EVERSOURCE

Project Approval Form

Project Title: [redacted] DB Cable Replacements	Project Number:CD02595
Date Prepared: 10/30/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** DB CABLE REPLACE-SPECIFIC PROJ
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** No
Project Manager: [redacted]	**Emergency Related Request?** Yes
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: $310.1K	**Authorization Type:** Full Funding

1. Executive Summary

This project is being established to address [redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]

- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Enfield

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	Total
Internal Labor and Construction Equipment	5.7	5.7
Outside Services	140.9	140.9
Materials	15.9	15.9
Removals	25.8	25.8
Other	-0.4	-0.4
Risk and Contingency	0.0	0.0
Subtotal	**187.9**	**187.9**

Indirect Capital Costs	2024	Total
Indirects/Overheads (including benefits)	118.9	118.9
Capitalized interest or AFUDC, if any	3.3	3.3
Subtotal	**122.2**	**122.2**
Total Capital Costs (Gross)	**310.1**	**310.1**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net)	**310.1**	**310.1**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

4 Year Outage History

[redacted]

b. Project Need

[redacted]

c. Project Scope

The scope of this project is as follows:

- [redacted]
- [redacted]
- [redacted]

Major Material:

N/A

4. Alternatives Considered

There were two options considered for the [redacted]:

Option 1 ($317k) – [redacted]

Option 1 is the preferred option since it addresses the immediate need of the DB development and restores the loop to normal.

[redacted]

Option 2 ($791k) – [redacted]

Option 2 replaces the [redacted]

[redacted].

Project Option Comparison

[redacted]		
Authorization Type	Partial	Partial
Total Cost	$317k	$791k
Capital Cost	$310k	$774k
Expense Cost	$7k	$17k
Preferred option	X	

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	November 2024
100% Detailed Engineering Completion	November 2024
Fully Funded	December 2024
Construction Start	October 2024
In Service Date	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.	2025	Medium	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	No customer permissions, siting council permissions or municipal approvals are required as part of this project. Design to minimize customer impact. Project Preplanning and customer/community outreach.

Internal construction resources not available to perform the work.	2025	High	Plan external resources to perform the majority of 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	2025	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	Medium	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	2025	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	No wetlands or environmentally sensitive areas are part of this project.

9. References

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Maps	*YES*
C. DB Map	*YES*
D. Load Summary Sheet	*YES*

Attachment A – Cost Estimate

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02595
[redacted] DB Cable Replacements

Design Alternative CD02595-01

Estimate

Preliminary Estimate Summary	
Revision Number:	0
Contingency:	20.00%
SubTotal:	$189,651
Contingency Amount:	$37,930
Estimate:	$227,581
Reimbursement:	$0
Net Amount:	**$227,581**
Description:	Replace 1000 ft of 4/0 Al cable

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	$4,562.48
DB CABLE DB/UG - 4/0 - 3-1/C (3ph) Al	23-UG113	$43,680.00
POLE DB/UG - Riser - 3ph	23-UG146	$14,032.72
CONDUIT DB - Conduit Installation	23-UG152	$58,240.00
UG CABLE DB - Splice Box	23-UG154	$4,567.68
TRAFFIC OH/DB/UG - Traffic Control - Flagger 15% of subtotal	23-ALL19	$20,000.00
OTHER OTHER 30% Contractor Adder	23-ALL14	$40,000.00

Associated / Impacted Devices

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

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02595

[redacted] DB Cable Replacements

Design Alternative CD02595-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	20.00%
SubTotal:	$25,850
Contingency Amount:	$5,170
Estimate:	$31,021
Reimbursement:	$0
Net Amount:	**$31,021**
Description:	Replace 150 ft of cable with 4/0 Al

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17		$4,562.48
DB CABLE DB/UG - 4/0 - 3-1/C (3ph) Al	23-UG113		$6,552.00
CONDUIT DB - Conduit Installation	23-UG152		$8,736.00
OTHER OTHER 30% Contractor Adder	23-ALL14		$6,000.00

Associated / Impacted Devices

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

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02595

[redacted] DB Cable Replacements

Design Alternative CD02595-03

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	20.00%
SubTotal:	$48,638
Contingency Amount:	$9,728
Estimate:	$58,365
Reimbursement:	$0
Net Amount:	$58,365
Description:	Remove Both PMH-9 Units and splice through and refuse risers on Enfield St and Brainard Rd

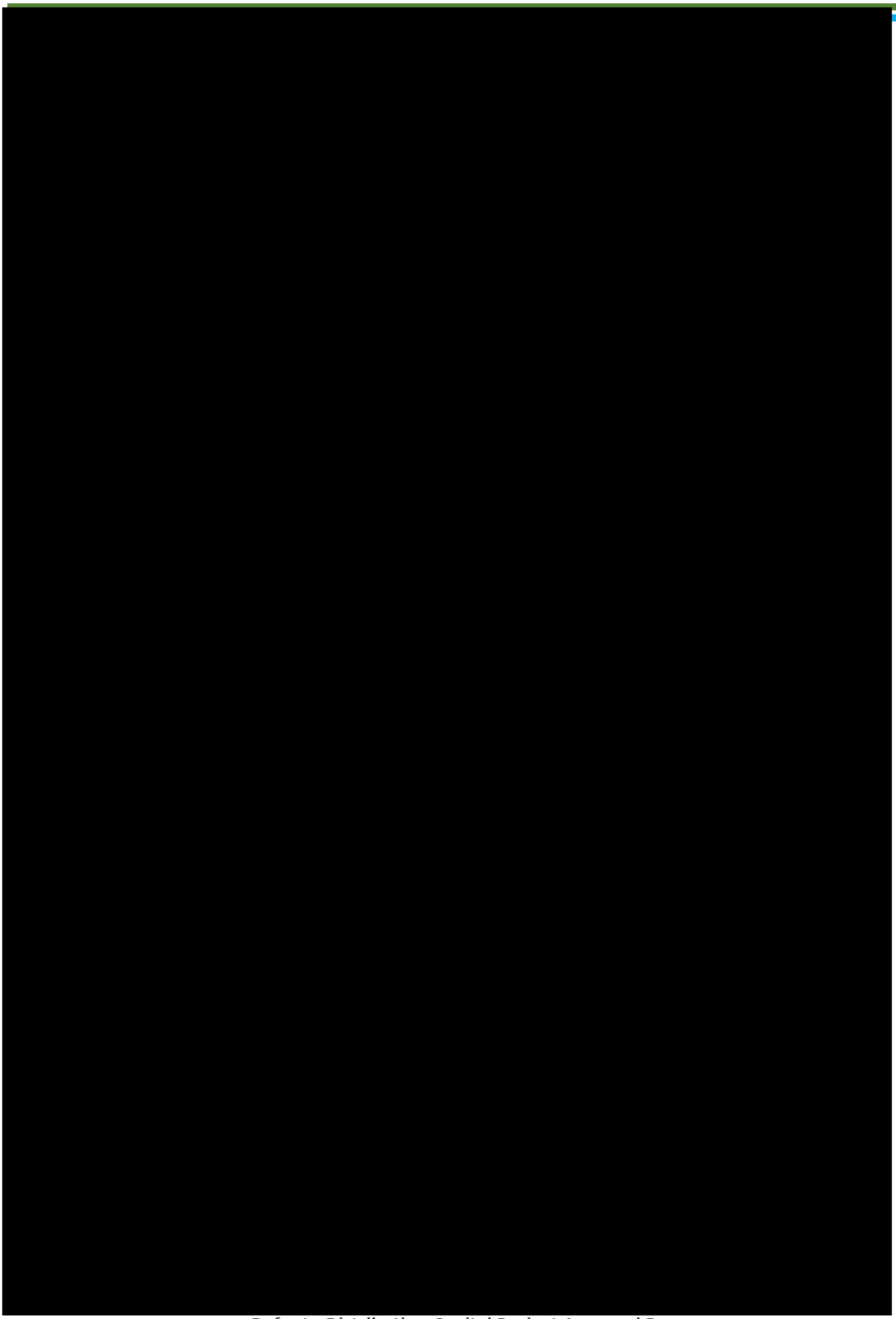
Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17		$4,562.48
OTHER OTHER 30% contractor adder	23-ALL14		$11,200.00
SECTIONALIZE OH - Cutouts or Arresters - 3ph Fuse riser poles on Enfield St and Brainard Rd with 100K's	23-OH20		$6,019.52
OTHER OTHER Manhole/switchgear covers - 5,000 each	23-ALL14		$10,000.00
UG CABLE UG - Transition Splice Splice through manhole	23-UG120		$6,855.68
OTHER OTHER Switchgear removal - 5,000 each	23-ALL14		$10,000.00

Associated / Impacted Devices

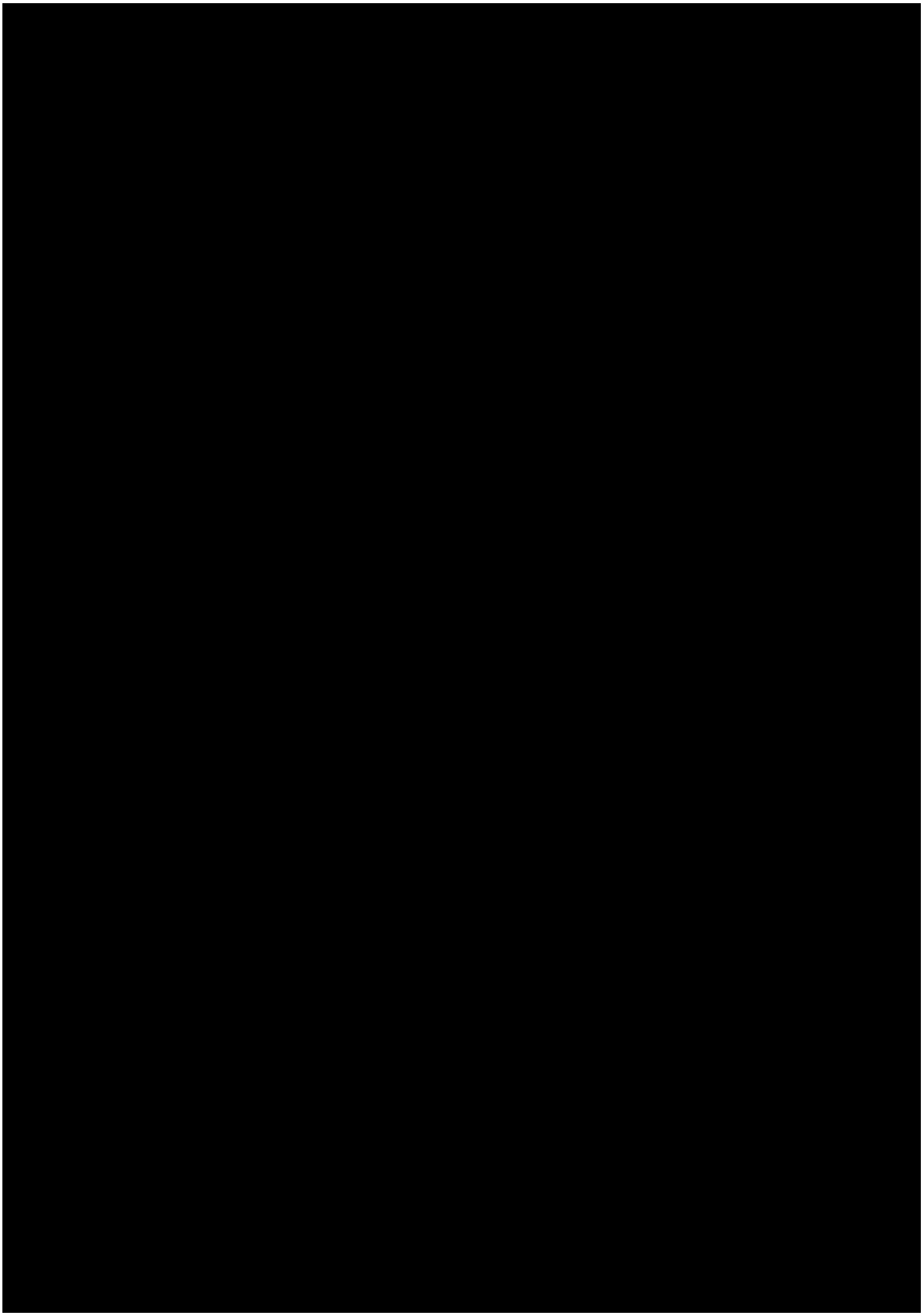
Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

Attachment B – Geographic Maps





Attachment C – DB Map



Attachment D – Load Summary Sheet

