

# DONA ANA COMMUNITY COLLEGE - DACC CLASSROOM BLDG

## VOICE EVACUATION FIRE ALARM SYSTEM

### SHOP DRAWINGS

#### LIST OF DRAWINGS

SHEET #	DRAWING TITLE
1	TITLE SHEET & LIST OF DRAWINGS
2	BOM, FUNCTIONAL MATRIX AND NOTES
3	SITE PLAN
4	FLOORPLAN
5	RISER DIAGRAM AND CALCULATIONS
6	DETAILS

#### SCOPE OF WORK

INSTALL NEW VOICE EVACUATION FIRE ALARM SYSTEM.

#### BUILDING OCCUPANCY

A1 <input type="checkbox"/>	A2 <input type="checkbox"/>	A3 <input type="checkbox"/>	A4 <input type="checkbox"/>	A5 <input type="checkbox"/>
B <input checked="" type="checkbox"/>				
E <input checked="" type="checkbox"/>				
F1 <input type="checkbox"/>	F2 <input type="checkbox"/>			
H1 <input type="checkbox"/>	H2 <input type="checkbox"/>	H3 <input type="checkbox"/>	H4 <input type="checkbox"/>	H5 <input type="checkbox"/>
I1 <input type="checkbox"/>	I2 <input type="checkbox"/>	I3 <input type="checkbox"/>	I4 <input type="checkbox"/>	
M <input type="checkbox"/>				
R1 <input type="checkbox"/>	R2 <input type="checkbox"/>	R3 <input type="checkbox"/>	R4 <input type="checkbox"/>	
S1 <input type="checkbox"/>	S2 <input type="checkbox"/>			
U1 <input type="checkbox"/>				

#### OCCUPANCY LOAD

OCCUPANCY LOAD: 706 OCCUPANTS

#### CODE COMPLIANCE

2021 INTERNATIONAL BUILDING CODE  
2021 INTERNATIONAL FIRE CODE  
2019 NFPA 72

#### CABLE STYLES

<input type="checkbox"/> Conventional Hardware
<input checked="" type="checkbox"/> Addressable
<input type="checkbox"/> Class "A" SLC Circuit
<input checked="" type="checkbox"/> Class "B" SLC Circuit
<input type="checkbox"/> Class "A" NAC Circuit
<input checked="" type="checkbox"/> Class "B" NAC Circuit

#### MONITORING SYSTEMS

<input type="checkbox"/> FM-200	<input type="checkbox"/> Fire Pump
<input type="checkbox"/> Co2	<input type="checkbox"/> EMERGENCY
<input type="checkbox"/> Pre-Action	<input type="checkbox"/> Sprinkler System
<input type="checkbox"/> Inergen	<input type="checkbox"/> Ansul System
<input checked="" type="checkbox"/> DACT	<input type="checkbox"/> AMMONIA

#### MONITORING AGENCY

TBD

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

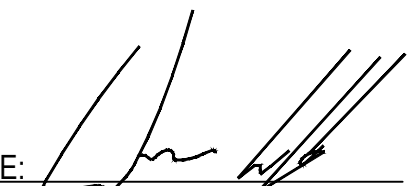
(2) DISTINCT REFERENCE NUMBERS FOR POTS LINES SHALL BE RECORDED ON CERTIFICATE OF COMPLETION

#### 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

22,125 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:  
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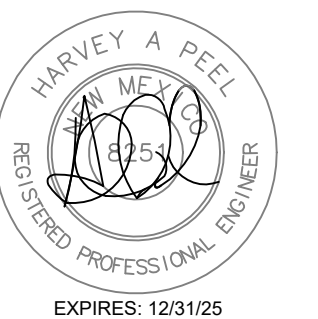
LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.28.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM  
TITLE SHEET & LIST OF DRAWINGS  
DONA ANA COMMUNITY COLLEGE  
DACL CLASSROOM BUILDING  
3400 S. ESPINA ST  
LAS CRUCES NM 88003

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PE STAMP:



SCALE:

NONE

DATE:

11.28.24

DRAWN BY:

GINA GRIFFIN

IMAGE:

505-379-6902

SHEET NO.:

1 OF 6



**GENERAL NOTES**

- 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).
- ELECTRICAL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS WHERE APPLICABLE.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED. PROVIDE ADEQUATE SEALANT TO PREVENT THE PASSAGE OF SMOKE.
- 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.
- NO SMOKE DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO ANY AIR REGISTER OR DIFFUSER.
- NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 18" TO ANY AIR REGISTER OR DIFFUSER.
- 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.
- INSTALL COMBINATION AUDIBLE AND VISUAL NOTIFICATION APPLIANCES WITH THE BOTTOM 80" ABOVE THE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
- COMPLY WITH ADA ACCESSIBILITY GUIDELINES (ADAAG) FOR DEVICE MOUNTING HEIGHTS AND LOCATIONS.
- 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.
- 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.
- FIRE ALARM SYSTEM PRIMARY POWER (120VAC) SHALL BE SUPPLIED BY A DEDICATED BRANCH CIRCUIT. CIRCUIT BREAKER OR DISCONNECT SHALL BE LABELED "FIRE ALARM", AND SHALL BE PROVIDED WITH LOCKABLE HANDLE OR COVER.
- DUCT DETECTORS SHALL BE INSTALLED IN 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.
- 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.
- 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).
- INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5'-0" SEPARATION WHERE RUNS ARE LONGER THAN 10'-0".

**SYSTEM OUTPUTS**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
ACTUATE COMMON ALARM VISUAL AND AUDIBLE INDICATOR AT FACP																	
DISPLAY ALARM DEVICE ADDRESS POINT AND LOCATION DESCRIPTION																	
ACTUATE SUPERVISORY VISUAL AND AUDIBLE INDICATOR AT FACP																	
DISPLAY SUPERVISORY DEVICE ADDRESS POINT AND LOCATION DESCRIPTION																	
ACTUATE COMMON TROUBLE VISUAL AND AUDIBLE INDICATOR AT FACP																	
DISPLAY TROUBLE CONDITION																	
TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION																	
TRANSMIT ALARM TO CENTRAL STATION																	
ACTUATE BUILDING NOTIFICATION DEVICES																	
ACTIVATE ELEVATOR FIRE HAT																	
TRANSMIT TROUBLE TO CENTRAL STATION																	
RECALL ELEVATOR TO PRIMARY FLOOR																	
RECALL ELEVATOR TO ALTERNATE FLOOR																	
SHUT DOWN HVAC UNITS																	
SHUNT TRIP ELEVATOR POWER																	
SILENCE PANEL AND FACILITY AUDIBLES AND VISUALS																	
CONTROL PANEL RETURNS TO NORMAL (AUDIBLES AND VISUALS STOP)																	

**FACP SYSTEM INPUTS**

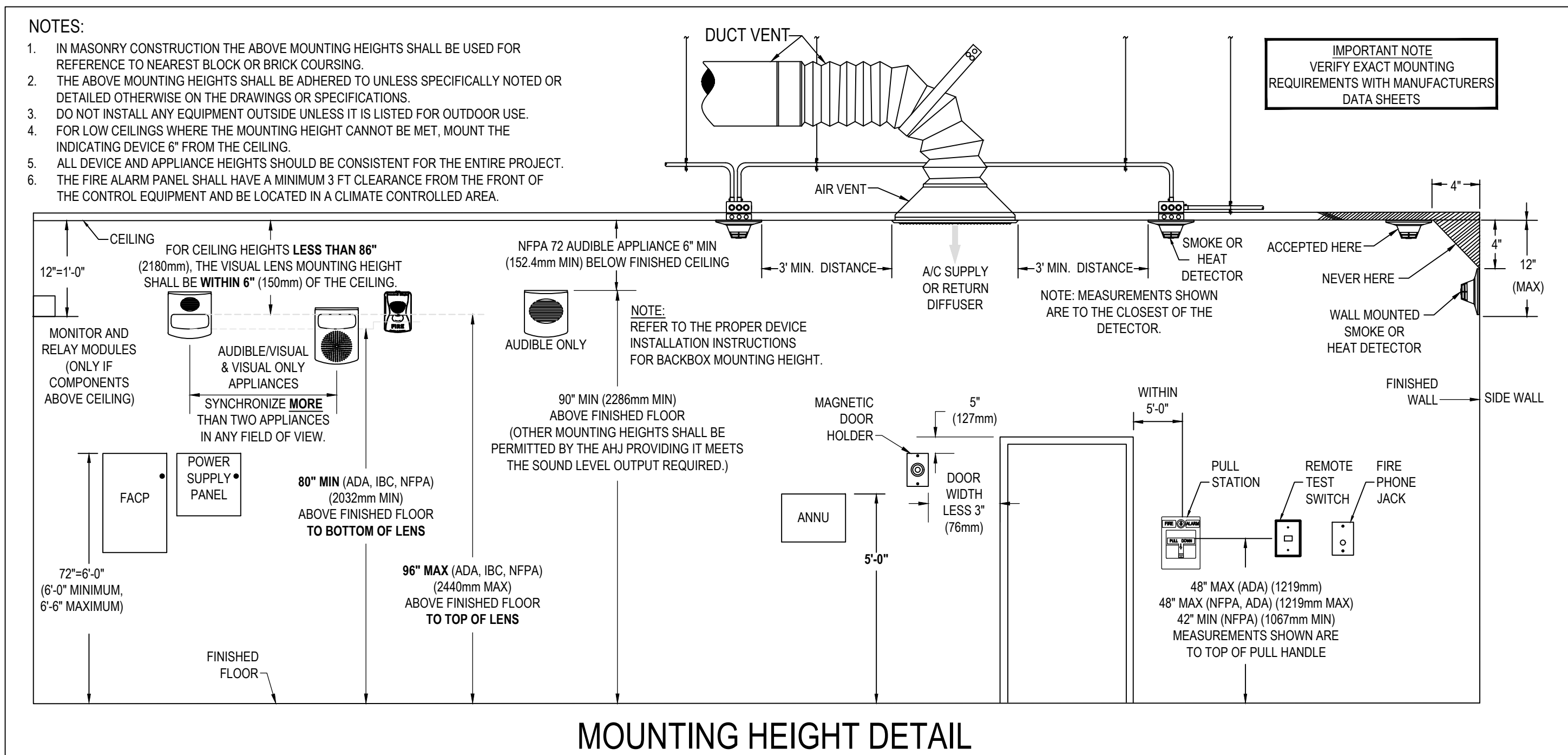
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
1 MANUAL PULL STATIONS																	
2 DETECTORS																	
3 DUCT DETECTORS																	
4 OPEN CIRCUIT, GROUND FAULT																	
5 FIRE ALARM AC POWER FAILURE																	
6 FIRE ALARM SYSTEM LOW BATTERY																	
7 SYSTEM SILENCE																	
8 SYSTEM RESET																	
9 DACT POWER FAILURE																	
10 COMM TROUBLE																	
11 PHONE LINE TROUBLE																	
12 PRIMARY FLOOR ELEVATOR LOBBY SMOKE DETECTOR																	
13 ALTERNATE FLOOR ELEVATOR LOBBY SMOKE DETECTOR																	
14 ELEVATOR HOIST WAY / ELEVATOR MACHINE RM HEAT DETECTORS																	
15 ELEVATOR HOIST WAY / MACHINE ROOM SMOKE DETECTORS																	
16																	

**FUNCTIONAL MATRIX**

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	1375'
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED	80'-0"
S	16/2 FPLP/R (SPEAKER)	16	4.89	2 COND. SOLID COPPER FPLP/R ANALOG SPEAKER	885'
V	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED	885'

**ABBREVIATIONS**

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



**MOUNTING HEIGHT DETAIL**

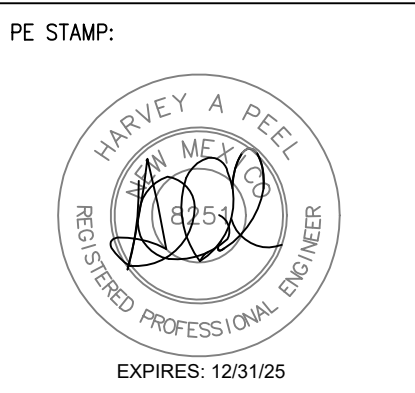


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 LICENSE #: 60098

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 BOM, FUNCTIONAL MATRIX AND NOTES  
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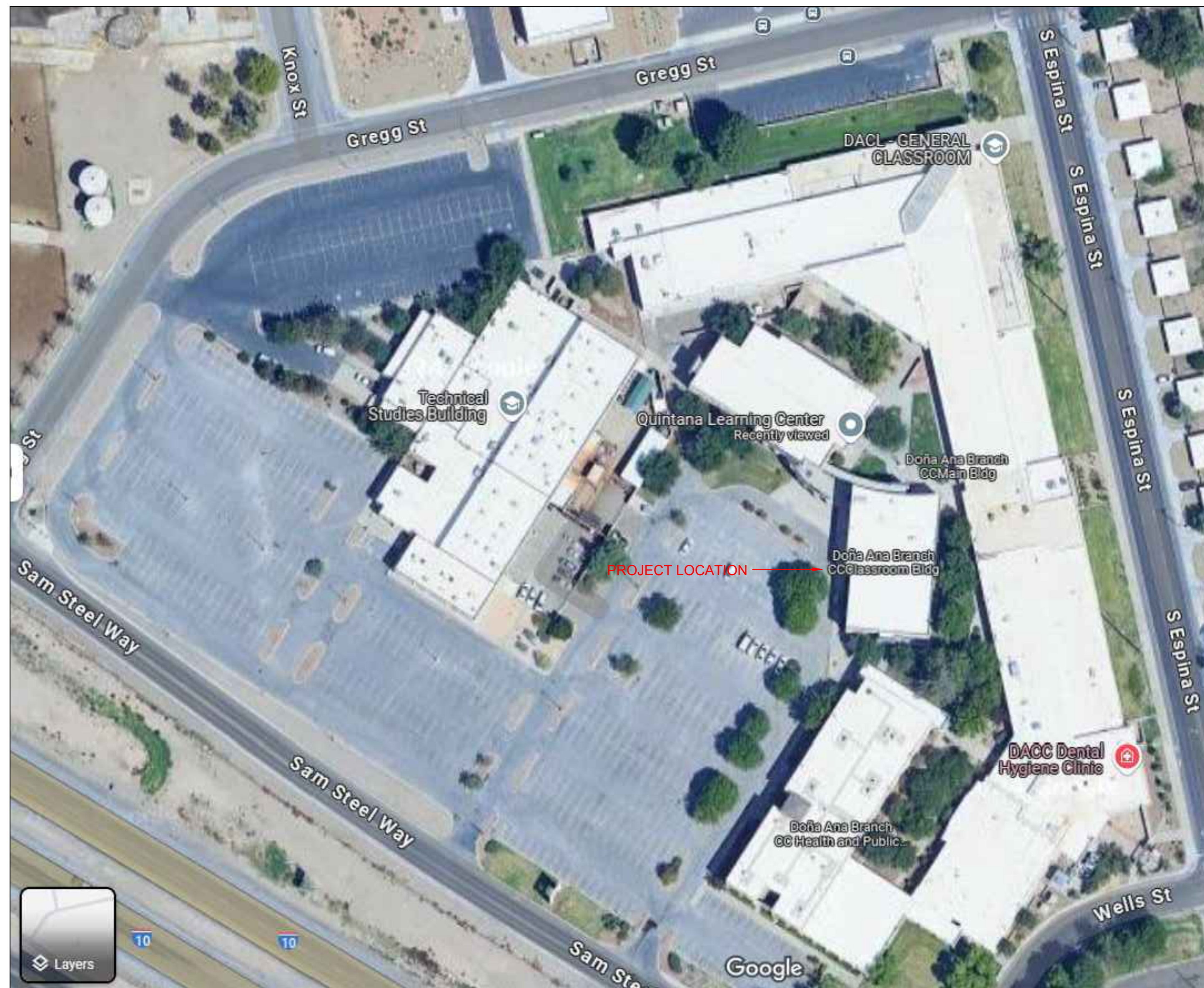
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NAME: WAYNE COBB, CET  
 NICET SUB FIELD: FIRE ALARM SYSTEMS  
 NICET LEVEL: III  
 CERTIFICATE #: #113316  
 CERT. EXP. DATE: APRIL 01, 2026  
 SIGNATURE: *(Signature)*

SCALE: NONE  
 DATE: 11.28.24  
 DRAWN BY: GINA GRIFFIN  
 IMAGE: 505-379-6902  
 SHEET NO.: 2 OF 6

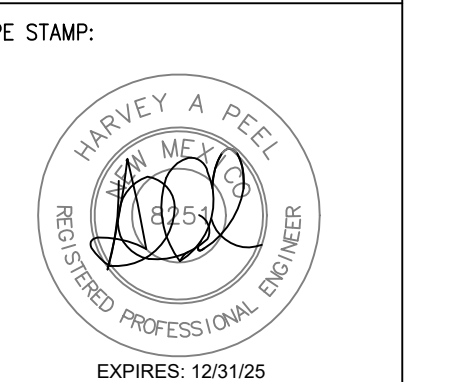




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VOICE EVACUATION FIRE ALARM SYSTEM  
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DATE: 11.29.24
DRAWN BY: GINA GRIFFIN IMAGE: 505-379-6902
SHEET NO.

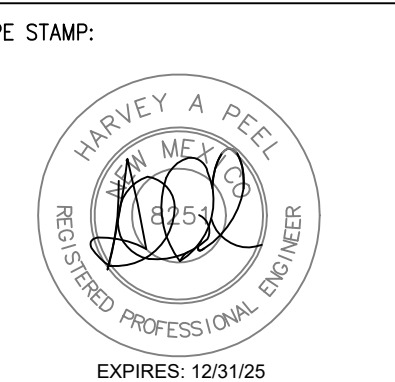
NAME: WAYNE COBB, CET  
NICET SUB FIELD: FIRE ALARM SYSTEMS  
NICET LEVEL: III  
CERTIFICATE #: #113316  
CERT. EXP. DATE: APRIL 01, 2026  
SIGNATURE: *[Signature]*



REV	DATE	DESCRIPTION
1	11.29.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM  
FLOOR PLAN  
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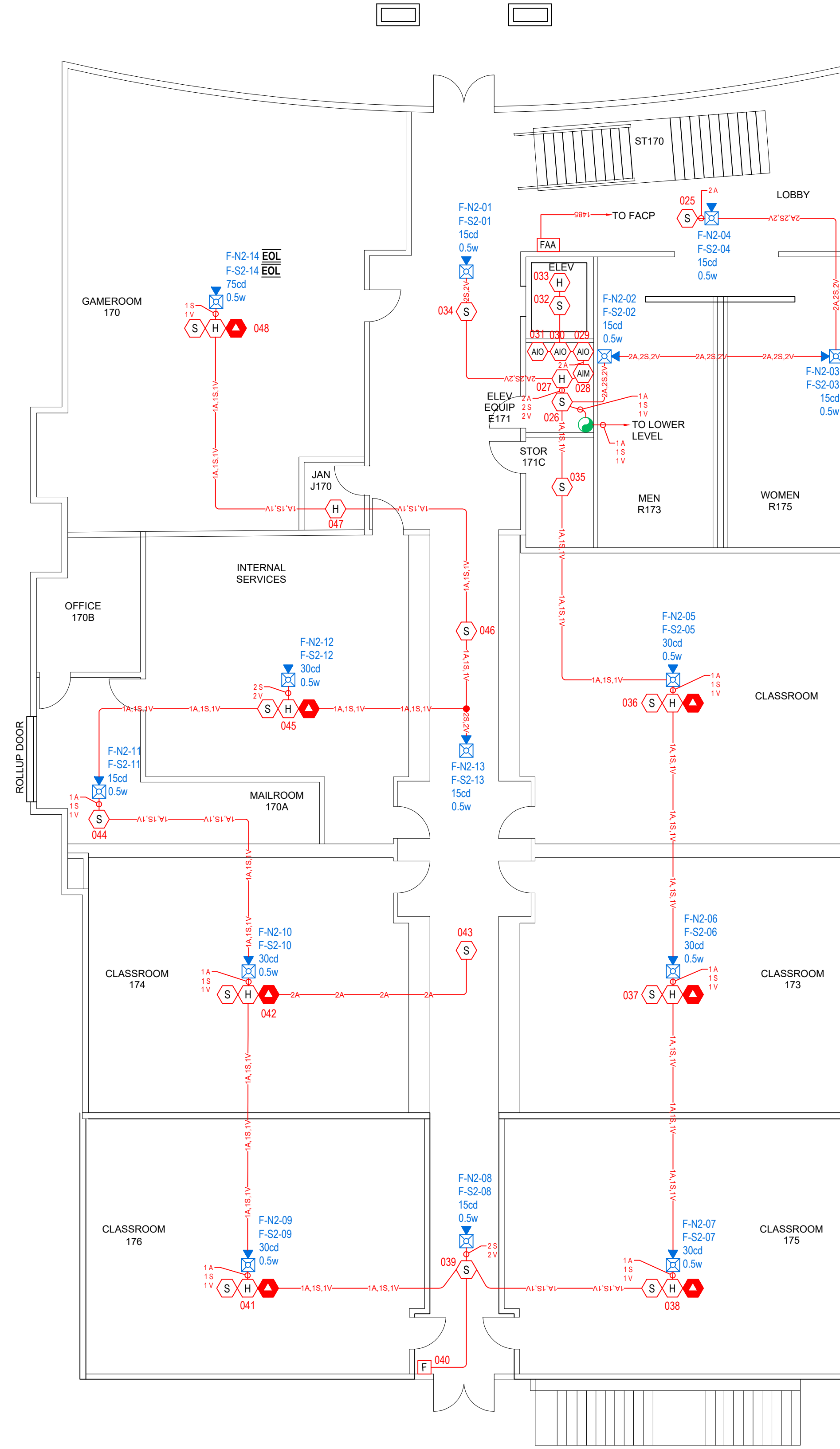
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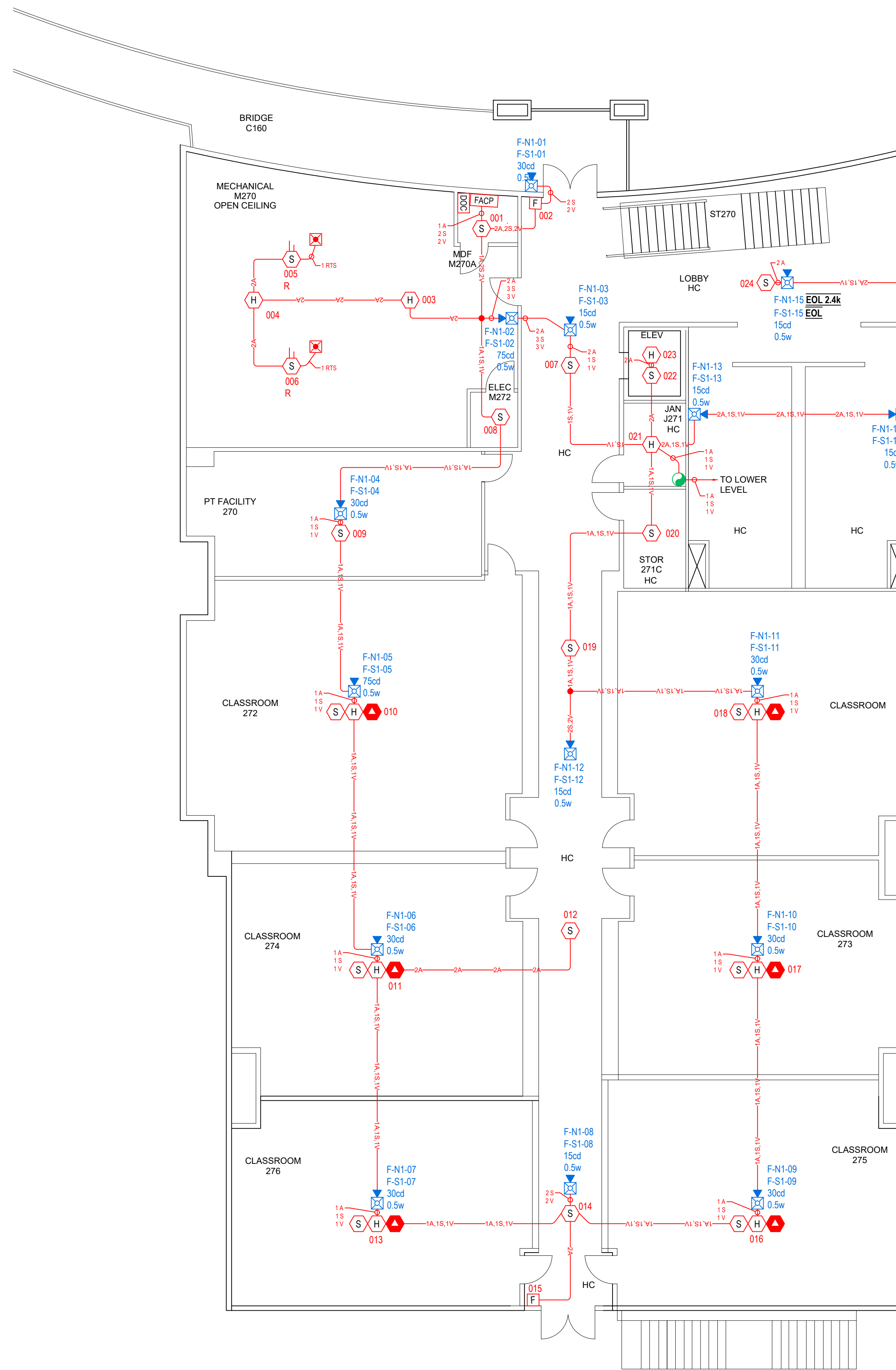
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NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATE #:	#113316
CERT. EXP. DATE:	APRIL 01, 2026

**GENERAL NOTES:**

- REFER TO SHEET 2 FOR ADDITIONAL INFORMATION APPLICABLE TO THIS PROJECT.
- ALL CONDUITS SHOWN ON PLANS ARE 3/4" DIAMETER EMT UNLESS OTHERWISE INDICATED.
- 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.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL CONDUIT AND STANDARD BACK BOXES AS INDICATED FOR FIRE ALARM.
- 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.
- DO NOT COMBINE CIRCUIT RUNS SHOWN ON DRAWINGS OR DEVIATE FROM POINT TO POINT ROUTING UNLESS WRITTEN APPROVAL IS OBTAINED FROM FIRE ALARM CONTRACTOR.
- NO T-TAPS ALLOWED ON SLC OR NAC CIRCUITS.



**FLOOR PLAN - 1ST FLOOR**  
SCALE: 1/8" = 1'-0"  
PLAN NORTH



**FLOOR PLAN - 2ND FLOOR**  
SCALE: 1/8" = 1'-0"  
PLAN NORTH

NAME: WAYNE COBB, CET  
NICET SUB FIELD: FIRE ALARM SYSTEMS  
NICET LEVEL: III  
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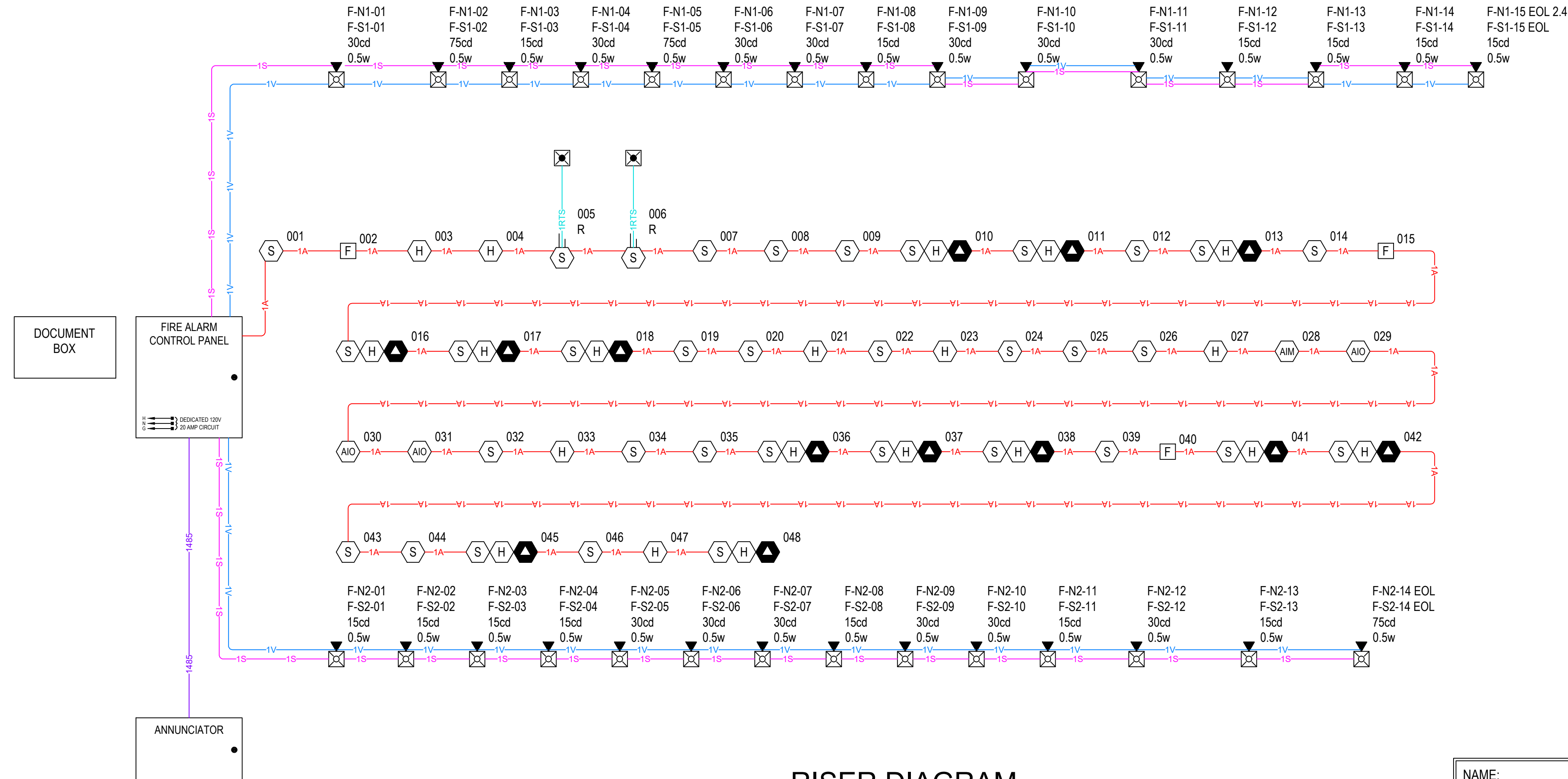


PANEL F (RISER) BATTERY CALCULATION									
SECONDARY POWER SOURCE REQUIREMENTS									
TOTAL USED CAPACITY (IN ALARM) = 5.20125 (45.23 %)									
PANEL POWER SUPPLY MAX CURRENT = 11.5A									
TOTAL USED CAPACITY (IN ALARM) = 5.20125 (45.23 %)									
QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	STANDBY CURRENT (AMPS)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	STANDBY CURRENT (AMPS)	TOTAL (A)
1	FC2015-U1	Driver module (DAC1)	0.025	0.025	0.025	0.025	0.025	0.025	0.025
1	FC2016-U1	RS485 class A module (fac)	0.075	0.075	0.075	0.075	0.075	0.075	0.075
1	FC2031-A1	Used for communication between an FC2018/FC2019 operating unit and other the VCC2001 Voice CPU for fire alarm panels) or the FC2012 Ethernet Switch (for fire only panels). The FC2031 mounts in Position 1 on an FC2018/FC2019 operating unit.	0	0	0	0.1	0.1	0	0.1
1	FC2011-U1	MAC module (1A/2B)	0.04	0.04	0.04	0.04	0.04	0.04	0.04
1	FC2018-U1	Fire alarm board (2A/2B)	0.11	0.11	0.11	0.136	0.136	0.11	0.136
1	FP2012-U1	300W power supply	0	0	0	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 VCC2002 card cage (2nd slot from the left) and works with the VCC2002 Voice IO card to control the voice system.	0.2	0.2	0.2	0.21	0.21	0.2	0.21
1	VCC2002-A1	Voice IO Card Input/Output card for the voice system. The VCC2002 gets mounted in the VCC2002 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	0.151	0.156	0.156	0.151	0.156
1	VC0001-U1 (70.7V)	CARD 500V VOICE AMPLIFIER CARD 10.7 VOLTS	0.33	0.33	0.33	3.2	3.2	0.33	3.2
1	VT02001-U3	Option module (24 switches) Cerberus PRO switch module used on P922/P924 to add manual voice control. Up to four VT02001-U3s can be supported on a single panel enclosure.	0.017	0.017	0.017	0.143	0.143	0.017	0.143
1	VT02004-U3	Option module (microphone) Cerberus PRO microphone module used on P922/P924 to add a paging microphone. The VT02004-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 in a panel enclosure.	0.029	0.029	0.029	0.054	0.054	0.029	0.054
CIRCUIT	SYMBOL	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	TOTAL (A)
F-ANN-BUS PRI	[Symbol]	1	FT2014-R3	Annunciator display (H0)	0	0	0	0	0
F-L1	[Symbol]	2	F082492-HR w/CP921	QUICK RELEASE 2 WIRE WITH RELAY FOR ADDRESSABLE SYSTEMS w/ CP921	0.0003	0.0006	0.0003	0.0006	0.0006
	[Symbol]	7	H921 w/DB-11 BASE	Thermal Head Detector use with DB-11 Detector Base	0.0003	0.0021	0.0003	0.0021	0.0021
	[Symbol]	13	O0HC3M1	Multi-Criteria Fire TCO Detector	0.0004	0.0052	0.0004	0.0052	0.0052
	[Symbol]	19	OP921 w/DB-11	Smoke Detector w/ Base	0.0003	0.0057	0.0003	0.0057	0.0057
	[Symbol]	2	WIREPATH RISER	WIREPATH RISER	0	0	0	0	0
F-N1	[Symbol]	3	XMS-D	MANUAL STATION-DUAL ACTION	0.0005	0.0015	0.0005	0.0015	0.0015
	[Symbol]	3	XTR-R	Single Input Monitor Module with Relay with Bulb-in Indicator	0.00075	0.00225	0.00075	0.00225	0.00225
	[Symbol]	1	XTR-S	Single Input Monitor Module with Bulb-in Indicator	0.00065	0.00065	0.00065	0.00065	0.00065
	[Symbol]	4	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	0	0	0.022	0.088	0.022
	[Symbol]	6	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	0	0	0.022	0.132	0.022
F-N2	[Symbol]	1	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	0	0	0.03	0.18	0.03
	[Symbol]	2	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	0	0	0.022	0.044	0.022
	[Symbol]	5	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	0	0	0.022	0.11	0.022
	[Symbol]	6	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	0	0	0.03	0.18	0.03
	[Symbol]	1	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	0	0	0.06	0.06	0.06
F-S1	[Symbol]	2	WIREPATH RISER	WIREPATH RISER	0	0	0	0	0
	[Symbol]	1	SET-S17-R-WP	ET SPKR 15/75 STROBE RED WEATHERPROOF 30cd	0	0	0.146	0.146	0.146
	[Symbol]	11	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 0.5w	0	0	0	0	0
F-S2	[Symbol]	3	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 0.5w	0	0	0	0	0
	[Symbol]	2	WIREPATH RISER	WIREPATH RISER	0	0	0	0	0
TOTAL STANDBY (A)					0.995	TOTAL ALARM (A)		5.20125	
SECONDARY STANDBY LOAD (A)					0.995	REQUIRED STANDBY TIME = 24 HOURS		23.88	
SECONDARY ALARM LOAD (A)					5.20125	REQUIRED ALARM TIME = 15 MINUTES		1.3	
STANDBY AND ALARM SUBTOTAL (AMP-HOURS)								25.18	
DERATING FACTOR								1.2	
SECONDARY LOAD REQUIREMENTS (AMP-HOURS)								30.22	
PROVIDE (2) 12V 33AH BATTERIES									
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.									

### CALCULATIONS

F-N1 LUMP SUM REPORT									
CIRCUIT SETTINGS									
TOTALS									
Starting Calculation Voltage:		20.4		Max. Voltage Drop:		1.33			
Min. Operational Voltage:		16		End Of Line Voltage:		19.07			
Max. Circuit Current (A):		3		Voltage Drop Percent:		6.53 %			
Wire Resistance (DAVF):		3.07		Total Circuit Current (A):		6.579			
Total Circuit Length (Ft):		379		Spare Current (A):		2.442			
Distance measured using down segment lengths with 10.00 % additional length calculated:		2.30502		Spare Current (A) Percent:		80.73 %			
Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	4	0.022	0.088				
[Symbol]	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	2	0.022	0.044				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 30cd	6	0.03	0.18				
[Symbol]	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	1	0.06	0.06				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	1	0.06	0.06				
[Symbol]	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/F) x 2 x Total Circuit Length (Ft)									
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)									

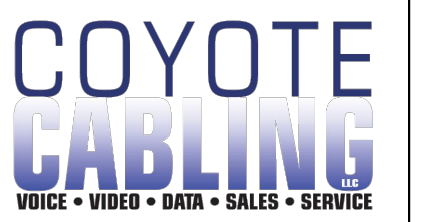
F-N2 LUMP SUM REPORT									
CIRCUIT SETTINGS									
TOTALS									
Starting Calculation Voltage:		20.4		Max. Voltage Drop:		1.23			
Min. Operational Voltage:		16		End Of Line Voltage:		19.17			
Max. Circuit Current (A):		3		Voltage Drop Percent:		6.05 %			
Wire Resistance (DAVF):		3.07		Total Circuit Current (A):		6.394			
Total Circuit Length (Ft):		510		Spare Current (A):		2.896			
Distance measured using down segment lengths with 10.00 % additional length calculated:		3.13179		Spare Current (A) Percent:		86.87 %			
Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)				
[Symbol]	WIREPATH RISER	WIREPATH RISER	2	0	0				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	5	0.022	0.11				
[Symbol]	SL2SPSWR-F	Speaker-Stroke, Wall, Clear, Red, Fire 15cd	2	0.022	0.044				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 30cd	6	0.03	0.18				
[Symbol]	SL2SPSCW-F	Speaker-Stroke, Ceiling, Clear, White, Fire 15cd	1	0.06	0.06				
Calculation Methods:									
Total Resistance (Ω) = Wire Resistance (Ω/F) x 2 x Total Circuit Length (Ft)									
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)									



### RISER DIAGRAM

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

SIGNATURE:



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	11-29-24	FIRE MARSHAL SUBMITTAL

### VOICE EVACUATION FIRE ALARM SYSTEM RISER DIAGRAM

DONA ANA COMMUNITY COLLEGE  
 DACL CLASSROOM BUILDING  
 3400 S. ESPINA ST  
 LAS CRUCES NM 88003

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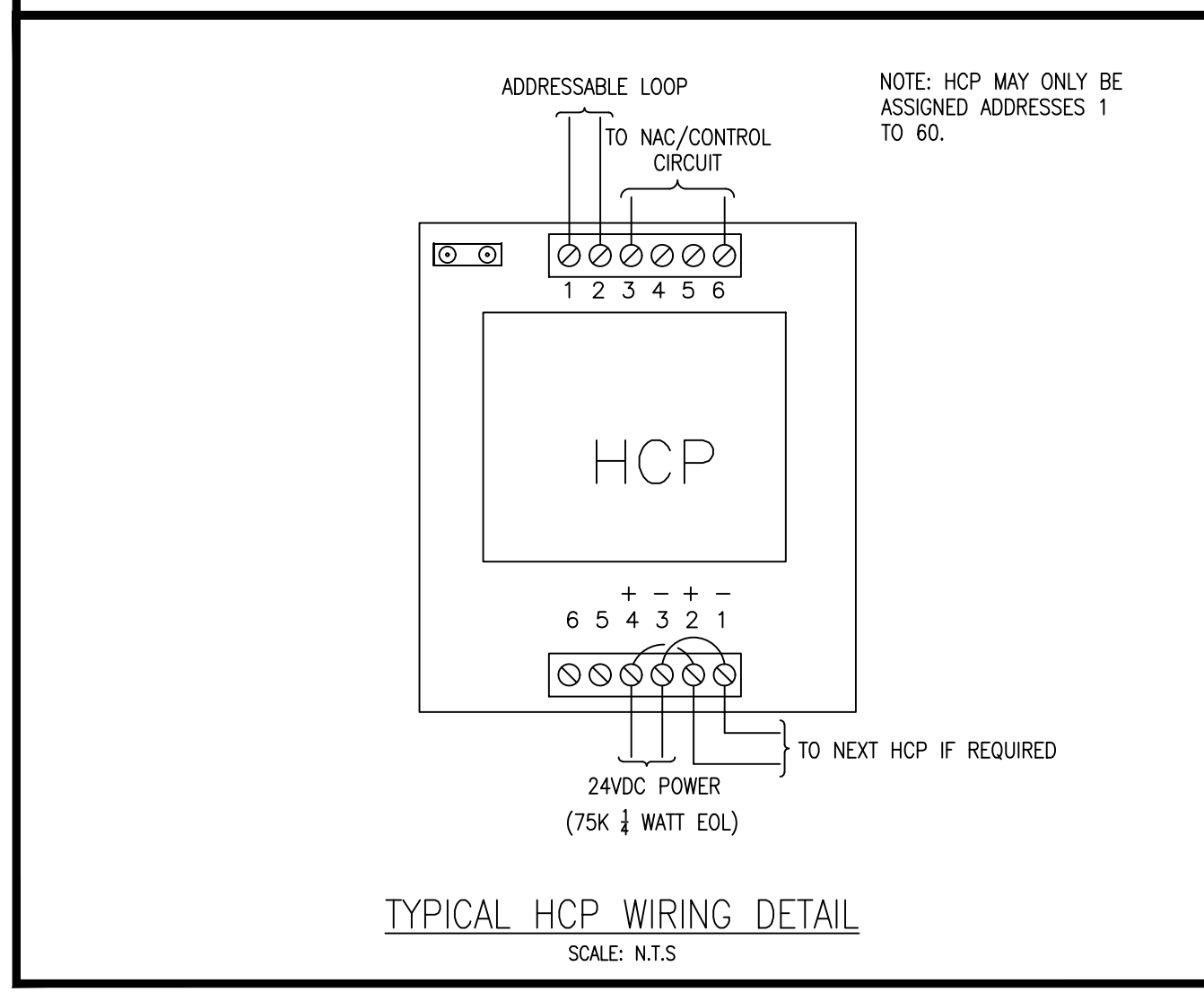
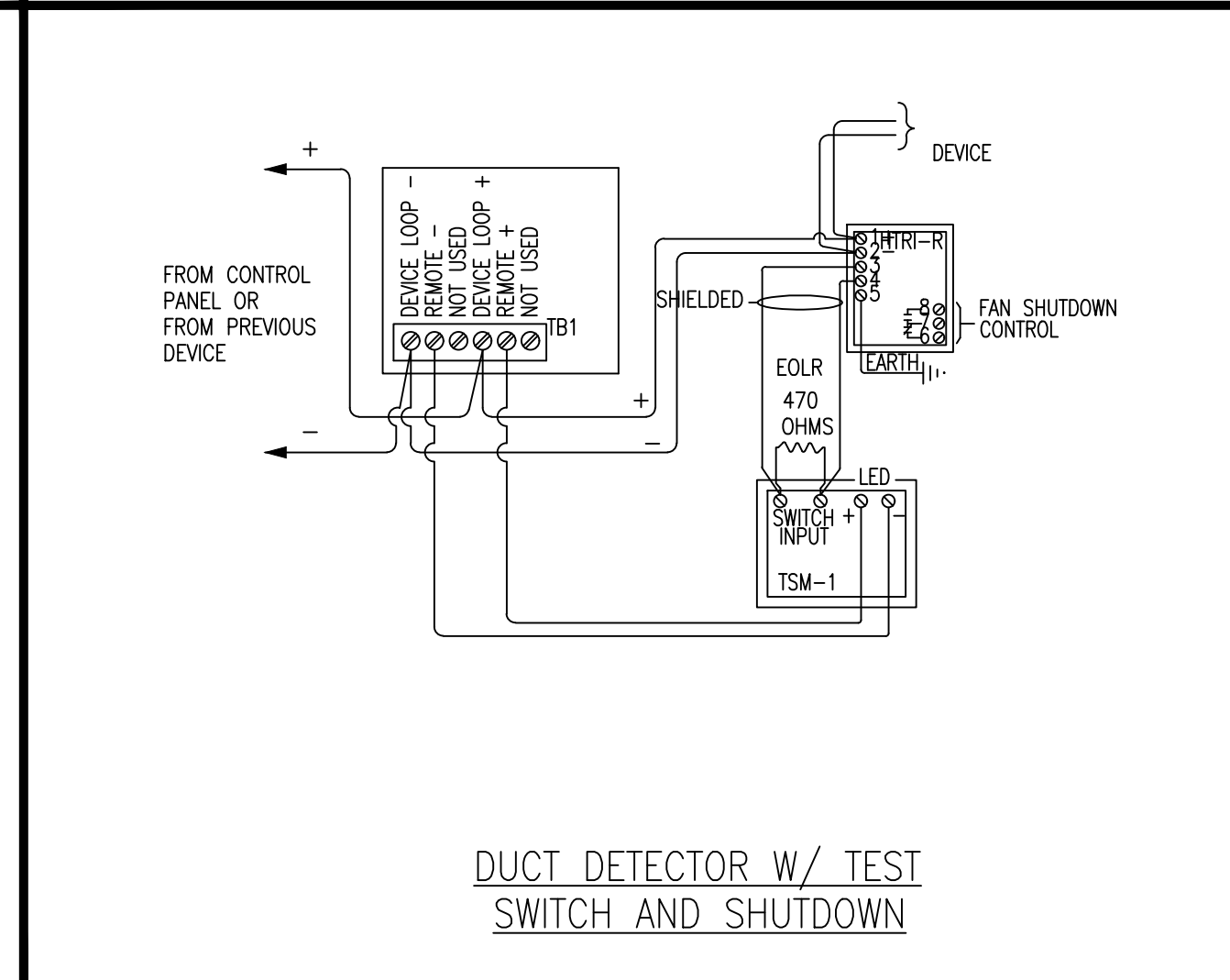
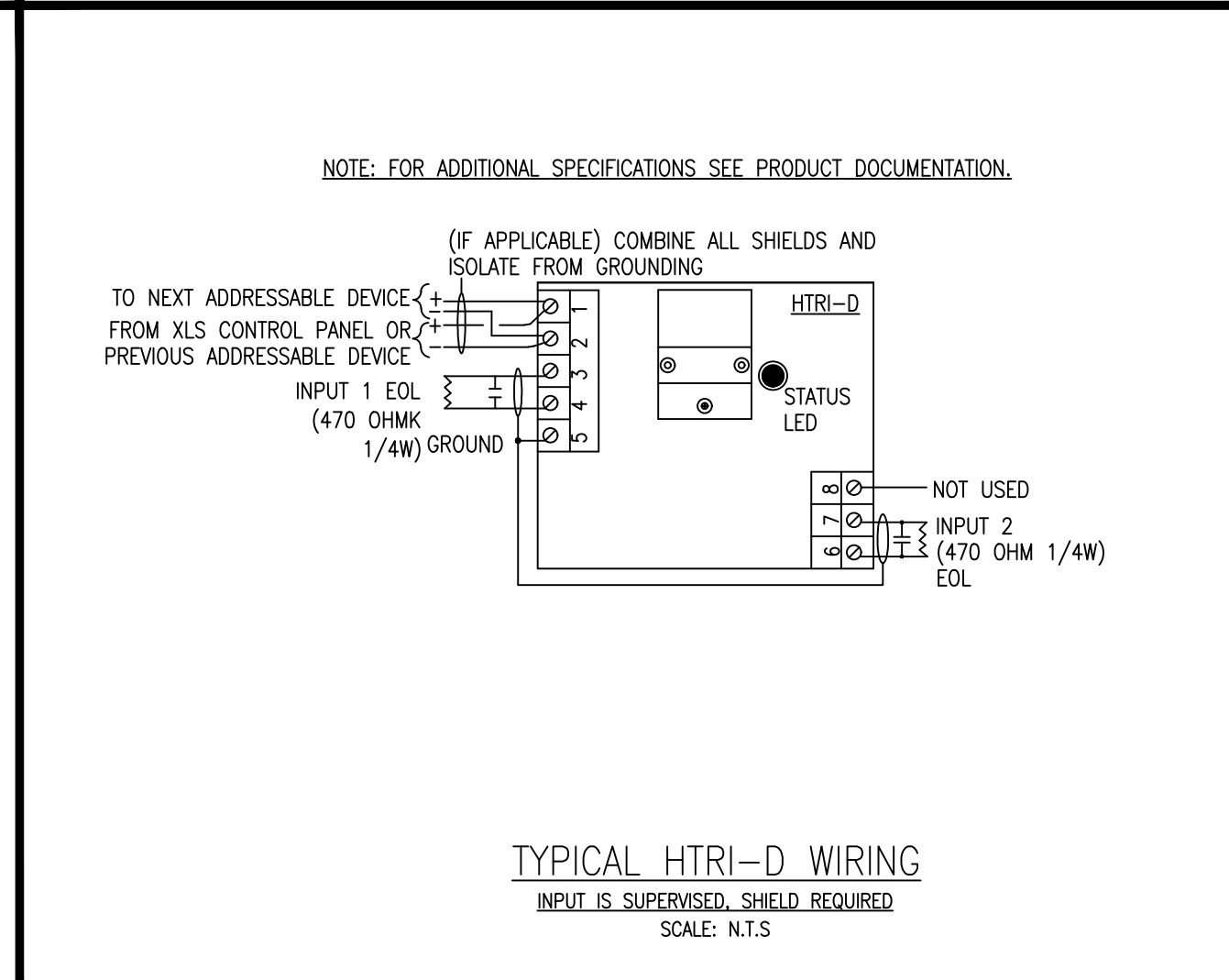
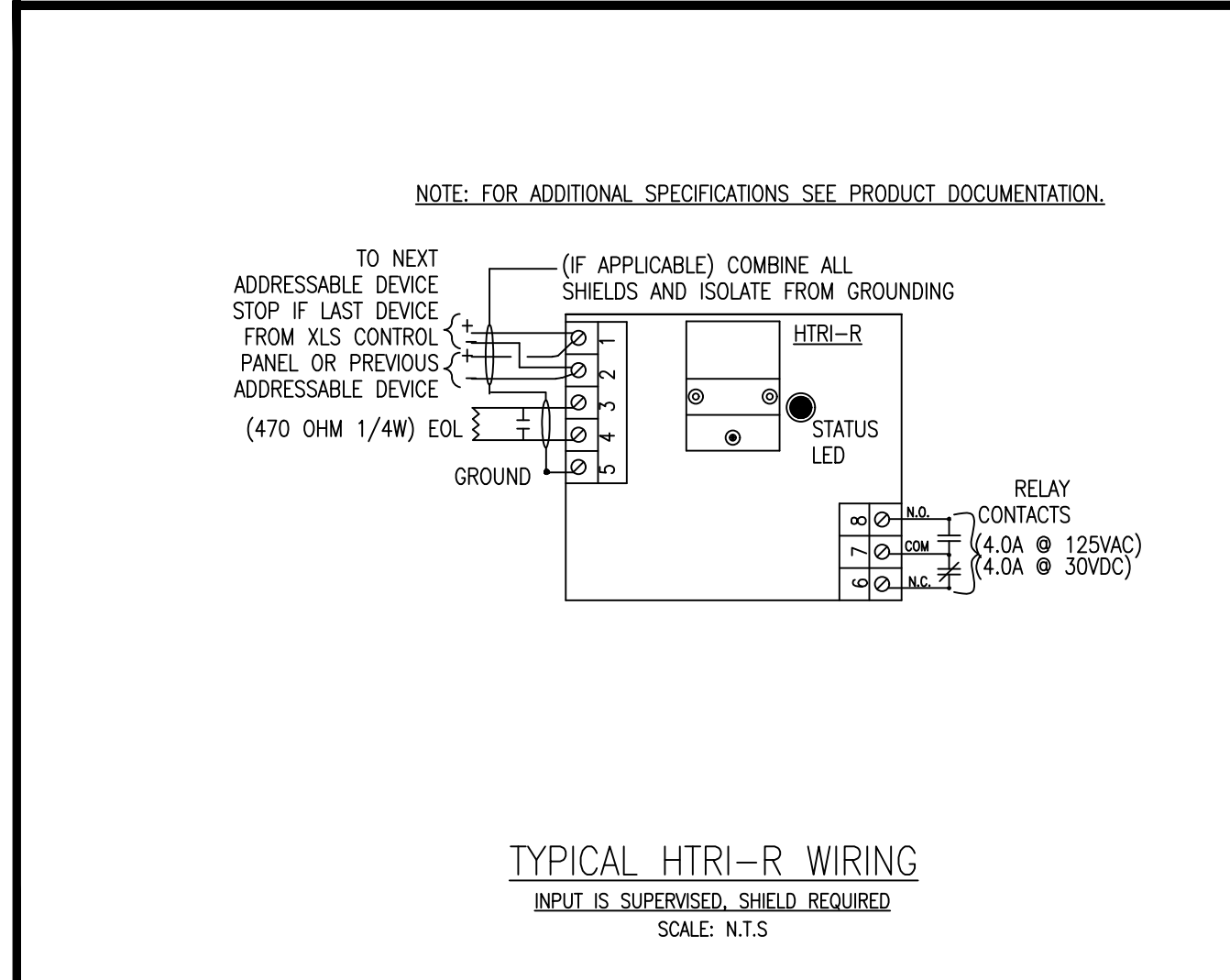
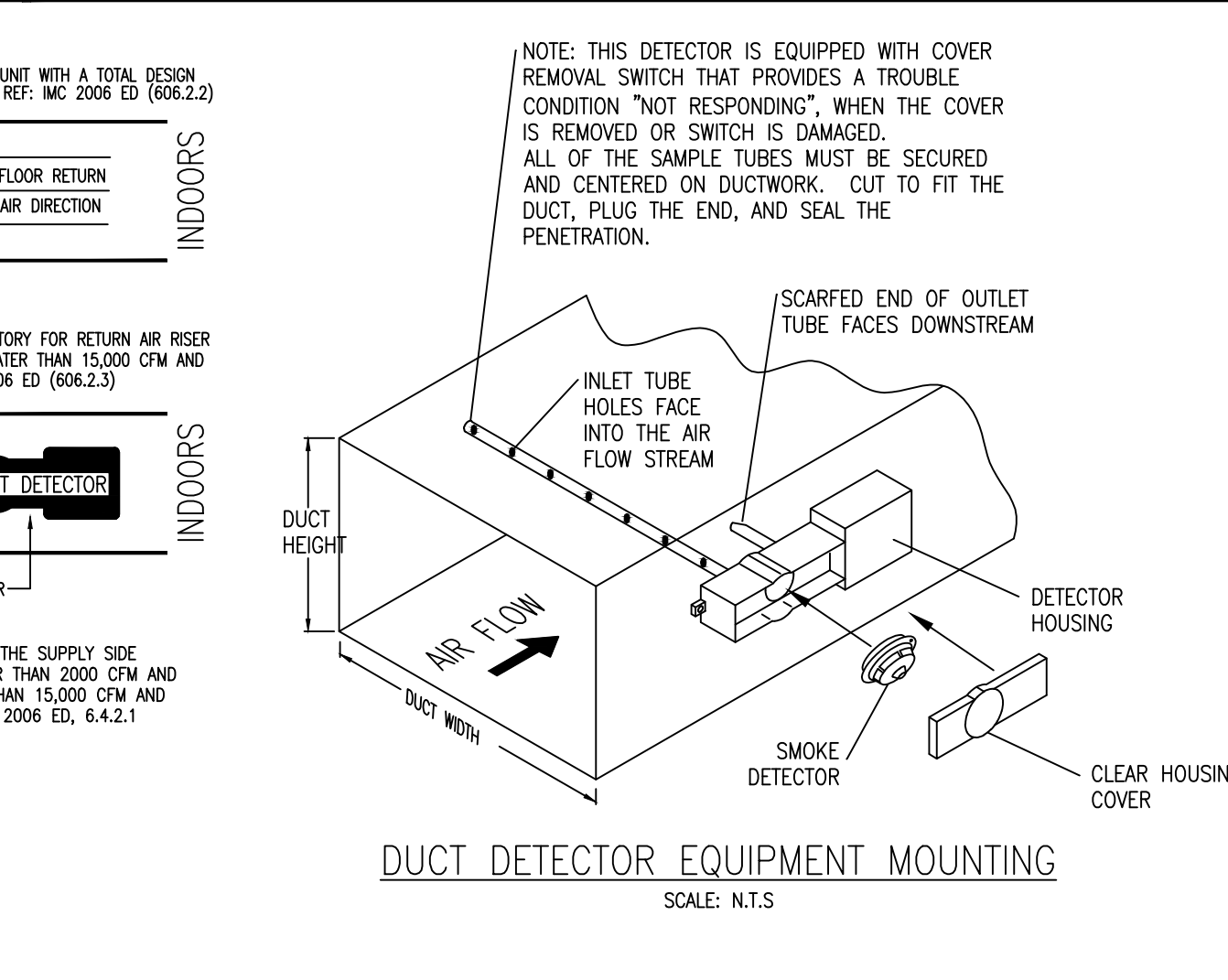
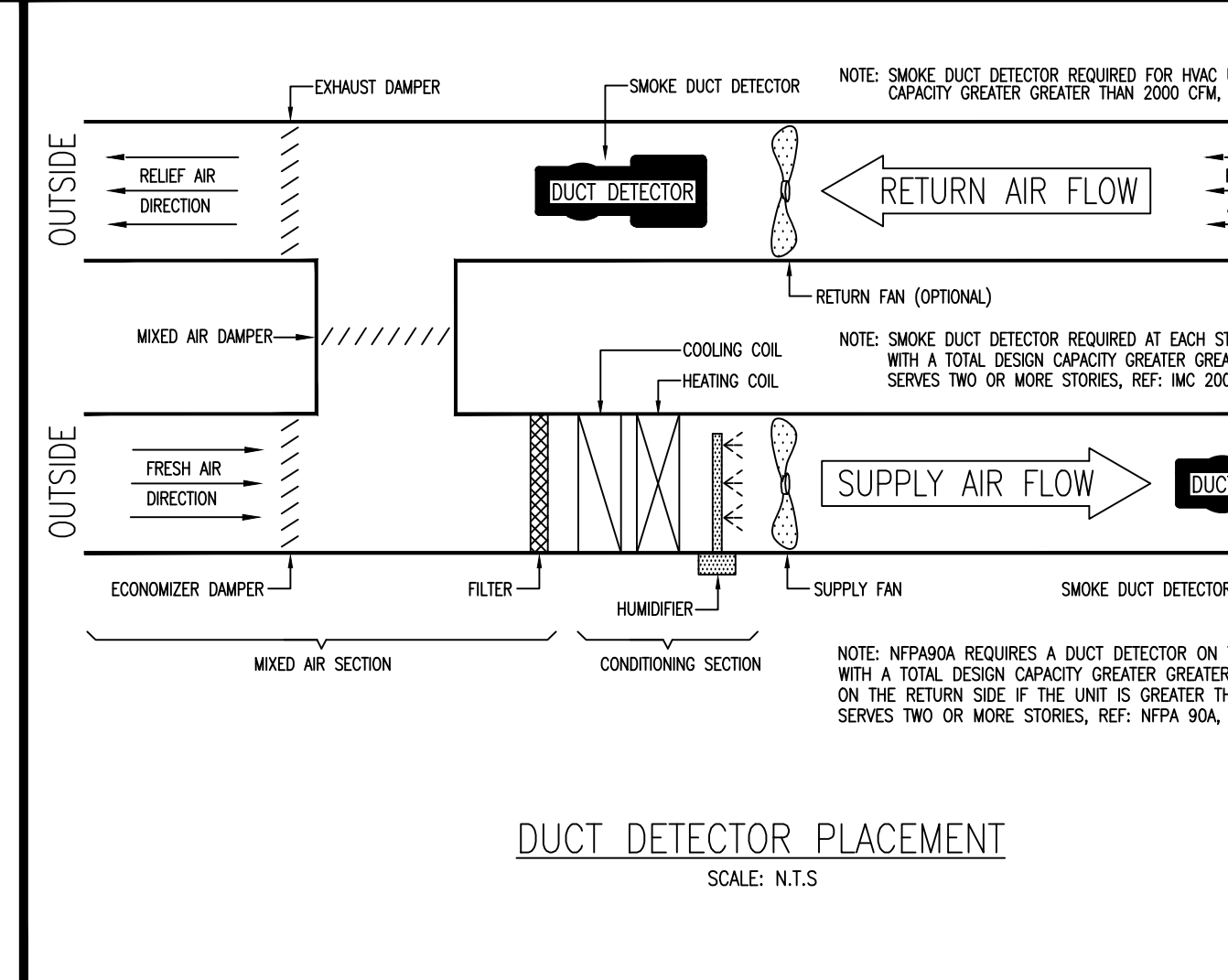
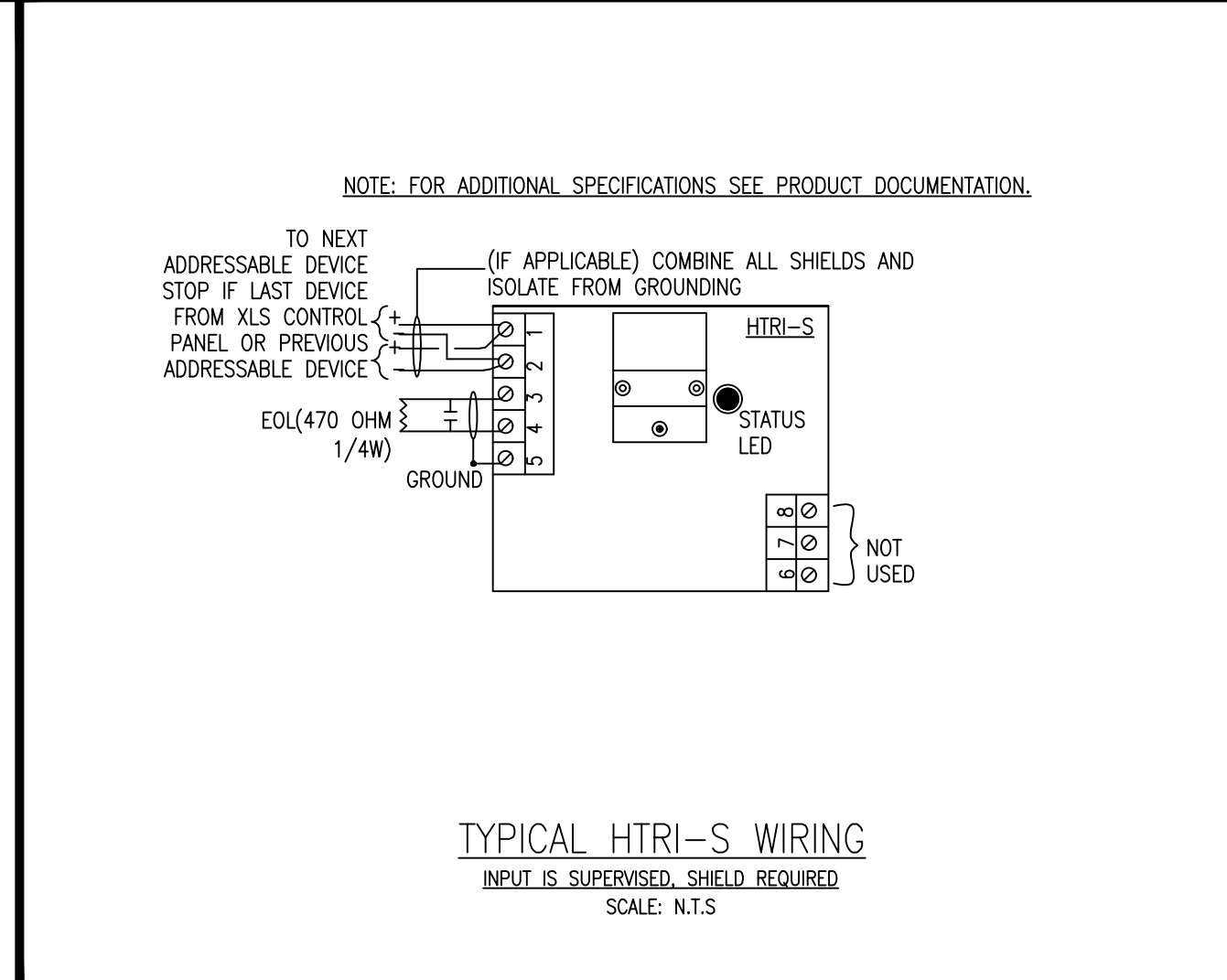
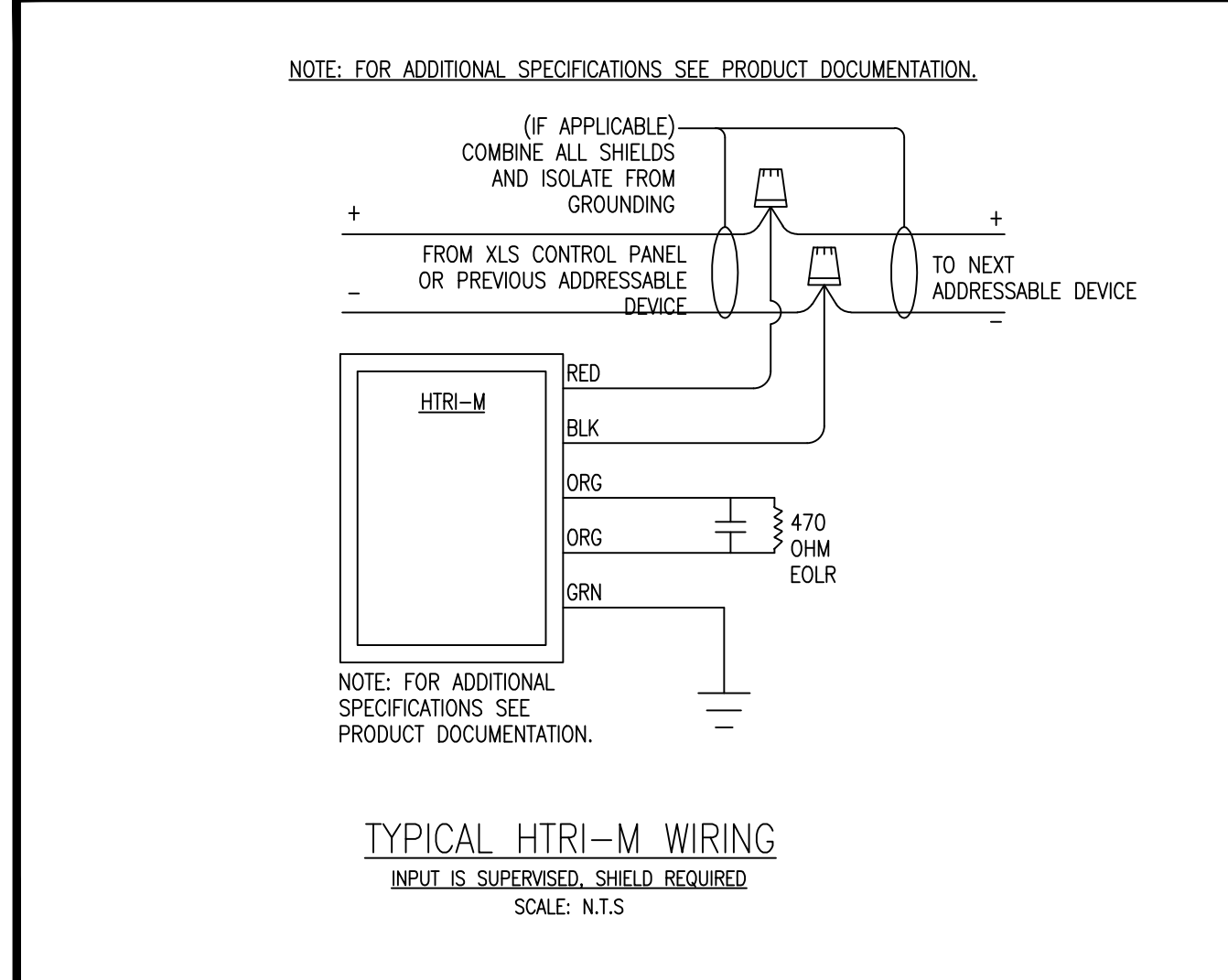
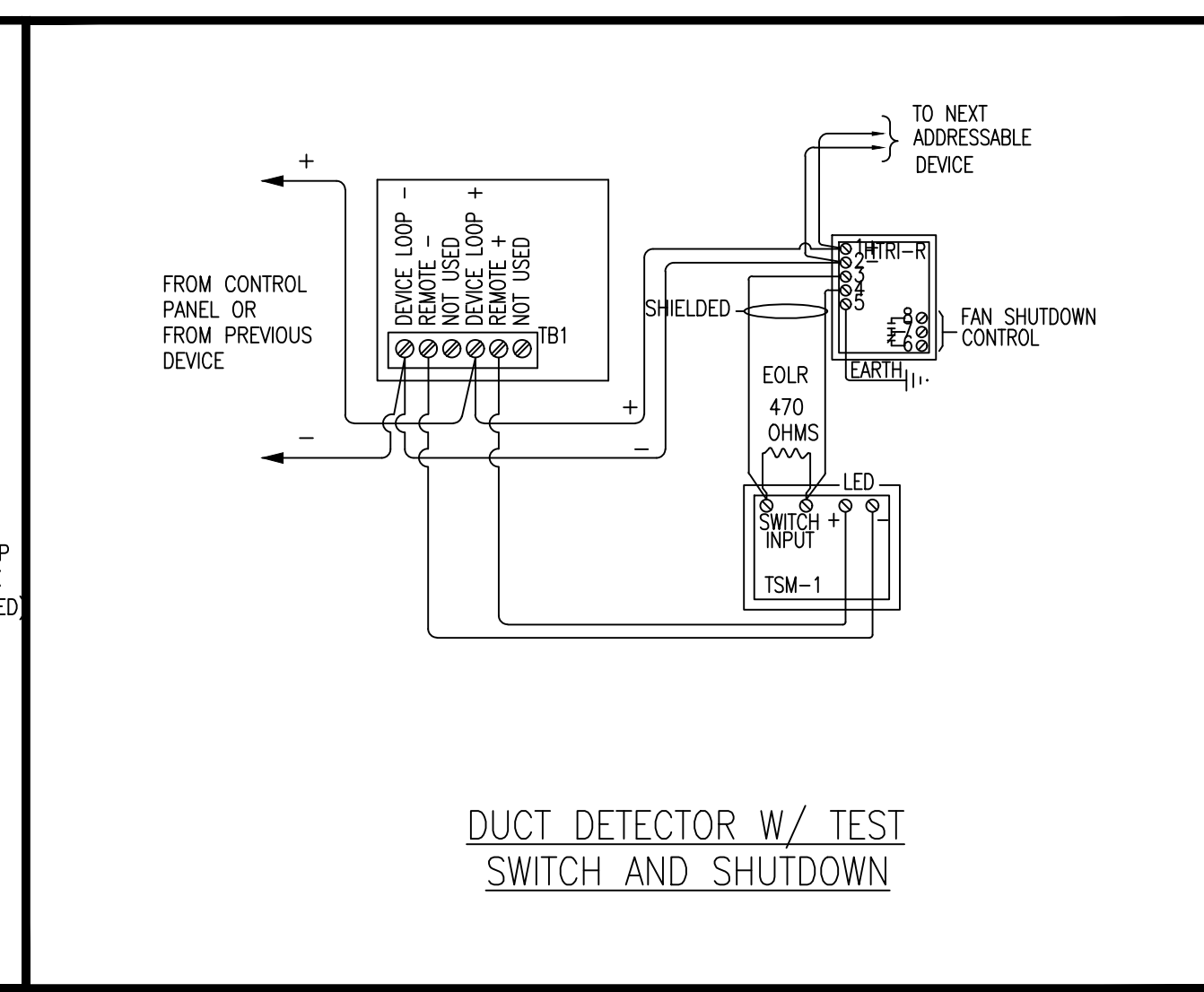
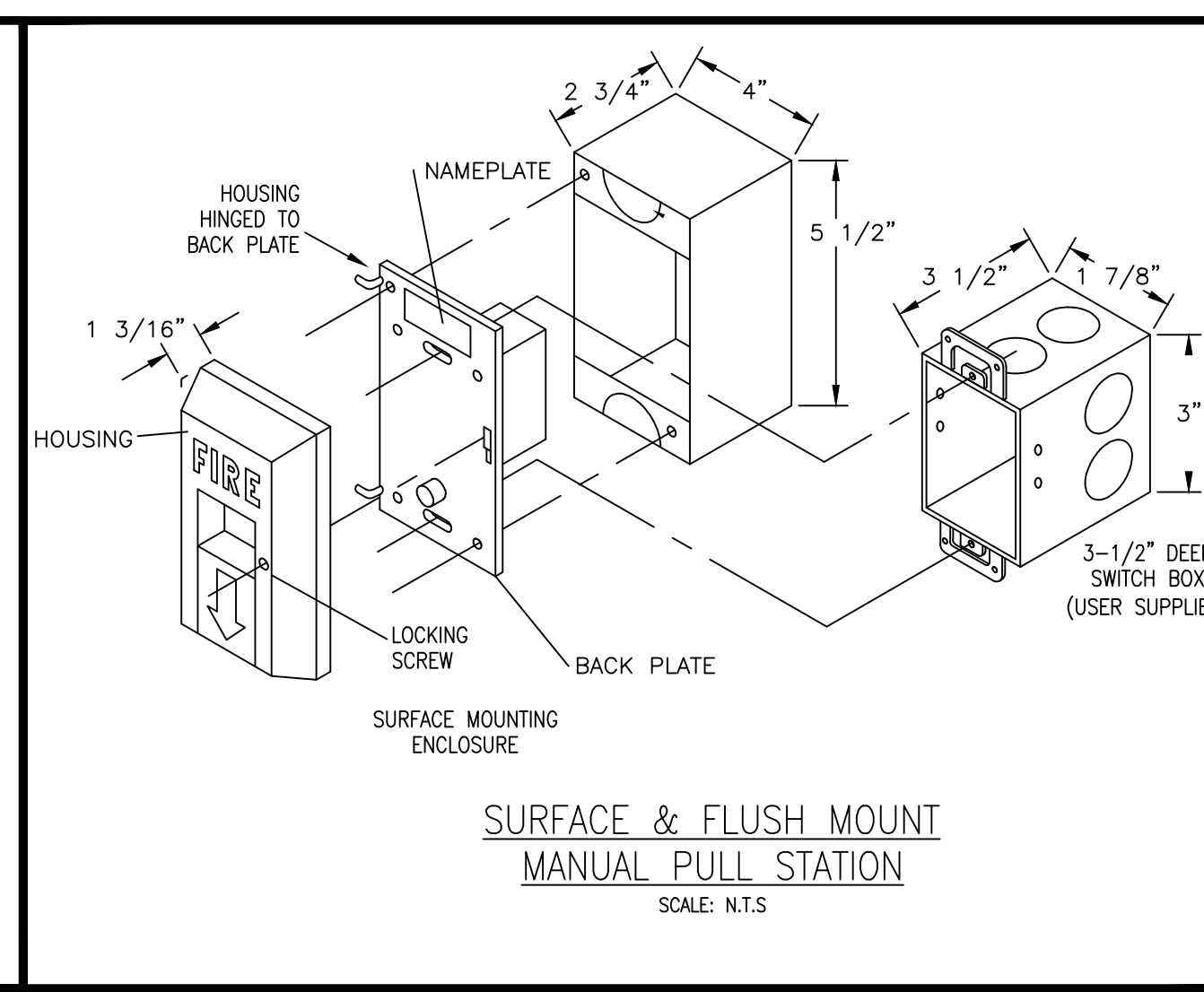
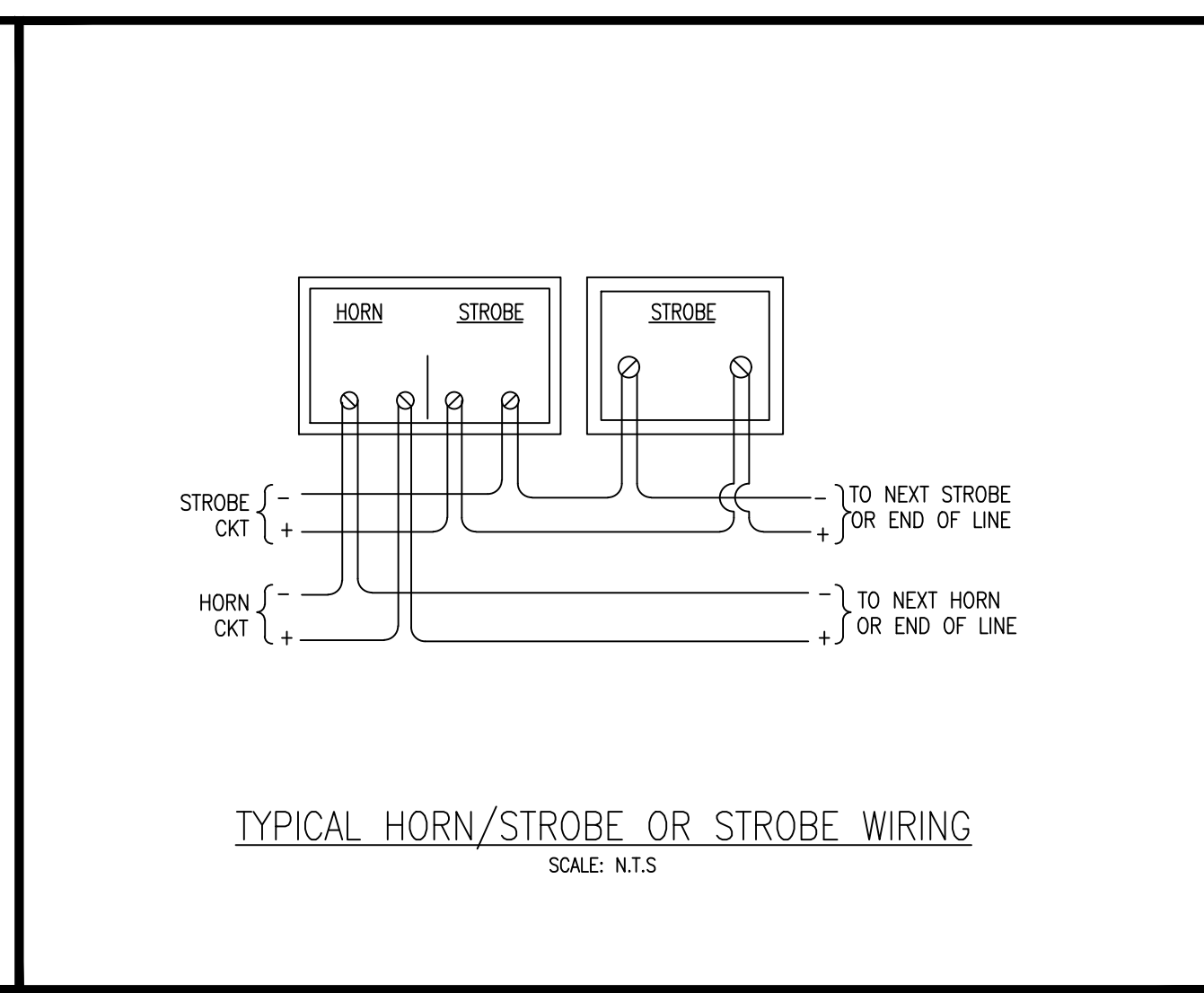
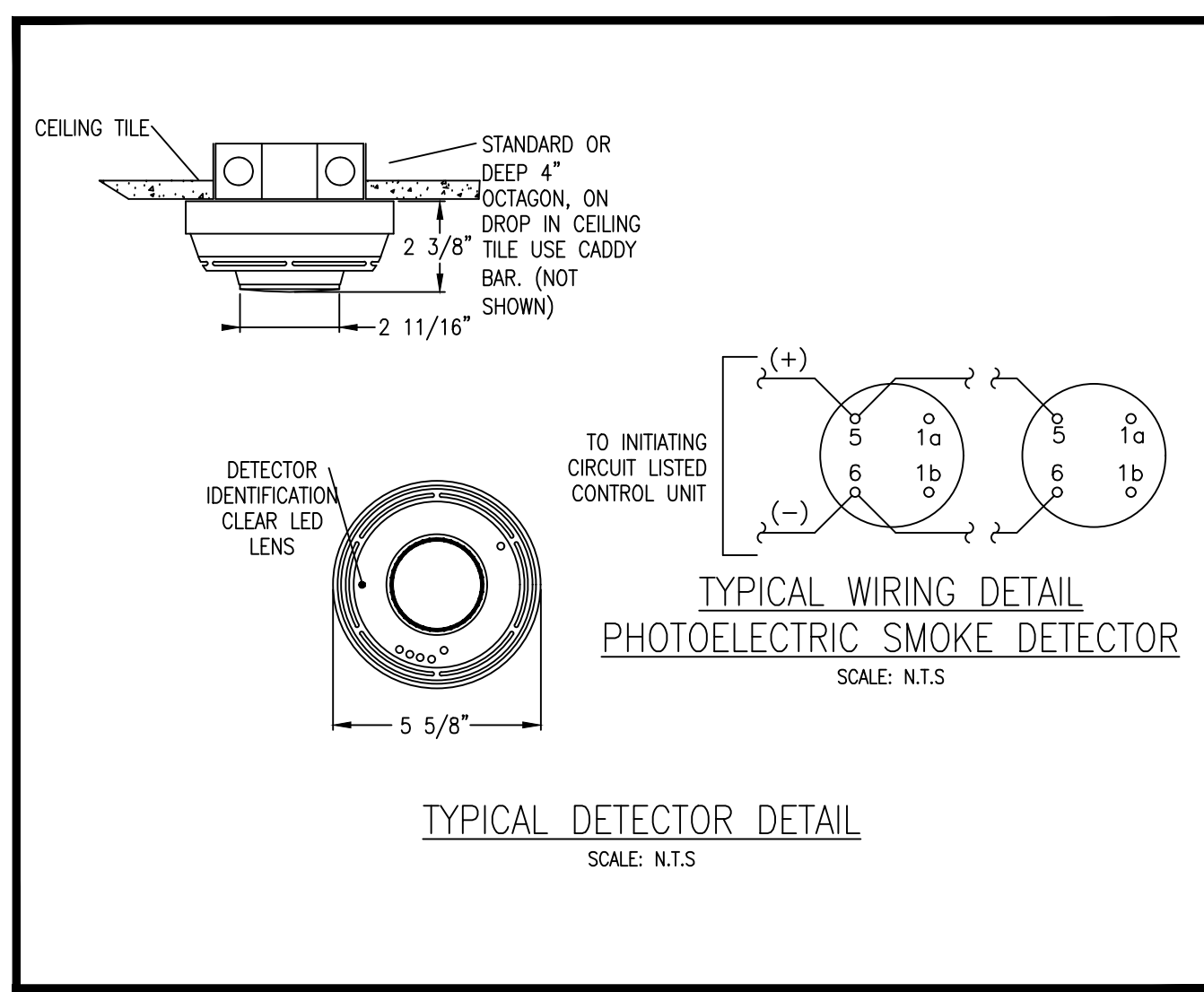
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 DRAWN BY: GINA GRIFFIN  
 IMAGE: 505-379-6902

SHEET NO.

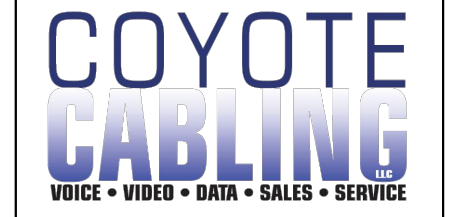




**TYPICAL DETAILS**

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

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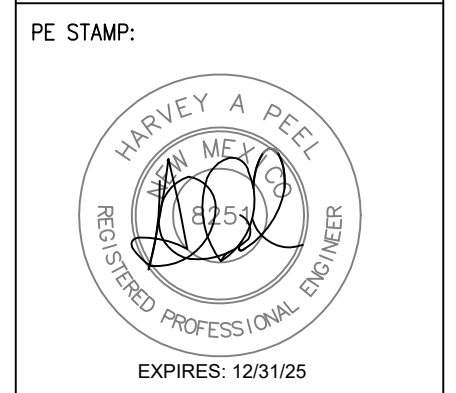
LICENSE #: 60098

REV	DATE	DESCRIPTION
1	11.29.24	FIRE MARSHAL SUBMITTAL

VOICE EVACUATION FIRE ALARM SYSTEM  
 TYPICAL DETAILS

DONA ANA COMMUNITY COLLEGE  
 DACL CLASSROOM BUILDING  
 3400 S. ESPINA ST  
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DATE: 11.29.24
DRAWN BY: GINA GRIFFIN IMAGE: 505-379-6902
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