

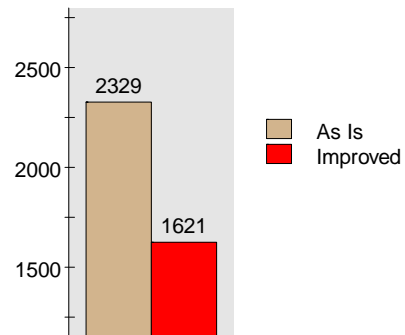
IMPROVEMENT ANALYSIS REPORT

| | | | |
|-------------------|-----------------|-----------------|------------------------------|
| Building Name: | 3500 sq/ft Home | Date: | November 27, 2007 |
| Owner's Name: | | Builder's Name: | |
| Property Address: | | Weather Site: | Boulder, CO |
| | | File Name: | SingleFamilyDetached3500.blg |

Energy Costs (\$/yr)

| End-Use | As Is | With All Improvements | Savings |
|-----------------------|-------------|-----------------------|------------|
| Heating | 848 | 495 | 353 |
| Cooling | 226 | 146 | 80 |
| Hot Water | 297 | 212 | 86 |
| Lights and Appliances | 959 | 771 | 188 |
| Photovoltaics | -0 | -0 | 0 |
| Service Charge | 0 | 0 | 0 |
| TOTAL | 2331 | 1624 | 707 |

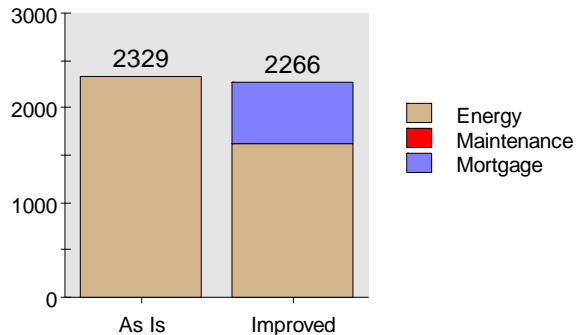
Total Costs (\$/yr)



Information For Lenders and Appraisers

| | |
|--|-------|
| Installed Cost of Improvements (\$) | 8214 |
| Cost Weighted Life of Measure (Years) | 29 |
| Mortgage Term (Years) | 30 |
| Discount/Mortgage Rate (%) | 6.750 |
| Present Value Factor | 12.6 |
| Expected Annual Energy Savings (\$) | 707 |
| Expected Annual Maintenance Costs (\$) | 0 |
| Expected Annual Savings (\$) | 707 |
| Increased Annual Mortgage Costs (\$) | 645 |
| Present Value of Savings (\$) | 8929 |
| Expected Annual Cash Flow (\$) | 61 |

Cost Comparison (\$/yr)



Recommended Improvements

| Component | Life | Cost | Yr Savings | SIR | PV | SP |
|---|------|------|------------|------|-------|-------|
| 1. Thermostat: | 30 | 20 | 17 | 11.0 | 201 | 1.15 |
| Existing: FALSE/FALSE | | | | | | |
| Proposed: TRUE/TRUE | | | | | | |
| Measure: Programable Thermostat | | | | | | |
| 2. Lights and Appliances: Light Fixture(s) | 15 | 130 | 112 | 8.0 | 908 | 1.16 |
| Existing: 2807.6-3431.5 kWh/use | | | | | | |
| Proposed: 1875.0 kWh/use | | | | | | |
| Measure: 50% CFL | | | | | | |
| 3. Infiltration: | 30 | 320 | 153 | 6.1 | 1631 | 2.09 |
| Existing: 0.5-0.7/0.5-0.7 ACHnat | | | | | | |
| Proposed: 0.3/0.3 As Specified | | | | | | |
| Measure: Achieve 0.35ACH | | | | | | |
| 4. Equip 3: DHW: | 15 | 230 | 86 | 3.5 | 565 | 2.68 |
| Existing: 50 gal. 0.54EF Gas | | | | | | |
| Proposed: 50 gal. 0.70EF Gas | | | | | | |
| Measure: Upgrade to .7EF | | | | | | |
| 5. Fnd Wall 1: Basement Wall | 30 | 126 | 26 | 2.7 | 211 | 4.76 |
| Existing: R-13 Draped, Full | | | | | | |
| Proposed: R-19 Draped, Full | | | | | | |
| Measure: Add R-6 Draped | | | | | | |
| 6. Lights and Appliances: Refrigerator | 30 | 360 | 55 | 2.0 | 345 | 6.49 |
| Existing: 697.5-852.5 kWh/use | | | | | | |
| Proposed: 592.0 kBtuh | | | | | | |
| Measure: Energy Star Fridge | | | | | | |
| 7. Equip 1: HEAT: | 30 | 672 | 103 | 2.0 | 644 | 6.50 |
| Existing: 78AFUE Gas Furn 96k | | | | | | |
| Proposed: 92AFUE Gas Furn 96k | | | | | | |
| Measure: 80->95%, 30kBtuh | | | | | | |
| Group: | 30 | 1955 | 74 | 0.5 | -1018 | 26.57 |
| 8. Window 1: Basement East Win | 30 | 1955 | | | | |
| Existing: Boulder Window | | | | | | |
| Proposed: .3/.31 | | | | | | |
| Measure: Window Upgrade | | | | | | |
| 9. Window 2: Basement South Win | 30 | 0 | | | | |
| Existing: Boulder Window | | | | | | |
| Proposed: .3/.56 | | | | | | |
| Measure: Blank | | | | | | |
| 10. Window 3: Basement North Win | 30 | 0 | | | | |
| Existing: Boulder Window | | | | | | |

IMPROVEMENT ANALYSIS REPORT

| Component | Life | Cost | Yr Savings | SIR | PV | SP |
|--|------|------|------------|-----|-------|-------|
| Proposed: .3/.31 Measure: Blank | | | | | | |
| 11. Window 4: North Windows | 30 | 0 | | | | |
| Existing: Boulder Window Proposed: .3/.31 Measure: Blank | | | | | | |
| <i>End Group</i> | | | | | | |
| 12. Equip 2: COOL: | 30 | 895 | 19 | 0.3 | -658 | 48.11 |
| Existing: 13SEER A/C 4 ton Proposed: 15SEER A/C 4 ton Measure: 2 SEER Upgrade | | | | | | |
| 13. Lights and Appliances: Dishwasher | 30 | 150 | 3 | 0.3 | -111 | 48.65 |
| Existing: 0.5-0.6 kWh/use Proposed: 0.4 kWh/use Measure: Energy Star Dishwasher | | | | | | |
| <i>Group:</i> | 30 | 2562 | 47 | 0.2 | -1968 | 54.92 |
| 14. AG Wall 1: Exterior Wall | 30 | 2562 | | | | |
| Existing: R-191 Proposed: R-19, R-5 Cont. Measure: Increase by R-5 | | | | | | |
| 15. AG Wall 2: Attic Wall | 30 | 0 | | | | |
| Existing: R-191 Proposed: R-19, R-5 Cont. Measure: Blank | | | | | | |
| 16. AG Wall 3: Garage Wall | 30 | 0 | | | | |
| Existing: R-191 Proposed: R-19, R-5 Cont. Measure: Blank | | | | | | |
| <i>End Group</i> | | | | | | |
| 17. Rim/Band 1: | 30 | 135 | 2 | 0.2 | -111 | 72.58 |
| Existing: R-0.0 / R-19.0 Proposed: R-5.0 / R-19.0 Measure: Increase by R5 | | | | | | |
| 18. Ceiling 1: | 30 | 659 | 9 | 0.2 | -547 | 75.14 |
| Existing: R-38 Blown, Attic5 Proposed: R-50 Blown, Attic Measure: Increase by R-12 | | | | | | |

Criteria

| | |
|-----------------------|----------------------------|
| Ranking Criteria: SIR | Maximum \$ Limit: No Limit |
| Cutoff: 0 | Measures: Interactive |