POWERHOUSE ENERGY CAMPUS
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Vision glazing and frames specifications:

a. Serious “Tri-Pane” C366 + HM88 or Equal.
b. Outer light: 3/16” Cardinal 366 (#2) or Equal
c. Argon Interspaces (low conductivity steel spacers): 2 @ .525” Argon
d. Central Suspended Coating: Single HM88 (#4)
e. Inner Light: 3/16” Clear
f. U – Value: 0.133
g. R – Value: 7.5
h. Summer U – Value: 0.135
i. SC (Shading Coefficient): 0.276
j. SHGC (Solar Heat Gain Coefficient) 0.24 or Better.
k. Tvis (Daylight Transmission): 56%
l. Reflectivity – Exterior: 13%
m. Reflectivity – Interior: 16%
n. LSG (Light/Solar Gain + Tvis/SHGC) Ratio: 2.3
o. Winter (0/70DegF/15mph Wind) NFRC Glass Temperature: 62 Deg F
p. Summer Glass Temp (estimated – reduced insolation): 84 Deg F
q. Interspaces (1/2”) (low conductivity steel spacers): Argon (90%)
r. Acoustic Performance (STC – estimated): 37 (provide STC value for frame and glazing assembly).
s. Overall Thickness: 1 3/8”
t. UltraViolet Blockage (to 380 nm): 99.9%
u. Overall system (including frame and glass) Max U = 0.216.
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Consulting Team:

**Mechanical Engineering**: AE Associates - Alicia Thorpe, P.E.

**Electrical / Plumbing Engineering**: SRB Consulting Engineers - Larry Smith

**Lighting / Daylighting Consultant**: Clanton and Associates - Dane Sanders, Josie Wratten

**Colorado State University Mechanical Engineering Department**: Dr. Bryan Willson, Dr. Morgan DeFoort, Kirk Evans, Mac McGoldrick


Contributing Team Members:

**Owners Representative**: JPL Development, Jeff Jensen

**City of Fort Collins’s Integrated Design Assistance Program (IDAP)**: Gary Schroeder - Energy Services Engineer & Ken Mannon - Project Manager

**Electrical Contractor**: Gregory Electric, Rod Bryant

**Hydronic Contractor**: Lind’s Plumbing, Jeff Makepeace