



ADDENDUM TO THE CONTRACT

for the

KAXDIGOOWU HEEN DEI TRAIL RELOCATION Contract No. MR BE19-177

ADDENDUM NO.: TWO

CURRENT DEADLINE FOR BIDS:
July 25, 2019

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: July 16, 2019

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <http://www.juneau.org/engineering ftp/contracts/Contracts.php>

PROJECT MANUAL:

- Item No. 1 SECTION 00852, PERMITS, PART 1 – GENERAL, **replace** paragraph B of 1.1 INDEX OF PERMITS with the following, and add the accompanying permits, labeled Addendum No. 2:
- B. U.S. Army Corps of Engineers permit POA-2018-00476, and Alaska Department of Environmental Conservation Certificate of Reasonable Assurance.

By: 

Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 26



DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
P.O. BOX 22270
JUNEAU, AK 99802-2270

July 15, 2019

Regulatory Division
POA-2018-00476

City and Borough of Juneau
Attention: Ms. Keri Williamson
155 Seward Street
Juneau, Alaska 99801

Dear Ms. Williamson:

Enclosed is the signed Department of the Army (DA) permit, file number POA-2018-00476, Mendenhall River, which authorizes the placement of fill into waters of the United States (U.S.) to facilitate the relocation of the Kaxdigoowu Heen Dei Trail. The project site is located within Section 25, T. 40 S., R. 65 E., Copper River Meridian; USGS Quad Map Juneau B-2; Starting at Latitude 58.371057° N., Longitude -134.602786° W.; Ending at Latitude 58.375857° N., Longitude -134.601454° W.; Located at the Mendenhall Bridge Glacier Highway pullout, in Juneau, Alaska. Also enclosed is a Notice of Authorization which should be posted in a prominent location near the authorized work.

If changes to the plans or location of the work are necessary for any reason, plans must be submitted to us immediately. Federal law requires approval of any changes before construction begins.

Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact Matthew Brody via email at Matthew.T.Brody@usace.army.mil, by mail at the address above, or by phone at (907) 790-4493, if you have questions. For more information about the Regulatory Program, please visit our website at www.poa.usace.army.mil/Missions/Regulatory.

Sincerely,

A handwritten signature in black ink, appearing to read "Randal Vigil".

Randal Vigil
Project Manager



This notice of authorization must be conspicuously displayed at the site of work.

**United States Army Corps of Engineers
Mendenhall River**

A permit to: Remove the existing Kaxdigoowu Heen Dei Trail and place fill into wetlands to construct a new trail route.

at: Section 25, T. 40 S., R. 65 E., Copper River Meridian; USGS Quad Map Juneau B-2; Starting at Latitude 58.371057° N., Longitude -134.602786° W.; Ending at Latitude 58.375857° N., Longitude -134.601454° W.; Located at the Mendenhall Bridge Glacier Highway pullout, in Juneau, Alaska.

has been issued to: Keri Williamson – City and Borough of Juneau

on: July 15, 2019 and expires: July 31, 2024

Address of Permittee: 155 Seward Street, Juneau, Alaska 99801

Permit Number:

POA-2018-00476

**FOR: *District Commander*
Randal Vigil
Project Manager
REGULATORY DIVISION**

ENG FORM 4336, Jul 81 (33 CFR 320-330) EDITION OF JUL 70 MAY BE USED

(Proponent: CECW-O)

DEPARTMENT OF THE ARMY PERMIT

Permittee: City and Borough of Juneau – Keri Williamson

Permit No.: POA-2018-00476

Issuing Office: U.S. Army Engineer District, Alaska

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

1. The placement of 950-cubic yards of shot rock and useable excavation, 105-cubic yards of D-1 gravel, and 90-cubic yards of asphalt into 0.78-acres of wetlands along 2,005-linear feet of new trail
2. The installation of a 28-foot long 18-inch diameter corrugated polyethylene pipe culvert
3. The placement of a 38-foot long 24-inch diameter corrugated polyethylene pipe culvert
4. The excavation and removal of approximately 975-cubic yards of existing trail along 1,970-linear feet from 0.36-acres of previously filled wetlands
5. The re-vegetation of 0.36-acres previously filled with native vegetation to allow the area to return to its original conditions
6. The temporary placement of 140-cubic yards of fill material into wetlands on top of geotextile fabric to facilitate the removal of the existing trail and the construction of the new trail.

All work will be performed in accordance with the attached plan, sheets **[1-16]**, dated **[March 5, 2019]**.

Project Location: The project site is located within Section 25, T. 40 S., R. 65 E., Copper River Meridian; USGS Quad Map Juneau B-2; Starting at Latitude 58.371057° N., Longitude -134.602786° W.; Ending at Latitude 58.375857° N., Longitude -134.601454° W.; Located at the Mendenhall Bridge Glacier Highway pullout, in Juneau, Alaska.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **July 31, 2024**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. **Self-Certification:** Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attachment 2) and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorization required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or un-permitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or un-permitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Re-evaluation of Permit Decision. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a re-evaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

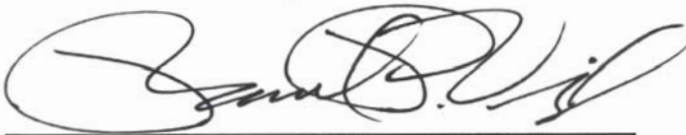


City and Borough of Juneau – Keri Williamson

7/15/2019

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



FOR (DISTRICT COMMANDER)
Colonel Phillip J. Borders
Randal Vigil
South Branch, Regulatory Division

July 15, 2019

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions have the transferee sign and date below.

(TRANSFEEE)

(DATE)

SHEET INDEX

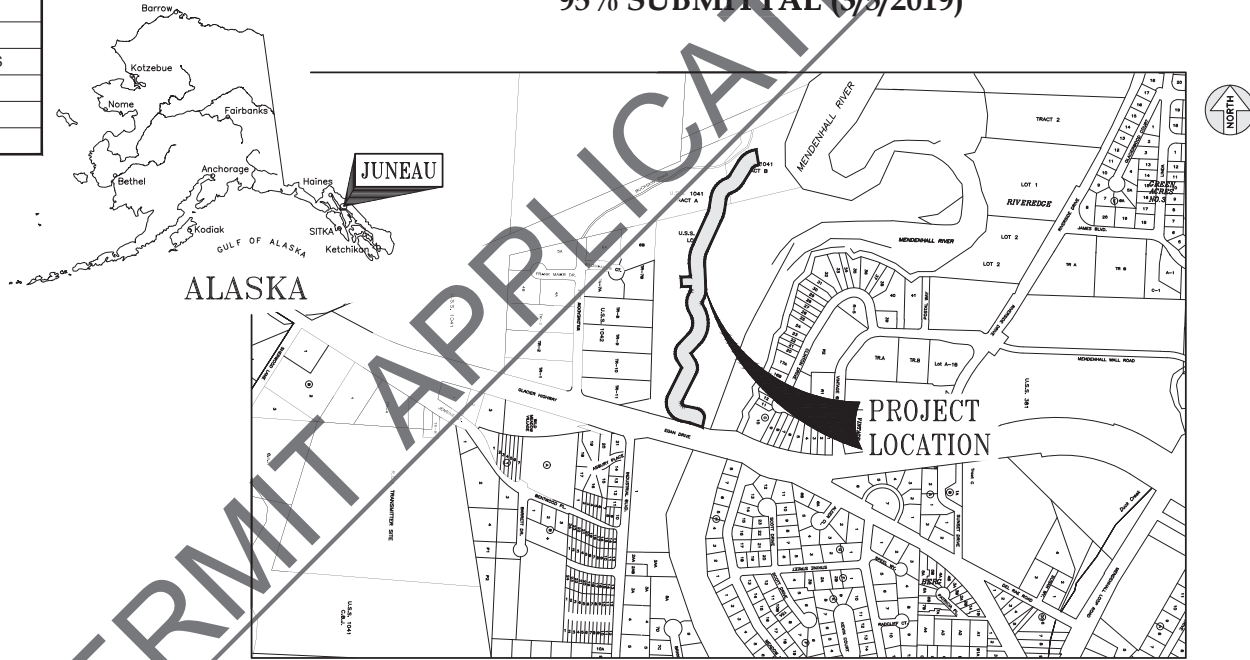
SHEET No.	DESCRIPTION
C001	COVER SHEET
C002	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
C100	EXISTING SITE CONDITIONS SURVEY
C101	EXISTING SITE CONDITIONS SURVEY
C200	TRAIL PLAN VIEW STA 10+00 to STA 16+67
C201	TRAIL PLAN VIEW STA 16+67 to STA 23+00
C202	TRAIL PLAN VIEW STA 23+00 to STA 29+58
C203	TRAIL PLAN VIEW STA 29+58 to STA 30+65
C300	TRAIL PROFILE VIEW STA 10+00 to STA 15+80
C301	TRAIL PROFILE VIEW STA 15+80 to STA 21+80
C302	TRAIL PROFILE VIEW STA 21+80 to STA 27+80
C303	TRAIL PROFILE VIEW STA 27+80 to STA 30+60
C400	TYPICAL SECTION AND CONSTRUCTION DETAILS
C401	EROSION AND SEDIMENT CONTROL DETAILS
C402	TRAFFIC CONTROL AND PEDESTRIAN PLANS
C500	EXISTING TRAIL RECLAMATION PLAN

KAXDIGOOWU HEEN DEI TRAIL RELOCATION

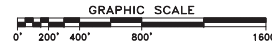
CBJ CONTRACT No. BE19-177

CITY & BOROUGH OF JUNEAU, ALASKA

95% SUBMITTAL (3/5/2019)



PROJECT LOCATION MAP



P:\2019\19000N-CBJL-001\19000N-Cover.dwg PLOT: March 05, 2019 at: 8:05pm

DESIGN ECR
 DRAWN ECR
 CHECK JMP
 APPROVED JMP

No. DATE REVISION



95%
SUBMITTAL

KAXDIGOOWU HEEN DEI TRAIL RELOCATION
 CBJ CONTRACT No. BE19-177
 CITY & BOROUGH OF JUNEAU, ALASKA

COVER SHEET

DATE: March 5, 2019
 PDC No. 19000N

SHEET C001

TABLE OF HORIZONTAL CONTROL			
POINT #	NORTHING	EASTING	DESCRIPTION
CP-1	2,388,851.72	2,506,163.46	2" ALUMINUM CAP, ADOT&PF
CP-2	2,388,827.87	2,506,206.04	3" ALUMINUM CAP IN MONUMENT CASE, ADOT&PF
CP-3	2,388,957.76	2,505,659.39	3" ALUMINUM CAP IN MONUMENT CASE, ADOT&PF
CP-4	2,388,933.97	2,505,804.82	2" ALUMINUM CAP, ADOT&PF
CP-5	2,388,871.34	2,506,119.94	2" ALUMINUM CAP, ADOT&PF
CP-6	2,388,847.39	2,506,263.51	2" ALUMINUM CAP, ADOT&PF
CP-7	2,388,671.59	2,506,504.08	MAG NAIL (NOT SHOWN ON PLANS)

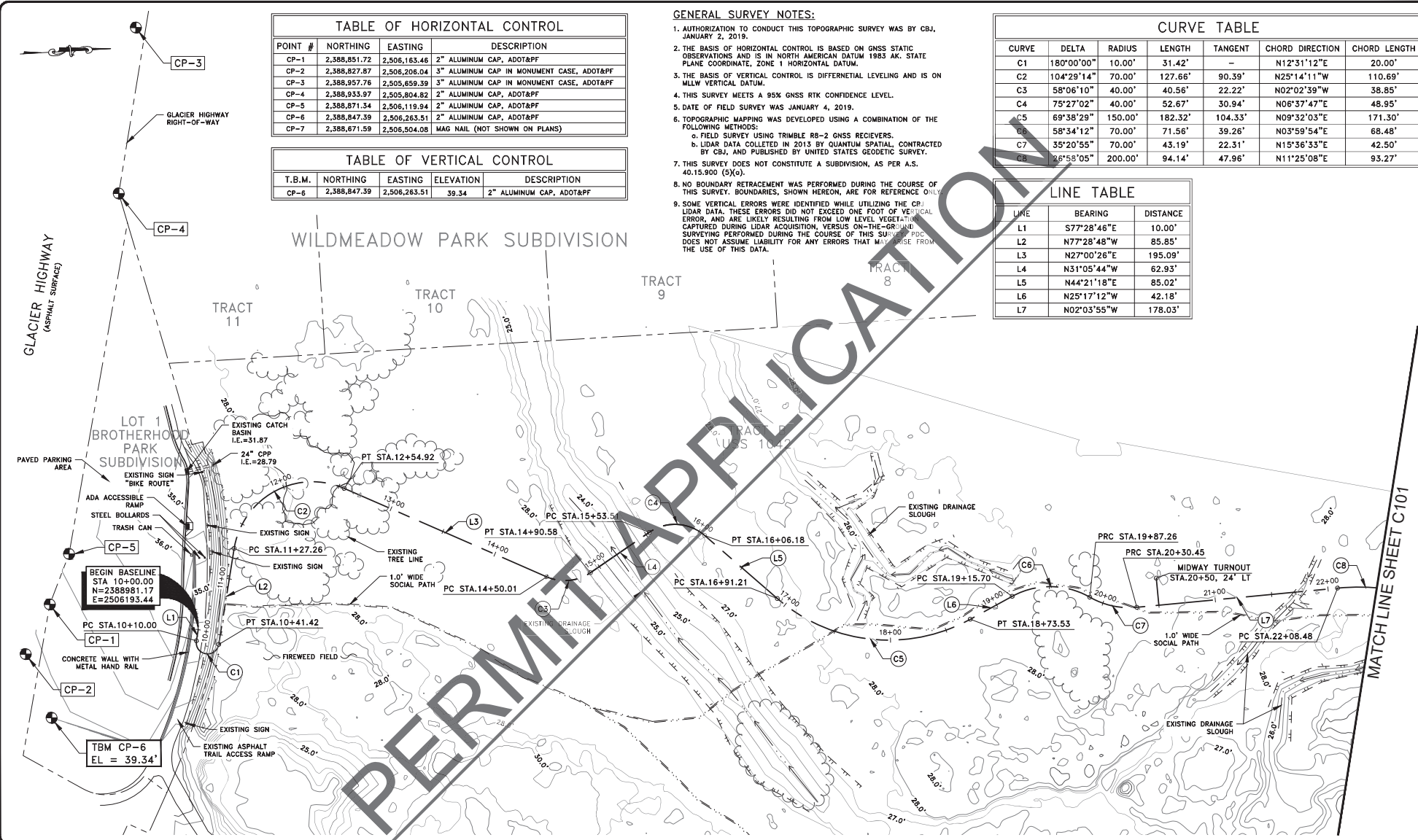
TABLE OF VERTICAL CONTROL				
T.B.M.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-6	2,388,847.39	2,506,263.51	39.34	2" ALUMINUM CAP, ADOT&PF

GENERAL SURVEY NOTES:

- AUTHORIZATION TO CONDUCT THIS TOPOGRAPHIC SURVEY WAS BY CBJ, JANUARY 2, 2019.
- THE BASIS OF HORIZONTAL CONTROL IS BASED ON GNSS STATIC OBSERVATIONS AND IS IN NORTH AMERICAN DATUM 1983 AK STATE PLANE COORDINATE, ZONE 1 HORIZONTAL DATUM.
- THE BASIS OF VERTICAL CONTROL IS DIFFERENTIAL LEVELING AND IS ON MLLW VERTICAL DATUM.
- THIS SURVEY MEETS A 95% GNSS RTK CONFIDENCE LEVEL.
- DATE OF FIELD SURVEY WAS JANUARY 4, 2019.
- TOPOGRAPHIC MAPPING WAS DEVELOPED USING A COMBINATION OF THE FOLLOWING METHODS:
 - FIELD SURVEY USING TRIMBLE R8-2 GNSS RECEIVERS.
 - LIDAR DATA COLLECTED IN 2013 BY QUANTUM SPATIAL, CONTRACTED BY CBJ, AND PUBLISHED BY UNITED STATES GEODETIC SURVEY.
- THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION, AS PER A.S. 40.15.900 (5)(c).
- NO BOUNDARY RETRACEMENT WAS PERFORMED DURING THE COURSE OF THIS SURVEY. BOUNDARIES, SHOWN HEREON, ARE FOR REFERENCE ONLY.
- SOME VERTICAL ERRORS WERE IDENTIFIED WHILE UTILIZING THE CP LIDAR DATA, THESE ERRORS DID NOT EXCEED ONE FOOT OF VERTICAL ERROR, AND ARE LIKELY RESULTING FROM LOW LEVEL VEGETATION CAPTURED DURING LIDAR ACQUISITION, VERSUS ON-THE-GROUND SURVEYING PERFORMED DURING THE COURSE OF THIS SURVEY. PDC DOES NOT ASSUME LIABILITY FOR ANY ERRORS THAT MAY ARISE FROM THE USE OF THIS DATA.

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD DIRECTION	CHORD LENGTH
C1	180°00'00"	10.00'	31.42'	-	N12°31'12"E	20.00'
C2	104°29'14"	70.00'	127.66'	90.39'	N25°14'11"W	110.69'
C3	58°06'10"	40.00'	40.56'	22.22'	N02°02'39"W	38.85'
C4	75°27'02"	40.00'	52.67'	30.94'	N08°37'47"E	48.95'
C5	69°38'29"	150.00'	182.32'	104.33'	N09°32'03"E	171.30'
C6	58°34'12"	70.00'	71.56'	39.26'	N03°59'54"E	68.48'
C7	35°20'55"	70.00'	43.19'	22.31'	N15°36'33"E	42.50'
C8	26°58'05"	200.00'	94.14'	47.96'	N11°25'08"E	93.27'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S77°28'46"E	10.00'
L2	N77°28'48"W	85.85'
L3	N27°00'28"E	195.09'
L4	N31°05'44"W	62.93'
L5	N44°21'18"E	85.02'
L6	N25°17'12"W	42.18'
L7	N02°03'55"W	178.03'



PERMIT APPLICATION

DESIGN	ECR
DRAWN	ECR
CHECK	JMP
APPROVED	JMP



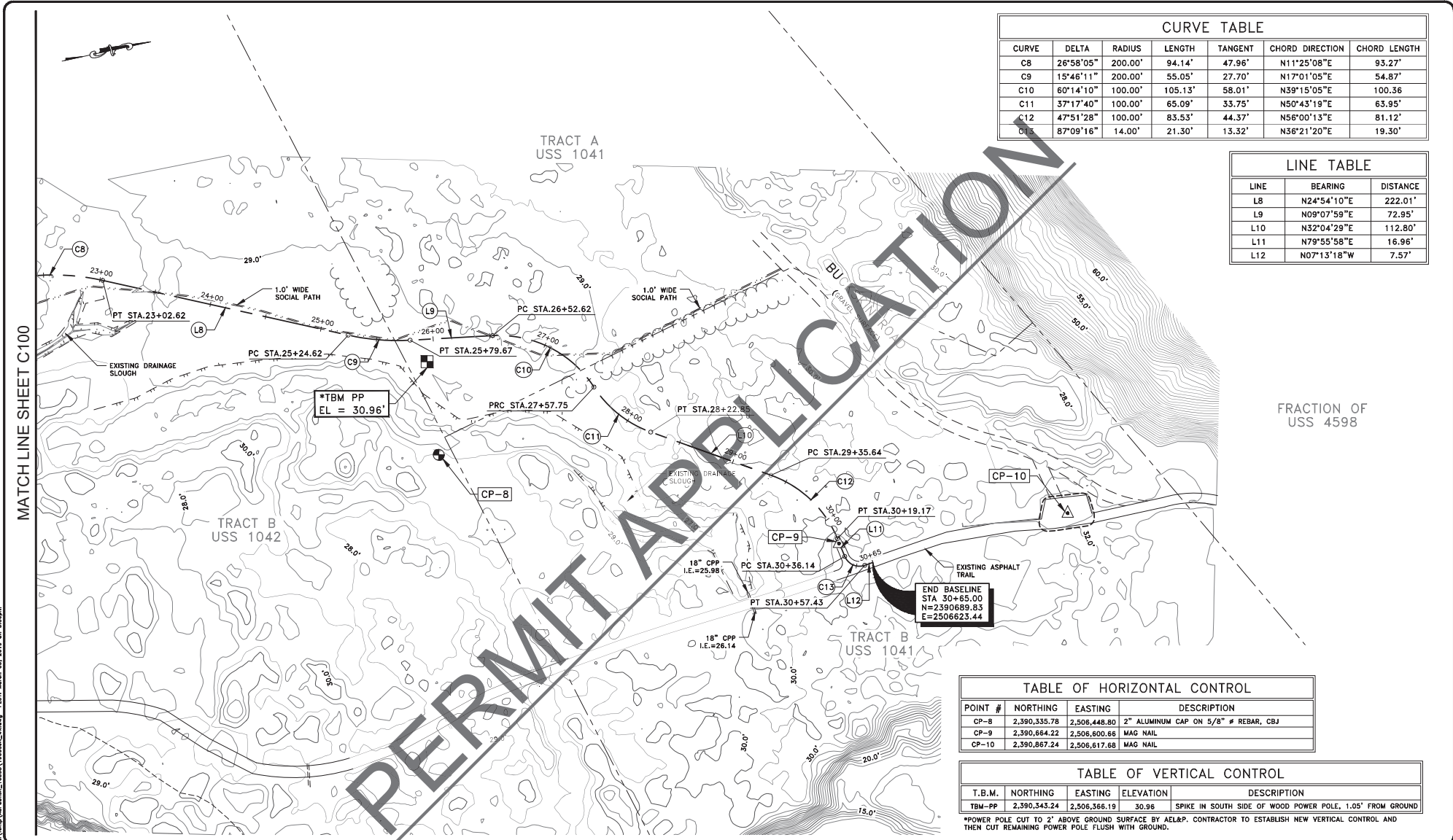
95%
SUBMITTAL

KAXDIGOOUWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

EXISTING SITE CONDITIONS
SURVEY

SCALE: 1" = 40'
CONTOUR INTERVAL = 1 FOOT

DATE: March 5, 2019
PDC No.: 19000201
SHEET
C100



CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD DIRECTION	CHORD LENGTH
C8	26°58'05"	200.00'	94.14'	47.96'	N11°25'08"E	93.27'
C9	15°46'11"	200.00'	55.05'	27.70'	N17°01'05"E	54.87'
C10	60°14'10"	100.00'	105.13'	58.01'	N39°15'05"E	100.36'
C11	37°17'40"	100.00'	65.09'	33.75'	N50°43'19"E	63.95'
C12	47°51'28"	100.00'	83.53'	44.37'	N58°00'13"E	81.12'
C13	87°09'16"	14.00'	21.30'	13.32'	N36°21'20"E	19.30'

LINE TABLE		
LINE	BEARING	DISTANCE
L8	N24°54'10"E	222.01'
L9	N09°07'59"E	72.95'
L10	N32°04'29"E	112.80'
L11	N79°55'58"E	16.96'
L12	N07°13'18"W	7.57'

TABLE OF HORIZONTAL CONTROL			
POINT #	NORTHING	EASTING	DESCRIPTION
CP-8	2,390,335.78	2,505,448.80	2" ALUMINUM CAP ON 5/8" # REBAR, CBJ
CP-9	2,390,664.22	2,506,800.66	MAC NAIL
CP-10	2,390,867.24	2,506,617.68	MAC NAIL

TABLE OF VERTICAL CONTROL				
T.B.M.	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM-PP	2,390,543.24	2,506,366.19	30.96	SPIKE IN SOUTH SIDE OF WOOD POWER POLE, 1.05' FROM GROUND

*POWER POLE CUT TO 2' ABOVE GROUND SURFACE BY AEL&P. CONTRACTOR TO ESTABLISH NEW VERTICAL CONTROL AND THEN CUT REMAINING POWER POLE FLUSH WITH GROUND.

MATCH LINE SHEET C100

C:\Users\lbrunswick\Documents\lbrunswick\Temp\lbrunswick\18000A\18000A.dwg PLOT: March 05, 2019 at 3:06pm

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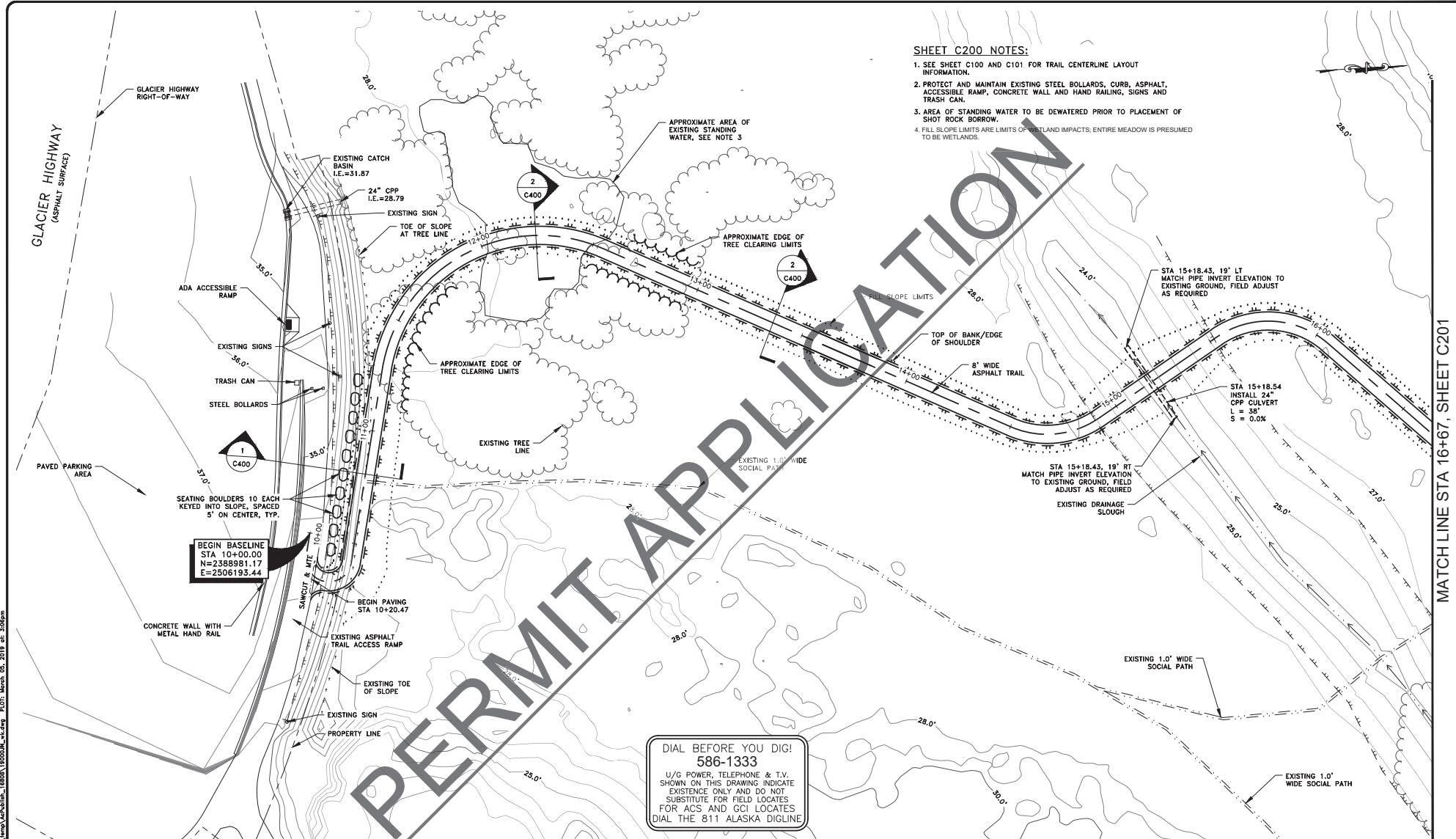


95%
SUBMITTAL

KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

EXISTING SITE CONDITIONS
SURVEY

DATE: March 5, 2019
PDC No. 1900020
SHEET
C101



- SHEET C200 NOTES:**
1. SEE SHEET C100 AND C101 FOR TRAIL CENTERLINE LAYOUT INFORMATION.
 2. PROTECT AND MAINTAIN EXISTING STEEL BOLLARDS, CURB, ASPHALT, ACCESSIBLE RAMP, CONCRETE WALL AND HAND RAILING, SIGNS AND TRASH CAN.
 3. AREA OF STANDING WATER TO BE DEWATERED PRIOR TO PLACEMENT OF SHOT ROCK BORROW.
 4. FILL SLOPE LIMITS ARE LIMITS OF WETLAND IMPACTS. ENTIRE MEADOW IS PRESUMED TO BE WETLANDS.

DIAL BEFORE YOU DIG!
586-1333
 U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES FOR ACS AND CCI LOCATES DIAL THE 811 ALASKA DIGLINE

C:\Users\kbrunswick\appdata\local\temp\kxbrun_10000M_wsl.dwg PLOT: March 05, 2019 at 3:06pm

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APPROVED	JMP	
No.	DATE	REVISION



**95%
SUBMITTAL**

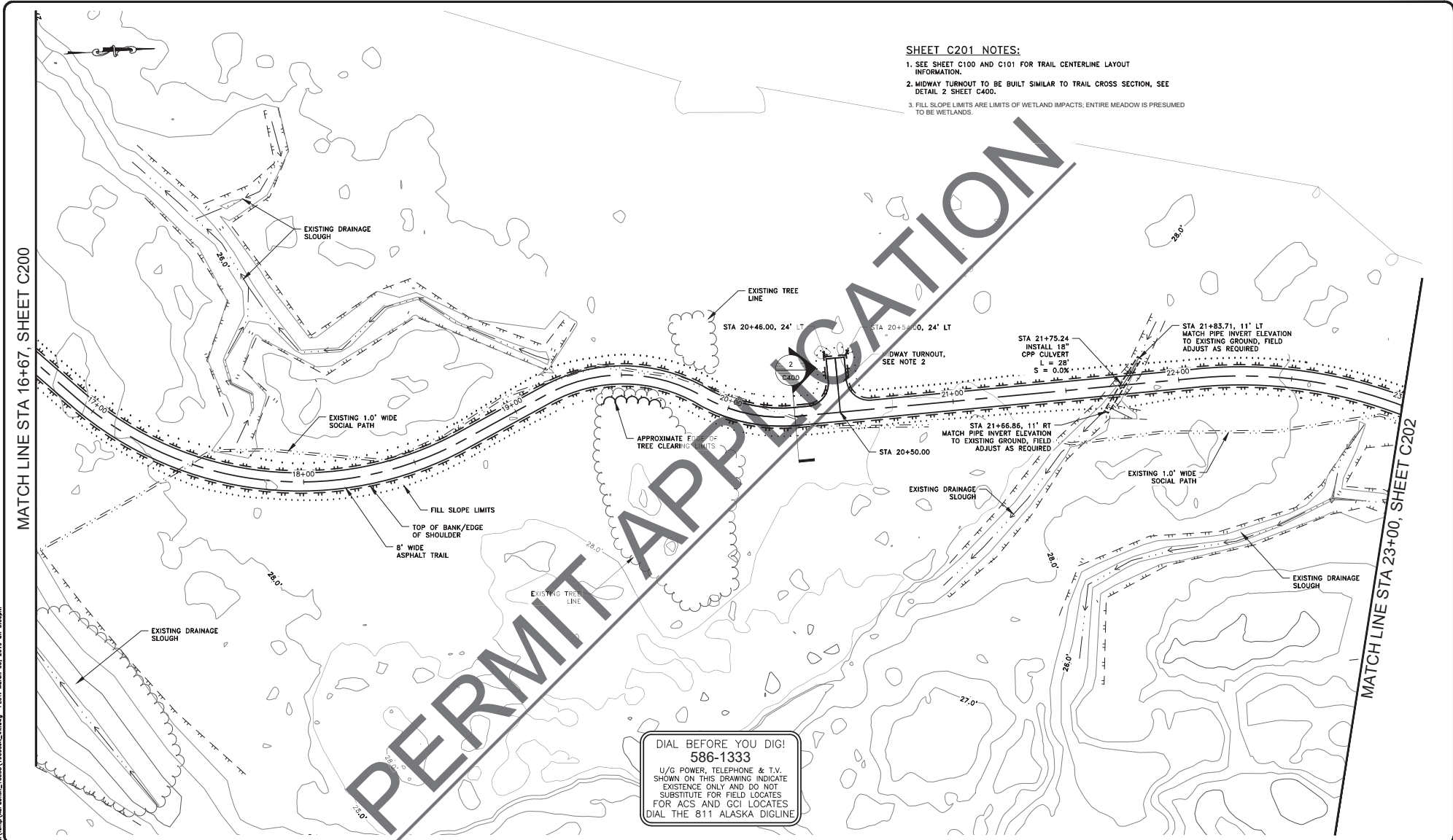
**KAXDIGOOWU HEEN DEI
TRAIL RELOCATION**
 CBJ CONTRACT No. BE19-177
 CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PLAN VIEW
 STA 10+00 TO STA 16+67

SCALE: 1"=20'
 CONTOUR INTERVAL = 1 FOOT

DATE: March 5, 2019
 PDC No.: 192002JL
 SHEET **C200**

MATCH LINE STA 16+67, SHEET C201



- SHEET C201 NOTES:**
1. SEE SHEET C100 AND C101 FOR TRAIL CENTERLINE LAYOUT INFORMATION.
 2. MIDWAY TURNOUT TO BE BUILT SIMILAR TO TRAIL CROSS SECTION, SEE DETAIL 2 SHEET C400.
 3. FILL SLOPE LIMITS ARE LIMITS OF WETLAND IMPACTS, ENTIRE MEADOW IS PRESUMED TO BE WETLANDS.

DIAL BEFORE YOU DIG!
586-1333
 U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES FOR ACS AND GCI LOCATES DIAL THE 811 ALASKA DIGLINE

MATCH LINE STA 16+67, SHEET C200

MATCH LINE STA 23+00, SHEET C202

DESIGN	ECR
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APPROVED	JMP

No.	DATE	REVISION



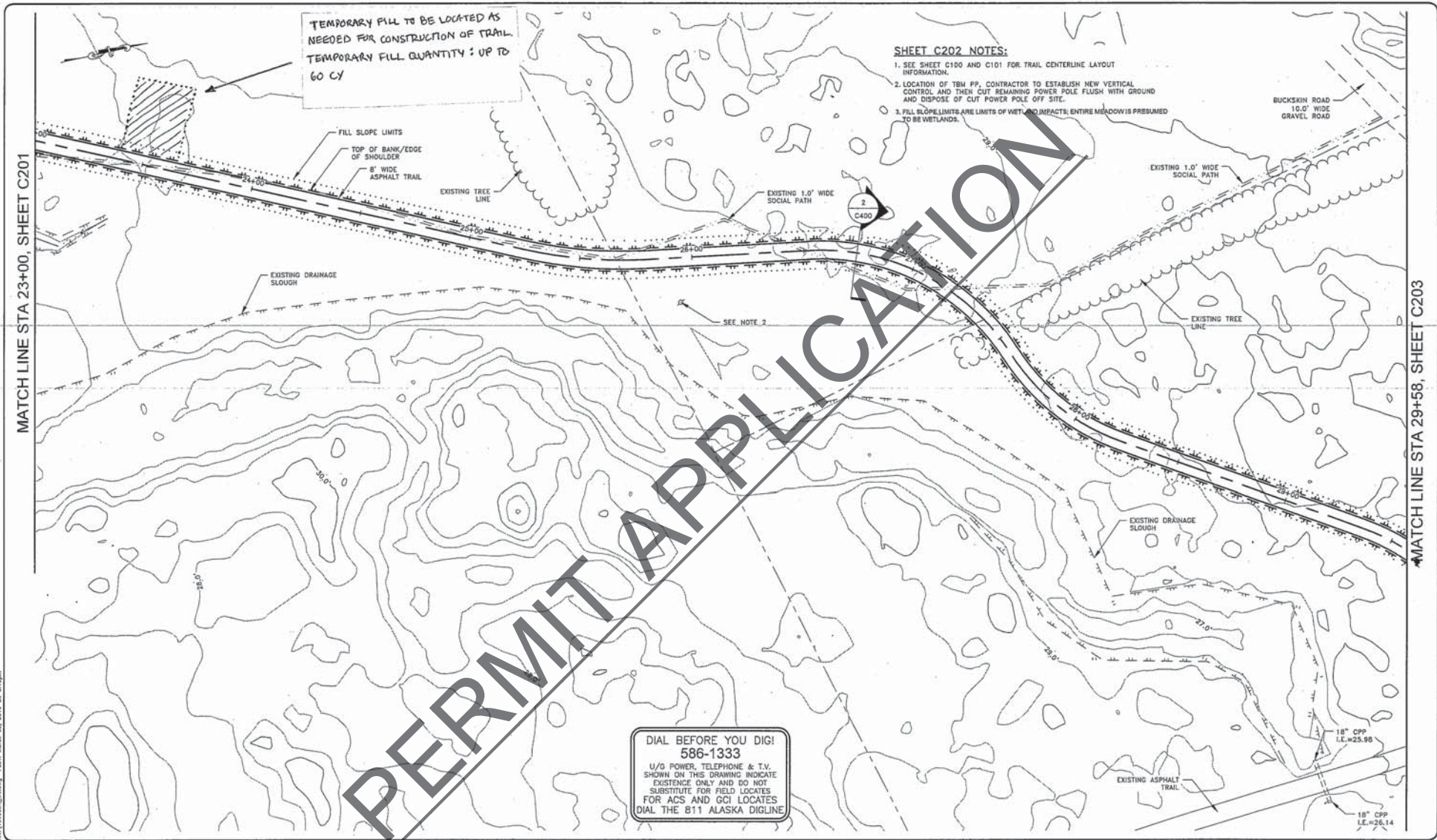
95% SUBMITTAL

KAXDIGOOWU HEEN DEI TRAIL RELOCATION
 CBJ CONTRACT No. BE19-177
 CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PLAN VIEW
 STA 16+67 TO STA 23+00

SCALE: 1"=20'
 CONTOUR INTERVAL = 1 FOOT

DATE: March 5, 2019
PDC No. 190002JL
SHEET
C201



TEMPORARY FILL TO BE LOCATED AS NEEDED FOR CONSTRUCTION OF TRAIL.
TEMPORARY FILL QUANTITY: UP TO 60 CY

- SHEET C202 NOTES:**
1. SEE SHEET C100 AND C101 FOR TRAIL CENTERLINE LAYOUT INFORMATION.
 2. LOCATION OF TRM PP, CONTRACTOR TO ESTABLISH NEW VERTICAL CONTROL AND THEN CUT REMAINING POWER POLE FLUSH WITH GROUND AND DISPOSE OF CUT POWER POLE OFF SITE.
 3. FILL SLOPE LIMITS ARE LIMITS OF WETLAND IMPACTS; ENTIRE MEADOW IS PRESUMED TO BE WETLANDS.

DIAL BEFORE YOU DIG!
586-1333
U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES FOR ACS AND GCI LOCATES DIAL THE 811 ALASKA DIGLINE

MATCH LINE STA 23+00, SHEET C201

MATCH LINE STA 29+58, SHEET C203

DESIGN	ECR
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APPROVED	JMP
DATE	REVISION

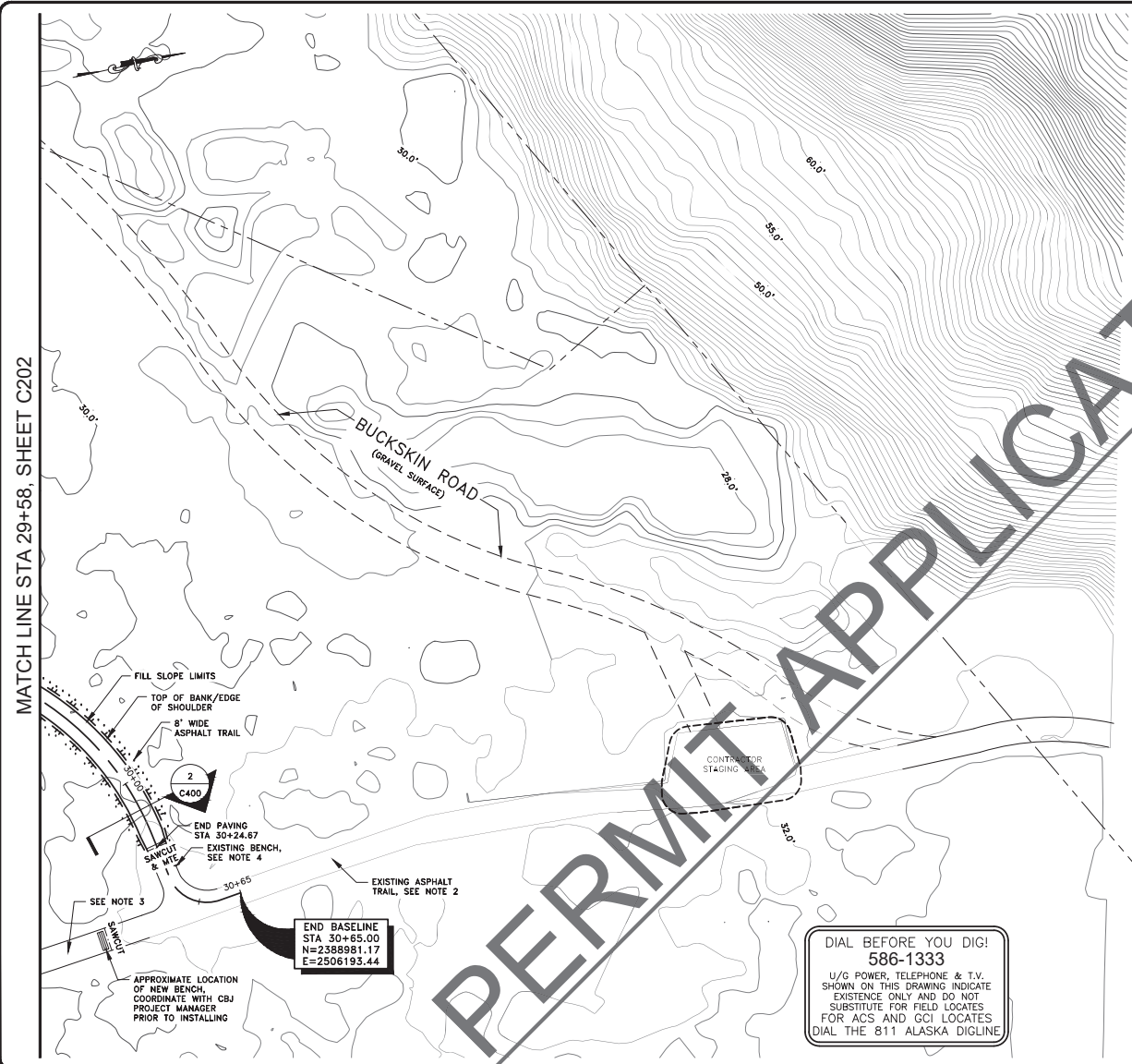


95%
SUBMITTAL

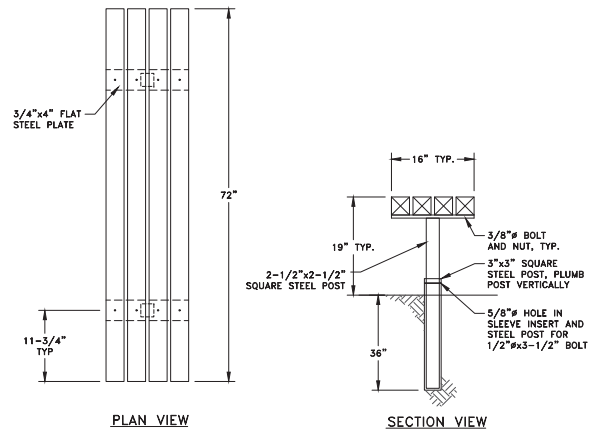
KAXDIGOOWU HEEN DEI TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PLAN VIEW
STA 23+00 TO STA 29+58

DATE: March 5, 2019
PGC No.: 19003B
SHEET: C202



- SHEET C203 NOTES:**
1. SEE SHEET C100 AND C101 FOR TRAIL CENTERLINE LAYOUT INFORMATION.
 2. PROTECT AND MAINTAIN EXISTING ASPHALT TRAIL.
 3. SEE SHEET C500 FOR EXISTING TRAIL RECLAMATION PLAN.
 4. SALVAGE EXISTING BENCH AND RELOCATE BENCH TO STA 30+40, 30.4 RT. SEE DETAIL 1 THIS SHEET.
 5. FILL SLOPE LIMITS ARE LIMITS OF WETLAND IMPACTS; ENTIRE MEADOW IS PRESUMED TO BE WETLANDS.



1 PARK BENCH DETAIL
N.T.S.

DIAL BEFORE YOU DIG!
586-1333

U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES FOR ACS AND GCI LOCATES. DIAL THE 811 ALASKA DIGLINE

DESIGN	ECR	
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No.	DATE	REVISION



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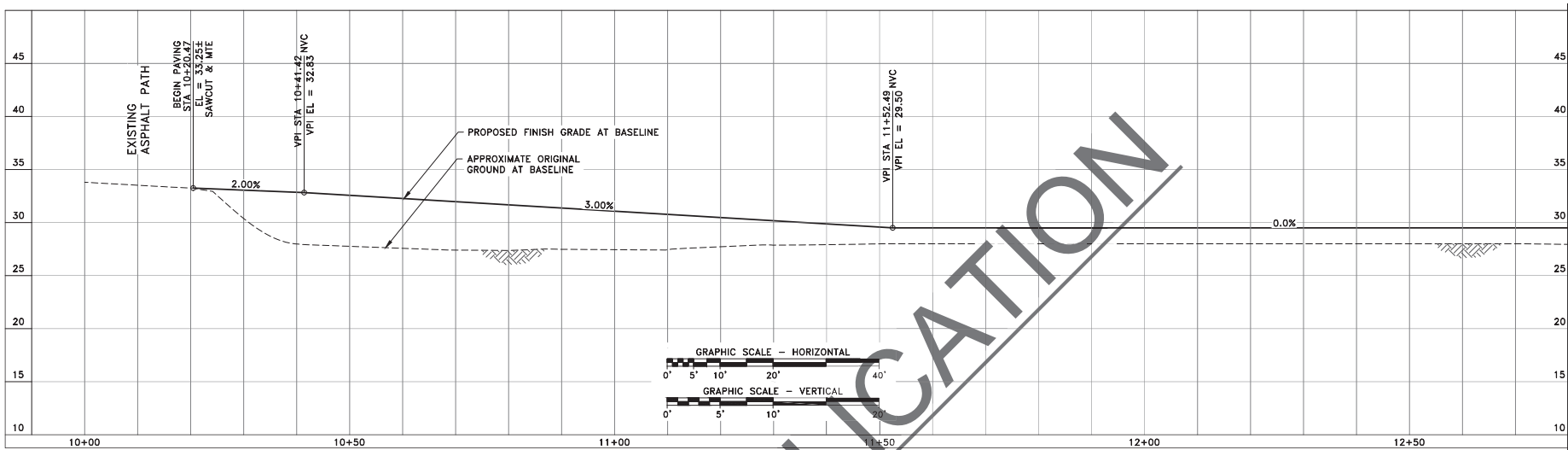
KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PLAN VIEW
STA 29+58 TO STA 30+65

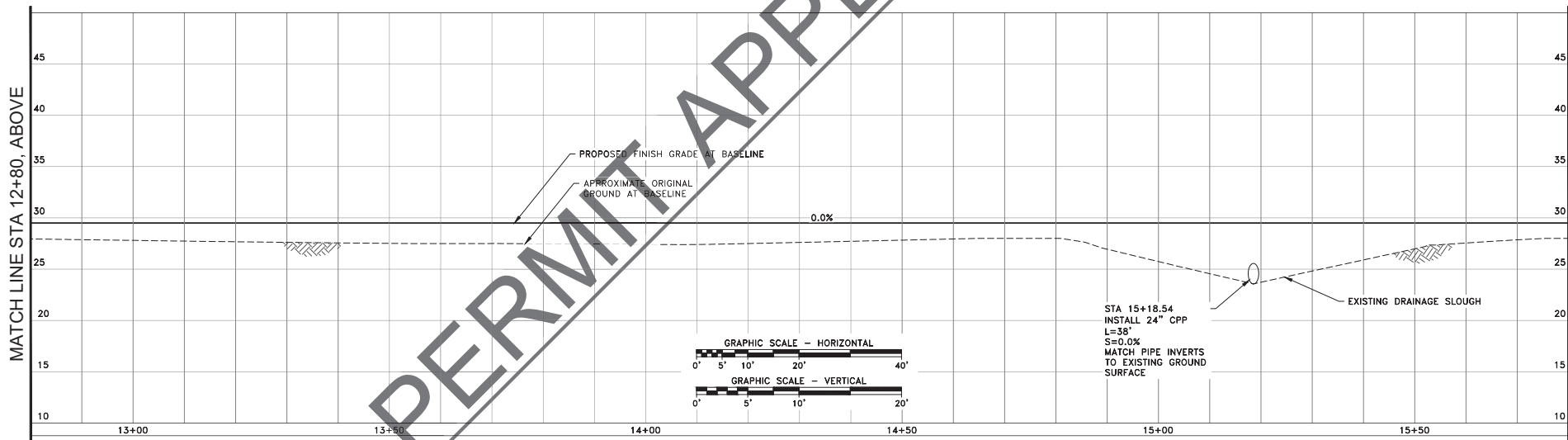
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CONTOUR INTERVAL = 1 FOOT

DATE: March 5, 2019
PDC No. 190002JL
SHEET
C203

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MATCH LINE STA 12+80, BELOW



MATCH LINE STA 15+80, SHEET C301

PERMIT APPLICATION

DESIGN ECR
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 CHECK JMP
 APPROVED JMP

No.	DATE	REVISION



95%
SUBMITTAL

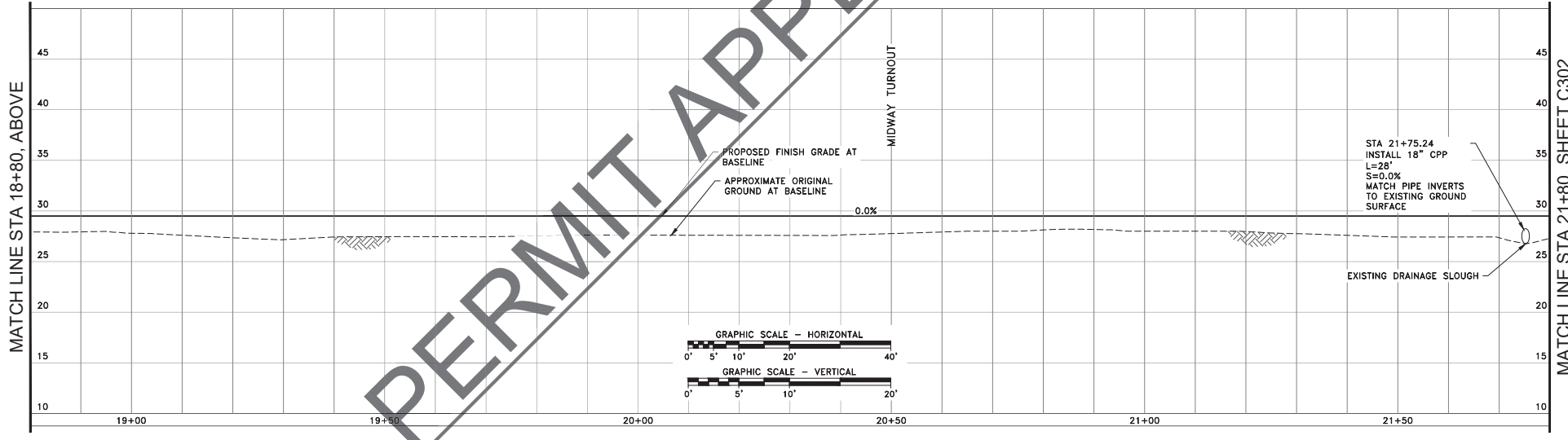
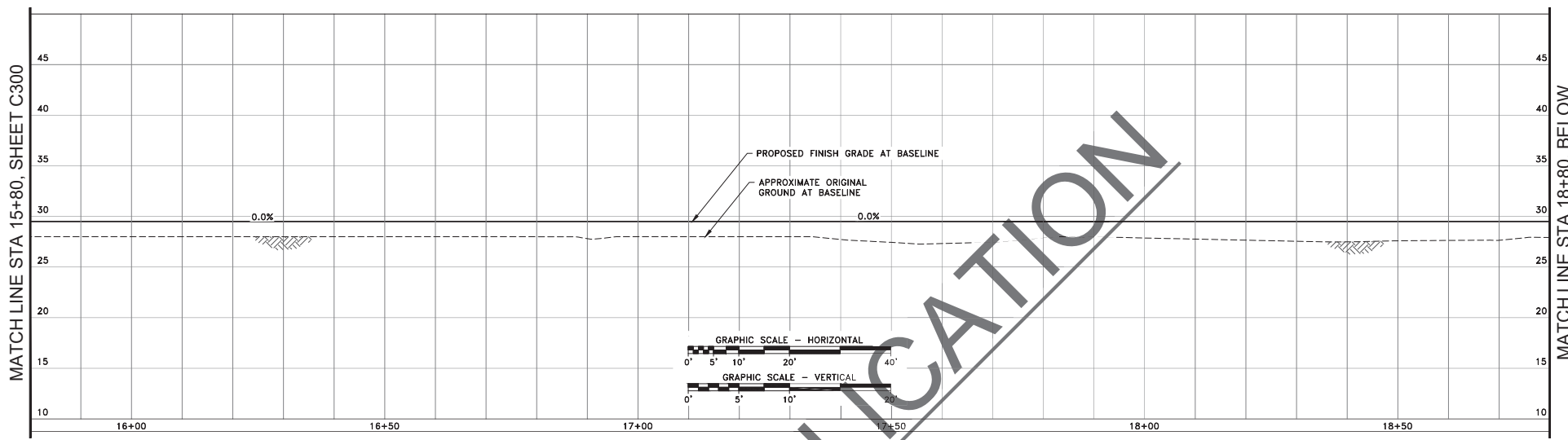
KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PROFILE VIEW
STA 10+00 TO STA 15+80

DATE: March 5, 2019
 PDC No. 190002J
 SHEET
C300

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PERMIT APPLICATION

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 CHECK JMP
 APPROVED JMP

No.	DATE	REVISION



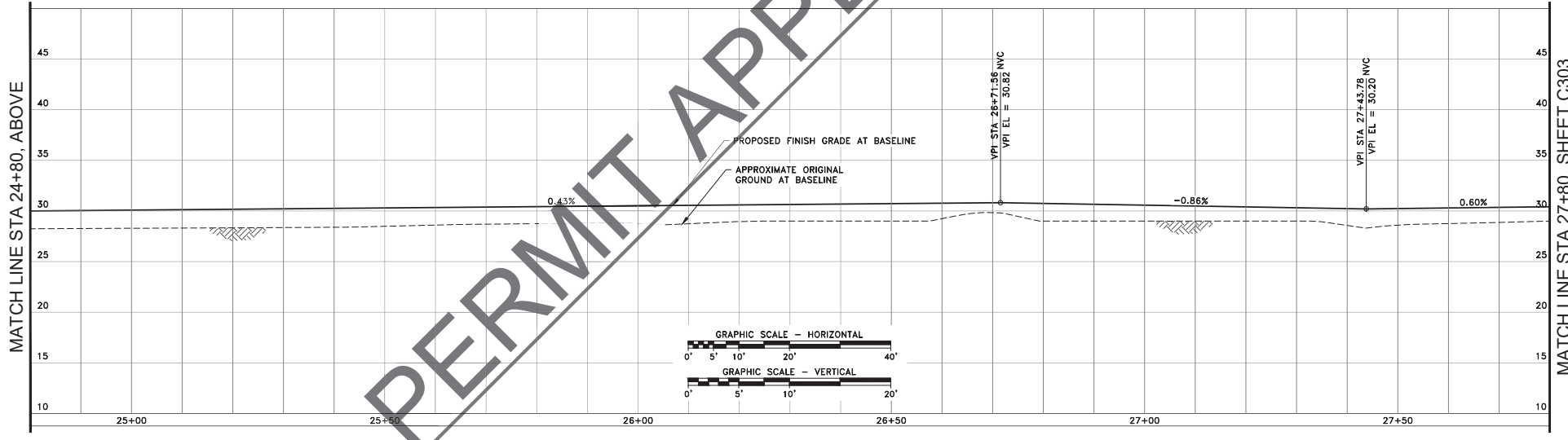
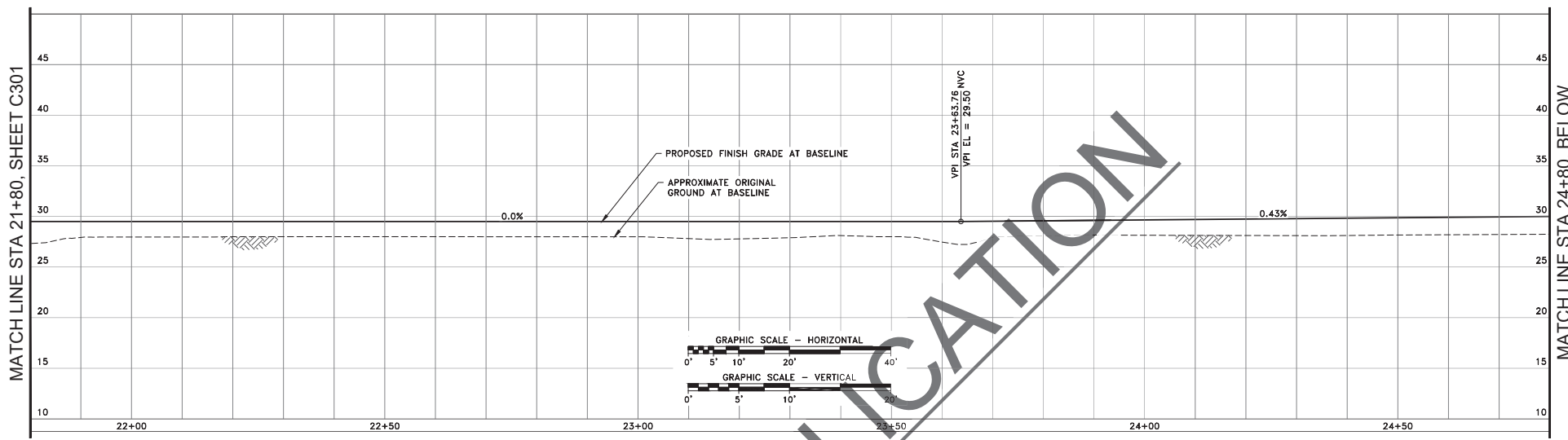
95%
SUBMITTAL

KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PROFILE VIEW
STA 15+80 TO STA 21+80

DATE: March 5, 2019
PDC No. 190002J
SHEET C301

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PERMIT APPLICATION

DESIGN ECR
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 CHECK JMP
 APPROVED JMP

No.	DATE	REVISION



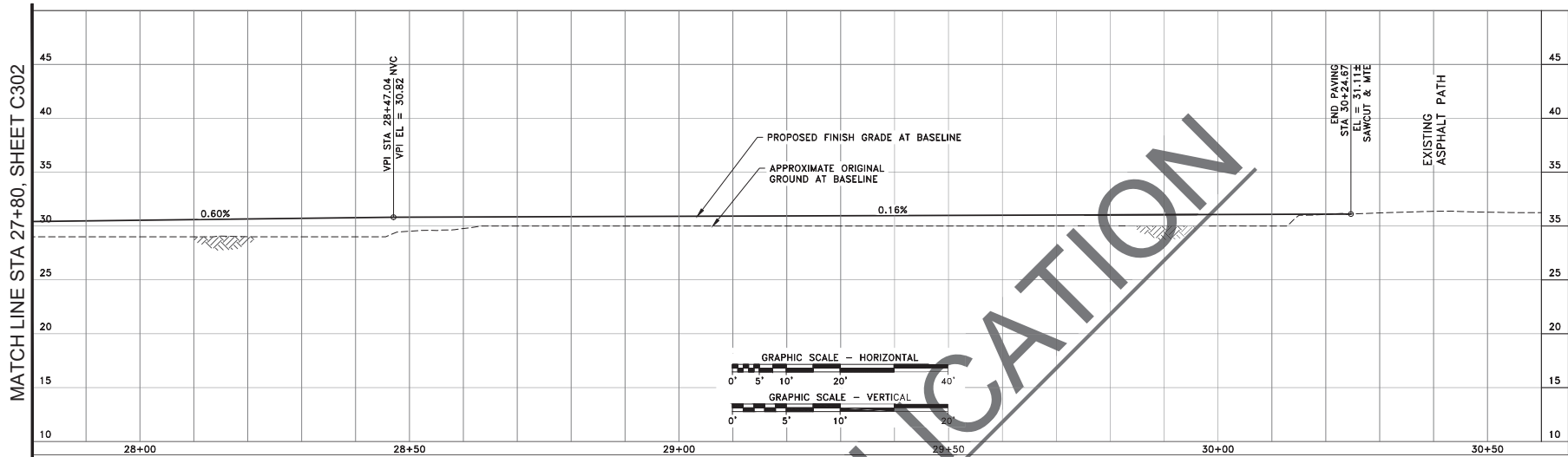
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KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PROFILE VIEW
STA 21+80 TO STA 27+80

DATE: March 5, 2019
PDC No. 190002J
SHEET C302

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PERMIT APPLICATION

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No.	DATE	REVISION

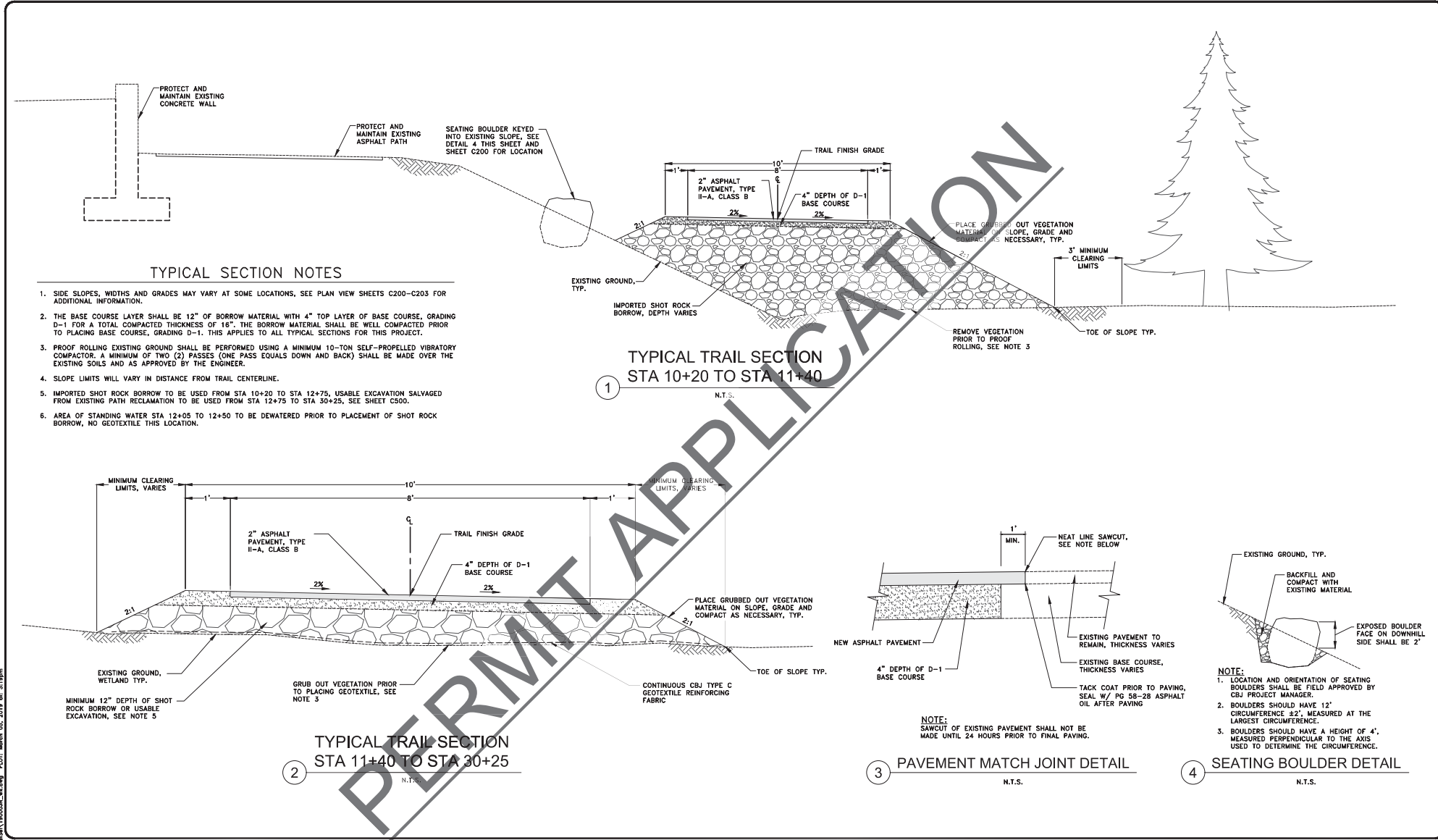


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SUBMITTAL

KAXDIGOOUWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAIL PROFILE VIEW
STA 27+80 TO STA 30+60

DATE: March 5, 2019
PDC No. 19000A
SHEET C303



TYPICAL SECTION NOTES

- SIDE SLOPES, WIDTHS AND GRADES MAY VARY AT SOME LOCATIONS, SEE PLAN VIEW SHEETS C200-C205 FOR ADDITIONAL INFORMATION.
- THE BASE COURSE LAYER SHALL BE 12" OF BORROW MATERIAL WITH 4" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 16". THE BORROW MATERIAL SHALL BE WELL COMPACTED PRIOR TO PLACING BASE COURSE, GRADING D-1. THIS APPLIES TO ALL TYPICAL SECTIONS FOR THIS PROJECT.
- PROOF ROLLING EXISTING GROUND SHALL BE PERFORMED USING A MINIMUM 10-TON SELF-PROPELLED VIBRATORY COMPACTOR. A MINIMUM OF TWO (2) PASSES (ONE PASS EQUALS DOWN AND BACK) SHALL BE MADE OVER THE EXISTING SOILS AND AS APPROVED BY THE ENGINEER.
- SLOPE LIMITS WILL VARY IN DISTANCE FROM TRAIL CENTERLINE.
- IMPORTED SHOT ROCK BORROW TO BE USED FROM STA 10+20 TO STA 12+75, USABLE EXCAVATION SALVAGED FROM EXISTING PATH RECLAMATION TO BE USED FROM STA 12+75 TO STA 30+25, SEE SHEET C500.
- AREA OF STANDING WATER STA 12+05 TO 12+50 TO BE DEWATERED PRIOR TO PLACEMENT OF SHOT ROCK BORROW, NO GEOTEXTILE THIS LOCATION.

**TYPICAL TRAIL SECTION
STA 10+20 TO STA 11+40**

**TYPICAL TRAIL SECTION
STA 11+40 TO STA 30+25**

PAVEMENT MATCH JOINT DETAIL

SEATING BOULDER DETAIL

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APPROVED	JMP

No.	DATE	REVISION



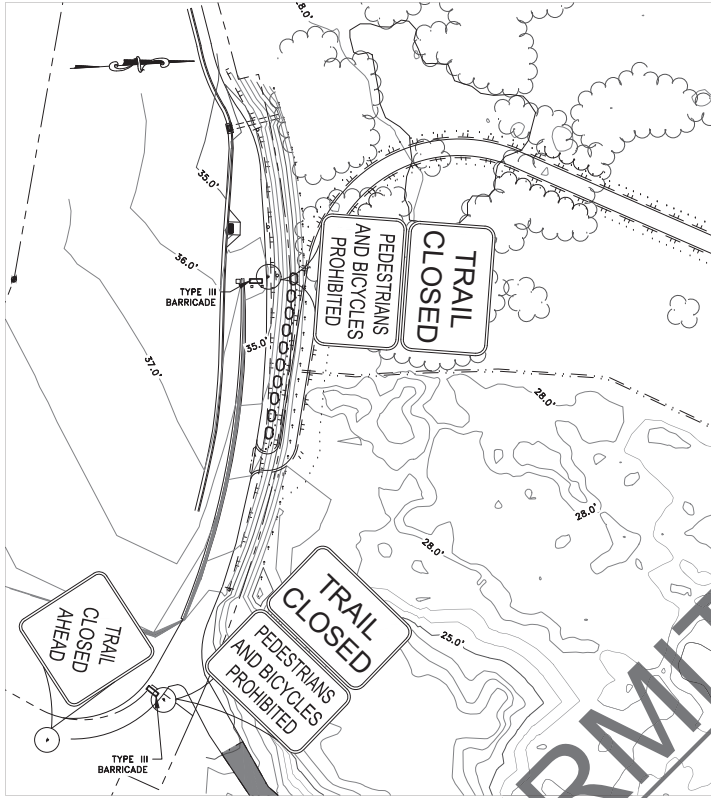
**95%
SUBMITTAL**

**KAXDIGOOWU HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA**

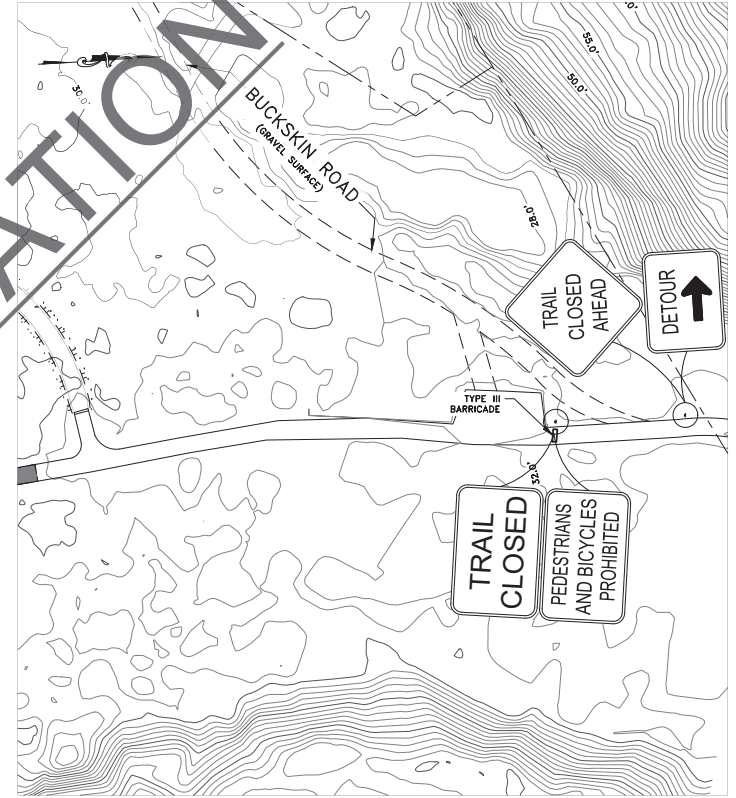
**TYPICAL SECTION AND
CONSTRUCTION DETAILS**

DATE: March 5, 2019
PDC No. 190000
SHEET C400

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1 TRAFFIC CONTROL AND PEDESTRIAN PLANS - SOUTH TIE-IN
N.T.S.



2 TRAFFIC CONTROL AND PEDESTRIAN PLANS - NORTH TIE-IN
N.T.S.

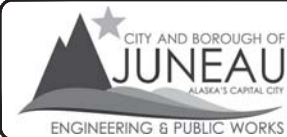
SHEET 402 NOTES:

1. WITH THE EXCEPTION OF PAVING OPERATIONS THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC FLOW FROM THE DETOUR ALONG BUCKSKIN ROAD TO THE REMAINDER OF THE KAXDIGOOUW HEEN DEI TRAIL NORTH OF THIS PROJECT.
2. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SIGNAGE AS NECESSARY FOR MAINTAINING A SAFE WORK ZONE AND ALLOWING PEDESTRIANS TO SAFELY TRAVEL ALONG BUCKSKIN ROAD TO ACCESS THE KAXDIGOOUW HEEN DEI TRAIL NORTH OF THE WORK ZONE.
3. INSTALL AND MAINTAIN CONSTRUCTION WARNING SIGNS AS SHOWN AND AS APPROVED BY THE ENGINEER.

PERMIT APPLICATION

DESIGN ECR
DRAWN ECR
CHECK JMP
APPROVED JMP

No. DATE REVISION



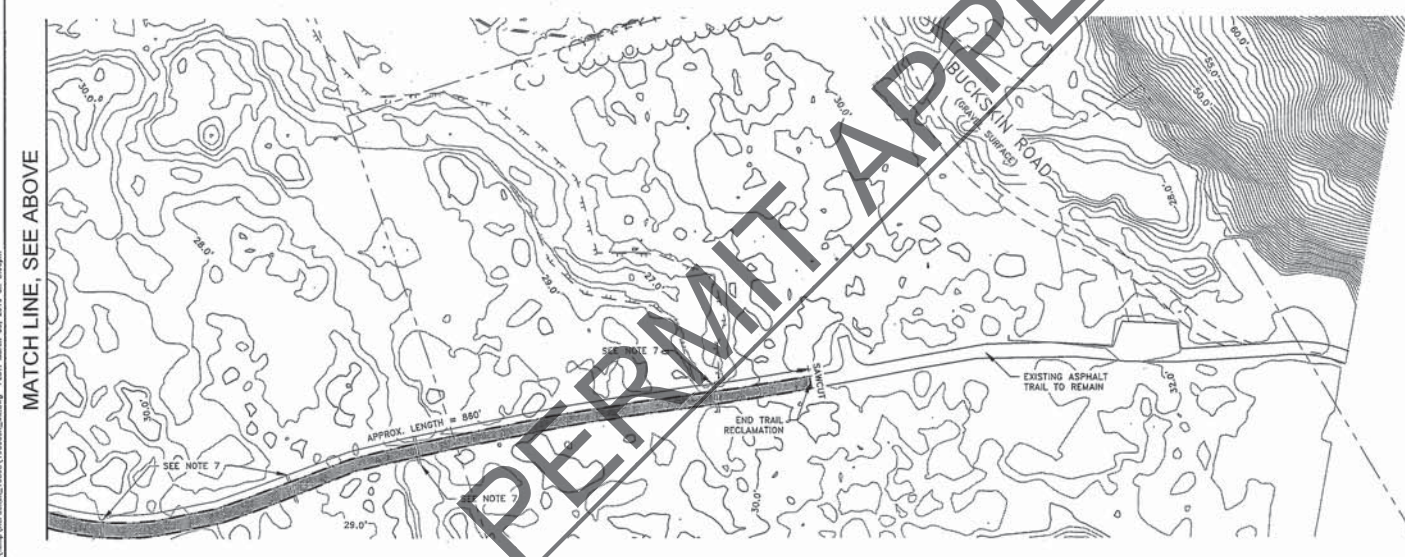
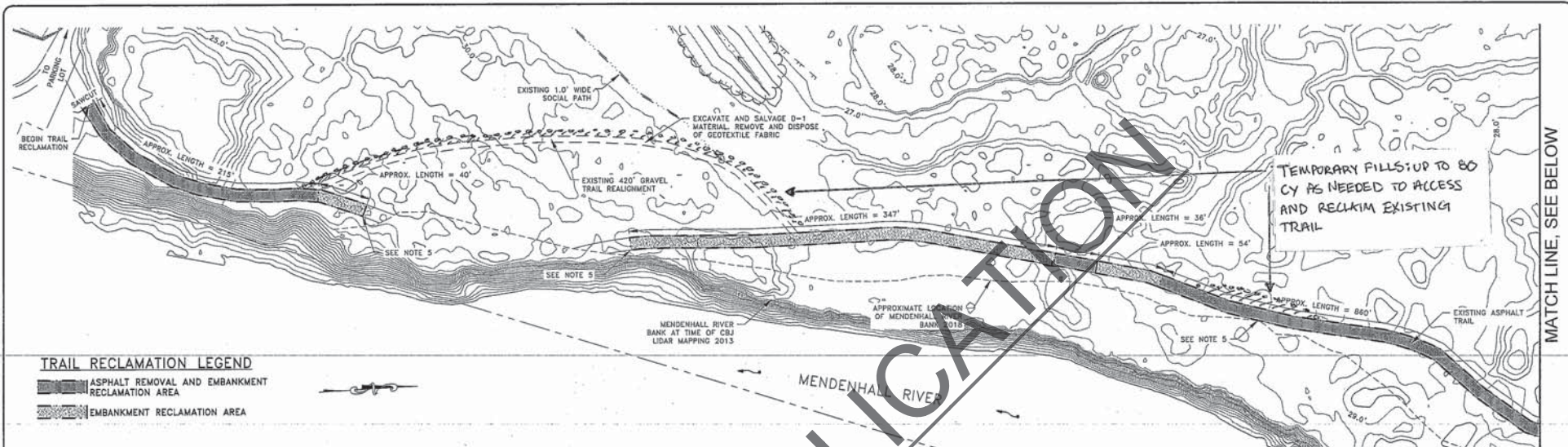
95%
SUBMITTAL

KAXDIGOOUW HEEN DEI
TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

TRAFFIC CONTROL AND
PEDESTRIAN PLANS

SCALE: 1"=30'
CONTOUR INTERVAL = 1 FOOT

DATE: March 5, 2019
PDC No. 192002JL
SHEET
C402



DESIGN	ECR
DRAWN	ECR
CHECK	JMP
APPROVED	JMP

CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY
ENGINEERING & PUBLIC WORKS

PDC ENGINEERS
PLAN • DESIGN • CONSTRUCT
6205 Glacier Highway, Juneau, Alaska 99801
907.780.8060 | AECC0609

95%
SUBMITTAL

KAXDIGOOWU HEEN DEI TRAIL RELOCATION
CBJ CONTRACT No. BE19-177
CITY & BOROUGH OF JUNEAU, ALASKA

EXISTING TRAIL RECLAMATION PLAN

SCALE: 1"=40'
CONTOUR INTERVAL = 1 FOOT

DATE	March 5, 2019
PDC No.	1900020
SHEET	C500



THE STATE
of **ALASKA**
GOVERNOR MICHAEL J. DUNLEAVY

Department of Environmental Conservation

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.334.2415
www.dec.alaska.gov/water/wwdp

May 22, 2019

City and Borough of Juneau
Attn: Keri Williamson
155 South Seward Street
Juneau, Alaska 99801

Re: City and Borough of Juneau, Kaxdigoowu Heen Die Trail Improvements
POA-2018-476, Mendenhall River

Dear Ms. Williamson:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation (DEC) is issuing the enclosed Certificate of Reasonable Assurance for placement of dredged and/or fill material in waters of the U.S., including wetlands and streams, associated with re-routing and improving a portion of the Kaxdigoowu Heen Die Trail to provide erosion control along the trail.

DEC regulations provide that any person who disagrees with this decision may request an informal review by the Division Director in accordance with 18 AAC 15.185 or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. An informal review request must be delivered to the Director, Division of Water, 555 Cordova Street, Anchorage, AK 99501, within 20 days of the permit decision. Visit <http://dec.alaska.gov/commish/ReviewGuidance.htm> for information on Administrative Appeals of Department decisions.

An adjudicatory hearing request must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, AK 99811-1800, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

By copy of this letter we are advising the U.S. Army Corps of Engineers of our actions and enclosing a copy of the certification for their use.

Sincerely,

A handwritten signature in cursive script that reads "James Rypkema".

James Rypkema
Program Manager, Storm Water and Wetlands

Enclosure: 401 Certificate of Reasonable Assurance

cc: (with encl.)
Matthew Brody, USACE, Anchorage

Kate Kanouse, ADF&G/Habitat
Anchorage USFWS Field Office
Matt LaCroix, EPA, AK Operations

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OF REASONABLE ASSURANCE

In accordance with Section 401 of the Federal Clean Water Act (CWA) and the Alaska Water Quality Standards (18 AAC 70), a Certificate of Reasonable Assurance, is issued to City and Borough of Juneau, Attn: Keri Williamson at 155 South Seward Street, Juneau, Alaska 99801, for placement of dredged and/or fill material in waters of the U.S. including wetlands and streams associated with re-routing and improving a portion of the Kaxdigoowu Heen Die Trail to provide erosion control along the trail.

The purpose of the project is to re-route a portion of the Kaxdigoowu Heen Dei trail away from the Mendenhall River to mitigate past erosion along the trail. The project involves:

- Placement of 950-cubic yards of shot rock and useable excavation, 105-cubic yards of D-1 gravel, and 90-cubic yards of asphalt into 0.78-acres of wetlands along 2,005-linear feet of new trail;
- Installation of a 28-foot long 18-inch diameter corrugated polyethylene pipe culvert;
- Placement of a 38-foot long 24-inch diameter corrugated polyethylene pipe culvert;
- Excavation and removal of approximately 975-cubic yards of existing trail along 1,970-linear feet from 0.36-acres of previously filled wetlands;
- Re-vegetation of 0.36-acres previously filled with native vegetation to allow the area to return to its original conditions; and
- Temporary placement of 140-cubic yards of fill material into wetlands on top of geotextile fabric to facilitate the removal of the existing trail and the construction of the new trail.

A state issued water quality certification is required under Section 401 because the proposed activity will be authorized by a U.S. Army Corps of Engineers permit (POA-2018-476) and a discharge of pollutants to waters of the U.S. located in the State of Alaska may result from the proposed activity. Public notice of the application for this certification was given as required by 18 AAC 15.180 in the Corps Public Notice POA-2018-476 posted from April 30 to May 15, 2019.

The proposed activity is located within Section 25, T. 40 S., R. 65 E., Copper River Meridian; Latitude 58.371057°; Longitude -134.602786° in Juneau, Alaska.

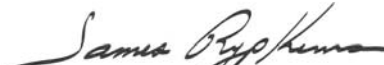
The Department of Environmental Conservation (DEC) reviewed the application and certifies that there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the CWA and the Alaska Water Quality Standards, 18 AAC 70, provided that the following additional measures are adhered to.

1. Reasonable precautions and controls must be used to prevent incidental and accidental discharge of petroleum products or other hazardous substances. Fuel storage and handling activities for equipment must be sited and conducted so there is no petroleum contamination of the ground, subsurface, or surface waterbodies.
2. During construction, spill response equipment and supplies such as sorbent pads shall be available and used immediately to contain and cleanup oil, fuel, hydraulic fluid, antifreeze, or other pollutant spills. Any spill amount must be reported in accordance with Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). The applicant must contact by telephone the DEC Area Response Team for Southeast Alaska (907) 465-5340 during work hours or 1-800-478-9300 after hours. Also, the applicant must contact by telephone the National Response Center at 1-800-424-8802.

3. Runoff discharged to surface water (including wetlands) from a construction site disturbing one or more acres must be covered under Alaska's General Permit for Storm Water Discharges from Large and Small Construction Activities in Alaska (AKR100000). This permit requires a Storm Water Pollution Prevention Plan (SWPPP). For projects that disturb more than five acres, this SWPPP must also be submitted to DEC (William Ashton, 907-269-6283) prior to construction.
4. All work areas, material access routes, and surrounding wetlands involved in the construction project shall be clearly delineated and marked in such a way that equipment operators do not operate outside of the marked areas.
5. Natural drainage patterns shall be maintained, to the extent practicable, without introducing ponding or drying.
6. Excavated or fill material, including overburden, shall be placed so that it is stable, meaning after placement the material does not show signs of excessive erosion. Indicators of excess erosion include: gullying, head cutting, caving, block slippage, material sloughing, etc. The material must be contained with siltation best management practices (BMPs) to preclude reentry into any waters of the U.S., which includes wetlands.
7. Include the following BMPs to handle storm water and total storm water volume discharges as they apply to the site:
 - a. Divert storm water from off-site around the site so that it does not flow onto the project site and cause erosion of exposed soils;
 - b. Slow down or contain storm water that may collect and concentrate within a site and cause erosion of exposed soils;
 - c. Place velocity dissipation devices (e.g., check dams, sediment traps, or riprap) along the length of any conveyance channel to provide a non-erosive flow velocity. Also place velocity dissipation devices where discharges from the conveyance channel or structure join a water course to prevent erosion and to protect the channel embankment, outlet, adjacent stream bank slopes, and downstream waters.
8. Fill material (including dredge material) must be clean sand, gravel or rock, free from petroleum products and toxic contaminants in toxic amounts.
9. Any disturbed ground and exposed soil not covered with fill must be stabilized and re-vegetated with endemic species, grasses, or other suitable vegetation in an appropriate manner to minimize erosion and sedimentation, so that a durable vegetative cover is established in a timely manner.

This certification expires five (5) years after the date the certification is signed. If your project is not completed by then and work under U.S. Army Corps of Engineers Permit will continue, you must submit an application for renewal of this certification no later than 30 days before the expiration date (18 AAC 15.100).

Date: May 22, 2019



James Rypken, Program Manager
Storm Water and Wetlands