## Notes:

- 1. THE ELECTRICAL CONTRACTOR MUST PROVIDE THE FIRE ALARM CONTRACTOR WITH ACCURATE MARKED UP DRAWINGS SHOWING ALL JUNCTION BOXES, TERMINAL CABINETS, DEVICE LOCATIONS, ETC. FOR THE USE IN MAKING "RECORD DRAWINGS". THE FIRE ALARM COMPANY WILL REVISE DRAWINGS ACCORDINGLY.
- 2. CONDUIT ROUTING AND CONDUIT SIZE SHALL BE DETERMINED BY THE CONTRACTOR, IN CONJUNCTION WITH (NEC), AND INDICATED ON THE RECORD DRAWINGS. CONDUIT FILL SHALL NOT EXCEED 40%.
- 3. FIRE ALARM WIRING SHALL BE INSTALLED PER (NEC) AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- 4. SMOKE DETECTORS SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW NOR CLOSER THAN 3 FEET OF ANY AIR SUPPLY DIFFUSER.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT EDITION OF U.B.C., TITLE 19, TITLE 24, NFPA, AND AMERICANS WITH DISABILITIES ACT (ADA) AS REQUIRED BY THE GOVERNING AGENCIES.
- 6. PRIMARY POWER SOURCE (120VAC) TO FACP AND POWER SUPPLIES MUST BE ON A DEDICATED BRANCH CIRCUIT, FROM THE EMERGENCY GENERATOR (IF APPLICABLE), WITH THE DISCONNECTING MEANS MARKED "FIRE ALARM CONTROL CIRCUIT". THE LOCATION OF THE DISCONNECT MUST BE IDENTIFIED AT THE FACP AND POWER SUPPLIES. ALL FIRE ALARM CIRCUIT BREAKERS MUST BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING.
- 7. WHEN POWERING UP THE FACP OR REMOTE POWER SUPPLIES BE SURE TO APPLY AC VOLTAGE BEFORE DC VOLTAGE. WHEN POWERING DOWN REMOVE DC SUPPLY BEFORE AC DISCONNECT.
- 8. DEVICE POLARITY MUST BE OBSERVED.
- 9. ALL INITIATING AND NOTIFICATION CIRCUIT WIRING MUST BE SUPERVISED.
- 10. ALL WIRING, INCLUDING SHIELDS, MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- 11. STROBE DEVICES SHALL BE SYNCHRONIZED.
- 12. AUDIBLE DEVICES SHALL USE SYNCHRONIZED TEMPORAL (CODE 3) TONE.
- 13. ALL DEVICES SHALL BE LABELED WITH THEIR ADDRESS OR CIRCUIT NUMBER.
- 14. PROVIDE WEATHER PROOF NEMA ENCLOSURES TO ALL DEVICES THAT ARE EXPOSED TO THE ENVIRONMENT.
- 15. DIFFERENTIAL PRESSURE TESTING FOR DUCT DETECTORS MUST BE PERFORMED BY THE MECHANICAL CONTRACTOR AFTER AIR HANDLER SYSTEMS HAVE BEEN BALANCED. A WRITTEN COPY OF THESE TESTS SHALL BE TURNED OVER TO THE ENGINEER PRIOR TO SYSTEM FINAL.
- 16. ALL DUCT DETECTORS TO BE INSTALLED PER MANUFACTURER INSTALLATION INSTRUCTION AND ALL APPLICABLE NFPA, UBC AND UMC STANDARDS
- 17. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRE, BACK BOX, TERMINAL CABINETS, AS REQUIRED TO COMPLETE THE PROJECT.
- 18. ALL JUNCTION BOXES MUST HAVE RED COVERS, TERMINAL CABINETS MUST BE MARKED "FATC".
- 19. ALL FIRE ALARM DEVICES MUST BE INSTALLED IN A PROPER BACK BOX. NO DEVICE SHALL BE INSTALLED WITHOUT A BACK BOX.
- 20. PROVIDE GROUND ROD, OR COLD WATER COPPER PIPE OK IF WATER METER STRAPPED, FOR PROPER GROUNDING OF THE FIRE ALARM PANEL AND REMOTE POWER SUPPLIES.
- 21. INITIATING DEVICE CIRCUITS (IDC) AND NOTIFICATION APPLIANCE CIRCUITS (NAC), ARE TWO WIRE CLASS "B". NO T-TAPPING IS ALLOWED ON ANY OF THESE CIRCUITS.
- 22. SIGNALING LINE CIRCUITS (SLC) ARE TWO WIRE DATA COMMUNICATIONS CIRCUITS. T-TAPPING IS NOT ALLOWED.

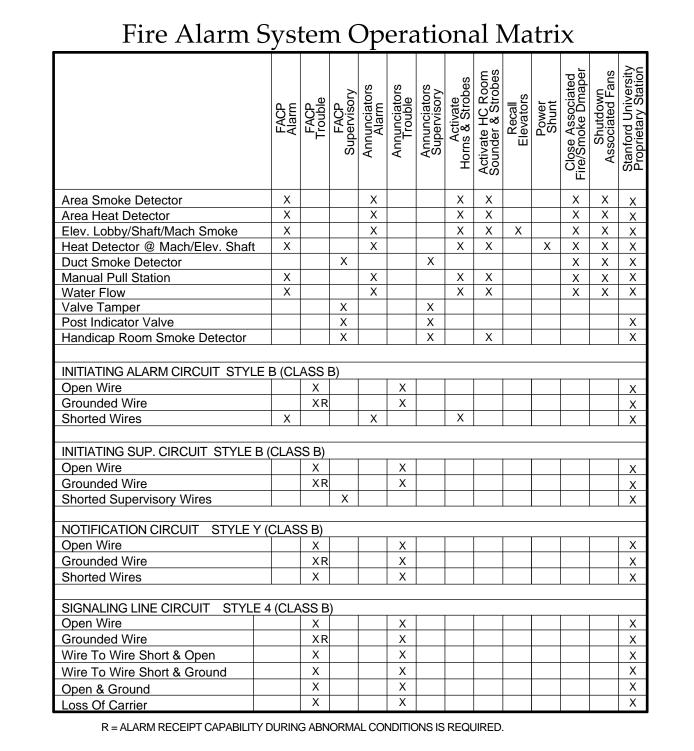
Style/Circuit Designations (per NFPA 72, 1996 edition):

INITIATING DEVICE CIRCUITS (IDC) = CLASS "B", STYLE "B"

SIGNALLING LINE CIRCUITS (SLC) = CLASS "B", STYLE "4"

NOTIFICATION APPLIANCE CIRCUITS (NAC) = CLASS "B" STYLE "Y"

Sample Drawings Only -Not For Distribution



Symbol & CSFM List

		Symbol & CSI W Elst															
				DEVICE QUANTITIES							ES						
Symbol	Description	Model Number	Manufacturer	S	tudio 2	5 - by 3	/ Floo 4	r	Common	G	tudio 2	6 - by	y Floc		Total	CSFM Listing #	Backbox
												Т	<u> </u>		Total		Backbox
FACP	Fire Alarm Control Panel	AFP-400	Notifier	1	0	0	0	0	0	1	0	0	0	0	2	7165-0028:181	custom
	Relay Module	ACM-8R	Notifier	2	0	0	0	0	0	2	0	0	0	0	4	7120-0028:156	mounts in FACP cabinet
	Battery, 25 AH	PS12250	PowerSonic	2	0	0	0	0	0	2	0	0	0	0	4		
ANN	Remote Annunciator	LCD-80	Notifier	1	0	0	0	0	0	1	0	0	0	0	2	7120-0028:156	custom
FH	Manual Pull Station	NBG-12LX	Notifier	8	4	4	4	1	6	8	4	4	4	1	48	7150-0028:199	4" sq x 1-1/2" deep with 1 gang ring
(SD)H	Stand Alone 120v Smoke Detector (F.B.O., for reference only)	4120B	BRK	30	36	38	39	0	0	30	36	38	39	0	286		
<b>SD</b>	Smoke Detector	FSP-751	Notifier	23	22	21	21	2	6	23	22	21	21	2	184	7272-0028:206	B710LP Base
ABSDH	Smoke Detector w/sounder base	FSP-751	Notifier	8	4	4	4	0	0	8	4	4	4	0	40	7272-0028:206	B501BH Sounder Base
HD	Heat Detector	FST-751R	Notifier	1	0	0	0	1	1	1	0	0	0	1	5	7270-0028:196	B710LP Base
	Detector Base	B710LP	Notifier	24	22	21	21	3	7	24	22	21	21	3	189	7300-0029:173	4" sq x 1-1/2" deep with 3/0 ring
	Detector Sounder Base	B501BH	Notifier	8	4	4	4	0	0	8	4	4	4	0	40	7300-1209:128	4" sq x 2-1/8" deep box
DD	Duct Smoke Detector	FSD-751RP	Notifier	0	0	0	0	4	0	0	0	0	0	4	8	3240-0218:205	
FSD	Fire Smoke Damper	F.B.O.		4	4	4	4	0	0	4	4	4	4	0	32		
WF	Waterflow Switch	F.B.O. w/ FMM-101		4	3	3	3	0	2	4	3	3	3	0	28		
VT	Valve Tamper Switch	F.B.O. w/ FMM-101		4	3	3	3	0	2	4	3	3	3	0	28		
PIV	Sprinkler PIV Switch	F.B.O. w/ FMM-101		1	0	0	0	0	0	1	0	0	0	0	2		
ММ	Monitor Module	FMM-101	Notifier	16	8	7	7	0	4	16	8	7	7	0	80	7300-0028:202	mounts in box of device being monitore
СМ	Control Module	FCM-1	Notifier	10	5	5	6	0	2	10	5	5	6	0	54	7300-0028:202	4" sq x 1-1/2" deep box
R	Control Relay	FRM-1	Notifier	8	0	0	0	4	0	8	0	0	0	4	24	7300-0028:202	4" sq x 1-1/2" deep box
R	Control Relay	MR-101/C	Air Products	7	0	0	0	4	0	7	0	0	0	4	22	7300-1004:101	custom
EOLR	End of Line Relay	A77-716B	System Sensor	4	1	1	1	0	0	4	1	1	1	0	14	7300-1209:161	mounts in box of device being monitore
APS	Aux Power Supply	FCPS-24	Notifier	2	2	2	3	0	1	2	2	2	3	0	19	7315-0028:178	custom
	Battery, 7 AH	PS1270	PowerSonic	4	4	4	6	0	2	4	4	4	6	0	38		
DSM	Dual Sync Module	DSM	Wheelock	4	4	4	6	0	0	4	4	4	6	0	36	7300-0785:132	4-11/16" sq x 2-1/8" deep box
<b></b> 15  15  15  15  15  15  15  15  15  1	Horn Strobe, 15 candela	NS4-24MCW-FW	Wheelock	10	9	9	8	7	0	10	9	9	8	7	86	7125-0785:142	4" sq x 1-1/2" deep with 1 gang ring
<b>□</b> 110H	Horn Strobe, 110 candela	NS4-24MCW-FW	Wheelock	11	6	6	6	1	4	11	6	6	6	1	64	7125-0785:142	4" sq x 1-1/2" deep with 1 gang ring
DHH.	Horn	NH-24	Wheelock	30	36	38	39	0	0	30	36	38	39	0	286	7125-0785:142	4" sq x 1-1/2" deep with 1 gang ring
WP DH	Horn, Weather Proof	AH-24WP-R	Wheelock	5	0	0	0	0	3	5	0	0	0	0	13	7125-0785:131	4" sq x 1-1/2" deep with 1 gang ring
<b>∑</b> 15H	Strobe, 15 candela	RSS-24MCW-FW	Wheelock	8	4	4	4	0	2	8	4	4	4	0	42	7125-0785:141	4" sq x 1-1/2" deep with 1 gang ring
WP H	Strobe, Weatherproof	WM3T-24-VFR	Wheelock	4	0	0	0	0	3	4	0	0	0	0	11	7300-0785:011	WBB backbox
DHPS	Door Holder Power Supply	PS5-BFS-24-UL	Alarm Saf	1	0	0	0	0	0	1	0	0	0	0	2	7315-1214:100	custom
DH	Magnetic Door Holder	FMM-998-24	Notifier	7	7	7	7	0	0	7	7	7	7	0	56	3550-0028:177	2" x 4" x 1-3/4" deep box
FCPS	Constant Power Supply	FCPS-24	Notifier	1	1	0	0	0	0	1	1	0	0	0	4	7315-0028:178	custom
	Battery, 7 AH	PS1270	PowerSonic	2	2	0	0	0	0	2	2	0	0	0	8		
J	Junction Box			6	4	4	4	1	0	6	4	4	4	1	38		

## Project Directory:

OWNER'S REPRESENTATIVE PLUMBING & H.V.A.C. Susan Rozakis

Capital Planning and Management

Design Engineering Services 82 Second St. San Francisco, CA 94105 Tel: (415) 546-7905 Fax: (415) 495-6352

ELECTRICAL ENGINEER

DESIGN ARCHITECTS

246 First St. Suite 400

San Francisco, CA 94105

ARCHITECT OF RECORD

Tel: (415) 227-4081

Fax: (415) 777-5306

Stanford, CA 94305-6114

Stanford University

Tel: (650) 723-1813

Fax: (650) 723-7444

Solomon E.T.C.

655 Serra Street

1st Engineering 155 East Campbell, Suite 107 Campbell, CA 95008 Tel: (408) 370-3170 Fax: (408) 370-3172

CIVIL ENGINEER

James Guthrie and Associates, Architects 1 Water Park Drive Suite 108 San Mateo, CA 94403 Tel: (650) 572-1911 Fax: (650) 572-0977

Brian Kangas Foulk 4780 Chabot Drive Suite 104 Pleasanton, CA 94588-3323 Tel: (925) 396-7700 Fax: (925) 396-7799

STRUCTURAL ENGINEER

Dominic Chu 3724 S. El Camino Real San Mateo, CA 94403 Tel: (650) 578-9899 Fax: (650) 578-0240

SWA Group 2200 Bridgeway Boulevard

LANDSCAPE ARCHITECT

Sausalito, CA 94966-5906 Tel: (415) 332-5100 Fax: (415) 332-0719

CONCRETE ENGINEER

CEC Engineering International 100 Park Place Suite 1555 San Ramon, CA 94583 Tel: (925) 831-6155 Fax: (925) 831-6189

Hesselberg Keesee

**ELEVATOR CONSULTANT** 

221 Main St. Suite 1580 San Francisco, CA 94105 Tel: (415) 243-0313 Fax: (415) 243-0781

**Building Information:** 

GENERAL DESCRIPTION:

Two 4 stories buildings housing 163 graduate student apartments each plus one Commons building, 1 story in height housing student services and support facilities.

SPRINKLERS:

Fully sprinkled, NFPA 13, 1996 Version, Light Hazard

OCCUPANCY TYPE:

RESIDENTIAL <u>COMMONS</u>

**OCCUPANCY SEPARATIONS:** 

CONSTRUCTION TYPE:

Type V, 1hr Residential

1-hour

Type V NR

Drawing Schedule:

FA2.6-C Commons Building Floor Plan FA0.0-5 Project Information FA1.1-5 Detail Sheet FA2.0-6 Studio 6 Riser Diagram FA1.2-0 Elevation Details FA2.1-6 Studio 6 Ground Floor Plan FA1.2-2 Studio 5 System Calculations FA2.2-6 Studio 6 Second Floor Plan FA1.2-3 Studio 5 System Calculations FA2.3-6 Studio 6 Third Floor Plan FA1.2-4 Studio 5 System Calculations FA2.4-6 Studio 6 Fourth Floor Plan FA1.2-5 Studio 5 System Calculations FA2.5-6 Studio 6 Attic Floor Plan FA1.2-6 Studio 6 System Calculations FA6.0 Product Data Sheets FA1.2-7 Studio 6 System Calculations FA6.1 Product Data Sheets FA1.2-8 Studio 6 System Calculations FA6.2 Product Data Sheets FA1.2-9 Studio 6 System Calculations FA6.3 Product Data Sheets FA2.0-5 Studio 5 Riser Diagram FA6.4 Product Data Sheets FA2.1-5 Studio 5 Ground Floor Plan FA7.0 CSFM Listing Sheets FA2.2-5 Studio 5 Second Floor Plan FA7.1 CSFM Listing Sheets FA2.3-5 Studio 5 Third Floor Plan

**SYSTEM** 

**AECO SYSTEMS 28302 Industrial Blvd - Suite** *A* Hayward, CA 94545

(510) 342-0008

FAX (510) 342-0013

STANFORD UNIVERSITY E.V. INFILL GRADUATE STUDENT HOUSING

Studio 5 & Studio 6 - Wellesley Site

Palo Alto, CA

JΙV	DESCRIPTION	DATE	Drawn By.	A. EBY		
			Date:	11/07/01	STUDIO 5 & 6	
			Scale:	NONE	PROJECT INFORMATI	
			Job No:	50090		
					FIRE ALARM	

FA2.4-5 Studio 5 Fourth Floor Plan

FA2.5-5 Studio 5 Attic Floor Plan

FA0.0-5

Sheet Number