EVERSOURCE

Project Approval Form

Project Title: CDOT 53-196 Bridge Mods Griswold St & House St Glastonbury	**Project Number: CD02571**
Date Prepared: 09/02/2024	**Company:** Eversource CT
Organization: Electric System Operations	**Project Category:** Line Relocations/Act of Public Authority
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: 03/31/25	
Total Capital Request: $1,318.8K (100% Reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

Connecticut DOT Project 53-196 entails major bridge modifications along Route 2 in Glastonbury, from exit 6 to exit 7. To support this project, the DOT has requested Eversource to relocate electrical facilities at the bridge intersections of Route 2 with Griswold St and House St.
Project CD02571 involves moving cables at these intersections to an underground configuration and is divided into two segments:

[redacted]

This project is fully reimbursable by the Connecticut DOT and these relocations are necessary to complete the bridge modifications as part of Connecticut DOT's Project 53-196.

Eastern Region
East Hampton AWC
Town of Glastonbury

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Year 2026	Year 2027	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	143.8	0.0	0.0	143.8
Outside Services	213.0	0.0	0.0	213.0
Materials	207.1	0.0	0.0	207.1
Removals	53.9	0.0	0.0	53.9
Risk and Contingency	92.0	0.0	0.0	92.0
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**709.9**	**0.0**	**0.0**	**709.9**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	609.0	0.0	0.0	609.0
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**609.0**	**0.0**	**0.0**	**609.0**
Total Capital Costs (Gross)	**1,318.8**	**0.0**	**0.0**	**1,318.8**
Less Total Customer Contribution	**1,318.8**	**0.0**	**0.0**	**1,318.8**
Project Costs (Net of Reimbursement)	**0.0**	**0.0**	**0.0**	**0.0**

3. Technical Justification

Project Need/Justification, and Project Scope

a. Project Need

CTDOT Project 53-196 entails bridge alterations along Route 2. As part of the project, the State DOT has requested Eversource to relocate specific infrastructure to support construction efforts. The project covers Route 2 eastbound in the town of Glastonbury, stretching from Mile Points 4.6 to 5.4 (Exit 6 to Exit 8). Additionally, the plan includes lane reconfigurations on Route 3 at Exits 6 and 7.

b. Project Scope

The scope of Project CD02571 [redacted] The work is divided into two parts:

Segment 01 - Griswold St. Bridge No. 384: [redacted]

Segment 02 - House St. Bridge No. 386: [redacted]

Major Material:

- 1450’ feet 1000 KCMIL Cu
- 300’ feet of 1/0 TPX
- (4) OH Riser Poles
- (4) Manholes
- 920’ – (6) 6” conduits

4. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	October 2024
100% Detailed Engineering Completion	November 2024
Fully Funded	December 2024
Construction Start	Jan 2025
In Service Date	March 2025

5. Regulatory Decisions

N/A

6. Codes and Standards

Standards that will be followed:

- **DTR 42.061- Tagging of primary cables.**
- **DTR 51.102- Cable layout of conduit.**
- **DSEM 07.012 - Spare Conduits**
- **DSEM 07.042- DB system Design Philosophy**
- **DSEM 07.161- Cable Riser Guide DSEM 07.222 UG/DB Design Selections**
- **DSEM 07.364- UG/DB Design Three Phase Commercial**
- **DSEM 08.31- 1 Insulated Al Cable Ratings**

7. 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	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	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	Medium	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	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	High	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	Use of mats and specialty equipment, only work during certain times of the year.

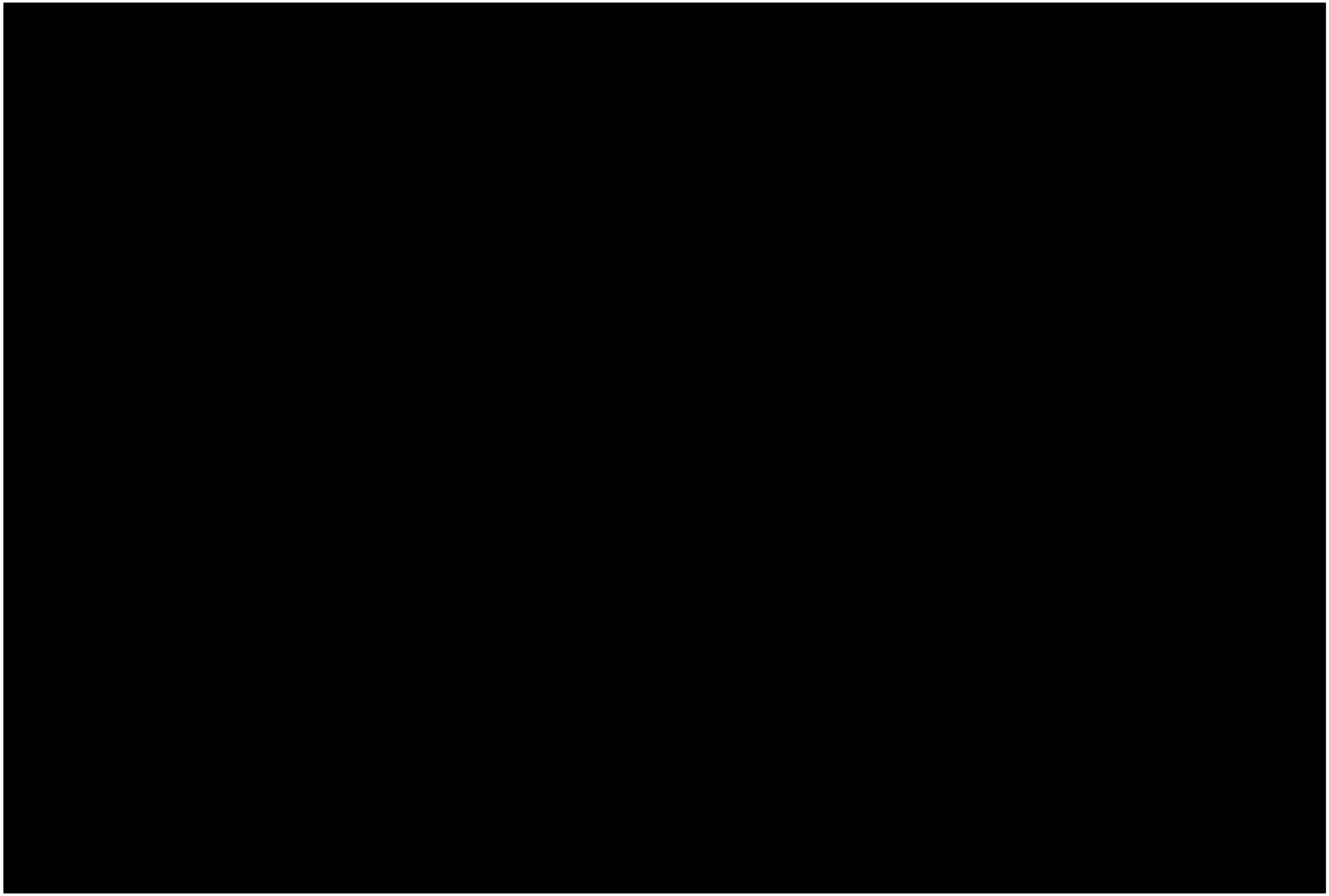
8. References

References
1. CDOT PROJECT 0053-0196

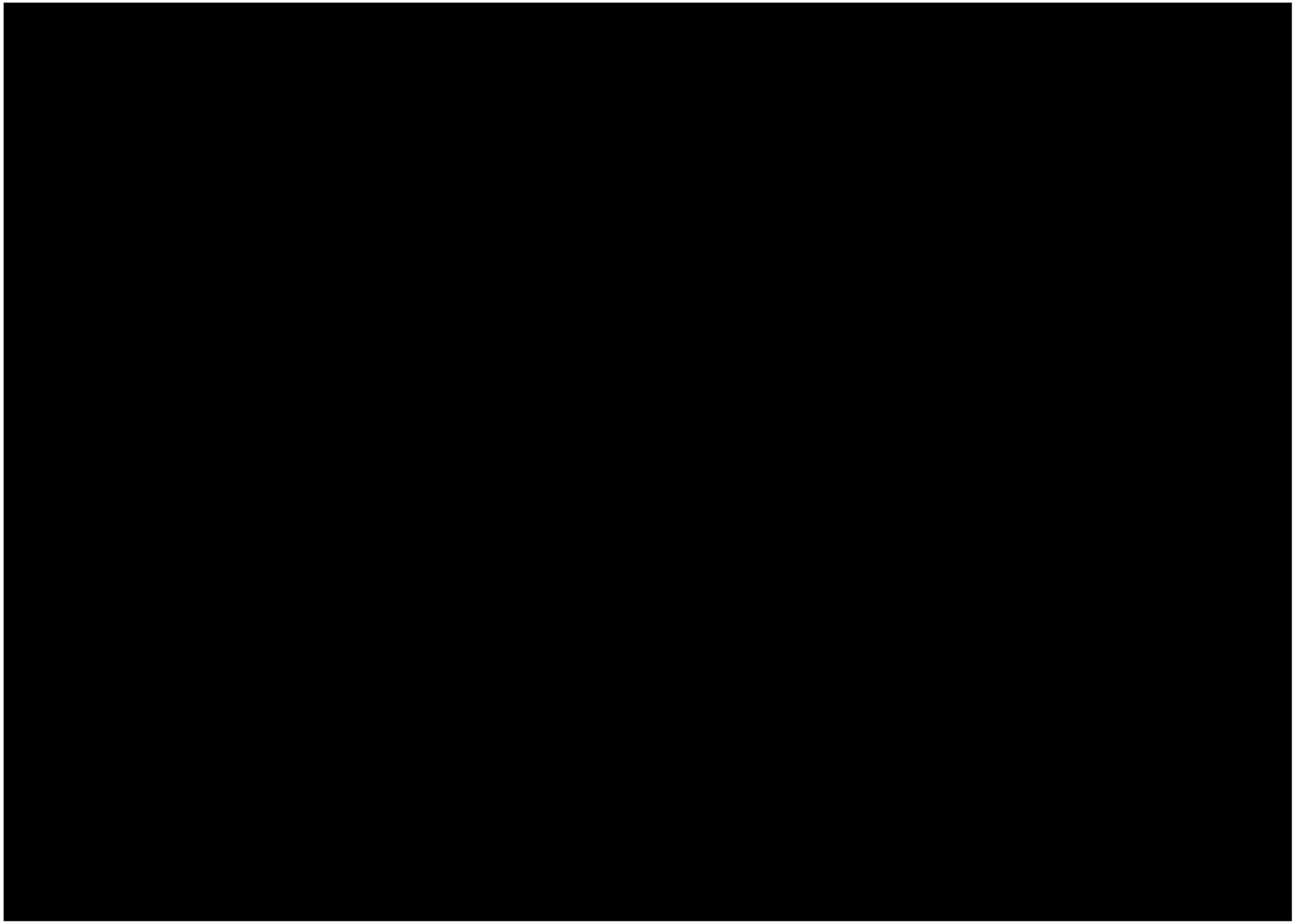
9. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Griswold St, Glastonbury, One-Line	*YES*
B. House St, Glastonbury, One-Line	*YES*
C. Griswold St, Geographic Map	*YES*
D. House St, Geographic Map	*YES*
E. Cost Estimate	*YES*

Attachment "A"



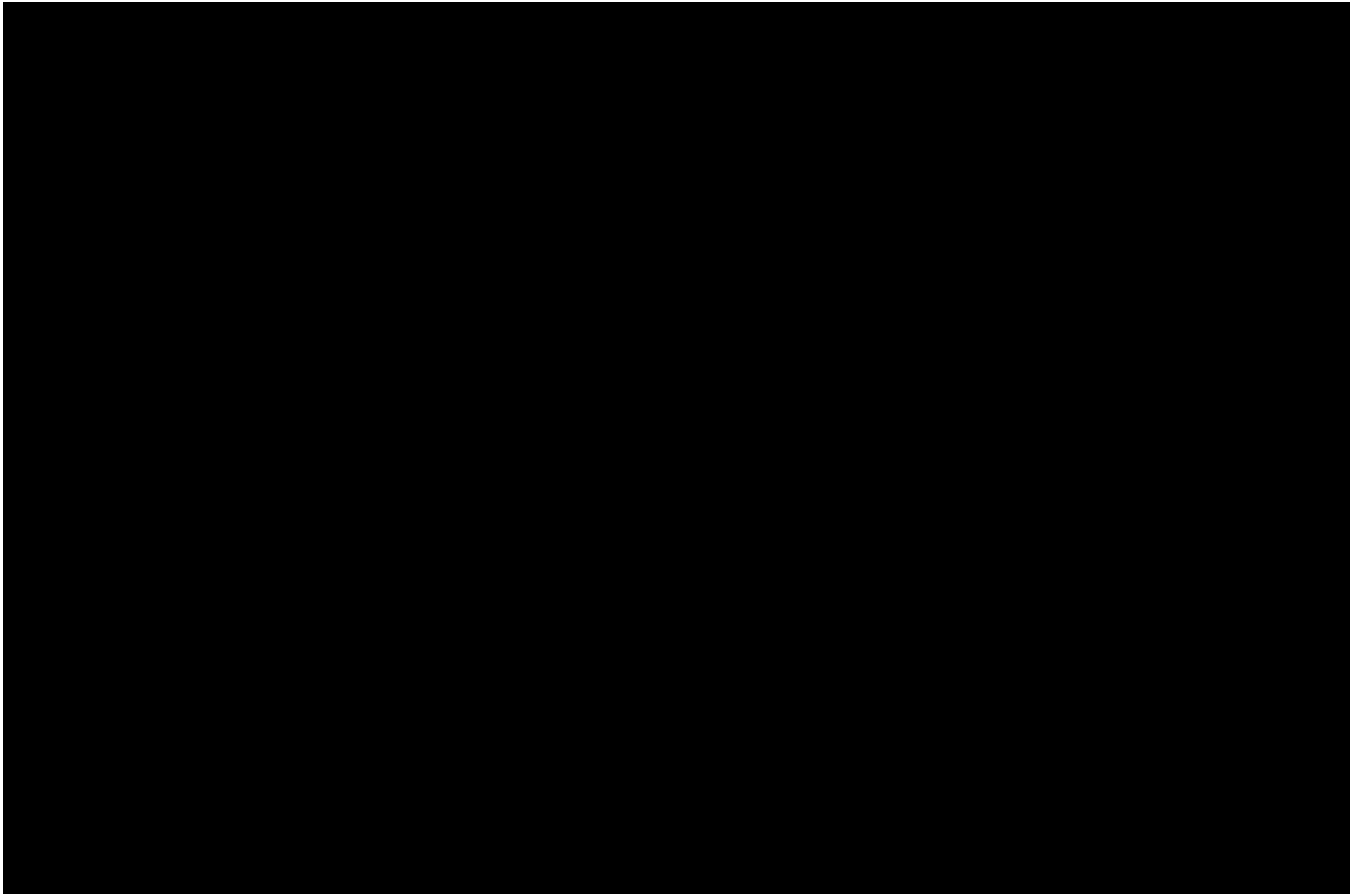
Attachment "B"



Attachment "C" Map Griswold St



ttachment “D” Map House St:



Attachment "E"

Unit Code	Unit Name	Unit Description	UOM	Cost	Quantity	Total	Note
23-ALL17	OH/DB/UG - SWITCHING NonNetwork - Average	Labor per switching order	EA	[redacted]		$9,124.96	
23-ALL18	OH/DB/UG - Traffic Control - Police Officer	$1000 / day / officer, Urban area, Main/State roads, 2 needed for reconductoring, multiple crews	$			$150,000.00	
23-OH14	OH - POLE - 3ph (Eversource custodian)	Install and shift any 3ph pole Eversource installs pole	LOC			$24,315.20	
23-OH37A	OH - Remove circuit wire (3 phase)	Labor to remove wire	FT			$4,576.00	
23-OH43	OH-Vertical Disconnect Switches-600/900 amp 3-1ph	Includes: Pole replacement, Disconnects, 6 stirrups, arresters	LOC			$53,472.64	
23-UG114B	DB/UG - 750/1000 - 3-1/C (3ph) Cu	Labor, material, straight splices, terminators	FT			$180,960.00	
23-UG137	UG-Ductline-up to 12 duct - Traveled Way / Paved	Labor and Material	FT			$374,108.80	
23-UG139	UG - MANHOLE - Precast	Labor and Material	EA			$327,529.28	
23-UG146	DB/UG - Riser - 3ph	Includes pole replacement, labor, arrester, cutout, etc.	EA			$56,130.88	
23-OH30	OH - Reconductor Open Wire Secondary w/ Triplex	Replace Open Wire Secondary with 1/0 Triplex	FT			$3,120.00	

EVERSOURCE

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02571

CDOT 53-196 Bridge Mods Griswold St

Work Classification

Category: Line

Type: RBPR

Type Desc: LINE RELOCATIONS/ACT OF PUBLIC

Work Type:

Ownership / Management

AWC: East Hampton

Statewide: No

Owner: [redacted]

Manager:

Project Information

Status: Draft

SPS #:

AIS Score:

Associated Projects:

Assignment ID:

Patrol Find ID:

Budget Summary - Preferred Option

Replace Cable at Griswold/House Streets

2025

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Griswold St. Bridge# 384 & House St. Bri	Prelim	0	24%	$1,467,339	$1,467,339
				2025 Total:	$1,467,339	$1,467,339
				Total Project:	$1,467,339	$1,467,339

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02571

CDOT 53-196 Bridge Mods Griswold St

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Replace Cable at Griswold/House Streets	1	$1,467,339	$0	100%	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Griswold St. Bridge# 384 & House St. Bri	$1,467,339			$0.00	$0.00
2	Delete	$0			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02571

CDOT 53-196 Bridge Mods Griswold St

Background / Scope

Issue:

Project Description:

Other Considerations:

Revision / ACT Comments:

If we don't do this project, what will happen?

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☐

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted: Approx. Pole Count (NU):

Crit. Cust. Impacted: Approx. Pole Count (Other):

Adjoining Property Owner Consent Required: ☐ Town Hearing Required: ☐

Other Utility Pole Custodian Area: ☐ Easement Required: ☐

State Highway Permit Required: ☐

Relocation / New Service

New Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02571

CDOT 53-196 Bridge Mods Griswold St

Design Alternative CD02571-01

General Information

Segment: 1 - Griswold St. Bridge# 384 & House St. Bri
Status: Prelim Design Submitted
Segment Type: RELOCATION - UG
Town: GLASTONBURY
Budget Year: 2025
Work Type: Other
Trimming Required: ☐
In Service Date: 3/31/2025
Description: Griswold St:

[redacted]

House St:

[redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Project Approval Form

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$1,183,338
Contingency Amount:	$284,001
Estimate:	$1,467,339
Reimbursement:	$0
Net Amount:	**$1,467,339**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$9,124.96
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$150,000.00
POLE OH - POLE - 3ph (Eversource custodian)	23-OH14			$24,315.20
OH WIRE OH - Reconductor Open Wire Secondary w/ Triplex	23-OH30			$3,120.00
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A			$4,576.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph	23-OH43			$53,472.64
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu	23-UG114B			$180,960.00
CONDUIT UG-Ductline-up to 12 duct - Traveled Way / Paved	23-UG137			$374,108.80
ENCLOSURE UG - MANHOLE - Precast	23-UG139			$327,529.28

Project Approval Form

POLE DB/UG - Riser - 3ph	23-UG146	14032.72 / EA	4	$56,130.88

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]					

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 10/9/2024 Years History: 17.78

[redacted]

Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02571

CDOT 53-196 Bridge Mods Griswold St

Design Alternative CD02571-02

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$0
Contingency Amount:	$0
Estimate:	$0
Reimbursement:	$0
Net Amount:	$0
Description:	

Item Description	CU	$ / Per	Qty	Amount

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 10/9/2024 Years History: 17.78

[redacted]

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.0