

BEAR VALLEY FIBER BUILD



ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!
 1-907-278-3121



AREA MAP

ARRC PROJECT DRAWINGS

DATE: 3/19/2024

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 ANCHORAGE, AK 99503
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ALASKA RAILROAD NOTES:

1. CONTRACTOR TO CALL IN LOCATES THROUGH ALASKA 811 AND RAILROAD UTILITIES (CONFIRMATION REQUIRED) A MINIMUM (10) DAYS PRIOR TO EXCAVATION. (1-907-278-3121)
2. CONTRACTOR TO CALL DEVELOPMENT SERVICES AT 903-237-1074 FOR SITE INSPECTION
3. CONTRACTOR TO MAINTAIN THREE (3) FEET MINIMUM HORIZONTAL AND TWO (2) FEET MINIMUM VERTICAL CLEARANCE FROM OTHER FACILITIES.
4. ALL UTILITY CROSSINGS MUST HAVE DEPTH VERIFIED BY POTHOLING.
5. ALL DIRECTIONAL BORING SHALL HAVE THE LOCATOR PLACE BORE MARKS AND DEPTHS WHILE THE BORE IS IN PROGRESS. LOCATOR SHALL PLACE A MARK AT EACH STEM WITH A PAINT DOT AND DEPTH AT LEAST EVERY OTHER STEM.
6. CONTRACTOR MUST CLEAN SEDIMENT AND MUD FROM STREETS AND OTHER PAVED SURFACES BY PICKING IT UP AND SWEEPING. WASHING DOWN STREETS IS NOT PERMITTED.
7. CONTRACTOR MUST PICK UP CONSTRUCTION DEBRIS AND TRASH DAILY
8. CONTRACTOR MUST STABILIZE DISTURBED AREAS IN ESTABLISHED LAWN AREAS WITH WHOLE BLOCK SOD. EROSION CONTROL MATTING AND/OR HYDRO-MULCH SEEDING AND FERTILIZING ARE PERMISSIBLE IN OTHER AREAS.
9. CONTRACTOR WILL NOT BE PERMITTED TO CLOSE TRAFFIC LANES BETWEEN 7:00AM AND 9:00AM OR BETWEEN 3:30PM AND 6:30PM UNLESS OTHERWISE APPROVED IN ADVANCE BY THE PERMITTING AUTHORITY OR ARRC.
12. CONTRACTOR IS PERMITTED TO WORK BETWEEN 6:00AM AND 6:00PM ON MONDAY THROUGH FRIDAY. SATURDAY WORK IS PERMITTED BETWEEN THE HOURS OF 8:00AM AND 5:00PM, ONLY IF AN ARRANGEMENT FOR INSPECTION HAS BEEN MADE WITH THE ARRC INSPECTOR NO LATER THAN THE PRECEDING THURSDAY AT 9:00AM. THE CONTRACTOR IS NOT PERMITTED TO WORK ON SUNDAYS OR CITY HOLIDAYS EXCEPT IN THE EVENT OF AN EMERGENCY.

COMMON ABBREVIATIONS

- | | |
|------------------------------------|-------------------|
| AC - ASPHALT CUT | HD - HAND DIG |
| BA - BRIDGE ATTACHMENT | HB - HOG BORE |
| CIC - CABLE IN CONDUIT | JB - JOINT BORE |
| DBC - DIRECT BURIED CABLE | JT - JOINT TRENCH |
| DB - DIRECTIONAL BORE | OH - OVERHEAD |
| EHS - EXTRA HIGH STRENGTH (STRAND) | TR - TRENCH |

TYPICAL CONSTRUCTION DETAILS

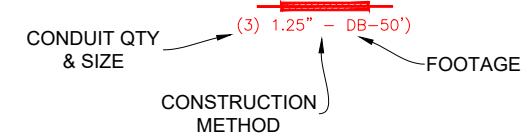
PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

GENERAL NOTES:

1. All existing utility locations shown are approximate and may not be accurate. It is the contractor's responsibility to locate (horizontally and vertically) within the area of construction) and repair any utilities damaged during this construction described herein.
2. Call 811 locate service at least 10 days prior to construction.
3. Contractor is responsible for "potholing", locating and probing all utilities in the work area prior to construction to prevent damage.
4. All underground facility road crossings must be at least 60" minimum depth below grade.
5. All underground facility rail crossings must be at least 60" minimum depth below the rail.

SPECIAL CONSTRUCTION METHODS



* FOOTAGES ARE BROKEN OUT FROM TOTAL FOOTAGE FOR REFERENCE

GENERAL NOTES

1. RIGHT OF WAY DATA USED FOR PERMITTING PURPOSES ONLY, NOT TO BE USED FOR SURVEYING PURPOSES.
2. ABOVE GROUND UTILITY FEATURES SHOWN FROM GIS DATA SOURCES PROVIDED BY OTHER UTILITIES AND ARRC. ALL SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE. UTILITY LOCATES WILL BE PERFORMED PRIOR TO CONSTRUCTION.
3. PARCEL GIS DATA WAS PROVIDED BY THE ANCHORAGE BOROUGH.
4. ALL BORES WILL BEGIN AND END AT A MINIMUM OF 50' FROM CENTERLINE OF TRACKS, AND MINIMUM 10' FROM EDGE OF PAVEMENT.
5. PAVED DRIVEWAYS, AND PARKING LOTS CAN BE TRENCHED, WITH ASPHALT REPAIR IN LIKE NEW CONDITION.
6. UTILITY FACILITIES INSTALLED IN A DITCH LINE MUST MAINTAIN AT LEAST 36" OF COVER FROM THE CROWN OF THE CONDUIT TO THE BOTTOM OF THE DITCH LINE DESIGN DEPTH.
7. CONTRACTOR SHALL OBTAIN FORMAL APPROVAL FOR ANY INSTALLATION OF FACILITIES OUTSIDE OF PUBLIC RIGHT-OF-WAY PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
8. 100 YEAR FLOOD PLAIN DATA DEPICTED IS PROVIDED BY THE ANCHORAGE BOROUGH

SYMBOLS KEY

	Utility Pole		Right of Way
	Pole Anchor Lead		Edge of Pavement
	Proposed Manhole		Centerline
	Proposed FO Vault		Proposed Aerial Path
	Bore Pit		Proposed Underground Path
	Comm Ped		Comm Path
	Sanitary MH		Gas Path
	Stormwater MH		Sanitary Path
	Stormwater Drain		Stormwater Path
	Street Light		Street Light Circuit
	Transformer		Power UG Path
	Water Hydrant/Valve		Water Path
	100 Year Flood Plain Boundary		

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--	N1	--
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CALL BEFORE YOU DIG! 1-907-278-3121
ALL POLE ATTACHMENTS ARE TO EXISTING POLES EXCEPT WHERE OTHERWISE INDICATED

- POWER POLE
- JOINT USE POLE
- TELCO POLE
- NEW HANDHOLE
- JOINT USE POLE (WITH TRANSFORMER)
- EXISTING ANCHOR
- PROPOSED ANCHOR

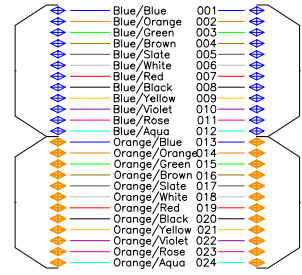
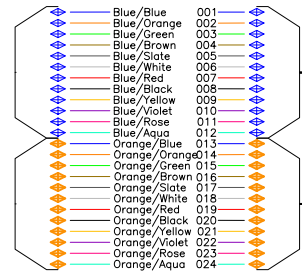
- PROPOSED FIBER OPTIC CABLE (AERIAL)
- PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- FIBER OPTIC SPLICE CASE
- FIBER STORAGE/SLACK LOOP

DATE: 3/19/2024
SCALE: N.T.S.
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: ANCHORAGE

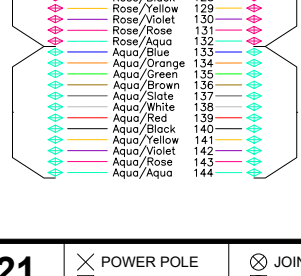
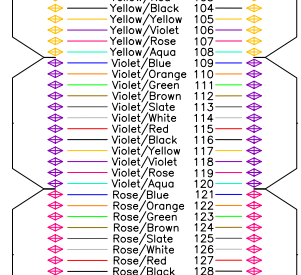
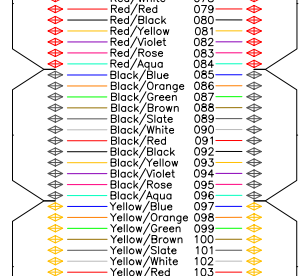
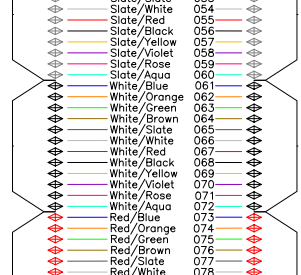
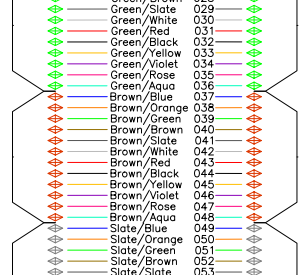
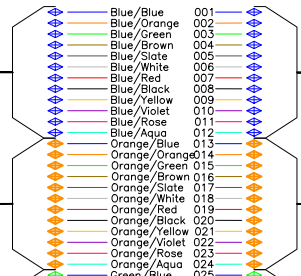
BEAR VALLEY
FIBER BUILD
SHEET N1 OF N2

(2) 24CT
CPF084

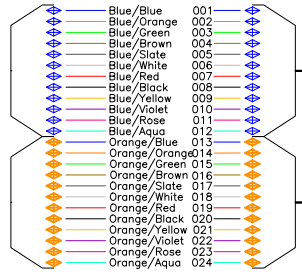
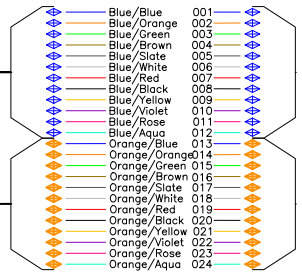


2ND 24CT PRETERM
TO BE PLACED
FOR FUTURE USE

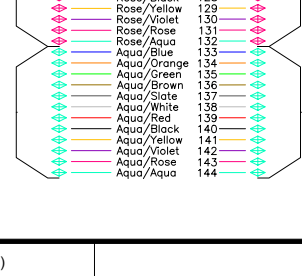
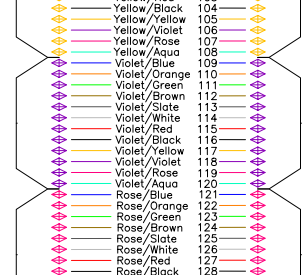
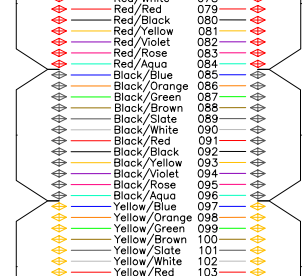
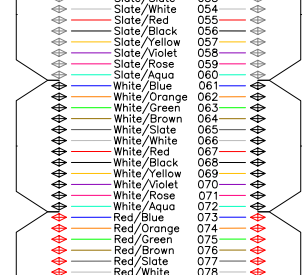
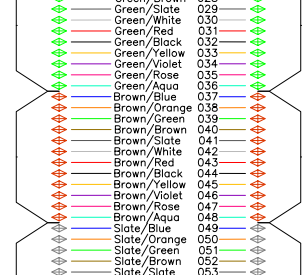
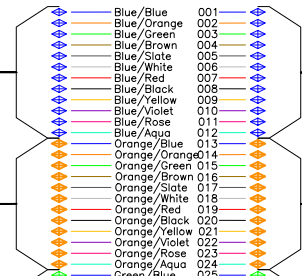
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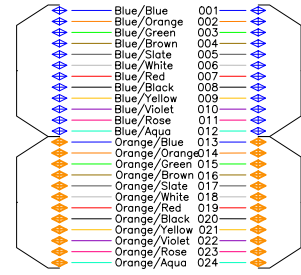
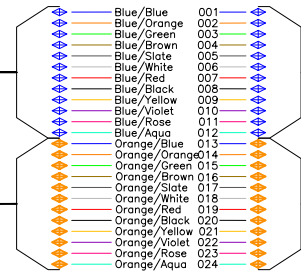
(2) 24CT
DOOR 4/BOILER ROOM



144B



(2) 24CT
WHITTIER TUNNEL



2ND 24CT PRETERM
TO BE PLACED
FOR FUTURE USE

FIBER SPLICING DIAGRAM

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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CALL BEFORE YOU DIG! 1-907-278-3121
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EXCEPT WHERE OTHERWISE INDICATED

- ⊗ POWER POLE
- ⊗ POWER POLE (WITH TRANSFORMER)
- TELCO POLE
- ⊞ NEW HANDHOLE
- ⊗ JOINT USE POLE
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- ➔ EXISTING ANCHOR
- ➔ PROPOSED ANCHOR

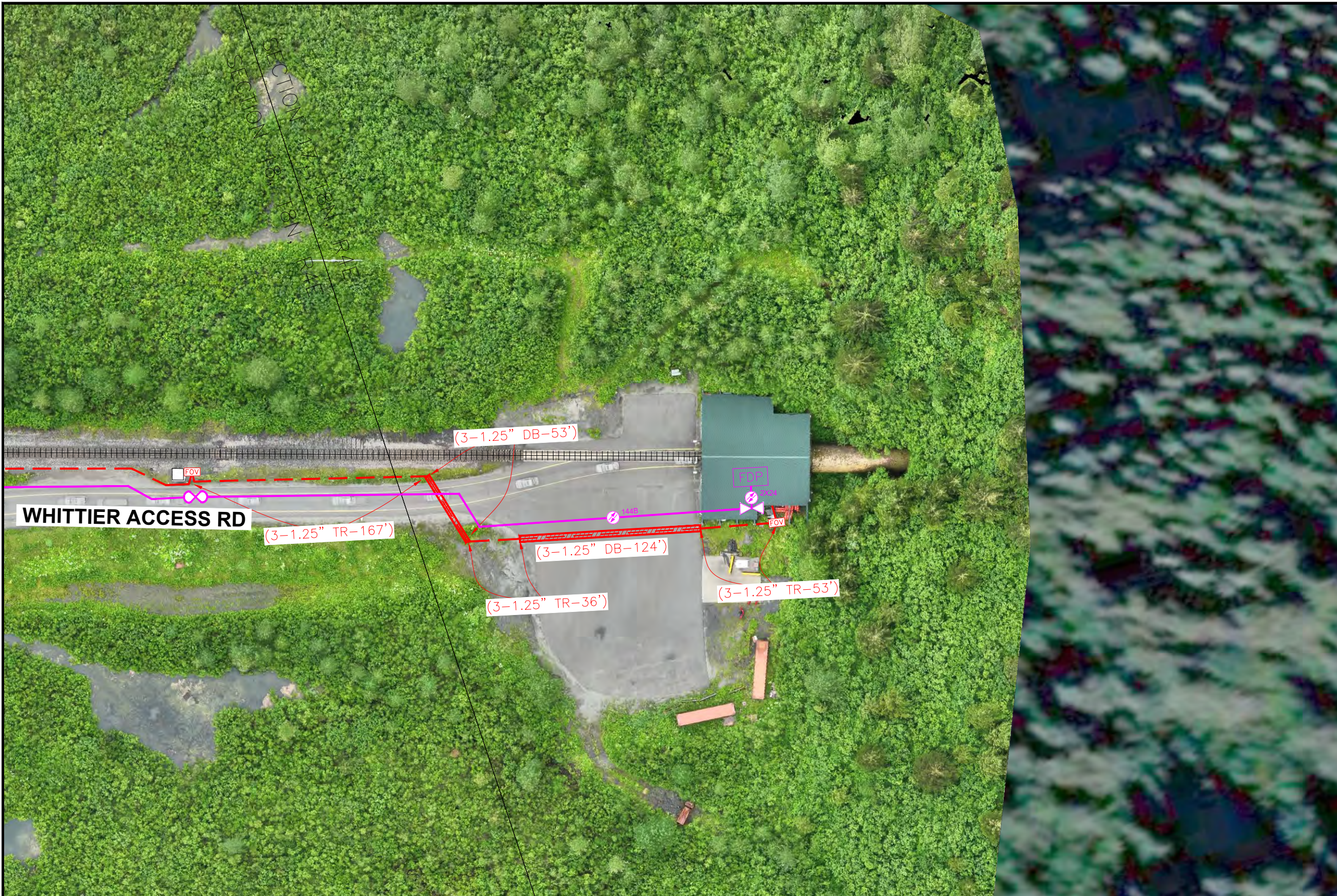
- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊗ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SKACK LOOP

DATE: 3/19/2024
SCALE: N.T.S.

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COUNTY/PARISH: ANCHORAGE

CITY: PORTAGE, AK

BEAR VALLEY
FIBER BUILD
SHEET N2 OF N2



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
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ANCHORAGE
BOROUGH

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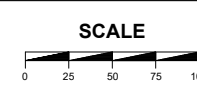
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(WITH TRANSFORMER)
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DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C1 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

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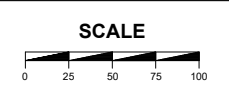
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C3	C2	C1
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DATE: 3/19/2024
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CITY: PORTAGE, AK

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COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C2 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

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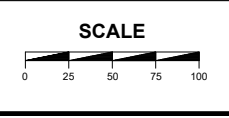
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C4	C3	C2
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DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C3 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

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C5	C4	C3
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BEAR VALLEY FIBER BUILD
SHEET C4 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
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FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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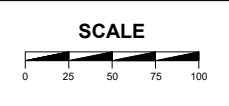
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C6	C5	C4
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CITY: PORTAGE, AK

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COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C5 OF C20



PROPOSED CONSTRUCTION PLANS

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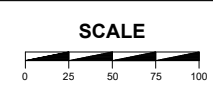
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C7	C6	C5
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DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C6 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

GENERAL NOTES:

1. All existing utility locations shown are approximate and may not be accurate. It is the contractor's responsibility to locate (horizontally and vertically) within the area of construction) and repair any utilities damaged during this construction described herein.
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3. Contractor is responsible for "potholing", locating and probing all utilities in the work area prior to construction to prevent damage.
4. All underground facility road crossings must be at least 60" minimum depth below grade.
5. All underground facility rail crossings must be at least 60" minimum depth below the rail.



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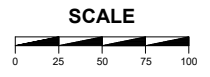
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C8	C7	C6
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CALL BEFORE YOU DIG! 1-907-278-3121
ALL POLE ATTACHMENTS ARE TO EXISTING POLES EXCEPT WHERE OTHERWISE INDICATED

- ✕ POWER POLE
- ⊗ JOINT USE POLE
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- TELCO POLE
- Ⓜ NEW HANDHOLE
- ➔ EXISTING ANCHOR
- PROPOSED ANCHOR

- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C8 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

GENERAL NOTES:

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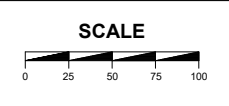
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- ⊗ POWER POLE (WITH TRANSFORMER)
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- TELCO POLE
- ⊗ NEW HANDHOLE
- ➔ EXISTING ANCHOR
- ➔ PROPOSED ANCHOR

- PROPOSED FIBER OPTIC CABLE (AERIAL)
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- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C8 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

GENERAL NOTES:

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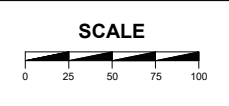
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- ⊗ POWER POLE (WITH TRANSFORMER)
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- TELCO POLE
- ⊗ EXISTING ANCHOR
- ⊗ NEW HANDHOLE
- ⊗ PROPOSED ANCHOR

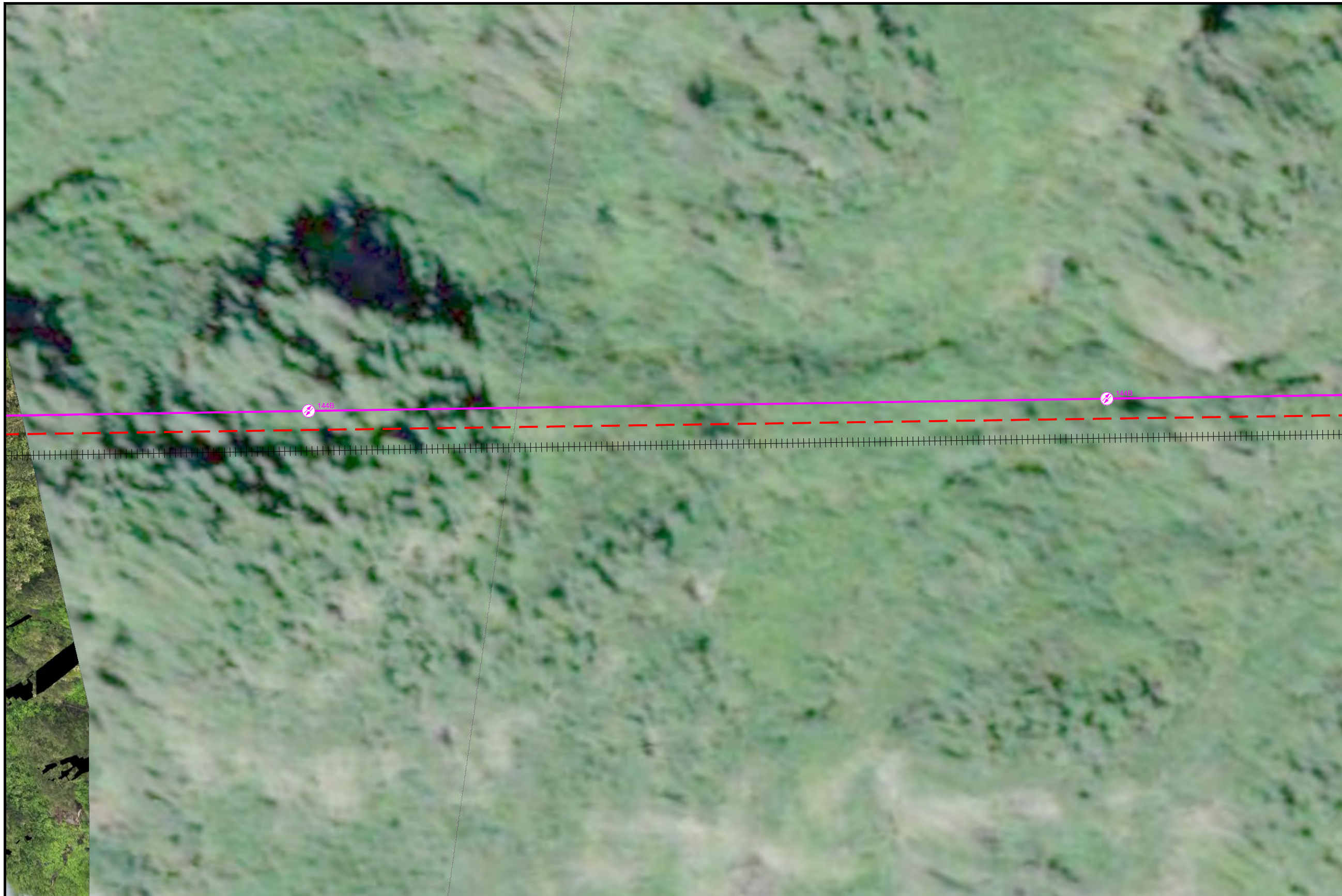
- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C9 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

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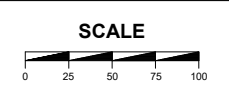
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- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



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DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C10 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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*NOTE: FUTURE WORK IN BLUE;
OPTIONAL WORK IN 2024 DEPENDING
ON RFP RESPONSES & AVAILABLE BUDGET

PROPOSED PLACEMENT
OF EMT CONDUIT
AROUND ENTRANCE OF
TUNNEL TO AVOID BORE

MID-SHEATH ENTRY,
DO NOT CUT 144CT

(3-1.25" TR-24')

(3-1.25" EMT-51')

(3-1.25" TR-29')

BOILER ROOM



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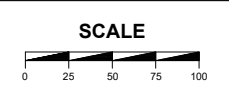
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C12	C11	C10
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CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
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BEAR VALLEY
FIBER BUILD
SHEET C11 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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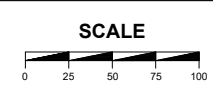
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C13	C12	C11
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- ⊗ JOINT USE POLE (WITH TRANSFORMER)
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- ➔ PROPOSED ANCHOR

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- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C12 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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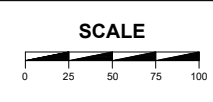
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C14	C13	C12
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- ⊞ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C13 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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OPTIONAL WORK IN 2024 DEPENDING
ON RFP RESPONSES & AVAILABLE BUDGET



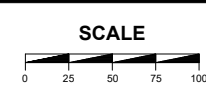
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C15	C14	C13
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- ⊞ NEW HANDHOLE
- ➔ PROPOSED ANCHOR

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- ⊞ FIBER OPTIC SPLICE CASE
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DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C14 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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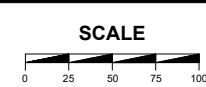
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C16	C15	C14
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- ⊕ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C15 OF C20



PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

GENERAL NOTES:

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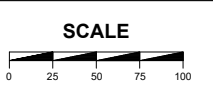
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C17	C16	C15
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DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY FIBER BUILD
SHEET C16 OF C20

PROPOSED CONSTRUCTION PLANS

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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OPTIONAL WORK IN 2024 DEPENDING
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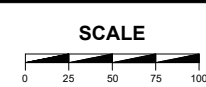
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DATE: 3/19/2024
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CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C17 OF C20

PROPOSED CONSTRUCTION PLANS

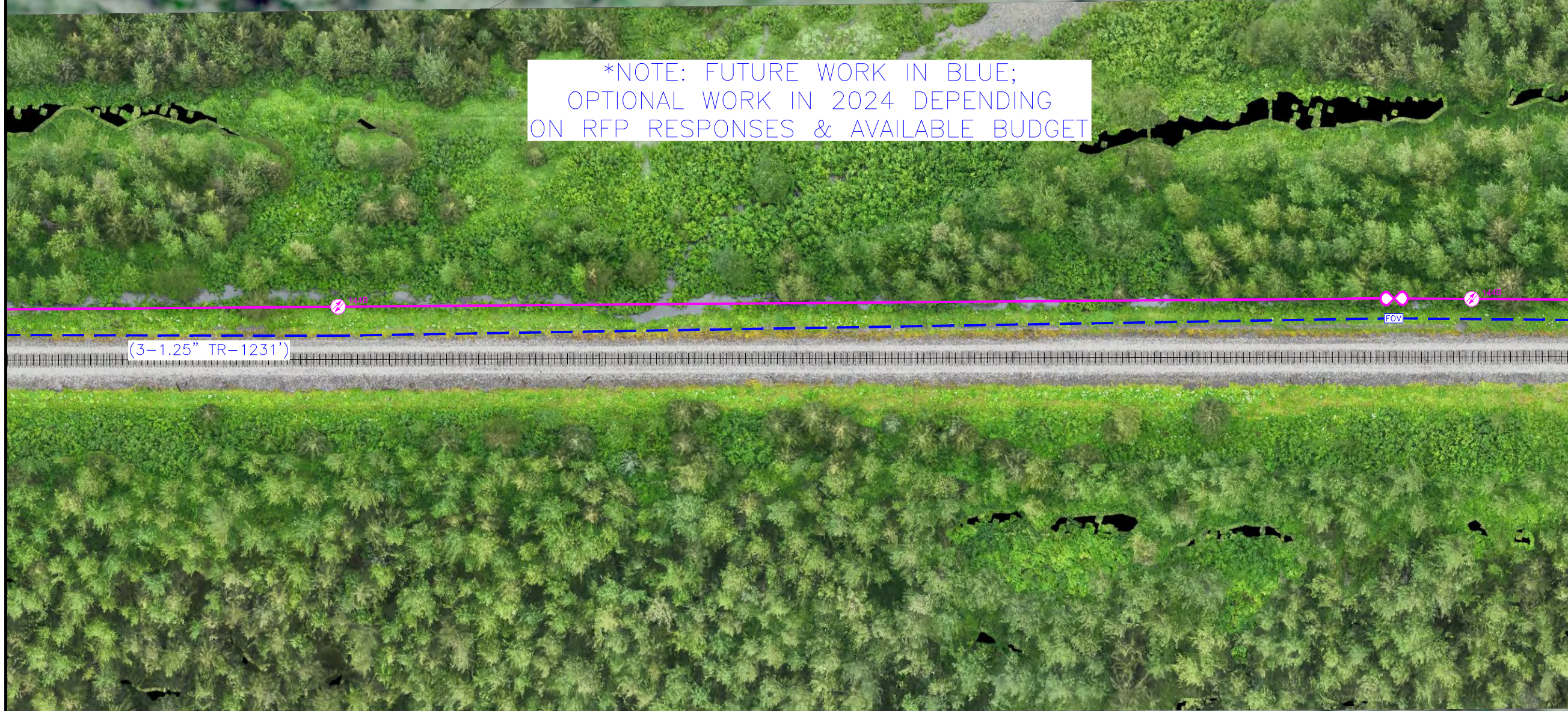
PROJECT NAME:
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FIBER BUILD

PROJECT LOCATION:
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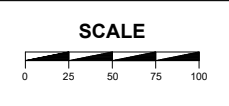
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- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊞ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C18 OF C20

PROPOSED CONSTRUCTION PLANS

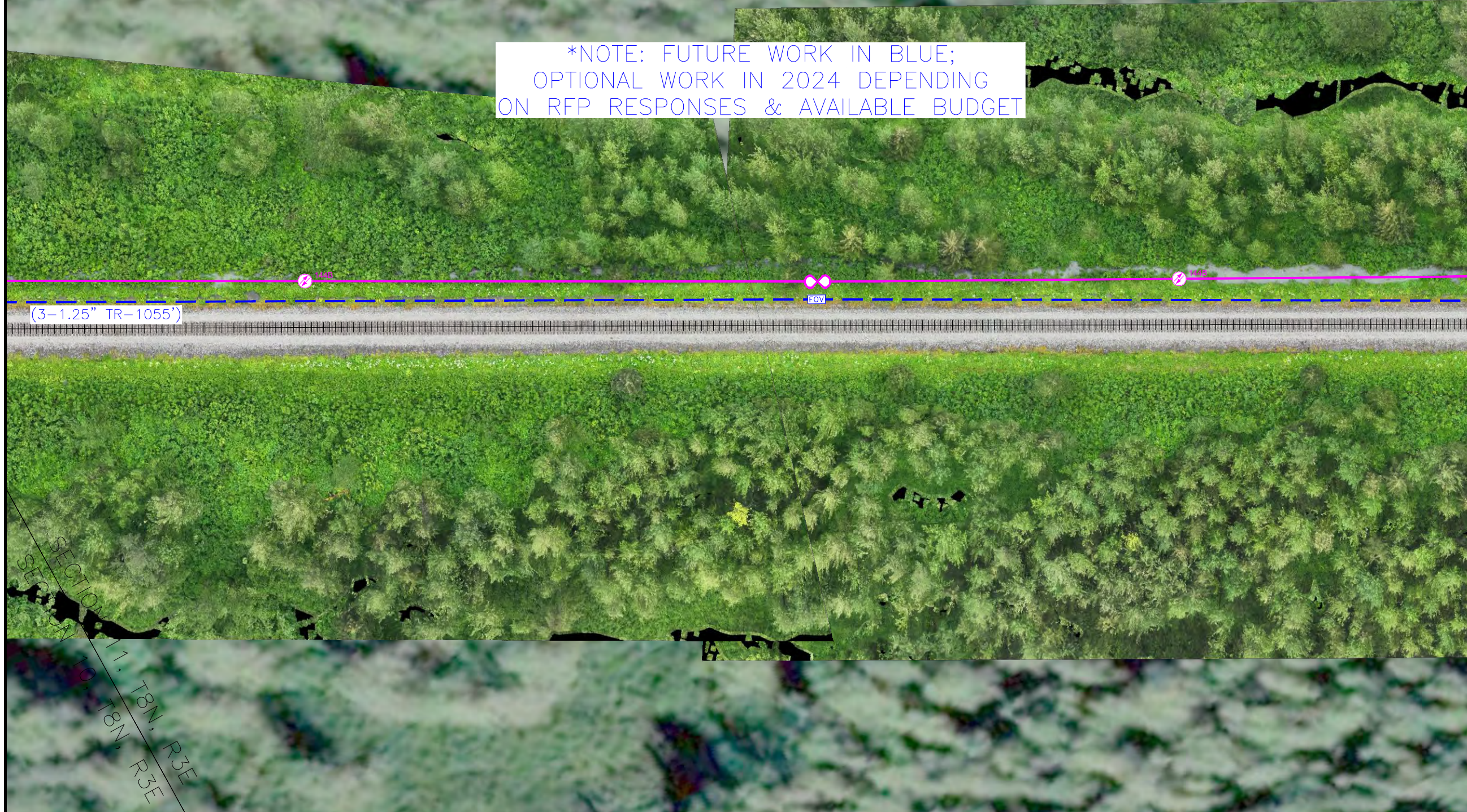
PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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*NOTE: FUTURE WORK IN BLUE;
OPTIONAL WORK IN 2024 DEPENDING
ON RFP RESPONSES & AVAILABLE BUDGET



SECTION 11, T8N, R3E
SECTION 10, T8N, R3E



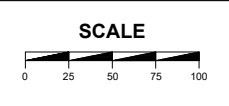
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SINCE 1979
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ANCHORAGE, AK, 99503
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www.wilcomm.com

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C20	C19	C18
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ALL POLE ATTACHMENTS ARE TO EXISTING POLES
EXCEPT WHERE OTHERWISE INDICATED

- ⊗ POWER POLE (WITH TRANSFORMER)
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- TELCO POLE
- ⊞ NEW HANDHOLE
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- ➔ EXISTING ANCHOR
- PROPOSED ANCHOR

- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊞ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP



DATE: 3/19/2024
SCALE: 1" = 100' (APPROX.)
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: MSB

BEAR VALLEY
FIBER BUILD
SHEET C19 OF C20



*NOTE: FUTURE WORK IN BLUE;
 OPTIONAL WORK IN 2024 DEPENDING
 ON RFP RESPONSES & AVAILABLE BUDGET

**PROPOSED
 CONSTRUCTION
 PLANS**

PROJECT NAME:
 BEAR VALLEY
 FIBER BUILD

PROJECT LOCATION:
 PORTAGE, AK
 ANCHORAGE
 BOROUGH

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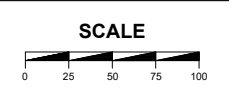
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- ⊞ PROPOSED ANCHOR

- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊞ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP

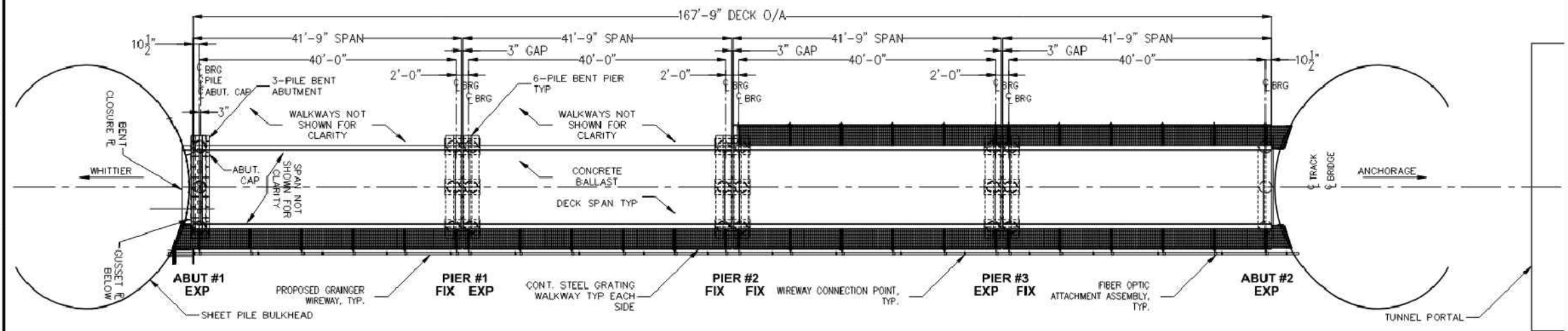


DATE: 3/19/2024
 SCALE: 1" = 100' (APPROX.)
 CITY: PORTAGE, AK

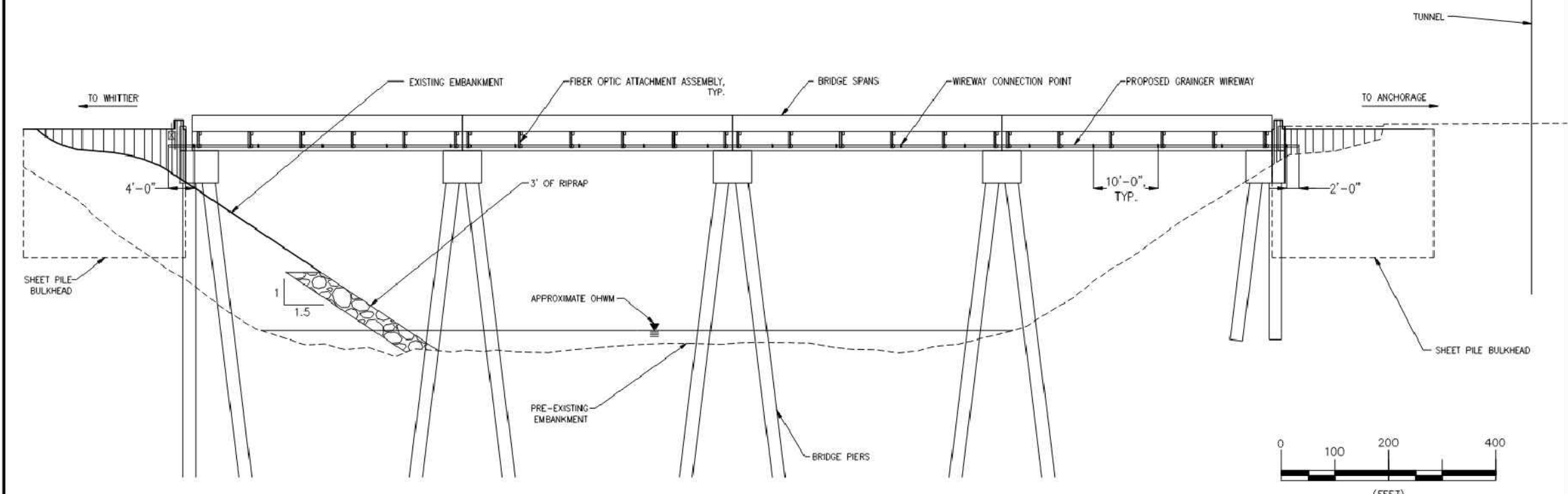
DRAFTED BY: WILLIAMS
 COUNTY/PARISH: MSB

BEAR VALLEY
 FIBER BUILD
SHEET C20 OF C20

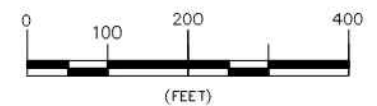
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 DATE: 3/6/2024 10:30 AM
 TIME: 10:30 AM
 SCALE: AS NOTED
 PUBLISHED: CTB



A OVERALL BRIDGE PLAN
1 SCALE: 1:100



B OVERALL BRIDGE ELEVATION
1 SCALE: 1:100



DESIGNED BY:	BSI
CHECKED BY:	ARRC
DRAFTED BY:	BSI
ALASKA RAILROAD CORPORATION PO BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
A/E FIRM ENGINEERING DEPARTMENT P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500	
PROJECT: BR. 5.7 UTILITY SUPPORT BRACKET	
SHEET TITLE: PLAN AND ELEVATION	
AFE NO.	T.B.D
YEAR	2024
SHEET	1 OF 1

BRIDGE BR.F5.7 DETAILS
PROJECT NAME:
 BEAR VALLEY FIBER BUILD
PROJECT LOCATION:
 PORTAGE, AK ANCHORAGE BOROUGH

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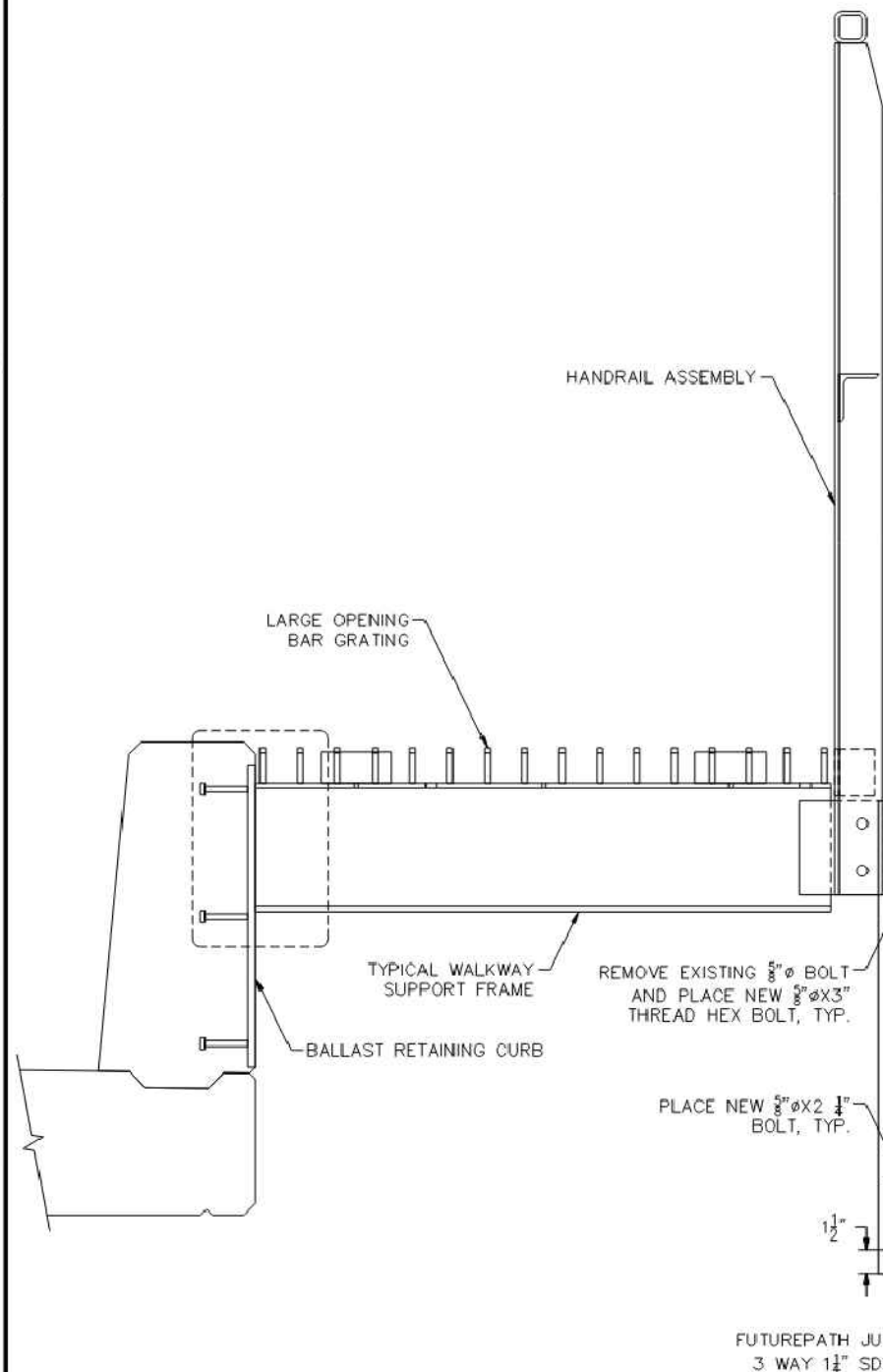
CALL BEFORE YOU DIG! 1-907-278-3121
 ALL POLE ATTACHMENTS ARE TO EXISTING POLES EXCEPT WHERE OTHERWISE INDICATED

X POWER POLE X POWER POLE (WITH TRANSFORMER) O TELCO POLE NEW HANDHOLE	X JOINT USE POLE X JOINT USE POLE (WITH TRANSFORMER) → EXISTING ANCHOR → PROPOSED ANCHOR	PROPOSED FIBER OPTIC CABLE (AERIAL) PROPOSED FIBER OPTIC CABLE (UNDERGROUND) FIBER OPTIC SPLICE CASE FIBER STORAGE/SLACK LOOP
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DATE: 3/19/2024
 SCALE: N.T.S.
 CITY: PORTAGE, AK
 DRAFTED BY: WILLIAMS
 COUNTY/PARISH: ANCHORAGE

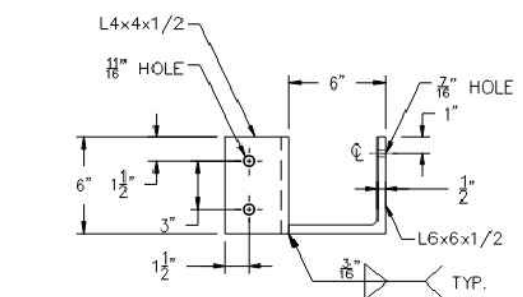
BEAR VALLEY FIBER BUILD
SHEET E1 OF E3

DRAWING LOCATION: P:\ENGINEERING\BRIDGES\BR_FOS_7\FIBER OPTIC CHASE SUPPORT\BR_F5.7 UTILITY CHASE DESIGN REV.LDW
 PUBLISHED: CTB
 SCALE: AS NOTED
 TIME: 4:20 PM
 DATE: 3/4/2024

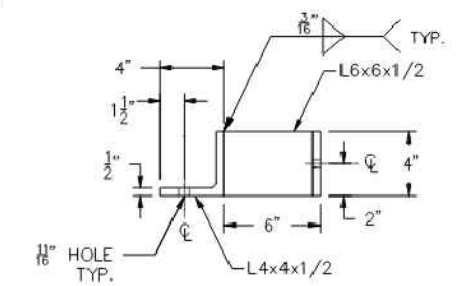


A WALKWAY CROSS SECTION
 1 SCALE: 1" = 5'-0"

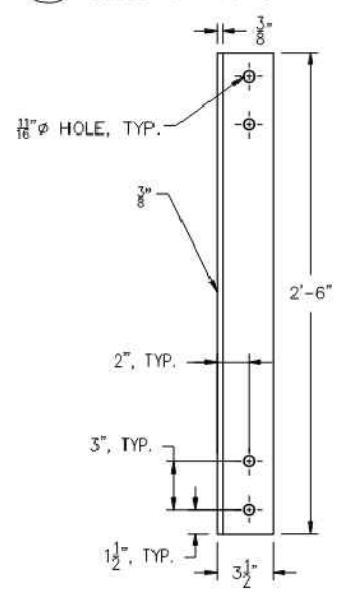
- NOTE:**
- ALL STEEL SHAPES AND STRUCTURAL HARDWARE TO BE GALVANIZED.
 - PLACE BRACKETS AND CONNECTION COMPONENTS AT EVERY WALKWAY SUPPORT ALONG THE BRIDGE (24 LOCATIONS).
 - PLACE 1-4 FT. GRAINGER WIREWAY PART NO. 32FL72 AT THE SOUTH END, 8.5 IN. INTO THE BULKHEAD.
 - PLACE 1-2 FT. GRAINGER WIREWAY PART NO. 32FL70 AT THE NORTH END, 8.5 IN. INTO THE BULKHEAD.
 - PLACE 17-10 FT. GRAINGER WIREWAY PART NO. 32FL69 ALONG THE BRIDGE LENGTH.
 - INSTALL ONE NEW BRACKET AND CONNECTION PLATE ASSEMBLY BEFORE WORKING ON THE NEXT SUPPORT.
 - STRUCTURAL FASTENERS SHALL MEET:
 - HIGH STRENGTH BOLTS: ASTM F3125, GRADE A325.
 - NUTS: ASTM A563.
 - HARDENED STEEL WASHERS: ASTM F436.
 - STRUCTURAL SHAPES SHALL MEET ASTM A6.



B U-BACKET SECTION VIEW
 1 SCALE: 1" = 5'-0"



C U-BACKET PLAN VIEW
 1 SCALE: 1" = 5'-0"



D CP1 - L3-1/2x3-1/2x3/8 CONNECTION
 1 SCALE: 1" = 5'-0"

DESIGNED BY:	BSI
CHECKED BY:	BAO
DRAFTED BY:	BSI
ALASKA RAILROAD CORPORATION P.O. BOX 107500, ANCHORAGE, AK 99510-7500 327 W SHIP CREEK AVE ANCHORAGE, AK 99501 (907) 265-2300	
KEY MAP	
A/E FIRM	
ENGINEERING DEPARTMENT	P.O. BOX 107500 ANCHORAGE, ALASKA 99510-7500
PROJECT: BR. F5.7 UTILITY SUPPORT BRACKET	
SHEET TITLE: CONNECTION ASSEMBLES DETAILS	
AFE NO.	T.B.D
YEAR	2024
SHEET	1 OF 1

BRIDGE BR.F5.7 DETAILS

PROJECT NAME:
 BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
 PORTAGE, AK ANCHORAGE BOROUGH

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DATE: 3/19/2024
 SCALE: N.T.S.
 CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
 COUNTY/PARISH: ANCHORAGE

BEAR VALLEY FIBER BUILD
SHEET E2 OF E3



**BRIDGE
BR.F5.7
DETAILS**

PROJECT NAME:
BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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- ⊞ NEW HANDHOLE
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- ➔ EXISTING ANCHOR
- PROPOSED ANCHOR

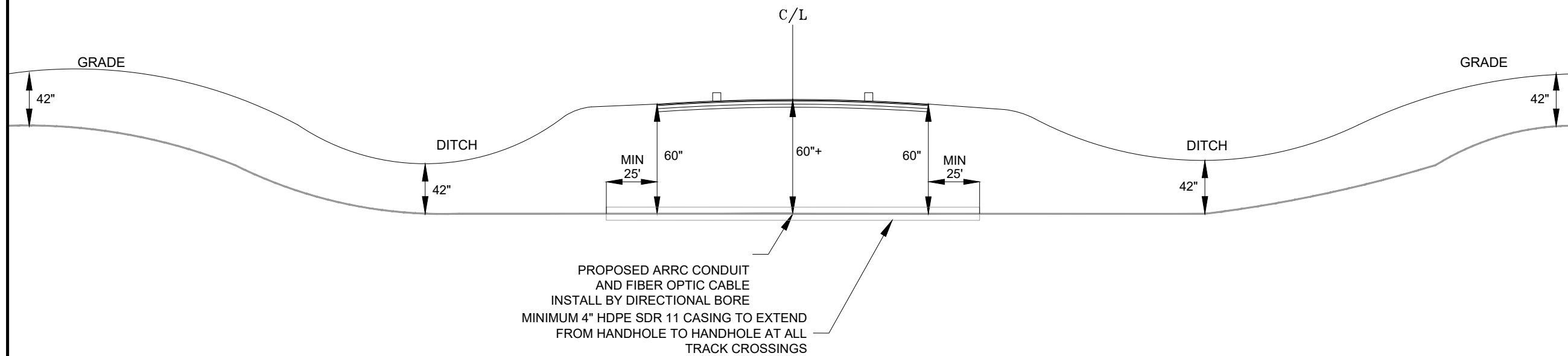
- PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
- ⊞ FIBER OPTIC SPLICE CASE
- ∞ FIBER STORAGE/SLACK LOOP

DATE: 3/19/2024
SCALE: N.T.S.
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS
COUNTY/PARISH: ANCHORAGE

BEAR VALLEY
FIBER BUILD
SHEET E3 OF E3

BORE PROFILE TYPICAL ARRC CROSSING



PROPOSED ARRC CONDUIT
AND FIBER OPTIC CABLE
INSTALL BY DIRECTIONAL BORE
MINIMUM 4" HDPE SDR 11 CASING TO EXTEND
FROM HANDHOLE TO HANDHOLE AT ALL
TRACK CROSSINGS

* REFER TO DESIGN FOR NUMBER OF FIBER OPTIC CABLES AND CONDUITS AT EACH CROSSING

TYPICAL CONSTRUCTION DETAILS

PROJECT NAME:
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FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE
BOROUGH

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- ⊗ JOINT USE POLE
- ⊗ POWER POLE (WITH TRANSFORMER)
- ⊗ JOINT USE POLE (WITH TRANSFORMER)
- TELCO POLE
- EXISTING ANCHOR
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DATE: 3/19/2024

SCALE: N.T.S.

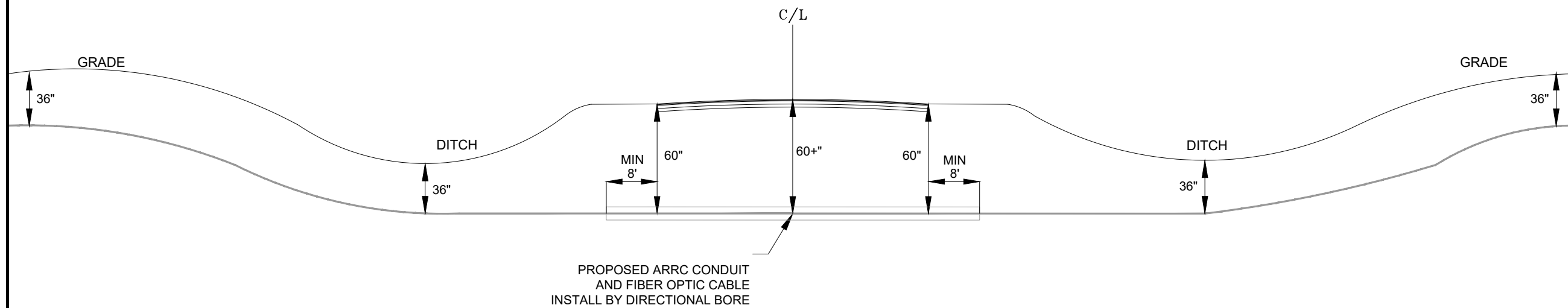
CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS

COUNTY/PARISH: ANCHORAGE

BEAR VALLEY
FIBER BUILD
SHEET T1 OF T4

BORE PROFILE TYPICAL ROAD CROSSING



PROPOSED ARRC CONDUIT
AND FIBER OPTIC CABLE
INSTALL BY DIRECTIONAL BORE

* REFER TO DESIGN FOR NUMBER OF FIBER OPTIC CABLES AND CONDUITS AT EACH CROSSING

TYPICAL CONSTRUCTION DETAILS

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FIBER BUILD

PROJECT LOCATION:
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ANCHORAGE
BOROUGH

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○ TELCO POLE	➔ EXISTING ANCHOR
⊞ NEW HANDHOLE	➤ PROPOSED ANCHOR

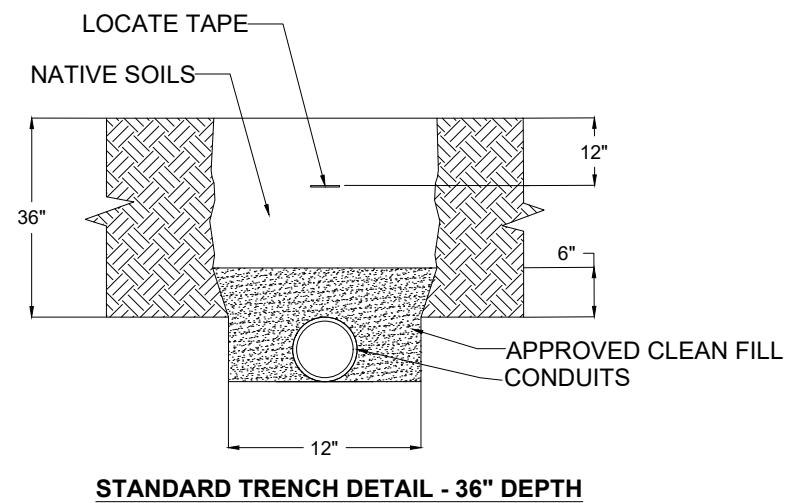
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⊞ FIBER OPTIC SPLICE CASE
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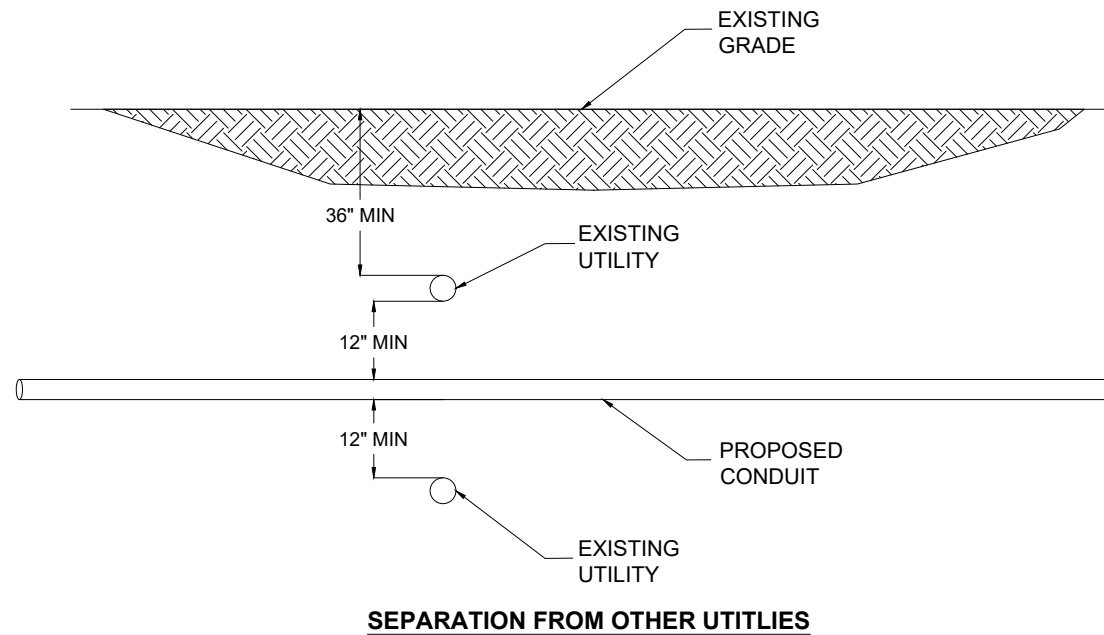
DRAFTED BY: WILLIAMS
COUNTY/PARISH: ANCHORAGE

CITY: PORTAGE, AK

BEAR VALLEY
FIBER BUILD
SHEET T2 OF T4



NOTE: CONTRACTOR TO POTHOLE ALL UTILITIES TO CONFIRM DEPTH BEFORE CROSSING.
CONTRACTOR TO POTHOLE TO A MINIMUM OF 12" BELOW PROPOSED BORE DEPTH TO CONFIRM SEPARATION FROM UTILITIES BELOW

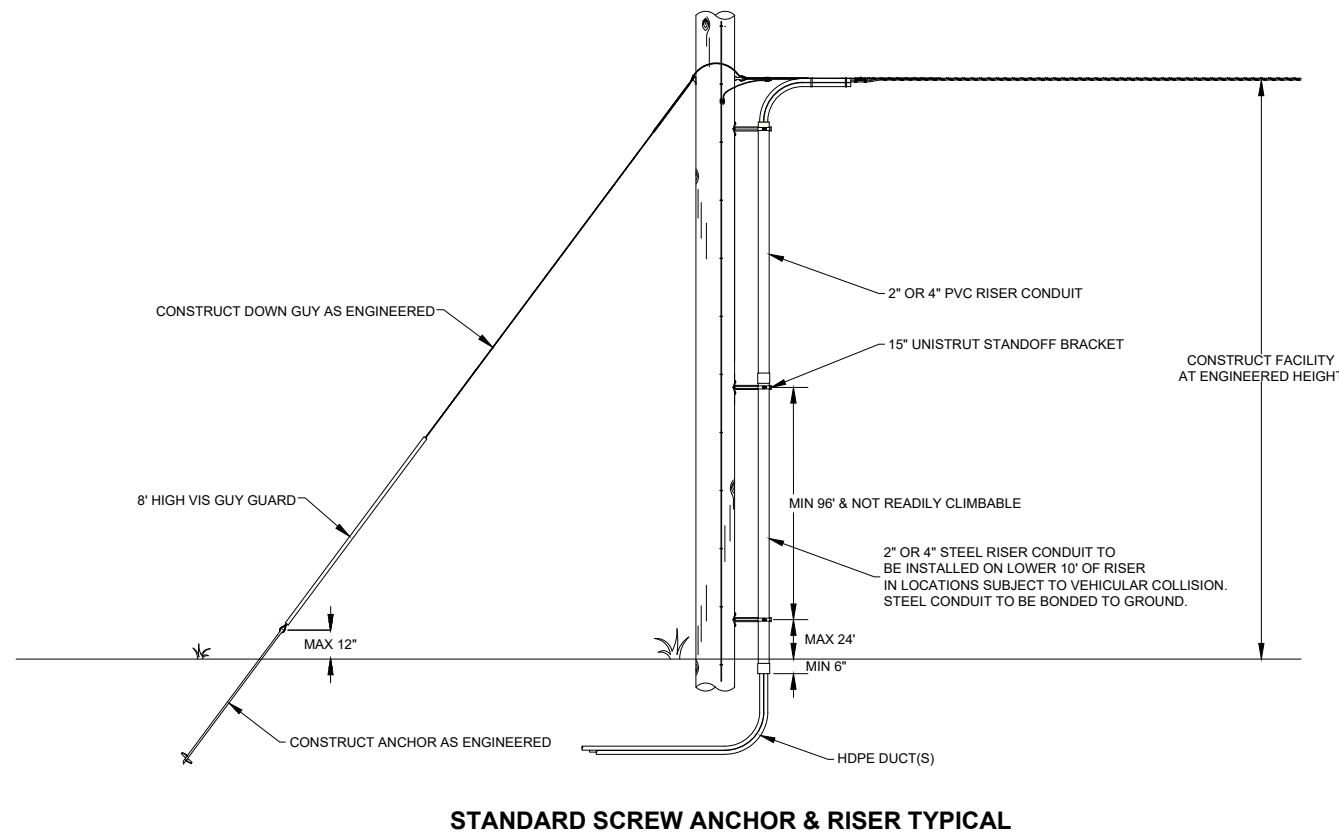
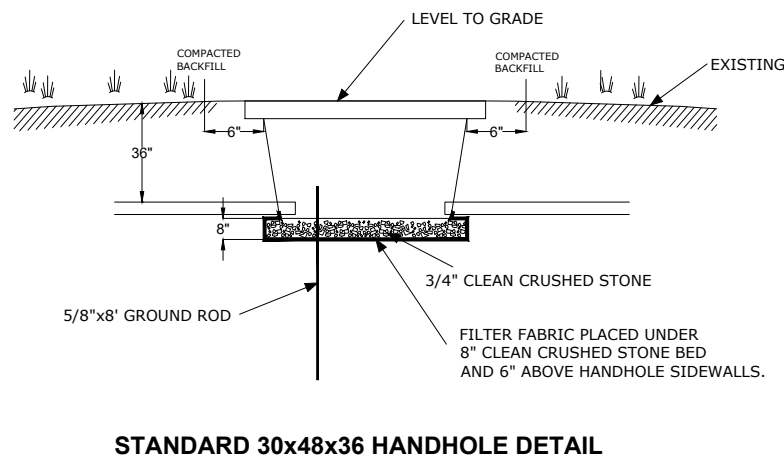
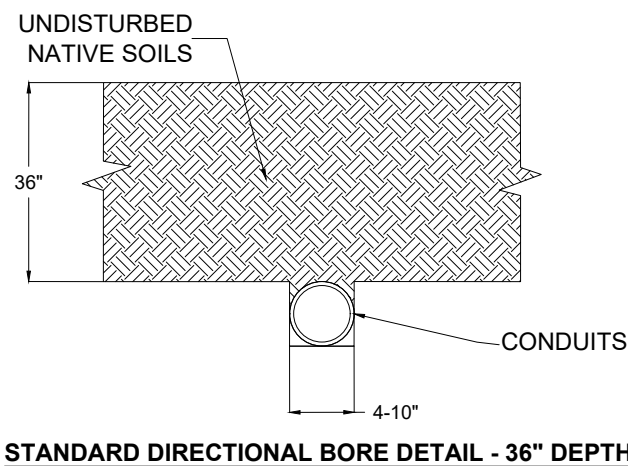


TYPICAL CONSTRUCTION DETAILS

PROJECT NAME:
BEAR VALLEY FIBER BUILD

PROJECT LOCATION:
PORTAGE, AK
ANCHORAGE BOROUGH

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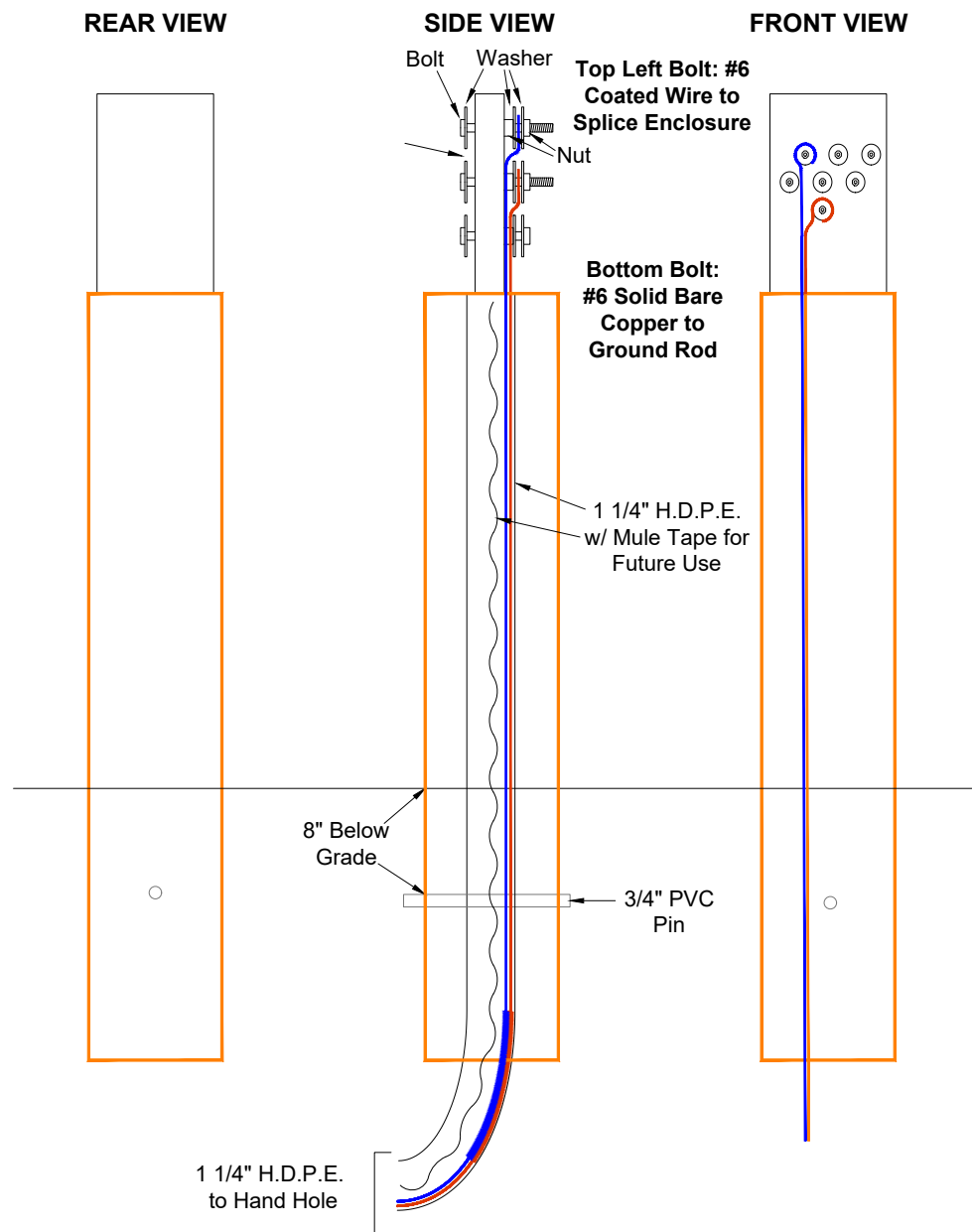
<p>✕ POWER POLE ✕ POWER POLE (WITH TRANSFORMER) ○ TELCO POLE NEW HANDHOLE</p>	<p>⊗ JOINT USE POLE ⊗ JOINT USE POLE (WITH TRANSFORMER) ➔ EXISTING ANCHOR ➔ PROPOSED ANCHOR</p>	<p>— PROPOSED FIBER OPTIC CABLE (AERIAL) - - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND) — FIBER OPTIC SPLICE CASE ∞ FIBER STORAGE/SLACK LOOP</p>
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DATE: 3/19/2024
SCALE: N.T.S.
CITY: PORTAGE, AK

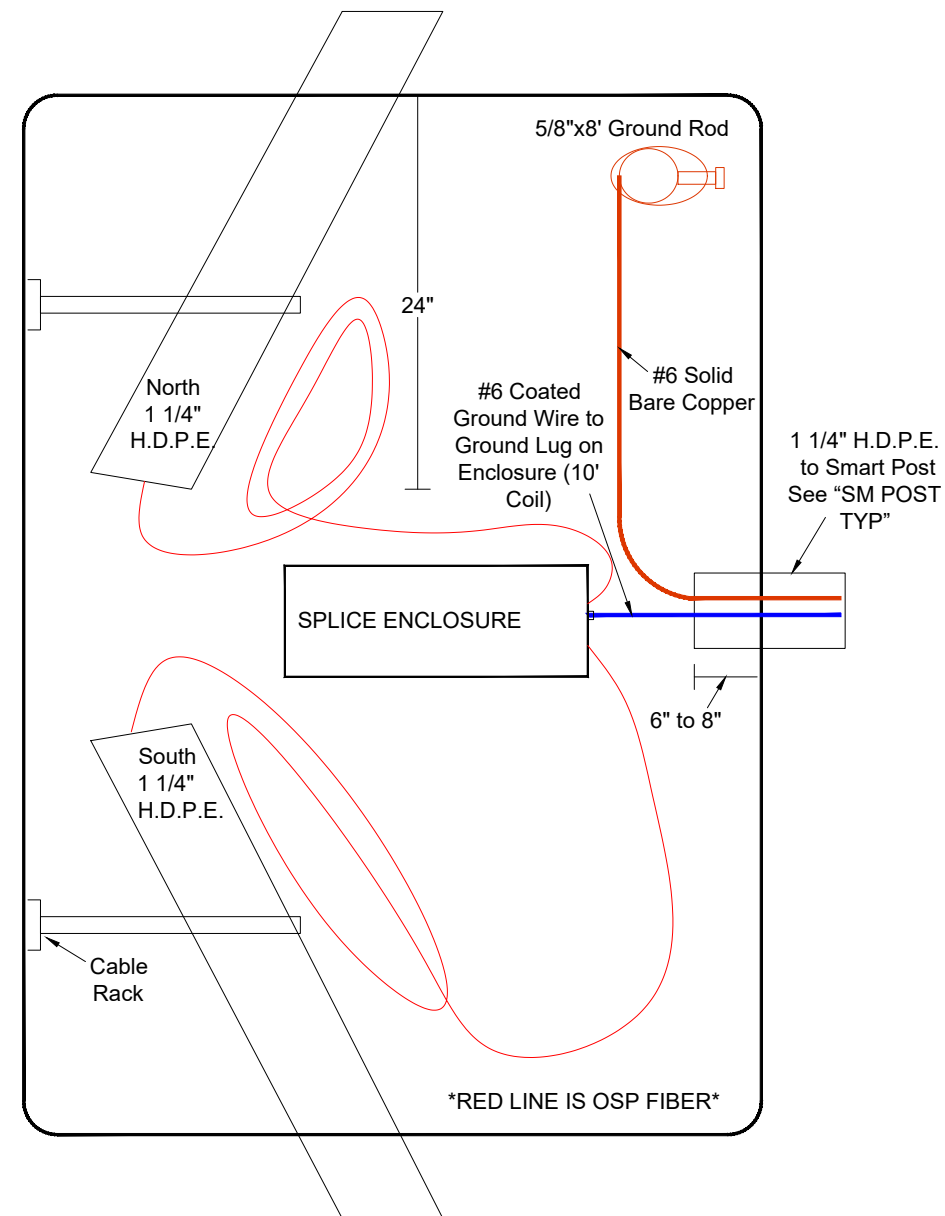
DRAFTED BY: WILLIAMS
COUNTY/PARISH: ANCHORAGE

TYPICAL HANDHOLE/VAULT INSTALLATION WITH SMART POST (SPLICE LOCATIONS)

TYPICAL SMART POST INSTALLATION



TYPICAL HANDHOLE / VAULT INSTALLATION
(30"x48")



TYPICAL CONSTRUCTION DETAILS

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BEAR VALLEY
FIBER BUILD

PROJECT LOCATION:
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ANCHORAGE
BOROUGH

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⊗ JOINT USE POLE (WITH TRANSFORMER)
○ TELCO POLE
⊞ NEW HANDHOLE

→ EXISTING ANCHOR
→ PROPOSED ANCHOR

— PROPOSED FIBER OPTIC CABLE (AERIAL)
- - - PROPOSED FIBER OPTIC CABLE (UNDERGROUND)
— FIBER OPTIC SPLICE CASE
∞ FIBER STORAGE/SLACK LOOP

DATE: 3/19/2024

SCALE: N.T.S.

CITY: PORTAGE, AK

DRAFTED BY: WILLIAMS

COUNTY/PARISH: ANCHORAGE

BEAR VALLEY
FIBER BUILD
SHEET T4 OF T4