EVERSOURCE

Project Approval Form

Project Title: [redacted]	**Project Number: CD01308**
Date Prepared: 12/07/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RIGHT OF WAY LINES
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: 6/30/24	
Total Capital Request: $3,202K	**Authorization Type:** Full Funding

1. Executive Summary

[redacted]

[redacted]

[redacted]

To eliminate the ROW access issues, the proposal is as follows:

[redacted]

12/7/23 – Full Funding request. The Partial Funding estimate is $3,522K, approved on 2/19/21. Full Funding estimate is $3,202K, $320K less, or 91% of Partial Funding estimate. Much of this work has been completed, the only work remaining is the [redacted]. Also, a permit is required from the [redacted] and this permit has not yet been received. [redacted].

Also, the first portion of this project called to [redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2021	Year 2022	Year 2023	Year 2024	Total
Direct Capital Costs					
Internal Labor and Construction Equipment	71.7	266.5	127.5	13.8	479.5
Outside Services	59.9	222.9	106.6	11.5	401.0
Materials	116.3	432.6	206.9	22.4	778.1
Removals	31.4	116.7	55.8	20.3	224.2
Risk and Contingency	0.0	0.0	0.0	115.7	115.7
Other	5.9	21.9	10.5	1.1	39.4
Subtotal – Direct Costs	**285.2**	**1,060.6**	**507.2**	**184.8**	**2,037.8**
Indirect Capital Costs					
Indirect/Overheads (including benefits)	162.5	523.2	278.1	86.6	1,050.4
Capitalized interest or AFUDC, if any	2.0	72.4	39.5	0.0	114.0
Subtotal – Indirect Costs	**164.5**	**595.7**	**317.6**	**86.6**	**1,164.4**
Total Gross Capital Costs	**449.7**	**1,656.3**	**824.8**	**271.4**	**3,202.2**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Total Net Capital Project Costs	449.7	1,656.3	824.8	271.4	3,202.2

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

There are two issues, and both involve ROW's.

[redacted]

b. Project Need

[redacted]

[redacted]

c. Project Scope

[redacted]

4. Alternatives Considered

Project Option Comparison

Design Criteria	Option	
	[redacted]	
Authorization Type	Full	Partial
Capital Cost	$3,202K	$1,750K
Expense Cost	$78K	$75K

Total Cost	$3,280K	$1,825K
Preferred option	X	

5. Project Schedule

Add any additional milestones that are pertinent to the project.

Milestone/Phase Name	Estimated Date
Partial Approval	2/19/21
100% Detailed Engineering Completion	10/31/23
Fully Funded	12/7/23
Construction Start	3/1/21
In Service Date	6/30/24

6. Regulatory Decisions

7. Codes and Standards

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021-24	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	2021-24	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2021-24	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.	2021-24	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2021-24	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

Storm delays	2021-24	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021-24	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	2021-24	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	2021-24	High	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1.
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Work by Year	*YES*
B. Estimate by Year	*YES*
C. Cost Estimate	*YES*
D. Geographic Map	*YES*

E. ROW Maps	*YES*
F. Load Sheet	*YES*

Attachment A – Work by Year

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308

Reroute inaccessible ROW west of [redacted]

Work Classification

Category: Line
Type: RBPR
Type Desc: LINE RELOCATION-MDC
Work Type:

Ownership / Management

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

Project Information

Status: Prelim Design Approved
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option — Final Proposal

2021

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
4	2022: UG [redacted] nd UG [redacted]	Prelim	0	20%	$659,782	$659,782
1	2021 work: Route [redacted]	Prelim	0	20%	$1,691,730	$1,691,730
				2021 Total:	$2,351,512	$2,351,512

2022

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
2	2022 Work: Route [redacted]	Prelim	0	24%	$924,476	$924,476
				2022 Total:	$924,476	$924,476

2023

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
9	2023 Work. Remove abandoned row WIRE	Prelim	0	28%	$245,524	$245,524
				2023 Total:	$245,524	$245,524
				Total Project:	$3,521,512	$3,521,512

Asset & Investment Management System 9/25/2023 Page 1 of 30

Attachment B – Final Approved Work and Alternative

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308

Reroute inaccessible ROW west of [redacted]

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Proposal	4,5,6	$2,988,096	$0	100%	$0.00	$0.00	☐
O3	Final Proposal	1,2,4,9	$3,521,512	$0	100%	$0.00	$3,608.38	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	2021 work: Route [redacted]	$1,691,730			$0.00	$0.00
2	2022 Work: Route [redacted]	$924,476			$0.00	$946.29
3	Reroute [redacted]	$1,866,905			$0.00	$0.00
4	2022: UG [redacted] nd UG [redacted]	$659,782			$0.00	$0.00
5	2021 Work	$1,726,217			$0.00	$0.00
6	2022 Work	$602,097			$0.00	$0.00
7	2023 Work	$292,586			$0.00	$0.00
8	Option 2 of rerouting [redacted]				$0.00	$0.00
9	2023 Work. Remove abandoned row WIRE	$245,524			$0.00	$0.00

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Attachment C – Estimate Segment 1

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	20.00%
SubTotal:	$1,409,775
Contingency Amount:	$281,955
Estimate:	$1,691,730
Reimbursement:	$0
Net Amount:	**$1,691,730**
Description:	2021 Work: Extend [redacted] from [redacted] to front of [redacted]

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	[redacted]		$17,548.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$20,000.00
SECTIONALIZE OH - Cutouts or Arresters - 1ph	16-OH19			$16,454.40
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A			$8,000.00
SECTIONALIZE OH - Recloser - 3ph	16-OH38			$95,979.20
XF OH - OH XF - 1ph	16-OH45			$25,315.20
POLE DB/UG - Riser - 3ph	16-UG146			$64,766.40
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil 15L46	16-OH29			$358,400.00
OH WIRE OH - Line Extension w/Aerial Cable - (any gauge)	16-OH35			$792,000.00

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308

Reroute inaccessible ROW west of [redacted]

Segment CD01308-01

15L70				
SECTIONALIZE	16-OH42	5656.00 / LOC	2	$11,312.00
OH - Remove Recloser (any) relocate [redacted]				

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	OLD SAYBROOK	[redacted]		0	
Existing			2976 OLD SAYBROOK			[redacted]	
Existing			3081 OLD SAYBROOK			0	
Existing			1 OLD SAYBROOK			0	

Reliability Projection

Title:

Outage Start Date: 2/18/2017 Outage End Date: 2/18/2021 Years History: 4.00

[redacted]

Estimate Segment 2

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$745,545
Contingency Amount:	$178,931
Estimate:	$924,476
Reimbursement:	$0
Net Amount:	**$924,476**
Description	[redacted]

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	[redacted]		$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$20,000.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian)	16-OH14A			$23,380.80
SECTIONALIZE OH - Cutouts or Arresters - 1ph	16-OH19			$9,598.40
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A			$9,920.00
XF OH - OH XF - 1ph	16-OH45			$14,767.20
OTHER Credit Adjustment Value All poles are replaced in pole line extension. Credit for 50% pole replacement in reconductoring	16-ALL20			($35,600.00)
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil Extend [redacted] verbuild	16-OH29	[redacted]		$317,440.00
OH WIRE OH - Line Extension - 3ph (556 kcmil)	16-OH34			$372,000.00

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-02

Reconductor 22D2 future 22D4 under build

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]		1134 OLD SAYBROOK	[redacted]		[redacted]	
Existing			2976 OLD SAYBROOK				
Existing			3081 OLD SAYBROOK			0	
Existing			1 OLD SAYBROOK			0	

Reliability Projection

Title:
Outage Start Date: 2/18/2017 Outage End Date: 2/18/2021 Years History: 4.00

[redacted]

Estimate Segment 4

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-04

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	20.00%
SubTotal:	$549,818
Contingency Amount:	$109,964
Estimate:	$659,782
Reimbursement:	$0
Net Amount:	**$659,782**

Description: UG Work

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	[redacted]		$28,076.80
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$20,000.00
UG CABLE UG - Cable Removal - all cables	16-UG117			$4,000.00
CONDUIT UG-Ductline-up to 12 duct - Traveled Way / Paved	16-UG137			$156,400.00
ENCLOSURE UG - MANHOLE - Precast	16-UG139			$62,986.40
POLE DB/UG - Riser - 3ph	16-UG146			$86,355.20
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu Use 750Cu	16-UG114B			$192,000.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-04

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	2976 OLD SAYBROOK	[redacted]	[redacted]	[redacted]	
Existing			3081 OLD SAYBROOK			0	
Existing			1 OLD SAYBROOK			0	
Existing						0	

Reliability Projection

Title:
Outage Start Date: 2/18/2017 Outage End Date: 2/18/2021 Years History: 4.00

[redacted]

Estimate Segment 5

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-05

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$1,392,110
Contingency Amount:	$334,106
Estimate:	$1,726,217
Reimbursement:	$0
Net Amount:	**$1,726,217**

Description: 2021 Work-[redacted]

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	[redacted]		$17,548.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$50,000.00
POLE OH - POLE - 3ph (Telephone custodian)	16-OH12			$21,360.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian)	16-OH14A			$23,380.80
SECTIONALIZE OH - Cutouts or Arresters - 1ph	16-OH19			$15,083.20
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A			$3,200.00
XF OH - OH XF - 1ph	16-OH45			$23,205.60
XF OH - OH XF's - bank of 3-1ph	16-OH46			$5,019.20
XF OH - OH XF's - bank of 3-1ph	16-OH46			$5,019.20

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308

Reroute inaccessible ROW west of [redacted]

Segment CD01308-05

CONDUIT UG-Ductline-up to 12 duct - Traveled Way / Paved	16-UG137	[redacted]	$156,400.00
ENCLOSURE UG - MANHOLE - Precast	16-UG139		$62,986.40
POLE DB/UG - Riser - 3ph	16-UG146		$64,766.40
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil 1-556 XARM upper (Wire) and 1-556 lower Circuit Dist 2000ft	16-OH27		$232,800.00
SECTIONALIZE OH - Recloser Control - setting changes only [redacted] to [redacted]	16-OH39A		$4,885.60
SECTIONALIZE OH - Remove Recloser (any) [redacted]	16-OH42		$5,656.00
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil 2-556 SC Dist 3500ft but fudged to acct for doube SC	16-OH29		$537,600.00
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu 3-1000Cu 30kV, Total length 1500ft, 1-1000Cu 25kV cable 200ft	16-UG114B		$163,200.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	3081 OLD SAYBROOK	[redacted]		0	

Estimate Segment 6

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308

Reroute inaccessible ROW west of [redacted]

Segment CD01308-06

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	28.00%
SubTotal:	$470,388
Contingency Amount:	$131,709
Estimate:	$602,097
Reimbursement:	$0
Net Amount:	**$602,097**

Description: 2022 Work - [redacted]

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	[redacted]		$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18			$20,000.00
POLE OH - POLE - 3ph (Telephone custodian)	16-OH12			$35,600.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian)	16-OH14A			$11,690.40
SECTIONALIZE OH - Cutouts or Arresters - 1ph	16-OH19			$8,227.20
SECTIONALIZE OH - Cutouts or Arresters - 3ph	16-OH20			$2,315.20
XF OH - OH XF - 1ph	16-OH45			$12,657.60
XF OH - OH XF's - bank of 3-1ph	16-OH46			$5,019.20
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Dist is 3100ft (extra units are for extra upper circuit)	16-OH27			$360,840.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-06

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	OLD SAYBROOK	[redacted]		0	
Existing			OLD SAYBROOK			[redacted]	
Existing			OLD SAYBROOK			0	
Existing			3081 OLD SAYBROOK			0	

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 6/22/2020 Years History: 13.48

[redacted]

Estimate Segment 9

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01308
Reroute inaccessible ROW west of [redacted]

Segment CD01308-09

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$191,816
Contingency Amount:	$53,708
Estimate:	$245,524
Reimbursement:	$0
Net Amount:	**$245,524**

Description: Remove ROW Wire

Item Description	CU	$ / Per	Qty	Amount
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A	[redacted]		$36,160.00
SECTIONALIZE OH - Remove Recloser (any)	16-OH42			$5,656.00
OTHER OTHER Matting and Special Equip to get into Wetlands	16-ALL14			$150,000.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	OLD SAYBROOK	[redacted]		1968	

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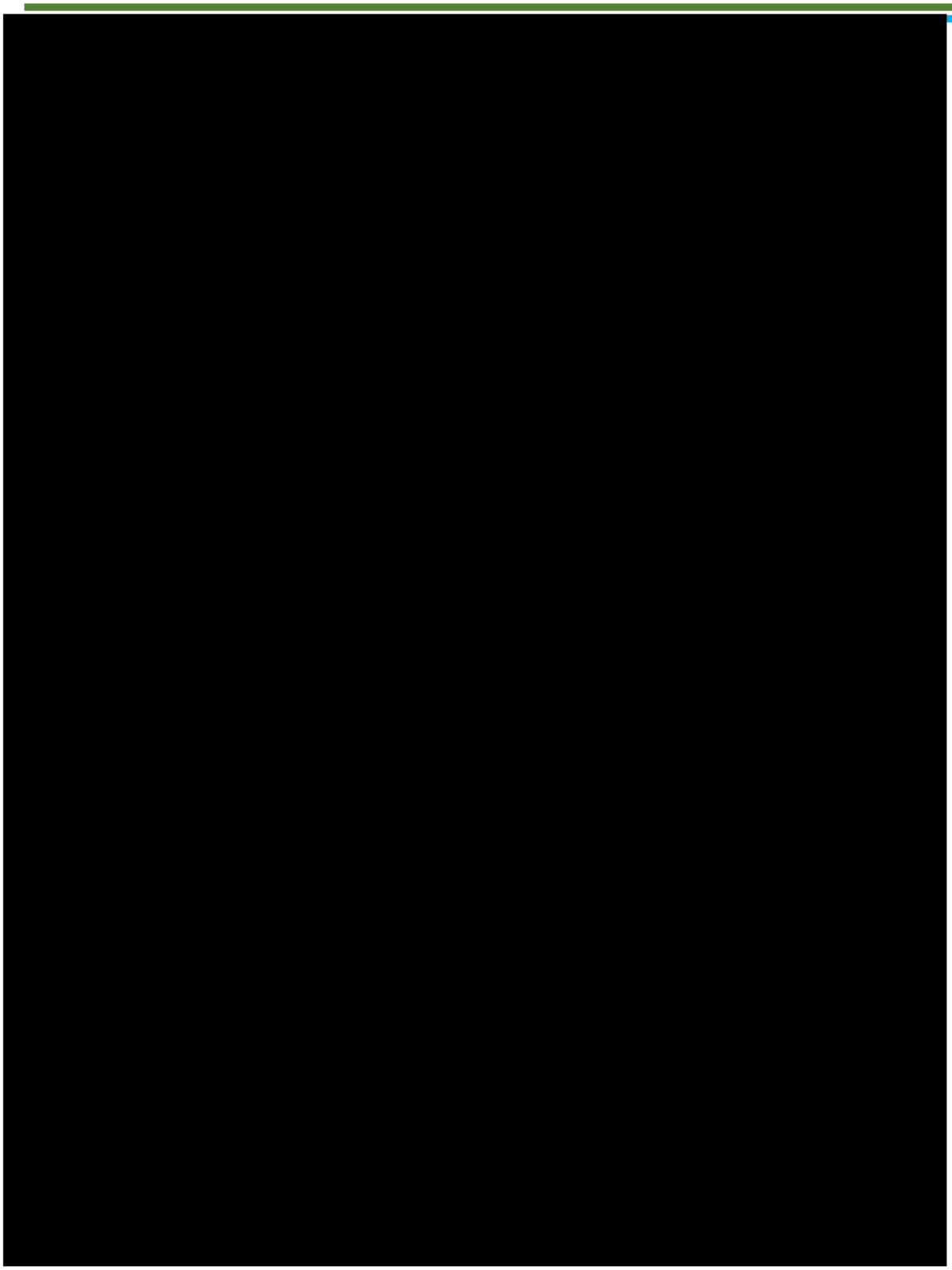
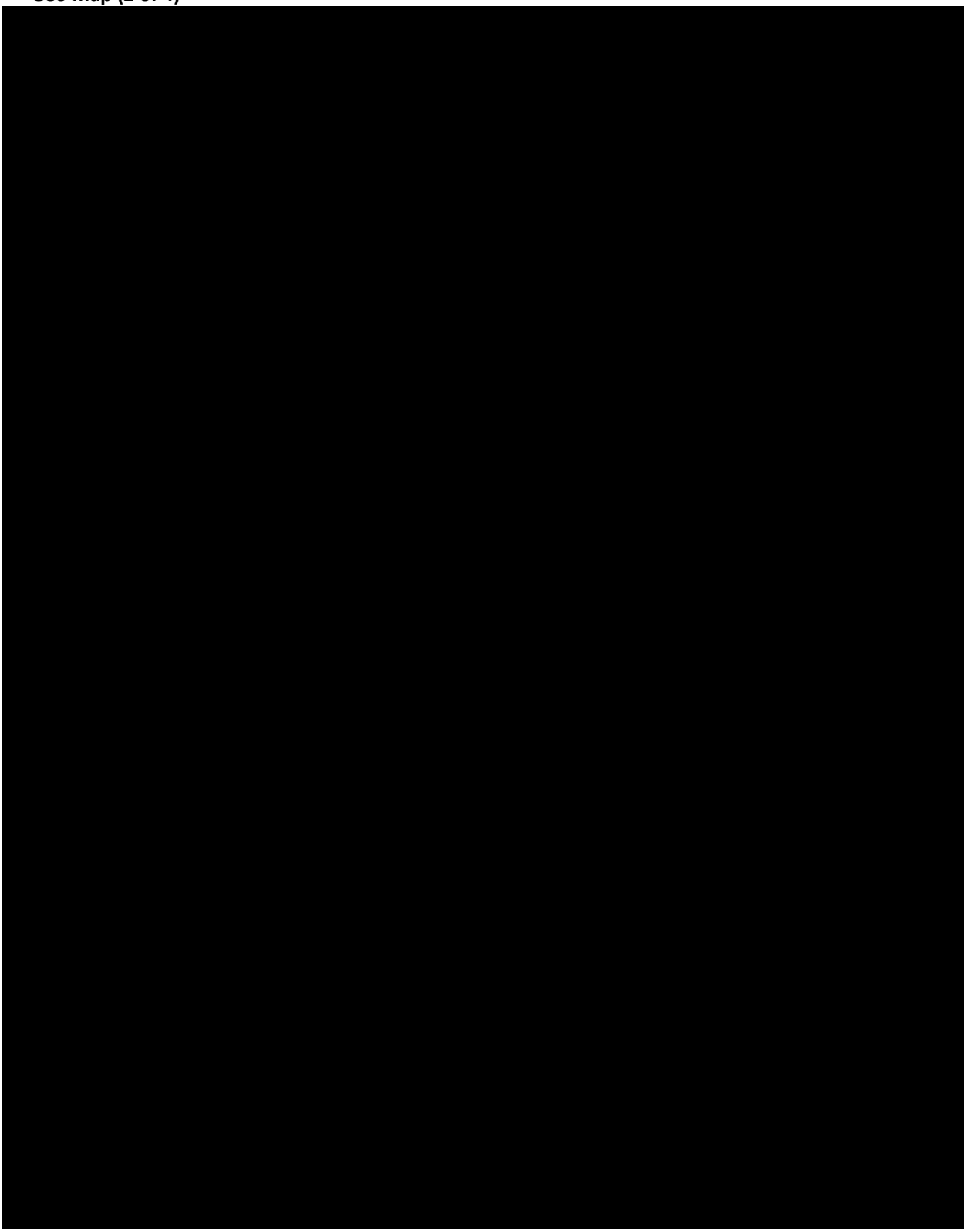
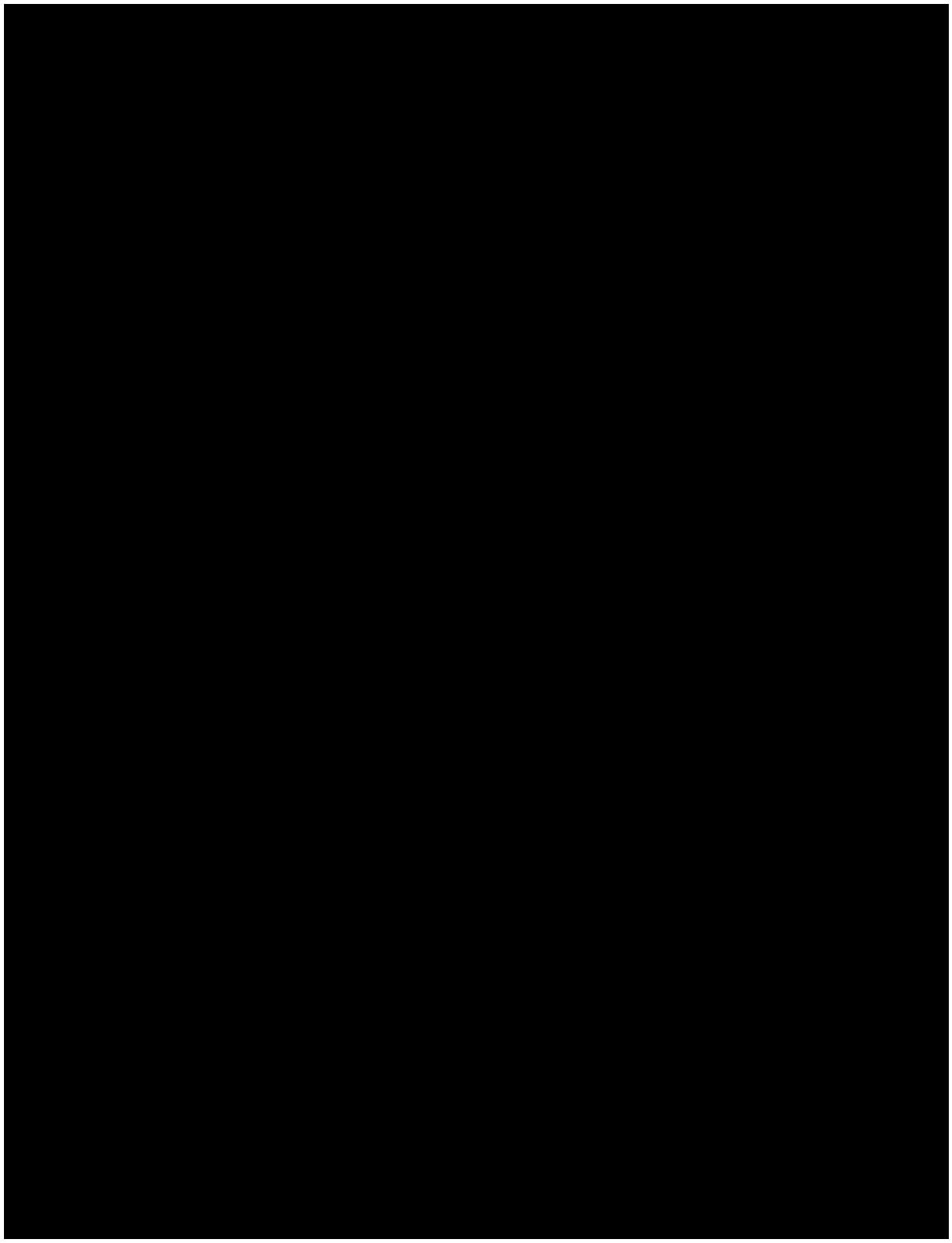
Attachment D – Geo map (1 of 4)



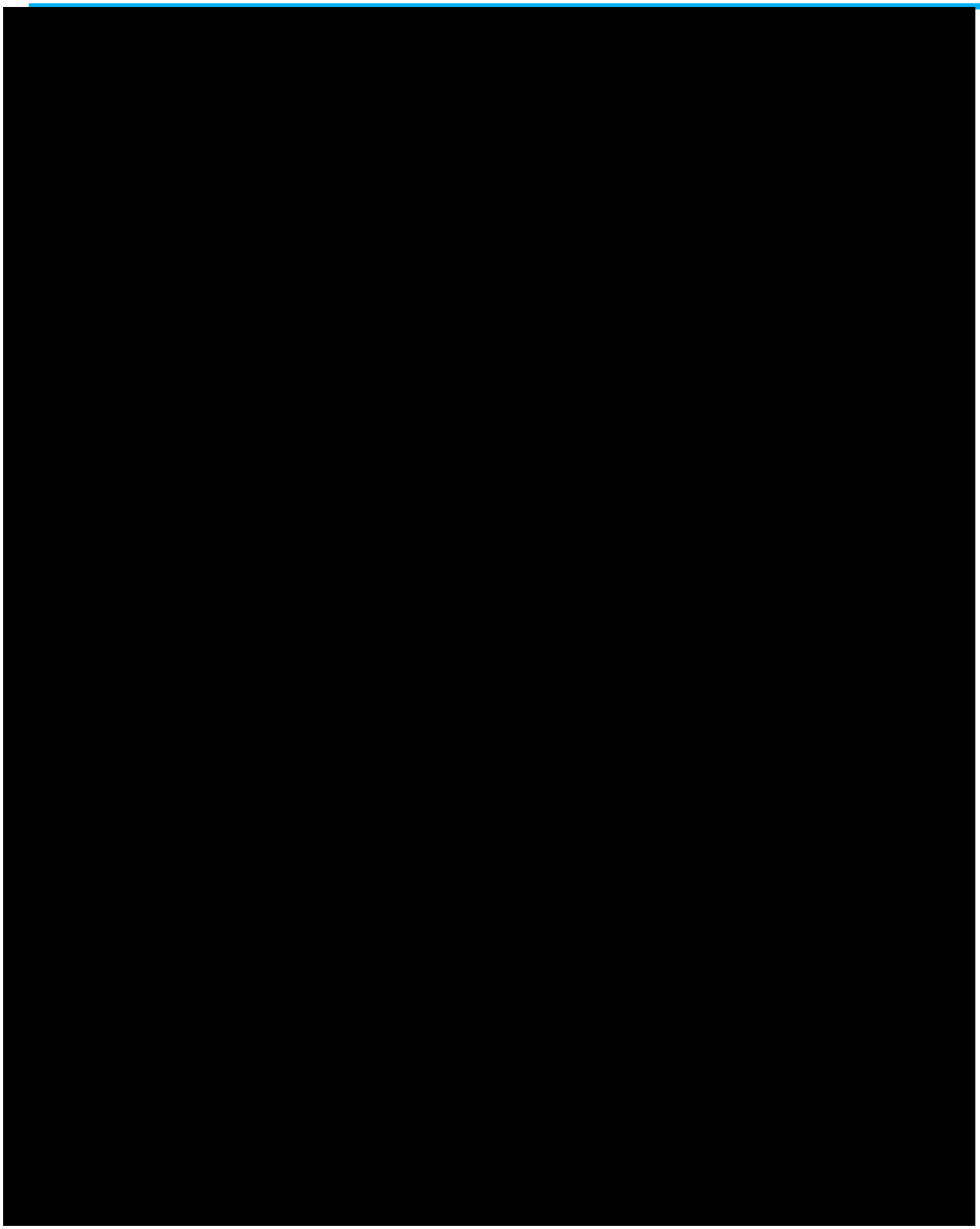
Geo map (2 of 4)



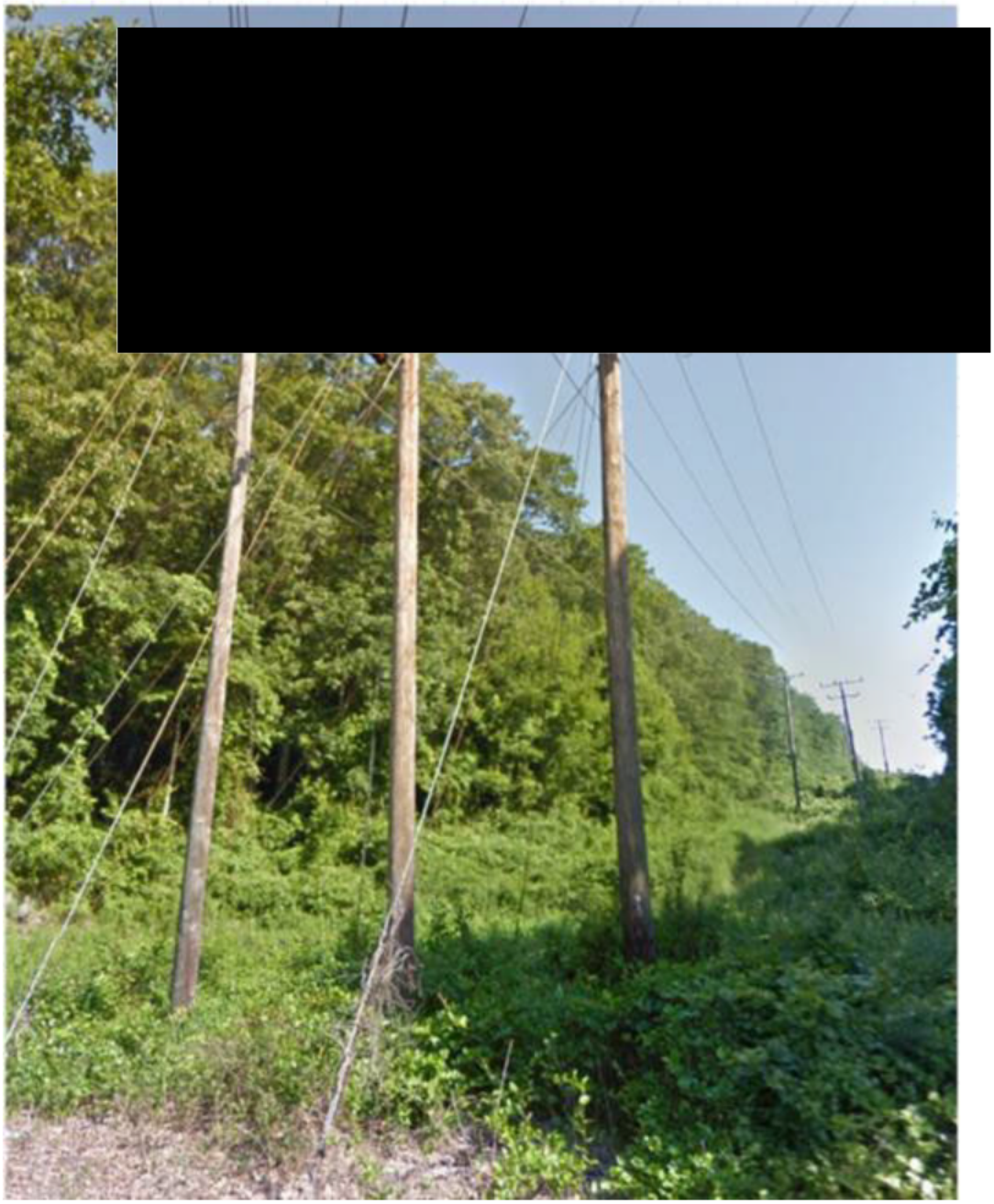
Geo map (3 of 4)



Geo map (4 of 4)



Attachment E – Google ROW Maps ([redacted])



[redacted].

[redacted]



ROW [redacted]



[redacted]

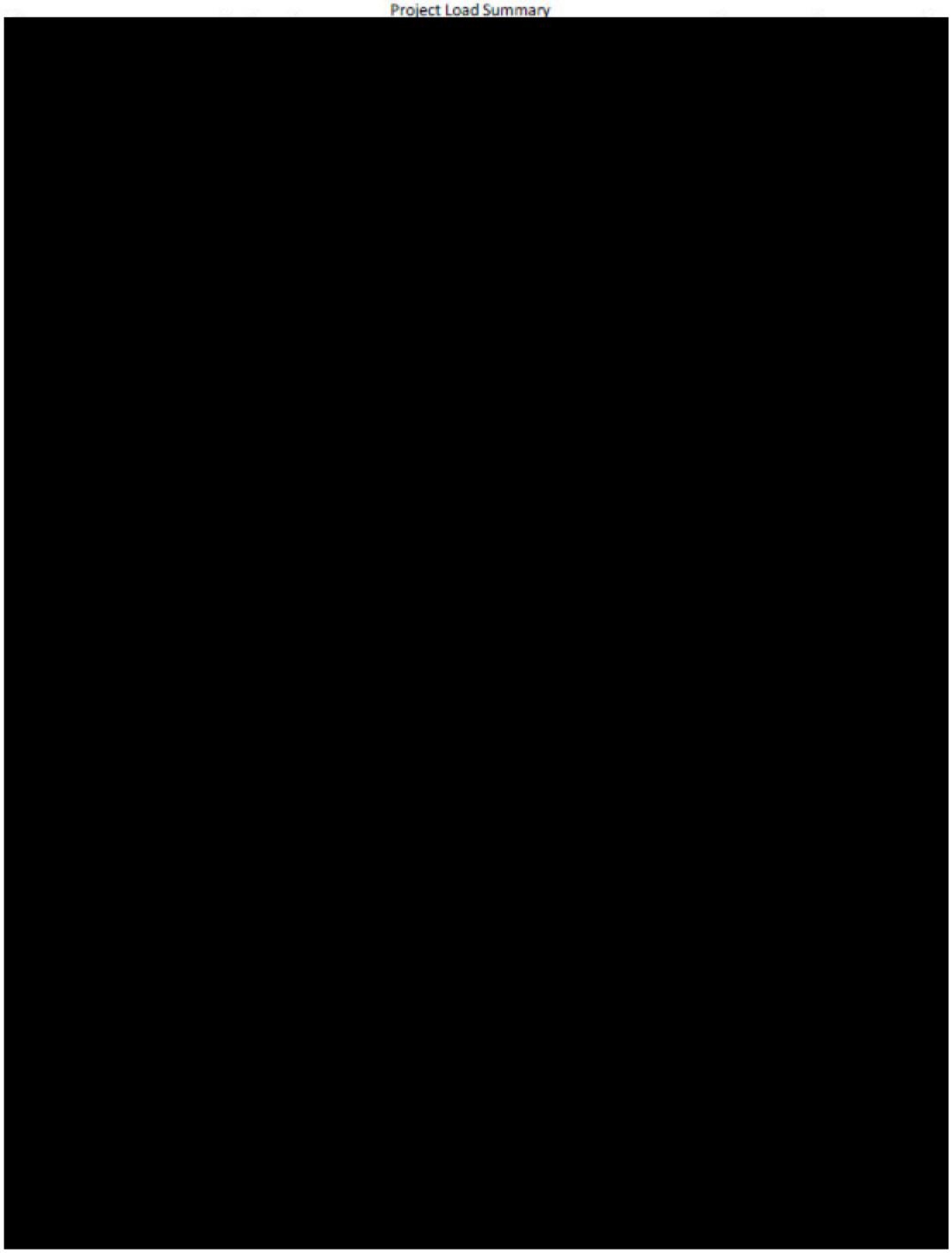


[redacted].

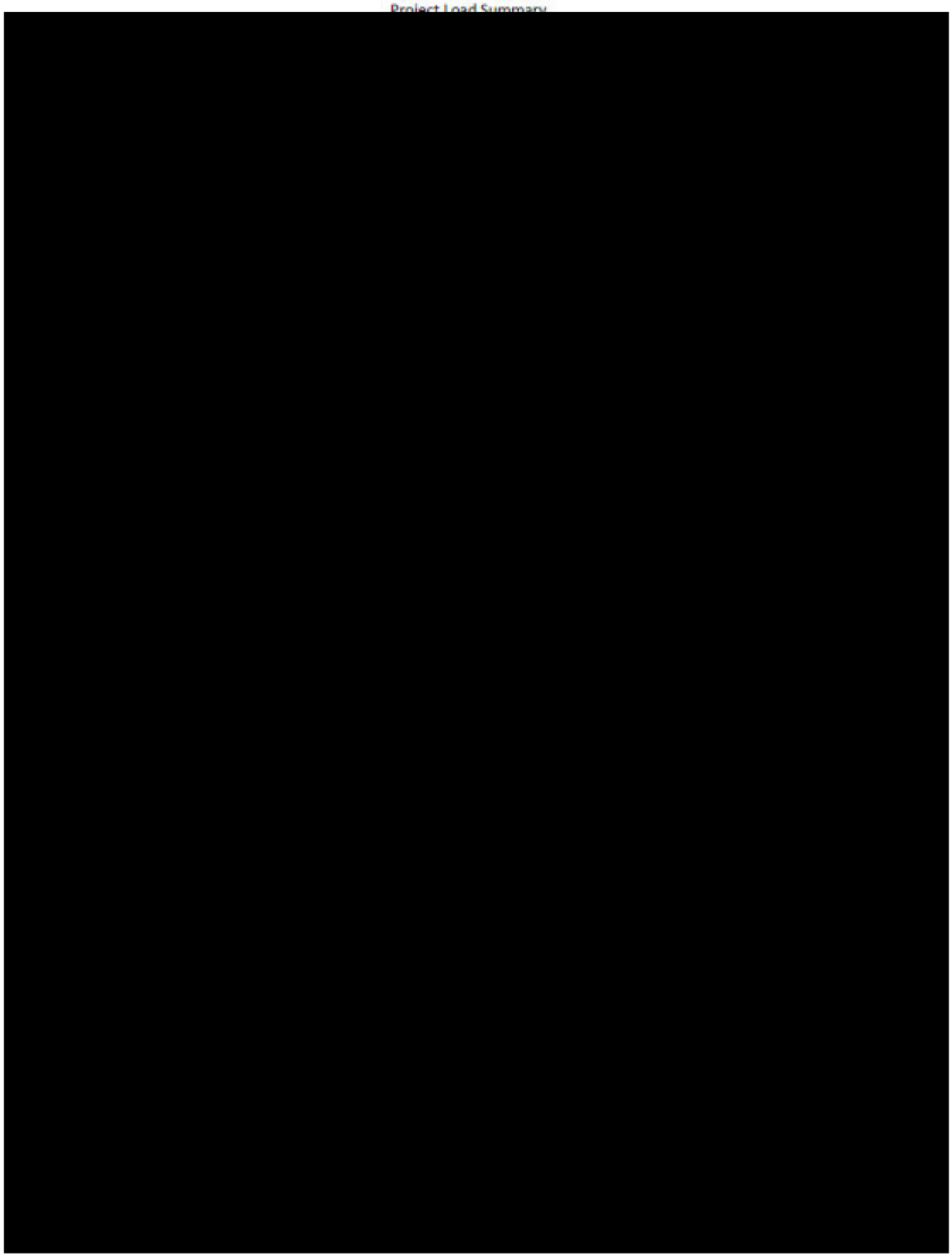


Attachment F – Load Sheet

Project Load Summary



Project Load Summary



Partial Funding PAF

EVERSOURCE
Project Authorization Form

Operations Project Authorization Form

Date Prepared: 2-19-21	Project Title [redacted]riple Circuit ROW
Company/ies: Eversource CT	Project ID Number: CD01308
Organization: Distribution Electric	Class(es) of Plant: Distribution
Project Initiator [redacted]	Project Category: Line
Project Manager: [redacted]	Project Type: Right of Ways
Project Sponsor: [redacted]	Project Purpose: Eliminate triple circuit pole line
Estimated in service date: 12-31-2023	If Transmission Project: PTF? N/A
Eng. /Constr. Resources Budgeted?	Capital Investment Part of Original Operating Plan?
Authorization Type: Preliminary Funding	O&M Expenses Part of the Original Operating Plan?
Total Request: $3,522k	Rev 2

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

[redacted]

JA-AM-2001-A Rev 2
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EVERSOURCE
Project Authorization Form



EVERSOURCE
Project Authorization Form

Project Costs Summary
Note: Dollar values are in thousands

	Prior Authorized	2021	2022	2023+	Totals
Capital Additions - Direct	$0	$1,252	$492	$131	$1,874
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ___%	$0	$293	$115	$31	$438
Total - Direct Spending	$0	$1,544	$607	$162	$2,313
Capital Additions - Indirect	$0	$683	$268	$71	$1,022
Subtotal Request	$0	$2,227	$875	$233	$3,335
AFUDC	$0	$44	$17	$5	$66
Total Capital Request	$0	$2,271	$892	$238	$3,401
O&M	$0	$81	$32	$8	$121
Total Request	$0	$2,352	$924	$246	$3,522

Financial Evaluation
Note: Dollar values are in thousands

Direct Capital Costs	2021	2022	2023+	Total
Straight Time Labor	$43	$17	$4	$64
Overtime Labor	$9	$4	$1	$13
Outside Services	$1,274	$500	$133	$1,908
Materials	$216	$85	$23	$323
Other, including contingency amounts (describe)	$3	$1	$0	$4
Total Direct Costs	**$1,544**	**$607**	**$162**	**$2,313**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$683	$268	$71	$1,022
Capitalized interest or AFUDC, if any	$43	$17	$4	$64
Total Indirect Costs	**$725**	**$285**	**$76**	**$1,086**
Total Capital Costs	**$2,270**	**$892**	**$237**	**$3,399**
Less Total Customer Contribution	$0	$0	$0	$0
Total Capital Project Costs	**$2,270**	**$892**	**$237**	**$3,399**
Total O&M Project Costs	**$82**	**$32**	**$9**	**$123**
Total Project Cost	**$ 2,352**	**$ 924**	**$ 246**	**$ 3,522**

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Technical Justification:

Project Need Statement

[redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

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[redacted]

Major Material:

- 15 Eversource poles
- 50 Frontier poles
- 6,600 feet of 556 AAC spacer cable (3,500 feet on [redacted], 3,100 feet on [redacted]
- 8,100 linear feet of 556 175mil TW (2,700 feet on [redacted]
- One 7 x 14 x 8 feet manhole
- 5,200 feet of 6" duct
- 1,400 feet of 1000 kcmil Cu 30 kV Cable
- 300 feet of 750 kcmil Cu 30 kV Cable
- 300 feet of 750 kcmil Cu 25kV Cable

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Background / Justification

[redacted]

Other Considerations:

[redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates

[redacted]

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Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	7-24-2020
Detailed Engineering	4-1-2021
Pole Sets [redacted]	6-1-2021
Extend 1 556 SC and 1 750Al aerial cable or [redacted]	7-1-2021
Install one manhole and new 8 6" Duct under I-95	6-1-2021
Install 2-1000Cu 30kV under I-95	7-1-2021
Install 1-750Cu 30kV and 1-750Cu 25kV under Railroad	10-1-2021
Reconfigure sources at [redacted] and energized [redacted]	11-1-2021
Set Poles on [redacted]	3-28-2022
Run 1 3ph 556 spacer cable on [redacted] (15L46) and reconductor [redacted] with 3ph 556 TW and Energized [redacted] and 15L70 backbones	6-1-2022
Remove Line in ROW north and south of [redacted]	6-1-2023

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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.	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	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	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
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. Most of this work will require system to be abnormal for any extended period of time.

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References



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

