

**CLUCK & STACK**  
**SOUTH HILL MALL #1315**  
**3500 SOUTH MERIDIAN, SPACE #F8**  
**PUYALLUP, WA 98373**  
**FIRE ALARM TENANT IMPROVEMENT DRAWINGS**



**FIRE ALARM SYMBOL LEGEND**  
NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

QTY	SYMBOL	DESCRIPTION	MANUF. & PART #	MOUNTING	MOUNT IN
E		FIRE ALARM CONTROL PANEL	EXISTING	WALL - TOP @ 66"	EXISTING TO REMAIN
1		KITCHEN HOOD SUPPRESSION SYSTEM	BY OTHERS	FIELD VERIFY	PROVIDED, POWERED, INSTALLED BY OTHERS
1		MONITOR MODULE	NOTIFIER - FMM-1	FIELD VERIFY	4 SQ. DEEP - MOUNTED FLUSH
9		SMOKE DETECTOR (NEW)	NOTIFIER - FSP-951-IV	CEILING	ON DETECTOR BASE
9		SMOKE DETECTOR BASE (NEW)	NOTIFIER - B300-6-IV	CEILING	EXISTING TO REMAIN
1		STROBE; WALL MOUNTED, WHITE	SYSTEM SENSOR - SWLED	CEILING	ON DETECTOR BASE
3		SPEAKER STROBE; CEILING MOUNTED, WHITE	SYSTEM SENSOR - SPSCWLED	CEILING	EXISTING TO REMAIN

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
E	EXISTING	AWG	AMERICAN WIRE GAUGE
AC	ABOVE CEILING	TWP	TWISTED PAIR
P	PENDENT MOUNT	TWSP	TWISTED SHIELDED PAIR
R	REMOVE AND RELOCATE	FPLP	FIRE POWER LIMITED PLENUM
S	SOUNDER BASE	FPLR	FIRE POWER LIMITED RISER
WP	WEATHERPROOF		
EOL	END OF LINE RESISTOR		
EOLR	END OF LINE RELAY		

② - DEVICE ADDRESS [P]  
 L15001 OR M01  
 (S or M - DENOTES SENSOR OR MODULE #)

1-#16/2 TWP  
 WIRE TYPE ABBREVIATED  
 CONDUCTOR COUNT  
 WIRE SIZE  
 # OF CABLES (IF LIMITED  
 ONLY 1 CABLE NEEDED)

15 - STROBE CANDELA 30



CLUCK & STACK - SOUTH HILL MALL  
 3500 SOUTH MERIDIAN, SUITE F8  
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**CODE ANALYSIS**

- BUILDING INFORMATION:**
- A) OCCUPANCY CLASSIFICATION(S): B/M
  - B) OCCUPANCY LOAD(S): 12 OCC
  - C) SPRINKLERS: YES
  - D) CONSTRUCTION TYPE: IIB
  - E) BUILDING HEIGHT: 1 STORY
  - F) PROJECT SQUARE FOOTAGE: ~1,619 S.F.
  - G) APPLICABLE CODES:  
 2021 INTERNATIONAL FIRE CODE  
 2019 NFPA 72  
 2021 NEC  
 STATE AND LOCAL MARSHAL REGULATIONS
  - H) CIRCUIT CLASSIFICATION: POWER LIMITED
  - I) PARCEL NUMBER: 6021010051

**GENERAL NOTES:**

- SCOPE OF WORK: THIS PROJECT SHALL INCLUDE TENANT IMPROVEMENTS TO EXISTING FIRE ALARM SYSTEM AT THE SOUTH HILLS MALL. CONNECT SPEAKER STROBES TO EXISTING SPEAKER AND STROBE CIRCUITS LOCATED IN TENANT SPACE. EXISTING FIRE ALARM POWER SUPPLY TO REMAIN. EXISTING SMOKE DETECTOR TO FIRE ALARM POWER SUPPLY TO REMAIN. CONNECT NEW SLC DEVICES TO EXISTING SLC CKT.
- THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WIRING DEPICTED ON THESE PLANS IS SCHEMATIC - ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
- FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT. THE LOCATION OF THE BRANCH CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT, MECHANICALLY PROTECTED, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE RED AND LABELED "FIRE ALARM CIRCUIT CONTROL" IN ACCORDANCE WITH NFPA 72. ELECTRICAL CONTRACTOR SHALL PERFORM LOAD CALCULATIONS TO DETERMINE SIZE OF WIRING AND BREAKERS FOR ALL FIRE ALARM AC BRANCH CIRCUITS BASED ON THE INFORMATION PROVIDED IN THE BATTERY CALCULATIONS FOR THE FIRE ALARM EQUIPMENT.
- POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
- WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- WHEN UTILIZING SHIELDED CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. CABLES USED IN VERTICAL RUNS SHALL BE TYPE FPLP OR FPLR. CABLE SPLICES OR TERMINATIONS SHALL BE MADE IN LISTED FITTINGS, BOXES, ENCLOSURES, FIRE ALARM DEVICES, OR UTILIZATION EQUIPMENT. WHERE INSTALLED EXPOSED, CABLES SHALL BE ADEQUATELY SUPPORTED AND INSTALLED IN SUCH A WAY THAT MAXIMUM PROTECTION AGAINST PHYSICAL DAMAGE IS AFFORDED BY BUILDING CONSTRUCTION. WHERE LOCATED WITHIN 7 FT OF THE FLOOR, CABLES SHALL BE SECURELY FASTENED IN AN APPROVED MANNER AT INTERVALS OF NOT MORE THAN 18 IN.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MAXIMUM OF 12" FROM CEILING.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.6.6 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.
- ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED WITH PERMANENTLY MOUNTED SIGNS WITH LETTERING NOT LESS THAN 2 INCHES TALL WITH A PRINCIPAL STROKE OF NOT LESS THAN 3/8 INCH. LETTERS SHALL CONTRAST WITH BACKGROUND.

**FIRE RESISTANCE RATINGS OF STRUCTURAL COMPONENTS**

- STRUCTURAL FRAME 0 HOUR RATING
- BEARING WALLS - EXTERIOR & INTERIOR 0 HOUR RATING
- NON-BEARING WALLS 0 HOUR RATING
- FLOOR CONSTRUCTION 0 HOUR RATING
- ROOF FRAMING 0 HOUR RATING

**FACP Additional Load Battery Calculation** 4/27/2026

PROJECT NAME: SOUTH HILLS MALL CLUCK & STACK  
 Required Standby Time: 24 Hours  
 Required Alarm Time: 15 Minutes  
 System Manufacturer: Notifier

**AC Branch Current**

AC Branch Current: 2.08 Amps @ 120V

**Maximum NAC Output**

Panel Max: 6.50 Amps  
 Circuit Max: 3.00 Amps

**Regulated Load in Standby**

Device Type	Model	Number of Devices	Current (Amps)	Total Current (Amps)
SMOKE DETECTOR	FSP-951-IV	4	0.000200	0.000800
MONITOR MODULE	FMM-1	1	0.000375	0.000375
TOTAL STANDBY LOAD 0.001175				

**Regulated Load in ALARM**

Device Type	Model	Number of Devices	Current (Amps)	Total Current (Amps)
SMOKE DETECTOR	FSP-951-IV	4	0.004500	0.018000
MONITOR MODULE	FMM-1	1	0.005000	0.005000
TOTAL ALARM LOAD 0.107000				

**Battery Requirements**

Standby Load Current (Amps)	0.001175	Required Standby Time in Hours	24.00000	Result	0.028200
Alarm Load Current (Amps)	0.107000	Required Alarm Time in Hours	0.250000	Result	0.026750
Total Ampere Hours (before derating factor)					0.054950
Derating Factor			X	1.2	
TOTAL AMPERE HOURS REQUIRED					0.065940

**BATTERIES TO BE PROVIDED (2 - 12v) FIELD VERIFY**

**FPS Additional Load Battery Calculation** 4/27/2026

PROJECT NAME: SOUTH HILLS MALL CLUCK & STACK  
 Required Standby Time: 24 Hours  
 Required Alarm Time: 15 Minutes

**AC Branch Current**

AC Branch Current: 2.08 Amps @ 120V

**Maximum NAC Output**

Panel Max: 6.50 Amps  
 Circuit Max: 3.00 Amps

**Regulated Load in Standby**

Device Type	Model	Number of Devices	Current (Amps)	Total Current (Amps)
TOTAL STANDBY LOAD 0.000000				

**Regulated Load in ALARM**

Device Type	Model	Number of Devices	Current (Amps)	Total Current (Amps)
FPS1.1 (See Voltage Drop Calculations) 0.084000 = 0.084000				
TOTAL ALARM LOAD 0.084000				

**Battery Requirements**

Standby Load Current (Amps)	0.000000	Required Standby Time in Hours	24.00000	Result	0.000000
Alarm Load Current (Amps)	0.084000	Required Alarm Time in Hours	0.250000	Result	0.021000
Total Ampere Hours (before derating factor)					0.021000
Derating Factor			X	1.2	
TOTAL AMPERE HOURS REQUIRED					0.025200

**BATTERIES TO BE PROVIDED (2 - 12v) FIELD VERIFY**

NOTE: THE ABOVE BATTERY CALCULATION IS A COMBINED TOTAL OF THE ADDITIONAL LOADS THAT WILL BE ADDED FROM THE SCOPE OF THIS PROJECT. FIELD VERIFY THE SIZE OF THE EXISTING BATTERIES AND UPSIZE ACCORDINGLY.

**Point to Point NAC Voltage Drop Calculation**

Date: 4/27/2026  
 Project Name: SOUTH HILLS MALL CLUCK & STACK  
 Circuit Number: FPS1.1

Nominal System Voltage: 20.4 volts  
 Minimum Device Voltage: 16.0 volts  
 Distance from source to 1st device: 350 feet  
 Wire Gauge for balance of circuit: 14

Wire Resistance: 3.07 Per 1000  
 3.07  
 3.07

Max Output Current: 3.00 amps  
 Total Circuit Current: 0.084 amps  
 Spare Current Capacity: 20%  
 End of Line Voltage: 20.19 volts  
 Notification Appliance Manufacturer: System Sensor

Circuit is within limits

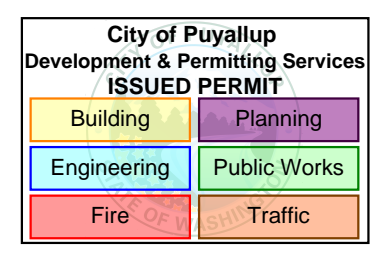
Speaker Identifier	NAC Identifier	Device Model and Candela	Device Wattage	Device Current	Distance Previous Device	Voltage at Device	Drop From Source	Percent Drop
S1.1.1	NI.1.1	SPSCWLED 30	1/2	0.022	350	20.22	0.181	0.88%
S1.1.2	NI.1.2	SPSCWLED 30	1/2	0.022	34	20.21	0.193	0.95%
S1.1.3	NI.1.3	SPSCWLED 30	1/2	0.022	26	20.20	0.200	0.98%
	NI.1.4	SCWLED 15		0.018	59	20.19	0.206	1.01%

Totals: 1 1/2 0.084 469

Notes:  
 Wire resistance is doubled in the calculations for two wires (Positive and Negative). The voltage calculated to the last device must not be lower than the manufactures listed minimum operating voltage (IE: rated operating voltage 16-33 VDC (24 VDC nominal)).

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

**City of Puyallup**  
 Fire REVIEWED FOR COMPLIANCE  
 DDrake  
 05/29/2026  
 9:13:37 AM

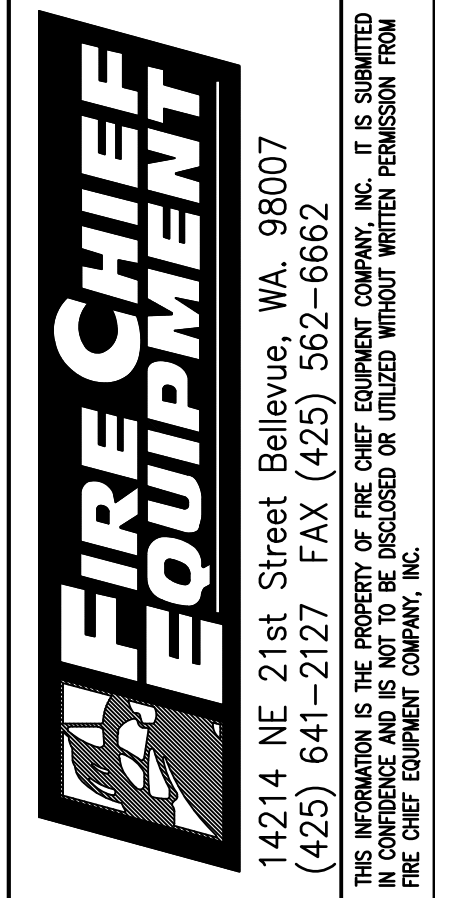


Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

Drawings reviewed by:  
 Cory W. Haws SET  
 NICET Certification  
 Fire Protection Engineering Technology  
 Fire Alarm Systems - Level IV  
 Cert. No. 112381  
 Exp 12/1/2028



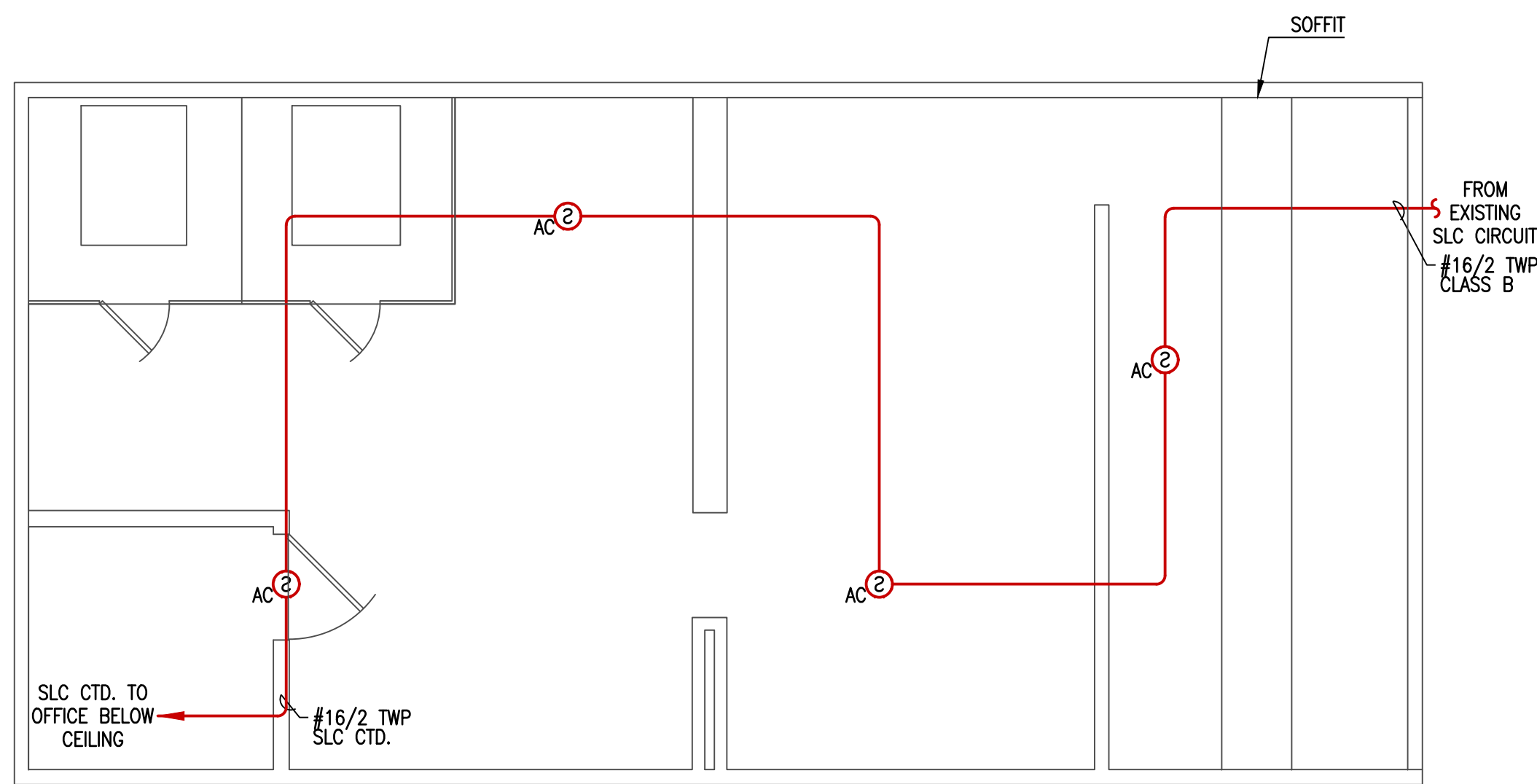
DATE	DESCRIPTION
4/26/2026 <td>ISSUED FOR REVIEW &amp; APPROVAL</td>	ISSUED FOR REVIEW & APPROVAL
0	REVISION



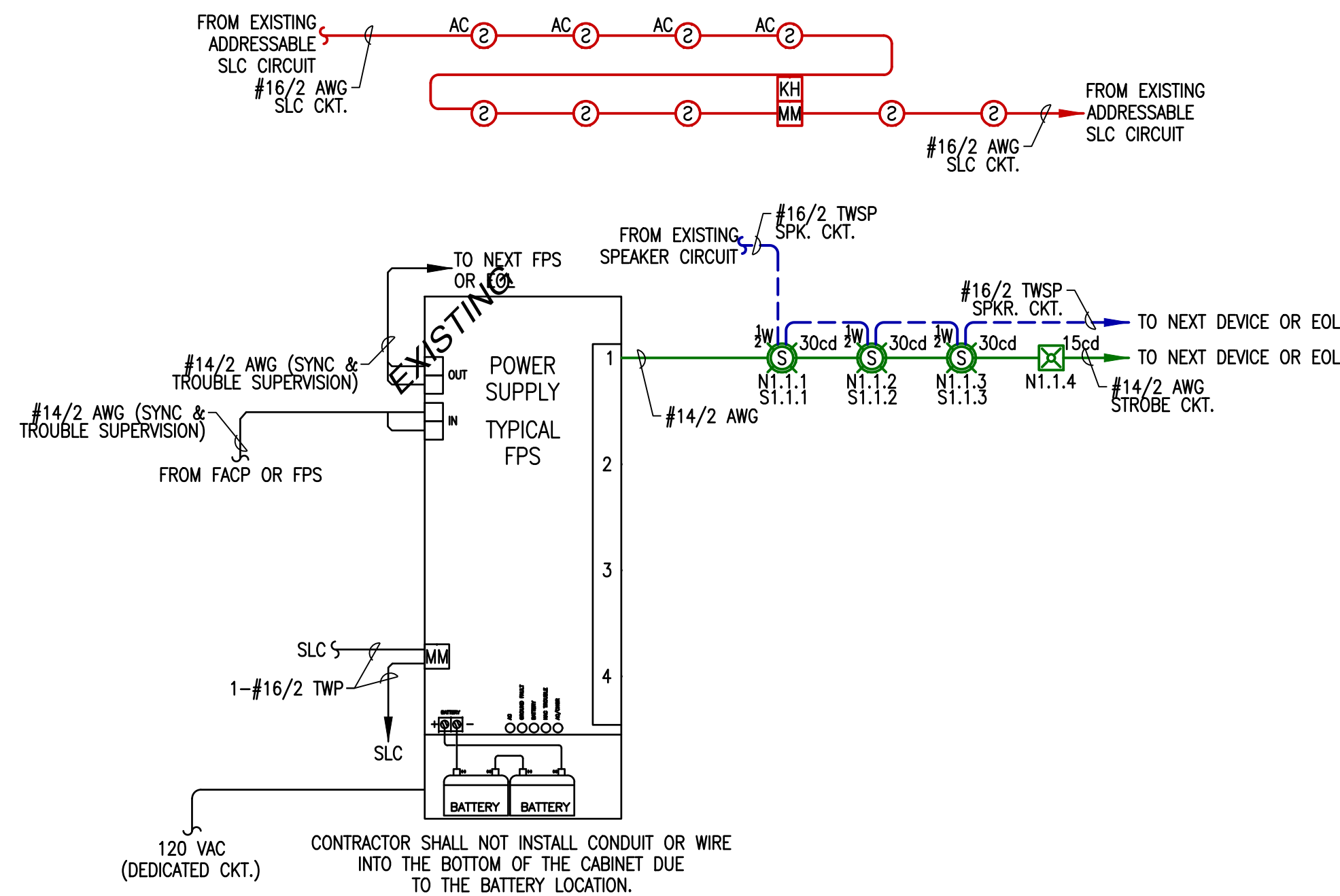
**SOUTH HILLS MALL - CLUCK & STACK T.I.**  
**3500 SOUTH MERIDIAN - SUITE # F8**  
**PUYALLUP, WA 98373**  
**FIRE ALARM PLAN**

DRAWN	CORY W. HAWS UNICAD JOB #26259
CHECKED	CORY W. HAWS, SET NICET IV FAS 112381
DATE	4/28/2026
REVISION	0
SCALE	1/4"=1'-0"

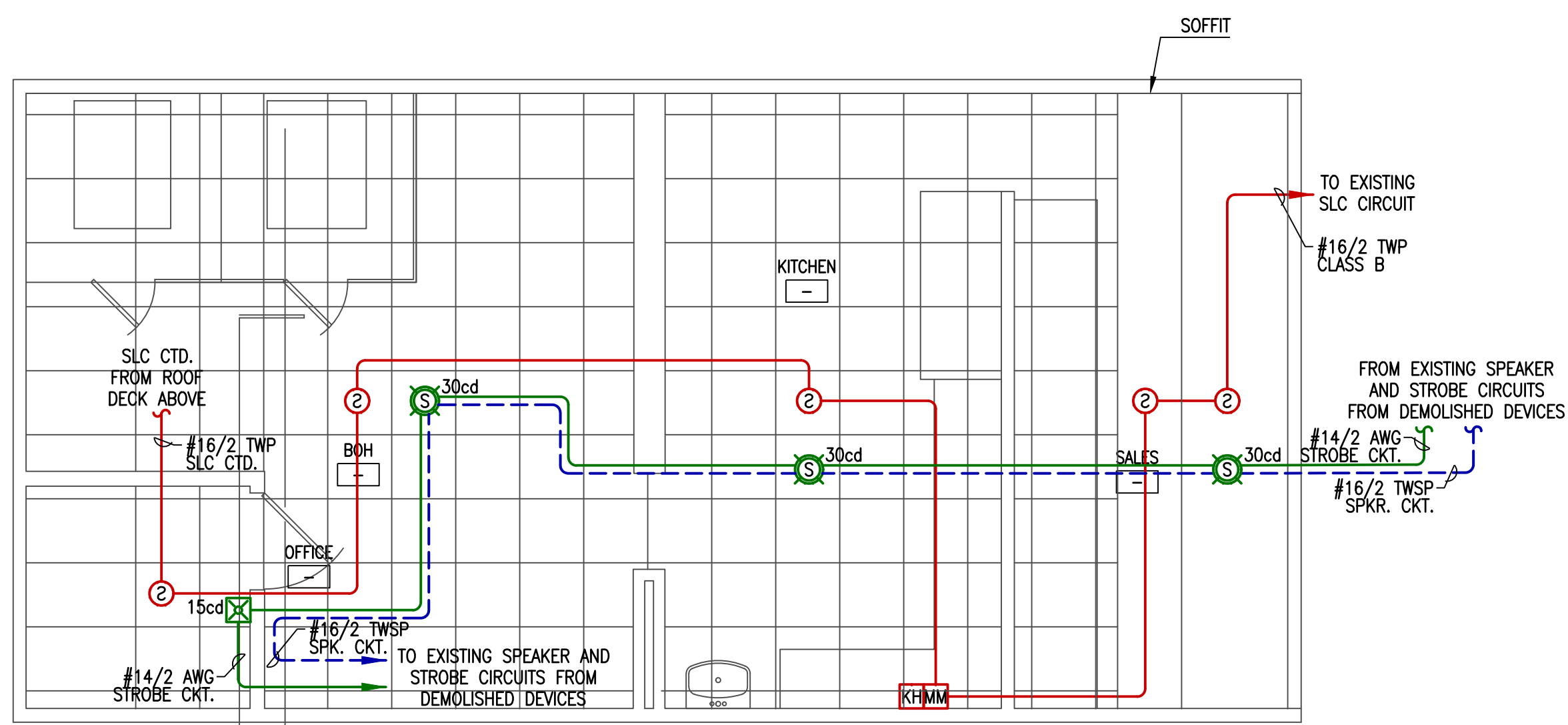
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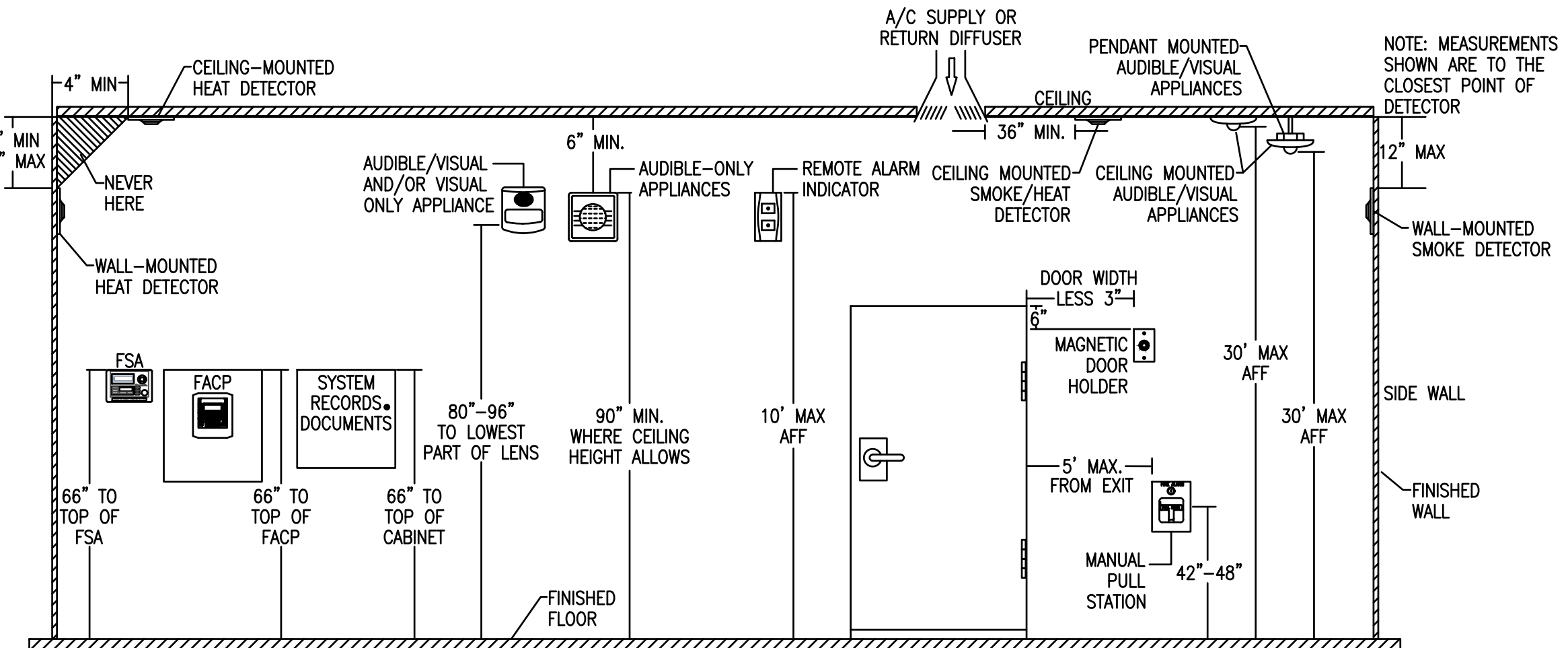
**ABOVE CEILING FIRE ALARM PLAN**  
SCALE: 1/4"=1'-0"



**FIRE ALARM RISER DIAGRAM**  
SCHEMATIC: NOT TO SCALE



**BELOW CEILING FIRE ALARM PLAN**  
SCALE: 1/4"=1'-0"

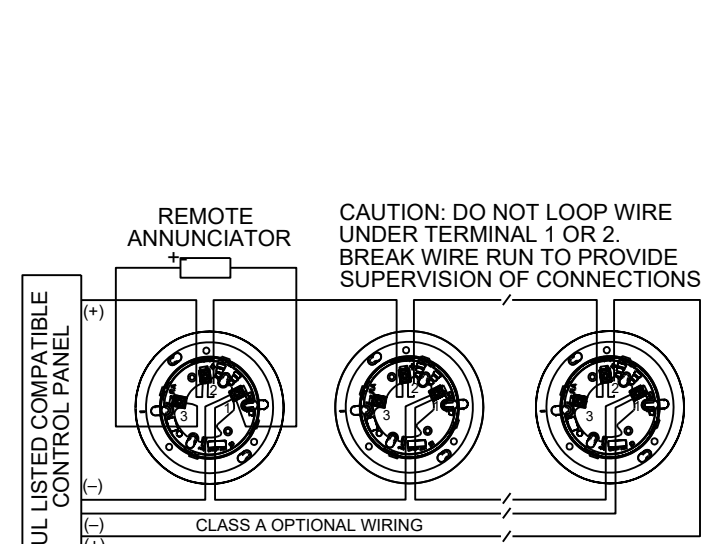


**FIRE ALARM DEVICE MOUNTING HEIGHTS**  
SCALE: NOT TO SCALE

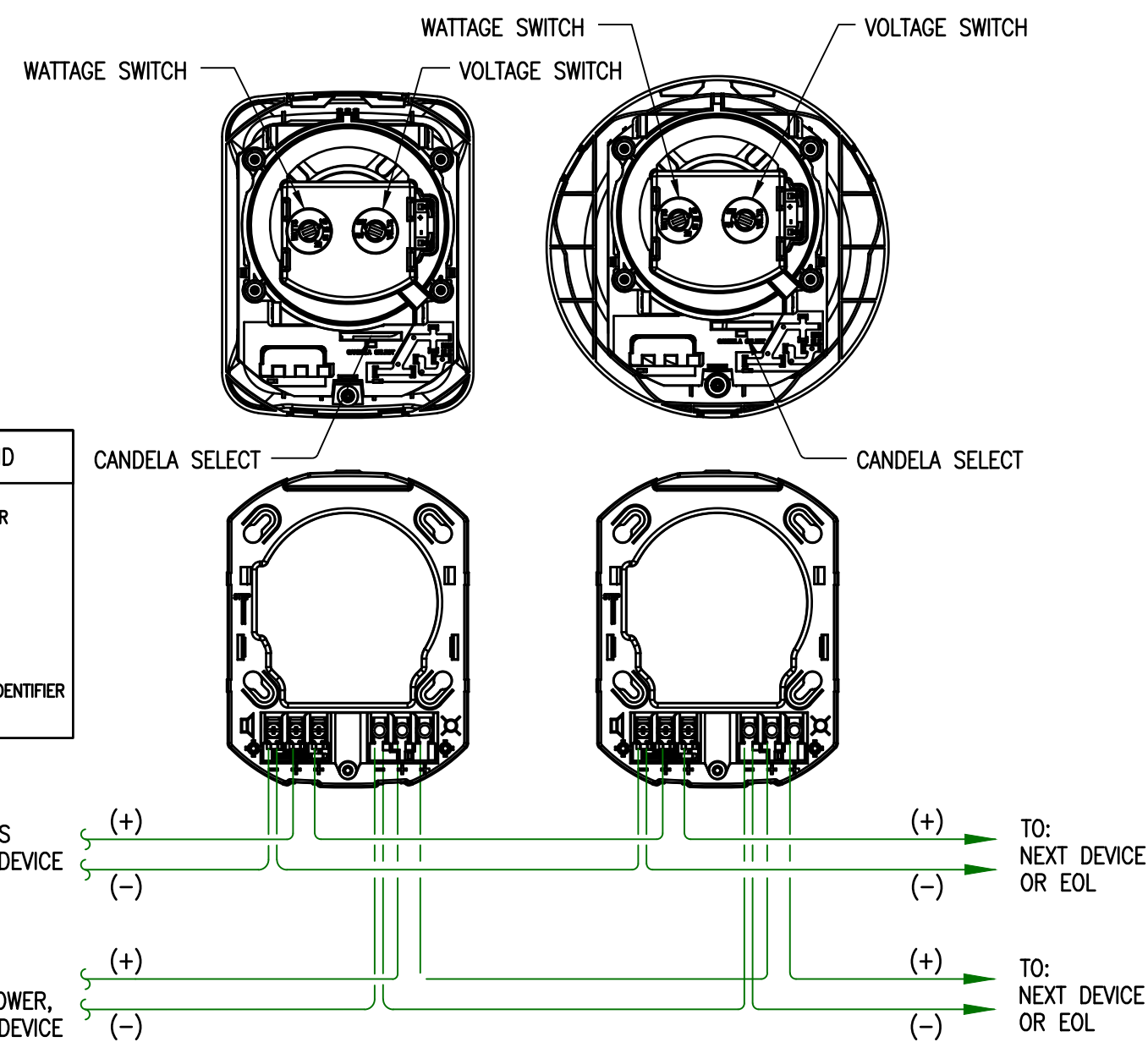
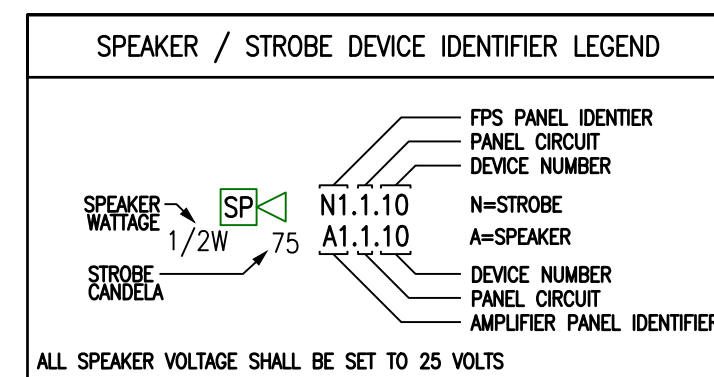
**OPERATIONS MATRIX**

FIRE ALARM INPUT	FIRE ALARM OUTPUT									
SMOKE DETECTORS	●	●	●	●	●	●	●	●	●	●
DUCT SMOKE DETECTORS	●	●	●	●	●	●	●	●	●	●
PULL STATIONS	●	●	●	●	●	●	●	●	●	●
WATERFLOW SWITCHES	●	●	●	●	●	●	●	●	●	●
VALVE SUPERVISORY SWITCHES	●	●	●	●	●	●	●	●	●	●
FIRE ALARM AC POWER FAIL	●	●	●	●	●	●	●	●	●	●
FIRE ALARM LOW BATTERY	●	●	●	●	●	●	●	●	●	●
OPEN CIRCUIT	●	●	●	●	●	●	●	●	●	●
GROUND FAULT	●	●	●	●	●	●	●	●	●	●
NAC SHORT CIRCUIT	●	●	●	●	●	●	●	●	●	●
LOSS OF AC TO BUILDING	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●

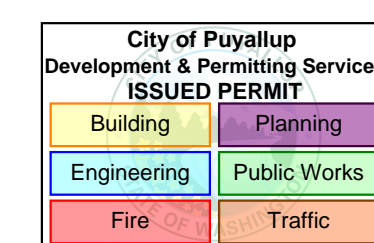
NOTE: NO NEW INITIATING DEVICES ARE BEING INSTALLED AS PART OF THIS SCOPE OF WORK. EXISTING INPUT/OUTPUT OPERATIONS SHALL REMAIN. NOTIFICATION APPLIANCES ARE BEING REMOVED AND RELOCATED AND SHALL MAINTAIN EXISTING OUTPUT MAPPING.



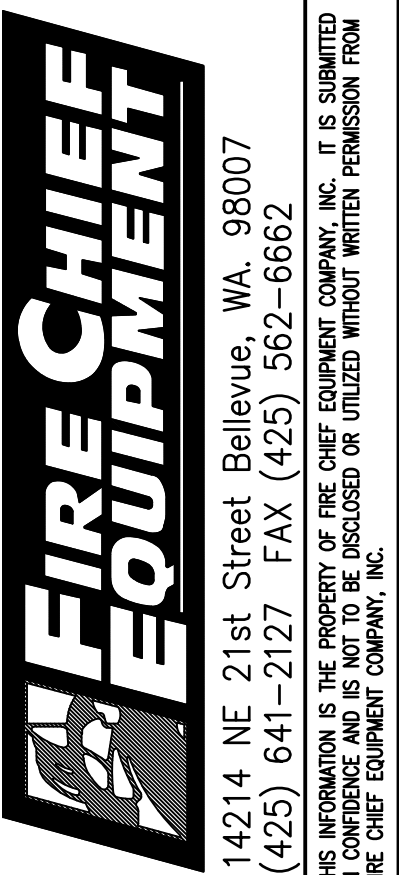
**6" DETECTOR BASE WIRING DETAIL**  
SCHEMATIC: NO SCALE



**TYPICAL SPEAKER STROBE WIRING DIAGRAM**  
SCHEMATIC: NO SCALE



Drawings reviewed by:  
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Fire Protection Engineering Technology  
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Exp 12/1/2028



**SOUTH HILLS MALL - CLUCK & STACK T.I.**  
**3500 SOUTH MERIDIAN - SUITE # F8**  
**PUYALLUP, WA 98373**  
**FIRE ALARM PLAN**

REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	4/26/2026

DRAWN	CORY W. HAWS UNICAD JOB #26259
CHECKED	CORY W. HAWS, SET NICET IV FAS 112381
DATE	4/28/2026
REVISION	0
SCALE	1/4"=1'-0"