

NAC 1 VOLTAGE DROP CALCULATIONS				
MOUNT	WALL			
MODEL	P1224			
LABEL	AV 1.1			
DEVICE TYPE AND RATING	H/S 110 CD			
RESISTANCE OHMS (K)	3.0700			
AMPS @ DEVICE (I1)	0.2534			
DISTANCE FEET (L)	15.0000			
AMP DRAW @ DEVICE (I2)	0.2534			
VOLTAGE DROP (2*K*L*I2 / 1000)	0.0233			
%VD (VD*100/24)	0.0972			
CUMULATIVE VOLTAGE DROP	0.0233			
CUMULATIVE AMPS@DEVICE	0.2534			
STROBES WORK FROM 16 VDC TO 33 VDC - LETS STATE 4.0 NOMINAL VDC				
CIRCUIT MAX ALLOWED VDC	4 VDC	VDC OK !!	TOTAL Voltage Drop	0.023
CIRCUIT MAX ALLOWED AMPS	1.5 AMPS	AMP OK !!	TOTAL AMPS	0.253
			TOTAL %VD	0.097
			TOTAL FEET	15.000

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NAC CALCS

BATTERY CALCS							
ITEM	DEVICE TYPE	MODEL	QTY.	COLUMN B COLUMN B		COLUMN C COLUMN C	
				MIN. CURRENT	STANDBY	MAX. CURRENT	IN ALARM
1	FIRE ALARM PANEL	BOSCH D7024	1	0.20000	0.20000	0.00380	0.38000
2	HORN/STROBE WALL 110 CD	BOSCH P1224	1	0.00000	0.00000	0.25340	0.25340
3	HEAT DETECTOR	F220-135F	1	0.00000	0.00000	0.00000	0.00000
	TOTALS		3	0.20000	0.20000	0.25720	0.63340
GRAND TOTAL STANDBY CURRENT (B)				SC			0.2000
TOTAL HOURS STANDBY REQUIRED (60 HOUR)				HS			60.0000
TOTAL STANDBY CAPACITY				TS = SC * HS			12.0000
GRAND TOTAL ALARM CURRENT				AC			0.6334
TOTAL HOURS ALARM REQUIRED (0.083 HOUR) 5 MIN				HA			0.0830
TOTAL ALARM CAPACITY				TA = AC * HA			0.0526
TOTAL CAPACITY REQUIRED				TC = TA + TS			12.0526
REQ. CAPACITY W / 10% CONTINGENCY				C = TC * 1.1			13.2578
USE 2 - 12 VDC 17 AH BATTERY = 17 AH @ 24 VDC							

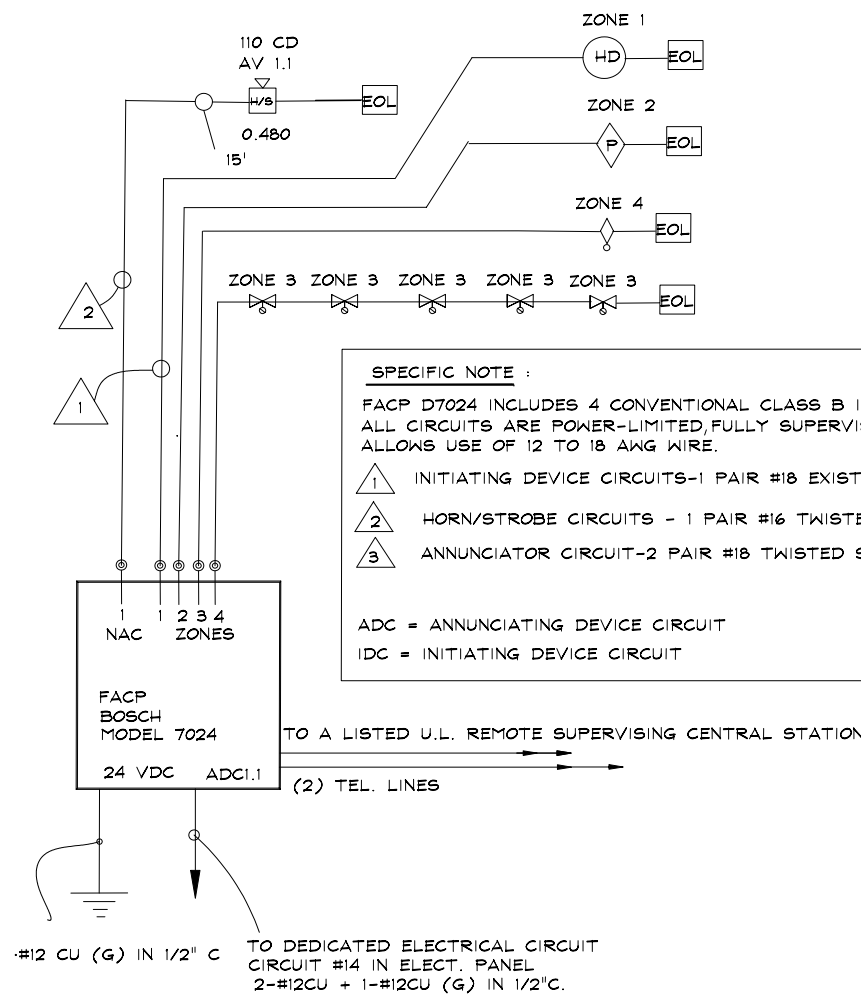
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BATTERY CALCS

LEGEND & EQUIPMENT SPECIFICATIONS	
FACP	NEW ADDRESSABLE FIRE ALARM CONTROL PANEL BOSCH D7024, 24 VDC, 120 V, 60 Hz, 2.3 A W / 12 VDC BACKUP BATTERY, POWER LIMITED-UL LISTED OPERATING TEMPERATURE : +32-F to 120-F (CONFIGURE FOR (4) ZONES)
HD	HEAT DETECTOR MODEL F220-135F FIXED TEMPERATURE TWO WIRE LOOP SUPERVISION REQUIRES A F220-B6E BASE (8.5VDC TO 32VDC)
P	BOSCH MODEL FMM-100 SERIES FIRE ALARM MANUAL PULL STATION.
TS	TAMPER SWITCH EXISTING BY SPRINKLER COMPANY
FS	FLOW SWITCH EXISTING BY SPRINKLER COMPANY
H/S	HORN/STROBE LIGHT, WALL MOUNTED, BOSCH P1224 24 VDC, 110 CD ,ALARM= .2534 mA, 88 dBA TO 93 dBA.

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LEGEND & DEVICE SPECS



1 FIRE ALARM RISER DIAGRAM
SCALE : NOT TO SCALE

THE PROPOSED FIRE ALARM SYSTEM IS REMOTE SUPERVISING STATION AS PER NFPA 72

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PROJECT ADDRESS: EASTPOINT SUPPLIERS
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SHEET NO. FA-02 OF 4

DRAWING TITLE: riser calcs and legend

Project Number: FIRE ALARM DESIGN

Fire Alarm License: Jorge T. Tapanes Jr. STATE CONTRACTOR LICENSE #EF-0000530

DRAWN BY: FN
Monday, October 30, 2006
APPROVED BY: JTT
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fr, DMFG ePlot.pc3, ARCH expanded D (36.00 x 24.00 inches), 1:1, Frank Naranjo, Engineering Consultant