Unit Id	EAT (deg. F)	LAT (deg. F)	Air Flow Rate (CFM)	Design delta T (Deg. F)	Design HW Flow Rate (gpm)	Preheat Coil Load (MBH)
HV-1	42	65	12,000	40	14.9	298
HV-2	42	65	7,000	40	8.7	174
HV-3	42	65	9,000	40	11.2	224
HV-4	42	65	7,000	40	8.7	174

PREHEAT COIL LIST

SECOND FLOOR PLAN

APPROX SCALE $\frac{1}{32}$" = 1'0"

CR 122
121
CR119
CR 120
STAFF WC
STAFF
MECH
HV-3
CR 117
CR 118
CR 115
CR 116
ELEC
116B
TEACHERS 113
MEDIA CENTER (BELOW)
CR 114
STORAGE
EXCEL 20
HV-1
MECH
ROOF HATCH
111B
TITLE ONE COMP RM 109
CR 107
CR 105
CR 103
101
ELEC
111
108B
ELEC
HV-2
MECH
STAFF
STAFF WC
CR 112
CR 110
CR 108
CR 106
CR 104
CR 102

BUILDING PUMPS

P–3, P–4:
177 GPM, 57 FT HD,
MOTOR HP: 5
TACO KV3009, OR EQUAL

MP VALVES
TACO MPV–030, OR EQUAL

BOILER ROOM
REPLACE BUILDING PUMPS, P-3 AND P-4. REPLACE MP VALVES
LOCKERS
COOLERS
KITCHEN
GYMNASIUM
CAFETERIA
STAGE
EXISTING PIPING SHOWN AS DOTTED LINES
EXISTING 3" HWS & R

FIRST FLOOR PLAN

APPROX SCALE $\frac{1}{32}$" = 1'0"

MUSIC
ADMIN
CONNECT TO EXISTING WITH NEW 2" HWS & R.
2½" HWS & R
CR 30
CR 33
ART
EXISTING 1¼" HWS & R
CR 28
CR 31
NEW FCU
PROPOSED 1½" HWS & R UP TO HV-3
26
FCU: 400 CFM, RECESSED
CR EARLY CHILDHOOD 2
CR 24
29
1½" HWS & R.
2½" HWS & R
CONNECT TO EXISTING WITH PROPOSED 1½" HWS & R.
CR 22
REMOVE DRYWALL CEILING; PATCH AND INSTALL ACCESS DOOR (TYP OF 5 LOCS)
25
27
MEDIA CENTER LIBRARY
1½" HWS & R RISE TO HV-4 ON MEZZANINE ABOVE CEILING
PROPOSED 1½" HWS & R
TITLE ONE COMP LAB 15
CR 20
EXISTING 1¼" HWS & R
CR EARLY CHILDHOOD 4
¾" HWS & R TO NEW VAVR UNIT
COMPUTER LAB 3
NEW 1¼" HWS & R. RISE TO TO HV-1 ON SECOND FLOOR ABOVE
23
9
17
2½" HWS & R
CR 5
21
19
13
11
CR 7
1½" HWS & R UP
VAVR: TRANE VCWF10, 10", 1400 CFM with HW COIL
1½" HWS & R
NEW 1¼" HWS & R. RISE TO TO HV-2 ON SECOND FLOOR ABOVE
INSTALL 12x12 RETURN GRILLS AND A 12"x12" TRANSFER DUCT FROM ROOM 4 TO ROOM 3
CR 18
CR 16
CR 14
CR 12
CR 10
CR 8
CR 6

Honeywell
501 County Road, Westbrook ME 04092

ECM 4 EMCS HEATING IMPROVEMENTS

BIDDEFORD, MAINE

REVISION	DATE	APPD

DRAWN BY: RLM	DATE: 9/16/08	SHEET: 1 OF: 1	REV:
DRAWING 1 OF 1			