

# NOTES

- MANUAL PULL STATIONS TO BE MOUNTED AT 48" AFF. MEASURED FROM THE OPERABLE PART OF THE DEVICE.
- MOUNT WALL MOUNTED AUDIO/VISUAL AND VISUAL ONLY DEVICES SO THAT THE ENTIRE LENS IS 80" AND NOT MORE THAN 96" ABOVE THE FINISHED FLOOR.
- LOCATE CEILING SMOKE DETECTORS 3"-0" OR GREATER FROM SUPPLY AIR DIFFUSER.
- WIRING SHOWN ON DRAWINGS IS USED TO INDICATE QUANTITY AND TYPE OF WIRE TO EACH DEVICE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR CREATING AND SUBMITTING ACTUAL AS BUILT DRAWINGS.
- PAINT ALL FIRE ALARM SYSTEM JUNCTION BOXES RED.
- ALL WIRING TO BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL CEILINGS ARE FLAT, SMOOTH, AND 10FT. HIGH OR LESS, UNLESS OTHERWISE SPECIFIED ON THESE SHOP DRAWINGS OR BY THE PROFESSIONAL OF RECORD.
- DO NOT T-TAP NOTIFICATION CIRCUITS OR HARD-WIRED INITIATION CIRCUITS. IDNET DEVICE COMMUNICATION WIRE AND 24 VDC POWER WIRE MAY BE T-TAPPED.
- LOCATE PILOT CONTROL RELAYS WITHIN 3' OF THE CONTROLLED DEVICE.

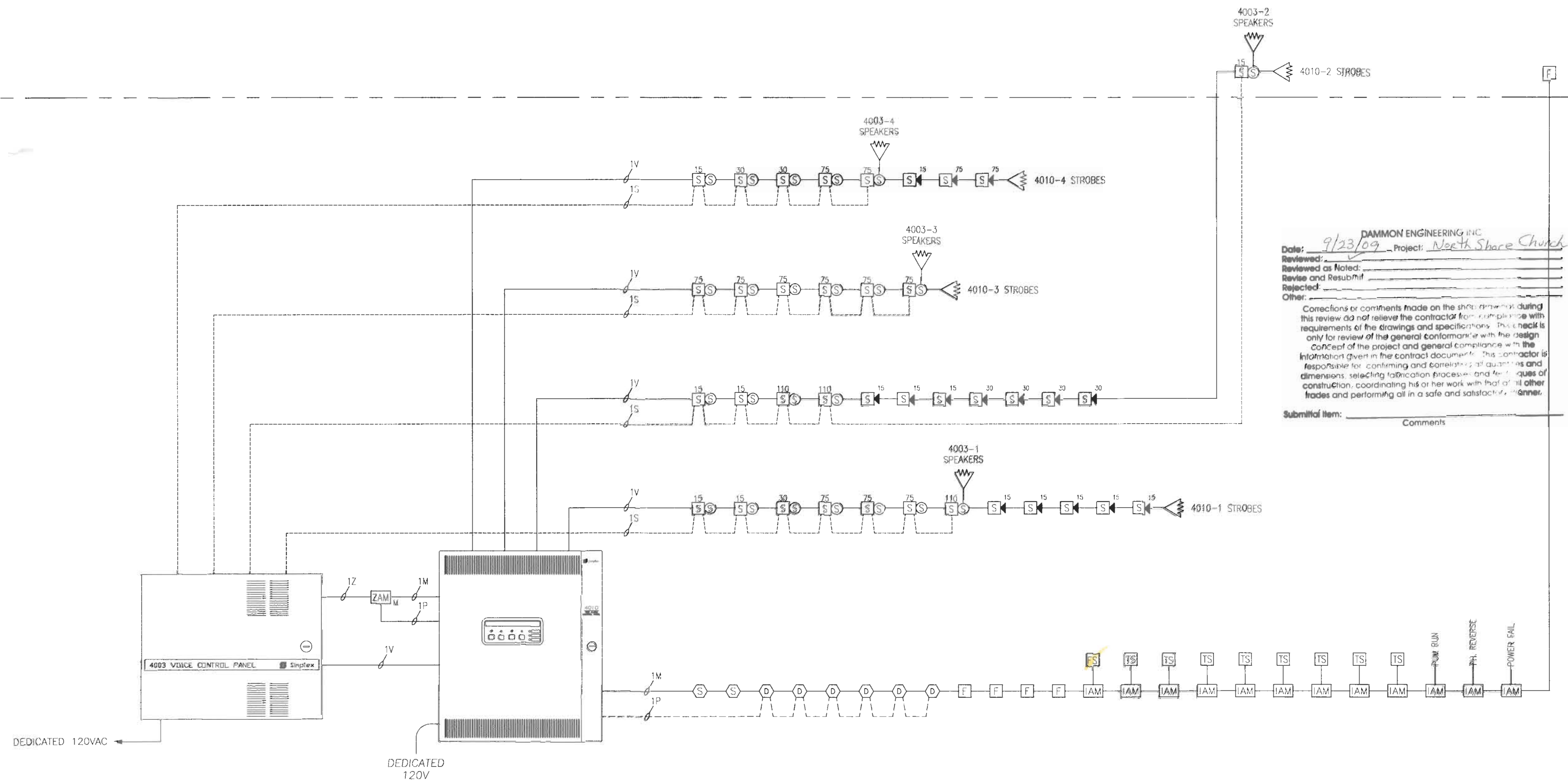
# SYMBOL LEGEND

- SMOKE SENSOR
- DUCT SMOKE SENSOR
- MANUAL PULL STATION
- IAM
- RELAY IAM
- SPEAKER/STROBE
- STROBE
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM CONTROL PANEL
- 4003 VOICE EVAC PANEL
- END LINE RESISTOR
- MONITOR ZAM

# FIRE ALARM WIRE LIST (POWER LIMITED)

K	REMOTE TEST SWITCH/LED CIRCUIT - (2) 2 CONDUCTOR 18 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454703ARE AREA=0.0204 SQ. INCH	CONDUIT ONLY: TFFN (2) #18 AWG (PINK/BROWN) (2) #18 AWG (WHITE/ORANGE) AREA=0.0055 SQ. INCH (EACH)	PLENUM RATED: FPLP PAIGE 454709ARE AREA=0.0165 SQ. INCH
M	MAPNET/IDNET CIRCUIT - 1 PAIR 18 AWG TWISTED OVERALL SHIELD NON-PLENUM RATED: FPL PAIGE 454722AREM AREA=0.0224 SQ. INCH	NON-PLENUM RATED: FPLR PAIGE 454722ARE AREA=0.0204 SQ. INCH	PLENUM RATED: FPLP PAIGE 454717ARE AREA=0.0219 SQ. INCH
P	MAPNET/IDNET POWER CIRCUIT - 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718RE AREA=0.0380 SQ. INCH	CONDUIT ONLY: TFFN PAIGE 454314BR #14 AWG TP (BLACK/RED) AREA=0.0394 SQ. INCH	PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
S	SPEAKER CIRCUIT - 1 PAIR 16 AWG TWISTED OVERALL SHIELD NON-PLENUM RATED: FPL PAIGE 454736AREM AREA=0.0284 SQ. INCH	NON-PLENUM RATED: FPLR PAIGE 454736ARE AREA=0.0204 SQ. INCH	PLENUM RATED: FPLP PAIGE 454747ARE AREA=0.0227 SQ. INCH
V	VISUAL/SIGNAL CIRCUIT - 2 CONDUCTOR 14 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454718RE AREA=0.0380 SQ. INCH	CONDUIT ONLY: TFFN (2) #14 AWG (RED/BLACK) AREA=0.0097 SQ. INCH (EACH) ***** REFER TO SIGNAL CIRCUIT DISTANCE CHART *****	PLENUM RATED: FPLP PAIGE 454719ARE AREA=0.0333 SQ. INCH
Z	ZONE CIRCUIT - 2 CONDUCTOR 16 AWG SOLID NON-PLENUM RATED: FPLR PAIGE 454731ARE AREA=0.0272 SQ. INCH	CONDUIT ONLY: TFFN (2) #16 AWG (YELLOW/BLUE) AREA=0.0072 SQ. INCH (EACH)	PLENUM RATED: FPLP PAIGE 454740ARE AREA=0.0227 SQ. INCH
CONDUIT SIZE		CONDUIT SIZE	CONDUIT AREA
1/2"		1-1/4"	0.60 SQ INCH *
3/4"		1-1/2"	0.82 SQ INCH *
1"		2"	1.34 SQ INCH *
* 40% FILL PER N.E.C.			
THE CABLES SPECIFIED HERE ARE FOR REFERENCE OF REQUIRED ELECTRICAL CHARACTERISTICS AS WELL AS CODE REQUIREMENTS. ALTERNATE SUPPLIERS MAY BE SUBSTITUTED PROVIDING EQUIVALENT CHARACTERISTICS ARE MAINTAINED. ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION.			

MEZZANINE LEVEL



**DAMMON ENGINEERING INC**  
 Date: 9/23/09 - Project: North Shore Church  
 Reviewed: \_\_\_\_\_  
 Reviewed as Noted: \_\_\_\_\_  
 Review and Resubmit: \_\_\_\_\_  
 Rejected: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. This contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and methods of construction, coordinating his or her work with that of all other trades and performing all in a safe and satisfactory manner.  
 Submittal Item: \_\_\_\_\_ Comments \_\_\_\_\_

GROUND FLOOR

**tyco Fire & Security**  
**SimplexGrinnell**

REVISION DESCRIPTION: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 DATE: 9/23/09  
 PROJECT: North Shore Church

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FIRE ALARM RISER, NOTES, & LEGENDS  
 NORTHSHORE CHURCH  
 SURELLA

DRAWN BY: JW DATE: 9/2/99  
 DESIGNED BY: DATE:  
 APPROVED BY: DATE:  
 PROJECT NUMBER: 943715701  
 FILENAME: NS-IGRE-RS.DWG  
 SHEET NUMBER: 2