

CALIFORNIA COASTAL COMMISSION

NORTH COAST DISTRICT OFFICE
1385 EIGHTH STREET, SUITE 130
ARCATA, CA 95521
VOICE (707) 826-8950
FAX (707) 826-8960



F8b

1-20-0559

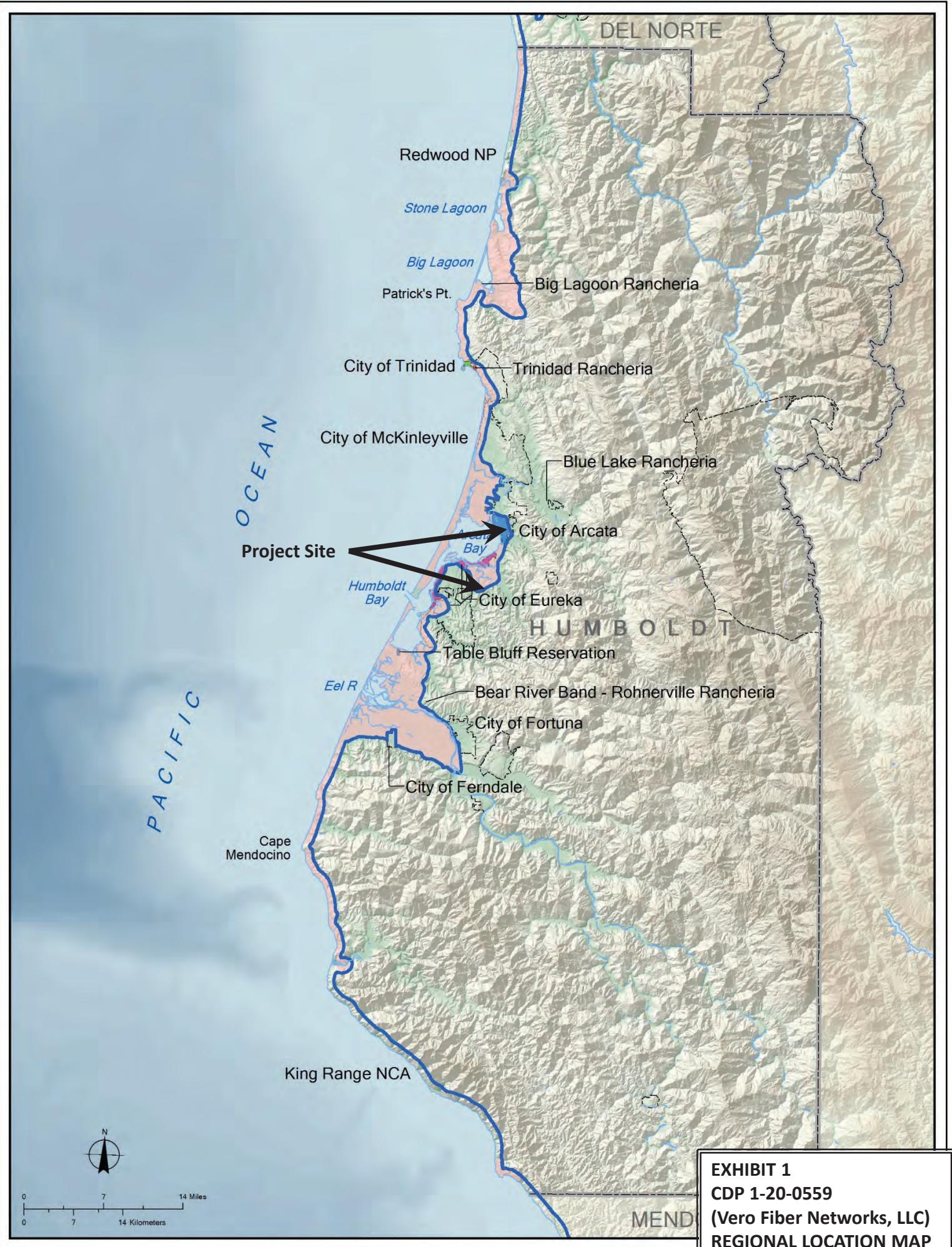
(VERO FIBER NETWORKS)

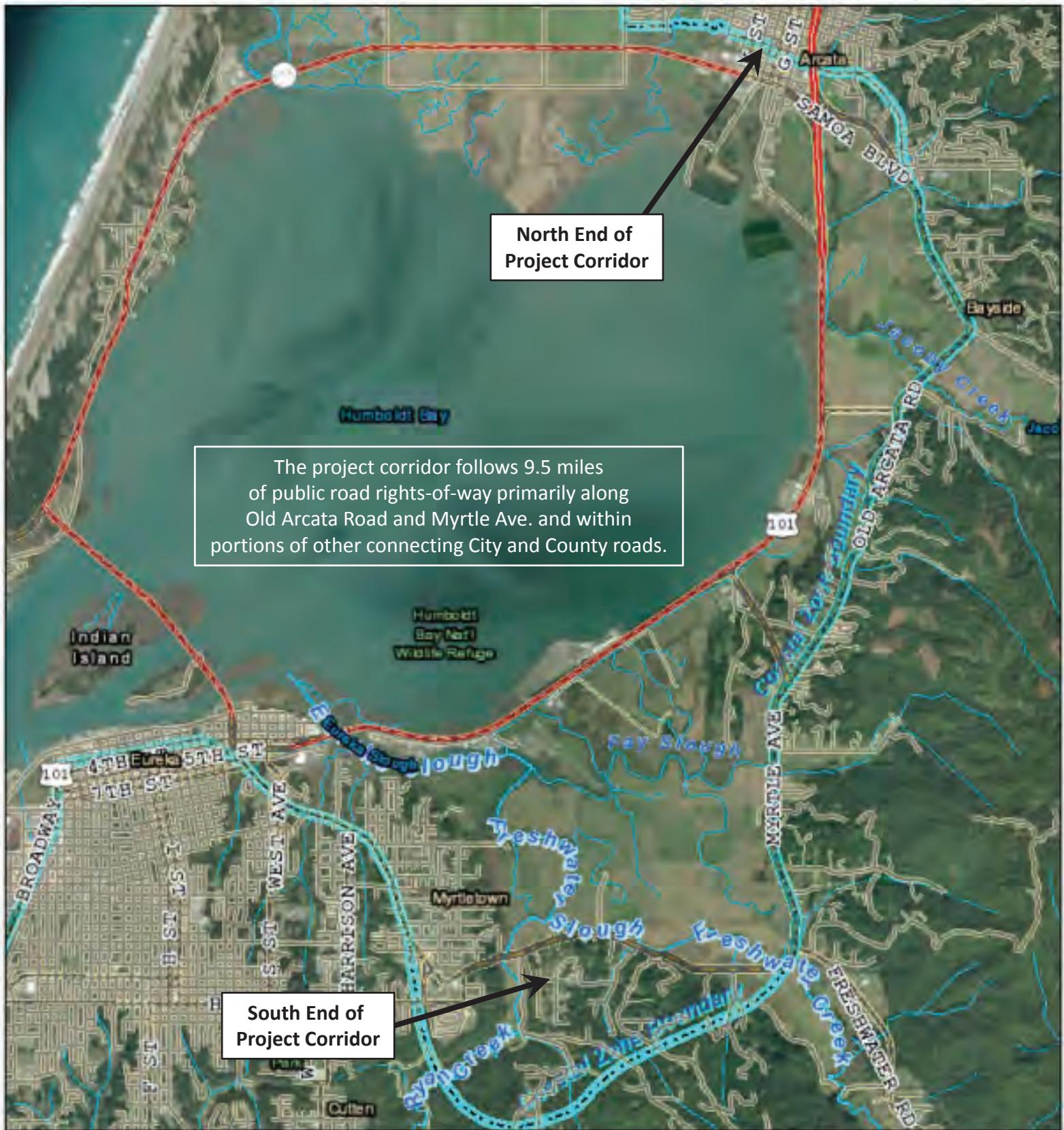
APRIL 16, 2021

EXHIBITS

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ArcGIS Web Map

Humboldt County Planning and Building Department

0 2,750 5,500 11,000 Feet
0 0.5 1 2 Miles
RF = 1:72,224 1 in = 6,019 ft
N
W E S

| | |
|---------------------|---------------------------|
| Highways and Roads | — Local Roads |
| Principal Arterials | — Private or Unclassified |
| Minor Arterials | — Major River or Stream |
| Major Collectors | — Major Collector |
| Minor Collectors | — Minor Collector |

| | |
|-------------------|-------------------------------|
| Blue Line Streams | — Subsurface |
| Perennial 1-3 | — Coastal Zone Boundary |
| Perennial >4 | <default layer do not remove> |
| Intermittent | |

Printed: March 23, 2021

Map Disclaimer:

While every effort has been made to assure the accuracy of this information, it should be understood that it does not have the force & effect of law, rule, or regulation. Should any differ-

Source: Esri, Maxar
DS, USDA, USGS, AeroGRID
County GIS, Esri, HERE, Gar
GIS user community

Web AppBuilder 2.0 for ArcGIS

EXHIBIT 2
CDP 1-20-0559
(Vero Fiber Networks, LLC)
VICINITY MAP

INTRODUCTION

Vero Fiber Networks, LLC (California Public Utilities Commission [CPUC] Certificate of Public Convenience and Necessity #U7344C) proposes to install conduit in approximately 9.5 miles of public right-of-way (ROW) between Arcata and Eureka in Humboldt County. The Arcata-Eureka Fiber Project (Project) extends from Arcata around Humboldt Bay to the east (**Figure 1**). The entire Project will be constructed underground using trenchless methods such as the horizontal direction drilling (HDD) construction method.

The Project consists of a single bore path, referenced as BH1. From an existing facility in Arcata, BH1 continues along the eastern side of Humboldt Bay and terminates at an existing substation just east of Eureka. The Project would be entirely bored, including under bridges and under water bodies.

1.1 Areas of Disturbance

The Project would include installation of approximately 9.5 linear miles of underground conduit and up to 76 handholes. Permanent disturbance includes the underground conduit and the handholes. Temporary disturbance resulting from construction (equipment staging/laydown) is expected to be limited to a 25-foot-wide corridor along the Project. Temporary and permanent disturbances per land jurisdiction are calculated in **Table 1**. Note that since the conduit is installed by trenchless methods, the actual disturbance area is only at bore and receive pits.

TABLE 1
TEMPORARY AND PERMANENT DISTURBANCE ACREAGES

| Jurisdiction | Distance (linear miles) | Temporary Disturbance (25-foot-wide Construction Corridor) | Permanent Disturbance (handholes)* |
|---------------------|------------------------------------|---|---|
| Public ROW | 9.5 | 28.8 acres | 912 square feet |

*Combined area of surface disturbance for the handholes (i.e., 3 feet by 4 feet per handhole)



DESCRIPTION OF THE UNDERTAKING

The Project comprises buried conduit and associated handholes. A description of these facilities and how they would be constructed is below.

2.1 Facilities and Construction

2.1.1 Buried Conduit

From Arcata around the eastern edge of Humboldt Bay, it is proposed that four 1.25-inch high-density polyethylene conduits would be placed within one bore to a depth of at least 4 feet.

Both conduits would be constructed using the HDD construction method. HDD is a steerable, trenchless method of installing underground conduits along a prescribed bore path by using a surface drilling rig (**Figure 2**). HDD causes minimal impacts; ground disturbance occurs only at each entry/exit point, or “bore pit.” HDD can avoid surface disruption by going beneath roadways, waterways, or environmentally sensitive areas.

The HDD process involves drilling a hole with guidance equipment and continuous drill bit position monitoring. Once drilling is complete, the conduit is pulled through the bore hole and spliced together through handhole locations. HDD uses a clay/water mixture that is pumped down the drill stem to lubricate the drill head and drill pipe, maintain the bore hole opening, and remove bore cuttings.

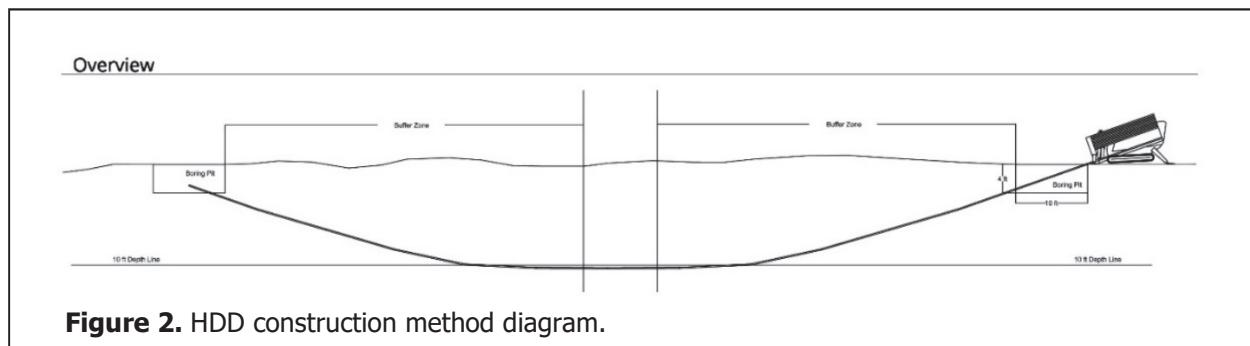


Figure 2. HDD construction method diagram.

2.1.2 Handholes

A total of 80 bore pits would be required (placed approximately every 800 feet per conduit/bore operation) to facilitate the bore operation and provide access to the conduit. Two handholes would be placed adjacent to each other in 38 of the 80 bore pits to provide access to the conduit. Handholes are made from a hybrid polymer concrete composite sized 2 by 4 by 1.5 feet and require an excavation about 1 foot greater than the handhole. Bore pits without handholes would be excavated to a size of 2 by 3 by 4 feet.

2.1.3 Cable Placement

After installation, the first conduit is tested, and the cable is placed by either pulling cable using Kevlar tape or using compressed air to “blow” the cable through the conduit. In the future, additional cables may be installed within empty conduits installed as part of this Project. Each conduit would be accessed via handholes; the installation of additional cables would not require future new disturbance.

2.1.4 Construction Operations

Equipment required to construct the Project includes two directional bore rigs Vermeer 24/40 Tier 3 to Tier 4, two Kubota Mini Excavators Tier 3, an Ingersoll Rand 185 Air Compressor Tier 3 and Walk Behind Saw, two Ford 5-yard dump trucks, three F550 utility trucks equipped with tools, arrow boards, equipment trailers, reel trailers, a fusion welder, wackers, a vacuum trailer, and a vac truck. The directional bore would require two drill rigs, one vac trailer, one mini-excavator, one air compressor, one 5-yard dump truck, and three F550 1-ton trucks, all operating in unison. Conduit placement would require one mini-excavator, one concrete saw, one air compressor, two 5-yard dump trucks, and two F550 1-ton trucks. Work zones would be delineated by cones and/or barricades.

2.1.4.1 Dewatering

Dewatering would occur at some handhole locations. Where the ground is fine sand, the excavation pits would be dug through a steel shoring box; the water would only be contained and pumped from this small area. Once pumped out, water would be stored in two 7,000-gallon poly tanks at a construction vendor yard. The water would then be tested, a discharge permit would be obtained if necessary, and the water would be discharged into either a sanitary sewer or designated discharge area. There would also be a washout for the vacs and a recycler to separate out the mud, silt, and water. Dewatering would take 2-3 hours per handhole.

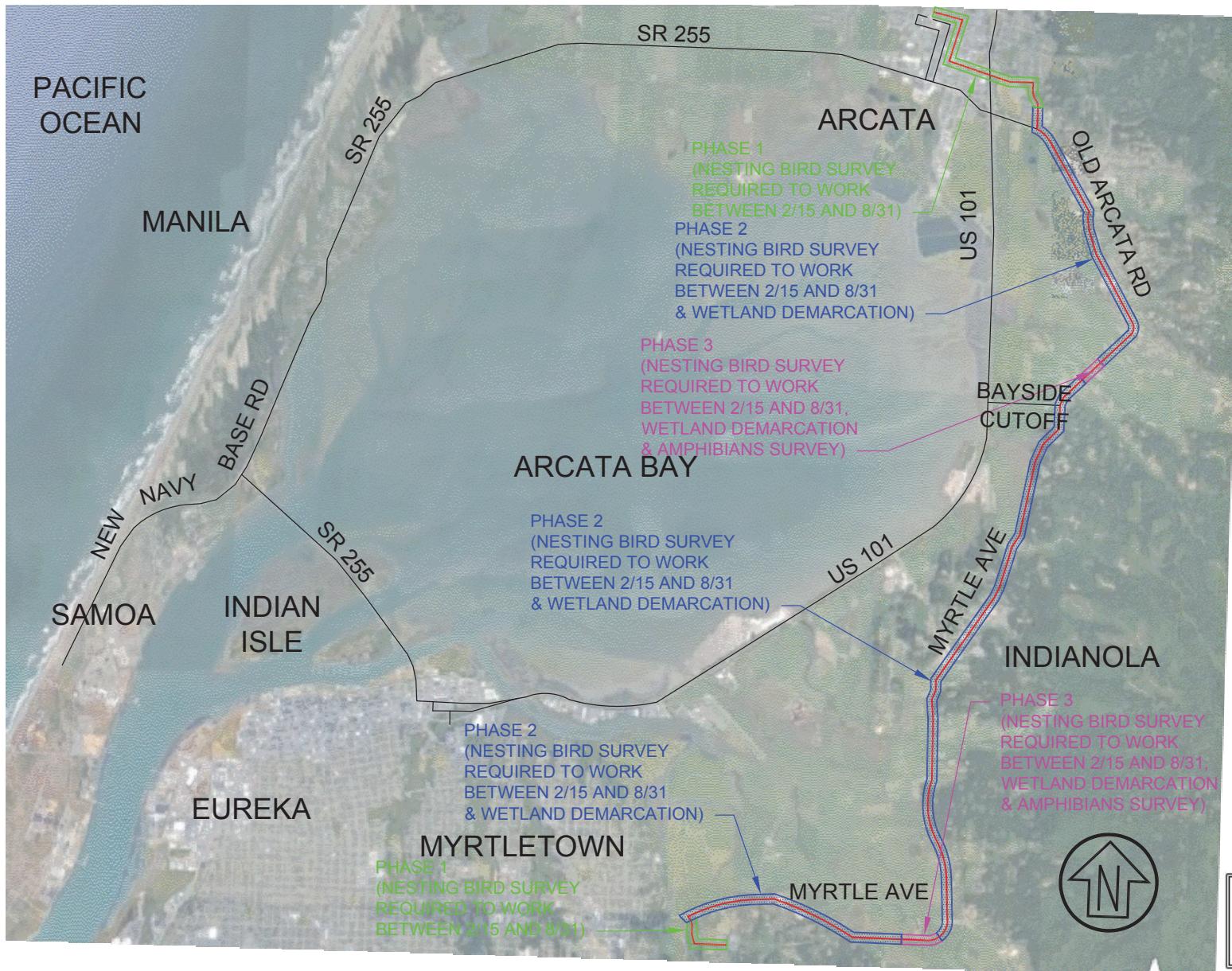
Equipment Storage and Staging

Staging and laydown for the Project construction would be along the ROW in the dirt area within the 25-foot-wide Construction Corridor. Equipment would be stored in the City of Arcata. Equipment would not be left within the ROW overnight.

Dry spoils would be placed directly into a dump truck and hauled to a construction vendor yard. When the stockpile reaches 100 yards, end dumps would transport the material to the nearest landfill. Wet spoils and vac mud would be run through a separator, the water would be reused in the bore machines, and the wet tailing would be dried in a pond lined with plastic sheeting before being hauled off.

2.1.5 Construction Schedule

The duration of construction for the Project would be approximately 6 months (400 to 600 feet per day); construction is planned to begin June 2021 and extend to December 2021. Construction operations would last 8 to 10 hours per day and would be performed 5 days per week. Some work may begin before sunrise or end after sunset.



| | | |
|---|-----------------------------|--------------------------------------|
| Prepared Under the Direction of: | Rev - Job No. 1910140 03 | Date: 01/13/21 Scale: 1" = 3,000' |
| ARCATA/EUREKA FIBER PROJECT EXHIBIT CONSTRUCTION PHASING PLAN HUMBOLDT COUNTY, CALIFORNIA | | |

ST 2

CSW/Stuber-Strook Engineering Group, Inc.
Civil & Structural Engineers | Surveyors | Mapping | Environmental Planning
Land & Resource Management
45 Lodi Lane | Novato, CA 94949
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Fax: 415.883.9855
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<http://www.cswe.com>

EXHIBIT 4
CDP 1-20-0559
(Vero Fiber Networks, LLC)
PROJECT PHASING PLAN



ARCATA/EUREKA FIBER PROJECT - PHASE I

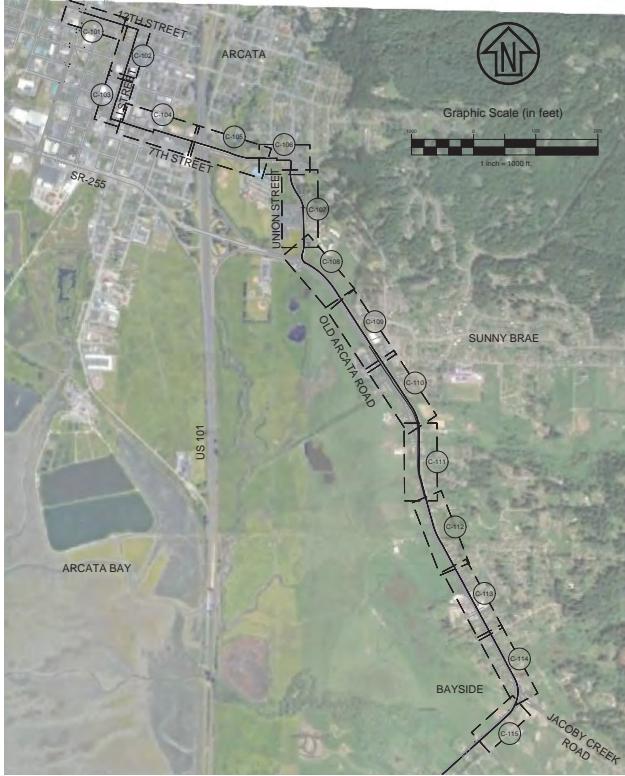
STA: 1+00 TO STA: 163+66.31

CITY OF ARCATA

AUGUST 2020

EXHIBIT 5
CDP 1-20-0559
(Vero Fiber Networks, LLC)
PROJECT PLANS
 (page 1 of 51)

| CONTACT LIST: | | | OVERALL LOCATION MAP | LOCATION MAP | SHEET INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| BOULDER, COLORADO 80306 | EMAIL: nmcginn@veronetworks.com | LIGHTWAVE CONSTRUCTION (CONSTRUCTION CONTRACTOR) | | | <table border="1"> <thead> <tr> <th>GENERAL</th> <th>COVERSHEET</th> </tr> </thead> <tbody> <tr> <td>G-001</td> <td>SHEET KEY MAP</td> </tr> <tr> <td>G-002</td> <td>NOTES, LEGENDS AND QUANTITIES</td> </tr> <tr> <td>G-003</td> <td>CIVIL IMPROVEMENTS</td> </tr> <tr> <td>C-101</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 1+00 TO STA: 11+00</td> </tr> <tr> <td>C-102</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 11+00 TO STA: 21+00</td> </tr> <tr> <td>C-103</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 21+00 TO STA: 30+00</td> </tr> <tr> <td>C-104</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 30+00 TO STA: 42+00</td> </tr> <tr> <td>C-105</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 42+00 TO STA: 54+00</td> </tr> <tr> <td>C-106</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 54+00 TO STA: 60+00</td> </tr> <tr> <td>C-107</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 60+00 TO STA: 72+00</td> </tr> <tr> <td>C-108</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 72+00 TO STA: 84+00</td> </tr> <tr> <td>C-109</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 84+00 TO STA: 96+00</td> </tr> <tr> <td>C-110</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 96+00 TO STA: 108+00</td> </tr> <tr> <td>C-111</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 108+00 TO STA: 120+00</td> </tr> <tr> <td>C-112</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 120+00 TO STA: 132+00</td> </tr> <tr> <td>C-113</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 132+00 TO STA: 144+00</td> </tr> <tr> <td>C-114</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 144+00 TO STA: 156+00</td> </tr> <tr> <td>C-115</td> <td>CONDUIT LAYOUT PLAN & PROFILE - STA: 156+00 TO STA: 163+66.31</td> </tr> <tr> <td>C-501</td> <td>CONSTRUCTION DETAILS</td> </tr> <tr> <td>C-701</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-702</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-703</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-704</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-705</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-706</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-707</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-708</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-709</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-710</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-711</td> <td>TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-712</td> <td>TRAFFIC CONTROL PLANS</td> </tr> </tbody> </table> | GENERAL | COVERSHEET | G-001 | SHEET KEY MAP | G-002 | NOTES, LEGENDS AND QUANTITIES | G-003 | CIVIL IMPROVEMENTS | C-101 | CONDUIT LAYOUT PLAN & PROFILE - STA: 1+00 TO STA: 11+00 | C-102 | CONDUIT LAYOUT PLAN & PROFILE - STA: 11+00 TO STA: 21+00 | C-103 | CONDUIT LAYOUT PLAN & PROFILE - STA: 21+00 TO STA: 30+00 | C-104 | CONDUIT LAYOUT PLAN & PROFILE - STA: 30+00 TO STA: 42+00 | C-105 | CONDUIT LAYOUT PLAN & PROFILE - STA: 42+00 TO STA: 54+00 | C-106 | CONDUIT LAYOUT PLAN & PROFILE - STA: 54+00 TO STA: 60+00 | C-107 | CONDUIT LAYOUT PLAN & PROFILE - STA: 60+00 TO STA: 72+00 | C-108 | CONDUIT LAYOUT PLAN & PROFILE - STA: 72+00 TO STA: 84+00 | C-109 | CONDUIT LAYOUT PLAN & PROFILE - STA: 84+00 TO STA: 96+00 | C-110 | CONDUIT LAYOUT PLAN & PROFILE - STA: 96+00 TO STA: 108+00 | C-111 | CONDUIT LAYOUT PLAN & PROFILE - STA: 108+00 TO STA: 120+00 | C-112 | CONDUIT LAYOUT PLAN & PROFILE - STA: 120+00 TO STA: 132+00 | C-113 | CONDUIT LAYOUT PLAN & PROFILE - STA: 132+00 TO STA: 144+00 | C-114 | CONDUIT LAYOUT PLAN & PROFILE - STA: 144+00 TO STA: 156+00 | C-115 | CONDUIT LAYOUT PLAN & PROFILE - STA: 156+00 TO STA: 163+66.31 | C-501 | CONSTRUCTION DETAILS | C-701 | TRAFFIC CONTROL PLANS | C-702 | TRAFFIC CONTROL PLANS | C-703 | TRAFFIC CONTROL PLANS | C-704 | TRAFFIC CONTROL PLANS | C-705 | TRAFFIC CONTROL PLANS | C-706 | TRAFFIC CONTROL PLANS | C-707 | TRAFFIC CONTROL PLANS | C-708 | TRAFFIC CONTROL PLANS | C-709 | TRAFFIC CONTROL PLANS | C-710 | TRAFFIC CONTROL PLANS | C-711 | TRAFFIC CONTROL PLANS | C-712 | TRAFFIC CONTROL PLANS |
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| G-001 | SHEET KEY MAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-002 | NOTES, LEGENDS AND QUANTITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-003 | CIVIL IMPROVEMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-101 | CONDUIT LAYOUT PLAN & PROFILE - STA: 1+00 TO STA: 11+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-102 | CONDUIT LAYOUT PLAN & PROFILE - STA: 11+00 TO STA: 21+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-103 | CONDUIT LAYOUT PLAN & PROFILE - STA: 21+00 TO STA: 30+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-104 | CONDUIT LAYOUT PLAN & PROFILE - STA: 30+00 TO STA: 42+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-105 | CONDUIT LAYOUT PLAN & PROFILE - STA: 42+00 TO STA: 54+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-106 | CONDUIT LAYOUT PLAN & PROFILE - STA: 54+00 TO STA: 60+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-107 | CONDUIT LAYOUT PLAN & PROFILE - STA: 60+00 TO STA: 72+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-108 | CONDUIT LAYOUT PLAN & PROFILE - STA: 72+00 TO STA: 84+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-109 | CONDUIT LAYOUT PLAN & PROFILE - STA: 84+00 TO STA: 96+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-110 | CONDUIT LAYOUT PLAN & PROFILE - STA: 96+00 TO STA: 108+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-111 | CONDUIT LAYOUT PLAN & PROFILE - STA: 108+00 TO STA: 120+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C-113 | CONDUIT LAYOUT PLAN & PROFILE - STA: 132+00 TO STA: 144+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-114 | CONDUIT LAYOUT PLAN & PROFILE - STA: 144+00 TO STA: 156+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-115 | CONDUIT LAYOUT PLAN & PROFILE - STA: 156+00 TO STA: 163+66.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-501 | CONSTRUCTION DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-701 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-702 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-703 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-704 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C-706 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-707 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-708 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-709 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-710 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-711 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-712 | TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POLOCK PINES, CA 95726 | EMAIL: steppen@lightwaveconstruction.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (415) 883-9850 595-9564 883-9835 juliah@cswt2.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designed Drawn Checked | JAH FAV JAH | VERO Fiber Networks | CSW ST2 CSW/Stuber-Strack Engineering Group, Inc. Civil Engineering, Surveying, Geotechnical, Environmental, Construction Management, Land Planning, Construction Project Management 11 Lassen Court Santa Cruz, CA 95060 Phone: 831.423.1000 | <table border="1"> <thead> <tr> <th>City</th> <th>Arcata</th> <th>ARCATA/EUREKA FIBER PROJECT</th> </tr> </thead> <tbody> <tr> <td>County</td> <td>Humboldt</td> <td>COVERSHEET</td> </tr> <tr> <td>State</td> <td>California</td> <td>VERO FIBER NETWORKS</td> </tr> </tbody> </table> | City | Arcata | ARCATA/EUREKA FIBER PROJECT | County | Humboldt | COVERSHEET | State | California | VERO FIBER NETWORKS | Prepared Under the Direction of: Julia A. Harrison No. 78928 CIVIL STATE OF CALIFORNIA Sheet G-001 Scale: _____ Date: 09/23/20 Project Number: 1910140 Plan File: D-XXXX Page 1 of 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City | Arcata | ARCATA/EUREKA FIBER PROJECT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| County | Humboldt | COVERSHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State | California | VERO FIBER NETWORKS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



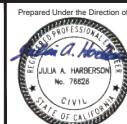
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| JAH | FAV | JAH | |

VERO
Fiber Networks

CSW|ST2

CSW/Stuber-Strack Engineering Group, Inc.
Land Development, Geotechnical, Structural & Civil Engineering,
Land Planning, Construction Management
11 Lassen Court
Redding, CA 96001
(530) 244-1800

ARCATA/EUREKA FIBER PROJECT
SHEET KEY MAP
VERO FIBER NETWORKS



Prepared Under the Direction of:
Julia A. Harrington
No. 78928
State: California
City: Arcata
County: Humboldt
State: California
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX

G-002

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CITY OF ARCATA STANDARD SPECIFICATIONS AND DETAILS.
- ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL AGENCIES INCLUDING, BUT NOT LIMITED TO, CAL/OSHA AND NODA, UNLESS OTHERWISE PROVIDED.
- EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. SOME EXISTING UTILITIES MAY NOT BE SHOWN ON THE PLANS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF DRAWINGS TO VERO FIBER NETWORKS WITHIN 7 DAYS OF SUBMITTING THE AS-BUILT DRAWINGS.
- APPROXIMATE LOCATIONS OF MANHOLES AND HANDHOLE'S ARE SHOWN ON THE PLANS. EXACT PLACEMENTS OF MANHOLES AND HANDHOLES SHALL BE DETERMINED IN THE FIELD AFTER ALL EXISTING UTILITIES IN THE AREA OF WORK HAVE BEEN LOCATED. COORDINATE FINAL LOCATIONS WITH VERO FIBER NETWORKS.

CONSTRUCTION NOTES

- ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE WORK IS STARTED. DEVICES NO LONGER REQUIRED SHALL BE REMOVED AS SOON AS POSSIBLE.
- PEDESTRIAN TRAFFIC MUST BE MAINTAINED AT ALL TIMES. PEDESTRIAN MAY BE RELOCATED ONTO PROVIDED SIDEWALKS OR OTHER APPROPRIATE AREAS.
- NO EQUIPMENT OR MATERIALS SHALL BE STORED OR PERMITTED TO STAND UNPROTECTED WHERE THIS COULD CAUSE AN OBSTRUCTION TO TRAFFIC OR PEDESTRIANS.
- NO EQUIPMENT OR MATERIALS SHALL BE STORED ON ROAD SURFACE DURING NON-WORKING PERIODS UNLESS IT IS ALLOWED BY LOCAL JURISDICTION IN WRITING.
- NO EQUIPMENT OR MATERIALS SHALL BE STORED ON SIDEWALKS UNLESS IT IS ALLOWED BY LOCAL JURISDICTION IN WRITING.
- EXCAVATION AND BORING SHALL BE STORED AWAY FROM THE PAVED ROADWAY WHENEVER POSSIBLE. ALL SPILLED MATERIAL IS TO BE REMOVED TO AVOID SLIPPERY CONDITIONS.
- EXISTING SIGNS, DELINEATORS, GUARDRAILS, MARKERS, TREES, SHRUBS, FENCES, WALK STEPS, ETC., SHALL NOT BE REMOVED UNLESS ABSOLUTELY NECESSARY. THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- COORDINATE WITH VERO FIBER TO VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION. CALL UNDERGROUND SERVICE ALERT (CALIFORNIA: 1-800-227-2600) AT LEAST 48 HRS PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL NOT TRENCH, BORE, OR DRILL WITHOUT PERMIT OR CONDUCT WORK IN CLOSE PROXIMITY TO EXISTING UTILITIES. CONTRACTOR MUST POTHOLE & EXPLORE EXISTING UTILITIES WHEN NEW CONSTRUCTION IS APPROXIMATELY 10 FEET FROM EXISTING UTILITIES.
- TRAFFIC SIGNAL DETECTOR LOOP CIRCUITS ARE NOT SHOWN. CONTRACTOR SHALL LOCATE ALL TRAFFIC SIGNAL DETECTOR LOOP CIRCUITS PRIOR TO ANY TRENCHING OR BORING. ALL TRAFFIC SIGNAL DETECTOR LOOP CIRCUITS SHALL BE MAINTAINED AND MONITORED BY CITY TRAFFIC DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN THESE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHREWDERY. ALL SHREWDERY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR SUPERVISED BY LIGHTHOUSE.
- CONTRACTOR IS RESPONSIBLE TO ARRANGE A PRE-CONSTRUCTION MEETING WITH THE CITY INSPECTOR TO REVIEW THE CONTRACTOR'S SAFETY PROGRAM AND CONSTRUCTION METHODS.
- BORING, PITS, EXCAVATION AND RESTORATION OF BORING PITS SHALL BE IN ACCORDANCE WITH THE CONTRACTOR'S SAFETY PROGRAM AND CONSTRUCTION METHODS APPROVED BY THE CITY INSPECTOR, ENGINEERS & VERO FIBER NETWORKS.
- IF PUBLIC UTILITY DUCTS ARE NOT REQUIRED OR AVAILABLE - EXISTING UTILITY LINES SHOWN IN PROFILE INDICATE APPROXIMATE UTILITY LOCATION ALONG THE DUCT. THE CONTRACTOR SHALL POTHOLE TO CONFIRM EACH DEPTH.
- CONTRACTOR SHALL RESTORE ALL PAVEMENT TO PRECONSTRUCTION CONDITIONS, PER CITY STANDARD DETAILS.

SAFETY

- THE CONTRACTOR IS RESPONSIBLE FOR JOB-SITE SAFETY AND SHALL BE RESPONSIBLE FOR ALL LIABILITY IMPOSED BY LAW FOR PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY ARISE OUT OF THE WORK PERFORMED UNDER THE ENCROACHMENT PERMIT, OR WHICH MAY ARISE OUT OF THE CONTRACTOR'S FAILURE TO MAINTAIN THE SAFETY STANDARDS AND OBSERVATIONS UNDER THIS PERMIT IN RESPECT TO MAINTENANCE OF THE ENCROACHMENT.
- ALL TRAFFIC CONTRACTOR SHALL CONFORM TO THE CURRENT CALIFORNIA DEPARTMENT OF TRANSPORTATION (CDOT) "TRAVELER'S GUIDE TO CALIFORNIA'S HIGHWAYS AND HIGHWAY MAINTENANCE WORK ZONE" MANUAL OF WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF HIGHWAY MAINTENANCE WORK.
- ALL EXCAVATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH. THE PERMITTEE MAY BE REQUIRED TO OBTAIN A PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF SAFETY AND HEALTH OR THE STATE OF INDUSTRIAL RELATIONS, STATE OF CALIFORNIA.
- CONTRACTOR SHALL MAINTAIN ALL SAFETY STANDARDS AND DEVICES FOR PEDESTRIAN AND VEHICULAR TRAFFIC SAFETY. UNSAFE CONDITIONS WILL BE CORRECTED BY CITY PERSONNEL (OR AGENTS THEREOF) AND THE PERMITTEE WILL BE BILLED FOR ALL EXPENSES INCURRED, OR COSTS SHALL BE RECOVERED FROM CASH DEPOSITS HELD FOR SUCH PURPOSES.

ADDITIONAL NOTES:

- ALL WETLANDS SHALL BE IDENTIFIED IN THE FIELD BY A BIOLOGIST PRIOR TO PERFORMING ANY ADJACENT EXCAVATION. INSTALL HIGH VISIBILITY CONSTRUCTION FENCING AROUND IDENTIFIED WETLANDS PRIOR TO COMMENCEMENT OF EXCAVATION. BURLEIGH CONSULTING ENGINEERS, INC. WILL PROVIDE THE BIOLOGIST AND WETLAND MANAGEMENT PRACTICES AS OUTLINED IN THE BIOLOGICAL ASSESSMENT.

SYMBOLS



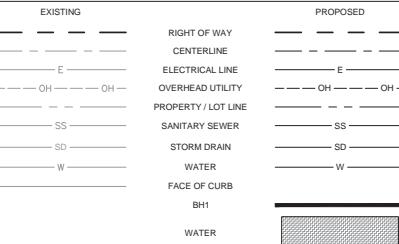
ABBREVIATIONS

| | | | |
|------|--------------------------------|------|--------------------------|
| CL | CENTERLINE / CONTROL LINE | PVC | POLYVINYL CHLORIDE PIPE |
| DI | DROP INLET | RCP | REINFORCED CONCRETE PIPE |
| DWY | DRIVEWAY | RW | RIGHT OF WAY |
| EG | EXISTING GRADE | SD | STORM DRAIN |
| EP | EDGE OF PAVEMENT | SDCO | STORM DRAIN CLEANOUT |
| EX | EXISTING | SDMH | STORM DRAIN MANHOLE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE | SF | SQUARE FEET |
| | | SS | SANITARY SEWER |
| HH | HANDHOLE | SSCO | SANITARY SEWER CLEANOUT |
| INV | INVERT | SSMH | SANITARY SEWER MANHOLE |
| LF | LINEAR FEET | SW | SIDEWALK |
| MH | MANHOLE | NTS | NOT TO SCALE |
| PRO | PROPOSED | VIF | VERIFY IN FIELD |

QUANTITIES

BH:
4 - 1.25" CONDUIT (SD 13.5) - 16863 LF

LINETYPES



| | Designed | Drawn | Checked |
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| | | | |
| | JAH | FAV | JAH |



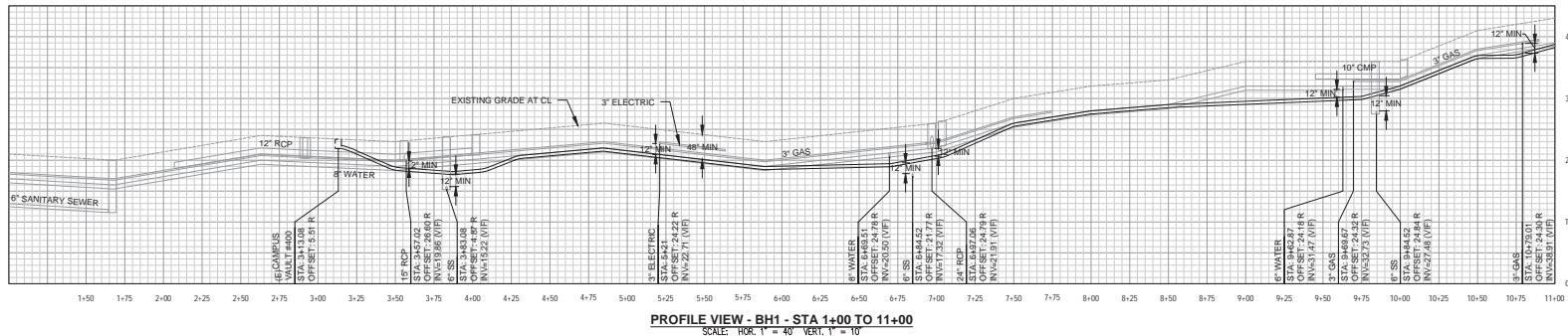
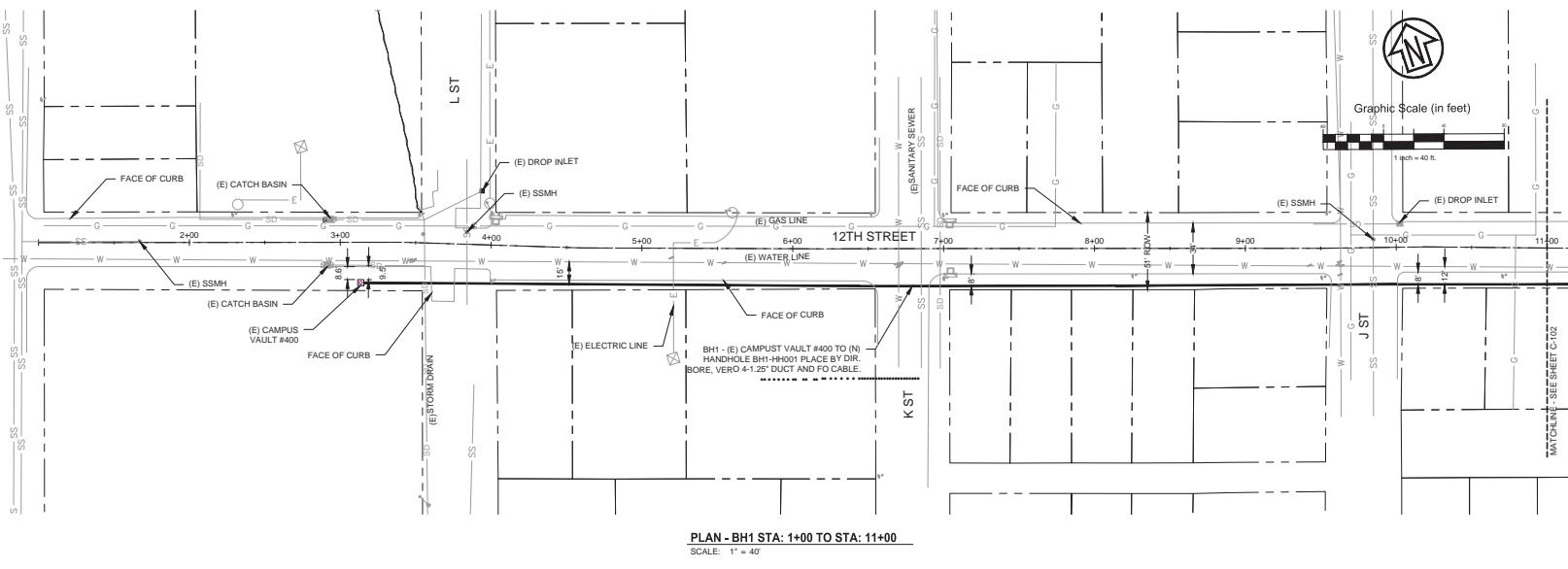
CSW | ST2
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering | Architecture | Surveying | Planning | Construction Management
Architectural Services • Land Surveying • Environmental Consulting
As-Planned/As-Built Surveys • Construction Documentation • Construction Management
Project Management • Construction Project Management

City: Arcata
County: Humboldt
State: California

ARCATA/EUREKA FIBER PROJECT
NOTES, LEGENDS AND QUANTITIES
VERO FIBER NETWORKS

Prepared Under the Direction of:

Julia A. Harbison
No. 78928
State of California
Civil
Project Number: 1910140
Plan File: D-XXXX
Sheet G-003



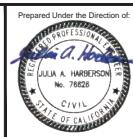
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VERO
Fiber Networks

CSW | ST2

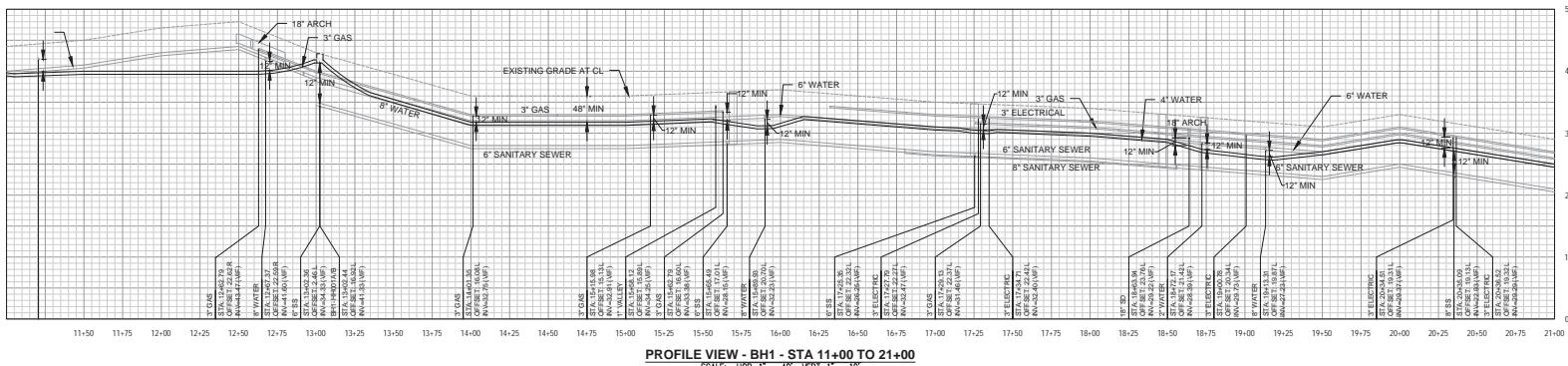
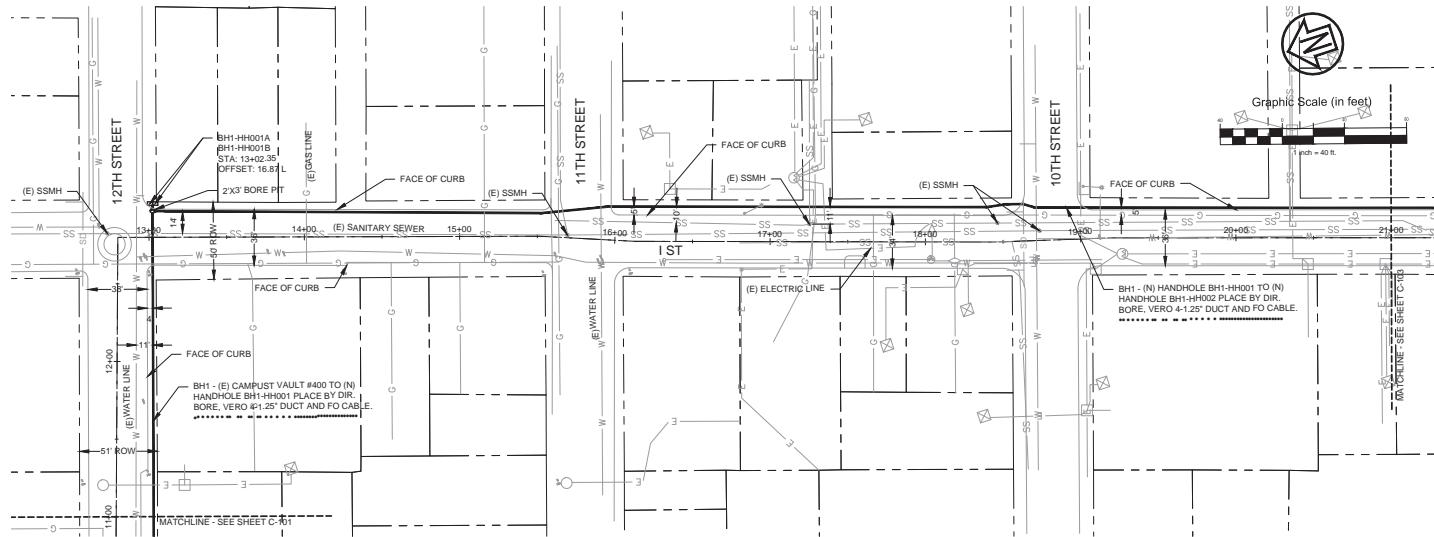
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Land Surveying, Geotechnical
and Planning, Construction Management,
Environmental, Water Resources
and Levee/Culvert
Consultants

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 1+00 TO STA: 11+00
VERO FIBER NETWORKS



C-101

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



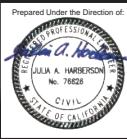
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| JAH | | | |
| FAV | | | |
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VERO
Fiber Networks

CSW | ST2

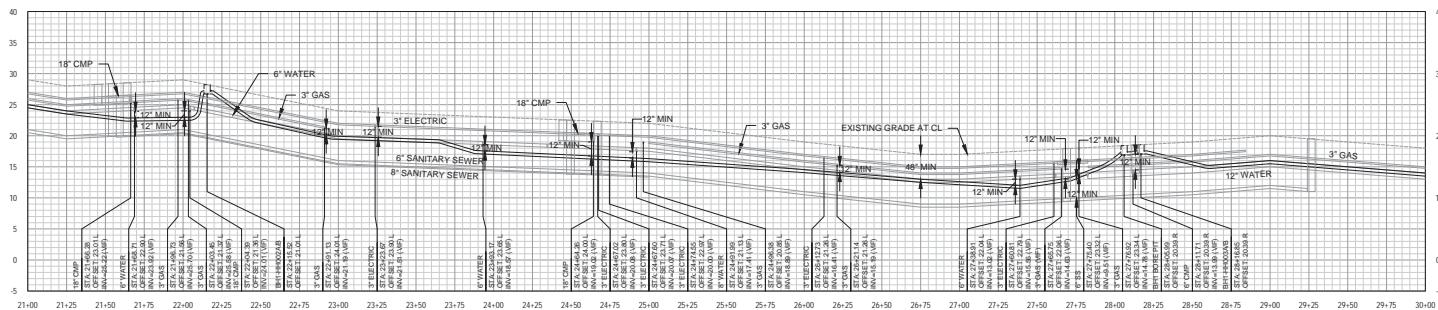
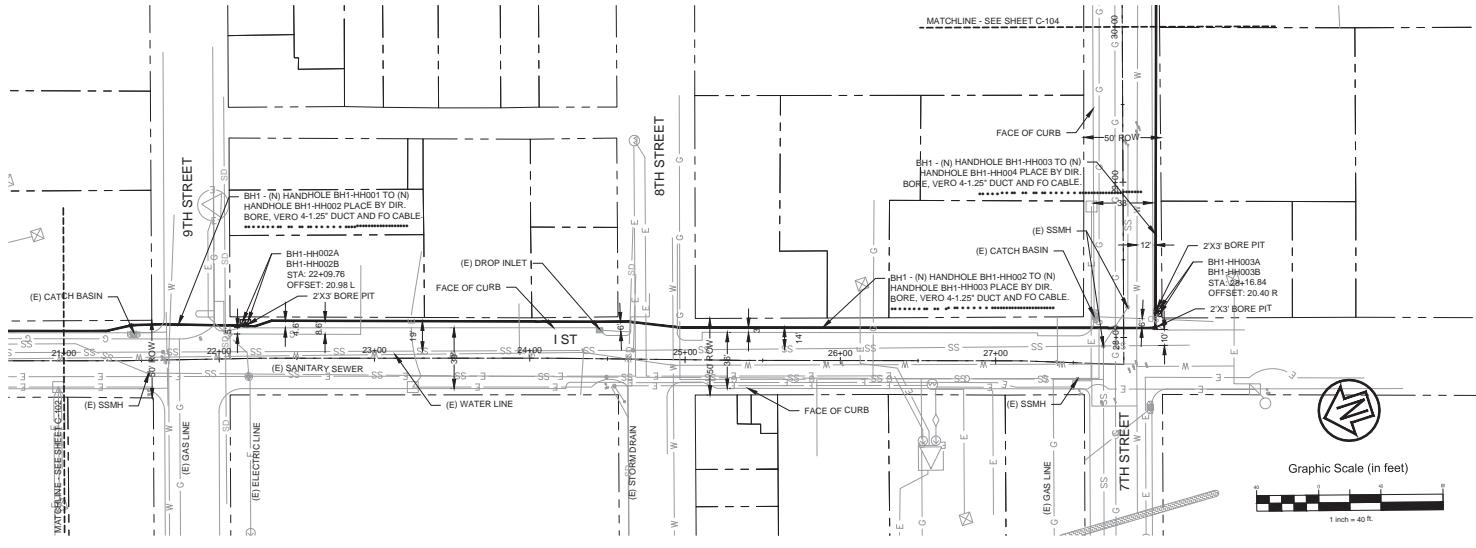
CSW/Stuber-Strack Engineering Group, Inc.
Civil, Structural, Geotechnical, Environmental
Land Planning, Construction Management,
Residential, Commercial, Industrial

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 11+00 TO STA: 21+00
VERO FIBER NETWORKS



C-102

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX



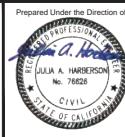
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

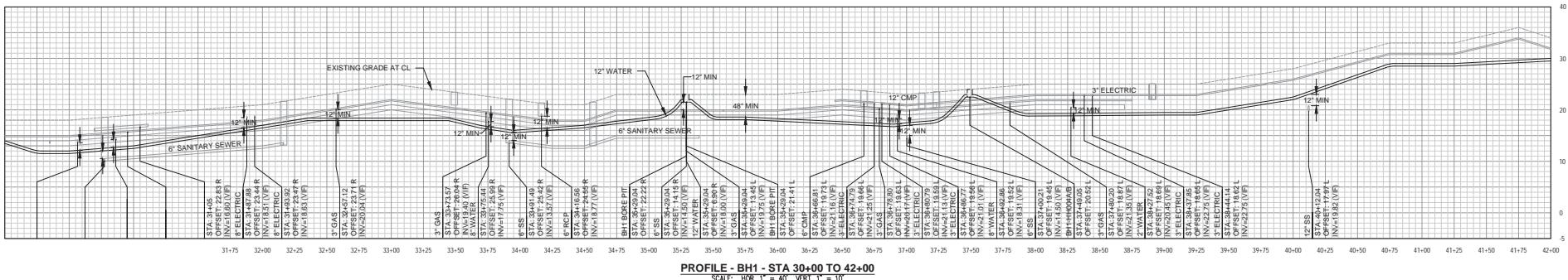
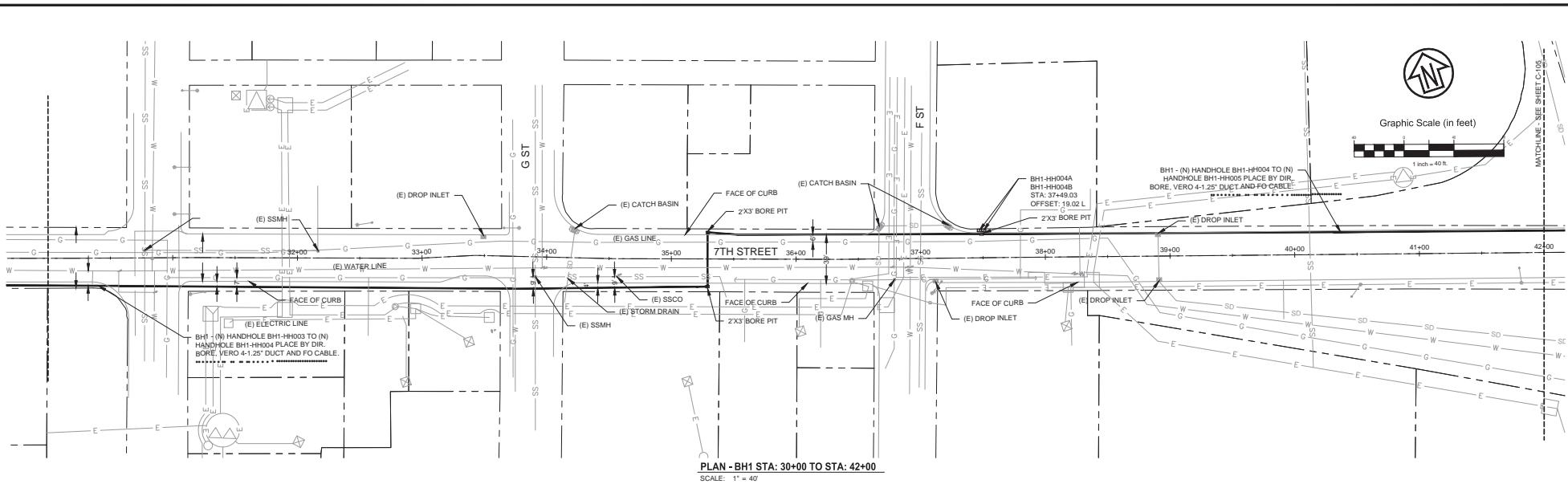
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental Consulting
Land Planning • Construction Management
Architectural • Geotechnical • Surveying
At Lowest Cost
Quality, Creativity
Innovation

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 21+00 TO STA: 30+00
VERO FIBER NETWORKS



C-103

Prepared Under the Direction of:
Julia A. Harrington No. 78928
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX

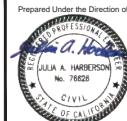


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|-----|----------|-------|---------|
| | | | |
| JAH | FAV | JAH | |

VERO
Fiber Networks

CSW | ST2
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental
and Land Planning, Construction Management,
and Project Management

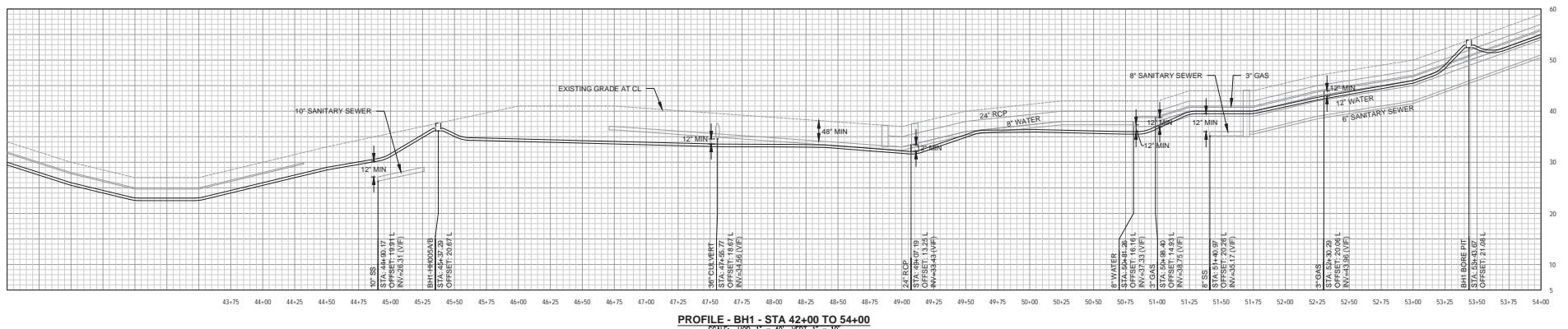
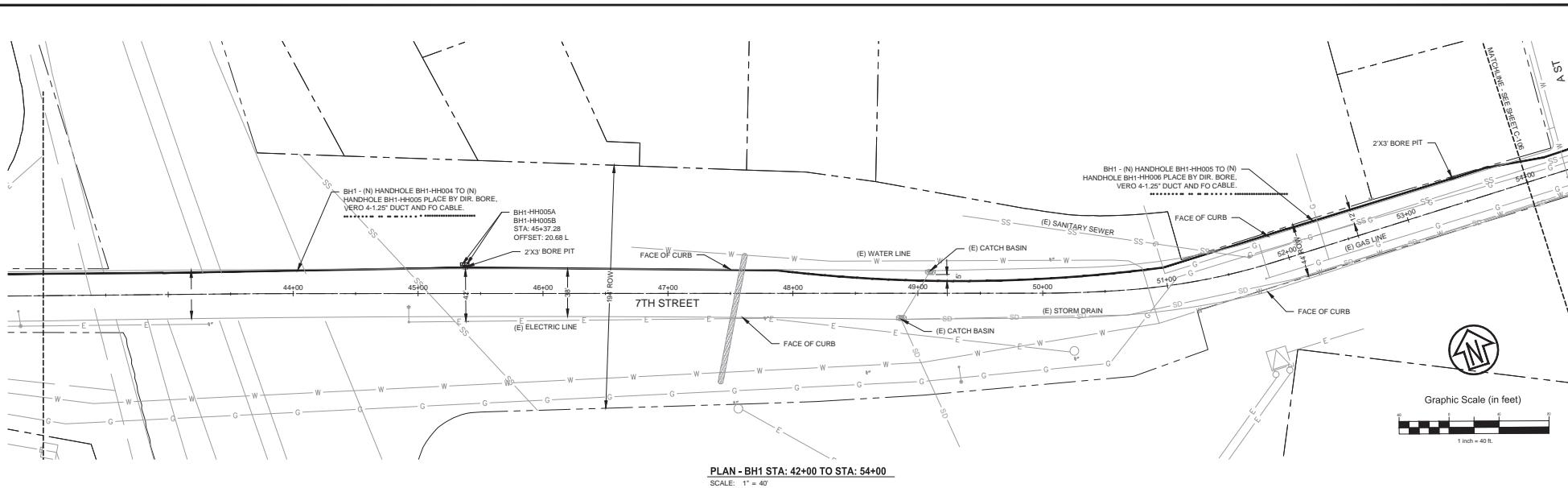
ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 30+00 TO STA: 42+00
VERO FIBER NETWORKS



C-104

Prepared Under the Direction of:
Julia A. Harrison
No. 78928
State of California
Board of Professional Engineers, Land Surveyors and Geologists

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



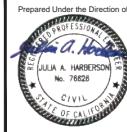
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| JAH | FAV | JAH | |

VERO
Fiber Networks

CSW | ST2

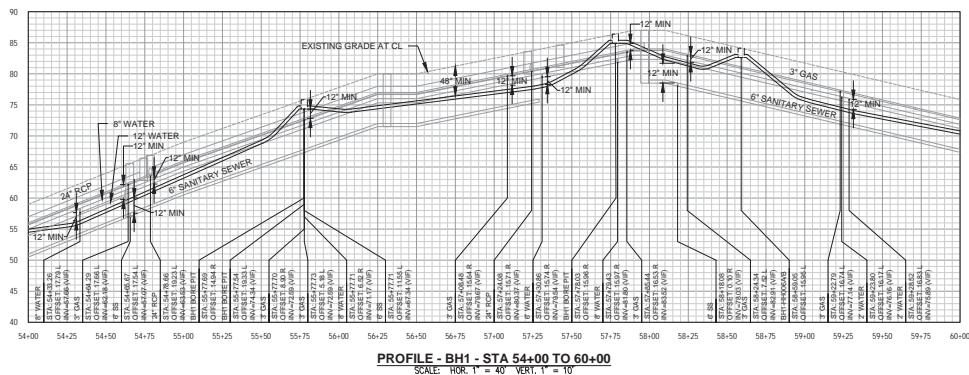
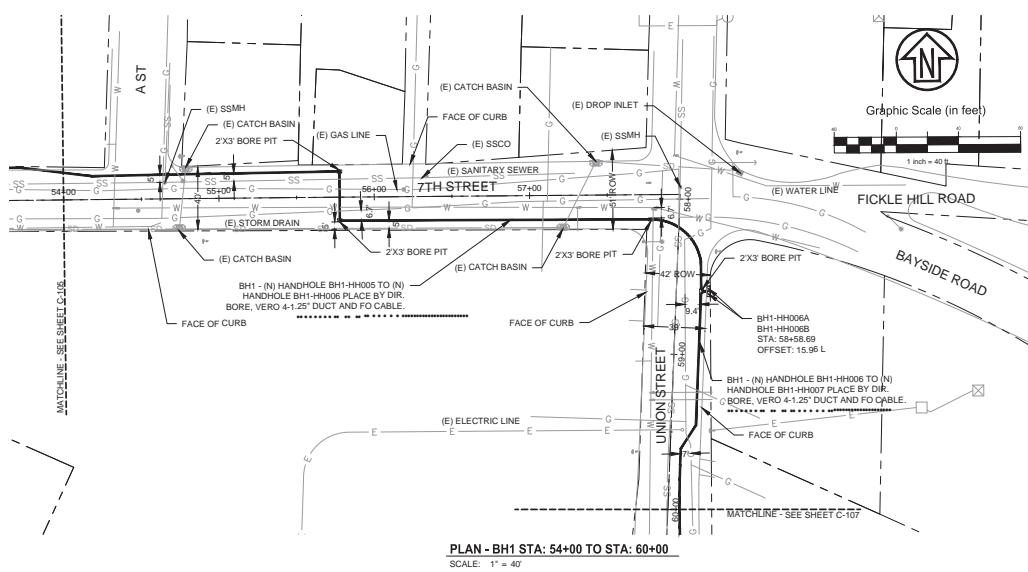
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Land Surveying, Environmental
Site Planning, Construction Management,
As-located Control
Tools, CRWMS

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 42+00 TO STA: 54+00
VERO FIBER NETWORKS



C-105

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



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| JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

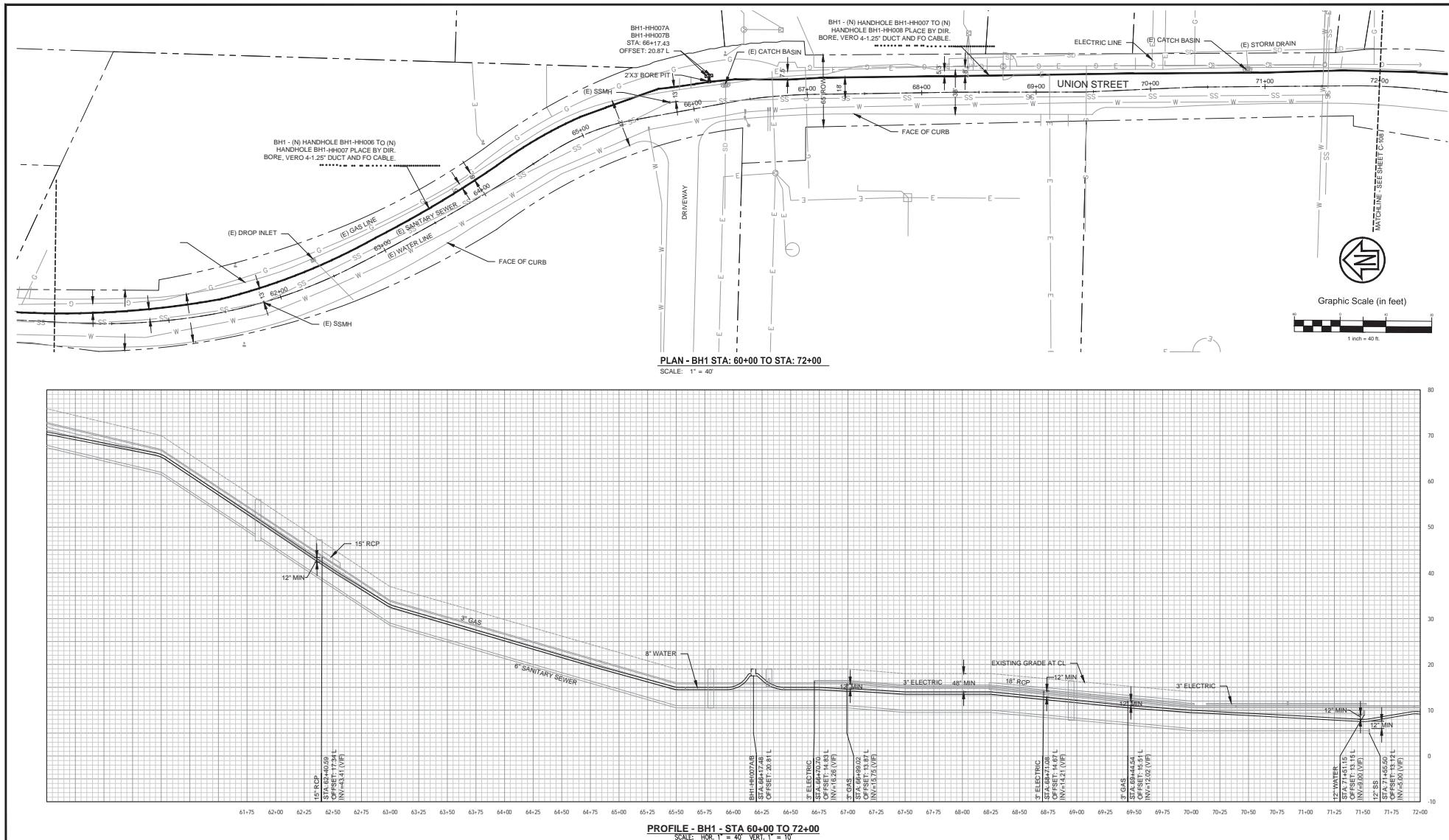
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
As-located Cont. Surveying
Photogrammetry

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 54+00 TO STA: 60+00
VERO FIBER NETWORKS



C-106

Prepared Under the Direction of:
Julia A. Harrison
 No. 78928
 STATE OF CALIFORNIA
 CIVIL
 Scale: 1" = 40'
 Date: 09/23/20
 Project Number: 1910140
 Plan File: D-XXXX



| Designed | Drawn | Checked |
|----------|-------|---------|
| JAH | FAV | JAH |

VERO
Fiber Networks

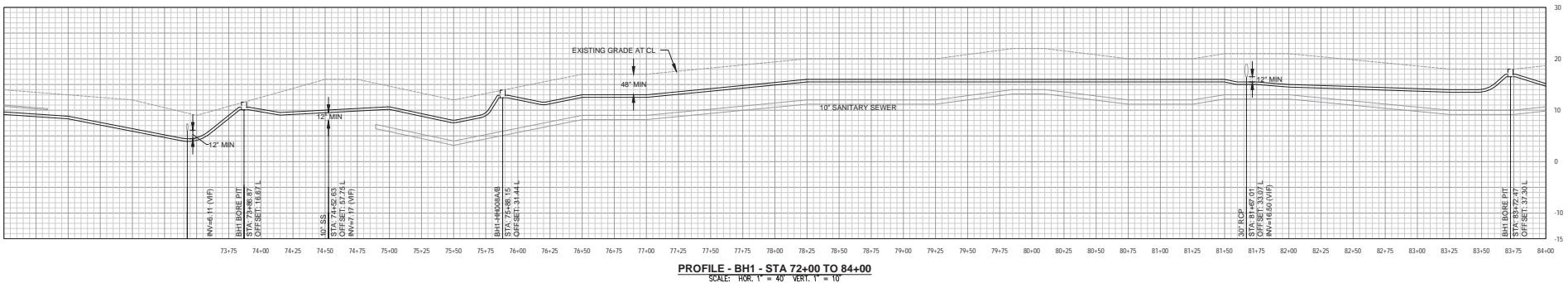
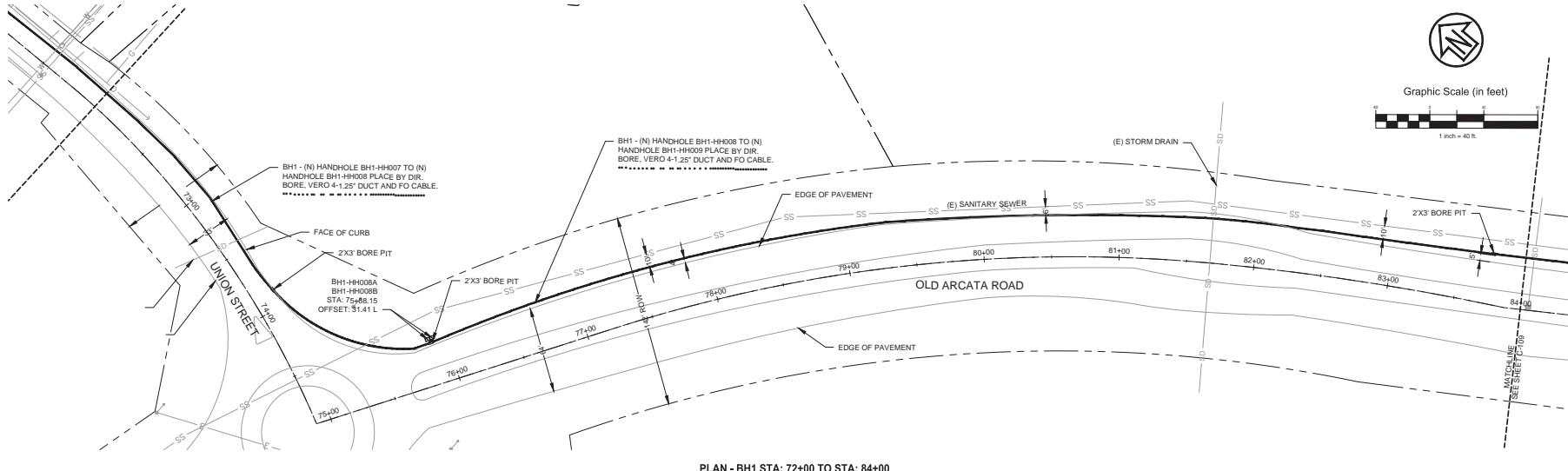
CSW|ST2

CSW/Stuber-Strack Engineering Group, Inc.
Land Development, Engineering Services, Environmental
Consulting, Construction Management,
Architectural, Civil, Structural, Electrical, Mechanical
Engineering Services
Arcata, California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 60+00 TO STA: 72+00
VERO FIBER NETWORKS

Prepared Under the Direction of:

Julia A. HARRISON
No. 78928
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Sheet C-107



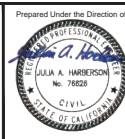
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

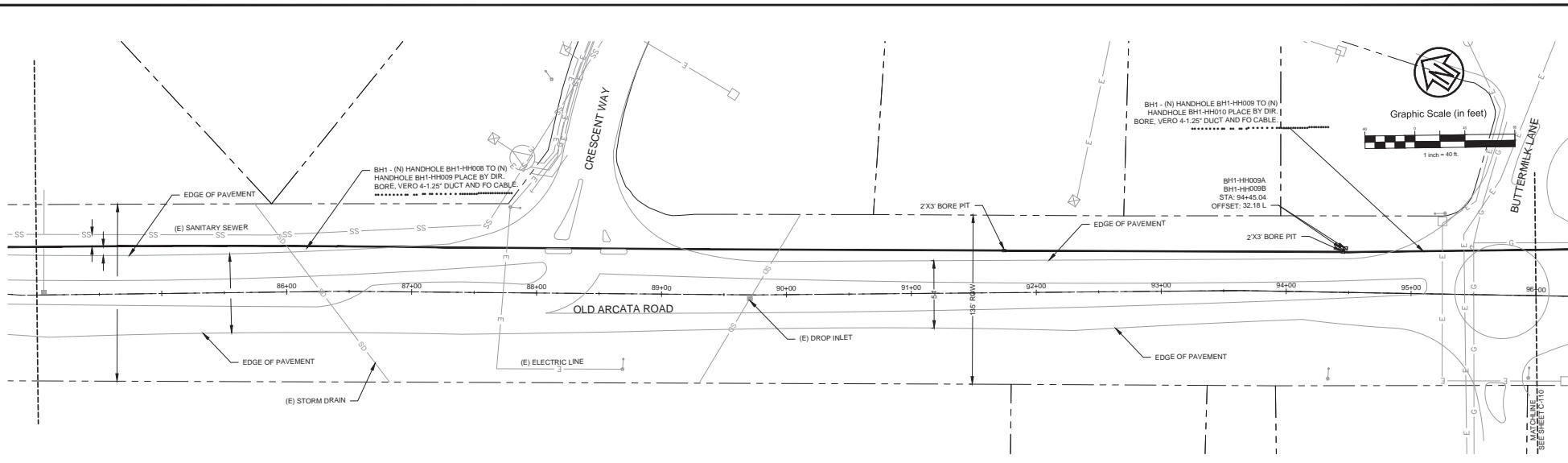
CSW/Stuber-Strack Engineering Group, Inc.
Architectural Design | Construction Management
Land Planning | Construction Engineering
Civil Engineering | Geotechnical Engineering
Structural Engineering | Environmental Engineering
Project Management | Program Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 72+00 TO STA: 84+00
VERO FIBER NETWORKS

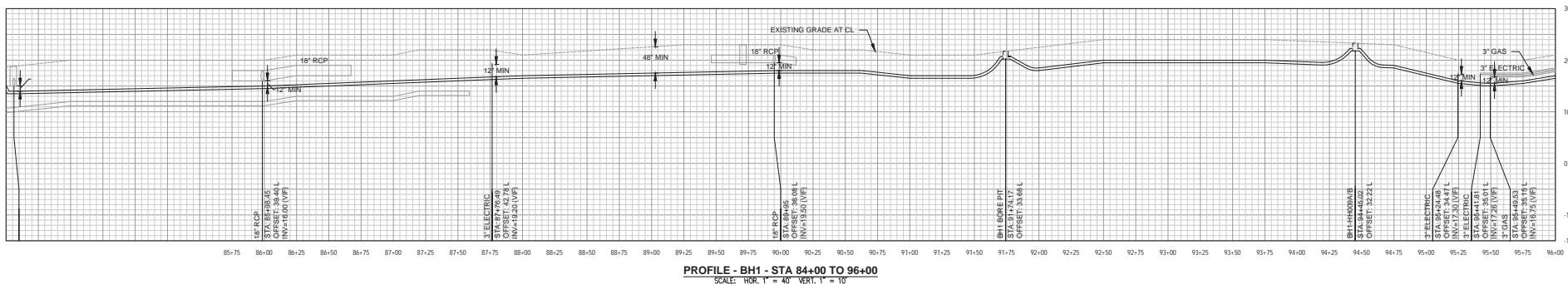


C-108

Prepared Under the Direction of:
Julia A. Harrison
No. 78528
State of California
Civil
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Page 11 of 51



PLAN - BH1 STA: 84+00 TO STA: 96+00
SCALE: 1" = 40'



PROFILE - BH1 - STA 84+00 TO 96+00
SCALE: HOR. 1" = 40' VERT. 1" = 10'

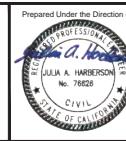
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

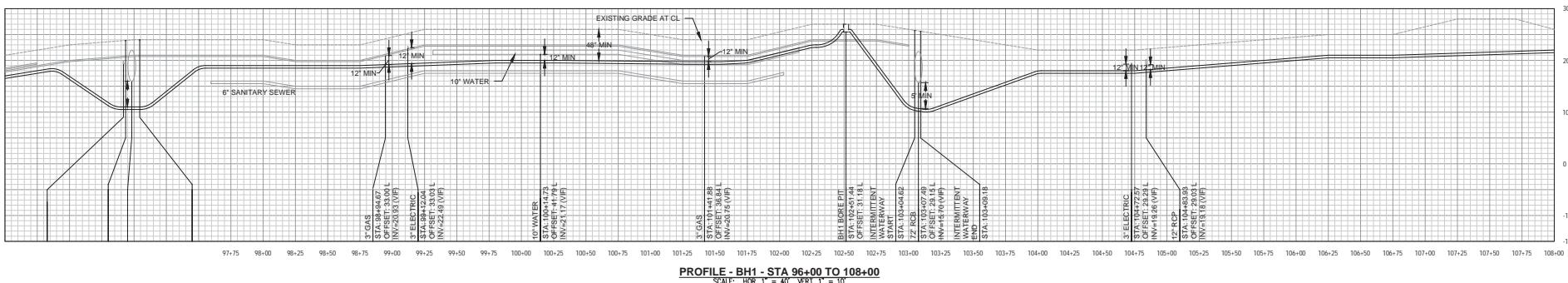
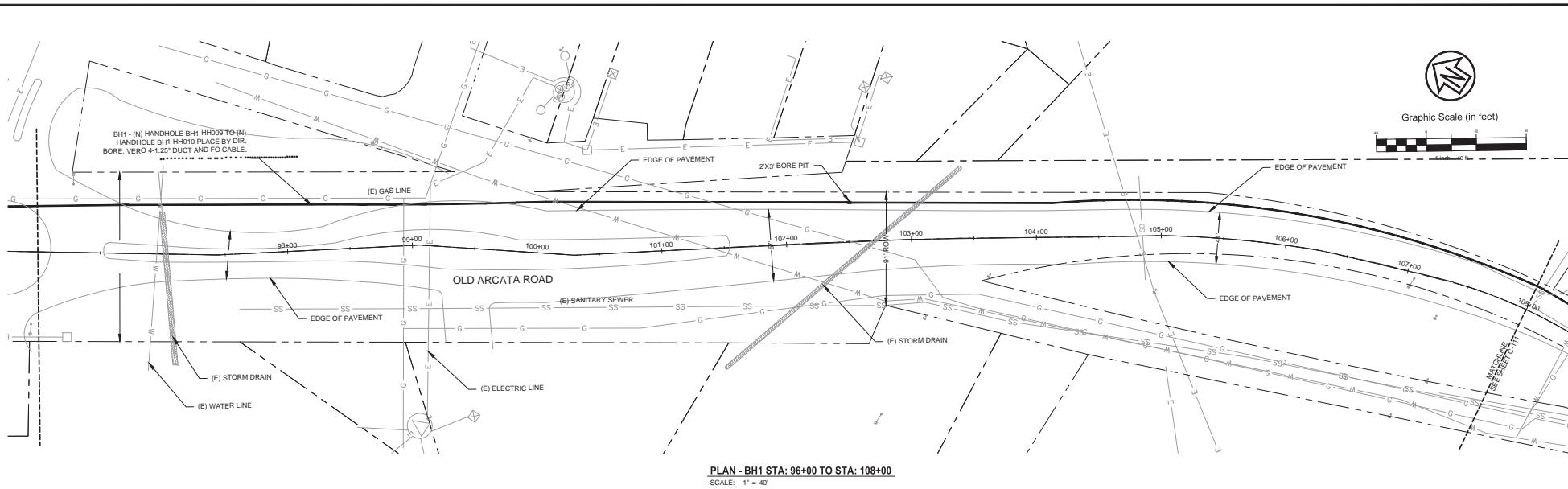
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental Engineering
Land Surveying • Construction Management
Architectural • Geotechnical • Project Management
Municipal • Water & Wastewater • Telecommunications

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 84+00 TO STA: 96+00
VERO FIBER NETWORKS



C-109

Prepared Under the Direction of:
Julia A. Harrison
No. 78928
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Page 12 of 51



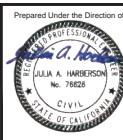
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| | JAH | FAV | JAH |
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VERO
Fiber Networks

CSW | ST2

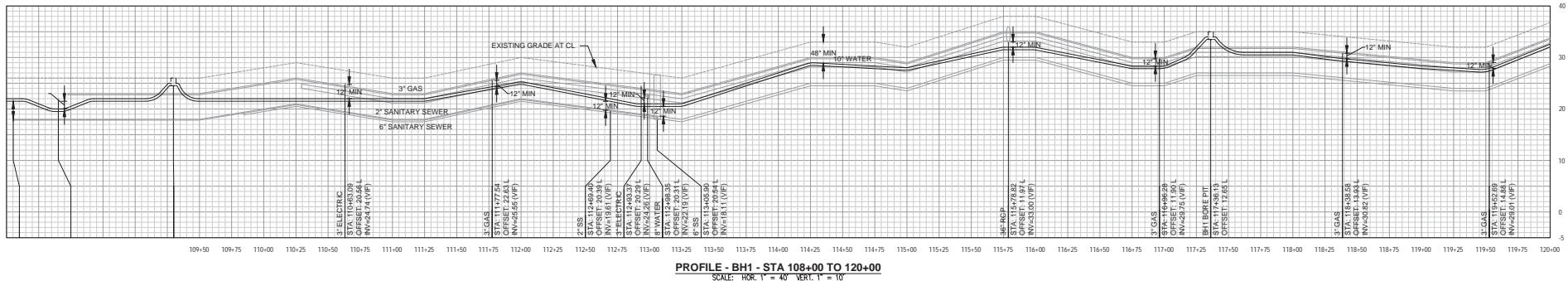
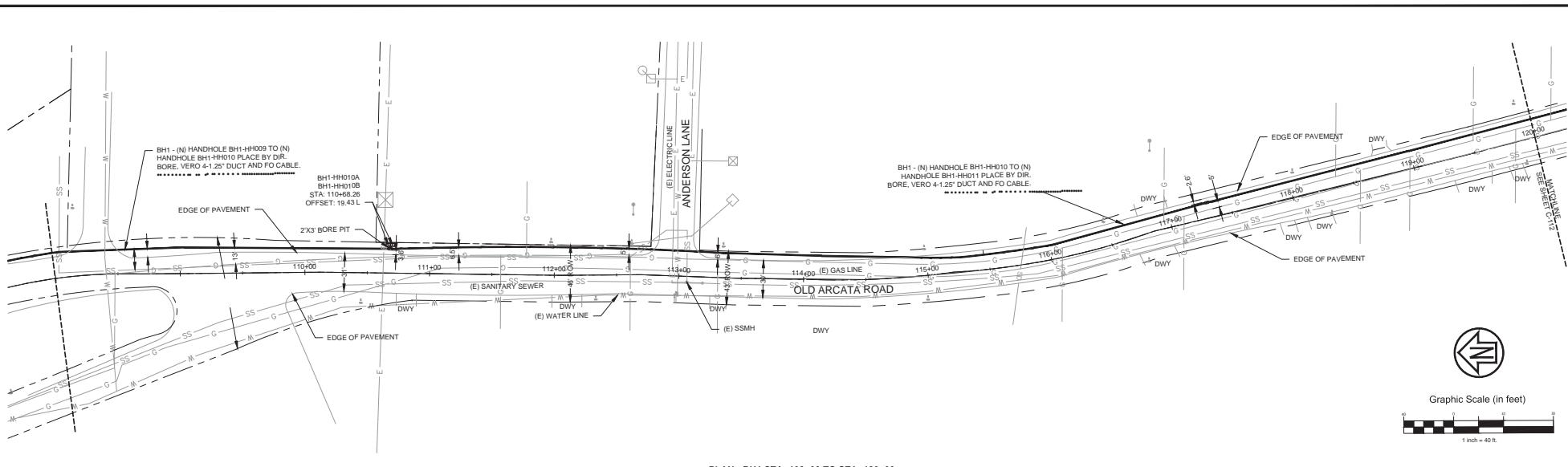
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Architecture, Construction Management,
Land Planning, Construction Services, Environmental
Assessments, Geotechnical, Water/Wastewater
Engineering, Telecommunications

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 96+00 TO STA: 108+00
VERO FIBER NETWORKS



C-110

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



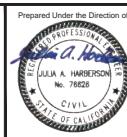
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|-----|----------|-------|---------|
| | | | |
| JAH | FAV | JAH | |

VERO
Fiber Networks

CSW | ST2

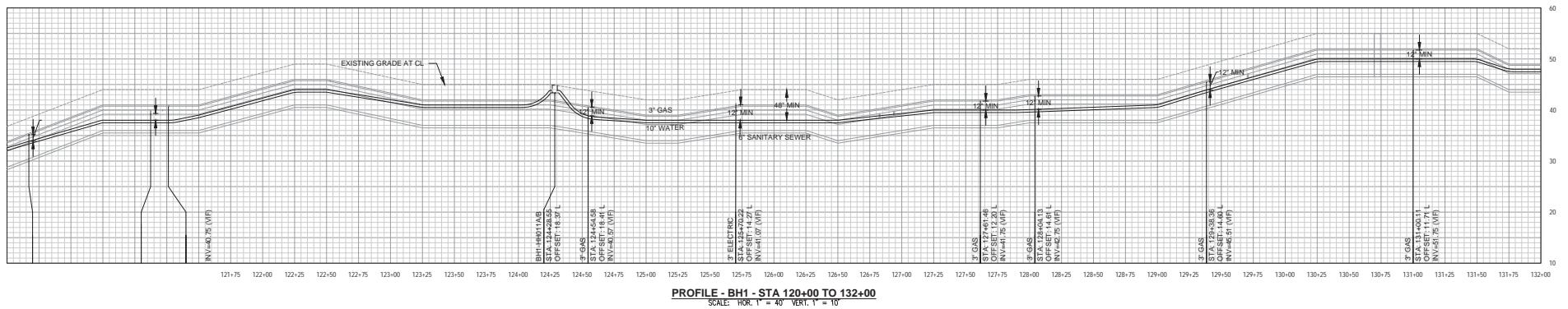
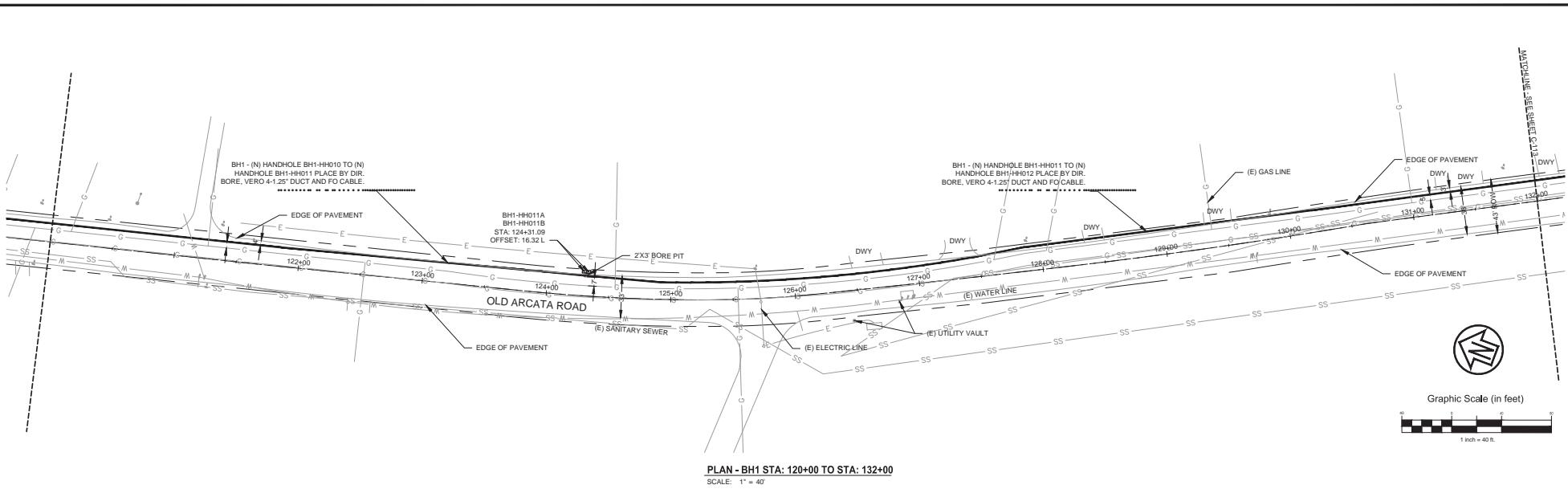
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
Architectural • Geotechnical • Surveying
Project Management • Project Control
Project Delivery • Construction Services
Telecommunications • Telecommunications

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 108+00 TO STA: 120+00
VERO FIBER NETWORKS



C-111

Prepared Under the Direction of:
JULIA A. HARRISON
No. 78928
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX



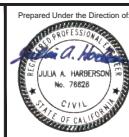
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|--|----------|-------|---------|
| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

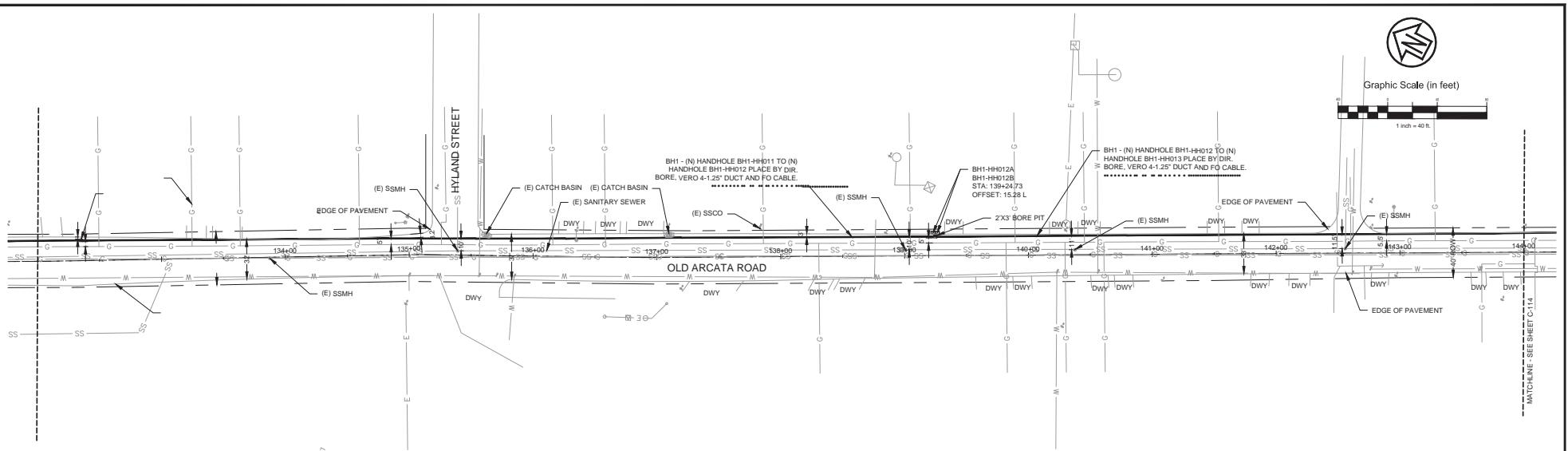
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental Engineering
Land Planning • Construction Management
All-Lawyer Court
Santa Cruz, California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 120+00 TO STA: 132+00
VERO FIBER NETWORKS

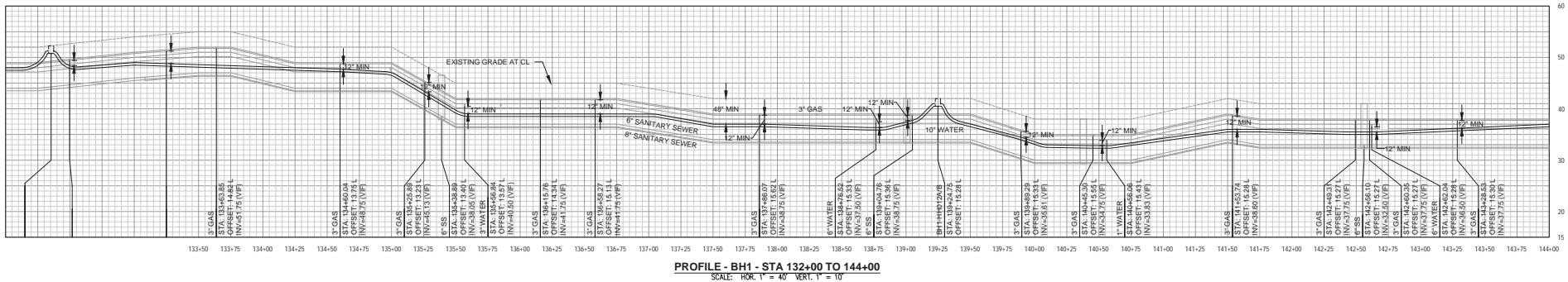


C-112

Prepared Under the Direction of:
JULIA A. HARRISON
No. 78928
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX



PLAN - BH1 STA: 132+00 TO STA: 144+00
SCALE: 1" = 40'



PROFILE - BH1 - STA 132+00 TO 144+00
SCALE: Hori. 1" = 40' Vert. 1" = 10'

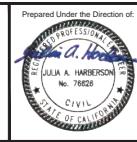
| | Designed | Drawn | Checked |
|--|----------|-------|---------|
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

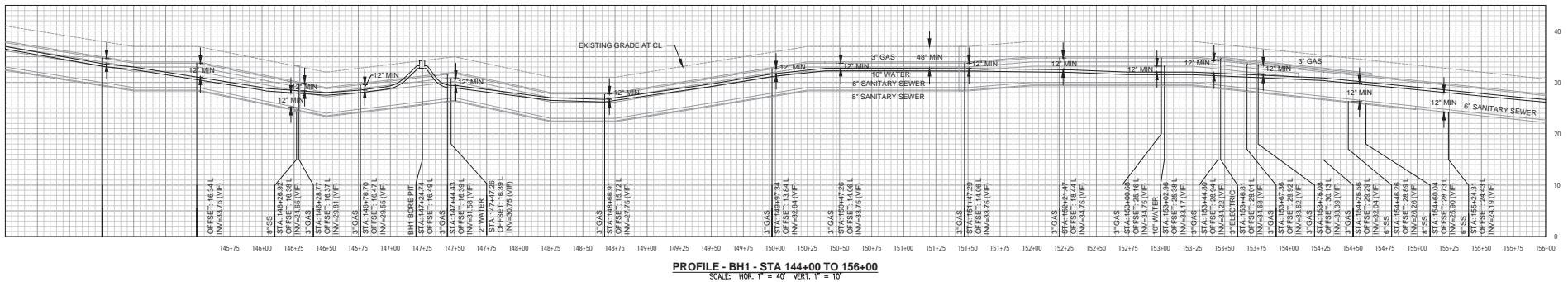
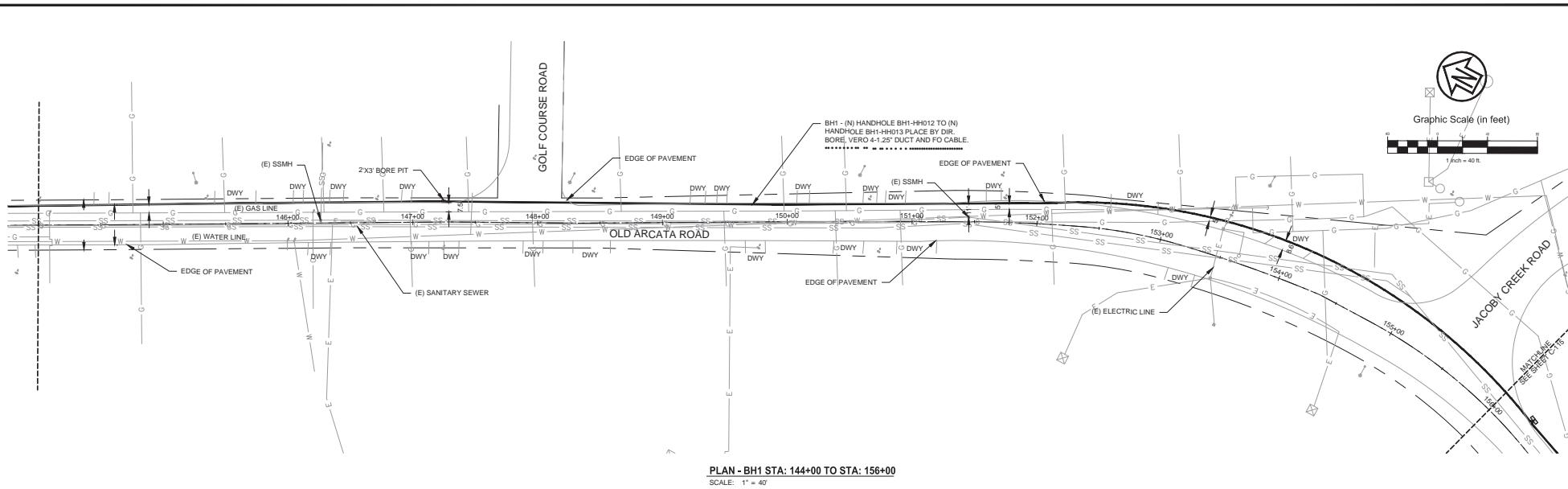
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental
and Land Planning, Construction Management,
As-Reviewed/Contractor's Representative
Project Manager
Project Superintendent

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 132+00 TO STA: 144+00
VERO FIBER NETWORKS



C-113

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX



| | Designed | Drawn | Checked |
|--|----------|-------|---------|
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

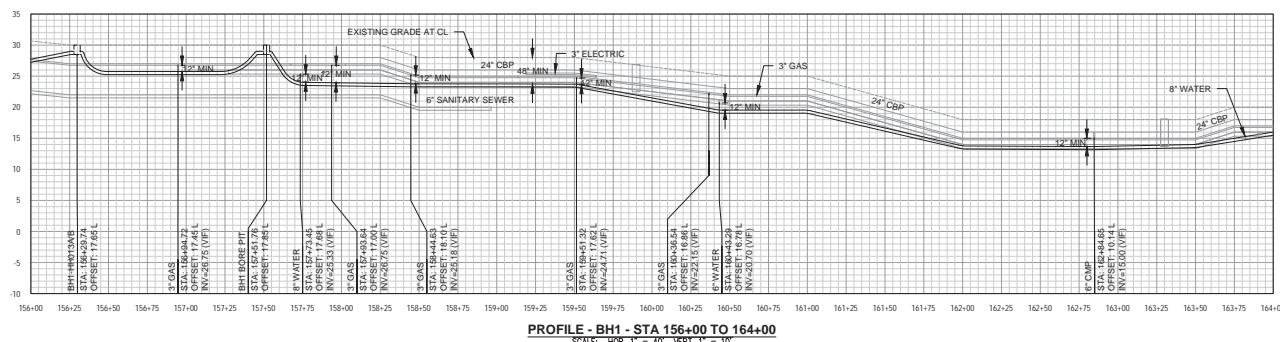
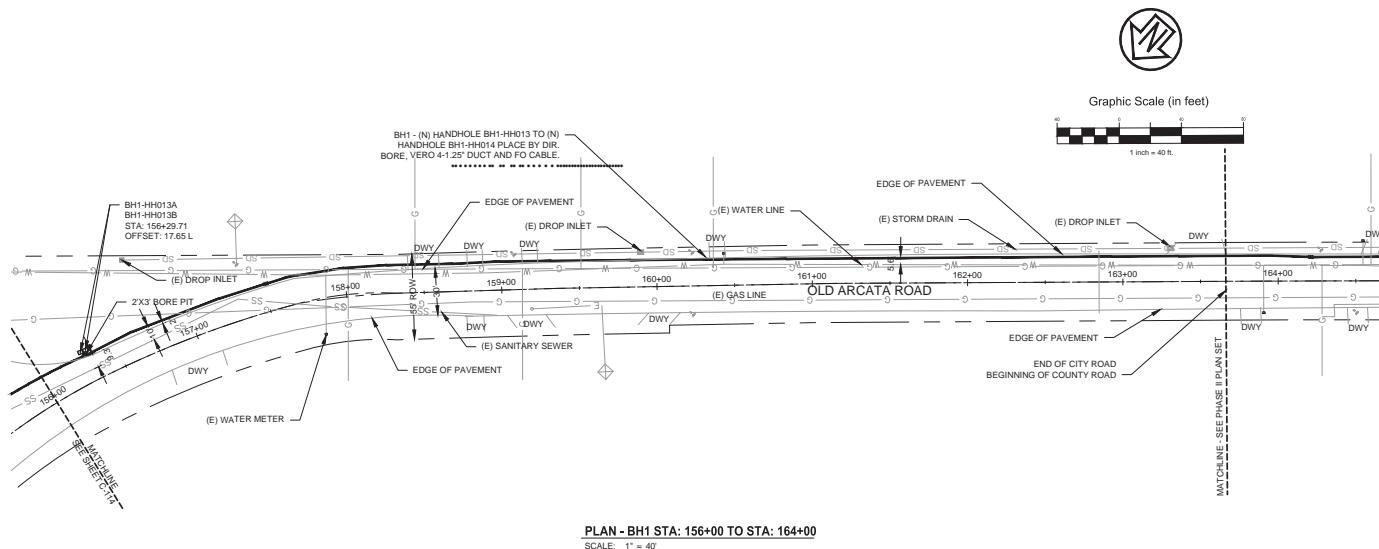
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
Architectural
Mechanical
Electrical
Plumbing
Project Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 144+00 TO STA: 156+00
VERO FIBER NETWORKS

Prepared Under the Direction of:

JULIA A. HARRISON
No. 78928
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX
C-114

0
10
20
30
40



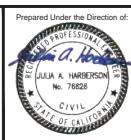
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|-----|----------|-------|---------|
| | | | |
| JAH | FAV | JAH | |

VERO
Fiber Networks

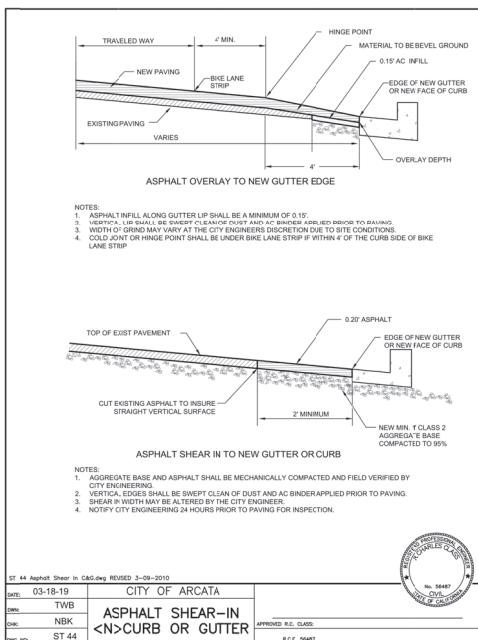
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Surveying, Land Planning, Construction Management
411 L Street, Suite 200
Arcata, California 95521
(707) 822-1100

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 156+00 TO STA: 168+00
VERO FIBER NETWORKS



Prepared Under the Direction of:
JULIA A. HARRISON
No. 78928
State of California
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Sheet **C-115**



(C) ASPHALT DETAIL

(D) ASPHALT DETAIL

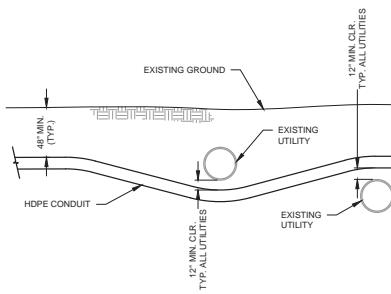
SCALE: N.T.S.

ST 43A Asphalt Digout

| | | |
|------------------|----------------|--|
| DATE: 07/11/07 | CITY OF ARCATA | APPROVED R.C. CLASS: R.C.E. #56487 EXP 6/30/11 |
| OWN: TWB | ASPHALT DIGOUT | |
| ENG: RCC | | |
| REC. NO.: ST 43A | | |

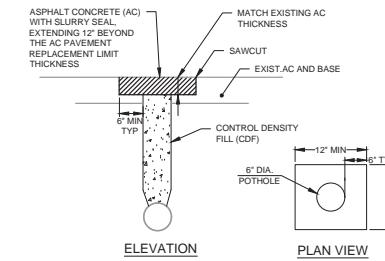
(E) A2 CURB & GUTTER W/SIDEWALK

SCALE: N.T.S.



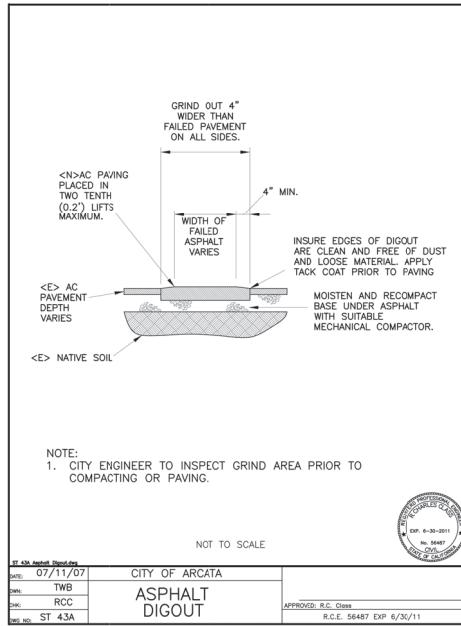
(A) TYPICAL UTILITY CROSSING DETAIL

SCALE: 1" = 5'



(B) TYPICAL POTHOLE REPAIR

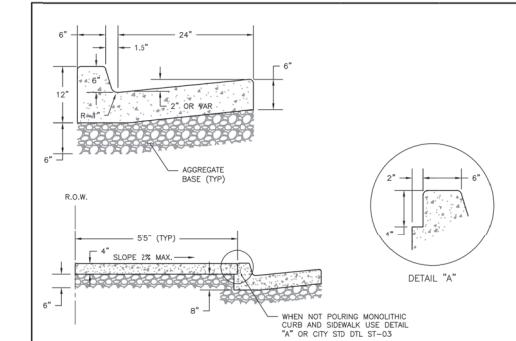
SCALE: 1" = 5'



NOT TO SCALE

ST 43A Asphalt Digout

| | | |
|------------------|----------------|--|
| DATE: 07/11/07 | CITY OF ARCATA | APPROVED R.C. CLASS: R.C.E. #56487 EXP 6/30/11 |
| OWN: TWB | ASPHALT DIGOUT | |
| ENG: RCC | | |
| REC. NO.: ST 43A | | |



NOTES:

1. SEE CITY STANDARD ST-05 FOR LOCATION OF WEAKENED PLANES AND JOINTS.
2. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
3. ALL CONCRETE SHALL BE 520-C-2500 AS PER THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. ALL CONCRETE SHALL BE PLACED IN 12" LOTS TO 12" RADIUS UNLESS OTHERWISE SPECIFIED.
5. AGGREGATE BASE MATERIAL SHALL BE CALTRANS CLASS 2, MAX 3" AGGREGATE BASE, COMPACTED TO 95% RELATIVE COMPACTION.
6. WHERE SIDEWALK IS ADJACENT TO EXISTING SIDEWALK DOWELS SHALL BE USED TO PREVENT UNEVEN SETTLING. USE 12" OF #3 REBAR AT 12" O.C.
7. BACK FILL WALK TO ALIGN WITH PUBLIC RIGHT-OF-WAY LINE UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
8. WIDTH OF SIDEWALK MAY VARY AND SHALL BE APPROVED BY ENGINEER.
9. INSPECTION OF FORMS AND FINISHED WORK, WHEN REQUIRED, SCHEDULE INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE.

REVISION BY APPROVED DATE CITY OF ARCATA APPROVED BY:

| | | | | |
|----------------|-----|---------|------------------------------|-----------------------------|
| (ORIGINAL) TWB | RCC | 06/2005 | CITY OF ARCATA | N. B. KHATRI, R.C.E. #75428 |
| | | | A2 CURB & GUTTER W/ SIDEWALK | DRAWING NUMBER ST-01B |
| | | | | |
| | | | | |

| | Designed | Drawn | Checked |
|--|----------|-------|---------|
| | JAH | FAV | JAH |
| | | | |
| | | | |

VERO
Fiber Networks

CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Architecture, Surveying, Environmental
Land Planning, Construction Management,
Asphalt Pavement
Neutra, Cushing
Incorporated

ARCATA/EUREKA FIBER PROJECT
CONSTRUCTION DETAILS
VERO FIBER NETWORKS

Prepared Under the Direction of: Sheet C-501

Scale: 1" = 40' Date: 09/23/20 Project Number: 1910140 Plan File: D-XXXXX

RECOGNIZED PROFESSIONAL JULIA A. HARRISON No. 78928 STATE OF CALIFORNIA



ARCATA/EUREKA FIBER PROJECT - PHASE II

STA: 163+66.31 TO STA: 504+99.80

COUNTY OF HUMBOLDT

AUGUST 2020

| | OVERALL LOCATION MAP | LOCATION MAP | SHEET INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------------------------|--|---------|-----------------------------|------------------|--|---|--|-------------------------------------|-----------------------------|--------------------|-----------------------------|---|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|---|-----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Boulder, Colorado 80306 EMAIL: nmcginn@veronetworks.com | <p>OVERALL LOCATION MAP SCALE: NTS</p> | <p>LOCATION MAP SCALE: NTS</p> | <table border="1"> <tr> <td>GENERAL</td> <td>C-703 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>G-001 COVERSHEET</td> <td>C-704 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>G-002 SHEET KEY MAP</td> <td>C-705 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>G-003 NOTES, LEGENDS AND QUANTITIES</td> <td>C-706 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>CIVIL IMPROVEMENTS</td> <td>C-707 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-101 CONDUIT LAYOUT PLAN & PROFILE STA:163+66.31 TO STA:175+00</td> <td>C-708 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-102 CONDUIT LAYOUT PLAN & PROFILE STA:175+00 TO STA:187+00</td> <td>C-709 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-103 CONDUIT LAYOUT PLAN & PROFILE STA:187+00 TO STA:199+00</td> <td>C-710 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-104 CONDUIT LAYOUT PLAN & PROFILE STA:199+00 TO STA:211+00</td> <td>C-711 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-105 CONDUIT LAYOUT PLAN & PROFILE STA:211+00 TO STA:232+00</td> <td>C-712 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-106 CONDUIT LAYOUT PLAN & PROFILE STA:232+00 TO STA:256+00</td> <td>C-713 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-107 CONDUIT LAYOUT PLAN & PROFILE STA:256+00 TO STA:274+00</td> <td>C-714 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-108 CONDUIT LAYOUT PLAN & PROFILE STA:274+00 TO STA:299+00</td> <td>C-715 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-109 CONDUIT LAYOUT PLAN & PROFILE STA:299+00 TO STA:317+00</td> <td>C-716 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-110 CONDUIT LAYOUT PLAN & PROFILE STA:317+00 TO STA:334+00</td> <td>C-717 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-111 CONDUIT LAYOUT PLAN & PROFILE STA:334+00 TO STA:356+00</td> <td>C-718 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-112 CONDUIT LAYOUT PLAN & PROFILE STA:356+00 TO STA:370+00</td> <td>C-719 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-113 CONDUIT LAYOUT PLAN & PROFILE STA:370+00 TO STA:391+00</td> <td>C-720 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-114 CONDUIT LAYOUT PLAN & PROFILE STA:391+00 TO STA:393+00</td> <td>C-721 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-115 CONDUIT LAYOUT PLAN & PROFILE STA:393+00 TO STA:434+00</td> <td>C-722 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-116 CONDUIT LAYOUT PLAN & PROFILE STA:434+00 TO STA:456+00</td> <td>C-723 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-117 CONDUIT LAYOUT PLAN & PROFILE STA:456+00 TO STA:476+00</td> <td>C-724 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-118 CONDUIT LAYOUT PLAN & PROFILE STA:476+00 TO STA:479+00</td> <td>C-725 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-119 CONDUIT LAYOUT PLAN & PROFILE STA:479+00 TO STA:491+00</td> <td>C-726 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-120 CONDUIT LAYOUT PLAN & PROFILE STA:491+00 TO STA:493+00</td> <td>C-727 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-121 CONDUIT LAYOUT PLAN & PROFILE STA:493+00 TO STA:496+00</td> <td>C-728 TRAFFIC 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DETAILS</td> <td>C-737 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-701 TRAFFIC CONTROL PLANS</td> <td>C-738 TRAFFIC CONTROL PLANS</td> </tr> <tr> <td>C-702 TRAFFIC CONTROL PLANS</td> <td>C-739 TRAFFIC CONTROL PLANS</td> </tr> </table> | GENERAL | C-703 TRAFFIC CONTROL PLANS | G-001 COVERSHEET | C-704 TRAFFIC CONTROL PLANS | G-002 SHEET KEY MAP | C-705 TRAFFIC CONTROL PLANS | G-003 NOTES, LEGENDS AND QUANTITIES | C-706 TRAFFIC CONTROL PLANS | CIVIL IMPROVEMENTS | C-707 TRAFFIC CONTROL PLANS | C-101 CONDUIT LAYOUT PLAN & PROFILE STA:163+66.31 TO STA:175+00 | C-708 TRAFFIC CONTROL PLANS | C-102 CONDUIT LAYOUT PLAN & PROFILE STA:175+00 TO STA:187+00 | C-709 TRAFFIC CONTROL PLANS | C-103 CONDUIT LAYOUT PLAN & PROFILE STA:187+00 TO STA:199+00 | C-710 TRAFFIC CONTROL PLANS | C-104 CONDUIT LAYOUT PLAN & PROFILE STA:199+00 TO STA:211+00 | C-711 TRAFFIC CONTROL PLANS | C-105 CONDUIT LAYOUT PLAN & PROFILE STA:211+00 TO STA:232+00 | C-712 TRAFFIC CONTROL PLANS | C-106 CONDUIT LAYOUT PLAN & PROFILE 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| GENERAL | C-703 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-001 COVERSHEET | C-704 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-002 SHEET KEY MAP | C-705 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G-003 NOTES, LEGENDS AND QUANTITIES | C-706 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIVIL IMPROVEMENTS | C-707 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-101 CONDUIT LAYOUT PLAN & PROFILE STA:163+66.31 TO STA:175+00 | C-708 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-102 CONDUIT LAYOUT PLAN & PROFILE STA:175+00 TO STA:187+00 | C-709 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-103 CONDUIT LAYOUT PLAN & PROFILE STA:187+00 TO STA:199+00 | C-710 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-104 CONDUIT LAYOUT PLAN & PROFILE STA:199+00 TO STA:211+00 | C-711 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-105 CONDUIT LAYOUT PLAN & PROFILE STA:211+00 TO STA:232+00 | C-712 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-106 CONDUIT LAYOUT PLAN & PROFILE STA:232+00 TO STA:256+00 | C-713 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-107 CONDUIT LAYOUT PLAN & PROFILE STA:256+00 TO STA:274+00 | C-714 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-108 CONDUIT LAYOUT PLAN & PROFILE STA:274+00 TO STA:299+00 | C-715 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-109 CONDUIT LAYOUT PLAN & PROFILE STA:299+00 TO STA:317+00 | C-716 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-110 CONDUIT LAYOUT PLAN & PROFILE STA:317+00 TO STA:334+00 | C-717 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-111 CONDUIT LAYOUT PLAN & PROFILE STA:334+00 TO STA:356+00 | C-718 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-112 CONDUIT LAYOUT PLAN & PROFILE STA:356+00 TO STA:370+00 | C-719 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-113 CONDUIT LAYOUT PLAN & PROFILE STA:370+00 TO STA:391+00 | C-720 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-114 CONDUIT LAYOUT PLAN & PROFILE STA:391+00 TO STA:393+00 | C-721 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-115 CONDUIT LAYOUT PLAN & PROFILE STA:393+00 TO STA:434+00 | C-722 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-116 CONDUIT LAYOUT PLAN & PROFILE STA:434+00 TO STA:456+00 | C-723 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-117 CONDUIT LAYOUT PLAN & PROFILE STA:456+00 TO STA:476+00 | C-724 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-118 CONDUIT LAYOUT PLAN & PROFILE STA:476+00 TO STA:479+00 | C-725 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-119 CONDUIT LAYOUT PLAN & PROFILE STA:479+00 TO STA:491+00 | C-726 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-120 CONDUIT LAYOUT PLAN & PROFILE STA:491+00 TO STA:493+00 | C-727 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-121 CONDUIT LAYOUT PLAN & PROFILE STA:493+00 TO STA:496+00 | C-728 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-122 CONDUIT LAYOUT PLAN & PROFILE STA:496+00 TO STA:470+00 | C-729 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-123 CONDUIT LAYOUT PLAN & PROFILE STA:470+00 TO STA:499+00 | C-730 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-124 CONDUIT LAYOUT PLAN & PROFILE STA:499+00 TO STA:461+00 | C-731 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-125 CONDUIT LAYOUT PLAN & PROFILE STA:461+00 TO STA:463+00 | C-732 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-126 CONDUIT LAYOUT PLAN & PROFILE STA:463+00 TO STA:476+00 | C-733 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-127 CONDUIT LAYOUT PLAN & PROFILE STA:476+00 TO STA:486+00 | C-734 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-128 CONDUIT LAYOUT PLAN & PROFILE STA:486+00 TO STA:496+00 | C-735 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-129 CONDUIT LAYOUT PLAN & PROFILE STA:496+00 TO STA:504+99.80 | C-736 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-601 CONSTRUCTION DETAILS | C-737 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-701 TRAFFIC CONTROL PLANS | C-738 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-702 TRAFFIC CONTROL PLANS | C-739 TRAFFIC CONTROL PLANS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Designed</td> <td>Drawn</td> <td>Checked</td> </tr> <tr> <td>JAH</td> <td>FAV</td> <td>JAH</td> </tr> </table> | Designed | Drawn | Checked | JAH | FAV | JAH | <p>CSW ST2 CSW/Stuber-Strack Engineering Group, Inc. Civil, Architectural, Structural, Geotechnical, Environmental Land Planning, Construction Management As-Reviewed/As-Built Neals, Cresson Foothillmen</p> | <p>ARCATA/EUREKA FIBER PROJECT COVERSHEET VERO FIBER NETWORKS</p> | <p>Prepared Under the Direction of: Julia A. Harrison No. 76828 CIVIL STATE OF CALIFORNIA RECEIVED PROFESSIONAL ENGINEERS & LAND SURVEYORS STATE OF CALIFORNIA 08/20/2020 08:30 AM RUMBLE 133007</p> <p>Sheet G-001</p> <p>Scale: _____ Date: 09/23/20 Project Number: 1910140 Plan File: D-XXXXX</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designed | Drawn | Checked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JAH | FAV | JAH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



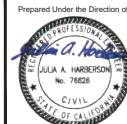
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VERO
Fiber Networks

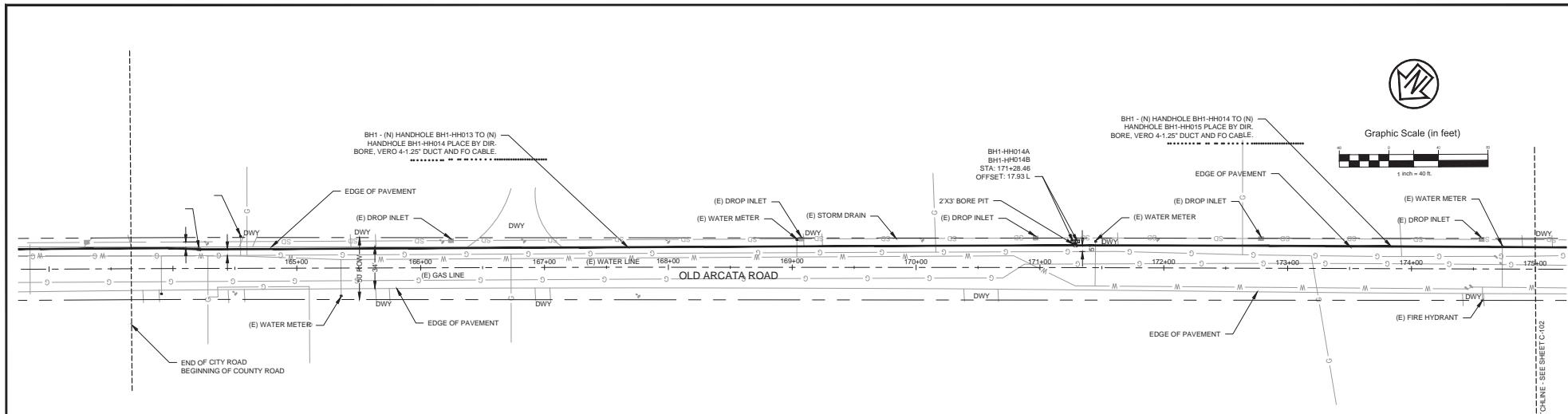
CSW|ST2

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Land Development, Geotechnical, Structural, Environmental, Civil
and Planning, Construction Management,
Litigation Consulting
Santa Barbara, California

ARCATA/EUREKA FIBER PROJECT
SHEET KEY MAP
VERO FIBER NETWORKS

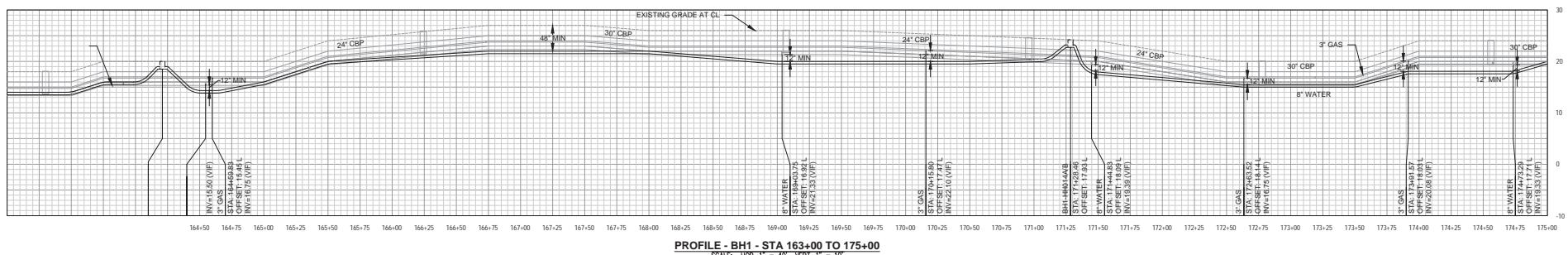


Prepared Under the Direction of:
Julia A. Harrison
RECORDING PROFESSIONAL ENGINEER
No. 76828
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX
Sheet G-002



PLAN - BH1 STA: 163+00 TO STA: 175+00

SCALE: 1" = 40'



PROFILE - BH1 - STA 163+00 TO 175+00

SCALE: HCR, 1" = 40' VERT, 1" = 10'

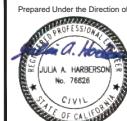
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Fiber Networks

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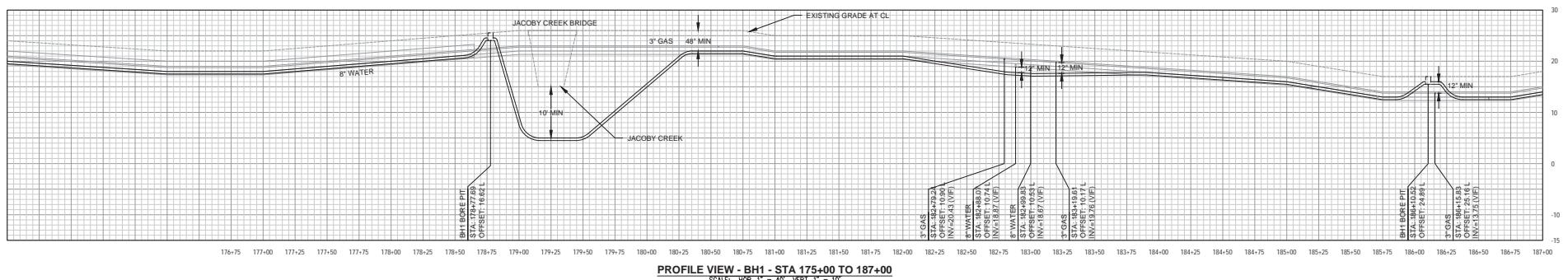
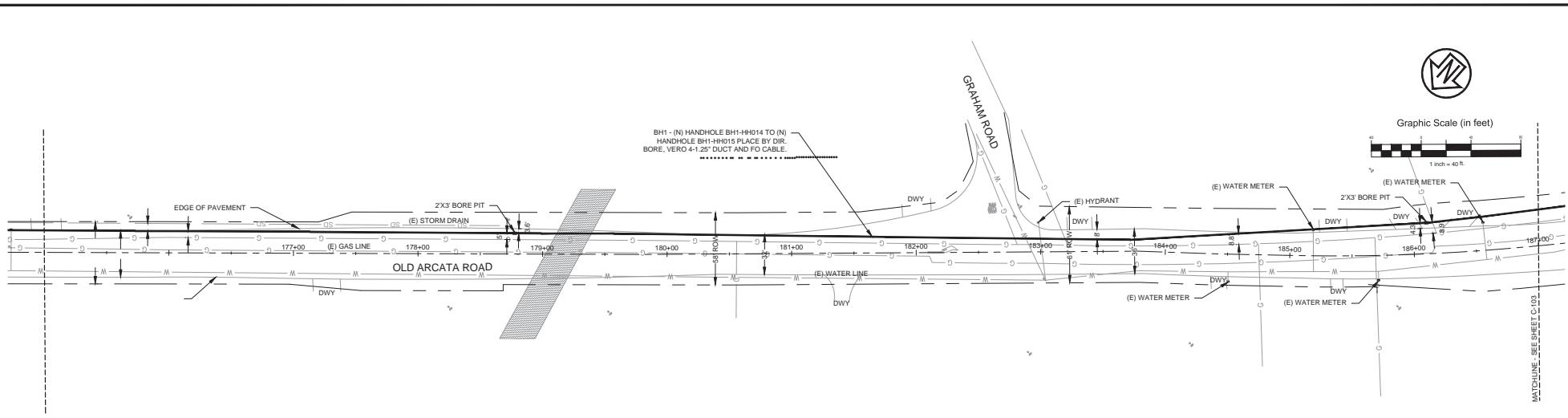
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
As-Planned Cont.
North, California
Project Manager: **John S. Stober**

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 163+00 TO STA: 175+00
VERO FIBER NETWORKS



C-101

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



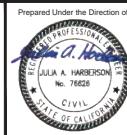
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| | JAH | FAV | JAH |

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Civil Engineering Services | Construction Management
Land Planning | Environmental Assessment
Asbestos Abatement
Noise & Vibration
Geotechnical

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 175+00 TO STA: 187+00
VERO FIBER NETWORKS



C-102

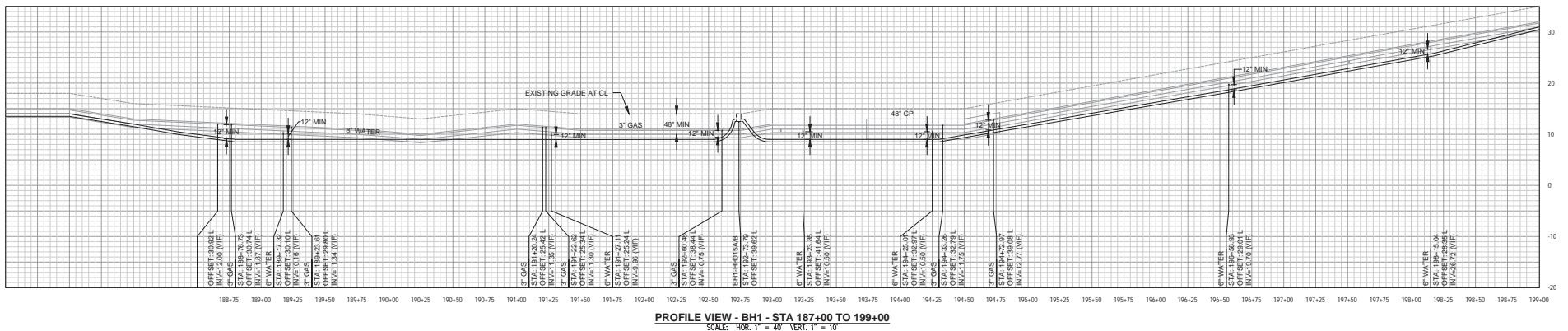
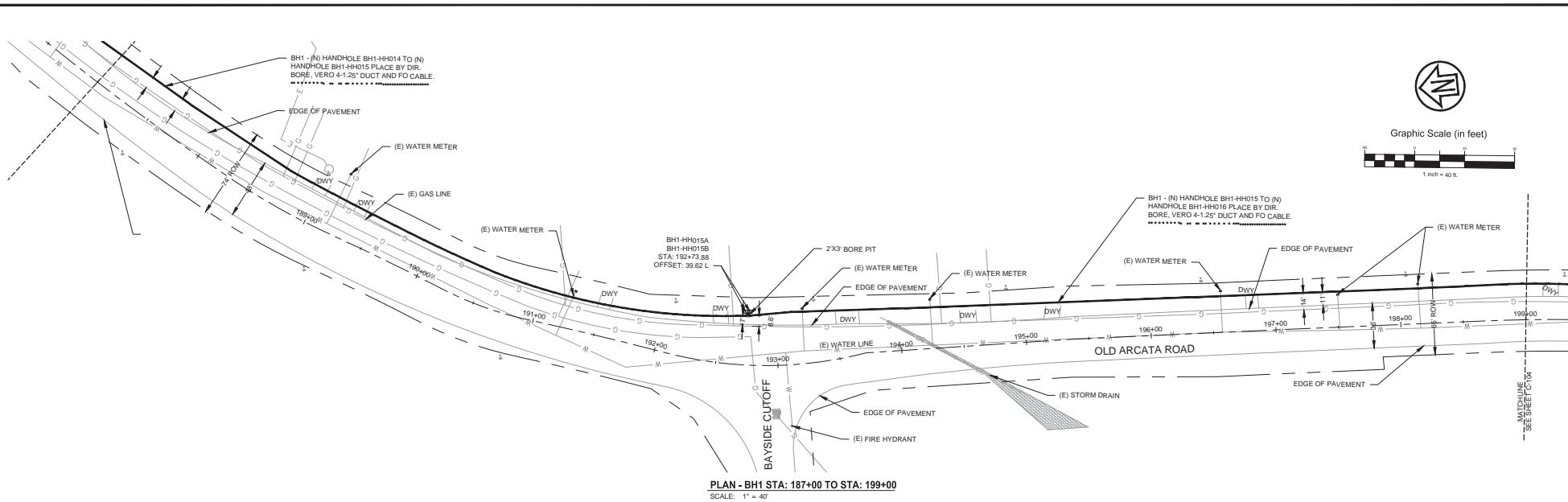
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Date: 09/23/20

Project Number: 1910140

Plan File: D-XXXX

Page 23 of 51



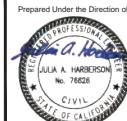
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Fiber Networks

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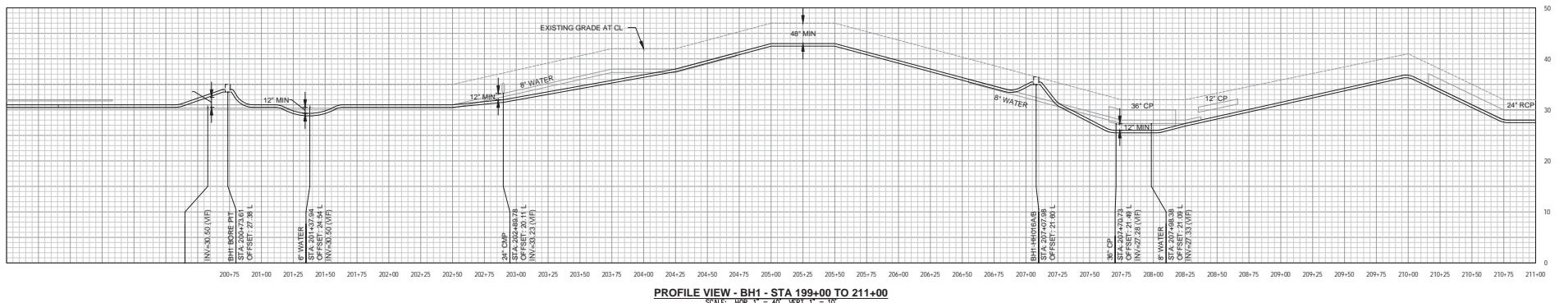
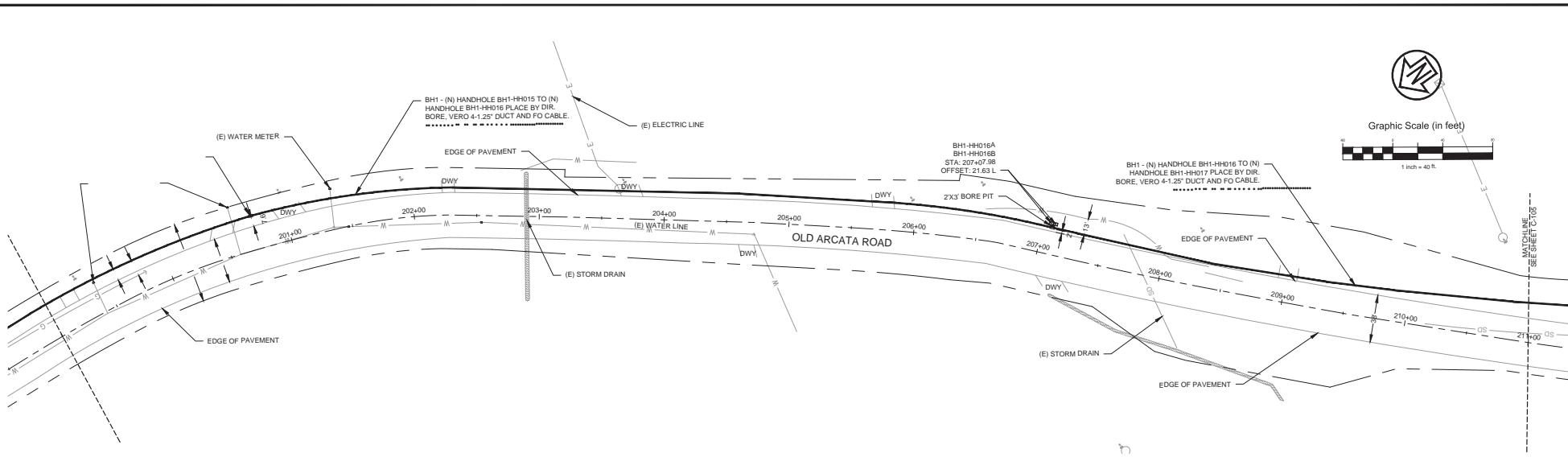
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Civil Engineering • Structural Engineering • Environmental Engineering
Land Surveying • Construction Management
As-Is Surveying
Neon, CRVNE
Hyperion

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 187+00 TO STA: 199+00
VERO FIBER NETWORKS



C-103

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



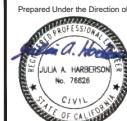
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| | JAH | FAV | JAH |
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Land Planning • Construction Management
As-Is Surveying
Title Insurance
Archaeological Services

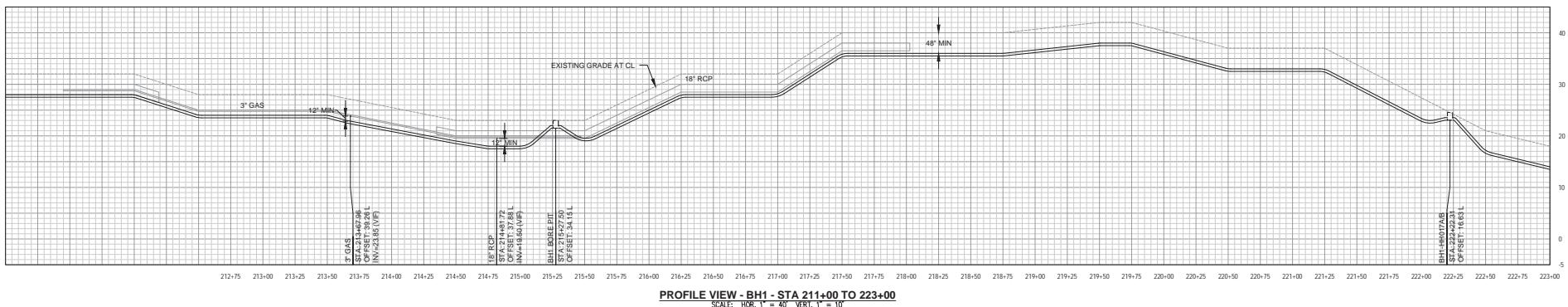
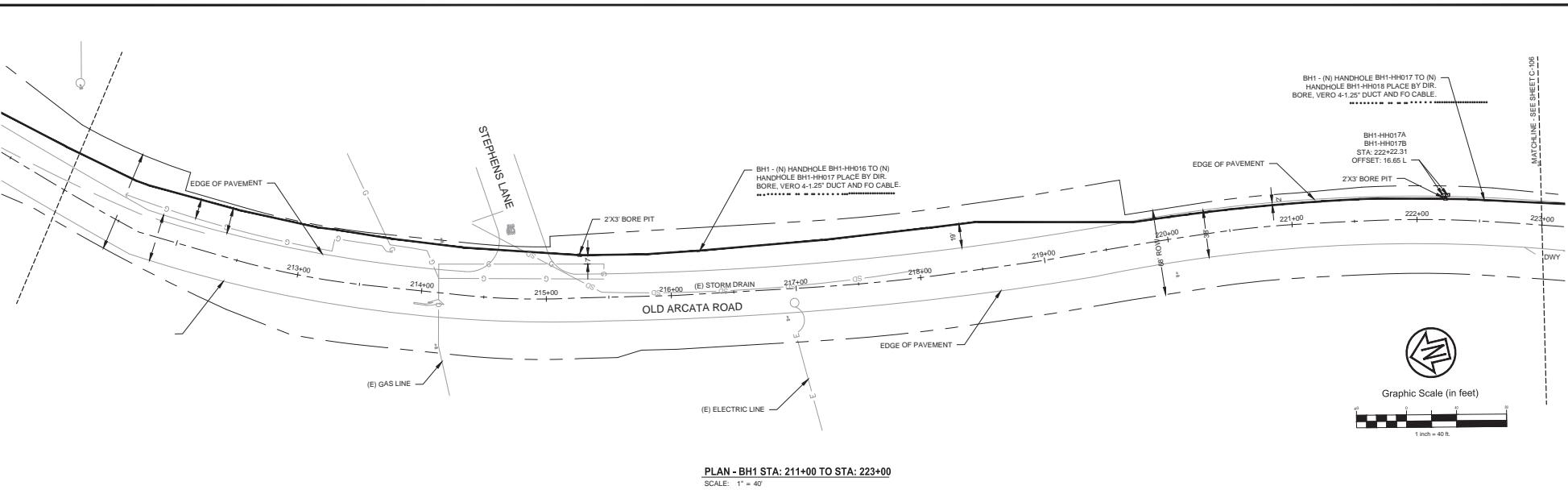
ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 199+00 TO STA: 211+00
VERO FIBER NETWORKS



C-104

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Project Number: 1910140
Plan File: D-XXXXX

Scale: 1" = 40'
Date: 09/23/20
Page 25 of 51



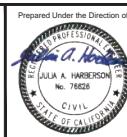
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Fiber Networks

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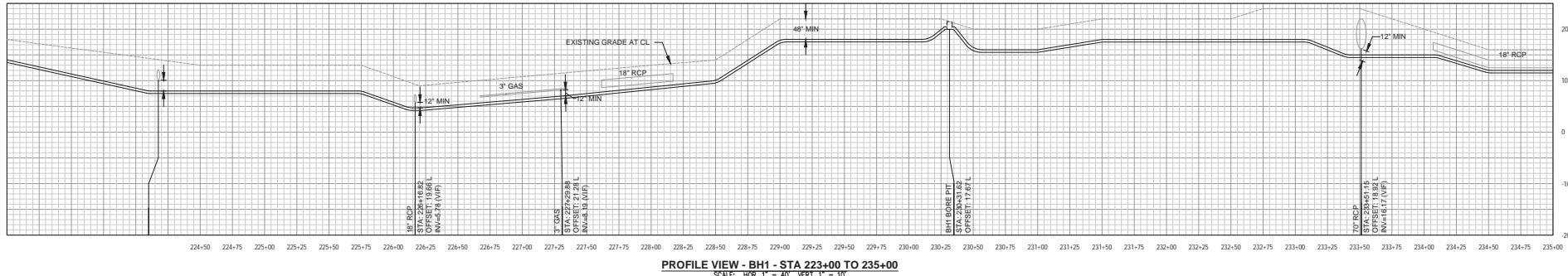
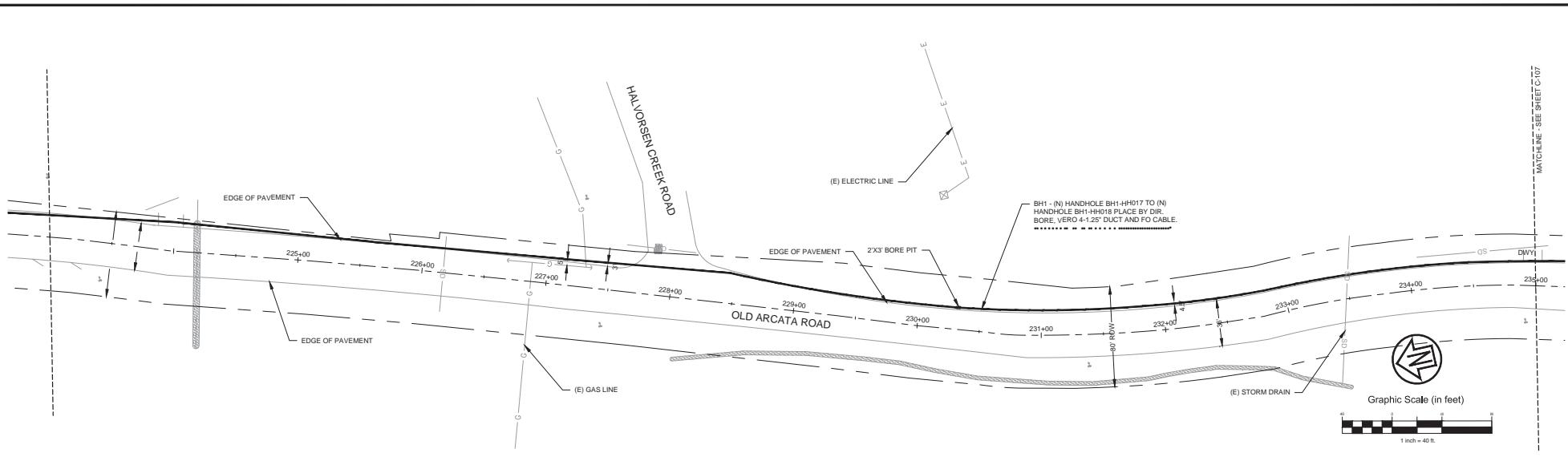
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental Engineering,
Land Planning, Construction Management
411 Lassen Court
Redding, California
530.245.1800

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 211+00 TO STA: 223+00
VERO FIBER NETWORKS



C-105

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Project Number: 1910140
Plan File: D-XXXX
Scale: 1" = 40'
Date: 09/23/20
Page 26 of 51



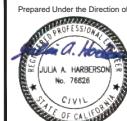
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Fiber Networks

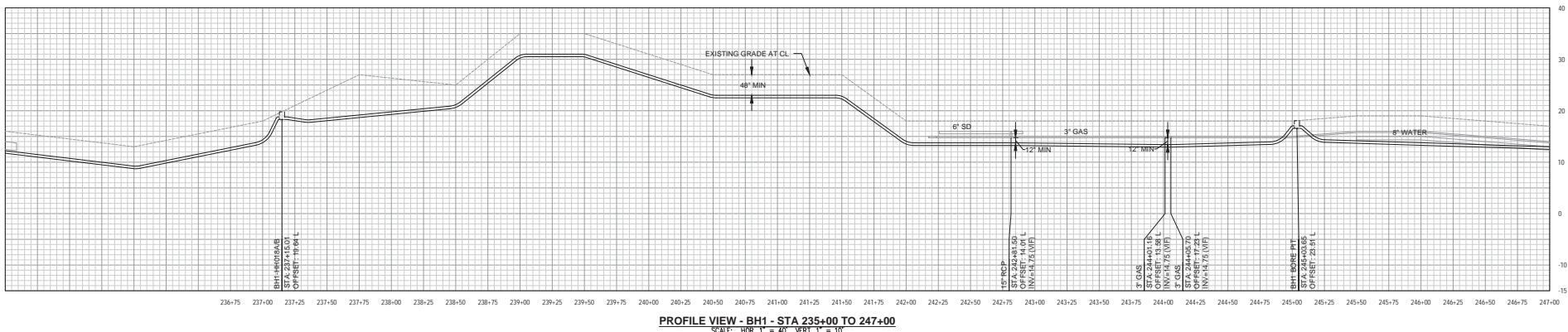
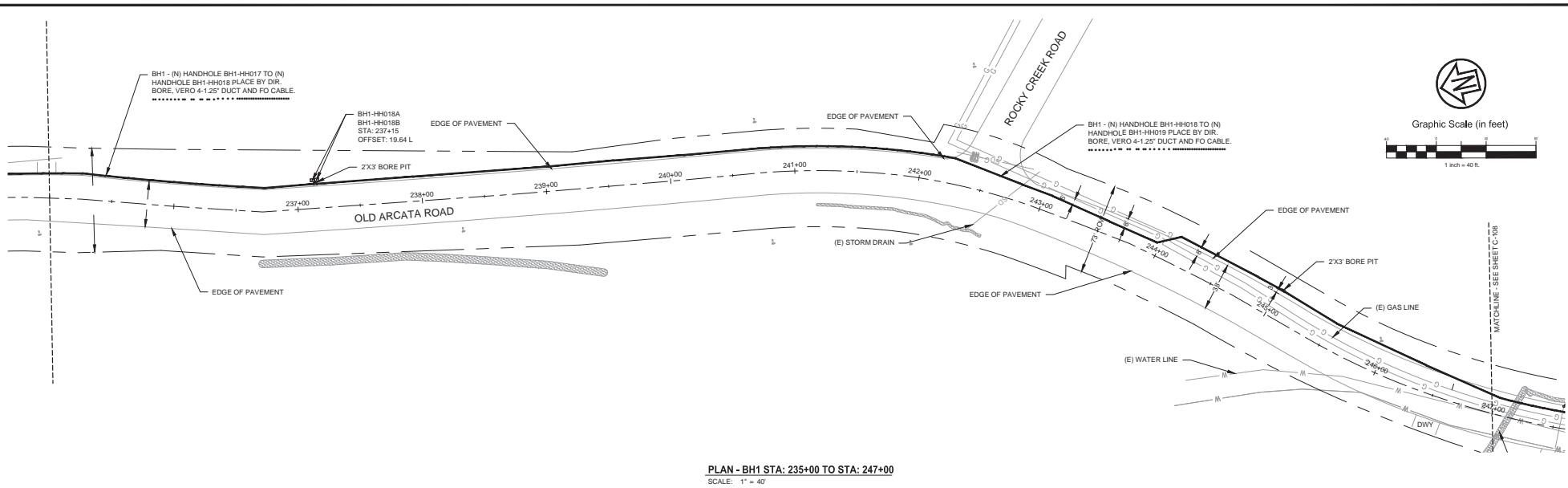
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Land Planning, Construction Management
411 Lassen Court
Napa, California
415-425-1000

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 223+00 TO STA: 235+00
VERO FIBER NETWORKS



C-106
Prepared Under the Direction of:
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Page 27 of 51



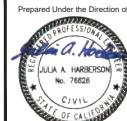
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

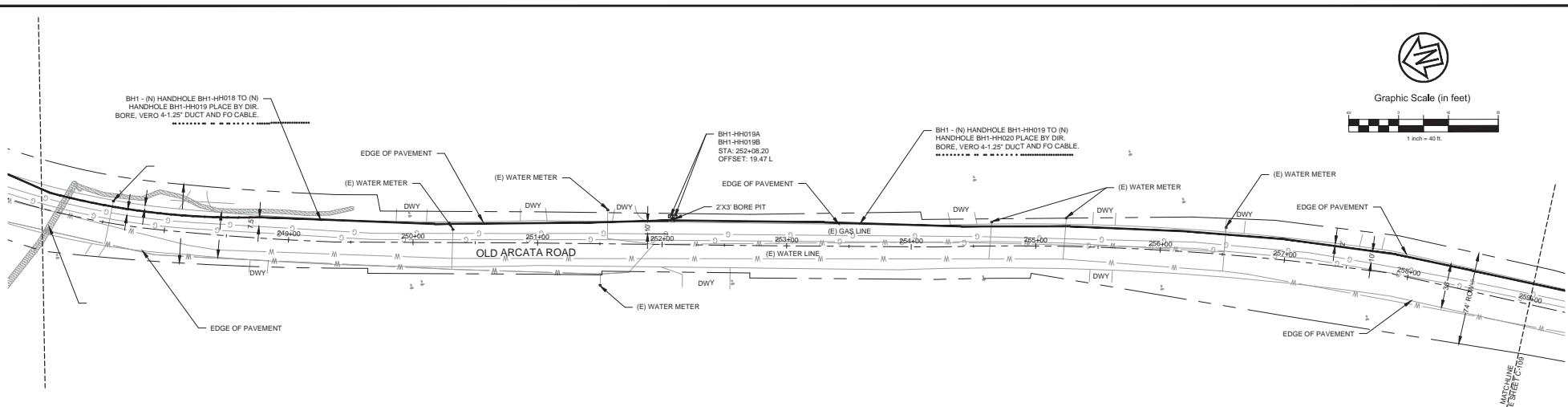
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Surveying, Geotechnical, Environmental
Land Planning, Construction Management
All Levee Cont.
North, California
Project Manager

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 228+00 TO STA: 240+00
VERO FIBER NETWORKS

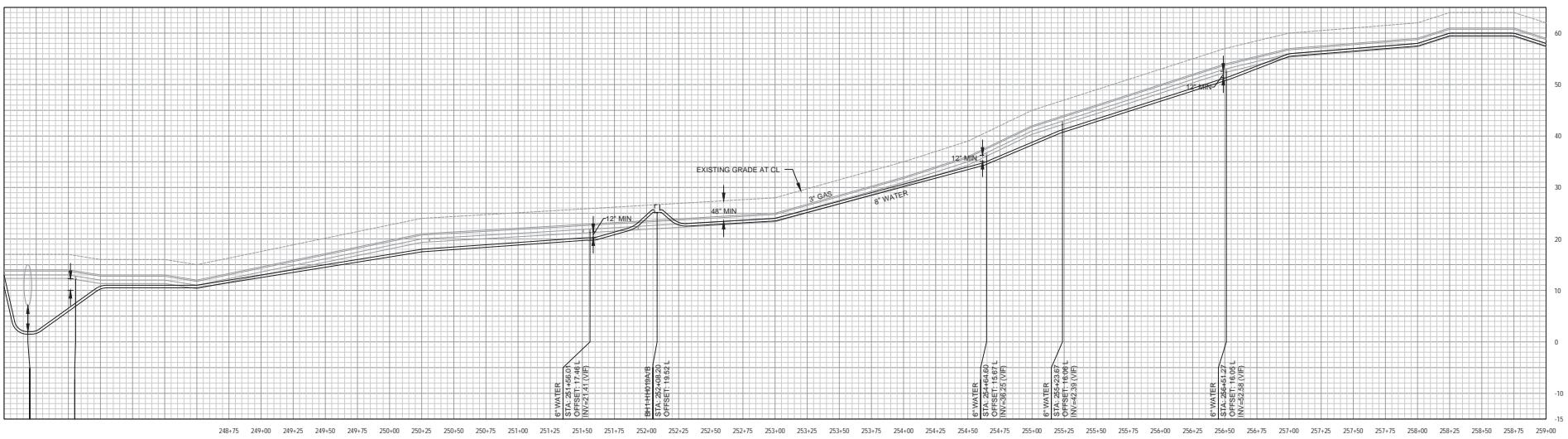


C-107

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



PLAN - BH1 STA: 247+00 TO STA: 259+00
SCALE: 1" = 40'



PROFILE VIEW - BH1 - STA 247+00 TO 259+00
SCALE: HOR. 1" = 40' VERT. 1" = 10'

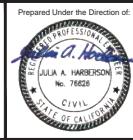
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| | JAH | FAV | JAH |
| | | | |

VERO
Fiber Networks

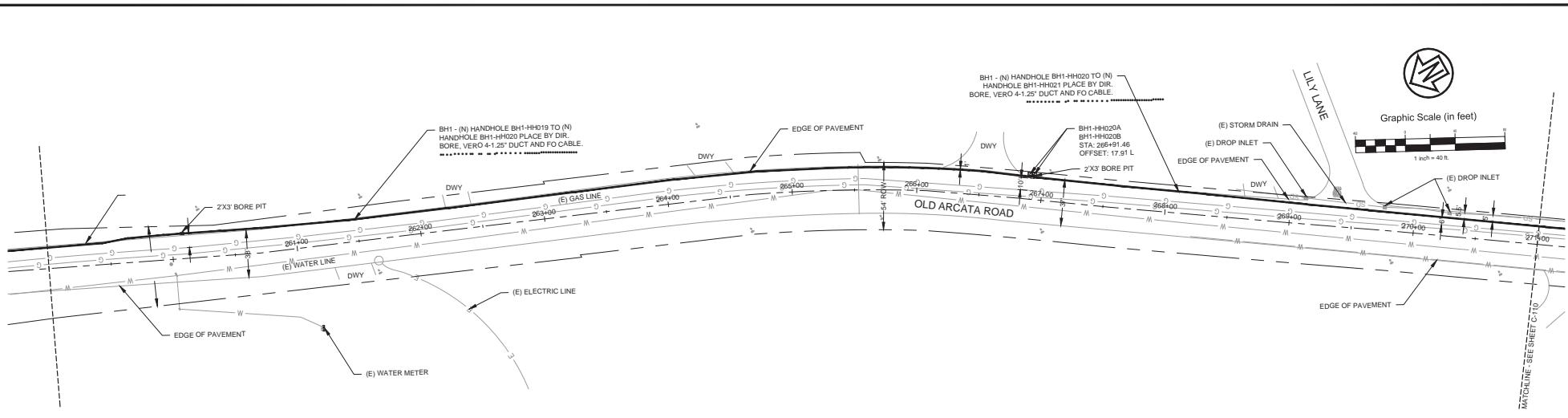
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Land Development Services | Construction Services | Environmental Services
Planning | Engineering | Construction Management
Site Selection | Land Development | Construction Management
Construction | Engineering | Environmental Services

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 247+00 TO STA: 259+00
VERO FIBER NETWORKS

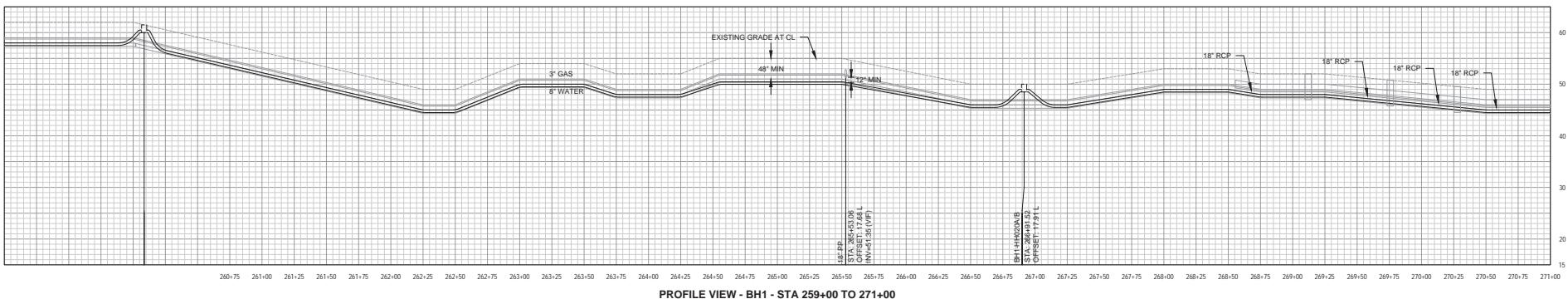


Prepared Under the Direction of:
Julia A. Harrington
Julia A. Harrington
No. 78628
CIVIL
Project Number: 1910140
Plan File: D-XXXXX
Sheet C-108
Scale: 1" = 40'
Date: 09/23/20
Page 29 of 51



PLAN - BH1 STA: 259+00 TO STA: 271+00

SCALE: 1" = 40'



| | Designed | Drawn | Checked |
|--|----------|-------|---------|
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| | JAH | FAV | JAH |

VERO
Fiber Networks

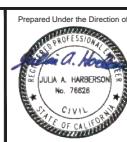
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental
Land Planning, Construction Management,
As-Is Surveying, Construction Monitoring
Project Management
Project Control
Quality Control
Construction

City
County
State

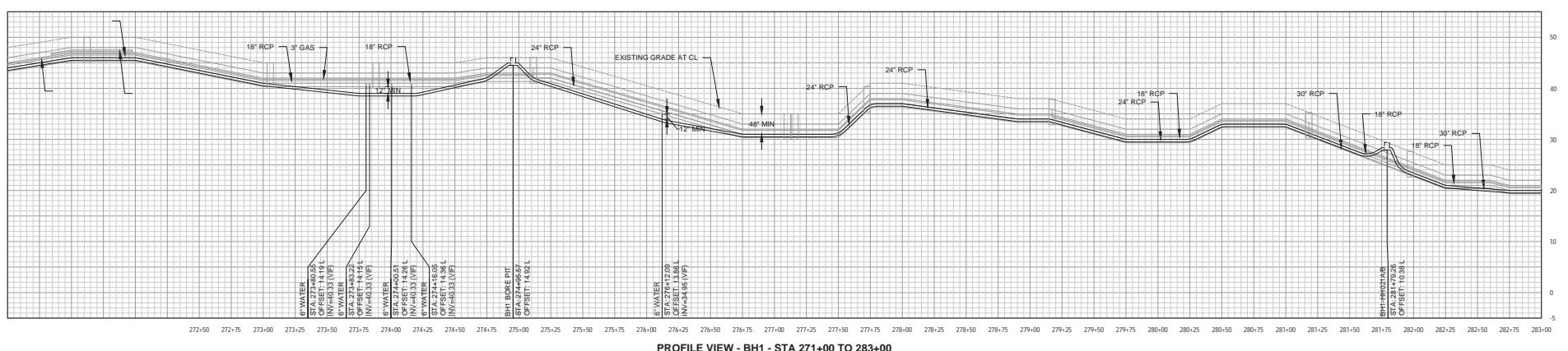
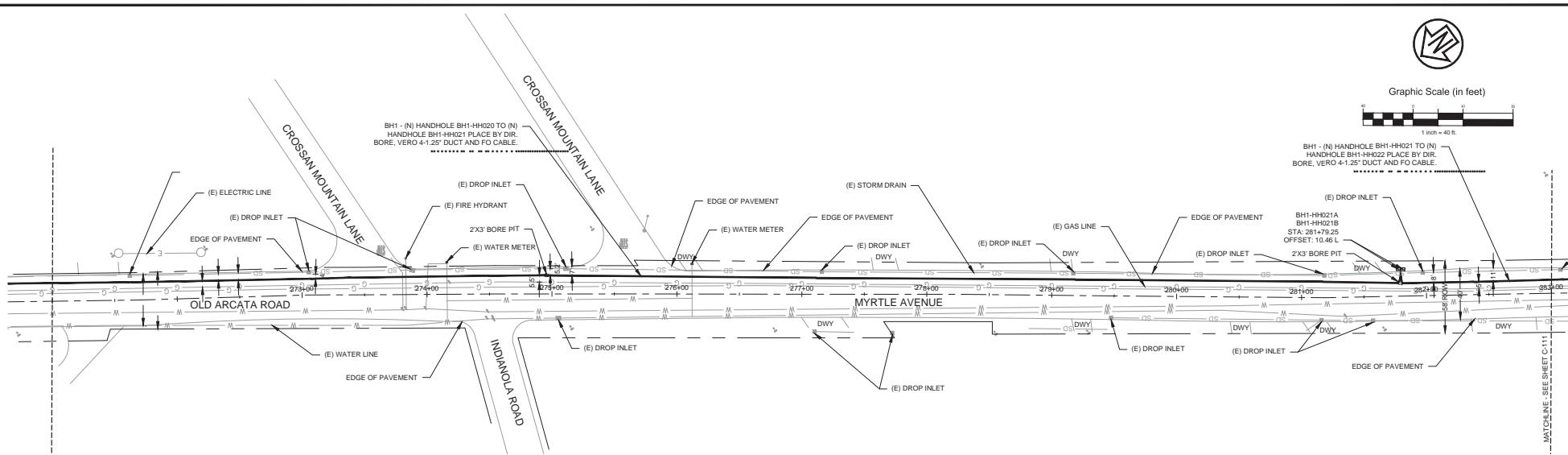
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 259+00 TO STA: 271+00
VERO FIBER NETWORKS



C-109

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



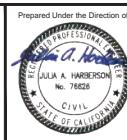
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering Services | Construction Management
Land Planning | Environmental Services
As-located Control
Surveying
Photogrammetry

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 271+00 TO STA: 283+00
VERO FIBER NETWORKS



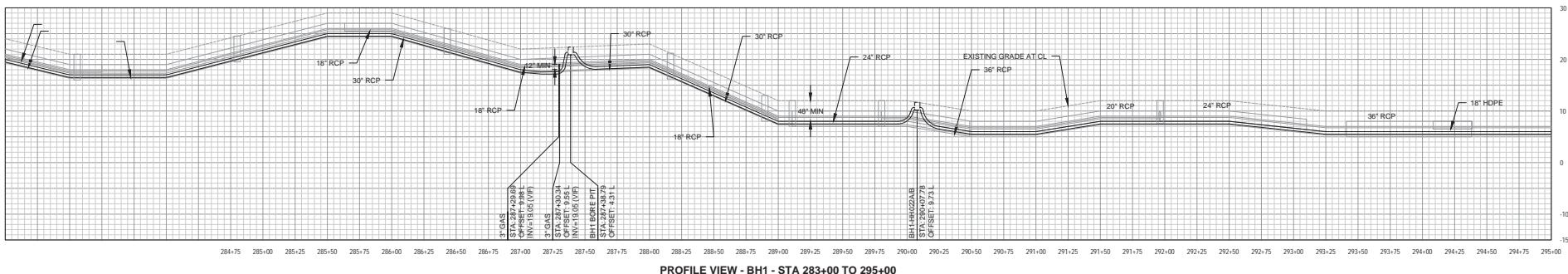
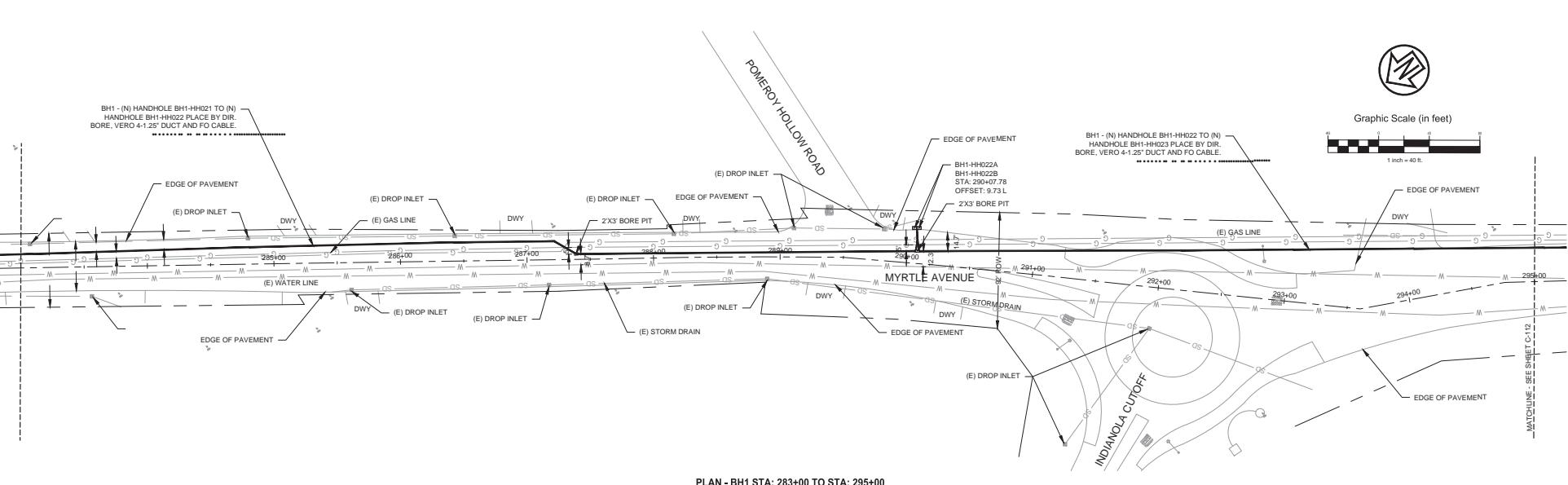
C-110

Scale: 1" = 40'

Date: 09/23/20

Project Number: 1910140

Plan File: D-XXXX



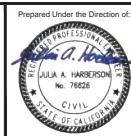
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

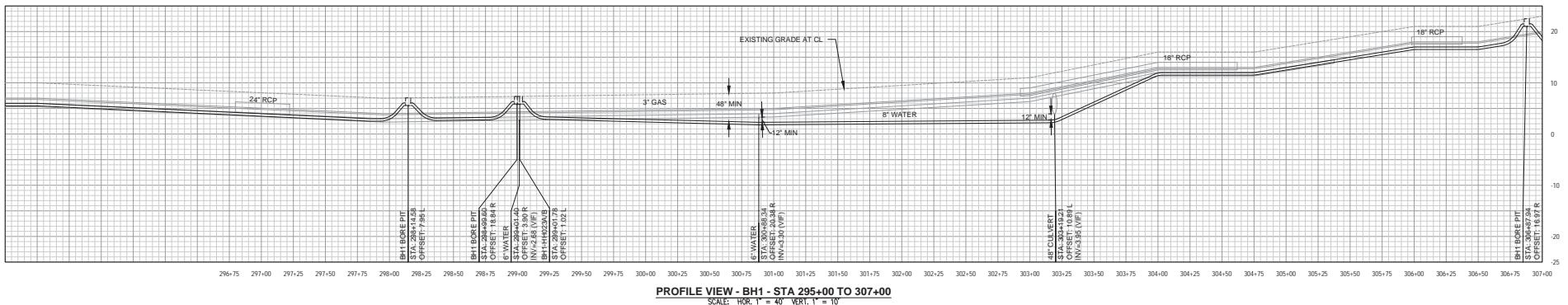
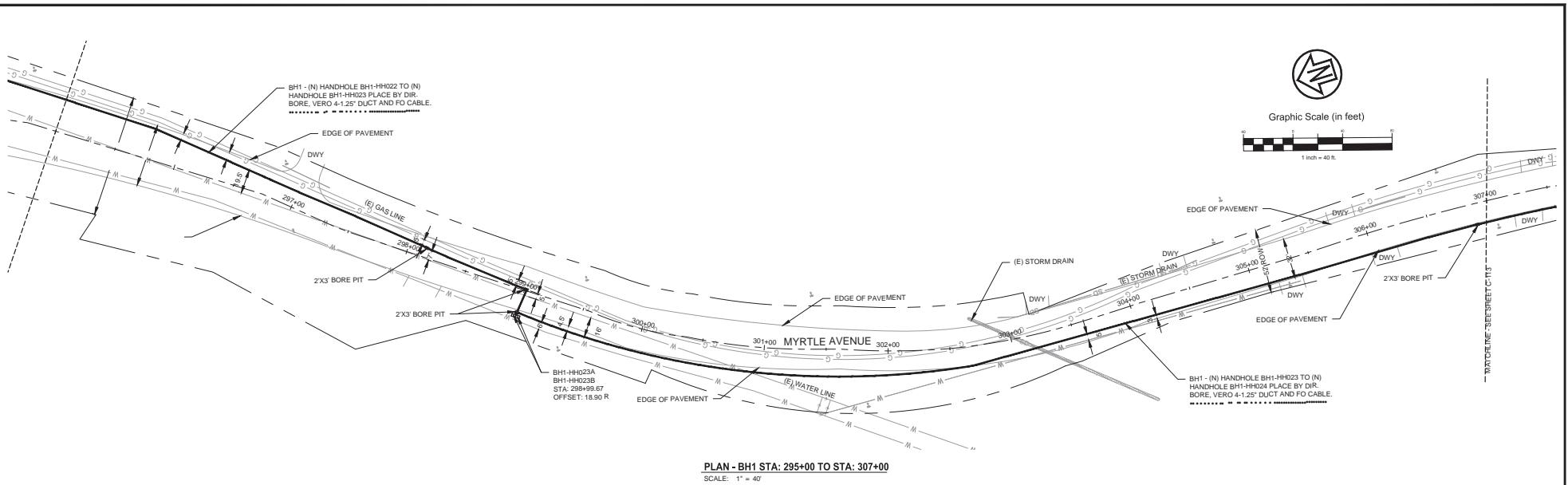
CSW/Stuber-Strack Engineering Group, Inc.
Architectural Design • Construction Management
Land Planning • Environmental Assessment
Utilities • Telecommunications
Structural Engineering
Mechanical Engineering
Electrical Engineering
Project Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 283+00 TO STA: 295+00
VERO FIBER NETWORKS



C-111

Prepared Under the Direction of:
Julia A. Harrison
No. 76528
CIVIL
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXXX



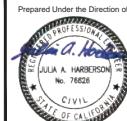
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|--|----------|-------|---------|
| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

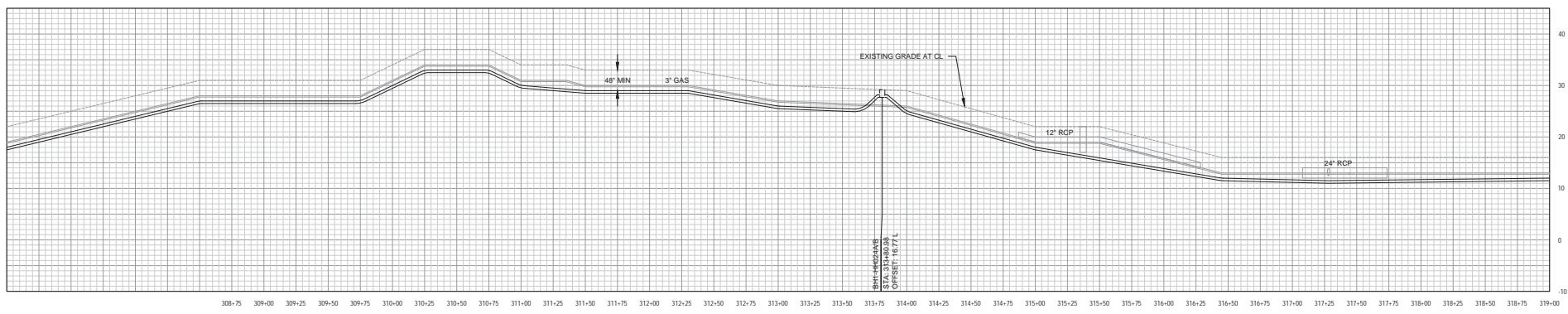
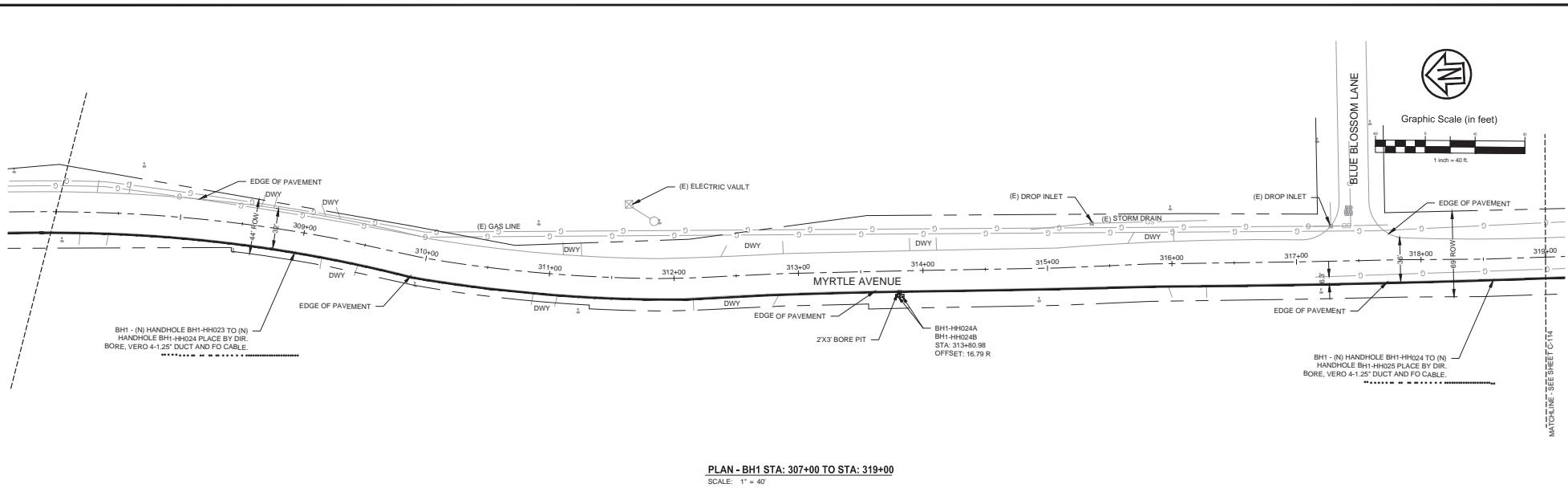
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental
and Land Surveying, Construction Management,
Land Planning, Construction Engineering,
As-Built Surveys, Construction Inspection
and Project Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 295+00 TO STA: 307+00
VERO FIBER NETWORKS



C-112

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



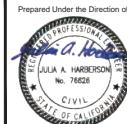
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

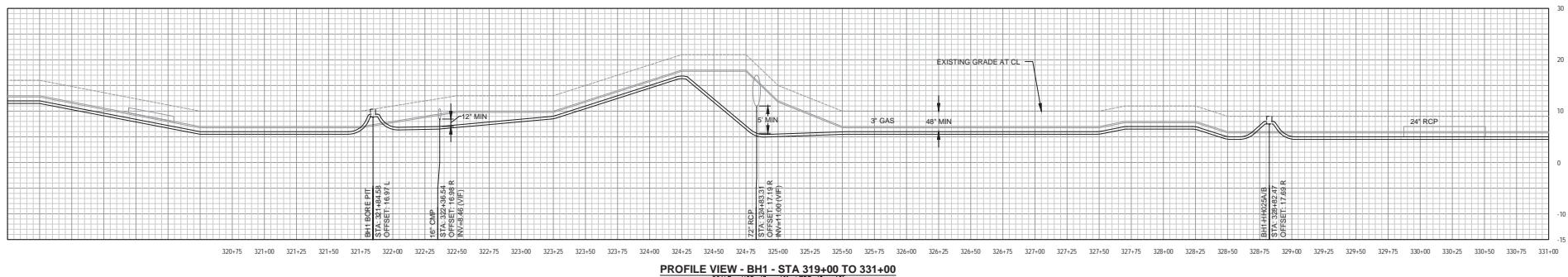
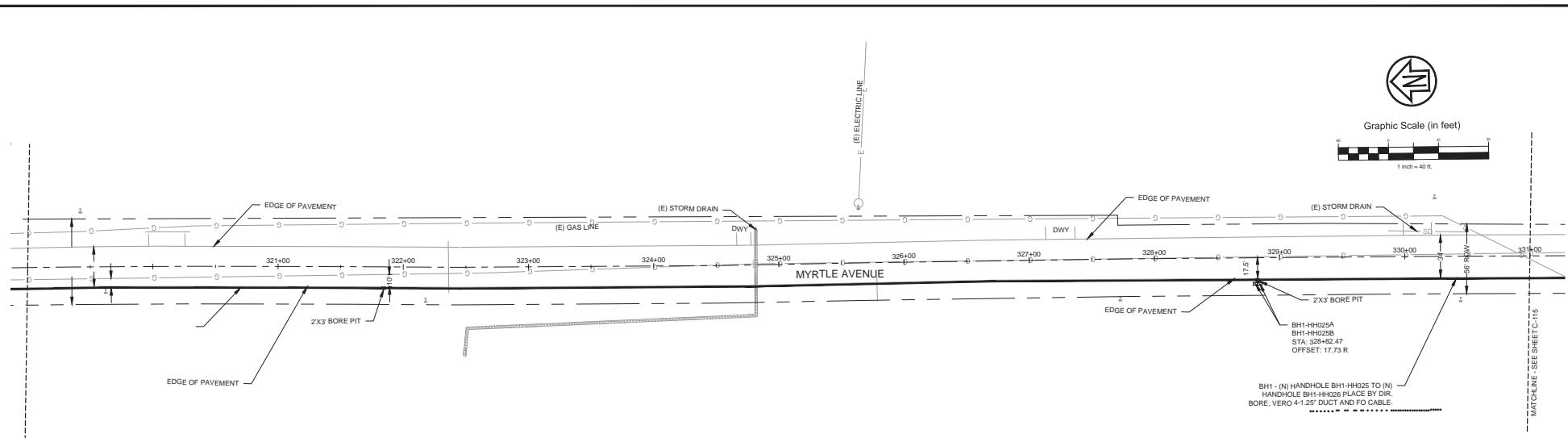
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental
Land Planning, Construction Management,
As-Constructed Documentation
North, California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 307+00 TO STA: 319+00
VERO FIBER NETWORKS



C-113

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Page 34 of 51



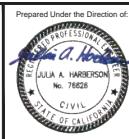
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

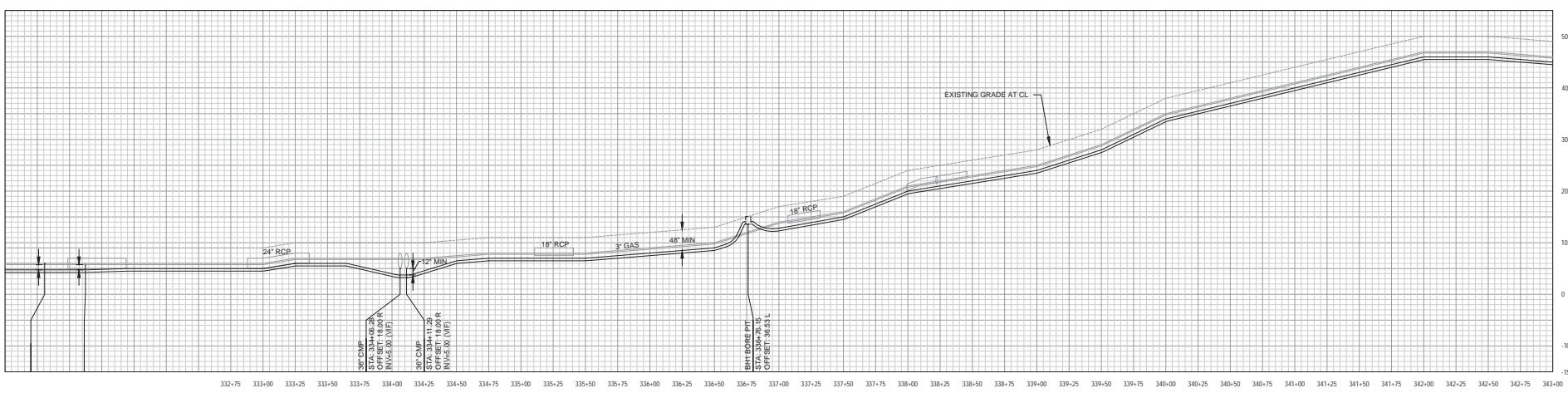
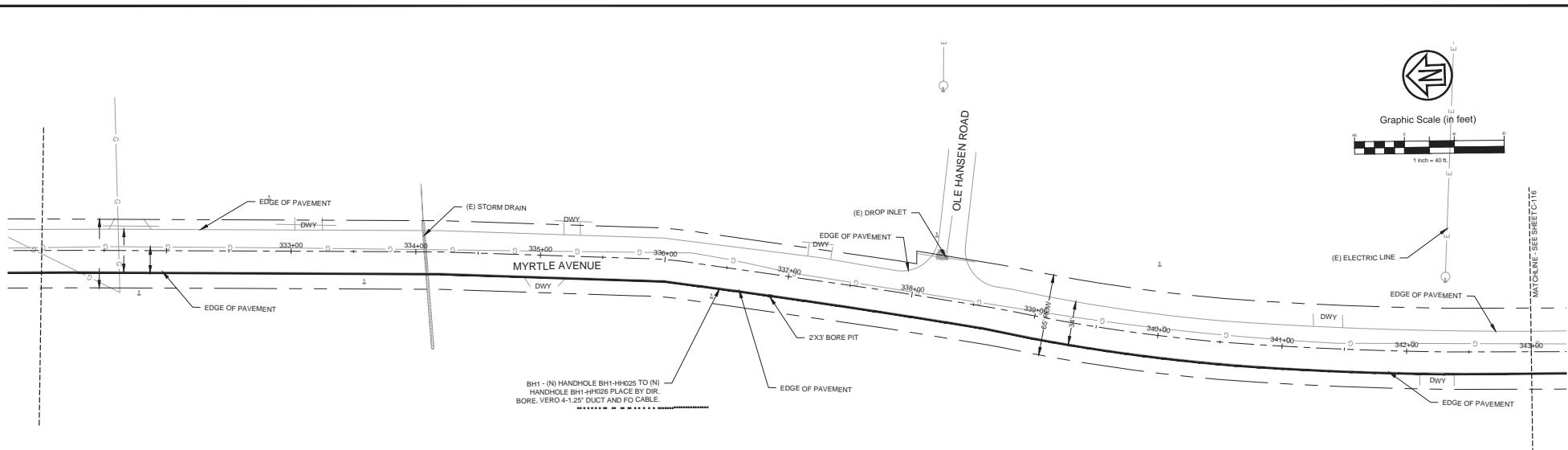
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering Services • Construction Management
Land Surveying • Geotechnical • Environmental
Structural Engineering • Water/Wastewater • Telecommunications

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 319+00 TO STA: 331+00
VERO FIBER NETWORKS



C-114

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Page 35 of 51



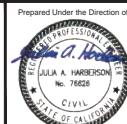
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|--|----------|-------|---------|
| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

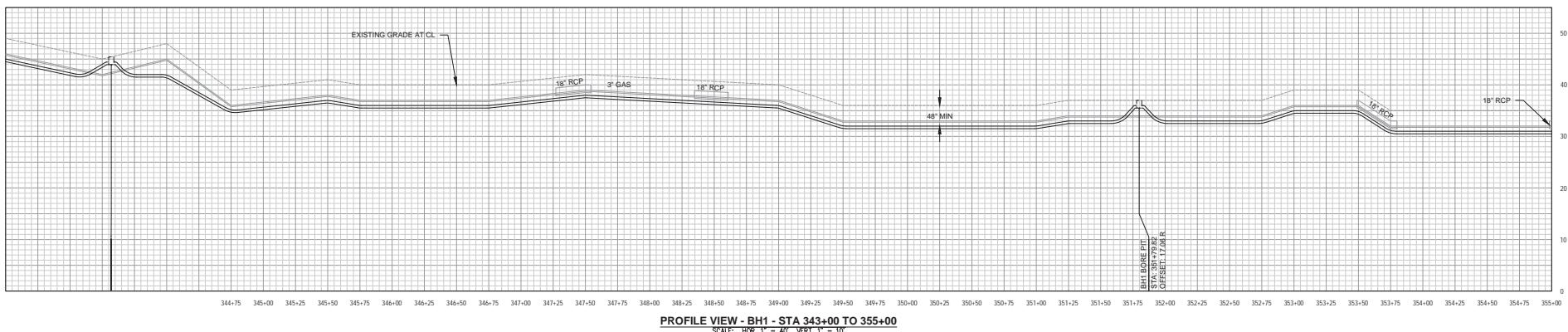
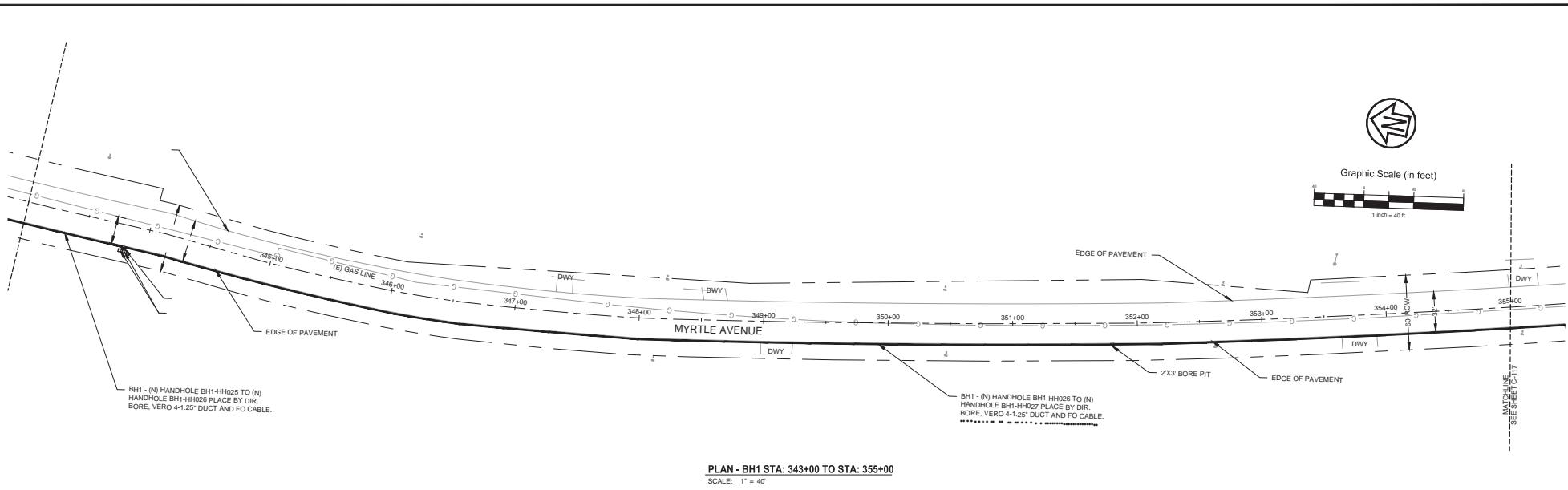
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Surveying & Mapping, Environmental
Land Planning, Construction Management
At-Lawyer Cost
Santa Cruz, California
415-255-1100
info@cswst.com

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 331+00 TO STA: 343+00
VERO FIBER NETWORKS



C-115

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



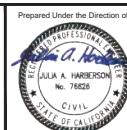
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| | JAH | FAV | JAH |

VERO
Fiber Networks

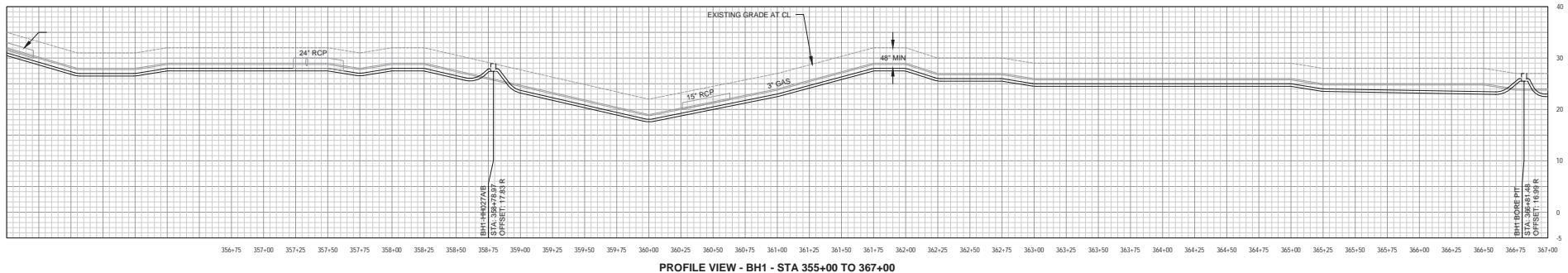
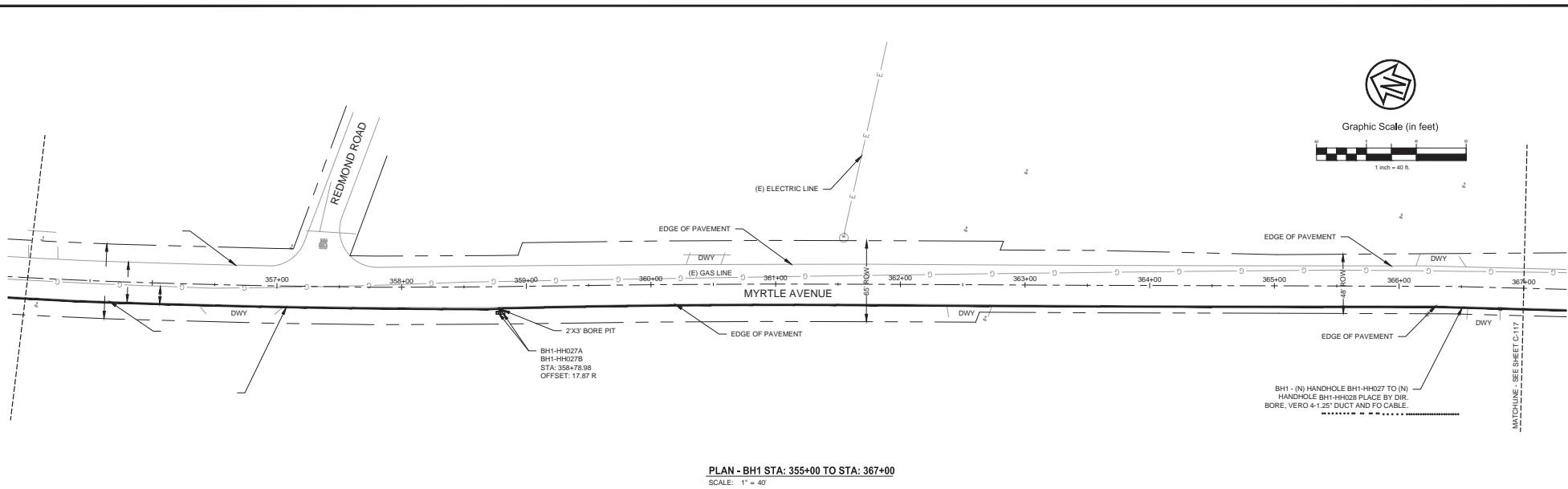
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Structural Engineering, Environmental Engineering,
Land Planning, Construction Management
At-Lawyer Court
Napa, California
Project No.: 116300000000000000

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 343+00 TO STA: 355+00
VERO FIBER NETWORKS



Sheet **C-116**
Prepared Under the Direction of:
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Page 37 of 51



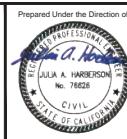
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| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

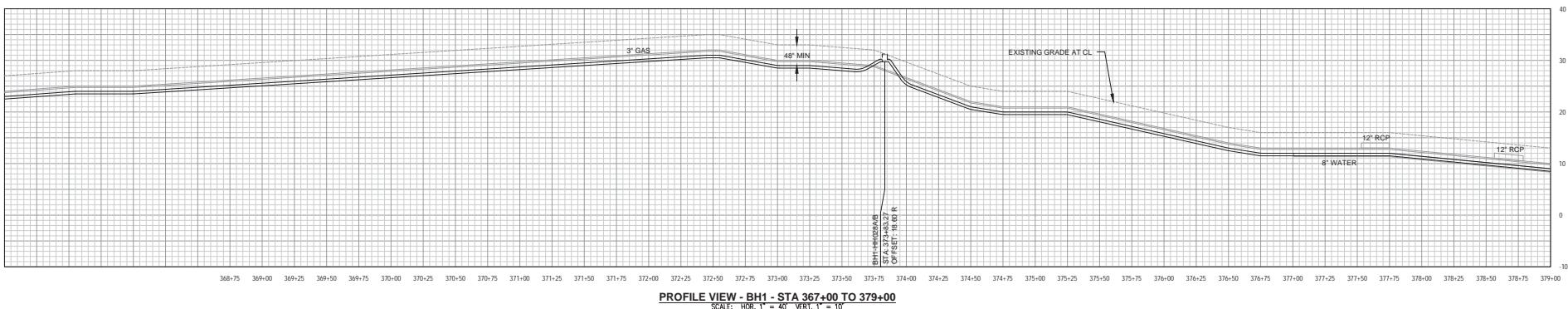
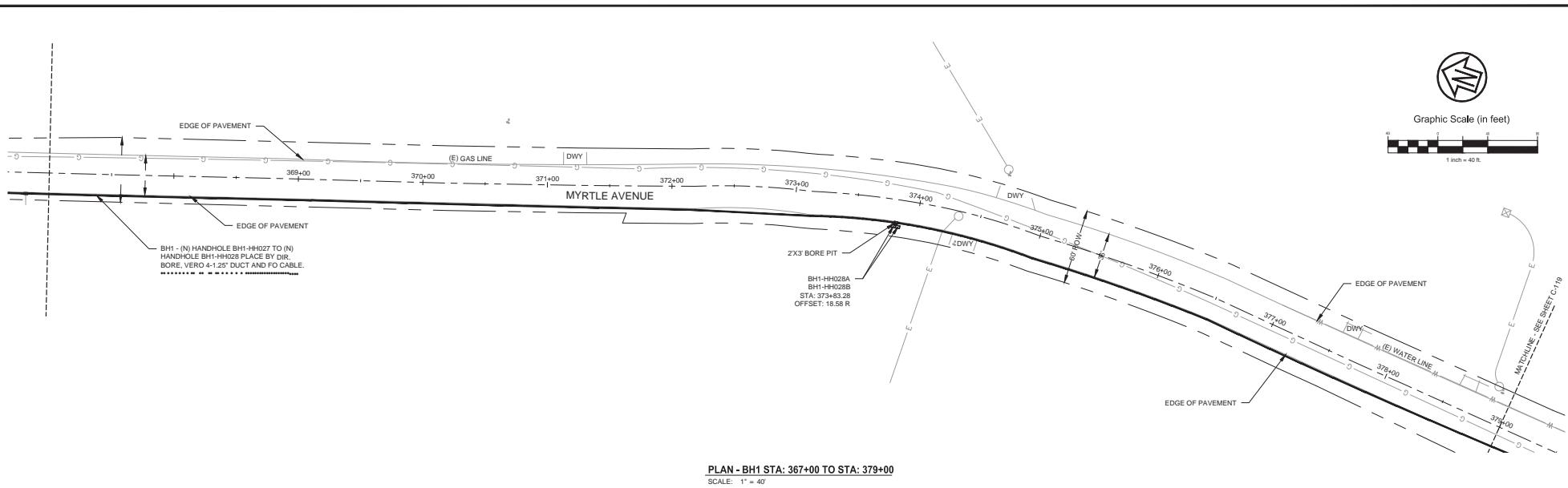
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
As-located Cost
Needs, Corrections
Implementation

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 355+00 TO STA: 367+00
VERO FIBER NETWORKS



C-117

Prepared Under the Direction of:
Julia A. Harrison
No. 76526
CIVIL
STATE OF CALIFORNIA
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



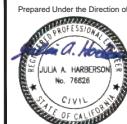
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

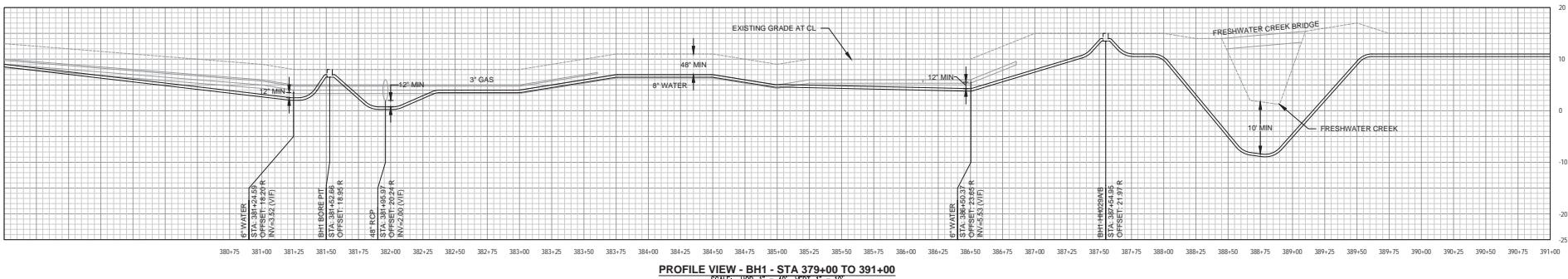
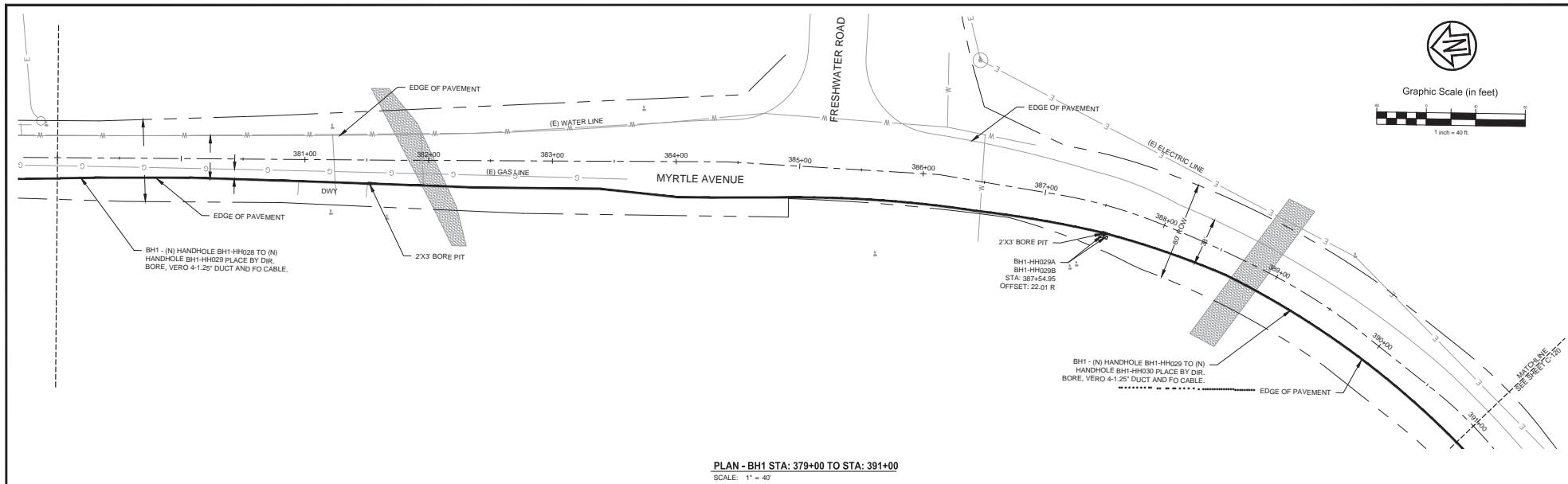
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering Services | Construction Management
Land Planning | Construction Management
As-located Control
Survey, CADD/CIVIL
Photogrammetry

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 367+00 TO STA: 379+00
VERO FIBER NETWORKS



C-118

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Scale: 1" = 40'
Page 39 of 51



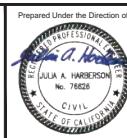
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|--|----------|-------|---------|
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

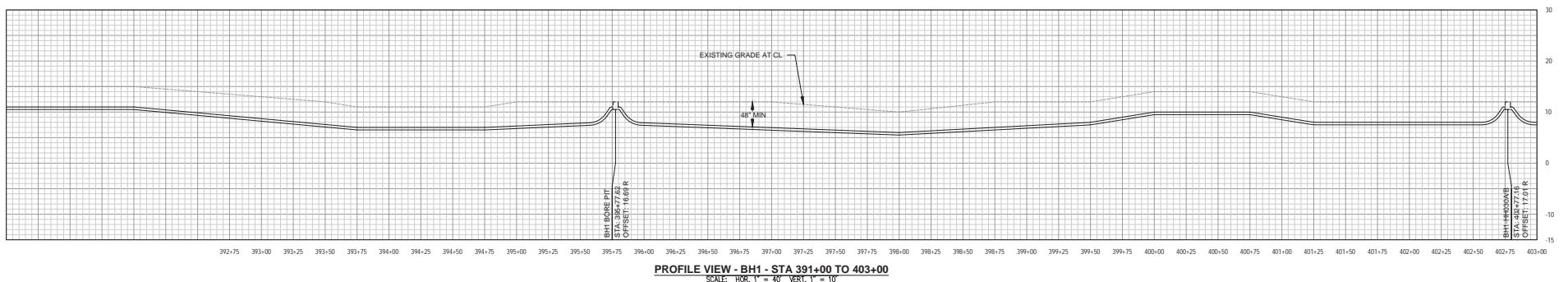
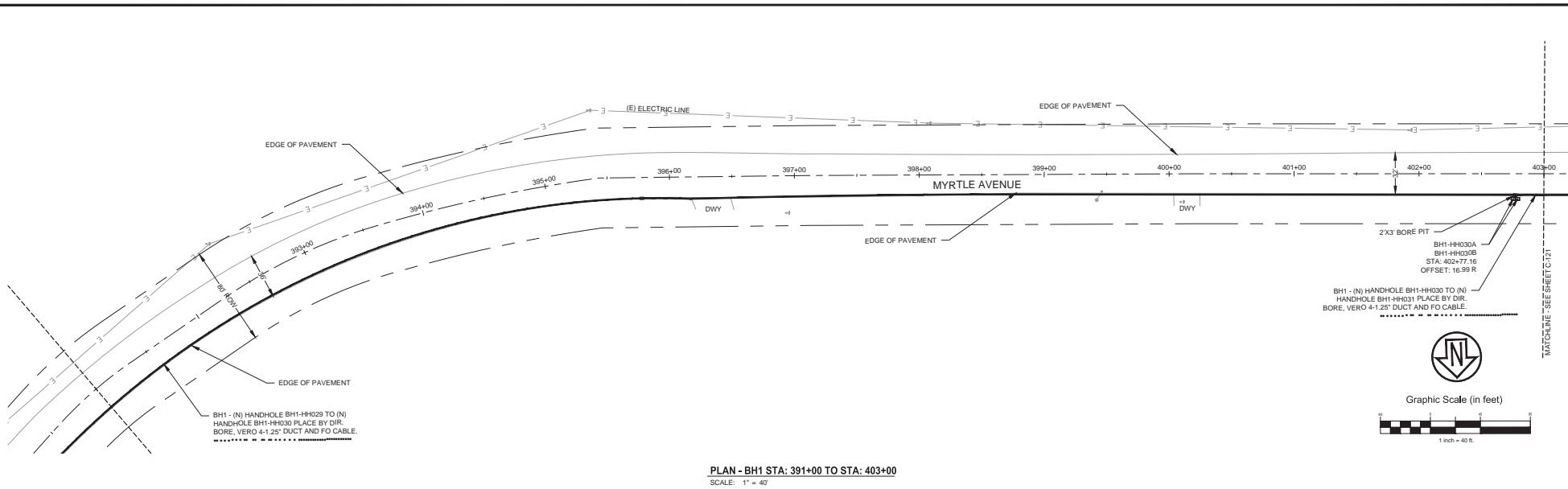
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental
Land Planning • Construction Management
Architectural • Geotechnical • Surveying
Project Management
Project Control
Tireless, Creative

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 379+00 TO STA: 391+00
VERO FIBER NETWORKS



C-119

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX
Scale: 1" = 40'
Page 40 of 51



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| | JAH | FAV | JAH |

VERO
Fiber Networks

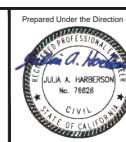
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering, Geotechnical, Structural, Environmental
Land Planning, Construction Management
At-Law Legal Counsel
Telecommunications

City
County
State

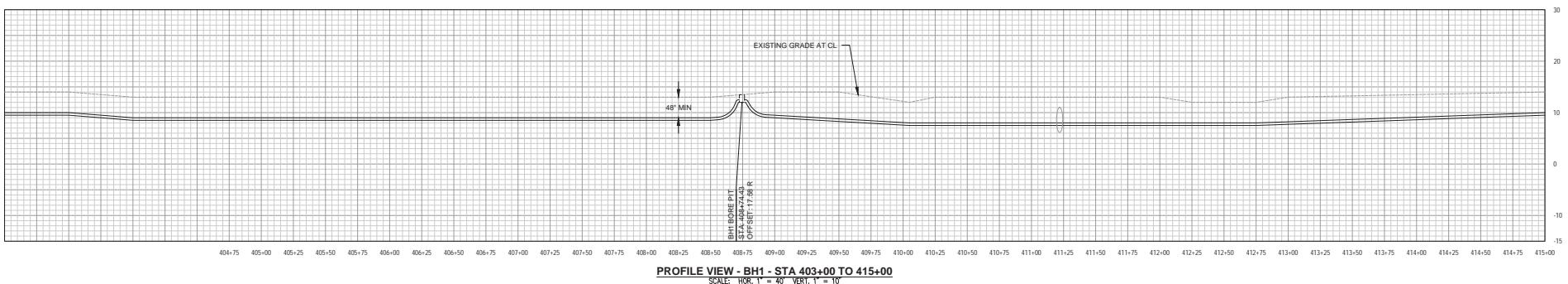
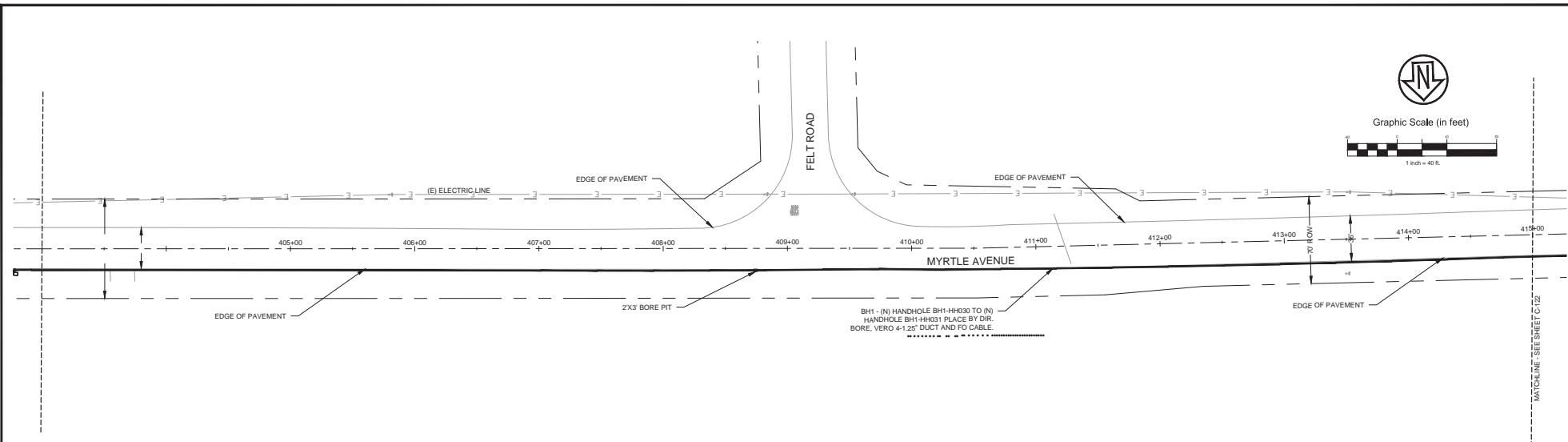
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 391+00 TO STA: 403+00
VERO FIBER NETWORKS



C-120

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



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| | JAH | FAV | JAH |

VERO
Fiber Networks

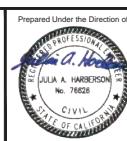
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Architectural Services • Civil Engineering • Environmental Services
Land Planning • Construction Management
Construction Cost Estimating • Project Management
Project Management
Project Management
Project Management

City
County
State

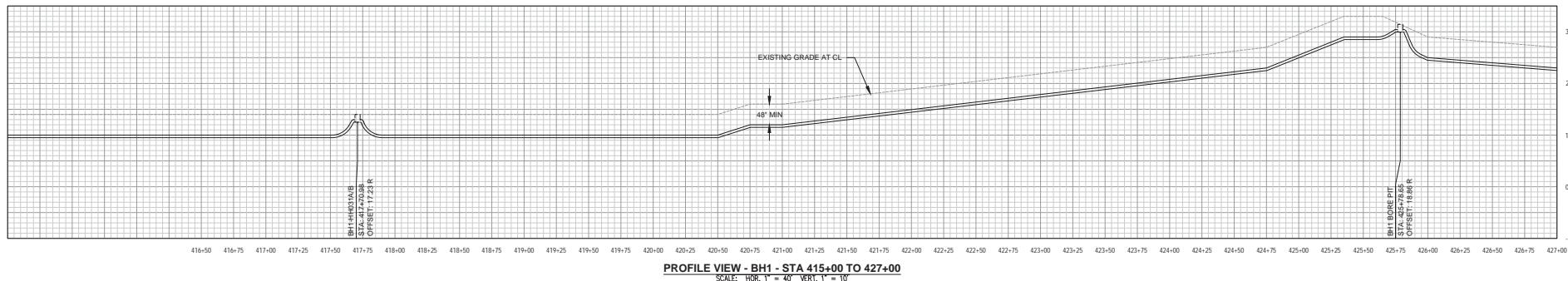
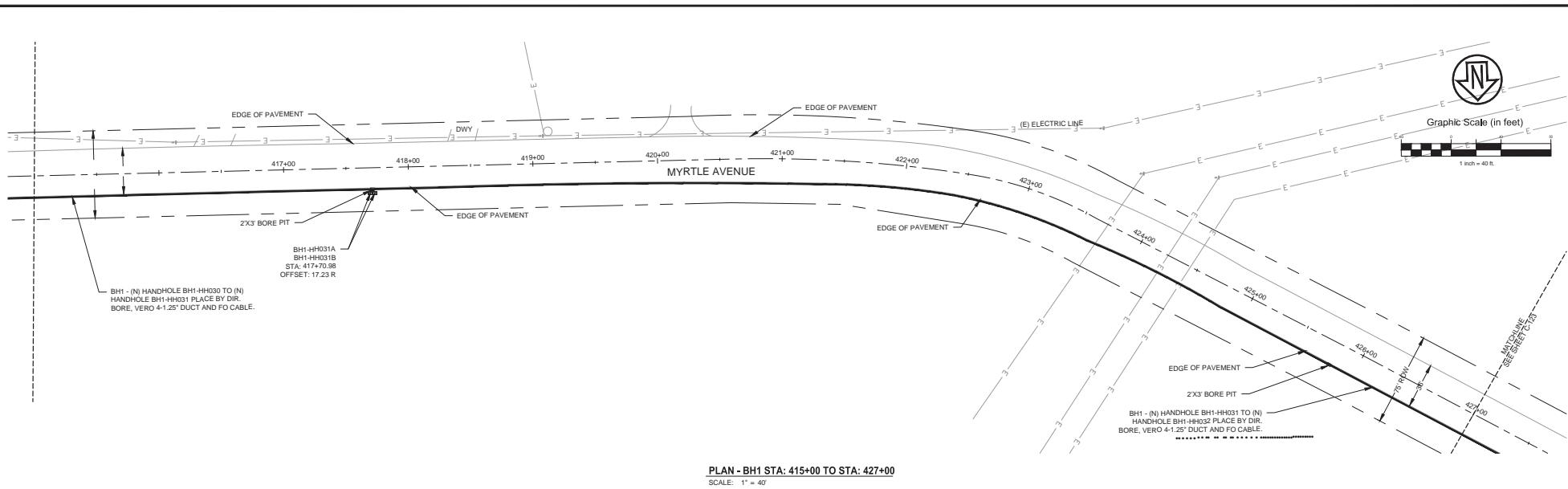
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 403+00 TO STA: 415+00
VERO FIBER NETWORKS



Sheet
C-121

Prepared Under the Direction of:
Julia A. Harrington
No. 76828
CIVIL
Project Number: 1910140
Plan File: D-XXXX
Scale: 1" = 40'
Date: 09/23/20
Page 42 of 51



| | Designed | Drawn | Checked |
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

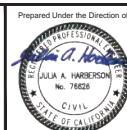
CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Architectural Services • Structural Services • Environmental
Land Planning • Construction Management
As-Is Surveying
Utilities, Civil Engineering
Project Management

City
County
State

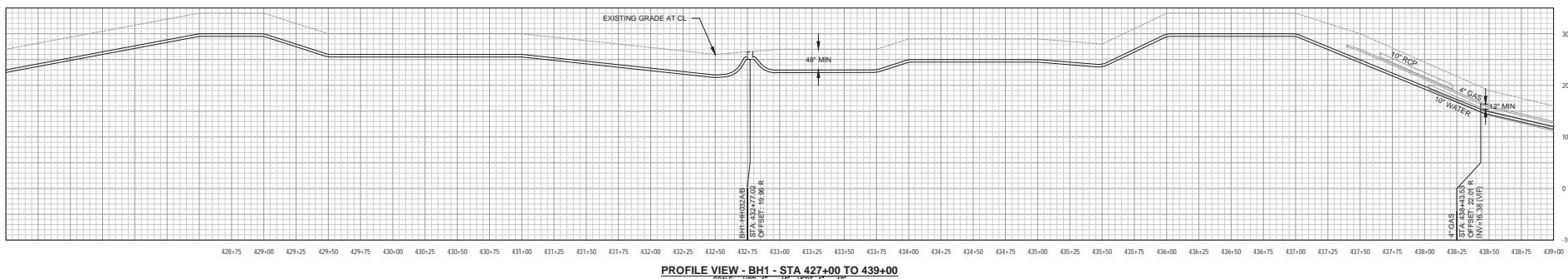
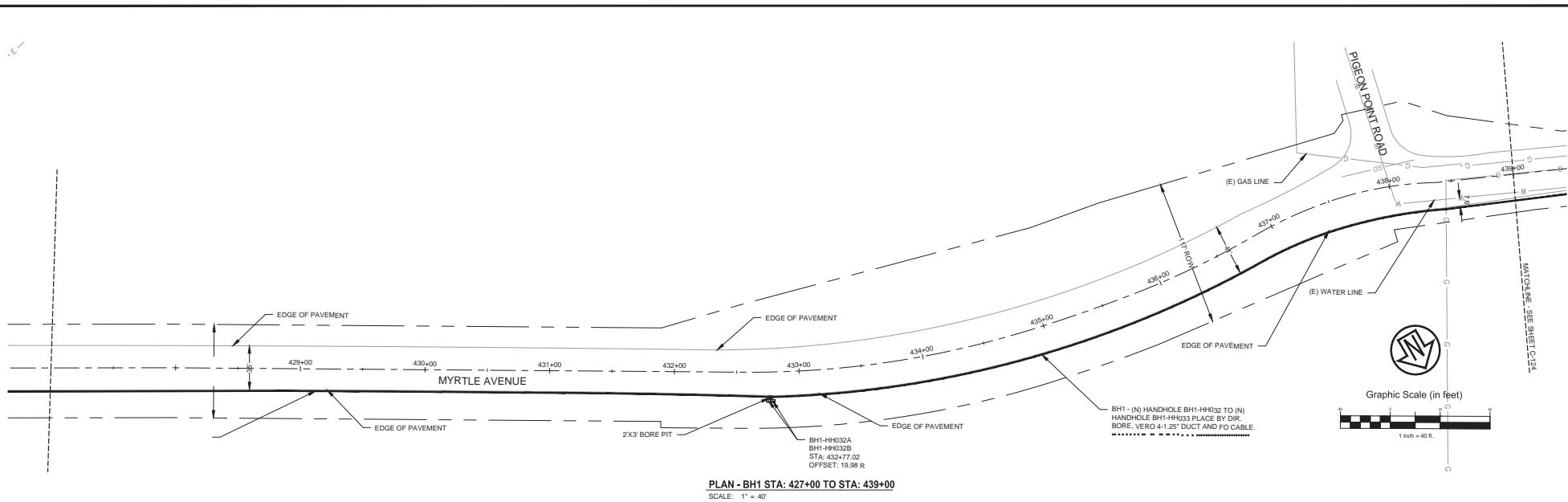
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 415+00 TO STA: 427+00
VERO FIBER NETWORKS



C-122

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



| | Designed | Drawn | Checked |
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| | | | |
| | JAH | FAV | JAH |

VERO
Fiber Networks

CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering | Surveying | Mapping | Environmental
Land Planning | Construction Management
411 Lassen Court
Redding, California
Phone: 530.244.1800

City
County
State

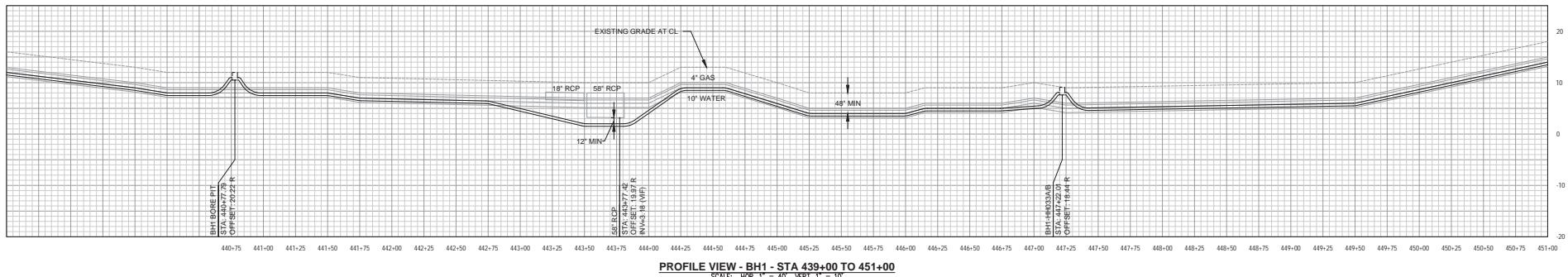
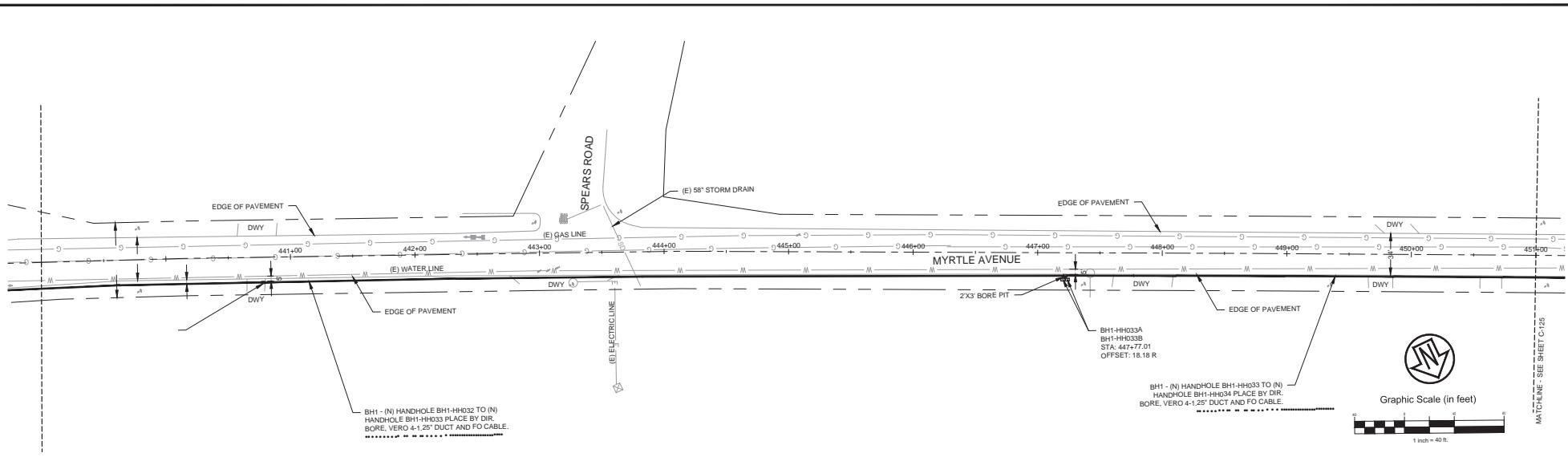
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 427+00 TO STA: 439+00
VERO FIBER NETWORKS

Prepared Under the Direction of:

REGISTRATION NUMBER: No. 76828
CIVIL
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX

C-123
Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX



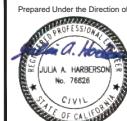
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VERO
Fiber Networks

CSW | ST2

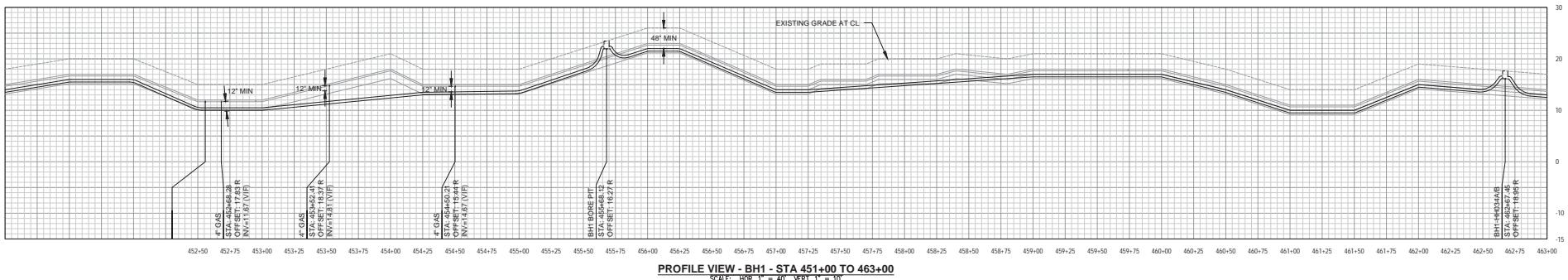
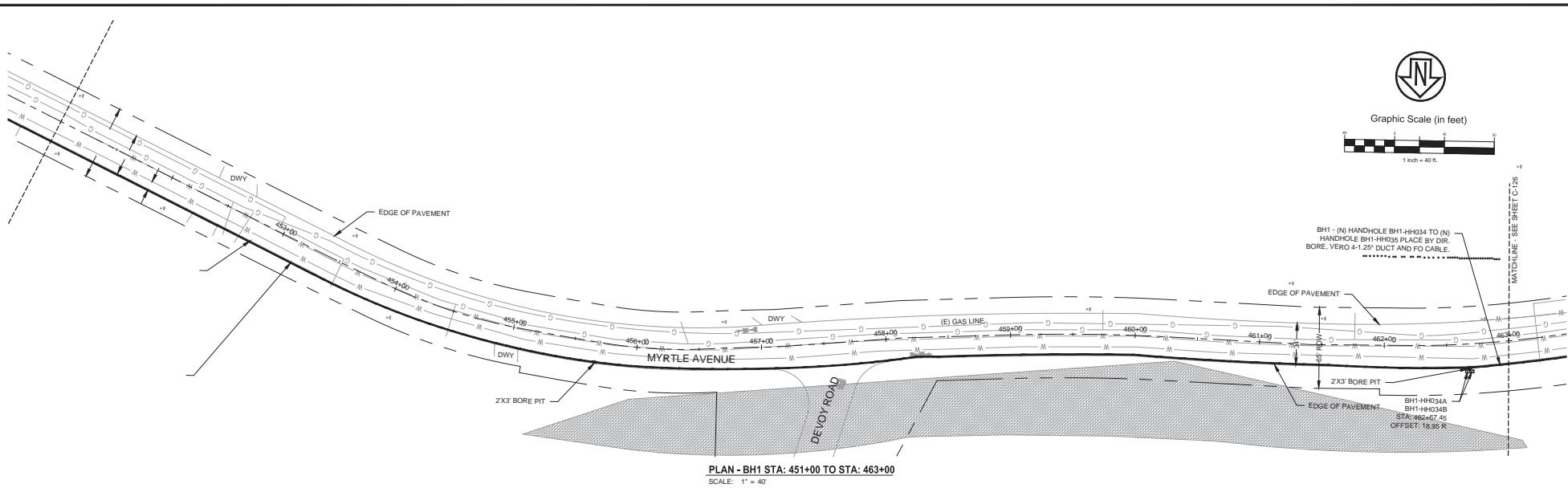
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Civil Engineering, Surveying, Land Planning, Construction Management,
Environmental Engineering, Geotechnical Engineering, Project Management
Project Lead: **Julia A. Harrison**
Project Manager: **Julia A. Harrison**
Project Number: **1910140**
Plan File: **D-XXXX**

Prepared Under the Direction of:
**ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 439+00 TO STA: 451+00
VERO FIBER NETWORKS**



C-124

Scale: 1" = 40'
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Project Number: 1910140
Plan File: D-XXXX



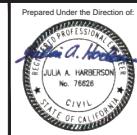
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VERO
Fiber Networks

CSW | ST2

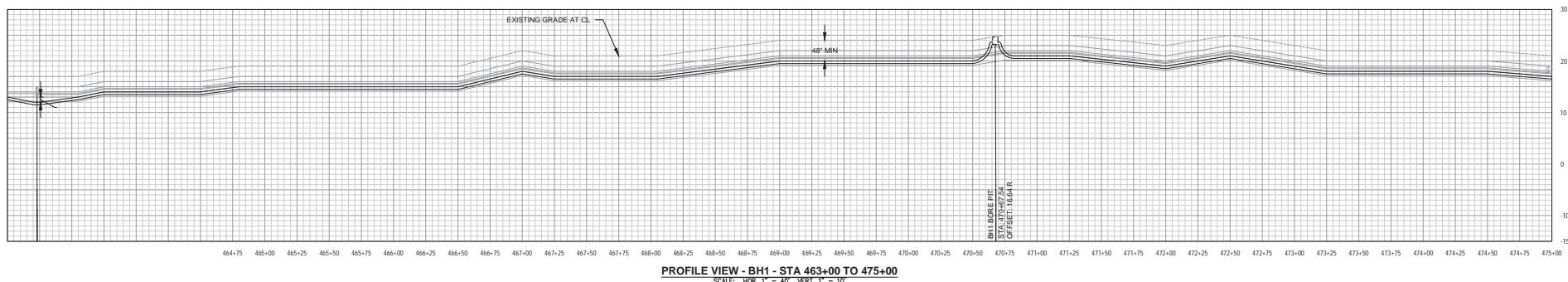
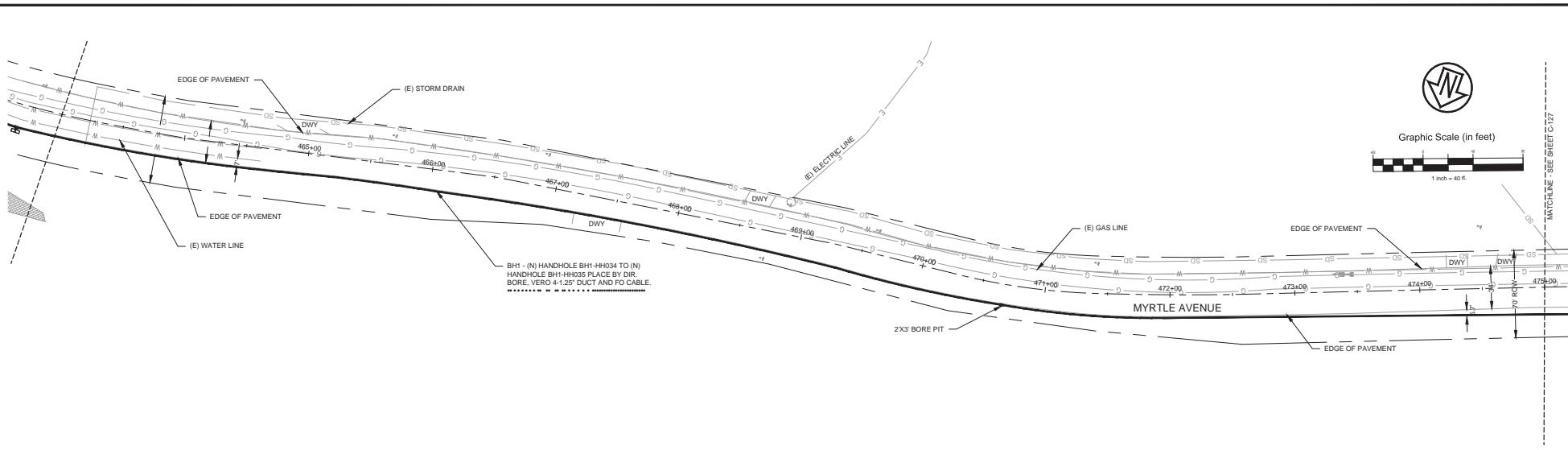
CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering • Structural Engineering • Environmental Engineering
Land Surveying • Construction Management
Site Selection • Construction Documentation
Architectural • Geotechnical • Environmental
Project Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 451+00 TO STA: 463+00
VERO FIBER NETWORKS



C-125

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| Prepared Under the Direction of: | Julia A. Harrison No. 76828 | Sheet: |
| Scale: | 1" = 40' | C-125 |
| Date: | 09/23/20 | |
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| Plan File: | D-XXXX | |



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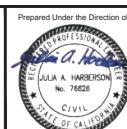
CSW|ST2

CSW/Stuber-Strack Engineering Group, Inc.
Land Development Services • Construction Management
Land Planning • Construction Management
As-located Control
Surveying
Instrumentation

City
County
State

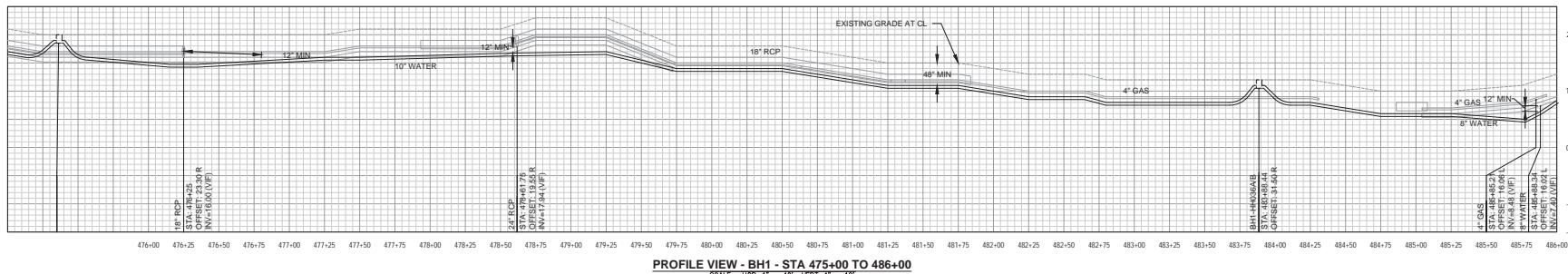
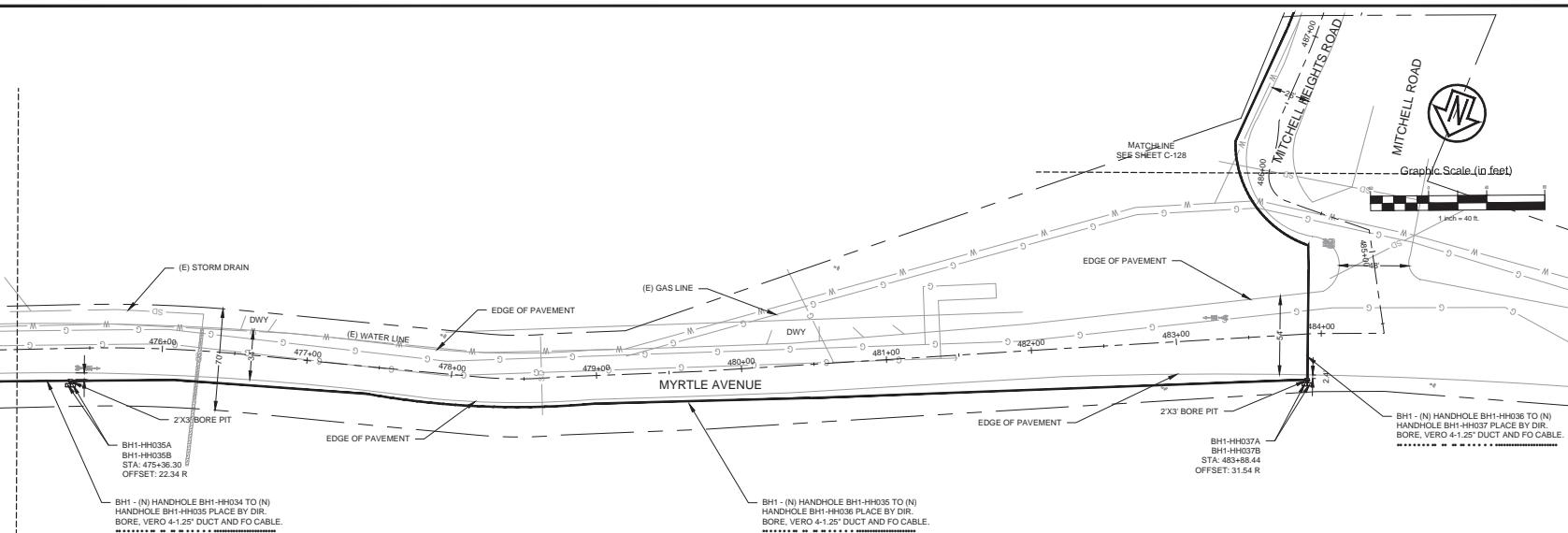
Humboldt
California

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 463+00 TO STA: 475+00
VERO FIBER NETWORKS



C-126

Prepared Under the Direction of:
Julia A. Harrison
No. 76828
CIVIL
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Page 47 of 51



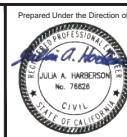
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VERO
Fiber Networks

CSW | ST2

CSW/Stuber-Strack Engineering Group, Inc.
Architectural Services • Structural Services • Environmental
Land Planning • Construction Management
As-Is Surveying
Neon, CRVNG

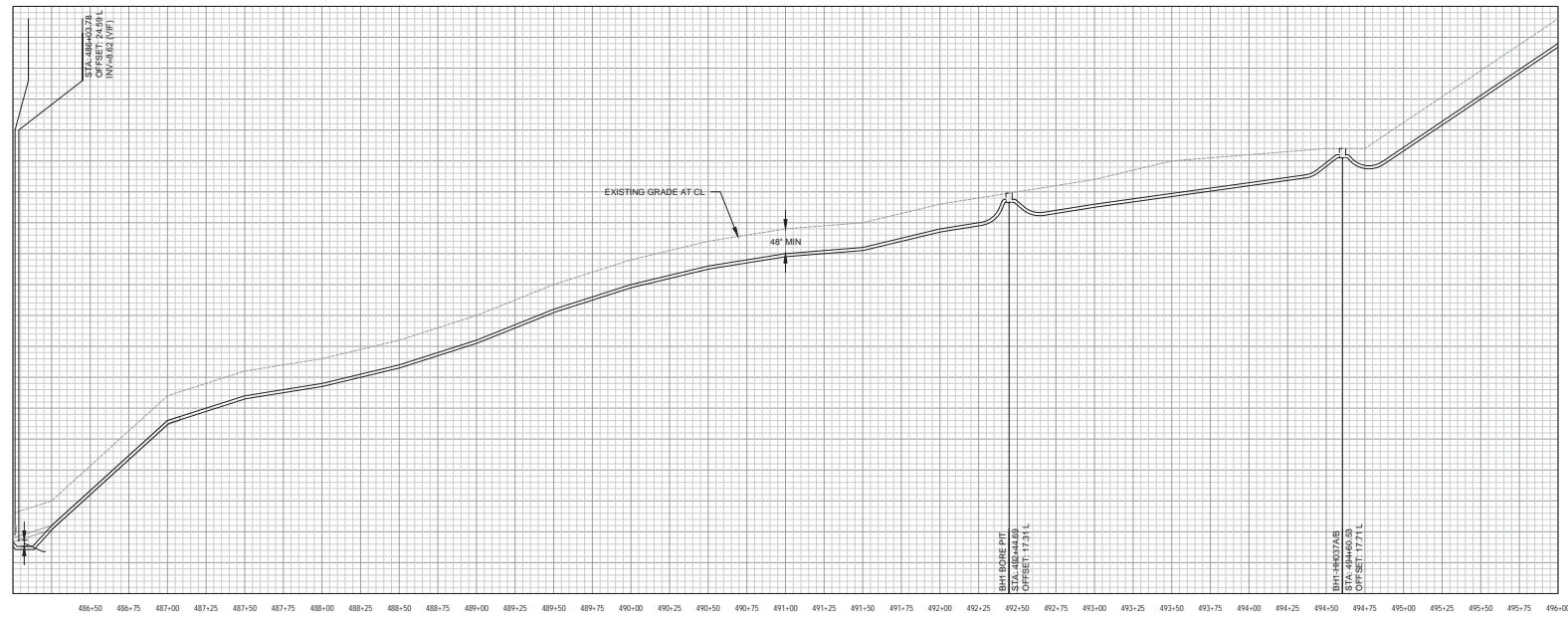
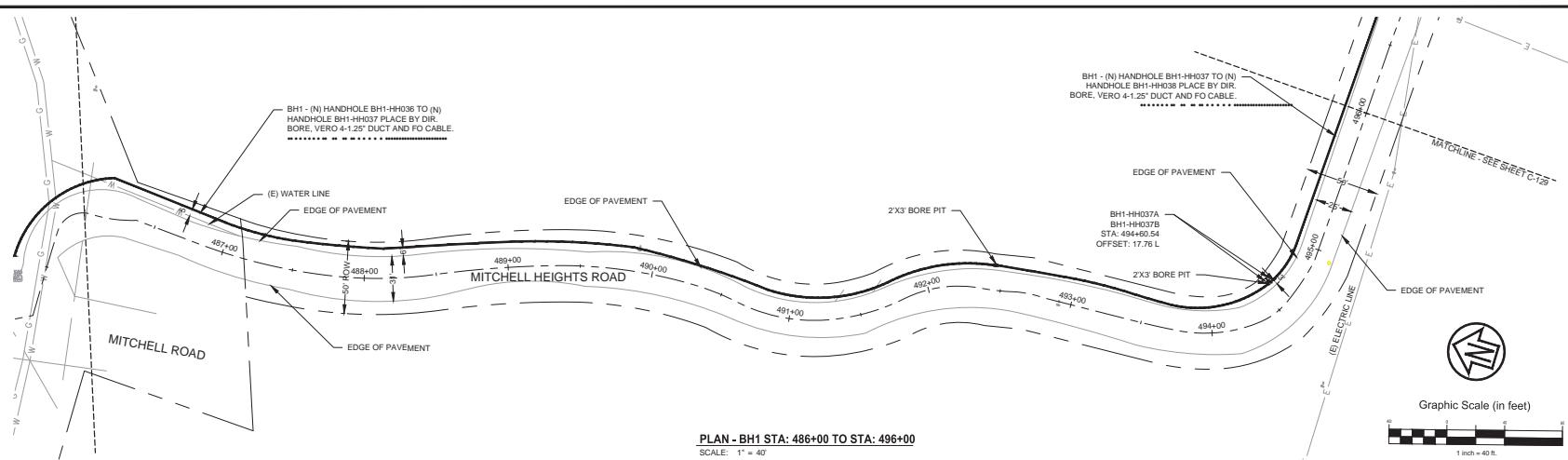
ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 475+00 TO STA: 486+00
VERO FIBER NETWORKS



C-127

Scale: 1" = 40'
Date: 09/23/20
Project Number: 1910140
Plan File: D-XXXX

Page 48 of 51



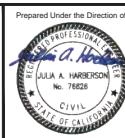
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VERO
Fiber Networks

CSW | ST2

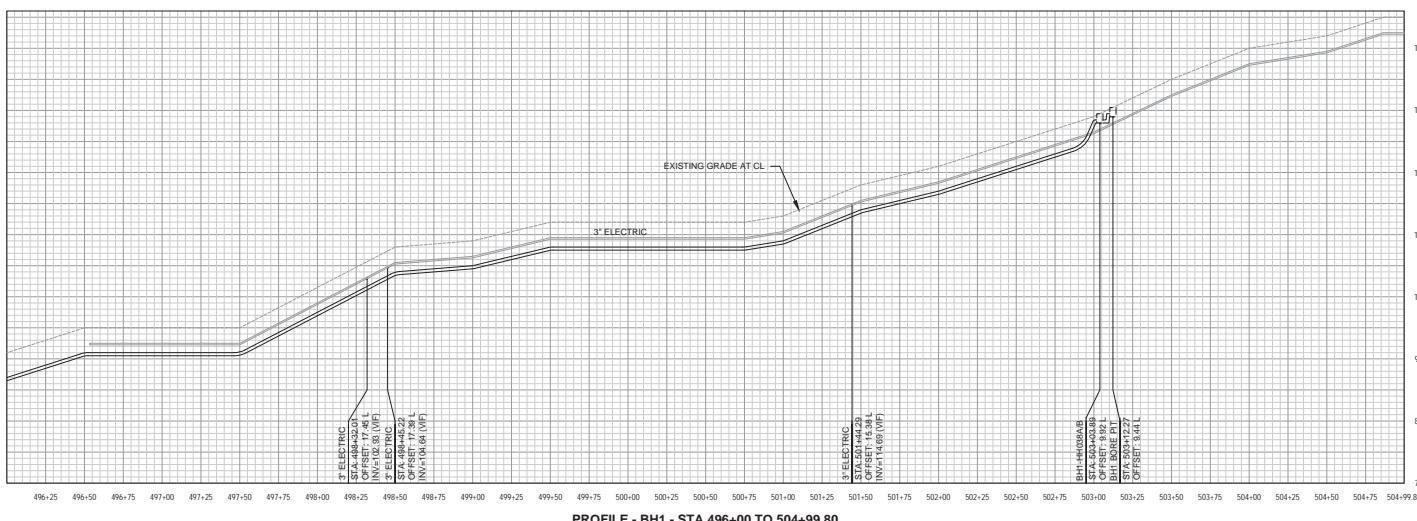
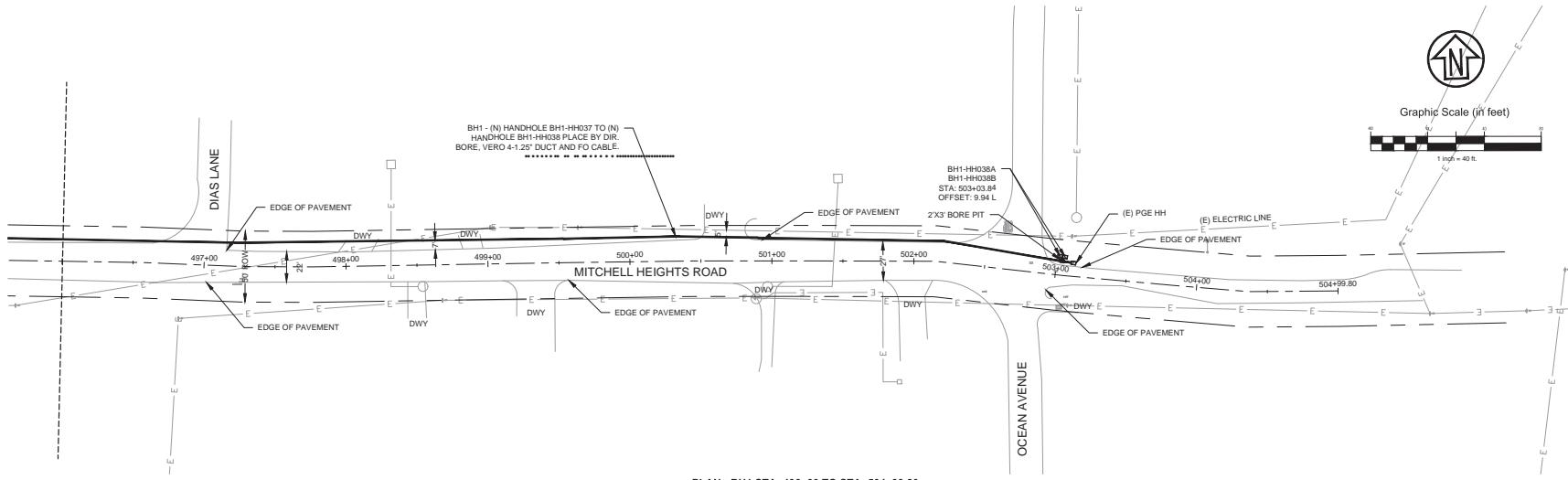
CSW/Stuber-Strack Engineering Group, Inc.
Architectural Design • Construction Management
Land Planning • Environmental Consulting
Civil Engineering
Structural Engineering
Mechanical Engineering
Project Management

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 486+00 TO STA: 496+00
VERO FIBER NETWORKS



C-128

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Project Number: 1910140
Plan File: D-XXXX



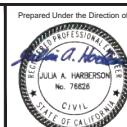
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VERO
Fiber Networks

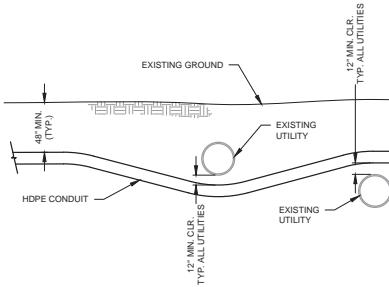
CSW|ST2

CSW/Stuber-Strack Engineering Group, Inc.
Civil Engineering | Surveying | Geotechnical | Environmental
Land Planning | Construction Management
As-located Control
Networks | CIVSIM

ARCATA/EUREKA FIBER PROJECT
CONDUIT LAYOUT PLAN & PROFILE -
STA: 496+00 TO STA: 504+99.80
VERO FIBER NETWORKS

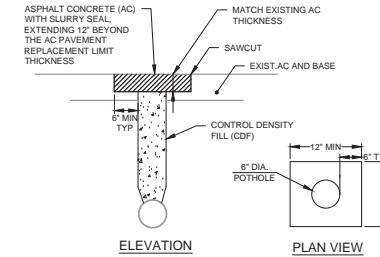


Sheet C-129
Prepared Under the Direction of:
Julia A. Harrison
No. 76528
CIVIL
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Page 50 of 51



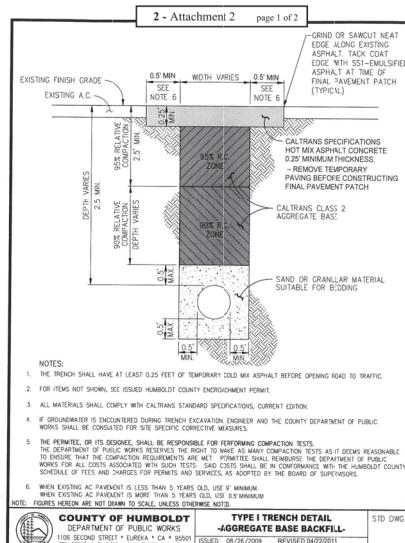
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SCALE: 1" = 5'



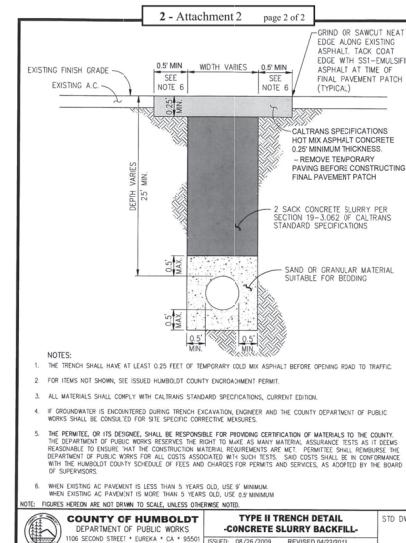
B TYPICAL POTHOLE REPAIR

SCALE: 1" = 5'



C TYPE I TRENCH DETAIL

SCALE: N.T.S.



D TYPE II TRENCH DETAIL

SCALE: N.T.S.

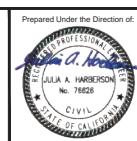
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Civil Engineering • Structural Engineering • Environmental Engineering
Land Planning • Construction Management
As-Is Survey
Neonis, CADD
Photogrammetry

ARCATA/EUREKA FIBER PROJECT
CONSTRUCTION DETAILS
VERO FIBER NETWORKS

Prepared Under the Direction of:

Julia A. Harrison
No. 78628
CIVIL
STATE OF CALIFORNIA
RECOGNIZED PROFESSIONAL ENGINEER
Project Number: 1910140
Plan File: D-XXXXX
Scale: 1" = 40'
Date: 09/23/20
Sheet C-501
Page 51 of 51

ARCATA/EUREKA FIBER PROJECT BH1

HORIZONTAL DIRECTIONAL DRILL CONTINGENCY PLAN

Humboldt County, California

December 2020

Prepared By



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415.533.1864
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Prepared For



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Contractor



Steppen Beecher
916.515.7698
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EXHIBIT 6
CDP 1-20-0559
(Vero Fiber Networks, LLC)
HDD CONTINGENCY PLAN
(page 1 of 12)

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APPENDICES

Appendix A: Inspection Forms

1-INTRODUCTION

This Horizontal Directional Drill Contingency Plan (Plan) discusses how Vero Fiber Networks and its contractors will implement procedures to minimize impacts from an inadvertent release during horizontal directional drilling (HDD) during construction of the Arcata/Eureka Fiber Project BH1 (Project). The Project involves the installation of four (4) 1.5 conduit in BH1 along approximately 9.5 miles of public ROW between Arcata and Eureka in Humboldt County. These conduits will house fiber optic cables.

The project must cross Jacoby Creek and Freshwater Creek on the east end of Arcata Bay. To avoid impacting environmental resources, the project will install the conduits below the slough using the HDD method.

This project requires approval from the California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement (SAA) as well as a State of California Department of Transportation encroachment permit.

2-OBJECTIVES

This Plan has been prepared to provide methods and procedures that will minimize the impacts associated with the HDD activities. The HDD practices and construction methods presented in this Plan are intended to accomplish the following objectives:

- To avoid direct impacts to creek crossings during the rainy season using HDD techniques and in a manner that does not result in sediment-laden discharge or hazardous materials release into waters.
- To address procedures for containing an inadvertent release of drilling fluid (frac-out) during HDD activities.
- To coordinate HDD activities with the CDFW in accordance with the Section 1602 SAA.

3-BEST MANAGEMENT PRACTICES

The contractor will implement several Best Management Practices (BMP) to protect the slough including:

1. Site preparation shall begin no more than 10 days prior to initiating horizontal bores to reduce the time soils are exposed adjacent to creeks and drainages.
2. Trench and/or bore pit spoil shall be stored a minimum of 25 feet from the top of the bank or wetland/riparian boundary. Spoils shall be stored behind a sediment barrier and covered with plastic or otherwise stabilized (i.e., tackifiers, mulch, or detention).
3. Portable pumps and stationary equipment located within 100 feet of a water resource (i.e., wetland/riparian boundary, creeks, and drainages) shall be placed within secondary containment with adequate capacity to contain a spill (i.e., a pump with 10-gallon fuel or oil capacity should be placed in secondary containment capable of holding 15 gallons). A spill kit shall be maintained on site at all times.
4. Immediately following backfill of the bore pits, disturbed soils shall be seeded and stabilized to prevent erosion, and temporary sediment barriers shall be left in place until restoration is deemed successful.

5. The applicant shall obtain the required permits prior to conducting creek crossing work. Required permits may include ACOE CWA Section 404, Regional Water Quality Control Board Clean Water Act 401, and CDFG Streambed Alteration Agreement 1602. The applicant shall implement all pre- and post-construction conditions identified in the permits issued.

4-PLAN IMPLEMENTATION

The HDD methodology will be utilized on this Project to bore at different locations along the fiber optic line. Bore pits will be located on each side of the proposed bore segment. Boring depths will vary depending on the location and should not exceed 50 feet below grade.

This document includes descriptions of construction methods and drilling procedures, spill prevention measures, notification, documentation, and corrective action procedures. While avoiding impacts to sensitive resources, HDD has the potential to inadvertently release drilling fluids, but properly managed released material can be contained, removed and disposed of safely.

4.1 Drilling Procedures

HDD are technically advanced procedures that involve trenchless drilling to minimize impacts to sensitive habitats and waterways. The HDD process uses a combination of water and bentonite slurry (naturally occurring clay) for drilling fluids. The non-hazardous mixture consists of a combination of active clay, inert solids and water. The fluid is prepared in a mixing tank and is pumped through the center of the drill pipe to the cutters. The fluid used during this process acts as a coolant and a lubricant during the drilling process and removes the cuttings and stabilizes the borehole. The cuttings are returned to the entry pit where it is pumped to processing equipment. The fluid is cleaned and recycled while the cuttings are disposed of at an approved disposal facility.

As site soils within the BH1 route contain higher concentrations of clay and silt, the initial recommendation for the drilling fluid to be mixed with 100 gallons of water is:

- 25 lbs of Baroid Bore-Gel – Bentonite clay used to suspend the bore hole in sand and reduce friction
- 0.25 lbs of Baroid No-Sag – Helps to suspend drill cuttings

The initial recommendation for application of the drilling fluid rate is 12 GPM while maintaining a hydrostatic pressure of no more than 15 PSI. To expand the pilot hole to the four 1.5 inch conduits, the contractor shall use reamers of successively larger diameters. During pull back, the contractor shall continue to apply drilling fluid at the pressure and flow as previously stated. As the pullback operation can significantly increase pressure, the contractor shall diligently monitor the bore hole pressure as well as fluid flow at the entry and exit pits.

4.1.1 Inadvertent Release

The process of HDD can cause drilling fluid to be released during installation, which can occur when pressure in the drill hole is not maintained and a loss of circulation of drilling fluids occurs. Drilling fluid loss is typical in small amounts when layers of soil, gravel, and rocks are encountered and the drilling fluid fills voids in the materials; however, there is a potential for the inadvertent release of drilling fluid. Drilling fluid release is usually caused by the drill hole pressure going beyond the containment capacity due to fractures in bedrock or other

significant voids in geologic strata that allows fluids to surface. A good indicator that a significant amount of loss has occurred is when the returning drilling fluid volume is significantly lower than the pumping fluid volume. The following provides the steps that will be taken in an effort to avoid an inadvertent release of HDD fluid.

4.1.2 Prior to Construction

All sediment and erosion control measures will be installed by the contractor. The measures include the following:

- Storm drain inlets will be protected.
- Large diameter fiber rolls (straw wattles) will be placed around proposed work areas.
- Silt fencing will be placed as needed.
- A site entrance and exit will be established to avoid track out.
- The site will be evaluated for areas that have potential for inadvertent release of fluids (dry and cracked soils) and an inventory of proper drilling fluids and equipment will be on site to deal with the potential problem areas.
- Containment areas will be set up for equipment, drilling fluids, and cuttings storage. Containment areas consist of some type of plastic sheathing formed with straw waddles to form a pit like area.
- Spill kits and cleanup materials, as described in Section 4.1.5 Spill Kit Equipment, will be available on site prior to any construction activities.
- The BMPs, emergency spill kit, and the Frac-Out kit will be staged nearby for immediate spill response.

4.1.3 During Construction

- All equipment within 100 feet from any drainage or other water resource will be placed in a double containment area.
- Drilling fluid and any waste will be contained in containment areas and stored in storage tanks.
- Spoil stockpiles will be stored behind a sediment barrier and covered with a plastic sheathing. Spoils will be stored at least 25 feet from any water bodies.
- Monitoring of fluid pressure, bore paths, and water bodies will continue during the duration of the construction activities by the Qualified Drilling Monitor (see Section 4.2 Notifications, Monitoring, and Documentation Procedures for monitoring and documentation procedures).
- A vacuum truck with sufficient hoses to reach all areas along the bore alignment will be staged on site prior to and during all drilling operations for emergency response. If workspace does not permit a vacuum truck to be staged on site, the truck will be readily available at a nearby work location or staging area via on-call procedures.
- An interim pump will be on site to reach low areas and assist the vacuum truck.
- Good housekeeping procedures will be maintained during construction at all times. Tailboard meetings will be held before work each day to discuss housekeeping and safety along with other topics.

4.1.4 Post Construction

- Following completion of trenchless excavation activities for the Project, all cuttings and other spoils will be hauled off site to an approved facility.
- All drilling fluids will be removed and hauled off site to an approved facility throughout construction;

however, all drilling fluids, cuttings, and spoil piles associated with trenchless excavation activities for the Project will be removed upon completion of those activities.

- All pre-construction sediment and erosion control measures described previously will continue to remain in place and will be monitored until the site has been stabilized and the spoils have been removed.

4.1.5 Spill Kit Equipment

The materials provided in the Emergency Spill Kit may include the following items:

- Three (3) absorbent socks
- Six (6) disposal bags and ties
- Two (2) pair of safety glasses
- Two (2) pair of rubber gloves
- One (1) sorbent drip pillow
- Twelve (12) sorbent pads
- One (1) Emergency Response Guidebook
- Two (2) sorbent spill pillows
- Four (4) hazardous labels
- One (1) bag Lite-Dri Absorbent
- One (1) shovel & 1 broom
- Absorbent skipper booms
- One (1) 55-gallon storage barrel

The materials provided in the Frac-Out Kit may include the following items:

- One hundred (100) sand bags
- Vacuum truck with sufficient length of vacuum hose
- Intermediate pump
- Hundred (100) feet of fiber rolls
- Twenty (20) straw bales
- Two (2) shovels
- Lumber
- One (1) 3,000-gallon tank for storage of released material

4.2 NOTIFICATIONS, MONITORING, AND DOCUMENTATION PROCEDURES

As identified in the Project plans, and the Project's federal, state and local permits, HDD locations will be monitored, in Section 4.2.1 Monitoring Procedures of this Plan, until the sites are stabilized and the spoils have been removed. The personnel operating the drilling machine as well as at the bore and receiving pits shall be in constant communication. They shall be trained in the equipment's hydrostatic pressure monitoring system and have at least 10 years of experience in directional drilling.

4.2.1 Monitoring Procedures

During drilling operations, the drilling contractor will have a Qualified Drilling Monitor present on site, who will perform the following activities:

- Visually inspect the bore path at the completion of each joint and inspect 100 feet upstream and downstream along bore alignment.
- Examine drilling mud pressures and return flows. Shut down drilling operations immediately if more than 2% of the total fluid volume in circulation is lost during the drilling of one (1) joint (30 feet max).
- Visually inspect the bore alignment and a 100-foot radius around the HDD operation.
- If drilling fluids begin to decline, two (2) crew members will continue to monitor until drilling fluid returns are stabilized.
- Communicate regularly regarding the drilling conditions during the course of the drilling activities.
- Inspect all stream crossings with flowing water.
- Monitoring for frac-outs shall continue 48 hours after all the drilling and reaming is completed.
- Contain all drilling fluids and cuttings for proper disposal at an approved facility.

A daily inspection form with hourly inspection intervals is included in Attachment B: Inspection Forms.

Prior to the commencement of drilling operations, the environmental monitor will identify any sensitive environmental resources located in the area of potential frac-out. The location of these resources will be communicated to the drilling contractor verbally.

An environmental monitor will be present at all times when HDD activities are being performed. As discussed in Section 4.2.4 Corrective Actions, in the event of an inadvertent release outside of the approved work area, the construction contractor will conduct cleanup and inspections of the area via foot when feasible and, if it is safe to do so, will be accompanied by the appropriate environmental, archeological, and biological monitor(s).

4.2.2 Notification

In the event that an inadvertent release is discovered, the required notifications will be made according to the Project's permits and plans. Specifically, as required by the Project's Section 404, 401, and 1602 permits, the United States Army Corps of Engineers, Regional Water Quality Control Board, CDFW, and CPUC will be notified of any inadvertent release impacting jurisdictional waters. The notification(s) will be made as soon as an impact to a resource has been identified and sufficient data has been gathered to release the report. Vero Fiber Networks will endeavor to make the required notifications by phone or in writing within 24 hours following discovery of the release, if feasible.

4.2.3 Documentation

In the event that an inadvertent release is discovered, the following information will be documented:

- Name and telephone number of the person reporting release
- Date and time of release
- Location of release
- Nature of the release (type, quantity, size, etc.)
- How the release occurred

- Type of activity occurring around area
- Description of sensitive areas and their location in relation to the release
- Any identified impacts to biological, cultural, or paleontological resources
- Corrective actions taken
- Information regarding the potential threat to public health and safety (if any)

After the information detailed previously has been gathered, Vero Fiber Networks will provide the appropriate information in writing within 48 hours to the requisite agencies, as discussed in Section 4.2.2 Notification. However, in the event that the information cannot be gathered and/or cleanup activities are not completed within 48 hours, a final report documenting the information discussed in Section 4.2.2 Notification will be submitted to the requisite agencies as soon as practicable.

4.2.4 Corrective Actions

In the event that an inadvertent release/frac-out is discovered, the following corrective actions will take place:

- Drilling operations will stop immediately.
- Notification procedures will be implemented.
- The material will be removed and/or contained to minimize the affected area. Environmental monitors will be on site at all times while HDD activities are performed to ensure environmental requirements are met for removals in sensitive areas.
- The spill kit equipment will be kept on a trailer to facilitate rapid response to the site of the inadvertent release.
- The least damaging equipment and techniques will be used to clean up the spill. In the event that cleanup of an unanticipated release is necessary outside of the approved Project area and procedures beyond the use of foot traffic are required, the equipment and access route to be utilized for cleanup activities will be approved by CPUC prior to the completion of these activities, if feasible. However, the primary objective of the contractor in the event of a release will be to secure the site to prevent harm to human health and the environment.
- Impacted soils and any other materials associated with spill containment will be removed as soon as practical to an approved disposal facility.

4.3 CONTACT INFORMATION

The following table lists the individuals responsible for implementation of this Plan during construction.

| Company/Organization | Name/Title | Telephone Number |
|------------------------|-----------------------------------|------------------|
| Vero Fiber Networks | Josh Nelson, Project Manager | 850.490.0409 |
| Lightwave Construction | Steppen Beecher, Superintendent | 916.515.7698 |
| CSW ST2 | Robert Stevens, Project Manger | 415.533.1864 |
| CSW ST2 | Julia Harberson, Project Engineer | 415.599.9564 |

APPENDIX A

INSPECTION FORMS

PROJECT NAME: _____

DAILY INSPECTION LOG

| DATE | TIME | INSPECTION LOCATION | NOTES | INSPECTOR NME |
|------|-------|---------------------|-------|---------------|
| | 7 AM | | | |
| | 8 | | | |
| | 9 | | | |
| | 10 | | | |
| | 11 | | | |
| | 12 PM | | | |
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| | 7 pm | | | |
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| | 7 AM | | | |
| | 8 | | | |
| | 9 | | | |
| | 10 | | | |
| | 11 | | | |
| | 12 PM | | | |
| | 1 | | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |
| | 7 pm | | | |

RELEASE INSPECTION AND DOCUMENTATION FORM

Name and Title: _____

Date: _____

Location of Release: _____

Approximate amount of boring actives completed (feet): _____

Nature of Release:

How release occurred:

Description of sensitive area:

Corrective Action taken:

Attach photograph here

Signature _____

TABLE C
AMMS AND BMPS

| ID | Subject | Measure to be Implemented |
|--------------|------------------------------------|---|
| AMM BIO 1 | Biological Monitoring Requirements | <p>The applicant shall designate one or more Project biologists. Project biologist refers to the qualified person assigned to ensure Project-wide biological measures identified in this document are followed and to document compliance with these measures. The Project biologist will also oversee other biologists and/or biological monitors. Biological monitor refers to a qualified person assigned to ensure biological measures are being implemented during construction activities.</p> <p>Project biologist(s) or biological monitor(s) shall be on-site as needed according to AMMs. Project biologists and biological monitors shall be familiar with sensitive species and resources and the minimization measures for this Project. The Project biologist(s) shall be responsible for overseeing and training biological monitors; advising the applicant and contractor on compliance with biological mitigation measures; notifying the applicant of noncompliance with biological resources conditions; responding directly to inquiries of the lead agencies or resource agencies regarding biological resource issues; maintaining records of tasks related to compliance and reporting for biological resource measures; preparing monthly, annual, and final compliance reports; establishing and enforcing speed limits at Project work areas; and maintaining the ability for regular, direct communication with representatives of CDFW and USFWS, including notifying these agencies of dead or injured special-status species and reporting special-status species observations.</p> <p>Daily logs—When on site, the Project biologist(s) and/or biological monitor(s) shall maintain electronic records of daily activities, observations, and communications with the applicant or construction personnel. These records shall be made available for review to the lead agencies at any time during or following Project implementation.</p> <p>Stop Work Authority—The Project biologist(s) and biological monitor(s) shall have written authority to require a halt to activities in any area when determined that there would be an unauthorized adverse impact to biological resources if the activities continued.</p> <p>Applicability: Project wide, where and when a monitor is needed.</p> |
| AMM BIO-2 | Environmental Awareness Training | <p>Key personnel (e.g., crew leads, foremen) will complete an environmental awareness training on the protected species in and around the Project route and on required environmental protection measures. Training shall explain the need for and implementation of minimization measures. The training shall include supporting written material and electronic media, including photographs of protected species; providing information regarding the locations and types of sensitive biological resources within the Project alignment and adjacent areas as well as explaining the reasons for protecting these resources; informing participants that no snakes, other reptiles, bats, or any other wildlife shall be harmed or harassed, with special emphasis on special-status species, and including information on physical characteristics, distribution, behavior, ecology, sensitivity to human activities, legal protection, penalties for violations, reporting requirements, and protection measures; identifying the Project biologist(s) and biological monitor(s) for contact or further comments and questions about the material discussed in the program; directing trainees to report all observations of listed species and their sign to the Project biologist for inclusion in the compliance reports; a</p> |

TABLE C
AMMS AND BMPS

| ID | Subject | Measure to be Implemented |
|-----------|---|--|
| | | <p>discussion of the Project biologists and biological monitors' stop work authority; and a training acknowledgment form to be signed by each worker indicating that they received training and shall abide by the guidelines.</p> <p>Applicability: Project wide.</p> |
| AMM BIO-3 | Habitat Mitigation and Monitoring Plan | <p>During final Project design, a Habitat Mitigation and Monitoring Plan will be developed that provides detailed plans for the restoration of temporarily disturbed waterways, wetlands, and riparian habitat. For these areas, temporary ground disturbance from construction activities (including staging/laydown areas) will be restored to the original conditions and contours and revegetated with native plant species. This plan shall also be submitted to and approved by the USACE, USFWS, and CDFW prior to initiating any mitigation activities. The plan will outline restoration and conservation activities, locations, monitoring requirements, and criteria to measure mitigation success. Restoration may include planting and/or seeding with locally sourced native species, erosion control measures, non-native plant control, and site monitoring.</p> |
| AMM BIO-4 | Wetlands, Riparian Habitat, and Aquatic Resources | <p>Prior to construction, a qualified biologist will flag the boundaries of wetland, riparian habitat, and waterways delineated in the Preliminary Jurisdictional Delineation Report (Transcon 2020). Project infrastructure will be designed to avoid these resources to the greatest extent practicable. During construction, crews will limit all construction activities and staging to outside of the flagged areas. Manholes, handholes, and boring pits will not be located in any wetland, riparian, or aquatic resources. If construction activities require placement of fill, crews, or equipment in wetlands, or require disturbance to jurisdictional wetland or riparian areas, then Inyo will do the following:</p> <p>Vero will obtain and comply with all necessary USACE, CDFW, and California Coastal Commission permits.</p> <p>Applicability: Project wide.</p> |
| AMM BIO-5 | Special-Status Plants | <p>The Project biologist shall conduct a clearance survey for special-status plant species immediately prior to construction in appropriate habitat. If planned construction activities may result in an impact to special-status plant species, the following measures will be taken: 1) a minor re-route of the alignment would be made to avoid the plant(s) and a suitable buffer area to prevent root damage or other incidental damage, or 2) in areas that cannot be avoided by a minor re-route, the Project biologist will contact the appropriate agency to discuss the potential for salvaging the affected plants. A biological monitor shall be responsible for designating an appropriate buffer area or bore depth to minimize potential adverse impacts to the plants and roots.</p> <p>Applicability: Suitable habitat (will be mapped for construction crews).</p> |
| AMM BIO-6 | Invasive Species Prevention | <p>Contractor vehicles and equipment will be cleaned inside and out prior to mobilization to limit the introduction of non-native species on the Project corridor, specifically:</p> <ul style="list-style-type: none"> • Exterior cleaning will consist of washing vehicles and equipment, with attention paid to the tracks, feet, and/or tires and on the undercarriage, with special emphasis on axles, frame, cross members, motor mounts, and on and underneath steps, running boards, and front bumper/brush guard assemblies. Vehicle cabs will be swept out, and refuse will be disposed of in |

TABLE C
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| ID | Subject | Measure to be Implemented |
|-----------|---------------------------|--|
| | | <p>waste receptacles to be disposed of at an approved off-site location. The contractor will inspect vehicles and equipment to ensure that they are free of soil and debris capable of transporting non-native vegetation seeds, roots, or rhizomes. Seeds and plant parts that result from the cleaning will be collected and bagged for disposal at an approved off-site location. If noxious or invasive weeds are within the Construction Corridor, vehicles will be cleaned before moving on to areas that are weed free.</p> <ul style="list-style-type: none"> Contractors will avoid or minimize all types of off-road travel that may result in the collection and dispersion of non-native vegetation by construction vehicles and equipment. Activity boundaries including equipment staging and parking areas shall avoid known noxious plant infestations. If unavoidable, prior to implementation of operations where invasive plants are present, invasive plant-infestations shall be bladed away from equipment and access routes before operations start. Removed invasive plants or shrubs should be located on the edge of the clearing out of the way of operations to avoid retrieval on equipment. Equipment/machinery shall be cleaned prior to leaving the infested area to operate in another non-contiguous area. Rock, sand, or any material used for soil erosion control shall originate from a certified weed-free source if available. Rock source shall be inspected by staff trained in invasive plant identification. Permittee shall provide documentation that material is weed-free. (see https://www.cal-ipc.org/solutions/prevention/weedfreeforage/ and https://www.cal-ipc.org/solutions/prevention/weedfreegravel/ for more information about weed-free erosion control and aggregate sources) <p>Applicability: Project wide.</p> |
| AMM BIO-7 | Nesting Birds | <p>To avoid and minimize adverse effects to nesting birds, the following measures shall be implemented:</p> <ul style="list-style-type: none"> If work will occur during the nesting bird season (February 15 until August 31 OR January 1 until August 31 where there is potential for nesting eagles), nesting bird surveys will be conducted within seven days prior to the onset of construction by a Project biologist or biological monitor familiar with the species that may nest in the Action Area. Surveys will occur to a distance of 100 feet (for passerines) or 300 feet (for raptors) from the proposed work, access routes, and staging areas. In areas within 0.5 mile of suitable bald or golden eagle nesting habitat, nesting season begins January 1(to August 31) and surveys will be performed within 2,640 feet of work. If an active nest is encountered in or adjacent to a work area, a no equipment/no activity buffer will be implemented around the nest (the size of which will be determined by the Project biologist) OR the nest will be monitored by a Project biologist or biological monitor for disturbance. <p>Applicability: Project wide.</p> |
| AMM BIO-8 | Special-Status Amphibians | <p>When ground-disturbing work is occurring within 50 feet of waterways that have water present and that are suitable habitat for special-status amphibians, a qualified biologist will conduct a pre-disturbance survey for special-status amphibians (adults, subadults, tadpoles, or egg masses). The survey area will include suitable habitat within 50 feet of perennial and intermittent waterways and at least 50 feet upstream and downstream of the work area. The biologist will conduct surveys for special-status</p> |

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| ID | Subject | Measure to be Implemented |
|-----------|----------------|---|
| | | <p>amphibians prior to the start of ground-disturbing activities. If no special-status amphibians are detected, work may resume for 3 to 5 days before new surveys need to be conducted.</p> <p>If a special-status amphibian is confirmed to be present, then a qualified biologist will move the individual to a suitable off-site location within the same waterway.</p> <p>Applicability: Suitable habitat (will be mapped for construction crews).</p> |