Project Name: Microfilm Transition

Project ID: D91216MF

| Leadership | Group: Lan | d | | | | | | |
|---|----------------------|-------------------------|-----------|-----------------|-----------------|-------------------------------------|--------|--|
| Department: Register of Deeds/Treasury | | | | | Division: Clerk | /ROD - Microgr | aphics | |
| Project Sponsor: Jennifer Date Requ Conte/Jody DeFoe | | | | lested | : 03/01/2020 | PM Custom | er No. | |
| Request Ty | /pe:XNewL | Development I | Enhancem | nent | Customer | Support | | |
| | | Planned Syste | em Mainte | nance | or Upgrade | | | |
| IT Team Na | ıme: Assessi | ng & Taxation | | IT Team No: 9 | | | | |
| Project Ma | nager/Leade | r: Addie Hankins | 5 | | | | | |
| Account Number: | 91000 | Account Description: | ROD/Tr | reasur | y Land | Customer Name: ROD/Treasury Land | | |
| Grant Fund | Grant Funded? Yes No | | | Mandate? | | Yes | Νο | |
| | | | | Mandate Source: | | | | |

Project Goal

To determine feasibility and implement a solution to improve and consolidate microform management so that records can be stored and maintained in an appropriate format that allows for compliance with document retention requirements.

Register of Deeds - The goal is to upgrade the hardware and/or software within the micrographics department in order to provide a more modern format of digital conversion services to various departments.

Treasury – To convert historic microform (e.g. microfilm, microfiche, etc.) records to a digital format so that it will allow ease of use to county departments and general public, retire aging microfilm readers, and convert paper to digital format to eliminate paper documents stored in boxes.

Business Objective

Microfilm has been used for decades as a compact means of storing current documents for various departments:

- Treasurer's office: tax rolls, delinquent tax rolls and special assessment rolls which are required to be stored for decades under the record retention requirements of the State of Michigan'
- Clerk's office: Affidavit's; Adoptions, Medical Examiner offices.

Unfortunately, the microfilm readers haven't held up as well as the microfilm has. It is difficult to find a working machine or a company able to repair them or offer a maintenance contract. Without working readers, we are not in compliance with the law.

Project Name: Microfilm Transition

Major Deliverables

- Feasibility Study to determine possible solutions
- Meet with vendors to discuss possible solutions to determine if RFP is needed
- Create and Release RFP
- Working with Laserfiche to set up workflow process
- Detailed Project Plan
- Application and/or System Requirements
- End User Hardware and Software Requirements Document
- Technical Design Document
- Technical Architecture Diagram
- Training Plan
- User Acceptance Test Plan
- Implementation Plan
- Training/User Manual(s)
- Service Center Knowledge Documents

Approach

- Develop Detailed Project Plan
- Review current business process and conduct needs assessment with customer, ensuring current manual processes are refined and automated.
- Document system requirements
- Determine and document system architecture and diagram
- Assess User Hardware, conversion Software Requirements, and Laserfiche workflow requirements
- Conduct Tech Review
- Order hardware and conversion software
- Develop Implementation Plan
- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Project Name: Microfilm Transition

Research & Analysis

Gartner Research Recommendation:

Paper Documents to Digital Conversion Services

- Determine volume of documents, types of documents, and retention requirements when determining outsourcing vs. keeping in house.
- Outsourcing is recommended for high volumes of documents, and if there are no security concerns. Imaging infrastructure consisting of high-volume scanners, scan stations and imaging software requires significant investment.
- Outsourcing doesn't make sense in all circumstances, so keeping document imaging inhouse is sometimes the best answer. If equipment will be needed for future projects, then purchasing equipment might be a better option.
- Consider outsourcing as a viable alternative when you need to scan old paper files and convert them to electronic form. With this type of conversion, outsourcing typically costs less than doing it in-house.

Microfilm to Digital Conversion

• No information found in the research

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users Public

Divisions Register of Deeds – Micrographics & Treasurer's Office

Leadership Groups Land

| Project Name: Microfilm | Fransition F | Project ID: D91216MF |
|--|---|----------------------|
| <u>Risk</u> | | |
| Business Environment | Medium – Project will require some changes processes | to existing business |
| Technical Environment | Medium – Project will require some changes processes | to existing business |
| Assumptions | | |
| Staffing IT Staffing: r project plan. | esources will be available for the hours indicate | ed per the attached |

Other Staffing: additional staffing will be available as follows: **Role: Name Hours per Dav**

| Kole. | Name | Hours per Day |
|------------------|---------------------------|---------------|
| Project Sponsor: | Jennifer Conte/Jody Defoe | As Needed |

Facilities

• N/A

Technical

• The hardware/software to perform the conversions will integrate with Laserfiche.

Funding

- IT will purchase the hardware and bill back to the customer
- The Micrographics department will fund this project by providing microform conversion services to various departments.

Other

None

Priority

• TBD

Project Name: Microfilm Transition

Project ID: D91216MF

Constraints

• Storage will not be needed for this project.

Exclusions

• The ROD/Micrographics department will not store any digital documents for other departments.

Project Name: Microfilm Transition

Project ID: D91216MF

| PROJECT PHASE AUTHORIZATION |
|-----------------------------|
| |

| Phase(s): All | | |
|--|------------------|-------|
| Total Estimated Application Services | Hours: 714 | |
| Total Estimated Technical Systems | Hours: 76 | |
| Total Estimated CLEMIS | Hours: | |
| Total Estimated Internal Services | Hours: | |
| IT Application Services Division Manager Approval: | | Date: |
| IT Technical Systems Division Manager Approval: | | Date: |
| IT CLEMIS Division Manager Approval: | | Date: |
| IT Internal Services Division Manager Approval: | | Date: |
| IT Management Approval: | | |
| Approved: Yes No | | Date: |
| Reason: | | |
| Project Sponsor Approval: | | |
| Title: | | Date: |

PROJECT SUMMARY

| Authorized Development (see above) | Hours: | | |
|---|--------|-----|---------------|
| Preliminary Estimated Development for Future Phases | Hours: | | |
| | | | |
| Grand Total Estimated Development | Hours: | 790 | Cost: 130,350 |

Project Name: Microfilm Transition

Project ID: D91216MF

PROJECT COMPLETION AUTHORIZATION

| Customer Acceptance of Product: | | | | |
|---------------------------------|-------|--|--|--|
| Title: | Date: | | | |
| Project Office Review: | Date: | | | |

Microfilm Transition - Size Estimate (+/- 10% to 50%)

| 1 | Туре | ID | Task Name | Estimated |
|----|-------|--------|------------------------------|-----------|
| 2 | | | | Hours |
| 3 | 3 | 000000 | PROJECT MANAGEMENT | 250 |
| 4 | Phase | 100000 | DEVELOP RFP & SELECT VENDOR | 282 |
| 5 | Phase | 200000 | DEFINE BUSINESS REQUIREMENTS | 53 |
| 6 | Phase | 300000 | DESIGN SYSTEM ARCHITECTURE | 73 |
| 7 | Phase | 400000 | IMPLEMENT VENDOR APPLICATION | 71 |
| 8 | Phase | 500000 | IMPLEMENTATION PHASE | 48 |
| 9 | Phase | 600000 | POST IMPLEMENTATION SUPPORT | 13 |
| 10 | | | | 790 |

Project Summary

| Description | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|--|-----------|----------|---------|---------|---------|---------|---------|
| Benefits/Savings: | | | | | | | |
| Tangible Benefits Subtotal: | 99,890 | 100,889 | 101,898 | 102,917 | 103,946 | 104,985 | 614,525 |
| Cost Avoidance Subtotal: | 17,265 | 17,438 | 17,612 | 17,788 | 17,966 | 18,146 | 106,215 |
| Costs: | | | | | | | · · · |
| Development Services Subtotal: | 130,350 | 4,950 | 4,950 | 4,950 | 4,950 | 4,950 | 155,100 |
| Hardware Subtotal: | 158,198 | 13,998 | 13,998 | 13,998 | 13,998 | 13,998 | 228,188 |
| Software Subtotal: | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Infrastructure Subtotal | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Training Subtotal: | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Subtotal: | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Annual Statistics: | | | | | | | |
| Annual Total Savings | 117,155 | 118,327 | 119,510 | 120,705 | 121,912 | 123,131 | 720,739 |
| Annual Total Costs | 288,548 | 18,948 | 18,948 | 18,948 | 18,948 | 18,948 | 383,288 |
| Annual Return on Investment | (171,393) | 99,379 | 100,562 | 101,757 | 102,964 | 104,183 | 337,451 |
| Annual Costs/Savings Ratio | 246.30% | 16.01% | 15.85% | 15.70% | 15.54% | 15.39% | |
| Project Cumulative Statistics: | | | | | | | |
| Cumulative Total Savings | 117,155 | 235,482 | 354,991 | 475,696 | 597,608 | 720,739 | 720,739 |
| Cumulative Total Costs | 288,548 | 307,496 | 326,444 | 345,392 | 364,340 | 383,288 | 383,288 |
| Cumulative Return on Investment | (171,393) | (72,014) | 28,547 | 130,304 | 233,268 | 337,451 | 337,451 |
| Cumulative Cost/Savings Ratio | 246.30% | 130.58% | 91.96% | 72.61% | 60.97% | 53.18% | 53.18% |
| Year Positive Payback Achieved | | | Year 3 | | | | Year 3 |
| State or Federal Mandate? | | | | | | | |
| Signatures: | | | | | | | |
| Benefits Reviewed By Project Sponsor | | | | Date: | | | |
| Costs (including IT Resources) Reviewed By Information Technology Project Manager | | | | Date: , | | | |

Savings Detail

| | Project Savings | | Unit | | Rate per | | Annual |
|--|--------------------|--------------------------------|------|-------|----------|----------------------|------------|
| Benefit/Savings Description | Category | Budget Category/Funding Source | Desc | Units | Unit | Total Savings | Multiplier |
| ROD - Film Retrieval | Cost Avoidance | | HR | 520 | 22 | 11,440 | 1.010 |
| Treasurer - will save staff costs by | | | | | | | |
| converting the microfilm documents to a | 1 | | | | | | |
| digital format. | Cost Avoidance | | ANN | 1 | 5,760 | 5,760 | 1.010 |
| ROD - Paul G Warne Contract is | | | | | | | |
| maintenance on 2 of the existing | | | | | | | |
| microfilm machines. | Tangible Benefit | | ANN | 1 | 4,300 | 4,300 | 1.010 |
| ROD - Praxair Contract - maintenance | | | | | | | |
| contract for the film feeder. Converts | | | | | | | |
| document to film. | Tangible Benefit | | ANN | 1 | 600 | 600 | 1.010 |
| ROD - Allan Brenner Supply Contract - | | | | | | | |
| contract for supplies including film, film | | | | | | | |
| reels, development supplies, and | | | | | | | |
| printer toner kits | Tangible Benefit | | ANN | 1 | 30,000 | 30,000 | 1.010 |
| ROD - Graphic Sciences Contract - | | | | | | | |
| maintenance on 2 of the Minolta | | | | | | | |
| machines | Tangible Benefit | | ANN | 1 | 29,045 | 29,045 | 1.010 |
| | | | | | | | |
| ROD - Printer Makers Service Contract | Tangible Benefit | | ANN | 1 | 35,945 | 35,945 | 1.010 |
| Treasurer - Print Supplies | Cost Avoidance | | ANN | 1 | 65 | 65 | 1.010 |
| Ease of Access | Intangible Benefit | | | | | 0 | 1.010 |
| Employee Health and Safety | Intangible Benefit | | | | | 0 | 1.010 |
| Film has shelf life | Intangible Benefit | | | | | 0 | 1.010 |
| Film can be corrupted | Intangible Benefit | | | | | 0 | 1.010 |
| Providing services in the digital age | Intangible Benefit | | | | | 0 | 1.010 |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |
| | | | | | | 0 | |

Savings Detail

| | | Affects Project ROI? | | | | ct R | 01? | Potential Savings Extensions | | | | | |
|--|-----------------------------|----------------------|------------------------|----|----|------|-----------|------------------------------|-----------|-----------|-----------|-----------|--------|
| Benefit/Savings Description | Project Savings Category | Y1 | Y2 | Y3 | Y4 | Y5 | 5 Y6 | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
| ROD - Film Retrieval | Cost Avoidance | X | X | X | X | X | X | 11,440.00 | 11,554.40 | 11,669.94 | 11,786.64 | 11,904.51 | 12,024 |
| Treasurer - will save staff costs by | | | 1 | | 1 | 1 | | | | , | · · · | | , |
| converting the microfilm documents to a | | | 1 | 1 | | 1 | | | | | | | |
| digital format. | Cost Avoidance | х | Х | Х | Х | X | Х | 5,760.00 | 5,817.60 | 5,875.78 | 5,934.53 | 5,993.88 | 6,054 |
| ROD - Paul G Warne Contract is | | | 1 | 1 | 1 | | 1 | | | | | | |
| maintenance on 2 of the existing | | | | | | | | | | | | | |
| microfilm machines. | Tangible Benefit | Х | X | X | Х | X | X | 4,300.00 | 4,343.00 | 4,386.43 | 4,430.29 | 4,474.60 | 4,519 |
| ROD - Praxair Contract - maintenance | | | 1 | 1 | | | | | | | | | |
| contract for the film feeder. Converts | | | 1 | 1 | | | | | | | | | |
| document to film. | Tangible Benefit | Х | X | X | X | X | X | 600.00 | 606.00 | 612.06 | 618.18 | 624.36 | 631 |
| ROD - Allan Brenner Supply Contract - | | | 1 | | | 1 | | | | | | | |
| contract for supplies including film, film | | | 1 | 1 | | | | | | | | | |
| reels, development supplies, and | | | | 1 | | | | | | | | | |
| printer toner kits | Tangible Benefit | Х | Х | Х | Х | Х | Х | 30,000.00 | 30,300.00 | 30,603.00 | 30,909.03 | 31,218.12 | 31,530 |
| ROD - Graphic Sciences Contract - | | | | | | | | | | | | | |
| maintenance on 2 of the Minolta | | | | | | | | | | | | | |
| machines | Tangible Benefit | Х | Х | Х | Х | Х | Х | 29,045.00 | 29,335.45 | 29,628.80 | 29,925.09 | 30,224.34 | 30,527 |
| ROD - Printer Makers Service Contract | Tangible Benefit | x | x | x | x | x | x | 35,945.00 | 36,304.45 | 36,667.49 | 37,034.17 | 37,404.51 | 37,779 |
| Treasurer - Print Supplies | Cost Avoidance | | | | | | X | 65.00 | 65.65 | 66.31 | 66.97 | 67.64 | 68 |
| Ease of Access | Intangible Benefit | | $\left \right\rangle$ | ľ. | 1^ | Ê | \square | 00.00 | 00.00 | 00.01 | 00.07 | 07.04 | 00 |
| Employee Health and Safety | Intangible Benefit | | 1 | | | 1 | 1 | | | | | | |
| Film has shelf life | Intangible Benefit | | 1 | 1 | | | | | | | | | |
| Film can be corrupted | Intangible Benefit | | 1 | 1 | | 1 | | | | | | | |
| Providing services in the digital age | Intangible Benefit | _ | 1 | | 1 | 1 | 1 | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | _ | | | 1 | | | | | | | | |
| | | | | | 1 | | 1 | | | | | | |
| | | | 1 | 1 | 1 | | 1 | | | | | | |
| | | | 1 | 1 | | | | | | | | | |
| | | _ | 1 | 1 | | | | | | | | | |
| | | | 1 | l | 1 | 1 | 1 | | | | | | |
| | | | | | 1 | 1 | 1 | | | | | | |
| | | | 1 | | 1 | 1 | 1 | | | | | | |
| | | | l | l | 1 | İ | 1 | | | | | | |
| | | | | 1 | l | | 1 | | | | | | |
| | | | | | l | | 1 | | | | | | |
| | | | 1 | 1 | Ì | 1 | 1 | | | | | | |

Savings Summary

| Benefit/Savings Description | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|--|--------|---------|---------|---------|---------|---------|---------|
| Fangible Benefit: | | | | | | | |
| ROD - Paul G Warne Contract is | | | | | | | |
| maintenance on 2 of the existing microfilm | | | | | | | |
| machines. | 4,300 | 4,343 | 4,386 | 4,430 | 4,475 | 4,519 | 26,454 |
| ROD - Praxair Contract - maintenance | | | | | | | |
| contract for the film feeder. Converts | | | | | | | |
| document to film. | 600 | 606 | 612 | 618 | 624 | 631 | 3,691 |
| ROD - Allan Brenner Supply Contract - | | | | | | | |
| contract for supplies including film, film | | | | | | | |
| reels, development supplies, and printer | | | | | | | |
| toner kits | 30,000 | 30,300 | 30,603 | 30,909 | 31,218 | 31,530 | 184,560 |
| | | | | | | | |
| ROD - Graphic Sciences Contract - | | | | | | | |
| maintenance on 2 of the Minolta machines | 29,045 | 29,335 | 29,629 | 29,925 | 30,224 | 30,527 | 178,685 |
| ROD - Printer Makers Service Contract | 35,945 | 36,304 | 36,667 | 37,034 | 37,405 | 37,779 | 221,134 |
| | | | | | | | |
| Tangible Benefits Subtotal: | 99,890 | 100,889 | 101,898 | 102,917 | 103,946 | 104,985 | 614,525 |
| | | | | | | | |
| Cost Avoidance: | | | | | | | |
| ROD - Film Retrieval | 11,440 | 11,554 | 11,670 | 11,787 | 11,905 | 12,024 | 70,379 |
| Treasurer - will save staff costs by | | | | | | | |
| converting the microfilm documents to a | | | | | | | |
| digital format. | 5,760 | 5,818 | 5,876 | 5,935 | 5,994 | 6,054 | 35,436 |
| Treasurer - Print Supplies | 65 | 66 | 66 | 67 | 68 | 68 | 40 |
| | | | | | | | |
| Cost Avoidance Subtotal: | 17,265 | 17,438 | 17,612 | 17,788 | 17,966 | 18,146 | 106,21 |
| ntangible Benefit: | | | | | | | |
| Ease of Access | | | | | | | |
| Employee Health and Safety | | | | | | | |
| Film has shelf life | | | | | | | |
| Film can be corrupted | | | | | | | |
| Providing services in the digital age | | | | | | | |

Savings Summary

| | Benefit/Savings Description | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|----|-----------------------------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | | | |
| | | | | | | | | |
| Sa | avings Total: | 117,155 | 118,327 | 119,510 | 120,705 | 121,912 | 123,131 | 720,739 |

Return on Investment Analysis

| | | | | | | | | Affects Pro | | ojec | t RC | או ? | |
|--|--------------------------|-----------------------------------|--------------|-------|------------------|------------|----------------------|-------------|--------|--------|--------|-----------|----|
| Cost Description | Project Cost Category | Budget Category/Funding Source | Unit Desc | Units | Rate per Unit | Total Cost | Annual Multiplier | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
| IT Hours - New Development | Development Svcs | | HR | 790 | 165 | 130,350 | | Х | | | | | |
| IT Hours - System Maintenance | Development Svcs | | HR | 10 | 165 | 1,650 | | | X X | X X | X X | X | Х |
| IT Hours - Customer Support | Development Svcs | | HR | 20 | 165 | 3,300 | | | Х | X | Х | X | Х |
| IT Hours - Planned Maintenance | Development Svcs | | | | 165 | 0 | | | | ł | | | |
| User Hours - New Development | Development Svcs | | | | | 0 | | | | 1 | | | |
| User Hours - PTNE/OT | Development Svcs | | | | | 0 | | | | 1 | | | |
| Contractor Professional Services | Development Svcs | | | | | 0 | | | | 1 | | | |
| PC System - Acquisition | Hardware | | | | 687 | 0 | | | | 1 | | \square | |
| PC System - Maintenance | Hardware | | | | 2,936 | 0 | | | | 1 | [| | |
| Notebook - Acquisition | Hardware | | | | 1,115 | 0 | | | | 1 | | | |
| Notebook - Maintenance | Hardware | | | | 3,024 | 0 | | | | 1 | | | |
| Tablet Notebook - Acquisition | Hardware | | | | 1,421 | 0 | | | | 1 | | | |
| Tablet Notebook - Maintenance | Hardware | | | | 2,800 | 0 | | | | ĺ | | | |
| Microfilm & Microfiche Carrier - | | | | | | | | | | 1 | | | |
| Aquisition | Hardware | | EA | 2 | 72,100 | 144,200 | | х | | | ! | | |
| Microfilm & Microfiche Carrier - | | | | | | | | | | 1 | | | |
| Maintenance | Hardware | | EA | 2 | 6,999 | 13,998 | | Х | Х | х | Х | X | Х |
| PC Maintenance User Owned | Hardware | | | | 2,720 | 0 | | | | ĺ | | | |
| Printer Maintenance User Owned | Hardware | | | | 1,264 | 0 | | | | | | | |
| File Space (100GB) | Hardware | | ANN | | 23 | 0 | | | | | | | |
| Package Software - Acquisition | Software | | | | | 0 | | | | 1 | | | |
| Package Software - Maintenance | Software | | | | | | | | | 1 | | | |
| Business Objects Access | Software | | | | | 0 | | | | ĺ | | | |
| Term Emulation SFTW-Acquisition | Software | | | | | 0 | | | | 1 | | | |
| Term Emulation SFTW-Maintenance | Software | | | | | 0 | | | | 1 | | | |
| Server - Acquisition/Upgrade | Infrastructure | | | | 8,000 | 0 | | | | 1 | | | |
| Server - Maintenance | Infrastructure | | | | 360 | 0 | | | | 1 | | | |
| Server Sftwre - Acquisition/Upgrade | Infrastructure | | | | 335 | 0 | | | | i i | İ | | |
| Server Sftwre - Maintenance | Infrastructure | | | | | 0 | | | | l | | | |
| Server Rack Mount | Infrastructure | | | | 400 | 0 | | | | 1 | | | |
| Oracle Enterprise Per Processor - | | | | | | | | | | | | | |
| Includes Year 1 Maintenance | Infrastructure | | | | 21,372 | 0 | | | | | | | |
| Oracle Enterprise Per Processor - Year | | | | | , | | | | | İ | | | |
| 2 and Beyond | Infrastructure | | | | 3,432 | 0 | | | | | | | |

Return on Investment Analysis

| | | | | | | | | Affects Project | | ROI? | | |
|---------------------------------------|----------------|-------------------------|------|-------|----------|------------|------------|-----------------|----|------|--------------|---------|
| | Project Cost | Budget Category/Funding | Unit | | Rate per | | Annual | | | | | |
| Cost Description | Category | Source | Desc | Units | Unit | Total Cost | Multiplier | Y1 | Y2 | Y3 | Y 4¦` | Y5 Y6 |
| SQL Server Enterprise - Per Processor | | | | | | | | | | | | |
| (4 cores) - Purchased Sept 2016-Aug | | | | | | | | | - | | | |
| 2017 - Includes Maintenance thru Aug | | | | | | | | | | | | |
| 2019 | Infrastructure | | | | 24,533 | 0 | | | | | | |
| SQL Server Enterprise - Per Processor | | | | | | | | | | | | |
| (4 cores) - Purchased Sept 2017-Aug | | | | | | | | | | | | |
| 2018 - Includes Maintenance thru Aug | | | | | | | | | | | | |
| 2019 | Infrastructure | | | | 20,759 | 0 | | | | | | |
| SQL Server Enterprise - Per Processor | | | | | | | | | | | | |
| (4 cores) - Purchased Sept 2018-Aug | | | | | | | | | | | | |
| 2019 - Includes Maintenance thru Aug | | | | | | | | | l | | | |
| 2019 | Infrastructure | | | | 16,985 | 0 | | | | | | |
| SQL Server Enterprise - Maintenance, | | | | | | | | | | | | |
| Per Processor (4 cores) - Sept 2019 | | | | | | | | | | | | |
| and Beyond | Infrastructure | | | | 4,218 | 0 | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | | | | | | |
| (4 cores) - Purchased Sept 2016-Aug | | | | | | | | | | | | |
| 2017 - Includes Maintenance thru Aug | | | | | | | | | | | | |
| 2019 | Infrastructure | | | | 6,398 | 0 | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | | | ļ | | | |
| (4 cores) - Purchased Sept 2017-Aug | | | | | | | | | | | | |
| 2018 - Includes Maintenance thru Aug | | | | | | | | | - | | | |
| 2019 | Infrastructure | | | | 5,414 | 0 | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | | | | | | |
| (4 cores) - Purchased Sept 2018-Aug | | | | | | | | | | | | |
| 2019 - Includes Maintenance thru Aug | | | | | | | | | | | | |
| 2019 | Infrastructure | | | | 4,429 | 0 | | | | | | |
| SQL Server - Standard Maintenance, | | | | | | | | | | | | |
| Per Processor (4 cores) - Sept 2019 | | | | | | | | | | | | |
| and Beyond | Infrastructure | | | | 1,100 | 0 | | | | | | |
| Websphere Basic Per Processor | | | | | | | | | | | | |
| Single/Dual Core - Includes Year 1 | | | | | | | | | | | 1 | |
| Maintenance | Infrastructure | | | | 3,506 | 0 | | | | | | |

Return on Investment Analysis

| | 1 | | | | | | | Affects Proje | | ject | ROI? | |
|--------------------------------------|----------------|-------------------------|------|-------|----------|------------|------------|---------------|----|----------|-----------|-------|
| | Project Cost | Budget Category/Funding | Unit | | Rate per | | Annual | | | | | |
| Cost Description | Category | Source | Desc | Units | Unit | Total Cost | Multiplier | Y1 | Y2 | Y3 | <u>۲4</u> | Y5 Y6 |
| | | | | | | | | | | | | |
| Websphere Basic Per Processor | | | | | | | | | | | | |
| Single/Dual Core - Year 2 and Beyond | Infrastructure | | | | 701 | 0 | | | | | | |
| Websphere ND Per Processor | | | | | | | | | | | | |
| Single/Dual Core - Includes Year 1 | | | | | | | | | | | | |
| Maintenance | Infrastructure | | | | 13,180 | 0 | | | | | | |
| | | | | | | | | | | | | |
| Websphere ND Per Processor | | | | | 0.005 | | | | | | | |
| Single/Dual Core - Year 2 and Beyond | | | | | 2,635 | 0 | | | | i İ | -+ | |
| SSL Certificate | Infrastructure | | | | 845 | 0 | | | | <u> </u> | | |
| Internet Access | Infrastructure | | | | 180 | 0 | | | | <u> </u> | -+ | |
| Imperva Web Application Firewall | | | | | | | | | | | | |
| (External Web Applications Only) | Infrastructure | | ANN | | 500 | 0 | | | | ⊢ ↓ | \perp | |
| App Code Directories on Consolidated | | | | | | | | | | | | |
| IIS Server (Virtual) | Infrastructure | | ANN | | 415 | 0 | | | | | | |
| Database (5 GB) on Consolidated SQL | | | | | | | | | | | | |
| Instance Server | Infrastructure | | ANN | | 930 | 0 | | | | | | |
| Database Instance (125 GB DB) on | | | | | | | | | | | | |
| Consolidated SQL Server | Infrastructure | | ANN | | 2,395 | 0 | | | | | | |
| Database SQL Maint Server | Infrastructure | | ANN | | 834 | 0 | | | | | | |
| Database SQL Server Physical | Infrastructure | | ANN | | 19,158 | 0 | | | | | | |
| DB Maintenance (Annual Cycle \$610) | Infrastructure | | ANN | | 610 | 0 | | | | | | |
| DB Maintenance (Semi-Annual Cycle | | | | | | | | | | | | |
| \$1220) | Infrastructure | | ANN | | 1,220 | 0 | | | | | | |
| DB Maintenance (Semi-Annual Cycle | | | | | | | | | | | | |
| \$2440) | Infrastructure | | ANN | | 2,440 | 0 | | | | | | |
| Dedicated Virtual Server | Infrastructure | | ANN | | 4,150 | 0 | | | | | | |
| DB Instance Setup | Infrastructure | | | | 976 | 0 | | | | | | |
| DBA MS SQL Database Creation on | | | | | | | | | | | | |
| Existing Instance | Infrastructure | | | | 366 | 0 | | | | | | |
| Extra Small - 2 Core 8GB RAM, 500GB | | | | | | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | | | | | | |
| \$601 On Premise Physical Server = | | | | | | | | | | | | |
| N/A | Infrastructure | | ANN | | | 0 | | | | | | |

Return on Investment Analysis

| | | | | | | | | Affects Project | | ROI? | ٦ | | |
|--------------------------------------|----------------|-------------------------|------|-------|----------|------------|------------|-----------------|----|------|--------|---------|---|
| | Project Cost | Budget Category/Funding | Unit | | Rate per | | Annual | | | | | | |
| Cost Description | Category | Source | Desc | Units | Unit | Total Cost | Multiplier | Y1 | Y2 | Y3 | Y4 ` | Y5 Y6 | 3 |
| Small - 4 Core 16GB RAM, 500GB | | | | | | | | | | | | | ٦ |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | | | | | | | |
| \$951 On Premise Physical Server = | | | | | | | | | | | | | |
| \$9,288 | Infrastructure | | ANN | | | 0 | | | | | | | |
| Medium - 8 Core 32GB RAM, 500GB | | | | | | | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | | | | | Ì | | |
| \$1,702 On Premise Physical Server = | | | | | | | | | | | | | |
| \$9,751 | Infrastructure | | ANN | | | 0 | | | | | | | |
| Large - 16 Core 64GB RAM, 500GB | | | | | | | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | | | | | | | |
| \$3,167 On Premise Physical Server = | | | | | | | | | | | | | |
| \$10,446 | Infrastructure | | ANN | | | 0 | | | | | | - | |
| Extra Large - 40 Core 160GB RAM, | | | | | | | | | | | | | |
| 500GB Drive, 10 GB NIC - | | | | | | | | | | | | | |
| Cloud/Virtual = \$7,564 On Premise | | | | | | | | | | | | | |
| Physical Server = \$12,906 | Infrastructure | | ANN | | | 0 | | | | | | | |

Return on Investment Analysis

| | | Potential Cost Extensions | | | | | | |
|--|------------------|---------------------------|-----------|-----------|-----------|-----------|-----------|--|
| | Project Cost | | | | | | | |
| Cost Description | Category | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | |
| IT Hours - New Development | Development Svcs | 130,350.00 | | | | | | |
| IT Hours - System Maintenance | Development Svcs | | 1,650.00 | 1,650.00 | 1,650.00 | 1,650.00 | 1,650.00 | |
| IT Hours - Customer Support | Development Svcs | | 3,300.00 | 3,300.00 | 3,300.00 | 3,300.00 | 3,300.00 | |
| IT Hours - Planned Maintenance | Development Svcs | | | | | | | |
| User Hours - New Development | Development Svcs | | | | | | | |
| User Hours - PTNE/OT | Development Svcs | | | | | | | |
| Contractor Professional Services | Development Svcs | | | | | | | |
| PC System - Acquisition | Hardware | | | | | | | |
| PC System - Maintenance | Hardware | | | | | | | |
| Notebook - Acquisition | Hardware | | | | | | | |
| Notebook - Maintenance | Hardware | | | | | | | |
| Tablet Notebook - Acquisition | Hardware | | | | | | | |
| Tablet Notebook - Maintenance | Hardware | | | | | | | |
| Microfilm & Microfiche Carrier - | | | | | | | | |
| Aquisition | Hardware | 144,200.00 | | | | | | |
| Microfilm & Microfiche Carrier - | | | | | | | | |
| Maintenance | Hardware | 13,998.00 | 13,998.00 | 13,998.00 | 13,998.00 | 13,998.00 | 13,998.00 | |
| PC Maintenance User Owned | Hardware | | | | | | | |
| Printer Maintenance User Owned | Hardware | | | | | | | |
| File Space (100GB) | Hardware | | | | | | | |
| Package Software - Acquisition | Software | | | | | | | |
| Package Software - Maintenance | Software | | | | | | | |
| Business Objects Access | Software | | | | | | | |
| Term Emulation SFTW-Acquisition | Software | | | | | | | |
| Term Emulation SFTW-Maintenance | Software | | | | | | | |
| Server - Acquisition/Upgrade | Infrastructure | | | | | | | |
| Server - Maintenance | Infrastructure | | | | | | | |
| Server Sftwre - Acquisition/Upgrade | Infrastructure | | | | | | | |
| Server Sftwre - Maintenance | Infrastructure | | | | | | | |
| Server Rack Mount | Infrastructure | | | | | | | |
| Oracle Enterprise Per Processor - | | | | | | | | |
| Includes Year 1 Maintenance | Infrastructure | | | | | | | |
| Oracle Enterprise Per Processor - Year | | | | | | | | |
| 2 and Beyond | Infrastructure | | | | | | | |

| | | Potential Cost Extensions | | | | | |
|---------------------------------------|----------------|---------------------------|----|----|----|----|----|
| | Project Cost | | | | | | |
| Cost Description | Category | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
| SQL Server Enterprise - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2016-Aug | | | | | | | |
| 2017 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server Enterprise - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2017-Aug | | | | | | | |
| 2018 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server Enterprise - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2018-Aug | | | | | | | |
| 2019 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server Enterprise - Maintenance, | | | | | | | |
| Per Processor (4 cores) - Sept 2019 | | | | | | | |
| and Beyond | Infrastructure | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2016-Aug | | | | | | | |
| 2017 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2017-Aug | | | | | | | |
| 2018 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server Standard - Per Processor | | | | | | | |
| (4 cores) - Purchased Sept 2018-Aug | | | | | | | |
| 2019 - Includes Maintenance thru Aug | | | | | | | |
| 2019 | Infrastructure | | | | | | |
| SQL Server - Standard Maintenance, | | | | | | | |
| Per Processor (4 cores) - Sept 2019 | | | | | | | |
| and Beyond | Infrastructure | | | | | | |
| Websphere Basic Per Processor | | | | | | | |
| Single/Dual Core - Includes Year 1 | | | | | | | |
| Maintenance | Infrastructure | | | | | | |

Return on Investment Analysis

| | | Potential Cost Extensions | | | | | |
|--------------------------------------|----------------|---------------------------|----|----|----|----|-----------|
| | Project Cost | | | | | | |
| Cost Description | Category | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
| | | | | | | | |
| Websphere Basic Per Processor | | | | | | | |
| Single/Dual Core - Year 2 and Beyond | Infrastructure | | | | | | |
| Websphere ND Per Processor | | | | | | | |
| Single/Dual Core - Includes Year 1 | | | | | | | |
| Maintenance | Infrastructure | | | | | | |
| Websphere ND Per Processor | | | | | | | |
| Single/Dual Core - Year 2 and Beyond | Infrastructure | | | | | | |
| SSL Certificate | Infrastructure | | | | | | |
| Internet Access | Infrastructure | | | | | | |
| Imperva Web Application Firewall | Innastructure | | | | | | |
| (External Web Applications Only) | Infrastructure | | | | | | |
| App Code Directories on Consolidated | Innastructure | | | | | | |
| IIS Server (Virtual) | Infrastructure | | | | | | |
| Database (5 GB) on Consolidated SQL | Innastructure | | | | | | |
| Instance Server | Infrastructure | | | | | | |
| Database Instance (125 GB DB) on | | | | | | | |
| Consolidated SQL Server | Infrastructure | | | | | | |
| Database SQL Maint Server | Infrastructure | | | | | | |
| Database SQL Server Physical | Infrastructure | | | | | | |
| DB Maintenance (Annual Cycle \$610) | Infrastructure | | | | } | 1 | <u> </u> |
| DB Maintenance (Semi-Annual Cycle | | | | | | | |
| \$1220) | Infrastructure | | | | | | |
| DB Maintenance (Semi-Annual Cycle | | | | | | | |
| \$2440) | Infrastructure | | | | | | |
| Dedicated Virtual Server | Infrastructure | | | | 1 | | |
| DB Instance Setup | Infrastructure | | | | | | |
| DBA MS SQL Database Creation on | | | | | | | |
| Existing Instance | Infrastructure | | | | | | |
| Extra Small - 2 Core 8GB RAM, 500GB | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | |
| \$601 On Premise Physical Server = | | | | | | | |
| N/A | Infrastructure | | | | | | |

Return on Investment Analysis

| | | Potential Cost Extensions | | | | | |
|--------------------------------------|--------------------------|---------------------------|----|----|----|----|----|
| Cost Description | Project Cost Category | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
| Small - 4 Core 16GB RAM, 500GB | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | |
| \$951 On Premise Physical Server = | | | | | | | |
| \$9,288 | Infrastructure | | | | | | |
| Medium - 8 Core 32GB RAM, 500GB | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | |
| \$1,702 On Premise Physical Server = | | | | | | | |
| \$9,751 | Infrastructure | | | | | | 1 |
| Large - 16 Core 64GB RAM, 500GB | | | | | | | |
| Drive, 10 GB NIC - Cloud/Virtual = | | | | | | | |
| \$3,167 On Premise Physical Server = | | | | | | | |
| \$10,446 | Infrastructure | | | | | | |
| Extra Large - 40 Core 160GB RAM, | | | | | | | |
| 500GB Drive, 10 GB NIC - | | | | | | | |
| Cloud/Virtual = \$7,564 On Premise | | | | | | | |
| Physical Server = \$12,906 | Infrastructure | | | | | | |

Cost Summary

| Cost Description | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|--|---------|--------|--------|--------|--------|--------|---------|
| Development Services: | | | | | | | |
| IT Hours - New Development | 130,350 | | | | | | 130,350 |
| IT Hours - System Maintenance | | 1,650 | 1,650 | 1,650 | 1,650 | 1,650 | 8,250 |
| IT Hours - Customer Support | | 3,300 | 3,300 | 3,300 | 3,300 | 3,300 | 16,500 |
| IT Hours - Planned Maintenance | | | | | | | |
| User Hours - New Development | | | | | | | |
| User Hours - PTNE/OT | | | | | | | |
| Contractor Professional Services | | | | | | | |
| Development Services Subtotal: | 130,350 | 4,950 | 4,950 | 4,950 | 4,950 | 4,950 | 155,100 |
| Hardware: | , | , | | | | , | , |
| Microfilm & Microfiche Carrier - Aquisition | 144,200 | | | | | | 144,200 |
| Microfilm & Microfiche Carrier - Maintenance | 13,998 | 13,998 | 13,998 | 13,998 | 13,998 | 13,998 | 83,988 |
| | | | | | | | |
| Hardware Subtotal: | 158,198 | 13,998 | 13,998 | 13,998 | 13,998 | 13,998 | 228,188 |
| Software: | | | | | | | |
| Software Subtotal: | | | | | | | |
| Infrastructure: | | | | | | | |
| Infrastructure Subtotal | | | | | | | |
| Training: | | | | | | | |
| Training Subtotal: | | | | | | | |
| Other: | | | | | | | |
| | | | | | | | |

Return on Investment Analysis

Cost Summary

| | Cost Description | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total |
|---|------------------|---------|--------|--------|--------|--------|--------|---------|
| | Other Subtotal: | | | | | | | |
| С | osts Total: | 288,548 | 18,948 | 18,948 | 18,948 | 18,948 | 18,948 | 383,288 |

Assumptions

| Date | Assumption Description |
|-----------|--|
| 11-Mar-20 | This project is being sponsored by two departments. Register of Deeds is the primary sponsor and Treasury is the co-sponsor. |
| 11-Mar-20 | Register of Deeds spends 520 hours per year retrivieving film for multiple areas. |
| | |
| | Micrographics will not store any documents for other departments |
| | The existing chargeback services that ROD has in place for the microfilm machines will continue for the new equipment. |
| 11-Jun-20 | Micrographics will use requesting departments software to share the content. |
| 11-Jun-20 | The hardware will integrate with LaserFiche |
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