

Application for Federal Assistance SF-424

* 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application	* 2. Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	* If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify): <input type="text"/>
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* 3. Date Received: <input type="text" value="08/16/2021"/>	4. Applicant Identifier: <input type="text" value="D5D9EAMCUFL9"/>
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5a. Federal Entity Identifier: <input type="text" value="88-6000039"/>	5b. Federal Award Identifier: <input type="text"/>
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State Use Only:

6. Date Received by State: <input type="text"/>	7. State Application Identifier: <input type="text"/>
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8. APPLICANT INFORMATION:

* a. Legal Name: <input type="text" value="County of Elko"/>	
* b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text" value="88-6000039"/>	* c. Organizational DUNS: <input type="text" value="0977612090000"/>

d. Address:

* Street1: <input type="text" value="540 Court St. Suite 104"/>
Street2: <input type="text"/>
* City: <input type="text" value="Elko"/>
County/Parish: <input type="text" value="Elko"/>
* State: <input type="text" value="NV: Nevada"/>
Province: <input type="text"/>
* Country: <input type="text" value="USA: UNITED STATES"/>
* Zip / Postal Code: <input type="text" value="89801-3515"/>

e. Organizational Unit:

Department Name: <input type="text" value="Community Development"/>	Division Name: <input type="text"/>
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f. Name and contact information of person to be contacted on matters involving this application:

Prefix: <input type="text"/>	* First Name: <input type="text" value="Sienna"/>
Middle Name: <input type="text"/>	
* Last Name: <input type="text" value="Stierman"/>	
Suffix: <input type="text"/>	

Title: <input type="text" value="Administrative Assistant"/>
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Organizational Affiliation: <input type="text"/>
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* Telephone Number: <input type="text" value="775-738-6816 ext 213"/>	Fax Number: <input type="text" value="775-738-4581"/>
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* Email: <input type="text" value="sstierman@elkocountynv.net"/>
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Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

B: County Government

Type of Applicant 2: Select Applicant Type:

Q: For-Profit Organization (Other than Small Business)

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

National Telecommunications and Information Admini

11. Catalog of Federal Domestic Assistance Number:

11.031

CFDA Title:

Broadband Infrastructure Program

*** 12. Funding Opportunity Number:**

NTIA-BROADBAND-INFRASTRUCTURE-PROGRAM-21

* Title:

BROADBAND INFRASTRUCTURE PROGRAM

13. Competition Identification Number:

NTIA-BROADBAND-INFRASTRUCTURE-PROGRAM-21

Title:

Broadband Infrastructure Program

14. Areas Affected by Project (Cities, Counties, States, etc.):

1234-Spring Creek Census Map.pdf

Add Attachment

Delete Attachment

View Attachment

*** 15. Descriptive Title of Applicant's Project:**

Elko County's Broadband Partnership with CC Communications for the Spring Creek Area

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="7,350,000.86"/>
* b. Applicant	<input type="text" value="11,025,001.29"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="18,375,002.15"/>

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

a. This application was made available to the State under the Executive Order 12372 Process for review on

b. Program is subject to E.O. 12372 but has not been selected by the State for review.

c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

Yes No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number:

Fax Number:

* Email:

* Signature of Authorized Representative:

* Date Signed:

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
2. Land, structures, rights-of-way, appraisals, etc.	\$ <input type="text" value="19,200.00"/>	\$ <input type="text"/>	\$ <input type="text" value="19,200.00"/>
3. Relocation expenses and payments	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
4. Architectural and engineering fees	\$ <input type="text" value="375,870.00"/>	\$ <input type="text"/>	\$ <input type="text" value="375,870.00"/>
5. Other architectural and engineering fees	\$ <input type="text" value="33,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="33,000.00"/>
6. Project inspection fees	\$ <input type="text" value="35,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="35,000.00"/>
7. Site work	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
8. Demolition and removal	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9. Construction	\$ <input type="text" value="12,216,845.40"/>	\$ <input type="text"/>	\$ <input type="text" value="12,216,845.40"/>
10. Equipment	\$ <input type="text" value="5,695,086.75"/>	\$ <input type="text"/>	\$ <input type="text" value="5,695,086.75"/>
11. Miscellaneous	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
12. SUBTOTAL (sum of lines 1-11)	\$ <input type="text" value="18,375,002.15"/>	\$ <input type="text"/>	\$ <input type="text" value="18,375,002.15"/>
13. Contingencies	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
14. SUBTOTAL	\$ <input type="text" value="18,375,002.15"/>	\$ <input type="text"/>	\$ <input type="text" value="18,375,002.15"/>
15. Project (program) income	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ <input type="text" value="18,375,002.15"/>	\$ <input type="text"/>	\$ <input type="text" value="18,375,002.15"/>
FEDERAL FUNDING			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c	Multiply X <input type="text" value="40"/> %	\$ <input type="text" value="7,350,000.86"/>

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Number: 4040-0009
 Expiration Date: 02/28/2022

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant:, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL Sienna Stierman	TITLE Administrative Assistant
APPLICANT ORGANIZATION County of Elko	DATE SUBMITTED 08/16/2021

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Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

* NAME OF APPLICANT

County of Elko

* AWARD NUMBER

* PROJECT NAME

Elko County's Broadband Partnership with CC Comm for SC Area

Prefix:

* First Name:

Sienna

Middle Name:

* Last Name:

Stierman

Suffix:

* Title: Administrative Assistant

* SIGNATURE:

Sienna Stierman

* DATE:

08/16/2021



Project Narrative

a. Executive Summary

CC Communications will leverage its existing network core, central office, middle mile, fiber, and conduit that is deployed to Palace PKWY in Spring Creek Nevada (Exhibit A) to serve all locations in Spring Creek Nevada depicted on Exhibit B. Residential and businesses are estimated using census data, map counts of structures, and data provided by Spring Creek Association (Exhibit C) to total 5,758 locations. This includes 5,568 households, 169 businesses, and 21 community anchors. Moreover, this area continues to see robust construction of residential lots, as well as suffering from a lack of service businesses, which over time should increase locations within the service area covered by the grant. The conduit placed along Lamoille HWY to Palace PKWY essentially extends down the center for the entire length of the service area. This conduit is in the process of being tied together, followed by placement of fiber, which will occur before the grant is awarded, and is not included in the cost projections. This conduit and fiber to Palace PKWY will be utilized to branch off to serve each location within the service area (no customers within the service area are currently served, and no census blocks within the service area have 25/3MBPS to every location). The Central Office is live and serving customers in the City of Elko using XGS-PON capable of speeds up to 10Gbps. The CO, network core, middle mile fiber, and conduit that will be leveraged to serve the grant area has been placed solely at CC Communications' costs of over \$2 million to date (Conduit and fiber along Lamoille Hwy between our CO in the City of Elko and Palace PKWY was placed at a cost of over \$800,000 alone). Costs to establish the CO, middle mile, and backbone to Palace PKWY are NOT included in the grant request or the attached calculation of costs for the service area (Exhibit D). These costs are NOT used in the calculation of 60% match that CC Communications proposes. CC Communications' proposed project is shovel ready, has a committed local contractor, and customers can immediately receive service by integrating them into our existing Elko network as soon as last mile infrastructure is placed pursuant to the grant.

CC Communications proposes to expand on its already deployed XGS-PON FTTH network that is serving City of Elko customers and passing hundreds of locations, while bringing more residents online each day. This grant would be used to deploy into the rural adjacent area to which CC Communications has an active FTTH construction project. Remaining capital investment to complete the grant area is approximately \$18,375,002.15. CC Communications would match 60%, resulting in a grant request of approximately \$7,350,000.86. This would result in \$1,289.70 in federal dollars spent per location passed in rural Nevada. Further, as housing and business construction in this area continues, the federal dollars per location passed would be reduced as CC Communications would build to new locations not yet identified within the proposed grant area. The XGS-PON system is capable of delivering 2.5Gbps to a location today, with a virtually unlimited ability to scale and expand. Through current ITU standards, 10GBPS speeds can be made available, upgradable to 40GB, as well as electronics that provide for point-to-point services as requested. GPON is the most commonly deployed FTTH solution for new fiber builds, and the focus of current research and development by manufacturers.



Elko County's Broadband Partnership with CC Communications for the Spring Creek Area

The project is estimated to take 36 months due to various factors. First, there is a massive labor shortage. Second, the service area does not allow for year-round construction with respect to plowing and trenching. The ground does not experience permafrost, but rather, gets large quantities of snow that saturates the ground such that digging and compacting become impracticable for several months each winter and early spring. This start and stop increases staging and mobilization time and costs. Permitting processes require that we complete all construction in a given section prior to moving on. We will work with the local permitting authority to complete all work that can be performed in winter/early spring, to expedite the project. This will include setting boxes and potentially completing residential drops, which are less weather impacted when compared with trenching and plowing RoWs. The third issue may be materials made with resin, fiber, and electronics as demand continues to outstrip supply due to COVID-19 and infrastructure spending. The estimated 36-month takes into account these factors, thus, to the extent we can mitigate these, the timeline may be advanced.

The requested award area is essentially broken into 4 subdivisions and some outlying properties: Tract 100-400(with Pleasant Valley Estates). These five areas will be served from One (1) OLT per area. Each OLT will be connected by fiber to the backbone already in place between the CO in the City of Elko and Palace PKWY. From the OLT, one (1) 4-way splitter will be set per 64 lots, and four (4) 16-way splitters will be set per 64 lots. Tract 100 = 2052 lots, Tract 200 = 1511 lots, Tract 300 = 414 lots, Tract 400 = 1575 lots, and 147 outlying. This results in 5,758 lots. Calix Active ethernet will be deployed for outlying locations to ensure XGS-PON loss budget is never exceeded.

From all OLTs, multi-duct will be placed approximately 1,510,080 linear feet to reach all locations with 762,780 linear feet of 288F backbone and 655,040 linear feet of 48F distribution. An additional approximately 162,00 linear feet of 2F drop will be placed. Fiber will be placed in 917,040 linear feet of 4-way 16/13 multi-duct, 593,040 2-way 16/13 multi-duct and 162,000 1-way drop duct. Based upon the current number of locations, CC Communications will initially deploy ninety (90) 4-way splitters and three hundred sixty (360) 16-way splitters. Fiber count placed, and use of multi-duct, allows for 12 threads to be dedicated to Elko County for their exclusive use, as well as further expansion by blowing additional fiber.

CC Communications will start the project after the bid award as soon as weather permits, with the expectation of drop conduit, drop fiber, ONTs, OLTs, and boxes starting January 1, 2022. Main construction (placement of multi-duct) will begin in Spring 2022. CC Communications will divert stockpiled materials to any grant funded job with a deadline, as well as provide cash bonuses for productivity, hiring, and retention for a grant-funded jobs. Inasmuch as CC Communications is proposing to match 60%, such practices will be covered by CC Communications.

The attached pro forma and sales projections indicate the sustainability of the project, while being based on a 50% take rate. Although the take rate is based on an extremely conservative estimate given these customers only have copper and WISPs available today, the projections of ARPU is based upon CC Communications' actual experience with FTTH deployments in rural Nevada.



b. Description of Covered Partnership

Elko County and CC Communications have agreed to enter into a covered partnership in the application and possible award of funding from the NTIA BIP grant. Both parties agree to work in good faith to manage this grant as well as work towards the preparation, construction, maintenance, and successful deployment of broadband infrastructure in the proposed areas.

Elko County's Qualifications

Elko County is prepared to manage this grant if awarded the funds. The County has managed multiple grants over the years for both local programs and communities. Almost every year the County manages a grant through the CDBG program and have also worked with the USDA on grant projects. Sienna Stierman, Administrative Assistant in Elko County's Community Development, will oversee all necessary needs concerning the grant. Elko County's manager, Amanda Osborne, has and will continue provide support and guidance throughout the process. Elko County's Board of Commissioners approved the application of this grant to move forward alongside CC Communications on commission meeting August 2, 2021.

CC Communications' Qualifications

CC Communications was the first FTTH provider in rural Nevada, and the first to deploy a GB service in rural Nevada. CC Communications' incumbent service territory is the only rural service territory in Nevada not identified as qualifying for the NTIA BIP utilizing the referenced M-Lab Median Speeds Fixed Broadband Below 25/3 MBPS (County Level) [Indicators of Broadband Need \(arcgis.com\)](#). Our long record of successful FTTH design and deployment has been achieved utilizing a combination of our internal team for outside and inside plant design, and CALIX professional services. The construction side of deployment has been successfully achieved longer than any provider in rural Nevada through use of internal splicers and installers, combined with construction services from Elko founded Northern Nevada Excavation (NNE) since 2003. NNE has placed more cable in the ground in Elko Nevada than any other contractor while performing work for the power company and incumbent copper provider. They have also placed more linear feet of fiber in the area adjacent to the grant service area, as we established our middle mile, CO, and initial FTTH customers in the City of Elko.

CC Communications controls the most route miles of fiber, through ownership or long-term IRU, in Nevada. This network spans from Fallon, NV to Las Vegas including portions of I80, Route 50, and Route 95, and Route 395. This has already been integrated with DWDM between Elko and Reno, as well as Elko and Salt Lake City.

Qualifications and Experience of Key Personnel

CEO Mark Feest has over 20-years' experience in telecommunications, over which time the largest deployment of fiber to the home in rural Nevada has taken place. Additionally, Mr. Feest has overseen the expansion of fiber routes covering over 700 miles through some of the most



Elko County's Broadband Partnership with CC Communications for the Spring Creek Area

rural areas of the state while anchoring in Fallon, TRIC, Reno, Las Vegas, Carson City, and Salt Lake City. Upon becoming CEO, Mark undertook a goal to create a rural fiber network that would allow all communities to access the backhaul needed to deploy robust FTTH services and reach the speed standards set by CC Communications in Churchill County. Since that time, CC Communications has expanded its fiber footprint from 60 middle miles to over 700 middle mile route miles, providing backhaul to many cell towers, WISPs and facilities based broadband providers, while also reaching remote schools, libraries, and tribal property. The strategy to defray backhaul construction costs for providers, through partnering with Switch Data Centers, has led to robust opportunities in dense wave division multiplexing (DWDM) services. While Mark started as a regulatory attorney years ago, he has sought to enhance his knowledge of the telecommunications ecosystem through obtaining an MBA from the AACSB accredited Indiana University, Kelly School of Business, and a Masters in Telecommunications from the Accreditation Board of Engineering and Technology/AACSB Oklahoma State University. Mark relies heavily on experts both inside and outside of CC Communications. Thus, timelines and expectations are thoroughly vetted with Elko construction experts such as NNE, inside plant engineers, CALIX professional services, and Outside Plant Engineers. Prior to law school, Mark served five years five months in the U.S. Army after having his service time extended during the first Gulf War.

For each additional resume attached, the individuals all played essential roles in the first deployment of FTTH in rural Nevada, the first 1Gbps customer in rural Nevada, and the learning curve to understand what works on paper and what works in the field.

Stewart Nichols is Project Management Institute certified in project management and has been an Outside Plant Engineer or lead OSP Engineer for every FTTH project CC Communications has performed.

James Nugent is Project Management Institute certified in project management and has decades of experience project managing jobs for various telephony and broadband companies in Northern Nevada.

Elizabeth Orozco is Project Management Institute certified in project management and certified in ITIL foundations. She leads our project management office and service delivery group. It is



Elko County's Broadband Partnership with CC Communications for the Spring Creek Area

her team's job to continually improve all practices and processes to ensure that how we do things leads to the best possible customer experience.

NNE's Qualifications

NNE has been our contractor since around 2003 and has placed more fiber in the ground in rural Nevada than any other company. They were founded in Elko, NV and opened a satellite office in Fallon due to our FTTH deployment. They have more experience working in Elko than anyone, and we rely on their expertise with respect to setting realistic goals and timelines.

Calix Professional Services' Qualifications

Calix Professional Services. CC Communications utilizes industry leader Calix equipment from the CO to the customer premise. All fully supported by the manufacturer and professional services. CC Communications does not use unsupported grey market equipment or mix and match vendors to save money. Rather, all customers whether AE or XGS-PON are managed over the AXOS SMx platform fully supported by the manufacturer.

i. Table of Funded Project Participants

Please see Exhibit E.

ii. Resumes

Resumes are attached.

c. Proposed Covered Area

All of Spring Creek, including the SCA, Pleasant Valley Estates, locations depicted on the map (Exhibit B), and future construction within the grant footprint. This includes approximately 5,758 locations, however, the commitment is all locations within the map boundaries irrespective of growth or lack of identification of a specific location. The sizing of the system itself (fiber, empty conduit, and cabinet sizes) allows for expansion well beyond 4x current locations.

Speed Tiers

The speed tiers would match the network already deployed in parts of the City of Elko and all of Summit Estates. This network provides advertised speeds up to 1Gbps, however, the technology deployed can provide 2.5Gbps by swapping out the small customer premise equipment (no change anywhere else in the network is needed to do 2.5Gbps). Our vendor, Calix, provides 10GPON (10Gbps), 40Gbps, and 100Gbps equipment. Furthermore, the system is designed to allow for XGS-PON, active ethernet end users, and DWDM. As such, by changing the lasers at either end of a fiber, 400GB capabilities are possible. (Note that CC Communications has fiber between data centers in Tahoe Reno Industrial Park (TRIC) and Las Vegas and the largest



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DWDM connection ordered is a 100GB). Speed packages offered in Elko today follow. However, as customer demand changes, it is clear we have flexibility to meet any need.

Pricing & Packages

Bandwidth **	Monthly Rate
100/100 MBPS	\$49.99
150/150 MBPS	\$59.99
250/250 MBPS	\$79.99
500/500 MBPS	\$99.99
1GB/1GB	\$149.99

Unlimited Residential VoIP: \$29.99 (no contract/no additional fees)

Installation Charge: \$75.00 (Waived for every customer so far. We reserve the right to charge for inside wiring owned by the customer.)

CC Communications also offers various managed Wi-Fi solutions.

Substantive Terms & Conditions are as follows:

No contracts; 2 – year price lock; customer must adhere to then current Internet Acceptable Use Policy; CC Communications will not collect individual data except when compelled by law or for use in network management or trouble shooting; CC Communications will not block lawful Internet traffic; CC Communications will never sell customer data; Customer will be required to sign an acknowledgment of plan selected, price per month, and Internet AUP; Customer may be subject to credit check and deposit requirements.

SLA: If selected, CC Communications would adopt the terms and conditions of the SLA provided in the grant.

CC Communications pricing and plans are far superior to most rural Nevada broadband prices, and are well below pricing currently in Elko, especially when speeds are compared.

Performance Standards:

Services will comply with proposed FCC performance testing measurements for speed relative to subscribed service. Performance standards are measured at demarcation point. All service except 1GB is provisioned to account for overhead. There is 24/7 phone support and trucks roll within 24 hours, same day is the goal. Over 60% of trouble calls are resolved over the phone. The most common single reason for a call is customer owned equipment/customer education. CC Communications utilizes a smartphone app that allows the customers to show our technicians the issue (TechSee). Credits provided in 1/3 of a month increments for failure to meet SLA.

- a. Standard Uptime: 99.5%



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- b. Jitter: 5ms
- c. Latency: 25 ms last mile
- d. Packet Loss: .25%
- e. Guaranteed Internet bandwidth: 2 to 1

The Spring Creek Project is costly on a per home passed basis to begin with. This high cost rural has been exacerbated by a significant lack of labor and strong upward labor costs, fuel costs, and material costs. Each of these will increase as many infrastructure projects expand, further delays caused by the COVID-19 Delta Variant, and continuing fuel and material costs. Moreover, taking on the entirety of the Spring Creek census blocks as depicted in the attached map, includes several outlying ranches and homes.

The project will cover approximately 5,758 locations spread over 58.8 square miles, for a density of 232.6 people per square miles. This will result in approximately \$15,750,602 in outside plant materials and construction, \$2,624,400 in customer premise equipment and install labor. This is in addition to over \$2 million already expended to establish a central office and the electronics that will support these customers from that location in the City of Elko (these costs are not included in the project for purposes of the grant). This results in razor thin margins that argue against the project without some amount of grant money. Moreover, expediting the construction would be supported by grant money what would offset the rising costs of labor, and allow the project to come to a quicker conclusion while maintaining the service prices indicated.

d. Proposed Served Area

All of Spring Creek and Pleasant Valley Estates are eligible for the NTIA BIP Grant. Therefore, all the census blocks of Spring Creek will be served as depicted on Exhibit B. Between the fiber placed and the multi-duct, CC Communications can scale to meet all future growth potential.

e. Statutory Funding Priorities

CC Communications proposes serving 100% of the households in the eligible service area. Therefore, our proposal addresses the funding priority found in Section 905(d)(4)(1) 100%.

CC Communications proposes to provide broadband service to a city with a population less than 50,000. Therefore, our proposal addresses the funding priority found in Section 905(d)(4)(2) 100%.

If awarded the grant, CC Communications would be committed to building out to all locations within the 58 square miles of the community, which at the density of 232 people per square mile is quite rural. Whether the proposal addressed in Section 905(d)(4)(3) with respect to 'projects in areas that are the most rural' will only be known when applicants across the U.S. are received. As for the 'cost-effective' factor, this is understood to be a cost per location that the grant covers. CC Communications will match 60% of the total cost of the project, while only requesting 40% to be covered by the grant. This match is possible due to already deploying middle mile infrastructure and a central office in the adjacent community. Moreover, CC Communications



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expects to achieve some economies of scale in the region that allows the cost per location to be driven down from a grant award perspective.

CC Communications has proposed an XGS-PON system that is capable of delivering 2.5 Gbps out of the gate, with immediate capabilities to expand to 10GPON (10Gbps). The 1 to 16 fiber split allows creation of point-to-point and active customers when such services are needed or requested. Our XGS-PON solution has ITU standards and equipment for 10GB, 40GB, and 100GB. Moreover, XGS-PON is actively being upgraded and developing new standards and technology. Calix, the industry leader in GPON manufacturers both AE and GPON, they state that, 'the technology will advance faster than AE.' In short, CC Communications has already deployed this technology and architecture in Elko and far exceeded the NOFO 100Mbps requirement. Therefore, this proposal exceeds the NOFO requirement of 100Mbps/100Mbps.

Section 905(D)(4)(5) 'Any other covered broadband project that meets the requirements of this NOFO'. Given that CC Communications' proposal meets or exceeds (1) and (2), (3) can only be objectively determined when compared with other applications, CC Communications far exceeds (4) and (5), it is clear that our proposal is competitive.

f. Project Beneficiaries, Service Area Level of Need, Project Sustainability, and Expected Outcomes

Spring Creek is a very rural area which has not had the broadband infrastructure to keep up with the growing population and demand of the utility. CC Communications' will deploy broadband to 100% of locations within the proposed service area. That includes all households, businesses, and community anchor institutions, each able to receive speeds up to 2.5Gbps on the proposed network, and scalable to 10GB. (Note that 2.5GB ONT is not the standard premise equipment. Standard premise equipment is up to 1 Gbps, nevertheless, the network can provide 2.5Gbps with a change to ONT at the premise. 10GB, 40GB, and 100GB can all be provided to customers under ITU standards as demand requires). This will fully meet the requirements specified in the NOFO and have the highest possible impact. Together with the fact that CC Communications will 60% match, the cost per location passed will provide great value to the evaluators and increase the level of impact per dollar spend by the program.

CC Communications has not received support for the proposed service area from any federal or state source, which increases the level of impact of this grant.

Given that CC Communications is already building in the City of Elko, passes hundreds of locations and is turning more up each day, together with the fact that the system is adjacent to the grant area, the likelihood of success increases the level of impact for each grant dollar spent.

CC Communications has already established middle mile facilities capable of transporting all Internet traffic out of the City of Elko and Spring Creek for a period of time well in excess of the NOFO timelines. Thus, the NOFO's limitation on middle mile costs, with the encouragement to 'leverage middle mile' and focus on last mile costs, aligns with the stage of construction the company is currently on.



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Given that CC Communications meets all the criteria and holds the advantages of (1) an established middle mile, and (2) actual FTTH customers served adjacent to service area proposed, it appears CC Communications is in the best position to successfully utilize the grant dollars.

g. Deployment

The project will place fiber to currently constructed locations identified within the Spring Creek Census Micro Area as depicted on Exhibit B. Prior to applying for this grant, CC Communications participated in a joint facilities placement with a fixed wireless provider in the areas adjacent to the grant area. This resulted in both companies obtaining fiber infrastructure while only cutting the street in the City of Elko one time. This arrangement has allowed CC Communications to more rapidly deploy FTTH to residents of the City of Elko, while also allowing the fixed wireless provider to bring fiber backhaul to some of their towers. CC Communications will continue to work with providers of fixed wireless services to deliver fiber to their towers, resulting in a robust 5G wireless offering and competition within the market.

The XGS-PON solution already deployed in the City of Elko by CC Communications can provide up to 2.5Gbps. XGS-PON is scalable to speeds up to 40Gbps, with 100Gbps standards in the vetting process. (notwithstanding this, the network deployed allows the use of the Calix E7(2) card that provides 100Gbps dedicated ports if needed). XGS-PON conforms to the ITU G.984 standard which includes amendments for Extended Reach XGS-PON. G.984 was developed to support higher data rates compared to earlier PON technologies like BPON and EPON. Split ratios of 1:16, as well as the use of multi-duct, have created a network design that is capable of moving customer to no splits in the event future demand requires.

A statement from Calix, the manufacturer CC Communications uses informs, 'GPON also provides better QoS and scalability compared to its predecessor technologies. With features such as DBA, GPON has become the solution of choice for Gigabit service providers worldwide.' At the most recent Calix user conference, over 75% of training and breakout session were XGS-PON sessions, not active ethernet. The reason for this is the majority of customers are new utilizing XGS-PON going forward. The product roadmap is overwhelmingly XGS-PON, due to Calix's largest customers, such as Verizon, deploying XGS-PON. CC Communications will utilize a combination of Calix E3, E7, and/or E9-2 GPON technology for all active and passive fiber facilities. Customer premise equipment will be Calix Giga-Spires with net valet customer interface. All customers will be placed on the Calix Cloud support platform. ONTs are installed at the subscriber premises. The ONT is the demarcation point of the GPON service and is connected to the OLT through the PON. The residential installations can have ONTs that include home gateway/router, VoIP ports, and Wi-fi functionality.

CC Communications will utilize its existing fabric core, which will be initially connected via two 10Gig links to the Internet Gateway either in Reno, TRIC, and/or Las Vegas. That core will also be connected to the Silver Street POP via two 10Gig links. Utilizing dark fiber deployed by CC Communications, the company will provide two 10Gig links to Spring Creek, landing in an ODC 2000 (OLT) cabinet. The ODC 2000 cabinet will house Calix GPON blades capable of serving up to 8192 subscribers (the cabinet is approximately 735 (H) x 48.5 (W) x 48.5 (D)). The cabinet will support deployment of Calix cards that allow for Active Ethernet where needed. A 432-



count fiber cable will be utilized as the middle mile backbone. Additionally, the conduit placed is multi-duct, allowing for adding more than 4x's the existing fiber count. Links from the Calix GPON blades housed in the ODC 2000 will be distributed initially to approximately 5 passive cabinets that will be placed evenly throughout existing developments, and in mutually agreeable locations. The GPON cabinets in the housing and business developments are passive, which means they do not require power. This provides significant flexibility in the size and number of cabinets. Of course, the larger the cabinet the fewer that need to be placed. CC Communications proposes initially placing one cabinet per existing phase. The passive cabinets will contain Calix splitters that will take one fiber from the ODC 2000 per 4-way splitter. The passive cabinets will be sized based upon the given phase's number of locations and the Spring Creek Association's preferences; however, cabinets could serve up to 1280 subscribers. Tracts 100, 300, and 400 are in closer proximity, which will allow a cabinet from the medium sized tract to also serve the edge of another tract.

Given that CC Communications has middle mile adjacent to all tracts, as well as all BLM and NDOT permits, we intend to bore the Lamoille highway into Tract 200 first, then proceed to the three other tracts. A bore will be required at tract 200, which is already permitted. Construction into each tract will follow the same plan. Permit the maximum number of streets allowed by the permitting authority, place conduit and fiber to the respective passive cabinet, place conduit and fiber in the permitted streets (including boxes and peds), complete drops and CPE. Due to limited ability plow and trench in the winter/spring in Spring Creek, we will set cabinets and proceed with drops and CPE in months when plowing and trenching cannot be achieved. This process is intended to result in customers being turned up on a rolling basis, as network intelligence will be up for each tract first.

Network Capacity

Each splitter is fed with 10GB link per 64 subscriber ports. Calculated on 64 subscribers per 10Gig, Network oversubscription ratio of 6.4 to 1 at 1Gib, and .64 to 1 at 100MG. Oversubscription rate calculations are based on (1) experience indicates that subscribers will not utilize 1GB pip constantly, as many will have subscribed to a lower rate, and (2) congestion only occurs when total bandwidth requested at any given millisecond (ms) exceeds the uplink. Thus, we historically calculate this type of system by basing the ration on the average usage of the subscriber at 100MB, and the oversubscription rate of 57.6 to 1 on a 1GB ring, which has consistently produced speed test results within the parameters of the FCC's performance testing requirements (note that not every blade is full and most customers are at 100/10 or 150/50). Notwithstanding that fact, we are in the process of upgrading all rings to 10GB per 576 subscribers to reduce ration to 5.76 to 1 at maximum capacity on an active system. In this case we would initially deploy the one 10GB link per 64 subscribers with an over subscription rate of .64 to 1 at 100MB or 6.4 to 1 at 1GB. Note that this assumes 100% of the ports are utilized. Given that cabinet capacity exceeds total homes in Spring Creek, this is impossible. Excess fibers will be placed at each cabinet, allowing for additional fiber 'rings' to be created to dilute the number of subscribers per 10Gig link in the event testing shows congestion.



h. Major Project Activities and Timelines

CC Communications has already completed the heavy lift by establishing the Central Office, Internet Links, middle mile, and backbone all the way to Palace PKWY, as well as secured all NDOT and BLM permits. As such, based upon the attached Network and System Diagrams (Exhibit F), we will now simply build from the backbone on Lamoille Highway into each tract, adjacent business, Pleasant Valley Estates, and outlying properties (building off of the nearest Tract fiber). Permitting with the County and SCA has already begun, and we are following their guidance on number of streets to permit at a time. We currently have all Nevada Department of Transportation permits required, as well as all BLM permits required. The project is not dependent upon permits or grants of rights from third parties such as power providers. CC Communications holds permits in the first phase (Tract 200) and has already worked extensively with the permitting authority to determine appropriate timelines for issuance of next phase permits. It is the permitting authority's preference that permits are issued in phased approach as to avoid overly impacting the RoW and traffic. As depicted in the attached milestone spreadsheet (Exhibit G), we will permit with the County and HOA on a monthly basis for work that will be started within 60 days of permit application. To date, the turn-around time on permits has been about 3 days. We will work from tract 200 through 400; 200, 400, 100, 300, Pleasant Valley Estates and outlying areas (Exhibit H, Spring Creek Tracts). The attachment depicts the four Tracts (100-400) within the HOA, as well as Pleasant Valley Estates. To the far right it depicts Summit Estates, which is not within the grant area, however, CC Communications has already deployed FTTH to Summit Estates. This grant project would extend service over the Summit to an additional 5,758 locations within the 58 square mile service territory.

The attached chart (Exhibit G) indicates that in the months that CC Communications can plow or trench we will complete 6.5 miles per month and place 6.5 miles of fiber. Given that we hold permits for phase 1, this can start as soon as weather permits. In the event that we cannot plow/trench main-line or distribution conduit, we will seek to start placing drop conduit in January. This will be at the discretion of the permitting authority. CC Communications also holds permits for setting OLTs, which will start January 1, 2022. The attached schedule of milestones will require setting boxes, splitters and completing splices at around 550 per month. ONT/NIDs will be placed as customers order service, and we use an average of 50 per month in winter months and 100 per month in construction months. Given that ONT/NIDs can be placed 12 months per year, customer demand will fully dictate that construction.

i. Physical Project Area and Surroundings

The project area is high desert with private developed property surrounded by BLM property. As noted, all BLM permits have already been obtained, and those permits were only needed to establish the middle mile route between the City of Elko and Palace PKWY. The construction remaining is on private property and County RoWs, and we do not expect any further environmental or historic preservation issues. The project area is primarily rural HOA neighborhoods and businesses adjacent to a State highway. CC Communications has acquired all NDOT and BLM permits required for the project. At this time CC Communications can reach all locations via permitting with Elko County and Spring Creek Association. CC Communications



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contracts with a PE firm to deliver final prints for all permits. This firm ensures compliance with environmental and historic preservation requirements applicable to a possible award. CC Communications has never been cited for violation of such requirements. CC Communications coordinates with NNE to ensure compliance. Again, as the contractor that has placed more cable in the ground in Elko than anyone, their track record on this is impeccable.

j. Support Provided

CC Communications has not received any type of grant, loans, or loan guarantees from a State, Federal Government or the Secretary of Agriculture under any programs, acts, or funds.

k. Labor Standards, Labor Agreements, and Community Benefit Agreements

CC Communications' craft employees are covered by AFL CIO Communications of America Collective bargaining Agreements. All new hires would be advertised in Elko. To date we have hired one CC Communications employee out of two interviews. NNE has hired several new employees for the construction project in Elko and Spring Creek backbone. They continue to seek local employees, as does CC Communications. We require all employees to reside in Elko County, preferably in the service area. NNE employees are local and salaries are commensurate with local wage rates and remain in the community. CC Communications would use grant money to develop an incentive plan to attract new employees and award them for progress. CC Communications has a fulltime safety and training coordinator to ensure employee safety and competence. Our coordinator works closely with NNE's safety coordinator to inspect job sites and ensure a safe work environment.

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	N	Half 2, 2022
1	🚀	Tract 200	195 days	Mon 1/3/22	Fri 9/30/22											
2	🚀?	Permits														
3	🚀?	Plow/Trench														
4	🚀?	Fiber-														
5	🚀?	splitter/splices														
6	🚀	Drops - Place 168	22 days	Mon 1/3/22	Tue 2/1/22											
7	🚀	OLT Placement - 200 each	22 days	Mon 1/3/22	Tue 2/1/22											
8	🚀	ONT Placement - 50 each	22 days	Mon 1/3/22	Tue 2/1/22											
9	🚀	Drops - Place 168	20 days	Tue 2/1/22	Sat 2/26/22											
10	🚀	OLT Placement - 400 each	20 days	Tue 2/1/22	Sat 2/26/22											
11	🚀	ONT Placement - 50 each	20 days	Tue 2/1/22	Sat 2/26/22											
12	🚀	Drops - Place 168	23 days	Tue 3/1/22	Thu 3/31/22											
13	🚀	ONT Placement - 50 each	23 days	Tue 3/1/22	Thu 3/31/22											
14	🚀	Permits	3 days	Fri 4/1/22	Tue 4/5/22											
15	🚀	Plow/Trench 6.5 Miles	19 days	Tue 4/5/22	Fri 4/29/22											
16	🚀	Fiber Placement 6.5 Miles	19 days	Tue 4/5/22	Fri 4/29/22											
17	🚀	Fiber Splitter/Splices 550 each	16 days	Fri 4/8/22	Fri 4/29/22											
18	🚀	Drops - Place 168	19 days	Tue 4/5/22	Fri 4/29/22											
19	🚀	OLT Placement	18 days	Tue 4/5/22	Thu 4/28/22											
20	🚀	ONT Placement - 100 each	19 days	Tue 4/5/22	Fri 4/29/22											
21	🚀	Permits	2 days	Mon 5/2/22	Tue 5/3/22											
22	🚀	Plow/Trench 6.5 Miles	20 days	Wed 5/4/22	Tue 5/31/22											
23	🚀	Fiber Placement 6.5 Miles	20 days	Wed 5/4/22	Tue 5/31/22											

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Diamond
- Summary: Thick black bar
- Project Summary: Grey bar with vertical line
- Inactive Task: White bar with black border
- Inactive Milestone: Diamond with black border
- Inactive Summary: Grey bar with vertical line
- Manual Task: Blue bar with vertical line
- Duration-only: Blue bar with vertical line
- Manual Summary Rollup: Blue bar with vertical line
- Manual Summary: Blue bar with vertical line
- Start-only: Blue bar with vertical line
- Finish-only: Blue bar with vertical line
- External Tasks: Grey bar
- External Milestone: Diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Blue bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	N
24	★	Fiber Splitter/Splices 550 each	20 days	Wed 5/4/22	Tue 5/31/22										
25	★	Drops - Place 168	20 days	Wed 5/4/22	Tue 5/31/22										
26	★	OLT Placement	20 days	Wed 5/4/22	Tue 5/31/22										
27	★	ONT Placement - 100 each	20 days	Wed 5/4/22	Tue 5/31/22										
28	★	Permits	2 days	Wed 6/1/22	Thu 6/2/22										
29	★	Plow/Trench 6.5 Miles	20 days	Fri 6/3/22	Thu 6/30/22										
30	★	Fiber Placement 6.5 Miles	20 days	Fri 6/3/22	Thu 6/30/22										
31	★	Fiber Splitter/Splices 550 each	20 days	Fri 6/3/22	Thu 6/30/22										
32	★	Drops - Place 168	20 days	Fri 6/3/22	Thu 6/30/22										
33	★	OLT Placement	20 days	Fri 6/3/22	Thu 6/30/22										
34	★	ONT Placement - 100 each	20 days	Fri 6/3/22	Thu 6/30/22										
35	★	Permits	2 days	Fri 7/1/22	Mon 7/4/22										
36	★	Plow/Trench 6.5 Miles	19 days	Tue 7/5/22	Fri 7/29/22										
37	★	Fiber Placement 6.5 Miles	19 days	Tue 7/5/22	Fri 7/29/22										
38	★	Fiber Splitter/Splices 550 each	19 days	Tue 7/5/22	Fri 7/29/22										
39	★	Drops - Place 168	19 days	Tue 7/5/22	Fri 7/29/22										
40	★	OLT Placement	19 days	Tue 7/5/22	Fri 7/29/22										
41	★	ONT Placement - 100 each	19 days	Tue 7/5/22	Fri 7/29/22										
42	★	Permits	2 days	Mon 8/1/22	Tue 8/2/22										
43	★	Plow/Trench 6.5 Miles	21 days	Wed 8/3/22	Wed 8/31/22										
44	★	Fiber Placement 6.5 Miles	21 days	Wed 8/3/22	Wed 8/31/22										
45	★	Fiber Splitter/Splices 550 each	21 days	Wed 8/3/22	Wed 8/31/22										
46	★	Drops - Place 168	21 days	Wed 8/3/22	Wed 8/31/22										

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Diamond symbol
- Summary: Thick black bar
- Project Summary: Grey bar with vertical line
- Inactive Task: White bar with black border
- Inactive Milestone: Diamond symbol
- Inactive Summary: Grey bar with vertical line
- Manual Task: Teal bar
- Duration-only: Teal bar with vertical line
- Manual Summary Rollup: Teal bar with vertical line
- Manual Summary: Grey bar with vertical line
- Start-only: White bar with black border
- Finish-only: White bar with black border
- Inactive Summary: Grey bar with vertical line
- External Tasks: Grey bar
- External Milestone: Diamond symbol
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Teal bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
47	★	OLT Placement	21 days	Wed 8/3/22	Wed 8/31/22										
48	★	ONT Placement - 100 each	21 days	Wed 8/3/22	Wed 8/31/22										
49	★	Permits	2 days	Thu 9/1/22	Fri 9/2/22										
50	★	Plow/Trench 6.5 Miles	20 days	Mon 9/5/22	Fri 9/30/22										
51	★	Fiber Placement 6.5 Miles	20 days	Mon 9/5/22	Fri 9/30/22										
52	★	Fiber Splitter/Splices 550 each	20 days	Mon 9/5/22	Fri 9/30/22										
53	★	Drops - Place 168	20 days	Mon 9/5/22	Fri 9/30/22										
54	★	OLT Placement	20 days	Mon 9/5/22	Fri 9/30/22										
55	★	ONT Placement - 100 each	20 days	Mon 9/5/22	Fri 9/30/22										
56	★	Permits	2 days	Thu 9/1/22	Fri 9/2/22										
57	★	Plow/Trench 1 Miles	20 days	Mon 9/5/22	Fri 9/30/22										
58	★	Fiber Placement 1 Miles	20 days	Mon 9/5/22	Fri 9/30/22										
59	★	Fiber Splitter/Splices 550 each	20 days	Mon 9/5/22	Fri 9/30/22										
60	★	Drops - Place 168	20 days	Mon 9/5/22	Fri 9/30/22										
61	★	OLT Placement	19 days	Tue 9/6/22	Fri 9/30/22										
62	★	ONT Placement - 100 each	20 days	Mon 9/5/22	Fri 9/30/22										
63	★	Tract 400	217 days	Thu 9/1/22	Fri 6/30/23										
64	★	Permits	2 days	Mon 9/5/22	Tue 9/6/22										
65	★	Plow/Trench 5.5 Miles	18 days	Wed 9/7/22	Fri 9/30/22										
66	★	Fiber Placement 5.5 Miles	18 days	Wed 9/7/22	Fri 9/30/22										
67	★	Fiber Splitter/Splices 550 each	18 days	Wed 9/7/22	Fri 9/30/22										
68	★	Drops - Place 168	18 days	Wed 9/7/22	Fri 9/30/22										
69	★	OLT Placement	18 days	Wed 9/7/22	Fri 9/30/22										

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Diamond symbol
- Milestone: Diamond symbol
- Summary: Horizontal bar with diamond ends
- Project Summary: Horizontal bar with diamond ends
- Inactive Task: Light blue bar
- Inactive Milestone: Light blue diamond
- Inactive Summary: Light blue bar
- Manual Task: Teal bar
- Duration-only: Teal bar with diamond ends
- Manual Summary Rollup: Teal bar with diamond ends
- Manual Summary: Teal bar
- Start-only: Teal bar with diamond end
- Finish-only: Teal bar with diamond end
- External Tasks: Grey bar
- External Milestone: Grey diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Teal bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
70	★	ONT Placement - 105 each	18 days	Wed 9/7/22	Fri 9/30/22										
71	★	Permits	2 days	Tue 10/4/22	Wed 10/5/22										
72	★	Plow/Trench 6.5 Miles	18 days	Thu 10/6/22	Mon 10/31/22										
73	★	Fiber Placement 6.5 Miles	18 days	Thu 10/6/22	Mon 10/31/22										
74	★	Fiber Splitter/Splices 550 each	18 days	Thu 10/6/22	Mon 10/31/22										
75	★	Drops - Place 168	18 days	Thu 10/6/22	Mon 10/31/22										
76	★	OLT Placement	18 days	Thu 10/6/22	Mon 10/31/22										
77	★	ONT Placement - 100 each	18 days	Thu 10/6/22	Mon 10/31/22										
78	★	Permits	2 days	Tue 11/1/22	Wed 11/2/22										
79	★	Plow/Trench 6.5 Miles	20 days	Thu 11/3/22	Wed 11/30/22										
80	★	Fiber Placement 6.5 Miles	20 days	Thu 11/3/22	Wed 11/30/22										
81	★	Fiber Splitter/Splices 550 each	20 days	Thu 11/3/22	Wed 11/30/22										
82	★	Drops - Place 168	20 days	Thu 11/3/22	Wed 11/30/22										
83	★	OLT Placement	20 days	Thu 11/3/22	Wed 11/30/22										
84	★	ONT Placement - 100 each	20 days	Thu 11/3/22	Wed 11/30/22										
85	★	Permits	2 days	Thu 12/1/22	Fri 12/2/22										
86	★	Plow/Trench 6.5 Miles	21 days	Mon 12/5/22	Sat 12/31/22										
87	★	Fiber Placement 6.5 Miles	21 days	Mon 12/5/22	Sat 12/31/22										
88	★	Fiber Splitter/Splices 550 each	21 days	Mon 12/5/22	Sat 12/31/22										
89	★	Drops - Place 168	21 days	Mon 12/5/22	Sat 12/31/22										
90	★	OLT Placement	21 days	Mon 12/5/22	Sat 12/31/22										
91	★	ONT Placement - 125 each	21 days	Mon 12/5/22	Sat 12/31/22										
92	★	Permits	2 days	Mon 1/2/23	Tue 1/3/23										

Project: Spring Creek Grant Pro
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ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
93	★	Plow/Trench	20 days	Wed 1/4/23	Tue 1/31/23										
94	★	Fiber Placement	20 days	Wed 1/4/23	Tue 1/31/23										
95	★	Fiber Splitter/Splices	20 days	Wed 1/4/23	Tue 1/31/23										
96	★	Drops - Place 168	20 days	Wed 1/4/23	Tue 1/31/23										
97	★	OLT Placement-100 each	20 days	Wed 1/4/23	Tue 1/31/23										
98	★	ONT Placement - 50 each	20 days	Wed 1/4/23	Tue 1/31/23										
99	★	Permits	2 days	Wed 2/1/23	Thu 2/2/23										
100	★	Plow/Trench	18 days	Fri 2/3/23	Tue 2/28/23										
101	★	Fiber Placement	18 days	Fri 2/3/23	Tue 2/28/23										
102	★	Fiber Splitter/Splices	18 days	Fri 2/3/23	Tue 2/28/23										
103	★	Drops - Place 168	18 days	Fri 2/3/23	Tue 2/28/23										
104	★	OLT Placement-300 each	18 days	Fri 2/3/23	Tue 2/28/23										
105	★	ONT Placement - 50 each	18 days	Fri 2/3/23	Tue 2/28/23										
106	★	Permits	2 days	Wed 3/1/23	Thu 3/2/23										
107	★	Plow/Trench	21 days	Fri 3/3/23	Fri 3/31/23										
108	★	Fiber Placement	21 days	Fri 3/3/23	Fri 3/31/23										
109	★	Fiber Splitter/Splices	21 days	Fri 3/3/23	Fri 3/31/23										
110	★	Drops - Place 168	21 days	Fri 3/3/23	Fri 3/31/23										
111	★	OLT Placement	21 days	Fri 3/3/23	Fri 3/31/23										
112	★	ONT Placement - 50 each	21 days	Fri 3/3/23	Fri 3/31/23										
113	★	Permits	2 days	Mon 4/3/23	Tue 4/4/23										
114	★	Plow/Trench - 6.5 Miles	18 days	Wed 4/5/23	Fri 4/28/23										
115	★	Fiber Placement - 6.5 Miles	18 days	Wed 4/5/23	Fri 4/28/23										

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar
- Milestone: Diamond
- Summary: Thick blue bar
- Project Summary: Grey bar
- Inactive Task: White bar
- Inactive Milestone: Diamond
- Inactive Summary: Grey bar
- Manual Task: Thick blue bar
- Duration-only: Thin blue bar
- Manual Summary Rollup: Thick blue bar
- Manual Summary: Grey bar
- Start-only: White bar
- Finish-only: White bar
- External Tasks: Grey bar
- External Milestone: Diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Blue bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
116	★	Fiber Splitter/Splices - 550 each	18 days	Wed 4/5/23	Fri 4/28/23	
117	★	Drops - Place 168	18 days	Wed 4/5/23	Fri 4/28/23	
118	★	OLT Placement	18 days	Wed 4/5/23	Fri 4/28/23	
119	★	ONT Placement - 100 each	18 days	Wed 4/5/23	Fri 4/28/23	
120	★	Permits	2 days	Mon 5/1/23	Tue 5/2/23	
121	★	Plow/Trench - 6.5 Miles	21 days	Wed 5/3/23	Wed 5/31/23	
122	★	Fiber Placement - 6.5 Miles	21 days	Wed 5/3/23	Wed 5/31/23	
123	★	Fiber Splitter/Splices - 550 each	21 days	Wed 5/3/23	Wed 5/31/23	
124	★	Drops - Place 168	21 days	Wed 5/3/23	Wed 5/31/23	
125	★	OLT Placement	21 days	Wed 5/3/23	Wed 5/31/23	
126	★	ONT Placement - 100 each	21 days	Wed 5/3/23	Wed 5/31/23	
127	★	Permits	2 days	Thu 6/1/23	Fri 6/2/23	
128	★	Plow/Trench - 5 Miles	20 days	Mon 6/5/23	Fri 6/30/23	
129	★	Fiber Placement - 5 Miles	20 days	Mon 6/5/23	Fri 6/30/23	
130	★	Fiber Splitter/Splices - 418 each	20 days	Mon 6/5/23	Fri 6/30/23	
131	★	Drops - Place 128	20 days	Mon 6/5/23	Fri 6/30/23	
132	★	OLT Placement	20 days	Mon 6/5/23	Fri 6/30/23	
133	★	ONT Placement - 76 each	20 days	Mon 6/5/23	Fri 6/30/23	
134	★	Tract 100	261 days	Thu 6/1/23	Thu 5/30/24	
135	★	Permits	19 days	Mon 6/5/23	Thu 6/29/23	
136	★	Plow/Trench - 1.5 Miles	20 days	Mon 6/5/23	Fri 6/30/23	
137	★	Fiber Placement - 1.5 Miles	20 days	Mon 6/5/23	Fri 6/30/23	
138	★	Fiber Splitter/Splices - 132 each	20 days	Mon 6/5/23	Fri 6/30/23	

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Legend:

- Task: Blue bar
- Split: Grey bar
- Milestone: Diamond
- Summary: Thick black bar
- Project Summary: Thin grey bar
- Inactive Task: White box
- Inactive Milestone: Diamond
- Inactive Summary: Thin grey bar
- Manual Task: Thick blue bar
- Duration-only: Thin blue bar
- Manual Summary Rollup: Thick black bar
- Manual Summary: Thin black bar
- Start-only: White box
- Finish-only: White box
- External Tasks: Grey bar
- External Milestone: Diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Cyan bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
139	★	Drops - Place 40	20 days	Mon 6/5/23	Fri 6/30/23										
140	★	OLT Placement	15 days	Mon 6/5/23	Fri 6/23/23										
141	★	ONT Placement - 24 each	20 days	Mon 6/5/23	Fri 6/30/23										
142	★	Permits	21 days	Mon 7/3/23	Mon 7/31/23										
143	★	Plow/Trench - 6.5 Miles	21 days	Mon 7/3/23	Mon 7/31/23										
144	★	Fiber Placement - 6.5 Miles	21 days	Mon 7/3/23	Mon 7/31/23										
145	★	Fiber Splitter/Splices - 550 each	21 days	Mon 7/3/23	Mon 7/31/23										
146	★	Drops - Place 168	21 days	Mon 7/3/23	Mon 7/31/23										
147	★	OLT Placement	21 days	Mon 7/3/23	Mon 7/31/23										
148	★	ONT Placement - 100 each	21 days	Mon 7/3/23	Mon 7/31/23										
149	★	Permits	2 days	Tue 8/1/23	Wed 8/2/23										
150	★	Plow/Trench - 6.5 Miles	21 days	Thu 8/3/23	Thu 8/31/23										
151	★	Fiber Placement - 6.5 Miles	21 days	Thu 8/3/23	Thu 8/31/23										
152	★	Fiber Splitter/Splices - 550 each	21 days	Thu 8/3/23	Thu 8/31/23										
153	★	Drops - Place 168	21 days	Thu 8/3/23	Thu 8/31/23										
154	★	OLT Placement	21 days	Thu 8/3/23	Thu 8/31/23										
155	★	ONT Placement - 100 each	21 days	Thu 8/3/23	Thu 8/31/23										
156	★	Permits	2 days	Fri 9/1/23	Mon 9/4/23										
157	★	Plow/Trench - 6.5 Miles	19 days	Tue 9/5/23	Fri 9/29/23										
158	★	Fiber Placement - 6.5 Miles	19 days	Tue 9/5/23	Fri 9/29/23										
159	★	Fiber Splitter/Splices - 550 each	19 days	Tue 9/5/23	Fri 9/29/23										
160	★	Drops - Place 168	19 days	Tue 9/5/23	Fri 9/29/23										
161	★	OLT Placement	19 days	Tue 9/5/23	Fri 9/29/23										

Project: Spring Creek Grant Pro
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- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Black diamond
- Summary: Grey bar with horizontal line
- Project Summary: Grey bar with horizontal line and diamond
- Inactive Task: White bar with black border
- Inactive Milestone: White diamond with black border
- Inactive Summary: Grey bar with horizontal line
- Manual Task: Teal bar
- Duration-only: Teal bar with gradient
- Manual Summary Rollup: Teal bar with horizontal line
- Manual Summary: Grey bar with horizontal line
- Start-only: White bar with black border
- Finish-only: White bar with black border
- Inactive Summary: Grey bar with horizontal line
- External Tasks: Grey bar
- External Milestone: Grey diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Teal bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
162	★	ONT Placement - 100 each	19 days	Tue 9/5/23	Fri 9/29/23										
163	★	Permits	2 days	Mon 10/2/23	Tue 10/3/23										
164	★	Plow/Trench - 6.5 Miles	20 days	Wed 10/4/23	Tue 10/31/23										
165	★	Fiber Placement - 6.5 Miles	20 days	Wed 10/4/23	Tue 10/31/23										
166	★	Fiber Splitter/Splices - 550 each	20 days	Wed 10/4/23	Tue 10/31/23										
167	★	Drops - Place 168	20 days	Wed 10/4/23	Tue 10/31/23										
168	★	OLT Placement	20 days	Wed 10/4/23	Tue 10/31/23										
169	★	ONT Placement - 100 each	20 days	Wed 10/4/23	Tue 10/31/23										
170	★	Permits	2 days	Wed 11/1/23	Thu 11/2/23										
171	★	Plow/Trench - 6.5 Miles	20 days	Fri 11/3/23	Thu 11/30/23										
172	★	Fiber Placement - 6.5 Miles	20 days	Fri 11/3/23	Thu 11/30/23										
173	★	Fiber Splitter/Splices - 550 each	20 days	Fri 11/3/23	Thu 11/30/23										
174	★	Drops - Place 168	20 days	Fri 11/3/23	Thu 11/30/23										
175	★	OLT Placement	20 days	Fri 11/3/23	Thu 11/30/23										
176	★	ONT Placement - 100 each	20 days	Fri 11/3/23	Thu 11/30/23										
177	★	Permits	2 days	Fri 12/1/23	Mon 12/4/23										
178	★	Plow/Trench - 6.5 Miles	19 days	Tue 12/5/23	Fri 12/29/23										
179	★	Fiber Placement - 6.5 Miles	19 days	Tue 12/5/23	Fri 12/29/23										
180	★	Fiber Splitter/Splices - 550 each	19 days	Tue 12/5/23	Fri 12/29/23										
181	★	Drops - Place 168	19 days	Tue 12/5/23	Fri 12/29/23										
182	★	OLT Placement	19 days	Tue 12/5/23	Fri 12/29/23										
183	★	ONT Placement - 100 each	19 days	Tue 12/5/23	Fri 12/29/23										
184	★	Permits	2 days	Mon 1/1/24	Tue 1/2/24										

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Black diamond
- Summary: Grey bar with horizontal line
- Project Summary: Grey bar with horizontal line and diamond
- Inactive Task: White bar with black outline
- Inactive Milestone: White diamond with black outline
- External Tasks: Grey bar
- External Milestone: Grey diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Teal bar
- Inactive Summary: Grey bar
- Manual Task: Teal bar
- Duration-only: Teal bar with horizontal line
- Manual Summary Rollup: Teal bar with horizontal line
- Manual Summary: Grey bar with horizontal line
- Start-only: White bar with black outline
- Finish-only: White bar with black outline

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	Half 2, 2022
185	★	Plow/Trench	21 days	Wed 1/3/24	Wed 1/31/24										
186	★	Fiber Placement	21 days	Wed 1/3/24	Wed 1/31/24										
187	★	Fiber Splitter/Splices	21 days	Wed 1/3/24	Wed 1/31/24										
188	★	Drops - Place 168	21 days	Wed 1/3/24	Wed 1/31/24										
189	★	OLT Placement	21 days	Wed 1/3/24	Wed 1/31/24										
190	★	ONT Placement - 50 each	21 days	Wed 1/3/24	Wed 1/31/24										
191	★	Permits	2 days	Thu 2/1/24	Fri 2/2/24										
192	★	Plow/Trench	19 days	Mon 2/5/24	Thu 2/29/24										
193	★	Fiber Placement	19 days	Mon 2/5/24	Thu 2/29/24										
194	★	Fiber Splitter/Splices	19 days	Mon 2/5/24	Thu 2/29/24										
195	★	Drops - Place 168	19 days	Mon 2/5/24	Thu 2/29/24										
196	★	OLT Placement	19 days	Mon 2/5/24	Thu 2/29/24										
197	★	ONT Placement - 50 each	19 days	Mon 2/5/24	Thu 2/29/24										
198	★	Permits	2 days	Fri 3/1/24	Mon 3/4/24										
199	★	Plow/Trench	19 days	Tue 3/5/24	Fri 3/29/24										
200	★	Fiber Placement	19 days	Tue 3/5/24	Fri 3/29/24										
201	★	Fiber Splitter/Splices	19 days	Tue 3/5/24	Fri 3/29/24										
202	★	Drops - Place 168	19 days	Tue 3/5/24	Fri 3/29/24										
203	★	OLT Placement	19 days	Tue 3/5/24	Fri 3/29/24										
204	★	ONT Placement - 100 each	19 days	Tue 3/5/24	Fri 3/29/24										
205	★	Permits	2 days	Mon 4/1/24	Tue 4/2/24										
206	★	Plow/Trench - 6.5 Miles	20 days	Wed 4/3/24	Tue 4/30/24										
207	★	Fiber Placement - 6.5 Miles	20 days	Wed 4/3/24	Tue 4/30/24										

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar
- Milestone: Diamond
- Summary: Thick blue bar
- Project Summary: Grey bar
- Inactive Task: White bar
- Inactive Milestone: Diamond
- Inactive Summary: Grey bar
- Manual Task: Thick blue bar
- Duration-only: Thin blue bar
- Manual Summary Rollup: Thick blue bar
- Manual Summary: Grey bar
- Start-only: White bar
- Finish-only: White bar
- External Tasks: Grey bar
- External Milestone: Diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Blue bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022							
							A	S	O	N	D	J	F	N
208	★	Fiber Splitter/Splices - 550 each	20 days	Wed 4/3/24	Tue 4/30/24									
209	★	Tract 300	89 days	Wed 5/1/24	Sat 8/31/24									
210	★	Permits	2 days	Wed 5/1/24	Thu 5/2/24									
211	★	Plow/Trench - 3.5 Miles	21 days	Fri 5/3/24	Fri 5/31/24									
212	★	Fiber Placement - 3.5 Miles	21 days	Fri 5/3/24	Fri 5/31/24									
213	★	Fiber Splitter/Splices - 297 each	21 days	Fri 5/3/24	Fri 5/31/24									
214	★	Drops - Place 91	21 days	Fri 5/3/24	Fri 5/31/24									
215	★	OLT Placement	21 days	Fri 5/3/24	Fri 5/31/24									
216	★	ONT Placement - 54 each	21 days	Fri 5/3/24	Fri 5/31/24									
217	★	Permits	2 days	Mon 6/3/24	Tue 6/4/24									
218	★	Plow/Trench - 6.5 Miles	18 days	Wed 6/5/24	Fri 6/28/24									
219	★	Fiber Placement - 6.5 Miles	18 days	Wed 6/5/24	Fri 6/28/24									
220	★	Fiber Splitter/Splices - 550 each	18 days	Wed 6/5/24	Fri 6/28/24									
221	★	Drops - Place 168	18 days	Wed 6/5/24	Fri 6/28/24									
222	★	OLT Placement	18 days	Wed 6/5/24	Fri 6/28/24									
223	★	ONT Placement - 100 each	18 days	Wed 6/5/24	Fri 6/28/24									
224	★	Permits	2 days	Mon 7/1/24	Tue 7/2/24									
225	★	Plow/Trench - 6.5 Miles	21 days	Wed 7/3/24	Wed 7/31/24									
226	★	Fiber Placement - 6.5 Miles	21 days	Wed 7/3/24	Wed 7/31/24									
227	★	Fiber Splitter/Splices - 550 each	21 days	Wed 7/3/24	Wed 7/31/24									
228	★	Drops - Place 168	21 days	Wed 7/3/24	Wed 7/31/24									
229	★	OLT Placement	21 days	Wed 7/3/24	Wed 7/31/24									
230	★	ONT Placement - 100 each	21 days	Wed 7/3/24	Wed 7/31/24									

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Diamond symbol
- Summary: Thick black bar
- Project Summary: Thin grey bar
- Inactive Task: White bar with black border
- Inactive Milestone: Diamond symbol
- Inactive Summary: Thin grey bar
- Manual Task: Blue bar with diamond symbol
- Duration-only: Blue bar with diamond symbol
- Manual Summary Rollup: Blue bar with diamond symbol
- Manual Summary: Blue bar with diamond symbol
- Start-only: Blue bar with diamond symbol
- Finish-only: Blue bar with diamond symbol
- External Tasks: Grey bar
- External Milestone: Diamond symbol
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Blue bar

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	Half 2, 2022
							A S O N D	J F
231	★	Permits	2 days	Thu 8/1/24	Fri 8/2/24			
232	★	Plow/Trench - 6.5 Miles	20 days	Mon 8/5/24	Fri 8/30/24			
233	★	Fiber Placement - 6.5 Miles	20 days	Mon 8/5/24	Fri 8/30/24			
234	★	Fiber Splitter/Splices - 550 each	20 days	Mon 8/5/24	Fri 8/30/24			
235	★	Drops - Place 168	20 days	Mon 8/5/24	Fri 8/30/24			
236	★	OLT Placement	20 days	Mon 8/5/24	Fri 8/30/24			
237	★	ONT Placement - 100 each	20 days	Mon 8/5/24	Fri 8/30/24			
238	★	Pleasant Valley Estates	22 days	Thu 8/1/24	Fri 8/30/24			
239	★	Permits	2 days	Thu 8/1/24	Fri 8/2/24			
240	★	Plow/Trench	21 days	Sun 8/4/24	Fri 8/30/24			
241	★	Fiber Placement	21 days	Sun 8/4/24	Fri 8/30/24			
242	★	Fiber Splitter/Splices - 550 each	21 days	Sun 8/4/24	Fri 8/30/24			
243	★	Drops - Place 168	21 days	Sun 8/4/24	Fri 8/30/24			
244	★	OLT Placement	21 days	Sun 8/4/24	Fri 8/30/24			
245	★	ONT Placement - 100 each	21 days	Sun 8/4/24	Fri 8/30/24			
246	★	Ranches	22 days	Wed 9/1/21	Thu 9/30/21			
247	★	Permits	2 days	Wed 9/1/21	Thu 9/2/21			
248	★	Plow/Trench	20 days	Fri 9/3/21	Thu 9/30/21			
249	★	Fiber Placement	20 days	Fri 9/3/21	Thu 9/30/21			
250	★	Fiber Splitter/Splices - 550 each	20 days	Fri 9/3/21	Thu 9/30/21			
251	★	Drops - Place 168	20 days	Fri 9/3/21	Thu 9/30/21			
252	★	OLT Placement	20 days	Fri 9/3/21	Thu 9/30/21			
253	★	ONT Placement - 100 each	20 days	Fri 9/3/21	Thu 9/30/21			

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar with vertical line
- Milestone: Black diamond
- Summary: Grey bar with horizontal line
- Project Summary: Grey bar with horizontal line
- Inactive Task: White bar with horizontal line
- Inactive Milestone: White diamond
- External Tasks: Grey bar
- External Milestone: Grey diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Teal bar




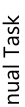















ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1, 2022	A	S	O	N	D	J	F	N
254	★	Clean Up	23 days	Tue 10/1/24	Thu 10/31/24										
255	★	Permits	2 days	Tue 10/1/24	Wed 10/2/24										
256	★	Plow/Trench	21 days	Thu 10/3/24	Thu 10/31/24										
257	★	Fiber Placement	21 days	Thu 10/3/24	Thu 10/31/24										
258	★	Fiber Splitter/Splices - 550 each	21 days	Thu 10/3/24	Thu 10/31/24										
259	★	Drops - Place 156	21 days	Thu 10/3/24	Thu 10/31/24										
260	★	OLT Placement	21 days	Thu 10/3/24	Thu 10/31/24										
261	★	ONT Placement - 100 each	21 days	Thu 10/3/24	Thu 10/31/24										
262	★	Clean Up	21 days	Fri 11/1/24	Fri 11/29/24										
263	★	Permits	2 days	Fri 11/1/24	Mon 11/4/24										
264	★	Plow/Trench	19 days	Tue 11/5/24	Fri 11/29/24										
265	★	Fiber Placement	19 days	Tue 11/5/24	Fri 11/29/24										
266	★	Fiber Splitter/Splices - 550 each	19 days	Tue 11/5/24	Fri 11/29/24										
267	★	Drops	19 days	Tue 11/5/24	Fri 11/29/24										
268	★	OLT Placement	19 days	Tue 11/5/24	Fri 11/29/24										
269	★	ONT Placement - 100 each	19 days	Tue 11/5/24	Fri 11/29/24										
270	★	Clean Up	22 days	Mon 12/2/24	Tue 12/31/24										
271	★	Permits	2 days	Mon 12/2/24	Tue 12/3/24										
272	★	Plow/Trench	20 days	Wed 12/4/24	Tue 12/31/24										
273	★	Fiber Placement	20 days	Wed 12/4/24	Tue 12/31/24										
274	★	Fiber Splitter/Splices - 550 each	20 days	Wed 12/4/24	Tue 12/31/24										
275	★	Drops	20 days	Wed 12/4/24	Tue 12/31/24										
276	★	OLT Placement	20 days	Wed 12/4/24	Tue 12/31/24										

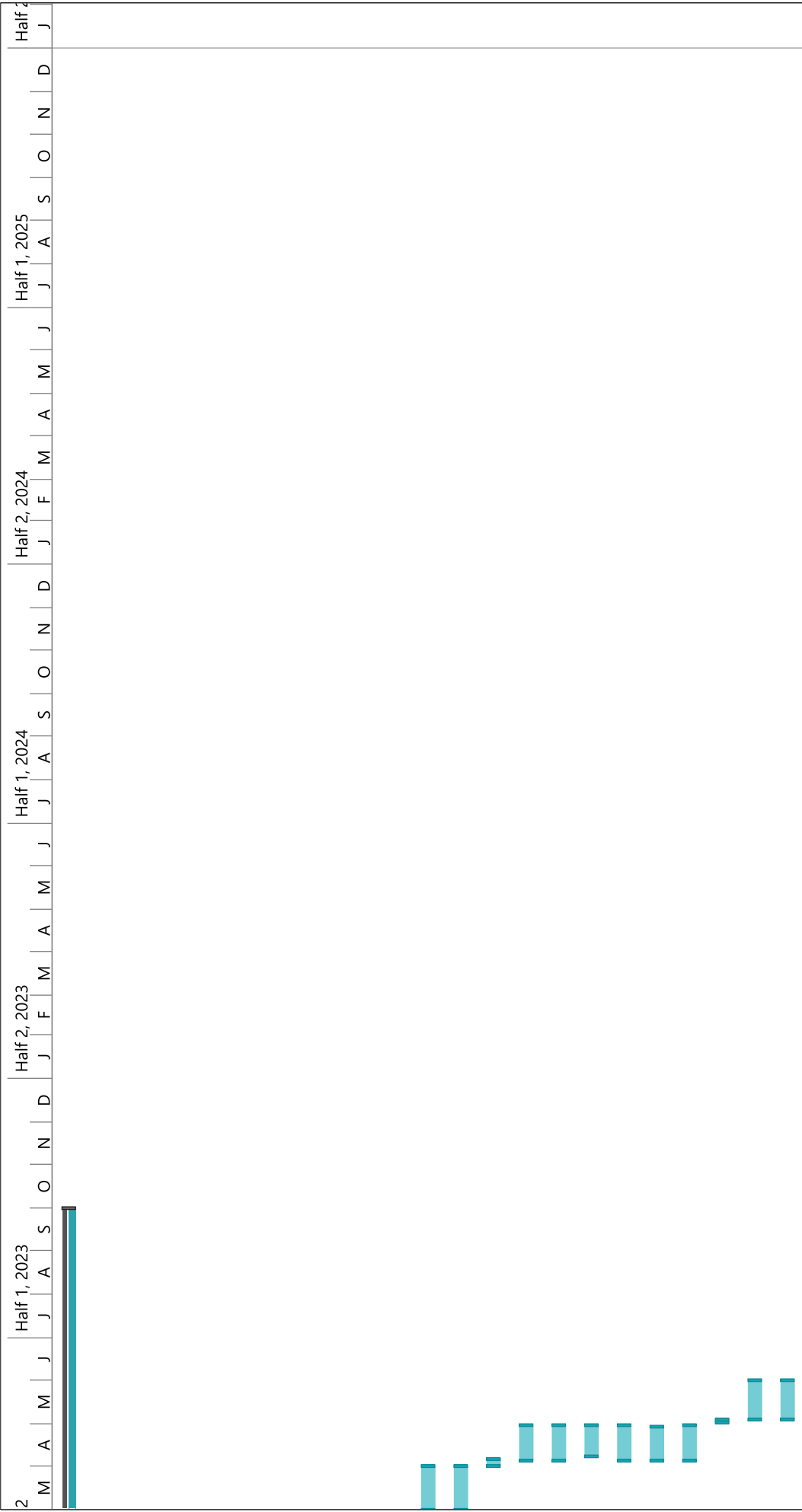
Project: Spring Creek Grant Pro
Date: Thu 8/12/21

- Task: Blue bar
- Split: Grey bar
- Milestone: Diamond
- Summary: Thick blue bar
- Project Summary: Grey bar
- Inactive Task: White bar
- Inactive Milestone: Diamond
- Inactive Summary: Grey bar
- Manual Task: Thick blue bar
- Duration-only: Thin blue bar
- Manual Summary Rollup: Thick blue bar
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- Start-only: White bar
- Finish-only: White bar
- External Tasks: Grey bar
- External Milestone: Diamond
- Deadline: Green arrow
- Progress: Blue bar
- Manual Progress: Blue bar

ID	277		Task Mode 	Task Name	ONT Placement - 100 each	Duration	20 days	Start	Wed 12/4/24	Finish	Tue 12/31/24	Predecessors		1, 2022	A	S	O	N	D	J	F	N	Half 2, 2022
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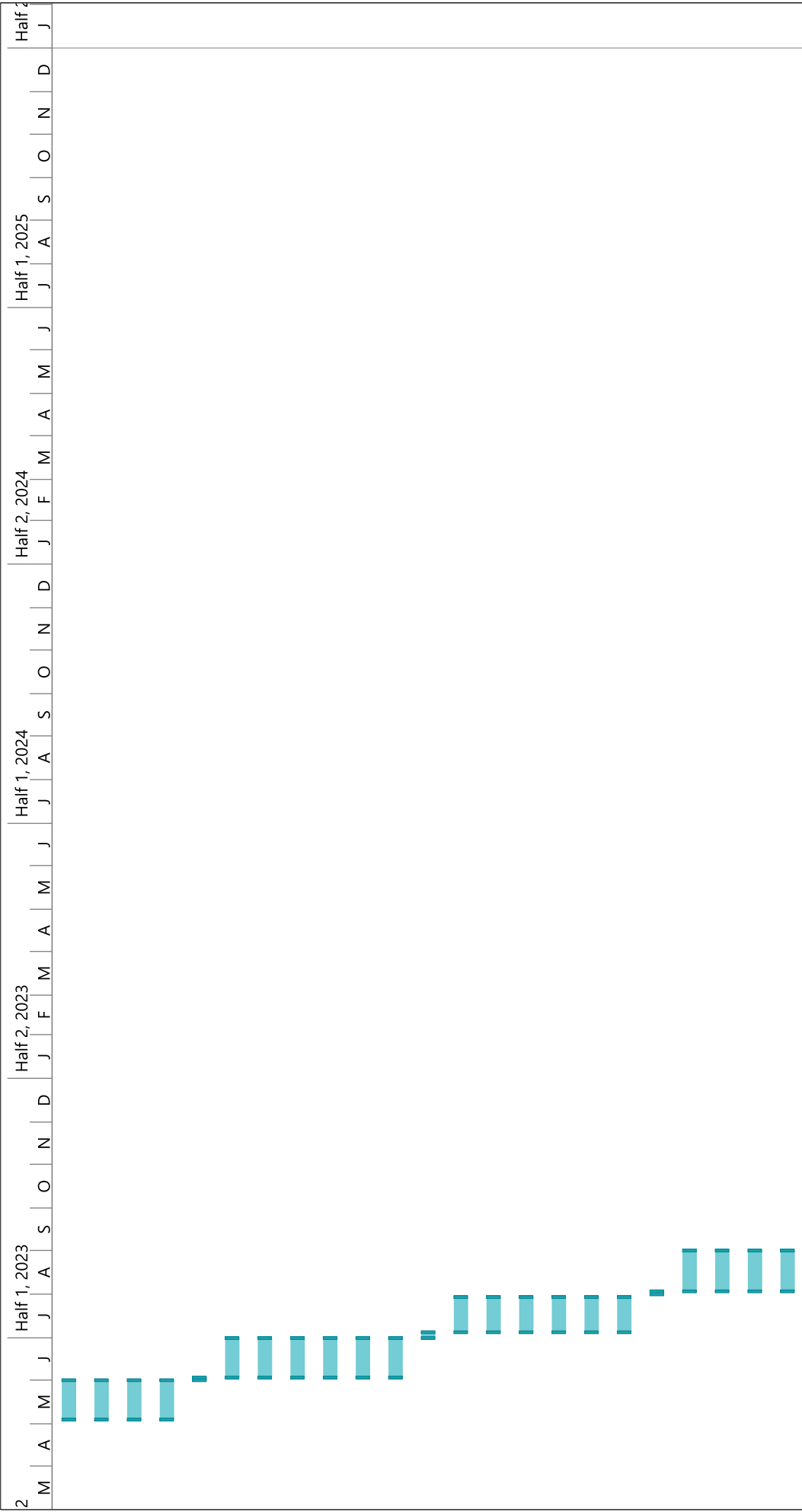
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Project: Spring Creek Grant Pro												Date: Thu 8/12/21											
Task		Inactive Summary		External Tasks																			
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Project Summary		Manual Summary		Manual Progress																			
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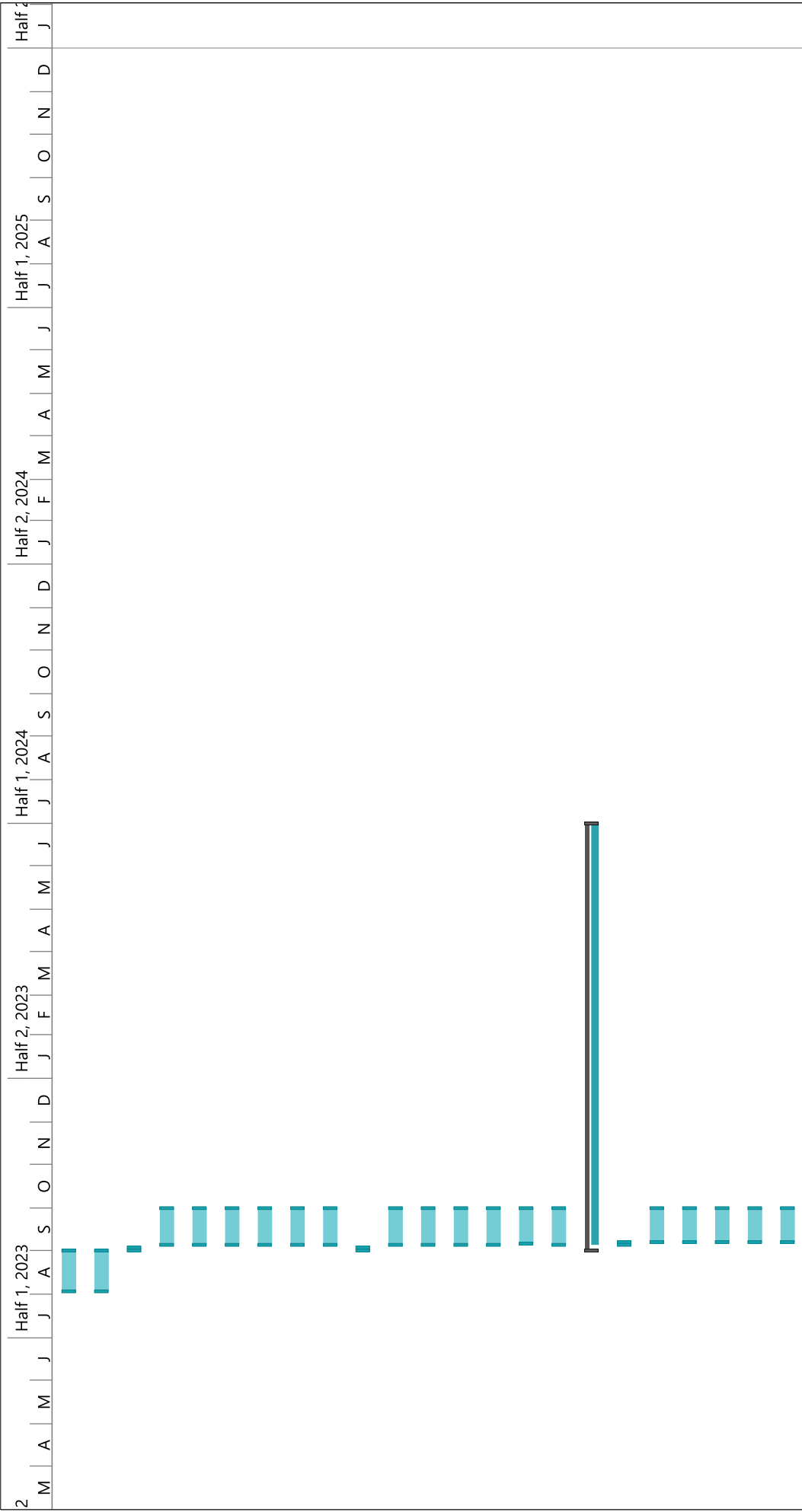
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Project Summary		Manual Summary		Manual Progress	
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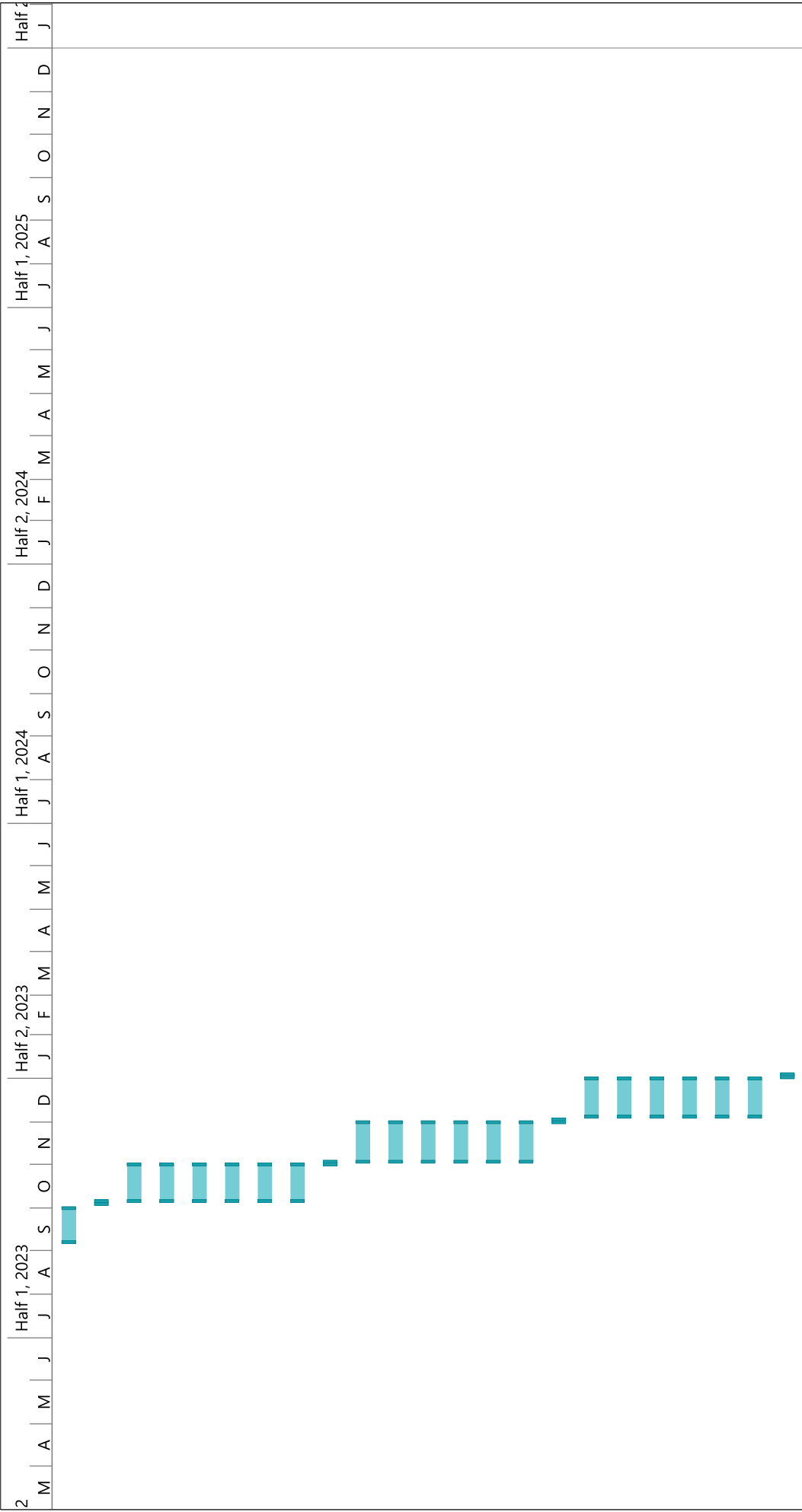
Project: Spring Creek Grant Pro
 Date: Thu 8/12/21



Task		Inactive Summary		External Tasks	
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Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

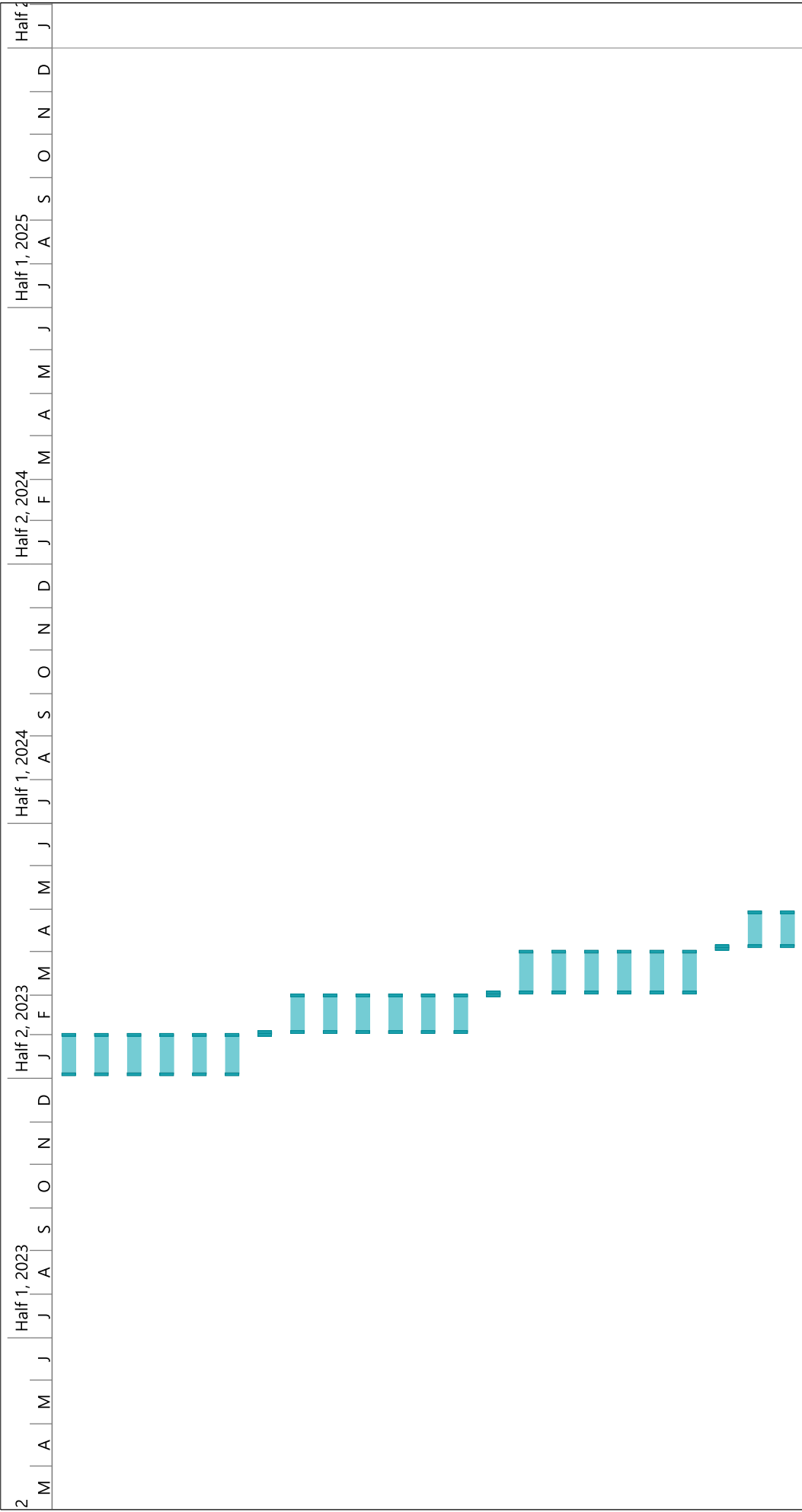
Project: Spring Creek Grant Pro
 Date: Thu 8/12/21





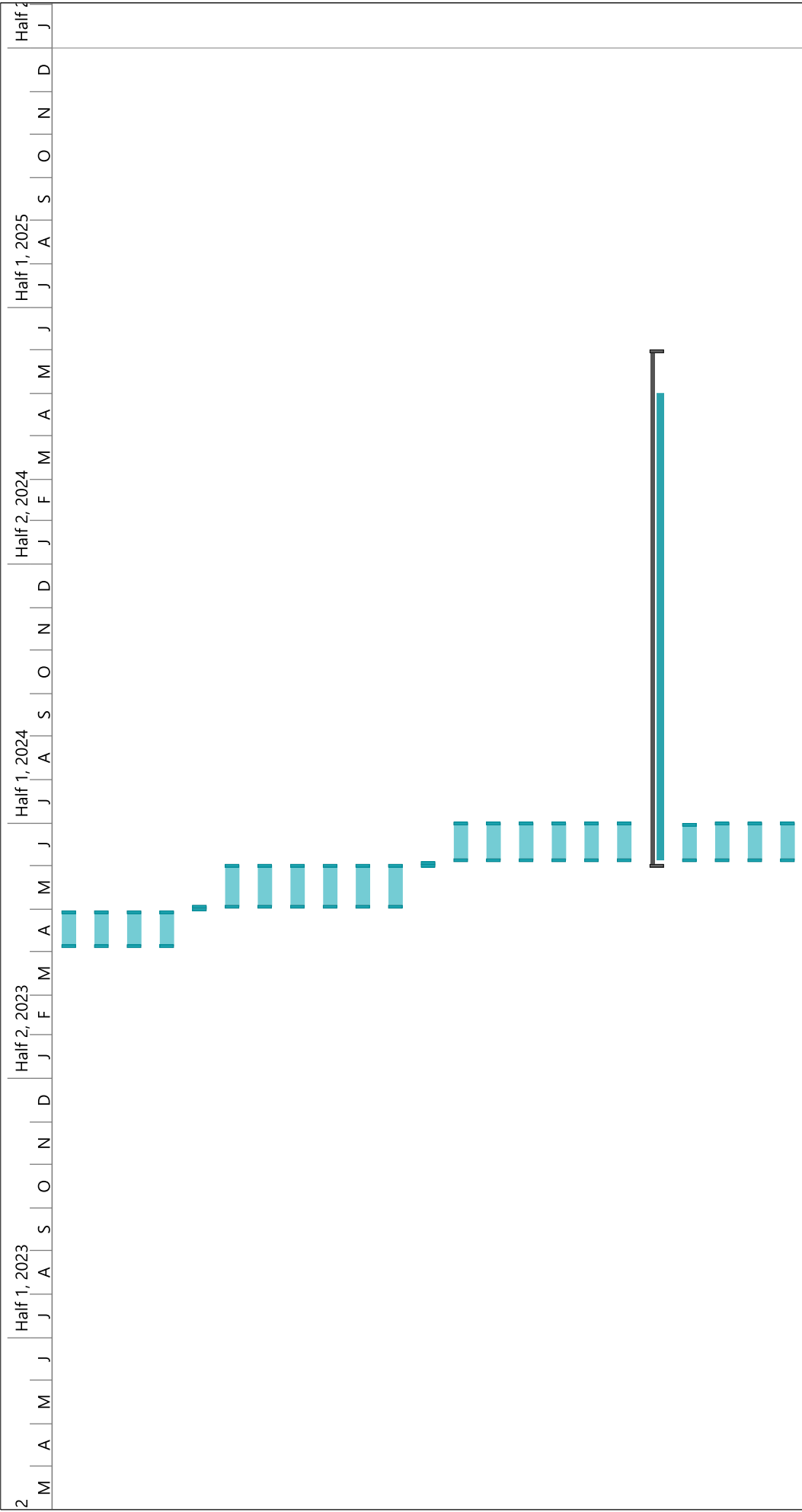
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Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
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Inactive Milestone		Finish-only			

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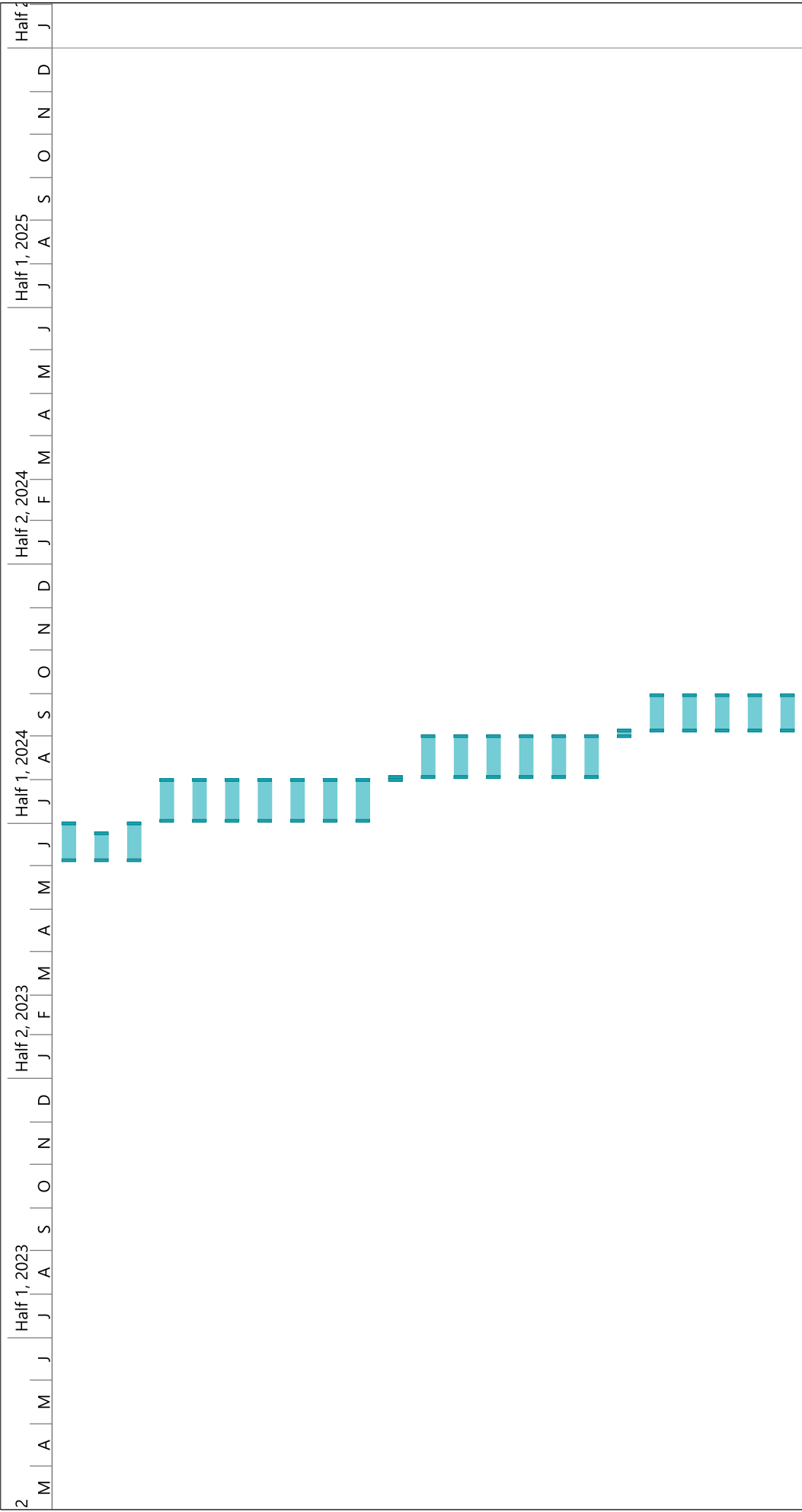


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Summary		Manual Summary Rollup		Progress	
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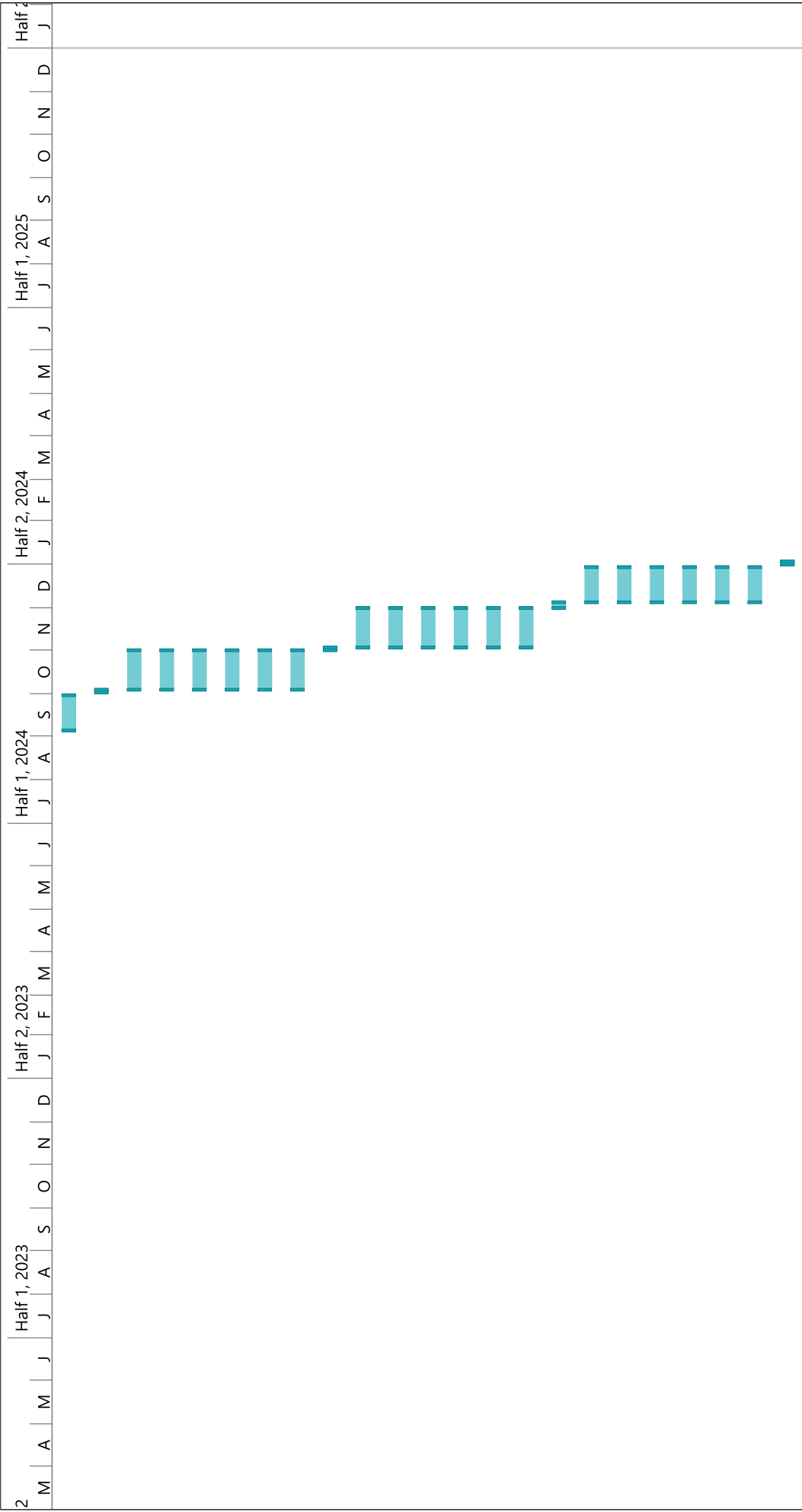


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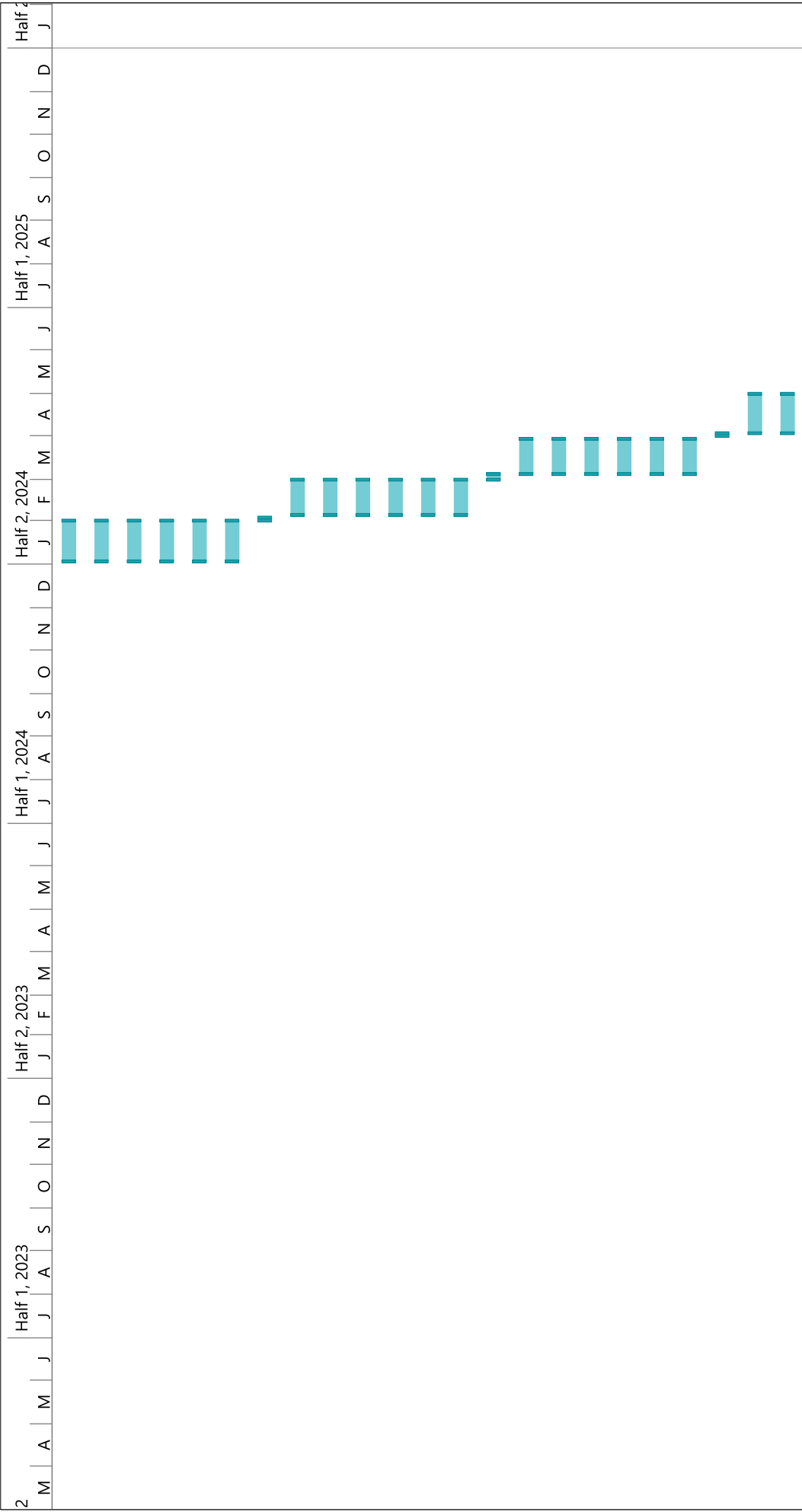
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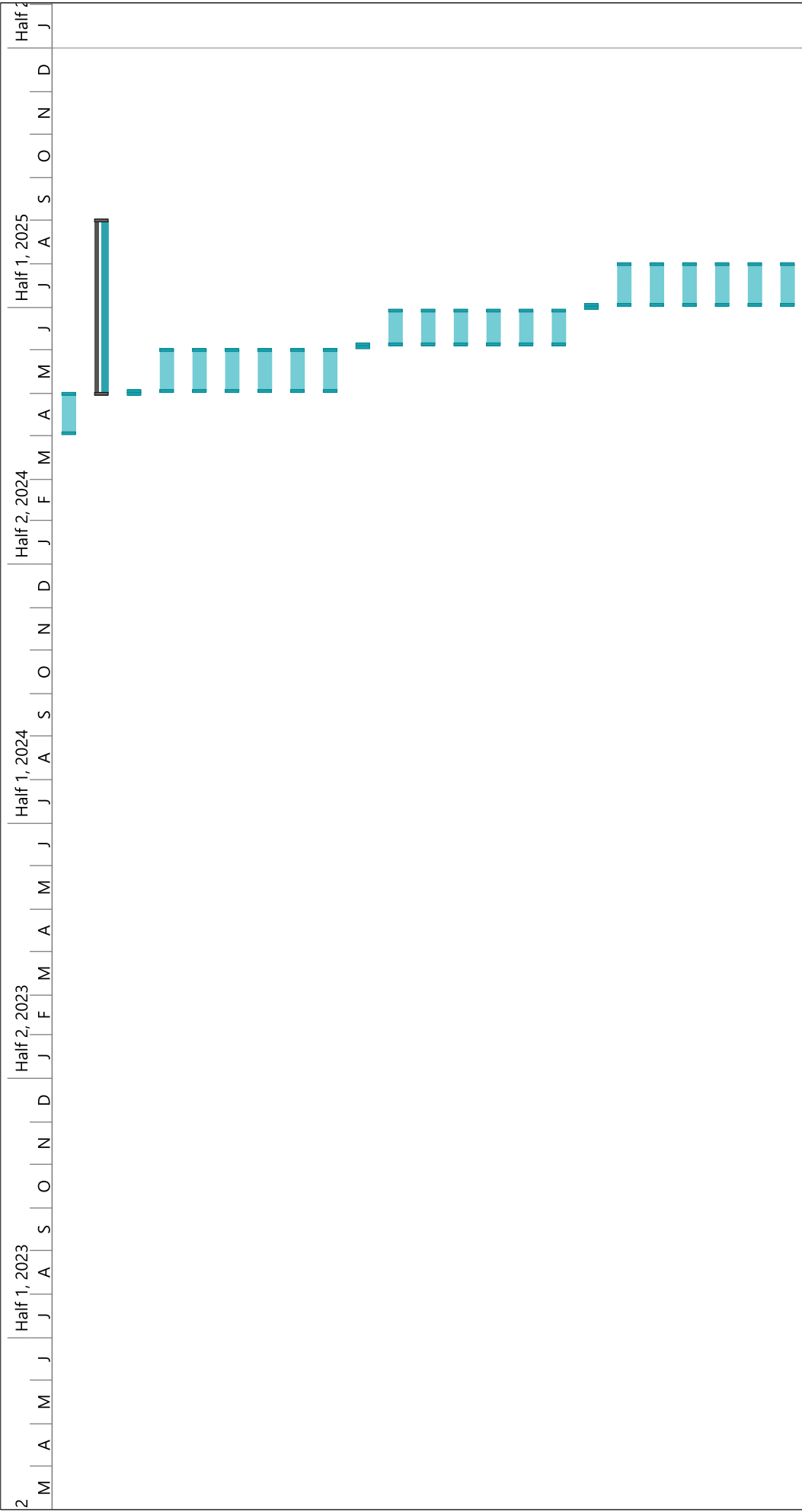
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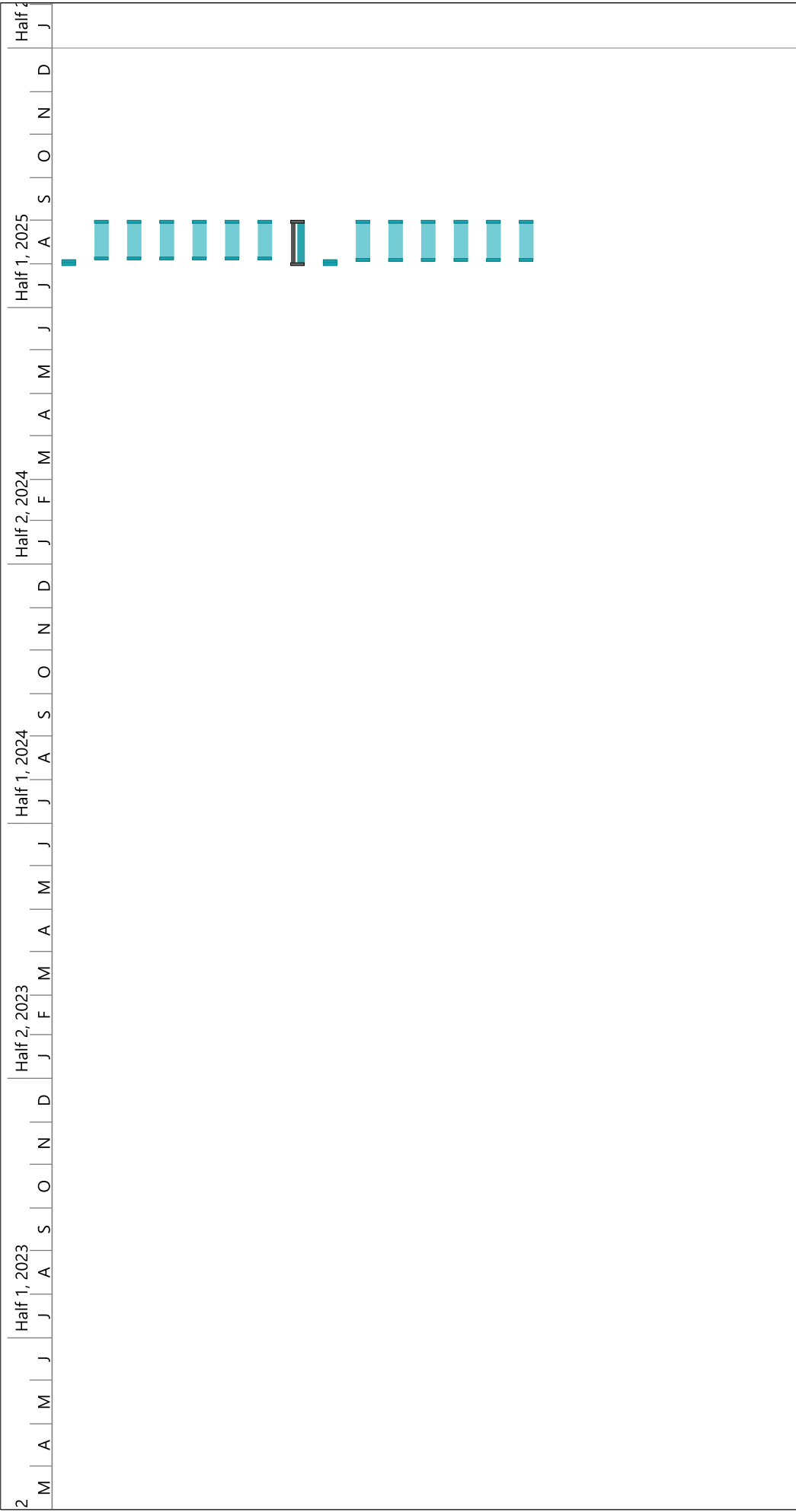
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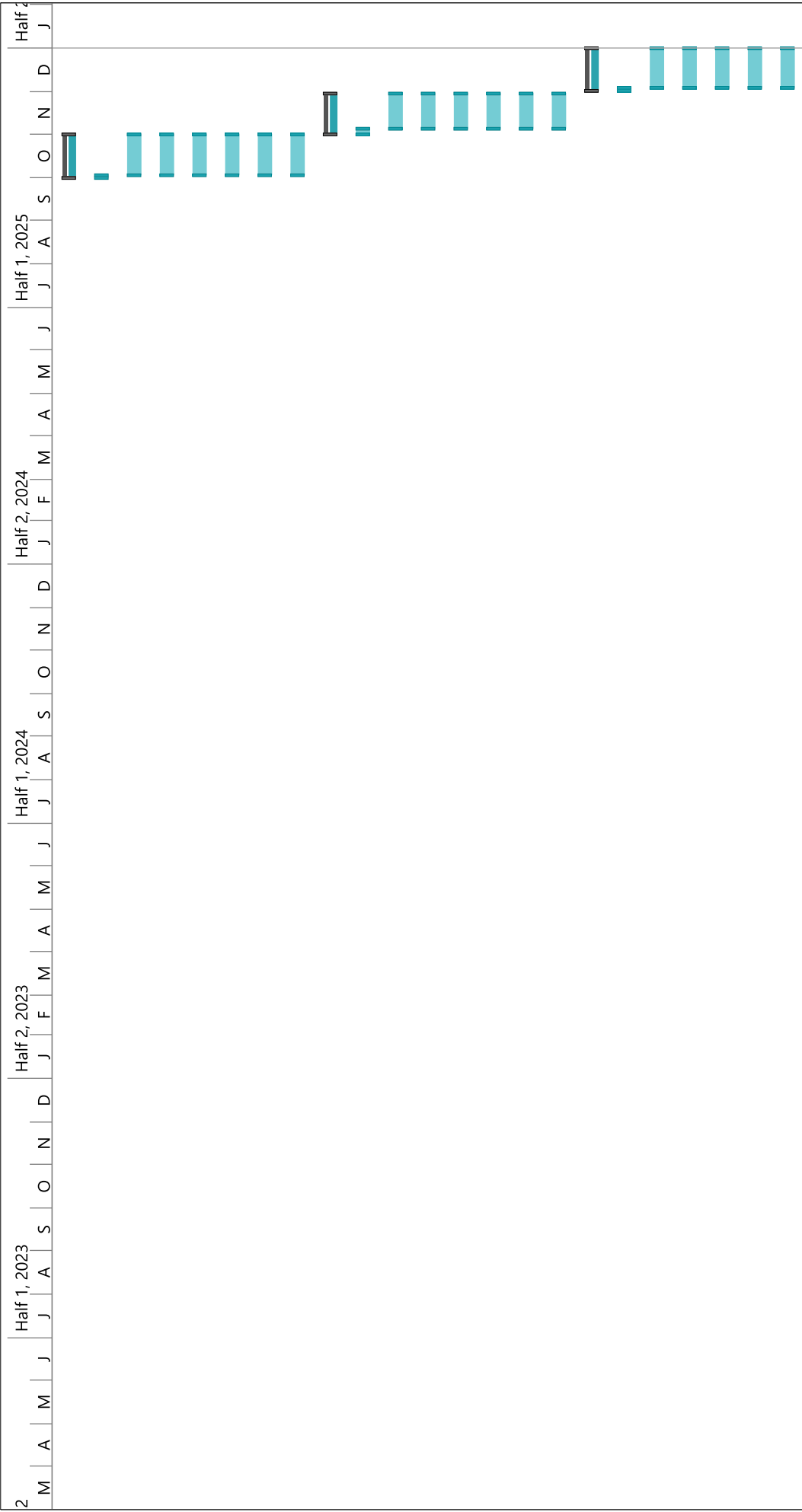
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Inactive Milestone		Finish-only			

Project: Spring Creek Grant Pro
Date: Thu 8/12/21

Mark Feest

MBA

Kelley School of Business, Indiana University.

Master of Science in Telecommunications Management

Oklahoma State University.

Juris Doctor

University of Utah, college of law.

Bachelor of Science, *cum laude*.

Utah State University.

EXPERIENCE

- Increased revenue 17% while decreasing expenses 2.5% after assuming current CEO position.
- Executed plan to expanded fiber network outside of company's previous ILEC footprint by over 1100%, resulting in increased net income from business connectivity services.
- Developed strategic partnership with Switch SuperNap to sell fiber services into the largest industrial park in the United States (T-RIC).
- Experienced in developing and implementing annual operating budget, associated work plan, and capital requirements plan.
- Developed productivity measures for the various telecommunications functions and implemented performance goals and behavioral expectations resulting in a 69% increase in installation and trouble ticket productivity.
- Effectively managed legal and regulatory aspects of asset purchase agreement divesting rural wireless telephone provider of a significant portion of network assets.
- Board of Director – Western Telecommunications Alliance (WTA) (2010-present)
- Board of Director – Churchill Economic Development Authority (2005-2006/2013-2016).

PERTINENT EMPLOYMENT

CEO/General Manager – CC Communications. Fallon, NV. December 2012 – present.

General Counsel and Director of External Affairs – CC Communications. Fallon, NV. May 2006 – December 2012.

General Counsel – CC Communications. Fallon, NV. June, 2001 – May 2006.

Adjunct Professor, Business Law – Western Nevada College. Fallon, NV. August, 2001 – December 2012.

Senior Civil Deputy District Attorney – Churchill County, NV. June, 2001 – October 2003.

Hearing Officer – Salt Lake County Tax Administration. June, 1998 – June, 2001.

US Army. November 1998 – April 2004

James Nugent, CAPM 2313905

Experienced Telecommunications Supervisor with emphasis on project management, design, and delivery of outside plant projects, broadband networks, terrestrial microwave systems for CC Communications services. Executed the transition of CC Communications from traditional copper to an FTTX platform.

Proficiencies

Monitoring and Management of Broadband Systems, Local and Wide Area Networks • Fiber Design and Installation • BLM, BOR, TRPA, NDOT, Union Pacific Railroad and TCID Permitting Processes • Project Implementation & Management • Knowledge of Telecommunications Concepts Principles, Standards, and Procedures • Management of Technical Engineering, NOC and support Staff • Organizational Skills • Inventory Management and Procurement.

Professional Experience

Churchill County Communications
Project Manager
October 2016 – Present

Position Summary: Responsible for project performances.

Churchill County Communications
Operations Supervisor
January 2006 – October 2016

Position Summary: Responsible for supervising the daily activities and responsibilities of the Network Operations Center, Network Security, Engineering staff, and Business Sales Engineer, providing high-level technical assistance and ensuring service and support is provided to customers at agreed levels.

Area Manager, Orius Telecommunication, Inc.
Sparks, NV
5/2004 – 7/2005

Position Summary: Manage day-to-day operations of two Nevada offices, submit and secure bids in addition to providing project management for telecommunication system builds throughout Nevada and areas of California. Identify and develop areas of revenue sources.

Installation Manager, East Sierra Communications
1993-2004

Certifications

Competent Person Trench Safety
Emergency Fiber Restoration
Confined Space Entry / Rescue
Union Pacific Railroad Fiber Optic Safety - 00963

Stewart Nichols, PMP

FORMAL EDUCATION

DeVry Institute of Technology
Bachelor of Science in Electronics Engineering
Technology

Phoenix, Arizona
June 2001

WORK EXPERIENCE

Lead Engineer
CC Communications

August 2016 – Present
Fallon, Nevada

Current supervisor of all Outside Plant Engineers, Construction, Splicing and Buildings and Grounds. Supervised all Engineering and Construction personnel (inside and outside plant) from 2016 to 2018. Coordinated the successful implementation of the long-haul fiber network from Fallon to Las Vegas. Design new and maintain existing copper/fiber telecommunications plant below ground as well as aerial.

Outside Plant Engineer
CC Communications

May 2006 – August 2016
Fallon, Nevada

DoD Clearance: SECRET

Design new and maintain existing copper/fiber telecommunications plant below ground as well as aerial. Work with all parties (internal departments, contractors, property owners, etc.) to provide a quality end product, whether it is a new service or facilities to service new subdivisions. Design plant for brownfield construction using existing facilities where possible to minimize cost and placing new where required. Coordinate the construction and installation of new systems while balancing the quality of service for the maximum subscribers in an area.

Electronics Engineer
Northrop Grumman Technical Services

October 2005 – May 2006
Fallon, Nevada

See Lockheed Martin (LM) job description. LM contract expired and the new contract was awarded to Northrop Grumman.

Electronics Engineer
Lockheed Martin Systems Management

July 2001– October 2005
Fallon, Nevada

Provide communications systems design and troubleshooting for NAS Fallon Tactical Training Range. Design, execute, and test upgrades to Line-of Site Microwave Transmission Networks, Optical Transmission Networks, Traditional Data Networks, Fast Ethernet Networks, Video Networks, UHF/VHF/HF and Satellite Radio Networks. All projects are completed with BICSI, ANSI, EIA, TIA, and NEC standards in mind.

SPECIFIC EQUIPMENT EXPERIENCE

Software

MS Project
Visio
AutoCAD
PCAD
MS Access
PCOM

Test Equipment

Oscilloscopes
Spectrum Analyzer
Power Meter
OTDR
Anritsu Site Master
Fluke multi-meter

Hardware

Tellabs Voice/Data Equipment
Context 2000T Audio Switch
CALIX/OCCAM Network Equipment
Alcatel Microwave Radios
Rockwell Collins VHF Radios
Harris UHF/VHF/SATCOM Radios

Amanda Osborne

LEADERSHIP WITH INTEGRITY AND ACCOUNTABILITY

EDUCATION

BACHELOR OF SCIENCE
Business Administration
Human Resource Management
Colorado Technical University
2011 – 2013

PROFESSIONAL DEVELOPMENT & AFFILIATIONS

SOCIETY FOR HUMAN RESOURCE
MANAGEMENT
National Member since 2008
Certified since 2014

HUMAN RESOURCES CERTIFICATE
INSTITUTE
Professional in HR Certification
Certified since 2011

SOCIETY FOR HUMAN RESOURCE
MANAGEMENT
Annual Conference and
Convention
Attended in 2018 & 2019

HUMAN RESOURCES
CERTIFICATION COURSE
POOL/PACT
2014

ADVANCED HR
CERTIFICATION COURSE
POOL/PACT
2014/2015

CRISIS PREVENTION INSTITUTE
Non-Violent Crisis Intervention
Certified Instructor

CAREER SUMMARY

Strategic, accomplished professional with a unique mix of more than 15 years of public and private sector leadership experience in a variety of areas, including: Human Resources, Payroll, Social Services, and Public Health. Well-respected, solution-oriented, big-picture thinker who takes a collaborative approach to consider all viewpoints and inspire and build trust among others in order to achieve success for our communities, organization, and employees.

EXPERIENCE

ELKO COUNTY MANAGER

Elko County, Elko, Nevada | 2020-Present

- Oversee day to day operations of the county, including grant applications and administrations.

HUMAN SERVICES ADMINISTRATOR

Elko County, Elko, Nevada | 2013 – Present

- Lead the Human Resources and Social Services functions for Elko County, including general oversight of the Public Guardian and Public Administrator. Also support the Elko County Health Officer.
- Provide strategic recommendations and support to elected officials and senior leadership, including the Board of County Commissioners as well as members of other boards and community partners outside of Elko County.
- Manage a combined budget of over 2.87 million dollars per year, not including grant funding. Participate as a member of the Elko County Budget Committee, with a specific focus on staffing recommendations.
- Actively participate in labor negotiations with the multiple labor unions that represent Elko County employees.
- Governor appointment to the Rural Regional Behavioral Health Policy Board.
- Work on Public Health Initiatives Team with an internal subcommittee and external group of community organizations and providers to create a robust support system for communities within Elko County; currently some of the main priorities are addressing mental health concerns and supporting suicide prevention efforts.

BARRICK GOLD OF NORTH AMERICA

Elko, Nevada | 2006 – 2013

BARRICK GOLDSTRIKE MINES, INC. – HEALTH COORDINATOR

Elko, Nevada | 2011 – 2012

BARRICK GOLDSTRIKE MINES, INC. – HUMAN RESOURCES GENERALIST

Elko, Nevada | 2009 – 2011

BALD MOUNTAIN MINE – HUMAN RESOURCES GENERALIST

Elko, Nevada | 2008 – 2009

BARRICK GOLD OF NORTH AMERICA (SHARED BUSINESS CENTER) – BENEFITS TECHNICIAN

Elko, Nevada | 2006 – 2008

GOLDEN HEALTH FAMILY MEDICAL CENTER – ASSISTANT OFFICE MANAGER

Elko, Nevada | 2002 – 2006

SIENNA STIERMAN

PROFESSIONAL SUMMARY

Professional and pleasant work ethic that has been achieved in part by working directly with the public for the last ten years. Dedicated to understanding any aspect of a project as well as a keen attention to detail. Interacts well with others as communication and collaboration are vital for productivity in any endeavor.

EMPLOYMENT EXPERIENCE

- May 2021- Present Elko, Nevada

Administrative Assistant, Elko County Community Development

Maintain office efficiency while assisting all departments in Community Development. Handle and complete all grant writing, administration, and management within the County. Complete minutes for public meetings when needed. Complete reports, claims, billing, and permitting in all departments when needed.

- March 2015 – May 2021 Elko, Nevada

DMV Field Services Technician III, State of Nevada

Process transactions for all classes of driver's licenses, identifications cards, handicap placards, title work, and vehicle registrations. Answer customer questions proficiently. Review all necessary paperwork to assess validity and completion. Review other technician's daily work to ensure documents are completed without error. Review all title work from out of state dealerships. Train new and current employees when necessary.

- January 2015 – March 2015 Elko, Nevada

Front Desk Clerk, Cucina Fresca

Front desk duties including but not limited to answering phones, assisting customers, gift wrapping, and operating cash drawer. Organize product including checking in freight, pricing, tagging, and arranging products on store shelves.

- June 2013 – January 2015 Elko, Nevada

Professional Banker, Nevada State Bank

Cash handling between clients, tellers, vault, ATM, and cash recycler. Assist clients with banking needs including but not limited to deposits, withdrawals, cashier's checks, credit card applications, and questions regarding accounts. Contact different departments within the bank to help solve customer and branch issues. Train new employees behind the teller line.

EDUCATION

Pima Community College

Tucson, Arizona

August 2011 – May 2012

General Studies

Spring Creek High School

Spring Creek, Nevada

Graduated June 2011

Contact

E:

ssiierman@elkocountynv.net

PH: 775-738-6816 ext. 213

F: 775-738-4581



Elko County Board of Commissioners

540 Court Street, Suite 101 • Elko, Nevada 89801

775-738-5398 Phone • 775-753-8535 Fax

www.elkocountynevada.net

Commissioners

Delmo Andreozzi

Wilde Brough

Cliff Eklund

Jon Karr

Rex Steninger

Elko County Manager

Amanda Osborne

Executive Assistant

Michele Petty

November 17, 2021

RE: Elko County's NTIA BIP Grant Extension Request (GRANT13450250)

To the Broadband Infrastructure Program Team, NTIA:

The County of Elko, in partnership with CC Communications, requests the extension of the one-year timeframe for this potential grant funding. With an extensive project such as this, the County trusts and expects CC Communications, and their team of contractors, to provide the best broadband service to the proposed areas, all while ensuring the groundwork be done safely, with the appropriate materials, and in the most efficient way possible.

The obstacles and challenges that CC Communications and many others are facing in construction will contribute to prolonging this critical project. CC Communications stated in their proposal that this project will be set on a three-year timeline. One year of this would reflect the timeframe as requested in the NOFO. This timeline has been created in consideration of the current significant supply chain issues, material shortages, and labor shortages.

With CC Communications already continuing and starting construction in other areas of our County, we have confidence in their proposed timeframe. We believe they will deliver the product and service they have committed to. Elko County supports this extension in full faith as the result will create the broadband support so many in our community need as remote work and virtual learning have increased significantly over the last two years.

Best regards,

Amanda Osborne
Elko County Manager



November 17, 2021

Via email: bbinfo@ntia.gov
NTIA

RE: NTIA BIP Grant Extension Request (GRANT13450250)

Dear NTIA:

CC Communications has partnered with Elko County, NV on grant application GRANT13450250 to deploy FTTH services in Spring Creek, Nevada. Our proposal sets forth a three (3) year timeline to complete construction. The pandemic, together with various grant and loan programs currently available or announced, has created significant supply chain issues, material shortages, and labor shortages. Our experience constructing FTTH facilities over the last two years indicates to us that lead times on materials will not allow for the proposed project to be completed within one year of grant award. For example, vendors are currently estimating up to eighty-four (84) week lead times on fiber. Therefore, we have proposed a more realistic timeline of three (3) years. To that end, CC Communications and Elko County, NV request an extension of two (2) years to complete construction required by GRANT13450250.

If you should have any question regarding the foregoing, please do not hesitate to reach out to Elko County or myself (Mark Feest, 775-423-7171 ext.1401, mark.feest@cccomm.co).

Best Regards,

Mark Feest, GM/CEO



Budget Narrative

The total estimated budget for the locations covered in this grant is \$18,375,002.15. This is all last mile costs, as the proposed project will leverage existing middle mile and infrastructure already placed. Taking the 424(C) line by line, the following details the justification for the amounts provided in the 424(C), as well as the 424.

Cost classification items 1, 3, 7, 8, 11, and 13 do not contain requests for funding. Administrative and legal expenses (1) costs are nearly inextricably comingled with an adjacent project and, as such, CC Communications has left this number at zero to ensure no improper cost recovery is sought in this grant. Relocation expenses and payments (3), site work (7), demolition and removal (8), miscellaneous (11), and contingencies (13) are inapplicable.

CC Communications estimates \$19,200 allocated under land, structures, RoWs, appraisals, etc. (2), attributable to permitting within Spring Creek Association, which is subject to permit review by Elko County. Meetings with the permitting authority have resulted in agreement to break the project into 12 permits, each costing \$1,600.

CC Communications estimates \$375,870 will be allocated under architectural and engineering fees (4). This expenditure is made up of 2278 hours at \$165 per hour of engineering to create engineered stamped drawings reaching every location within the proposed grant area.

CC communications estimates \$33,000 in survey fees under other architectural and engineering fees (5), which is one per permit section (12 total) at \$2,750 each.

CC Communications estimates \$35,000 in inspection fees under project inspection fees (6), which is 350 hours at \$100 per hour. These inspections include quality control, safety, and permit compliance.

CC Communications estimates \$12,216,845.40 in construction (9) costs. \$1,191,844.11 of these costs will be allocated for the use of federal dollars while the remaining \$11,025,001.29 will be CC Communications match. The following construction labor will be performed: 135,812 feet of trenching at \$18.70 per foot; 907,670 feet of plowing at \$7.70 per foot; 7,740 feet of boring at \$110.00 per foot; installation of 90 4-way splitters at \$100 per splitter; installation of 360 16-way splitters at \$100 per splitter; blowing of 1,579,820 feet of fiber at \$1.10 per foot; four hundred eighteen hours of splicing at \$100 per hour; and twenty-two incidences of mobilizing crews at \$550 per mobilization. Circumstances on the ground could require variations, and numbers are approximations based on past experience in similar areas and construction drawings. There are cases where unmarked existing facilities and subsurface conditions require alterations to construction practices such as depth change resulting in trenching or boring where engineered drawings had called for plowing.

CC Communications estimates \$5,695,086.75 in equipment (10) costs. The following equipment and materials will be placed: 762,780 feet of 288 fiber at \$1.53 per foot; 655,040 feet of 48 fiber at \$.32 per foot; 162,000 feet of 2 fiber at \$.08 per foot; 917,040 of 4-way 16/13 conduit at \$.98 per foot; 593,040 feet of 2-way 16/13 conduit at \$.47 per foot; 90 4-way splitters at \$49.14 per splitter; 360 16-way splitters at \$95.71 per splitter; 162,000 feet of 1-way 16/13 conduit at \$.19



Elko County's Broadband Partnership with CC Communications for the Spring Creek Area

per foot; 5 XGSPON OLT's at \$69,229.50 per OLT; 450 single 17" dome splice cases at \$140.33 per case; 450 splice trays at \$21.20 per case; 5400 ONT/NID's at \$486 per ONT/NID; and, 755 1000' rolls of dig tape at \$20.17 per roll.

Together, the cost classifications listed above equal \$18,375,002.15, which is reflected as the total project cost in line 16 of the 424(C) and 18 (g) of the 424. The grant proposal asks for 40%, or \$7,350,000.86, as reflected in line 17 of the 424(C) and line 18(a) of the 424. CC Communications will provide the 60% funding (\$11,025,001.29) as reflected in line 18(b) of the 424. Furthermore, CC Communications will provide any additional funding to meet the buildout requirements of this grant should the estimates provided in the 424 and 424(C) be negatively impacted by inflation or contingencies not included in this proposal.



CC Communications Budget Justification

Cost Category	Constuction Labor	Unit of measurement	Cost per
(9) Construction	Trench	135,812 Feet	\$18.70 foot
(9) Construction	Plow	907,670 Feet	\$7.70 foot
(9) Construction	Bore	7740 Feet	\$110.00 foot
(9) Construction	4-way Splitter	90 Installed Splitters	\$100.00 splitter
(9) Construction	16-way Splitter	360 Installed Splitters	\$100 splitter
(9) Construction	Fiber	1579820 Feet	\$1.10 foot
(9) Construction	Splicing	418 Hours	\$100.00 hour
(9) Construction	Mobilization	22 Incidences of mobilizing	\$550.00 mobilization
			<u>\$12,216,845.40</u>
	Federal Funds		\$1,191,844.11
	CC Communications Match		<u>\$11,025,001.29</u>
			\$12,216,845.40
	Labor		
(4) Architectural/Engineering Fees	Engineering	2278 hours	\$165.00 hour
(6) Project Inspection	Inspector	350 hours	\$100.00 hour
(5) Other Architectural	Surveying	12 Surveys	\$2,750.00 survey
(2) Land, Structures, etc.	Permits	12 Permits	\$1,600.00 permit
			<u>\$375,870.00</u>
			\$35,000.00
			\$33,000.00
			<u>\$19,200.00</u>
			\$463,070.00
	Materials		
(10) Equipment	288F	762780 Feet	\$1.53 foot
(10) Equipment	48f	655,040 Feet	\$0.32 foot
(10) Equipment	12f	Feet	0.13 foot
(10) Equipment	2F	162,000 Feet	\$0.08 foot
(10) Equipment	4-way 16/13	917040 Feet	\$0.98 foot
(10) Equipment	2-way 16/13	593040 Feet	\$0.47 foot
(10) Equipment	4-Way Splitter	90 splitter	\$48.14 splitter
(10) Equipment	16-way splitter	360 splitter	\$95.71 splitter
(10) Equipment	1-way 16/13	162,000 Feet	\$0.19 foot
(10) Equipment	XGS-PON OLT	5 OLT Units	\$69,229.50 OLT
(10) Equipment	17" Dome splice case	450 single case	\$140.33 case
(10) Equipment	Splice tray	450 single tray	\$21.20 tray
(10) Equipment	ONT/NID	5400 single ONT/NID	\$486.00 ONT/NID
(10) Equipment	Dig Tape (1000' rolls)	755 roll of tape	\$20.17 roll
			<u>\$5,695,086.75</u>
	Sub-Total		\$18,375,002.15



August 16, 2021

NTIA BIP
Via Electronic Upload

CC Communications is writing in support of the Elko County, Nevada's application for federal funding under the National Telecommunications and Information Administration's Broadband Infrastructure Program. CC Communications will serve as the service provider partner in this covered partnership.

Elko County, Nevada is partnering with CC Communications a broadband provider with existing presence in the region, to propose to bring affordable Fiber to the Home (FTTH) service to all residences in the proposed service area. The FTTH service will bring long-term, sustainable, affordable and secure broadband service to residential and business locations within the proposed service area.

During the pandemic, residents within the proposed service area experienced many issues related to the current inadequate residential broadband service. Maintaining educational progress, treatment of chronic medical conditions, maintaining employment in a telework environment all proved challenging. The FTTH connections provided by this grant will address these issues and greatly mitigate future challenges.

Elko County also looks forward to the economic benefits FTTH can bring to the proposed service area. Job training opportunities, company and innovation incubation and greater educational attainment all are greater in a FTTH environment.

For these reasons, we are serving as the service provider for the Elko County, Nevada's application. CC Communications will provide services/investment to support the applicant as outlined in this application.

Thank you for your kind attention.

Best Regards,

A handwritten signature in black ink, appearing to read "Mark Feest".

Mark Feest, CEO
CC Communications



Elko County Board of Commissioners

540 Court Street, Suite 101 • Elko, Nevada 89801

775-738-5398 Phone • 775-753-8535 Fax

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Commissioners

Delmo Andreozzi

Wilde Brough

Cliff Eklund

Jon Karr

Rex Steninger

Elko County Manager

Amanda Osborne

Executive Assistant

Michele Petty

August 16, 2021

RE: Elko County's Letter of Commitment

To Whom It May Concern:

On August 4, 2021, the Elko County Board of Commissioners approved entering into a covered partnership with CC Communications to expand their already deployed XGS-PON FTTH network to serve 100% of the proposed service area of Spring Creek, NV. This particular area is very rural and has been grossly underserved with respect to broadband services. Reliable internet access has always been a challenge in the Spring Creek area. Last year, internet proved to be more than a luxury as many residents were abruptly forced to work at home as school aged children transitioned to distance learning. Broadband internet has become a necessary utility for all households of any age and demographic.

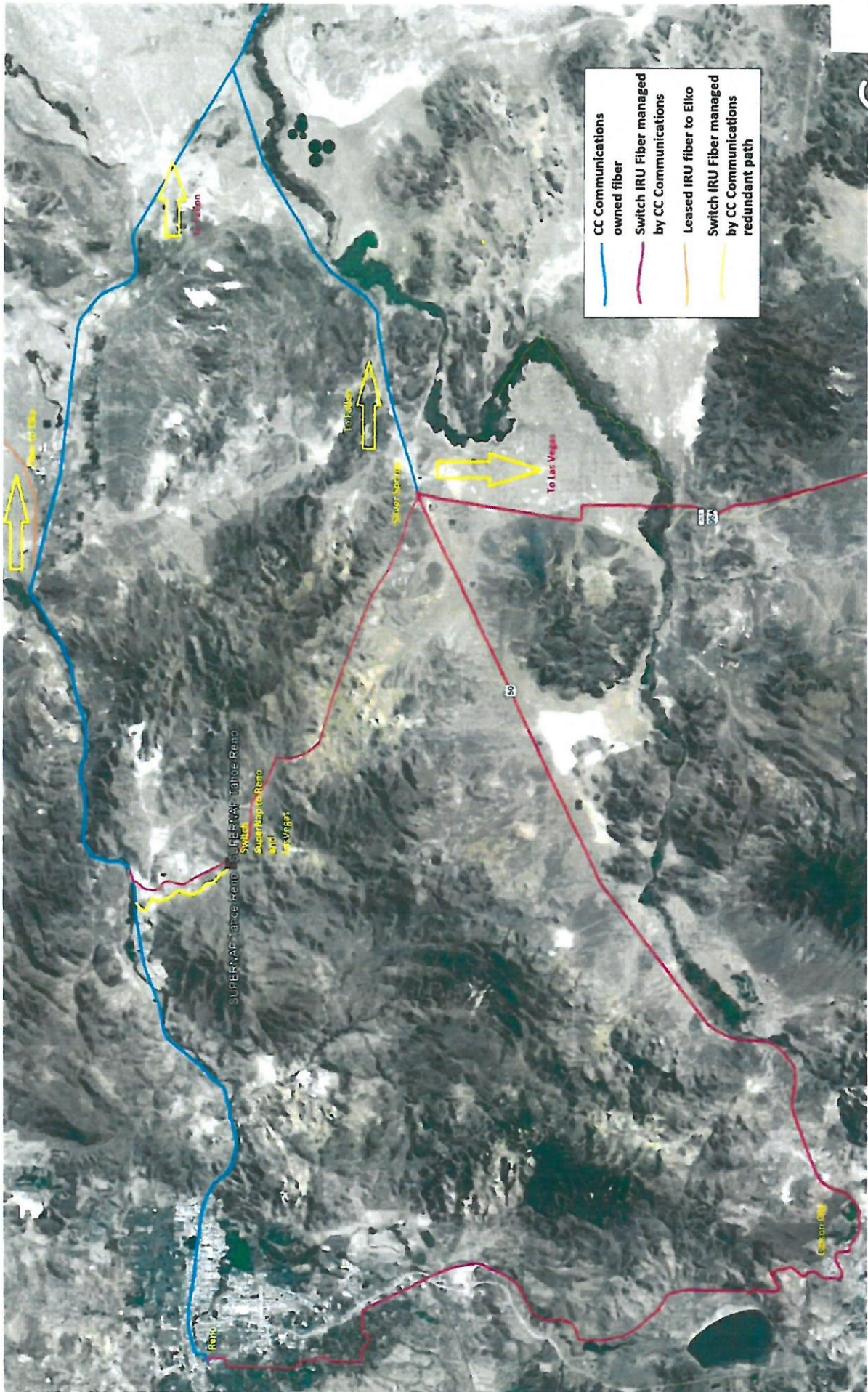
Elko County Commissioners selected CC Communications as our partner for a few reasons. CC Communications is investing their own funds in the project, which demonstrates their commitment to ensuring broadband access to the underserved areas and to the success of the overall project. In addition, they have worked with Northeastern Nevada Equipment (NNE), a locally owned construction company, for the last 30 years. Their partnership with local companies amplifies the economic benefits of the project to the county. CC Communications has also installed more fiber in the rural areas of Nevada than any other company, showing they have the experience needed for the Spring Creek area.

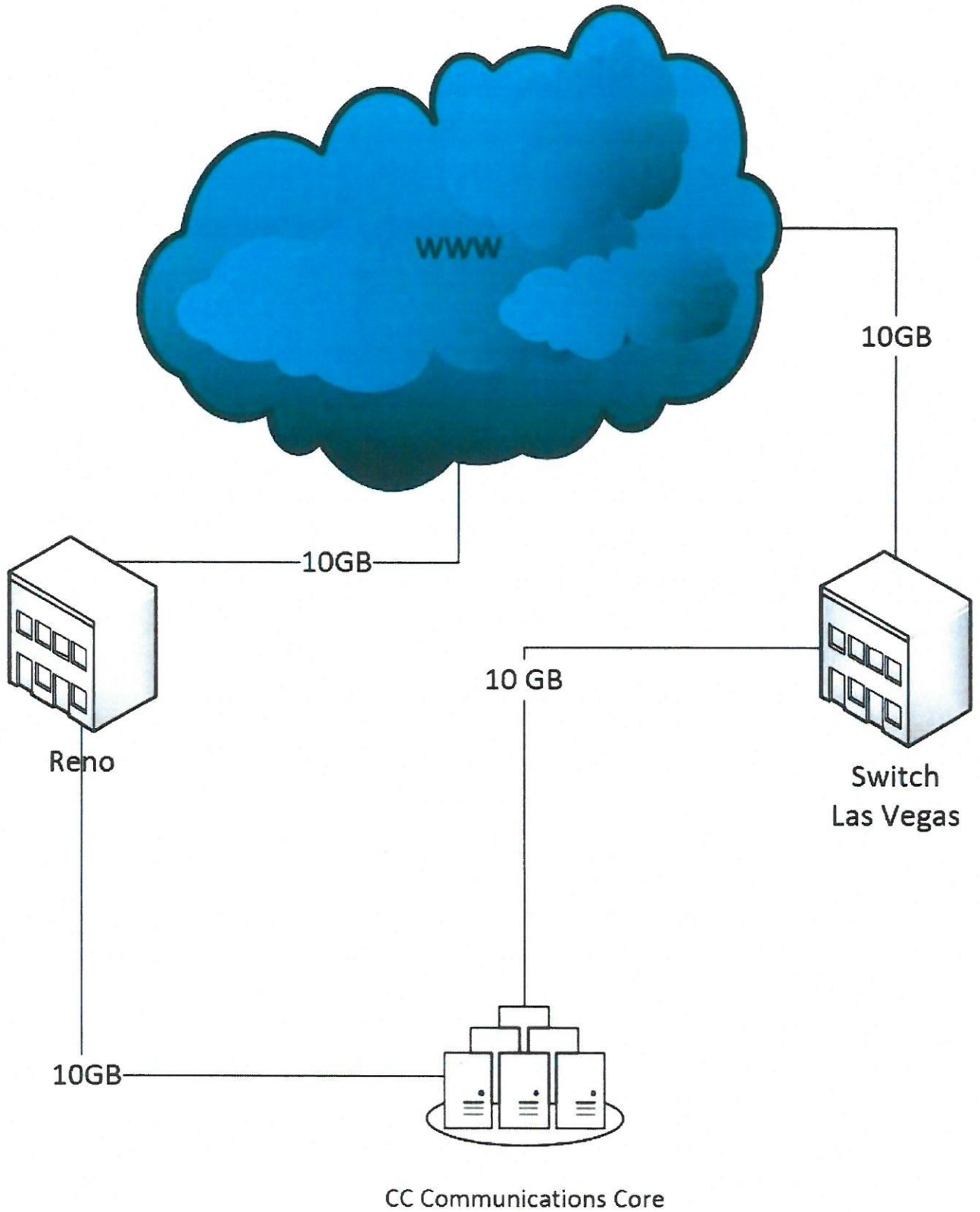
Elko County has enjoyed a collaborative working relationship with CC Communications and is committed to continue working closely with them through the grant application process, award, and project implementation. Should our project be selected for funding, we have knowledgeable staff dedicated to overseeing and administering the award. Both Elko County and CC Communications are excited for the opportunity to bring much needed broadband internet services to our rural communities.

Best regards,

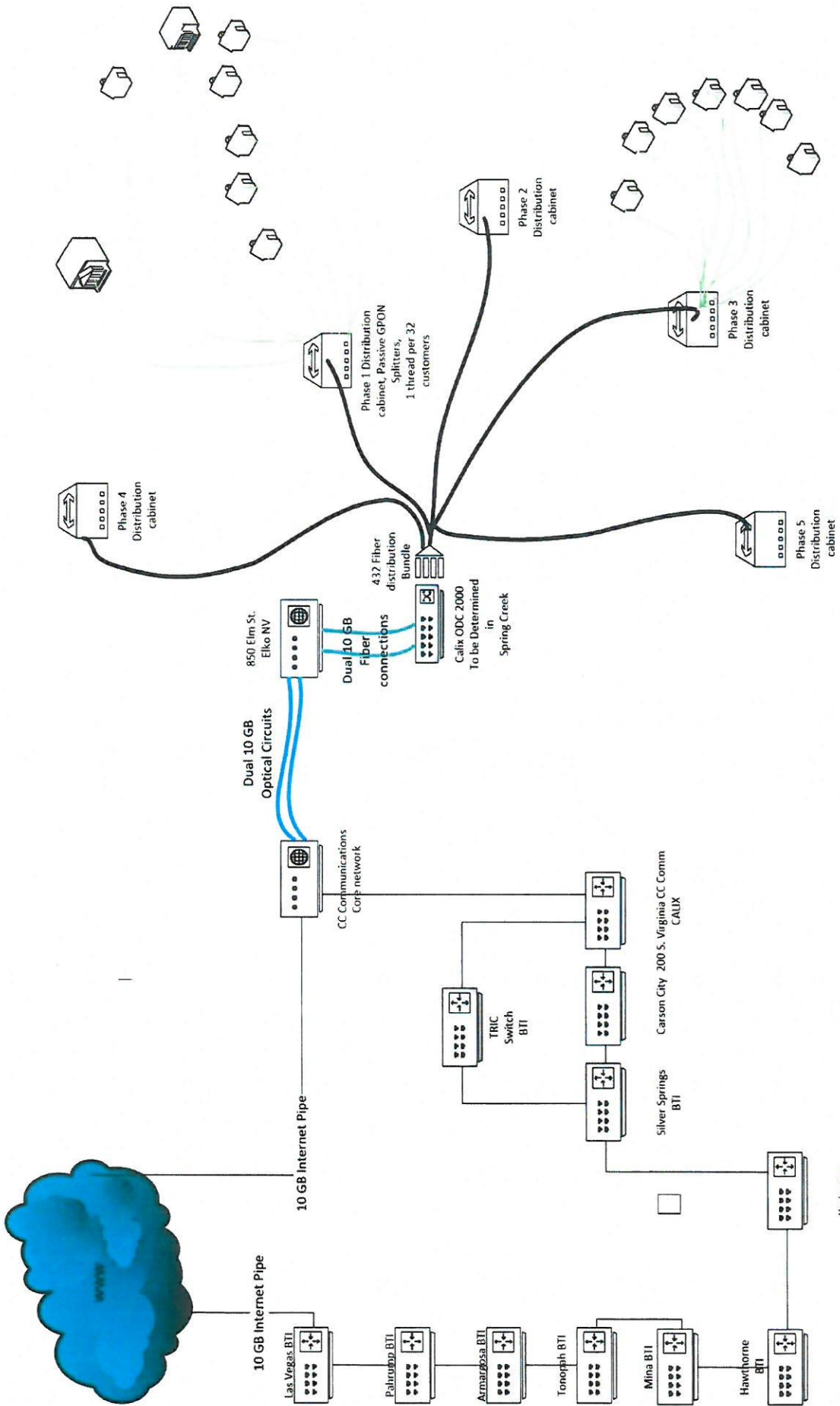
Amanda Osborne
Elko County Manager

**NETWORK AND SYSTEM
DIAGRAMS**





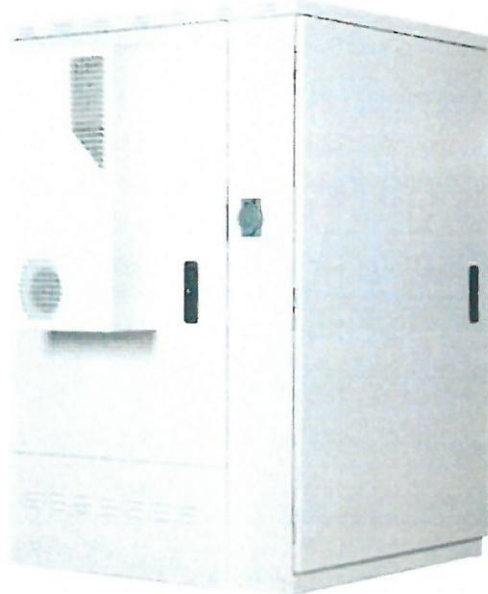
CC Communications





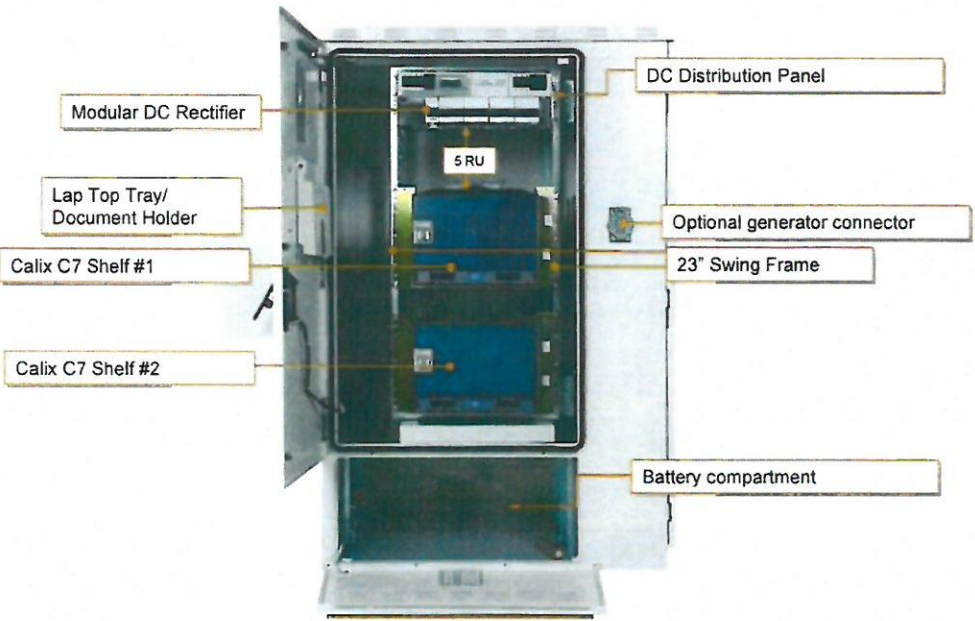
FEATURE DESCRIPTION

The Clearfield ODC-2000 broadband enclosure has been designed with the philosophy of modularity and flexibility, while maintaining a maximum cooling capability for broadband services. It is designed to accommodate C7, E series and provide all the powering, protection, and cable management to serve up to 1152 copper, or up to 8192 PON subscribers. As with all Clearfield enclosures, the ODC-2000 supports 100% density of narrowband and broadband copper services.



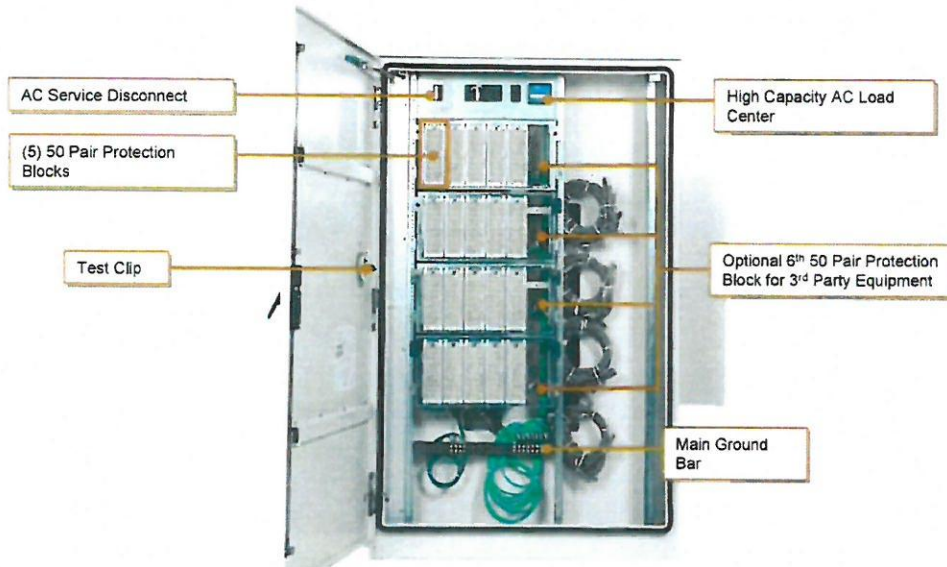
ODC 2000 External View

The information contained in this document is not a commitment, promise or legal obligation to deliver any material, code or functionality. The development, release, and timing of any features or functionality described for our products remains at our sole discretion.



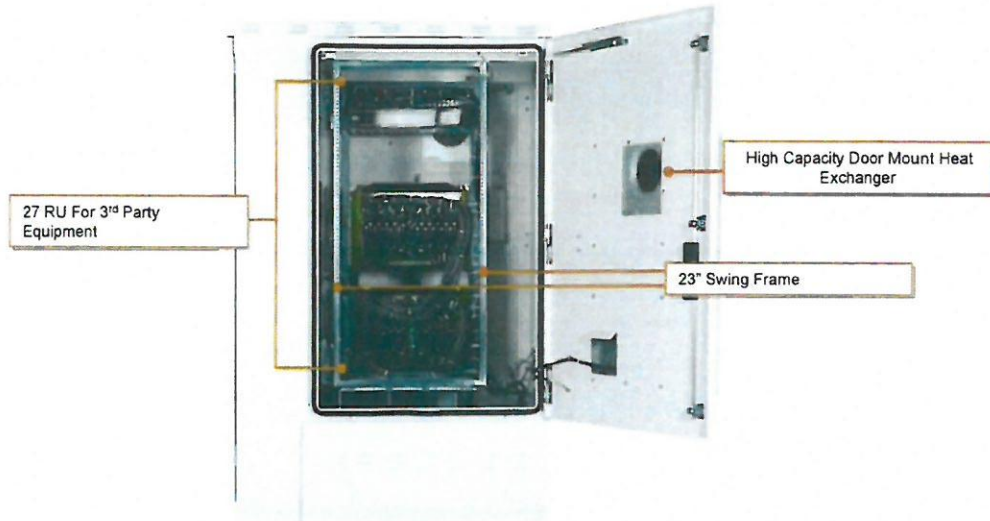
C7 in ODC 2000- Front View

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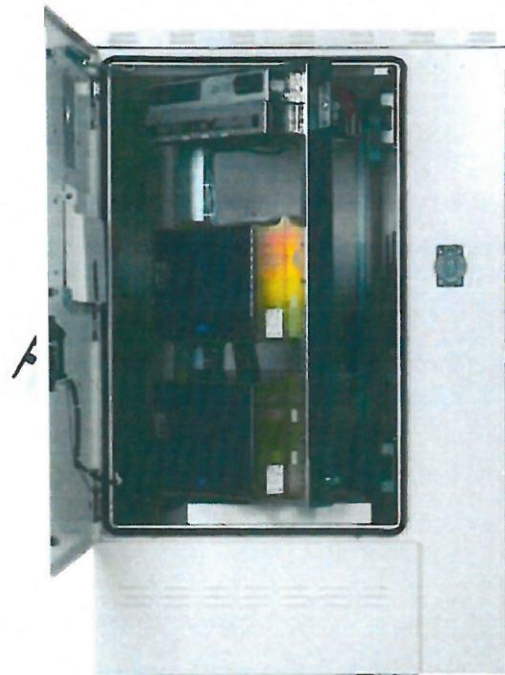


ODC 2000 Splice Chamber – Side View

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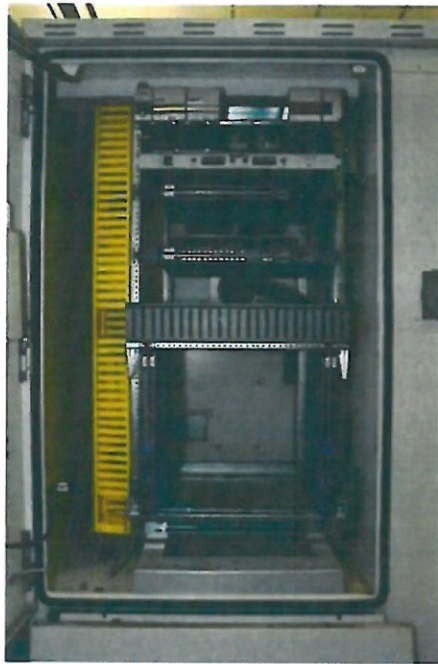


ODC 2000 Rear View with C7



ODC 2000 Front View with Swing Frame

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ODC 2000 Front View with E7-2

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The Generic ODC-2000 packages include the following items:

The main features include the following:

Enclosure Design

- Environmentally sealed design protects from dust and rain
- Compartmentalized for craft separation, including separate vented battery compartment
- Environmental and intrusion alarm systems
- GR-487 compliant and UL-60950/UL-50 spec
- Environmentally rated from -40C to +46C (per GR-487)

Equipment support

- Door-mounted heat exchangers (2) provide up to 3700W of cooling capacity
- Swing frame design for 23-inch front and rear equipment racks
- 54 RU total mounting space for equipment (27 RU per side)
- Mechanical support for high density fiber and copper plant terminations
- Modular, scalable copper line protection (50-pair block increments- CAT5)

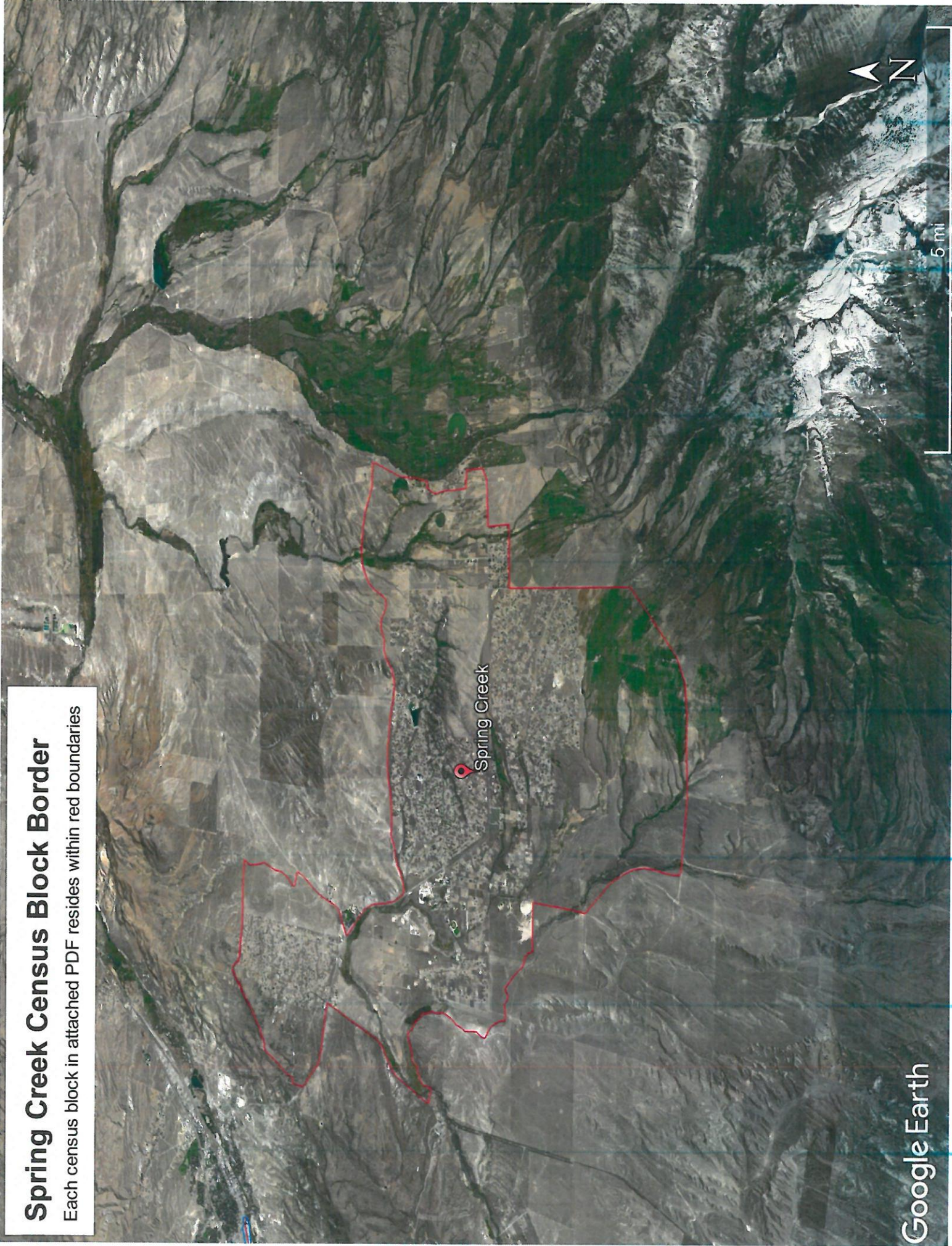
Power

- 120/240 VAC load center (UL/ETL-listed); 60 Amp capacity
- AC service disconnect breaker
- AC surge arrestor (Joslyn)
- Redundant AC supplies to DC power system
- Convenience outlets (GFCI protected)
- Valere compact DC power system (with distribution)
- Redundant DC supplies to equipment
- Low voltage DC disconnect (-42V)
- Up to 380Ah battery reserve capacity (SBS 190)

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Spring Creek Census Block Border

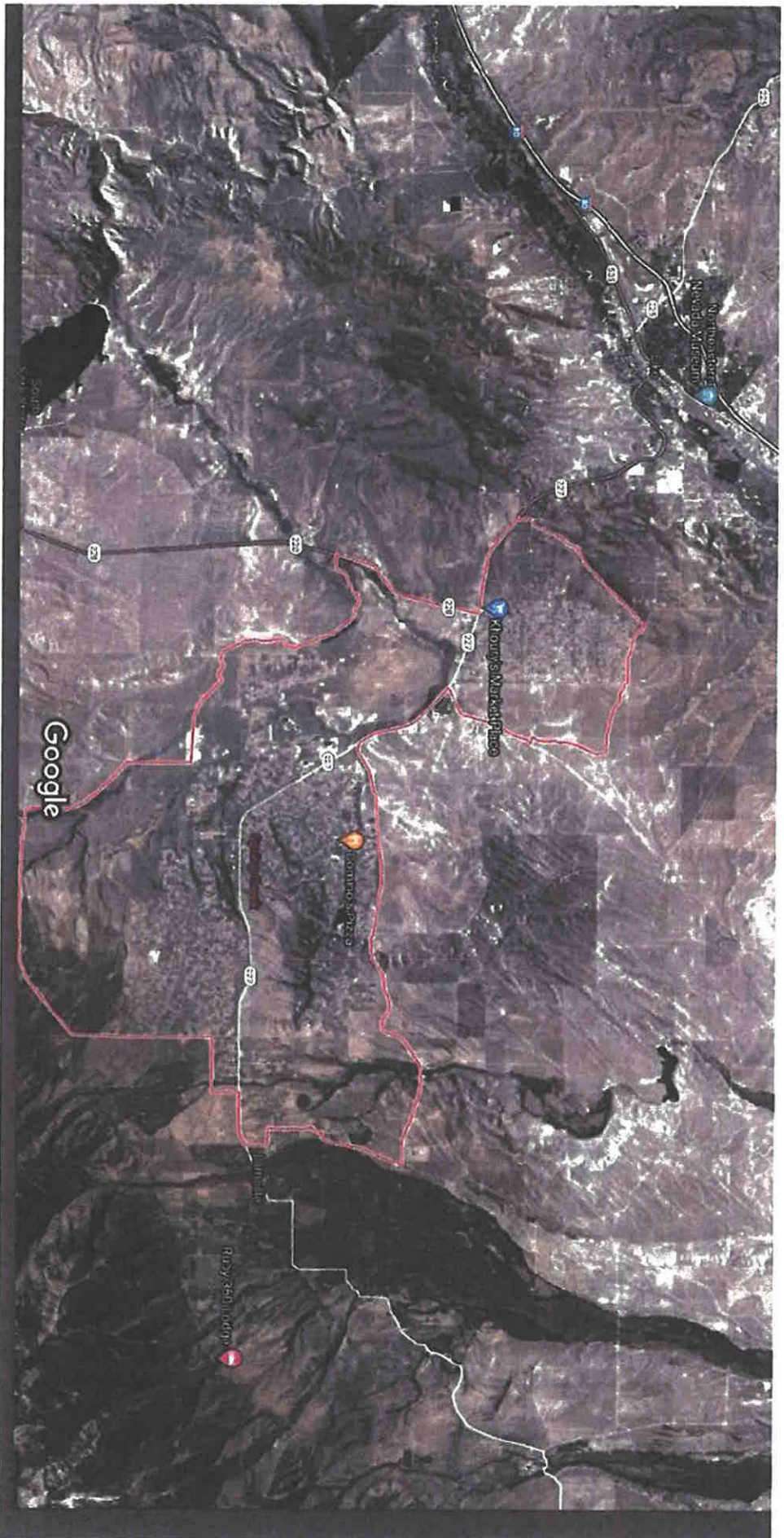
Each census block in attached PDF resides within red boundaries



Elko CO to Palace Pkwy & Lamoille Hwy
Filter path from CO at 120 Silver St to intersection of Palace Pkwy & Lamoille Hwy / 14 Miles



Spring Creek



**SPRING CREEK ASSOCIATION
ANALYSIS OF OCCUPIED LOTS BY TRACT
THROUGH JUNE, 2021
BY CATEGORY**

Tract	Spr Crk Association	Vacant Residential	Vacant Multi-Fam	Residential	Multi-Residential	Commercial Industrial	Utility	Ag Deferred	Total by Tract	% OCCUPIED
101	3	19	0	257	0	0	1	0	280	93.21%
101-A	0	7	0	63	0	0	2	0	72	90.28%
102	5	35	0	251	7	15	2	0	315	88.89%
103	4	14	0	302	0	2	1	0	323	95.67%
104	1	6	0	54	0	0	0	0	61	90.16%
105	1	8	0	70	0	0	0	0	79	89.87%
106-A	2	20	18	148	46	7	1	0	242	84.30%
106-B	5	28	0	253	0	0	1	0	287	90.24%
106-C	0	14	2	91	2	0	0	0	109	85.32%
106-D	0	1	0	0	1	13	0	0	15	93.33%
107	0	9	0	90	0	0	0	0	99	90.91%
107-A	0	1	0	10	0	0	0	0	11	90.91%
109	20	14	0	125	0	0	0	0	159	91.19%
Total 100	41	176	20	1714	56	37	8	0	2052	90.45%
201	6	3	0	290	0	19	1	0	319	99.06%
202	27	2	0	1154	0	2	7	0	1192	99.83%
Total 200	33	5	0	1444	0	21	8	0	1511	99.67%
301	2	17	0	101	0	6	0	0	126	86.51%
303	3	2	0	32	0	0	0	0	37	94.59%
304	7	19	0	197	0	0	0	0	223	91.48%
305	0	1	0	27	0	0	0	0	28	96.43%
Total 300	12	39	0	357	0	6	0	0	414	90.58%
401	13	56	0	466	0	0	0	1	536	89.55%
402	20	45	0	511	0	1	0	0	577	92.20%
403	30	51	0	375	0	4	2	0	462	88.96%
Total 400	63	152	0	1352	0	5	2	1	1575	90.35%
Total by Type	149	372	20	4867	56	69	18	1	5552	92.94%

Constuction Labor

Trench	135,812	\$18.70	\$2,539,684.40
Plow	907,670	\$7.70	\$6,989,059.00
Bore	7740	\$110.00	\$851,400.00
4-way Splitter	90	\$100.00	\$9,000.00
16-way Splitter	360	\$100	\$36,000.00
Fiber	1579820	\$1.10	\$1,737,802.00
Mobilization	22	\$550.00	\$12,100.00
			<hr/>
			\$12,175,045.40

Labor

Engineering	2278	\$165.00	\$375,870.00
Splicing	418	\$100.00	\$41,800.00
Inspector	350	\$100.00	\$35,000.00
Surveying	12	\$2,750.00	\$33,000.00
Permits	12	\$1,600.00	\$19,200.00
			<hr/>
			\$504,870.00

Materials

288F	762780	\$1.53	\$1,167,053.40
48f	655,040	\$0.32	\$209,612.80
12f		0.13	\$0.00
2F	162,000	\$0.08	\$12,960.00
4-way 16/13	917040	\$0.98	\$898,699.20
2-way 16/13	593040	\$0.47	\$278,728.80
4-Way Splitter	90	\$48.14	\$4,332.60
16-way splitter	360	\$95.71	\$34,455.60
1-way 16/13	162,000	\$0.19	\$30,780.00
XGS-PON OLT	5	\$69,229.50	\$346,147.50
17" Dome splice cas	450	\$140.33	\$63,148.50
Splice tray	450	\$21.20	\$9,540.00
ONT/NID	5400	\$486.00	\$2,624,400.00
Dig Tape (1000' roll	755	\$20.17	\$15,228.35
			<hr/>
			\$5,695,086.75

Sub-Total

\$18,375,002.15

Table of Project Participants

Name	Address	Role	Scope of Work	Funding Amount
Calix	2777 Orchard PKWY San Jose, Ca 95131	Collaborator	Design Assistance, equipment vendor	
CC Communications	50 W. Williams Ave Fallon, NV 89407- 1390	Applicant	Construction, installation, maintenance, operation	\$7,350,000.86
Elko County	540 Court St. Suite 104 Elko, NV 89801	Applicant	Political Subdivision Partner	
NNE Construction, Inc.	163 Osino Unit 5 Elko, NV 89801	Collaborator	Construction contractor	
Spring Creek Association	401 Fairway BLVD Spring Creek, NV 89815	Collaborator	Home Owners Association and permitting authority within Spring Creek Association Tracts 100-400	
Trisage Engineering	5418 Longley Ln Ste A Reno, NV 89511	Collaborator	Engineering consultant	

ELKO

SPRING CREEK TRACTS

Elko Summit Estates

TRACT 200

SPRING CREEK

Ruby Vista Ranch

TRACT 100

TRACT 300

Ruby Mountain Industrial Park

TRACT 400

Lamoille

Pleasant Valley Estates

