



## **Specifications and Contract Documents for**

# **Northwoods South System Hardening - 2026**

**BID OPENING – Monday, June 15, 2026 at 3:00 P.M**

**District Contact: [Contracts@tdpud.org](mailto:Contracts@tdpud.org), (530)582-3944**

**Truckee Donner Public Utility District  
11570 Donner Pass Road  
Truckee, California 96161  
(530) 587-3896**

# Table of Contents

Specific Section	Title
<b>Division 0 – Bidding Requirements, Contract Forms and Conditions of the Contract</b>	
00030	Notice to Bidders
00100	Instructions to Bidders
00300	Bid Forms
00310	Measurement and Payment
00350	Debarment Certification
00360	Iran Contracting Act Certification
00370	Public Works Contractor Registration Certification
00435	Bid Bond
00500	Agreement
00600	Performance Bond
00610	Payment Bond
00800	Special Provisions
<b>Division 1 – General Requirements</b>	
01010	Summary of Work/Technical Specification
01060	Regulatory Requirements
01070	Abbreviations of Institutions
01090	Reference Standards
01140	Outage Coordination and Switching
01150	Wildfire Prevention and Fire Safety
01300	Contractor Submittals 01305 Record Drawings 01310 Construction Schedule
01310	Construction Progress Schedule
01350	Health and Safety
01360	Environmental Procedures for Hazardous Materials
01400	Quality Control
01450	Permits
01505	Mobilization
01520	Security
01530	Protection of Existing Facilities
01540	Traffic Control
01550	Site Access and Storage
01560	Temporary Environmental Controls
01575	Waste Material Disposal
01600	Products, Materials, Equipment and Substitutions
01700	Project Closeout
<b>Division 2 – Earthwork 02100 Site Preparation</b>	
02100	Site Preparation
02200	Earthwork
02900	Site Revegetation

## **LIST OF DRAWINGS**

The following Drawings are provided separately in **Attachments**:

### **TABLE OF CONTENTS SYSTEM HARDENING NORTHWOODS SOUTH (SRIP 6)- 2026**

1. CONSTRUCTION STANDARDS
2. TAHOE DONNER FEEDER 1 – WO 2564671 BID DOCS
  - a. PROJECT SUMMARY SHEET
  - b. WIRE/TENSION MAPS
  - c. ANCHOR NAMES AND RELATIVE LOCATIONS MAPS
  - d. LOCATION SPECIFIC CONSTRUCTION INSTRUCTIONS
3. TAHOE DONNER FEEDER 2 – WO 2664680 BID DOCS
  - a. PROJECT SUMMARY SHEET
  - b. WIRE/TENSION MAPS
  - c. ANCHOR NAMES AND RELATIVE LOCATION MAPS
  - d. LOCATION SPECIFIC CONSTRUCTION INSTRUCTIONS
4. TAHOE DONNER FEEDER 3 – WO 2664681 BID DOCS
  - a. PROJECT SUMMARY SHEET
  - b. WIRE/TENSION MAPS
  - c. ANCHOR NAMES AND RELATIVE LOCATION MAPS
  - d. LOCATION SPECIFIC CONSTRUCTION INSTRUCTIONS

# **Northwoods South System Hardening - 2026**

## **Division 0**

### **Bidding Requirements**

**Truckee Donner Public Utility District  
11570 Donner Pass Road  
Truckee, California 96161**

## Section 00030 – Notice to Bidders

Notice is hereby given that the Board of Directors of **Truckee Donner Public Utility District**, Nevada County, California, herein referred to as the **DISTRICT**, will receive sealed bids at the District office, 11570 Donner Pass Road, Truckee, California 96161 until **3:00 PM, Monday, June 15, 2026**, at which time they shall be opened and publicly read for:

### **DISTRICT - Northwoods South System Hardening- 2026**

The WORK of this Contract comprises rebuilding facilities of the following:

- 101 Pole Replacements (Wood to Metal)
- ~14060 Feet of 4 wire 397.5 reductor (Bare to Tree Wire)
- ~1780 Feet of 4 wire 1/0 reductor (Bare to Tree Wire)
- Install/Replace 62 Anchors
- Ancillary items such as crossarms, insulators, transferring existing electrical equipment

Bidding Documents are provided to prospective Bidders to enable them to prepare a Bid. Documents required to be submitted with the Bid are identified in Section 00100 – Instructions to Bidders.

This project is a public works project and is subject to compliance monitoring and enforcement by the **California Department of Industrial Relations (DIR)**, in accordance with the California Labor Code Section 1770, et seq.

No contractor or subcontractor may be listed on a bid for a public works project and no contractor or subcontractor may be awarded a contract for public works unless registered with the DIR, pursuant to Labor Code Section 1725.5.

The successful Bidder shall not pay less than the **prevailing rate of per diem wages** as determined by the Director of the DIR. Copies of the prevailing rate of per diem wages are on file with the DISTRICT and may also be found on the DIR website at: [www.dir.ca.gov/dlsr/statistics\\_research.html](http://www.dir.ca.gov/dlsr/statistics_research.html). Questions pertaining to predetermined wage rates should be directed to the California Division of Labor Statistics and Research.

No bid will be considered unless it is made on the form provided and accompanied by a **Certified Check, Cashier's Check, or Bidder's Bond** for 10% of the amount of the Bid, made payable to the "Truckee Donner Public Utility District". The above-mentioned check or bid bond shall be given as a guarantee that the Bidder executes the Contract, if awarded, in conformity with the Contract Documents. If a Bidder's Bond is used, the bond shall be conditioned such that the Bidder will pay the DISTRICT as liquidated damages the amount specified in the bond unless it enters into a Contract in accordance with its Bid and furnishes **Performance and Payment Bonds** as described below.

Within 15 days after notification of the Award of the Contract, the successful Bidder will be required to furnish **Performance and Payment Bonds** in an amount equal to **100% of the**

**Contract Price.** Said bonds shall be secured from a Surety Company satisfactory to the DISTRICT.

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**Additional Information**

Pursuant to Section 22300 of the Public Contract Code of the State of California, the Contract will contain provisions permitting the successful bidder to substitute securities for any moneys withheld by the District to ensure performance under the Contract.

Each Bid must conform to the requirements of the Contract Documents, all of which may be examined at the offices of the DISTRICT:

**11570 Donner Pass Road, Truckee, California, 96161.**

Copies of the Contract Documents may be obtained in electronic format at no charge upon request.

The DISTRICT reserves the right to reject any and all bids, waive any irregularities or informalities in the bidding, be the sole judge of the suitability of the items offered, and to accept any bid that it determines to be in its best interest.

**-END OF SECTION-**

## **SECTION 00100 – INSTRUCTIONS TO BIDDERS**

### **1. NOTICE TO BIDDERS**

Truckee Donner Public Utility District, hereinafter referred to as "DISTRICT," advises that sealed bids subject to the conditions contained herein, will be received at the DISTRICT office until **June 15<sup>th</sup>, 2026, at 3:00pm** at which time they shall be opened and publicly read for:

### **NORTHWOODS SOUTH SYSTEM HARDENING PROJECT – 2026**

### **2. BID FORM**

Bidders shall use the bid forms bound in these documents as Bid Forms. Each Bid must include the following:

- All pages of the Bid Forms (Section 00300)
- Certification Regarding Debarment and Other Matters (Section 00350)
- Iran Contracting Act Certification (Section 00360)
- Public Works Contractor Registration Certification (Section 00370)
- An acceptable bid security. The form of Bid Bond provided in Section 00435 – Bid Bonds may be used, or the Bidder may use another form of bid security as described in Article 1.5 of this Section.

It is not necessary for the Bidder to submit the entire set of Contract Documents with its bid.

### **3. DEFINED TERMS**

Terms used in the Section 00100 – Instructions To Bidders, Section 00500 – Agreement, Section 00800 – Special Provisions have the meanings assigned to them in Article 1.1 of Section 00800 – Special Provisions.

### **4. COMPLIANCE WITH CONTRACTOR'S LICENSE LAWS**

- A. Pursuant to Section 7028.15 of the Business and Professions Code and Section 3300 of the Public Contract Code, Bidders must possess licenses issued by the State of California Contractors License Board for performance of this Contract.

Subcontractors must possess the appropriate licenses for each specialty subcontracted.

B. Joint venture Bidders must possess a joint venture license. Each party to a joint venture must be properly licensed for the work of this Project.

C. The following conditions shall also apply:

1. No contractor or subcontractor may be listed on a Bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)]
2. No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5; and
3. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

## **5. BID SECURITY**

Each Bid shall be accompanied by a certified or cashier's check payable to the order of the Truckee Donner Public Utility District, for a sum not less than 10% of the amount of the Bid, or accompanied by a Bid Bond on the form attached or other acceptable form in an amount not less than 10% of the amount of the Bid provided by a surety licensed to do business in the State of California and appearing on Treasury Department Circular 570, as amended, conditioned that the Bidder will pay the DISTRICT as liquidated damages the amount specified in the bond unless it enters into a contract in accordance with its Bid and furnishes the insurance certificate, and payment and performance bond herein mentioned, within fifteen (15) days from the date at which it is notified that it is the successful bidder.

### **EXAMINATION OF CONDITIONS**

- A. Bidders shall satisfy themselves as to the conditions by personal examination of the Contract Documents and site to become familiar with local conditions that may affect cost, progress, performance or furnishing of the proposed improvements and by other examinations and investigations that they may wish to make as to the nature of the work and the difficulties encountered.
- B. Submitting of a Bid shall constitute affirmation by the Bidder that they have complied with the following:
  1. Carefully examined the Contract Documents.
  2. Visited the site of the Work.

3. Included in the Bid sum amounts sufficient to cover all items required by the Contract Documents and any applicable permits.
- C. The failure or omission of any Bidder to receive or examine any form, instrument, addendum, or other documents or the site of the proposed Work shall in no way relieve any Bidder from any obligation with respect to its Bid or the Contract.

## **6. INTERPRETATION OR CORRECTION OF CONTRACT**

- A. The Bidder shall promptly notify the DISTRICT of any ambiguity, inconsistency, or error which they may discover in the Contract, or, if applicable, the site or local conditions.
- B. If the Bidder requires clarification or interpretation of the Contract, they shall make a written request to reach the DISTRICT at least seven (7) days prior to the scheduled bid opening. Questions may be sent via email to [Contracts@tdpud.org](mailto:Contracts@tdpud.org).
- C. Any interpretations, corrections, or changes to the Contract prior to the bid opening shall be made by addenda issued to all Bidders. Each Bidder shall acknowledge receipt of each addendum in the Bid Forms.
- D. Interpretations, corrections, or changes of the Contract prior to Bid opening made in any other manner than as described above will not be binding, and Bidders shall not rely upon such interpretations, corrections and changes.

## **7. PRE-BID CONFERENCE**

- A. A pre-bid conference will be held on May 26th, 2026 at 1:00pm. The conference will start at 11570 Donner Pass Rd, Truckee, California, 96161. A Site Visit will commence to the field after a short briefing at the District Headquarters.
- B. Attendance at the pre-bid-conference is OPTIONAL. Representatives of the DISTRICT will be present to discuss the Project. In response to questions arising at the conference, the DISTRICT will issue Addenda as the DISTRICT considers necessary. Bidder access to the fenced/gated portions of the work site will only be available at the Pre-Bid conference.
- C. A site tour may be included in the pre-bid conference. Bidders shall be responsible for furnishing their own transportation and persons attending the conference and site tour shall comply with appropriate social distancing and personal protection requirements.
- D. In the event of inclement weather, the DISTRICT reserves the right to change the format of the pre-bid conference. Such changes may include moving the pre-bid conference to an on-line platform such as Microsoft Teams or Zoom, and/or creating a self-guided tour where interested Bidders may tour the Project site on their own. Any modifications to the pre-bid conference format will be communicated as an Addendum.

## 8. LISTING OF SUBCONTRACTORS

- A. Bidders shall list, in the Subcontractor List of the Bid Forms, the name, the location of the place of business, the California contractor license number, and public works contractor registration number issued pursuant to Section 1725.5 of the Labor Code of, and the portion of the Work to be performed by, each Subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the contract documents, in an amount in excess of one-half of 1 percent of the prime contractor's total bid or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of 1 percent of the prime contractor's total bid or ten thousand dollars (\$10,000), whichever is greater.
- B. The attention of Bidder is directed to Public Contract Code §4100, et seq. (Subletting and Subcontracting Fair Practices Act), related to penalties for use of unauthorized Subcontractors or by making unauthorized substitutions.

## 9. BIDDER QUALIFICATIONS

- A. Bids will be received from qualified Bidders only. By submitting a Bid, Bidder warrants that it has:
  - 1. Adequate financial resources to accomplish Work required.
  - 2. Adequate equipment to accomplish Work required.
  - 3. Personnel with sufficient experience to accomplish Work required.
  - 4. Sufficient experience in the type of Work proposed.
  - 5. Not violated public works laws as set forth in Labor Code Section 1777.7 related to apprentice/journeyman ratio.
- 6. The appropriate contractors' license for the Work to be performed (P.C.C.§3300), which the DISTRICT has determined to include: A-General Engineering and C10 Electrical
  - (A) No pending claims regarding performance, failure to deliver, labor violations, etc.
  - 7. Bidders shall have a minimum of five (5) years of experience in the Powerline construction or rebuild of electrical distribution facilities of similar or greater size.
    - A. Bidders shall document at least five (5) projects in the past five (5) years in which they were the primary contractor in the Powerline

construction or rebuild of electrical distribution facilities which includes setting poles, reconductoring primary overhead lines, and performing work energized.

1. Include this information in the Experience Statement in Section 00300 – Bid Forms.

B. Bidders shall provide a reference for each of the projects. Include name, position, email and phone number. Include this information in the Experience Statement in Section 00300 – Bid Forms.

8. Bidders shall not subcontract greater than 60% of this project's work, as determined by the values submitted on the Subcontractor form and the values submitted on the bid schedule for the work that the subcontractor is responsible for.
9. Ability to provide proof of Workers' Compensation, public liability and property damage insurance.

## **10. NONCOLLUSION AFFIDAVIT**

In accordance with Public Contract Code Section 7106, Bidders are required to execute and submit the "Non-collusion Affidavit" included in the Bid Forms.

## **11. BID FORMS**

- A. Bidders are furnished with Section 00300 - Bid Forms. The Bid Forms may contain a schedule of items requesting lump sum prices. It may also state estimated quantities of various kinds of Work to be performed, or materials to be provided, with a schedule of items for which unit prices are required.
- B. The unit prices or lump sum pricing must include full compensation for providing all labor, materials, services, tools, equipment and whatever else is required to perform all work in accordance with the requirements of the Contract Documents.
- C. All Bids must be submitted on the Bid Forms furnished by the DISTRICT, and the Bidder is solely responsible to diligently follow all directions required by the DISTRICT with respect to the completion and submission of the Bid Forms, including these Instructions and as required under the Bid Documents. A Bid not submitted on the form furnished by the DISTRICT, or that does not comply with the DISTRICT's directions with respect to the completion and submission of the Bid Forms, may be considered non-responsive by the DISTRICT in its sole discretion. The DISTRICT reserves all rights to reject any or all Bids, and to waive any minor irregularity in the completion of the Bid Forms, within its sole discretion.
- D. The Bid Forms, and all other Bid Documents shall be executed in accordance with applicable Laws and Regulations, and as required under the Contract Documents, subject to the following:
  1. Numbers shall be stated both in writing and in figures where so required.

2. In case of a difference in written words and figures, the amount stated in written words shall govern.
  3. The completed forms shall be without interlineations, alterations, or erasures.
  4. A correction to mistakes made by Bidder on figures or statements shall be validated with signed initials by the person or persons signing the Bid Forms.
  5. The Bid shall be executed by the person or persons legally authorized to bind the Bidder, as required in Bid Forms.
  6. As stated in Bid Forms, by signing the Bid Forms, Bidder represents that the statements made therein and elsewhere in the Bid Documents are true and correct and subject to penalty of perjury under California law.
- E. Bids by corporations must be executed in the corporate name by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed by the secretary or an assistant secretary.
- F. Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature.
- G. The Bid shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on the Bid Forms).

## 12. MANNER OF SUBMITTING BIDS

- A. Prior to submitting Bids, bidders must make sure that:
1. The Bid is complete and signed (Original Signature).
  2. The Bid security in the proper amount is attached to the Bid package.
  3. The Bid schedule is complete, and the totals are correct.
  4. The Bidder has acknowledged the receipt of any Addenda.
  5. The Bidder has familiarized itself with all applicable laws and regulations. It is the sole responsibility of the Bidder to ensure that its Bid is received at the proper time and at the proper location. Bids received after the time fixed for receiving them will not be considered.
  6. Late Bids will be returned by the DISTRICT to the Bidder unopened.
  7. When submitting a bid, place the complete bid document in a sealed envelope, mark the envelope "Sealed Bid" and mail to **Northwoods South System Hardening- 2026 Bid, Attn: Contract Administrator, Truckee Donner PUD, 11570 Donner Pass Road, Truckee, CA 96161. Bid**

documents shall be submitted in hard copy. Bid packages submitted in electronic form shall not be acceptable.

**13. BID MODIFICATIONS**

Bids may be modified up until the time of bid opening. Modifications must be in writing and may be sent in writing only must comply with the bid requirements. Modifications received via telephone, facsimile machine, or electronic mail will not be allowed.

**14. BID WITHDRAWAL**

Bids may be withdrawn any time prior to the time set for Bid opening only by written request of the Bidder. Withdrawal of a Bid does not prejudice the right of the Bidder to file a new Bid at any time prior to the time fixed for receiving Bids in this Instruction to Bidders. Once Bids are opened, Bids may only be withdrawn in strict accordance with the provisions of Public Contract Code Sections 5100 through 5107. All Bids shall be deemed a firm offer for not less than forty-five (45) days after the date of the Bid opening.

**15. POSTPONEMENT OF OPENING**

The DISTRICT reserves the right to postpone the time and date of bid opening as the DISTRICT deems necessary. Such postponement will be conveyed to all Bidders by written or facsimile notice which will state the new opening time and date.

**16. BIDS TO REMAIN SUBJECT TO ACCEPTANCE**

All Bids will remain subject to acceptance for forty-five (45) days after the day of the Bid Opening, which may be extended by agreement between the Bidder and the DISTRICT. The DISTRICT may, in its sole discretion, release any Bid and return the Bid Security prior to that date.

**17. ENVIRONMENTAL PROVISIONS**

It shall be the duty of the Bidder to familiarize itself with, and to comply with applicable environmental laws for the Work.

**18. AWARD OF CONTRACT**

- A. Bidders must bid all of the items on the Bid Schedule. The DISTRICT intends to award one contract for the construction described in the Bid Schedule. The lowest Bid will be determined by the DISTRICT, based on the "Total Amount Of Bid" given on the bottom of the Bid Schedule Summary Table of the Bid Forms.
- B. The DISTRICT reserves the right to reject any and all Bids and to waive any and all irregularities. The DISTRICT reserves the right to reject any nonconforming, nonresponsive, incomplete, unbalanced or conditional Bids.
- C. In evaluating Bids, the DISTRICT will consider whether or not the Bids comply with the prescribed requirements, and include such Alternates, unit prices and other data, as may be required in the Bid Forms and supplements thereto. Further, the DISTRICT may reject any Bid, which, in its opinion, does not accurately reflect the

cost to perform the Work. The DISTRICT may reject as non-responsive any Bid which unevenly weights or allocates costs, including but not limited to overhead and profit to one or more particular bid items.

- D. In the event that the product of a unit and an estimated quantity does not equal the extended amount quoted, the unit price shall govern, and the correct product of the unit price and the estimated quantity shall be deemed to be the amount bid. If the sum of two or more items in a bidding schedule does not equal the total amount quoted, the individual item amounts shall govern and the correct total shall be deemed to be the amount bid.
- E. All quantities stated on the Bid Schedule are estimates only. The DISTRICT in no way guarantees that the actual quantities for Work performed will be equal to or similar to the estimated quantities.
- F. If the Contract is to be awarded, the DISTRICT shall issue a Notice to Award, and the Contract will be awarded to the lowest qualified, responsible and responsive Bidder that in the DISTRICT's judgment will be in the best interests of the Project.

## **19. INSURANCE**

The DISTRICT's requirements for insurance are set forth in Section 00500 - Agreement. The Successful Bidder shall purchase insurance from an insurance company or companies who meet the requirements as set forth in the Contract Documents, including, without limitation, Section 00500 - Agreement.

The Successful Bidder shall procure all insurance required under the Contract Documents and deliver all required insurance certificates to the DISTRICT and Engineer prior to beginning work. In no case will the Notice to Proceed be considered as allowing the Work to begin until the insurance certificates are received by the DISTRICT, even though the Contract Time as stated in the Notice to Proceed will commence to run.

## **20. SIGNING OF AGREEMENT**

When the DISTRICT gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within fifteen (15) days thereafter, the Successful Bidder shall sign and deliver the required number of counterparts of the Agreement together with the required Bonds to the DISTRICT. Within ten (10) days thereafter the DISTRICT will deliver one fully signed counterpart to the Successful Bidder.

## **21. RETAINAGE**

The percentage of retainage that will be withheld from each Progress Payment is set forth in the Agreement. Pursuant to provisions of Section 22300 of the California Public Contract Code, the Bidder may substitute securities for any monies withheld by the DISTRICT to ensure performance of the Work.

## **22. CONTRACT**

The Contract includes the Notice to Contractors, Instructions to Bidders, and Bidding Documents, Agreement, Performance and Payment Bond, Special Provisions, Technical Specifications, Change Orders, Field Orders, Drawings and Addenda and together they are the Contract Documents.

The Agreement, when executed, shall be deemed to include the entire agreement between the parties thereto, and the CONTRACTOR shall not claim any modification thereof resulting from any representation or promise made at any time by any officer, agent or employee of the DISTRICT or by any other person.

## **23. TIME OF COMPLETION**

Pursuant to the provisions of Section 00500 – Agreement, the Work must be completed by August 31, 2026. It is anticipated that Board of Directors will award a contract at its May 6, 2026 Board Meeting and the Bidders will be notified shortly after.

## **24. WAGE RATES**

- A. Pursuant to provisions of the California Labor Code, the Director of Industrial Relations has ascertained the prevailing rate of per diem wages in the locality in which the work is to be performed, applicable to the work to be done. Copies of these wage determinations are on file with the DISTRICT.
- B. Bidders shall notify the DISTRICT promptly, in writing, of labor classifications not listed in the prevailing wage determination but necessary for the performance of the Work. When a labor classification not listed in the prevailing wage determination is necessary for the performance of the Work, the Bidder may be required to pay, for the classifications not listed, the rate applicable to the classification most closely related to that which is not listed.
- C. The Bidder shall pay not less than the prevailing rate of per diem wages determined by the Director of Industrial Relations, and the Bidder shall be responsible for its Subcontractors paying not less than said per diem wages. The Bidder may be subject to penalties for paying less than the prevailing wages pursuant to provisions of California Labor Code, Section 1775.

## **25. BID PROTEST PROCEDURE**

- A. All disputes and/or protests regarding the bidding process shall be subject to the following procedures. In submitting a Bid to the DISTRICT, the Bidder agrees to comply with and to be bound by these procedures.
- B. Any Bid protest must be submitted in writing and received by the DISTRICT before 5:00 p.m. on the fifth (5th) working day following Bid opening (“Bid Protest Deadline”).
- C. The initial protest document must contain a complete statement of the basis for the protest, and all supporting documentation.

- D. The party filing the protest must have actually submitted a Bid for the Work. A subcontractor of a party submitting a Bid for the work may not submit a Bid protest. A party may not rely on the Bid protest submitted by another Bidder but must timely pursue its own protest.
- E. The protest must refer to the specific portion of the Contract Document which forms the basis for the protest.
- F. The protest must include the name, address and telephone number of the person representing the protesting party.
- G. The party filing the protest must, by or before the Bid Protest Deadline, and concurrent with its delivery to the DISTRICT, transmit (via fax or e-mail) a copy of the initial protest document and any attached documentation to all other parties with a direct financial interest which may be adversely affected by the outcome of the protest, including the protested Bidder. Such parties shall include, without limitation, all other Bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest. Evidence that the protesting Bidder has complied with this requirement shall be provided at the time the Bid protest is submitted to the DISTRICT.
- H. The protested Bidder may submit a written response to the protest, provided the response is received by the DISTRICT before 5:00 p.m., within five (5) working days after the Bid Protest Deadline or after receipt of the bid protest, whichever is sooner (the "Response Deadline"). The response must include all supporting documentation, and any materials submitted after the Response Deadline will not be considered. The response must include the name, address and telephone number of the person representing the protested Bidder.
- I. The procedure and time limits set forth in this paragraph are mandatory and are the Bidder's sole and exclusive remedy in the event of Bid protest. The Bidder's failure to timely comply with these procedures shall constitute a waiver of any right to further pursue the Bid protest including filing a Government Code Claim or legal proceedings.

**-END OF SECTION -**

**SECTION 00300 – BID FORMS**

TO: TRUCKEE DONNER PUBLIC UTILITY DISTRICT  
11570 Donner Pass Road  
Truckee, California 96161

**ENTER INTO CONTRACT**

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with the DISTRICT in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid, and in accordance with the other terms and conditions of the Contract Documents.

**ACCEPTANCE OF TERMS AND CONDITIONS**

Bidder accepts all the terms and conditions of the Notice to Bidders and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for forty-five (45) after the day of Bid opening.

**RECEIPT OF ADDENDA**

The undersigned Bidder acknowledges receipt of the following Addenda:

No. 1:	_____	signed	_____	dated
No. 2:	_____	signed	_____	dated
No. 3:	_____	signed	_____	dated
No. 4:	_____	signed	_____	dated
No. 5:	_____	signed	_____	dated
No. 6:	_____	signed	_____	dated
No. 7:	_____	signed	_____	dated
No. 8:	_____	signed	_____	dated
No. 9:	_____	signed	_____	dated

EXCEPTIONS

List any and all exceptions take to the Contract Documents and Specifications. Bidder shall indicate to which items the exceptions apply. If the Bidder takes no exceptions, state "No Exceptions".

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**BID SCHEDULE A**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT PRICE</b>	<b>SUBTOTAL</b>
A1	Mobilization/Demobilization (See 00310)	<b>1</b>	<b>EA</b>		
A2	Pole Hole Excavation	<b>101</b>	<b>EA</b>		
A3	Remove Pole Top to Communications Level and Install Metal Pole Design A1	<b>0</b>	<b>EA</b>		
A4	Remove Pole Top to Communications Level and Install Metal Pole Design A2	<b>0</b>	<b>EA</b>		
A5	Remove Pole Top to Communications Level and Install Metal Pole Design A3	<b>8</b>	<b>EA</b>		
A6	Remove Pole Top to Communications Level and Install Metal Pole Design C1	<b>53</b>	<b>EA</b>		
A7	Remove Pole Top to Communications Level and Install Metal Pole Design C2	<b>2</b>	<b>EA</b>		
A8	Remove Pole Top to Communications Level and Install Metal Pole Design C3	<b>26</b>	<b>EA</b>		
A9	Remove Pole Top to Communications Level and Install Metal Pole Design C4	<b>0</b>	<b>EA</b>		
A10	Remove Pole Top to Communications Level and Install Metal Pole Design C5	<b>7</b>	<b>EA</b>		
A11	Remove Pole Top to Communications Level and Install Metal Pole Design C6	<b>6</b>	<b>EA</b>		
A12	Remove Bare 4-wire Conductor and Install Covered Conductor 397.5 AAC 4-wire	<b>14060</b>	<b>FT</b>		
A13	Remove Bare 4-wire or 2-wire Conductor and Install Covered Conductor 1/0 ACSR 4-wire or 2-wire	<b>1780</b>	<b>FT</b>		
A14	Install Anchors (Screw Anchors preferred)	<b>62</b>	<b>EA</b>		
A15	Transfer or Install Transformer from old Pole to New Pole	<b>29</b>	<b>EA</b>		
A16	Transfer Secondary/Services from old Pole to New Pole	<b>249</b>	<b>EA</b>		
A17	Install/Transfer Down/Span Guys per standard	<b>144</b>	<b>EA</b>		
A18	Transfer TDPUD Fiber Line	<b>8</b>	<b>EA</b>		
A19	Rebuild Secondary Riser	<b>7</b>	<b>EA</b>		

**BID SCHEDULE A**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT PRICE</b>	<b>SUBTOTAL</b>
A20	Transfer Secondary Riser	<b>10</b>	<b>EA</b>		
A21	Rebuild Primary Riser 1Phase	<b>0</b>	<b>EA</b>		
A22	Rebuild Primary Riser 3Phase	<b>0</b>	<b>EA</b>		
A23	Transfer Primary Riser 1Phase	<b>3</b>	<b>EA</b>		
A24	Transfer Primary Riser 3Phase	<b>1</b>	<b>EA</b>		
A25	Tap Fuse Transfer/Equipment Arm Install 1Phase	<b>5</b>	<b>EA</b>		
A26	Tap Fuse Transfer/Equipment Arm Install 3Phase	<b>3</b>	<b>EA</b>		
A27	Rock Excavation (See 00310)	<b>10</b>	<b>EA</b>		
A28	Set Pole in Same Hole (Cut and Kick)	<b>10</b>	<b>EA</b>		
A29	All Other Work Required in Contract Documents	<b>1</b>	<b>LS</b>		
<b>Total Bid Price</b>					

**CALIFORNIA CONTRACTOR'S LICENSE AND ENTITY INFORMATION**

The terms used in this Bid are defined in the Section 00800 – Special Provisions and the Contract Documents and shall have the same meanings assigned to them. Bidder declares that it will possess a contractor’s license of the required classification, valid in the appropriate jurisdiction at the time of contract award.

Contractor's license number(s): \_\_\_\_\_

License classification(s): \_\_\_\_\_

License expiration date(s): \_\_\_\_\_

SUBMITTED on \_\_\_\_\_, 20\_\_\_\_\_.

Bidder must provide the following information if Bidder is:

**An Individual/Sole Proprietorship:**

Name (typed or printed): \_\_\_\_\_

By: \_\_\_\_\_ (SEAL)  
(Individual's signature)

Doing business as: \_\_\_\_\_

Business Address: \_\_\_\_\_

Phone Number: ( ) \_\_\_\_\_ FAX Number: ( ) \_\_\_\_\_

Email Address of Authorized Representative: \_\_\_\_\_

**A Partnership or LLC:**

Partnership or LLC Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_  
(Signature of general partner or member -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Business address: \_\_\_\_\_

Phone Number: (    ) \_\_\_\_\_ FAX Number: (    ) \_\_\_\_\_

Email Address of Authorized Representative: \_\_\_\_\_

**A Corporation:**

Corporation Name: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_

(Signature -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_ (CORPORATE SEAL)

Attest: \_\_\_\_\_

(Signature of Corporate Secretary)

Business address: \_\_\_\_\_

Date of Qualification to do business is \_\_\_\_\_

Phone Number: (    ) \_\_\_\_\_ FAX Number: (    ) \_\_\_\_\_

Email Address of Authorized Representative: \_\_\_\_\_

**A Joint Venture:**

Joint Venture Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Business address: \_\_\_\_\_

Phone Number: (    ) \_\_\_\_\_ FAX Number: (    ) \_\_\_\_\_

Email Address of Authorized Representative: \_\_\_\_\_

Joint Venture Name: \_\_\_\_\_(SEAL)

By: \_\_\_\_\_

(Signature of joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Business address: \_\_\_\_\_

Phone Number: (    ) \_\_\_\_\_ FAX Number: (    ) \_\_\_\_\_

Email Address of Authorized Representative: \_\_\_\_\_

Each joint venture must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.

#### **BIDDER'S DECLARATION**

I declare under penalty of perjury under the laws of the State of California that the statements and representations in this Bid Forms are accurate, true and correct.

Dated \_\_\_\_\_ at \_\_\_\_\_, California.

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

By signing the Bidders Declaration, the Bidder warrants the following:

**NONCOLLUSION DECLARATION**  
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares: I am the \_\_\_\_\_ of,  
\_\_\_\_\_ the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bid or any other bid, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bid. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay any person or entity for such purpose. Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on \_\_\_\_\_ [date],  
at \_\_\_\_\_ [city], \_\_\_\_\_ [state].

**SUBCONTRACTOR LIST**

(To be submitted with Bid)

Each Bidder shall set forth below with its Bid:

- A. In compliance with the provisions of Sections 4100 to 4114, inclusive, of the California Public Contract Code, and any amendments thereof, the undersigned Bidder lists the name, the location of the place of business, the California contractor's license number and public works contractor registration number issued pursuant to Section 1725.5 of the California Labor Code, and the portion of the Work to be performed by each Subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a Subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the contract documents, in an amount in excess of one-half of 1 percent of the prime contractor's total Bid. The Bidder shall only list one Subcontractor for each portion of the Work as is defined by the Bidder in its Bid.
- B. If the Bidder fails to specify a Subcontractor for any portion of the Work as above-stated, or if the Bidder lists more than one Subcontractor for the same portion of the Work, the Bidder agrees to perform that Work itself.
- C. Bidder understands that circumvention of the requirement to list Subcontractors by the device of listing one Subcontractor who will in turn sublet portions constituting the majority of the work is a violation of the Subletting and Subcontracting Fair Practices Act (Division 2, Part 1, Chapter 4, of the California Public Contract Code), and shall subject Bidder to the penalties set forth in said Act.

[NOTE: Reproduce page two of the Subcontractor List for additional listings needed beyond the length of this form.]

Subcontractor Name	Location of Subcontractor	
	License Number	
	DIR Registration Number	
	Portion of Work Activity (%)	

Subcontractor Name	Location of Subcontractor	
	License Number	
	DIR Registration Number	
	Portion of Work Activity (%)	
Subcontractor Name	Location of Subcontractor	
	License Number	
	DIR Registration Number	
	Portion of Work Activity (%)	

**EXPERIENCE STATEMENT**

Following is a list of the Bidder's qualifications and experience pursuant to the requirements of Section 00100 - Instructions to Bidders.

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**-END OF SECTION-**

## SECTION 00310 - MEASUREMENT AND PAYMENT

### PART 1 -- GENERAL

#### 1. SCOPE

- A. Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of permits and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of the California Division of Industrial Safety and the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA). No separate payment will be made for any item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of work.
- B. The CONTRACTOR shall Bid all items in the Bid Schedule. A Bid containing an incomplete Bid Schedule shall be considered Non-Responsive and shall be rejected.**

### PART 2 – BID SCHEDULE

#### 1. MOBILIZATION (Bid Item A1)

- A. No measurement shall be made for this item. The CONTRACTOR will be compensated for all mobilization and job set-up costs based on the lump sum price provided in the Bid Schedule.
- B. The amount entered in the Bid Schedule Summary Table for Mobilization shall not exceed five percent of the total amount given in "Total Amount of Bid – Alignment A."

#### 2. Pole Hole Excavation (Bid Item A2)

- A. Pole hole excavation can be done by hand digging, hydro-vac equipment, excavators, truck-mounted augers, portable power augers, and other motorized excavation equipment.

#### 3. Anchor Hole Excavation and Anchor Installation (Bid Item A14)

- A. Screw Anchors are preferred per manufactures guidelines, however due to soil conditions, full excavation may be necessary.

- B. Anchor hole excavation can be done by hand digging, hydro-vac equipment, excavators, truck-mounted augers, portable power augers, and other motorized excavation equipment.
  - C. Anchor installing must be complete per manufactures specifications provided on each map
4. Bulk Bag (~25CF) Base Rock (Provided by Contractor)
- A. One bag of Base Rock per pole hole location
5. Corrugated ADS N-12 30" x 6'8" (Provided by Contractor)
- A. Install one 30" x 6'8" section in each excavated pole hole and backfill and compact outer section of pipe
6. All excavations must be covered
- A. Cover all open holes with  $\frac{3}{4}$ " 4' x 4' plywood (Provided by Contractor)
7. Rock Excavation (Bid Item A18)
- A. Rock Excavation ( $\geq 3'$  diameter) is defined as the removal and lawful disposal of any individual rock, boulder, or ledge material measuring three feet (3') or greater in any dimension, encountered during excavation activities. Rock Excavation shall be performed by power-operated hammers, rock saws, drilling and blasting, hydro-vac truck, or other appropriate rock excavation methods approved by the District.
  - B. Measurement & Payment
    1. Unit of Measure: Payment for Rock Excavation will be made on a per hole basis for each excavation in which rock  $\geq 3'$  in diameter is encountered and requires removal, as verified by District personnel. Multiple boulders encountered within a single hole shall be considered part of that hole and compensated as one unit.
    2. Unit Price: The Contractor shall be compensated at the agreed unit cost per hole, which shall be full and complete compensation for furnishing all labor, materials, equipment, tools, and incidentals necessary to complete the work.
    3. No Additional Compensation: The Contractor SHALL NOT be entitled to any additional monies of compensation, including but not limited to:
      - o Stand-by time for crew members or equipment idled during the performance of rock excavation.
      - o Delays or inefficiencies associated with removal and disposal of rock.
    4. No Minimum Guarantee: The District does not guarantee the presence of rock  $\geq 3'$  in diameter. There is no minimum quantity of Rock Excavation.

5. Verification: All Rock Excavation shall be coordinated with and approved by District personnel prior to execution. Contractor shall notify the District immediately upon encountering rock  $\geq 3'$  in diameter. The size, quantity, and location shall be documented by the District for payment purposes.
6. District Option to Relocate: Upon encountering a rock  $\geq 3'$  in diameter, the District reserves the right to relocate the excavation hole or facility location in lieu of authorizing rock excavation and removal. In such cases, the Contractor shall proceed as directed by the District. If the District elects to relocate the hole, the Contractor will be compensated at the agreed Pole Hole unit rate in lieu of the Rock Excavation unit rate.

**-END OF SECTION-**

**SECTION 00350 – CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS**

(To be submitted with Bid)

The Bidder certifies to the best of its knowledge and belief that it, and its principals:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (2) Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any State or local government entity;
- (3) Have not within a three year period preceding this Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (4) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (A) or (B) of this certification; and
- (5) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award.

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Typed Name & Title of Authorized Representative

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Signature of Authorized Representative

Date

I am unable to certify to the above statements. My explanation is attached.

**-END OF SECTION-**

**SECTION 00360 - IRAN CONTRACTING ACT CERTIFICATION**

(To be submitted with Bid)

(Public Contract Code Section 2200 et seq.)

As required by California Public Contract Code Section 2204, the Contractor certifies subject to penalty for perjury that the option checked below relating to the Contractor's status in regard to the Iran Contracting Act of 2010 (Public Contract Code Section 2200 et seq.) is true and correct:

- The Contractor is not:
  - (A) Identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203; or
  - (B) A financial institution that extends, for 45 days or more, credit in the amount of \$20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.
  
- The DISTRICT has exempted the Contractor from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, the DISTRICT will be unable to obtain the goods and/or services to be provided pursuant to the Contract.
  
- The amount of the Contract payable to the Contractor for the Project does not exceed \$1,000,000.

Signed: \_\_\_\_\_

Titled: \_\_\_\_\_

Firm: \_\_\_\_\_

Date: \_\_\_\_\_

Note: In accordance with Public Contract Code Section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of \$250,000 or twice the Contract amount, termination of the Contract and/or ineligibility to bid on contracts for three years.

**-END OF SECTION-**

**SECTION 00370 - PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION**

(To be submitted with Bid)

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See <http://www.dir.ca.gov/PublicWorks/PublicWorks.html> for additional information.

No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Bidder hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

**Name of Bidder:** \_\_\_\_\_

**DIR Registration Number:** \_\_\_\_\_

Bidder further acknowledges:

- (A) Bidder shall maintain a current DIR registration for the duration of the project.
- (B) Bidder shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
- (C) Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: \_\_\_\_\_

Name of Bidder: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Dated: \_\_\_\_\_

**-END OF SECTION-**

**SECTION 00435 – BID BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, \_\_\_\_\_

\_\_\_\_\_ as Principal, and \_\_\_\_\_

as Surety, are hereby held and firmly bound unto \_\_\_\_\_

\_\_\_\_\_ as OWNER in the penal sum of \_\_\_\_\_

for payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this \_\_\_\_\_ day of \_\_\_\_\_, 2026.

The Condition of the above obligation is such that whereas the Principal has submitted to \_\_\_\_\_

a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the \_\_\_\_\_

NOW, THEREFORE;

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attachment hereto (properly completed in accordance with said BID) and shall furnish a BOND for faithful performance of said Contract and for the payment of all persons performing labor and/or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the DISTRICT may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal

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Surety

By: \_\_\_\_\_

**\*IMPORTANT:** Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

**-END OF SECTION-**

**SECTION 00500 – AGREEMENT**  
**ELECTRIC UTILITY CONSTRUCTION SYSTEM HARDENING PROJECT - 2026**

This Agreement is entered into as of the \_\_\_\_\_ day of \_\_\_\_\_ 2026, by \_\_\_\_\_ and between the Truckee Donner Public Utility District, a local public agency of the State of California (the "DISTRICT") and \_\_\_\_\_ ("CONTRACTOR").

The parties hereto agree as follows:

1. DESCRIPTION OF WORK

The CONTRACTOR agrees, for the consideration and under the terms and conditions hereinafter set forth, to furnish and transport all necessary labor, materials, tools, implements, and appliances required to perform and completely finish in a workmanlike manner to the satisfaction and approval of the District, free of any and all liens and claims of laborers, materialmen, suppliers, and subcontractors, and in conformity in all respects with all applicable federal, state, county and town ordinances, rules, and regulations, work hereafter referred to as the Electric Construction System Hardening (SRIP 6) - 2026 consisting of the construction of site work, including trenching, excavation, and backfill; concrete foundations and pavement; conduits, vaults and splice boxes; and ground grid improvements; Ancillary items such as fittings, terminations, and other appurtenances; hereafter referred to as the "Project", which is described in the Notice to Contractors, and in the Drawings and Specifications, all of which are incorporated herein by reference. The amount of the contract is:

\$ \_\_\_\_\_.

1. CONTRACT DOCUMENTS

A. The Contract Documents include the following:

1. Notice to Bidders (Section 00030);
2. Instructions to Bidders (Section 00100);
3. Bid Forms (Section 00300);
4. Noncollusion Affidavit (Section 00300);
5. Subcontractor List (Section 00300);
6. Experience Statement (Section 00300);
7. Measurement and Payment (Section 00310);
8. Certification Regarding Debarment, Suspension and Other Responsibility Matters (Section 00350);
9. Iran Contracting Certification (Section 00360);

10. Public Works Contractor Registration Certification (Section 00370);
11. Bid Bond (Section 00435);
12. Agreement (Section 00500);
13. Performance Bond (Section 00600);
14. Payment Bond (Section 00610);
15. Special Provisions (Section 00800);
16. Addenda numbers \_\_\_\_ through \_\_\_\_, inclusive;
17. Specifications;
18. Drawings;
19. Notice to Proceed; and
20. Executed Change Orders, if any, which may be effective after the date of this Agreement.

B. The CONTRACTOR shall keep on the Site a copy of the Contract Documents and shall at all times give the DISTRICT access thereto. The Contract Documents constitute the entire Agreement between the DISTRICT and the CONTRACTOR for the Work, and supersede all prior agreements, written or oral. It is the intent of the Contract Documents to include everything necessary for the proper execution of the Work as a complete functioning facility that serves the intended purpose. The CONTRACTOR shall provide all labor, material, equipment, and services required by the Contract Documents, or that may reasonably be inferred from the Contract Documents, as being required to perform the Work and produce the intended result. Words and abbreviations which have well known technical or trade meanings are used in the Contract Documents in accordance with such recognized meanings.

C. Whenever two or more standards or requirements appear in the Contract Documents, the highest standard, quality or requirement shall be applied and followed in the performance of the Agreement. In the case of conflict between terms of the Contract Documents, the following order of precedence shall apply:

1. In cases of discrepancy concerning dimension, quantity and location, the Drawings shall take precedence over the Specifications. Explanatory notes on the Drawings shall take precedence over conflicting drawn indications. Large-scale details shall take precedence over smaller scale details and figured dimensions shall take precedence over scaled measurement. Where figures are not shown, scale measurements shall be followed but shall in all cases be verified by measuring actual conditions of Work already in place. In cases of discrepancy concerning

application of materials and non-technical requirements over materials, the Specifications shall take precedence over the Drawings.

2. For all other conflicts between portions or terms of the Contract Documents that cannot be resolved as set forth above, the following order of precedence shall apply:
  - a. Agreement;
  - b. General Conditions;
  - c. Specifications; and
  - d. Drawings.

2. CONTRACT PRICE

3.

The DISTRICT shall pay to the CONTRACTOR as full compensation for the performance of the Agreement, subject to any additions or deductions as provided in the Contract Documents, and including all applicable taxes and costs, the sum of:

\_\_\_\_\_ Dollars (\$\_\_\_\_\_),  
hereinafter referred to as the Contract Price.

4. CONTRACT TIME

Time is of the essence in the performance of the Work. The CONTRACTOR agrees to commence work within TEN (10) calendar days of the date stated in the DISTRICT's Notice to Proceed, unless other arrangements are made with the DISTRICT in writing, and agrees to carry out the Project at all times with the greatest possible dispatch and to complete the entire Project under this Agreement, as may be amended, no later than September 1, 2026, ("Contract Time"). The CONTRACTOR is referred to Section 00800 - Special Provisions for intermediate milestones. By its signature hereunder, CONTRACTOR agrees that the Contract Time, including with respect to the intermediate milestones set forth in the Special Provisions, is adequate and reasonable to complete the Work, however the time for completion may be extended by written agreement of the DISTRICT due to extraordinary weather conditions.

5. LABOR

A. In addition to any other requirements concerning labor pursuant to the Contract Documents and applicable California and federal law, the CONTRACTOR declares the Work will be conducted pursuant to the following requirements:

1. **Wage Scale.** CONTRACTOR and its subcontractors shall pay not less than the prevailing rate of wages in accordance with the Labor Code, which rates have been determined by the Director of the California Department of Industrial Relations and shall be made available through the DISTRICT, and a copy of which is also included with the Contract Documents, the provisions of which are hereby specified as the rate of prevailing wage to be paid workers on this Project, and the provisions of Labor Code Sections 1720 et seq. and 1770 et seq., as well as

California Code of Regulations, Title 8, Section 16000 et seq. shall be complied with. The CONTRACTOR and each subcontractor shall forfeit as a penalty to the DISTRICT not more than two hundred dollars (\$200) for each calendar day, or portion thereof, for each worker paid less than the stipulated prevailing wage rate for any work done by him or her, or by any subcontract under him or her, in violation of the provisions of the Labor Code. The difference between such stipulated prevailing wage rate and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage rate shall be paid to each worker by the CONTRACTOR. CONTRACTOR shall post, at appropriate conspicuous points on the Project site, a schedule showing all determined general prevailing wage rates and all authorized deductions, if any, from unpaid wages actually earned.

2. **Payroll Records.** Pursuant to Labor Code Section 1776, the CONTRACTOR and each subcontractor shall maintain weekly certified payroll records showing the name, address, social security number, work classification, straight time and overtime hours paid each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed in connection with the Work. CONTRACTOR shall certify under penalty of perjury that records maintained and submitted by CONTRACTOR are true and accurate. CONTRACTOR shall also require subcontractor(s) (s) to certify weekly payroll records under penalty of perjury. In accordance with Labor Code section 1771.4, the CONTRACTOR and each subcontractor shall furnish the certified payroll records directly to the Department of Industrial Relations (“DIR”) on a weekly basis and in the format prescribed by the DIR, which may include electronic submission. CONTRACTOR shall comply with all requirements and regulations from the DIR relating to labor compliance monitoring and enforcement. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement (“DLSE”) of the DIR or shall contain the same information as the forms provided by the DLSE. Any copy of records made available for inspection and furnished upon request to the public shall be marked or obliterated in such a manner as to prevent disclosure of an individual’s name, address, and social security number. The name and address of the CONTRACTOR or any subcontractor shall not be marked or obliterated.
3. In the event of noncompliance with the requirements pertaining to the preparation and submission of certified payroll records, the CONTRACTOR shall have ten (10) days in which to comply subsequent to receipt of written notice specifying any item or actions necessary to ensure compliance with this section. Should noncompliance still be evident after such ten (10) day period, the CONTRACTOR shall forfeit one hundred dollars (\$100.00) for each day, or portion thereof, for each worker until strict compliance is effectuated. Upon the request of the DIR, such penalties shall be withheld from contract payments.
4. **Hours of Labor.** Eight-hour labor constitutes a legal day's work.
5. **Apprentices.** In accordance with the provisions of Section 1777.5, 1777.6 and 1777.7 of the Labor Code, and in accordance with the regulations of the California Apprenticeship Council, properly registered, apprentices may be employed in the

prosecution of the Work. Information relative to number of apprentices, identifications, wages, hours of employment and standards of working conditions shall be obtained from the Director of the Department of Industrial Relations, who is the Administrative Officer of the California Apprenticeship Council.

- B. **Prohibited Employment Discrimination.** Attention is directed to Section 1735 of the California Labor Code, which reads as follows: "No discrimination shall be made in the employment of persons upon public works because of the race, religious creed, color, national origin, ancestry, physical handicap, mental condition, marital status, or sex of such persons, except as provided in Section 12940 of the Government Code, and every contractor for public works violating this section is subject to all the penalties imposed for a violation of this chapter."
- C. The CONTRACTOR shall comply strictly with all applicable federal, state, and local requirements relating to the establishment of non-discriminatory practices in hiring and employment. During the performance of this Agreement, the CONTRACTOR and its subcontractors shall not deny the Agreement's benefits to any person on the basis of race, religion, color, ethnic group identification, national origin, ancestry, sex, age, physical or mental disability, medical condition, marital status, or sexual orientation, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, ethnic group identification, national origin, ancestry, sex, age, physical handicap, mental disability, medical condition, marital status, or sexual orientation. The CONTRACTOR shall ensure that the evaluation and treatment of employees and applicants for employment are free of such discrimination.
- D. The CONTRACTOR and its Subcontractors shall comply with the provisions of the Civil Rights Act of 1964 (42 United States Code, Section 1983), Executive Orders 11246, 11375 and 11478, the Fair Employment and Housing Act (California Government Code, Section 12900 et seq.), the regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285.0 et seq.), and the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (California Government Code, Sections 11135-11139.5).
- E. The CONTRACTOR and its Subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.
- F. The CONTRACTOR shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the Agreement.
- G. **Workers' Compensation Insurance.** In accordance with the provisions of Article 5, Chapter 1, Part 7, Division 2 (commencing with Section 1860) and Chapter 4, Part 1, Division 4 (commencing with Section 3700) of the California Labor Code, the CONTRACTOR is required to secure the payment of compensation to his employees and shall for that purpose obtain and keep in effect adequate Workers' Compensation Insurance. The undersigned CONTRACTOR is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for Workers' Compensation claims or to undertake self-insurance in accordance with the

provisions of that Code, and will comply with such provisions before commencing the performance of the Work in this Agreement.

- H. **Security for Compensation.** The CONTRACTOR hereby agrees that the provisions of Section 1775 of the California Labor Code will be complied with. The CONTRACTOR further agrees to secure the payment of compensation to its employees in accordance with the provisions of Section 3700 of the California Labor Code.

## 6. INDEMNITY

- A. To the fullest extent permitted by law, the CONTRACTOR shall indemnify, defend (with independent counsel approved by the DISTRICT) and hold harmless the DISTRICT, and its directors, officers, employees, agents, representatives, and volunteers (the "Indemnified Parties"), from and against any and all liabilities (including without limitation all claims, losses, damages, penalties, fines, and judgments, associated investigation and administrative expenses, and defense costs, including but not limited to reasonable attorneys' fees, court costs and costs of alternative dispute resolution), in law and in equity, of every kind, nature or type that arise out of, pertain to, or relate to the performance of the Work, the CONTRACTOR's operations to be performed under the Contract Documents, the negligence, reckless, or willful misconduct of the CONTRACTOR or the acts or omissions of any employee, agent or subcontractor of the CONTRACTOR regardless of whether or not caused in whole or in part by a party indemnified hereunder (collectively "Claims" for purposes of this section); excepting therefrom only such Claims arising from the sole or active negligence or willful misconduct of the Indemnified Parties or defects in design furnished by those persons. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this paragraph. The provisions of this paragraph shall survive completion of the Work and/or the termination of this Contract. The provisions of this paragraph are not limited by the provisions of the Contract Documents relating to insurance. The CONTRACTOR's indemnification obligations shall apply to all damages or claims for damages suffered as a result of or by the CONTRACTOR's performance or operations regardless if any insurance is applicable or not.
- B. It is intended that this section shall comply with California Civil Code §§ 2782, et seq., to the extent applicable to the CONTRACTOR's obligations as set forth in this Section. If it is determined by a Court of competent jurisdiction that any aspect of this Section exceeds the restrictions or limitations under California law applicable to indemnity obligations, only that portion which exceeds the restrictions or limitations under California law shall be null and void, and all remaining indemnity obligations shall be fully enforceable to the fullest extent allowed under California law.
- C. In any and all Claims against the Indemnified Parties by any employee of the CONTRACTOR, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any subcontractor under Workers' or Workmen's Compensation Acts, disability benefit acts or other employee benefit acts.

- D. The CONTRACTOR's liability to the Indemnified Parties under this Section shall not be limited by any legal limitation on the amount or type of damages, compensation or benefits payable under workers' compensation acts, disability benefit acts or other employee benefit acts.
- E. The CONTRACTOR's liability insurance shall provide coverage for the CONTRACTOR's defense and indemnification obligations.

## 7. INSURANCE

The CONTRACTOR shall, at its sole cost, obtain and maintain, in force and effect for the duration of the Agreement, including the Warranty period, insurance that shall protect the CONTRACTOR and its Subcontractors and suppliers, and the DISTRICT against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the Work hereunder by the CONTRACTOR, its agents, representative, employees or subcontractors and suppliers, and the following specific types of insurance coverages with limits not less than those set forth below, in a company or companies with a Best's rating of no less than A:VII and admitted to issue insurance in the State of California. Except for Builder's Risk Insurance as provided in this Section or as otherwise may be waived by the DISTRICT, in writing, in its sole discretion, the CONTRACTOR shall require compliance with all other Insurance Requirements as provided in this Section by its lower tier subcontractors.

- A. Workers' Compensation Insurance, including occupational illness or disease coverage, in accordance with the laws of the nation, state, territory or province having jurisdiction over the CONTRACTOR's employees and Employer's Liability Insurance with limits the greater of the statutory requirements, or \$1,000,000 per accident and, for bodily injury by disease, \$1,000,000 per employee. Coverage shall include all work covered under the U.S. Longshoreman's and Harbor Workers' Compensation Act and Jones Act in the event that they are applicable to the Work, or any aspect of the Work. The CONTRACTOR shall not utilize occupational accident or health insurance policies, or the equivalent, in lieu of mandatory Workers' Compensation insurance, or otherwise attempt to opt out of the statutory Workers' Compensation system. This insurance shall contain a waiver of subrogation (also known as "Transfer of Rights of Recovery Against Others to Us") against the DISTRICT and its Board members, officers, employees, agents and consultants. The obligations of CONTRACTOR, or its Subcontractors, under this provision shall apply regardless of whether or not the DISTRICT has received a waiver of subrogation from the insurer.
- B. Commercial General Liability Insurance (Occurrence Form) at least as broad as ISO Form CG 00 01 12 04, or DISTRICT approved equivalent, with a full defense and indemnity, which shall include, and be subject to, the following:
  - 1. A minimum combined single limit of liability of \$2,000,000 or the limits required by law, whichever is greater for each occurrence for bodily injury and property damage;

2. A minimum limit of liability of \$1,000,000 each person for personal and advertising injury liability;
  3. A minimum limit of liability of \$1,000,000 each occurrence for products/completed operations liability. The products/completed operations liability shall be maintained in full force and effect for not less than 10 years following completion of any of the CONTRACTOR's work;
  4. A general aggregate limit of not less than \$2,000,000, which shall be provided on a per project basis by means of ISO Form CG 25 03 11 85 or DISTRICT approved equivalent;
  5. XCU coverage for claims arising from explosion, collapse and underground damage;
  6. Contractor Pollution Liability Insurance coverage by the CONTRACTOR for all Work with a minimum limit of liability of not less than \$2,000,000 per occurrence, and \$10,000,000 policy aggregate;
  7. Contractual liability coverage for all oral and written contracts including the indemnity provisions contained herein;
  8. Deductibles shall not exceed \$25,000 per occurrence and shall be the sole responsibility of the CONTRACTOR;
  9. Cross Liability, Separation of Insureds endorsement, or coverage for Severability of Interest shall be included;
  10. Claims made policies are not acceptable;
  11. Coverage for Work performed on or within 50 feet of a railroad, by deletion of any limitation or exclusion of coverage on or within 50 feet of a railroad or by a Railroad Protective Liability policy which complies with this Section; and
  12. An endorsement that names the DISTRICT and its directors, officers, employees, agents and consultants as additional insureds. Such endorsement shall be made upon an ISO Endorsement CG 20 10 11 85 or approved equivalent (CG 20 10 04 13 is not equivalent or acceptable), Additional Insured - DISTRICT, Lessees or CONTRACTOR (Form B) and shall state "insurance is primary and all other insurance shall be noncontributory" and shall waive all rights of subrogation against the additional insureds. Any insurance, or self-insurance, maintained by the DISTRICT, its directors, officers, employees, and authorized volunteers shall be in excess of the CONTRACTOR's insurance and shall not contribute with it.
- C. Automobile Liability Insurance (Business Auto Coverage, Form CA 00 01) covering use of all owned, non-owned and hired automobiles (Symbol 1) with a minimum combined

single limit of liability for bodily injury and property damage of at least \$1,000,000 per occurrence, and shall include, and be subject to, the following:

1. An endorsement that names the DISTRICT and its directors, officers, employees, agents and consultants as additional insureds, states such "insurance is primary and all other insurance shall be noncontributory", and waives all rights of subrogation against the additional insureds. Any insurance, or self-insurance, maintained by the DISTRICT, its directors, officers, employees, and authorized volunteers shall be in excess of the CONTRACTOR's insurance and shall not contribute with it.;
2. (2) Cross Liability, Separation of Insureds endorsement, or coverage for Severability of Interest;

D. Not Used.

E. Certificates of Insurance and Endorsements

1. Prior to performing any Work, the CONTRACTOR and its subcontractors shall file with the DISTRICT, Certificates of Insurance in a form satisfactory to the DISTRICT (ACCORD form) along with a copy of all endorsements as required in this Section. All certificates and endorsements are to be received and approved by the DISTRICT before work commences. However, failure to obtain the required documents prior to the Work beginning shall not waive the CONTRACTOR's obligation to provide them. The DISTRICT reserves the right to require complete, certified copies of all required insurance policies, including policy declaration pages and endorsement pages, required by these specifications, at any time. Failure to continually satisfy the insurance requirements of the Agreement is a material breach of contract.
2. The certificates shall name each additional insured required by this Agreement, shall state "insurance is primary and all other insurance shall be noncontributory", shall waive all rights of subrogation against the additional insureds; and shall also contain a provision that the DISTRICT shall be notified in writing 30 days before the policies may be canceled or allowed to expire or any reduction in coverage. An additional certificate shall be submitted with the final Application for Payment showing required continuation of coverage beyond the Final and Payment. If CONTRACTOR maintains broader coverage and or/higher limits than the minimums required in the Contract Documents, the DISTRICT requires and shall be entitled to the broader coverage and/or higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum of insurance and coverage shall be available to the DISTRICT.

## 8. PERFORMANCE AND PAYMENT BONDS

- A. The CONTRACTOR shall furnish Performance and Payment Bonds, each in an amount equal to the Contract Price as security for the faithful performance and payment of the CONTRACTOR's obligations under the Contract Documents. The Payment Bond shall

remain in full force and effect throughout the entire performance of the Work, and within the timelines established under California law to allow a Claimant to assert a claim against the Payment Bond. The Performance Bond shall remain in full force and effect for a period until final completion and final acceptance of all work, or until the expiration of all Warranties as required by the Contract Documents, whichever period may be later. All Bonds shall be in the forms prescribed by law and by the Contract Documents and be executed by Sureties named in the current list of "Certified Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds or Certified Reinsurer Companies Holding Certificates Of Authority As Acceptable Reinsuring Companies" published in Circular 570 (most recent amendment) by the Audit Staff Bureau of Accounts, U.S. Treasury Department([www.fms.treas.gov/c570/index.html](http://www.fms.treas.gov/c570/index.html)) and is admitted to issue bonds in the states in which the Project is located and all Work is performed. If the Surety is declared bankrupt or becomes insolvent or its right to do business is terminated by the state where the Work is located or if it ceases to meet the foregoing listing requirement, the CONTRACTOR shall provide another Bond acceptable to the DISTRICT meeting the stated requirements. All Bonds signed by an agent must be accompanied by a certified copy of the agent's authority to act.

- B. Sureties shall specifically waive all rights of notice of and consent to any and all changes, extensions of time, or modifications, deletions, alterations or additions to the terms of the Contract. The CONTRACTOR shall be solely responsible for notifying Sureties of all events that may affect them, and unless the Contract Documents provide otherwise, the DISTRICT bears no obligation to provide any such notification to Surety.

## 9. WARRANTY

- A. CONTRACTOR warrants that all labor, materials and equipment furnished under the Contract Documents shall be warranted one year. The CONTRACTOR warrants that all materials and equipment are new unless otherwise specified in the Contract Documents; and that all Work conforms to the Contract Document requirements and is free of any defect whether performed by the CONTRACTOR or any subcontractor or supplier.
  - 1. Unless otherwise stated in the Contract Documents, all warranty periods shall begin upon the filing of the Notice of Completion.
  - 2. The CONTRACTOR shall remedy and correct, at its own expense, any damage to real or personal property caused by its work, or that of any subcontractor or supplier.
  - 3. The CONTRACTOR shall furnish the DISTRICT with all warranty documents required pursuant to the Contract Documents as directed by the DISTRICT, and prior to Substantial Completion of the Project.
  - 4. The DISTRICT shall notify the CONTRACTOR, in writing, within a reasonable time after the discovery of any failure, defect, or damage. CONTRACTOR shall within seven (7) calendar days after being notified commence and perform with due diligence all necessary Work to complete or correct the Work at issue. If the CONTRACTOR fails to promptly remedy any defect, or damage, the DISTRICT may, in its sole discretion, exercise its right to replace, repair, or otherwise remedy

the defect, or damage at the CONTRACTOR's expense. However, in the event of any emergency constituting an immediate hazard to health, safety, property, or licensees, when caused by Work of the CONTRACTOR not in accordance with the Contract Documents, the DISTRICT may undertake and the CONTRACTOR and his surety shall be liable to the DISTRICT for the cost thereof expense, and without prior notice, all actions necessary to correct such condition.

5. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for Work performed and Materials furnished under the Contract Documents, the CONTRACTOR shall:
  - a. Obtain for the benefit of the DISTRICT all warranties that would be given in normal commercial practice and/or that are required pursuant to the Contract Documents;
  - b. Require all warranties to be executed, in writing, for the benefit of the DISTRICT; and
  - c. Enforce all warranties for the benefit of the DISTRICT, unless otherwise directed in writing by DISTRICT.
6. The warranty provisions under this Agreement shall in no way limit the DISTRICT's rights under the Contract Documents or otherwise under California law, including without limitation, with respect to patent or latent defects, gross negligence, or fraud. The DISTRICT specifically reserves all rights related to defective work, including but not limited to the defect claims pursuant to California Code of Civil Procedure Sections 337.1 or 337.15.
7. **Storage of Materials, Products, and Equipment.** CONTRACTOR shall provide proper storage facilities and exercise such measures, as may be reasonably required by the DISTRICT upon review of CONTRACTOR's storage measures, to ensure the preservation of the specified quality and fitness of materials, products and equipment to be used in the Work. Stored materials, products and equipment shall be located so as to provide reasonable access for observation by the DISTRICT. In case of suspension of the Work, CONTRACTOR shall store and protect materials and equipment as necessary to maintain the quality, integrity, and availability when performance of the Work is resumed. See Section 001600 for additional details.

## 10. CHANGES IN THE WORK

- A. **Changes.** No modification, amendment, deviation, or change concerning the Contract Documents will be permitted by the CONTRACTOR without prior written consent of the DISTRICT. However, the DISTRICT, without invalidating the Agreement and with or without notification to the CONTRACTOR's sureties, may order changes in the Work or make changes by altering, adding to, or deducting from the Work, or changes to the Contract Documents to provide for additions, deletions, and revisions or to modify terms and conditions, including changes to the Work, the Contract Price, and/or the Contract

Time. Modifications, amendments, deviations, or changes to the Contract Documents may only be authorized by a written Change Order or Work Directive Change.

- B. The CONTRACTOR expressly agrees that it shall not consider any order, instruction, Clarification, Response to a Request for Information or any other communication either written or oral given intentionally or unintentionally by the DISTRICT or any other person as authorization or direction to do work that would cause a change in Contract Time or Contract Price unless it is a Change Order or Work Directive Change signed by the DISTRICT.
- C. **Requests for Quotation.** If a change involving Contract Price or Contract Time is being considered, the DISTRICT will issue a Request for Quotation describing the proposed change. The CONTRACTOR shall submit a quotation within ten (10) days of receipt of a Request for Quotation, or sooner if requested by the DISTRICT so as not to delay or interfere with the progress of the Work, and in accordance with the requirements for determining the cost of changes described in this Article.
- D. **Change Orders.** If the DISTRICT and the CONTRACTOR agree on the change in Contract Price and Contract Time for a proposed change, a Change Order will be issued and signed by the CONTRACTOR and the DISTRICT. An executed Change Order shall be conclusive and constitute a final settlement of the change in Contract Time and Contract Price for the work covered by the Change Order, including, without limitation, the effect of the change on all other portions of the Work completed or not and shall include compensation for all related claims for disruption, impact, delay or extended overhead, if any, that may result from the change. Unless expressly reserved by the CONTRACTOR and agreed to by the DISTRICT, an executed Change Order shall also constitute a waiver by the CONTRACTOR (and its Subcontractors and suppliers, of every tier) of any Claims or potential Claims arising from or concerning all matters relating to the change in the Work which is the subject of the Change Order, including, but not limited to, all direct and indirect costs associated with such change, any adjustments to the Contract Price, and any and all adjustments to the Contract Time. The CONTRACTOR acknowledges that explicitly included in every Change Order in accordance with this Article is a waiver of Section 1542 of the California Civil Code (as well as under any other state or federal statute or common law principle of similar effect) which provides as follows: "GENERAL RELEASE; EXTENT A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, must have materially affected his or her settlement with the debtor or released party."
- E. Any change or modification in the Work shall be performed under applicable provisions of the Contract Documents, and the CONTRACTOR shall proceed promptly, unless otherwise provided in the Change Order or Work Directive Change.
- F. **Eliminated Items.** The DISTRICT reserves the right to eliminate any item of Work prior to the award of the Agreement without incurring any obligation to pay therefor. Should any item of the Work be eliminated in its entirety following the award of the Agreement and in the absence of an executed Change Order covering such elimination, payment will be made to the CONTRACTOR for reasonable costs actually incurred, and which are validated by the DISTRICT as being incurred, in connection with such eliminated

item of Work but only to the extent that such reasonable costs were incurred prior to the date of notification in writing by the DISTRICT of such elimination.

- G. In the event that a change or modification in the Work results in a reduction of the amount of labor and material to be supplied by the CONTRACTOR, the DISTRICT shall be given a credit equal to the actual value of such labor and materials plus a reasonable amount for the use of tools, materials and reasonable overhead and profit as set forth below; or, in the event that a modification results in an increase in the amount of labor and materials to be supplied by the CONTRACTOR, the DISTRICT shall pay the CONTRACTOR the actual value of such labor materials and equipment plus reasonable overhead and profit as set forth below. Unless otherwise agreed to by the DISTRICT and the CONTRACTOR, or as may otherwise be directed by the DISTRICT, all costs shall be included as unit prices acceptable to the DISTRICT and the CONTRACTOR, lump sum prepared by the CONTRACTOR and found acceptable by the DISTRICT, or by cost accounting pursuant to a Work Directive Change in accordance with this Article.
- H. In the event that the DISTRICT and the CONTRACTOR are unable to agree upon an increase or decrease to the Contract Price and/or modification to the Contract Time pursuant to any change or modification in the Work, the DISTRICT may, in addition to all other rights and remedies it has at law and pursuant to the Contract, take the following actions: (i) issue a written order to the CONTRACTOR to promptly proceed with the Work as directed by the DISTRICT pursuant to a Work Directive Change including, without limitation, on a cost accounting basis (e.g., force account) as set in this Agreement. Any claim by the CONTRACTOR for an increase in the Contract Price or an extension of the Contract Time shall be made in writing and in accordance with the provisions of this Agreement; or (ii) partially terminate the Contract for the items in question, and any such partial termination shall not be interpreted as a breach of contract and shall not give rise to any Claim on behalf of the CONTRACTOR for an adjustment in Contract Price, Contract Time, or both; or (iii) the DISTRICT may proceed to have the items in question performed by its own forces or by others, in its sole discretion.
- I. **Work Directive Change.** To the extent the DISTRICT elects not to issue a Change Order for the performance of Work that the CONTRACTOR contends is changed or modified Work, or if the DISTRICT and the CONTRACTOR have not agreed on the change in Contract Price and/or Contract Time, if any, required for a proposed change, or if time constraints do not permit preparation of an appropriate quotation, the DISTRICT may, without invalidating the Agreement, order changes or modifications to the Work and direct the CONTRACTOR to proceed accordingly by issuing a Work Directive Change. The CONTRACTOR shall, promptly upon receipt of a Work Directive Change, perform the identified Work as directed, including pursuant to the force account procedures under this Agreement, in strict compliance with the Work Directive Change and the Contract Documents, as expeditiously and timely as possible, and shall submit a complete and specific Claim for any increase in Contract Price or adjustment of Contract Time, or both, within ten (10) calendar days after such Work is performed.
- J. A Work Directive Change shall be used in the absence of total agreement on the terms of a Change Order, and shall be signed by the DISTRICT. If the Work Directive Change provides for an adjustment to the Contract Price, the adjustment shall be based on one of the following methods at the sole discretion of the DISTRICT:

1. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
  2. Unit prices stated in the Contract Documents or subsequently agreed upon;
  3. Costs pursuant to the force account basis as set forth in this Agreement; or
  4. Costs to be determined in a manner agreed upon by the DISTRICT and the CONTRACTOR and a mutually acceptable fixed or percentage fee, or as otherwise directed by the DISTRICT.
- K. The amount of credit to be given to the DISTRICT for a deletion or change pursuant to a Work Directive Change that results in a net decrease in the Contract Price shall be based on actual net cost as confirmed by the DISTRICT and the CONTRACTOR's overhead and profit on such costs. When both additions and credits covering related work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.
- L. Pending final determination of the total cost of a Work Directive Change, the CONTRACTOR may request payment for the Work completed under the Work Directive Change through an appropriate Application(s) for Payment. The DISTRICT will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the recommended amount that the DISTRICT determines, in their professional judgment, to be reasonably justified, if any.
- M. When the DISTRICT and the CONTRACTOR agree concerning the adjustments in the Contract Price and/or Contract Time, or both, the Work Directive Change shall be converted into a Change Order as promptly as reasonably possible. Change Orders may be issued for all or any part of a Work Directive Change. Failure of the CONTRACTOR to notify the DISTRICT in writing of any disagreement with any proposed adjustment to the Contract Price and/or Contract Time, or both, as applicable, or method for determining them as set forth in a Work Directive Change, within seven (7) days after the date of receipt by the CONTRACTOR of such Work Directive Change shall be deemed to be an agreement by the CONTRACTOR to the proposed adjustment to the Contract Price and/or Contract Time, or both, as applicable, or method for determining them as set forth in such Work Directive Change, and shall constitute a waiver by the CONTRACTOR of any Claims related thereto.
- N. **Information, Interpretations and Minor Changes.** The DISTRICT has the authority to order minor changes in the Work, including interpretations which are consistent with the intent of the Contract Documents. If the CONTRACTOR considers that any minor changes so ordered causes a change in Contract Price or Contract Time, or both, the CONTRACTOR shall notify the DISTRICT in writing within ten (10) calendar days of receipt of the order.
- O. If, after reviewing the CONTRACTOR's objection or response to a minor change, the DISTRICT determines the Work is required by the Contract Documents and does not

involve a change in Contract Price or Contract Time, the DISTRICT may direct the CONTRACTOR, in writing, to proceed with the work. If so directed, the CONTRACTOR shall promptly proceed with the work, and should the CONTRACTOR believe it is entitled to see a change in Contract Price or Contract Time, or both, the CONTRACTOR may assert a Claim in accordance with this Agreement, and shall document all costs in accordance with this Article.

P. **Determining Cost of Changes; Force Account.** The CONTRACTOR's quotations of cost on proposed changes and cost reported for work performed on a cost accounting basis (e.g., force account) shall be determined as the sum of the following:

1. Costs of labor including foremen engaged on the work but not of the Superintendent, field project manager, and other supervisory or support personnel except as provided in Article 11.P.5. Labor costs shall include the cost of social security, old age and unemployment insurance, fringe benefits required by labor agreements and workers' or workmen's compensation insurance;
2. Costs of materials, supplies and equipment, including cost of transportation, incorporated in the Work;
3. Rental costs for power tools and special or heavy equipment, except small tools and minor items of equipment, the CONTRACTOR will be paid in accordance with the current edition of "Labor Surcharge and Equipment Rental Rates" published by the State of California, Department of Transportation, Caltrans. No separate payment will be made for the use of small tools and minor items of equipment which cost shall be considered included in the overhead allowance. As used herein, small tools and minor items of equipment shall be individual tools or items of equipment having each a replacement value of \$200 or less;
4. Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the change;
5. The increased or decreased cost of the CONTRACTOR's supervision and field office personnel but only if the change affects the "critical path" of construction activities and requires a change in Contract Time;
6. The reasonable cost of any tier of Subcontractors' work computed as required for the CONTRACTOR's work. The mark-up charged by all Subcontractors for overhead and profit shall be the lesser of: i) subject to negotiation, ii) as included in the original Bid for the Work, or iii) an amount not to exceed a cumulative total of 15% of the direct costs of all Work performed by Subcontractor, or by Subcontractor and its sub-subcontractors where multiple tiers of Subcontractors are involved in the performance of the Work, and
7. For the reasonable Work performed by the CONTRACTOR, the mark-up for overhead, profit and all other costs shall be the lesser of: i) subject to negotiation, ii) as included in the original bid for the Work and contained in escrowed bid documents, or iii) an amount not to exceed: (A) For work self-performed by the

CONTRACTOR, a total amount of 15% of the direct costs of the changed work performed; or (B) For work performed by both the CONTRACTOR and its Subcontractors, of all tiers (where the CONTRACTOR and its Subcontractors, of all tiers, participate in the performance of the changed work), a total amount of 20% of the direct costs of the changed work performed.

- Q. **Limitations on Markup for Changes.** Where the CONTRACTOR self-performs a change in the Work, the maximum total amount of adjustment to the Contract Price for markup for overhead, profit, and all other costs shall not exceed fifteen percent (15%) of the direct costs of the changed work performed by the CONTRACTOR. Where the CONTRACTOR and its Subcontractors, of all tiers, participate in the performance of a change in the Work, the maximum total amount of adjustment to the Contract Price for markup for overhead, profit, and all other costs shall not exceed twenty percent (20%) of the direct costs of the changed work performed by the CONTRACTOR and its Subcontractors, of all tiers. Work shall be done making the most effective use of labor; materials shall be purchased at the lowest available price and all discounts shall be passed on to the DISTRICT; equipment shall be rented at the most favorable rate available for the term of use required.
- R. When both additions and deletions are related and pertain to the same Work item and are included in the same Change Order or Work Directive Change, the markup for overhead and profit shall be computed on the net increase, if any.
- S. The CONTRACTOR shall keep the DISTRICT informed as to when and where work is being performed on a cost accounting basis and shall submit complete auditable records of the cost of such work including daily time sheets signed daily by the DISTRICT.
- T. **Contractor Maintenance of Daily Records for Changes.** In the event that the CONTRACTOR is directed to perform any changes to the Work, or should the CONTRACTOR encounter conditions which the CONTRACTOR believes would obligate the DISTRICT to adjust the Contract Price and/or the Contract Time, the CONTRACTOR shall maintain detailed records of the cost of such changes on a daily basis and a summary in a daily report supplemented by back-up records. Such records shall include without limitation hourly records for labor and construction equipment, itemized records of materials, including delivery tickets, and equipment used each day in connection with the performance of any change to the Work. In the event that more than one change to the Work is performed by the CONTRACTOR in a calendar day, the CONTRACTOR shall maintain separate records of labor, construction equipment, materials, and equipment for each such change. In the event that any Subcontractor of any tier shall provide or perform any portion of any change to the Work, the CONTRACTOR shall require that each such Subcontractor maintain records in accordance with this Article. Each daily record maintained hereunder shall be signed by the CONTRACTOR; such signature shall be deemed the CONTRACTOR's representation and warranty that all information contained therein is true, accurate, complete, and relates only to the change referenced therein. All records maintained by Subcontractors of any tier, relating to the costs of a change in the Work shall be signed by such Subcontractor's authorized Project Manager or Superintendent as a representation and warranty that all information contained therein is true, accurate, complete, and relates only to the change referenced therein.

- U. **Submission of Daily Records.** All such records shall be delivered to the DISTRICT not later than on the day the Work is performed (same day) for independent verification. The DISTRICT shall attempt to review and reconcile costs of changes on a daily basis. The DISTRICT's signature on the report shall indicate agreement with the information reflected therein, not that the CONTRACTOR is entitled to payment of the costs in the report. If the DISTRICT disagrees with the response, the DISTRICT shall note the areas of disagreement on the report. In the event that the CONTRACTOR shall fail or refuse, for any reason, to maintain or make available for inspection, review and/or reproduction such records, adjustments to the Contract Price or Contract Time, if any, on account of any change to the Work may be deemed waived for that day. The CONTRACTOR's obligation to maintain back-up records hereunder is a material inducement to and in addition to, and not in lieu of, any other CONTRACTOR obligation under the Contract Documents with respect to changes to the Work.
1. Labor. The daily report shall show the names, trade, labor, classifications, and hours worked, for the workers.
  2. Material. The daily report shall describe and list quantities of materials used, attaching delivery tickets.
  3. Equipment. The daily report shall show type of operation, including loading and transportation, if applicable.
  4. Other Services and Expenditures. Other services and expenditures shall be described in such detail in the daily report as the DISTRICT may require.
  5. Cost. The report shall provide dollar values for each category of cost.
- V. Any work or changed work for which the CONTRACTOR may wish to make a Claim shall strictly comply with, and be done in accordance with this Agreement, including, without limitation, the cost accounting (e.g., force account) requirements set forth under this Agreement.
- W. Change in Contract Time Due to Changes in the Work. If the Work required by a Change Order results in an extension of, or adversely affects, the Critical Path of construction tasks under the existing construction schedule and is the sole, unavoidable cause for an increase in the length of time required to complete the Work, the Contract Time will be adjusted accordingly subject to the CONTRACTOR's strict compliance with all requirements of the Contract Documents, including, without limitation Section 00800 - Special Provisions.

## 11. CLAIMS AND DISPUTE RESOLUTION PROCEDURES

- A. **Notice of Potential Claim.** The CONTRACTOR is not entitled to additional compensation for any cause, including a disagreement, protest, or change, an act or failure to act by the DISTRICT, or the happening of an event, thing or occurrence, or an

adjustment of Contract Price or Contract Time, unless the CONTRACTOR has given the DISTRICT written Notice of Potential Claim ("NOPC") as required under this Article.

1. The NOPC must clearly describe the nature, circumstances, and basis of the potential claim, and must explain the reasons that the CONTRACTOR believes additional compensation and/or time will or may be due, the nature of the costs and/or time involved, the amount of the potential claim, a request for equitable adjustment, and written and verifiable documentation and support.
  2. Except as otherwise required in the Contract Documents, the CONTRACTOR must promptly provide an NOPC to the DISTRICT upon discovery of concealed or unknown conditions or a disagreement, protest, situation, event, or occurrence that may result in a Claim. This notice must be submitted no more than 7 calendar days after the discovery or occurrence of an event that may be the basis for a Claim for an adjustment of the Contract Price or an extension of Contract Time, or both, or within any time limits specified elsewhere in the Contract Documents, whichever is shorter; failure to do so waives the CONTRACTOR's right to assert the Claim. Nothing set forth in this Section shall reduce, limit or waive any requirements set forth elsewhere in the Contract Documents, or by law, including without limitation as to the time and manner of any notice.
  3. If costs or time cannot be reasonably determined at the time the NOPC is provided, the NOPC must be amended to include quantified cost and time impacts within 30 days after work has ceased on the event that prompted the NOPC; failure to do so waives the Claim in its entirety. For NOPC events that extend more than 30 days, the CONTRACTOR must provide a monthly accounting of ongoing costs and time impacts by the 5th day of the succeeding month; failure to do so waives the Claim.
- B. **Duty to Mitigate Damages.** The CONTRACTOR is required to undertake all reasonable and practical efforts to mitigate the damaging effects of a potential current or future Claim it perceives as a result of an act or failure to act on the part of the DISTRICT, or as a result of an event, thing or occurrence. Written notice by the CONTRACTOR of a potential Claim does not excuse the CONTRACTOR from pursuing the mitigation of a Claim in good faith and with due diligence. Where possible, or if directed by the DISTRICT, the CONTRACTOR must be prepared to discuss various methods of mitigation with the DISTRICT prior to actual mitigation. The obligation to minimize foreseeable damages requires that the CONTRACTOR use reasonable care and diligence to prevent an unwarranted incurrence of damages from a delay caused by the other party or an unforeseen event. In evaluating a delay, if, in the opinion of the DISTRICT, the delay could have been avoided by due care of the CONTRACTOR, the CONTRACTOR is responsible for the additional costs attributed to the failure to mitigate.
- C. The CONTRACTOR's Surety or Sureties shall be bound by any award or judgment rendered in any proceeding arising from the Project or undertaken in accordance with the Contract Documents. Further, the CONTRACTOR's Surety or Sureties shall be bound by and subject to the CONTRACTOR's Surety or Sureties shall, at the request of the DISTRICT (or the CONTRACTOR), participate in any dispute resolution proceedings, including mediation or litigation, that occur pursuant to the Contract Documents.

- D. The DISTRICT and the CONTRACTOR intend that any disputes or differences between the DISTRICT and the CONTRACTOR arising under the Agreement or concerning the Contract Documents be brought to the attention of the DISTRICT at the earliest possible time in order that such matters may be addressed and/or settled, if possible, or other appropriate action promptly taken. The DISTRICT and the CONTRACTOR agree to initially strive to resolve all disputes amicably and in an informal manner as provided for in the Contract Documents. If the resolution of any dispute involves a change in the Work, increase or decrease in the Contract Price, or adjustment in the Contract Time, then the informal dispute resolution shall be documented and confirmed by a Change Order pursuant to the Contract Documents. Informal discussions or negotiations with the DISTRICT or its representatives concerning informal resolution of a dispute shall not toll or suspend the times associated with pursuing a Claim provided herein, unless so provided by the DISTRICT in writing.
- E. The CONTRACTOR shall not be entitled to an increase in Contract Price, or adjustment of Contract Time, or both, for claimed extra work (or otherwise on account of any claim, cause, act, failure to act, or happening of any event or occurrence) unless the DISTRICT has issued a Change Order pursuant to the Contract Documents, or a Claim has been timely filed and approved pursuant to the Contract Documents. If the CONTRACTOR fails to timely file a written Claim in accordance with the Contract Documents, then the CONTRACTOR shall be deemed to have waived any right or remedy to thereafter pursue the Claim against the DISTRICT in any administrative, arbitration or litigation proceeding.
- F. Claims. "Claim" or "Claims" means a separate written demand by the CONTRACTOR for one or more of the following:
1. An extension of Contract Time, including, without limitation, for relief from damages or penalties for delay assessed by the DISTRICT under the Contract for the Project;
  2. Payment by the DISTRICT of money or damages arising from work done by, or on behalf of, the CONTRACTOR which shall result in an increase to the Contract Price, and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled; and/or
  3. Payment of any amount that is disputed by the DISTRICT.
- G. **Requirements for Filing of Claim;** Contents; Filing Deadline. The CONTRACTOR may file a Claim with the DISTRICT. A Claim must (a) be in writing; (b) be labeled or clearly indicated as a Claim under the Agreement; (c) set forth in detail the reasons why the CONTRACTOR believes an adjustment to the Contract Price and/or Contract Time is or may be due, the nature of the costs and time issues involved, and, insofar as possible, the total amount of the Claim; (d) include (or reference earlier provided) documents that support and substantiate the Claim, including, without limitation complete documented costs of doing the Work for which it is making a Claim submitted in accordance with the requirements of the Contract Documents; and (e) include the following certification, properly completed and executed by CONTRACTOR or any officer of CONTRACTOR:

I, \_\_\_\_\_, BEING THE \_\_\_\_\_  
(must be a project manager or officer) OF \_\_\_\_\_ (CONTRACTOR),  
DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF  
CALIFORNIA, AND I DO PERSONALLY CERTIFY AND ATTEST THAT: I HAVE  
THOROUGHLY REVIEWED THE ATTACHED CLAIM FOR ADDITIONAL  
COMPENSATION AND/OR EXTENSION OF TIME, AND KNOW ITS CONTENTS, AND  
SAID CLAIM IS TRUTHFUL AND ACCURATE; THAT THE AMOUNT AND/OR  
CONTRACT TIME EXTENSION REQUESTED ACCURATELY REFLECTS THE  
CONTRACT ADJUSTMENT FOR WHICH THE DISTRICT IS LIABLE; AND FURTHER,  
THAT I AM FAMILIAR WITH CALIFORNIA PENAL CODE SECTION 72 AND  
CALIFORNIA GOVERNMENT CODE SECTION 12650, ET SEQ., PERTAINING TO  
FALSE CLAIMS, AND FURTHER KNOW AND UNDERSTAND THAT SUBMISSION OR  
CERTIFICATION OF A FALSE CLAIM MAY LEAD TO FINES, IMPRISONMENT  
AND/OR OTHER SEVERE LEGAL CONSEQUENCES.

- H. A Claim must be submitted to the DISTRICT within the following Claim filing deadlines: (a) if a deadline is set forth in the Contract Documents for filing of the particular Claim, then the Claim must be filed by the specified time; (b) if the Claim relates to extra, additional or unforeseen work for which the CONTRACTOR intends to demand an adjustment to the Contract Price or Contract Time, or both, written notice shall be given to the DISTRICT at least five (5) days prior to the time that the CONTRACTOR is to commence performance of the Work giving rise to the potential Claim, and the CONTRACTOR shall not proceed with that work until so directed by the DISTRICT; and (c) for all other Claims not included within (a) or (b), the Claim must be filed on or before ten (10) days after the date of the occurrence, event or circumstance giving rise to the Claim. In no event shall a Claim be filed later than the date of Final Payment. The failure of the CONTRACTOR to timely file its Claim shall result in the waiver of the Claim in its entirety.
- I. **Claims Subject to Public Contract Code Section 9204; Procedures.** This Section applies solely to the handling and resolution of a Claim(s) sent to the DISTRICT by registered mail or certified mail with return receipt requested in accordance with Public Contract Code section 9204(c)(1).
1. With respect to any Claim(s) sent to the DISTRICT in accordance with this Agreement, the provisions of Public Contract Code section 9204 shall apply
  2. In the event mediation, if any, is unsuccessful pursuant to Public Contract Code section 9204, and all or parts of the Claim(s) remain in dispute, then the CONTRACTOR shall thereafter comply with the Claim procedures as set forth, in this Agreement, as applicable.
- J. **Claims Equal to or Less than \$375,000; Procedures.** This applies solely to the handling and resolution of a Contract Claim(s) that is/are in an amount equal to or less than Three Hundred Seventy-Five Thousand Dollars (\$375,000).

1. With respect to any Claim(s) subject to this section, the provisions of Public Contract Code Section 20104, et seq. shall apply.
  2. Agreement to Opt-Out. Notwithstanding anything to the contrary in the Contract Documents, the DISTRICT and the CONTRACTOR may mutually agree at any time, in writing, that any Claim(s) to which the obligations set forth in this Section apply (i.e., unresolved Claims in an amount equal to or less than \$375,000) shall be subject to the dispute resolution requirements as set forth below applicable to the resolution and handling of claims in an amount in excess of \$375,000.
- K. **Claims Exceeding \$375,000; Procedure.** This applies solely to the handling and resolution of a Claim(s) that is/are in an amount exceeding Three Hundred Seventy-Five Thousand Dollars (\$375,000). With respect to any Claim(s) subject to this Part, the following shall apply:
1. The DISTRICT shall review facts pertinent to the Claim and request any additional information from the CONTRACTOR deemed necessary for a decision, if any. The CONTRACTOR shall promptly respond to any such request and provide any additional information as requested by the DISTRICT. The DISTRICT shall render a written decision on the Claim within sixty (60) days of receipt of the Claim and any additional information, unless the DISTRICT advises the CONTRACTOR in writing that additional time is required to evaluate the Claim, which shall constitute the Final Claim Determination.
  2. If the CONTRACTOR disputes the Final Claim Determination of the DISTRICT, or if the DISTRICT fails to respond within the time prescribed, the CONTRACTOR may so notify the DISTRICT, in writing, either within fifteen (15) days of receipt of the written decision or the DISTRICT's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the DISTRICT shall schedule a meet and confer conference within thirty (30) days for the purpose of discussing settlement of the Claim.
  3. Submission of a Claim, in conformance with all the requirements of the Contract Documents, and rejection of all or part of said Claim by the DISTRICT, is a condition precedent to any further action upon the Claim by the CONTRACTOR.
  4. **Mediation.** The DISTRICT and the CONTRACTOR (and the CONTRACTOR's Surety or Sureties, or any Subcontractor, if requested to participate by the DISTRICT) agree to engage in good faith efforts to seek to resolve any outstanding Claims submitted pursuant to this Article by mediation prior to proceeding with, and as a condition precedent to, further dispute proceedings.
    - a. **Initiation of Mediation.** Within ten (10) calendar days after the DISTRICT issues its Final Claim Determination pursuant to this Agreement, or the conclusion of any meet and confer conference pursuant to this Agreement, either party may initiate mediation of a Claim or dispute by notifying the other party, in writing, of its intent to mediate any Claims denied or rejected by the

DISTRICT or otherwise in dispute. The CONTRACTOR hereby expressly waives all Claims not timely submitted to mediation.

- b. **Request for Mediation.** A request for mediation must be in writing and set forth a brief statement that identifies the Claim, the asserted damages, the names, addresses, and contact information of the parties, and identify their authorized representative, if any, that will participate in the mediation.
- c. **Selection of Mediator.** Upon receipt of a request for mediation, within fourteen (14) calendar days, the parties will meet and confer to select an appropriate mediator agreeable to all parties. If the parties cannot agree on a mediator, they hereby agree to accept a mediator to be appointed by a recognized alternative dispute resolution organization, such as the American Arbitration Association or JAMS. The parties agree that any neutral selected or appointed to preside over the mediation shall be an attorney admitted to practice law in the State of California or a retired judge, and he or she shall possess at least 10 years' experience practicing law in the substantive areas of public contracting, public construction contracts and construction litigation.
- d. **Time and Place of Mediation.** The mediator, using advice and input from the parties, shall set the time of each mediation session, as well as the mediation protocol (i.e., submission of briefs, statement of damages, etc.). The mediation will be held at any convenient location agreeable to the mediator and the parties, as the mediator determines. All reasonable efforts will be made by the parties and the mediator to schedule the first session within thirty (30) calendar days after selection of the mediator.
- e. **Expenses.** All fees paid to the mediator, including any required traveling and other expenses of the mediator, will be shared equally among the parties to the mediation.
- f. **Termination of Mediation.** The mediation may be terminated: (a) by the execution of a settlement agreement by the parties; (b) by a written declaration of the mediator to the effect that further efforts at mediation are no longer worthwhile; or (c) by a writing on behalf of a party or parties to the effect that the mediation proceedings are terminated. (g) **Privileges and Protections:** All meetings, communications and correspondence relative to the mediation procedures set forth in this Section shall be subject to any applicable mediation or settlement related privilege afforded under California law, including, without limitation, California Evidence Code Sections 1115, et seq., 1152 and 1154.
- g. **Presentation of Statutory Claims; Litigation.** Nothing in this Part or the Contract Documents is intended nor shall be construed to change the time periods for filing tort claims or other actions specified by Chapter 1 (commencing with section 900) and Chapter 2 (commencing with section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code, nor otherwise effect the requirements of any other provisions of California law applicable to the presentation of Claims and prosecution of disputes by the CONTRACTOR. The CONTRACTOR shall be responsible to fully and timely satisfy all such

requirements as may be applicable to any Claim presented by the CONTRACTOR in accordance with any applicable laws and regulations. Any litigation arising out of the Contract Documents shall be brought in the Nevada County Superior Court, and the CONTRACTOR, and its Surety(ies), expressly waive the removal provisions of California Code of Civil Procedure Section 394.

- L. **Work Continues During Disputes.** In the event of any dispute between the DISTRICT and the CONTRACTOR, or during the pendency of any Claim(s) or associated proceedings under this Article or the Contract Documents, the CONTRACTOR shall not stop, or delay performance of, the Work, but shall prosecute the Work diligently to completion in the manner directed by the DISTRICT, unless otherwise directed in writing by the DISTRICT.
- M. **Application.** The procedures and remedies set forth in this Article shall not apply to any claim by the DISTRICT against the CONTRACTOR or its Surety or Sureties, nor any right or obligation which the DISTRICT seeks to enforce against the CONTRACTOR (unless the DISTRICT, in its sole discretion, opts to proceed hereunder).

## 12. CONTRACT TIME AND DELAYS

### A. Definitions of Terms:

1. **“Excusable Delay”** is any delay to the completion of the Project beyond the expiration of the Contract Time caused by conditions beyond the control and without any fault or negligence of the CONTRACTOR (or its Subcontractors or suppliers), such as strikes, embargoes, fire, unavoidable casualties, unusual delays in transportation, national emergency, and Unusual Weather. The financial inability of the CONTRACTOR or any subcontractor or supplier, and default of any subcontractor or supplier, without limitation, shall not be deemed conditions beyond the CONTRACTOR's control. The CONTRACTOR may make a Claim under this Agreement for an extension of Contract Time due to an Excusable Delay if it can show that the Excusable Delay is the sole and unavoidable cause increasing the Contract Time actually needed to complete the Work. The CONTRACTOR shall not be entitled to an increase in Contract Price due to an Excusable Delay.
2. **“Compensable Delay”** is any delay to the completion of the Project beyond the expiration of the Contract Time for which the DISTRICT is solely responsible due to its conduct or inaction (and not including delays arising from Excusable Delay) and which delay is unreasonable under the circumstances involved, and not within the contemplation of the parties, but shall not include any delay to the performance of the Work to the extent that the CONTRACTOR's performance is, was or would have been suspended, delayed or interrupted by another cause for which the CONTRACTOR (or its Subcontractors or suppliers) is/are solely or partially responsible (i.e., concurrent CONTRACTOR-caused delays). Subject to strict compliance with the terms and requirements of the Contract Documents, a Compensable Delay may entitle the CONTRACTOR to an extension of the Contract Time and/or an adjustment of the Contract Price. Except as provided for under the Contract Documents, and subject to Public Contract Code section 7102,

the CONTRACTOR shall have no claim for damage or compensation for any delay, interruption, hindrance, or disruption. In the case of a delay which was caused in part by the CONTRACTOR and in part by the DISTRICT (Concurrent Delay), the CONTRACTOR shall only be entitled to an extension of the Contract Time and the CONTRACTOR shall not be liable for Liquidated Damages during the period of Concurrent Delay, but the CONTRACTOR shall not be entitled to any adjustment to the Contract Price whatsoever during the period of Concurrent Delay.

3. **“Unusual Weather”** is defined as the number of Wet Days exceeding the most recent published mean number of Wet Days for the construction period (e.g., for the same month) at the weather observing station closest to the project site as reported in “Comparative Climatic Data” published by the National Oceanic and Atmospheric Administration, Ashville, NC 28801. “Wet Days” are defined as days that have at least 0.01 inch of rainfall.
- B. **Computation of Time.** Any period of time referred to in the Contract Documents measured in days shall mean consecutive calendar days and shall exclude the first and include the last day. If the last day falls on a Saturday, Sunday or legal holiday, it shall be omitted from the calculation.
  - C. **Contract Time.** Time limits stated in the Agreement are the essence of the Contract. The CONTRACTOR confirms that the Contract Time is a reasonable period for performing the Work and includes enough float time to allow for normal unfavorable weather and other reasonably anticipated delays.
  - D. **Damages for Late Completion.** The CONTRACTOR shall complete all Work (inclusive of all interim milestones as defined in the Contract Documents), in strict accordance with the Contract Documents, and within the allocated Contract Time, subject to approved extension(s) of the Contract Time that may be granted by the DISTRICT, if any, during the course of the Project. In the event of a failure on part of the CONTRACTOR to achieve Final Completion within the allocated Contract Time, the CONTRACTOR shall pay to the DISTRICT Liquidated Damages in accordance with the Contract Documents. The DISTRICT reserves the right, in its sole discretion, to make a detailed written determination of the losses and damages incurred arising from the failure of the CONTRACTOR to achieve Final completion within the Contract Time, including any approved extensions, and to receive such full recompense from the CONTRACTOR.
  - E. **Commencing Work.** The CONTRACTOR shall not commence work (1) prior to the date in the Notice to Proceed; (2) prior to giving the DISTRICT five (5) days written notice; and (3) prior to the effective date of insurance coverage required under this Agreement, evidence of which shall be submitted to the DISTRICT prior to commencement of the Work.
  - F. **Delays.** Time is of the essence in the performance of this Agreement. The CONTRACTOR must complete the entire Work of the Project, and all designated portions thereof, within the Contract Time(s), subject to any authorized extension(s) thereof, pursuant to the Contract Documents. Failure of the CONTRACTOR to include an element of the Work required for performance of the Agreement in the current, updated construction schedule (or any earlier version of the construction schedule), or

any inaccuracy in the construction schedule, does not relieve the CONTRACTOR from responsibility for accomplishing the Work within the Contract Times designated in the Contract Documents. The CONTRACTOR must provide an adequate workforce, materials of proper quality, and equipment to properly execute the Work and to ensure completion of each part of the Work in accordance with the Contract Documents and the construction schedule.

- G. **Acceleration to Meet Construction Schedule.** The contractor shall proceed expeditiously with adequate forces and shall achieve Final Completion within the Contract Time. If the CONTRACTOR's performance falls behind schedule, the CONTRACTOR shall accelerate the Work, or a portion of the Work, as required to get back on schedule at no additional cost to the DISTRICT. Accelerated work shall include air or express delivery of materials and equipment, increasing the number of workers, working overtime, working Saturdays, Sundays, and holidays (subject to the advance approval of the DISTRICT), and working additional shifts. The CONTRACTOR shall pay the DISTRICT for any extra cost of inspection made necessary by accelerated work required under this provision.
1. The DISTRICT reserves the right to direct the CONTRACTOR to accelerate performance of the Work, or any portion of the Work, or to work overtime when it is determined to be in the best interest of the DISTRICT or the Project. No action or direction of the DISTRICT other than an express written direction by the DISTRICT to accelerate performance of the Work or to work overtime shall be construed by the CONTRACTOR to be direction to accelerate the Work or to work overtime.
- H. The DISTRICT will consider extensions to the Contract Times for the following reasons only if they are adequately demonstrated by the CONTRACTOR to affect the critical path of the construction schedule, as may be adjusted in accordance with the Contract Documents:
1. Delays in the progress of the Work due to Excusable Delay;
  2. Delays in the progress of the Work due to a Compensable Delay or an act of neglect by the DISTRICT, but only for the amount of delay time that occurs after the CONTRACTOR has notified the DISTRICT in writing and the DISTRICT has had a reasonable time to respond to the notification; or
  3. An Approved Change Order that extends the Contract Time.
- I. Whenever the CONTRACTOR foresees any delay in the prosecution of the Work, the CONTRACTOR must notify the DISTRICT in writing of any potential delay or impact, including any anticipated impact on the Contract Price and/or Contract Time, or both. Within seven (7) calendar days from the beginning of any critical path delay to the construction schedule, or the occurrence(s) giving rise to the delay, whichever occurs earlier, the CONTRACTOR must provide written notice of the delay event to the DISTRICT. Said written notice shall include a description of the event or occurrence giving rise to the delay, the estimated duration of the delay, and the impact of the event or occurrence upon the critical path and Final Completion. The CONTRACTOR

expressly waives any claim for delay or adjustment to the Contract Time and/or Contract Price if the CONTRACTOR fails to provide such written notice to the DISTRICT.

- J. Within thirty (30) calendar days after the initial written notice of the CONTRACTOR, the CONTRACTOR shall submit all supporting information to the DISTRICT to validate the claimed impact of the delay on the Contract Time, including a Time Impact Analysis ("TIA") in accordance with the requirements and provision set forth in Section 1310 – Construction Progress Schedule. If requested by the DISTRICT, the CONTRACTOR shall promptly, and no later than seven (7) calendar days after the DISTRICT's request, provide updated or further supporting information, including an updated or revised TIA, with respect to the claimed delay or impact. The CONTRACTOR expressly waives any Claim for delay or adjustment to the Contract Time and/or Contract Price if the CONTRACTOR fails to promptly and timely provide all supporting information, including the TIA and any additional/supplemental supporting information as may reasonably be requested by the DISTRICT.
- K. The DISTRICT will ascertain the facts and the extent of the delay and adjust the Contract Times for completing the Work (and/or adjust the Contract Price) if, in the DISTRICT's sole discretion and judgment, the facts justify such an adjustment pursuant to the Contract Documents. The DISTRICT's written determination in this regard shall be considered final and conclusive. In the event CONTRACTOR disputes the DISTRICT's written determination, CONTRACTOR's sole and exclusive remedy shall be to pursue a Claim in strict accordance with the requirements of this Agreement.
- L. The DISTRICT shall not consider any request for an adjustment to the Contract Time and/or Contract Price unless the CONTRACTOR satisfies the requirements set forth in the Contract Documents for providing prompt and timely written notice of the potential delay and submission of supporting information (including the TIA, and any further or additional supporting information as may be reasonably requested by the DISTRICT) establishing the impact of the delay on the critical path of the construction schedule. No adjustment of the Contract Time and/or Contract Price will be considered, or granted, as a consequence of any claimed delay event in the absence of the CONTRACTOR's strict compliance with the requirements of the Contract Documents.
- M. The DISTRICT shall not be responsible to the CONTRACTOR for any constructive acceleration due to the CONTRACTOR's failure to comply with the submission and justification requirements of the Contract Documents for Contract Time and/or Contract Price adjustment requests. The CONTRACTOR's failure to perform in accordance with the construction schedule shall not be excused because the CONTRACTOR has submitted a request for adjustment of the Contract Time, unless and until the DISTRICT approves such request.
- N. Unless the DISTRICT and the CONTRACTOR agree otherwise pursuant to a Change Order, in the event that the DISTRICT adjusts the Contract Time pursuant to a Compensable Delay, any request by the CONTRACTOR for delay costs (inclusive of all direct and indirect costs, expenses and overhead costs), if applicable, shall be limited solely to those costs identified in this Agreement. The CONTRACTOR shall neither claim nor recover any overhead costs in addition to those expressly allowed in this Agreement, nor shall the CONTRACTOR be entitled to claim or recover any "home office" expenses,

“extended site overhead,” or any other overhead cost on the basis of any “home office” damages formula, “Eichleay” formula, “Total Cost” recovery formula or any other such formula or calculation.

- O. Adjustments in Contract Time associated with changes or modifications ordered through a Change Order by the DISTRICT are subject to the requirements under this Agreement. An executed Change Order covering changes or modifications ordered by the DISTRICT under this Agreement, or the resolution of Claims made under the Agreement, shall be the final and conclusive resolution of any adjustment to the Contract Time and/or Contract Price for the Work or Claim covered by the Change Order.
- P. **No Early Completion Delay Damages.** While the CONTRACTOR may schedule completion of all the Work, or portions thereof, earlier than the Contract Time established in the Agreement, the DISTRICT is exempt from liability for and the CONTRACTOR shall not be entitled to an adjustment of the Contract Price or to any additional costs, damages, or compensation whatsoever, for use of float or for the CONTRACTOR's inability to complete the Work earlier than the Contract Time established in the Agreement, for any reason whatsoever, including but not limited to, delay caused by the DISTRICT, or other delay event.

### 13. INSPECTION, DEFECTIVE WORK, WARRANTY

- A. **Defective Work.** Defective Work is Work that, among other things: (1) is unsatisfactory, rejected, faulty, deficient, non-compliant, or leaks, breaks, fails or does not conform, whether generally or strictly, to the Contract Documents; or (2) does not meet the requirements of reference standards, tests or approvals specifically referred to in the Contract Documents; or (3) has been damaged prior to final acceptance; or (4) does not meet applicable industry or trade standards; or (5) a submittal is required and Favorable Review has not been obtained.
- B. **Access to Work and Notice.** The CONTRACTOR shall provide the DISTRICT and its representatives safe access to every part of the Work at all times Work is in progress for observation, inspecting and testing. The CONTRACTOR shall give at least two (2) business days' notice of work being ready for required inspection, test or approval or of intent to cover work up.
- C. **Tests and Inspections.** Unless otherwise specified, the CONTRACTOR shall arrange and pay for tests, inspections and approvals required by Laws and Regulations, ordinances, rules, and orders of public authorities having jurisdiction, or by the Contract Documents. All such tests, inspections and approvals shall be performed by an independent testing laboratory or inspection agency acceptable to the DISTRICT or to the appropriate public authority. Samples to be tested and items of work to be inspected will be selected by the DISTRICT or the public authority requiring the test or inspection. Test reports, inspection reports and certificates shall be submitted directly to the DISTRICT by the performing laboratory or agency. The CONTRACTOR shall notify the DISTRICT at least two (2) business days' prior to all tests and inspections to permit observation by the DISTRICT.

- D. **Re-inspection.** If the DISTRICT determines that portion(s) of the Work require additional testing or retesting, the CONTRACTOR shall provide material to be tested, safe access to test locations, power, light and other services. The cost of retesting shall be paid for by the DISTRICT, but if the additional tests or retesting indicate that said portion of the Work is Defective, the CONTRACTOR shall pay the DISTRICT all costs associated with additional testing or retesting including the cost of the DISTRICT's additional service.
- E. **Uncovering Work.** If work is covered or concealed without giving the DISTRICT at least two (2) business days' notice to permit observation, it shall be uncovered or exposed at the CONTRACTOR's expense to permit observation if so requested.
- F. If the DISTRICT wishes to have work uncovered for observation after having been given the required notice to observe it, the CONTRACTOR shall uncover the work on a cost accounting (e.g., force account) basis in accordance with this Agreement. If the work is found to be in accordance with the Contract Documents, the DISTRICT shall pay the cost of uncovering and replacing the work. If the Work is found to be Defective, the CONTRACTOR shall pay the cost of uncovering and correcting the work and the cost of required additional Project Management and testing service.
- G. **Correction of Defective Work.** The CONTRACTOR shall promptly correct or remove and replace, to the satisfaction of the DISTRICT: (1) work rejected by the DISTRICT as being Defective, and (2) work that is Defective whether or not rejected by the DISTRICT. The CONTRACTOR shall correct Defective Work prior to installing subsequent related or connected Work. The CONTRACTOR's obligation to correct Defective Work applies to latent as well as patent defects and whether or not the work is fabricated, installed or completed and whether observed before or after Substantial Completion. The CONTRACTOR shall bear all direct, indirect and consequential costs of such correction or replacement and removal (including but not limited to fees and charges of any consultants) made necessary thereby.
1. The fact that work and materials have been tested or inspected from time to time, and payments have been made, shall not relieve the CONTRACTOR from the responsibility of replacing and making good any defective work or materials that may be discovered before or after the date of completion of the Work by the CONTRACTOR and its approval and acceptance by the DISTRICT.
  2. Failure of the DISTRICT to object to any defects in Work or material or variances from the Drawings and Specifications during or after construction shall not be deemed a waiver by the DISTRICT of such defects or variances; nor by such failure shall the DISTRICT be deemed stopped from requiring the CONTRACTOR to correct such defects or variances.
- H. **Acceptance or Use of Defective Work.** The DISTRICT may elect to accept Defective Work in which case a deductive Change Order shall be signed by the CONTRACTOR reflecting the decreased value of the Work. If final payment has been made, the CONTRACTOR shall pay to the DISTRICT a sum reflecting the decreased value of the Work. The CONTRACTOR shall also bear all direct, indirect and consequential costs attributable to the DISTRICT's evaluation of and determination to accept such Defective

Work (and which shall include, but not be limited to, fees and charges of Project Managers, architects, and other consultants).

1. The DISTRICT may use Defective Work without negating its rejection or decreasing the Warranty Period which shall commence when the work is finally corrected or replaced and accepted. When all or part of the Work is being used by the DISTRICT, the CONTRACTOR shall schedule correction or replacement of Defective Work at the DISTRICT's convenience.

I. **Correction of Defective Work by the DISTRICT.** Should the CONTRACTOR fail or refuse, after written notice from the DISTRICT to correct Defective Work, or to remove and replace rejected Defective Work as required by the DISTRICT, or when the CONTRACTOR fails to perform the Work in strict accordance with the Contract Documents, or when the CONTRACTOR fails to comply with any other provision of the Contract Documents, the DISTRICT may, at its sole option and after two (2) days written notice to the CONTRACTOR, correct and remedy any such Defective Work. No written notice shall be required from the DISTRICT in the event that the correction and remediation of the Defective Work is required to immediately address an emergency situation, or to abate any risk to life, health or safety.

1. The DISTRICT's exercise of the rights and remedies under this Section shall be in addition to, and not in lieu of, any other rights and remedies available under the Contract Documents of applicable law.
2. All direct, indirect and consequential costs incurred by the DISTRICT in exercising such rights and remedies will be charged against the CONTRACTOR, and a Change Order will be issued adjusting the Contract Price. Such direct, indirect and consequential costs shall include, but not be limited to, fees and charges of any consultants, all court and arbitration costs and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of the CONTRACTOR's defective work.
3. The CONTRACTOR shall not be allowed an extension of Contract Time because of any delay in performance of the Work attributable to the exercise by the DISTRICT of DISTRICT's rights and remedies under this Article.

J. **Warranty and Correction Period.** When within one year after the date of the DISTRICT's acceptance of the Work or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable warranty or special guarantee required by the Contract Documents or by any specific provisions of the Contract Documents, any Work is found to be Defective Work, the CONTRACTOR shall promptly, without cost to the DISTRICT and in accordance with written instructions given by the DISTRICT, either correct such defective work, or, when it has been rejected by the DISTRICT, remove it from the site and replace it with nondefective work. Acceptance of the Work by the DISTRICT or its representatives, shall in no way release the CONTRACTOR from its responsibility to comply with the provisions of the Contract Documents, even though deviations or Defective Work may not be discovered within the aforementioned one-year period. The one-year correction period set forth herein, and any and all guarantee or correction periods, does not in any way limit or waive the

DISTRICT's rights to pursue legal action for patent or latent construction defects in accordance with California Code of Civil Procedure sections 337.1 and/or 337.15. Further, nothing contained in the Contract Documents shall be construed to limit in any manner the liability of the CONTRACTOR, or its Subcontractors and suppliers, or any tier, for damages sustained as a result of latent or patent defects in equipment or materials furnished or caused by the negligence of the CONTRACTOR or its subcontractors and suppliers, of any tier. The warranty contained in this Agreement, shall not be a waiver of nor shall they reduce any guarantee or warrantee offered by the suppliers of materials or equipment furnished under this Agreement nor shall they reduce any responsibilities imposed on manufacturers or suppliers of such equipment under applicable law.

- K. Where the CONTRACTOR does not promptly and strictly comply with the terms of such written instructions given by the DISTRICT, or if the CONTRACTOR fails to comply with the requirements of any warranty or guarantee required by this Agreement within two (2) days after being notified in writing, or in an emergency where delay would cause serious risk of loss or damage, the DISTRICT may have the defective work corrected or the rejected work removed and replaced in accordance with this Section.
- L. In special circumstances where a particular item of equipment is placed in continuous use and service before final acceptance of the Work by the DISTRICT, the correction period for that item may start to run from an earlier date when so provided in the Contract Documents, or if agreed to in writing by the DISTRICT.
- M. In the event it is necessary for the DISTRICT to commence litigation to enforce any obligation or liability of the CONTRACTOR pursuant to this Section, the DISTRICT shall be entitled to recover from the CONTRACTOR, in addition to all other amounts found due and owing, fees of any consultants or experts necessary to address or correct the Defective Work.

#### 14. PAYMENT

- A. **Schedule of Values.** At least thirty (30) days prior to the first Application for Payment Date, the CONTRACTOR shall submit a Schedule of Values, in a form acceptable to the DISTRICT, allocating the Contract Price to various trades, types of work, pieces of equipment, and major tasks to assist the DISTRICT in evaluating the percentage completion for each part of the Work. The CONTRACTOR's overhead and profit shall be uniformly pro-rated over all items in the Schedule of Values. The Schedule of Values shall represent the actual cost of each segment of the work and shall not allocate higher costs, overhead or profit to work items scheduled for early completion. The total sum of the Schedule of Values shall equal the Contract Price. If the DISTRICT objects to the allocation of cost or the level of detail provided, the CONTRACTOR shall revise and resubmit the Schedule of Values. This Schedule of Values, unless objected to by the DISTRICT, shall be used only as a basis for the CONTRACTOR's Applications for Payment. This Schedule of Values shall be so arranged that the value of the Work as it progresses may be readily determined.
- B. **Application for Payment.** The period covered by each Application for Payment shall be one calendar month. Payment shall be based on work completed as of the Application

for Payment Date which shall be the last day of the month unless otherwise stated in the Agreement. Within seven (7) days prior to each Application for Payment Date, the CONTRACTOR shall meet with the DISTRICT to review the line item amounts proposed by the CONTRACTOR for payment. When the amounts proposed are acceptable to the DISTRICT, the CONTRACTOR shall prepare and submit within three (3) days, an Application for Payment in a format acceptable to the DISTRICT, along with all required Conditional and Unconditional releases from the CONTRACTOR, each subcontractor, supplier and materialman whose work is included in the Application for Payment, and all other documentation (including, without limitation, certified payroll reports and information) that may be reasonably required by the DISTRICT. The CONTRACTOR shall sign and certify on the Application for Payment, subject to penalty of perjury, the following: "The undersigned CONTRACTOR certifies that to the best of the CONTRACTOR's knowledge, information and belief, the Work covered by this Application for Payment has been completed in accordance with the Contract Documents and that all Work for which previous payments have been received is free and clear of liens, claims, security interests or encumbrances of any kind. The CONTRACTOR further warrants that title to all Work covered by this Application for Payment will pass to the DISTRICT no later than the time of payment."

1. As a condition precedent to payment by the DISTRICT, each itemized Application for Payment shall be accompanied by a current Conditional Waiver and Release On Progress Payment, in the form specified by the applicable California Civil Code, from CONTRACTOR and each of CONTRACTOR's subcontractors, suppliers, and union trust funds for which payment is sought by the Application for Payment, and an Unconditional Waiver and Release On Progress Payment, in the form specified by the applicable California Civil Code, from CONTRACTOR and each of CONTRACTOR's subcontractors, suppliers, and any union trust fund for which payment was sought by CONTRACTOR in the immediately preceding Application for Payment and for which the DISTRICT made payment.
2. The CONTRACTOR warrants that title to all work materials and equipment covered by an Application for Payment will pass to the DISTRICT, or its assignee, either by incorporation in the construction or upon receipt of payment by the CONTRACTOR, whichever occurs first, free and clear of all liens, stop notices, claims, security interest or encumbrances hereinafter referred to in this section as "liens". CONTRACTOR represents that no work, materials or equipment covered by an Application for Payment will have been acquired by the CONTRACTOR, or by any other person performing work at the Project or furnishing materials and equipment for the Project, subject to an agreement under which an interest or an encumbrance is retained by the seller or otherwise imposed by the CONTRACTOR or such other person.
3. **Taxes.** The CONTRACTOR shall pay all applicable sales, consumer, use, and similar taxes for the Work provided by the CONTRACTOR and such taxes shall be included in the Contract Price.
4. **Liability for Employee Payments.** CONTRACTOR accepts full liability and responsibility for the payment of any and all contributions, deductions, or taxes for social security, unemployment insurance, old age and survivor's benefits, medical

and health benefits, or for any other purpose now or hereafter imposed under any applicable law measured by the wages, salary or other remuneration paid to persons employed by or on behalf of CONTRACTOR for the Work. CONTRACTOR covenants and agrees to observe and fully comply with all applicable law, including procurement of any necessary occupational licenses, permits and inspection certificates.

- C. **Payment for Items Delivered But Not Installed.** Subject to the consent of the DISTRICT, Applications for Payment may include the percentage of value stipulated in the Agreement for major equipment and custom fabricated items that have been delivered, stored and adequately protected at the site of the Project, and CONTRACTOR acknowledges that payment of such amounts included in any Application for Payment is within the sole discretion of the DISTRICT. As express conditions precedent to payment for stored materials, CONTRACTOR shall provide all documentation required by the DISTRICT to confirm that title to such major equipment and/or custom fabricated items will pass to the DISTRICT upon payment which may include, without limitation, the following:
1. Certificates of insurance, evidence of transfer of title to the DISTRICT, and consent of surety to payment, for stored materials; and
  2. Supporting documentation that verifies all amounts requested, such as paid invoices (overhead and profit on stored materials shall not be included in any Application for Payment). Payment will not be made for material stored at the site of the Project that is not custom fabricated. Payment will not be made for items stored off site. Payment will not be made for stored or installed items that are not protected from physical, environmental or other damage.
- D. Within seven (7) days after receipt of the CONTRACTOR's Application for Payment, the DISTRICT will approve the application as submitted or will notify the CONTRACTOR of reasons for withholding a portion of the requested payment. The DISTRICT may withhold any payment in whole or in part to the extent necessary to reasonably protect the DISTRICT, or if it is unable to verify the accuracy of an Application for Payment. If the DISTRICT is unable to verify the accuracy of an Application for Payment, the DISTRICT will notify the CONTRACTOR in writing. If the CONTRACTOR and the DISTRICT cannot agree on a revised amount, the DISTRICT will promptly process payment for those amounts for which it is able to verify. The DISTRICT may also withhold any payment, or portion thereof, to protect the DISTRICT from loss because of known, or subsequently discovered, issues which may include, without limitation, the following:
1. Defective Work not corrected or remedied;
  2. Third party claims filed or reasonable evidence indicating probable filing of such claims, including claims by separate contractors;
  3. Failure of the CONTRACTOR to make payments properly or timely to subcontractors or suppliers for labor, materials or equipment;

4. Reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Price;
  5. Damage to property, the Work, the DISTRICT, another contractor or a third party, including liquidated damages;
  6. Reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;
  7. Work performed for which submittals are required prior to obtaining Favorable Review of submittals;
  8. Failure to carry out the Work in accordance with the Contract Documents, including, without limitation, failure to make required submittals;
  9. Failure to submit a construction schedule or to update the construction schedule in accordance with the Contract Documents;
  10. Failure to update Record Drawings weekly;
  11. Failure to provide all insurance coverages in accordance with the Contract Documents, or to reinstate required insurance coverage that has lapsed;
  12. Non-payment of money owed to the DISTRICT for the extra cost of inspection;
  13. Stop payment notice(s) served upon the DISTRICT;
  14. Failure to submit certified weekly payrolls
  15. Failure or refusal of CONTRACTOR to comply with the requirements and obligations of the Contract Documents; and
  16. Any material breach of the Contract Documents by CONTRACTOR and/or its Subcontractors or suppliers, of any tier, or any other person or entity for which CONTRACTOR bears responsibility.
- E. When the grounds for withholding any amount are removed to the satisfaction of the DISTRICT, in its sole discretion, payment shall be made by the DISTRICT for amounts withheld because of them within ten (10) Days' thereafter. Neither approval of an Application for Payment, delivery or making of a progress payment, nor partial or entire use or occupancy of the Project by the DISTRICT, shall constitute an acceptance of any Work not in accordance with the Contract Documents, nor shall it be deemed a waiver of the DISTRICT of any remedy it may have in law or equity. Should any stop payment notice be filed with the DISTRICT, the DISTRICT shall in accordance with California Civil Code Section 9358, withhold the amount claimed, plus an allowance of an additional

25% to cover its litigation costs plus interest at the rate of 10%, from progress payments until such claims have been resolved pursuant to law.

- F. **Retainage.** Absent an express finding pursuant to Public Contract Code section 7201(b) authorizing the DISTRICT to withhold a higher amount of retention (in excess of five percent (5%) of the estimated value of the work done and the labor, materials, equipment, and services provided), the DISTRICT shall retain an amount from each progress payment not to exceed five percent (5%) of the estimated value of the work done and the labor, materials, equipment, and services provided, all in accordance with Public Contract Code section 7201. This retained amount shall be retained by the DISTRICT until the time of final acceptance of the Work and released in accordance with requirements of the Contract Documents and applicable law. In lieu of the five percent (5%) retainage, the CONTRACTOR may substitute securities as provided for in Public Contract Code Section 22300 and the Contract Documents.
- G. Payments to the CONTRACTOR will be made within the time limits required under applicable law after submission to the DISTRICT of an appropriate Application for Payment, inclusive of all required documentation to substantiate the Application for Payment, and subject to the DISTRICT's regular approval and accounting procedures.
- H. CONTRACTOR, and its subcontractors, shall promptly pay any subcontractor not later than seven (7) calendar days of receipt of each progress payment in accordance with the provision in section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The CONTRACTOR shall, by an appropriate written subcontract with each Subcontractor, require each Subcontractor to make payments to their sub-subcontractors in similar manner.
- I. **Final Payment.** Thirty five (35) days after the acceptance of the Work by the DISTRICT and recordation by the DISTRICT of a Notice of Completion with the County Recorder, and upon CONTRACTOR providing to the DISTRICT all documents and information required by the Contract Documents including, without limitation, all releases, maintenance guarantees, maintenance manuals and technical specifications, and all other requirements for project completion and closeout as set forth in the Contract Documents having been fully and completely satisfied, the CONTRACTOR shall be entitled to the balance due for the completion and acceptance of the Work, provided that all claims for labor and materials have been paid, and that no Claims shall have been filed with the DISTRICT based upon acts or omissions of the CONTRACTOR and that no stop payment notices have been filed, less sums withheld for liquidated damages, if any, or any other damages incurred by the DISTRICT, or other sums withheld pursuant to the terms of the Contract Documents or as authorized by California law.
  - 1. Final payment will be made in accordance with the Contract Documents and California law, including, without limitation, Public Contract Code Section 7107. Pursuant to Public Contract Code Section 7107, in the event of a dispute between the DISTRICT and CONTRACTOR, the DISTRICT may withhold from the final payment an amount not to exceed 150 percent of the disputed amount. All provisions of the Contract Documents, including without limitation those establishing obligations and procedures, shall remain in full force and effect notwithstanding the making or acceptance of final payment.

- J. Waiver of Claims. Subject to the terms of the Contract Documents, the acceptance of final payment shall, after the date of Substantial Completion of the Project, constitute a waiver of all Claims by the CONTRACTOR.
- K. The making of final payment shall not constitute a waiver of any claims or rights by the DISTRICT.

## 15. TERMINATION

- A. **Termination by the DISTRICT for Cause (Default).** If the CONTRACTOR refuses or fails to prosecute the Work, or any separable part thereof, with such diligence as will ensure its completion within the time specified within the Contract Documents, including any authorized extension thereof; or abandons the Work; or fails to perform the Work, in any manner, as required by the Contract Documents and/or industry standards; or fails to retain a valid Contractor's license of the classification required for the Work; or fails to complete such work within such time as required under the Contract Documents; or seeks to assign the Contract; or, if the CONTRACTOR should be adjudged as bankrupt, or is otherwise deemed insolvent by the DISTRICT based on good cause and is unable to proceed with the Work; or if the CONTRACTOR should make a general assignment for the benefit of creditors; or if a receiver should be appointed on account of insolvency; or if the CONTRACTOR files a petition to take advantage of any debtor's act; or should any Subcontractor materially violate any of the provisions of the Contract Documents; or if the CONTRACTOR should persistently or repeatedly refuse or fail to provide the required project management, supervision, quality control, and/or supply enough properly skilled workers or proper materials to complete the Work in the time specified; or if the CONTRACTOR should fail to make prompt payment to Subcontractors or suppliers for material or labor; or if the CONTRACTOR should persistently disregard laws or instructions given by the DISTRICT; or if the CONTRACTOR otherwise substantially fails to fulfill its obligations under, or commits a material breach of, or violates, the Contract Documents or any provision or term thereof; the CONTRACTOR shall be default under the Contract Documents. In such instance, the DISTRICT may, in its sole discretion, after providing the CONTRACTOR seven (7) Days' written notice, and without prejudice to any other remedy the DISTRICT may have:
- B. Provide any such labor, equipment, equipment and/or services required to perform the Work or designated portion of the Work or to correct any deficiencies or delays and deduct the cost from any money due or to become due to the CONTRACTOR, or if the money due or to become due to the CONTRACTOR is not sufficient to cover such amount, the CONTRACTOR shall pay the difference immediately to the DISTRICT upon demand; or
- C. Terminate the Contract, in its entirety or in part, effective immediately upon the DISTRICT's delivery to the CONTRACTOR and its Surety(ies) of a notice of termination of the Contract.
- D. Upon receipt of the notice of termination of the Agreement for default, the Surety shall immediately takeover and assume the control of and perform the Work as the successor to the CONTRACTOR and shall immediately assume all rights obligations and liabilities,

including Liquidated Damages, that have accrued under the Agreement. The Surety shall maintain the site of the Project and all of its safety controls. If the Surety fails to maintain the site of the Project, the DISTRICT may correct unsafe conditions and charge the Surety for costs incurred. If the Surety assumes the CONTRACTOR's terminated Work, it shall take the CONTRACTOR's place in all respects for that part and shall be paid by the DISTRICT for all work performed by it in accordance with the terms of the Contract Documents. If the Surety assumes the entire Agreement, all money due the CONTRACTOR at the time of its default, if any, shall be payable to the Surety as the work progresses, subject to the terms of the Contract Documents and any applicable bond, less all amounts due to the DISTRICT.

1. Within seven (7) days of its receipt of the notice of termination of the Agreement for default, the Surety shall provide to the DISTRICT a written plan detailing the course of action it intends to take to remedy the default of the CONTRACTOR. The DISTRICT will review and notify the Surety if the plan is satisfactory.
  2. If the Surety fails to submit a satisfactory plan or to maintain progress on the plan as accepted by the DISTRICT, or does not otherwise comply fully and completely to the DISTRICT's satisfaction with the terms of the bond and within the time periods stated therein, the DISTRICT may, in its sole discretion, take over the Work and prosecute the same to completion by contractor by any other method it may deem advisable for the account and at the expense of the CONTRACTOR. The Surety and CONTRACTOR shall be liable to the DISTRICT for any excess cost and all other damages and costs incurred by the DISTRICT thereby or to which the DISTRICT is entitled under the Contract Documents or by law, and shall pay the DISTRICT all such amounts within thirty (30) days after the DISTRICT submits an invoice for such amounts. In such an event, the DISTRICT may without liability for so doing, take possession of and utilize such materials, tools, equipment, supplies and other property belonging to the CONTRACTOR and/or assume assignment of any and all subcontracts for Subcontractors and/or suppliers that may be necessary to complete the Work. For any portion of such Work that the DISTRICT elects to complete by furnishing its own employees, materials, tools, and equipment, the CONTRACTOR and Surety shall compensate the DISTRICT for all costs related thereto. If requested by the DISTRICT, the CONTRACTOR shall demobilize, and shall remove any part or all of the CONTRACTOR's materials, supplies, equipment, tools, and construction equipment and machinery, from the Project site within 7 Days of such request; and if the CONTRACTOR fails to do so, the DISTRICT may remove or store, and after ninety (90) days sell, any of the same at the CONTRACTOR's expense.
  3. If a termination for default is asserted by the DISTRICT, and demand made upon Surety by the DISTRICT, Surety shall not tender the CONTRACTOR, or any affiliate thereof, as its completion contractor except as authorized in the bond and subject to the sole discretion of the DISTRICT.
- E. The CONTRACTOR hereby consents to assigning to the DISTRICT and/or the DISTRICT's replacement contractor all subcontracts and other agreements of any and all Subcontractors and/or suppliers that may be necessary to complete the Work in the event of a termination for default (or termination for convenience, as set forth below).

The CONTRACTOR agrees to obtain, by way of a subcontract provision, the consent of each and every Subcontractor and/or supplier for such assignment prior to the commencement of each such Subcontractor's and/or supplier's conduct of the Work.

- F. In the event of such termination for default, the CONTRACTOR will not be entitled to receive any further payment until the entire Work or disputed portion of the Work is completed and accepted by the DISTRICT. Any amounts due to the CONTRACTOR will be based on unit prices or lump sum bid and the quantity of work completed at the time of termination, less damages caused by acts of the CONTRACTOR, including but not limited to, all costs to complete the Work, all costs arising from professional services and attorneys' fees, and all costs incurred to insure or bond the work performed by any completion contractor and Subcontractors utilized to complete the Work. If such costs due to the DISTRICT on behalf of the CONTRACTOR exceed the unpaid balance, the CONTRACTOR or Surety shall pay the difference to the DISTRICT promptly upon demand. On failure of the CONTRACTOR to pay, the Surety shall pay all such amounts on demand by the DISTRICT. Nothing set forth herein shall limit Surety's obligations under the subject bonds or the timing thereof, which shall arise immediately upon the CONTRACTOR's default.
- G. The CONTRACTOR and the DISTRICT agree that nothing in this Section is intended to create a right of either party to recover attorney fees as prevailing party in any lawsuit on this Contract.
- H. In addition to all of its rights and remedies stated herein and under the Contract Documents and by law, the DISTRICT may also order the CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of the DISTRICT to stop the Work shall not give rise to any duty on the part of the DISTRICT to exercise this right for the benefit of the CONTRACTOR or any other person or entity.
- I. All obligations of the CONTRACTOR pursuant to the Contract Documents shall survive the termination for cause of the Agreement. The provisions of this Section are in addition to, and not in limitation of, any other rights or remedies under law or in equity available to the DISTRICT.
- J. If it is later determined that the DISTRICT's termination of the Agreement for default was wrongful, or the CONTRACTOR had an excusable reason for not performing, such as a fire, flood, or other event which was not the fault of or was beyond the control of the CONTRACTOR, the DISTRICT, after setting up a new performance schedule, may allow the CONTRACTOR to continue work, or treat the termination as a termination for convenience, and the rights and obligations of the DISTRICT and the CONTRACTOR shall be the same as if the termination had been issued for the convenience of the DISTRICT.
- K. **Termination by the DISTRICT for Convenience.** The DISTRICT may terminate the CONTRACTOR's performance under the Agreement for convenience, either in whole or in part, at its sole discretion for any reason, or when conditions encountered during the performance of the Work make it impossible or impracticable to proceed, or when the DISTRICT is prevented from proceeding with the Agreement by act of God, by law, or

by official action of a public authority, or upon a determination that such termination is in the best interest and convenience of the DISTRICT, or whenever the DISTRICT is prohibited from completing the Work for any reason.

- L. Upon receipt of a written notice of termination for convenience, the CONTRACTOR shall:
1. Stop work as specified in the written notice;
  2. Terminate all orders and subcontractors except as necessary to complete any portion of the Work that is not terminated;
  3. If directed in writing by the DISTRICT to do so, assign all right, title and interest in subcontracts and materials in progress, in which case the DISTRICT will have the right at its discretion to settle, or pay any or all claims arising out of the termination of such Subcontractors, but in no event shall recovery by any Contractor include lost profits for uncompleted portions of the Work;
  4. Deliver or otherwise make available to the DISTRICT all data, drawings, specifications, reports, estimates, summaries and such other information and material as may have been accumulated by the CONTRACTOR in performing the Work whether completed or in process;
  5. Settle outstanding liabilities and claims with the approval of the DISTRICT;
  6. Complete performance of such part of the Work as has not been terminated; and
  7. Take such other actions as may be necessary, or as may be directed by the DISTRICT for the protection and preservation of the Work and/or property related to the Work.
- M. Upon receipt of the DISTRICT's written notice of termination for convenience, the CONTRACTOR shall submit to the DISTRICT a request for final payment in accordance with the requirements of the Contract. Such request shall be submitted promptly, but no later than sixty (60) days from the effective date of the termination for convenience.
- N. The final payment to the CONTRACTOR after a written termination for convenience shall be limited to the following amounts due and owing under the Contract at time of termination: (1) Any actual costs incurred by the CONTRACTOR for restocking charges; (2) The agreed upon price of protecting the Work in any manner, if any, as directed by the DISTRICT; and (3) The Contract Price allocable to the portion of the Work properly performed or goods supplied by the CONTRACTOR as of the date of termination, as determined in accordance with the Contract Documents, reduced by any sums previously paid to the CONTRACTOR.
1. The above payment shall be the sole and exclusive remedy to which the CONTRACTOR is entitled in the event of a termination for convenience of the

Agreement; and the CONTRACTOR will not be entitled to any other compensation or damages and expressly waives same.

2. The CONTRACTOR shall not be entitled to payment for any work not performed, including, without limitation, overhead and profit on work not performed.
3. The DISTRICT shall have the right to withhold any portion or the whole of the final payment under this provision in the event there are any outstanding claims or rights asserted by the DISTRICT against the CONTRACTOR, or by any third party against the DISTRICT which arises out of the CONTRACTOR's Work.
  - a. All obligations of the CONTRACTOR pursuant to the Contract Documents shall survive the termination for convenience of the Contract.
  - b. The CONTRACTOR shall include this termination for convenience provision in all subcontracts and purchase orders of every tier, which shall be binding upon all Subcontractors and suppliers, of every tier.
  - c. Suspension by the DISTRICT for Convenience. The DISTRICT shall have the authority to suspend or delay the performance of the Work, in whole or in part, for such period for any reason as the DISTRICT may deem necessary. The CONTRACTOR must immediately comply with the DISTRICT's written order to suspend or delay the Work. The suspended or delayed Work can only be resumed upon written direction of the DISTRICT. A suspension or delay of Work as set forth in this Section shall not relieve the CONTRACTOR of its responsibilities as set forth elsewhere in the Contract Documents
  - d. In the event the DISTRICT orders a suspension or delay of the performance of the Work or any portion thereof for any reason the CONTRACTOR shall perform, at an agreed-upon cost with the DISTRICT, all the work necessary to (i) preserve and protect the Work and related facilities and improvements from weather and other environmental conditions during the period of suspension, (ii) repair any damage to the Work and/or related facilities and improvements occurring before, provide a safe, smooth, and unobstructed passageway through construction for use by public traffic and any other public use during the period of suspension. In the absence of an agreed-upon amount between the DISTRICT and the CONTRACTOR to perform such work, the CONTRACTOR shall proceed to perform as directed by the DISTRICT and the CONTRACTOR may seek an adjustment of the Contract Price, limited to the amount of its direct costs to perform such work, in accordance with this Agreement.
  - e. In addition to the suspension or delay of the performance of the Work, in the event the DISTRICT determines in the sole discretion of the DISTRICT that a situation exists where continuation of the Work would be illegal or endanger the health, safety or welfare of persons or property on or affected by the Work, the DISTRICT will have the right to order the CONTRACTOR in writing to delay or suspend the Work in whole or in part for a period of time equal to the period of time while such situation exists. Such order of the DISTRICT shall

not otherwise modify or invalidate in any way any of the provisions or requirements of the Contract Documents, and, notwithstanding anything to the contrary in the Contract Documents, the CONTRACTOR shall not be entitled to any damages or compensation from the DISTRICT on account of such delay or suspension.

## 16. RIGHT TO AUDIT

- A. **Maintenance, Inspection, and Audit of Records.** All books, account, reports, files, correspondence, data and other records relating to this Contract as described in this Article shall be maintained by the CONTRACTOR, its Subcontractors and material suppliers, and shall be subject at all reasonable times to review, inspection, and audit by the DISTRICT, and their agents, upon the request of the DISTRICT, in its sole discretion, and at all times during performance of the Work and for a period of five (5) years after Final Completion of the Work.
- B. **Accounting System.** Contactor shall exercise such controls as may be necessary for proper financial management of the Work. Such accounting and control systems shall comply with prevailing custom and practice for similar projects, be satisfactory to the DISTRICT and shall include preservation of records for a period of five (5) years after Final Completion, or for such longer period as may be required by Laws and Regulations.
- C. **Books and Records.** The CONTRACTOR shall keep, and shall require all Subcontractors and suppliers, of every tier, to keep, full and detailed books, records, information, materials and data, of every kind and character (hard copy, as well as computer readable data), that pertain to the performance of the Work or the Contract, and any matters, rights, duties or obligations relating to the Work or the Contract, including, without limitation, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, change orders, change order requests, estimates, field orders, schedules, diaries, logs, reports, shop drawings, samples, exemplars, drawings, specifications, invoices, delivery tickets, receipts, vouchers, canceled checks, memoranda; accounting records; job cost reports; job cost files (including complete documentation of negotiated settlements); back charges; general ledgers; documentation of cash and trade discounts earned; insurance rebates and dividends and other documents relating in any way to any claims, charges or time extensions asserted by the CONTRACTOR of any of the subcontractors.
- D. **Inspection and Copying.** The CONTRACTOR, its Subcontractors and suppliers shall allow the DISTRICT, and its authorized representative(s), auditors, attorneys and accountants, upon twenty-four (24) hour notice to the CONTRACTOR, full access to inspect and copy all such books and records identified in this Article at a location as designated by the DISTRICT.
- E. **Noncompliance by the CONTRACTOR.** The CONTRACTOR's compliance with any audit requested pursuant to this Article shall be a condition precedent to maintenance of any judicial or extra-judicial action arising from the Contract Documents. In addition to and without limitation upon the DISTRICT's other rights and remedies for breach, including any other provisions for withholding as set forth in the Contract Documents,

the DISTRICT shall have the right, exercised in its sole discretion, to withhold from any payment to the CONTRACTOR due under each current Application for Payment an additional sum of up to ten percent (10%) of the total amount set forth in such Application for Payment, until the CONTRACTOR and the subcontractors have complied with any outstanding and unsatisfied audit request by the DISTRICT under this Article. Upon compliance with this Article, any such monies withheld shall be released to the CONTRACTOR.

- F. **Enforcement by the DISTRICT.** The CONTRACTOR agrees that any failure by the CONTRACTOR, or any Subcontractor or supplier, to provide access to books and records as required by this Article shall be specifically enforceable by issuance of a preliminary and/or permanent mandatory injunction by a court of competent jurisdiction based on affidavits submitted to such court and without the necessity of oral testimony, to compel the CONTRACTOR, Subcontractors or suppliers to permit access, inspection, audit and/or reproduction of such records or the require delivery of such records to the DISTRICT for inspection, audit and/or reproduction. The CONTRACTOR shall expressly incorporate and make the requirements of this Agreement applicable to and binding upon all subcontracts, of any tier, and purchase orders in excess of \$25,000, at any tier. The CONTRACTOR shall also require that the audit provisions pursuant to this Agreement be included in all agreements, contracts or subcontracts in excess of \$25,000 entered into by Subcontractors and suppliers, of any tier.

#### 17. FAILURE TO ACT NOT A WAIVER OF RIGHTS

Except as expressly provided in the Contract Documents, no action or failure to act by the DISTRICT, shall constitute a waiver of any right afforded or duty imposed under the Contract Documents. No such action or failure to act shall constitute approval of or acquiescence in failure to perform in accordance with the Contract Documents.

#### 18. RIGHTS AND REMEDIES

Duties, obligations, rights and remedies prescribed by the Contract Documents shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed by or available under law.

#### 19. LAWS AND REGULATIONS

The CONTRACTOR shall give all notices and comply with all laws, ordinances, rules and regulations relating to the Project. If the CONTRACTOR observes that the Drawings and Specifications are at variance therewith, they shall promptly notify the DISTRICT in writing, and any necessary changes shall be adjusted as provided in the Agreement for changes in the work. If the CONTRACTOR performs any work contrary to such laws, ordinances, rules and regulations, and without written notice to the DISTRICT, they shall bear all costs arising therefrom and shall not be paid by the DISTRICT for performing such work.

#### 20. CUSTOMER RELATIONS

The CONTRACTOR agrees that its personnel and equipment shall at all times present a neat appearance; all work shall be done, all contacts with customers and all complaints handled with due regard for the DISTRICT's public relations. The CONTRACTOR agrees that

complaints of any nature received from the public or from public authorities shall receive immediate attention. All complaints and any action taken by CONTRACTOR with respect to such complaints shall be reported to the DISTRICT.

#### 21. NOTICES

Any and all notices or other matters required or permitted by this Agreement or by law to be served on, given to, or delivered to either party hereto by the other party to this Agreement shall be in writing and shall be deemed duly served, given, or delivered when personally delivered to the party to whom it is addressed or in lieu of such personal service, five (5) days after deposited in the United States mail, first-class postage paid, addressed to the DISTRICT at 11570 Donner Pass Road, Truckee, California 96161, or to the CONTRACTOR at \_\_\_\_\_.

Either party, the DISTRICT or the CONTRACTOR, may change its address for the purpose of this section by giving written notice of such change to the other party in the manner provided in this section.

#### 22. ATTORNEYS', EXPERTS' AND CONSULTANTS' FEES

In the event of any litigation concerning any controversy, claim or dispute between the parties hereto, arising out of or relating to this Agreement or the breach hereof, or the interpretation hereof, the prevailing party shall be entitled to recover from the losing party reasonable expenses, attorneys' fees, experts' fees, and consultants' fees, and costs incurred therein or in the enforcement or collection of any judgment or award rendered therein.

#### 23. CAPTIONS

The captions and headings of the different sections of this Agreement are inserted for convenience of reference only and are not to be taken as part of this Agreement or to control or affect the meaning, construction, or effect of the same.

#### 24. NECESSARY ACTS

Each party to this Agreement agrees to perform any further acts and execute and deliver any further documents that may be reasonably necessary to carry out the provisions of this Agreement.

#### 25. ASSIGNMENT

Neither party may assign this Agreement, or payments due under the Agreement, without the written consent of the other party.

#### 26. GOVERNING LAW

This Agreement shall be construed in accordance with, and governed by, the laws of the State of California.

27. FORUM

This Agreement and the Contract Documents shall be deemed to have been entered into in the County of Nevada, State of California, and governed by California law. By entering into this Agreement, the CONTRACTOR, on behalf of itself and its Surety(ies), consents and submits to the jurisdiction of Courts of the State of California, County of Nevada, over any action of law, suit in equity, and/or other proceeding that may arise out of the Contract Documents, and expressly waive the removal provisions of California Code of Civil Procedure Section 394.

28. SOLE AND ONLY AGREEMENT

This Agreement, including any exhibits attached hereto, constitutes the sole and only Agreement of the parties hereto relating to the Project and correctly sets forth the rights, duties and obligations of each to the other as of its date. Any prior agreements, promises, negotiations, or representations not expressly set forth in this Agreement are of no force and effect.

29. DISTRICT POWERS

Nothing herein contained shall be deemed to limit, restrict or modify any right, duty or obligation given, granted, or imposed upon the DISTRICT by the laws of the State of California now in effect, or hereafter adopted, nor to limit or restrict the power or authority of the DISTRICT.

30. SEVERABILITY

In the event that any part or provision of this Agreement is found to be illegal or unconstitutional by a court of competent jurisdiction, such findings shall not affect the remaining parts, portions, or provisions of this Agreement.

31. ASSIGNMENTS OF RIGHTS

The CONTRACTOR agrees to assign to the DISTRICT all rights, title, and interest in and to all causes of action it may have under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the Agreement and that such assignments shall be made and become effective at the time the DISTRICT tenders final payment to the CONTRACTOR, without further acknowledgement by the parties.

32. WORKMANSHIP

All work shall be done and completed in a thorough workmanlike manner notwithstanding any omission from these specifications or from the Drawings, and it shall be the duty of the CONTRACTOR to call the DISTRICT's attention to apparent errors or omissions and request instructions before proceeding with the work. The DISTRICT may, by appropriate instructions, correct errors, and omissions, which instructions shall be as binding upon the CONTRACTOR as though contained in the original Contract Documents

33. CHARACTER OF WORKPERSONS

Whenever, in the opinion of the DISTRICT, any superintendent, foreman, or workman employed by the CONTRACTOR or their subcontractors is disrespectful, intemperate,

disorderly, or otherwise objectionable, they shall, at the written request of the DISTRICT, be removed and not again be employed on the worksite without the written consent of the DISTRICT.

#### 34. CONDITION OF WORKSITE AND EQUIPMENT

- A. The CONTRACTOR at all times shall keep the Project site free from debris such as waste, rubbish, and excess materials and equipment. The CONTRACTOR shall use equipment that is in good working order and remove inoperable equipment. CONTRACTOR shall not store debris under, in, or about the premises. Upon completion of Work, the CONTRACTOR shall remove temporary fencing, barricades, planking and construction toilet and similar temporary facilities from site. The CONTRACTOR shall also clean all buildings, asphalt and concrete areas to the degree necessary to remove oil, grease, fuel, or other stains caused by CONTRACTOR operations or equipment.
- B. The CONTRACTOR shall fully clean up the Project site at the completion of the Work or such other time(s) as DISTRICT may reasonably request, in their sole discretion. If the CONTRACTOR fails to fully clean the Project site, at any time, to the satisfaction of the DISTRICT, the DISTRICT may do so and the cost of such clean up shall be back charged back to the CONTRACTOR.

#### 35. CONTRACTOR'S REPRESENTATIVE AND EMERGENCIES

- A. The CONTRACTOR shall, at all times during working hours, be represented in all matters pertaining to this project by one, and only one, fully competent and experienced general superintendent. Instructions and information given by the DISTRICT to the CONTRACTOR's superintendent on the work shall be considered as having been given to the CONTRACTOR. Before any work is done at the job site, the CONTRACTOR shall give written notice to the DISTRICT stating who the CONTRACTOR's superintendent will be, giving a telephone number at which they can always be reached day or evening. The DISTRICT shall be informed in writing prior to any change. A statement naming more than one representative at a time to be in charge and depending upon which is present at the time will not be acceptable.
- B. Emergencies may arise during the progress of the WORK which may require special effort or require extra shifts of workers to continue the WORK beyond normal working hours. The CONTRACTOR shall be prepared in case of such emergencies from whatever cause, to do all necessary work promptly.

#### 36. WORK INVOLVING TRENCHING OR EXCAVATION

For any work which involves digging trenches or other excavations that extend deeper than four feet below the surface, the CONTRACTOR shall promptly, and before the following conditions are disturbed, notify the DISTRICT, in writing, of any: (1) Material that the CONTRACTOR believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law; (2) Subsurface or latent physical conditions at the site differing from those indicated; or (3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily

encountered and generally recognized as inherent in work of the character provided for in the contract. The DISTRICT shall promptly investigate the conditions, and if it finds that the conditions do so materially differ, or do involve hazardous waste, or cause a decrease or increase in the CONTRACTOR's cost of, or time required for, performance of any part of the work shall issue a change order according to the procedure described in this Agreement. In the event a dispute arises between the DISTRICT and the CONTRACTOR whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the cost of, or performance of any part of the work, the CONTRACTOR shall not be excused from any scheduled completion date provided by this Agreement, but shall proceed with all work to be performed under this Agreement. The CONTRACTOR shall retain any and all rights provided either by this contract or by law which pertain to resolution of disputes and protests between contracting parties.

### 37. RESPONSIBILITIES OF DISTRICT

- A. The DISTRICT shall assume the responsibility, between the parties to this Agreement, for the timely removal, relocation, or protection of existing mainline or tapline utility facilities located on the site of any construction project that is a subject of this Agreement, if such utilities are not identified by the DISTRICT in the drawings and specifications. The CONTRACTOR shall be compensated for the costs of locating such utility facilities, repairing damage not due to the failure of the CONTRACTOR to exercise reasonable care, removing or relocating such utility facilities not indicated in the drawings and specifications with reasonable accuracy, and for equipment on the project necessarily idled during such work, and the CONTRACTOR shall not be assessed liquidated damages for delay in completion of the Project, when such delay was caused by the failure of the DISTRICT or the owner of the utility to provide for removal or relocation of such utility facilities.
- B. Nothing herein shall be deemed to require the DISTRICT to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the site of the construction project can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, on or adjacent to the site of the construction; provided, however, nothing herein shall relieve the DISTRICT from identifying main or trunklines in the drawings and specifications.
- C. Nothing herein shall preclude the DISTRICT from pursuing any appropriate remedy against the utility for delays which are the responsibility of the utility. Nothing herein shall be construed to relieve the utility from any obligation as required whether by law or by contract to pay the cost of removal or relocation of existing utility facilities.
- D. If the CONTRACTOR, while performing the Contract discovers utility facilities not identified by the DISTRICT in the Contract Drawings or Specifications, the CONTRACTOR shall immediately notify the DISTRICT and utility in writing.
- E. The DISTRICT, where it is the owner, shall have the sole discretion to perform repairs or relocation work or permit the CONTRACTOR to do such repairs or relocation work at a reasonable price.

38. NECESSARY TIME

The CONTRACTOR agrees to devote the time necessary to perform the services set forth in this Agreement in an efficient and effective manner. The CONTRACTOR may represent, perform services for and be employed by additional individuals or entities, in the CONTRACTOR's sole discretion, as long as the performance of these extra-contractual services does not interfere with or present a conflict with the DISTRICT's business.

39. NO ASSIGNMENT

No assignment by the CONTRACTOR of any rights under or interests in the Agreement will be binding on the DISTRICT without the advance written consent of the DISTRICT; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the CONTRACTOR from any duty or responsibility under the Contract Documents.

40. BOUND TO CONTRACT DOCUMENTS

The CONTRACTOR binds itself, and its partners, successors, sureties, assigns, and legal representatives to the DISTRICT, its partners, successors, assigns, and legal representatives, in respect to all covenants, agreements, and obligations contained in the Contract Documents.

41. UNENFORCEABLE PROVISION

Any provision or part of the Contract Documents held to be void or unenforceable under any law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the DISTRICT and the CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

42. RULES AND REGULATIONS

The CONTRACTOR acknowledges that the Project is or may be subject to requirements and regulations issued on behalf of various governmental and/or regulatory bodies. The CONTRACTOR agrees, on behalf of itself and its subcontractors, of any tier, to fully and promptly comply with any and all requirements and regulations issued on behalf of such entities.

43. ENTIRE AGREEMENT

This Agreement, inclusive of all Contract Documents, represents the entire agreement of the Parties concerning the subject matter hereof, and supersedes all prior negotiations, representations, or agreements of the parties, whether written or oral, with respect to such subject matter.

44. SURVIVAL OF TERMS

Any indemnity, warranty or guarantee given by the CONTRACTOR to the DISTRICT under this Agreement shall survive the expiration or termination of the Agreement and shall be binding upon the CONTRACTOR and their subcontractors and suppliers until any action is

barred according to terms in the Agreement or by the applicable statute of limitations or statute of repose. All obligations of the CONTRACTOR under this Contract shall survive the expiration or termination of this Contract.

TRUCKEE DONNER PUBLIC UTILITY DISTRICT

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

(Seal)

Attest: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

CONTRACTOR

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

(Seal)

Attest: \_\_\_\_\_

Name: \_\_\_\_\_

Typed

Title: \_\_\_\_\_

**-END OF SECTION-**

**SECTION 00600 – PERFORMANCE BOND**

This Construction Performance Bond (“Bond”), dated \_\_\_\_\_ is in the penal sum of \_\_\_\_\_, and is entered into by and between the parties listed below to ensure the faithful performance of the Construction Contract identified below. This Bond consists of this page and the Bond Terms and Conditions, Paragraphs 1 through 14, attached hereto. Any singular reference to \_\_\_\_\_ (“Contractor”), (“Surety”), the Truckee Donner Public Utility District (“DISTRICT”) or other party shall be considered plural where applicable.

CONTRACTOR:

SURETY:

\_\_\_\_\_  
Name

\_\_\_\_\_  
Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Principal Place of Business and Address

Truckee Donner Public Utility District  
11570 Donner Pass Road  
Truckee, Californian

CONSTRUCTION CONTRACT:  
Electric Construction System Hardening  
(SRIP 6)- 2026

Attn: Contract Administrator

DATED \_\_\_\_\_, 20\_\_\_\_,

IN WITNESS THEREOF, the above bounden parties have executed this instrument under their seals this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, the name and corporate seal of each corporate party being hereto affixed, and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

CONTRACTOR AS PRINCIPAL

SURETY

Company: (Corp. Seal)

Company: (Corp. Seal)

Signature:

Signature:

\_\_\_\_\_  
Name and Title:

\_\_\_\_\_  
Name and Title:

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

If CONTRACTOR is a partnership, all partners must execute BOND.

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

**PERFORMANCE BOND TERMS AND CONDITIONS**

1. The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the DISTRICT for the complete and proper performance of the Construction Contract, which is incorporated herein by reference.
2. If the Contractor completely and properly performs all of its obligations under the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond.
3. The Surety's obligation under this Bond shall arise after the DISTRICT has declared a Contractor Default under the Construction Contract pursuant to the terms of the Construction Contract. Upon declaring the Contractor in default, the DISTRICT shall agree to make the undisputed Balance of the Contract Sum available to the Surety for completion of the work on the Project under the Construction Contract.
4. When the DISTRICT has satisfied the conditions of Paragraph 3, the Surety shall promptly, and in no event later than seven (7) working days after receipt of any notice of default, and at the Surety's sole expense, confirm in writing as to its election to take one of the following actions:
  - A. Arrange for the Contractor, with consent of the DISTRICT, to perform and complete the Construction Contract (but the DISTRICT may withhold consent in its sole discretion (with or without cause), in which case the Surety must immediately elect option 4B, 4C or 4D, below), and that such performance shall commence within an additional thirty (30) calendar days; or
  - B. Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors (other than the Contractor), and that such performance shall commence within an additional thirty (30) calendar days; or
  - C. As promptly as reasonably possible, obtain bids from qualified, responsible contractors (other than the Contractor) acceptable to the DISTRICT for a contract for performance and completion of the Construction Contract, and, upon determination by the DISTRICT that the contractor selected with the DISTRICT's concurrence is responsible, and subject to full compliance with all applicable laws as may be required (including, without limitation, any applicable competitive bidding and public contracting and procurement requirements pursuant to California and/or Federal laws, if applicable), arrange for a contract to be prepared for execution by the DISTRICT and the contractor selected with the DISTRICT's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract and subject to the consent of the DISTRICT; and, if the Surety's obligations defined in Paragraph 6 exceed the Balance of the Contract Sum, then the Surety shall pay to DISTRICT the amount of such excess; or
  - D. Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and subject to its investigation and consultation with the DISTRICT, determine in good faith the amount for which it may then be liable to the DISTRICT under Paragraph 6 for the performance and completion of the Construction Contract and, within ten (10) additional calendar days, tender payment therefor to the DISTRICT with full explanation of the payment's calculation. If the DISTRICT accepts the Surety's tender under this paragraph 4(D), the Surety shall remain liable for future damages, then unknown or

unliquidated, and including, without limitation, additional costs incurred to complete the Construction Contract and any unsatisfied liquidated damages, resulting from the Contractor Default. If the DISTRICT disputes the amount of Surety's tender under this paragraph 4(D), the DISTRICT may exercise all remedies available to it at law to enforce the Surety's liability under paragraph 6.

5. If the Surety does not proceed as provided in Paragraph 4, then the Surety shall be deemed to be in default on this Bond ten (10) calendar days after receipt of an additional written notice from the DISTRICT to the Surety demanding that the Surety perform its obligations under this Bond. At all times the DISTRICT shall be entitled to enforce any remedy available to the DISTRICT at law or under the Construction Contract including, without limitation, and by way of example only, rights to perform work, protect work, mitigate damages, or coordinate work with other consultants or contractors.
6. The Surety's monetary obligations under this Bond are commensurate with the obligations of the Contractor under the Construction Contract. The Surety's obligations shall include, but are not limited to:
  - A. The responsibilities of the Contractor under the Construction Contract for completion of the Construction Contract and correction of defective, deficient and/or non-compliant work;
  - B. The responsibilities of the Contractor under the Construction Contract to pay liquidated damages, and for damages for which no liquidated damages are specified in the Construction Contract, actual damages, and all damages caused by non-performance or lack of proper performance of the Construction Contract, including but not limited to, all valid and proper back charges, offsets, payments, indemnities, and/or other damages;
  - C. Additional administrative, management, legal, design professional and delay costs resulting from the Contractor Default or resulting from the actions or failure to act of the Surety under Paragraph 4.
7. No right of action shall accrue on this Bond to any person or entity other than the DISTRICT or its heirs, executors, administrators, or successors.
8. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project to be performed thereunder shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project and the provisions of Section 2819 and 2845 of the California Civil Code. Without limiting the foregoing, such changes, extensions of time and alterations or additions shall include, but are not limited to, changes or alterations to the Contract Documents (including, without limitation, an increase in the Contract Price), extensions of Contract Time, or modifications of the time, terms, or conditions of payment to the Contractor. No extension of time, change, alteration, modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release or exonerate Surety on this Bond or in any way affect the obligations of Surety on this Bond.

9. Any proceeding, legal or equitable, under this Bond shall be instituted in the Superior Court for the County of Nevada.
10. As a part of the obligation secured under this Bond, and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees and expert costs, incurred by the DISTRICT in successfully enforcing any obligation arising under this Bond, all to be taxed as costs and included in any judgment rendered.
11. Notice to the Surety, the DISTRICT or the Contractor shall be mailed or delivered to the address(es) shown on the signature page.
12. Any provision in this Bond conflicting with any statutory or regulatory requirement shall be deemed deleted here from and provisions conforming to such statutory requirement shall be deemed incorporated herein.
13. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains, including any warranty and guarantee obligations. Nothing herein shall limit the DISTRICT's rights or the Contractor or Surety's obligations under the Contract Documents, law or equity, including, but not limited to, California Code of Civil Procedure Section 337.1 or 337.15.
14. Definitions:
  - A. Balance of the Contract Sum: The total amount payable by the DISTRICT to the Contractor pursuant to the terms of the Construction Contract after all proper adjustments have been made under the Construction Contract, for example, deductions for progress payments made, and increases/decreases for approved modifications to the Construction Contract.
  - B. Construction Contract: The Agreement between the DISTRICT and the Contractor identified on the signature page, including all Contract Documents and changes thereto.
  - C. Contractor Default: Material failure of the Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

**NOTE TO SURETY:**

The following form of acknowledgement should be used. If any other form of acknowledgement is used, there must be submitted a certified copy of unrevoked resolution of authority for the attorney-in-fact.

SURETY COMPANY ATTORNEY-IN-FACT  
STATE OF CALIFORNIA )  
COUNTY OF \_\_\_\_\_ ) ss.

On \_\_\_\_\_, before me, the undersigned, a Notary Public in and for the State, personally appeared \_\_\_\_\_, known to me to be the duly authorized Attorney-in-Fact of the corporate Surety named in the within instrument, known to me to be authorized to execute that instrument on behalf of said corporation, known to me to be the person whose name is subscribed to such instrument as the Attorney-in-Fact of said corporation, and acknowledged to me that he (she) subscribed the name of said corporation thereto as Surety, and his (her) own name as Attorney-in-Fact and that said corporation executed the same.

WITNESS MY HAND AND OFFICIAL SEAL:  
(SEAL)

\_\_\_\_\_  
Notary Public for the State of California.

Acknowledgement by Attorney-in-Fact must be attached.  
Corporate seals of Principal and Surety must be attached.  
(Place Seal Above or Enclose on Separate Paper if more space is required)

**-END OF SECTION-**

**SECTION 00610 – PAYMENT BOND**

KNOW ALL PERSONS BY THESE PRESENTS that the Truckee Donner Public Utility District (“District”), by its order made on \_\_\_\_\_, 2026, has awarded to \_\_\_\_\_, hereinafter designated as the “Principal,” a contract for the construction of the public work of improvement known as the Electric Construction System Hardening (SRIP 6).

NOW, THEREFORE, we the Principal and \_\_\_\_\_ (“Surety”), are held and firmly bound unto the District in the penal sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), lawful money of the United States of America for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, his/her or its heirs, executors, administrators, successors or assigns, shall fail to pay any of the persons named in Section 9100 of the Civil Code, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, any prevailing wages due and penalties incurred pursuant to the California Labor Code or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the Contractor and their subcontractors pursuant to Section 18806 of the Revenue and Taxation

Code with respect to such work and labor as required by Sections 9550 et seq. of the Civil Code of California, then said Surety will pay for the same, in or to an amount not exceeding the amount set forth herein, and also will pay in case suit is brought upon this bond, such reasonable attorney's fees, as shall be fixed by the court, awarded and taxed as in the above mentioned statutes provided.

AND, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Contract Document accompanying the same shall in any wise affect its obligations on this bond, and Surety does hereby waive the provisions of California Civil Code Section 2819 concerning any such consent to change, extension of time, alteration or addition to the terms of the contract, or to the work, or to the Contract Documents, or notice of the same.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument under their

seals this \_\_\_\_\_ day of \_\_\_\_\_, 2026, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Attestation on next page.

ATTEST:

\_\_\_\_\_  
Principal Secretary

\_\_\_\_\_  
Principal

(SEAL)

By \_\_\_\_\_ (s)

\_\_\_\_\_

\_\_\_\_\_  
Witness as to Principal

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Surety)

ATTEST:

\_\_\_\_\_  
(Witness to Surety)

\_\_\_\_\_  
(Attorney-in-Fact)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

If CONTRACTOR is a partnership, all partners must execute BOND.

**-END OF SECTION-**

## SECTION 00800 – SPECIAL PROVISIONS

### 1. DEFINITIONS AND TERMS

These definitions are supplemental to those defined elsewhere in the Contract Documents. Whenever in the Contract Documents the following terms are used, the intent and meaning shall be interpreted as follows:

- 1.1 ADDENDA - Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, drawings and specifications, by additions, deletions, clarifications or corrections.
- 1.2 AGREEMENT - The written contract between the DISTRICT and the CONTRACTOR covering the WORK to be performed; other Contract Documents are attached to the Agreement and made a part thereof as provided therein.
- 1.3 BID - The offer or Bid of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
- 1.4 BIDDER - Any person, firm or corporation submitting a Bid for the Work.
- 1.5 BONDS - Bid Bond, Performance Bond and Payment Bond and other instruments of security, furnished by the CONTRACTOR and its surety in accordance with the Contract Documents.
- 1.6 CALENDAR DAY - Any day shown on the calendar.
- 1.7 CHANGE ORDER - A document signed by the CONTRACTOR and the DISTRICT authorizing an addition, deletion or revision in the WORK and, if warranted, an adjustment in the Contract Price or the Contract Time, or terms and conditions of the Contract Documents, issued on or after the Effective Date of the Agreement.
- 1.8 CONTRACT DOCUMENTS - All items of the contract as defined in the Agreement.
- 1.9 CONTRACT PRICE - The total monies payable to the CONTRACTOR under the terms and conditions of the Contract Document.
- 1.10 CONTRACT TIME - The number of calendar days stated in the contract documents for the completion of the WORK
- 1.11 DISTRICT – The Truckee Donner Public Utility District, along with its authorized agents and representatives, including but not limited to managers, Project Manager, inspectors, engineers and consultants.

- 1.12 DRAWINGS – The part of the Contract Documents which show the characteristics and scope of the work to be performed and which have been prepared or approved by the DISTRICT.
- 1.13 FIELD ORDER - A written order effecting a change in the Work not involving an adjustment in the Contract Price or an extension of the Contract Time, issued by the DISTRICT to the CONTRACTOR during construction.
- 1.14 INSPECTOR - An authorized representative of the DISTRICT assigned to make any or all inspections of the work performed by the CONTRACTOR.
- 1.15 LABORATORY - A laboratory qualified to perform tests specified herein or other special laboratory designated by the DISTRICT or selected by the CONTRACTOR and approved by the DISTRICT.
- 1.16 NOTICE OF AWARD - The written notice of the acceptance of the Bid from the DISTRICT to the successful Bidder.
- 1.17 NOTICE TO PROCEED - The written notice given by the DISTRICT to the CONTRACTOR fixing the date on which the Contract Time will commence to run and on which the CONTRACTOR shall start to perform the CONTRACTOR's obligations under the Contract Documents.
- 1.18 OTHER AGENCIES - Any legal entity of the State of California, or any utility district or company (county, town, electric company, telephone company, water district, sewer district, etc.) that has any interest or control in construction or construction inspection, or are performing other work within or adjacent to the Project area.
- 1.19 SHOP DRAWINGS – All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a Subcontractor, manufacturer, supplier, or distributor, which illustrate how specific portions of the work shall be fabricated or installed.
- 1.20 SPECIFICATIONS – A part of the Contract Documents consisting of written descriptions of a technical nature of materials, equipment construction systems, standards and workmanship; also referred to as the Technical Specifications.
- 1.21 STANDARD SPECIFICATIONS - Whenever reference is made to the "Standard Specifications" such reference shall be made to those certain specifications entitled "State of California, Department of Transportation, Standard Specifications," latest edition, certain portions of which are made a part hereof by specific reference thereto.
- 1.22 Whenever the following underlined terms are used in the Standard Specifications, or in any of the Contract Documents or instruments governed by the Standard Specifications, they shall be defined as follows:

State: The DISTRICT.

Public Works Building: Office of the DISTRICT.  
Department of Public Works: The DISTRICT.  
Director of Public Works: The DISTRICT.  
State Highway Engineer: The DISTRICT.

Engineer: The Engineer retained by the DISTRICT or authorized representative of the DISTRICT, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

Laboratory: The established laboratory of the Materials and Research Department of the Department of Transportation of the State of California or laboratories authorized by the DISTRICT to test materials and work involved in the contract.

Reference is made to Section 1 of the Standard Specifications for other pertinent definitions.

- 1.23 SUBCONTRACTOR - An individual, firm, or corporation having a direct contract with the CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.
- 1.24 STANDARD PLANS - Whenever reference is made to the "Standard Plans" such reference shall be made to those certain plans entitled "State of California, Department of Transportation, Standard Plans," latest edition, certain portions of which are made a part hereof by specific reference thereto.
- 1.25 SUBSTANTIAL COMPLETION - That date as certified by the DISTRICT when the construction of the Project or a specified part thereof is sufficiently completed, in accordance with the Contract Documents, so that the project or specified part can be utilized for the purposes for which it is intended.
- 1.26 SUPPLIER - Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.
- 1.27 WORK - The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work includes and is the result of performing or furnishing labor and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents
- 1.28 WORKING DAY - Any calendar day, except as noted below on which weather or ground conditions do not prevent utilization of at least fifty percent of the usual daily man hours during regular working hours.
- 1.29 WORK PACKAGE - Information consisting of, but not limited to, cover sheet and map, instruction per work location, material summary, construction sketch and pole type(s) provided as part of a Work Package.

- 1.30 WRITTEN NOTICE - Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted as described in Section 00500 - Agreement to the said party at his last given address, or delivered in person to said party or his authorized representative on the work.

## 2. INVESTIGATION OF SITE AND CONDITIONS

The CONTRACTOR's attention is directed to the possible existence of pole lines, power lines, pipelines, buildings, structures, and other public or private improvements which may be within the limits of the work or adjacent thereto.

It shall be the responsibility of the CONTRACTOR to ascertain the exact location of all utility lines, surface or sub-surface installations or facilities, and no additional compensation will be paid because of any such installation or facilities encountered along the line of work, or for any delays caused by the location or replacement thereof. It shall be the responsibility of the CONTRACTOR to maintain all lines and utilities, and any other surface or sub-surface structure or installation of any nature that may be affected by the work. The CONTRACTOR is responsible for the protection of any loss of such utilities, facilities, or installations, and for any damage to any of the same, all of which such damage shall be repaired or replaced at the cost of the CONTRACTOR, and to the satisfaction of the DISTRICT of such facility or installation.

The CONTRACTOR shall be compensated for the costs of locating, repairing damage not due to failure of the CONTRACTOR to exercise reasonable care, and removing or relocating existing main or trunkline utility facilities located on the Project site that are not the subject of the Agreement, which are not indicated in the Drawings and Specifications with reasonable accuracy, and for equipment on the project necessarily idled during such work. The CONTRACTOR shall not be assessed liquidated damages for delay in completion of the Project, when such delay was caused by the failure of the DISTRICT or the owner of the utility to provide for removal or relocation of such utility facilities. If the CONTRACTOR, while performing the Agreement, discovers utility facilities not identified by the DISTRICT in the Drawings and Specifications, he or she shall immediately notify the DISTRICT and utility in writing. Where the DISTRICT is the owner of the facility, it shall have the sole discretion to perform repairs or relocation work or permit the CONTRACTOR to do such repairs or relocation as Extra Work.

## 3. SCHEDULES, REPORTS, AND RECORDS

1. The CONTRACTOR shall submit to the DISTRICT such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records, and other data where applicable as are required by the Contract Documents for the work to be performed.

2. Prior to the first partial payment estimate the CONTRACTOR shall submit construction progress schedules showing the order in which it propose to carry on the work, including dates at which they will start the various parts of the Work, and estimated date of completion of each part. The constructions schedule shall indicate the time of starting and completion of each major structure or phase of the Project and such intermediate phases as will serve for well-defined control points. It shall also indicate the anticipated date of receipt of major items of equipment, and all items of equipment receipt and installation of which is critical to the scheduled progress of the Project.

The construction schedule. When approved, shall not be changed without written consent of the DISTRICT. The CONTRACTOR shall assume the full responsibility for performing the Work in an orderly manner under the provisions of the Agreement.

If, in the opinion of the DISTRICT, the CONTRACTOR has fallen behind the approved progress schedule, the CONTRACTOR shall take such steps as may be required by the DISTRICT, including, but not limited to, increasing the number of personnel, shifts, and/or overtime operations, days of work, and/or the amount of construction equipment until such time as the work is back on schedule. They shall also submit for approval no later than the time of submittal of the next request for partial payment, such supplementary schedule or schedules as may be deemed necessary to demonstrate the manner in which the approved rate of progress will be regained, all without additional cost to the DISTRICT.

#### 4. SHOP DRAWINGS

- A. The CONTRACTOR shall provide shop drawings as may be necessary for the prosecution of the Work, and as required by the technical specifications. The DISTRICT shall promptly review all shop drawings. The DISTRICT's review of any shop drawing shall not release the CONTRACTOR from responsibility for deviations from the Contract Documents. The review of any shop drawings which substantially deviate from the requirements of the Contract Documents shall be evidenced by a Change Order.
- B. When submitted for the DISTRICT's review, shop drawings shall bear the CONTRACTOR's certification that they have reviewed, checked, and approved the shop drawings and that they are in conformance with the requirements of the Contract Documents.
- C. Portions of the Work requiring shop drawing or sample submittals shall not begin until the shop drawing or submission has been reviewed by the DISTRICT. A copy of each reviewed shop drawing and each reviewed sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the DISTRICT.
- D. The CONTRACTOR is referred to Section 01300 – Contractor Submittals for more detail regarding submittal requirements.

#### 5. MATERIALS, SERVICES AND FACILITIES

- A. It is understood that, except as otherwise specifically stated in the Contract Documents, the CONTRACTOR shall provide and pay for all labor, tools, equipment, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete and deliver the Work within the specified time.
- B. Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection.
- C. Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.

## 6. PATENTS

The CONTRACTOR shall pay all applicable royalties and license fees. They shall defend all suits or claims for infringement of any patent rights and save the DISTRICT harmless from loss on account thereof, except that the DISTRICT shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified.

However, if the CONTRACTOR has reason to believe that the design, process or product specified is an infringement of a patent, it shall be responsible for such loss unless he promptly gives such information to the DISTRICT.

## 7. MEASUREMENT AND PAYMENT

Payment will be made for work performed based on the unit price schedule on the Bid Form as determined by the DISTRICT. Full compensation for furnishing all labor, tools, equipment, and incidentals, and for doing all the work involved in complying with all of the requirements of the Contract Documents shall be considered as included in the unit prices on the Bid Form, and no additional compensation will be allowed therefor.

## 8. INSPECTION AND TESTING

When requested by the DISTRICT, the CONTRACTOR shall furnish a complete written statement of the origin, composition, and manufacture of any and all materials that are to be used in the Work.

All materials may be inspected, sampled and tested by the DISTRICT. The CONTRACTOR shall give sufficient advance notice of placing of order to permit tests to be performed before the materials are incorporated in the work and they shall afford such facilities as the DISTRICT may be required for collecting and making inspections. All samples shall be furnished by the CONTRACTOR without cost to the DISTRICT. The DISTRICT may waive

sampling and testing if adequate information, properly certified, is available to indicate that materials comply with terms of the specifications.

The CONTRACTOR shall furnish the DISTRICT with every reasonable facility for ascertaining whether or not the work as performed is in accordance with the requirements and intent of the Contract Documents. If the DISTRICT requests it, the CONTRACTOR at any time before acceptance of the Work shall remove or uncover such portions of the finished work as may be directed. After examination, the CONTRACTOR shall restore said portions of the work to the standards required by the Contract Documents. Should the Work thus exposed or examined prove acceptable, the uncovering or removing and the replacing of the covering or making good of the parts removed, will be paid for as provided under Section 00500 - Agreement, but should the work so exposed or examined prove unacceptable the uncovering shall be at the CONTRACTOR's expense. Inspection, supervision or observation by the DISTRICT shall not be considered as direct control of the individual workmen and their work. The direct control shall be solely the responsibility of the CONTRACTOR's foreman and superintendent.

The inspection of the Work shall not relieve the CONTRACTOR of any of its obligation to fulfill the Agreement as herein provided, and unsuitable materials may be rejected notwithstanding that such work and materials may have been previously overlooked and accepted or estimated for payment.

On all questions concerning the acceptability of materials, classifications or materials, execution of the Work, and the determination of costs, the decision of the DISTRICT shall be final and binding upon all parties.

The CONTRACTOR shall at all times maintain proper facilities and provide safe access to all parts of the Work, to the shops wherein the Work is in preparation and to all warehouses and storage yards wherein equipment and materials are stored for purposes of inspection by the DISTRICT.

Inspectors employed by the DISTRICT shall be authorized to inspect all work done and materials furnished. Such Inspection may extend to all or any part of the Work, and to the preparation, fabrication, or manufacture of the materials to be used. The Inspector is not authorized to alter or waive the provisions of the Contract Documents.

An inspector is placed on the Work to keep the DISTRICT informed as to the progress of the Work and the manner in which it is being done; also to call the CONTRACTOR's attention to any non-conformance with the Contract Documents. The Inspector will not be authorized to approve or accept any portion of the Work, to issue instructions contrary to the Contract Documents, or to act as foreman for the CONTRACTOR. The Inspector will have authority to reject defective material and to suspend any work that is being improperly performed, subject to the final decision of the DISTRICT.

The Inspector will exercise such additional authority only as may from time to time be delegated to them by the DISTRICT.

#### 9. LIMITS OF CONTRACTOR'S OPERATIONS

The CONTRACTOR will confine its operations within the limitations of construction easements or limits as shown on the drawings. If the CONTRACTOR's operations result in

damage to any privately owned facility outside the limitations of the construction easement, the CONTRACTOR shall, at its expense, repair such damage or indemnify the DISTRICT of the damaged property.

If the CONTRACTOR negotiates with property owners for use of land for construction operations outside the limits of the construction easements, it shall do so at its own risk and the DISTRICT will assume no liability for such use of private property. All agreements between the CONTRACTOR and private property owners shall be in writing and the DISTRICT will be furnished copies of such agreements.

Hauling vehicles transporting materials to and from the Project site either empty or loaded shall meet all the requirements and comply with all laws and regulations as would be required when traveling on a public street or highway for any other purpose.

It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of the Agreement to create the public or any member thereof a third party beneficiary hereunder, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

#### 10. CONTRACT TIMES, MILESTONES AND LIQUIDATED DAMAGES

The DISTRICT and the CONTRACTOR recognize that time is of the essence for the performance of the CONTRACTOR's obligations pursuant to this Agreement, and that the DISTRICT will suffer financial loss if the Work is not completed within the time specified in the Contract Documents, plus any extensions thereof. They also recognize that losses incurred by the DISTRICT for delay would be extremely difficult or impossible to calculate or ascertain. The DISTRICT and the CONTRACTOR recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by the DISTRICT if the Work is not completed on time. Accordingly, instead of requiring any such proof, the DISTRICT and the CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), the CONTRACTOR shall pay the DISTRICT the amounts as indicated below for each Day that expires after the time specified for each milestone.

The DISTRICT shall have the right to deduct the liquidated damages from any money in its hands, otherwise due, or to become due, to the CONTRACTOR, or to initiate applicable dispute resolution procedures and recover liquidated damages for nonperformance of this Agreement within the time stipulated.

When CONTRACTOR is in default for nonperformance within the stipulated Contract Times including any intermediate Milestone Dates, the DISTRICT shall notify the CONTRACTOR in writing within 3 Days after the Contract Times or intermediate Milestone Date, and deduct the liquidated damages in the amount stated in the Contract Documents from any monies due the CONTRACTOR.

The deductions of liquidated damages shall be in addition to any retainage withheld and shall be non-reimbursable.

The WORK shall be complete in accordance with the following schedule milestones:

Milestone No.	Milestone Description	Required Completion Date
1	Substantial Completion of Project	August 15, 2026
2	Final Completion of the Project	August 31, 2026

Liquidated damages for each calendar day that each milestone is not completely met, are as follows:

Milestone No.	Milestone Description	Amount of Liquidated Damages, Per Day
1	Substantial Completion of Project	\$500
2	Final Completion of the Project	\$500

## 12. MILESTONE COMPLETION

For a given milestone to be considered complete, the following portions of the WORK must be performed:

Milestone 1:

All poles, anchors, covered conductor, and ancillary equipment install per standards

Milestone 2:

- Completion of all other Work required by the Contract Documents, including but not limited to, demobilization, site cleanup and restoration, and submittal of as-built drawings.

## 13. COORDINATION AND INTERPRETATION OF PLANS AND SPECIFICATIONS

The Plans and Specifications, Contract Change Orders, and all supplementary documents are essential parts of the Contract Documents, and a requirement occurring in one is as binding as though occurring in all. They are intended to be coordinated and to describe and provide for a complete work.

Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in these Contract Documents, the CONTRACTOR shall request of the DISTRICT such further explanations as may be necessary and shall conform to such explanations as part of the Contract. In the event of any doubt or question arising regarding the true meaning of these Contract Documents, reference shall be made to the DISTRICT, whose decision thereon shall be final. In the event of any discrepancy, between any drawings and the details written thereon, the details shall be taken as correct.

In the event of a conflict between the Agreement and any of the other Contract Documents, the Document highest in precedence shall control and supersede the Document which is contrary to it. The order of precedence of the Contract Documents is as follows:

First: ... Supplemental Agreements, the last in time being the first in precedence.

Second: The Agreement.

Third: ..... Special Provisions.

Fourth: CONTRACTOR Proposal.

Fifth: ..... Notice to Contractors.

Sixth: ..... Instruction to Bidders.

14. SUSPENSION OF WORK

The DISTRICT shall have the authority to suspend the work wholly or in part, for such period as it may deem necessary, due to unsuitable prosecution of the work, or for such time as he may deem necessary due to the failure on the part of the CONTRACTOR to carry out orders given, or to perform any provisions of the Contract. The CONTRACTOR shall immediately comply with the written order of the DISTRICT to suspend the work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the DISTRICT.

15. CONTRACTOR'S WORKING HOURS

The CONTRACTOR shall comply with the restrictions on working hours indicated in the Town of Truckee Encroachment Permit (7:00 AM to 7:00 PM Monday through Friday).

16. DISTRICT'S WORKING HOURS

The standard workday of the DISTRICT is the period from 7:00 AM to 4:30 PM. The standard work week begins on Monday and ends on Friday, excepting legal holidays. The DISTRICT's legal holidays are defined as the following: New Year's Day, MLK Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Eve and Christmas Day.

Should the CONTRACTOR choose to perform work outside of these standard working hours, the CONTRACTOR shall notify the DISTRICT a minimum of two working days beforehand.

The CONTRACTOR shall schedule all inspection, testing and other activities requiring DISTRICT participation during the DISTRICT's standard working hours. If the CONTRACTOR desires to have inspection, testing or other activities requiring DISTRICT participation occur outside of those times, the CONTRACTOR shall reimburse the DISTRICT for the labor costs incurred by the DISTRICT.

In the event that DISTRICT inspectors, operations personnel, engineers or other agents of the DISTRICT are required to be at the Project Site later than the standards working hours noted above, the CONTRACTOR shall reimburse the DISTRICT for the additional labor costs incurred by the DISTRICT. Such reimbursement shall occur under the following situations:

- A. Failure by the CONTRACTOR to provide adequate labor or equipment to the project resulting in the work extending later than the standard working hours on a given day.
- B. Failure by the CONTRACTOR to properly plan and schedule the work, resulting in the work extending later than the standard hours on a given day.
- C. Failure by the CONTRACTOR to take care when excavating near known existing facilities, resulting in damage to existing facilities, the repair of which extends later than the standard working hours on a given day.
- D. The existence of a public safety hazard such as an active work zone, open trench, or similar situation that, in the opinion of the DISTRICT, required that DISTRICT personnel be present in order to protect public safety.
- E. Any other situation which, in the opinion of the DISTRICT, requires that DISTRICT personnel be present in order to ensure proper prosecution of the Work in accordance with the Contract Documents that extends later than the standard working hours on a given day.

17. LIMITATION OF DISTRICT'S RESPONSIBILITIES

The DISTRICT will not supervise, direct, control or have authority over or be responsible for the CONTRACTOR's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of the CONTRACTOR to comply with Laws and Regulations applicable to the furnishing or performance of the WORK. The DISTRICT will not be responsible for CONTRACTOR's failure to perform or furnish the WORK in accordance with the Contract Documents.

The District will not be responsible for the acts or omissions of the CONTRACTOR or any Subcontractor, any Supplier, or any other person or organization performing or furnishing any portion of the WORK.

18. CONSTRUCTION SAFETY

- A. The CONTRACTOR shall follow construction procedures necessary to provide a safe working condition through all phases of the project. Said procedures shall conform to the Safety Orders, Division of Industrial Safety, Title 8, California Administrative Code and all other provisions required by Federal, State, County and Town law or ordinance. The CONTRACTOR shall also conform to all applicable requirements of the Federal Occupational Safety and Health Administration.
- B. The CONTRACTOR is solely responsible for outlining the safety procedures to be followed by its workmen, all subcontractors, and related trades working on its job, and effectively assuring compliance with such procedures. The CONTRACTOR shall always provide for

the safety of the public both day and night where they are exposed to its construction operation.

- C. The DISTRICT, along with its representatives and agents, are not responsible for reviewing or approving the safety procedures followed by the CONTRACTOR.

**-END OF SECTION-**

# **ELECTRIC UTILITY CONSTRUCTION SYSTEM HARDENING PROJECT - 2026**

## **DIVISION 1**

### **GENERAL REQUIREMENTS**

## SECTION 01010 - SUMMARY OF WORK

### PART 1 – DEFINITIONS

#### 1.1 GENERAL

- A. The WORK to be performed under this Contract shall consist of furnishing tools, equipment, and all labor, transportation, and services, including fuel, power, water, and essential communications, and performing all WORK, or other operations required for the fulfillment of the Contract in strict accordance with the Contract Documents. The WORK shall be complete, and all WORK, materials, and services not expressly indicated or called for in the Contract Documents which may be necessary for the complete, safe and proper construction of the WORK in good faith shall be provided by the CONTRACTOR as though originally so indicated, at no increase in cost to the DISTRICT.

#### 1.2 Background

- A. The purpose of the project is to replace existing wood poles with metal poles and replace bare conductor with covered conductor.

#### 1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. The work under this Specification shall include; furnishing all equipment; furnishing care and protection of such equipment; furnishing all construction equipment, vehicles, on-site facilities, tools and supplies; and furnishing all labor, supervision, administration, management, and services as necessary to perform the construction completely conforming in all respects to the details and requirements in accordance with the Specifications, Drawings, and Contract Documents.

The principle components of the work consists of powerline construction elements for the site improvements of overhead distribution facilities . The project elements include, but are not limited to the following:

1. Provide all necessary submittals and records set forth in the Contract Documents.
2. Mobilize personnel, equipment, supplies and incidentals to the project site. The DISTRICT has not secured an off-site location for storage for equipment or materials. The CONTRACTOR shall store materials and equipment at the site in a manner that will not impede traffic or endanger the public. The CONTRACTOR is referred to the project Stormwater Pollution Prevention Plan (SWPPP) for more information. In some cases, due to site size restrictions, the CONTRACTOR may have to store materials elsewhere. Acquisition of any additional storage areas shall be the responsibility of the CONTRACTOR as described in Section 01550 – Site Access and Storage. In all cases, the CONTRACTOR shall be responsible for the safe storage and transport of the material to the jobsite.
3. Perform all site work improvements required by the WORK (Bid Schedule) including:

- 91 Pole Replacements (Wood to Metal)
  - ~8200 Feet of 4 wire 397.5 reductor (Bare to Tree Wire)
  - ~5000 Feet of 4 wire 1/0 reductor (Bare to Tree Wire)
  - Install/Replace 54 Anchors
  - Ancillary items such as crossarms, insulators, transfer existing electrical equipment
- B. Provide temporary buildings, trailers, or structures required for the CONTRACTOR's Work, including offices, a telephone, sanitary facilities, office equipment, furniture, and other items necessary for the performance of Work.
- C. Coordinate with the DISTRICT in the development of outdoor storage space, parking areas and construction site offices. These areas are to be developed in close proximity to the Work area and shall not impinge in any way on property not owned by the DISTRICT. The jobsite may offer limited storage or staging areas. The CONTRACTOR shall be responsible for the cost of any offsite storage or staging areas. The work site is located next to residential areas, and the CONTRACTOR shall be responsible for management of roadways, noise and dust in compliance with all local codes.
- D. Provide a secured area for storage of tools, equipment, and materials to be installed or used in the installation of Work. The CONTRACTOR shall be responsible for all items until accepted by the DISTRICT in conformance with the Contract Documents.
- E. Provide weather protection, including temporary heat, electric power, plastic coverings, or other items required for the protection of materials for installation, or being installed on site, until the work is accepted by the DISTRICT.
- F. Furnish and erect or install any staging, shoring, bracing, temporary steel, and any and all falsework of any character whatsoever necessary for the execution of the CONTRACTOR's Work. Include any relocation of equipment and all such items that shall be furnished, placed, and removed by the CONTRACTOR.
- G. Provide in the Work areas, in close proximity to the Work, fire extinguishers or sufficient size and quantity satisfactory to the DISTRICT and the local Fire Department.
- H. Furnish and maintain the required traffic controls, safety barricades, signage, and any other necessary safety devices. Prepare and implement a safety plan. Provide a copy to the DISTRICT.
- I. Perform site revegetation and appurtenant work specific to any disturbed vegetation that requires replacement as part of site restoration, complete in place, satisfactory to the DISTRICT. All work will be completed in compliance with Section 02900.

- J. Obtain and complete all work in compliance with any permits necessary for the CONTRACTOR's work. See Section 01450-Permits.

#### 1.4 SUBSURFACE CONDITIONS

- A. The CONTRACTOR is hereby notified that they are responsible for understanding the subsurface conditions of the area

#### 1.5 CONTRACT METHOD

- A. The Work hereunder will be constructed under a combination lump sum and unit price Contract. Payment for WORK shall be as described in Section 00310 – Measurement and Payment.

#### 1.6 EXPRESSION OF CONTRACTOR RESPONSIBILITY IN THE TECHNICAL SPECIFICATIONS

- A. Whenever in the Technical Specifications, requirements are expressed with active verbs and no subjects, the words, "The CONTRACTOR shall," have been omitted as a matter of style, and it is intended that the CONTRACTOR is the party responsible for taking the action required.

#### 1.7 WORK SEQUENCE

- A. The powerlines will remain in service during construction activities; however, the DISTRICT may allow the CONTRACTOR to take Planned Outages when the work cannot be safely done energized. The DISTRICT requires a NON-TEST/NON-RECLOSE anytime energize work is performed. *The* CONTRACTOR shall give 72 hours minimum notice to the DISTRICT to request de-energization of electric facilities prior to performing this work. Prior to the start of any work, it is the CONTRACTOR'S responsibility to ensure minimum clearances are maintained or the site is de-energized.
- B. The CONTRACTOR shall schedule and perform the WORK in such a manner as to result in the least possible disruption to the public's use of roadways, driveways, and utilities. Utilities shall include water, sewerage, drainage structures, ditches and canals, gas, electric, cable television, telecommunications, and telephone. The CONTRACTOR is responsible for obtaining an USA for all utilities in the vicinity.
- C. The CONTRACTOR shall not begin excavation activities until the Notice to Proceed has been issued. The CONTRACTOR shall provide 5 working days' notice to the DISTRICT prior to commencing construction.

#### 1.8 CONTRACTOR USE OF PROJECT SITE

- A. No Site will be provided to the Contractor

## 1.9 STORAGE AND PROTECTION

- A. Storage conditions shall be in accordance with manufacturer's instruction and be acceptable to the DISTRICT for all materials and equipment not incorporated in to the WORK but included in Applications for Payment. Proper environmental conditions shall be maintained by the CONTRACTOR at all storage facilities. The CONTRACT shall obtain any necessary off-site storage facilities and such facilities shall be accessible to the DISTRICT. The stored materials shall be insured for full value. Certificates of liability insurance coverage shall be submitted to the DISTRICT with the request for payment. All arrangements and costs for storage facilities shall be paid by the CONTRACTOR.
- B. The CONTRACTOR shall be responsible for loss, damage, sloughing, vandalism, theft, etc., of the products and WORK until Final Acceptance by the DISTRICT.

## 1.10 NOTICES TO OWNERS OF ADJACENT PROPERTIES AND UTILITIES

- A. The CONTRACTOR shall notify owners of adjacent property and utilities when prosecution of the WORK may affect them.
- B. When it is necessary to temporarily deny access by owners or tenants to their property, or when any utility service connection must be interrupted, the CONTRACTOR shall give notices sufficiently in advance to enable the affected persons to provide for their needs. Notices shall conform to any applicable local ordinance and, whether delivered orally or in writing, shall include appropriate information concerning the interruption and instructions on how to limit any resulting inconvenience.
- C. Utilities and other concerned agencies shall be contacted at least 7 days prior to cutting or closing streets or other traffic areas or excavating near underground utilities or pole lines.
- D. The CONTRACTOR shall review with the various utility companies the construction methods, safety procedures, and WORK to be done in the vicinity of utilities. When temporary relocation of utilities is necessary, sufficient advance notice shall be given to the utility involved.

## 1.11 PROJECT MEETINGS

- A. Preconstruction Conference:
  - 1. Prior to commencement of WORK at the Site, a preconstruction conference will be held at the offices of the DISTRICT. The Conferences shall be attended by the CONTRACTOR's Project Manager, its Superintendent, and its Subcontractors as the CONTRACTOR deems appropriate. Other attendees will be:
    - a. Representatives of DISTRICT
    - b. Governmental representatives as appropriate, including other local utilities

- c. Others as requested by CONTRACTOR or DISTRICT
- 
- 2. The purpose of the conferences is to designate responsible personnel, discuss Contact requirements, and establish a working relationship. Matters requiring coordination will be discussed and procedures for handling such matters established. The complete agenda will be furnished to the CONTRACTOR prior to the meeting date. However, CONTRACTOR shall be prepared to discuss all of the items listed below.
    - a. CONTRACTOR'S assignments for safety and first aid, including designated competent person(s) and the CONTRACTOR'S safety representative.
    - b. Status of CONTRACTOR'S insurance and bonds.
    - c. CONTRACTOR'S construction schedule.
    - d. Transmittal, review, and distribution of CONTRACTOR'S submittals.
    - e. Processing applications for payment.
    - f. Maintaining record documents.
    - g. Critical Work sequencing.
    - h. Field decisions and Change Orders.
    - i. Use of Project Site, storage areas, security and housekeeping.
    - j. Equipment deliveries and priorities.
    - k. Permits required for construction.
    - l. Utilities required for construction.
    - m. Contract authority and channels of communication.
    - n. Coordination with others.
  - 3. The DISTRICT will preside at the preconstruction conference and will arrange for keeping and distributing the minutes to all persons in attendance.
  - 4. The following emergency contacts for the DISTRICT are designated:  
**Shannon Hoyt: 530-582-3910 or 530-448-3014**  
**Cody LaPlaca: 530-582 3925 or 530-448-3016**

B. Progress Meetings:

- 1. The DISTRICT will schedule and hold progress meetings as deemed necessary by the DISTRICT. The CONTRACTOR, DISTRICT and all Subcontractors active on the Site shall attend each meeting. The CONTRACTOR may at its discretion request attendance by representatives of its Suppliers, manufacturers, and other Subcontractors.
- 2. The DISTRICT will preside at the meetings and will arrange for keeping and distributing the minutes. The purpose of the meetings will be to review the progress of the WORK, discuss safety, maintain coordination of efforts, discuss

commercial issues, discuss changes in scheduling, and resolve other problems which may develop. During each meeting, the CONTRACTOR is required to present any issues which may impact its WORK, with a view to resolve these issues expeditiously.

### 1.13 PUBLIC AWARENESS

- A. The CONTRACTOR is hereby notified that the general public and project site neighbors have concerns relative to construction activities. The construction planning and scheduling must continue to address the concerns presented by the neighborhood.
- B. The following are sensitive issues related to general public and project site neighbors:
  - 1. Safety in General is the most important Public Awareness issue. Safety in General includes the following:
    - a. Safety of children pertaining to school travel and play.
    - b. Safety of pedestrian areas around the construction area.
    - c. Safety of neighborhood vehicular traffic around the construction area.
    - d. Safety of personal property around the construction area.
    - e. Safe and effective traffic control measures.
  - 2. Dust Control.
  - 3. Minimizing the inconvenience to the community and neighborhood (i.e. access to businesses and residences).
  - 4. Control and limiting of construction traffic.
  - 5. Working cleanly within public rights-of-way.
  - 6. Staging and coordination of construction activity.
  - 7. Precautions to minimize noise.
  - 8. Maintenance and utilization of construction employee parking.
  - 9. Timely project completion.
  - 10. Working hours.

- C. The CONTRACTOR is hereby notified that the DISTRICT may hold periodic meetings with public citizens who reside in the neighborhood and community surrounding the Site. The DISTRICT will notify the CONTRACTOR of the dates of such meetings in writing at least 5 days prior to a meeting.
- D. At the request of the DISTRICT, the CONTRACTOR's representative shall attend up to 3 such meetings. The meetings will likely be held on weekdays after conclusion of the standard workday.

#### 1.14 CONSTRUCTION SAFETY

- A. The CONTRACTOR shall follow construction procedures necessary to provide a safe working condition throughout all phases of the project. Said procedures shall conform to the Safety Orders, Division of Industrial Safety, Title 8, California Administrative Code, and all other provisions required by Federal, State, County, and Town law or ordinance. The CONTRACTOR shall also conform to all applicable requirements of the Federal Occupational Safety and Health Administration.
- B. The CONTRACTOR is solely responsible for outlining the safety procedures to be followed by its workmen, all subcontractors, and related trades working on its job, and effectively assuring compliance with such procedures. The CONTRACTOR shall always provide for the safety of the public both day and night where they are exposed to its construction operation.
- C. The DISTRICT, its representatives, contractors, agents, and field inspectors are not responsible for reviewing or approving the safety procedures followed by the CONTRACTOR

### **TECHNICAL SPECIFICATIONS**

#### **INTRODUCTION**

The Work to be performed under this Contract shall consist of electric distribution system hardening improvements, including, but not limited to, the removal and replacement of existing wood poles with metal poles, the reconductoring of existing bare overhead conductors with covered conductor, the excavation and installation of pole and anchor foundations, the transfer, adjustment, or replacement of associated equipment and appurtenances, and all related work necessary to rebuild the facilities in accordance with the District's System Hardening standards.

The Contractor shall furnish all labor, supervision, equipment, tools, transportation, traffic control, and incidentals required to complete the Work in a safe, efficient, and workmanlike manner. All Work shall conform to the Contract Documents, the District's construction standards and specifications, applicable codes and regulations, and accepted utility industry practices.

The intent of the Work is to reconstruct existing distribution facilities to meet current System Hardening requirements, improve reliability, and enhance resilience to environmental and operational conditions. The Contractor shall coordinate all construction activities to maintain service continuity to the greatest extent practicable and shall perform all cutovers, transfers, and

related operations in accordance with the District's requirements and approved switching or work plans.

## **CONSTRUCTION SERVICES**

The District will identify, assign, and oversee work being performed. The Contractor's crew(s) is to complete each assignment within the estimated time and schedule, and in compliance with District Specifications and State requirements including California Public Utilities Commission (CPUC) General Order 95 (GO 95) and General Order 128 (GO 128). In addition, the Contractor must provide its own tools and equipment. Unless otherwise specified, all work is to be performed exclusively by the Contractor and all main and essential material for the work shall be provided by the District.

- A. Inspection tags or work orders for equipment and/or locations will be provided. These documents may not contain all the infractions or maintenance present but are required to be completed while performing work at that location. For example, where a G.O. 95 and/or 128 infraction exists but has not otherwise been identified by the District on such tag, the Contractor shall make corrections as though fully identified and specified.
- B. The Contractor shall provide all equipment, labor, and tools necessary to complete the assigned work. The necessary equipment and labor may vary based on the type of work the Contractor is asked to perform.
- C. The crew(s) are expected to be familiar with the work described in this contract.
- D. Contractor's equipment and tools should be certified to meet all mandated requirements. All personnel must be certified and trained to operate all equipment being used. The Contractor shall be required to furnish all necessary safety equipment including personal protective equipment (PPE) for their crew(s) to perform all electrical work assigned.
- E. The Contractor shall provide personnel who are trained, certified, and proficient in the skills necessary to complete the assigned work in a safe and efficient manner. Valid certification for personnel will be required and submitted prior to beginning any work. An employee from the District's Electric Operations division or an outside inspector will be assigned to oversee the construction crew(s) provided by the Contractor. The designated District employee(s) or inspector(s) will monitor the contracted crew(s) and assess the quality of work, ability to efficiently and safely complete assigned work, and proficiency of crew members' skills to handle assigned tasks.
- F. The Contractor is responsible for administrative management of the work performed, including but not limited to:
  - a. Provide list of all contract personnel and phone numbers. This list shall be updated any time there are personnel changes.
  - b. Keeping detailed records of work completed, the data will include address, time spent for work completed, equipment, labor, and material used.
  - c. Submitting as-built drawings
  - d. Tracking of invoices to ensure the contract amount does not exceed contract terms
  - e. Providing estimates for projects when requested
  - f. Providing written explanations for discrepancies for estimates and actuals for work completed

- g. Submitting change order requests

## **SCHEDULE**

- A. The regular working hours will be from 6:30 a.m. to 5:00 p.m. working four (4) days a week, a 4-10 work week Monday to Thursday, which will include a thirty (30) minute non-compensated lunch period. Contractor shall be allotted one weekly thirty (30) minute safety meeting. If the Contractor is requested by the District to work more than forty (40) hours in a work week, or more than 10 hours per day, the District will pay overtime rates based on bid items. All overtime work shall be pre-approved in writing by the District in advance of the work, no exceptions. The District reserves the right to change the work schedule and will provide a two (2) week notice of such change.
- B. The Contractor's crews shall not perform work on District holidays (New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving and the day following Thanksgiving, Christmas Eve, Christmas Day) Contractor shall receive no holiday compensation from District.

## **PAYMENT**

- A. Payment of the services shall be made in monthly progress payments in proportion to the amount of services performed. Invoices shall be turned in to the Project Manager. Completed work will be determined by the District and such determination will be final.
- B. The District may withhold payment of the whole or part of any amount due or claimed by Contractor to such extent as may be necessary to protect the District from loss on account of any of the following:
  - a. Defective work not remedied.
  - b. Any damages caused by Contractor, such as but not limited to third party claims or reasonable evidence indicating probable filing of such claims.
  - c. Failure of Contractor to make payment promptly to its employees, Suppliers, or Subcontractors.
  - d. Failure of Contractor to diligently maintain satisfactory progress required to meet the work completion schedule.
  - e. Any other breach by Contractor of its obligations under the Contract Agreement.

## **SAFETY**

- A. The Contractor shall be solely and completely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. The Contractor shall take all reasonable precautions for the safety of, and provide all reasonable protection to prevent damage, injury or loss to employees and other persons including the general public, and property including District facilities and private property. The Contractor shall comply with all federal, state, and local laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor will provide District Representative with Daily tailboard/job briefings sheets.
- B. The Contractor shall use EXTREME CAUTION at all times to ensure minimum approach distance (MAD) and working space limits are maintained from electric facilities.

- C. All employees and equipment working within a ten (10) foot proximity of energized conductors in excess of 300 volts shall be qualified lineman or qualified apprentices using appropriate tools and equipment. Personnel employed and considered qualified for line work by the Contractor shall meet and abide by all applicable OSHA 29 CFR 1910.269, and California Code of Regulation Title 8 Article 38 standards and requirements.
- D. Contractor shall ensure that all crews are equipped with, and maintain in good working order, the following items at all times while performing Work under this Agreement:
  - a. An Automated External Defibrillator (AED);
  - b. A fully stocked First Aid Kit compliant with applicable regulatory standards; and
  - c. Traffic safety equipment, including but not limited to cones, signage, and high-visibility devices, sufficient to protect workers and the public.
  - d. Contractor shall further ensure that all crew members are properly trained and qualified to utilize the above equipment in accordance with applicable laws, regulations, and industry standards.
- E. Proof of such qualification shall be in the form of individual identification cards or training records reflecting current status as lineworkers for each qualified employee and documentation of the Contractors training program that shall include, but not limited to, the following items:
  - a. First Aid and Cardiopulmonary Resuscitation
  - b. Aerial Device/Pole top Rescue
  - c. Training meeting all applicable standards and requirements of OSHA 29 CFR 1910.269, and California Code of Regulation Title 8 Subchapter 5.
- F. All qualified employees utilized by the contractor for line work must also provide proof of having performed such duties a minimum of eighteen (18) months under the supervision of a qualified journeyman lineman.
- G. The Contractor shall require all personnel to use the appropriate Protective Equipment as may be required by federal, state, and local laws. Such Protective Equipment shall include, but is not limited to, the following:
  - a. Hard Hats – complying with ANSI Standard Z89.1
  - b. Safety Glasses - complying with ANSI Standard Z87.1
  - c. Hearing Protection - complying with OSHA Hearing Conservation Standard 1910.95 and ANSI Standard S12.6
  - d. Boots, gloves, arc-flash and fire resistant clothing, and other protective equipment as necessary

## **COMMUNICATIONS**

- A. The Contractor shall provide its crews with acceptable communications devices for its own safe operations but must also include person-to-person communications devices, such as cellular telephones, capable of contacting the District for the purpose of reporting concerns or emergencies. Contractor crew leaders and the Contractor's field supervisor must also have such means of communications for contact purposes.
- B. The Contractor's field supervisor shall be reachable during all working hours via a cellular phone. The Contractor's cellular phone shall be portable type and holster mounted so the Contractor's field representative can carry it at all times to allow the District to contact the

Contractor's Field Supervisor. The Contractor shall pay all required communication expenses.

- C. The District may supply radios to the Contractor for direct contact with the District during normal work and emergencies.

## **TOOLS**

- A. Equipment is to consist of, but is not limited to, a combination aerial lift with insulated boom, line truck, and related devices. Each line crew shall have, in addition, all the necessary chain saws, small tools, climbing lines, rigging, ropes, etc. in order to efficiently and safely perform the work described in this Contact. The District will not loan or provide the Contractor with tools or equipment. In addition, the Contractor will need to be equipped with the following:
  - a. Anchor installation equipment required to install Hubbell Tough One anchors rated for 15,000 ft-lbs. torque. This includes, but is not limited to, Kelly Bar adapter, locking dog assembly and drive end wrench.
  - b. All tools and equipment reasonably needed for typical line construction.
- B. Trucks and trailers shall be clearly marked with the Contractor's name and/or logo.
- C. Mufflers and/or baffles shall be required on all equipment to control and minimize noise. The Contractor must comply with all applicable Town of Truckee noise regulations.

## **NOTIFICATION OF PROPERTY OWNERS**

- A. Property owners shall be notified a minimum of twenty four (24) hours by the Contractor prior to any scheduled line work on private property. Contractor shall discuss with the property owner the type of Work to be performed, identifying potential impacts to the property, the proposed route of all vehicles and equipment traveling over the property owner's property. Trespassing on private property is prohibited.
- B. The Contractor shall provide paper "door hangers" for use in officially notifying customers of impending work. Hangers shall contain information such as Company name, Address, Contact Name, Phone Number, etc. Contractor shall be responsible for proper distribution of said "door hangers".
- C. If the Contractor cannot obtain private property owner permission to perform the necessary work, the District will assist in notifying the property owner. If a property owner or resident objects to any necessary work, the Contractor may be required to delay that work until the objection is resolved. If the objection to work occurs while the work is in progress, the Contractor shall stop work immediately and notify the District. Work shall not resume at the location of an objection until authorized by the District. The District shall not be liable for any expense to the Contractor arising from Work delayed by a property owner's objections to tree trimming or refusal to give permission.
- D. Contractor shall certify that complaints of any nature received from property owners or public authorities resulting from this Work shall receive immediate attention and that all efforts shall be made to effect a prompt adjustment. If any damage is done to the property of others by Contractor's workforce, Contractor shall repair and restore at its sole expense any such property and correct any damage inflicted thereto, all to the complete satisfaction

of the owner(s) of the injured property. All complaints, and any action taken by Contractor in connection with such complaints, shall be reported to the District.

#### **SITE CONTROL AND CLEAN UP**

- A. The Contractor's work shall be performed in an environmentally responsible manner with regards to any and all material generated by the work. Upon completion of work, the area shall be cleaned to a condition at least equal to that which existed prior to the commencement of the work. Undergrowth and adjacent shrubbery or trees sustaining damage or injury due to the work shall receive corrective action. Final cleanup of the work area shall be satisfactory to the District and the affected property owners. Special care shall be taken to ensure that pruned material not remain aloft, either hanging on branches or District facilities. The contractor will be required to restore the site to its previous or better condition. The District will be the sole decision to determine if restoration work is adequate.
- B. The Contractor is to submit pre-construction and post-construction photos of each work location to the District representative. These photos will be used to document restoration to a condition at least equal to that which existed prior to the commencement of the work.
- C. Contractor is responsible for removal and disposal of all materials removed from the jobsite, including wood poles, crossarms, other framing materials, hardware, insulators, wire, cable, guy wires, brush, etc., unless otherwise notified by the District.

#### **DE-ENERGIZING CONDUCTORS**

- A. Whenever it is determined that an electrical hazard exists and line work needs to be performed with the lines de-energized, the Contractor or Contractor's foreman must make a formal request to the District to have the section of line in question de-energized and properly grounded for the length of time necessary to clear the hazard.
- B. If the electrical hazard is an emergency with the potential for personal injury, property damage or conductor/facility damage, the line in question will be de-energized as soon as possible after notification has been made to the District. If this is not the case, the District requires at least forty-eight (48) hours of notification for any planned outage.
- C. On a daily basis, the District will place the appropriate distribution feeder circuit(s) on "non-reclose" mode for construction operations, if deemed necessary by the District.

#### **UNSCHEDULED INTERRUPTION OF SERVICE**

- A. Contractor shall immediately notify the designated DISTRICT Representative of any work procedure errors which result in the interruption of service to customers, either momentary or sustained.

#### **MAINTAINING TRAFFIC AND PEDESTRIAN OPERATIONS**

- A. The Contractor must so conduct their operations so as to cause the least possible obstruction and inconvenience to public traffic. All traffic control and related devices shall

conform to requirements set forth in the Town of Truckee requirements. All traffic must be permitted to pass through the Work unless otherwise approved by the District.

- B. Full compensation for conforming to the requirements of this section will be deemed included in the prices paid or the various Contract items of Work and no additional allowances will be made therefore.
- C. The Contractor is solely responsible for providing adequate traffic control measures including signage, flaggers, cones, etc. Due to the need to accommodate and minimize inconvenience to the public, unless expressly specified or approved in writing by the District, no road closures shall be permitted. Public vehicular and pedestrian traffic must be allowed to travel through the Work area with an absolute minimum of interruption or impedance unless otherwise approved in writing by the District. The Contractor must make provisions for the safe passage of pedestrians around the area of Work at all times.
- D. Residents affected by the Work must be provided passage and access through the Work area to the maximum extent possible.
- E. Gutters and drainage channels must be kept clear and unobstructed at all times. All equipment shall be utilized in a manner that protects Town of Truckee streets, sidewalks, or other facilities from damage.
- F. Where approved in advance by the District, the Contractor must construct and maintain detours for the use of public traffic at their own expense. The Contractor shall submit a traffic control plan in writing at least 2 weeks prior to any disruption of normal traffic patterns. Failure or refusal of the Contractor to construct and maintain detours so approved at the proper time shall be a material breach of the Contract subject to any and all remedies available pursuant to the Agreement and at law and equity. Such remedies include, but are not limited to, termination pursuant to Article 10 of the Agreement.
- G. The Contractor shall be responsible for keeping all emergency services, including the Town of Truckee police and fire departments informed of obstructions to, or detours around any public or private roads caused by reasons of their operations.

## **PUBLIC SAFETY**

- A. The Contractor must at all times conduct the Work in accordance with Construction Safety Orders of the Division of Industrial Safety, State of California, to ensure the least possible obstruction to traffic and inconvenience to the general public, and adequate protection of persons and property in the vicinity of the work.
- B. No pedestrian or vehicle access way may be closed to the public without first obtaining permission of the District.
- C. Should the Contractor fail to provide public safety as specified or if, in the opinion of the District, the warning devices furnished by the Contractor are not adequate, the District may place any warning lights or barricades or take any necessary action to protect or warn the public of any dangerous condition connected with the Contractor's operations and the Contractor shall be liable to the District for, and the District may deduct from amounts due or that may become due the Contractor under the Contract, all costs incurred including, but not limited to, administrative costs.

## **INSPECTION**

- A. The District's Representative will inspect each area of the Work. In the event the inspection finds unsatisfactory work, the Contractor shall immediately correct the defective Work as directed by the District. Such corrective actions shall be at no additional cost to the District.
- B. The District shall decide any and all questions that may arise as to the quality or acceptability of the work performed and progress of the Work.

## **CONTACT INFORMATION**

- A. District Representatives:  
Cody Laplaca, Assistant Electric Operations Manager, (530) 448-3016 cell, (530) 582-3925 office  
Shannon Hoyt, Inspector (530) 448-3014 cell, (530) 582-3910 office
- B. Technical and Specification Information:  
Keith Renshaw, Electric Engineering Manager (530) 582-3935  
Sean McMahon, Electric Engineer (530) 582-3985

## **EQUIPMENT PARKING**

- A. During non-working hours, Contractor shall park equipment in a central location within Truckee, California approved by District's Representative. During the duration of the Contract, Contractor may be allowed to park equipment in a section of the District's property as designated by District's Representative. District assumes no liability for Contractor's use of this parking area. Contractor shall maintain the parking area in a clean and safe manner, and shall not store any petroleum products in, on or about the parking area. Contractor shall be responsible, and shall upon demand reimburse District promptly, for any property damage or loss suffered by District as a direct or indirect result of Contractor's use and occupancy of the parking area.

## **ELECTRIC OVERHEAD CONSTRUCTION**

### **SECTION 1 - SPECIFICATIONS**

#### **GENERAL**

- A. This specification covers the general requirements to perform work assigned to the Contractor on the District's electric overhead distribution poles, conductors, and equipment. This also includes all reconstruction and any related maintenance works thereof to correct any General Orders 95 and 128 infractions.
- B. Work may include replacements of poles, transformers, and air switches, connectors, cut outs, insulators, conductors, wires, brackets and miscellaneous line hardware where applicable.
- C. All workmanship and materials shall comply with the Districts Specifications in every aspect and shall meet all pertinent requirements of General Orders 95 and 128 of the California Public Utilities Commission.

- D. The District will inspect the Contractor's work for compliances with pertinent city and state requirements. All quality related infractions (General Orders 95 and 128) resulting from the work performed shall be corrected by the contractor prior to final payment.

## **DEFINITIONS**

- A. All definitions, terms, and abbreviations used in this specification have the same meaning as defined in the District's Construction Standards Drawing and specifications.

## **CONTRACTOR RESPONSIBILITY**

- A. The Contractor shall assume all responsibility for the completion of work and unless otherwise specified, shall furnish all labor, supervision, equipment, transportation, tools, and other facilities and services to complete the work in accordance with these specifications and applicable sections of the District Standard Drawings and Specifications.
- B. The Contractor shall assume the risk of loss, theft, or damage to all materials delivered and accepted until such materials have been completely installed and accepted by the District in writing. The Contractor's liability shall include damage to or loss of material in their possession, including material being loaded, unloaded, or handled.
- C. The Contractor shall exercise due care and diligence to adequately protect all properties/materials through duration of this contract. The Contractor shall replace or make necessary repairs to all third party property damages. If the contractor fails to promptly make the said repairs, the District will replace or repair at the Contractor's expense.
- D. While working within the District, the Contractor is representing the District and shall perform their work in a safe and professional manner. The Contractor shall avoid disputes with property owners/occupants, the general public, or others. Where practical, the Contractor shall perform the prescribed work to accommodate reasonable requests of the property owners/occupants. For any objections made by property owners/occupants, the District will assist the Contractor in developing a work plan before the work proceeds.
- E. The Contractor shall operate their equipment in accordance with the requirements of the District and the State of California to ensure the safety of their employees, staff, and the general public.
- F. The Contractor shall perform the work at their own risk until the work is fully completed and accepted by the District. In the event of any accident occurring before completion of work and acceptance by the District, including destruction to any materials, equipment and apparatus on public or private property, repairs or replacement for any related materials, equipment and apparatus so injured, damaged or destroyed will be at the Contractor's expense and to the satisfaction of the District.
- G. The Contractor is required to keep detailed, accurate records of equipment and personnel used to complete work. The Contractor is required to provide an estimate of time and equipment required for assigned work. The Contractor is expected to provide justifications

for discrepancies in actual costs versus estimated costs. The Contractor is required to submit as-built drawings for map changes if required.

- H. The Contractor shall coordinate and obtain permission with the District and work within a seventy-two (72) hour notice before performing distribution switching or live line work.
- I. The Contractor is responsible for monitoring the total amount of money charged under the contract and outstanding invoices. It is the Contractor's responsibility for ensuring that the total Contract amount is not exceeded.
- J. The Contractor shall contact Underground Service Alert (USA) 811, prior to any required excavation work and comply with all aspects of Government Code 4216.

## **MATERIALS**

- A. Unless otherwise specified, all main and essential material for the work will be furnished by the District.
- B. The contractor shall arrange for material pick up from the District with a minimum of three (3) days advanced notice. It is the contractor's responsibility to ensure they receive all the necessary material required for completing the work. The contractor shall notify the District of any needed changes to the material prior to proceeding with the prescribed work.
- C. After the Contractor has accepted materials in proper condition, Contractor shall be responsible for their protection from loss and damage of any nature until permanently installed and the District accepts the work.
- D. The Contractor is required to account for all material issued by the District. All unused material shall be returned within five (5) days of the contract end date. The Contractor shall be required to reimburse the District for all unaccounted material previously accepted and not installed.

## **CODES AND STANDARDS CODES, STANDARDS, ORDERS, & RULES**

- A. The following Codes, Standards, Orders, and Rules are generally applicable for all construction under this contract. In case of a conflict between any standards of construction, the stricter standards shall prevail:
  - a. Rules for overhead electric line construction, General Order No. 95 State of California (CPUC).
  - b. Rules for underground electric line construction, General Order No. 128 State of California (CPUC).
  - c. The District's Construction Standard Drawings and specifications, which will be provide to the Contractor.
  - d. Electric Service Requirements, which will be provide to the Contractor.
  - e. CAL/OSHA Title 8 Electrical Safety Rules.

## **PERMITS**

- A. All rights-of-way, easements, and permits necessary for installations on private property, properties of other governmental agencies, or railroad crossings will be secured by the District.
- B. The Contractor's crew may be required to complete training for work on railroad rights of way if necessary.

#### **OTHER WORK & SERVICES**

- A. The District reserves the right to employ or contract with other entities for the performance of other work in or about the assigned work locations.
- B. If any portion of the Contractor's work requires the work of another contractor or services provided by the District, the Contractor shall inspect and promptly report any defects in such work or services that render it unsuitable for the proper execution and results of the assigned work. Failure to inspect and report any defective work or unsatisfactory services shall constitute an acceptance by the Contractor as being fit and suitable for the proper execution and results of the work

#### **ELECTRIC OVERHEAD CONSTRUCTION**

#### **SECTION 2 - SAFETYScope**

- A. This part of the specification covers the general safety requirements.

#### **SAFETY**

- A. All work shall be conducted in a safe manner and in strict accordance with the rules of the State Division of Industrial Safety (Cal. OSHA) and Safety and Health Standards. The Contractor shall take all reasonable precautions necessary to protect all workers and other persons who may be in or about the construction area from personal injury and to prevent damage to the property of the District or others. Contractor shall submit their safety program to the District for review.
- B. Workers in the public rights-of-way shall wear high visibility safety vests and hard hats and all required Personal Protective Equipment (PPE).
- C. If any portion of the work is being done in an unsafe manner, the work shall be stopped until corrective actions have taken place to make it safe.
- D. The Contractor shall notify the District in writing of all accidents arising out of work being performed and shall submit a detailed report for each accident within twenty-four (24) hours of the incident.
- E. In any emergency threatening life, personal injury, or property, the Contractor shall, at its discretion and without instruction from the District, immediately act to prevent such threat to loss of life or property.
- F. The Contractor shall make arrangements for first aid and for the transportation of its own and its Subcontractors' injured personnel. The Contractor shall comply with all reporting regulations for all injuries. The Contractor shall notify the District of any injuries in writing/email within twenty-four (24) hours.

- G. The Contractor shall conduct operations and maintain work site to ensure the least possible obstruction and inconvenience to traffic, pedestrians, cyclists, and adjacent property owners.
- H. The Contractor shall remove and cleanup all debris and excess material from the job site at the end of each workday. After work has been completed, the Contractor shall restore planting areas and other areas abutting the worksite to prior conditions.
- I. Damage done by the Contractor during the course of work to the District or private property shall be repaired at the Contractor's expense. This includes but not limited to the repair of traffic loop detectors, tape striping, signs, markings, sidewalks, curb, gutter, pavement, etc. This work must be done immediately upon work completion.
- J. The Contractor shall furnish and maintain barriers, lights, and signs needed to warn the public adequately of the construction worksite and any dangerous conditions to be encountered as a result of the work in progress.
- K. When necessary, the Contractor is required to submit a Traffic Control Plan for District approval. The Contractor shall provide traffic control plans covering each typical situation to the District and get approval before starting any work.
- L. The Contractor shall not provide backup power by any means to the District's customers. If the customer has a complaint about a planned outage, the contractor will notify the District to handle the matter directly with the customer.

## **ELECTRIC OVERHEAD CONSTRUCTION**

### **SECTION 3 - INSTALLATION**

#### **SCOPE**

- A. This specification covers the general requirements to perform work assigned to Contractor crews on the District's overhead electric transmission and distribution poles, conductors and equipment. This includes construction and maintenance thereof.
- B. Work may include replacement of poles, transformers, air switches, connectors, insulators, conductors, and miscellaneous equipment. Inspection tags for poles will be provided, these tags may not contain all the infractions present but are required to be completed. Where a G.O. 95 and/or 128 infraction exists but has not otherwise been identified by the District on such tag, the contractor shall make corrections as though fully identified and specified.
- C. All workmanship and materials shall comply with the District's Construction Standards and specifications in every respect and shall meet all pertinent requirements of General Orders 95 and 128 of the California Public Utilities Commission. In addition, the District will inspect Contractors work for compliance with pertinent City and State Requirements.

### **WOOD/METAL POLE INSTALLATION**

A. New pole installation shall be identified by the District as “set in place” or “adjacent” to the existing pole and within one (1) foot radius from the existing pole. New poles should be set in the same yard when practical. Any deviation will require approval.

B. Setting Depth:

Pole Length (Feet)	Depth in Soil (Feet)
35	5.0
45	6.0
50	7.0
55	7.0

C. Size of Holes

a. Pole holes shall be excavated large enough to permit free entrance of the pole butt and proper tamping of backfill through the entire pole setting depth.

D. Backfill

a. Native soil shall be used as backfilling material unless otherwise specified.

E. Tamping and Placing Backfills

a. Each hole shall be filled in layers (lifts) not exceeding twelve (12) inches with suitable backfill as specified above and thoroughly tamped into a compact mass. The earth shall be banked up approximately 6-inches around the pole above ground level and tamped firmly. Air tamps utilizing 90-psi minimum pressure must be used for tamping.  
 b. Any hole dug by mechanical means shall have the loose earth at the bottom of the hole tamped to original compaction before setting the pole.

F. Water in Holes

a. Water standing in holes shall be removed before setting and tamping the pole. If water runs back in after the pole is set and cannot be removed before backfilling and tamping, fieldstones with sand tamped between the voids shall be used for backfill until the water level in the hole has been passed. The stone and backfill shall be tamped as specified above to form a compact mass.

G. Dry Earth Holes

a. If earth removed from holes is too dry to prevent proper tamping, the backfill shall be moistened until the earth can be tamped into a compact mass.

H. Bolts

a. Bolts shall extend a minimum of two (2) full threads and not more than one (1) inch beyond nut.

I. Exposed Wood

a. All empty holes shall be plugged unless otherwise instructed. Where pole tops are removed a properly sized split bolt shall be installed four inches from the pole top.

J. Gaining

- a. Plastic or metal gains are the preferred method for new installations. Poles shall be framed true and square to the line and all hardware well tightened and fitted using double coil spring washers.
- K. Angle and Dead-end Poles
  - a. Angle and dead-end poles shall be raked at least one-quarter, but no more than one, pole top diameters against wire strain.
- L. Anchors
  - a. All anchors shall be placed in line with the strain they are to support. No conductors shall be sagged until the anchors are set and the guys at tension.

### **INSULATOR AND HARDWARE INSTALLATION**

- A. Before installation, Contractor shall make sure that each type of insulator or insulator assembly is in accordance with the District Construction Standards and specifications.
- B. No chipped, broken, split, or torn insulators shall be utilized. The insulators shall be wiped with clean rags to remove dirt or other foreign matter. Porcelain surfaces shall be wiped to a bright finish.
- C. All hardware shall be well tightened and fitted with double-coil spring washers.

### **CONNECTOR INSTALLATION**

- A. All Connectors will be TE Ampact Wedge Connectors except for cutout and transformer lead connectors to Ampact Stirrup. If TE Ampact connectors are not available, Parallel Groove Clamps and or H style press connectors will be utilized.
- B. Contract shall furnish the appropriate tools to install the TE Ampact Connectors
- C. Stirrup Wedge connectors shall be used for transformer and cutout leads. Tap Connectors can be used on Stirrup only.
- D. All connectors must be covered
- E. Thoroughly clean surfaces of the conductor of all foreign matter at the fitting location. Remove sections of the conductor damaged by the application of gripping attachments before conductors are spliced with permanent compression splices.
- F. Make compressions so that the splice remains in a straight line after compressions are performed.
- G. After completion of the pressing operations, remove all wrapping, binding, and excess grease and compound. The strands of the conductor shall be seated snugly when the splice is completed.

- H. Make compressions so that the splice remains in a straight line after compressions are performed.
- I. Remove burrs and die marks from splices, deadend fittings, and jumper terminals.
- J. Use procedures for installing compression splices as recommended by the manufacturer. Use the manufacturer-recommended filler compound. Select the correct die by matching the index numbers stamped on both the die and the die set. Hold the weight of the conductor off the dies.
- K. Install all bolted connections (e.g. PG Clamps) and deadend clamps, and torque bolts in accordance with manufacturer recommendations.
- L. Provide tools necessary to install TE Fired Wedge Connectors (District will provide required part numbers upon award of the contract)

### **CROSSARM INSTALLATION**

- A. All crossarm assemblies supporting primary or secondary conductors shall have the braces bolted to the pole unless using Fiberglass crossarms

### **CONDUCTOR INSTALLATION**

- A. Conductors shall be installed as directed by the District.
- B. Conductor stringing operations shall be performed as to cause no damage to existing under- built utilities or to the conductor.
- C. No conductor stringing shall take place until all guys and or anchors required to support the conductor are in place and at tension.
- D. All final conductor installations shall present a neat, professional, and workman-like appearance.
- E. All conductor must be covered
- F. No Splices are allowed unless authorized by the District. All Splices must be covered
- G. All salvaged conductors shall be returned to the District, segregated by type, with any hardware removed and placed in assigned bins.
- H. No overhead service aerial trespass or G.O. 95 infraction shall be allowed.

### **TRANSFORMER INSTALLATION AND REMOVAL**

- A. The contractor is expected to ensure the nameplates on all transformers to conform to circuit requirements before energizing and connecting any services to it.
- B. Contractor shall use great caution in the removal and transportation of transformers, placing the transformers in provided oil containment bags as necessary, and returning them to the assigned area at the District.

- C. Single phase transformers installed on poles where three phases are available, shall be placed on the phases as directed by the District.
- D. The Contractor shall keep accurate records of all the transformers either being installed or removed. The data shall include address, pole number, size, facility identification number, manufacturer, and serial number of all transformers being placed in service and/or removed.
- E. The Contractor shall test and record secondary voltage before connecting customer load. Phase rotation shall be checked, verified and recorded where applicable. The contractor will notify the District of any abnormal voltage measurements.
- F. Transformers with taps shall be energized only on the proper tap for the primary voltage in use.
- G. All salvaged transformers shall be returned to the District and clearly tagged with the date of removal and the address from which the transformer was removed. All associated hardware shall be removed from the transformer and placed in the District's designated bins.

#### **AIR SWITCH INSTALLATION AND UPGRADES**

- A. All air switches will be framed with great care, adjusted, and tested for correct operation before being energized.

#### **TREATED WOOD DISPOSAL**

- A. Deteriorated poles and/or cross arms shall be reduced to a maximum length of 10' for proper disposal by the Contractor and placed in the treated wood bin provided by the District.

#### **SWITCHING OPERATIONS, CUSTOMER OUTAGES & COMMUNICATION**

- A. The Contractor shall follow established procedures for obtaining clearances, switching etc., from the District. No primary switching shall be done without permission. The Contractor shall obtain approval from the District prior to commencing any work that involves working on or near energized lines and shall notify upon completion of all such work.
- B. The Contractor is responsible for properly testing circuits, de-energizing and **grounding** when required.
- C. The Contractor is to arrange for a Non-Auto (Non-Test or Non-Reclose) on all circuits prior to any work where equipment or personnel could make contact with energized lines. This includes all live line work installing or removing poles, transformers or protective items.
- D. The Contractor shall provide the District with an exact diagram of any circuit changes at the end of every workday upon verifying the accuracy of such changes.
- E. A minimum forty-eight (48) hour notice is required for residential customer shutdowns.
- F. A minimum one (1) week notice is required for any commercial customer shutdowns.
- G. The contractor shall contact the occupants of the premises prior to working on their property. Notices shall be dropped/hanged/taped where feasible.

- H. The Contractor shall post “No Parking Signs” at least forty-eight (48) hours in advance of the intended work date. The contractor will list their contact information on the signs when posting.
- I. The Contractor will not trim trees without prior approval from District Electric Operations and shall coordinate any tree trimming required

## **ELECTRIC UNDERGROUND CONSTRUCTION**

### **SECTION 1 - SPECIFICATIONS GENERAL**

- A. The work assigned to the Contractor will be performed on the District’s Utility electric underground distribution system and may include but not limited to: installation, replacement, and removal of cable, transformers, switches, connectors, load break cabinets, and miscellaneous equipment and/or devices.
- B. The Contractor shall provide all labor and equipment including hand and power operated tools necessary to complete the assigned work. Work to be performed is different at various locations and a scope of work for each assignment will be provided by the District.
- C. All workmanship, equipment, and materials shall comply with the District’s Construction Standards and specifications in every respect and shall meet all pertinent requirements of General Orders 95 and 128 of the California Public Utilities Commission (CPUC).

### **OTHER WORK & SERVICES**

- A. The District reserves the right to employ or contract with other entities for the performance of other work in or about the assigned work locations.
- B. If any portion of the work requires the work of another contractor or services provided by the District, the Contractor shall inspect and promptly report any defects in such work or services that render it unsuitable for the proper execution and results of the assigned work. Failure to inspect and report any defective work or unsatisfactory services shall constitute an acceptance by the Contractor as being fit and suitable for the proper execution and results of the work.

### **CONTRACTOR RESPONSIBILITY**

- A. The Contractor shall assume all responsibility for the completion of work and unless otherwise specified, shall furnish all labor, supervision, equipment, transportation, tools, and other services to complete the work in accordance with these specifications.

- B. The Contractor shall exercise due care and diligence to adequately protect all properties and materials through duration of this contract. The Contractor shall replace or make necessary repairs to public or private property and to any materials, equipment, and apparatus if an incident should occur. If the contractor fails to promptly make the said repairs and to the satisfaction of the District, the District will replace or repair at the Contractor's expense.
- C. The Contractor shall operate their vehicles and equipment in accordance with the requirements of the District and the State of California to ensure the safety of their employees and the general public.
- D. The Contractor is required to keep detailed and accurate records of equipment and personnel used to complete work. The Contractor is required to submit as-built drawings for map changes as required.
- E. The Contractor shall request a ticket via Underground Service Alert (USA) 811 prior to any required excavation work and comply with all aspects of Government Code 4216.

#### **SWITCHING OPERATIONS, CUSTOMER OUTAGES, & COMMUNICATION**

- A. The Contractor shall follow established procedures for obtaining clearances and switching from the District. No primary switching shall be done without permission. The Contractor shall obtain approval from the District prior to commencing any work that involves working on or near energized lines and shall notify upon completion of all such work.
- B. The Contractor is responsible for properly testing circuits, de-energizing, and grounding when required.
- C. The Contractor is to arrange for a Non-Auto (Non-Test or Non-Reclose) on all circuits prior to any work where equipment or personnel could make contact with energized lines.
- D. The Contractor shall provide the District with an exact diagram of any circuit changes at the end of every workday upon verifying the accuracy of such changes.
- E. The Contractor shall contact the occupants of the premises prior to working on their property in the form of Planned Shutdown Notices, which shall be hand delivered, hanged, or taped where feasible. The Contractor shall coordinate all planned shutdowns with the District to ensure we meet the notice requirements for both residential and commercial customers.
- F. The Contractor shall post "No Parking Signs" at least forty-eight (48) hours in advance of the intended work date. The Contractor will list all required information on the signs such as their contact information.
- G. The Contractor is representing the District and shall perform their work in a safe and professional manner. The Contractor shall avoid disputes with property owners/occupants, the general public, or others. Where practical, the Contractor shall perform the prescribed work to accommodate reasonable requests of the property owners/occupants. For any objections made by property owners/occupants, the District will assist the Contractor in developing a work plan before the work proceeds.

- H. The Contractor will not clear vegetation without prior approval from Electric Operations and shall coordinate any vegetation issues with Electric Operations.

## **MATERIALS**

- A. Unless otherwise specified, all main and essential material for the work will be furnished by the District.
- B. The Contractor shall assume the risk of loss, theft, or damage to all materials delivered and accepted until such materials have been completely installed and accepted by the District. The Contractor's liability shall include damage to or loss of material in their possession, including material being loaded, unloaded, or handled.
- C. The Contractor shall arrange for material pick up from the District, with a minimum of three (3) days advanced notice. It is the Contractor's responsibility to ensure they receive all the necessary material required for completing the work. The Contractor shall notify the District of any needed changes to the material prior to proceeding with the prescribed work.
- D. The Contractor is required to account for all material issued by the District. All unused material shall be returned within five (5) days of the contract end date. The Contractor shall be required to reimburse the District for all unaccounted material previously accepted and not installed.

## **CODES, STANDARDS, ORDERS, & RULES**

- A. The following Codes, Standards, Orders, and Rules are generally applicable for all construction under this contract. In case of a conflict between any standards of construction, the stricter standards shall prevail.
  - a. Rules for overhead electric line construction, General Order No. 95 State of California (CPUC).
  - b. Rules for underground electric line construction, General Order No. 128 State of California (CPUC).
  - c. The District's Construction Standard Drawings and specifications, which will be provide to the Contractor.
  - d. The District's Electric Service Requirements, which will be provide to the Contractor.
  - e. CAL/OSHA Title 8 Electrical Safety Rules.

## **PERMITS**

- A. All rights-of-way, easements, and permits necessary for installations on private property, properties of other governmental agencies, or railroad crossings will be secured by the District.

- B. The Contractor's crew may be required to complete training for work on railroad rights of way when necessary.

## **ELECTRIC UNDERGROUND CONSTRUCTION**

### **SECTION 2 - SAFETY**

#### **SAFETY**

- A. All work shall be conducted in a safe manner and in strict accordance with the rules of the Division of Occupational Safety and Health (DOSH), better known as Cal/OSHA. The Contractor shall take all reasonable precautions necessary to protect all workers and other persons who may be in or about the construction area from personal injury and to prevent damage to the property of the District or others. The Contractor shall submit their safety program.
- B. The Contractor and the District will schedule "tailboard" meetings to assign work, review general rules and best practices regarding safety, arranging shutdowns, clearances, typical installations, equipment, and compliance.
- C. Workers in the public rights-of-way shall wear high visibility safety vests, hard hats, and all required Personal Protective Equipment (PPE).
- D. If any portion of the work is being done in an unsafe manner, the work will be stopped until corrective actions have taken place to make it safe.
- E. The Contractor shall notify the District in writing of all accidents arising out of work being performed and shall submit a detailed report for each accident within 24 hours of the incident.
- F. In any emergency threatening life, personal injury, or property, the Contractor shall, at its discretion and without instruction from the District, immediately act to prevent such threat to loss of life, personal injury, or property.
- G. The Contractor shall make arrangements for first aid and for the transportation of its own injured personnel. The Contractor shall comply with all reporting regulations for all injuries. The Contractor shall notify the District of any injuries in writing/email within 24 hours.
- H. The Contractor shall conduct operations and maintain work site to ensure the least possible obstruction and inconvenience to traffic, pedestrians, cyclists, and adjacent property owners.
- I. The Contractor shall remove and cleanup all debris and excess material from the job site at the end of each work day. After work has been completed, the Contractor shall restore planting areas and other areas abutting the worksite to prior conditions.
- J. The Contractor shall furnish and maintain barriers, lights, and signs needed to warn the public adequately of the worksite and any dangerous conditions to be encountered as a result of the work in progress.
- K. When necessary, the Contractor is required to submit a Traffic Control Plan and get approval before starting any work.

- L. The Contractor shall not provide backup power by any means to the District's customers. If the customer has a complaint about a planned shutdown, the Contractor will notify the District to handle the matter directly with the customer.

**ELECTRIC UNDERGROUND CONSTRUCTION**

**SECTION 3 – INSTALLATION**

**EQUIPMENT - PADMOUNT TRANSFORMERS, CABLE, CONNECTORS, SWITCHES, LOAD BREAK CABINETS, AND APPURTENANCES**

- A. All equipment shall be installed per manufacturer's directions and in conformance with good industry practice.
- B. The Contractor is expected to ensure the nameplates on all transformers to conform to circuit requirements before energizing and connecting any services to it.
- C. The Contractor shall use great caution in the removal and transportation of transformers, placing the transformers in provided oil containment bags as necessary, and returning them to the assigned area.
- D. The Contractor shall keep accurate records of all equipment being installed or removed. The data shall include all pertinent data, such as address, location number, size, facility identification number, manufacturer, and serial number.
- E. The Contractor shall test and record secondary voltage before connecting customer load. Phase rotation shall be checked, verified, and recorded where applicable. The Contractor will notify the District of any abnormal voltage measurements.
- F. All transformers, switches, and miscellaneous equipment or devices shall be returned to the District at designated locations and segregated by type.

**PRIMARY CABLE**

- A. The types of primary cable to be installed are both 15kV strand filled non- strand filled ethylene propylene rubber (EPR) insulated cable with jacketed concentric neutral.
- B. Standard cable length per reel are:

15kV, 1 conductor, 1/0 AWG Compressed Aluminum Strand Filled conductor, 220 mil EPR insulation, with 1/3 neutral copper concentric conductor	4000 ft.
15kV, 1 conductor, 500 kcmil Compressed Aluminum Strand Filled conductor, 220 mil EPR insulation, with 1/3 neutral copper concentric conductor	2000 ft.
15kV, 1 conductor, 750 kcmil Compressed Aluminum Strand Filled conductor, 220 mil EPR insulation, with 1/3 neutral concentric copper	2000 ft.

- C. Largest reel size for primary cable has the following dimensions:
  - a. Maximum Flange Diameter - 78"
  - b. Maximum Overall Width - 54"

- c. Minimum Drum Diameter - 36"

### **SPLICES AND TERMINATIONS**

- A. All materials shall be installed per manufacturer's directions and in conformance with good industry practice.
- B. Splices in manholes shall be located midway between cable racks on walls of manholes, and supported with cable arms at approximately the same elevation as the enclosing duct.
- C. Load-break terminations for indoor and outdoor use:
  - a. Elbow-type unit with test point and 200-A load make/break and continuous-current rating.
- D. Dead-break terminations for indoor and outdoor use:
  - a. Elbow-type unit with test point and 600-A continuous-current rating.

### **HANDLING REELS AND EQUIPMENT**

- A. The Contractor shall inspect each reel upon receipt to determine whether or not visible damage has occurred during transit and/or storage.
- B. Loading and Unloading
  - a. Reels and equipment shall be handled in such a manner as to prevent smashing, nicking, cutting or other damage to the cable. When unloading reels from trucks, reels shall not be dropped to the ground or allowed to roll freely down ramps. Cranes or other equipment of adequate capacity shall be utilized and care shall be taken to avoid damage to the equipment, cable, or reels.
- C. Final Inspection
  - a. After removing lagging or other protective coverings from reels, Contractor shall examine outside layer of each reel to ensure that the cable is undamaged and that no nails, staples, or other sharp objects, which would damage the cable during unreeling protrude on the inside of the reel heads.
- D. The Contractor shall return all reels to the District upon completion of the work.

### **CABLE INSTALLATION**

- A. All cable installation shall be installed per manufacturer's directions and in conformance with good industry practice. A sufficient number of trained personnel and equipment shall be assigned to ensure the proper care and installation of the cable.
- B. Cable must be installed by accepted construction practices and according to manufacturer recommendations.
- C. The sizes of the cable to be installed will be specified on the drawing(s).
- D. Sufficient length of cable shall be left in primary vaults and secondary splice boxes for training and connections such that at least 1 loop of cable is in place after terminations and connections are performed in primary vaults, and sufficient excess secondary cable is in place to bring the secondary connections to ground level for future service installations.

- E. Cable shall be installed in conduit above grade and duct bank below grade. All cable of a feeder shall be pulled simultaneously.
- F. Cable shall be pulled into ducts with equipment designed for this purpose, including power-driven winches, cable-feeding flexible tube guides, cable grips, pulling eyes, and lubricants.
- G. Cable reels shall be set up at the side of the manhole opening and above the duct or hatch level, allowing cable to enter through the opening without reverse bending. Flexible tube guides shall be installed through the opening in a manner that will prevent cable from rubbing on the edges of any structural member.
- H. Cable shall be pulled directly into the duct from the coil or reel on which they are received. Cable shall not be pulled off and laid on the ground prior to installation.
- I. Cable shall be unreeled from the top of the reel. Pay-out shall be carefully controlled.
- J. Cable to be pulled shall be attached through a swivel to the main pulling wire by means of a suitable cable grip and pulling eye. Woven-wire cable grips shall be used to grip the cable end when pulling small cable and short straight lengths of heavier cable.
- K. Pulling eyes shall be attached to the cable conductors to prevent damage to the cable structure.
- L. Cable shall be liberally coated with a District furnished lubricant as they enter the tube guide or duct. Rollers, sheaves, or tube guides around which the cable is pulled from, shall conform to the minimum bending radius of the cable.
- M. Cable shall be pulled into ducts at a reasonable speed. Cable pulling using a vehicle shall not be permitted. Pulling operations shall be stopped immediately at any indication of binding or obstruction and shall not be resumed until the potential for damage to the cable is corrected. Sufficient slack shall be provided for free movement of cable due to expansion or contraction.
- N. Splices in manholes shall be firmly supported on cable racks. No splices shall be pulled in ducts. Cable ends shall overlap at the ends of a section to provide sufficient undamaged cable for splicing.
- O. Cable cut in the field shall have the cut ends immediately sealed to prevent entrance of moisture. Cable ends shall be moisture proofed at all times until terminations are installed. Cable shall not be pulled with the ends open. Cable ends shall not be allowed to rest on the floor.
- P. Whenever possible, the pullout manhole should be rigged to facilitate pulling into the manhole adequate amount (20ft minimum) of cable for splicing and racking without the necessity of taking hitches on the cable sheath or jacket.
- Q. Any and all sections of cable that are damaged by the application of grips shall be discarded.

- R. The Contractor shall pay close attention to the cable footage markers and plan pulls to minimize the amount of short unusable cable lengths left on the reels.
- S. Cable location tags must be installed on cable outside of each duct indicating cable run destination. In each manhole and pull box, install permanent tags on each circuit's cable to clearly designate the circuit identification and voltage. Arrange tags such that they can be read without moving cable.
- T. Cable phasing marks (colored tapes) must be installed on both ends of each cable identifying phases.

**END OF SPECIFICATIONS**

## **SECTION 01060 - REGULATORY REQUIREMENT**

### **PART 1 – GENERAL**

#### **Summary**

##### *Section Includes*

- Standards
- Laws, Regulations, and Codes
- Licenses
- Responsibility of CONTRACTOR
- CONTRACTOR's Registration and License

#### **STANDARDS**

*Conform all material, equipment and services furnished to the accepted standards and practices of the electric utility industry, and the codes and standards listed in Section 01090 – Reference Standards.*

#### **LAWS, REGULATIONS, AND CODES**

*Perform and construct Work in accordance with all federal, state and local laws, regulations and codes, including those regulating the environment.*

#### **LICENSES**

*Obtain and pay for all licenses. Provide CONTRACTOR's license number to DISTRICT.*

*The CONTRACTOR shall obtain permits required for the execution of the WORK in accordance with the Contract Documents. Copies of these permits shall be furnished to the DISTRICT.*

#### **PERMITS OBTAINED BY THE DISTRICT**

*None. The CONTRACTOR is referred to Section 01560 – Temporary Environmental Controls for more discussion of the SWPPP.*

#### **RESPONSIBILITY OF CONTRACTOR**

*CONTRACTOR is responsible for, and shall obtain and pay for, all construction permits such as fire protection, and additional licenses and permits not indicated as being obtained by the DISTRICT.*

*Pay all government charges and inspection fees necessary for prosecution of Work, which are applicable at the time of opening of Bids.*

*Give all notices and comply with all laws, ordinances, building and construction codes, rules and regulations applicable to Work.*

*If CONTRACTOR observes that Drawings or Technical Specifications are at variance therewith, give DISTRICT and DISTRICT prompt notice thereof, and any necessary changes shall be adjusted by appropriate modification.*

If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to such laws, ordinances, rules and regulations, and without such notice to DISTRICT and DISTRICT, CONTRACTOR shall bear all costs arising therefrom.

It shall NOT be CONTRACTOR'S primary responsibility to make certain that Drawings and Technical Specifications are in accordance with such laws, ordinances, rules and regulations.

**-END OF SECTION**

## SECTION 01070 - ABBREVIATIONS OF INSTITUTIONS

### PART 1 -- GENERAL

#### 1.1 GENERAL

- A. Wherever in the Contract Documents references are made to the standards, specifications, or other published data of the various international, national, regional, or local organizations, such organizations may be referred to by their acronym or abbreviation only. As a guide to the reader, the following acronyms or abbreviations which may appear in the Contract Documents shall have the meanings indicated herein.

#### 1.2 ABBREVIATIONS

AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AFBMA	Anti-Friction Bearing Manufacturer's Association, Inc.
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AI	The Asphalt Institute
AIA	American Institute of Architects
AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ANSI	American National Standards Institute
APA	American Plywood Association
API	American Petroleum Institute
APWA	American Public Works Association
ASABE	American Society of Agricultural and Biological Engineers
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers
ASLE	American Society of Lubricating Engineers
ASME	American Society of Mechanical Engineers
ASQC	American Society for Quality Control
ASSE	American Society of Sanitary Engineers
ASTM	American Society for Testing and Materials
AWPA	American Wood Preservers Association
AWPI	American Wood Preservers Institute

AWS	American Welding Society
AWWA	American Water Works Association
BHMA	Builders Hardware Manufacturer's Association
CBM	Certified Ballast Manufacturers
CEMA	Conveyors Equipment Manufacturer's Association
CFR	Code of Federal Regulations
CGA	Compressed Gas Association
CLFMI	Chain Link Fence Manufacturer's Institute
CMA	Concrete Masonry Association
CRSI	Concrete Reinforcing Steel Institute
EIA	Electronic Industries Association
ETL	Electrical Test Laboratories
EPA	Environmental Protection Agency
FM	Factory Mutual System
FPL	Forest Products Laboratory
HI	Hydraulic Institute
IAPMO	International Association of Plumbing and Mechanical Officials
ICBO	International Conference of Building Officials
ICEA	Insulated Power Cable Engineers Association
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
ISA	Instrument Society of America
ISO	Insurance Services Office
ISO	International Organization for Standardization
MBMA	Metal Building Manufacturer's Association
MPTA	Mechanical Power Transmission Association
MSS	Manufacturers Standardization Society
MTI	Marine Testing Institute
NAAMM	National Association of Architectural Metal Manufacturer's
NACE	National Association of Corrosion Engineers
NBS	National Bureau of Standards
NCCLS	National Committee for Clinical Laboratory Standards
NEC	National Electrical Code
NESC	National Electrical Safety Code
NEMA	National Electrical Manufacturer's Association
NFPA	National Fire Protection Association
NFPA	National Forest Products Association
NLGI	National Lubricating Grease Institute
NSF	National Sanitation Foundation

NWMA	National Woodwork Manufacturers Association
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association
PPI	Plastics Pipe Institute
RCRA	Resource Conservation and Recovery Act
RWMA	Resistance Welder Manufacturer's Association
RWQCB	Regional Water Quality Control Board
SAE	Society of Automotive Engineers
SDWA	Safe Drinking Water Act
SMA	Screen Manufacturers Association
SMACCNA	Sheet Metal and Air Conditioning Contractors National Association
SPI	Society of the Plastics Industry, Inc.
SSPC	Steel Structures Painting Council
SSPWC	Standard Specifications for Public Works Construction
SWPPP	Stormwater Pollution Prevention Plan
SWQCB	State Water Quality Control Board
UBC	Uniform Building Code
UL	Underwriters Laboratories, Inc.
WCLIB	West Coast Lumber Inspection Bureau
WCRSI	Western Concrete Reinforcing Steel Institute
WEF	Water Environment Federation
WIC	Woodwork Institute of California
WRI	Wire Reinforcement Institute, Inc.
WWPA	Western Wood Products Association

**PART 2 -- PRODUCTS (Not Used)**

**PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## SECTION 01090 - REFERENCE STANDARDS

### PART 1 -- GENERAL

#### 1.1 GENERAL

- A. **Titles of Sections and Paragraphs:** Captions accompanying specification sections and paragraphs are for convenience of reference only, and do not form a part of the Specifications.
- B. **Applicable Publications:** Whenever in these Specifications references are made to published specifications, codes, standards, or other requirements, it shall be understood that wherever no date is specified, only the latest specifications, standards, or requirements of the respective issuing agencies which have been published as of the date that the Work is advertised for bids, shall apply; except to the extent that said standards or requirements may be in conflict with applicable laws, ordinances, or governing codes. No requirements set forth herein or shown on the Contract Documents shall be waived because of any provision of, or omission from, said standards or requirements.
- C. **Specialists and Assignments:** In certain instances, specification text requires (or implies) that specific WORK is to be assigned to specialists or expert entities, who must be engaged for the performance of that WORK. Such assignments shall be recognized as special requirements over which the CONTRACTOR has no choice or option. These requirements shall not be interpreted so as to conflict with the enforcement of building codes and similar regulations governing the WORK; also they are not intended to interfere with local union jurisdiction settlements and similar conventions. Such assignments are intended to establish which party or entity involved in a specific unit of work is recognized as "expert" for the indicated construction processes or operations. Nevertheless, the final responsibility for fulfillment of the entire set of contract requirements remains with the CONTRACTOR.

#### 1.2 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

- A. Without limiting the generality of other requirements of the Specifications, all WORK specified herein shall conform to or exceed the requirements of applicable codes and the applicable requirements of the following documents.
- B. References herein to "Building Code" or "California Building Code" shall mean California Building Code as adopted from the International Building Code of the International Code Council (ICC). Similarly, references to "Mechanical Code" or "Uniform Mechanical Code," "Plumbing Code" or "Uniform Plumbing Code," "Fire Code" or "Uniform Fire Code," shall mean Uniform Mechanical Code, Uniform Plumbing Code and Uniform Fire Code of the International Conference of the Building Officials (ICBO). "Electric Code" or "National Electrical Code (NEC)" shall mean the National Electrical Code of the National Fire Protection Association (NFPA). The latest edition of the codes as approved by the Municipal Code and used by the local agency as of the date that the Work is advertised for bids, as adopted by the agency having jurisdiction, shall apply to the Work herein, including all addenda, modifications, amendments, or other lawful changes thereto.
- C. In case of conflict between codes, reference standards, drawings and the other Contract Documents, the most stringent requirements shall govern. All conflicts shall be brought to the attention of the DISTRICT for clarification and direction prior to ordering or providing any materials or furnishing labor. The CONTRACTOR shall bid for the most stringent requirements.

- D. The CONTRACTOR shall construct the Work indicated herein in accordance with the requirements of the Contract Documents and the referenced portions of those referenced codes, standards, and specifications listed herein.
  - E. **Applicable Standard Specifications:** References in the Contract Documents to the "Standard Specifications" shall mean the "Standard Specifications. State of California, Department of Transportation" latest edition at time of Bid preparation. Only those portions of the "Standard Specifications" specifically identified and referred to shall apply. Portions of the "Standard Specifications" not specifically referenced shall not be considered part of the Contract Documents.
  - F. References herein to "OSHA Regulations for Construction" shall mean Title 29, Part 1926, Construction Safety and Health Regulations, Code of Federal Regulations (OSHA), including all changes and amendments thereto.
  - G. References herein to "OSHA Standards" shall mean Title 29, Part 1910, Occupational Safety and Health Standards, Code of Federal Regulations (OSHA), including all changes and amendments thereto.
- 1.3 REGULATIONS RELATED TO HAZARDOUS MATERIALS
- A. The CONTRACTOR is responsible that all work included in the Contract Documents, regardless if shown or not, shall comply with all EPA, OSHA, RCRA, NFPA, and any other Federal, State, and Local Regulations governing the storage and conveyance of hazardous materials, including petroleum products.
  - B. Where no specific regulations exist, all chemical, hazardous, and petroleum product piping and storage in underground locations must be installed with double containment piping and tanks, or in separate concrete trenches and vaults, or with an approved lining which cannot be penetrated by the chemicals, unless waived in writing by the DISTRICT.
- 1.4 TOWN OF TRUCKEE STANDARDS
- A. While conducting Work within any Town of Truckee right-of-way, the CONTRACTOR shall have on-site at all times, a current copy of ***Town of Truckee Public Improvement and Engineering Standards***. In the event of a conflict between the Town Standards and these Contract Documents, the DISTRICT shall be notified immediately upon its discovery. The DISTRICT shall consult with the Town and the CONTRACTOR shall be directed by the DISTRICT as to which requirement shall govern.
  - B. The authority of the Town to order changes to the Work is expressly limited to issues of traffic control and public safety **ONLY** (See Section 01540 – Traffic Control). Any other changes requested by the Town, such as changes in materials, alignment or working methods shall be referred to the DISTRICT. Any changes to the Work made by the CONTRACTOR, without direction by the DISTRICT, shall be subject to removal and reinstallation at no additional cost to the DISTRICT.
  - C. Copies of the ***Town of Truckee Public Improvement and Engineering Standards*** may be obtained directly from the Town of Truckee at 530-582-7700 or downloaded via the Internet at: <http://www.townoftruckee.com>.

- END OF SECTION-

## **SECTION 01140 - OUTAGE COORDINATION AND SWITCHING**

### **1.01 General**

The Contractor shall coordinate all Work requiring de-energization, switching, or service interruption with the District. No lines, equipment, or facilities shall be de-energized, re-energized, or otherwise operated by the Contractor without the express direction and approval of the District.

All switching operations shall be performed by District personnel unless otherwise authorized in writing by the District.

Every reasonable effort shall be made to perform the Work on or near energized facilities when such work can be performed safely, efficiently, and in accordance with applicable safety regulations, District policies, and accepted utility practices. The determination of whether work may be performed energized shall be at the sole discretion of the District.

### **1.02 Outage Requests**

A. The Contractor shall submit written outage requests to the District a minimum of ten (10) working days in advance of the requested outage date, unless otherwise approved by the District.

B. Each outage request shall include:

- Location and circuit identification.
- Description of work to be performed.
- Estimated duration of the outage.
- Number of personnel and equipment required.
- Proposed switching plan, if applicable.

C. The District reserves the right to:

- Approve, deny, or reschedule any outage.
- Limit outage durations.
- Require night or off-peak work.

No claims for additional compensation shall be allowed due to outage rescheduling unless expressly provided for in the Contract Documents.

### **1.03 Service Continuity**

- A. The Contractor shall perform the Work in a manner that minimizes customer outages and service interruptions.
- B. Temporary facilities, transfers, or other measures required to maintain service continuity shall be considered incidental to the Work unless otherwise specified.

### **1.04 Emergency Conditions**

The District may suspend or cancel any scheduled outage due to system emergencies, weather events, or operational needs. The Contractor shall immediately comply with such direction.

No additional compensation shall be due for delays caused by emergency outage cancellations, except as otherwise provided in the Contract.

### **1.05 Work Near Energized Facilities**

- All work near energized facilities shall comply with:
- Applicable OSHA regulations
- State and federal safety requirements
- District safety rules and clearances

The Contractor shall be solely responsible for maintaining minimum approach distances and safe work practices.

**-End of Section-**

## **SECTION 01150 - WILDFIRE PREVENTION AND FIRE SAFETY**

### **1.01 General**

The Contractor shall perform all Work in a manner that prevents the ignition of wildfires and minimizes fire risk. The Contractor shall comply with all applicable federal, state, and local fire prevention regulations, including Public Resources Code Sections 4292 and 4293.

### **1.02 Fire Prevention Measures**

At a minimum, the Contractor shall:

- A. Maintain fire extinguishers on all vehicles and equipment in accordance with applicable codes.
  - Maintain at least one (1) fully charged fire extinguisher:
  - Minimum 10-lb ABC type
  - On each piece of motorized equipment
  
- B. Provide fire watch personnel when performing:
  - Cutting
  - Grinding
  - Welding
  - Any activity capable of producing sparks
  - Any energized line work or work performed in proximity to energized electrical facilities
  
- C. Maintain hand tools, including:
  - Shovels
  - Pulaski's or McLeods
  - Water containers
  - At all active work locations.

### **1.03 Equipment Requirements**

- A. All internal combustion equipment shall:
  - Be equipped with approved spark arrestors.
  - Be maintained in proper working condition.
  - Be inspected daily for fuel, oil, or hydraulic leaks.
  
- B. Equipment found to be in unsafe condition shall be removed from service immediately.

### **1.04 Red Flag and High Fire Danger Conditions**

A. The District may suspend or restrict work during:

- Red Flag Warnings
- High fire danger periods
- Extreme weather events

B. The Contractor shall comply immediately with all District directives regarding work restrictions.

C. No additional compensation shall be allowed for delays caused by fire weather restrictions unless expressly provided for in the Contract.

### **1.05 Fire Response**

In the event of a fire caused or suspected to be caused by the Contractor's operations:

A. The Contractor shall:

- Immediately cease work.
- Initiate fire suppression efforts if safe to do so.
- Notify emergency services.
- Notify the District immediately.

B. The Contractor shall be responsible for all damages, claims, and costs resulting from fires caused by its operations, to the extent permitted by law.

**-End of Section-**

## SECTION 01300 - SUBMITTALS

### PART 1 -- GENERAL

#### 1.1 GENERAL

- A. CONTRACTOR "Submittals" may be Shop Drawings, schedules, surveys, reports, samples, plans, lists, drawings, documents, findings, programs, manuals, data, or any other item or information required by the Contract Documents to be submitted or offered by the CONTRACTOR in accomplishing the Work.
- B. Wherever submittals are required hereunder, all such documents shall be furnished to the DISTRICT.
- C. The CONTRACTOR is responsible for the accuracy, completeness, and coordination of all Submittals. The CONTRACTOR shall not delegate this responsibility in whole or in part to any Subcontractor. Submittals may be prepared by the CONTRACTOR, Subcontractors or Suppliers, but the CONTRACTOR shall verify that each Submittal meets the requirements of the Contract Documents. Verify that there are no conflicts between Submittals and notify the DISTRICT in each case where a Submittal may affect the work of another contractor or the DISTRICT. The CONTRACTOR shall ensure coordination of Submittals of related crafts and Subcontractors.

#### 1.2 PRECONSTRUCTION CONFERENCE SUBMITTALS

- A. Prior to the preconstruction conference referred to in Section 01010 - Summary of Work, submit the following items for review:
  - 1. A preliminary schedule of Shop Drawings, Samples, and proposed Substitute ("Or-Equal") Submittals listed in the Bid.
  - 2. A list of all permits and licenses the CONTRACTOR shall obtain indicating the agency required to grant the permit, the expected date of submittal for the permit, and required date for receipt of the permit.
  - 3. The names and qualifications of Designated Safety Representative And Designated Competent Persons.
  - 4. Preliminary Progress Schedule in accordance with Section 01310 - Construction Schedule.

#### 1.3 PROGRESS REPORTS

- A. The CONTRACTOR shall furnish a progress report to DISTRICT with each Application for Payment. If the WORK falls behind schedule, submit additional progress reports at such intervals as DISTRICT may request.
- B. Each progress report shall include sufficient narrative to describe any current and anticipated delaying factors, effect on the construction schedule, and proposed corrective actions. Any WORK reported complete, but which is not readily apparent to DISTRICT, must be substantiated with satisfactory evidence.

- C. Each progress report shall include a list of the activities completed with their actual start and completion dates, a list of the activities currently in progress, and the number of Working days required to complete each.

#### 1.4 SHOP DRAWINGS

- A. Wherever called for in the Contract Documents, or where required by the DISTRICT, furnish for review one copy of each Shop Drawing Submittal. Submittals shall be transmitted electronically in PDF format. The term "Shop Drawings" as used herein shall be understood to include detail design calculations, shop drawings, fabrication, and installation drawings, erection drawings, lists, graphs, catalog sheets, data sheets, and similar items. Whenever the CONTRACTOR is required to submit design calculations as part of a Submittal, such calculations shall bear the signature and seal of a professional engineer registered in the appropriate branch in California unless otherwise directed.
- B. All Shop Drawing Submittals shall be accompanied by a Submittal transmittal form acceptable to the DISTRICT. The form shall indicate the Contract/Project and all specification references necessary to clearly denote which Contract requirements are being satisfied by the Submittal. Any Submittal not accompanied by such a form, or where all applicable items on the form are not completed, will be returned for resubmittal.
- C. Normally, a single Shop Drawing Submittal shall be used for each technical specification section or item or class of material or equipment for which a Submittal is required. A single Submittal covering multiple sections will not be acceptable, unless the primary specification references other sections for components. Example: If a pump section references other sections for the motor, protective coating, anchor bolts, local control panel, and variable frequency drive, a single submittal would be accepted. However, a single Submittal covering vertical turbine pumps and horizontal split case pumps would not be acceptable.
- D. On the transmittal form, index the components of the Submittal and insert tabs in the Submittal to match the components. Relate the Submittal components to Specification paragraph and subparagraph, Drawing number, detail number, schedule title, or room number or building name, as applicable.
- E. Unless indicated otherwise, terminology and equipment names and numbers used in Submittals shall match the Contract Documents.
- F. Format:
  - 1. Minimum sheet size shall be 8.5 inches by 11 inches. Maximum sheet size shall be 24 inches by 36 inches. Every page in a Submittal shall be numbered in sequence. Each copy of a Submittal shall be collated and stapled or bound, as appropriate. The DISTRICT will not collate copies.
  - 2. Where product data from a manufacturer is submitted, clearly mark which model is proposed, with all pertinent data, capacities, dimensions, clearances, diagrams, controls, connections, anchorage, and supports. Sufficient level of detail shall be presented for assessment of compliance with the Contract Documents.
  - 3. Each Submittal shall be assigned a unique number. Submittals shall be numbered sequentially. The Submittal numbers shall be clearly noted on the transmittal. Original Submittals shall be assigned a numeric Submittal number. Resubmittals shall bear an alpha-numeric system which consists of the number assigned to the original Submittal for that item followed by a letter of the alphabet to represent that it is a subsequent Submittal of the original. For example, if Submittal 25 requires a

resubmittal, the first resubmittal will bear the designation "25-A" and the second resubmittal will bear the designation "25-B" and so on.

- G. Disorganized Submittals which do not meet the requirements above will be returned without review.
- H. Except as may otherwise be indicated herein, the DISTRICT will return its review comments to the CONTRACTOR, within seven calendar days following their receipt. For resubmittal of Submittals, the DISTRICT will be allowed the same review period as for the original Submittal. It is considered reasonable that the CONTRACTOR shall make a complete and acceptable Submittal to the DISTRICT by the second submission of a Submittal item. The DISTRICT reserves the right to withhold monies due to the CONTRACTOR to cover additional costs of the review beyond the second Submittal.
- I. If a Submittal is returned to the CONTRACTOR marked "NO EXCEPTIONS," formal revision and resubmission of said Submittal will not be required.
- J. If a Submittal is returned to the CONTRACTOR marked "MAKE CORRECTIONS NOTED," formal revision and resubmission of said Submittal will not be required.
- K. If a Submittal is returned to the CONTRACTOR marked "AMEND & RESUBMIT," revise said Submittal and resubmit. Resubmittal of portions of multi-page documents or multi-drawing documents will not be allowed. For example, if a Shop Drawing Submittal that consists of ten drawings contains only one drawing that needs to be amended and resubmitted, the Submittal as a whole is deemed as "AMEND & RESUBMIT", and all ten drawings of the Submittal would be required to be resubmitted.
- L. If a Submittal is returned to the CONTRACTOR marked "REJECTED," revise said Submittal and resubmit the required number of copies. Resubmittal of portions of multi-page documents or multi-drawing documents will not be allowed. For example, if a Shop Drawing Submittal that consists of ten drawings contains only one drawing that is rejected and needs to be resubmitted, the Submittal as a whole is deemed as "REJECTED", and all ten drawings of the Submittal would be required to be resubmitted.
- M. Any changes made on a resubmittal, other than those made or requested by the DISTRICT, shall be identified and flagged on the resubmittal.
- N. Fabrication of an item shall be commenced only after the DISTRICT has reviewed the pertinent submittals and has returned copies to the CONTRACTOR marked either "NO EXCEPTIONS" or "MAKE CORRECTIONS NOTED." Corrections indicated on Submittals shall be considered as changes necessary to meet the requirements of the Contract Documents and shall not be taken as the basis for changes to the Contract requirements.
- O. All Shop Drawing Submittals shall be carefully reviewed by an authorized representative of the CONTRACTOR, prior to submission. Each Submittal shall be dated, signed with the following: "I have verified that the equipment or material in this Submittal meets all the requirements specified or shown in the Contract Documents without exception." In the case of Shop Drawings, each sheet shall be so dated, signed, and certified. No consideration for review of any Submittals will be made for any items which have not been so certified. All non-certified Submittals will be returned without action taken, and any delays caused thereby shall be the total responsibility of the CONTRACTOR. Submittals which the CONTRACTOR wishes to have reviewed that cannot bear this certification because they include an exception or deviation to the Contract Documents shall be submitted in accordance with Section 01600 - Products, Materials, Equipment, and Substitutions.
- P. The DISTRICT's review of Shop Drawing Submittals shall not relieve the CONTRACTOR of the entire responsibility for the correctness of details and dimensions and for

compliance with the Contract Documents. The CONTRACTOR shall assume all responsibility and risk for any misfits due to any errors in Submittals. The CONTRACTOR shall be responsible for the dimensions and the design of adequate connections and details.

- Q. No changes in the Contract Times will be considered for schedule delays resulting from non-compliant Submittals.
- R. Within 30 days of the Notice to Proceed, the CONTRACTOR shall submit a complete list of anticipated Submittals which includes Specification and Drawing references.
- S. If the CONTRACTOR submits an incomplete Submittal, the Submittal may be returned without review. A complete Submittal shall contain sufficient data to demonstrate that the items contained therein comply with the Contract Documents, meet the minimum requirements for Submittals as described in the Contract Documents, and include all corrections as required from previous Submittals.

#### 1.5 CONTRACTOR'S SCHEDULE

- A. The CONTRACTOR'S construction schedules and reports shall be prepared and submitted to the DISTRICT in accordance with the provisions of Section 01310 - Progress Schedule.

#### 1.6 SAMPLES

- A. Whenever in the Specifications samples are required, submit not less than three samples of each item or material for acceptance, at no additional cost to the DISTRICT.
- B. Samples, as required herein, shall be submitted for acceptance a minimum of 21 days prior to ordering such material for delivery to the jobsite, and shall be submitted in an orderly sequence so that dependent materials or equipment can be assembled and reviewed without causing delays in the WORK.
- C. All samples shall be individually and indelibly labeled or tagged, indicating thereon all specified physical characteristics and Manufacturer's name for identification. Upon receiving acceptance of the DISTRICT, one set of the samples will be stamped and dated and returned to the CONTRACTOR, and two sets of samples will be retained, and one set of samples shall remain at the job site until completion of the Work.
- D. Unless indicated otherwise, all colors and textures of specified items presented in sample submittals shall be from the manufacturer's standard colors and standard materials, products, or equipment lines. If the samples represent non-standard colors, materials, products, or equipment lines and their selection will require an increase in contract time or price, clearly indicate same on the transmittal page of the submittal.

#### 1.7 SURVEY DATA

- A. The CONTRACTOR shall make available for examination throughout the construction period all field books, notes, and other data developed by CONTRACTOR in performing the surveys required by the WORK and submit all such data to DISTRICT with documentation required for final acceptance of the WORK.

#### 1.8 OPERATIONS AND MAINTENANCE MANUAL

- A. The preparation and submission of Operations and Maintenance Manuals is not included in the WORK or this Contract.

1.9 RECORD DRAWINGS

- A. The CONTRACTOR shall prepare Record Drawings as required in Section 01305 – Record Drawings.

**-END OF SECTION-**

## **SECTION 01310 - CONSTRUCTION PROGRESS SCHEDULE**

### **PART 1 -- GENERAL**

#### **1.1 REQUIREMENTS OVERVIEW**

- A. The CONTRACTOR'S planning, scheduling and execution of the WORK shall be presented to the DISTRICT by submission of the schedule information and data indicated in this Section.
- B. In preparing all schedules, it is the responsibility of the CONTRACTOR to work with each Subcontractor and Supplier to obtain information pertinent to the planning and updating of their respective activities and schedules.
- C. Coordinate with the DISTRICT all construction Work requiring outages to substation, distribution or service equipment. All scheduled outages require a minimum of 48 hours advance notice.

### **PART 2 -- PRODUCTS**

#### **2.1 GENERAL CRITERIA**

- A. The Progress Schedule shall reflect the CONTRACTOR's plans for and status of the WORK.
- B. The Progress Schedule shall show the breakdown of work into activities and relationships only to the extent required to effectively manage the WORK. The Schedule shall show the division of the WORK into activities and specify the progression from the Notice To Proceed to the end of the Contract Times. The Preliminary Progress Schedule shall include appropriate time allowances and constraints for submittals, items of interface with work performed by others, and construction, start-up, and performance tests.
- C. The CONTRACTOR's Progress Schedule shall include all procurement related activities that lead to delivery of permanent materials to the Site in a timely manner. The procurement activities shall indicate significant events in the procurement process such as issuance of purchase orders and subcontracts, submittal of shop drawings, review and approval of shop drawings, release for fabrication, release for shipment, delivery dates for major materials and equipment, etc., as appropriate.
- D. The CONTRACTOR shall schedule those required duties and responsibilities of the DISTRICT within the Contract Times. The Progress Schedule shall incorporate activities and sequences based on the information given in the Contract Documents, and if not given, as indicated by the DISTRICT in writing.
- E. The Preliminary Progress Schedule shall identify the start and completion dates for work activities for which the CONTRACTOR is entitled to payment.
- F. The Progress Schedule shall be in a precedence diagram format, shall be plotted on a time-scaled calendar, and shall identify the Contract Times, milestones, the critical path(s), and all activities. Activities shall be shown on their early dates, with their total float noted

beside them. Connections between activities, whether on the same sheet or on different sheets, shall identify both the predecessor and successor work.

## 2.2 SCHEDULE SUBMITTAL

- A. The CONTRACTOR shall produce a Preliminary Progress Schedule submittal that will be an accurate representation of the proposed means and methods for accomplishing the WORK. This schedule will show all logical relationships and constraints between activities. This schedule shall be available for discussion at the Preconstruction Conference described in Section 01010 – Summary of Work.

## 2.3 PROGRESS REPORTS

- A. The CONTRACTOR shall submit at the DISTRICTS request, a report indicating the cumulative cost totals for the WORK. The report shall be in format developed by the CONTRACTOR and reviewed by the DISTRICT.

## **PART 3 -- EXECUTION**

### 3.1 SCHEDULE UPDATES

- A. The CONTRACTOR shall keep the Progress Schedule current and shall update it on a weekly basis. A copy of the current progress schedule shall be made available to the DISTRICT upon request.
- B. A copy of the updated Progress Schedule shall be submitted with each request for payment

**- END OF SECTION**

## SECTION 01350 - HEALTH AND SAFETY

### PART 1 – GENERAL

#### 1. Summary

##### *Section Includes*

Requirements for compliance with health and safety precautions and controls

##### *Related Requirements*

Section 01300 – Submittals

#### 2. Measurement and Payment

*C. Except as otherwise provided herein, all costs incurred by the CONTRACTOR in complying with requirements of this section of the Technical Specifications shall be included in the Lump Sum Bid listed in the Bid Form.*

#### 3. Submittals

*Submit in accordance with Section 01300 – Submittals*

##### *Health and Safety Plan (Plan)*

Within Five (5) days after receipt of Notice to Proceed, the CONTRACTOR shall submit a Work site-specific Health and Safety Plan addressing health and safety management methods specific to the Project. The Plan shall, at a minimum, include:

- A. The name of the individual at the Work site responsible for implementation and compliance with this Plan
- B. The name and qualifications of any electrical safety observer to be provided by the CONTRACTOR.
- C. Protection of the public, DISTRICT and DISTRICT employees
- D. A description of tasks to be undertaken, and equipment mobilized for this Project
- E. A list of all known safety or health hazards, problems, and proposed control mechanisms
- F. Material Safety Data Sheets (MSDSs) and procedures for using, disposing of, or storing all chemicals, products, or regulated to be used by the CONTRACTOR
- G. A list of personal protective equipment, monitoring devices, and hazard-specific plans or permits as appropriate and required by State and Federal regulations
- H. A description of emergency response measures, equipment available for emergency response to address accidents and releases of materials, including, but not limited to, first

aid, eye wash/showers, and fire extinguishing equipment, and location of this equipment at the Work site

- I. Emergency phone numbers contacts, and location of the nearest medical facility
- J. A monitoring and inspection plan and record keeping measures to ensure that equipment and work practices comply with this plan
- K. Personnel names, training and notification procedures as appropriate to ensure that all Work site personnel are familiar with the plan elements. Include copies of training certificates
- L. Procedures for safe storage and handling of flammable liquids
- M. If applicable the CONTRACTOR shall include procedures for safe storage and handling of compressed gasses.
- N. Other issues which the CONTRACTOR determines are appropriate and necessary to protect worker safety and health, or required by local, state, or federal regulation.

#### **4. FIRE SAFETY RULES**

*The fire safety rules include but are not limited to the following:*

*Fire Equipment: Within CONTRACTOR's work areas, extinguishers of approved types shall be provided by CONTRACTOR. CONTRACTOR's shanties and equipment, such as trucks, motor cranes, cats, etc., must be individually equipped with the proper fire extinguishers by CONTRACTOR. Fire equipment provided by CONTRACTOR is expected to be maintained in proper operating condition at all times.*

*Flammable Liquids: Handling of all liquids having a flash point below 140 degrees Fahrenheit on the job site will normally require the use of properly identified safety cans. Bulk storage in tanks, drums or other containers will be in a manner acceptable to the DISTRICT. Combustible solvents used for cleaning purposes will be required to have a minimum flash point of 100 degrees Fahrenheit.*

*Refueling of gasoline or diesel driven mobile equipment in enclosed areas is prohibited. Precautions to be followed when refueling fixed or semi-fixed equipment such as compressors, pumps, welding generators, etc., will be established. Equipment having an attached fuel tank will not be refueled while the engine is running.*

*Cutting and Welding: Operations involving the use of a torch or welding equipment require the issuance or either a permanent or temporary permit which will specify the special precautions to be observed for the particular job involved. Fire watchers may be required.*

*Heating Devices: All heating devices must be an approved type. Solid fuel devices are not permitted in enclosed areas. The preferred fuel source is a propane tank to be stored outdoors. All such equipment shall be installed and used in a safe manner. Temporary space heaters shall be supervised by a competent employee when in use. Refueling of portable space heaters shall be done in a safe location and not while the unit is in operation.*

*Compressed Gasses: Containers of compressed gasses in use on the site shall be installed in an approved manner. They shall be properly supported to prevent upset. Charged containers not in use shall have safety caps in place. Storage of bulk quantities of gasses shall be in an approved manner. Unloading of gas cylinders by dropping from a truck bed is prohibited.*

Electrical: All electrical installations will be in accordance with the requirements of the National Electrical Code and the National Electrical Safety Code. Only UL approved equipment and devices will be used. Particular care is necessary in protecting and supporting temporary light and power wiring. Lighting units shall be properly guarded against mechanical damage where necessary. Portable cables for welding sets, power tools, lights, etc., shall be maintained in good condition and protected against pedestrian or vehicle damage insofar as possible.

Scaffolding and Forms: Scaffolding and forms may be required to be non-combustible or of approved pressure impregnated wood construction.

Tarpaulins: Only approved flame-proofed tarpaulins shall be used on the Site. Plastic drop cloths shall be of an approved slow burning type.

Smoking: Only approved flame-proofed tarpaulins shall be used on the Site. Plastic drop cloths shall be of an approved slow burning type.

Smoking: Smoking is allowed in safe areas as designated by CONTRACTOR, and may change as needed dependent upon Site activity. Cigarette butts shall not be discarded on the ground. All areas shall be kept clean of cigarette butts.

Material Storage: Storage of combustible building materials or materials with combustible packaging will be arranged as to offer a minimum exposure to permanent construction. Combustible storage in areas where hazardous operations such as welding and cutting are being conducted is prohibited.

Housekeeping: Combustible scrap, debris, packing materials, etc., must be removed to designated collection points at appropriate intervals to prevent accumulation in work or storage areas. Burning of such materials is prohibited. Containers which have been used for combustible liquids shall be kept separate and not mixed with other combustible refuse.

General: CONTRACTOR and Subcontractors are expected to be alert to the hazards of fire. Special cases not covered by these procedures or exceptions will be referred to the DISTRICT for instructions.

## **5. Quality Assurance**

The CONTRACTOR shall meet all requirements of CalOSHA, federal, and local regulations.

## **6. ACCIDENT REPORTING**

Serious accidents such as those resulting in treatment of an injury at a medical facility, response to the site by emergency medical personnel or damage to property other than that of the CONTRACTOR shall be reported to the DISTRICT and DISTRICT within twenty-four (24) hours of the occurrence.

A copy of each accident report, which the CONTRACTOR or Subcontractor(s) have submitted to their insurance carriers, shall be forwarded to the DISTRICT as soon as possible, but in no event later than seven (7) calendar days after the accident occurred.

## **7. HEALTH AND SAFETY REPRESENTATIVE**

The CONTRACTOR shall designate a Health and Safety Representative and shall ensure that each Subcontractor designates a Subcontractor's Health and Safety Representative. The Health and Safety Representative shall be capable of identifying all hazards and have the authority to stop Work and take immediate action to correct the hazard.

*The CONTRACTOR shall authorize each such Health and Safety Representative to resolve safety-related issues raised by the DISTRICT or DISTRICT or any of its employees.*

*The CONTRACTOR shall ensure that such Health and Safety Representative is present on the Project site during the CONTRACTOR's working hours.*

*Each CONTRACTOR's or Subcontractor's Health and Safety Representative shall identify himself or herself to the DISTRICT at the briefing/tailgate conference.*

*The Health and Safety Representative shall verify that all Work is performed in accordance with the Health and Safety Plan.*

*The CONTRACTOR shall provide all safety equipment required for the Work.*

*At a minimum, CONTRACTOR and Subcontractor personnel directly involved in the Work shall have training in:*

*First aid, for each CONTRACTOR's and Subcontractor's Health and Safety Representative*

*Confined-space Work, if the employees will be working in or around confined spaces*

*Shoring and trenching, if Work will be in excavations*

*The CONTRACTOR's procedures for confined space rescues*

*Nothing in this Contract shall be construed as imposing any duty upon the DISTRICT, DISTRICT or any of its employees with regard to, or as constituting any express or implied assumption of control or responsibility over, Project site safety, or over any other safety conditions relating to employees or agents of CONTRACTOR or any of its Subcontractors, or the public.*

## **8. SAFETY OBSERVER**

*The DISTRICT may assign a Safety Observer to the site whenever Work is performed in:*

*An energized vault*

*Or as otherwise deemed necessary by the DISTRICT*

*The CONTRACTOR shall notify the DISTRICT at least twenty-four (24) hours before Work will be performed in an energized vault or within two (2) feet on either side of energized underground cable ("marked for locate" conductors), and shall provide a description of the Work to be performed there and the expected duration.*

*The CONTRACTOR shall inform the DISTRICT one day in advance if the CONTRACTOR or its Subcontractor(s) do not plan to work any scheduled day, for whatever reason, thus not requiring a Safety Observer to be present. The CONTRACTOR shall be back-charged for the Safety Observer's services if the CONTRACTOR or its Subcontractor(s) do not work and the Safety Observer is not so advised and is available at the Project site.*

*When the DISTRICT assigns a Safety Observer to a Project site, the Safety Observer's involvement with site safety shall be limited to electrical safety, unless the DISTRICT notifies the CONTRACTOR otherwise in writing. The Safety Observer may instruct, warn and, if necessary, order the employees to move a safe distance away from the electrical system components. In addition to all other rights of the DISTRICT, the Safety Observer shall have the authority but not the duty to stop Work if the Safety Observer judges that there is any hazard that immediately imperils life, health, or property.*

*The CONTRACTOR shall have sole responsibility for safety, pursuant to this Contract. The presence or absence of a Safety Observer shall not alter the CONTRACTOR's responsibility for the occupational health and safety of individuals on the Project site and shall not relieve the CONTRACTOR of any of its legal obligations for worker safety.*

*At the briefing/tailgate conference on each day when a Safety Observer is required, the CONTRACTOR shall notify the Safety Observer of the Work to be performed requiring a Safety Observer. Each Lead-on-Site shall complete and sign each safety checklist provided by the Safety Observer before Work begins for which a Safety Observer is required.*

**-END OF SECTION**



## SECTION 01360 - ENVIRONMENTAL PROCEDURES FOR HAZARDOUS MATERIALS

### Part 1 – GENERAL

#### 1. SUMMARY

##### *Section Includes*

Requirements for protection of biological, cultural, paleontological and other environmental resources

##### *Related Requirements*

Section 01300 – Submittals

Section 01540 – Traffic Control

Section 01560 – Temporary Environmental Controls

#### 2. SUBMITTALS

*Submit in accordance with Section 01300 – Submittals. The following plans must be approved by the DISTRICT prior to the beginning of any ground disturbing activity and CONTRACTOR must maintain practices and mitigation devices and materials prescribed by the plan throughout the duration of construction*

*Hazardous Materials Management Plan (HMMP)*

#### 3. QUALITY ASSURANCE

##### *Regulatory Requirements*

Perform Work in conformance with the environmental mitigate

on measures in this Section and other provisions of the Contract Documents. Conduct all operations in such a way as to minimize environmental impacts and comply with all laws, regulations, permits, plans, and agreements applicable to the Project. Conduct operations such as to:

- a) **Minimize the removal and disturbance of natural vegetation, except as required for new surfaces required by the Contract Documents.**
- b) **Prevent erosion and loss of soil from the Project Work area.**
- c) **Maintain topsoil for re-vegetation.**
- d) **Minimize physical and chemical degradation of aquatic habitats through sediment deposition and runoff of contaminants.**
- e) **Minimize the impact of construction on the community and sensitive resources.**

### *Compliance with Plans*

CONTRACTOR must maintain practices and mitigation devices and materials prescribed by the plans throughout the duration of construction. The plans governing the Work are:

**Dust Suppression Plan**

**Storm Water Pollution Prevention Plan (SWPPP)**

**Hazardous Materials Management Plan (HMMP)**

## **4. LIABILITY**

*The requirements contained in this section are based on conditions attached to permits and agreements obtained by the DISTRICT. Violation of these conditions can result in monetary fines, requirements for restoration of or compensation for damage, or stoppage of Work. Fines imposed upon the DISTRICT resulting from CONTRACTOR noncompliance with environmental requirements included in the Contract Documents shall be paid by CONTRACTOR.*

*CONTRACTOR shall be held fully responsible for any damage resulting from CONTRACTOR operations, to natural vegetation, wildlife, cultural resources, waters of the United States and water quality, and any other environmental resources located either:*

Outside the Work areas permitted in the Contract Documents or

Inside the Work areas but clearly marked on the Drawings or in the field to indicate that avoidance of that resource is required

*CONTRACTOR shall assume full responsibility for all costs associated with restoration, re-vegetation, and monitoring to ensure successful restoration and for all other measures necessary to repair or compensate for any such damage incurred.*

*DISTRICT may require that CONTRACTOR remove construction personnel that cause flagrant and/or repeated violations of the Technical Specifications section dealing with environmental mitigation specifications. DISTRICT will monitor CONTRACTOR compliance with the environmental mitigation section and will record non-compliance events. Copies of non-compliance forms will be given to CONTRACTOR within 24 hours. DISTRICT may require remedial actions of CONTRACTOR including, but not limited to, additional training of CONTRACTOR personnel.*

*Whenever non-compliance occurs, submit to DISTRICT, memoranda documenting compliance with environmental mitigation measures as required. CONTRACTOR memoranda shall specify the environmental mitigation addressed, how compliance was met, what problems were encountered, and any remedial actions taken or planned to prevent further occurrences.*

## **PART 2 – PRODUCTS (NOT USED)**

## **PART 3 – EXECUTION**

## **1. HAZARDOUS MATERIALS MANAGEMENT**

*Hazardous materials management described herein applies to materials used by CONTRACTOR during performance of the Work. These provisions do not apply to any known or unknown existing hazardous materials that may be encountered within the Work area.*

*CONTRACTOR shall develop and implement a Hazardous Materials Management Plan (HMMP) for the Work. The HMMP shall be submitted for acceptance by the DISTRICT in full compliance with Section 01300 – Submittals. The HMMP shall be designed to minimize the potential for, and effects from, spills of hazardous, toxic, or petroleum substances during all construction activities. The HMMP shall include procedures that shall be used during the Work to prevent spills; control measures that will be installed at applicable locations within the Work area to prevent oil from entering navigable waters or adjoining shorelines; and countermeasures to be used to contain, clean up, and mitigate the effects of a spill. The HMMP shall be completed and approved by the DISTRICT before any construction activities begin. Implementation of measures included in the HMMP shall comply with all applicable county, state and federal regulations.*

*Hazardous Materials Management Plan (HMMP) shall conform, at a minimum, to the guidelines that follow:*

The HMMP shall specify procedures for documenting inventories of hazardous materials, storage, and handling. Detailed site maps shall be prepared showing storage areas. All materials shall be stored and handled according to county, state (CCR Title 22, Division 4.5, Chapter 12, Chapter 13, and Chapter 15) and federal regulations.

Fuel storage areas shall be clearly shown on site maps, segregated from other hazardous materials and hazardous waste storage, sized for 110 percent secondary containment (fuels storage greater than 660 gallons requires an additional Storage Statement filed with the Lahontan (RWQCB) properly labeled, and properly maintained. Persons handling fuel storage shall be properly trained to do so (40-hour hazardous waste training, HAZWOPER).

CONTRACTOR's yard shall be signed with the proper placards. All other hazardous and controlled materials shall be stored in a separate area with 110 percent secondary containment as shown on the site map. All materials stored shall be labeled as to its contents, and inspected for integrity. MSDS sheets shall be retained and filed onsite at the time of material delivery to the site. No hazardous or controlled materials shall be stored outside of the secondary containment area.

The HMMP shall specify proper treatment and disposal of contaminated materials and wastes, excavation, and transportation procedures for spills that contact natural soils and regulatory compliance and documentation procedures. Temporary storage (no more than 90 cubic yards) of hazardous wastes shall be in accordance with county, state, and federal regulations. Hazardous wastes shall be stored in a separate area with 110 percent secondary containment. Containers shall be properly labeled with accumulation dates and inspected for integrity. All wastes shall be removed prior to the 90-day storage limit. No hazardous wastes shall be stored outside of the secondary containment area.

The HMMP shall specify methods for preventing spills and for containing any spills that occur (for example, use of absorbent pads under vehicles during maintenance, cleanup after hydraulic hose breaks, etc.). All spills shall be cleaned up immediately. Hazardous material storage anywhere within the Work area is limited to those materials necessary to support the active efforts of the CONTRACTOR. Quantities shall be limited to that required to support 5 or fewer work days. All vehicles on the Work area shall be equipped to contain and cleanup small spills from leaking equipment, refueling, and other common types of common spills. The DISTRICT shall be notified immediately of all spills that occur on the Work area and the method of cleanup.

The HMMP shall specify methods for storage and refueling near washes, streams, rivers, and channels. Storage and use of hazardous materials in or near streams, rivers, and channels shall be consistent with California Department of Fish and Game regulations and other state and federal laws. Servicing and refueling of mobile equipment or pumps is permitted within the Work area or at staging areas, but is prohibited within 100 feet of a sensitive resource, streambed, river, or channel. For stationary equipment, such as pumps or generators, that must be located within 100 feet of a streambed, river, or channel, CONTRACTOR shall place the equipment on a plastic liner within a berm sized to contain (110 percent minimum) the maximum potential fuel spill.

The HMMP shall specify notification procedures and emergency contacts for major spills (greater than 25 gallons) or any spills that occur adjacent to, or into, streams, rivers, or channels. CONTRACTOR shall notify the DISTRICT immediately of any major spills of pollutants, hazardous materials or lubricants, any spills that occur adjacent to, or into, streams, rivers, or channels.

**-END OF SECTION-**

## SECTION 01400 - QUALITY ASSURANCE/QUALITY CONTROL

### PART 1 -- GENERAL

#### 1.1 SITE INVESTIGATION AND CONTROL

- A. The CONTRACTOR shall check and verify all dimensions and conditions in the field continuously during construction. The CONTRACTOR shall be solely responsible for any inaccuracies built into the Work due to the CONTRACTOR's (including Subcontractor's) failure to comply with this requirement.
- B. The CONTRACTOR shall inspect related and appurtenant WORK and report in writing to the DISTRICT any conditions which will prevent proper completion of the WORK. Failure to report such conditions shall constitute acceptance of all Site conditions, and any required removal, repair, or replacement caused by unsuitable conditions shall be performed by the CONTRACTOR solely and entirely at CONTRACTOR's expense.

#### 1.2 INSPECTION OF THE WORK

- A. All WORK performed by the CONTRACTOR and Subcontractors shall be inspected by the CONTRACTOR's Quality Control inspector. Nonconforming WORK and any safety hazards in the work area shall be noted and promptly corrected. The CONTRACTOR is responsible for the WORK to be performed safely and in conformance to the Contract Documents.
- B. The WORK shall be conducted under the general observation of the DISTRICT to ensure strict compliance with the Contract Documents. Such inspection may include mill, plant, shop, or field inspection as required. The DISTRICT, and any designated representatives shall be permitted access to all parts of the WORK, including plants where materials or equipment are manufactured or fabricated.
- C. The presence of the DISTRICT, or any designated representatives shall not relieve the CONTRACTOR of the responsibility for the proper execution of the WORK in accordance with all requirements of the Contract Documents. Compliance is the responsibility of the CONTRACTOR. No act or omission on the part of the DISTRICT or any designated representatives shall be construed as relieving CONTRACTOR of this responsibility. Inspection of WORK later determined to be nonconforming shall not be cause or excuse for acceptance of the nonconforming WORK. The DISTRICT may accept nonconforming WORK when adequate compensation is offered and it is in the DISTRICT's best interest as determined by the DISTRICT.
- D. All materials and articles furnished by the CONTRACTOR or Subcontractors shall be subject to rigid documented inspection by qualified personnel, and no materials or articles shall be used in the WORK until they have been inspected and accepted by the CONTRACTOR's Quality Control representative. No WORK shall be backfilled, buried, cast in concrete, covered, or otherwise hidden until it has been inspected by the DISTRICT. Any WORK covered in the absence of inspection shall be subject to uncovering. Where uninspected WORK cannot be easily uncovered, such as in concrete cast over reinforcing steel, all such WORK shall be subject to demolition, removal, and reconstruction under proper inspection.
- E. All materials and articles furnished to the CONTRACTOR by the DISTRICT shall be subject to rigid inspection by the CONTRACTOR's Quality Control representative before being used or placed by the CONTRACTOR. The CONTRACTOR shall inform the

DISTRICT, in writing, of the results of said inspections within one working day after completion of inspection. In the event that the CONTRACTOR believes any material or articles provided by the DISTRICT to be of insufficient quality for use in the WORK, the CONTRACTOR shall immediately notify the DISTRICT.

### 1.3 TIME OF INSPECTION AND TESTS

- A. Samples and test specimens required under these Specifications shall be furnished and prepared for testing in ample time for the completion of the necessary tests and analyses before said articles or materials are to be used. The CONTRACTOR shall furnish and prepare all required test specimens at the CONTRACTOR's own expense.
- B. Whenever the CONTRACTOR is ready to backfill, bury, cast in concrete, hide, or otherwise cover any WORK under this Contract, the DISTRICT shall be notified not less than 24 hours in advance to request inspection before beginning any such WORK of covering. Failure of the CONTRACTOR to notify the DISTRICT at least 24 hours in advance of any such inspections shall be reasonable cause for the DISTRICT to order a sufficient delay in the CONTRACTOR's schedule to allow time for such inspection. The costs of any remedial, or corrective work required, and all costs of such delays, including its impact on other portions of the WORK, shall be borne by the CONTRACTOR.

### 1.4 SAMPLING AND TESTING

- A. When not otherwise indicated, all sampling and testing shall be in accordance with the methods prescribed in the current standards of the ASTM, as applicable to the class and nature of the article or materials considered. However, the DISTRICT reserves the right to use any generally-accepted system of inspection that, in the opinion of the DISTRICT, will ensure that the quality of the workmanship is in full accord with the Contract Documents.
- B. The DISTRICT reserves the right to waive tests or quality assurance measures, but waiver of any specific testing or other quality assurance measure, whether or not such waiver is accompanied by a guarantee of substantial performance as a relief from the indicated testing or other quality assurance requirements as originally specified, and whether or not such guarantee is accompanied by a performance bond to assure execution of any necessary corrective or remedial work, shall not be construed as a waiver of any technical or qualitative requirements of the Contract Documents.
- C. Notwithstanding the existence of such waiver, the DISTRICT shall reserve the right to make independent investigations and tests as specified in the following paragraph and failure of any portion of the WORK to meet any of the qualitative requirements of the Contract Documents, shall be reasonable cause for the DISTRICT to require the removal or correction and reconstruction of any such WORK.
- D. In addition to any other inspection or quality assurance provisions that may be indicated, the DISTRICT shall have the right to independently select, test, and analyze, at the expense of the DISTRICT, additional test specimens of any or all of the materials to be used. Results of such tests and analyses shall be considered along with the tests or analyses made by the CONTRACTOR to determine compliance with the applicable specifications for the materials so tested or analyzed, provided that wherever any portion of the WORK is discovered, as a result of such independent testing or investigation by the DISTRICT, which fails to meet the requirements of the Contract Documents, all costs of such independent inspection and investigation and all costs of removal, correction, reconstruction, or repair of any such WORK shall be borne by the CONTRACTOR.

## 1.5 RIGHT OF REJECTION

- A. The DISTRICT shall have the right at all times and places to reject any articles or materials to be furnished hereunder which, in any respect, fail to meet the requirements of the Contract Documents, regardless of whether the defects in such articles or materials are detected at the point of manufacture or after completion of the WORK at the Site. If the DISTRICT, through an oversight or otherwise, has accepted materials or WORK which are defective or in any way contrary to the Contract Documents, such materials, no matter in what stage or condition of manufacture, delivery, or erection, may be rejected.
- B. The CONTRACTOR shall promptly remove or replace rejected articles or materials from the Site of the Work after notification of rejection.
- C. All costs of removal and replacement of rejected articles or materials shall be borne by the CONTRACTOR at no increased cost to the DISTRICT.
- D. Failure to promptly remove and replace rejected WORK shall be considered a breach of this Contract and the DISTRICT may, after 7 days notice, terminate the CONTRACTOR'S right to proceed with the affected WORK and remove and replace the Work and issue a backcharge to cover the cost of the WORK.

## 1.6 CONTRACTOR'S QUALITY ASSURANCE/QUALITY CONTROL REQUIREMENTS

- A. The CONTRACTOR shall establish and execute a Quality Assurance/Quality Control (QA/QC) program for the services which are being procured from the CONTRACTOR. The program shall provide the CONTRACTOR with adequate measures for verification and conformance to defined requirements by its personnel and lower-tier Subcontractors (including fabricators, suppliers, and sub-subcontractors). This program shall be described in a QA/QC Plan responsive to this Section.

## **PART 2 -- PRODUCTS (Not Used)**

## **PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## **SECTION 01450 – PERMITS**

### **PART 1 -- GENERAL**

#### **1. THE REQUIREMENT**

- A. The CONTRACTOR shall provide permits required for the execution of the WORK in accordance with the Contract Documents available upon request.

#### **2. PERMITS OBTAINED BY THE DISTRICT**

- A. The DISTRICT will not provide permits.

#### **3. PERMITS TO BE OBTAINED BY THE CONTRACTOR**

- A. The CONTRACTOR shall obtain any specialty permits required for the prosecution of the WORK.

### **PART 2 -- PRODUCTS (Not Used)**

### **PART 3 -- EXECUTION (Not Used)**

**END OF SECTION**

## **SECTION 01505 - MOBILIZATION**

### **PART 1 – GENERAL**

#### **1. GENERAL**

Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings, and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items at the project site.

The CONTRACTOR shall maintain on the project site a suitable office or other protected area in which shall be kept copies of Contract Documents, project progress records, etc., which shall be accessible to the DISTRICT during normal working hours.

### **PART 2 – PRODUCTS (NOT USED)**

### **PART 3 – EXECUTION (NOT USED)**

**-END OF SECTION-**

## SECTION 01520 – SECURITY

### PART 1 – GENERAL

#### 1.1 SECURITY PROGRAM

- A. *The CONTRACTOR shall protect the WORK from theft, vandalism, and unauthorized entry.*
2. *The CONTRACTOR shall restrict entry of persons and vehicles into Site.*

### PART 2 – PRODUCTS (NOT USED)

### PART 3 – EXECUTION (NOT USED)

-END OF SECTION

## SECTION 01530 - PROTECTION OF EXISTING FACILITIES

### PART 1 -- GENERAL

#### 1.1 GENERAL

- A. The CONTRACTOR shall protect all existing utilities and improvements not designated for removal and shall restore damaged or temporarily relocated utilities and improvements to a condition equal to or better than they were prior to such damage or temporary relocation, in accordance with the Contract Documents.
- B. Material shown on the plans or designated in these Specifications that is to be salvaged or used in reconstruction work, and which has been damaged or destroyed as a result of the CONTRACTOR'S operations, shall be repaired or replaced by the CONTRACTOR at no additional cost to the DISTRICT.
- C. The CONTRACTOR shall verify the exact locations and depths of all utilities indicated and make exploratory excavations of all utilities that may interfere with the WORK. All such exploratory excavations shall be performed as soon as practicable after award of the contract and, in any event, a sufficient time in advance of construction to avoid possible delays to the CONTRACTOR's work.
- D. The number of exploratory excavations required shall be that number which is sufficient to determine the alignment and grade of the utility.
- E. The CONTRACTOR shall call the Underground Service Alert (USA) 48 hours prior to commencing any digging for location of underground utility lines and cable locations. The number is (800) 642-2444.

#### 1.2 RIGHTS-OF-WAY

- A. The CONTRACTOR shall not perform any work that would affect any oil, gas, sewer, or water pipeline; any telephone, telegraph, or electric transmission line; any fence; or any other structure, nor enter upon the rights-of-way involved until notified that the DISTRICT has secured authority therefor from the proper party. After authority has been obtained, the CONTRACTOR shall give said party due notice of its intention to begin work, if required by said party, and remove, shore, support or otherwise protect such pipeline, transmission line, ditch, fence, or structure or replace the same. When two or more contracts are being executed at one time on the same or adjacent land in such manner that work on one contract may interfere with that on another, the DISTRICT shall determine the sequence and order of the WORK. When the territory of one contract is the necessary or convenient means of access for the execution of another contract, such privilege of access or any other reasonable privilege may be granted by the DISTRICT to the contractor so desiring, to the extent, amount, in the manner, and at the times permitted. No such decision as to the method or time of conducting the WORK or the use of territory shall be made the basis of any claim for delay or damage.

#### 1.3 PROTECTION OF STREET OR ROADWAY MARKERS

- A. The CONTRACTOR shall not destroy, remove, or otherwise disturb any existing survey markers or other existing street or roadway markers without proper authorization. No pavement breaking or excavation shall be started until all survey or other permanent marker points that will be disturbed by the construction operations have been properly referenced. All survey markers or points disturbed by the CONTRACTOR shall be

accurately replaced after all street or roadway resurfacing has been completed.1.4

#### RESTORATION OF PAVEMENT

- A. **General:** All paved areas including asphaltic concrete beams cut or damaged during construction shall be replaced with similar materials and of equal thickness to match the existing adjacent undisturbed areas, except where specific resurfacing requirements have been called for in the Contract Documents or in the requirements of the agency issuing a permit. All temporary and permanent pavement shall conform to the requirements of the affected jurisdictional agency. All pavements which are subject to partial removal shall be neatly saw cut in straight lines. All work will be completed within compliance of Section 02740 of this Bid Package.
- B. **Temporary Resurfacing:** Wherever required by the public authorities having jurisdiction, the CONTRACTOR shall place temporary surfacing promptly after backfilling and shall maintain such surfacing for the period of time fixed by said authorities before proceeding with the final restoration of improvements.
- C. **Permanent Resurfacing:** In order to obtain a satisfactory junction with adjacent surfaces, the CONTRACTOR shall saw cut back and trim the edge so as to provide a clean, sound, vertical joint before permanent replacement of an excavated or damaged portion of pavement. Damaged edges of pavement along excavations and elsewhere shall be trimmed back by saw cutting in straight lines. All pavement restoration and other facilities restoration shall be constructed to finish grades compatible with adjacent undisturbed pavement.
- D. **Restoration of Sidewalks or Private Driveways:** Wherever sidewalks or private roads have been removed for purposes of construction, the CONTRACTOR shall place suitable temporary sidewalks or roadways promptly after backfilling and maintain them in satisfactory condition for the period of time fixed by the authorities having jurisdiction over the affected portions before proceeding with the final restoration or, if no such period of times is so fixed, maintain said temporary sidewalks or roadways until the final restoration thereof has been made.

#### 1.5 EXISTING UTILITIES AND IMPROVEMENTS

- A. **General:**
  - 1. The CONTRACTOR shall protect, shore, brace, support, and maintain all underground pipes, conduits, drains, and other underground construction uncovered or otherwise affected by its construction operations. All pavement, surfacing, driveways, curbs, walks, buildings, utility poles, guy wires, fences, and other surface structures affected by construction operations, shall be restored to their original condition, whether within or outside the easement. All replacements shall be made with new materials.
  - 2. It shall be the CONTRACTOR's responsibility to ascertain the actual location of all existing utilities and other improvements that will be encountered in its construction operations, and to see that such utilities or other improvements are adequately protected from damage due to such operations. The CONTRACTOR shall take all possible precautions for the protection of unforeseen utility lines to provide for uninterrupted service and to provide such special protection as may be necessary.
- B. **Right of Access:** The right is reserved to the DISTRICT and to the owners of public utilities and franchises to enter at any time upon any public street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the WORK of these Contract Documents.

- C. **Underground Utilities Indicated:** Existing utility lines that are indicated or the locations of which are made known to the CONTRACTOR prior to excavation and that are to be retained, and all utility lines that are constructed during this project shall be protected from damage during excavation and backfilling and, if damaged, shall be immediately repaired or replaced by the CONTRACTOR.
- D. **Underground Utilities Not Indicated:** The CONTRACTOR is hereby notified of the possible existence of underground facilities not known to the DISTRICT or in a location different from that designated on the plans. If the CONTRACTOR encounters or has evidence of existence of an underground utility not shown on the plans or marked on the ground, the CONTRACTOR shall:
1. Ascertain the exact location of said underground utility.
  2. Immediately notify the DISTRICT and follow up with written notification to the DISTRICT.
  3. Proceed with work in another work area, if possible, until the DISTRICT directs a course of action. Where it is determined by the DISTRICT that the rearrangement or repair of an underground utility, the existence of which is not shown on the plans, is essential in order to accommodate the improvements being constructed, the DISTRICT will provide for the rearrangement or repair of such facility by other forces or such rearrangement or repair shall be performed by the CONTRACTOR and will be paid for as extra work. An extension of time may be granted for delays in connection with this work described herein and for extra work performed by the CONTRACTOR
- E. The CONTRACTOR shall cooperate with the DISTRICT to investigate possible damage of existing underground utilities suspected as a result of the CONTRACTOR's operations. The CONTRACTOR shall take such measures as necessary to physically prove to the satisfaction of the DISTRICT that the existing utilities are unharmed or adequately repaired at such locations where the DISTRICT has reasonable suspicion that damage has occurred. If said utilities are found to be undamaged by the CONTRACTOR's operations, the cost of only the uncovering and backfill ordered by the DISTRICT shall, by appropriate change order, be paid by the DISTRICT:
- F. **Damages:**
1. All costs of locating and/or repairing damage not due to failure of the CONTRACTOR to exercise reasonable care, and removing or relocating such utility facilities not indicated in the Contract Documents with reasonable accuracy, and for equipment on the project which was actually working on that portion of the WORK which was interrupted or idled by removal or relocation of such utility facilities, and which was necessarily idled during such Work will be paid for as Extra Work in accordance with the provisions of the Contract Documents.
  2. The CONTRACTOR shall be responsible for all damage to streets, roads, highways, shoulders, ditches, embankments, culverts, bridges, and other public or private property, regardless of location or character, which may be caused by transporting equipment, materials, or personnel to or from the Work or any part or Site thereof, whether by him or his Subcontractors. The CONTRACTOR shall make satisfactory and acceptable arrangements with the owner of, or the agency or authority having jurisdiction over, the damaged property concerning its repair or replacement or payment of costs incurred in connection with the damage.
- G. **Approval of Repairs:** All repairs to a damaged utility or improvement are subject to inspection and approval by an authorized representative of the utility or improvement or the DISTRICT, before being concealed by backfill or other work.

- H. **Fire Hydrants:** All fire hydrants and water control valves shall be kept free from obstruction and available for use at all times.
  - I. **Maintenance of Service:** All oil and gasoline pipelines, power, and telephone or the communication cable ducts, gas and water mains, irrigation lines, sewer lines, storm drain lines, poles, and overhead power and communication wires and cables encountered during the WORK shall remain continuously in service, unless other arrangements satisfactory to the DISTRICT are made with the owner of said pipelines, duct, main, irrigation line, sewer, storm drain, pole, or wire or cable. The CONTRACTOR shall be responsible for and shall repair all damage due to its operations, and the provisions of this section shall not be abated even in the event such damage occurs after backfilling or is not discovered until after completion of the backfilling.
  - J. Should the CONTRACTOR desire to have any rearrangement made in any utility, for its convenience in order to make easier its construction operations, which arrangement is in addition to, or different from the rearrangement indicated in the Drawings, the CONTRACTOR shall make whatever preparations are necessary with the owner of the utility for such arrangement and bear all expenses in connection therewith.
  - K. During construction, the CONTRACTOR may find it necessary to remove, obstruct or modify such existing facilities as fences, culverts, sidewalks, and small structures. It shall be the CONTRACTOR'S responsibility to obtain permission of the owner of such facility, and subsequently return it to the condition in which it was found or better.
  - L. The CONTRACTOR shall not, at any time, operate any existing valves, hydrants, blow-offs or other components within the DISTRICT's potable water system without written authorization from the DISTRICT. In the event of an emergency, the CONTRACTOR shall contact the DISTRICT to have DISTRICT employee's respond to the emergency condition. This requirement shall not prevent the CONTRACTOR from properly testing and ensuring that facilities installed under this Contract are properly functioning.
  - M. **Existing Sanitary Sewer Laterals:** The CONTRACTOR is hereby notified that both gravity and pumped sanitary sewer laterals will be encountered along the route of the pipeline. Any damage to existing laterals shall be repaired to the satisfaction of the DISTRICT and the Truckee Sanitary District (TSD).
    - 1. Repairs to sewer laterals shall utilize the same pipe material as the existing lateral. Clay pipe gravity sewer laterals may be repaired with PVC pipe.
    - 2. The CONTRACTOR shall provide all necessary materials to accomplish a proper repair. For pumped laterals, couplings and pipe shall have pressure rating of at least 150 psi.
    - 3. Upon completion of the repair, the sewer lateral shall be tested according to the latest revision of Article 10.03 – Testing Procedures for Existing Sanitary Sewer Facilities of the Truckee Sanitary District's District Code. The CONTRACTOR should note that the TSD requirements may require coordination with property owners to gain access to locations where pumps, test ports or cleanouts are located.
- 1.6 UNFAVORABLE CONSTRUCTION CONDITIONS
- A. During unfavorable weather, wet ground, or other unsuitable construction conditions, the CONTRACTOR shall confine operations to WORK that will not be affected adversely by such conditions. No portion of the WORK shall be constructed under conditions which would affect adversely the quality or efficiency thereof, unless special means or

precautions are taken by CONTRACTOR to perform the WORK in a proper and satisfactory manner.

#### 1.7 DAMAGE TO EXISTING PROPERTY

- A. The CONTRACTOR will be held responsible for any damage to existing structures, WORK, materials, or equipment because of his operations and shall repair or replace any damaged structures, Work, materials, or equipment to the satisfaction of, and at no additional cost to, the DISTRICT.
- B. The CONTRACTOR shall protect all existing structures and property from damage and shall provide bracing, shoring, or other Work necessary for such protection.
- C. The CONTRACTOR shall be responsible for all damage to streets, roads, curbs, sidewalks, highways, shoulders, ditches, embankments, culverts, bridges, or other public or private property, which may be caused by transporting equipment, materials, or personnel to or from the Work. Make satisfactory and acceptable arrangements with the agency having jurisdiction over the damaged property concerning its repair or replacement.

#### 1.8 NOTIFICATION BY THE CONTRACTOR

- A. Prior to any excavation in the vicinity of any existing underground facilities, including all water, sewer, storm drain, gas, petroleum products, or other pipelines; all buried electric power, communications, or television cables; all traffic signal and street lighting facilities; and all roadway and state highway rights-of-way, the CONTRACTOR shall notify the owners or agencies responsible for such facilities not less than 3 days nor more than 7 days prior to excavation so that a representative of said owner or agencies can be present during such Work if they so desire.
- B. When it is necessary to temporarily deny access to property, or when any utility service connection must be interrupted, the CONTRACTOR shall give notices sufficiently in advance to enable the affected persons to provide for their needs. Notices shall conform to any applicable local ordinance and, whether delivered orally or in writing, shall include appropriate information concerning the interruption and instructions on how to limit inconvenience caused thereby.
- C. The CONTRACTOR shall post a notice to the public in the local weekly newspaper advising the public of the project boundaries including a scale map showing the project area and suggested detour routes, the project time limits, the CONTRACTOR's name, and the need to be alert for construction signs and traffic control. The notice, dimensioned 3-inches x 5-inches minimum, shall appear in the two weekly issues prior to the start of the WORK.
- D. The CONTRACTOR shall contact, cooperate with, and provide written notice (including the CONTRACTOR's phone number) at least 7 days prior to beginning WORK on each street. The written notice shall include the approximate schedule and explanation of WORK and shall be given to each homeowner, business, all emergency agencies, schools, and residents which will be affected by the project; particularly in reference to temporary interruptions to vehicular access. At least 24 hours prior to initiation of WORK, a second notice shall confirm the scope of scheduled WORK. A copy of the notifications shall be submitted to the DISTRICT, for approval, prior to the start of construction. Verbal door-to-door communication shall be made prior to construction to remind all affected parties of the construction to take place. In addition, CONTRACTOR is responsible to

answer and resolve any conflicts that may arise between a homeowner or business owner and himself during the construction process. CONTRACTOR shall be responsible to maintain adequate dust control measures and to protect the private property along the roadway construction.

- E. The CONTRACTOR shall maintain a written record of all notices, along with names, addresses and dates of distribution. Copies of the record shall be provided to the DISTRICT at the time notices are distributed.
  - F. The CONTRACTOR shall minimize interaction with the public and media. The CONTRACTOR shall refer questions and comments from the public or media to the DISTRICT's representative (Mr. Josh Campbell, 530-582-3963). This requirement shall not nullify CONTRACTOR's responsibility to notify impacted residents or businesses.
- 1.9 REQUIRED PROTECTION FOR OPEN EXCAVATIONS DURING NON-WORKING HOURS
- A. Within Town of Truckee rights-of-way, required protection for open excavations during non-working hours shall comply with the encroachment permit requirements of the Town of Truckee.

**PART 2 -- PRODUCTS (Not Used)**

**PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## SECTION 01540 – TRAFFIC CONTROL

### PART 1 -- GENERAL

#### 1.1 GENERAL

- A. For the protection of traffic in public or private streets and ways, the CONTRACTOR shall provide, place, and maintain all necessary barricades, traffic cones, warning signs, lights, and other safety devices in accordance with the requirements of the latest revision of the California Manual on Uniform Traffic Control Devices, published by the California Department of Transportation.
- B. The CONTRACTOR shall take all necessary precautions for the protection of the Work and the safety of the public. Barricades and obstructions shall be illuminated at night, and all lights shall be kept burning from sunset until sunrise. The CONTRACTOR shall station such guards or flagmen and shall conform to such special safety regulations relating to traffic control as may be required by the public authorities within their respective jurisdictions. Signs, signals, and barricades shall conform to the requirements of Cal-OSHA and Subpart G, Part 1926, of the OSHA Safety and Health Standards for Construction.
- C. Prior to commencing construction, the CONTRACTOR shall submit a traffic control plan to the Town of Truckee, as appropriate. Construction within public right-of-ways shall not commence without the required approvals. The governing agency shall be allowed access to observe these traffic control plans in use and to make any changes as field conditions warrant. Any changes shall supersede these plans and be done solely at the CONTRACTOR's expense.
- D. The CONTRACTOR shall maintain existing "STOP" signs, street signs and guide signs at all times. If necessary, signs shall be set in temporary locations to ensure visibility by motorists and pedestrians.
- E. The CONTRACTOR shall remove traffic control devices when no longer needed, repair all damage caused by installation of the devices, and shall remove post settings and backfill the resulting holes to match grade.

#### 1.2 WARNING SIGNS

- A. Prior to construction within the public right-of-way, the contractor shall install W20-1 signs in accordance with Part 5 of the California Manual on Uniform Traffic Control Devices. The signs shall be professionally made with a minimum size of 36 inches. The signs shall be replaced or repaired if damaged or stolen. The placement, type and location of all traffic control devices shall be subject to review and approval by the appropriate governing agency.

### 1.3 TRAFFIC CONTROL REQUIREMENTS

- A. CONTRACTOR shall maintain at least one 12-foot travel lane on all improved streets during construction.
1. The CONTRACTOR is required to maintain pedestrian access (sidewalks) to all residences in the construction zone; providing alternate pedestrian routes when necessary; maintain vehicle access for emergency vehicles, fire trucks, ambulances, and police vehicles; provide barricades, and flagmen as necessary while working all areas; and in particular, at intersections on the project; complete roadway delineation within five days of pavement completion. Ditch openings which isolate businesses, schools, and other areas shall be provided with an approved bridge system capable of withstanding traffic loads to these areas. No road or business driveway may be closed without the approval of DISTRICT unless the CONTRACTOR has received written authorization from the party affected.
  2. Prior to the date set for the preconstruction conference, the CONTRACTOR shall submit a Traffic Control Plan to the appropriate governing agencies. The plan shall address traffic control during each portion of the WORK. Construction activities within public rights-of-way shall not commence until the Traffic Control Plan has been approved.
  3. The profile grades of all temporary driveway access, both commercial and residential, shall be such that a compact vehicle will not "bottom-out" at a speed of five miles per hour.
- B. Pedestrian traffic and access must be maintained at all times. When the CONTRACTOR's construction operations encroach upon a sidewalk, walkway, or crosswalk area, the CONTRACTOR shall take special precautions to protect the pedestrian's safety, including provisions to separate pedestrian traffic from the Work area and vehicular traffic. When pedestrian traffic is routed onto the roadway, at other than at existing crosswalk locations, the CONTRACTOR shall use portable precast concrete barrier rails to separate the pedestrian traffic from the Work area and vehicular traffic.
1. The CONTRACTOR shall conduct its activities to accommodate mail delivery, refuse collection, school busing, and all other regularly scheduled services within the project area.
  2. The CONTRACTOR shall be responsible for the public's safety in relation to the job. If any situation is found or deemed to be unsafe, the CONTRACTOR shall take appropriate measures to improve the situation and make it safe.
  3. The CONTRACTOR shall not shut off the utility supply to any residence, or hydrant, nor in any way prevent access to a fire hydrant prior to securing permission to do so from the proper authorities.
- C. **Traffic Signal Interruption:** When the scheduled Work requires altering, in any way, the number or alignment of the travel lanes entering a signalized intersection, the CONTRACTOR shall, no less than 24 hours in advance of implementing the changes, notify the governing agency.

### 1.4 FLAGMEN

- A. When required for public safety, the CONTRACTOR shall provide and station competent flagmen whose sole purpose shall be to direct the movement of public traffic either through or around the Work.
- B. Proper advance warning signs shall be in place when flagmen are working and removed when Work requiring flagmen is completed.
- C. Flagmen must be used to assist trucks for safe ingress and egress whenever truck movements may interfere with safe passage through the Work zone. The flagmen's first priority shall be to maintain the safe and efficient movement of the public traffic. Flagmen shall not be used to direct public and/or construction traffic into and through the signalized or stop sign controlled intersections nor shall they cover or alter any regulatory devices.

#### 1.5 TRAFFIC CONTROL DEVICES

- A. All traffic control devices that are not in use or will not be used for a period greater than 24 hours shall be removed by the CONTRACTOR from the public right-of-way. All traffic control devices that are determined by the DISTRICT to be unnecessary, confusing, or causing an unsafe condition, shall be removed by the CONTRACTOR from the public right-of-way immediately upon written notification by the DISTRICT. The CONTRACTOR shall not use the sidewalk area to store unused barricades unless the sidewalk is closed and an approved barricade plan is provided for rerouting the pedestrians.
- B. The CONTRACTOR shall maintain all barricades and other traffic control devices in clean and effective condition. The CONTRACTOR shall replace poorly maintained devices immediately upon notification by the DISTRICT.
- C. The CONTRACTOR shall immediately reinstall any traffic signs removed during the course of construction. Any signs that are lost or damaged shall be replaced or repaired at no additional cost to the DISTRICT.
- D. The CONTRACTOR shall remove all road markings, pavement markers, and other delineation that conflicts with the safe flow of traffic and the CONTRACTOR'S approved traffic control plans. All such items shall be restored prior to Final Completion of the project.
- E. The CONTRACTOR shall provide temporary traffic striping, if existing delineation is destroyed during trenching or other Work. Painted markings or striping tape may be used. Temporary striping must be approved for material and layout by the appropriate governing agency. All temporary painted markings shall be removed by sandblasting prior to Final Completion of the project.

#### 1.6 AUTHORITY OF THE TOWN OF TRUCKEE

- A. When performing Work within Town of Truckee rights-of-way, the CONTRACTOR shall comply with the approved traffic control plan. The Town shall be allowed access to any project location within Town of Truckee rights-of-way. The Town shall have the authority to order changes to the approved traffic control plan as field conditions warrant. Such changes may include but are not limited to placement of additional warning signs, cones and delineators; relocation of warning signs, cones delineators; or requiring additional flagmen. The CONTRACTOR shall comply with changes ordered by the Town at no additional cost to the DISTRICT.
- B. The authority of the Town to order changes to the Work is expressly limited to issues of

traffic control and public safety **ONLY**. Any other changes requested by the Town, such as changes in materials, alignment or working methods shall be referred to the DISTRICT. Any changes to the Work made by the CONTRACTOR, without direction by the DISTRICT, shall be subject to removal and reinstallation at no additional cost to the DISTRICT.

1.7 STANDARD TRAFFIC CONTROL PLANS

- A. Included at the end of this Section, for reference are copies of standard traffic control plans prepared by the California Department of Transportation. The CONTRACTOR may use these plans for reference when preparing its traffic control plan to the appropriate governing agency.

**PART 2 -- PRODUCTS (Not Used)**

**PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## SECTION 01550 - SITE ACCESS AND STORAGE

### PART 1 -- GENERAL

#### 1.1 HIGHWAY LIMITATIONS

- A. The CONTRACTOR shall make its own investigation of the condition of available public and private roads and of clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress to the site of the WORK. It shall be the CONTRACTOR's responsibility to construct and maintain any haul roads required for its construction operations.

#### 1.2 TEMPORARY CROSSINGS

- A. **General:** Continuous, unobstructed, safe, and adequate pedestrian and vehicular access shall be provided to fire hydrants, commercial and industrial establishments, churches, schools, parking lots, service stations, motels, fire and police stations, and hospitals. Safe and adequate public transportation stops and pedestrian crossings at intervals not exceeding 300 feet shall be provided. The CONTRACTOR shall cooperate with parties involved in the delivery of mail and removal of trash and garbage so as to maintain existing schedules for such services. Vehicular access to residential driveways shall be maintained to the property line except when necessary construction precludes such access for reasonable periods of time.
- B. **Temporary Bridges:** Wherever necessary, the CONTRACTOR shall provide suitable temporary bridges or steel plates over unfilled excavations, except in such cases as the CONTRACTOR shall secure the written consent of the responsible individuals or authorities to omit such temporary bridges or steel plates, which written consent shall be delivered to the DISTRICT prior to excavation. All such bridges or steel plates shall be maintained in service until access is provided across the backfilled excavation. Temporary bridges or steel plates for street and highway crossing shall conform to the requirements of the authority having jurisdiction in each case, and the CONTRACTOR shall adopt designs furnished by said authority for such bridges or steel plates, or shall submit designs to said authority for approval, as may be required.

#### 1.3 PUBLIC ACCESS

- A. **Street Use:** Nothing herein shall be construed to entitle the CONTRACTOR to the exclusive use of any public street, alleyway, or parking area during the performance of the WORK hereunder, and it shall so conduct its operations as not to interfere unnecessarily with the authorized work of utility companies or other agencies in such streets, alleyways, or parking areas. No street shall be closed to the public without first obtaining permission of the DISTRICT and proper governmental authority. Where excavation is being performed in primary streets or highways, one lane in each direction shall be kept open to traffic at all times unless otherwise indicated. Toe boards shall be provided to retain excavated material if required by the DISTRICT or the agency having jurisdiction over the street or highway. Fire hydrants on or adjacent to the WORK shall be kept accessible to fire-fighting equipment at all times. Temporary provisions shall be made by the CONTRACTOR to assure the use of sidewalks and the proper functioning of all gutters, storm drain inlets, and other drainage facilities

- B. **Temporary Street Closure:** If closure of any street is required during construction, the CONTRACTOR shall apply in writing to the governing agency or agencies at least 30 days in advance of the required closure.
- C. **Temporary Driveway Closure:** The CONTRACTOR shall notify the owner or occupant (if not owner-occupied) of the closure of the driveways to be closed more than one eight-hour work day at least 3 working days prior to the closure. The CONTRACTOR shall minimize the inconvenience and minimize the time period that the driveways will be closed. The CONTRACTOR shall fully explain to the owner/occupant how long the work will take and when closure is to start.

#### 1.4 NOTIFICATION OF LOCAL AGENCIES AND UTILITIES

- A. The CONTRACTOR shall notify the Town of Truckee, Placer County, the California Department of Transportation, the Truckee Fire Protection District, Tahoe-Truckee Unified School District, Tahoe Truckee Sierra Disposal Company, Nevada County Sheriff Department and California Highway Patrol of its construction operations at least two days prior to commencing work. The CONTRACTOR shall cooperate with local authorities relative to traffic movement in the construction area.

#### 1.5 CONTRACTOR'S WORK AND STORAGE AREA

- A. The DISTRICT has not secured a staging area for use by the CONTRACTOR.
- B. Should the existing work area prove insufficient, the CONTRACTOR shall make its own arrangements for any additional off-site storage or shop areas necessary for the proper execution of the WORK. The CONTRACTOR shall take precautions to protect stored materials. Construction materials shall not be stored in such a manner as to be a hazard to traffic or the public in general.

#### 1.6 PARKING

- A. The CONTRACTOR shall direct its employees to park in such a manner that complies with the requirements of the local governing agency.

### **PART 2 -- PRODUCTS (Not Used)**

### **PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## SECTION 01560 - TEMPORARY ENVIRONMENTAL CONTROLS

### PART 1 -- GENERAL

#### 1.1 EXPLOSIVES AND BLASTING

- A. The use of explosives on the WORK shall be permitted only upon expressed written consent of the DISTRICT.
- B. Blasting operations shall conform to all federal, state, and local ordinances, regulations and requirements. Blasting shall only be done by appropriately certified personnel. All blasting materials shall be secured so as to prevent loss by theft or vandalism. The use of explosives shall be controlled by consideration of safety of the public.
- C. Blasting Procedures:
  1. General
    - a. Blasting and storage and handling of explosives shall be in accordance with the Construction Safety Orders of the Division of Industrial Safety of the California Department of Industrial Relations, and other authorities which have jurisdiction.
    - b. The CONTRACTOR shall pay the cost of obtaining any required blasting permits.
    - c. Blasting shall be done only by skilled operators under the direction of a licensed foreman.
    - d. The CONTRACTOR shall identify all property, structures, and persons which may be affected by blasting and shall take all safety precautions and protective measures to prevent damage or injury to same. All personal injury or damage to persons or property of any nature, whether in the WORK or appurtenant to it, shall be the responsibility of the CONTRACTOR.
    - e. The CONTRACTOR agrees by submission of a bid to indemnify and hold the DISTRICT, its officers, agents, and employees harmless from any and all liability claims, costs, expenses including expenses of investigation and defending against same in regard thereto.
    - f. Blasting shall only be permitted between 7:00 AM and 6:00 PM, Monday through Friday, unless otherwise approved by the DISTRICT and regulatory agencies having jurisdiction. Blasting will not be permitted on weekends or legal holidays.
  2. Pre-Blasting:
    - a. Inspections of all structures within 300 feet of the blast site shall be made no more than 2 weeks prior to commencement of blasting. Such inspections shall be videotaped to provide documentation of any visible or reasonable recognizable pre-existing defects or damage in structures.
    - b. Complete inspection reports listing findings with videotapes shall be submitted to the DISTRICT before blasting commences.
    - c. The CONTRACTOR shall provide notice to all residents, businesses, and utility owners which may be affected by blasting. Such notices should be provided at the start of the project and shall be repeated weekly until completion of all

excavation work.

### 3. Blasting

- a. Fly rock from blasting shall be contained within the project site and shall not represent a hazard to people, vehicles, existing improvements, or vegetation.
- b. The blasting site shall be cleaned of all debris at the end of each day.
- c. No blasting shall be done within 100 feet of concrete which has been placed less than 7 days, except by permission of the DISTRICT.

### 4. Post-Blasting

- a. The CONTRACTOR shall investigate each complaint of property damage, and a written report shall be furnished to the DISTRICT within 30 days of receipt of the complaint.

## 1.2 DUST ABATEMENT

- A. The CONTRACTOR shall furnish all labor and equipment, and means required and carry out effective dust control measures wherever and as often as necessary to prevent CONTRACTOR's operation from producing dust in amounts damaging to property, cultivated vegetation, or domestic animals, or causing a nuisance to persons living in or occupying buildings in the vicinity. The CONTRACTOR shall be responsible for any damage resulting from any dust originating from its operations. The dust abatement measures shall be continued until the CONTRACTOR is relieved of further responsibility by the DISTRICT.
- B. The CONTRACTOR shall water active construction sites and unpaved roads as necessary to control dust.
- C. If the CONTRACTOR cannot maintain effective dust control under windy conditions, the CONTRACTOR shall temporarily suspend all excavating and grading operations.
- D. If watering of unpaved roads is not sufficient to control dust, the CONTRACTOR shall reduce vehicle speeds to 15 mph or less on unpaved roads.
- E. The CONTRACTOR shall comply with all requirements of Rule 226 as adopted by the Northern Sierra Air Quality Management District. A copy of this rule is included at the end of this section.

## 1.3 RUBBISH CONTROL

- A. The CONTRACTOR shall prepare a trash abatement program and submit it to DISTRICT for review and approval. The program shall include placing all litter, trash, and garbage in scavenger-proof, resealable containers. Trash includes, but is not limited to, cigarettes, cigars, gum wrappers, tissue, cans, paper, and bags. During the progress of the WORK, the CONTRACTOR shall keep the Site of the Work and other areas used by the CONTRACTOR in a neat and clean condition, and free from any accumulation of rubbish. The CONTRACTOR shall dispose of all rubbish and waste materials of any nature occurring at the Site and establish regular intervals of collection and disposal of such materials and waste. The CONTRACTOR shall keep haul roads free from dirt, rubbish, and unnecessary obstructions resulting from its operations. Disposal of all rubbish and

surplus materials shall be off the Site of construction in accordance with local codes and ordinances governing locations and methods of disposal, and in conformance with all applicable safety laws, and to the requirements of Part 1926 of the OSHA Safety and Health Standards for Construction.

- B. The CONTRACTOR shall clean up and properly dispose of any oil, fuel, and other equipment leaks at the time of occurrence. Service/maintenance vehicles shall carry a bucket and pads to absorb leaks and spills. The CONTRACTOR shall notify the DISTRICT of any spills or leaks at the time of occurrence.

#### 1.4 SANITATION

- A. Toilet Facilities: Fixed or portable chemical toilets shall be provided wherever needed for the use of employees. Toilets at construction job sites shall conform to the requirements of Part 1926 of the OSHA Standards for Construction.
- B. Sanitary and Other Organic Wastes: The CONTRACTOR shall establish a regular collection of all sanitary and organic wastes. All waste and refuse from sanitary facilities provided by the CONTRACTOR or organic material wastes from any other source related to the CONTRACTOR's operations shall be disposed of away from the Site in a manner satisfactory to the DISTRICT and in accordance with all laws and regulations pertaining thereto.

#### 1.5 CHEMICALS

- A. All chemicals used during project construction or furnished for project operation, whether soil sterilant, pesticide, disinfectant, polymer, reactant or of other classification, shall show approval of either the U.S. Environmental Protection Agency or the U.S. Department of Agriculture. Use of all such chemicals and disposal of residues shall be in strict accordance with the printed instructions of the manufacturer.
- B. Herbicides, pesticides, and SDWA regulated compounds shall not be used unless prior approval is obtained. If CONTRACTOR decides that herbicides are needed, the CONTRACTOR shall obtain written approval to use the herbicide from the proper regulatory agencies. Copies of the documents approving such usage shall be submitted to the DISTRICT a minimum of three working days prior to their application.

#### 1.6 FIRE PREVENTION

It is of the DISTRICT'S highest priority to ensure that the CONTRACTOR prevents the ignition of fires during the execution of this project's scope of work. The risk of fire ignition in the Truckee, California region during the summer and early fall is extremely high. It will be the CONTRACTOR'S responsibility to use every precaution possible to prevent the ignition of fires during their work on site and to have a comprehensive plan to immediately extinguish any such ignition.

- A. Fire Reporting: There shall be readily available telephone service to the Site of the WORK. Appropriate telephone numbers shall be conspicuously posted near each telephone. Instructions shall be issued to notify the proper authorities immediately in case of fire.
- B. Access for Fire Fighting
  - 1. Every building adjacent to the WORK shall be accessible to fire department apparatus by way of access roadways.

2. Access roadways shall not be obstructed in any manner, including parking vehicles. "No Parking" signs or other appropriate notice, or both, prohibiting obstruction may be required.
3. Access for use of heavy firefighting equipment shall be provided to the immediate job site at the start of the Contract and maintained until completion.

C. General Fire Prevention Provisions:

1. Smoking: Smoking shall be prohibited at all times in the underground excavations and at or in the vicinity of hazardous operations or combustible/flammable materials. "No Smoking" signs shall be posted in these areas.
2. Refueling: Special care shall be taken to prevent fires when refueling equipment.
3. Oil Filters, Cartridges, and Oily Rags: Used and discarded oil filters, cartridges, and oil rags or waste shall be removed from the Site and disposed of properly.
4. Storage of Flammables: Glass jugs or bottles shall not be used as storage containers for flammable materials. Gasoline, oil, grease, and other highly flammable materials shall be stored either in a separate building, or at a site where all debris is cleared within a radius of 25 feet. Storage buildings or sites shall be a minimum distance of 50 feet from other structures. Storage buildings shall be adequately posted with highly visible signs to warn of the flammables and to prohibit smoking in or around the buildings.

1.7 CULTURAL RESOURCES

- A. The DISTRICT has developed a flexible on-site/on-call agreement with a qualified archaeologist that will be empowered to redirect construction activities away from any cultural resources' discovery. In the event that subsurface archaeological features or materials are exposed during any phase of project activities, all work in the immediate vicinity of the find shall halt until the qualified archaeologist has assessed the site and the significance of the resource has been evaluated. The District will coordinate any findings with the appropriate state, federal, and tribal entities according to standard reporting procedures. Any mitigation measures that may be deemed necessary shall be implemented by a qualified archaeologist representing the DISTRICT prior to the resumption of construction activities.
- B. The CONTRACTOR's attention is directed to the National Historic Preservation Act of 1966 (16 U.S.C. 470) and 36 CFR 800 which provide for the preservation of potential historical architectural, archaeological, or cultural resources (hereinafter called "cultural resources").
- C. The CONTRACTOR shall conform to the applicable requirements of the National Historic Preservation Act of 1966 as it relates to the preservation of cultural resources.
- D. In the event potential cultural resources are discovered during subsurface excavations at the Site of construction, the following procedures shall be instituted:
  1. The DISTRICT shall issue a Field Order directing the CONTRACTOR to cease all construction operations at the location of such potential cultural resources find. The area shall be marked by the CONTRACTOR in an appropriate manner to ensure that all construction equipment, activities, and personnel remain clear of the area until further notice.
  2. The DISTRICT shall retain a qualified archaeologist to evaluate the find and determine if any additional mitigation is required. The DISTRICT shall implement any required study or removal. The DISTRICT shall notify the CONTRACTOR when the mitigation is complete and construction in the affected area can resume.

- E. If human remains are exposed by project-related activity, the DISTRICT and the CONTRACTOR shall comply with California Health and Safety Code Section 7050.5, which states that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to California Public Resources Code Section 5097.98. The DISTRICT and CONTRACTOR shall provide the opportunity for (a) Native American monitor(s) to participate in the identification, evaluation, and mitigation of effects upon, any Native American human remains or cultural resources inadvertently exposed during the proposed undertaking. Continued consultation with personnel designated by the Washoe Tribe of Nevada and California would be acceptable. Should the tribal representatives agree to consult on any such discoveries, the costs incurred shall be the responsibility of the DISTRICT.

#### 1.8 AIR QUALITY

- A. The CONTRACTOR shall maintain all vehicles and equipment in proper tune.
- B. The CONTRACTOR shall use Best Available Control Technology on construction equipment, including a timing retardation.
- C. The CONTRACTOR shall use natural-gas powered construction equipment where possible.
- D. The CONTRACTOR shall encourage employee car-pooling.
- E. The CONTRACTOR shall comply with all air pollution control rules, regulations, ordinances and statutes that apply to the work area. The Northern Sierra Air Quality Management District can be contacted at telephone 530-274-9360.

#### 1.9 NOISE

- A. The CONTRACTOR shall comply with the hours of WORK as allowed by the local jurisdiction.
- B. The CONTRACTOR shall comply with all sound control and noise level rules, regulations and ordinances. The CONTRACTOR shall comply with the Town of Truckee Title 18, Development Code, Chapter 18.44.
- C. All construction equipment shall be equipped with manufacturer's standard noise control devices (i.e., mufflers, acoustical lagging, and/or engineer enclosures). The CONTRACTOR shall take special care not to throttle the engine excessively and shall keep engine speed as low as possible. The CONTRACTOR shall not leave equipment running or idling needlessly, especially when near noise-sensitive land uses. Noise-sensitive land uses include, but are not limited to, residences, schools, hospitals, libraries, retirement and elderly care centers, religious and worship facilities, courts of law, certain noise-sensitive professional offices, and quiet recreational areas such as campgrounds and hiking trails.
- D. The CONTRACTOR shall use newer equipment whenever possible. The CONTRACTOR shall inspect all construction equipment at periodic intervals to ensure proper maintenance and the presence of noise control devices (i.e., mufflers and shrouding, etc.).
- E. The CONTRACTOR shall locate stationary noisy equipment away from construction boundaries that are near noise-sensitive land uses.
- F. If dewatering pumps and generators are required to be operated between the hours of 6 p.m. and 7 a.m. within 600 feet of a noise-sensitive land use, they shall be treated with acoustic noise control measures (e.g., mufflers, shrouding, and/or enclosures) to comply with the appropriate requirements of the local jurisdiction.

- G. If requested by the DISTRICT, the CONTRACTOR shall install temporary noise barriers for construction activities, including staging areas that occur closer than 100 feet from noise-sensitive land uses. Noise barriers can be made of plywood, heavy vinyl curtain material, natural or temporary earth berms, or stockpiles of construction material.
- 1.10 DISPOSAL OF WATER FROM DEWATERING, FLUSHING AND DISINFECTION
- A. The CONTRACTOR shall not, at any time, discharge water from construction activities directly to the environment.
  - B. If groundwater is encountered during construction, the CONTRACTOR shall pipe the water from its dewatering pumps directly into tanker trucks. Water from trench dewatering shall not be discharged to the sanitary sewer.
- 1.11 SPILL CONTAINMENT
- A. The CONTRACTOR shall take every reasonable precaution to protect streams, lakes, reservoirs, bays and the public water supply from pollution with fuels, oils, bitumen, calcium chloride, and other harmful materials.
  - B. The CONTRACTOR shall have on-site, at all times, materials and equipment to contain any spill of gasoline, diesel fuel or other hazardous substances. Any such spills shall be prevented from reaching any surface water bodies. Furthermore, in the event of a spill, the appropriate public agencies shall be contacted to ensure proper clean-up and documentation of the spill incident
- 1.12 EROSION CONTROL
- A. The CONTRACTOR shall conduct and schedule his operations so as to avoid muddying and silting any waterways or drainage ditches. Care shall be exercised to preserve roadside vegetation beyond the limits of construction.
  - B. The CONTRACTOR shall implement erosion control measures to prevent the erosion and transport of sediment from the Project site. Silt fencing, straw bales, straw wattles and other similar measures shall be placed as required to accomplish this objective. The CONTRACTOR shall inspect and maintain all erosion control measures throughout the duration of the Work on a daily basis.
  - C. Excavated materials and imported material stockpiles shall not be placed directly on top of existing vegetation. Materials may be placed on paved areas, on sheets of fiber reinforced plastic, or may be placed directly into trucks for removal from the site for proper disposal. To the maximum extent possible stockpiles shall be on the uphill side of trenches and excavations.
  - D. Established drainage ditches disturbed by the CONTRACTOR'S operations shall be graded to their original dimensions and slopes. The CONTRACTOR shall then install a three-dimensional woven geotextile specifically designed for erosion control in vegetated drainage ditches. The geotextile shall cover the sloped sides and bottom of the ditch disturbed by trench excavation. Installation of the geotextile shall be according to the manufacturer's instructions. Drainage ditches shall then be seeded in accordance with Section 02900 – Site Revegetation.
  - E. A Stormwater Pollution Prevention Plan (SWPPP) has been prepared for this project. The SWPPP is a separate document and will be available for review at the District's Office at 11570 Donner Pass Road. A copy of the SWPPP will be provided to the CONTRACTOR at no charge. Given at the end of this Section are certification forms that shall be completed by the CONTRACTOR and all of its subcontractors prior to commencing work on the project. No subcontractor shall be allowed onto the project site without completing the attached certification.

1. The CONTRACTOR shall be responsible for implementing all appropriate provisions of the SWPPP.
  2. In the event of a discharge, the CONTRACTOR shall immediately notify the DISTRICT. Even if such a discharge occurs after normal working hours.
  3. The CONTRACTOR is referred to the DISTRICT'S *Best Management Practice and Erosion Control Manual*. A copy of this document may be obtained from the DISTRICT at no charge.
  4. The CONTRACTOR is also referred to the *Caltrans Construction Site Best Management Practices (BMP) Manual* for additional information regarding the implementation of erosion control measures beyond what is given in the SWPPP and DISTRICT BMP Manual. This Caltrans document can be found at <http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm>. Additional information is also given in *Volume II: Handbook of Best Management Practices of the Water Quality Management Plan for the Lake Tahoe Region* which can be obtained from the Tahoe Regional Planning Agency.
- F. **Site Inspection Prior to Commencing Work:** Prior to commencing work on a given pipeline segment, the CONTRACTOR and the DISTRICT shall jointly conduct a site inspection. The purpose of this site inspection shall be to review implementation of the SWPPP and identify any adjustments to the SWPPP that may be necessary.
- G. **Compliance with SWPPP:**
1. The DISTRICT shall conduct daily inspections of the project work site to verify that the CONTRACTOR is complying with the SWPPP. All areas of non-compliance shall be identified and brought to the CONTRACTOR'S attention. The CONTRACTOR shall correct areas of non-compliance as soon as practical, and not later than the end of the workday on the same calendar day. During the following day's daily inspection, the DISTRICT shall verify that all areas of non-compliance identified the day before having been corrected. In the event that previously identified issues have not been corrected, the DISTRICT shall take the following steps:
    - a. For the first event of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance with the SWPPP*. A sample Notice is attached. The DISTRICT shall then order the CONTRACTOR to stop work immediately and correct the areas of non-compliance.
    - b. For the second event of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance with the SWPPP*. The DISTRICT shall then order the CONTRACTOR to stop work immediately and correct the areas of non-compliance. In addition, the DISTRICT may order that the CONTRACTOR'S personnel attend a second training seminar to receive additional education regarding BMP implementation and compliance with the SWPPP. The CONTRACTOR shall not be due any additional compensation for performing this work and the CONTRACTOR shall not be due any additional compensation for lost production, overtime charges or any other claim that results from the CONTRACTOR'S failure to comply with the SWPPP.
    - c. For the third event (and any subsequent events) of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance*

*with the SWPPP.* The DISTRICT shall then order the CONTRACTOR to stop work immediately and correct the areas of non-compliance. The CONTRACTOR shall not be due any additional compensation for performing this work and the CONTRACTOR shall not be due any additional compensation for lost production, overtime charges or any other claim that results from the CONTRACTOR'S failure to comply with the SWPPP. In addition, the DISTRICT shall deduct as liquidated damages an amount from the monies owed to the CONTRACTOR given in the following schedule:

Event	Amount
First	\$0
Second	\$0
Third	\$500
Fourth	\$1,000
Fifth	\$1,500
Sixth (and subsequent)	\$2,000

2. The DISTRICT shall also perform site inspections after working hours and on weekends to ensure that the project site is properly secured during those time periods when the CONTRACTOR's personnel are not present. In the event that the DISTRICT identifies areas of non-compliance during such inspections, the CONTRACTOR shall immediately modify its practices regarding site stabilization to comply with the SWPPP. The DISTRICT shall take the following steps regarding issues identified during non-working hours:
  - a. The DISTRICT may take corrective action to stabilize the project site and ensure compliance with the SWPPP. In such a case, the CONTRACTOR shall be responsible for reimbursing the DISTRICT for the cost of all labor, equipment and materials utilized to perform such corrective actions.
  - b. For the first event of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance with the SWPPP*. A sample Notice is attached. The DISTRICT shall then order the CONTRACTOR to stop work immediately and correct the areas of non-compliance.
  - c. For the second event of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance with the SWPPP*. The DISTRICT may order that the CONTRACTOR's personnel attend a second training seminar to receive additional education regarding BMP implementation and compliance with the SWPPP. The CONTRACTOR shall not be due any additional compensation for performing this work and the CONTRACTOR shall not be due any additional compensation for lost production, overtime charges or any other claim that results from the CONTRACTOR'S failure to comply with the SWPPP.

- d. For the third event (and any subsequent events) of non-compliance, the DISTRICT shall present the CONTRACTOR with a *Notice of Non-Compliance with the SWPPP*. The DISTRICT shall deduct as liquidated damages an amount from the monies owed to the CONTRACTOR given in the following schedule:

Event	Amount
First	\$0
Second	\$0
Third	\$500
Fourth	\$1,000
Fifth	\$1,500
Sixth (and subsequent)	\$2,000

3. Events of non-compliance with the SWPPP shall be considered cumulative for the purposes of determining monetary penalties. As an example, the CONTRACTOR receives a *Notice of Non-Compliance* for improper installation of silt fencing on day 10 of the project, then receives a *Notice of Non-Compliance* for inadequate sweeping and site cleanup on day 13 of the project and then receives a *Notice of Non-Compliance* for improperly securing spoils piles over a weekend on day 22 of the project. The third *Notice of Non-Compliance* would result in a deduction of \$500 from the monies owed to the CONTRACTOR, even though each *Notice of Non-Compliance* resulted from a different type of activity.
4. The DISTRICT shall have sole discretion to determine whether the actions (or non-actions) of the CONTRACTOR result in a violation of the SWPPP.
5. Events of non-compliance with the SWPPP shall be considered violations of the Agreement. The issuance of six (or more) *Notices of Non-Compliance* shall be considered non-performance and an event of default of the Contract and shall be sufficient grounds for the DISTRICT to terminate the Contract.
- H. **Citations or Notices:** In the event that any Citations or Notices of Violation are issued for actions by the CONTRACTOR under this Contract, they shall be considered a Notice of Non-Compliance for the purposes of determining liquidated damages as described above.
- I. **Fines and/or Penalties:** In the event that fines or penalties are levied on the DISTRICT for actions by the CONTRACTOR under this Contract, the DISTRICT shall deduct the amount of the fine or penalty from the monies due to the CONTRACTOR.
- J. **Applicability of Liquidated Damages:** By signing the Agreement in Section 00500, the CONTRACTOR recognizes that it is in the DISTRICT'S interest to construct the project in a neat and workmanlike manner and that compliance with the SWPPP is necessary for the DISTRICT to comply with Federal and State regulations. The CONTRACTOR also acknowledges that the DISTRICT will suffer a loss of public standing with its customers,

the Lahontan RWQCB, the California SWQCB, other local agencies and the general public if the project work site is not properly maintained. The CONTRACTOR further acknowledges that such losses incurred by the DISTRICT would be extremely difficult or impossible to calculate or ascertain. The DISTRICT and the CONTRACTOR recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by the DISTRICT. Accordingly, instead of requiring any such proof, the CONTRACTOR agrees that as liquidated damages (but not as a penalty), the CONTRACTOR shall pay the DISTRICT the amounts as indicated in this Section for incidents of non-compliance with the SWPPP. The DISTRICT shall have the right to deduct the liquidated damages from any money in its hands, otherwise due, or to become due, to the CONTRACTOR, or to initiate applicable dispute resolution procedures and recover damages for non-performance of this Contract.

**PART 2 -- PRODUCTS (Not Used)**

**PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

## RULE 226 - DUST CONTROL

### PART 1.0 GENERAL

#### 1.1 Purpose:

The purpose of this rule is to reduce and control fugitive dust emissions to the atmosphere.

#### 1.2 Applicability:

This rule shall apply to any person engaged in:

- a. Dismantling or demolition of buildings
- b. Public or Private Construction
- c. Mining
- d. Processing of solid bulk materials (i.e., sand, gravel, rock, dirt, sawdust, ash, etc.)
- e. Operation of machines or equipment
- f. Operation and use of unpaved parking facilities
- g. Operation and use of livestock and/or horse arenas
- h. Operation of feed lots
- i. Operation and use of raceways for animals or motor vehicles.

#### 1.3 Exemptions:

The requirements set forth in Part 3.0 - Standards do not apply to commercial agricultural operations.

### PART 2.0 DEFINITIONS

**Bulk Materials:** Any unpackaged material which emits dust when stored or handled (i.e., dirt, sand, gravel, sawdust, ash, rock, etc.).

**Chemical Soil Stabilization/Suppression:** A means of dust control implemented by any person to mitigate PM 10 emissions by applying petroleum resins, asphaltic emulsions, acrylics, adhesives, or any other approved materials.

**Construction Site:** A site on which construction, demolition, or related activities occur, including, but not limited to, land clearing, excavation related to construction, land leveling, grading, cut and fill grading, and the erection or demolition of a structure. As used in this Rule, a construction site may encompass several contiguous parcels, or may encompass only a portion of one parcel, depending on the relationship of the property boundaries to the actual construction activities.

**Disturbed Area:** An area in which soils have been disturbed by grading, land leveling, scraping, cut and fill activities, excavation, brush and timber clearing, grubbing, and soils on which vehicle operation has occurred.

**Dust Suppressants:** Water, hygroscopic materials, chemical stabilization palliatives and suppression materials, and other approved substances.

**Fugitive Dust:** The particulate matter entrained in the ambient air which is caused from man-made and natural activities which is emitted into the air without first passing through a stack or duct designed to control flow, including, but not limited to, emissions caused by movement of soil, vehicles, equipment, and wind blown dust. This excluded particulate matter emitted directly in the exhaust of motor vehicles, from other fuel combustion devices, portable brazing, soldering, or welding equipment, and from pile drivers.

**Hygroscopic Materials:** Any material that is readily capable of absorbing moisture from the air.

**Land Preparation:** Any preparation of land for anthropogenic (human) purposes, including brush or timber clearing, grubbing, scraping, ground excavation, land leveling, or grading.

**Operation:** Any activity, process, or project described in the applicability sections of the Rules of this Regulation.

**Owner/Operator:** Includes, but is not limited to, any person who leases, supervises, or operates equipment, in addition to the normal meaning of owner or operator.

**Palliative:** Any dust control agent used to lessen or reduce dust emissions.

**Particulate Matter:** Any material emitted or entrained into the air as liquid or solid particulates, with the exception of uncombined water. For PM-10, refer to Definition).

**Paved Roads:** An improved street, highway, alley, public way, or easement that is covered by concrete, asphaltic concrete, asphalt, or other materials which provide a permanent stable surface.

**Person:** Any individual, public and private corporation, government agency, partnership, association, firm, trust, estate, or any other legal entity which is recognized by law as the subject of rights and duties.

**PM-10:** Particulate matter with an aerodynamic diameter smaller than or equal to a nominal ten (10) microns as measured by the applicable State and Federal reference test methods.

**Reasonably Available Control Measures:** Techniques used to limit the emission and/or airborne transport of fugitive dust from a site including: application of water, chemical stabilizers/suppressants, soil stabilizers, or other liquids, covering, paving, enclosing, shrouding, compacting, planting, cleaning, or such other measures the Air Pollution Control Officer may approve to accomplish satisfactory results for temporary and/or extended suppression of PM-10 emissions.

**Road:** Any paved or unpaved, public or private street, highway, freeway, alley way, access drive, access easement, haul road, or driveway.

**Site:** Real property or land used or set aside for any specific use.

**Unpaved Roads:** An open way that is not covered by one of the materials described in the paved road definition.

**Vehicle:** Any device by which any person or property may be propelled, moved, or drawn, excepting aircraft or watercraft or devices moved exclusively by human or animal power or used exclusively upon rails or tracks.

**Visible Dust Emission:** Visible dust of such opacity as to obscure an observer's view to a degree equal to or greater than an opacity of 20%, for a period or periods aggregating more than three (3) minutes in any one (1) hour.

## **PART 3.0 STANDARDS**

### **3.1 General Requirements:**

Any person shall take all reasonable precautions to prevent dust emissions. Reasonable precautions may include, but are not limited to, cessation of operations, cleanup, sweeping, sprinkling, compacting, enclosure, chemical or asphalt sealing, and use of wind screens or snow fences.

1. No person may disturb the topsoil or remove ground cover on any real property and thereafter allow the property to remain unoccupied, unused, vacant or undeveloped unless reasonable precautions are taken to prevent generation of dust. A dust control plan must

be submitted to and approved by the Air Pollution Control Officer before topsoil is disturbed on any project where more than one (1) acre of natural surface area is to be altered or where the natural ground cover is removed. In the dust control plan, the Air Pollution Control Officer may require use of palliatives, reseeding, or other means to minimize windblown dust.

2. For any proposed development, division of land, special use permit application of zone change, the Air Pollution Control Officer may require the applicant to submit soils data and any other pertinent data for the area in which the development is proposed.
3. If a determination is made that the disturbance (per 3.1.A.) or development (per 3.1.B.) of the site may cause the generation of dust, the Air Pollution Control Officer may require:
  1. Phased clearing of the land
  2. The use of palliatives
  3. The use of water
  4. The use of snow fencing
  5. The use of wind screen
  6. Reseeding
  7. Controls of single lot development approved as a part of a land subdivision subject to these regulations.
4. After commencement of development, if the approved elements of the dust control plan prove ineffective, the Air Pollution Control Officer may require additional control measures to be instituted. Phasing will not be required as a control strategy after a project is under construction.
5. In the case of subdivisions, condominiums and planned unit developments, a dust control plan must be submitted as part of the final map approval process.
6. If a development requires a special use permit, the Air Pollution Control Officer may require the dust control plan to be submitted and become a condition of the special use permit process.
7. No person shall cause or allow the handling or storage of any materials on a manner which results or may result in the generation of dust.
8. Any vehicle operating on a paved roadway with a load of any bulk material susceptible to being dropped, spilled, leaked, or otherwise escaping therefrom and being entrained in the air, must take one of the following control measures:
  1. Six (6) inches of freeboard is maintained within the bed of the vehicle. For the purposes of this regulation, "freeboard" means the vertical distance from the

- highest portion of the edge of the load to the lowest part of the rim of the truck bed.
2. Materials contain enough moisture to control dust emissions from the point of origin to their final destination. Whenever possible, the use of dust suppressants must be applied in conjunction with the water.
  3. In the event that measures 1 or 2 are ineffective in preventing materials from escaping, tarps or other cargo covers shall be employed.
  - 4.
9. This section does not prohibit a public maintenance vehicle from depositing sand on a paved roadway to enhance traction, or sprinkling water or other substances to clean or maintain a highway.
10. Paved entry aprons or other effective cleaning techniques (e.g., wheel washers), may be required by the Air Pollution Control Officer to prevent tracking onto paved roadways. Paved entry aprons may include road section or coarse aggregate or steel grate to "knock off" dirt which accumulates on the vehicle and/or vehicle wheels.
11. Any material which is tracked onto a paved roadway must be removed (swept or washed) as quickly and as safely as possible. Exceptions to this provision may be made by the Air Pollution Control Officer for the construction, maintenance, and/or repair of paved roadways and for the application of de-icing and traction materials for wintertime driving safety.

#### **PART 4.0 ADMINISTRATIVE REQUIREMENTS**

##### **4.1 Correction of Condition:**

If the Air Pollution Control Officer documents that a person is in non-compliance with any of the provisions contained in Subsection 3.1, he will notify the person of that fact and specify a period of time in which the person must achieve compliance. Failure to comply within 24 hours or as the time determined by the Air Pollution Control Officer constitutes grounds for a Notice of Violation (NOV) citation per the District Enforcement Policy.

##### **4.2 Remedial Action:**

The Air Pollution Control Officer, after proper notice, may enter upon any real property where dust is being generated and take such remedial and corrective action as he deems necessary.

##### **4.3 Costs:**

Any costs incurred in connection with any remedial or corrective action taken by the Air Pollution Control Officer, pursuant to this section, shall be assessed against the owner of the property involved. Failure to pay the full amount of such incurred costs shall result in a lien against the property. The lien shall remain in effect until all costs have been fully paid, which may include, but are not limited to, cost of collection and reasonable attorney fees.

Adopted 5/11/94

**CONTRACTOR/SUBCONTRACTOR  
STORM WATER POLLUTION PREVENTION PLAN  
CERTIFICATION FORM**

Project Name: \_\_\_\_\_

Contractor/Subcontractor Name: \_\_\_\_\_

Contractor/Subcontractor Address: \_\_\_\_\_

\_\_\_\_\_

I have reviewed the project Storm Water Pollution Prevention Plan. I understand all of the conditions and requirements therein and I agree to construct this project in accordance with those requirements.

Authorized Representative for Contractor/Subcontractor:

\_\_\_\_\_  
(Please Print Name)

\_\_\_\_\_  
Title

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_



### LIST OF SUBCONTRACTORS

The general contractor awarded the construction contract shall complete the following list. The general contractor and all subcontractors shall complete the corresponding certification form.

Subcontractor	Contact Person and Phone #	Scope of Work	SWPPP Reviewed Y/N
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			



*Notice of Non-Compliance  
with Project SWPPP*

The District has determined that the activities described below constitute a violation of the Stormwater Pollution Prevention Plan (SWPPP) for the subject project. The Contractor shall take immediate steps to correct the problem and bring the project into compliance with the SWPPP.

Project: \_\_\_\_\_

Contractor: \_\_\_\_\_

Location of Violation: \_\_\_\_\_

Date of Violation: \_\_\_\_\_ Date of Notice: \_\_\_\_\_

Description of Violation - Attach Photographs Documenting Violation and Note Applicable BMPs:

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Actions to be Taken by the CONTRACTOR

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Written By:

\_\_\_\_\_

For the DISTRICT

\_\_\_\_\_

Title

Acknowledged By:

\_\_\_\_\_

For the CONTRACTOR

\_\_\_\_\_

Title

## SECTION 01575 - WASTE MATERIAL DISPOSAL

### PART 1 – GENERAL

Summary

Section Includes

Requirements for disposal of all surplus excavated or other material not incorporated into the Work.

Related Requirements

Section 01300 – Submittals

Section 01560 – Temporary Environmental Controls

Section 02100 – Demolition

Section 02200 – Earthwork

Section 02240 – Excavating, Trenching and Backfilling

### MEASUREMENT AND PAYMENT

Except as otherwise provided herein, all costs incurred by the CONTRACTOR in complying with requirements of this section of the Technical Specifications shall be included in the Lump Sum Bid or the unit prices for the various items of Work listed in the Bid Forms.

### SUBMITTALS

Submit in accordance with Section 01300 – Submittals

Waste Management Plan (Plan)

Draft Waste Management Plan: Within 10 calendar days after receipt of Notice of Award of Bid, or prior to any waste removal, whichever occurs sooner, the CONTRACTOR shall submit to the DISTRICT a Draft Waste Management Plan. The Draft Plan shall contain the following:

Analysis of the proposed Work site waste to be generated, including types and quantities.

Landfill options: The name of the landfill(s) where trash will be disposed of, the applicable landfill tipping fee(s), and the projected cost of disposing of all Project waste in the landfill(s).

Alternatives to Landfilling: A list of each material proposed to be salvaged, reused, or recycled during the course of the Project, the proposed on-site use or the proposed local market for each material, and the estimated net cost savings or additional costs resulting from separating and recycling (versus landfilling) each material. "Net"

means that the following have been subtracted from the cost of separating and recycling:

Revenue from the sale of recycled or salvaged materials.

Landfill tipping fees saved due to diversion of materials from the landfill.

Final Waste Management Plan: Once the DISTRICT has determined which of the recycling options addressed in the draft Waste Management Plan are acceptable, the CONTRACTOR shall submit, within 10 calendar days a Final Waste Management Plan. The Final Waste Management Plan shall contain the following:

Analysis of the proposed Work site waste to be generated, including types and quantities.

Landfill options: The name of the landfill(s) where trash will be disposed of.

Alternatives to Landfilling: A list of the waste materials from the Project that will be separated for reuse, salvage, or recycling.

## **PART 2 – PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION**

### **Plan Implementation**

Manager: The CONTRACTOR shall designate an on-site party (or parties) responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the Project.

Distribution: The CONTRACTOR shall distribute copies of the Waste Management Plan to the Job Site Foreman, each Subcontractor, and the DISTRICT.

Instruction: The CONTRACTOR shall provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.

Separation facilities: The CONTRACTOR shall lay out and label a specific area to facilitate separation of materials for potential recycling, salvage, reuse, and return. Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials.

Hazardous wastes: Hazardous wastes shall be separated, stored, and disposed of according to regulations.

## **SITE MAINTENANCE**

Keep work area, site, and adjacent properties free from accumulations of waste materials, rubbish, and windblown debris resulting from CONTRACTOR's operations.

Provide on-site containers for collection of waste materials, debris, and rubbish. Periodically remove waste from the site.

Do not use the Town of Truckee's or DISTRICT waste containers for construction waste.

Dispose daily of all flammable, hazardous, and toxic waste materials. Dispose of trash and debris in compliance with governing codes, ordinances, regulations, and anti-pollution laws.

#### **DISPOSAL OF SURPLUS EXCAVATED MATERIAL**

All excavated material not required for backfill shall be removed from the site as the Work progresses.

Legal disposal sites shall be approved by the DISTRICT prior to use by the CONTRACTOR. The disposal site may be inspected by the DISTRICT during the dumping of waste materials.

**-END OF SECTION-**

## SECTION 01600 - PRODUCTS, MATERIALS, EQUIPMENT AND SUBSTITUTIONS

### PART 1 -- GENERAL

#### 1.1 DEFINITIONS

- A. The word "Products," as used herein, is defined to include purchased items for incorporation into the Work, regardless of whether specifically purchased for the Project or taken from CONTRACTOR's stock of previously purchased Products.
- B. The word "Materials," is defined as Products which must be substantially cut, shaped, worked, mixed, finished, refined, or otherwise fabricated, processed, installed, or applied to form units of Work.
- C. The word "Equipment" is defined as Products with operational parts, regardless of whether motorized or manually operated, and particularly including Products with service connections (wiring, piping, and other like items).
- D. Definitions given in this section are not intended to negate the meaning of other terms used in the Contract Documents, including "specialties," "systems," "structure," "finishes," "accessories," "furnishings," special construction," and similar terms, which are self-explanatory and have recognized meanings in the construction industry.
- E. Neither "Products" nor "Materials" nor "Equipment" includes machinery and equipment used for preparation, fabrication, conveying and erection of the WORK.

#### 1.2 QUALITY ASSURANCE

- A. **Source Limitations:** To the greatest extent possible for each unit of Work, the CONTRACTOR shall provide Products, Materials, and Equipment of a singular generic kind from a single source.
- B. **Compatibility of Options:** Where more than one choice is available as options for CONTRACTOR's selection of a Product, Material, or Equipment, select an option which is compatible with other Products, Materials, or Equipment. Compatibility is a basic general requirement of Product, Material and Equipment selections.

#### 1.3 PRODUCT DELIVERY AND STORAGE

- A. The CONTRACTOR shall deliver and store the WORK in accordance with manufacturer's written recommendations and by methods and means that will prevent damage, deterioration, and loss including theft. Delivery schedules shall be controlled to minimize long-term storage of Products at Site and overcrowding of construction spaces. In particular, ensure coordination to ensure minimum holding or storage times for flammable, hazardous, easily damaged, or sensitive Materials to deterioration, theft, and other sources of loss.

#### 1.4 TRANSPORTATION AND HANDLING

- A. Products shall be transported by methods to avoid damage and shall be delivered in undamaged condition in manufacturer's unopened containers and packaging.
- B. The CONTRACTOR shall furnish Equipment and personnel to handle Products, Materials, and Equipment, including those provided by DISTRICT, by methods to prevent soiling and damage.
- C. The CONTRACTOR shall provide any additional protection necessary during handling to prevent marring and otherwise damaging Products, packaging, and surrounding surfaces.

#### 1.5 STORAGE AND PROTECTION

- A. Products shall be stored in accordance with manufacturer's written instructions and with seals and labels intact and legible. Sensitive Products shall be stored in weather-tight climate controlled enclosures and temperature and humidity ranges shall be maintained within tolerances required by manufacturer's recommendations.
- B. For exterior storage of fabricated Products, Products shall be placed on sloped supports above ground. Products subject to deterioration shall be covered with impervious sheet covering and ventilation shall be provided to avoid condensation.
- C. Loose granular materials shall be stored on solid flat surfaces in a well-drained area and shall be prevented from mixing with foreign matter.
- D. Storage shall be arranged to provide access for inspection. Periodically inspect to assure Products are undamaged and are maintained under required conditions.
- E. Storage shall be arranged in a manner to provide access for maintenance of stored items and for inspection.

#### 1.6 MAINTENANCE OF STORAGE

- A. Stored Products shall be periodically inspected on a scheduled basis. Maintain a log of inspections and make the log available on request.
- B. The CONTRACTOR shall comply with manufacturer's Product storage requirements and recommendations.
- C. The CONTRACTOR shall maintain manufacturer-required environmental conditions continually.
- D. The CONTRACTOR shall ensure that surfaces of Products exposed to the elements are not adversely affected and that weathering of finishes does not occur.
- E. For mechanical and electrical Equipment, the CONTRACTOR shall provide a copy of the manufacturer's service instructions with each item and the exterior of the package shall contain notice that instructions are included.

#### 1.7 PROPOSED SUBSTITUTIONS OR "OR-EQUAL" ITEM

- A. Whenever materials or equipment are indicated in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the naming of the item is intended to establish the type, function, and quality required. If the name is followed by the words "or equal" indicating that a substitution is permitted, materials or equipment of other suppliers may be accepted if sufficient information is submitted to allow the DISTRICT to determine that the material or equipment proposed is equivalent or equal to that named, subject to the following requirements:
  1. The burden of proof as to the type, function, and quality of any such substitution product, material or equipment shall be upon the CONTRACTOR.
  2. The DISTRICT will be the sole judge as to the type, function, and quality of any such substitution and the DISTRICT's decision shall be final.
  3. The DISTRICT may require the CONTRACTOR to furnish additional data about the proposed substitution.
  4. The DISTRICT may require the CONTRACTOR to furnish a special performance warranty or other surety with respect to any substitution.
  5. Acceptance by the DISTRICT of a substitution item shall not relieve the CONTRACTOR of the responsibility for full compliance with the Contract Documents and for adequacy of the substitution.

6. The CONTRACTOR shall be responsible for resultant changes including design and construction changes resulting from the changes which the accepted substitution requires in the CONTRACTOR's WORK, the WORK of its Subcontractors and of other contractors.
- B. If the name of a proprietary item or the name of a particular Supplier is not followed by the words "or equal", substitutions are not allowed and the specified product shall be furnished by the CONTRACTOR with the following exceptions:
1. In the event that a named Supplier is no longer doing business under the name indicated, the specified product from the legal successors to the named Supplier shall be furnished.
  2. In the event that a named product is no longer available from the named Supplier due to acquisition or sale of the given product line, but the product is available from another Supplier, the CONTRACTOR shall provide the named product. In such cases, the CONTRACTOR shall submit a Substitution Request Form and shall include certification from the Supplier that product being supplied is materially and functionally identical to the product named in the Contract Documents.
  3. In the event that a named product is no longer available from the named Supplier or any other Supplier, the CONTRACTOR shall notify the DISTRICT in writing and the DISTRICT shall identify suitable substitute products. The CONTRACTOR shall provide one of the suitable substitute products.
- C. The procedure for review of proposed substitutions by the DISTRICT will include the following:
1. If the CONTRACTOR wishes to provide a substitution item, make written application to the DISTRICT on the "Substitution Request Form."
  2. Unless otherwise provided by law or authorized in writing by the DISTRICT the "Substitution Request Form(s)" shall be submitted within the 35-day period after Notice to Proceed.
  3. Wherever a proposed substitution item has not been submitted within said 35-day period, or wherever the submission of a proposed substitution material or equipment has been judged to be unacceptable by the DISTRICT, the CONTRACTOR shall provide the material or equipment indicated in the Contract Documents.
  4. The CONTRACTOR shall certify that the proposed substitution will perform adequately the functions and achieve the results called for by the general design, and be similar and of equal substance to that indicated, and be suited to the same use as that indicated.
  5. The DISTRICT will evaluate each proposed substitution within a reasonable period of time.
  6. As applicable, no shop drawing submittals shall be made for a substitution item nor shall any substitution item be ordered, installed, or utilized without the DISTRICT'S prior written acceptance of the CONTRACTOR'S "Substitution Request Form."
  7. The DISTRICT will record the time required by the DISTRICT in evaluating substitutions and in making changes by the CONTRACTOR in the Contract Documents occasioned thereby.
- D. The CONTRACTOR's application using the "Substitution Request Forms" shall contain the following statements and information which will be considered by the DISTRICT in evaluating the proposed substitution:

1. The evaluation and acceptance of the proposed substitution shall not prejudice the CONTRACTOR's achievement of substantial completion on time.
  2. Whether or not acceptance of the substitution for use in the WORK will require a change in any of the Contract Documents to adapt the design to the proposed substitution.
  3. Whether or not incorporation or use of the substitution in connection with the WORK is subject to payment of any license fee or royalty.
  4. Information in the substitution request shall be organized in the format required for submittals as described in Section 01300-Contractor Submittals. Non-compliant substitution requests will not be reviewed.
  5. All variations of the proposed substitution from the items originally indicated shall be identified.
  6. Available maintenance, repair, and replacement service shall be indicated. The manufacturer shall have a local service agency (within 120 miles of the Site) which maintains properly trained personnel and adequate spare parts and is able to respond and complete repairs within 24 hours.
  7. Itemized estimate of all costs that will result directly or indirectly from acceptance of such substitution, including cost of redesign and claims of other contractors affected by the resulting change.
- E. Without any increase in cost to the DISTRICT, the CONTRACTOR shall be responsible for and pay all costs in connection with proposed substitutions and of inspections and testing of equipment or materials submitted for review prior to the CONTRACTOR's purchase thereof for incorporation in the WORK, whether or not the DISTRICT accepts the proposed substitution or proposed equipment or material. The CONTRACTOR shall reimburse the DISTRICT for the charges of the DISTRICT, and other authorized representatives for evaluating each proposed substitution and costs for any additional inspection caused by the substitution.

**PART 2 -- PRODUCTS (Not Used)**

**PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**



# Substitution Request Form

Project: \_\_\_\_\_ Date: \_\_\_\_\_

Specified Item:

Section	Page	Paragraph	Description
Proposed Substitution: _____			
_____			

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of the request. Applicable portions of the data are clearly identified.

The undersigned states that the following paragraphs, unless modified on attachments, are correct:

1. The proposed substitution does not affect dimensions shown on Drawings and will not require a change in any of the Contract Documents.
2. The undersigned will pay for changes to the design, including engineering design, detailing, and construction costs caused by the request substitution which is estimated to be \$\_\_\_\_\_.
3. The proposed substitution will have no adverse effect on other contractors, the construction schedule (specifically the date of substantial completion), or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.
5. The incorporation or use of the substitute in connection with the work is not subject to payment of any license fee or royalty.

The undersigned further states that the function, appearance, and quality of the Proposed Substitution are equivalent or superior to the Specified item.

Submitted by **CONTRACTOR:** \_\_\_\_\_ Reviewed by **DISTRICT:** \_\_\_\_\_

Accepted       Accepted as Noted

Not Accepted       Received too Late

Signature: \_\_\_\_\_ By \_\_\_\_\_

Firm: \_\_\_\_\_ Title \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

Attachments: \_\_\_\_\_

## SECTION 01700 - PROJECT CLOSEOUT

### PART 1 -- GENERAL

#### 1.1 FINAL CLEANUP

- A. The CONTRACTOR shall promptly remove from the vicinity of the completed work, all rubbish, unused materials, concrete forms, construction equipment, and temporary structures and facilities used during construction. Final Acceptance of the Work by the DISTRICT will be withheld until the CONTRACTOR has satisfactorily complied with the requirements for final cleanup of the project site and the requirements below.

#### 1.2 COMPLETION PROCEDURES

- A. When the CONTRACTOR believes Substantial Completion has been achieved, request in writing to the DISTRICT that Substantial Completion be recognized as having been achieved and request that the DISTRICT issue a Certificate of Substantial Completion. Prior to making such a request, the CONTRACTOR must have:
  - 1. Completed all WORK necessary for the safe, proper, and complete use or operation of the Project.
  - 2. Prepared a CONTRACTOR-generated punch list for submission with the request for issuance of a Certificate of Substantial Completion.
  - 3. Submitted and received acceptance of accurate record drawings for all WORK completed to date.
  - 4. Submitted and received acceptance of all specified warranties, bonds and guarantees.
- B. Upon receipt of the request from the CONTRACTOR, the DISTRICT will review the request, the WORK and the above requirements to determine whether the CONTRACTOR has achieved Substantial Completion. If this review fails to support Substantial Completion, the DISTRICT will notify the CONTRACTOR in writing, citing the reasons for rejection. If the DISTRICT determines the CONTRACTOR has reached Substantial Completion, the following procedures will be followed:
  - 1. The DISTRICT will review the WORK and the CONTRACTOR'S punch list to ensure that all deficiencies are noted on a final punch list.

2. The DISTRICT will schedule and conduct a walk-through of the Project with the CONTRACTOR for the purpose of formally reviewing the WORK, the final punch list, and the readiness of the WORK for use. Any additional items noted during the walk-through will be added to the punch-list.
3. Upon completion of the walk-through, provided that the walk-through has verified that the WORK is in fact ready for use for its intended purpose, the Project will be considered Substantially Complete. The DISTRICT will issue a letter certifying the date of Substantial Completion to the CONTRACTOR.

C. Final Completion will be deemed to have occurred when all WORK is completed including the following:

1. All final punch list items have been corrected, signed off by the CONTRACTOR and the DISTRICT during a final walk-through.
2. All updates to the record drawings have been made.
3. Demobilization and site clean-up are complete.
4. All facilities and/or equipment have been properly demonstrated to be functioning as required.
5. The CONTRACTOR has furnished to the DISTRICT, releases from all parties who are entitled to claims against the subject project, property, or improvement pursuant to the provisions of law.
6. All Final Submittals shall be made as noted herein.

### 1.3 CLOSEOUT PROCEDURE

A. The DISTRICT and the CONTRACTOR shall meet and resolve all outstanding issues including:

1. Claims and adjustments for time or costs.
2. Procedures for handling warranty issues.

B. A Final Change Order shall be processed, if required. Final payment and close out procedures shall comply with all requirements of the Contract Documents.

### 1.4 FINAL SUBMITTALS

- A. Prior to requesting final payment, the CONTRACTOR shall obtain and submit the following items to the DISTRICT:
  - 1. Written warranties and guarantees, where required.
  - 2. Completed record drawings.
  - 3. Certificates of inspection and acceptance by local governing agencies having jurisdiction.
  - 4. Release of liens or release of claims forms submitted by all Subcontractors and Suppliers.

#### 1.5 MAINTENANCE AND WARRANTY

- A. Comply with the maintenance and warranty requirements contained in the Contract Documents.
- B. Replacement of earth fill or backfill, where it has settled below the required finish elevations, shall be considered as a part of such required repair work, and any repair or resurfacing which becomes necessary by reason of such settlement shall likewise be considered as a part of such required repair work unless the CONTRACTOR shall have obtained a statement in writing from the affected private authority or public agency releasing the DISTRICT from further responsibility in connection with such repair or resurfacing.
- C. Make all warranty repairs and replacements promptly upon receipt of written order from the DISTRICT. If the CONTRACTOR fails to make such repairs or replacements promptly, the DISTRICT reserves the right to do the WORK and the CONTRACTOR and his surety shall be liable to the DISTRICT for the cost thereof.

#### **PART 2 -- PRODUCTS (Not Used)**

#### **PART 3 -- EXECUTION (Not Used)**

**- END OF SECTION -**

# **ELECTRIC UTILITY CONSTRUCTION SYSTEM HARDENING PROJECT - 2026**

## **DIVISION 2**

## **EARTHWORK**

## **SECTION 02100 - SITE PREPARATION**

### **PART 1 – GENERAL**

1. The WORK of this Section includes measures required during the CONTRACTOR's initial move onto the Site to protect existing fences, houses, and associated improvements, streets, and utilities downslope of construction areas from damage due to boulders, trees, or other objects dislodged during the construction process.
2. **SITE INSPECTION**  
Prior to moving onto the Site, the CONTRACTOR shall inspect the Site conditions and review maps of the utility routes, and documents delineating the DISTRICT's property and right-of-way lines.

### **PART 2 – PRODUCTS (NOT USED)**

### **PART 3 – EXECUTION**

#### **SITE ACCESS**

The CONTRACTOR shall develop any necessary access to the Site, including access barriers to prohibit entry of unauthorized persons.

Utility Interference: Where existing utilities interfere with the WORK, the CONTRACTOR shall notify the utility owner and the DISTRICT before proceeding.

#### **SITE CONDITIONS**

- A. The CONTRACTOR shall promptly notify the DISTRICT if any of the following conditions are encountered: Materials that the CONTRACTOR believes may be hazardous waste, as defined in Section 25117 of the California Health and Safety Code, or that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing law.
- B. Subsurface of latent physical conditions at the site differing from those indicated.
- C. Unknown physical conditions at the site of any unusual nature, materially different from those normally encountered and generally recognized as inherent in the work of the character provided for in the Contract Documents.
- D. The DISTRICT shall promptly investigate, and determine whether the conditions do materially differ, do involve hazardous waste, and impact the CONTRACTOR's cost and time required to complete the WORK required by the Contract Documents. If it is determined that an increase or decrease in the CONTRACTOR's cost or time required is justified, the DISTRICT will issue a change order in accordance with the procedures described in the Contract Documents.
- E. In the event that a dispute arises between the DISTRICT and the CONTRACTOR, as to whether the conditions do materially differ, do involve hazardous waste, or do impact CONTRACTOR's cost and time required to complete the WORK, the CONTRACTOR shall not be excused from any scheduled milestone or completion date provided by the Contract Documents, but shall proceed with all WORK required by the Contract Documents. The CONTRACTOR shall retain any and all

rights provided either by contract or by law that pertain to the resolution of disputes and protests between contracting Parties.

## **EROSION CONTROL**

- A. Prior to commencing any excavation activities, the CONTRACTOR shall implement erosion control measures to prevent the erosion and transport of sediment from the Project site. The CONTRACTOR is referred to Section 01560 – Temporary Environmental Controls for more information regarding erosion control.

## **CLEARING, GRUBBING, AND STRIPPING**

- A. Construction areas shall be cleared of grass and weeds to at least a depth of six inches and cleared of structures, pavement, sidewalks, concrete or masonry debris, trees, logs, upturned stumps, loose boulders, and any other objectionable material of any kind which would interfere with the performance or completion of the WORK, create a hazard to safety, or impair the subsequent usefulness of the WORK, or obstruct its operation. Loose boulders within 10 feet of the top of cut lines shall be relocated and incorporated in landscaping or removed from the Site.
- B. Topsoil shall be stripped to a depth of 8 inches and stockpiled in a manner that will not interfere with construction. Stockpiled topsoil shall be used as final backfill in areas not to be paved. Shrubs, bushes, and minor vegetation shall be ground or shipped to a mulching consistency and mixed with the stripped soils. Trees and stumps shall be removed from the site and disposed of in an appropriate manner. Stockpiled topsoil shall be stabilized by tackifiers or protected with tarpaulins to prevent stockpiles from creating a dust hazard or eroding during rain events.
- C. Within the limits of clearing, the areas below the natural ground surface shall be grubbed to a depth necessary to remove all stumps, roots, buried logs, and all other objectionable material. All objectionable material from the clearing and grubbing process shall be removed from the Site and wasted in approved safe locations.
- D. Only trees, plants, and shrubs that are designated for removal shall be removed. The removal of any other trees, shrubs fences, or other improvements, either inside of outside of rights-of-way, if necessary for the CONTRACTOR's choice of means and methods, shall be arranged with the owner of the property, and shall be removed and replaced, at no additional cost to the DISTRICT.
- E. Trees, plants, and shrubs that are not to be removed, shall be protected from injury and damage. Any such trees, plants, or shrubs that are removed or damaged due to the negligence of the CONTRACTOR, shall be replaced by the CONTRACTOR at no additional cost to the DISTRICT. Such replacement shall be to the satisfaction of the DISTRICT and the owner of said trees, plants, and shrubs.
- F. Burning of waste debris shall conform to all applicable local regulations. Prior to any intended burning, the CONTRACTOR shall furnish to the DISTRICT, a copy of the CONTRACTOR's burning permit, as issued by the local agency having jurisdiction.

- G. Any materials wrongfully removed from the Site shall be paid for by the CONTRACTOR. The cost of any such items removed shall be agreed upon by the owner and the CONTRACTOR. However, if such an agreement is not reached, the DISTRICT shall determine the value of the items and that amount shall be withheld from the next progress payment due.

**-END OF SECTION**

## SECTION 02200 - EARTHWORK

### PART 1 – GENERAL

#### 1. General

##### Section Includes

Excavating, filling, backfilling, and compaction for structures

Excavation and replacement of unsuitable soils when directed by DISTRICT

Placing and compacting crushed surfacing

Disposal of waste materials

Dewatering

CONTRACTOR's quality control testing

##### *Related Requirements*

Section 01010 – Summary of Work

Section 01300 – Submittals

Section 01350 – Health and Safety

Section 01410 – Independent Testing Laboratory Services

Section 01540 – Traffic Control

Section 01560 – Temporary Environmental Controls

Section 02100 – Site Preparation

Section 02220 – Aggregate Materials

Section 02240 – Excavating, Trenching and Backfilling

Section 02600 – Storm Drainage Systems

Section 02740 – Asphalt Concrete Paving

- A. General earthwork shall include the necessary preparation and earthwork for the Site. This includes but is not limited to, the removal and disposal of debris and unsuitable material; site clearing; stripping; excavation and preparation of sub-grades; placement and compaction of on-site and imported fill; the export of excess material; grading; all necessary sheeting, shoring, and protection work; pumping and de-watering as necessary or required; protection of adjacent construction; backfilling; and other appurtenant work. This includes all necessary construction permits to complete the required earthwork.
- B. All Earthwork shall be constructed and maintained under the supervision of a competent person.
- C. The CONTRACTOR shall obtain all permits required to complete the earthwork other than the DISTRICT supplied permits. This may include dust permits, dewatering for foundation placement, etc. It will be the CONTRACTOR's responsibility to determine if the Town of Truckee, Nevada County, the State of California, or any other applicable regulatory body requires earthwork specific construction permits.
- D. The CONTRACTOR shall perform all earthwork indicated and required for the construction of the WORK, complete and in place, in accordance with the Contract Documents.

- E. The CONTRACTOR's attention is directed to the provisions for "Shoring and Bracing Drawings" in Section 6705 of the California Labor Code. The CONTRACTOR, prior to beginning any section of trench or structure excavation requiring shoring shall develop a detailed plan showing design of all shoring, bracing, sloping, of the sides of excavation, or other provisions for worker protection against the hazard of caving ground during excavation of such trenches or structure excavation. If such plan varies from the shoring system standards established in the Construction Safety Orders of the State of California, such alternatives shall be prepared by a civil or structural engineer licensed in the State of California.

## NOTIFICATIONS TO THE CONTRACTOR

- A. *The CONTRACTOR is hereby notified that investigations of subsurface soil conditions within the immediate Project Site have not been conducted. The CONTRACTOR is advised that subsurface conditions may vary throughout the Project Site. The DISTRICT makes no guarantee, either written or implied, that materials obtained on site are suitable for use in the WORK. The CONTRACTOR shall not be entitled to any additional compensation in the event that materials obtained on site are not suitable for use in the WORK.*
- B. *The CONTRACTOR is hereby notified that investigations of subsurface ground water conditions within the immediate Project Site have not been conducted in conjunction with the preparation of these Contract Documents. The CONTRACTOR shall be responsible for removal and exclusion of groundwater as necessary to construct the Work in accordance with the Contract Documents. The CONTRACTOR shall not be entitled to any additional compensation in the event that groundwater is encountered.*

## 1. REFERENCES

### Definitions

Greenbook shall mean the latest edition of the Standard Specifications for Public Works Construction also known as the "Greenbook".

CalTrans Standard Specification refers to the Standard Specifications for the State of California Department of Transportation (CalTrans).

Excavation consists of removal of material of whatever nature, including boulders and rock, or structural foundation depths indicated on the Drawings, and subsequent stockpiling or disposal of materials removed.

Unauthorized Excavation consists of removal of materials beyond indicated subgrade and trench bottom elevations or dimensions without specific direction of DISTRICT.

Over-excavation consists of excavation, as defined above, below finished grade in areas and to depths indicated on the Drawings, proof-rolling and compaction of the exposed subgrade, and reinstalling and re-compaction of the removed material.

Subgrade is the undisturbed earth or the compacted soil layer defined on the Drawings as the finished constructed grade or upon which structural foundations or pavement materials are subsequently placed, or the exposed soil layer at the bottom of over-excavation areas and utility trenches.

Structures are buildings, foundations, slabs, vaults, curbs, sidewalk, or other man-made stationary features occurring above or below ground surface.

Grading is the redistribution of soils, primarily through the use of motorized construction equipment such as bulldozers, scrapers, graders, loaders and the like, as well as hand work, to create the finished surface elevations and grades indicated on the Drawings.

Subbase consists of fill and/or backfill material placed and compacted over subgrade and under roadways as part of road construction.

Acceptable Material includes material that meets the requirements of Soil Materials defined herein.

Unsuitable Material is material below the limits of excavation that is determined by the DISTRICT to be not stable enough or otherwise unsuitable for design loads or the intended usage of the completed Project. Unsuitable material may include silts, clays, boulders, rocks, construction debris placed during earlier fill operations, or organic/woody debris.

Processing is the removal of oversized material or deleterious debris. Also, selective use of excavated materials to be used where suitable.

- A. CONTRACTOR shall inform and satisfy itself as to the character, quantity, and distribution of all material to be excavated. The CONTRACTOR is advised that subsurface conditions may vary throughout the project site. The DISTRICT makes no guarantee, either written or implied, that materials obtained on site are suitable for use in the Work. The CONTRACTOR shall not be entitled to any additional compensation in the event that materials obtained on site are not suitable for use in the Work.

## **2. SUBMITTALS**

- A. Submit in accordance with Section 01300 – Submittals.
- B. CONTRACTOR's soils testing and inspection service: Qualifications.
- C. Manufacturer's product information for geotextile products
- D. Field Test Reports: Submit copies of all of CONTRACTOR's testing and inspection service test reports.
- E. Test reports on all material samples
- F. Field reports, in-place soil density tests
- G. One optimum moisture-maximum density curve for each type of material from each source

## **3. QUALITY ASSURANCE**

- A. Codes and Standards: CONTRACTOR shall perform Work in compliance with applicable requirements of governing authorities having jurisdiction and referenced most recent codes and standards, and bear sole responsibility for penalties imposed for noncompliance.
- B. CONTRACTOR shall have ultimate responsibility for quality control of the Work, including quality control at the source of imported materials, to insure that the materials comply with the gradations and material specifications described hereinafter and that placement and compaction comply with all requirements.
- C. CONTRACTOR shall employ a qualified testing and inspection service to provide the necessary quality control testing at the source, and, at CONTRACTOR's option, in the field. All tests shall be by the most recent standards and methods for the designated tests. CONTRACTOR shall maintain and submit accurate records of all source and field quality control testing.

## **4. CONTRACT CONSIDERATIONS AND FIELD CONDITIONS**

- A. Weather Limitations: Construct only when the weather conditions do not detrimentally affect the quality of the finished Work. Any portion of embankments, excavations or subgrade that are damaged by the effects of freezing temperatures, rain, wind, or other weather conditions during any phase of the construction shall be aerated if excessively wet, moistened if excessively dry, reshaped and re-compacted to conform to the requirements of the Specifications without additional cost to the DISTRICT.
- B. The CONTRACTOR is hereby notified that investigations of subsurface groundwater conditions have not been conducted in conjunction with the preparation of these Contract Documents. The CONTRACTOR is further advised that subsurface groundwater conditions may vary throughout the project site. The CONTRACTOR shall be responsible for removal and exclusion of groundwater as necessary to construct the Work in accordance with the Contract Documents. The CONTRACTOR shall not be entitled to any additional compensation in the event that groundwater is encountered.
- C. Settlement or washing that may occur from the action of the elements or any other cause, prior to acceptance of the Work shall be repaired and grades reestablished to the elevations and slopes shown on the Drawings without additional cost to the DISTRICT.
- D. Call for utility locates by contacting the Underground Service Alert (USA North) at 1-800-227-2600 a minimum of two days before digging. If utilities are indicated to remain in place, provide adequate means of support and protection during earthwork operations.
- E. Should uncharted or incorrectly located piping or other utilities be encountered during excavation, consult DISTRICT immediately for direction. Cooperate with DISTRICT and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of DISTRICT and utility owner.
- F. Do not interrupt existing utilities serving facilities during business hours, except when permitted in writing by DISTRICT, and then only after acceptable temporary utility services have been provided if required by DISTRICT.
- G. Provide minimum 48-hour notice to DISTRICT and utility owner, and receive written notice to proceed before interrupting any utility.
- H. Coordinate with utility companies for shutoff of services if lines are active.
- I. Provide water for construction uses such as dust control and conditioning material to optimum moisture content.
- J. Protect any survey monuments as described in Section 01050 – Field Surveying.
- K. Temporary drains and drainage ditches shall be installed to intercept or direct surface water that may affect the condition of the Work.

## **PART 2 – PRODUCTS**

### **1. SUITABLE FILL AND BACKFILL MATERIAL REQUIREMENTS**

- A. **General:** Fill, backfill, and embankment materials shall be suitable selected or processed clean, fine earth, rock, or sand, free from grass, roots, brush, or other vegetation.

- B. **Suitable Materials:** Materials defined below are suitable materials and may be used in fills, backfilling, and embankment construction subject to the indicated limitations.
- C. Suitable materials may be obtained from on-site excavations, may be processed on-site materials, or may be imported. If imported materials are required by this Section or to meet the quantity requirements of the WORK, the CONTRACTOR shall provide the imported materials at no additional expense to the DISTRICT. The DISTRICT makes no guarantee, either written or implied, that materials obtained on site are suitable for use in the WORK.
- D. The following types of suitable materials are defined:
  - 1. Fill Materials, General: It is intended that the majority of the fill materials to be placed on this project shall meet the requirement of structural fill. The CONTRACTOR shall import structural fill materials as required to complete the grading work as detailed on the Drawings and as specified herein, if such materials is not available on-site.
  - 2. Structural Fill: All fill material to be placed within six feet of finished grade and within four feet below and ten feet either side of foundations or footings shall consist of structural fill. All materials used for structural fill shall be reasonably free of organic material, have a liquid limit less than 35, a plasticity index less than 12 and gradation requirements as follows:
 

<u>Sieve Size</u>	<u>Percent Passing (By Weight)</u>
3"	100
¾"	70-100
40	15-65
#200	10-25

Materials not meeting the above requirements may be suitable for use as structural fill at the discretion of the DISTRICT.
  - 3. Non-Structural Fill: Soils obtained from the excavation that do not meet the requirements of structural fill shall be removed from the Site by CONTRACTOR or placed in non-structural fill areas as approved by DISTRICT. The CONTRACTOR shall dispose of such materials in a manner acceptable to DISTRICT.

**PART 3 - EXECUTION**

**1. GENERAL**

- A. Trench Safety Systems shall be provided by CONTRACTOR per requirements of Cal OSHA.
- B. All excavation is unclassified and includes excavation to elevations indicated, regardless of character of materials and obstructions encountered.
- C. Perform earthwork in dry conditions.

- D. Unauthorized excavation, as well as remedial Work directed by the DISTRICT, shall be at CONTRACTOR's expense. Backfill and compact unauthorized excavation as specified for authorized excavations, unless otherwise directed by DISTRICT.
- E. Excavated material may contain oversize material and debris unsuitable for reuse in the Project. Some processing (screening, sifting, sorting, etc.) of excavated material may be required to remove these unsuitable elements. Unsuitable elements removed from excavation materials shall be disposed of off-site.
- F. At all times provide and maintain ample equipment and resources to remove and dispose of all water entering the Work and keep Work areas dry and free of frost or ice. CONTRACTOR shall be held responsible for the conditions of any sewers, drains, or other conduits or pipelines, which may be used for drainage purposes, and such pipes or conduits shall be cleaned and free from all sediment after construction.

## **2. SURVEY/STAKING/GRADING CONTROL**

- A. The CONTRACTOR shall provide all survey, setout and staking to accurately control the Work.

## **3. CONSTRUCTION DEWATERING**

- A. The CONTRACTOR shall provide construction dewatering as required during the Work.
- B. The CONTRACTOR shall remove and exclude water, including stormwater, groundwater, irrigation water, water from leaking pipes, and wastewater, from all excavations.
- C. Dewatering wells, well points, sump pumps, or other means shall be used to remove water and continuously maintain groundwater at a level at least two feet below the bottom of excavations.
- D. Water shall be removed and excluded until backfilling is complete and all field soils testing has been completed.

## **4. EXCAVATION**

- A. The CONTRACTOR shall understand the character, quantity and distribution of all material to be excavated. Should the CONTRACTOR excavate below the designated lines and grades without prior written permission from the DISTRICT, CONTRACTOR shall replace such excavation with suitable materials, in a satisfactory manner and condition, without additional cost to the DISTRICT.
- B. The DISTRICT shall have complete control over utilization of all excavated material and shall be the final authority in determining the suitability of excavated material to be used as embankment, backfill, or determined to be unsuitable material.
- C. Excavation of every description, classification, and of whatever substances encountered within the grading limits of the Project shall be performed to the lines and grades indicated on the plans.

- D. During the process of excavation, the CONTRACTOR shall maintain the grade in such condition that it will be drained at all times and install temporary drains and drainage ditches to intercept or direct surface water which may affect the progress or condition of the Work.
- E. Conditions of excessive moisture shall require that operations be temporarily suspended until drying weather permits use of the material or the materials are drained or aerated to optimum moisture content.
- F. Excavation of Unsuitable Materials: In cases where unstable material such as mud, muck, or highly organic material is encountered within the limits of the Work, the DISTRICT may direct the subgrade to be excavated below the grade shown on the Drawings and replaced with suitable material. Excavation and replacement with suitable materials shall only be performed where directed in writing by the DISTRICT.

## **5. ROCK EXCAVATION DEFINITION**

Rock Excavation ( $\geq 3'$  diameter) is defined as the removal and lawful disposal of any individual rock, boulder, or ledge material measuring three feet (3') or greater in any dimension, encountered during excavation activities. Rock Excavation shall be performed by power-operated hammers, rock saws, drilling and blasting, hydro-vac truck, or other appropriate rock excavation methods approved by the District.

### **Measurement & Payment**

- A. Unit of Measure: Payment for Rock Excavation will be made on a per hole basis for each excavation in which rock  $\geq 3'$  in diameter is encountered and requires removal, as verified by District personnel. Multiple boulders encountered within a single hole shall be considered part of that hole and compensated as one unit.
- B. Unit Price: The Contractor shall be compensated at the agreed unit cost per hole, which shall be full and complete compensation for furnishing all labor, materials, equipment, tools, and incidentals necessary to complete the work.
- C. No Additional Compensation: The Contractor SHALL NOT be entitled to any additional monies of compensation, including but not limited to:
  - 1. Stand-by time for crew members or equipment idled during the performance of rock excavation.
  - 2. Delays or inefficiencies associated with removal and disposal of rock.
- D. No Minimum Guarantee: The District does not guarantee the presence of rock  $\geq 3'$  in diameter. There is no minimum quantity of Rock Excavation.
- E. Verification: All Rock Excavation shall be coordinated with and approved by District personnel prior to execution. Contractor shall notify the District immediately upon encountering rock  $\geq 3'$  in diameter. The size, quantity, and location shall be documented by the District for payment purposes.

- F. District Option to Relocate: Upon encountering a rock  $\geq 3'$  in diameter, the District reserves the right to relocate the excavation hole or facility location in lieu of authorizing rock excavation and removal. In such cases, the Contractor shall proceed as directed by the District. If the District elects to relocate the hole, the Contractor will be compensated at the agreed Pole Hole unit rate x 2 in lieu of the Rock Excavation unit rate.
- G. *The CONTRACTOR shall remove and dispose of all excess excavated or unsuitable materials at a site selected by the CONTRACTOR and reviewed by the DISTRICT.*
- H. The CONTRACTOR shall obtain all required permits, landowner, and agency approvals for disposal of excess excavated or unsuitable materials and shall pay all costs associated with the removal and disposal.

## **6. PROTECTION**

- A. Protect persons, both on and off the site, from injury. Barricade temporary open excavations occurring as part of the Work with suitable fences and barriers and institute dust control measures as required in Section – 01560 Temporary Environmental Controls, and Section 02240 – Excavating, Trenching and Backfilling. Equip barriers with warning lights where necessary.
- B. Protect trees, shrubs, existing structures, fences, roads, utilities, monitoring wells, and other features that are to remain as part of the completed Project.
- C. Protect off-site property from damage caused by construction operations. Exercise particular care in preventing disturbed soils or other potential pollutants from entering any water course or adjoining property.
- D. Protect existing and new structures, utilities, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- E. Immediately repair at CONTRACTOR's cost all damage caused by construction work.

**-END OF SECTION-**

## SECTION 02900 – SITE REVEGETATION

### PART 1 – GENERAL

#### 1. THE REQUIREMENT

The CONTRACTOR shall perform site revegetation and appurtenant work, completed and in place, in accordance with the Contract Documents.

### PART 2 - PRODUCTS

#### 1. GENERAL

- A. All landscaping materials for soil conditioning, weed abatement, or planting shall be first-grade, commercial quality, and shall have certificates indicating the source of material, analysis, quality, or weight attached to each sack or container or furnished with each delivery.

#### 2. FERTILIZER

- A. Fertilizer shall be furnished in bags or other standard containers with name, weight, and guaranteed analysis of contents clearly marked thereon.
- B. Fertilizer shall be ammonium sulfate with percentages of nitrogen, phosphoric acid, and potash at 16-20-0. Fertilizers shall be uniform in composition, dry, and free flowing

#### 3. SEED MIXTURES

- A. Seed shall be mixed by the Supplier. Seed shall be fresh, clean, new-crop seed, composed of the following varieties mixed in the proportions by weight. Seed that has become wet, moldy, or otherwise damaged prior to use will not be accepted.
- B. For south and west facing areas, purity and germination percentage shall be as given below:
- C. For north and east facing areas, purity and germination percentage shall be as given below:
- D. All legumes shall be inoculated with the appropriate inoculant within 90 days prior to seeding.

### PART 3 - EXECUTION

#### 1. GENERAL

- A. Contour the Work area, staging areas, and other temporary construction sites to the original topography, except where otherwise required herein, as described in the SWPPP, shown on the Drawings, or as directed by the DISTRICT, in a timely manner. Include in the Project schedule submitted to DISTRICT the restoration and cleanup schedule for the Work area.

- B. Loosen surface soils (top 2 to 4 inches) heavily compacted during construction using a cultivator or similar device. No cultivation shall occur under trees.
- C. Replace stockpiled topsoil on the surface of the excavation. With replacement of topsoil, rock and natural plant debris shall be replaced in areas where such material was originally found to the degree practical.
- D. Contouring to natural grade shall be done without disruption of adjacent undisturbed areas. Sediment collected in any sediment traps shall be removed and deposited at a site where it will not erode back into a water course.
- E. Water bars, coconut-fiber matting, seeding, and any other temporary or permanent erosion control structures shall be installed as required and covered with topsoil where appropriate.
- F. Notify the DISTRICT a minimum of 7 days in advance of completing restoration in any given area (i.e. topsoil replacement and installation of permanent erosion control or landscaping).
- G. The landscape work shall not be performed at any time when it may be subject to damage from climatic conditions.
- H. Fertilizers, additives, seed, peat, etc., subject to moisture damage shall be kept dry in a weatherproof storage place.

2. **SEEDING**

- A. The soil shall be prepared before seeding. The CONTRACTOR shall prepare only enough ground that can be planted within 24 hours thereafter.
- B. Seeding shall not be done when wind velocity exceeds 10 mph or within 24 hours after rain.
- C. Seeding shall be done in accordance with the following procedure:
  - a. Seed shall be spread uniformly at the rates specified above;
  - b. Fertilizer shall be applied at a rate of 300 pounds per acre;
  - c. The area to be revegetated shall be covered with a fine layer of soil to a depth not greater than 1/4-inch;
  - d. Finally, all seeded areas shall be covered with a layer of clean, dry, pine needles at a rate of 0.1 pounds per square foot.

- END OF SECTION -

# **ELECTRIC UTILITY CONSTRUCTION SYSTEM HARDENING PROJECT - 2026**

## **Attachments**



# **ELECTRIC DEPARTMENT**

# **OVERHEAD CONSTRUCTION STANDARDS**

**October 15, 2020**

**Truckee Donner Public Utility District  
11570 Donner Pass Road – Truckee, CA - 96161**

**FRNP-WB™ Flame Resistant Non-Propagating Water Blocked Covered Conductor  
AAC XLP/FRXLP (15kv-35kv rated) (Patented Product)**

Conductor Size	Min. Number of Strands*	Stranding Type	Conductor Diameter	Conductor Shield Thickness	Inner Covering Thickness	Outer Covering Thickness	Finished Cable Diameter	Cable Weight	Rated Strength
AWG/kcmil	inches		inches	inches	inches	inches	lbs/kft	lbs	
<b>AAC Conductors-15kV</b>									
2	7	Round	0.292	0.015	0.075	0.075	0.62	191	1,112
1/0	7	Compact	0.336	0.015	0.075	0.075	0.67	238	1,791
2/0	7	Compact	0.376	0.015	0.075	0.075	0.71	274	2,259
3/0	7	Compact	0.423	0.015	0.075	0.075	0.75	319	2,736
4/0	7	Compact	0.475	0.015	0.075	0.075	0.81	374	3,447
4/0	18	Compact	0.475	0.015	0.075	0.075	0.81	374	3,618
266.8	18	Compact	0.537	0.015	0.075	0.075	0.87	442	4,473
336.4	18	Compact	0.603	0.015	0.075	0.075	0.93	524	5,535
397.5	18	Compact	0.659	0.015	0.075	0.075	0.99	595	6,399
477	35	Compact	0.722	0.015	0.075	0.075	1.05	686	7,524
556.5	18	Compact	0.780	0.020	0.075	0.075	1.13	798	8,775
556.5	35	Compact	0.780	0.020	0.075	0.075	1.13	798	8,946
636	35	Compact	0.835	0.020	0.075	0.075	1.19	887	10,260
715.5	58	Compact	0.897	0.020	0.080	0.080	1.27	1,000	11,790
750	58	Compact	0.908	0.020	0.080	0.080	1.27	1,022	12,150
795	35	Compact	0.932	0.020	0.080	0.080	1.30	1,084	12,510
795	58	Compact	0.932	0.020	0.080	0.080	1.30	1,084	12,870

Coordinate with TDPUD to contact manufacturer representative prior to purchasing tools.

TDPUD uses 15kV 397.5 AAC and #1/0 ACSR wire.

# FRNP-WB™ Flame Resistant Non-Propagating Water Blocked Covered Conductor ACSR XLP/FRXLP (15kv-35kv rated) (Patented Product)

Conductor Size	Number of Strands	Conductor Diameter	Conductor Shield Thickness	Inner Covering Thickness	Outer Covering Thickness	Finished Cable Diameter	Cable Weight	Rated Strength
AWG/kcmil	AL/Steel	inches	inches	inches	inches	inches	lbs/kft	lbs
<b>ACSR Conductors-15kV</b>								
4	6/1	0.250	0.015	0.075	0.075	0.58	175	1,767
2	6/1	0.316	0.015	0.075	0.075	0.65	227	2,707
1/0	6/1	0.398	0.015	0.075	0.075	0.73	304	4,161
2/0	6/1	0.447	0.015	0.075	0.075	0.78	357	5,035
3/0	6/1	0.502	0.015	0.075	0.075	0.83	418	6,289
4/0	6/1	0.563	0.015	0.075	0.075	0.89	495	7,932
266.8	18/1	0.609	0.015	0.075	0.075	0.94	525	6,536
266.8	26/7	0.642	0.015	0.075	0.075	0.97	601	10,573
336.4	18/1	0.684	0.015	0.075	0.075	1.01	611	8,246
336.4	26/7	0.720	0.015	0.075	0.075	1.05	718	13,395
336.4	30/7	0.741	0.015	0.075	0.075	1.07	788	16,971
397.5	18/1	0.743	0.015	0.075	0.075	1.07	694	9,443
397.5	24/7	0.772	0.015	0.075	0.075	1.10	781	13,775
397.5	26/7	0.783	0.015	0.075	0.075	1.11	819	15,485
477	24/7	0.846	0.015	0.075	0.075	1.18	905	16,340
477	26/7	0.858	0.015	0.075	0.075	1.19	950	18,525
477	30/7	0.883	0.015	0.075	0.075	1.21	1,048	22,610
556.5	18/1	0.879	0.020	0.075	0.075	1.23	930	13,015
556.5	24/7	0.914	0.020	0.075	0.075	1.26	1,052	18,810
556.5	26/7	0.927	0.020	0.075	0.075	1.28	1,106	21,375
636	18/1	0.940	0.020	0.075	0.075	1.29	1,035	14,915
636	26/7	0.990	0.020	0.075	0.075	1.34	1,234	23,940
750	26/7	1.077	0.020	0.08	0.08	1.44	1,429	29,782
795	26/7	1.108	0.020	0.08	0.08	1.47	1,540	29,925

Coordinate with TDPUD to contact manufacturer representative prior to purchasing tools.

TDPUD uses 15kV 397.5 AAC and #1/0 ACSR wire.

All values are nominal and subject to correction

1/0 ACSR Covered Conductor Charts

0F	Lengths	100	125	150	175	200	225	250
Tension		425	425	425	425	425	425	425
Sag		0' 11/12	1' 5/12	2' 0	2' 9/12	3' 7/12	4' 6/12	5' 7/12
20F	Lengths	100	125	150	175	200	225	250
Tension		400	400	400	400	400	400	400
Sag		0' 11/12	1' 6/12	2' 2/12	2' 11/12	3' 10/12	4' 10/12	5' 11/12
40F	Lengths	100	125	150	175	200	225	250
Tension		375	375	375	375	375	375	375
Sag		1' 0	1' 7/12	2' 3/12	3' 1/12	4' 1/12	5' 2/12	6' 4/12
60F	Lengths	100	125	150	175	200	225	250
Tension		350	350	350	350	350	350	350
Sag		1' 1/12	1' 8/12	2' 5/12	3' 4/12	4' 4/12	5' 6/12	6' 10/12
80F	Lengths	100	125	150	175	200	225	250
Tension		340	340	340	340	340	340	340
Sag		1' 1/12	1' 9/12	2' 6/12	3' 5/12	4' 6/12	5' 8/12	6' 1
100F	Lengths	100	125	150	175	200	225	250
Tension		300	300	300	300	300	300	300
Sag		1' 3/12	1' 1	2' 10/12	3' 11/12	5' 1/12	6' 5/12	7' 11/12

1/0 ACSR Covered Conductor Charts - Sag

0F	Lengths	100	125	150	175	200	225	250
Tension		280	280	280	280	280	280	280
Sag		1' 4/12	2' 1/12	3' 1/12	4' 2/12	5' 5/12	6' 11/12	8' 6/12
20F	Lengths	100	125	150	175	200	225	250
Tension		270	270	270	270	270	270	270
Sag		1' 5/12	2' 2/12	3' 2/12	4' 4/12	5' 8/12	7' 2/12	8' 10/12
40F	Lengths	100	125	150	175	200	225	250
Tension		260	260	260	260	260	260	260
Sag		1' 6/12	2' 3/12	3' 3/12	4' 6/12	5' 10/12	7' 5/12	9' 2/12
60F	Lengths	100	125	150	175	200	225	250
Tension		250	250	250	250	250	250	250
Sag		1' 6/12	2' 5/12	3' 5/12	4' 8/12	6' 1/12	7' 8/12	9' 6/12
80F	Lengths	100	125	150	175	200	225	250
Tension		225	225	225	225	225	225	225
Sag		1' 7/12	2' 8/12	3' 10/12	5' 2/12	6' 9/12	8' 7/12	10' 7/12
100F	Lengths	100	125	150	175	200	225	250
Tension		200	200	200	200	200	200	200
Sag		1' 11/12	2' 1	4' 3/12	5' 10/12	7' 7/12	9' 8/12	11' 11/12

397 AAC Covered Conductor Charts

0F	Lengths	100	125	150	175	200	225	250
	Tension	1650	1650	1650	1650	1650	1650	1650
	Sag	0' 5/12	0' 8/12	1' 0	1' 5/12	1' 10/12	2' 4/12	2' 10/12
20F	Lengths	100	125	150	175	200	225	250
	Tension	1400	1400	1400	1400	1400	1400	1400
	Sag	0' 6/12	0' 10/12	1' 2/12	1' 7/12	2' 1/12	2' 8/12	3' 4/12
40F	Lengths	100	125	150	175	200	225	250
	Tension	1200	1200	1200	1200	1200	1200	1200
	Sag	0' 7/12	1' 0	1' 5/12	1' 11/12	2' 6/12	3' 1/12	3' 11/12
60F	Lengths	100	125	150	175	200	225	250
	Tension	1050	1050	1050	1050	1050	1050	1050
	Sag	0' 8/12	1' 1/12	1' 7/12	2' 2/12	2' 10/12	3' 7/12	4' 5/12
80F	Lengths	100	125	150	175	200	225	250
	Tension	850	850	850	850	850	850	850
	Sag	0' 11/12	1' 5/12	2' 0	2' 8/12	3' 6/12	4' 5/12	5' 6/12
100F	Lengths	100	125	150	175	200	225	250
	Tension	650	650	650	650	650	650	650
	Sag	1' 2/12	1' 10/12	2' 7/12	3' 6/12	4' 7/12	5' 10/12	7' 2/12

397 AAC Covered Conductor Charts - Sag

0F	Lengths	100	125	150	175	200	225	250
	Tension	1100	1100	1100	1100	1100	1100	1100
	Sag	0' 8/12	1' 1/12	1' 6/12	2' 1/12	2' 8/12	3' 5/12	4' 3/12
20F	Lengths	100	125	150	175	200	225	250
	Tension	950	950	950	950	950	950	950
	Sag	0' 9/12	1' 3/12	1' 9/12	2' 5/12	3' 2/12	3' 1	4' 10/12
40F	Lengths	100	125	150	175	200	225	250
	Tension	875	875	875	875	875	875	875
	Sag	0' 10/12	1' 4/12	1' 11/12	2' 7/12	3' 5/12	4' 4/12	5' 4/12
60F	Lengths	100	125	150	175	200	225	250
	Tension	800	800	800	800	800	800	800
	Sag	0' 11/12	1' 5/12	2' 1/12	2' 10/12	3' 9/12	4' 9/12	5' 10/12
80F	Lengths	100	125	150	175	200	225	250
	Tension	600	600	600	600	600	600	600
	Sag	1' 3/12	1' 11/12	2' 9/12	3' 10/12	4' 1	6' 3/12	7' 9/12
100F	Lengths	100	125	150	175	200	225	250
	Tension	500	500	500	500	500	500	500
	Sag	1' 6/12	2' 4/12	3' 4/12	4' 7/12	5' 11/12	7' 7/12	9' 4/12

# Pole Setting Requirements

Minimum location pole depth is 7', 30" diameter.

ADS N-12 Dual Wall Pipe

Plain End, 30" Diameter (inner diameter), 20' lengths. 20' length to be cut into 3 equal lengths for pole hole wall shoring.

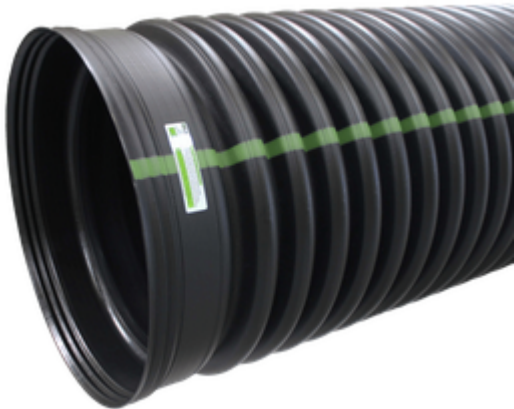
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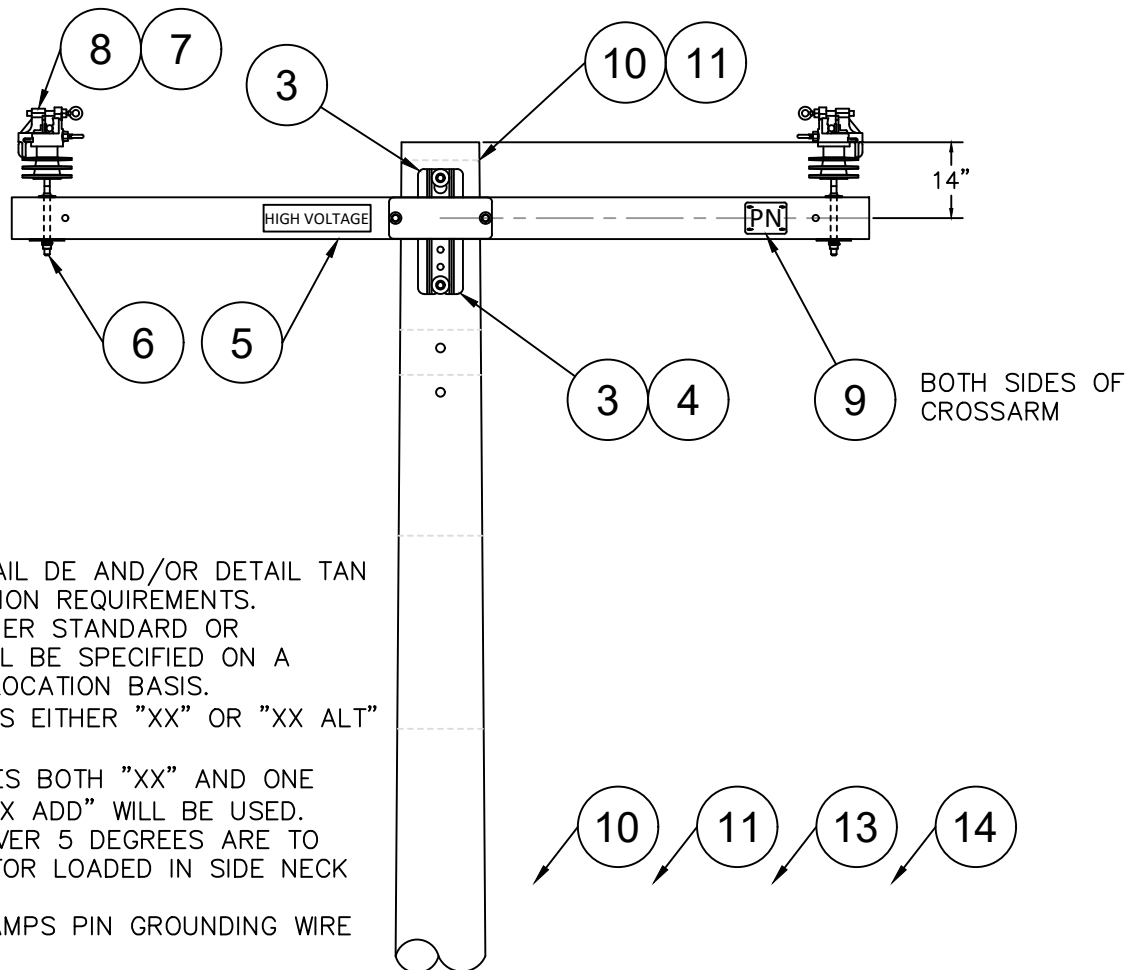
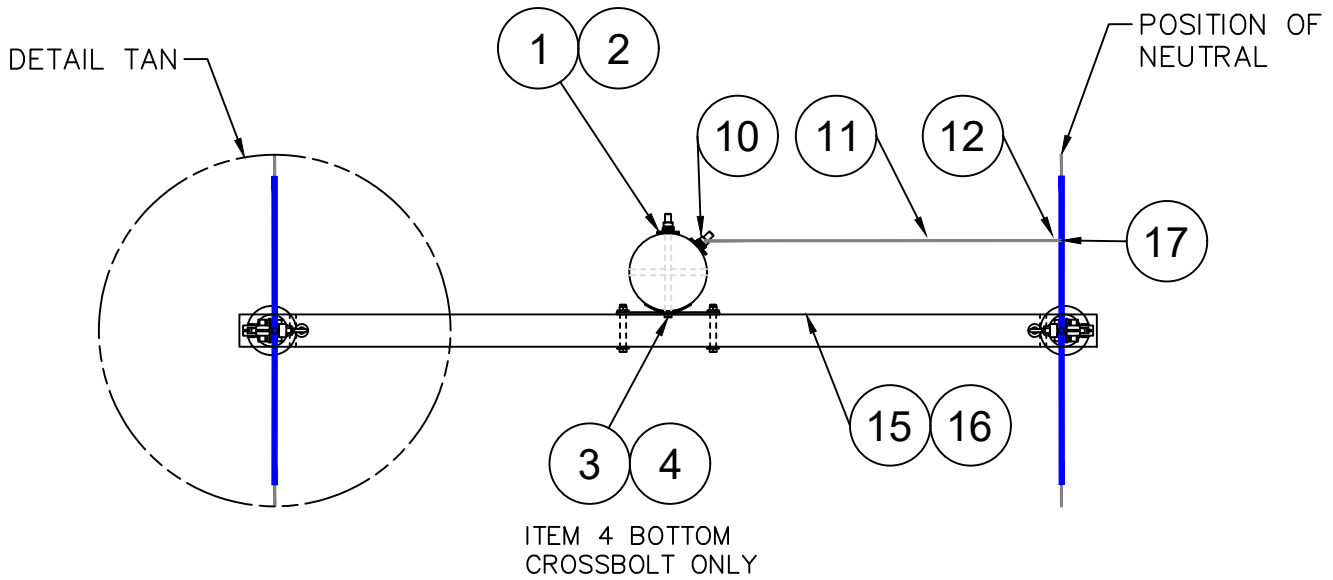
Backfill material to be Base Rock.

Approximately 25 cubic feet of base rock per pole.

All metal poles are to be set in tube and filled with base rock.

Substitution for ADS N-12 Plain End must be approved by TDPUD prior to purchase.





GENERAL NOTES:

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2. ALL ITEMS EITHER STANDARD OR ALTERNATE WILL BE SPECIFIED ON A LOCATION BY LOCATION BASIS.
3. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
4. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
5. ALL ANGLES OVER 5 DEGREES ARE TO HAVE CONDUCTOR LOADED IN SIDE NECK OF INSULATOR.
6. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.

**1-Phase Tangent**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	A1	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		1 of 2

**A1 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	71011543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211015	8' FIBERGLASS CROSSARM - TANGENT
6	2	66931522	SPRING CLIP WASHER
7	2	66931521	HENDRIX VISE TOP INSULATOR
7 ALT	2	66931525	INSULATOR - POST TOP - HENDRIX
8	2	66931503	3/4" PIN
8 ALT	2	66931524	BOLT - STUD - 3/4" x 7 1/2"
9	2	80001002	PN SIGN
10	1	18049628	GROUNDING BOLT
11	6'	72500611	#6 COPPER INSULATED TAP
12	1	11780037	AMPACT 350 SERIES - 397.5 AAC
12 ALT	1	11780041	AMPACT 3/0-6, 2/0-6 - 1/0 ACSR
15	4		P-CLAMP
16	4		P-CLAMP SELF TAPPING SCREW
17	1	66931515	AMPACT COVER - RELIAGUARD
N/A	1	11780047	AMPACT CARTRIDGE - BLUE

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
10	1	18049628	GROUNDING BOLT
11	3'	72500611	#6 COPPER INSULATED TAP
13	1	17311000	CONNECTOR, GROUND, CRIMP
14	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

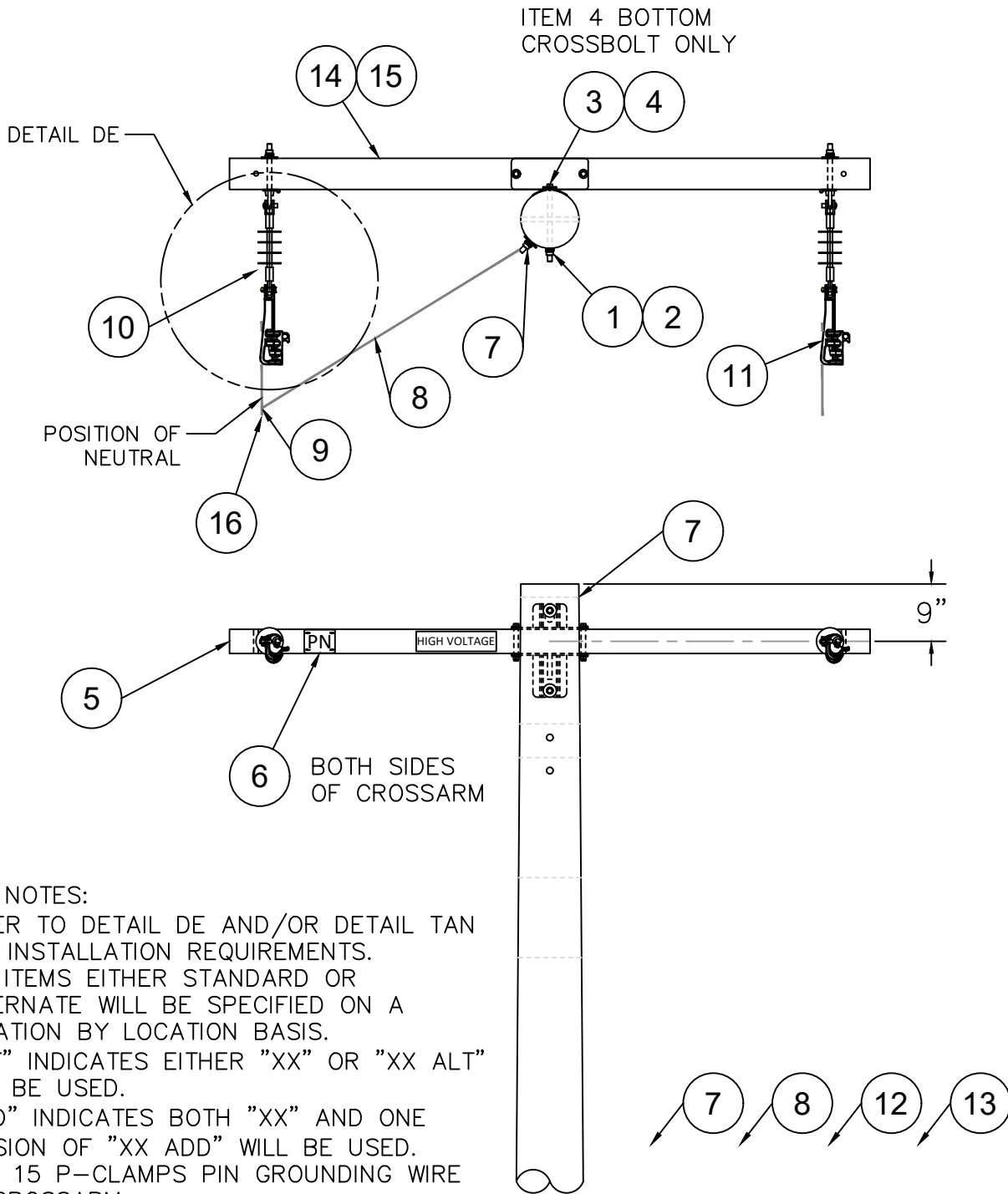
ITEM	QTY	ITEM#	MATERIAL
10	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
10 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
11	3'	72500611	#6 COPPER INSULATED TAP
11 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
11 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
13	1	17311000	CONNECTOR, GROUND, CRIMP
14	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**1-Phase Tangent**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	A1	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		



**ELECTRIC DEPARTMENT**

**1-Phase Deadend**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	A2	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		

**A2 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	71011543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211013	8' FIBERGLASS CROSSARM - DEADEND
6	2	80001002	PN SIGN
7	1	18049628	GROUNDING BOLT
8	6'	72500611	#6 COPPER INSULATED TAP
9	1	11780037	AMPACT - 397AAC TO #6 COPPER
9 ALT	1	11780041	AMPACT - 1/0 ACSR TO #6 COPPER
10	2	34289013	INSULATOR - SUSPENSION - BELL
11	2	66931501	DEADEND - WEDGE - 397.5 AAC
11 ALT	2	66931502	DEADEND - WEDGE - #1/0 ACSR
14	4		P-CLAMP
15	4		P-CLAMP SELF TAPPING SCREW
16	1	66931515	AMPACT COVER - RELIAGUARD
N/A	1	11780047	AMPACT CARTRIDGE - BLUE
Detail DF	2	66931514	RELIAGUARD DEADEND COVER
Detail DE	2	66931523	RELIAGUARD EXTENSION

**POLE GROUNDING**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
12	1	17311000	CONNECTOR, GROUND, CRIMP
13	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

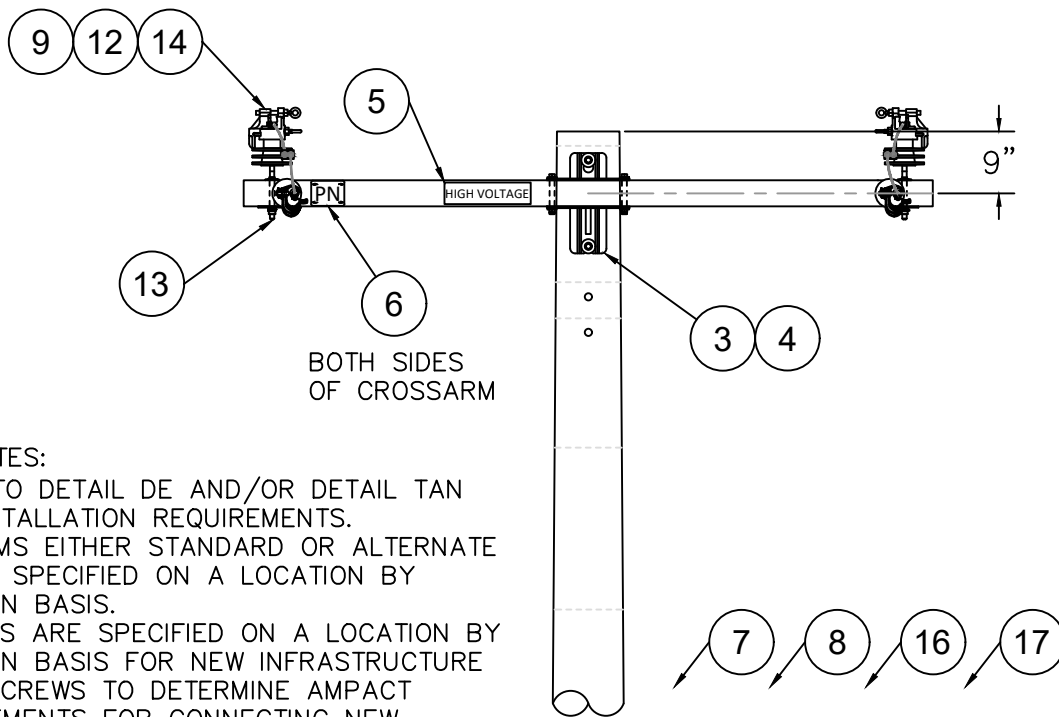
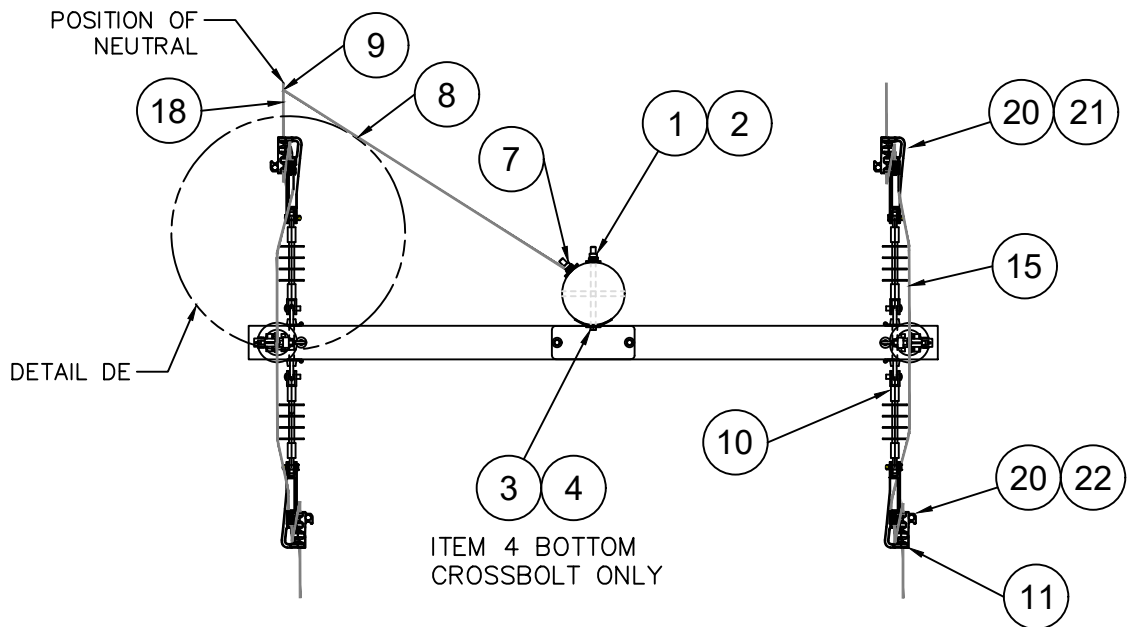
ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
12	1	17311000	CONNECTOR, GROUND, CRIMP
13	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**1-Phase Deadend**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	A2	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		



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3. AMPACTS ARE SPECIFIED ON A LOCATION BY LOCATION BASIS FOR NEW INFRASTRUCTURE ONLY. CREWS TO DETERMINE AMPACT REQUIREMENTS FOR CONNECTING NEW INFRASTRUCTURE TO OLD INFRASTRUCTURE. REFER TO AMPACT SIZING CHART DETAIL.
4. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
5. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
5. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
6. GROUNDING REQUIREMENT ITEM ONLY COUNTS FOR SOURCE SIDE.

**1-Phase Double Deadend**

Single Fiberglass Crossarm, Reliaguard Added

Neutral on Crossarm

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	A3	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		1 of 2

**A3 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	7101543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211013	8' FIBERGLASS CROSSARM - DEADEND
6	2	80001002	PN SIGN
7	1	18049628	GROUNDING BOLT
8	6'	72500611	#6 COPPER INSULATED TAP
9	1	11780062	AMPACT - 397 AAC TO #6 COPPER
9 ALT	1	11780061	AMPACT - 1/0 ACSR TO #6 COPPER
10	4	34289013	INSULATOR - SUSPENSION - BELL
11	4	66931501	DEADEND - WEDGE - 397.5 AAC
11 ALT	4	66931502	DEADEND - WEDGE - #1/0 ACSR
12	2	66931503	3/4" PIN
13	2	66931522	SPRING CLIP WASHER
14	2	66931521	HENDRIX VISE TOP INSULATOR
15	20'	15622529	250 COPPER INSULATED TAP
15 ALT	20'	15622029	2/0 COPPER INSULATED TAP
18	4		P-CLAMP
19	4		P-CLAMP SELF TAPPING SCREW
20	5	66931515	AMPACT COVER - RELIAGUARD
N/A	5	11780047	AMPACT CARTRIDGE - BLUE
21	2	11780034	AMPACT - 397 AAC TO 250 COPPER
21 ALT	2	11780035	AMPACT- 397 AAC TO 2/0 COPPER
21 ALT 2	2	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
22	2	11780034	AMPACT - 397 AAC TO 250 COPPER
22 ALT	2	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
Detail DE	4	66931514	RELIAGUARD DEADEND COVER
Detail DE	4	66931523	RELIAGUARD EXTENSION

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
16	1	17311000	CONNECTOR, GROUND, CRIMP
17	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
16	1	17311000	CONNECTOR, GROUND, CRIMP
17	1	53828508	ROD, GROUND 8' x 5/8"

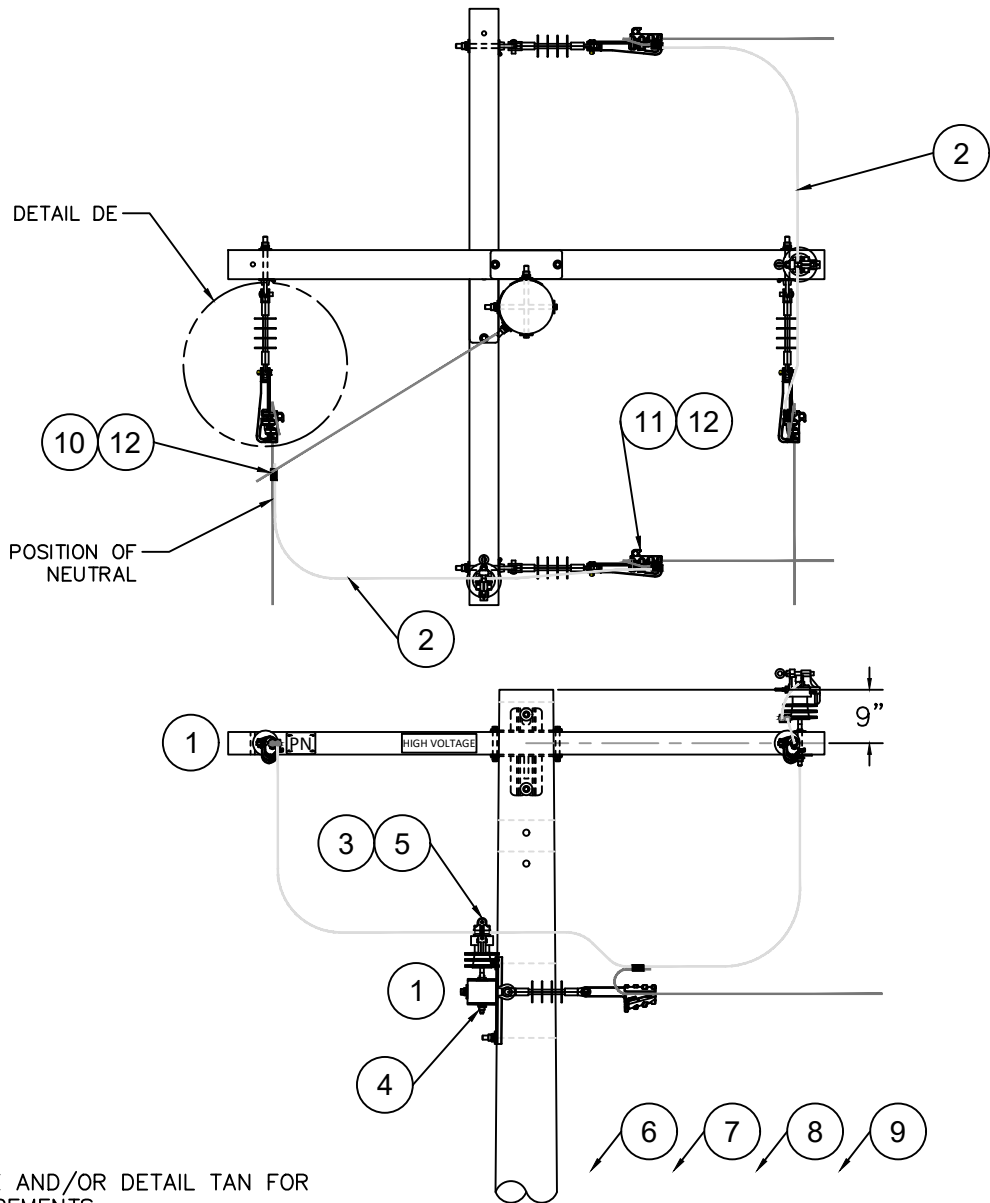
**ELECTRIC DEPARTMENT**

**1-Phase Double Deadend**

Single Fiberglass Crossarm, Reliaguard Added

Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	A3	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

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4. GROUNDING BOLT TO BE REDUCED BY 1. GROUNDING OF NEUTRAL IS COMBINED AT GROUND TAP ON POLE.
5. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
6. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
5. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
6. GROUNDING REQUIREMENT ITEM COUNTS ONLY FOR SOURCE SIDE.

**1-Phase Buck**  
Construction & Guide

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage		SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV	<b>A4</b>	1 of 2

A4 POLE TOP

ITEM	QTY	ITEM#	MATERIAL
1	2		A2 Deadend Crossarm Assembly
2	20'	15622529	250 COPPER INSULATED TAP
2 ALT	20'	15622029	2/0 COPPER INSULATED TAP
3	2	66931503	3/4" PIN
4	2	66931522	SPRING CLIP WASHER
5	2	66931521	HENDRIX VISE TOP INSULATOR
10	2	11780034	AMPACT – 397 AAC TO 250 COPPER
10 ALT	2	11780035	AMPACT – 397 AAC TO 2/0 COPPER
10 ALT 2	2	11780040	AMPACT – 1/0 ACSR TO 2/0 COPPER
11	2	11780034	AMPACT – 397 AAC TO 250 COPPER
11 ALT	2	11780040	AMPACT – 1/0 ACSR TO 2/0 COPPER
12	5	66931515	AMPACT COVER – RELIAGUARD
13	5	11780047	AMPACT CARTRIDGE – BLUE

POLE GROUNDING – STEEL

ITEM	QTY	ITEM#	MATERIAL
6	1	18049628	GROUNDING BOLT
7	3'	72500611	#6 COPPER INSULATED TAP
8	1	17311000	CONNECTOR, GROUND, CRIMP
9	1	53828508	ROD, GROUND 8' x 5/8"

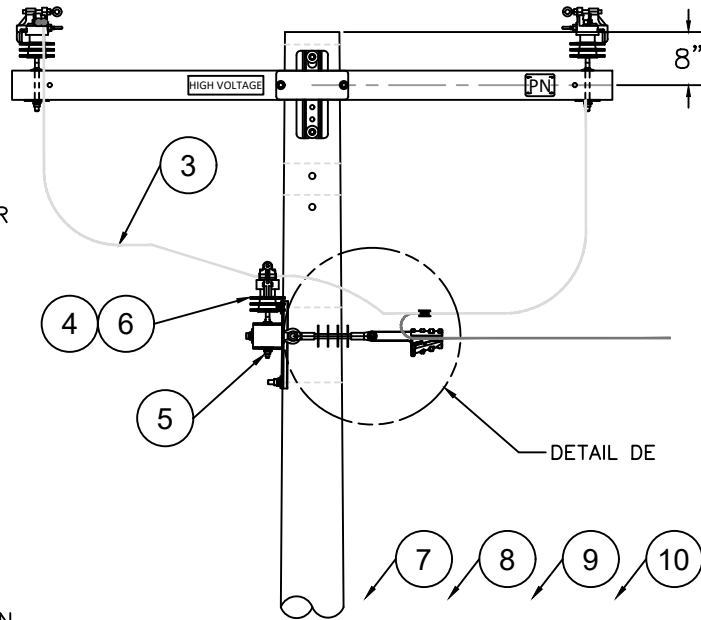
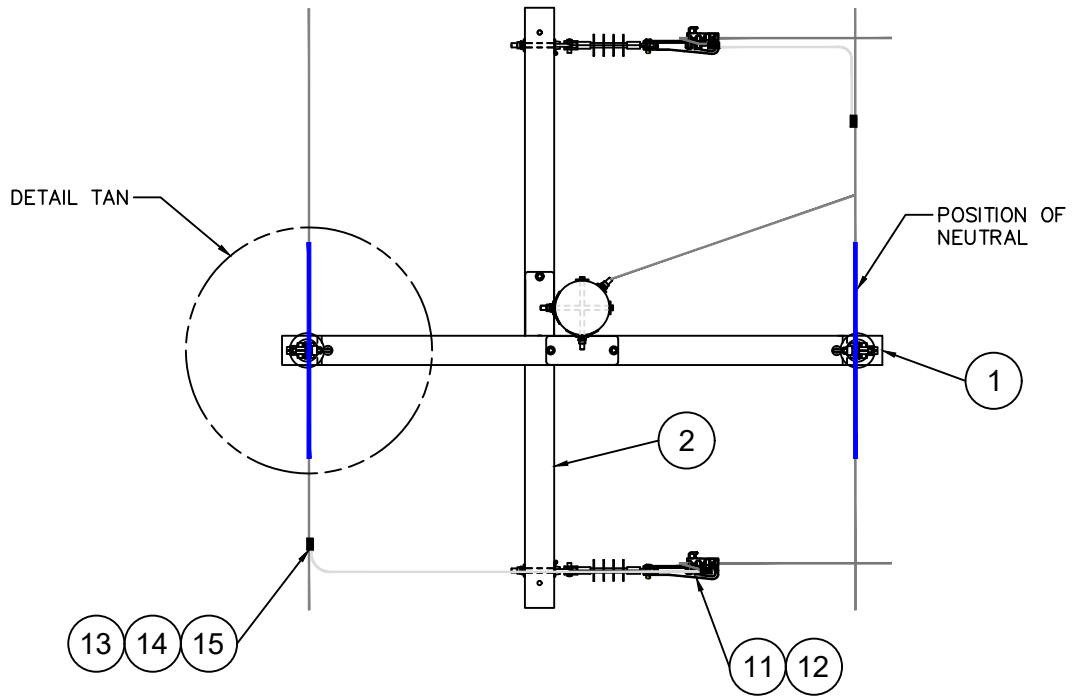
POLE GROUNDING – WOOD

ITEM	QTY	ITEM#	MATERIAL
6	2	75002063	8' MOLDING – GROUND WIRE FOR 35' SECONDARY POLE
6 ALT	4	75002063	8' MOLDING – GROUND WIRE FOR 50' PRIMARY POLE
7	3'	72500611	#6 COPPER INSULATED TAP
7 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
7 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
8	1	17311000	CONNECTOR, GROUND, CRIMP
9	1	53828508	ROD, GROUND 8' x 5/8"

**1-Phase Buck**  
Construction & Guide

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	A4	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

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4. GROUNDING BOLT TO BE REDUCED BY 1. GROUNDING OF NEUTRAL IS COMBINED AT GROUND TAP ON POLE.
5. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
6. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
5. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
6. ALL ANGLES OVER 5 DEGREES ARE TO HAVE CONDUCTOR LOADED IN SIDE NECK OF INSULATOR
7. IF AMPACT STIRRUPS ARE NOT AVAILABLE MAKE CONNECTION WITH UNCOVERED HOTLINE TAP ONLY.
8. AMPACT STIRRUP 397 AAC REQUIRES YELLOW CARTRIDGE TO FIRE.

## 1-Phase Line and Tap

### Construction & Guide

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	<b>A5</b>	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		1 of 2

**A5 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	1		A1 Tangent Crossarm Assembly
2	1		A2 Deadend Crossarm Assembly
3	20'	15622529	250 COPPER INSULATED TAP
3 ALT	20'	15622029	2/0 COPPER INSULATED TAP
4	1	66931503	3/4" PIN
5	1	66931522	SPRING CLIP WASHER
6	1	66931521	HENDRIX VISE TOP INSULATOR
11	2	11780034	AMPACT – 397 AAC 250 COPPER
11 ALT	2	11780040	AMPACT – 1/0 ACSR TO 2/0 COPPER
12	2	66931515	AMPACT COVER – RELIAGUARD
N/A	2	11780047	AMPACT CARTRIDGE – BLUE
N/A ADD	2	11780047	AMPACT CARTRIDGE – BLUE
N/A ADD 2	2	11780055	AMPACT CARTRIDGE – YELLOW
13	2	17413920	HOTLINE CLAMP
14	2	11780053	AMPACT STIRRUP – #1/0 ACSR
14 ALT	2	11780054	AMPACT STIRRUP – 397 AAC
15	2	66931513	BAILGUARD

**POLE GROUNDING – STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING – WOOD**

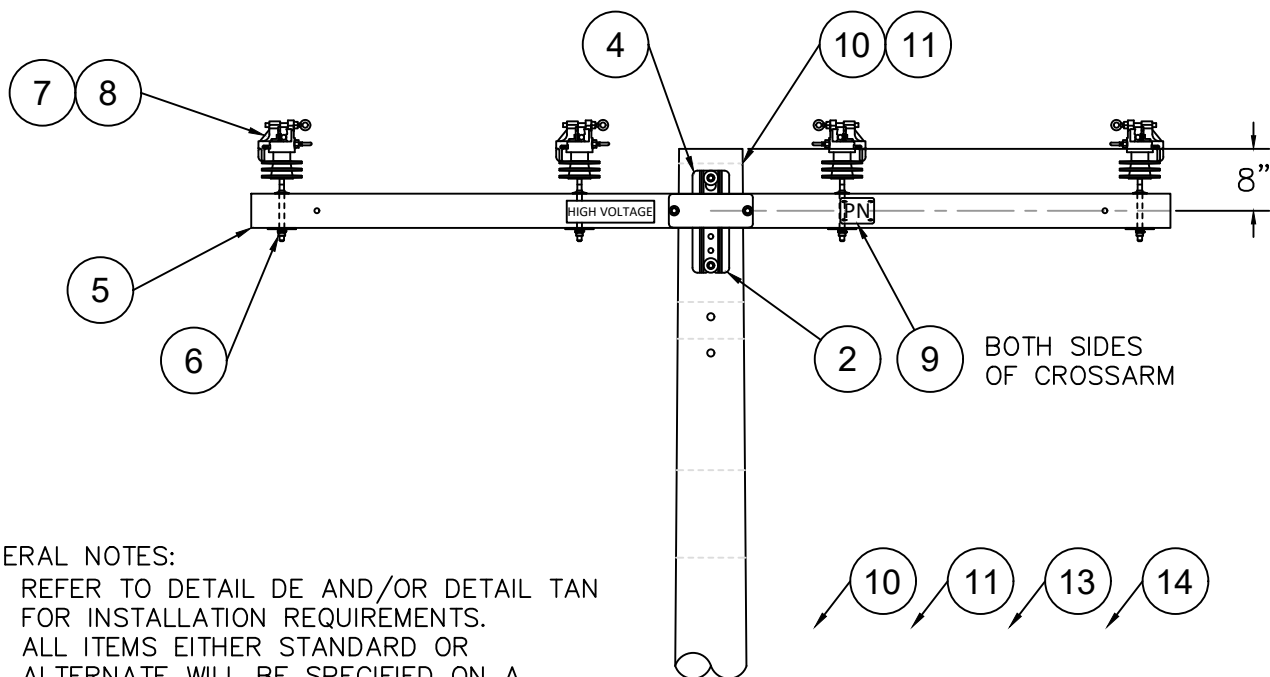
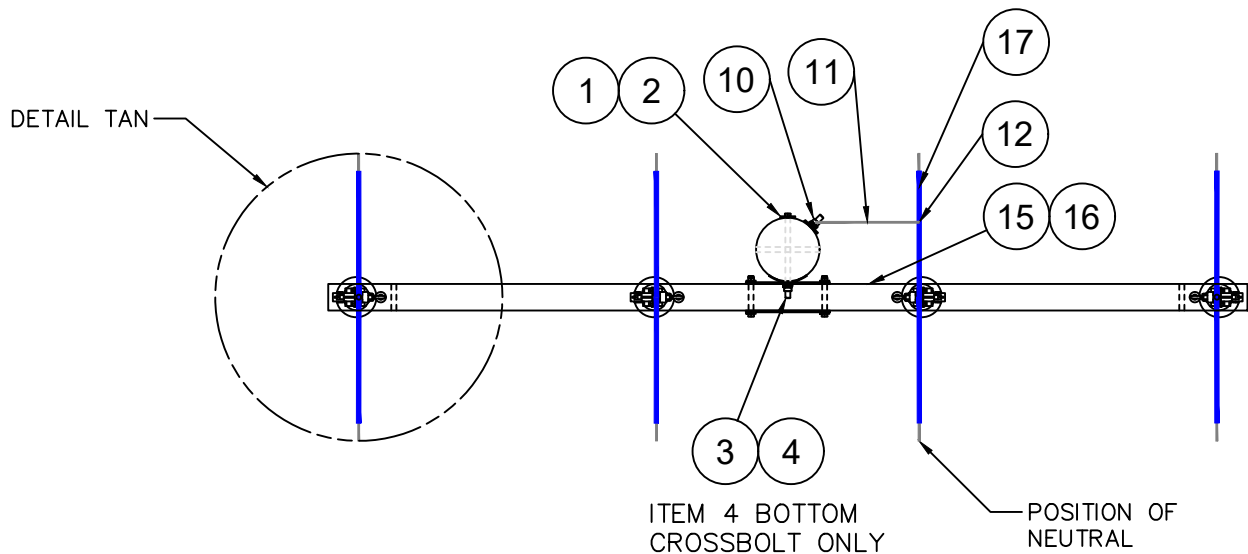
ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING – GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING – GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**1-Phase Line and Tap**

Construction & Guide

Drawn	Design	Approved	Date	Rev	Category	Voltage	A5	SHEET
JM	NV5	SM	05/01/2026	0	1 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

1. REFER TO DETAIL DE AND/OR DETAIL TAN FOR INSTALLATION REQUIREMENTS.
2. ALL ITEMS EITHER STANDARD OR ALTERNATE WILL BE SPECIFIED ON A LOCATION BY LOCATION BASIS.
3. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
4. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
5. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
6. ALL ANGLES OVER 5 DEGREES ARE TO HAVE CONDUCTOR LOADED IN SIDE NECK OF INSULATOR.

**ELECTRIC DEPARTMENT**

**3-Phase Tangent**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C1	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		1 of 2

**C1 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	7101543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211016	10' FIBERGLASS CROSSARM - TANGENT
6	4	66931522	SPRING CLIP WASHER
7	4	66931521	HENDRIX VISE TOP INSULATOR
7 ALT	4	66931525	INSULATOR - POST TOP - HENDRIX
8	4	66931503	3/4" PIN
8 ALT	4	66931524	BOLT - STUD - 3/4" x 7 1/2"
9	2	80001002	PN SIGN
10	1	18049628	GROUNDING BOLT
11	4'	72500611	#6 COPPER INSULATED TAP
12	1	11780037	AMPACT - 397 AAC TO #6 COPPER
12 ALT	1	11780041	AMPACT - 1/0 ACSR TO #6 COPPER
15	2		P-CLAMP
16	2		P-CLAMP SELF TAPPING SCREW
17	1	66931515	AMPACT COVER - RELIAGUARD
N/A	1	11780047	AMPACT CARTRIDGE - BLUE

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
10	1	18049628	GROUNDING BOLT
11	3'	72500611	#6 COPPER INSULATED TAP
13	1	17311000	CONNECTOR, GROUND, CRIMP
14	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

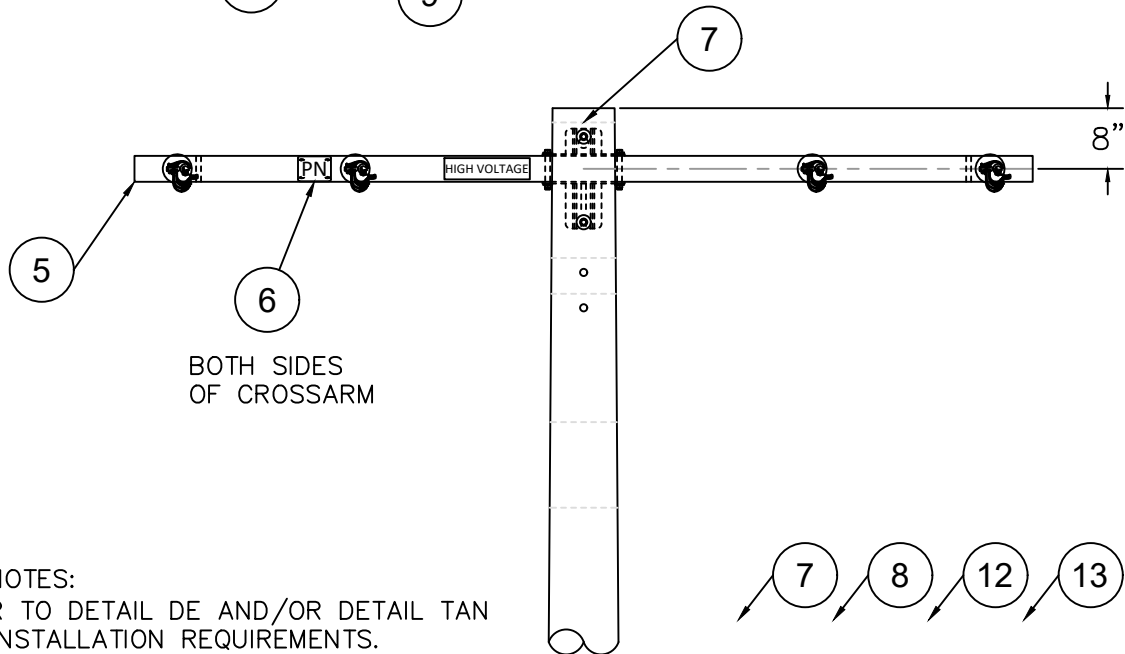
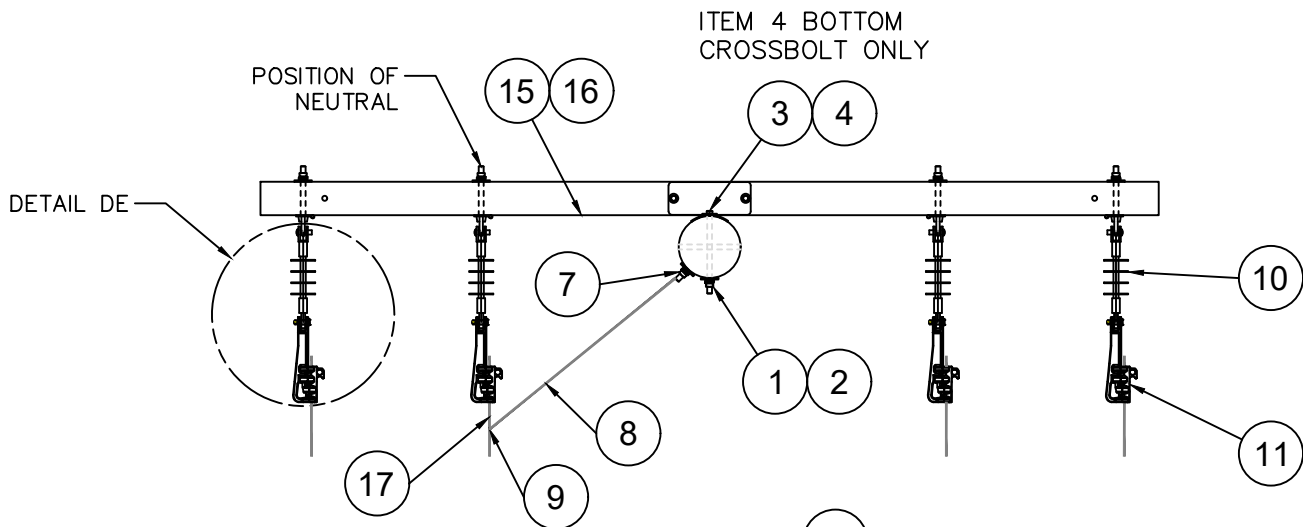
ITEM	QTY	ITEM#	MATERIAL
10	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
10 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
11	3'	72500611	#6 COPPER INSULATED TAP
11 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
11 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
13	1	17311000	CONNECTOR, GROUND, CRIMP
14	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**3-Phase Tangent**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C1	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

1. REFER TO DETAIL DE AND/OR DETAIL TAN FOR INSTALLATION REQUIREMENTS.
2. ALL ITEMS EITHER STANDARD OR ALTERNATE WILL BE SPECIFIED ON A LOCATION BY LOCATION BASIS.
3. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.

**ELECTRIC DEPARTMENT**

**3-Phase Deadend**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C2	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		1 of 2

**C2 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	7101543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211014	10' FIBERGLASS CROSSARM - DEADEND
6	2	80001002	PN SIGN
7	1	18049628	GROUNDING BOLT
8	6'	72500611	#6 COPPER INSULATED TAP
9	1	11780037	AMPACT - 397 AAC TO #6 COPPER
9 ALT	1	11780041	AMPACT - 1/0 ACSR TO #6 COPPER
10	4	34289013	INSULATOR - SUSPENSION - BELL
11	4	66931501	DEADEND - WEDGE - 397.5 AAC
11 ALT	4	66931502	DEADEND - WEDGE - #1/0 ACSR
15	2		P-CLAMP
16	2		P-CLAMP SELF TAPPING SCREW
17	1	66931515	AMPACT COVER - RELIAGUARD
N/A	1		AMPACT CARTRIDGE - BLUE
Detail DE	4	66931514	RELIAGUARD DEADEND COVER
Detail DE	4	66931523	RELIAGUARD EXTENSION

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
12	1	17311000	CONNECTOR, GROUND, CRIMP
13	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

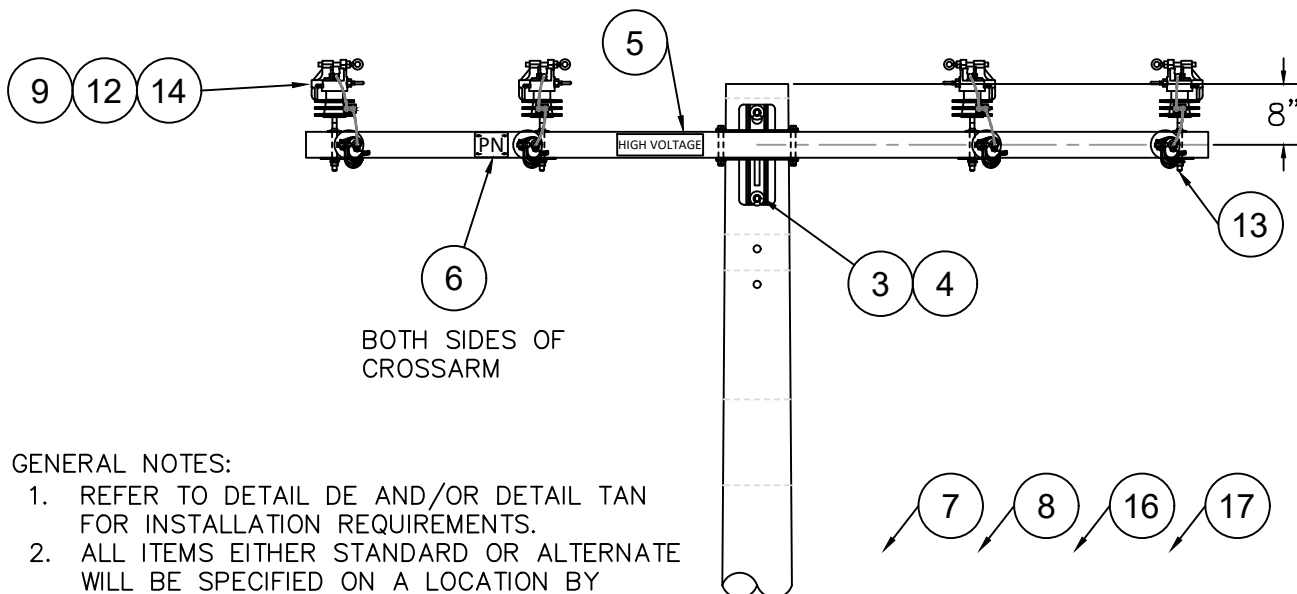
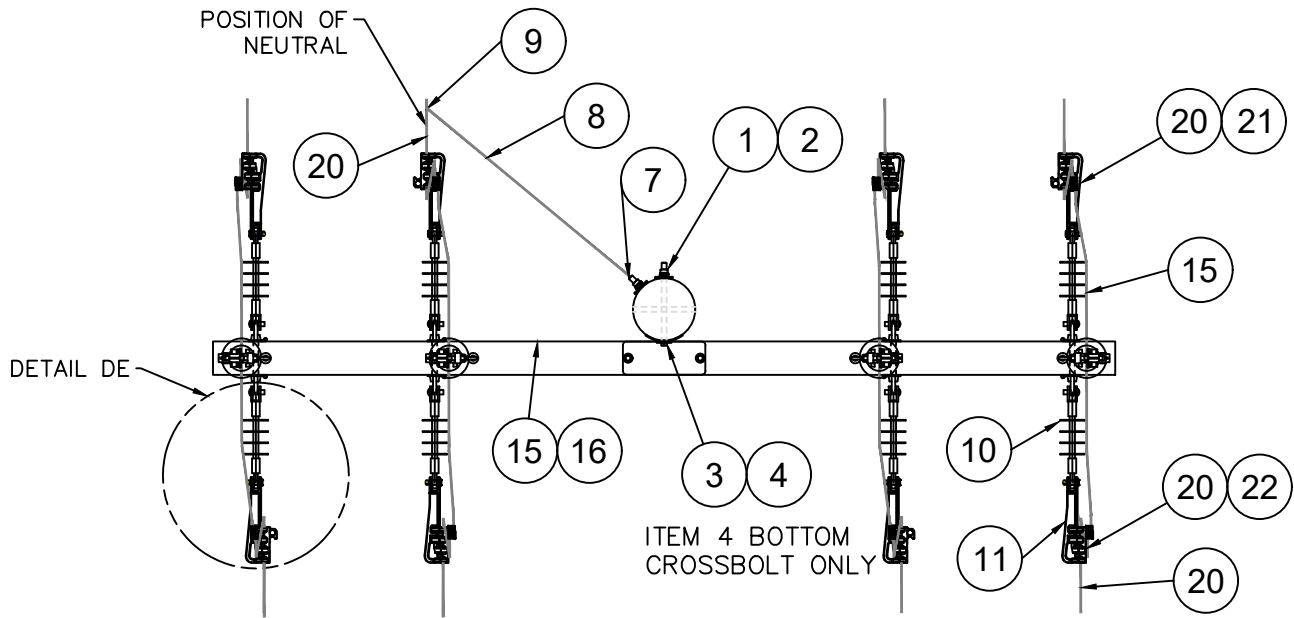
ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
12	1	17311000	CONNECTOR, GROUND, CRIMP
13	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**3-Phase Deadend**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C2	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



GENERAL NOTES:

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3. AMPACTS ARE SPECIFIED ON A LOCATION BY LOCATION BASIS FOR NEW INFRASTRUCTURE ONLY. CREWS TO DETERMINE AMPACT REQUIREMENTS FOR CONNECTING NEW INFRASTRUCTURE TO OLD INFRASTRUCTURE. REFER TO AMPACT SIZING CHART DETAIL.
4. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
5. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
6. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
7. GROUNDING REQUIREMENT ITEM COUNTS ONLY.

**ELECTRIC DEPARTMENT**

**3-Phase Double Deadend**  
 Single Fiberglass Crossarm, Reliaguard Added  
 Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C3	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		1 of 2

**C3 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2	7101543	WASHER, 3/4" DOUBLE COIL
2	2	71013071	4"x4" SQUARE WASHER CURVED
2 ALT	2	71011542	3"x3" SQUARE WASHER FLAT
3	2	6380614	3/4" x 14" BOLT
4	1	940048	WASHER - ROUND - 3/4"
5	1	18211014	10' FIBERGLASS CROSSARM - DEADEND
6	2	80001002	PN SIGN
7	1	18049628	GROUNDING BOLT
8	6'	72500611	#6 COPPER INSULATED TAP
9	1	11780062	AMPACT - 397 AAC TO #6 COPPER
9 ALT	1	11780061	AMPACT - 1/0 ACSR TO #6 COPPER
10	8	34289013	INSULATOR - SUSPENSION - BELL
11	8	66931501	DEADEND - WEDGE - 397.5 AAC
11 ALT	8	66931502	DEADEND - WEDGE - #1/0 ACSR
12	4	66931503	3/4" PIN
13	4	66931522	SPRING CLIP WASHER
14	4	66931521	HENDRIX VISE TOP INSULATOR
15	40'	15622529	250 COPPER INSULATED TAP
15 ALT	40'	15622029	2/0 COPPER INSULATED TAP
18	2		P-CLAMP
19	2		P-CLAMP SELF TAPPING SCREW
20	9	66931515	AMPACT COVER - RELIAGUARD
N/A	9	11780047	AMPACT CARTRIDGE - BLUE
21	4	11780034	AMPACT - 397 AAC TO 250 COPPER
21 ALT	4	11780035	AMPACT - 397 AAC TO 2/0 COPPER
21 ALT 2	4	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
22	4	11780034	AMPACT - 397 AAC TO 250 COPPER
22 ALT	4	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
DETAIL DE	8	66931514	RELIAGUARD DEADEND COVER
DETAIL DE	8	66931523	RELIAGUARD EXTENSION

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
16	1	17311000	CONNECTOR, GROUND, CRIMP
17	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

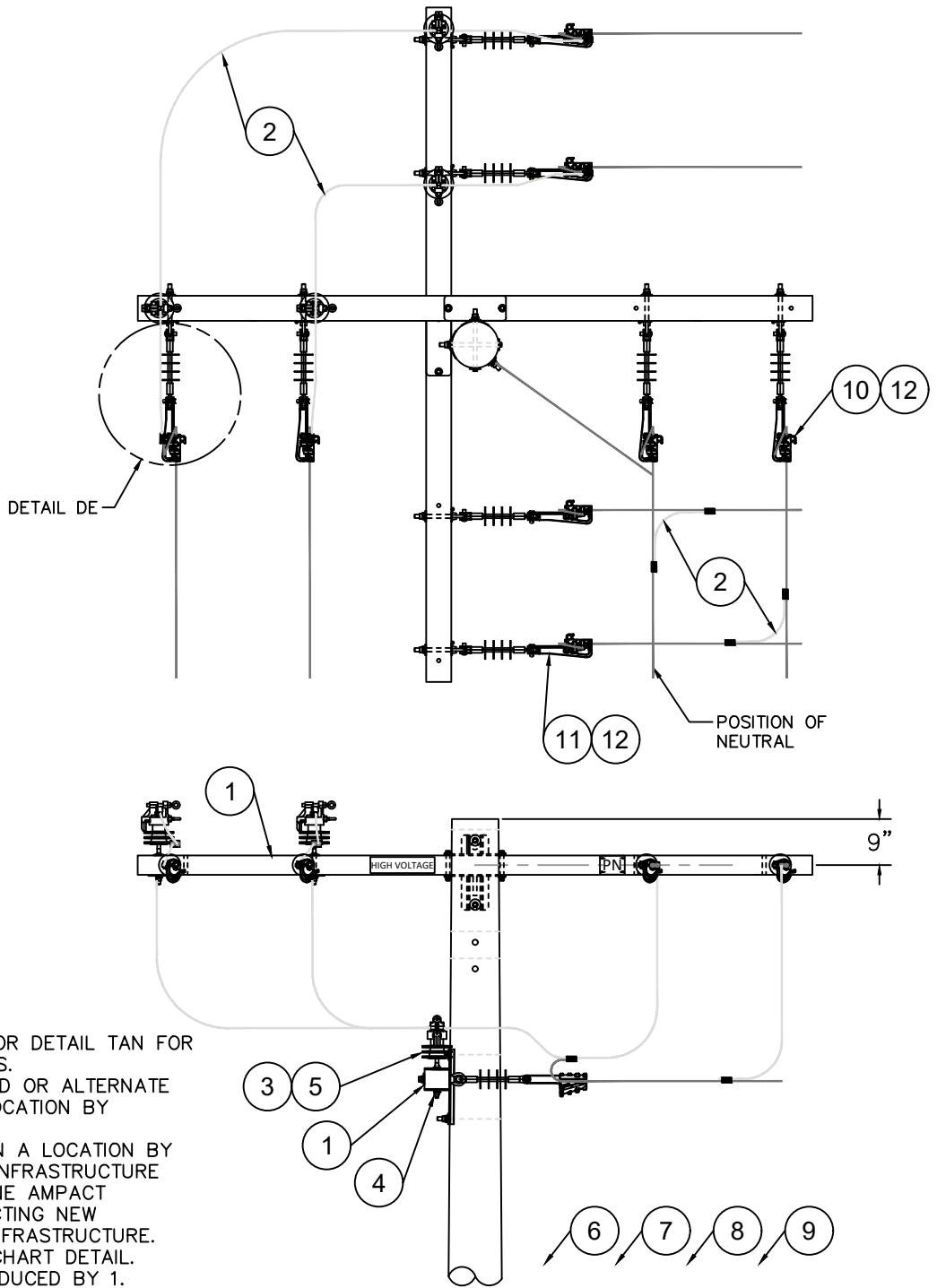
ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
16	1	17311000	CONNECTOR, GROUND, CRIMP
17	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**3-Phase Double Deadend**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C3	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

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3. AMPACTS ARE SPECIFIED ON A LOCATION BY LOCATION BASIS FOR NEW INFRASTRUCTURE ONLY. CREWS TO DETERMINE AMPACT REQUIREMENTS FOR CONNECTING NEW INFRASTRUCTURE TO OLD INFRASTRUCTURE. REFER TO AMPACT SIZING CHART DETAIL.
4. GROUNDING BOLT TO BE REDUCED BY 1. GROUNDING OF NEUTRAL IS COMBINED AT GROUND TAP ON POLE.
5. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
6. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
7. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
8. GROUNDING REQUIREMENT ITEM COUNTS ONLY FOR SOURCE SIDE.

**3-Phase Buck**  
Construction & Guide

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	C4	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		

**C4 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	2		C2 Deadend Crossarm Assembly
2	40'	15622529	250 COPPER INSULATED TAP
2 ALT	40'	15622029	2/0 COPPER INSULATED TAP
3	4	66931503	3/4" PIN
4	4	66931522	SPRING CLIP WASHER
5	4	66931521	HENDRIX VISE TOP INSULATOR
10	4	11780034	AMPACT - 397 AAC TO 250 COPPER
10 ALT	4	11780035	AMPACT - 397 AAC TO 2/0 COPPER
10 ALT 2	4	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
11	4	11780034	AMPACT - 397 AAC TO 250 COPPER
11	4	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
12	9	66931515	AMPACT COVER - RELIAGUARD
13	9	11780047	AMPACT CARTRIDGE - BLUE

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
6	1	18049628	GROUNDING BOLT
7	3'	72500611	#6 COPPER INSULATED TAP
8	1	17311000	CONNECTOR, GROUND, CRIMP
9	1	53828508	ROD, GROUND 8' x 5/8"

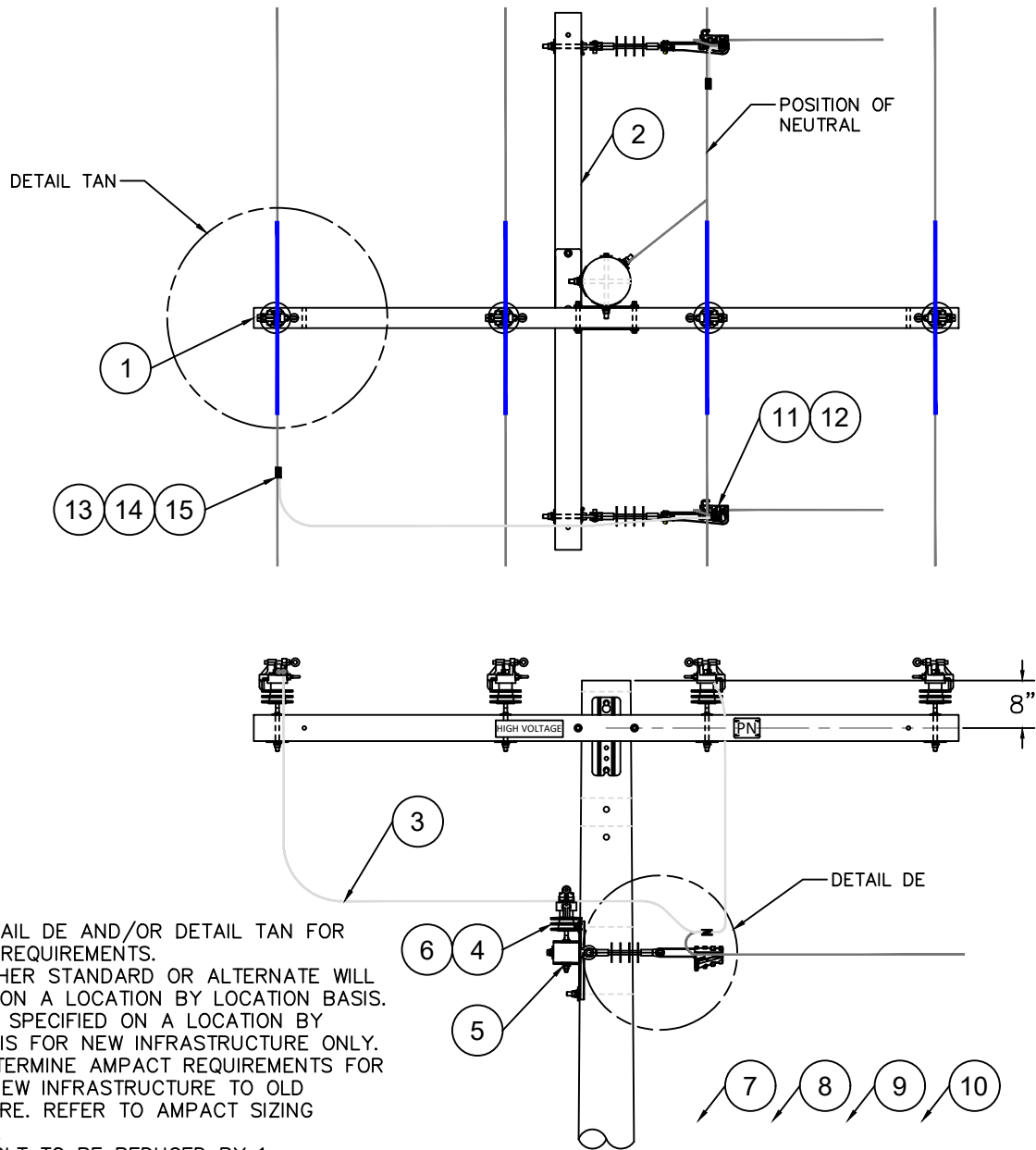
**POLE GROUNDING - WOOD**

ITEM	QTY	ITEM#	MATERIAL
6	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
6 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
7	3'	72500611	#6 COPPER INSULATED TAP
7 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
7 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
8	1	17311000	CONNECTOR, GROUND, CRIMP
9	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**3-Phase Buck**  
Construction & Guide

Drawn	Design	Approved	Date	Rev	Category	Voltage	<b>C4</b>	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

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4. GROUNDING BOLT TO BE REDUCED BY 1.
5. VISE TOP INSULATOR REQUIREMENTS DEPEND ON WHICH PHASE IS BEING TAPPED.
6. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
7. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
8. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
9. ALL ANGLES OVER 5 DEGREES ARE TO HAVE CONDUCTOR LOADED IN SIDE NECK OF INSULATOR.
10. IF AMPACT STIRRUPS ARE NOT AVAILABLE MAKE CONNECTION WITH UNCOVERED HOTLINE TAP ONLY.
11. GROUNDING REQUIREMENT ITEM COUNTS ONLY FOR SOURCE SIDE.

### 3-Phase Line and 1-Phase Tap

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	C5	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		1 of 2

**C5 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	1		C1 Tangent Crossarm Assembly
2	1		A2 Deadend Crossarm Assembly
3	40'	15622529	250 COPPER INSULATED TAP
3 ALT	40'	15622029	2/0 COPPER INSULATED TAP
4	2	66931503	3/4" PIN
5	2	66931522	SPRING CLIP WASHER
6	2	66931521	HENDRIX VISE TOP INSULATOR
11	2	11780034	AMPACT – 397 AAC TO 250 COPPER
11 ALT	2	11780040	AMPACT – 1/0 ACSR TO 2/0 COPPER
12	2	66931515	AMPACT COVER – RELIAGUARD
N/A	2	11780047	AMPACT CARTRIDGE – BLUE
N/A ADD	2	11780047	AMPACT CARTRIDGE – BLUE
N/A ADD 2	2	11780055	AMPACT CARTRIDGE – YELLOW
13	2	17413920	HOTLINE CLAMP
14	2	11780053	AMPACT STIRRUP – 1/0 ACSR
14 ALT	2	11780054	AMPACT STIRRUP – 397 AAC
15	2	66931513	BAILGUARD

**POLE GROUNDING – STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

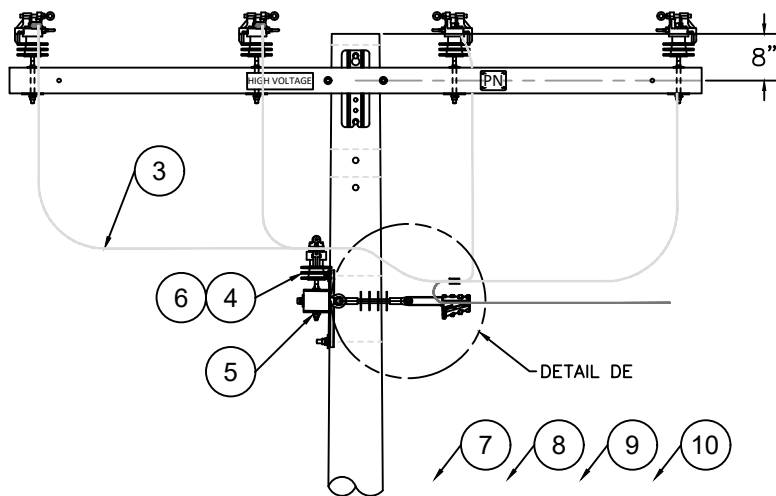
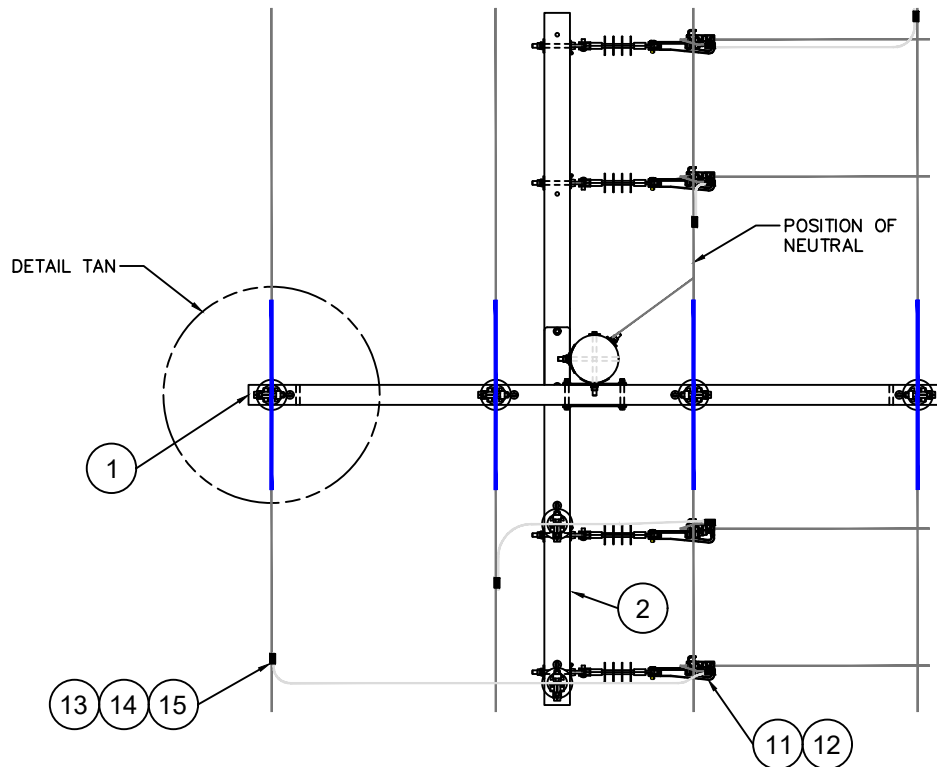
**POLE GROUNDING – WOOD**

ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING – GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING – GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

**3-Phase Line and 1-Phase Tap**  
Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C5	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



**GENERAL NOTES:**

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3. AMPACTS ARE SPECIFIED ON A LOCATION BASIS FOR NEW INFRASTRUCTURE ONLY. CREWS TO DETERMINE AMPACT REQUIREMENTS FOR CONNECTING NEW INFRASTRUCTURE TO OLD INFRASTRUCTURE. REFER TO AMPACT SIZING CHART DETAIL.
4. GROUNDING BOLT TO BE REDUCED BY 1. GROUNDING OF NEUTRAL IS COMBINED AT GROUND TAP ON POLE.
5. VISE TOP INSULATOR REQUIREMENTS DEPEND ON WHICH PHASE IS BEING TAPPED.
6. "ALT" INDICATES EITHER "XX" OR "XX ALT" WILL BE USED.
7. "ADD" INDICATES BOTH "XX" AND ONE VERSION OF "XX ADD" WILL BE USED.
8. ITEM 15 P-CLAMPS PIN GROUNDING WIRE TO CROSSARM.
9. ALL ANGLES OVER 5 DEGREES ARE TO HAVE CONDUCTOR LOADED IN SIDE NECK OF INSULATOR.
10. IF AMPACT STIRRUPS ARE NOT AVAILABLE MAKE CONNECTION WITH UNCOVERED HOTLINE TAP ONLY.
11. GROUNDING REQUIREMENT ITEM COUNTS ONLY FOR SOURCE SIDE.

FOR LOCATIONS WHERE 3-PHASE TAP IS CONSIDERED MAINLINE (397 TO 397) CONNECTION TO BE MADE WITH AMPACTS AND NOT HOTLINE TAPS.

IT IS POSSIBLE TO HAVE A 397 TO 397 TAP THAT IS NOT CONSIDERED MAINLINE. CONTACT ENGINEERING IF PLANS ARE NOT CLEAR.

**ELECTRIC DEPARTMENT**

**3-Phase Line and Tap**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C6	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		1 of 2

**C6 POLE TOP**

ITEM	QTY	ITEM#	MATERIAL
1	1		C1 Tangent Crossarm Assembly
2	1		C2 Deadend Crossarm Assembly
3	40'	15622529	250 COPPER INSULATED TAP
3 ALT	40'	15622029	2/0 COPPER INSULATED TAP
4	2	66931503	3/4" PIN
5	2	66931522	SPRING CLIP WASHER
6	2	66931521	HENDRIX VISE TOP INSULATOR
11	4	11780034	AMPACT - 397 AAC TO 250 COPPER
11 ALT	4	11780040	AMPACT - 1/0 ACSR TO 2/0 COPPER
12	5	66931515	AMPACT COVER - RELIAGUARD
N/A	5	11780047	AMPACT CARTRIDGE - BLUE
N/A ADD	4	11780047	AMPACT CARTRIDGE - BLUE
N/A ADD 2	4	11780055	AMPACT CARTRIDGE - YELLOW
13	4	17413920	HOTLINE CLAMP
14	4	11780053	AMPACT STIRRUP - 1/0 ACSR
14 ALT	4	11780054	AMPACT STIRRUP - 397 AAC
15	4	66931513	BAILGUARD

**POLE GROUNDING - STEEL**

ITEM	QTY	ITEM#	MATERIAL
7	1	18049628	GROUNDING BOLT
8	3'	72500611	#6 COPPER INSULATED TAP
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

**POLE GROUNDING - WOOD**

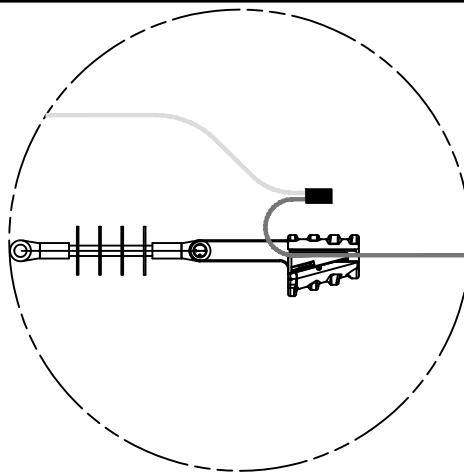
ITEM	QTY	ITEM#	MATERIAL
7	2	75002063	8' MOLDING - GROUND WIRE FOR 35' SECONDARY POLE
7 ALT	4	75002063	8' MOLDING - GROUND WIRE FOR 50' PRIMARY POLE
8	3'	72500611	#6 COPPER INSULATED TAP
8 ADD	35'	72500611	#6 COPPER INSULATED TAP FOR 35' SECONDARY POLE
8 ADD	50'	72500611	#6 COPPER INSULATED TAP FOR 50' PRIMARY POLE
9	1	17311000	CONNECTOR, GROUND, CRIMP
10	1	53828508	ROD, GROUND 8' x 5/8"

**ELECTRIC DEPARTMENT**

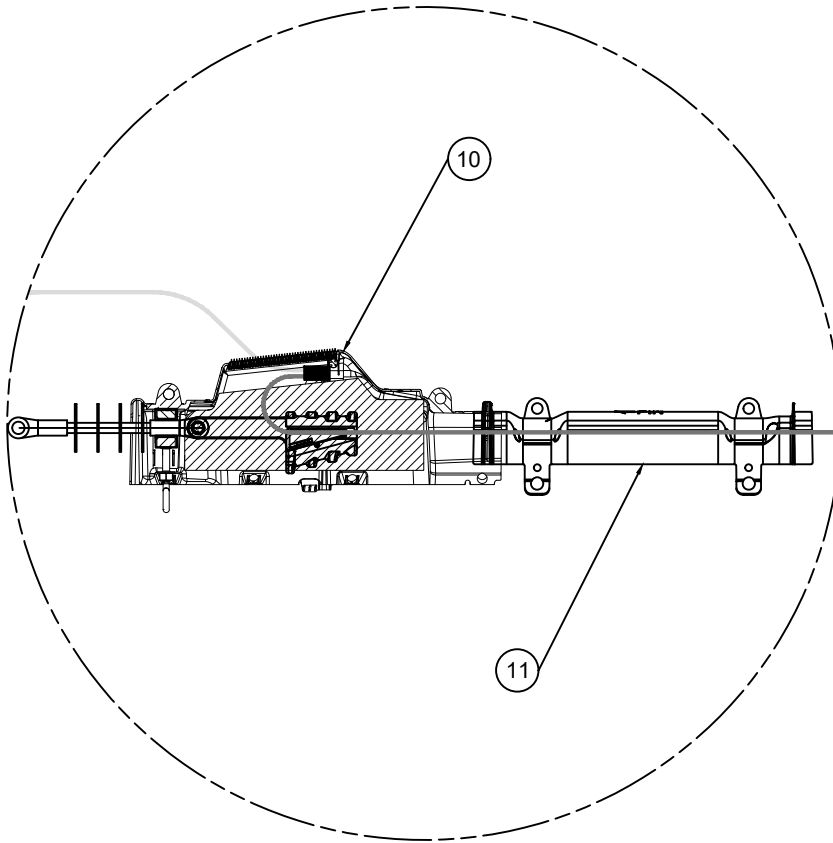
**3-Phase Line and Tap**

Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

Drawn	Design	Approved	Date	Rev	Category	Voltage	C6	SHEET
JM	NV5	SM	05/01/2026	0	3 PH Overhead	7.2/15kV		



DETAIL DE  
WEDGE DEADEND

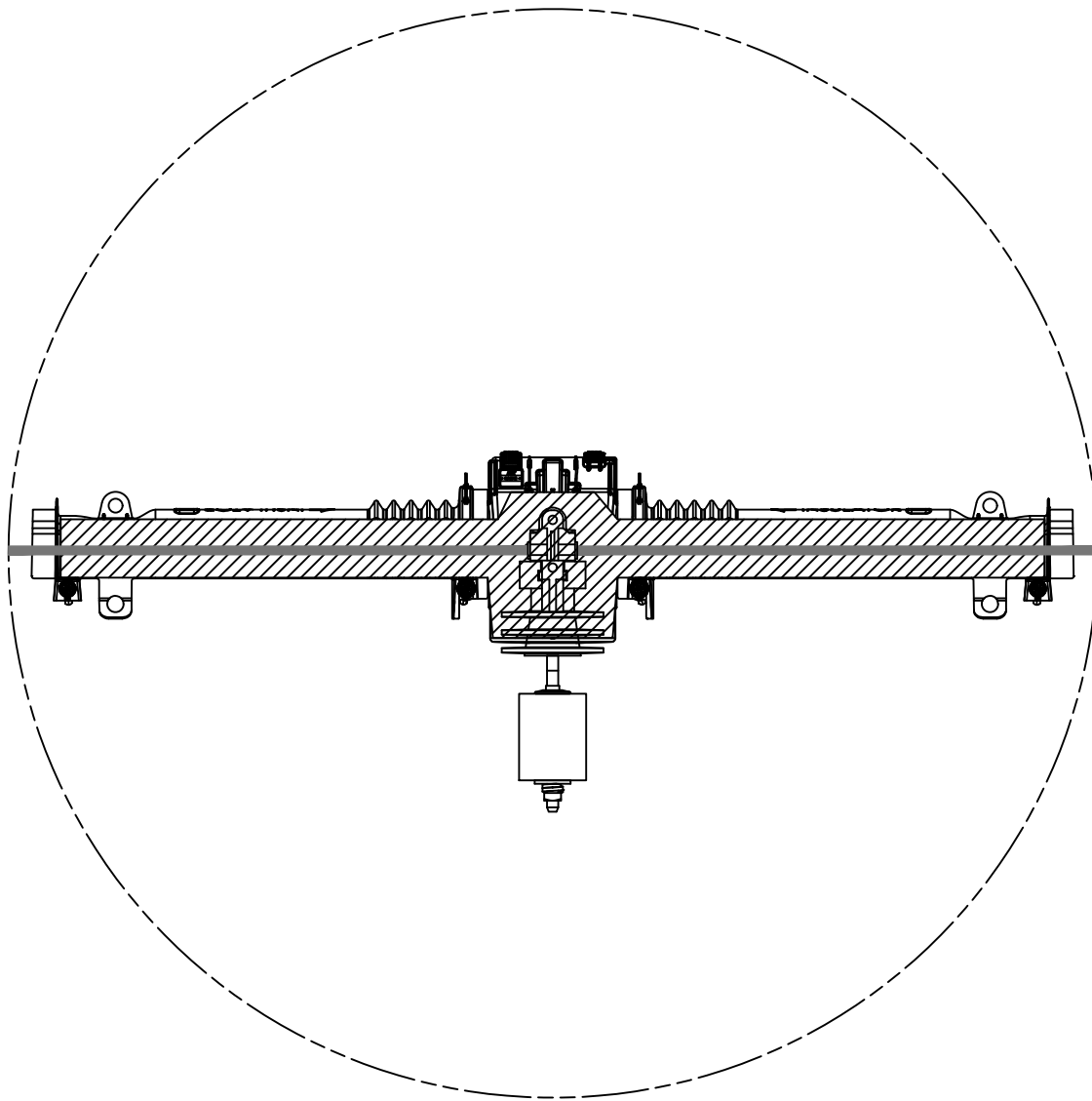


DETAIL DE W/DEADEND GUARD  
RELIAGUARD COVERS

**DEADEND DETAIL**

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	DE	SHEET
JM	NV5	SM	02/13/26	0		7.2/15kV		



DETAIL A W/INSULATOR GUARD  
 30 DEGREES MAX CONDUCTOR ANGLE.

**TANGENT COVER DETAIL**

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	TAN	SHEET
JM	NV5	SM	02/13/26	0		7.2/15kV		

## Secondary Connection Parts List

### Secondary - Steel Structures - Tangent

Item	Description	Quantity	Salvage	Design T...	Design Code
72500611	#6 COPPER INSULATED TAP	3.000	<input type="checkbox"/>		
71020471	* WASHER, 5/8" DOUBLE COIL, SPRING LOCK	1.000	<input type="checkbox"/>		
34263010	* INSULATOR, SPOOL 3"	2.000	<input type="checkbox"/>		
18049628	CONNECTOR, CU GROUND (EXTERNAL THREAD)	1.000	<input type="checkbox"/>		
12301901	CLEVIS, POLE RIGID	2.000	<input type="checkbox"/>		
11780059	AMPACT - 2/0 ACSR TO #6 COPPER	1.000	<input type="checkbox"/>		
11780056	AMP 83364-1	4.000	<input type="checkbox"/>		
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor
11780050	AMPACT MINIWEDGE 200AMP,2/0-2/0	3.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Wire	W402 - Conductor - ACSR - 4/0
6380514	BOLT, MACHINE, 5/8" X 14"	1.000	<input type="checkbox"/>	Pole	PH2 - Pole - Class - H2
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Miscellaneous	W2 - #2 ACSR Conductor Indicator
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Miscellaneous	W20 - #2/0 ACSR Conductor Indicator
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Miscellaneous	W40 - #4/0 ACSR Conductor Indicator

### Secondary - Steel Structures - Deadend

Item	Description	Quantity	Salvage	Design T...	Design Code
11780056	AMP 83364-1	1.000	<input type="checkbox"/>		
11780059	AMPACT - 2/0 ACSR TO #6 COPPER	1.000	<input type="checkbox"/>		
12301901	CLEVIS, POLE RIGID	1.000	<input type="checkbox"/>		
18049628	CONNECTOR, CU GROUND (EXTERNAL THREAD)	1.000	<input type="checkbox"/>		
34263010	* INSULATOR, SPOOL 3"	1.000	<input type="checkbox"/>		
71020471	* WASHER, 5/8" DOUBLE COIL, SPRING LOCK	1.000	<input type="checkbox"/>		
72500611	#6 COPPER INSULATED TAP	3.000	<input type="checkbox"/>		
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Wire	W402 - Conductor - ACSR - 4/0
6380514	BOLT, MACHINE, 5/8" X 14"	1.000	<input type="checkbox"/>	Pole	PH2 - Pole - Class - H2

### Secondary - Steel Structures - Buck

Item	Description	Quantity	Salvage	Design T...	Design Code
11780056	AMP 83364-1	4.000	<input type="checkbox"/>		
11780059	AMPACT - 2/0 ACSR TO #6 COPPER	1.000	<input type="checkbox"/>		
12301901	CLEVIS, POLE RIGID	2.000	<input type="checkbox"/>		
18049628	CONNECTOR, CU GROUND (EXTERNAL THREAD)	1.000	<input type="checkbox"/>		
34263010	* INSULATOR, SPOOL 3"	2.000	<input type="checkbox"/>		
71020471	* WASHER, 5/8" DOUBLE COIL, SPRING LOCK	2.000	<input type="checkbox"/>		
72500611	#6 COPPER INSULATED TAP	3.000	<input type="checkbox"/>		
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Wire	W402 - Conductor - ACSR - 4/0
11780050	AMPACT MINIWEDGE 200AMP,2/0-2/0	3.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
6380514	BOLT, MACHINE, 5/8" X 14"	2.000	<input type="checkbox"/>	Pole	PH2 - Pole - Class - H2
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Miscellaneous	W2 - #2 ACSR Conductor Indicator
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Miscellaneous	W20 - #2/0 ACSR Conductor Indicator
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Miscellaneous	W40 - #4/0 ACSR Conductor Indicator

### Secondary - Service

Item	Description	Quantity	Salvage	Design Type	Design Code
11780056	AMP 83364-1	3.000	<input type="checkbox"/>		
11780030	W-20, SERVICE WEDGE, 2/0-4/0	1.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11780050	AMPACT MINIWEDGE 200AMP,2/0-2/0	3.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11780027	W-20, SERVICE WEDGE, 2/0	1.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor
11780051	AMPACT MINIWEDGE 200AMP,2/0-#2	3.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor

### Secondary - Midspan

Item	Description	Quantity	Salvage	Design Type	Design Code
60690000	* SPREADER, CABLE	1.000	<input type="checkbox"/>		
72300401	* WIRE, #4 SOFT DRAWN ALUMINUM	3.000	<input type="checkbox"/>		

## Secondary Connection Parts List - How To Read List

### Secondary - Steel Structures - Tangent

Not all parts on this list will be used. Design Table are how "Alt1/2" are selected in pole top standards.

If Design Table is empty, those parts will be used.

Number of parts to get.

Item	Description	Quantity	Salvage	Design T...	Design Code
72500611	#6 COPPER INSULATED TAP	3.000	<input type="checkbox"/>		
71020471	* WASHER, 5/8" DOUBLE COIL, SPRING LOCK	1.000	<input type="checkbox"/>		
34263010	* INSULATOR, SPOOL 3"	2.000	<input type="checkbox"/>		
18049628	CONNECTOR, CU GROUND (EXTERNAL THREAD)	1.000	<input type="checkbox"/>		
12301901	CLEVIS, POLE RIGID	2.000	<input type="checkbox"/>		
11780059	AMPACT - 2/0 ACSR TO #6 COPPER	1.000	<input type="checkbox"/>		
11780056	AMP 83364-1	4.000	<input type="checkbox"/>		
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Wire	W2 - #2 ACSR Conductor
11780050	AMPACT MINIWEDGE 200AMP, 2/0-2/0	3.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Wire	W20 - 2/0 ACSR Conductor
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Wire	W402 - Conductor - ACSR - 4/0
6380514	BOLT, MACHINE, 5/8" X 14"	1.000	<input type="checkbox"/>	Pole	PH2 - Pole - Class - H2
11773023	* PREFORM, #2 DG-4542	1.000	<input type="checkbox"/>	Miscellaneous	W2 - #2 ACSR Conductor Indicator
11773026	PREFORM, 2/0	1.000	<input type="checkbox"/>	Miscellaneous	W20 - #2/0 ACSR Conductor Indicator
11773030	* PREFORM, 4/0	1.000	<input type="checkbox"/>	Miscellaneous	W40 - #4/0 ACSR Conductor Indicator

Design Table can have 1 of 5 values.

1. Blank
2. Pole
3. Wire
4. Neutral
5. Miscellaneous

For Design Table Wire, look in Design Code and select only 1 code. Codes are always "XXX" - "Description" Use the "XXX".

For example, "W20" is going to be used. You must grab all parts that have "W20". In this case, there are 2 parts.

See next sheet for an example

## How to select parts for a #4/0 to #2/0 tangent application

Get all parts without a design code:

72500611 - 3 feet of copper tap wire (this is for grounding on the pole)  
71020471 - 1  
34263010 - 2  
18049628 - 1 (the grounding bolt that threads into secondary)  
12301901 - 1  
11780059 - 4 (an ampact mini wedge cover for ground and three wires)

Select 1 design code from the Wire category and get all parts from it.

W20 - Reading the descriptions, this says 2/0

11780050 - 3

11773026 - 1

Select 1 design code from the Pole category

PH2

6380514 - 1

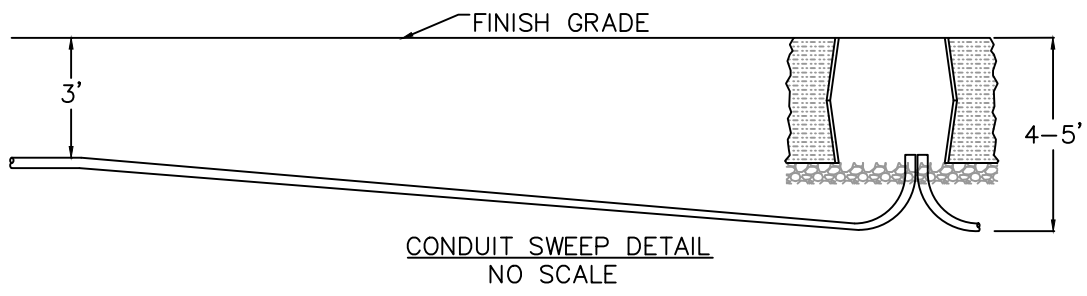
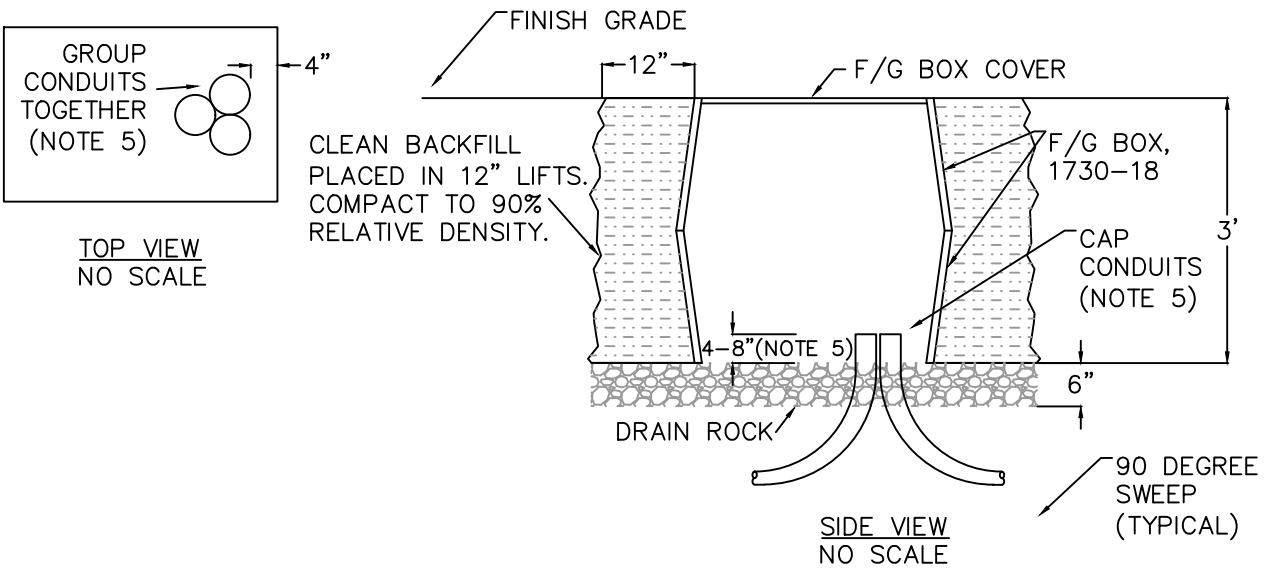
Select 1 design code from the Miscellaneous category

W40 - Reading the descriptions, this says 4/0

11773030 - 1

\*\*\*The parts list has mini wedges for 2/0 ACSR to 2/0 ACSR\*\*\*?

Yes, this is an in progress list. Since this situation is rare it is lower on the priority list for fixes. Always check equipment prior to use. We have #4/0 to #2/0 mini wedges in the warehouse. Substitute those instead.



**INSTALLATION NOTES:**

1. CUSTOMER TO CONFIRM WITH TDPUD PERSONNEL APPROPRIATE TYPE OF SECONDARY OR COMMUNICATION BOX CONSTRUCTION PRIOR TO INSTALLATION.
2. EXCAVATE TO A MINIMUM OF 12" BEYOND THE OUTSIDE DIMENSION OF THE BOX. INSTALL BOX ON A MINIMUM OF 6" DRAIN ROCK BEDDING.
3. INSTALL CLEAN BACKFILL (SCREEN AS REQUIRED) AND COMPACT IN 12" LIFTS. NO ROCKS OVER 3" IN SIZE ARE PERMITTED IN CLEAN BACKFILL. COMPACT TO A MINIMUM OF 90% RELATIVE DENSITY. COMPACTION TESTING AND DOCUMENTATION OF RESULTS TO BE PERFORMED AS REQUESTED BY THE DISTRICT.
4. THE COMPLETED INSTALLATION OF A SECONDARY OR PUD COMM BOX CONSISTS OF TWO (2) MODEL 1730-18 (OR 1324-15 IF SPECIFIED) F/G BOXES JOINED TOGETHER AS SHOWN WITH A CORRESPONDING SIZE COVER MARKED "ELECTRIC" OR "PUD COMM" AS APPROPRIATE.
5. INSTALL THE ENDS OF ALL CONDUIT STUBS VERTICALLY INTO THE BOX, PLUMB AND LEVEL. CUTS ARE NOT PERMITTED ON THE BENT PART OF CONDUIT SWEEPS. LENGTH OF CONDUIT STUBS TO BE DETERMINED WITH TDPUD PERSONNEL. INSTALL BELL ENDS ON ALL CONDUIT SWEEPS STUBBED IN BOX.

UBOX-S1.DWG



**ELECTRIC DEPARTMENT**

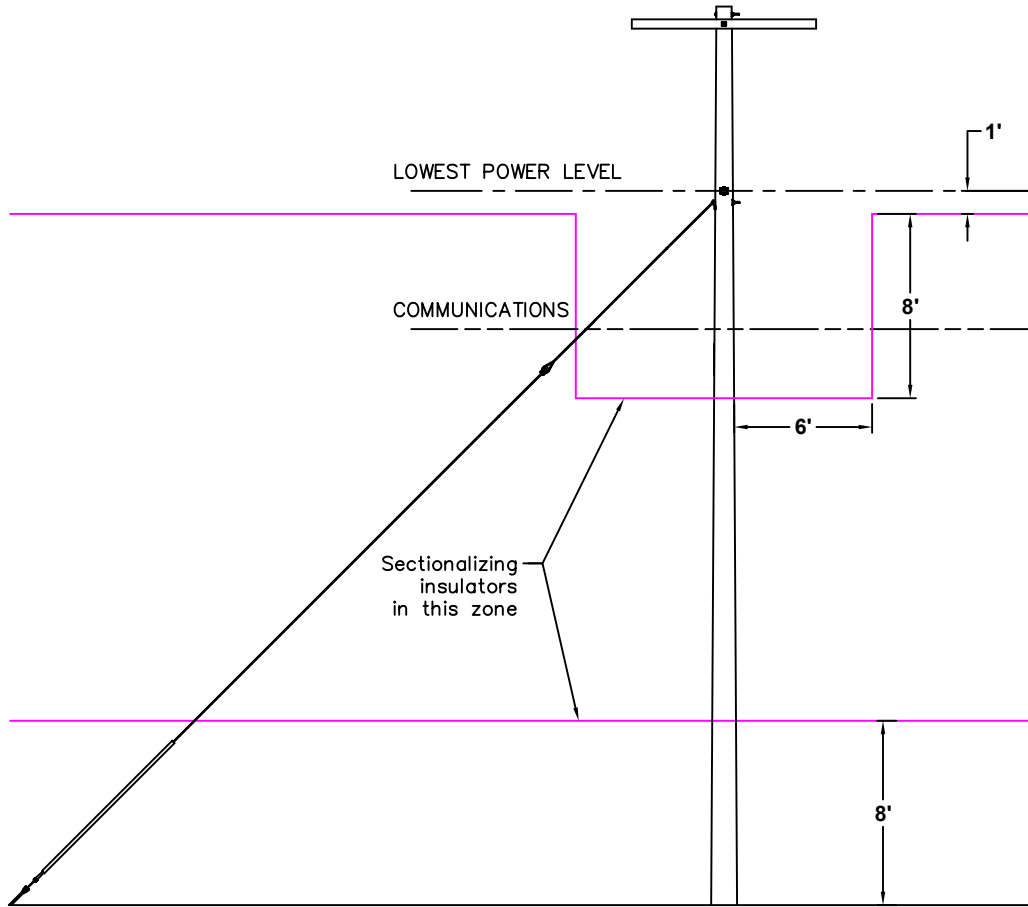
**Secondary & PUD Communication Box**

Fiberglass Box Installation Detail

Non-Traffic Use Only

Drawn	Design	Approved	Date	Category	Voltage	UBOX-S1
JJC	SMS	SMS	3/25/21	Vaults & Boxes	Site Work	

REV	DATE/BY	DESCRIPTION
0	5/24/06	INITIAL RELEASE
1	08/04/20 TR	UPDATED MATR'L CALLOUTS & PARTS LIST, ADD SECTIONALIZING ZONE ILLUSTRATION

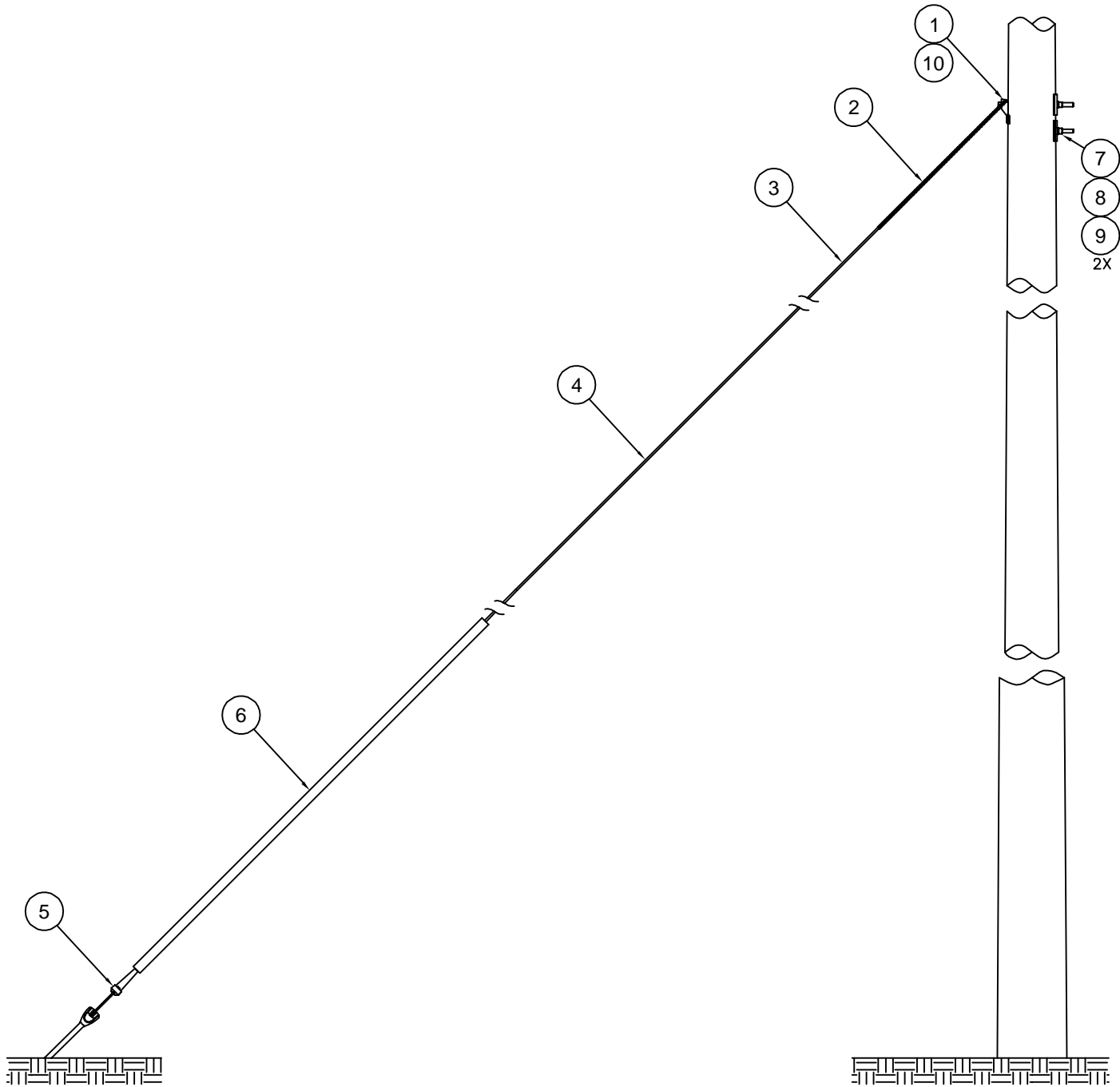


**ELECTRIC DEPARTMENT**

## Single Down Guy

Drawn	Design	Approved	Date	Rev	Category	Voltage	E11	SHEET
SMS	JAH	JW	5/24/06	1	Guys & Anchors			2 of 2

E11\_R1.DWG



## Down Guy Attachment

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	<b>DG</b>	SHEET
JM	NV5	SM	03/23/2026	0	Guys	7.2/15kV		1 of 2

3/8 DOWN GUY			
ITEM	QTY	ITEM#	MATERIAL
1	1	2150301	Guy Attachment – Steel Pole
1 ALT	1	2150300 ALT	Guy Attachment – Wood Pole
2	1	34277633	Insulator – Guy Rod
3	1	11772085	Preform Guy Grip – 3/8"
4	1	73868307	EHS Guy Wire – 3/8 Length as Needed
5	1	11752087	Automatic Guy – 3/8"
6	1	29300855	Guy Guard – Plastic
7	2	6380614	Bolt – Machine – 3/4" x 14" FOR 50' POLE PRIMARY ATTACHMENTS FOR 35' POLE SECONDARY ATTACHMENTS
7 ALT	2	6380616	BOLT – MACHINE – 3/4" X 16" FOR 50' POLE SECONDARY ATTACHMENTS
8	2	41011543	Washer – Double Spring Coil – 3/4"
9	2	71013071	Washer – Curved 4" x 4"
10	2	2150302	ANCHOR SHACKLE – 30K LB AS NEEDED

1/2 DOWN GUY			
ITEM	QTY	ITEM#	MATERIAL
1	N/A	N/A	Crossarm Attachment Only
2	1	34277633	Insulator – Guy Rod
3	1	11772088	Preform Guy Grip – 1/2"
4	1	73862107	EHS Guy Wire – 1/2 Length as Needed
5	1	11752090	Automatic Guy – 1/2"
6	1	29300855	Guy Guard – Plastic
7	N/A	N/A	Bolt – Machine – 3/4" x X"
8	N/A	41011543	Washer – Double Spring Coil – 3/4"
9	N/A	71013071	Washer – Curved 4" x 4"
10	2	2150302	ANCHOR SHACKLE – 30K LB AS NEEDED

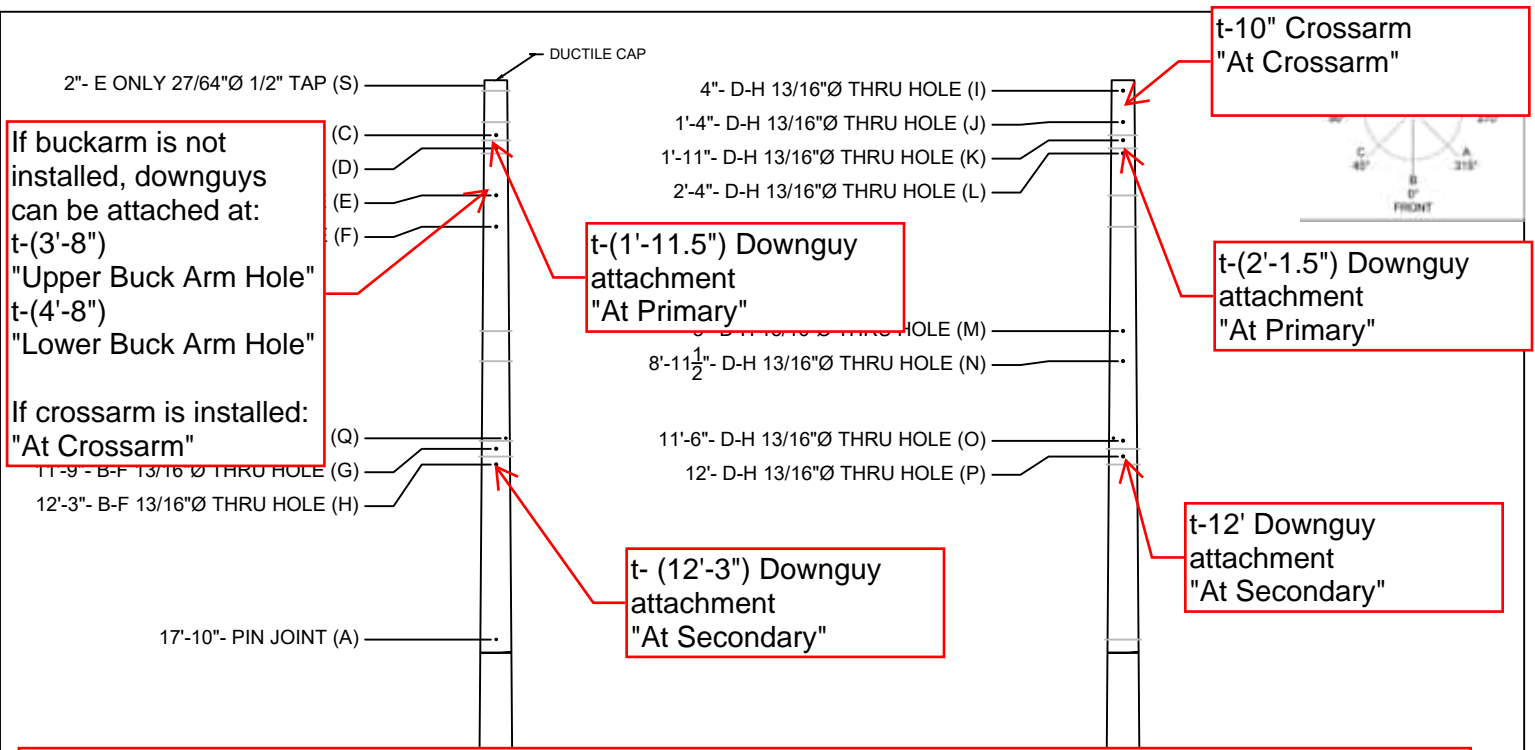
7/16 DOWN GUY			
ITEM	QTY	ITEM#	MATERIAL
1	1	2150301	Guy Attachment – Steel Pole
1 ALT	1	2150300 ALT	Guy Attachment – Wood Pole
2	1	34277633	Insulator – Guy Rod
3	1	11772086	Preform Guy Grip – 7/16"
4	1	73868308	EHS Guy Wire – 7/16 Length as Needed
5	1	11752088	Automatic Guy – 7/16"
5 ALT	1	11752089 ALT	Automatic Guy – 7/16" – Long
6	1	29300855	Guy Guard – Plastic
7	2	6380614	Bolt – Machine – 3/4" x 14" FOR 50' POLE PRIMARY ATTACHMENTS FOR 35' POLE SECONDARY ATTACHMENTS
7 ALT	2	6380616	BOLT – MACHINE – 3/4" X 16" FOR 50' POLE SECONDARY ATTACHMENTS
8	2	41011543	Washer – Double Spring Coil – 3/4"
9	2	71013071	Washer – Curved 4" x 4"
10	2	2150302	ANCHOR SHACKLE – 30K LB AS NEEDED

**ELECTRIC DEPARTMENT**

**Down Guy Attachment**  
Single Fiberglass Crossarm, Reliaguard Added  
Neutral on Crossarm

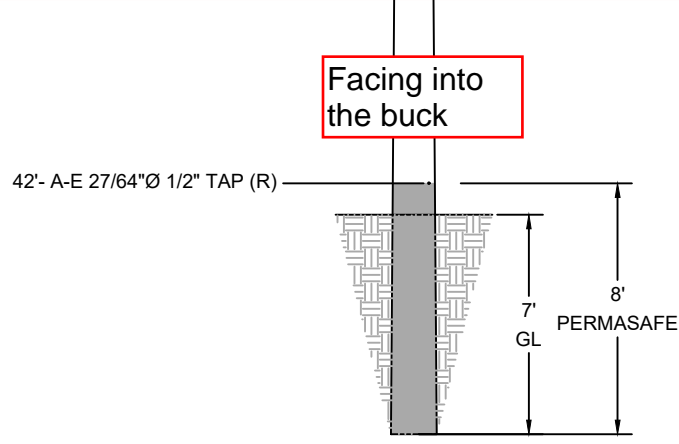
Drawn	Design	Approved	Date	Rev	Category	Voltage	DG	SHEET
JM	NV5	SM	03/23/2026	0	Guys	7.2/15kV		

NewStandard.DWG

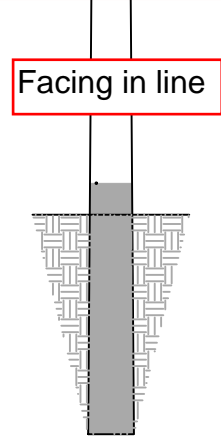


This attachment is to translate the text description from the location specific instructions.

Guying will read as:  
 "At Primary"  
 "At Crossarm"  
 "At Secondary"  
 "At Upper/Lower Buck Arm Hole" This will require crews to drill a second hole as each downguy attachment requires 2 holes.  
 or specific heights above/below one of the 3 descriptions.



B QUADRANT



H QUADRANT

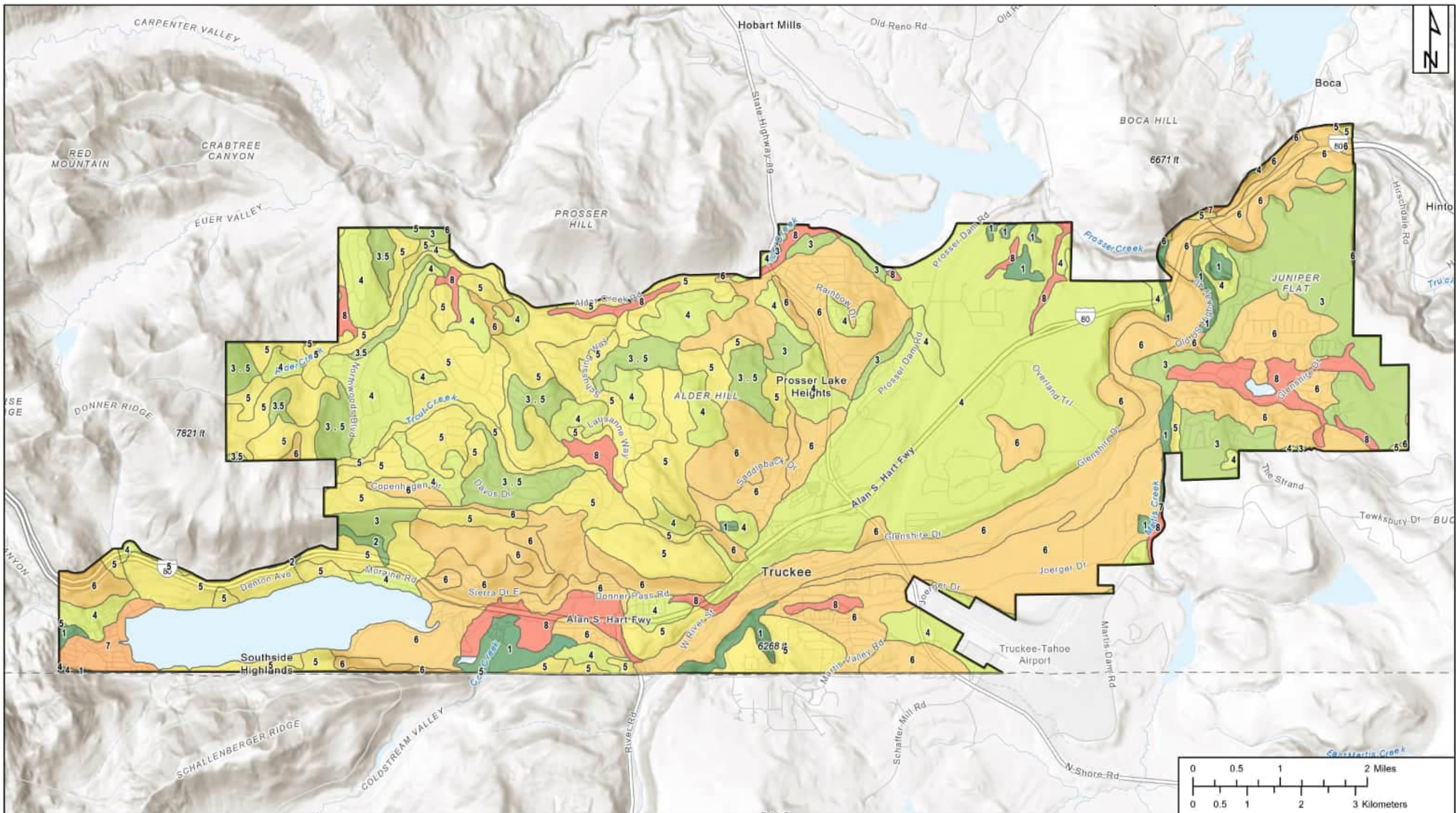
APPROVED  
 REVISE AND RESUBMIT  
 BUYER'S APPROVAL OF DRAWINGS IS DEFINITIVE APPROVAL OF ALL ITEMS REQUIRED FOR PRODUCTION. SELLER WILL NOT BE RESPONSIBLE FOR INCORRECT MEASUREMENTS, FINISH, CLASS, COATING, SIZE OF DRILLED HOLES IF MANUFACTURED ACCORDING TO APPROVED DRAWINGS.  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

POLE SPECS			
TIP LOAD (KIPS)	4.16	GL CAPACITY (KIP-FT)	170.6
TIP DIA. (IN)	8.7	APPROX. BASE DIAMETER (IN)	17.5
WEIGHT (LBS)	2670	2 PIECE POLE	No
GROUND PLATES:	No	HOLE PLUGS:	No



CLASS:	H2
LENGTH:	50
QUANTITY:	80
CAP:	Ductile
HOLE COUNT:	37
DRAWN BY:	LNB
DRAWN ON:	5-30-2025
CUSTOMER:	TDPUD

DWG# 3224B	
FINISH:	Weathered
NOT TO SCALE	REVISION
SHEET 1 OF 1	



### Soil Classification Map

This map provides a generalized soil classification intended for use with the Chance Anchoring Products holding capacity chart. Soil classifications were developed through interpretation and reclassification of the USDA Web Soil Survey map units to support preliminary evaluation of subsurface anchoring conditions. Soil unit boundaries and classifications are approximate and should be considered a planning-level guide only. Field verification is recommended to confirm local conditions prior to installation. (U.S. Department of Agriculture, Natural Resources Conservation Service. (2025). Web Soil Survey. Retrieved October 8, 2025, from <https://websoilsurvey.sc.egov.usda.gov/>)  
 Disclaimer: No warranty of accuracy, completeness, or suitability for a particular purpose is expressed or implied in the use of this map.



PROJECT NO. 1947.00

TDPUD

# HOLDING CAPACITY CHARTS

## CHANCE® ANCHORING PRODUCTS

### SOIL CLASSIFICATION CHART

#### SOIL CLASSIFICATION DATA

Class	Common Soil-Type Description	Geological Soil Classification	Probe Values ft.-lbs. in.-lbs. (NM)	Typical Blow Count “N” per ASTM-D1586
0	Sound hard rock un-weathered (bedrock)	Granite, Basalt, Massive Limestone	N.A.	N.A.
1	Very dense and/or cemented sands; coarse gravel and cobbles	Caliche, (Nitrate-bearing gravel/rock)	63 - 133	60-100+
			750 - 1600	
			(85-181)	
2	Dense fine sands; very hard silts and clays (may be preloaded)	Basal till; boulder clay; caliche; weathered laminated rock	50 - 63	45-60
			600 - 750	
			(68-85)	
3	Dense sands and gravel; hard silts and clays	Glacial till; weathered shales, schist, gneiss and siltstone	42 - 50	35-50
			500 - 600	
			(56 - 68)	
4	Medium dense sand and gravel; very stiff to hard silts and clays	Glacial till; hardpan; marls	33 - 42	24-40
			400 - 500	
			(45 - 56)	
5	Medium dense coarse sands and sandy gravels; stiff to very stiff silts and clays	Saprolites, residual soils	25 - 33	14-25
			300 - 400	
			(34 - 45)	
6*	Loose to medium dense fine to coarse sands to stiff clays and silts	Dense hydraulic fill; compacted fill; residual soils	17 - 25	7-14
			200 - 300	
			(23 - 34)	
7	Loose fine sands; Alluvium; loess; medium - stiff and varied clays; fill	Flood plain soils; lake clays; adobe; gumbo, fill	8 - 16	4-8
			100 - 200	
			(11 - 23)	
8	Peat, organic silts; inundated silts, fly ash very loose sands, very soft to soft clays	Miscellaneous fill, swamp marsh	<8	0-5
			<100	
			(0 - 11)	

Class 1 soils are difficult to probe consistently and the ASTM blow count may be of questionable value.

\*In areas only seasonally wet with slow drain as in fairly flat terrain.

POWER-INSTALLED SCREW ANCHORS (PISA®)  
HOLDING CAPACITY/INSTALLING TORQUES

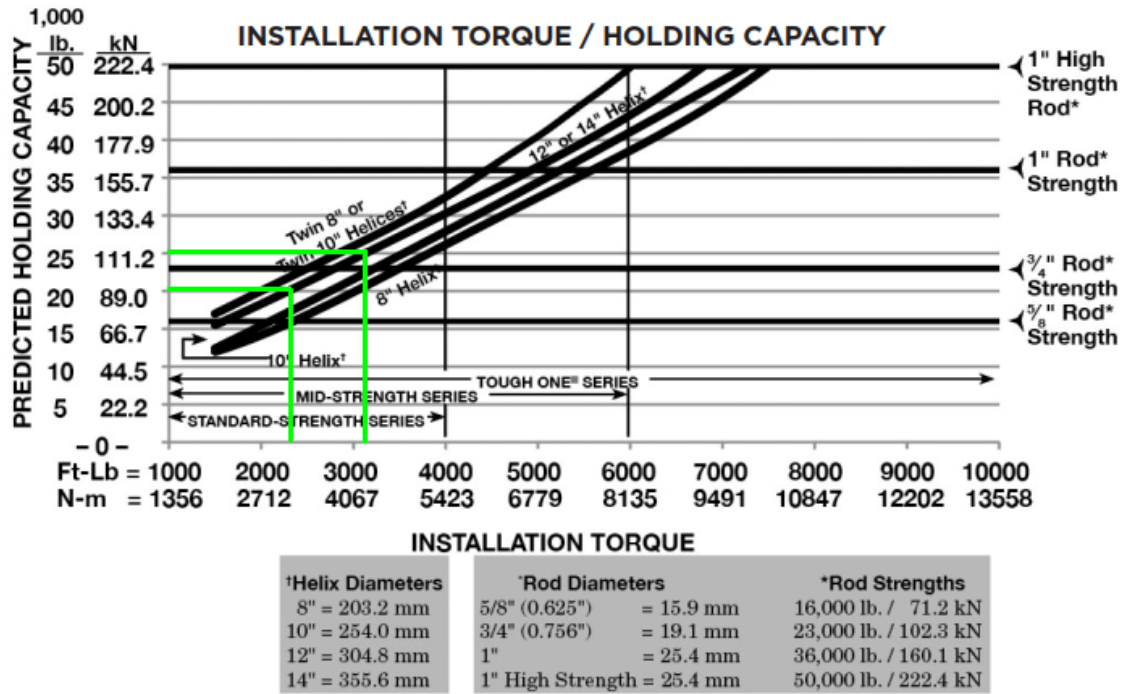
12" Helix stocked anchor:  
Hubbell 12" HUBBELL C1025002

Torque must be met to achieve predicted holding capacity.

20M = 20,000 LBS  
2,500 Ft-Lbs of torque

25M = 25,000 LBS  
3,500 Ft-Lbs of torque

UNDER NO CIRCUMSTANCE SHOULD THE ROD AND GUY STRAND  
JOIN AT AN ANGLE OF DEPARTURE EXCEEDING ± 5° ON PISA ANCHORS.



Predicted ultimate holding capacities are based on results of extensive Chance tests and interpretation and are offered as an application guide only. They do not represent a guarantee of holding capacity in a particular soil class. A user must factor in his individual, appropriate safety factor. Torque values shown are steady values in homogeneous soils, not peak values that might occur in non-homogeneous soil. Torque values shown were obtained by averaging readings from the last 2 feet of anchor penetration. The anchor shaft must be aligned with the guy load to prevent premature failure of the rod. Under no circumstance should the rod and guy strand join at an angle of departure exceeding ± 5° on PISA anchors.

**CAUTION: ALL COMPONENTS OF THE CHANCE ANCHORING SYSTEM ARE PERFORMANCE MATED. USE OF OTHER ANCHORING PRODUCTS OR EQUIPMENT WILL NOT NECESSARILY PRODUCE THE SAME RESULTS.**

**Screw Anchor**

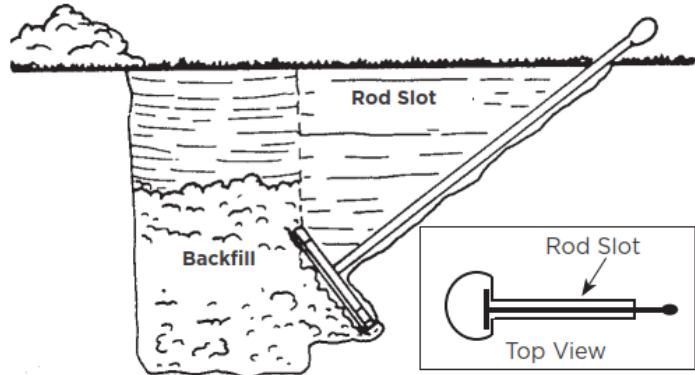
**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	SHEET
JM	NV5	SM	03/23/2026	0	Anchors	7.2/15kV	1 of 1

# Cross-Plate Anchor

The Cross-Plate anchor is made for installation in holes drilled by power diggers. Because the size of the hole does not affect holding capacity, the hole can be dug by the same auger that is used to dig the pole holes on transmission projects.

Cross-Plate anchors are installed in a diagonal bored hole which is undercut so the anchor is at right angles to the guy. A rod trench is either cut with a trenching tool or drilled with a small power auger. Both anchor and rod trench should be refilled and tamped.



## Application and Ordering Information

Catalog Number	Hole Size	Approx. Wt. Each Lbs.(Kg)	Area Sq. In.	Rod Size (order separately)	Holding Capacity‡ - (lbs.) (No Safety Factors Included) vs Soil Class				
					Class 3	Class 4	Class 5	Class 6	Class 7
X16	16"	10.0 (4.5)	150	5/8", 3/4"	26500‡	22500‡	18500‡	14500	9500
X20	20"	15.9 (7.2)	250	5/8", 3/4"	26500‡	22500‡	18500‡	14500	9500
X201	20"	15.5 (7.0)	250	1"	34000‡	29000‡	24000‡	19000‡	14000
X2434*	24"	34.8 (15.8)	400	5/8", 3/4"	34000	29000	24000	19000	14000
X24	24"	34.8 (15.8)	400	1"	45000‡	37000‡	30000‡	23500‡	18000‡
X241	24"	35.0 (15.9)	400	1 1/4"	45000‡	37000‡	30000	23500	18000

Holding capacities are ultimate values. An appropriate factor of safety should be used to determine the allowable or service load. Hubbell Power Systems, Inc. recommends a factor of safety of at least 2 for permanent structures

For Class 3, 4, 5, and 6 soils, the depth required to achieve the holding capacities listed in the table is 5 vertical feet to the center of the plate. For Class 7 soils, the depth required is 7 vertical feet to the center of the plate.

‡ Ultimate strength of rod may limit holding capacity.

\* RUS Listed.

Note: Capacity ratings apply to properly installed anchors only.

Failure to install within 5° of alignment with the guy load will significantly lower strength.

Plate Anchor Installation Standard – Rated for 25M applications.

Anchor stocked is X241

<b>ELECTRIC DEPARTMENT</b>					<b>Plate Anchor</b>				
<b>Drawn</b>	<b>Design</b>	<b>Approved</b>	<b>Date</b>	<b>Rev</b>	<b>Category</b>	<b>Voltage</b>			<b>SHEET</b>
JM	NV5	SM	03/23/2026	0	Anchors	7.2/15kV			1 of 1

# Secondary Riser

## Current Standard

Secondary risers consist of the following. 3" conduit made of 10' lengths. The top section of conduit will have a "end bell" placed on it to protect against sharp edges of conduit. Each length of conduit is secured with (2) Alumaform brackets. Each bracket will be secured with either (1) machined bolt in a drill/tap method or (1) bolt drilled through the pole. Each bracket will secure the conduit with a 3" strap. Choice of securing the bracket to the metal pole is left to field crews.

- (3) 10' Lengths of 3" conduit
- (1) End Bell
- (6) Alumaform Brackets
- (6) 3" Conduit Straps
- (6) Drill and Tap screws or Lag bolts

## Transfer

Existing riser is at current standard and will need to be transferred to metal pole.

Existing risers can have up to 6 brackets and will require 6 sets of mounting bolts. Each section of conduit requires (2) mounting brackets. If the required number of brackets are not present based on number of conduit pieces, additional brackets will need to be installed.

Existing risers can have up to 3 sections of conduit, but field conditions can vary.

Choice of mounting is left for field crews to determine.

1. Drill and Tap
  - (6) 1/2" 13 - 2 1/2"
  - (6) 1/2" 2.25" x 2.25" Washers
  - Washers are placed between bolt head and bracket body
2. Drill and Bolt
  - (2) 5/8 x 14" Bolts
  - (2) 5/8 x 16" Bolts
  - (2) 5/8 x 18" Bolts
  - (6) 1/2" 2.25" x 2.25" Washers
  - (6) 5/8" Double Coil Lock Washers

## Rebuild

Existing riser is not at current standard and will need to be rebuilt for metal pole.

Existing riser may contain equipment that is part of the current standard, such as a riser that is made of 3" conduit and strapped to a pole. The existing conduit and straps may be used and only brackets will need to be installed.

Field conditions may exist such that adding brackets may not be possible. Coordinate with operations team for exceptions.

If existing rigid steel conduit sweep is less than 3", new 3" conduit will slide over existing metal conduit sweep so that no wire is exposed.

**EXPRESS**



## 1/2"-13 x 2-1/2" ASTM A307 Grade B Hot Dipped Galvanized Finish Heavy Hex Bolt

SKU 19113

UNSPSC 31161620

Manufacturer FASTENAL APPROVED VENDOR



Compare

### Compliance



#### REACH

This product is REACH compliant per the current ECHA's SVHC list and is not required to be registered with the Waste Framework Directives S.C.I.P. database.

### Resources

#### Documents

 [Fastenal Product Standard](#)

### Product Attributes

**System of Measurement**

Imperial (Inch)

**Dia/Thread Size**

1/2"-13

**Material**

Steel

**Type**

Heavy Hex Bolt

**Length**

2-1/2"

**Grade**

A307B

**Thread Type**

Coarse

**Thread Style**

Partial Thread

**Finish**

Hot Dip Galvanized



End Bell

Secondary Riser at current standard to transfer

3" Conduit

Alumaform Bracket  
Conduit Strap

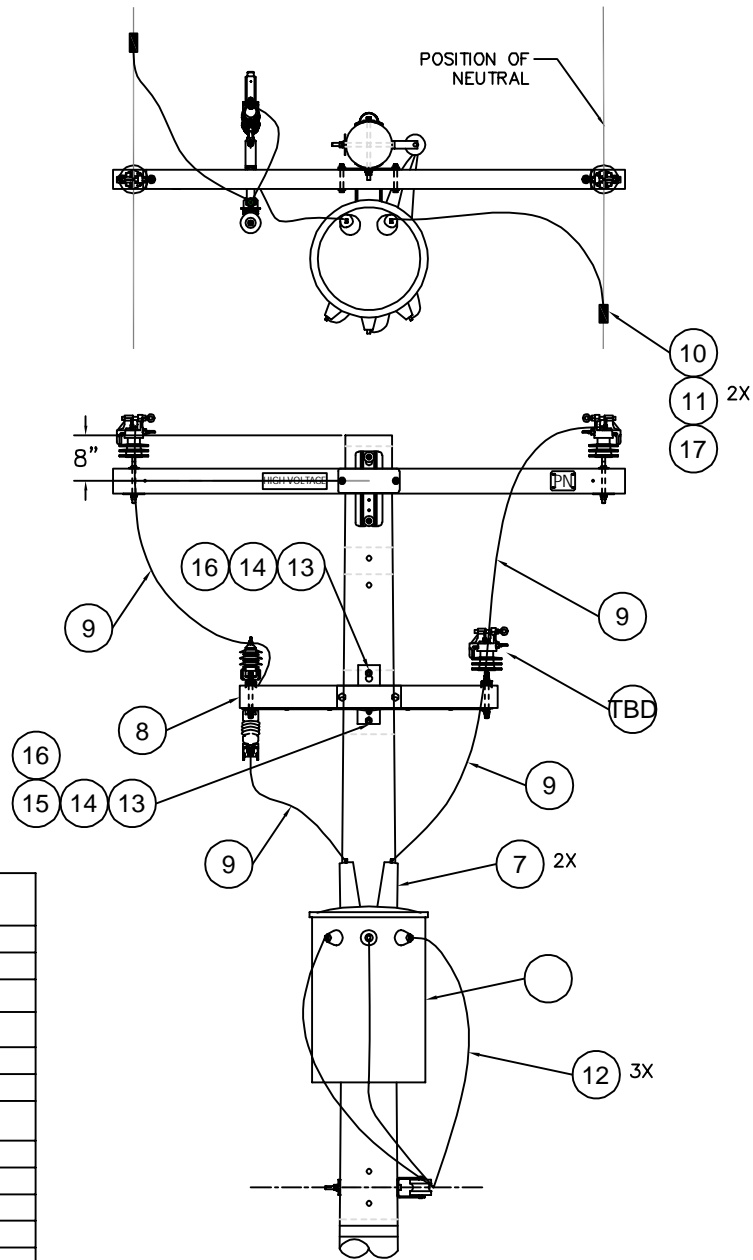
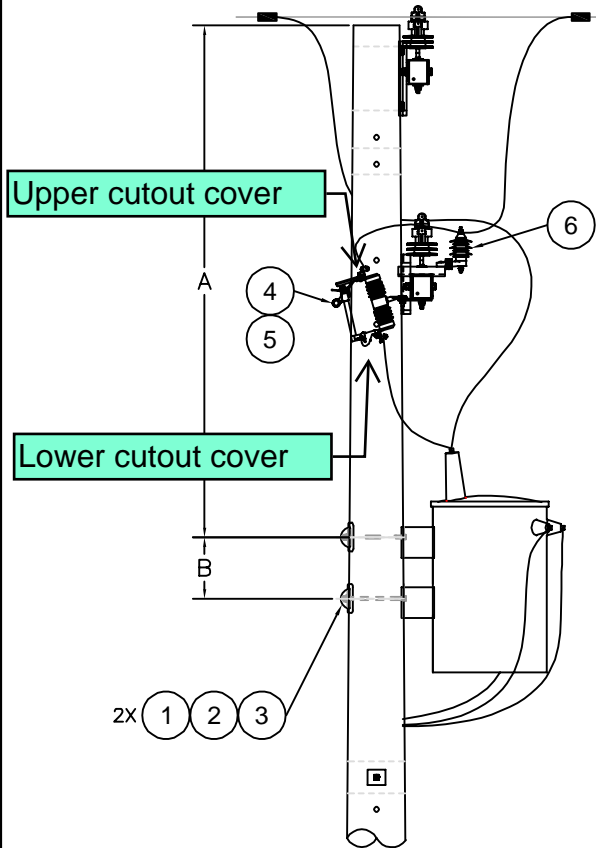
Rigid Steel Conduit  
Installed by customer

Secondary Riser not at current standard

Cable cover

Rigid metal sweep less than 3". New conduit to slide over existing.





ITEM	QTY	ITEM NO	MATERIAL
1	2	6380514	BOLT – MACHINE – 5/8" X 14"
2	2	71020441	WASHER – 2.25" X 2.25" SQUARE
2ALT	2	71011541	WASHER – 3" X 3" CURVED
3	2	71020471	WASHER – 5/8" DOUBLE COIL
4	1	Varies	FUSE – SPECIFIED ON PLAN
5	1	18312333	CUTOUT – 200A NON-LOADBREAK
6	1	1521002	ARRESTOR – 9KV
7	2	18056500	COVER BUSHING
8	1	18211018	4' EQUIPMENT ARM
9	26	72500611	#6 COPPER INSULATED TAP
10	2	11780053	AMPACT – STIRRUP – #1/0 WIRE
10 ALT	2	11780054	AMPACT – STIRRUP – 397 WIRE
11	2	66931513	LINE CLAMP GUARD (BAIL GUARD)
12	25	15622029	2/0 COPPER INSULATED TAP
13	2	6380614	BOLT – MACHINE – 3/4" X 14"
14	2	71011542	WASHER – 3" X 3" 3/4" HOLE
14 ALT	2	71013071	WASHER – 4" X 4" CURVED
15	1	940048	WASHER – ROUND – 3/4"
16	2	71011543	WASHER – 3/4" – DOUBLE COIL
17	2	17413920	CONNECTOR – HOTLINE CLAMP – 1/0
17 ALT	2	17415360	CONNECTOR – HOTLINE CLAMP – 397

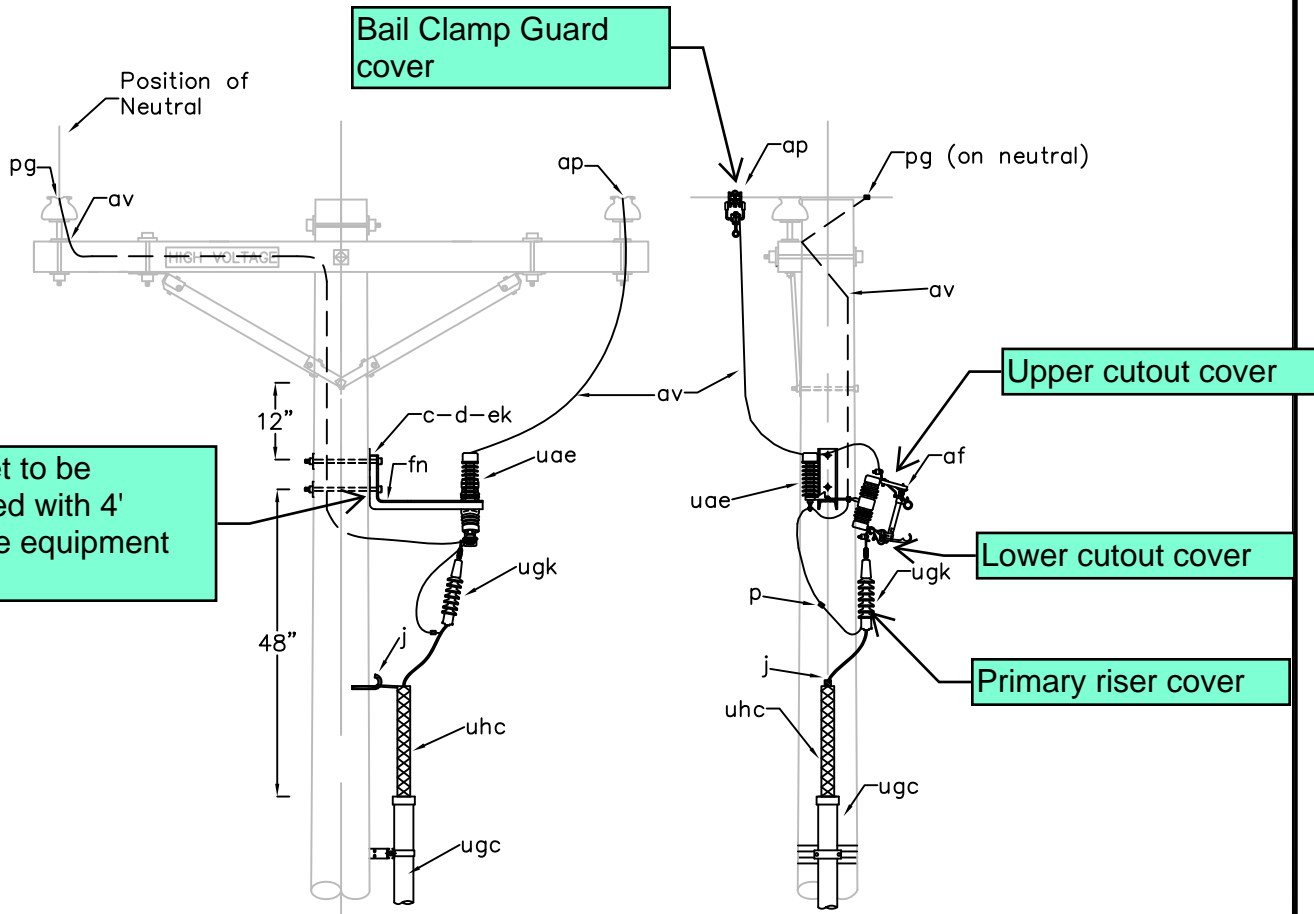
Not Shown:  
3 Phase transformer will be installed with 8' equipment arm.

TRANSFORMER	A	B
25 to 50 kV	59 1/4"	11 1/2"
75 kVA	56 3/4"	24"

## Single Phase Transformer 4 FOOT EQUIPMENT ARM

**ELECTRIC DEPARTMENT**

Drawn	Design	Approved	Date	Rev	Category	Voltage	T1	SHEET
JM	NV5	SM	03/23/2026	0	1 PH Overhead	7.2/15kV		1 of 1



Bracket to be replaced with 4' 1Phase equipment arm.

Bail Clamp Guard cover

Upper cutout cover

Lower cutout cover

Primary riser cover

ITEM	QTY	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length
d	4	Washer, square, 2 1/4"
j	1	Screw, J-Lag, 1/2" x 4" as req'd
p	1	Connector, compression, as req'd
af	1	Fuse Link
af	1	Cutout, Loadbreak, 100A or 200A as req'd
ap	1	Hot line clamp
av		Jumpers, as required
ek	4	Locknuts
fn	1	Bracket, cutout extension
pg	1	Parallel groove clamp (size as required)
uae	1	Surge arrester
ugc	1	Conduit, PVC, length as required
ugk	1	Cable termination
uhc	1	Cable support

**NOTES:**

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3 FEET.

UR1P.DWG

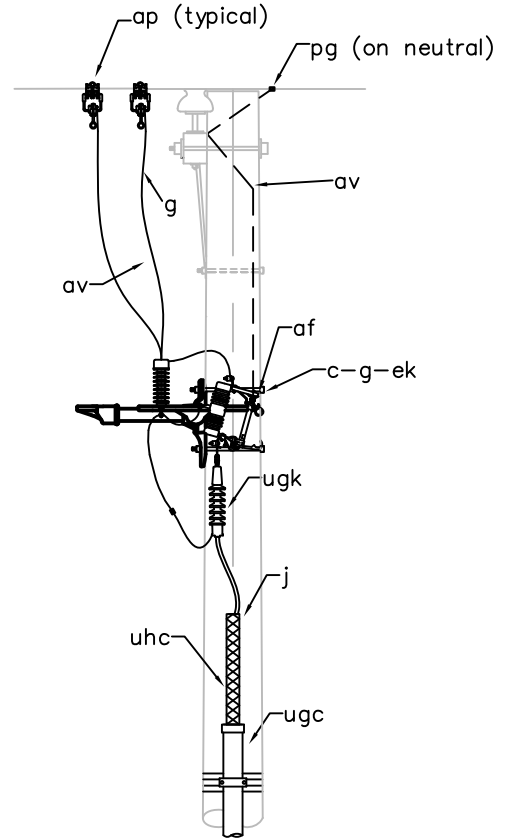
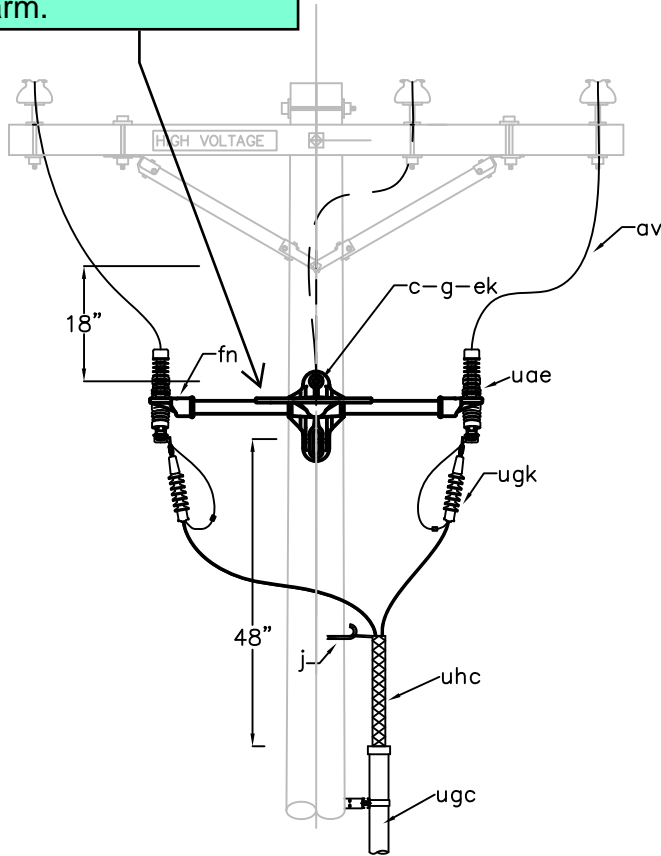


**ELECTRIC DEPARTMENT**

**Single Phase Primary Riser  
Bracket Construction**

Drawn	Design	Approved	Date	Category	Voltage	UR1P
SMS	JAH	JW	6/28/07	1 PH Risers	7.2/12.5kV	

Bracket to be replaced with 4' 1Phase equipment arm.



ITEM	QTY	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length
d	2	Washer, square, 2 1/4"
j	1	Screw, J-Lag, 1/2" x 4" as req'd
p	2	Connector, compression, as req'd
af	2	Fuse Link
af	2	Cutout, Loadbreak, 100A or 200A as req'd
ap	2	Hot line clamp
av		Jumpers, as required
ek	2	Locknuts
fn	1	Bracket, Fiberglass, Cutout/Arrestor
pg	1	Parallel groove clamp (size as required)
uae	2	Surge arrester
ugc	1	Conduit, PVC, length as required
ugk	2	Cable termination
uhc	2	Cable support

**NOTES:**

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3 FEET.

**Not Shown:**  
 Riser to be installed with 4' equipment arm.  
 Fuse cutout installed on equipment arm.  
 See Single Phase Primary Riser for cover requirements.

UR2P.DWG



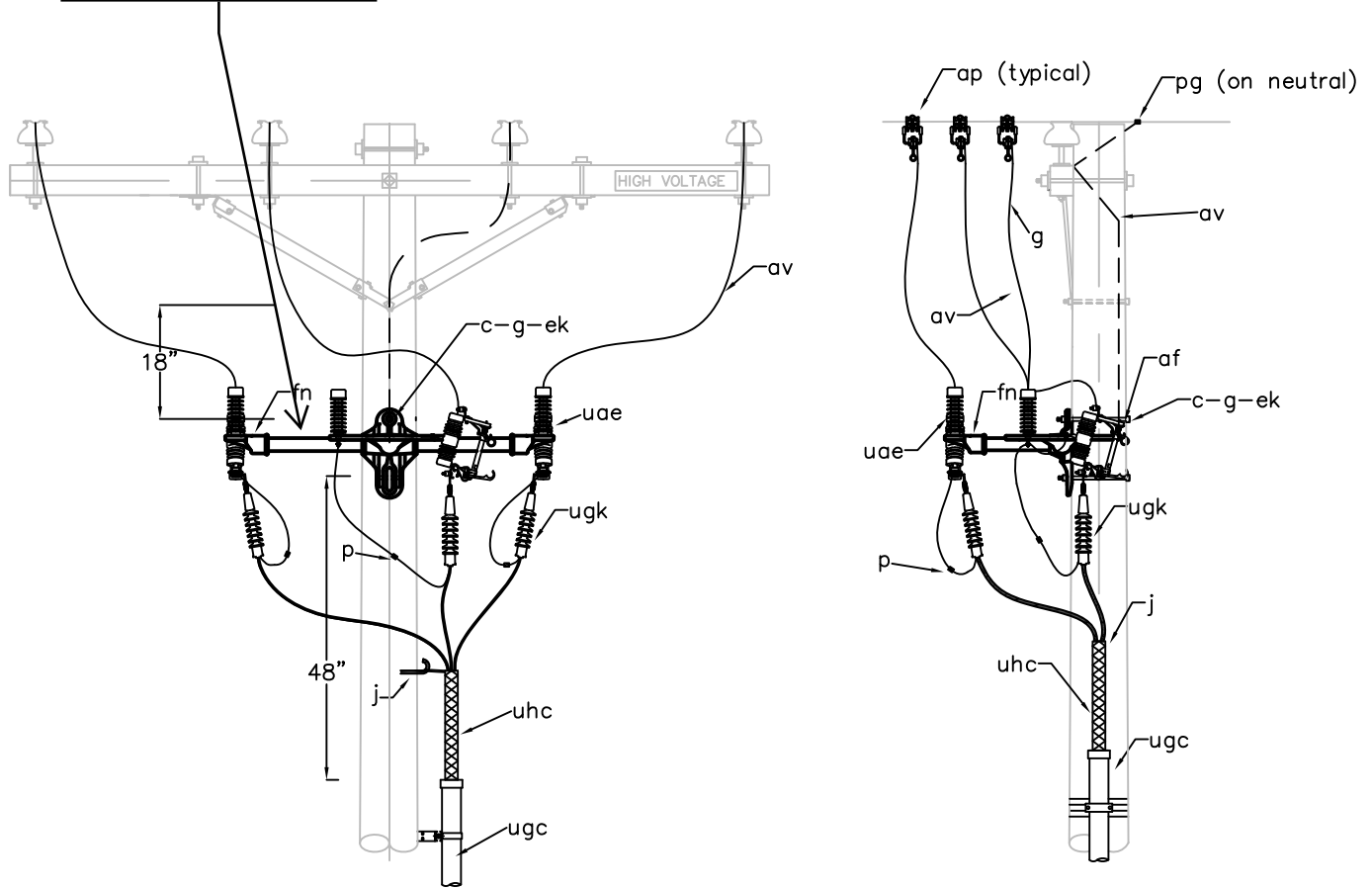
**ELECTRIC DEPARTMENT**

**Two Phase Primary Riser**

Bracket Construction

Drawn	Design	Approved	Date	Category	Voltage	UR2P
SMS	JAH	JW	7/6/07	2 PH Risers	7.2/14.4kV	

Bracket to be replaced with 10' 3Phase equipment arm.



ITEM	QTY	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length
d	2	Washer, square, 2 1/4"
j	1	Screw, J-Lag, 1/2" x 4" as req'd
p	3	Connector, compression, as req'd
af	3	Fuse Link
af	3	Cutout, Loadbreak, 200A
ap	3	Hot line clamp
av		Jumpers, as required
ek	2	Locknuts
fn	1	Bracket, Fiberglass, Cutout/Arrestor
pg	1	Parallel groove clamp (size as required)
uae	3	Surge arrester
ugc	1	Conduit, PVC, length as required
ugk	3	Cable termination
uhc	3	Cable support

**NOTES:**

- TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3 FEET.

**Not Shown:**  
 Riser to be installed with 10' equipment arm. Fuse cutouts installed on equipment arm.  
 See Single Phase Primary Riser for cover requirements.

UR3P.DWG



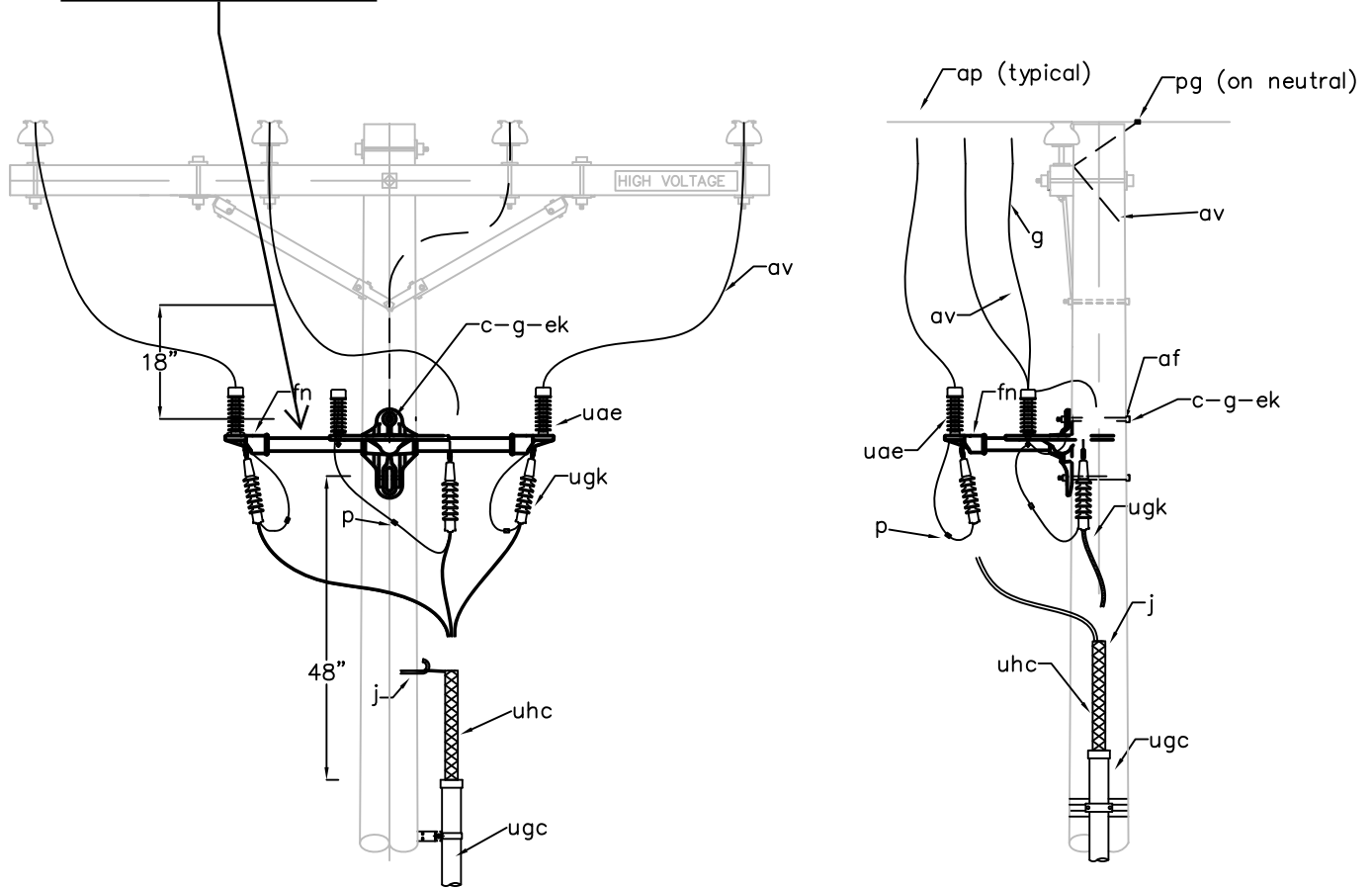
**ELECTRIC DEPARTMENT**

**Three Phase Primary Riser, 200A**

Bracket Construction

Drawn	Design	Approved	Date	Category	Voltage	UR3P
SMS	JAH	JW	6/28/07	3 PH Risers	7.2/12.5kV	

Bracket to be replaced with 10' 3Phase equipment arm.



ITEM	QTY	MATERIAL
c	2	Bolt, machine, 5/8" x req'd length
d	2	Washer, square, 2 1/4"
j	1	Screw, J-Lag, 1/2" x 4" as req'd
p	3	Connector, compression, as req'd
af	3	Fuse Link
af	3	Switch, Disconnect, 600A
ap	3	Lugs, as req'd
av		Jumpers, as required
ek	2	Locknuts
fn	1	Bracket, Fiberglass, Cutout/Arrestor
pg	7	Parallel groove clamp (size as required)
uae	3	Surge arrester
ugc	1	Conduit, PVC, length as required
ugk	3	Cable termination
uhc	3	Cable support

**NOTES:**

- TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3 FEET.

**Not Shown:**  
 Riser to be installed with 10' equipment arm. Fuse cutouts installed on equipment arm.  
 See Single Phase Primary Riser for cover requirements.

UR3P6A.DWG



**ELECTRIC DEPARTMENT**

**Three Phase Primary Riser, 600A**

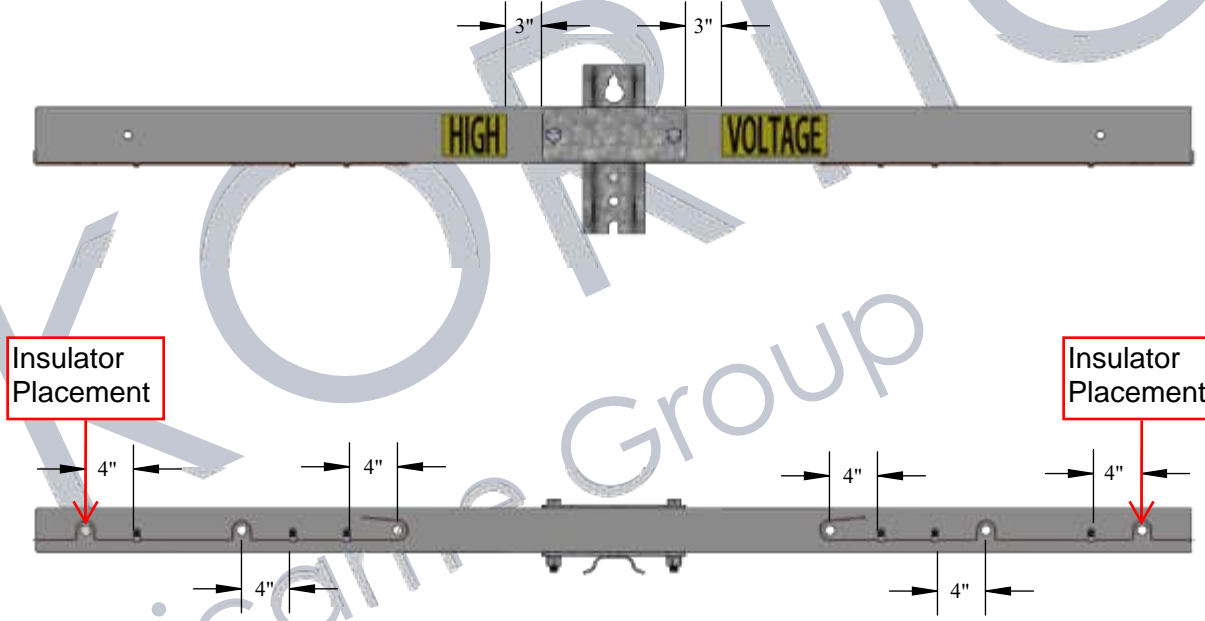
Bracket Construction

Drawn	Design	Approved	Date	Category	Voltage	UR3P6A
SMS	JAH	JW	6/28/07	3 PH Risers	7.2/12.5kV	

**NOTES**

1. MATERIAL: FIBERGLASS COMPOSITE
2. GEOTEK BEAM PART NO: FB-096-22-2
3. GEOTEK DWG NO: TX22000961202
4. MATERIAL CODE: M150591
5. BOND WIRE CLIPS: 15" MAX BETWEEN ANCHOR POINTS, 4" MINIMUM HOLE SPACING
6. **AVERAGE ULTIMATE VERTICAL LOAD:**  
 4,500 LBS/WIRE (2 WIRE @ +/- 44")  
 1,500 LBS/WIRE (6 WIRE @ +/- 18", +/- 31", +/- 44")
7. **AVERAGE ULTIMATE LONGITUDINAL LOAD:**  
 3,000 LBS/WIRE (2 WIRE @ +/- 44")  
 1,000 LBS/WIRE (6 WIRE @ +/- 18", +/- 31", +/- 44")
8. **AVERAGE ULTIMATE TRANSVERSE LOAD:**  
 6,000 LBS/SIDE

ITEM	STOCK CODE	DESCRIPTION	QTY.
1	AKM150591	CROSSARM, COMPOSITE BEAM, W CONDUIT S2200	1
2	AKTM-0045	BRACKET, CROSSARM MOUNT, TANGENT	1
3	AKPL-0037	BRACKET, CROSSARM PLATE, TANGENT	1
4	K1305-1/2HGR5	BOLT, HEX 3/4" X 5-1/2" GRADE 5	2
5	K1257	WASHER, LOCK 3/4"	2
6	K1270GR5	NUT, HEX 3/4" GRADE 5	2
7	KXU32514-HV	SIGN, HIGH VOLTAGE, ADHESIVE	2
8	KM160004	GROUND WIRE CLIP SET, 316 SS	6
9	KW10000-8	WIRE, SOLID SD COPPER #8	-



TOLERANCES - Unless Otherwise Specified  
 General Dimensional Variation: ±1/32"  
 Raw Material or Stock Size: +/- 1/64"  
 Lengths / Slot Length: ±1/16"  
 Hole or Slot Spacing: ±1/32"  
 Hole Diameter / Radii / Slot Width: +1/32"  
 Angular: ±2°

**KORTICK**  
 Sicame Group  
 2261 Carion Court, Pittsburg, CA 94565  
 www.Kortick.com

**REVISION HISTORY**  
 1. ADD BOND WIRE CLIP SPACING 2020.04.13  
 2. ADD BOM, CHANGE TO ADHESIVE HV SIGN 2024.03.08

Single Phase Tangent Crossarm

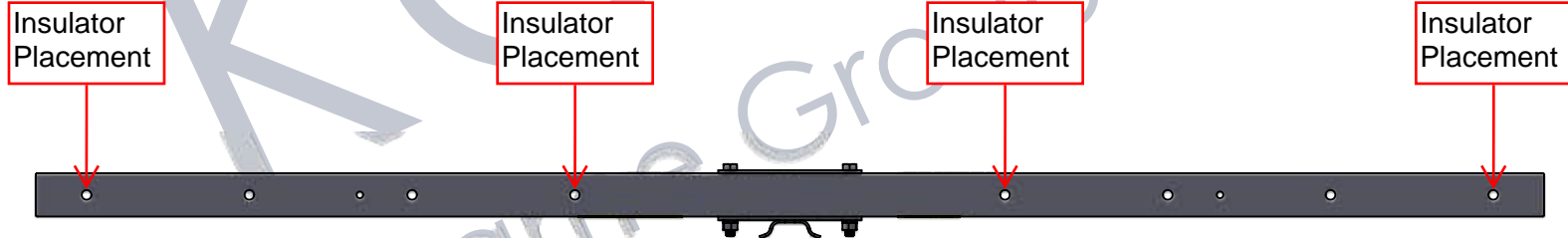
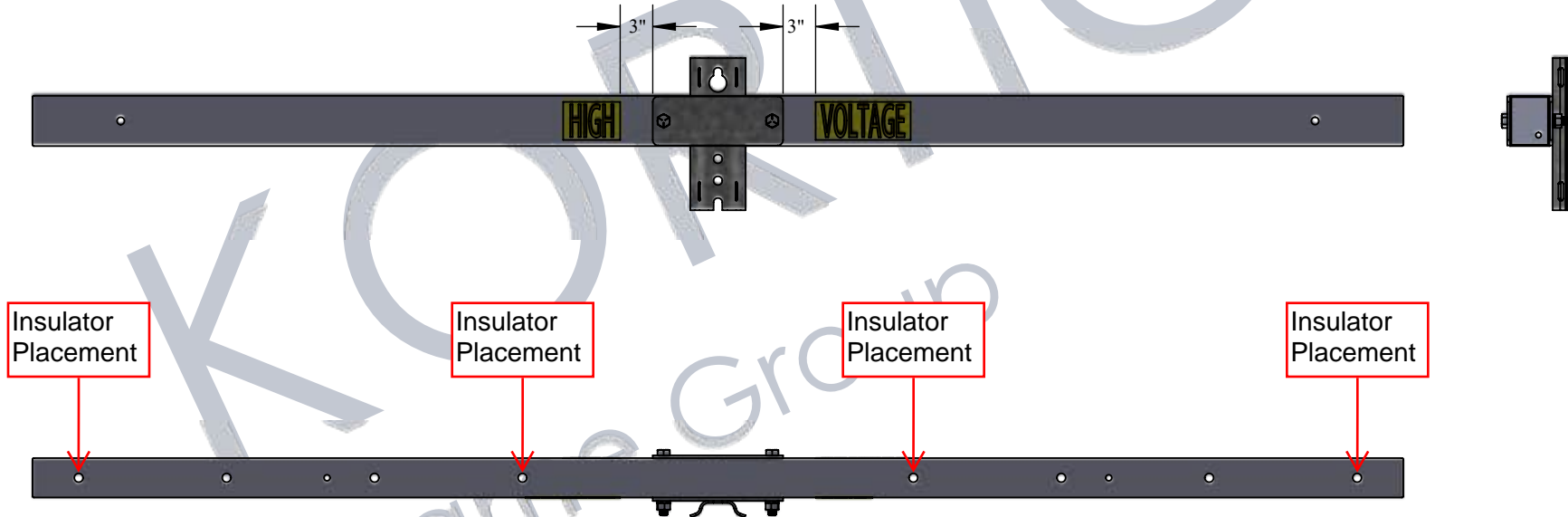
**PROPRIETARY AND CONFIDENTIAL**  
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STOCK CODE	KM150591		
DESCRIPTION	CROSSARM, DEADEND COMPOSITE 8' LIGHT		
DRAFTED BY	JEFFRIE BROWN		
DATE DRAFTED	2024.03.08		
APPROVED BY	JEFFRIE BROWN		
DATE APPROVED	2024.03.08		
SCALE	1:16	UNITS:	REV
SHEET	1 OF 2	IPS	NO. 02

**NOTES**

- MATERIAL: FIBERGLASS COMPOSITE
- GEOTEK BEAM PART NO: FB-126-2000-2
- GEOTEK DWG NO: TX20001261192
- MATERIAL CODE: M150593
- AVERAGE ULTIMATE VERTICAL LOAD:**  
4,750 LBS/WIRE (2 WIRE @ +/- 58.875")  
1,750 LBS/WIRE (8 WIRE @ +/- 18", +/- 31.625", +/- 45.25", +/- 58.875")
- AVERAGE ULTIMATE LONGITUDINAL LOAD:**  
3,750 LBS/WIRE (2 WIRE @ +/- 58.875")  
1,250 LBS/WIRE (8 WIRE @ +/- 18", +/- 31.625", +/- 45.25", +/- 58.875")
- AVERAGE ULTIMATE TRANSVERSE LOAD:**  
7,000 LBS/SIDE

ITEM	STOCK CODE	DESCRIPTION	QTY.
1	AKM150593	CROSSARM, COMPOSITE BEAM, W CONDUIT S2000	1
2	AKTM-0045	BRACKET, CROSSARM MOUNT, TANGENT	1
3	AKPL-0037	BRACKET, CROSSARM PLATE, TANGENT	1
4	K1305-1/2HGR5	BOLT, HEX 3/4" X 5-1/2" GRADE 5	2
5	K1257	WASHER, LOCK 3/4"	2
6	K1270GR5	NUT, HEX 3/4" GRADE 5	2
7	KXU32514-HV	SIGN, HIGH VOLTAGE, ADHESIVE	2



TOLERANCES - Unless Otherwise Specified  
 General Dimensional Variation:  $\pm 1/32$ "  
 Raw Material or Stock Size: +/- 1/64"  
 Lengths / Slot Length:  $\pm 1/16$ "  
 Hole or Slot Spacing:  $\pm 1/32$ "  
 Hole Diameter / Radii / Slot Width:  $+1/32$ "  
 Angular:  $\pm 2^\circ$

**PROPRIETARY AND CONFIDENTIAL**  
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**REVISION HISTORY**  
 1. ADD BOM, CHANGE TO ADHESIVE HV SIGN 2024.03.08

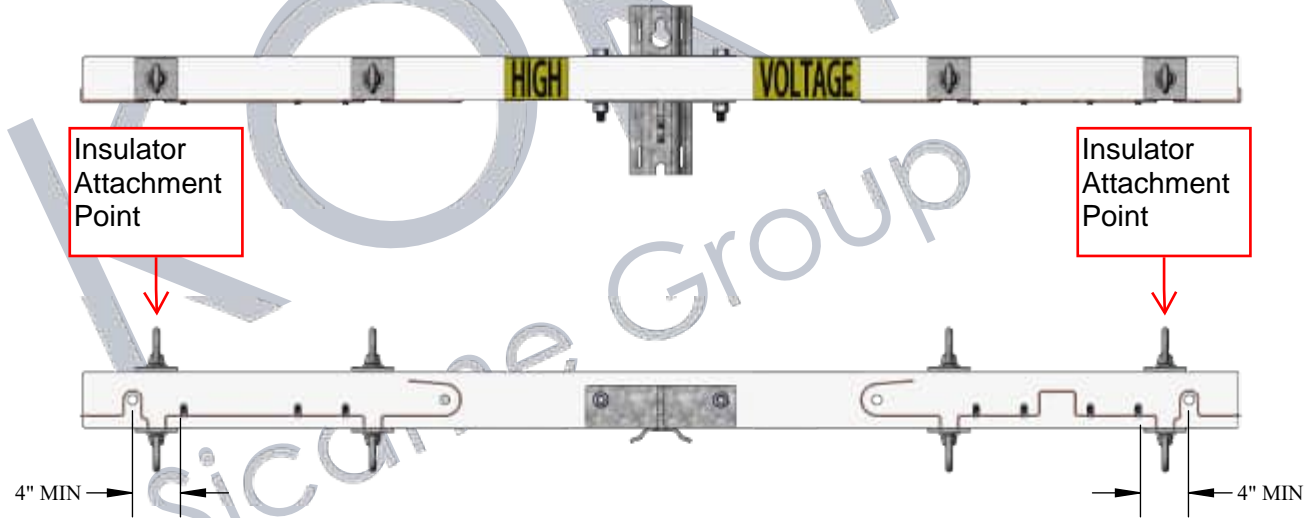
Three Phase Tangent Crossarm

STOCK CODE	KM150593		
DESCRIPTION	CROSSARM, TANGENT COMPOSITE 10'-6" LIGHT STRONG		
DRAFTED BY	JEFFRIE BROWN		
DATE DRAFTED	2024.03.08		
APPROVED BY	JEFFRIE BROWN		
DATE APPROVED	2024.03.08		
SCALE	1:16	UNITS:	REV
SHEET	1 OF 2	IPS	NO. 02

**NOTES**

1. MATERIAL: FIBERGLASS COMPOSITE
2. GEOTEK BEAM PART NO: FB-096-2500-2
3. GEOTEK DWG NO: D2500096X40022
4. MATERIAL CODE: M180071
5. BOND WIRE CLIPS: 15" MAX BETWEEN ANCHOR POINTS, 4" MINIMUM HOLE SPACING
6. **AVERAGE ULTIMATE VERTICAL LOAD:**  
2,500 LBS/WIRE (4 WIRE @ +/- 24", +/- 42")  
4,750 LBS/WIRE (2 WIRE @ +/- 42")
7. **AVERAGE ULTIMATE LONGITUDINAL LOAD:**  
6,000 LBS/WIRE (4 WIRE @ +/- 24", +/- 42")  
11,000 LBS/WIRE (2 WIRE @ +/- 42")
8. **AVERAGE ULTIMATE TRANSVERSE LOAD:**  
9,250 LBS/SIDE

ITEM	STOCK CODE	DESCRIPTION	QTY.
1	AKM180071ARM	CROSSARM, COMPOSITE BEAM, W CONDUIT S2500	1
2	AKM180068BRKTCOMP	BRACKET, COMPOSITE CROSSARM, DEADEND	1
3	K1305-1/2HGR5	BOLT, HEX 3/4" X 5-1/2" GRADE 5	2
4	K1257	WASHER, LOCK 3/4"	2
5	K1270GR5	NUT, HEX 3/4" GRADE 5	2
6	K2406-8-1/4	ROD, ALL THREAD 5/8" X 8-1/4"	4
7	K1566	WASHER, SQUARE 3-1/2" X 3/8", FOR 5/8"	8
8	K1525	WASHER, ROUND 5/8"	8
9	K1256	WASHER, LOCK 5/8"	8
10	K4212	NUT, OVALEYE 5/8"	8
11	KXU32514-HV	SIGN, HIGH VOLTAGE, ADHESIVE	2
12	KM160004	GROUND WIRE CLIP SET, 316 SS	7
13	KW10000-8	WIRE, SOLID SD COPPER #8	-



**Single Phase Deadend Crossarm**

TOLERANCES - Unless Otherwise Specified  
 General Dimensional Variation:  $\pm 1/32"$   
 Raw Material or Stock Size:  $\pm 1/64"$   
 Lengths / Slot Length:  $\pm 1/16"$   
 Hole or Slot Spacing:  $\pm 1/32"$   
 Hole Diameter / Radii / Slot Width:  $+1/32"$   
 Angular:  $\pm 2^\circ$

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**REVISION HISTORY**

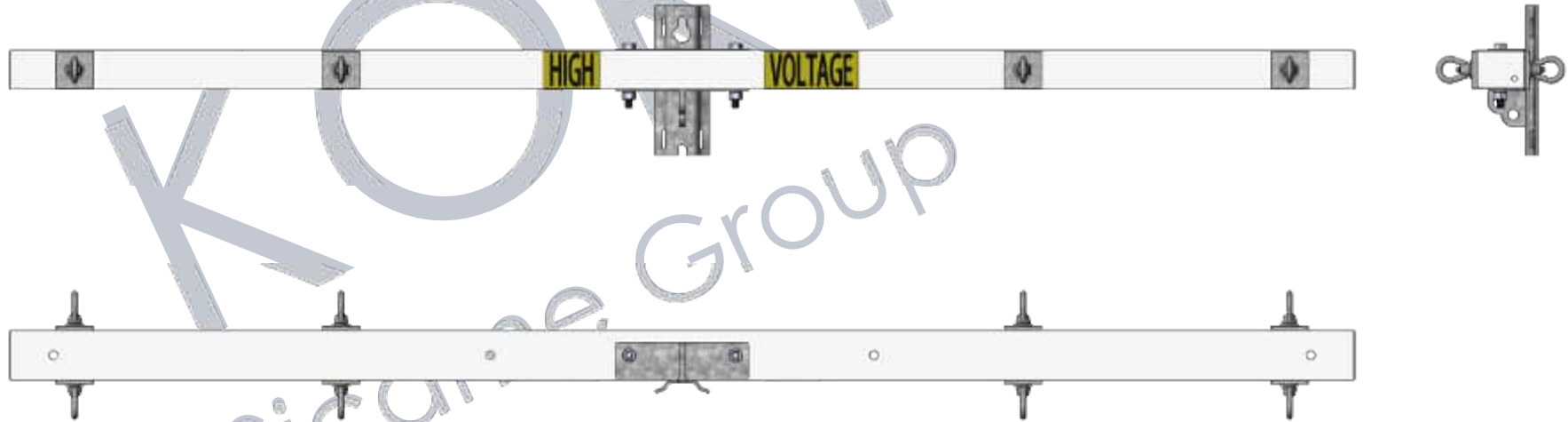
1. CORRECT EYE NUT ORIENTATION 2019.06.20
2. CORRECT BRACKET ORIENTATION 2019.07.09
3. ADD BOND WIRE CLIP SPACING 2020.04.14
4. ADD BOM, UPDATE NOTES, UPDATE FORMAT 2024.02.29

STOCK CODE	KM180071		
DESCRIPTION	CROSSARM, DEADEND COMPOSITE 8' HEAVY		
DRAFTED BY	JEFFRIE BROWN		
DATE DRAFTED	2024.02.29		
APPROVED BY	JEFFRIE BROWN		
DATE APPROVED	2024.02.29		
SCALE	1:16	UNITS:	REV
SHEET	1 OF 2	IPS	NO. 04

**NOTES**

1. MATERIAL: FIBERGLASS COMPOSITE
2. GEOTEK BEAM PART NO: FB-126-3000-2
3. GEOTEK DWG NO: D3000126X40032
4. MATERIAL CODE: M180073
5. BOND WIRE CLIPS: 15" MAX BETWEEN ANCHOR POINTS, 4" MINIMUM HOLE SPACING
6. **AVERAGE ULTIMATE VERTICAL LOAD:**  
3,250 LBS/WIRE (4 WIRE @ +/- 32", +/- 57")  
5,250 LBS/WIRE (2 WIRE @ +/- 57")
7. **AVERAGE ULTIMATE LONGITUDINAL LOAD:**  
8,000 LBS/WIRE (4 WIRE @ +/- 32", +/- 57")  
13,750 LBS/WIRE (2 WIRE @ +/- 57")
8. **AVERAGE ULTIMATE TRANSVERSE LOAD:**  
11,000 LBS/SIDE

ITEM	STOCK CODE	DESCRIPTION	QTY.
1	AKM180074ARM	CROSSARM, COMPOSITE BEAM, W CONDUIT S3000	1
2	AKM180068BRKTCOMP	BRACKET, COMPOSITE CROSSARM, DEADEND	1
3	K1305-1/2HGR5	BOLT, HEX 3/4" X 5-1/2" GRADE 5	2
4	K1257	WASHER, LOCK 3/4"	2
5	K1270GR5	NUT, HEX 3/4" GRADE 5	2
6	K2406-8-1/4	ROD, ALL THREAD 5/8" X 8-1/4"	4
7	K1566	WASHER, SQUARE 3-1/2" X 3/8", FOR 5/8"	8
8	K1525	WASHER, ROUND 5/8"	8
9	K1256	WASHER, LOCK 5/8"	8
10	K4212	NUT, OVALEYE 5/8"	8
11	KXU32514-HV	SIGN, HIGH VOLTAGE, ADHESIVE	2



Tree Phase Deadend Crossarm

TOLERANCES - Unless Otherwise Specified  
 General Dimensional Variation:  $\pm 1/32"$   
 Raw Material or Stock Size:  $\pm 1/64"$   
 Lengths / Slot Length:  $\pm 1/16"$   
 Hole or Slot Spacing:  $\pm 1/32"$   
 Hole Diameter / Radii / Slot Width:  $+1/32"$   
 Angular:  $\pm 2^\circ$

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KORTICK MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KORTICK IS PROHIBITED



2261 Carion Court, Pittsburg, CA 94565  
 www.Kortick.com

**REVISION HISTORY**

STOCK CODE	KM180073		
DESCRIPTION	CROSSARM, DEADEND COMPOSITE 10'-6" HEAVY		
DRAFTED BY	JEFFRIE BROWN		
DATE DRAFTED	2023.07.05		
APPROVED BY	JEFFRIE BROWN		
DATE APPROVED	2023.07.05		
SCALE	1:16	UNITS:	REV
SHEET	1 OF 2	IPS	NO. 00



a SICAME Group<sup>®</sup> company

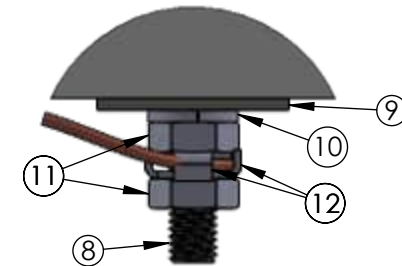
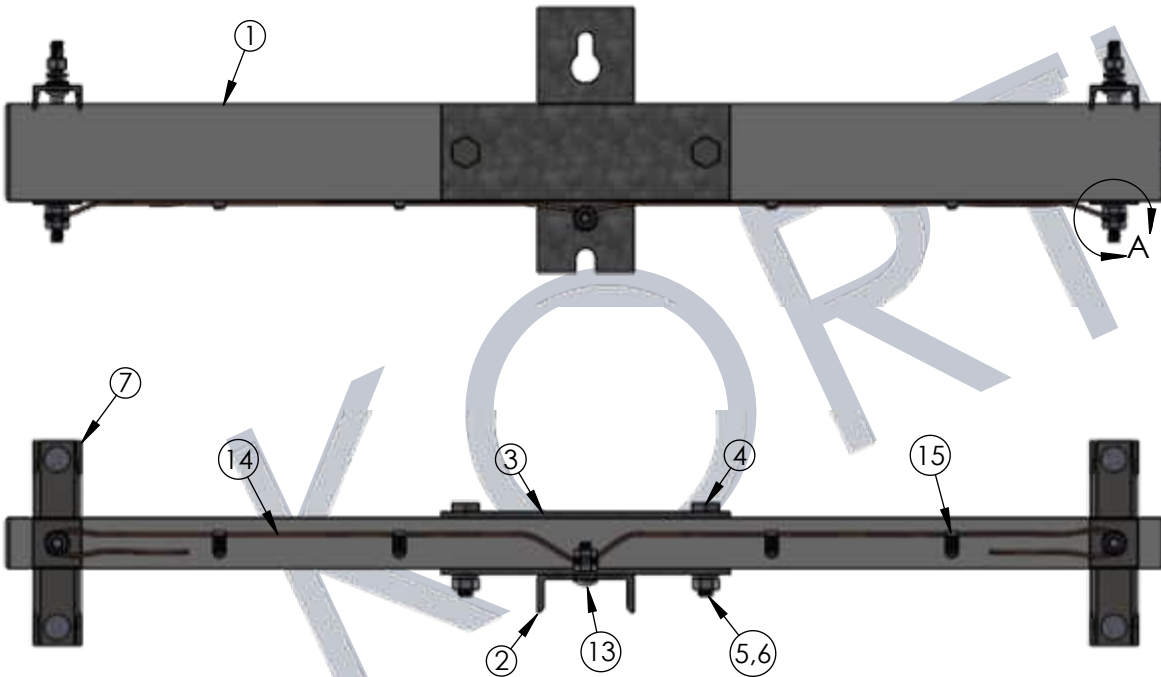
# KORTICK MANUFACTURING COMPANY

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Pittsburg, Ca 94565

www.kortick.com  
(510) 856 - 3600

## NOTES

1. MATERIAL: FIBERGLASS COMPOSITE
3. GEOTEK DRAWING NO: TX10020483232
4. MATERIAL CODE: M180143



**DETAIL A**  
**SCALE 1 : 2**

BILL OF MATERIALS			
Item	Stock Code	Description	Quantity
1	AKM180143FGARM	Crossarm, Fiberglass 48"	1 EA
2	AK8425CHANNELBRACKET	Center Bracket Weldment	1 EA
3	AK8425BACKBLATE	Backplate for Channel & Arm	1 EA
4	K1203-1/2HG	Bolt, Hex 5/8" X 3-1/2"	2 EA
5	K1256	Washer, Lock 5/8"	2 EA
6	K1269	Nut, Hex 5/8"	2 EA
7	AK8425BRKTCH	Apparatus Bracket	2 EA
8	K1106-1/2CG	Bolt, CGE 1/2" X 6-1/2"	2 EA
9	K1550	Washer, Square 2" for 1/2"	2 EA
10	K1255	Washer, Lock 1/2"	3 EA
11	K1268	Nut, Hex 1/2"	6 EA
12	AK8425CLIP S/S	Clip, Bonding	6 EA
13	K1102CG	Bolt, CGE 1/2" X 2"	1 EA
14	KW10000-8	Wire, CU #8 SOL S/D	58"
15	KM160004	Ground Wire Clip Set 316 SS	4 EA

### TOLERANCES - Unless Otherwise Specified

**General Dimensional Variation:** ±1/32"  
Raw Material or Stock Size: +/- 1/64"  
Lengths / Slot Length: ±1/16"  
Hole or Slot Spacing: ±1/32"  
Hole Diameter / Radii / Slot Width: +1/32"  
Angular: ±2°

### PROPRIETARY AND CONFIDENTIAL

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### REVISION HISTORY

1. ADD BOND WIRE AND CLIPS 2020.02.04
2. UPDATE CUTOUT APPARATUS BRACKET 2022.05.31

**Single Phase Equipment Crossarm**

STOCK CODE	KM180143
DESCRIPTION	CROSSARM, CUTOUT, 4 FT, 2 PHASE
DRAFTED BY	JONATHAN HERNANDEZ
DATE DRAFTED	2017.12.01
APPROVED BY	JEFFRIE BROWN
DATE APPROVED	2022.05.31

**SCALE** 1:8  
**SHEET** 1 OF 2

**UNITS:**  
IPS

**REV NO.** **02**



a SICAME Group<sup>®</sup> company

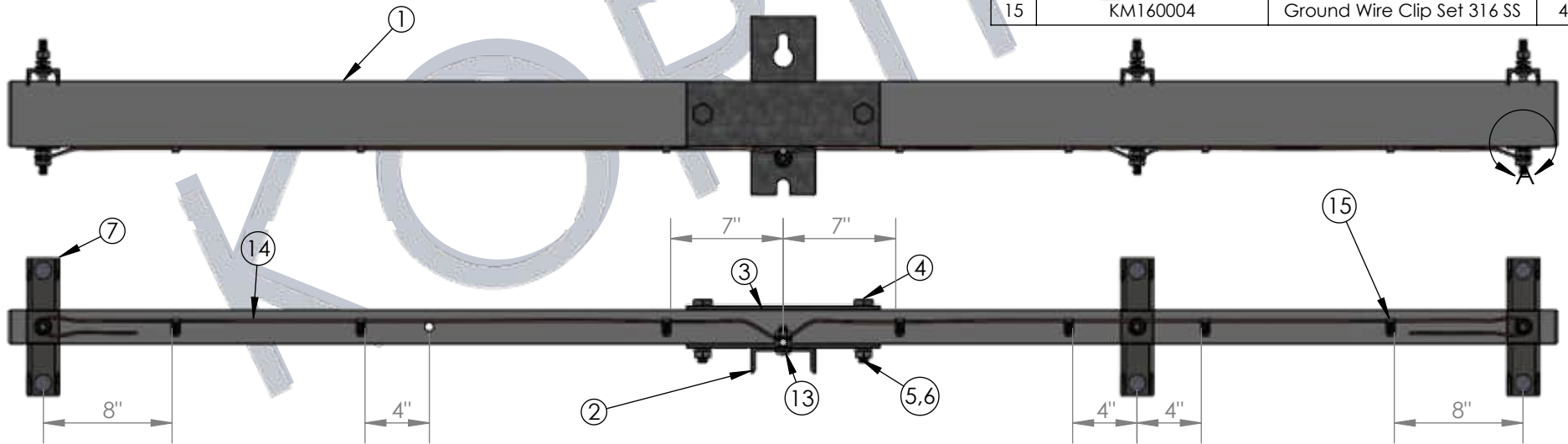
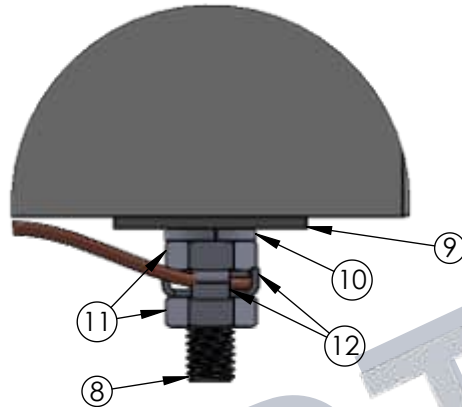
# KORTICK MANUFACTURING COMPANY

2261 Carion Ct  
Pittsburg, Ca 94565

www.kortick.com  
(510) 856 - 3600

**NOTES:**

1. MATERIAL: FIBERGLASS COMPOSITE
2. GEOTEK DRAWING NO: TX1000096PG12
3. GEOTEK BEAM NO: FB-096-1000-2
4. MATERIAL CODE: M180134



BILL OF MATERIALS			
Item	Stock Code	Description	Quantity
1	AK8425FGARM	Crossarm, Fiberglass 96"	1 EA
2	AK8425CHANNELBRACKET	Center Bracket Weldment	1 EA
3	AK8425BACKBLATE	Backplate for Channel & Arm	1 EA
4	K1203-1/2HG	Bolt, Hex 5/8" X 3-1/2"	2 EA
5	K1256	Washer, Lock 5/8"	2 EA
6	K1269	Nut, Hex 5/8"	2 EA
7	AK8425BRKTCH	Apparatus Bracket	3 EA
8	K1106-1/2CG	Bolt, CGE 1/2" X 6-1/2"	3 EA
9	K1550	Washer, Square 2" for 1/2"	3 EA
10	K1255	Washer, Lock 1/2"	4 EA
11	K1268	Nut, Hex 1/2"	8 EA
12	AK8425CLIP S/S	Clip, Bonding	8 EA
13	K1102CG	Bolt, CGE 1/2" X 2"	1 EA
14	KW10000-8	Wire, CU #8 SOL S/D	106"
15	KM160004	Ground Wire Clip Set 316 SS	4 EA

**TOLERANCES - Unless Otherwise Specified**  
 General Dimensional Variation:  $\pm 1/32"$   
 Raw Material or Stock Size:  $\pm 1/64"$   
 Lengths / Slot Length:  $\pm 1/16"$   
 Hole or Slot Spacing:  $\pm 1/32"$   
 Hole Diameter / Radii / Slot Width:  $\pm 1/32"$   
 Angular:  $\pm 2^\circ$

**REVISION HISTORY**

1. ADD BOND WIRE CLIP SPACING 2020.04.14
2. UPDATE CUTOUT APPARATUS BRACKET 2022.05.31

**Three Phase Equipment Crossarm**

STOCK CODE	K8425
DESCRIPTION	CROSSARM, CUTOUT, 8 FT, 3 PHASE
DRAFTED BY	JEFFRIE BROWN
DATE DRAFTED	2019.09.15
APPROVED BY	JEFFRIE BROWN
DATE APPROVED	2022.05.31

SCALE 1:10  
SHEET 1 OF 3

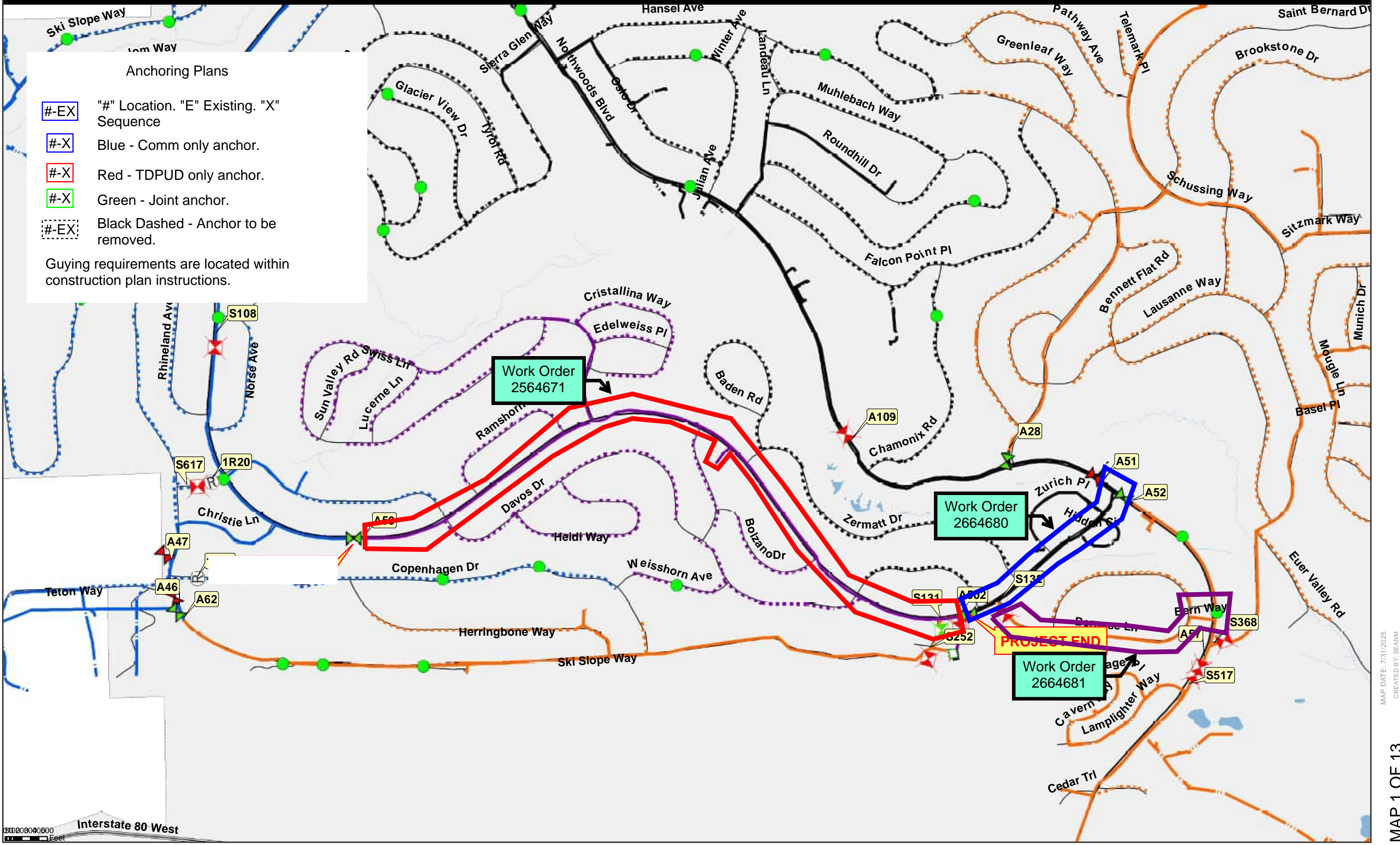
UNITS: IPS

REV NO. **02**

**PROPRIETARY AND CONFIDENTIAL**  
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- Anchoring Plans**
- #-EX "# Location. "E" Existing. "X" Sequence
  - #-X Blue - Comm only anchor.
  - #-X Red - TDPUD only anchor.
  - #-X Green - Joint anchor.
  - #-EX Black Dashed - Anchor to be removed.

Guying requirements are located within construction plan instructions.



## Construction Summary

			TD1
A2	Pole Hole Excavation	EA	59
A3	Remove Pole Top to Communications Level and Install Metal Pole Design A1	EA	0
A4	Remove Pole Top to Communications Level and Install Metal Pole Design A2	EA	0
A5	Remove Pole Top to Communications Level and Install Metal Pole Design A3	EA	5
A6	Remove Pole Top to Communications Level and Install Metal Pole Design C1	EA	33
A7	Remove Pole Top to Communications Level and Install Metal Pole Design C2	EA	1
A8	Remove Pole Top to Communications Level and Install Metal Pole Design C3	EA	12
A9	Remove Pole Top to Communications Level and Install Metal Pole Design C4	EA	0
A10	Remove Pole Top to Communications Level and Install Metal Pole Design C5	EA	5
A11	Remove Pole Top to Communications Level and Install Metal Pole Design C6	EA	2
A12	Remove Bare 4-wire Conductor and Install Covered Conductor 397.5 AAC 4-wire	FT	8360
A13	Remove Bare 4-wire or 2-wire Conductor and Install Covered Conductor 1/0 ACSR 4-wire or 2-wire	FT	1400
A14	Install Anchors (Screw Anchors preferred)	EA	27
A15	Transfer or Install Transformer from old Pole to New Pole + Installation of Equipment Arm	EA	18
A16	Transfer Secondary/Services from old Pole to New Pole	EA	159
A17	Install/Transfer Down/Span Guys per standard	EA	85
A18	Transfer TDPUD Fiber Line	EA	8
A19	Rebuild Secondary Riser	EA	4
A20	Transfer Secondary Riser	EA	6
A21	Rebuild Primary Riser 1Phase	EA	0
A22	Rebuild Primary Riser 3Phase	EA	0
A23	Transfer Primary Riser 1Phase	EA	0
A24	Transfer Primary Riser 3Phase	EA	0
A25	Tap Fuse Transfer/Equipment Arm Install 1Phase	EA	4
A26	Tap Fuse Transfer/Equipment Arm Install 3Phase	EA	2



**Wire and Tensioning Plans**

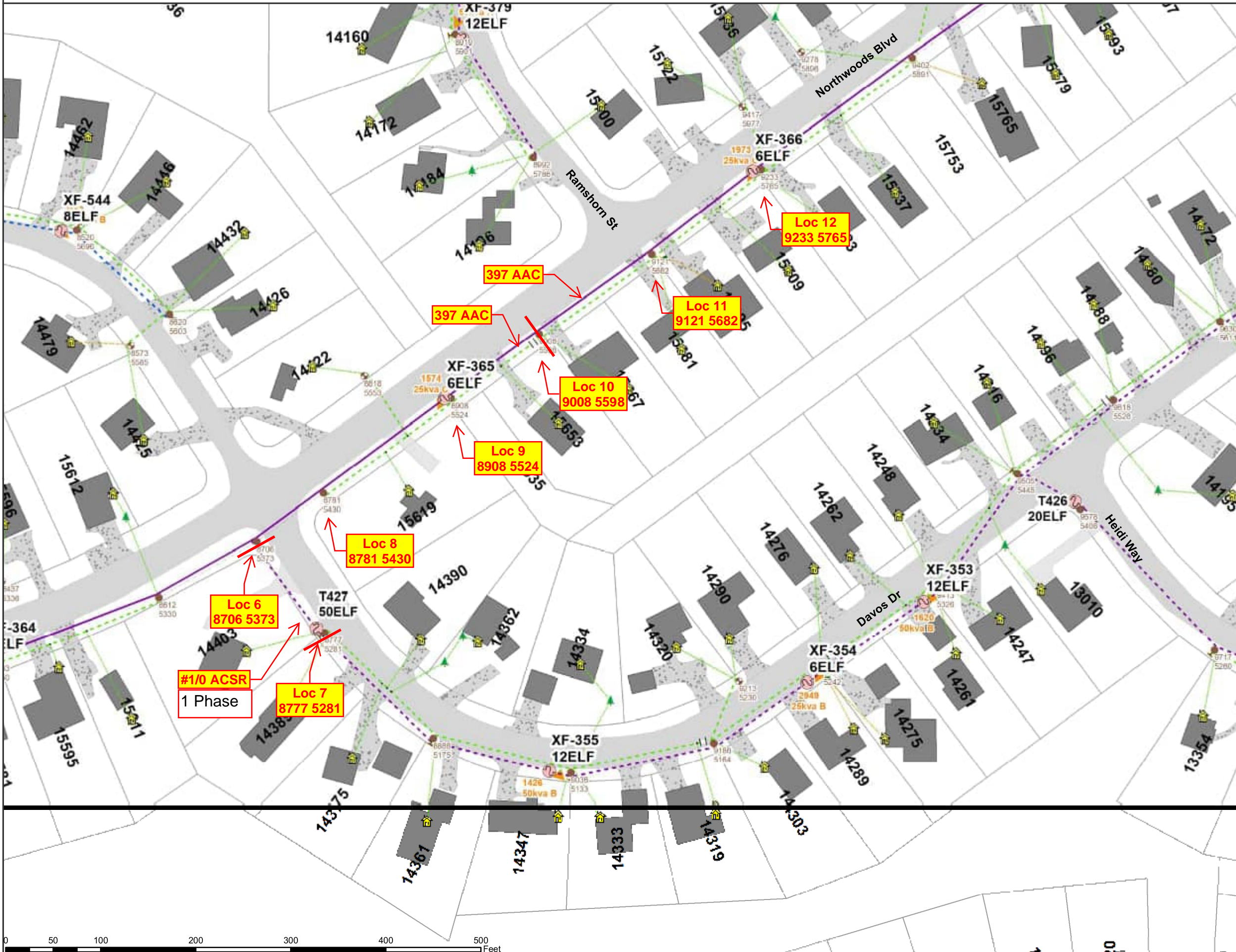
Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

Refer to provided sag charts for tensions.

"397 AAC" dictates that the line is sagged with normal chart.

"397 AAC Sag" dictates the line is sagged with the "sag" chart.

Plans will call out if the line is 1phase, and pole top construction still will align.



### Wire and Tensioning Plans

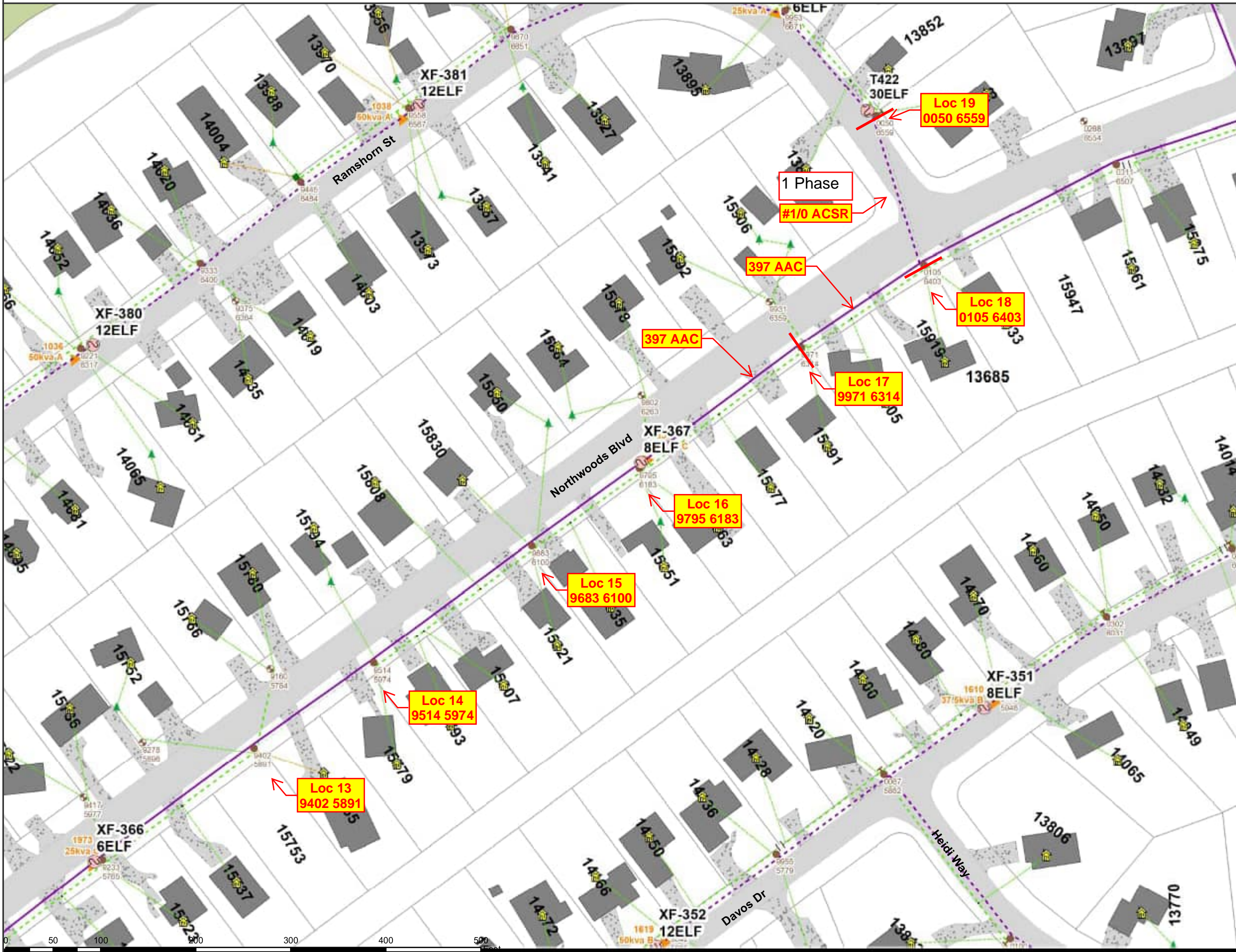
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### Wire and Tensioning Plans

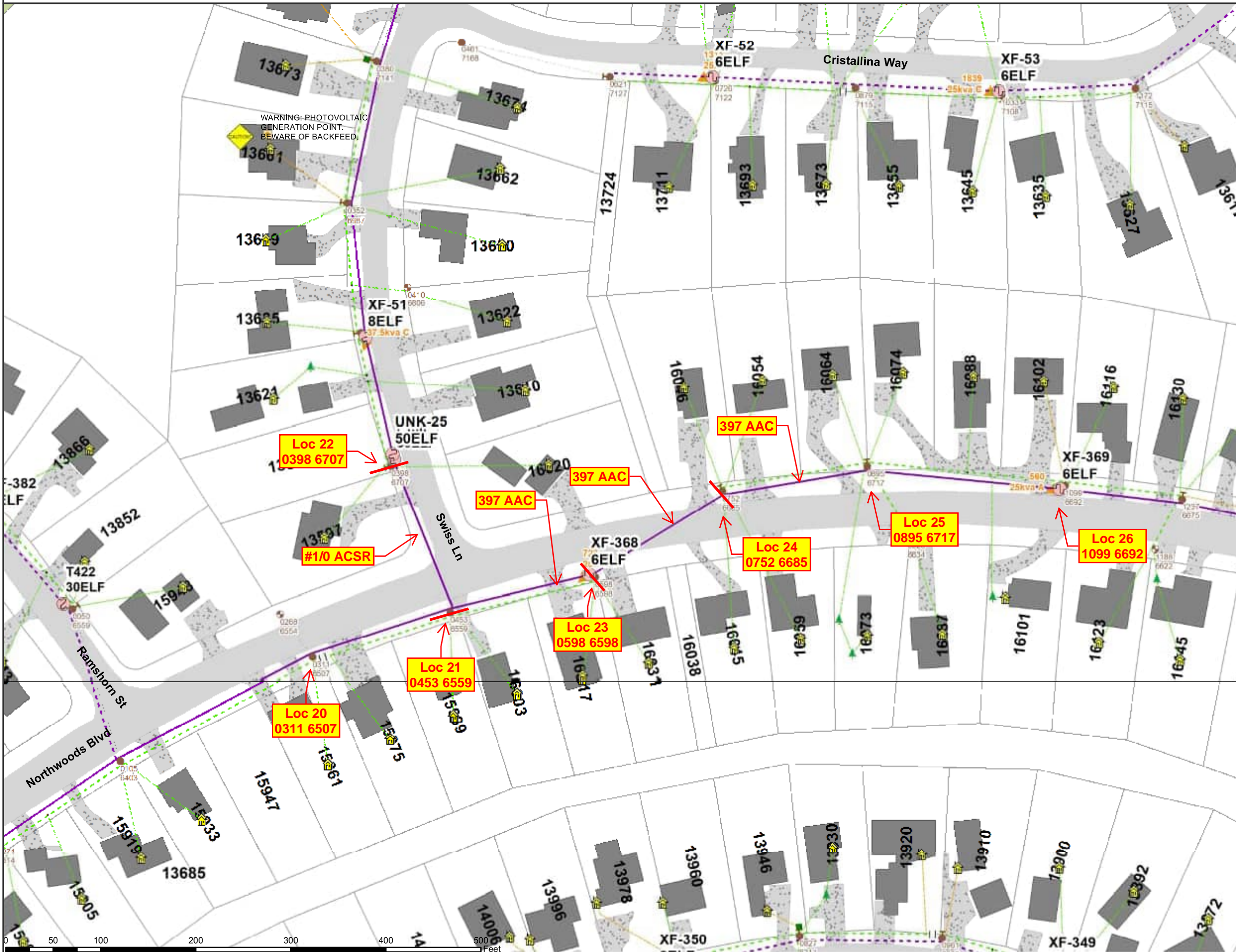
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### Wire and Tensioning Plans

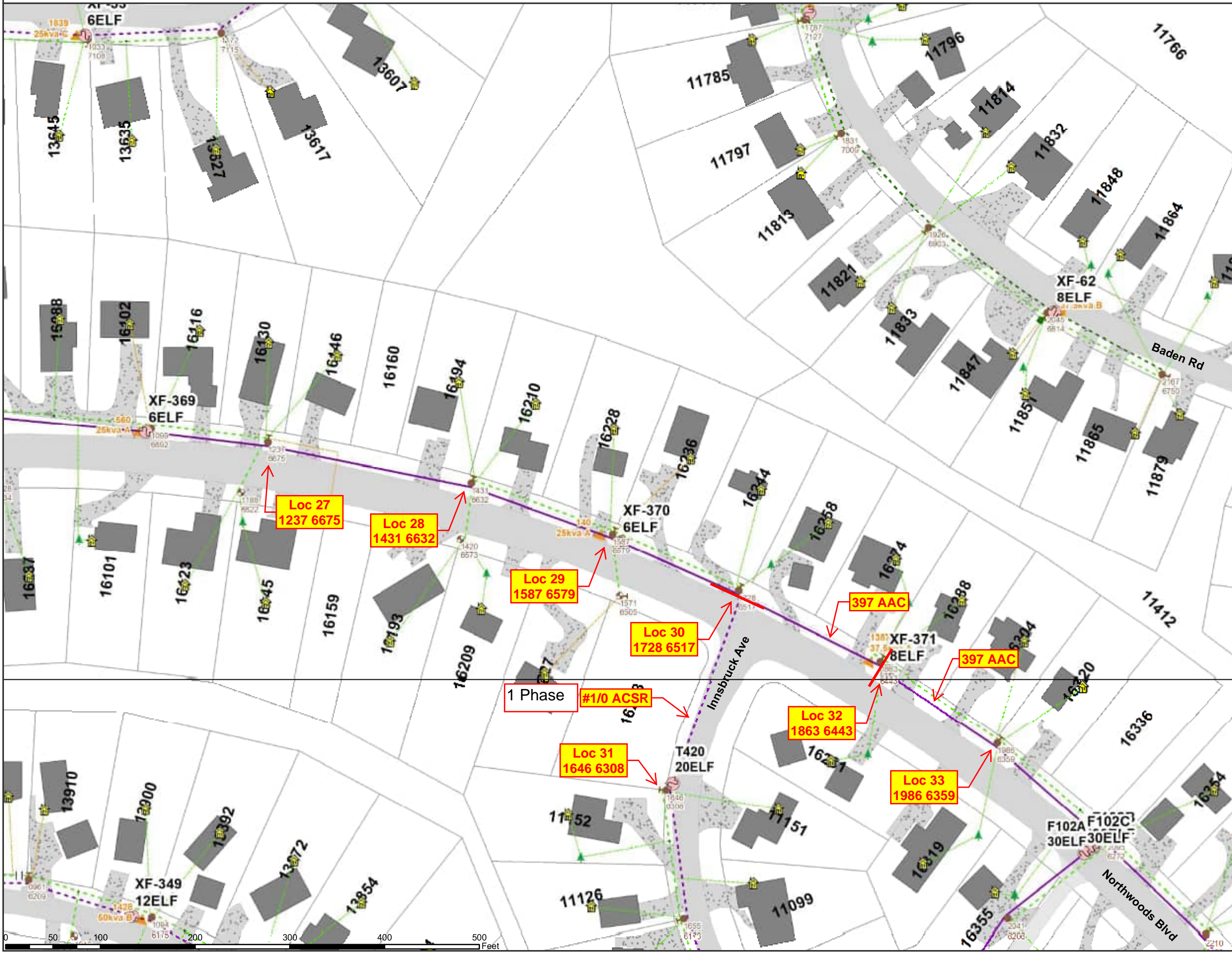
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Plans will call out if the line is 1phase, and pole top construction still will align.



### Wire and Tensioning Plans

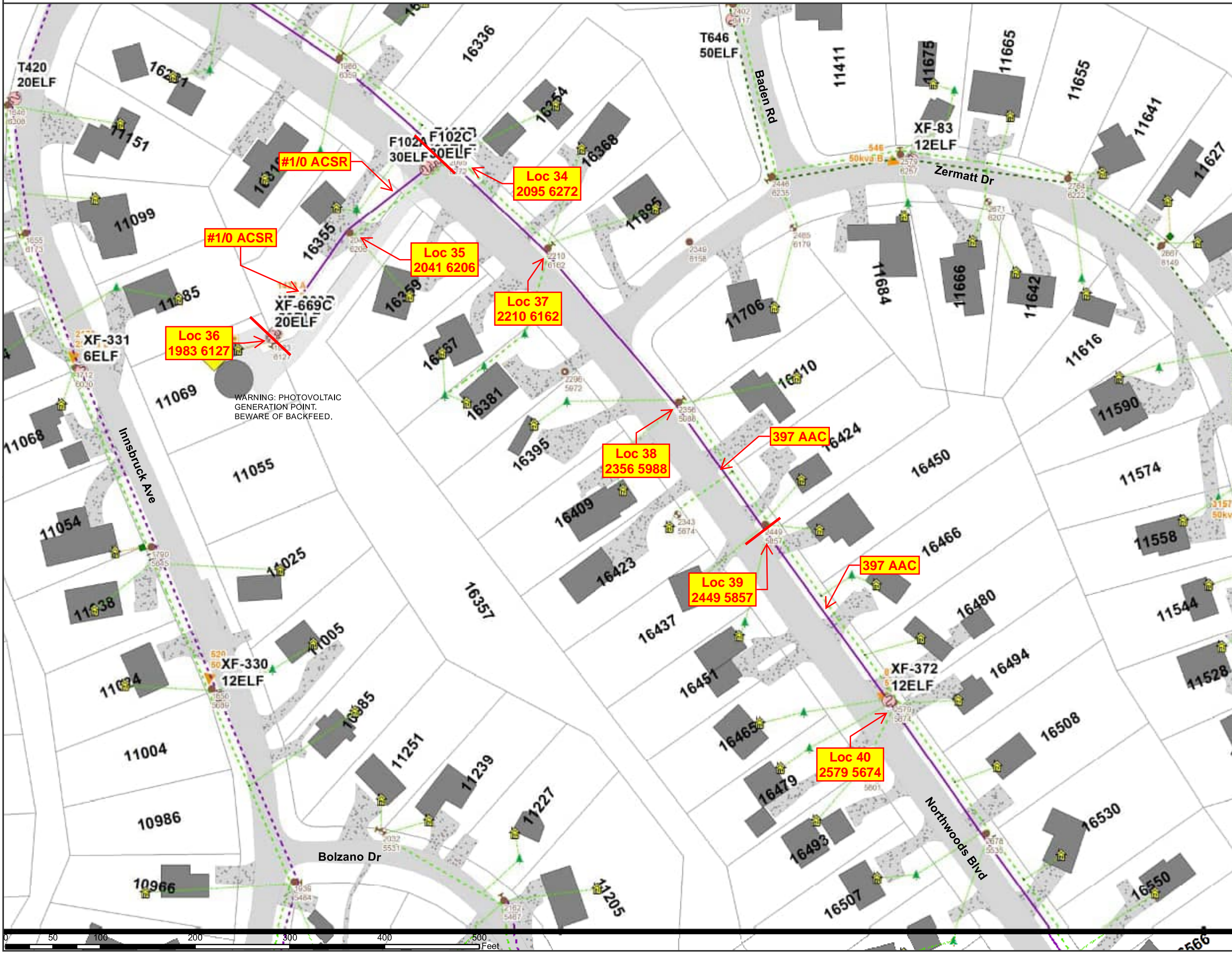
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### Wire and Tensioning Plans

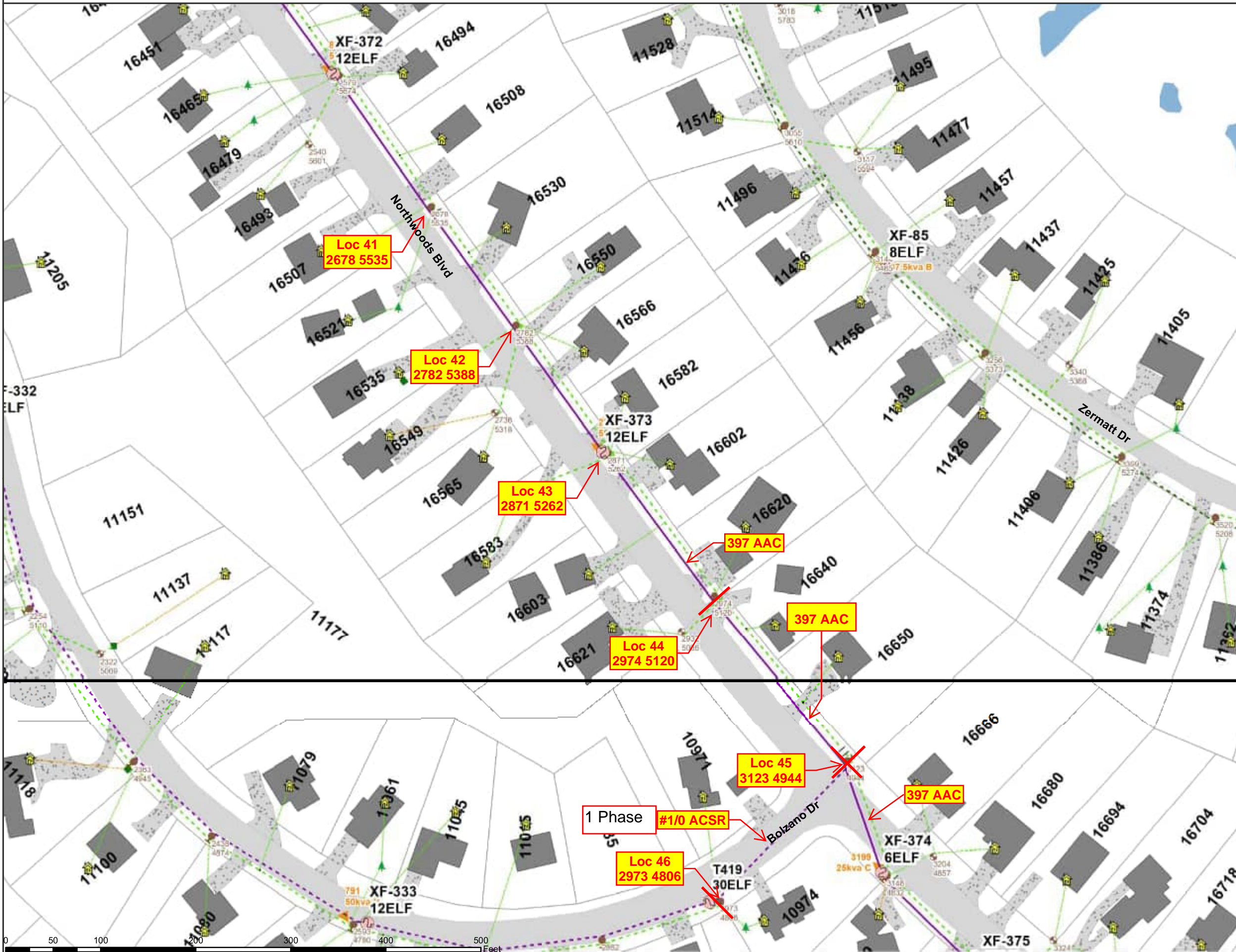
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### Wire and Tensioning Plans

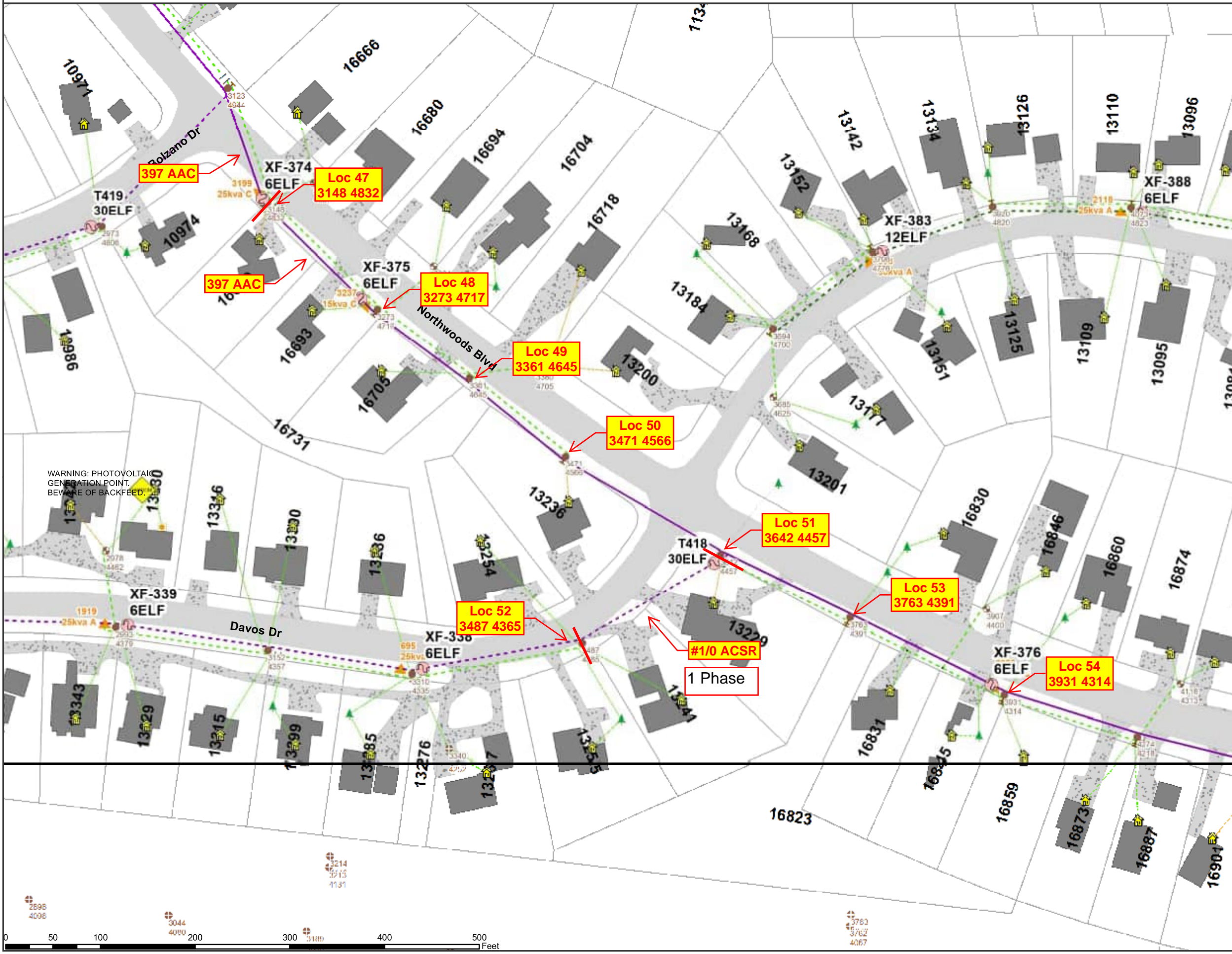
Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

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Plans will call out if the line is 1 phase, and pole top construction still will align.



### Wire and Tensioning Plans

Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

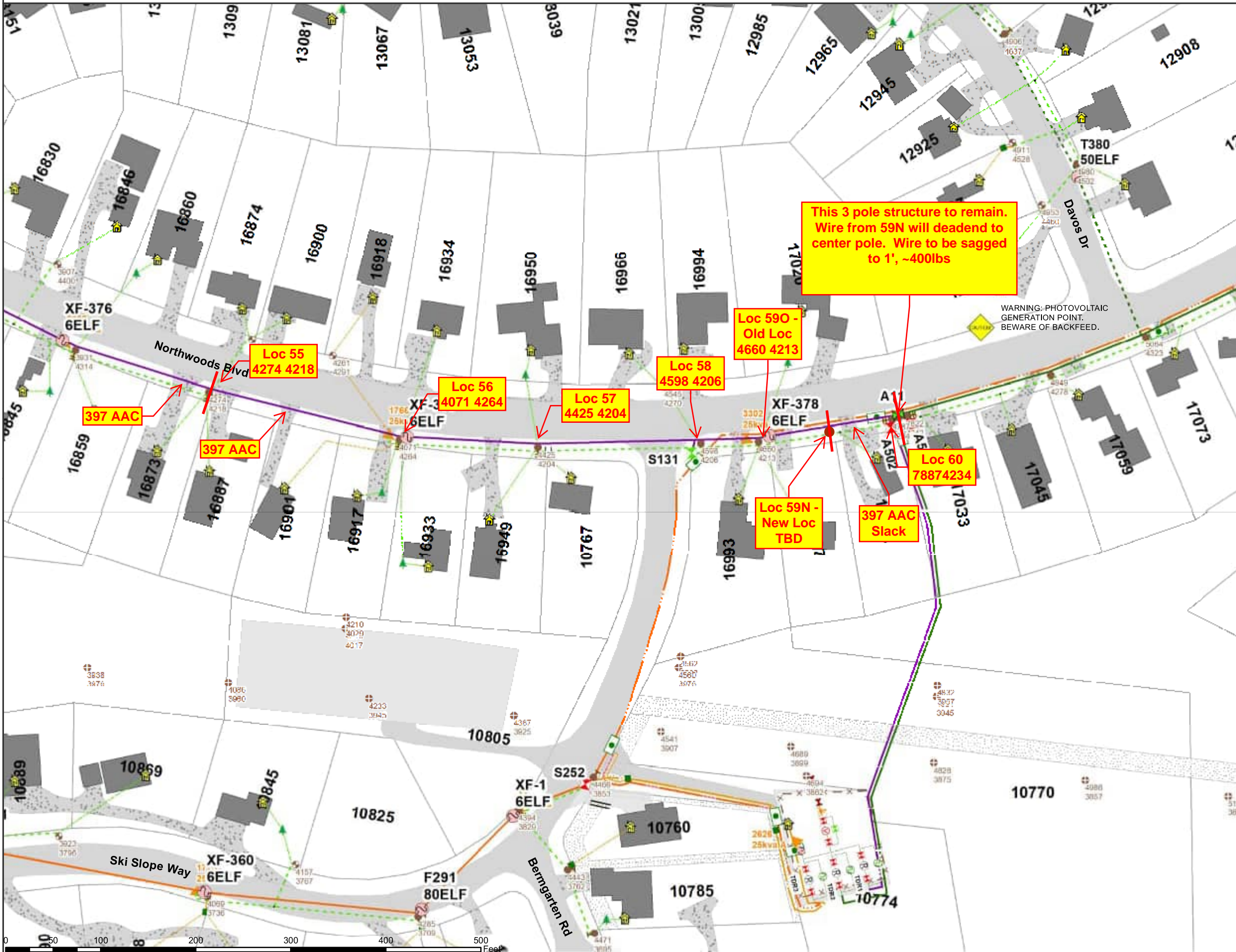
Refer to provided sag charts for tensions.

"397 AAC" dictates that the line is sagged with normal chart.

"397 AAC Sag" dictates the line is sagged with the "sag" chart.

Plans will call out if the line is 1phase, and pole top construction still will align.





### Wire and Tensioning Plans

Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

Refer to provided sag charts for tensions.

"397 AAC" dictates that the line is sagged with normal chart.

"397 AAC Sag" dictates the line is sagged with the "sag" chart.

Plans will call out if the line is 1phase, and pole top construction still will align.

"Slack" will indicate that the wire is to be sagged with minimum tension.

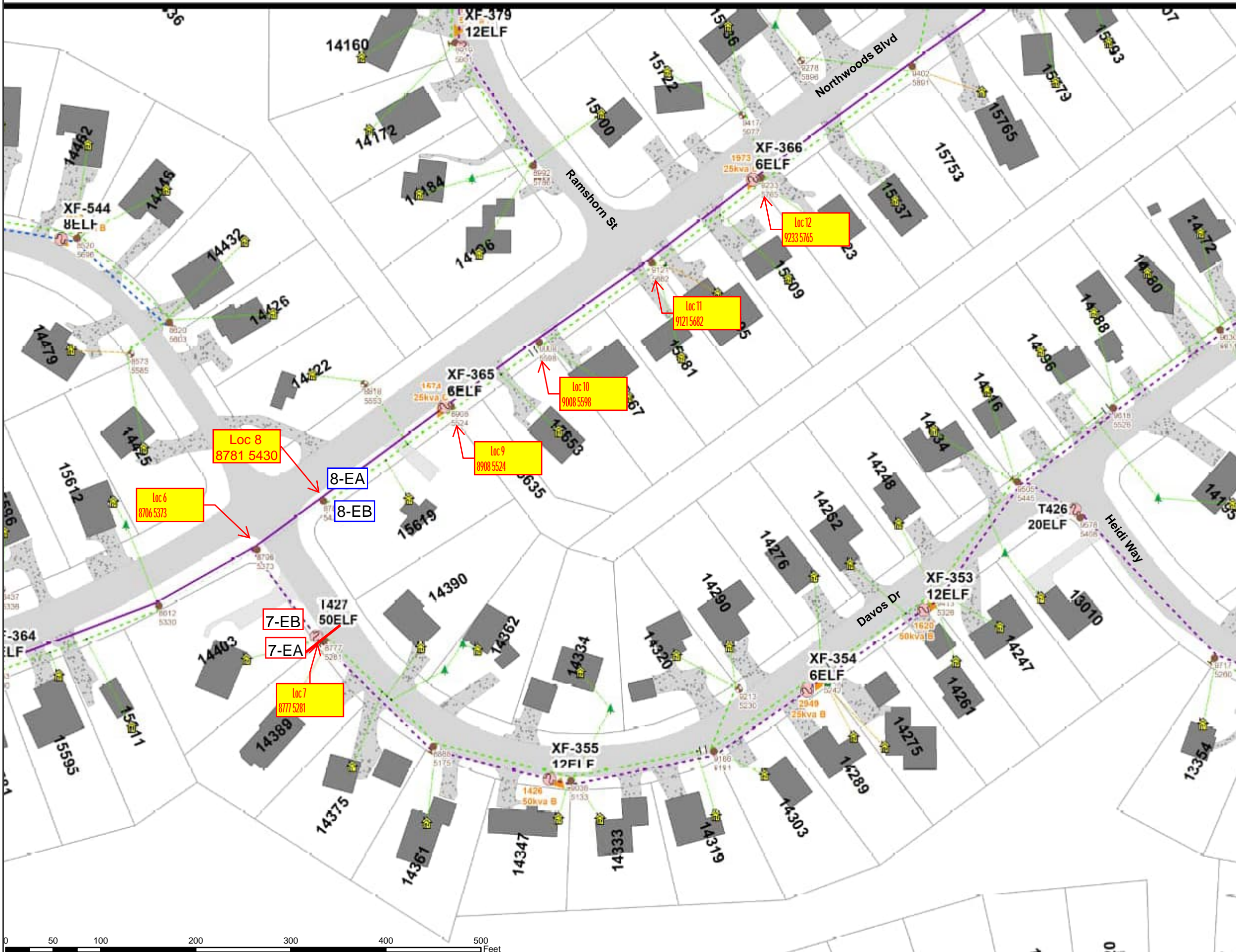
This 3 pole structure to remain. Wire from 59N will deadend to center pole. Wire to be sagged to 1', ~400lbs

WARNING: PHOTOVOLTAIC GENERATION POINT. BEWARE OF BACKFEED.



### Anchoring Plans

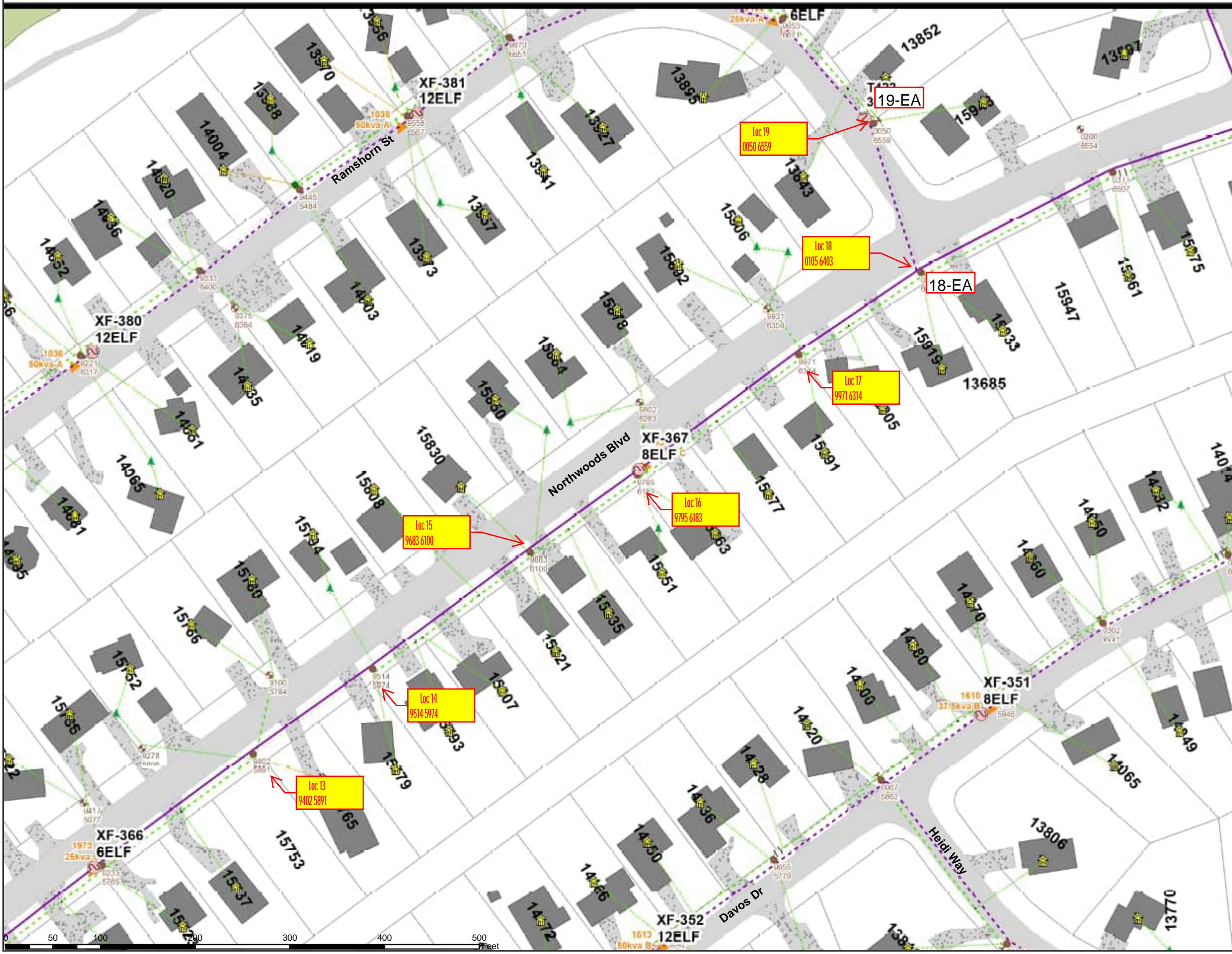
- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.



### Anchoring Plans

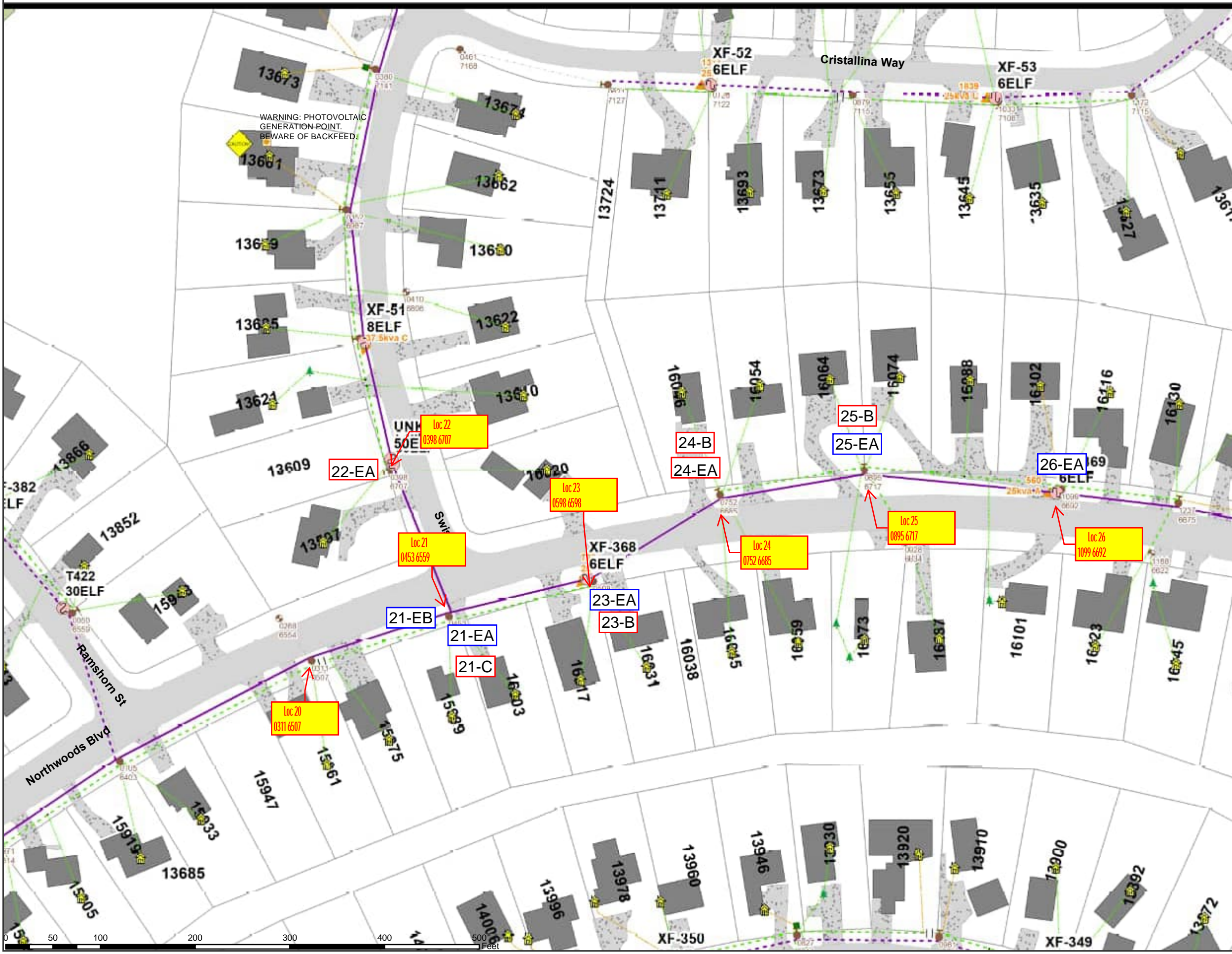
- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.





### Anchoring Plans

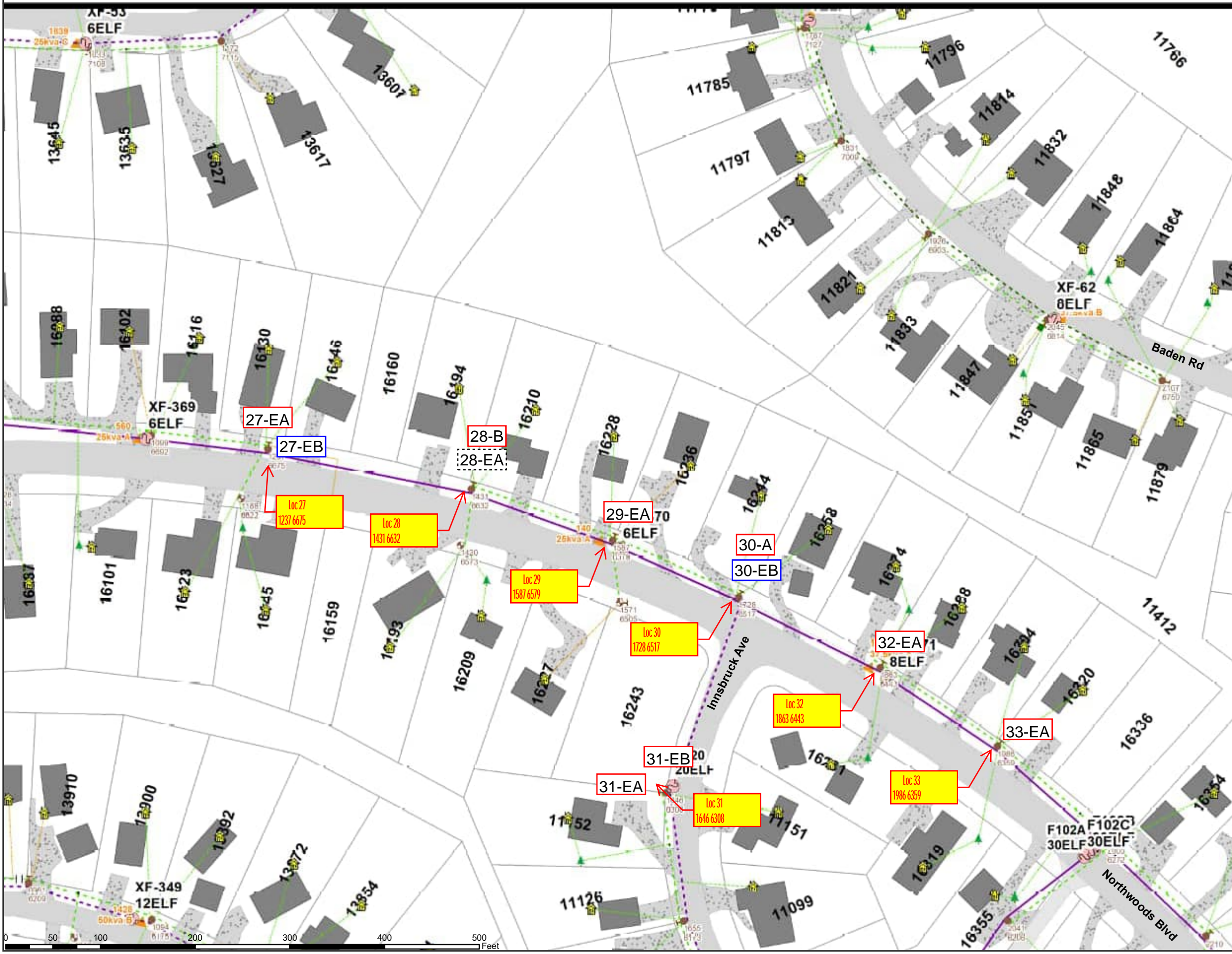
- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.



### Anchoring Plans

- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.

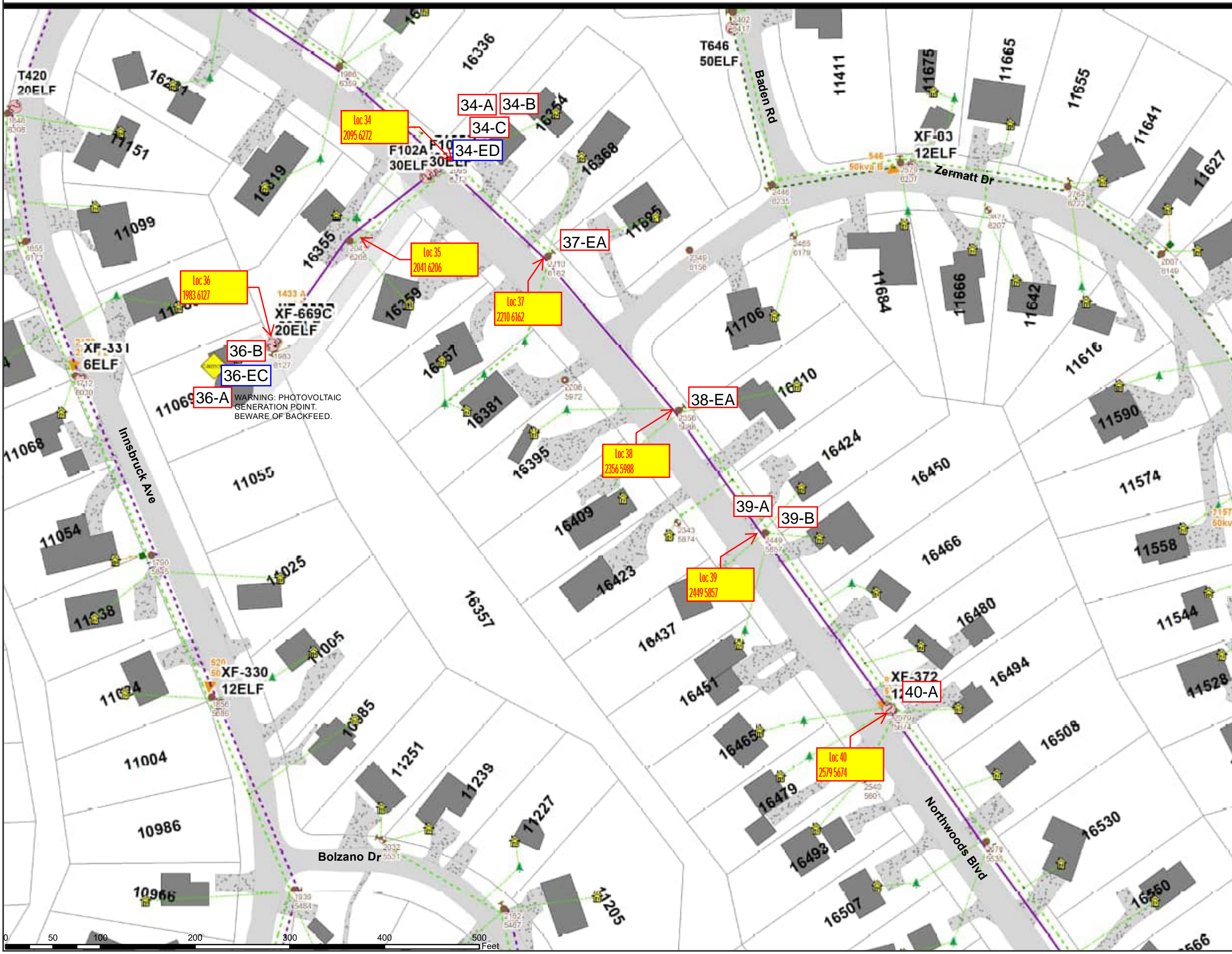




### Anchoring Plans

- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.

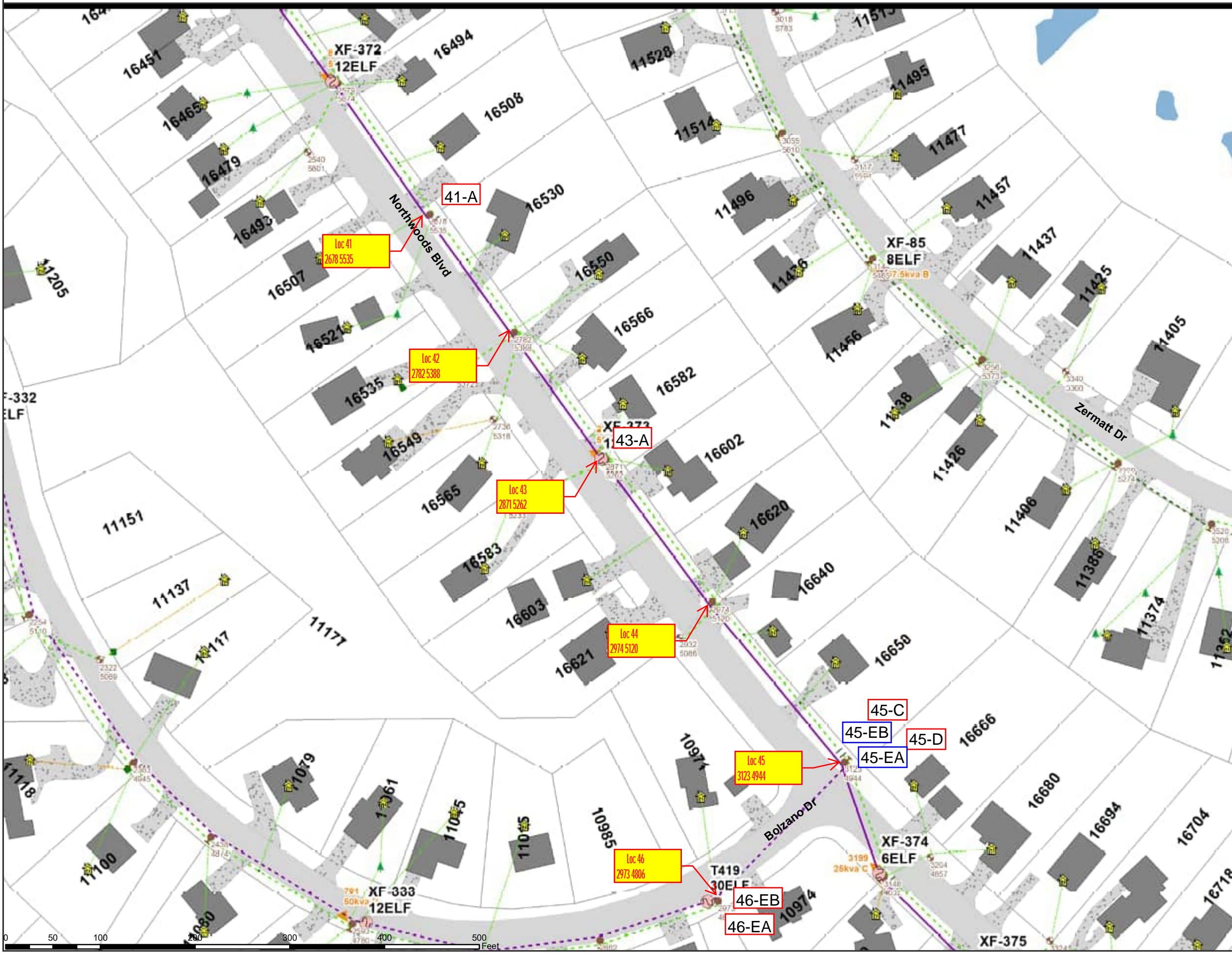




### Anchoring Plans

- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.

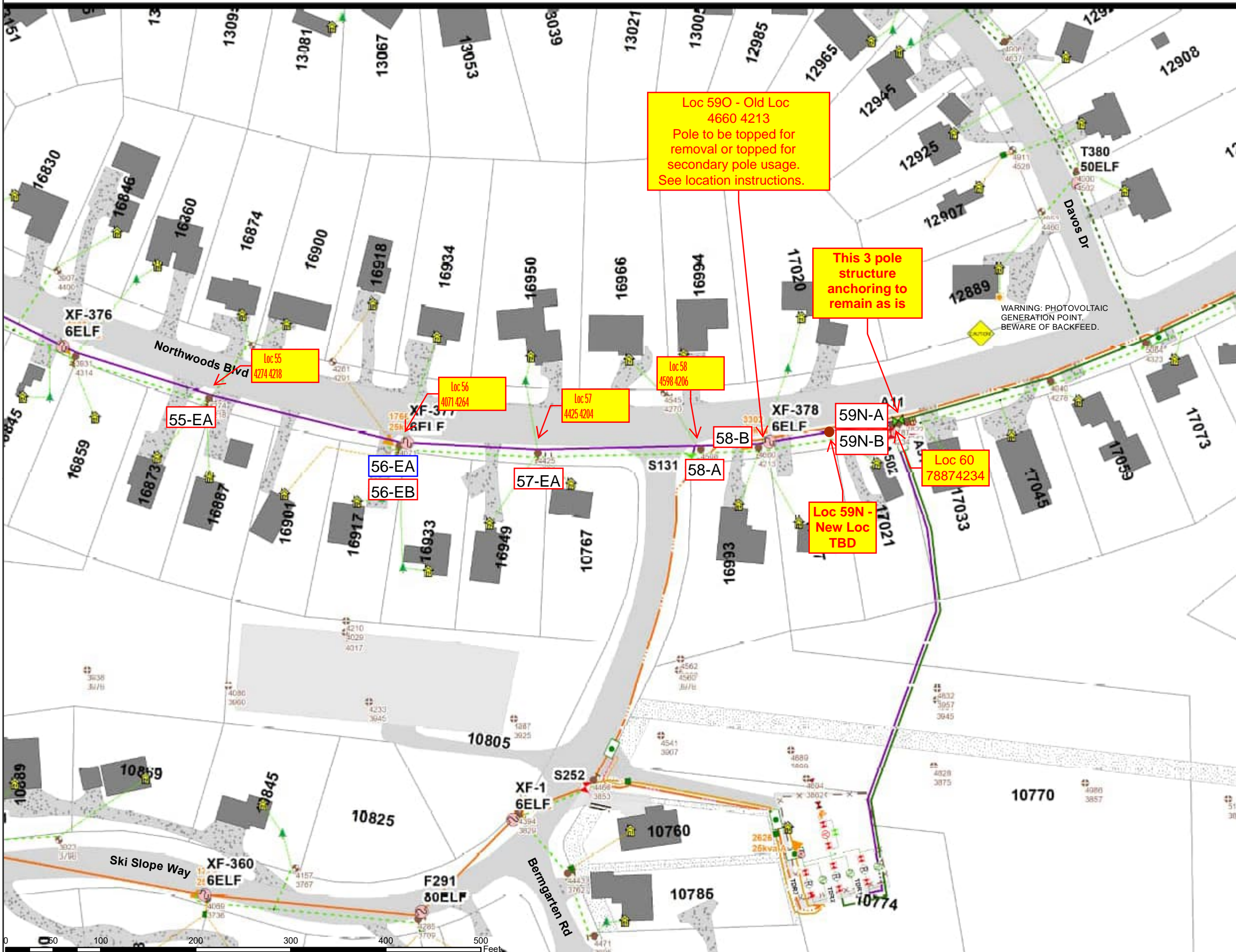
WARNING: PHOTOVOLTAIC  
GENERATION POINT.  
BEWARE OF BACKFEED.



### Anchoring Plans

- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
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- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.





### Anchoring Plans

- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.

Loc 59O - Old Loc  
4660 4213  
Pole to be topped for  
removal or topped for  
secondary pole usage.  
See location instructions.

This 3 pole  
structure  
anchoring to  
remain as is

Loc 55  
4274 4218

Loc 56  
4071 4264

Loc 57  
4425 4204

Loc 58  
4598 4206

58-B

Loc 59N -  
New Loc  
TBD

Loc 60  
78874234

WARNING: PHOTOVOLTAIC  
GENERATION POINT.  
BEWARE OF BACKFEED.



**Install:** Loc 1 80955168  
 C1 50' H2 LWS  
 1-A, 25M, 10' lead, 3/8"DG to secondary.  
 4' Equipment arm for transformer  
 Arrestor and cutout for transformer  
 1-A, 20M, 10' Lead, 3/8DG to secondary  
 4 wire 397 AAC covered to west pole + Loc 2

**Transfer/Existing:**  
 3 Services  
 1P Transformer and fuses.  
 Secondary line to west pole + Loc 2

**Removals:**  
 4 wire bare conductor to west pole + Loc 2

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 2 80955158  
 C1 50' H2 LWS  
 2-B, 20M, 16' lead, 3/8"DG to primary.  
 4 wire 397 AAC covered to Loc 1 + Loc 3

**Transfer/Existing:**  
 2-EA, 15M, Comm only.  
 Secondary line to Loc 1 + Loc 2 + secondary pole to north  
 2 Services

**Removals:**  
 4 wire 397 AAC bare to Loc 1 + Loc 3

**Comm:**  
 3/8" DG to lower comm.

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



**Install:** Loc 5 86125330  
 C1 50' H2 LWS  
 1/4 SG to Loc 6 at secondary  
 4 wire 397 AAC covered to Loc 4 + Loc 6

**Transfer/Existing:**  
 5-EA, 15M, 3/8"DG to primary.  
 Secondary line to Loc 4  
 1 Service

**Removals:**  
 4 wire 397 AAC bare to Loc 4+ Loc 6

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top:\_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours:\_\_\_\_\_
- Traffic Control Flaggers:\_\_\_\_\_
- Traffic Control Hours:\_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 6 87065373  
 C5 50' H2 LWS  
 1/4"SG to Loc 5 secondary, Loc 8 secondary.  
 4 wire 397 AAC covered to Loc 5 + Loc 8  
 2 wire #1/0 ACSR covered to Loc 7

**Transfer/Existing:**

**Removals:**  
 4 wire 397 AAC bare to Loc 5+ Loc 8  
 2 wire #2 ACSR bare to Loc 7

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top:\_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours:\_\_\_\_\_
- Traffic Control Flaggers:\_\_\_\_\_
- Traffic Control Hours:\_\_\_\_\_

Notes: \_\_\_\_\_  
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 \_\_\_\_\_

Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 7 87775281  
 A3 50' H2 LWS  
 4' Equipment arm 3' clearance below deadend arm  
 Cutout on new equipment arm.  
 Secondary riser  
 2 wire #1/0 ACSR covered to Loc 6

**Transfer/Existing:**  
 7-EA, 3/8"DG to primary.  
 7-EB, 3/8"DG to secondary.  
 Secondary line to southeast pole  
 1 service  
 Tap Fuse  
 2 Wire bare conductor to southeast pole

**Removals:**  
 Secondary riser molding.  
 2 Wire bare conductor to Loc 6

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 8 87815430  
 C1 50' H2 LWS  
 4 wire 397 AAC covered to Loc 6 + Loc 9

**Transfer/Existing:**  
 8-EA, Comm only.  
 8-EB, Comm only.  
 1/4SG to loc 7 at secondary.  
 Secondary line to Loc 9

**Removals:**  
 4 wire 397 AAC bare to Loc 6 + Loc 9

**Comm:**  
 8-EA, 3/8"DG to lower comm.  
 8-EB, 3/8"DG to upper comm.

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 9 89085524  
C1 50' H2 LWS  
4' Equipment arm for transformer  
Cutout and arrestor.  
4 wire 397 AAC covered to Loc 8 + Loc 10

**Transfer/Existing:**  
1P XFMR and fuse  
Secondary line to Loc 8 + Loc 10

**Removals:**  
4 wire 397 AAC bare to Loc 8 + Loc 10

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 10 90085598  
C3 50' H2 LWS  
4 wire 397 AAC covered to Loc 9 + Loc 11

**Transfer/Existing:**  
Secondary line to Loc 9 + Loc 10  
1 Service

**Removals:**  
4 wire 397 AAC bare to Loc 9 + Loc 11

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 11 91216582  
C1 50' H2 LWS  
4 wire 397 AAC covered to Loc 10 + Loc 12

**Transfer/Existing:**  
Secondary line to Loc 10 + Loc 12  
1 Service  
Secondary riser

**Removals:**  
4 wire 397 AAC bare to Loc 10 + Loc 12

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 12 92335765  
C1 50' H2 LWS  
4' equipment arm for transformer  
Cutout and arrestor.  
4 wire 397 AAC covered to Loc 11 + Loc 13

**Transfer/Existing:**  
Transformer and fuse.  
Secondary line to Loc 11 + Loc 13 + secondary pole to north.  
1 service

**Removals:**  
4 wire 397 AAC bare to Loc 11 + Loc 13

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 13 94025891  
C1 50' H2 LWS  
4 wire 397 AAC covered to Loc 12 + Loc 14

**Transfer/Existing:**  
Secondary line to Loc 12 + sec pole NW + sec pole NE  
Secondary riser  
1/4"SG at secondary, connect to Loc 14s secondary level

**Removals:**  
4 wire 397 AAC bare to Loc 12 + Loc 14

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 14 95145974  
C1 50' H2 LWS  
4 wire 397 AAC covered to Loc 13 + Loc 15

**Transfer/Existing:**  
1/4"SG at secondary, connect to Loc 13s secondary level  
Secondary line to Loc 14  
2 Services

**Removals:**  
4 wire 397 AAC bare to Loc 13 + Loc 15

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 15 96836100  
C1 50' H2 LWS  
4 wire 397 AAC covered to Loc 14 + Loc 16

**Transfer/Existing:**  
Secondary line to Loc 14 + Loc 16  
3 Services

**Removals:**  
4 wire 397 AAC bare to Loc 14 + Loc 16

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 16 97956183  
C1 50' H2 LWS  
4' equipment arm for transformer  
37.5 kVA XFMR, cutout, arrestor.  
4 wire 397 AAC covered to Loc 15 + Loc 17

**Transfer/Existing:**  
Fuse for XFMR.  
Secondary line to Loc 15 + Loc 17 + Sec pole to north  
3 Services

**Removals:**  
37.5kVA XFMR  
4 wire 397 AAC bare to Loc 15 + Loc 17

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 17 99716314  
C3 50' H2 LWS  
4 wire 397 AAC covered to Loc 16 + Loc 18

**Transfer/Existing:**  
Secondary line to Loc 16 + Loc 18 + Sec pole to north.  
1 service

**Removals:**  
4 wire 397 AAC bare to Loc 16 + Loc 18

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 18 01056403  
C5 50' H2 LWS  
4 wire 397 AAC covered to Loc 17 + Loc 20  
2 wire 1/0 ACSR covered to Loc 19

**Transfer/Existing:**  
18-EA, 15M, 3/8"DG to buck arm, 3/8DG to secondary.  
Secondary to Loc 17 + Loc 20  
1/4"SG at secondary level to Loc 19 crossarm.

**Removals:**  
4 wire 397 AAC bare to Loc 17 + Loc 20  
2 wire #2 ACSR bare to Loc 19

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 19 00506559  
 A3 50' H2 LWS  
 2 wire 1/0 ACSR covered to Loc 18  
 4' Equipment arm 3' clearance below deadend arm  
 Cutout on new equipment arm.

**Transfer/Existing:**  
 19-EA, 15M, 3/8"DG primary.  
 1/4 SG at secondary from Loc 18  
 Secondary line to northwest pole  
 2 services  
 2 wire #2 ACSR bare to northwest pole  
 Fuse to new cutout on equipment arm.

**Removals:**  
 2 wire #2 ACSR bare to Loc 18

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 20 03116507  
 C1 50' H2 LWS  
 4 wire 397 AAC covered to Loc 18 + Loc 21

**Transfer/Existing:**  
 1/4"SG to primary, secondary from stub pole.  
 Secondary line from Loc 18 + Loc 21  
 2 services

**Removals:**  
 4 wire 397 AAC bare to Loc 18 + Loc 21

**Comm:**  
 1/4"SG to upper comm from stub pole

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 21 04536559  
 C6 50' H2 LWS  
 21-C, 25M, 17' Lead backing buck, 3/8DG to primary,  
 3/8DG to buck arm  
 4 wire 397 AAC to Loc 20 + Loc 23  
 4 wire #1/0 ACSR to Loc 22

**Transfer/Existing:**  
 Secondary line from Loc 20 + Loc 23  
 2 services

**Removals:**  
 4 wire #2 bare to Loc 22  
 4 wire 397 AAC bare to Loc 20 + Loc 23

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 22 0398 6707  
 C3 50' H2 Light Steel  
 3/8 DG to primary from 22-EA  
 4 Wire #1/0 ACSR covered conductor to Loc 21  
 8' Equipment arm 3' clearance below deadend arm  
 Cutouts on new equipment arm.

**Transfer/Existing:**  
 Secondary to 1 Pole north  
 2 service drop  
 4 Wire #2 ACSR bare primary from 1 pole North  
 22-EA  
 Tap Fuse

**Removals:**  
 4 Wire bare wire to Loc 21

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



**Install:** Loc 25 0895 6717  
 C1 50' H2 Light Steel  
 25-B, 20M, 18' lead, split line, 7/16 to primary  
 4 Wire 397.5 AAC covered conductor to Loc 24 + Loc 26

**Transfer/Existing:**  
 Secondary to Loc 24 + Loc 26  
 Secondary to 1 pole southeast  
 3 service drop  
 25-EA, comm only.

**Removals:**  
 DG to primary from 25-EA, comm only  
 4 Wire bare primary wire to Loc 24 + Loc 26

**Comm:**  
 3/8 DG to mid comm from 25-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 26 1099 6692  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 25 + Loc 27  
 4' Equipment arm for transformer  
 Arrestor and cutout

**Transfer/Existing:**  
 1 Phase transformer and Fuse  
 Secondary to Loc 25 + Loc 27  
 1 service drop  
 26-EA, comm only

**Removals:**  
 4 Wire bare primary to Loc 25 + Loc 27

**Comm:**  
 3/8 DG to mid comm from 26-EA, comm only.

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 27 1237 6675  
 C1 50' H2 Light Steel  
 3/8 DG to primary from 27-EA  
 4 Wire 397.5 AAC covered conductor to Loc 26 + Loc 28

**Transfer/Existing:**  
 Secondary to Loc 26  
 Secondary to 1 pole southwest  
 Secondary Riser  
 2 service drop  
 27-EA, TDPUD only  
 27-EB, comm only

**Removals:**  
 4 Wire bare primary to Loc 26 + Loc 28

**Comm:**  
 3/8 DG to higher comm from 27-EB

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 28 1431 6632  
 C1 50' H2 Light Steel  
 28-B, 20M, 15' lead, Split Line, 3/8 to primary  
 4 Wire 397.5 AAC covered conductor to Loc 27 + Loc 29

**Transfer/Existing:**  
 Secondary to Loc 29  
 Secondary to 1 pole south  
 2 service drop

**Removals:**  
 4 Wire bare primary to Loc 27 + Loc 29  
 28-EA

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 29 1587 6579  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 28 + Loc 30  
 4' Equipment arm for transformer  
 25kVA 1P transformer

**Transfer/Existing:**  
 Transformer fuse  
 Secondary to Loc 28 + Loc 30; secondary to 1 pole south  
 1 service drop  
 Secondary Riser  
 27-EA, 3/8DG to primary

**Removals:**  
 4 Wire bare primary to Loc 28 + Loc 30  
 1 Phase transformer, cutout, and arrester

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 30 1728 6517  
 C5 50' H2 Light Steel  
 30-A, 20M, 20' lead, split line, 3/8 to Pri, 3/8 to buck arm  
 1/4 SG at secondary to Loc 29  
 4 Wire 397.5 AAC covered conductor to Loc 29 + Loc 32  
 2 Wire #1/0 ACSR covered conductor to Loc 31

**Transfer/Existing:**  
 Secondary to Loc 29  
 2 service drop

**Removals:**  
 4 Wire bare primary to Loc 29 + Loc 32  
 2 Wire bare primary to Loc 31  
 3/8 to primary, 3/8 to secondary from 30-EB, comm only

**Comm:**  
 3/8 DG to higher comm from 30-EB

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:**                      **Loc 31**                      1646 6308  
 A3 50' H2 Light Steel  
 2 Wire #1/0 ACSR covered conductor to Loc 30  
 3/8 DG to primary from 31-EA  
 3/8 DG to secondary from 31-EB  
 4' Equipment arm, cutout, 3' clearance below deadend arm

**Transfer/Existing:**  
 Secondary to a 1 pole south  
 1 service drop  
 2 Wire #2 ACSR bare primary from 1 pole south

**Removals:**  
 2 Wire bare primary to Loc 30

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:**                      **Loc 32**                      1863 6443  
 C3 50' H2 Light Steel  
 3/8 DG to primary from 32-EB  
 4 Wire 397.5 AAC covered conductor to Loc 30 + Loc 33

**Transfer/Existing:**  
 Secondary to Loc 33  
 3 service drop  
 32-EB  
 1/4SG at secondary level to Loc 30

**Removals:**  
 4 Wire bare primary to Loc Loc 30 + Loc 33  
 37.5kVA XFMR, cutout, arrester  
 XFMR to be disposed of, new install at Loc 33

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 33 1986 6359  
 C1 50' H2 Light Steel  
 3/8 DG to primary from 33-EA  
 4 Wire 397.5 AAC covered conductor to Loc 32 + Loc 34  
 37.5kVA XFMR, cutout, arrestor  
 4' Equipment arm for XFMR

**Transfer/Existing:**  
 Fuse for transformer from Loc 32  
 Secondary to Loc 32 + Loc 34  
 3 service drop  
 33-EA

**Removals:**  
 4 Wire bare primary to Loc 32 + Loc 34

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 34 2095 6272  
 C6 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 33 + Loc 37  
 4 Wire #1/0 ACSR covered conductor to Loc 35  
 34-A, 20M, 25' lead, Split Line, 3/8 to primary  
 34-B, 20M, 25' lead, 3/8DG to buck arm  
 34-C, 20M, 20' lead, 3/8 to secondary

**Transfer/Existing:**  
 Secondary to Loc 33 + Loc 35 + Loc 37  
 1 service drop

**Removals:**  
 4 Wire bare primary to Loc 33 + Loc 35+ Loc 37  
 3/8 to primary, 3/8 to secondary from 34-ED, comm only

**Comm:**  
 3/8 DG to higher comm from 34-ED

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 35 2041 6206  
C1 50' H2 Light Steel  
4 Wire #1/0 ACSR covered conductor to Loc 34 + Loc 36

**Transfer/Existing:**  
Secondary to Loc 34 + Loc 36  
1 service drop

**Removals:**  
4 Wire bare primary to Loc 34 + Loc 36

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 36 1983 6127  
C2 50' H2 Light Steel  
36-A, 25M, 15' lead, 3/8 to primary  
36-B, 20M, 12' lead, 3/8 to secondary  
4 Wire #1/0 ACSR covered conductor to Loc 35  
Cutouts, arrestors  
8' Equipment arm for transformer

**Transfer/Existing:**  
Transformers bank and fuses  
Secondary to Loc 35  
Secondary Riser

**Removals:**  
3/8 to primary, 3/8 to secondary from 36-EC, comm only

**Comm:**  
3/8 DG to higher comm from 36-EC

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 37 2210 6162  
 C1 50' H2 Light Steel  
 3/8 DG to primary from 37-EA  
 4 Wire 397.5 AAC covered conductor to Loc 34 + Loc 38

**Transfer/Existing:**  
 Secondary to Loc 34  
 3 service drop  
 37-EA  
 1/4 SG at secondary to Loc 38

**Removals:**  
 4 Wire bare primary to Loc 34 + Loc 38

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 38 2356 5988  
 C1 50' H2 Light Steel  
 3/8 DG to primary from 38-EA  
 4 Wire 397.5 AAC covered conductor to Loc 37 + Loc 39

**Transfer/Existing:**  
 Secondary to Loc 39  
 3 service drop  
 38-EA, joint anchor  
 1/4 SG at secondary to Loc 37

**Removals:**  
 4 Wire bare primary to Loc 37 + Loc 39

**Comm:**  
 3/8 DG to higher comm from from 38-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 39 2449 5857  
 C3 50' H2 Light Steel  
 39-A, 15M, 10' 3/8 DG to crossarm, backing SE span  
 39-B, 15M, 10' lead, 3/8 to primary  
 4 Wire 397.5 AAC covered conductor to Loc 38 + Loc 40

**Transfer/Existing:**  
 Secondary to Loc 38 + Loc 40  
 4 service drop

**Removals:**  
 4 Wire bare primary to Loc 38 + Loc 40

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 40 2579 5674  
 C1 50' H2 Light Steel  
 40-A, 20M, 10' lead, 3/8 to secondary  
 4 Wire 397.5 AAC covered conductor to Loc 39 + Loc 41  
 1P 50kVA XFMR, cutout, arrestor  
 4' Equipment crossarm for XFMR

**Transfer/Existing:**  
 XFMR fuse  
 Secondary to Loc 39 + Loc 41 + 1 pole southwest  
 3 service drop

**Removals:**  
 4 Wire bare primary to Loc 39 + Loc 41

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 41 2678 5535  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 40 + Loc 42  
 41-A, 20M, 10' lead, 3/8 to secondary

**Transfer/Existing:**  
 Secondary to Loc 40 + Loc 42  
 2 service drop

**Removals:**  
 4 Wire bare primary to Loc 40 + Loc 42

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 42 2782 5388  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 41 + Loc 43

**Transfer/Existing:**  
 Secondary to Loc 41 + Loc 43 + 1 pole west + 1 pole southwest  
 2 service drop

**Removals:**  
 4 Wire bare primary to Loc 41 + Loc 43

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 43 2871 5262  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 42 + Loc 44  
 50kVA XFMR, cutout, arrestor  
 4' Equipment crossarm for XFMR  
 43-A, 20M, 10' lead, 3/8 DG to secondary

**Transfer/Existing:**  
 XFMR Fuse  
 Secondary to Loc 42 + Loc 44 + 1 pole southwest  
 2 service drop

**Removals:**  
 4 Wire bare primary to Loc 42 + Loc 44

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 44 2974 5120  
 C3 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 43 + Loc 45

**Transfer/Existing:**  
 Secondary to Loc 43 + Loc 45 + 1 pole southwest  
 2 service drop  
 1/4 SG at primary, from 1 pole southwest

**Removals:**

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



**Install:** Loc 47 3148 4832  
 C3 50' H2 Light Steel  
 47-A, 25M, 25' lead, 7/16 DG to primary  
 47-B, 25M, 20' lead, 3/8 DG to 4' above secondary,  
 3/8 DG to Sec  
 4 Wire 397.5 AAC covered conductor to Loc 45 + Loc 48  
 Secondary Riser  
 4' Equipment crossarm for XFMR  
 Cutout, arrestor

**Transfer/Existing:**  
 Secondary to Loc 45 + Loc 48  
 Secondary to 1 Pole East  
 Transformer and fuse

**Removals:**  
 Secondary riser molding  
 4 Wire bare primary to Loc 45 + Loc 48  
 3/8 DG to Pri, 3/8 DG to Sec from 47-EC, comm only

**Comm:**  
 3/8 DG to higher comm, 3/8 DG to lower comm from 47-ED

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 48 3273 4717  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 47 + Loc 49  
 4' Equipment crossarm for XFMR  
 Cutout, arrestor

**Transfer/Existing:**  
 1 Phase transformer and fuse  
 Secondary to Loc 47 + Loc 49  
 Secondary to 1 pole northeast  
 1 service drop  
 3/8DG from 48-EA to primary

**Removals:**  
 4 Wire bare primary to Loc 47 + Loc 49

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 49 3361 4645  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 48 + Loc 50

**Transfer/Existing:**  
Secondary to Loc 48 + Loc 50  
Secondary to 1 pole east  
1 service drop

**Removals:**  
4 Wire bare primary to Loc 48 + Loc 50

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 50 3471 4566  
C1 50' H2 Light Steel  
Secondary riser  
4 Wire 397.5 AAC covered conductor to Loc 49 + Loc 51

**Transfer/Existing:**  
Secondary to Loc 49 + Loc 51  
50-EB  
3/8 SG at secondary to Loc 51  
3/8 DG to primary from 50-EB

**Removals:**  
4 Wire bare primary to Loc 49 + Loc 51  
Secondary riser molding

**Comm:**  
3/8 DG to lower comm from 50-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 51 3642 4457  
 C5 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 50 + Loc 53  
 2 Wire #1/0 ACSR covered conductor to Loc 52

**Transfer/Existing:**  
 Secondary to Loc 53  
 Secondary Riser  
 1/4 SG at primary tap crossarm to Stub Pole  
 1/4 SG at secondary to Loc 50  
 Tap fuse and cutout to Loc 52  
 TDPUD Fiber, at original height with original hardware.  
 TDPUD Fiber riser

**Removals:**  
 4 Wire bare primary to Loc 50 + Loc 53  
 2 Wire bare primary to Loc 52

**Comm:**  
 TDPUD Fiber, at original height with original hardware.

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 52 3487 4365  
 A3 50' H2 Light Steel  
 3/8 DG to primary from 52-EB  
 3/8 DG to secondary from 52-EA  
 4' Equipment arm, 3' below deadend crossarm  
 Cutout and arrestor  
 2 Wire #1/0 ACSR covered conductor to Loc 51

**Transfer/Existing:**  
 Secondary to 1 pole west  
 3 service drop  
 2 Wire bare primary from 1 pole west  
 Tap fuse from Loc 51

**Removals:**  
 3/8 DG to primary from 52-EC  
 2 Wire bare conductor to Loc 51

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 53 3763 4391  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 51 + Loc 54

**Transfer/Existing:**  
 Secondary to Loc 51 + Loc 54  
 1 service drop  
 3/8DG from 53-EA to Primary  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 4 Wire bare primary to Loc 51 + Loc 54

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 54 3931 4314  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 53 + Loc 55  
 4' Equipment arm for transformer  
 Cutout and arrestor

**Transfer/Existing:**  
 1 Phase transformer and fuse  
 Secondary to Loc 53 + Loc 55  
 1 service drop  
 3/8 DG from 54-EA to primary  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 3/8 to primary, 3/8 to secondary from 54-EA, comm only  
 4 Wire bare primary to Loc 53 + Loc 55

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 55 4274 4218  
 C3 50' H2 Light Steel  
 3/8 DG to primary from 55-EA  
 4 Wire 397.5 AAC covered conductor to Loc 54 + Loc 56

**Transfer/Existing:**  
 Secondary to Loc 54  
 Secondary to 1 pole north  
 2 service drop  
 55-EA  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 4 Wire bare primary to Loc 54 + Loc 56

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 56 4071 4264  
 C1 50' H2 Light Steel  
 3/8 to primary from 56-EB  
 4 Wire 397.5 AAC covered conductor to Loc 55 + Loc 57  
 4' Equipment arm for transformer  
 Cutout and arrestor  
 Secondary riser

**Transfer/Existing:**  
 Secondary to Loc 57  
 Secondary to 1 pole northwest  
 3 service drop  
 Transformer and fuse  
 56-EB  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 Secondary riser molding  
 4 Wire bare primary to Loc 55 + Loc 57  
 3/8 to primary from 56-EB

**Comm:**  
 3/8 DG to higher comm from 56-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 57 4425 4204  
 C1 50' H2 Light Steel  
 3/8 DG to primary from 57-EA  
 4 Wire 397.5 AAC covered conductor to Loc 56 + Loc 58

**Transfer/Existing:**  
 Secondary to Loc 56 + Loc 58  
 3 service drop  
 57-EA  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 4 Wire bare primary to Loc 56 + Loc 58

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 58 4598 4206  
 C1 50' H2 Light Steel  
 58-A, 25M, 15' lead, southeast, 3/8 to Pri, 3/8 to Sec  
 58-B, 25M, 10' lead, backing west span, 3/8DG to crossarm  
 8' Equipment arm for primary riser  
 8' Equipment arm for disconnects  
 4 Wire 397.5 AAC covered conductor to Loc 57 + Loc 59

**Transfer/Existing:**  
 Secondary to Loc 57 + Loc 59  
 Secondary to 1 pole northwest  
 Primary riser  
 TDPUD Fiber, at original height with original hardware.

**Removals:**  
 4 Wire bare primary to Loc 57 + Loc 59

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_







## Construction Summary

			TD2
A2	Pole Hole Excavation	EA	19
A3	Remove Pole Top to Communications Level and Install Metal Pole Design A1	EA	0
A4	Remove Pole Top to Communications Level and Install Metal Pole Design A2	EA	0
A5	Remove Pole Top to Communications Level and Install Metal Pole Design A3	EA	2
A6	Remove Pole Top to Communications Level and Install Metal Pole Design C1	EA	8
A7	Remove Pole Top to Communications Level and Install Metal Pole Design C2	EA	0
A8	Remove Pole Top to Communications Level and Install Metal Pole Design C3	EA	5
A9	Remove Pole Top to Communications Level and Install Metal Pole Design C4	EA	0
A10	Remove Pole Top to Communications Level and Install Metal Pole Design C5	EA	2
A11	Remove Pole Top to Communications Level and Install Metal Pole Design C6	EA	2
A12	Remove Bare 4-wire Conductor and Install Covered Conductor 397.5 AAC 4-wire	FT	2500
A13	Remove Bare 4-wire or 2-wire Conductor and Install Covered Conductor 1/0 ACSR 4-wire or 2-wire	FT	280
A14	Install Anchors (Screw Anchors preferred)	EA	14
A15	Transfer or Install Transformer from old Pole to New Pole + Installation of Equipment Arm	EA	4
A16	Transfer Secondary/Services from old Pole to New Pole	EA	30
A17	Install/Transfer Down/Span Guys per standard	EA	28
A18	Transfer TDPUD Fiber Line	EA	0
A19	Rebuild Secondary Riser	EA	0
A20	Transfer Secondary Riser	EA	2
A21	Rebuild Primary Riser 1Phase	EA	0
A22	Rebuild Primary Riser 3Phase	EA	0
A23	Transfer Primary Riser 1Phase	EA	3
A24	Transfer Primary Riser 3Phase	EA	0
A25	Tap Fuse Transfer/Equipment Arm Install 1Phase	EA	1
A26	Tap Fuse Transfer/Equipment Arm Install 3Phase	EA	1

### Wire and Tensioning Plans

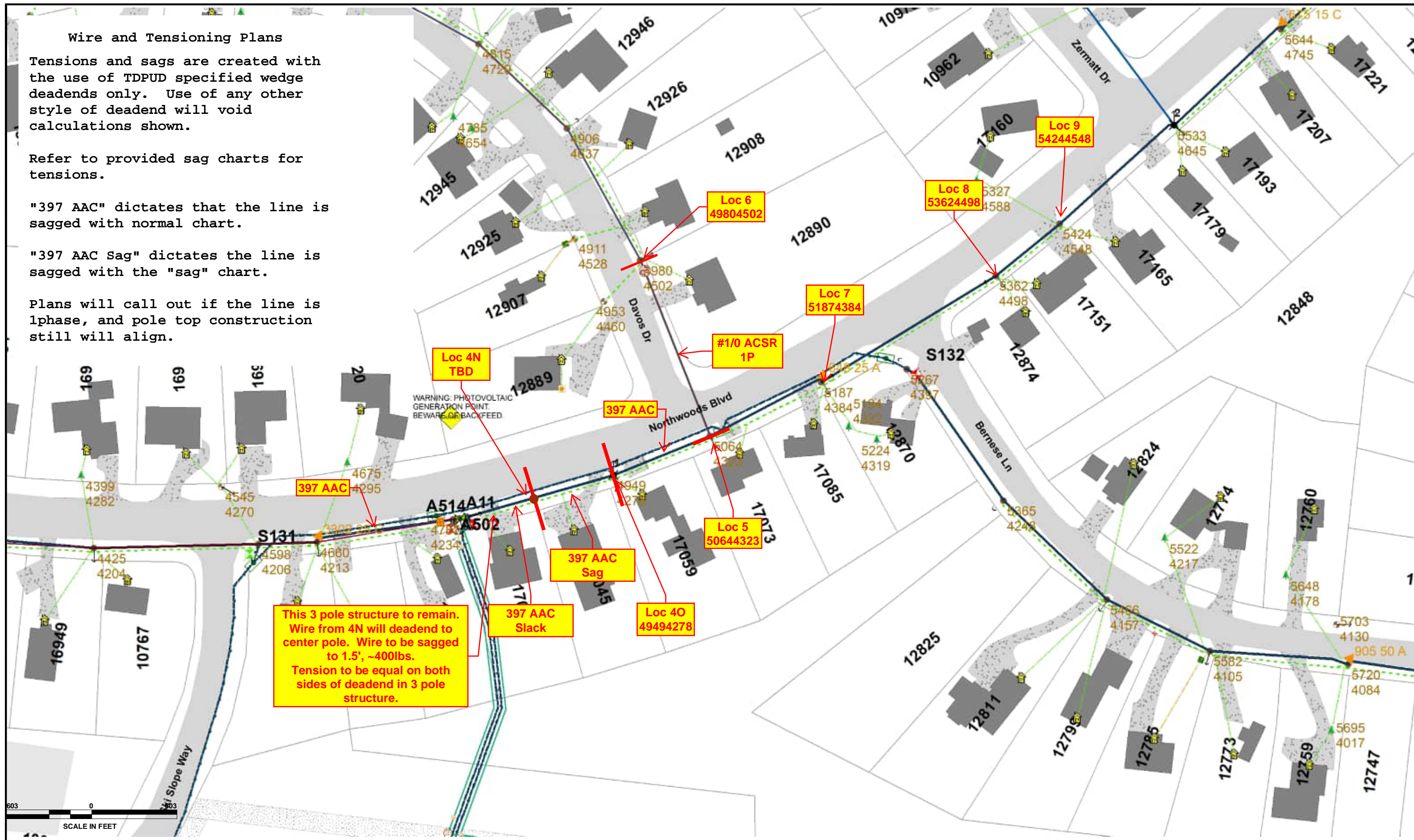
Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

Refer to provided sag charts for tensions.

"397 AAC" dictates that the line is sagged with normal chart.

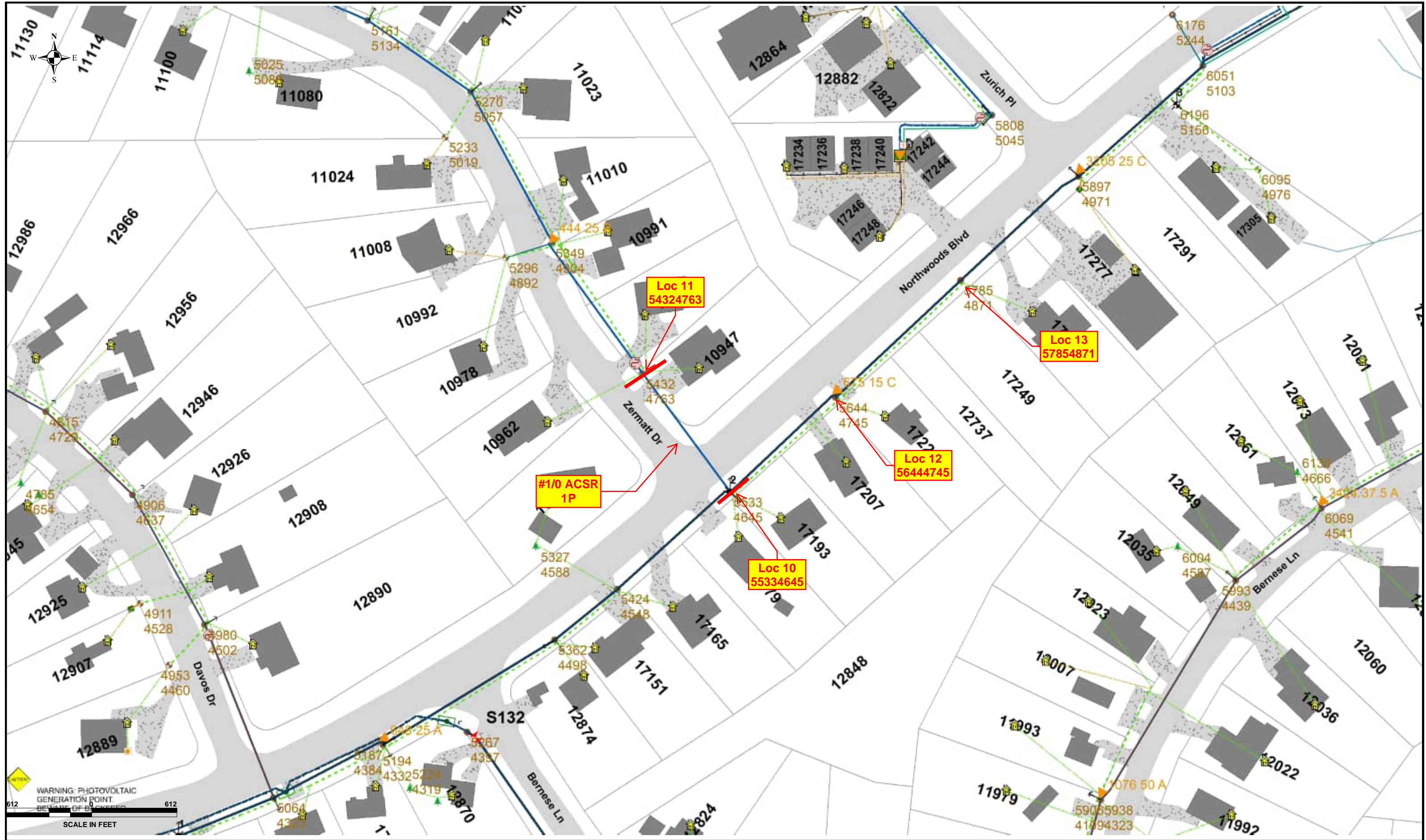
"397 AAC Sag" dictates the line is sagged with the "sag" chart.

Plans will call out if the line is 1phase, and pole top construction still will align.



Name:

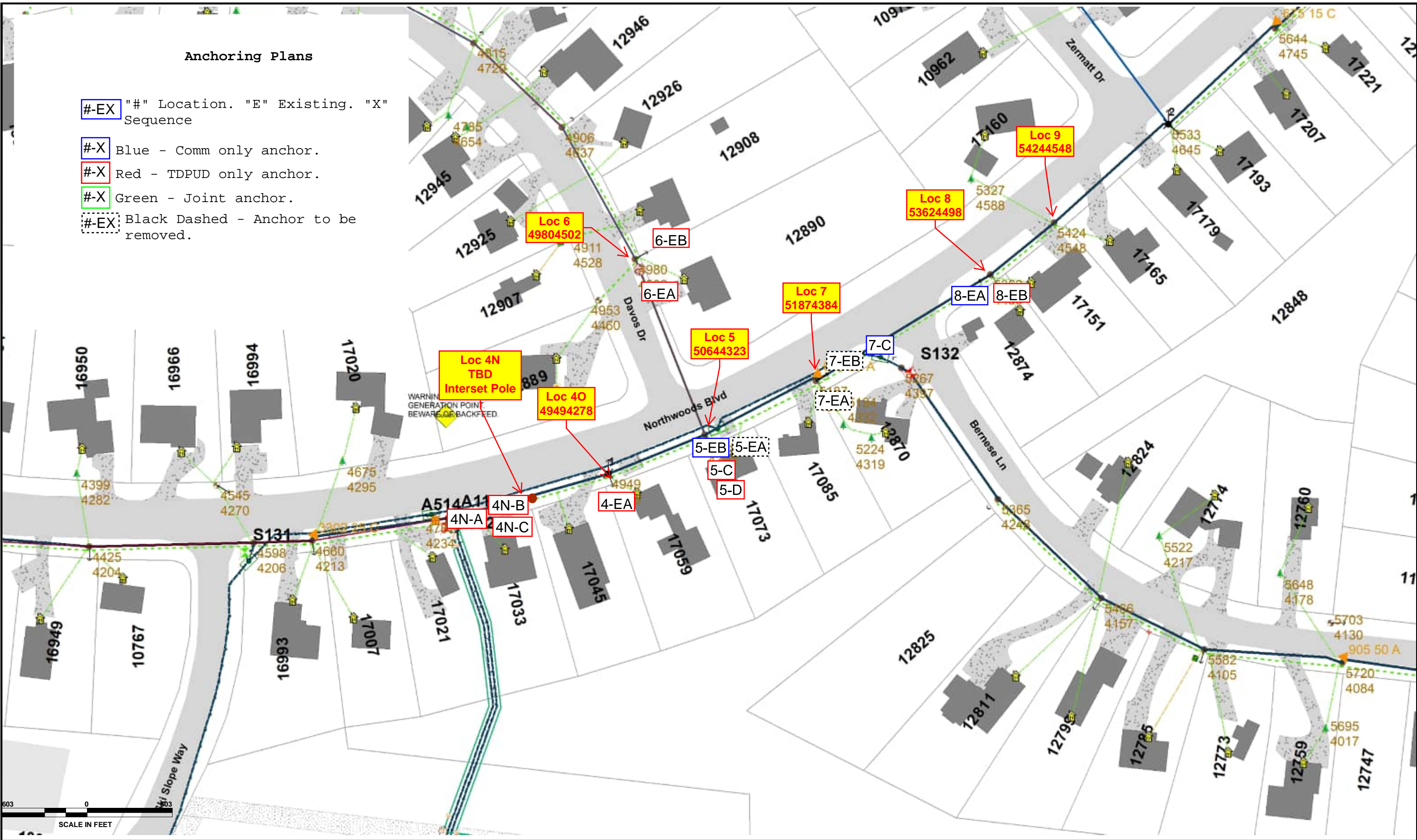
# Work Order: 2664680





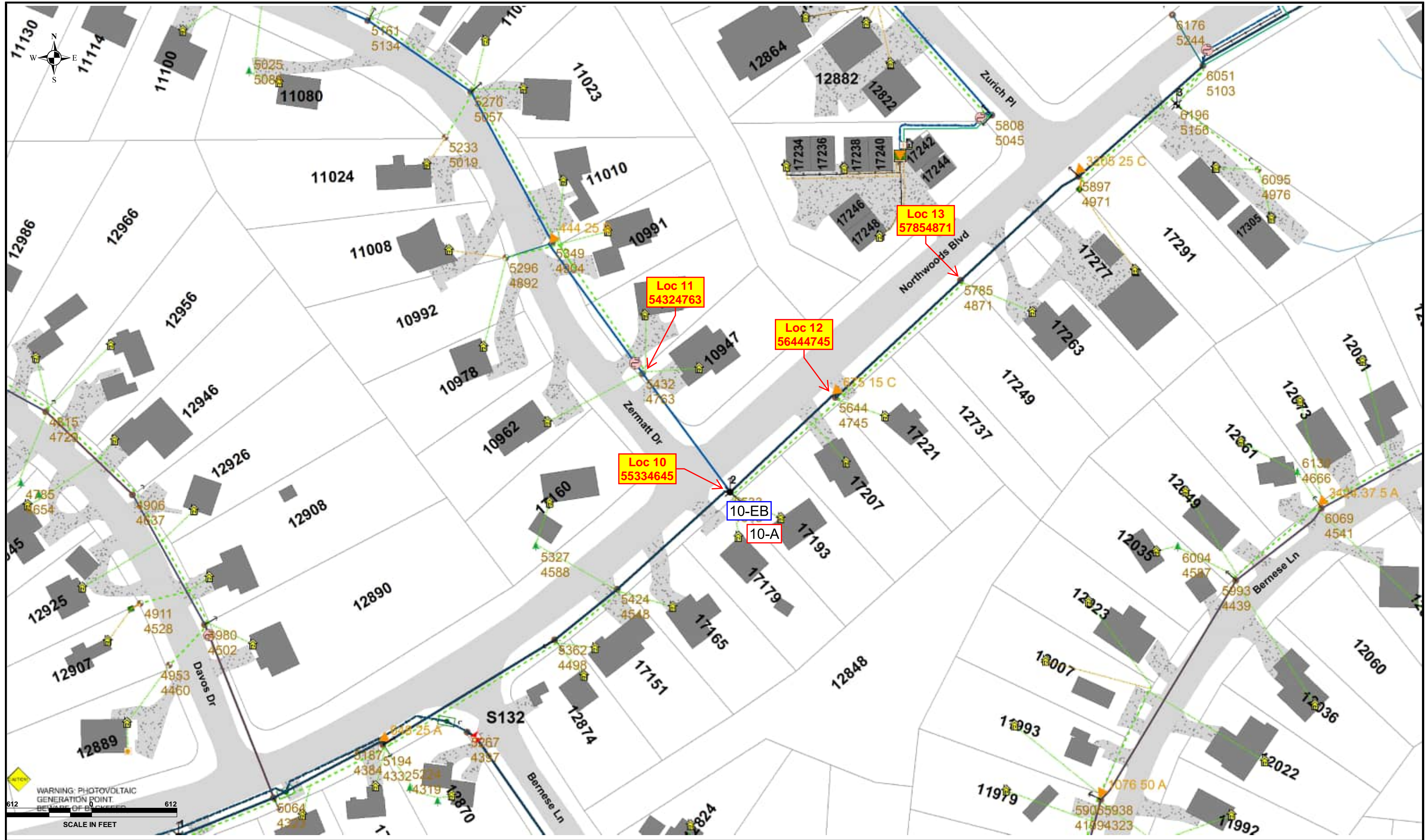


# Work Order: 2664680



Name:

# Work Order: 2664680



Name:

Work Order: 2664680







**Install:** Loc 5 5064 4323  
 C5 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 40 + Loc 7  
 2 Wire #1/0 ACSR covered conductor to Loc 6  
 5-D, 20M, 15' Lead, split Line, 3/8 to Primary  
 5-C, 20M, 12' Lead, backing tap, 3/8 to buck crossarm

**Transfer/Existing:**  
 Secondary to Loc 40 + Loc 7  
 5-EB, comm only

**Removals:**  
 4 Wire bare primary to Loc 40 + Loc 7  
 2 Wire bare primary to Loc 6  
 5-EA if TDPUD only attacher

**Comm:**  
 3/8 DG to higher comm from 5-EB, comm only

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 6 4980 4502  
 A3 50' H2 Light Steel  
 2 Wire #1/0 ACSR covered conductor to Loc 5  
 3/8 DG to Primary from 6-EB  
 3/8 DG to Secondary from 6-EA

**Transfer/Existing:**  
 2 Wire bare primary to 1 pole northwest  
 Secondary to 1 pole northwest  
 4 Service drops  
 6-EB, 6-EA

**Removals:**  
 2 Wire bare primary to Loc 5  
 3/8 DG to Primary from 6-EB  
 3/8 DG to Secondary from 6-EA

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 7 5187 4384  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 5 + Loc 8  
 25kVA XFMR, cutout, arrestor  
 4' Equipment arm for transformer

**Transfer/Existing:**  
 Transformer fuse  
 Secondary to Loc 5 + Loc 8  
 2 Service drop

**Removals:**  
 4 Wire bare primary to Loc 5 + Loc 8  
 3/8 to Primary from 7-EA  
 7-EA if TDPUD only attacher

**Comm:**  
 Remove 7-EB, Comm Only  
 Install 7-C, 25M, 15, dead-end, 3/8 DG to mid, 3/8 high Comm

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 8 5362 4498  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 7 + Loc 9  
 3/8 DG to Primary, 3/8 DG to Secondary from 8-EB

**Transfer/Existing:**  
 Secondary to Loc 7 + Loc 9  
 2 Service drop  
 8-EB

**Removals:**  
 4 Wire bare primary to Loc 7 + Loc 9

**Comm:**  
 3/8 DG to higher comm, 8-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 9 5424 4548  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 8 + Loc 10

**Transfer/Existing:**  
Secondary to Loc 8  
2 Service drop

**Removals:**  
4 Wire bare primary to Loc 8 + Loc 10

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 10 5533 4645  
C5 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 9 + Loc 12  
2 Wire 1/0 ACSR covered conductor to Loc 11  
10-A, 20M, 20' lead, backing tap, 3/8 DG to pri, 3/8 DG sec

**Transfer/Existing:**  
Secondary to Loc 12  
2 Service drop  
1/4 SG at Secondary to Loc 11

**Removals:**  
4 Wire bare primary to Loc 9 + Loc 12  
2 Wire bare primary to Loc 11

**Comm:**  
3/8 DG to higher comm from 10-EB

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 11 5432 4763  
 A3 50' H2 Light Steel  
 4' Equipment arm for cutout and fuse, 3' below deadend arm.  
 Cutout for new equipment arm  
 2 Wire 1/0 ACSR covered conductor to Loc 10

**Transfer/Existing:**  
 2 Wire bare primary from 1 pole northwest  
 Secondary to 1 pole northwest  
 3 Service drop  
 1/4 SG at Secondary to Loc 10  
 Tap Fuse

**Removals:**  
 2 Wire bare primary to Loc 10

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 12 5644 4745  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 10 + Loc 13  
 4' equipment arm for transformer, cutout and arrestor

**Transfer/Existing:**  
 1 Phase transformer and cutout  
 Secondary to Loc 10 + Loc 13  
 1 Service drop  
 Transformer and fuse

**Removals:**  
 4 Wire bare primary to Loc 10 + Loc 13  
 Cutout and arrestor

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 13 5785 4871  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 12 + Loc 14  
 1/4 SG from secondary to Loc 14 at secondary level

**Transfer/Existing:**  
 Secondary to Loc 12  
 1 Service drop

**Removals:**  
 4 Wire bare primary to Loc 12 + Loc 14  
 SG from secondary to Loc 14 at secondary level

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 14 5897 4971  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 13 + Loc 15  
 1/4 SG from secondary to Loc 13 at secondary Level  
 4' Equipment arm for transformer, cutout and arrestor  
 3/8 DG from 14-EA to primary

**Transfer/Existing:**  
 Transformer and fuse  
 Secondary to Loc 15  
 Secondary Riser

**Removals:**  
 4 Wire bare primary to Loc 13 + Loc 15

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



**Install:** Loc 17 6386 5325  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 16 + Loc 18  
 10-A, 20M, 15' Lead, Split Line, 3/8 DG to Primary  
 4' equipment arm for riser

**Transfer/Existing:**  
 Primary riser + termination + disconnect + fuse  
 10-EB, comm only

**Removals:**  
 4 Wire bare primary to Loc 16 + Loc 18

**Comm:**  
 3/8 DG to higher comm from 17-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 18 6520 5460  
 C6 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 17 + Loc 20  
 4 Wire 1/0 ACSR covered conductor to Loc 19  
 18-C, 20M, 23' lead, split line, 3/8 DG to Primary,  
 18-B, 20M, 20' lead, backing tap, 3/8 DG to buck crossarm

**Transfer/Existing:**

**Removals:**  
 4 Wire bare primary to Loc Loc 17 + Loc 20  
 4 Wire bare primary to Loc 19  
 DG to pri main + DG to pri tap, 18-EA, comm only

**Comm:**  
 3/8 DG to higher comm from 18-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 19 6424 5527  
 C3 50' H2 Light Steel  
 4 Wire #1/0 ACSR covered conductor to Loc 18  
 8' equipment arm 3' below deadend crossarm  
 3 Cutouts, 3 arrestors, for in-line fuses

**Transfer/Existing:**  
 4 Wire bare primary to 1 pole northwest  
 Tap fuses

**Removals:**  
 4 Wire bare primary to Loc 18

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 20 6589 5551  
 C3 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 18 + Loc 21  
 20-D, 20M, 20' lead, split line, 7/16 DG to Primary  
 20-C, 20M, 17' lead, split line, 7/16 DG 1' below primary attach  
 4' equipment arm for transformer, cutout and arrestor

**Transfer/Existing:**  
 1 Phase transformer and fuse  
 Secondary Riser

**Removals:**  
 4 Wire bare primary to 18 + Loc 21  
 3/8 DG to Primary from 20-EA  
 3/8 DG to Primary from 20-EB, comm only  
 20-EA if TDPUD only

**Comm:**  
 3/8 DG to higher comm from 20-EB

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 21 6629 5755  
C6 50' H2 Light Steel  
21-B, 20M, 25' lead, backing tap, 7/16" DG to Primary  
21-C, 20M, 25' lead, backing tap, 1/2 DG to Primary  
21-D, 20M, 18' lead, backing sec tap, 1/2 DG to secondary  
4 Wire 397.5 AAC covered conductor to Loc 20

**Transfer/Existing:**  
4 Wire 397.5 AAC Bare conductor to 1 pole west + 1 pole east  
Secondary to to 1 pole west + 1 pole east  
Secondary to Pole southeast

**Removals:**  
21-EE  
21-EF

**Comm:**  
21-A, 25M, 15' lead, 3/8 DG to Second highest Comm,  
3/8 DG to mid Comm

**Install:**

**Transfer/Existing:**

**Removals:**

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

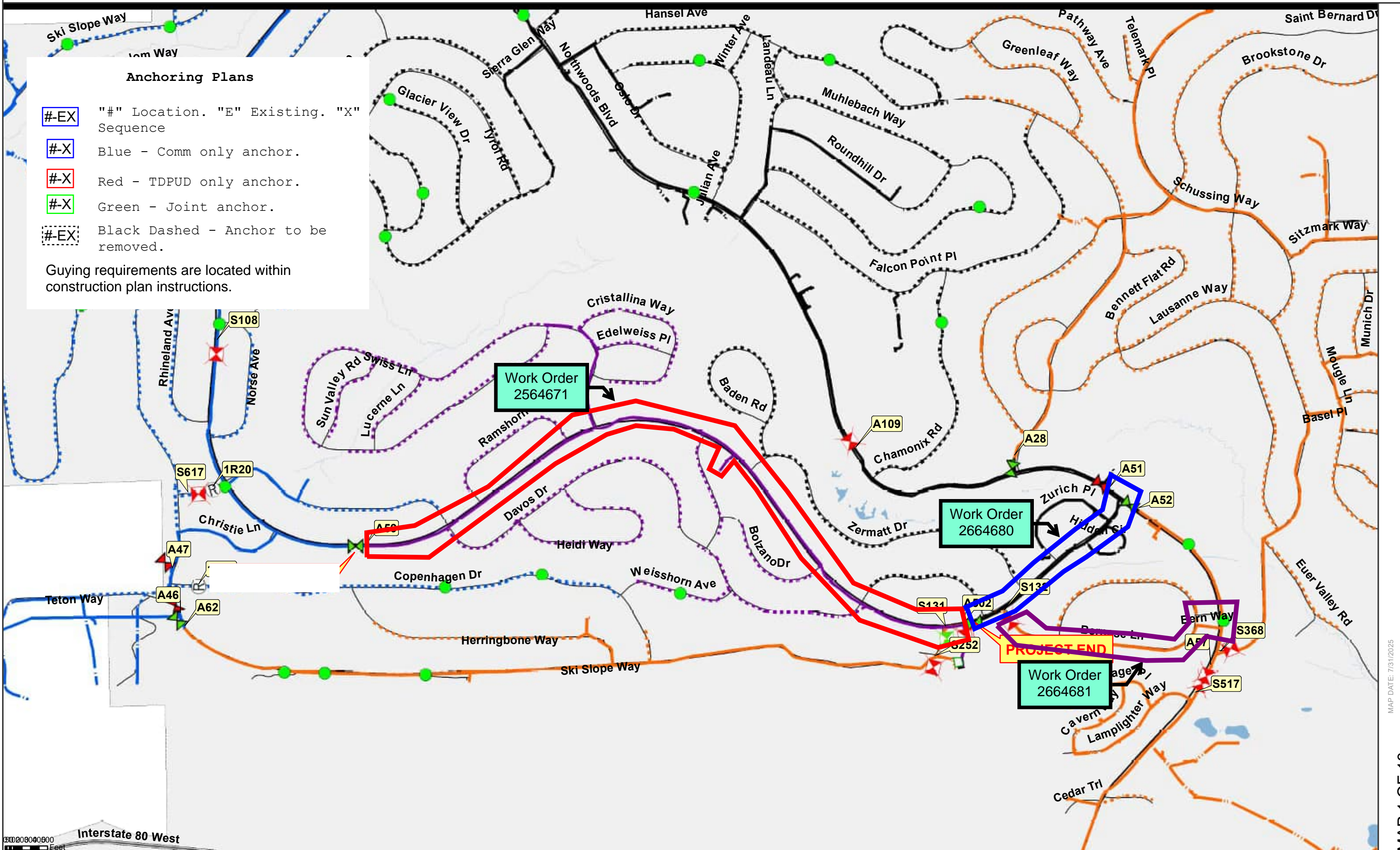
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Anchoring Plans**

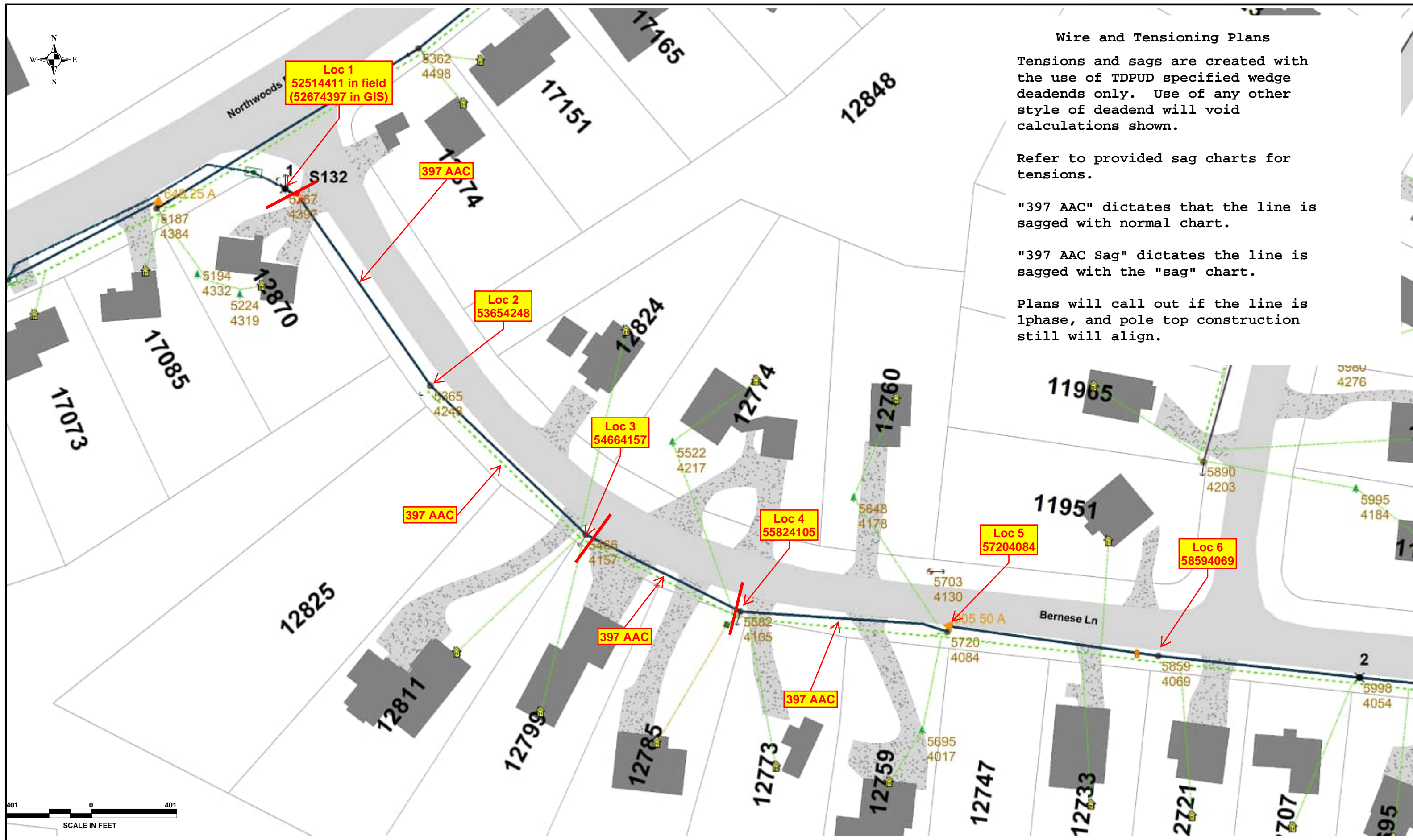
- #-EX "# Location. "E" Existing. "X" Sequence
- #-X Blue - Comm only anchor.
- #-X Red - TDPUD only anchor.
- #-X Green - Joint anchor.
- #-EX Black Dashed - Anchor to be removed.

Guying requirements are located within construction plan instructions.



## Construction Summary

			TD3
A2	Pole Hole Excavation	EA	23
A3	Remove Pole Top to Communications Level and Install Metal Pole Design A1	EA	0
A4	Remove Pole Top to Communications Level and Install Metal Pole Design A2	EA	0
A5	Remove Pole Top to Communications Level and Install Metal Pole Design A3	EA	1
A6	Remove Pole Top to Communications Level and Install Metal Pole Design C1	EA	12
A7	Remove Pole Top to Communications Level and Install Metal Pole Design C2	EA	1
A8	Remove Pole Top to Communications Level and Install Metal Pole Design C3	EA	9
A9	Remove Pole Top to Communications Level and Install Metal Pole Design C4	EA	0
A10	Remove Pole Top to Communications Level and Install Metal Pole Design C5	EA	0
A11	Remove Pole Top to Communications Level and Install Metal Pole Design C6	EA	2
A12	Remove Bare 4-wire Conductor and Install Covered Conductor 397.5 AAC 4-wire	FT	3200
A13	Remove Bare 4-wire or 2-wire Conductor and Install Covered Conductor 1/0 ACSR 4-wire or 2-wire	FT	100
A14	Install Anchors (Screw Anchors preferred)	EA	21
A15	Transfer or Install Transformer from old Pole to New Pole + Installation of Equipment Arm	EA	7
A16	Transfer Secondary/Services from old Pole to New Pole	EA	60
A17	Install/Transfer Down/Span Guys per standard	EA	31
A18	Transfer TDPUD Fiber Line	EA	0
A19	Rebuild Secondary Riser	EA	3
A20	Transfer Secondary Riser	EA	2
A21	Rebuild Primary Riser 1Phase	EA	0
A22	Rebuild Primary Riser 3Phase	EA	0
A23	Transfer Primary Riser 1Phase	EA	0
A24	Transfer Primary Riser 3Phase	EA	1
A25	Tap Fuse Transfer/Equipment Arm Install 1Phase	EA	0
A26	Tap Fuse Transfer/Equipment Arm Install 3Phase	EA	0



**Wire and Tensioning Plans**

Tensions and sags are created with the use of TDPUD specified wedge deadends only. Use of any other style of deadend will void calculations shown.

Refer to provided sag charts for tensions.

"397 AAC" dictates that the line is sagged with normal chart.

"397 AAC Sag" dictates the line is sagged with the "sag" chart.

Plans will call out if the line is 1phase, and pole top construction still will align.

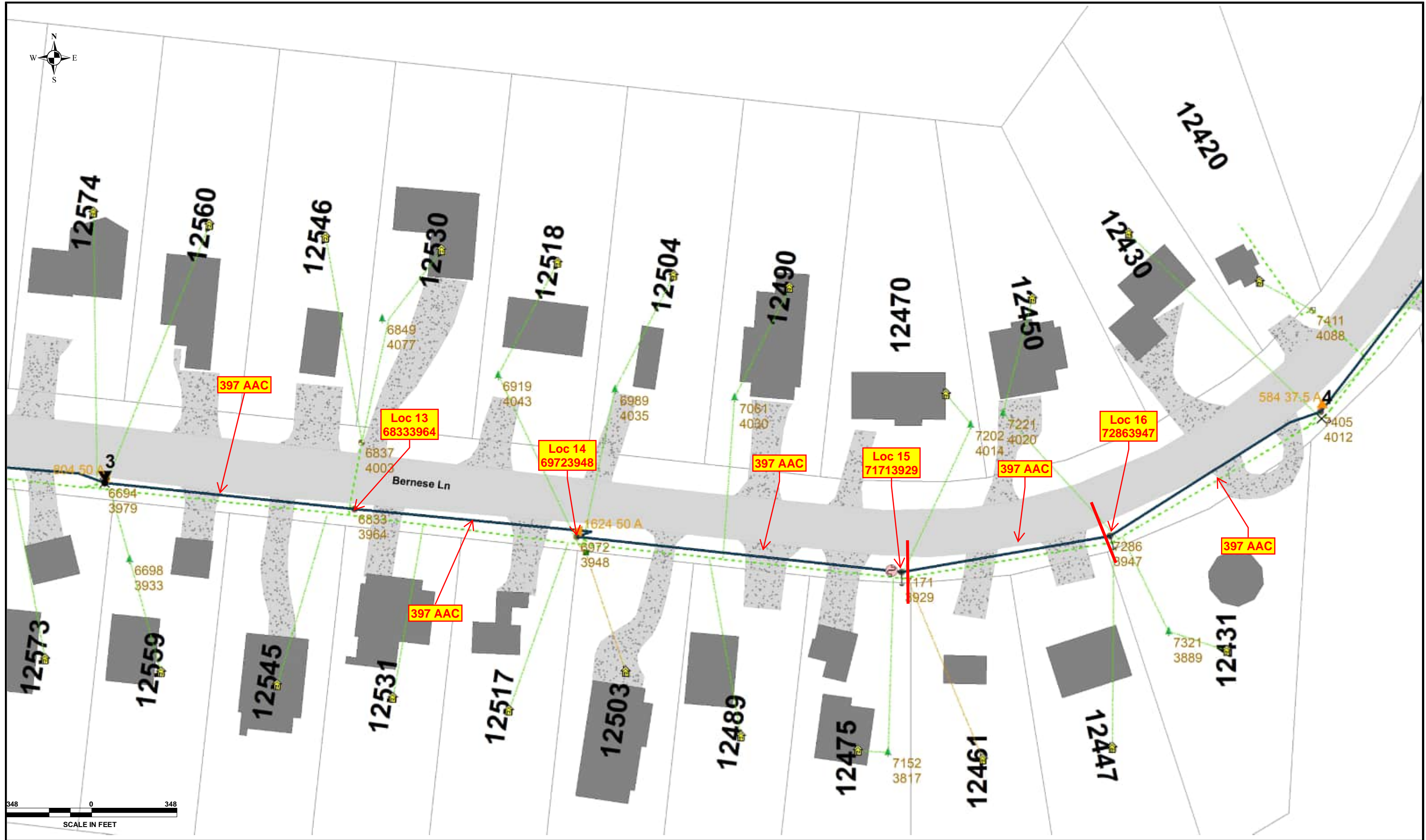
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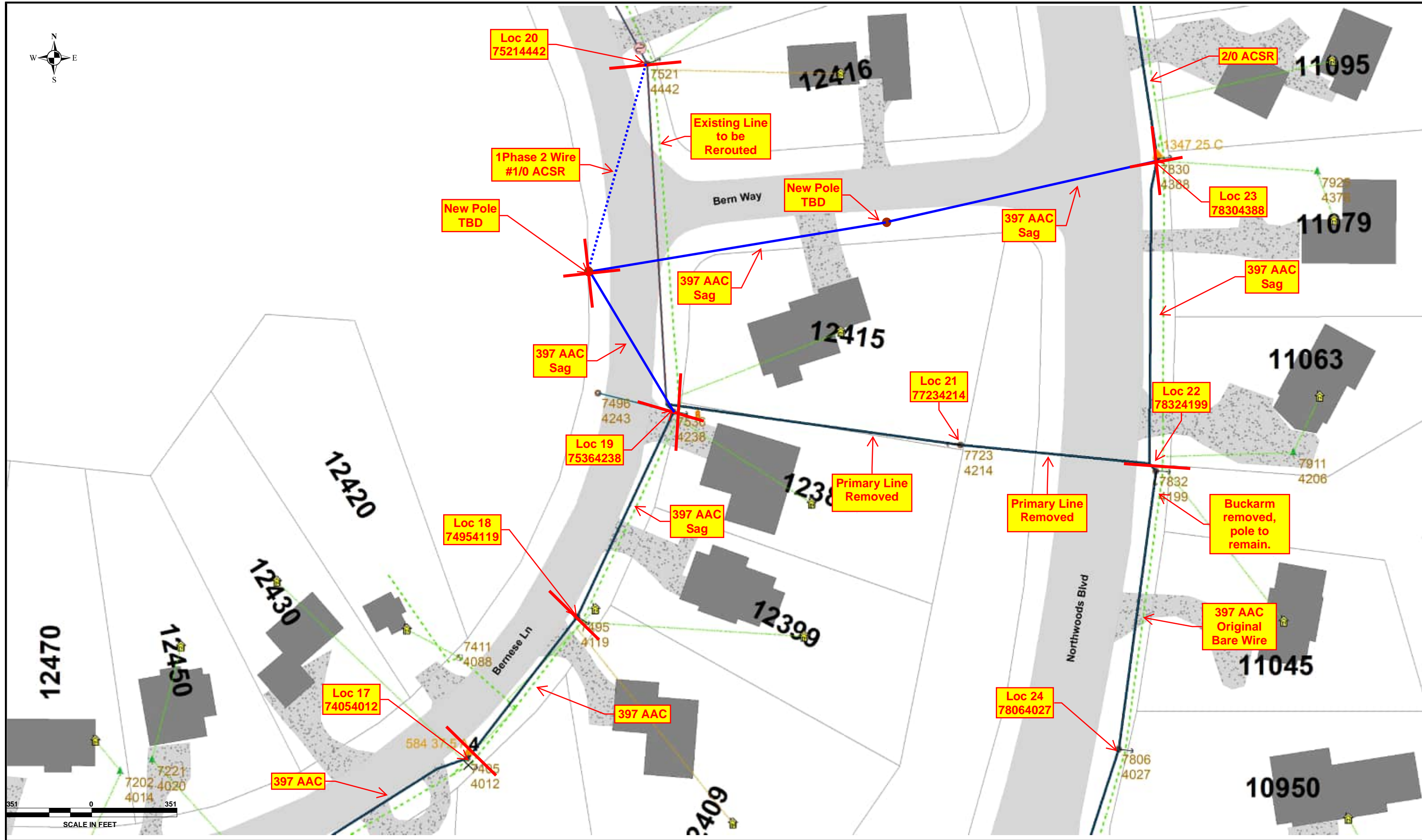
Work Order: 2664681

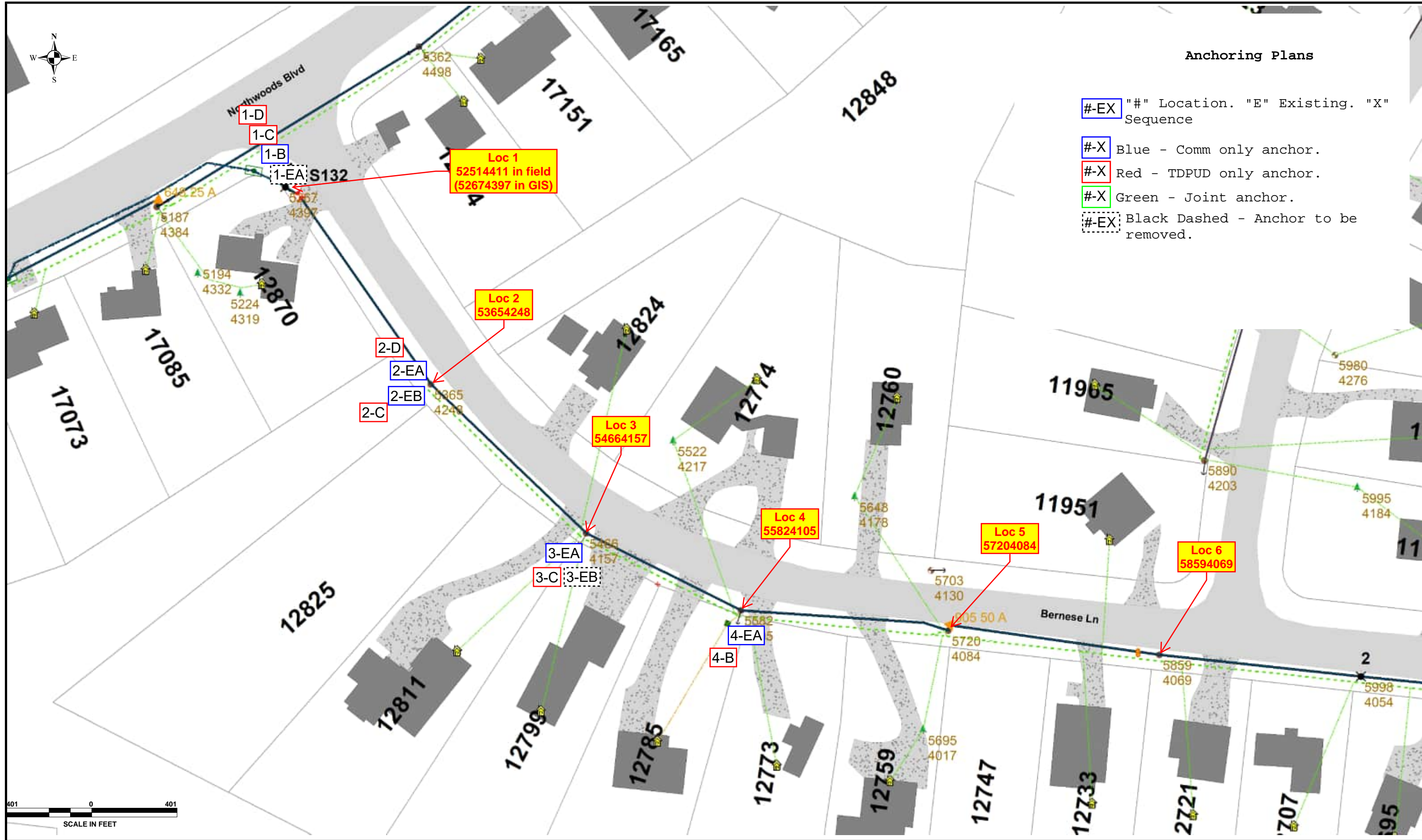


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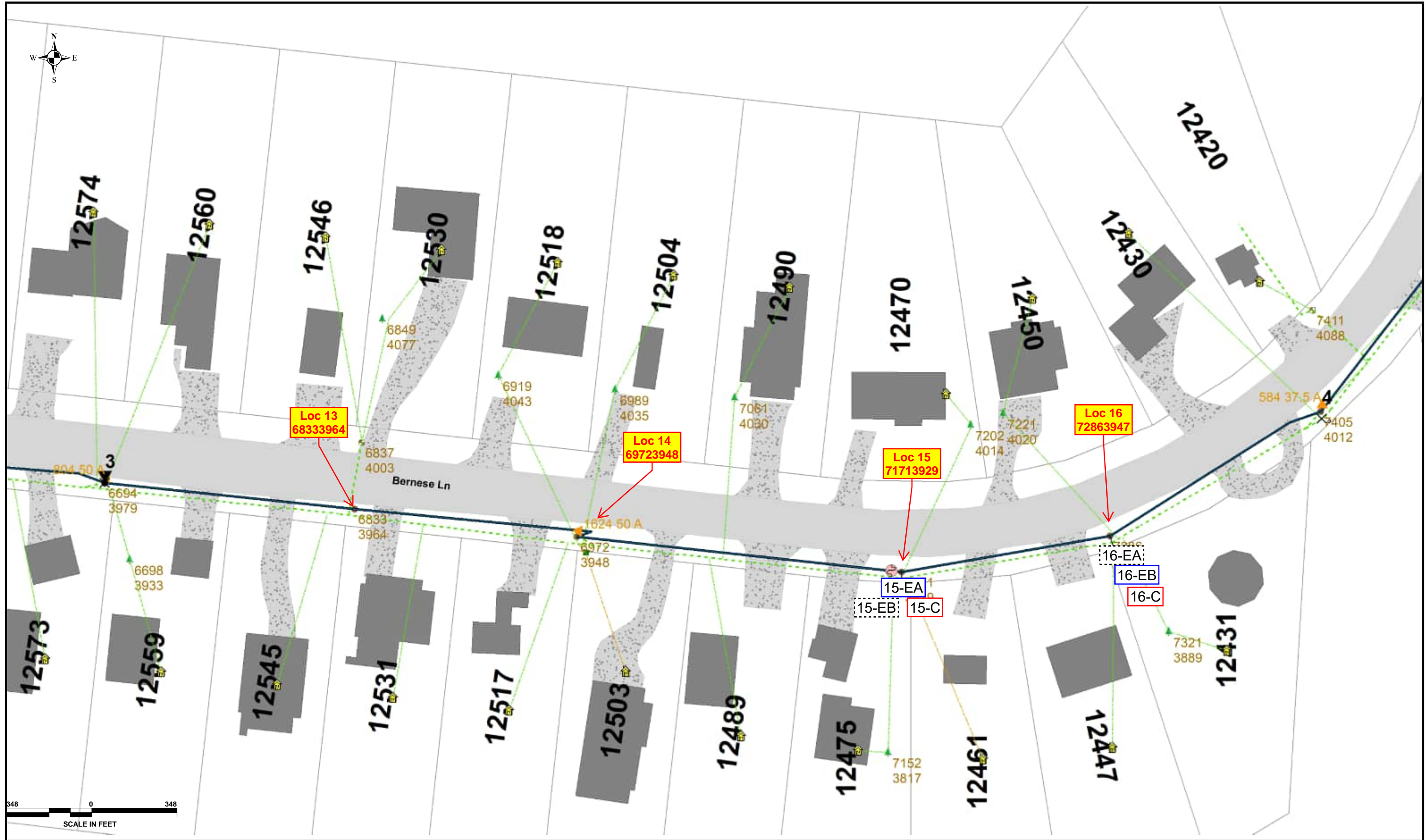
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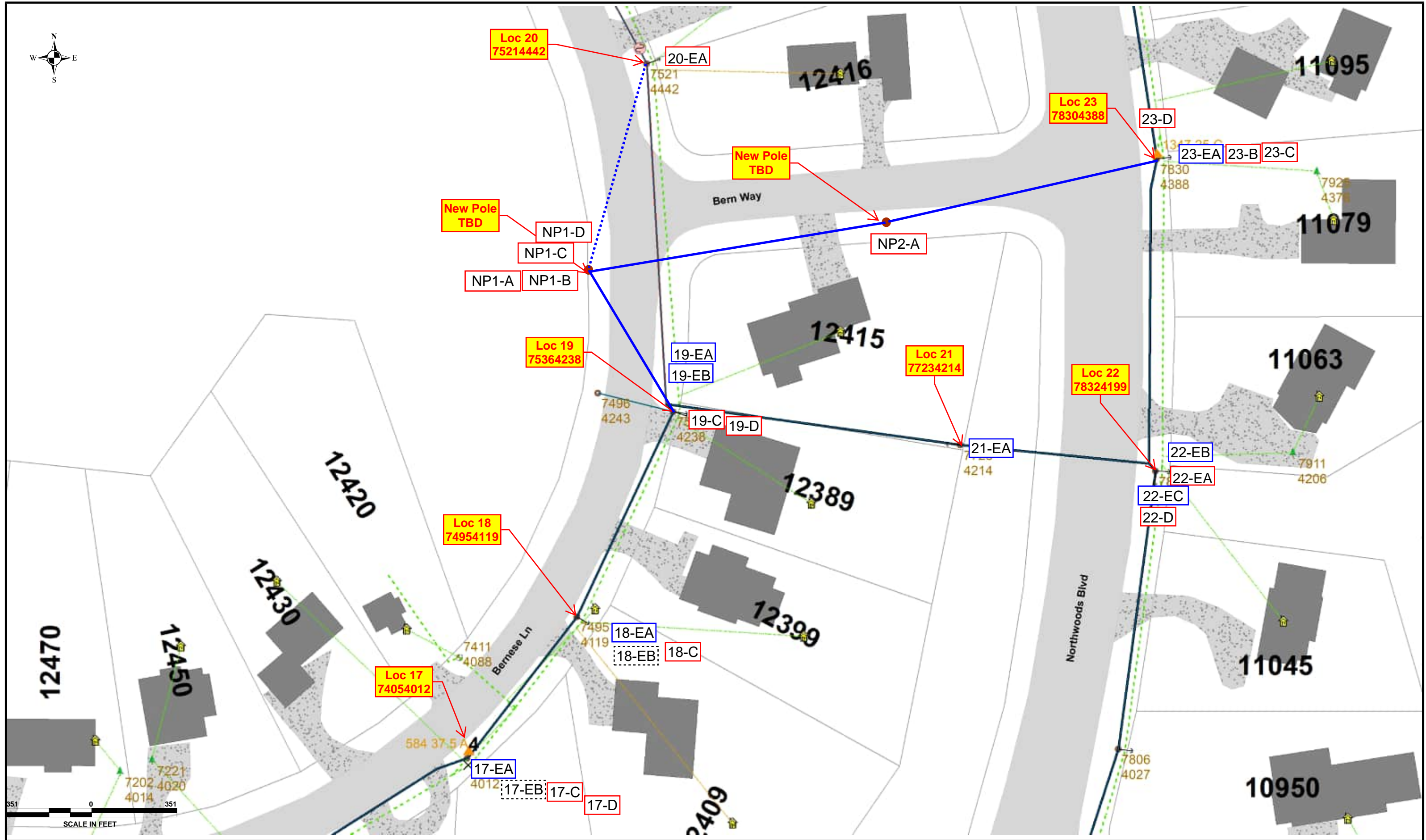
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Name:

# Work Order: 2664681



**Install:** Loc 1 5251 4411  
 C2 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 2  
 1-C, 25M, 22' lead, 3/8 DG to primary  
 3/8 DG 0.5' below primary  
 1-D, 25M, 25' lead, 1/2 DG to crossarm  
 8' equipment arm for primary riser  
 8' equipment arm for switches

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_

**Transfer/Existing:**  
 Primary Riser  
 1-EA - Comm to evaluate if anchor is usable for them.

**Removals:**  
 4 Wire bare primary to Loc 2

**Comm:**  
 1-B, 20M, 18' lead, 3/8 DG higher comm,  
 3/8 DG lower comm  
 Evaluate if existing anchor meets requirements, use if able.

Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 2 5365 4248  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 1 + Loc 3  
 2-C, 20M, 18' lead, split line, 3/8 DG to primary  
 2-D, 20M, 13' lead, backing sec, 3/8 DG to secondary

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_

**Transfer/Existing:**  
 Secondary to Loc 3

**Removals:**  
 4 Wire bare primary to Loc 1 + Loc 3  
 DG to primary from 2-EA, comm only  
 DG to primary from 2-EB, comm only

**Comm:**  
 3/8 DG to higher comm from 2-EA  
 3/8 DG to higher comm, 3/8 DG to lower comm from 2-EB

Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



**Install:** Loc 5 5720 4084  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 4 + Loc 6  
Cutout and arrestor  
4' equipment arm for transformer

**Transfer/Existing:**  
1 Phase transformer and fuse  
Secondary to Loc 4 + Loc 6  
2 Service drop

**Removals:**  
4 Wire bare primary to Loc 4 + Loc 6

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 6 4859 4069  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 5 + Loc 7

**Transfer/Existing:**  
Secondary to Loc 5 + Loc 7  
1 Service drop

**Removals:**  
4 Wire bare primary to Loc 5 + Loc 7

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 7 5998 4054  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 6 + Loc 8

**Transfer/Existing:**  
 Secondary to Loc 6 + Loc 8  
 1 Service drop

**Removals:**  
 4 Wire bare primary to Loc 6 + Loc 8

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 8 6137 4039  
 C1 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 7 + Loc 9  
 Cutout and arrestor  
 4' equipment arm for transformer

**Transfer/Existing:**  
 1 Phase transformer and fuse  
 Secondary to Loc 7 + Loc 9  
 2 Service drop

**Removals:**  
 4 Wire bare primary to Loc 7 + Loc 9

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 9 6276 4024  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 8 + Loc 10  
Secondary riser

**Transfer/Existing:**  
Secondary to Loc 8 + Loc 10  
2 Service drop

**Removals:**  
4 Wire bare primary to Loc 8 + Loc 10  
Riser molding

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 10 6416 4009  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 9 + Loc 11

**Transfer/Existing:**  
Secondary to Loc 9 + Loc 11  
4 Service drop

**Removals:**  
4 Wire bare primary to Loc 9 + Loc 11

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 11 6555 3994  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 10 + Loc 12

**Transfer/Existing:**  
Secondary to Loc 10 + Loc 12  
3 Service drop

**Removals:**  
4 Wire bare primary to Loc 10 + Loc 12

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_

**Install:** Loc 12 6694 3979  
C1 50' H2 Light Steel  
4 Wire 397.5 AAC covered conductor to Loc 11 + Loc 13  
Cutout and arrestor  
4' equipment arm for transformer

**Transfer/Existing:**  
1 Phase transformer and fuse  
Secondary to Loc 11 + Loc 13  
3 Service drop

**Removals:**  
4 Wire bare primary to Loc 11 + Loc 13

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
Foreperson: \_\_\_\_\_







**Install:** Loc 19 7536 4238  
 C3 50' H2 Light Steel  
 4 Wire 397.5 AAC covered conductor to Loc 18 + Loc NP1  
 19-C, 20M, 24' lead, split angle, 3/8DG primary, 3/8DG sec

**Transfer/Existing:**  
 Secondary to Loc 18 + Loc 20  
 2 Service drop

**Removals:**  
 4 Wire bare primary to Loc 18 + Loc 21  
 2 Wire bare primary to Loc 20 (upper arm)  
 19-EB, TDPUD only

**Comm:**  
 19-C, 20M, 18' lead, 3/8 DG mid comm, 3/8 DG lower  
 Remove 19-EA

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_

**Install:** Loc 20 7521 4442  
 A3 50' H2 Light Steel  
 2 Wire #1/0 ACSR covered conductor to Loc NP1

**Transfer/Existing:**  
 2 Wire bare primary to 1 pole northwest  
 Secondary to 1 pole northwest + Loc 19  
 1 Service drop  
 20-EA  
 3/8 DG to primary from 20-EA

**Removals:**  
 2 Wire bare primary to Loc 19

**Comm:**

- Pull / Transport / Dispose
- Cut / Kick
- Top: \_\_\_\_\_ Feet
- Same Hole
- After Hours
- Hand Dig
- Back Hoe Hours: \_\_\_\_\_
- Traffic Control Flaggers: \_\_\_\_\_
- Traffic Control Hours: \_\_\_\_\_

Notes: \_\_\_\_\_  
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Install Date: \_\_\_\_\_  
 Foreperson: \_\_\_\_\_



