EVERSOURCE

Project Approval Form

| | |
|---|---|
| **Project Title:** Town of Greenwich – Repl. MH Covers | **Project Number:** CD02220 |
| **Date Prepared:** 12/06/2023 | **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:** 12/31/2025 | |
| **Total Capital Request:** $418.8K | **Authorization Type:** Full Funding |

# 1. Executive Summary

Full funding is being requested for this project at a cost of $418.8K which is 109% of the $383K approved for partial funding. There is no scope change in the project. This project is being done in conjunction with the Town of Greenwich Street paving list for 2023/2024. The town requested that Eversource address any UG projects that include the Streets on the list before they are paved. [redacted] MH covers were identified that will be replaced with new energy release covers.

# 2. Project Cost Summary

Note: Dollar values are in thousands.

| Capital Costs | 2024 | 2025 | 2026 | Total |
|---|---|---|---|---|
| Internal Labor and Construction Equipment | 0.0 | 0.0 | 0.0 | 0.0 |
| Outside Services | 48.6 | 64.8 | 0.0 | 113.4 |
| Materials | 42.2 | 56.3 | 0.0 | 98.5 |
| Removals | 12.0 | 15.8 | 0.0 | 27.8 |
| Risk and Contingency | 17.1 | 21.0 | 0.0 | 38.1 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 |
| **Subtotal** | **119.8** | **157.9** | **0.0** | **277.7** |

| Indirect Capital Costs | 2024 | 2025 | 2026 | Total |
|---|---|---|---|---|
| Indirects/Overheads (including benefits) | 67.9 | 73.2 | 0.0 | 141.1 |
| Capitalized interest or AFUDC, if any | 0.0 | 0.0 | 0.0 | 0.0 |
| **Subtotal** | **67.9** | **73.2** | **0.0** | **141.1** |
| | | | | |
| **Total Capital Costs (Gross)** | **187.7** | **231.1** | **0.0** | **418.8** |
| | | | | |
| Less Total Customer Contribution | **0.0** | **0.0** | **0.0** | **0.0** |
| | | | | |
| **Project Costs (Net of Reimbursement)** | **187.7** | **231.1** | **0.0** | **418.8** |

# 3. Technical Justification

## Background, Project Need/Justification, and Project Scope

### a. Background

The town of Greenwich typically sends Eversource their yearly street paving list and requests that any known UG projects along those streets be addressed before they are paved such that the newly paved streets won't have to be dug up anytime soon.

## b. Project Need

Eversource has embarked on a program to replace all manhole covers with new energy release MH covers. This represents a public safety improvement for the company and its customers, and these new covers do not become dislodged in the event of a fault in the manholes. [redacted] manholes were identified along the streets that were on the Greenwich 2023/2024 street paving list.

## c. Project Scope

[redacted]

## 4. Alternatives Considered

An alternative would be to leave the manholes with the existing covers, but the risk would be to have these covers dislodge during a fault in the manholes and cause damage to property or injury to people. Being pro-active and replacing the manhole covers will improve safety.

## 5. Project Schedule

| Milestone/Phase Name | Estimated Date |
|---|---|
| 100% Detailed Engineering Completion | October 2023 |
| Fully Funded | December 2023 |
| Construction Start | January 2024 |
| In Service Date | December 2025 |

## 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. |
| Internal construction resources not available to perform the work. | 2024 | High | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Materials Shortage or long lead times | 2024 | Medium | 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. |
| 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. |

## 9. References

| References |
|---|
| 1. N/A |

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

| Attachment | Included in Submittal? |
|---|---|
| A. Cost Estimate | *YES* |
| B. Greenwich Paving List | *YES* |
| C. Manhole locations | *YES* |
| D. Partial Funding PAF | *YES* |

Attachment A: Cost Estimate

Design Alternative CD02220-01

**Estimate**

Preliminary Estimate Summary

| | |
|---|---|
| Revision Number: | 0 |
| Contingency: | 20.00% |
| SubTotal: | $328,500 |
| Contingency Amount: | $65,700 |
| Estimate: | $394,200 |
| Reimbursement: | $0 |
| Net Amount: | **$394,200** |

Description: Replace [redacted] MH frames & covers @ [redacted] $305,500

| Item Description | CU | $ / Per | Qty | Amount |
|---|---|---|---|---|
| TRAFFIC<br>OH/DB/UG - Traffic Control - Police Officer | 16-ALL18 | [redacted] | | $23,000.00 |
| OTHER<br>OTHER<br>Labor, Equipment & mat'l to replace [redacted] MH frames & covers @ [redacted] per location | 16-ALL14 | | | $305,500.00 |

Attachment B: [redacted] Paving List

Town of [redacted] DPW - Highway Division
FY 2023-2024 Proposed Asphalt Paving List

| STREET NAME | FROM | TO |
|---|---|---|
| [redacted] | | |

Town of [redacted] DPW - Highway Division
FY 2023-2024 Proposed Asphalt Paving List

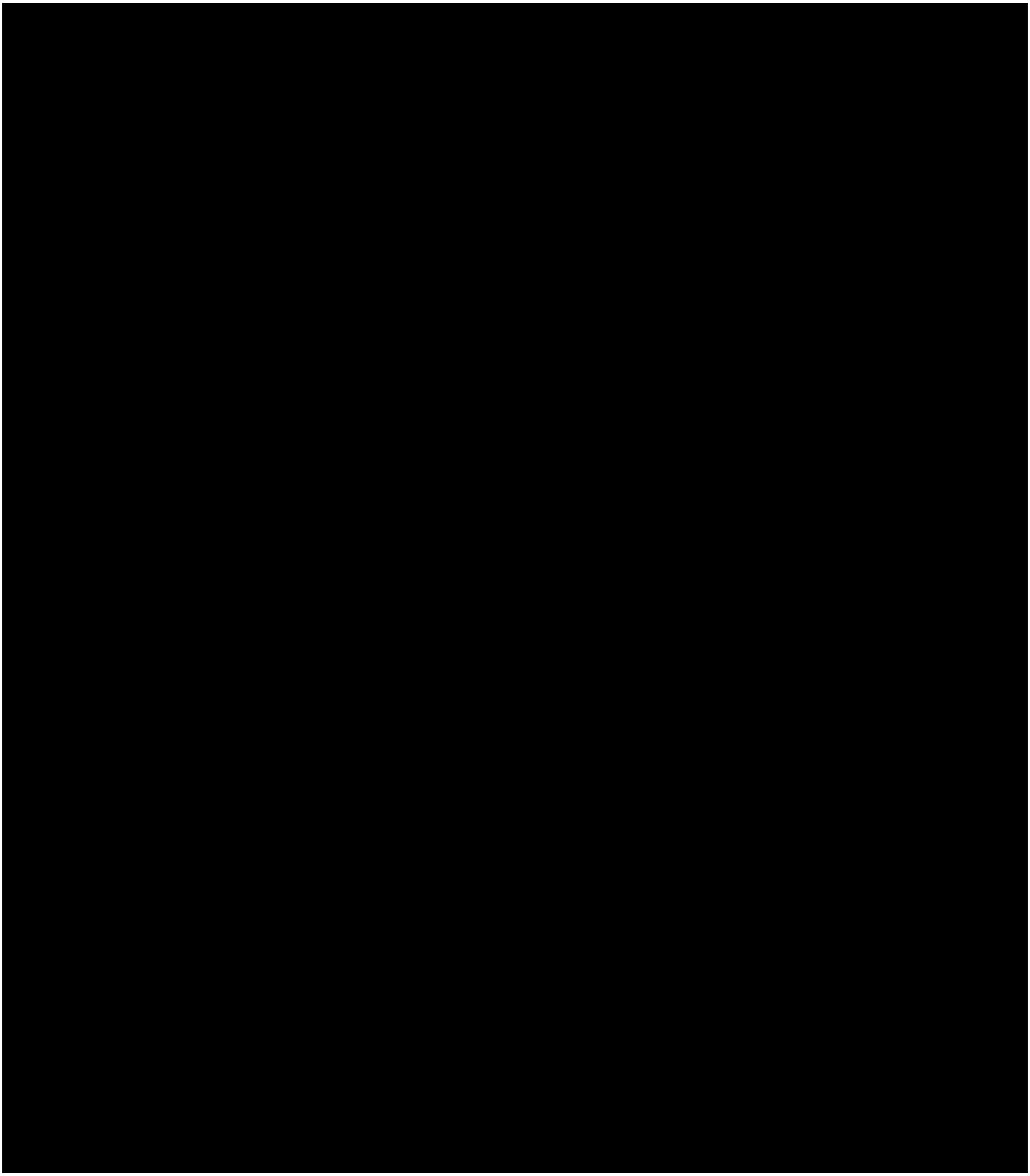
| STREET NAME | FROM | TO |
|---|---|---|
| [redacted] | | |

Town of [redacted] DPW - Highway Division
FY 2023-2024 Proposed Asphalt Paving List

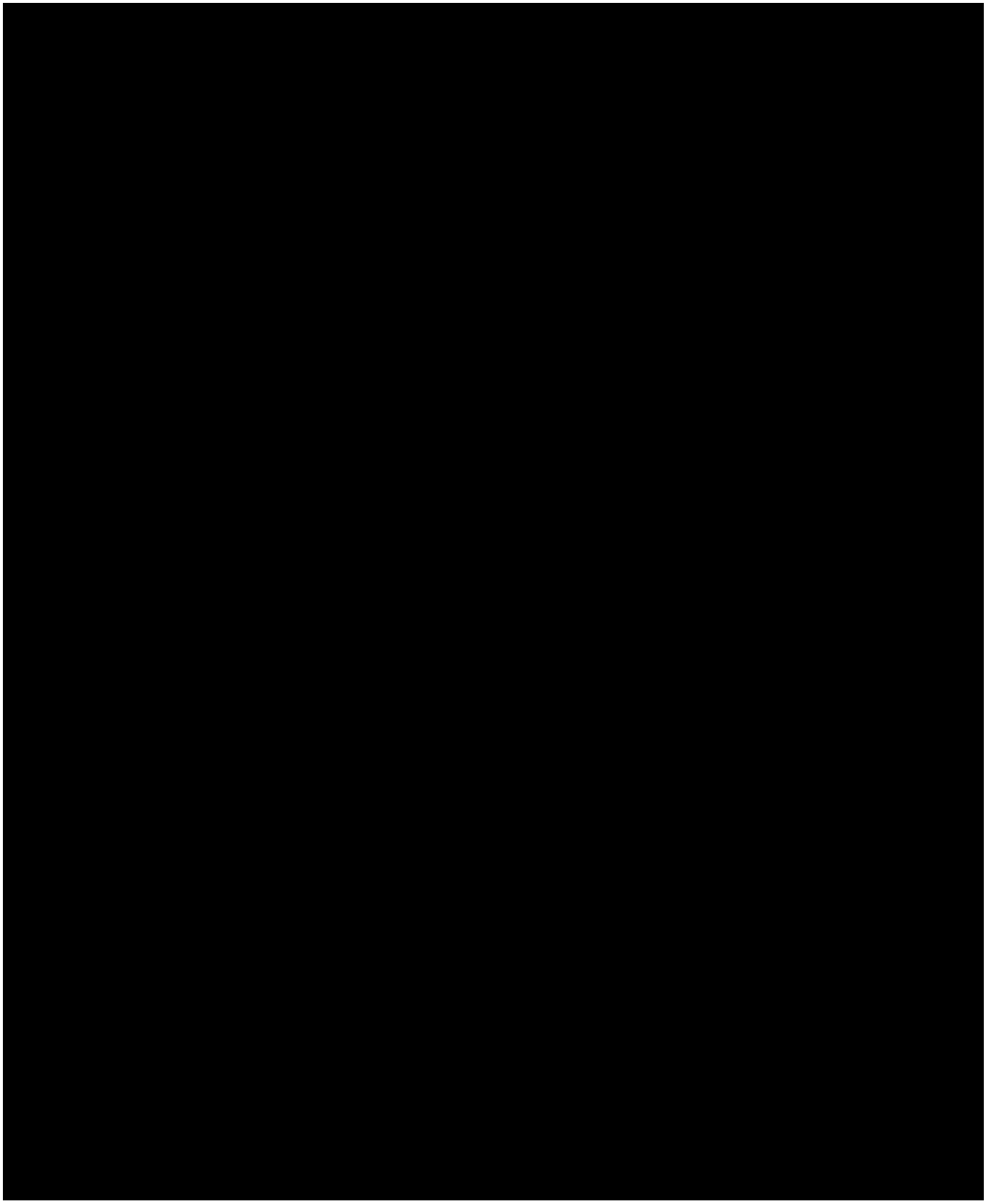
| STREET NAME | FROM | TO |
|---|---|---|
| [redacted] | | |

Attachment C: Manhole locations

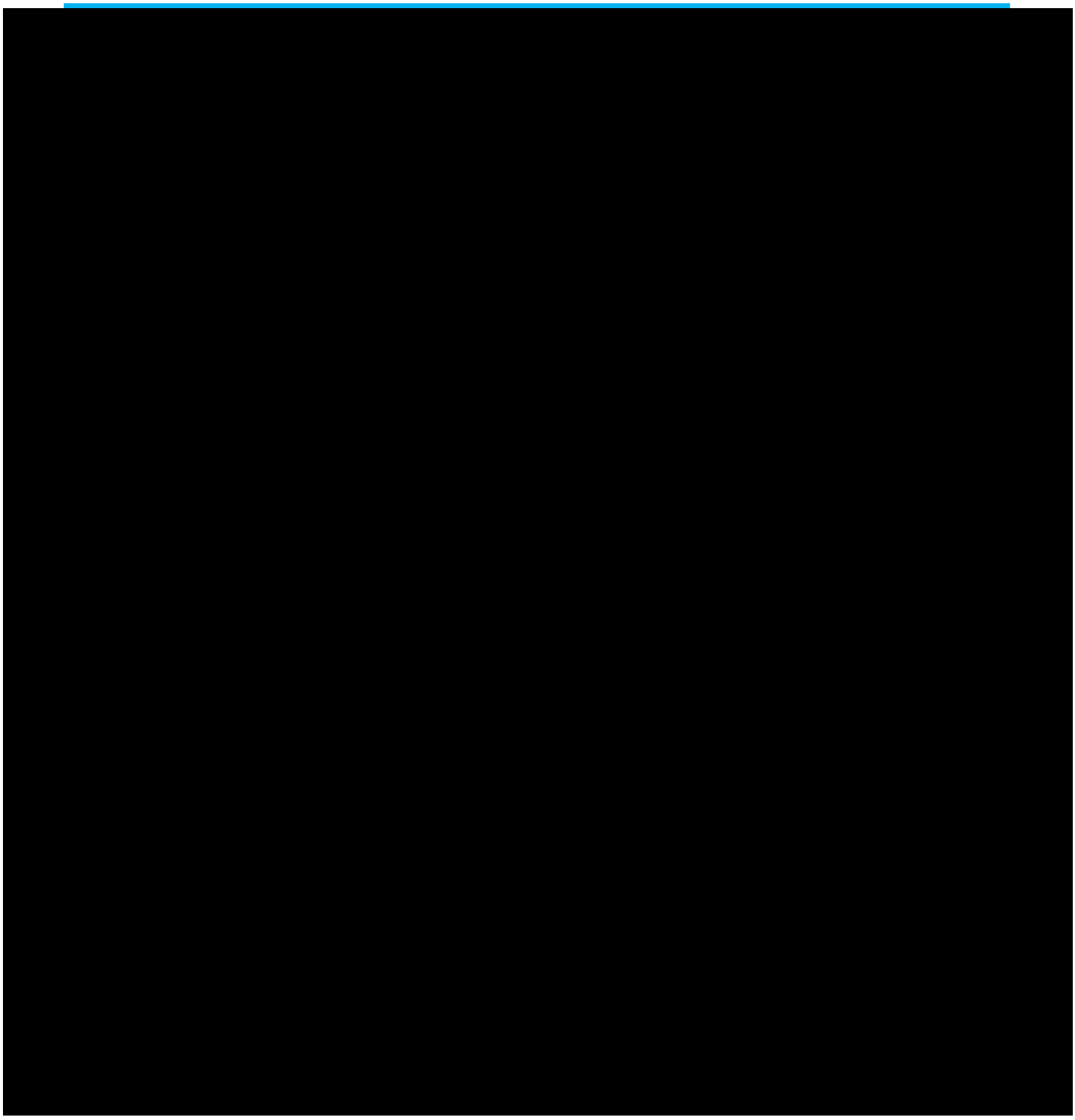
[redacted]

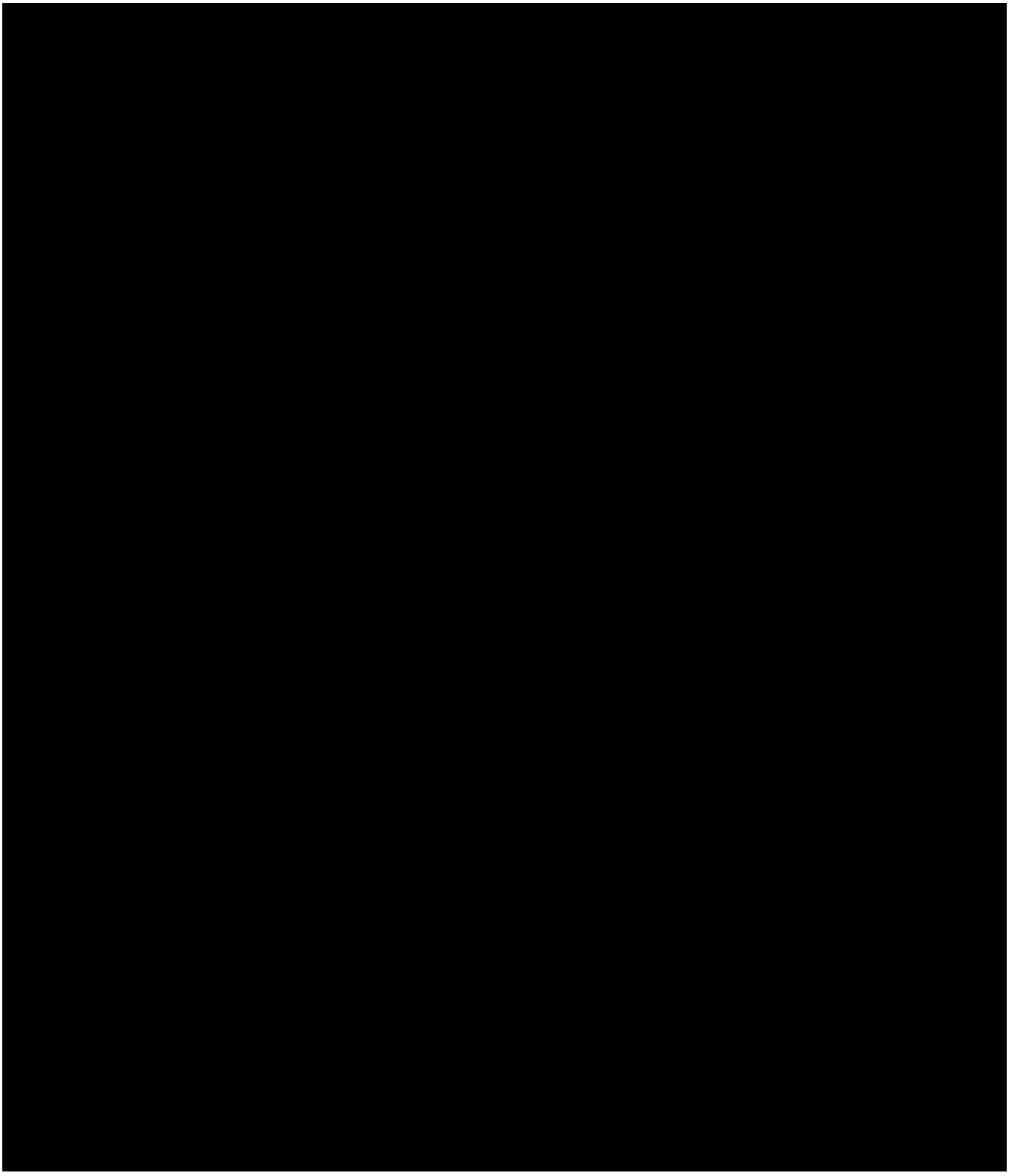












Attachment D: Partial Funding PAF

# Operations Project Authorization Form

| | |
|---|---|
| **Project Title:** Town of Greenwich – Repl MH Covers | **Project Number:** CD02220 |
| **Date Prepared**: 04/28/2023 | **Company:** Eversource CT |
| **Organization:** Electric Field Operations | **Class(es) of Plant:** D Line |
| **Project Initiator:** [redacted] | **Project Category:** UNDERGROUND STRUCTURE ISSUE |
| **Project Manager:** [redacted] | **Project Type:** Specific |
| **Project Sponsor:** [redacted] | **Capital Investment part of original Operating Plan:** No |
| **Estimated in service date:** 12/31/24 | **Emergency Related Request?** No |
| **Eng./Constr. Resources Budgeted?** Yes | **Facility Type** (check all that apply)**:** |
| **Total Gross Capital Request: $383K** | **Authorization Type:** Initial Funding |

## Executive Summary

The Town of Greenwich sent Eversource their 2023/2024 Street Paving list and request that we address any projects that include streets on the list. This project seeks to replace approximately [redacted] MH covers with new Energy release covers on streets in conjunction with the Town's paving list.

## Project Costs Summary

*Note: Dollar values are in thousands*

| Capital Costs | 2023 | 2024 | 2025+ | Total |
|---|---|---|---|---|
| Internal Labor and Construction Equipment | 4.1 | 4.1 | 0.0 | 8.1 |
| Outside Services | 78.6 | 78.6 | 0.0 | 157.3 |
| Materials | 4.9 | 4.9 | 0.0 | 9.8 |
| Removals | 45.5 | 45.5 | 0.0 | 91.0 |
| Other | 0.2 | 0.2 | 0.0 | 0.3 |
| Risk and Contingency | 0.0 | 0.0 | 0.0 | 0.0 |
| **Subtotal** | **133.3** | **133.3** | **0.0** | **266.5** |

| Indirect Capital Costs | 2023 | 2024 | 2025+ | Total |
|---|---|---|---|---|
| Indirects/Overheads (including benefits) | 57.6 | 57.6 | 0.0 | 115.2 |
| Capitalized interest or AFUDC, if any | 0.6 | 0.6 | 0.0 | 1.3 |
| **Subtotal** | **58.2** | **58.2** | **0.0** | **116.5** |
| | | | | |
| **Total Capital Costs (Gross)** | **191.5** | **191.5** | **0.0** | **383.0** |
| | | | | |
| Less Total Customer Contribution | **0.0** | **0.0** | **0.0** | **0.0** |
| | | | | |
| **Project Costs (Net)** | **191.5** | **191.5** | **0.0** | **383.0** |

## Technical Justification:

**Project Need, Objective and Justification:**

The Town of Greenwich will be paving several streets in 2023/2024. Eversource will take this opportunity to replace MH covers on some streets with new energy release MH covers. This represents a public safety improvement for the company and its customers.

**Project Scope:**

[redacted]

**Background:**

Eversource plans on installing new energy release covers on its manholes moving forward. Existing manhole covers will be replaced with the new covers over time. The town of Greenwich will be paving several streets in 2023 and 2024. Eversource will be taking this opportunity to replace covers on manholes along affected streets.

## Alternatives Considered:

Do Nothing. Eversource can wait until a future date to replace these manhole covers. However, it is prudent to replace them now while the road is being paved so that the road will not have to be dug up in the future after it has already been paved.

## Regulatory Approvals:

*Are Regulatory body approvals needed for the project?*

No

## Project Schedule

| Milestone/Phase Name | Estimated Date |
|---|---|
| 100% Engineering Completion | June 2023 |
| Construction Start | July 2023 |
| In Service Date | December 2024 |

## Risks and Risk Mitigation Plans

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2023 | Low | Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues. |
| Internal construction resources not available to perform the work. | 2023 | High | 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 | 2023 | Medium | Pre-order long lead time material; minimize the use of non-standard and non-stocked material. |
| Storm delays | 2023 | Low | If storm activity delays work, we may be forced to use external resources. |
| Technological risks involving integration of new technology | 2023 | 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. |

## References

CD02220_project_needs_statement.pdf

Greenwich 2023-2024 Projected

## Appendices (One-Line Diagrams, Images, etc.)

Greenwich%20Paving%20List%20-%20M