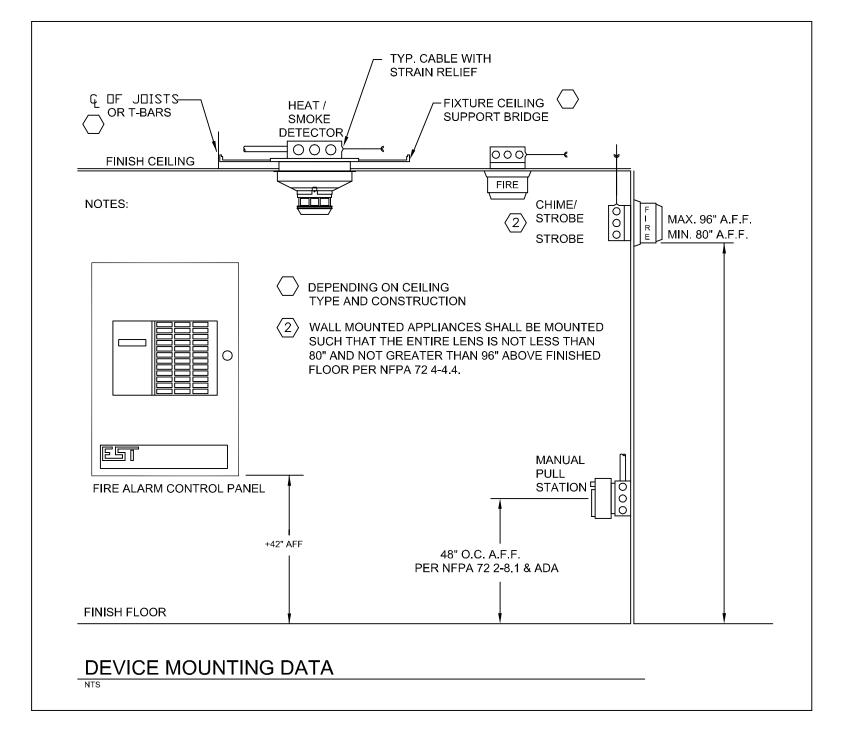
INSTALLATION OF NEW FIRE ALARM SYSTEM

- 1. Provide new analog addressable fire alarm control panel (EST-2)
- 2. INSTALL NEW EDWARD'S BPS-6 POWER EXPANDER PANELS TO POWER NOTIFICATION APPLIANCE CIRCUITS.
- 3. INSTALL NEW MANUAL PULL STATIONS AT ALL POINTS OF EXITS.
- 4. INSTALL AUDIBLE (HORN) VISUAL (STROBE) DEVICES AS PER REQUIREMENTS OF NFPA 72.
- 5. INSTALL MONITOR MODULES TO MONITOR THE CONDITIONS OF THE SPRINKLER WATER FLOW AND TAMPER SWITCHES. 6. ALL STROBES TO BE SYNCHRONIZED.
- TOTAL AREA WORK: 190,200 S.F.

GENERAL NOTES:

- 1.) FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 72 (2001 ED.), TITLE 19, TITLE 24, ADA REQUIREMENTS.
- 3.) Wiring shall not be looped through device terminals. Conductor must be cut and wired "in" & "out" so that adequate supervision of the circuit
- 4.) All fire alarm wiring must be tested after installed. Must test free of opens, shorts and grounds.
- 5.) POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED. (EXCEPT WITH ADDRESSABLE CLASS B DEVICES).
- 7.) ALL TERMINATION'S IN MAIN PULL BOXES AND TERMINAL
- CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS. 8.) THE FACP IS NOT TO BE USED AS A TERMINAL CABINET.
- 9.) ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUMS. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS (IE NO.
- OF BENDS ETC.) BUT SHALL NOT BE SMALLER THAN 3/4". 10.) ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
- 11.) STROBE POWER PANELS SHALL BE CAPABLE OF PROVIDING A MINIMUM OF 6 Amps OF POWER FOR EACH 30,000sf OF FLOOR AREA. THIS IS REQUIRED TO PROVIDE FOR COMPLETE BUILDING OF FLOOR TENANT SPACE.
- 12.) FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
- 13.) CONDUIT AND JUNCTION/BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
- 14.) PULL STATIONS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR TO CENTER OF BOX.
- 15.) PENETRATIONS TO FIRE-RATED ASSEMBLIES SHALL BE PROTECTED BY A UL APPROVED THROUGH-PENETRATION FIRE-STOP SYSTEM.
- 16.) AUDIO VISUAL DEVICES SHALL BE INSTALLED PER TITLE 24 SECTION 3503 CBC REQUIREMENT.
- 17.) CONTRACTOR TO VERIFY LOCATION OF FLOW AND TAMPER SWITCHES AT JOB SITE.
- 18.) ANY DEVICE EXPOSED TO THE ATMOSPHERE TO BE MOUNTED IN A WEATHERPROOF BOX, COMPONENT SHALL BE LISTED FOR EXTERIOR.
- 19.) FIRE ALARM LOCKED PANEL SHALL BE ACCESSIBLE ONLY TO FIRE DEPT. PERSONNEL & AUTHORIZED MAINTENANCE PERSONNEL.
- 20.) ANY DEVIATION FROM THESE PLANS NECESSARY DUE TO FIELD CONDITIONS SHALL BE APPROVED BY FIRE ALARM ENGINEER.
- 21.) ANY FIELD CONDITION MISREPRESENTED IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 22.) ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURERS SPECIFICATIONS.



NOTE:

ELECTRICAL POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S) THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED (CIRCUIT BREAKERS SHALL BE LOCKED IN THE ON POSITION WITH AN APPROVED MECHANICAL CLIP). CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONAL, AND SHALL BE IDENTIFIED AS "FIRE ALARM". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. [NFPA 72, 1-5.2.5.2]

NOTES:

- 1. INITIATING DEVICE CIRCUITS TO BE WIRED CLASS "B" STYLE 4
- 2. NOTIFICATION DEVICE CIRCUITS TO BE WIRED CLASS "B" STYLE 4.

MODEL 5104 UL INSTALLATION REQUIREMENTS:

THE MODEL 5104 HAS BEEN UL LISTED AS A CONTROL/COMMUNICATOR FOR USE IN A CENTRAL STATION FIRE ALARM SYSTEM UNDER NFPA 72. COPIES OF NFPA 72 MAY BE OBTAINED BY WRITING. TO: NATIONAL FIRE PROTECTION ASSOCIATION.

IN ANY INSTALLATION WHICH IS TO BE SUBMITTED FOR CERTIFICATION YOU MUST USE UL LISTED EQUIPMENT. PROPERLY INSTALLED BY PROFESSIONALS IN COMPLIANCE WITH THE ABOVE STANDARDS AND THE NATIONAL ELECTRICAL CODE (NFPA-72). THE INSTALLATION MUST ALSO MEET REQUIREMENTS OF LOCAL AUTHORITIES. THE 5104 MUST REPORT TO A CERTIFIED CENTRAL STATION AND THE CENTRAL STATION COMPANY OR THE INSTALLATION COMPANY MUST PROVIDE ROUTINE TESTING AND MAINTENANCE OF THE SYSTEM TO INSURE CONTINUED OPERATION IN COMPLIANCE WITH THE REQUIREMENTS.

GENERAL NOTES:

- 1.) SYSTEM SHALL BE A LOW VOLTAGE POWER LIMITED CENTRAL STATION SIGNALING SYSTEM, SILENT KNIGHT MODEL #5104 INSTALLED IN FLOOR OF ONE STORY BUILDING. THE SIGNALS SHALL BE RECEIVED AT CENTRAL STATION.
- THESYSTEM SHALL BE EQUIPPED WITH A VISUAL AT THE **KEYPAD FOR THE** PURPOSE OF LOCAL ANNUNCIATION.
- 3.) THE SYSTEM SHALL COMMUNICATE WITH THE CENTRAL STATION VIA A DUAL

- LINE COMMUNICATOR. (NFPA 71) i. ALL INSTALLATIONS SHALL HAVE TWO (2)
 - DIFFERENT LOOP START TELEPHONE LINES. ii. CENTRAL STATION MONITORING FACILITY HAS TWO (2) DIFFERENT TELEPHONE LINES (TWO DIFFERENT NUMBERS) AVAILABLE FOR TRANSMISSION FROM THE FIELD.
 - iii. THE INCOMING LINES ARE IN ROTARY, SO THAT IF LINE #1 IS BUSYT WILL AUTOMATICALLY BE ANSWERED ON LINE #2.
 - iv. THE DIGITAL COMMUNICATOR WILL CONSTANTLY **MONITOR EACH** AUTOMATICALLY TRANSMIT A "TROUBLE" SIGNAL TO CENTRAL STATION INDICATING WHICH

TELEPHONE LINE FAILED VIA THE OTHER PHONE

- LINE AND SOUND AL'OCAL TROUBLE" WARNING ON v. THE DIGITAL COMMUNICATOR USED THE PRIMARY PHONE LINE TO CALL THE PRIMARY PHONE NUMBER AT CENTRAL STATION. IF THE DIGITAL COMMUNICATOR IS UNABLE TO REACH THE
- PRIMARYNUMBER AFTER 8 ATTEMPTS, IT WILL AUTOMATICALLY DIAL THE SE CONDARY PHONE NUMBER. vi. IF THE PRIMARY LINE FAILS, THE DIGITAL COMMUNICATOR WILL USE THE SECONDARY TO DIAL THE PRIMARY NUMBER AT CENTRAL STATION. IF IT IS UNABLE TO REACH THE RECEIVER AFTER 8
- vii. THE DIGITAL COMMUNICATOR SHALL BE CONNECTED TO THE TELEPHONE LINES USING RJ38X

ATTEMPTS, IT WILL THEN DIAL THE SECONDARY

SMOKE FIRE DAMPER BY OTHERS, CONNECTION ONLY WIRE LEGEND VISIBLE CIRCUIT (STROBE) 2#14 AWG. AUDIBLE CIRCUITS (HORN) 2#18 AWG. ADDRESSABLE DATA CIRCUIT 2#18 AWG. ANNUNCIATOR 2#14 AWG.

DOOR HOLDER

SYMBOL

CT-1

DESCRIPTION

TO UL LISTED CENTRAL STATION

FIRE ALARM CONTROL PANEL

DIGITAL COMMUNICATOR

GRAPHIC ANNUCIATOR

SIGNAL MODULE

DUAL INPUT MODULE

SINGLE INPUT MODULE

SMOKE DETECTOR BASE

HEAT DETECTOR BASE

DUCT SMOKE DETECTOR

HORN/STROBE (WALL)

HORN/STROBE (CEILING)

WEATHERPROOF PULL STATION

CONTROL MODULE

PULL STATION

SMOKE DETECTOR

HEAT DETECTOR

STROBE (WALL)

STROBE (CEILING)

WP WEATHERPROOF BACK BOX

MINI HORN

DOOR HOLDER

FLOW SWITCH

TAMPER SWITCH

2#14 AWG.

SHUT DOWN AIR HANDLERS

RELEASE ALL

DOOR HOLDERS

CENTRAL MONITORING

HORN/STROBE (WALL)

REMOTE POWER SUPPLY

SEQUENCE OF OPERATION MANUAL ELEVATE. LOBBY AREA SMOKE HEAT DETECTOR SMOKE WATER FLOW VALVE TAMPER POWER DETECTOR SWITCH ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble) YES YES YES SUPERVISORY YES YES YES YES 24-HOUR ATTENDED SUPERVISORY YES YES YES YES YES REMOTE LOCATION YES (alarm & trouble & Supervisory) ACTIVATE AUDIO/ AUDIBLE/VISUAL SIGNAL YES YES YES NO YES YES ON FLOOR OF ALARM RECALL ELEVATORS TO YES NO PRIMARY & SECONDARY FLOORS

YES

YES

YES

YES

YES

YES

YES

SUPERVISORY

YES

YES

YES

BUILDING INFORMATION: PROPOSED 91 UNIT APARTMENT BUILDING TYPE V-1HR. CONST. R-1 OCCUPANCY OVER TYPE I PARKING GARAGE S-3 OCCUPANCY

FULLY SPRINKLERED

GENERAL MONITORING SERVICES. INC. 1127 LOMA AVENUE LONG BEACH, CA. 90804 1-800-576-0650 STATE LICENCE ACO 5198

DUCT DETECTORS SHALL SEND SUPERVISORY SIGNAL.

YES

YES

ALARM ENGINEERS 11145 TAMPA AVE. SUITE #24B NORTH RIDGE, CA. 91326

FAX. (818) 831-5391 TEL. (818) 831-5390

LIC. # C10 867596

UNITS APARTMENT BUILDING

20223-20237 W. SATICOY STREET WINNETKA, CALIFORNIA 91306

PHONE NUMBER.

Project

	F	Revisions	
No.	Date	Description	
	5/5/06	FIRST RELEASE	
\triangle			

YES

YES

FIRE ALARM SYSTEM NOTES, SYMBOLS & DETAILS

BILL OF MATERIAL / SYMBOL LIST

MODEL #

EST-2

5104

ENVOY

BPS-6

SIGA-CC1

SIGA-CT2

SIGA-CR

M46 - 28

SIGA-CT1

SIGA-270

SIGA-PS

SIGA-SB

SIGA-HRS

SIGA-SB

SIGA-SD

G1-HDVM

GC-HDVM

G1-VM

GC-VM

757-8A-T

MIZ-24S-W

DH-24120

C.S.F.M.

7170-1591:195

7165-0559:114

7120-1591;196

7300-1591:229

7300-1591:121

7300-1591:121

7300-1591:121

7150-1288:108

7300-1591:121

7150-1591:129

7272-1591:126

7300-1591:120

7270-1591:125

7300-1591:120

3240-1591:108

7125-1591:202

7135-0569:122

7125-1591:218

7135-0569:123

7125-1591:202

7135-0785:150

3550-1039:100

MANUFACTURER

GS BLDG. SYSTEM

GS BLDG. SYSTEM

G.S. BLDG. SYSTEM

GS BLDG. SYSTEMS

GS BLDG. SYSTEMS

GS BLDG. SYSTEMS

GS BLDG. SYSTEMS

G.S. BLDG. SYSTEM

BY OTHERS. CONNECTION ONLY

BY OTHERS, CONNECTION ONLY

WHEELOCK

RSG

GAMEWELL

SILENT KNIGHT

FA-01

Sheet Number:

QTY.

13

11

52

28

ROUGH-IN BOX

2-WBDS

PROVIDED

PROVIDED

PROVIDED

4"S BOX

4"S SINGLE GANG RING

4"S SINGLE GANG RING

28762 W/50397

4"S SINGLE GANG RING

4"S W/SINGLE GANG RING

4"S WITH 3-O-RING

4"S WITH 3-O-RING

PROVIDED

4"S W/SINGLE GANG

4"S

SINGLE GANG

4"S

757-WB

SINGLE GANG