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Supplement Authorization Form

Project Title: Man to Auto - [redacted]	**Project Number: CD01269**
Date Prepared: 04/28/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
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: $301.6K	**Approved In-Service Date:** 12/31/2023
Supplement Request: $ 72.8K	**Estimated In-Service Date: 12/31/2023**
Total Capital Request ($): 374.4K	**Authorization Type:** Supplement Request
	Reason: : Cost Overage

1. Project Background

[redacted].

This project is being revised due to overage in removal costs and outside services, as well as increased direct costs. There was no change in scope.

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

2. Supplement Justification Overview

The requested amount of $72.8K is 51% above the authorized direct cost of $301.6K.

3. Supplement Justification Detail

The additional direct cost of $37.3K is mainly due to increase in outside services and removals needed for this project.

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend	Prior Authorized	Variance	New Total Request
Internal Labor and Construction Equipment	95.7	93.2	-13.5	79.7
Outside Services	63.8	14.8	38.3	53.1
Materials	13.3	25.3	-14.2	11.1
Removals	0.0	3.7	26.0	29.7
Risk and Contingency	7.3	5.9	1.4	7.3
Other	5.2	5.1	-0.7	4.4
SUBTOTAL DIRECTS W/ RISKS	**185.3**	**148.0**	**37.3**	**185.3**
Indirect / Overhead (including benefits)	183.6	149.1	34.5	183.6
AFUDC	5.4	4.5	0.9	5.4
Subtotal – Indirect Costs	**189.1**	**153.6**	**35.5**	**189.1**
TOTAL CAPITAL REQUEST	**374.4**	**301.6**	**72.8**	**374.4**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**374.4**	**301.6**	**72.8**	**374.4**

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.

Capital Costs	2019	2020	2021	2022	2023	TOTAL
Internal Labor & Equipment	1.5	2.3	0.0	8.0	67.9	79.7
Outside Services	1.0	1.5	0.0	5.3	45.2	53.1
Materials	0.2	0.3	0.0	1.1	9.4	11.1
Removals	0.5	0.8	0.0	2.8	25.5	29.7
Risk and Contingency	0.0	0.0	0.0	0.0	7.3	7.3
Other	0.1	0.1	0.0	0.4	3.7	4.4
SUBTOTAL Direct Cost	**3.4**	**5.1**	**0.0**	**17.7**	**159.1**	**185.3**
Indirects / Overheads	4.2	2.1	0.0	6.5	170.8	183.6
AFUDC	0.1	0.2	0.0	0.4	4.7	5.4
SUBTOTAL Indirect Cost	**4.3**	**2.4**	**0.0**	**6.9**	**175.5**	**189.1**
TOTAL Capital Request	**7.7**	**7.5**	**0.0**	**24.7**	**334.6**	**374.4**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**7.7**	**7.5**	**0.0**	**24.7**	**334.6**	**374.4**

5. Lessons Learned

Previously Approved PAF:

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Project Title: Man to Autc [redacted] Wtby	**Project Number: CD01269**
Date Prepared: 10/03/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
Project Initiato [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: 12/31/2023	
Total Capital Request: $301.6K	**Authorization Type:** Full Funding

1. Executive Summary

[redacted]

Project CD01269 received Initial Funding authorization of $120.1K in total dollars ($118K capital) at the 5/22/2019 CT-PAC meeting. The detail design has been completed and we are requesting Full Funding authorization of $301.6K in capital expenditures or 255.6% of the Initial Funding authorization. There is no change in scope.

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

There is no change in scope. The variance is due to underestimated labor and material costs, as follows:

- The original estimate was produced using the legacy estimating units used. The legacy estimating units are about 30% lower than the estimates that are used today, which were recently updated to reflect the increase in cost of labor and materials.
- The original estimate did not include associated cost for underground work such as manhole cleaning and the rodding of ducts for the new cable installations.
- Due to the complexity of the new loop addition, the switching time required was greater than what was estimated.

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2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2022	Year 2023	Year 2024+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	17.2	76.0	0.0	93.2
Outside Services	2.7	12.1	0.0	14.8
Materials	4.7	20.6	0.0	25.3
Removals	0.7	3.0	0.0	3.7
Risk and Contingency	0.0	5.9	0.0	5.9
Other	0.9	4.2	0.0	5.1
Subtotal – Direct Costs	**26.2**	**121.7**	**0.0**	**148.0**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	12.9	136.2	0.0	149.1
Capitalized interest or AFUDC, if any	0.8	3.7	0.0	4.5
Subtotal – Indirect Costs	**13.6**	**140.0**	**0.0**	**153.6**
Total Gross Capital Costs	**39.8**	**261.7**	**0.0**	**301.6**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**39.8**	**261.7**	**0.0**	**301.6**

Explain unique payment provisions, if applicable:

3. Technical Justification

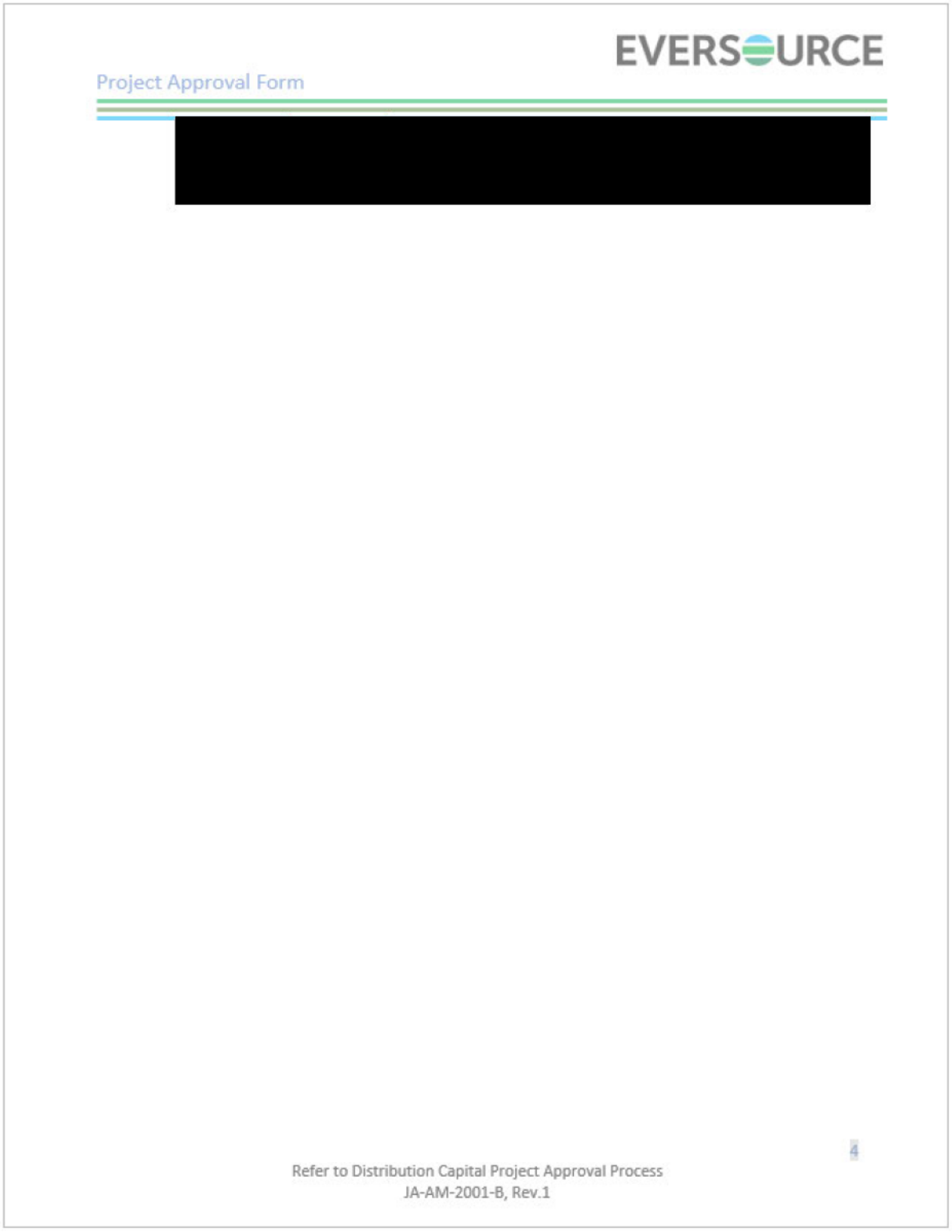
Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]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c. Project Scope

[redacted]

Major Material:

- 4/0 AL EPR 3-1/C 15kV cable - 860'

4. Alternatives Considered

Option 1: Replace the manual gear with automatic DSCADA capable gear, as follows:

[redacted]

[redacted]

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Project Option Comparison

Design Criteria	Option [redacted]	
[redacted]		
Authorization Type	Partial	Full
Capital Cost	$273.6K	$301.6K
Expense Cost	$8.6K	$3.5K
Total Cost	$282.2K	$305.1K
Preferred option		X

* Note: the estimate for option one was modified to include the 30% adjustment to the legacy estimating units used due to increased labor and materials costs, in order to make a like for like comparison of the two options.

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5. Project Schedule

Milestone/Phase Name	Estimated Date
Initial Funding Authorization	May 2019
Detailed Design	March 2023
Full Funding Authorization	October 2023
Construction End	December 2023

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.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction 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.
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	Low	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.
System abnormal configuration	2023	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

9. References

N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*N/A*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Load Summary	*YES*
E. Initial Funding PAF	*YES*

Attachment A – Cost Estimate

- N/A

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Attachment B – Project Maps



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Attachment C – One-Lines



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Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.5
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.3

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Attachment E – Initial Funding PAF

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Project Authorization Form

Operations Project Authorization Form

Date Prepared: 4/24/2019	Project Title: Man to Auto – [redacted]
Company/ies: Eversource CT	Project ID Number: CD01269
Organization: Distribution Electric	Class(es) of Plant: Distribtion
Project Initiato[redacted]	Project Category: Line
Project Manager: [redacted]	Project Type: UG Cable & Equipment Replacement
Project Sponso[redacted]	Project Purpose: Eliminate Manual Switchgear
Estimated in service date: 12/31/2020	If Transmission Project: PTF? N/A
Eng. /Constr. Resources Budgeted? N	Capital Investment Part of Original Operating Plan? N
Authorization Type: Initial Funding / ENG	O&M Expenses Part of the Original Operating Plan? N
Total Request: $120,110	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted]

This project is part of an overall program to eliminate manual switchgear in order to eliminate the need to manually transfer customers to their alternate source for loss of the preferred source.

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Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2019	2020	2021+	Totals
Capital Additions - Direct	$0	$0	$62	$0	$62
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$0	$7	$0	$7
Total - Direct Spending	$0	$0	$70	$0	$70
Capital Additions - Indirect	$0	$0	$47	$0	$47
Subtotal Request	$0	$0	$117	$0	$117
AFUDC	$0	$0	$1	$0	$1
Total Capital Request	$0	$0	$118	$0	$118
O&M	$0	$0	$2	$0	$2
Total Request	**$0**	**$0**	**$120**	**$0**	**$120**

Financial Evaluation

Direct Capital Costs	2019	2020	2021+	Total
Straight Time Labor	$0	$11	$0	$11
Overtime Labor	$0	$6	$0	$6
Outside Services	$0	$24	$0	$24
Materials	$0	$28	$0	$28
Other, including contingency amounts (describe)	$0	$1	$0	$1
Total	$0	$70	$0	$70

Indirect Capital Costs	2019	2020	2021+	Total
Indirects/Overheads (including benefits)	$0	$47	$0	$47
Capitalized interest or AFUDC, if any	$0	$1	$0	$1
Total	$0	$48	$0	$48

Total Capital Costs	$0	$118	$0	$118
Less Total Customer Contribution	$0	$0	$0	$0
Total Capital Project Costs	$0	$118	$0	$118
Total O&M Project Costs	$0	$2	$0	$2
Total Project Cost	$0	$120	$0	$120

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Background / Justification

[redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates

[redacted]

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Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.5
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.3

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Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	May 2019
Detailed Design	August 2019
Full Fuinding Authorization	September 2019
Construction Begin	March 2020
Construction End	December 2020

Regulatory Approvals

None required

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Note: load levels reflect 2020 projected loads.



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Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2020	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	2020	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2020	Low	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.	2019	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2020	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2020	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2020	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01269
Man to Auto [redacted]Vtby

Work Classification

Category: Line
Type: REL1
Type Desc: UG CABLE & EQUIPMNT REPLACEMNT
Work Type:

Ownership / Management

AWC: Cheshire
Statewide: No
Owner: [redacted]
Manager: [redacted]

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

Feed 2 N Main St from UCONN 246D gear

2020

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
2	Feed xfmr from [redacted]	Prelim	0	24%	$120,110	$120,110
				2020 Total:	$120,110	$120,110
				Total Project:	$120,110	$120,110

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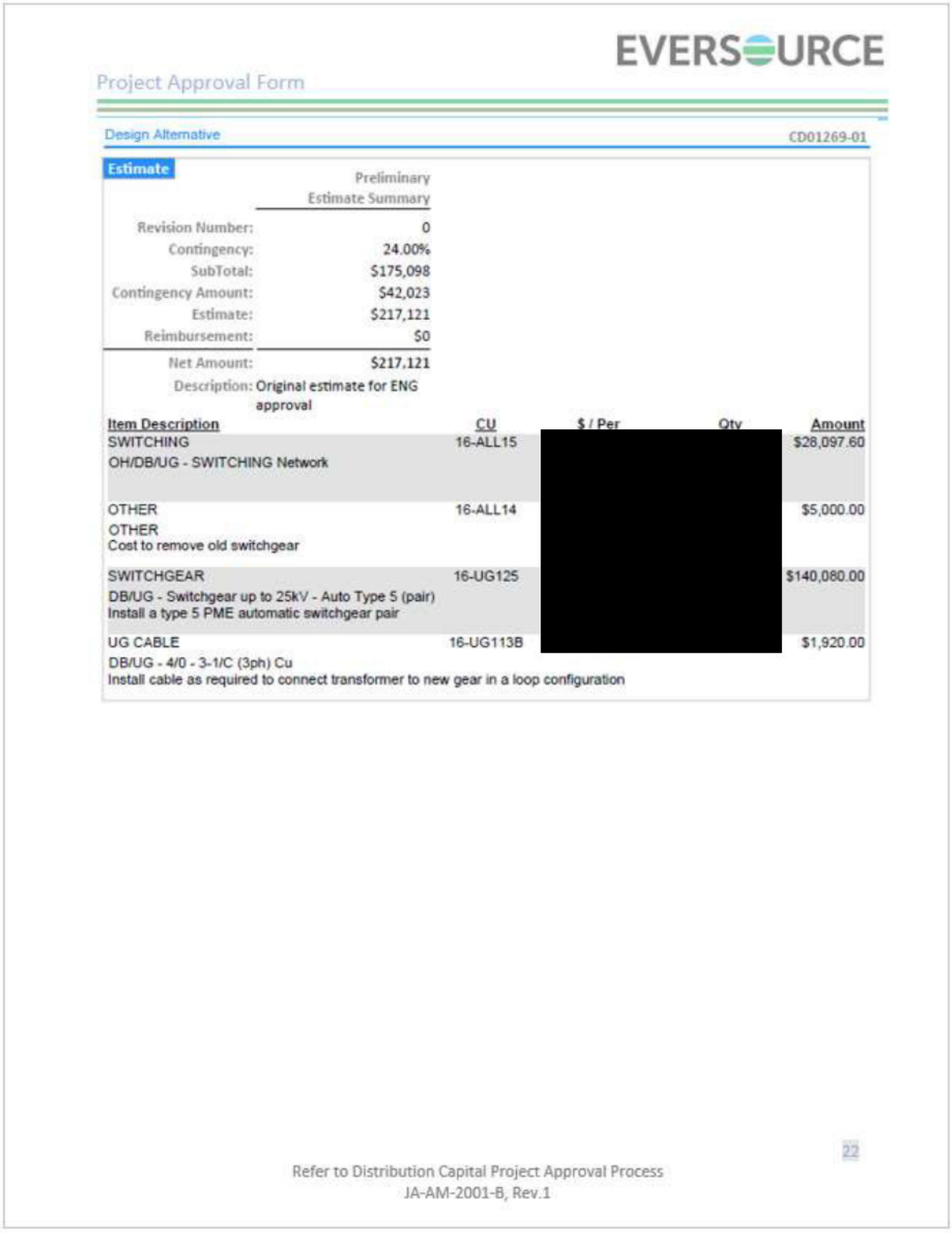

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Project Approval Form

Design Alternative CD01269-01

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$175,098
Contingency Amount:	$42,023
Estimate:	$217,121
Reimbursement:	$0
Net Amount:	$217,121

Description: Original estimate for ENG approval

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING Network	16-ALL15	[redacted]		$28,097.60
OTHER OTHER Cost to remove old switchgear	16-ALL14			$5,000.00
SWITCHGEAR DB/UG - Switchgear up to 25kV - Auto Type 5 (pair) Install a type 5 PME automatic switchgear pair	16-UG125			$140,080.00
UG CABLE DB/UG - 4/0 - 3-1/C (3ph) Cu Install cable as required to connect transformer to new gear in a loop configuration	16-UG113B			$1,920.00

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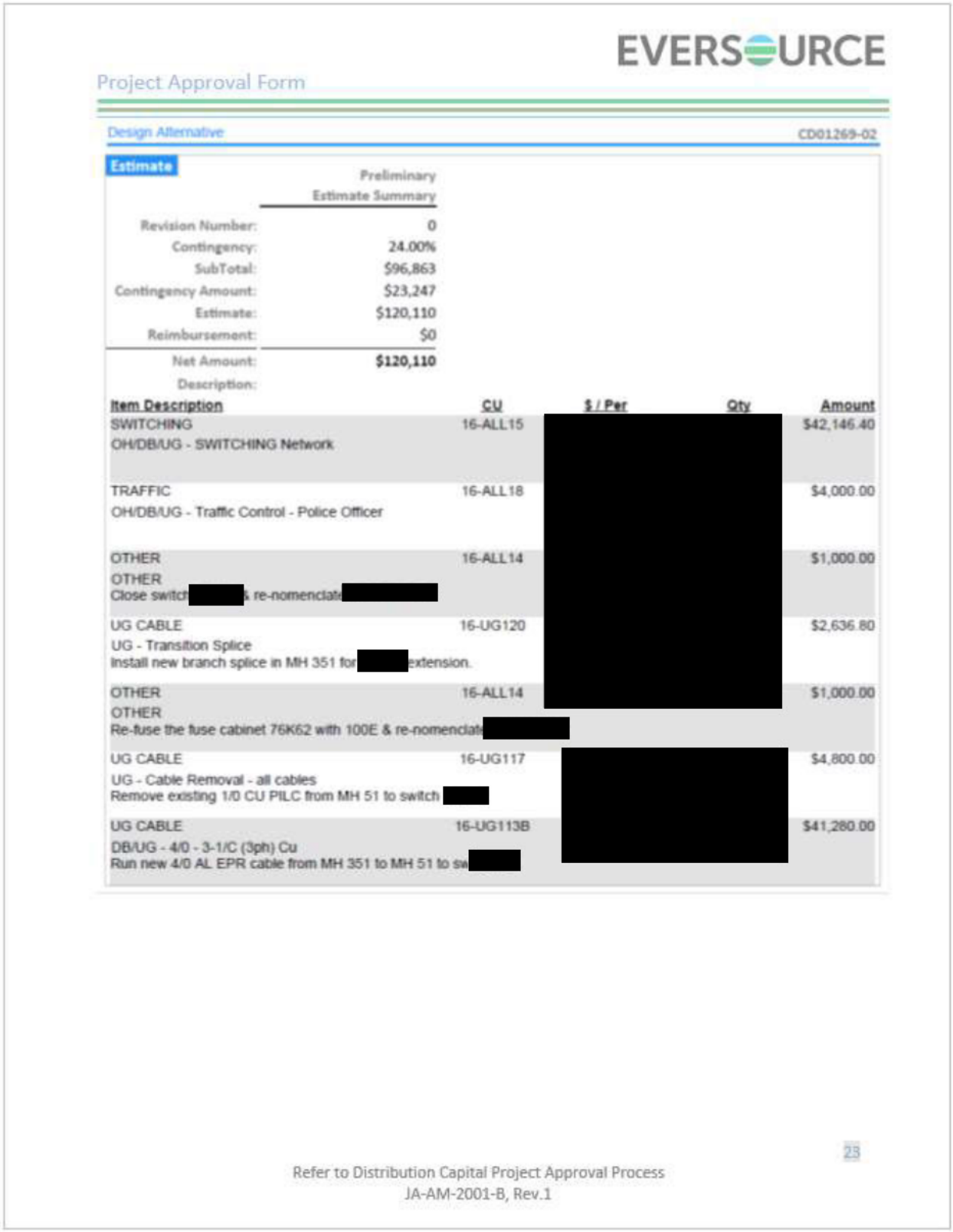

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Project Approval Form

Design Alternative CD01269-02

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$96,863
Contingency Amount:	$23,247
Estimate:	$120,110
Reimbursement:	$0
Net Amount:	**$120,110**

Description:

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING Network	16-ALL15	[redacted]		$42,146.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$4,000.00
OTHER OTHER Close switch [redacted] & re-nomenclat[redacted]	16-ALL14			$1,000.00
UG CABLE UG - Transition Splice Install new branch splice in MH 351 for [redacted] extension.	16-UG120			$2,636.80
OTHER OTHER Re-fuse the fuse cabinet 76K62 with 100E & re-nomenclat[redacted]	16-ALL14			$1,000.00
UG CABLE UG - Cable Removal - all cables Remove existing 1/0 CU PILC from MH 51 to switch [redacted]	16-UG117	[redacted]		$4,800.00
UG CABLE DB/UG - 4/0 - 3-1/C (3ph) Cu Run new 4/0 AL EPR cable from MH 351 to MH 51 to sw[redacted]	16-UG113B			$41,280.00

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