DONA ANA COMMUNITY COLLEGE - DAHL HEALTH & PUBLIC BUILDING

VOICE EVACUATION FIRE ALARM SYSTEM

SHOP DRAWINGS

LIST OF DRAWINGS

SCOPE OF WORK

INSTALL NEW VOICE EVACUATION FIRE ALARM SYSTEM.

BUILDING OCCUPANCY

A1 ☐	A2 ☐	A3 ☐	A4 ☐	A5 ☐
B ■				
E ■				
F1 ☐	F2 ☐			
H1 ☐	H2 ☐	H3 ☐	H4 ☐	H5 ☐
I1 ☐	I2 ☐	I3 ☐	I4 ☐	
M ☐				
R1 ☐	R2 ☐	R3 ☐	R4 ☐	
S1 ☐	S2 ☐			
U1 ☐				

OCCUPANCY LOAD

OCCUPANCY LOAD: 500 OCCUPANTS

CODE COMPLIANCE

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2019 NFPA 72

CABLE STYLES

- ☐ Conventional Hardware
- ■ Addressable
- ☐ Class "A" SLC Circuit
- ■ Class "B" SLC Circuit
- ☐ Class "A" NAC Circuit
- ■ Class "B" NAC Circuit

MONITORING SYSTEMS

☐ FM-200	☐ Fire Pump
☐ Co2	☐ EMERGENCY
☐ Pre-Action	☐ Sprinkler System
☐ Inergen	☐ Ansul System
■ DACT	☐ AMMONIA

MONITORING AGENCY

TBD

U.L. CERTIFICATE OF COMPLIANCE FOR THE CENTRAL MONITORING STATION SHALL BE PROVIDED AT TIME OF INSPECTION

(2) DISTINCT REFERENCE NUMBERS FOR POTS LINES SHALL BE RECORDED ON CERTIFICATE OF COMPLETION

APPROVING AGENCY

STATE OF NEW MEXICO
13 BATAAN BLVD
SANTA FE, NM 87508
EMAIL: SFMO.PLANS@STATE.NM.US AND
BRUCE.DILE@STATE.NM.US

BUILDING SQUARE FT

22,000 SQ FT TOTAL

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

SIGNATURE:

COYOTE CABLING
VOICE • VIDEO • DATA • SALES • SERVICE

COYOTE CABLING LLC
742 WEST PALMS
LAS CRUCES NM 88005

CONTACT INFORMATION:
BRETT OFF
PHONE: 575.525.1422
BRETT@COYOTECABLING.COM

LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.30.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM
TITLE SHEET & LIST OF DRAWINGS

DONA ANA COMMUNITY COLLEGE
DAHL HEALTH & PUBLIC BUILDING
3400 S. ESPINA ST
LAS CRUCES NM 88003

PE STAMP:

HARVEY A PEEL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 12/31/25

SCALE: NONE

DATE: 11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

SHEET NO.

GENERAL NOTES

1. PERFORM THE ENTIRE INSTALLATION IN ACCORDANCE WITH THE CURRENT RULES OF THE NATIONAL ELECTRICAL CODE (NAC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
2. ELECTRICAL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS WHERE APPLICABLE.
3. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED. PROVIDE ADEQUATE SEALANT TO PREVENT THE PASSAGE OF SMOKE.
4. ALL F/A EQUIPMENT e.g. (CABINETS, HORNS, PULL STATIONS, DETECTORS, ETC.) SHALL BE RIGIDLY AND SECURELY FASTENED TO WALLS OR CEILINGS PER MANUFACTURER'S INSTRUCTIONS.
5. NO SMOKE DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO ANY AIR REGISTER OR DIFFUSER.
6. NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 18" TO ANY AIR REGISTER OR DIFFUSER.
7. NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO ANY PART OF ANY HEAT GENERATING DEVICE IN MECHANICAL ROOMS SUCH AS FLUES, BOILERS, WATER HEATERS, ETC.
8. INSTALL COMBINATION AUDIBLE AND VISUAL NOTIFICATION APPLIANCES WITH THE BOTTOM 80" ABOVE THE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
9. COMPLY WITH ADA ACCESSIBILITY GUIDELINES (ADAAG) FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
10. INSTALLING CONTRACTOR SHALL NOTIFY SYSTEM DESIGNER OF ANY REQUIRED CHANGES TO SYSTEM DESIGN PRIOR TO MAKING ANY CHANGES IN THE FIELD. THIS IS ESPECIALLY CRITICAL FOR NOTIFICATION APPLIANCE CIRCUIT LAYOUT.
11. CABLE SYSTEM ROUTING SHOWN ON DRAWING IS DIAGRAMMATIC. INSTALLING CONTRACTOR MAY DEVIATE FROM PATH SHOWN IF REQUIRED BY EXISTING FIELD CONDITIONS. FIRE ALARM DEVICE CIRCUITING SHALL REMAIN AS SHOWN.
12. FIRE ALARM SYSTEM PRIMARY POWER (120VAC) SHALL BE SUPPLIED BY A DEDICATED BRANCH CIRCUIT. CIRCUIT BREAKER OR DISCONNACT SHALL BE LABELED "FIRE ALARM", AND SHALL BE PROVIDED WITH LOCKABLE HANDLE OR COVER.
13. DUCT DETECTORS SHALL BE INSTALLED N SUPPLY AIR DUCTS ON UNITS WITH A CAPACITY GREATER THAN 2000 CFMS PER THE RECOMMENDATION OF THE MANUFACTURER. PROVIDE AIR SAMPLING TUBES, MOUNTING HARDWARE AND SMOKE DETECTOR LISTED FOR THE USE IN AIR DISTRIBUTION SYSTEMS. ALL EQUIPMENT SHALL BE INSTALLED PER APPLICABLE CODE REQUIREMENTS. OTHER SHALL PROVIDE INTERLOCK WIRING FROM THE DUCT SMOKE DETECTORS TO THE RESPECTIVE ROOFTOP HVAC HEATING/VENTILATING UNIT TO SHUT DOWN THE UNIT IN THE EVENT OF THE DETECTION OF THE PRODUCTS OF COMBUSTION IN THE RETURN AIR DUCT.
14. THE DB LEVEL OF THE NOTIFICATION DEVICE SHALL BE 15DB ABOVE AMBIENT NOISE LEVEL. SEE NFPA 72 TABLE A.7.4.2 FOR AVERAGE AMBIENT SOUND LEVELS.
15. BRANCH CIRCUIT BREAKERS PROVIDING POWER TO FIRE ALARM SYSTEM SHALL BE IDENTIFIED IN POWER PANELS WITH RED LABEL STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY NEC 760.41(B).
16. INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5'-0" SEPARATION WHERE RUNS ARE LONGER THAN 10'-0".

FACP SYSTEM INPUTS / SYSTEM OUTPUTS

	FACP SYSTEM INPUTS	A: ACTUATE COMMON ALARM VISUAL AND AUDIBLE INDICATOR AT FACP	B: DISPLAY ALARM DEVICE ADDRESS POINT AND LOCATION DESCRIPTION	C: ACTUATE SUPERVISORY VISUAL AND AUDIBLE INDICATOR AT FACP	D: DISPLAY SUPERVISORY DEVICE ADDRESS POINT AND LOCATION DESCRIPTION	E: ACTUATE COMMON TROUBLE VISUAL AND AUDIBLE INDICATOR AT FACP	F: DISPLAY TROUBLE CONDITION	G: TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	H: TRANSMIT ALARM TO CENTRAL STATION	I: ACTUATE BUILDING NOTIFICATION DEVICES	J: ACTIVATE ELEVATOR FIRE HAT	K: TRANSMIT TROUBLE TO CENTRAL STATION	L: RECALL ELEVATOR TO PRIMARY FLOOR	M: RECALL ELEVATOR TO ALTERNATE FLOOR	N: SHUT DOWN HVAC UNITS	O: SHUNT TRIP ELEVATOR POWER	P: SILENCE PANEL AND FACILITY AUDIBLES AND VISUALS	R: CONTROL PANEL RETURNS TO NORMAL (AUDIBLES AND VISUALS STOP)	
1	MANUAL PULL STATIONS	●	●						●	●									1
2	DETECTORS	●	●						●	●									2
3	DUCT DETECTORS			●	●			●								●			3
4	OPEN CIRCUIT, GROUND FAULT					●	●					●							4
5	FIRE ALARM AC POWER FAILURE					●	●					●							5
6	FIRE ALARM SYSTEM LOW BATTERY					●	●					●							6
7	SYSTEM SILENCE					●	●					●					●		7
8	SYSTEM RESET																	●	8
9	DACT POWER FAILURE					●	●					●							9
10	COMM TROUBLE					●	●					●							10
11	PHONE LINE TROUBLE					●	●					●							11
12	PRIMARY FLOOR ELEVATOR LOBBY SMOKE DETECTOR	●	●						●	●				●					12
13	ALTERNATE FLOOR ELEVATOR LOBBY SMOKE DETECTOR	●	●						●	●		●							13
14	ELEVATOR HOIST WAY / ELEVATOR MACHINE RM HEAT DETECTORS	●	●						●	●							●		14
15	ELEVATOR HOIST WAY / MACHINE ROOM SMOKE DETECTORS	●	●						●	●	●		●						15
16																			16
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	

FUNCTIONAL MATRIX

DEVICE LEGEND

SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	BACKBOX
FACP	1	SIEMENS	FC922-UT	252-POINT SYSTEM WITH 300W POWER SUPPLY AND STANDARD OPERATOR INTERFACE CONSISTS OF: ONE FCM2018-U3, ONE FP2012-U1, ONE FCI2016-U1	PROVIDED BY CONTRACTOR
FAA	1	SIEMENS	FT2014-R3	REMOTE DISPLAY (RED)	
DOC	1	SPACE AGE ELECTRONICS	SSU00691	SDB SYSTEM DOCUMENT BOX	
NAC	2	SIEMENS	PAD-3-6A	ASSEMBLY, NAC PANEL	
F	9	SIEMENS	XMS-D	MANUAL STATION -DUAL ACTION	3-1/2" DEEP SWITCH BOX
AIM	3	SIEMENS	XTRI-S	SINGLE INPUT MONITOR MODULE WITH BUILT-IN ISOLATOR	4" SQUARE
AIO	9	SIEMENS	XTRI-R	SINGLE INPUT MONITOR MODULE WITH RELAY WITH BUILT-IN ISOLATOR	
S R	4	SIEMENS	FDBZ492-HR W/OP921	DUCT HOUSING - 2 WIRE WITH RELAY FOR ADDRESSABLE SYSTEMS W/ OP921	PROVIDED BY CONTRACTOR
	4	SIEMENS	FDBZ492-RTL	REMOTE TEST LAMP AND KEYSWITCH FOR MANUAL TESTING OF FDBZ492-R, FDBZ492-HR, FDBZ492-RP	SINGLE GANG SWITCH BOX
H	9	SIEMENS	HI921 W/DB-11 BASE	THERMAL (HEAT) DETECTOR USE WITH DB-11 DETECTOR BASE	4" SQUARE
S	32	SIEMENS	OP921 W/DB-11	SMOKE DETECTOR W/6" BASE	
	40	SIEMENS	OOHC941	MULTI-CRITERIA FIRE / CO DETECTOR	
	1	SIEMENS	SET-S17-R-WP	ET SPKR 15/75 STROBE RED WEATHERPROOF	4" SQUARE x 2-1/8" DEEP
	9	SIEMENS	SL2SCR-F	STROBE, CEILING, CLEAR, RED, FIRE	
	52	SIEMENS	SL2SPSCW-F	SPEAKER-STROBE, CEILING, CLEAR, WHITE, FIRE	
	5	SIEMENS	SL2SPSWR-F	SPEAKER-STROBE, WALL, CLEAR, RED, FIRE	
	2	GENERIC	GENERIC	WIREPATH RISER	NA
DH	7	GENERIC	GENERIC	EXISTING DOOR HOLDER	

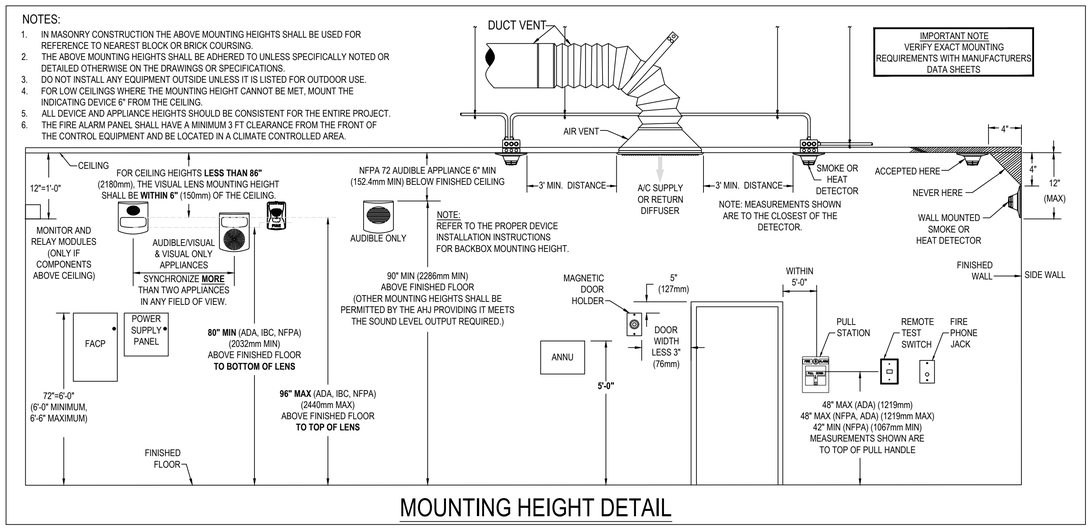
CABLE AND WIRE LEGEND

LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION	TOTAL LENGTH
485	18/2 FPLP/R (RS-485)	18	7.77	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED	50'
A	18/2 FPLP/R (SLC)	18	7.77	2 COND. SOLID COPPER FPLP/R ADDRESSABLE UNSHIELDED	2566'
S	16/2 FPLP/R (SPEAKER)	16	4.89	2 COND. SOLID COPPER FPLP/R ANALOG SPEAKER	2093'
V	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED	2044'

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	IDC	INITIATING DEVICE CIRCUIT
AHU	AIR HANDLER UNIT	NAC	NOTIFICATION APPLIANCE CIRCUIT
C	CEILING MOUNT	OFE	OWNER FURNISHED EQUIPMENT
CLS	CLASSLAB CLS	SLC	SIGNALING LINE CIRCUIT
EOL	END OF LINE RESISTOR	TYP	TYPICAL
EX	EXISTING	UF	UNDER FLOOR
EXR	EXISTING TO BE REMOVED	WG	WIRE GUARD
HSSD	HIGH SENSITIVITY SMOKE DETECTION	WP	WEATHER PROOF

NOTES:
1. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
3. DO NOT INSTALL ANY EQUIPMENT OUTSIDE UNLESS IT IS LISTED FOR OUTDOOR USE.
4. FOR LOW CEILINGS WHERE THE MOUNTING HEIGHT CANNOT BE MET, MOUNT THE INDICATING DEVICE 6" FROM THE CEILING.
5. ALL DEVICE AND APPLIANCE HEIGHTS SHOULD BE CONSISTENT FOR THE ENTIRE PROJECT.
6. THE FIRE ALARM PANEL SHALL HAVE A MINIMUM 3 FT CLEARANCE FROM THE FRONT OF THE CONTROL EQUIPMENT AND BE LOCATED IN A CLIMATE CONTROLLED AREA.



MOUNTING HEIGHT DETAIL

COYOTE CABLING
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742 WEST PALMS
LAS CRUCES NM 88005

CONTACT INFORMATION:
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PHONE: 575.525.1422
BRETT@COYOTECABLING.COM

LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.30.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM
BOM, FUNCTIONAL MATRIX AND NOTES

DONA ANA COMMUNITY COLLEGE
DAHL HEALTH & PUBLIC BUILDING
3400 S. ESPINA ST
LAS CRUCES NM 88003

PE STAMP:

EXPIRES: 12/31/25

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

SIGNATURE:

SCALE: NONE

DATE: 11.30.24

DRAWN BY: GINA GRIFFIN IMAGE 505-379-6902

SHEET NO.

2 OF 8

SITE PLAN

PLAN NORTH

COYOTE CABLING
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DAHL HEALTH & PUBLIC BUILDING
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LAS CRUCES NM 88003

PE STAMP:

HARVEY A PEEL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 12/31/25

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
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CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

SIGNATURE:

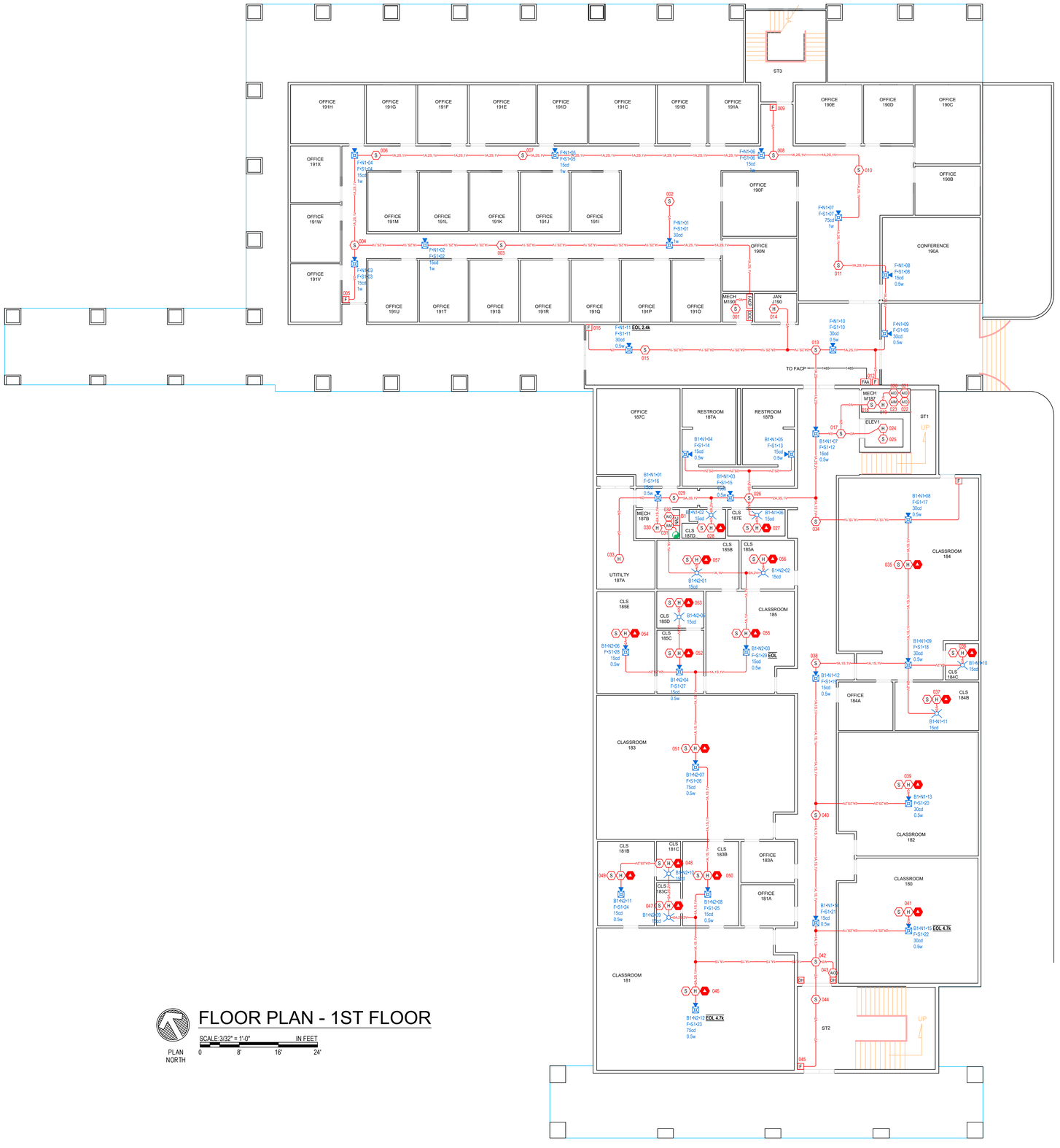
SCALE:

DATE:
11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

SHEET NO.

3 OF 8



PLAN NORTH

FLOOR PLAN - 1ST FLOOR

SCALE: 3/32" = 1'-0"

IN FEET

0 8' 16' 24'

GENERAL NOTES:

1. REFER TO SHEET 2 FOR ADDITIONAL INFORMATION APPLICABLE TO THIS PROJECT.
2. ALL CONDUITS SHOWN ON PLANS ARE 3/4" DIAMETER EMT UNLESS OTHERWISE INDICATED.
3. SEAL CONDUIT PENETRATIONS THROUGH FIRE WALLS AND FLOORS WITH U.L. APPROVED FIRE STOP SYSTEM, USING MATERIALS LABELED FOR THE SYSTEM. SUPPORT CONDUIT RIGIDLY ON BOTH SIDES OF WALLS.
4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL CONDUIT AND STANDARD BACK BOXES AS INDICATED FOR FIRE ALARM.
5. CONDUIT AND CABLING ROUTING SHOWN ON DRAWING ARE DIAGRAMMATIC AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. THE CONTRACTOR INSTALLING THE CONDUIT AND/OR CABLING IS REQUIRED TO PROVIDE UPDATED ACCURATE REDLINE DRAWINGS TO FIRE ALARM CONTRACTOR FOR RECORD DOCUMENT AS-BUILT.
6. DO NOT COMBINE CIRCUIT RUNS SHOWN ON DRAWINGS OR DEVIATE FROM POINT TO POINT ROUTING UNLESS WRITTEN APPROVAL IS OBTAINED FROM FIRE ALARM CONTRACTOR.
7. NO T-TAPS ALLOWED ON SLC OR NAC CIRCUITS.

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
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COYOTE CABLING LLC
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LAS CRUCES NM 88005

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LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.30.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM
FLOOR PLAN

DONA ANA COMMUNITY COLLEGE
DAHL HEALTH & PUBLIC BUILDING
3400 S. ESPINA ST
LAS CRUCES NM 88003

PE STAMP:

HARVEY A PEEL
NEW MEXICO
12851
REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 12/31/25

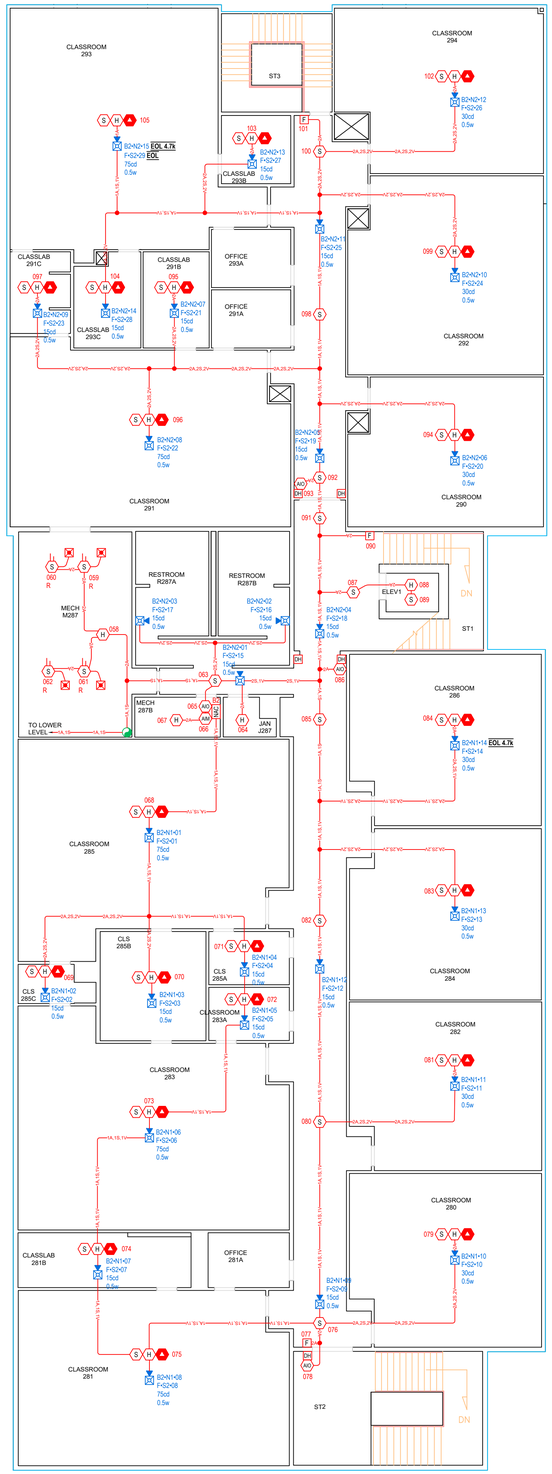
SCALE: 1/8" = 1'-0"

DATE: 11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

SHEET NO.

4 OF 8



PLAN NORTH

FLOOR PLAN - 2ND FLOOR

SCALE:3/32" = 1'-0" IN FEET

0 8' 16' 24'

GENERAL NOTES:

1. REFER TO SHEET 2 FOR ADDITIONAL INFORMATION APPLICABLE TO THIS PROJECT.
2. ALL CONDUITS SHOWN ON PLANS ARE 3/4" DIAMETER EMT UNLESS OTHERWISE INDICATED.
3. SEAL CONDUIT PENETRATIONS THROUGH FIRE WALLS AND FLOORS WITH U.L. APPROVED FIRE STOP SYSTEM, USING MATERIALS LABELED FOR THE SYSTEM. SUPPORT CONDUIT RIGIDLY ON BOTH SIDES OF WALLS.
4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL CONDUIT AND STANDARD BACK BOXES AS INDICATED FOR FIRE ALARM.
5. CONDUIT AND CABLING ROUTING SHOWN ON DRAWING ARE DIAGRAMMATIC AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. THE CONTRACTOR INSTALLING THE CONDUIT AND/OR CABLING IS REQUIRED TO PROVIDE UPDATED ACCURATE REDLINE DRAWINGS TO FIRE ALARM CONTRACTOR FOR RECORD DOCUMENT AS-BUILT.
6. DO NOT COMBINE CIRCUIT RUNS SHOWN ON DRAWINGS OR DEVIATE FROM POINT TO POINT ROUTING UNLESS WRITTEN APPROVAL IS OBTAINED FROM FIRE ALARM CONTRACTOR.
7. NO T-TAPS ALLOWED ON SLC OR NAC CIRCUITS.

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FLOOR PLAN

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LAS CRUCES NM 88003

PE STAMP:

HARVEY A PEEL
NEW MEXICO
11351
REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 12/31/25

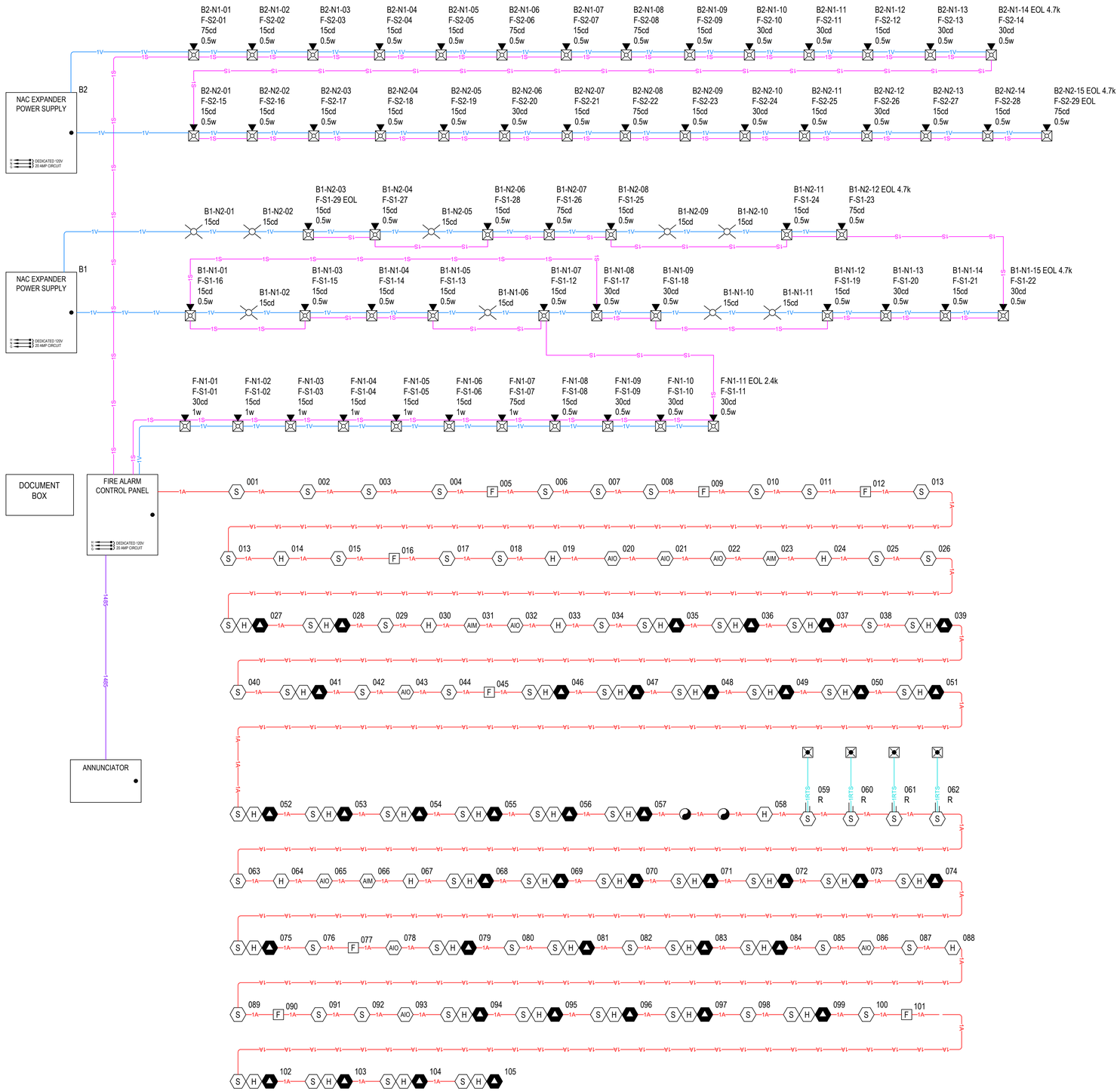
SCALE:
1/8" = 1'-0"

DATE:
11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

SHEET NO.

5 OF 8



RISER DIAGRAM

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CERTIFICATE #:	#113316
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SIGNATURE:

SCALE: NONE

DATE: 11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

SHEET NO.

6 OF 8

PANEL F (FC922-UT) BATTERY CALCULATION							
(SECONDARY POWER SOURCE REQUIREMENTS)							
PANEL POWER SUPPLY MAX CURRENT = 11.5A				TOTAL USED CAPACITY (IN ALARM) = 4.6882A (40.77 %)			
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
PANEL COMPONENTS	1	FCA2015-U1	Dialer module (DACT)	0.025	**0.025**	0.033	**0.033**
	1	FCA2016-U1	RS485 class A module (iso.)	0.075	**0.075**	0.136	**0.136**
	1	FCA2031-A1	Connection Module (MoNet) Used for communication between an FCI2018/FCI2019 operating unit and either the VCC2001 Voice CPU (for fire/voice panels) or the FN2012 Ethernet Switch (for fire only panels). The FCA2031 mounts in Position 1 on an FCI2018/FCI2019 operating unit.	0	**0**	0.1	**0.1**
	1	FCI2011-U1	NAC module (1A/28)	0.04	**0.04**	0.04	**0.04**
	1	FCI2016-U1	Periphery board (252 pts)	0.11	**0.11**	0.136	**0.136**
	1	FP2012-U1	300W power supply	0	**0**	0	**0**
	1	VCC2001-A1	Voice CPU Card Voice CPU card which supervises and controls all voice modules and functions. This card gets mounted in the VCA2002 card cage (2nd slot from the left), and works with the VCC2002 Voice I/O card to control the voice system.	0.2	**0.2**	0.21	**0.21**
	1	VCC2002-A1	Voice I/O Card Input/Output card for the Voice system. The VCC2002 gets mounted in the VCA2002 card cage (1st slot on the left), and works with the VCC2001 to control the voice system. It supports two local audio inputs (for microphones or external low-level audio signals) and one low-level audio output, with all audio signal wiring connected to the card cage.	0.151	**0.151**	0.156	**0.156**
	1	VCI2001-U1 (70.7V)	CARD, 50W VOICE AMPLIFIER CARD 70.7 VOLTS	0.33	**0.33**	3.2	**3.2**
	1	VTO2001-U3	Option module (24 switches) Cerberus PRO switch module used on FV922/FV924 to add manual voice control. Up to four VTO2001-U3s can be supported on a single panel enclosure row.	0.017	**0.017**	0.143	**0.143**
	1	VTO2004-U3	Option module (microphone) Cerberus PRO microphone module used on FV922/FV924 to add a paging microphone. The VTO2004-U3 can be either a main microphone installed in the main system enclosure, or as a remote microphone in a remote enclosure. Up to two microphones are supported for each FV222/FV924.	0.029	**0.029**	0.054	**0.054**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
F-ANN-BUS PRI	FAA	1	FT2014-R3	Remote display (red)	0	**0**	0	**0**
F-L1	H R	4	FDBZ492-HR w/OP921	DUCT HOUSING - 2 WIRE WITH RELAY FOR ADDRESSABLE SYSTEMS w/ OP921	0.0003	**0.0012**	0.0003	**0.0012**
	H	9	HI921 w/DB-11 BASE	Thermal (Heat) Detector use with DB-11 Detector Base	0.0003	**0.0027**	0.0003	**0.0027**
	CO●	40	OOHC941	Multi-Criteria Fire / CO Detector	0.0004	**0.016**	0.00065	**0.026**
	S	32	OP921 w/DB-11	Smoke Detector w/B" Base	0.0003	**0.0096**	0.0003	**0.0096**
		2	WIREPATH RISER		0	**0**	0	**0**
	F	8	XMS-D	MANUAL STATION -DUAL ACTION	0.0005	**0.004**	0.0005	**0.004**
	XIO	9	XTRI-R	Single Input Monitor Module with Relay with Built-In Isolator	0.00075	**0.00675**	0.00075	**0.00675**
	XIM	3	XTRI-S	Single Input Monitor Module with Built-In Isolator	0.00065	**0.00195**	0.00065	**0.00195**
F-N1		1	SET-S17-R-WP	ET SPKR 15/75 STROBE RED WEATHERPROOF 30cd	0	**0**	0.146	**0.146**
		5	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	0	**0**	0.022	**0.11**
		3	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	0	**0**	0.03	**0.09**
		1	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	0	**0**	0.06	**0.06**
		1	SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	0	**0**	0.022	**0.022**
F-S1		1	SET-S17-R-WP	ET SPKR 15/75 STROBE RED WEATHERPROOF 0.5w	0	**0**	0	**0**
		18	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 0.5w	0	**0**	0	**0**
		7	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 1w	0	**0**	0	**0**
		3	SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 0.5w	0	**0**	0	**0**
F-S2		27	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 0.5w	0	**0**	0	**0**
		2	SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 0.5w	0	**0**	0	**0**
					TOTAL STANDBY (A)	**1.0192**	TOTAL ALARM (A)	**4.6882**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)			**1.0192**	24		**24.46**		
SECONDARY ALARM LOAD (A)			**4.6882**	0.25		**1.17**		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				**25.63**				
DERATING FACTOR				1.2				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)				**30.76**				
PROVIDE (2) 12V 33AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

PANEL B1 (PAD-3-6A) BATTERY CALCULATION							
(SECONDARY POWER SOURCE REQUIREMENTS)							
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
	1	PAD-3-6A MAIN BOARD	CARD, PAD-3-6A MAIN BOARD	0.5	**0.5**	5	**5**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
B1-N1		4	SL2SCR-F	Strobe, Ceiling, Clear, Red, Fire 15cd	0	**0**	0.022	**0.088**
		5	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	0	**0**	0.022	**0.11**
		4	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	0	**0**	0.03	**0.12**
		2	SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	0	**0**	0.022	**0.044**
B1-N2		5	SL2SCR-F	Strobe, Ceiling, Clear, Red, Fire 15cd	0	**0**	0.022	**0.11**
		5	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	0	**0**	0.022	**0.11**
		2	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	0	**0**	0.06	**0.12**
					TOTAL STANDBY (A)	**0.5**	TOTAL ALARM (A)	**5.702**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)			**0.5**	24		**12**		
SECONDARY ALARM LOAD (A)			**5.702**	0.25		**1.43**		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				**13.43**				
DERATING FACTOR				1.2				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)				**16.11**				
PROVIDE (2) 12V 18AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.							

B1 N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	24	Max. Voltage Drop:	**0.85**
				Min. Operational Voltage:	16	End Of Line Voltage:	**23.15**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**3.55 %**
				Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.362**
Circuit Wiring Properties: "V" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	384	Spare Current (A):	**2.638**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	2.355852	Spare Current (A) Percent:	**87.93 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	5	0.022	**0.11**	
		SL2SCR-F	Strobe, Ceiling, Clear, Red, Fire 15cd	4	0.022	**0.088**	
		SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	2	0.022	**0.044**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	4	0.03	**0.12**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

B1 N2 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	24	Max. Voltage Drop:	**0.49**
				Min. Operational Voltage:	16	End Of Line Voltage:	**23.51**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**2.03 %**
				Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.34**
Circuit Wiring Properties: "V" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	234	Spare Current (A):	**2.66**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	1.435459	Spare Current (A) Percent:	**88.67 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		SL2SCR-F	Strobe, Ceiling, Clear, Red, Fire 15cd	5	0.022	**0.11**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	5	0.022	**0.11**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	2	0.06	**0.12**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

PANEL B2 (PAD-3-6A) BATTERY CALCULATION							
(SECONDARY POWER SOURCE REQUIREMENTS)							
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
	1	PAD-3-6A MAIN BOARD	CARD, PAD-3-6A MAIN BOARD	0.5	**0.5**	5	**5**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
B2-N1		7	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	0	**0**	0.022	**0.154**
		4	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	0	**0**	0.03	**0.12**
		3	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	0	**0**	0.06	**0.18**
B2-N2		8	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	0	**0**	0.022	**0.176**
		3	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	0	**0**	0.03	**0.09**
		2	SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	0	**0**	0.06	**0.12**
		2	SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	0	**0**	0.022	**0.044**
					TOTAL STANDBY (A)	**0.5**	TOTAL ALARM (A)	**5.884**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)			**0.5**	24		**12**		
SECONDARY ALARM LOAD (A)			**5.884**	0.25		**1.47**		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				**13.47**				
DERATING FACTOR				1.2				
SECONDARY LOAD REQUIREMENTS (AMP HOURS)				**16.17**				
PROVIDE (2) 12V 18AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

B2 N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	24	Max. Voltage Drop:	**1.46**
				Min. Operational Voltage:	16	End Of Line Voltage:	**22.54**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**6.08 %**
				Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.454**
Circuit Wiring Properties: "V" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	523	Spare Current (A):	**2.546**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	3.213331	Spare Current (A) Percent:	**84.87 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	7	0.022	**0.154**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	4	0.03	**0.12**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	3	0.06	**0.18**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

B2 N2 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	24	Max. Voltage Drop:	**1.57**
				Min. Operational Voltage:	16	End Of Line Voltage:	**22.43**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**6.52 %**
				Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.43**
Circuit Wiring Properties: "V" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	593	Spare Current (A):	**2.57**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	3.639861	Spare Current (A) Percent:	**85.67 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	8	0.022	**0.176**	
		SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	2	0.022	**0.044**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	3	0.03	**0.09**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	2	0.06	**0.12**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

Project: DACC DAHL BLDG 2 HEALTH Date: 11/30/2024
Speaker Schedule Summary
Source:
Voltage: 0v Watts: 0

PANEL:CIRCUIT	SET-S17-R-WP	SL2SPSCW-F			WATTS	CIRCUIT LENGTH	START VOLTAGE	DECIBEL LOSS	AWG	OHMS/KFT	TOTAL RESISTANCE (OHMS)
RATING	0.5w	0.5w	1w								
WATTS	0.5	0.5	1								
F:S1	1	18	7		18	920'	70.7v	-0.28618dB	16	4.89	5
F:S2		27			14.5	1172'	70.7v	-0.293837dB	16	4.89	6
NOTES: These calculations double the wire length indicated to account for the total wire resistance of the circuit. DC resistance at 75° C/167° F per NFPA 70 ch. 9, table 8.											
DEVICE & WIRE TOTALS	1	45	7		32.5						

F N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
				Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**0.84**
				Min. Operational Voltage:	16	End Of Line Voltage:	**19.56**
				Max. Circuit Current (A):	3	Voltage Drop Percent:	**4.12 %**
				Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.428**
Circuit Wiring Properties: "V" 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded				Total Circuit Length (Ft):	320	Spare Current (A):	**2.572**
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):	1.964149	Spare Current (A) Percent:	**85.73 %**
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 15cd	5	0.022	**0.11**	
		SL2SPSWR-F	Speaker-Strobe, Wall, Clear, Red, Fire 15cd	1	0.022	**0.022**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 30cd	3	0.03	**0.09**	
		SL2SPSCW-F	Speaker-Strobe, Ceiling, Clear, White, Fire 75cd	1	0.06	**0.06**	
		SET-S17-R-WP	ET SPKR 15/75 STROBE RED WEATHERPROOF 30cd	1	0.146	**0.146**	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

CALCULATIONS

COYOTE CABLING
VOICE • VIDEO • DATA • SALES • SERVICE

COYOTE CABLING LLC
742 WEST PALMS
LAS CRUCES NM 88005

CONTACT INFORMATION:
BRETT OFF
PHONE: 575.525.1422
BRETT@COYOTECABLING.COM

LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.30.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM
RISER DIAGRAM

DONA ANA COMMUNITY COLLEGE
DAHL HEALTH & PUBLIC BUILDING
3400 S. ESPINA ST
LAS CRUCES NM 88003

PE STAMP:

HARVEY A PEEL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 12/31/25

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

SIGNATURE:

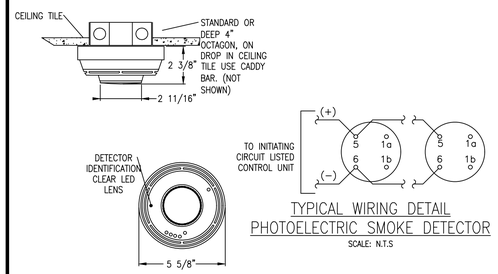
SCALE: NONE

DATE: 11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
505-379-6902

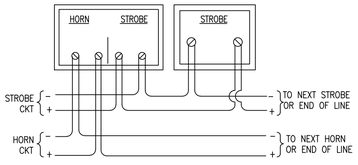
SHEET NO.

7 OF 8



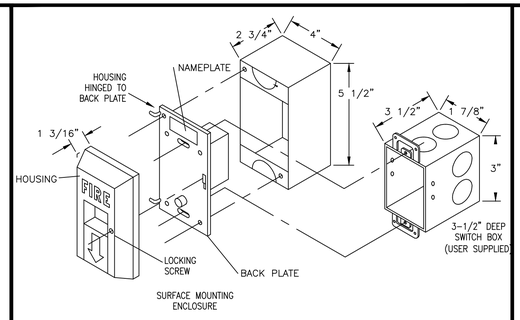
TYPICAL DETECTOR DETAIL

SCALE: N.T.S



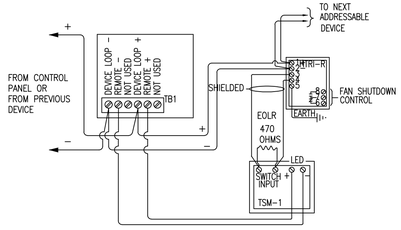
TYPICAL HORN/STROBE OR STROBE WIRING

SCALE: N.T.S



SURFACE & FLUSH MOUNT MANUAL PULL STATION

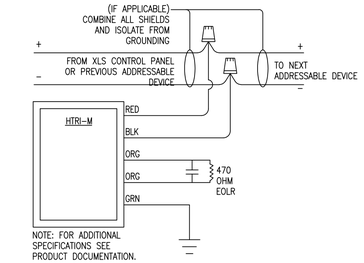
SCALE: N.T.S



DUCT DETECTOR W/ TEST SWITCH AND SHUTDOWN

SCALE: N.T.S

NOTE: FOR ADDITIONAL SPECIFICATIONS SEE PRODUCT DOCUMENTATION.

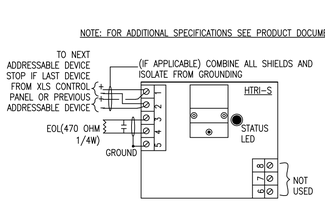


TYPICAL HTRI-M WIRING

INPUT IS SUPERVISED, SHIELD REQUIRED

SCALE: N.T.S

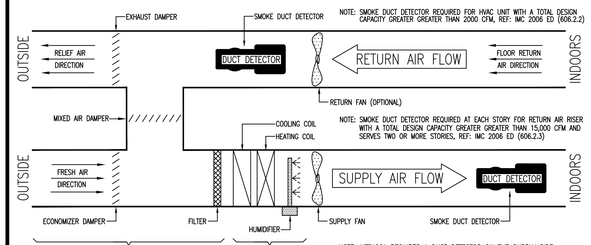
NOTE: FOR ADDITIONAL SPECIFICATIONS SEE PRODUCT DOCUMENTATION.



TYPICAL HTRI-S WIRING

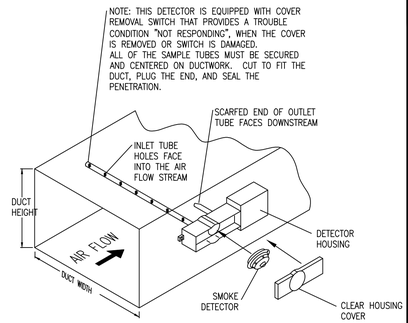
INPUT IS SUPERVISED, SHIELD REQUIRED

SCALE: N.T.S



DUCT DETECTOR PLACEMENT

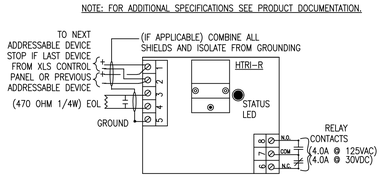
SCALE: N.T.S



DUCT DETECTOR EQUIPMENT MOUNTING

SCALE: N.T.S

NOTE: FOR ADDITIONAL SPECIFICATIONS SEE PRODUCT DOCUMENTATION.

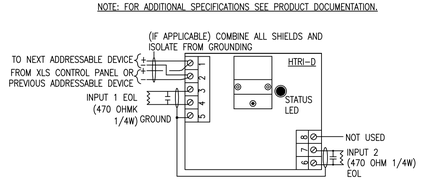


TYPICAL HTRI-R WIRING

INPUT IS SUPERVISED, SHIELD REQUIRED

SCALE: N.T.S

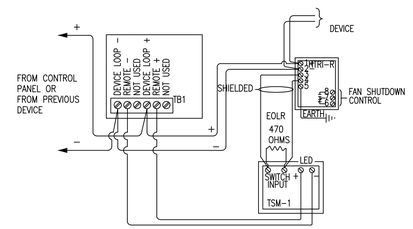
NOTE: FOR ADDITIONAL SPECIFICATIONS SEE PRODUCT DOCUMENTATION.



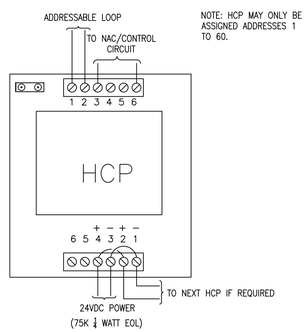
TYPICAL HTRI-D WIRING

INPUT IS SUPERVISED, SHIELD REQUIRED

SCALE: N.T.S



DUCT DETECTOR W/ TEST SWITCH AND SHUTDOWN



NOTE: HCP MAY ONLY BE ASSIGNED ADDRESSES 1 TO 60.

TYPICAL HCP WIRING DETAIL

SCALE: N.T.S

TYPICAL DETAILS

COYOTE CABLING
VOICE • VIDEO • DATA • SALES • SERVICE

COYOTE CABLING LLC
742 WEST PALMS
LAS CRUCES NM 88005

CONTACT INFORMATION:
BRETT OFF
PHONE: 575.525.1422
BRETT@COYOTECABLING.COM

LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.30.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM
TYPICAL DETAILS

DONA ANA COMMUNITY COLLEGE
DAHL HEALTH & PUBLIC BUILDING
3400 S. ESPINA ST
LAS CRUCES NM 88003

PE STAMP:

EXPIRES: 12/31/25

NAME:	WAYNE COBB, CET
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

SIGNATURE:

SCALE: NONE

DATE: 11.30.24

DRAWN BY:
GINA GRIFFIN
IMAGE
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