



COST SEGREGATION STUDY REPORT

Prepared by

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Executive Summary

This cost segregation study was conducted in accordance with IRS guidelines and the Cost Segregation Audit Techniques Guide (Publication 5653). The study utilized the Residual Estimation Method combined with Replacement Cost New Less Depreciation (RCNLD) to classify and value property components across different MACRS depreciation categories.

Property Information

Property Type: Single-Family Home

Square Footage: 1788 sq ft

Date Placed in Service: July 6, 2025

Total Cost Basis: \$425,000

Land Value: \$100,000

Depreciable Basis: \$325,000

| Classification | Total Allocated Cost | Percentage |
|----------------|----------------------|------------|
| 15-year | \$7,430.04 | 19.0% |
| 5-year | \$31,496.30 | 80.6% |
| 7-year | \$128.80 | 0.3% |

Asset Allocation by Classification

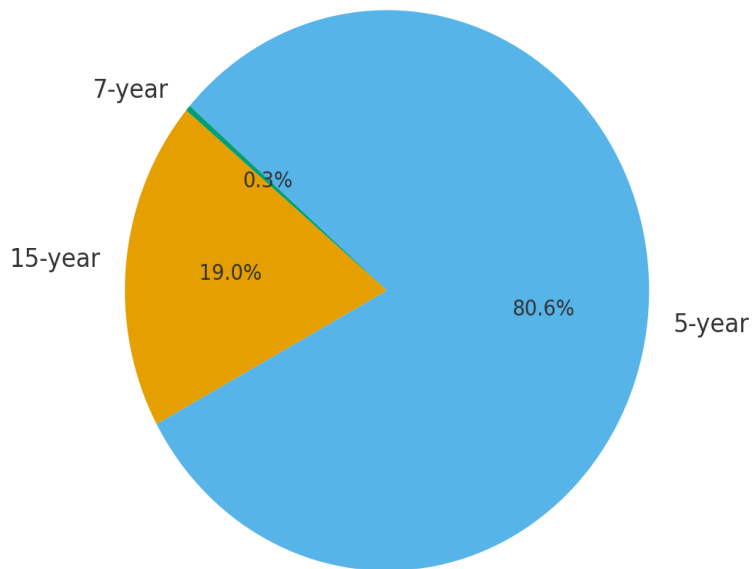


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Detailed Asset Analysis

| ID | Classification | Name | Quantity | Unit Cost | Adjusted Cost |
|-----|----------------|---------------------------|----------|------------|---------------|
| 393 | 15-year | Wood Pole Outdoor Shelter | 1 | \$2,199.99 | \$1,759.99 |
| 481 | 5-year | Dining Table | 1 | \$1,399.00 | \$839.40 |
| 447 | 5-year | Dumbbells | 2 | \$14.98 | \$23.97 |
| 427 | 5-year | Microwave Oven | 1 | \$239.00 | \$191.20 |
| 439 | 5-year | Nightstand (Right) | 1 | \$210.00 | \$168.00 |
| 436 | 5-year | Desk Lamp (Right) | 1 | \$22.99 | \$18.39 |
| 419 | 5-year | Area Rug | 1 | \$179.99 | \$143.99 |
| 476 | 15-year | Wooden Landing/Steps | 1 | \$62.00 | \$37.20 |
| 462 | 5-year | Bathroom Mirror | 1 | \$236.00 | \$141.60 |
| 437 | 5-year | Bed | 1 | \$0.00 | \$0.00 |
| 417 | 5-year | Fireplace Tool Set | 1 | \$42.99 | \$34.39 |
| 507 | 5-year | Dining Chairs | 3 | \$197.82 | \$474.77 |
| 506 | 5-year | Dining Table | 1 | \$989.99 | \$791.99 |
| 401 | 15-year | Storage Shed | 1 | \$0.00 | \$0.00 |
| 414 | 7-year | Dryer Vent Duct | 3 | \$36.50 | \$87.60 |
| 457 | 15-year | Path Light | 1 | \$18.51 | \$1.67 |
| 424 | 5-year | Peloton Bike | 1 | \$1,995.00 | \$1,396.50 |
| 397 | 5-year | Wall Art | 1 | \$21.85 | \$13.11 |
| 382 | 5-year | Smoke Detector | 1 | \$135.00 | \$81.00 |
| 486 | 5-year | Framed Artwork | 1 | \$37.52 | \$22.51 |
| 448 | 15-year | Decorative Shrubs | 10 | \$0.00 | \$0.00 |
| 421 | 5-year | Window Blinds | 1 | \$27.99 | \$16.79 |
| 386 | 5-year | Ceiling Light Fixture | 1 | \$157.00 | \$94.20 |
| 488 | 7-year | Baby Gate | 1 | \$51.50 | \$41.20 |
| 411 | 5-year | Washing Machine | 1 | \$449.99 | \$269.99 |
| 432 | 5-year | Carpet Flooring | 50 | \$26.30 | \$820.56 |
| 383 | 5-year | Smoke Detector | 1 | \$102.00 | \$61.20 |
| 491 | 5-year | Dining Chairs | 6 | \$246.99 | \$889.16 |
| 495 | 5-year | Floor Lamp | 1 | \$39.99 | \$31.99 |
| 472 | 5-year | Window Blinds | 6 | \$27.59 | \$99.32 |
| 478 | 15-year | Landscaping Shrubs | 1 | \$0.00 | \$0.00 |
| 475 | 15-year | Concrete Patio | 150 | \$5.18 | \$466.20 |
| 403 | 5-year | Shower Curtain | 1 | \$35.90 | \$21.54 |

| ID | Classification | Name | Quantity | Unit Cost | Adjusted Cost |
|-----|----------------|---------------------------------------|----------|------------|---------------|
| 536 | 5-year | Kitchen Countertop Decor | 5 | \$22.85 | \$91.40 |
| 435 | 5-year | Portable Fan | 1 | \$13.99 | \$8.39 |
| 441 | 5-year | Folding Table | 1 | \$67.99 | \$54.39 |
| 504 | 5-year | Kitchen Countertop | 20 | \$45.90 | \$734.40 |
| 477 | 15-year | Exterior Wall Light | 1 | \$134.00 | \$64.32 |
| 404 | 5-year | Bathroom Flooring | 85 | \$5.17 | \$439.45 |
| 497 | 5-year | Potted Plant | 1 | \$99.00 | \$79.20 |
| 463 | 5-year | Bathroom Rug | 1 | \$19.99 | \$15.99 |
| 501 | 5-year | Refrigerator | 1 | \$488.00 | \$219.60 |
| 531 | 5-year | Refrigerator | 1 | \$999.00 | \$639.36 |
| 505 | 5-year | Kitchen and Dining Area Tile Flooring | 300 | \$22.20 | \$5,541.12 |
| 384 | 5-year | Ceiling Light Fixture | 1 | \$115.00 | \$57.50 |
| 426 | 15-year | Wood Fence | 15 | \$71.10 | \$639.90 |
| 456 | 5-year | Exterior Wall Lights | 2 | \$134.00 | \$85.76 |
| 484 | 5-year | Ceiling Light Fixture | 1 | \$157.00 | \$125.60 |
| 389 | 5-year | Flooring | 1000 | \$7.16 | \$4,467.84 |
| 425 | 5-year | Metal Plant Stand | 1 | \$28.99 | \$23.19 |
| 494 | 5-year | Fireplace Screen | 1 | \$49.99 | \$39.99 |
| 500 | 15-year | Shrubs and Decorative Trees | 6 | \$649.95 | \$3,119.76 |
| 499 | 5-year | Window Blinds/Shades | 3 | \$42.69 | \$102.46 |
| 451 | 5-year | Office Desk | 1 | \$299.99 | \$239.99 |
| 406 | 5-year | Bath Mat | 1 | \$6.98 | \$5.58 |
| 388 | 5-year | Stool | 1 | \$65.99 | \$52.79 |
| 396 | 5-year | Portable Fan/Heater | 1 | \$119.99 | \$76.79 |
| 400 | 5-year | Picture Frame | 1 | \$24.99 | \$19.99 |
| 385 | 5-year | Smoke Detector | 1 | \$74.40 | \$47.62 |
| 461 | 5-year | Shower Curtain and Rod | 1 | \$35.90 | \$28.72 |
| 429 | 5-year | Dishwasher | 1 | \$1,070.00 | \$556.40 |
| 473 | 5-year | Outdoor Patio Furniture Set | 1 | \$659.99 | \$527.99 |
| 530 | 5-year | Dishwasher | 1 | \$1,990.00 | \$1,273.60 |
| 452 | 5-year | Office Chair | 1 | \$299.99 | \$239.99 |
| 413 | 5-year | Laundry Base Cabinet | 1 | \$250.00 | \$150.00 |
| 399 | 5-year | Smart Home Device | 1 | \$13.59 | \$2.85 |
| 431 | 5-year | Kitchen Cabinets | 25 | \$170.00 | \$3,400.00 |

| ID | Classification | Name | Quantity | Unit Cost | Adjusted Cost |
|-----|----------------|-----------------------------|----------|-----------|---------------|
| 422 | 5-year | Dog Bed | 1 | \$20.79 | \$12.47 |
| 428 | 5-year | Electric Range/Oven | 1 | \$799.00 | \$415.48 |
| 392 | 5-year | Garage Door Opener | 1 | \$403.79 | \$242.27 |
| 405 | 5-year | Bathroom Vanity Cabinet | 1 | \$349.00 | \$139.60 |
| 458 | 15-year | Shrubs | 3 | \$34.95 | \$41.94 |
| 390 | 5-year | Plug-in Detector | 1 | \$79.98 | \$40.79 |
| 459 | 5-year | Bathroom Vanity Cabinet | 1 | \$443.00 | \$265.80 |
| 442 | 5-year | Metal Patio Chairs | 2 | \$50.00 | \$80.00 |
| 445 | 5-year | Wicker Lounge Furniture Set | 3 | \$459.99 | \$1,103.98 |
| 443 | 5-year | Metal Rolling Cart | 1 | \$99.99 | \$59.99 |
| 440 | 5-year | Desk/Dresser | 1 | \$419.99 | \$335.99 |
| 453 | 15-year | Wood Deck | 220 | \$6.48 | \$855.36 |
| 508 | 5-year | Dining Area Rug | 1 | \$0.00 | \$0.00 |
| 412 | 5-year | Dryer | 1 | \$397.00 | \$238.20 |
| 446 | 5-year | Metal and Glass End Table | 1 | \$291.89 | \$233.51 |
| 394 | 5-year | Window Shade | 1 | \$27.09 | \$27.09 |
| 480 | 15-year | Garden Border | 15 | \$3.48 | \$31.32 |
| 415 | 5-year | Wood Burning Stove | 1 | \$799.99 | \$312.00 |
| 418 | 5-year | Firewood Holder | 1 | \$39.99 | \$23.99 |
| 455 | 5-year | Outdoor Benches | 2 | \$310.00 | \$496.00 |
| 485 | 5-year | Window Blinds | 1 | \$81.48 | \$65.18 |
| 482 | 5-year | Dining Chairs | 4 | \$197.82 | \$633.02 |
| 438 | 5-year | Nightstand (Left) | 1 | \$73.73 | \$58.98 |
| 498 | 5-year | Decorative Basket | 1 | \$101.39 | \$81.11 |
| 479 | 15-year | Stone Bird Bath | 1 | \$430.50 | \$258.30 |
| 535 | 5-year | Electric Kettle | 1 | \$29.99 | \$23.99 |
| 454 | 15-year | Deck Lattice Skirting | 30 | \$8.56 | \$154.08 |
| 433 | 5-year | Window Draperies | 1 | \$43.39 | \$26.03 |
| 474 | 5-year | Gas BBQ Grill | 1 | \$239.62 | \$143.77 |
| 434 | 5-year | Desk Lamp (Left) | 1 | \$26.48 | \$15.89 |
| 483 | 5-year | Area Rug | 1 | \$0.00 | \$0.00 |
| 492 | 5-year | Sofa/Bench | 1 | \$379.00 | \$227.40 |
| 490 | 5-year | Dining Table | 1 | \$172.30 | \$103.38 |
| 493 | 5-year | Side Table | 1 | \$24.99 | \$19.99 |

| ID | Classification | Name | Quantity | Unit Cost | Adjusted Cost |
|-----|----------------|--------------|----------|-----------|---------------|
| 496 | 5-year | Wall Artwork | 1 | \$96.10 | \$76.88 |

Cost Segregation Study Methodology for Single-Family Residential Real Estate

Executive Summary

This methodology provides a robust, IRS-compliant framework for conducting cost segregation studies on single-family residential properties. By integrating the Residual Estimation Method with the Replacement Cost New Less Depreciation (RCNLD) approach, it ensures precise asset classification and valuation, optimizing tax benefits while adhering to IRS guidelines, including Revenue Procedure 87-56, Treasury Regulation 1.167(a)-1, and Treasury Regulation 1.263(a)-1. Tailored for single-family residences, the methodology addresses the diverse depreciation periods of assets—5-year personal property, 7-year property, 15-year land improvements, and 27.5-year structural components—through detailed documentation and quality control, ensuring audit defensibility and alignment with the IRS Cost Segregation Audit Techniques Guide (Publication 5653, 2-2025).

Regulatory Framework and Compliance

IRS Guidelines and Standards

The methodology complies with IRS standards outlined in the Cost Segregation Audit Techniques Guide, ensuring accurate depreciation under the Modified Accelerated Cost Recovery System (MACRS). Key regulations include:

- **Revenue Procedure 87-56:** Defines asset classes for MACRS depreciation.
- **Revenue Procedure 2004-34:** Provides safe harbor guidelines for compliance.
- **Treasury Regulation 1.167(a)-1:** Governs general depreciation rules.
- **Treasury Regulation 1.263(a)-1:** Guides capital expenditure and repair allocations.

The approach incorporates IRS-recommended elements, such as detailed asset classification, standardized nomenclature, and comprehensive documentation, as specified in Chapter 4 of the Audit Techniques Guide, ensuring transparency and audit readiness.

Valuation Methodology

Residual Estimation Method

The Residual Estimation Method, endorsed by the IRS in Chapter 3, Section C.4 of the Audit Techniques Guide, serves as the primary valuation approach. It allocates the total property basis—typically the purchase price or adjusted basis—among components based on their current replacement costs adjusted for depreciation. This method is ideal for single-family residences, where assets like appliances (5-year property) and structural elements (27.5-year property) require distinct depreciation schedules to maximize tax deductions.

Application Process

1. **Inspection and Classification:** Conduct a thorough inspection to identify and classify components into IRS depreciation categories:
 - 5-year personal property (e.g., appliances, removable floor coverings)
 - 7-year property (e.g., security systems)
 - 15-year land improvements (e.g., driveways, landscaping)
 - 27.5-year residential real property (e.g., foundations, integral HVAC)
2. **Component Valuation:** Determine the Replacement Cost New (RCN) for each component, adjust for physical condition and functional obsolescence, and calculate its fair market value.
3. **Basis Allocation:** Allocate the total property basis proportionally using the formula:

Component Allocated Value = (Component Adjusted Value / Total Adjusted Values) × Total Property Basis

Where: - **Component Adjusted Value** = RCNLD after adjustments - **Total Adjusted Values** = Sum of all component RCNLD values - **Total Property Basis** = Purchase price or adjusted basis

This formula ensures precise, IRS-compliant cost allocation.

Replacement Cost New Less Depreciation (RCNLD)

The RCNLD methodology, detailed in Chapter 4, Section C.3 of the Audit Techniques Guide, calculates the current economic value of components by determining the cost to replace them with modern equivalents and applying depreciation adjustments. This is critical for single-family residences, where assets like kitchen appliances or landscaping may require significant depreciation adjustments due to age or technological obsolescence.

RCNLD Process

1. Replacement Cost New (RCN):

$$\text{RCN} = \text{Unit Cost} \times \text{Quantity}$$

Sources include Craftsman 2025 National Repair & Remodeling Estimator, SerpAPI market research, and Producer Price Index (PPI) data.

2. Time Adjustments:

- For Craftsman data:

$$\text{Time Adjusted Cost} = \text{RCN} \times (\text{Current Year Factor} / \text{Source Year Factor})$$

- For PPI data:

$$\text{Time Adjusted Cost} = \text{RCN} \times (1 + \% \text{ Change in PPI})$$

3. Location Adjustments:

$$\text{Location Adjusted Cost} = \text{Time Adjusted Cost} \times \text{Location Multiplier}$$

Using Craftsman 2025 Area Modification Factors (e.g., Denver: 1.11; Birmingham: 1.03).

4. Physical Depreciation:

Physical depreciation reflects the loss in value due to wear and tear, aging, maintenance history, and environmental damage, assessed through detailed visual inspections. This step is critical for single-family residences, where components like flooring, roofing, or HVAC systems may exhibit varying degrees of deterioration based on usage and maintenance. The assessment process involves:

- **Visual Inspection:** Evaluators examine each component for signs of wear, such as scratches on hardwood floors, rust on metal fixtures, or cracks in concrete driveways.
- **Maintenance History Review:** Documentation of repairs, replacements, or upgrades is analyzed to determine the component's remaining useful life (e.g., a well-maintained roof may retain higher value than one neglected for a decade).
- **Environmental Factors:** Exposure to elements like moisture, UV radiation, or extreme temperatures is considered, particularly for exterior components like siding or landscaping.
- **Condition Rating Assignment:** Based on the inspection, components are assigned a condition rating with corresponding multipliers to reflect their current state:

| Condition | Multiplier | Description | Examples |
|-----------|------------|---|---|
| Excellent | 1.0 | Like new condition with little to no wear | Newly installed appliances or freshly paved driveways |

| Condition | Multiplier | Description | Examples |
|-----------|------------|--|--|
| Good | 0.8 | Normal wear with full functionality | Hardwood floors with minor scratches, functional HVAC with regular maintenance |
| Fair | 0.6 | Worn, aging, but usable conditions | Faded exterior paint, aging carpet with visible wear but still functional |
| Poor | 0.4 | Assets nearing the end of their useful life | Leaking roofs requiring replacement, heavily worn countertops with damage |
| Salvage | 0.15 | Functionally obsolete or requiring replacement | Cracked concrete walkways, outdated electrical wiring unsafe for use |

- **Application Examples:**

- **Hardwood Flooring:** A 10-year-old hardwood floor with minor scratches but regular polishing may be rated “Good” (0.8 multiplier), reducing its value by 20% to account for surface wear.
- **Roofing:** A 20-year-old asphalt shingle roof with visible granule loss and minor leaks may be rated “Poor” (0.4 multiplier), reflecting significant deterioration and nearing the end of its useful life.
- **Appliances:** A 5-year-old refrigerator with normal wear but full functionality may be rated “Good” (0.8 multiplier), while a 15-year-old unit with frequent repairs may be rated “Poor” (0.4 multiplier).
- **Driveways:** A concrete driveway with significant cracks and weathering may be rated “Salvage” (0.15 multiplier), indicating it is functionally obsolete and requires replacement.

- **Documentation:** Each assessment is supported by photographs, inspector notes, and maintenance records to ensure IRS compliance and audit defensibility.

5. **Functional Obsolescence:** Adjust for outdated design or technology. Functional obsolescence is assessed by comparing assets to current market standards, considering technological advancements, energy efficiency, market preferences, and code compliance. Examples include:

- **High Obsolescence:**

- **Single-Zone HVAC Systems:** Older systems lack the efficiency and zoning capabilities of modern multi-zone units, reducing their value due to higher energy costs and limited climate control (e.g., a 15-year-old single-zone system may warrant a 30-50% reduction in value).
- **Outdated Electrical Panels:** Panels with limited capacity (e.g., 100-amp service) are insufficient for modern energy demands, such as electric vehicle charging, leading to significant obsolescence (e.g., 40% reduction).
- **Obsolete Appliances:** 10-year-old kitchen appliances, such as non-energy-efficient refrigerators or dishwashers, are less desirable due to advancements in energy standards and smart technology (e.g., 25-35% reduction).

- **Moderate Obsolescence:**

- **Older Plumbing Fixtures:** Fixtures like low-flow toilets from the early 2000s may not meet current water efficiency standards, warranting a moderate reduction (e.g., 15-25% reduction).
- **Dated Lighting Systems:** Non-LED lighting fixtures, such as incandescent or early CFL systems, are less efficient and less marketable, requiring adjustments (e.g., 10-20% reduction).
- **Low/No Obsolescence:**
 - **Structural Elements:** Foundations, framing, and roofing that meet current building codes typically incur no obsolescence, as they remain fully functional (e.g., 0% reduction).
 - **Modern Windows:** Energy-efficient windows installed within the last 5 years, compliant with current standards, generally have no obsolescence (e.g., 0% reduction). Adjustments are documented with market comparisons and industry standards to ensure IRS compliance.

6. Final RCNLD:

$$\text{RCNLD} = \text{RCN} \times \text{Time Multiplier} \times \text{Location Multiplier} \times \text{Physical Multiplier} \times \text{Functional Multiplier}$$

This process ensures accurate valuation reflecting current market conditions and asset condition.

Cost Estimation Sources

Primary Cost Sources

The methodology uses reliable, IRS-compliant cost sources:

| Source | Coverage | Application |
|---|----------------------------|--|
| Craftsman 2025 National Repair & Remodeling Estimator | Materials, labor, overhead | Flooring, fixtures, site improvements |
| SerpAPI Market Research | Real-time pricing | Appliances, lighting, specialized equipment |
| Producer Price Index (PPI) | Inflation adjustments | Over 600 product categories for cost multipliers |

Comparable Item Selection

Comparable items meet IRS standards for functional equivalence, quality comparability, market context, and timing relevance (Chapter 4, Section C.5). The selection process involves: 1. Searching for items with specific descriptions. 2. Screening for functional and quality alignment. 3. Verifying availability in residential markets. 4. Documenting steps for audit defense.

Adjustment Methodologies

Time Adjustments

Time adjustments convert historical costs to current values: - **Construction-Related Items:** Use Craftsman 2025 Building Cost Historical Index: $\text{Multiplier} = \text{Source Year Factor} / \text{Target Year Factor}$ - **Market-Based Items:** Use PPI data: $\text{Multiplier} = 1 + (\% \text{ Change in PPI})$

Location Adjustments

Location adjustments reflect regional cost variations using Craftsman 2025 Area Modification Factors:

$$\text{Location Multiplier} = 1 + (\% \text{ Adjustment} / 100)$$

Factors include labor, equipment, material costs, and local conditions.

Physical Depreciation Assessment

Physical depreciation, as detailed above, is assessed through visual inspection, evaluating wear, aging, maintenance, and environmental damage. The standardized condition multipliers and examples provided ensure consistent application, with detailed documentation to support IRS compliance.

Functional Obsolescence Assessment

Functional obsolescence is evaluated by comparing assets to current market standards, considering technological advancements, energy efficiency, market preferences, and code compliance. Detailed examples, as provided above, illustrate high, moderate, and low/no obsolescence scenarios, with adjustments supported by market data and industry standards to meet IRS requirements.

Asset Classification Standards

IRS Classification Framework

Assets are classified per Chapter 6, Section C of the Audit Techniques Guide:

| Property Type | Recovery Period | Depreciation Method | Examples |
|----------------------------------|-----------------|---|--|
| 5-Year Property (§ 1245) | 5 years | 200% declining balance or straight-line | Appliances, removable floor coverings |
| 7-Year Property (§ 1245) | 7 years | 200% declining balance or straight-line | Security systems, items with no class life |
| 15-Year Property (§ 1245/§ 1250) | 15 years | 150% declining balance or straight-line | Driveways, landscaping |
| 27.5-Year Property (§ 1250) | 27.5 years | Straight-line only | Foundations, integral HVAC |

Classification Decision Framework

- **Permanence Test:** Evaluates attachment, ease of removal, and adaptability.
- **Functional Relationship Test:** Assesses necessity for building operation, impact on value, and system integration.

These tests ensure accurate classification and depreciation treatment per IRS standards.

Quality Assurance and Audit Defense

Documentation Standards

Comprehensive documentation ensures audit defensibility (Chapter 4, Section D): - **Cost Support:** Detailed estimates, comparable item justifications, adjustment worksheets, and market research. - **Physical Evidence:** Photographs, inspection reports, condition assessments, and asset records. - **Audit Defense:** Organized files, verified calculations, expert qualifications, and regulatory compliance verification.

Limitations and Assumptions

Methodology Limitations

- **Data Availability:** Dependence on current cost data.
- **Subjective Assessments:** Condition and obsolescence evaluations.
- **Market Variability:** Fluctuating economic conditions.
- **Regulatory Interpretation:** Potential variations in IRS application.

Key Assumptions

- Cost data sources are accurate and current.
- Market conditions remain stable.
- Asset classifications align with IRS interpretations.
- Depreciation periods are correctly applied.
- Physical inspections are thorough.

Conclusion

This methodology provides a comprehensive, IRS-compliant framework for cost segregation studies on single-family residential properties. By combining the Residual Estimation Method with RCNLD, it delivers precise valuations, maximizes tax benefits, and ensures audit defensibility through rigorous documentation and quality control. Tailored to the unique needs of single-family residences, it aligns with IRS guidelines and industry standards, effectively serving taxpayers and tax authorities.

Photos & Supporting Exhibits



