GOOD SAMARITAN HOSPITAL

MRI PRE-ACTION PANEL UPGRADE

Fire Alarm and Detection System

Equipment Supplied By

Johnson Controls

	DRAWING LIST		
SHEET NAME	DRAWING NAME	ELECTRONIC DRAWING NAME	INCLUDED IN THIS PROJECT
FA-COV-01	TITLE SHEET	FA-COVER	X
FA-COV-02	COVER SHEET	FA-COVER	X
FA-COV-02.1	COVER SHEET	FA-COVER	X
FA-COV-03	COVER SHEET	FA-COVER	
FA-COV-04	COVER SHEET	FA-COVER	
FA-COV-05	COVER SHEET	FA-COVER	
FA-COV-06	PANEL LAYOUT	FA-COVER	
FA-COV-07	PANEL LAYOUT	FA-COVER	
FA-COV-08	PANEL LAYOUT	FA-COVER	
FA-COV-09	SUP. PANEL LAYOUT	FA-COVER	X
FA-RIS-01	RISER SHEET	FA-RISER	X
FA-RIS-02	RISER SHEET	FA-RISER	
FA-DET-01	DETAIL SHEET	FA-COVER	
FA-DET-02	DETAIL SHEET(T.I.)	FA-COVER	X
FA-SCP-01	SMOKE CONTROL PANEL	FA-SCP-01	
FA-LEVA-W	LEVEL A WEST FLOOR PLAN	FA-LEVEL A	
FA-LEVA-E	LEVEL A EAST FLOOR PLAN	FA-LEVEL A	
FA-LEV1-W	LEVEL 1 WEST FLOOR PLAN	FA-LEVEL 1	
FA-LEV1-E	LEVEL 1 EAST FLOOR PLAN	FA-LEVEL 1	
FA-LEV2-W	LEVEL 2 WEST FLOOR PLAN	FA-LEVEL 2	
FA-LEV2-E	LEVEL 2 EAST FLOOR PLAN	FA-LEVEL 2	
FA-LEV3-W-D	LEVEL 3 WEST FLOOR DEMO PLAN	FA-LEVEL 3-D	
FA-LEV3-E-D	LEVEL 3 EAST FLOOR DEMO PLAN	FA-LEVEL 3-D	X
FA-LEV3-W	LEVEL 3 WEST FLOOR PLAN	FA-LEVEL 3	X
FA-LEV3-E	LEVEL 3 EAST FLOOR PLAN	FA-LEVEL 3	X
FA-LEV4-W	LEVEL 4 WEST FLOOR PLAN	FA-LEVEL 4	
FA-LEV4-E	LEVEL 4 EAST FLOOR PLAN	FA-LEVEL 4	
FA-LEV5-W	LEVEL 5 WEST FLOOR PLAN	FA-LEVEL 5	
FA-LEV5-E	LEVEL 5 EAST FLOOR PLAN	FA-LEVEL 5	
FA-LEV6-W	LEVEL 6 WEST FLOOR PLAN	FA-LEVEL 6	
FA-LEV6-E	LEVEL 6 EAST FLOOR PLAN	FA-LEVEL 6	
FA-LEV7-W	LEVEL 7 WEST FLOOR PLAN	FA-LEVEL 7	
FA-LEV7-E	LEVEL 7 EAST FLOOR PLAN	FA-LEVEL 7	
FA-LEV8-W	LEVEL 8 WEST FLOOR PLAN	FA-LEVEL 8	
FA-LEV8-E	LEVEL 8 EAST FLOOR PLAN	FA-LEVEL 8	
FA-ROOF-W	ROOF WEST FLOOR PLAN	FA-ROOF	
FA-ROOF-E	ROOF EAST FLOOR PLAN	FA-ROOF	

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

City of Puyallup Fire REVIEWED FOR COMPLIANCE
DDrake
05/15/2023
8:35:19 AM

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

Project Team Contact Information

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NICET Fire Alarm System LevelIII, #148077

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 8TH FLR TI RECORD DRAWINGS	RSC		600595222
46	1/23/19	DALLY PHARMACY	RSC	JWB	610318224
	9/20/19	DALLY PHARMACY RECORD DRAWINGs	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

FIRE ALARM SYSTEM
TITLE SHEET

GOOD SAMARITAN - PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501

ELECTRONIC DRAWING NAME: FA-COVER

SHEET NUMBER: FA-COV-01

42" x 30"

GENERAL FIRE ALARM SYSTEM NOTES

1) FIRE ALARM SYSTEM IS POWER LIMITED. METALLIC RACEWAY SHALL BE USED IF REQUIRED BY CODE, SPECIFICATIONS AND CONTRACT DOCUMENTS OR AHJ.
2) ALL RACEWAYS MUST BE FREE OF MOISTURE
3) REFER TO JOHNSON CONTROLS FIRE ALARM DATA SHEETS FOR PROPER TYPE AND SIZES OF REQUIRED DEVICE MOUNTING ELECTRICAL BOXES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION OF ALL DEVICES.
4) AC VOLTAGE IS NOT PERMITTED IN THE SAME RACEWAY AS FIRE ALARM WIRING.
5) UNRELATED (NON-FIRE ALARM) WIRING SHALL NOT BE IN THE SAME RACEWAY AS FIRE ALARM WIRING.
6) ALL CONTRACTOR FIELD WIRING MUST ENTER ALARM CONTROL PANEL BACKBOX FOLLOWING POWER-LIMITED AND NON POWER-LIMITED WIRING REQUIREMENTS. REFER TO INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
7) ZONE CIRCUITS AND SIGNAL CIRCUITS ARE ELECTRICALLY SUPERVISED. BRANCH CIRCUITS SHALL BE LOOPED TO MAINTAIN INTEGRITY OF SUPERVISED CIRCUITS--T-TAPPING OF ZONE CIRCUITS AND SIGNAL CIRCUITS IS NOT PERMITTED.
8) REFER TO FACP MODULE DIAGRAMS, INCLUDED WITH FACP, FOR SPECIFICATIONS AND INFORMATION ON INDIVIDUAL PANEL MODULES. VERIFY ALL CONNECTIONS WITH A JOHNSON CONTROLS FIELD TECHNICAL REPRESENTATIVE PRIOR TO TERMINATION.
9) ALL FIRE ALARM WIRING SHALL TEST FREE OF OPENS, SHORTS AND GROUNDS.
10) ALL WIRING SHALL BE LABELED AND TAGGED
11) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAKING ALL FINAL CONNECTIONS PRIOR TO JOB CHECKOUT AND FINAL TESTING BY A JOHNSON CONTROLS FIELD TECHNICAL REPRESENTATIVE. CALL A MINIMUM OF 5 DAYS IN ADVANCE TO SCHEDULE A JOHNSON CONTROLS TECHNICIAN AT (206) 777-4860
12) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR INSPECTION, TEST AND CERTIFICATION OF THE FIRE ALARM SYSTEM BY ALL APPROPRIATE AUTHORITIES.
13) UPON WRITTEN REQUEST, JOHNSON CONTROLS WILL PROVIDE WRITTEN INSTRUCTIONS REGARDING THE APPROPRIATE WIRE/CABLE FOR INSTALLATION OF THE EQUIPMENT/SYSTEM(S) IDENTIFIED IN THESE DRAWINGS. JOHNSON CONTROLS SHALL NOT BE RESPONSIBLE FOR PROBLEMS OR DAMAGES RESULTING FROM THE USE OF WIRE/CABLE OTHER THAN THAT WHICH HAS BEEN IDENTIFIED IN WRITING BY JOHNSON CONTROLS FOR A SPECIFIC APPLICATION.
14) ALL WIRING SHALL MEET ALL APPLICABLE NATIONAL ELECTRIC CODE ARTICLES FOR FIRE ALARM AND LOW VOLTAGE WIRING.

ARCHITECT: N/A

FIRE ALARM SYSTEM DESIGNED BY: JOHNSON CONTROLS SEATTLE, WA

FIRE ALARM SYSTEM INSTALLED BY: GOOD SAMARITAN HOSPITAL PUYALLUP, WA

EQUIPMENT FOR FIRE ALARM SYSTEM SUPPLIED BY: JOHNSON CONTROLS SEATTLE, WA

WASHINGTON STATE ELECTRICAL CONTRACTORS NUMBER: JOHNSCP831PR

• THESE DRAWINGS DO NOT SUPERSEDE THE CONTRACT DRAWINGS AND SPECIFICATIONS, THEY ARE INTENDED AS A SUPPLEMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS. THEY DO NOT MODIFY THE CONTRACTORS OBLIGATIONS TO CONFORM TO THE PROJECTS ORIGINAL DESIGN CRITERIA.

BATTERY CALCULATIONS - NDU N6 (1st Floor)

Does the system have an Emergency Generator that meets NEC 700.01?
___yes X no

How many hours of battery standby are required?
X 4 ___24 ___48 ___60 (4 hours minimum w/ Emergency Generators)

Qty	Part #	Description	Standby Current (A)	Total Standby (A)	Alarm Current (A)	Total Alarm (A)
1	4100-9151	Network Display Unit	0.7330	0.7330	0.7980	0.7980
4	4603-9101	LCD Annunciator	0.0300	0.1200	0.1700	0.6800
1	CEF-L-GR-GP6	Smoke Control Panel	0.0168	0.0168	0.3120	0.3120
				0.0000		0.0000
			Total Standby=	0.8698	Total Alarm=	1.7900
					Time (Hrs)	
		Total Standby Current Required=	0.8698	X	4.0000	3.4792
		Total Alarm Current Required=	1.7900	X	0.0833	0.1491
		Total=				3.6283
		50% Depletion Factor=				1.8142
		Total Amp/Hour Required=				5.4425
		Total Amp/Hour Batteries Provided=			(1) set	33.0000

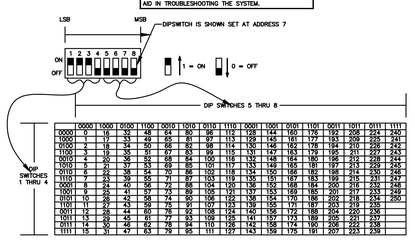
BATTERY CALCULATIONS - FACP N7 (1st Floor)

Does the system have an Emergency Generator that meets NEC 700.01?
___yes X no

How many hours of battery standby are required?
X 4 ___24 ___48 ___60 (4 hours minimum w/ Emergency Generators)

Qty	Part #	Description	Standby Current (A)	Total Standby (A)	Alarm Current (A)	Total Alarm (A)
1	4100-9111	Fire Alarm Control Panel	2.1184	2.1184	13.1830	13.1830
34	4906-9153	Speaker/Strobe 15cd	0.0000	0.0000	0.0600	2.0400
3	4906-9153	Speaker/Strobe 30cd	0.0000	0.0000	0.0940	0.2820
6	4906-9153	Speaker/Strobe 75cd	0.0000	0.0000	0.1860	1.1160
2	4906-9153	Speaker/Strobe 110cd	0.0000	0.0000	0.2520	0.5040
23	4906-9103	Strobe 15cd	0.0000	0.0000	0.0600	1.3800
12	4098-9756	TrueAlarm Duct Smoke Sensor	0.0024	0.0288	0.0150	0.1800
12	4098-9843	Duct Detector Relay	0.0000	0.0000	0.0150	0.1800
22	2088-9008	Remote Relay	0.0000	0.0000	0.0150	0.3300
				Total Standby=	2.1472	Total Alarm=	19.1950
						Time (Hrs)	
		Total Standby Current Required=		2.1472	X	4.0000	8.5888
		Total Alarm Current Required=		19.1950	X	0.0833	1.5989
		Total=					10.1877
		50% Depletion Factor=					5.0939
		Total Amp/Hour Required=					15.2816
		Total Amp/Hour Batteries Provided=				(1) set	50.0000

EACH ADDRESSABLE DEVICE HAS A UNIQUE ADDRESS. THE ADDRESS OF THE ADDRESSABLE DEVICE IS SET VIA AN EIGHT POSITION DIP SWITCH. DIP SWITCH POSITION (1) IS THE LEAST SIGNIFICANT BIT (LSB) AND POSITION (8) IS THE MOST SIGNIFICANT BIT (MSB). SET THE ADDRESSABLE DEVICE ADDRESS USING THIS CHART AS REFERENCE. USE A SMALL SCREWDRIVER OR PEN TO SET THE SWITCHES. THE DEVICE ADDRESS FOR THE ADDRESSABLE LOOPS SHOULD BE WRITTEN ON THE ADDRESSABLE LOOPS. THIS CHART ALSO PROVIDES AN AID IN TROUBLESHOOTING THE SYSTEM.



	0000	1000	0100	1100	0010	1010	0110	1110	0001	1001	0101	1101	0011	1011	0111	1111
0000	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1000	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
0100	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
1100	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
0010	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
1010	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
0110	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
1110	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
0001	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
1001	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
0101	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
1101	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	
0011	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	
1011	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	
0111	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	
1111	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	

MAPNET II SUPPORTS ADDRESS CODES 1 THROUGH 127 ONLY
IDNET SUPPORTS ADDRESS CODES 1 THROUGH 250 ONLY

ADDRESSABLE DEVICE CHART

Supervisory Smoke Detectors

IDNET	Description
N9:M2-177	MT - LVL A STAFF BREAK M442
N7:M1-125	MT - LVL 1 CLEAN UTIL/NOURISH M138.1
N7:M1-137	MT - LVL 1 STAFF LOCKERS M184
N7:M1-138	MT - LVL 1 STAFF BREAK/COATS M183
N7:M2-64	MT - LVL 2 OR 6 M287 EAST
N7:M2-65	MT - LVL 2 OR 6 M287 WEST
N7:M2-67	MT - LVL 2 OR 5 M288 EAST
N7:M2-68	MT - LVL 2 OR 5 M288 WEST
N7:M2-73	MT - LVL 2 OR 4 M281 WEST
N7:M2-74	MT - LVL 2 OR 4 M281 EAST
N7:M2-76	MT - LVL 2 OR 3 M282 WEST
N7:M2-77	MT - LVL 2 OR 3 M282 EAST
N7:M2-83	MT - LVL 2 OR 2 M283 WEST
N7:M2-84	MT - LVL 2 OR 2 M283 EAST
N7:M2-91	MT - LVL 2 OR 1 M284 WEST
N7:M2-92	MT - LVL 2 OR 1 M284 EAST
N7:M2-177	MT - LVL 2 BREAKROOM M255
N7:M2-178	MT - LVL 2 BREAKROOM M253
N7:M2-183	MT - LVL 2 CLEAN UTILITY M234.2
N7:M3-33	MT - LVL 3 INTER RADIOLOGY 1 M336 SE
N7:M3-34	MT - LVL 3 INTER RADIOLOGY 1 M336 NW
N7:M3-36	MT - LVL 3 INTER RADIOLOGY 2 M337 SE
N7:M3-37	MT - LVL 3 INTER RADIOLOGY 2 M337 NW
N7:M3-40	MT - LVL 3 CATH 1 M333 NW
N7:M3-41	MT - LVL 3 CATH 1 M333 SE
N7:M3-44	MT - LVL 3 CATH2 M332 SW
N7:M3-45	MT - LVL 3 CATH2 M332 NE
N7:M3-51	MT - LVL 3 NOURISHMENT M331.4
N7:M3-76	MT - LVL 3 MRI 365 N
N7:M3-77	MT - LVL 3 MRI 365 S
N7:M3-81	MT - LVL 3 MRI TRANSFER M365.1
N7:M3-164	MT - LVL 3 CONFERENCE M358
N7:M3-179	MT - LVL 3 LOCKERS M392
N7:M3-180	MT - LVL 3 BREAKROOM M325
N7:M3-184	MT - LVL 3 CLEAN UTILITY M374.2
N7:M3-186	MT - LVL 3 CLEAN UTILITY M371
N7:M3-190	MT - LVL 3 CONFERENCE M308.1
N7:M3-193	MT - LVL 3 BREAKROOM M334.7
N7:M3-209	MT - LVL 3 CT-2 M362
N8:M2-36	MT - LVL 5 FOOD PANTRY/NOURISH M587
N8:M2-78	MT - LVL 5 FOOD PANTRY/NOURISH M577
N8:M2-91	MT - LVL 5 STAFF BREAK M557
N8:M2-93	MT - LVL 5 CONFERENCE M556
N8:M3-36	MT - LVL 6 FOOD PANTRY/NOURISH M662
N8:M3-71	MT - LVL 6 FOOD PANTRY/NOURISH M655
N8:M3-91	MT - LVL 6 STAFF BREAK M680
N8:M3-93	MT - LVL 6 CONFERENCE M658

Legend

Symbol	Description	Part #	Backbox
F	Multicandela Wall Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9153	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F C	Multicandela Ceiling Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9154	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
	Multicandela Wall Strobe - White * subscript indicates circuit # and candela setting	4906-9103	4" sq by EC
	Multicandela Ceiling Strobe - White * subscript indicates circuit # and candela setting	4906-9102	4" sq by EC
S	Wall Speaker - White * subscript indicates circuit #	4902-9717	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
S C	Ceiling Speaker - White * subscript indicates circuit #	4902-9721	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F	Addressable Manual Station * subscript indicates device address	4099-9003 w/ STI1100 Cover	4" sq 2 1/8" deep w/ sg ring by EC
P	Addressable Manual Station Suppresion * subscript indicates device address	4099-9015 w/ 4099-9802 Label Kit	4" sq 2 1/8" deep w/ sg ring by EC
S	TrueAlarm Smoke Sensor * subscript indicates device address/ SUPV indicates supervisory device	4098-9714 w/ 4098-9792 Base	4" oct by EC
H	TrueAlarm Heat Sensor * subscript indicates device address	4098-9733 w/ 4098-9792 Base	4" oct by EC
H FT	Heat Detector - 135FT	ED-283B-PL	4" oct by EC
D	TrueAlarm Duct Sensor * subscript indicates device address and sampling tube size	4098-9756	self-contained
	Remote LED w/Test	2098-9806	sg by EC
DR	Duct Detector Relay	4098-9843	4"sq w/sg & cover by EC
BT BR	Beam Smoke Detector - Transmitter Beam Smoke Detector - Reflector	BEAM1224	Surface Box w/BEAMSMK Surface
M	Monitor ZAM * subscript indicates device address	4090-9101	4"sq 2 1/8" deep w/ 2-gang cover by EC
IAM	Supervised IAM * subscript indicates device address	4090-9001	4"sq w/sg & cover by EC
FS	Flow Switch	By Others	By Others
PS	Pressure Switch	By Others	By Others
LA	Low Air Switch	By Others	By Others
TS	Tamper Switch	By Others	By Others
PIV	Post Indicator Valve	By Others	By Others
SS	Coil Supervision Module	2081-9046	
	Pre-Action Solenoid	By Others	By Others
DH	Door Holders	By Others	
MC	Suppression Mech. Disconnect	2080-9060	Included
R	Relay IAM * subscript indicates device address	4090-9002	4"sq 2 1/8" deep w/ 2-gang cover by EC
R	Remote Relay	2088-9008	self-contained
	FFT Jack	2084-9001	sg by EC
FFT	FFT Cabinet	2084-9026 w/ (10) 2084-9024 handsets	23.5"H x 23.5"W x 4.0"D
SCP	Smoke Control Panel	CEF-L-GR-GP6	41"H x 29"W x 4.75"D
SRP	Suppression Releasing Peripheral	4090-9006	8.125"H x 6.125"W x 4"D Surface Mount
PTR	Printer	4190-9013	Table Top
LCD	LCD Annunciator	4603-9101	6-gang 3.5"deep by EC or RSA-WP-SA
TC	Terminal Cabinet	SSU00661	13"H x 23.5"W x 5.5"D
TPR	Transponder Panel	4100-9601	56"H x 24"W x 8.375"D 2975-9432
FACP	Fire Alarm Control Panel	4100-9114	56"H x 24"W x 8.375"D 2975-9426
NDU	Network Display Unit	4100-9151	56"H x 24"W x 8.375"D 2975-9426
PRE	4007ES Pre-Action Panel	4007-9101	16.25"H x 13.5"W x 5.75"D

Wire Code

Letter	Qty	Color/Type	Size	Function
A	2	Black/Orange TFN	16	Zone
C	2	Red/Blue THHN	14	Horn/Strobe
D	4	(2) Red/(2) Blue THHN	14	Horn/Strobe Loop
E	2	Brown/Yellow THHN	14	Door Holders
F	2	Orange THHN	14	Fan Shutdown
H	1	WestPenn D975	18	Serial Communication
	2	Red/Black THHN	14	
J	1	WestPenn 991	16	Speaker
K	2	WestPenn 991	16	Speaker Loop
L	1	WestPenn 5220FZ	16	Local Network Connection**
	1	WestPenn 5220FZ	16	
M	1	WestPenn 5220FZ	16	Miniplex Transponder**
	1	WestPenn 5220FZ	16	
	1	WestPenn 5120UZ	14	
N	2	WestPenn D975	18	Network Connection
P	2	Red/Black THHN	14	24VDC Power
R	2	Blue/White TFN	16	Remote LED w/Test
	2	Pink TFN	16	
T	1	WestPenn 991	16	Fire Fighter Telephone
V	1	WestPenn D977	18	Printer
X	1	WestPenn D975	18	Addressable Data Line

** 2-hr cable for survivability

Fire Alarm Control Panel – N7 (Level 1)

Auxiliary Circuits
N7:AUX(1-2)) Not Available
N7:AUX3) Spare
N7:AUX4) Auxiliary Power
N7:AUX5) Not Available
N7:AUX6) Auxiliary Power
N7:AUX7) Not Available
N7:AUX8) Auxiliary Power
N7:AUX9) Level 1 Door Holders
N7:AUX10) Level 1 East Link Door Holders
N7:AUX(11-16)) Spare

Fire Fighter Telephone Circuits
N7:SIG21) Stair 1
N7:SIG22) Stair 2/3
N7:SIG23) Elevator 1-3 Lobbies/CAB
N7:SIG24) Elevator 4-5 Lobbies/CAB
N7:SIG25) Elevator 6-7 Lobbies/CAB
N7:SIG26) Elevator 8 Lobbies/CAB
N7:SIG27) Elevator 9 Lobbies/CAB
N7:SIG28) Fire Pump Room
N7:SIG29) Spare

Speaker Circuits		Watts
N7:SIG30)	Level 1 West	15.0
N7:SIG31)	Stair 1	3.0
N7:SIG32)	Stair 2/3	3.0
N7:SIG(33-35))	Not Available	
Total Watts		21.0
Watts Provided		50.0
N7:SIG36)	Level 1 Northeast	7.5
N7:SIG37)	Elevator 1-3 Cabs	1.5
N7:SIG38)	Level 1 East Link	4.5
N7:SIG39)	Level 1 Southeast	7.5
N7:SIG40)	Mic Trip to Node N8	0.0
N7:SIG41)	Mic Trip to Node N9	0.0
Total Watts		21.0
Watts Provided		50.0

IDNET Channel #M1
Level 1 – N7:M1-2 to N7:M1-32, N7:M1-34 to N7:M1-60, N7:M1-62 to N7:M1-75, N7:M1-78 TO N7:M1-139, N7:M1-178 TO N7:M1-179, N7:M1-240 to N7:M1-245
Level 1 East Link – N7:M1-160 to N7:M1-170
Level 1 Pharmacy – N7:M1-171 to N7:M1-176
Stair 1 – N7:M1-150 to N7:M1-155, N7:M1-157 to N7:M1-159, N7:M1-180 to N7:M1-208
Stair 2/3 – N7:M1-141 to N7:M1-149, N7:M1-156, N7:M1-211 to N7:M1-235

Fire Alarm Network

Node Assignments
N1) Hospital - GCC
N2) Hospital - FACP
N3) Hospital West Wing - FACP
N4) Parking Structure 2 - FACP
N5) Central Utility Plant - FACP
N6) Patient Care Tower - NDU
N7) Patient Care Tower - Level 1 FACP
N8) Patient Care Tower - Level 4 FACP

SCOPE OF WORK:

MODIFY EXISTING FIRE ALARM SYSTEM: EXISTING PRE-ACTION SYSTEM PANEL AND ALL COMPONENTS TO BE DECOMMISSIONED AND REMOVED AS DEPICTED ON DEMO PLAN SHEET. PROVIDE NEW 4007ES PRE-ACTION SYSTEM PANEL AND TIE-IN TO EXISTING SIMPLEX 4120 NETWORK. PROVIDE NEW SUPPRESSION RELEASING APPLIANCE AND PERIPHERALS AND ADDRESSABLE MODULES TO MONITOR PRE-ACTION SPRINKLER POINTS. PROVIDE ADDRESSABLE MODULES TO MONITOR THE EXISTING VESDA SYSTEM SERVING THE PRE-ACTION COVERAGE AREA.

ALL WIRING TO BE CLASS B.

THE EXISTING FIRE ALARM SYSTEM SHALL NOT NE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM THE OWNER. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE OWNER THE TIMING OF ANY EXISTING FIRE ALARM SYSTEM DEMOLITION WORK.

ELECTRICAL CONTRACTOR

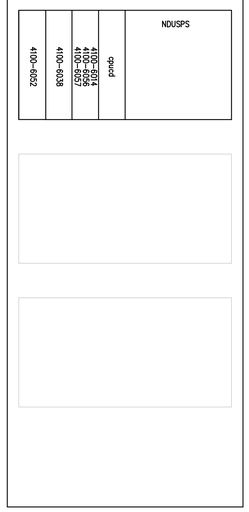
- ELECTRICAL CONTRACTOR IS TO SCHEDULE A PRELIMINARY SITE MEETING WITH A JOHNSON CONTROLS TECHNICAL REPRESENTATIVE. THESE MEETINGS ARE FOR REVIEWING EQUIPMENT LISTS, INSTALLATION PROCEDURES, AND PROVIDING ANSWERS TO QUESTIONS RELATIVE TO SYSTEM INSTALLATION.
- PLEASE ALLOW A MINIMUM OF FIVE WORKING DAYS ADVANCE NOTICE TO SCHEDULE A TECHNICAL REPRESENTATIVE.
- TO SCHEDULE A MEETING PLEASE CONTACT OUR TECHNICIAN SCHEDULER AT (206) 777-4860
- DO NOT USE FIRE ALARM CABINET AS TERMINAL CABINET

ELECTRICAL CONTRACTOR ASBUILTS

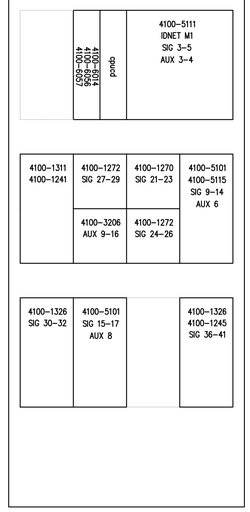
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOHNSON CONTROLS WITH ACCURATE REDLINED DRAWINGS. DRAWINGS SHALL BE REDLINED AS NECESSARY TO SHOW THE FOLLOWING:
  - * DEVICE LOCATIONS – ADDS/DELETES.
  - * CIRCUIT NUMBERS – ADDRESSABLE/SIGNAL/AUXILIARY/ZONE.
  - * WIRE/CONDUIT – ACCURATE ROUTING.
  - * WIRE FILL – USING WIRE CODE.
  - * EOL RESISTOR LOCATIONS.

JOHNSON CONTROLS WILL PROVIDE (UPON REQUEST) A BLANK SET OF FLOOR PLANS TO BE REDLINED. JOHNSON CONTROLS WILL INCORPORATE ALL REDLINED CHANGES INTO THE RECORD AUTOCAD SET OF DRAWINGS.

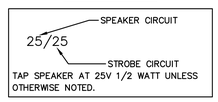
NDU N6 – LEVEL 1



FACP N7 – LEVEL 1

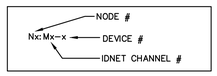


STROBE AND SPEAKER IDENTIFICATION



TAP SPEAKER AT 25V 1/2 WATT UNLESS OTHERWISE NOTED.

ADDRESSABLE DETECTOR IDENTIFICATION



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Signal Circuits – FACP N7 (Level 1)															Current	Dist. (ft)	Voltage Drop
															N7:SIG(1-2) Not Available		
8		1		2											N7:SIG3) Level 1 Northwest Strobes	0.786	520	2.61
6	1	1		4											N7:SIG4) Level 1 Southwest Strobes	0.880	569	3.19
3	1	2		3											N7:SIG5) Level 1 Northeast Strobes	0.826	650	3.43
															N7:SIG(6-8) Not Available			
4	1	1		7											N7:SIG9) Level 1 Northeast Central Strobes	0.940	660	3.96
8			1	2											N7:SIG10) Level 1 Southeast Central Strobes	0.852	605	3.29
2		1	1	5											N7:SIG11) Level 1 Southeast Strobes	0.858	595	3.26
3															N7:SIG12) Level 1 East Link Strobes	0.180	545	0.63
															N7:SIG13) Spare	0.000		0.00
															N7:SIG14) Spare	0.000		0.00
															N7:SIG(15-20)) Not Available			
34	3	6	2	23	0	0	0	0	0	0	0	0	0	0	Total	5.322		
15cd	30cd	75cd	110cd	15cd	30cd	75cd	110cd	Ceiling Speaker/Strobe 15cd	Ceiling Speaker/Strobe 30cd	Ceiling Speaker/Strobe 75cd	Ceiling Speaker/Strobe 110cd	Ceiling Strobe 15cd	Weatherproof Bell				
0.060	0.094	0.186	0.252	0.060	0.094	0.186	0.252	0.075	0.125	0.233	0.316	0.060	0.030				

Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 6TH FLR TI RECORD DRAWINGS	RSC		600595222
46	1/23/19	DALLY PHARMACY	RSC	JWB	610318224
	9/20/19	DALLY PHARMACY RECORD DRAWINGS	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MEI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
COVER SHEET
GOOD SAMARITAN – PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA-COV-02

ELECTRONIC DRAWING NAME: FA-COVER

42" x 36"

Sequence of Operation	Manual Station	Smoke Detection	Supervisory Smoke Detection*	Beam Smoke Detection	Corridor Smoke Detection	Anesthetizing Area Smoke Detection	IDF Room Smoke Detection	Primary Recall Elevator Lobbies Smoke Detection	Elev Lobbies Except Primary Recall Smoke Detection	Elevator Mach Rm/Shaft Smoke Detection	Elevator Power Monitor	Duct Smoke Detection Supply Air Handler	Duct Smoke Detection Exhaust Air Handler	Duct Smoke Detection Supply Smoke/Fire Damper	Duct Smoke Detection Exhaust Smoke/Fire Damper	Heat Detection	Clean Agent System Control Panel	Flow Switch	Pressure Switch	High/Low Air Switch	Tamper Switch	Fire Pump	System Trouble	Pre-Action Alarm	Pre-Action Supervisory	Pre-Action Trouble
Activation of Local Alarm at FACP (LCD Display & Audible Indication)	X	X		X	X		X	X	X	X						X	X	X	X					X		
Activation of Local Alarm at Annunciator	X	X		X	X		X	X	X	X						X	X	X	X					X		
Activate Visible Devices Alarm Floor	X	X		X	X		X	X	X	X						X	X	X	X					X		
Activate Audible Devices Alarm Floor/Floor Above/Floor Below	X	X		X	X		X	X	X	X						X	X	X	X					X		
Release Door Holders Within Smoke Zone	X	X		X	X		X	X	X	X						X	X	X	X					X		
Release Door Holders Floor of Alarm	X																							X		
Release Elevator Door Smoke Curtains Local Detection Only		X		X	X		X										X									
Release Stair Door Locks Floor of Alarm	X	X		X	X		X	X	X	X						X	X	X	X					X		
Close Corridor Smoke/Fire Dampers Within Smoke Zone					X																					
Close Smoke/Fire Dampers at Duct Det.														X	X											
Maintain Smoke/Fire Dampers in Anesthetizing Area Ducts in Open Position															X											
Shutdown AHU and SAHU Supply Fan												X														
Shutdown EAHU Exhaust Fan													X													
Send Signal to DDC for Shutdown of Associated AHU, SAHU and EAHU Fans												X	X	X	X											
Send Signal to DDC System					X		X					X	X	X	X		X									
Send Signal to DDC System For Smoke Removal Mode																										
Activate Stair Pressurization Fans	X	X		X	X			X	X	X						X	X	X						X		
Open Elevator Hoistway Vent Dampers								X	X	X																
Initiate Primary Elevator Recall									X	X																
Initiate Alternate Elevator Recall								X																		
Activate Elevator Hat Light										X																
Transmit Alarm Signal To Central Station Monitor	X	X		X	X		X	X	X	X						X	X	X	X					X		
Trouble Indication at FACP																							X			X
Trouble Indication at Annunciator																							X			X
Transmit Trouble Signal To Central Station Monitor																							X			X
Supv Indication at FACP			X			X					X	X	X	X	X					X	X	X			X	
Supv Indication at Annunciator			X			X					X	X	X	X	X					X	X	X			X	
Transmit Supv Signal To Central Station Monitor			X			X					X	X	X	X	X					X	X	X			X	

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

42" x 30"

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47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
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NICET #228884
Fire Alarm Systems, Level III

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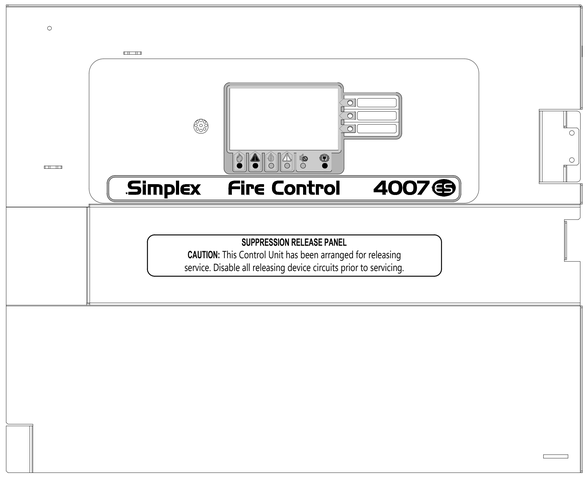
SALES: 206-291-1400
SERVICE: 206-291-1411

FIRE ALARM SYSTEM
COVER SHEET
GOOD SAMARITAN - PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA-COV-02.1

ELECTRONIC DRAWING NAME: FA-COVER



4007 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
1	N13:M1	PRE-ACTION IDNET DEVICES	X
2	N13:SIG1	PRE-ACTION SOLENOID CONTROL	C
3	N13:AUX	AUX POWER	P

MR Suppression Panel 4007 FACP

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4007-9810	1	NETWORK INTERFACE CARD	0.0300	0.0300	0.0300	0.0300
4007-9813	1	WIRED MEDIA MODULE	0.0550	0.0550	0.0550	0.0550
4010-9830	1	SUP RELEASING APPLIQUE KIT	0.0000	0.0000	0.0000	0.0000
4007-9101	1	FIRE ALARM CONTROL PANEL 100 PT ADDRESSABLE – RED *	0.1450	0.1450	0.1800	0.1800
		Panel Totals		0.2300		0.2750
IDNet Addressable Devices (SLC)						
4090-9001	7	IDNET SUPERVISED IAM *	Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".			
4090-9006	1	SUP RELEASE PERIPH & ENCLOSURE *				
4098-9714	1	TRUEALARM PHOTO SMOKE SENSOR				
4098-9792	1	TRUEALARM SENSOR BASE *				
4099-9015	1	ADDRESSABLE PUSH ACTION MANUAL STATION FOR RELEASING *				
Notification Appliances		Setting				
4090-9006	1	SUP RELEASE PERIPH & ENCLOSURE *	0.0000	0.0000	1.7100	1.7100
		Peripheral Totals		0.0000		1.7100
		Address Totals 10 Addresses		0.0080		0.0100
		System Totals*:	Standby	0.2380	Alarm	1.9950

* Device Address current draw included below (See Additional Current Draws).
1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

Battery Set #1 (Cabinet/Charger #1)

			Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set: 4007				0.2300		1.9850
			Sub Total	0.2300		1.9850
Additional Current Draws:						
RUI Connected Peripheral Devices	0	x 0.0035	= 0.0000	x 0.0035	= 0.0000	
MAPNET/IDNet Device Address Communication Current	10	x 0.000800	= 0.0080	x 0.001000	= 0.0100	
		Sub Total	0.2380		1.9950	
Spare addressable point capacity	0%	0 x 0.0008	= 0.0000	x 0.001	= 0.0000	
		Total	0.2380		1.9950	
Standby Time = 24 Hrs		x 0.2380	= 5.7120 Standby Ah			
Alarm Time = 5 Min		0.08333 x 1.995	= 0.1663 Alarm Ah			
			5.8783			
Additional Spare Battery Capacity = 0%			+ 0.0000			
			5.8783			
Battery Discharge Factor = 20%			+ 1.1757			
Minimum Battery Required			7.0539			
Battery Supplied 2081-9275 18AH (2x)						

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

MR Suppression Panel 4007 FACP VOLTAGE DROPS — PID 4090-9006; Setting; Device Type; Supv. Current 0.0000; Alarm Current 1.7100

WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE) @ 75 Celsius

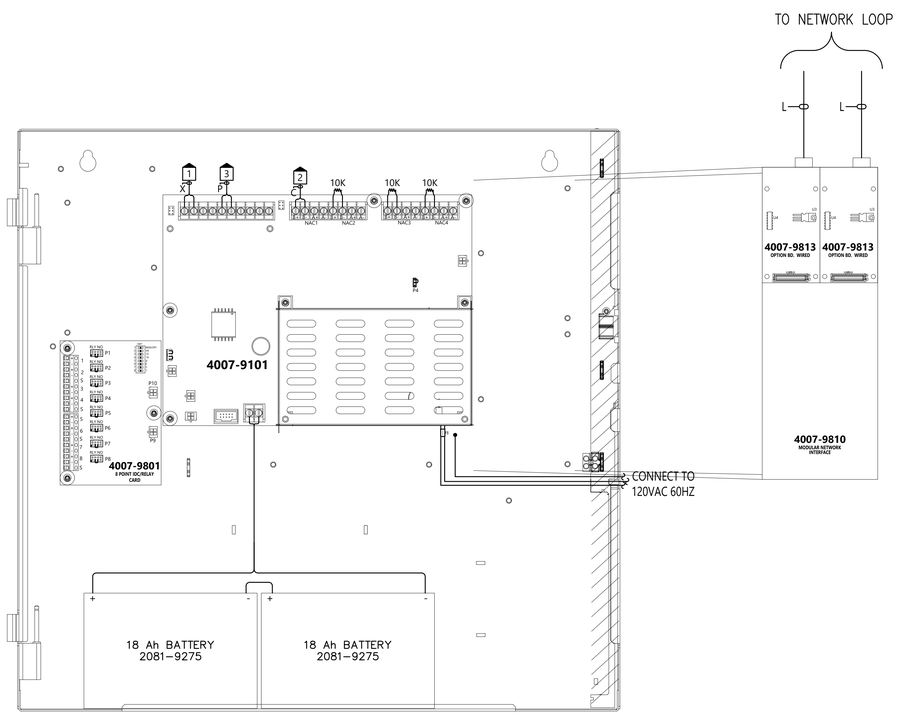
NOTIFICATION CIRCUIT DESCRIPTION	Power Supply	Panel Circuit	Plan Ckt.	Dist. (D) Feet	Wire Gauge	Wire Res. / Ft. (R)	Total Alarm (A)	V. Drop (A*2D*R)	Volt @ End	% Volt Drop	Min Device Voltage	Max Distance	
Pre-Action Solenoid Release	4007	SIG3	SIG3	15	14AWG	0.0031	1.710	0.157	19.343	0.81%	16vdc	333 FT.	1

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THAT THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOUR LOCAL JOHNSON CONTROLS DISTRICT OFFICE.

IDNET CHANNEL N13:M1 — ADDRESSES IN USE: 10 (4%) | SPARE ADDRESSES: 240 (96%)

Address	Device Type	Point Type	Location Description		SWITCH SETTINGS 1 2 3 4 5 6 7 8	
N13:M1-1					X	ON
N13:M1-2					X	ON
N13:M1-3					X X	ON
N13:M1-4					X	ON
N13:M1-5					X X	ON
N13:M1-6					X X	ON
N13:M1-7					X X X	ON
N13:M1-8					X	ON
N13:M1-9					X X	ON
N13:M1-10					X X	ON
N13:M1-11	IAM	SO	LVL3 MRI PRE-ACTION TAMPER	N13:M1-11	X X X	ON
N13:M1-12	IAM	SO	LVL3 MRI PRE-ACTION LOW AIR	N13:M1-12	X X	ON
N13:M1-13	IAM	WATER	LVL3 MRI PRE-ACTION PRESSURE	N13:M1-13	X X X	ON
N13:M1-14	PHOTO	SMOKE	LVL3 ABOVE MRI PRE-ACTION PNL	N13:M1-14	X X X	ON
N13:M1-15	RELEASE	SUPRELS	LVL3 MRI SUPPRESSION RELEASE	N13:M1-15	X X X X	ON
N13:M1-16	IAM	TROUBLE	LVL3 MRI VESDA TROUBLE	N13:M1-16	X	ON
N13:M1-17	IAM	SUPERV	LVL3 MRI VESDA STAGE 1/2	N13:M1-17	X X	ON
N13:M1-18	IAM	SUPERV	LVL3 MRI VESDA STAGE 3	N13:M1-18	X X	ON
N13:M1-19	IAM	FIRE	LVL3 MRI VESDA FIRE	N13:M1-19	X X X	ON
N13:M1-20	ADRPUL	SUPDUMP	LVL3 MRI SUPPRESSION PULL	N13:M1-20	X X	ON
N13:M1-21					X X X	ON
N13:M1-22					X X X	ON
N13:M1-23					X X X	ON
N13:M1-24					X X	ON
N13:M1-25					X X X	ON
N13:M1-26					X X X	ON
N13:M1-27					X X X	ON
N13:M1-28					X X X	ON
N13:M1-29					X X X X	ON
THRU						ON
N13:M1-250					X X X X X X	ON

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.
POINTS SHOWN IN *ITALIC TEXT* REFER TO EXISTING DEVICES.



4007ES SUPPRESSION RELEASING PANEL

Sequence of Operation Pre-Action	Manual Release Station	Smoke Detection Above Pre-Action	VESDA Alarm Input	VESDA Stage 1/2 Supervisory	VESDA Stage 3 Supervisory	VESDA Trouble	Pre-Action Sprinkler Pressure Switch	Pre-Action Sprinkler Tamper Switch	Pre-Action Sprinkler Low Air Switch	Pre-Action Sprinkler Low Air & VESDA Alarm Input	Maintenance Disconnect Active	Pre-Action Panel Trouble
Activation of Local Alarm at Pre-Action Panel	X	X	X				X			X		
Activation of Local Supervisory at Pre-Action Panel				X	X			X	X		X	
Activation of Local Trouble at Pre-Action Panel						X						X
Actuate Pre-Action Solenoid	X									X		
Transmit General Alarm Over Network	X	X	X				X			X		
Transmit General Supervisory Over Network				X	X			X	X		X	
Transmit General Trouble Over Network						X						X

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DRAWINGS REVIEWED BY:
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NICET #228884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
SUP. PANEL & CALCS

GOOD SAMARITAN – PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
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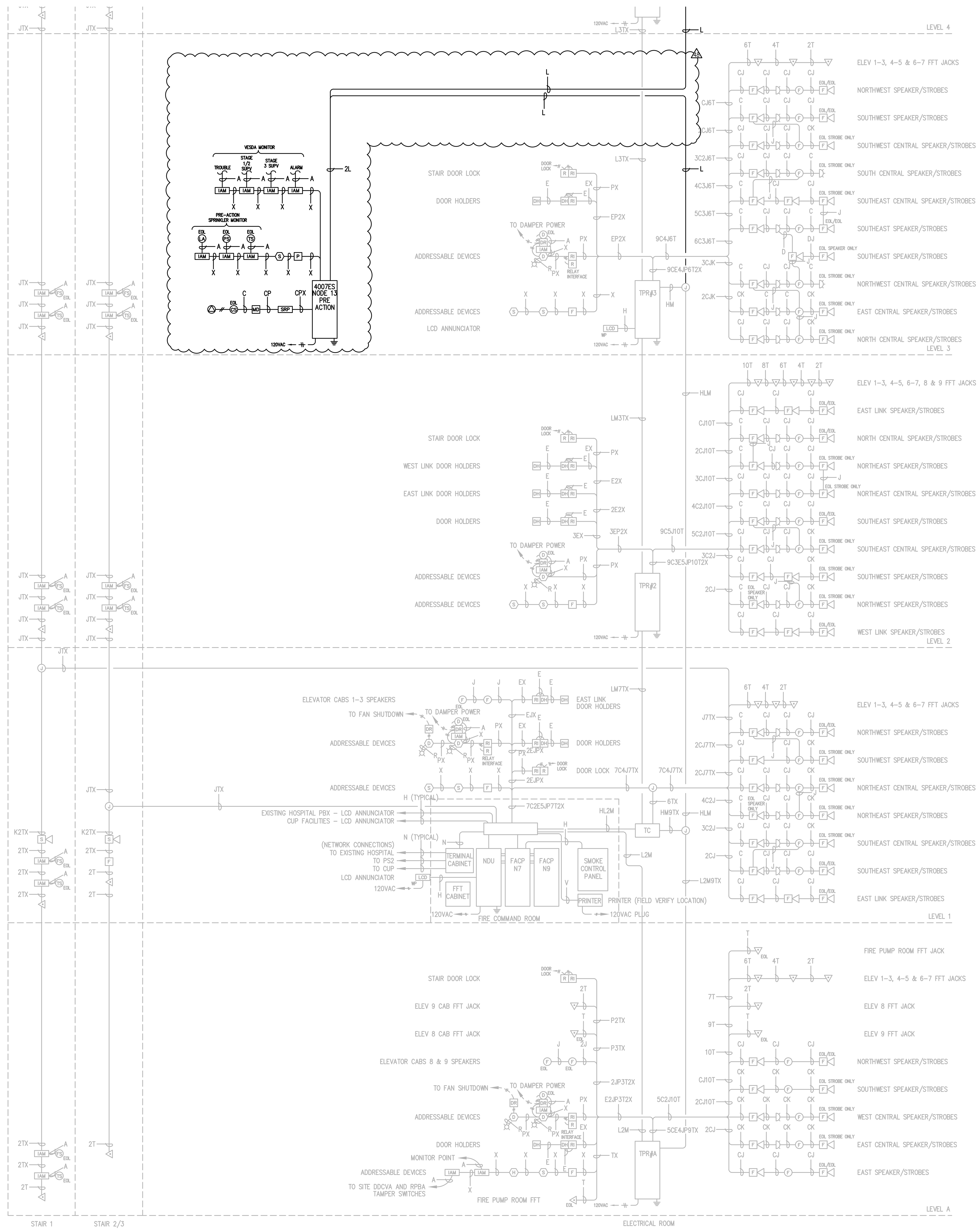
ELECTRONIC DRAWING NAME: FA–COVER



Legend

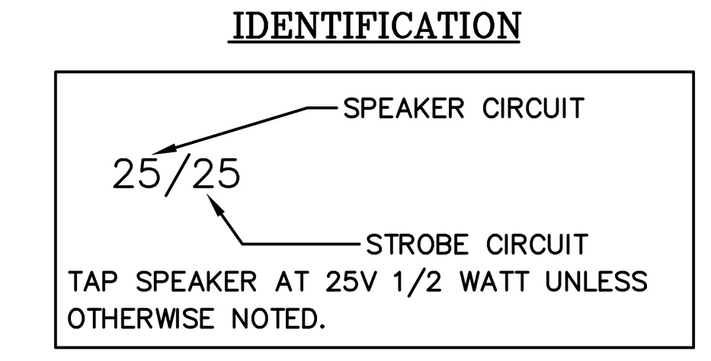
Symbol	Description	Part #	Backbox
F (wall speaker/strobe)	Multicandela Wall Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9153	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F C (ceiling speaker/strobe)	Multicandela Ceiling Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9154	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
(wall strobe)	Multicandela Wall Strobe - White * subscript indicates circuit # and candela setting	4906-9103	4" sq by EC
(ceiling strobe)	Multicandela Ceiling Strobe - White * subscript indicates circuit # and candela setting	4906-9102	4" sq by EC
S	Wall Speaker - White * subscript indicates circuit #	4902-9717	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
S C	Ceiling Speaker - White * subscript indicates circuit #	4902-9721	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F	Addressable Manual Station * subscript indicates device address	4099-9003 w/ STI1100 Cover	4" sq 2 1/8" deep w/ sg ring by EC
P	Addressable Manual Station Suppresion * subscript indicates device address	4099-9015 w/ 4099-9802 Label Kit	4" sq 2 1/8" deep w/ sg ring by EC
S	TrueAlarm Smoke Sensor * subscript indicates device address/ SUPV indicates supervisory device	4098-9714 w/ 4098-9792 Base	4" oct by EC
H	TrueAlarm Heat Sensor * subscript indicates device address	4098-9733 w/ 4098-9792 Base	4" oct by EC
H FT	Heat Detector - 135FT	ED-283B-PL	4" oct by EC
D	TrueAlarm Duct Sensor * subscript indicates device address and sampling tube size	4098-9756	self-contained
(remote LED)	Remote LED w/Test	2098-9806	sg by EC
DR	Duct Detector Relay	4098-9843	4"sq w/sg & cover by EC
BT	Beam Smoke Detector - Transmitter	BEAM1224	Surface Box w/BEAMSMK
BR	Beam Smoke Detector - Reflector		Surface
MZ	Monitor ZAM * subscript indicates device address	4090-9101	4"sq 2 1/8" deep w/ 2-gang cover by EC
IAM	Supervised IAM * subscript indicates device address	4090-9001	4"sq w/sg & cover by EC
FS	Flow Switch	By Others	By Others
PS	Pressure Switch	By Others	By Others
LA	Low Air Switch	By Others	By Others
TS	Tamper Switch	By Others	By Others
PIV	Post Indicator Valve	By Others	By Others
CS	Coil Supervision Module	2081-9046	
(solenoid)	Pre-Action Solenoid	By Others	By Others
DH	Door Holders	By Others	
MD	Suppression Mech. Disconnect	2080-9060	Included
RI	Relay IAM * subscript indicates device address	4090-9002	4"sq 2 1/8" deep w/ 2-gang cover by EC
R	Remote Relay	2088-9008	self-contained
(FFT jack)	FFT Jack	2084-9001	sg by EC
FFT	FFT Cabinet	2084-9026 w/ (10) 2084-9024 handsets	23.5"H x 23.5"W x 4.0"D
SCP	Smoke Control Panel	CEF-L-GR-GP6	41"H x 29"W x 4.75"D
SRP	Suppression Releasing Peripheral	4090-9006	8.125"H x 6.125"W x 4"D Surface Mount
PTR	Printer	4190-9013	Table Top
LCD	LCD Annunciator	4603-9101	6-gang 3.5"deep by EC or RSA-WP-SA
TC	Terminal Cabinet	SSU00661	13"H x 23.5"W x 5.5"D
TPR	Transponder Panel	4100-9601	56"H x 24"W x 8.375"D 2975-9432
FACP	Fire Alarm Control Panel	4100-9114	56"H x 24"W x 8.375"D 2975-9426
NDU	Network Display Unit	4100-9151	56"H x 24"W x 8.375"D 2975-9426
PRE	4007ES Pre-Action Panel	4007-9101	16.25"H x 13.5"W x 5.75"D

Wire Code

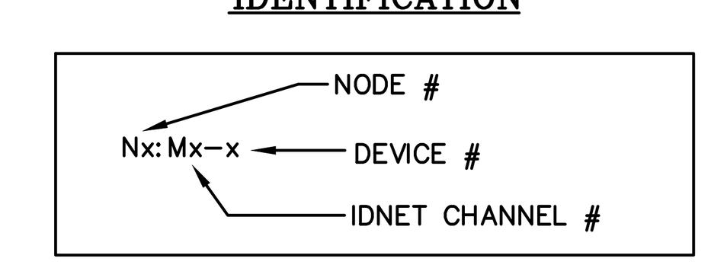
Letter	Qty	Color/Type	Size	Function
A	2	Black/Orange TFN	16	Zone
C	2	Red/Blue THHN	14	Horn/Strobe
D	4	(2) Red/(2) Blue THHN	14	Horn/Strobe Loop
E	2	Brown/Yellow THHN	14	Door Holders
F	2	Orange THHN	14	Fan Shutdown
H	1	WestPenn D975	18	Serial Communication
	2	Red/Black THHN	14	
J	1	WestPenn 991	16	Speaker
K	2	WestPenn 991	16	Speaker Loop
L	1	WestPenn 5220FZ	16	Local Network Connection**
	1	WestPenn 5220FZ	16	
M	1	WestPenn 5220FZ	16	Miniplex Transponder**
	1	WestPenn 5220FZ	16	
	1	WestPenn 5120UZ	14	
N	2	WestPenn D975	18	Network Connection
P	2	Red/Black THHN	14	24VDC Power
R	2	Blue/White TFN	16	Remote LED w/Test
	2	Pink TFN	16	
T	1	WestPenn 991	16	Fire Fighter Telephone
V	1	WestPenn D977	18	Printer
X	1	WestPenn D975	18	Addressable Data Line

** 2-hr cable for survivablity

STROBE AND SPEAKER IDENTIFICATION



ADDRESSABLE DETECTOR IDENTIFICATION



Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 8TH FLR TI RECORD DRAWINGS	RSC		600595222
46	1/23/19	DALLY PHARMACY	RSC	JWB	610318224
	9/20/19	DALLY PHARMACY RECORD DRAWINGS	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

ELECTRONIC DRAWING NAME: FA-RISER

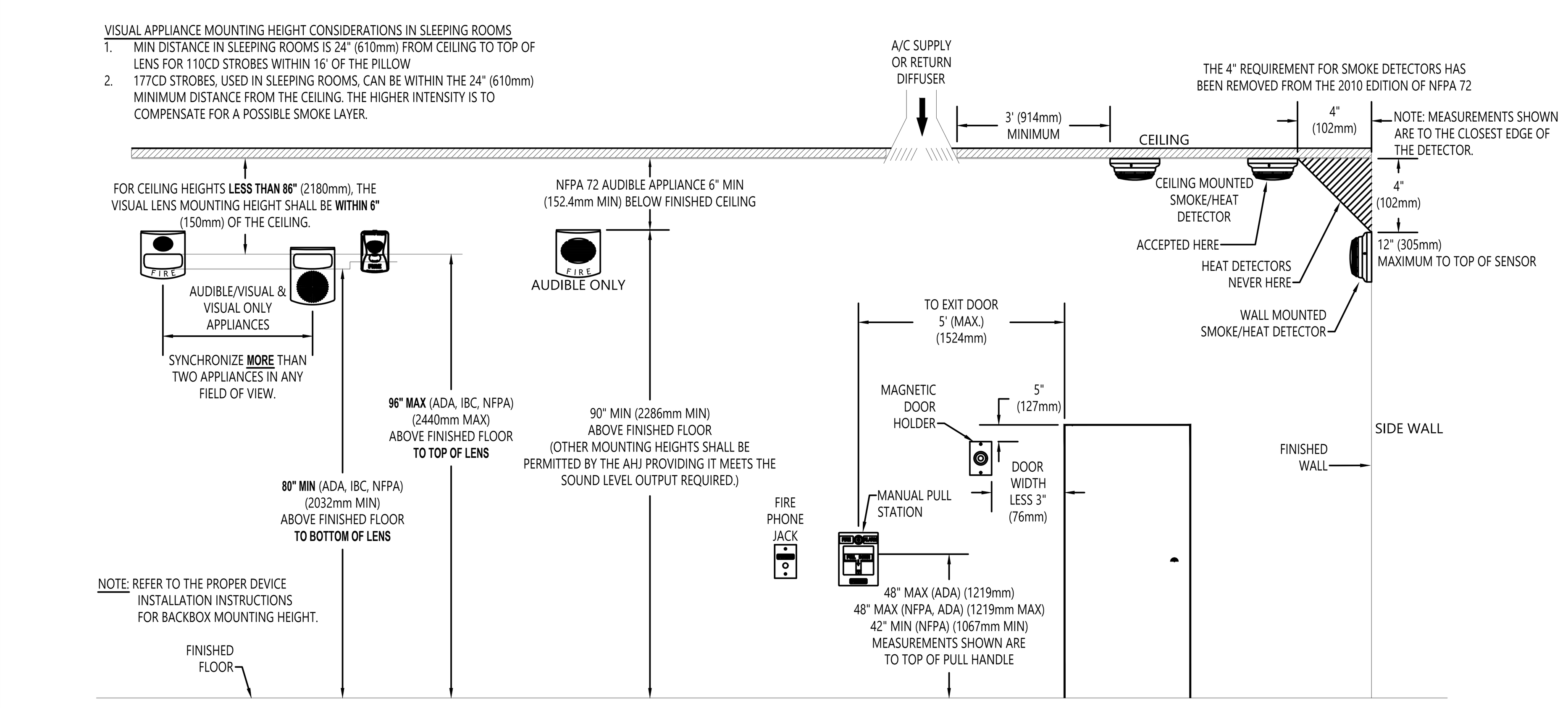
FIRE ALARM SYSTEM
FIRE ALARM RISER DIAGRAM
GOOD SAMARITAN - PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA-RIS-01

42" x 30"

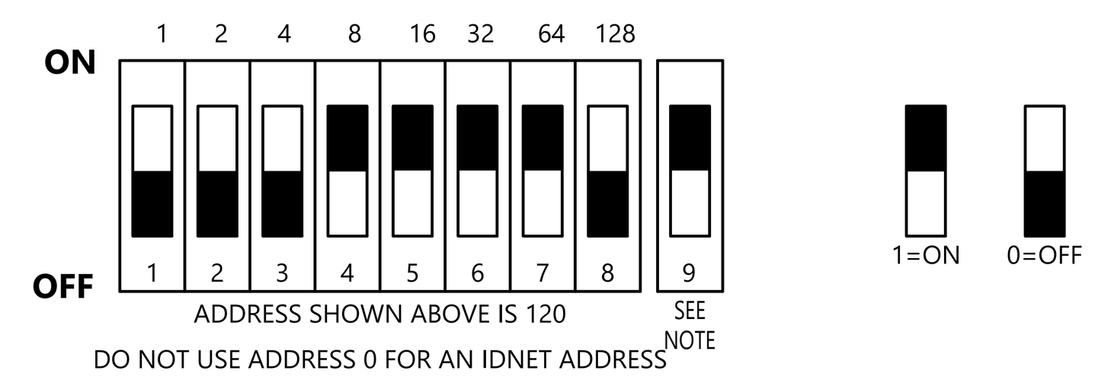
DEVICE MOUNTING HEIGHT REFERENCE

PER NFPA 72



DIP SWITCH SETTINGS - INITIATING

SIMPLEX IDNet

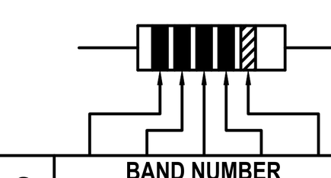


DIP SWITCHES 5 THRU 8 (columns); DIP SWITCHES 1 THRU 4 (rows)

0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

NOTE:
THE 4098-9771, -9794, -9795, -9798 SOUNDER BASES HAVE A 9-POSITION DIP SWITCH. THE FIRST EIGHT DIP SWITCHES SET THE SOUNDER BASE ADDRESS. DIP SWITCH POSITION 9 IS SET TO OFF OR ON DEPENDING UPON THE SOUNDER BASE POWER SOURCE. WHEN THE SOUNDER BASE IS CONNECTED TO A 24 VDC POWER SOURCE, DIP SWITCH POSITION 9 IS SET TO "OFF" AND THE 24 VDC POWER IS SUPERVISED BY THE SOUNDER BASE. WHEN THE SOUNDER BASE IS POWERED BY THE PANEL'S NOTIFICATION APPLIANCE CIRCUIT (NAC), DIP SWITCH POSITION 9 IS SET TO "ON" AND THE POWER IS SUPERVISED BY THE NAC AND NOT THE SOUNDER BASE. THE 4098-9770 AND -9797 BASES HAVE THE SAME LAYOUT, BUT DOESN'T OFFER SOUNDER FUNCTIONALITY. THEY USE AN 8-WAY DIP SWITCH ONLY.

END OF LINE RESISTOR CODES



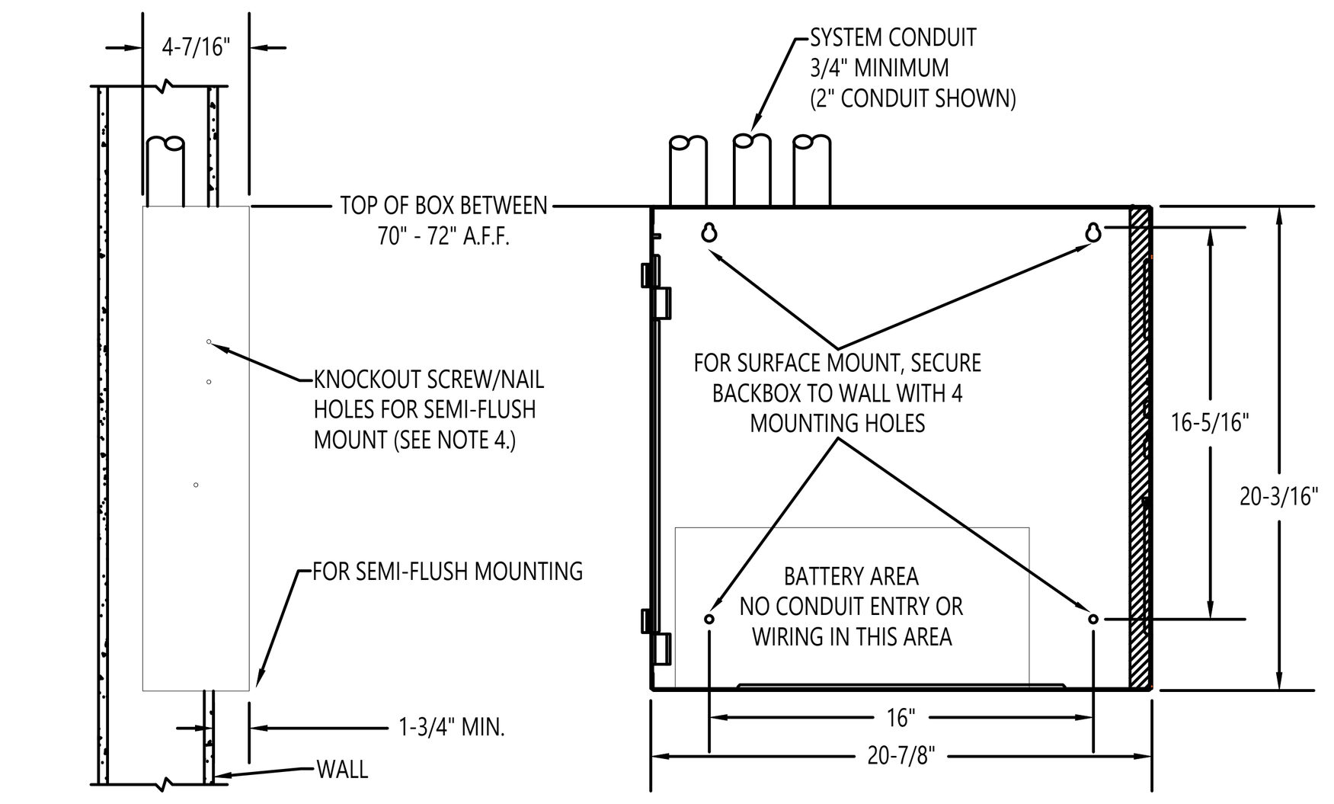
NOTE: REFER TO PANEL/MODULE AND DEVICE INSTALLATION INSTRUCTIONS FOR PROPER TERMINATIONS.

MODEL	REF. NUMBER	Ω	BAND NUMBER 3	2	3	4	5	WATTS	CIRCUIT TYPE	FIRE ALARM PANEL/MODULE
4081-9001	733-892	2.2K	RED	RED	RED	GLD	N/A	1/2	ANNUNCIATOR (4300)	4004, 4010 (TROUBLE)
4081-9002	733-893	3.3K	ORG	ORG	RED	GLD	N/A	1	N.O. INITIATING PULL, SMOKE, HEAT, WATERFLOW, TAMPER, ETC. 24 PT. I/O SWITCH SUPV.	4004*, 4004R, 4005*, 4006, 4100, 4120, 4100U, ZAMs 4605-7401, 4100 SERIES
4081-9003	733-896	4.7K	YEL	VT	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INIT., NOTIFICATION (DACT)	4090 IDNET IAM (EOLR) 2080-9024
4081-9004	733-886	6.8K	BLU	GRY	RED	GLD	N/A	1/2	N/O INITIATING PULL, SMOKE, HEAT, W.FLOW, TAMPER, ETC	4004, 4005, 4090-9001 IDNET IAM, 2190-9173 MAPNETII 2 PT I/O; 4-20MA ZAM (TROUBLE)
4081-9005	733-984	1.8K	BRN	GRY	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INITIATING (INLINE)	4090-9001 IDNET IAM
4081-9006	733-890	560	GRN	BLU	BRN	GLD	N/A	1	N.C. INITIATING (EOLR)	4005*, 4090-9001 IDNET IAM 4100, 4100U
4081-9007	733-891	1.2K	BRN	RED	RED	GLD	N/A	1	N.C. INITIATING (EOLR)	4005
4081-9008	733-894	10K	BRN	BLK	ORG	GLD	N/A	1/2	NOTIFICATION	4004, 4005, 4006, 4008, 4009, 4010, 4100, 4100U
4081-9009	733-912	20	RED	BLK	BLK	GLD	N/A	1	TO MR-101 RELAY COIL	4005 8 POINT I/O
4081-9010	733-973	1K	BRN	BLK	RED	GLD	N/A	1	N.C. INIT. (ACROSS CONTACTS); 24 PT. I/O (ACROSS CONTACTS; CURRENT LIMITED N.O. INIT. (IN SERIES WITH CONTACT)	4005*, 4090-9001 IDNET IAM; 4605-7401, 4100 SERIES; 4090-9001 IDNET IAM
4081-9011	733-974	100	BRN	BLK	BRN	GLD	N/A	1/2	ANNUNCIATOR (N2)	4006, 4008, 4010
4081-9012	733-985	22K	RED	RED	ORG	GLD	N/A	1/2	SPEAKER CIRCUIT	4003
4081-9013	734-086	4.99K	YEL	WHT	WHT	BRN	BRN	1/2		
4081-9014	734-092	2.4K	RED	YEL	RED	GLD	N/A	1/2	N.C. INITIATING (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9015	734-093	1.5K	BRN	GRN	RED	GLD	N/A	1/2	CURRENT LIMITED N.O. INIT. (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9016	734-149	150K	BRN	GRN	YEL	GLD	N/A	1/2		
4081-9017	734-171	3.9K	ORG	WHT	RED	GLD	N/A	1		
4081-9018	734-168	10K	BRN	BLK	ORG	GLD	N/A	1	70VRMS CONSTANT SUPV. NAC	4100-1260
	378-090	8.2K	GRY	RED	RED	GLD	N/A	1/2	SECURITY MONITORING (EOLR)	4100, 4100U
	378-046	5.6K	GRN	BLU	RED	GLD	N/A	1/2	N.O. SECURITY MON. (SERIES)	4100, 4100U
	378-069	12K	BRN	RED	ORG	GLD	N/A	1/2	N.C. SECURITY MON. (SHUNT)	4100, 4100U

* USE WITH RETROFIT OR HIGH CURRENT MODULE

FACP BACKBOX INSTALLATION

SIMPLEX 4007es SERIES



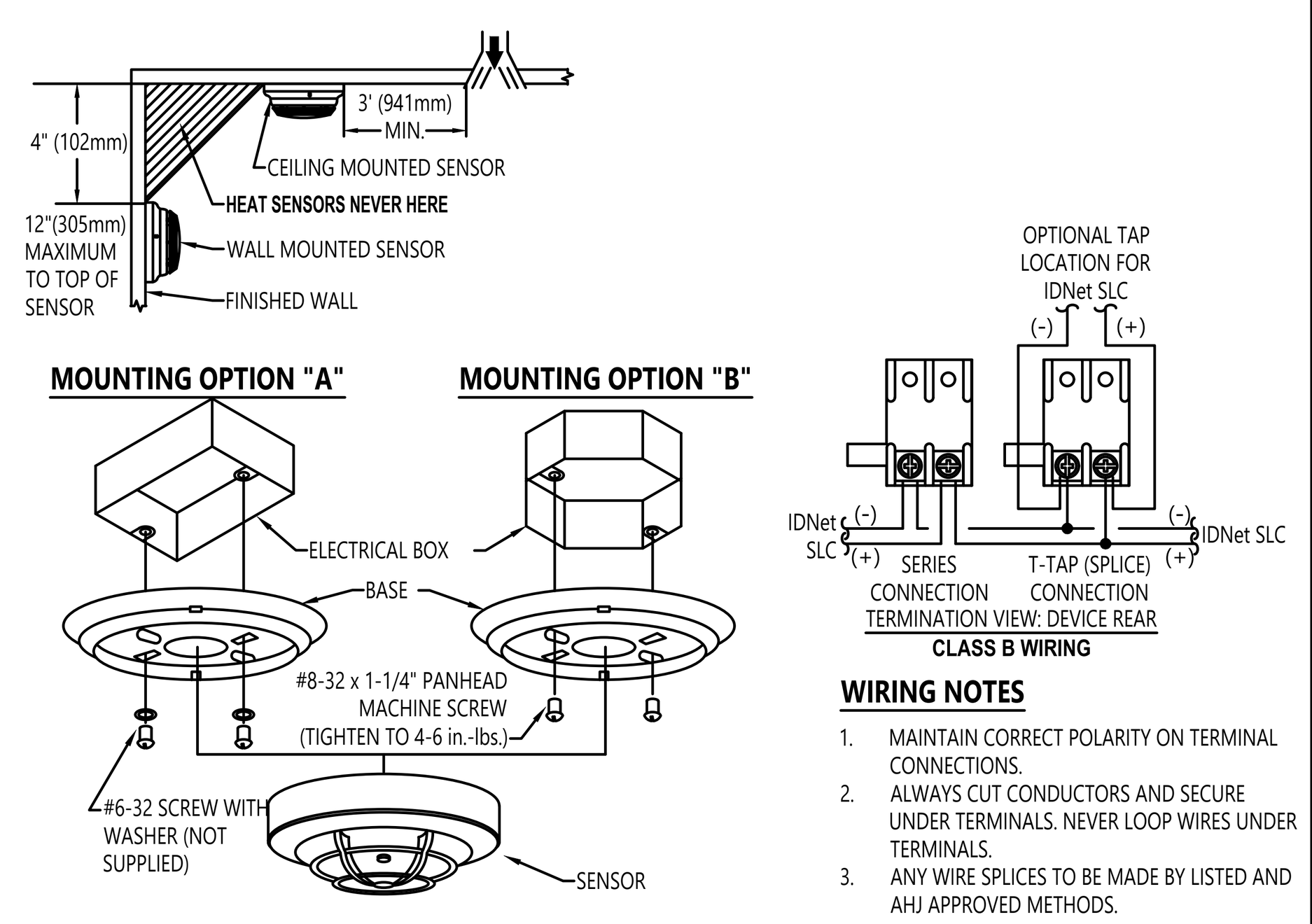
MOUNTING NOTES

1. REMOVE ELECTRONICS AND STORE IT IN A SAFE DRY AREA.
2. NO KNOCKOUTS PROVIDED. CUT CONDUIT/SERVICE ENTRANCE OPENINGS. REFER TO ILLUSTRATION FOR PROPER LOCATIONS. CONDUIT PROTRUSION INTO BOX 1/2" MAX.
3. MOUNT BOX TO WALL: BOX MUST BE LEVEL AND PLUMB. FOR SURFACE MOUNT USE TEAR DROP AND CLEARANCE HOLES ON BACK SURFACE.
4. FOR SEMI-FLUSH MOUNT: USE KNOCKOUTS ON SIDE WALL AND SCREW OR NAIL BOX TO WALL STUDS.
5. IF PRESENT, USE WIRE MANAGEMENT BRACKETS ON BOX SIDES TO SECURE WIRE RUNS.
6. DO NOT LOCATE POWER-LIMITED WIRING IN THE SHADED AREAS OF THE BACKBOX, THIS AREA IS RESERVED FOR NON-POWER LIMITED CIRCUITRY SUCH AS AC POWER, BATTERIES AND CITY CONNECTION.
7. USE SEPARATE CONDUIT ENTRANCES FOR POWER LIMITED AND NON-POWER LIMITED WIRING.

FOR ADDITIONAL INFORMATION, DOWNLOAD DATA SHEET S4007-0002 FROM HTTP://WWW.SIMPLEX-FIRE.COM

STANDARD SENSOR BASE

SIMPLEX 4098-9792



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

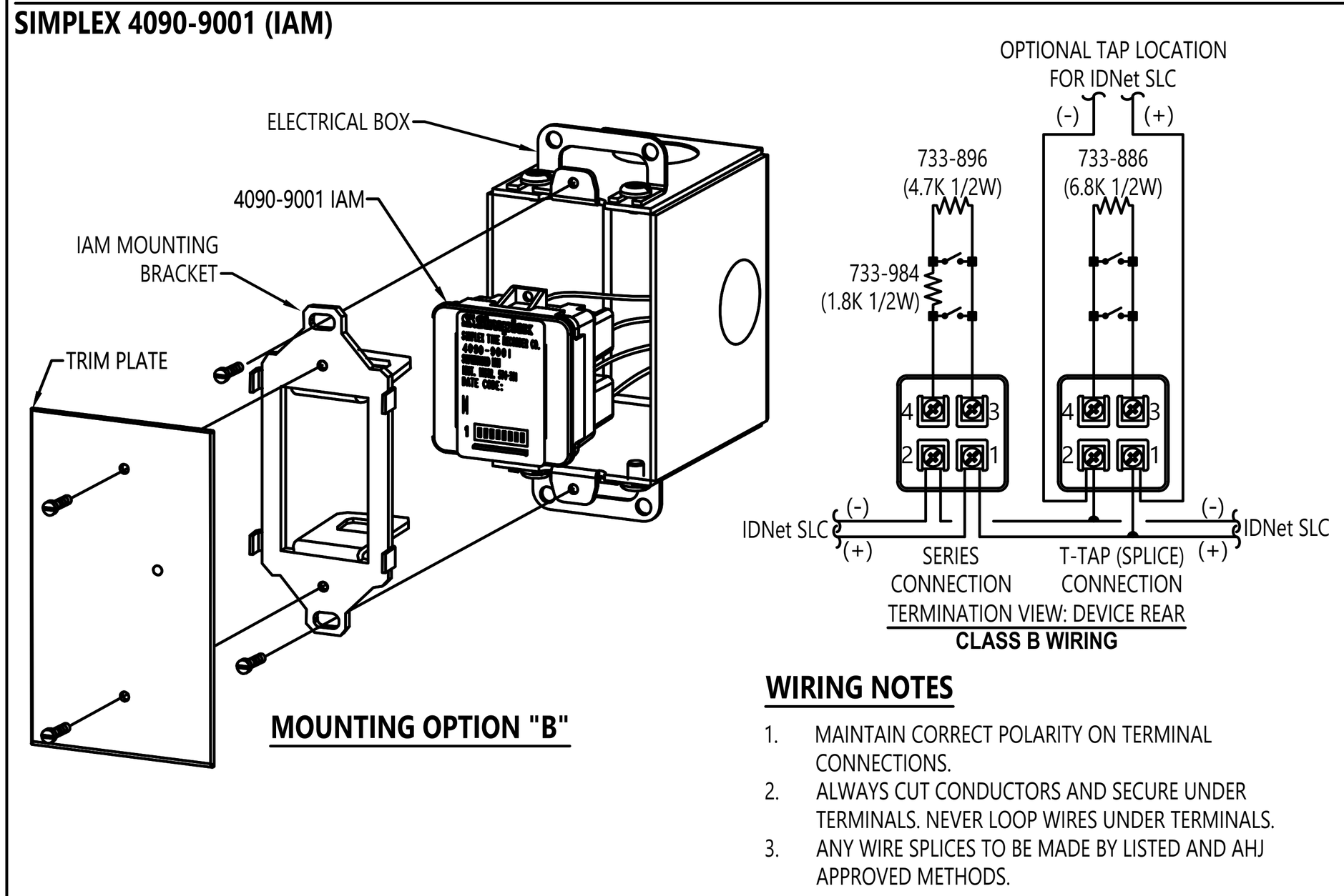
MOUNTING OPTIONS

OPTION [1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/8" (54mm) DEEP - FLUSH MOUNT	BY OTHERS
B	4" (102mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM - FLUSH MOUNT	BY OTHERS
C	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SIMPLEX 4098-9832 ADAPTER KIT	BOX BY OTHERS, 4098-9832 ORDERED SEPARATELY
D	4" (102mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-0019 FROM HTTP://WWW.SIMPLEX-FIRE.COM

ADDRESSABLE INPUT MODULE

SIMPLEX 4090-9001 (IAM)



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

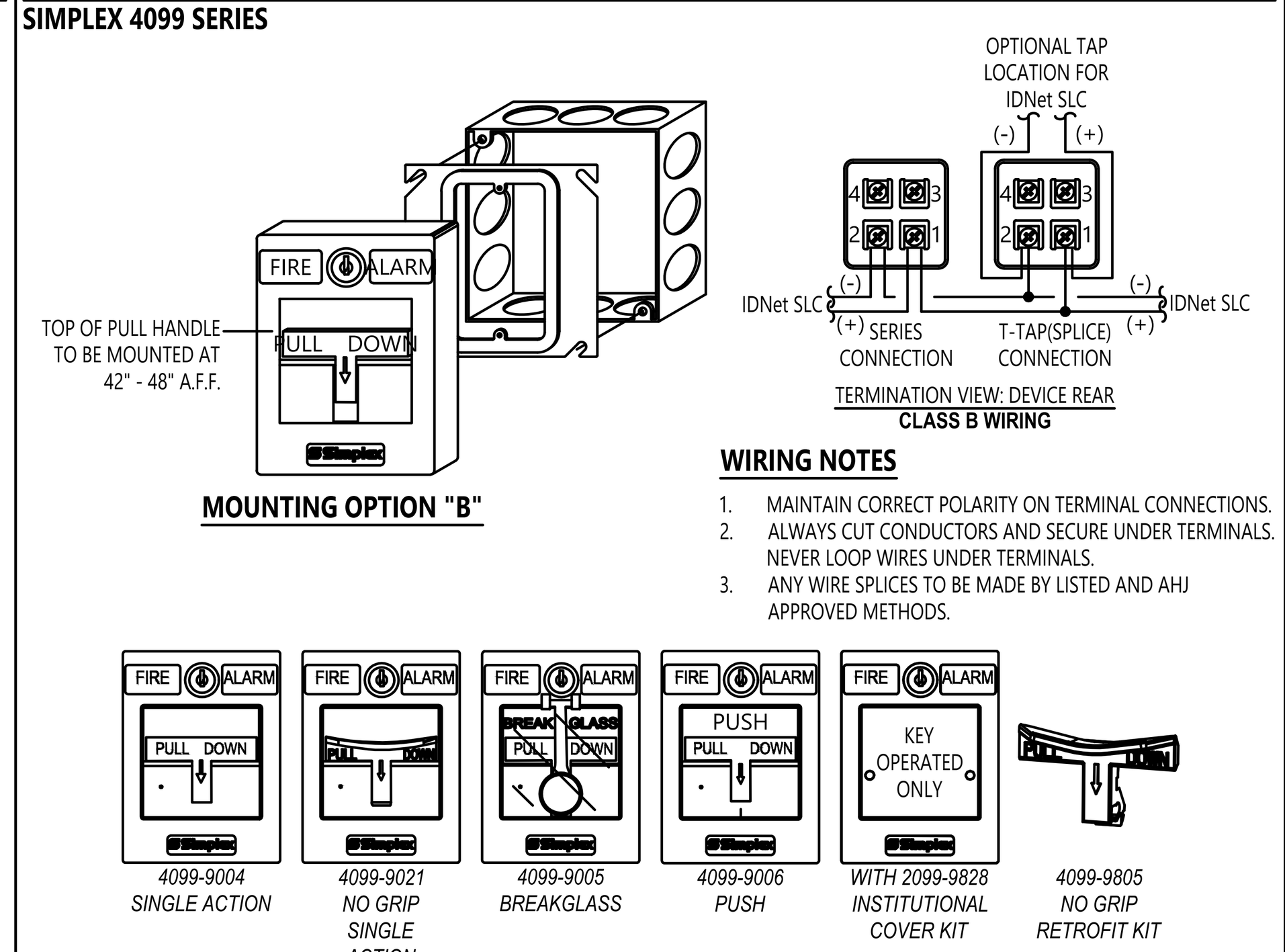
MOUNTING OPTIONS

OPTION [1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SINGLE GANG COVER PLATE	BY OTHERS
B	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4090-9810 IAM MOUNTING BRACKET AND SIMPLEX 4090-9806 TRIM PLATE FOR SEMI-FLUSH MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY
C	SINGLE GANG BOX, 2-1/2" (64mm) DEEP WITH SIMPLEX 4090-9810 IAM MOUNTING BRACKET AND SIMPLEX 4090-9807 TRIM PLATE FOR SURFACE MOUNTED BOX	BOX BY OTHERS, PLATES ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4090-0001 FROM HTTP://WWW.SIMPLEX-FIRE.COM

ADDRESSABLE PULL STATIONS

SIMPLEX 4099 SERIES



WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

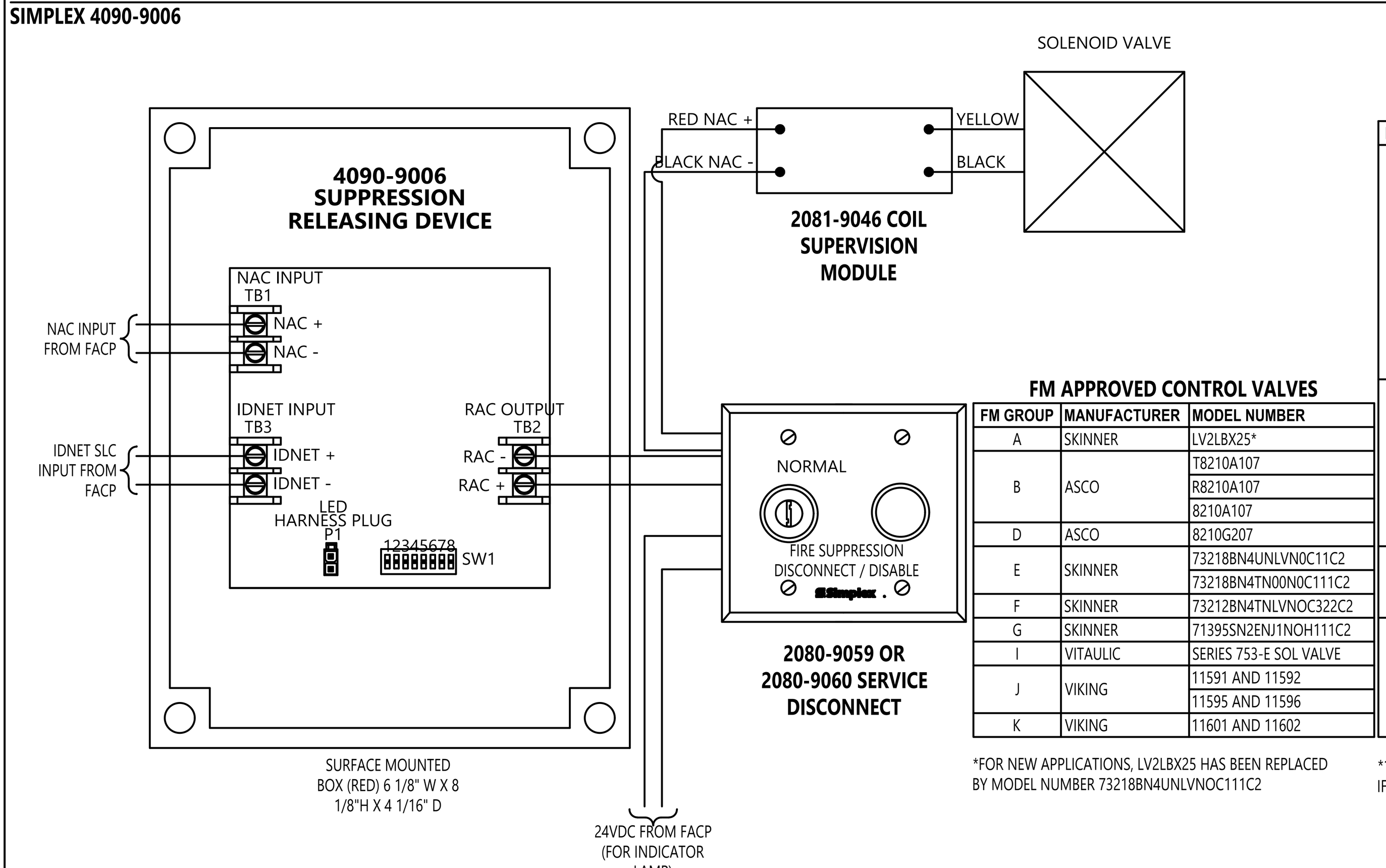
MOUNTING OPTIONS

OPTION [1]	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" (64mm) DEEP	BY OTHERS
B	4" (102mm) SQUARE BOX, 2-1/8" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY OTHERS
C	SIMPLEX 2975-9022 - 5H x 3-7/8"W x 2-3/16"D (127mm x 98mm x 56mm)	ORDERED SEPARATELY
D	SIMPLEX 2975-9178 - 5-3/4"H x 3-7/8"W x 2-3/16"D (132mm x 102mm x 56mm)	ORDERED SEPARATELY

1. FOR ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4099-0005 FROM HTTP://WWW.SIMPLEX-FIRE.COM

SUPPRESSION RELEASE PERIPHERAL

SIMPLEX 4090-9006



FM APPROVED CONTROL VALVES

FM GROUP	MANUFACTURER	MODEL NUMBER
A	SKINNER	LV2LBX25*
B	ASCO	T8210A107
		R8210A107
		8210A107
D	ASCO	8210G207
E	SKINNER	73218BN4UNLVN0C11C2
		73218BN4TN00N0C111C2
F	SKINNER	73212BN4TNLVNOC322C2
G	SKINNER	71395SN2ENJ1NOH111C2
I	VITAULIC	SERIES 753-E SOL VALVE
J	VIKING	11591 AND 11592
		11595 AND 11596
K	VIKING	11601 AND 11602

*FOR NEW APPLICATIONS, LV2LBX25 HAS BEEN REPLACED BY MODEL NUMBER 73218BN4UNLVNOC111C2

COMPATIBLE UL LISTED VALVES AND ACTUATORS

MANUFACTURER	MODEL NUMBER
ANSUL	*AUTOMAN II-C ASSY. (SOLENOID 17728; COIL 25924)
	*AUTOMAN II-C EXPLOSION-PROOF RELEASING DEVICE (SOLENOID 31492; COIL 31438)
	*AUTOMAN II-C ASSY. (SOLENOID 17728; COIL 25924)
	SOLENOID ELEC. ACTUATOR (SOLENOID 7311; COIL 73097)
	*CV90 HF ELEC. ACTUATOR 73327 (MAY USE 73606 RES.)
	LP CO2 WITH ASCO SOLENOID 422934
	LP CO2 DOUBLE ACTION 24VDC SOLENOID 430948
	LP CO2 3-WAY SELECTOR VALVE SOLENOID 433419
	ELECTRIC ACTUATOR 24VDC SOLENOID 570537
ASCO	8210A107 (097617-005D COIL) 1/2" NPS, 5/8" ORIFICE
	8210G207 (238310 COIL) 1/2" NPS, 1/2" ORIFICE
	8211A107 (097617-005D COIL) 24VDC
	HV2628571 (23810 COIL) N.C. 1/2" NPS, 1/2" ORIFICE
	HV2648581 (23810 COIL) N.O. 1/2" NPS, 1/2" ORIFICE
	R8210A107 (097617-005D COIL) 1/2" NPS, 5/8" ORIFICE
	T8210A107 (097617-005D COIL) 1/2" NPS, 5/8" ORIFICE
PYRO-CHEM	ECH ELECTRICAL CONTROL HEAD (551201)
	EXPLOSION-PROOF ELECTRIC ACTUATOR (570147)
	REMOVABLE ELECTRIC ACTUATOR (570209) 0.2A
SKINNER	71395SN2ENJ1NOH111C2 (SKINNER COIL H111C2)
	73212BN4TN00NOC111C2 (SKINNER COIL C111C2)
	73212BN4TNLVNOC322C2 (SKINNER COIL C322C2)
	73218BN4UNLVNOH111C2 (SKINNER COIL H111C2)
	73218BN4UNLVNOC111C2 (SKINNER COIL C111C2)

*12VDC COILS, EITHER WIRE TWO IN SERIES FOR 24VDC ACTIVATION, OR, IF AVAILABLE FROM THE MANUFACTURER, USE SERIES RESISTOR.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

42" x 30"

Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
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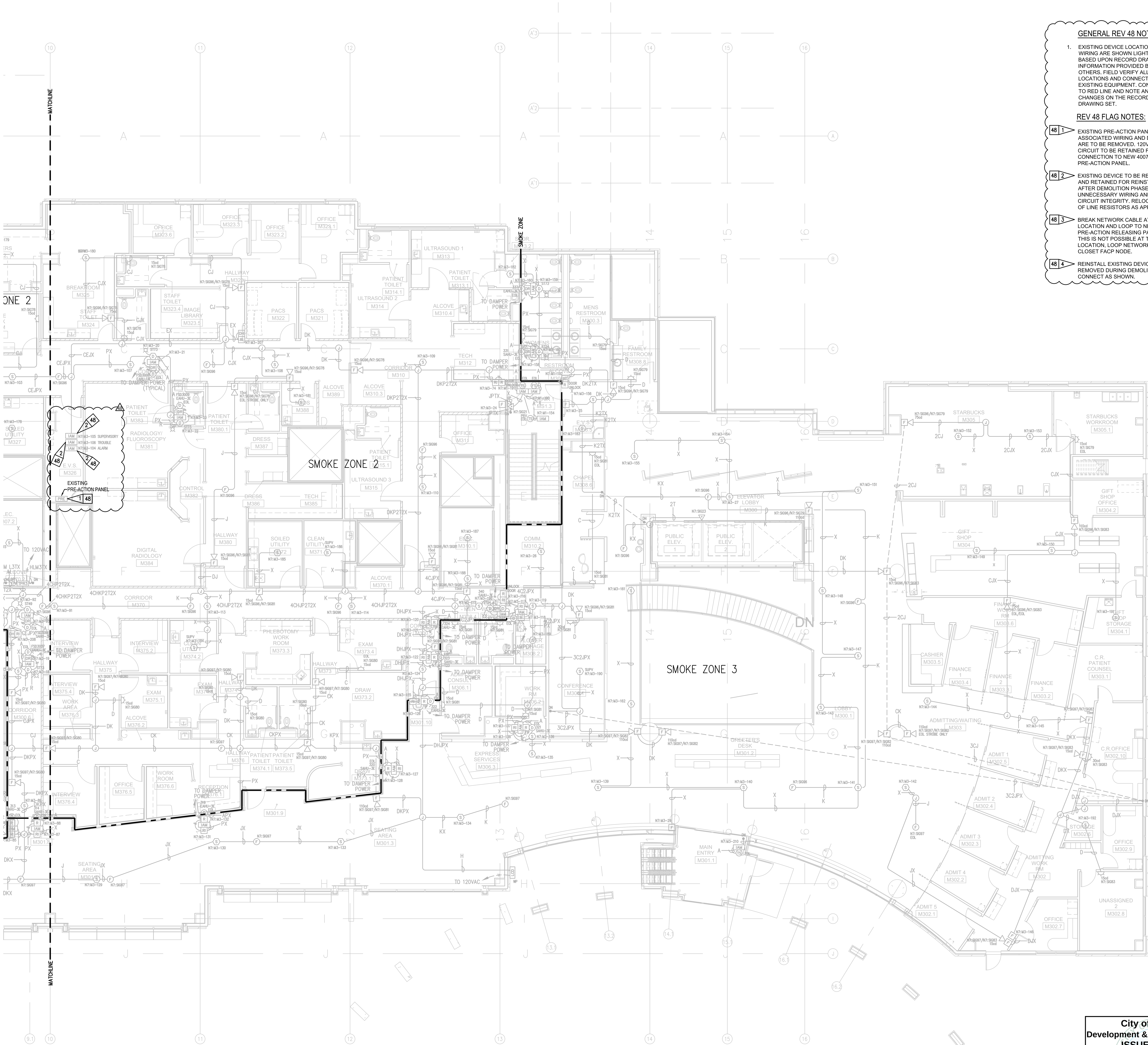
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
DETAIL SHEET (T.I.)
GOOD SAMARITAN – PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

ELECTRONIC DRAWING NAME: FA-COVER

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA-DET-02



LEVEL 3 EAST FLOOR DEMO PLAN

SCALE 1/8"=1'-0"

GENERAL REV 48 NOTES:

1. EXISTING DEVICE LOCATIONS AND WIRING ARE SHOWN LIGHT AND ARE BASED UPON RECORD DRAWING INFORMATION PROVIDED BY OTHERS. FIELD VERIFY ALL LOCATIONS AND CONNECTIONS TO EXISTING EQUIPMENT. CONTRACTOR TO RED LINE AND NOTE ANY AND ALL CHANGES ON THE RECORD DRAWING SET.

REV 48 FLAG NOTES:

48-1 EXISTING PRE-ACTION PANEL AND ALL ASSOCIATED WIRING AND DEVICES ARE TO BE REMOVED. 120VAC CIRCUIT TO BE RETAINED FOR CONNECTION TO NEW 4007ES PRE-ACTION PANEL.

48-2 EXISTING DEVICE TO BE REMOVED AND RETAINED FOR REINSTALLATION AFTER DEMOLITION PHASE. REMOVE UNNECESSARY WIRING AND MAINTAIN CIRCUIT INTEGRITY. RELOCATED END OF LINE RESISTORS AS APPLICABLE.

48-3 BREAK NETWORK CABLE AT THIS LOCATION AND LOOP TO NEW 4007ES PRE-ACTION RELEASING PANEL. IF THIS IS NOT POSSIBLE AT THIS LOCATION, LOOP NETWORK CABLE TO CLOSET FACP NODE.

48-4 REINSTALL EXISTING DEVICE REMOVED DURING DEMOLITION. CONNECT AS SHOWN.

Legend

Symbol	Description	Part #	Backbox
F (speaker/strobe)	Multicandela Wall Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9153	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F c	Multicandela Ceiling Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9154	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
	Multicandela Wall Strobe - White * subscript indicates circuit # and candela setting	4906-9103	4" sq by EC
	Multicandela Ceiling Strobe - White * subscript indicates circuit # and candela setting	4906-9102	4" sq by EC
S	Wall Speaker - White * subscript indicates circuit #	4902-9717	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
S c	Ceiling Speaker - White * subscript indicates circuit #	4902-9721	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F	Addressable Manual Station * subscript indicates device address	4099-9003 w/ STI1100 Cover	4" sq 2 1/8" deep w/ sg ring by EC
P	Addressable Manual Station Suppresion * subscript indicates device address	4099-9015 w/ 4099-9802 Label Kit	4" sq 2 1/8" deep w/ sg ring by EC
S	TrueAlarm Smoke Sensor * subscript indicates device address/ SUPV indicates supervisory device	4098-9714 w/ 4098-9792 Base	4" oct by EC
H	TrueAlarm Heat Sensor * subscript indicates device address	4098-9733 w/ 4098-9792 Base	4" oct by EC
H FT	Heat Detector - 135FT	ED-283B-PL	4" oct by EC
D	TrueAlarm Duct Sensor * subscript indicates device address and sampling tube size	4098-9756	self-contained
	Remote LED w/Test	2098-9806	sg by EC
DR	Duct Detector Relay	4098-9843	4"sq w/sg & cover by EC
BT	Beam Smoke Detector - Transmitter	BEAM1224	Surface Box w/BEAMSMK
BR	Beam Smoke Detector - Reflector		Surface
MZ	Monitor ZAM * subscript indicates device address	4090-9101	4"sq 2 1/8" deep w/ 2-gang cover by EC
IAM	Supervised IAM * subscript indicates device address	4090-9001	4"sq w/sg & cover by EC
FS	Flow Switch	By Others	By Others
PS	Pressure Switch	By Others	By Others
LA	Low Air Switch	By Others	By Others
TS	Tamper Switch	By Others	By Others
PIV	Post Indicator Valve	By Others	By Others
CS	Coil Supervision Module	2081-9046	
	Pre-Action Solenoid	By Others	By Others
DH	Door Holders	By Others	
MD	Suppression Mech. Disconnect	2080-9060	Included
RI	Relay IAM * subscript indicates device address	4090-9002	4"sq 2 1/8" deep w/ 2-gang cover by EC
R	Remote Relay	2088-9008	self-contained
	FFT Jack	2084-9001	sg by EC
FFT	FFT Cabinet	2084-9026 w/ (10) 2084-9024 handsets	23.5"H x 23.5"W x 4.0"D
SCP	Smoke Control Panel	CEF-L-GR-GP6	41"H x 29"W x 4.75"D
SRP	Suppression Releasing Peripheral	4090-9006	8.125"H x 6.125"W x 4"D Surface Mount
PTR	Printer	4190-9013	Table Top
LCD	LCD Annunciator	4603-9101	6-gang 3.5"deep by EC or RSA-WP-SA
TC	Terminal Cabinet	SSU00661	13"H x 23.5"W x 5.5"D
TPR	Transponder Panel	4100-9601	56"H x 24"W x 8.375"D 2975-9432
FACP	Fire Alarm Control Panel	4100-9114	56"H x 24"W x 8.375"D 2975-9426
NDU	Network Display Unit	4100-9151	56"H x 24"W x 8.375"D 2975-9426
PRE	4007ES Pre-Action Panel	4007-9101	16.25"H x 13.5"W x 5.75"D

Wire Code

Letter	Qty	Color/Type	Size	Function
A	2	Black/Orange TFN	16	Zone
C	2	Red/Blue THHN	14	Horn/Strobe
D	4	(2) Red/(2) Blue THHN	14	Horn/Strobe Loop
E	2	Brown/Yellow THHN	14	Door Holders
F	2	Orange THHN	14	Fan Shutdown
H	1	WestPenn D975	18	Serial Communication
	2	Red/Black THHN	14	
J	1	WestPenn 991	16	Speaker
K	2	WestPenn 991	16	Speaker Loop
L	1	WestPenn 5220FZ	16	Local Network Connection**
	1	WestPenn 5220FZ	16	
M	1	WestPenn 5220FZ	16	Miniplex Transponder**
	1	WestPenn 5220FZ	16	
	1	WestPenn 5120UZ	14	
N	2	WestPenn D975	18	Network Connection
P	2	Red/Black THHN	14	24VDC Power
R	2	Blue/White TFN	16	Remote LED w/Test
	2	Pink TFN	16	
T	1	WestPenn 991	16	Fire Fighter Telephone
V	1	WestPenn D977	18	Printer
X	1	WestPenn D975	18	Addressable Data Line

** 2-hr cable for survivablity

STROBE AND SPEAKER IDENTIFICATION

25/25 — SPEAKER CIRCUIT / STROBE CIRCUIT

TAP SPEAKER AT 25V 1/2 WATT UNLESS OTHERWISE NOTED.

ADDRESSABLE DETECTOR IDENTIFICATION

Nx:Mx–x — NODE # / DEVICE # / IDNET CHANNEL #

City of Puyallup
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Johnson Controls
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Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 8TH FLR TI RECORD DRAWINGS	RSC		600595222
46	1/23/19	DAILY PHARMACY	RSC	JWB	610318224
	9/20/19	DAILY PHARMACY RECORD DRAWINGS	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

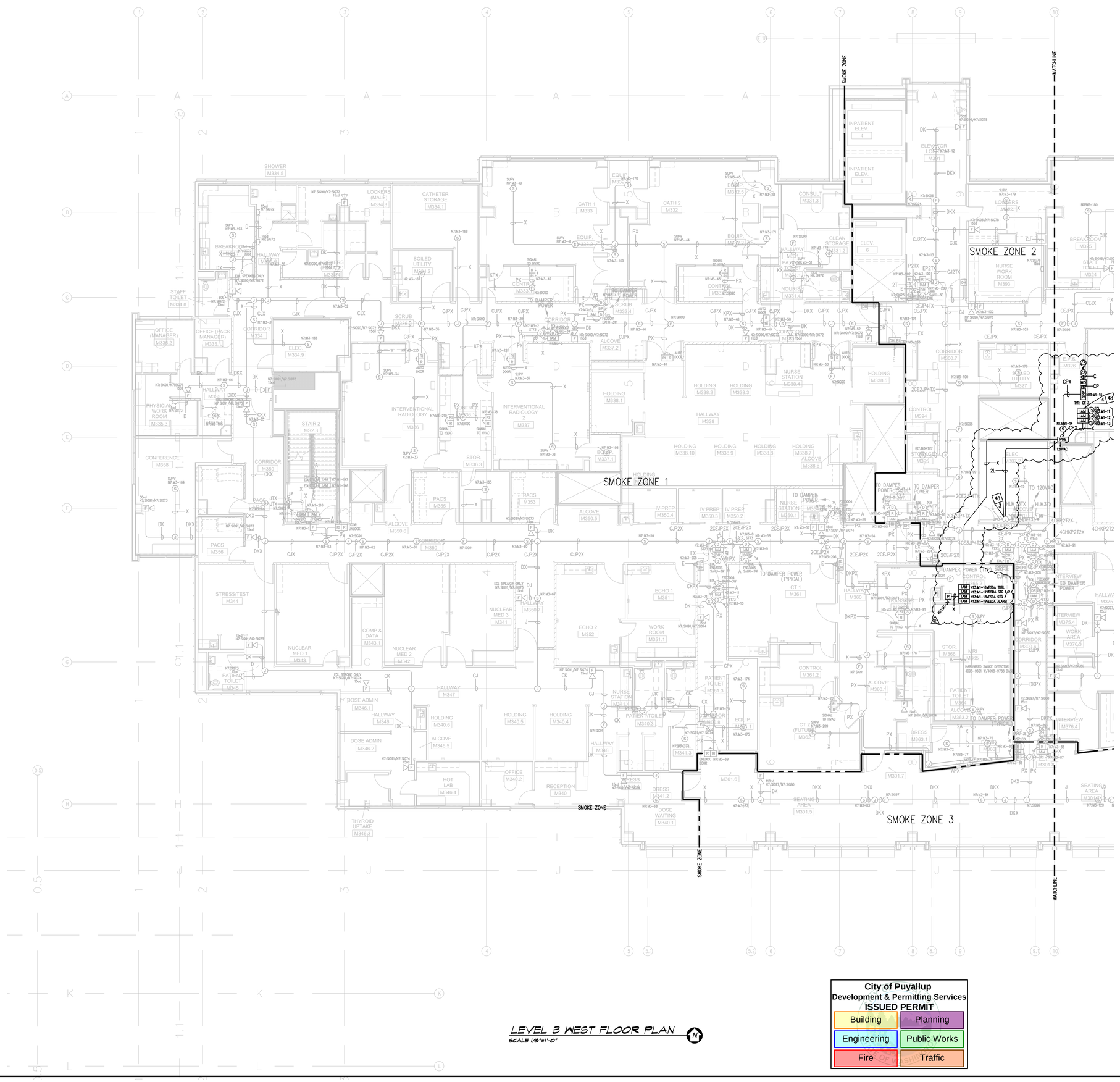
DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #228884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
LEVEL 3 EAST FLOOR DEMO PLAN
GOOD SAMARITAN – PATIENT CARE TOWER

401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
ELECTRONIC DRAWING NAME: FA-LEVEL 3-D
SHEET NUMBER: FA-LEV3-E-D

42" x 30"



Legend

Symbol	Description	Part #	Backbox
F	Multicandela Wall Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9153	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F c	Multicandela Ceiling Speaker/Strobe - White * subscript indicates circuit # and candela setting	4906-9154	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
	Multicandela Wall Strobe - White * subscript indicates circuit # and candela setting	4906-9103	4" sq by EC
	Multicandela Ceiling Strobe - White * subscript indicates circuit # and candela setting	4906-9102	4" sq by EC
S	Wall Speaker - White * subscript indicates circuit #	4902-9717	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
S c	Ceiling Speaker - White * subscript indicates circuit #	4902-9721	5" sq 2.875" deep w/ ext ring 4"sq adapter by EC
F	Addressable Manual Station * subscript indicates device address	4099-9003 w/ ST11100 Cover	4" sq 2 1/8" deep w/ sg ring by EC
P	Addressable Manual Station Suppresion * subscript indicates device address	4099-9015 w/ 4099-9802 Label Kit	4" sq 2 1/8" deep w/ sg ring by EC
S	TrueAlarm Smoke Sensor * subscript indicates device address/ SUPV indicates supervisory device	4098-9714 w/ 4098-9792 Base	4" oct by EC
H	TrueAlarm Heat Sensor * subscript indicates device address	4098-9733 w/ 4098-9792 Base	4" oct by EC
H FT	Heat Detector - 135FT	ED-283B-PL	4" oct by EC
D	TrueAlarm Duct Sensor * subscript indicates device address and sampling tube size	4098-9756	self-contained
	Remote LED w/Test	2098-9806	sg by EC
DR	Duct Detector Relay	4098-9843	4"sq w/sg & cover by EC
BT BR	Beam Smoke Detector - Transmitter Beam Smoke Detector - Reflector	BEAM1224	Surface Box w/BEAMSMK Surface
M	Monitor ZAM * subscript indicates device address	4090-9101	4"sq 2 1/8" deep w/ 2-gang cover by EC
IAM	Supervised IAM * subscript indicates device address	4090-9001	4"sq w/sg & cover by EC
FS	Flow Switch	By Others	By Others
PS	Pressure Switch	By Others	By Others
LA	Low Air Switch	By Others	By Others
TS	Tamper Switch	By Others	By Others
PIV	Post Indicator Valve	By Others	By Others
SV	Coil Supervision Module	2081-9046	
A	Pre-Action Solenoid	By Others	By Others
DH	Door Holders	By Others	
MO	Suppression Mech. Disconnect	2080-9060	Included
RI	Relay IAM * subscript indicates device address	4090-9002	4"sq 2 1/8" deep w/ 2-gang cover by EC
R	Remote Relay	2088-9008	self-contained
	FFT Jack	2084-9001	sg by EC
FFT	FFT Cabinet	2084-9026 w/ (10) 2084-9024 handsets	23.5"H x 23.5"W x 4.0"D
SCP	Smoke Control Panel	CEF-L-GR-GP6	41"H x 29"W x 4.75"D
SRP	Suppression Releasing Peripheral	4090-9006	8.125"H x 6.125"W x 4"D Surface Mount
PTR	Printer	4190-9013	Table Top
LCD	LCD Annunciator	4603-9101	6-gang 3.5"deep by EC or RSA-WP-SA
TC	Terminal Cabinet	SSU00661	13"H x 23.5"W x 5.5"D
TPR	Transponder Panel	4100-9601	56"H x 24"W x 8.375"D 2975-9432
FACP	Fire Alarm Control Panel	4100-9114	56"H x 24"W x 8.375"D 2975-9426
NDU	Network Display Unit	4100-9151	56"H x 24"W x 8.375"D 2975-9426
PRE	4007ES Pre-Action Panel	4007-9101	16.25"H x 13.5"W x 5.75"D

Wire Code

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H	1	WestPenn D975	18	Serial Communication
	2	Red/Black THHN	14	
J	1	WestPenn 991	16	Speaker
K	2	WestPenn 991	16	Speaker Loop
L	1	WestPenn 5220FZ	16	Local Network Connection**
	1	WestPenn 5220FZ	16	
M	1	WestPenn 5220FZ	16	Miniplex Transponder**
	1	WestPenn 5220FZ	16	
	1	WestPenn 5120UZ	14	
N	2	WestPenn D975	18	Network Connection
P	2	Red/Black THHN	14	24VDC Power
R	2	Blue/White TFN	16	Remote LED w/Test
	2	Pink TFN	16	
T	1	WestPenn 991	16	Fire Fighter Telephone
V	1	WestPenn D977	18	Printer
X	1	WestPenn D975	18	Addressable Data Line

** 2-hr cable for survivablity

GENERAL REV 48 NOTES:

1. EXISTING DEVICE LOCATIONS AND WIRING ARE SHOWN LIGHT AND ARE BASED UPON RECORD DRAWING INFORMATION PROVIDED BY OTHERS. FIELD VERIFY ALL LOCATIONS AND CONNECTIONS TO EXISTING EQUIPMENT. CONTRACTOR TO RED LINE AND NOTE ANY AND ALL CHANGES ON THE RECORD DRAWING SET.

REV 48 FLAG NOTES:

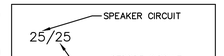
48 1 EXISTING PRE-ACTION PANEL AND ALL ASSOCIATED WIRING AND DEVICES ARE TO BE REMOVED. 120VAC CIRCUIT TO BE RETAINED FOR CONNECTION TO NEW 4007ES PRE-ACTION PANEL.

48 2 EXISTING DEVICE TO BE REMOVED AND RETAINED FOR REINSTALLATION AFTER DEMOLITION PHASE. REMOVE UNNECESSARY WIRING AND MAINTAIN CIRCUIT INTEGRITY. RELOCATED END OF LINE RESISTORS AS APPLICABLE.

48 3 BREAK NETWORK CABLE AT THIS LOCATION AND LOOP TO NEW 4007ES PRE-ACTION RELEASING PANEL. IF THIS IS NOT POSSIBLE AT THIS LOCATION, LOOP NETWORK CABLE TO CLOSET FACP NODE.

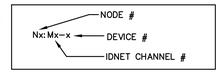
48 4 REINSTALL EXISTING DEVICE REMOVED DURING DEMOLITION. CONNECT AS SHOWN.

STROBE AND SPEAKER IDENTIFICATION



TAP SPEAKER AT 25V 1/2 WATT UNLESS OTHERWISE NOTED.

ADDRESSABLE DETECTOR IDENTIFICATION



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

LEVEL 3 WEST FLOOR PLAN
SCALE 1/8"=1'-0"

42" x 30"

Johnson Controls
9520 10th Avenue South, Suite 100
Seattle, WA 98108
SALES: 206-291-1400
SERVICE: 206-291-1411

NO.	DATE	REVISION DESCRIPTION	DRAFTER	ENGINEER	PROJECT #
	8/28/18	PATIENT CARE TOWER 7TH & 8TH FLR TI RECORD DRAWINGS	RSC		600595222
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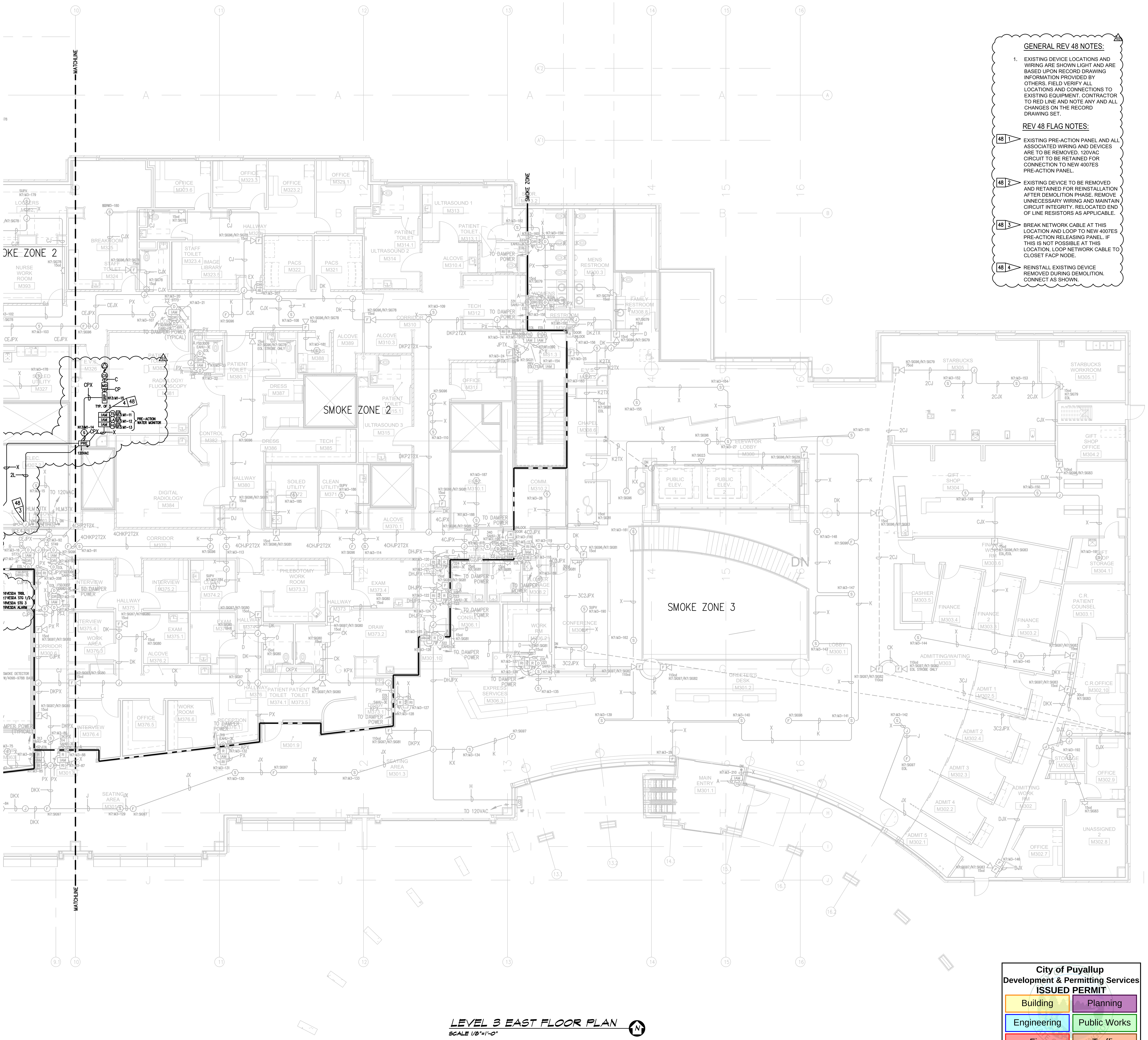
	9/20/19	DALLY PHARMACY RECORD DRAWINGs	RSC		610318224
47	9/21/22	EGRESS DOORS	DAP	EQB	650169145
48	4/12/23	MRI PRE-ACTION PANEL UPGRADE	ARH	EQB	650375924

DRAWINGS REVIEWED BY:
Eric Beck, CET
NICET #232884
Fire Alarm Systems, Level III

FIRE ALARM SYSTEM
LEVEL 3 WEST FLOOR PLAN
GOOD SAMARITAN – PATIENT CARE TOWER
401 15TH AVENUE SE
PUYALLUP, WA 98371

APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
SHEET NUMBER: FA-LEV3-W

ELECTRONIC DRAWING NAME: FA-LEVEL 3



LEVEL 3 EAST FLOOR PLAN
SCALE 1/8"=1'-0"

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48/3 BREAK NETWORK CABLE AT THIS LOCATION AND LOOP TO NEW 4007ES PRE-ACTION RELEASING PANEL. IF THIS IS NOT POSSIBLE AT THIS LOCATION, LOOP NETWORK CABLE TO CLOSET FACP NODE.

48/4 REINSTALL EXISTING DEVICE REMOVED DURING DEMOLITION. CONNECT AS SHOWN.

Legend

Symbol	Description	Part #	Backbox
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	Multicandela Ceiling Strobe - White * subscript indicates circuit # and candela setting	4906-9102	4" sq by EC
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S	TrueAlarm Smoke Sensor * subscript indicates device address/ SUPV indicates supervisory device	4098-9714 w/ 4098-9792 Base	4" oct by EC
H	TrueAlarm Heat Sensor * subscript indicates device address	4098-9733 w/ 4098-9792 Base	4" oct by EC
H FT	Heat Detector - 135FT	ED-283B-PL	4" oct by EC
D	TrueAlarm Duct Sensor * subscript indicates device address and sampling tube size	4098-9756	self-contained
	Remote LED w/Test	2098-9806	sg by EC
DR	Duct Detector Relay	4098-9843	4"sq w/sg & cover by EC
BT	Beam Smoke Detector - Transmitter	BEAM1224	Surface Box w/BEAMSMK
BR	Beam Smoke Detector - Reflector		Surface
MZ	Monitor ZAM * subscript indicates device address	4090-9101	4"sq 2 1/8" deep w/ 2-gang cover by EC
IAM	Supervised IAM * subscript indicates device address	4090-9001	4"sq w/sg & cover by EC
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	Pre-Action Solenoid	By Others	By Others
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Fire Alarm Systems, Level III

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LEVEL 3 EAST FLOOR PLAN
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APPROVED BY: C. McCAMMON
DRAWN BY: C. McCAMMON
DATE: 8/12/09
SITE/PROJECT NUMBER: 458413141/943123501
ELECTRONIC DRAWING NAME: FA-LEVEL 3
SHEET NUMBER: FA-LEV3-E

42" x 30"