0.00	0.00	0.00	125%	0.00	2.54 0.00	2.39 0.00
MCB RATING 150A						JIPME			ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
BUS RATING_225A					WATER HEATERS				0.00	0.00	0.00	125%	0.00	0.00	0.00	
NEUTRAL RATING 100%					FIX ELEC. SPACE HEAT				0.00	0.00	0.00	100%	0.00	0.00	0.00	
					DEC	CATI	ED RI	ECEP1		0.00	0.00	0.00	100%	0.00	0.00	0.00
						SIGN					0.00	0.00	125%	0.00	0.00	0.00
NOTE: ALL MOTOR CIRCUIT BREAK	ERS SHA	ALL BE H	ACR RAT	ED.		TC	TAL	·····	ER PHASE		8.40	8.10		6.82	5.87	5.72
						······································	••••	TOT	AL DEMANE	AMPER	ES PER	PHASE		57	49	48
									DANEL /CF		OTAL 12	<u> </u>	<u> </u>			10.11
			***************************************	***************************************	-			***************************************	PANEL / FE				***************************************		<u></u>	18.40
CD4 2									L KVA) X 10		TAL AMP	S	-			
CP4-3								V	OLTS X 1.7	32						5

1 ELECTRICAL PANEL SCHEDULES

SCALE: NTS

FULLY SPRINKLERED Project Title CONSULTANT ARCHITECT/ENGINEER OF RECORD STAMP Project Number ACG 17-289 Office of ELECTRICAL PANEL SCHEDULES 676-18-201 CONSTRUCTION Whole Health Clinic Construction and Facilities 13100 watertown plank road suite 200 Elm Grove, WI 53122 Raleigh, NC Building Number DOCUMENTS Alteration B407 Indianapolis, IN JOHN K
MASON
E-43870
RALEIGH APOGEE Pittsburgh, PA Management Tomah, WI Consulting Group Virginia Beach, VA EP604 Engineers | Architects Atlanta, GA Checked U.S. Department of Veterans Affairs Nagel Architects Project Number: 17058 www.acg-pa.com 5/2/2018 Fort Collins, CO MAH ΑT

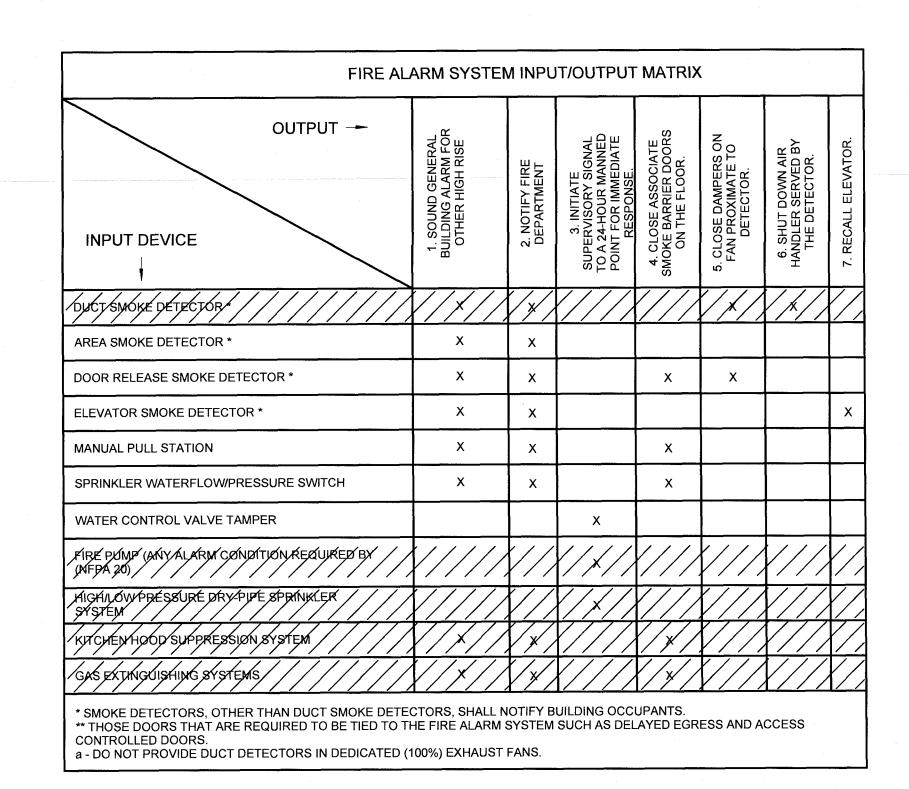
VA FORM 08-6231

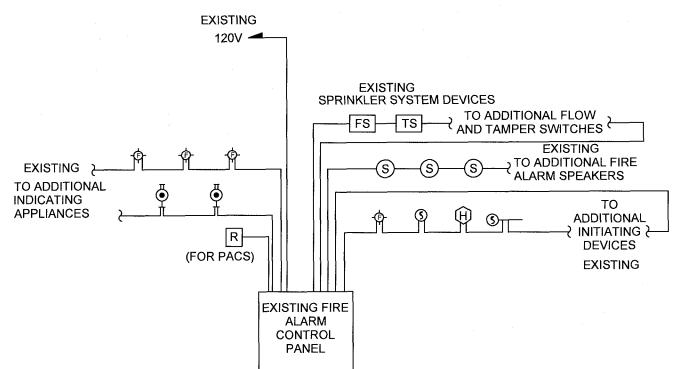
FIRE ALARM GENERAL NOTES

- FIRE ALARM SYSTEM AND COMPONENTS SHALL MEET THE FOLLOWING CODES: a. NFPA 13- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM. b. NFPA 14- STANDARD FOR THE INSTALLATION OF STANDPIPE SYSTEM. c. NFPA 20- STANDARD FOR THE INSTALLATION OF FIRE PUMP.
- d. NFPA 70 NATIONAL ELECTRIC CODES. e. NFPA 72 NATIONAL FIRE ALARM CODE. f. NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING.
- g. NFPA 101 LIFE SAFETY CODE. h. VA STANDARDS.
- i. ANSI S3.41 AUDIBLE EMERGENCY EVACUATION j. NFPA 88A STANDARD FOR PARKING STRUCTURE FIRE ALARM SYSTEM SHALL COMPLY WITH FACTORY MUTUAL RESEARCH
- CORPORATION (FM). ALL FIRE ALARM CABLING SHALL BE IN CONDUIT. CONDUIT SHALL BE FACTORY PAINTED RED.
- THE CONTACTOR IS RESPONSIBLE FOR TESTING THE EXISTING FIRE ALARM SYSTEM IN THE AREA OF WORK AND ADJACENT AREA FULLY, PRIOR TO THE START OF WORK. AND DEFICIENCIES OR NON-OPERATIONAL COMPONENETS OF THE FIRE ALARM SYSTEM SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEERAT THAT TIME. UPON COMPLETION OF THE WORK, THE AFFECTED AREA OF THE WORK AND ADJACENT AREA SHALL BE FULLY TEST AGAIN AT 100%, ANY PORTION OF THE FIRE ALARM SYSTEM WHICH IS NON-FUNCTIONAL OR NON-COMPLIANT WITHIN THE AREA OF WORK OR ADJACENT SPACES AT THAT TIME, SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER/PROJECT.
- THE EXISTING FIRE ALARM SYSTEMVENDOR/CONTRACTOR (SILENT KNIGHT) SHALL TERMINATE, TEST AND PROGRAM ALL NEW FIRE ALARM DEVICES. COORDINATE WITH COR.
- . CONNECT ALL SPRINKLER DEVICES TO THE FIRE ALARM SYSTEM. COORDINATE LOCATION WITH THE SPRINKLER CONTRACTOR. CONNECT ALL ELECTROMAGNETIC DOOR HOLD OPEN DEVICES TO THE FIRE
- ALARM SYSTEM. COORDINATE WITH THE DOOR HARDWARE CONTRACTOR. PROVIDE RELAY CONTROL MODULES FOR PACS. COORDINATE WITH PACS
- CONTRACTOR & COR.

SYMBOL	HEIGHT	DESCRIPTION
F	48"	FIRE ALARM PULL STATION
- -	90"	FIRE ALARM SPEAKER/STROBE (CLG MTD) XX - CANDELA
\Phi	90"	CENTRAL ALARM SPEAKER/STROBE (CLG MTD)
Φ		FIRE ALARM DOOR OPEN HOLDER
(3)		FIRE ALARM SMOKE DETECTOR
® _{FA}		FIRE ALARM CEILING MOUNTED SPEAKER
@		FIRE ALARM DUCT SMOKE DETECTOR
③		FIRE ALARM HEAT DETECTOR
FACP		FIRE ALARM CONTROL PANEL
NAC		FIRE ALARM NAC PANEL
FAAP		FIRE ALARM ANNUNCIATOR PANEL
8		FLOW SWITCH
$\bigotimes_{\mathbb{X}}$		TAMPER SWITCH
PIV		POST INDICATOR VALVE
연		REMOTE LIGHT/TEST SWITCH FOR DUCT DETECTORS
F	90"	FIRE ALARM BELL
R		CONTROL RELAY

ANY HEIGHTS INDICATED IN PLANS SHALL SUPERCEDE THOSE LISTED HERE.





1. ALL FIRE ALARM WIRING SHALL BE IN EMT CONDUIT FACTORY PAINTED RED.

- 2. ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
- 3. PROVIDE NEW DEVICES TO MATCH EXISTING (AS REQUIRED). SEE FA-102. PROVIDE ZONE ADAPTER MODULES TO CONNECT NON ADDRESSABLE DEVICES SUCH AS FLOW AND TAMPER SWITCHES, DOOR HOLD-OPEN
- DEVICES, AND CONTROL SIGNALS.
- PANEL AS REQUIRED FOR ADDITIONAL DEVICES. 6. PROVIDE ADDITIONAL POWER AMPLIFIERS FOR SPEAKERS AS REQUIRED.

5. PROVIDE POWER SUPPLY OR NAC (NOTIFICATION APPLIANCE CIRCUIT)

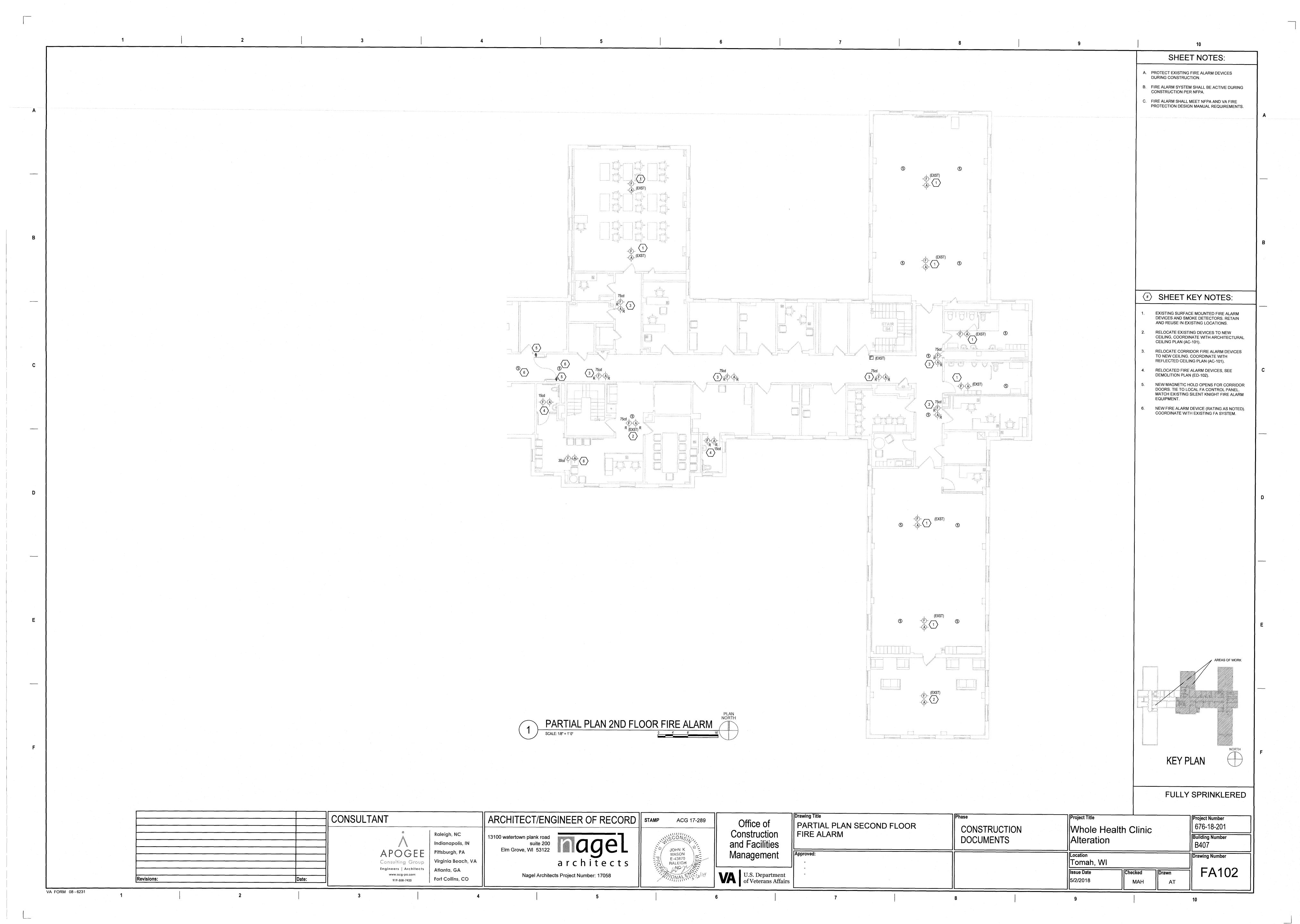
7. EXISTING SILENT KNIGHT FIRE ALARM PANEL TO REMAIN.

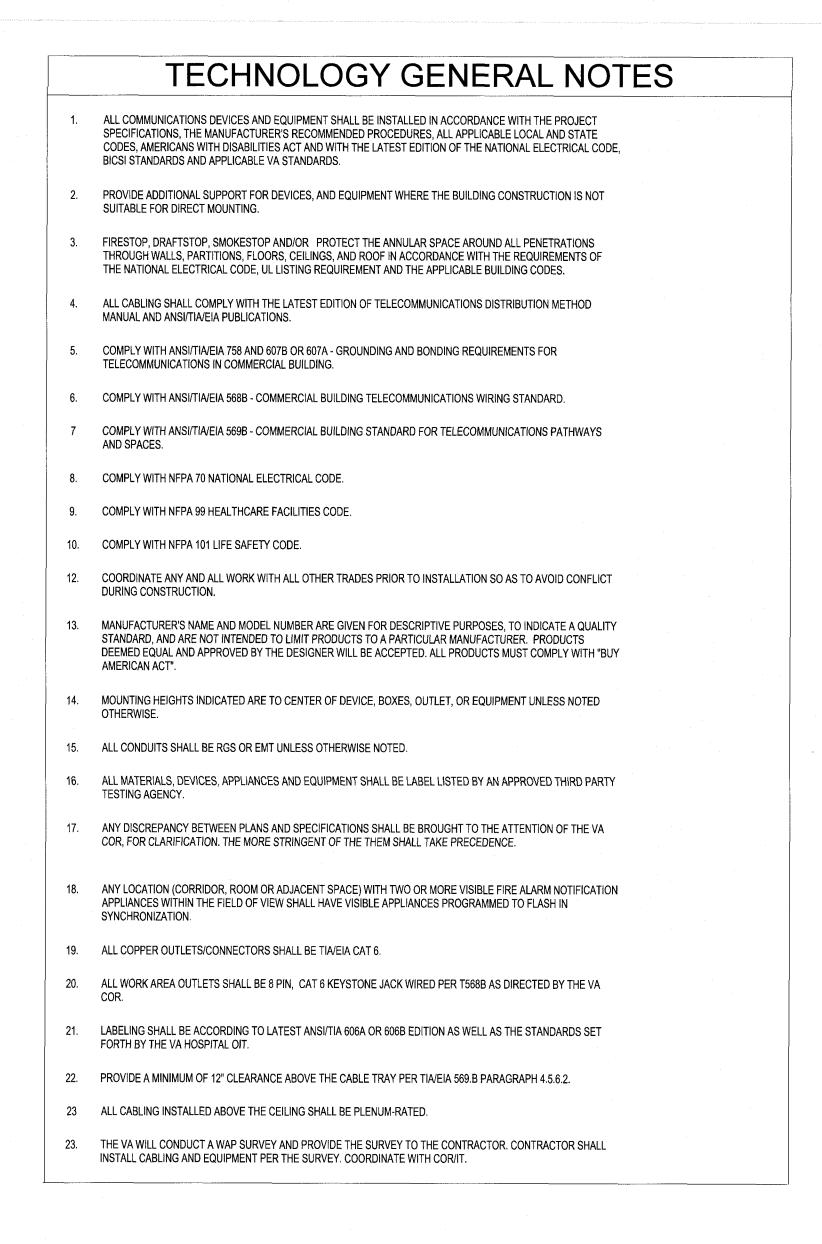
8. VERIFY LOCATION OF SPRINKLER SYSTEM DEVICES WITH THE SPRINKLER

CONTRACTOR. 9. PROVIDE ADDITIONAL POWER SUPPLIES AS REQUIRED FOR DOOR HOLD OPEN DEVICES.

FULLY SPRINKLERED Project Title Project Number Drawing Title ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT ACG 17-289 676-18-201 Office of FIRE ALARM NOTES, SYMBOLS, Whole Health Clinic CONSTRUCTION AND ABBREVIATIONS Building Number Construction Alteration **DOCUMENTS** Raleigh, NC 13100 watertown plank road suite 200 Elm Grove, Wl 53122 B407 and Facilities Indianapolis, IN JOHN K
MASON
E-43870
RALEIGH
SONAL
S Drawing Number Management APOGEE Pittsburgh, PA Tomah, WI architects Virginia Beach, VA Consulting Group FA001 Issue Date Atlanta, GA U.S. Department of Veterans Affairs Nagel Architects Project Number: 17058 5/2/2018 www.acg-pa.com MAH Fort Collins, CO 919-858-7420

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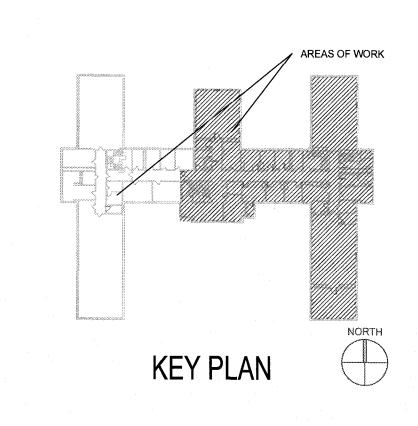




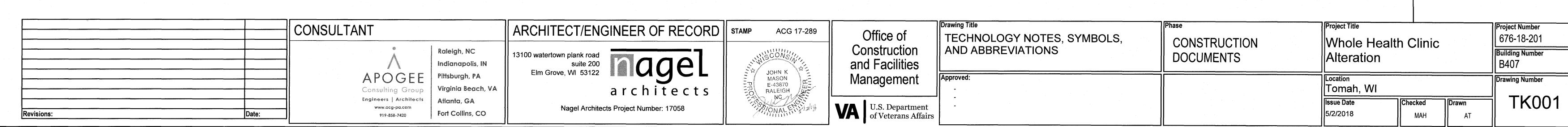
TECHNOLOGY ABBREVIATIONS LIST ADO AUTOMATIC DOOR OPERATOR AFF ABOVE FINISH FLOOR OIT OFFICE OF INFORMATION AND TECHNOLOGY AOF AREA OF REFUGE PACS PHYSICAL ACCESS CONTROL SYSTEM CCTV CLOSED CIRCUIT TELEVISION PAMN PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEM COAX COAXIAL CABLE PB PUSH BUTTON PDU RACK POWER DISTRIBUTION UNITS POE POWER OVER ETHERNET COMM COMMUNICATION PTZ PAN/TILT/ZOOM PR PAIR DC DOOR CONTACT SWITCH DN DOWN DOOR OPERATOR DVR DIGITAL VIDEO RECORDER RX REQUEST TO EXIT EEB EMERGENCY EXIT BUTTON SEP SERVICE ENTRANCE PROTECTION ELECTRICAL STRIKE SM SINGLE MODE FIBER FAP FIRE ALARM PANEL TELECOMM GROUND BUS BAR FAAP FIRE ALARM ANNUNCIATOR PANEL TMGB TELECOMM MAIN GROUND BUS BAR FO FIBER OPTIC TWISTED PAIR TELECOMM ROOM IT INTERCOMMUNICATION ROOM TELEPHONE TERMINAL BOARD TELEVISION MATV MASTER ANTENNA TELEVISION MM MULTI MODE FIBER WAP WIRELESS ACCESS POINT WM WIRE MANAGEMENT NAC NETWORK APPLIANCES CONTROL PANEL NTS NOT TO SCALE UNDERWRITERS LABORATORY NVR NETWORK VIDEO RECORDER UPS UNINTERRUPTIBLE POWER SUPPLY

UTP UNSHIELDED TWISTED PAIR

SYMBOL	HEIGHT	DESCRIPTION
V 2	18"	DATA OUTLET - 2-4 PR UTP
V 4	18"	DATA OUTLET - 4-4 PR UTP
V 6	18"	DATA OUTLET - 6-4 PR UTP
V 1	18"	DATA OUTLET - 1-4 PR UTP
▼ 1	48"	TELCO OUTLET - 1-4 PR UTP
W	48"	WALL PHONE - 1-4 PR UTP
₩	CEILING	WIRELESS ACCESS POINT - 2-4 PR UTP
TV	AS NOTED	TV OUTLET WALL MOUNTED
PACS	6' ТО ТОР	PHYSICAL ACCESS CONTROL SYSTEM
CR T	48"	CARD READER (K - KEYPAD)
ES	DOOR	ELECTRONIC LOCKING MECHANISM
EP	DOOR	ELECTRONIC PANIC HARDWARE
DC	DOOR	DOOR CONTACT
RX	ABOVE	REQUEST FOR EXIT SENSOR
DO	DOOR	DOOR OPERATOR
	48"	HANDWAVE
•	48"	EMERGENCY EXIT BUTTON TO RELEASE DOOR (EEB)
MD ↓	88"	MOTION DETECTOR
•	54"	INTERCOM WITH CAMERA
© +M	DESK	INTERCOM MASTER WITH PUSH TO RELEASE DOOR
NCE	6' ТО ТОР	NURSE CALL EQUIPMENT CABINET
<u> </u>	ABOVE	NURSE CALL DOME LIGHT
S	DOOR 48" TO TOP	NURSE CALL SWITCH(PULL CORD)
ΙΩÞ		CCTV DOME CAMERA FIXED
		CCTV DOME CAMERA PAN/TILT/ZOOM
	FLOOR	FOUR POST OIT EQUIPMENT RACK
	FLOOR	TWO POST OIT EQUIPMENT RACK
	FLOOR	OIT EQUIPMENT CABINET
MATV	6' TO TOP	MATV EQUIPMENT CABINET
CCTV	FLOOR	CCTV EQUIPMENT CABINET
	ABOVE CEILING	LADDER CABLE TARY
	18"	GROUND BUS
	8"	4'x8'x3/4" FIRE RATED TTB
V	FLOOR	FLOOR BOX FOR DATA
KP T	48"	PATIENT ROAM ALERT ACCESS CONTROL KEYPAD
L	CEILING	PATIENT ROAM ALERT ANTENNA
®	CEILING	CEILING MOUNTED SPEAKERS
<u>\$</u>	96"	WALL MOUNTED SPEAKERS
	ADE 70.05	ELECTRICAL STRIP MOLD (OUTLETS 48" OC) MTD 48"AFF UON. DUAL CHANNEL, POWER AND LOW VOLTAGE. TER OF DEVICE UNLESS NOTED OTHERWISE.



FULLY SPRINKLERED



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