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Supplement Authorization Form

Project Title: Church St Naugatuck Streetscape	**Project Number: CD02415**
Date Prepared: 03/27/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year 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)
Current Authorized Amount: $627.5K	**Approved In-Service Date:** 12/31/2024
Supplement Request: $1,235.3K	**Estimated In-Service Date:** 04/30/2025
Total Capital Request: $1,862.8K	**Authorization Type: Supplement Request**
	Reason: : Scope Change

1. Project Background

Supplemental funding is being requested for this project. The total capital request is $1,862.8K which is $1,235.3 (197%) more than the current authorized amount of $627.5K.

Project CD02415 was established cover the costs associated with replacement of the vault tops on Church Street, Naugatuck with standard manhole top in conjunction with the Naugatuck Streetscape project being implemented by the town of Naugatuck, which includes improvements to the sanitary sewer collection system and stormwater collection system.

2. Supplement Justification Overview

During reconstruction of Church St by the town's excavating contractor, it was discovered that the existing electrical duct bank between manholes 230 and 231 are extremely shallow, only several inches from the surface. Since the town is in the process of lowering the grade of the road as part of the road reconstruction, the existing duct bank is in conflict with this work. Therefore, the existing duct bank and associated cables will be relocated to a new duct bank along the sidewalk between manholes 230 and 231. The sidewalk location was chosen due to the numerous underground facilities located in the street, making relocation of the duct bank along the impossible.

3. Supplement Justification Detail

The scope of this project, therefore, is being modified to include installation of a new 8 x 5" duct between manholes 230 and 231, a distance of 273'. The cables in the duct bank are one 4/0 AL EPR 15kV 3-1/C loop cable, five service laterals and several street light laterals. Therefore, the additional cost includes installation of the new duct bank & cables, removal of the old cables and cutting away and removal of the old duct bank. This includes $186.5K for outside services, $30K for generators for cutovers of services, $25K for switching time and overtime and an additional $10K for replacement of a service lateral conduit which was identified during the pre-construction pre-check.

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend Year(s)	Prior Authorized Year(s)	Variance (Supplemental Request) Year(s)	New Total Request (Add Prior Authorized and Variance) Year(s)
Internal Labor and Construction Equipment	19.9	3.7	38.6	42.2
Outside Services	282.8	245.6	355.7	601.3
Materials	28.1	6.6	53.0	59.6
Removals	36.8	91.8	-6.6	85.2
Risk and Contingency	0.0	0.0	63.4	63.4
Other	0.3	0.0	0.6	0.6
SUBTOTAL DIRECTS W/ RISKS	**367.8**	**347.7**	**504.7**	**852.4**
Indirect / Overhead (including benefits)	519.2	279.8	730.5	1,010.3
AFUDC	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**519.2**	**279.8**	**730.6**	**1,010.4**
TOTAL CAPITAL REQUEST	**887.0**	**627.5**	**1,235.3**	**1,862.8**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**887.0**	**627.5**	**1,235.3**	**1,862.8**

New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

Line item Category	Year 2024 Actual	Year 2025 Actual	Year 2025 Estimate	Total
Internal Labor and Construction Equipment	16.3	3.6	22.4	42.2
Outside Services	232.2	50.6	318.5	601.3
Materials	23.0	5.0	31.6	59.6
Removals	30.2	6.6	48.5	85.2
Risk and Contingency	0.0	0.0	63.4	63.4
Other	0.3	0.1	0.3	0.6
SUBTOTAL DIRECTS W/ RISKS	**302.0**	**65.8**	**484.7**	**852.4**
Indirect / Overhead (including benefits)	439.3	79.9	491.1	1,010.3
AFUDC	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**439.3**	**79.9**	**491.1**	**1,010.4**
TOTAL CAPITAL REQUEST	**741.3**	**145.7**	**975.8**	**1,862.8**
Reimbursables/Customer Contribution	0.0	0.0	0.0	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**741.3**	**145.7**	**975.8**	**1,862.8**

5. Lessons Learned

Attachment – Scope Change Maps





Attachment – Full Funding PAF

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Project Approval Form

Project Title: Church St Naugatuck Streetscape	Project Number: CD02415
Date Prepared: 08/29/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
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: 12/31/2024	
Total Capital Request: $627.5K	**Authorization Type:** Full Funding

1. Executive Summary

This project is being established to cover the costs associated with replacement of the vault tops on Church Street, Naugatuck with standard manhole top in conjunction with the Naugatuck Streetscape project being implemented by the town of Naugatuck.

The existing grates on the vault tops were identified as an issue and initially relocation of the underground facilities was requested, which would have been a tremendous cost. Since the network transformers are in the process of being removed under a separate project, the scope that was agreed to is to replace the tops of the vaults with standard manhole tops, since the vaults will no longer be used to house transformers. Also, the condition of the tops is in such deteriorated shape that they would have had to addressed at some point anyway (see Attachment D – Images of the Vault Tops).

The work requests have been written and we are requesting Full Funding authorization in the amount of $627.5K

The project has been deemed 0% reimbursable to utilities by the town, citing it as improvements to the sanitary sewer collection system, stormwater collection system, the road and streetscape to accommodate transit-oriented development on Parcel B and the Naugatuck Entertainment Center on Elm Street.

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- Project Location:
  - Division: Western
  - District: Waterbury AWC
  - Town: Naugatuck

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2024	Year 2025	Year 2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	3.7	0.0	0.0	3.7
Outside Services	245.6	0.0	0.0	245.6
Materials	6.6	0.0	0.0	6.6
Removals	34.8	0.0	0.0	34.8
Risk and Contingency	57.0	0.0	0.0	57.0
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**347.7**	**0.0**	**0.0**	**347.7**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	279.8	0.0	0.0	279.8
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**279.8**	**0.0**	**0.0**	**279.8**
Total Gross Capital Costs	**627.5**	**0.0**	**0.0**	**627.5**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**627.5**	**0.0**	**0.0**	**627.5**

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3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The Borough of Naugatuck has established a streetscape project on Church St., Naugatuck, where infrastructure improvements are being implemented. This includes required stormwater replacement, including installing a larger 36" drain down Church Street and drainage capacity improvements on Maple Street. Secondary to the drainage replacement are the pedestrian safety and traffic calming improvements to the street since converting it to a one-way street, including narrowing the road to a single travel lane.

Under a separate project, CD00080, the network transformers inside the existing transformer vaults are being eliminated, with all the load presently fed from these network transformers to instead be fed from pad-mounted transformers via a new conventional underground loop. This project is expected to be completed in the first half of 2024.

b. Project Need

The existing vault grates on Church Street, Naugatuck have been identified as a hinderance to the street/sidewalk realignment as proposed and needs to be mitigated. Also, the existing grates are deteriorating and would need to be addressed anyway. Therefore, the existing network transformer grates will be eliminated.

c. Project Scope

The scope of this project is to replace the existing roof tops of the four network transformer vaults on Church Street, Naugatuck, with standard manhole tops. This can be accomplished since the network transformers presently in these vaults are being eliminated under project CD00080. Since these structures will be used for conductors only going forward, there will be no issue replacing the vault tops with manhole tops.

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4. Alternatives Considered

Due to the nature of this project, there are no reasonable alternatives. Relocation of the existing vaults to eliminate conflict with the streetscape project would have been a tremendous cost due to the replacement of the vaults, duct structures and cables involved. Therefore, this alternative was not even considered as a viable alternative.

5. Project Schedule

Milestone/Phase Name	Estimated Date
SDC Approval	May 2024
100% Detailed Engineering Completion	August 2024
Fully Funded	August 2024
Construction Start	September 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.	2024	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	2024	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2024	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.	2024	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	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	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	2024	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	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1. None

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

Attachment	Included in Submittal?
A. Initial Funding PAF	*YES*
B. Project Map	*YES*
C. Church St., Naugatuck Streetscape Plans	*YES*
D. Images of the Vault Tops	*YES*

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Project Approval Form

Attachment A – Initial Funding PAF

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Project Approval Form

Project Title: Church St Naugatuck Streetscape	Project Number: CD02415
Date Prepared: 02/22/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator [redacted]	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Project Manage [redacted]	**Project Type:** Specific
Project Sponsor [redacted]	**Capital Investment part of 5-year plan?** No
	Emergency Related Request? No
Total Request ($): $30K	**Authorization Type:** Initial Funding

1. Project Need Statement

This project is being established to cover the costs associated with replacement of the vault tops on Church Street, Naugatuck with standard manhole top in conjunction with the Naugatuck Streetscape project being implemented by the town of Naugatuck.

- Project Location:
  - Division: Western
  - District: Waterbury
  - Town: Naugatuck

2. Project Objectives

The objective of this project is to resolve the conflict that exists between the electric underground facilities on Church St., Naugatuck and the proposed street and sidewalk improvements proposed under the streetscape project.

The existing grates on the vault tops were identified as an issue and initially relocation of the underground facilities was requested, which would have been a tremendous cost. Since the network transformers are in the process of being removed under a separate project, the scope that was agreed to is to replace the tops of the vaults with standard manhole tops, since the vaults will no longer be used to house transformers.

The project has been deemed 0% reimbursable to utilities by the town, citing it as improvements to the sanitary sewer collection system, stormwater collection system, road and streetscape to accommodate transit-oriented development on Parcel B, the Naugatuck Entertainment Center on Elm Street.

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Attachment B – Project Map



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Attachment C - Streetscape Plans



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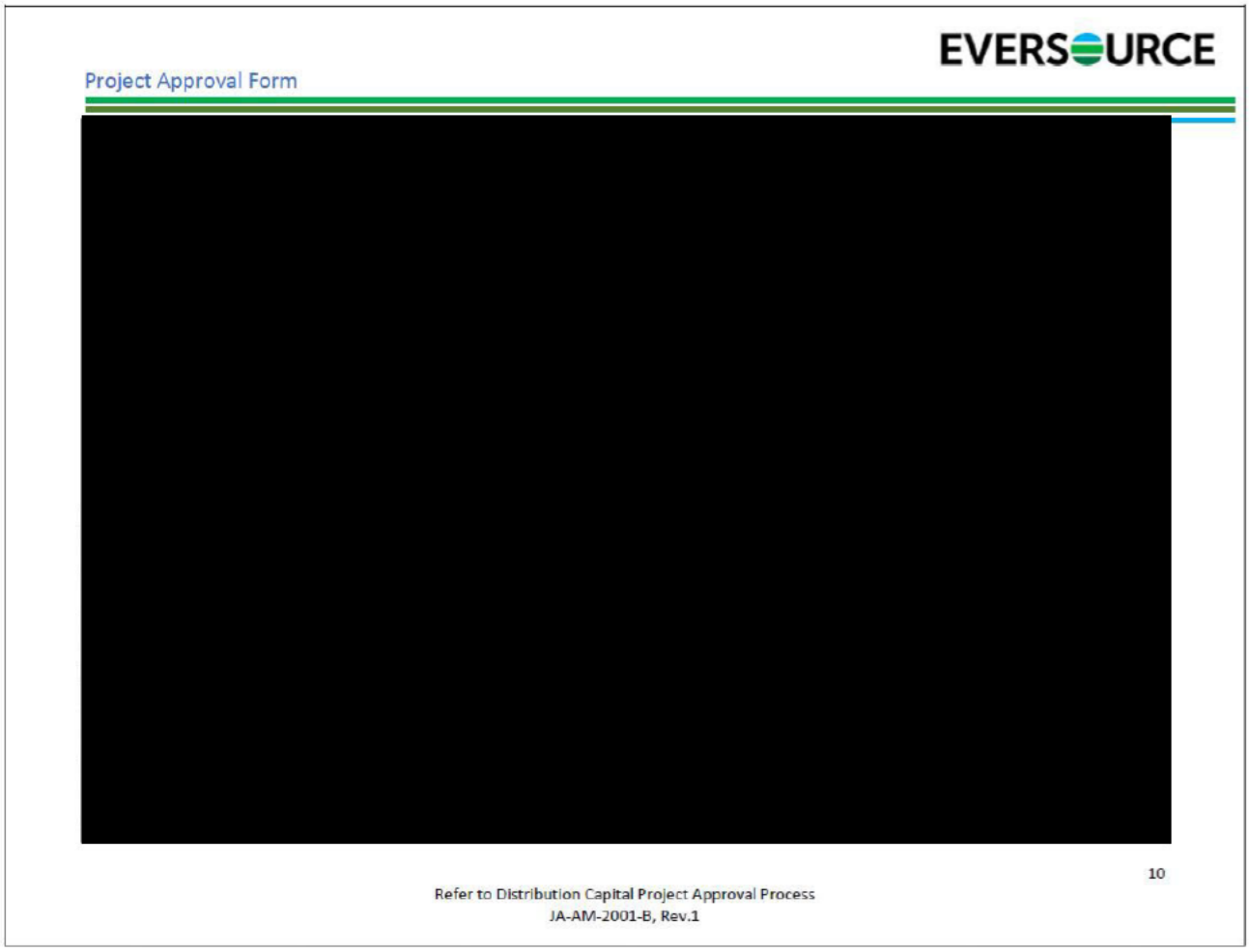
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Attachment D – Images of existing roof tops



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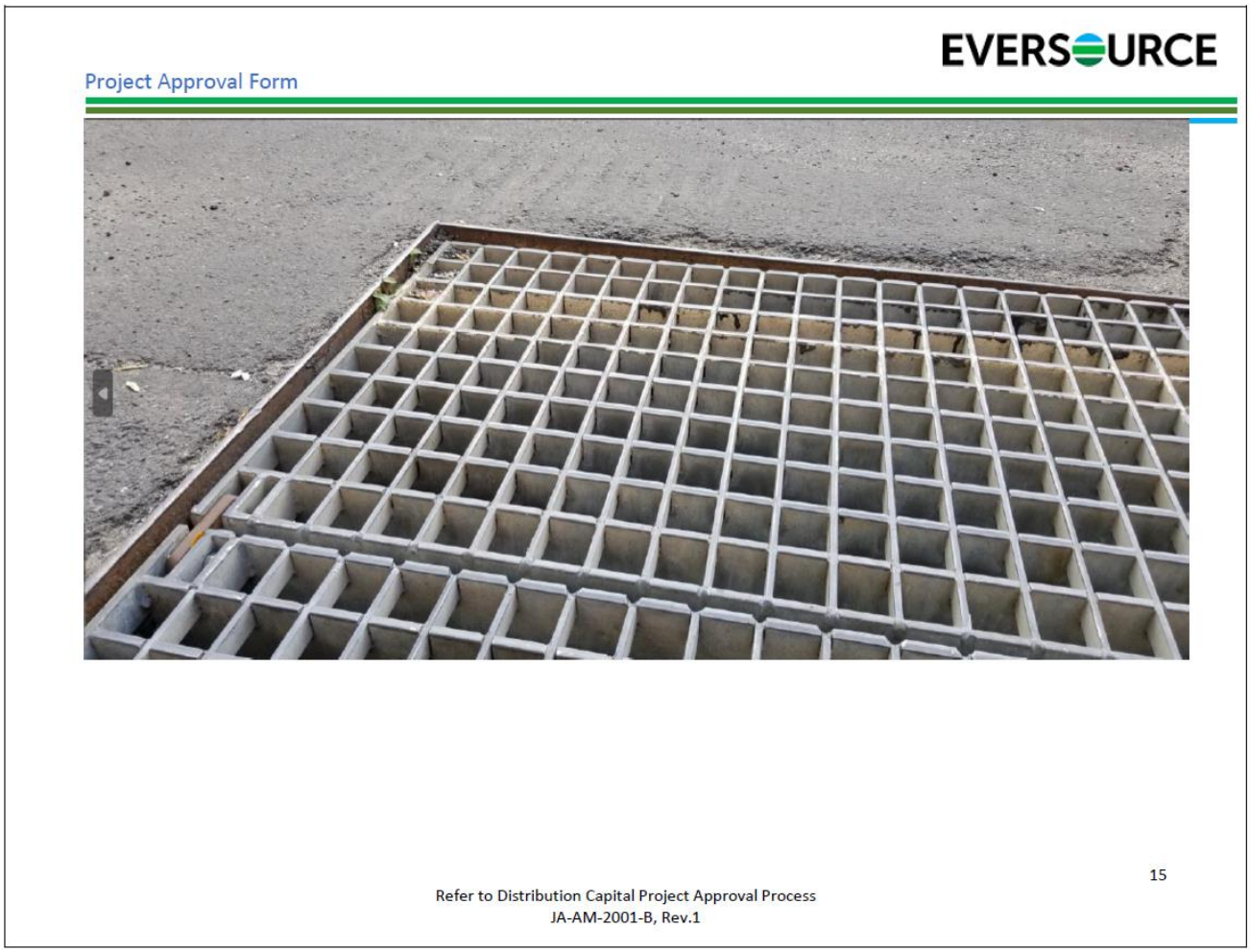
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