

Application for Trail Review

Municipality of Anchorage
 Planning Department
 PO Box 196650
 Anchorage, AK 99519-6650



PETITIONER (Project Manager)		PETITIONER REPRESENTATIVE (IF ANY - Consultant)	
Name (last name first) Keegan, Taylor, MOA Parks & Recreation Department		Name (last name first) Le, Van, AICP, R&M Consultants, Inc.	
Mailing Address P.O. Box 196650, Anchorage, AK 99519		Mailing Address 9101 Vanguard Drive, Anchorage, AK 99507	
Contact Phone: Day: _____ Night: _____		Contact Phone: Day: 907-646-9659 Night: _____	
FAX: _____		FAX: _____	
E-mail: taylor.keegan@anchorageak.gov		E-mail: vle@rmconsult.com	

PROJECT INFORMATION	
Project Name: Chugach Foothills Connector Phase II	MOA Project #: Chugach Foothills Connector
Community Council(s): Scenic Foothills, Basher	
Project description (including location): This project will create a separated, gravel surface, nonmotorized pathway connecting Regal Mountain Drive to the pathway along Campbell Airstrip Road, south of Tudor Road. The pathway includes two spurs, with one connecting to Benny Benson Secondary School, and the other connects to the existing Phase I trail segment. The project scope also includes vegetation clearing and grubbing, two short sections of boardwalk with railings over waterways, drainage improvements, and other amenities. Parcels included are: 00726108000, 00726106000, 00726101000, and 00732101000. Please see the attached narrative for more information.	

I hereby certify that (I am)(I have been authorized to act for) owner of the property described above and that I petition for a site plan review in conformance with Title 21 of the Anchorage Municipal, Code of Ordinances. I understand that payment of the application fee is nonrefundable and is to cover the costs associated with processing this application, and that it does not assure approval of the site plan. I also understand that assigned hearing dates are tentative and may have to be postponed by Planning Department staff, the Planning and Zoning Commission or Urban Design Commission for administrative reasons.

4/14/21	
Date	Signature (Agents must provide written proof of authorization)

Accepted by:	Poster & Affidavit:	Fee	Case Number 2021-0061 UAS: 06/09/2021
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Application for trail review continued

COMPREHENSIVE PLAN INFORMATION

Anchorage 2020 Urban/Rural Services: Urban Rural

Anchorage 2020 Major Elements – site is within or abuts:

- Major employment center
- Redevelopment/mixed use area
- Town center
- Neighborhood commercial center
- Industrial reserve
- Transit - supportive development corridor
- District/area plan area: Community Facility/Institution, Park/Natural Area

Chugiak-Eagle River Land Use Classification:

- Commercial
- Industrial
- Parks/open space
- Public lands/institutions
- Town center
- Transportation/community facility
- Alpine/slope affected
- Special study area
- Development reserve
- Residential at _____ dwelling units per acre
- Environmentally sensitive area

Girdwood- Turnagain Arm Land Use Classification

- Commercial
- Industrial
- Parks/open space
- Public lands/institutions
- Resort
- Transportation/community facility
- Alpine/slope affected
- Special study area
- Reserve
- Residential at _____ dwelling units per acre
- Mixed use
- Rural homestead

ENVIRONMENTAL INFORMATION (All or portion of site affected)

- Wetland Classification: None "C" "B" "A"
- Avalanche Zone: None Blue Zone Red Zone
- Floodplain: None 100 year 500 year
- Seismic Zone (Harding/Lawson): "1" "2" "3" "4" "5"

RECENT REGULATORY INFORMATION (Events that have occurred in last 5 years for all or portion of site)

- Rezoning - Case Number:
- Preliminary Plat Final Plat - Case Number(s):
- Conditional Use - Case Number(s):
- Zoning variance - Case Number(s):
- Land Use Enforcement Action for
- Building or Land Use Permit for
- Wetland permit: Army Corp of Engineers Municipality of Anchorage

APPLICATION REQUIREMENTS (Only one copy of applicable items is required for initial submittal)

- 1 copy required: Signed application (original)
 Watershed sign off form, completed
- 35 copies required: Signed application (copies)
 Project narrative explaining:
 - the project
 - objectives
 - schedule / construction phasing
 - conformance to relevant plans
 - public and agency outreach
- Trail plan and designs with level of detail sufficient for review, including but not limited to:
 - trail alignments
 - parking areas and vehicle circulation (if applicable)
 - lighting
 - distance from applicable stream setbacks
 - signage & wayfinding
 - demonstration of conformance to trail standards specified in Title 21, the *Areawide Trails Plan*, the *Design Criteria Manual*, and the *Municipality of Anchorage Standard Specifications*

(Additional information may be required.)

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

Project Overview

The Municipality of Anchorage (MOA) Parks & Recreation Department (PRD) is developing the Chugach Foothills Connector multi-purpose pathway, near the Tudor-Muldoon Road curve, through a phased approach. Phase I was completed in 2015 using a Challenge Grant, connecting Klutina Drive to Regal Mountain Drive. Phase II, proposed in this application, will connect Phase I to the pathways along Campbell Airstrip Road and Tudor Road and will include two spurs connecting to Benny Benson Secondary School and Regal Mountain Drive. The proposed nonmotorized route runs generally parallel to Tudor Road on the south side, and is located within and adjacent to Far North Bicentennial Park (FNBP).

MOA PRD received Federal Highway Administration (FHWA) funding through Anchorage Metropolitan Area Transportation Solutions (AMATS) for this project. The federal funding requires the project to comply with National Environmental Policy Act (NEPA) standards and to meet Americans with Disabilities Act (ADA) accessibility standards. Numerous alternative alignments and typical sections were evaluated. The preferred alternative proposed balances access, environmental impacts, utility conflicts, and cost.

Project Summary:

- A separated, multi-use pathway intended for pedestrians, bicyclists, skiers, equestrians, and other nonmotorized users
- Funding from FHWA through AMATS
- Project kickoff was February 7, 2019
- Final design Fall 2021
- Project construction in 2022
- Project follows NEPA process
- Work products are being developed to DOT&PF standards
- MOA PRD will maintain upon project completion

Purpose & Need

The purpose of the proposed project is to develop a safe, multi-use pathway connection from the northeast corner of Far North Bicentennial Park to Campbell Airstrip Road. The Chugach Foothills Connector improves residents' ability to travel using non-motorized means by linking to the existing transportation network and by providing a separate, offset pathway on the south side of Tudor Road for pedestrians, cyclists, skiers, and others. The new connection will expand non-motorized access for residents and visitors of the Scenic Foothills community south and east of Tudor and Muldoon without having to cross a major arterial, and with significantly fewer driveway crossings. This plan helps implement goals outlined in the AMATS Anchorage Bicycle Plan by improving connectivity and safety, responding to the alternative transportation needs of residents, and by enhancing the existing trail network.

Location

The project is in or adjacent to the FNBP, south of the Tudor/Muldoon curve, within Section 35 and 36, Township 13 North, Range 03 West, on USGS Quad Map Anchorage A-8, Seward Meridian; Latitude 61.1799°N, Longitude 149.7469°W (Figure 1).

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

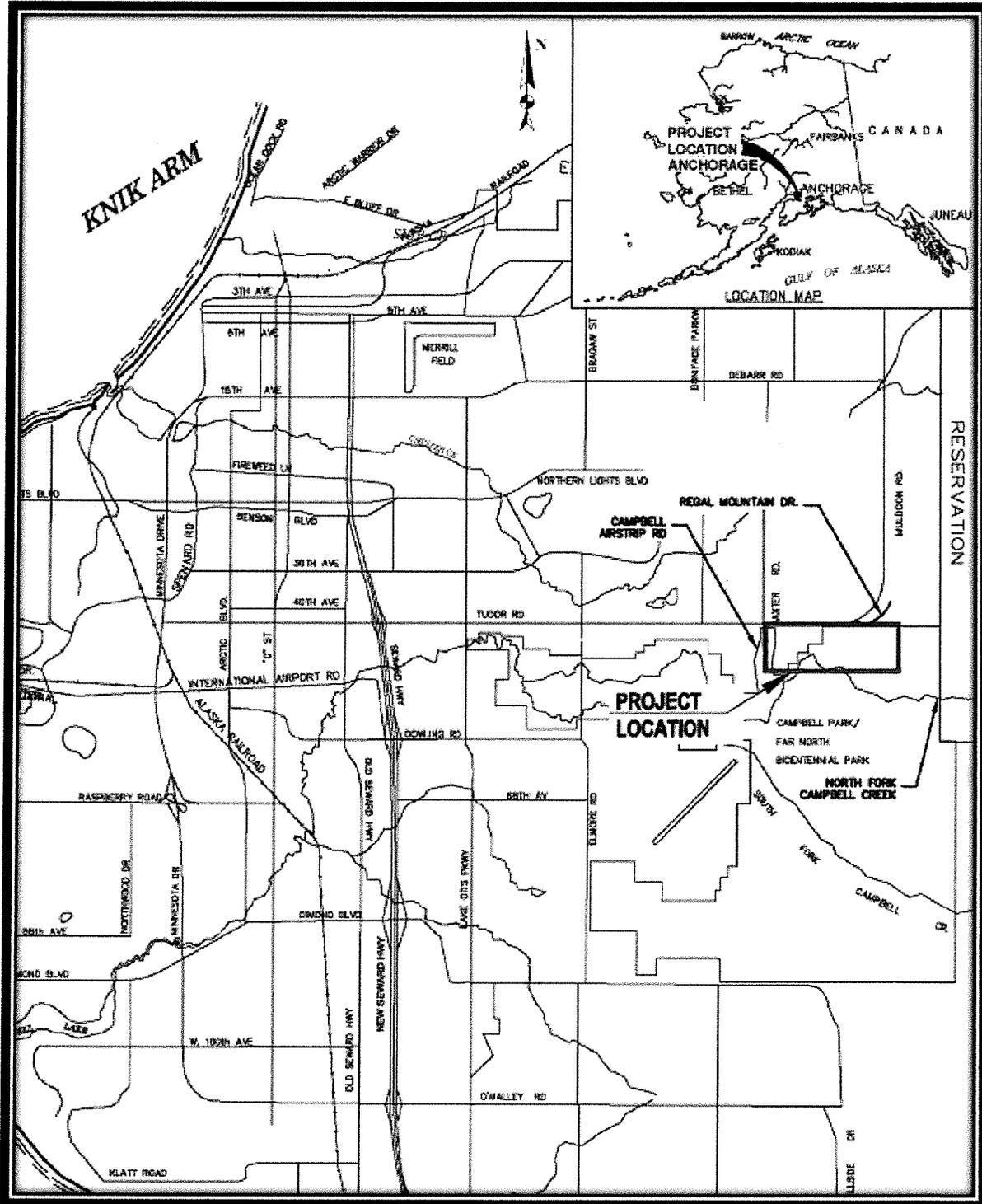


Figure 1: Project Location and Vicinity Map

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

Zoning, Land Use, and Land Ownership

Zoning

The entirety of the Chugach Foothills Connector project area will be constructed on land zoned Public Lands and Institutions (PLI), with no special limitations. The intent of the PLI district is to include major public and quasi-public civic, administrative, and institutional uses and activities. The proposed pathway is a compatible use within the PLI zoning district (see Figure 2).

Plat 90-67, of the Save II Subdivision, shows a 120' "Tudor Road PLI Plan Vegetative Buffer" and 100' Greenbelt Easement. Part of the pathway will be built within the buffer and easement area, which is a compatible use per the easement intents defined in Title 21 and the Tudor Road PLI Plan. The Tudor Road PLI Plan's intent for its trail recommendations was to link much of the area with Class I bike trails that are separated from the main corridor of motorized traffic by at least 12 feet.

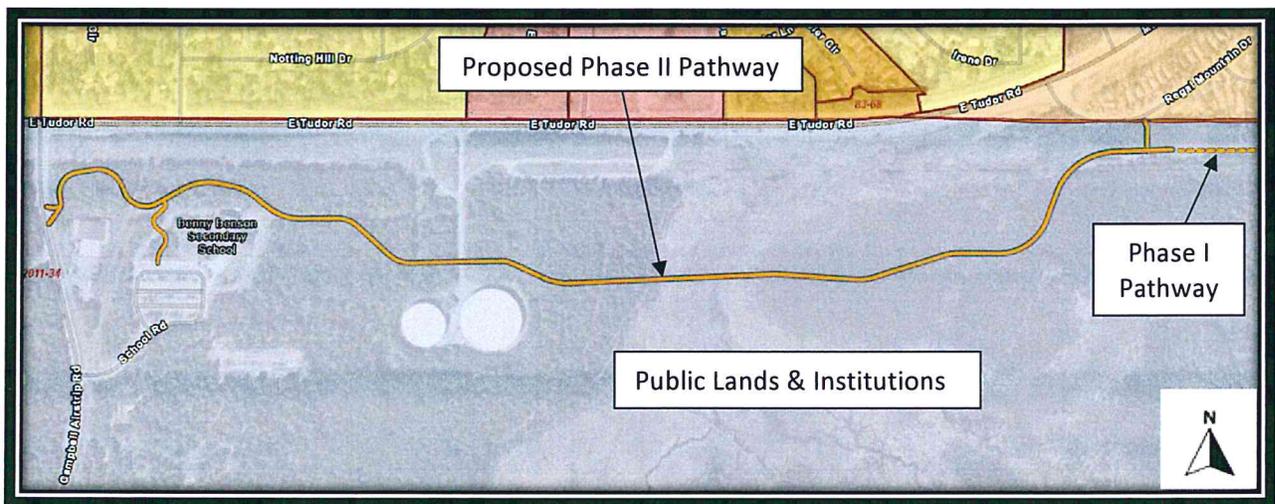


Figure 2: Zoning Map (MOA GIS)

Land Use

Current land uses within the project area are a fire station, school, utility facility, and vacant land (park space). The current land use pattern is anticipated to continue, given the use designations in the Anchorage 2040 Land Use Plan. "Community Facility or Institution" parcels are shown on the western half (blue), with "Park or Natural Area" on the east half (pale green) and a very small portion of the project area designated "Other Open Space" (lime green). See Figure 3.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

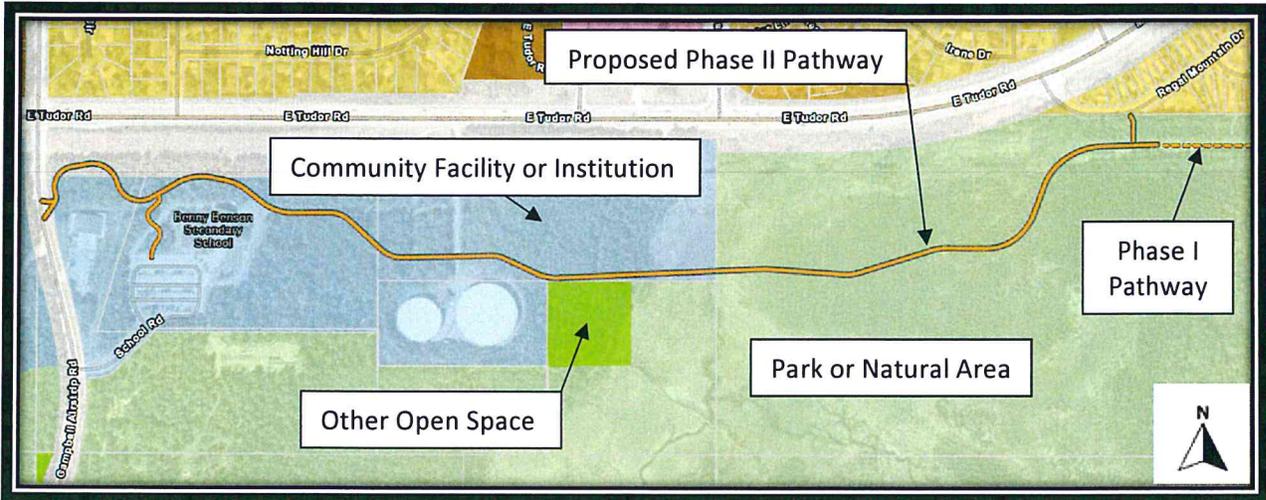


Figure 3: Designated Land Use; Anchorage 2040 Land Use Plan (MOA GIS)

Land Ownership

The proposed pathway will be constructed on land owned by the MOA, including Heritage Land Bank, Anchorage School District (ASD), Real Estate Services, and Anchorage Fire & Rescue. These landowners have been consulted with during this project.

Project Details

The project scope includes:

- Construction of a multi-use pathway with two spurs
- Installation of two short sections of boardwalk with railings
- Vegetation clearing and grubbing
- Drainage improvements
- Signage and wayfinding
- Other amenities, such as trash cans

Pathway Alignment & Materials

The pathway connects the completed Phase I pathway near Regal Mountain Drive at the east to the pathway along Campbell Airstrip Road at the west. The pathway includes two spurs—one connecting to Benny Benson Secondary School and the other connecting to Regal Mountain Drive. The pathway is set back from Tudor Road to mitigate utility impacts and provide for a more enjoyable user experience; pathway users will be more immersed in nature and further away from the sight and noise of vehicle traffic. See [Attachment A: Preferred Pathway Alignment Map](#) for the pathway and boardwalk alignment and typical sections.

Most of the pathway will have an 8.5-foot-wide gravel surface, with 2-foot shoulders on each side. The gravel portions will be at-grade, using permeable fill to allow groundwater movement and surface infiltration.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

There are two 12-foot wide sections of boardwalk with railings where the pathway crosses over the tributary of the North Fork Campbell Creek. The first boardwalk segment is 198 feet long and is built over the north-south running portion of the tributary shortly after entering the wetlands from the west; the second segment is 19 feet long and built over the east-west portion of the tributary, just before the spur connection to Regal Mountain Drive. The width and grade changes allow users with disabilities to safely navigate the pathway. The funding source dictates the design standards to support this as a transportation corridor for simultaneous nonmotorized user group use to expand transportation mode choice.

Access

Public access to the Chugach Foothills Connector Phase II pathway will be from:

- Campbell Airstrip Road
- Benny Benson Secondary School
- Regal Mountain Drive
- Phase I pathway

Parking is not included in this project; however, the western spur will provide access to parking at Benny Benson Secondary School. ASD has been consulted and concurs with the occasional use of its parking lot for pathway users. On-street parking is also available along Regal Mountain Drive.

Lighting

Lighting is not included in this project.

Wetlands

There are high-value wetlands at the eastern half of the project (Attachment A). Complete avoidance was found to be cost prohibitive and not practicable. The project team, including DOT&PF and MOA staff, have been actively coordinating with the US Army Corps of Engineers (USACE) to determine the most feasible mitigation strategy, which could include purchasing credits from a mitigation bank, in-lieu-fee sponsor, or permittee responsible. The project team requires a wetland permit to account for unavoidable impacts. The project team is also coordinating with the MOA watershed hydrologist to ensure pathway alignment is appropriate for drainage, and with the Alaska Department of Fish and Game to address fish passage.

Signage

At roadway intersections, pathway signage will include a stop sign for users and an indicator of bicycle and pedestrian use for motorists. On the pathway, there will be signage to notify pathway users of downward slopes and winding paths. Dogs will be allowed on the pathway, so signage reminding users to clean up dog waste will be added. Wayfinding signage will also be added. Wayfinding signage will also be added in accordance with the details and standards outlined in the 2015 Anchorage Trails Design Intent Drawings. These standards were developed to help individuals with non-motorized recreation and transportation opportunities through a sequence of gateways, kiosks, mile markers, emergency locators,

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

and interpretive signage. This portion of the trail will receive kiosks at relevant nodes along the corridor as well as mile markers and emergency locators.

Stream Setbacks

The eastern portion of the pathway passes through the 300-foot Campbell Creek buffer and passes through the 25-foot Campbell Creek streamside zone setback for the two stream crossings; Title 21 (21.07.020(d)(vi)) allows soft surface trails and elevated walkways within this area, but they should generally be located at least 10 feet from streams, unless a shorter distance can be justified. Title 21 (21.07.020(d)(iii)) states that road and/or trail crossings should be as close to perpendicular as possible. The two boardwalk segments will pass over the North Fork Campbell Creek tributary to maintain flow.

Design Standards and Guidelines

The Chugach Foothills Connector complies with the design standards and guidelines contained in the following publications:

Standards

- Design Criteria Manual (DCM), MOA, PM&E, 2007 with 2018 revision.
- Municipality of Anchorage Standard Specifications (MASS), MOA, PM&E, 2015.
- Alaska Highway Preconstruction Manual (HPCM), DOT&PF, 2020 as amended.
- The Alaska Traffic Manual (ATM), consisting of the Manual on Uniform Traffic Control Devices (MUTCD), 2009 as amended, U.S. DOT, FHWA) and the Alaska Traffic Manual Supplement (ATMS), DOT&PF, 2016.
- ADA Standards for Transportation Facilities, DOT, 2006.
- ADA Standards for Accessible Design (ADAAD), DOJ, 2010.
- Guide for the Development of Bicycle Facilities, 4th Edition, AASHTO, 2012.

Guidelines

- Proposed Accessibility Standards for Pedestrian Facilities in the Public Right-of-Way (PROWAG), U.S. Access Board, 2011.
- Guide for the Planning, Design, and Operation of Pedestrian Facilities, 1st Edition, AASHTO, 2004.
- Advance Notice of Proposed Rulemaking (ANPRM) on Accessibility Guidelines for Shared Use Paths, U.S. Access Board, 2011.
- Boardwalk within MOA – Basis of Design (Draft), R&M Consultants, Inc. 2021.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

Plan Conformance

Anchorage 2020, Anchorage Bowl Comprehensive Plan, 2001

The Anchorage 2020 Comprehensive Plan is a blueprint guides development in the Anchorage Bowl by identifying land use policies and specific strategies to accomplish community goals and objectives. The proposed Chugach Foothills Connector pathway advances the following goals, objectives, and policies of the Anchorage 2020 Plan:

- Land Use Goal –
 - Transportation Choices: an efficient transportation system that offers affordable, viable choices among various modes of travel that serve all parts of the community.
- Design and Environment Goal –
 - Transportation Design and Maintenance: a safe, energy-efficient transportation system that is designed and maintained for year-round use and that respects the integrity of Anchorage’s natural and built northern environment
 - Harmony with Nature: an urban place that develops in harmony with its natural setting and is mindful of its natural hazards.
- Public Improvements & Services –
 - Parks, Trails and Recreation: a sustainable and accessible system of recreational facilities, parks, trails, and open space that meets year-round neighborhood and community-wide needs.
- Policy #38: Design, construct, and maintain roadways or rights-of-way to promote and enhance physical connectivity within and between neighborhoods.
- Policy #45: Connect local activity centers, such as neighborhood schools and community centers with parks, sports fields, greenbelts, and trails where feasible.

Anchorage 2040 Land Use Plan

Applicable policies in the Anchorage 2040 Land Use Plan include:

- Goal 5 – Infrastructure-Land Use
 - 5.1: Implement recommended land use patterns and growth in context with existing infrastructure capacity and planned improvements, for utilities, streets, trails, public transit, parks, green infrastructure, and schools
- Goal 6 – Accessible Land Use
 - Maximizing all modes of travel including street, sidewalk, transit, and trail connections, is critical to supporting successful growth.
 - Transit and trails are critical to growth, while improving quality of life and mitigating road congestion.
- Goal 8 – Open Space and Greenways
 - Anchorage maintains, improves, and strategically expands parks, greenbelts, riparian corridors, and trail corridors to enhance land values, public access, neighborhoods, and mixed-use centers.
 - Connecting these assets to neighborhoods and employment centers by extending greenbelt trails and other pedestrian connections is also a high community priority.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

- 8.2: Provide new and improved trails, greenbelts, and other pedestrian facilities as alternative travel ways connecting open spaces, neighborhoods, and centers.
- Open Spaces
 - Anchorage’s beauty and livability is due in large part to its parks, trails, and natural open space system.
- Park or Natural Area
 - The Park or Natural Area designation provides for active and passive outdoor recreation needs, conservation of natural areas and greenbelts, and trail connections.
 - PR and PLI zoning districts

Areawide Trails Plan, 1997

The Areawide Trails Plan serves as an implementation tool for trail improvements and is a component of the Anchorage 2020 Comprehensive Plan. The Areawide Trails Plan has two focuses: the development of integrated trails serving multiple recreational users and the creation of a trail system that facilitates non-motorized modes of transportation. The proposed project meets or enhances the following goals and policies of the Areawide Trails Plan:

Goals:

- Serves as a basic component of a comprehensive supplemental transportation system by all citizens
- Strengthens the sense of community and neighborhood by linking neighborhoods and increasing the opportunity for people to interact
- Provides recreation for people of all ages, abilities, and financial status
- Provides new opportunities for outdoor education
- Reduces crime by bringing responsible recreationalists into an area

Policies:

- Trails shall be considered integral to the Municipality of Anchorage transportation network and shall be provided to encourage convenient, healthful means of transportation as an alternative to automobile use
- The MOA shall provide a wide range of trail opportunities to accommodate varying activities, abilities, and users
- The trail system should be geographically distributed to provide safe and convenient access to a maximum number of municipal residents
- The Municipal park and greenbelt system should facilitate development of an integrated trail system where it is appropriate to provide trail linkages between neighborhoods, school, and park sites, and major areas of public activity

Projects

- Anchorage area map shows a proposed multi-use, paved trail parallel to Tudor Road on the south side.

Anchorage Bowl Park, Natural Resource, and Recreation Facility Plan (Park Plan), 2006

The Park Plan provides a systematic approach for planning parks, recreation, and natural use areas and is intended to be used to improve parks and recreation for all citizens. The proposed project is associated with “Trails and Connectors” in the plan.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

“These provide non-motorized links between residential areas, parks and schools. This classification consists of trails, greenbelts, and linear parks and includes a mix of hard and soft-surface trails. Maintenance of these areas is dependent on the type of trail and design standard. Trails and connector administration is implemented primarily through the Anchorage Areawide Trails Plan” (pg. xi).

Goals:

- Provide a variety of safe, pleasant, and distinctive community use parks that are responsive to the diverse needs of its residents, with good access to schools, recreation, natural areas, community facilities and surrounding neighborhoods.
- Acknowledge the economic benefits of parks and recreation to the local economy in attracting new businesses, retaining quality workforce, increasing property values, reducing crime, and improving the health of local residents.
- Establish, develop, manage and maintain a balanced system of parks, greenbelts, and trails for year-round utilization that meets neighborhood and community-wide needs.
- Create a pedestrian-oriented system of parks and natural resource greenways linking open spaces and residential neighborhoods and existing and proposed parklands and school sites.

Draft Non-Motorized Plan

- Demand analysis shows high demand for active transportation facilities along Tudor Road. Tudor Road is also a higher-stress corridor. This project alleviates both issues by establishing an east-west connection parallel to Tudor Road while keeping stress low with a wide separation from motorized users.

Anchorage Bicycle Plan, 2010

- A proposed separated, multi-use pathway along Tudor Road in the vicinity of the Chugach Foothills Connector Phase II Project (Figure 13)
- Recommended separated path along Tudor Road from Campbell Airstrip Road to Pioneer Drive (Table 6)

Far North Bicentennial Park Trail Improvements Plan, 2011

- Proposed “highly developed” class trail south of Tudor Road in the vicinity of the Chugach Foothills Connector Phase II Project (Figure 17 & 18A)
- “NE Park Trail Connector” listed as a proposed new trail (Figure 18)

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

Public & Agency Outreach

Table 1 summarizes previous and anticipated public outreach activities:

Table 1: Public Outreach for Chugach Foothills Connector Phase II Project

Year	Date	Outreach
2019	February 7	Kickoff meeting
	February 12	Coordination Meeting with DOT&PF
	February 27, 2019	Site visit with Scenic Foothills trail users
	April 4, 2019	Presentation at Scenic Hills Community Council Meeting
	September 25, 2019	ASD Meeting
	October 9, 2019	ASD Meeting on Site at Benny Benson School
2020	January 22, 2020	USACE pre-application meeting
	January 23, 2020	Anchorage Transportation Fair
	November 18, 2020	Anchorage Transportation Fair (Virtual)
	December 30, 2020	MOA Trail Review pre-application meeting
2021	January 12, 2021	Project Postcards mailed to surrounding residents
	February 4, 2021	Public Meeting at Scenic Foothills Community Council
	February 11, 2021	Anchorage Parks and Recreation Commission
	March 11, 2021	Basher Community Council Presentation

See [Attachment C: Public Involvement Materials](#) for copies of the open house summary, meeting summaries, meeting materials used, and public notice materials.

Trail Review Application

MOA Parks & Recreation Chugach Foothills Connector, Phase II

Schedule

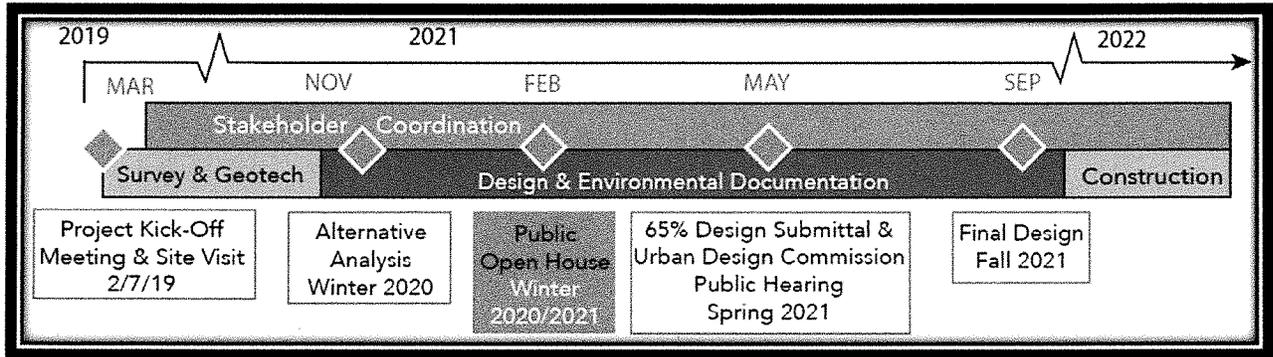


Figure 4: Chugach Foothills Connector Phase II Project Schedule

Attachments

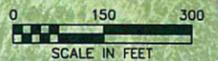
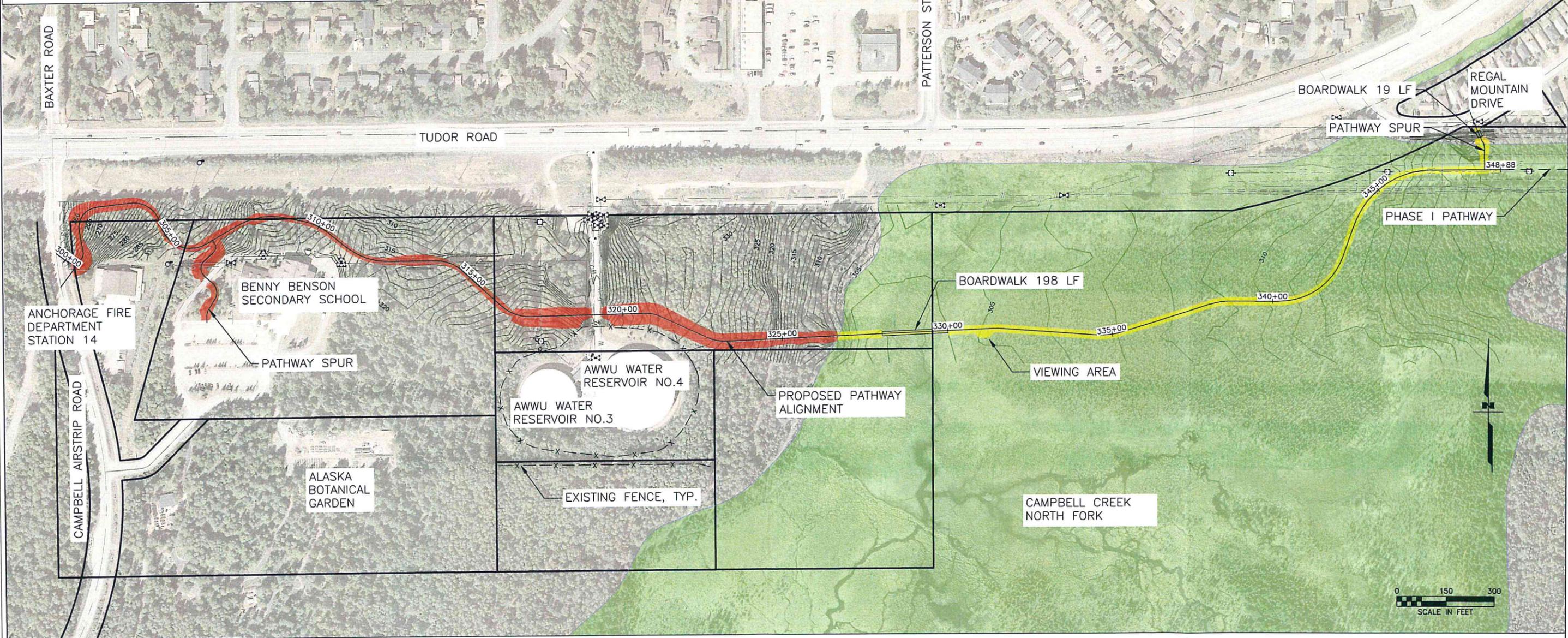
- Attachment A: Preferred Pathway Alignment Map
- Attachment B: 65% Plans in Hand
- Attachment C: Public Involvement Materials
- Attachment D: Watershed Sign Off Form

Attachment A
Preferred Pathway Alignment Map

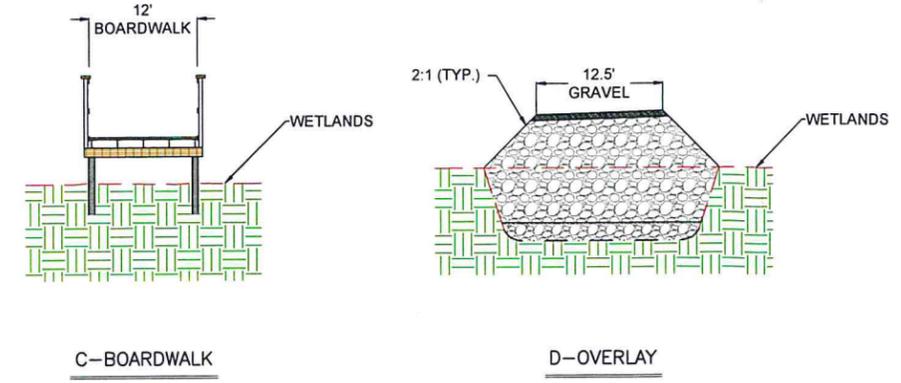
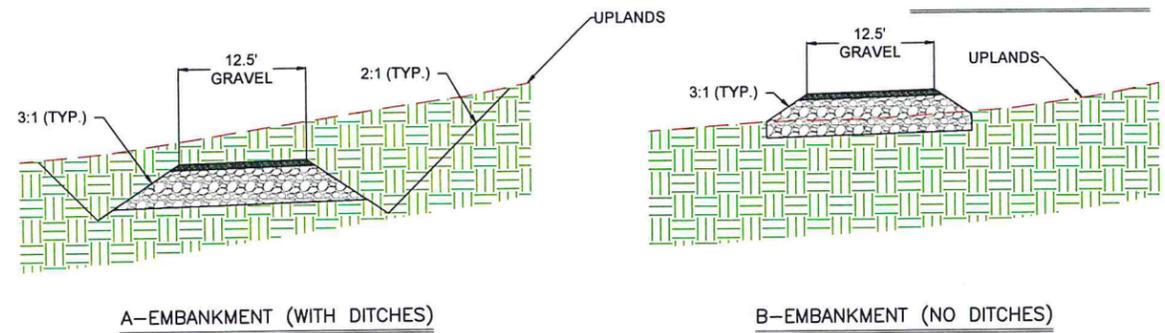
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LEGEND

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TYPICAL SECTION A AND B
- APPROX. PROJECT FOOTPRINT WETLANDS
TYPICAL SECTION C AND D
- PROPERTY BOUNDARIES
- SURFACE CONTOURS



Typical Sections



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AMATS: CHUGACH FOOTHILLS
 CONNECTOR, PHASE II

OVERVIEW
 APRIL 2021

Attachment B
65% Plans in Hand

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

DESIGNED BY
CHECKED BY
DRAFTED BY

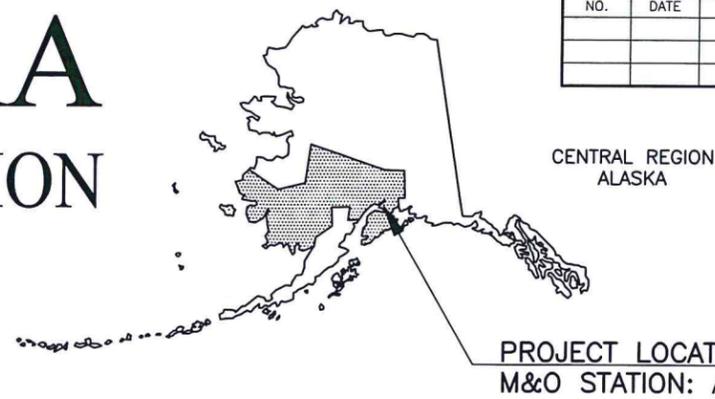
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4/12/2021

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	A1	A4
			ROUTE ID#	N/A	MILEPOINT	N/A	
			LATITUDE	61.179167	LONGITUDE	-149.750000	



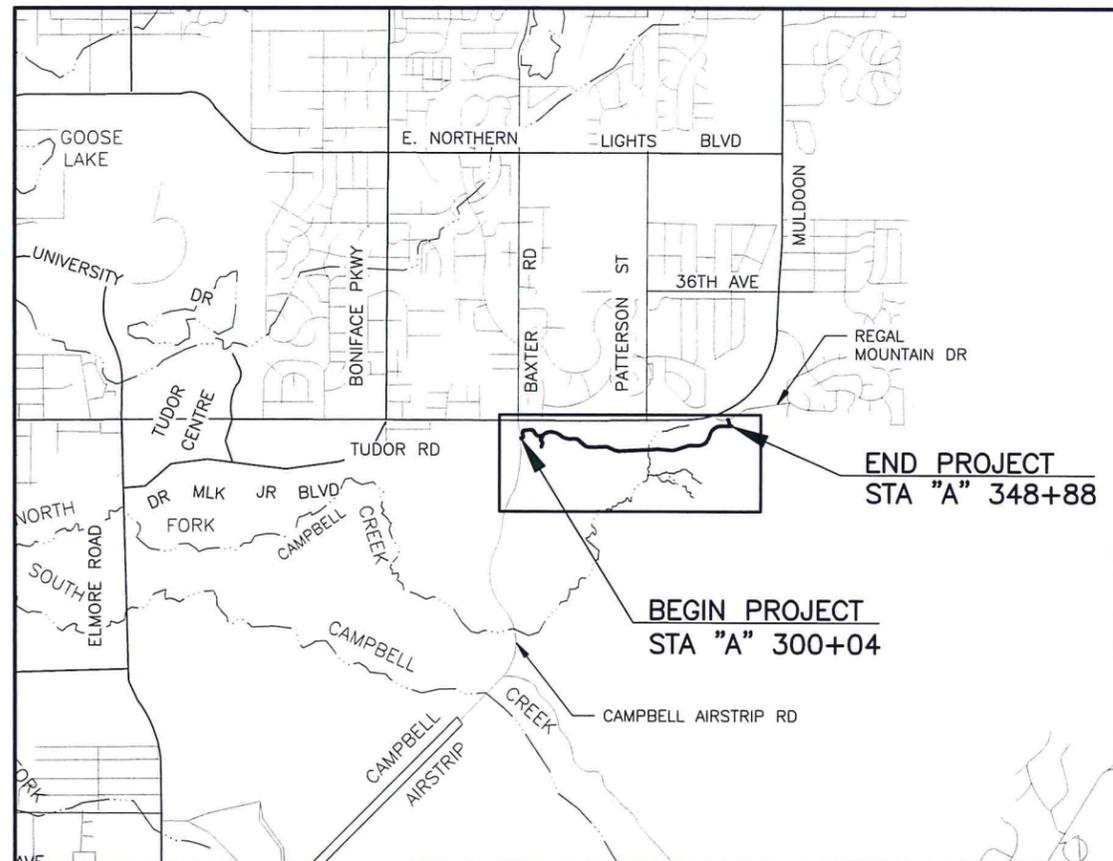
PROPOSED PATHWAY PROJECT

AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II

PROJECT NO. TA18004/CFHWY00387

PATHWAY, BOARDWALK, AND SIGNING

PROJECT SUMMARY		
SEGMENT	WIDTH	LENGTH
GRAVEL PATHWAY	12.5 FT	5,042 FT
BOARDWALK 1	12 FT	199 FT
BOARDWALK 2	12 FT	19 FT



**PLANS-IN-HAND
APRIL 2021**

PLANS DEVELOPED BY: R&M CONSULTANTS, INC.
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269-0590

APPROVED:

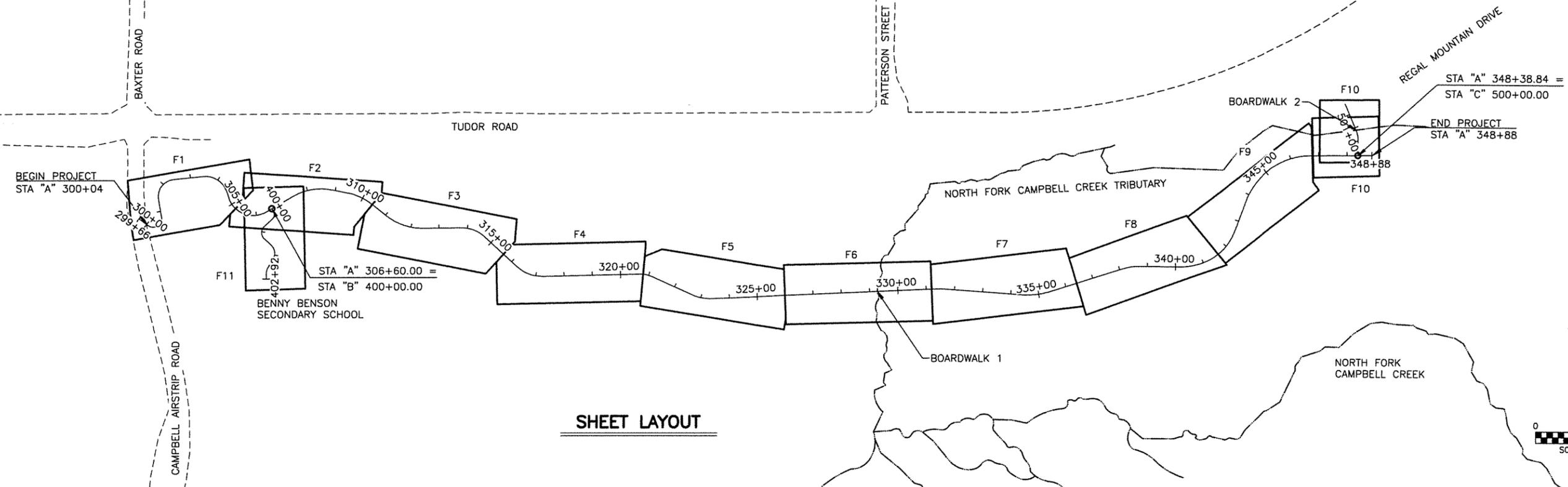
REGIONAL PRECONSTRUCTION ENGINEER _____ DATE _____

CONCUR:

REGIONAL CONSTRUCTION ENGINEER _____ DATE _____

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 DESIGNED
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	A2	A4



SHEET LAYOUT

ABBREVIATIONS:

AMATS	ANCHORAGE METROPOLITAN AREA TRANSPORTATION SOLUTIONS	SS	SANITARY SEWER STREET STATION
AWWU	ANCHORAGE WATER & WASTEWATER UTILITY	ST	STREET
AUTH	AUTHORITY	STA	STATION
ASD	ANCHORAGE SCHOOL	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
DISTRICT		T	TELEPHONE
BB	BENNY BENSON BOULEVARD	TBC	TOP BACK OF CURB TO BE COMPLETED
BOP	BEGINNING OF PROJECT	TOG	TOP OF GRADE
CERT	CERTIFICATION	TYP	TYPICAL
CL	CENTERLINE	UT	UNDERGROUND TELEPHONE
CPM	CRITICAL PATH	UE	UNDERGROUND ELECTRIC
METHOD		V.C.	VERTICAL CURVE
CONC	CONCRETE	V.P.I.	VERTICAL POINT OF INFLECTION
CY	CUBIC YARD		
DR	DRIVE		
E	EAST		
ELEV	ELEVATION		
EOP	END OF PROJECT		
FO	FIBER OPTIC		
FT	FEET		
GLB	GLULAM BEAM		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HORSE POWER		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT		
L	LENGTH		
LF	LINEAR FOOT		
LT	LEFT		
MIN	MINIMUM		
MOA	MUNICIPALITY OF ANCHORAGE		
N	NORTH		
NO	NUMBER		
O.C.	ON CENTER		
OH	OVERHEAD UTILITY		
OE	OVERHEAD ELECTRIC		
PG	PROFILE GRADE		
PI	POINT OF INTERSECTION		
R	RADIUS		
RD	ROAD		
ROW	RIGHT OF WAY		
RT	RIGHT		

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
- PLACE 4" OF TOPSOIL AND SEED ON ANY AREAS WITHIN THE RIGHT-OF-WAY DISTURBED BY CONSTRUCTION, AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-04.12
 D-01.02, D-04.22
 I-20.20
 S-00.12, S-05.02, S-30.05

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2020 EDITION AND THE PROJECT SPECIAL PROVISIONS.

CALL BEFORE YOU DIG!
 CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION
 ALASKA DIGLINE...811
 CALL OR GO TO
WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND SHEET
A4	SURVEY CONTROL (TBC)
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DETAILS
F1-F11	PLAN AND PROFILE
H1-H6	SIGNING
N1-N5	BOARDWALK DETAILS



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
AMATS: CHUGACH Foothills Connector, PHASE II
 SHEET LAYOUT, INDEX, AND GENERAL NOTES

FILE IZ:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-A03.DWG
 DATE/TIME 4/14/2021 11:55 AM
 LAYOUT A3
 DESIGNED
 CHECKED
 DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	A3	A4

ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP		
PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		
BOARDWALK		

UTILITIES

	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER		
ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		

PAVEMENT MARKINGS

	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	
4" WHITE SKIP STRIPE	
10' STRIPES AND 30' SPACES	
8" WHITE LANE GUIDE SKIP	
LANE CONTINUATION OR TURN SKIP	
1" STRIPES AND 3" SPACES	
8" & 4" YELLOW SOLID STRIPE	
4" YELLOW SKIP STRIPE	
10' STRIPES AND 30' SPACES	
STRIPING CHANGE STATION INTERVAL	
2' CROSSWALK OR STOPBAR	
LADDER CROSSWALK LAYOUT	
2' WIDE RUNGS WITH 2" SPACES	
ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	

RIGHT-OF-WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT		
PRIMARY GPS CONTROL POINT		
HORIZONTAL CONTROL POINT		
SECONDARY CONTROL POINT		
VERTICAL BENCHMARK		
TEMPORARY BENCHMARK		
TOWNSHIP AND RANGE LINES		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT-OF-WAY		
RIGHT-OF-WAY OR EASEMENT REQUIRED		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY EASEMENT		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		

TOPOGRAPHY

	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS)		
TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

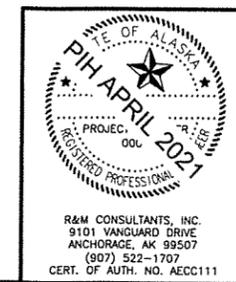
LEGEND SHEET

R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

FILE: Z:\PROJECT\2428.10_MDA_PRD_TERM_CHUGACH_FOOTHILLS_NE_CONNECTOR\CIVIL\ACAD\2428.10-A03.DWG DATE/TIME: 4/14/2021 11:55 AM LAYOUT: A4 DESIGNED: CHECKED: DRAFTED:

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	A4	A4

NOTE TO REVIEWER:
1. SURVEY CONTROL SHEET(S) WILL BE PROVIDED BY DOT&PF

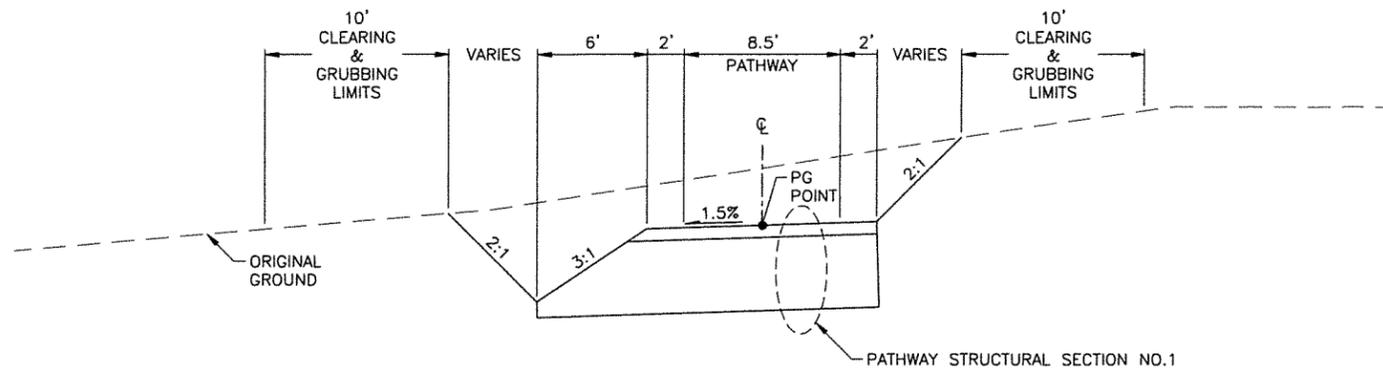


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

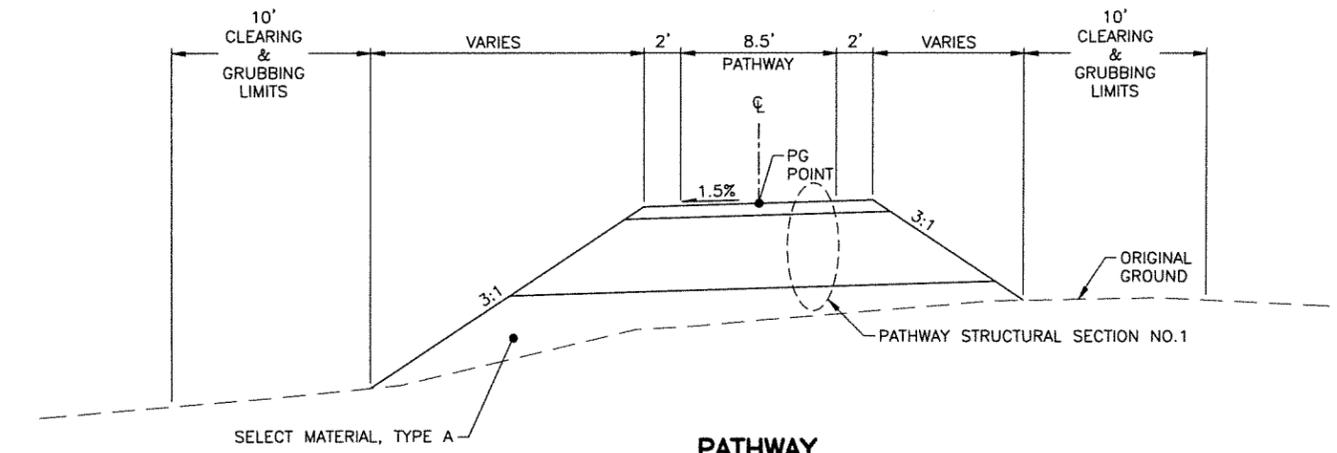
SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	B1	B3

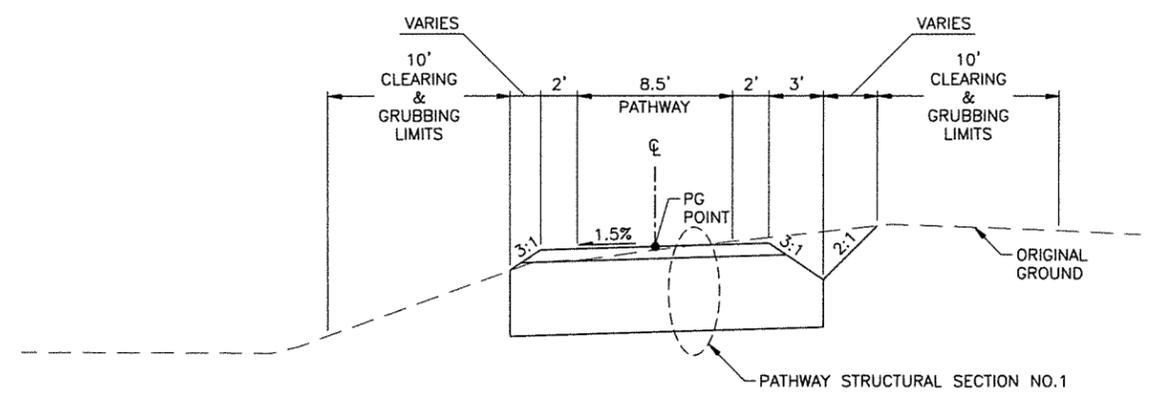
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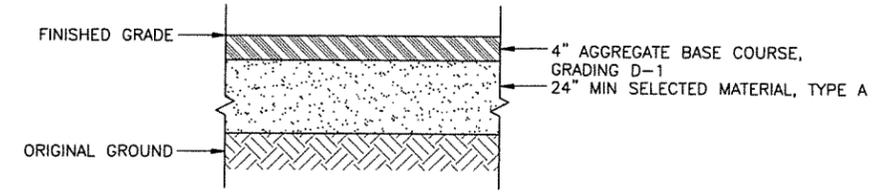
PATHWAY
STA "A" 300+04 TO STA "A" 301+32



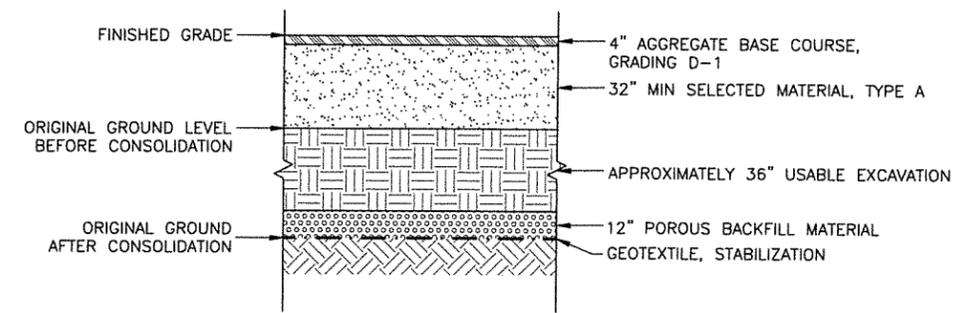
PATHWAY
STA "A" 301+32 TO STA "A" 305+10



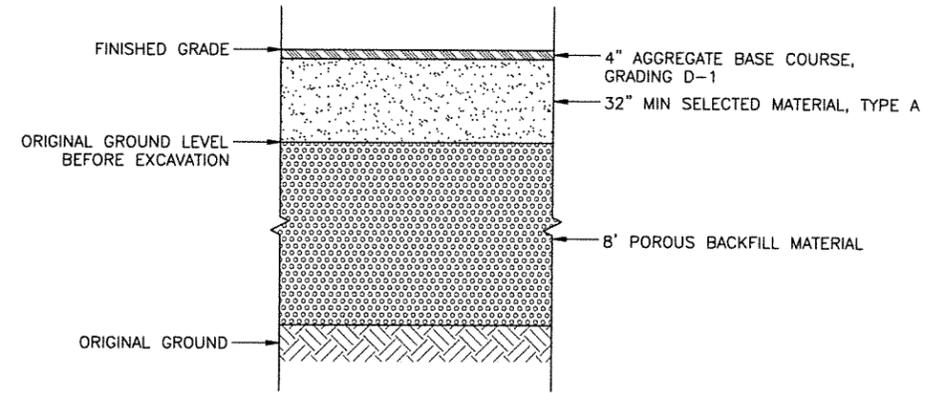
PATHWAY
STA "A" 305+10 TO STA "A" 316+70



PATHWAY STRUCTURAL SECTION NO.1



PATHWAY STRUCTURAL SECTION NO.2



PATHWAY STRUCTURAL SECTION NO.3

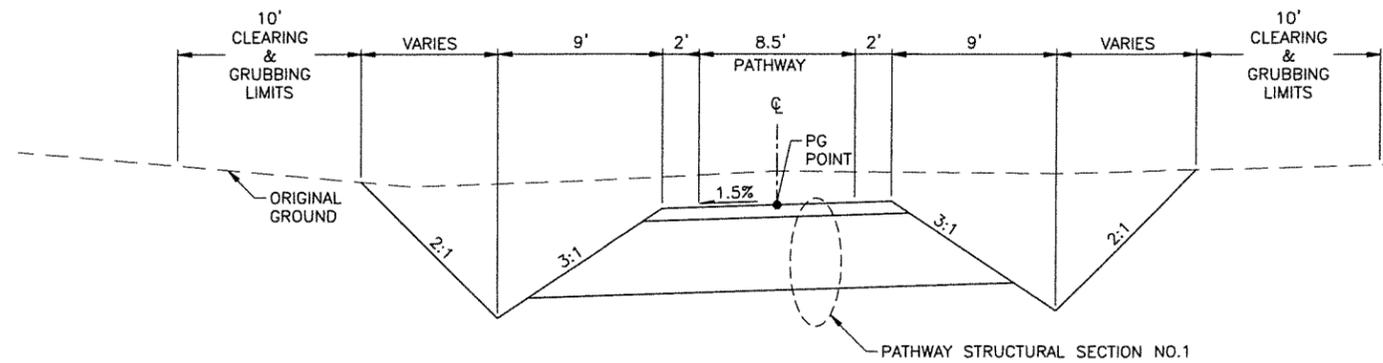
NOTES:
1. CROSS SLOPES UNIFORM AND NOT SHOWN ON RT SIDE FOR CLARITY.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

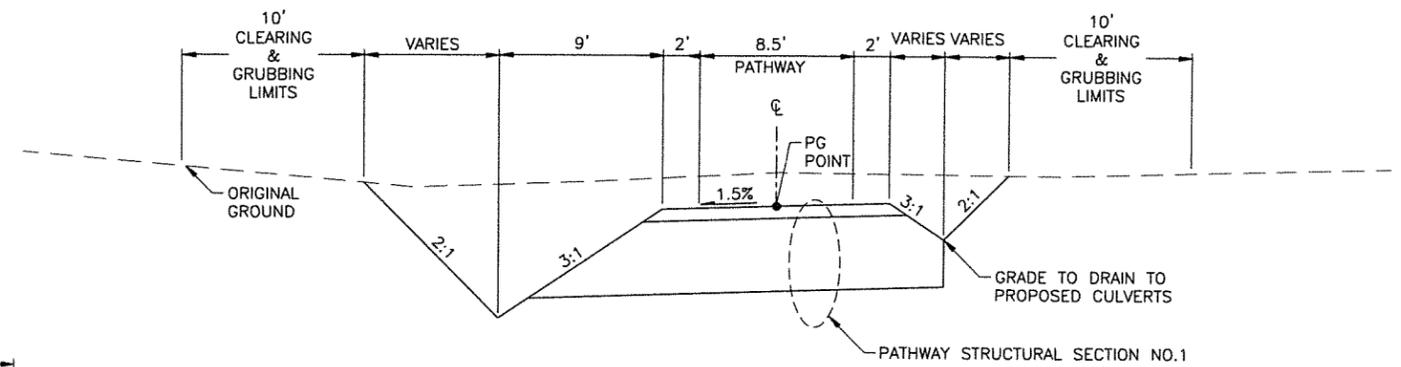
TYPICAL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	B2	B3



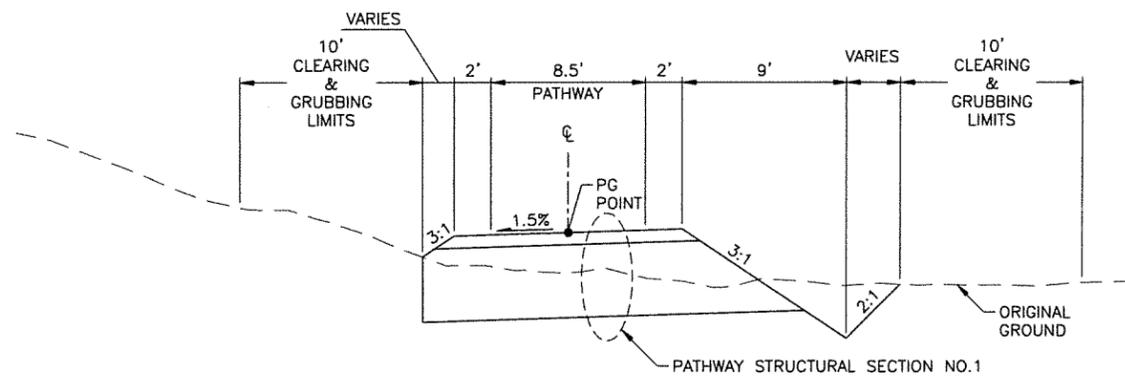
PATHWAY & BENNY BENSON PATHWAY SPUR

STA "A" 316+70 TO STA "A" 318+80
 STA "A" 319+60 TO STA "A" 326+65
 STA "B" 400+06 TO STA "B" 401+32*
 *BENNY BENSON ACCESS ROAD CROSSING



PATHWAY

STA "A" 318+80 TO STA "A" 319+10*
 STA "A" 319+32* TO STA "A" 319+60
 *AWWU RESERVOIR ACCESS ROAD CROSSING



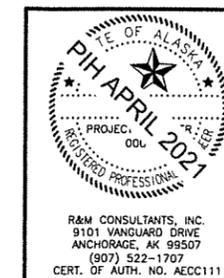
BENNY BENSON PATHWAY SPUR

STA "B" 401+52* TO STA "B" 402+86
 *BENNY BENSON ACCESS ROAD CROSSING

NOTES:

- CROSS SLOPES UNIFORM AND NOT SHOWN ON RT SIDE FOR CLARITY.

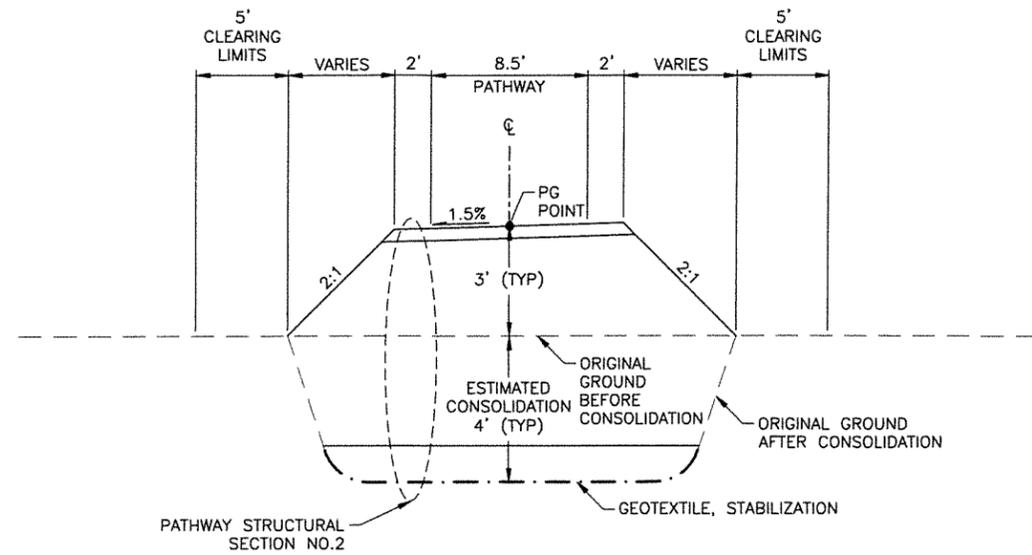
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STATE OF ALASKA
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 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

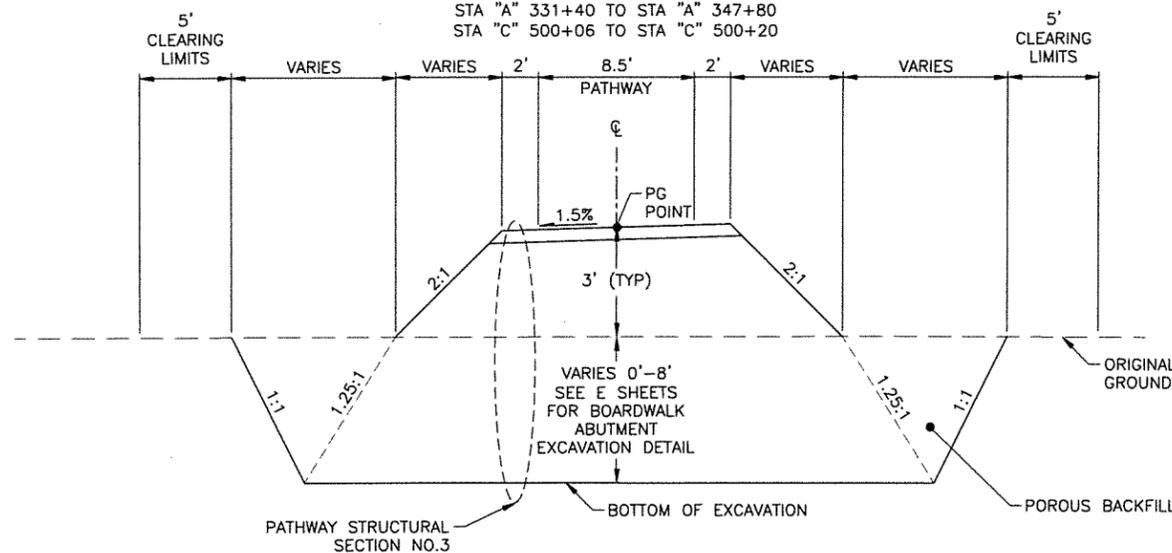
TYPICAL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	B3	B3



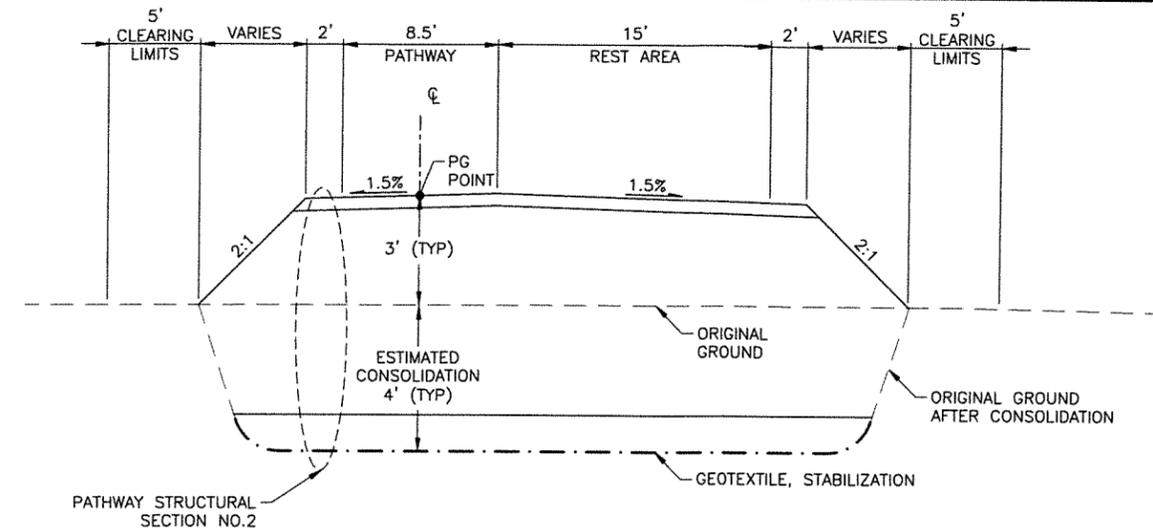
PATHWAY-OVERLAY

STA "A" 326+65 TO STA "A" 327+81
 STA "A" 330+22 TO STA "A" 330+80
 STA "A" 331+40 TO STA "A" 347+80
 STA "C" 500+06 TO STA "C" 500+20



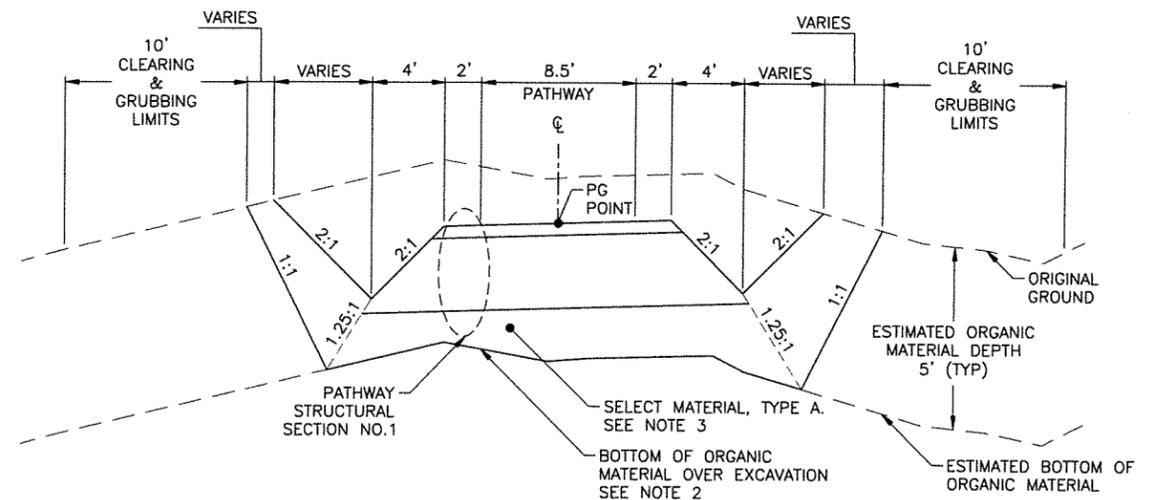
PATHWAY-BOARDWALK ABUTMENT

STA "A" 327+81 TO STA "A" 328+02*
 STA "A" 330+01* TO STA "A" 330+22
 *BOARDWALK (SEE NOTE 1)



PATHWAY-REST AREA

STA "A" 330+80 TO STA "A" 331+40
 *SEE F SHEETS FOR REST AREA LAYOUT



PATHWAY-OVER EXCAVATION & PHASE I PATHWAY SPUR

STA "A" 347+80 TO STA "A" 348+73*
 STA "A" 348+92* TO STA "A" 349+05
 STA "C" 500+20 TO STA "C" 501+00
 *BOARDWALK (SEE NOTE 1)

NOTES:

- SEE N SHEETS FOR BOARDWALK DETAILS STA "A" 328+02 TO STA "A" 330+01 AND STA "A" 348+73 TO STA "A" 348+92
- OVER EXCAVATE TO REMOVE ALL ORGANIC MATERIAL FROM BENEATH PATHWAY. BORE HOLE DATA INDICATES A 5 FOOT DEEP ORGANIC MATERIAL LAYER IN THIS AREA. TRANSITION FROM PATHWAY-OVERLAY SECTION ACCORDING OVER EXCAVATION TRANSITION DETAIL IN E SHEETS.
- FILL WITH POROUS BACKFILL WHEREVER GROUND WATER IS ENCOUNTERED.



R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
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STATE OF ALASKA
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 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

TYPICAL SECTIONS

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-B TYPICALS.DWG
 DATE/TIME 4/14/2021 11:55 AM
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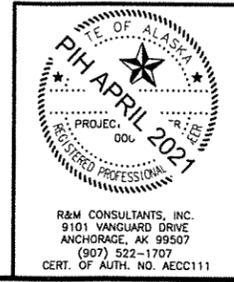
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 DATE/TIME 4/14/2021 11:55 AM LAYOUT C1
 DESIGNED MRW CHECKED JLO DRAFTED DCC

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201.0007.0000	CLEARING	LS	ALL REQ'D
201.0009.0000	CLEARING AND GRUBBING	LS	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	13,000
203.0006.000A	BORROW, TYPE A	TON	22,500
205.0004.0000	POROUS BACKFILL MATERIAL	CY	3,500
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	1,800
505.0005.0604	FURNISH STRUCTURAL STEEL PILES, HELICAL, 6" NPS X 0.432" MIN. WALL	LF	520
505.0006.0604	DRIVE STRUCTURAL STEEL PILES, HELICAL, 6" NPS X 0.432" MIN. WALL	EA	26
506.2001.0000	BOARDWALK	LF	218
603.2032.0018	CORRUGATED HDPE PIPE 18 INCH	LF	148
603.2033.0018	END SECTION FOR CORRUGATED HDPE PIPE 18 INCH	EA	10
608.0006.0000	CURB RAMP	EA	1
611.0002.0001	RIPRAP, CLASS I	TON	130
615.0001.0000	STANDARD SIGN	SF	36
618.0002.0000	SEEDING	LB	300
620.0001.0000	TOPSOIL	SY	22,300
621.2008.0000	LANDSCAPE BOULDER	EACH	10
622.2019.0000	BENCH, METAL	EACH	3
622.2031.0000	TRASH CAN	EACH	3
622.2032.0000	WAYFINDING SIGN	EACH	8
630.0002.0001	GEOTEXTILE, STABILIZATION, CLASS 1	SY	7,500
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0002.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CS	ALL REQ'D
641.0006.0000	WITHHOLDING	CS	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	60
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQ'D
643.0032.0000	FLAGGING	CS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 1 TRAINEES / APPRENTICES	LH	200
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75-HP MINIMUM	CS	ALL REQ'D
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
203.0006.00A	BORROW, TYPE A	144 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
611.0001.0001	RIPRAP, CLASS I	108 LB/CF
	WATER FOR SEEDING	1 GAL/SF



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

ESTIMATE OF QUANTITIES

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-001_SUM.DWG
 DATE/TIME 4/14/2021 11:55 AM
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	DO	D1

EARTHWORK SUMMARY – 203, 205 & 301 ITEMS

SECTION	STATION		EXCAVATION				EMBANKMENT			WASTE (CY)	REMARKS
	FROM	TO	203.0003.0000	USABLE (CY)	UNUSABLE (CY)	USABLE EXCAVATION TO BE PLACED (CY)	203.0006.000A	205.0004.0000	301.0001.00D1		
			UNCLASSIFIED EXCAVATION (CY)				BORROW, TYPE A (TON)	POROUS BACKFILL MATERIAL (CY)	AGGREGATE BASE COURSE, GRADING D-1 (TON)		
UPLANDS	300+34	326+65	8,998	7,198	1,800		10,411	-	841		
WETLANDS	326+65	349+05	1,766	-	1,766	5,910	8,110	2,863	656		
BB SPUR	400+06	402+86	248	198	50		1,126	-	100		
EOP SPUR	500+06	500+87	470	-	470		693	-	26		
		TOTAL :	11,481	7,396	4,085		20,341	2,863	1,623	5,571	
		PAY ITEM QUANTITY:	13,000				22,500	3,500	1,800		

NOTE TO REVIEWER:

- THIS SHEET WILL BE REMOVED PRIOR TO BIDDING

PIH APRIL 2021

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

SUMMARY TABLES

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-D01_SUM.DWG
 DATE/TIME 4/14/2021 11:55 AM LAYOUT D1
 DESIGNED MRW CHECKED JLU DRAFTED DCC

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	D1	D1

REMOVAL OF STRUCTURES AND OBSTRUCTIONS - 201.0001.0000			
SHEET	STATION	OFFSET	REMARKS
F3	311+50	RT	REMOVE EXISTING BOULDERS
F10	348+72	RT	REMOVE EXISTING 4'X15' TIMBER BRIDGE

603.2032.0018, 603.2033.0018												
PIPE SUMMARY (CULVERTS)												
SHEET	PIPE	603.2032.0018		STATION RANGE						SLOPE (%)	603.2033.0018	REMARKS
		PAY LENGTH (LF) HDPE 18 IN		STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		END SECTIONS	
F1	P1-1	38.0		301+50.0	13.3 RT	264.62	301+50	24.5 LT	260.88	9.9	2	
F2	P2-1	26.0		306+75.1	12.1 RT	291.99	306+75	13.9 LT	291.42	2.1	2	
F4	P4-1	26.0		318+72.9	10.9 RT	315.43	318+87	10.9 LT	314.72	2.7	2	
F4	P4-2	26.0		319+67.1	10.9 RT	315.07	319+53	10.9 LT	314.36	2.7	2	
F11	P11-1	32.0		401+60.8	15.6 RT	298.59	401+28.7	15.2 RT	297.24	4.2	2	
TOTAL:		148.0									10	

CURB RAMP - 608.0006.0000				
SHEET	STATION	OFFSET	EA	REMARKS
F10	349+04	CL	1	
PAY ITEM QUANTITY:			1 EA	

RIPRAP, CLASS 1 - 611.0002.0001					
SHEET	STATION		OFFSET	QUANTITY (TON)	REMARKS
	FROM	TO			
F1	300+36	301+12	9' - 14' LT	37.5	RIPRAP DITCH LINING
F1	300+36	301+12	9' - 14' RT	65.2	RIPRAP DITCH LINING
F1		301+50	29' LT	6.3	
F2		306+75	18' LT	6.3	
F11		401+26	15' RT	6.3	
TOTAL:				121.6	
PAY ITEM QUANTITY:				130	

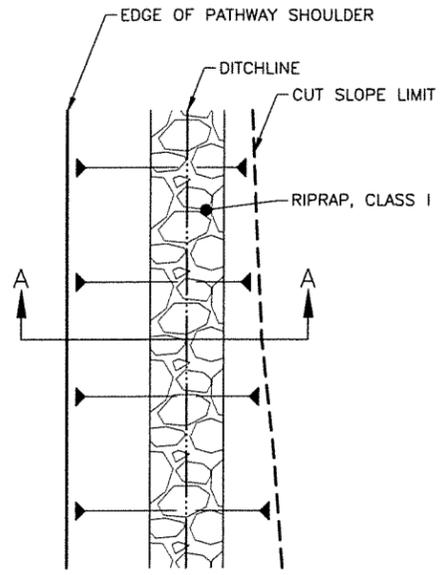
505.0005.0604, 505.0006.0604, 506.2001.0000						
BOARDWALK SUMMARY						
SHEET	STATION		FURNISH STRUCTURAL STEEL PILES, HELICAL, 6" NPS X 0.432" MIN. WALL	DRIVE STRUCTURAL STEEL PILES, HELICAL, 6" NPS X 0.432" MIN. WALL	BOARDWALK	REMARKS
	FROM	TO	505.0005.0604 (LF)	505.0006.0604 (EA)	506.2001.0000 (LF)	
	328+02.0	330+01.0	440.0	22	199.0	
	348+73.0	348+92.0	80.0	4	19.0	
TOTAL:			520.0	26	218.0	
PAY ITEM QUANTITY:			520	26	218	



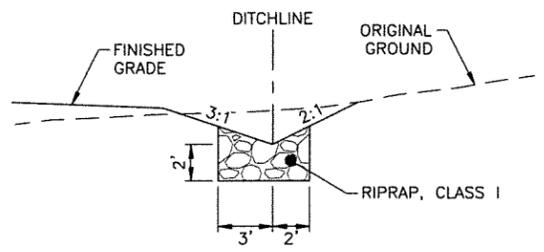
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

SUMMARY TABLES

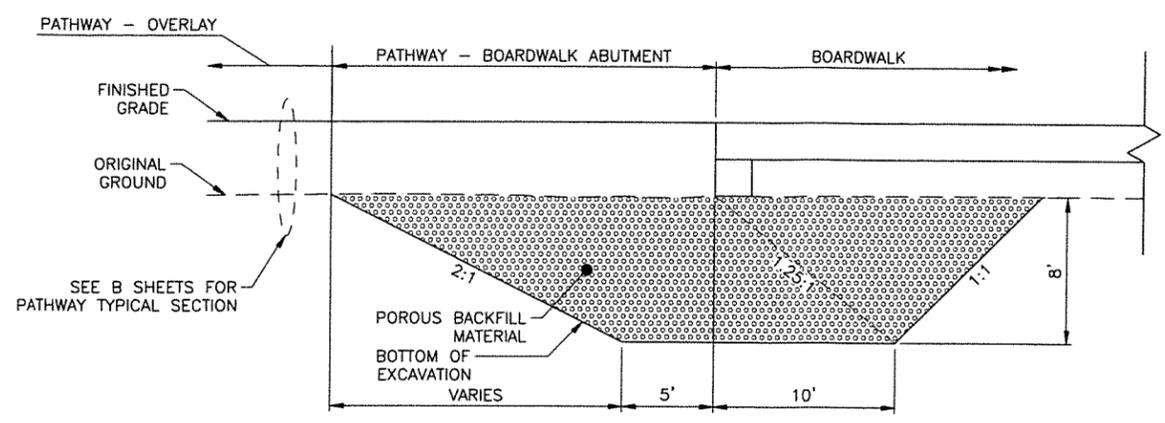
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	E1	E2



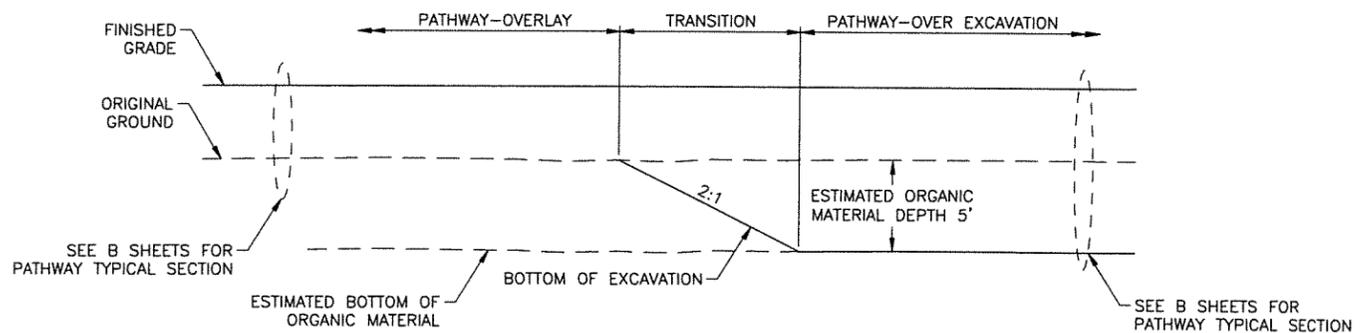
PLAN



SECTION A-A
RIPRAP DITCH LINING



BOARDWALK ABUTMENT EXCAVATION



OVER EXCAVATION TRANSITION

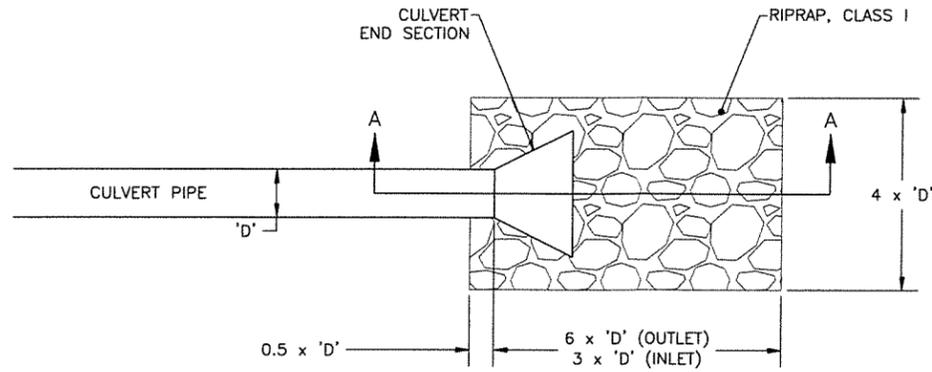
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 LAYOUT E1
 DESIGNED
 CHECKED
 DRAFTED



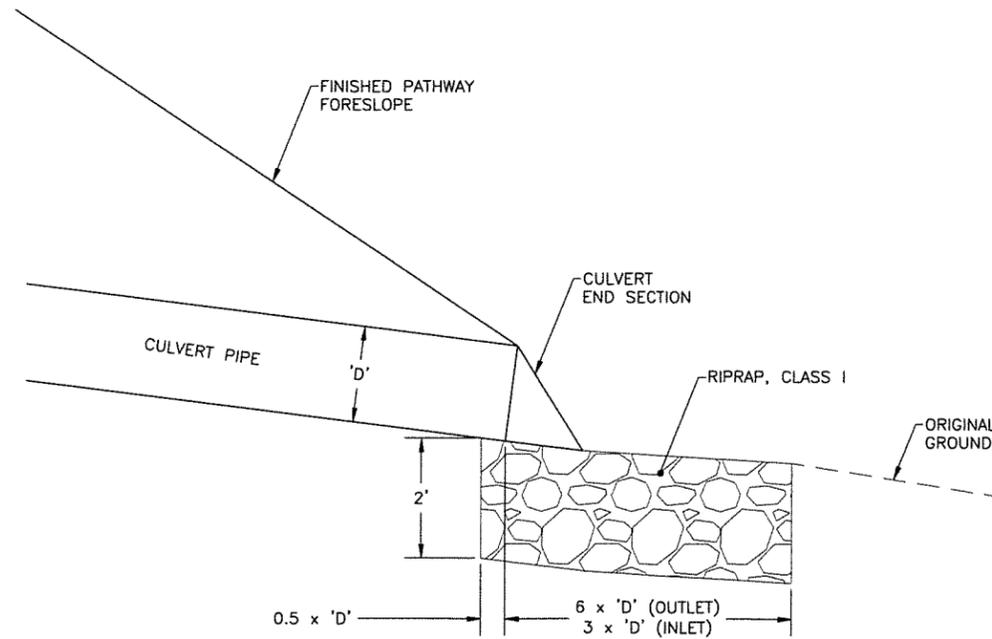
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	E2	E2



PLAN



SECTION A-A

ENERGY DISSIPATER

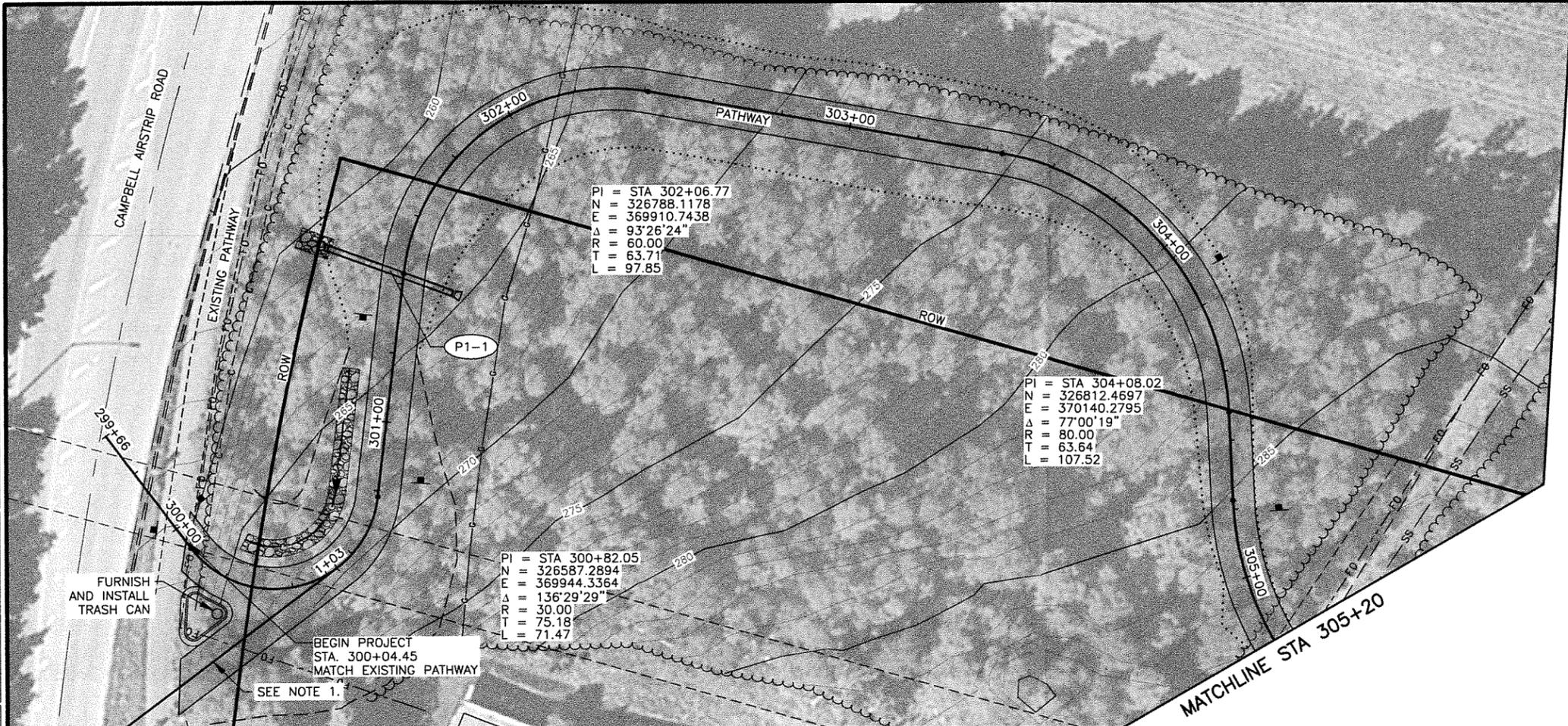


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

DETAILS

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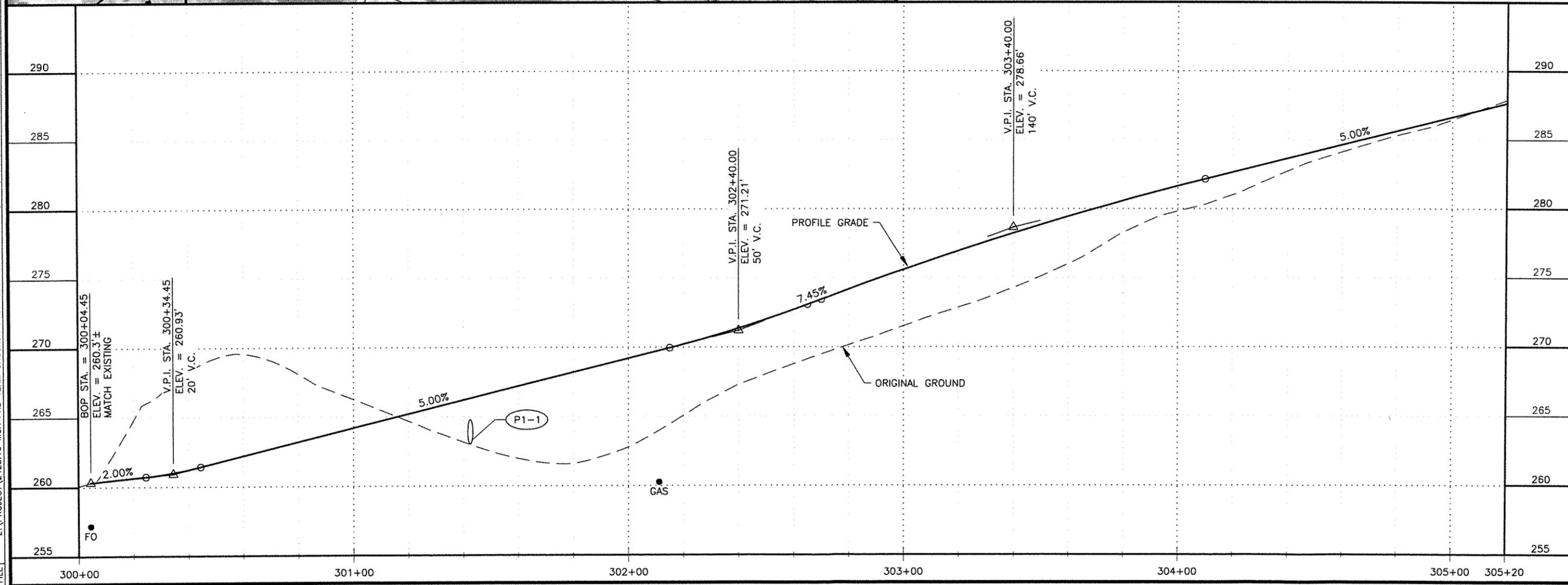
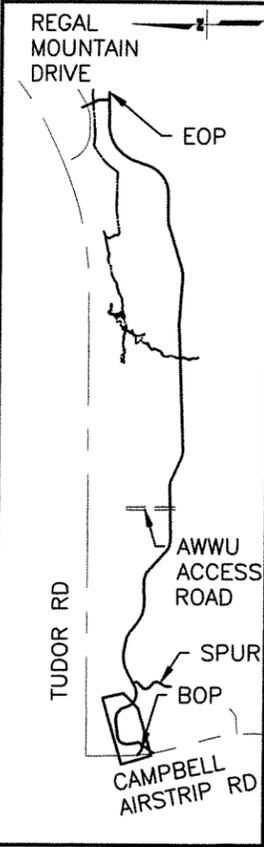
NOTES:

- SEE GRADING SHEET FOR MEDIAN CURB AND SOUTH BOUND SPUR LAYOUT.

SHEET NO.	TOTAL SHEETS
F1	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION

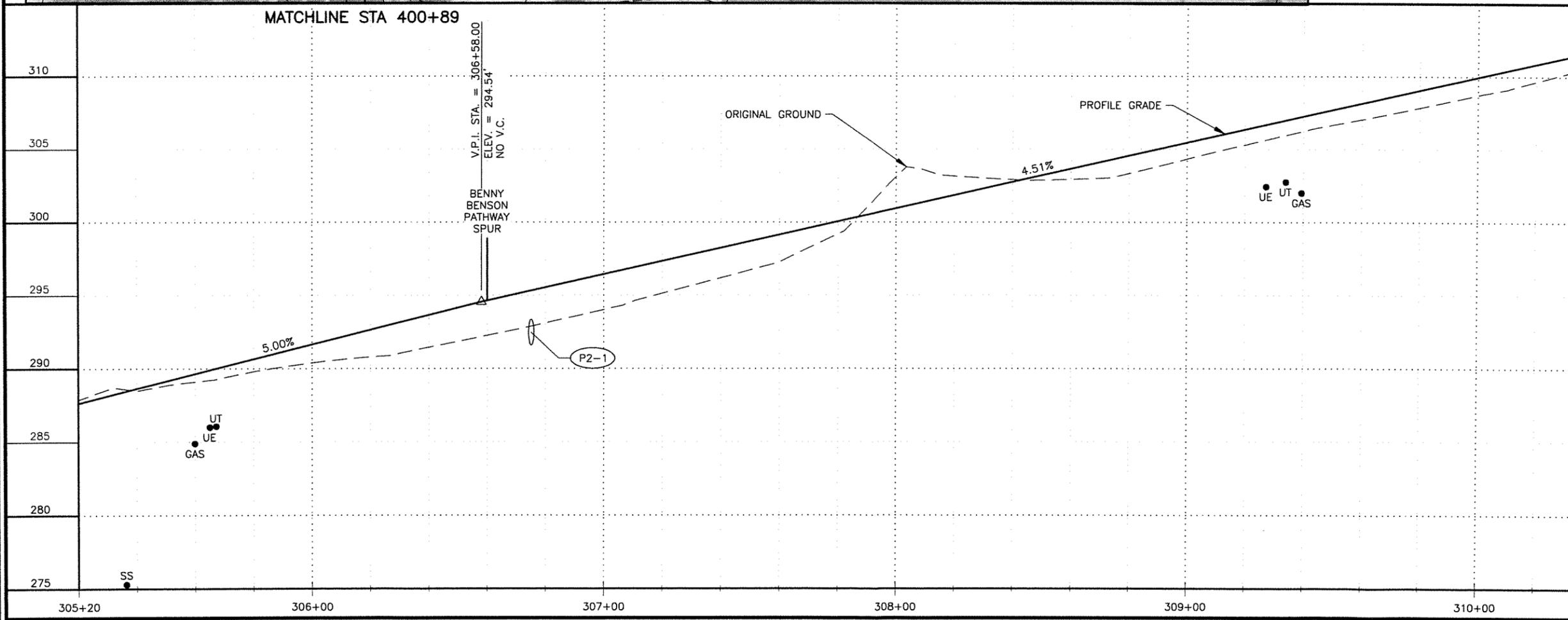
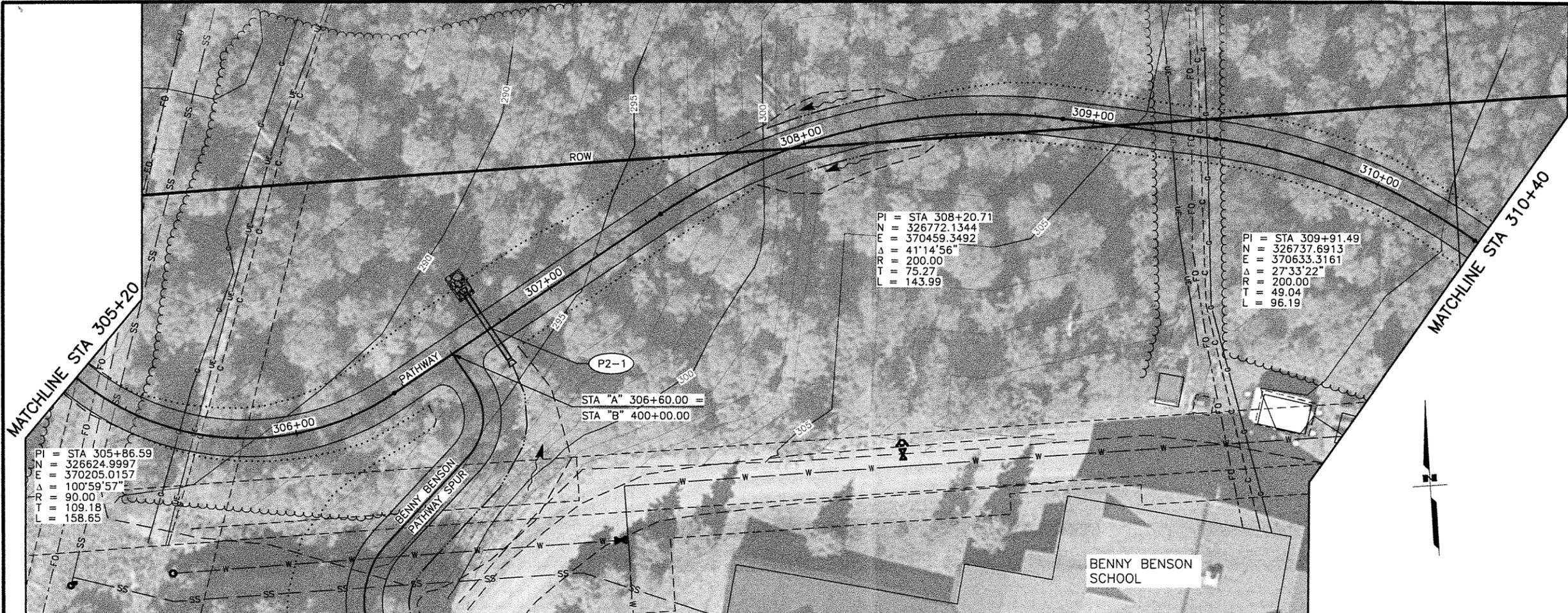


STATE OF ALASKA
 49th
 APRIL 2021
 PIH APRIL 2021
 PROFESSIONAL ENGINEER

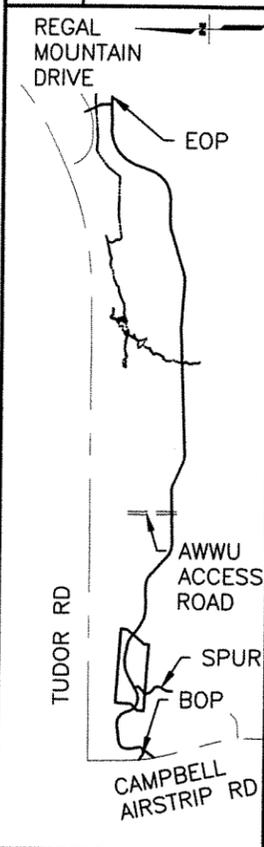
R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**
 PLAN & PROFILE
 BOP TO STA 305+20

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 LAYOUT F2
 DESIGNED
 CHECKED
 DRAFTED



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STATE	YEAR
ALASKA	2021
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TA18004 CFHWY00387	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

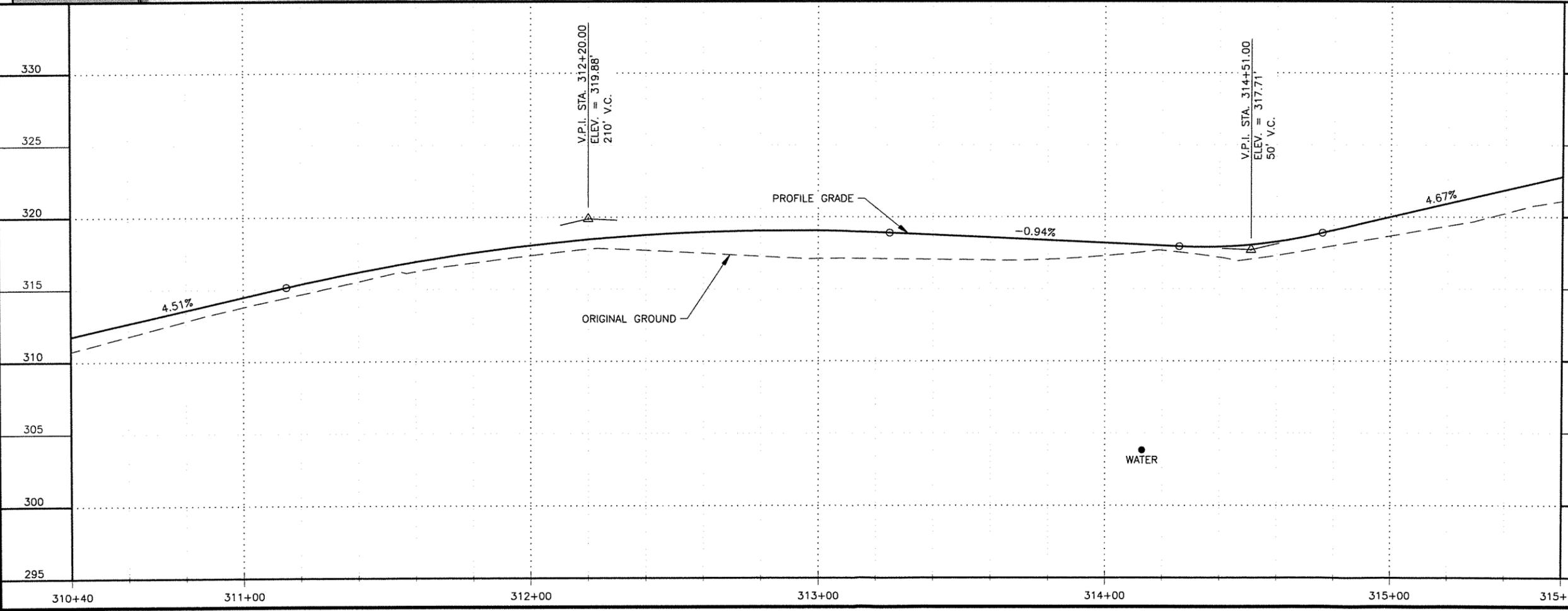
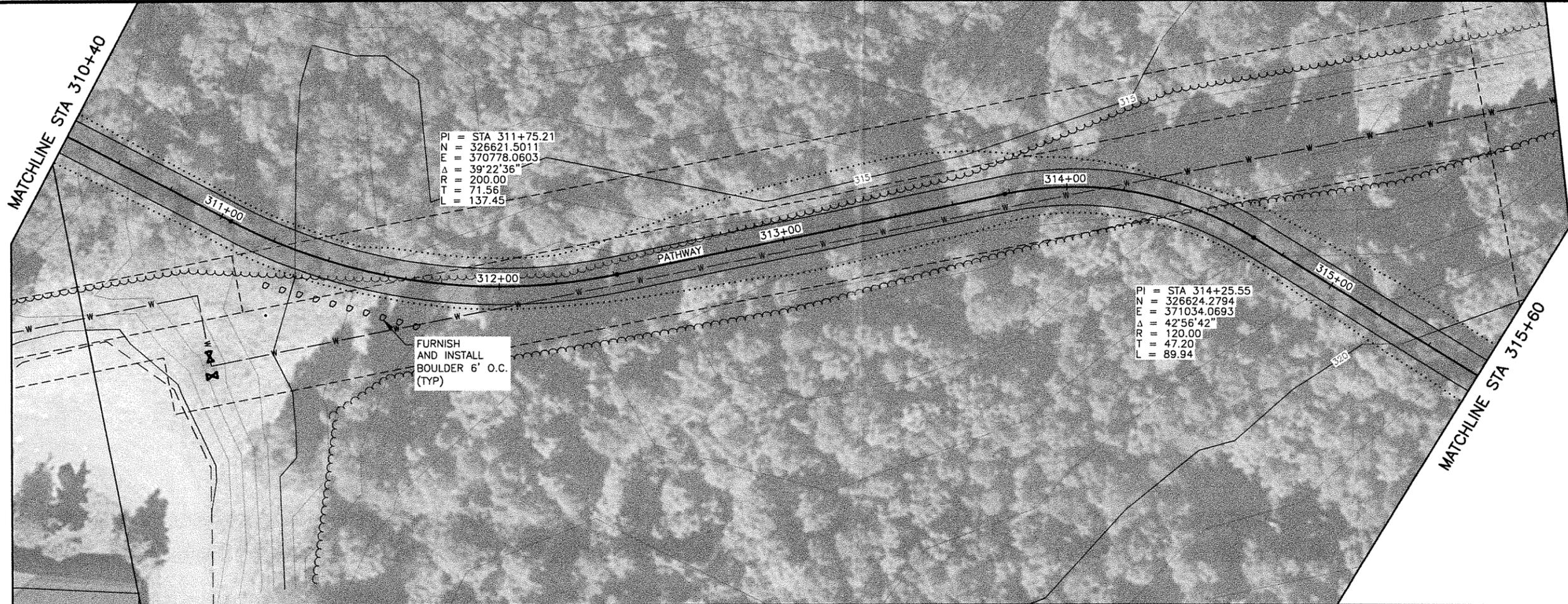


STATE OF ALASKA
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II
 PLAN & PROFILE
 305+20 TO 310+40

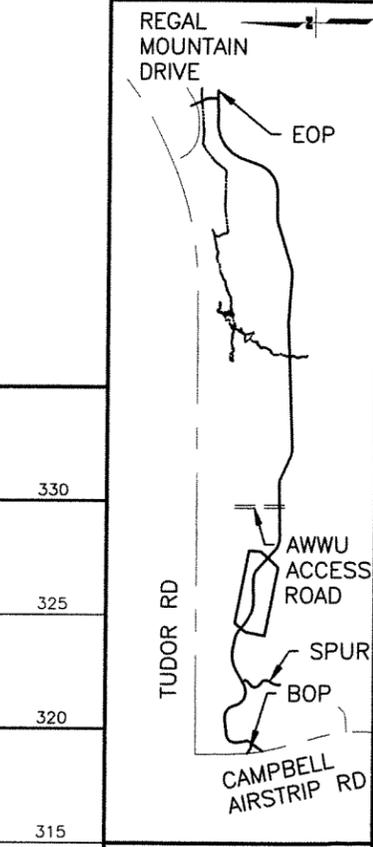
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STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

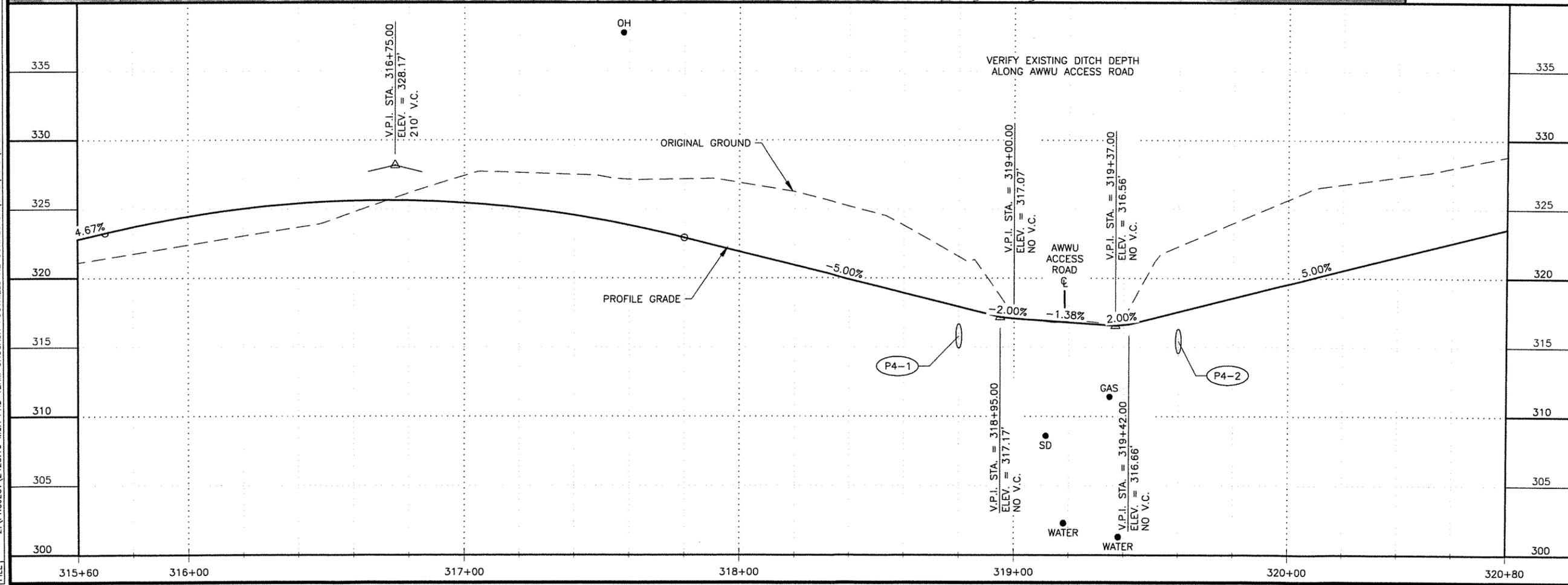
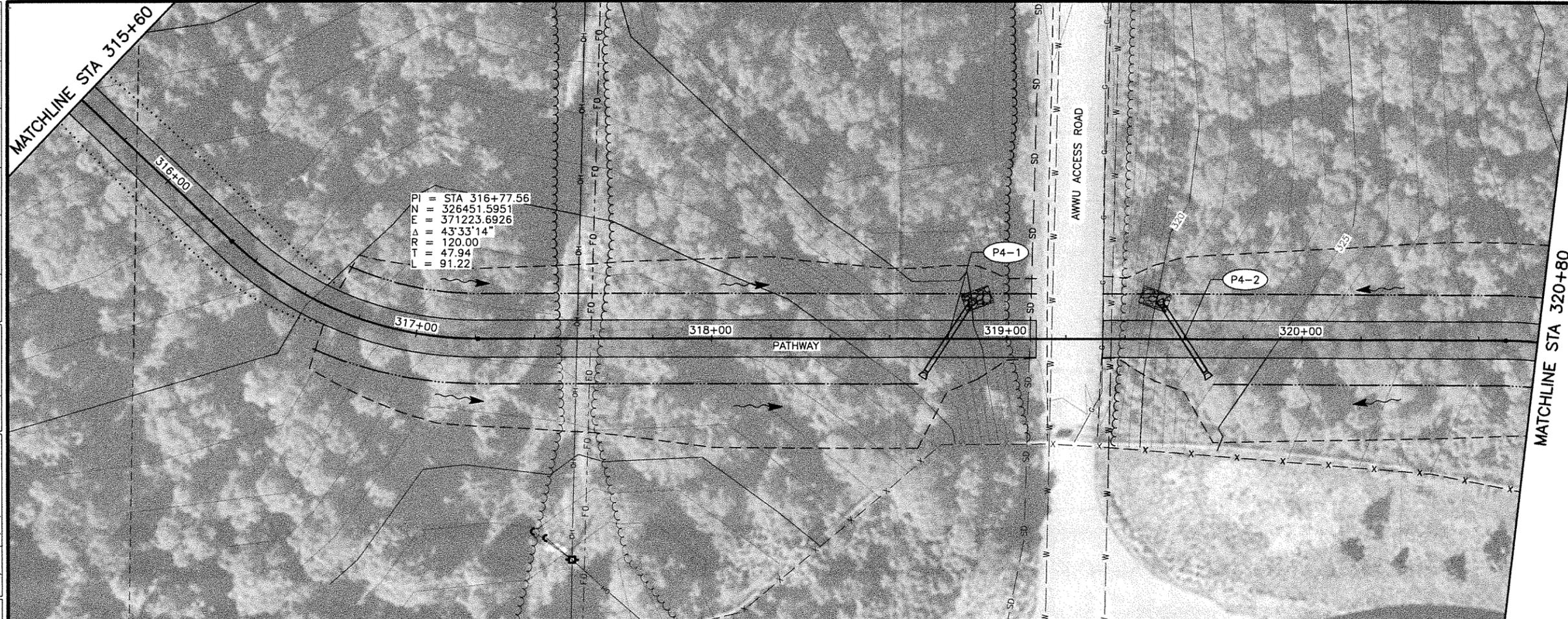
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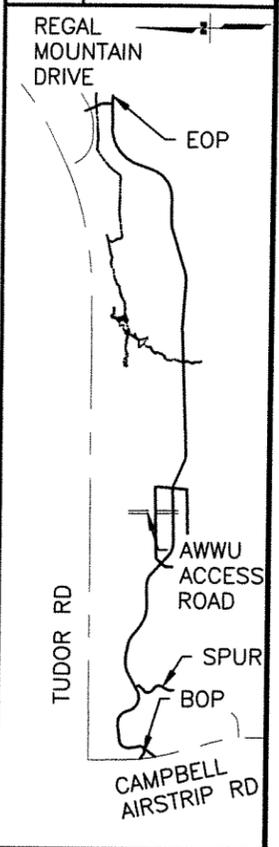
STATE OF ALASKA
 49th
 APRIL 2021
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 R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**
 PLAN & PROFILE
 310+40 TO 315+60

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-F-PLAN & PROFILE.DWG DATE/TIME 4/14/2021 11:55 AM LAYOUT F4 DESIGNED F4 CHECKED DRAFTED



SHEET NO.	TOTAL SHEETS
F4	F11
STATE	YEAR
ALASKA	2021
PROJECT DESIGNATION	
TA18004 CFHWY00387	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4.9 IN.
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PROFESSIONAL ENGINEER

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9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II

PLAN & PROFILE
315+60 TO 320+80

FILE Z:\PROJECT\2428.10 MOA PRO TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\CAD\2428.10-F-PLAN & PROFILE.DWG DATE/TIME 4/14/2021 11:55 AM LAYOUT FS DESIGNED CHECKED DRAFTED

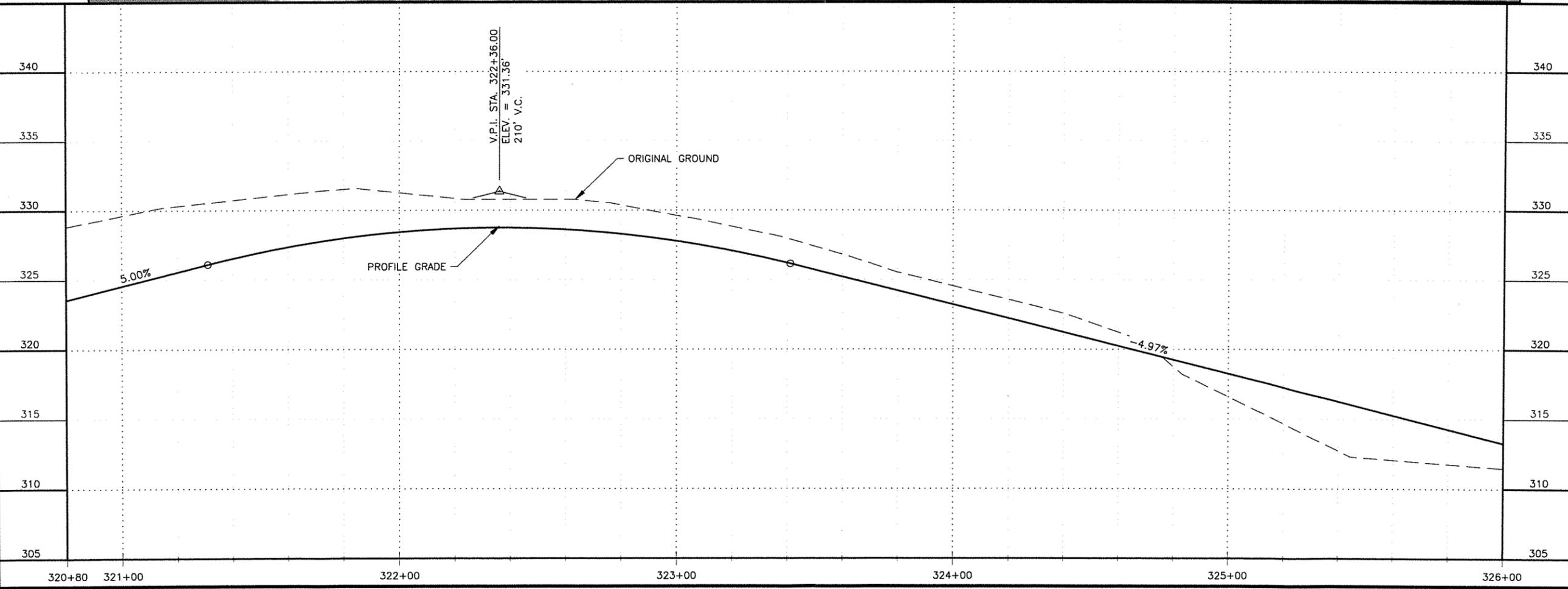
MATCHLINE STA 320+80

MATCHLINE STA 326+00

PI = STA 320+92.04
 N = 326460.5979
 E = 371642.7362
 Δ = 25°47'20"
 R = 100.00
 T = 22.89
 L = 45.01

PI = STA 323+02.68
 N = 326372.7303
 E = 371835.0277
 Δ = 27°03'57"
 R = 120.00
 T = 28.88
 L = 56.69

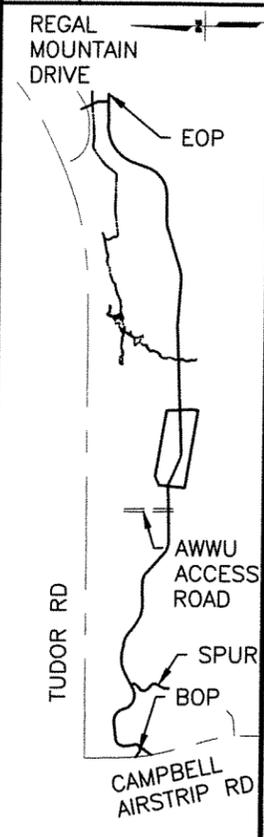
V.P.I. STA. 322+36.00
 ELEV. = 331.36'
 210' V.C.



SHEET NO.	TOTAL SHEETS
F5	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION



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 ANCHORAGE, AK 99507
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

PLAN & PROFILE
 320+80 TO 326+00

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-F-PLAN & PROFILE.DWG DATE/TIME 4/14/2021 11:56 AM LAYOUT F6 DESIGNED CHECKED DRAFTED

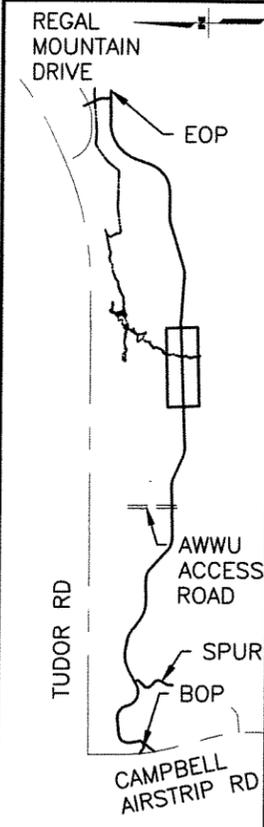
MATCHLINE STA 326+00

MATCHLINE STA 331+20

SHEET NO.	TOTAL SHEETS
F6	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

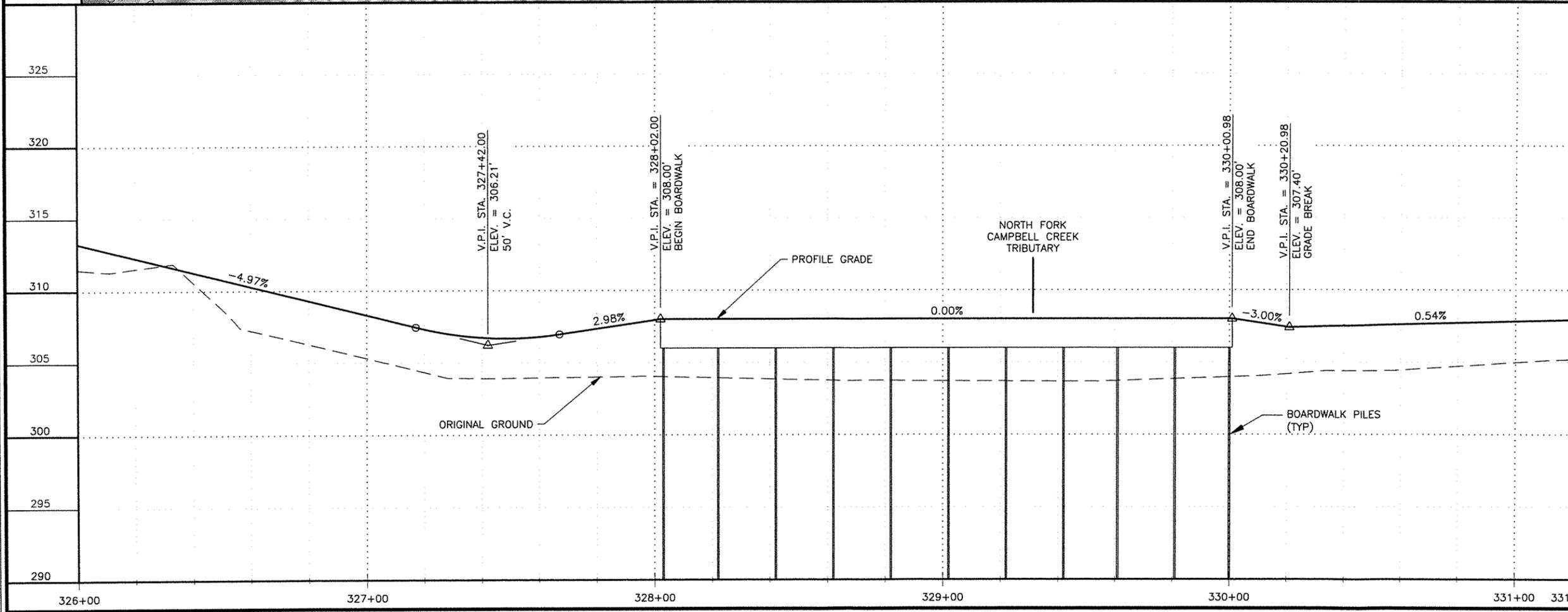
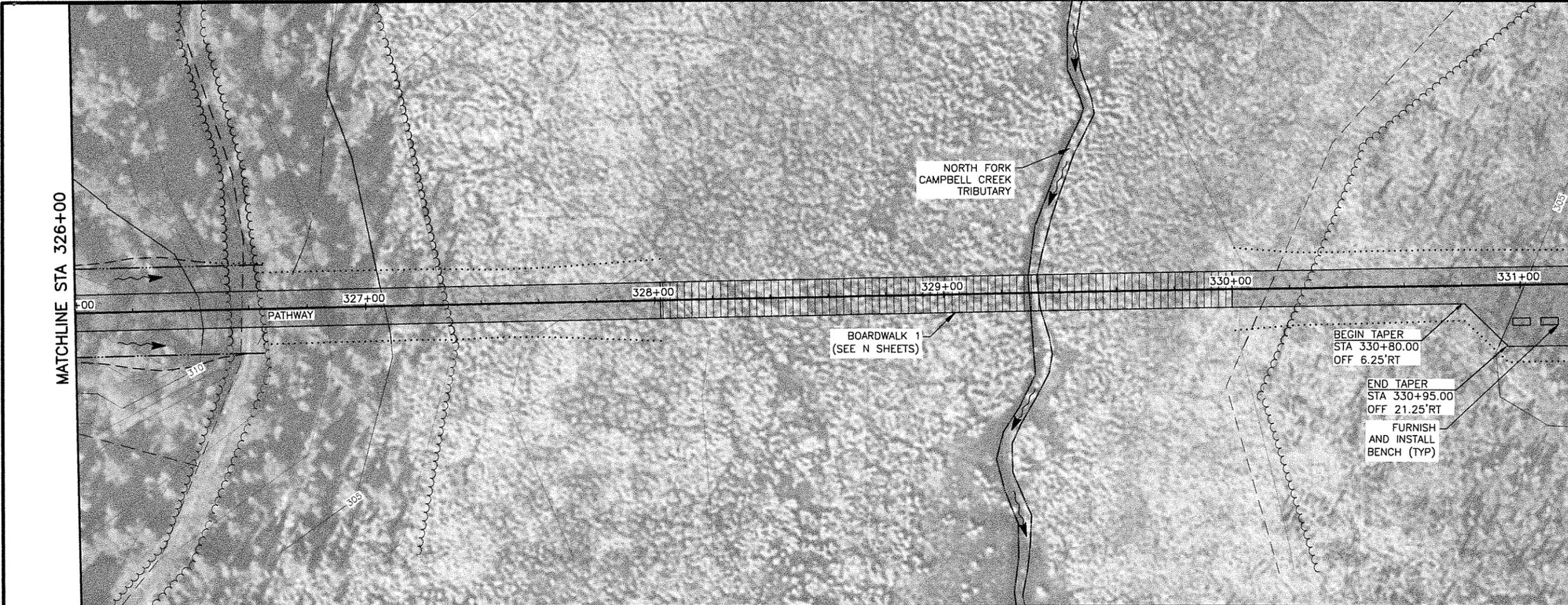
NO.	REVISION



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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

PLAN & PROFILE
 326+00 TO 331+20



FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-F-PLAN & PROFILE.DWG DATE/TIME 4/14/2021 11:56 AM LAYOUT F7 DESIGNED CHECKED DRAFTED

MATCHLINE STA 331+20

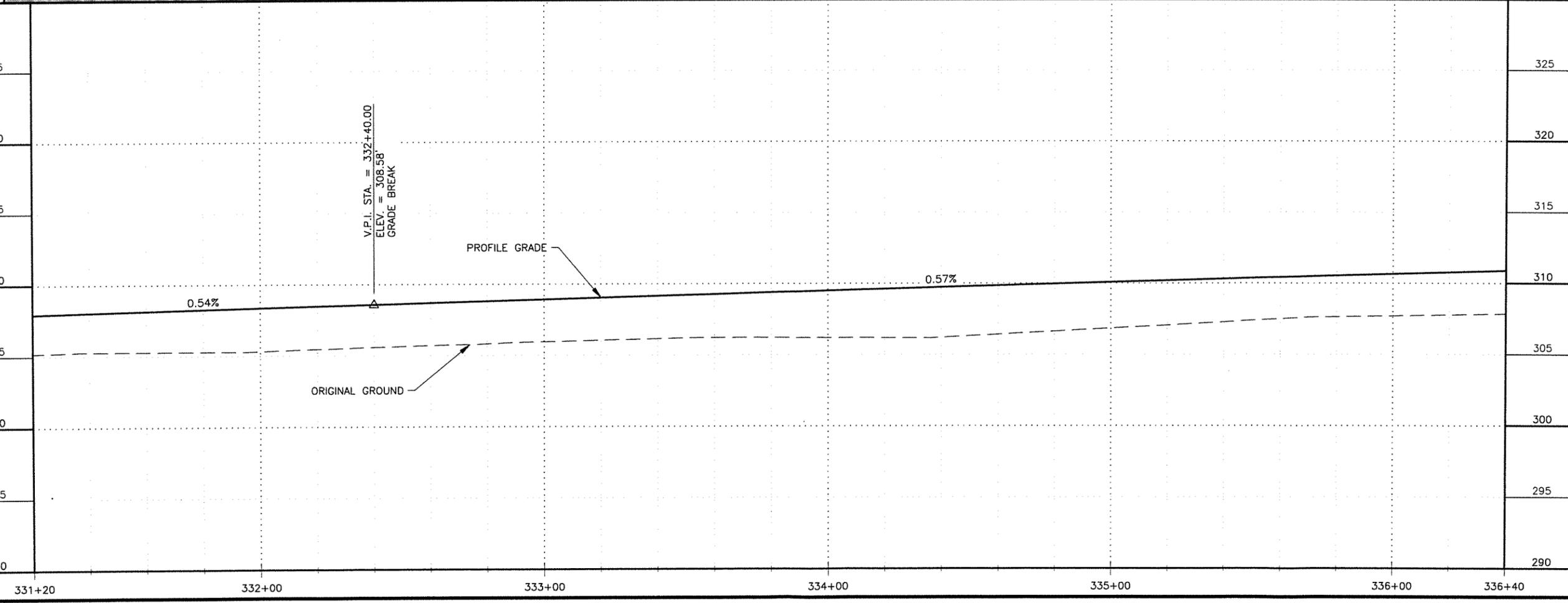
MATCHLINE STA 336+40

PI = STA 331+53.43
 N = 326410.0035
 E = 372686.0412
 $\Delta = 6'34'43''$
 R = 200.00
 T = 11.49
 L = 22.96

END TAPER
 STA 331+40.06
 OFF 6.19'RT

BEGIN TAPER
 STA 331+25.04
 OFF 21.21'RT

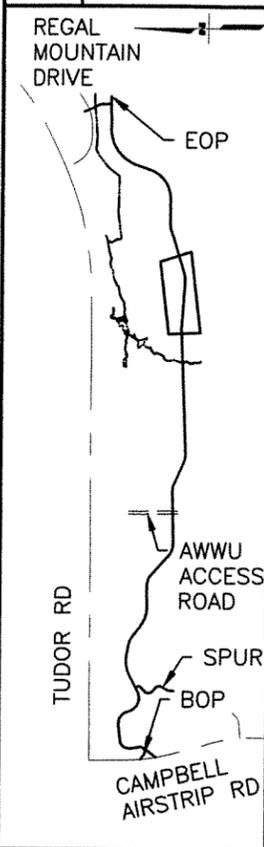
PI = STA 334+91.93
 N = 326385.9729
 E = 373023.7087
 $\Delta = 21'28'55''$
 R = 200.00
 T = 37.94
 L = 74.99



SHEET NO.	TOTAL SHEETS
F7	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION

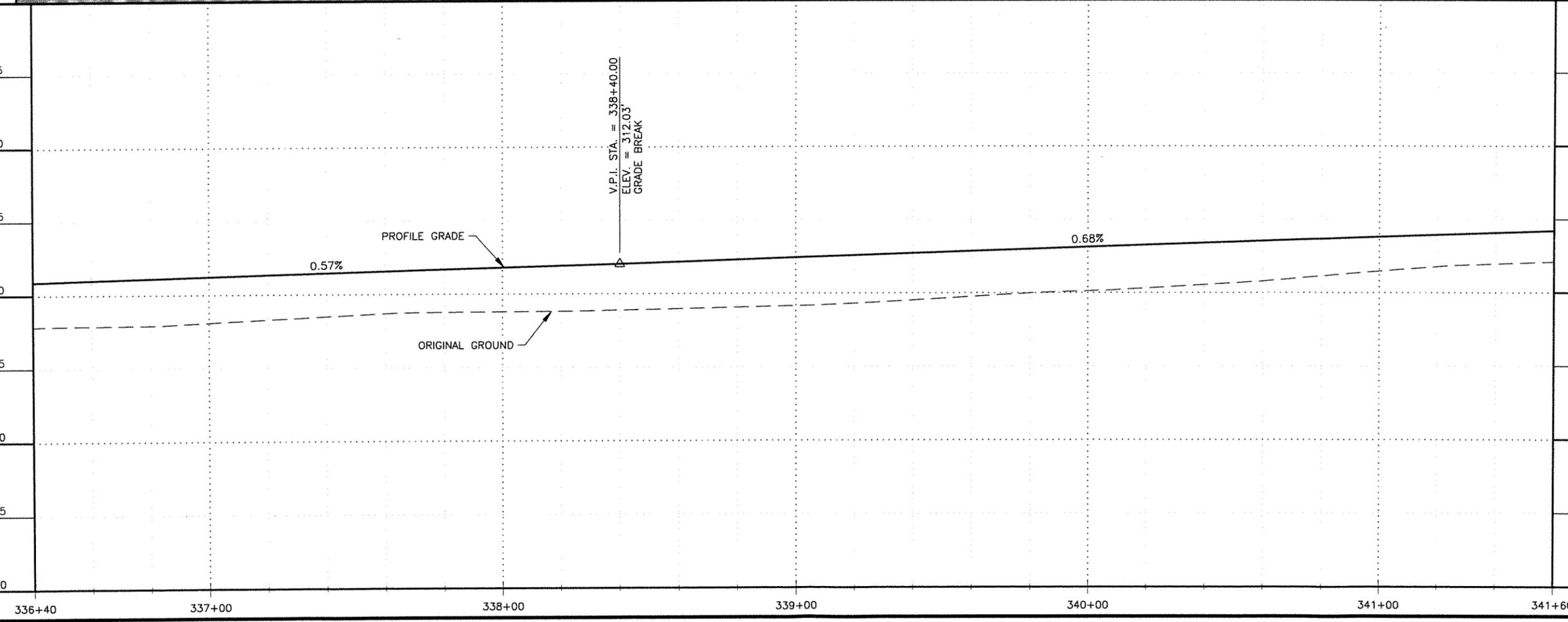
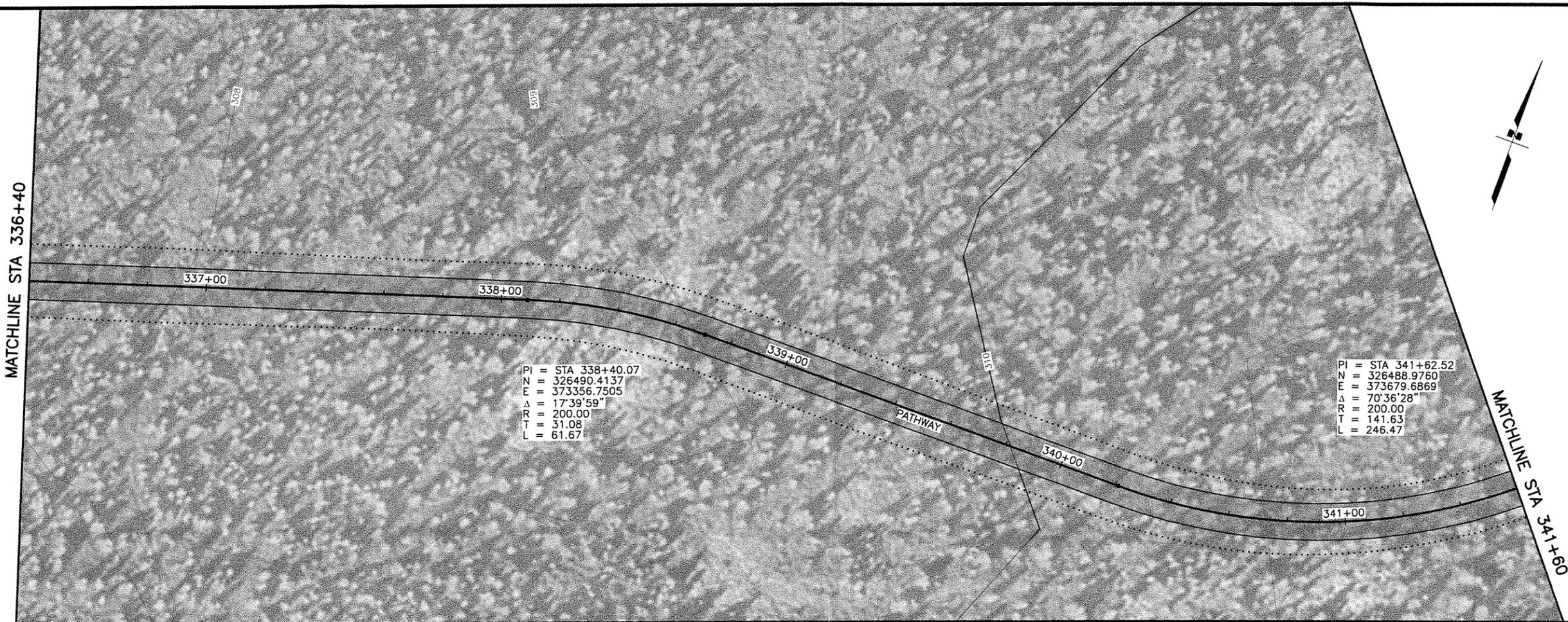


STATE OF ALASKA
 49th
 APRIL 2021
 PROFESSIONAL ENGINEER
 R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**
 PLAN & PROFILE
 331+20 TO 336+40

FILE Z:\PROJECT\2428.10 MOA PRD TERM CHUGACH FOOTHILLS NE CONNECTOR\CIVIL\ACAD\2428.10-F-PLAN & PROFILE.DWG DATE/TIME 4/14/2021 11:56 AM LAYOUT FB DESIGNED CHECKED DRAFTED

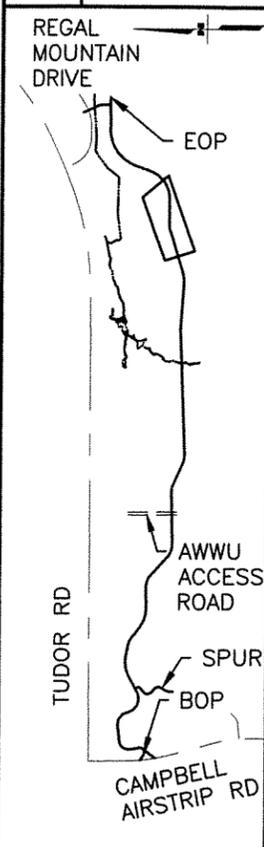
MATCHLINE STA 336+40



SHEET NO.	TOTAL SHEETS
F8	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

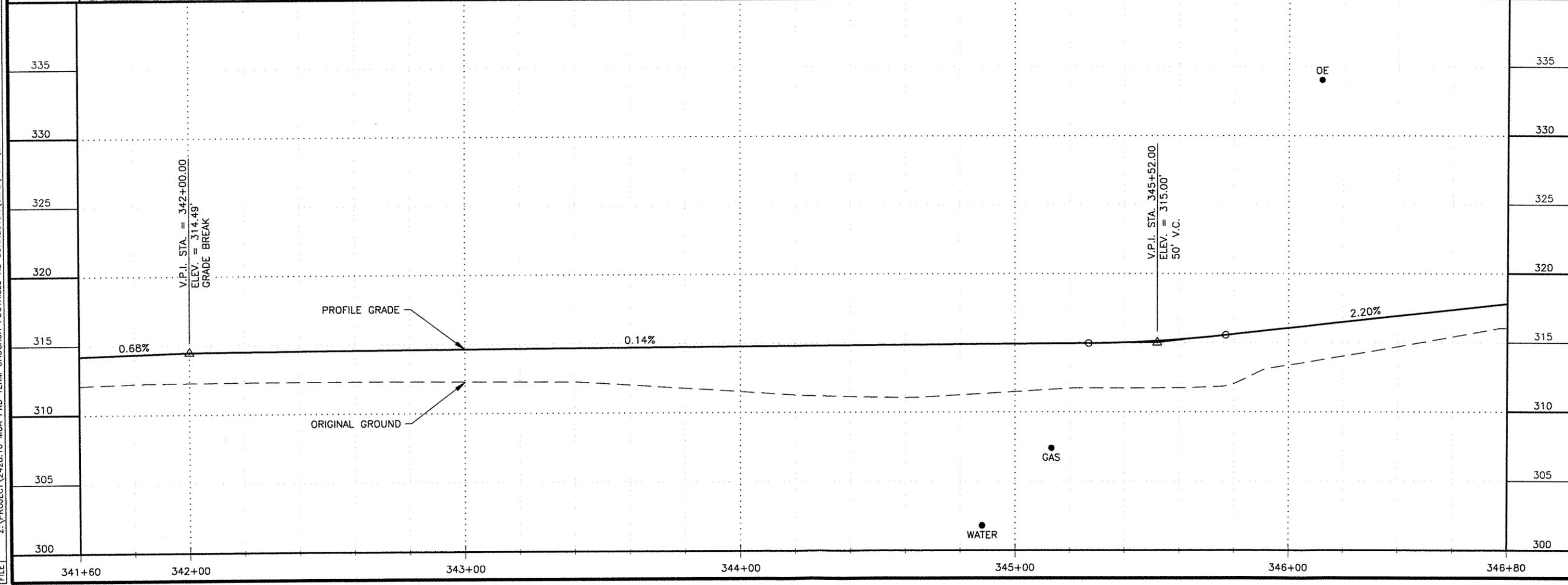
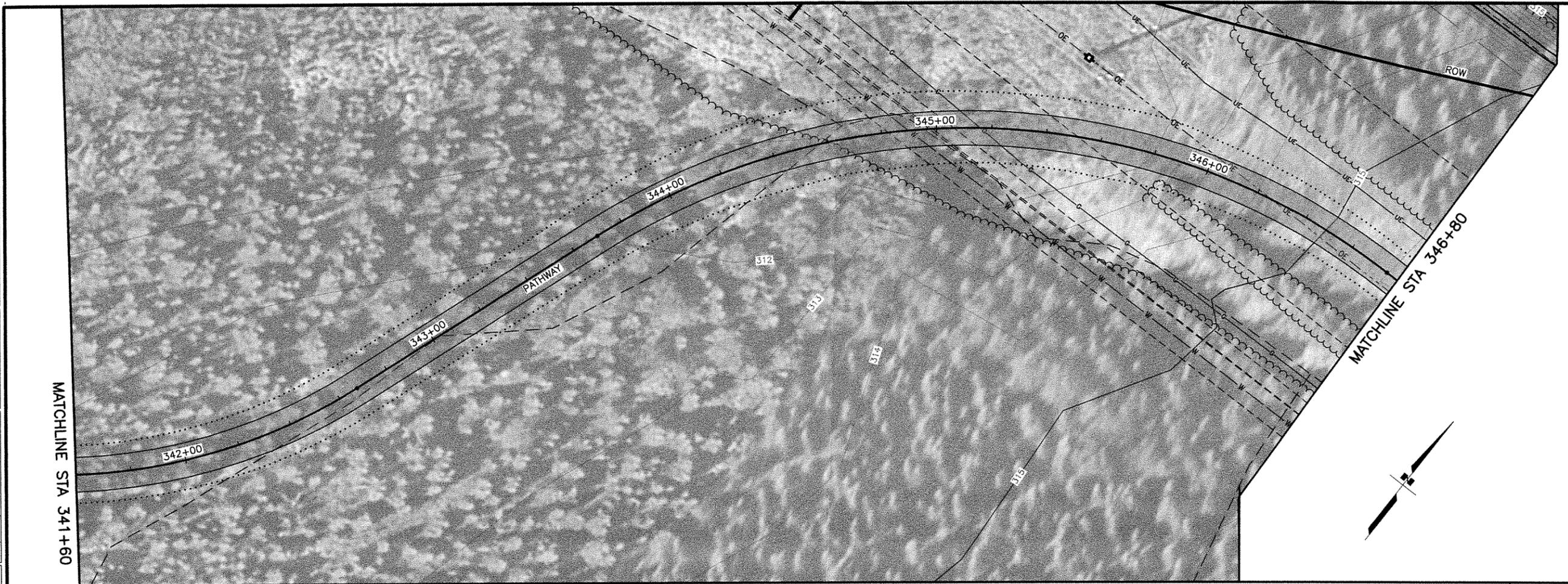
NO.	REVISION



STATE OF ALASKA
40th
PIH APRIL 2021
REGISTERED PROFESSIONAL ENGINEER
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
CERT. OF AUTH. NO. AEC0111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**
PLAN & PROFILE
336+40 TO 341+60

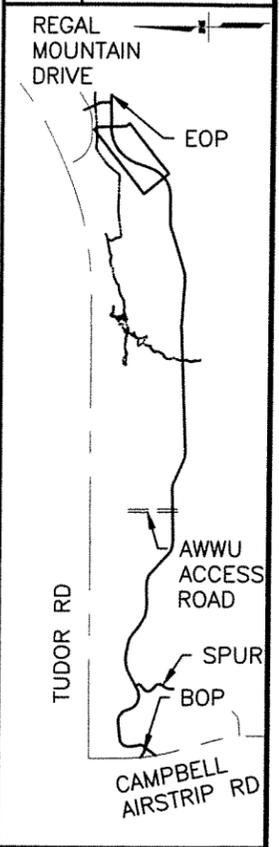
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SHEET NO.	TOTAL SHEETS
F9	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION



STATE OF ALASKA
 49th
 APRIL 2021
 PIH
 PROFESSIONAL ENGINEER

R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
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 (907) 522-1707
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

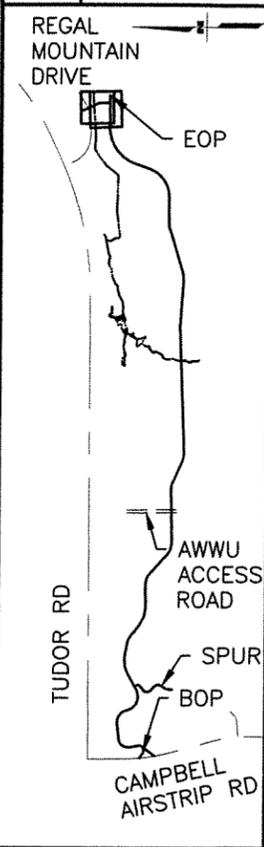
PLAN & PROFILE
 341+60 TO 346+80

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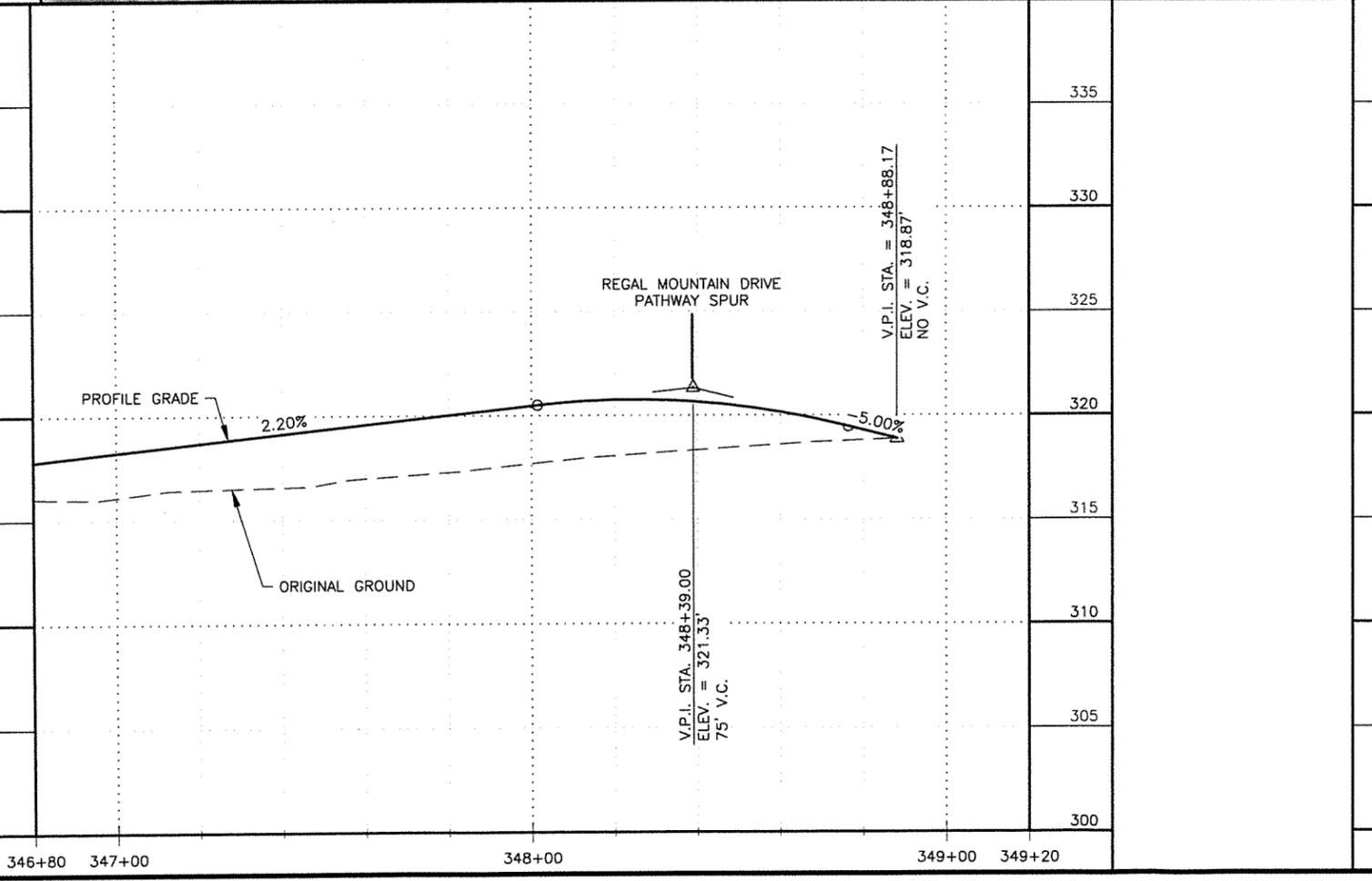
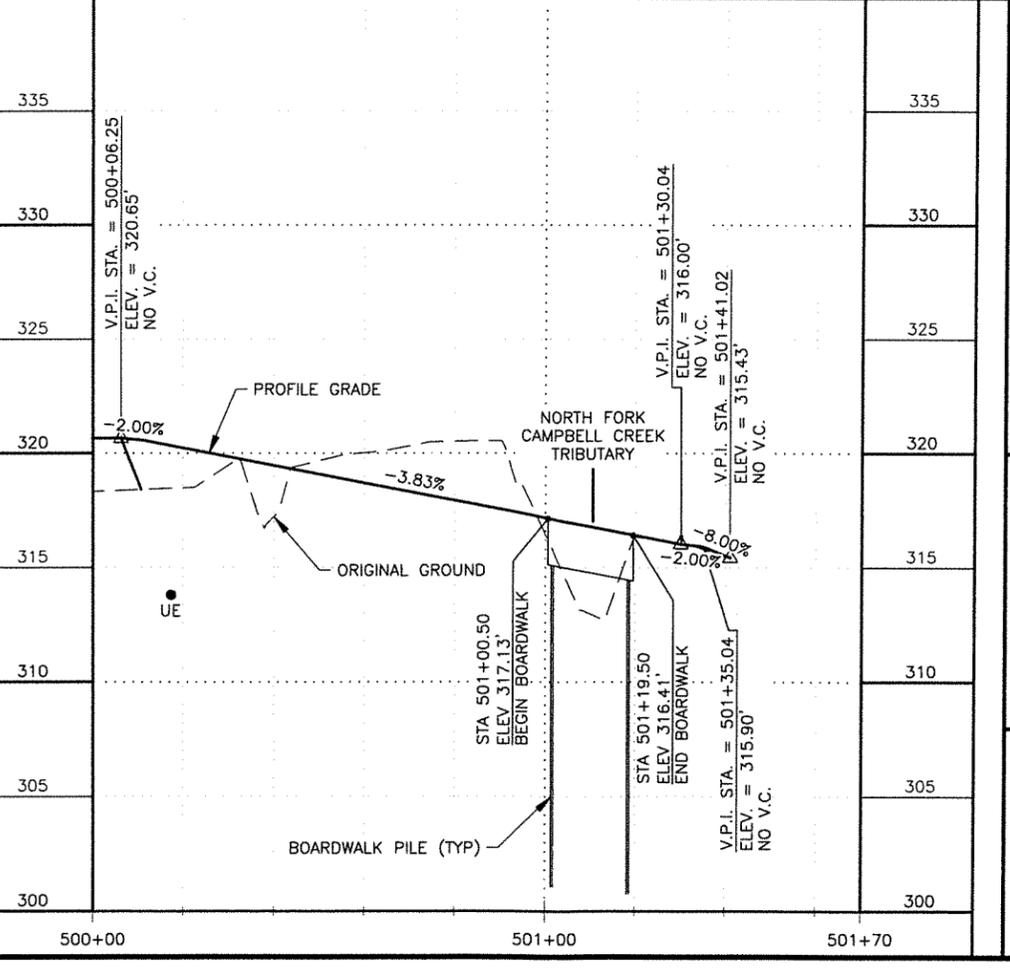
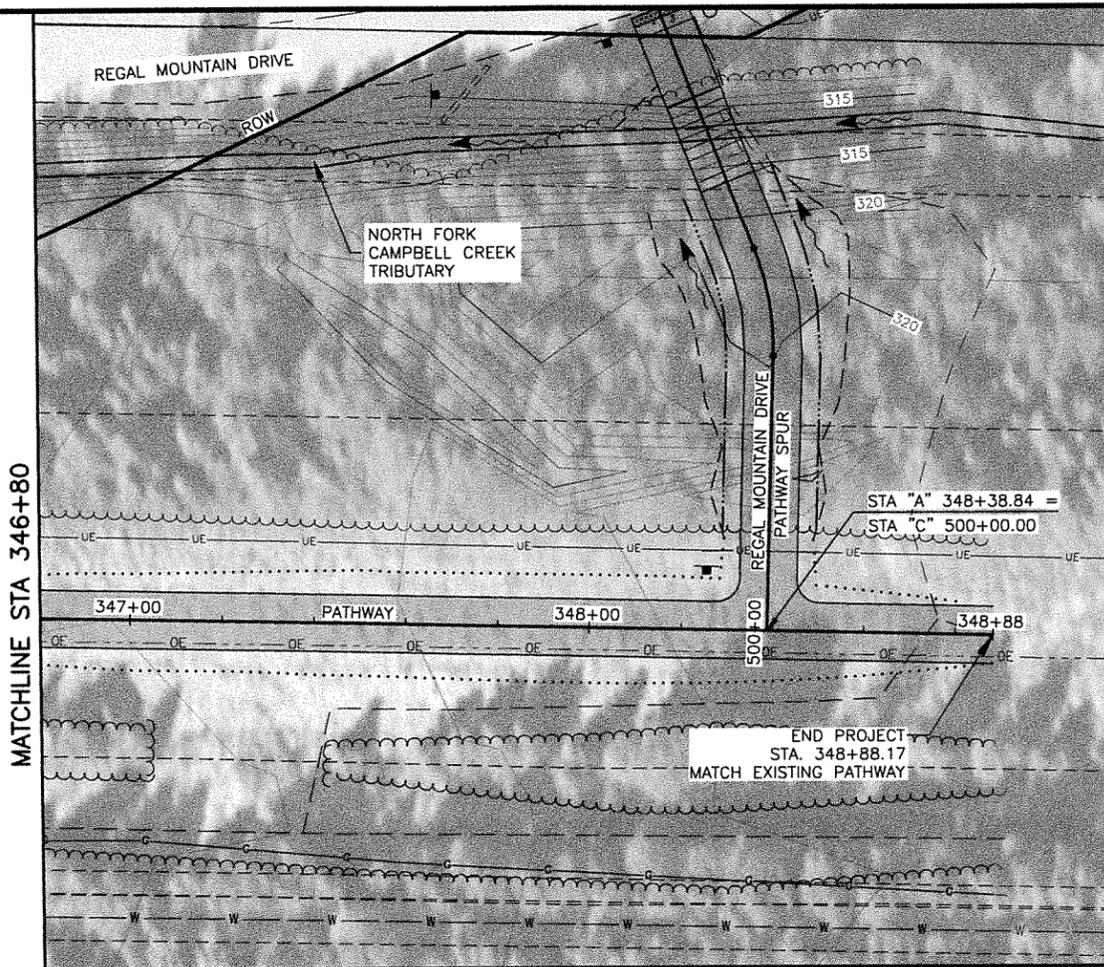
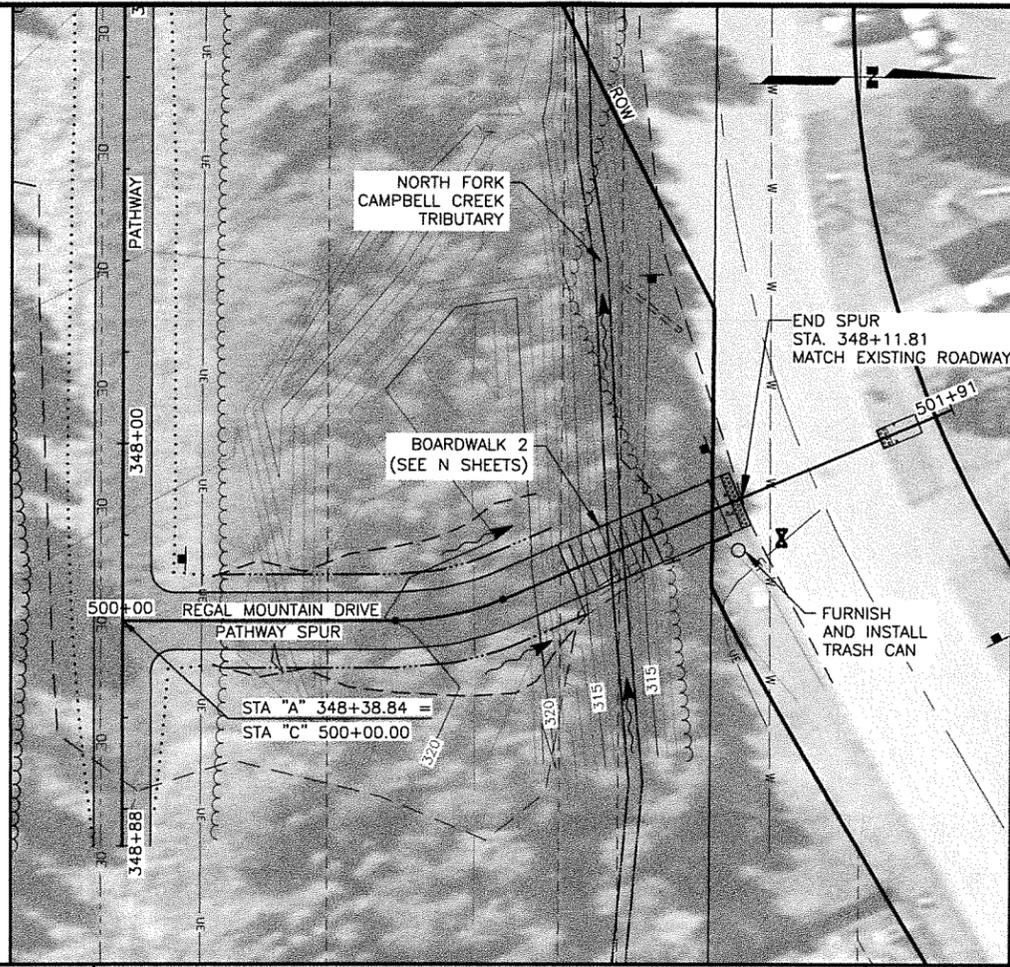
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STATE	YEAR
ALASKA	2021

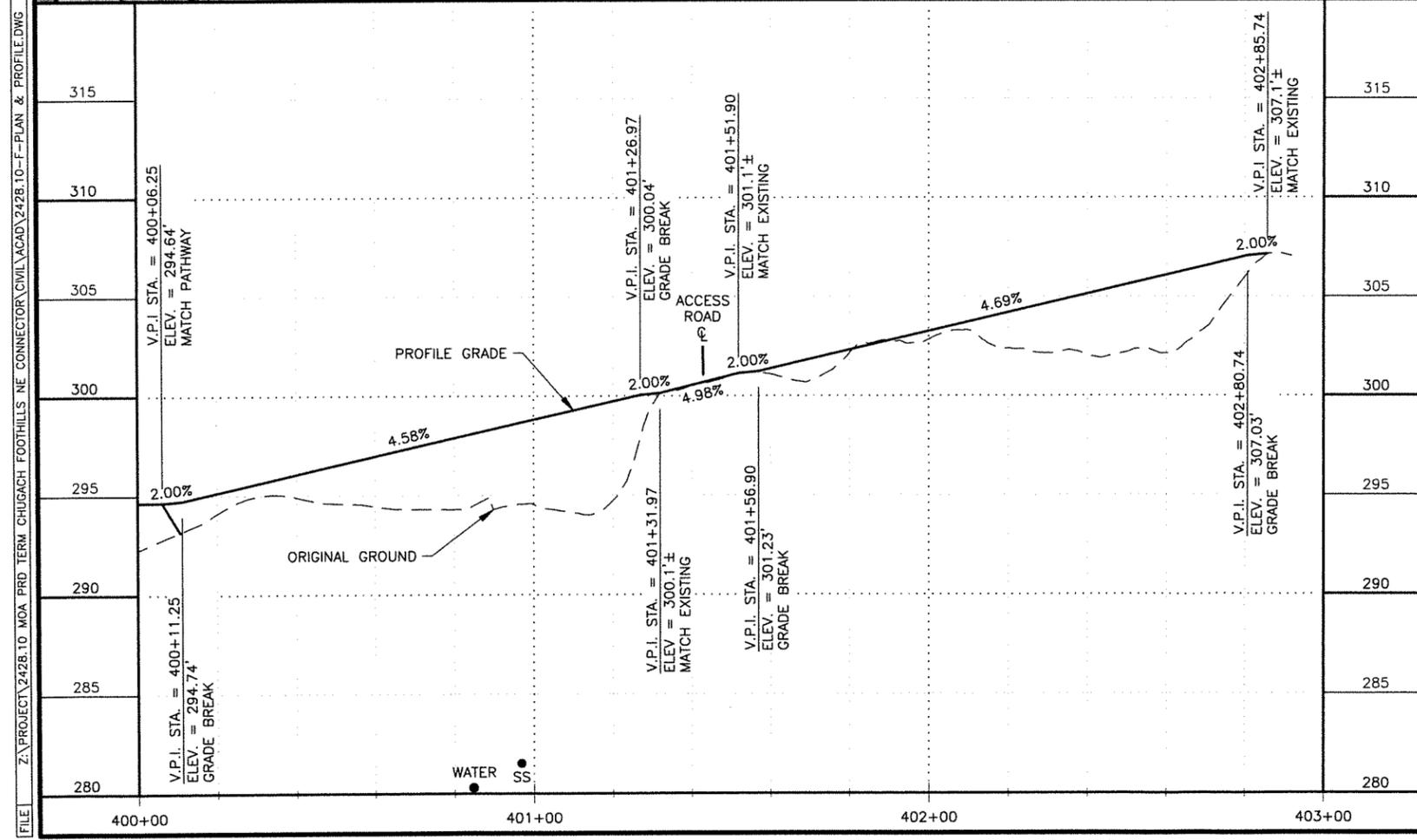
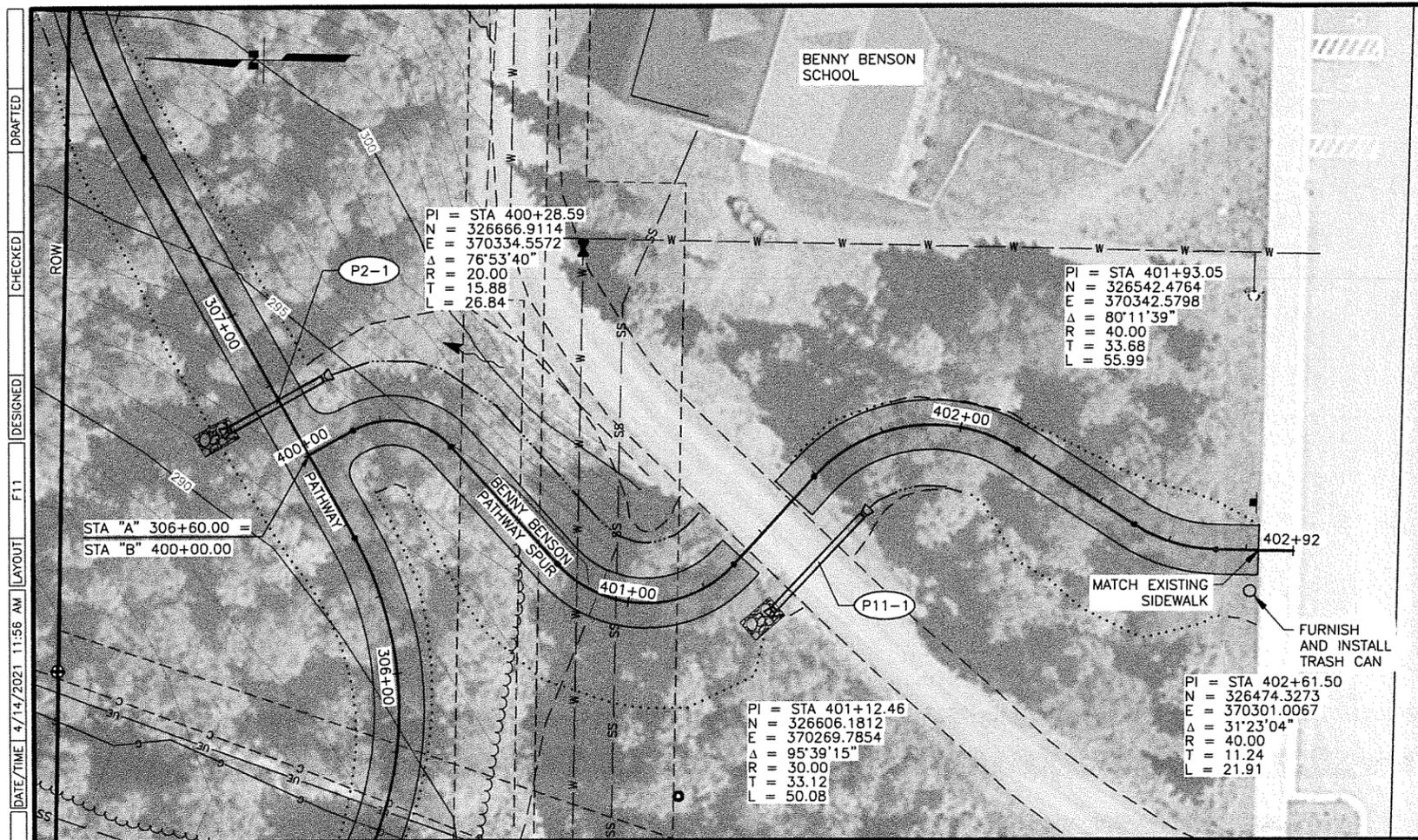
PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II
 PLAN & PROFILE
 346+80 TO EOP,
 REGAL MOUNTAIN
 SPUR



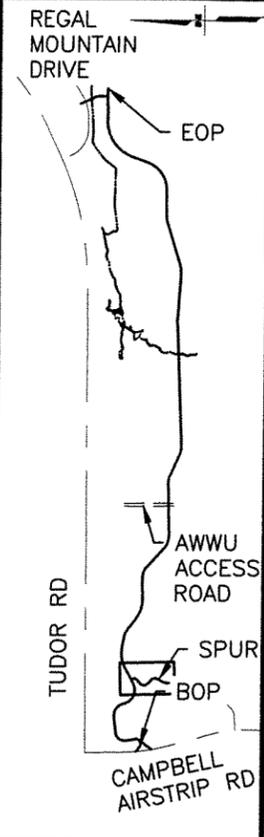


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SHEET NO.	TOTAL SHEETS
F11	F11
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

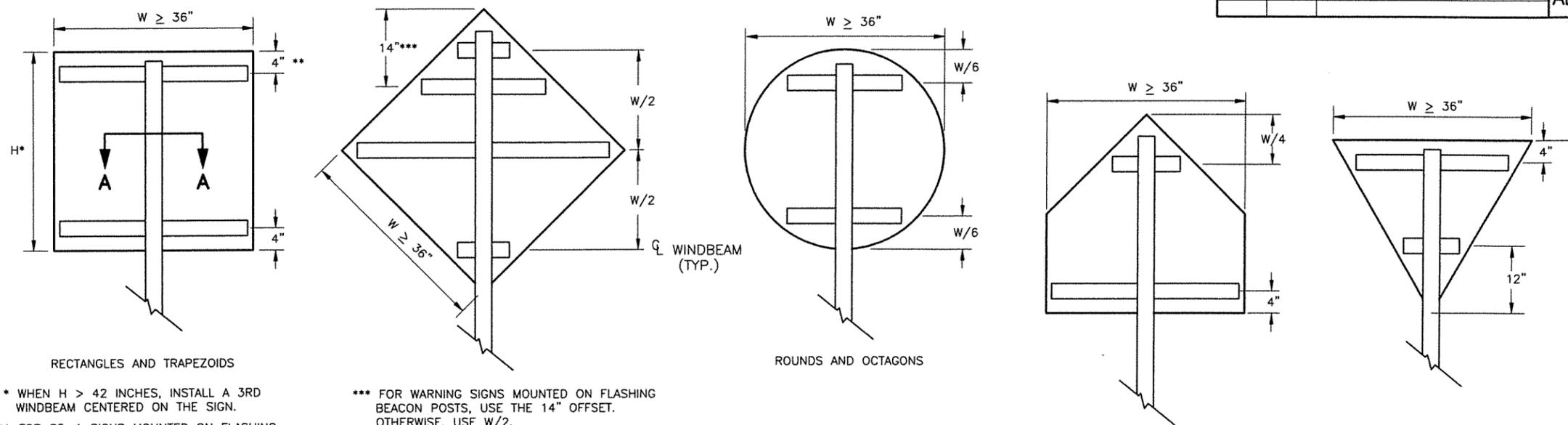
NO.	REVISION



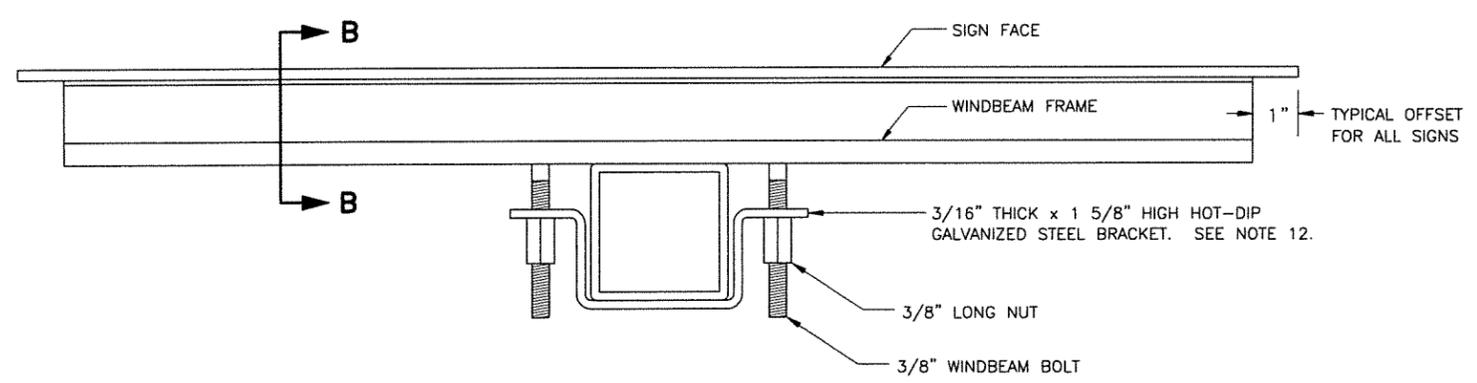
R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**
 PLAN & PROFILE
 SCHOOL SPUR

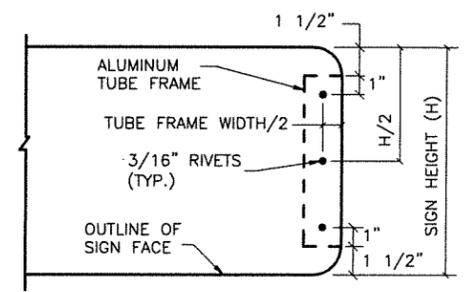
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			ALASKA	TA18004/CFHWY00387	2021	H1	H6



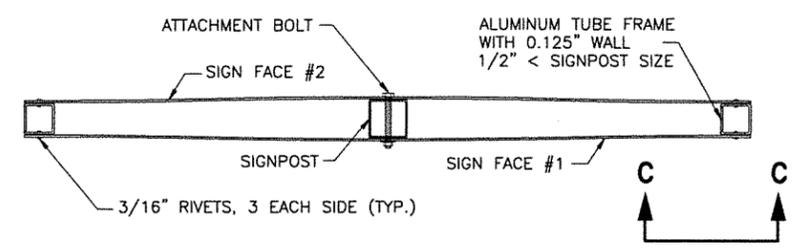
WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
ELEVATION VIEW



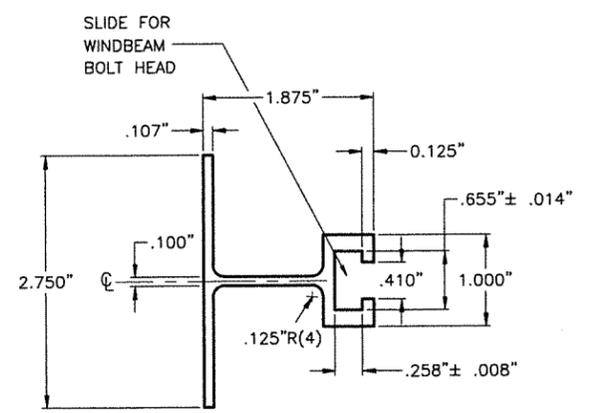
SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM



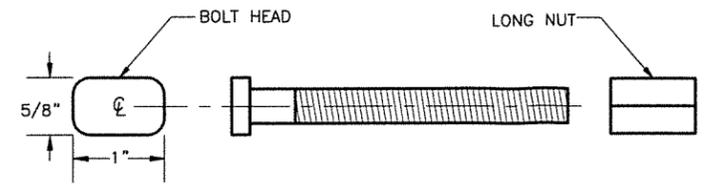
VIEW C - C



D3-1 STREET NAME SIGN FRAMING DETAIL
PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
- THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
B. THE APPLICATION OF THE ADHESIVE TAPE.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.



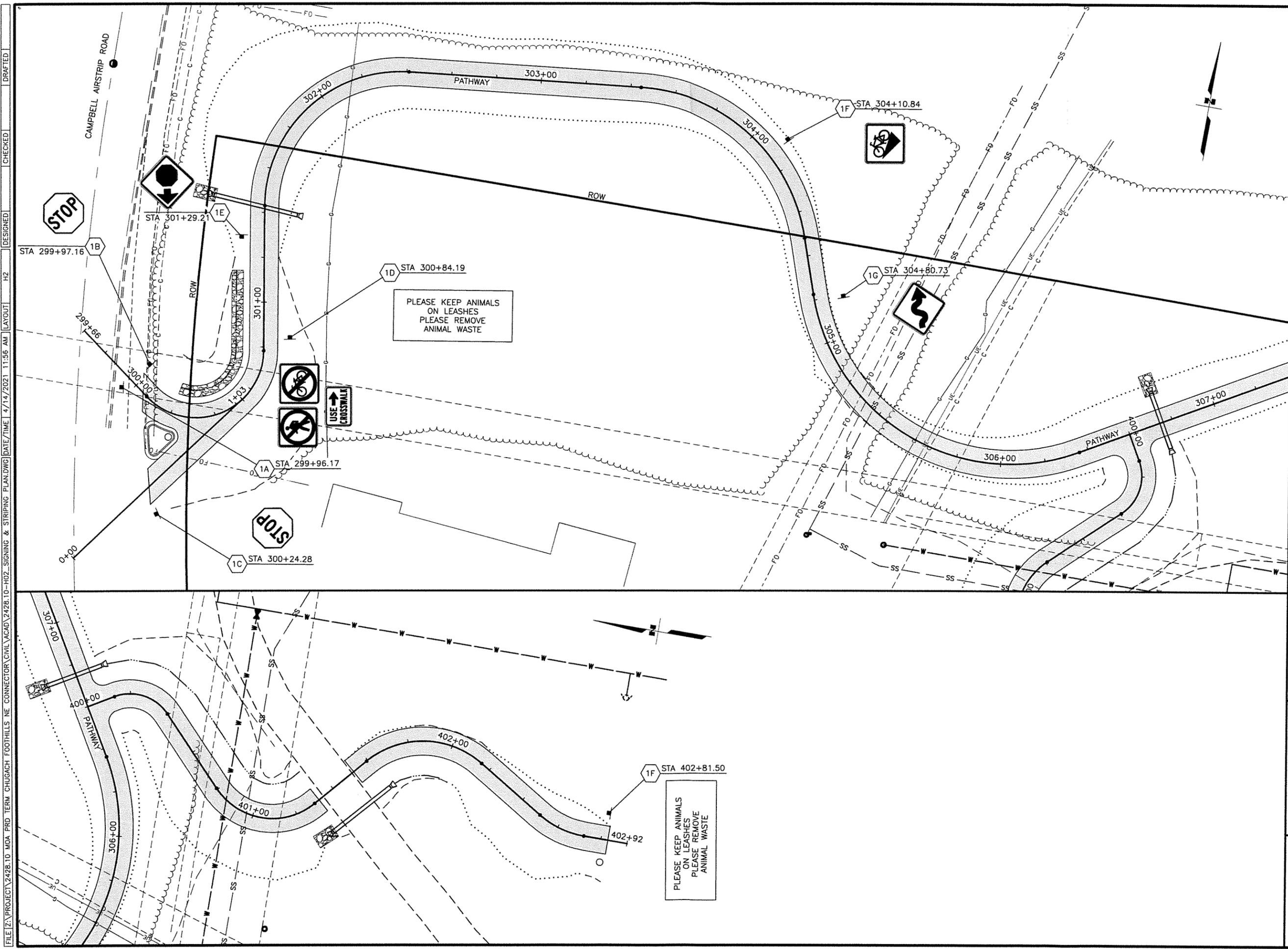
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS

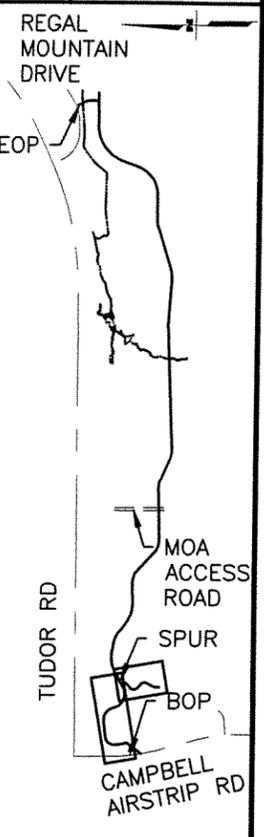
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
CERT. OF AUTH. NO. AEC1111

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 DESIGNED CHECKED DRAFTED



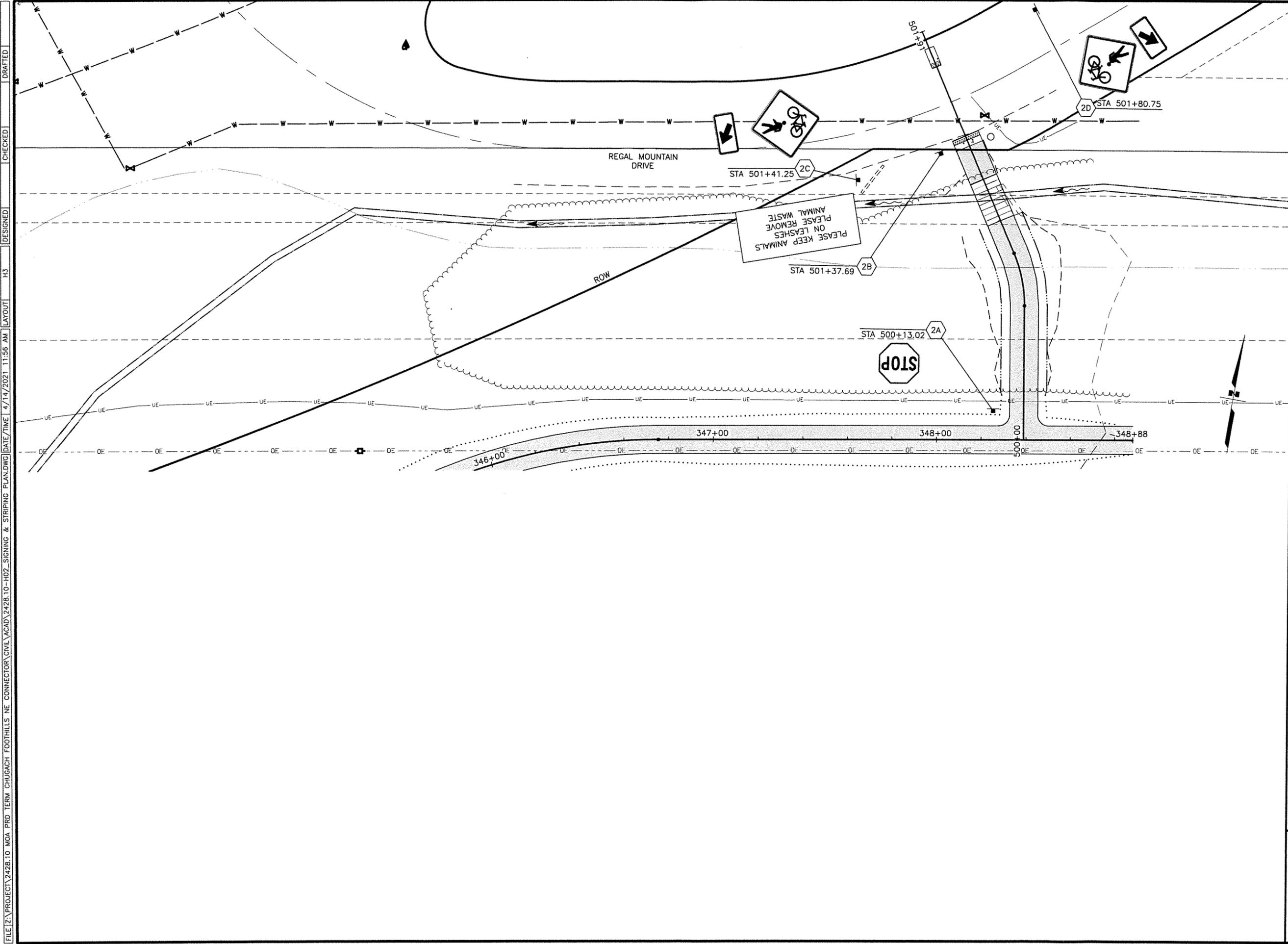
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SHEET NO.	TOTAL SHEETS
H2	H6
STATE	YEAR
ALASKA	2021
PROJECT DESIGNATION	
TA18004 CFHWY00387	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II
 SIGNING PLAN

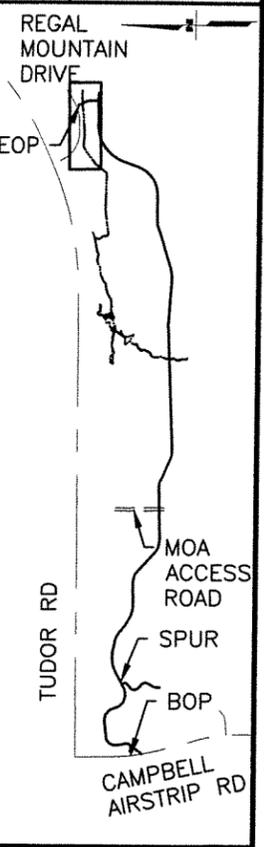


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SHEET NO.	TOTAL SHEETS
H3	H6
STATE	YEAR
ALASKA	2021

PROJECT DESIGNATION
TA18004
CFHWY00387

NO.	REVISION



R&M CONSULTANTS, INC.
 9101 VANGUARD DRIVE
 ANCHORAGE, AK 99507
 (907) 522-1707
 CERT. OF AUTH. NO. AECC111

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II

SIGNING PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	TA18004/CFHWY00387	2021	H4	H6

STANDARD SIGN - 615.0001.0000

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN)		AREA (SF)	SIGN FACES	POST SIZE	FRAMED		REMARKS
						W	H				YES	NO	
1A	299+96	RT	R9-3a		18	18	2.25	E	2.5" PST		X		
			R5-6		18	18	2.25	E	2.5" PST		X		
			R9-3b		18	12	1.5	E	2.5" PST		X		
1B	299+96	LT	R1-1		18	18	2.25	SE	2.5" PST		X		
1C	300+24	RT	R1-1		18	18	2.25	NE	2.5" PST		X		
H2	1D	300+84	RT	CUSTOM	PLEASE KEEP ANIMALS ON LEASHES	18	18	2.25	S	2.5" PST		X	
	1E	301+29	LT	W3-1		18	18	2.25	N	2.5" PST		X	
	1F	304+11	LT	W7-5		18	18	2.25	SE	2.5" PST		X	
	1G	304+81	LT	W1-5R		18	18	2.25	S	2.5" PST		X	
	1H	402+82	LT	CUSTOM	PLEASE KEEP ANIMALS ON LEASHES	18	18	2.25	S	2.5" PST		X	
	2A	500+13	LT	R1-1		18	18	2.25	N	2.5" PST		X	
	2B	501+38	LT	CUTSOM	PLEASE KEEP ANIMALS ON LEASHES	18	18	2.25	N	2.5" PST		X	
H3	2C	501+41	LT	W11-15		30	30	6.25	W	2.5" PST		X	
				W16-7PR		24	12	2	W	2.5" PST		X	
2D	501+81	RT	W11-15		30	30	6.25	NE	2.5" PST		X		
			W16-7PL		24	12	2	NE	2.5" PST		X		
						TOTAL:		40.75					
						PAY ITEM QUANTITY:		41					



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II**

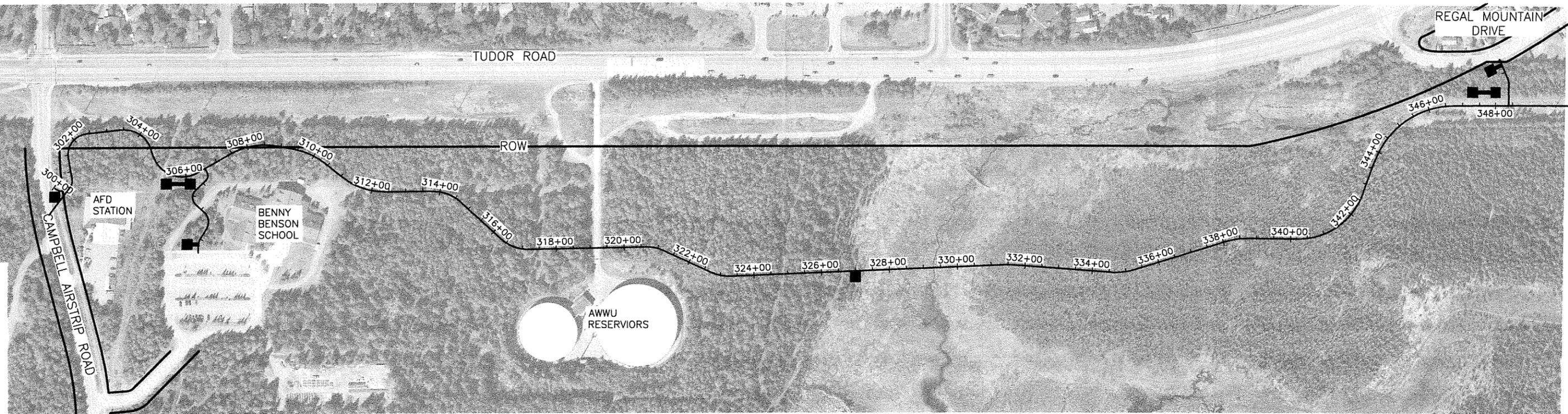
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R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
CERT. OF AUTH. NO. AECC111

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 H5 LAYOUT
 DESIGNED
 CHECKED
 DRAFTED



LEGEND

-  KIOSK
-  DIRECTIONAL
-  MILE MARKER



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II**

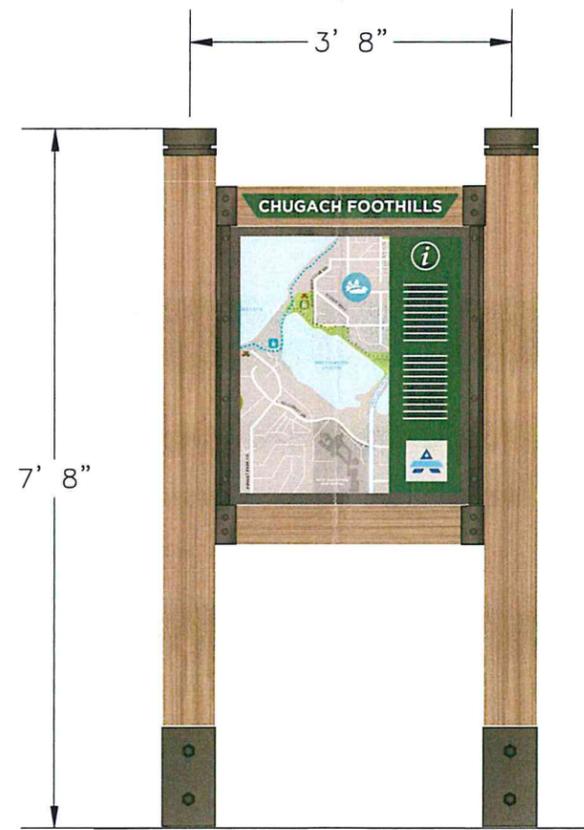
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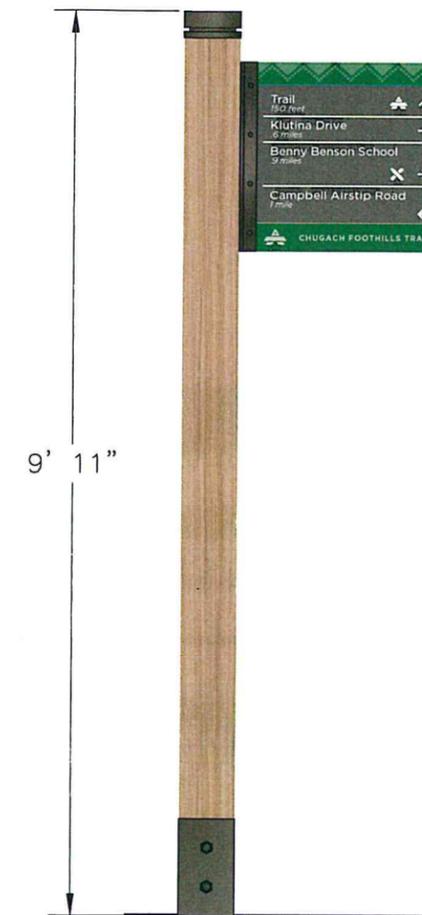
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 DESIGNED
 CHECKED
 DRAFTED



MILE MARKER



KIOSK



DIRECTIONAL

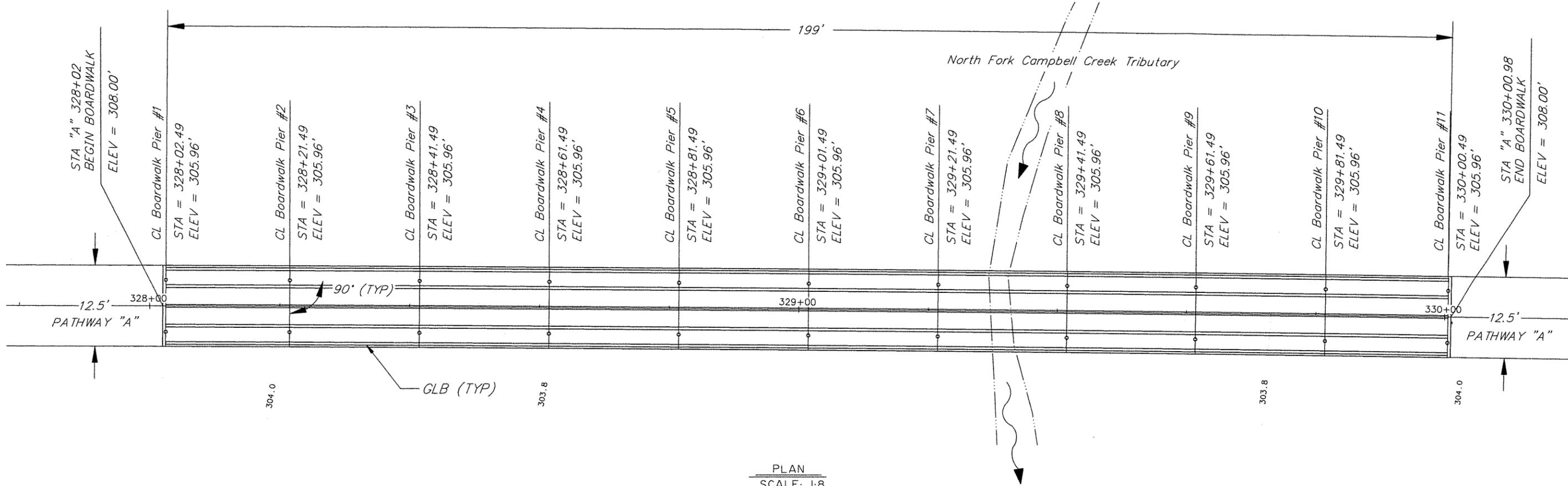


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**AMATS: CHUGACH
 Foothills CONNECTOR,
 PHASE II**

WAYFINDING DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TA18004/CFHWY00387	2021	N1	N5



PLAN
SCALE: 1:8

Project\2428.10 MOA PRD Term Chugach Foothills NE Connector\Civil\ACAD\2428.10-N1 Boardwalk Plan-SHT N01 Wed, Apr/14/21 12:05pm

DESIGNED BY:	JMC	CHECKED BY:	MDA	LAYOUT BY:	MDA	CHECKED BY:	JMR
DRAWN BY:	JMC	CHECKED BY:	JMR	SPECIFICATIONS BY:	MDA	P S & E COMPARED:	PLANCHHECKER
QUANTITIES BY:	MDA	CHECKED BY:	JMC	APPROVAL RECOMMENDED BY:		APPROVAL	

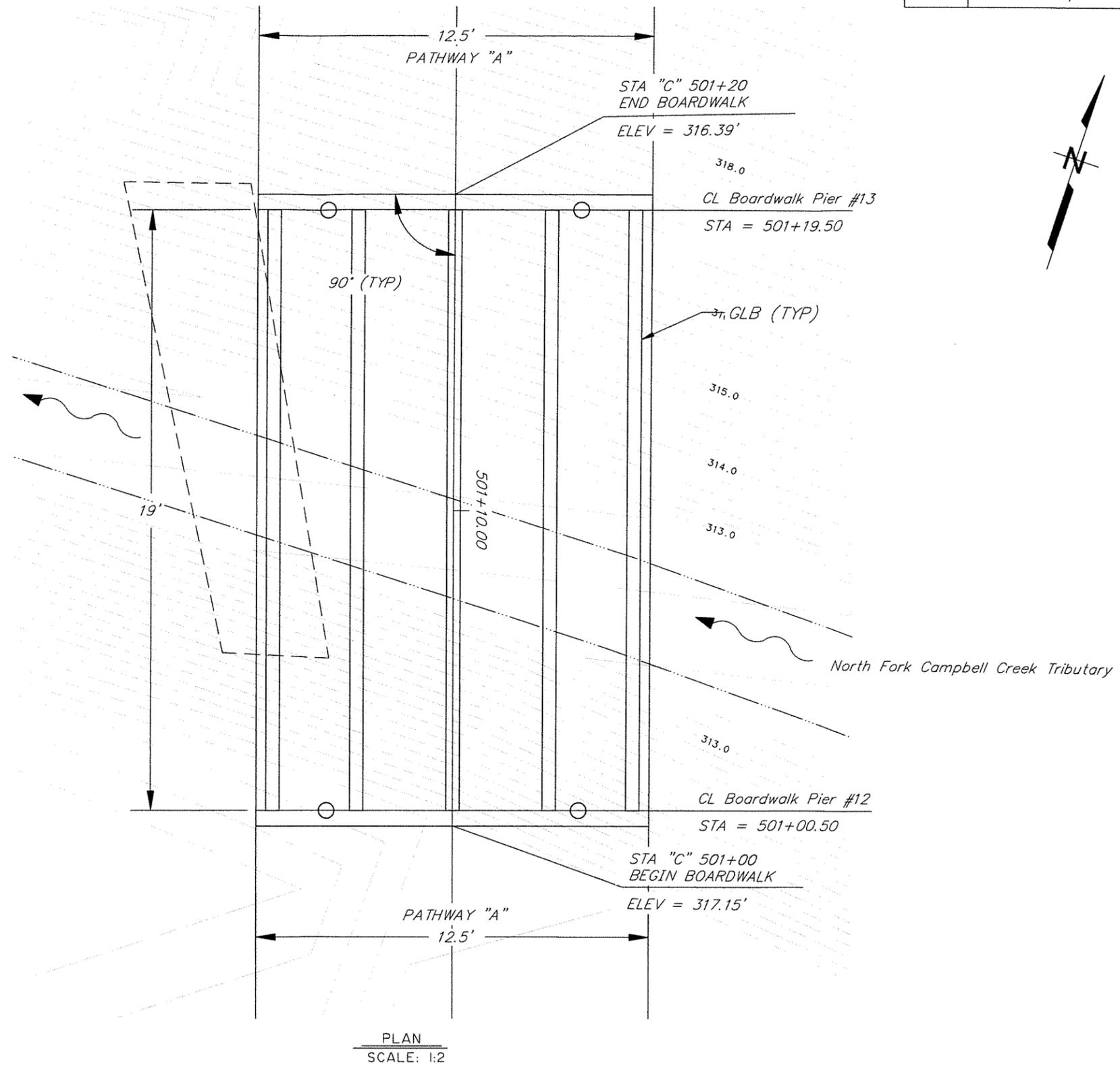
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907-522-1707



BOARDWALK 1
AMATS: CHUGACH FOOTHILLS CONNECTOR PHASE II
PIER LOCATION PLAN


BRIDGE NO. N/A
DWG NO. I

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TA18004/CFHWY00387	2021	N2	N5



PLAN
SCALE: 1:2

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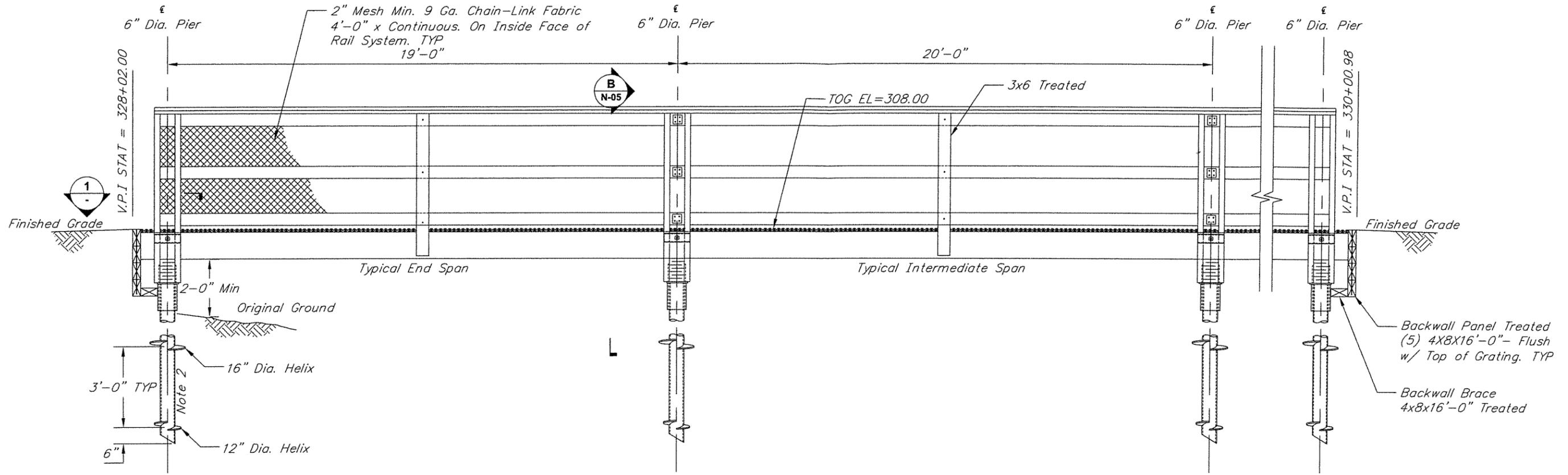
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QUANTITIES BY:	MDA	CHECKED:	JMC	APPROVAL RECOMMENDED BY:		APPROVAL	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907-522-1707

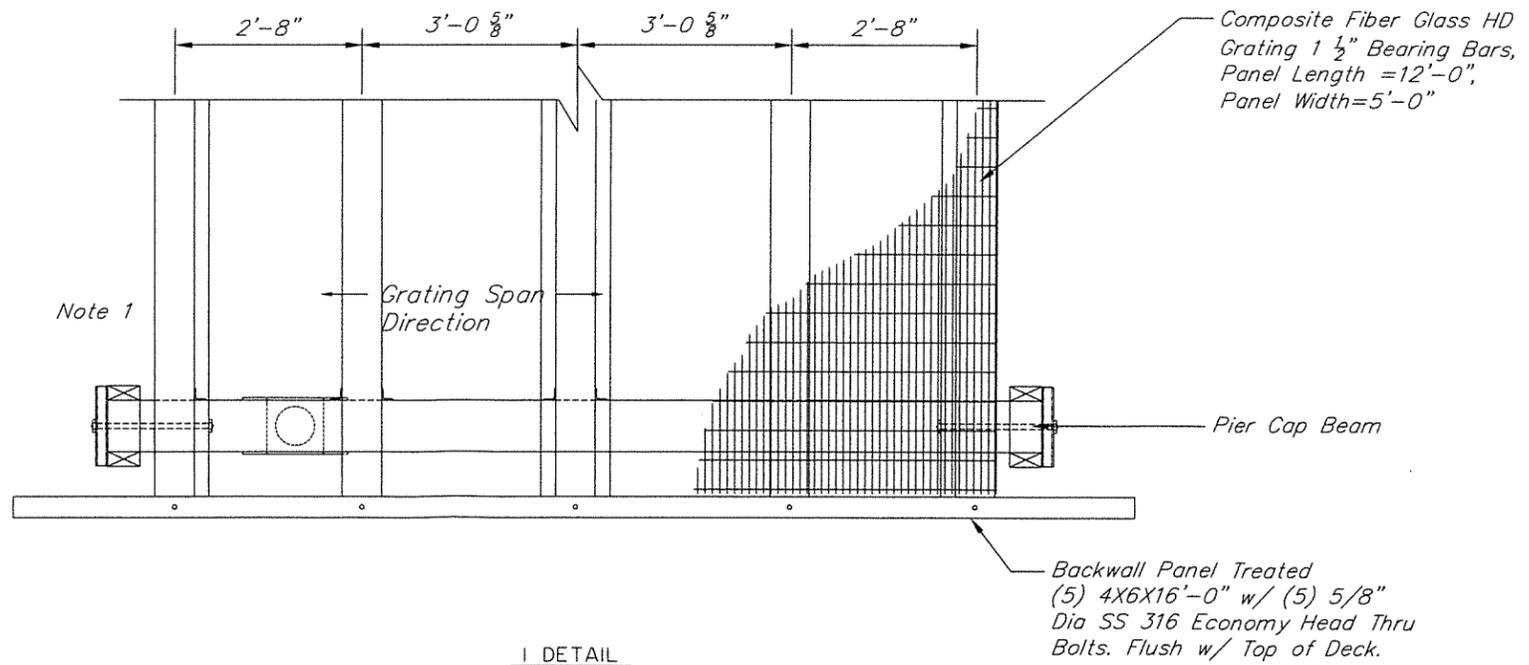


BOARDWALK 2
AMATS: CHUGACH FOOTHILLS CONNECTOR PHASE II
PIER LOCATION PLAN

BRIDGE NO. N/A
DWG NO. 2



SOUTH ELEVATION VIEW
SCALE: 1/2"=1'-0"



I DETAIL
SCALE: 3/4"=1'-0"

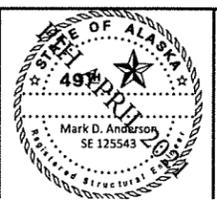
NOTES

1. Railing System Not Shown for Clarity.
2. Nominal Installation torque of 16,000 ft-lbs required.

\\vmrnet\z\project\2428.10 MOA PRD Term Chugach Foothills NE Connector\Civil\ACAD\Boardwalk-Josh Cheney WIP\SHD N03-Drawing 1 Fri, Feb/26/21 01:58pm

DESIGNED BY:	JMC	CHECKED:	MDA	LAYOUT BY:	MDA	CHECKED BY:	JMR
DRAWN BY:	JMC	CHECKED:	JMR	SPECIFICATIONS BY:	MDA	P S & E COMPARED:	PLANCHHECKER
QUANTITIES BY:	MDA	CHECKED:	JMC	APPROVAL RECOMMENDED BY:		APPROVAL	

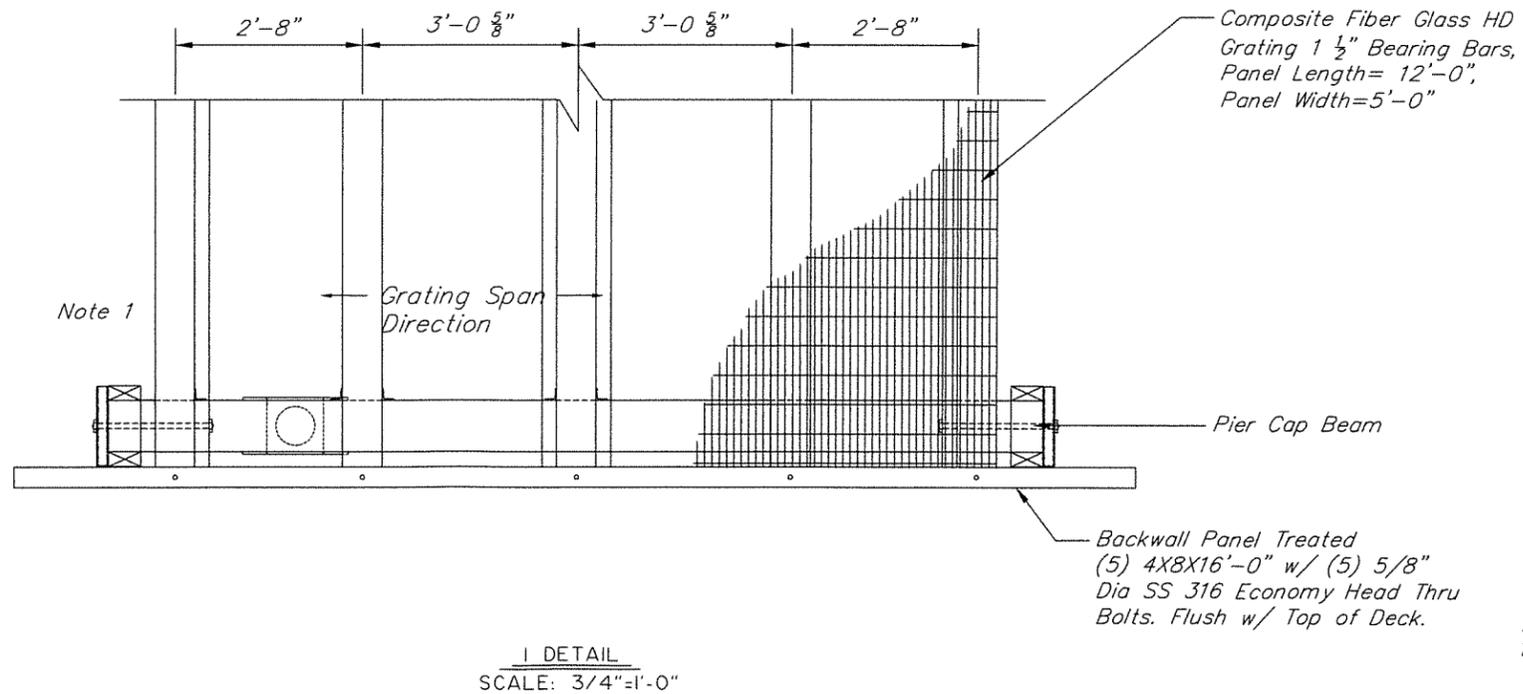
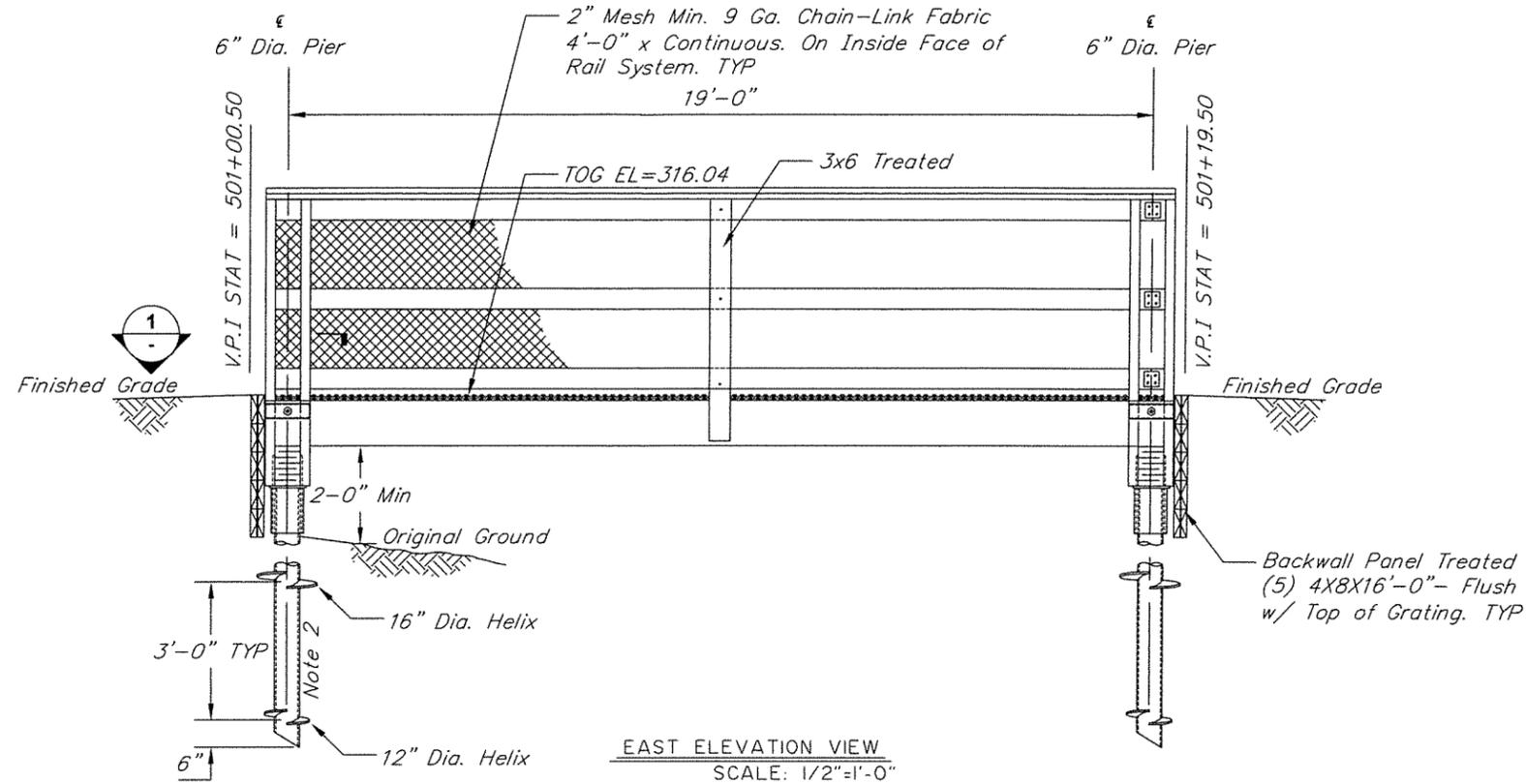
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907-522-1707
CERT. OF AUTH. No. AECC111



BOARDWALK 1
AMATS: CHUGACH FOOTHILLS CONNECTOR PHASE II
DECK

BRIDGE NO. N/A
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TA18004/CFHWY00387	2021	N4	N5



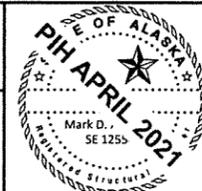
NOTES

1. Railing System Not Shown for Clarity.
2. Nominal Installation torque of 16,000 ft-lbs required.

Z:\project\2428.10 MOA PRD Term Chugach Foothills NE Connector\Civil\ACAD\Boardwalk-Josh Chaney WIP\SHIT N04-Drawing 1 Wed, Apr/14/21 11:48am

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DRAWN BY:	JMC	CHECKED:	JMR	SPECIFICATIONS BY:	MDA	P S & E COMPARED:	PLANCHECKER
QUANTITIES BY:	MDA	CHECKED:	JMC	APPROVAL RECOMMENDED BY:		APPROVAL	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
907-522-1707
CERT. OF AUTH. No. AECC111

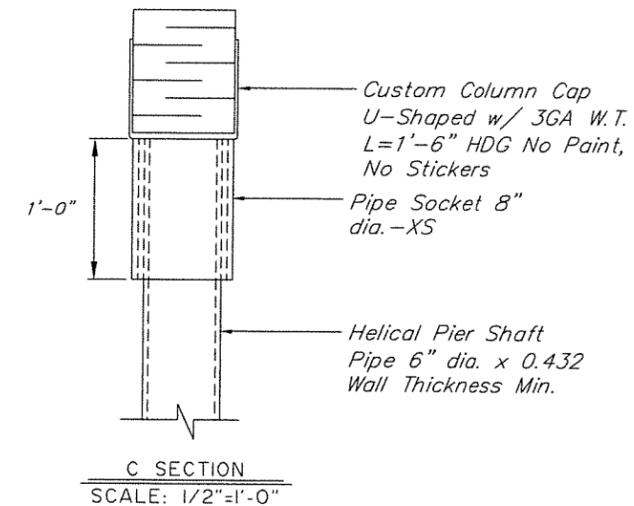
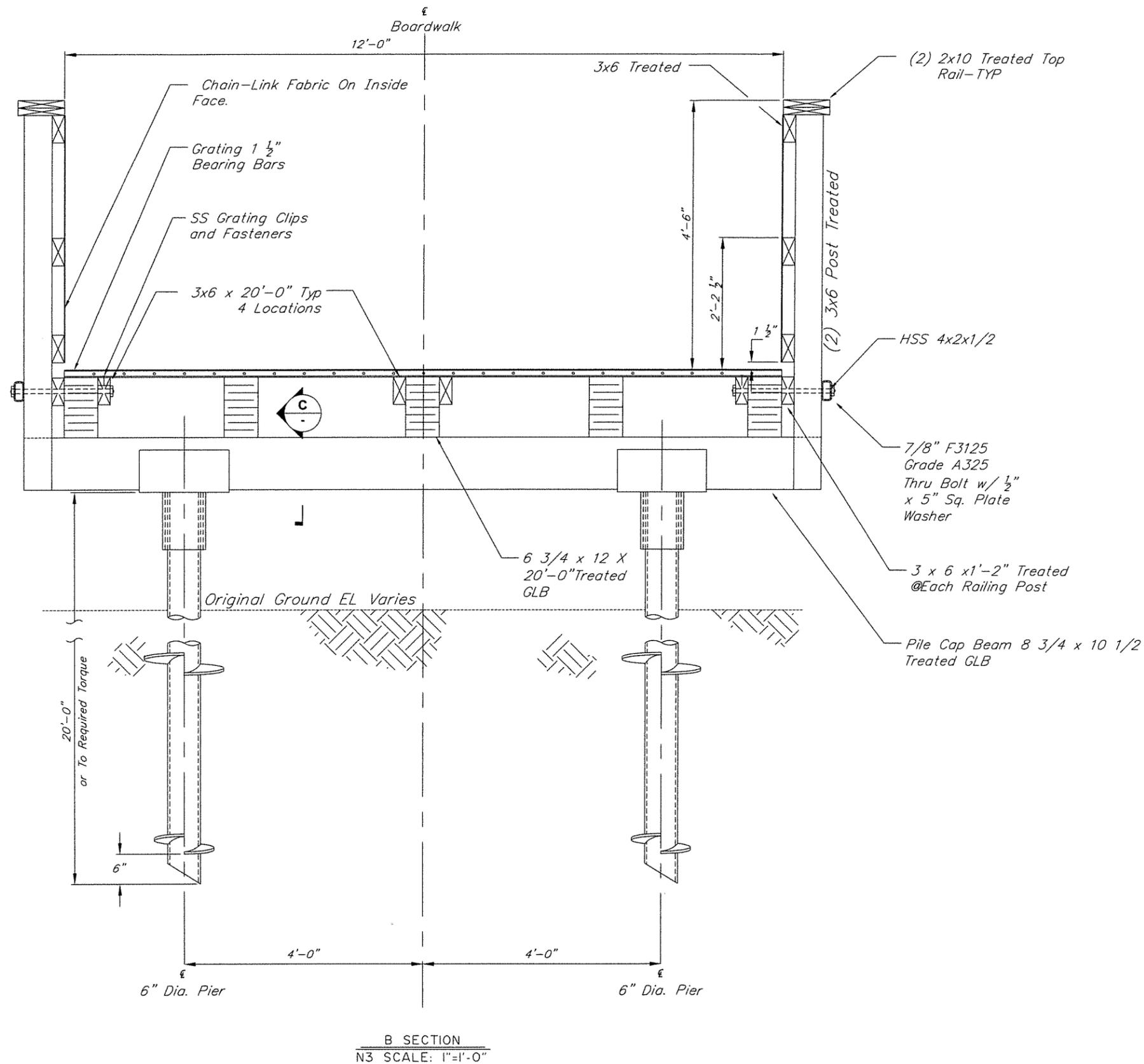


BOARDWALK 2
AMATS: CHUGACH FOOTHILLS CONNECTOR PHASE II
DECK



BRIDGE NO. N/A
DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	TA18004/CFHWY00387	2021	N5	N5

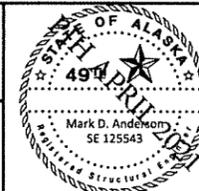


B SECTION
N3 SCALE: 1"=1'-0"

\\rm.rmet\z\project\2428.10 MDA PRD Term Chugach Foothills NE Connector\Civil\CAD\Boardwalk-Josh Cheney WIP\SHT N05-Drawing 1 Fri, Feb/26/21 02:01pm

DESIGNED BY:	JMC	CHECKED:	MDA	LAYOUT BY:	MDA	CHECKED BY:	JMR
DRAWN BY:	JMC	CHECKED:	JMR	SPECIFICATIONS BY:	MDA	P S & E COMPARED:	PLANCHER
QUANTITIES BY:	MDA	CHECKED:	JMC	APPROVAL RECOMMENDED BY:		APPROVAL	

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE
 ANCHORAGE, ALASKA 99507 907-522-1707
 CERT. OF AUTH. NO. AECC111

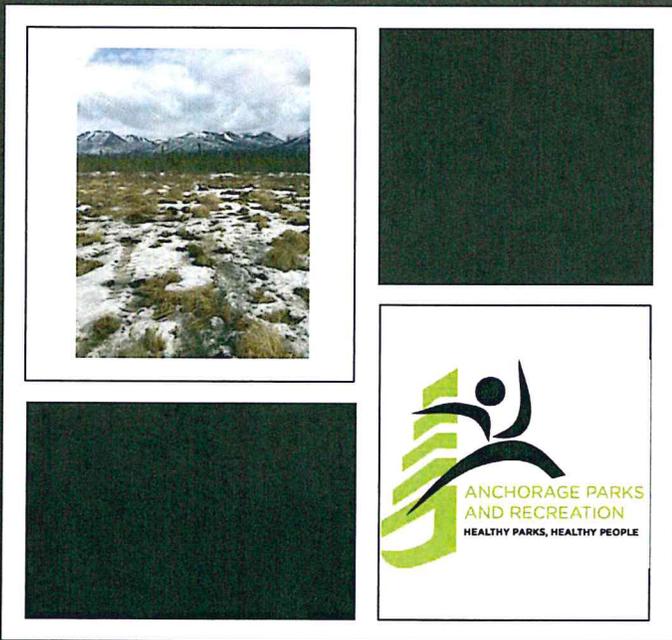


BOARDWALK 1 AND 2
 AMATS: CHUGACH FOOTHILLS CONNECTOR PHASE II
TYPICAL SECTION



BRIDGE NO. N/A
 DWG. NO. 5

Attachment C
Public Involvement Materials



Virtual Public Open House

AMATS: Chugach
Foothills Connector,
Phase II

February 4, 2021
@ 7:00 PM via ZOOM

Project Team



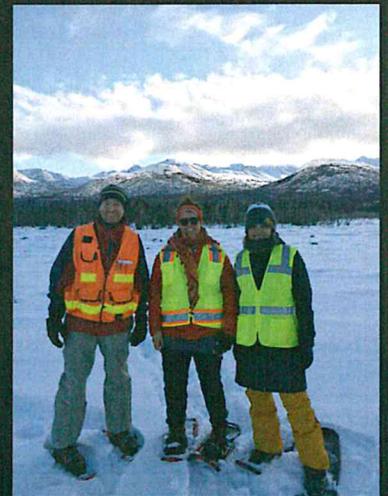
Municipality of Anchorage Parks & Recreation
□ Taylor Keegan, Project Manager



DOT&PF
□ Kevin Jackson, P.E., Project Manager



R&M Consultants, Inc.
□ Marc Frutiger, P.E., PTOE, Project Manager
□ Van Le, AICP, Planning & Public Involvement Lead



Project Overview

- ◆ MOA Parks & Rec developing 2nd phase of Chugach Foothills Connector
- ◆ Separated, multi-use pathway for non-motorized users
- ◆ Regal Mountain Drive to Campbell Airstrip Road
- ◆ Funding from FHWA through AMATS
- ◆ Project will go through both NEPA & MOA Trails Review
- ◆ Pathway will include a spur to Benny Benson Secondary School





Scope of Work

- ◆ Vegetation clearing & grubbing
- ◆ Construction of a multi-use, gravel-surface pathway
- ◆ Installation of a short section of boardwalk and other amenities
- ◆ Drainage improvements

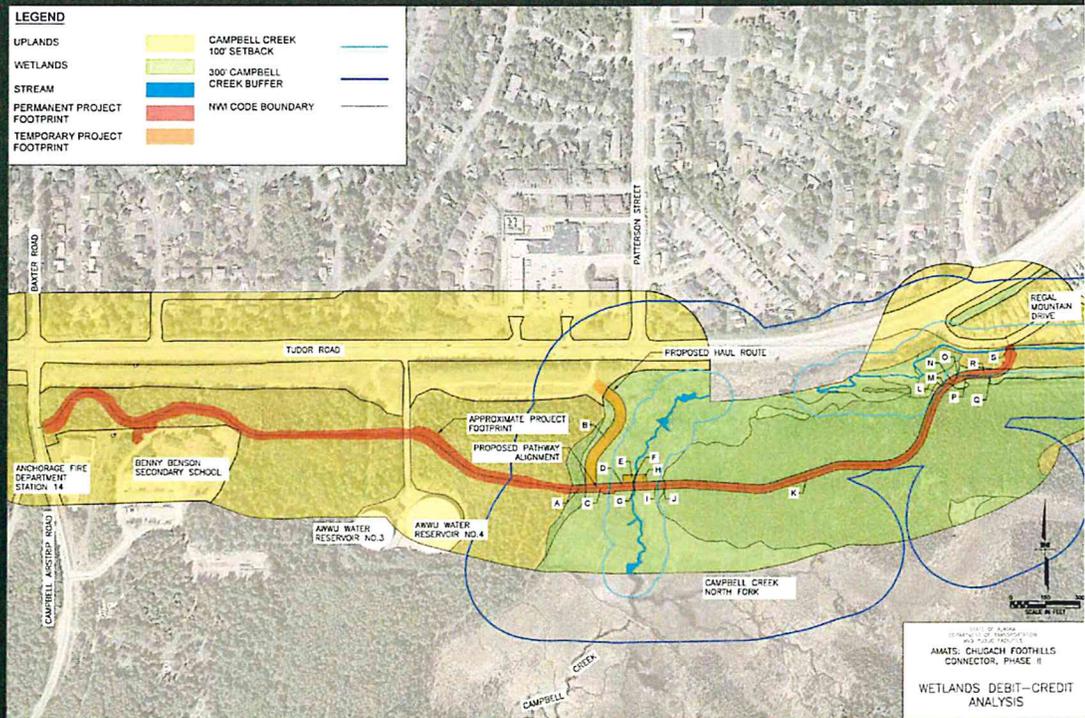


Work Completed

April 4, 2019	Presentation at Scenic Foothills Community Council Meeting
September 25, 2019	ASD Meeting
October 9, 2019	ASD Meeting on Site at Benny Benson School
January 22, 2020	USACE pre-application meeting
January 23, 2020	Anchorage Transportation Fair
November 18, 2020	Anchorage Transportation Fair (Virtual)
December 30, 2020	MOA Trail Review pre-application meeting
February 4, 2021	Virtual Open House at Scenic Foothills Community Council

Project Constraints

- ◆ Wetlands
- ◆ Drainage
- ◆ Soils
- ◆ Utilities
- ◆ Termini
- ◆ Accessibility
- ◆ Future development
- ◆ Existing trails
- ◆ Cost



- LEGEND**
- WETLANDS
 - UPLANDS
 - WETLANDS
 - PATHWAY ALTERNATIVES

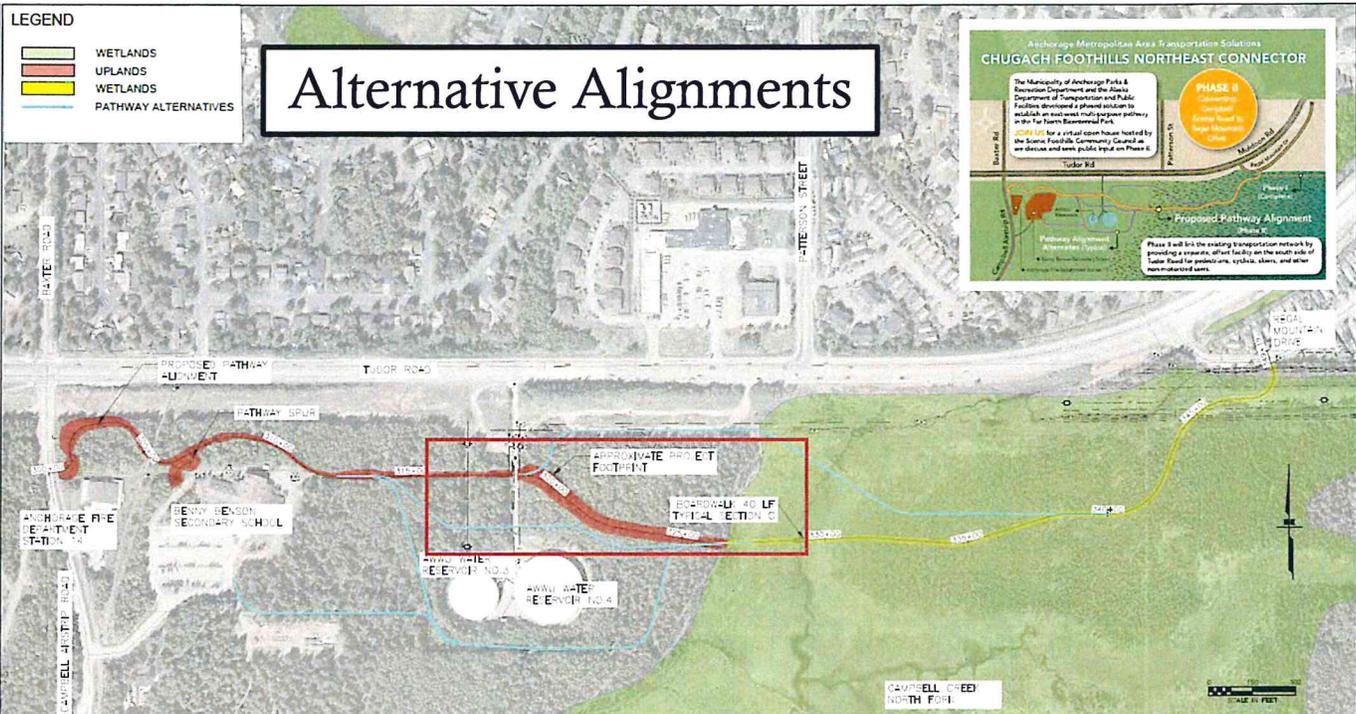
Alternative Alignments

Chugach Foothills Northeast Connector

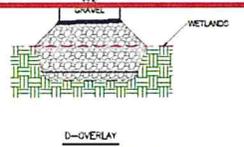
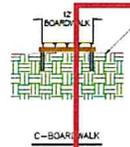
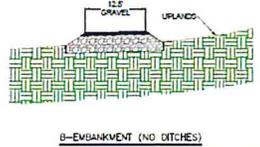
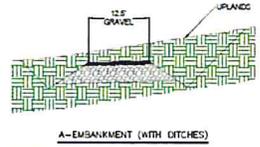
The Municipality of Anchorage Parks & Recreation Department and the Alaska Department of Transportation and Public Facilities developed a phased solution to establish an east-west multi-purpose pathway in the North Environmental Park.

PHASE II
 Connecting
 Anchorage to
 Eagle River
 via
 Chugach Foothills

Phase II will link the existing transportation network by providing a separate, off-street facility on the south side of Lake Hood for pedestrians, cyclists, strollers, and other non-motorized users.



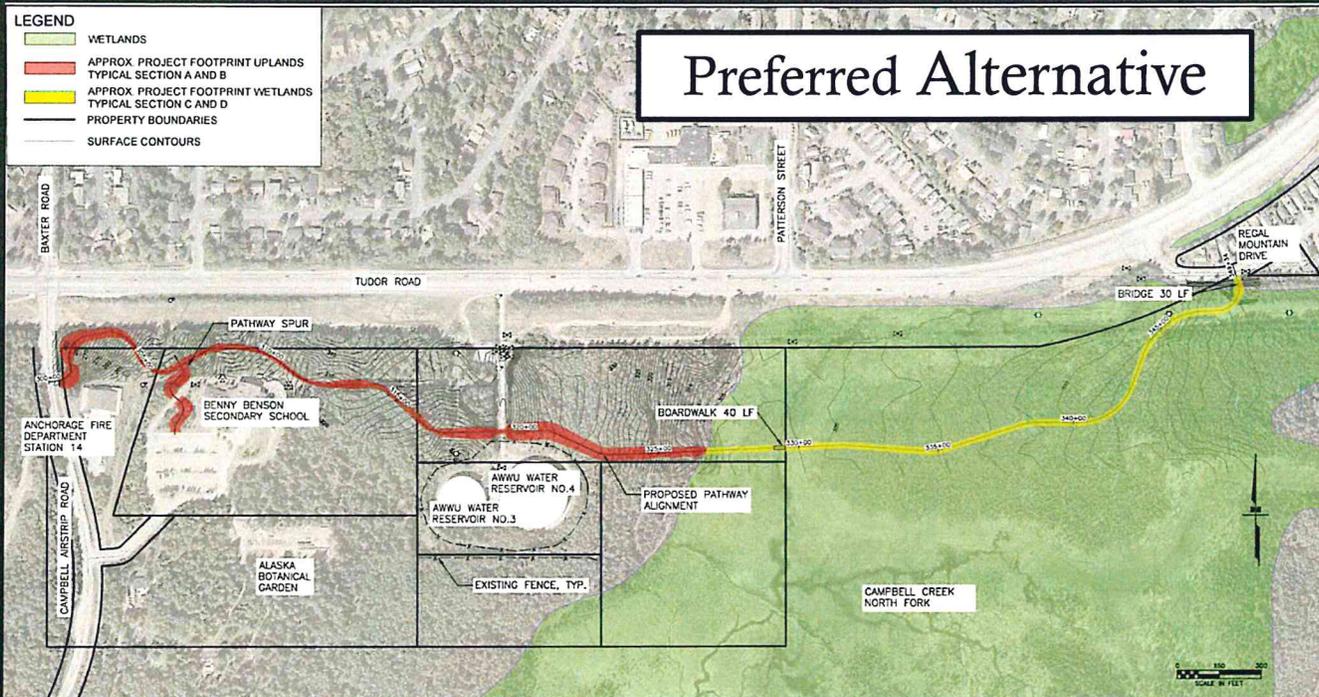
Typical Sections



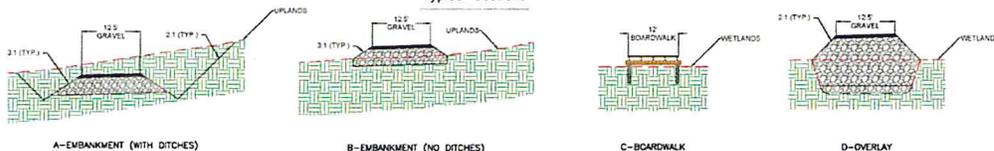
SITE PLAN
 1/4" = 10' HORIZONTAL
 1/4" = 10' VERTICAL
 ANCHORAGE, ALASKA
PROJECT OVERVIEW
 JANUARY 2021

Preferred Alternative

- LEGEND**
- WETLANDS
 - APPROX. PROJECT FOOTPRINT UPLANDS
TYPICAL SECTION A AND B
 - APPROX. PROJECT FOOTPRINT WETLANDS
TYPICAL SECTION C AND D
 - PROPERTY BOUNDARIES
 - SURFACE CONTOURS

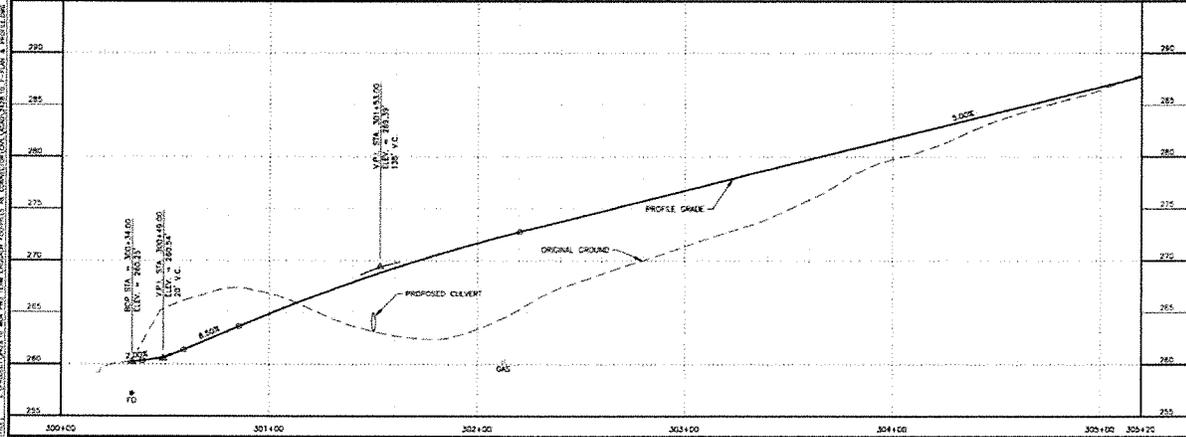
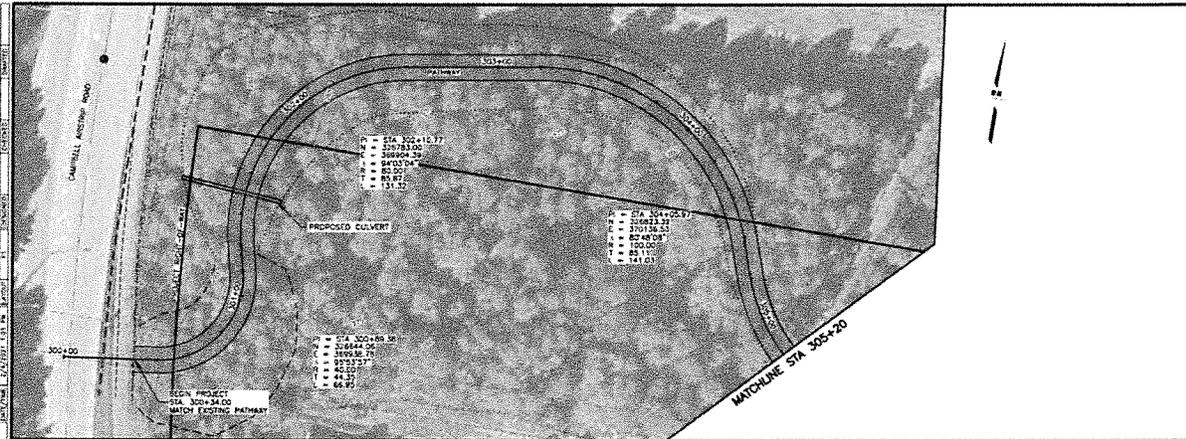


Typical Sections



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC SAFETY
AMATS: CHUGACH FOOTHILLS
CONNECTOR, PHASE II

OVERVIEW
FEBRUARY 2021



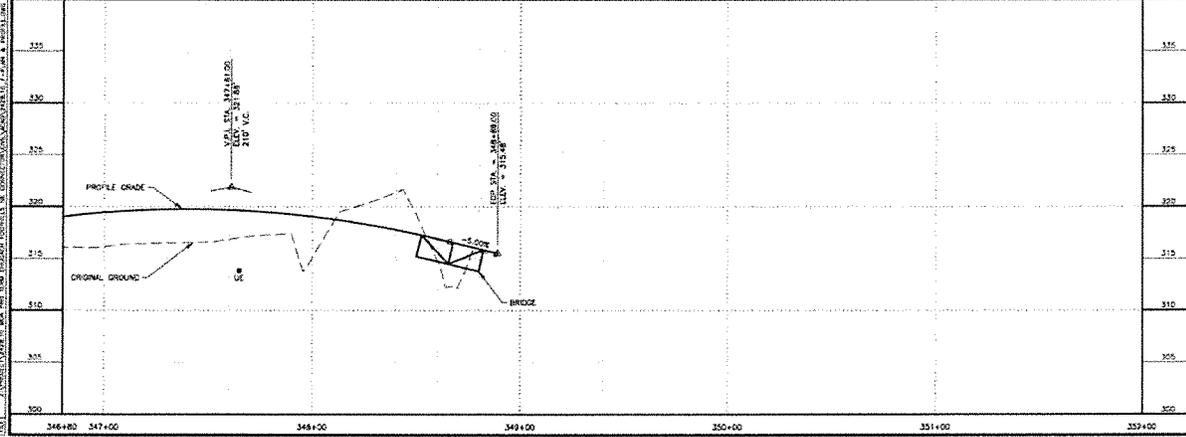
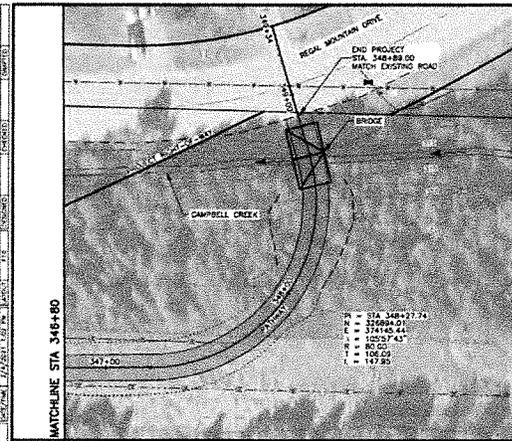
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ALASKA	2021
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TBD/CFHWY00387	
NO.	REVISION
NO.	REVISION
NO.	REVISION

REGAL MOUNTAIN DRIVE

TUOR RD
MOA ACCESS ROAD
SPUR
BOP
CAMPBELL ARRESTRIP RD

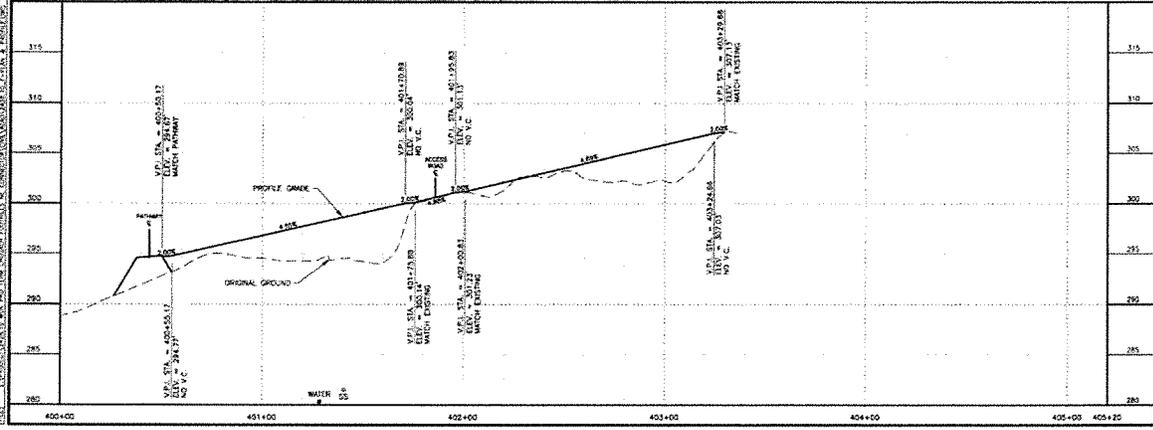
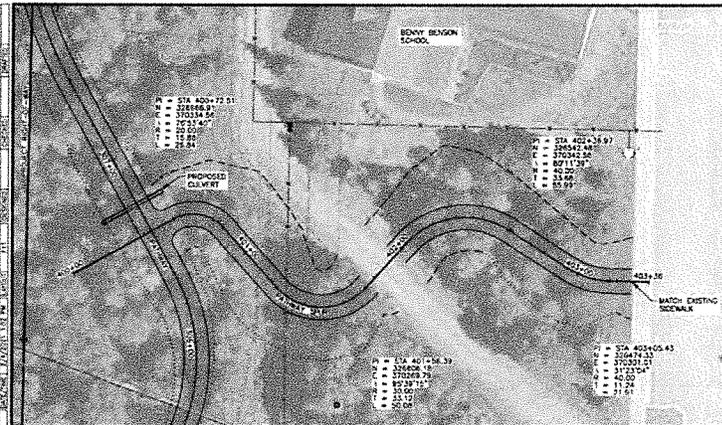
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II
PLAN & PROFILE
BOP TO STA 305+20

DATE: FEB 2021



SHEET NO.	TOTAL SHEETS
F10	F11
DATE	YEAR
ALASKA	2021
PROJECT DESIGNATION	
TBD/CFHWY00387	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC INFRASTRUCTURE
AMATEUR CHIEF ENGINEER
FOOTHILLS CONNECTOR
PHASE #
PLAN & PROFILE
STA. 346+80 TO
EOP



SHEET NO.	F11	TOTAL SHEETS	F11
STATE	ALASKA	YEAR	2021
PROJECT DESIGNATION			
TBD/CFHWY00387			
NO.	REVISION		
DATE	REVISION		
NO.	REVISION		
DATE	REVISION		
NO.	REVISION		
DATE	REVISION		

REGAL MOUNTAIN DRIVE

EOP

TUDOR RD

MCA ACCESS ROAD

SPUR

BOP

CAMPBELL AIRSTRIP RD

PIV FEB 2021

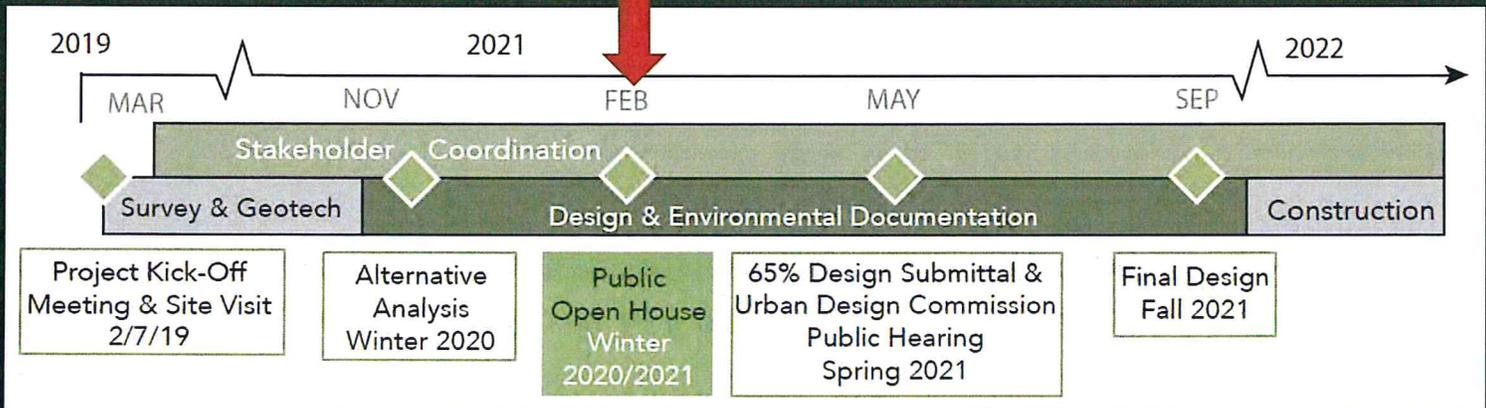
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

AMATS: CHAGACH
 FOOTHILLS CONNECTOR
 PHASE 1

PLAN & PROFILE
 PATHWAY SPUR

Milestones

WE ARE HERE



Questions?
Comments?

Contact

Taylor Keegan
Project Manager
MOA Parks & Recreation
taylor.keegan@anchorageak.gov



Van Le, AICP
Planning & Public Involvement Lead
R&M Consultants, Inc.
vl@rmconsult.com



PARKS & RECREATION DEPARTMENT
AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II
PUBLIC MEETING SUMMARY

Scenic Foothills Community Council (SFCC) Meeting

February 4, 2021

Virtual Via Zoom Link through SFCC

OUTREACH:

- Postcard mailer to residents, property owners, tenants, organizations within 600 ft of the project area
- Email notice to the Community Council and through the Federation of Community Councils

ATTENDEES:

- Taylor Keegan - MOA Parks and Recreation Department Project Manager
- Marc Frutiger, PE/PTOE – R&M Consultants, Inc. Project Manager
- Van Le, AICP - R&M Consultants, Inc. Planning/PI Lead
- Noah King, PE - DOT&PF Project Engineer
- 48 participants signed into the Virtual Zoom Meeting at the start of the presentation

ATTACHMENTS:

- PowerPoint Presentation
- Postcard Mailer Notice
- Mailing Boundary Figure

SUMMARY

To keep the community informed and to meet the MOA's Title 21 Public Meeting requirement for a Trail Review, R&M Consultants, Inc. (R&M), the Municipality of Anchorage (MOA) Parks and Recreation Department (PRD), along with the Alaska Department of Transportation and Public Facilities (DOT&PF) attended the February 4, 2021 Scenic Foothills Community Council (SFCC) Meeting. Prior to this meeting, postcard mailers advertising the meeting were sent out to 584 addresses of record within 600 feet of the project address (500 feet is the minimum required by Title 21 Land Use Code) with 21 days of notice.

In the lead up to the February 4, 2021 public meeting, R&M coordinated with SFCC President Karen Bronga to confirm the project's placement on the agenda as well attend an agency review meeting that included SFCC representatives to provide a project overview and to share preliminary project information, including figures.

PROJECT OVERVIEW & BACKGROUND:

The Anchorage Parks and Recreation Department (PRD) is working to develop the second phase of the Chugach Foothills Connector. The proposed nonmotorized route is located in the Far North Bicentennial Park and runs roughly parallel to Tudor Road on the south side, near the Muldoon Road curve. PRD has developed a phased approach to establish this multi-purpose pathway. Phase I was completed in 2015 using a Challenge Grant, connecting Klutina Drive to Regal Mountain Drive. Phase II will connect Regal Mountain Drive to the pathway along Campbell Airstrip Road as well as a spur trail to Benny Benson Secondary School.

Marc Frutiger provided an overview of the project scope, objectives and summarized what work has been completed since UAA students started the project as a Seawolf Engineering project through the conceptual alternatives phase. Project constraints including wetlands, drainage, soils, logical termini, utilities, accessibility, future development, existing trails (formal and informal) as well as cost. Marc provide an overview of the numerous alternative alignments and typical sections that were evaluated concluding with the preferred alignment which has been selected to balance access, environmental impacts, utility conflicts, cost as well as the other constraints considered. The preferred alternative may be further refined as a result of ongoing agency and land owner coordination. A schedule of anticipated milestones was provided including a submittal to the Urban Design Commission for trail review (spring 2021), final design by the end of 2021 and construction start in 2022 if all permits and funding is allocated. [See Attachment for Presentation.](#)

DISCUSSION

FUNDING

Taylor Keegan discussed the funding, which is being provided by the Federal Highway Administration's (FHWA) Transportation Alternatives Program (TAP) through Anchorage Metropolitan Area Transportation Solutions (AMATS). The project needs approximately \$4.4 Million for permitting and construction. The local match of \$600,000 that will be on the 2021 Municipal Bonds in April. The cost to mitigate impacts to wetlands is yet to be determined.

SIGNAGE AND DOG USE

Taylor Keegan mentioned that due to dog use now and future use after the pathway is built, signage regarding dog waste as well as trash receptacles will be provided. The location of the trash receptacles will need to be accessible by PRD maintenance crews who need to drive their vehicles to collect the refuse.

PARKING

The project team has been coordinating with the Anchorage School District and Benny Benson School staff to provide a secondary access to the proposed pathway through a spur that connects to the school and the school's parking lot. The spur provides a connection for students at the school who take the bus from Tudor Road as well as providing a more gradual access to the main pathway. Based on conversations with the principal, the school's parking lot can accommodate additional pathway user parking.

FUTURE PUBLIC OPPORTUNITY TO WEIGH IN

The project will be going to the Parks and Recreation Commission on February 11, 2021. The project team can also return to SFCC to provide another update as the project progresses. Additionally, this project will go through Trails Review under the MOA's Streets and Trails Review [Anchorage Municipal Code 21.03.190(C) Trail review]. This is a public hearing before the MOA's Urban Design Commission. Copies of the 65% design plans will be routed to the SFCC for review and comment. The public has an opportunity to also testify on the project before the UDC once the public hearing date has been set.

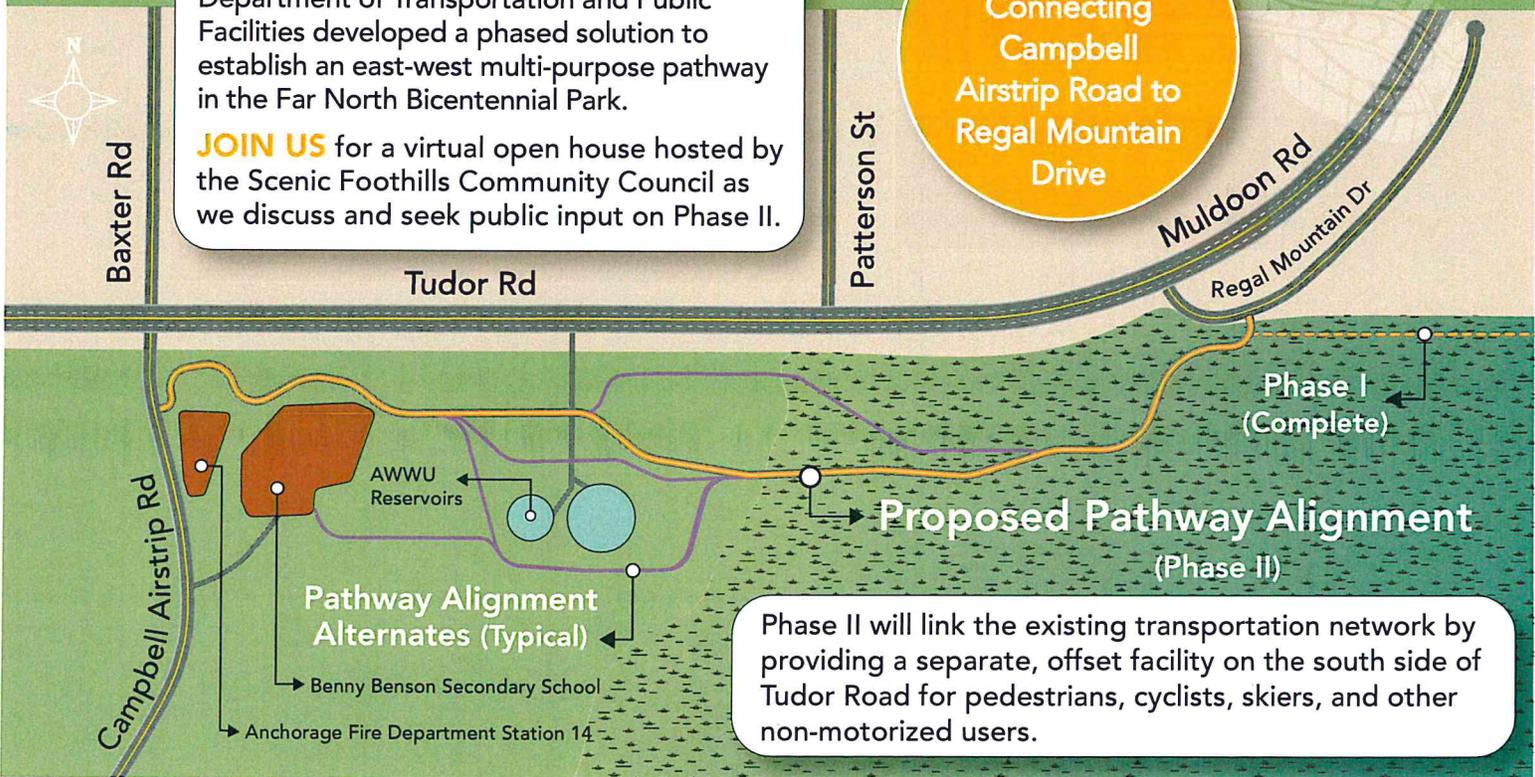
Anchorage Metropolitan Area Transportation Solutions

CHUGACH FOOTHILLS NORTHEAST CONNECTOR

The Municipality of Anchorage Parks & Recreation Department and the Alaska Department of Transportation and Public Facilities developed a phased solution to establish an east-west multi-purpose pathway in the Far North Bicentennial Park.

JOIN US for a virtual open house hosted by the Scenic Foothills Community Council as we discuss and seek public input on Phase II.

PHASE II
Connecting
Campbell
Airstrip Road to
Regal Mountain
Drive



Phase II will link the existing transportation network by providing a separate, offset facility on the south side of Tudor Road for pedestrians, cyclists, skiers, and other non-motorized users.

WHEN

Thursday, February 4th, 2021 at 7:00 PM

ZOOM INFO

To join the VIRTUAL meeting, please contact the SFCC at sfccakpresident@gmail.com and request the Zoom meeting invitation, prior to February 4th.

You may also visit the SFCC website at:

<http://communitycouncils.org/servlet/content/31.html>

R&M Consultants, Inc.
9101 Vanguard Dr.
Anchorage, AK 99507

First-Class Mail
Pre-sorted
U.S. Postage Paid
Anchorage, AK
Permit No. 845

CONTACT

Municipality of Anchorage Parks & Recreation

Taylor Keegan, Project Manager

taylor.keegan@anchorageak.gov • 343-4518

R&M Consultants, Inc.

Van Le, AICP Planning & Public Involvement

vl@rmconsult.com • 646-9659

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dot.alaska.gov/tvi_statement.shtml. To file a complaint go to: dot.alaska.gov/cvlrts/titlevi.shtml

The DOT&PF complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to participate in this public meeting should contact Van Le, AICP at 907-646-9659 and TDD (711). Requests should be made at least 10 days before the accommodation is needed so we can make any necessary arrangements.

Property Information MOAGIS Maps and Data Property Appraisal Department Search By Form

Search by Parcel Number

600ft
-149.731 61.184 Degrees

Municipality of Anchorage, Matanuska-Susitna Borough GIS, Esri, HERE, Garmin, US

Scenic Foothills Community Council Meeting
4/4/19 6:30-8pm
Wayland 7801 E 32nd A/A 99504

- A. 6:30 call to order
- B. 6:30 2 minute introductions and share out with persons sitting next to you
- C. 6:32 approval of current agenda and previous minutes
- D. 6:34 **Presentations** (5-10 minutes each)
 - a. 6:34-6:44 Scenic Foothills history - Connor Scher
 - b. 6:44-6:54 JBER access restrictions - TBA
 - c. 6:54-7:04 NE trail connector - R&M Engineering
- E. Exec board reports (2 minutes each)
 - a. President- Dawn Groth
 - i. PTAB report
 - ii. APF/Best Beginnings Support- little free libraries
 - b. Vice President- Karen Bronga
 - i. Trail update
 - ii. Spring Clean Up- April 27th
 - iii. APD
 - c. Treasurer- Kent Williams
 - i. Treasurer report
 - ii. CIP
 - d. FCC Delegate- Daniel Clift
 - i. Elections coming up in May, interested persons contact Daniel
 - ii. Title 21
- F. MOA/State reports (5 minutes each)
 - e. School Board Rep- Elisa Snelling
 - f. Assembly- Forrest Dunbar and/or Pete Peterson
 - g. State Rep- Lance Pruitt
 - h. Topics added from community
 - i. Open
 - ii. Open

Minutes Scenic Foothills Community Council
Thursday, April 4, 2019

Called to order 6:30

2 min. share – What makes a perfect neighborhood

Minutes seconded and approved as submitted.

Presentations:

Connor Scher- History of the neighborhood

Denaina were the first people. They used drainages as trails much as we do today. Shared map of early homesteads in the area. The first homesteader was George Schwartz. He had 160 acres. Arnold Muldoon came next and preserved part of his homestead as a park. Some homesteaders helped create the original Bulldog trail as a means of accessing their land.

Marc Frutiger and Taylor Keegan, R&M Consulting- Phase 2 of Northeast Connector

Phase 1 completed in 2015, through a Challenge Grant, with YEP program labor. Students from Seawolf Engineering designed phase 2 as a senior project. Partial funding was secured through a TAP grant. 2017/18 project was on hold while DOT and Muni worked out logistics. 2019 R&M got involved. Since the project is federally funded it has to meet environmental standards (with much permitting) and has to be ADA compatible. So far, a topographic map has been created and geotechnical excavation. The trail, from Regal Mt. Drive to Campbell airstrip road will be for everyone (non-motorized) with some board walk, bridges. Tentatively planning open house 8/29/19 to discuss plan. Looking to start work winter of 2020 and summer 2021.

Angela Earle, JBER Public Affairs- JBER News

Boniface Gate inbound will be close in May. Outbound closed June. July/August and September the Muldoon gate will be closed both ways. Post road will be closed in October.

Bridgitte Brantley, JBER Public Affairs Officer- iSportsman Access JBER

They are aware of concerns with bridge over North Fork Campbell creek being closed. Bridge removal is under consideration due to the increased interference in training exercise by people trespassing in the area. Discussion as to whether we could climb over bridge if area 429 is open and we are signed in. We were told “no”. Discussed new signage on Dome trail and the need for more. As a community, we will assist in identifying areas that a sign is needed, try to curb vandalism, and educate neighbors and users groups as to the sign-in process.

Executive Board Reports:

President, Dawn Groth-

Public Transit Advisory Board- Looking at bus route ridership. Our areas bus is route 25. Compared to other areas ours has very good connections and comes every 15 min.

- **Free Little Public Library-** A Challenge Grant was written to create Free Little Libraries that would be installed at parks. Discussion as to whether or not our area would like one. Some worry about vandalism, others think there are places near houses that one might be installed. Michelle and Dawn will meet to discuss.
- **SFCC Board Elections in May-** Let us know if you are interested in being part of SFCC Board.
- **Quarterly Meetings next year-** Proposed months of meeting would be Sept., Nov., Feb., May. Executive board will make final schedule.

FCC Delegate, Daniel Clift

Latest FCC meeting - lots of focus on Title 21 proposed changes. Looking at cleaning it up and making more user friendly. Also making a decision tree for design concepts. State budget reductions will cause property taxes to go up.

Treasurer, Kent Williams

Currently have \$320, held at Northern Skies bank

CIP List- we will be compiling a list of Capital Improvement Projects we think are important for our area. A survey will be sent out to rank possible projects. Please take the time to do this.

Vice President, Karen Bronga

Spring Cleanup- April 27th. We have a team formed for our community council. You can get bags from 3-5 at Chugach Foothills Park or 2 bags apiece from Fred Meyers. Full bags can be left near the parking lot at Chugach Foothills Park.

APD- Have formed new “Beats” for police officers. They will be going to the same areas every day. These beats have been formed based on community council zones.

Legislative Report: Lance Pruitt via call in:

Budget will be presented next week. Amendments will follow. Looking at a reduction of 53 million from Medicaid and elimination of school bond debt reimbursement. Have not dealt with reductions in DOT or University yet. Judiciary Chair and Rules Chair not looking at crime abatement legislation at this time. Question about oil tax credit reduction. Not talking about making changes this year.

Municipality of Anchorage Report: Pete Peterson /Forrest Dunbar- Unable to attend

Anchorage School Board: Elise Snelling- Not in attendance

Community Topics-

Arthur Keyes- Introduced Anchorage Midtown Farmers Market. Touted the benefits of fresh grown produce and the community spirit markets create. Our area also has a market. To get more info. <https://muldoonfarmersmarket.org/>

Access to council info if not on facebook is difficult- New member described trying to find the website and getting only an old SFCC site showing up. This will be addressed.

Meeting adjourned 8:10



Basher Community Council Presentation

AMATS: Chugach
Foothills Connector,
Phase II

March 11, 2021
@ 6:30 PM via ZOOM



Project Team

Municipality of Anchorage Parks & Recreation

- ▣ Taylor Keegan, Project Manager



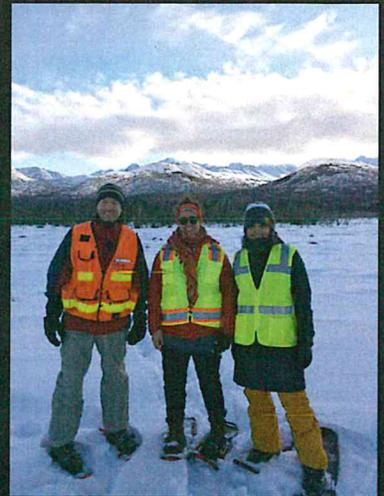
DOT&PF

- ▣ Alex Read, P.E., Project Manager
- ▣ Noah King, P.E., Consultant Coordinator



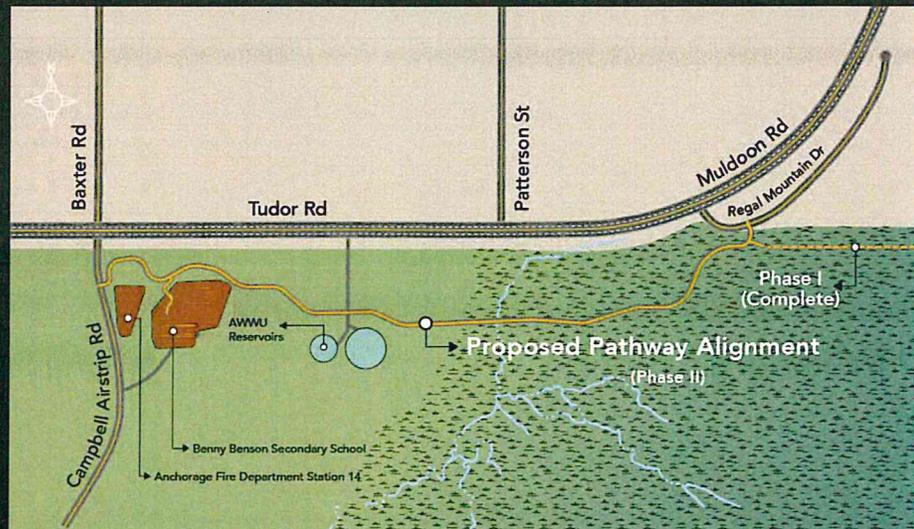
R&M Consultants, Inc.

- ▣ Marc Frutiger, P.E., PTOE, Project Manager
- ▣ Van Le, AICP, Planning & Public Involvement Lead



Project Overview

- ◆ MOA Parks & Rec developing 2nd phase of Chugach Foothills Connector
- ◆ Separated, multi-use pathway for non-motorized users
- ◆ Regal Mountain Drive to Campbell Airstrip Road
- ◆ Funding from FHWA through AMATS
- ◆ Project will go through both NEPA & MOA Trails Review
- ◆ Pathway will include two spurs:
 - ◆ Benny Benson Secondary School
 - ◆ Existing Phase I Trail





Scope of Work

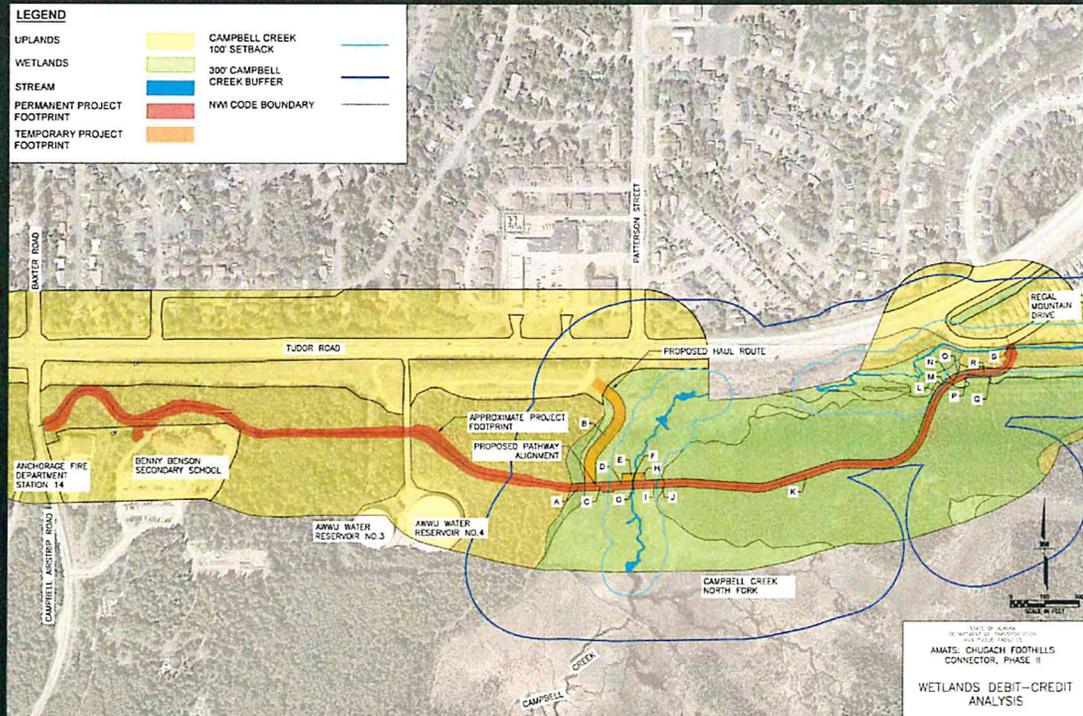
- ◆ Vegetation clearing & grubbing
- ◆ Construction of a multi-use, gravel-surface pathway
- ◆ Installation of two short sections of boardwalk with railing
- ◆ Other amenities
- ◆ Drainage improvements

Work Completed

September 25, 2019	ASD Meeting
October 9, 2019	ASD Meeting on Site at Benny Benson School
January 22, 2020	USACE pre-application meeting
January 23, 2020	Anchorage Transportation Fair
November 18, 2020	Anchorage Transportation Fair (Virtual)
December 30, 2020	MOA Trail Review pre-application meeting
February 4, 2021	Virtual Open House
February 26, 2021	Plans in Hand Design Submitted

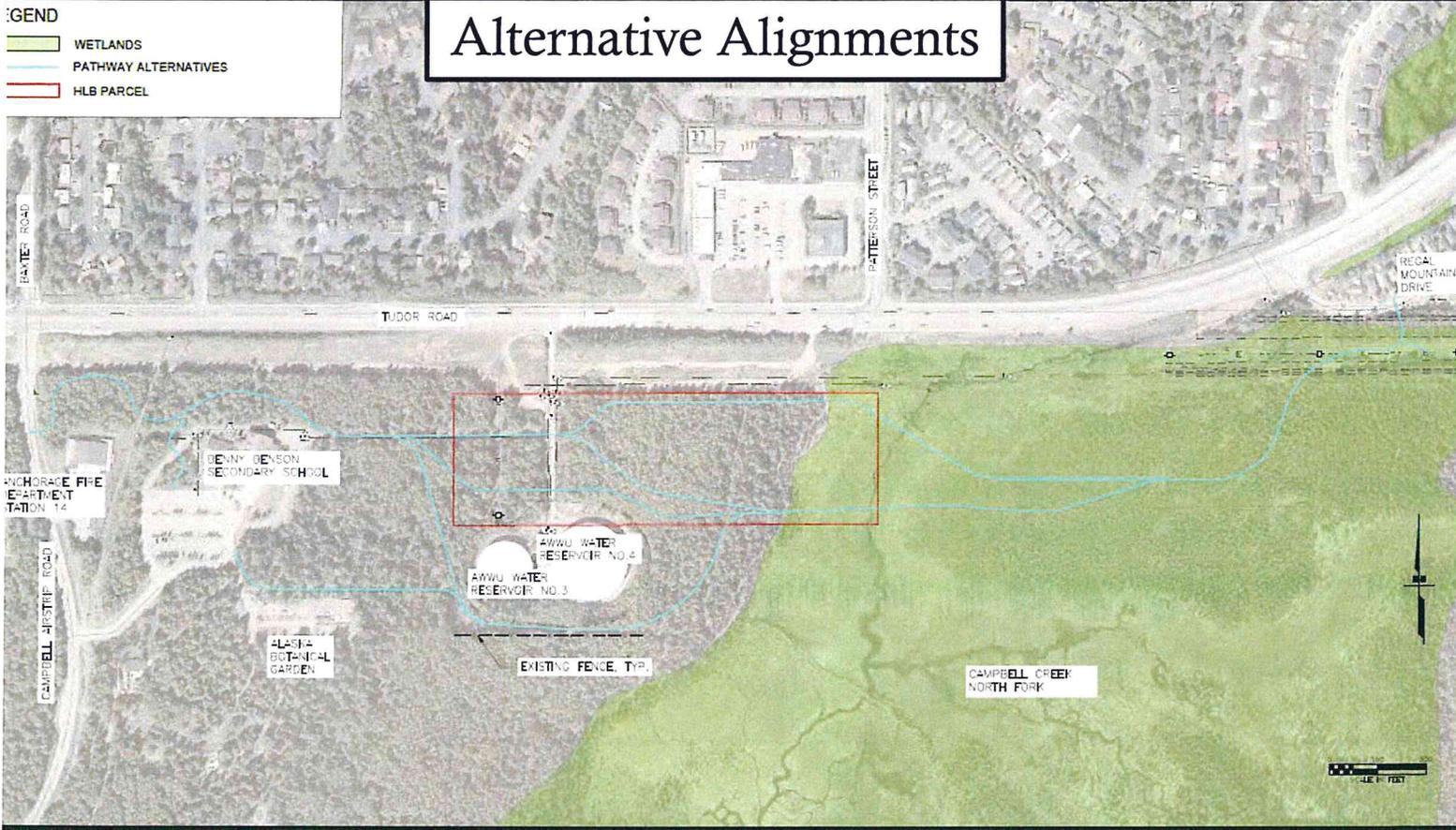
Project Constraints

- ◆ Wetlands
- ◆ Drainage
- ◆ Soils
- ◆ Utilities
- ◆ Termini
- ◆ Accessibility
- ◆ Future development
- ◆ Existing trails
- ◆ Cost

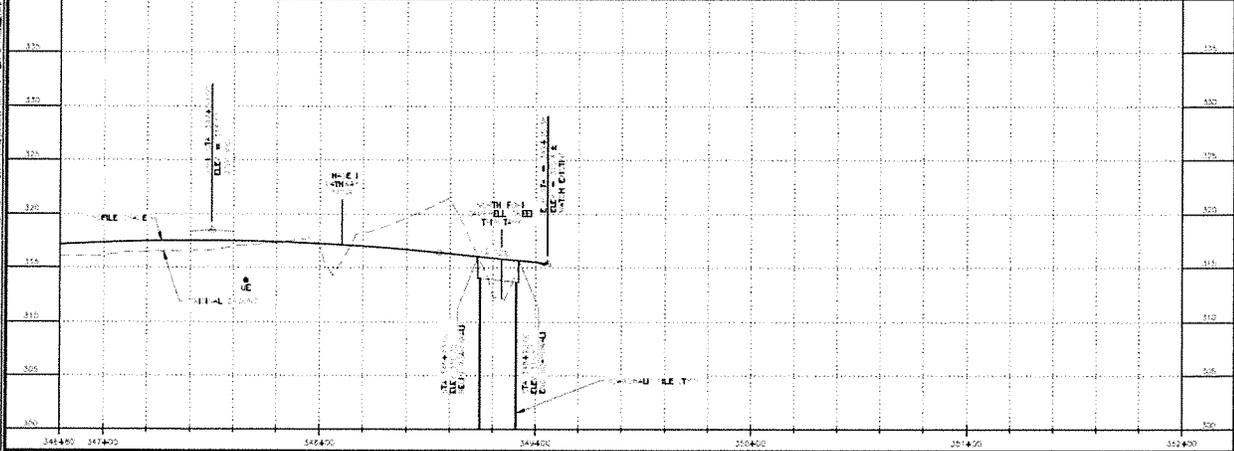
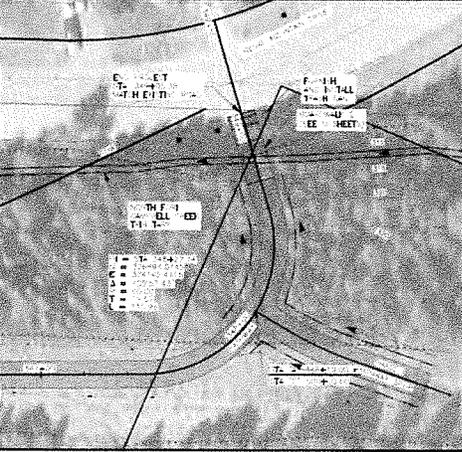


Alternative Alignments

- LEGEND**
- WETLANDS
 - PATHWAY ALTERNATIVES
 - HLB PARCEL



MATCHLINE STA 346+80



NO.	DATE	BY	REVISION

PROJECT LOCATION
TA18004
CPHW00387

REGAL MOUNTAIN DRIVE
TUDOR RD
ARWU ACCESS ROAD
SPUR
CAMPBELL AIRSTRIP
EOP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC SAFETY
AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II
PLAN & PROFILE
ISSUED TO: EOP

DATE	FOR
F11	F11
STATE	YEAR
ALASKA	2021
PROJECT NUMBER	
TA18004	
CFHWY00387	
NO.	CRAN.
DATE	CRAN.
NO.	REVEN.
DATE	REVEN.
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DATE	REVEN.

REGAL MOUNTAIN DRIVE
EOP

TUDOR RD

AWLU ACCESS ROAD

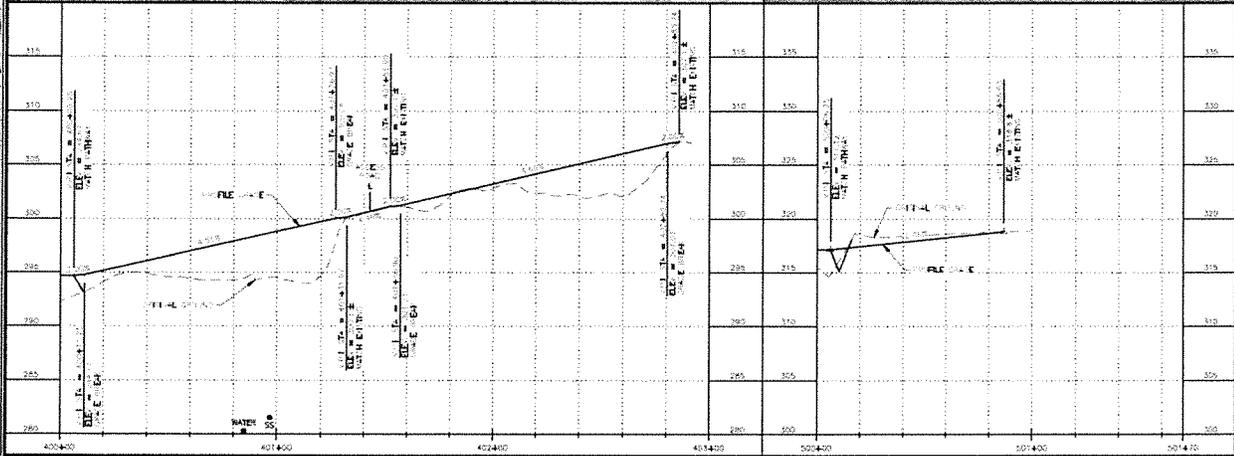
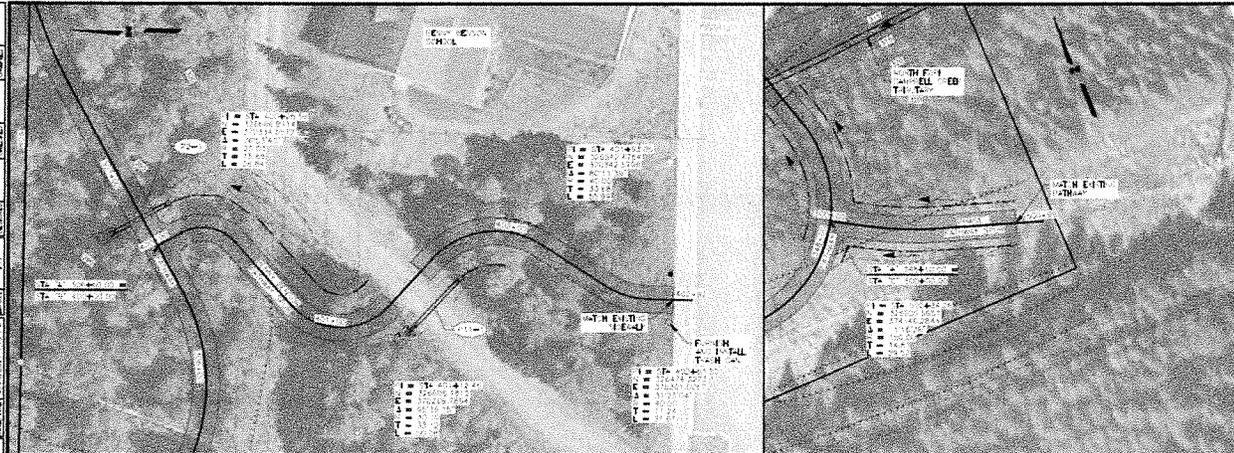
SPUR

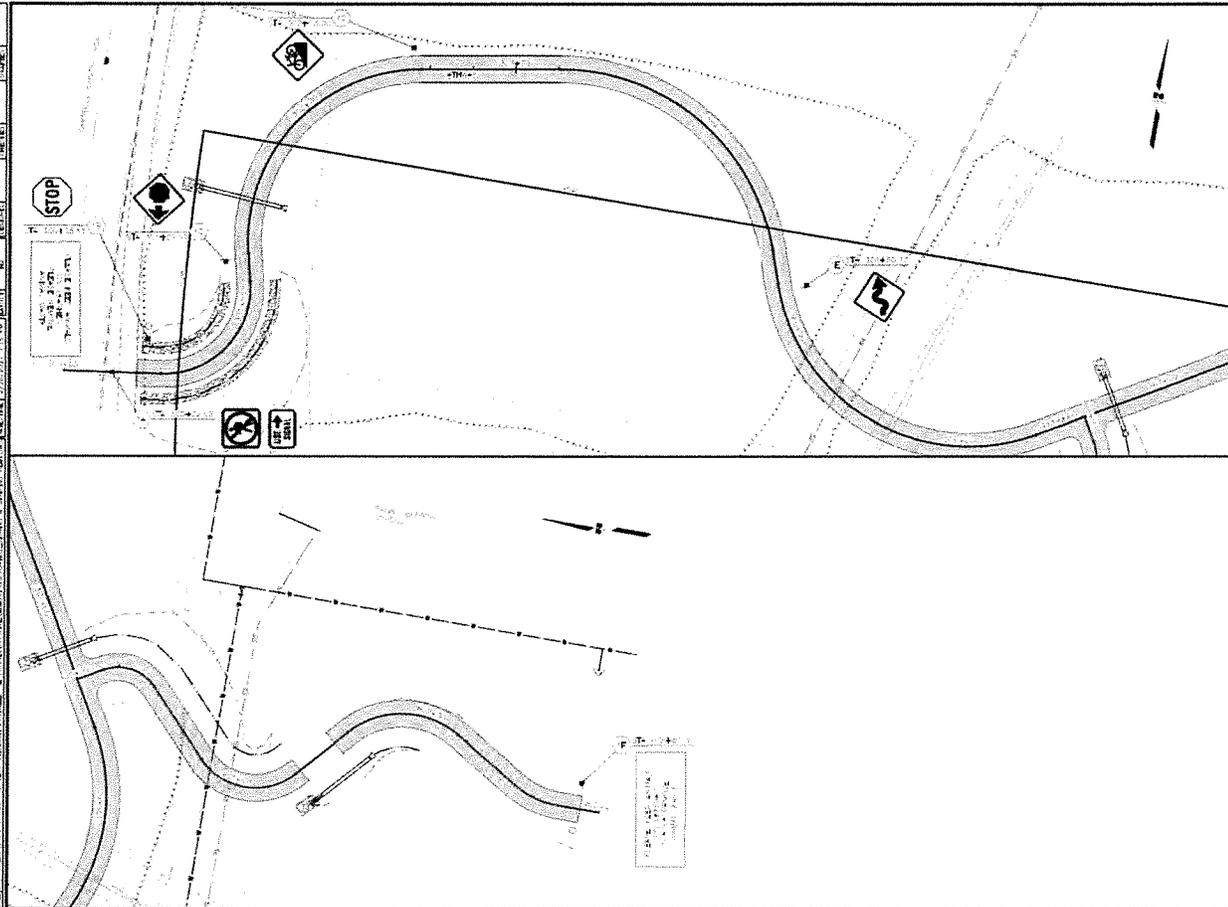
SOP

CAMPBELL AIRSTRIP RD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC SAFETY
AMATS: CHUGACH
FOOTHILLS CONNECTOR,
PHASE II

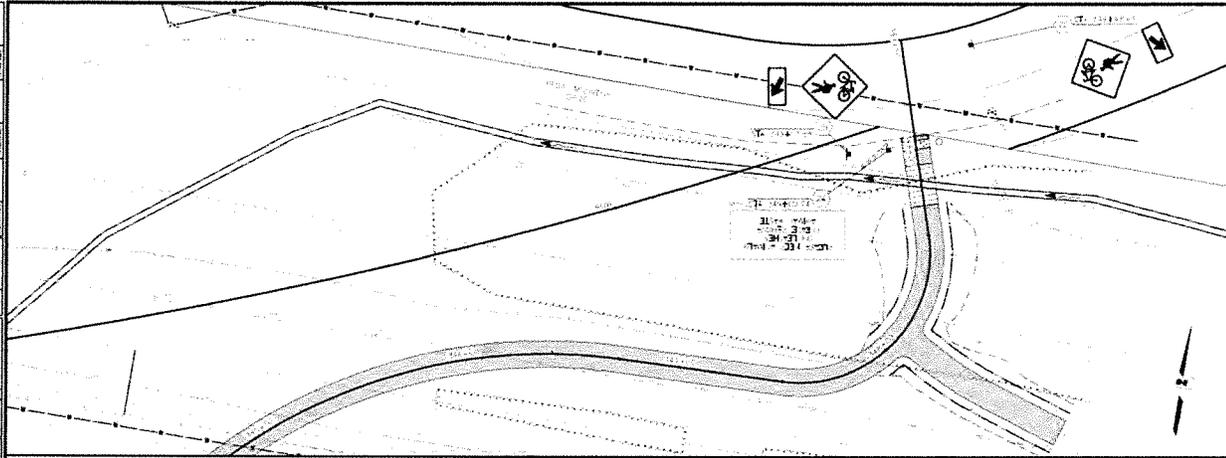
PLAN & PROFILE
PATHWAY SURVEY



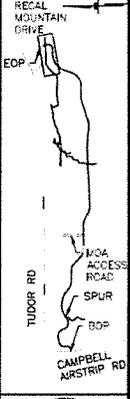


NO.	DATE	BY	REVISION
H2	H4		
ALASKA	2021		
PROJECT INFORMATION			
TA18004			
CFHWY00387			
RECAL MOUNTAIN DRIVE			
EOP			
TUDDER RD			
MOA ACCESS ROAD			
SPUR			
CAMPBELL AIRSTRIP RD			

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC SAFETY
 AMATEUR CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II
 SAVING PLAN



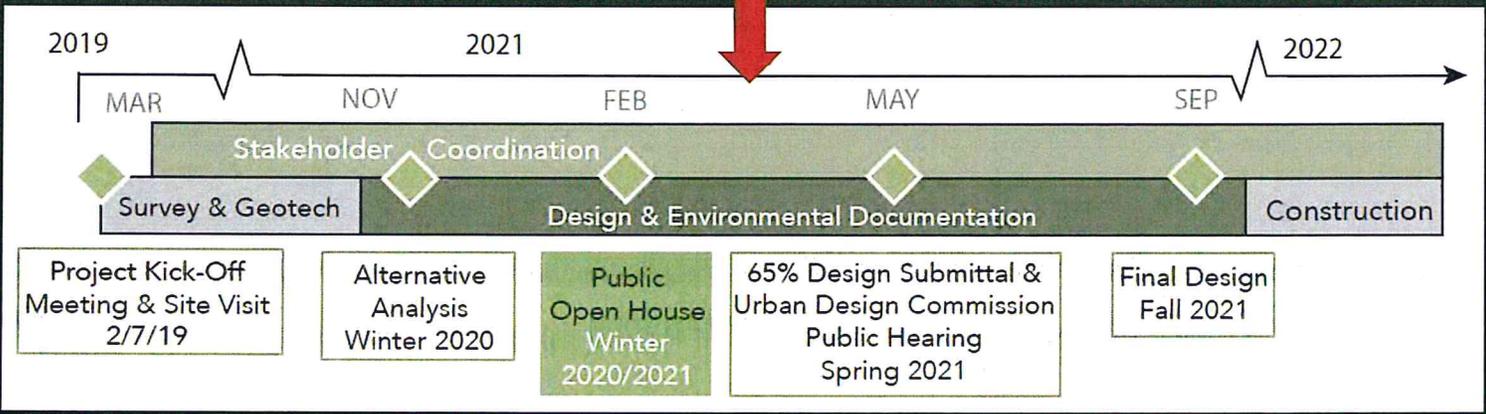
NO.	DATE
H3	H4
STATE	YEAR
ALASKA	2021
PROJECT NUMBER	
TA18004	
CPHWY00387	
NO.	DATE



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC SAFETY
 AMATS: CHUGACH
 FOOTHILLS CONNECTOR,
 PHASE II
 SIGNING PLAN

Milestones

WE ARE HERE



Questions?
Comments?

Contact

Taylor Keegan
Project Manager
MOA Parks & Recreation
taylor.keegan@anchorageak.gov



Van Le, AICP
Planning & Public Involvement Lead
R&M Consultants, Inc.
vl@rmconsult.com



PARKS & RECREATION DEPARTMENT
AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II
MEETING SUMMARY

Basher Community Council (BCC) Meeting

March 11, 2021

Virtual Via Zoom Link through BCC

OUTREACH:

- Email notice to the Community Council and through the Federation of Community Councils

ATTENDEES:

- Taylor Keegan - MOA Parks and Recreation Department Project Manager
- Marc Frutiger, PE/PTOE – R&M Consultants, Inc. Project Manager
- Van Le, AICP - R&M Consultants, Inc. Planning/PI Lead
- Noah King, PE - DOT&PF Project Engineer
- 15 participants signed into the Virtual Zoom Meeting at the start of the presentation

ATTACHMENTS:

- PowerPoint Presentation

SUMMARY

To keep the community informed and to meet the MOA's Title 21 Public Meeting requirement for a Trail Review, R&M Consultants, Inc. (R&M), the Municipality of Anchorage (MOA) Parks and Recreation Department (PRD), along with the Alaska Department of Transportation and Public Facilities (DOT&PF) attended the March 11, 2021 Basher Community Council (BCC) Meeting.

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DISCUSSION

FUNDING

Taylor Keegan discussed the funding, which is being provided by the Federal Highway Administration's (FHWA) Transportation Alternatives Program (TAP) through Anchorage Metropolitan Area Transportation Solutions (AMATS). The project needs approximately \$4.4 Million for permitting and construction. The local match of \$600,000 that will be on the 2021 Municipal Bonds in April. The cost to mitigate impacts to wetlands is yet to be determined.

OPERATIONS AND MAINTENANCE COSTS

The Operations and Maintenance (O&M) costs approved by voters as part of the bonds is permanent and there is no time limitation on it. O&M does become part of the budget and therefore subject to changes/reductions just like the rest of the budget. We are able to use O&M funds until it is broadly cut from our budget. Because of this, the Parks and Recreation Department have found success through bonding for larger repairs, like we have done incrementally for the major greenbelts (and associated bridges) in the city to provide larger upgrades associated with aging and maintenance.

WILDLIFE INTERACTIONS

The project is providing considerations to minimize wildlife impacts and human/wildlife interactions through avoiding the existing mushing trails in Far North Bicentennial Park. The proposed trail alignment also deliberately avoids narrow corridors where it will be more difficult to bypass interactions with wildlife. Also, a minimum of 10 feet of vegetation clearing allows for visibility along the trail corridor to avoid wildlife encounters. The proposed trail width is 12.5 feet with 8.5 feet of that as useable trail and 4 feet of shoulders.

BOTANICAL GARDENS COORDINATION

The Parks and Recreation Department has been coordinating with Alaska Botanical Garden directly as well as consulting with their Master Plan to ensure compatibility and to avoid any potential route conflicts with existing uses.

SIGNAGE

Signage will be posted to educate and inform users of this non-motorized multi-use trail as well as where the trail will connect to the pathway along Campbell Airstrip Road.

TRAIL CONNECTION WITH CAMPBELL AIRSTRIP ROAD

The grade and elevation are two of the main technical challenges where the proposed trail alignment approaches Campbell Airstrip Road. The proposed approach at this location is a gradual 100 feet to give pedestrians and bicyclists time to reduce speed prior to connecting to the paved pathway along the road. Several factors including grade and underground utilities, which would need to be relocated, if the trail alignment needs to move closer to the Tudor/Campbell Airstrip Road intersection. The project will reevaluate alternatives where the trail will meet with Campbell Airstrip Road's paved pathway to address these concerns.

CONNECTIVITY TO NEIGHBORHOODS

This trail project will connect to Phase I which starts at Regal Mountain Drive and follows the utility easement under the powerlines. Within the neighborhood, there is an existing paved multi-use pathway along the southside of Tudor to Pioneer Drive and Chugach Foothills Park.

FUTURE PUBLIC OPPORTUNITY TO WEIGH IN

This project will go through Trails Review under the MOA's Streets and Trails Review [Anchorage Municipal Code 21.03.190(C) Trail review]. This is a public hearing before the MOA's Urban Design Commission. Once the application has been submitted to the MOA, Copies of the 65% design plans will be routed to Basher Community Council for review and comment.

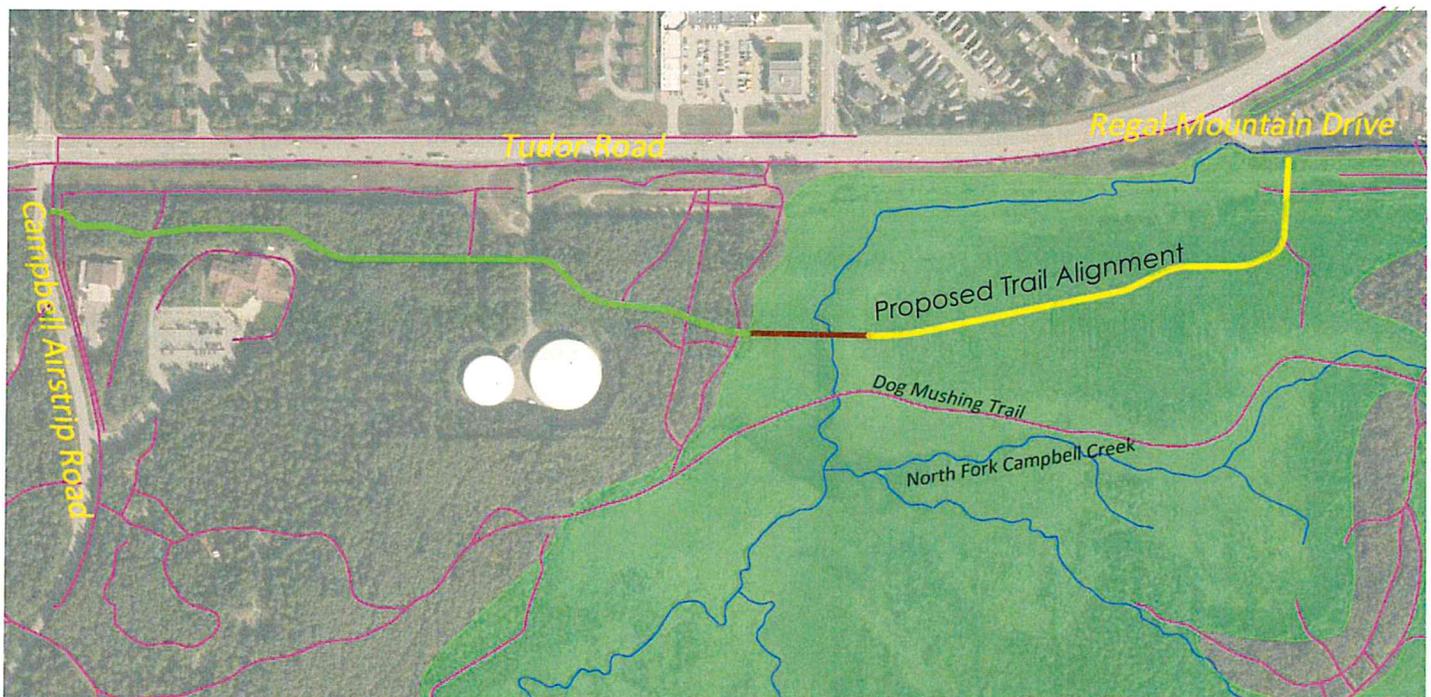
North East Trail Connector Phase II

PROJECT BACKGROUND:

The Chugach Foothills community has expressed a safety concern over the lack of a safe, accessible, east-west pedestrian and bicycle route near the Tudor Road and Muldoon Road curve just east of Campbell Airstrip Road. MOA Parks & Recreation has developed a phased solution to establish an east-west trail in the Far North Bicentennial Park south of Tudor. Phase 1 is completed connecting Klutina Drive to Regal Mountain Drive. Phase 2 will connect Regal Mountain Drive to the trail at Campbell Airstrip Road.

The MOA Parks & Recreation Department received Federal Highway Administration (FHWA) funding through Anchorage Metropolitan Area Transportation Solutions (AMATS) for design in 2019. The earliest construction is anticipated is 2020 for Phase II of the North East Trail Connector project.

The project is just getting started; contact Van Le at vle@rmconsult.com to get involved!



CONTACT:



MOA Parks & Recreation

Taylor Keegan, Project Manager
taylor.keegan@anchorageak.gov
343-4518

R&M Consultants, Inc.

Van Le, AICP Planning & Public Involvement
vle@rmconsult.com
646-9659



CHUGACH FOOTHILLS CONNECTOR, PHASE II

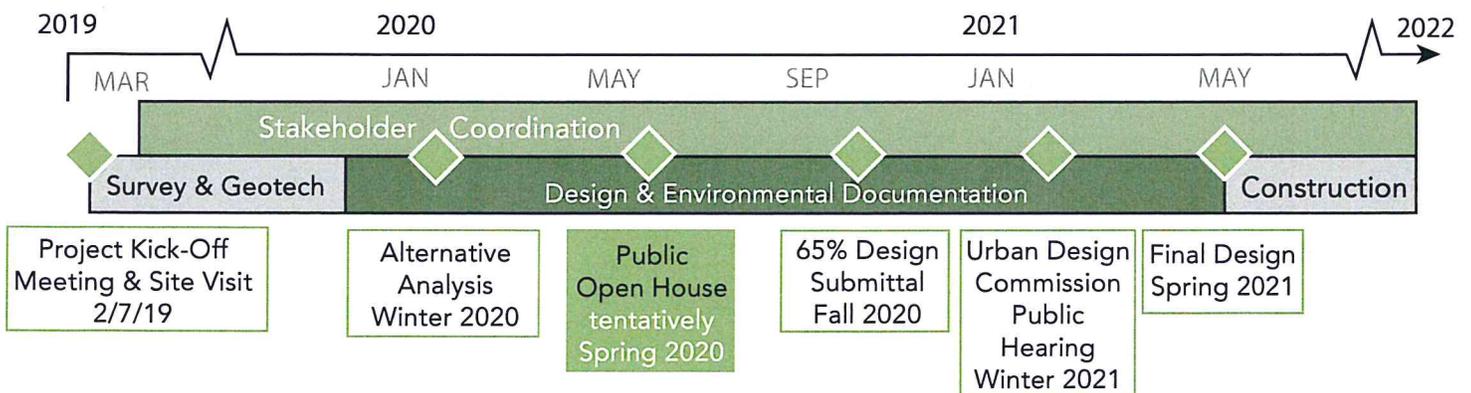
BACKGROUND:

The Scenic Foothills community has expressed concerns over the lack of an accessible, east-west pedestrian and bicycle route near the Tudor Road and Muldoon Road curve just east of Campbell Airstrip Road. The Municipality of Anchorage (MOA) Parks & Recreation Department (PRD) has developed a phased solution to establish an east-west multi-purpose pathway in the Far North Bicentennial Park south of Tudor Road. Phase I is completed connecting Klutina Drive to Regal Mountain Drive. Phase II will connect Regal Mountain Drive to the trail at Campbell Airstrip Road (see Layout Map on reverse side).

The MOA PRD received Federal Highway Administration (FHWA) funding through Anchorage Metropolitan Area Transportation Solutions (AMATS) for this project.

The earliest construction is anticipated in 2021.

PROJECT SCHEDULE:



PROPOSED PROJECT:

The development of the proposed multi-use pathway will link the existing transportation network by providing a separate, offset facility on the south side of Tudor Road for pedestrians, cyclists, skiers, and other non-motorized users.

The proposed work includes the following:

- Construction of a multi-use pathway
- Installation of boardwalk and other amenities
- Drainage improvements
- Vegetation clearing and grubbing
- Utility relocations
- Geotechnical work

The Alaska Department of Transportation and Public Facilities is preparing the environmental document.

Numerous alternatives for the pathway are being explored to identify the most cost-effective alternative while minimizing impacts to the area.

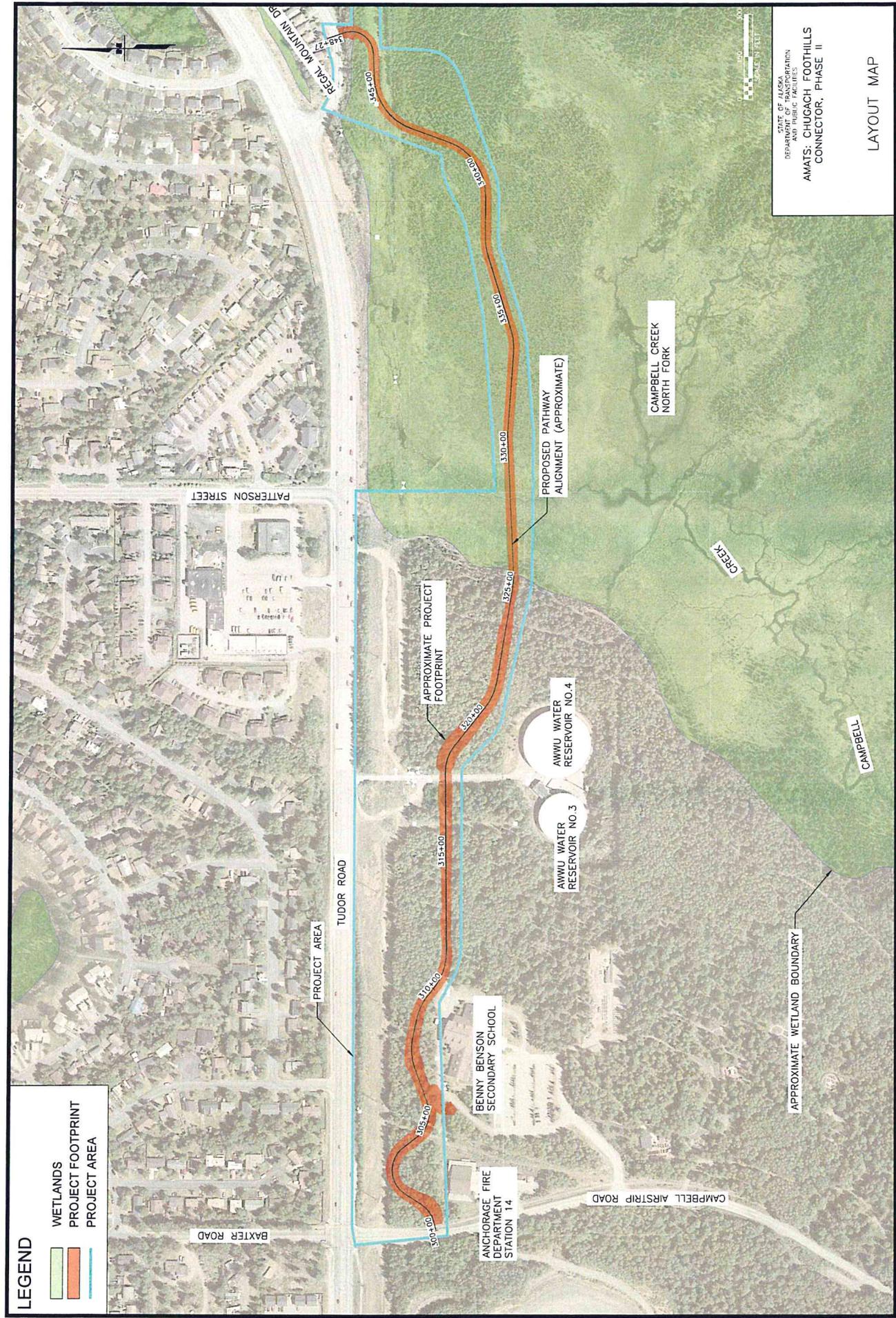
CONTACTS:

MOA PRD

Taylor Keegan, Project Manager
taylor.keegan@anchorageak.gov
907-343-4518

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STATE OF ALASKA
 DEPARTMENT OF HIGHWAY
 AND PUBLIC FACILITIES
**AMATS: CHUGACH FOOTHILLS
 CONNECTOR, PHASE II**
 LAYOUT MAP

Attachment D
Watershed Sign Off Form

WMS WATERCOURSE MAPPING SUMMARY

Per the requirements for watercourse verification outlined in Project Management and Engineering Operating Policy and Procedure #8 and Planning Department Operating Policy and Procedure #1 (effective June 18, 2007), MOA Watershed Management Services has inspected the following location for the presence or absence of stream channels or other watercourses, as defined in Anchorage Municipal Code (21.35).

- Project Case Number or Subdivision Name: 00726108000, 0026106000,
- Project Location, Tax ID, or Legal Description: 00726108000, 0026106000,
00726101000, 00732101000
- Project Area (if different from the entire parcel or subdivision): Pathway connecting Regal
Mountain Drive to the pathway along Campbell Airstrip Road, south of Tudor Road.

In accordance with the requirements and methods identified, WMS verifies that this parcel, project area, or application:

_____ DOES NOT contain stream channels and/or drainageways, as identified in WMS field or archival mapping information.*

X REC _____ DOES contain stream channels and/or drainageways AND these are located and identified on submittal documents in general congruence with WMS field and archival mapping information.
*New or additional mapping IS NOT REQUIRED.**

_____ Contains stream channels and/or drainageways BUT one or more streams or other watercourses:

- are NOT shown on submittal documents, or
- are NOT depicted adequately on submittal documents for verification, or
- are NOT located or identified on submittal documents in general congruence with WMS field and archival mapping information.

*New or additional mapping IS REQUIRED and must be re-submitted for further review and verification.**

_____ Presence of stream channels and/or drainageways is unknown AND field verification is not possible at this time. WMS will verify as soon as conditions and prioritized resources allow.

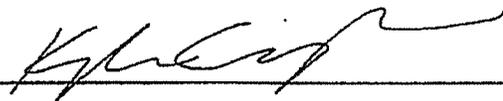
* Streams omitted in error by WMS or others remain subject to MOA Code and must be shown in new mapping upon identification of the error.

ADDITIONAL INFORMATION:

- | | | | | |
|----------------------------|----------------------------|--|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Y | <input type="checkbox"/> N | WMS written drainage recommendations are available. | <input type="checkbox"/> Preliminary | <input type="checkbox"/> Final |
| <input type="checkbox"/> Y | <input type="checkbox"/> N | WMS written field inspection report or map is available. | <input type="checkbox"/> Preliminary | <input type="checkbox"/> Final |
| <input type="checkbox"/> Y | <input type="checkbox"/> N | Field flagging and/or map-grade GPS data is available. | | |

Inspection Certified By:

Date:



3/22/21