

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.3, FLOOR AREA: 5,886

FAN POWER CONSUMPTION table with columns: FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY MOTOR, DRIVE, NUMBER OF FANS, PEAK WATTS

Summary table with columns: 1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F), 2) SUPPLY DESIGN AIRFLOW (CFM), 3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2), 4) SPa, 5) SPI, 6) Fan Adjustment = 1-(SPa - 1)/SPI, 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)

1. TOTAL FAN SYSTEM POWER INDEX OR ADJUSTED FAN POWER INDEX must not exceed 0.8 Watts for Constant Volume systems or 1.25 Watts for VAV systems.

ITEM or SYSTEM TAG(S)

Table with columns: PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes

1. Total installed capacity (MBtu/h) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply.

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.1, FLOOR AREA: 9,190

FAN POWER CONSUMPTION table with columns: FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY MOTOR, DRIVE, NUMBER OF FANS, PEAK WATTS

Summary table with columns: 1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F), 2) SUPPLY DESIGN AIRFLOW (CFM), 3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2), 4) SPa, 5) SPI, 6) Fan Adjustment = 1-(SPa - 1)/SPI, 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)

1. TOTAL FAN SYSTEM POWER INDEX OR ADJUSTED FAN POWER INDEX must not exceed 0.8 Watts for Constant Volume systems or 1.25 Watts for VAV systems.

ITEM or SYSTEM TAG(S)

Table with columns: PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes

1. Total installed capacity (MBtu/h) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply.

MECHANICAL VENTILATION MECH-3-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.1, FLOOR AREA: 9,190

MECHANICAL VENTILATION (Section 121(b)(2)) table with columns: ZONE/SYSTEM, AREA BASIS, OCCUPANCY BASIS, VAV MINIMUM, PRESCRIPTIVE REHEAT LIMITATION

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AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.1, AC-5.2, AC-5.3

MANDATORY MEASURES table with columns: ITEM OR SYSTEM TAG(S), T-24 Section, Reference on Plans or Specification

PRESCRIPTIVE MEASURES table with columns: Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, etc.

1. For each control and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented.

NOTES TO FIELD - For Building Department Use Only

Table with columns: EnergyPro 4.4 by EnergySoft, User Number: 4822, Job Number: 2007-0731, Page: 5 of 10

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-6.1, FLOOR AREA: 10,570

FAN POWER CONSUMPTION table with columns: FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY MOTOR, DRIVE, NUMBER OF FANS, PEAK WATTS

Summary table with columns: 1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F), 2) SUPPLY DESIGN AIRFLOW (CFM), 3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2), 4) SPa, 5) SPI, 6) Fan Adjustment = 1-(SPa - 1)/SPI, 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)

1. TOTAL FAN SYSTEM POWER INDEX OR ADJUSTED FAN POWER INDEX must not exceed 0.8 Watts for Constant Volume systems or 1.25 Watts for VAV systems.

ITEM or SYSTEM TAG(S)

Table with columns: PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes

1. Total installed capacity (MBtu/h) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply.

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.2, FLOOR AREA: 7,049

FAN POWER CONSUMPTION table with columns: FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY MOTOR, DRIVE, NUMBER OF FANS, PEAK WATTS

Summary table with columns: 1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F), 2) SUPPLY DESIGN AIRFLOW (CFM), 3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2), 4) SPa, 5) SPI, 6) Fan Adjustment = 1-(SPa - 1)/SPI, 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)

1. TOTAL FAN SYSTEM POWER INDEX OR ADJUSTED FAN POWER INDEX must not exceed 0.8 Watts for Constant Volume systems or 1.25 Watts for VAV systems.

ITEM or SYSTEM TAG(S)

Table with columns: PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes

1. Total installed capacity (MBtu/h) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply.

MECHANICAL VENTILATION MECH-3-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-5.2, FLOOR AREA: 7,049

MECHANICAL VENTILATION (Section 121(b)(2)) table with columns: ZONE/SYSTEM, AREA BASIS, OCCUPANCY BASIS, VAV MINIMUM, PRESCRIPTIVE REHEAT LIMITATION

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AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C

PROJECT NAME: Canada College, DATE: 8/26/2008, SYSTEM NAME: AC-6.1

MANDATORY MEASURES table with columns: ITEM OR SYSTEM TAG(S), T-24 Section, Reference on Plans or Specification

PRESCRIPTIVE MEASURES table with columns: Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, etc.

1. For each control and single zone air systems (or group of similar units) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented.

NOTES TO FIELD - For Building Department Use Only

Table with columns: EnergyPro 4.4 by EnergySoft, User Number: 4822, Job Number: 2007-0731, Page: 6 of 10



architecture planning interiors

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PROJECT CONTACT: Omar Hawit, INTERFACE ENGINEERING, 717 Market Street, Suite 500, San Francisco, CA 94103

ARCHITECT: LICENSED ARCHITECT, ENGINEER: REGISTERED PROFESSIONAL ENGINEER, MECHANICAL

1. This sheet is part of a set and is not to be used alone. 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.

REVISIONS table with columns: NO., DESCRIPTION, DATE

DRAWING STATUS: DSA PLAN CHECK, DSA BACK CHECK, BIDDING, CONSTRUCTION

IDENTIFICATION STAMP: FILE NO. 41-C1, 01-110074, DATE: MAR 19 2005

BUILDINGS 5 & 6 RENOVATIONS San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

TITLE 24 COMPLIANCE FORMS

Date: 01/22/09, Drawing Number: M0.3, Project Number: 07013