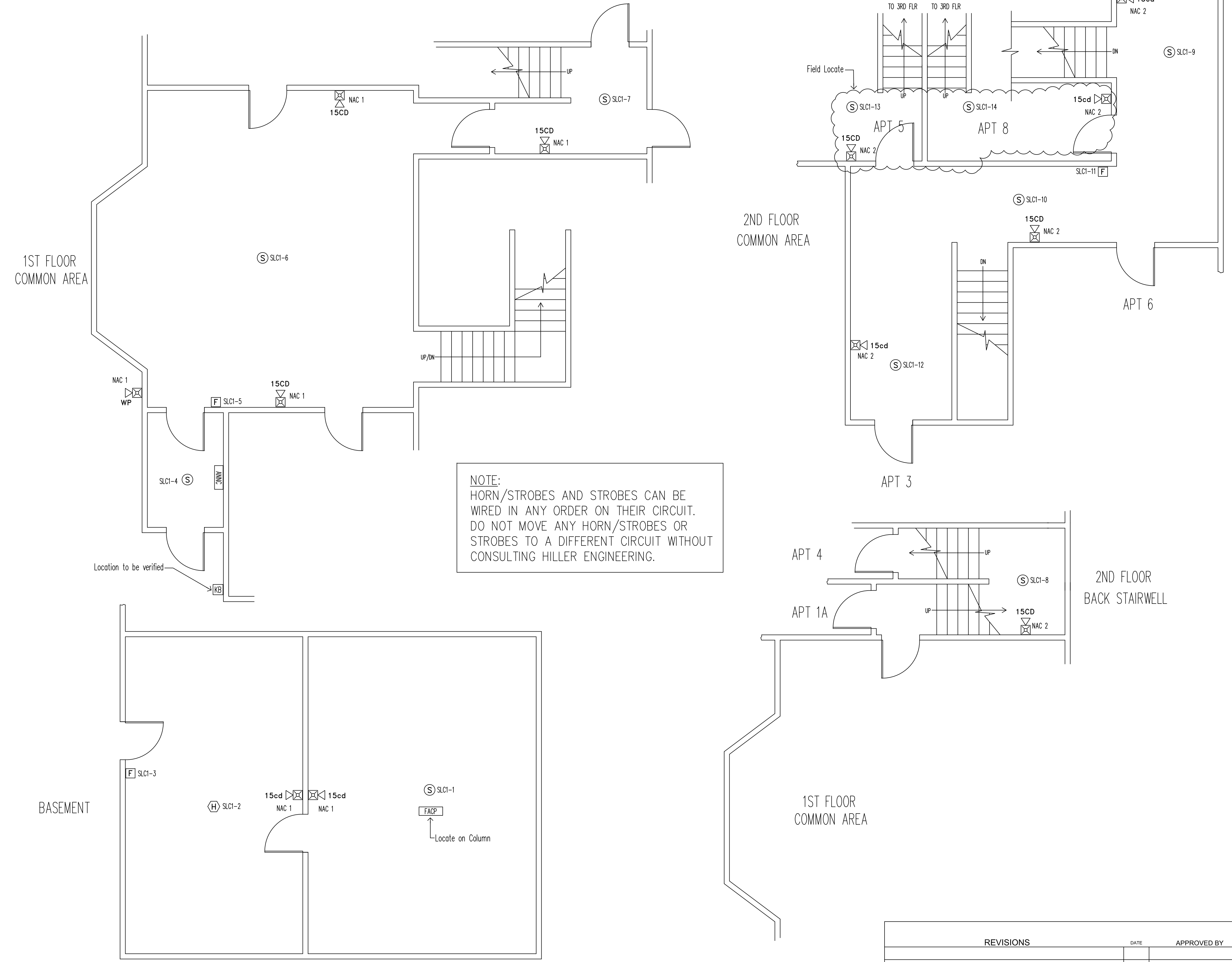




Reviewed for Code Compliance  
Permitting and Inspections Department  
Approved with Conditions  
09/11/2019



NOTE:  
HORN/STROBES AND STROBES CAN BE  
WIRED IN ANY ORDER ON THEIR CIRCUIT.  
DO NOT MOVE ANY HORN/STROBES OR  
STROBES TO A DIFFERENT CIRCUIT WITHOUT  
CONSULTING HILLER ENGINEERING.

System Layout – Plan Views  
Scale: 1/4" = 1'-0"

REVIEWED BY:  
CORNELIUSEN CONSULTING INC.  
20 HIDDEN MEADOWS LANE, WRENTHAM, MA.

EQUIPMENT LIST

EQUIPMENT SUPPLIER	ITEM #	ITEM DESCRIPTION	# OF ITEMS	PART NUMBER
NOTIFIER	1	FIRE ALARM CONTROL PANEL: FIREWARDEN	1	NFW-50
	2	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	10	NP-100
	3	ADDRESSABLE THERMAL DETECTOR	1	NP-100T
	4	ADDRESSABLE MANUAL PULL STATION	3	NBG-12LX
	5	80 CHARACTER L.C.D. SERIAL ANNUNCIATOR	1	N-ANN-80
SYSTEM SENSOR	6	HORN/STROBE: 24V; 15/75, 30, 75, 95, 110 & 115 CANDELA	11	P2RL
	7	HORN/STROBE BACKBOX, RED	11	SBBRL
	8	WEATHER-PROOF H/S, 24V; 15/75, 30, 75, 95, 110 & 115 CD.	1	P2RK
	9	WEATHER-PROOF BACKBOX, RED	1	SA-WBB
POWER SOURCE	10	BATTERY: 12 VOLT, 12 A-H	2	PS-12120
KNOX BOX	11	KNOX BOX, BLACK	1	3200

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS													
	FACP ANNUNCIATION							NOTIFICATION						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1. FIRE ALARM SYSTEM AC POWER FAILURE														
2. FIRE ALARM SYSTEM LOW BATTERY														
3. OPEN CIRCUIT														
4. GROUND FAULT														
5. NOTIFICATION APPLIANCE CIRCUIT SHORT														
6. MANUAL PULL STATION														
7. SMOKE DETECTOR														
8. HEAT DETECTOR														
9.														
10.														

SEQUENCE OF OPERATION MATRIX  
SCALE: NTS

LEGEND

- [FACP] FIRE ALARM CONTROL PANEL (NFW-50)
- [ANN] FIRE ALARM ANNUNCIATOR (N-ANN-80)
- [KB] KNOX BOX (3200)
- [F] PULL STATION (NBG-12LX)
- [S] SMOKE SENSOR (NP-100 HEAD, B710LP-BASE)
- [H] HEAT SENSOR (NP-100T HEAD, B710LP-BASE)
- [P2RL] MULTICANDELA HORN/STROBE (P2RL)  
### = CANDELA SETTING  
w/SBBRL BACKBOX
- [P2RK] WEATHERPROOF HORN/STROBE (P2RK)  
### = CANDELA SETTING  
w/SA-WBB BACKBOX
- [EARTH] EARTH GROUND

GENERAL NOTES

- ALL Fire Alarm System wiring shall comply with the National Electrical code, applicable state and local Fire and Safety Codes, as well as being coordinated with the Local Authority having jurisdiction.
- CAUTION: Fire Alarm System Wiring Shall be isolated from all other conductors and MUST test free of all grounds.
- CAUTION: DO NOT connect any power to Control Panel (batteries or 120 vac) until all other field wiring is tested, connected and free of all grounds.
- DO NOT install any A.C. current carrying conductors close to or in the same raceway with fire alarm system conductors.
- CAUTION: Minimum no. 18 AWG wire for 24 VDC wiring, or local code.
- See Notifier model NFW-50 manual or your Technical representative for further instructions.
- ALL wiring is to be copper conductors only. If shielded wire is used, the following must be observed:  
A. Metallic continuity of the shield must be maintained throughout the entire length of the cable.  
B. The entire length of the cable must have a resistance greater than 1 MEGOHM to earth ground.
- Underground wiring must be free of all water.



ENGINEERED BY: **DEAN & ALLYN, INC.**  
FIRE PROTECTION - SPECIAL HAZARD  
A Division of The Hiller Companies, Inc.  
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PO BOX 709, GRAY, MAINE 04039  
(207)657-5646 FAX:(207)657-5647

REVISIONS	DATE	APPROVED BY	DATE	JEFFERY S. KIDD NICET IV - #099721	DRAWING TITLE: Fire Alarm System	REV. 1
				SURVEYED BY	JOB: 509 Cumberland Ave	DEVICE LAYOUT & LEGEND
				DRAWN BY DV	4/17/19	
				CHECKED BY DB		
				AT DEAN & ALLYN, INC	Portland, ME	
				SCALE: AS NOTED	CONTRACT WITH: PO NUMBER: #19-5894	CONTRACT NO. NE3150
				SHEET NO. 1 OF 2		

