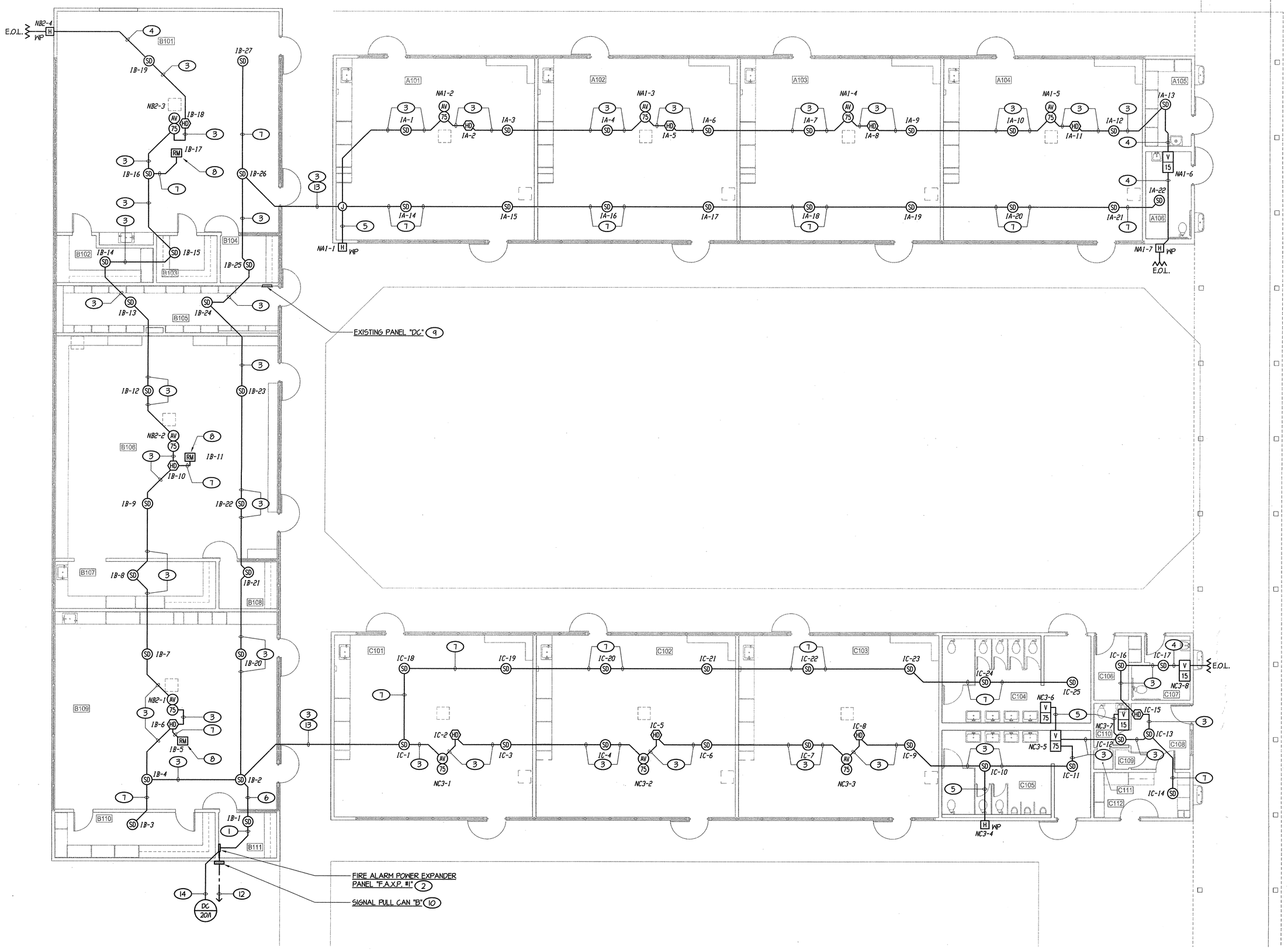

NOTES (THIS SHEET ONLY):

1. RUN 1"C - ONE "FA" CABLE, 4 #12 TO F.A.X.P. #1.
2. PROVIDE NEW FIRE ALARM EXPANDER PANEL "F.A.X.P. #1". MOUNT HIGH ON WALL JUST BELOW CEILING LEVEL. PROVIDE MODULES AND CONNECT PER DETAIL #2/E-146. INSTALL PER DETAIL #12/E-150.
3. 3/4"C - ONE "FA" CABLE, 2 #12.
4. 1/2"C - 2 #12.
5. 1/2"C - 4 #12
6. 3/4"C - ONE "FA" CABLE, 4 #12.
7. 3/4"C - ONE "FA" CABLE.
8. PROVIDE A RELAY MODULE FOR "UNIT SHUTDOWN" OF AC UNIT. FLUSH MOUNT IN T-BAR CEILING. COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL REQUIREMENTS AND INTERCONNECTION. PROVIDE ENGRAVED NAMEPLATE AT RELAY MODULE: "AC UNIT SHUTDOWN".
9. PROVIDE DEDICATED 20A 1-POLE CIRCUIT BREAKER IN (E) PANEL "DC" AND LABEL "FIRE ALARM - LEAVE ON". PROVIDE CIRCUIT BREAKER HANDLE "LOCK-ON" ACCESSORY.
10. PROVIDE PULL CAN ON EXTERIOR WALL PER DETAIL #7/E-150. RUN 1"C - ONE "SFA" CABLE FROM PULL CAN TO F.A.X.P. #1.
11. RUN ALL FEEDERS CONCEALED WHEREVER POSSIBLE. CONTRACTOR TO VERIFY ANY EXPOSED CONDUIT ROUTING WITH OWNER PRIOR TO ANY WORK.
12. REFER TO SITE ELECTRICAL PLAN, SHEET #E-111 FOR SITE CONTINUATION OF FIRE ALARM FEEDER.
13. VERIFY ROUTING OF FEEDER BETWEEN BUILDINGS WITH ARCHITECT PRIOR TO ANY WORK.
14. 1/2"C - 2 #12 + 1 #12 GND. RUN CONCEALED TO (E) PANEL "DC". FISH DOWN WALL TO PANEL "DC" AS REQUIRED OR RUN IN EXISTING SPARE CONDUIT IF AVAILABLE.

APPROVED
DIV. OF THE STATE ARCHITECT
LOS ANGELES BASIN REGIONAL OFFICE
AC ___ FLS EV SS RC
APPL NO. B 107003 DATE FEB 10 2010

SCOPE OF WORK

1. PROVIDE A NEW AUTOMATIC FIRE ALARM SYSTEM WITH SUPPLEMENTAL MANUAL FIRE DETECTION.
2. PROVIDE A FIRE ALARM CONTROL PANEL, POWER EXPANDER PANELS, ADDRESSABLE INITIATION DEVICES, NOTIFICATION APPLIANCES, CONDUIT, CABLING AND CONDUCTORS AS SHOWN ON THE DRAWINGS.
3. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE DURING INSTALLATION OF THE NEW ADDRESSABLE FIRE ALARM SYSTEM. ANY EXISTING FIRE ALARM DEVICES IN WAY OF NEW CONSTRUCTION SHALL BE RELOCATED OUT OF WAY OF NEW CONSTRUCTION AND RECONNECTED. UPON COMPLETION OF THE NEW FIRE ALARM SYSTEM, CONTRACTOR TO REMOVE ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES AND PULL OUT ALL EXISTING WIRING. PROVIDE BLANK COVERS AT EXISTING BOXES AS REQUIRED. TYPICAL FOR ALL BUILDINGS.

FIRE ALARM SYSTEM CONDUCTOR SCHEDULE

FOR INITIATION ZONES:
"FA" CABLE - WEST PENN #875 FOR INDOOR APPLICATIONS
"SFA" CABLE - WEST PENN #AQ225 FOR OUTDOOR APPLICATIONS
ALL CABLES SHALL BE U.L. LISTED AS C.E.C., TYPE "FPL" OR "FPLR"

FOR NOTIFICATION APPLIANCE CIRCUITS:
#12 AWG STRANDED COPPER CONDUCTORS, THHN/THWN INSULATION.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DB ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3.

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 3015.8; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, ARTICLE 10.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "CERTIFICATE OF COMPLETION" FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE AUTOMATIC FIRE ALARM SYSTEM SHALL COVER ALL ROOMS AND AREAS AND UPON ACTIVATION OF AN INITIATING DEVICE ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. EXCEPTION: SMOKE DETECTORS ARE NOT REQUIRED IN NON-ACCESSIBLE AREAS AS DEFINED IN EMERGENCY EXPRESS TERMS OF PROPOSED S.F.M. AMENDMENTS TO 2001 C.F.C. SECTION 210 (C.F.C. SECTIONS 1006.2.4.2.2.1) AND 1006.2.4.2.2.1.5)

ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
A101	CLASSROOM	B110	WARDROBE
A102	CLASSROOM	B111	OFFICE
A103	CLASSROOM		
A104	CLASSROOM	C101	CLASSROOM
A105	JANITOR	C102	CLASSROOM
A106	MEN	C103	CLASSROOM
		C104	GIRLS
B101	CLASSROOM	C105	BOYS
B102	SUPPLY	C106	SUPPLY
B103	STORE ROOM	C107	WOMEN
B104	OFFICE	C108	OFFICE
B105	BOOK ROOM	C109	CLOSET
B106	TECH ROOM	C110	TOILET
B107	ALCOVE	C111	SHOWER
B108	OFFICE	C112	CHECK-OUT
B109	SCIENCE ROOM		

GENERAL NOTES:

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLE.
2. FINAL FIRE ALARM TEST WILL BE WITNESSED BY LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.) WITH THE DSA INSPECTOR OF RECORD (I.O.R.).
3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (C.E.C. 110-11 AND 300-6)
4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15 dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10' OR MORE THAN 110 dBA IN TOTAL, THROUGHOUT (NFPA 72 4-3.1 AND C.F.C. 1006.3.3.3.3)
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH EVERY SECOND (NFPA 72 4-4.2).
7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM CONTROL PANEL AND POWER EXPANDER PANELS.
8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM CONTROL PANEL AND A COPY OF THE BATTERY CALCULATION AT FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW THAT FLASH IN SYNCHRONIZATION (NFPA 72 4-4.4.1.1).
10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.B.C. 1006.2.4.2.2.1.1).

NORTH

FIRE ALARM PLAN - BLDGS A, B AND C

1/8" = 1'-0"

0' 4' 8' 16'

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ARCHITECTS, INC.
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BAKERSFIELD, CALIFORNIA 93309
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FACSIMILE (661) 832-4291

LICENSED ARCHITECT DANNY E. ORDIZ No. C-14728 5-31-2011 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT WILLIAM JOHN MELBY No. C-16835 DEC. 31 2007 RENEWAL DATE STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14,728

WILLIAM J. MELBY, AIA
ARCHITECT C-16,835

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER ELECTRICAL No. E14650 Exp. 6/30/11 STATE OF CALIFORNIA

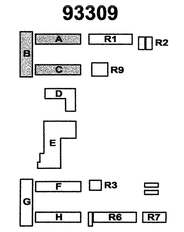
Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 03-107003
FILE # 15-6
AC ___ FLS ___ SS ___
DATE ___

MODERNIZATION AT CURRAN MIDDLE SCHOOL FOR:

BAKERSFIELD CITY SCHOOL DISTRICT

1116 LYMRIC WAY
BAKERSFIELD
CALIFORNIA
93309



BUILDING KEY PLAN

MARK	DATE	DESCRIPTION

JOB NUMBER:
2002480
CAD DRAWING FILE:

DRAWN BY:
ES
CHECKED BY:
TWR

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

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SHEET TITLE

FIRE ALARM PLAN - BLDGS A, B & C

SHEET IDENTIFICATION NUMBER

AE-141

SHEET ___ OF ___

RSA\SCHOOLS\BFIELD\BESD\CURRAN\2009 DSA BACKCHECK_AE-141.dwg REVISED: 11-14-07 BY: DP RSA JOB #07-140-RS