EVERSOURCE

Project Approval Form

Project Title: Driftway Ln Reconductoring & Tree Trimming	Project Number: CD02330
Date Prepared: 03/04/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** No
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: 12/31/2024	
Total Capital Request: $175.5K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$175.5K,** which is 90% of the Partial Funding capital estimate of $194.5K. There is no scope change on the project. The variance between the full funding and partial funding estimate is due to an overestimation of labor and material charges, and this project being in progress.

The Original Project was presented as follows:

> *This project has been created to address aging infrastructure & poor lateral reliability issues on Driftway Ln, Darien, CT.* [redacted]
>
> [redacted].
>
> *The total capital cost of this project will be $194.5K.*

Location Information:
Division: Western
District: Stamford
City: Darien

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	13.2	0.0	0.0	13.2
Outside Services	40.3	0.0	0.0	40.3
Materials	19.4	0.0	0.0	19.4
Removals	18.5	0.0	0.0	18.5
Risk and Contingency	12.2	0.0	0.0	12.2
Other	0.0	0.0	0.0	0.0
Subtotal	**103.6**	**0.0**	**0.0**	**103.6**

Indirect Capital Costs	2024	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	71.9	0.0	0.0	71.9
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**71.9**	**0.0**	**0.0**	**71.9**
Total Capital Costs (Gross)	**175.5**	**0.0**	**0.0**	**175.5**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**175.5**	**0.0**	**0.0**	**175.5**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The 3 or more program at Eversource flags customers who have experienced three or more outages in the past 90 days. The circuit feeding these customers would then be studied to see if reliability improvements could be made.

b. Project Need

[redacted] This area was trimmed in 2021 and is scheduled to be trimmed in 2025.

Outage History:

Town	Feeder	Report Number	Date	Customers Interrupted	Duration(min)	Customer Minutes	Failure Type
[redacted]							

c. Project Scope

To resolve the above issues, this project proposes the following under preferred option 1:

[redacted]

Major Material:

- 2,270' 336 175 Mil Tree Wire (Single Phase)
- 3 Trip Savers

4. Alternatives Considered

Alternative option (segment 4) is to perform enhanced tree trimming on the entire lateral. This would be at a cost of $52,664. However, this option was not chosen because there is a history of customer refusal in some parts of this area. Also, [redacted]. Therefore, option 1 (segments 1,2,3) was chosen as a preferred option.

Project Option Comparison

	Option		
[redacted]			
	Full		
Capital Cost	$175.5K	$49.8K	$0
Expense Cost	$0K	$2.8K	
Total Cost	$175.5K	$52,664	
Cost / CM Saved	$11.12/CM	$3.34/CM	$/CM
Cost / CI Saved	$12,765.55/CI	$3,830.11/CI	$/CI
Preferred option	X		

5. Project Schedule

Milestone/Phase Name	Estimated Date
Preliminary Approval	September 2023
Detail Design Engineering	March 2024
Construction Start	September 2024
Construction Complete	December 2024

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	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	2024	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2024	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.	2023	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.

9. References

References
1. N/A

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

Please see Partial Funding PAF for expanded attachments.

Attachment	Included in Submittal?
A. Cost Summary	*YES*
B. Geographic Map	*YES*
C. Partial Funding PAF	*YES*

EVERSOURCE

Project Approval Form

Project Title: Driftway Ln Reconductoring & Tree Trimming	Project Number: CD02330
Date Prepared: 08/18/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** No
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: 12/31/2024	
Total Capital Request: $194.5K	**Authorization Type:** Partial Funding

1. Executive Summary

This project has been created to address aging infrastructure & poor lateral reliability issues on Driftway Ln, Darien, CT. [redacted]

[redacted]

The total capital cost of this project will be $194.5K.

Location Information:

Division: Western
District: Stamford
City: Darien

2. Project Cost Summary

Capital Costs	2024	2025	2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	10.2	0.0	0.0	10.2
Outside Services	69.0	0.0	0.0	69.0
Materials	27.6	0.0	0.0	27.6
Removals	24.3	0.0	0.0	24.3
Other	0.9	0.0	0.0	0.9
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal	**132.0**	**0.0**	**0.0**	**132.0**
Indirect Capital Costs				
Indirects/Overheads (including benefits)	58.6	0.0	0.0	58.6
Capitalized interest or AFUDC, if any	3.9	0.0	0.0	3.9
Subtotal	**62.4**	**0.0**	**0.0**	**62.4**
Total Capital Costs (Gross)	**194.5**	**0.0**	**0.0**	**194.5**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**194.5**	**0.0**	**0.0**	**194.5**

Note: Dollar values are in thousands.

See attachment A for cost breakdown.

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The 3 or more program at Eversource flags customers who have experienced three or more outages in the past 90 days. The circuit feeding these customers would then be studied to see if reliability improvements could be made.

b. Project Need

[redacted] This area was trimmed in 2021 and is scheduled to be trimmed in 2025.

Outage History:

Town	Feeder	Report Number	Date	Customers Interrupted	Duration(min)	Customer Minutes	Failure Type
[redacted]							

[redacted]

c. Project Scope

To resolve the above issues, this project proposes the following under preferred option 1:

[redacted]

- 2,270’ 336 175 Mil Tree Wire (Single Phase)
- 3 Trip Savers

4. Alternatives Considered

Alternative option (segment 4) is to perform enhanced tree trimming on the entire lateral. This would be at a cost of $52,664. However, this option was not chosen because there is a history of customer refusal in some parts of this area. Also, there are a number of splices on every span of this lateral which may put the cable at a higher risk of future cable failure. Therefore, option 1 (segments 1,2,3) was chosen as a preferred option.

Project Option Comparison

[redacted]			
Estimate Type	Partial	Partial	
Capital Cost	$194.5K	$49.8K	$0
Expense Cost	$11.0K	$2.8K	
Total Cost	$205,520	$52,664	
Cost / CM Saved	$13.02/CM	$3.34/CM	$/CM
Cost / CI Saved	$14,946.91/CI	$3,830.11 /CI	$/CI
Preferred option	X		

5. Project Schedule

Milestone/Phase Name	Estimated Date
Preliminary Approval	September 2023
Detail Design Engineering	March 2024
Construction Start	September 2024
Construction Complete	December 2024

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	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	2024	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2024	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.	2023	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.

9. References

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Summary	*YES*
B. Geographic Map	*YES*
C. Initial Funding PAF	*YES*

Attachment A: Cost Summary:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02330
Driftway Ln Recon. & Tree trimming

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Option 1	1,2,3,4	$205,520	$0	100%	$7,928.82	$13.49	☑
O2	Option 2	4	$52,664	$0	100%	$0.00	$89.72	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Segment 1	$83,308			$3,204.16	$5.67
2	Segment 2	$38,043			$0.00	$0.00
3	Segment 3	$31,505			$0.00	$66.89
4	Tree Trimming	$52,664			$0.00	$89.67

Segment 1: [redacted]

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$67,184
Contingency Amount:	$16,124
Estimate:	$83,308
Reimbursement:	$0
Net Amount:	**$83,308**
Description:	

Item Description	CU	Amount
SECTIONALIZE 1PH Tripsaver	23-OH41A	$8,000.00
OTHER OTHER 30% Contractor cost added	23-ALL14	$15,504.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Reconductoring from P8696 to P753	23-OH25	$43,680.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing		TOKENEKE RD DRIFTWAY LN	8696 DARIEN			20	

Segment 2: Reconductor with 336 TW from P753 to P10424 and replace 30k C/O with 25Trip Saver.

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$30,680
Contingency Amount:	$7,363
Estimate:	$38,043
Reimbursement:	$0
Net Amount:	**$38,043**
Description:	

Item Description	CU	Amount
SECTIONALIZE 1PH Tripsaver	23-OH41A	$8,000.00
OTHER OTHER 30% Contractor cost added	23-ALL14	$7,080.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) From P753 to P10424	23-OH25	$15,600.00

Associated / Impacted Devices

Status	Notes
Existing	
Existing	

Segment 3: [redacted]

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$25,407
Contingency Amount:	$6,098
Estimate:	$31,505
Reimbursement:	$0
Net Amount:	**$31,505**
Description:	

Item Description	CU	[redacted]	Amount
SECTIONALIZE 1PH Tripsaver	23-OH41A		$8,000.00
OTHER OTHER 30% contractor cost added	23-ALL14		$5,863.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) From P753 to P1983	23-OH25		$11,544.00

Segment 4: Tree trimming the entire lateral.

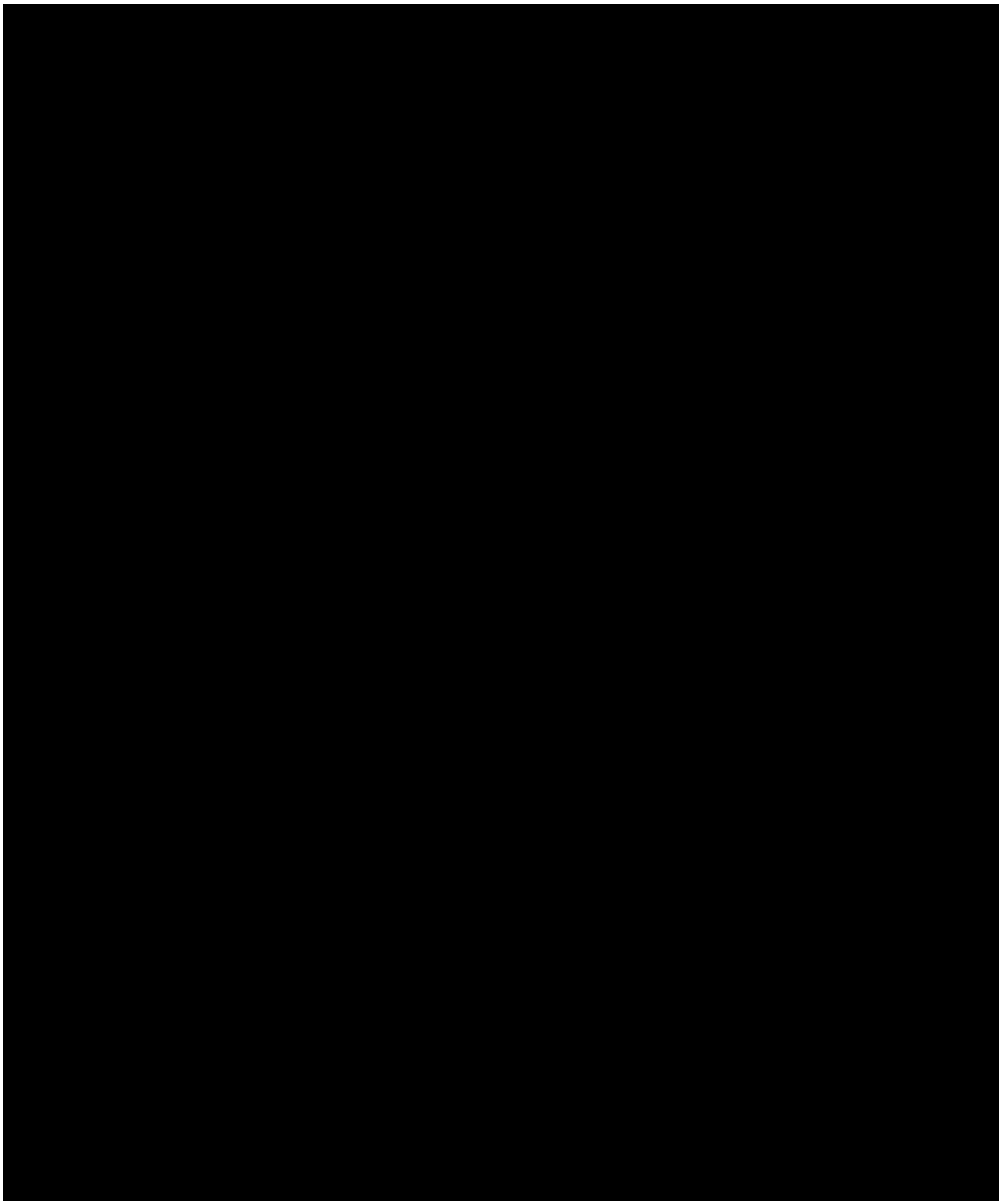
Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$42,471
Contingency Amount:	$10,193
Estimate:	$52,664
Reimbursement:	$0
Net Amount:	**$52,664**
Description:	

Item Description	CU	$ / Per	Qty	Amount
TREE OH - Tree Trimming Including Enhanced Tree Trimming	23-OH61	1.30 / $	32,670	$42,471.00

CD02330_project_needs_statement.pdf

Attachment B Project Maps:



[redacted]



CD02330 Geo Map.pdf

EVERSOURCE

Project Approval Form

Project Title: Driftway Ln Reconductoring and Tree Trimming	Project Number: CD02330
Date Prepared: 08/23/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** Lines - Conductors
Project Manager: [redacted]	**Project Type:** RELIABILITY IMPROVE SPEC PROJ
Project Sponsor: [redacted]	**Capital Investment part of 5-year plan?** No
Required in service date: 12/31/2024	**Emergency Related Request?** No
Total Request ($): 30K	**Authorization Type:** Initial Funding

1. Project Need Statement

[redacted]

2. Project Objectives

[redacted]

Project Initiator: [redacted]

Engineering Approval:_____