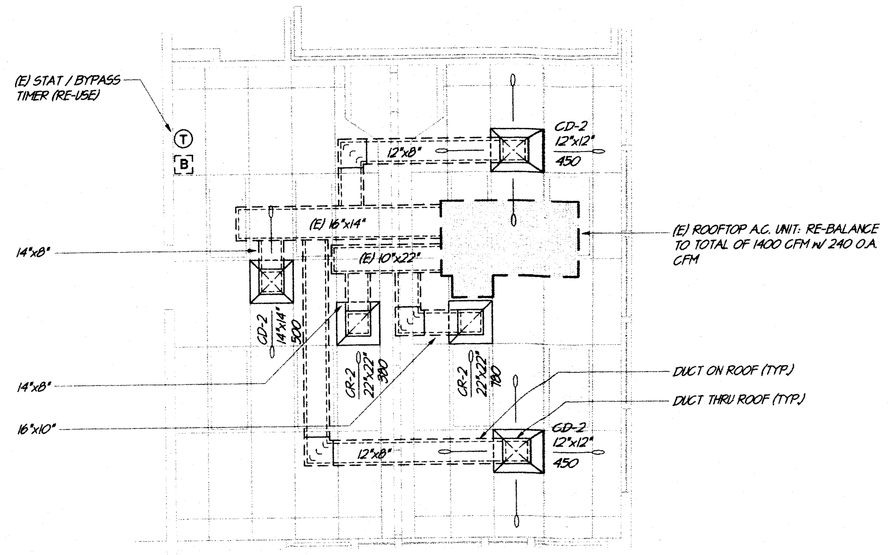


NORTH

PARTIAL MECH. PLAN

SCALE: 1/4"=1'-0" (A)

(*) NET INSIDE LINING

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE: 20% OF OPERATING WEIGHT

EQUIPMENT ON STRUCTURE: 30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE, Z = .4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER, AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE ARCHITECT.

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER, AND THE DSA FIELD ENGINEER.

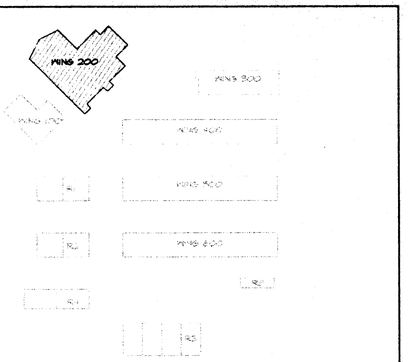
A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOBSITE AT ALL TIMES.

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

TITLE 24, PARTS 1 & 2, CCR, (1994 UBC WITH 95 C.A. AMENDMENTS)
TITLE 24, PART 3, CCR, (1993 NEC WITH 95 C.A. AMENDMENTS)
TITLE 24, PART 4, CCR, (1994 UMC WITH 95 C.A. AMENDMENTS)
TITLE 24, PART 5, CCR, (1994 UPC WITH 95 C.A. AMENDMENTS)
TITLE 24, PART 9, CCR, (1994 UFC WITH 95 C.A. AMENDMENTS)
TITLE 24, PART 12, CCR, (1994 UBC STANDARDS WITH 95 C.A. AMENDMENTS)
TITLE 19, PUBLIC SAFETY, OFFICE OF THE STATE FIRE MARSHAL.

PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY ACCEPTABLE TO DSA/ORS. (15A)

IF DURING CONSTRUCTION FIRE RATED CORRIDOR WALLS ARE DISCOVERED, ANY DUCT PENETRATIONS THROUGH THE PROTECTIVE ELEMENTS OF FIRE-RATED CORRIDOR WALLS SHALL BE PROTECTED BY COMBINATION FIRE / SMOKE DAMPERS. THE DAMPERS SHALL CONFORM TO U.B.C. STANDARDS. EXCEPTION: A MINIMUM OF 26 GAUGE STEEL DUCTS DO NOT REQUIRE COMBINATION FIRE / SMOKE DAMPERS WHEN THE DUCTS HAVE NO OPENINGS INTO THE CORRIDOR (SEC. 713.10 AND SEC. 713.11, CBC). TYPICAL ON WINGS 100-600. (15G)



KEY PLAN

MECHANICAL EQUIPMENT SCHEDULE

EF-1
Ceiling Exhaust Fan, "Penn" Z-5, 95 CFM @ .25" E.S.P., 1.9 sones, interlock with light switch. Provide discharge (Sized on plan) to "Penn" SL-20 roof cap w/ B.D.D.

Electrical: 50 watts @ 120v-1ph. Operating weight: 16 lbs.

EF-2
Roof mounted upblast direct drive Exhaust Fan, "Penn" PLX490, 550 CFM @ .25" E.S.P., 4.8 sones, interlock with light switch per detail on plans. Provide backdraft damper, sloped 8" tall canted roof curb, bird screen and solid state speed controller. # LT-30 inside dome.

Electrical: 1/6 H.P. @ 120v-1ph. Operating weight: 30 lbs.

GV-1
Roof mounted gravity vent, "Penn" model DRT, 12" dia. throat, 20" dia. dome, sloped 8" tall canted roof curb, bird screen. Operating weight: 15 lbs.

GRILLE SCHEDULE

CD	Anemostat MRDS louvered face surface mounted diffuser with O.B.D..
CD-1	Anemostat PF adjustable blow diffuser with O.B.D..
CD-2	Anemostat PAEV T-Bar mount diffuser with O.B.D..
CR	Anemostat 6C50 surface mounted ceiling return grille with O.B.D.
CR-1	Anemostat 6C5L aluminum eggcrate lay-in return grille.
CE	Anemostat 6C5 aluminum eggcrate surface mounted grille.

NORTH

MECHANICAL DEMOLITION FLOOR PLAN (WING-200)

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

NORTH

MECHANICAL FLOOR PLAN (WING-200)

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

SCArchitect, Inc.
1301 L Street
Bakersfield, CA 93301
(805) 327-1632

LICENSED ARCHITECT
STEPHEN J. CORNELL
No. C-16788
REN 11/30/00
CIVIL
STATE OF CALIFORNIA

Stephen J. Cornell, NCARB, AIA

#9906
MDC
MECHANICAL DESIGN CONCEPTS
MECHANICAL ENGINEERING SERVICES
428 Truxtun Avenue Bakersfield, California 93301
Tel & (661) 326-0121 Fax & (661) 326-0191
PLOTTED 7/29/99

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL: 03-102156
FILE: 15-6
AC FLR 13 SS N/A
DATE: AUG 19 1999

RUTH HARDING SCHOOL
MODERNIZATION
3201 PICO ST.
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

WING-200 MECHANICAL DEMOLITION AND FLOOR PLAN

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

MARK	DATE	REVISIONS
1		
2		
3		
4		
5		

REGISTERED PROFESSIONAL ENGINEER
Michael James Baker
No. M25573
Exp. 9-30-02
MECHANICAL
STATE OF CALIFORNIA

JOB NO.	957
DRAWN:	S.A.
CHECKED:	R.B.
DATE:	4/21/99

M
3.1
2 OF 5 SHEETS