

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 1

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Queen Palm

1. Trunk diameter* (D) 13CT 17OA @ 10" DBH

2. Cross-sectional area (line 1)² × 0.7854 = n/a in²

3. Condition rating 30 %

Health Poor

Structure Sparse crown, abnormal taper

Form _____

4. Functional limitations Poor soil, mediocre species 70 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 13CT feet height

7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²

8. Functional replacement tree cost Source: _____ \$ 175

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____

10. Basic functional replacement cost (line 2 × line 9) \$ _____

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 175

13. Total functional replacement cost (line 11 + line 12) \$ 350

14. Rounded \$ 350

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 2

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Queen Palm

1. Trunk diameter* (D) 13CT 18OA @ 12" DBH

2. Cross-sectional area (line 1)² × 0.7854 = n/a in²

3. Condition rating 40 %

Health _____

Structure Sparse crown

Form _____

4. Functional limitations Poor soil 70 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 13CT feet height

7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²

8. Functional replacement tree cost Source: _____ \$ 175

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____

10. Basic functional replacement cost (line 2 × line 9) \$ _____

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 175

13. Total functional replacement cost (line 11 + line 12) \$ 350

14. Rounded \$ 350

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 3

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Slash Pine

1. Trunk diameter* (D) 10" @ DBH
2. Cross-sectional area $(\text{line 1})^2 \times 0.7854 =$ 79 in^2
3. Condition rating 60 %
Health _____
Structure Topped off
Form _____
4. Functional limitations Poor soil 80 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal
7. If diameter, cross-sectional area $(\text{line 6})^2 \times 0.7854 =$ 7 in^2
8. Functional replacement tree cost Source: _____ \$ 250

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 35.37
10. Basic functional replacement cost (line 2 \times line 9) \$ 2,777.78
11. Depreciated functional replacement cost (line 10 \times line 3 \times line 4 \times line 5)
(where depreciation is appropriate) \$ 1,333.33

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 250
 13. Total functional replacement cost (line 11 + line 12) \$ 1,583.33
 14. Rounded \$ 1,580

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 4

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Red Maple

1. Trunk diameter* (D) 11 @ Lowest scaffold emergence
2. Cross-sectional area (line 1)² × 0.7854 = 95 in²
3. Condition rating 60 %
Health Small tip dieback
Structure Codominant stems
Form _____
4. Functional limitations poor soil, species issues 30 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal
7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²
8. Functional replacement tree cost Source: _____ \$ 375

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
10. Basic functional replacement cost (line 2 × line 9) \$ 5,041.67
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 907.50

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 375
 13. Total functional replacement cost (line 11 + line 12) \$ 1,282.50
 14. Rounded \$ 1,280

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 5

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 24 @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 452 in²

3. Condition rating 50 %

Health Significant trunk wound healing, surface root damage

Structure Codominant stems, weak connections, severely limited root zone

Form _____

4. Functional limitations poor soil, limited root zone 30 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 13 in²

8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 17,412

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 2,611.80

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 3,095.47

14. Rounded

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 7

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Live Oak

1. Trunk diameter* (D) 10" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 79 in²

3. Condition rating 60 %

Health _____

Structure Mediocreroot and scaffold structure

Form _____

4. Functional limitations poor soil 60 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²

8. Functional replacement tree cost Source: _____ \$ 475

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 67.20

10. Basic functional replacement cost (line 2 × line 9) \$ 5,277.78

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 1,900

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 475

13. Total functional replacement cost (line 11 + line 12) \$ 2,375

14. Rounded \$ 2,380

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 8

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Gumbo Limbo

1. Trunk diameter* (D) 11" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 95 in²

3. Condition rating 40 %

Health _____

Structure Codominant stems with weak connections, root lifting

Form _____

4. Functional limitations Poor soil 70 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3"

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²

8. Functional replacement tree cost Source: _____ \$ 342

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 48.34

10. Basic functional replacement cost (line 2 × line 9) \$ 4,593.52

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 1,286.19

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 341.67

13. Total functional replacement cost (line 11 + line 12) \$ 1,627.85

14. Rounded \$ 1,630

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 10

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 14" @ DBH
2. Cross-sectional area $(\text{line 1})^2 \times 0.7854 =$ 154 in²
3. Condition rating 50 %
Health _____
Structure Codominant stems, severely limited root zone
Form _____
4. Functional limitations Severely limited root zone, roots lifting pavement 30 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal
7. If diameter, cross-sectional area $(\text{line 6})^2 \times 0.7854 =$ 13 in²
8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
10. Basic functional replacement cost (line 2 \times line 9) \$ 5,924.92
11. Depreciated functional replacement cost (line 10 \times line 3 \times line 4 \times line 5)
(where depreciation is appropriate) \$ 888.74

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 483.67
 13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40
 14. Rounded \$ 1,380

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 11

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 14" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 154 in²

3. Condition rating 50 %

Health Scaffold damage on two stems, surface root damage

Structure Codominant stems, limited root zone

Form _____

4. Functional limitations Limited root zone 30 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 13 in²

8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 888.74

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40

14. Rounded \$ 1,380

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 12

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 14" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 154 in²

3. Condition rating 45 %

Health Loss of multiple scaffolds

Structure Poor canopy balance, significant voids, poor root structure

Form _____

4. Functional limitations poor soil, limited root zone 30 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 13 in²

8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 5,924.92

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 799.86

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 1,283.53

14. Rounded

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 13

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 14" @ DBH
2. Cross-sectional area $(\text{line 1})^2 \times 0.7854 =$ 154 in²
3. Condition rating 50 %
Health _____
Structure Codominance, poor root structure
Form _____
4. Functional limitations Roots lifting pavement, severely limited root zone 30 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal
7. If diameter, cross-sectional area $(\text{line 6})^2 \times 0.7854 =$ 13 in²
8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49
10. Basic functional replacement cost (line 2 \times line 9) \$ 5,924.92
11. Depreciated functional replacement cost (line 10 \times line 3 \times line 4 \times line 5)
(where depreciation is appropriate) \$ 888.74

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 483.67
 13. Total functional replacement cost (line 11 + line 12) \$ 1,372.40
 14. Rounded \$ 1,380

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 14

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 26" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 531 in²

3. Condition rating 50 %

Health Bark inclusion

Structure Codominance, weak connections, poor root structure

Form _____

4. Functional limitations poor soil, severely limited root zone 30 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 13 in²

8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 20,434.92

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 3,065.24

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 3,548.90

14. Rounded \$ 3,550

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 15

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Red Maple

1. Trunk diameter* (D) 8" @ DBH
2. Cross-sectional area (line 1)² × 0.7854 = 50 in²
3. Condition rating 25 %
Health Cavity and decay at failed scaffold
Structure Tip dieback
Form _____
4. Functional limitations Poor soil, species issues 30 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal
7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²
8. Functional replacement tree cost Source: _____ \$ 375

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
10. Basic functional replacement cost (line 2 × line 9) \$ 2,666.67
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 200

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 375
 13. Total functional replacement cost (line 11 + line 12) \$ 575
 14. Rounded \$ 580

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 16

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Mahogany

1. Trunk diameter* (D) 30" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 707 in²

3. Condition rating 50 %

Health Sap seepage at multiple wound sites

Structure Severe codominance, weak connections, poor root structure

Form _____

4. Functional limitations Surface root damage, severely limited root zone 30 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 4"

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 13 in²

8. Functional replacement tree cost Source: _____ \$ 484

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 38.49

10. Basic functional replacement cost (line 2 × line 9) \$ 27,206.25

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 4,080.94

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 483.67

13. Total functional replacement cost (line 11 + line 12) \$ 4,564.60

14. Rounded \$ 4,560

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 19

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Slash Pine

1. Trunk diameter* (D) 4" @ DBH

2. Cross-sectional area (line 1)² × 0.7854 = 13 in²

3. Condition rating 50 %

Health _____

Structure Poor root structure, high center of gravity

Form _____

4. Functional limitations Poor soil 90 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal

7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²

8. Functional replacement tree cost Source: _____ \$ 250

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 35.37

10. Basic functional replacement cost (line 2 × line 9) \$ 444.44

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 200

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 250

13. Total functional replacement cost (line 11 + line 12) \$ 450

14. Rounded \$ 450

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 20

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Sabal Palm

1. Trunk diameter* (D) 12CT 18OA @ 12" DBH
2. Cross-sectional area (line 1)² × 0.7854 = n/a in²
3. Condition rating 75 %
 Health _____
 Structure _____
 Form _____
4. Functional limitations none 100 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 12CT feet height
7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²
8. Functional replacement tree cost Source: _____ \$ 138

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____
10. Basic functional replacement cost (line 2 × line 9) \$ _____
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 138.33
 13. Total functional replacement cost (line 11 + line 12) \$ 276.67
 14. Rounded \$ 280

DRC

PZ20-12000038
11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 21

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Sabal Palm

1. Trunk diameter* (D) 12CT 18OA @ 12" DBH

2. Cross-sectional area (line 1)² × 0.7854 = n/a in²

3. Condition rating 60 %

Health _____

Structure Abnormal trunk taper

Form _____

4. Functional limitations none 100 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 12CT feet height

7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²

8. Functional replacement tree cost Source: _____ \$ 138

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____

10. Basic functional replacement cost (line 2 × line 9) \$ _____

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 138.33

13. Total functional replacement cost (line 11 + line 12) \$ 276.67

14. Rounded \$ 280

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 22

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Sabal Palm

1. Trunk diameter* (D) 16CT 23OA @ 12" DBH
2. Cross-sectional area (line 1)² × 0.7854 = n/a in²
3. Condition rating 80 %
Health _____
Structure _____
Form _____
4. Functional limitations none 100 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 16CT feet height
7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²
8. Functional replacement tree cost Source: _____ \$ 138

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____
10. Basic functional replacement cost (line 2 × line 9) \$ _____
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 138.33
 13. Total functional replacement cost (line 11 + line 12) \$ 276.67
 14. Rounded \$ 280

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 23

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Red Maple

1. Trunk diameter* (D) 7" @ DBH
2. Cross-sectional area (line 1)² × 0.7854 = 38 in²
3. Condition rating 30 %
Health Trunk wound
Structure Poor structure, significant dieback
Form _____
4. Functional limitations poor soil, species issues 30 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) Diameter - 3" cal
7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²
8. Functional replacement tree cost Source: _____ \$ 375

Calculations

9. Unit tree cost (line 8 / line 7 or RPAC) \$ 53.05
10. Basic functional replacement cost (line 2 × line 9) \$ 2,041.67
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ 183.75

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 375
 13. Total functional replacement cost (line 11 + line 12) \$ 558.75
 14. Rounded \$ 560

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 9/12/20 Case # 28

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Queen Palm

1. Trunk diameter* (D) 23CT 30OA @ 12" DBH
2. Cross-sectional area (line 1)² × 0.7854 = n/a in²
3. Condition rating 75 %
Health _____
Structure _____
Form _____
4. Functional limitations poor soil 50 %
5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 23CT feet height
7. If diameter, cross-sectional area (line 6)² × 0.7854 = 7 in²
8. Functional replacement tree cost Source: _____ \$ 175

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____
10. Basic functional replacement cost (line 2 × line 9) \$ _____
11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

- Cleanup _____ \$ _____
- Replacement tree installation _____ \$ _____
- Aftercare _____ \$ _____
- Hardscape (specify) _____ \$ _____
12. Total additional costs \$ 175
 13. Total functional replacement cost (line 11 + line 12) \$ 350
 14. Rounded \$ 350

DRC

PZ20-12000038

11/4/2020

Functional Replacement Method Trunk Formula Technique

Client name _____ Date 1/14/20 Case # 29

Phone _____ E-mail _____

Address Ahern project site: 205 NW 12 Avenue, Pompano Beach, Florida

Subject tree

Species Queen Palm

1. Trunk diameter* (D) 22CT 28OA @ 10" DBH

2. Cross-sectional area (line 1)² × 0.7854 = n/a in²

3. Condition rating 65 %

Health _____

Structure _____

Form _____

4. Functional limitations poor soil 50 %

5. External limitations none 100 %

Functional replacement tree

Utility or benefit to be replaced _____

Replacement plan _____

Species _____

6. Size (specify diameter or height) 22CT feet height

7. If diameter, cross-sectional area (line 6)² × 0.7854 = _____ in²

8. Functional replacement tree cost Source: _____ \$ 175

Calculations

Palms were not depreciated for this appraisal

9. Unit tree cost (line 8 / line 7 or RPAC) \$ _____

10. Basic functional replacement cost (line 2 × line 9) \$ _____

11. Depreciated functional replacement cost (line 10 × line 3 × line 4 × line 5)
(where depreciation is appropriate) \$ _____

Additional costs

Cleanup _____ \$ _____

Replacement tree installation _____ \$ _____

Aftercare _____ \$ _____

Hardscape (specify) _____ \$ _____

12. Total additional costs \$ 175

13. Total functional replacement cost (line 11 + line 12) \$ 350

14. Rounded \$ 350

DRC

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11/4/2020