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Operations Project Authorization Form

Project Title: Convert [redacted]	**Project Number: CD02381**
Date Prepared: 12/04/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☒ PTF ☐ non-PTF ☐ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/26	**NWS Excludable:** ☒ Yes ☐ No
Total Capital Request: 3,370.9K	**Authorization Type:** Full Funding

1. Executive Summary

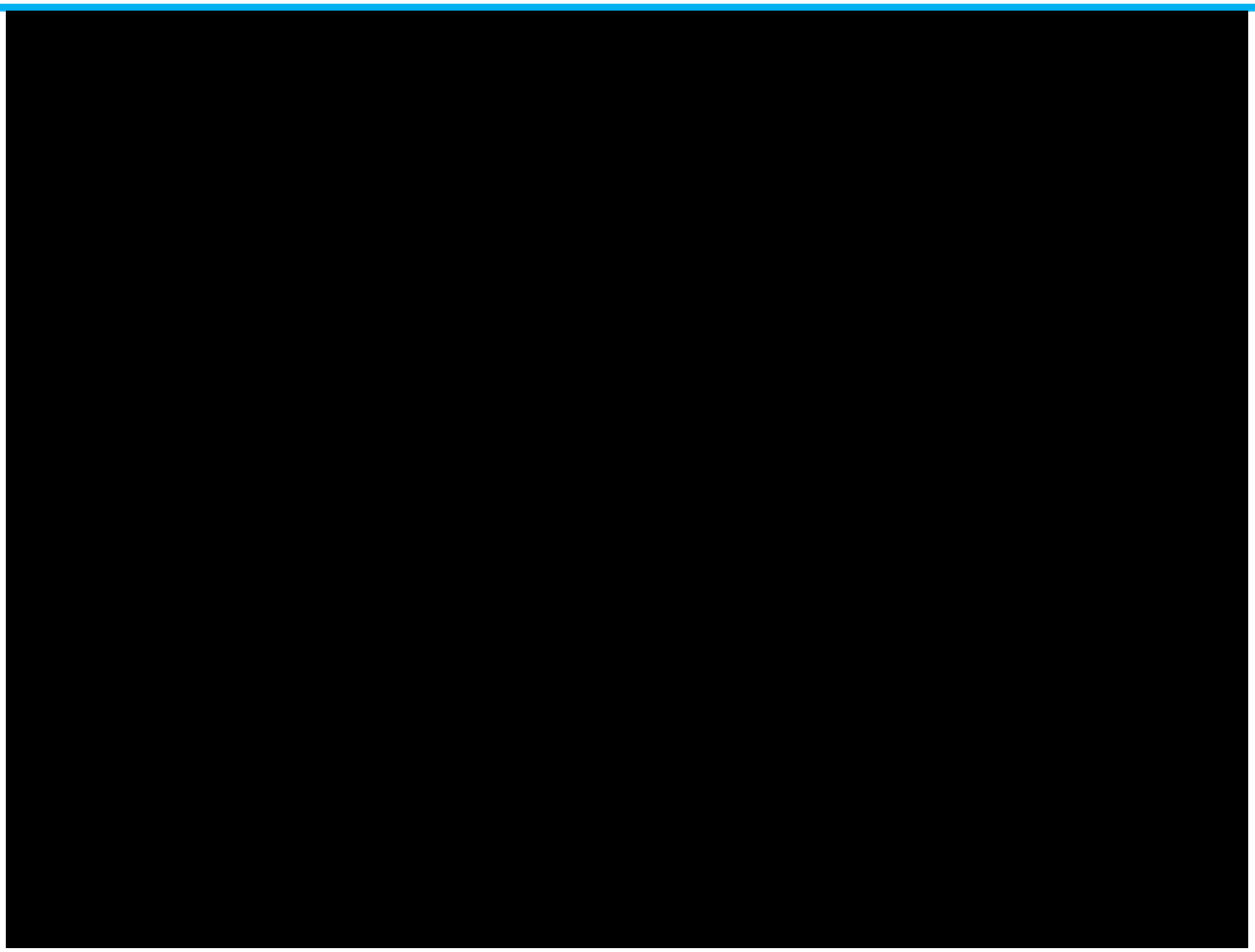
Full Funding Request

CD02381 is being presented to request Full Funding approval for $3,370.9K. Partial Funding approval was given on 5/2/24 for $1,349.6K. The Full Funding estimate is 250% over the Partial Funding approved amount, or $2,021K. The reasons for this overage are as follows:

[redacted]

Project Description

[redacted]



2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2026	Year 2027	Year 2028	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	495.9	0.0	0.0	495.9
Outside Services	156.0	0.0	0.0	156.0
Materials	546.5	0.0	0.0	546.5
Removals	89.9	0.0	0.0	89.9
Risk and Contingency	235.2	0.0	0.0	235.2
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**1,523.5**	**0.0**	**0.0**	**1,523.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	1,847.5	0.0	0.0	1,847.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**1,847.5**	**0.0**	**0.0**	**1,847.5**
Total Gross Capital Costs	**3,370.9**	**0.0**	**0.0**	**3,370.9**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**3,370.9**	**0.0**	**0.0**	**3,370.9**

Explain unique payment provisions, if applicable:

3. Technical Justification

[redacted]

a. Background

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

[redacted]

4. Alternatives Considered

Project Option Comparison

Design Criteria	Option [redacted]		
Normal loads < 80% of UG rating	X	X	X
Normal loads < 90% of OH rating	X	X	X
Install six steel poles in ROW	X		X
Remove all de-energized conductors	X		
Reconfigure double circuit pole lines where both the normal and alternate supply the same group of customers	X	X	
No automatic circuit ties with circuits emanating from the same bus	X	X	
Eliminates Triple-Circuit Pole Line	X		
Authorization Type	Full	Partial	
Capital Cost	$3,370.9K	$1,627.5K	$99.3M

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.

Expense Cost	$105.3K	$52.5K	$3.1M
Total Cost	$3,476.2K	$1,680K	$102.4M
Preferred option	X		

Option Summary



NWS estimate was calculated at $2M per MWh based on the two lowest of three contractor bids received in Connecticut.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	5/9/24
100% Detailed Engineering Completion	11/30/24
Fully Funded	12/4/25
Construction Start	1/2/26
In Service Date	12/31/26

6. Regulatory Decisions

7. Codes and Standards

- DESM 02.301 Automatic Sectionalizing Device Guidelines.
- DESM 05.82 Overhead System Nomenclature
- DESM 06.21 Overhead Design Pole Tops
- DESM 06.521 Getaway Component Ratings
- DTR 12.591 Riser Pole 900 Amp switches
- DTR 12.009 Cable Riser Guide
- DESM 08.10 Overhead Rating
- DESM 08.36 Substation Getaway feeder Cable Ratings.
- DTR 16.609 Lighting Arrester Installation
- DTR 19.371 Capacitors Installation
- DESM 18.10 Substation Planning Criteria

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2026	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2026	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2026	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2025	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2026	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2026	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2026	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.
Technological risks involving integration of new technology	2026	Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.

Wetlands / Environmentally sensitive area	2026	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References	
1. CD01929	[redacted]
2. CD02459	
3. CS00365	
4. CS00636	
5. CS00703	

10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate – see Partial Funding PAF, attached	*YES*
B. Geographic Map – see Partial Funding PAF, attached	*YES*
C. System One-Lines – see Partial Funding PAF, attached	*YES*
D. Load Sheets – see Partial Funding PAF, attached	*YES*

Partial Funding PAF

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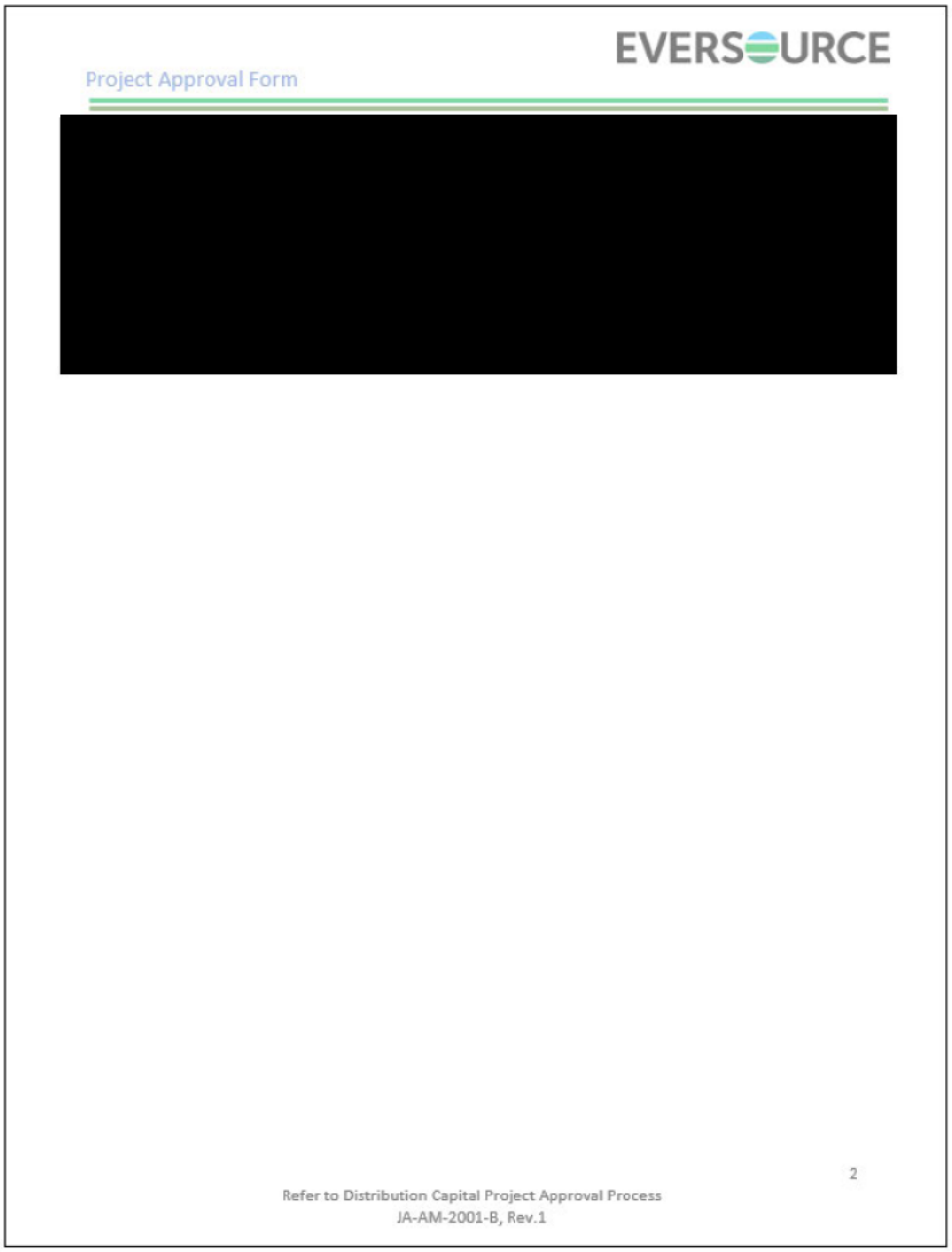
Project Title: Convert [redacted]	**Project Number: CD02381**
Date Prepared: 05/09/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 10/31/2026	
Total Capital Request: $1,349.6K	**Authorization Type:** Partial Funding

1. Executive Summary

[redacted]

1

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1



Project Approval Form

[redacted]

2

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

2. Project Cost Summary

Note: Dollar values are in thousands.

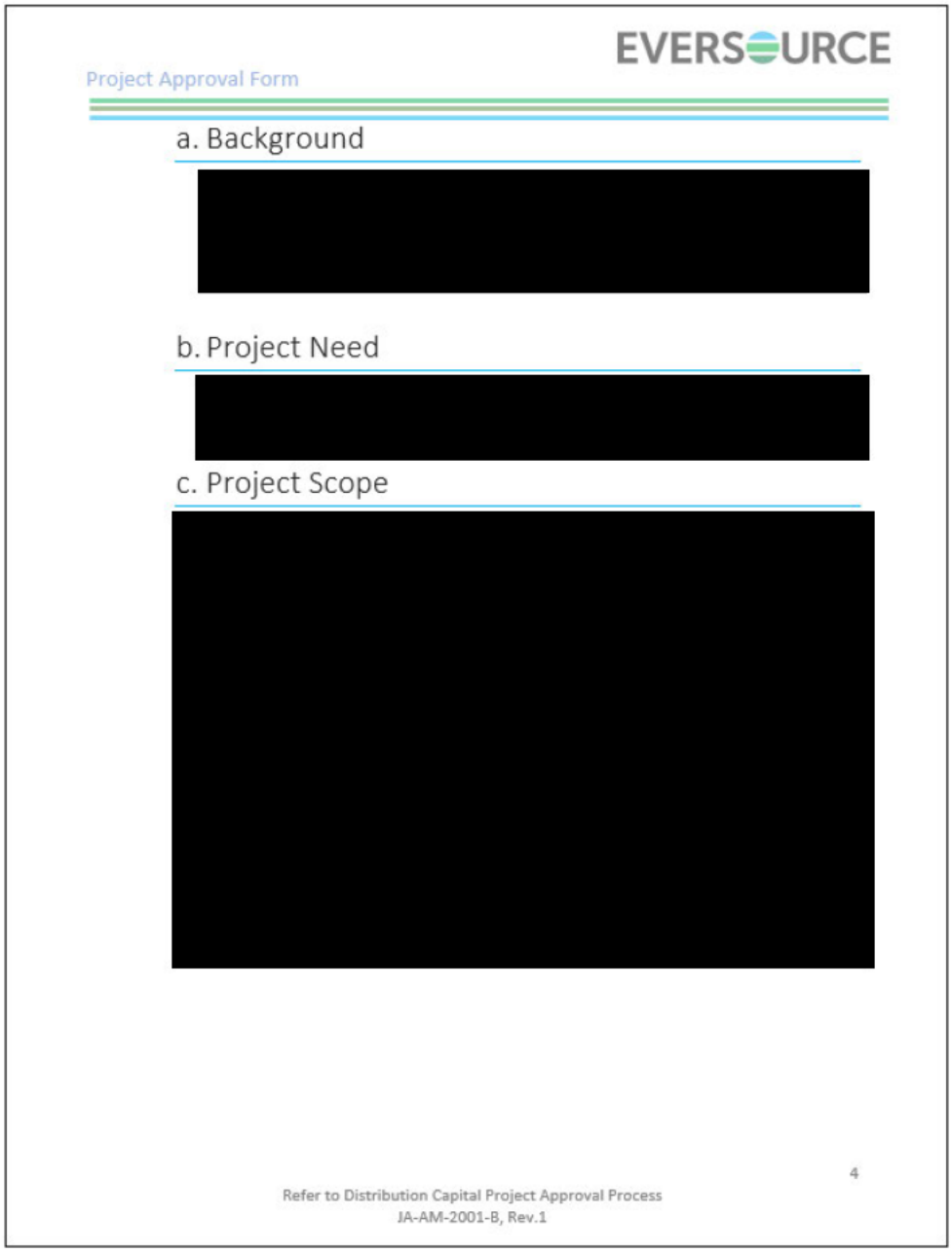
Capital Costs	2026	2027	2028	Total
Internal Labor and Construction Equipment	56.5	0.0	0.0	56.5
Outside Services	459.4	0.0	0.0	459.4
Materials	230.4	0.0	0.0	230.4
Removals	102.0	0.0	0.0	102.0
Other	8.9	0.0	0.0	8.9
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal	**857.2**	**0.0**	**0.0**	**857.2**

Indirect Capital Costs	2026	2027	208	Total
Indirects/Overheads (including benefits)	461.8	0.0	0.0	461.8
Capitalized interest or AFUDC, if any	30.6	0.0	0.0	30.6
Subtotal	**492.4**	**0.0**	**0.0**	**492.4**
Total Capital Costs (Gross)	**1,349.6**	**0.0**	**0.0**	**1,349.6**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net)	**1,349.6**	**0.0**	**0.0**	**1,349.6**

Explain unique payment provisions, if applicable:

3. Technical Justification

[redacted]



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a. Background

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

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Refer to Distribution Capital Project Approval Process
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4. Alternatives Considered

Project Option Comparison

Design Criteria	Option [redacted]	Option	Option
Normal loads < 80% of UG rating	X	X	
Normal loads < 90% of OH rating	X	X	
Install six steel poles in ROW	X		
Remove all de-energized conductors	X		
Reconfigure double circuit pole lines where both the normal and alternate supply the same group of customers	X	X	
No automatic circuit ties with circuits emanating from the same bus	X		
Authorization Type	Partial	Partial	
Capital Cost	$1,349.6K	$651	
Expense Cost	$42.1K	$21k	
Total Cost	$1,391.7K	$672k	
Total Cost / MVA added	$/MVA	$/MVA	
Preferred option	X		

[redacted]

5. Project Schedule

Add any additional milestones that are pertinent to the project.

Milestone/Phase Name	Estimated Date
Partial Approval	5/2/24
100% Detailed Engineering Completion	12/31/24
Fully Funded	4/1/25
Construction Start	1/1/26
In Service Date	10/31/26

6. Regulatory Decisions

7. Codes and Standards

DESM 02.301 Automatic Sectionalizing Device Guidelines.

DESM 05.82 Overhead System Nomenclature

DESM 06.21 Overhead Design Pole Tops

DESM 06.521 Getaway Component Ratings

DTR 12.591 Riser Pole 900 Amp switches

DTR 12.009 Cable Riser Guide

DESM 08.10 Overhead Rating

DESM 08.36 Substation Getaway feeder Cable Ratings.

DTR 16.609 Lighting Arrester Installation

DTR 19.371 Capacitors Installation

DESM 18.10 Substation Planning Criteria

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2025	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2026	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2025	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2026	Low	If storm activity delays work, we may be forced to use external resources.

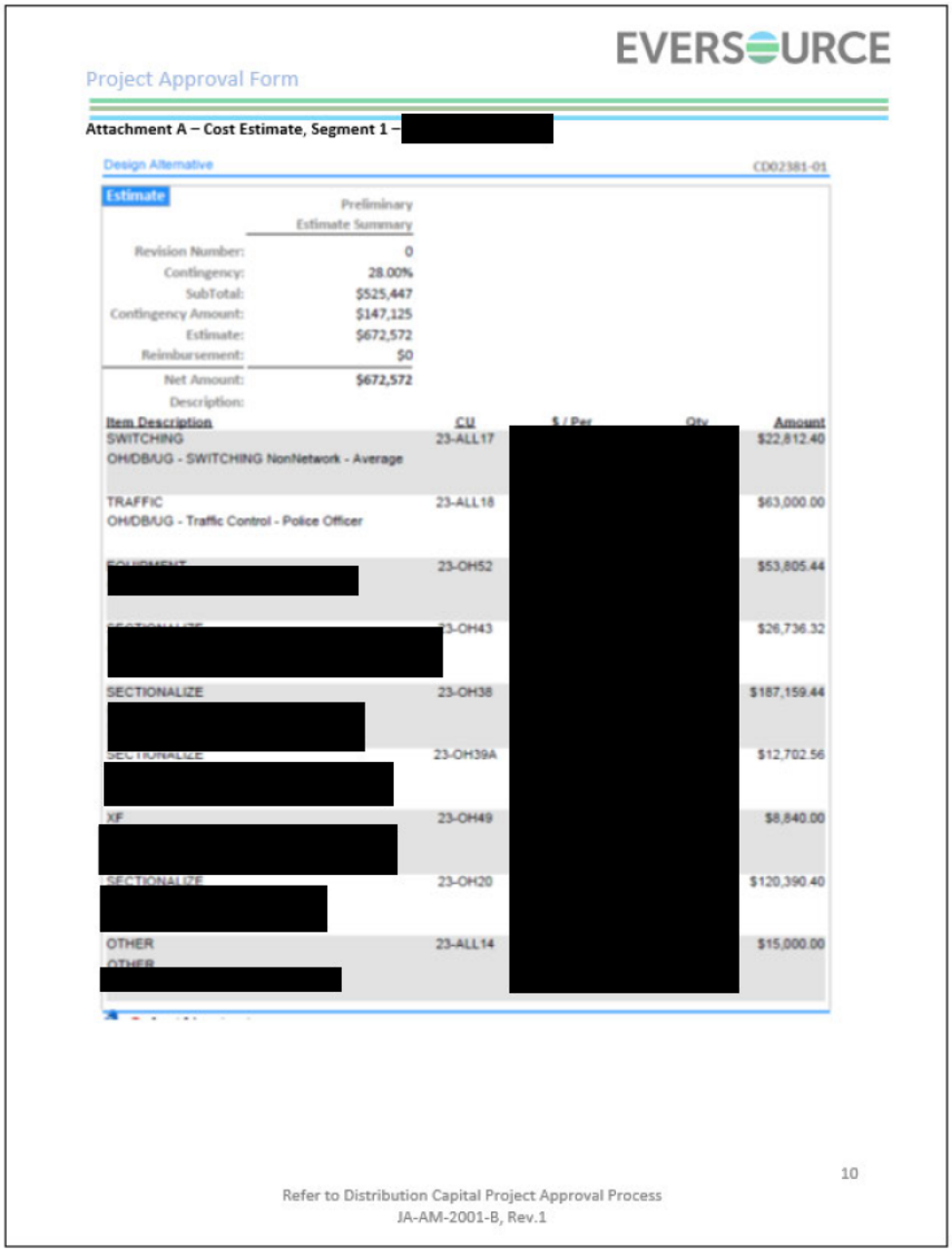
System abnormal configuration	2026	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.
Technological risks involving integration of new technology	2026	Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1. CD01925
2. CD02459
3. CS00365
4. CS00636
5. CS00703

10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Circuit Map	*YES*
C. System One-Lines	*YES*
D. Load Sheets	*YES*



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Attachment A – Cost Estimate, Segment 1 – [redacted]

Design Alternative CD02381-01

Estimate

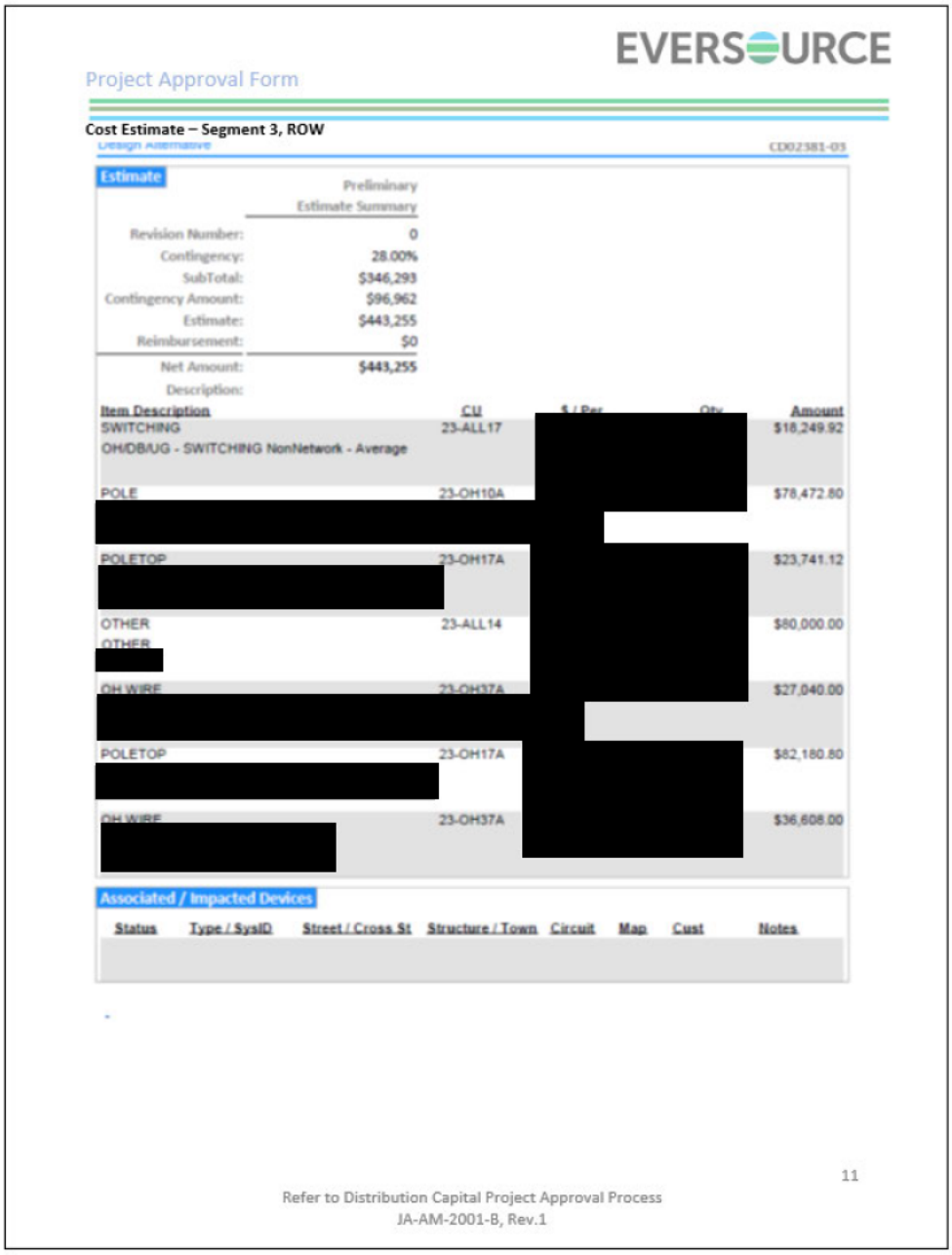
Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$525,447
Contingency Amount:	$147,125
Estimate:	$672,572
Reimbursement:	$0
Net Amount:	$672,572
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$22,812.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$63,000.00
[redacted]	23-OH52			$53,805.44
[redacted]	23-OH43			$26,736.32
SECTIONALIZE [redacted]	23-OH38			$187,159.44
[redacted]	23-OH39A			$12,702.56
XF [redacted]	23-OH49			$8,840.00
[redacted]	23-OH20			$120,390.40
OTHER [redacted]	23-ALL14			$15,000.00

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Cost Estimate – Segment 3, ROW

Design Alternative CD02381-03

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$346,293
Contingency Amount:	$96,962
Estimate:	$443,255
Reimbursement:	$0
Net Amount:	**$443,255**
Description:	

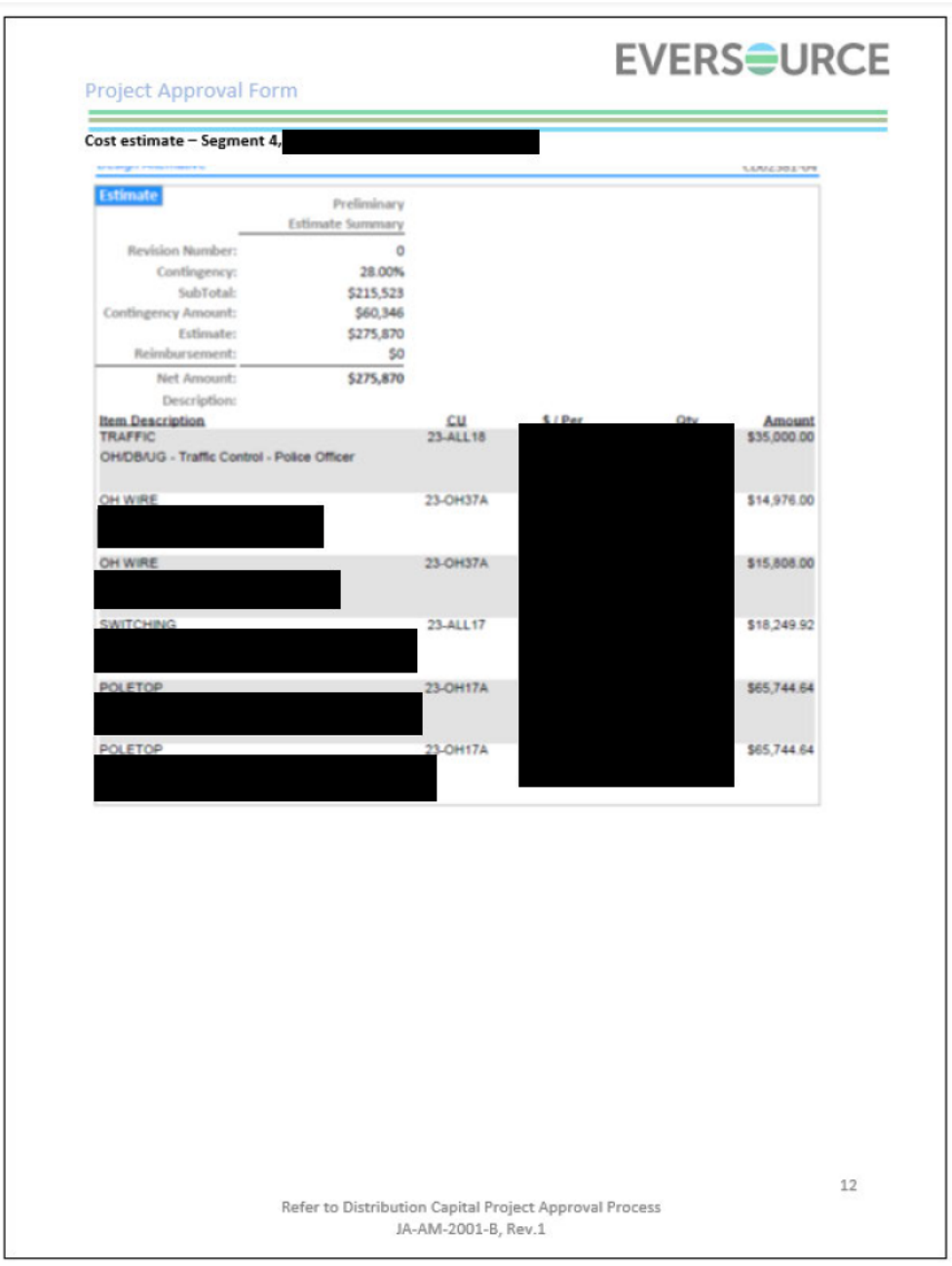
Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$18,249.92
POLE	23-OH10A	[redacted]		$78,472.80
POLETOP	23-OH17A	[redacted]		$23,741.12
OTHER OTHER	23-ALL14	[redacted]		$80,000.00
OH WIRE	23-OH37A	[redacted]		$27,040.00
POLETOP	23-OH17A	[redacted]		$82,180.80
OH WIRE	23-OH37A	[redacted]		$36,608.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

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Cost estimate – Segment 4, [redacted]

Estimate

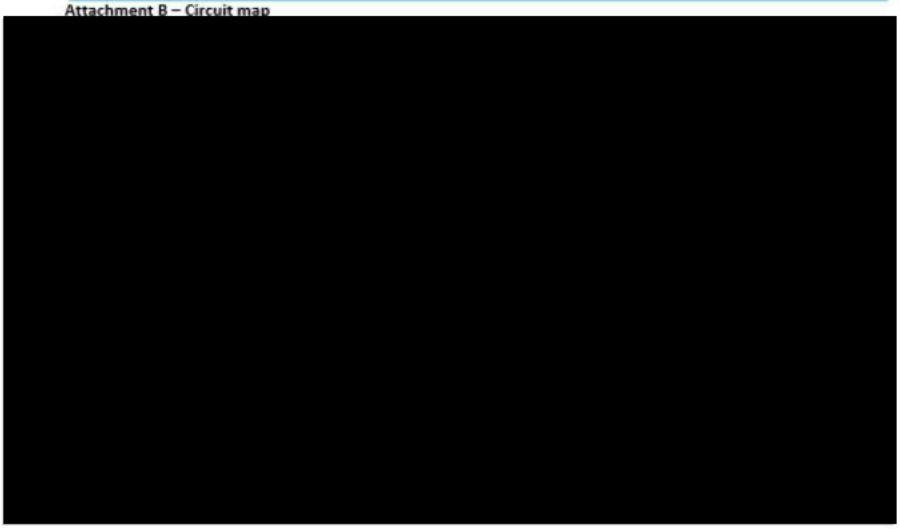
	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$215,523
Contingency Amount:	$60,346
Estimate:	$275,870
Reimbursement:	$0
Net Amount:	$275,870
Description:	

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18	[redacted]		$35,000.00
OH WIRE [redacted]	23-OH37A			$14,976.00
OH WIRE [redacted]	23-OH37A			$15,808.00
SWITCHING [redacted]	23-ALL17			$18,249.92
POLETOP [redacted]	23-OH17A			$65,744.64
POLETOP [redacted]	23-OH17A			$65,744.64

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Attachment B – Circuit map



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Attachment C – One-line, After



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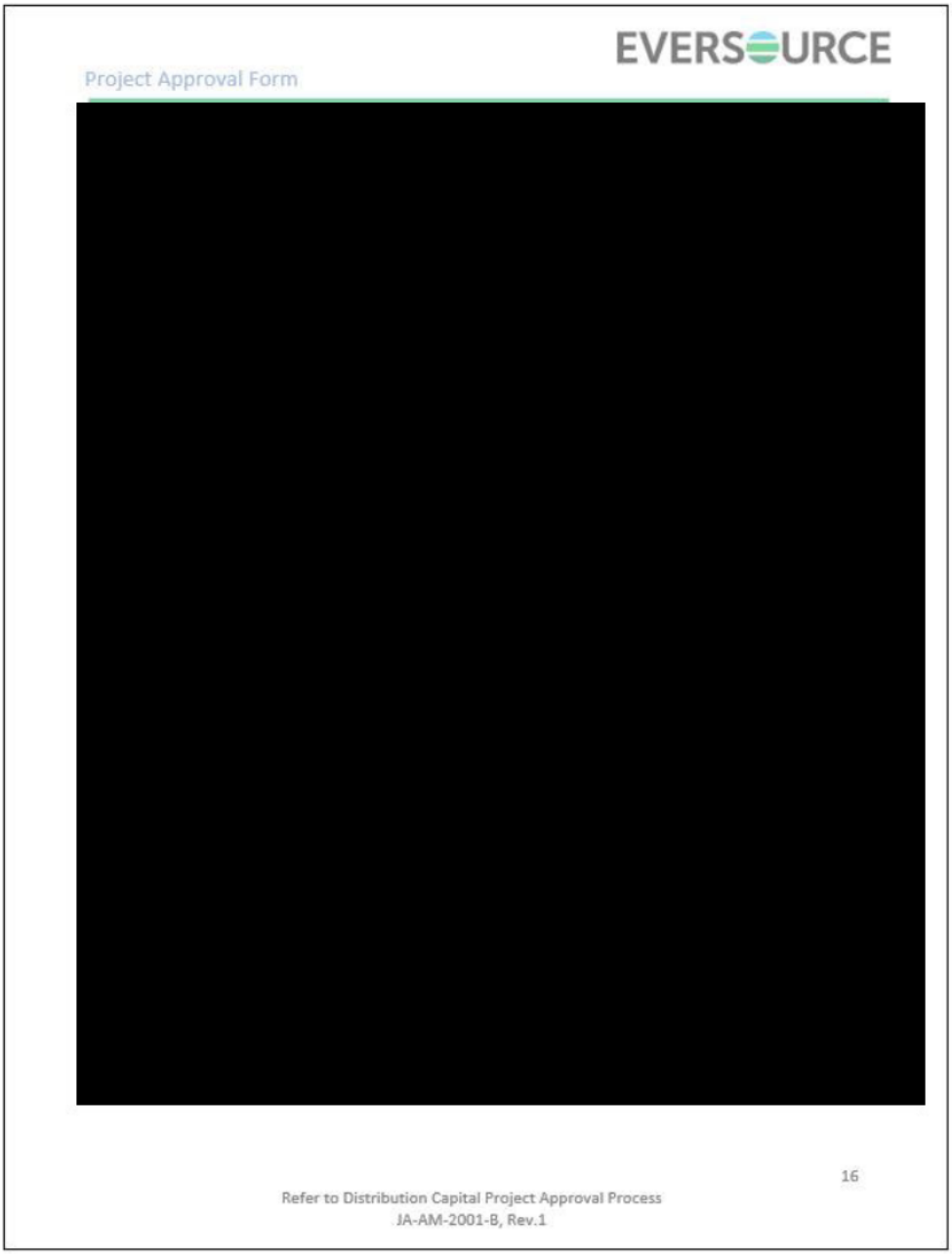
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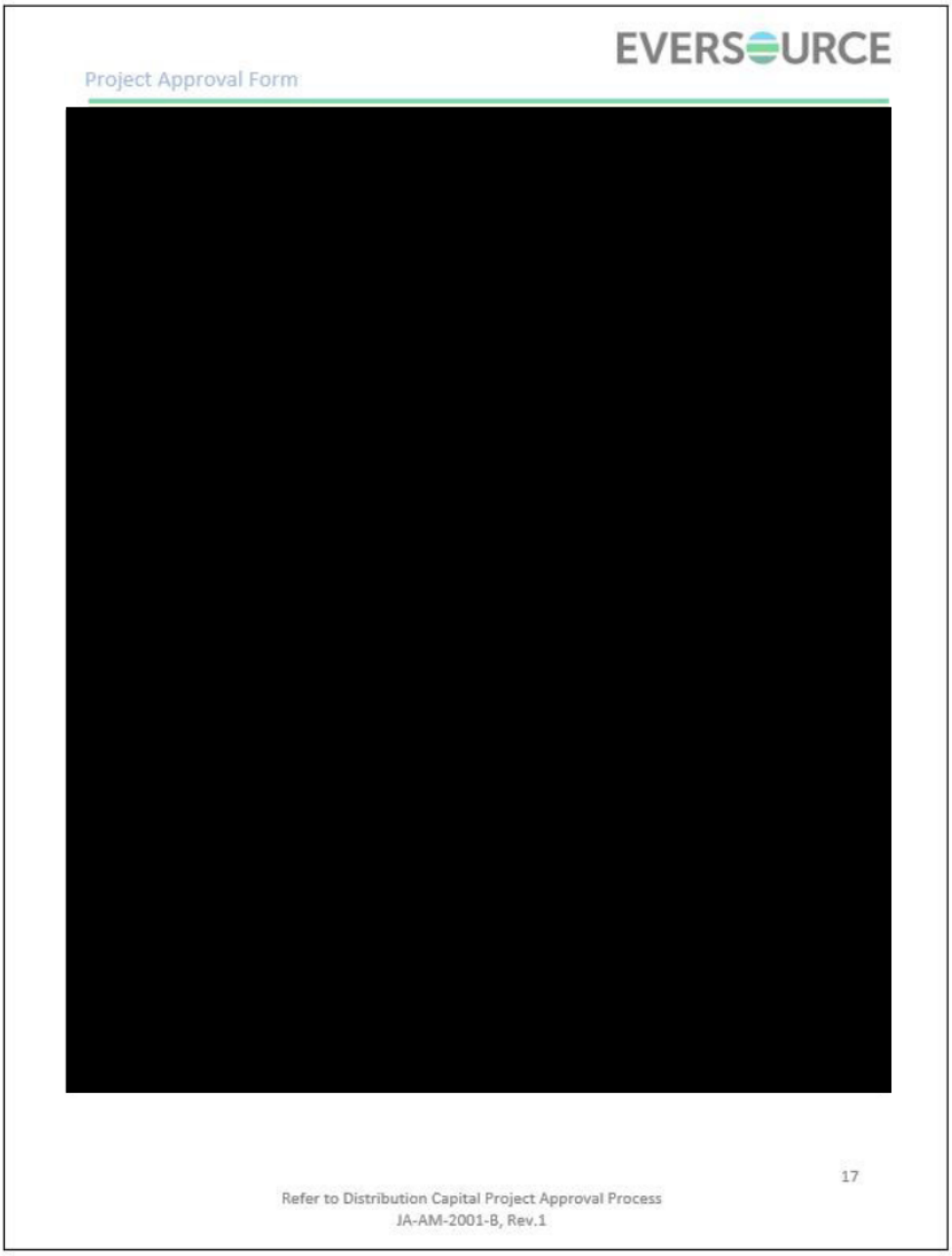
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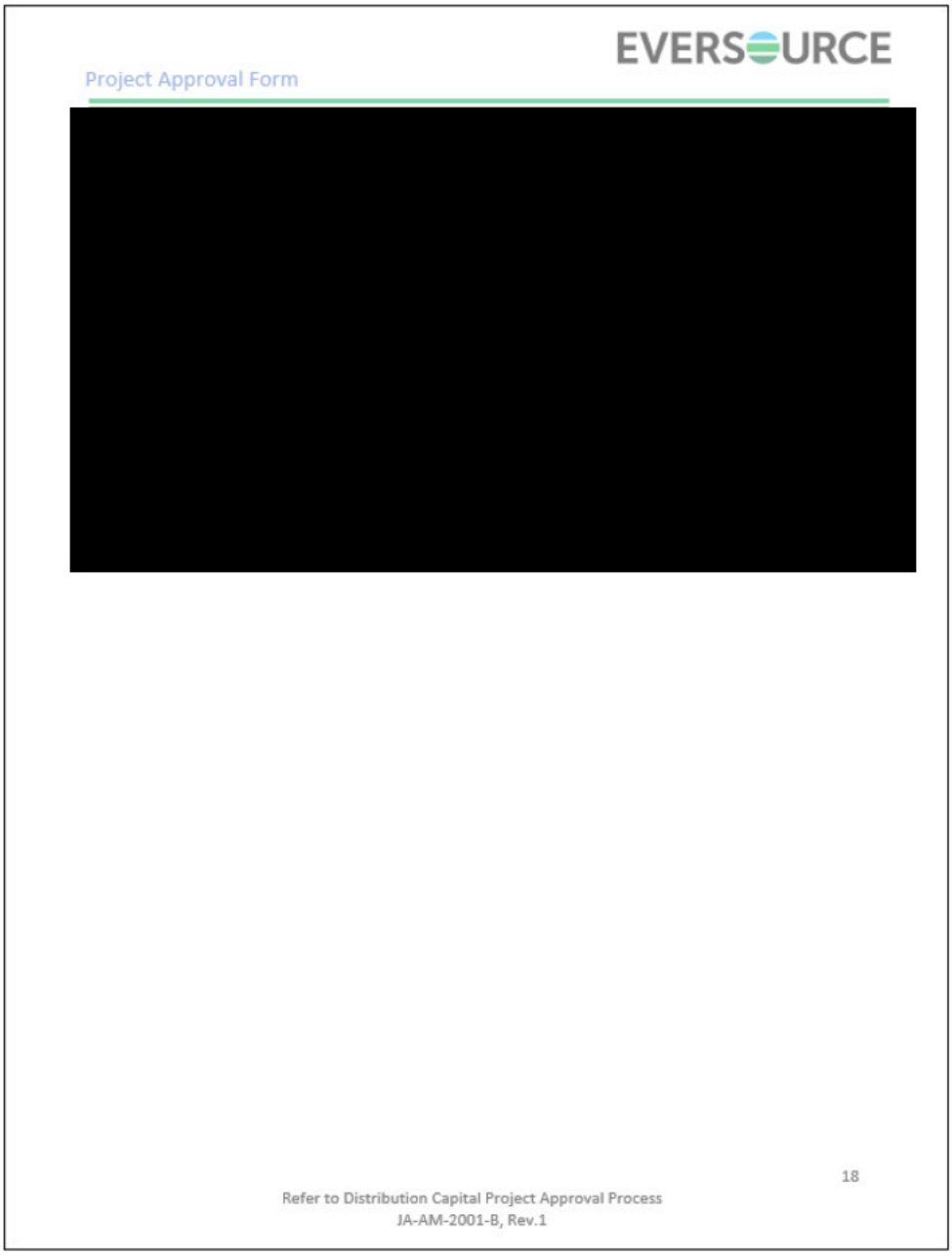
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Attachment C – One-line, Existing




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[redacted]
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Project Approval Form

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