

A UNIT OF GENERAL SIGNAL **GS**
EDWARDS



MARK II

6500 SERVICE MANUAL



CUSTOM 6500
MARK II

FIRE ALARM SYSTEM

Customer Drawings

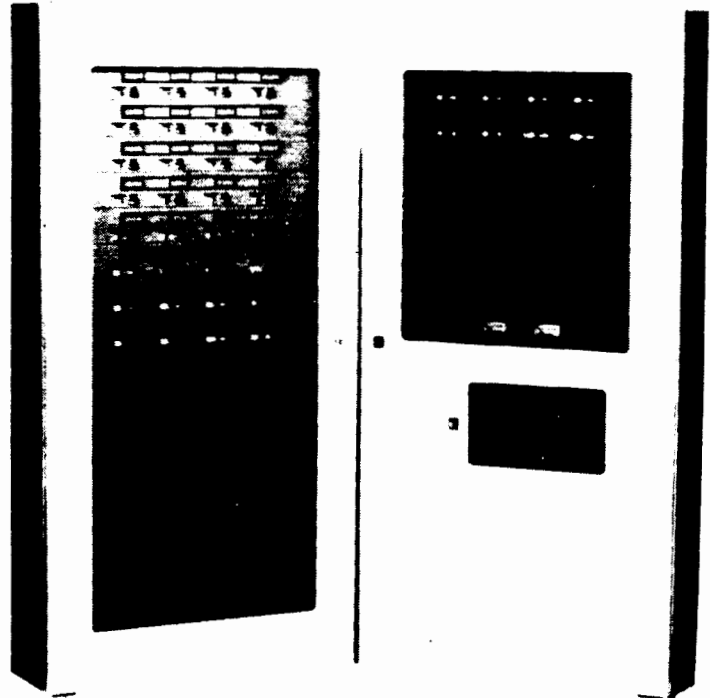
Control Panel 6500 MK II

Features

- MODULAR DESIGN-FIELD EXPANDABLE
- SELECTABLE ONE MINUTE INHIBIT ON MANUAL SIGNAL SILENCE AND SYSTEM RESET
- SUPERVISED ZONED ALARM INDICATION ON PANEL
- INDICATOR TEST SWITCH
- AC OR DC SIGNAL APPLIANCES
- 24VDC SYSTEM VOLTAGE
- DEAD FRONT CONSTRUCTION
- GROUND DETECTION
- ULC LISTED

Optional Features

- MANUAL EVACUATION SWITCH AND ADJUSTABLE AUTOMATIC EVACUATION TIMER
- PROGRAMMABLE ZONED SIGNALS AND ANCILLARY RELAYS
- CLASS B OR A ALARM RECEIVING AND OUTPUT CIRCUITS
- 2 WIRE IONIZATION AND PHOTO-ELECTRIC SMOKE DETECTOR CIRCUITS
- INTEGRAL BATTERY AND CHARGER MOUNTED IN SAME CABINET AS CONTROL PANEL
- SERIES OR PARALLEL WIRED ALARM SIGNALS



- REMOTE STATION OR MUNICIPAL TIE WITH DISCONNECT
- SUPERVISORY VOLTAGE AND CURRENT METERS
- REMOTE BATTERY
- SUPERVISED REMOTE ZONED ANNUNCIATOR
- ZONED TROUBLE INDICATION ON PANEL AND/OR REMOTE
- ALERT AND EVACUATION SIGNALS
- ADJUSTABLE AUTOMATIC OR MANUAL ALARM SILENCING WITH SUBSEQUENT ALARM
- SELECTABLE SIGNAL RATES

Description

Edwards' Custom 6500 MK II series is engineered to provide flexibility in fire alarm systems design. All major functions in the system are contained in separate modules which can be combined according to the specific needs of the installation.

This building block technique simplifies system planning and layout, permits customized installations at no extra cost and facilitates future expansion and modernization.

Utilizing solid-state technology to insure uniform reliability and performance, the Custom 6500 is designed to comply with industry standards. To insure absolute reliability, all components are precision-engineered and produced to stringent quality control standards: 100% in-process inspection of all major components and modules as well as 100% inspection of all complete units in finals systems mode.

The 6500 Fire Alarm Control Panel is a non coded single or two stage system. The basic systems are:

Cat. No. 6500-1 Non Coded Single Stage

Cat. No. 6500-2 Non Coded Two Stage

Coded single stage or two stage systems may be provided with optional hardware.

ZONED ALARM RECEIVING MODULE (8 CIRCUITS)

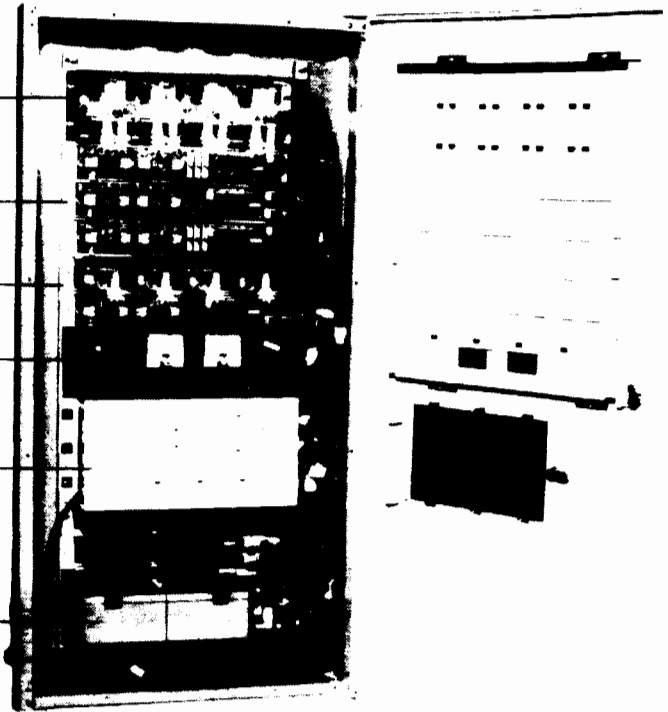
FOR FUTURE EXPANSION SUCH AS ALARM RECEIVING, AUDIBLE VISUAL OUTPUT OR REMOTE ANNUNCIATOR CONNECTIONS

AUDIBLE VISUAL ALARM OUTPUT MODULE (4 CIRCUITS)

BATTERY CHARGER METER PANEL

MASTER POWER AND COMMON CONTROL PANEL

SECONDARY POWER SUPPLY (BATTERY PACK AND CHARGER)



6500-1 Single Stage, Non Coded System

Operation

Edwards Cat. No. 6500-1 non coded, single stage control panel provides zoning of alarm initiating devices and an audible general evacuation alarm throughout the building or programmed by evacuation zone.

This system will accept alarm initiation from manual stations, heat detectors, smoke detectors and sprinkler water flow switches.

Zones in alarm are indicated on the control panel annunciator and on any remote annunciator(s).

An alarm will also activate the evacuation signals.

The wiring to all initiating devices and indicating appliances is fully supervised.

Application

The single stage system is recommended for all installations where an immediate general alarm is required (schools, dormitories, apartment houses, barracks, and in warehouses, hazardous areas and commercial buildings).

6500-2 Two Stage System

Operation

Edwards Cat. No. 6500-2 two stage control panel provides zoning of alarm initiating devices and two stages of signals.

Typically a first stage alert sounds at 20 pulses per minute on bells and chimes throughout the building. The second stage evacuation alarm sounds

at 120 pulses per minute on the same bells and chimes throughout the building or in predesignated (Zoned) areas in accordance with a preset program.

This system will accept alert alarm initiating from manual stations, heat detectors, smoke detectors and sprinkler water flow switches. The initiation of the second stage evacuation alarm is from manual key switches. Zones in alarm are indicated on the control panel annunciator and on any remote annunciator(s).

The wiring to all initiating devices and indicating appliances is fully supervised.

Application

The two stage system is recommended for all applications where a first alarm is desirable so that the fire alarm can be investigated by authorized personnel prior to the sounding of a general evacuation alarm. This system, recommended for hospitals, hotels, stores, commercial and industrial buildings.

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EDWARDS **GS**
A UNIT OF GENERAL SIGNAL

Master Power and Common Control Panel and Modules

The versatility and cost effectiveness of the 6500 design is clearly demonstrated by the standard and optional features provided by the 6514-81 Common Control and Power Panel.



Cat. No. 6514-81

Cat. No. 6514-81 Common Control Power Panel. This panel provides:

- Power "ON" LED
- Lamp Test Pushbutton
- Fire Drill Switch and LED
- Receptacle for 6514-82 and one 6514-88 or 6514-89 module
- One minute Signal Silence Inhibit select switch
- Ancillary "1C" Alarm and Trouble operated contacts
- Terminals for the following remote functions: reset, signal silence switch and indicator, "remote annunciator indicator failure," trouble indicator and signal, power on indicator, drill switch and indicator
- Receptacle for one of the following optional modules 6514-2 or 6514-29; 6514-83; 6514-84 or 6514-85 or 6514-86
- Maximum system load of 6.0 amps DC
- May be used to power AC or DC signals.

Cat. No. 6514-82 Plug-in module.

Provides a Power On LED, Indicator Test Switch, Fire Drill Switch and LED. This module is always required.

Select one of the following common control modules:



Cat. No. 6514-88

Cat. No. 6514-88 Plug-in module.

Provides the following Common Control features:

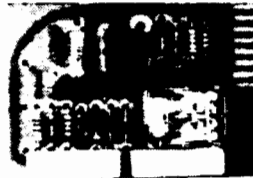
- Trouble signal silence switch and trouble signals silence LED
- System reset switch
- Manual alarm silence switch and alarm silenced LED
- Remote lamp failure LED
- Ground fault LED.

Cat. No. 6514-89 Plug-in module.

Provides the following Common Control features:

- Trouble signal silence switch and trouble signal silence LED
- System reset switch
- Alarm silenced LED
- Remote lamp failure LED
- Ground fault LED.

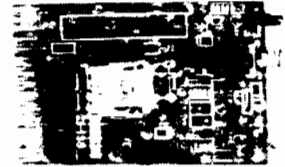
Select one of the following optional feature modules:



Cat. No. 6514-2

Cat. No. 6514-2 Audible Signal Time Limit Cutout Module. Plug-in module. Automatically silences alarm signals. Factory adjusted to operate after approximately 5 minutes.

Cat. No. 6514-29 Audible Signal Time Limit Cutout Module. Plug-in module to automatically silence alarm signals after preset period of time. Field adjustable 1 to 60 minutes.



Cat. No. 6514-84

Cat. No. 6514-84 Fire Department Connection Module.

Shunt or remote station types. Plug-in module provides DPDT contacts, one for fire department connection, one for ancillary functions, rated at 5.0 amp, 120V AC. Contacts are controlled by a manual disconnect switch with LED indicator.

Cat. No. 6514-85 Fire Department Connection.

Local energy type with hold coil. With 2C contacts, relay operated LED, Trouble LED. Contacts are controlled by a manual disconnect switch with LED indicator.

Cat. No. 6514-86 Fire Department Connection Module.

Local energy tripper type without hold coil circuitry. With 2C alarm contacts, disconnect switch and LED indicator.

Cat. No. 6514-87 Fire Department Connection Module.

Reverse polarity remote station type. Meets ANSI Standard NEMA SB3-1969. Plug-in module provides one SPDT contact for ancillary function rated at 5.0 amp, 120V AC. Fire department connection and ancillary contacts are controlled by a manual disconnect switch and LED indicator.

Power Panels



Cat. No. 6516

Cat. No. 6516 DC Signal Power Supply Extender Panel. Provides 12 amps, 24V DC, additional alarm current capacity.

Cat. No. 6516-2 Signal Power Distribution Panel. Required when two or three 6516 panels are used in the system.



Cat. No. 6517

Cat. No. 6517 AC Power Supply Panel. This panel must be used when battery standby is not used. Provides power for trouble circuit and supervision of the L1 main power supply. Also provides a maximum of 12 amps, 120V AC, distributed on one or two supervised power supply circuits, for AC diode alarm signals.

Provides power for an additional: 240 Class "B" receiving modules without trouble lamps, or 120 Class "A" or "B" receiving modules with trouble lamps or 89 Class "A" or "B" smoke detector modules.

Cat. No. 6518 Receiving Circuit Power Supply Extender Panel. Use when receiving circuits exceed current limits listed for respective master power panel.

Alarm Receiving Panels and Modules



Cat. No. 6501



Cat. No. 6501-0800

Cat. No. 6501 alarm receiving circuit panel has provision for 4 alarm or supervisory receiving zone modules and the 6501-0800 alarm receiving circuit panel has provision for 8 alarm or supervisory receiving zone modules. These panels provide terminals for zone wiring and remote annunciator(s).

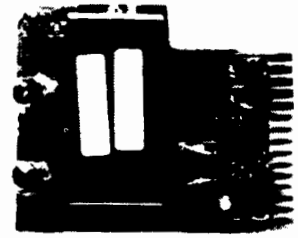


Cat. No. 6501-2

Cat. No. 6501-2 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised and unsupervised alarm lamps.

Cat. No. 6501-2 Alarm Receiving Module, Class A. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised and unsupervised alarm lamps and remote unsupervised trouble lamp.

Cat. No. 6501-6 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised alarm lamp and unsupervised alarm and trouble lamps.



Cat. No. 6501-42

Cat. No. 6501-42 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on panel; and provision for remote supervised or unsupervised alarm lamp.

Cat. No. 6501-43 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B With Remote Trouble Lamp. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on panel; and provision for remote supervised or unsupervised alarm lamp and optional remote unsupervised trouble lamp.

Cat. No. 6501-57 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class A. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on module; and provision for remote supervised or unsupervised alarm lamp and remote unsupervised trouble lamp.

Cat. No. 6501-58 Supervisory Receiving Module, Class B. Does not lock on. Trouble lamp on module and provision for remote supervised or unsupervised trouble lamp.

Cat. No. 6501-62 Supervisory Receiving Module, Class B. Plug-in module with lock on trouble lamp and ancillary dry normally open alarm operated contact wired to terminals. Contact rating at .02 amps, resistive, 24V DC only.

Cat. No. 6501-20 Interconnection or Supervisory Panel. Panel with provision to accept one 6501-21 or one 6501-22 module and terminals for remote annunciation. For use as supervisory panel or for interconnecting two fire alarm control panels. Specify operation (a) to sound alarm signals and trouble signals, or (b) to sound trouble signal only.

Alarm Receiving Panels and Modules (cont.)

Cat. No. 6501-21 Alarm Receiving Module, Class B. Plug-in module for use with 6501-20 panel. Does not lock on alarm. Alarm and trouble lamp on module and remote supervised or unsupervised alarm and unsupervised trouble.

Cat. No. 6501-22 Alarm Receiving Module, Class B. Plug-in receiving circuit for use with 6501-20 panel. Locks on alarm. Alarm and trouble lamp on module and remote supervised or unsupervised alarm and unsupervised trouble.

Cat. No. 6501-23 Alarm Receiving Module, Class B — Normally Closed Devices (Contacts). Plug-in receiving circuit with supervised alarm, unsupervised trouble lamp on module and provision for remote supervised or unsupervised alarm lamps. For use with normally closed contacts.

Cat. No. 6501-24 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp, ancillary dry normally open alarm operated contact wired to terminals. Contact rating 0.2 amp, resistive, 24V DC only.

Cat. No. 6501-25 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B. Plug-in module with supervised alarm lamp, unsupervised trouble lamp and ancillary dry normally open alarm operated contact wired to terminals. Contact rating at 0.2 amp, resistive, 24V DC only.

Alarm Output Panels and Modules



Cat. No. 6504

Cat. No. 6504 Alarm Output Rate Control Panel. Use with single stroke signals to give output of 120 pulses per minute on alarm.



Cat. No. 6509

Cat. No. 6509 Alarm Output Rate Control Panel. For single stroke, common signals.
First stage — all signals sound at 20 SPM.
Second stage — all signals sound at 120 SPM.
If programming of signal circuits is required use 6522 programming panel. Specify breakdown of initiating and signal circuits on order.



Cat. No. 6513

Cat. No. 6513 Alarm Output Panel. Provision for 1 to 4 signal control modules.

Cat. No. 6513-18 Alarm Output Module Class A or B. Plug-in signal circuit with unsupervised trouble lamp. Use with parallel DC signal appliances only. Maximum signal current 3.0 amps.

Cat. No. 6513-19 Alarm Output Module Class A or B. Plug-in signal circuit with unsupervised trouble lamp. Use with parallel AC signal appliances only. Maximum signal current 3.0 amps.

Series signal circuits may be provided with optional hardware.

Ancillary Relays, Breakers and Terminals



Cat. No. 6525-0008

Cat. No. 6525-0004 Ancillary Relay Panel. Provides four SPDT contacts rated at 5.0 amp 120V AC brought out to terminals.

Cat. No. 6525-0008 Ancillary Relay Panel. Provides eight SPDT contacts rated at 5.0 amp 120V AC brought out to terminals.

Specify operation a, b or c:

- Operation of any receiving circuit operates all ancillary relays.
- Operation of a receiving circuit operates one relay associated only with that circuit. With this operation, ancillary relays must be in groups of four with each group of four receiving circuits.
- Receiving circuits may be programmed via 6522 program panel to operate any desired combination of ancillary relays.

Cat. No. 6525-14 Ancillary Relay Disconnect Panel. Provides four SPDT contacts rated at 5.0 amp 120V AC brought out to terminals, four disconnect switches and four relay disconnected LEDs.

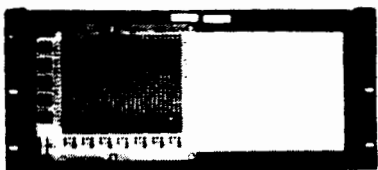
Cat. No. 6526-1 Circuit Breaker Panel. Provides three 3.0 amp 120V AC circuit breakers and three 12.0 amp 120V AC circuit breakers for protecting ancillary circuits.

Cat. No. 6526-2 Circuit Breaker Panel. Provides six 3.0 amp, 120V AC circuit breakers for protecting ancillary circuits.

Cat. No. 6527 Terminal Panel. Provides 24 terminals each having two screws for interconnection of devices. Each terminal will accept from 22 gauge to 12 gauge wire. This panel must be used if a remote battery and charger are used.

Programming Panels

Program Chart must be supplied with each order for program panels.



Cat. No. 6522-1

Cat No. 6522-1 Program Panel. 28 inputs, 20 outputs. Provides for up to 28 receiving circuits to feed up to 20 signal circuits or ancillary relays.

Cat. No. 6522-2 Program Panel. 56 inputs, 20 outputs.

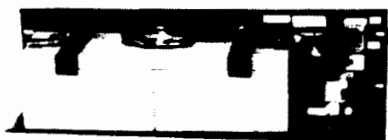
Programming panels with greater input/output configuration are available.

Secondary Power



Cat. No. 6531-5

Cat. No. 6531-5 Battery Pack Meter Panel. Provides ammeter and voltmeter to monitor charge rate and battery voltage of 6531-21, -22, -23, -24, -27, or -28 batteries.



Cat. No. 6531-27

Cat. No. 6531-27 Battery Pack and Charger Panel — 7.5AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-28 Battery Pack and Charger Panel — 4.0AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-32 Battery Pack and Charger Panel — 20.0AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-41 Battery Pack and Charger Panel — 1.8AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-42 Battery Pack and Charger Panel — 4.0AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-43 Battery Pack and Charger Panel — 6.0AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-44 Battery Pack and Charger Panel — 10AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6532-4 Battery Charger Panel. Automatic battery charger for Cat. No. 6533-1 and -2 nickel cadmium batteries. Includes battery lead supervision. 3.0 amp charge rate.

Cat. No. 6532-5 Battery Charger Panel. Automatic battery charger for Cat. No. 6533-3 nickel cadmium batteries. Includes battery lead supervision. 6.0 amp charge rate.

Cat. No. 6532-7 Battery Charger Meter Panel. Meter panel for use with 6532-4 and 6532-5 battery chargers also for use with 6531-32. Provides one 10 amp ammeter and one 50V voltmeter.

Cat. No. 6533-1 Nickel Cadmium Battery — 16.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-2 Nickel Cadmium Battery — 24.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-3 Nickel Cadmium Battery — 32.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-4 Nickel Cadmium Battery — 43.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6536-1 Battery Cabinet. Provides space for remote mounting of one of the following batteries: 6533-1, -2 or -3.

Cat. No. 6536-2 Battery Cabinet. Provides space for remote mounting of battery 6533-4.

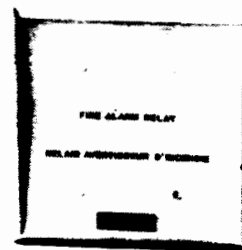
Door Power Supply



Cat. No. 6530-7

Cat. No. 6530-7 Uninterrupted 24V DC Power Supply Panel. Provides uninterrupted 24V DC, 3.0 amp for door holders, etc. This panel requires separate 120V AC, 1.5 amp supply and separate battery and charger. Order and price battery and charger separately.

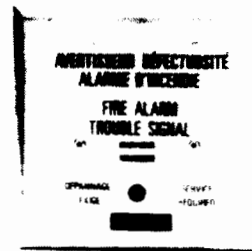
Accessories



Cat. No. 6554

Cat. No. 6554 Ancillary Alarm Circuit Relay — 24V DC (Remote). Two DPDT and one SPST with normally open contacts mounted on stainless steel 2 gang plate. Contact rating: 5.0 amp, resistive, 120V AC/28V DC.

Cat. No. 6554-1 Ancillary Alarm Circuit Relay — 120V 60Hz (Remote). Same as 6554 except 120V, 60 Hz.



Cat. No. 6551

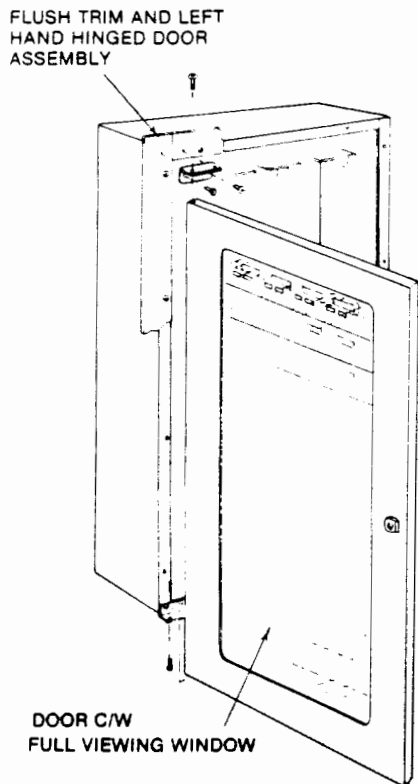
Cat. No. 6551 Remote Trouble Unit — 24V DC (Remote). Contains trouble lamp and midi-horn mounted on 2 gang plate. Requires three (3) wires to be connected to the Common Control panel.

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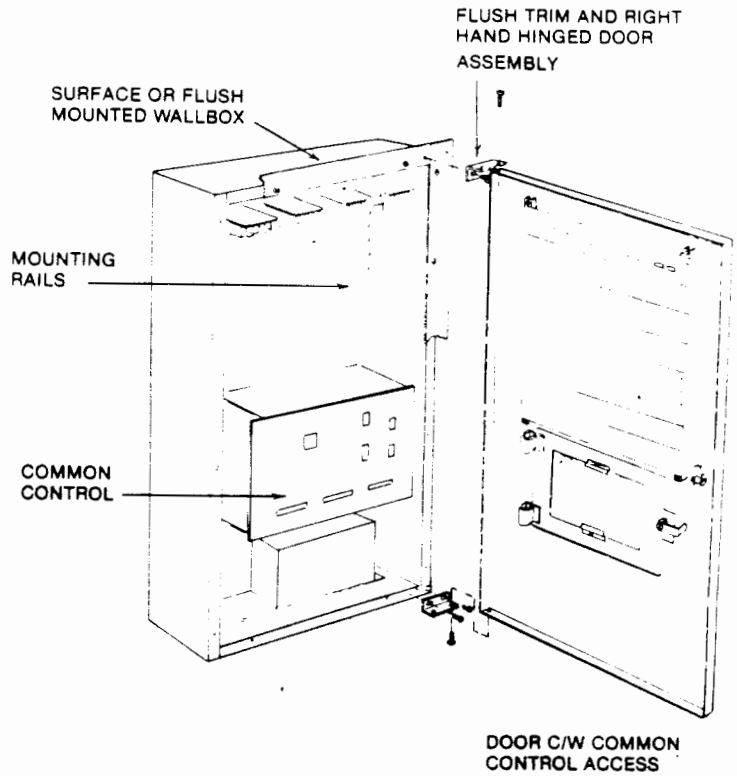


A UNIT OF GENERAL SIGNAL

Additional Equipment Panel



Main Control Panel



Ordering Information

WALLBOX

Cat. No.	Height		Width 24" (610mm)	Depth 6" (254mm)	Panel Spaces Available
	36" (914mm)	48" (1626mm)			
6537-A136	X			X	12
6537-A148		X		X	16
6537-A172			X	X	26

Wallboxes may be flush mounted. order trim separately.

DOOR

Cat. No.	Height		Width 24" (610mm)	Panel Spaces Available for Annunciation	With Common Control Door	Without Common Control Door
	36" (914mm)	48" (1626mm)				
6537-C236	X			5	X	
6537-C248		X		8	X	
6537-C272			X	14	X	
6537-A236	X			12		X
6537-A248		X		16		X
6537-A272			X	26		X

TRIM

Cat. No.	Height		Width	
	38" (965mm)	50" (1677mm)	26" (661mm)	50" (1677mm)
6538-A136	X		X	
6538-A148		X	X	
6538-A172			X	X
6538-A236	X			X
6538-A248		X		X
6538-A272			X	X

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A UNIT OF GENERAL SIGNAL

6500 MARK II

METALWORK NUMBERS

WALLBOX INFO		RAILS		
SIZE	WALLBOX CAT. #	WALLBOX RAILS	FOR DOOR LESS COMMON CONTROL	FOR DOOR WITH COMMON CONTROL
24"x36"	6537-A136	PP#46082-0161	PP#46082-0999	PP#46082-1002
24"x48"	6537-A148	PP#46082-0057	PP#46082-1000	PP#46082-1003
24"x72"	6537-A172	PP#46082-0058	PP#46082-1001	PP#46082-1004

DOORS			
SIZE	LESS COMMON CONTROL	WITH COMMON CONTROL AND BILINGUAL	WITH COMMON CONTROL AND ENGLISH ONLY
24"x36"	6537-A236	6537-C236	6537-B236
24"x48"	6537-A248	6537-C248	6537-B248
24"x72"	6537-A272	6537-C272	6537-B272

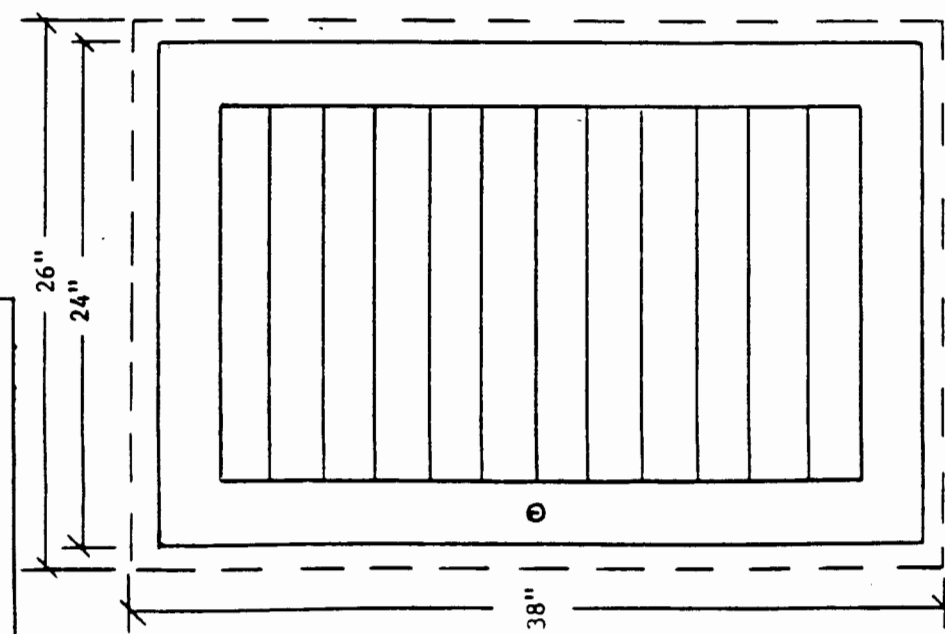
TRIMS			
SIZE	SINGLE	DOUBLE	SHIPPING CARTONS
24"X36"	6538-A136	6538-A236	46195-0066
24"X48"	6538-A148	6538-A248	46195-0031
24"X72"	6538-A172	6538-A272	46195-0032

NOTES: Wallboxes are 6" deep and painted.

DEADFRONTS

6500		6500 MARK II		USED ON
BILINGUAL	ENGLISH	BILINGUAL	ENGLISH	6500/6500 MARK II
PP46001-	PP46001-	PP46001-	PP46001-	
0301	0301	1876	1876	1 - Blank Space
0302	0302	1877	1877	2 - Blank Spaces
0486	0486	1878	1878	3 - Blank Spaces
0310				6524-1 Annunciator Panel
	0784			6524-1 Annunciator Panel
		1867		6524-1 Annunciator Panel
			1866	6524-1 Annunciator Panel
0318				6531-5 Meter Panel
	0780			6531-5 Meter Panel
		1869		6531-5 Meter Panel
			1868	6531-5 Meter Panel
1201				6501 Alarm Panel
	0789			6501 Alarm Panel
		1871		6501 Alarm Panel
			1870	6501 Alarm Panel
1203				6513 Signal Panel
	0791			6513 Signal Panel
		1873		6513 Signal Panel
			1872	6513 Signal Panel
1232				6501-300
	0792			6501-300
		1875		6501-300
			1874	6501-300
		2411		
			2413	
2409		(Less 6510)		Control Panel 6514-81
	2410	(Less 6510)		Control Panel 6514-81
2411		(C/W 6510)		Control Panel 6514-81
	2413	(C/W 6510)		Control Panel 6514-81

PROP. NO.
A-



CAT. # 6537-A136

DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES.
LEFT SIDE RECOMMENDED.

SURFACE: CABINET 24 x 36 x 6
WALLBOX 24 x 36 x 6

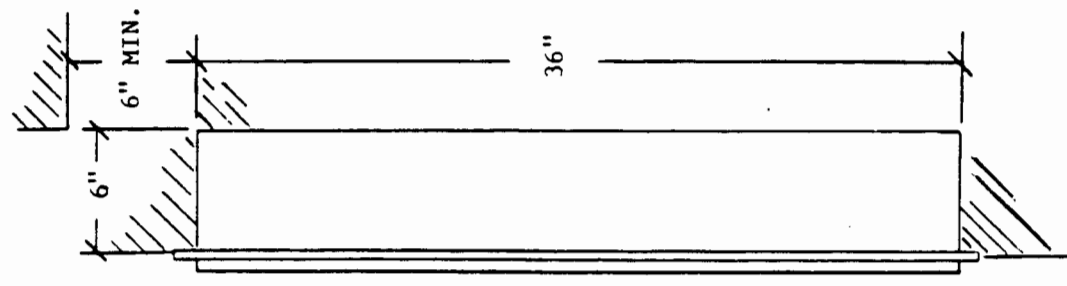
FLUSH: CABINET 26 x 38 x 6
WALLBOX 24 x 36 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS AC DC

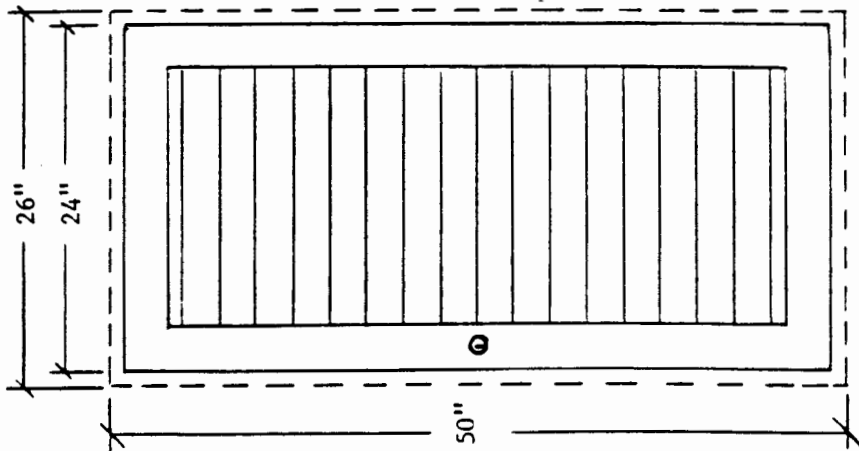


EDWARDS NO: _____
JOB NAME: _____
CUSTOMER: _____
CUSTOMER NO: _____

UNLESS OTHERWISE SPECIFIED	DRFG.	GS EDWARDS A UNIT OF GENERAL SIGNAL	TITLE: 6500 MARK II FIRE ALARM CABINET	ISSUE
DIMENSIONS ARE IN INCHES	CHKD.			
TOLERANCES	ENGR.			
DEC : 005 FRAC : 1/64" ANG : 1°	APPVD			
MATERIAL:	FIRST USED ON			
AS SHOWN	REF.	A-		
FINISH: AS SHOWN		STATE 7 SHEET OF		

PROP. NO.
A-

CAT. # 6537-A148



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED.

SURFACE: CABINET 48 x 24 x 6
WALLBOX 48 x 24 x 6

FLUSH: CABINET 50 x 26 x 6
WALLBOX 48 x 24 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

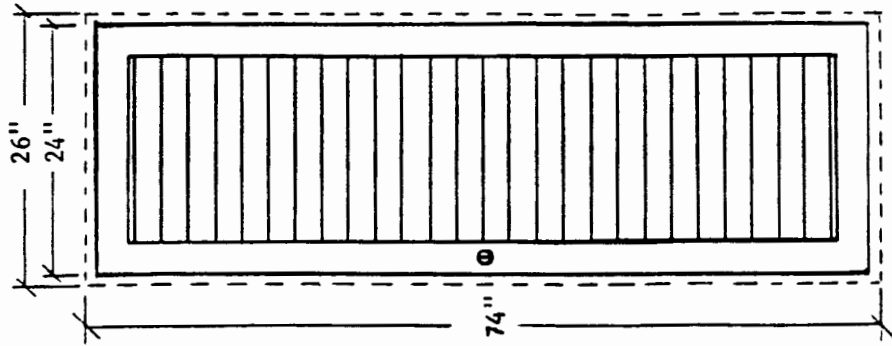
CAPACITY FOR (16) 2 1/2" PANELS

EDWARDS NO: _____
JOB NAME: _____
CUSTOMER: _____
CUSTOMER NO: _____

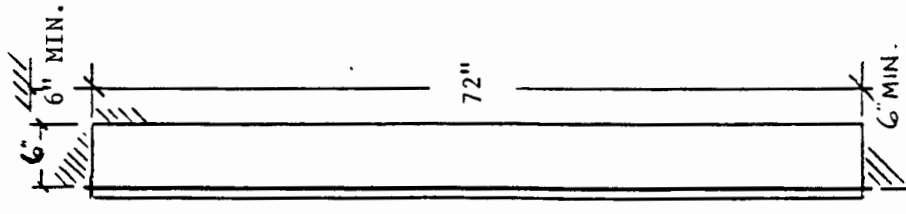
UNLESS OTHERWISE SPECIFIED		DRFG.	GS EDWARDS A UNIT OF GENERAL SIGNAL Newark Connecticut 06854
DIMENSIONS ARE IN INCHES		CHKD.	TITLE: 6500 MARK II FIRE ALARM CABINET
TOLERANCES		ENGR.	
DEC ± .005 FRAC ± .1/64" ANG ± .1°		APVD	PROP. NO. A-
MATERIAL:		FIRST USED ON	
AS SHOWN		REF.	ISSUE
FINISH: AS SHOWN		SCALE	SHT. OF

PROP. NO.
A-

CAT. # 6537-A172



CAPACITY FOR (26)
2 1/2" PANELS



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONT PLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED

SURFACE: CABINET 72 x 24 x 6
WALLBOX 72 x 24 x 6

FLUSH: CABINET 74 x 26 x 6
WALLBOX 72 x 24 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
 NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____
 NUMBER OF SUPERVISORY CIRCUITS _____
 NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

EDWARDS NO. _____
 JOB NAME _____
 CUSTOMER _____
 CUSTOMER NO. _____

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DEC ± .005 FRAC. ± 1/64" ANG. ± 1°	DRFG.	EDWARDS A UNIT OF GENERAL SIGNAL
	CHKD.	
	ENGR.	
	APPVD.	
MATERIAL: AS SHOWN	FIRST USED ON:	TITLE: 6500 MARK II FIRE ALARM CABINET
FINISH: AS SHOWN	REF.	PROP. NO. A-
		ISSUE
		SCALE 1/2" OF

6500 MARK II

SCHEMATIC LIST

CAT. NO.	DESCRIPTION	CUSTOMER DWGS	SCHEMATIC
6501-0000	Revised Artwork		C102-1539
6501-0800	Same As 2-6501's, Takes 8 Modules & 2 Panel Spaces		C102-1524
6504-0000	Revised To A P.C. Board		B102-1547
6509-0000	Revised To A P.C. Board		B102-1548
6509-0003	Revised To A P.C. Board		C102-1549
6509-0004	Revised To A P.C. Board		B102-1550
6509-0027	Revised To A P.C. Board		C102-1551
6513-0000	Revised Artwork		C102-1538
6514-0081	Master Power Supply & Control Panel, 3 Panel Spaces		C102-1544
6514-0082	Module C/W Power "On" LED, Lamp Test & Drive, Plugs Into - 81		B102-1536
6514-0083	Manual & Auto GA Module C/W Cancel Push, Plugs Into -81		B102-1534
6514-0084	Revised 6514-4		B102-1532
6514-0085	Revised 6514-5		
6514-0086	Revised 6514-6		B102-1533
6514-0087	Revised 6514-7		B102-1543
N/R	Vacancy Module For All "FDR" Modules		B102-1531
6514-0088	Common Control Module C/W Signal Silence Switch		C102-1546
6514-0089	Common Control Module Less Signal Silence Switch		C102-1546
6524-0001	Revised Artwork		B102-1527

SCHEMATIC LIST - Cont'd

CAT. NO.	DESCRIPTION	CUSTOMER DWGS	SCHEMATIC
6524-0002	Revised Artwork		B102-1528
6524-0003	Revised Artwork		B102-1529
6524-0004	Revised Artwork		B102-1530
6525-0004	Same As 6525, Artwork Revised		B102-1525
6525-0008	Same As 2 6525's (8 Relays) On 1 Panel		B102-1526
6591-0003	Revised To P.C. Board		C102-395
6591-0007	Revised 6565-735 To P.C.B.		B202-252
6591-0013	Same As 6591-3 Less Abort Relays, Similar To 6591-8		C102-1552
6525-14	Auxiliary Relay		B102-1558

6500 MARK II

SYSTEM STRUCTURE

6501-0800 PANEL

ALARM RECEIVING EIGHT-CIRCUIT STRIP PANEL

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Alarm Individuals: (R2)

- B - Alarm Circuit #4 Individual - 0VDC (Normal), +24VDC (Activated)
- A - Alarm Circuit #3 Individual - 0VDC (Normal), +24VDC (Activated)
- D - Alarm Circuit #2 Individual - 0VDC (Normal), +24VDC (Activated)
- G - Alarm Circuit #1 Individual - 0VDC (Normal), +24VDC (Activated)
- C - Not Used
- F - System Common Supply - -24VDC
- I - Supervisory Loop
- H - Supervisory Loop

Alarm Individuals: (R3)

- B - Alarm Circuit #5 Individual - 0VDC (Normal), +24VDC (Activated)
- A - Alarm Circuit #6 Individual - 0VDC (Normal), +24VDC (Activated)
- D - Alarm Circuit #7 Individual - 0VDC (Normal), +24VDC (Activated)
- G - Alarm Circuit #8 Individual - 0VDC (Normal), +24VDC (Activated)
- C - Not Used
- F - System Common Supply - -24VDC
- I - Supervisory Loop
- H - Supervisory Loop

SYSTEM STRUCTURE - Cont'd

6501-0800 PANEL (Cont'd)

Terminal Designation:

One block per circuit.

1	- Supervised Remote Alarm Lamp Output
2	- Unsupervised Remote Alarm Lamp Output
3	- +24VDC Output To Alarm Initiating Devices
4	- +24VDC Return From Initiating Devices (Activated)
5	- Remote Trouble Lamp Output (Optional/Module)
6	- Class "A" Connect For Terminal #3
7	- Class "A" Connect For Terminal #4

SYSTEM STRUCTURE - Cont'd

6504 PANEL

SINGLE STAGE, SINGLE STROKE, U/O 6500/6500 MARK II

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

(R2)

- A Rate Change - Closed For 120 SPM
- B Open For 20 SPM
- C - Not Used
- D - Signal Timing - 0VDC (Normal)
- F - Signal Timing - 0VDC (Normal) +24VDC Activated
- G - Not Used
- H Supervisory Loop
- I

- JP3 - For Internal Use Only
- JP4 - For Internal Use Only
- JP5 - For Internal Use Only

SYSTEM STRUCTURE - Cont'd

6509 PANEL

TWO STAGE, SINGLE STROKE

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Rate Control: (R2)

- I - Supervisory Loop
- H - Supervisory Loop
- G - Signal Timing Programmable Output On G.A. (-24VDC)
- D - Programmable Signal Timing Output Flashed (-24VDC)
- A - G.A. Activated Rate Change Control
- B - G.A. Activated Rate Change Control
- C - Not Used

General Evacuation Input: (R3)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - Individual Input - Requires +24VDC To Activate Two Stage G.A. Relay

JP4 - Internal Use Only

SYSTEM STRUCTURE - Cont'd

6509-3 PANEL

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Rate Control: (R2)

- H - Supervisory Loop
- I - Supervisory Loop
- G - Signal Timing Programmable Output On G.A. (-24VDC)
- D - Programmable Signal Timing Output Flashed (-24VDC)
- A - G.A. Activated Rate Change Control
- B - G.A. Activated Rate Change Control
- C - Not Used

Diode Matrix Connection: (R4)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Positive Input Via (105 Cap). Used With 6503-100 Panels.
- D - Positive Stroking Output To Diode Matrix Via 46050-0187 Cable

- JP3 - Internal Use Only
- JP5 - Internal Use Only

SYSTEM STRUCTURE - Cont'd

6509-4 PANEL

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Rate Control: (R2)

- I - Supervisory Loop
- H - Supervisory Loop
- G - Signal Timing Programmable Output On G.A. (-24VDC)
- D - Programmable Signal Timing Output Flashed (-24VDC)
- A - G.A. Activated Rate Change Control
- B - G.A. Activated Rate Change Control
- C - Not Used

General Evacuation Input: (R3)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - Individual Input Requires (+24VDC) To Activate Two Stage G.A. Relay

General Evacuation Output: (R4)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Flashed Negative (Via 105 Cap) To E Line Of Systems Commons
- D - Negative Output To General Alarm Signals (Cables 46050-0130 to -0136)

SYSTEM STRUCTURE - Cont'd

6509-27 PANEL

TWO-STAGE CONTROLLED SIGNALS

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Rate Control: (R2)

- I - Supervisory Loop
- H - Supervisory Loop
- G - Signal Timing Programmable Output On G.A. (-24VDC)
- D - Programmable Signal Timing Output Flashed (-24VDC)
- A - G.A. Activated Rate Control
- B - G.A. Activated Rate Control
- C - Not Used

General Evacuation Input: (R3)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - Individual Input - Requires (+24VDC) To Activate Two Stage G.A. Relay

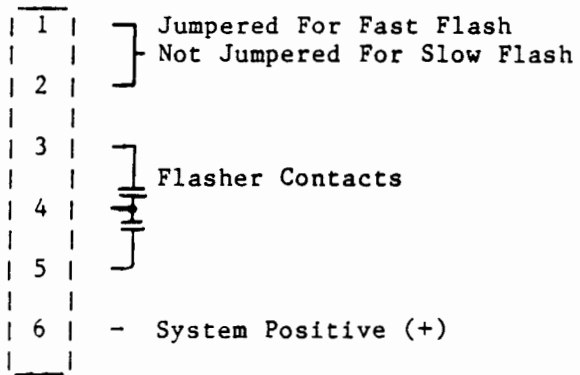
General Evacuation Output: (R4)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Flashed Negative (Via 105 Cap) to E Line of Systems Commons
- D -

SYSTEM STRUCTURE - Cont'd

6509-27 PANEL (Cont'd)

Terminal Designation:



SYSTEM STRUCTURE - Cont'd

6513 PANEL

SIGNAL CIRCUIT PANEL

Systems Commons: (R1 & P1)

- A - Systems Positive Supply - +24VDC
- B - Lamp Test - 0 Volts (Normal), +24VDC (Activated)
- C - Trouble Common - 0 Volts (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0 Volts (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0 Volts (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0 Volts (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - -24VDC (Normal)
- I - System Common Supply - -24VDC

Signals Individuals: (Receptacle R2)

- A - Signal Circuit #4 - Requires Positive Input For Activation
- B - Common For Signal Relays - Requires Negative Input For Activation
- C - Signal Timing - 0 Volts (Normal), +24 Volts Activated
- D - Signal Circuit #3 - Requires Positive Input For Activation
- E - System Positive Supply - +24 Volts
- F - Supervisory Loop - -24 Volts (Normal)
- G - Signal Circuit #2 - Requires Positive Input For Activation
- H - Signal Circuit #1 - Requires Positive Input For Activation
- I - Supervisory Loop

Power Receptacle: (R3)

- A - Supervisory Loop - -24VDC (Normal)
- B - Supervisory Loop - -24VDC (Normal)
- C - Positive Volts DC or Line Neutral (N)
- D - Negative Volts DC or Line Power (L1)

SYSTEM STRUCTURE - Cont'd

6514-81 PANEL

MASTER CONTROL PANEL

Systems Commons: (R1)

- A - Systems Positive Supply - +24VDC Normal
- B - Lamp Test - 0 Volts (Normal), +24VDC (Activated)
- C - Trouble Common - 0 Volts (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0 Volts (Normal), +8.2VDC (Activated)
- E - Subsequent Trouble Pulse Input
- F - Signal Timing - 0 Volts (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0 Volts (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop
- I - System Common Supply

Battery Connection: (R2)

- A } -24VDC Input From Standby Battery On Line 1 Failure
- B } -24VDC Input From Standby Battery On Line 1 Failure
- C } -24VDC Input From Standby Battery On Line 1 Failure
- D } System +24VD
- E } System +24VD
- F } System +24VD
- H - Battery Charger Negative Input
- B - Battery Lead Supervision Line

Signal Circuit Power: (R3)

- A - Supervisory Loop
- B - Supervisory Loop
- C - (+24VDC) or (N - 120VAC) Output For Signal Power
- D - (-24VDC) or (L - 120VAC) Output For Signal Power

Auxiliary Relay: (R4)

- A - Supervisory Loop
- B - Supervisory Loop
- C - (+24VDC) Fire Department Relay Activated Output For Auxiliary Relays
- D - (-24VDC) Fire Department Switch Controlled Output For Auxiliary Relays

Zone Relays: (R5)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - (-24VDC) Fire Department Switch Controlled Output For Auxiliary Relays

SYSTEM STRUCTURE - Cont'd

6514-81 PANEL (Cont'd)

AC Power Receptacle: (R6)

F - Supervisory Loop
C - Supervisory Loop
D }
A } Line Source (L1)
G }
H }
E } Line Source (N)
B }







Fire Department Programmable Output: (R7)

A - Supervisory Loop
B - Supervisory Loop
C - N.O. Fire Department Contact
D - Programmable Inut (+24VDC) For Fire Department Relay

Features Programmable Output: (R8)

A - Supervisory Loop
B - Supervisory Loop
C - +24VDC Output On Fire Drill
D - +24VDC Output On G.A.

Terminal Designation:

+ - +24VDC System Positive
H - Trouble Horn (-24VDC Activated)
P - -24VDC Output
L - Remote Trouble Lamp Output (-24VDC Activated)
RR - Remote Reset Input (+24VDC Activated)
RSS - Remote Signal Silence Input (+24VDC Activated)
LF - Remote Lamp Failure (-24VDC Activated)
SL - Remote Signal Silence Lamp (+24VDC Activated)
SL1 - System -24VDC Output (Breakered 1.9 Amp "B2")
9 - Remote Lamp Failure Output
10 - Remote Supervised Annunciator Output (-24VDC)
12 - Remote Unsupervised Annunciator Output (-24VDC)
13  N.O.
14  Trouble Operated
15  N.C.
16  N.O.
17  Alarm Operated
18  N.C.

SYSTEM STRUCTURE - Cont'd

6524-1 PANEL

SUPERVISED MASTER ANNUNCIATOR PANEL

P3: Power Plug

- A - Supervisory Loop
- B - Supervisory Loop
- C - System +24VDC
- D - System -24VDC

P2: Individual Alarm Circuit Input

- G - Circuit #1 Input (+24VDC)
- D - Circuit #2 Input (+24VDC)
- A - Circuit #3 Input (+24VDC)
- B - Circuit #4 Input (+24VDC)
- F - (-24VDC) Common
- H - Supervisory Loop
- I - Supervisory Loop

R1: Individual Receptacle

- G - Positive Output On Circuit #1 Activation
- D - Positive Output On Circuit #2 Activation
- A - Positive Output On Circuit #3 Activation
- B - Positive Output On Circuit #4 Activation
- F - (-24VDC) Common
- H - Supervisory Loop
- I - Supervisory Loop

R2: Power Receptacle

- G - System +24VDC
- C - Circuit #1 Supervision Line
- B - Circuit #2 Supervision Line
- A - Circuit #3 Supervision Line
- D - -24VDC Line
- I - Supervisory Loop
- H - Supervisory Loop

SYSTEM STRUCTURE - Cont'd

6524-1 PANEL (Cont'd)

Terminal Designations:

A1 - Circuit #1 Supervised Output For Remote Annunciator 1
B1 - Circuit #1 Supervised Output For Remote Annunciator 2
C1 - Circuit #1 Supervised Output For Remote Annunciator 3
A2 - Circuit #2 Supervised Output For Remote Annunciator 1
B2 - Circuit #2 Supervised Output For Remote Annunciator 2
C2 - Circuit #2 Supervised Output For Remote Annunciator 3
A3 - Circuit #3 Supervised Output For Remote Annunciator 1
B3 - Circuit #3 Supervised Output For Remote Annunciator 2
C3 - Circuit #3 Supervised Output For Remote Annunciator 3
A4 - Circuit #4 Supervised Output For Remote Annunciator 1
B4 - Circuit #4 Supervised Output For Remote Annunciator 2
C4 - Circuit #4 Supervised Output For Remote Annunciator 3
LA - +24VDC Remote Lamp Failure Output For Annunciator 1
LB - +24VDC Remote Lamp Failure Output For Annunciator 2
LC - +24VDC Remote Lamp Failure Output For Annunciator 3
A - Common Return For Remote Annunciator 1
B - Common Return For Remote Annunciator 2
C - Common Return For Remote Annunciator 3

SYSTEM STRUCTURE - Cont'd

6524-2 PANEL

SUPERVISED ANNUNCIATOR SLAVE PANEL

P1/R2: Power Commons

G - System +24VDC
C - Circuit #1 Supervision Line
B - Circuit #2 Supervision Line
A - Circuit #3 Supervision Line
D - -24VDC Line
I - Supervisory Loop
H - Supervisory Loop

P2: Individual Plug

G - Circuit #1 Input (+24VDC)
D - Circuit #2 Input (+24VDC)
A - Circuit #3 Input (+24VDC)
B - Circuit #4 Input (+24VDC)
F - (-24VDC) Common
H - Supervisory Loop
I - Supervisory Loop

R1: Individual Receptacle

G - Positive Output On Circuit #1 Activation
D - Positive Output On Circuit #2 Activation
A - Positive Output On Circuit #3 Activation
B - Positive Output On Circuit #4 Activation
F - System Negative - -24VDC (Normal)
H - Supervisory Loop
I - Supervisory Loop

Terminal Designations:

A1 - Circuit #1 Supervised Output For Remote Annunciator 1
B1 - Circuit #1 Supervised Output For Remote Annunciator 2
C1 - Circuit #1 Supervised Output For Remote Annunciator 3
A2 - Circuit #2 Supervised Output For Remote Annunciator 1
B2 - Circuit #2 Supervised Output For Remote Annunciator 2
C2 - Circuit #2 Supervised Output For Remote Annunciator 3
A3 - Circuit #3 Supervised Output For Remote Annunciator 1
B3 - Circuit #3 Supervised Output For Remote Annunciator 2
C3 - Circuit #3 Supervised Output For Remote Annunciator 3
A4 - Circuit #4 Supervised Output For Remote Annunciator 1
B4 - Circuit #4 Supervised Output For Remote Annunciator 2
C4 - Circuit #4 Supervised Output For Remote Annunciator 3

SYSTEM STRUCTURE - Cont'd

6524-3 PANEL

UNSUPERVISED ANNUNCIATOR MASTER PANEL

P3: Power Plug

- A - Supervisory Loop
- B - Supervisory Loop
- C - System +24VDC
- D - System -24VDC

P2: Individual Alarm Circuit Inputs

- G - Circuit #1 Input
- D - Circuit #2 Input
- A - Circuit #3 Input
- B - Circuit #4 Input
- F - -24VDC Common
- H - Supervisory Loop
- I - Supervisory Loop

R1: Individual Receptacles

- G - +24VDC Output On Circuit #1 Activation
- D - +24VDC Output On Circuit #2 Activation
- A - +24VDC Output On Circuit #3 Activation
- B - +24VDC Output On Circuit #4 Activation
- C - +24VDC Output On Circuit #5 Activation
- F - (-24VDC) Common
- H - Supervisory Loop
- I - Supervisory Loop

R2: Power Receptacle

- G - +24VDC
- C - Not Used
- B - Not Used
- A - Not Used
- D - -24VDC
- I - Supervisory Loop
- FH - Supervisory Loop

SYSTEM STRUCTURE - Cont'd

6524-3 PANEL (Cont'd)

Terminal Designations:

A1 - Circuit #1 Supervised Output For Remote Annunciator 1
B1 - Circuit #1 Supervised Output For Remote Annunciator 2
C1 - Circuit #1 Supervised Output For Remote Annunciator 3
A2 - Circuit #2 Supervised Output For Remote Annunciator 1
B2 - Circuit #2 Supervised Output For Remote Annunciator 2
C2 - Circuit #2 Supervised Output For Remote Annunciator 3
A3 - Circuit #3 Supervised Output For Remote Annunciator 1
B3 - Circuit #3 Supervised Output For Remote Annunciator 2
C3 - Circuit #3 Supervised Output For Remote Annunciator 3
A4 - Circuit #4 Supervised Output For Remote Annunciator 1
B4 - Circuit #4 Supervised Output For Remote Annunciator 2
C4 - Circuit #4 Supervised Output For Remote Annunciator 3
A - Remote Annunciator #1 Common Return
B - Remote Annunciator #2 Common Return
C - Remote Annunciator #3 Common Return

SYSTEM STRUCTURE - Cont'd

6524-4 PANEL

UNSUPERVISED ANNUNCIATOR MASTER PANEL

P1/R2:

H - Supervisory Loop
I - Supervisory Loop
G - System +24VDC
D - -24VDC Line
A - Not Used
B - Not Used
C - Not Used

P2: Individual Alarm Circuit Inputs

G - Circuit #1 Input
D - Circuit #2 Input
A - Circuit #3 Input
B - Circuit #4 Input
F - -24VDC Common
H - Supervisory Loop
I - Supervisory Loop

R1: Individual Receptacles

G - +24VDC Output On Circuit #1 Activation
D - +24VDC Output On Circuit #2 Activation
A - +24VDC Output On Circuit #3 Activation
B - +24VDC Output On Circuit #4 Activation
C - +24VDC Output On Circuit #5 Activation
F - (-24VDC) Common
H - Supervisory Loop
I - Supervisory Loop

R2: Power Receptacle

G - +24VDC
C - Not Used
B - Not Used
A - Not Used
D - -24VDC
I - Supervisory Loop
H - Supervisory Loop

SYSTEM STRUCTURE - Cont'd

6524-4 PANEL (Cont'd)

Terminal Designations:

A1 - Circuit #1 Supervised Output For Remote Annunciator 1
B1 - Circuit #1 Supervised Output For Remote Annunciator 2
C1 - Circuit #1 Supervised Output For Remote Annunciator 3
A2 - Circuit #2 Supervised Output For Remote Annunciator 1
B2 - Circuit #2 Supervised Output For Remote Annunciator 2
C2 - Circuit #2 Supervised Output For Remote Annunciator 3
A3 - Circuit #3 Supervised Output For Remote Annunciator 1
B3 - Circuit #3 Supervised Output For Remote Annunciator 2
C3 - Circuit #3 Supervised Output For Remote Annunciator 3
A4 - Circuit #4 Supervised Output For Remote Annunciator 1
B4 - Circuit #4 Supervised Output For Remote Annunciator 2
C4 - Circuit #4 Supervised Output For Remote Annunciator 3

SYSTEM STRUCTURE - Cont'd

6525-4 PANEL

AUXILIARY RELAY PANEL

P1/R1: Individuals Plug and Receptacle

- G - Individual Positive Input To Operate Relay #1
- D - Individual Positive Input To Operate Relay #2
- A - Individual Positive Input To Operate Relay #3
- B - Individual Positive Input To Operate Relay #4
- I - Supervisory Loop
- H - Supervisory Loop
- F - Common Negative Input To All Four Relays

R3: Programmable Receptacle

- A - Supervisory Loop
- B - Supervisory Loop
- C - Negative Output (Normally Via 105 Completion Cap)
- D - Negative Input From Alternate Source When Using A Diode Matrix

R4: Alternate Programmable Receptacle (Normally Remains Open)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - Alternate Negative Input When Programming

Terminal Designations:



SYSTEM STRUCTURE - Cont'd

6525-8 PANEL

AUXILIARY RELAY PANEL

P1/R1: Individuals Plug and Receptacle

- G - Individual Positive Input To Operate Relay #1
- D - Individual Positive Input To Operate Relay #2
- A - Individual Positive Input To Operate Relay #3
- B - Individual Positive Input To Operate Relay #4
- I - Supervisory Loop
- H - Supervisory Loop
- F - Common Negative Input To All Four Relays

P2/R2: Individuals Plug and Receptacle

- G - Individual Positive Input To Operate Relay #5
- D - Individual Positive Input To Operate Relay #6
- A - Individual Positive Input To Operate Relay #7
- B - Individual Positive Input To Operate Relay #8
- F - Common Negative Input To Relays
- H - Supervisory Loop
- I - Supervisory Loop

R3: Programmable Receptacle

- A - Supervisory Loop
- B - Supervisory Loop
- C - Negative Output (Normally Via 105 Completion Cap)
- D - Negative Input From Alternate Source When Using A Diode Matrix

R4: Alternate Programmable Receptacle (Normally Remains Open)

- A - Supervisory Loop
- B - Supervisory Loop
- C - Not Used
- D - Alternate Negative Input When Programming

SYSTEM STRUCTURE - Cont'd

6525-8 PANEL (Cont'd)

Terminal Designations:

1 
2
3
4

1 Form "C" Dry Contact To Terminals For Relay #1

4 
5
6

1 Form "C" Dry Contact To Terminals For Relay #2

1 
2
3
4

1 Form "C" Dry Contact To Terminals For Relay #3

4 
5
6

1 Form "C" Dry Contact To Terminals For Relay #4

1 
2
3
4

1 Form "C" Dry Contact To Terminals For Relay #5

4 
5
6

1 Form "C" Dry Contact To Terminals For Relay #6

1 
2
3
4

1 Form "C" Dry Contact To Terminals For Relay #7

4 
5
6

1 Form "C" Dry Contact To Terminals For Relay #8

SYSTEM STRUCTURE - Cont'd

6591-3 PANEL

HALON CROSS-ZONING PANEL, C/W ABORT FUNCTION

R1/P1: Systems Common

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

R2: Diode Matrix Output

- B - Supervisory Loop
- C - Supervisory Loop
- H - Positive Input From Diode Matrix To Activate Circuit #1
- G - Positive Input From Diode Matrix To Activate Circuit #2
- D - Positive Input From Diode Matrix To Activate Circuit #3
- A - Positive Input From Diode Matrix To Activate Circuit #4

R3: Diode Matrix Input

- H - Supervisory Loop
- I - Supervisory Loop
- G - Positive Output For Halon Dump Circuits When Cross-Zoning Occurs On Circuit #1
- D - Positive Output For Halon Dump Circuits When Cross-Zoning Occurs On Circuit #2
- A - Positive Output For Halon Dump Circuits When Cross-Zoning Occurs On Circuit #3
- B - Positive Output For Halon Dump Circuits When Cross-Zoning Occurs On Circuit #4

R4: Individual Abort Inputs

- H - +24VDC Input To Operate Relay S1 For Abort of Circuit #1
- G - +24VDC Input To Operate Relay S2 For Abort of Circuit #2
- D - +24VDC Input To Operate Relay S3 For Abort of Circuit #3
- A - +24VDC Input To Operate Relay S4 For Abort of Circuit #4
- B - Supervisory Loop
- C - Supervisory Loop

SYSTEM STRUCTURE - Cont'd

6591-7 PANEL

HALON TIME DELAY PANEL

R1/P1: Systems Common

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - OVDC (Normal), +24VDC (Activated)
- C - Trouble Common - OVDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - OVDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - OVDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - OVDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - OVDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

R2: Individual Input

- F - Supervisory Loop
- I - Supervisory Loop
- H - +24VDC Input To Start T.L.C. Circuit #1
- G - +24VDC Input To Start T.L.C. Circuit #2
- D - +24VDC Input To Start T.L.C. Circuit #3
- A - +24VDC Input To Start T.L.C. Circuit #4

P3: Individual Output

- I - Supervisory Loop
 - H - Supervisory Loop
 - G - Individual Time Delayed Output For Circuit #1 +24VDC Activated
 - D - Individual Time Delayed Output For Circuit #2 +24VDC Activated
 - A - Individual Time Delayed Output For Circuit #3 +24VDC Activated
 - B - Individual Time Delayed Output For Circuit #4 +24VDC Activated
 - C - Normally Jumpered For Signal Timing
- } N.O. Contact Closes After Time Delay

R4: Individual Output

- I - Supervisory Loop
 - H - Supervisory Loop
 - G - Individual Time Delayed For Circuit #1 +24VDC
 - D - Individual Time Delayed For Circuit #2 +24VDC
 - A - Individual Time Delayed For Circuit #3 +24VDC
 - B - Individual Time Delayed For Circuit #4 +24VDC
- } N.C. Contact Opens After Time Delay

SYSTEM STRUCTURE - Cont'd

6591-13 PANEL

R1/P1: Systems Commons

- A - Systems Positive Supply - +24VDC (Normal)
- B - Lamp Test - 0VDC (Normal), +24VDC (Activated)
- C - Trouble Common - 0VDC (Normal), +9VDC (Activated)
- D - Remote Lamp Failure - 0VDC (Normal), +8.2VDC (Activated)
- E - Not Used
- F - Signal Timing - 0VDC (Normal), -24VDC (Activated)
- G - Alarm Pulse - 0VDC (Normal), 0V to +24VDC (1/4 Sec. Pulse)
- H - Supervisory Loop - 0VDC (Normal), +9.2VDC (Activated)
- I - System Common Supply - -24VDC (Normal)

Diode Matrix Connection: (R2)

- B - Supervisory Loop
- C - Supervisory Loop
- H - +24VDC Input From Diode Matrix To Operate Circuit #1
- G - +24VDC Input From Diode Matrix To Operate Circuit #2
- D - +24VDC Input From Diode Matrix To Operate Circuit #3
- A - +24VDC Input From Diode Matrix To Operate Circuit #4

Diode Matrix Connection: (R3)

- H - Supervisory Loop
- I - Supervisory Loop
- G - +24VDC Cross-Zoned Output To Diode Matrix Input For Circuit #1
- D - +24VDC Cross-Zoned Output To Diode Matrix Input For Circuit #2
- A - +24VDC Cross-Zoned Output To Diode Matrix Input For Circuit #3
- B - +24VDC Cross-Zoned Output To Diode Matrix Input For Circuit #4

6500 MARK II

TROUBLE-SHOOTING PROCEDURES

GENERAL

The method used in trouble-shooting the 6500 Series of Fire Alarm System is by "process of elimination". This is accomplished by the use of completion caps, in a step-by-step sequential procedure, as follows:

WARNING

The control panel contains dangerous voltages. The system must be serviced by a qualified technician. All power sources must be disconnected before removing and connecting plug-in modules.

TROUBLE-SHOOTING PROCEDURES - Cont'd

PROCEDURES

Step 1

Trouble Signal Sounds

Silence signal. Trouble lamp will remain lit. Push and hold reset for three seconds and release. Observe panel for individual trouble indications.

Step 2

Fire Department or Individual Auxiliary Monitoring Lamps Lit As Well As Common Trouble Lamp

Check fire department switch or any individual relay disconnect switches for normal positioning and correct.

Step 3

Ground Fault and Common Trouble Lamp Lit

Refer to Chart attached (Page 5-4).

Step 4

Individual Zone Trouble Lamp and Common Trouble Lamp or Common Trouble Lamp Only Lit

Press and hold lamp test button while checking for burnt lamps. Replace any lamps not lit or replace entire module and check field wiring.

Step 5

All Lamps Light and Trouble Persists

Remove "P1" plug on the master panel (6514-81) and replace with PP#46050-0100 completion cap.

Step 6

With Completion Cap on R1 Of Control And Trouble Clears

Replace P1 on 6514-81 panel R1 and follow the cabling to the next panel electrically above. Remove P1 from R1 and place an -0100 completion cap on R1.

Repeat this process each time with the panel electrically above the last until the panel is found that does not clear trouble when R1 is capped. This panel will be the trouble source.

TROUBLE-SHOOTING PROCEDURES - Cont'd

To trouble-shoot individual panels, replace each circuit with a vacancy module, one at a time, until the circuit is located that is causing the trouble. If all modules are replaced with vacancy card and the panel still causes a trouble condition, then replace the panel.

Step 7

With Completion Cap On R1
Of Control And Trouble Persists

Cap each receptacle, one at a time, on the main control with their respective completion caps (refer to Points A to G following). If the trouble clears with any one completion cap, then check the cabling to it and the unit connected. Batteries, signal power, etc. for supervisions, proper voltages and replace. If trouble does not clear then replace control modules and then panel.

Point A Persists

Leave -0100 cap on R1 of 6514-81 and cap off R2 of 6514-81 with a 46050-Q348 completion cap. (Battery) Trouble clears - check battery thoroughly or replace.

Point B Persists

Leave caps on R1 and R2 and cap off R3 with a -0104 completion cap. (Signal) Trouble clears - check cable to signal strips.

Point C Persists

Leave caps on R1, R2 and R3 and completion cap off R4 with a -0104 completion cap. (Auxiliary Relays) Trouble clears - check auxiliary relay panels, one at a time, and replace faulty one.

Point D Persists

Leave caps on R1, R2, R3, R4 and cap off R6 with a -0102 cap. (Power) Trouble clears - check power panel connected for supervision, etc. and replace.

Point E Persists

Remove all field wiring from control and trouble-shoot. (Note) Place a jumper between terminals 9 and 10 on 6514-81 control.

Point F Persists

Replace main control modules.

Point G Persists

Replace panels.

TROUBLE-SHOOTING PROCEDURES - Cont'd

GROUND FAULT LAMP LIT

- A. Replace module and, if trouble persists, refer to B.
- B. One at a time, pull the signal modules and then the alarm zone modules, each time allowing five seconds to check the ground fault indicator to see if it clears. When the circuit module is located that clears the ground fault, then check and repair that zone's field wiring. If trouble persists, refer to C.

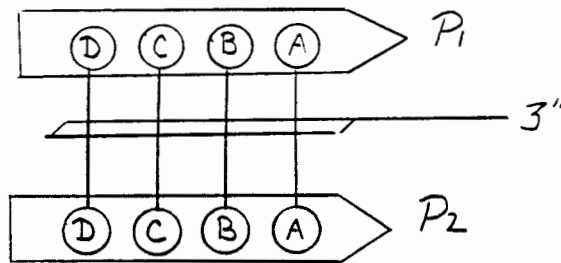
Note: To avoid false alarming the system, it is advisable to pull all alarm zone modules until the fault is found, power down, and then reinsert the alarm cards, all but the faulty circuit.

- C. Disconnect remote annunciator common wire from terminals #10 on the 6514-81 panel. If trouble persists, refer to D.
- D. Check all remaining field wiring connections to the panel. If trouble persists, refer to E.
- E. Replace main control module or ground detector module and thoroughly inspect main panels for wiring.

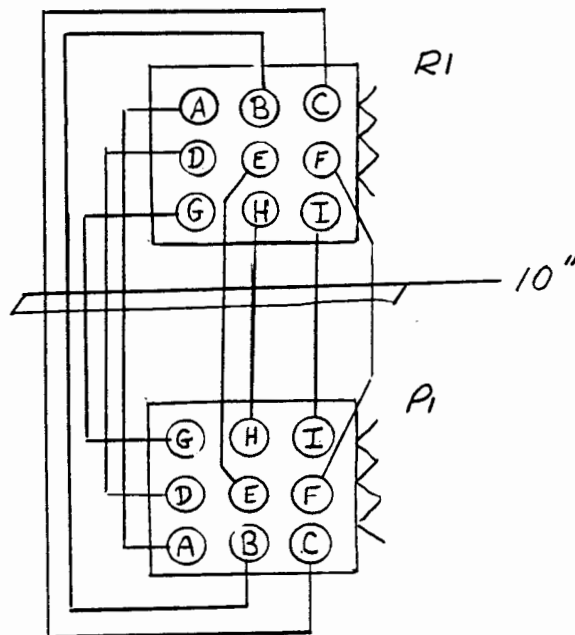
6500 MARK II

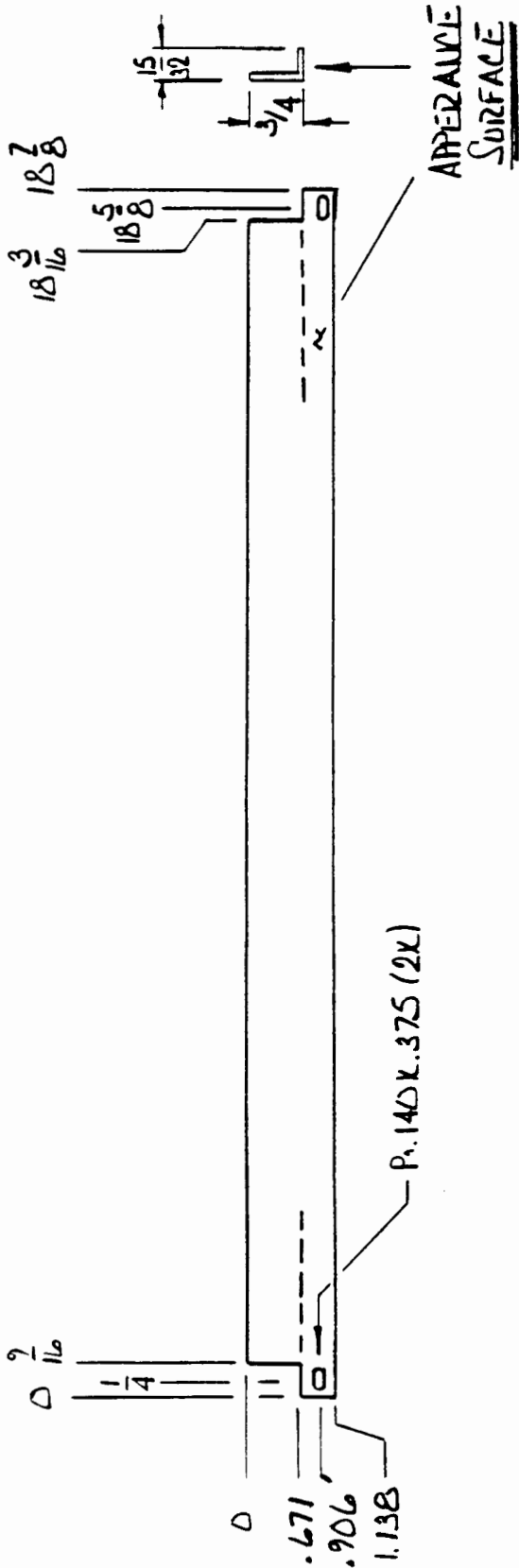
SPECIAL CABLE REQUIREMENTS

P.P. 46050-1387 - This cable is required and must be ordered separately whenever ordering or installing a 6525-4 or -8 auxiliary relay strip panel.



P.P. 46050-0145 - This cable is required and must be ordered separately whenever ordering a 6524 Series annunciator panel, or 6501-0800 Series panel as an add to.





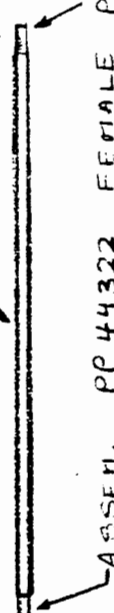
MATERIAL - 18 GA. ADS
 FINISH - CHALK PINK

12 12570

TITRE TOP OR BOTTOM DEADFRONT FOR 6500 MARK II

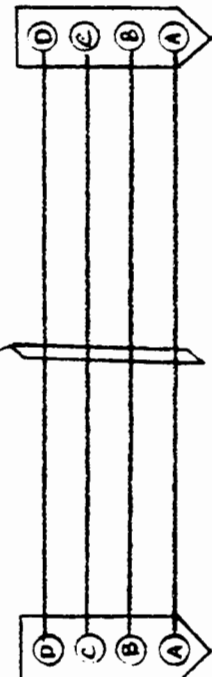
UNE FILIALE DE GENERAL SIGNAL A UNIT OF GENERAL SIGNAL	EDWARDS	PAR <i>AS</i>	BY	VER	CH	APP	DATE OCT 13/87	ECHELLE 1/4	SCALE
		TOL. SAUF SPECIFIE CONTRAIRE +/- .5mm		DECIMAUX +/- .015	FRACTIONS +/- 1/32	FORMAT A	NO. DU DESSIN 46068-0011	EDITION 1	ISSUE
		TOL. UNLESS OTHERWISE SPECIFIED		DECIMALS +/- .015	SIZE	NO. DU DESSIN 46068-0011			

46005-0581 LEAD ASS'Y
 ↓
 PP# 7897-0013 LEAD
 (3" - .187/.187 STRIP
 #16AUG/BLACK - STRANDED)



ASSEM. PP 44322 FEMALE PIN EACH END

PP# 46005-0581 3" LEAD ASS'Y (F-3-F)
 LEAD ASS'Y (4X) (AS SHOWN ABOVE)



46050-1387
 CABLE ASS'Y

PP# 45421 RECEPT. (2X)

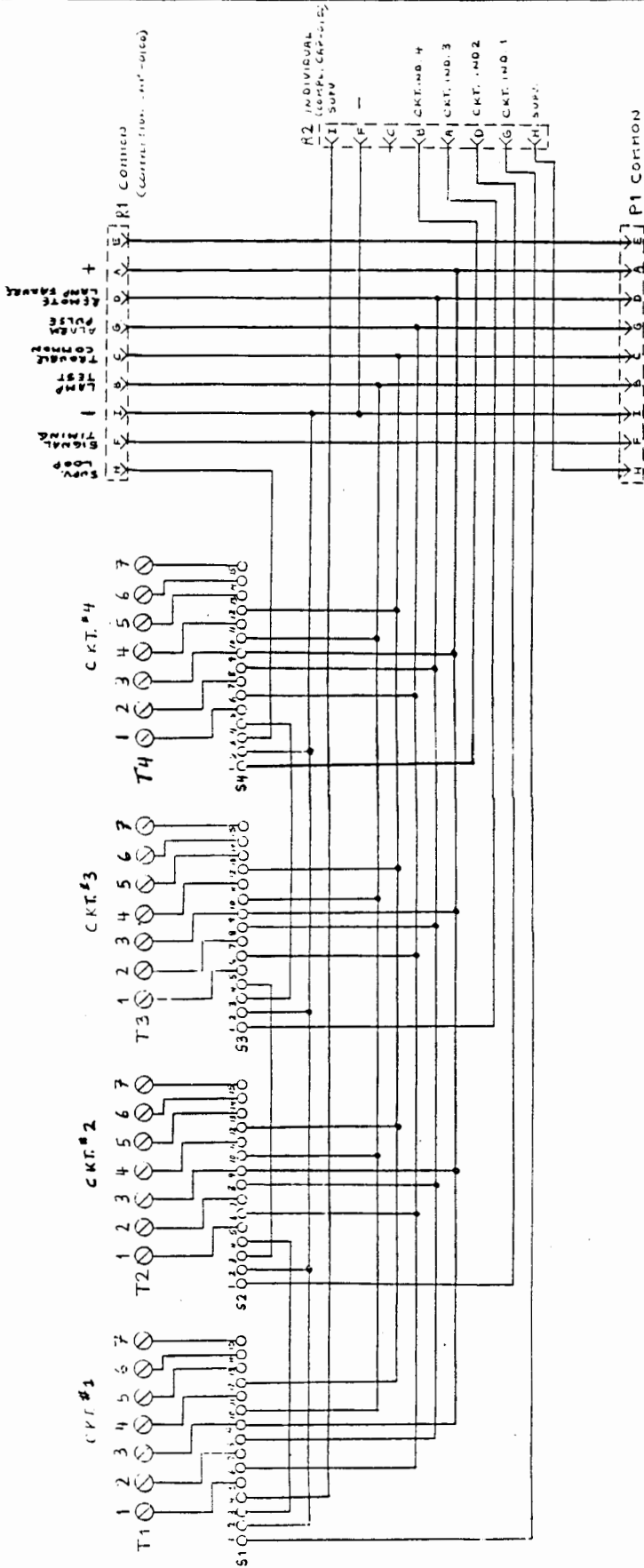
M.F.L

1 - c/n 18570

TITLE ADAPTER CABLE v/o 6500 MARK II

THE EDWARDS COMPANY A UNIT OF GENERAL ELECTRIC EDWARDS	PAR 188 TOL. SAUF SPECIFIC CONTRAINE +/- .008 TOL. UNLESS OTHERWISE SPECIFIED	BY VER CH APP	DATE August 14/87 FORMAT A SIZE	EDWELLE NO. DU DESIGN 46050-1387 DUB. NO.	SCALE BOTTOM 1 IMAGE

1002-15-1
REV. 10-15-66

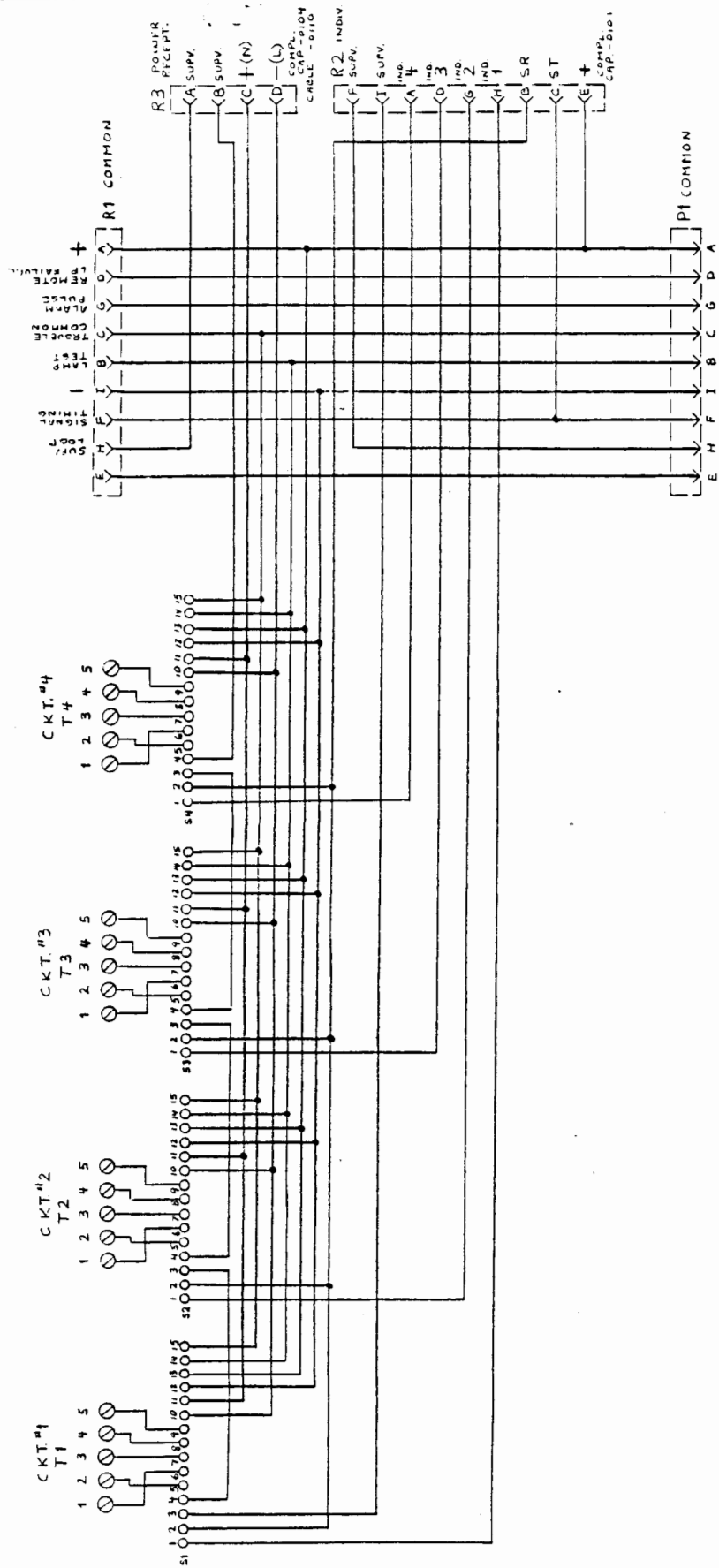


REV.	DATE	BY	CHK.	REVISIONS
5	10/15/66	W. J.
EDWARDS SCHEMATIC - CLEAR RECEIVING COST. PROJECT 6501 (46211-1343)				
REFERENCE TO SPECIAL CONTROLS REFERENCE TO SPECIAL CONTROLS SPECIFIED REFERENCE TO SPECIAL CONTROLS SPECIFIED				
APP'D BY	DATE	CHK'D BY	DATE	REVISION
W. J. ...	10/15/66

STL ACCURATE - 6501-2/2A
 - VACUUM RELAY - 76213-0050

PREP BY	DATE	CHK'D BY	DATE	REVISION
...
...

FORM C
10-1538
NOV 66 EDITION



REV	BY	DATE	REASON
1	US		REVISED - C/N - 18564
2	US		REWORK
3	US		REWORK
4	US		REWORK
5	US		REWORK
6	US		REWORK
7	US		REWORK
8	US		REWORK
9	US		REWORK
10	US		REWORK

EDWARDS
LINE 1118

SCHEMATIC - MAIN
SIGNAL CIRCUIT - 6513 -
v/b 6500
PP # 46213-1392

TOLERANCE AND PARTS CONTAINER
DIMENSION = 0.15
TOLERANCE = 0.15
DIMENSION = 0.15

DATE BY DESIGNED BY CHECKED BY
10/15/68 US PJP

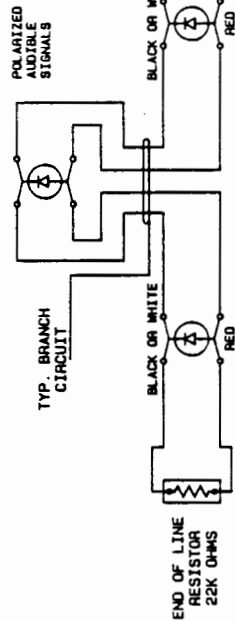
FORM C
102-1538
NOV 66 EDITION

Handwritten note: to p. 1538

- STD. DEAD FRONT - 46001-1393
- STD. MODULES - 46001-1873
- 6513-187-18A
- 6513-197-19A
- VACANCY MODULE - 46213-0050

PREP BY	DATE	REL. TO	NO. OF SHEETS	SHEET NO.
PJP	10/15/68	1392	102	1538
REL. TO	NO. OF SHEETS	SHEET NO.		
1392	102	1538		

6513-U
NO. DU BISSIN



INSTALLATION

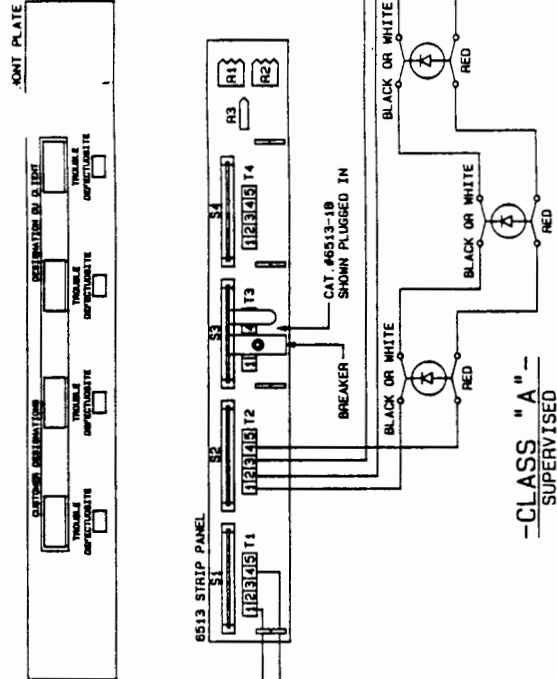
GENERAL

THIS STRIP PANEL (6513) DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6513-18) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS STRIP PANEL HAS PROVISION FOR 4 SIGNAL CIRCUITS (E.G. SIGNAL CIRCUITS 1-4). ADDITIONAL STRIPS MAY BE LOCATED BELOW TO INCREASE THE NUMBER OF SIGNAL CIRCUITS (E.G. SIGNAL CIRCUITS 5-8, 9-12, ETC.). THE INSTALLATION AND OPERATION OF ADDITIONAL STRIPS WILL BE THE SAME. SIGNAL CIRCUITS NUMBER FROM LEFT TO RIGHT.

1. THE GAUGE OF WIRE REQUIRED FOR EACH SIGNAL CIRCUIT DEPENDS ON THE FOLLOWING:
 - 1) CAT. NO. OF THE AUDIBLE SIGNAL.
 - 2) THE NUMBER OF AUDIBLE SIGNALS.
 - 3) THE WIRING DISTANCE FROM THE CONTROL PANEL TO THE LAST AUDIBLE SIGNAL.
 - 4) WHETHER THE AUDIBLE SIGNALS ARE EVENLY DISTRIBUTED OVER THE DISTANCE OR ARE GROUPED NEAR THE END OF THE WIRE RUN.
- WHEN THE FOUR VARIABLES MENTIONED ABOVE ARE KNOWN FOR EACH SIGNAL CIRCUIT, SEE SIGNAL CIRCUIT NOMOGRAPH, DWG. C-PP-6513-11. FOLLOW INSTRUCTIONS TO FIND MINIMUM WIRE GAUGE ALLOWED BY THIS PANEL.

NATIONAL RESTRICTIONS

- WIRE SIZES SMALLER THAN #14 AWG. SHALL BE IN MULTI-CONDUCTOR CABLES IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, SECTION 32 OR ANY LOCAL REGULATIONS WHICH APPLY.
3. SIGNAL CIRCUIT OUTPUT IS RATED AT 3 AMP. AT 120VAC. OVER-CURRENT PROTECTION IS PROVIDED BY THE 3 AMP. BREAKER ON EACH 6513-18 MODULE. PRESS BREAKER PUSHBUTTON TO RESTORE BREAKER.
 4. ALL SIGNAL DEVICES ARE POLARIZED AND ARE CONNECTED IN PARALLEL.
 5. ALL SIGNAL CIRCUIT Wires MUST BE FREE FROM GROUNDS AND OPENS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO STRIP PANEL.
 6. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6513-18 MODULES MAY BE INSERTED INTO SOCKETS S1 TO S4. INSERT MODULES WITH COMPONENT SIDE FACING DOWN. ANY UNUSED SIGNAL CIRCUIT WILL HAVE A VACANCY MODULE (PP 46213-0050) INSERTED IN THE UNUSED SOCKET.

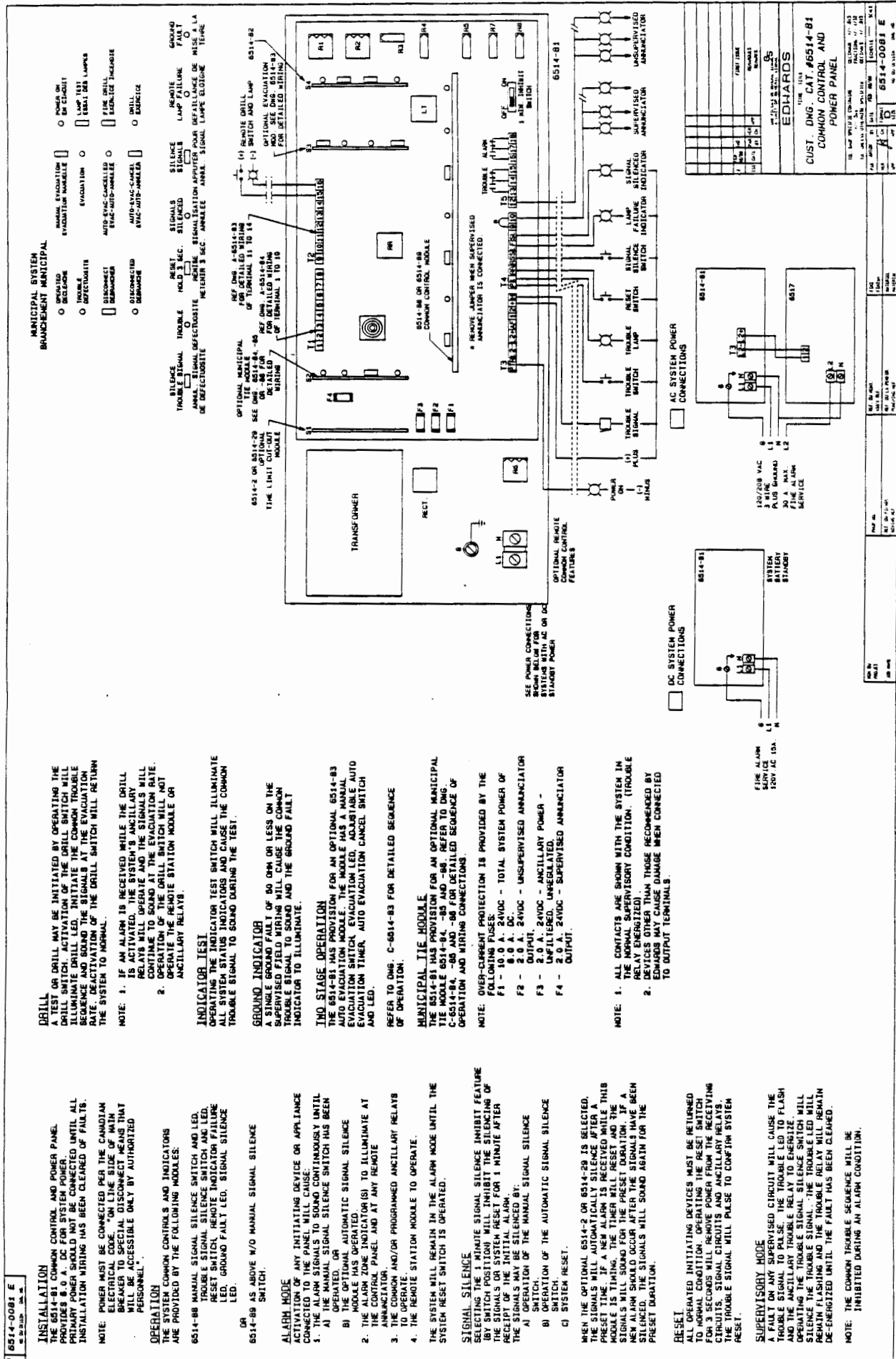


OPERATION

1. THE WIRING TO THE SIGNAL DEVICES AND THE SIGNAL DEVICES THEMSELVES ARE ELECTRICALLY SUPERVISED. A COMMON TROUBLE SIGNAL WILL RESULT FROM ANY OF THE FOLLOWING:
 - A) OPEN, OR GROUND FAULT ON THE WIRING TO THE SIGNALING DEVICES.
 - B) DIODE SHORTED IN THE SIGNAL DEVICE ITSELF.
2. THE CAT. NO. 6513-18 SIGNAL CIRCUIT MODULE MAY BE WIRED IN A CLASS "B" OR "A" CONFIGURATION. WHEN WIRED IN A CLASS "A" CONFIGURATION, A SINGLE OPEN OR GROUND FAULT WILL NOT PREVENT THE SIGNALS FROM SOUNDING DURING AN ALARM.
3. UPON AN ALARM, SIGNAL POWER WILL BE APPLIED TO THE SIGNAL DEVICES, CAUSING THEM TO SOUND.

REV. DATE BY CH				REV. DATE BY CH			
2 12/28/80				1 12/28/80			
ISS DATE				ISS DATE			
CADD POSITION				CADD POSITION			
REVISIONS				REVISIONS			
THE FOLLOWING IS A SUMMARY OF THE WORK EDWARDS TIME TITLE CUSTOMER DRAWING CAT. NO. 6513-0018 120V 60HZ SIGNAL CONTROL MODULE CL. A & B, C/W ZONE TR.L.T.							
TEL. SURF SPECIFIC CONTINUE ESTIMATE 1/2 015 FRACTIONS 1/2 015 DECIMALS 1/2 015 UNLESS OTHERWISE SPECIFIED							
PAR	DATE	BY	SCALE	DATE	BY	SCALE	SCALE
APP	APP	APP	APP	APP	APP	APP	APP
6513-0018 E				NO. DU BISSIN DWG. NO.			

REF. TO WHIT. ASS'Y. REF.	FIN. FINISH
REF. TO ILLUM. MODULE REF.	MATERIAL
PREP. NO.	
REF. TO FLAME WIRING REF.	
JOB NAME	



INSTALLATION
 THE COMMON CONTROL AND POWER PANEL SHOULD BE CONNECTED TO THE MAIN DC POWER SUPPLY. PRIMARY WIRING SHOULD BE CHECKED FOR CORRECTNESS BEFORE INSTALLATION. WIRING SHOULD BE CHECKED FOR CORRECTNESS BEFORE THE COMMON CONTROL AND POWER PANEL IS ENERGIZED.

NOTE: POWER MUST BE CONNECTED PER THE CANADIAN ELECTRIFICATION CODE (CEC) REQUIREMENTS. SPECIAL DISCONNECT DEVICES THAT WILL BE ACCESSIBLE ONLY BY AUTHORIZED PERSONNEL.

OPERATION
 THE SYSTEM COMMON CONTROLS AND INDICATORS ARE PROVIDED BY THE FOLLOWING MODELS:

6514-88 MANUAL SIGNAL SILENCE SWITCH AND LED.
 TROUBLE SIGNAL SILENCE SWITCH AND LED.
 MANUAL SIGNAL SILENCE SWITCH AND LED.
 GROUND FAULT LED, SIGNAL SILENCE LED.

OR

6514-89 AS ABOVE W/O MANUAL SIGNAL SILENCE SWITCH.

ALARM MODE
 ACTIVATION OF ANY INITIATING DEVICE OR APPLIANCE CONNECTED TO THE PANEL WILL CAUSE:

1. THE MANUAL SIGNAL SILENCE SWITCH TO BE OPERATED, OR

2. THE OPTIONAL AUTOMATIC SIGNAL SILENCE MODULE TO BE OPERATED.

3. THE ALARM ZONE INDICATOR(S) TO ILLUMINATE AT THE CONTROL PANEL AND AT ANY REMOTE STATION.

4. THE COMMON AND/OR PROGRAMMED ANCI L LARY RELAYS TO OPERATE.

5. THE REMOTE STATION MODULE TO OPERATE.

THE SYSTEM WILL REMAIN IN THE ALARM MODE UNTIL THE SYSTEM RESET SWITCH IS OPERATED.

SIGNAL SILENCE
 SELECTING THE 1 MINUTE SIGNAL SILENCE INHIBIT FEATURE WILL CAUSE THE SIGNAL SILENCE INHIBIT SWITCH TO BE OPERATED. THE SIGNALS OR SYSTEM RESET FOR 1 MINUTE AFTER THE INHIBIT SWITCH IS OPERATED.

NOTE: THE SIGNALS MAY BE SILENCED BY:

A) OPERATION OF THE MANUAL SIGNAL SILENCE SWITCH,
 B) OPERATION OF THE AUTOMATIC SIGNAL SILENCE SWITCH, OR
 C) SYSTEM RESET.

WHEN THE OPTIONAL 6514-2 OR 6514-20 IS SELECTED, THE SIGNALS WILL AUTOMATICALLY SILENCE AFTER A PRESET TIME. IF A NEW ALARM IS RECEIVED WHILE THIS SIGNAL SILENCE IS IN EFFECT, THE SIGNALS WILL REMAIN SILENT UNTIL THE PRESET TIME HAS ELAPSED. A NEW ALARM SHOULD OCCUR AFTER THE SIGNALS HAVE BEEN SILENCED. THE SIGNALS WILL SOUND AGAIN FOR THE PRESET DURATION.

RESET
 ALL OPERATED INITIATING DEVICES MUST BE RETURNED TO NORMAL CONDITION. OPERATING THE RESET SWITCH FOR 3 SECONDS WILL REMOVE POWER FROM THE RECEIVING CIRCUITS, SIGNAL CIRCUITS AND ANCI L LARY RELAYS. THE TROUBLE SIGNAL WILL PULSE TO CONFIRM SYSTEM RESET.

SUPERVISORY MODE
 A FAULT ON ANY SUPERVISED CIRCUIT WILL CAUSE THE TROUBLE SIGNAL TO PULSE. THE TROUBLE LED TO FLASH AND THE ANCI L LARY TROUBLE RELAY TO ENERGIZE. OPERATING THE TROUBLE SIGNAL SILENCE SWITCH WILL SILENCE THE TROUBLE SIGNAL. THE TROUBLE LED WILL REMAIN FLASHING AND THE TROUBLE RELAY WILL REMAIN DE-ENERGIZED UNTIL THE FAULT HAS BEEN CLEARED.

NOTE: THE COMMON TROUBLE SEQUENCE WILL BE INHIBITED DURING AN ALARM CONDITION.

DRILL TESTS OR DRILL MAY BE INITIATED BY OPERATING THE DRILL TEST SWITCH. THE DRILL TEST SWITCH WILL ILLUMINATE DRILL LED, INITIATE THE COMMON TROUBLE SEQUENCE AND SOUND THE SIGNALS AT THE EVACUATION RATE. DEACTIVATION OF THE DRILL SWITCH WILL RETURN THE SYSTEM TO NORMAL.

NOTE:

- IF AN ALARM IS RECEIVED WHILE THE DRILL IS ACTIVATED, THE SYSTEM'S ANCI L LARY RELAYS WILL OPERATE AND THE SIGNALS WILL CONTINUE TO SOUND AT THE EVACUATION RATE. OPERATION OF THE DRILL SWITCH WILL NOT OPERATE THE REMOTE STATION MODULE OR ANCI L LARY RELAYS.
- IF AN ALARM IS RECEIVED WHILE THE DRILL IS ACTIVATED, THE SYSTEM'S ANCI L LARY RELAYS WILL OPERATE AND THE SIGNALS WILL CONTINUE TO SOUND AT THE EVACUATION RATE. OPERATION OF THE DRILL SWITCH WILL NOT OPERATE THE REMOTE STATION MODULE OR ANCI L LARY RELAYS.

INDICATOR TEST
 OPERATING THE INDICATOR TEST SWITCH WILL ILLUMINATE ALL SYSTEM STATUS INDICATORS AND CAUSE THE COMMON TROUBLE SIGNAL TO SOUND DURING THE TEST.

GROUND INDICATOR
 A SINGLE GROUND FAULT OF 80 OHM OR LESS ON THE SUPERVISED FIELD WIRING WILL CAUSE THE COMMON TROUBLE SIGNAL TO SOUND AND THE GROUND FAULT INDICATOR TO ILLUMINATE.

INHIBIT OPERATION
 THE 6514-81 HAS PROVISION FOR AN OPTIONAL 6514-83 AUTO EVACUATION MODULE. THE MODULE HAS A MANUAL EVACUATION SWITCH, EVACUATION LED, ADJUSTABLE AUTO EVACUATION TIMER, AUTO EVACUATION CANCEL SWITCH AND LED.

REFER TO DNG. C-6514-83 FOR DETAILED SEQUENCE OF OPERATION.

MUNICIPAL TIE MODULE
 THE 6514-81 HAS PROVISION FOR AN OPTIONAL MUNICIPAL TIE MODULE 6514-84, 85 AND 86. REFER TO DNG. C-6514-84, 85 AND 86 FOR DETAILED SEQUENCE OF OPERATION AND WIRING CONNECTIONS.

NOTE: OVER-CURRENT PROTECTION IS PROVIDED BY THE FOLLOWING FUSES:

F1 - 10.0 A, 24VDC - TOTAL SYSTEM POWER OF 2.0 A, 24VDC - UNSUPERVISED ANNUNCIATOR
 F2 - 2.0 A, 24VDC - UNFILTERED, UNREGULATED.
 F3 - 2.0 A, 24VDC - ANCI L LARY POWER - UNFILTERED, UNREGULATED.
 F4 - 2.0 A, 24VDC - SUPERVISED ANNUNCIATOR OUTPUT.

NOTE: ALL CONTACTS ARE SHOWN WITH THE SYSTEM IN THE NORMAL SUPERVISORY CONDITION. (TROUBLE RELAY ENERGIZED). THOSE RECOMMENDED BY EDWARDS OTHER THAN THOSE WHEN CONNECTED TO OUTPUT TERMINALS.

DC SYSTEM POWER CONNECTIONS

120/208 VAC
 3 WIRE PLUS GROUND
 2.0 A, 24VDC SERVICE
 2.0 A, 24VDC SERVICE

AC SYSTEM POWER CONNECTIONS

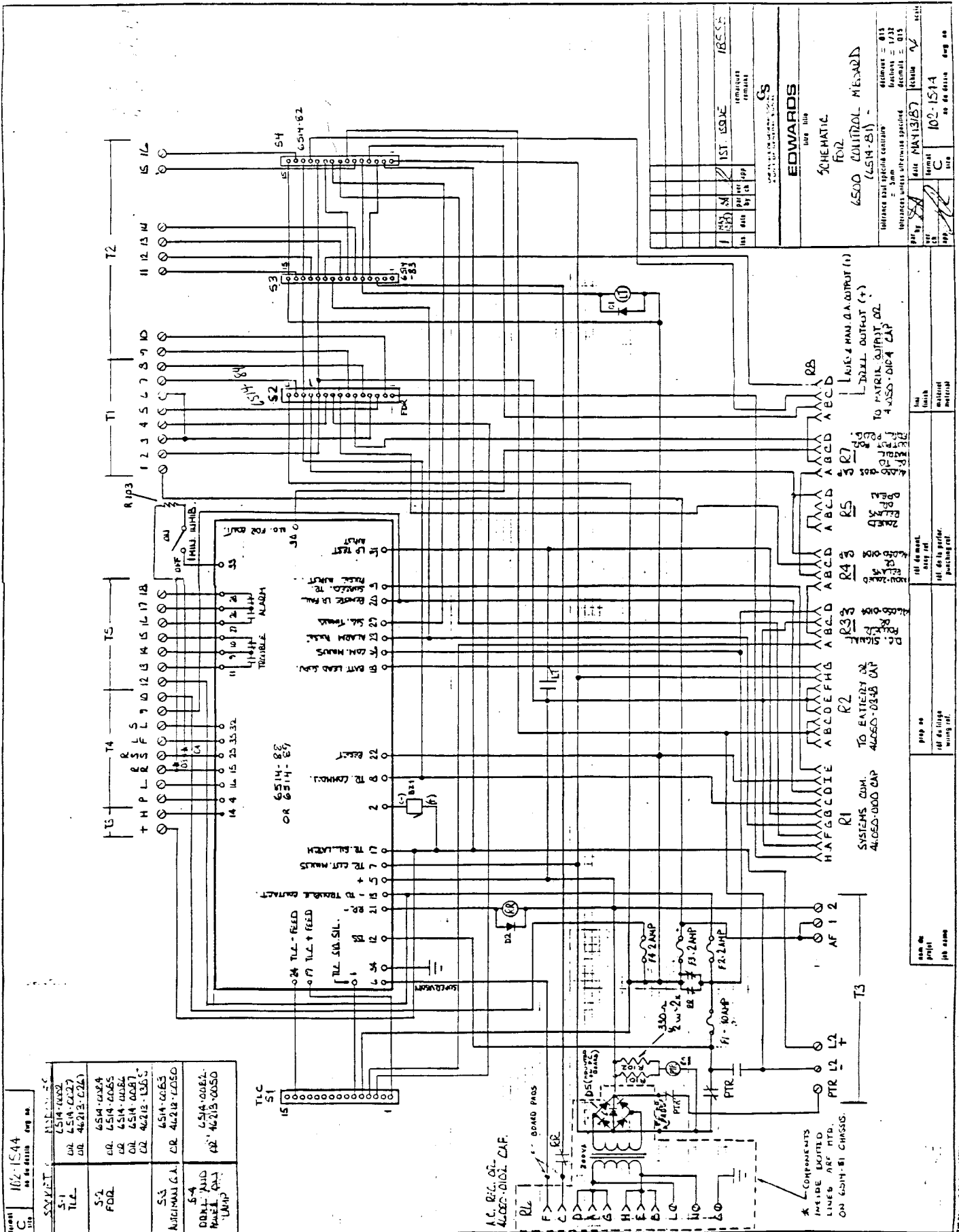
120/208 VAC
 3 WIRE PLUS GROUND
 2.0 A, 24VDC SERVICE

6514-81 SYSTEM BATTERY STANDBY

TEST PROCEDURE

NO.	TEST	TIME	INITIAL	FINAL
1	DRILL TEST	10		
2	INDICATOR TEST	10		
3	GROUND FAULT TEST	10		
4	ALARMS	10		
5	RESET	10		
6	SIGNAL SILENCE	10		
7	TROUBLE SIGNAL	10		

EDWARDS
 1500 W. BROADWAY
 DENVER, CO 80202
 TEL: 303-733-1000
 FAX: 303-733-1001
 CUST. DNG. CAT. #6514-81
 COMMON CONTROL AND POWER PANEL
 6514-0081 E



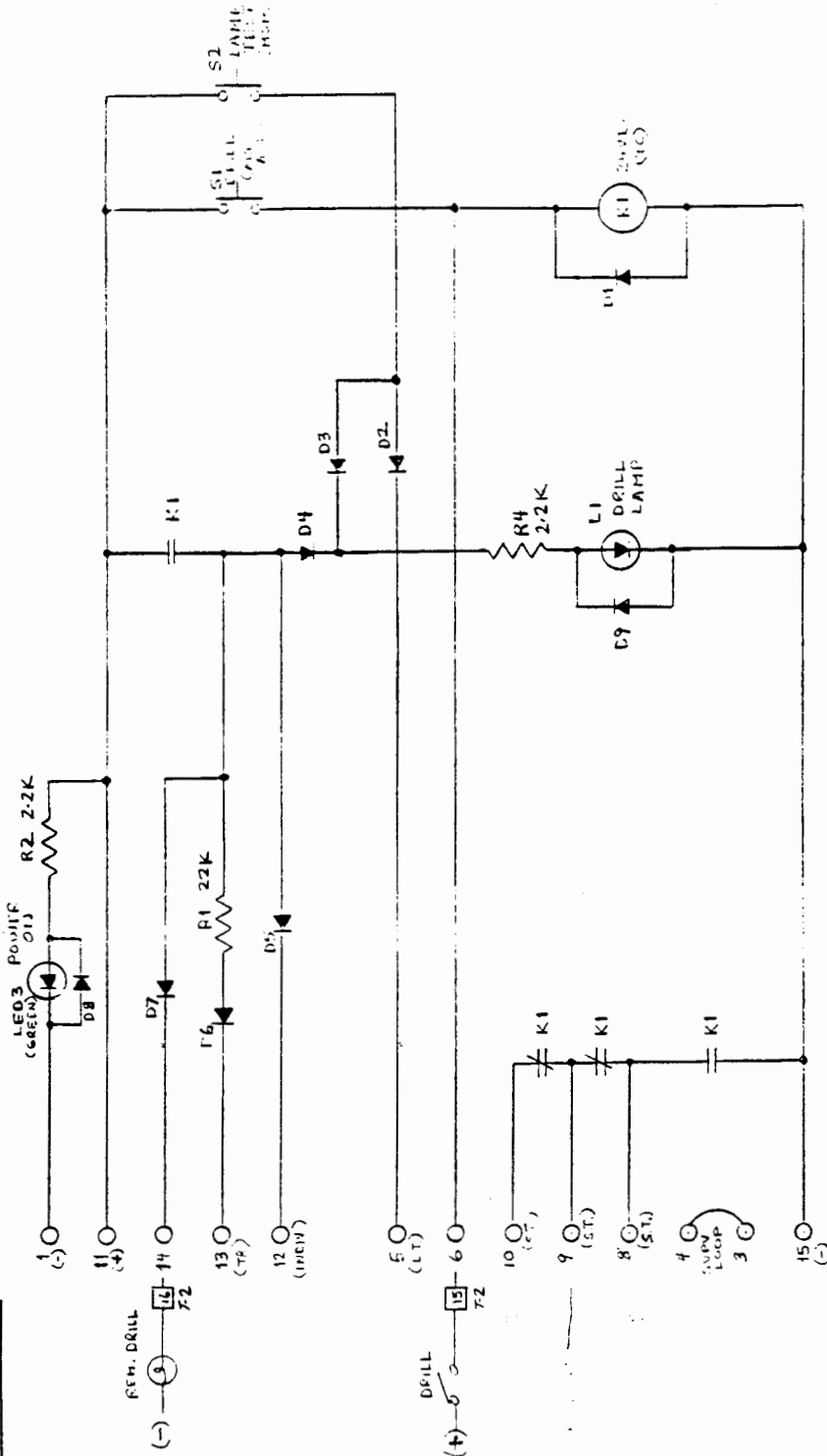
ITEM	REV.	DATE	BY
C	162	5/44	AS

SYMBOL	DESCRIPTION
S-1	TLC
S-2	FDD
S-3	ORIGINAL G.A.
S-4	DOUBLE AUDIO PANEL (2) UNAP.

DESIGNED BY	IST-LSONE
PERFORMED BY	
CHECKED BY	
DATE	MAY 13 1957
REVISION	1
WORKSHEET NO.	102-1514
DATE	102-1514
BY	
FOR	

EDWARDS
SCHEMATIC FOR
6500 CONTROL MODULE
REVISED 1/31
ORIGINAL = 013
REVISION = 1732
GENERAL = 015
INTERFERENCE UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DATE MAY 13 1957
REVISION 1

format **B**
102-1536
no. de desin **102** **1536**
eng. no.



1-15354

nom de projet	prop no.	date de ref.	ref. eng.
EDWARD B	C-46213-1390		
titre	SCHEMATIC	LIBRE + POSITION DE	LIBRE + POSITION DE
par	JR	ch	app.
date	MAY 11 1954	decimale ±	015
format	B	fraction ±	1/32
no. de desin	102	decimale ±	018
no. de dessin	1536	fraction ±	1/32
no. de dessin	102	decimale ±	018
no. de dessin	1536	fraction ±	1/32

INSTALLATION

CUSTOMER TO DETERMINE TYPE OF CONNECTION (ALTERNATIVE) REQUIRED AND WIRE GAUGE TO BE USED FROM MANUFACTURER OF THE REMOTE STATION OR MUNICIPAL SYSTEM.

ALTERNATIVE 1
CONNECT 4 WIRES FROM THE MUNICIPAL BOX TO TERMINAL BLOCK T1 AS SHOWN, MAXIMUM LOOP RESISTANCE FROM TERMINALS #1 AND #4 IS 50 OHMS.

ALTERNATIVES 2, 3, 4 AND 5
END-OF-LINE-RESISTOR USED IF REQUIRED FOR ALTERNATIVES 2, 3, 4 AND 5. END-OF-LINE-RESISTOR VALUE FOR EACH ALTERNATIVE DEPENDS ON FIRE DEPT. OR REMOTE STATION EQUIPMENT.

AUXILIARY ALARM OPERATED CONTACTS
THE DRY CONTACTS (TERMINALS #8, #9 AND #10) ARE RATED AT 5 AMP, RESISTIVE AND 3 AMP, INDUCTIVE AT 24V.DC AND 120V.AC.

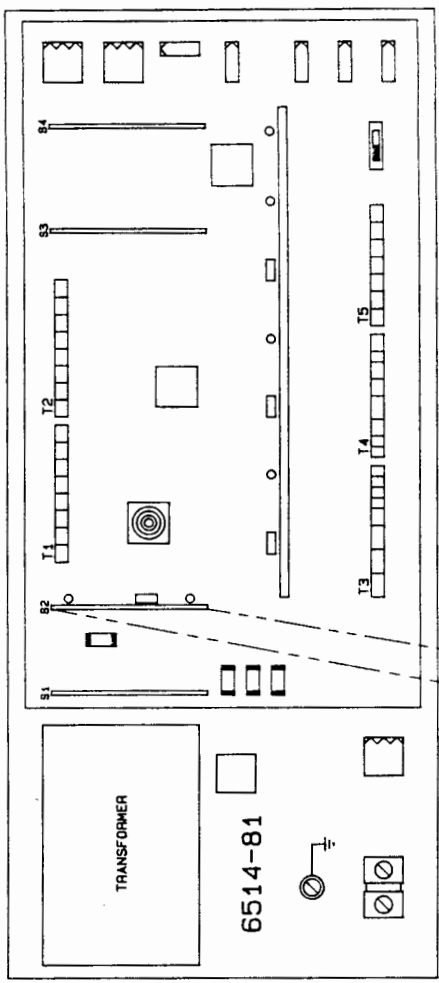
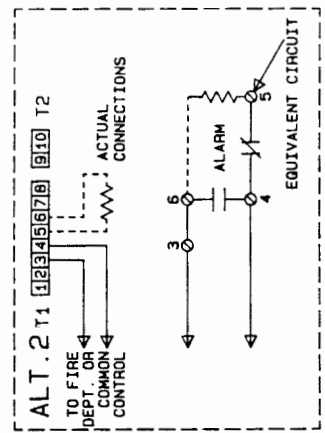
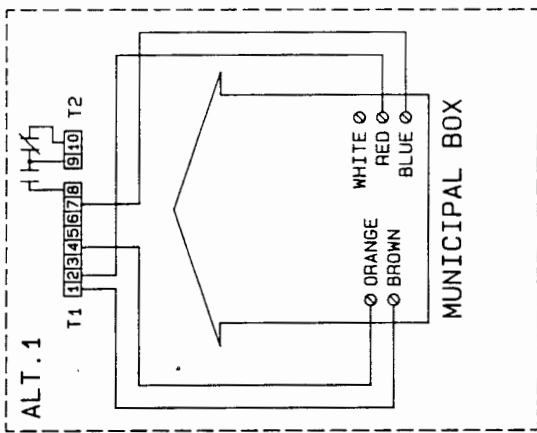
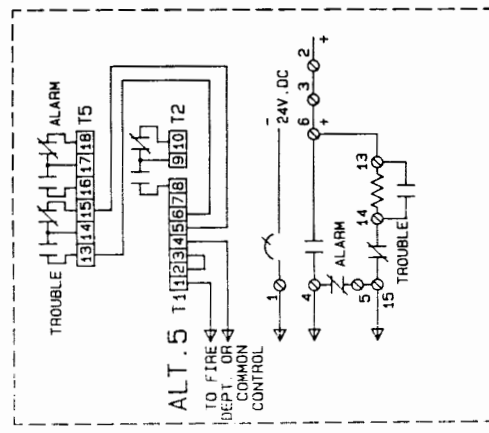
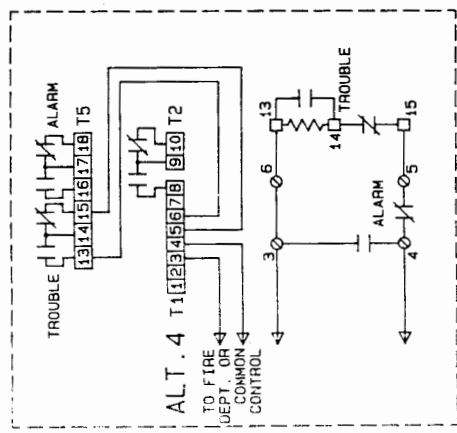
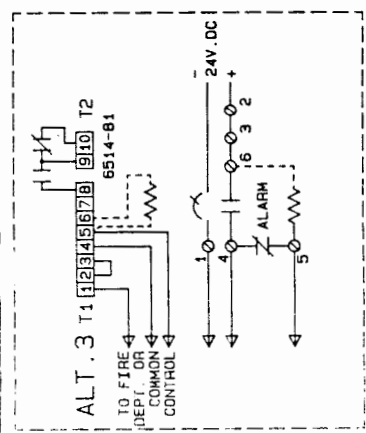
OPERATION

AN ALARM ON THE FIRE ALARM SYSTEM WILL CAUSE THE ALARM CONTACTS ON THIS MODULE TO OPERATE. THIS WILL SEND AN ALARM SIGNAL TO THE MUNICIPAL BOX, FIRE DEPT. OR REMOTE STATION.

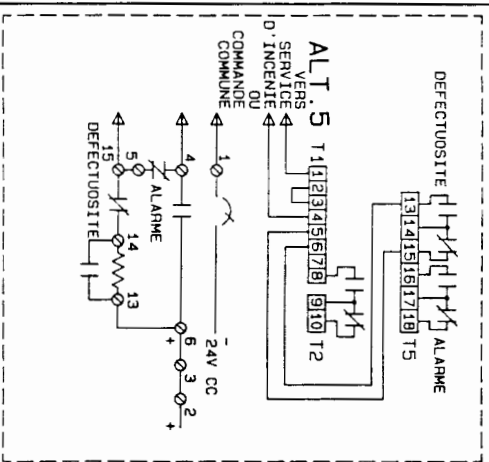
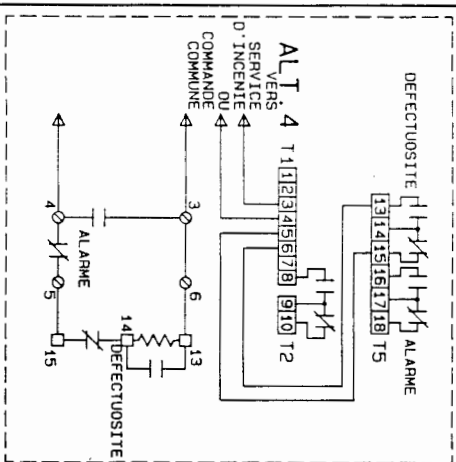
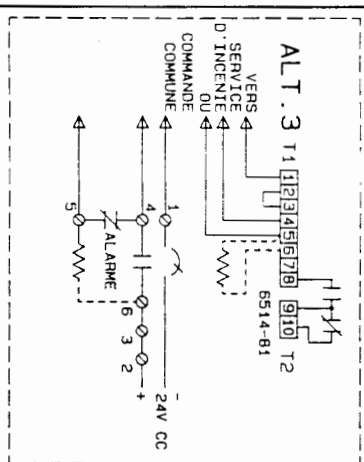
IF ALTERNATIVE #1 IS CONNECTED, THE REMOTE SYSTEM OPERATED RED L.E.D. WILL LIGHT WHEN THE MUNICIPAL BOX HAS OPERATED. WHEN THE FIRE ALARM SYSTEM IS BEING RESET, ALSO RESET THE MUNICIPAL BOX. THE REMOTE SYSTEM OPERATED RED L.E.D. WILL THEN EXTINGUISH.

A TROUBLE ON THE FIRE ALARM SYSTEM WILL CAUSE THE TROUBLE CONTACTS (ALTERNATIVES 2 AND 4) TO OPEN. THIS WILL SEND A TROUBLE SIGNAL TO THE FIRE DEPT. OR REMOTE STATION.

NOTE: ALL CONTACTS ARE SHOWN WITH THE SYSTEM IN THE NORMAL SUPERVISORY CONDITION (TROUBLE RELAY ENERGIZED).



ISS DATE		PAR PER		BY DI		APP	
1 08/28		AND					
FIRST ISSUE							
REMARKS							
REMARKS							
UNRELEASABLE TO THE PUBLIC							
EDWARDS							
TITLE							
CUSTOMER DWG. 6514-84							
REM. STATION CONN. - LOCAL							
ENERGY BOX TRIP/HOLD COILS							
TO: SAUF SPECIFIC CONTRAIRE		DECIMALES 1/100		EDRILLE		SCALE	
TO: UNLESS OTHERWISE SPECIFIED		1/100		1/100		1/100	
PAR	ANTON	BY	DATE	NOY	12 1987		
DES	APP	ON	DATE	FORMAT	C	6514-0084 E	
APP	APP	ON	DATE	FORMAT	C	6514-0084 E	
FINI		FINISH		MATERIEL		NO. DU DESTIN. DWG. NO.	
REF. DU NOM.		REF. DU FLAQUE		REF. DU LA PORTION.		FONCTION REF.	
ASSY REF.		MURINE REF.					
PROJ. NO.							
JOB NAME							



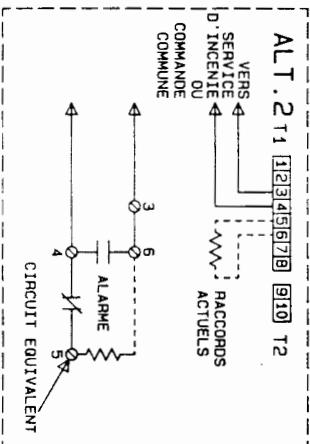
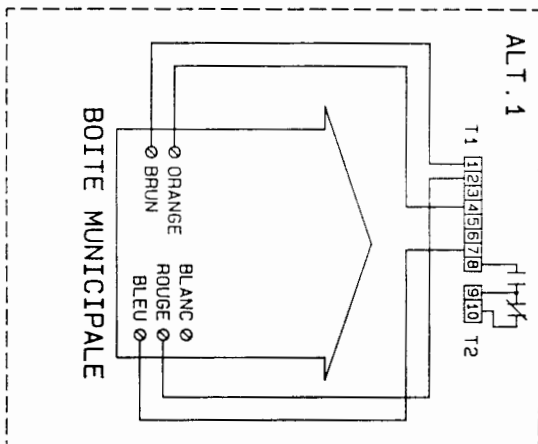
INSTALLATION

LE CLIENT DOIT DETERMINER LE TYPE DE RACCORDEMENT (OU ALTERNATIVE) EXIGE ET LA JAUGE DE FIL A UTILISER DU FABRICANT DE LA STATION ELOIGNEE OU DU SYSTEME MUNICIPAL.

ALTERNATIVE NO. 1
BRANCHER LES 4 FILS DE LA BOITE MUNICIPALE A BARRETTTE A CONNEXION T1 TEL QU'INDIQUE. LA RESISTANCE MAXIMUM DU CIRCUIT BOUCLE ENTRE LES BORNES NO. 1 ET 4 DOIT ETRE 50 OHMS.

ALTERNATIVES 2, 3, 4 ET 5
LA RESISTANCE DE FIN DE LIGNE EST UTILISEE SI NECESSAIRE POUR LES ALTERNATIVES 2, 3, 4 ET 5. LA VALEUR DE LA RESISTANCE DE FIN DE LIGNE POUR CHAQUE ALTERNATIVE DEPEND D'APPELILLAGE DU SERVICE MUNICIPAL OU DE STATION ELOIGNEE.

CONTACTS AUXILIAIRE D'ALARME
LES CONTACTS NON-ALIMENTES (BORNES NO. 8, NO. 9 ET NO. 10) SONT ETALONNES A 5A RESISTIFS ET A 3A INDUCTIFS A 24VCC ET 120VCA.



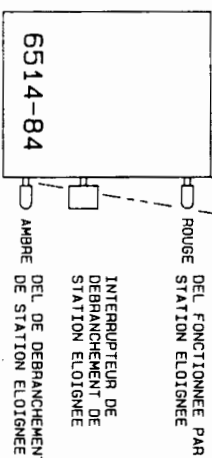
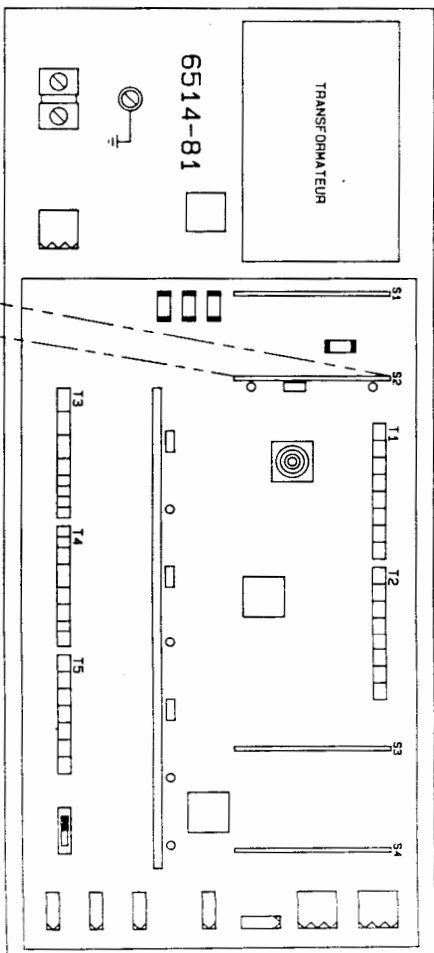
FONCTIONNEMENT

UNE ALARME DE SYSTEME D'ALARME INCENDIE FONCTIONNERA LES CONTACTS D'ALARME DE CE MODULE. CEI ENVERRA UN SIGNAL D'ALARME A LA BOITE MUNICIPALE, AU SERVICE MUNICIPAL OU A LA STATION ELOIGNEE.

SI L'ALTERNATIVE NO. 1 EST BRANCHEE, LA DEL ROUGE MISE EN FONCTIONNEMENT DU SYSTEME ELOIGNE S'ALLUMERA LORSQUE LA BOITE MUNICIPALE EST MANOEUVRE. SI LE SYSTEME D'ALARME INCENDIE SERA RE-ENCLENCHE, IL FAUT REENCLENCHE LA BOITE MUNICIPALE ALORS. LA DEL MISE FONCTIONNEMENT DU SYSTEME ELOIGNEE S'ETEINDRA.

UNE DEFECTUOSITE DANS LE SYSTEME D'ALARME INCENDIE FERA OUVRIR LES CONTACTS DE DEFECTUOSITE (ALTERNATIVES NO. 2 ET 4). CEI ENVERRA UN SIGNAL DE DEFECTUOSITE AU SERVICE MUNICIPAL OU A LA STATION ELOIGNEE.

REMARQUE: TOUS LES CONTACTS SONT MONITRES AVEC LE SYSTEME EN CONDITION DE SURVEILLANCE NORMALE (RELAIS DE DEFECTUOSITE ACTIONNE).



NO DU PROJET	REF. DU TRAVAIL	REF. DU TRAVAIL	REF. DU TRAVAIL	FINI	DATE	NO DU DESSIN

UNITE DE SERVICE SIGNAL
EDWARDS

TITRE
**DESSIN DU CLIENT 6514-84
BRANCHEMENT DE STATION
ELOIGNEE BOITE D'ALIMENTATION
LOCALE AVEC BORNES DE
DECLENCHEMENT / RETENUE**

NO. SAUF SPECIFIC CONTRAINDRE
1/2" - 5/8"
1/2" - 5/8" (MAXIUMS DIMENSIONS SPECIFIE)

DECIMALE 1/4 - 015
FRACTIONNE 1/2 - 1/2
DECIMALE 1/4 - 015

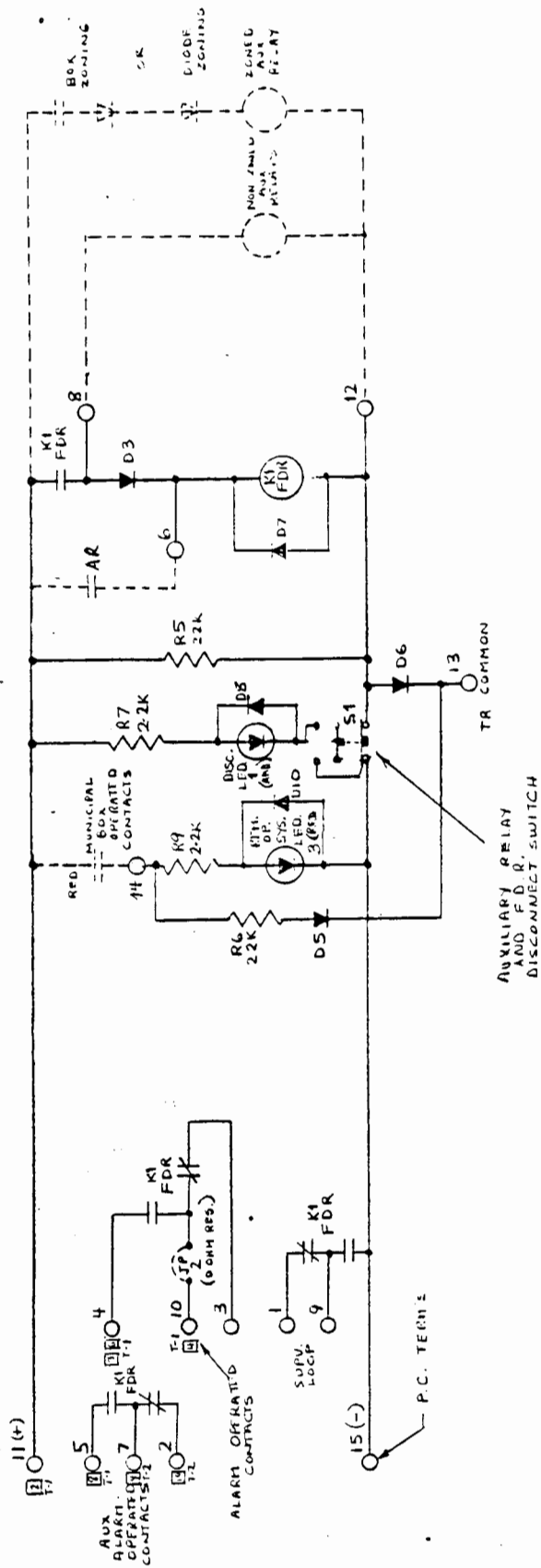
DATE (11) 29 1988

SCALE

6514-0084 F

102-1532
 no. de dessein des. no.

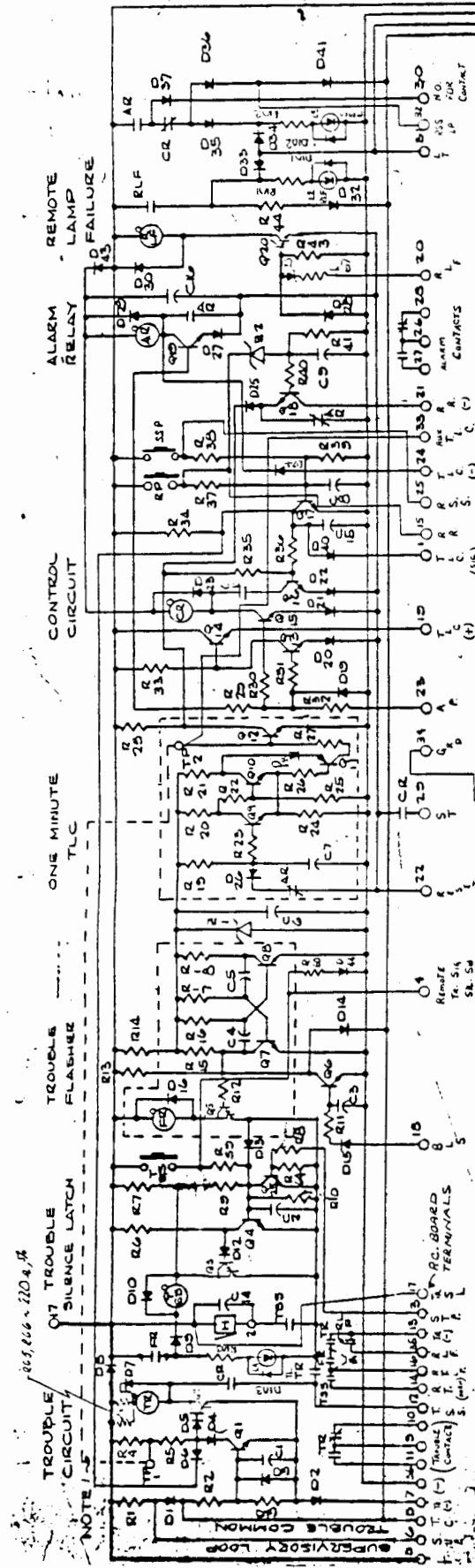
NOTE: UNLESS OTHERWISE STATED.
 1. ALL DIODES ARE IN4004
 2. ALL RESISTORS ARE 1/2 W.T.



AUXILIARY RELAY AND F.D.R. DISCONNECT SWITCH

nom. de job name	proj. no.	prop. no.	fin. finish	des. des. des.	no. des.
102-1532					
no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.
102-1532	102-1532	102-1532	102-1532	102-1532	102-1532
no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.
102-1532	102-1532	102-1532	102-1532	102-1532	102-1532
no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.	no. de dessein des. no.
102-1532	102-1532	102-1532	102-1532	102-1532	102-1532

102-1546
REV. 8-28-58
ENG. 48



- NOTES:**
- DUPLEX T1 & T2 TO INHIBIT ONE MINUTE T.L.C. A TROUBLE WILL BE INDICATED WHILE JUMPER IS IN PLACE.
 - ALL DIODES 1N-4004 UNLESS OTHERWISE NOTED.
 - ALL TRANSISTORS 2N3417 UNLESS OTHERWISE NOTED.
 - ALL RESISTORS 1/2 WATT 5% UNLESS OTHERWISE NOTED.

RESISTORS 5% 200.0Ω, 102, 103

R1, 8, 11, 13, 24, 38, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

DIODES
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

TRANSISTORS
Q1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

CAPACITORS
C1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

NOTE: 44-212-1705 IS IDENTICAL TO 44-212-1704 EXCEPT SIG. SIL. PUSH IS INST TO R ON FINAL ASSEMBLY OF 1705.

REV	BY	DATE	APP
1	EA	7/18/58	
2	EA	7/18/58	
3	EA	7/18/58	
4	EA	7/18/58	
5	EA	7/18/58	
6	EA	7/18/58	
7	EA	7/18/58	
8	EA	7/18/58	
9	EA	7/18/58	
10	EA	7/18/58	

EDWARDS
FOR THE
SHEPARD
44-212-1704 AND 44-212-1705
LONDON, ONTARIO, CANADA
1511-88/89

REVISED BY: B.S.C.
REVISIONS:
1. 7/18/58
2. 7/18/58
3. 7/18/58
4. 7/18/58
5. 7/18/58
6. 7/18/58
7. 7/18/58
8. 7/18/58
9. 7/18/58
10. 7/18/58

REV	BY	DATE	APP
1	EA	7/18/58	
2	EA	7/18/58	
3	EA	7/18/58	
4	EA	7/18/58	
5	EA	7/18/58	
6	EA	7/18/58	
7	EA	7/18/58	
8	EA	7/18/58	
9	EA	7/18/58	
10	EA	7/18/58	

102-1546
REV. 8-28-58
ENG. 48

FORMAT
B
SIZE
6514-0002 E
NO. DU DESSIN DNG. NO.

OPERATION

THE AUDIBLE SIGNAL TIME LIMIT CUTOFF PERIOD OF THIS MODULE IS 5 SECONDS TO 5 MINUTES AND IS FACTORY SET AT 5 MINUTES.

WHEN AN ALARM IS INITIATED, THE SIGNALS WILL SOUND UNTIL SILENCED BY ACTIVATION OF THE MANUAL SIGNAL SILENCE SWITCH OR AUTOMATICALLY BY THIS MODULE.

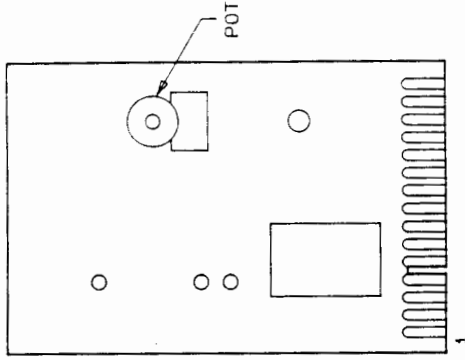
IF A SUBSEQUENT ALARM IS RECEIVED WHILE THE MODULE IS IN THE TIMING CYCLE, THE TIMING CYCLE WILL RESTART.

IF A SUBSEQUENT ALARM IS RECEIVED AFTER THE SIGNALS HAVE BEEN SILENCED, THE SIGNALS WILL RESOUND UNTIL SILENCED BY THE ACTIVATION OF THE MANUAL SIGNAL SILENCE SWITCH OR AUTOMATICALLY BY THIS MODULE.

ALTERNATE APPLICATIONS

THIS TIMER MAY BE USED FOR TIMING ADDITIONAL FUNCTIONS WHEN INSTALLED IN THE APPROPRIATE CONTROL EQUIPMENT.

THE TIMING PERIOD IS FACTORY SET AND SHOULD ONLY BE ADJUSTED BY A QUALIFIED FIRE ALARM SYSTEM SERVICE TECHNICIAN.



CAT. 6514-2 MODULE

NON DU PROJET JOB NAME		PROP. NO.		DATE NOV. 30/77		EGELLE		SCALE	
G.S. UNE FILIALE DE GENERAL SIGNAL A UNIT OF GENERAL SIGNAL		DESSIN DU REF. REF. DNG.		FINI FINISH		TOL. SAUF SPECIFIE CONTRAIRE +/- .001		TOL. UNLESS OTHERWISE SPECIFIED	
EDWARDS						DECIMALS +/- .015		DECIMALS +/- .015	
				PAR (B. H.)		BY VER		CH APP	
				TOL. SAUF SPECIFIE CONTRAIRE +/- .001		FRACTIONS +/- 1/32		FRACTIONS +/- .015	
				TITRE		DATE		SCALE	
				CUSTOMER DRAWING CAT. NO. 6514-2 AUDIBLE		NOV. 30/77		EGELLE	
				TITLE		NO. DU DESSIN		DNG. NO.	
				SIGNAL TIME LIMIT CUTOFF 5 SEC. TO 5 MIN.		6514-0002 E		5	
				FORMAT		SIZE		ISSUE	
				B					

FORMAT
8
NO. DU DESSIN 6514-0002 F
DWG. NO.

FONCTIONNEMENT

LA DUREE DE LAPS DE TEMPS DU MODULE DE LA SIGNALISATION SONORE EST ENTRE 5 SECONDES ET 5 MINUTES ET EST REGLEE A L'USINE A 5 MINUTES.

LORSQU'ON AMORCE UNE ALARME LES SIGNAUX SONNERONT JUSQU'A ETRE ARRETES SOIT PAR LE FONCTIONNEMENT DE L'INTERUPTEUR D'ARRET MANUEL DES SIGNAUX OU AUTOMATIQUE-
MENT A CAUSE DE CE MODULE.

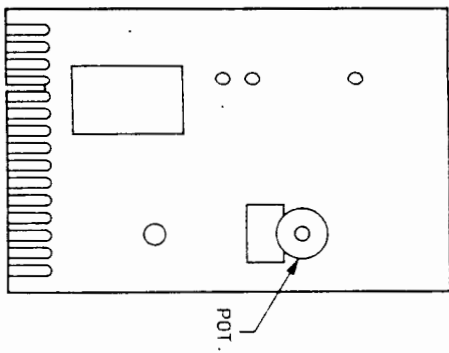
SI UNE ALARME SUBSEQUENTE EST RECU PENDANT LE CYCLE DU MODULE, LA MINUTERIE REPARTIRA.

SI UNE ALARME SUBSEQUENTE EST RECU APRES LES SIGNAUX ONT ETE ARRETES, LES SIGNAUX RETENTIRONT JUSQU'A ETRE ARRETES SOIT PAR LE FONCTIONNEMENT DE L'INTER-
RUPTEUR D'ARRET MANUEL OU AUTOMATIQUEMENT A CAUSE DE CE MODULE.

EMPLOI ALTERNATIF

CETTE MINUTERIE PEUT ETRE UTILISEE POUR LE MINUTAGE DES FONCTIONS SUPPLEMEN-
TAIRES SI INSEREE DANS L'EQUIPEMENT DE CONTROLE APPROPRIE.

LA DUREE DE LAPS DE TEMPS EST REGLEE A L'USINE ET DOIT ETRE MISE AU POINT
SEULEMENT PAR UN TECHNICIEN D'ENTRETIEN QUALIFIE POUR LES SYSTEMES
D'ALARME INCENDIE.



MODULE NO. DE CAT. 6514-2

NON DU PROJET		PROJ. NO.		TITRE		DESSIN DU CL. NO. DE CAT. 6514-2 MINUTERIE		DATE		EGELLE		SCALE	
JOB NAME				TITLE		REGL. DE 5 SEC. A 5 MIN. POUR SIGN. SONORE		NOV. 30/77				5	
UNE FILIALE DE GENERAL SIGNAL A UNIT OF GENERAL SIGNAL				DESIGN DU REF.		PAR (B. H.) BY		CH		APP		FORMAT	
EDWARDS				REF. DWG.		VER		OH		APR		8	
				FINISH		MATERIAL		DECIMALS		FRACTIONS		NO. DU DESSIN	
				MATERIAL		UNLESS OTHERWISE SPECIFIED		DECIMALS		FRACTIONS		DWG. NO.	
								+/- .015		+/- 1/32		6514-0002 F	
								+/- .015		+/- 1/32		5	
								+/- .015		+/- 1/32		ISSUE	

FORM 1
B
 SIZE

6525-0004E
 NO. DU. DESIGN Dwg. NO.

INSTALLATION

FOUR RELAYS ARE PROVIDED ON EACH CAT. NO. 6525-4 RELAY PANEL FOR THE CONTROL OF ANCILLARY DEVICES. EACH RELAY PROVIDES A ONE "C" DRY CONTACT RATED FOR 5 AMP. RESISTIVE AT 120V. A.C. OR 28V. D.C. WIRE GAUGE AND FUSING TO BE DETERMINED BY THE CUSTOMER DEPENDING ON THE APPLICATION.

NOTE: ANCILLARY DEVICES SHOULD BE CONNECTED SO THAT AN OPEN, SHORT OR GROUND FAULT IN THE FIELD WIRING WILL NOT AFFECT THE OPERATION OF THE FIRE ALARM SYSTEM (ULC S524).

IDENTIFICATION OF ANCILLARY RELAY OPERATION

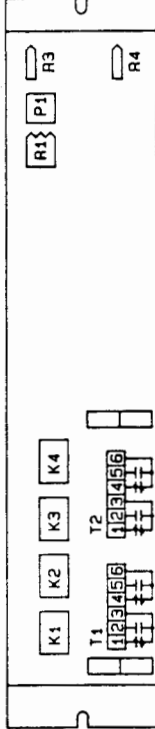
ANCILLARY RELAY PANELS SUPPLIED, MAY BE INSTALLED IN ONE OR MORE OF THE FOLLOWING COMBINATIONS.

- A) COMMON OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW THE COMMON CONTROL PANEL, THE ANCILLARY RELAYS ON THIS STRIP PANEL WILL OPERATE WHENEVER AN ALARM IS RECEIVED ON ANY ALARM RECEIVING CIRCUIT.
- B) INDIVIDUAL OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW EACH ALARM RECEIVING STRIP PANEL (6501 OR 6501-800), THEN EACH ANCILLARY RELAY IS INTERNALLY CONNECTED TO THE ALARM RECEIVING CIRCUIT DIRECTLY ABOVE IT ONLY; E.G. OPERATION OF ALARM RECEIVING CIRCUIT #1 WILL ENERGIZE ANCILLARY RELAY #1 ONLY, CIRCUIT #2 WILL ENERGIZE ANCILLARY RELAY #2 ONLY, ETC.
- C) ZONED OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW THE PROGRAMMING PANEL (CAT. NO. 6522), THEN EACH RELAY MAY BE ZONED TO CERTAIN ALARM RECEIVING CIRCUITS; E.G. OPERATION OF ALARM RECEIVING CIRCUIT #1 MAY ENERGIZE ANCILLARY RELAYS #1, #3 AND #6. NOTE: SEE PROGRAMMING PANEL DRAWING FOR EXACT ZONING OF ANCILLARY RELAYS FOR THIS JOB.
- D) DISCONNECT
 IF A FIRE DEPARTMENT MODULE IS INCLUDED WITH THE SYSTEM, THEN ALL RELAYS WILL BE DISCONNECTED FROM ALARM OPERATION WHEN IN THE BY-PASS MODE.

DEAD FRONT PLATE



CAT. NO. 6525-4 STRIP PANEL



M.F.

NOV DU. PROJECT JOB NAME	PREP. NO.	TITLE CUST. DWG. CAT. NO. 6525-4, 4 "1C" RELAY PNL.	DATE AUG. 06 1987	SCALE ----
FORM 1 B SIZE	NO. DU. DESIGN Dwg. NO.	EDITION 1	ISSUE	
NO. DU. PROJECT JOB NAME	DESIGN DU. REF. REF. Dwg.	FORM 1 B SIZE	NO. DU. DESIGN Dwg. NO.	EDITION 1
NO. DU. PROJECT JOB NAME	DESIGN DU. REF. REF. Dwg.	FORM 1 B SIZE	NO. DU. DESIGN Dwg. NO.	EDITION 1
NO. DU. PROJECT JOB NAME	DESIGN DU. REF. REF. Dwg.	FORM 1 B SIZE	NO. DU. DESIGN Dwg. NO.	EDITION 1
NO. DU. PROJECT JOB NAME	DESIGN DU. REF. REF. Dwg.	FORM 1 B SIZE	NO. DU. DESIGN Dwg. NO.	EDITION 1

USE RELAYS OR MODULES EXCEPT
 A UNIT OF ORIGINAL SIGNAL

EDWARDS

INSTALLATION

ILS ONT PREVUS QUATRE RELAIS A CHAQUE PANNEAU DE RELAIS NO. DE CAT. 6525-4 AFIN DE CONTROLER DES DISPOSITIFS ANCILLAIRE. CHAQUE RELAIS DONNE UN CONTACT NON-ALIMENTE. DE FORME "C" ET ALLONE A 5 A. RESISTIF A 120 V.CA. OU 28 V.CC.. LE JAUGE DE FIL ET LES FUSIBLES DOIVENT ETRE DETERMINES DU CLIENT SUIVANT L'APPLICATION.

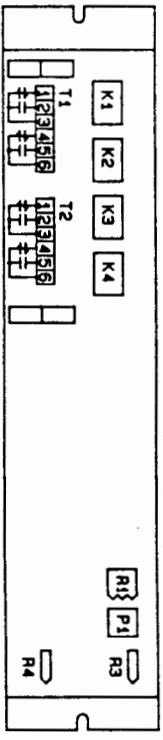
REMARQUE: LES DISPOSITIFS ANCILLAIRE DOIVENT ETRE BRANCHES TELS QU'UNE OUVERTURE, COURT-CIRCUIT OU MISE A LA TERRE DU CABLAGE N'ONT AUCUNE ACTION SUR LE FONCTIONNEMENT DU SYSTEME D'ALARME INCENDIE (SELON ULC 5524).

FONCTIONNEMENT DES RELAIS ANCILLAIRES

LES PANNEAUX DE RELAIS ANCILLAIRES FOURNIS PEUVENT ETRE BRANCHES SELON UNE OU PLUSIEURS DE COMBINAISONS SUIVANTES:

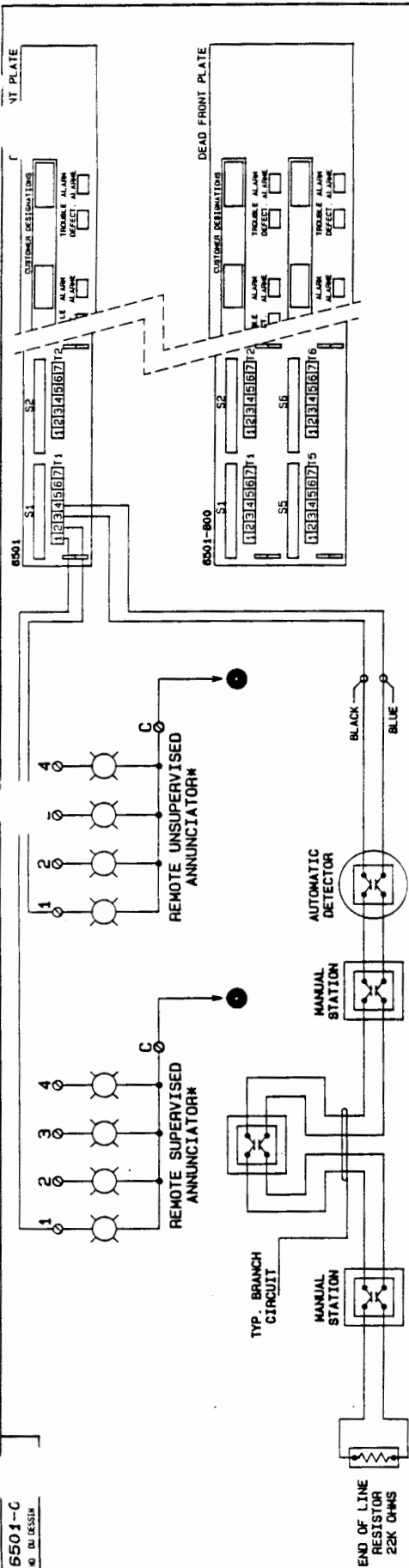
- A) FONCTIONNEMENT COMMUN:
 LORSQUE CE PANNEAU EST PLACE SOUS LE PANNEAU DE COMMANDE COMMUN, LES RELAIS ANCILLAIRES FONCTIONNERONT CHAQUE FOIS UNE ALARME EST RECUE DE N'IMPORTE QUEL CIRCUIT DE RECEPTION D'ALARME.
- B) FONCTIONNEMENT INDIVIDUEL:
 LORSQUE CE PANNEAU EST PLACE SOUS DES PANNEAUX DE RECEPTION D'ALARME INDIVIDUELS (6501 OU 6501-900), LE RELAIS ANCILLAIRE EST BRANCHE DIRECTEMENT A L'INTERIEUR AU CIRCUIT DE RECEPTION D'ALARME LUI-MEME SITUÉ AU-DESSUS. PAR EXEMPLE, LE FONCTIONNEMENT DE CIRCUIT DE RECEPTION D'ALARME NO. 1 SEULEMENT EXCITERA RELAIS ANCILLAIRE SEULEMENT. LE CIRCUIT NO. 2 EXCITERA RELAIS ANCILLAIRE NO. 2 SEULEMENT, ETC...
- C) FONCTIONNEMENT ZONE:
 LORSQUE CE PANNEAU EST PLACE SOUS LE PANNEAU DE PROGRAMMATION (6522), CHAQUE RELAIS PEUT ETRE BRANCHE AUX CIRCUITS D'ALARME QUELCONQUE. PAR EXEMPLE, FONCTIONNEMENT DE CIRCUIT DE RECEPTION D'ALARME NO. 1 PEUT EXCITER LES RELAIS NO. 1, NO. 3 ET NO. 6. REMARQUE: VOIR DESSIN DE PANNEAU DE PROGRAMMATION POUR LA DISTRIBUTION EXACTEMENT DES RELAIS ANCILLAIRES.
- D) DEBRANCHEMENT:
 LORSQU'IL SE TROUVE UN MODULE DE BRANCHEMENT A SERVICE DES POMPIERS DANS LE SYSTEME, TOUS LES RELAIS ANCILLAIRES SERONT DEBRANCHES DU FONCTIONNEMENT D'ALARME SI LE MODULE DE BRANCHEMENT A SERVICE DES POMPIERS EST DANS LE MODE D'EVITEMENT.
- E) EVITEMENT:
 METTRE UN INTERRUPTEUR D'EVITEMENT EN POSITION "EVITEMENT" DEBRANCHERA LE RELAIS INDIVIDUEL. ILLUMINERA LA D.E.L. D'EVITEMENT CORRESPONDANTE ET COMMENCERA LA SEQUENCE DE DEFECTUOSITE COMMUNE.

PLAQUE AVANT ISOLEE



PANNEAU NO. DE CAT. 6525-4

NON DU PROJET		PROJ. NO.		TITRE		DESSIN DU CLIENT NO. DE CAT. 6525-0004		PANNNEAU AVEC 4 RELAIS "1C"		DATE		MAY 24 1988		EPOQUE		EDITION																					
JOB NAME		DWG. NO.		FINI		PAI		ANTON		BT		VBI		CH		APP		DECIMALE (1/10)		FRACTIONS (1/16)		DLS		FORMAT		B		6525-0004 F		NO. DU DESSIN		DWG. NO.		1		1988	
INSTRUMENTS DE MESURE UTILISES A L'EGALITE DE PRECISION		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	
EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS	



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-2) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 AND #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF UL-C-5524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE		LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE	
AWG.	FEET	METERS	
14	10,000	3050	
16	6,000	1830	
18	3,925	1197	
19	3,100	946	
20	2,450	747	
21	1,950	595	
22	1,550	473	

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES AS SHOWN ABOVE.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-2 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG-IN MODULES WITH COMPONENT SIDE FACING DOWN.

5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
- II) ALARM LAMPS ON THIS PANEL
- III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR*

OPERATION OF AN INITIATING DEVICE WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT. THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL, PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	74-10	75-12
6517-5	12	12

ISS	REVISED	REMARKS
DES	DATE	BY
APP	DATE	BY
CHK	DATE	BY
REV	DATE	BY
APP	DATE	BY

USE ONLY IN CONNECTION WITH A UNIT OF SIGNAL SERVICE

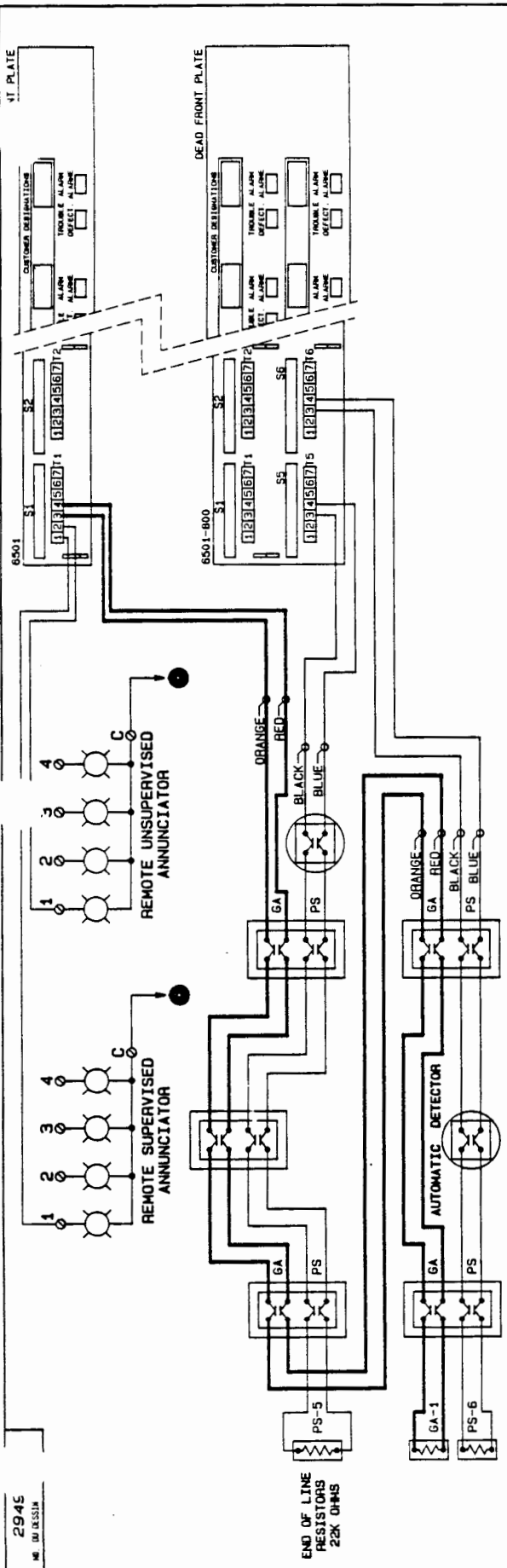
EDWARDS

TITLE TITLE
CUSTOMER DRAWING
CAT. NO. 6501-0002
ALARM RECEIVING MODULE
CLASS B C/W ZONE TR. LIGHT

TOL. UNLESS OTHERWISE SPECIFIED
DECIMALS 1/16
FRACTIONS 1/32
DIMENSIONS 1/16
DIMENSIONS 1/16

SCALE
FORM 1
FORM 1
FORM 1

NO. IN DESIGN
6501-0002E
DWG. NO.



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-2) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E. G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-S524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET METERS
14	10,000 3050
16	6,000 1830
18	3,925 1197
19	3,100 946
20	2,450 747
21	1,950 595
22	1,550 473

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-2 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:
 I) WIRING TO INITIATING DEVICES
 II) ALARM LAMPS ON THIS PANEL
 III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR
 OPERATION OF P. S. INITIATING DEVICE (FIRST STAGE) OR A G. A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT, THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL. PER CHART, OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

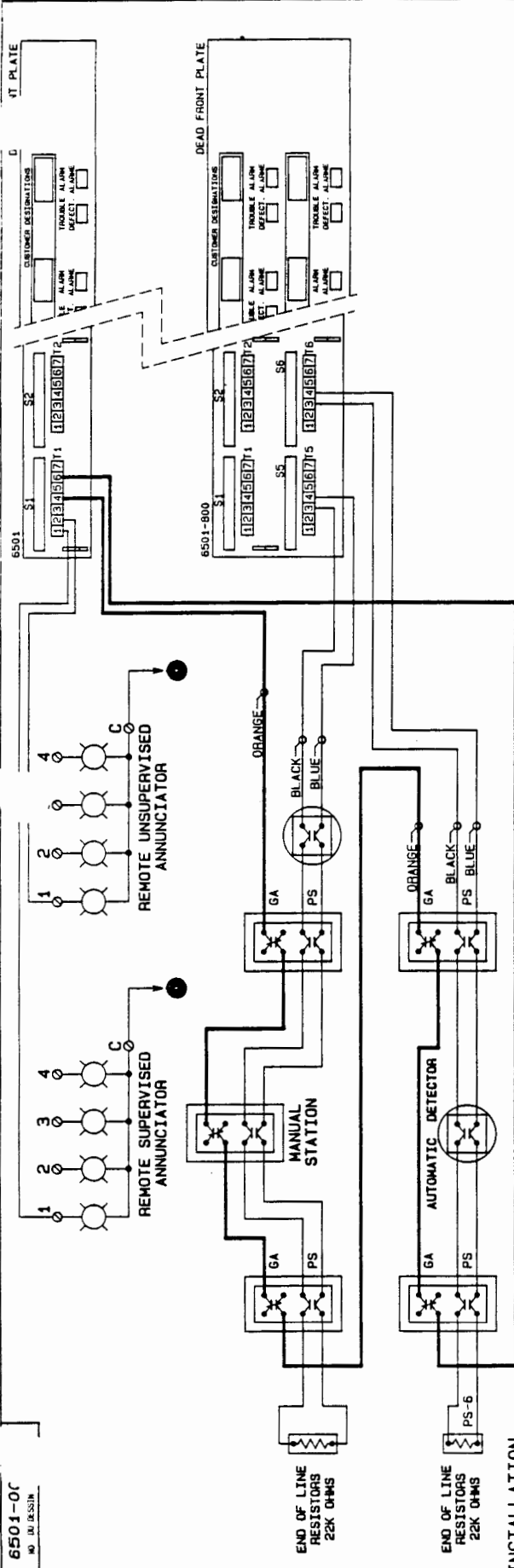
CHART

PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

REV. NO.	DATE	BY	CHK	APP.	FORMAT	NO. OF ISSUES	DATE
1	10/27/87	APP	CH	C		29492E	

ONE TABLE OF WORKING SYMBOLS
EDWARDS
 TITLE
CUST. DWG. 6501-0002
ALARM RECEIVING MODULE
CLASS B C/W ZONE TR. LIGHT
TWO STAGE SYSTEMS

TOL. UNLESS OTHERWISE SPECIFIED
 DECIMALS 1/16
 DECIMALS 1/32
 DECIMALS 1/64



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-23) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET METERS
14	10,000 3050
16	6,000 1830
18	3,925 1197
19	3,100 946
20	2,450 747
21	1,950 595
22	1,550 473

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES.

3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-23 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.

5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
- II) ALARM LAMPS ON THIS PANEL
- III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR

OPERATION OF P.S. INITIATING DEVICE (FIRST STAGE) OR A G.A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS. THIS PANEL AND ON THE REMOTE ANNUNCIATORS WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT, THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #3) AND THE COMMON CONTROL PANEL, PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

REV.	DATE	BY	CHK.	APP.	REVISIONS
5	2/2/72	AND			REVISED - CAT NO. CREATED
1					REVISIONS

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

THE TITLE
EDWARDS
CUST. DMG. CAT. 6501-0023
NORMALLY CLOSED GEN. ALARM RECEIVING MODULE
TWO STAGE SYSTEM

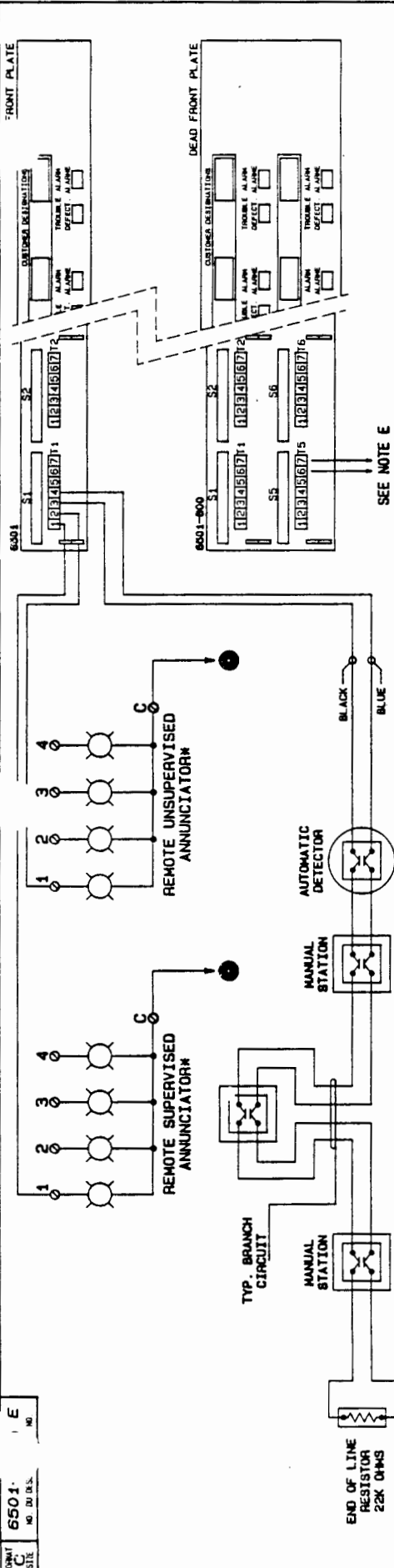
REV.	DATE	BY	CHK.	APP.	REVISIONS
1					

FORM 1 REV. 11/68	NO. DU. 00331N	FORM 1 REV. 11/68	NO. DU. 00331N	SCALE
6501-0023	E			

REF. TO PREP. NO.	REF. TO FINISH MATERIAL

REF. TO PREP. NO.	REF. TO FINISH MATERIAL

FORM 1
6501
NO. 00 005.
REV. 1 E



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-24) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 AND #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF UL-C-5524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE	
	FEET	METERS
14	10,000	3050
16	6,000	1830
18	3,825	1197
19	3,100	946
20	2,450	747
21	1,950	595
22	1,550	473

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES AS SHOWN ABOVE.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-24 MODULES MAY BE INTERCONNECTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTING CHART. PLUG-IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:
 I) WIRING TO INITIATING DEVICES
 II) ALARM LAMPS ON THIS PANEL
 III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR*

OPERATION OF AN INITIATING DEVICE WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT. THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

CHART

PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

E) ANCILLARY ALARM CONTACTS

THIS MODULE HAS ONE N/O CONTACT. IT IS ACCESSIBLE ON PINS 6 & 7 OF THE 6501 OR 6501-800. CONTACT RATING 0.2 AMPS AT 24V DC ONLY.

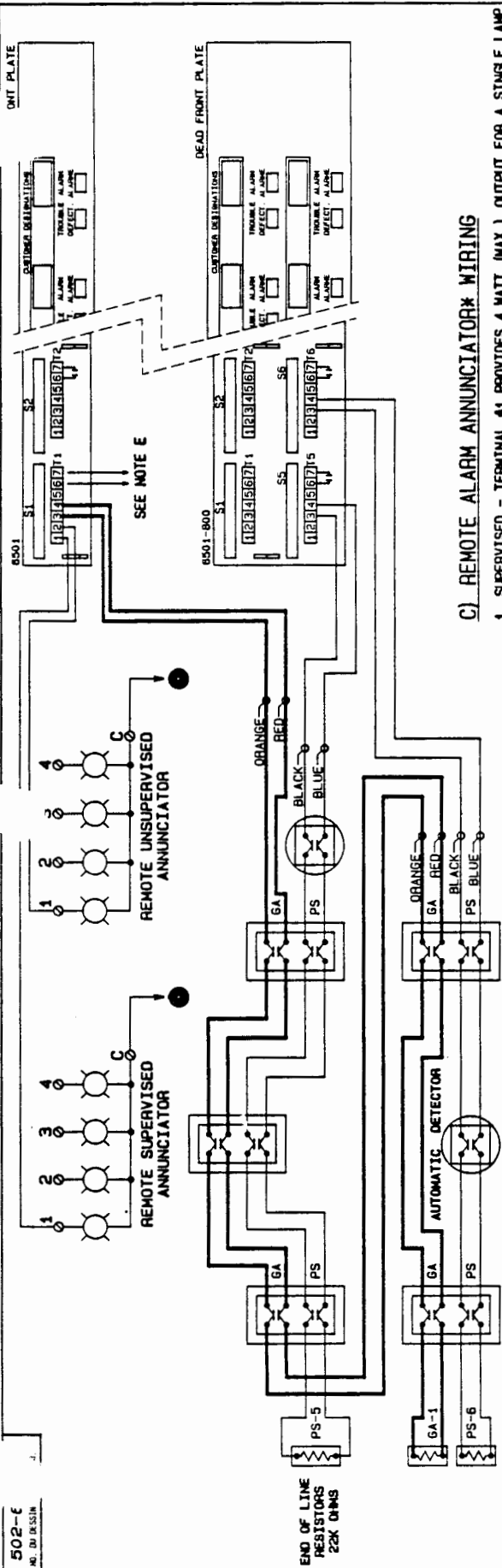
REVISED	REMARKS
4 18/87	REVISED
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ISS DATE	BY CH
ISS DATE	BY CH

UN-FILL IN MANUAL SIGNAL
 2 LAMP OF ORIGINAL SIGNAL
EDWARDS
 TITLE TITLE
CUST. DWG. 6501-0024 ALARM RECEIVING MOD. CLASS "B" C/W ZONE TR. LIGHT AND 1C ALARM CONTACT

FORM NO.	REV.	DATE	BY	CHK.	APP.	SCALE
6501-0024	E	1974	EDWELLE			

FORM NO.	REV.	DATE	BY	CHK.	APP.	SCALE
6501-0024	E	1974	EDWELLE			

FORM NO.	REV.	DATE	BY	CHK.	APP.	SCALE
6501-0024	E	1974	EDWELLE			



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-24) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-24 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-S524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET METERS
14	10,000 3050
16	6,000 1830
18	3,925 1197
19	3,100 946
20	2,450 747
21	1,950 595
22	1,550 473

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT.NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES AS SHOWN ABOVE.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
 - II) ALARM LAMPS ON THIS PANEL
 - III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR
- OPERATION OF P.S. INITIATING DEVICE (FIRST STAGE) OR A G.A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT. THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

OPTIONAL

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

E) ANCILLARY ALARM CONTACTS

THIS MODULE HAS ONE N/O CONTACT. IT IS ACCESSIBLE ON PINS 6 & 7 OF THE 6501 OR 6501-800. CONTACT RATING 0.2 AMPS AT 24V DC ONLY.

CHART

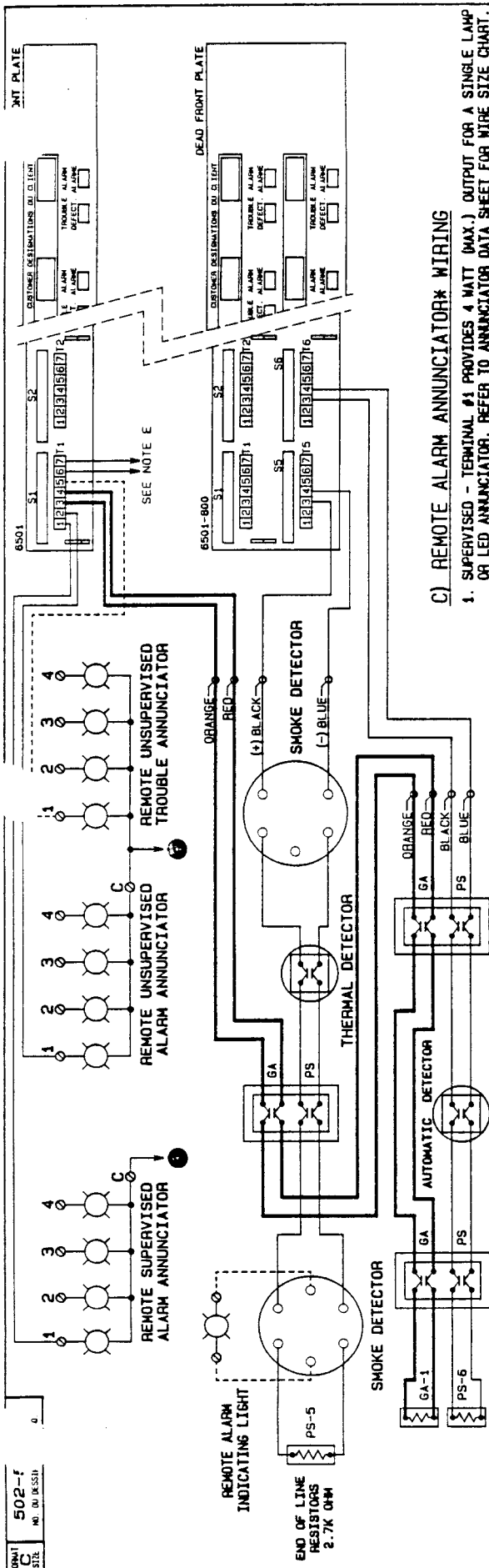
PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

REV. 38/87	REVISED - CU ENG CREATED
ISS DATE	PAR VER
BY	CHK
APP	APP
REMARKS	
UNIVERSAL IS SOCIAL SIGNAL	
EDWARDS	
TITLE	
CUST. DMG. 6501-0024 ALARM RECEIVING MOD. CLASS 'B' C/W ZONE TR. LIGHT & 1C ALARM CONT. - 2 STAGE SYS.	
TEL. SUP SPECIFIC CONTINUE	REVISIONS 1/2-015
TEL. UNLESS OTHERWISE SPECIFIED	DETAILS 1/2-015
PAR. B.N.J. BY	DATE OCT. 10 1975
VER. 1/1	FORM C
NO. 10 00 00 00 00	502-620 E
NO. 10 00 00 00 00	DMG. NO.

UNIT 502-f
NO. DU. I.R.S.S.I.A
SIZE



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-25) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF U.L.C.-824 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET
	METERS
14	10,000
16	6,000
18	3,925
19	3,100
20	2,450
21	1,950
22	1,550
	473

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPEMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES AS SHOWN ABOVE.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-25 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
- II) ALARM LAMPS ON THIS PANEL
- III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATORS

OPERATION OF P.S. INITIATING DEVICE (FIRST STAGE) OR A G.A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT. THIS TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

E) ANCILLARY ALARM CONTACTS

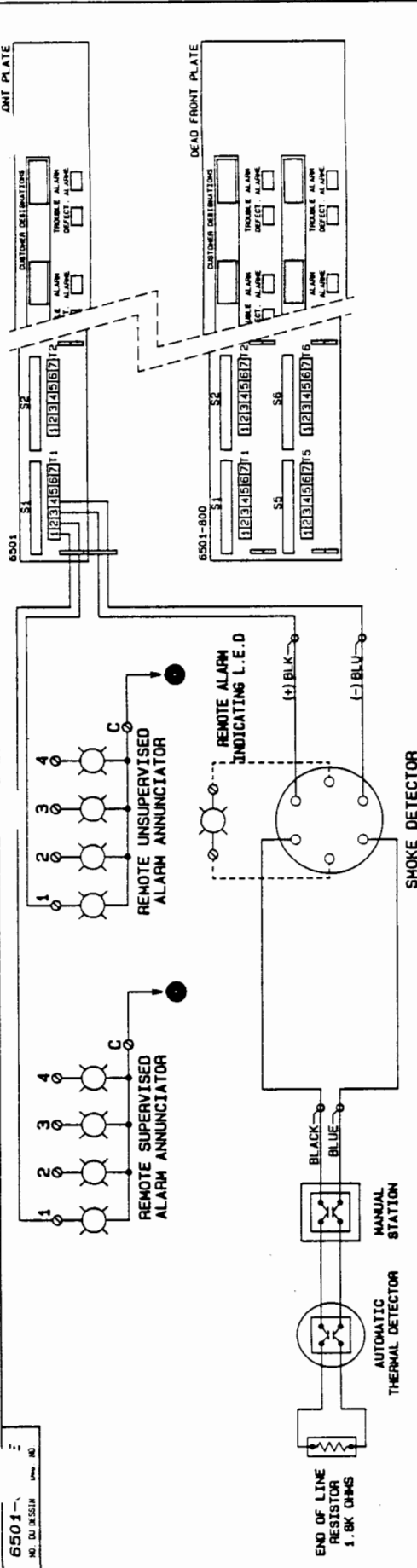
THIS MODULE HAS ONE N.O. ALARM CONTACT. IT IS ACCESSIBLE ON PINS 6 & 7 OF THE 6501 OR 6501-800. CONTACT RATING 0.2 A. AT 24V.DC ONLY.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

REVISED - CAD DWG CREATED	DATE	BY	REVISIONS
REVISED - CAD DWG CREATED			
ISS DATE	PARTNER APP	REMARKS	
NO. FILE IN DRAWING			
EDWARDS			
TITLE			
CUST. DWG. 6501-0025 ALARM RECEIVING MOD. CLASS "B" C/W ZONE TR. LIGHT TWO STAGE SYSTEMS			
NO. SALES SPECIFIC CONTINUE			
DECIMAL	1/100	SCALE	1/16
FRACTIONS	1/8		
DECIMALS	1/10		
NO. DU. I.R.S.S.I.A	NO. DU. I.R.S.S.I.A	DWG NO.	502-519 E
APP	CHK	DATE	SCALE
VER	APP	DATE	SCALE
FINISH	MATERIAL		
REF. TO FILE	REF. TO PERFORM	FINISH	
WIRING REF.	PANELING REF.		

FORM 1
C
6501-
NO. DU BLESSIN
REV. 11/72



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-42) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) ALARM RECEIVING CIRCUIT WIRING

- THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 AND #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-S524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET
14	10,000
16	6,000
18	3,925
19	3,400
20	2,450
21	1,950
22	1,550

- THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES.

- THIS MODULE IS DESIGNED TO OPERATE WITH EDWARDS' LISTED SMOKE DETECTORS OR THE CONTROL MANUFACTURER'S APPROVED EQUIVALENT. REFER TO INDIVIDUAL DEVICE DRAWING FOR APPLICATION DATA.

- ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO PANEL.
- AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-42 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
- VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
- II) ALARM LAMPS ON THIS PANEL
- III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATORS

OPERATION OF AN INITIATING DEVICE WILL CAUSE AN ALARM TO LOCK ON. IF THE COMBUSTION DETECTOR HAS OPERATED, THE RED ALARM LAMP ON THE BASE WILL LIGHT. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS WILL LIGHT. THE COMBUSTION DETECTOR HEAD MUST BE FREE FROM SMOKE BEFORE IT MAY BE RESET AND RESET PUSH-BUTTON MUST BE HELD IN FOR 3 SECONDS MINIMUM. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT, THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

C. REMOTE ALARM ANNUNCIATOR* WIRING

- SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
- UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
- IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL. PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D. CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

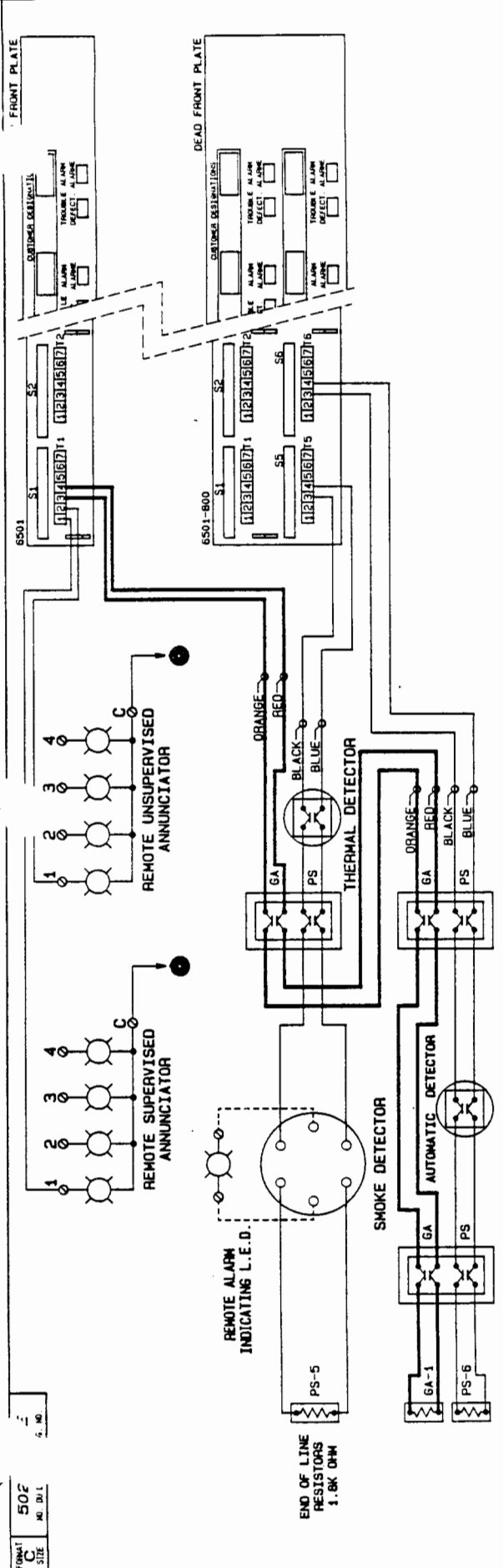
DATE	BY	REVISIONS
12 18/82	1	REVISED
ISS DATE	BY	REVISIONS
DATE	BY	DI

TIME TITLE
EDWARDS
CUSTOMER DRAWING
CAT. NO. 6501-0042
CLASS B C/W ZONE TR. LIGHT

NO.	APP.	DATE	SCALE
5501-0042E			

* OPTIONAL

REF. TO WIRING	REF. TO PANEL	REF. TO ILLUSTRATION	REF. TO ELECTRICAL SYMBOLS
REF. TO WIRING	REF. TO PANEL	REF. TO ILLUSTRATION	REF. TO ELECTRICAL SYMBOLS



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-42) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT ALARM RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF ALARM INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-42 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

A) ALARM RECEIVING CIRCUIT WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-S524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET
14	10,000
16	6,000
18	3,925
19	3,100
20	2,450
21	1,950
22	1,550

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES AS SHOWN ABOVE.
3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:
 I) WIRING TO INITIATING DEVICES
 II) ALARM LAMPS ON THIS PANEL
 III) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR*

OPERATION OF P. S. INITIATING DEVICE (FIRST STAGE) OR A G. A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT, THUS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THUS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL. PER CHART, OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

ISS	DATE	BY	CHK	REVISIONS
15	07/14/03	JM	✓	REVISED - CAD DRG. CREATED
16	08/27/03	MM	✓	REVISIONS

THE OFFICE OF MARINE SIGNAL
A BRANCH OF THE CANADIAN NAVY

EDWARDS

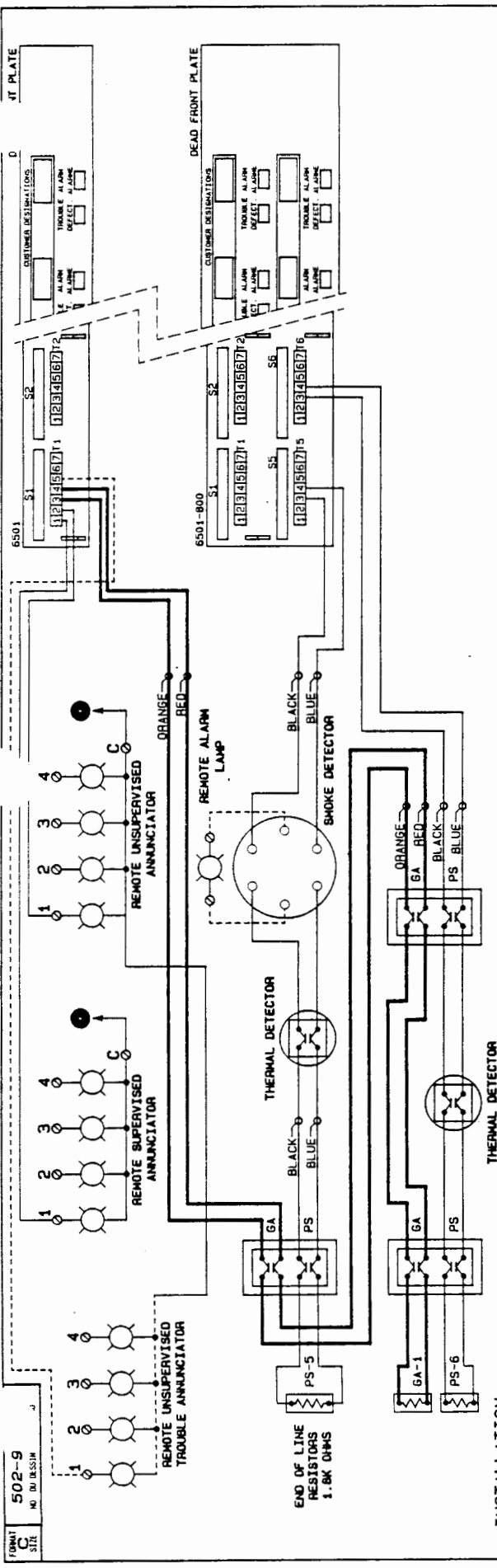
TITLE
CUST. DWG 6501-0042
COMBUSTION DETECT. ALARM
RECEIVING MODULE
TWO STAGE SYSTEMS

TEL. SAFE SPECIFIC CONTINUE
 1/ - 015
 1/ - 006
 1/ - 015
 1/ - 012
 1/ - 012

SCALE
 1/ - 015
 1/ - 012
 1/ - 012

PAR. M/H BY DATE DEC 15 1995
 APP. M. J. J. SKELLEN

NO. 502-901 E
 NO. 00 DESIGN. DRG. NO.



INSTALLATION

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF U.C-5524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

2. THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES.

3. ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

A) ALARM RECEIVING CIRCUIT WIRING

- THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 & #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF U.C-5524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.
- THE ALARM RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES IN PARALLEL AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING CIRCUITS REQUIRE 4 WIRES.
- ALL ALARM RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.

4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-43 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTION CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.

5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL ALARM INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF. THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- WIRING TO INITIATING DEVICES
- ALARM LAMPS ON THIS PANEL
- WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR

OPERATION OF P.S. INITIATING DEVICE (FIRST STAGE) OR A 6-A. KEYSWITCH (EVACUATION) WILL CAUSE AN ALARM TO LOCK ON. THE CORRESPONDING ALARM INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS* WILL LIGHT. A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. IN ADDITION, AN OPEN IN POINTS I AND II ABOVE WILL CAUSE THE CORRESPONDING TROUBLE LAMP ON THIS PANEL TO LIGHT, THIS INDICATING THE LOCATION OF THE FAULT. THE TROUBLE INDICATION WILL BE SUPPRESSED DURING AN ALARM CONDITION, THIS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ALARM ANNUNCIATOR* WIRING

- SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
- UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
- IF A REMOTE SUPERVISED ALARM ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH ALARM RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR ALARM RECEIVING CIRCUIT, THEN A DUMMY LOAD (660 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT ALARM RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL, PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

D) CUSTOMER DESIGNATION

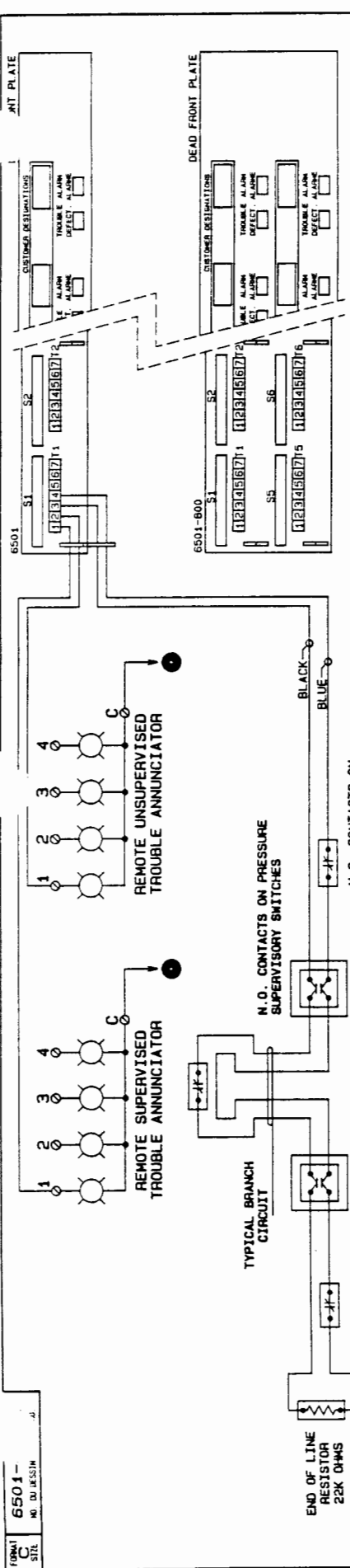
CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED ANN. TERM.	UNSUPERVISED ANN. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	12
6517-5	12	12

REV. NO.	REV. DATE	REV. BY	REV. DATE	REV. BY
6	2/2/72	WJ		
ISS DATE	PAR VER	CH	BY	BY
REVISIONS - CO. ENG. DRAFTED				
REMARKS				
UNAVAILABLE IN MANUAL SIGNAL				
EDWARDS				
TITLE				
CUST. DWG. 6501-0043				
COMB. DET. ALARM REC. MOD.				
CLASS B C/W ZONE TR. LIGHT				
OPT. REM. TR. LP-2 STAGE SYST.				
TOL. UNLESS SPECIFIED OTHERWISE	DECIMALS 1/100	SCALE		
TOL. UNLESS OTHERWISE SPECIFIED	DECIMALS 1/100	SCALE		
PAR. #	BY	DATE	APPROVED	SCALE
		MAY 11 1968		502-916 E
VER.	CHK.	APP.	FORM	NO. OF REVISIONS
			C	NO. OF SHEETS
APP.	CHK.	APP.	STL.	DWG. NO.

FORM C
6501-
SIZ. NO. DU. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-58) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETED. THIS PANEL HAS PROVISION FOR FOUR OR EIGHT SUPERVISORY ALERT RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) SUPERV. ALERT RECEIVING CCT. WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 AND #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF ULC-524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE
ANG.	FEET METERS
14	10,000 3050
16	6,000 1830
18	3,925 1197
19	3,100 946
20	2,450 747
21	1,950 595
22	1,550 473

2. THE SUPERVISORY ALERT RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING DEVICES REQUIRE 4 WIRES AS SHOWN ABOVE.

3. ALL SUPERVISORY ALERT RECEIVING CIRCUIT WIRES MUST BE FREE FROM GROUNDS, OPENS AND SHORTS. TEST EACH CIRCUIT WIRING WITH A METER BEFORE CONNECTING TO THE PANEL.
4. AFTER ALL INSTALLATION WIRING TO THE FIRE ALARM PANEL HAS BEEN COMPLETED, THE CABLE CLAMPS MAY BE FASTENED AND THE 6501-58 MODULES MAY BE INSERTED INTO THE SOCKETS AS DETAILED IN THE INTERCONNECTING CHART. PLUG IN MODULES WITH COMPONENT SIDE FACING DOWN.
5. VACANCY MODULE PP 46213-0050 WILL BE INSTALLED IN ANY UNUSED SOCKET.

B) OPERATION

THE INDIVIDUAL INDICATING LAMPS ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS ARE NORMALLY OFF.

THE FOLLOWING ITEMS ARE SUPERVISED BY THIS PANEL:

- I) WIRING TO INITIATING DEVICES
- II) WIRING AND LAMPS TO SUPERVISED ANNUNCIATOR

OPERATION OF A NORMALLY OPEN OR NORMALLY CLOSED INITIATING DEVICE WILL CAUSE THE COMMON TROUBLE SEQUENCE TO BE INITIATED FOR THE DURATION OF THE FAULT. THE CORRESPONDING TROUBLE INDICATING LAMP ON THIS PANEL AND ON THE REMOTE ANNUNCIATORS WILL LIGHT.

A FAULT ON ANY OF THE ITEMS SUPERVISED BY THIS PANEL WILL CAUSE A COMMON TROUBLE SIGNAL. THE COMMON TROUBLE SIGNAL WILL BE SUPPRESSED DURING AN ALARM CONDITION, THUS BRINGING FULL ATTENTION TO THE ALARM.

* OPTIONAL

C) REMOTE ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATOR.
3. IF A REMOTE SUPERVISED ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR RECEIVING CIRCUIT, THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT RECEIVING CIRCUIT (TERMINAL #1) AND THE COMMON CONTROL PANEL, PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

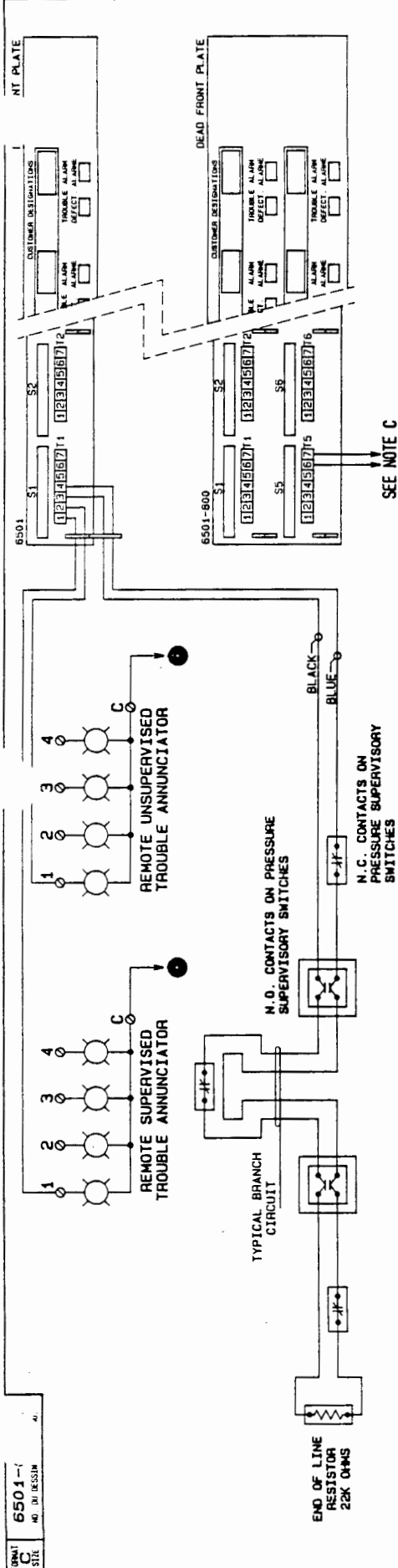
D) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED TR. TERM.	UNSUPERVISED TR. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

REV. 7	DATE	BY	CHKD.	APP.	SIZ.
ISS	DATE	BY	CHKD.	APP.	SIZ.
DESIGNED	DATE	BY	CHKD.	APP.	SIZ.
DWG. REVISED	DATE	BY	CHKD.	APP.	SIZ.
REWORKED	DATE	BY	CHKD.	APP.	SIZ.
TITLE EDWARDS CUSTOMER DRAWING CAT. NO. 6501-0058 SUPERVISORY ALERT RECEIVING MOD. CLASS "B"					
TOL. UNLESS OTHERWISE SPECIFIED DECIMALS 1/100 FRACTIONS 1/32 DIMENSIONS 1/16 DECIMALS 1/100					
PAR. AUTOM. BY DATE DET. 17 1977 SCALE --- VER. 1/1/77 APP. 1/1/77 SIZ. C NO. DU. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.					



INSTALLATION

THE PANEL 6501 OR 6501-800 DOES NOT CONTAIN ANY PLUG-IN CONTROL MODULES. THE PLUG-IN MODULES (6501-62) ARE PACKAGED SEPARATELY AND SHOULD BE INSERTED ONLY AFTER ALL INSTALLATION WIRING IS COMPLETE. THIS PANEL HAS PROVISIONS FOR FOUR OR EIGHT SUPERVISORY ALERT RECEIVING CIRCUITS. PANELS MAY BE ADDED TO INCREASE THE NUMBER OF INITIATING CIRCUITS. THE INSTALLATION AND OPERATION OF ADDITIONAL PANELS WILL BE THE SAME.

A) SUPERV. ALERT RECEIVING CCT. WIRING

1. THE MAXIMUM WIRING LOOP RESISTANCE PER CIRCUIT IS 50 OHM. (E.G. WIRING BETWEEN TERMINALS #3 AND #4). WIRING IS SUITABLE FOR CLASS II WIRING. FIRE ALARM SYSTEM COMPONENTS SHOULD BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUES OF UL-C-5524 AND SECTION 32 OF THE CANADIAN ELECTRICAL CODE.

WIRE GAUGE	LENGTH OF WIRE RUN FROM PANEL TO LAST INITIATING DEVICE	FEET	METERS
14	10,000	3050	
16	6,000	1830	
18	3,925	1197	
19	3,100	946	
20	2,450	747	
21	1,950	595	
22	1,550	473	

2. THE SUPERVISORY ALERT RECEIVING CIRCUITS NUMBER FROM LEFT TO RIGHT STARTING WITH THE UPPERMOST CAT. NO. 6501 OR 6501-800. CONNECT INITIATING DEVICES AS SHOWN. THE END OF LINE RESISTOR MUST BE MOUNTED IN A SINGLE GANG BOX BEYOND THE LAST INITIATING DEVICE FOR EACH CIRCUIT. BRANCH INITIATING DEVICES REQUIRE 4 WIRES AS SHOWN ABOVE.

C) ANCILLARY TROUBLE CONTACT

THIS MODULE HAS ONE N/O REMOTE TROUBLE CONTACT IT IS ACCESSIBLE ON PINS 6 & 7 OF THE 6501 OR 6501-800. CONTACT RATING 0.2 AMPS AT 24V DC ONLY.

D) REMOTE ANNUNCIATOR* WIRING

1. SUPERVISED - TERMINAL #1 PROVIDES 4 WATT (MAX.) OUTPUT FOR A SINGLE LAMP OR LED ANNUNCIATOR. REFER TO ANNUNCIATOR DATA SHEET FOR WIRE SIZE CHART.
2. UNSUPERVISED - TERMINAL #2 PROVIDES 4 WATT (MAX.) OUTPUT FOR LAMP OR LED ANNUNCIATORS.
3. IF A REMOTE SUPERVISED ANNUNCIATOR IS CONNECTED, A LAMP MUST BE CONNECTED FOR EACH RECEIVING CIRCUIT ON THE CONTROL PANEL. IF A LAMP IS NOT CONNECTED FOR A PARTICULAR RECEIVING CIRCUIT, THEN A THEN A DUMMY LOAD (680 OHM, 1 WATT RESISTOR) MUST BE CONNECTED BETWEEN THAT RECEIVING CIRCUIT (TERM.#1) AND THE COMMON CONTROL PANEL. PER CHART. OTHERWISE THE ANNUNCIATOR WILL GIVE A TROUBLE FOR THE MISSING LAMP.

E) CUSTOMER DESIGNATION

CUSTOMER TO TYPE OR PRINT ZONE DESIGNATION ON THE BLANK LABELS SUPPLIED.

CHART

COMMON CONTROL PANEL IN SYSTEM	SUPERVISED TR. TERM.	UNSUPERVISED TR. TERM.
6514-17	10	12
6514-21	12	12
6514-81	14-10	15-12
6517-5	12	12

* OPTIONAL

TO. SAUF SPECIFIC CONTRAIRE
1/1 - 5mm
1/1 - 5mm

TO. SAUF SPECIFIC CONTRAIRE
DECIMALES 1/10 - 015
FRACCTIONS 1/1 - 1/32
DECIMALES 1/10 - 015

PAR M. R. BI DATE AIG 9 1977 EDELLE --- SCALE
REV. DI FORMAT C
APP. 7/ STZ

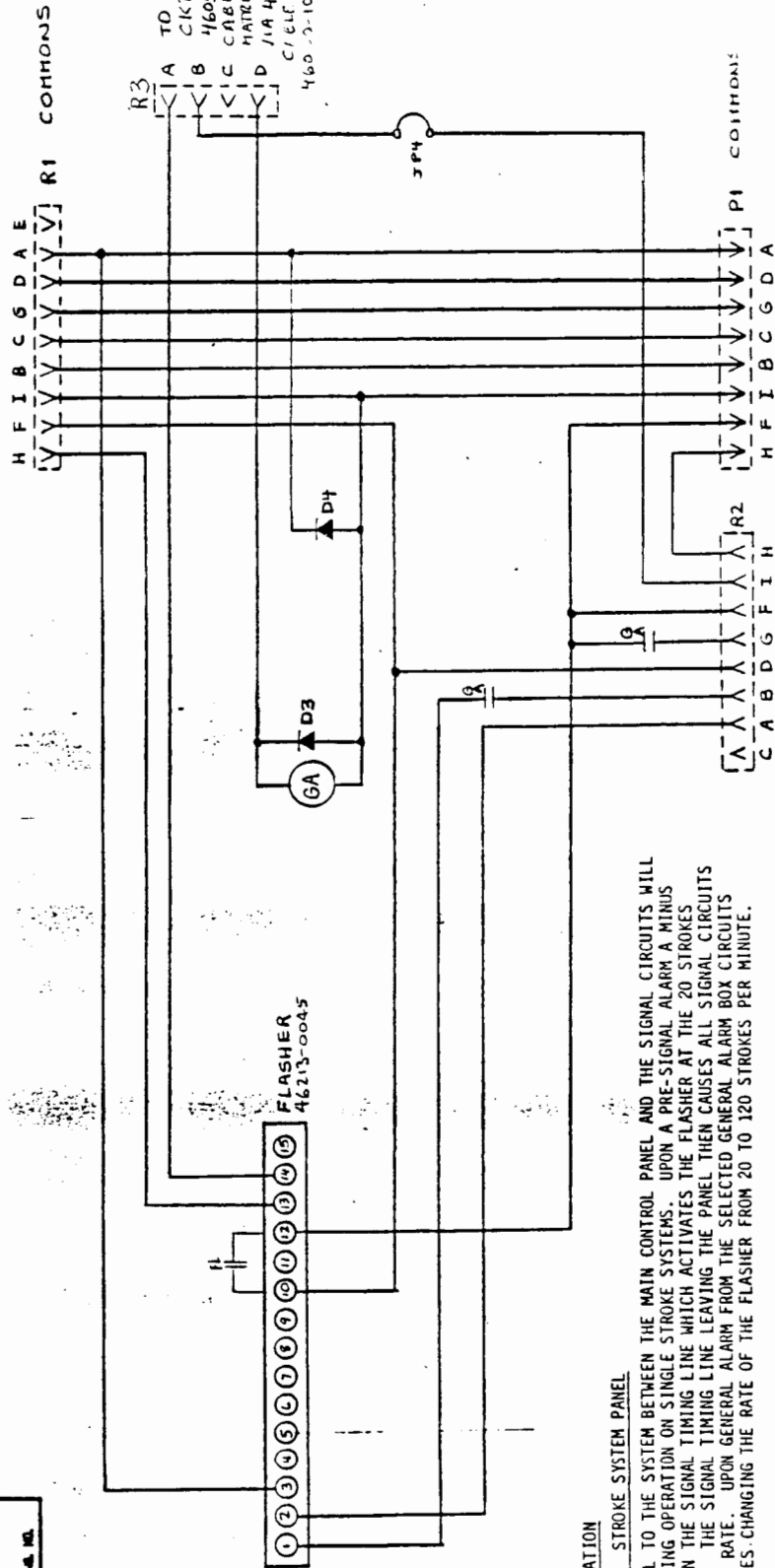
REVISIONS
REMARKS
G5

EDWARDS
11/11E TITLE

CUST. DWG. 6501-0062 SUPV.
ALERT RECEIV. LOCK-ON MOD.
CLASS "B" C/W ANCILLARY CONTACTS

6501-0062E
M. D. U. LESSIN ENG. NO

FORM 102-1548
NO. OF DESIGN 1548
DATE

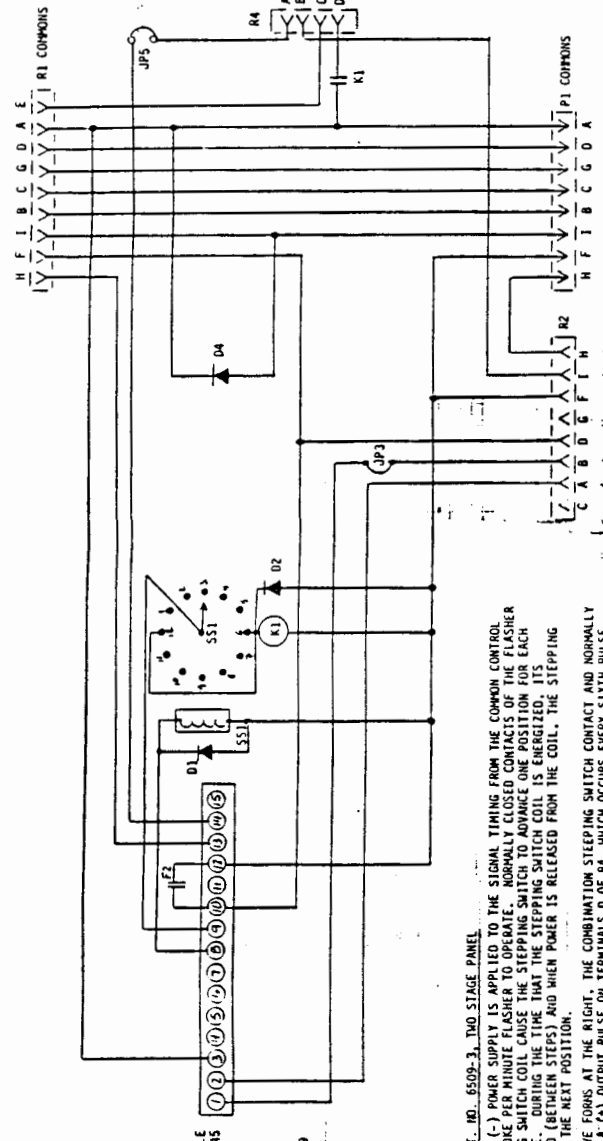


SEQUENCE OF OPERATION

ITEM 6509 SINGLE STROKE SYSTEM PANEL

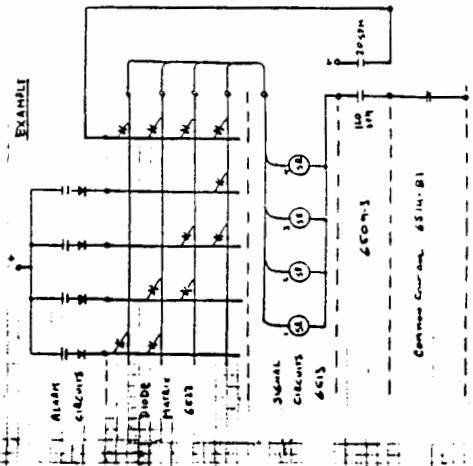
ADDING THIS PANEL TO THE SYSTEM BETWEEN THE MAIN CONTROL PANEL AND THE SIGNAL CIRCUITS WILL GIVE THE FOLLOWING OPERATION ON SINGLE STROKE SYSTEMS. UPON A PRE-SIGNAL ALARM A MINUS FEED IS PLACED ON THE SIGNAL TIMING LINE WHICH ACTIVATES THE FLASHER AT THE 20 STROKES PER MINUTE RATE. THE SIGNAL TIMING LINE LEAVING THE PANEL THEN CAUSES ALL SIGNAL CIRCUITS TO SOUND AT THIS RATE. UPON GENERAL ALARM FROM THE SELECTED GENERAL ALARM BOX CIRCUITS RELAY GA ENERGIZES CHANGING THE RATE OF THE FLASHER FROM 20 TO 120 STROKES PER MINUTE.

REV OF PANEL JOB NAME	PROP NO.	DATE	BY	VER	DI	MP	DATE	EDIBLE	SCALE
DESIGN OR REF. NO. 46213-1707 REF. DATE							9/1987		
REV OF ORIGINAL DESIGN JOB NAME									
EDWARDS									
ITEM	6509	SCHEMATIC FOR 6509 TWO STROKE - SINGLE							
TITLE	TITLE 6509 TWO STROKE - SINGLE								
PAN	46213-0045	DATE	9/1987	EDIBLE					
TOL. SAUF SPECIFIC CONTINUED	DECIMAL 1/100	FRACTIONS 1/16	DECIMALS 1/100						
TOL. UNLESS OTHERWISE SPECIFIED	1/16	1/8	1/32						
NO. OF DESIGN	1548	NO. OF DESIGN	1548	NO. OF DESIGN	1548	NO. OF DESIGN	1548	NO. OF DESIGN	1548



187 cable

SEQUENCE OF OPERATION - CAT. NO. 6509-3, 2ND STAGE PANEL
 DURING ALARM CONDITIONS, A (-) POWER SUPPLY IS APPLIED TO THE SIGNAL TIMING FROM THE COMMON CONTROL PANEL, CAUSING THE 120 STROKES PER MINUTE FLASHER TO OPERATE. NORMALLY CLOSED CONTACTS OF THE FLASHER IN SERIES WITH THE STEPPING SWITCH COIL CAUSE THE STEPPING SWITCH TO ADVANCE ONE POSITION FOR EACH FLASH OF THE FLASHER MODULE. DURING THE TIME THAT THE STEPPING SWITCH COIL IS ENERGIZED, ITS REVOLVING CONTACT IS OPENED (BETWEEN STEPS) AND WHEN POWER IS RELEASED FROM THE COIL, THE STEPPING SWITCH CONTACT ADVANCES TO THE NEXT POSITION.
 AS CAN BE SEEN FROM THE WAVE FORMS AT THE RIGHT, THE COMBINATION STEPPING SWITCH CONTACT AND NORMALLY OPEN FLASHING CONTACT GIVE A (+) OUTPUT PULSE ON TERMINALS D OF R4, WHICH OCCURS EVERY SIXTH PULSE AND IS IN PHASE WITH THE (-) PULSES GIVEN BY THE NORMALLY OPEN FLASHING CONTACT IN THE SIGNAL TIMING LINE.
 THE 20 STROKES PER MINUTE (+) PULSES ARE APPLIED TO ALL SIGNAL RELAYS THROUGH DIODES ON THE DIODE MATRIX IN ORDER THAT WHEN A PRE-SIGNAL FROM ANY BOX CIRCUIT IS RECEIVED ALL SIGNAL CIRCUITS WILL STROBE AT 20 SPM EXCEPT THE SIGNAL CIRCUITS WHICH ARE DIRECTLY ZONED TO THE BOX CIRCUIT ENERGIZED. THESE LATTER SIGNAL RELAYS WILL RECEIVE A STEADY (+) FEED FROM THE BOX CIRCUIT AND DIODE MATRIX AND THEREFORE WILL STROBE AT 120 STROKES PER MINUTE DUE TO THE FLASHER CONTACT ON THE SIGNAL TIMING.
 WHEN USING 6503-100 PANELS COMPLETION CAP - 105 MUST BE PUT ON R2. THIS SUPPLIES 20 SPM TO LINE FOR PRE-SIGNAL ALARM OPERATION.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

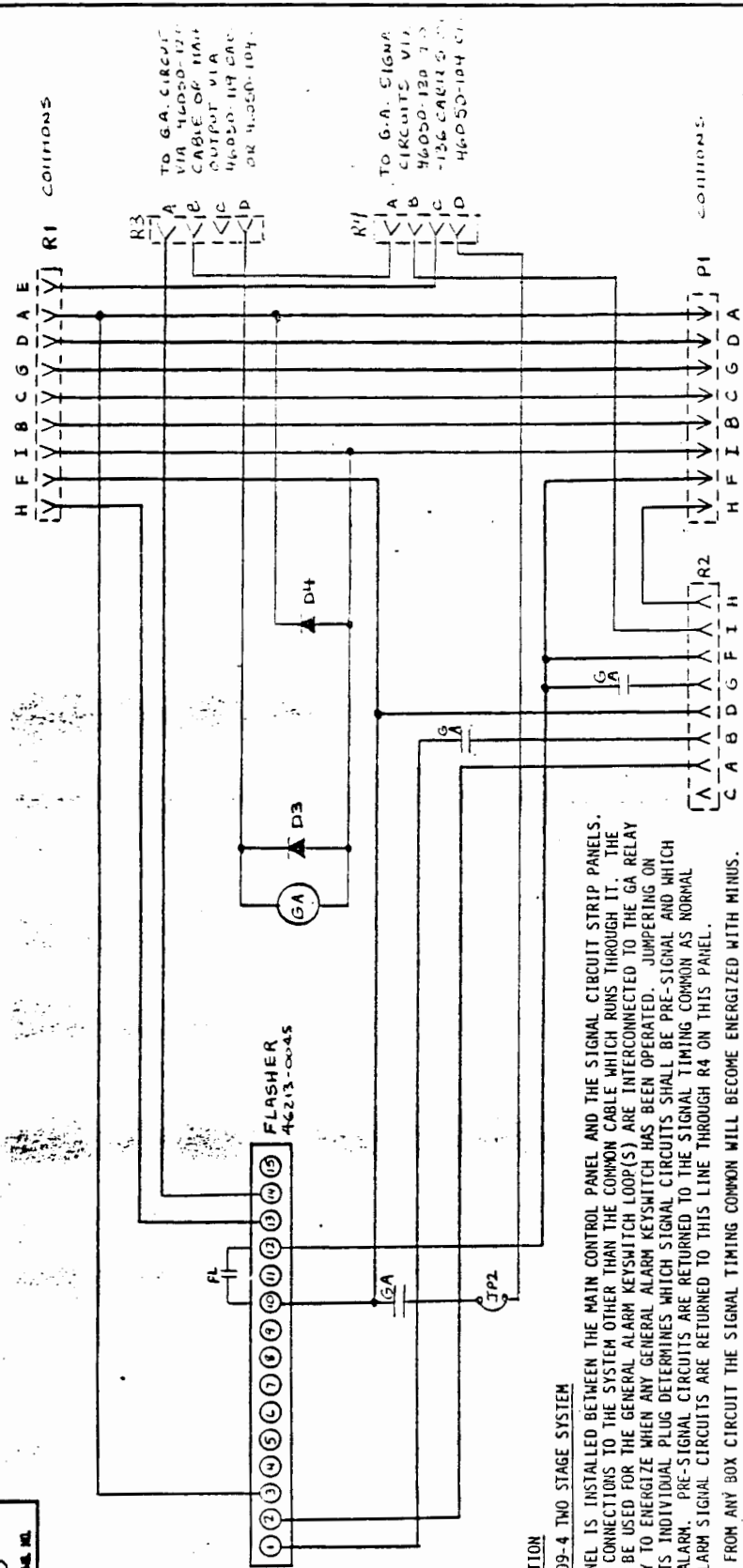
1ST RELEASE
 remarks
 65
 EDWARDS
 LHM UIN
 SCHEMATIC FOR 6509-3
 2ND STAGE RECEIVING PC BOARD
 C/N P.P. 46003-0079 STEPPING
 SWITCH - U/O 6500/6500 II

tolerances and special conditions
 dimensions = 0.15
 tolerances = 3mm
 tolerances = 1/32
 dimensions = 0.15

PM BY BREH
 DATE SEPT. 24/87
 FORM C
 102 - 1549
 no de dessin eng no.

no de dessin eng no.	102 - 1549
no de dessin eng no.	46213-1708
ref de depart dep ref.	
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FORM 102-1550
NO. DU DESIGN 102-1550



SEQUENCE OF OPERATION

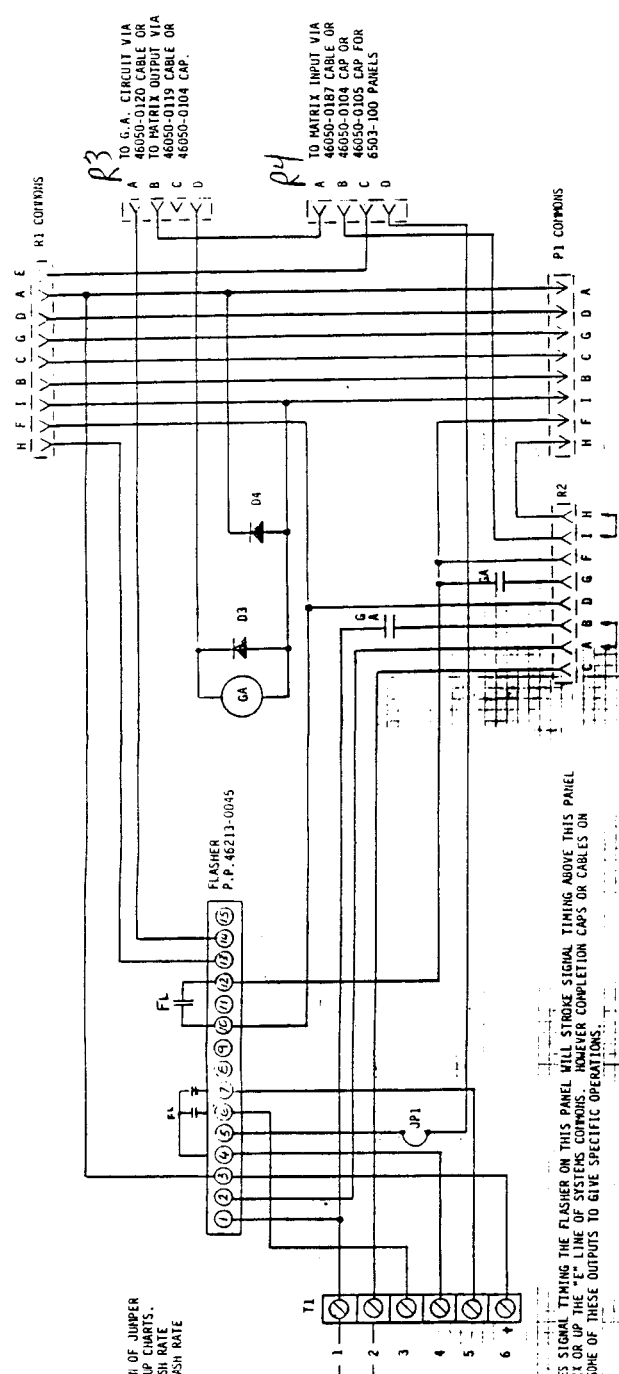
PANEL ITEM NO. 6509-4 TWO STAGE SYSTEM

WHEN USED THIS PANEL IS INSTALLED BETWEEN THE MAIN CONTROL PANEL AND THE SIGNAL CIRCUIT STRIP PANELS. THE PANEL HAS TWO CONNECTIONS TO THE SYSTEM OTHER THAN THE COMMON CABLE WHICH RUNS THROUGH IT. THE BOX CIRCUIT(S) TO BE USED FOR THE GENERAL ALARM KEY SWITCH LOOP(S) ARE INTERCONNECTED TO THE GA RELAY CAUSING THIS RELAY TO ENERGIZE WHEN ANY GENERAL ALARM KEY SWITCH HAS BEEN OPERATED. JUMPERING ON THE SIGNAL CIRCUITS INDIVIDUAL PLUG DETERMINES WHICH SIGNAL CIRCUITS SHALL BE PRE-SIGNAL AND WHICH SHALL BE GENERAL ALARM. PRE-SIGNAL CIRCUITS ARE RETURNED TO THE SIGNAL TIMING COMMON AS NORMAL WHEREAS GENERAL ALARM SIGNAL CIRCUITS ARE RETURNED TO THIS LINE THROUGH R4 ON THIS PANEL.

UPON A PRE-SIGNAL FROM ANY BOX CIRCUIT THE SIGNAL TIMING COMMON WILL BECOME ENERGIZED WITH MINUS. ALL PRE-SIGNAL CIRCUITS SHALL SOUND. WHEN A GENERAL ALARM IS INITIATED GA ENERGIZES CLOSING ITS CONTACTS AND CAUSING ALL SIGNALS TO SOUND.

A PRE-SIGNAL SOUNDS P.S. SIGNALS AT 20 STROKES PER MINUTE AND A GENERAL ALARM SOUNDS ALL SIGNALS AT 120 STROKES PER MINUTE.

NON DU PANEL JOB NAME	PROF. NO.	DESIGN NO. 102-1550	REV. DATE 102-1550	DESIGN NO. 102-1550	REV. DATE 102-1550	NO. DU DESIGN 102-1550	DATE OF REV. 9/1987	FORM 102-1550	SCALE 1
TITLE		SCHEMATIC FOR 6509-4 TWO STAGE CONTROL		SIGNALS P.C. 80, 1/2 6500/6500L		DATE OF REV. 9/1987		SCALE 1	
PART		BY HER		DATE OF REV. 9/1987		FORM 102-1550		SCALE 1	
TOL. UNLESS OTHERWISE SPECIFIED		1/2 3/4		DECIMAL 1/2 1/32		FRACTIONS 1/2 1/32		SCALE 1	
FINISH		MATERIAL		NO. DU DESIGN 102-1550		DATE OF REV. 9/1987		SCALE 1	
EDWARDS		EDWARDS		NO. DU DESIGN 102-1550		DATE OF REV. 9/1987		SCALE 1	



DESIGN NOTE
 MAKE SURE POSITION OF JUMPER IS NOTED ON BACK-UP CHARTS.
 * 'IN' FOR FAST FLASH RATE
 * 'OUT' FOR SLOW FLASH RATE

GENERAL
 UPON ANY ALARM THAT ACTIVATES SIGNAL TIMING THE FLASHER ON THIS PANEL WILL STROKE SIGNAL TIMING ABOVE THIS PANEL AND STROKING PLUS TO THE MATRIX OR UP THE "E" LINE OF SYSTEMS COMMONS. HOWEVER, COMPLETION CAPS OR CABLES ON R2, R3, AND R4 WILL DEFEAT SOME OF THESE OUTPUTS TO GIVE SPECIFIC OPERATIONS.

OPERATION "A"
 THIS OPERATION PROVIDES STROKING SIGNAL TIMING TO THE SIGNAL CIRCUITS ABOVE THIS PANEL ON A 1ST STAGE ALARM, AND STROKING SIGNAL TIMING ON A 2ND STAGE ALARM. THE STROKING RATE CAN BE SET FROM 3 SPH TO 180 SPH.

OPERATION "B"
 THIS OPERATION DOES NOT STROKE SIGNAL TIMING, BUT DOES PROVIDE A STROKING PLUS AT PIN D OF R4 FOR CONNECTION TO THE MATRIX OR THE "E" LINE OF SYSTEMS COMMONS. THE STROKING RATE CAN BE SET FROM 3 SPH TO 180 SPH.

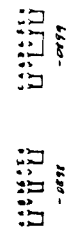
OPERATION "C"
 UPON AN ALARM ALL 1ST STAGE SIGNAL CIRCUITS STROKE AND ALL 2ND STAGE SIGNAL CIRCUITS OPERATE STROKING.

COMPLETION CAPS OR CABLES
 R1 P.P. 46050-0104
 R2 P.P. 46050-0187 TO MATRIX
 R3 P.P. 46050-0105 FOR 6503-100'S
 R4 P.P. 46050-0899

OPERATION "E"
 THIS OPERATION PROVIDES SLOW RATE STROKING (3 SPH TO 40 SPH). SIGNAL TIMING ON A 1ST STAGE ALARM AND FAST RATE (60 SPH TO 180 SPH) STROKING SIGNAL TIMING ON A 2ND STAGE ALARM TO THE SIGNAL CIRCUITS ABOVE THIS PANEL.

COMPLETION CAPS OR CABLES
 R1 P.P. 46050-0119 TO MATRIX
 R2 P.P. 46050-0114
 R3 P.P. 46050-0155

* RI COMPLETION CAPS 46050-



6509-23
 -0899
 -0999

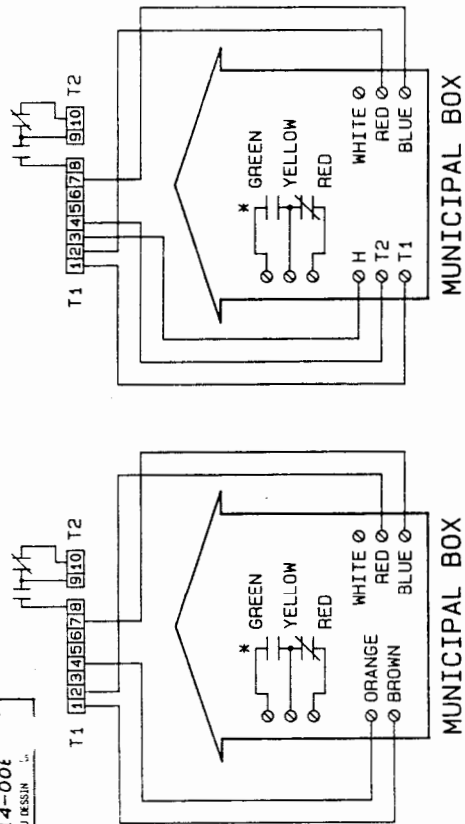
1	DATE	BY	CHKD	REVISION
1	08/18/87	APP		1ST RELEASE

EDWARDS
 SCHAFFER CORPORATION
 102 - 1551
 SCHEMATIC FOR 6509-27
 TWO STAGE SIGNALING PC BOARD
 C/M VARIABLE RATE FLASHER
 U/O 6500/6501 II

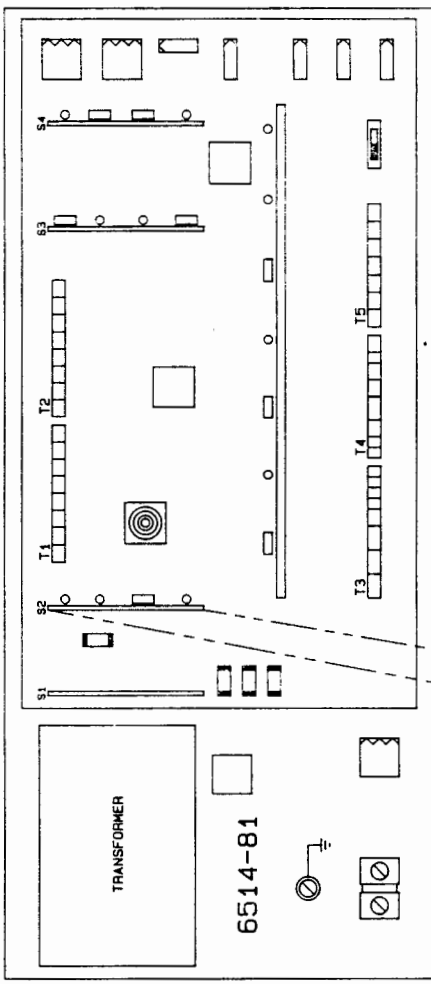
INCHES AND SPECIAL CONTRACTIONS
 DECIMALS = 0.15
 FRACTIONS = 1/32
 DECIMALS = 0.15

DESIGNED BY: BREN
 DATE: SEPT 24/87
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

6514-006
NO. DU BISSIN



NOTE: ALL CONTACTS ARE SHOWN WITH THE SYSTEM IN THE NORMAL SUPERVISORY CONDITION (TROUBLE RELAY ENERGIZED).



INSTALLATION
CONNECT 4 WIRES FROM MUNICIPAL BOX, TO TERMINAL BLOCK T1 AS SHOWN. MAXIMUM LOOP RESISTANCE FROM TERMINALS #1 AND #4 IS 50 OHMS.
AUXILIARY ALARM OPERATED CONTACTS THE DRY CONTACTS (TERMINALS #8, #9 AND #10) ARE RATED AT 5 AMP. RESISTIVE AND 3 AMP. INDUCTIVE AT 24V. DC. AND 120V. AC.

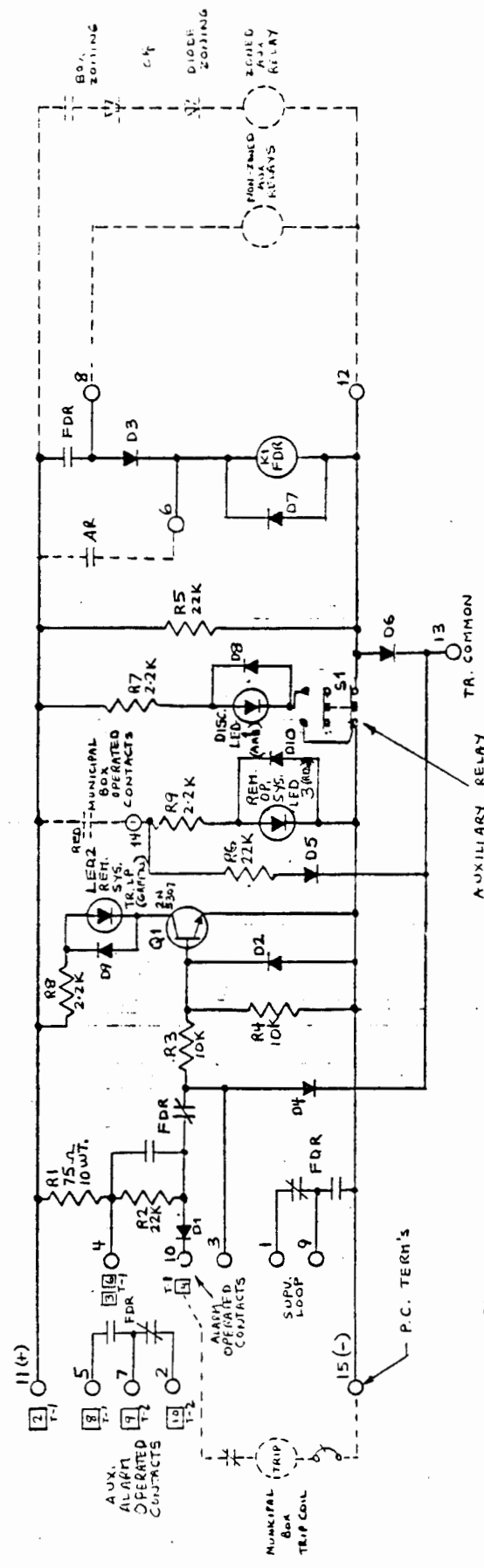
OPERATION
AN ALARM ON THE FIRE ALARM SYSTEM WILL CAUSE THE ALARM CONTACTS ON THIS MODULE TO OPERATE. THIS WILL SEND AN ALARM SIGNAL TO THE MUNICIPAL BOX, CAUSING IT TO SEND ITS CODE TO THE FIRE HALL OR REMOTE STATION.
THE REMOTE SYSTEM OPERATED RED L.E.D. WILL LIGHT WHEN THE MUNICIPAL BOX HAS OPERATED. WHEN THE FIRE ALARM SYSTEM IS BEING RESET, ALSO RESET THE MUNICIPAL BOX. THE REMOTE SYSTEM OPERATED RED L.E.D. WILL THEN EXTINGUISH.
AN OPEN IN THE TRIP CIRCUIT WIRING BETWEEN THE LOCAL FIRE ALARM PANEL AND THE MUNICIPAL BOX (TERMINALS 1, 3 AND 4 ON T1) WILL CAUSE THE GREEN REMOTE STATION TROUBLE L.E.D. TO LIGHT. A COMMON TROUBLE SIGNAL ON THE LOCAL FIRE ALARM SYSTEM WILL ALSO SOUND.
OPERATION OF THE DISCONNECT SWITCH WILL DISCONNECT THE MUNICIPAL BOX AND WILL CAUSE A COMMON TROUBLE SIGNAL TO SOUND. AN AMBER DISCONNECT LAMP WILL LIGHT UNTIL THE DISCONNECT SWITCH IS RETURNED TO NORMAL.
* THE MUNICIPAL BOX HAS AUXILIARY CONTACTS WHICH OPERATE FOR THE DURATION OF THE CODE THESE CONTACTS CAN BE WIRED INTO A FIRE ALARM RECEIVING CIRCUIT SIMILAR TO A MANUAL STATION WHEN IT IS REQUIRED THAT OPERATION OF THE MUNICIPAL BOX SHOULD CAUSE THE LOCAL FIRE ALARM SIGNALS TO SOUND.

ISS DATE	PAR	REV	BY	CHK	APP
1 06/88					
FIRST ISSUE					
REMARKS					
GS					
USE FILLING ON MANUAL STATION A UNIT OF ORIGINAL SIGNAL					
EDWARDS					
TITLE					
CUSTOMER DWG. 6514-86					
REM. STATION CONN. - LOCAL					
ENERGY BOX TRIP/HOLD COILS					
TOL. UNLESS OTHERWISE SPECIFIED		DATE	REV.	SCALE	
DECIMALS 1/100		NOV 12 1987			
FRACTIONS 1/32					
DECIMALS 1/100					
NO. DU BISSIN	CH	FORMA	SIZE	DWG. NO.	
APP	APP	C		6514-0086 E	

REF. DU MONT.	FINI	SCALE
REF. DU LA PERFOR.	MATERIEL	
REF. DU FILAIRE		
REF. DU FILLAGE		
PROJ. NO.		
NO. DU PROJET		
NO. DU BISSIN		
JOB NAME		

102-1533
no. de desenh. eng. de.

NOTE: UNLESS OTHERWISE STATED
1. ALL DIODES ARE IN4004
2. ALL RESISTORS ARE 1/2 WATT



NOTE: FOR TEST PURPOSES
REPLACE TRIP COIL
WITH 200 OHM 1/2 WATT
RESISTOR

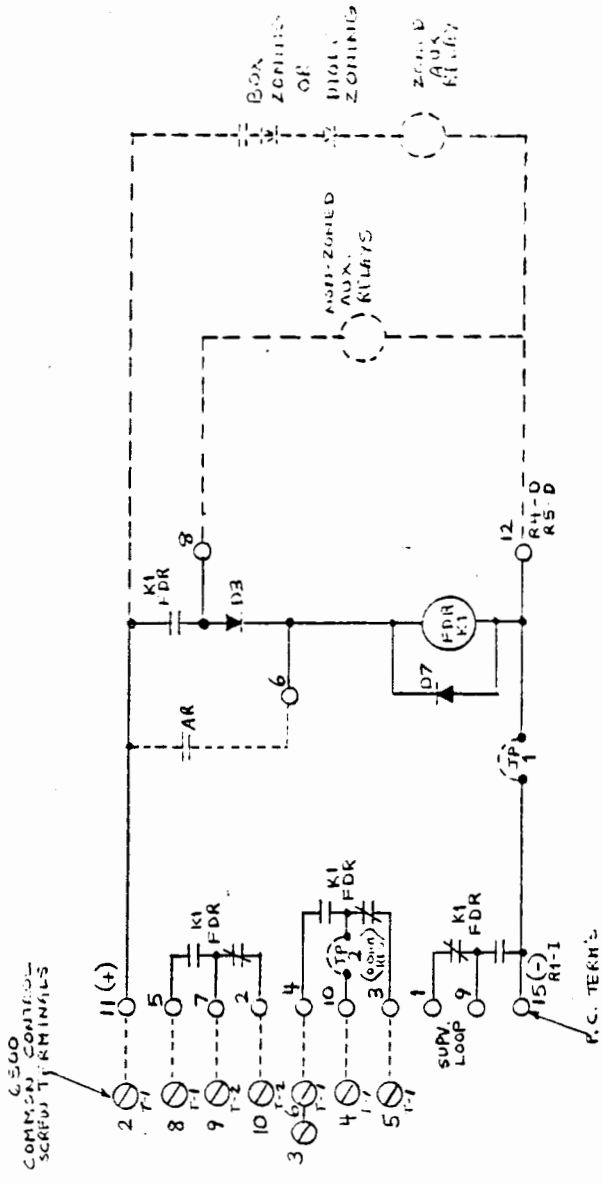
AUXILIARY RELAY
AND F.D.R.
DISCONNECT SWITCH

11855

nom do projeto	job name	prop no.	no. de desenh. eng. de.	no. de desenh. eng. de.
102-1533			102-1533	102-1533
format B	format B	format B	format B	format B
date MAY 5 1987	date MAY 5 1987	date MAY 5 1987	date MAY 5 1987	date MAY 5 1987
desenhado por	desenhado por	desenhado por	desenhado por	desenhado por
AB	AB	AB	AB	AB
verificado por	verificado por	verificado por	verificado por	verificado por
titulo	SCHEMATIC DIAGRAM FOR 654-S6 FERRIC OXIDE TRIPPEK TYPE - V/O 6500 CONTROL CENTRAL	titulo	SCHEMATIC DIAGRAM FOR 654-S6 FERRIC OXIDE TRIPPEK TYPE - V/O 6500 CONTROL CENTRAL	titulo
escala		escala		escala
no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.
102-1533	102-1533	102-1533	102-1533	102-1533
format B	format B	format B	format B	format B
format B	format B	format B	format B	format B
no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.	no. de desenh. eng. de.
102-1533	102-1533	102-1533	102-1533	102-1533

102 - 1531
no. de dessin
102 - 1531
no. de dessin

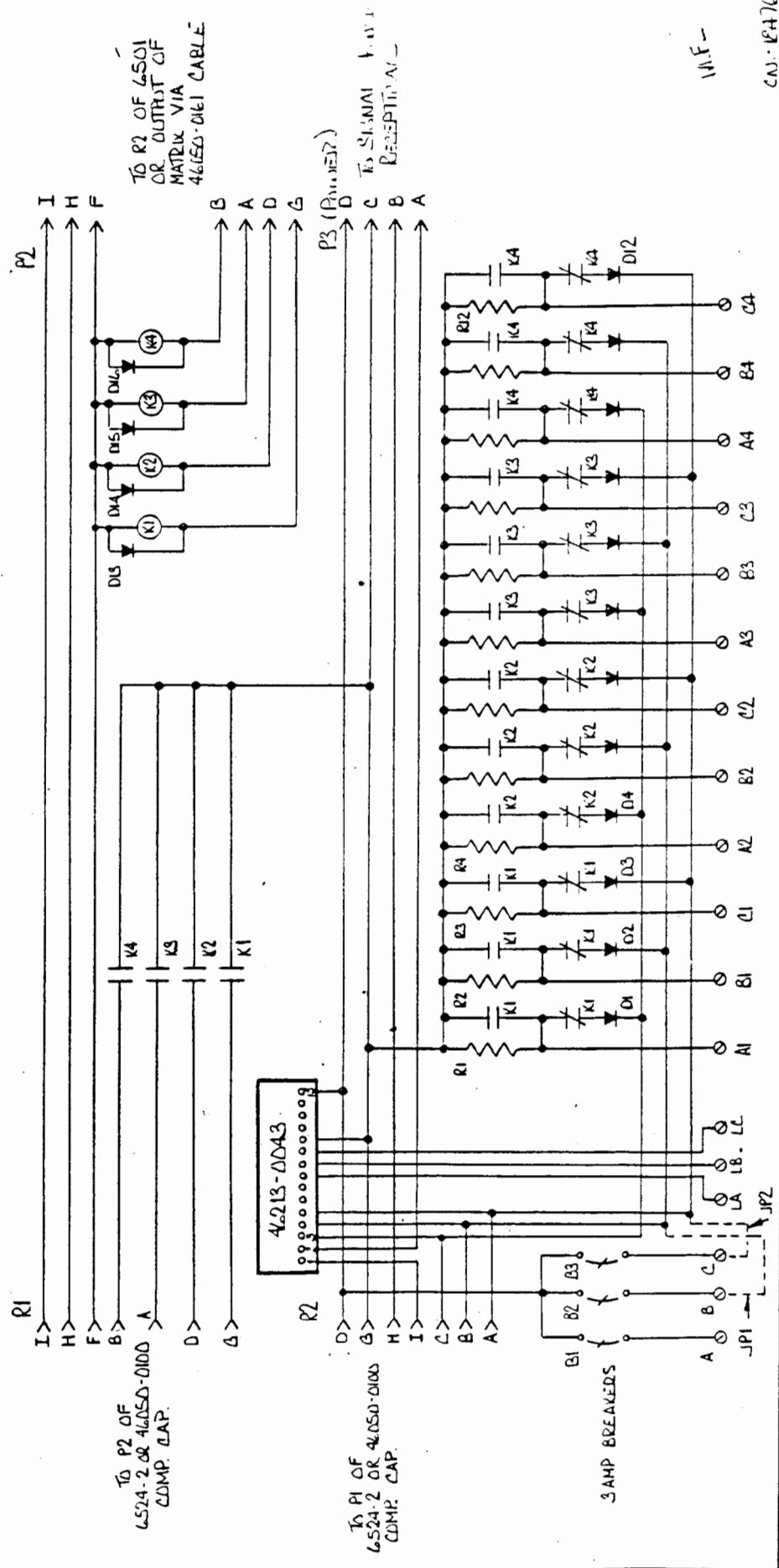
NOTE: ALL DIODES ARE IN4004



102-1531

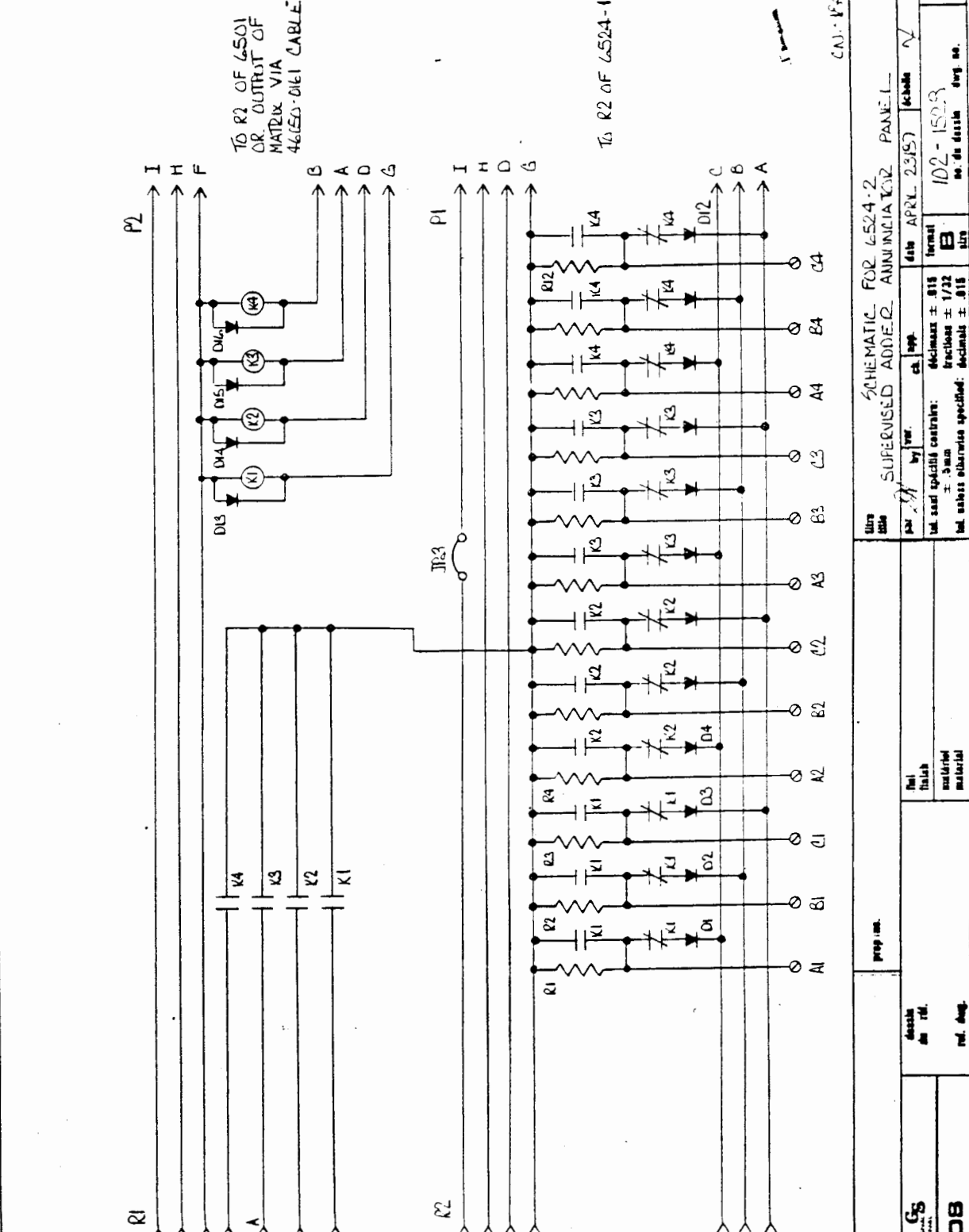
nom de projet	job name	proj. no.	titre	SCHEMATIC DIAGRAM FOR 40213-1382	date	10/2/77	format	B	no. de dessin	102-1531	no. de dessin	102-1531	no. de dessin	102-1531
dessin de réf.	ref. des.	proj. no.	titre	SCHEMATIC DIAGRAM FOR 40213-1382	date	10/2/77	format	B	no. de dessin	102-1531	no. de dessin	102-1531	no. de dessin	102-1531
G.S.		G.S.		G.S.		G.S.		G.S.		G.S.		G.S.		
EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		EDWARDS		

102-1527
 J. W. Edwards Corp. Eng. Div.



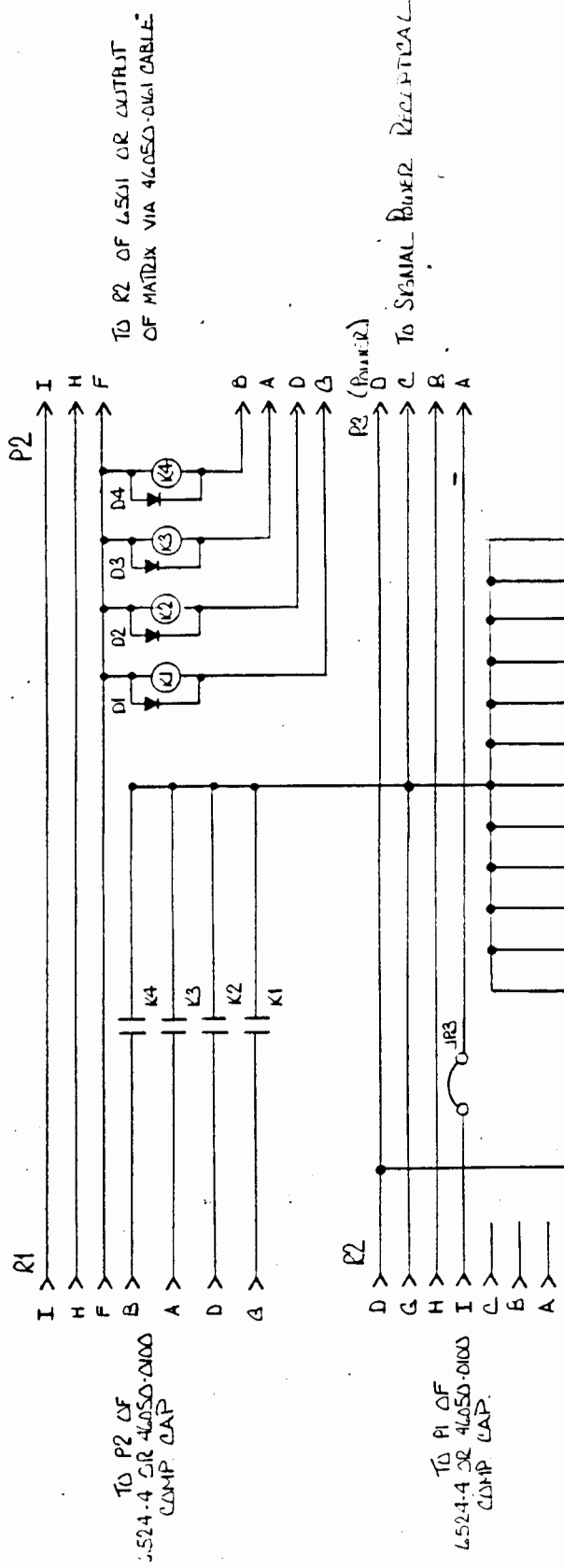
Item No. 102-1527 Job Name EDWARDS		Prep. Date APR 23/57 Date Recd. APR 23/57		Scale 1/16" Drawing No. 102-1527	
Design GS Checked GS Approved GS		Title SCHEMATIC FOR 6524-1 SUPERVISED MASTER ANNUNCIATOR PANEL-1		Date APR 23/57 Scale 1/16"	
Part No. EDWARDS Description EDWARDS		Material EDWARDS Quantity EDWARDS		Unit Price EDWARDS Total Price EDWARDS	

102-1528
no. de desenh. org. int.



nom. de job name	proj. no.	SCHEMATIC FOR 4524-2		ANUNCIATOR PANEL		scale
desenha. em tril.	desenh. em tril.	desenh. em tril.	desenh. em tril.	desenh. em tril.	desenh. em tril.	desenh. em tril.
ref. desig.	ref. desig.	ref. desig.	ref. desig.	ref. desig.	ref. desig.	ref. desig.
102-1528	102-1528	102-1528	102-1528	102-1528	102-1528	102-1528
EDWARDS	EDWARDS	EDWARDS	EDWARDS	EDWARDS	EDWARDS	EDWARDS
no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.
102-1528	102-1528	102-1528	102-1528	102-1528	102-1528	102-1528
no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.
102-1528	102-1528	102-1528	102-1528	102-1528	102-1528	102-1528
no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.
102-1528	102-1528	102-1528	102-1528	102-1528	102-1528	102-1528
no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.	no. de desenh. org. int.
102-1528	102-1528	102-1528	102-1528	102-1528	102-1528	102-1528

102-1529
no. de desenho desig. no.



TO R2 OF LS01 OR OUTPUT
OF MATRIX VIA 46050-0101 CABLE.

TO P2 OF
LS24-4 OR 46050-0100
COMP. CAP.

TO P1 OF
LS24-4 OR 46050-0100
COMP. CAP.

3 AMP BREAKERS

TO SIGNAL BLOWER RECEIPTAL

I.A.F.L.
CJ 18476

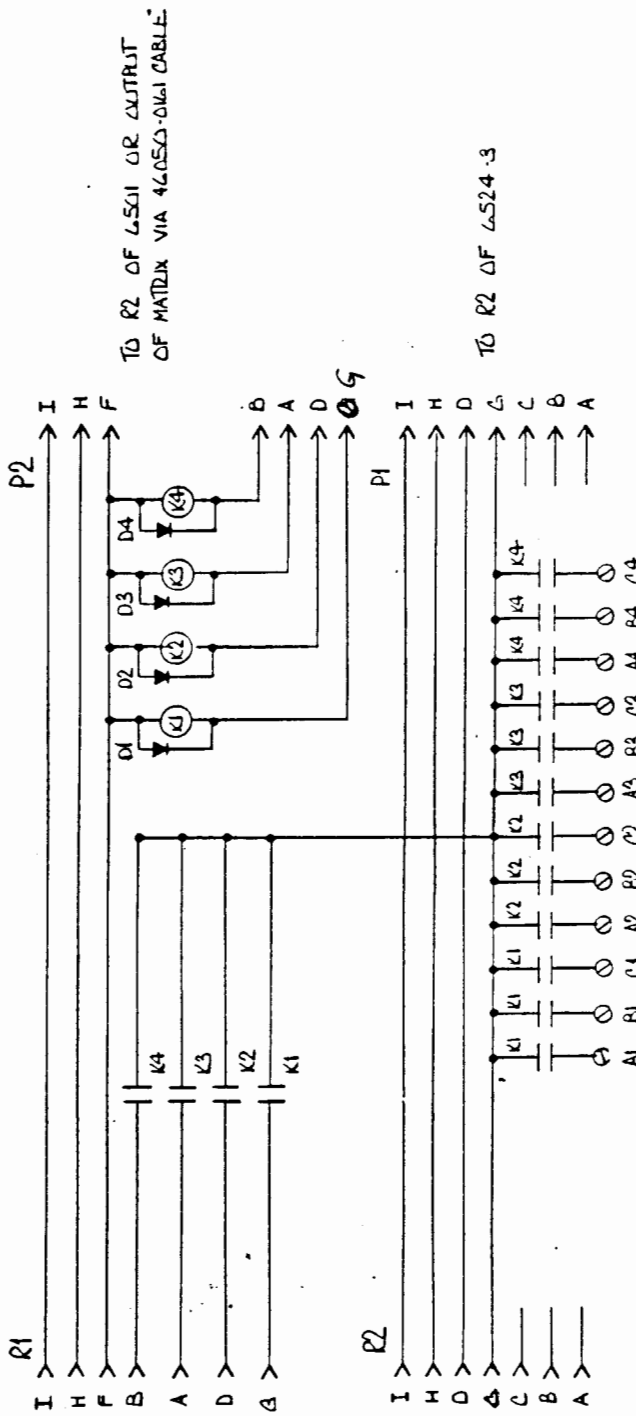
SCHEMATIC FOR LS24-3
UNSUPERVISED MASTER ANNUNCIATOR PANEL

job no.	102-1529	date	APRIL 29/87	scale	1/4"
desig.	B	format	B	base	
no. de desenho	102-1529	no. de desenho	102-1529	no. de desenho	102-1529
desig.	B	format	B	base	
no. de desenho	102-1529	no. de desenho	102-1529	no. de desenho	102-1529

102-1529
no. de desenho desig. no.

EDWARDS

102-1530
no. for design comp. no.



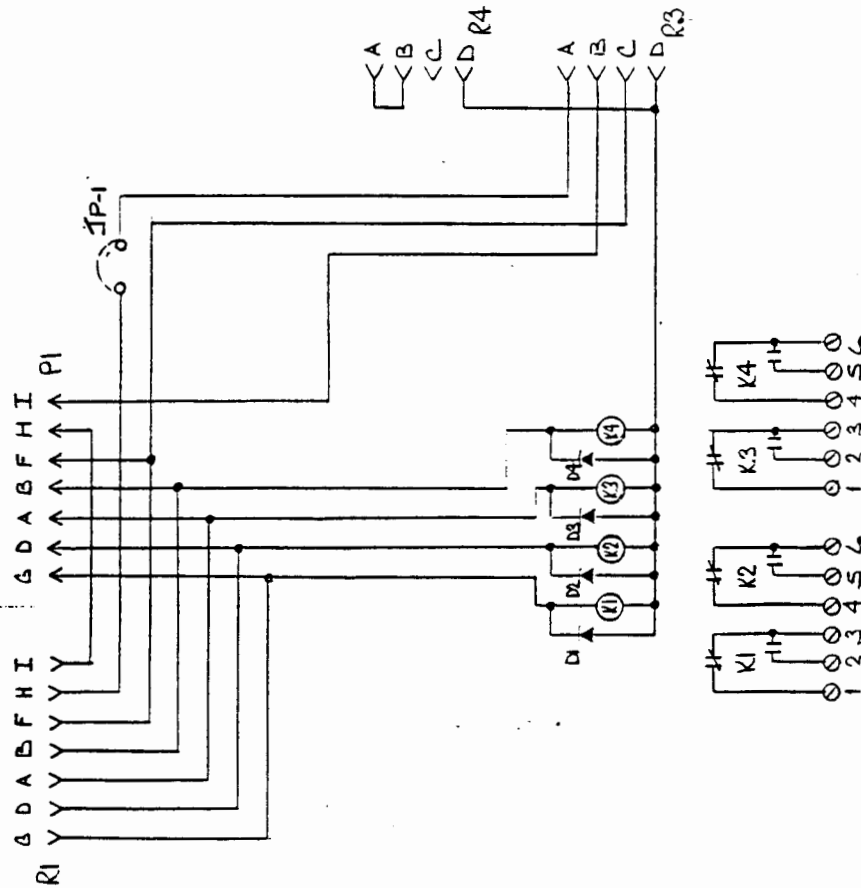
TO R2 OF L524-4 OR 4050-0161 CABLE

TO R1 OF L524-4

M.F. 18476

FORM 102-1530	SCHEMATIC FOR L524-4		UNSUPERVISED ADDED ANNUNCIATOR PANEL		SCALE
DESIGNED BY: EDWARDS	DATE: APRIL 23 1957	BY: [Signature]	CHK: [Signature]	REV: [Signature]	BASE
TO P2 OF L524-4 OR 4050-0100 COMP. CAP.		TO R1 OF L524-4		FORMAL: E	102-1530
TO R2 OF L524-4 OR 4050-0161 CABLE				NO. OF DESIGNS: 1	
				NO. OF SHEETS: 1	

102-152S
no. du dessin eng. no.



102-152S

nom du projet	job name	SCHEMATIC		F02	652S-4	AJX	RELAY	CIRCUIT	scale	1	sheet	1
dessin de réf.	ref. eng.	par	SA	by	ver.	ch	app.	date	APRIL 1957	format	B	102-152S
Edwards	EDWARDS	L'ESPLANTE DE GENERAL SIGNAL A UNIT OF GENERAL SIGNAL		Tol. max ± .018		Tol. max ± .5mm		Tol. max ± 1/32		Tol. max ± .018		no. de dessin eng. no.
												no. de dessin eng. no.

FORM 1
8
 CAT. NO. 6525-0008E
 NO. DU DESIG. DIM. NO.

INSTALLATION

EIGHT RELAYS ARE PROVIDED ON EACH CAT. NO. 6525-8 RELAY PANEL FOR THE CONTROL OF ANCILLARY DEVICES. EACH RELAY PROVIDES A ONE "C" DRY CONTACT RATED FOR 5 AMP. RESISTIVE AT 120V. A.C. OR 28V. D.C. WIRE GAUGE AND FUSING TO BE DETERMINED BY THE CUSTOMER DEPENDING ON THE APPLICATION.

NOTE: ANCILLARY DEVICES SHOULD BE CONNECTED SO THAT AN OPEN, SHORT OR GROUND FAULT IN THE FIELD WIRING WILL NOT AFFECT THE OPERATION OF THE FIRE ALARM SYSTEM (ULC S524).

IDENTIFICATION OF ANCILLARY RELAY OPERATION

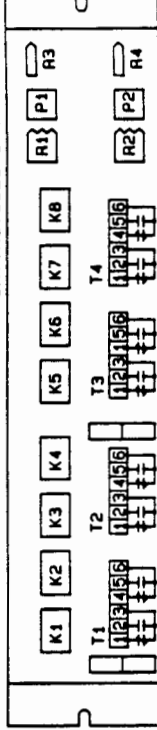
ANCILLARY RELAY PANELS SUPPLIED, MAY BE INSTALLED IN ONE OR MORE OF THE FOLLOWING COMBINATIONS.

- A) COMMON OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW THE COMMON CONTROL PANEL, THE ANCILLARY RELAYS ON THIS STRIP PANEL WILL OPERATE WHENEVER AN ALARM IS RECEIVED ON ANY ALARM RECEIVING CIRCUIT.
- B) INDIVIDUAL OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW EACH ALARM RECEIVING STRIP PANEL (6501-800), THEN EACH ANCILLARY RELAY IS INTERNALLY CONNECTED TO THE ALARM RECEIVING CIRCUIT DIRECTLY ABOVE IT ONLY; E.G. OPERATION OF ALARM RECEIVING CIRCUIT #1 WILL ENERGIZE ANCILLARY RELAY #1 ONLY, CIRCUIT #2 WILL ENERGIZE ANCILLARY RELAY #2 ONLY, ETC.
- C) ZONED OPERATION
 WHEN THIS STRIP PANEL IS LOCATED BELOW THE PROGRAMMING PANEL (CAT. NO. 6522), THEN EACH RELAY MAY BE ZONED TO CERTAIN ALARM RECEIVING CIRCUITS; E.G. OPERATION OF ALARM RECEIVING CIRCUIT #1 MAY ENERGIZE ANCILLARY RELAYS #1, #3 AND #6. NOTE: SEE PROGRAMMING PANEL DRAWING FOR EXACT ZONING OF ANCILLARY RELAYS FOR THIS JOB.
- D) DISCONNECT
 IF A FIRE DEPARTMENT MODULE IS INCLUDED WITH THE SYSTEM, THEN ALL RELAYS WILL BE DISCONNECTED FROM ALARM OPERATION WHEN IN THE BY-PASS MODE.

DEAD FRONT PLATE



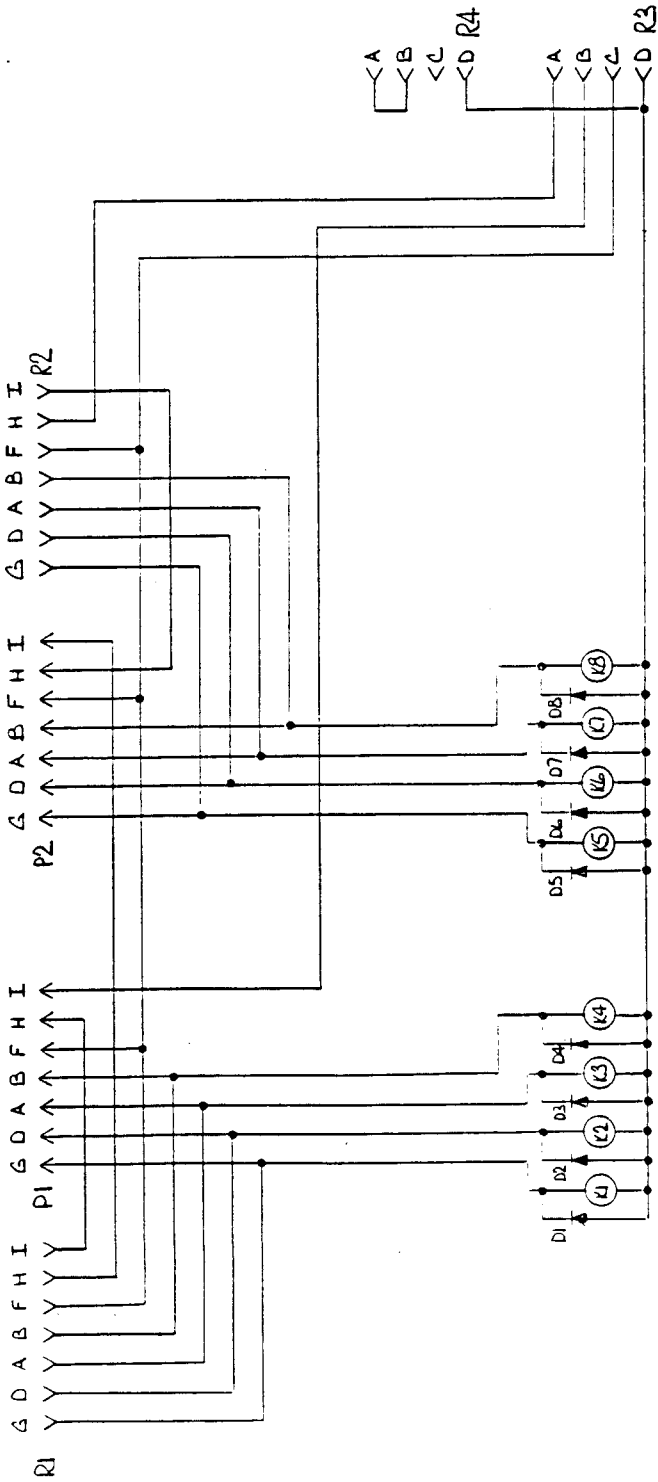
CAT. NO. 6525-8 STRIP PANEL



M.F. 1

REV. DU PROJET JOB NAME	FORM NO.	TITLE CUST. DWG. CAT. NO. 6525-8, 8 "1C" RELAY PNL.	DATE AUG. 06 1987	EDITION 1	SCALE ---
DESIGNER DU REF. REF. DIM.	PROP. NO.	PNR ANTON	BY NER	CH MYP	DATE AUG. 06 1987
NO. DU PROJET A L'ACTE DE REVISION EDWARDS	DESIGNER DU REF. REF. DIM.	TOL. SAUF SPECIFIE CONTRAINE 1/2 - 3/16	DECIMALES 1/2 - 015	FRACTIONS 1/2 - 1/2	NO. DU DESIG. 6525-0008 E
NO. DU PROJET A L'ACTE DE REVISION EDWARDS	DESIGNER DU REF. REF. DIM.	TOL. UNLESS OTHERWISE SPECIFIED	DECIMALES 1/2 - 015	FRACTIONS 1/2 - 1/2	DIM. NO. ---

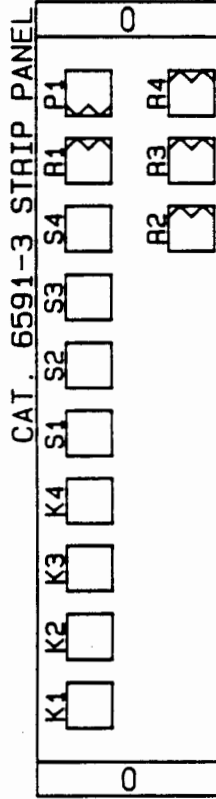
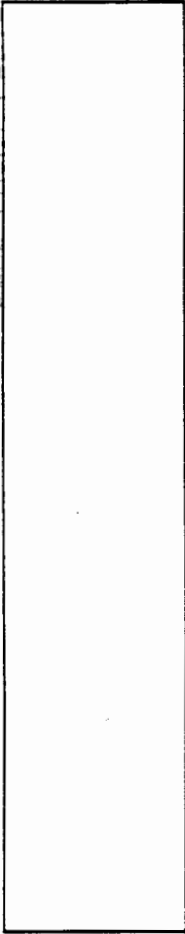
format **B**
 102-1526
 no. de dessin
 drwg. no.



102-1526

nom de projet	proj. no.	titre		SHEMATIC FOR 6525-B AUX. DELAY CIRCUIT	
design de réf.	prop. no.	par SA	ch. app.	date	APRIL 1/57
ref. drwg.	design de réf.	by	ver.	format	B
EDWARDS	G's	tol. sauf spécific. contraire: ± 0.15		no. de dessin	102-1526
		tol. unless otherwise specified: decimals ± 0.15		drwg. no.	
				scale	1/4

DEAD FRONT PLATE



INSTALLATION

CUSTOMER INSTALLATION TO THIS PANEL IS NOT REQUIRED.

OPERATION

THIS PANEL PROVIDES FOUR CROSS ZONING CIRCUITS REQUIRING THE USE OF A PROGRAMMING MATRIX. ANY ONE CROSS ZONING CIRCUIT CAN BE PROGRAMMED TO ANY GIVEN NUMBER OF ALARM INITIATING CIRCUITS. HOWEVER, TWO OR MORE OF THESE ALARM INITIATING CIRCUITS MUST BE IN ALARM BEFORE THE CROSS ZONING PANEL WILL ACTIVATE THE HALON DISCHARGE UNIT.

THIS PANEL IS ALSO PROVIDED WITH HALON DISCHARGE ABORT CIRCUITRY FOR USE WITH REMOTE ABORT SWITCHES. THESE SWITCHES WILL NORMALLY BE WIRED TO A 6591-6 PANEL.

SEE THE DRAWING OF THE PANEL USED FOR ABORT SWITCH DETAILS.

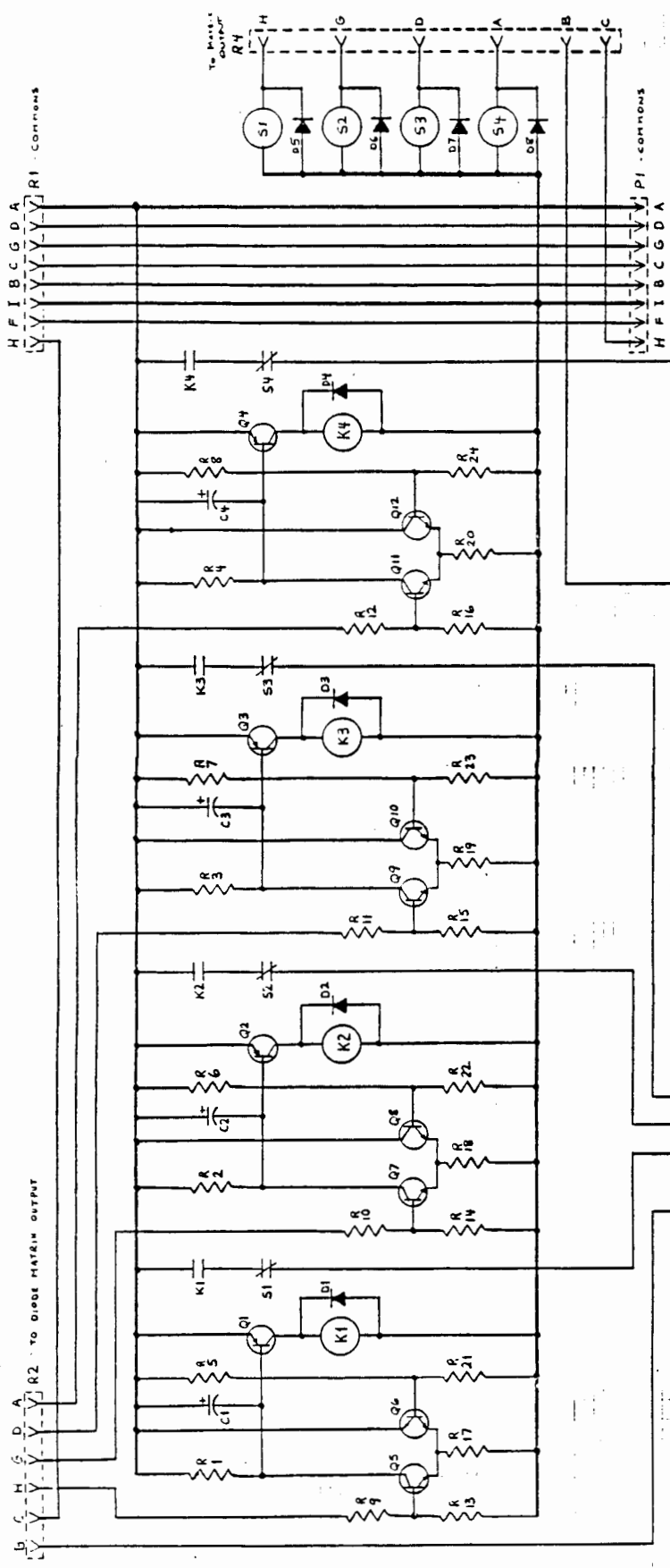
TITLE CUSTOMER DWG. 6591-3, CROSS ZONING PANEL C/W ABORT FUNCTION.

UNE FILIALE DE GENERAL SIGNAL
A UNIT OF GENERAL SIGNAL

EDWARDS

PAR (K.R.)	BY	VER	CH	APP	DATE	04/28/75	ECHELLE	SCALE
TOL. SAUF SPECIFIE CONTRAIRE +/- .5mm	DECIMAUX +/- .015	FRACTIONS +/- 1/32	DECIMAUX +/- .015	FRACTIONS +/- 1/32	DATE	04/28/75	ECHELLE	SCALE
TOL. UNLESS OTHERWISE SPECIFIED	DECIMAUX +/- .015	FRACTIONS +/- 1/32	DECIMAUX +/- .015	FRACTIONS +/- 1/32	DATE	04/28/75	ECHELLE	SCALE
					FORMAT	A	SIZE	
					EDITION	3	ISSUE	
					NO. DU DESSIN	6591-0003	DWG. NO.	
					NO. DU DESSIN	6591-0003	DWG. NO.	

102-395
NO. OF PARTS: 100



LEGEND

Q1 - Q4	2N366 TRANSISTOR
Q5 - Q12	D855 TRANSISTOR
R1 - R4	15K 1/2W RESISTOR
R5 - R8	15K 1/2W RESISTOR
R9 - R12	680Ω 1/2W RESISTOR
R13 - R16	10K 1/2W RESISTOR
R17 - R24	100Ω 1/2W RESISTOR
C1 - C4	100μF 3V CAPACITOR
D1 - D8	1N4004 DIODE

SEQUENCE OF OPERATION

IF ANY ONE OF INPUTS 5, 6, 7, AND 8 GO HIGH ANY TWO OF THESE INPUTS GO HIGH THE CORRESPONDING 6591-3 OUTPUT WILL GO HIGH RELAY OR SIGNAL CIRCUIT TO OPERATE A

NOTE: LIMIT INPUT TO DRIVING TWO RELAYS - 0.80 MA.

NOTE: PROGRAMMING WHEN USING A 6591-3 TRANSISTOR WITH A DIODE AND 15K 1/2W RESISTOR IN SERIES AS SHOWN.

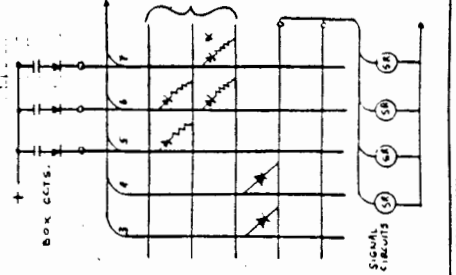
REV	DATE	BY	CHKD	APP
2	2/70	WJ	WJ	
1	4/68	WJ	WJ	

PF 015FD
REMARKS

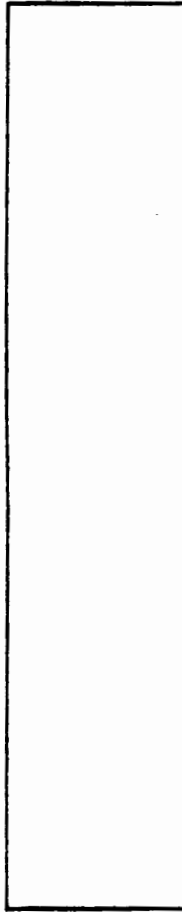
EDWARDS
NO. 100
SCHEMATIC FOR HILOM CROSS-ZONING P.C. 00. 2591-3
C/W ABOUT FUNCTION V/O 6500

MINIMUM TEST FREQUENCY = 815
FREQUENCY = 300
MINIMUM TEST FREQUENCY SPECIFIC FREQUENCIES = 1/33
FREQUENCIES = 0.18

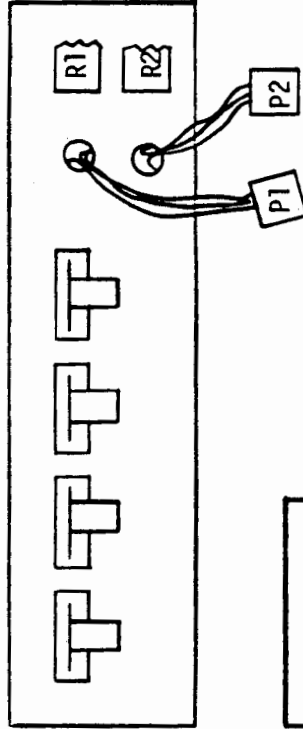
102-395
NO. OF PARTS: 100



DEAD FRONT PANEL



CAT. 6591-7



APPROXIMATELY
— 5 SECONDS
— APPROXIMATELY
5 MINUTES

6514-2

CUSTOMER INSTALLATION

THIS PANEL IS PROVIDED WITH 6514-2 TIME LIMIT CUTOFF MODULES. THE TIME DELAY IN THE CONTROLLED CIRCUIT IS DETERMINED BY THE POTENTIOMETER SETTING ON THE INDIVIDUAL 6514-2 MODULE. THIS TIME IS ADJUSTABLE FROM 5 SECONDS TO 5 MINUTES.

OPERATION

THIS PANEL PROVIDES A TIME DELAY ON ALARM TO OPERATE HALON DISCHARGE CIRCUITS. EACH TIME DELAY MODULE CAN BE PROGRAMMED TO ANY NUMBER OF SPECIFIED ALARM RECEIVING CIRCUITS.

THE OUTPUT OF EACH MODULE CAN OPERATE ONLY ONE HALON DISCHARGE CIRCUIT.

NOTE:

UPON EXPIRING OF THE PRE-SET TIME ON ANY ONE OF THE TIME DELAY MODULES IN THIS PANEL, THE ALARM SIGNALS WILL BE RE-ACTIVATED, IF THEY HAD PREVIOUSLY BEEN SILENCED.

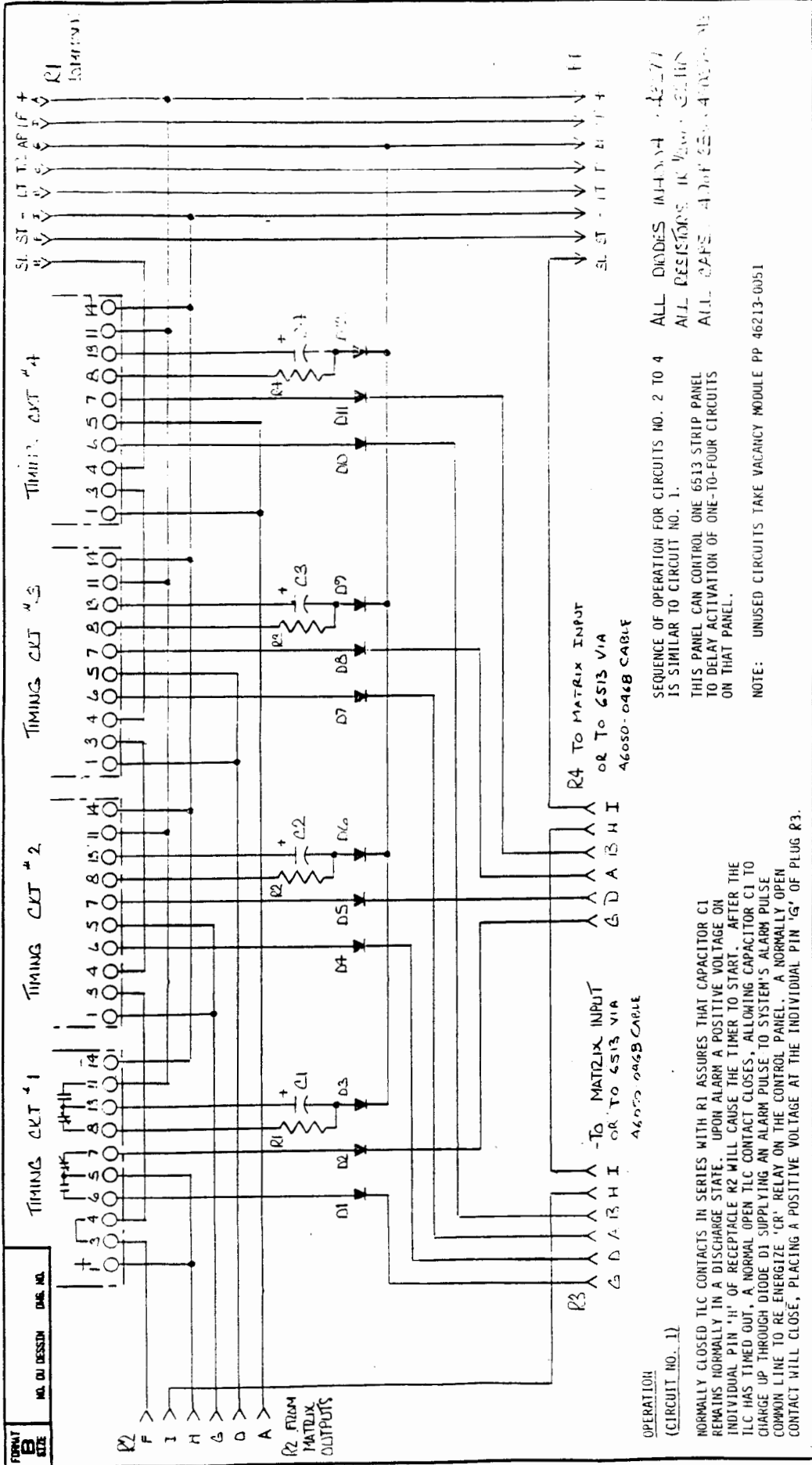
CUSTOMER DRAWING FOR CAT. 6591-7 TIME DELAY PANEL



EDWARDS

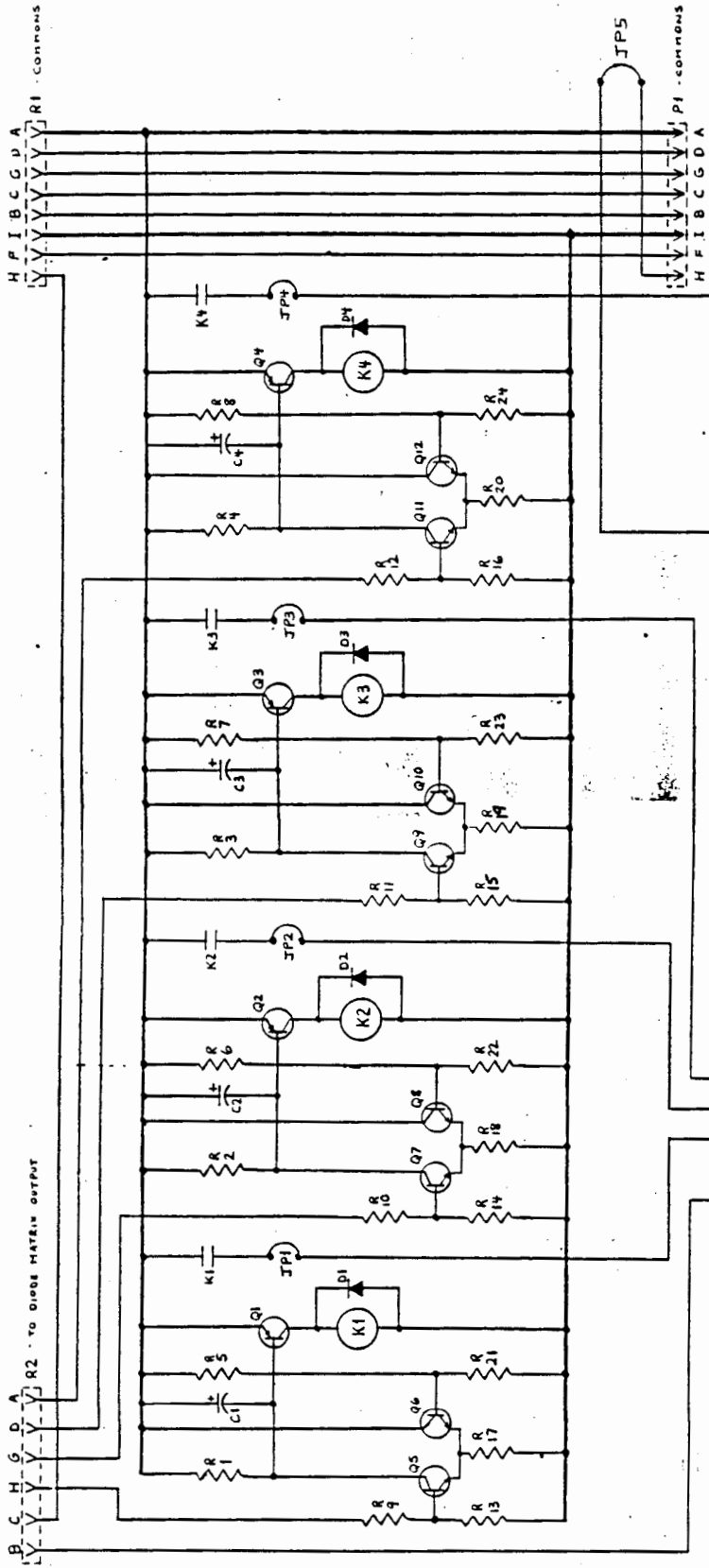
A UNIT OF GENERAL SIGNAL LIMITED
UNE FILIALE DE GENERAL SIGNAL LIMITEE

by B.H. par ch. <i>ML</i> ver. app.	date JULY 17/78	scale	échéance
tol. unless otherwise specified: decimals .015 ± .5 mm fractions 1/32	size A	P.P. 6591 - 7	issue E
tol. sauf spécifié contraire: décimaux .015	format	dwg. no. du dessin	édition



TITLE WIRINGS FOR 6S91-7 TIME DELAY TUBE		DATE 1/57	EDIBLE 1/	SCALE 1/
PNR FA	BY FA	CH APP	FORM B	EDITION 1
TOL. SAUF SPECIFIC CONTRAIRE 1/2 - 3/8		DECIMALES 1/2 - 1/32	SIZE 202-252	NO. DU DESSIN 202-252
TOL. UNLESS OTHERWISE SPECIFIED		DECIMALES 1/2 - 1/32	NO. DU DESSIN 202-252	NO. DU DESSIN 202-252
NOM DU PROJET JOB NAME	PROP. NO.	FINI FINISH MATERIAL		
UN UTILISE DE NORMAL SIGNAL A UNSET OF NORMAL SIGNAL	DESSIN OU REF. REF. DAE.	EDWARDS		

102-1552
REV. 10/60



TO R3 OF PANEL 6591-13

FOR 2 OF PANEL 6594-3

DIODE MATRIX

* DIODE IN SERIES WITH 22K 1/2W. RES.

LEGEND

Q1 - Q4	2N2366 TRANSISTOR
R1 - R4	0.0565 TRANSISTOR
R5 - R8	224 1/2W. RESISTOR
R9 - R12	15K 1/2W. " "
R13 - R16	680Ω 1/2W. " "
R17 - R20	10K 1/2W. " "
R21 - R24	1000UF 3V CAPACITOR
D1 - D2	1N4004 DIODE
D3 - D4	0.01A 1/2W. DIODE

SEQUENCE OF OPERATION

IF ANY ONE OF INPUTS E, W, Y, AND G GO HIGH THEY GO HIGH IN THESE ORDER: W, Y, E, G. CORRESPONDING '591' OUTPUT WILL GO HIGH AND CAN BE PROGRAMMED TO OPERATE A RELAY OR SIGNAL CIRCUIT.

NOTE: LIMIT INPUT TO DRIVING TWO RELAYS - 0.80 MA.

NOTE: PROGRAMMING WHEN USING A 6591-13 IS THE SAME AS USING A DIODE AND 22K 1/2W. RESISTOR IN SERIES AS SHOWN.

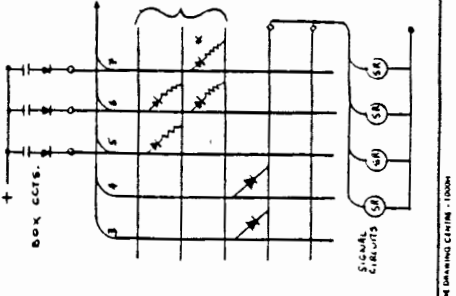
REVISED	DATE	BY	REMARKS
2	10/60	PH	REVISED
1		PH	REVISED
1		PH	REVISED

EDWARDS
100 W. 10th

SCHEMATIC FOR FLEXIBLE CROSS-ZONING P.C. (O. 45-71-13)

DATE	10/60	BY	PH
DATE	10/60	BY	PH
DATE	10/60	BY	PH

102-1552
REV. 10/60





EDWARDS
GENERAL SIGNAL
OWEN SOUND, ONT. N4K 5P8

INTERNAL WIRING CHART (RACK-UP) FOR 6500 MARK II FIRE ALARM CONTROL PANEL

ISSUE NO. _____
S.O. NO. _____
U.L.C. NO. _____

PROP. NUMBER _____
ITEM NO. _____
JOB NAME _____

INTERCONNECTION CHART FOR:
- 6500 SERIES FIRE ALARM

QTY	DESCRIPTION	QTY	DESCRIPTION
	BOX CAT. 6537-A		RAILS P.P. 46082-
	BOX CAT. 6537-A		RAILS P.P. 46082-
	BOX CAT. 65 -		RAILS P.P. 46082-
	DOOR CAT. 6537-A		RAILS P.P. 46082-
	DOOR CAT. 6537-C		CARTON P.P. 46195-
	DOOR CAT. 65 -		CARTON P.P. 46195-
	TRIM CAT. 6538-A		

MANUAL : PP46000-

SEQUENCE OF OPERATION : _____
ASSEMBLY DRAWING : _____
DIODE MATRIX : _____
BLOCK DIAGRAM : _____

SUPV. CURRENT _____ AMPS
ALARM CURRENT _____ AMPS
(CONTROL)
SIGNAL LOAD _____ AMPS A.C.
_____ AMPS D.C.

TOTAL SYSTEM _____ AMPS D.C.

DRAWN BY _____
DATE _____
REVISED BY _____
DATE OF REV. _____
REVISED BY _____
DATE OF REV. _____
REVISED BY _____
DATE OF REV. _____
REVISED BY _____
DATE OF REV. _____

DRAWINGS FOR SHOP

DRAWINGS SENT TO CUSTOMER

DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW
 PORTE: CADRAN EN ACIER AVEC FENETRE DE PLEXIGLAS

FRONT PLATES: BEIGE
 PLAQUES AVANT: BEIGE
 FLUSH TRIM: BEIGE
 ENCADREMENT A FLEUR DU MUR: BEIGE

WALLBOX: SADDLE TAN
 BOITE MURALE: TAN DE SELLE

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE
 RECOMMENDED.

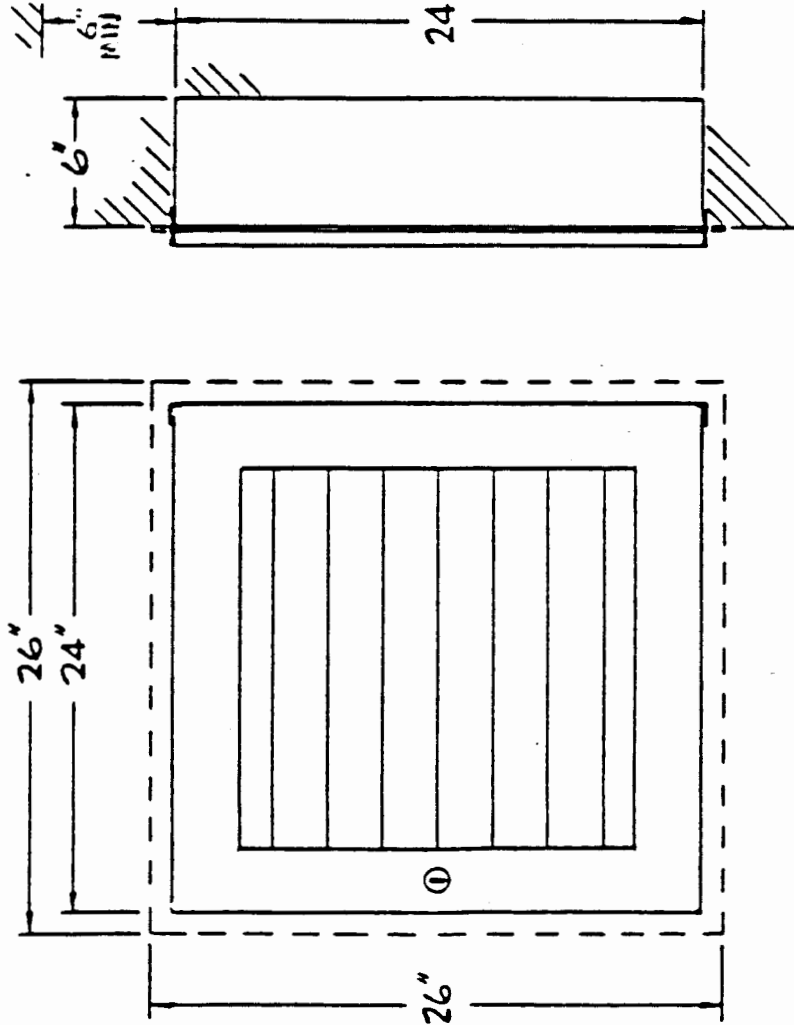
ENTREE DES CONDUITS: PAR LE HAUT OU SUR LES
 COTES. IL EST CONSEILLE
 D'UTILISER LE COTE GAUCHE.

SURFACE: CABINET 24 X 24 X 6
 WALLBOX 24 X 24 X 6
 EN SAILLIE: COFFRET 24 X 24 X 6
 BOITE MURALE 24 X 24 X 6

FLUSH: CABINET 26 X 26 X 6
 WALLBOX 24 X 24 X 6
 ENCASTRE: COFFRET 26 X 26 X 6
 BOITE MURALE 24 X 24 X 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
 NOMBRE DE CIRCUITS DE RECEPTION D'ALARME _____

NUMBER OF SIGNAL CIRCUITS _____
 NOMBRE DE CIRCUITS DE SIGNALISATION _____
 NUMBER OF GENERAL ALARM CIRCUITS _____
 NOMBRE DE CIRCUITS D'ALARME GENERALE _____

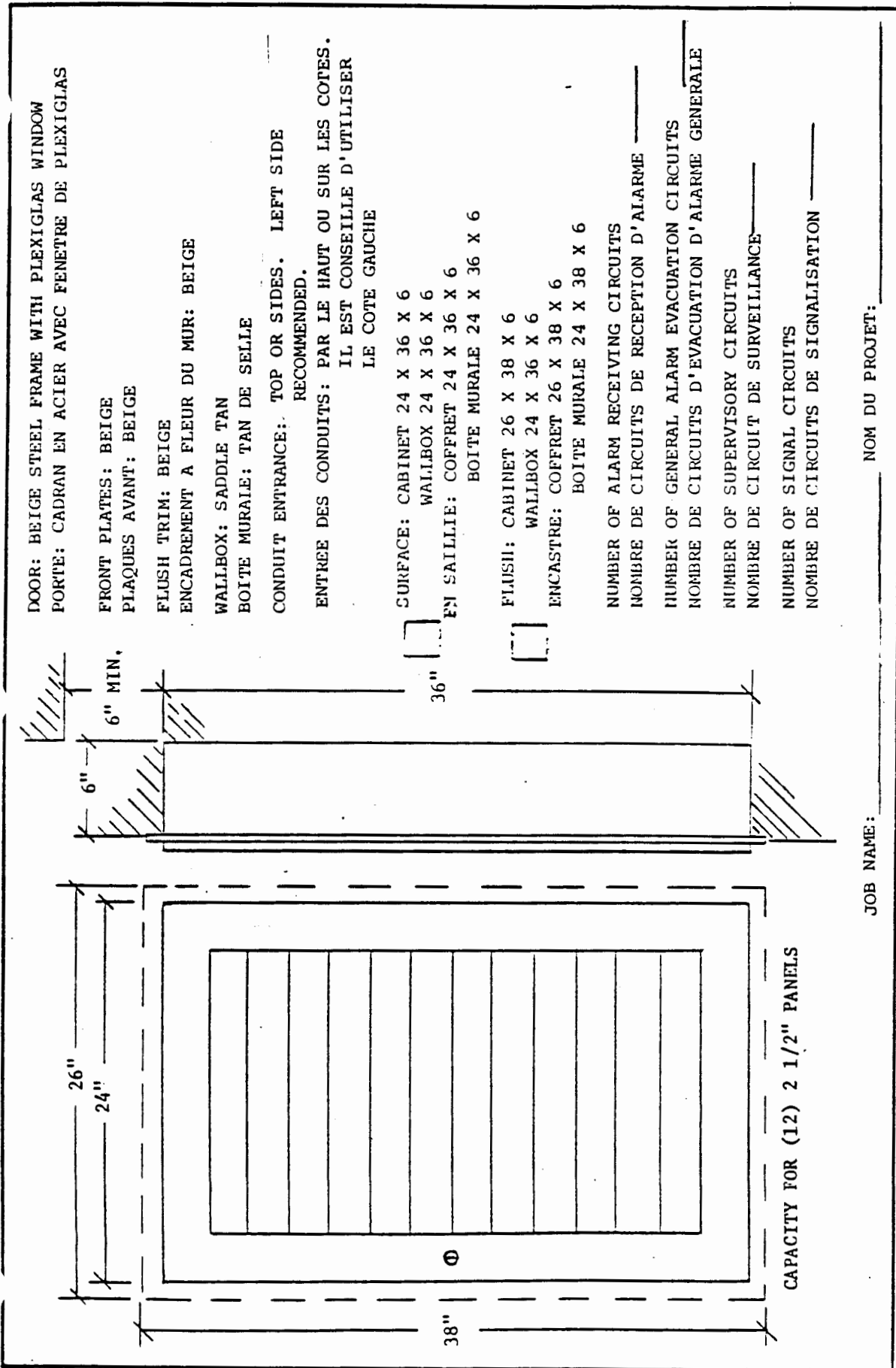


NUMBER OF SUPERVISORY CIRCUITS _____
 NOMBRE DE CIRCUITS DE SURVEILLANCE _____

JOB NAME: _____
 NOM DU PROJET: _____

title
 titre

by _____		date _____		scale _____		échelle _____	
by _____		date _____		scale _____		échelle _____	
tel unless otherwise specified: tel sauf spécifié contraire:		decimals 0/5 fractions 1/32 décimaux 0/5		size A		issue	
EDWARDS OF CANADA		A UNIT OF GENERAL SIGNAL OF CANADA LTD		PROJ. NO.		édition	



TITRE TITLE		PAR		BY	VER	CH	APP	DATE	ECELLE	SCALE
UNE FILIALE DE GENERAL SIGNAL A UNIT OF GENERAL SIGNAL		TOL. SAUF SPECIFIE CONTRAIRE +/- .5mm					DECIMAUX +/- .015 FRACTIONS +/- 1/32	FORMAT A		EDITION
EDWARDS		TOL. UNLESS OTHERWISE SPECIFIED					DECIMALS +/- .015	SIZE		ISSUE

PROJ. NR

DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW
 PORTE: CADRAN EN ACTIER AVEC FENETRE DE PLEXIGLAS

FRONT PLATES: BEIGE
 PLAQUES AVANT: BEIGE

FLUSH TRIM: BEIGE
 ENCADREMENT A FLEUR DU MUR: BEIGE

WALL BOX: SADDLE TAN
 BOITTE MURALE: TAN DE SELLE

CONDUIT ENTRANCE: TOP OR SIDES, LEFT SIDE RECOMMENDED.
 ENTREE DES CONDUITS: PAR LE HAUT OU SUR LES COTES. IL EST CONSEILLE
 D'UTILISER LE COTE GAUCHE.

- SURFACE: CABINET 48 X 24 X 6; WALLBOX 48 X 24 X 6
- EN SAILLIE: COFFRET 48 X 24 X 6; BOITTE MURALE 48 X 24 X 6
- FLUSH: CABINET 50 X 26 X 6; WALLBOX 48 X 24 X 6
- ENCASTRE: COFFRET 50 X 26 X 6; BOITTE MURALE 48 X 24 X 6

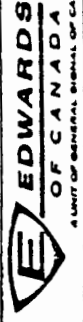
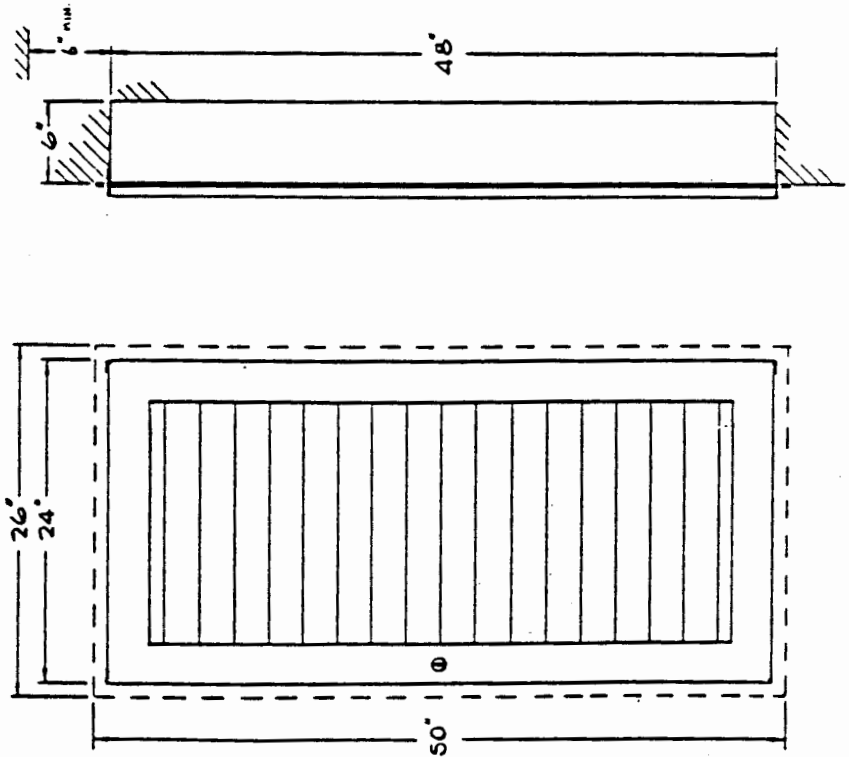
NUMBER OF ALARM RECEIVING CIRCUITS
 NOMBRE DE CIRCUITS DE RECEPTION D'ALARME _____

NUMBER OF GENERAL, ALARM EVACUATION CIRCUITS
 NOMBRE DE CIRCUITS D'EVACUATION D'ALARME GENERALE _____

NUMBER OF SUPERVISORY CIRCUITS
 NOMBRE DE CIRCUIT DE SURVEILLANCE _____

NUMBER OF SIGNAL CIRCUITS
 NOMBRE DE CIRCUITS DE SIGNALISATION _____

JOB NAME: _____
 NOM DU PROJET: _____



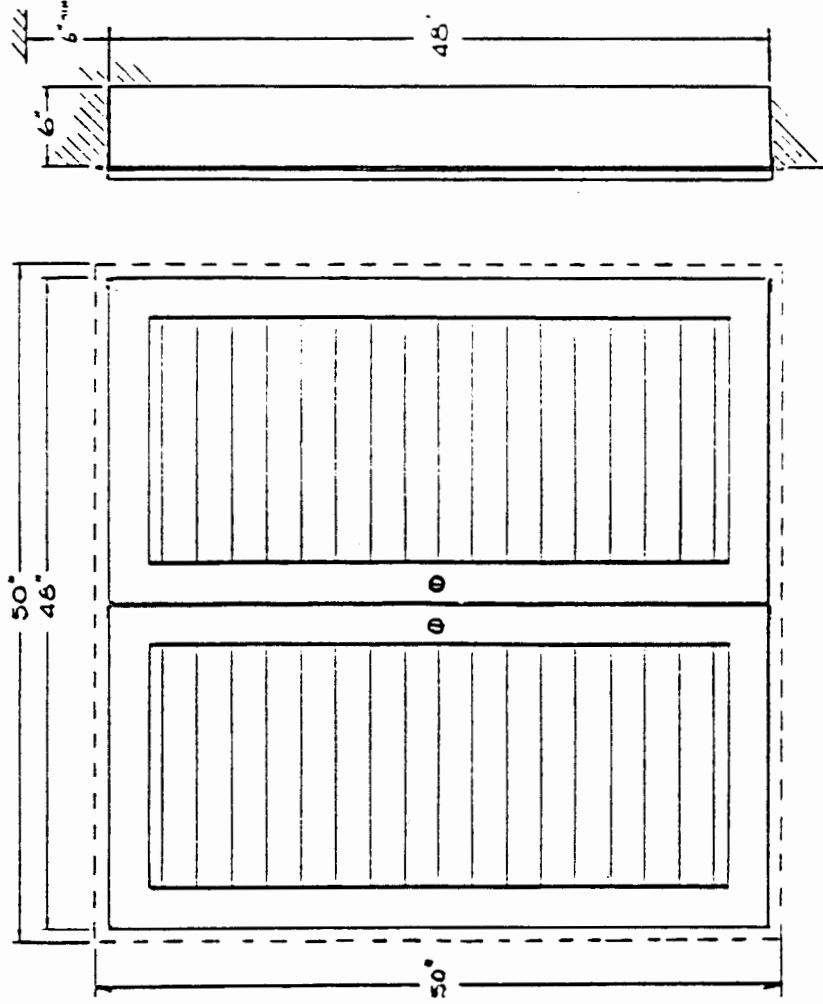
title title

6500 MARK II FIRE ALARM CABINET
 COFFRET D'ALARME 6500 MARK II

tolerance unless otherwise specified decimales: 015

FORMAT
A

PRCP. NO.



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW
PORTE: CADRAN EN ACIER AVEC FENETRE DE PLEXIGLAS

FRONT PLATES: BEIGE
PLAQUES AVANT: BEIGE

FLUSH TRIM: BEIGE
ENCADREMENT A FLEUR DU MUR: BEIGE

WALL BOX: SADDLE TAN
BOITTE MURALE: TAN DE SELLE

CONDUIT ENTRANCE: TOP OR SIDES, LEFT SIDE RECOMMENDED.
ENTREE DES CONDUITS: PAR LE HAUT OU SUR LES COTES. IL EST
CONSEILLE D'UTILISER LE COTE GAUCHE.

- SURFACE: CABINET 48 X 48 X 6; WALL BOX 48 X 48 X 6
EN SAILLIE: COFFRET 48 X 48 X 6; BOITTE MURALE 48 X 48 X 6
- FLUSH: CABINET 50 X 50 X 6; WALL BOX 48 X 48 X 6
ENCASTRE: COFFRET 50 X 50 X 6; BOITTE MURALE 48 X 48 X 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
 NOMBRE DE CIRCUITS DE RECEPTION D'ALARME _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____
 NOMBRE DE CIRCUITS D'EVACUATION D'ALARME GENERALE _____

NUMBER OF SUPERVISORY CIRCUITS _____
 NOMBRE DE CIRCUIT DE SURVEILLANCE _____

NUMBER OF SIGNAL CIRCUITS _____
 NOMBRE DE CIRCUITS DE SIGNALISATION _____

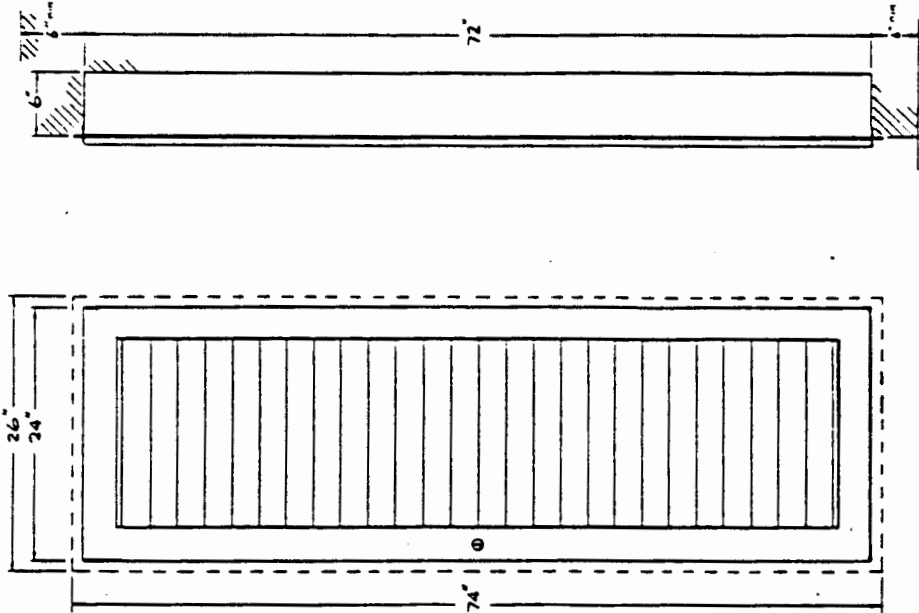
JOB NAME: _____
NUM DU PROJET: _____

EDWARDS
 TITRE

6500 MARK II FIRE ALARM CABINET
COFFRET D'ALARME 6500 MARK II

PAR	DATE	ECHELLE
VEIM.		
APPN.	A	PRCP. NO.
		EDITION

A PROP. 1/2



DOOR: BEIGE STEEL FRAME WITH PLEATED GLASS WINDOW
 PORTE: CADRAN EN ACIER AVEC FENETRE DE PLETEGLAS

FRONT PLATES: BEIGE
 PLAQUES AVANT: BEIGE

FLUSH TRIM: BEIGE
 ENCADREMENT A FLEUR OU MUR: BEIGE

WALL BOX: SADDLE TAN
 BOITIE MURALE: TAN DE SELLE

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED.
 ENTREE DES CONDUITS: PAR LE HAUT OU SUR LES COTES. IL EST CONSEILLE
 D'UTILISER LE COTE GAUCHE.

SURFACE: CABINET 72 X 24 X 6; WALLBOX 72 X 24 X 6
 EN SALLEE: COFFRET 72 X 24 X 6; BOITIE MURALE 72 X 24 X 6

FLUSH: CABINET 74 X 24 X 6; WALLBOX 72 X 24 X 6
 ENCASTRE: COFFRET 74 X 24 X 6; BOITIE MURALE 72 X 24 X 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
 NOMBRE DE CIRCUITS DE RECEPTION D'ALARME _____
 NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____
 NOMBRE DE CIRCUITS D'EVACUATION D'ALARME GENERALE _____
 NUMBER OF SUPERVISORY CIRCUITS _____
 NOMBRE DE CIRCUIT DE SURVEILLANCE _____
 NUMBER OF SIGNAL CIRCUITS _____
 NOMBRE DE CIRCUITS DE SIGNALISATION _____

JOB NAME: _____
 NOM DU PROJET: _____

Gs
 U.S. PATENT & GENERAL SIGNAL
 A DIVISION OF GENERAL SIGNAL

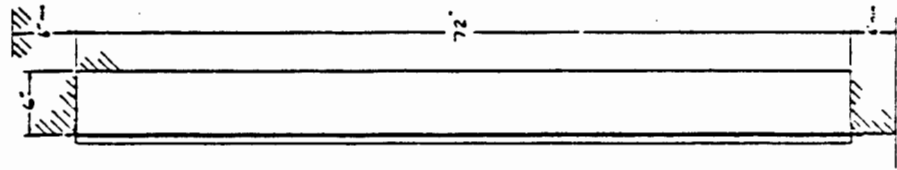
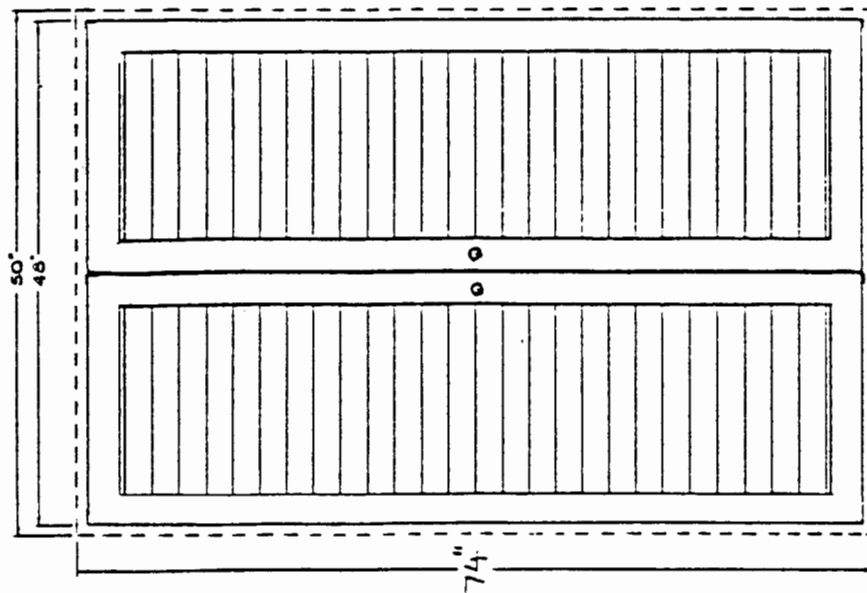
EDWARDS
 SINCE 1888

6500 MARK 11 FIRE ALARM CABINET
COFFRET D'ALARME 6500 MARK 11

Indirizzo sistema allarme specifico: _____
 Indirizzo sede speditrice centrale: _____
 Indirizzo: _____
 Città: _____
 Prov.: _____
 Tel.: _____
 Fax: _____

APP. _____
 PROSP. N. 18

PROJ. N°



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW
 PORTE: CADRAN EN ACIER AVEC FENETRE DE PLEXIGLAS

FRONT PLATES: BEIGE
 PLAQUES AVANT: BEIGE

FLUSH TRIM: BEIGE
 ENCADREMENT A FLEUR DU MUR: BEIGE

WALLBOX: SADDLE TAN
 BOITE MURALE: TAN DE SELLE

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED.
 ENTREE DES CONDUITS: PAR LE HAUT OU SUR LES COTES. IL EST
 CONSEILLE D'UTILISER LE COTE GAUCHE.

- SURFACE: CABINET 72 X 40 X 6; WALLBOX 72 X 40 X 6
 EN WALLBOX: COFFRET 72 X 40 X 6; BOITE MURALE 72 X 40 X 6
- FLUSH: CABINET 74 X 50 X 6; WALLBOX 72 X 40 X 6
 ENCASTRE: COFFRET 74 X 50 X 6; BOITE MURALE 72 X 40 X 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
 NOMBRE DE CIRCUITS DE RECEPTION D'ALARME _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____
 NOMBRE DE CIRCUITS D'EVACUATION D'ALARME GENERALE _____

NUMBER OF SUPERVISORY CIRCUITS _____
 NOMBRE DE CIRCUIT DE SURVEILLANCE _____

NUMBER OF SIGNAL CIRCUITS _____
 NOMBRE DE CIRCUITS DE SIGNALISATION _____

JOB NAME: _____

NO. DU PROJET: _____

Gs

EDWARDS

Title Title

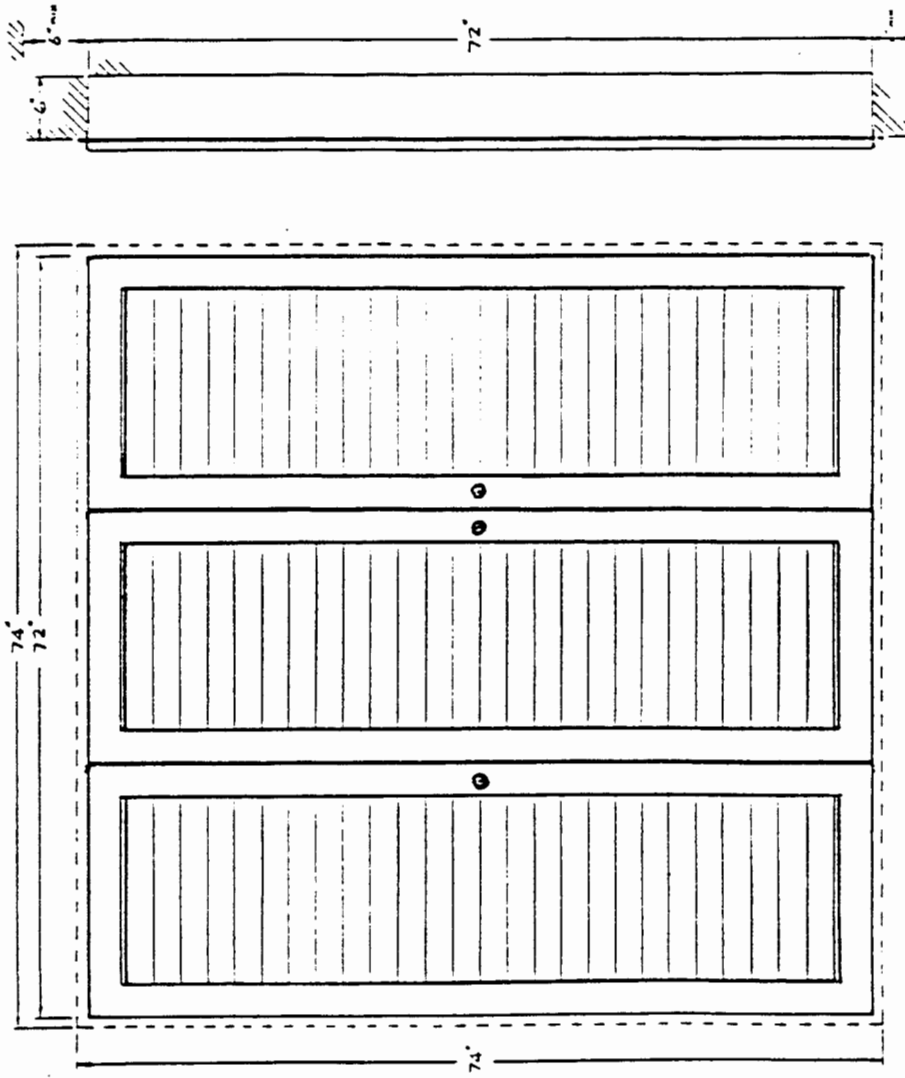
6500 MARK II FIRE ALARM CABINET
 COFFRET D'ALARME 6500 MARK II

Approved By: _____
 Date: _____
 Checked By: _____
 Date: _____

PROJ. N°

100
A

PROP. 148



DOOR, BEIGE STEEL FRAME WITH PIERCEGLAS WINDOW.
PORTE, CHROMÉ EN ACIER AVEC FENÊTRE DE PIERCEGLAS

FRONT PLATES, BEIGE
PLAQUES AVANT, BEIGE

FLUSH TRIM, BEIGE
ENCADREMENT À FLEUR DU MOR, BEIGE

WALLBOX, SADDLE TAN
BOÎTE MURALE, TAN DE SELLE

CONDUIT ENTRANCE, TOP OR SIDE, LEFT SIDE RECOMMENDED.
ENTRÉE DES CONDUITS, PAR LE HAUT OU SUR LES CÔTÉS. IL EST
CONSEILLÉ D'UTILISER LE CÔTÉ GAUCHE.

SURFACE, CABINET 72 X 72 X 6; WALLBOX 72 X 72 X 6
EN SAILLIE; COFFRET 72 X 72 X 6; BOÎTE MURALE 72 X 72 X 6

FLUSH, CABINET 74 X 74 X 6; WALLBOX 74 X 74 X 6
ENCASTRE; COFFRET 74 X 74 X 6; BOÎTE MURALE 74 X 74 X 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
NOMBRE DE CIRCUITS DE RÉCEPTION D'ALARME _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____
NOMBRE DE CIRCUITS D'ÉVACUATION D'ALARME GÉNÉRALE _____

NUMBER OF SUPERVISORY CIRCUITS _____
NOMBRE DE CIRCUITS DE SURVEILLANCE _____

NUMBER OF SIGNAL CIRCUITS _____
NOMBRE DE CIRCUITS DE SIGNALISATION _____

JOB NAME: _____

NOM DU PROJET: _____

U.S. BUREAU OF GENERAL INVESTIGATION
Gs

EDWARD B

1110 1110

**6500 MARK II FIRE ALARM CABINET
COFFRET D'ALARME 6500 MARK II**

Issued to: _____	Project No. _____
Issued on: _____	Drawing No. _____
Scale: _____	Sheet No. _____
Part No. _____	Quantity _____
By: _____	Checked by: _____
Date: _____	Approved by: _____
Drawn by: _____	Project Engineer: _____



EDWARDS
A UNIT OF GENERAL SIGNAL
FARMINGTON CT. 06032

INTERNAL WIRING CHART (RACK-UP) FOR 6500 PAGE 1 OF 1
MARK II FIRE ALARM CONTROL PANEL

PROP. NUMBER _____
 ITEM NO. _____
 EDWARDS NO. _____
 JOB NAME _____
 CUSTOMER _____

ISSUE NO. _____
 S.O. NO. _____
 U.L. NO. _____

INTERCONNECTION CHART FOR:
 -6500 SERIES FIRE ALARM

BATTERY TAG : PP46157-0303
 TAG NO. : PP46157-0299
 MANUAL : PP46000-
 OPERATING :
 INSTRUCTIONS : PP46000-038
 SEQUENCE OF OPERATION:

ASSEMBLY DRAWING :
 DIODE MATRIX :
 BLOCK DIAGRAM :

QTY	DESCRIPTION	QTY	DESCRIPTION
	BOX CAT. 6537-A		RAILS P.P. 46082-
	BOX CAT. 6537-A		RAILS P.P. 46082-
	BOX CAT. 65 -		RAILS P.P. 46082-
	DOOR CAT. 6537-A		RAILS P.P. 46082-
	DOOR CAT. 6537-B		CARTON P.P. 46195-
	DOOR CAT. 65 -		CARTON P.P. 46195-
	TRIM CAT. 6538-A		
	LABEL PP8745 - 0004		LABEL PP8745-0003

SUPV. CURRENT _____ AMPS
 ALARM CURRENT _____ AMPS
 (CONTROL)
 SIGNAL LOAD _____ AMPS A.C.
 _____ AMPS D.C.

TOTAL SYSTEM _____ AMPS D.C.

DRAWN BY _____
 DATE _____
 REVISED BY _____
 DATE OF REV. _____
 REVISED BY _____
 DATE OF REV. _____
 REVISED BY _____
 DATE OF REV. _____
 REVISED BY _____
 DATE OF REV. _____

DRAWINGS FOR SHOP

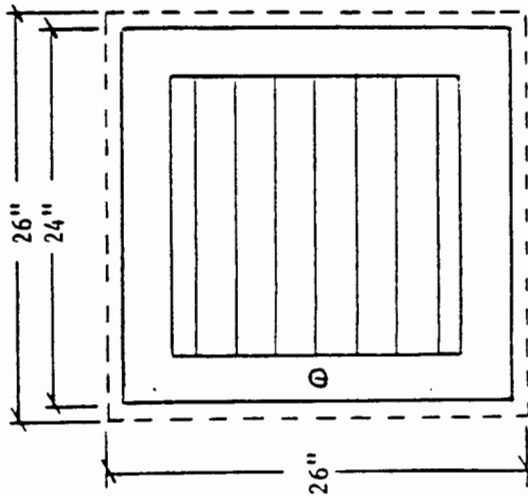
DRAWINGS SENT TO CUSTOMER

PROP. NO. _____ OF _____
CUBICLE _____ OF _____

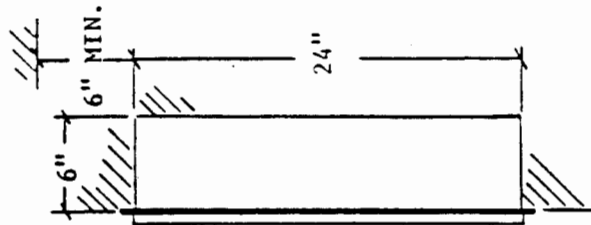
PAGE _____ OF _____
ISSUE: _____
DRAWN BY: _____

LINE	STRIP PANEL	MODULES # (65XX-XX) #46213-0XXX	DEAD FRONT COVER 46001 -	RECEPT.	CABLE/CAP 46050-	TO LINE	CIRCUIT	RECEPT.	CABLE/CAP 46050-	TO LINE	CIRCUIT	RECEPT.	CABLE/CAP 46050-	TO LINE	CIRCUIT	RECEPT.	CABLE/CAP 46050-	TO LINE	CIRCUIT	RECEPT.	CABLE/CAP 46050-	TO LINE	CIRCUIT			
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PROP. NO.
A-



CAPACITY FOR (8) 2 1/2" PANELS



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES.
LEFT SIDE RECOMMENDED.

SURFACE: CABINET 24 x 24 x 6
WALLBOX 24 x 24 x 6

FLUSH: CABINET 26 x 26 x 6
WALLBOX 24 x 24 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION
CIRCUITS _____

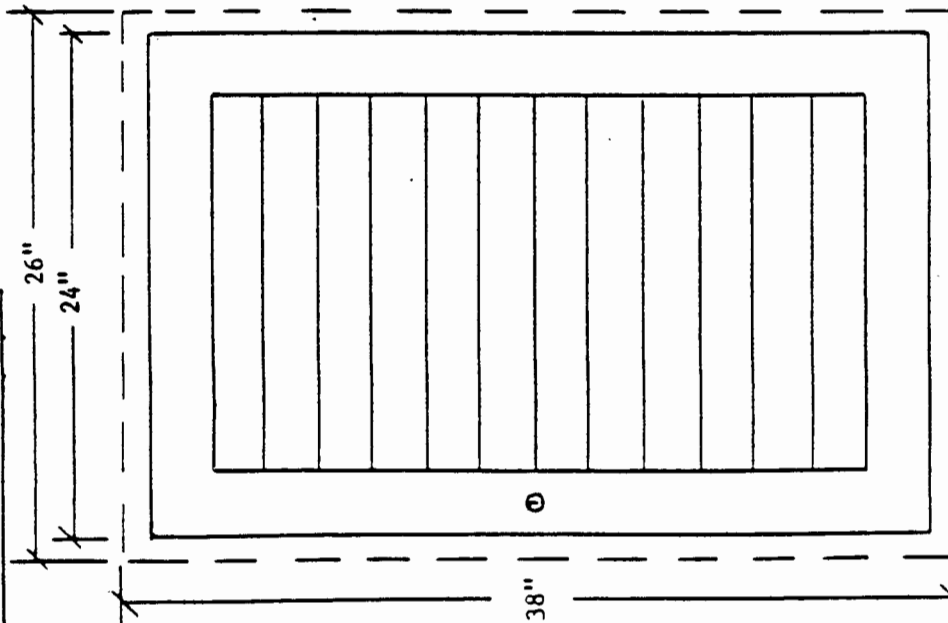
NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS AC DC

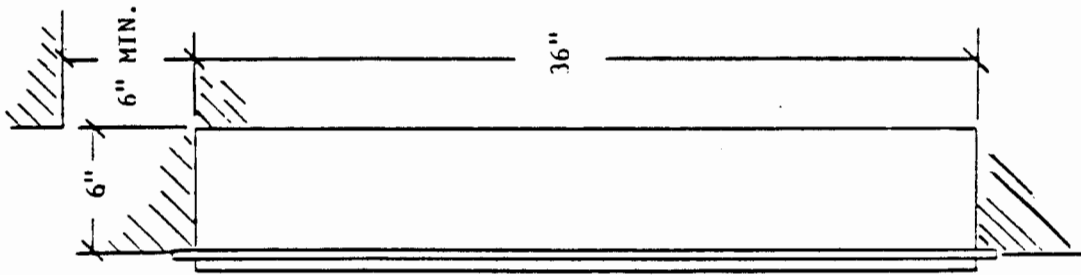
EDWARDS NO: _____
JOB NAME: _____
CUSTOMER: _____
CUSTOMER NO: _____

UNLESS OTHERWISE SPECIFIED		DRFG		GS EDWARDS A UNIT OF GENERAL SIGNAL CORPORATION	
DIMENSIONS ARE IN INCHES		CHKD.		TITLE: 6500 MARK II	
TOLERANCES		ENGR		FIRE ALARM CABINET	
DEC ± .005 FRACTION ± 1/64" ANG ± 1°		APVD		ISSUE	
MATERIAL:		FIRST USED ON:		PROP. NO.	
AS SHOWN				A-	
FINISH:		REF		SCALE 1/2" = 1"	
AS SHOWN				SHEET 01	

PROP. NO.
A-



CAPACITY FOR (12) 2 1/2" PANELS



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES.
LEFT SIDE RECOMMENDED.

SURFACE: CABINET 24 x 36 x 6
WALLBOX 24 x 36 x 6

FLUSH: CABINET 26 x 38 x 6
WALLBOX 24 x 36 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____
NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____
NUMBER OF SIGNAL CIRCUITS AC DC

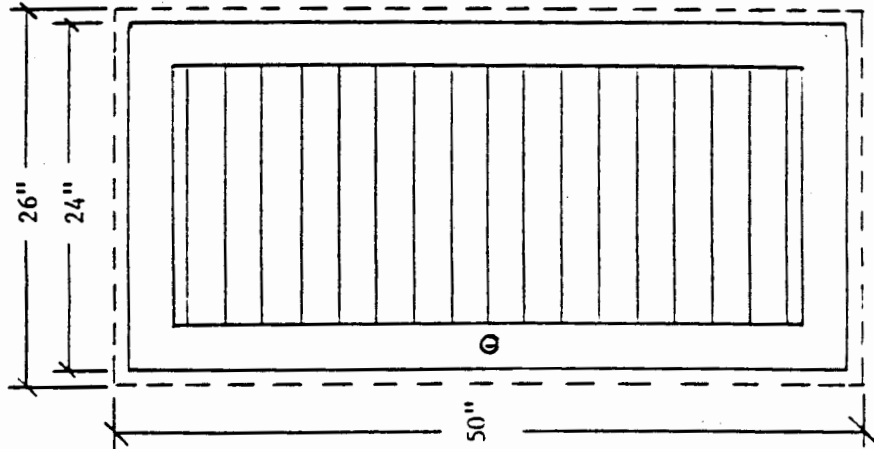
EDWARDS NO: _____
JOB NAME: _____
CUSTOMER: _____
CUSTOMER NO: _____

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
DEC : 005 FRAC : 1/64" ANG : 1°

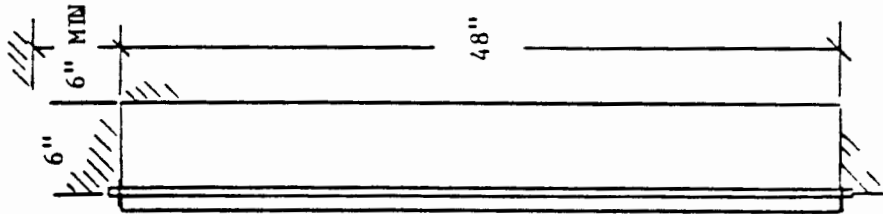
MATERIAL:
AS SHOWN
FINISH:
AS SHOWN

DRFG.		TITLE: 6500 MARK II FIRE ALARM CABINET	SCALE: 1/2" = 1'-0"	SHEET OF
CHKD.				
ENGR.				
APPRD.				
FIRST USED ON	ISSUE			
REF	A-			

PROP. NO.
A-



CAPACITY FOR (16) 2 1/2" PANELS



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT
SIDE RECOMMENDED.

SURFACE: CABINET 48 x 24 x 6
WALLBOX 48 x 24 x 6

FLUSH: CABINET 50 x 26 x 6
WALLBOX 48 x 24 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION
CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

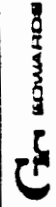
EDWARDS NO: _____

JOB NAME: _____

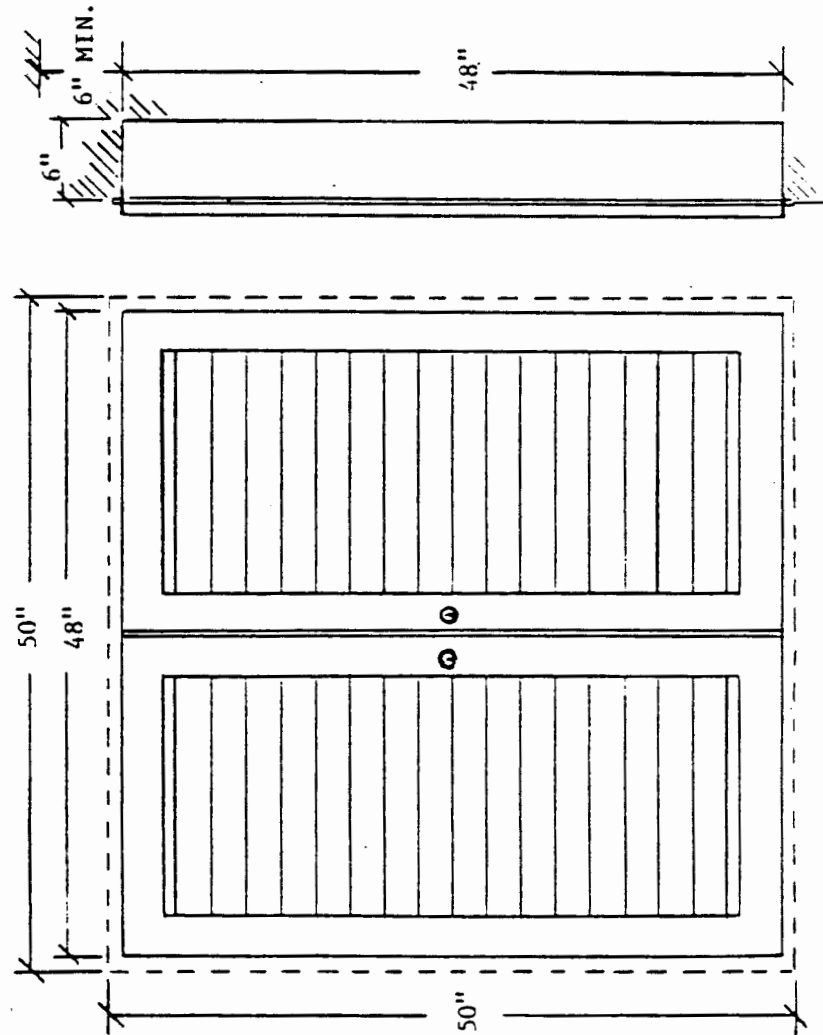
CUSTOMER: _____

CUSTOMER NO: _____

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES



PROP. NO.
A-



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONTPLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED.

SURFACE: CABINET 48 x 48 x 6
WALLBOX 48 x 48 x 6

FLUSH: CABINET 50 x 50 x 6
WALLBOX 48 x 48 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

CAPACITY FOR (32) 2 1/2" PANELS

EDWARDS NO. _____

JOB NAME: _____

CUSTOMER: _____

CUSTOMER NO: _____

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES

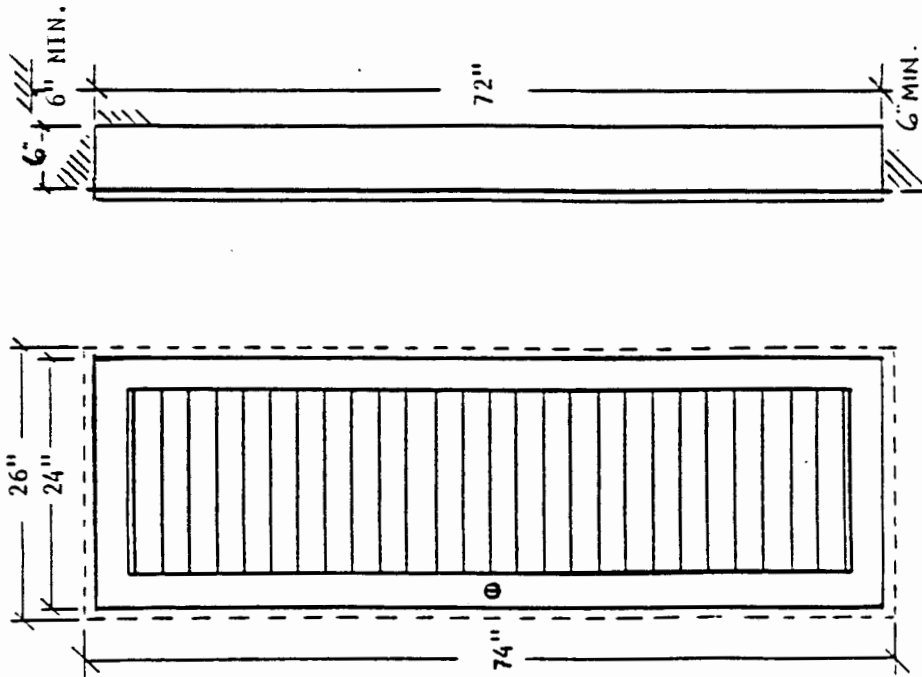
DRFG _____

CHKD. _____

ENGR _____

GS EDWARDS
A UNIT OF GENERAL SIGNAL
CORPORATION

PROP. NO.
A-



CAPACITY FOR (26)
2 1/2" PANELS

DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONT PLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED

SURFACE: CABINET 72 x 24 x 6
WALLBOX 72 x 24 x 6

FLUSH: CABINET 74 x 26 x 6
WALLBOX 72 x 24 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

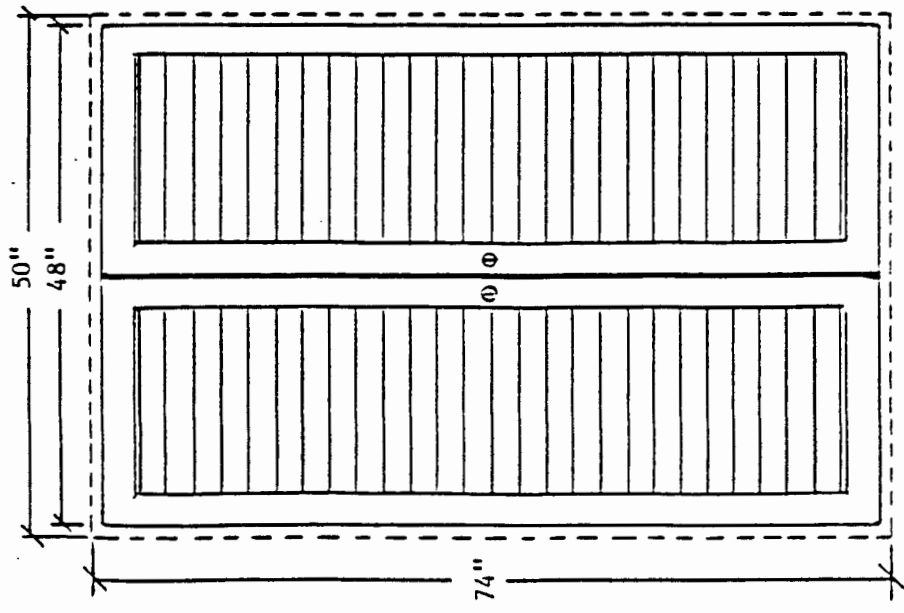
NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

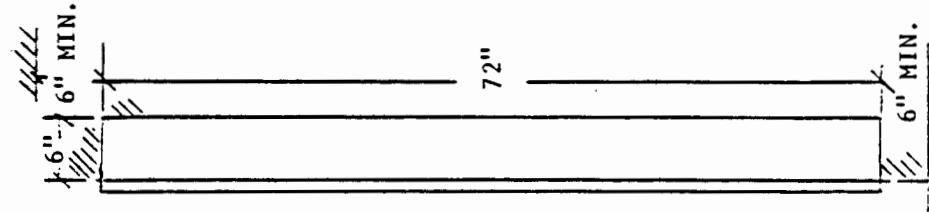
EDWARDS NO. _____
JOB NAME _____
CUSTOMER _____
CUSTOMER NO. _____

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DEC ± .005 FRAC ± 1/64" ANG ± 1°	DREG.	GS EDWARDS A UNIT OF GENERAL SIGNAL
	CHKD.	
MATERIAL: AS SHOWN	ENGR.	TITLE: 6500 MARK II FIRE ALARM CABINET
	APPRD.	PROP. NO. A-
FINISH: AS SHOWN	FIRST USED ON:	ISSUE
	REF.	SCALE 1- OF

PROP. NO.
A-



CAPACITY FOR (52) 2 1/2" PANELS



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONT PLATES: BEIGE

FLUSH TRIM: BEIGE

WALLBOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES. LEFT SIDE RECOMMENDED.

SURFACE: CABINET 72 x 48 x 6
WALLBOX 72 x 48 x 6

FLUSH: CABINET 74 x 50 x 6
WALLBOX 72 x 48 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

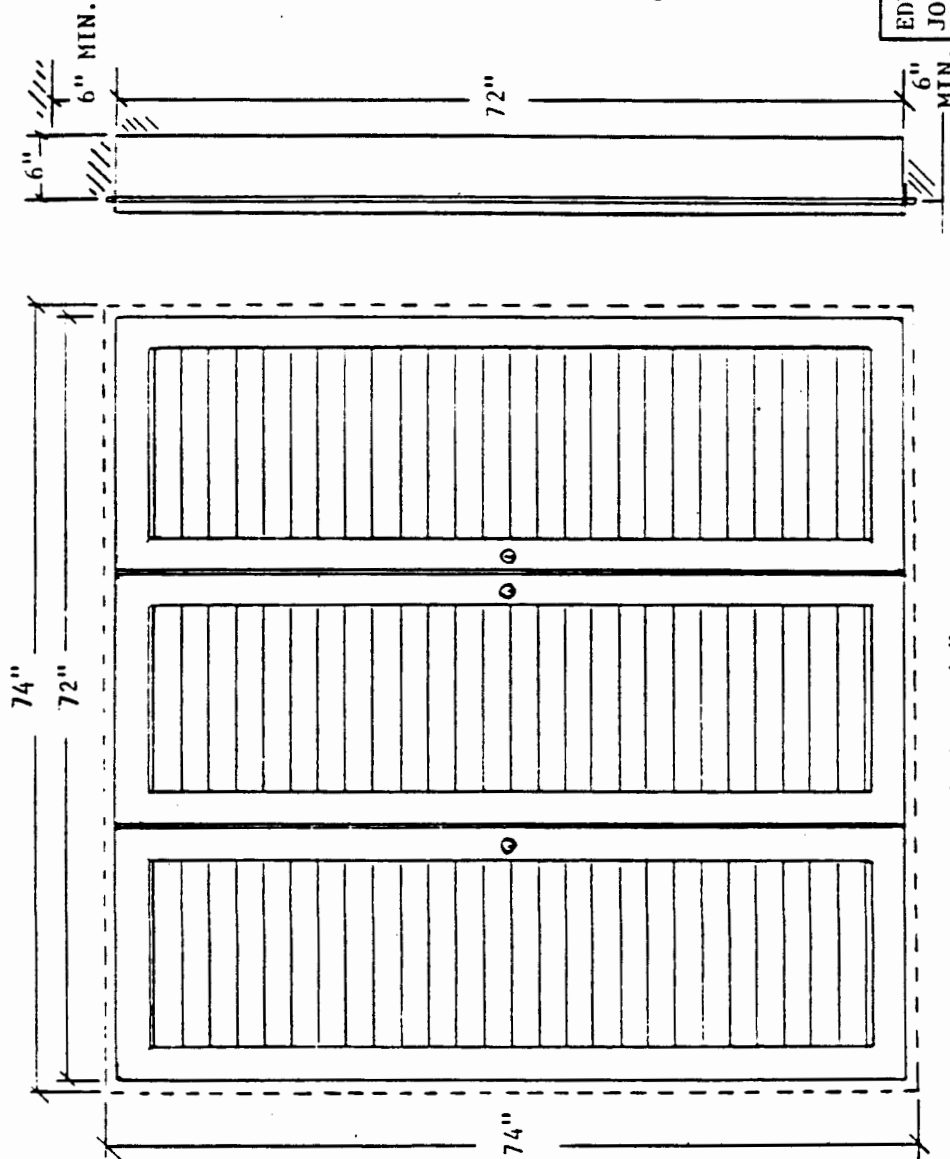
NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS _____ AC _____ DC

EDWARDS NO. _____
JOB NAME _____
CUSTOMER _____
CUSTOMER NO. _____

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DEC. ± .005 FRAC. ± 1/84" ANG. ± 1'		DRFG.		GS EDWARDS A UNIT OF GENERAL SIGNAL Connecticut 06856	
MATERIAL: AS SHOWN		ENGR.		TITLE: 6500 MARK II FIRE ALARM CABINET	
FINISH: AS SHOWN		APPVD.		PROP. NO. A-	
		FIRST USED ON:		SCALE 1/2 OF	
		REF.		ISSUE	

PROP. NO.
A-



DOOR: BEIGE STEEL FRAME WITH PLEXIGLAS WINDOW

FRONT PLATES: BEIGE

FLUSH TRIM: BEIGE

WALL BOX: SADDLE TAN

CONDUIT ENTRANCE: TOP OR SIDES.

LEFT SIDE RECOMMENDED.

SURFACE: CABINET 72 x 72 x 6;
WALLBOX 72 x 72 x 6

FLUSH: CABINET 74 x 74 x 6;
WALLBOX 74 x 74 x 6

NUMBER OF ALARM RECEIVING CIRCUITS _____

NUMBER OF GENERAL ALARM EVACUATION CIRCUITS _____

NUMBER OF SUPERVISORY CIRCUITS _____

NUMBER OF SIGNAL CIRCUITS AC _____ DC _____

EDWARDS NO. _____

JOB NAME _____

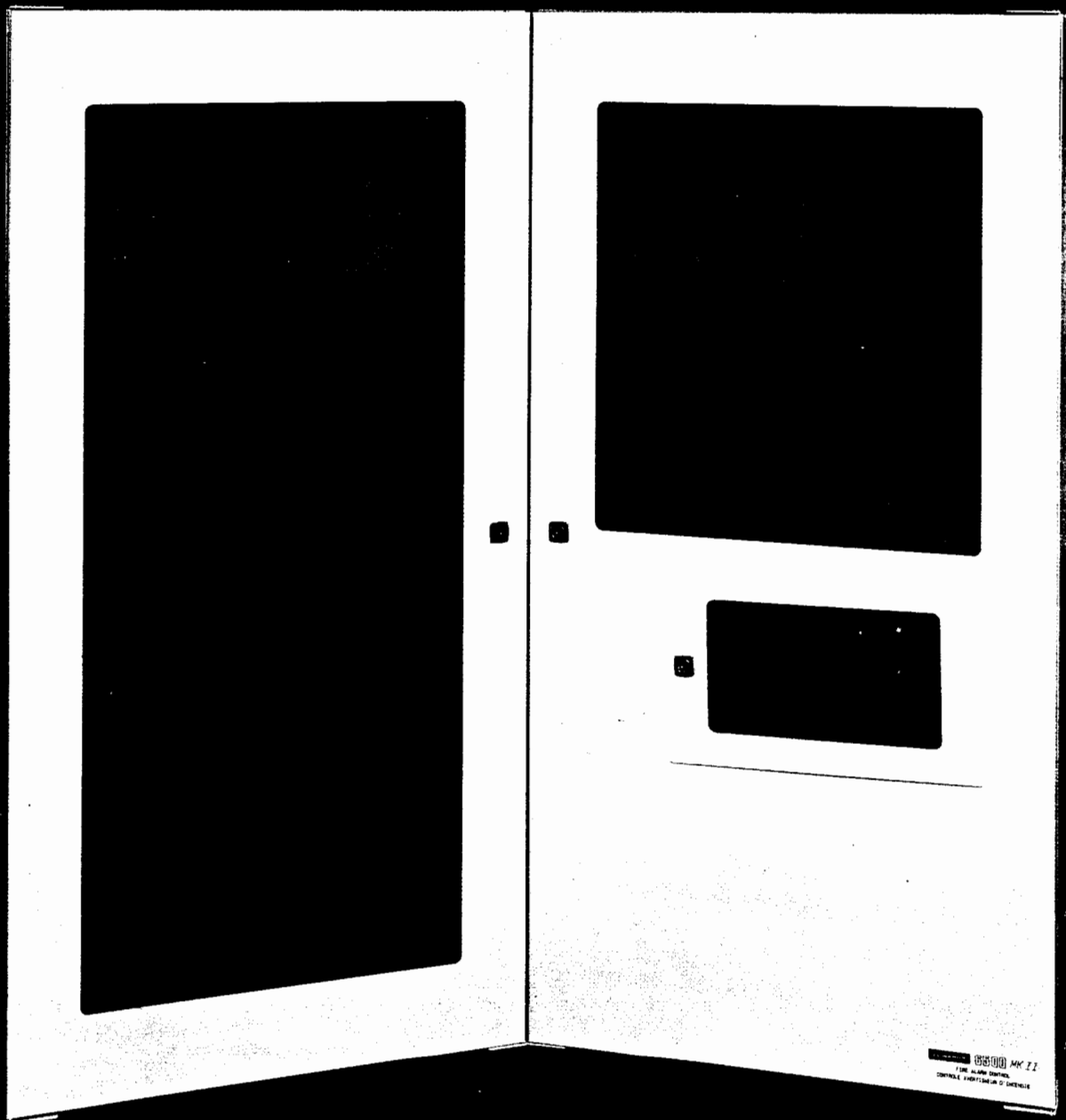
CUSTOMER _____

CUSTOMER NO. _____

CAPACITY FOR (78) 2 1/2" PANELS

UNLESS OTHERWISE SPECIFIED		G.S. EDWARDS A UNIT OF GENERAL SIGNAL	
DIMENSIONS ARE IN INCHES		TITLE: 6500 MARK II	
TOLERANCES		FIRE ALARM CABINET	
DEC: .005 FRACTION: 1/64" ANG: 1°		PROP NO. A-	
MATERIAL:		ISSUE	
AS SHOWN		SCALE	
FINISH:		OF	
AS SHOWN		CUT	
DRFG.	CHKD.	ENGR.	APPVD.
FIRST USED ON:		REF.	

Edwards Fire Control Panel



Proven dependable fire protection.



New common control Mark II more reliable and

The Edwards Custom 6500 Series of Fire Alarm Systems has become an industry benchmark for reliability and performance. The new 6500 Mark II provides reliable and more responsive fire control in alarm system design through its central Common Control panel.

Meet the needs of any building.

Edwards' Custom 6500 MKII is engineered to provide flexibility in fire alarm systems designed to meet the needs of any building. All major functions in the system are contained in separate modules which can be combined according to the specific requirements of the installation.

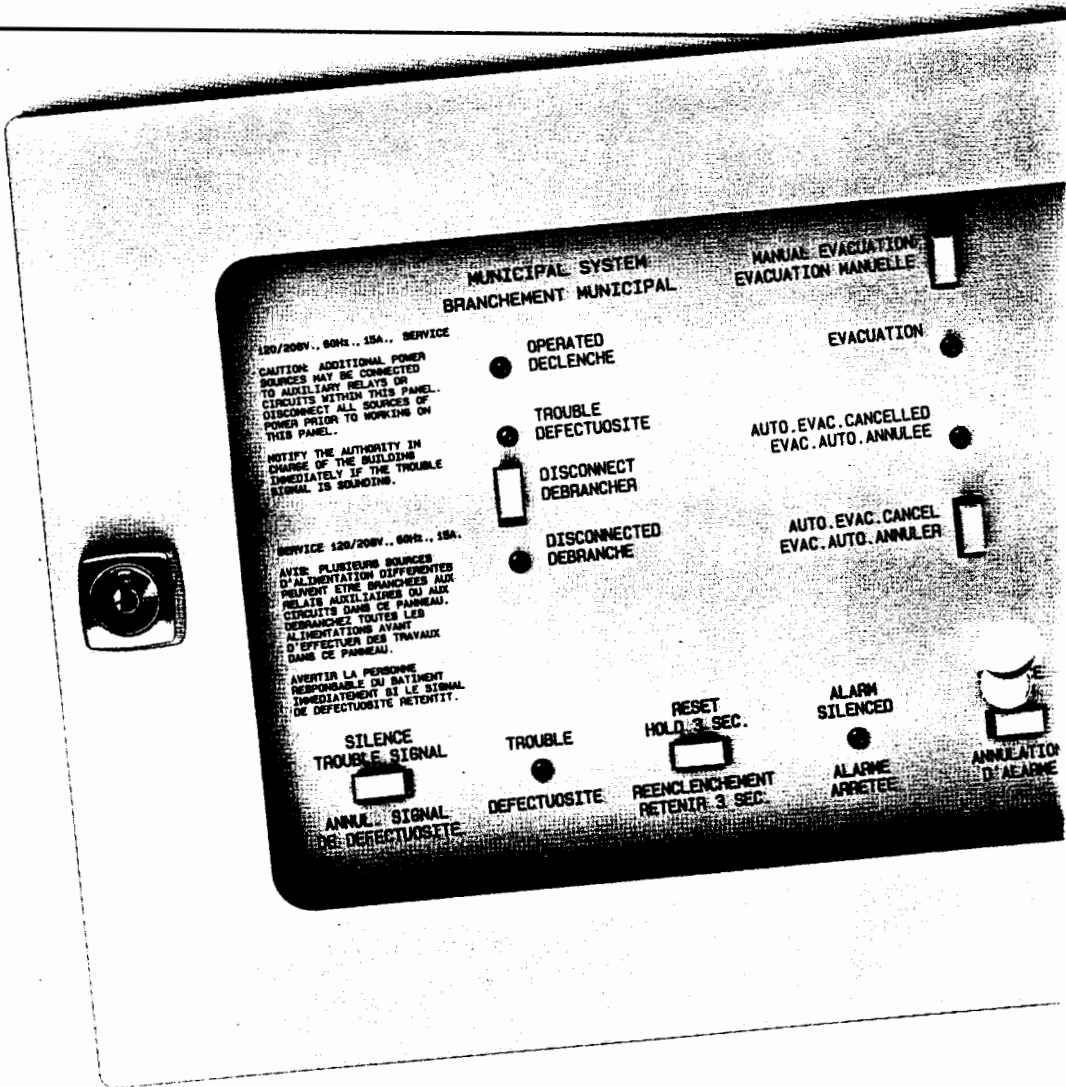
This building block technique simplifies system planning and layout, permits customized installations and facilitates future expansion.

Built in reliability.

To insure absolute reliability, all components are precision-engineered and produced to stringent quality control standards. This involves in-process inspection of all major components and modules as well as 100% inspection of all complete units in final systems mode.

Proven Performance.

Each module is accurately built to high quality control standards. This assures reliability – as do the important basic design and engineering techniques – proven by years of Edwards' fire alarm systems design and service.



Cat. No. 6500-1 Single Stage System

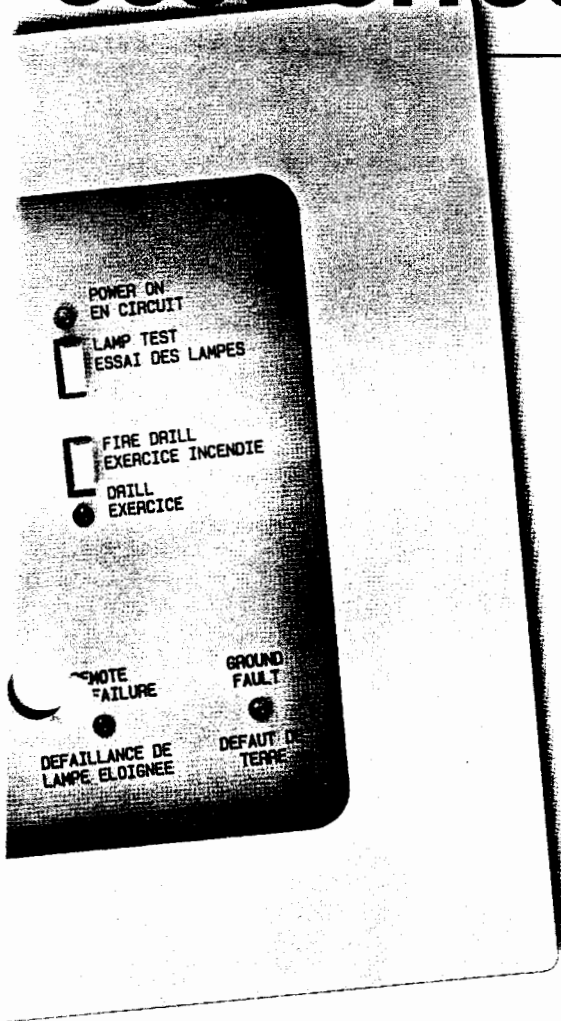
Application:

The single stage system is recommended for all installations where an immediate general alarm is required (schools, dormitories, apartment houses, barracks, and in warehouses, hazardous areas and commercial buildings).

System Operation

- Provides zoning of alarm initiating devices and an audible general evacuation alarm through the building. Accepts alarm initiation from manual stations, thermal detectors, smoke detectors, and sprinkler water flow switches.
- The alarm zone(s) is indicated on the control unit annunciator and on the desired number of remote annunciators.

Panel makes the 6500 cost-effective than ever.



- The alarm will sound on the audible signals which may be vibrating bells, single stroke bells or horns as desired.
- The wiring to all initiating and sounding devices is fully supervised against open, short, or ground faults.

Cat. No. 6500-2 Two Stage System

Application:

The two stage system is recommended for hospitals, hotels, stores, commercial and industrial buildings, all applications where a first alarm is desirable so that the fire alarm can be investigated by authorized personnel prior to the sounding of a general evacuation alarm.

System Operation

- Provides zoning of alarm initiating devices and two stages of audible alarm.
- 1st stage alert throughout the building.
- 2nd stage evacuation alarm throughout the building or programmed by evacuation zone.
- Accepts alert alarm initiation from manual stations, thermal detectors, smoke detectors, and sprinkler waterflow switches. Also evacuation alarm initiation from manual key switches.
- The alarm zone(s) is indicated on the control unit annunciator and on the desired number of remote annunciators.
- The alert alarm will be automatically transmitted to the fire department.
- The alert alarm will sound at 20 pulses per minute on single stroke bells and chimes throughout the building.
- The evacuation alarm will sound at 120 pulses per minute on single stroke bells and chimes throughout the building or in pre-designated areas in accordance with pre-set programs.

- The wiring to all initiating and sounding devices is fully supervised against open, short or ground faults.

Primary System Functions

- Alarm Receiving Circuits may be selected for Class B or Class A wiring configurations to support normally open alarm devices or normally open devices and low voltage smoke detectors.
- Alarm Output Circuits may be selected for Class B or Class A wiring configurations to support polarized 24VDC or 120VAC signals.
- Audible signal rates available – continuous, pulsed, zoned coded or master code.
- Automatic signal silence selections.
- On site matrix programming for correlation of alarm receiving circuits to alarm output circuits and ancillary alarm relays.
- Automatic evacuation feature with manual override for two stage systems.
- Fire department connections for shunt type, remote station and local energy municipal box.
- Ancillary alarm relay circuits.
- Master power supply and common control for use with both an emergency generator or batteries as a standby power source.
- Expander power supplies for both alarm receiving and alarm output circuits.
- Gell-cell and ni-cad standby batteries.

Edwards 6500 Mark II Fire Control Panel Features

Standard Features:

- Modular design-field, expandable
- Selectable one minute inhibit on manual signal silence and system reset.
- Supervised zoned alarm indication on panel.
- Indicator Test switch.
- AC or DC signal appliances.
- 24VDC system voltage
- Dead front construction
- Ground detection
- ULC listed

Optional Features:

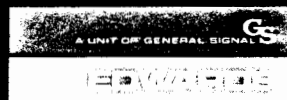
- Manual evacuation switch and adjustable automatic evacuation timer
- Programmable zoned signals and ancillary relays Class B or A alarm receiving and output circuits
- Supports 2-wire ionization and photo electric smoke detector circuits
- Integral battery and charger mounted in same cabinet as control panel
- Series or parallel wired alarm signals
- Remote station or municipal tie with disconnect

- Supervisory voltage and current meters
- Remote battery
- Supervised remote zoned annunciator
- Zoned trouble indication on panel and/or remote
- Alert and evacuation signals
- Adjustable automatic or manual alarm silencing with subsequent alarm
- Selectable signal rates

**Edwards 6500 Mark II
Fire Control Panel has one thing
you can't buy anywhere else:**

The Edwards' reputation.

**Count on it for the
finest in fire protection products.**



625 6th Street East, Owen Sound, Ontario N4K 5P8
Telephone (519) 376-2430
Telex 06-875789 Fax 1-519-376-7258



EDWARDS

MULTIPLE ZONE SYSTEMS

SECTION 6000
OS1402-300

ISSUE 1

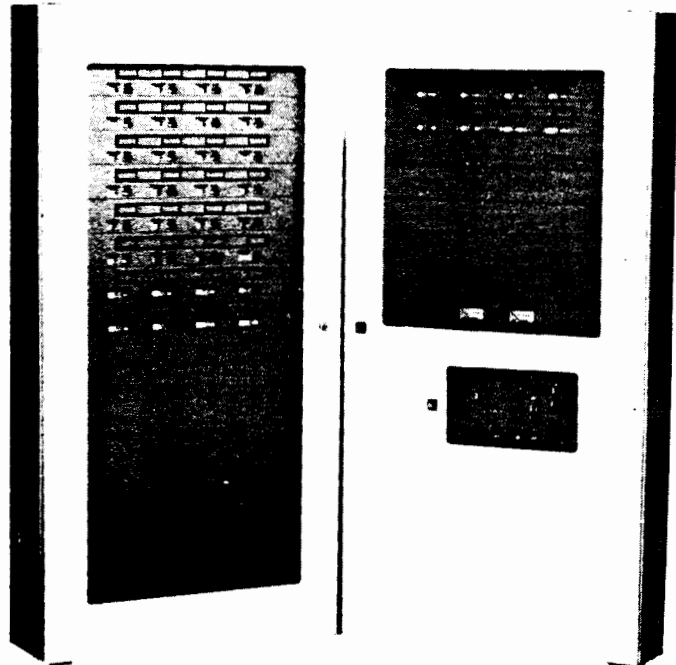
Control Panel 6500 MK II

Features

- MODULAR DESIGN-FIELD EXPANDABLE
- SELECTABLE ONE MINUTE INHIBIT ON MANUAL SIGNAL SILENCE AND SYSTEM RESET
- SUPERVISED ZONED ALARM INDICATION ON PANEL
- INDICATOR TEST SWITCH
- AC OR DC SIGNAL APPLIANCES
- 24VDC SYSTEM VOLTAGE
- DEAD FRONT CONSTRUCTION
- GROUND DETECTION
- ULC LISTED

Optional Features

- MANUAL EVACUATION SWITCH AND ADJUSTABLE AUTOMATIC EVACUATION TIMER
- PROGRAMMABLE ZONED SIGNALS AND ANCILLARY RELAYS
- CLASS B OR A ALARM RECEIVING AND OUTPUT CIRCUITS
- 2 WIRE IONIZATION AND PHOTO-ELECTRIC SMOKE DETECTOR CIRCUITS
- INTEGRAL BATTERY AND CHARGER MOUNTED IN SAME CABINET AS CONTROL PANEL
- SERIES OR PARALLEL WIRED ALARM SIGNALS



- REMOTE STATION OR MUNICIPAL TIE WITH DISCONNECT
- SUPERVISORY VOLTAGE AND CURRENT METERS
- REMOTE BATTERY
- SUPERVISED REMOTE ZONED ANNUNCIATOR
- ZONED TROUBLE INDICATION ON PANEL AND/OR REMOTE
- ALERT AND EVACUATION SIGNALS
- ADJUSTABLE AUTOMATIC OR MANUAL ALARM SILENCING WITH SUBSEQUENT ALARM
- SELECTABLE SIGNAL RATES

Description

Edwards' Custom 6500 MK II series is engineered to provide flexibility in fire alarm systems design. All major functions in the system are contained in separate modules which can be combined according to the specific needs of the installation.

This building block technique simplifies system planning and layout, permits customized installations at no extra cost and facilitates future expansion and modernization.

Utilizing solid-state technology to insure uniform reliability and performance, the Custom 6500 is designed to comply with industry standards. To insure absolute reliability, all components are precision-engineered and produced to stringent quality control standards: 100% in-process inspection of all major components and modules as well as 100% inspection of all complete units in finals systems mode.

The 6500 Fire Alarm Control Panel is a non coded single or two stage system. The basic systems are:

Cat. No. 6500-1 Non Coded Single Stage

Cat. No. 6500-2 Non Coded Two Stage

Coded single stage or two stage systems may be provided with optional hardware.

FARMINGTON, CT. 06034
OWEN SOUND, ONT. N4K 1G5

ZONED ALARM RECEIVING MODULE (8 CIRCUITS)

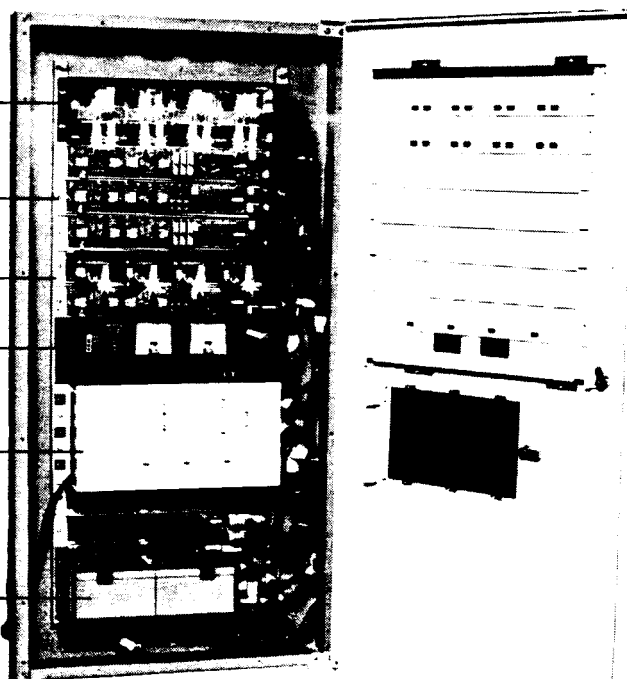
FOR FUTURE EXPANSION SUCH AS ALARM RECEIVING, AUDIBLE/VISUAL OUTPUT OR REMOTE ANNUNCIATOR CONNECTIONS

AUDIBLE/VISUAL ALARM OUTPUT MODULE (4 CIRCUITS)

BATTERY CHARGER METER PANEL

MASTER POWER AND COMMON CONTROL PANEL

SECONDARY POWER SUPPLY (BATTERY PACK AND CHARGER)



6500-1 Single Stage, Non Coded System

Operation

Edwards Cat. No. 6500-1 non coded, single stage control panel provides zoning of alarm initiating devices and an audible general evacuation alarm throughout the building or programmed by evacuation zone.

This system will accept alarm initiation from manual stations, heat detectors, smoke detectors and sprinkler water flow switches.

Zones in alarm are indicated on the control panel annunciator and on any remote annunciator(s).

An alarm will also activate the evacuation signals.

The wiring to all initiating devices and indicating appliances is fully supervised.

Application

The single stage system is recommended for all installations where an immediate general alarm is required (schools, dormitories, apartment houses, barracks, and in warehouses, hazardous areas and commercial buildings).

6500-2 Two Stage System

Operation

Edwards, Cat. No. 6500-2 two stage control panel provides zoning of alarm initiating devices and two stages of signals.

Typically a first stage alert sounds at 20 pulses per minute on bells and chimes throughout the building. The second stage evacuation alarm sounds

at 120 pulses per minute on the same bells and chimes throughout the building or in predesignated (Zoned) areas in accordance with a preset program.

This system will accept alert alarm initiating from manual stations, heat detectors, smoke detectors and sprinkler water flow switches. The initiation of the second stage evacuation alarm is from manual key switches. Zones in alarm are indicated on the control panel annunciator and on any remote annunciator(s).

The wiring to all initiating devices and indicating appliances is fully supervised.

Application

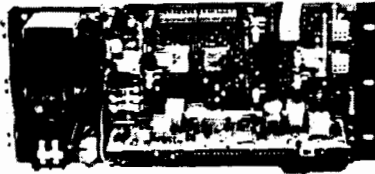
The two stage system is recommended for all applications where a first alarm is desirable so that the fire alarm can be investigated by authorized personnel prior to the sounding of a general evacuation alarm. This system, recommended for hospitals, hotels, stores, commercial and industrial buildings.

The illustrations shown or descriptions given do not necessarily show standard colors, materials, components and equipment. Edwards reserves the right to make changes at any time without notice in prices, colors, materials, components, equipment specifications and models and also to discontinue models. Copyright, Edwards 1987 Printed in Canada

EDWARDS **GS**
A UNIT OF GENERAL SIGNAL

Master Power and Common Control Panel and Modules

The versatility and cost effectiveness of the 6500 design is clearly demonstrated by the standard and optional features provided by the 6514-81 Common Control and Power Panel.



Cat. No. 6514-81

Cat. No. 6514-81 Common Control Power Panel. This panel provides:

- Power "ON" LED
- Lamp Test Pushbutton
- Fire Drill Switch and LED
- Receptacle for 6514-82 and one 6514-88 or 6514-89 module
- One minute Signal Silence Inhibit select switch
- Ancillary "IC" Alarm and Trouble operated contacts
- Terminals for the following remote functions: reset, signal silence switch and indicator, "remote annunciator indicator failure," trouble indicator and signal, power on indicator, drill switch and indicator
- Receptacle for one of the following optional modules 6514-2 or 6514-29; 6514-83; 6514-84 or 6514-85 or 6514-86
- Maximum system load of 6.0 amps DC
- May be used to power AC or DC signals.

Cat. No. 6514-82 Plug-in module.

Provides a Power On LED, Indicator Test Switch, Fire Drill Switch and LED. This module is always required.

Select one of the following common control modules:



Cat. No. 6514-88

Cat. No. 6514-88 Plug-in module.

Provides the following Common Control features:

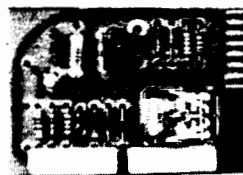
- Trouble signal silence switch and trouble signals silence LED
- System reset switch
- Manual alarm silence switch and alarm silenced LED
- Remote lamp failure LED
- Ground fault LED.

Cat. No. 6514-89 Plug-in module.

Provides the following Common Control features:

- Trouble signal silence switch and trouble signal silence LED
- System reset switch
- Alarm silenced LED
- Remote lamp failure LED
- Ground fault LED.

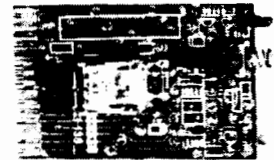
Select one of the following optional feature modules:



Cat. No. 6514-2

Cat. No. 6514-2 Audible Signal Time Limit Cutout Module. Plug-in module. Automatically silences alarm signals. Factory adjusted to operate after approximately 5 minutes.

Cat. No. 6514-29 Audible Signal Time Limit Cutout Module. Plug-in module to automatically silence alarm signals after preset period of time. Field adjustable 1 to 60 minutes.



Cat. No. 6514-84

Cat. No. 6514-84 Fire Department Connection Module.

Shunt or remote station types. Plug-in module provides DPDT contacts, one for fire department connection, one for ancillary functions, rated at 5.0 amp, 120V AC. Contacts are controlled by a manual disconnect switch with LED indicator.

Cat. No. 6514-85 Fire Department Connection.

Local energy type with hold coil. With 2C contacts, relay operated LED, Trouble LED. Contacts are controlled by a manual disconnect switch with LED indicator.

Cat. No. 6514-86 Fire Department Connection Module.

Local energy tripper type without hold coil circuitry. With 2C alarm contacts, disconnect switch and LED indicator.

Cat. No. 6514-87 Fire Department Connection Module.

Reverse polarity remote station type. Meets ANSI Standard NEMA SB3-1969. Plug-in module provides one SPDT contact for ancillary function rated at 5.0 amp, 120V AC. Fire department connection and ancillary contacts are controlled by a manual disconnect switch and LED indicator.

Power Panels



Cat. No. 6516

Cat. No. 6516 DC Signal Power Supply Extender Panel. Provides 12 amps, 24V DC, additional alarm current capacity.

Cat. No. 6516-2 Signal Power Distribution Panel. Required when two or three 6516 panels are used in the system.



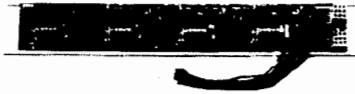
Cat. No. 6517

Cat. No. 6517 AC Power Supply Panel. This panel must be used when battery standby is not used. Provides power for trouble circuit and supervision of the L1 main power supply. Also provides a maximum of 12 amps, 120V AC, distributed on one or two supervised power supply circuits, for AC diode alarm signals.

Provides power for an additional: 240 Class "B" receiving modules without trouble lamps, or 120 Class "A" or "B" receiving modules with trouble lamps or 89 Class "A" or "B" smoke detector modules.

Cat. No. 6518 Receiving Circuit Power Supply Extender Panel. Use when receiving circuits exceed current limits listed for respective master power panel.

Alarm Receiving Panels and Modules

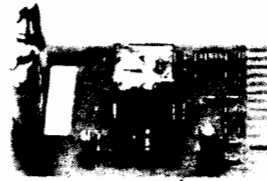


Cat. No. 6501



Cat. No. 6501-0800

Cat. No. 6501 alarm receiving circuit panel has provision for 4 alarm or supervisory receiving zone modules and the 6501-0800 alarm receiving circuit panel has provision for 8 alarm or supervisory receiving zone modules. These panels provide terminals for zone wiring and remote annunciator(s).

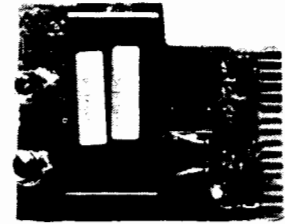


Cat. No. 6501-2

Cat. No. 6501-2 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised and unsupervised alarm lamps.

Cat. No. 6501-2 Alarm Receiving Module, Class A. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised and unsupervised alarm lamps and remote unsupervised trouble lamp.

Cat. No. 6501-6 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp on module; and provision for remote supervised alarm lamp and unsupervised alarm and trouble lamps.



Cat. No. 6501-42

Cat. No. 6501-42 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on panel; and provision for remote supervised or unsupervised alarm lamp.

Cat. No. 6501-43 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B With Remote Trouble Lamp. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on panel; and provision for remote supervised or unsupervised alarm lamp and optional remote unsupervised trouble lamp.

Cat. No. 6501-57 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class A. Plug-in receiving circuit with supervised alarm lamp, unsupervised trouble lamp on module; and provision for remote supervised or unsupervised alarm lamp and remote unsupervised trouble lamp.

Cat. No. 6501-58 Supervisory Receiving Module, Class B. Does not lock on. Trouble lamp on module and provision for remote supervised or unsupervised trouble lamp.

Cat. No. 6501-62 Supervisory Receiving Module, Class B. Plug-in module with lock on trouble lamp and ancillary dry normally open alarm operated contact wired to terminals. Contact rating at .02 amps, resistive, 24V DC only.

Cat. No. 6501-20 Interconnection or Supervisory Panel. Panel with provision to accept one 6501-21 or one 6501-22 module and terminals for remote annunciation. For use as supervisory panel or for interconnecting two fire alarm control panels. Specify operation (a) to sound alarm signals and trouble signals, or (b) to sound trouble signal only.

Alarm Receiving Panels and Modules (cont.)

Cat. No. 6501-21 Alarm Receiving Module, Class B. Plug-in module for use with 6501-20 panel. Does not lock on alarm. Alarm and trouble lamp on module and remote supervised or unsupervised alarm and unsupervised trouble.

Cat. No. 6501-22 Alarm Receiving Module, Class B. Plug-in receiving circuit for use with 6501-20 panel. Locks on alarm. Alarm and trouble lamp on module and remote supervised or unsupervised alarm and unsupervised trouble.

Cat. No. 6501-23 Alarm Receiving Module, Class B — Normally Closed Devices (Contacts). Plug-in receiving circuit with supervised alarm, unsupervised trouble lamp on module and provision for remote supervised or unsupervised alarm lamps. For use with normally closed contacts.

Cat. No. 6501-24 Alarm Receiving Module, Class B. Plug-in receiving circuit with supervised alarm lamp and unsupervised trouble lamp, ancillary dry normally open alarm operated contact wired to terminals. Contact rating 0.2 amp, resistive, 24V DC only.

Cat. No. 6501-25 Low Voltage (24V DC) Ionization/Photoelectric Smoke Alarm Receiving Module, Class B. Plug-in module with supervised alarm lamp, unsupervised trouble lamp and ancillary dry normally open alarm operated contact wired to terminals. Contact rating at 0.2 amp, resistive, 24V DC only.

Alarm Output Panels and Modules



Cat. No. 6504

Cat. No. 6504 Alarm Output Rate Control Panel. Use with single stroke signals to give output of 120 pulses per minute on alarm.



Cat. No. 6509

Cat. No. 6509 Alarm Output Rate Control Panel. For single stroke, common signals.

First stage — all signals sound at 20 SPM.

Second stage — all signals sound at 120 SPM.

If programming of signal circuits is required use 6522 programming panel. Specify breakdown of initiating and signal circuits on order.



Cat. No. 6513

Cat. No. 6513 Alarm Output Panel. Provision for 1 to 4 signal control modules.

Cat. No. 6513-18 Alarm Output Module Class A or B. Plug-in signal circuit with unsupervised trouble lamp. Use with parallel DC signal appliances only. Maximum signal current 3.0 amps.

Cat. No. 6513-19 Alarm Output Module Class A or B. Plug-in signal circuit with unsupervised trouble lamp. Use with parallel AC signal appliances only. Maximum signal current 3.0 amps.

Series signal circuits may be provided with optional hardware.

Ancillary Relays, Breakers and Terminals



Cat. No. 6525-0008

Cat. No. 6525-0004 Ancillary Relay Panel. Provides four SPDT contacts rated at 5.0 amp 120V AC brought out to terminals.

Cat. No. 6525-0008 Ancillary Relay Panel. Provides eight SPDT contacts rated at 5.0 amp 120V AC brought out to terminals.

Specify operation a, b or c:

- Operation of any receiving circuit operates all ancillary relays.
- Operation of a receiving circuit operates one relay associated only with that circuit. With this operation, ancillary relays must be in groups of four with each group of four receiving circuits.
- Receiving circuits may be programmed via 6522 program panel to operate any desired combination of ancillary relays.

Cat. No. 6525-14 Ancillary Relay Disconnect Panel. Provides four SPDT contacts rated at 5.0 amp 120V AC brought out to terminals, four disconnect switches and four relay disconnected LEDs.

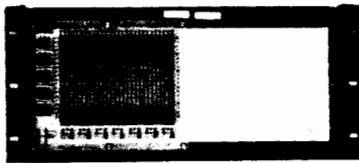
Cat. No. 6526-1 Circuit Breaker Panel. Provides three 3.0 amp 120V AC circuit breakers and three 12.0 amp 120V AC circuit breakers for protecting ancillary circuits.

Cat. No. 6526-2 Circuit Breaker Panel. Provides six 3.0 amp., 120V AC circuit breakers for protecting ancillary circuits.

Cat. No. 6527 Terminal Panel. Provides 24 terminals each having two screws for interconnection of devices. Each terminal will accept from 22 gauge to 12 gauge wire. This panel must be used if a remote battery and charger are used.

Programming Panels

Program Chart must be supplied with each order for program panels.



Cat. No. 6522-1

Cat. No. 6522-1 Program Panel. 28 inputs, 20 outputs. Provides for up to 28 receiving circuits to feed up to 20 signal circuits or ancillary relays.

Cat. No. 6522-2 Program Panel. 56 inputs, 20 outputs.

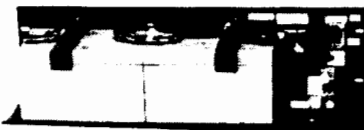
Programming panels with greater input/output configuration are available.

Secondary Power



Cat. No. 6531-5

Cat. No. 6531-5 Battery Pack Meter Panel. Provides ammeter and voltmeter to monitor charge rate and battery voltage of 6531-21, -22, -23, -24, -27, or -28 batteries.



Cat. No. 6531-27

Cat. No. 6531-27 Battery Pack and Charger Panel — 7.5AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-28 Battery Pack and Charger Panel — 4.0AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-32 Battery Pack and Charger Panel — 20.0AH. Sealed lead acid battery (gelled cell) and charging circuit.

Cat. No. 6531-41 Battery Pack and Charger Panel — 1.8AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-42 Battery Pack and Charger Panel — 4.0AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-43 Battery Pack and Charger Panel — 6.0AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6531-44 Battery Pack and Charger Panel — 10AH. Semi-sealed nickel cadmium battery and charging circuit.

Cat. No. 6532-4 Battery Charger Panel. Automatic battery charger for Cat. No. 6533-1 and -2 nickel cadmium batteries. Includes battery lead supervision. 3.0 amp charge rate.

Cat. No. 6532-5 Battery Charger Panel. Automatic battery charger for Cat. No. 6533-3 nickel cadmium batteries. Includes battery lead supervision. 6.0 amp charge rate.

Cat. No. 6532-7 Battery Charger Meter Panel. Meter panel for use with 6532-4 and 6532-5 battery chargers also for use with 6531-32. Provides one 10 amp ammeter and one 50V voltmeter.

Cat. No. 6533-1 Nickel Cadmium Battery — 16.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-2 Nickel Cadmium Battery — 24.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-3 Nickel Cadmium Battery — 32.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6533-4 Nickel Cadmium Battery — 43.AH. Battery mounted remote from F.A. control panel.

Cat. No. 6536-1 Battery Cabinet. Provides space for remote mounting of one of the following batteries: 6533-1, -2 or -3.

Cat. No. 6536-2 Battery Cabinet. Provides space for remote mounting of battery 6533-4.

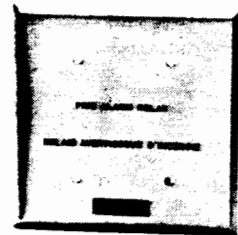
Door Power Supply



Cat. No. 6530-7

Cat. No. 6530-7 Uninterrupted 24V DC Power Supply Panel. Provides uninterrupted 24V DC, 3.0 amp for door holders, etc. This panel requires separate 120V AC, 1.5 amp supply and separate battery and charger. Order and price battery and charger separately.

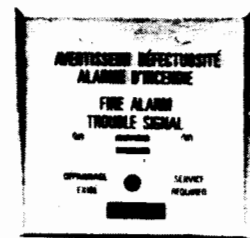
Accessories



Cat. No. 6554

Cat. No. 6554 Ancillary Alarm Circuit Relay — 24V DC (Remote). Two DPDT and one SPST with normally open contacts mounted on stainless steel 2 gang plate. Contact rating: 5.0 amp, resistive, 120V AC/28V DC.

Cat. No. 6554-1 Ancillary Alarm Circuit Relay — 120V 60Hz (Remote). Same as 6554 except 120V, 60 Hz.



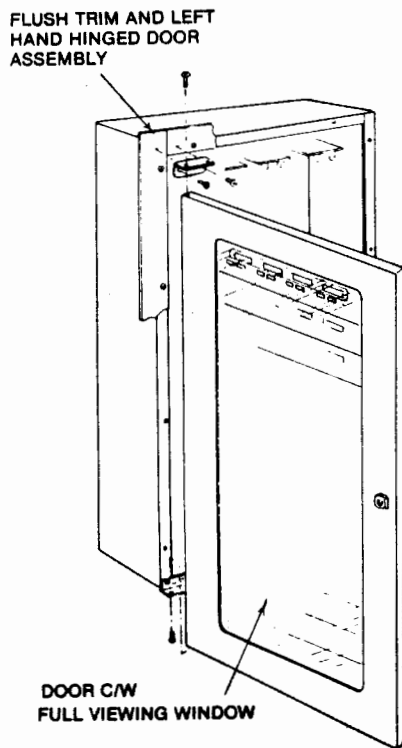
Cat. No. 6551

Cat. No. 6551 Remote Trouble Unit — 24V DC (Remote). Contains trouble lamp and midi-horn mounted on 2 gang plate. Requires three (3) wires to be connected to the Common Control panel.

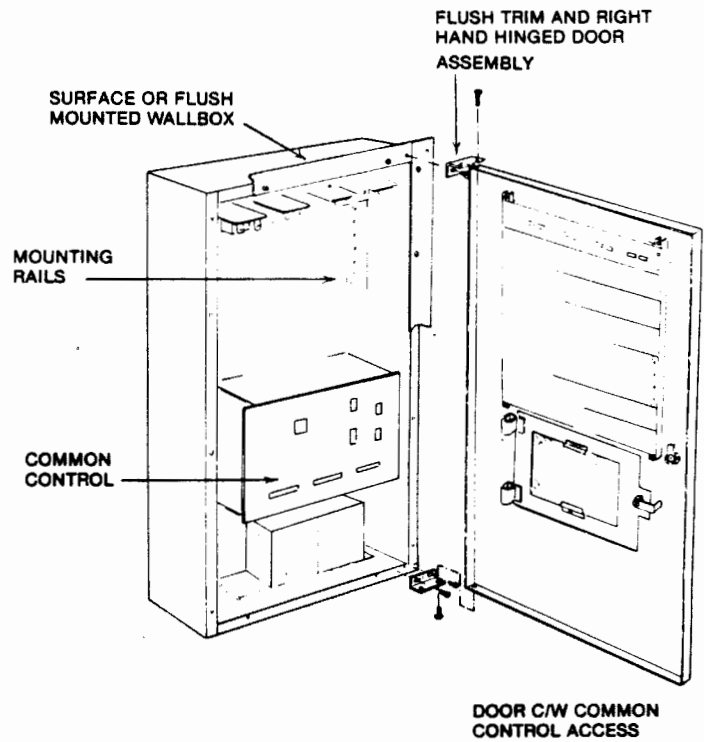
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Additional Equipment Panel



Main Control Panel



Ordering Information

WALLBOX

Cat. No.	Height			Width 24" (610mm)	Depth 6" (254mm)	Panel Spaces Available
	36" (914mm)	48" (1626mm)	72" (2032mm)			
6537-A136	X			X	X	12
6537-A148		X		X	X	16
6537-A172			X	X	X	26

Wallboxes may be flush mounted, order trim separately.

DOOR

Cat. No.	Height			Width 24" (610mm)	Panel Spaces Available for Annunciation	With Common Control Door	Without Common Control Door
	36" (914mm)	48" (1626mm)	72" (2032mm)				
6537-C236	X			X	5	X	
6537-C248		X		X	8	X	
6537-C272			X	X	14	X	
6537-A236	X			X	12		X
6537-A248		X		X	16		X
6537-A272			X	X	26		X

TRIM

Cat. No.	Height			Width	
	38" (965mm)	50" (1677mm)	74" (2083mm)	28" (681mm)	50" (1677mm)
6538-A136	X			X	
6538-A148		X		X	
6538-A172			X	X	
6538-A236	X				X
6538-A248		X			X
6538-A272			X		X

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EDWARDS 
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6500 MK II - FIRE ALARM CONTROL

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APPENDICIES	A - BATTERY CALCULATIONS
	B - APPLICATION NOTES
	C - MODIFICATION KITS, DRAWINGS

SUGGESTED LIST: Used for end user inquiries.

EDWARDS NET: Used for contractor and non-stocking distributor pricing.

MARCH, 88

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6501	Alarm Receiving Zone Panel Provision for 1 to 4 alarm receiving modules.	1	126.67	8	95.00	C05
<u>6501-0000 Alarm Panel 8% FST</u>						
6501-800	Alarm Receiving Zone Panel Provision for 1 to 8 alarm and/or Supervisory Receiving Modules	2	147.00	8	110.25	C05
<u>6501-800 Alarm Panel 8% FST</u>						
6501-2	Alarm Receiving Module, Class "B" with alarm and trouble lamp.		56.89	8	42.67	A03
<u>6501-0002 Alarm Module 8% FST</u>						
6501-3	Alarm Receiving Module, Class "A" with alarm lamp, trouble lamp and provision for remote trouble lamp.		104.71	8	78.53	A03
<u>6501-0003 Alarm Module 8% FST</u>						
6501-6	Alarm Receiving Module, Class "B" with alarm lamp, trouble lamp and provision for remote trouble lamp.		104.71	8	78.53	B03
<u>6501-0006 Alarm Module 8% FST</u>						

FOR ALL ALARM RECEIVING CIRCUITS

PANELS 6524-1 and 6524-2 must be used if a system has more than 1 remote supervised annunciator.

Panels 6524-3 and 6524-4 must be used for additional unsupervised annunciators if the total supervised and unsupervised wattage exceeds the values given in the chart below:

1 - 40 ZONES - 16 WATTS TOTAL AVAILABLE
 41 - 60 ZONES - 12 WATTS TOTAL AVAILABLE
 61 - 90 ZONES - 8 WATTS TOTAL AVAILABLE
 91 - 200 ZONES - 4 WATTS TOTAL AVAILABLE

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6501-20	Interconnection Panel (provision for one 6501-21 module or one 6501-22 module) Specify operation (a) to sound alarm signals and trouble signal or (b) trouble signal only.	1	107.73	8	80.80	C05
----- 6501-0020 Alarm Panel 8% FST -----						
6501-21	Alarm Receiving Module (does not lock on) with alarm and trouble lamp. (Provision for remote trouble lamp.)		65.65	8	49.24	B03
----- 6501-0021 Alarm Module 8% FST -----						
6501-22	Alarm Receiving Module with alarm and trouble lamp. (Provision for remote trouble lamp.)		65.65	8	49.24	B03
----- 6501-0022 Alarm Module 8% FST -----						
6501-23	Alarm Receiving Module Class "B" for normally closed general alarm loop with alarm and trouble lamp.		109.08	8	81.81	C14
----- 6501-0023 Alarm Module 8% FST -----						
6501-24	Alarm Receiving Module Class "B" similar to 6501-2 but with <u>normally open alarm contacts</u> (Contact rating .2 amp resistive at 24 VDC only.)		67.33	8	50.50	B03
----- 6501-0024 Alarm Module 8% FST -----						
6501-25	Combustion Detector Receiving Module Class "B" with alarm and trouble lamp c/w normally open alarm operated contacts (.2 amp resistive at 24 VDC only.)		122.55	8	91.91	B03
----- 6501-0025 Alarm Module 8% FST -----						

6500 MK II FIRE ALARM CONTROL

EFFECTIVE: MARCH 1988

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6501-26	Class "A" Module for wiring reduction of initiating circuits. One required per system. (Do Not Use with combustion detection modules.)		67.33	8	50.50	C14
	6501-0026 Alarm Module 8% FST					
6501-42	Combustion Detector Receiving Module Class "B" with alarm and trouble lamp.		89.21	8	66.91	A03
	6501-0042 Alarm Module 8% FST					
6501-43	Combustion Detector Receiving Module Class "B" with alarm lamp, trouble lamp and provision for remote trouble lamp.		110.42	8	82.82	B03
	6501-0043 Alarm Module 8% FST					
6501-57	Combustion Detector Alarm Receiving Module Class "A" with alarm lamp, trouble lamp and provision for remote trouble lamp.		102.69	8	77.02	A03
	6501-0057 Alarm Module 8% FST					
6501-58	Supervisory Receiving Module Class "B" with trouble lamp and provision for remote trouble lamp. Contact rating .2 amp resistive at 24VDC only.		50.70	8	38.03	A03
	6501-0058 Supv. Module 8% FST					
6501-61	Supervisory Receiving Module Class "B" with trouble lamp, ancillary contacts and provision for remote trouble lamp. Contact rating .2 amp resistive at 24VDC only.		63.96	8	47.98	C08
	6501-0061 Supv. Module 8% FST					

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6501-62	Supervisory Receiving Module (Lock-on) Class "B" with trouble lamp and ancillary contacts, provision for remote trouble lamp.		63.96	8	47.98	A03
<hr/>						
6501-0062 Supv. Module 8% FST						
6504	Audible Control Panel (output of 120 strokes per minute.)	1	105.33	8	79.00	C05
<hr/>						
6504-0000 Aud. Control 8% FST						
<hr/>						
<p><u>NOTE:</u> FOR VIBRATING SIGNALS - SEPARATE ALERT EVACUATION SIGNAL CIRCUIT.</p> <p>FIRST STAGE - PRESELECT FIRST STAGE SIGNALS WILL SOUND</p> <p>SECOND STAGE - ALL SIGNAL WILL SOUND.</p> <p><u>NOTE:</u> NO ADDITIONAL PANELS ARE REQUIRED. SPECIFY BREAK-DOWN OF INITIATING AND SIGNAL CIRCUITS ON ORDER FORM OS-1185</p>						
6506-04TM	Zone Code Transmitter Panel Master. Provides 4 code transmitters for individual code output for each receiving module. (Specify factory or on site coding). Will accommodate up to 29 6506-04TA adder panels. Use 6565-2135 Module for each sig. circuit.	2	369.33	8	277.00	C08
<hr/>						
6506-04TM Code Panel 8% FST						
<hr/>						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6506-04TA	Zone Code Transmitter Panel Adder, Provides 4 code transmitters for individual code output for each receiving circuit. One 6506-04TA is required for each additional 4 circuits. (Specify factory or on site coding). Use 6565-2135 module for each signal circuit.	1	184.00	8	138.00	C08
<hr/>						
6506-04TA Code Panel 8% FST						
6509	Audible Signal Control Panel for single stroke, common signals. FIRST STAGE: All signals sound at 20 strokes per minute. SECOND STAGE: All signals sound at 120 strokes per minute. If programming of signal circuits are required use 6522 program panel. Specify breakdown of initiating and signal circuits on order form OS-1185.	1	118.33	8	88.75	C08
<hr/>						
6509-0000 Sig. Control 8% FST						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6509-3	Audible Signal Control Panel for single stroke, combination alert and evacuation signals per program. ON ALARM: The floor in alarm, the floor above and the floor below will sound at 120 strokes per minute. All other floors will sound at 20 strokes per minute. The 6522 programming panel is required to program signal circuits. Specify breakdown of initiating and signal circuits on order form OS-1185.	1	314.00	8	235.50	C08
<hr/> 6509-0003 Sig. Control 8% FST <hr/>						
6509-4	Audible Signal Control Panel for single stroke, separate alert and evacuation signals. FIRST STAGE: Pre-selected first stage signals will sound at 20 strokes per minute. SECOND STAGE: All signals will sound at 120 strokes per minute. SEE APPENDIX "C" - NOTE 5 Specify breakdown of initiating and signal circuits on order form OS-1185.	1	118.33	8	88.75	C08
<hr/> 6509-0004 Sig. Control 8% FST <hr/>						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6509-27	Audible Signal Control Panel for variable rate flasher. There are three operations that can be achieved from this panel. a) Pre-signals - 3 - 180 strokes per minute General Alarm signals vibrate. b) Simultaneous stroking and vibrating c) Pre-signals - 3 - 40 strokes per minute General Alarm 60 -180 strokes per min. The 6522 programming panel is required to program signal circuits. Specify breakdown in initiating and signal circuits on order form OS-1185.	1	158.33	8	118.75	C08
<hr/>						
6509-0027 Sig. Control 8% FST						
6513	Audible Signal Panel. (Provision for 1 to 4 signal control modules).	1	117.33	8	88.00	C05
<hr/>						
6513-0000 Signal Panel 8% FST						
6513-18	Signal Control Module Class "A" or "B" with trouble lamp. For use with 120VAC Signal Appliances.		65.33	8	49.00	A03
<hr/>						
6513-0018 Signal Module 8% FST						
6513-19	Signal Control Module Class "A" or "B" with trouble lamp c/w M.O.V. For use with 24VDC Signal Appliances.		65.33	8	49.00	A03
<hr/>						
6513-0019 Signal Module 8% FST						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
<u>NOTE:</u>						
Be sure to check the signal circuit voltage when ordering replacement modules for the 6513-1, -2, -3, -4 or -5.						
6513-13	Halon Discharge Module (supervises 2 discharge plugs) Class "B"		69.37	8	52.03	B03
	6513-0013 Halon Module 8% FST					
6513-16	Halon Discharge module supervises one electrical discharge solenoid. Class "B"		117.64	8	88.24	B03
	6513-0016 Halon Module 8% FST					
46229-0032	*End of Line unit 22K used with 6501-1, -2, -21, -22, -24, -56, -58, -61, -62, and 6513-18, -19		6.40	8	4.80	C05
	46229-0032 End of Line 8% FST					
46229-0037	*End of Line unit 1.8K used 6501-42 and -43.		6.40	8	4.80	C05
	46229-0037 End of Line 8% FST					
46229-0013	*End of Line unit 22K used on 6513-13		7.07	8	5.30	C05
	46229-0013 End of Line 8% FST					
46229-0023	*End of Line unit 22K used on 6513-16. Use standard outlet box not 27193 series box.		9.33	8	7.00	C05
	46229-0023 End of Line 8% FST					
46229-0035	*End of Line unit 2.7K used on 6501-25.		6.40	8	4.80	C05
	46229-0035 End of Line 8% FST					
46229-0041	*End of Line Unit 22K 2 watt used on A.C. Signal Circuits		6.40	8	4.80	
	46229-0041 End of Line 8% FST					

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
<p>*END OF LINE UNITS CAN BE ORDERED SEPARATELY FOR EARLY SYSTEMS INSTALLATION. END OF LINE UNITS RECEIVED WITH MODULES CANNOT BE RETURNED FOR CREDIT.</p>						
<p><u>PARALLEL SIGNAL CIRCUIT NOTE:</u></p> <p>Each 6513- signal control module will operate AC or DC parallel connected, polarized signals. (Determined by Power Supply). See nomograph at the end of this section for detailed information on the number of signals per signal circuit, the length of wire run and the wire size for each signal circuit.</p>						
6514-2	Audible Signal Time Limit Cutout Module 5 minute adjustable.		72.67	8	54.50	C05
<p>6514-0002 TLC Module 8% FST</p>						
6514-29	Audible Signal Time Limit Cutout Module (Specify time Maximum 60 Minutes.)		105.00	8	78.75	C05
<p>6514-0029 TLC Module 8% FST</p>						
6514-81	Master Power and Common Control Panel Provision for: 1 Common Control Module, 6514-88 or 6514-89 (1 required) 1 Status Module 6514-82 (always required) 1 Time Limit Cut Out Module 6514-2, 6514-29 (1 required or vacancy module supplied) 1 Municipal Tie Module, 6514-84, -85, -86 (1 required or vacancy module supplied) 1 Auto/Manual Evacuation Module 6514-83 (required for Auto Evacuation) Selectable One Minute Signal Silence/Reset Inhibit	3	264.00	8	198.00	C05

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
<u>Standard Features:</u>						
- Maximum system load of 6 amps DC (a 6516 or 6518 is required for system loads greater than 6 amps DC)						
- Power On LED						
- Indicator Test Switch and LED						
- Drill Switch and LED						
- Remote Indicator Failure LED						
- Alarm Signal Silence LED						
- Trouble Signal Silence Switch and Trouble LED						
- System Reset Switch						
- Ground Fault Indicator						
<u>Optional Feature:</u>						
- Manual Signal Silence Switch (available on 6514-88 Common Control Module only)						
6514-82	Common Features Module (one required) includes Power On LED, Indicator Test Switch, Drill Switch and LED		34.67	8	26.00	C05

6514-82 C.F. Module 8% FST						
6514-83	Auto/Manual Evacuation Module c/w Adjustable Auto Evacuation Timer, Auto Evac Cancel Switch and LED, Manual Evacuation Switch and LED		80.00	8	60.00	C05

6514-83 A.E. Module 8% FST						
6514-84	Remote Station Module. Shunt type or remote station. With "2C" contacts, disconnect switch and lamp.		53.00	8	39.75	C05

6514-0004 F.D. Module 8% FST						
6514-85	Remote Station Module. Local energy, tripper type c/w hold coil circuitry. With "2C" contacts, disconnect switch and lamp.		57.67	8	43.25	C05

6514-0005 F.D. Module 8% FST						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6514-86	Remote Station Module, local energy tripper type without hold coil circuitry. With 2 "C" alarm contacts, disconnect switch and lamp.		61.00	8	45.75	C05
	6514-0006 F.D. Module 8% FST					
6514-88	Common Control Module c/w - Trouble Signal Silence Switch and LED - System Reset Switch - Remote Indicator Failure LED - Alarm Signal Silence LED - Manual Signal Silence LED - Ground Fault Indicator - For use with AC or DC Standby Power		192.00	8	144.00	C05
	6514-88 Module 8% FST					
6514-89	Common Control Module - As above less Manual Signal Silence Switch		192.00	8	144.00	C05
	6514-89 Module 8% FST					
6516	Signal Extender Power Panel provides an additional 12 amps of signal load to the system.	2	345.00	8	258.75	C05
	6516-0000 Power Panel 8% FST					
6517	AC Power Panel must be used when DC standby power is not used to supply the second source of power for the trouble circuit. 24 Amps maximum for AC signals. (See Appendix "A" - Chart "F")	1	210.33	8	157.75	C05
	6517-0000 Power Panel 8% FST					
6518	Receiving circuit extender power panel	2	343.67	8	257.75	C08
	6518-0000 Power Panel 8% FST					

*SEE APPENDIX "B" AT THE END OF THIS SECTION FOR DETAILED INFORMATION ON THE APPLICATION AND RESTRICTIONS ON THESE PANELS.

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
<u>PROGRAMMING</u>						
<u>NOTE 1:</u>						
Programming panels provide circuitry to program audible signal circuits or ancillary relays to individual or groups of alarm receiving circuits.						
<u>NOTE 2:</u>						
A programming chart must be filled in when a programming panel is ordered.						
6522-1	Programming panel 28 Inputs, 20 Outputs	3	239.00	8	179.25	C05
<u>6522-0001 Matrix 8% FST</u>						
6522-2	Programming panel 56 Inputs, 20 Outputs	3	387.67	8	290.75	C08
<u>6522-0002 Matrix 8% FST</u>						
6522-5	Programming panel 28 Inputs, 40 Outputs	3	359.67	8	269.00	C08
<u>6522-0005 Matrix 8% FST</u>						
6524-1	Additional Remote Supervised Annunciator <u>Master Panel</u> allows three more supervised annunciators to be used with the system.	1	285.00	8	213.75	C08
<u>6524-0001 Ann. Panel 8% FST</u>						
6524-2	Additional Remote Supervised Annunciator <u>Slave Panel</u> . The number of Cat.#6524-2 panels required on the system equals the number of Cat.#6501 panels on the system minus 1.	1	209.00	8	156.75	C08
<u>6524-0002 Ann. Panel 8% FST</u>						

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6524-3	Additional Remote Unsupervised Annunciator <u>Master Panel</u> allows three more unsupervised annunciators to be used with the system.	1	198.67	8	149.00	C08
<hr/>						
6524-0003 Ann. Panel 8% FST						
6524-4	Additional Remote Unsupervised Annunciator <u>Slave Panel</u> . The number of Cat.#6524-4 panels required on the system equals the number of Cat.#6501 panels on the system minus 1.	1	190.67	8	143.00	C08
<hr/>						
6524-0004 Ann. Panel 8% FST						
6525-0000	Ancillary Relay Panel. Provides 4 "2C" relays to terminals. Relay contacts rated at 5.0 Amps resistive and 3.0 Amps inductive at 28VDC and 120VAC		130.67	8	98.00	C05
<hr/>						
6525-0000 Relay Panel 8% FST						
6525-0004	Ancillary Relay Panel. Provides 4 1C relays to terminals. Relay contacts rated at 5.0 Amps resistive and 3.0 Amps inductive at 28VDC and 120VAC	1	72.67	8	54.50	C05
<hr/>						
6525-0004 Relay Panel 8% FST						
6525-0008	Ancillary Relay Panel. Provides 8 "1C" relays to terminals. Relay contacts rated at 5.0 Amp resistive and 3.0 Amps inductive at 28VDC and 120VAC		78.00	8	58.50	C05
<hr/>						
6525-0008 Relay Panel 8% FST						

NOTE 1:

The Remote Station disconnect switch will also disconnect these relays.

NOTE 2:

Ancillary relays may be arranged in one of the following three ways:

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
	a) <u>COMMON</u> : Operation of any zone operates all ancillary relays. (If no instructions are provided the relays will be supplied in this manner).					
	b) <u>INDIVIDUAL</u> : Operation of an initiating circuit operates one ancillary relay associated with that initiating circuit only. With this operation, order one 6525 for each 6501 on the system and state "ancillary relay zoned to individual initiating circuits."					
	c) <u>ZONED</u> : Operation of an initiating circuit operates the ancillary relays that are connected via the programming panel. If the ancillary relays are to be zoned, complete a programming chart and send in with your order and state on the order "refer to programming chart".					
6525-14	Ancillary Relay Disconnect Panel provides 4 "1C" ancillary relay to terminals and 4 relay disconnect switches. Relay contacts rate at 5.0 Amps resistive at 24VDC/120VAC		69.33	8	52.00	C05
	<u>6526-0014 Relay Panel 8% FST</u>					
6527	Auxiliary Terminal Panel provides 2 - 12 point terminal blocks.	1	35.67	8	26.75	C05
	<u>6527-0000 Term. Panel 8% FST</u>					
6527-1	Terminal Panel provides 2 - 12 point terminal blocks (stamped per customer request)	1	44.67	8	33.50	C08
	<u>6527-0001 Term. Panel - 8% FST</u>					

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6527-2	Terminal Panel provides 3 - 12 point terminal blocks (stamped per customer request).	1	48.00	8	36.00	C08
	6527-0002 Term. Panel 8% FST					
6530-1	Dome Lamp Transformer Panel, 50 VA	2	122.67	8	92.00	C05
	6530-0001 See Desc. 8% FST					
6530-2	Dome Lamp Transformer Panel, 100 VA	2	146.33	8	109.75	C05
	6530-0002 See Desc. 8% FST					
6530-3	Dome Lamp Transformer Panel, 250 VA	2	204.00	8	153.00	C05
	6530-0003 See Desc. 8% FST					
6530-7	"No-Break" Power supply provides 24 V DC, 3 amps for door holders. Requires <u>separate</u> 120 V AC, 15 amp supply and a <u>separate</u> battery pack. Order and Price all items SEPARATELY. See Appendix "E" for size of battery pack required.	2	362.33	8	271.75	C10
	6530-0007 Power Supply 8% FST					
6531-5	Battery Pack Meter Panel, provides one Ammeter and one Voltmeter to monitor charge rate and battery voltage.	1	162.67	8	122.00	C05
	6531-0005 Meter Panel 8% FST					
6565-4416	Power Supply provides 12V DC for up to 50 Cat.#350LIT Thermal Smoke Alarm	3	288.33	8	216.25	C08
	6565-4416 Power Supply 8% FST					

BATTERY NOTE:

See Battery Selection Chart
in Appendix "A" at the end
of this section.

6500 MK II FIRE ALARM CONTROL

EFFECTIVE: MARCH 1988

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6531-27	Battery Pack & Charger, 8.5 A.H., Gel-Cell	2	346.33	8	259.75	C05
	6531-0027 See Desc. 8% FST					
6531-28	Battery Pack & Charger, 4 A.H., Gel-Cell	2	237.33	8	178.00	C05
	6531-0028 See Desc. 8% FST					
6531-32	Battery Pack & Charger, 20 A.H., Gel-Cell	6	1013.00	8	759.75	C05
	6531-0032 See Desc. 8% FST					
6531-41	Battery Pack & Charger, 1.8 A.H., Ni-Cad	1	453.33	8	340.00	C05
	6531-0041 See Desc. 8% FST					
6531-42	Battery Pack & Charger, 4 A.H., Ni-Cad	2	853.33	8	640.00	C05
	6531-0042 See Desc. 8% FST					
6531-43	Battery Pack & Charger, 7.0 A.H., Ni-Cad	2	1239.00	8	929.25	C05
	6531-0043 See Desc. 8% FST					
6531-44	Battery Pack & Charger, 10 A.H., Ni-Cad	2	1951.33	8	1463.50	C08
	6531-0044 See Desc. 8% FST					
WALLBOXES						
6537-A136	Wallbox, Saddle Tan 24 x 36 x 5 3/4 in. (610 x 914 x 146 mm), provides 12 panel spaces		130.00	8	97.50	A03
	6537-A136 Wallbox 8% FST					
6537-A148	Wallbox, Saddle Tan 24 x 48 x 5 3/4 in. (610 x 1219 x 146 mm), provides 16 panel spaces		170.00	8	127.50	A03
	6537-A148 Wallbox 8% FST					

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
6537-A172	Wallbox, Saddle Tan 24 x 72 x 5 3/4 in. 610 x 1829 x 146 mm), provides 26 panel spaces		220.00	8	165.00	A03
	6537-A172 Wallbox 8% FST					
DOORS						
6537-C236	Door, Beige Steel c/w common control access - lock and 5 panel space smoke plexiglass viewing area (24 x 36 in) (610 x 914 mm)		130.00	8	97.50	A03
	6537-C236 Door 8% FST					
6537-C248	Door, Beige Steel c/w common control access - lock and 8 panel spaces smoke plexiglass viewing area (24 x 48 in) (610 x 1219 mm)		170.00	8	127.50	A03
	6537-C248 Door 8% FST					
6537-C272	Door, Beige Steel c/w common control access - lock and 14 panel space smoke plexiglass viewing area (24 x 72 in) (610 x 1829 mm)		246.67	8	185.00	A03
	6537-C272 Door 8% FST					
6537-A236	Door, Beige Steel c/w lock and 12 panel space smoke plexiglass viewing area (24 x 36 in) (610 x 914 mm)		130.00	8	97.50	A03
	6537-A236 Door 8% FST					
6537-A248	Door, Beige Steel c/w lock and 16 panel space smoke plexiglass viewing area (24 x 48 in) (610x 1219 mm)		170.00	8	127.50	A03
	6537-A248 Door 8% FST					
6537-A272	Door, Beige Steel c/w lock and 26 panel space smoke plexiglass viewing area (24 x 72 in) (610 x 1829 mm)		246.67	8	185.00	A03
	6537-A272 Door 8% FST					

CAT. NO.	DESCRIPTION	PS	SUGGESTED LIST	TAX	EDWARDS NET	DEL
<u>FLUSH TRIM</u>						
6538-A136	Trim, beige 24 x 36 in. (610 x 914 mm) door		46.67	8	35.00	B03
6538-A136	Trim 8% FST					
6538-A148	Trim, beige 24 x 48 in. (610 x 1219 mm) door		60.00	8	45.00	B03
6538-A148	Trim 8% FST					
6538-A172	Trim, beige 24 x 72 in. (610 x 1829 mm) door		68.25	8	51.30	B03
6538-A172	Trim 8% FST					
6538-A236	Trim, beige 2 gang, for two 24 x 36 in (610 x 1829 mm) doors		67.85	8	51.00	B03
6538-A236	Trim 8% FST					
6538-A248	Trim, beige 2 gang, for two 24 x 48 in (610 x 1219 mm) doors		82.85	8	62.30	C12
6538-A248	Trim 8% FST					
6538-A272	Trim, beige 2 gang, for two 24 x 48 in (610 x 1829 mm) doors		106.35	8	79.96	C12
6538-A272	Trim 8% FST					

APPENDIX A - 6500 MK II

BATTERY CALCULATION - 6500 MK II

No. of Non-Smoke & Supv. Modules (6501-2-3-6-24-58-61-62)	_____ x 3ma = _____	ma
No. of Smoke Modules (6501-25-42-43-57)	_____ x 15ma = _____	ma
No. of Signal Modules (6513-18-19)	_____ x 3ma = _____	ma
No. of Ann. Supv. Panels (6524-1-2)	_____ x 6ma = _____	ma
No. of Signal Modules (6566-506)	_____ x 3ma = _____	ma
6506-04TA	_____ x 1ma = _____	ma

ADDER FOR CONTROL PANEL AND ONE REMOTE TROUBLE INDICATOR = 30. ma

ADDER FOR 6506-04TM = 30.0 ma

1 ADD UP TOTAL SUPERVISORY CURRENT = _____ ma

No. of Alarm Receiving Modules, Chart "A"	= _____	amps
D.C. for Parallel Signals, Qty. x Chart "C"	= _____	amps
D.C. for Series Signals, No. of Modules x Service Current	= _____	amps
No. of 6525 Aux. Relay Panels _____ x.15	= _____	amps
No. of 6525-4 Ancillary Relay Panels _____ x.06	= _____	amps
No. of 6285-8 Ancillary Relay Panels _____ x.12	= _____	amps
Current for Remote Ann;s Qty and No. of Zones, Chart "B"	= _____	amps
No. of Signal Modules Qty. _____ x.04	= _____	amps
For 6524 Add .04	= _____	amps
For 6506-04TM Add 0.60	= _____	amps
For 6506-04TA Qty. _____ x7 ma	= _____	amps
For 6509,-4 Add 0.08	= _____	amps
For 6509-3 Add 0.38	= _____	amps
For 6509-27 Add 0.08	= _____	amps
For 6514-83 Add 0.03	= _____	amps
FOR CONTROL PANEL 6514-81 Add .30 amps	= _____	amps

2 ADD UP TOTAL ALARM CURRENT = _____ amps

3 USE 1 & 2 TO DETERMINE BATTERY SIZE FROM EXISTING CURVES