Operations Project Authorization Form

Project Title: REPAIR & REPL OF CL&P UG STRUCTURES	**Project Number:** 10161021
Date Prepared: 04/12/2024	**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: 12/31/2021	
Total Capital Request: $1,115K	**Authorization Type:** Full Funding

Executive Summary

This request is for the approval of $1,115K for structural repairs identified during annual underground inspections in 2021.

The main goal of this project is to rebuild or replace structures that are unsafe or no longer meet specific system needs. Structures to be replaced will be identified through regular inspection programs and subsequent evaluations by civil engineers. On an annual basis the Company prioritizes repairs for emergent issues.

Project Costs Summary / Financial Evaluation

Capital Costs	Year 1	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	371.0	0.0	0.0	371.0
Outside Services	42.4	0.0	0.0	42.4
Materials	90.1	0.0	0.0	90.1
Removals	66.3	0.0	0.0	66.3
Risk and Contingency	26.5	0.0	0.0	26.5
Other	0.0	0.0	0.0	0.0
Subtotal	**596.2**	**0.0**	**0.0**	**596.2**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	515.3	0.0	0.0	515.3
Capitalized interest or AFUDC, if any	3.5	0.0	0.0	3.5
Subtotal	**518.8**	**0.0**	**0.0**	**518.8**
Total Capital Costs (Gross)	**1,115.0**	**0.0**	**0.0**	**1,115.0**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net)	**1,115.0**	**0.0**	**0.0**	**1,115.0**

WO NUMBER	WO DESCRIPTION	PROJECT DEPT CODE	PROJECT	PROJECT DESCRIPTION	WO IN SRV DATE	WO INIT DATE	Total Amount (K)
80072909	BCW MATERIAL DL; 6TH ST; REPAIR OF	210	101610	REPAIR & REPL OF CL&P UG STRUCTURES	8/25/2021	5/10/2021	$347
80086685	sw Replc. Damaged beams, slabs &	210	101610	REPAIR & REPL OF CL&P UG STRUCTURES		6/17/2021	$260
80161013	ROOF REPLACEMENT - COURT ST VAULT #1	210	101610	REPAIR & REPL OF CL&P UG STRUCTURES	11/30/2023	12/1/2021	$508
Total							**$1,115**

Work Order 80072909 consisted of replacing the rooftop on [redacted]
Work Order 80086685 consisted of replacing grates, slabs, frame, and beams in [redacted]
Work Order 80161013 consisted of replacing multiple [redacted]

Technical Justification

Project Need Statement

Structural repairs are required to ensure the safety of workers and the public. Safety would be negatively impacted if structural failures were not addressed. This is done by rebuilding or replacing structures that are unsafe or no longer meet specific system needs. Typical structures include concrete manholes, service boxes, transformer vaults and duct structures. The most common mode of structural failure is in the roof and/or cover of underground structures. These components take the majority of mechanical stress from above-ground traffic. Other less common failure modes include age/obsolescence of materials and previous but undiscovered damage done by past excavation for road or utility work.

Project Objectives

Reduction in risk associated with public safety and liability, improved worker safety from elimination of job-site structural hazard, quicker response to restoration activities.

Project Scope

Repair, replace, or remove structural diffiencies as identified through annual inspections.

Major Material

- Vault roofs
- Vault grates
- Roof beams
- Concrete repairs
- Manhole covers
- Service boxes

Background / Justification

This project will address underground structures that need to be repaired, replaced, or removed for the betterement of the system.

Business Process and / or Technical Improvements
N/A

Project Schedule:

Milestone/Phase Name	Estimated Completion Date
PAF approval Final Design	2021
Construction	January, 2021 – December, 2021

Regulatory Approvals: N/A

Risks and Risk Mitigation Plans: N/A

References: None

Attachments (One-Line Diagrams, Images, etc.): N/A