FIRE ALARM SYSTEM

CANADA COLLEGE

ATHLETIC FIELD (MODULAR BUILDINGS)

4200 FARM HILL BLVD. REDWOOD CITY, CA 94061

	DRAWING INDEX	
SHEET NO.	SHEET CONTENTS	CAD FILENAME
1	COVER SHEET / DRAWING INDEX / EQUIPMENT LIST	01-COV.DWG
2	MISCELLANEOUS FIRE ALARM DETAILS	02-MISC.DWG
3	EXISTING FIRE ALARM PANEL BUILDING 1	03-B1-MXLR.DWG
4	WHEELOCK P.S. DETAILS AND RISER DIAGRAM	04-PS.DWG
5	WIRING DETAIL OF FIELD DEVICES	05-WD.DWG
6	SITE PLAN AND FIRE ALARM FLOOR PLAN	06-FP.DWG
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

CODE SUMMARY

APPLICABLE CODES

1997 UBC and 2001 California Amendments Volumes 1 & 2 (2001 California Building Code — Part 2, Title 24, CCR) 1999 NEC and 2001 California Amendments (2001 California Electrical Code — Part 3, Title 24, CCR) 2000 UMC and 2001 California Amendments (2001 California Mechanical Code - Part 4, Title 24, CCR) 2000 UPC and 2001 California Amendments (2001 California Plumbing Code — Part 5, Title 24, CCR) 2000 UFC and 2001 California Amendments (2001 California Fire Code — Part 9, Title 24, CCR) 1999 NFPA 72 National Fire Alarm Code And All Amendments and Additions to the Above TITLE 19 PUBLIC SAFETY-California State Fire Marshal Requirements

SCOPE OF WORK

This project, as designed by IDEAS and pre-approved by DSA, extends the Campus fire alarm system to the new Athletic Field Buildings and includes automatic detection and occupant notification as indicated herein.

MXLR - FIRE ALARM SYSTEM WIRING GUIDELINES

- 1. ALL WIRING MUST COMPLY WITH LOCAL AND CALIFORNIA ELECTRICAL CODES. ALL WIRING MUST BE DONE AS DESCRIBED IN NOTES 2 & 6 BELOW, TO OBTAIN SAFE AND PROPER SYSTEM OPERATION.
- 2. EARTH GROUND THE MXLR ENCLOSURE PROPERLY; SEE LATEST EDITION OF NATIONAL ELECTRICAL CODES FOR APPROVED METHODS. CONDUIT GROUND
- 3. SEPARATE ALL WIRING FOR INITIATING DEVICES (i.e., DETECTORS, MANUAL STATIONS, TRI MODULES, ETC) FROM ALL OTHER WIRING IN THE MXLR
- 4. INSULATE ALL CABLE DRAIN WIRES FROM ANY CONDUIT OR OTHER EARTH GROUNDED ELECTRICAL BOX, INCLUDING THOSE IN THE MXLR ENCLOSURE

6. EARTH GROUND ALL CONDUIT RUNS THROUGHOUT THE INSTALLATION.

- 5. CONNECT SHIELD CABLE DRAIN WIRE ONLY AT SPECIFIED LOCATION INSIDE THE MXLR ENCLOSURE.
- 7. LINE RESISTANCE IS MEASURED AT THE ALD-21 MODULE SCREW TERMINALS. THE END OF THE LOOP MUST BE SHORTED, THE ALD-21 MODULE MUST BE REMOVED FROM THE SCREW TERMINALS, AND NO ADDRESSABLE DEVICES
- 8. LINE CAPACITANCE IS MEASURED AT THE ALD-21 MODULE SCREW TERMINALS THE END OF THE LOOP(S) MUST BE OPEN. THE ALD-21 MODULE MUST BE REMOVED FROM THE SCREW TERMINALS AND NO ADDRESSABLE DEVICES MAY BE INSTALLED.
- 9. ALL 110/120 VAC CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT 10. ALD-2I LOOP WIRING MUST NOT BE IN THE SAME CONDUIT AS CODED
- 11. ALL INITIATING CIRCUITS ARE RATED POWER LIMITED AND SHALL BE
- WIRED IN ACCORDANCE WITH APPLICABLE CODES.
- 12. UNDERGROUND WIRING IS PERMISSIBLE IF ALL NEC WIRING REQUIREMENTS
- 13. OVERHEAD OR EXTERIOR WIRING IS NOT RECOMMENDED.

GENERAL ELECTRICAL NOTES

- 1. ALL WIRING AND INSTALLATION MUST CONFORM WITH PROJECT SPECIFICATIONS, APPLICABLE CODE SUMMARIES AND REQUIREMENTS ADOPTED BY THE CITY. 2. SMOKE DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIRFLOW NOR CLOSER THAN 3 FEET (1 m) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. PER NFPA 72 (CHAPTER A-2-3.5.1) 1999 EDITION.
- 3. ALL SMOKE DETECTORS AND INITIATING DEVICES SHALL BE INSTALLED MINIMUM 3 FEET AWAY FROM ELECTRONIC BALLAST (LIGHTING FIXTURES).
- 4. WHEN INSTALLING INITIATING AND NOTIFICATION DEVICES, POLARITY MUST BE OBSERVED.
- 5. ALL NOTIFICATION CIRCUIT WIRES MUST BE SUPERVISED. HENCE, NO PARALLEL BRANCHING OF WIRES IS PERMISSIBLE (T-TAPPING). ALL AUDIBLE SIGNALING DEVICES SHALL PRODUCE A DISTINCTIVE THREE-PULSE TEMPORAL TONE, AT 10' OR AT LEAST 15dbA ABOVE THE AVERAGE AMBIENT SOUND LEVEL, WHICHEVER IS GREATER, BUT NOT MORE THAN 120dbA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE (PER NFPA 72 CH. 4-3.2.1, 1999 ED.) WHEN MORE THAN TWO (2) VISUAL DEVICES ARE IN THE SAME VIEWING PLANE THE VISUAL DEVICES SHALL BE SYNCHRONIZED AS REQUIRED BY NFPA 72 CHAPTER 4, 1999 EDITION.
- 6. DO NOT INSTALL ADDRESSABLE DEVICES PRIOR TO PROGRAMMING. (SEE NOTE 15)
- 7. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT SEPARATE FROM 120 VAC WIRING, IN ACCORDANCE WITH CURRENT NATIONAL AND STATE
- 8. CONDUIT SIZING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND SHALL CONFORM TO CONDUIT FILL CAPACITIES AS PER REQUIREMENTS OF CURRENT EDITIONS OF NATIONAL AND STATE ELECTRICAL CODES.
- 9. DO NOT APPLY 120 VAC POWER TO CONTROL PANEL UNTIL A SIEMENS FIRE SAFETY SERVICE TECHNICIAN HAS INSPECTED ALL SYSTEM WIRING CONNECTIONS AND HAS APPROVED THE SYSTEM TO BE TURNED ON.
- 10. ALL PLUG-IN TYPE DETECTORS REQUIRE A 4" OCTAGONAL, 1-1/2" OR DEEPER MOUNTING BOX. REFER TO DETAIL DRAWINGS FOR DEVICE WIRING AND MOUNTING CONDITIONS. 11. 120 VAC INPUT CONNECTIONS TO THE FIRE ALARM CONTROL PANEL
- SHALL BE ON DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTION SHALL HAVE A RED MARKING. SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECTING BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- 12. INSTALLATION MATERIALS SUCH AS CONDUITS, FITTINGS, JUNCTION BOXES, TERMINAL CABINETS, PULL BOXES, HANGERS, ETC. ARE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE FROM DEVICE TERMINAL TO DEVICE TERMINAL SPLICES AND WIRE NUTS ARE NOT
- 13. ANY DEVIATION FROM THE DESIGN AND LOCATION OF EQUIPMENT SHOWN MUST FIRST HAVE A WRITTEN APPROVAL FROM SIEMENS FIRE SAFETY. ANY DEVIATION FROM DESIGN MUST ALSO BE INDICATED ON SIEMENS FIRE SAFETY SHOP DRAWINGS (BLUEPRINTS) AND RETURNED TO SIEMENS FIRE SAFETY AT TIME OF JOB COMPLETION.
- 14. THE DRAWINGS REPRESENT A SIEMENS FIRE SAFETY ENGINEERED FIRE ALARM SYSTEM PER CONTRACTUAL DESIGN DRAWINGS AND SPECIFICATIONS. a) CONTRACTOR SHALL NOT DEVIATE BY NOT MORE THAN 5% FROM THE FINAL APPROVED SHOP DRAWINGS.

b) WIRE RUNS HAVE BEEN ENGINEERED TO COMPLY WITH SPECIFIC VOLTAGE

- DROP REQUIREMENTS. ANY DEVIATION FROM SHOWN WIRE RUNS WHICH RESULTS IN NONCOMPLIANCE WITH VOLTAGE DROP REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. c) THESE SUBMITTED SHOP DRAWINGS ARE COMPLETE. SIEMENS FIRE SAFETY SHALL NOT BEAR ANY ADDITIONAL COSTS OF RE-ENGINEERING RECORD DRAWINGS (AS-BUILTS).
- 15. ALL SMOKE DETECTORS (NEW OR EXISTING) SHALL BE PROTECTED FROM DUST AND DEBRIS DURING CONSTRUCTION. SMOKE-SENSING DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL. PER NFPA 72 (CHAPTER 2-3.6.1.3)
- Exception: WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION. DETECTORS THAT HAVE BEEN INSTALLED DURING CONSTRUCTION AND FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED OR REPLACED AT AN ADDITIONAL COST TO THE CONTRACTOR.
- 16. IF REQUIRED BY THE OWNER OR CONTRACT, LABELING OF FIELD DEVICES SHALL BE SUPPLIED BY THE INSTALLING CONTRACTOR.
- 17. THE UL LISTED CENTRAL STATION MONITORING SYSTEM AND HAS A DEDICATED TELEPHONE LINE CONNECTION FROM THE FACP TO THE CENTRAL STATION MONITORING SITE. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE FIRE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION IS LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SIGNAL FROM FACP HAS PROVISIONS TO DISTINGUISH BETWEEN:
- TAMPER SWITCH TROUBLE SIGNAL
- WATER FLOW SWITCH ALARM AND TROUBLE SIGNALS
- MANUAL PULL STATIONS AND AUTOMATIC FIRE SMOKE DETECTORS ALARM ALARM AND TROUBLE SIGNALS

FIRE ALARM EQUIPMENT LIST										
CATE- GORY	ITEM NO.	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER		
POWER SUPPLY	1	RNPS	1	PS-12/24-8MP	POWER BOOSTER POWER SUPPLY PANEL	WHEELOCK		7315-0785:162		
	2		2	UB1270	7 AMP-HOUR BATTERY (12 VDC)	UNIV. BATT.		Not Applicable		
FIELD DEVICES & SYSTEM PERIPHERALS	3	AM	3	TRI-B6M	INTERFACE MODULE, SINGLE INPUT (MINIATURE)	SIEMENS	7300-0067:146			
	4	$\langle H \rangle$	3	FPT-11	INTELLIGENT THERMAL FIRE DETECTOR	SIEMENS	6176	7270-0067:202		
	5		3	DB-11	DETECTOR BASE FOR FP-11 DETECTOR	SIEMENS	6176	7300-0067:134		
	6	Ής	4	DT-200R	RATE OF RISE/FIXED TEMP 200 DEGREE	SIEMENS	6130	7270-0067:156		
	7	₩₽	1	AH-24WP-R	WEATHERPROOF HORN	WHEELOCK		7125-0785:131		
	8		1	WBB-R	WEATHERPROOF BACKBOX	WHEELOCK		7125-0785:131		
	9		1	STI-9623 HORN/STROBE GUARD		STI		Not Applicable		
	10	▼ 15CD			MULTI CANDELA HORN/STROBE, 15cd (Red) Wall Mtd.	WHEELOCK		7125-0785:142		
	11	▼ 30CD	0	NC 24MOW ED	MULTI CANDELA HORN/STROBE, 30cd (Red) Wall Mtd MULTI CANDELA HORN/STROBE, 75cd (Red) Wall Mtd			7125-0785:142		
	12	▼ 75CD	2	NS-Z4MCW-FK				7125-0785:142		
	13	¥ 110CD			MULTI CANDELA HORN/STROBE, 110cd (Red) Wall Mtd.	WHEELOCK		7125-0785:142		
ILLANEOUS YMBOLS	14				JUNCTION BOX	PROVIDED BY OTHERS				
	15	\$			END-OF-LINE	PROVIDED BY OTHERS				
	16									
≅	17									

CONTROL PANELS	1 2 3	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
CONTROL PANEL	2							CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
CONTROL PANEL			7	MME-KIT	MXLR MEDIUM STANDARD ENCLOSURE	SIEMENS	5056	7300-0067:17
CONTROL PANEL	7		7	MDB-1	SHEET METAL BLANK (LOWER DOOR OPENING)	SIEMENS	5056	7300-0067:17
CONTROL PANEL	١		7	PSR-1	REMOTE POWER SUPPLY	SIEMENS	5010	7170-0067:15
CONTROL F	4		7	NET-7	NETWORK INTERFACE CARD (CLASS A)	SIEMENS	5012	7170-0067:15
	5		16	MOM-4	OPTION MODULE CARD CAGE	SIEMENS	5004	7300-0067:17
	6		8	ALD-2I	ANALOG LOOP DRIVER MODULE	SIEMENS	5036	7300-0067:17
	7		7	MPS-12	POWER SUPPLY w/ TRANSFORMER, 12 AMPS	SIEMENS	5035	7170-0067:15
F. A.	8	FACP	2	UB12550	55 AMP/HOUR BATTERIES	UNIVERSAL		Not Applicable
ш	9	_	7	CP2341	SURGE SUPPRESSOR	SIEMENS		7300-0067:172
REMOT	10		7	CSM-4	CONTROLLABLE SIGNAL MODULE	SIEMENS	5001	7165-0067:144
1	11		7	MKB-2	MXL DISPLAY/KEYBOARD	SIEMENS	5026	7165-0067:144
MXLR	12		7	MHD-1	DEAD FRONT PANEL	SIEMENS	5056	7300-0067:172
2	13		7	MDL-1	CLEAR PLEXIGLAS LENS	SIEMENS	5056	
	14		7	MHD-2	DEAD FRONT PANEL	SIEMENS	5056	7300-0067:172
	15		7	BB-55	BATTERY CABINET	SIEMENS		7300-0067:172
SUPP.	19		13	PS-12/24-8MP	POWER BOOSTER POWER SUPLY	WHEELOCK		7315-0785:162
₩. - -	20	NAC	26	UB1270	7 AMP/HOUR BATTERY, 12 VDC	UNIV BATT		Not Applicable
HATOR	22	7		PLM-35	POWER-LIMITING MODULE	SIEMENS		
ANNUNCIATOR	23	A	9	RCC-1F	FIRE COMMAND CENTER/ANNUNCIATOR, FLUSH MOUNTED	SIEMENS	5039	7300-0067:152
	25	TRI-R	19	TRI-R	INTELLIGENT INTERFACE MODULE, W/ RELAY	SIEMENS	6179	7300-0067:146
	26	TRI-M	13	TRI-B6M	SIEMENS	6170	7300-0067:146	
	27	TRI-D	5	TRI-D	INTELLIGENT INTERFACE MODULE, DUAL INPUT	SIEMENS	6179	7300-0067:146
	28	(3)	53	FP-11	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR	SIEMENS	6175	7272-0067:203
	30	(SD)	53	DB-11	DETECTOR BASE FOR FP-11 DETECTOR	SIEMENS	6175	7300-0067:134
	31				INTELLIGENT THERMAL FIRE DETECTOR	SIEMENS	6176	7272-0067:202
	32				INTELLIGENT DUCT SMOKE DETECTOR	SIEMENS	6175	7272-0067:203
	33	DD	17	AD-11XPR	DUCT DETECTOR HOUSING & RELAY	SIEMENS	6178	3240-0067:116
DEVICES	34		17	STA-3	DUCT DETECTOR SAMPLING TUBE	SIEMENS	6178	Not Applicable
DEV	35	\boxtimes	76	MSI-10B	INTELLIGENT MANUAL PULL STATION	SIEMENS	6187	7150-0067:036
NOI	36	M <u>-</u>	20	MSM-K-WP	WEATHERPROOF PULL-STATION, CONVENTIONAL	SIEMENS	6184	7150-0067:036
OTIFICATION	37	⊠wp	20	TRI-B6M	INTELLIGENT MONITOR MODULE, MINIATURE	SIEMENS	6170	7300-0067:146
NOT [38	15cd			MULTI CANDELA WALL MOUNTED HORN/STROBE, 15 Candela	WHEELOCK		7125-0785:142
શ્ર [39	√ 30cd	167	NS-24MCW-FR	MULTI CANDELA WALL MOUNTED HORN/STROBE, 30 Candela	WHEELOCK		7125-0785:142
INITIATING	40	75cd	167	N3-24MCW-FR	MULTI CANDELA WALL MOUNTED HORN/STROBE, 75 Candela	WHEELOCK		7125-0785:142
M M M M M M M	41	110cd			MULTI CANDELA WALL MOUNTED HORN/STROBE, 110 Candela	WHEELOCK		7125-0785:142
	42	T 15cd CM			MULTI CANDELA CEILING HORN/STROBE, 15 Candela	WHEELOCK		7125-0785:131
	43	√ 30cd CM	_		MULTI CANDELA CEILING HORN/STROBE, 30 Candela	WHEELOCK		7125-0785:131
	44	75cd CM	3	AS-24MCC-FR	MULTI CANDELA CEILING HORN/STROBE, 75 Candela	WHEELOCK		7125-0785:131
	45	110cd CM			MULTI CANDELA CEILING HORN/STROBE, 110 Candela	WHEELOCK		7125-0785:131
	46	SL ^{15cd}			MULTI CANDELA WALL-MOUNTED STROBE, 15 Candela	WHEELOCK		7125-0785:141
	47	SL)30cd	SL ^{30cd}	DCC 04HOW TO	MULTI CANDELA WALL-MOUNTED STROBE, 30 Candela	WHEELOCK		7125-0785:141
	48	SL)75cd		RSS-24MCW-FR	MULTI CANDELA WALL-MOUNTED STROBE, 75 Candela	WHEELOCK		7125-0785:141
	49	SL)110cd			MULTI CANDELA WALL-MOUNTED STROBE, 110 Candela	WHEELOCK		7125-0785:141
	50	SL ^{15cd} CM			MULTI CANDELA CEILING MOUNT STROBE, 15 Candela	WHEELOCK		7125-0785:141
	51	SL ^{30cd} CM	0	RSS-24MCC-FR	MULTI CANDELA CEILING MOUNT STROBE, 30 Candela	WHEELOCK		7125-0785:141
	52	SL ^{75cd} CM	J	ACC ZTIVICCTER	MULTI CANDELA CEILING MOUNT STROBE, 75 Candela	WHEELOCK		7125-0785:14
	53	SL ^{110cd} CM			MULTI CANDELA CEILING MOUNT STROBE, 110 Candela	WHEELOCK		7125-0785:14
	54	D H	16	NH-12/24-R	INDOOR HORN	WHEELOCK		7125-0785:13
	55	∀ H wp	29	AH-24WP-R	WEATHERPROOF HORN	WHEELOCK		7125-0785:13
	56	Ľ□ WP	29	WBB	WEATHERPROOF BACKBOX	WHEELOCK		7125-0785:13
	57	DSM	1	DSM-12/24	DUAL SYNCHRONIZATION MODULE	WHEELOCK		7300-0785:132
ဂျ	58	FSD	_	BY OTHERS	FIRE SMOKE DAMPERS	PROVIDED BY OTHERS		
SYMBOL	59	FATC	_	BY OTHERS	FIRE ALARM TERMINAL CABINET	PROVIDED BY OTHERS		
-	60	WF	_	BY OTHERS	WATERFLOW SWITCH (BY OTHERS)	PROVIDED BY OTHERS		
MISC.	61	TS	_	BY OTHERS	TAMPER SWITCH (BY OTHERS)	PROVIDED BY OTHERS		

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CK		7315-0785:162	No.	Revisio	n						Ву	Dat
TT.		Not Applicable										
S	6170	7300-0067:146										
S	6176	7270-0067:202										
S	6176	7300-0067:134										
	6130	7270-0067:156										
CK		7125-0785:131										
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		Not Applicable										
CK		7125-0785:142										
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TO OTHERS FOR PROCUREMENT OR OTHER AS OTHERWISE AUTHORIZED BY CONTRACT RMISSION OF SIEMENS BUILDING TECHNO-

FETY DIVISION. ALL OTHER REPRODUCTIONS



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U.L. Certificate ID No. 324787-001 JOB NAME & LOCATION (STREET ADDRESS)

CANADA COLLEGE

4200 FARM HILL BLVD. REDWOOD CITY, CA 94061

ATHLETIC FIELD PROJECT MODULAR BUILDINGS

SHEET CONTENTS:

INSTALLATION TYPE

COVER SHEET/DRAWING INDEX/EQUIPMENT LIST

 □ DESIGN/BUILD □ PER CONTRACT DOCUMENT OTHERS ____

SYSTEM SALES REP.: K. Rogers PROJECT MANAGER: K. Kudlik L.B.Terrado 01-9085-COV.DWG

September 30, 2005 | September 29, 2005