TECHNOLOGY SYSTEMS LEGEND

	TELECOMMUNICATIONS		RACEWAYS		ABBREVIATIONS/ACRONYMS CON'T
•	TELEPHONE OUTLET WITH 3/4" C. AND PULLSTRING TO		CONDUIT AND CONDUCTORS ABOVE GRADE	FF FG	FINISH FLOOR FINISH GRADE
∇	ACCESSIBLE CEILING SPACE. INSTALL (1) CAT6 CABLE.	-	CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB	FLR FMS	FLOOR FACILITY MANAGEMENT SYSTEMS
V .	1-1/4"C. FOR A/V CABLING. PROVIDE ONE (1) HDMI, AND ONE (1) CAT 6 CONNECTION BETWEEN OVERHEAD PROJECTOR AND		CONDUIT DOWN	FO FT	FIBER OPTIC FOOT/FEET
	TEACHERS PODIUM. STANDARD COMMUNICATIONS OUTLET.		CONDUIT UP	G	GROUND
V (x)	INSTALL (X) CAT6 CABLES WITH 1"C. TO ACCESSIBLE CEILING		CONDUIT, STUBBED AND CAPPED	Н	HORN
	SPACE. (X) DENOTES QUANTITY OF CABLES.			HB HH	HORIZONTAL BEND HANDHOLE
√ x	ALTERNATE COMMUNICATIONS OUTLET: A= ABOVE COUNTER WITH 1"C., (2) CAT6 CABLES TO	PB	PULL BOX	HT	HEIGHT
	ACCESSIBLE CEILING SPACE. C= FLUSH IN CEILING TILE WITH (2) CAT6 CABLES IN SINGLE	В	TELEPHONE POWER POLE	I/O IAW	INPUT/OUTPUT IN ACCORDANCE WITH
	GANG BOX. MOUNT BOX TO TILÉ BRIDGE FLUSH OUTLET BOX MOUNTING BRACKET.	1	TELEPHONE BACKBOARD	IDF IEEE	INTERMEDIATE DISTRIBUTION FRAME INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
	WIRELESS ACCESS POINT OUTLET WITH (2) CAT6 CABLES.		TELEPHONE BACKBOARD	IMC IN	INTERMEDIATE METALLIC CONDUIT INCHES
G T	FLUSH FLOOR COMBINATION POWER/DATA OUTLET WITH 1" C.	MITTER TO THE PARTY OF THE PART	CABLE RUNWAY, WIDTH AS INDICATED	ISDN ISO	INTEGRATED SERVICES DIGITAL NETWORK INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
	SEE FLOOR BOX SCHEDULE SHEET ?.	4	WRE BASKET TYPE CABLE TRAY, WIDTH AS INDICATED	İT	INFORMATION TECHNOLOGIES
	DACING INTERCOM		WINE BASKET THE GABLE HAT, WIDTH AS INDIGATED	LAN	LOCAL AREA NETWORK
	PAGING/INTERCOM_	TTC	TELEPHONE CABINET FOR TEMPORARY SERVICES	LC LED	FIBER OPTIC CONNECTOR LIGHT EMITTING DIODE
4	BUILDING COMMUNICATION SYSTEM CALL BUTTON WITH 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING SPACE. MOUNT 48" AFF.		TELECOMMUNICATIONS MAINTENANCE HOLE	LMC LNC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
Φ.	SURFACE MOUNTED SECONDARY CLOCK. COORDINATE MOUNTING			LV	LOW VOLTAGE
ዋ	HEIGHT WITH ARCHITECTUAL DRAWINGS.	0	TELEPHONE UTILITY POLE	MATL MAU	MATERIAL MULTIPLE ACCESS UNIT
Ф	FLUSH WALL MOUNTED SECONDARY CLOCK. COORDINATE MOUNTING HEIGHT WITH ARCHITECTUAL DRAWNGS.		TELEPHONE UTILITY POLE WITH GUY WIRE	MAX MEZZ	MAXIMUM MEZZANINE
₩	FLUSH MOUNTED CEILING EVENT ANNUNCIATION SYSTEM SPEAKER 1	[XX]	HANDHOLE	MH MHz	MANHOLE MEGAHERTZ
	FLUSH WALL MOUNTED SPEAKER WITH 1"C. TO ACCESSIBLE	XX	HANDHOLE WITH ID NUMBER	MIN MISC	MINIMUM MISCELLANEOUS
\$	CEILING SPACE. HEIGHT AS INDICATED.		TELECOMMUNICATIONS VAULT	MT,MTD MTRS	MOUNT, MOUNTED FIBER OPTIC CONNECTOR
Ø	SPEAKER VOLUME CONTROL WITH 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING SPACE. MOUNT 48" AFF.	VT	PELEONINIONION TONG TABLE	N	NEW
			EQUIPMENT	NA NEC	NOT APPLICABLE NATIONAL ELECTRIC CODE
•	AUDIO/VIDEO		MAJOR EQUIPMENT, CABINETS OR PANELS	NEMA NESC	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRIC SAFTEY CODE
•	TELEVISION OUTLET, INSTALL AT STANDARD OUTLET HEIGHT. U.N.O.		WATER TO THE TAXABLE OF TAXABLE	NEXT NFPA	NEAR END CROSS TALK NATIONAL FIRE PROTECTION ASSOCIATION
	CEILING MOUNTED PROJECTOR BRACKET FOR OFCI DATA PROJECTOR		EQUIPMENT RACK	NIC NIP	NOT IN CONTRACT NOT IN PROJECT
	FLUSH MOUNTED AUDIO REINFORCEMENT SPEAKER IN CEILING.			NP NTS	NAMEPLATE NOT TO SCALE
©	SURFACE MOUNTED AUDIO REINFORCEMENT SPEAKER ON WALL		VERTICAL WIRE MANAGEMENT, WIDTH AND DEPTH AS INDICATED	N12	NOT TO SCALE
A .				OC OFCI	ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED
7	SATELLITE DISH		REFERENCE SYMBOLS	OFOI OFNR	OWNER FURNISHED, OWNER INSTALLED OPTIC FIBER NONCUNDUCTIVE RISER
4	ANTENNA	1	KEYED NOTES	OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
₹	8-PORT CATV TAP	$\overline{1}$	DETAIL NUMBER AND CHEET LOCATION	PB PBX	PULL BOX PRIVATE BRANCH EXCHANGE
(4)	4-PORT CATV TAP	XXX	DETAIL NUMBER AND SHEET LOCATION	PNL PR	PANEL PAIR
				PVC	POLYVINAL CHLORIDE
─	SECURITY	XXX	SECTION LETTER AND SHEET LOCATION	QTY	QUANTITY
c	WALL MOUNTED ACCESS CONTROL CARD READER	×××	SHOWN AS XXT-7600 READ AS D-T-7600	R	RISER
KP	WALL MOUNTED KEYPAD/CARD READER		4 DDDE\	RD REF	REDUNDANT REFERENCE
MD	WALL MOUNTED MOTION DETECTION SENSOR		ABBREVIATIONS/ACRONYMS	RF RGS	RADIO FREQUENCY RIGID GALVINIZED STEEL CONDUIT
GB	WALL MOUNTED GLASS BREAK SENSOR	ACI AFC	AMERICAN CONCRETE INSTITUTE ABOVE FINISHED CEILING ABOVE FINISHED FLOOR	RM RO	ROOM ROUGH OPENING
(D)	DOOR POSITION SWITCH/CONTACT	AFF AIA ANMW	ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF ARCHITECTS GEL-FILLED UNDERGROUND CABLE	REQD	REQUIRED
	ELECTRIFIED DOOR LOCKS	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	SC SCH	FIBER OPTIC CONNECTOR SCHEDULE
		ARF ARMM	ABOVE RAISED FLOOR AIR—FILLED UTP RISER CABLE	SCP SCR	SECURITY CONTROL PANEL SATELLITE COMMUNICATIONS ROOM
PS	J-BOX CONTAINING POWER SUPPLY FOR DOOR HARDWARE.	ASTM AWG	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WIRE GAUGE	SE SECT	STATION EQUIPMENT SECTION
ADA	ADA DOOR OPERATION BUTTON	ВС	BARE COPPER	SHT SIM	SHEET SIMILAR
KW	KEYWAY SWITCH TO DISENGAGE ALARM	BLDG BOC	BUILDING BOTTOM OF CONDUIT	SPKR ST	SPEAKER FIBER OPTIC CONNECTOR
REX	REQUEST TO EXIT DEVICE	BOD BOM	BOTTOM OF DUCT BILL OF MATERIAL	STD STP	STANDARD SHIELDED TWISTED PAIR
SCP	SECURITY CONTROL PANEL	вот	BOTTOM OF TRAY	SUR SW	SURFACE SWITCH
DVR	DIGITAL VIDEO RECORDER	BOV BOTT	BOTTOM OF VAULT BOTTOM		
(10)	CEILING MOUNTED MOTION DETECTION SENSOR	C. CC	CONDUIT CONTROL CABLE	TBB TBB	TERMINAL BLOCK TELECOMMUNICATIONS BONDING BACKBONE
@	CEILING MOUNTED GLASS BREAK SENSOR	CC CCTV CFCI	CONTROL CABLE CLOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED CONTRACTOR INSTALLED	TBD TGB	TO BE DETERMINED TELECOMMUNICATIONS GROUNDING BUS BAR
	CCTV CAMERA	CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	TIA TMGB	TELECOMMUNICATIONS INDUSTRY ASSOCIATION TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
	Z = ZOOM LENS P = PAN / TILT	CLG COL	CEILING COLUMN	TO TOP	TELECOMMUNICATIONS OUTLET TOP OF PARAPET
	W = WEATHERPROOF ENCLOSURE H = HOUSING AND LENS HEATER REQUIRED	CONT	CONTINUOUS COORDINATE	TYP	TYPICAL
	A = WIDE ANGLE LENS F = FIXED FOCUS LENS	CMU CR	CONCRETE MASONRY UNIT COMPUTER ROOM	UL	UNDERWRITERS LABORATORIES, INC.
		CRS	COATED RIGID STEEL CONDUIT	UNO UPS	UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY
		DDC DIA	DIRECT DIGITAL CONTROL DIAMETER	UTP	UNSHEILDED TWISTED PAIR
		DIM DIV	DIMENSION DIVISION	VIB	VERTICAL INSIDE BEND
		DN DTE	DOWN DATA TERMINAL EQUIPMENT	VOB	VERTICAL OUTSIDE BEND
		DTL D W G	DETAIL DRAWING	VRFY	VERIFY
		E.	EXISTING	W/ W/O	WITH WITHOUT
		EA EF	EACH ENTRANCE FACILITY ELECTRONIC INDUSTRIES ASSOCIATION	WÁN WP	WIDE AREA NETWORK WEATHERPROOF
		EIA ELEV, EL	ELECTRONIC INDUSTRIES ASSOCIATION ELEVATION		
		EMC EMI	ELECTROMAGNETIC COMPATIBILITY ELECTROMAGNETIC INTERFERENCE	50/250	LOOSE TUBE GEL FILLED UNDERGROUND FIBER OPTIC CABLE
		EMT ENET	ELEC. METALLIC TUBING ETHERNET NETWORK	50/900	TIGHT BUFFERED RISER FIBER OPTIC CABLE
		ENT	ELEC. NON-METALLIC TUBING	50/900P	TIGHT BUFFERED PLENUM FIBER OPTIC CABLE
		F FBO	FUTURE FURNISHED BY OTHERS	8.3/900	TIGHT BUFFERED RISER FIBER OPTIC CABLE
		FCTY FDDI	FACTORY FIBER DISTRIBUTED DATA INTERFACE		HYBRID CABLE COMBINED MULTIMODE AND SINGLE MODE
		FDR FDU	FEEDER FIBER OPTIC DISTRIBUTION UNIT	55/ 5.5/ 500	TIGHT BUFFERED FIBER OPTIC CABLE
		1 50	, JEN OF HO DIGINIDO HON ONL	50/8.3/250	HYBRID CABLE COMBINED MULTIMODE AND SINGLE MODE LOOSE TUBE GEL FILLED UNDERGROUND FIBER OPTIC
					CABLE

GENERAL TECHNOLOGY NOTES

- A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS.
- B. COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. THE SUBCONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING ALL WORK WITH ARCHITECTURAL, POWER/LIGHTING, MECHANICAL, FURNITURE SUBCONTRACTOR, AND OTHERS.
- C. CONSTRUCTION DETAILS SHOWN ON DRAWINGS SHOW TYPICAL INSTALLATION UNLESS NOTED OTHERWISE, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.
- D. THE CONTRACTOR SHALL INSTALL PULLSTRINGS IN ALL CONDUITS AT THE TIME OF CONDUIT INSTALLATION.

architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539

PROJECT 2007-0731

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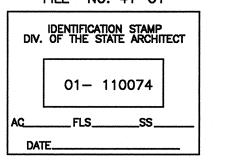
CONTACT Valeria Torres	5
	INTERFACE ENGINEERING
717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289 www.interfaceengineering.com	m
ARCHITECT	ENGINEER
* Ne. C018659 Ren.: 09/30/11 ** ** ** ** ** ** ** ** **	No. E16806 No. E16806 PROFESS/ONAL NO. E1

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DRAWING	BIDDING (BID #86593)	09/18/09
PRA	CONSTRUCTION	

FILE NO. 41-C1



BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE

4200 Farm Hill Boulevard Redwood City, CA 94061

TECHNOLOGY SYMBOL LIST

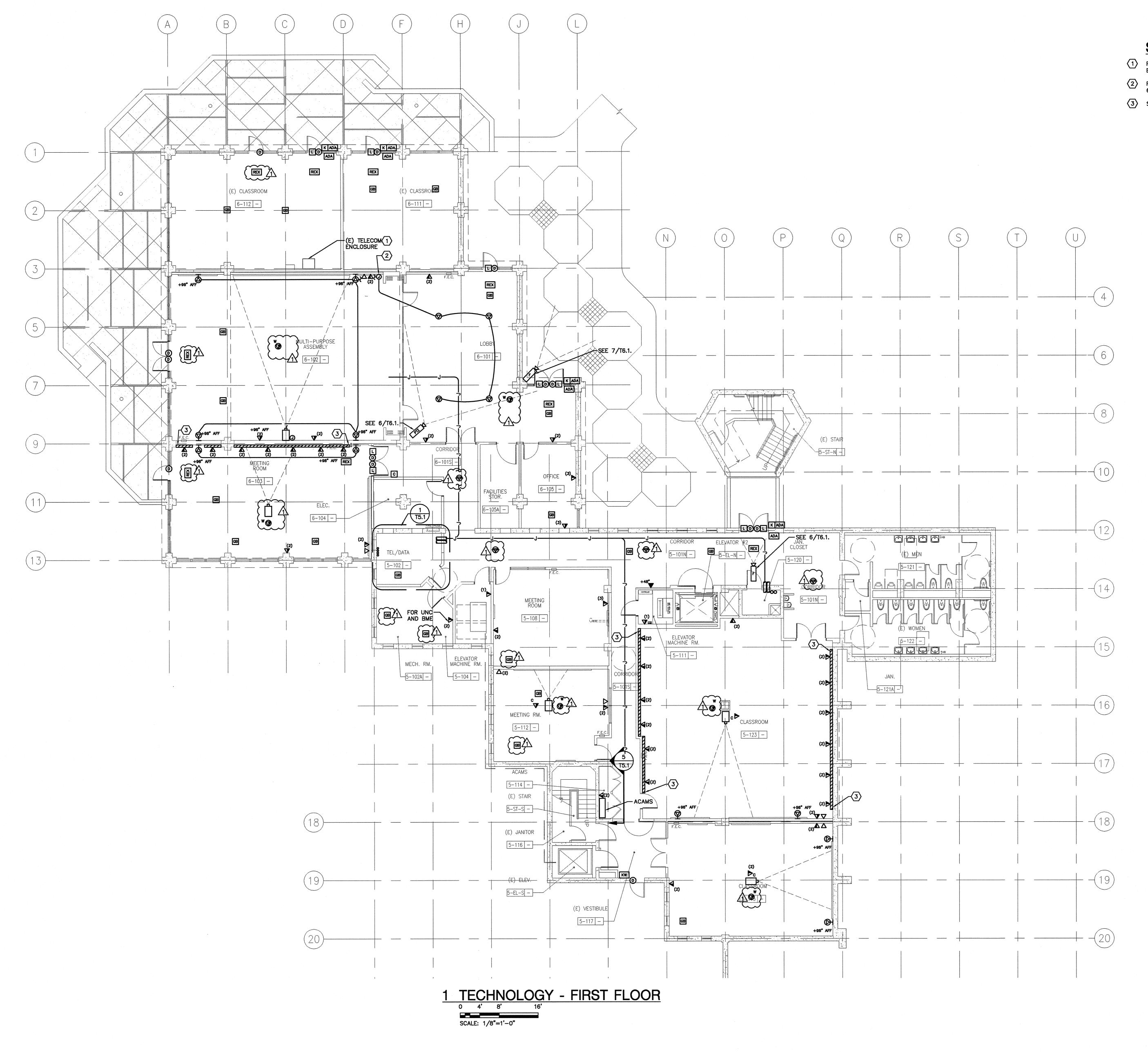
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07013	

TO.1 TECHNOLOGY SYMBOL LIST

T4.1 TECHNOLOGY — FIRST FLOOR
T4.2 TECHNOLOGY — SECOND FLOOR
T4.3 TECHNOLOGY — THIRD FLOOR

T5.1 ENLARGED FLOOR PLANS AND ELEVATIONS

TECHNOLOGY DETAIL SHEET



FILE: 0731T41.DWG - T4.1 | EDIT: 9/16/2009 4:01 PM BY GEORGES | PLOT: 9/17/2009 7:18 PM BY TINA LEONG

SHEET KEYNOTES

- PULL BACK (E) BACKBONE CABLES GOING TO THIS TELECOM ENCLOSURE AND REDIRECT THEM TO THE (N) TR5.1 (ROOM 5-102).
- PROVIDE SPEAKER SELECTION SWITCH ALLOWING ROOMS 6-101 AND 6-102 TO BE CONTROLLED SEPARATELY OR ALL TOGETHER.
- SEE DETAIL 6/T5.1.



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Suite 500	l Street		
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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE

4200 Farm Hill Boulevard Redwood City, CA 94061

TECHNOLOGY - FIRST FLOOR

Date
08/29/08
Scale

Project Number

T4.1

(E) STAIR 5-ST-N -BREAK ROOM 5-227B -5-207 -CLASSROOM (2) (E) STAIR 5-ST-S -5-EL-S -(E) FOOD STORAGE 5-216 -1 TECHNOLOGY - SECOND FLOOR O 4' 8' 16' SCALE: 1/8"=1'-0"

SHEET KEYNOTES

- (2) 4" CONDUIT SLEEVES IN CEILING FROM ROOM 302 AND IN FLOOR TO ROOM 120.
- 2 SEE DETAIL 6/T5.1.



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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

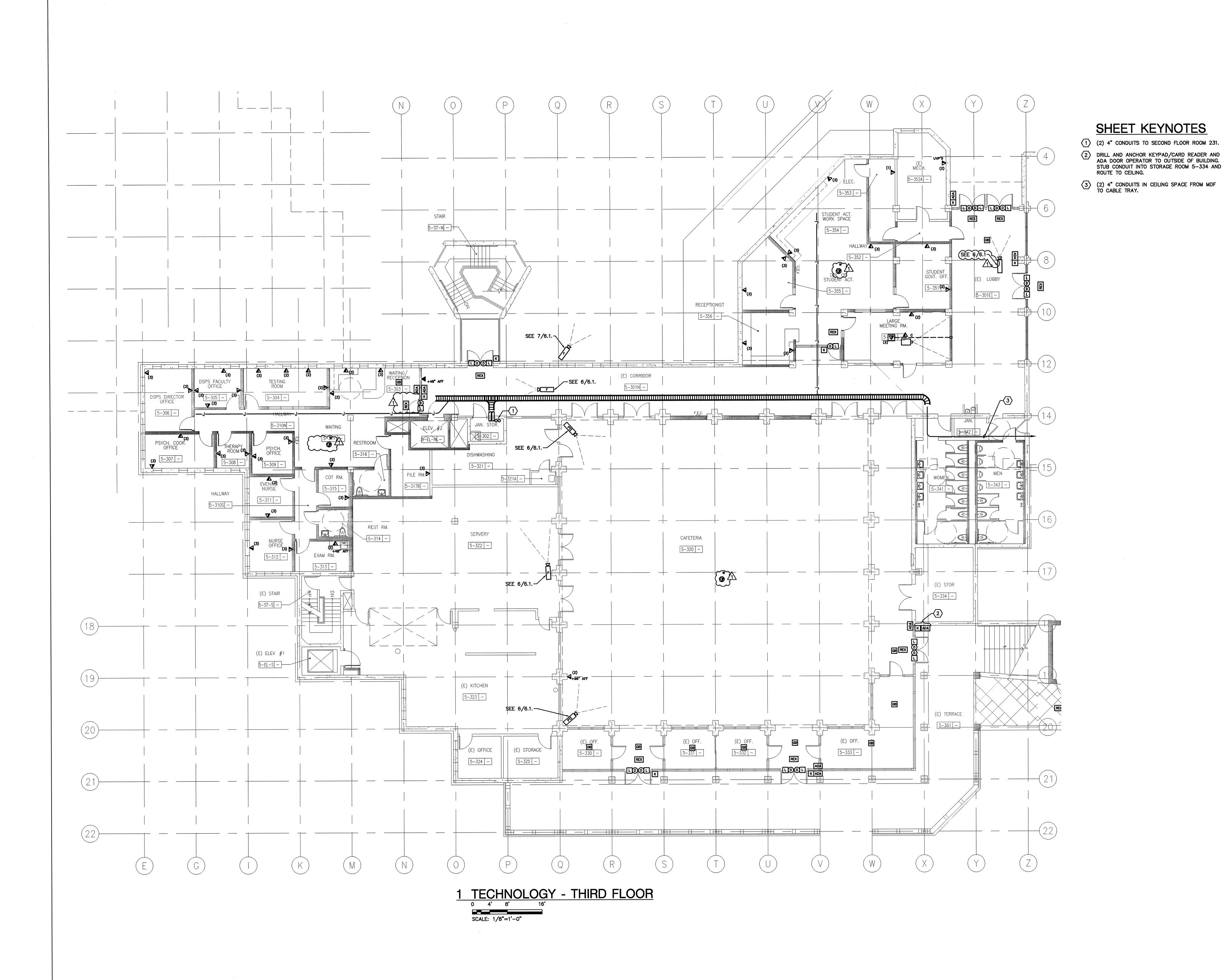
TECHNOLOGY - SECOND FLOOR

Date
08/29/08

Scale
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Drawing Number

T4.2





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PROJECT	2007-0731 Valeria Torre	26			
CONTACT			NTER NGINE	FA (C E
TEL 415. FAX 415.	sco, CA 94103 .489.7240	om			
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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

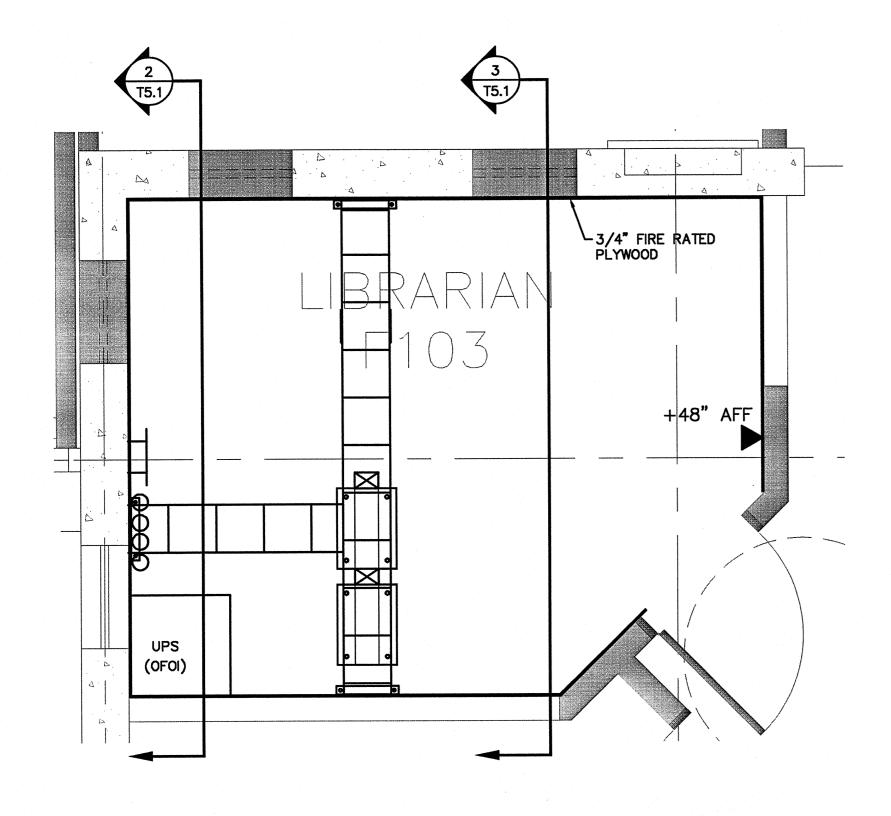
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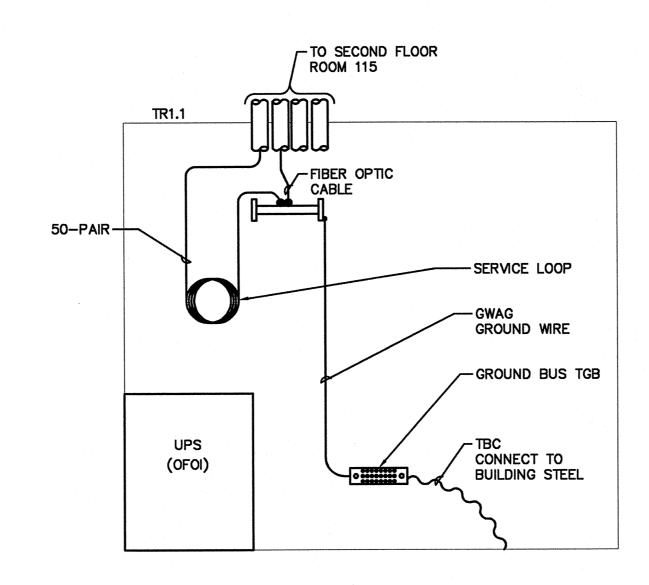
4200 Farm Hill Boulevard Redwood City, CA 94061

TECHNOLOGY - THIRD FLOOR

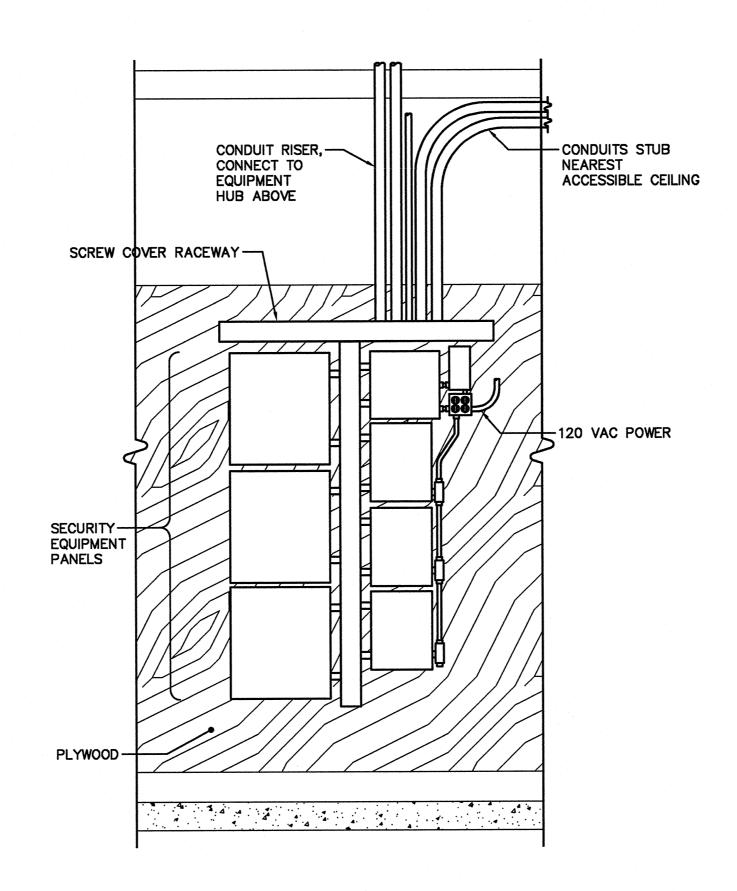
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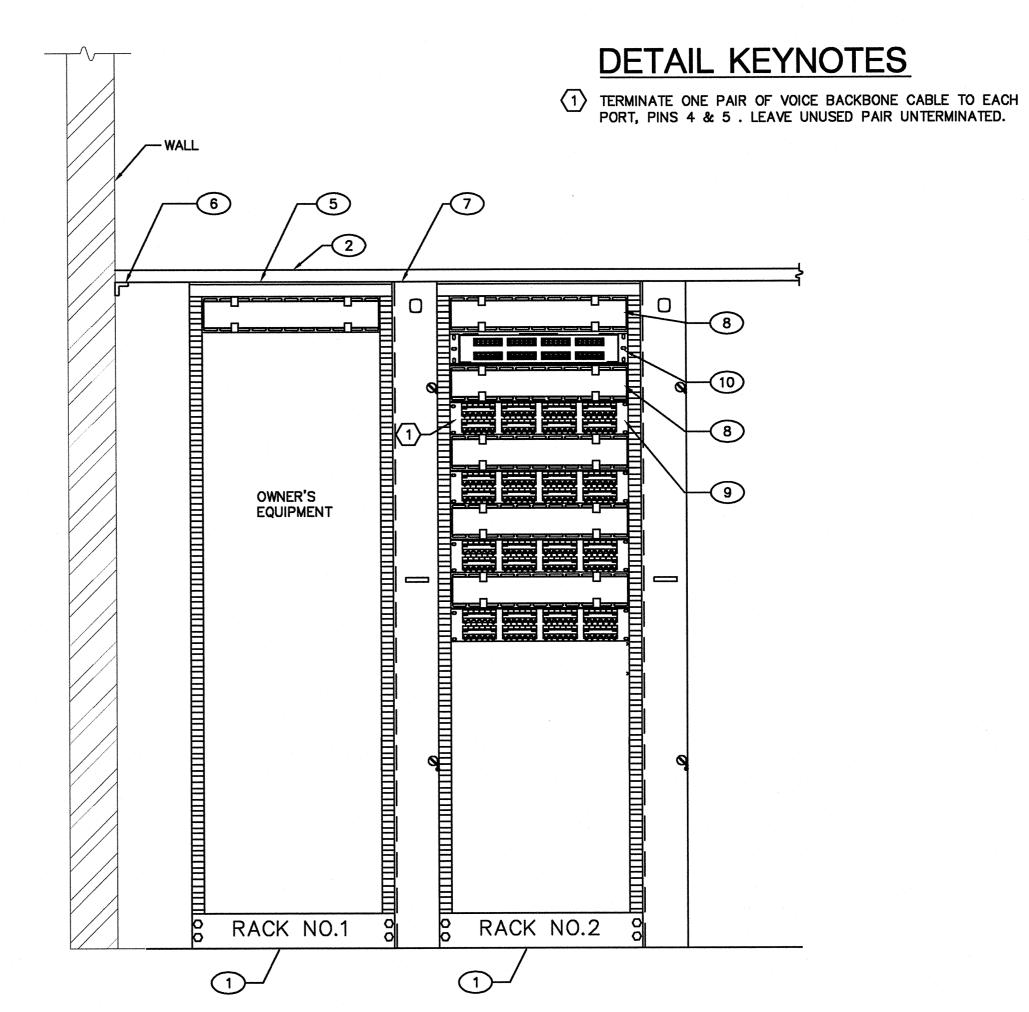




2 SIGNAL - WALL ELEVATION RM. F103

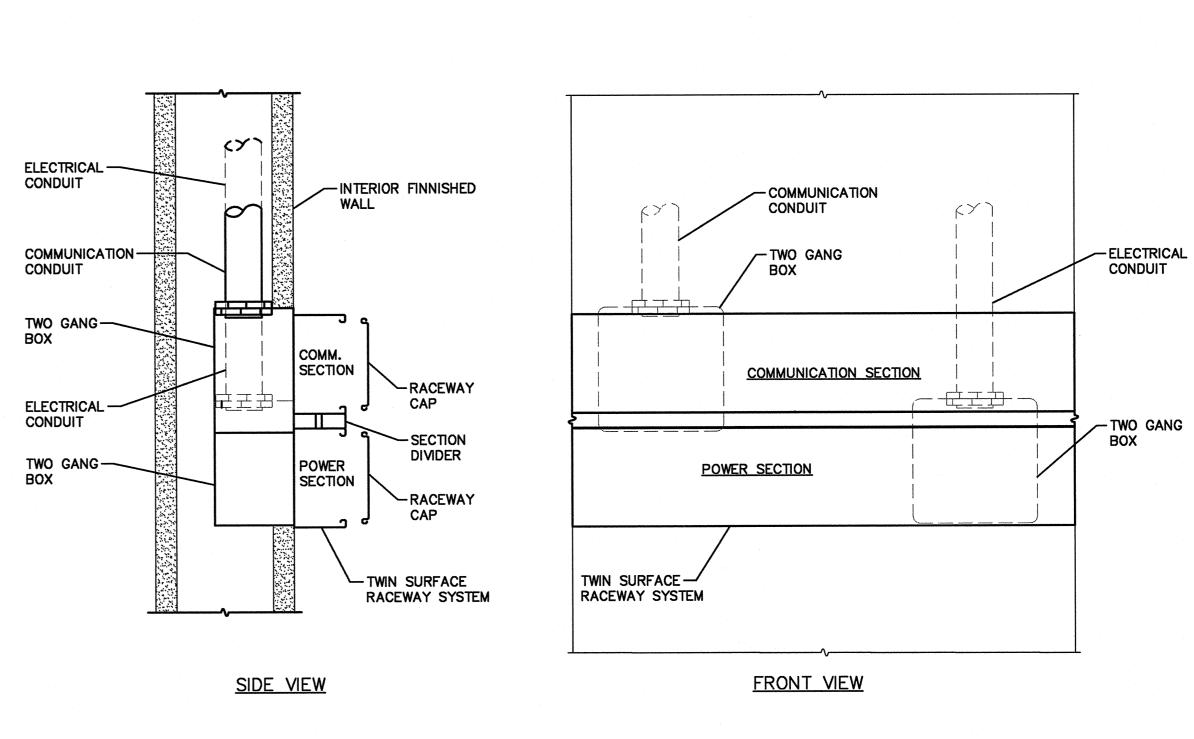


5 SECURITY PANEL WALL ELEVATION



3 SIGNAL - RACK ELEVATION RM. F103

Equipment ID	Quantity	Manufacturer	Part Number	Description
1	As Required		55053-703	19" x 84" Free standing Relay Rack, UL Listed, Black
2	As Required		11275-712	12" cable Tray, UL Listed, Black
3	As Required		16301-701	Butt-Splice Kit, UL Listed, Black
4	As Required		16302-701	Juction—Splice Kit, UL Listed, Black
5	As Required		10595-712	3" Channel Rack to Runway Mounting Plate, Black
6	As Required		11421-712	Wall Angle Support Kit, Cable Runway, Black
7	As Required		30162-715	Vertical Cable Management, Double Sided, Black
8	As Required	Chatsworth	30529-719	Horizontal Cable Management, Double Sided, Black
9	As Required	Panduit	24M6BL	48-Port Modular Faceplate Patch Panels, 2 Rack Spaces
10	As Required		RFE-FX6-EMT/14	Fiber Termination Unit, Rack Mount, Holds 12 Adapter Panels



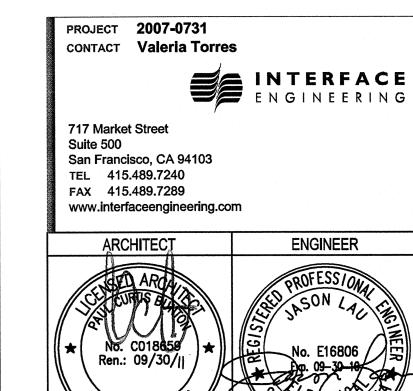
6 TWIN SURFACE RACEWAY DETAIL
NO SCALE

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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

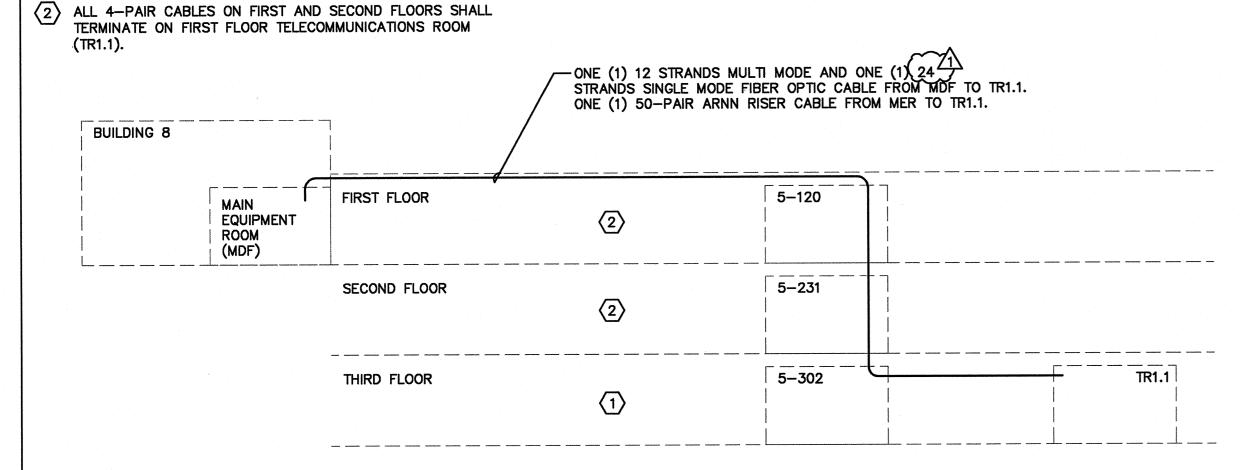
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ENLARGED FLOOR PLANS
AND ELEVATIONS

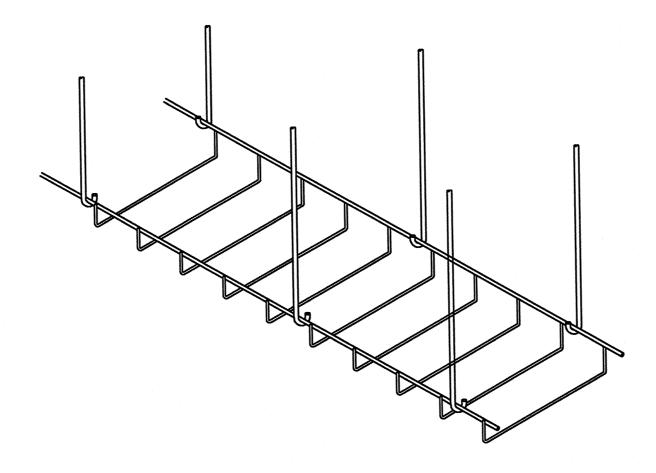
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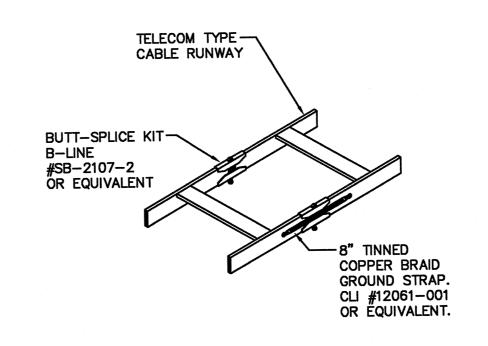
DETAIL KEYNOTES

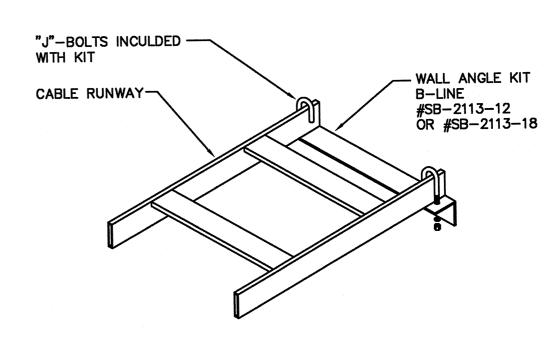
ALL 4-PAIR CABLES ON THIRD FLOOR SHALL TERMINATE IN BUILDING 8 MAIN EQUIPMENT ROOM (MER).



4 SIGNAL BACKBONE CABLE SINGLE-LINE DIAGRAM





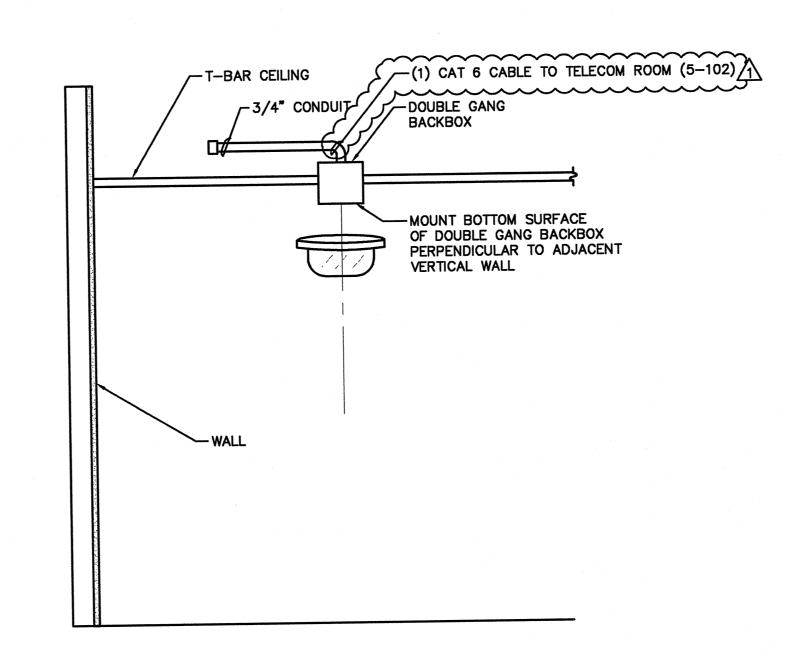


CABLE RUNWAY "T" DETAIL

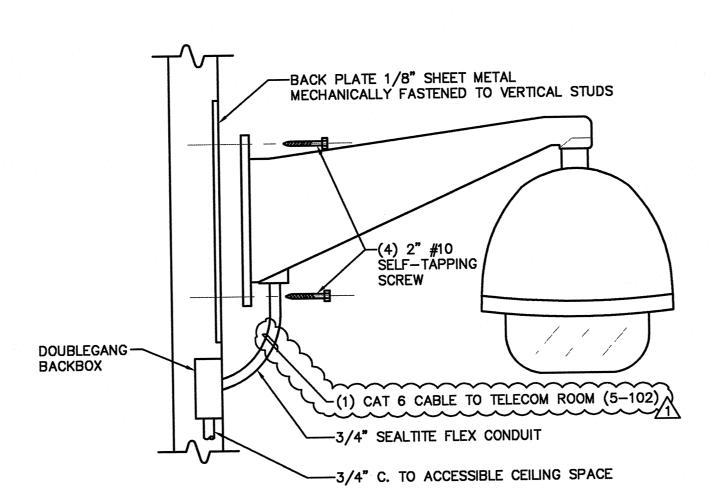
CABLE RUNWAY END-TO-WALL BRACKET DETAIL

5 CABLE RUNWAY SUPPORT DETAIL

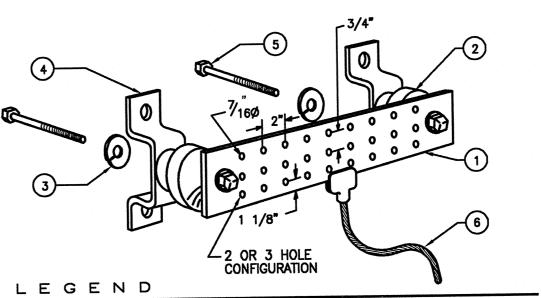




6 CEILING MOUNTED CAMERA DETAIL NO SCALE



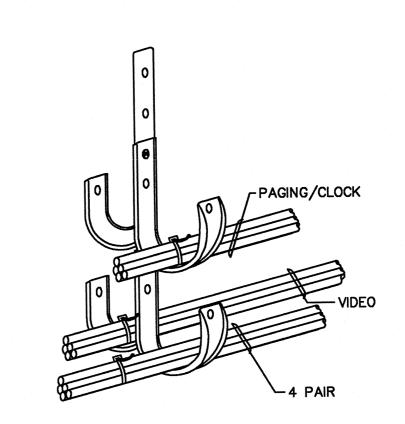
7 WALL CAMERA MOUNTING DETAIL



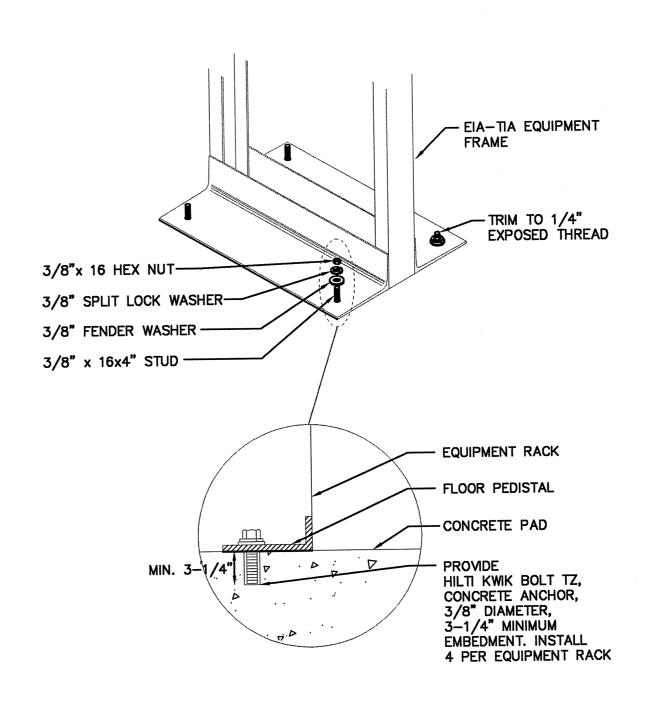
- 1- COPPER GROUND BAR, 1/4" X 4" X 10", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
 2- INSULATORS
 3- 5/8" LOCKWASHERS
 4- WALL MOUNTING BRACKET
- 4- WALL MOUNTING BRACKET
 5- 5/8-11 X 1" H.H.C.S.BOLTS
 6- 3/0 BARE COPPER GROUND CONDUCTOR TO MAIN SERVICE EQUIPMENT GROUND.

CPI, ERICO/CADWELD, SQUARE D OR APPROVED SUBSTITUTE

2 GROUND BUS BAR DETAIL NO SCALE



3 J-HOOK DETAIL
NO SCALE

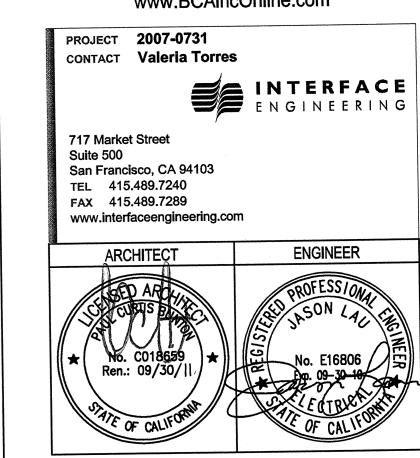


4 RACK MOUNTING DETAIL
NO SCALE



architecture planning interiors

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DRAWING STATUS		9/18/09
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	FILE NO. 41-C1	
	DIV. OF THE STATE ARCHITECT	
	01 110074	

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

TECHNOLOGY DETAIL SHEET

Date
08/29/08
Scale
TA

Project Number

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	CSFM
FARP	FIRE ALARM REMOTE PANEL SIEMENS MXL PSR-1 (EXISTING)	7300-0067:152
NAC	NAC POWER EXTENDER WHEELOCK PS-12/24-8MP (EXISTING)	7315-0785:162
CM	CONTROL MODULE SIEMENS TRI-R	7300-0067:146
DM	DUAL MONITOR MODULE SIEMENS TRI-D	7300-0067:146
F	MANUAL FIRE ALARM PULL STATION SIEMENS MSI-10B	7150-0067: 036
S	SMOKE DETECTOR SIEMENS FP-11	7272-0067: 203
<u>s</u>	DUCT SMOKE DETECTOR SIEMENS AD2-XHR	3240-0067: 245
BT BR	PHOTOELECTRIC BEAM DETECTOR SIEMENS PBA-1191 WITH PBR-1193 REFLECTOR AND CZM-1B6 ZONE MODULE	7260-0067:204
F	FIRE ALARM HORN/STROBE — # DENOTES CANDELA WHEELOCK NS-24MCW	7125-0785:142
Ė	FIRE ALARM STROBE — # DENOTES CANDELA WHEELOCK RSS-24MCW	7125-0785:141
∇ ^{WP} F	FIRE ALARM HORN WHEELOCK NH-24	7125-0785:142
(39)	FIRE SMOKE DAMPER BY OTHERS	NA
М	MAGNETIC DOOR HOLDER 24 VDC BY OTHERS	NA
FS	WATER FLOW SWITCH BY OTHERS	NA
टा	VALVE TAMPER SWITCH BY OTHERS	NA

ABBREVIATIONS

(E) = EXISTING (WP) = WEATHERPROOF

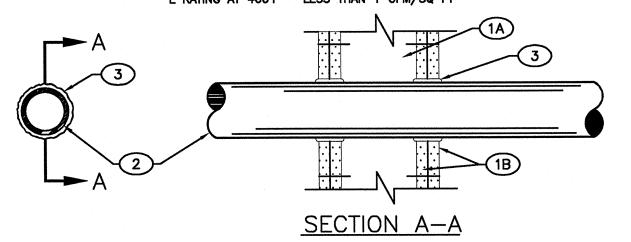
FIRE ALARM SYSTEM NOTES

- 1. THE FIRE ALARM SYSTEM IS AN AUTOMATIC ADDRESSABLE, POWER-LIMITED FIRE ALARM SYSTEM. MANUAL PULL STATIONS ARE PROVIDED AT ALL EXITS. SMOKE DETECTORS ARE PROVIDED FOR THE HVAC SYSTEM AND TO PROTECT THE FIRE ALARM CONTROL UNITS.
- 2. CLASS B, STYLE 4 SLC SYSTEM.
- 3. NOTIFICATION APPLIANCE CIRCUITS ARE CLASS B, STYLE Y.
- 4. MINIMUM CONDUIT SIZE TO BE 3/4" FOR FIRE ALARM
- 5. 10% MAXIMUM VOLTAGE DROP AND 80% MAXIMUM CURRENT ALLOWED FOR NOTIFICATION APPLIANCE
- 6. LISTING NUMBERS FOR EACH COMPONENT HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
- 7. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO ARCHITECT, DSA, PROJECT INSPECTOR, OWNER, AND TO THE LOCAL FIRE AUTHORITY.
- 8. THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.
- 9. PENETRATIONS OF ALL FIRE-RESISTIVE WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUIDING CODE.
- 10. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAT 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL THAT CAN BE NORMALLY EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2).
- 11. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING TO ALERT THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING 2 FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH PER SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5.2). STROBES SHALL BE SYNCHRONIZED.

FIRE ALARM SYSTEM OPERATIONAL MATRIX TROUBLESUPERVISORY SPOT TYPE SMOKE DETECTOR DESIGNATED LEVEL ELEV LOBBY SMOKE DETECTOR OTHER THAN DESIGNATED LEVEL ELEV LOBBY SMOKE DETECTOR ELEV MECH ROOM SMOKE DETECTOR | • | • | • | • | • | • | • DUCT SMOKE DETECTOR PHOTOELECTRIC BEAM DETECTOR MANUAL PULL STATION FIRE SPRINKLER WATER FLOW • • FIRE SPRINKLER VALVE TAMPER SYSTEM SILENCE SYSTEM RESET POWER FAILURE FIRE ALARM TROUBLE (OPEN, OR GROUNDS) ON INITIATION OR SIGNAL CIRCUITS

THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ)

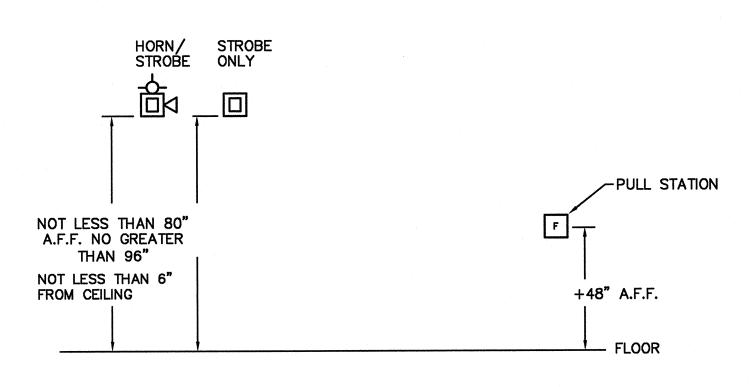
SYSTEMS NO. W-L-1001
F RATINGS - 1,2,3 AND 4 HR (SEE ITEMS 2 AND 7 RATINGS - 0,1,2,3 AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT L RATING AT 400°F — LESS THAN 1 CFM/SQ FT



- 1. WALL ASSEMBLY THE 1,2,3 OR 4 HR FIRE—RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. O.C.
- B. GYPSUM BOARD* NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 26 IN.
- 2. THROUGH PENETRANT ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
- A. STEEL PIPE NOM 24 IN. DIAM. (OR SMALLER), SCHEDULE 10 (OR HEAVIER)
- B. IRON PIPE NOM 24 IN. DIAM. (OR SMALLER), SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM. (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
- C. CONDUIT NOM 6 IN. DIAM. (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- D. COPPER TUBING NOM 6 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- E. COPPER PIPE NOM 6 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- 3. FILL, VOID OR CAVITY MATERIAL* CAULK OR SEALANT MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. DIAM. BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDANT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN.	ANNULAR SPACE, IN.	F RATING, HOUR	T RATING, HOUR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

- +WHEN COPPER PIPE IS USED, T RATING IS 0 HOUR. 3M COMPANY - CP 25WB+CAULK OR FB-3000 WT SEALANT.
- * BEARING THE UL CLASSIFICATION MARKING.



MOUNTING HEIGHT REQUIREMENTS

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

INSTALLATION NOTES:

- 1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE ADOPTED EDITIONS OF THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA CODE OF REGULATIONS TITLES 19 AND 24, AS APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 72.
- 2. INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
- 3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- 4. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSITUTION OF DEVICES, SHALL BE APPROVED BY DSA.
- 5. DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF
- 6. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE INSPECTOR UPON COMPLETION OF THE INSTALLATION.
- 7. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. WHEN SPLICING TSP, IT IS NECESSARY THAT ALL SUCH CONNECTIONS BE SOLDERED (RESIN-CORE SOLDER), CRIMPED IN METAL SLEEVES, ENCAPSULATED WITH AN EPOXY RESIN OR JOINED BY WIRE NUTS. WHEN SOLDER OR CRIMPED METAL SLEEVES ARE USED, THE JUNCTION MUST BE INSULATED WITH A HIGH GRADE ELECTRICAL TAPE AS SOUND AS THE ORIGINAL INSULATING JACKET. CONTINUITY OF THE SHIELD MUST BE MAINTAINED.
- 8. NUMBER ADJACENT TO ADDRESSABLE DEVICES INDICATES SLC# AND ADDRESS. NUMBER ADJACENT TO NOTIFICATION APPLIANCES INDICATES CIRCUIT NUMBER AND DEVICE SEQUENCE, E.G., NA1-7 IS THE 7TH DEVICE ON CIRCUIT A1.
- 9. THE FIRE ALARM SIGNALS SHALL BE DISTINCTIVE IN SOUND FROM ANY OTHER SIGNALS AND THAT THIS SOUND NOT BE USED FOR ANY OTHER PURPOSE. TO MEET THIS REQUIREMENT, THE FIRE ALARM SIGNAL USED TO NOTIFY BUILDING OCCUPANTS OF THE NEED TO EVACUATE (LEAVE THE BUILDING) SHALL MATCH EXISTING SOUND & PATTERN.
- 10. AREA SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM: (g.) THE DOOR TO A KITCHEN OR A BATHROOM CONTAINING A TUB OR SHOWER.
- (b.) SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM.
- 11. ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE WATERTIGHT.
- 12. ALL WIRING SHALL BE IN CONDUIT.

SCOPE OF WORK

PROVIDE EXPANSION OF AN EXISTING ADDRESSABLE FIRE ALARM SYSTEM.

WALL TYPE

FIRE RATED WALL.

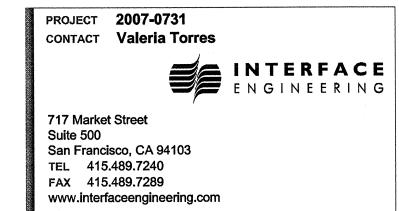
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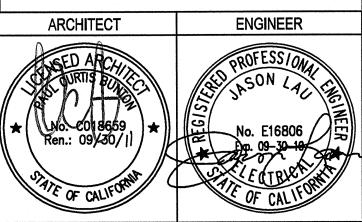
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BIDDING (BID #86593) CONSTRUCTION	09/10/09

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BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard

Redwood City, CA 94061

FIRE ALARM SYMBOL LIST, NOTES, MATRIX & DRAWING INDEX

Drawing Number

08/29/08 AS NOTED **Project Number**

07013

FIRE ALARM ADDRESS LEGEND

X-##,
DEVICE ADDRESS

WIRE SCHEDULE

1 PAIR #16 TWISTED AND SHIELDED

B | 1 PAIR #12

INDICATES TWO, #18 TSP CABLES.

X = LOOP NUMBER

= DEVICE ADDRESS

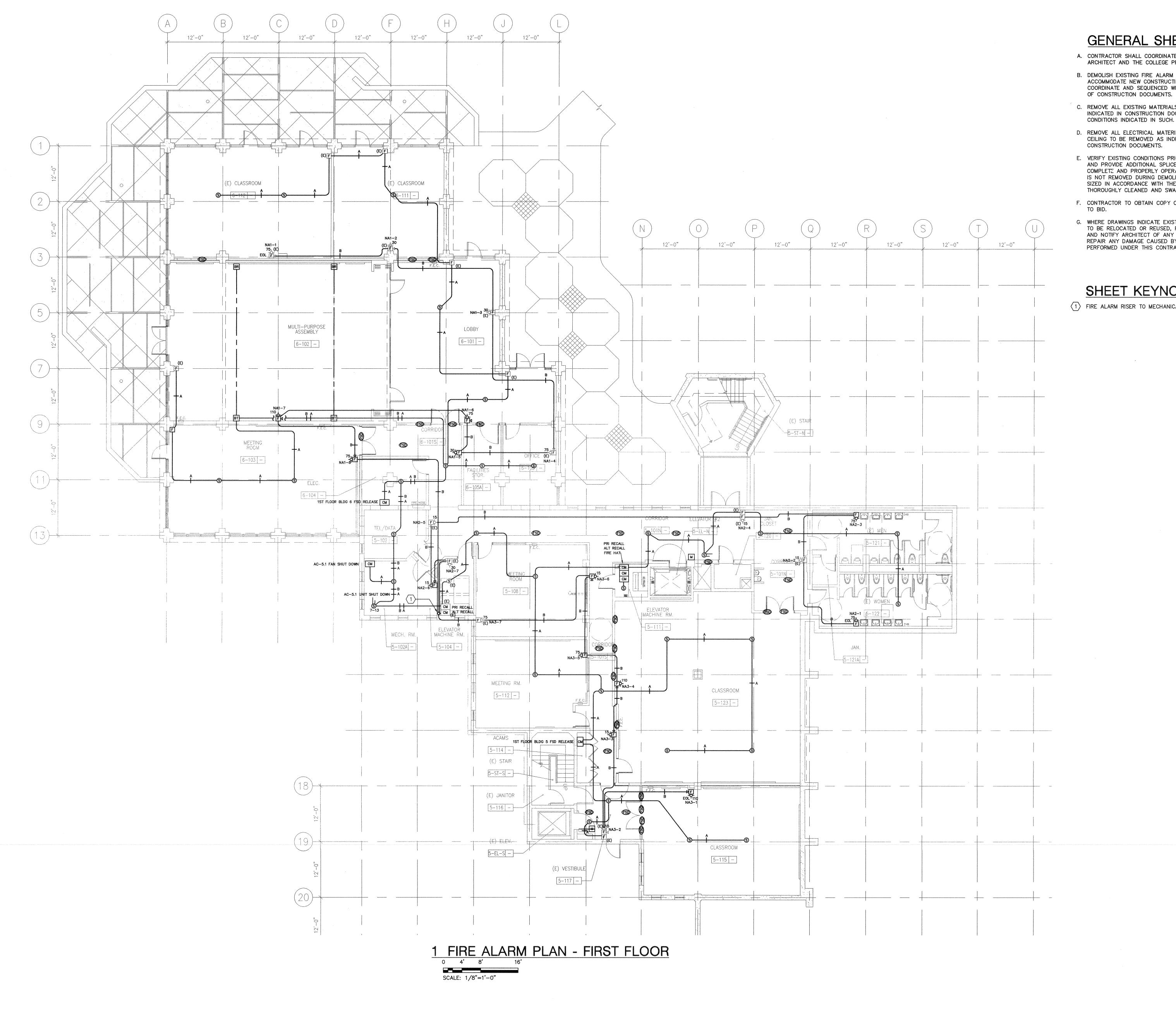
DRAWING INDEX

FAO.1 FIRE ALARM SYMBOL LIST, NOTES, MATRIX & DRAWING INDEX

FA3.1 FIRE ALARM PLAN - FIRST FLOOR

FA3.2 FIRE ALARM PLAN - SECOND FLOOR

FA3.3 FIRE ALARM PLAN - THIRD FLOOR FA4.1 FIRE ALARM RISER DIAGRAM AND CALCULATIONS



GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND THE COLLEGE PRIOR TO COMMENCEMENT OF WORK.
- B. DEMOLISH EXISTING FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. DEMOLITION WORK SHALL BE COORDINATE AND SEQUENCED WITH THE PROVISIONS OF ALL DIVISIONS OF CONSTRUCTION DOCUMENTS.
- C. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE
- D. REMOVE ALL ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE REMOVED AS INDICATED IN THE ARCHITECTURAL
- E. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK, AND PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM. EXISTING CONDUIT THAT IS NOT REMOVED DURING DEMOLITION MAY BE REUSED IN PLACE IF IT IS SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C. AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- F. CONTRACTOR TO OBTAIN COPY OF EXISTING AS-BUILT DRAWINGS PRIOR
- G. WHERE DRAWINGS INDICATE EXISTING FIRE ALARM EQUIPMENT OR DEVICES TO BE RELOCATED OR REUSED, REFURBISH THEM. CLEAN SUCH ITEMS AND NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

SHEET KEYNOTES

1 FIRE ALARM RISER TO MECHANICAL ROOM 5-204A



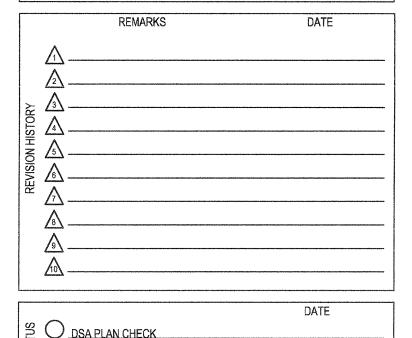
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PROJECT 2007-0731 CONTACT Valeria Torres INTERFACE ENGINEERING 717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289 www.interfaceengineering.com ARCHITECT ENGINEER

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BIDDING (BID #86593)

CONSTRUCTION FILE NO. 41-C1 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE 4200 Farm Hill Boulevard

Redwood City, CA 94061

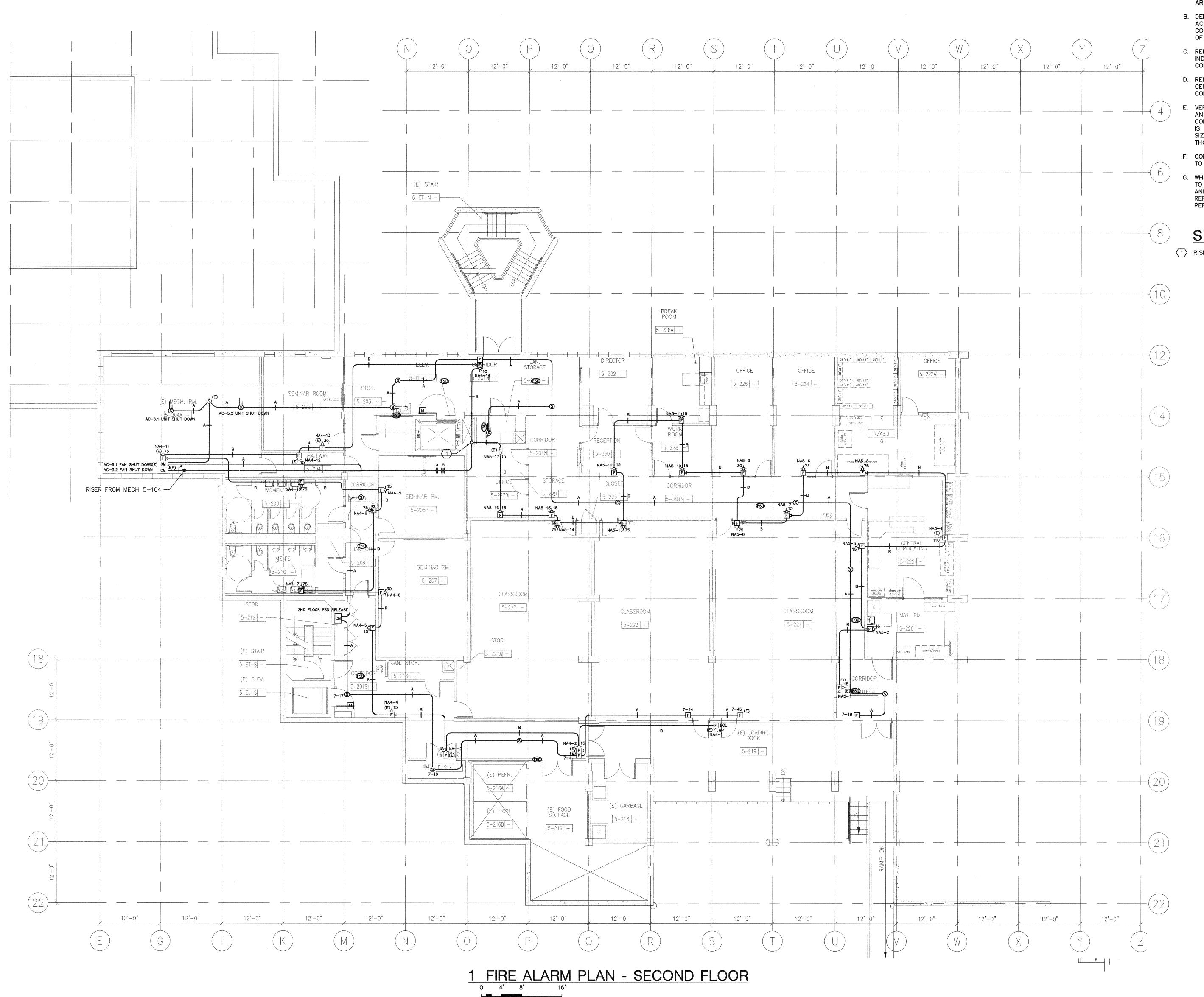
FIRE ALARM PLAN FIRST FLOOR

AS NOTED

Project Number

Drawing Number

FA3.1



SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

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- B. DEMOLISH EXISTING FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. DEMOLITION WORK SHALL BE COORDINATE AND SEQUENCED WITH THE PROVISIONS OF ALL DIVISIONS OF CONSTRUCTION DOCUMENTS.
- C. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE CONDITIONS INDICATED IN SUCH.
- D. REMOVE ALL ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE REMOVED AS INDICATED IN THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK, AND PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM. EXISTING CONDUIT THAT IS NOT REMOVED DURING DEMOLITION MAY BE REUSED IN PLACE IF IT IS SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C. AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- F. CONTRACTOR TO OBTAIN COPY OF EXISTING AS-BUILT DRAWINGS PRIOR TO BID.
- G. WHERE DRAWINGS INDICATE EXISTING FIRE ALARM EQUIPMENT OR DEVICES TO BE RELOCATED OR REUSED, REFURBISH THEM. CLEAN SUCH ITEMS AND NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

SHEET KEYNOTES

1 RISER TO 3RD FLOOR.



architecture planning interiors

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		INTERFACE ENGINEERING
L 415 X 415	t Street isco, CA 94103 .489.7240 .489.7289 aceengineering.com	
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	DATE
O DSA PLAN CHECK	***************************************
O DSA BACK CHECK	
BIDDING (BID #86593)	
Oconstruction	
FILE NO. 41-C1	
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
01- 110074	
AC (W) FLS SS SS	
DATE MAR 1 9 2009	

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

FIRE ALARM PLAN
SECOND FLOOR

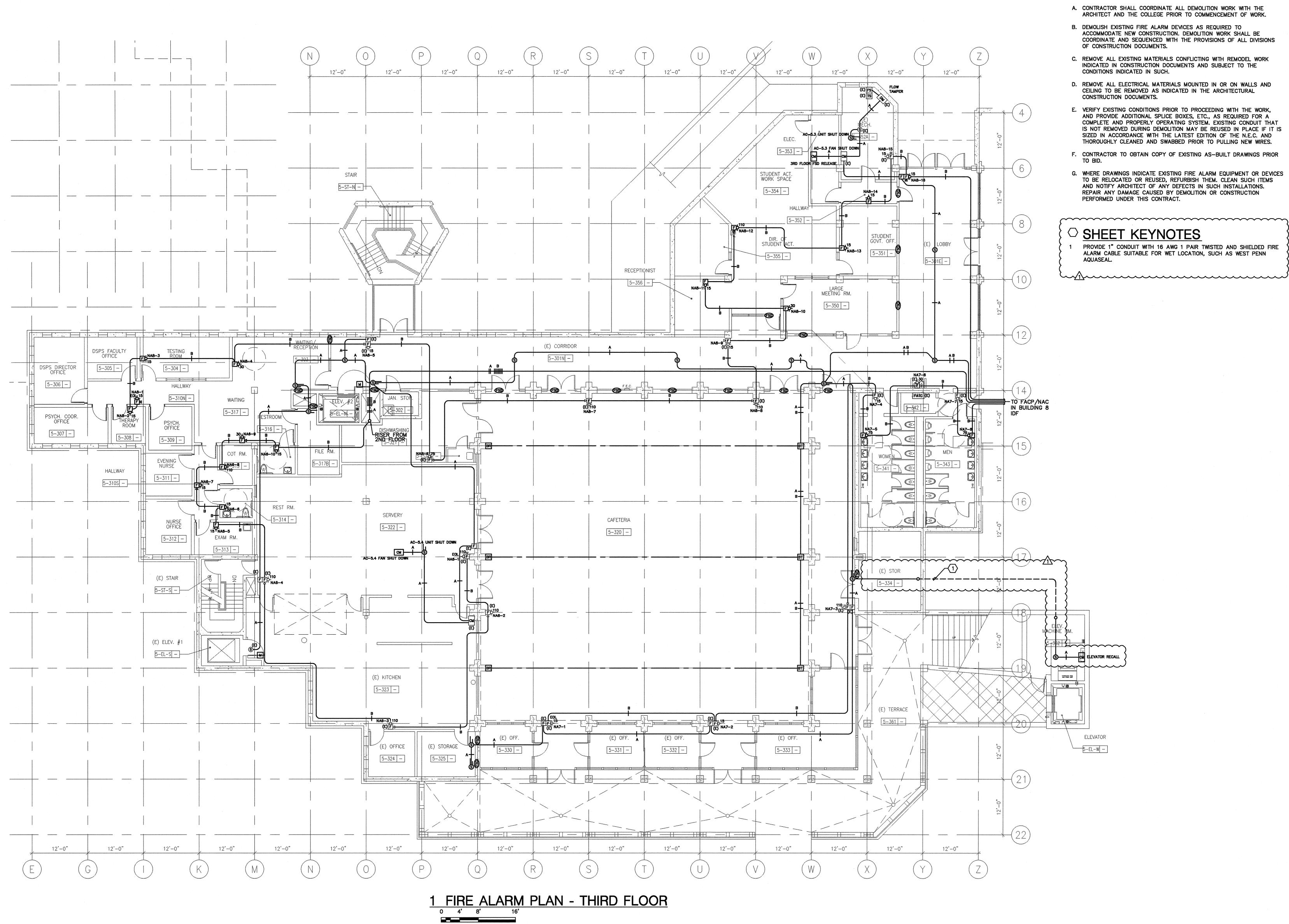
Date 01/22/09

Project Number

07013

FA3.2

Drawing Number



SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND THE COLLEGE PRIOR TO COMMENCEMENT OF WORK.
- B. DEMOLISH EXISTING FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. DEMOLITION WORK SHALL BE COORDINATE AND SEQUENCED WITH THE PROVISIONS OF ALL DIVISIONS
- C. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE
- D. REMOVE ALL ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE REMOVED AS INDICATED IN THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- E. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK, AND PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM. EXISTING CONDUIT THAT IS NOT REMOVED DURING DEMOLITION MAY BE REUSED IN PLACE IF IT IS SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C. AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- F. CONTRACTOR TO OBTAIN COPY OF EXISTING AS-BUILT DRAWINGS PRIOR
- G. WHERE DRAWINGS INDICATE EXISTING FIRE ALARM EQUIPMENT OR DEVICES TO BE RELOCATED OR REUSED, REFURBISH THEM. CLEAN SUCH ITEMS AND NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION

PROVIDE 1" CONDUIT WITH 16 AWG 1 PAIR TWISTED AND SHIELDED FIRE ALARM CABLE SUITABLE FOR WET LOCATION, SUCH AS WEST PENN



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005

www.BCAincOnline.com PROJECT 2007-0731 CONTACT Valeria Torres INTERFACE ENGINEERING

717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289 www.interfaceengineering.com

> ARCHITECT **ENGINEER**

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	_	DATE
5	DSA PLAN CHECK	08/29/08
STA	DSA BACK CHECK	01/22/09
DRAWING STATUS	BIDDING (BID #86593)	09/18/09
DRA	OCONSTRUCTION	

FILE NO. 41-C1

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

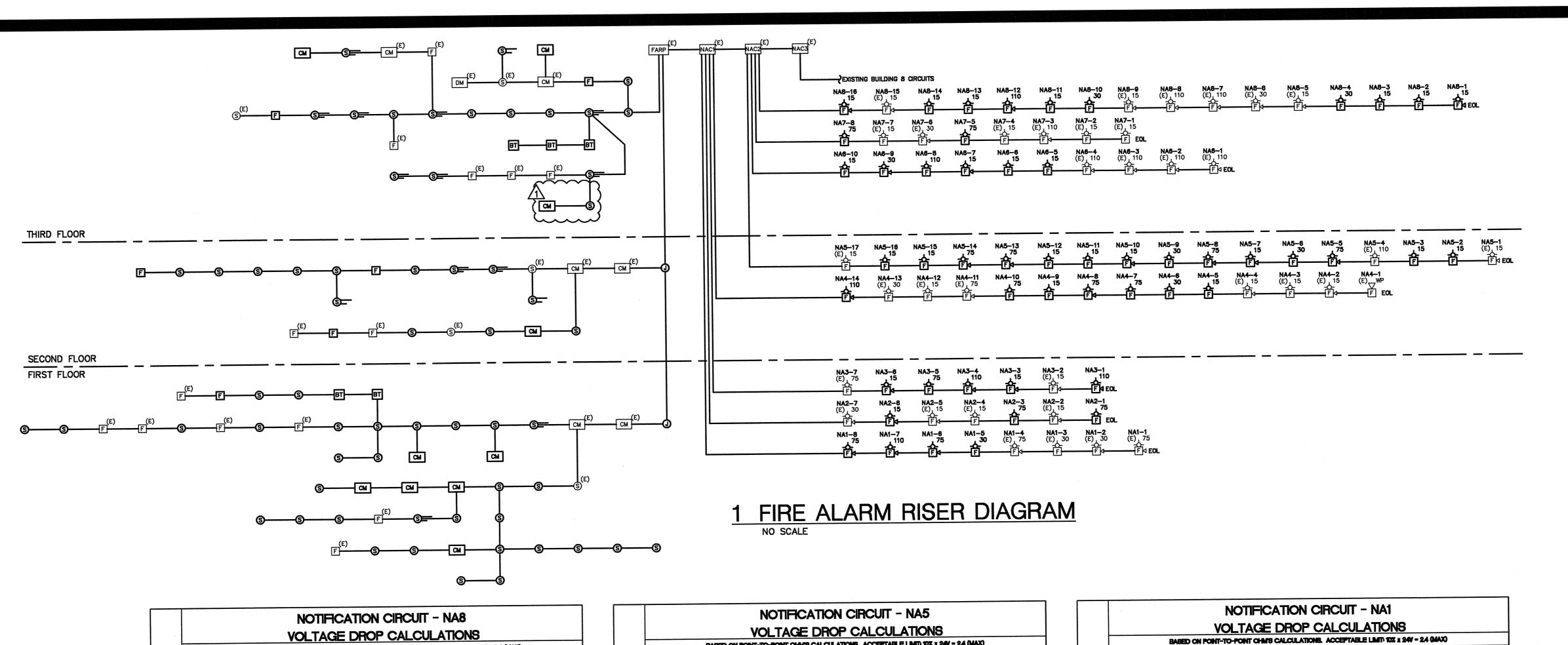
BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

FIRE ALARM PLAN THIRD FLOOR

FA3.3 Project Number

FILE: 0731FA33.DWG - FA3.3 | EDIT: 9/17/2009 2:51 PM BY JOSEPHR | PLOT: 9/17/2009 7:14 PM BY TINA LEONG



	NOTIFICATION CIRCUIT - NA8											
	VOLTAGE DROP CALCULATIONS BASED ON POINT-TO-POINT CHAPS CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 24 (MAX) CHARS = (814 FEET» 3,07/1000 +812 FEET» 183/1000 + 810 FEET» 121/1000) • 2											
		OHMB :	(814 FEET)	3,07/1000 H#12 FT	ET• 193/100	0 + 41 0 FEET• 121/10	T					
	1) A/V 15cd		0.074	2) A/V 30cd	-	0.107	3) A/V 75cd		0.184			
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.092			
	7) V/O 75cd		0.165	8) V/O 110cd		0.220	9)		0.000			
	10)		0.000	10 V/O 135cd		0.300	12) V/O 195c	d	0.420			
		то		LNEAR FEET		RESISTANCE	LOAD	VOLTAGE	ACCUM			
DEVICE	DEVICE	DEVICE	8	ETWEEN DEVIC	58	OF WIFES	ON FIUN	DROP	VOLTAGE			
TYPE #	•	•	814	#12	410	(CHME)	(AMPE)	(VOLTE)	DROP (V)			
1	1	2		10	-	0.039	0.074	0.003	0.003			
5	2	3		20		0.077	0.134	0.010	0.013			
5	3	4		30		0.116	0.194	0.022	0.036			
6	4	5	-	40		0.154	0.286	0.044	0.080			
1	5	6	-	45		0.174	0.360	0.063	0.142			
2	6	7		55		0.212	0.467	0.099	0.242			
4	7	8		45		0.174	0.711	0.124	0.365			
4	8	9		25		0.097	0.955	0.092	0.457			
1_	9	10		30		0.116	1.029	0.119	0.576			
6	10	11		30		0.116	1.121	0.130	0.706			
5	11	12		25		0.097	1.181	0.114	0.820			
4	12	13		35		0.135	1.425	0.193	1.013			
5	13	14		25		0.097	1.485	0.143	1.156			
5	14	15		25		0.097	1.545	0.149	1.305			
1	15	16		15		0.058	1.619	0.094	1.399			
1	16	17		75		0.290	1.693	0.490	1.889			

	SIEMENS										
				RRENT PER	CIRCUIT						
MODULE	QUANTITIY	STANDBY 24VDC MODULE CURRENT	EOL DEVICE	DEVICE CURRENT	TOTAL STANDBY 24VDC						
PSR-1	1	0.070			0.07						
MKB-2	1	0.005			0.00						
RCC-1/1F	1	0.075			0.07						
CSM-4	1	0.010	0.024		0.03						
ALD-2I	1	0.105		0.240	0.34						
NET-7/7M	1	0.030			0.03						
	-	TOTAL	SUPERVISOR	Y CURRENT	0.55						
			TO'	TAL A X 24	13.41						

BATTERY SIZE WITH ALARM RESERVE 1								
PS-24-8MC BATTERY CLACULAT	ION SH	EET						
STANDBY BATTERY CALCULATION	<u> </u>							
		ALARM						
PS-24-8MC	0.080	0.240						
NAC CURRENT		8.000						
		. 1						
STANDBY AH = STANDBY A X 24 =	1.920							
ALARM AH = ALARM A X $0.0833H$ =		0.686						
NO WITH THE CONTRACTOR OF THE								
TOTAL AH = ALARM AH + STANDBY AH =		2.606						
TOTAL ALL THE THE TAIL TO THE TOTAL								
BACKUP BATTERY = TOTAL AH X 1.1 =		2.867						
BACKUP BATTERT - TOTAL ATT X 1.1 -								

						IRCUIT - N CALCULAT									
		BASED				B. ACCEPTABLE LA		24 (MAX)							
		CHMB - (814 FEET» 3,07/1000 +412 FEET» 1,93/1000 + 410 FEET» 1,21/1000) • 2													
	1) A/V 15cd		0.074	2) A/V 30cd		0.107	3) A/V 75cd		0.184						
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.092						
	7) V/O 75cd		0.165	8) V/O 110cd		0.220	9)		0.000						
	10)		0.000	11) V/O 135cd		0.300	12) V/O 1850	d	0.420						
		то		LNEAR FEET		RESISTANCE	LOAD	VOLTAGE	ACCUM.						
DEVICE	DEVICE	DEVICE	В	ETWEEN DEVICE	38	OF WIFES	ON RUN	DROP	VOLTAGE						
YPE +	•	•	*14	#12	410	(OHME)	(AMPE)	(VOLTE)	DROP (V)						
1	1	2		25		0.097	0.074	0.007	0.007						
5	2	3		25		0.097	0.134	0.013	0.020						
5	3	4		25		0.097	0.194	0.019	0.039						
8	4	5		35		0.135	0.414	0.056	0.095						
3	5	6		20		0.077	0.598	0.046	0.141						
6	6	7		20	-	0.077	0.690	0.053	0.194						
1	7	8		20	-	0.077	0.764	0.059	0.253						
3	8	9		20		0.077	0.948	0.073	0.326						
6	9	10		20		0.077	1.040	0.080	0.407						
1	10	11		20		0.077	1.114	0.086	0.493						
5	11	12		30		0.116	1.174	0.136	0.629						
5	12	13		20		0.077	1.234	0.095	0.724						
3	13	14		20		0.077	1.418	0.109	0.833						
3	14	15		10		0.039	1.602	0.062	0.895						
5	15	16		20		0.077	1.662	0.128	1.023						
5	16	17		20		0.077	1.722	0.133	1.156						
5	17	NAC		160		0.618	1.782	1.101	2.257						

			N	OTIFICA	TION C	RCUIT - N	A6					
	-		VO	LTAGE	DROP (CALCULAT	TONS					
	BASED ON POINT-TO-POINT CHAPS CALCULATIONS. ACCEPTABLE LIMIT: 10% x 24V = 2.4 (MAX) CHARS = (814 FREET+ 3,07/1000 +412 FREET+ 1,93/1000 + 410 FREET+ 1,21/1000) + 2											
	1) A/V 15cd		0.074	2) A/V 30cd		0.107	3) A/V 75cd	·	0.184			
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.092			
	7) V/O 75cd		0.165	8) V/O 110cd	-	0.220	9)		0.000			
	10)		0.000	11) V/O 135cd	I	0.300	12) V/O 1950	3	0.420			
		то		LINEAR FEET	Γ	RESISTANCE	LOAD	VOLTAGE	ACCUM.			
DEVICE	DEVICE	DEVICE	96	TWEEN DEVK	CE8	OF WIFES	ON FIUN	DROP	VOLTAGE			
TYPE #	•	•	#14	412	410	(OHMB)	(AMPE)	(VOLTE)	DROP (V)			
4	1	2		25		0.097	0.244	0.024	0.024			
4	2	3		55		0.212	0.488	0.104	0.127			
4	3	4		65		0.251	0.732	0.184	0.311			
4	4	5		30		0.116	0.976	0.113	0.424			
5	5	6		15		0.058	1.036	0.060	0.484			
5	6	7		20		0.077	1.096	0.085	0.568			
1	7	8		20		0.077	1.170	0.090	0.659			
8	8	9		20		0.077	1.390	0.107	0.766			
2	9	10		15		0.058	1.497	0.087	0.853			
5	10	11		185		0.714	1.557	1.112	1.965			
Percent	Loss	8.19%			Jan. 1							

	NOTIFICATION CIRCUIT - NA7 VOLTAGE DROP CALCULATIONS									
	BASED ON POINT-TO-POINT CHMS CALCULATIONS. ACCEPTABLE LIMIT: 10% x 244 = 2.4 (MAX) CHMS = (814 FEET* 3,07/1000 +812 FEET* 193/1000 + 810 FEET* 121/1000) + 2									
		OHMB		1	⊞™ 198/100	0.107	3) A/V 75cd		0.184	
	1) A/V 15cd		0.074	2) A/V 30cd						
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.092	
	7) V/O 75cd		0.165	8) V/O 110cd		0.220	9)	·	0.000	
	10)		0.000	11) V/O 135cd		0.300	12) V/O 1850	đ	0.420	
		то		LINEAR FEET	•	RESISTANCE	LOAD	VOLTAGE	ACCUM	
DEVICE	DEVICE	DEVICE	В	ETWEEN DEVIC	28	OF WIFES	ON FIUN	DROP	VOLTAGE	
TYPE #		•	#14	#12	#10	(OHMB)	(AMP8)	(VOLTB)	DROP (V)	
5	1	2		50		0.193	0.060	0.012	0.012	
5	2	3		60		0.232	0.120	0.028	0.039	
4	3	4		65		0.251	0.364	0.091	0.131	
5	4	5		20		0.077	0.424	0.033	0.163	
7	5	6		30		0.116	0.589	0.068	0.232	
2	6	7		20		0.077	0.696	0.054	0.285	
5	7	8		20		0.077	0.756	0.058	0.344	
	8	NAC		20		0.077	0.921	0.071	0.415	

						IRCUIT - N			
		PAGEN				CALCULAT		24 04AX)	
						+ #10 FEET+ 121/10		_, ,,	
				2) A/V 30cd		0.107	3) A/V 75cd		0.184
				5) V/O 15cd		0.060	6) V/O 30cd		0.092
	7) V/O 75cd 0.165			8) V/O 110cd 0.220		9)		0.000	
	10)		0.000	11) V/O 195cd	· .	0.300	12) V/O 195c	4	0.420
		то		LINEAR FEET	*	RESISTANCE	LOAD	VOLTAGE	ACCUM.
EVICE	DEVICE	DEVICE	BE	TWEEN DEVIC	XE8	OF WINES	ON FILM	DROP	VOLTAGE
YPE .	•	•	#14	#12	#10	(CHME)	(AMPS)	(VOLTE)	DROP (V)
3	. 1	2		35		0.135	0.184	0.025	0.025
2	2	3		45		0.174	0.291	0.051	0.075
	3	4		50		0.193	0.383	0.074	0.149
6	4	5		30		0.116	0.567	0.066	0.215
<u>6</u>				1			0.050	0.038	0.253
3		6		15		0.058	0.659	0.030	<u> </u>
3 6	5	6 7		15 50		0.058	0.843	0.038	0.416
3	5								

	·		•			CIRCUIT - N CALCULAT			
		BASED	ON POINT-TO	PONT CHM8	ALCULATION	B. ACCEPTABLE LIN	ar: 10% x 24V =	2.4 (MAX)	
		CHMB	- (814 FEET»	3.07/1000 +412 F	EE T• 193/100	0 + 410 FEET® 1.21/10	00) • 2		
	1) A/V 15cd	-	0.074	2) A/V 30cd		0.107	3) A/V 75cd		0.1
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.0
	7) V/O 75cd		0.165	8) V/O 110cd		0.220	9)		0.0
	10)		0.000	10 V/O 135cd		0.300	12) V/O 1950	d	0.4
		то		LINEAR FEET	•	REGISTANCE	LOAD	VOLTAGE	ACC
DEVICE	DEVICE	DEVICE	В	ETWEEN DEVI	258	OF WITES	ON RUN	DROP	VOLT
TYPE #	•	•	#14	#12	#10	(OHME)	(AMPS)	(VOLTE)	DRO
7	1	2		35		0.135	0.165	0.022	0.0
1	2	3		30		0.116	0.239	0.028	0.0
7	3	4		35		0.135	0.404	0.055	0.1
5	4	5		75		0.290	0.464	0.134	0.2
1	5	6		25		0.097	0.538	0.052	0.2
1	6	7		20		0.077	0.612	0.047	0.3
	7	NAC		260		1.004	0.719	0.722	1.0

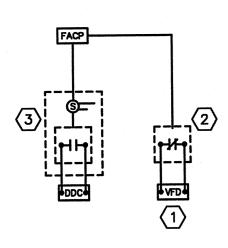
				OTIFICATION CIRCUIT - NA3 LTAGE DROP CALCULATIONS							
			ON POINT-TO	-POINT CHM8 C	ALCULATION	R. ACCEPTABLE LA	m 10% x 24V = :	2.4 QAAX)			
		OHMB			EET+ 193/100	0 + 410 FEET+ 1.21/10	T	-	0.184		
	1) A/V 15cd		0.074	2) A/V 30cd		0.107	3) A/V 75cd				
	4) A/V 110cd		0.244	5) V/O 15cd		0.060	6) V/O 30cd		0.092		
	7) V/O 75cd		0.165	8) V/O 110cd		0.220	9)		0.000		
	10)		0.000	11) V/O 135cd		0.300	12) V/O 185c	d	0.420		
		то		LINEAR FEET	l	REGISTANCE	LOAD	VOLTAGE	ACCUM		
DEVICE	DEVICE	DEVICE	. B	ETWEEN DEVIC	28	OF WIRES	ON RUN	DROP	VOLTAGE		
TYPE #	•		₹14	#12	#10	(OHME)	(AMPS)	(VOLTS)	DROP (V)		
4	1	2		40		0.154	0.244	0.038	0.038		
1	2	3		30		0.116	0.318	0.037	0.074		
1	3	4		20		0.077	0.392	0.030	0.105		
4	4	5		20		0.077	0.636	0.049	0.154		
3	5	6		30		0.116	0.820	0.095	0.249		
1	6	7		40		0.154	0.894	0.138	0.387		
7	7	NAC		260		1,004	1.059	1.063	1.450		

						B. ACCEPTABLE LIN					
	1) A/V 15cd	CHMB	0.074	2) A/V 30cd	27/1000 +4/2 FEET+ 193/1000 + 4/0 FEET+ 121/1000) + 2 2) A/V 30cd 0.107 3) A/V 75cd						
			0.244	5) V/O 15cd	2,7,1000			3) A/V 75cd 0.1 6) V/O 30cd 0.0			
				8) V/O 110cd	7,70.000				0.044		
	7) V/O 75cd		0.000	1) V/O 135cd		0.300	9) A/O 12) V/O 195ca	:	0.420		
	10)		0.000	10		1	LOAD	VOLTAGE	ACCUM		
		TO		LINEAR FEET	-	OF WINES	ON FIUN	DROP	VOLTAGE		
DEVICE	DEVICE	DEVICE		ETWEEN DEVIC		7	(AMPS)	(VOLTS)	DROP (V)		
YPE #	•	<u> </u>	814	#12	#10	(OHMB)	T	*			
9	11	2		40		0.154	0.044	0.007	0.007		
1	2	3		40		0.154	0.118	0.018	0.025		
5	3	4		25		0.097	0.178	0.017	0.042		
1	4	5		30		0.116	0.252	0.029	0.071		
5	5	6		15		0.058	0.312	0.018	0.089		
6	6	7		25		0.097	0.404	0.039	0.128		
7	7	8		40		0.154	0.569	0.088	0.216		
3	8	9		15		0.058	0.753	0.044	0.260		
5	9	10		25		0.097	0.813	0.078	0.338		
7	10	11		40		0.154	0.978	0.151	0.489		
3	11	12	T	35		0.135	1.162	0.157	0.646		
5	12	13		15		0.058	1.222	0.071	0.717		
	13	14		55		0.212	1.314	0.279	0.996		
<u>6</u> 4	14	NAC NAC		175		0.676	1.558	1.052	2,048		

NOTIFICATION CIRCUIT - NA4

SHEET KEYNOTES

- VARIABLE FREQUENCY DRIVE (VFD) AIR HANDLING UNIT FAN CONTROLLER.
- FIRE ALARM ADDRESSABLE RELAY. CONNECT TO EMERGENCY STOP INPUT ON VFD. PROGRAM TO STOP FAN ON ACTIVATION OF ASSOCIATED SMOKE DETECTION.
- FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTOR WITH INTEGRAL ADDRESSABLE RELAY. CONNECT TO DIGITAL INPUT ON DIRECT DIGITAL CONTROLLER (DDC). PROGRAM TO SHUT DOWN AIR HANDLING UNIT UPON ACTIVATION OF ASSOCIATED SMOKE DETECTION.



HVAC FAN SHUT DOWN SCHEMATIC: 2 ADDRESSABLE FA SYSTEM WITH VFD

FILE: 0731FA41.DWG - FA4.1 | EDIT: 9/17/2009 2:50 PM BY JOSEPHR | PLOT: 9/17/2009 7:14 PM BY TINA LEONG

BC

architecture planning interiors

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REMARKS	DATE
ADDENDUM NO. 1	09/18/09
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BIDDING (BID #86593) CONSTRUCTION	09/18/09

FILE NO. 41—C1

DIV. OF THE STATE ARCHITECT

O1— 110074

AC____FLS___SS___

DATE_____

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

FIRE ALARM RISER DIAGRAM AND CALCULATIONS

Drawing Number
08/29/08

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