

MATANUSKA-SUSITNA BOROUGH PLANNING COMMISSION AGENDA (AMENDED)

Edna DeVries, Mayor

PLANNING COMMISSION
Doug Glenn, District 1
Richard Allen, District 2
C. J. Koan, District 3 - Chair
Andrew Shane, District 4 – Vice-Chair
Linn McCabe, District 5
Wilfred Fernandez, District 6
Curt Scoggin, District 7



Michael Brown, Borough Manager

PLANNING & LAND USE
DEPARTMENT
Alex Strawn, Planning & Land Use
Director
Vacant, Planning Services Manager
Jason Ortiz, Development Services Manager
Fred Wagner, Platting Officer
Vacant, Planning Clerk
Corinne Lindfors, Planning Clerk Assistant

*Assembly Chambers of the
Dorothy Swanda Jones Building
350 E. Dahlia Avenue, Palmer*

August 5, 2024
REGULAR MEETING
6:00 p.m.

Ways to participate in the meeting:

IN PERSON: You will have 3 minutes to state your oral comment.

IN WRITING: You can submit written comments to the Planning Commission Clerk at msb.planning.commission@matsugov.us.

Written comments are due at noon on the Friday prior to the meeting.

TELEPHONIC TESTIMONY:

- Dial 1-855-290-3803; you will hear “joining conference” when you are admitted to the meeting.
- You will be automatically muted and able to listen to the meeting.
- When the Chair announces audience participation or a public hearing you would like to speak to, press *3; you will hear, “Your hand has been raised.”
- When it is your turn to testify, you will hear, “Your line has been unmuted.”
- State your name for the record, spell your last name, and provide your testimony.

OBSERVE: observe the meeting via the live stream video at:

- <https://www.facebook.com/MatSuBorough>
- Matanuska-Susitna Borough - YouTube

I. CALL TO ORDER, ROLL CALL, AND DETERMINATION OF QUORUM

II. APPROVAL OF AGENDA

III. PLEDGE OF ALLEGIANCE

IV. CONSENT AGENDA

A. MINUTES

Regular Meeting Minutes: June 17 & July 15, 2024

B. INTRODUCTION FOR PUBLIC HEARING: QUASI-JUDICIAL MATTERS

Resolution 24-15 A conditional use permit in accordance with MSB 17.30 - Conditional Use Permit for Earth Material Extraction Activities, for the extraction of up to 40,000 cubic yards of earth material annually through 2033. The activity will occur on two parcels, totaling 13.6 acres with the extraction occupying the eastern 5.96 acres. The activity is located at 8751 and 8901 E. Palmer-Wasilla Highway, Tax ID#s 18N01E35C006 & 18N01E35C009; Public Hearing: August 19, 2024; (Applicant: Tim Alley for Mountain Gravel Investment Group LLC; Staff: Peggy Horton, Current Planner)

Resolution 24-20 A conditional use permit in accordance with MSB 17.70 – Regulation of Alcoholic Beverage Uses for a package store known as, Holiday Liquors #650, located at 169 N. Meadow Lakes Loop, Tax ID 8478000L002; Public Hearing: August 19, 2024; (Applicant: Holiday Alaska LLC; Staff: Rick Benedict, Current Planner)

C. INTRODUCTION FOR PUBLIC HEARING: LEGISLATIVE MATTERS

Resolution 24-16 The State of Alaska Office of History and Archaeology has submitted a proposal under MSB 15.04.025 – Naming Geographic Features, to name a currently unnamed 5,325-foot mountain peak as Arkose Peak. The peak is situated at the south end of Arkose Ridge, between the heads of Lone Tree Gulch and Iron Creek and approximately 6.8 miles north of the North Glenn Highway Moose Creek bridge. The proposal is concurrent with a proposal to rename the current Arkose Peak as Souvenir Peak; Public Hearing: August 19, 2024; (Staff: Peggy Horton, Current Planner)

Resolution 24-17 The State of Alaska Office of History and Archaeology has submitted a proposal under MSB 15.04.025 – Naming Geographic Features, to rename the 5,804-foot mountain peak currently named Arkose Peak to Souvenir Peak. The peak is located at the northeast end of Arkose Ridge and approximately 7.2 miles north of the North Glenn Highway Moose Creek bridge; Public Hearing: August 19, 2024; (Staff: Peggy Horton, Current Planner)

Resolution 24-18 The State of Alaska Office of History and Archaeology has submitted a proposal under MSB 15.04.025 – Naming Geographic Features, to name a currently unnamed mountain peak as Mount Carola. The peak is found in Denali National Park and Preserve between Ruth Glacier and Tokasitna

Glacier, approximately 14 miles west of milepost 140 North Parks Highway
Public Hearing: August 19, 2024; (Staff: Peggy Horton, Current Planner)

Resolution 24-19 A Resolution of the Matanuska-Susitna Borough Planning Commission recommending adoption of an amendment to the Official Streets and Highways Plan to update the Engstrom Road to Trunk Road connection on the map. Public Hearing: August 19, 2024; (Staff: Rodney Fodge, Long Range Planner)

V. COMMITTEE REPORTS

VI. AGENCY/STAFF REPORTS

VII. PUBLIC HEARING: LAND USE CLASSIFICATIONS

VIII. AUDIENCE PARTICIPATION (*three minutes per person, for items not scheduled for public hearing*)

IX. PUBLIC HEARING: QUASI-JUDICIAL MATTERS
(*Commission members may not receive or engage in ex-parte contact with the applicant, other parties interested in the application, or members of the public concerning the application or issues presented in the application.*)

X. PUBLIC HEARING: LEGISLATIVE MATTERS

XI. CORRESPONDENCE & INFORMATION

XII. UNFINISHED BUSINESS

XIII. NEW BUSINESS

XIV. COMMISSION BUSINESS:

A. Upcoming Planning Commission Agenda Items

XV. DIRECTOR AND COMMISSIONER COMMENTS

XVI. ADJOURNMENT (*Mandatory Midnight*)

Disabled persons needing reasonable accommodation in order to participate at a Planning Commission Meeting should contact the Borough ADA Coordinator at 861-8432 at least one week in advance of the meeting.

This Page Intentionally Left Blank

The regular meeting of the Matanuska-Susitna Borough Planning Commission was held on June 17, 2024, at the Matanuska-Susitna Borough Assembly Chambers, 350 E. Dahlia Avenue, Palmer, Alaska. The meeting was called to order at 6:00 p.m. by Chair Koan.

I. CALL TO ORDER, ROLL CALL, AND DETERMINATION OF QUORUM

Planning Commission members present and establishing a quorum:

Mr. Doug Glenn, Assembly District #1
 Mr. Richard Allen, Assembly District #2
 Ms. C. J. Koan, Assembly District #3
 Mr. Andrew Shane, Assembly District #4*
 Ms. Linn McCabe, Assembly District #5

Planning Commission members absent and excused were:

Mr. Wilfred Fernandez, Assembly District #6
 Mr. Curt Scoggin, Assembly District #7

Staff in attendance:

Mr. Rick Benedict, Current Planner
 Mr. Alex Strawn, Planning and Land Use Director
 Ms. Shannon Bodolay, Assistant Attorney
 Ms. Corinne Lindfors, Development Services Division Administrative Specialist

*Indicates that the individual attended telephonically.

II. APPROVAL OF AGENDA

Chair Koan inquired if there were any changes to the agenda.

GENERAL CONSENT: The agenda was approved without objection.

III. PLEDGE OF ALLEGIANCE

Commissioner McCabe led the pledge of allegiance.

IV. CONSENT AGENDA

- A. Minutes Regular Meeting Minutes: June 3, 2024
 Special Meeting Minutes: June 3, 2024
- B. INTRODUCTION FOR PUBLIC HEARING: QUASI-JUDICIAL MATTERS
- C. INTRODUCTION FOR PUBLIC HEARING: LEGISLATIVE MATTERS

Resolution 24-14 A resolution of the Matanuska-Susitna Borough Planning Commission recommending that the Assembly reactivate the South Lakes Community Council. Public Hearing: July 15, 2024; (Staff: Julie Spackman, Long Range Planner)

GENERAL CONSENT: The consent agenda was approved without objection.

V. COMMITTEE REPORTS - *(There were no committee reports.)*

VI. AGENCY/STAFF REPORTS - *(There were no Agency/Staff Reports.)*

VII. LAND USE CLASSIFICATIONS - *(There were no land use classifications.)*

VIII. AUDIENCE PARTICIPATION (Three minutes per person.)

Karen Crandall spoke regarding a marijuana business coming to the Big Lake area.

Shannon Bodolay, Assistant Borough Attorney, commented on CUP Procedures.

Suzanna Biederman spoke regarding the South Lakes Community Council.

IX. PUBLIC HEARING: QUASI-JUDICIAL MATTERS

Resolution 24-08 A Conditional Use Permit in accordance with MSB 17.60 – Conditional Uses for the Operation of a Marijuana Retail Facility. The proposed operation is at 4200 E. Snider Drive, Tax ID# 5274B03L007A. (Applicant: Justin Benson, on behalf of Shoreline Cannabis; Staff: Rick Benedict, Current Planner)

Chair Koan read the resolution title into the record and the ex-parte memo asking questions of the Planning Commissioners.

Mr. Rick Benedict presented the staff report.

Commissioners questioned staff regarding the Knik Charter School location.

Chair Koan requested a motion to postpone until the next meeting for staff to gather information.

MOTION: Commissioner Glenn moved to postpone Planning Commission Resolution 24-08 until the next scheduled Planning Commission Meeting on July 15, 2024. Commissioner McCabe seconded the motion.

Discussion ensued.

VOTE: The main motion passed without objection.

Commissioner Andrew Shane joined the meeting via the call-in line.

Resolution 24-09 A Conditional Use Permit in accordance with MSB 17.60 – Conditional Uses for the Operation of a Marijuana Retail Facility. The proposed operation is at 10600 E. Max Drive Tax ID# 2209B02L001A. (Applicant: Anthony Wells, on behalf of Smoke Out Point; Staff: Rick Benedict, Current Planner)

Chair Koan read the resolution title into the record and the ex-parte memo asking questions of the Planning Commissioners.

Mr. Rick Benedict presented the staff report.

Chair Koan invited the applicant to speak.

Ms. Jana Weltzin, attorney for the applicant, addressed the Planning Commission on behalf of her client.

Chair Koan opened the public hearing.

The following persons spoke regarding Planning Commission Resolution 24-09:
Myron Rosenberg *telephonic participation

There being no one else to be heard, Chair Koan closed the public hearing and discussion moved to the Planning Commission.

Chair Koan invited the applicant to respond. Ms. Weltzin addressed concerns.

MOTION: Commissioner Glenn moved to approve Planning Commission Resolution 24-09. Commissioner Allen seconded the motion.

Discussion ensued.

VOTE: The main motion passed without objection.

Resolution 24-11 A Conditional Use Permit in accordance with MSB 17.60 - Conditional Uses, for the operation of a Marijuana Retail Facility. The facility is moving from 1204 North Hyer Road to 6199 East Mountain Heather Way. The new location is on Tax ID # 6932000L002. (Applicant: Teresa Zell; on behalf of Higher By Bad Gramm3r; Staff: Peggy Horton, Current Planner)

Chair Koan read the resolution title into the record and the ex-parte memo asking questions of the Planning Commissioners.

Mr. Rick Benedict presented the staff report.

Commissioners question staff regarding the location.

Chair Koan invited the applicant to speak.

Ms. Jana Weltzin, attorney for the applicant, Terry Zell, addressed the Planning Commission on behalf of the applicant.

Commissioners inquired of the applicant.

Chair Koan opened the public hearing.

The following persons spoke regarding Planning Commission Resolution 24-11:

Suzanna Biederman

There being no one else to be heard, Chair Koan closed the public hearing and discussion moved to the Planning Commission.

Chair Koan invited Staff to respond.

Mr. Benedict addressed Ms. Biederman's concerns.

Commissioners question staff.

Commissioner Koan invited the applicant to respond.

Discussion ensued.

Chair Koan sought clarification on Ordinance 17.60.170 from Shannon Bodolay, MSB Assistant Attorney.

Discussion ensued.

MOTION: Commissioner Glenn moved to approve Planning Commission Resolution 24-11. Commissioner Allen seconded the motion.

Discussion ensued.

VOTE: Main motion passed 4-1 with Commissioner Koan in opposition.

X. PUBLIC HEARING LEGISLATIVE MATTERS

Resolution 24-13 A Resolution of the Matanuska-Susitna Borough Planning Commission recommending repeal of MSB 17.48 Mobile Home Park Ordinance in its entirety; (Staff: Alex Strawn, Planning and Land Use Director)

Chair Koan read the resolution title into the record.

Director Strawn provided a staff report.

Commissioners questioned staff regarding Resolution 24-13.

Chair Koan asked for objections. Commissioner Allen objected.

VOTE: Resolution 24-13 failed by the following vote:
No: Commissioner Allen, Commissioner Koan, Commissioner McCabe,
Commissioner Glenn, & Commissioner Shane.

Director Strawn commented on procedure options for a failed resolutions.

Discussion ensued.

The meeting recessed at 7:40 p.m. and resumed at 8:00 p.m.

Chair Koan called the meeting back to order at 8:00 p.m. A quorum was confirmed.

Director Strawn stated that a procedural error occurred. The commission failed to hold a public hearing. As a remedy to the error, Director Strawn proposed a motion to reconsider.

XI. MOTION TO RECONSIDER RESOLUTION 24-13

MOTION: Commissioner Glenn moved to Reconsider Resolution 24-13 and have a public hearing. Commissioner McCabe seconded the motion.

VOTE: Motion to Reconsider passed unanimously.

Chair Koan opened the public hearing for Resolution 24-13.

The following persons spoke regarding Planning Commission Resolution 24-13:
Myron Rosenberg *Telephonic participation

There being no one else to be heard, Chair Koan closed the public hearing and discussion moved to the Planning Commission.

MOTION: Commissioner McCabe moved to approve Planning Commission Resolution 24-13. Commissioner Shane seconded the motion.

Director Strawn informed the commission of modifications made to 24-13 that he worked on with Commissioner Allen during the recess.

Director Strawn read aloud the changes made to Resolution 24-13.

Title: A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH PLANNING COMMISSION RECOMMENDING FAILURE OF AN ORDINANCE REPEALING MSB 17.48 MOBILE HOME PARK ORDINANCE IN ITS ENTIRETY.

Commissioner McCabe raised a Point of Order to inquire as to the need to explain events leading up to the amendment.

Director Strawn clarified that everything was still a matter of record. The matter is being reconsidered.

Director Strawn read the changes to Resolution 24-13 aloud.

The first original WHEREAS is stricken and replaced with the following language: WHEREAS, the commission opposes the loss of public notice and the ability for a public hearing in front of the planning commission that is included with the mobile home park ordinance.

The next WHEREAS is stricken in its entirety and is replaced with the following verbiage. WHEREAS, mobile home parks present unique risk to public safety based on the risk factors associated with fire entrapment and higher crime.

The third WHEREAS is completely stricken.

The paragraph that begins with NOW, THEREFORE, BE IT RESOLVED, the word approval is replaced with failure, and it reads as follows: NOW, THEREFORE, BE IT RESOLVED, that the Matanuska-Susitna Borough Planning Commission hereby recommends failure of Assembly Ordinance 24-053.

Then, BE IT FURTHER RESOLVED is stricken and replaced with the following: BE IT FURTHER RESOLVED, that the commission recommends the assembly direct staff to require a public hearing for multifamily developments and to incorporate within MSB 17.48 into the multifamily code.

Chair Koan asked the commissioners for comments.

Discussion ensued.

Director Strawn stated a motion to amend should be made incorporating all of these changes into it, and then open it up for discussion and vote.

Chair Koan invited a motion to make the amendment.

MOTION: Commissioner Allen made a motion to make the amendment presented by Mr. Strawn. Commissioner Glenn seconded the motion.

Discussion ensued seeking clarification from Director Strawn and possible language changes.

Director Strawn responded and clarified the language.

Discussion continued as the commissioners considered requiring a study by staff to be added to the resolution.

Director Strawn drafted a secondary amendment.

Discussion continued as Commissioners discussed language and procedure.

Chair Koan clarified language from the previous motion and read it aloud.

MOTION for Secondary Amendment: Commissioner Koan made a motion to amend the amendment, a secondary amendment. BE IT FURTHER RESOLVED that the commission recommends that the assembly direct staff to produce an ordinance that combines and streamlines MSB 17.73 and MSB 17.48 making mobile home parks a chapter within MSB 17.73 that requires a public hearing before the Planning Commission. Commissioner Glenn seconded the motion.

VOTE: Secondary amendment passed unanimously.

Chair Koan inquired as to the procedure and proposed an additional amendment.

Discussion ensued:

Director Strawn clarified the procedure and Chair Koan withdrew the potential amendment.

VOTE: The primary amendment passed unanimously.

Director Strawn clarified the procedure that the commission still needed to vote on the main motion as amended.

VOTE: The main motion for Resolution 24-13 passed without objection.

XII. CORRESPONDENCE AND INFORMATION
(There was no correspondence and information.)

XIII. UNFINISHED BUSINESS - *(There was no unfinished business.)*

XIV. NEW BUSINESS

XV. COMMISSION BUSINESS

- A. Upcoming Planning Commission Agenda Items *(Staff: Alex Strawn)*
(Commission business was presented, and no comments were noted.)

XVI. DIRECTOR AND COMMISSIONER COMMENTS

Director Strawn reminded commissioners on Quasi-Judicial procedure and commented on the work and challenges with tonight's meeting.

Commissioner Allen felt it was a very productive meeting. This is what the public expects from us. I think that we did a good job today.

Commissioner Glenn seconded Commissioner Allen's comments. We did a good job putting pressure on people looking for permits and got some good information from them. Appreciate all of you and everyone who shows up for these meetings.

Commissioner McCabe stated her thanks for everything staff does to prepare for these meetings. I appreciate all the comments, and listening to all of the back and forth on the trailer park really helped me cement in my mind what my perspective should be. Thank you.

Commissioner Shane stated a quick thank you to our clerk, Corinne, for helping. I apologize for the last-minute changes in my ability to be there in person. Thank you to everyone who was present today and helped us get through all of it.

Commissioner Koan thanked staff for the Open Meetings Act training and Robert's Rules training. It was a good training. Thank you to legal for all of their assistance. I don't like for us to feel like we are a stamp of approval when things come through. I felt like this was one of the better meetings even though it was a challenge. Thank you to all.

XVII. ADJOURNMENT

MOTION: Commissioner McCabe moved to adjourn. Commissioner Glen seconded the motion. There were no objections.

The regular meeting adjourned at 8:35 p.m.

C. J. KOAN
Planning Commission Chair

ATTEST:

Corinne Lindfors, Planning Commission Clerk

Minutes approved: _____

The regular meeting of the Matanuska-Susitna Borough Planning Commission was held on July 15, 2024, at the Matanuska-Susitna Borough Assembly Chambers, 350 E. Dahlia Avenue, Palmer, Alaska. The meeting was called to order at 6:00 p.m. by Chair Koan.

I. CALL TO ORDER, ROLL CALL, AND DETERMINATION OF QUORUM

Planning Commission members present and establish a quorum:

Mr. Doug Glenn, Assembly District #1
 Mr. Richard Allen, Assembly District #2
 Ms. C. J. Koan, Assembly District #3
 Mr. Andrew Shane, Assembly District #4
 Ms. Linn McCabe, Assembly District #5
 Mr. Wilfred Fernandez, Assembly District #6*
 Mr. Curt Scoggin, Assembly District #7

Planning Commission members absent and excused were:

Staff in attendance:

Ms. Peggy Horton, Planner II
 Mr. Jason Ortiz, Development Services Manager
 Mr. Alex Strawn, Planning and Land Use Director
 Ms. Denise Michalske, Assistant Attorney
 Ms. Corinne Lindfors, Acting Planning Depart. Administrative Specialist/Planning Commission Clerk

*Indicates that the individual attended telephonically.

II. APPROVAL OF AGENDA

Chair Koan inquired if there were any changes to the agenda.

Chair McCabe moved to amend the agenda to remove the Roman numeral four subsection A. Minutes from June 17. Commissioner Glenn seconded the motion. The motion passed unanimously.

GENERAL CONSENT: The amended agenda was approved without objection.

III. PLEDGE OF ALLEGIANCE

Commissioner Scoggin led the pledge of allegiance.

IV. CONSENT AGENDA-N/A as there are no minutes or introductions.

V. COMMITTEE REPORTS - (There were no committee reports.)

VI. AGENCY/STAFF REPORTS

A. North Lakes Community Council Presentation by Rod Hanson

Planning Commissioners inquire of Mr. Hanson and Planning and Land Use Director Alex Strawn.

VII. LAND USE CLASSIFICATIONS - *(There were no land use classifications.)*

IX. PUBLIC HEARING: QUASI-JUDICIAL MATTERS

Resolution 24-08 A Conditional Use Permit in accordance with MSB 17.60 – Conditional Uses for the Operation of a Marijuana Retail Facility. The proposed operation is at 4200 E. Snider Drive, Tax ID# 5274B03L007A. Public. (Applicant: Justin Benson, on behalf of Shoreline Cannabis; Staff: Rick Benedict, Current Planner)

Chair Koan read the resolution title into the record.

Chair Koan read the ex-parte memo asking the required questions of the Planning Commissioners.

Staff: Peggy Horton provides the staff report and informs the Planning Commissioners that the applicant cannot be present and has requested to postpone the public hearing until the next meeting. Ms. Horton also requests that the commissioners address this request first.

Chair Koan calls for a verbal vote to postpone the public hearing until the August 5 meeting date.

The vote to postpone failed by the following vote:

No: 4 - Commissioner Koan, Commissioner McCabe, Commissioner Glenn, & Commissioner Scoggin

Yes: 2 - Commissioner Allen & Commissioner Fernandez

Jason Ortiz, Development Services Manager: Provides procedural instruction, and a motion must be made and seconded before a vote can be made.

MOTION: Commissioner Allen moved to postpone the public hearing for Resolution 24-08 until the August 5 meeting. The motion was seconded. by Commissioner Fernandez.

VOTE: The motion failed by the following vote:

No: 4 - Commissioner Koan, Commissioner McCabe, Commissioner Glenn, & Commissioner Scoggin

Yes: 2 - Commissioner Allen & Commissioner Fernandez

Staff: Peggy Horton provides additional comments and information on the code.

Jason Ortiz, Development Services Manager: Comments on the visibility of the school and the issue with the school appearing on some of the MSB mapping.

Commissioners continue to question staff regarding the school location, dates of operation, the possibility of a variance, and staff procedures for identifying school locations.

Jason Ortiz, Development Services Manager: Reads from Code 17.65.0.010 and explains a variance would not be possible.

Jana Weltzin, Counsel for the applicant, addresses the commissioners. She apologized for Mr. Benson's absence and provided a timeline of the efforts made by Mr. Benson.

Chair Koan opened the public hearing.

The following persons spoke regarding Planning Commission Resolution 24-08:

Rod Cummings

Ms. Hanson*Telephonic participant

There being no one else to be heard, Chair Koan closed the public hearing, and the discussion moved to the Planning Commission.

Jana Weltzin, Counsel for the applicant, addresses the commissioners.

MOTION: Commissioner Glenn moved to approve Planning Commission Resolution 24-08. The motion was seconded. by Commissioner McCabe.

Discussion ensued: There are two Resolutions 24-08. One approves it, and one is denying it.

Chair Koan asks Commissioner Glenn which Resolution 24-08 his motion was for. 24-08 approving it or denying it.

Commissioner Glen clarified that his motion was to deny it. Commissioner McCabe seconds it.

Chair Koan called for any amendments, but no amendments were made.

Chair Koan asked if there were any objections. Commissioner Allen objected.

VOTE: The main motion recommending failure passed with the following vote:
 Yes: 4 – Commissioner Glenn, Commissioner Koan, Commissioner McCabe, & Commissioner Scoggin
 No: 2 – Commissioner Allen, Commissioner Fernandez

X. PUBLIC HEARING LEGISLATIVE MATTERS

Resolution 24-14 A Resolution of the Matanuska-Susitna Borough Planning Commission recommending that the Assembly reactivate the South Lakes Community Council. (Staff: Julie Spackman, Long Range Planner)

Chair Koan read the resolution title into the record.

Julie Spackman, Long Range Planner, provided a staff report.

Commissioners questioned staff regarding the map and resident numbers for the South Lakes area.

Chair Koan invited the gentleman on the phone to speak.

Dan Kennedy, Vice Chair of the Board of Directors South Lakes Community Counsel, addresses the commissioners.

Chair Koan opened the public hearing.

The following persons spoke regarding Planning Commission Resolution 24-14:

Ms. Hanson *telephonic participant

There being no one else to be heard, Chair Koan closed the public hearing, and the discussion moved to the Planning Commission.

MOTION: Commissioner Allen moved to approve Planning Commission Resolution 24-14. Commissioner McCabe seconded the motion.

Discussion ensued

VOTE: The main motion passed without objection.

XI. CORRESPONDENCE AND INFORMATION

(There was no correspondence and information.)

XII. UNFINISHED BUSINESS - *(There was no unfinished business.)*

XIII. NEW BUSINESS

XIV. COMMISSION BUSINESS

A. Upcoming Planning Commission Agenda Items *(Staff: Jason Ortiz)*

(Commission Business was presented, and no comments were noted.)

XV. DIRECTOR AND COMMISSIONER COMMENTS

Director: Jason Ortiz reminds the commissioners about the quasi-judicial procedure, to be mindful of appeal times, and not to speak about them.

Commissioner Allen: No comments

Commissioner Glenn: No comments

Commissioner McCabe: No comments

Commissioner Scoggin: No comments

Commissioner Fernandez: No comments

Commissioner Koan: Get out there and enjoy the summer. Have a great night.

XVI. ADJOURNMENT

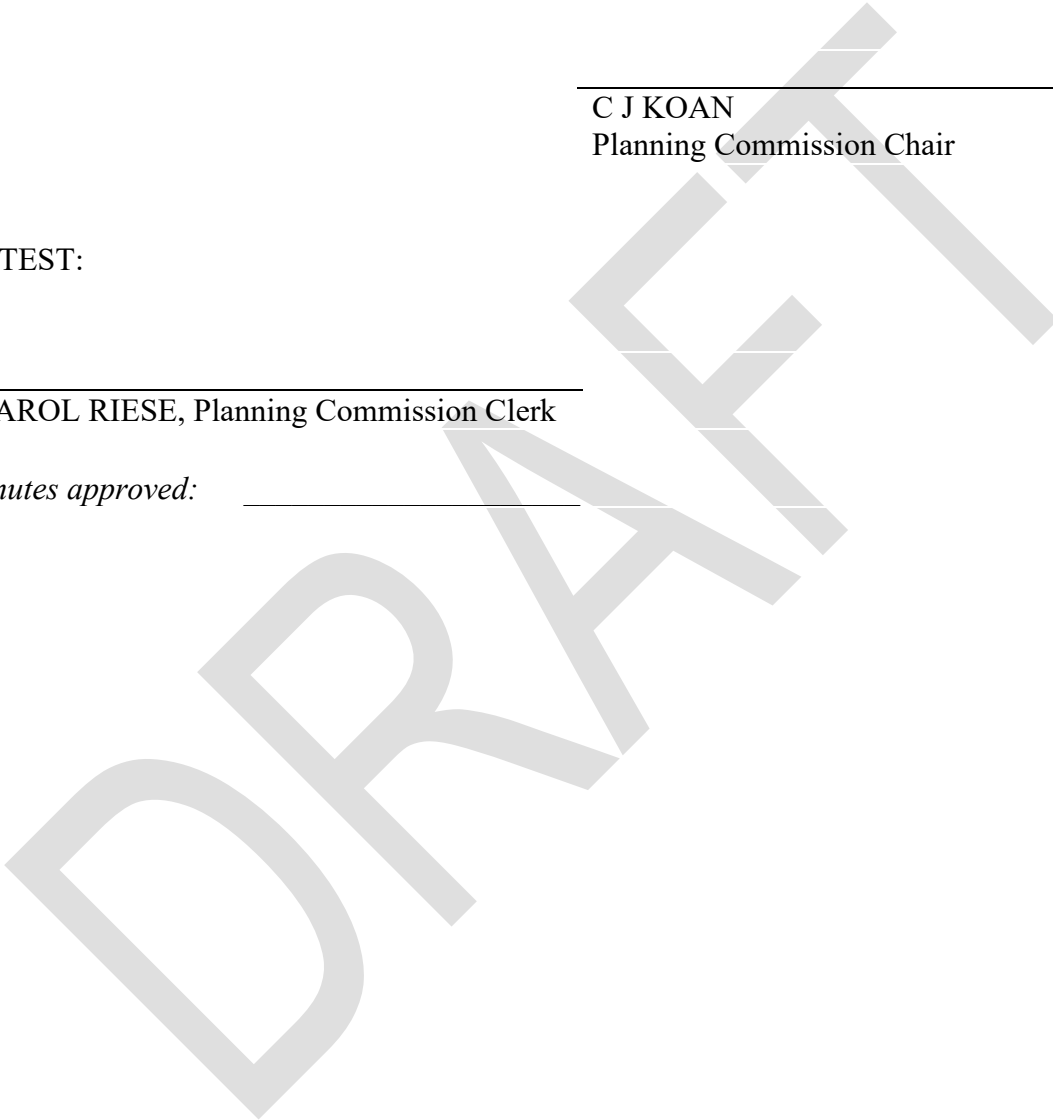
The regular meeting adjourned at 7:08 p.m.

C J KOAN
Planning Commission Chair

ATTEST:

KAROL RIESE, Planning Commission Clerk

Minutes approved: _____



This Page Intentionally Left Blank

**INTRODUCTION FOR
RWDNÆ'J GCTÆI <"
QUASI-JUDICIAL"
O CVVGTU**

**Resolution No. PC 24-15
Mountain Gravel**

RECEIVED
MAR 27 2024

Mat-Su Borough
Development Services



MATANUSKA-SUSITNA BOROUGH

Planning and Land Use Department

Development Services Division

350 East Dahlia Avenue • Palmer, AK 99645

Phone (907) 861-7822

Email: permitcenter@matsugov.us

APPLICATION FOR A CONDITIONAL USE PERMIT FOR EARTH MATERIALS EXTRACTION – MSB 17.30

NOTE: Carefully read instructions and applicable borough code. Fill out forms completely. Attach information as needed. Borough staff will not process incomplete applications.

Application fee must be attached, check one:

\$1000 for Administrative Permit (Less than two years or less than 7,000cy annually)

\$1,500 for Conditional Use Permit (More than two years and more than 7,000cy annually)

Required Attachments:

Site plan as detailed on Page 2

Narrative with operational details and all information required on Page 2

Reclamation Plan

Subject Property:

MSB Tax Account ID#(s): 18N01E35C006, 18N01E35C009

Street Address: 8751 & 8901 E. Palmer Wasilla Hwy., Palmer, AK

Facility/Business Name: Mountain Gravel Pit

Name of Property Owner

Mountain Gravel Investment Group, LLC
~~Cameron Johnson, Managing Member~~

Mailing: PO Box 260770

Encino, CA 91426

Phone: Cell (818) 825-5488

Wk _____ Hm _____

E-mail: cjohnson@amgland.com

Name of Agent / Contact for application

Timothy Alley, PE, TBC, Inc.

Mailing: 1508 E. Bogard Road #7

Wasilla, AK 99654

Phone: Cell (907) 830-2821

Wk (907) 357-6760 Hm _____

E-mail: talley@tbcaak.com

Attach a narrative describing the proposed extraction activities.	Attached
Describe the types of material being extracted.	X
Provide total acreage of all parcels on which the activity will occur.	X
Provide total acreage of earth material extraction activity.	X
Provide total cubic yards to be extracted.	X
Provide the estimated final year extraction will occur.	X
Provide seasonal start and end dates.	X
Provide hours of operation.	X
Provide days of the week operations will take place.	X
Provide proposed peak hour and traffic volume at the peak hour	X
Provide estimated end date of extraction.	X
Provide estimated end date of reclamation.	X
Describe all other uses occurring on the site.	X
Describe methods used to prevent problems on adjacent properties, such as lateral support (steep slopes), water quality, drainage, flooding, dust control, and maintenance of roads.	X
Describe how the operation will monitor the seasonal high water table.	X
Provide quantity estimates and topographical information such as cross section drawings depicting depth of excavation, slopes, and estimated final grade.	X
Provide Reclamation Plan in accordance with MSB 17.28.063 and 17.28.067.	X

Submit a detailed site plan, <i>drawn to scale</i>. Drawings under the seal of an engineer or surveyor are recommended but not required.	Attached
Identify location of permanent and semi-permanent structures on the site for verification of setback requirements. Include wells and septic systems.	X
Depict buffer areas, driveways, dedicated public access easements, noise buffers (such as fences, berms or retained vegetated areas), and drainage control such as ditches, settling ponds, etc.	X
Identify the entire area intended for gravel/material extraction activity.	X
Identify the property boundary containing the operation.	X
Identify ADEC Drinking Water Protection Areas wherever proposed project area boundaries fall within drinking water protection area buffer zones.	X
Identify areas used for past and future phases of the activity.	X
Provide road and access plan that includes anticipated vehicle routes and traffic volumes. If the level of activity exceeds the minimum levels specified in MSB 17.61.090, Traffic Standards, a traffic control plan consistent with state regulations may be required.	X
Provide detailed description of the proposed visual screening.	X
Provide measures to mitigate or lessen noise impacts on surrounding properties.	X
Provide proposed lighting plan.	N/A

Submit documentation showing compliance with borough, state, and federal laws.	Applied for (list file #)	Attached (list file #) or N/A
Submit mining permit as required by the Alaska State Department of Natural Resources (ADNR) if extraction activities are to take place on state land.	N/A	
Provide reclamation plan as required by ADNR, pursuant to AS 27.19. Provide copy of reclamation financial assurance filed with the State of Alaska (If exempt, provide qualifying documents for exemption).	Submitted, Awaiting review	
Provide Notice of Intent (NOI) for construction general permit or multi-sector general permit and storm water pollution prevention plan, and other associated permits or plans required by the Environmental Protection Agency (EPA) pursuant to the National Pollutant Discharge Elimination System (NPDES) requirements.	N/A, See narrative	
Provide United States Army Corps of Engineers permit pursuant to Section 404 of the Clean Water Act, 33 U.S.C. 1344, if material extraction activity is to take place within wetlands, lakes, and streams.	N/A	
Provide any other applicable permits, such as driveway/access permits; list as appropriate.	Driveway Permit submitted, confirmation attached.	

Prior to the public hearing, the applicant must also pay the mailing and advertising fees associated with the application. Staff will provide applicant with a statement of advertising and mailing charges. Payment must be made **prior** to the application presentation at the public hearing.

OWNER'S STATEMENT: I am owner or authorized agent of the following property:

MSB Tax Account ID #(s) 118N01E35C006 and, I hereby apply for approval of conditional use permit for earth material extraction activities on the property as described in this application.

I understand all activity must be conducted in compliance with all applicable standards of MSB 17.28, MSB 17.30, and with all other applicable borough, state, and federal laws, including but not limited to, air quality, water quality, and use and storage of hazardous materials, waste and explosives, per MSB 17.30.055.

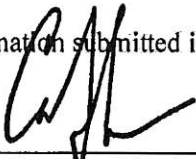
I understand that other rules such as local, state, and federal regulations, covenants, plat notes, and deed restrictions may be applicable and other permits or authorizations may be required. I understand that the borough may also impose conditions and safeguards designed to protect the public's health, safety, and welfare, and ensure the compatibility of the use with other adjacent uses.

I understand that it is my responsibility to identify and comply with all applicable rules and conditions, covenants, plat notes, and deed restrictions, including changes that may occur in such requirements.

I understand that this permit may transfer to subsequent owners of this land and that it is my responsibility to disclose the requirements of this status to operators on this property, and to the buyer when I sell the land. Additionally, I agree to comply with MSB 17,30.120, Transfer of Conditional Use Permit, in the event this permit is transferred to a subsequent property owner.

I grant permission for borough staff members to enter onto the property as needed to process this application and monitor compliance. Such access will at a minimum, be allowed when the activity is occurring and, with prior notice, and at other times necessary to monitor compliance.

The information submitted in this application is accurate and complete to the best of my knowledge.


Signature: Property Owner Cameron Johnson 3/12/24
Printed Name Date


Signature: Agent TIMOTHY ACARY 3/12/24
Printed Name Date

RECEIVED
28 of 446
MAR 27 2024

Mat-Su Borough
Development Services



MATANUSKA-SUSITNA BOROUGH

Planning and Land Use Department

Development Services Division

350 East Dahlia Avenue • Palmer, AK 99645

Phone (907) 861-7822

Email: permitcenter@matsugov.us

APPLICATION FOR A CONDITIONAL USE PERMIT FOR EARTH MATERIALS EXTRACTION – MSB 17.30

NOTE: Carefully read instructions and applicable borough code. Fill out forms completely. Attach information as needed. Borough staff will not process incomplete applications.

Application fee must be attached, check one:

\$1000 for Administrative Permit (Less than two years or less than 7,000cy annually)

\$1,500 for Conditional Use Permit (More than two years and more than 7,000cy annually)

Required Attachments:

Site plan as detailed on Page 2

Narrative with operational details and all information required on Page 2

Reclamation Plan

Subject Property:

MSB Tax Account ID#(s): 18N01E35C006, 18N01E35C009

Street Address: 8751 & 8901 E. Palmer Wasilla Hwy., Palmer, AK

Facility/Business Name: Mountain Gravel Pit

Name of Property Owner

Louis Green and Bryce W-Green

Mailing: PO Box 3432

Palmer, AK 99645

Phone: Cell 907-202-1389

Wk _____ Hm _____

E-mail: pipercub58@yahoo.com

Name of Agent / Contact for application

Timothy Alley, PE, TBC, Inc.

Mailing: 1508 E. Bogard Road #7

Wasilla, AK 99654

Phone: Cell (907) 830-2821

Wk (907) 357-6760 Hm _____

E-mail: talley@tbcak.com

Attach a narrative describing the proposed extraction activities.	Attached
Describe the types of material being extracted.	X
Provide total acreage of all parcels on which the activity will occur.	X
Provide total acreage of earth material extraction activity.	X
Provide total cubic yards to be extracted.	X
Provide the estimated final year extraction will occur.	X
Provide seasonal start and end dates.	X
Provide hours of operation.	X
Provide days of the week operations will take place.	X
Provide proposed peak hour and traffic volume at the peak hour	X
Provide estimated end date of extraction.	X
Provide estimated end date of reclamation.	X
Describe all other uses occurring on the site.	X
Describe methods used to prevent problems on adjacent properties, such as lateral support (steep slopes), water quality, drainage, flooding, dust control, and maintenance of roads.	X
Describe how the operation will monitor the seasonal high water table.	X
Provide quantity estimates and topographical information such as cross section drawings depicting depth of excavation, slopes, and estimated final grade.	X
Provide Reclamation Plan in accordance with MSB 17.28.063 and 17.28.067.	X

Submit a detailed site plan, <u>drawn to scale</u>. Drawings under the seal of an engineer or surveyor are recommended but not required.	Attached
Identify location of permanent and semi-permanent structures on the site for verification of setback requirements. Include wells and septic systems.	X
Depict buffer areas, driveways, dedicated public access easements, noise buffers (such as fences, berms or retained vegetated areas), and drainage control such as ditches, settling ponds, etc.	X
Identify the entire area intended for gravel/material extraction activity.	X
Identify the property boundary containing the operation.	X
Identify ADEC Drinking Water Protection Areas wherever proposed project area boundaries fall within drinking water protection area buffer zones.	X
Identify areas used for past and future phases of the activity.	X
Provide road and access plan that includes anticipated vehicle routes and traffic volumes. If the level of activity exceeds the minimum levels specified in MSB 17.61.090, Traffic Standards, a traffic control plan consistent with state regulations may be required.	X
Provide detailed description of the proposed visual screening.	X
Provide measures to mitigate or lessen noise impacts on surrounding properties.	X
Provide proposed lighting plan.	N/A

Submit documentation showing compliance with borough, state, and federal laws.	Applied for (list file #)	Attached (list file #) or N/A
Submit mining permit as required by the Alaska State Department of Natural Resources (ADNR) if extraction activities are to take place on state land.	N/A	
Provide reclamation plan as required by ADNR, pursuant to AS 27.19. Provide copy of reclamation financial assurance filed with the State of Alaska (If exempt, provide qualifying documents for exemption).	Submitted, Awaiting review	
Provide Notice of Intent (NOI) for construction general permit or multi-sector general permit and storm water pollution prevention plan, and other associated permits or plans required by the Environmental Protection Agency (EPA) pursuant to the National Pollutant Discharge Elimination System (NPDES) requirements.	N/A, See narrative	
Provide United States Army Corps of Engineers permit pursuant to Section 404 of the Clean Water Act, 33 U.S.C. 1344, if material extraction activity is to take place within wetlands, lakes, and streams.	N/A	
Provide any other applicable permits, such as driveway/access permits; list as appropriate.	Driveway Permit submitted, confirmation attached.	

Prior to the public hearing, the applicant must also pay the mailing and advertising fees associated with the application. Staff will provide applicant with a statement of advertising and mailing charges. Payment must be made **prior** to the application presentation at the public hearing.

OWNER'S STATEMENT: I am owner or authorized agent of the following property:

MSB Tax Account ID #(s) 118N01E35C009 and, I hereby apply for approval of conditional use permit for earth material extraction activities on the property as described in this application.

I understand all activity must be conducted in compliance with all applicable standards of MSB 17.28, MSB 17.30, and with all other applicable borough, state, and federal laws, including but not limited to, air quality, water quality, and use and storage of hazardous materials, waste and explosives, per MSB 17.30.055.

I understand that other rules such as local, state, and federal regulations, covenants, plat notes, and deed restrictions may be applicable and other permits or authorizations may be required. I understand that the borough may also impose conditions and safeguards designed to protect the public's health, safety, and welfare, and ensure the compatibility of the use with other adjacent uses.


I understand that it is my responsibility to identify and comply with all applicable rules and conditions, covenants, plat notes, and deed restrictions, including changes that may occur in such requirements.

I understand that this permit may transfer to subsequent owners of this land and that it is my responsibility to disclose the requirements of this status to operators on this property, and to the buyer when I sell the land. Additionally, I agree to comply with MSB 17.30.120, Transfer of Conditional Use Permit, in the event this permit is transferred to a subsequent property owner.

I grant permission for borough staff members to enter onto the property as needed to process this application and monitor compliance. Such access will at a minimum, be allowed when the activity is occurring and, with prior notice, and at other times necessary to monitor compliance.

The information submitted in this application is accurate and complete to the best of my knowledge.

	<u>Louis H. Green, Jr.</u>	<u>3/13/24</u>
Signature: Property Owner	Printed Name	Date

	<u>Timothy A. ...</u>	<u>3/12/24</u>
Signature: Agent	Printed Name	Date



March 13, 2024

Mountain Gravel Investment Group, LLC
Cameron Johnson, Managing Member
PO Box 260770
Encino, CA 91426

Subject: Letter of Consent for Gravel Extraction

Dear Mr. Johnson,

We, Louis and Bryce W-Green, the legal owners of the property located at 8751 E. Palmer Wasilla Hwy., Palmer, AK 99645, having legal description Township 18N Range 1E Section 35 Lot C9, hereby grant our consent to Mountain Gravel Investment Group, LLC, to undertake the extraction of gravel on the specified site.

By providing this consent, we, Louis and Bryce W-Green, confirm that we are the legal owners of the property and have the authority to grant permission for gravel extraction on the subject lot.

We trust that Mountain Gravel Investment Group, LLC, will carry out the gravel extraction activities with the highest level of responsibility and consideration for the environment and surrounding community.

This consent is provided under the following conditions:

1. Mountain Gravel Investment Group, LLC, must comply with all local, state, and federal laws and regulations governing gravel extraction and environmental protection during the entire extraction process.
2. Mountain Gravel Investment Group, LLC, is responsible for obtaining all necessary permits and approvals required for gravel extraction from the relevant authorities.
3. The extraction activities should be conducted with the utmost care to minimize impact to surrounding properties and the environment. The site shall be reclaimed as required by the Reclamation Plan submitted to Matanuska-Susitna Borough and Alaska Department of Natural Resources.
4. The extraction activities should not interfere with the rights and activities of neighboring properties, and any potential disruption should be minimized.
5. Mountain Gravel Investment Group, LLC, must hold Louis and Hayden Green harmless from any liability, claims, or damages arising out of or in connection with the gravel extraction activities.

- 6. Mountain Gravel Investment Group, LLC, shall limit activity to the area identified for gravel extraction and is liable for any damages caused to the property outside of the gravel extraction area and is required to take appropriate measures to prevent such damages.

Signed,

Louis and Bryce W-Green

8751 E. Palmer Wasilla Hwy.

Palmer, AK 99645

[Handwritten signature of Louis Green]

Louis Green

3/13/24

Date

[Handwritten signature of Bryce W-Green]

Bryce W-Green

3/13/24

Date

By Louis Green P.O.A.

STATE OF ALASKA)

) ss.

THIRD JUDICIAL DISTRICT)

I, the undersigned Notary Public for the aforesaid jurisdiction, do hereby certify that Louis Green, POA Bryce Green of City of Palmer, personally appeared before me this day, and being by me duly sworn, says that he executed the foregoing and annexed instrument for and in behalf of City of Palmer.

Witness my hand and official seal, this 13th day of March, 2023.



[Handwritten signature of Madeline Fuller]

Notary Public for the State of Alaska

My commission expires: 09/16/27



The Boutet Company, Inc.
601 E. 57th Place, Ste 102
Anchorage, AK 99645

Phone 907.522.6776
www.tbca.com

July 1, 2024

Planning and Land Use Department
Matanuska- Susitna Borough
350 E. Dahlia Avenue
Palmer, AK 99645

RE: Earth Materials Extraction Permit
Mountain Gravel Pit

To Whom It May Concern:

On behalf of Mountain Gravel Investment Group, LLC, The Boutet Company has prepared the following submittal in pursuit of a Conditional Use Permit for Earth Materials Extraction with the Matanuska-Susitna Borough. The proposed gravel extraction is located on two lots located at 8751 and 8901 E. Palmer Wasilla Highway (PWH) having legal descriptions Township 18N Range 1E Section 35 Lot C6 and C9. The lots have a total area of 13.16 acres of which the gravel extraction will occur on the easter 5.96 acres. The gravel extraction will remove a ridge that runs east to west through lot C6 and terminates in lot C9. The extraction will remove material to an elevation near the existing elevation of the Palmer Wasilla Highway to prepare it for future commercial and/or multifamily development.

An existing residence is located in the northwest corner of Lot C9. Mountain Gravel Investment Group is in the process of purchasing this lot. The current owner has signed a letter of consent for the gravel extraction until the transfer of ownership is completed, at which time the residence will be vacated.

The site is an existing hill approximately 50' tall running from east to west across the properties. The planned development proposed to extract approximately 285,000 cubic yards of gravel material over the next 8-9 years. Use of the gravel extracted will be limited to select developments. The pit will not be open to the general public. Screening of material is the only planned processing of soils. No crushers, asphalt or concrete plants will be used.

Three test pits were dug to assess the subsurface soil conditions. Based on initial soil test pits there is approximately 1-3' of topsoil with usable clean gravels below. Test pits 1 and 3 were dug to a depth of 10' and more than 4' below the planned bottom of pit. The location of test hole 1 and monitoring tube has an existing elevation of approximately 372.97' the test hole was dug to a depth of 363' (10' deep) and a 4" perforated tube was installed for groundwater monitoring. Heading northwest through the site toward test hole 3 in the northwest corner the topography rises to an maximum approx. elevation of 418.00' and then drops back down to 360' elevation at the northwest property corner. At the location of test hole 3, the existing ground elevation is 368.90'. This hole was excavated 10' deep to a

bottom of hole elevation of 359' elevation and a 4" perforated tube was installed for groundwater monitoring. No groundwater was encountered during the exploration. Test hole 2 was excavated at the top of the gravel ridge to verify the quality of the onsite soils.

The site will be excavated to a depth of 5 to 49 feet maximum below the existing ground surface. During extraction, side slopes will be excavated to the maximum slope of 1.5' horizontal to 1' vertical and then flattened to 2:1 with silty overburden material. Noise and sight buffering will be completed with retained vegetation and berm. A 10-foot no clearing buffer, protecting existing vegetation, along all adjacent property boundaries (except ROW) to protect the neighboring properties from noise, equipment lights (no site lighting is proposed) and slope erosion. This setback will be maintained throughout extraction and reclamation. In addition to the 10' vegetated buffer, a 10-foot tall berm will be maintained around all sides of the pit with the exception of the southeast corner where access is provided off of the Palmer-Wasilla Highway. It is requested that this area be waived from screening requirements as it is necessary to provide access to the site. At the onset of development of a phase, all grubbing will be pushed to the phase limits to create the 10-foot berm. Extraction will take place working from south to north for phases 1-6 and east to west for phases 7-9. Equipment will extract from the bottom of the cut slope. As the limits of the pit are reached, the berm created with grubbing material will be removed and a 10-foot minimum height slope will remain on the inside of the pit. As the extraction enters into phase 4, an additional room is available, the settling pond will be relocated to provide room to construct a 10' berm along the southern portion of the eastern property line. In this way, a 10' high noise buffer will be maintained along all property lines to the greatest extent practicable.

Site drainage will be controlled primarily in the grading of the pit floor. The final grade of the pit will be sloped into the pit to minimize discharge from the site. A minimum 10-foot-high pit wall and/or berm will be maintained around the pit providing perimeter runoff control from extraction through reclamation. The gravels within the site and pit floor are fairly clean, free from silt and free draining. Stormwater will easily percolate into the pit floor during extraction continuing when the site is reclaimed.

The extraction operation will utilize minimal equipment on this site. A loader and/or excavator will be utilized to load trucks for hauling. Peak hour traffic is difficult to estimate as the pit will typically run a set quantity of trucks for the day for several hours and will be adjusted due to travel time to and from the pit during high traffic times on PWH. With this in mind it, is estimated that the peak traffic hour will be 10:00 AM when the AM peak hour on PWH has subsided and is least restrictive to the truck haul. That said, the operator will be limited onsite to how quickly they can load trucks on site. It is estimated that truck time at the pit will be 5 minutes minimum from entrance to load and exit. The operator will choose the amount of trucks hauling based on distance to the customer/project to keep maximum efficiency at the pit and not have trucks lined up, waiting to be loaded. This allows for an average of 12 trucks per hour. As the site is developed, additional room may be available onsite for turning around trucks but at no time will the traffic be greater than 20 trucks per hour. Track out and dust control with the pit will be mitigated through use of a track out BMP at the site entrance to help vibrate soils loose before trucks enter the roadway. Additionally, the pit operator will sweep PWH as

needed by not less than every 4 hours. Water will be used during sweeping and extraction as needed to keep dust generation to a minimum.

The site will use the existing approach onto PWH. Right turns may be made readily from the site on PWH. During high traffic times on the PWH and when hauling at more than 10 trucks per hour the approach will be utilized as right-in, right-out only to avoid turning across PWH. Advanced warning signs (CW 8-6 Truck Crossing) will also be set up on PWH to warn traffic of the trucks turning from the approach. Pit will operate daily, as needed for projects, between 7:00 AM and 5:00 PM, Monday through Saturday.

The material extraction area does extend into a Zone A drinking water protection area. A hydrogeologic analysis was completed by Stafford Glashan, Shannon and Wilson. The analysis concluded, due to the distance from the well and the impermeable soil below between the extraction area and aquifer, normal gravel extraction activities will be unlikely to have a negative impact on the water quality in the well associated with this protection area. Best management practices were recommended to minimize accidental releases of petroleum products, These include no storage of petroleum products in excess of 55 gallons within the protection area, Store all petroleum products within a secondary containment feature and observe all maintenance and refueling activities to promptly clean up any drips and report all spills to ADEC as required by regulation. The operator will implement a stormwater protection plan and include these recommended BMP's for implementation during extraction until reclamation.

The area proposed for extraction can provide approximately 285,000 cubic yards of gravel and topsoil material. It is intended that 30,000-40,000 CY will be extracted yearly while the pit is in operation yearly from (approximately) May 15 to October 31, depending on demand, seasonal weight restrictions and weather. It is estimated that the pit will be exhausted after about 9 years (2033) of extraction at 33,000 CY/Yr.

As material is extracted, pit walls will be excavated to a maximum 1.5' V to 1' H temporarily and then flattened to 2:1 for stabilization. While the soil is stable at 1.5:1 slope, 2:1 will provide additional protection and minimize risk for erosion. No slope will be left steeper than 2:1 during seasonal shutdown of the pit (winter). Reclamation of the pit expansion includes stabilization of the site slopes and pit floor by placing 4" minimum compacted thickness of topsoil and hydraulically applied mulch and seed. Completion of the slopes will occur as soon as possible as the material is extracted and to avoid contamination (silt and organics) of the existing soils. The site shall be kept clear of garbage and debris including derelict/abandoned vehicles and/or parts. All garbage and debris will be hauled to MSB Central Landfill or approved recycling site for disposal.

A SWPPP has been prepared as required by the Multisector General Permit (MSGP), however, no outfall is required nor will be constructed. The pit bottom will be graded relatively flat and the existing soils will easily absorb any precipitation. As such, no stormwater or non-stormwater sources will discharge from the pit area and therefore does not fall under coverage of the permit. The proposed pit expansion is not eligible for a Notice of Intent per 2020 MSGP section

1.2.1, "To be eligible to discharge under this permit, a permittee must have a storm water discharge associated with industrial activity from the permittee's primary industrial activity..." This is confirmed in the attached letter from Shawn Trasky, AK CESCL certified.

Please see the attached supporting documents for this submittal. Please feel free to contact me for with any questions or requests for additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'T. Alley', is positioned below the word 'Sincerely,'.

Tim Alley, PE
Civil Engineer
The Boutet Company, Inc.
Office: (907) 357-6760
Mobile: (907) 830-2821
Email: talley@tbcak.com



The Boutet Company, Inc.
601 E. 57th Place, Ste 102
Anchorage, AK 99645

RECEIVED 84 of 446
MAR 27 2024
Mat-Su Borough
Development Services
Phone 907.522.6776
www.tbca.com

March 27, 2024

Peggy Horton
Planner II
Planning and Land Use Department
Matanuska- Susitna Borough
350 E. Dahlia Avenue
Palmer, AK 99645

RE: Earth Materials Extraction Permit - RFAI
Mountain Gravel Pit

Dear Peggy,

Thank you for your review of this permit application. Since the time of the initial application submittal, the pit operator, Mountain Gravel Investment Group, LLC, has entered into an agreement with the neighboring west property owners to extract gravel from a portion of that property as well. This 8.78 acre property is located at 8751 E. Palmer Wasilla Hwy (PWH) having legal description: Township 18N Range 1E Section 35 Lot C9. This additional proposed extraction will be completed under the same conditions and methods as the original proposed extraction. The inclusion of this lot brings the total extraction area up to 5.96 acres on the total 13.16 acres of these two parcels. Originally, after material was extracted from 8901 PWH a ridge would have been left at the property line. The inclusion of this area will result in more usable area for future development in this prime location for commercial uses. An additional application has been signed by the owner of this lot and is provided with this letter.

We have reviewed your request for additional information and have provided the responses below and attached supporting documentation:

- 1. Comment: The application form was outdated.
Response: Please see attached application on latest MSB Form.
- 2. Comment: Site plans do not have the correct property boundary.
Response: Property Boundary has been updated. Revised extraction and reclamation plans are attached.
- 3. Comment: Correct the mislabeling of the sheets; there are two sheets labeled as 5/6.
Response: This has been corrected with the attached revised plans.

Mountain Gravel Pit
 Permit for Earth Materials Extraction
 Page 2 of 5

4. Comment: During our research we found a 'Zone A' drinking water protection area overlaying a good portion of the subject property. According to the BMP's for Gravel/Rock Extraction Projects, DEC recommends extraction limits be restricted to areas outside any PWS source buffer zone, equipment storage, maintenance and operation should be as limited as possible within designated buffer zones, and appropriate BMP's should be used to prevent water contamination.
- MSB 17.28.067€ states that surface water quality shall be protected by implementing applicable best management practices described in the current publication of the State of Alaska's User Manual BMP's for Gravel Pits.
 - Where proposed mining is closer to the public water system source areas, the BMP's recommended that a detailed hydrogeologic study per section 4.3 be performed by a qualified person to evaluate potential impacts and design effective mitigation alternatives.
 - Address these concerns and how the extraction will mitigate impacts.

Response: The subject Zone A drinking water protection area boundaries have been added to the extraction plan. Please see attached letter discussing the aquifer associated with this protection zone and associated mitigation measures.

5. Comment: The application states that 10' test pits were dug and groundwater monitoring tubes were installed. The application also states the site will be excavated to a depth of 45 feet on average, 49 feet maximum below the existing ground surface.
- Discuss how the operation will monitor seasonal high water table to maintain a four-foot vertical separation as required by MSB 17.28.060(A)(7)(b). Explain how you will monitor the groundwater depth when you go beyond 10' deep test holes and then through several years of excavation.
 - I may be misunderstanding how deep the groundwater monitoring tubes are; please explain.

Response: The site currently has a ridge of gravel running east-west through the lot. The location of test hole 1 and monitoring tube has an existing elevation of approximately 372.97' the test hole was dug to a depth of 363' (10' deep) and a 4" perforated tube was installed for groundwater monitoring. As you move northwest through the site toward test hole 3 in the northwest corner the topography rises to an maximum approx. elevation of 418.00' and then drops back down to 360' elevation at the northwest property corner. At the location of test hole 3, the existing ground elevation is 368.90'. This hole was excavated 10' deep to a bottom of hole elevation of 359' elevation and a 4" perforated tube was installed for groundwater monitoring. The final pit floor will slope from south to north at approximately 0.5% with a minimum bottom of pit elevation of 368' at the northwestern most limit of extraction 4' above the bottom of test hole 1 and 9' above the bottom of test hole 3.

6. Comment: Explain the shaded driveway connection for the eastbound haul route shown on Sheet 2/6. Sheet 6/6 shows that trucks exiting east and west will use the same driveway, so the note is unclear.

Response: This was a hold over from a previous revision. This driveway connection has been removed.

Mountain Gravel Pit
Permit for Earth Materials Extraction
Page 3 of 5

7. Comment: Provide an estimated peak hour (1 hour within the day) and estimated traffic volume at the peak hour.

Response: Peak hour traffic is difficult to estimate as the pit will typically run a set quantity of trucks for the day for several hours and will be reduced due to travel time to and from the pit during high traffic times on the Palmer-Wasilla Highway. With this in mind it is estimated that the peak traffic hour will be 10:00 AM when the AM peak hour on PWH has subsided and is least restrictive to the truck haul.

That said, the operator will be limited onsite to how quickly they can load trucks. It is estimated that truck time at the pit will be 5 minutes minimum from entrance to load and back out. The operator will choose the amount of trucks hauling based on distance to the customer/project to keep maximum efficiency at the pit and not have trucks lined up, waiting to be loaded. This allows for a maximum of 12 trucks per hour.

8. Comment: Provided additional information concerning the retention basin.
a. How did you determine the size and placement of the basin?

Response: The site gravels are clean and low in silt content as such they accept and percolate stormwater readily. Percolation rates for this type of soil are typically faster than 1" per minute. Also, the pit extraction will grade the bottom of pit to drain north, into the site. The "retention basin" was incorrectly named, as "retention" assumes the basin was sized to retain a certain storm event. It has been renamed as a settling basin and is included in the design as a method for providing collection of sediment laden stormwater, providing opportunity for the sediment to drop out of the water and percolate into the ground. Primary stormwater abatement is through percolation into the pit floor. This basin is for "added protection" to avoid any offsite impacts. Also, the basin will serve to collect runoff from wheel washing or dust control, if used.

9. Comment: The reclamation sheet 4/6 shows the existing topographic contours. This is confusing because when reclamation is occurring, the topography will have changed.
a. This may be resolved with a phone call to require my understanding.

Response: The Final excavation and reclamation surface are the same with the exception of adding 4" of topsoil to stabilize the slopes. Due to this, the final ex topography will not appear any different than the reclaim surface.

10. Comment: Changes in use require updates to driveway permits for ADOT&PF roads just like the do for MSB permits.
a. Explain the status of the ADOT&PF driveway permit for access onto Palmer-Wasilla Highway for this operation.

Response: We have reapplied for the driveway permit with DOT. DOT has agreed that the existing approach is adequate for the proposed use. They have requested additional information regarding the maintenance/removal of sand and gravel tracked out onto Palmer Wasilla Highway. We have added language regarding sweeping of PSH and a trackout reduction BMP at the site entrance.

Mountain Gravel Pit
Permit for Earth Materials Extraction
Page 4 of 5

11. Comment: The reclamation plan provided with the application is lacking some information required per MSB 17.28.063 & 17.28.067.
- Address the removal of junk vehicles, parts, and trash.
 - All disturbed area shall be covered with a minimum compaction depth of four inches of topsoil.
 - Explain how the proposed hydraulically applied medium complies with MSB 17.28.067(G) & (H).

Response: Notes have been added addressing removal of debris and to address topsoiling of slopes. Use of hydraulically applied growth medium has been removed.

12. Comment: Provide a copy of qualifying documents for exemption from financial assurance for small operations, normally a letter from DNR that they received and accepted the exemption.

Response: The reclamation plan has been submitted to DNR we are awaiting their review/response. This project is not exempt from the reclamation requirements. Provided with this letter is the application fee receipt and the State Reclamation Bonding Pool application with a copy of the payment. The payment for the bonding pool has been sent by mail and a receipt from DNR has not yet been received.

13. Comment: The slopes proposed for the side of the excavation and for the visual and noise buffers appear to be very steep and may sluff material causing erosion of the buffers and slopes. Within the Borough, the normal angle of repose for sand and gravel has been 1.5:1 to 2:1.
- Provide a professional examination of material conditions that would allow an angle of repose to be 0.5:1 slope.

Response: Slopes have been redesigned to be a maximum steepness of 2:1. The visual and noise buffer berms will be composed of topsoil, roots and stumps and will be stabilized with seed. As such, the woody debris within the berms will provide additional stability to the soils and seeding will prevent erosion during gravel extraction. Furthermore, extraction will remain 30' from the property boundary until phase 6 and the final phase. It is intended that during these phases slopes will be excavated to their final limit and be reclaimed within the same year. In this way, any erosion of slopes will remain on property and will not damage neighboring lots until the slopes are completed and stabilized. The onsite materials are stable, temporarily at a 1.5:1 slope and could erode during spring thaw. With this in mind, we have added an option for removing gravel on side slopes up to 1.5:1 with the requirement that they be built out to a 2:1 prior to seasonal shutdown the same year.

14. Comment: Provide information on dust control measures and tracking of materials.

Response: A stabilized exit will be constructed at the driveway into the pit. This will either be cobbles to shake dirt loose from the trucks or pavement to provide a maintainable surface to collect track out before the palmer Wasilla highway. A settling pond is located next to the access to provide a location to accept sediment laden water from cleaning the stabilized exit. We have added notes to the plan requiring the pit operator to sweep PWH as needed and at minimum every 4 hours.

Mountain Gravel Pit
Permit for Earth Materials Extraction
Page 5 of 5

15. Comment: Within the narrative protecting the adjacent properties is mentioned, but in the application, no lighting plan is proposed.
a. Update narrative and form.

Response: Narrative and application have been updated as needed. While no site lighting is proposed for this pit, lighting from truck head lights may be a source of glare to the neighboring properties. This is the light source(s) that the protection is addressing.

16. Comment: If the operation does not require coverage under the MSGP, provide a professional opinion by a CESCL certified individual or a licensed engineer to comply with Page 3 of the application.

Response: See attached letter.

Please see the attached supporting documents for this submittal. Please feel free to contact me for with any questions or requests for additional information.

Sincerely,



Tim Alley, PE
Civil Engineer
The Boutet Company, Inc.
Office: (907) 357-6760
Mobile: (907) 830-2821
Email: talley@tbcak.com

From: [Tim Alley](#)
To: [Peggy Horton](#)
Subject: RE: Mountain Gravel Extraction CUP
Date: Friday, June 28, 2024 10:59:53 AM

[EXTERNAL EMAIL - CAUTION: Do not open unexpected attachments or links.]

Hi Peggy,

There is no plan to have a scale or scale house on the site. They will sell materials by the cubic yard.

Thank you,

Tim

TBC, Inc.	Project Management & Development - Engineering - Surveying - Landscape Architecture
Tim Alley, P.E. Principal/Vice President talley@TBCak.com visit us at www.TBCak.com	The Boutet Company, Inc. 1508 E. Bogard Rd., Unit 7 Wasilla, Alaska 99654 Direct: 907.357.6760 Mobile: 907.830.2821 Main: 907.357.6770 Fax: 907.357.6750

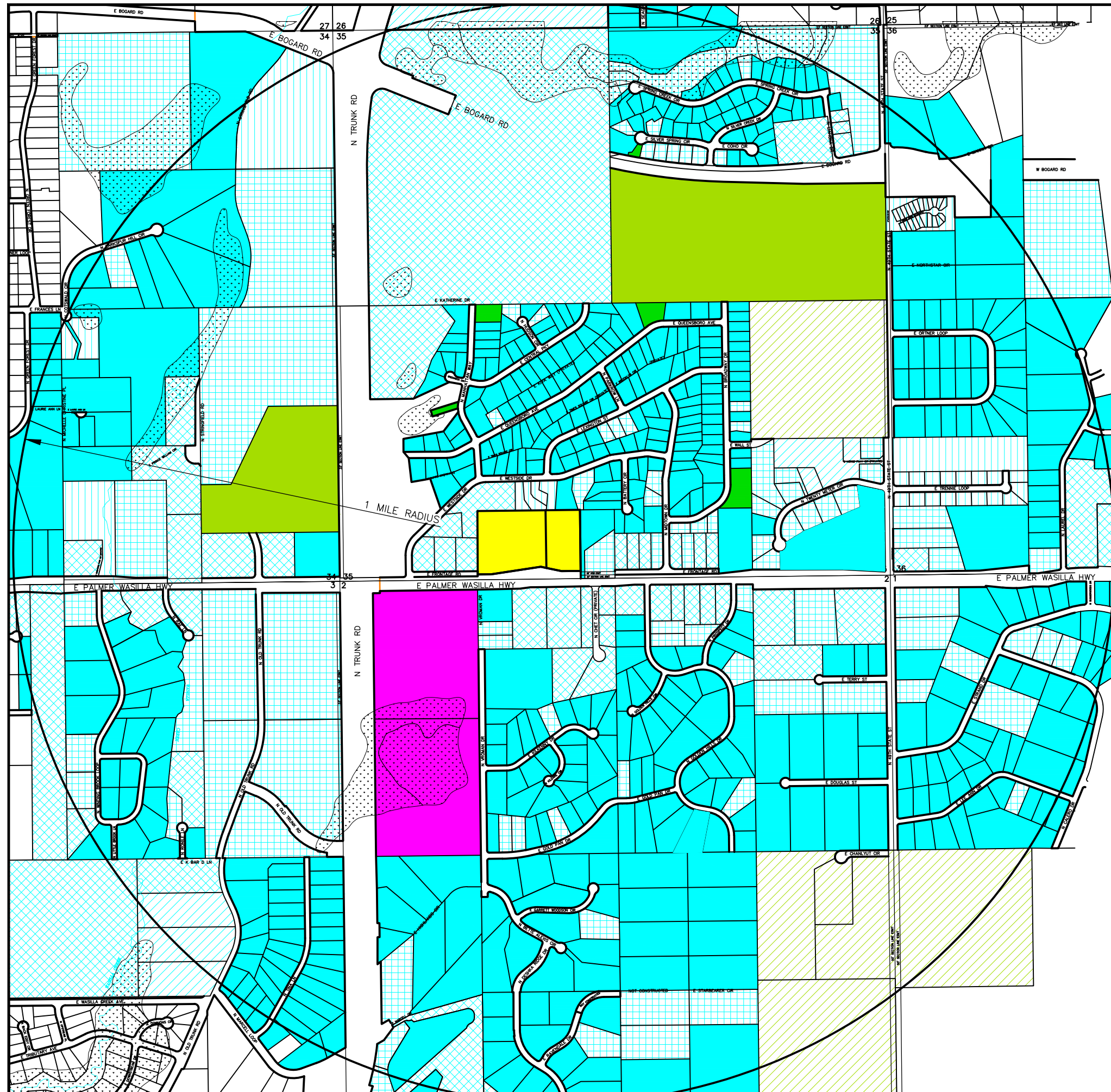
From: Peggy Horton <Peggy.Horton@matsugov.us>
Sent: Friday, June 28, 2024 10:28 AM
To: Tim Alley <talley@tbcak.com>
Subject: Mountain Gravel Extraction CUP

Hi Tim,













Can you provide me with a map showing where the scale and scale house will be? Can you confirm these items will be semi-permanent and not permanent structures? The setbacks need to be met for these types of structures, so that's why I'm asking.

Thank you,


Peggy Horton
Current Planner
907-861-7862

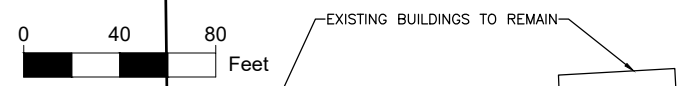
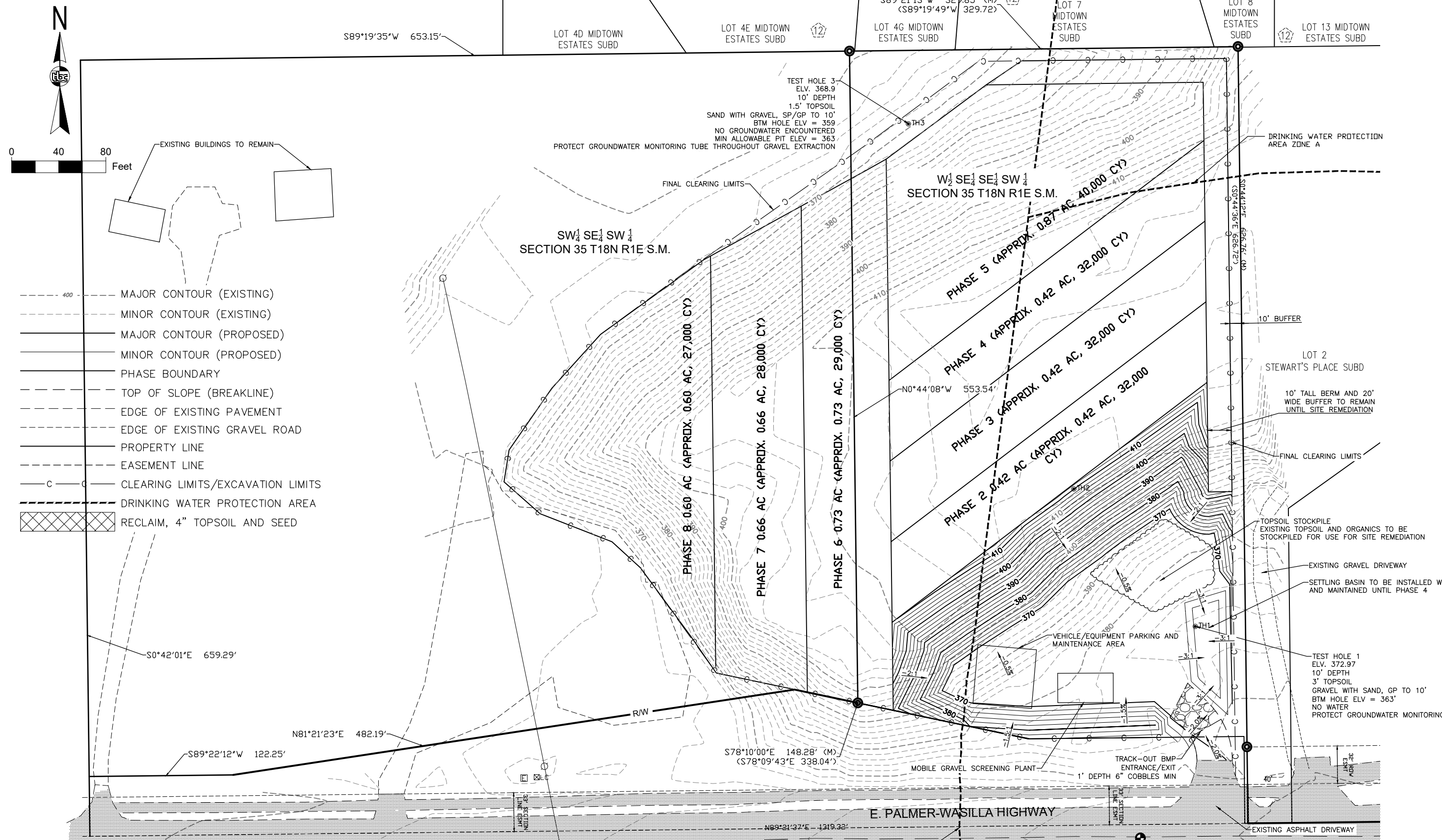


PROPERTY USE/OWNERSHIP LEGEND

-  PRIVATE - SINGLE FAMILY RESIDENCE
-  PRIVATE - MULTIFAMILY
-  PRIVATE - UNDEVELOPED
-  PRIVATE - AGRICULTURAL
-  PRIVATE - COMMERCIAL
-  PRIVATE - MAT-SU HEALTH FOUNDATION
-  PRIVATE - ALASKA NATIVE CORPORATION
-  PUBLIC - SCHOOL
-  PUBLIC - MAT-SU BOROUGH
-  UTILITY
-  WETLAND
-  PROPOSED PIT AREA
(8751 & 8901 E PALMER WASILLA HWY)



 The Boutet Company, Inc. 601 E. 57th Place #102 Anchorage, AK, 99518 Ph. 907-522-6776 License No. AECC957 CONSULTANT	MOUNTAIN GRAVEL PIT PALMER, ALASKA 8901 E. PALMER WASILLA HWY. GRAVEL EXTRACTION VICINITY MAP, PROPERTY OWNERSHIP AND USES EXHIBIT	
	HORZ SCALE: 1"=1000' VERT SCALE: N/A	DATE: 04/05/2024



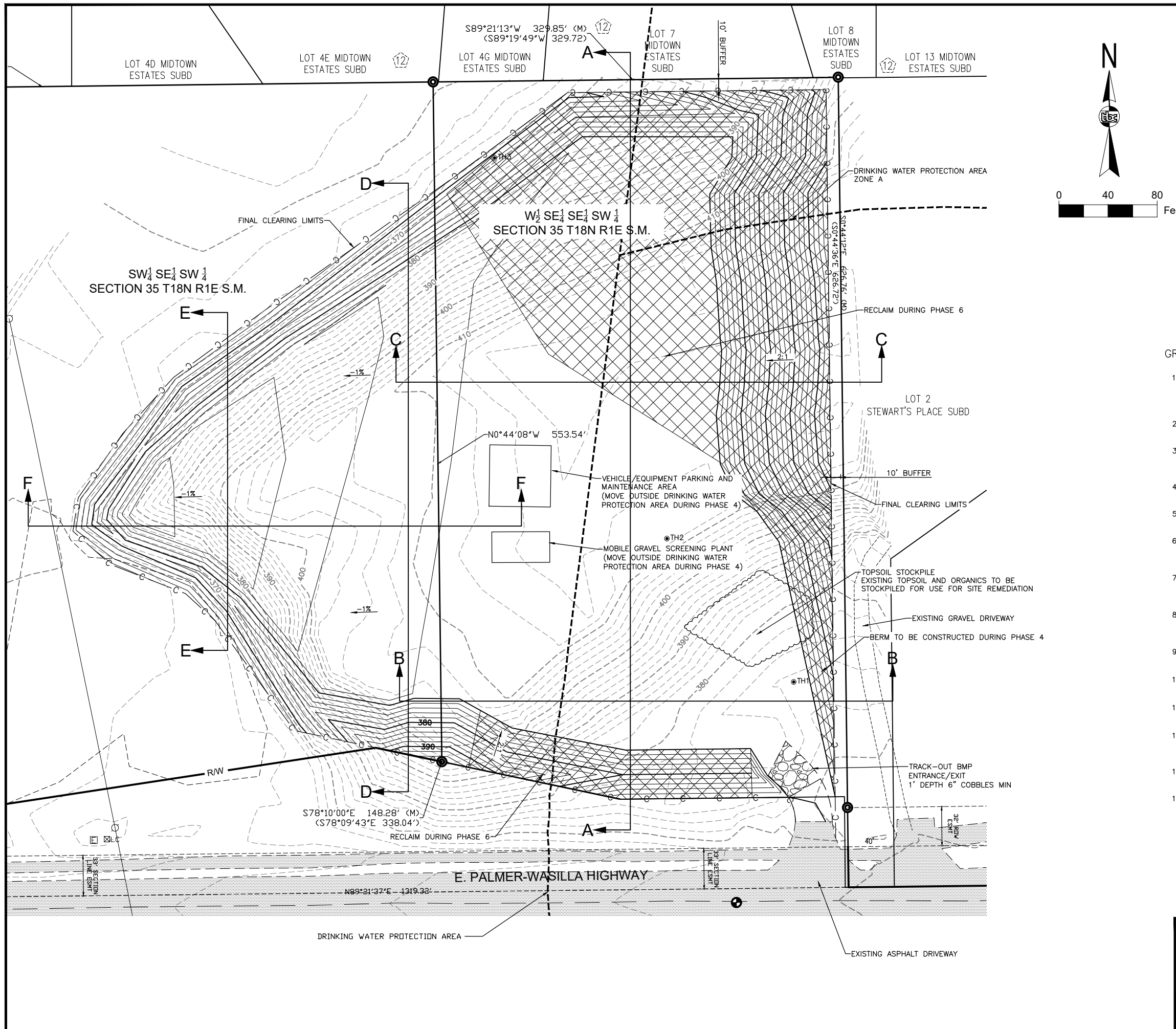
- 400 --- MAJOR CONTOUR (EXISTING)
- 380 --- MINOR CONTOUR (EXISTING)
- 360 --- MAJOR CONTOUR (PROPOSED)
- 340 --- MINOR CONTOUR (PROPOSED)
- PHASE BOUNDARY
- TOP OF SLOPE (BREAKLINE)
- EDGE OF EXISTING PAVEMENT
- EDGE OF EXISTING GRAVEL ROAD
- PROPERTY LINE
- EASEMENT LINE
- C --- CLEARING LIMITS/EXCAVATION LIMITS
- DRINKING WATER PROTECTION AREA
- RECLAIM, 4" TOPSOIL AND SEED

The Boutet Company, Inc.
601 E. 57th Place #102
Anchorage, AK, 99516
Ph. 907-522-6776
License No. AECC957
CONSULTANT

MOUNTAIN GRAVEL PIT
PALMER, ALASKA

**8901 E. PALMER WASILLA HWY.
GRAVEL EXTRACTION
PHASE 1 EXTRACTION**

HORIZ SCALE: DATE: 04/05/2024
VERT SCALE: SHEET 2 / 7



- 400 ----- MAJOR CONTOUR (EXISTING)
- MINOR CONTOUR (EXISTING)
- 400 ----- MAJOR CONTOUR (PROPOSED)
- MINOR CONTOUR (PROPOSED)
- PHASE BOUNDARY
- TOP OF SLOPE (BREAKLINE)
- EDGE OF EXISTING PAVEMENT
- EDGE OF EXISTING GRAVEL ROAD
- PROPERTY LINE
- EASEMENT LINE
- c ----- CLEARING LIMITS/EXCAVATION LIMITS
- DRINKING WATER PROTECTION AREA
- RECLAIM, 4" TOPSOIL AND SEED

GRAVEL EXTRACTION NOTES:

1. MOUNTAIN GRAVEL PIT LOCATED WITHIN T18N R1E SEC 35 LOT C6 AND C9 (8901 PALMER WASILLA HWY) WILL OPERATE YEARLY BETWEEN APPROXIMATELY JUNE 1 TO OCTOBER 31 DEPENDING ON SEASON WEIGHT RESTRICTIONS. HOURS OF OPERATION ARE TYPICALLY MONDAY THROUGH SATURDAY 7:00 AM TO 5:00 PM
2. LOT C6 AND C9 ARE 13.16 ACRES TOTAL AND GRAVEL EXTRACTION TO OCCUR OVER 5.98 ACRES
3. GRAVEL EXTRACTION TO OCCUR OVER 8-9 PHASES EXTRACTING APPROXIMATELY 30,000-40,000 CY PER PHASE. TOTAL EXTRACTION VOLUME IS ESTIMATED TO BE 285,000 CY. GRAVEL EXTRACTION ESTIMATED TO BE COMPLETED BY 2033.
4. CLEARING AND GRUBBING TO BE COMPLETED BY PHASE. EXISTING VEGETATION WILL BE MAINTAINED UNTIL PHASE IS DEVELOPED FOR EXTRACTION.
5. GRAVEL WILL BE SOLD TO CONTRACTORS FOR SELECT DEVELOPMENTS ONLY. PIT WILL NOT BE OPEN TO THE GENERAL PUBLIC.
6. EXISTING COMMERCIAL DRIVEWAY ONTO PALMER WASILLA HWY WILL BE USED AND MAINTAINED FOR ACCESS INTO THE SITE. ANTICIPATED TRAFFIC GENERATION IS ESTIMATED AT 20 VEHICLES PER HOUR MAXIMUM.
7. CLEARING LIMITS ALONG SHALL BE 10' FROM PROPERTY LINES MINIMUM. LIMITS SHALL BE RETAINED DURING THE DURATION OF PIT EXCAVATION AND RECLAMATION. THE TOP OF SLOPE IS PROVIDED TO PROTECT NEIGHBORING PROPERTIES FROM SLOPE EROSION.
8. A MINIMUM OF A 10' TALL BERM WILL BE CONSTRUCTED ALONG THE NEIGHBORING PROPERTIES AS THE PHASES ARE DEVELOPED. BERM WILL BE MAINTAINED WHERE EXCAVATED SLOPES ARE LESS THAN 10' UNTIL THE FINAL PHASE OF EXTRACTION AND RECLAMATION.
9. BERM ALONG WEST EDGE OF EXCAVATION SHALL REMAIN IN PLACE AFTER RECLAMATION TO PREVENT RUNOFF FROM LEAVING THE SITE
10. EXTRACTION WILL BE COMPLETED WITH A LOADER AND/OR EXCAVATOR. SITE GRADE WILL BE ESTABLISHED/MAINTAINED WITH A DOZER.
11. PROCESSING OF EXTRACTED MATERIAL TO INCLUDE SCREENING ONLY. NO CRUSHER, ASPHALT OR CONCRETE PLANTS ARE ANTICIPATED.
12. SITE SHALL BE KEPT CLEAR OF GARBAGE AND DEBRIS INCLUDING DERELICT/ABANDONED VEHICLES ENCOUNTERED DURING GRAVEL EXTRACTION OPERATIONS. HAUL TRASH AND DEBRIS TO MATANUKSA-SUSITNA CENTRAL LANDFILL FOR DISPOSAL.
13. SLOPES MAY BE EXCAVATED TO 1.5:1 MAXIMUM SLOPE BUT MUST BE BUILT BACK TO 2:1 AND RECLAIMED BEFORE SEASONAL CLOSURE.
14. PIT OPERATOR SHALL REDUCE TRACK-OUT MATERIAL ONTO PALMER-WASILLA HWY TO THE GREATEST EXTENT PRACTICABLE. DURING HAULING OPERATIONS SWEEP WITH WATER FOR DUST CONTROL, AS NEEDED TO REMOVE SILT, SAND AND GRAVEL FROM PALMER-WASILLA HWY. AT MINIMUM SWEEP EVERY 4 HOURS.

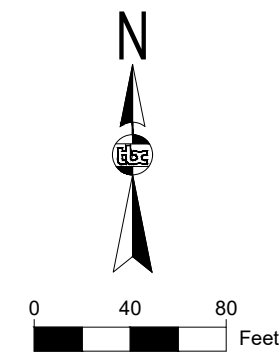
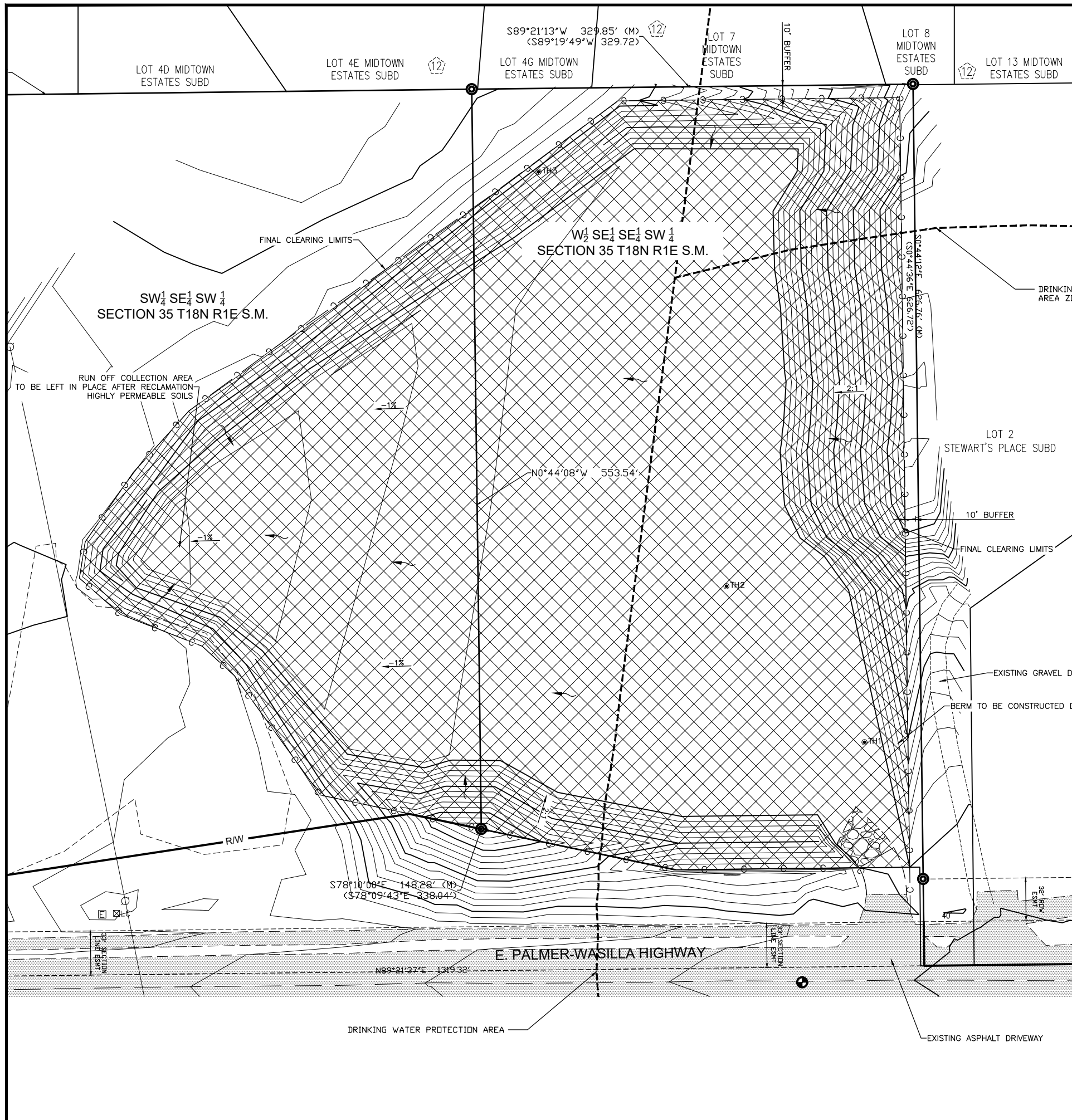
The Boutet Company, Inc.
601 E. 57th Place #102
Anchorage, AK, 99516
Ph. 907-522-6776
License No. AECC957
CONSULTANT

MOUNTAIN GRAVEL PIT
PALMER, ALASKA

**8901 E. PALMER WASILLA HWY.
GRAVEL EXTRACTION**

**GRAVEL EXTRACTION SITE PLAN
FINAL GRAVEL EXTRACTION**

HORIZ SCALE: DATE: 04/05/2024
VERT SCALE: SHEET 3 / 7



- 400 ----- MAJOR CONTOUR (EXISTING)
- MINOR CONTOUR (EXISTING)
- 400 ----- MAJOR CONTOUR (PROPOSED)
- MINOR CONTOUR (PROPOSED)
- PHASE BOUNDARY
- TOP OF SLOPE (BREAKLINE)
- EDGE OF EXISTING PAVEMENT
- EDGE OF EXISTING GRAVEL ROAD
- PROPERTY LINE
- EASEMENT LINE
- C ----- CLEARING LIMITS/EXCAVATION LIMITS
- DRINKING WATER PROTECTION AREA
- RECLAIM, 4" TOPSOIL AND SEED
- PROPOSED DRAINAGE ARROW

SITE RECLAMATION NOTES:

1. USE EXISTING OVERBURDEN TO EMBANK THE SLOPES TO 2:1 MINIMUM NOT TO EXCEED THE STABILITY OF THE SOIL TYPE.
2. EXISTING OVERBURDEN, GRUBBING AND TOPSOIL SHALL BE RETAINED, STOCKPILED AND STABILIZED FOR USE FOR RECLAMATION. SLOPES SHALL BE COVERED WITH 4" MINIMUM THICKNESS OF TOPSOIL AND HYDRAULICALLY SEEDED WITH MULCH.
3. PHASES SHALL BE RECLAIMED TO THE GREATEST EXTENT PRACTICABLE DURING THE FOLLOWING PHASE. AT MINIMUM, RECLAMATION SHALL BE COMPLETED BY PHASE WITHIN 4 GROWING SEASONS AFTER COMPLETION OF GRAVEL EXTRACTION OF EACH PHASE. (I.E. PHASE 1 2023 TO BE RECLAIMED DURING PHASE 2 DEVELOPMENT BUT NO LATER THAN 2027). ESTIMATED FINAL SITE RECLAMATION COMPLETE NO LATER THAN 2033.
4. EQUIPMENT AVAILABLE FOR RECLAMATION:

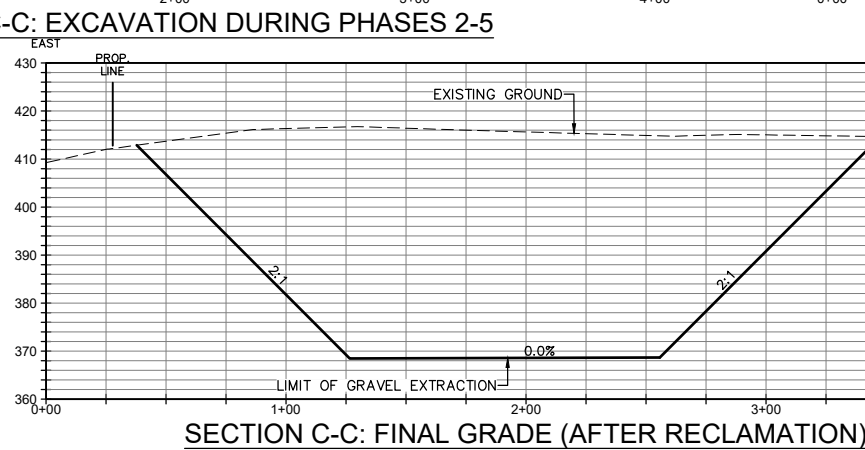
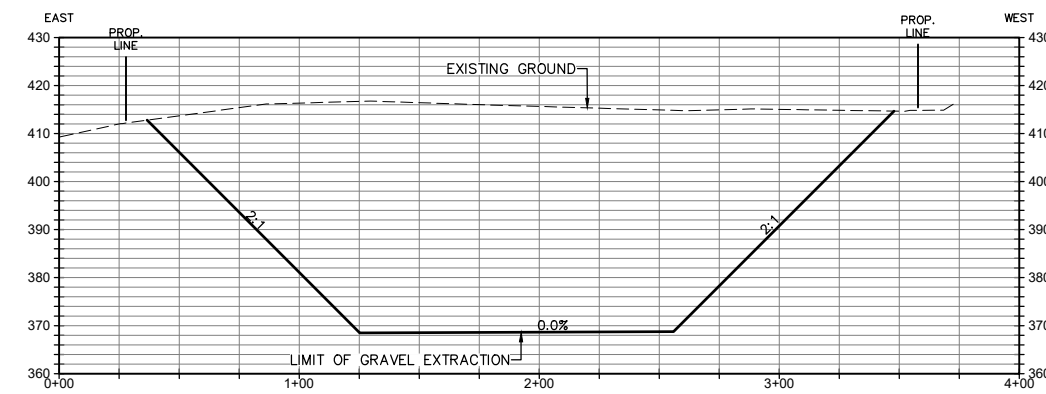
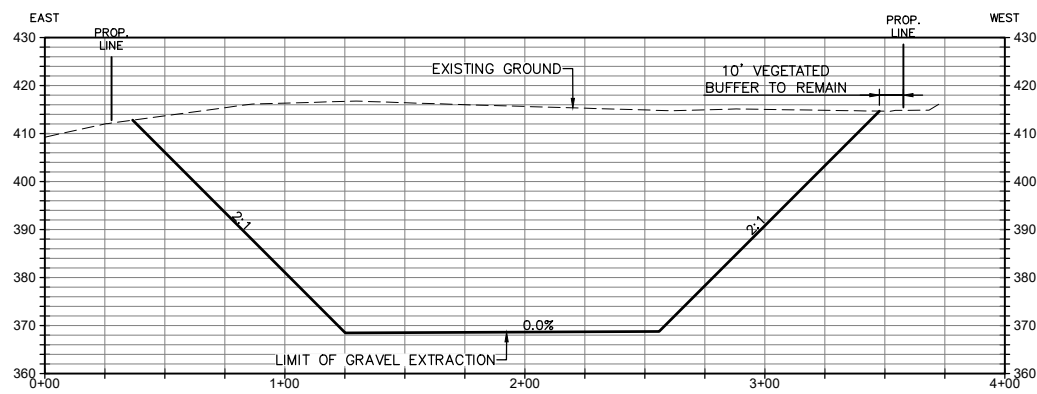
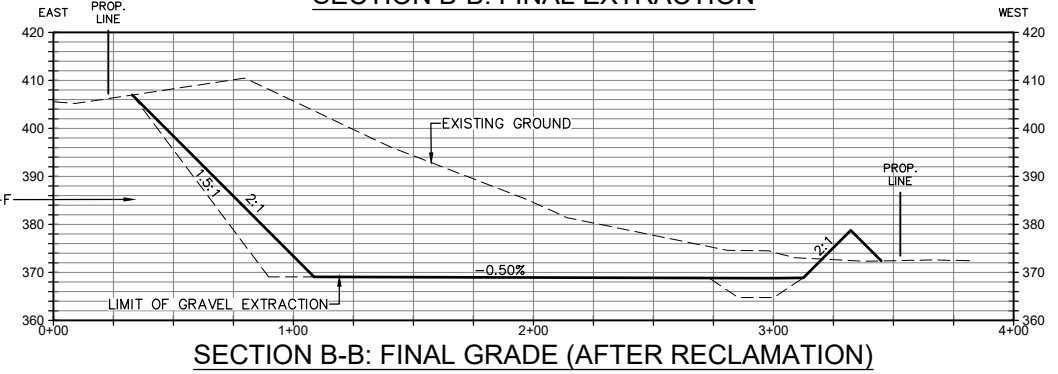
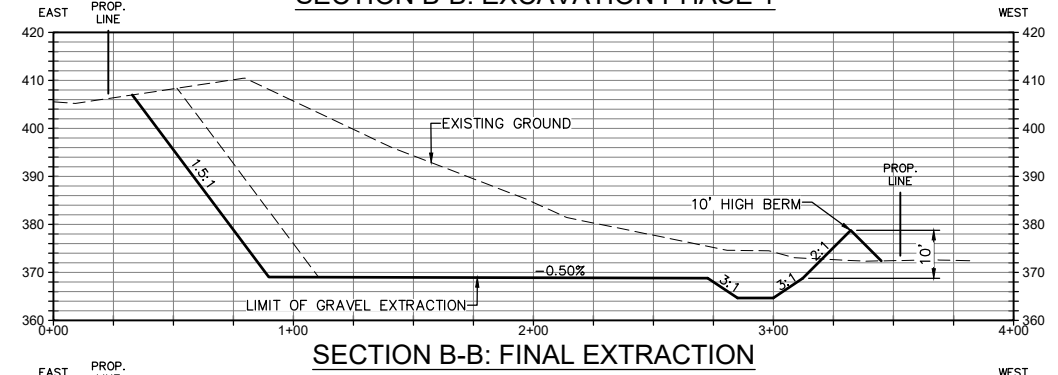
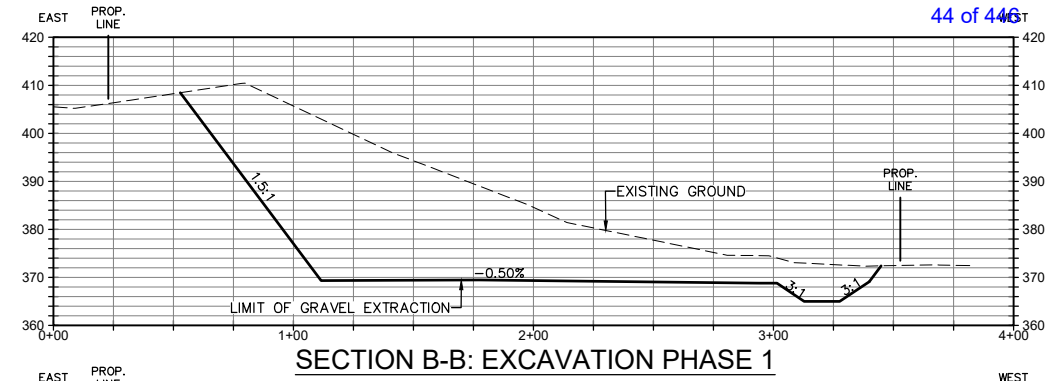
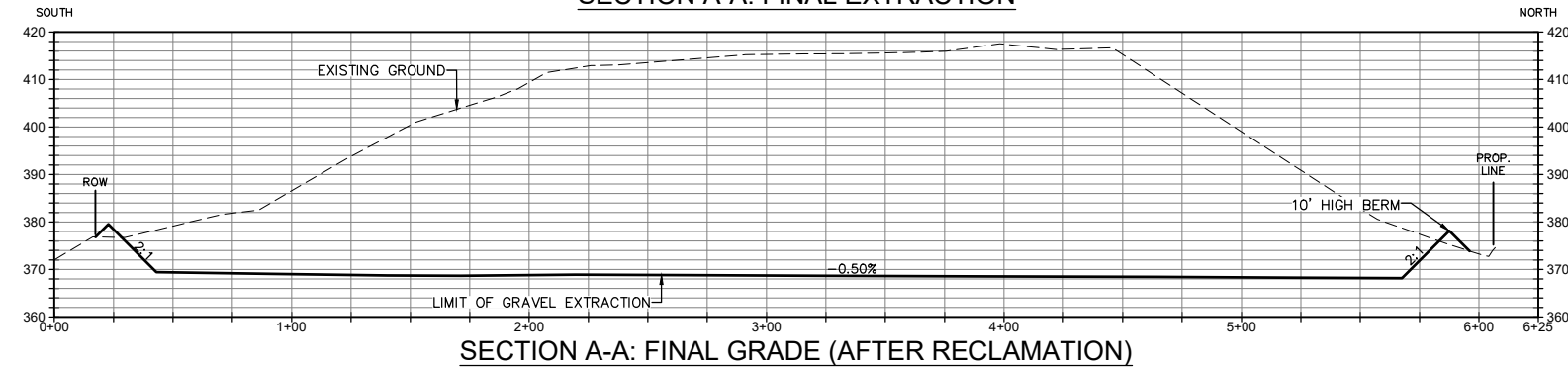
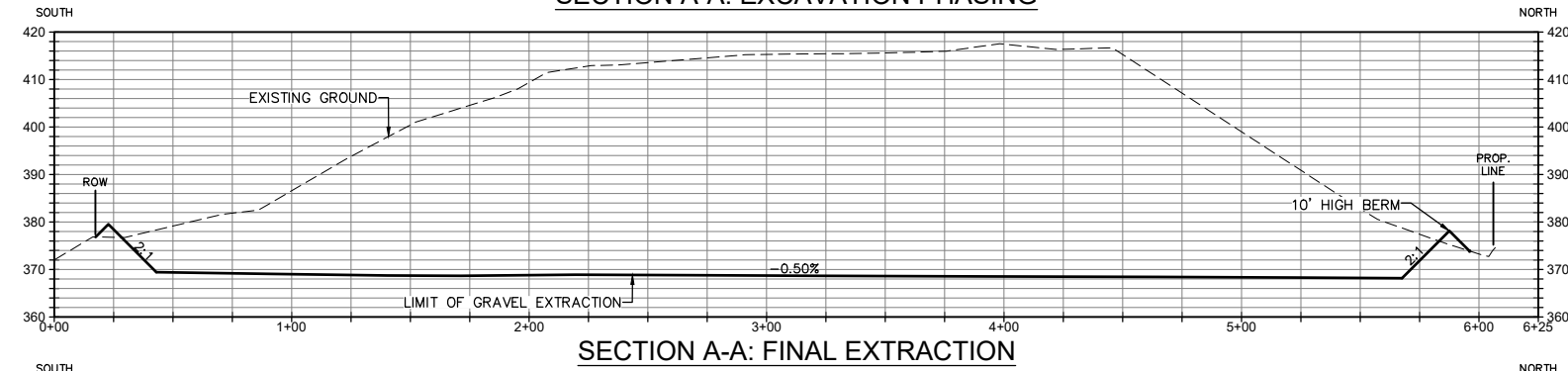
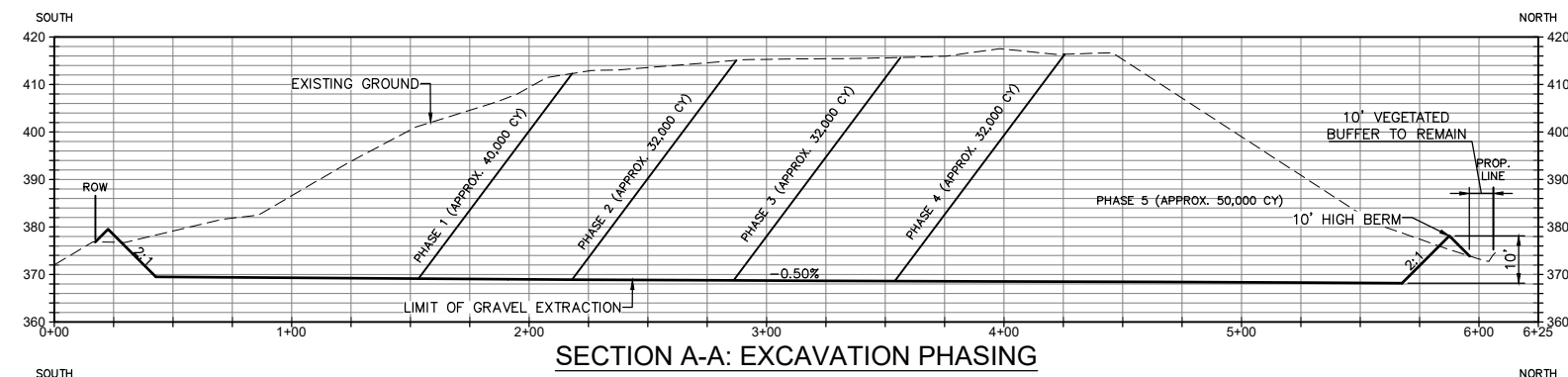
TYPE	QUANTITY
SKID STEER LOADER (BOBCAT S770)	1
WIDEPAD DOZER (KOMATSU D51P)	1
LOADER (CAT 966)	1
EXCAVATOR (HITACH 300LC)	1
HYDROSEEDER	1

The Boutet Company, Inc.
601 E. 57th Place #102
Anchorage, AK, 99518
Ph. 907-522-6776
License No. AECC957
CONSULTANT

MOUNTAIN GRAVEL PIT
PALMER, ALASKA

**8901 E. PALMER WASILLA HWY.
GRAVEL EXTRACTION
GRAVEL EXTRACTION SITE PLAN
FINAL RECLAMATION**

HORIZ SCALE: DATE: 04/05/2024
VERT SCALE: SHEET 4 / 7

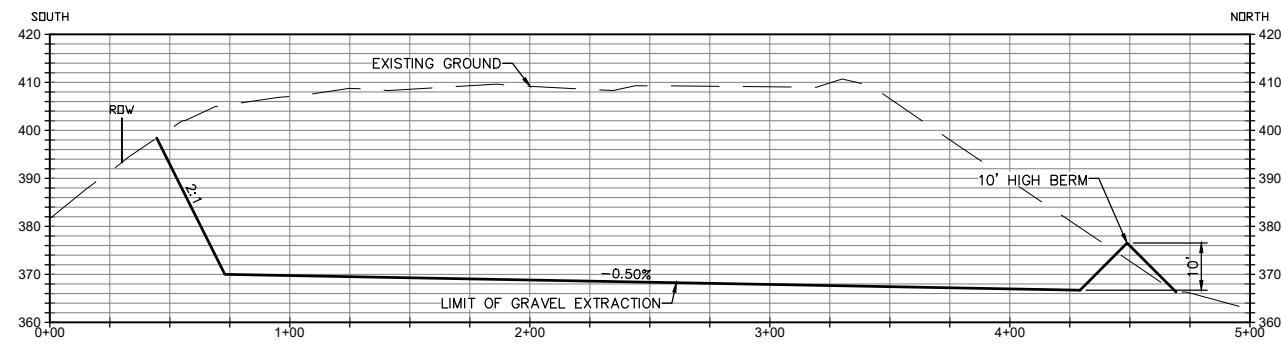


MOUNTAIN GRAVEL PIT
PALMER, ALASKA
**8901 E. PALMER WASILLA HWY.
GRAVEL EXTRACTION
CROSS SECTIONS**

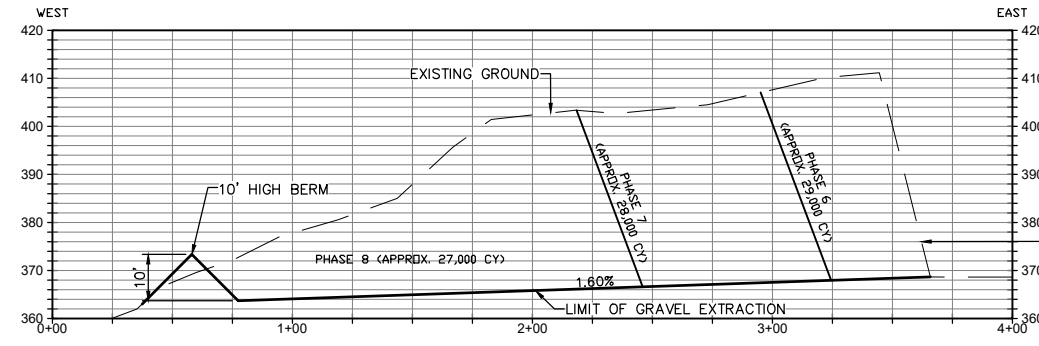
HORIZ SCALE: 1"=80'
VERT SCALE: 1"=40'

DATE: 04/05/2024

SHEET 5 / 7

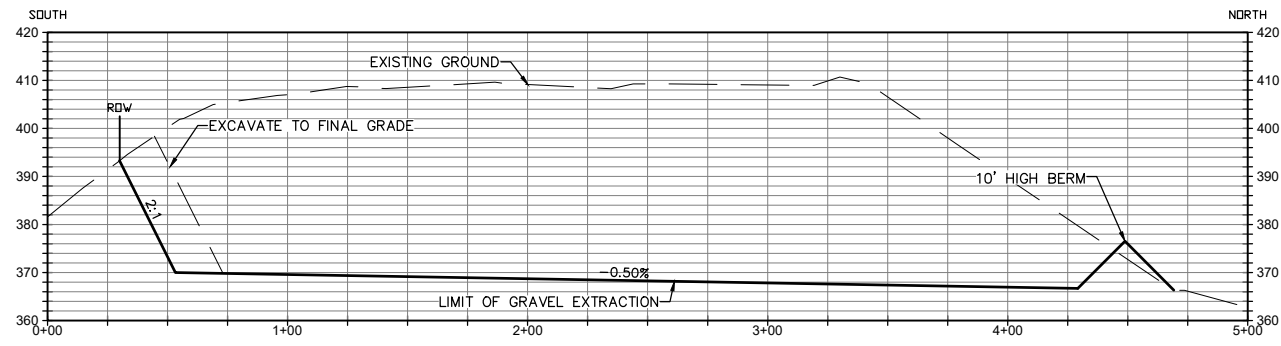


SECTION D-D: EXCAVATION PHASING

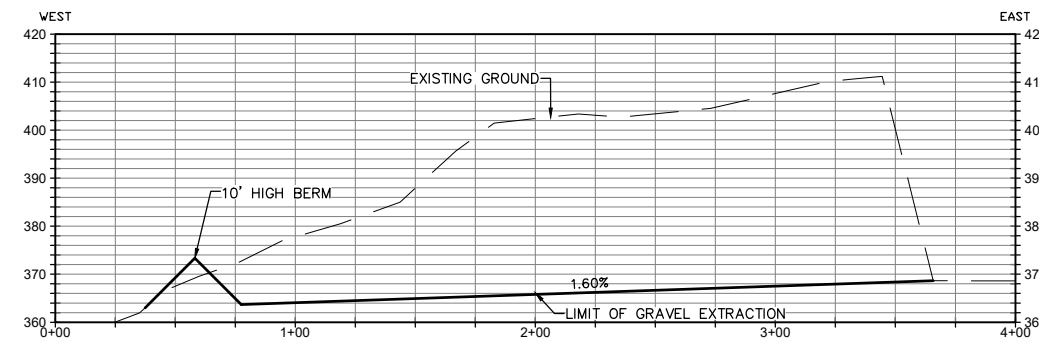


SECTION F-F: EXCAVATION PHASING

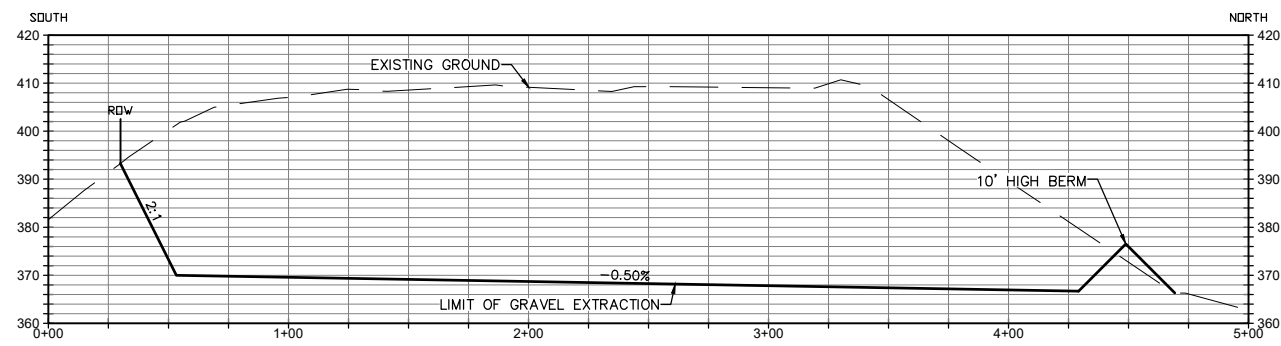
SECTION B-B
SEE PAGE 5



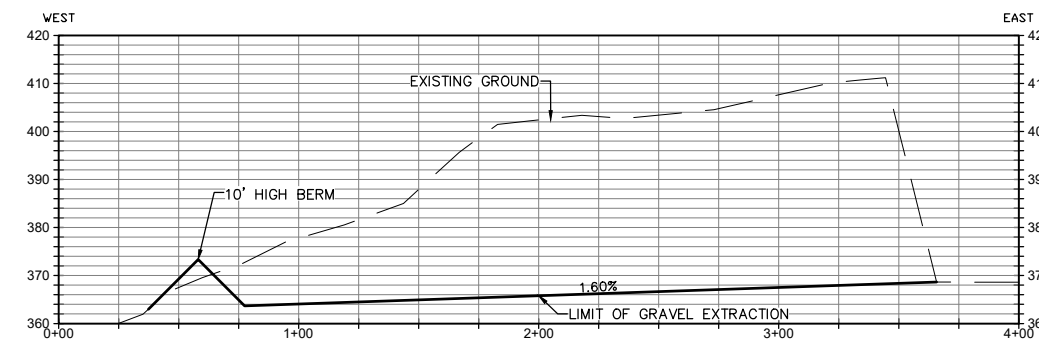
SECTION D-D: FINAL EXTRACTION



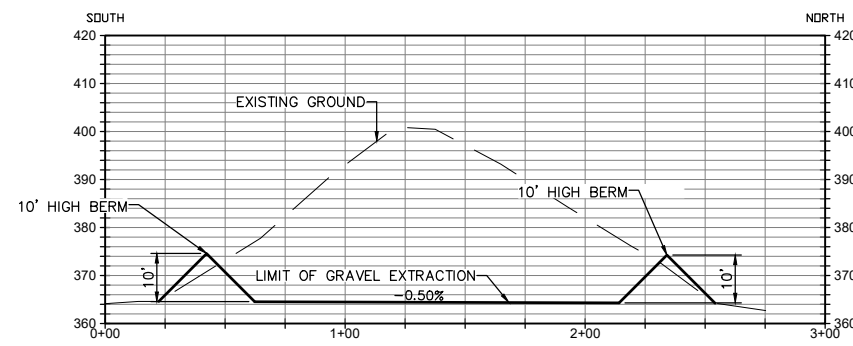
SECTION F-F: FINAL EXTRACTION



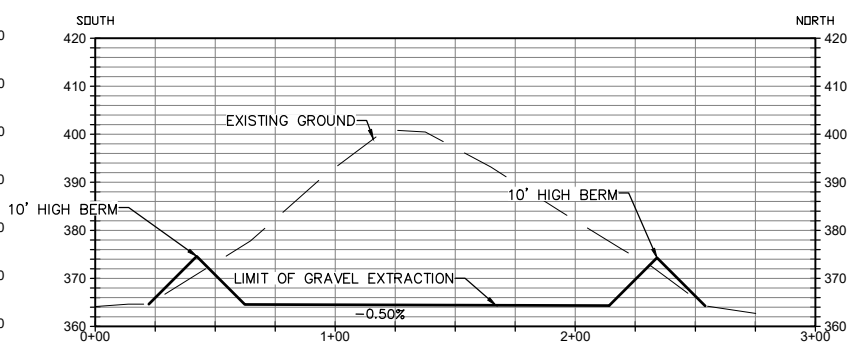
SECTION D-D: FINAL GRADE (AFTER RECLAMATION)



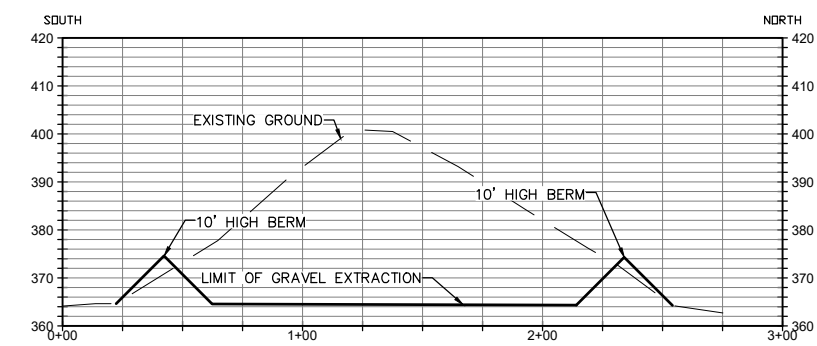
SECTION F-F: FINAL GRADE (AFTER RECLAMATION)



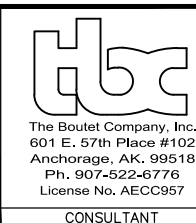
SECTION E-E: EXCAVATION PHASING



SECTION E-E: FINAL EXTRACTION



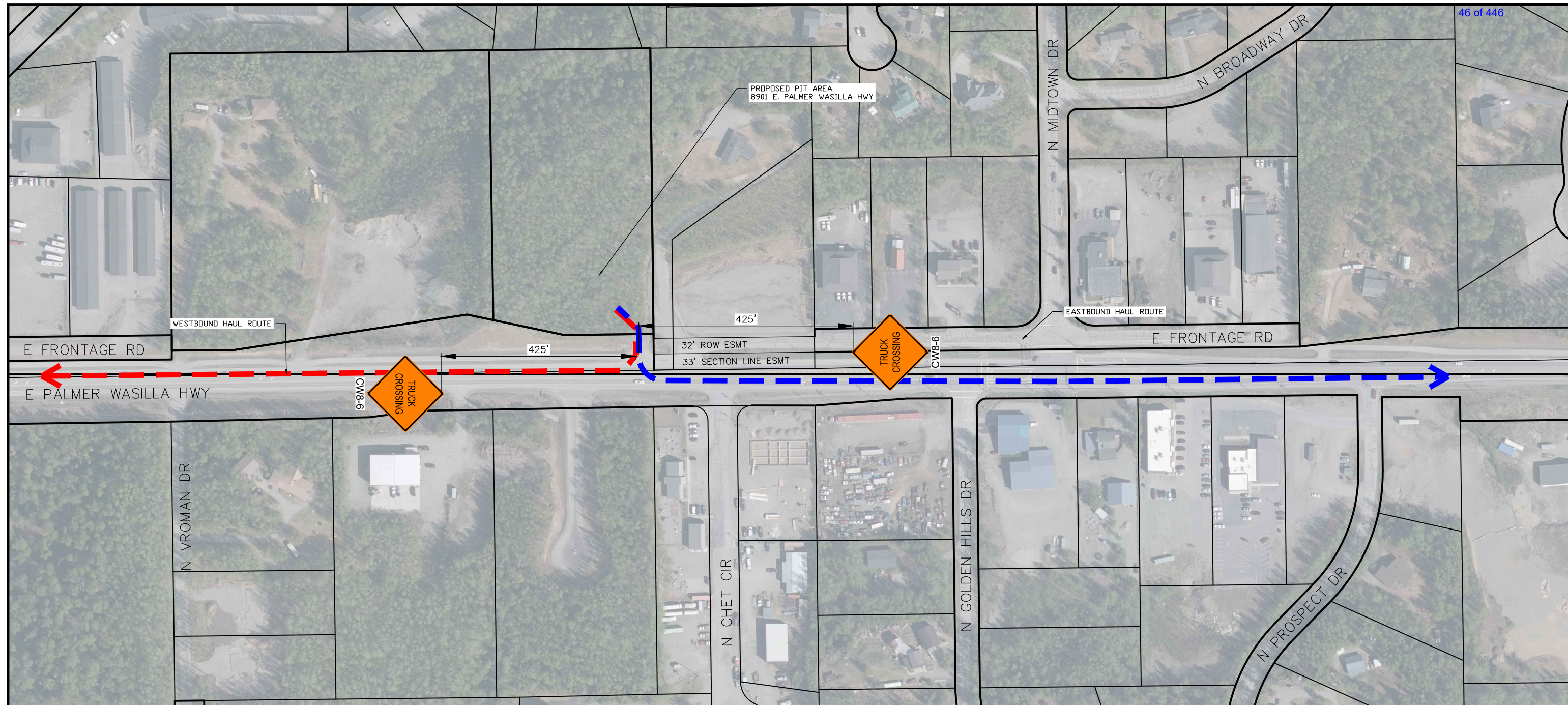
SECTION E-E: FINAL GRADE (AFTER RECLAMATION)



The Boutet Company, Inc.
 601 E. 57th Place #102
 Anchorage, AK, 99518
 Ph. 907-522-6776
 License No. AECC957
 CONSULTANT

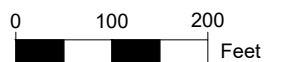
MOUNTAIN GRAVEL PIT
 PALMER, ALASKA
 8901 E. PALMER WASILLA HWY.
 GRAVEL EXTRACTION
 GRAVEL EXTRACTION
 CROSS SECTIONS

HORIZ SCALE:
 VERT SCALE: DATE: 04/05/2024



HAUL ROUTE AND TRAFFIC CONTROL NOTES:

1. TRAFFIC GENERATION FROM GRAVEL PIT EXTRACTION NOT EXPECTED TO EXCEED 25 VPH AT ANY TIME.
2. PIT HOURS OF OPERATION ARE 0700-1700 MONDAY THROUGH SATURDAY. SEASONALLY BETWEEN JUNE 1 AND OCTOBER 31 OR AS ALLOWED BY ADOT & MSB SEASONAL ROAD WEIGHT RESTRICTIONS.
3. NO LEFT TURNS DIRECTLY FROM AND TO SITE DURING PEAK TRAFFIC HOURS (DAILY FROM 0600-0800 AND 1200-1800) AND WHEN TRUCK TRAFFIC DURING HAULING IS GREATER THAN 10 TRUCKS PER HOUR.
4. ADVANCE WARNING SIGNS (CW8-6: TRUCK CROSSING) SHALL BE INSTALLED BEFORE HAULING OPERATIONS OF MORE THAN 10 TRUCKS PER HOUR.
5. PIT OPERATOR SHALL MAINTAIN/SWEEP DRIVEWAY APPROACH AND HAUL ROUTES WHILE TRUCKS ARE HAULING TO/FROM PIT.



<p>The Boutet Company, Inc. 601 E. 57th Place #102 Anchorage, AK, 99518 Ph. 907-522-6776 License No. AECC957</p>	MOUNTAIN GRAVEL PIT PALMER, ALASKA	
	8901 E. PALMER WASILLA HWY. GRAVEL EXTRACTION	
	HAUL ROUTE AND TRAFFIC CONTROL	
CONSULTANT	HORZ SCALE: 1"=200' VERT SCALE: N/A	DATE: 04/05/2024
		SHEET 7 / 7



January 15, 2024

Mr. Tim Alley, P.E.
TBC, Inc.
1508 E. Bogard, Unit 7
Wasilla, Alaska 99654

RE: HYDROGEOLOGIC EVALUATION MOUNTAIN GRAVEL PIT, 8901 PALMER-WASILLA HIGHWAY, ALASKA

We understand that you prepared a Conditional Use Permit (CUP) application to extract gravel from the above property. We understand that the delineated groundwater protection area for Rays Child Care Learning Center extends onto the planned mining area. The purpose of this letter is to address Item 4.b in the Matanuska-Susitna Borough's (MSB's) August 29, 2023 Request for Information letter. Specifically, the MSB requests that a hydrogeologist evaluate potential impacts to public water supply wells where mining activities will occur in the groundwater protection area for the public water supply well. This evaluation is recommended in the Alaska Department of Environmental Conservation's (ADEC's) Best Management Practices for Gravel/Rock Aggregate Extraction Projects.

We have reviewed the grading plans for the project dated June 7, 2023 and the well log for the nearby public water supply well which were both provided by you. We understand that the purpose of the gravel mining is to remove a hill on the subject property to establish a developable area at approximately the same elevation of the Palmer-Wasilla Highway and Rays Child Care Learning Center site.

Based on the well log for the public water supply well, groundwater is extracted through perforations in the casing located between 122 and 131 feet below ground surface (bgs). According to the log, the static water level on July 4, 1986 is 65 feet bgs. The drillers log

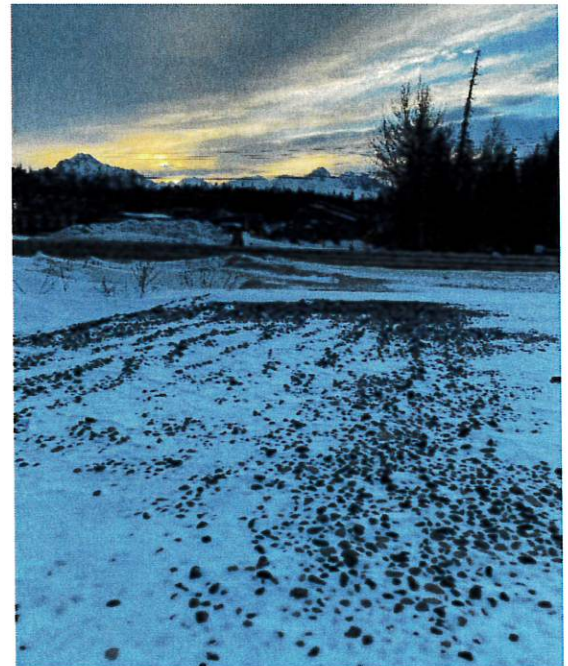


Photo 1. Looking south from approximate floor of the gravel pit towards Rays Child Care Center.

Mr. Tim Alley, P.E.
TBC, Inc.
January 15, 2024
Page 2 of 4



indicates sand and gravel was encountered to a depth of 23 feet bgs. Below this depth, layers of clayey sand or gravel are described to a depth of 120 feet bgs. A thin (less than 2 foot) layer of sand and gravel with water is identified at 58 feet bgs. Given where the aquifer was encountered, and the static water level approximately 40 feet higher, it appears that the aquifer is confined. Geologically these soils appear to be glacial or fluvial outwash materials in the upper 23 feet and glacial till to a depth of 120 feet bgs. The aquifer materials appear to be an outwash deposit on top of bedrock at 140 feet bgs.

Given the horizontal distance between the gravel extraction and the water supply well, and the presence of over 100 feet of relatively impermeable soil between the final elevation of the extraction area and the aquifer, in our opinion it is unlikely that normal gravel extraction activities will have a negative impact on the water quality in the well at Rays Child Care Learning Center.

While unlikely, it is possible that accidental releases of petroleum products (specifically diesel fuel) could impact the public water supply well if the release was large enough. To minimize this risk we recommend implementing the following BMPs.

- Do not store petroleum products in quantities larger than 55-gallons within the groundwater protection area.
- Store all petroleum products at the site within a secondary containment feature (duck pond, lined containment berms, double-wall tanks, etc.).
- Observe all maintenance and refueling activities, promptly clean up any drips, and report all spills to ADEC in accordance with their reporting requirements.

CLOSURE

This report was prepared for the exclusive use of TBC and its representatives in the study of this site. The findings we have presented within this report are based on the limited review that we conducted. They should not be construed as definite conclusions regarding the groundwater quality near the site. The interpretations can only provide you with our professional judgment as to the geotechnical characteristics of this site under the proposed gravel extraction operations. Changes in site conditions can occur over time, due to natural forces or human activity. Because of such changes beyond our control, our observations and interpretations may need to be revised.

Mr. Tim Alley, P.E.
TBC, Inc.
January 15, 2024
Page 3 of 4

SHANNON & WILSON

Shannon & Wilson has prepared the documents in Attachment 1, "Important Information About Your Geotechnical/Environmental Report", to assist you and others in understanding the use and limitations of our report. We appreciate this opportunity to be of service and look forward to completing this project. If you have any questions or comments, please contact the undersigned.

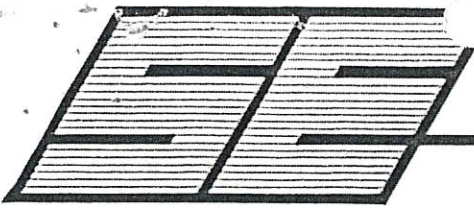
Sincerely,

SHANNON & WILSON
AEC C125



Stafford Glashan, P.E.
Senior Engineer III

Enc. Well log for Rays Child Care Center, Attachment 1



Silvers Engineering

ENGINEERS PLANNERS & SURVEYORS

P. O. BOX 2749 PALMER, ALASKA 99645

Alaska Dept. of Environmental Conservation
P.O. Box 871064
Wasilla, Alaska 99686-9998

Attn: Paul Pinard

Subject: Class B Public Water System and Septic System
Day Care Center Lot 1, Laura-A Subdivision

Dear Mr. Pinard:

The following information on the subject water system is submitted to you for your review and approval:

1. Well log (attached).
2. Twenty-four hour well test record (attached).
3. Pump and pressure tank information (attached).
4. Demand and storage computations (attached).
5. The system operating pressure range is 30 psi to 50 psi.
6. According to the owner/builder the waterline has at least 12 feet of cover.
7. There are no sources of possible contamination apparent within the 200 foot protective radius (see attached record drawing).
8. The 200 foot radius does not cause any adjacent lot to become unuseable due to loss of possible septic system or building sites.
9. The owner shall provide the results of chemical and physical analysis under separate cover.
10. A negative coliform test report is attached.
11. The system configuration is as follows: A 3 HP Grundfos model SP 4-26 pump is set at 111 feet below the top of casing. The water is routed via pitless adapter through a 2" copper waterline to the building. In the basement pressure regulation and necessary storage for pump cycling control are provided by 4 State model PMD96 hydropneumatic tanks. The total gross volume is 384 gal. and the useable volume is 96 gal. , assuming a 0.25 acceptance factor. $\frac{30}{50} = e = .31$ $V_c = .31 \times 384 = 119 \text{ gal}$
12. The well installation meets all applicable requirements of 18AAC 80.020 (b) (1-7).

RECEIVED
SEP 10 1986

Environmental Conservation

In addition to the above a stamped lot as-built and a stamped septic system record drawing are provided. The septic system was designed by others with installation inspection provided by us.

Due to the simplicity of the systems involved we hope that the review may proceed rapidly and that an approval to operate will be issued in the near future.

If you have any questions please contact Mike Cutter at this office.

Sincerely,



Gary J. Silvers



RECEIVED
SEP 10 1986

Environmental Commission

PALMER WASILLA HWY

L = 139.49
R = 22853.31

WAIVER 77-90 W

N00°05'10"W

589.99'

RECEIVED
10 1986

ronmental C. vation

LOT 1

154,355 ±
3.54 AC.

329.82'
N89°57'43"W

BIT OF ERIN SUB TR. A-1

NOTE: Under no circumstances should any data hereon be used for construction or for establishing boundary or fence lines.

1"=100'



AS-BUILT

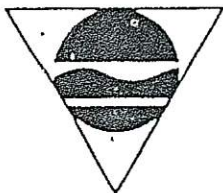


WO 86-05110 DATE 8-18-86 SCALE 1"=100' DRN. & CHKD BY

I hereby certify that I have performed a Mortgagee's inspection on the following described property: LOT 1 LAURA A SUBD. PLAT 86.77

Easements of record other than those shown on the recorded plat, are not shown hereon.

Dated at Wasilla, Alaska. This 18th day of August 1986



MAT-SU TEST LAB, INC.

Soils — Concrete — Water
Field and Laboratory Testing Services

**COPIES
MADE**

P.O. Box 871868 • Wasilla, Alaska 99687 • (907) 376-3005

DRINKING WATER ANALYSIS FOR TOTAL COLIFORM BACTERIA

APPLICANT INFORMATION:

Name: Chester B. Anderson
Mailing Address: PO Box 1149
Palmer, Ak. 99645

Phone: 376-5940
State I. D. No.: _____

Sample Information:

Legal Description: Laura A Anderson Subdivision, Lot 1

Date Collected: Aug. 12-86 Time Collected: 1:10 Collected By: Diana

Sample Type: Routine Check Sample Treated Untreated **BAILED FROM WELL**

THIS SECTION TO BE COMPLETED BY LAB

ANALYSIS RESULTS

- Satisfactory
- Unsatisfactory
- Sample Rejected: over 48 hours in transit. Please Resample.

Final Membrane Filter Results: 0 Colonies/100ml
No. of Positive Tubes from five 10 ml Portions; NA; MPN: NA per 100 ml
Date Analysis Completed: 8-13-86 Reported By: B. Quitsch

MICROBIOLOGY LABORATORY RECORD—COLIFORM ANALYSIS

Date Received: 8-12-86 Time Received: 1:25 pm Lab Number: 862164
Date Test Started: 8-12-86 Time Test Started: 1615 Analyst: Cra

TEST METHOD	TEST RESULTS	DATE/TIME/ANALYST
Membrane Filter (MF)	Direct Count: <u>0</u> Colonies/100 ml Verification: LTB _____, BGB: _____	<u>8-13-86 1610 BCQ</u>
Presumptive (LTB)	Tube #	
	24 Hr.	
	48 Hr.	
Confirmatory (BGB)	Tube #	
	24 Hr.	
	48 Hr.	
Completed Tested	Plate #	
	EMB 24 Hr.	
	Tube #	
	LTB 48 Hr.	

RECEIVED
SEP 10 1986

WATER WELL RECORD

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

Division of Geological & Geophysical Surveys

LOCATION OF WELL (Please complete either 1a, 1b or 1c.)

Drilling Permit No. _____

A.D.L. No. _____

1a. Borough Mat-Su	Subdivision	Lot	Block	1b. 1/4 qtrs. — of — of — of —	Section No.	Township N <input type="checkbox"/> S <input type="checkbox"/>	Range E <input type="checkbox"/> W <input type="checkbox"/>	Meridian
------------------------------	-------------	-----	-------	-----------------------------------	-------------	---	--	----------

1c. DISTANCE AND DIRECTION FROM ROAD INTERSECTIONS

Street Address and Area of Well Location

3. OWNER OF WELL:
CHESTER ANDERSON
Address:
P.O. BOX 1149
Palmer, AK 99645

2. WELL LOG Material Type	Feet Below Surface	
	Top	Bottom
ROCKS & SAND	0	23
HARD PAN	23	24
GRAVEL & WATER	24	26
Clay & GRAVEL	26	31
HARD PAN	31	34
Clay & GRAVEL	34	36
Rock Shelf	36	37
HARD PAN	37	58
GRAVEL & Silty Sand & WATER	58	60
Clay & SAND	60	80
Clay	80	105
Clay & GRAVEL	105	108
Rock Shelf	108	111
Clay & GRAVEL	111	113
Rock Shelf	113	114
Clay & Gravel	114	118
Rock Shelf	118	119
Clay & Gravel	119	120
SAND & WATER	120	122
GRAVEL & WATER	122	125
GRAVEL & SAND & WATER	125	128
GRAVEL & WATER	128	132
Heavy Gravel & WATER	132	140
Bedrock	140	

4. WELL DEPTH: (final) **134** ft.

5. DATE OF COMPLETION **7 - 4 - 86**

6. Cable tool Rotary Driven Dug
 Auger Jetted Bored Other:

7. USE: Domestic Public Supply Industry
 Irrigation Recharge Commercial
 Test Well Other:

8. CASING: Threaded Welded
diam. **6** in. to **134** ft. Depth Weight **17** lbs./ft.
diam. _____ in. to _____ ft. Depth Slickup **4** ft.

9. FINISH OF WELL:
Type: **PERFORATIONS** Diameter: **1/2" holes**
Slot/Mesh Size: **30 SHOTS** Length:
Set between **15 SHOTS @ 122** ft. and **125** ft.
Backfilling **15 SHOTS @ 122** ft. Gravel pack **131** ft.

10. STATIC WATER LEVEL: **65** ft. **7/4/86**
 Above or Below land surface Date
Equipment used: **well sounder**

11. PUMPING LEVEL below land surface and YIELD
129 ft. after **4** hrs. pumping **30** g.p.m.
_____ ft. after _____ hrs. pumping _____ g.p.m.

12. GROUTING Well Grouted: Yes No
Material: Neat Cement Other:

13. PUMP: (if available) HP _____
Length of Drop Pipe _____ ft. capacity _____ g.p.m.
 Subm. Jet Centrifical Other

14. REMARKS:



16. WATER WELL CONTRACTOR'S CERTIFICATION:

15. Water Temperature _____ °F 10 1986 C

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief;

Geo & Son WATER wells **AA-5632** Environmental Commission
Registered Business Name Contract License Number

Address: **JRA 6476 Palmer AK 99645**

Signed: **Terry Jones (Driller)** Date: **7-4-86**
Authorized Representative

USGS Local No.

MARTIN'S WATER WELLS
 SRA Box 6472-Q
 PALMER, ALASKA 99845
 907-888-1111 - Lic. - AAB632

SAMPLE DATA SHEET

(use continuation sheet for Class A & B)

PROJECT: CHILDRENS CARE & LEARNING CENTER DATE OF TEST: 7-22-86
 LOCATION OF WELL (Legal Description): PALMER, WASHILLA HY - 4 CORNERS
 WELL DEPTH: 131 FT. CASING: 131 FT SCREEN: -0-
 DATE DRILLING COMPLETED: 7-4-86 DRILLER: TEMY SONES
 STATIC WATER LEVEL (Top of Casing): 49 FT. FT DATE: 7-22-86

Clock Time	Elapsed Time Since Pumping Started/ Stopped, Min.	Depth to Water, ft.	Drawdown/ Recovery	Pumping Rate, GPM	Remarks
	0	(swl)	0	0	Start
5:30 pm	1	49 FT	0	35 G.P.M.	5:30 pm
	5				
5:45 pm	10	62 FT	15 FT	35 G.P.M.	
	15				
5:55	20	71 FT	9 FT draw	35 G.P.M.	
	25			35 G.P.M.	
6:05 pm	30	71 FT	-0-	35 G.P.M.	
	35				
6:15	40	71 FT	-0-	35 G.P.M.	
	45				
6:25 pm	50	71 FT	-0-	35 G.P.M.	
	55				
6:35	60 (1 hour)	69 FT	Recovery 3 FT	35 G.P.M.	
7:05	90	65 FT	Recovery 3 FT	35 G.P.M.	
7:35	120 (2 hours)	65 FT	-0-	35	
8:05	150	65 FT	-0-	35	
8:35	180 (3 hours)	66 FT	Recovery 5	40 G.P.M.	
9:05	210	66 FT	-0-	40 G.P.M.	
9:35	240 (4 hours)	66 FT	-0-	40 G.P.M.	
RECOVERY					
	t 0	t'		0	
	5			35	
6:40	10	63 FT	Recovery 3	35 G.P.M.	Recovery 3 G.P.M. 10 min
6:50	15	75 FT	1 3	35 G.P.M.	Recovery 3 G.P.M.
7:00	20	83 FT	Recovery 5	40 G.P.M.	Recovery 5 G.P.M. 20 min
	25				
	30				
	35				

RECEIVED

Sis: *[Signature]*
 t/t: *[Signature]*

Comments: well prof at 122 to 125 FT. 15 shots.
 And at 128 to 131 15 shots.
 well no no. related to the well the well is not

MARTIN'S WATER WELLS
 SRA Box 6472-G
 PALMER, ALASKA 99645
 745-3888 - Lic. - AA5632

WELLS CARE AND LEARNI

Clock	Elapsed Time Since Pumps Started and Stopped, min.	Depth to water Ft.	Drawdown + Recovery	Pumping Rate, S.g. m.
10:00 am	4 1/2 Hrs.	60 FT.	-0-	40 Gals per min
11:00 am	5 1/2 Hrs.	60 FT.	-0-	40 Gals per min
12:00 pm	6 1/2 Hrs.	70 FT.	10-	40 Gals
1:00 pm	7 1/2 Hrs.	70 FT.	-0-	40 Gals
2:00 pm	8 1/2 Hrs.	70 FT.	-0-	40 Gals
3:00 pm	9 1/2 Hrs.	70 FT.	-0-	40 "
4:00 pm	10 1/2 Hrs.	70 FT.	-0-	40 "
5:00 pm	11 1/2 Hrs.	70 FT.	-0-	40 "
6:00 pm	12 1/2 Hrs.	70 FT.	-0-	40 "
7:00 pm	13 1/2 Hrs.	70 FT.	-0-	40 "
8:00 pm	14 1/2 Hrs.	69 FT.	1+	40 "
9:00 pm	15 1/2 Hrs.	69 FT.	-0-	40 "
10:00 pm	16 1/2 Hrs.	68 FT.	1+	40 "
11:00 pm	17 1/2 Hrs.	68 FT.	-0-	40 "
12:00 am	18 1/2 Hrs.	68 FT.	-0-	40 "
1:00 am	19 1/2 Hrs.	67 FT.	1+	40 "
2:00 am	20 1/2 Hrs.	67 FT.	-0-	40 "
3:00 am	21 1/2 Hrs.	67 FT.	-0-	40 "
4:00 am	22 1/2 Hrs.	65 FT.	2+	40 "
5:00 am	23 1/2	64 FT.	1+	40 "
5:30 am	2 1/2	64 FT.	-0-	40 "

Total 24 Hrs,
 15 min to Dew. Pump to 49 FT Sta. Lev.

Sig Owner: Martins
 Water wells.

RECEIVED
 SEP 10 1986

RECEIVED
 SEP 10 1986

Environmental Commission

Environmental Commission

[Handwritten Signature]

WATER USE FOR CHESTER ANDERSON'S DAY CARE CENTER

BY TYPE - ASSUME EQUIVALENCY TO AN ELEMENTARY SCHOOL

RATE FROM DESIGN MANUAL IS 15 GAL/PERSON/DAY

50 CHILDREN = 750 GPD

$750 \div 300 = 2.5$ RESIDENTIAL EQUIVALENT = 20 GPM PEAK

BY FIXTURE

FIXTURE VALUE

FLUSH TANKS (4)

4x5 = 20

KITCHEN SINK

2

LAVATORY (3)

3x2 = 6

MOP SINK

2

WASHING MACHINE - 1/2" CONNECT

5

DRINKING FOUNTAIN

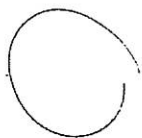
2

37

EQUIVALENT FLOW RATE = 31.5 GPM PEAK

THE FIGURE OF 29 GPM PEAK WAS USED AS A CONSERVATIVE COMPROMISE FIGURE.

Man



RECEIVED
SEP 10 1986
Environmental Conservation

CHESTER ANDERSON

PUMP / STORAGE COMPS

ASSUME PUMP DEPTH OF 130'
" SYSTEM PRESSURE OF 40 PSI

PUMP MODEL SP 4-26 3HP
OUTPUT @ 40 PSI AGAINST 240' = 25.1 GPM
" " 30 PSI " 200' = 27.05 GPM

ASSUME E = .25

$$V_t = \frac{15}{15 \times .25} \times 25.1 = 100.4 = 100 \text{ GAL PRESSURE TANK}$$

DEMAND BASIS

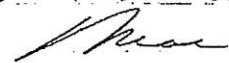
PEAK DEMAND FLOW MAINTAINED FOR 20 MIN

$$(29 - 25) \times 20 = 80 \text{ GAL}$$

$$80 \div 0.25 = 320 \text{ GAL GROSS PRESSURE TANK VOL}$$

OR 80 GAL USABLE STORAGE NON-PRESSURE

USE 20 MULTIPLIER RATHER THAN 150 AS BEING MORE CHARACTERISTIC OF NEEDS OF THIS INSTALLATION



RECEIVED
SEP 10 1986
Environmental Conservation

SP 4 Selection Charts

RATINGS ARE IN GALLONS PER HOUR (GPH)

SP 4-19 (2 HP)

SP 4-26 (3 HP)

MODEL
SP 4

NOM. FLOW RATE
20 GPM
FLOW RANGE
11 to 28 GPM
PUMP OUTLET
1 1/2" NPT

DEPTH TO WATER LEVEL (Feet)	PSI					GPH	PSI					GPH		
	0	20	30	40	50		0	20	30	40	50			
150					1659	180								
175					1666	171								
200				1673	1626	1577	163							
225			1637	1632	1585	1521	154				1669	227		
250		1643	1598	1540	1460	1360	137		1680	1674	1638	218		
275											1610	209		
300	1605	1549	1472	1374	1263	128			1647	1615	1578	211		
325	1656	1557	1483	1388	1278	1162	119		1656	1623	1589	192		
350	1617	1494	1402	1293	1178	1063	111				1545	183		
375														
400	1573	1415	1308	1193	1078	966	102		1627	1594	1552	175		
425	1515	1323	1208	1093	981	867	93	1666	1598	1558	1506	1442	166	
450	1441	1224	1108	996	882	751	85	1636	1564	1514	1451	1379	157	
475														
500	1352	1124	1011	898	770		76	1608	1521	1460	1389	1309	1226	148
525	1255	1026	913	789			67	1575	1469	1399	1320	1237	1152	140
550	1154	929	807				59	1535	1409	1331	1248	1164	1080	132
575														
600	1055	825	674				50	1486	1342	1259	1175	1091	1009	123
625	958	697					41	1428	1271	1186	1102	1020	938	114
650	858						33	1363	1197	1113	1030	949	864	106
675														
700	740						24	1293	1124	1041	960	876	782	97
725								1220	1052	971	887	795	683	88
750								1147	981	899	809	699		80
775														
800								1003	834	731				62
825								858						45
850								674						28

Friction losses in discharge pipe and fittings are not included in tables.

SP 4-36 (5HP)

SP 4-42 (5 HP)

DEPTH TO WATER LEVEL (in Feet)	PSI					GPH	PSI					GPH		
	0	20	30	40	50		0	20	30	40	50			
200					1659	288								
220					1662	279								
240				1666	1641	1617	270				1676	333		
260			1670	1644	1621	1596	262				1679	1655	324	
280		1674	1647	1624	1599	1571	253				1658	1637	315	
300		1650	1627	1603	1575	1542	244				1661	1640	307	
320		1630	1606	1579	1547	1509	236			1664	1643	1623	298	
340	1657	1609	1583	1552	1514	1471	227		1667	1645	1625	1605	1582	289
360	1636	1587	1556	1520	1477	1428	218		1648	1628	1608	1585	1559	281
380														
400	1616	1561	1525	1483	1435	1382	210	1674	1631	1611	1588	1563	1533	272
420	1594	1530	1489	1442	1389	1332	201	1654	1613	1592	1567	1537	1503	264
440	1569	1495	1448	1396	1340	1281	193	1636	1595	1570	1541	1508	1470	255
460														
480	1540	1455	1404	1348	1289	1228	184	1619	1574	1546	1513	1476	1434	246
500	1506	1411	1355	1297	1236	1175	175	1601	1549	1517	1481	1440	1395	238
520	1468	1363	1305	1244	1183	1122	167	1580	1522	1486	1445	1401	1353	229
540														
560	1425	1313	1253	1191	1130	1070	158	1557	1491	1451	1407	1360	1310	220
580	1378	1261	1200	1139	1078	1019	149	1531	1457	1413	1366	1317	1265	212
600	1328	1208	1147	1086	1027	968	141	1501	1419	1373	1323	1272	1220	203
620														
640	1277	1155	1094	1035	976	916	132	1468	1379	1330	1279	1227	1175	194
660	1224	1102	1043	984	924	863	123	1431	1337	1286	1234	1182	1129	186
680	1171	1050	991	932	871	804	115	1392	1293	1241	1188	1136	1085	177
700														
720	1118	999	940	879	814	738	106	1350	1248	1195	1143	1091	1040	168
740	1066	948	888	823	749		97	1306	1202	1150	1098	1047	997	160
760	964	841	770	686			80	1216	1112	1061	1010	960	908	142
780														
800	858	710					63	1126	1023	973	922	869	812	125
820	733						45	1037	936	884	828	766	695	108
840								949	843	783	715			90
860														
880								858	734					73
900								753						56

Friction losses in discharge pipe and fittings are not included in tables.



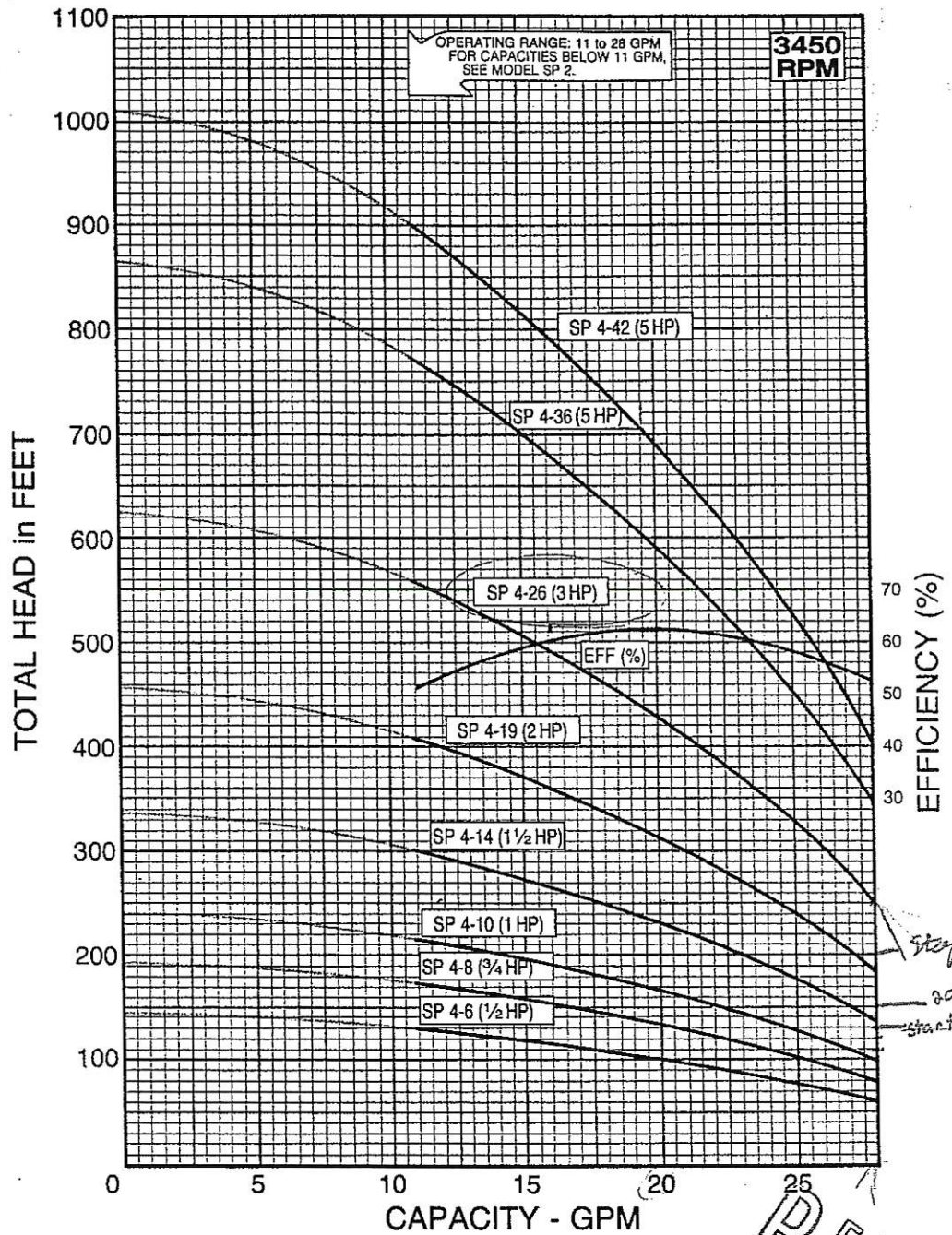
RECEIVED
SEP 10 1986
Environmental Conservation
12

MODEL
SP 4

NOM. FLOW RATE
20 GPM
FLOW RANGE
11 to 28 GPM
PUMP OUTLET
1 1/2" NPT



Performance Curves



DIMENSIONS AND WEIGHTS

MODEL NO	HP	LENGTH (L)	APPROX. UNIT SHIPPING WT. (LBS.)
SP 4-6	1/2	22 7/8"	28
SP 4-8	3/4	25 3/4"	33
SP 4-10	1	28 1/2"	38
SP 4-14	1 1/2	34 1/8"	47
SP 4-19	2	43 1/2"	59
SP 4-26	3	51 3/4"	78
SP 4-36	5	65 1/2"	104
SP 4-42	5	65 1/2"	116

Specifications are subject to change without notice.

RECEIVED
1986
Conservation

1000
1000
1000

1000
1000

INVOICE
313908 PAGE 1

DELIVERY DATE
07-16-86

ACCOUNT NUMBER
EASH

1000
1000

1000
1000

CK 1165

1000

DELIVERY TICKET = 369198

	PRICE	DISC.	NET
GRUNDIGS	957.57	0	957.5
GRUNDIGS			
MERCHANDISE TOTAL =			957.57
PAY THIS AMOUNT			957.5

IF ORDERED BY THE BUYER, YOU MAY INSPECT (8.00)
 IF ORDERED BY THE BUYER, YOU WILL RECEIVE (8.00) & A COPY OF THIS INVOICE.)
 ALL PAYMENTS MAY BE RECEIVED WITHIN 30 DAYS OF INVOICE DATE.
 (PLEASE REFER TO THE PACKAGING CHARGE.)
 ALL ITEMS ARE SUBJECT TO THE WARRANTY POLICY PUBLISHED BY MANUFACTURER)

Extra -
non included in
contract

RECEIVED
SEP 10 1986
Environmental Conservation

KENAI SUPPLY INC.
P. O. BOX 1729
KENAI, AK
99611

WHSE # 3
WASILLA BRANCH

INVOICE
315352 PAGE 1

DELIVERY DATE
07-19-86

ACCOUNT NUMBER
CASH

SOLD:
TO

Anderson

SHIP:
TO

Cash

OK# 1167

CUST. PO=
TERMS = NET

SLSMN =081

DELIVERY TICKET = 369733

QTY ORD	QTY SHP	QTY B/O	STOCK NUMBER	DESCRIPTION	PRICE	DISC	NET
126	126		9010180	2" X 21 GALV SCH 40 T&C A120	1.34	0	168.84
3	3		9122302	PMD-96 ST. 96G 29.7GDD EXP T5Y	255.73	0	767.19

MERCHANDISE TOTAL = 936.03

PAY THIS AMOUNT 936.03

IF PAID WITHIN OUR TERMS, YOU MAY DEDUCT 0.00

(NO MAT'L MAY BE RETURNED WITHOUT OUR PRIOR APPROVAL & A COPY OF THIS INVOICE.)

(NO MATERIAL MAY BE RETURNED AFTER 30 DAYS OF INVOICE DATE)

(THERE WILL BE A 15% RESTOCKING CHARGE.)

(KENAI SUPPLY LIMITS WARRANTY OF MERCHANDISE TO THAT PUBLISHED BY MANUFACTURER)

RECEIVED
SEP 10 1986

Environmental Conservation

Attachment 1

Important Information about your Geotechnical/Environmental Report



SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Attachment to and part of Report 112438-001

Date:

To: Tim Alley

TBC

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ENVIRONMENTAL REPORT

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include: the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used: (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors which were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the
ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland

RECEIVED
66 of 246
MAR 27 2024

Mat-Su Borough
Development Services

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER

- Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2740
- Southcentral Region
550 W 7th Ave., Suite 900C
Anchorage, AK 99501-3577
(907) 269-8552
- Southeast Region
400 Willoughby, #400
Juneau, AK 99801
(907) 465-3400

STATEWIDE BOND POOL FORM

ADL or LAS # LAS 34897

Know all people by these presents, that

Mountain Gravel Investment Group, LLC (Cameron Johnson, Managing Member)

Material Miner's Name

PO Box 260770

Mailing Address

<u>Encino</u>	<u>CA</u>	<u>91426</u>	<u>cjohnson@amgland.com</u>
City	State	Zip	E-Mail

agrees to meet the requirements of Alaska Statute 27.19 for reclamation of the material mining operation described below, as security for which the miner submits unto the State of Alaska, Department of Natural Resources, the sum of \$ 675 for payment into the Statewide Bond Pool. The material mining operation is located in Section(s) 35, Township 018N, Range 001E, Seward Meridian. The statewide bond pool contribution amount was calculated as follows:

Total number of acres in the mined area for the ~~XXXXX~~ calendar years 2024-2033 as presented in the reclamation plan: 5.96 Ac.

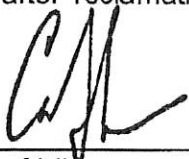
(Acreage must be rounded up to the next whole acre. This acreage must include all areas disturbed by the mining operation after October 15, 1991, and not yet reclaimed. If a mining operation disturbs a previously mined area on or after October 15, 1991, that area must be included in the acreage to be bonded.)

Refundable bond pool deposit: 6 acres X \$112.50 = \$ 675

Non-refundable bond pool fee: _____ acres X \$ 37.50 = \$ _____

Total \$ 675

Make checks payable to **Alaska Department of Revenue**. The refundable bond deposit will be refunded after reclamation has been approved by ADNR and the material miner has requested the refund.



Signature of Miner

3/26/24

Date

DNR - Division of Mining, Land and Water

Date

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(9) and confidentiality is requested). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.



The Boutet Company, Inc.

1508 E. Bogard Road, Unit #7
Wasilla, AK 99654
907-357-6770

10065

DATE 3/27/24

89-7202/3252

PAY TO THE ORDER OF ALASKA DEPARTMENT OF REVENUE

\$ 675⁰⁰

SIX HUNDRED SEVENTY FIVE +

DOLLARS Security Features
Input-It
Details on back.

AlaskaUSA
Federal Credit Union

907-563-4567
800-525-9094
alaskausa.org

Valid for 90 Days

FOR Reclam Boundary Pool LAS 34897

⑈00010065⑈ ⑆32527202⑆ ⑆1700015702762⑈

RECEIVED
MAR 27 2024

Mat-Su Borough
Development Services

RECORD SUCCESSFULLY ADDED -AGMNT NOT BUILT- RECEIPT NUMBER: 5123489
NRB0100P DEPARTMENT OF NATURAL RESOURCES DATE 03/27/2024
NR01 RECEIPTING TIME 10:25:48

ACTION CODE: A RECEIPT NUMBER: _5123489

ADL/LOAN NUMBER: LAS__ 34897 __ RECEIPT DATE: _3 / 27 / 2024
RECEIPT AMOUNT: _____200.00 RECEIPT TYPE: 17
CASH AMOUNT: _____ FISCAL PERIOD: C
CHECK NUMBER: _____ CHECK DATE: __ / __ / ____
BANKCARD NUMBER: 3370 BRAND: VI

FUTURE PMT CODE: _
RETURN REASON: _

CASH DRAWER: 803
PRINT CODE: _

COMMENTS: CM- MATERIAL SALE APPLICATION FEE _____
AGREEMENT NAME: MOUNTAIN GRAVEL INVESTMENT GROUP, LLC
ADDRESS: PO BOX 260770 ENCINO CA 91426

REMITTER NAME: _____ MOUNTAIN GRAVEL INVESTMENT____
ADDRESS: PO BOX 260770 _____
: ENCINO _____ CA 91426 _____ ALTERNATE PRINTER: _____

NEXT CODE __ PF1=HELP PF4=Reset PF8=R&B Main Menu PF11=ADDITIONAL RECEIPT



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Natural Resources

DIVISION OF MINING, LAND & WATER
Southcentral Regional Land Office

550 West 7th Avenue, Suite 900C
Anchorage, Alaska 99501-3577
Main: 907.269.8503
TTY: 711 or 800-770-8973
Fax: 907.269.8913

June 6, 2024

Mountain Gravel Investment Group, LLC
Cameron Johnson, Managing Member
PO Box 260770
Encino, CA 91426

Re: LAS 34897– Non-State Land Material Site Reclamation Plan Approval

Dear Mr. Johnson,

The Department of Natural Resources (DNR), Division of Mining, Land and Water (DMLW), Southcentral Regional Land Office (SCRO), received your Non-State Land Reclamation Plan with attachments. The subject site is Lot C6 owned by Mountain Gravel Investments, and Lot C9 owned by Louis and Bryce W-Green, located in Section 35, Township 018 N, Range 001 E, Seward Meridian.

Thank you for submitting a Reclamation Plan for activities taking place from 2023 through 2033. After reviewing your reclamation plan, SCRO has determined the plan is acceptable, provided the operation is conducted in a manner that will prevent unnecessary and undue degradation of land and water resources, and the operation shall be reclaimed using current reclamation methods, leaving the site in a stable and safe condition.

Per Alaska Statute (AS) 27.19.040(a) financial assurance is required. Development of the proposed 6-acre site requires \$150 of financial assurance per acre of mined area for participation in the statewide bond pool, with \$112.50 per acre refundable and \$37.50 per acre nonrefundable; therefore, your bond on file in the amount of \$900.00 is acceptable. The performance bond will remain in effect until the mined area is reclaimed to standards outlined in AS 27.19 and according to the approved Reclamation Plan.

If you have any questions regarding this requirement, please do not hesitate to call. This acceptance letter does not alleviate the necessity to obtain authorizations required by other agencies and entities for this activity. If you have any questions, please feel free to contact Colleen Lowe at (907) 269-8555 or at colleen.lowe@alaska.gov.

Respectfully,

A handwritten signature in cursive script that reads "joni sweetman".

Joni Sweetman,
Natural Resource Manager
Southcentral Regional Office

Cc: Louis and Bryce Green

Tim Alley

From: morris.beckwith@alaska.gov
Sent: Thursday, March 21, 2024 11:33 AM
To: Tim Alley
Subject: DOT Right of Way Permit Application Status Change Notification

The status of your Right of Way permit application has changed.

Application ID: 32677

Application Type: Driveway / Approach Road

Location: Palmer DW - 8901 Palmer Wasilla Hwy, C6 Seward 18N 1E 35 61.59952 -149.2259

New Status: Awaiting Payment

Sincerely,

Morris R Beckwith
(907) 269-0703

From: [DeCarli, Marcie A \(DOT\)](#)
To: [Tim Alley](#); [Beckwith, Morris R \(DOT\)](#); [Sean Jackson](#)
Subject: RE: Driveway Application 33234: Not in Property Owners Name
Date: Friday, March 22, 2024 11:32:28 AM

Hello,

Check 10064 for \$100. has been received for application 32677. Mail has already been sent for the day. It will be sent to finance next week. Monday is a state Holiday so the office is closed, it will be ready for Tuesday's mail.

*Sincerely,
 Marcie DeCarli*

Marcie DeCarli, Right of Way Agent

State of Alaska DOT&PF, Central Region Right of Way

4111 Aviation Ave, Anchorage, AK 99502

Phone: 907.269.0709 | email: marcie.decarli@alaska.gov

"Keep Alaska Moving through service and infrastructure."

****I will be out of the office every Monday.****

Work Schedule

Tuesday – Thursday 6:00 am – 4:30pm Lunch 11:30- 12:30

Friday 6:00 am – 4:00pm Lunch 11:30 – 12:30

Out of Office Alerts:

March 25, 2024 Seward's Day

March 26 & 27 IRWA training

March 29, 2024

April 1, 2024

From: Tim Alley <talley@tbcak.com>

Sent: Thursday, March 21, 2024 1:16 PM

To: Beckwith, Morris R (DOT) <morris.beckwith@alaska.gov>; Sean Jackson <sjackson@tbcak.com>

Cc: DeCarli, Marcie A (DOT) <marcie.decarli@alaska.gov>

Subject: RE: Driveway Application 33234: Not in Property Owners Name

Thank you for the confirmation!

TBC, Inc.

Project Management & Development - Engineering - Surveying - Landscape Architecture

Tim Alley, P.E.
 Principal/Vice President

talley@TBCak.com
 visit us at www.TBCak.com

The Boutet Company, Inc.

1508 E. Bogard Rd., Unit 7
Wasilla, Alaska 99654

Direct: 907.357.6760

Mobile: 907.830.2821

Main: 907.357.6770

Fax: 907.357.6750

RECEIVED 73 of 446
MAR 27 2024
Mat-Su Borough
Development Services 3/18/2024



TO: TIM ALLEY

FROM: SHAWN TRASKY – CROUSE ENVIRONMENTAL COMPLIANCE, LLC

SUBJECT MSGP DETERMINATION FOR MOUNTAIN GRAVEL MATERIAL SITE

After review of the Mountain Gravel Material Site it is determined that, due to the drainage at the facility and the lack of discharge, coverage should not be required under the ADEC 2020 Multi Sector General Permit (MSGP.)

My recommendation would be to prepare a Storm Water Pollution Prevention Plan for this facility and complete quarterly inspections but not file a notice of intent under the MSGP. During these inspections, if it is determined that a discharge is occurring, permit coverage will be obtained, inspections will continue, and discharge samples will be completed as required for projects with coverage under the MSGP.

Please let me know if you have any questions or need additional information.

A handwritten signature in black ink, appearing to read 'Shawn Trasky'.

Shawn Trasky

CESCL Instructor

AK-CESCL Certification # AGC-22-0329

907-351-3566

Shawn@cecalaska.com

This Page Intentionally Left Blank

**INTRODUCTION FOR
PUBLIC HEARING QUASI-JUDICIAL**

Resolution No. 24-20

Holiday Liquors



MATANUSKA-SUSITNA BOROUGH

Planning and Land Use Department Development Services Division

350 East Dahlia Avenue • Palmer, AK 99645

Phone (907) 861-7822

Email: permitcenter@matsugov.us

APPLICATION FOR A CONDITIONAL USE PERMIT REGULATION OF ALCOHOLIC BEVERAGE USES – MSB 17.70

NOTE: Carefully read instructions and applicable borough code. Fill out forms completely. Attach information as needed. Borough staff will not process incomplete applications.

Application fee must be attached, check one:

- \$1,500 for Beverage Dispensary
- \$1,500 for Package Store [Paid in June 2023](#)

Required Attachments:

- Site plan as detailed on Page 3 [See Appendix 2](#)
- Narrative with operational details and all information required on Page 2
- State of Alaska Alcoholic Beverage License [See Appendix 4 for documentation of current AMCO review in progress](#)

Subject Property:

MSB Tax Account ID#(s): [Tax ID 8478000L002 \(Lot 2, Wasilla Holiday Subdivision 2024-15\)](#)

Street Address: [169 N Meadow Lakes Loop, Wasilla AK 99623](#)

Facility/Business Name: [Holiday Liquors](#)

Name of Property Owner

[Gary Brant \(Holiday Alaska LLC\)](#)

Mailing: [4567 American Boulevard West
Bloomington, MN 55437](#)

Phone: Cell _____

Wk _____ Hm _____

E-mail: _____

Name of Agent / Contact for application

[LaQuita Chmielowski \(DOWL\)](#)

Mailing: [5015 Business Park Boulevard, Suite 4000
Anchorage, AK 99503](#)

Phone: Cell _____

Wk [907-562-2000](#) Hm _____

E-mail: lchmielowski@dowl.com

Attach a narrative explaining, in detail, how the applicant will meet the following requirements of MSB 17.70.	Attached
How the conditional use compatible with and will it preserve or not materially detract from the value, character and integrity of the surrounding area?	See narrative
How the granting of the conditional use permit will not be harmful to the public health, safety, convenience and welfare?	
Are sufficient setbacks, lot area, buffers and other safeguards being provided?	
Is there any potential negative effect upon other properties in the area due to such factors as dust, noise, obtrusive advertising and glare?	
Is there any potential negative effect on the safe, efficient flow of traffic on any highway, arterial, collector or street from which access to and from the establishment is obtained?	
What measures are being proposed to reduce any negative effect upon adjacent and nearby properties? (Example: visual buffers, planted berms, landscaping, reduction or elimination of obtrusive or garish signing or other features, lowered building elevation, clustering with other commercial establishments and use of frontage roads to reduce the number of entries and exits onto highways, arterials and collectors) Where the surrounding area is predominantly residential in character, do site and building design features that contribute to the residential character of the development?	
Are there adequate parking facilities to accommodate a reasonably expected increased demand for parking created by issuing the permit?	
Will access to the premises create an unreasonable traffic hazard?	
Will a reasonably expected increase in traffic overtax the existing road system?	
Is the use compatible with the character of the surrounding neighborhood?	
Is there or would the use tend to result in, a high crime rate or a high incidence of alcohol-related accidents in the area?	
Does the applicant or a person with an interest in the application have an interest in a liquor license which was suspended or revoked in the 12 months preceding the application?	
Has the applicant or person with an interest in the application demonstrated that the person is untrustworthy or unfit to conduct the operation of a licensed business, or is a potential source of harm to the public?	
What is the maximum occupancy capacity of facility as determined by Fire Marshall?	
What is the number of employees proposed to work on largest work shift?	
How many regular parking spaces will the use provide?	
How many handicapped parking spaces will the use provide?	
Is the use a sole occupant in a building or a tenant in a building?	
How much square footage will the proposed use occupy in the building?	
What are the proposed hours of operation?	
What noise mitigation measures are proposed?	

Submit a detailed site plan, <i>drawn to scale</i> . Drawings under the seal of an engineer or surveyor are recommended but not required.	Attached See Appendices
Show proposed and existing structure(s) on the site. Indicate which structure(s) will be used for the liquor use. Draw lot dimensions and indicate setback distance of structure(s) from the lot lines, rights-of-way, and waterbodies.	2
Show the dimensions of all structures.	2
Show signage, existing and proposed.	2
Provide interior floor plans specifying the location of the use or uses to be made of the development. Provide dimensions on the interior floor plan.	2
Provide the location and dimensions for all access points to and from the site to public rights-of-way.	2
Indicate any existing or proposed land contouring.	1, 2
Indicate any existing or proposed vegetation or other landscaping.	2
Indicate any existing or proposed buffering – fences, trees, or berms.	2
Provide a drainage plan.	1, 3
Provide vehicular and pedestrian circulation patterns.	2
Indicate exterior lighting plans.	2
Show the distance(s) to the nearest road intersection in all directions from proposed permit site along roads adjacent to the site.	2
Provide the location and dimensions of proposed or existing parking areas.	2
Indicate a scale and north arrow.	2

Prior to the public hearing, the applicant must also pay the mailing and advertising fees associated with the application. Staff will provide applicant with a statement of advertising and mailing charges. Payment must be made **prior** to the application presentation before the Borough Planning Commission.

OWNER'S STATEMENT: I am owner of the following property:

MSB Tax Account ID #(s) Tax ID 8478000L002 (Lot 2, Wasilla Holiday Subdivision, Plat 2024-15) and, I hereby apply for approval an alcoholic beverage use conditional use permit on that property as described in this application.

I understand all activity must be conducted in compliance with all applicable standards of MSB 17.70 and with all other applicable borough, state, and federal laws.

I understand that other rules such as local, state, and federal regulations, covenants, plat notes, and deed restrictions may be applicable and other permits or authorizations may be required. I understand that the borough may also impose conditions and safeguards designed to protect the public’s health, safety, and welfare, and ensure the compatibility of the use with other adjacent uses.

I understand that it is my responsibility to identify and comply with all applicable rules and conditions, covenants, plat notes, and deed restrictions, including changes that may occur in such requirements.

I understand that changes from the approved conditional use permit may require further authorization by the Borough Planning Commission.

I grant permission for borough staff members to enter onto the property as needed to process this application and monitor compliance. Such access will at a minimum, be allowed when the activity is occurring and, with prior notice, at other times necessary to monitor compliance.

The information submitted in this application is accurate and complete to the best of my knowledge.

Gary Brant, Vice President Operations

Signature: Property Owner

Printed Name

Date

LaQuita

Digitally signed by: LaQuita Chmielowski

Chmielowski

DN: CN = LaQuita Chmielowski
OU = Staff, Users, Standard
Date: 2024.03.26 14:54:13 -08'00'

LaQuita Chmielowski, PE, LEED AP

Signature: Agent

Printed Name

Date

<input type="checkbox"/>	17.63 Conditional Use Permit for Racetracks	\$1500.00
<input type="checkbox"/>	17.65 Variance	\$1500.00
<input type="checkbox"/>	17.67 Tall Structures - Network Improvement Permit Nonconforming Use Administrative Permit Conditional Use Permit	\$100.00
<input checked="" type="checkbox"/>	17.70 Regulation of Alcoholic Beverage Use Permit Application	
<input type="checkbox"/>	17.73 Multi-Family Land Use Permit – add \$25.00 for each addition	
<input type="checkbox"/>	17.75 Single-Family Residential Land Use District	
<input type="checkbox"/>	17.76 Large Lot Single-Family Residential Land Use District	
<input type="checkbox"/>	17.80 Nonconforming Structures (Amnesty) Pre-Existing Legal Nonconforming (Grandfather)	
<input type="checkbox"/>	17.90 Regulation of Adult Businesses – Conditional Use Permit	

RIGHT-OF-WAY FEES:	
<input type="checkbox"/>	Driveway
<input type="checkbox"/>	Driveway Deposit {100.226.100}
<input type="checkbox"/>	Construction
<input type="checkbox"/>	Utility (Application Fee = \$100 ~ Distance Fee \$0.25/per lineal foot)
<input type="checkbox"/>	Encroachment
<input type="checkbox"/>	Construction Bond {100.227.000}

PLATTING PRE-APPLICATION CONFERENCE:	
<input type="checkbox"/>	Pre-Application Fee

FEES:	
<input type="checkbox"/>	Flood Plain Development Survey CD
<input type="checkbox"/>	CD/DVD/DVD-R
<input type="checkbox"/>	Construction Manual/Title 43
<input type="checkbox"/>	Plat Map/Tax Map Copies/Mylar
<input type="checkbox"/>	Color Maps
<input type="checkbox"/>	Xerox Copies (B/W = \$0.25 ~ Color \$1.00/page 11X17 Color \$1.00)
<input type="checkbox"/>	Advertising Fees
<input type="checkbox"/>	Cultural Resources Books or Maps
<input type="checkbox"/>	Citation Payment (If sent to collections – use total due from Court)
<input type="checkbox"/>	Thumb Drive 2GB = \$5, 4GB = \$8, 8GB = \$10; 16GB = \$15; 32GB = \$25

\$ _____ Amount Paid Date: _____ Rece

Colliers Engineering & Design
101 Crawfords Corner Road
Suite 3400
Holmdel, NJ 07733
732.383.1950

PAY TO THE ORDER OF
MSB
Development Services Dept.
Attn: Peggy Horton
350 East Dahlia Avenue
Palmer, AK 99645
UNITED STATES

One Thousand Five Hundred

DOLLARS AND

Zero

CENTS

\$

NO.

1,500.00

MORGAN CHASE BANK, N.A.
NEW YORK, NY
1-2210

6/12/2023

198189

VOID AFTER 180 DAYS

AUTHORIZED SIGNATURE

PERMIT CENTER – FEE RECEIPT FORM

Property Location: HOLIDAY MEADOW LAKE Applicant: DOWL

	USE PERMITS {100.000.000.341.300}	Fee
<input type="checkbox"/>	8.35 Public Display of Fireworks	\$25.00
<input type="checkbox"/>	8.40.010 Liquor License - Alcohol & Marijuana Control Office (AMCO) Referrals for Matanuska Susitna Borough Review of Issuance, renewal or transfer (location, owner)	\$100.00
<input type="checkbox"/>	8.41.010 Marijuana License - Alcohol & Marijuana Control Office (AMCO) Referrals for Matanuska Susitna Borough Review of Issuance, renewal or transfer (location, owner)	\$100.00
<input type="checkbox"/>	8.52 Temporary Noise Permit	\$1000.00
<input type="checkbox"/>	8.55 Special Events Permit 500 – 1000 Attendees	\$500.00
<input type="checkbox"/>	1000+ Attendees	\$1,000.00
<input type="checkbox"/>	8.55 Special Events Permit Site Monitor Fee / Per Day	\$300.00
<input type="checkbox"/>	17.02 Mandatory Land Use Permits Commercial	\$50.00
<input type="checkbox"/>	17.04 Nancy Lake Special Land Use District CUP	\$1,500.00
<input type="checkbox"/>	17.06 Electrical Generating & Delivery Facility Application	\$500.00
<input type="checkbox"/>	17.08 Hay Flats Special Land Use District Exception Application	\$1000.00
<input type="checkbox"/>	17.17 Denali State Park Conditional Use Permit	\$1500.00
<input type="checkbox"/>	17.18 Chickaloon Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	17.19 Glacier View Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	17.23 Port MacKenzie Development Permit	\$1000.00
<input type="checkbox"/>	17.25 Talkeetna Conditional Use Permit	\$1500.00
<input type="checkbox"/>	17.25 Talkeetna Conditional Use Permit – Variance	\$1500.00
<input type="checkbox"/>	17.27 Sutton Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	17.29 Flood Damage Prevention Development Permit	\$100.00
<input type="checkbox"/>	17.29 Flood Damage Prevention Development Permit –Variance	\$500.00
<input type="checkbox"/>	17.30.040 Earth Materials Extraction Admin. Permit	\$1000.00
<input type="checkbox"/>	17.30.050 Earth Materials Extraction CUP	\$1500.00
	17.36 Residential Planned Unit Development Application – Concept Plan – up to 50 Lots	\$500.00
	Additional Lots or tracts being created – Per Lot	\$100.00
<input type="checkbox"/>	17.48 Mobile Home Park Permit Application	\$500.00
<input type="checkbox"/>	17.52 Residential Land Use District App (Rezone)	\$1,000.00
<input type="checkbox"/>	17.52 Conditional Use Permit Application CUP	\$1,500.00
<input type="checkbox"/>	17.55 Shoreline Setback Exception Application	\$300.00
<input type="checkbox"/>	17.60 Conditional Use Permit Application	\$1500.00
<input type="checkbox"/>	17.61 Commercial/Industrial Core Area Conditional Use Permit	\$1500.00
<input type="checkbox"/>	17.62 Coal Bed Methane	\$1500.00



MATANUSKA-SUSITNA BOROUGH

Planning and Land Use Department

Development Services Division

350 East Dahlia Avenue • Palmer, AK 99645

Phone (907) 861-7822

www.matsugov.us

August 25, 2023

[Revised CUP application package dated March 26, 2024 has been sent separately from Kate Silber to Rick Benedict as a Newforma Info Exchange file transfer due to large file size.](#)

DOWL

Attn: LaQuita Chmielowski

5015 Business Park Boulevard, Ste. 4000

Anchorage, AK 99503

SUBJECT: Holiday Alaska, LLC. CUP Application - Request for Required Information

LOCATION: 7751-7699 W. Parks Hwy., Wasilla, Lots A14 & A22 (Tax Accts

#17N02W09A014 and 17N02W09A022) [Property has been replatted \(2024-15\).](#)

[New Legal: Lot 2, Wasilla Holiday Subdivision](#)

[New Tax ID: #8478000L002](#)

[Address: 7751 W. Parks Hwy](#)

Dear Ms. Chmielowski,

Borough staff has reviewed the application materials submitted on July 11, 2023, for a Conditional Use Permit to operate a package store under MSB 17.70 on the above-referenced properties. It has been determined that the following information needs to be provided and/or clarified to process this request:

1. The subject properties have not been issued driveway permits. In addition, borough records indicate no driveway permit applications have been submitted. The application materials and site plan provided show that access to borough roads will occur from the subject parcels. Pursuant to MSB 11.12, driveways installed within borough rights-of-way require a permit and must be constructed to meet the minimum standards established by code to provide for the proper placement and design, and to ensure drainage, maintenance, movement, and safety of the traveling public. [Driveway permits \(D29949 & D29950\) have been submitted and reviewed. Coordination is nearly complete in order to obtain final approval.](#)
2. A letter dated May 11, 2022, from the State of Alaska Alcohol and Marijuana Control Office (AMCO), indicates that a temporary package store license #4198 has been issued to the operator and will expire at 11:59 p.m. on August 27, 2023. Borough records indicate this license was issued by AMCO permitting a package store to operate exclusively from the current Holiday Liquor store located at 7383 W. Parks Highway.

The application materials, and records transmitted to the borough for review by AMCO, do not reflect that the proposed new location has been issued a package store liquor license. Nor do records indicate that a relocation application has been submitted or approved through AMCO. Please provide documentation that reflects the new proposed location has been issued a package store liquor license, or documentation that shows a relocation application

Documentation of the operator's current AMCO license in the process of being transferred to the new store is included in Appendix 4 of this submittal. The transfer application was submitted on 12/20/23 and is still being reviewed for completeness at the time of this submittal; the application documentation be provided ASAP. The applicant understands that the MSB hearing cannot be scheduled until AMCO completes their initial review. The application has been submitted and approved for the transfer of the current license from the existing location.

3. Upon finalization of the abbreviated platting action (MSB Case #2023-092), please provide updated site plans reflecting all changes, including but not limited to the relocation of lot lines and/or property boundaries. Please ensure distances from all sides of structures to all property lines are documented. In addition, ensure all required information is included on the updated site plans, as described on the CUP application.
The platting action referenced was recorded as Plat 2024-15 and is now included in Appendix 1. The maps in Appendix 1 and site plan in Appendix 2 (C3.1) have been updated accordingly.

Respectfully,

Rick Benedict

Rick Benedict, Planner II
Matanuska-Susitna Borough
Development Services Division
(907)861-8527

From: [Kate Silber](#)
To: [Rick Benedict](#)
Subject: File Transfer: Meadow Lakes Holiday - Alcohol CUP Package Revisions - Circle K Wasilla TIA
Date: Tuesday, March 26, 2024 4:46:33 PM

[EXTERNAL EMAIL - CAUTION: Do not open unexpected attachments or links.]

[Download all files](#)

Additional links:

[Reply to All](#)

Project Name: Circle K Wasilla TIA
Project Number: 1181.63733.01

From: Kate Silber (DOWL)
To: Rick.Benedict@matsugov.us
CC: LaQuita Chmielowski (DOWL); Harani.Kumaresh@collierseng.com; mark.stinson@circlek.com
Subject: Meadow Lakes Holiday - Alcohol CUP Package Revisions
Purpose: For your use and distribution
Sent via: Info Exchange
Expiration Date: 4/9/2024
Remarks: Good afternoon Rick,

Based on the Request for Additional Information that you provided on August 25 of 2023, as well as the plat, TIA, and site design changes that occurred since that submission, we have updated the Alcohol CUP application for the Meadow Lakes Holiday liquor store proposed at 7751 Parks Highway at the intersection with Meadow Lakes Loop (Tax ID 8478000L002). This file transfer includes the compiled, revised application package as well as an annotated copy of the RFAI letter.

As we have discussed recently, please note that AMCO completeness review for the transfer of liquor license from the existing liquor store down the road has still not been returned. The transfer application was submitted on December 20, 2023. The documentation of AMCO completeness review will be provided ASAP, and it is our understanding that the CUP hearing cannot be scheduled until MSB receives this. The intent with submitting the rest of these materials now is so that MSB may begin reviewing the revised application in the meantime.

Please let me know if there are any questions as you begin your review of the revised materials.
 Thank you!
 Kate

Transferred Files

NAME	TYPE	DATE	TIME	SIZE

00_Holiday Alaska CUP - RFAI 8-25-2023_Annotated 3.26.24.pdf	PDF File	3/26/2024	6:08 PM	279 KB
00_Holiday Alaska CUP_Compiled Revised Package_3.26.24.pdf	PDF File	3/26/2024	6:05 PM	177,904 KB
Transmittal - 00001.pdf	PDF File	3/26/2024	6:43 PM	88 KB



Transmittal

5015 Business Park Blvd, Suite 4000, Anchorage, AK 99503

PROJECT: Circle K Wasilla TIA 1181.63733.01 DATE: 3/26/2024

SUBJECT: Meadow Lakes Holiday - Alcohol CUP Package Revisions TRANSMITTAL ID: 00001

PURPOSE: For your use and distribution VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Kate Silber 5015 Business Park Blvd, Suite 4000 Anchorage AK 99503 United States	DOWL	ksilber@dowl.com	(907) 865-1261

TO

NAME	COMPANY	EMAIL	PHONE
Rick.Benedict@matsugov.us		Rick.Benedict@matsugov.us	

REMARKS: Good afternoon Rick,

Based on the Request for Additional Information that you provided on August 25 of 2023, as well as the plat, TIA, and site design changes that occurred since that submission, we have updated the Alcohol CUP application for the Meadow Lakes Holiday liquor store proposed at 7751 Parks Highway at the intersection with Meadow Lakes Loop (Tax ID 8478000L002). This file transfer includes the compiled, revised application package as well as an annotated copy of the RFAI letter.

As we have discussed recently, please note that AMCO completeness review for the transfer of liquor license from the existing liquor store down the road has still not been returned. The transfer application was submitted on December 20, 2023. The documentation of AMCO completeness review will be provided ASAP, and it is our understanding that the CUP hearing cannot be scheduled until MSB receives this. The intent with submitting the rest of these materials now is so that MSB may begin reviewing the revised application in the meantime.

Please let me know if there are any questions as you begin your review of the revised materials.
Thank you!
Kate

Transmittal

DATE: 3/26/2024
 TRANSMITTAL ID: 00001

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	3/26/2024	00_Holiday Alaska CUP - RFAI 8-25-2023_Annotated 3.26.24.pdf	
1	3/26/2024	00_Holiday Alaska CUP_Compiled Revised Package_3.26.24.pdf	

COPIES:

LaQuita Chmielowski (DOWL)
 Harani.Kumaresh@collierseng.com
 mark.stinson@circlek.com



Part of Alimentation Couche-Tard

5/25/2023

Mr. Alex Strawn
Planning and Land Use Director
Matanuska-Susitna Borough
Planning and Land Use Department
350 East Dahlia Avenue
Palmer, AK 99645

Subject: Letter of Authorization: Circle K Wasilla

Dear Mr. Strawn,

Holiday Alaska LLC owns the properties located at 7751 to 7699 West Parks Highway, legally described as Lots A14 and A22, Section 9, Township 17N Range 2W (Parcel IDs 42624 and 536316). The property is located north of the intersection of West Parks Highway and North Meadow Lakes Loop.

As the Vice President of Holiday Alaska LLC, I authorize DOWL to proceed with land use and planning actions for the above referenced land.

Should you have any questions, please contact me either by email at: Gary.Brant@HolidayCompanies.com or by phone at: 952-830-8700.

Sincerely,

A handwritten signature in black ink that reads "Gary Brant".

Gary Brant
Vice President Operations

MEADOW LAKES HOLIDAY

Package Liquor Store – Conditional Use Permit

1181.63733.01

March 2024

Prepared for:

Holiday Alaska LLC
4567 American Boulevard West
Bloomington, MN 55437

Prepared by:



5015 Business Park Boulevard,
Suite 4000
Anchorage, AK 9950

TABLE OF CONTENTS

1.0	PROJECT OVERVIEW	1
2.0	ADJACENT LAND USES	1
3.0	SITE AND BUILDING DESCRIPTION	2
4.0	ALCOHOL CONDITIONAL USE STANDARDS.....	3
5.0	CONCLUSION	11

APPENDICES

- Appendix 1: Maps and Property Information
- Appendix 2: Site, Building, and Signage Plans
- Appendix 3: ADEC Storm Water Approval
- Appendix 4: Alcoholic Beverage License
- Appendix 5: Traffic Impact Analysis

1.0 PROJECT OVERVIEW

Holiday Alaska LLC is seeking approval of a Conditional Use Permit (CUP) in order to operate a package liquor store within the Meadow Lakes Community Council of the Matanuska-Susitna Borough (MSB), west of Wasilla city limits. The package liquor store is a portion of a new Holiday convenience store and fuel station project planned to be located at 7751 West Parks Highway in Wasilla, north of the intersection of West Parks Highway and North Meadow Lakes Loop. The property is legally described as Lot 2, Wasilla Holiday Subdivision (Tax ID 8478000L002). Vicinity and site map figures, along with the plat, are included in Appendix 1. Site plans, architectural plans and elevations, and color renderings and signage plans are included in Appendix 2.

Since 2004, Holiday has owned and operated a convenience store and fuel station, including a package liquor store, located at 7383 West Parks Highway (about 0.4 miles northeast of the project site). Holiday plans to relocate the store at 7383 West Parks Highway to the project site. The existing and new locations are both shown in the Vicinity Map in Appendix 1.

The new Holiday store will be similar to the existing Holiday store, containing both a convenience store and liquor store in the same building, but with larger sales and storage areas for both uses. According to MSB Code Chapter 17.70, the package liquor store portion of the new project is subject to CUP review. The convenience store and fuel station portions of the project are not subject to CUP review. The building and site plans are being separately reviewed for local permitting requirements including the following:

- State Fire Marshal approval
- Traffic Impact Analysis (TIA): Department of Transportation and Public Facilities (DOT) and MSB review – *complete February 2024*
- Well and Septic Design: Alaska Department of Environmental Conservation (ADEC) review
- On-site drainage: ADEC review – *complete*
- Driveway permit: MSB review – *nearly complete as of this submission*
- State Alcoholic Beverage License: State of Alaska review – *in progress*

ADEC storm water plan approval has already been obtained and is included in Appendix 3. Documentation related to the State of Alaska Alcoholic Beverage License review is included in Appendix 4 – the existing store’s license will be transferred to the new location when it opens and the existing location closes. A stamped copy of the approved TIA is included in Appendix 5, and the driveway permit process with MSB is nearly complete.

2.0 ADJACENT LAND USES

The subject property is located at the northeast corner of the intersection of North Meadow Lakes Loop and West Parks Highway. Proposed access to the site is from two new private driveways that have direct access onto North Meadow Lakes Loop. (Please refer to the Site

Map in Appendix 1 and Civil Site Plan in Appendix 2.) DOT recently completed a new segment of the road and infrastructure improvements at this intersection, extending North Meadow Lakes Loop to the southwest across the Parks Highway (completed around 2021) traffic signals to the intersection (completed around 2022). The intersection now has dedicated left turn lanes on all four sides and dedicated right turn lanes on the Parks Highway.

Adjacent land uses on either side of the site and across the street along West Parks Highway include heavy commercial / industrial uses such as equipment rental and construction-related businesses. There are some residential properties located across the intersection of North Meadow Lakes Loop and West Swan Drive to the west of the project site. North of the project site is Lot 1, Wasilla Holiday Subdivision and Tract A, Rainbow Ridge Subdivision, which currently contain commercial uses. Lot 1, Wasilla Holiday Subdivision includes a driveway with a shared access easement between Lot 1 and the subject property Lot 2.

3.0 SITE AND BUILDING DESCRIPTION

The project site is Lot 2, Wasilla Holiday Subdivision (Plat 2024-15). The site was previously used as a laundromat and RV park but sat vacant for some time, so a gravel parking area and abandoned RV hookups were removed to prepare for the new development. Construction for the overall convenience store and gas station development has begun while this package store CUP is under review.

Lot 1, Wasilla Holiday Subdivision to the north is currently developed, consisting of a few commercial buildings remaining from a previous use along with concrete and gravel parking areas. Most of the lot has been cleared of vegetation, with vegetated areas to the southwest, north, and east portions of the lot. It is important to note that Lot 1 is a flag lot with access to Meadow Lakes Loop that is shared with the proposed development on Lot 2, as dedicated on Plat 2024-15 (see Appendix 1).

As shown on the demolition plan in Appendix 2, all existing structures on the site were demolished in preparation for the new development. Some unsuitable soils were also removed and replaced with fill, preparing for the new development with paved areas graded for proper drainage.

As shown in the site plan in Appendix 2, the new development will include a Holiday convenience store (including package liquor store), auto fuel and diesel canopies and pads, parking areas, a propane tank, well and septic serving the new building, an RV dump station and associated septic tank and leach field, and additional space for RV or truck circulation. Around the perimeter of the development, there will be landscaped areas including white spruce trees and bioretention drainage swales. Stormwater plans were submitted to ADEC and approved; the submitted materials and approval letter are included in Appendix 3.

The package liquor store will be located in the eastern portion of the overall convenience store building. The total store area will be approximately 9,905 square feet, of which approximately 3,165 square feet will be the package liquor store (including liquor sales and storage areas). This equates to approximately 32 percent of the overall store square footage. The existing store is smaller at approximately 4,926 square feet, with 1,178 square feet dedicated to the liquor store (approximately 24 percent of the building); the store relocation will allow more area for sales and storage to better serve customers for all uses on the site.

All alcohol storage and sales will occur exclusively in the eastern portion of the new building, which will be separated by a wall. Customers will not be able to walk between the convenience store portion and the package liquor store portion inside the building; there are separate entrances and checkout counters planned, as well as a separate restroom for the package liquor store.

As shown in color elevations and signage plans in Appendix 2, the Holiday-branded signs on the building and throughout the site are red to provide a contemporary pop of color that is easy for customers to read. The package liquor store is clearly delineated on the eastern portion of the building, with its separate entrance around a chamfered corner from the main convenience store entrance, with less visual access windows than the convenience store side. Signage for the liquor store is a more subtle blue that complements colors in the main Holiday logo. Throughout the site, other wayfinding signage is designed in a cohesive and contemporary style that focuses on legibility to allow for safe and convenient navigation of the site.

4.0 ALCOHOL CONDITIONAL USE STANDARDS

According to MSB Code Chapter 17.70: Regulation of Alcoholic Beverage Uses, a CUP is required for uses requiring a package store license under Alaska Statute 04.11.150. As discussed earlier in this narrative, a CUP is only required for the package liquor store portion of this Holiday store development. The other uses planned for the site (convenience store and fuel station) are permitted by-right in this location outside of the MSB Core Area.

Below are the applicable requirements for approval of the package liquor store CUP:

1. **How is the conditional use compatible with the surrounding area? Will it preserve or not materially detract from the value, character, and integrity of the surrounding area?**

This development is proposing to utilize a lot along the Parks Highway that has already been developed in the past. The lot was an abandoned RV park and laundromat at the prominent, newly signalized intersection of North Meadow Lakes Loop and West Parks Highway. The structures from the past use were demolished to make way for the new development. The new building is designed with neutral-toned brick to aesthetically fit into the area and will have a similar aesthetics to the existing store located 0.4 miles to the east.

The proposed package liquor store will be located within the larger Holiday convenience store and fuel station located adjacent to the Parks Highway. This new store will replace the existing package liquor store located in the existing Holiday store just to the northeast near the intersection of Pittman Road and the Parks Highway. The surrounding area along the highway consists primarily of commercial or industrial uses, such as restaurants, shopping centers, equipment rental, and construction-related businesses. The package liquor store within the Holiday convenience store and fuel station is compatible with the surrounding commercial and industrial uses that are located in the area and adjacent to the Parks Highway.

The purpose of this new development is to replace the existing Holiday convenience store, fuel station, and package liquor store, which is under the same ownership as the proposed new location. The existing location is just 0.4 miles northeast on the Parks Highway, on the same side of the road, north of the intersection of the Parks Highway and the West Meadow Lakes Spur. Once the new Holiday is opened, the existing Holiday will close. Because this project is a

replacement of the nearby location, the package liquor store is expected to have little to no impact on the surrounding area.

Just like at the existing Holiday location, the new location has residential properties nearby. However, the existing location is directly adjacent to a strip of residential properties. As shown in the Vicinity Map for the new location (see Appendix 2), the nearest residential properties have more of a buffer from the new location as they are farther west across North Meadow Lakes Loop, on a different street (West Swan Drive). Furthermore, the package liquor store within the proposed new convenience store will be located on the east side of the building that is further from the West Swan Drive intersection, so it is unlikely that it will be visible from these residential properties to the west.

The overall development is consistent with the surrounding commercial / industrial corridor along the highway and will not detract from its value, character, or integrity.

2. How will the granting of the conditional use permit not be harmful to the public health, safety, convenience, and welfare?

The purpose of this new development is to replace an existing Holiday convenience store, fuel station, and package liquor store, which is under the same ownership as the proposed new Holiday store. The existing location is just 0.4 miles northeast on the Parks Highway, on the same side of the road, north of the intersection of the Parks Highway and the West Meadow Lakes Spur. Once the new Holiday is opened, the existing location will close. Because it is just replacing a nearby location that will subsequently close, the new package liquor store is expected to have little to no impact on the surrounding area or the public health, safety, convenience, and welfare. As the package store will be located within the convenience store and fuel station, the business it generates will only represent a portion of the visitors to the site, further decreasing its individual potential impact.

Holiday has been an established liquor store owner and operator in the area for 20 years; their existing location just 0.4 miles down the road was acquired by Holiday in 2004. The State of Alaska Alcoholic Beverage License #4198 will be transferred from the existing store to the new store when the existing store closes and the new one opens. Documentation related to the license transfer for the new package liquor store is included in Appendix 4.

This location for the new Holiday development, including the package liquor store, was selected due to its convenient proximity to the Parks Highway, surrounding commercial and industrial development, and access to a signalized intersection. Combining a fuel station, convenience store, and package alcohol store, along with other amenities such as an RV dump station, is a logical and convenient combination of uses to be located along a highway that is frequented by locals and people traveling north or south along the Parks Highway.

3. Are sufficient setbacks, lot area, buffers, and other safeguards being provided?

The proposed convenience store and fuel station building, which contains the package liquor store that is the subject of this CUP application, is located on Lot 2, Wasilla Holiday Subdivision. Associated parking and other uses that are part of the overall Holiday development are also located on site. Lot 2 is approximately 6.3 acres in area. Plat 2024-15 is included in Appendix 1, and a site map showing the location of the overall building (including the liquor store portion) on the site is also included in Appendix 1.

The structure and building setbacks required per MSB 17.55.010 are listed in the table below, along with the setback distances provided for the building according to the site plan (included in Appendix 2).

TABLE 1: Building Setbacks		
Setback	Setback Requirement (ft)	Setbacks Provided (ft)
ROW / Front	25	From North Meadow Lakes Loop: 152.1 From West Parks Hwy: 216.7
Side	10	To main portion of Lot 1: 305.5 To flag pole portion of Lot 1: 281.9
Rear	10	<i>N/A – Only ROW and Side setbacks exist on this property due to its location and shape.</i>

As shown in the table above, all minimum setback requirements are well exceeded, providing ample buffer to the package liquor store use. Because the package liquor store is located on the east side of the building, it will have the greatest buffer from the surrounding ROWs and other uses, including the residential uses to the west.

Around the perimeter of the site, bioretention swales are planned to capture storm water runoff. Although not required, white spruce trees will be planted along the perimeter of the development to help screen the site and improve its aesthetic appearance, as shown on the site plans in Appendix 2. Holiday wants to create a site that is attractive, clean, safe, and easy to navigate.

4. Is there any potential negative effect upon other properties in the area due to such factors as dust, noise, obtrusive advertising, and glare?

As previously stated, the development is directly adjacent to other commercial and industrial uses along the Parks Highway. The development will include paved parking and drive aisles along with bioretention basins that will capture and treat stormwater runoff from the site. Potential negative impacts and mitigation are outlined below:

Dust

The current site includes gravel drives, but the majority of the gravel areas of the site will become paved with asphalt for parking, drive aisles, or pedestrian circulation. This is expected to decrease potential dust impacts.

Noise

Like the existing Holiday location just up the road, the proposed new location is adjacent to the Parks Highway. There may be noise generated from vehicles entering and leaving the site.

However, given the location adjacent to the Parks Highway, it is likely that the noise from the site will be at a lower decibel level than what is generated from the highway traffic.

While the convenience store and fuel station will be open 24 hours per day, the package liquor store will have more limited hours in accordance with local regulations (10:00 AM to 1:00 AM on Mondays through Saturdays and 12:00 PM to 1:00 AM on Sundays). Any noise generated from vehicles specifically visiting the liquor store portion of the development would be limited to the liquor store's hours listed above.

Obtrusive Advertising

Surrounding uses mostly involve industrial or commercial uses along the Parks Highway corridor that are compatible with the proposed Holiday development. There are some nearby residential lots across the intersection of North Meadow Lakes Loop and West Swan Drive, but they are shielded from the package liquor store portion of the development by the rest of the convenience store building.

As shown in the signage plans and elevations in Appendix 2, the building is designed in neutral-toned brick to fit into the aesthetics of the surrounding area. The majority of the windows providing visual access into the building are on the convenience store side, not the package liquor store side. The Holiday-branded signs on the building and throughout the site are red to provide a tasteful, contemporary pop of color that is easy to read for customers visiting the site. The package liquor store is clearly delineated on the eastern portion of the building, with its separate entrance around a chamfered corner from the main convenience store entrance. Signage for the liquor store is a more subtle blue that complements colors in the main Holiday logo. Throughout the site, other wayfinding signage is designed in a cohesive and contemporary style that focuses on legibility to allow for safe and convenient navigation of the site.

Glare

The site will be lit per the site lighting plan and light fixture cut-sheets in Appendix 2. The site lighting has been designed to provide safe lighting for the facility without impacting the nearby neighbors. One light fixture will be used to light the main sign near the corner of the Parks Highway and North Meadow Lakes Loop, to make wayfinding as easy as possible for vehicles passing on the road. The fixtures throughout the paved areas of the site are typical parking lot light fixtures that are designed to direct light downward (Cree OSQ Series), with fuel station fixtures under the canopies (Cree CPY series). Lights on the exterior of the building are cylindrical wall-mounted fixtures that can only point up or down – not out from the building. All of these fixtures were selected to minimize light or glare impacts to neighbors.

- 5. What measures are being proposed to reduce any negative effect upon adjacent and nearby properties? (Example: visual buffers, planted berms, landscaping, reduction or elimination of obtrusive or garish signing or other features, lowered building elevation, clustering with other commercial establishments and use of frontage roads to reduce the number of entries and exits onto highways, arterials, and collectors.) Where the surrounding area is predominantly residential in character, do site and building design features contribute to the residential character of the development?**

As discussed previously, the building is significantly set back from surrounding ROWs, with the package liquor store portion positioned with the greatest buffer from surrounding ROWs due to its location within the overall development. As shown in the elevations included in Appendix 2, the building will be only one story tall and constructed with neutral tones of brick. The package liquor store portion has a separate, smaller entrance, fewer windows, and makes up less than a third of the Holiday convenience store building. The signage associated with the entrance to the package liquor store is clearly distinguished from the rest of the development with more subtle blue lettering as compared to contemporary red signage according to Holiday branding throughout. As discussed above, lighting provided on the exterior of the building and around the site is designed to point directly downwards, minimizing light or glare impacts from the lights to the surrounding area while still providing a well-lit, safe environment on site (see lighting plans and light fixture cut-sheets in Appendix 2).

Surrounding uses along the Parks Highway mostly include commercial and industrial uses. The Holiday package liquor store within the larger convenience store and fuel station is consistent with uses typically located along this major highway. Though there are a few residential properties on a local street across North Meadow Lakes Loop from the site, the package liquor store portion of the development will be shielded from their view by the convenience store portion of the building. Clear wayfinding signage is provided to access the site and within the site.

Two driveways are provided on the North Meadow Lakes Loop side only – no access will be taken from the highway. Because DOT recently installed traffic signals at this intersection, it is anticipated that additional traffic to the use will be safely accommodated. A TIA was completed in February 2024 (included in Appendix 5), which recommended a taper lane for traffic turning right into the south driveway closer to the Meadow Lakes and Parks Highway intersection. The design for the taper was added to the Civil plans as shown in Appendix 2. The driveway permit review process is nearly complete at the time of this submittal.

As shown in the site plans in Appendix 2, bioretention swales, white spruce trees, and other landscaping are being provided around the perimeters of the site. The trees and landscaping will help serve as visual buffers for the site and improve its aesthetic appearance, fitting into the natural character of the area. ADEC approval of plans for water, wastewater, stormwater, and other potential impacts from the site is included in Appendix 3.

6. Are there adequate parking facilities to accommodate a reasonably expected increased demand for parking created by issuing the permit?

There are adequate parking facilities planned in order to accommodate the increase in demand for parking. The site is currently mostly undeveloped, and the new site plan will include over 50 parking spaces (49 regular and three accessible spaces, 52 total). This CUP is being requested for a package liquor store that is part of a Holiday convenience store and fuel station along the Parks Highway. Due to the development's location along the highway and the nature of it being a convenience store / fuel station, turnover is expected to be high for parking at the site.

There are no parking minimum requirements for the site. However, if it were within Wasilla city limits, the required parking for the development would have been one space for every 300 square feet of the building (Wasilla Municipal Code Chapter 16.24.040.E, requirement for "Commercial uses (other than shopping centers)"). The building is approximately 9,905 square

feet, so about 33 parking spaces would be required. Almost 20 more spaces are being proposed than what would have been required by City of Wasilla code.

7. Will access to the premises create an unreasonable traffic hazard?

Access to the premises will not create an unreasonable traffic hazard. The Holiday will take access only from North Meadow Lakes Loop, not directly from the Parks Highway, which will help minimize traffic conflicts due to Meadow Lakes Loop being a lower speed minor collector. In the past few years, DOT completed intersection improvements at the intersection of West Parks Highway and North Meadow Lakes Loop directly adjacent to the project site, adding a traffic signal. Therefore, vehicles will be able to enter and exit the premises at a slower speed from the side street.

Per MSB 11.12.080, a TIA is required because the collection of uses on the site (which includes the liquor store) will generate over 100 vehicle trips during the peak hour. The TIA included a Level of Service (LOS) analysis and determined that the surrounding intersections will be able to maintain the same LOS after the new development begins operations. Therefore, the development is not expected to create unreasonable traffic hazard due to roadways and intersections still being able to accommodate the traffic.

A turn lane warrant analysis was also completed as part of the TIA to determine if a turn lane should be added to the development for vehicles turning into the driveways. The results recommended a taper lane for traffic turning right into the south driveway closer to the Meadow Lakes and highway intersection. The design for the taper lane is now shown on the Civil plans as shown in Appendix 2. The final stamped TIA, approved by MSB and DOT, is included in Appendix 5.

An MSB driveway permit is required for each of the two planned driveways to ensure adequate and safe dimensions for the high-volume driveways, and at the time of this submittal, the driveway permit approval process is nearly complete.

8. Will a reasonably expected increase in traffic overtax the existing road system?

The site was previously vacant, so the proposed development will increase traffic compared to the existing conditions. However, it is not anticipated that the increase in traffic would overtax the existing road system. According to the MSB Official Streets and Highways Plan (OSHP), North Meadow Lakes Loop is a minor collector, and the West Parks Highway is an interstate. North Meadow Lakes Loop, its signalized intersection with West Parks Highway, and its continuation across the highway as Marigold Drive (a local road), were all constructed in the past few years to help manage additional traffic.

The MSB OSHP references both MSB Subdivision Construction Manual (SCM) and Federal Highway Administration (FHWA) guidelines for average annual daily traffic (AADT) based on road classification. Meadow Lakes Loop is classified as a minor collector, and the Parks Highway is classified as an interstate. Based on FHWA guidelines specific to rural areas like Meadow Lakes, the Parks Highway (interstate) should be designed to accommodate an AADT of 12,000 to 34,000 vehicles. Also, per FHWA, the AADT for Meadow Lakes Loop (minor collector) should be 150-1,100 vehicles. The SCM indicates that minor collectors can

accommodate an AADT of 1,000-3,000 vehicles. The OSHP notes that the SCM should potentially be shifted over time to be closer to FHWA recommendations for rural areas.

Regardless of whether SCM or FHWA guidelines are considered, the AADT generated by the Holiday development will be a small percentage of the overall traffic that the streets are classified to accommodate. As part of the TIA, LOS analysis of the surrounding intersections also indicated no negative impacts to the LOS due to the new Holiday development (as discussed above under Condition 7). The stamped TIA is included in Appendix 5 for reference.

Furthermore, this CUP application is specific to the package liquor store, which is a small portion of the overall development and therefore a portion of the overall traffic generated at the site. The on-site parking, driveways, and drive aisles associated with the overall development have been designed to accommodate all site traffic, including the package liquor store.

Based on the information above, the surrounding roadway system is more than adequate to manage the increase in traffic due to the proposed development.

9. Is the use compatible with the character of the surrounding neighborhood?

The proposed package liquor store within the new location for the Holiday convenience store and fuel station is compatible with the character of the surrounding neighborhood. It is located within the corridor along West Parks Highway that consists of other commercial and industrial uses, such as equipment rental and construction-related businesses.

The purpose of this new development is to replace an existing Holiday convenience store, fuel station, and package liquor store, which is under the same ownership as the proposed new location. The existing location is just 0.4 miles northeast on the Parks Highway, on the same side of the road, north of the intersection of the Parks Highway and the West Meadow Lakes Spur. Once the new Holiday is opened, the existing location will close. Because it is replacing a nearby location that will subsequently close, the new package liquor store is expected to have little to no impact on the surrounding area. As the package store will be located within the convenience store and fuel station, the business it generates will only represent a portion of the visitors to the site, further decreasing its individual potential impact.

Just like at the existing Holiday location, the new location has residential properties nearby. However, the existing location is directly adjacent to a strip of residential properties. As shown in the Vicinity Map for the new location (see Appendix 1), the nearest residential properties have more of a buffer from the new location as they are farther west across North Meadow Lakes Loop, on a different street (West Swan Drive). Furthermore, the package liquor store within the proposed new convenience store will be located on the east side of the building that is further from the West Swan Drive intersection, so it is unlikely that it will be visible from these residential properties to the west.

The proposed package liquor store is only a portion of the overall convenience store and fuel station development, making up less than a third of the building. It is within the existing character of the surrounding area to shift the existing Holiday location a short distance down the road – this does not represent a new package liquor store, but rather a replacement in a similar location. The overall development is consistent with the surrounding commercial / industrial corridor along the highway and will not detract from its value, character, or integrity.

As shown in the elevations and signage plans in Appendix 2, the building will be constructed out of neutral-toned brick to fit into the surrounding area. Signage will be color-coordinated, contemporary, and easy to read for safe wayfinding and a clean look. White spruce trees and other landscaping around the site's perimeter will also help the site fit into the natural character along MSB along the Parks Highway.

10. Is there, or would the use tend to result in, a high crime rate or a high incidence of alcohol-related accidents in the area?

There is not a known high crime rate or incidence of alcohol-related accidents at the existing liquor store. This CUP is for a package liquor store and not an alcohol dispensary (such as a bar) so there will be no alcohol consumption on the site. Therefore, it is not anticipated that the use would result in elevated crime or incidence of alcohol-related accidents in the area.

11. Does the applicant or a person with an interest in the application have an interest in a liquor license which was suspended or revoked in the 12 months preceding the application?

Neither Holiday Alaska LLC nor a person with an interest in the application have an interest in a liquor license which was suspended or revoked in the 12 months preceding the application. Documentation related to the State of Alaska Alcoholic Beverage License transfer review process is included in Appendix 4.

12. Has the applicant or person with an interest in the application demonstrated that the person is untrustworthy or unfit to conduct the operation of a licensed business, or is a potential source of harm to the public?

Neither Holiday Alaska LLC nor a person with an interest in the application have been demonstrated as untrustworthy, unfit to conduct the operation of a licensed business, or a potential source of harm to the public. Documentation related to the State of Alaska Alcoholic Beverage License transfer review process is included in Appendix 4.

13. What is the maximum occupancy capacity of the facility as determined by the Fire Marshal?

As determined by the Fire Marshal, the maximum occupancy of the package liquor store portion of the building is 76 people.

14. What is the number of employees proposed to work on the largest work shift?

A maximum of one employee is proposed to work in the Holiday store on the largest work shift.

15. How many regular parking spaces will the use provide?

Forty-nine (49) regular parking spaces will be provided.

16. How many handicapped parking spaces will the use provide?

Three (3) van-accessible handicapped parking spaces will be provided.

17. Is the use a sole occupant in a building or a tenant in a building?

Holiday Alaska LLC owns the property, building, and Holiday convenience store business proposed for the site. The Holiday convenience store (including package liquor store and fuel station) is the sole occupant of the lot and building. The package liquor store that is the subject of this CUP application is the eastern portion of the convenience store building and not a separate building. However, the package store will be separated by a wall and have separate entrances; the customer experience will be such that the two sides are separate, as customers must walk outside to access between the two. Alcohol sales and storage will only occur in this portion of the building, which makes up less than one third of the overall building.

18. How much square footage will the proposed use occupy in the building?

The proposed package liquor store will occupy approximately 3,165 square feet in the Holiday convenience store building, which is just under a third of the overall building area.

19. What are the proposed hours of operation?

While the convenience store and fuel station portion of the development will be open 24 hours, the package liquor store will generally be open from 10:00 AM to 1:00 AM on Mondays through Saturdays, and 12:00 PM to 1:00 AM on Sundays.

20. What noise mitigation measures are proposed?

As this CUP is for a package liquor store, not a beverage dispensary such as a bar, there will be no alcohol consumption on site. Therefore, there are no major noise impacts anticipated resulting from the package liquor store portion of the Holiday convenience store and fuel station. Like the existing location just up the road, the proposed new site is adjacent to the Parks Highway. It is anticipated that any noise impacts from the package liquor store would be only a small portion of the Holiday convenience store / fuel station noise, which overall is expected to be minimal relative to the existing highway noise. Therefore, no noise mitigation measures are proposed.

5.0 CONCLUSION

The purpose of this development is to replace an existing Holiday convenience store, fuel station, and package liquor store located just 0.4 miles away on the same side of the West Parks Highway. A CUP is required per MSB 17.70 for the package liquor store use, and the convenience store and fuel station uses do not require CUP approval. The package store takes up less than a third of the overall building on the site, with a separate, lower-profile entrance on the side of the building that is shielded from a nearby residential street across North Meadow Lakes Loop. Other uses in the area are mostly heavy commercial and industrial uses along the highway, so this use is consistent with the surrounding area and expected to have net zero impact on traffic, noise, dust, crime, and other potential negative impacts.

DOT recently installed traffic signals at the intersection of North Meadow Lakes Loop and West Parks Highway, improving the ability of this location to manage increased traffic. Both driveways for the site require an MSB permit review process, and both are located on North Meadow Lakes Loop instead of the highway to protect safety and efficient traffic movement through the area. A TIA was completed in collaboration with DOT and MSB, and the driveway permits approval process is nearly complete at the time of this submittal.

The building is significantly set back from surrounding ROWs. The design of the site uses neutral materials and a low profile for the building, with white spruce trees, bioretention swales, and other landscaping around the perimeters to fit into the surrounding area. Signage is contemporary to support wayfinding and a clean look for the site. ADEC and Fire Marshal approval have already been obtained for the development plans. Holiday has 20 years of experience being a good neighbor along this part of the Parks Highway and will continue to do so at its relocated store at the intersection of North Meadow Lakes Loop and West Parks Highway upon approval of this CUP for the package liquor store.

Plan Review Approval Letter & Certificate
Grantor: State of Alaska, Department of Public Safety, Division of Fire & Life Safety
Grantee: HOLIDAY ALASKA INC
Recording District:
Legal Description:

State of Alaska
Office of the State Fire Marshal
Plan Review

This is to certify that the plans for this building were reviewed by the *State Fire Marshal* on 4/13/2023 for conformance with AS 18.70.010 -- 100; 13 AAC 50.027.

This certificate shall be posted in a conspicuous place on the premises named Holiday Stationstore (#650) - Wasilla and shall remain posted until construction is completed.

NOTICE: Any changes or modifications to the approved plans **must** be resubmitted for review by the *State Fire Marshal*.

Plan Review #: 2023ANCH0161 By: *Oscar Lage*

Authority: AS 18.70.080
Form: 12-741
(6/01)

Oscar Lage
Building Plans Examiner I

Full Plan Review



Department of Public Safety
DIVISION OF FIRE AND LIFE SAFETY
 Plan Review Bureau – Anchorage
 5700 East Tudor Road
 Anchorage, Alaska 99705-1225
 Main: 907.269.2004
 Fax: 907.269.0098

04/14/2023

Return to Applicant: Gary Spreng
 506 E. Fireweed Lane, Ste A
 Anchorage, AK 99503-2840

SUBJECT: Holiday Stationstore (#650) - Wasilla - Full Plan Review
 ADDRESS: 7751 West Parks Highway
 CITY: Wasilla
 PLAN REVIEW: 2023ANCH0161
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY: M Mercantile
 ADDITIONAL OCCUPANCY: S-1 Storage, moderate hazard
 2021 INTERNATIONAL BUILDING AND FIRE CODE

Dear Gary Spreng:

Plans for the Full Plan Review have been reviewed by this office for conformity with the State Fire Safety Regulations and are hereby approved. Enclosed is a certificate of approval that must be posted on the premises until completion of the above project.

It is prohibited to occupy this building until construction is completed, and if applicable, the Automatic Fire System(s) is installed, tested, and certified as operable. Any changes to the approved plans must be submitted to this office for review and approval.

Approval of submitted plans is not approval of omissions or oversights by this office or noncompliance with any applicable regulations of the Municipal Government. The plans have not been reviewed for compliance with the federal Americans with Disabilities Act or structural requirements.


It must be understood that the inclusion of and compliance with State Fire Safety Regulations does not preclude the necessity of compliance with the requirements of local codes and ordinances.

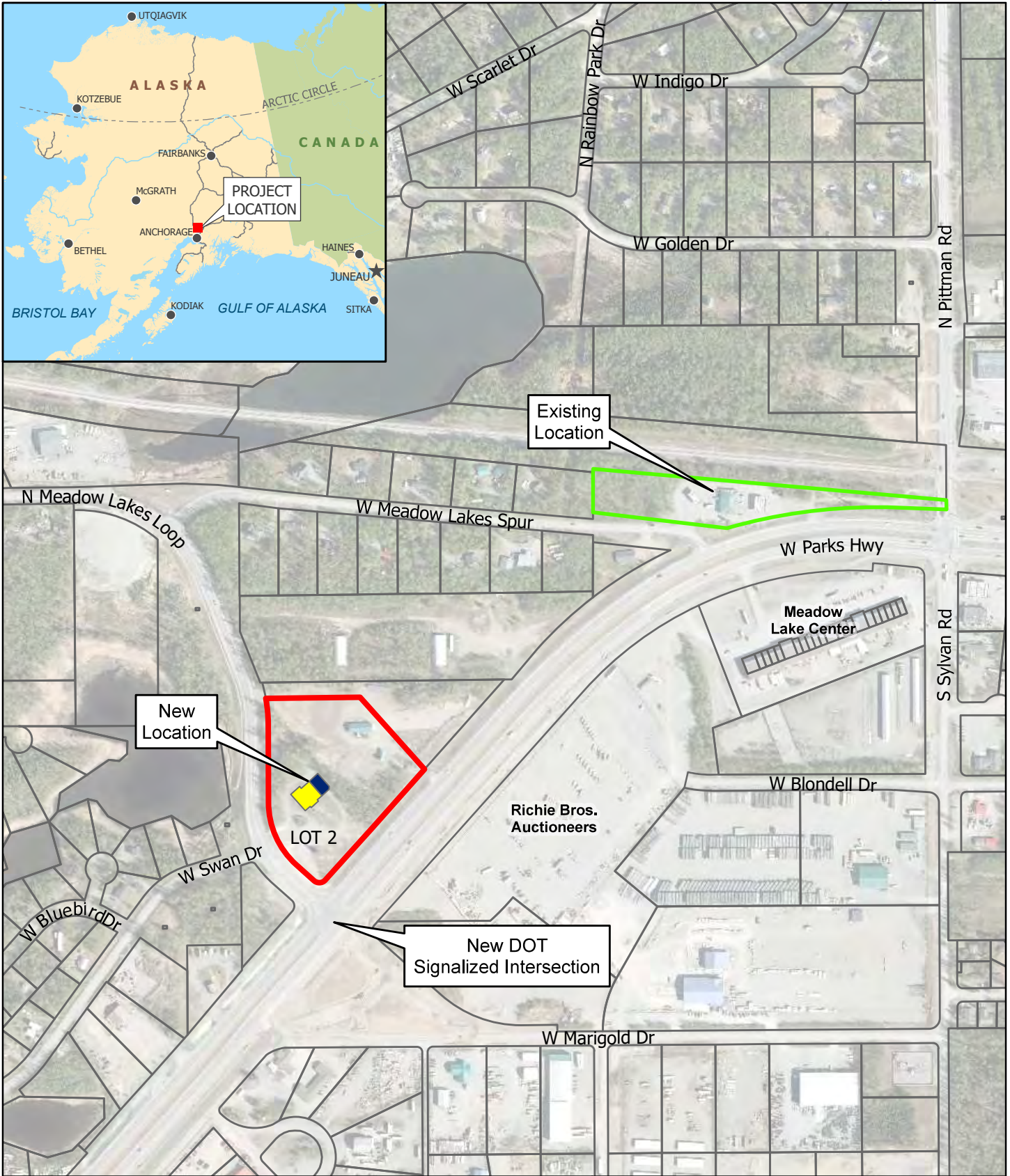
If we can be of further assistance in this matter, please feel free to contact us at the address above.

Approved By:
 Oscar Lage
 Building Plans Examiner I
 oscar.lage@alaska.gov

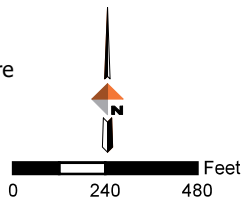
Enclosure: Approval Certificate

APPENDIX 1: MAPS AND PROPERTY INFORMATION

The page features a large, light gray triangle in the bottom-left corner and a large, orange triangle in the bottom-right corner. These two triangles meet at a diagonal line that runs from the bottom-left towards the top-right, creating a dynamic, abstract background design.



- New Holiday Location
- Existing Holiday Location
- Main Store
- Package Liquor Store



Location Vicinity Map

Wasilla Holiday Alcohol CUP

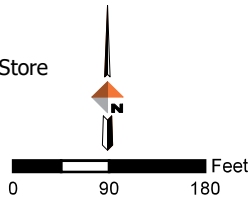


Date: March 2024

Figure 1



- 60' Shared Access Easement
- Main Store
- New Holiday Location
- Package Liquor Store



Site Map

Wasilla Holiday Alcohol CUP



Date: March 2024

Figure 2



New Holiday Location	1ft Contours	 N	Existing Topographic Map	
60' Shared Access Easement	Basic Major		Wasilla Holiday Alcohol CUP	
			Date: March 2024	
			Figure 3	



New Holiday Location	1ft Contours Basic	 	
60' Shared Access Easement	Major		
Existing Drainage Map			
Wasilla Holiday Alcohol CUP			
		Date: March 2024	
		Figure 4	

CERTIFICATE OF OWNERSHIP AND DEDICATION

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED IN THIS PLAN AND THAT I ADOPT THIS PLAN OF SUBDIVISION BY MY FREE CONSENT. I DEDICATE ALL RIGHTS-OF-WAY TO THE MATANUSKA-SUSTINA BOROUGH AND GRANT ALL EASEMENTS TO THE USE SHOWN.

GARY BRANT, VICE PRESIDENT OPERATIONS
HOLIDAY ALASKA, LLC
4557 AMERICAN BOULEVARD W.
BLOOMINGTON, MN 55437

Gary Brant
DATE 11/16/2023

NOTARY ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 11TH DAY OF December 2023, FOR Gary Brant

Shelly A. Schilling
NOTARY FOR THE STATE OF ALASKA
MY COMMISSION EXPIRES 1-31-2026

SHELLY A. SCHILLING
Notary Public-Minnesota
My Commission Expires 01/31/2026

CERTIFICATE OF PAYMENT OF TAXES

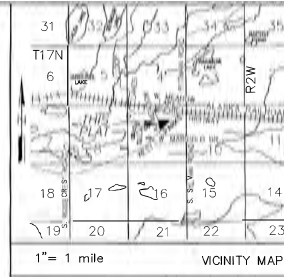
I HEREBY CERTIFY THAT ALL CURRENT TAXES AND SPECIAL ASSESSMENTS, THROUGH December 31, 2024 AGAINST THE PROPERTY, INCLUDED IN THE SUBDIVISION OR RECONSTRUCTION, HERETO HAVE BEEN PAID.

February 13, 2024
Denise Adams
TAX COLLECTION OFFICIAL (MATANUSKA-SUSTINA BOROUGH)

PLANNING AND LAND USE DIRECTOR'S CERTIFICATE

I CERTIFY THAT THIS SUBDIVISION PLAN HAS BEEN FOUND TO COMPLY WITH THE LAND SUBDIVISION REGULATIONS OF THE MATANUSKA-SUSTINA BOROUGH, AND THAT THE PLAN HAS BEEN APPROVED BY THE PLANNING AUTHORITY BY PLAT RESOLUTION NUMBER 2024-018, DATED 8/16/2024, AND THAT THIS PLAN HAS BEEN APPROVED FOR RECORDING IN THE OFFICE OF THE RECORDER IN THE PALMER RECORDING DISTRICT, THIRD JUDICIAL DISTRICT, STATE OF ALASKA IN WHICH THE PLAT IS LOCATED.

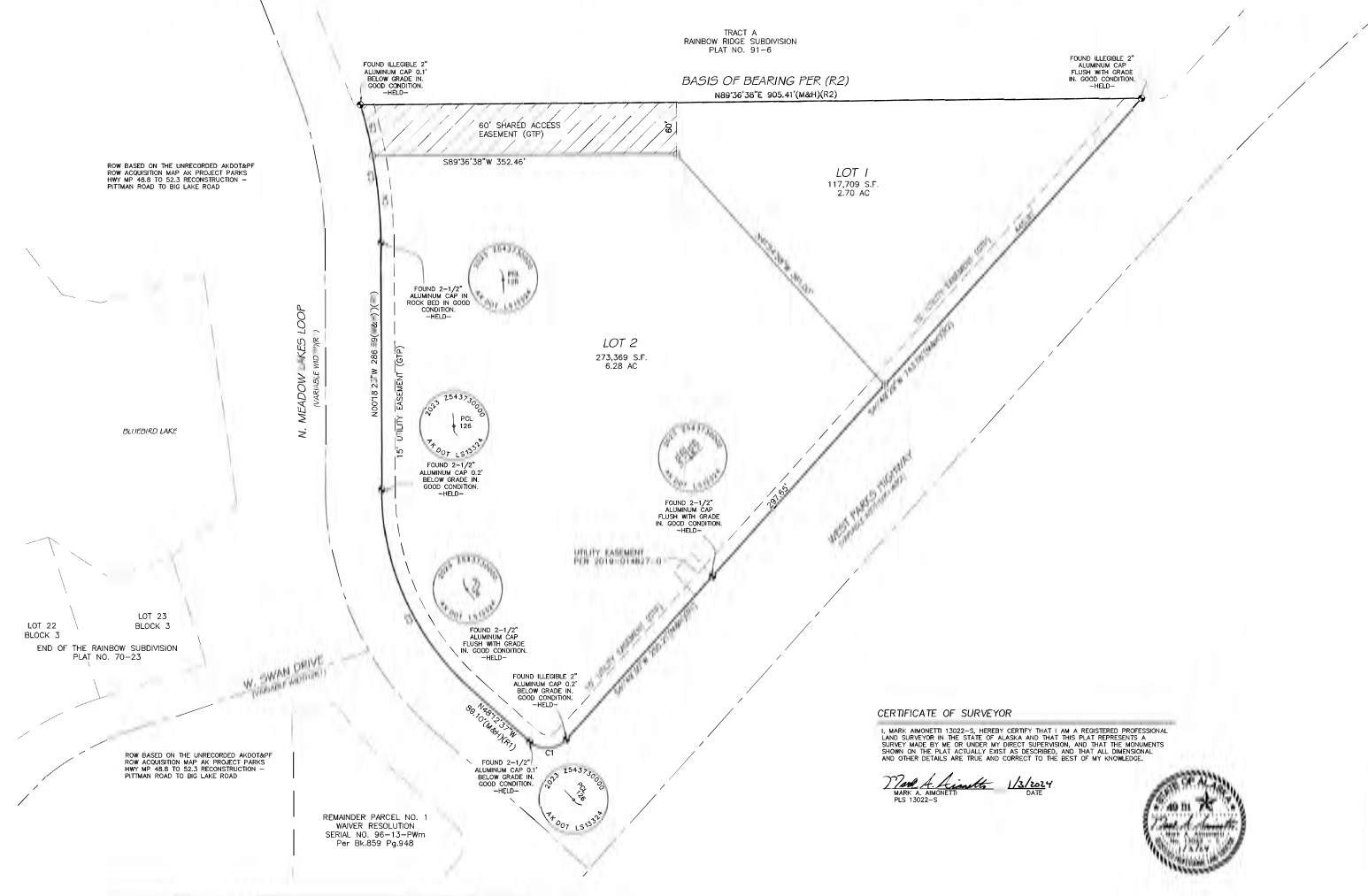
February 13, 2024
Ami Sorenson
PLANNING AND LAND USE DIRECTOR
ATTEST: *Kylet's*
CLERK



CURVE #	RADIUS	DELTA	LENGTH	CHORD DIRECTION	CHORD LENGTH	TANGENT
C1(MANUSK)R1	30.00'	89°57'53"	47.11'	S86°48'27"W	42.41'	29.38'
C2(MANUSK)R1	315.00'	47°54'17"	283.17'	N2°41'52"W	255.77'	139.93'
C3(MANUSK)R2	575.00'	167°5'55"	163.57'	N08°27'18"W	163.00'	82.34'
C4	575.00'	10°09'17"	101.91'	N05°23'02"W	101.78'	51.09'
C5	575.00'	06°08'33"	61.64'	N13°31'57"W	61.61'	30.84'

TRACT A
RAINBOW RIDGE SUBDIVISION
PLAT NO. 91-6

BASIS OF BEARING PER (R2)
N89°36'38"E 905.41'(MANUSK)R2



LEGEND

- ⊙ FOUND MONUMENT AS NOTED
- ⊕ SET 2" ALUMINUM CAP ON 5/8" X 30" REBAR
- (R) RECORD DATA (SEE REFERENCES)
- (GP) GRANTED THIS PLAT
- (M) MEASURED
- (H) HELD
- SUBDIVISION BOUNDARY
- INTERIOR PROPERTY LINE
- CENTERLINE
- EASEMENT LINE AS NOTED
- ADJACENT PROPERTY LINE
- SHARED ACCESS EASEMENT AREA

NOTES

1. THERE MAY BE FEDERAL, STATE, OR LOCAL REQUIREMENTS GOVERNING LAND USE. THE INDIVIDUAL PARCEL OWNER SHALL OBTAIN A DETERMINATION WHETHER THESE REQUIREMENTS APPLY TO THE DEVELOPMENT OF PARCELS SHOWN ON THIS PLAT.
2. DIMENSIONS ON THIS PLAT ARE EXPRESSED IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
3. NO INDIVIDUAL WATER SUPPLY SYSTEM OR SEWAGE DISPOSAL SYSTEM SHALL BE PERMITTED ON ANY LOT UNLESS THE SYSTEM IS LOCATED, CONSTRUCTED, AND EQUIPPED IN ACCORDANCE WITH THE REQUIREMENTS, STANDARDS, AND RECOMMENDATIONS OF THE STATE OF ALASKA, DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WHICH GOVERNS THOSE SYSTEMS.
4. BY GRADING PLATING ONLY, THIS PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THIS PROPERTY IS IN ZONE 2 AN AREA THAT IS ESTIMATED TO BE SUBJECT TO THE 1% ANNUAL CHANCE FLOODING. FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 021700033E BEARING AN EFFECTIVE DATE OF MARCH 17, 2011 WAS USED TO DETERMINE THE FLOOD ZONE. EXACT DESIGNATION CAN ONLY BE DETERMINED BY AN ELEVATION CERTIFICATE.
5. NO ACCESS TO THE PARKS HIGHWAY WILL BE GRANTED UNLESS APPROVED BY THE GOVERNING AGENCY. LOTS 1 & 2 WILL HAVE SHARED ACCESS FROM MEADOW LAKES LOOP.
6. THIS PROPERTY IS SUBJECT TO THE FOLLOWING EASEMENTS THAT ARE BLANKET IN NATURE AND NOT DEPICTED ON THIS MAP:
 MEA RIGHT-OF-WAY EASEMENT RECORDED JULY 18, 1974 UNDER BK 85 PG 333
 MEA RIGHT-OF-WAY EASEMENT RECORDED JANUARY 4, 1984 UNDER BK 139 PG 183
 MEA RIGHT-OF-WAY EASEMENT RECORDED AUGUST 7, 1997 UNDER BK 262 PG 292
 MEA RIGHT-OF-WAY EASEMENT RECORDED SEPTEMBER 19, 1997 UNDER BK 913 PG 523
 MEA RIGHT-OF-WAY EASEMENT RECORDED OCTOBER 24, 2015 AS DOCUMENT NO. 2015-019370-0

REFERENCES

- (R1) 2019-014828-0 AKDOT&PF PARCEL 126 WARRANTY DEED
- (R2) 2019-010600-0 AKDOT&PF PARCEL 125 WARRANTY DEED

CERTIFICATE OF SURVEYOR

I, MARK A. ANONETTI 13022-3, HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF ALASKA AND THAT THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT THE MONUMENTS SHOWN ON THE PLAT ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONAL AND OTHER DETAILS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Mark A. Anonetti
DATE 10/26/2023
MARK A. ANONETTI
P.L.S. 13022-3



2024-15
Plat #
Palmer
REC 212
2/16/2024
DATE
Time 10:38 AM

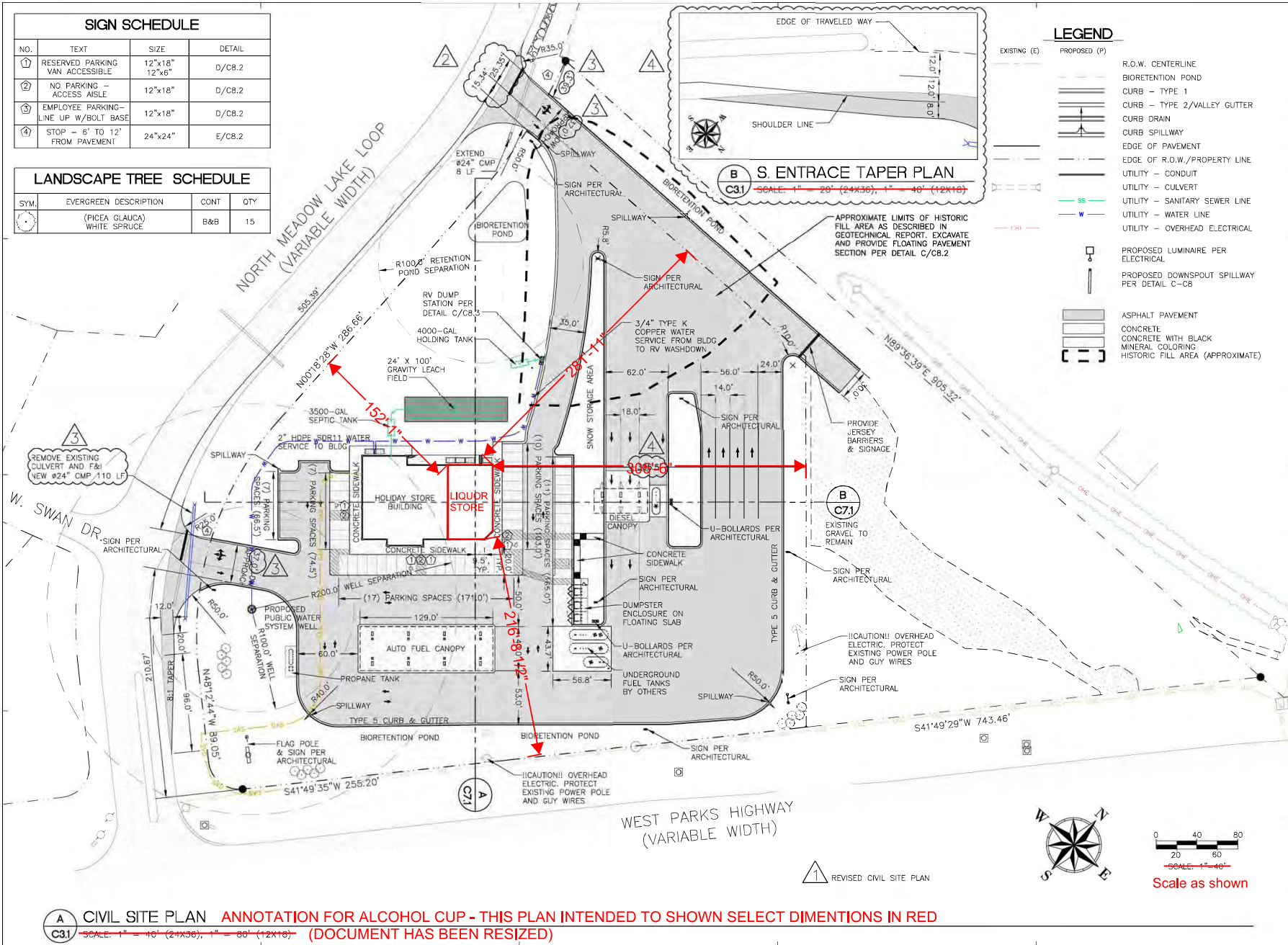
THE PLAT OF
WASILLA HOLIDAY SUBDIVISION
A SUBDIVISION OF PARCELS 1 & 2 OF MSP PARCEL WAIVER
96-13PWN RECORDED IN BK 589 PG 948 AND LOCATED WITHIN
THE SW1/4 NE1/4 OF SECTION 9, T.17N., R.2W., S.M.
IN THE PALMER RECORDING DISTRICT, THIRD JUDICIAL DISTRICT,
STATE OF ALASKA
CONTAINING 8.98 ACRES MORE OR LESS



DRAWN BY: VLB PROJECT # 21-240 PLAT CASE # 2023-092
CHECKED BY: MA DATE: 10/26/2023 SCALE: 1"=60' SHEET 1 OF 1

APPENDIX 2: SITE, BUILDING, AND SIGNAGE PLANS





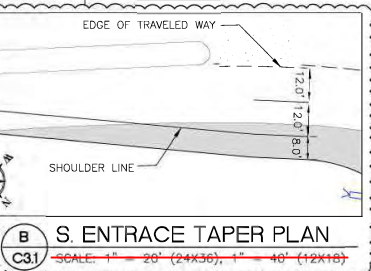
SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
1	RESERVED PARKING VAN ACCESSIBLE	12"x18" 12"x6"	0/C8.2
2	NO PARKING - ACCESS AISLE	12"x18"	0/C8.2
3	EMPLOYEE PARKING- LINE UP W/BOLT BASE	12"x18"	0/C8.2
4	STOP - 6" TO 12" FROM PAVEMENT	24"x24"	E/C8.2

LANDSCAPE TREE SCHEDULE			
SYM.	EVERGREEN DESCRIPTION	CONT	QTY
(Symbol)	(PICEA GLAUCA) WHITE SPRUCE	B&B	15

LEGEND

EXISTING (E) PROPOSED (P)

- R.O.W. CENTERLINE
- BIORETENTION POND
- CURB - TYPE 1
- CURB - TYPE 2/VALLEY GUTTER
- CURB DRAIN
- CURB SPILLWAY
- EDGE OF PAVEMENT
- EDGE OF R.O.W./PROPERTY LINE
- UTILITY - CONDUIT
- UTILITY - CULVERT
- UTILITY - SANITARY SEWER LINE
- UTILITY - WATER LINE
- UTILITY - OVERHEAD ELECTRICAL
- PROPOSED LUMINAIRE PER ELECTRICAL
- PROPOSED DOWNSPOUT SPILLWAY PER DETAIL C-C8
- ASPHALT PAVEMENT
- CONCRETE
- CONCRETE WITH BLACK MINERAL COLORING
- HISTORIC FILL AREA (APPROXIMATE)



NELSON ENGINEERING
165 BIDARSKA STREET
NENAH, ALASKA 99611
907.263.5583
LICENSE NO. 62323

GOVERNMENT NOTICE
This drawing is the property of the above referenced Professional and is not to be used for any purpose other than the specific project and site named herein, and cannot be reprinted or any manner without the consent written permission from the Professional.

3/7/23 P-160-20
9/7/23 P-360-1
12/7/23 P-353-1
9/1/24 P-353-4

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
M.D. PROJECT MANAGER
N.Z. QUALITY CONTROL
M.Z. DRAWN BY
M.Z.

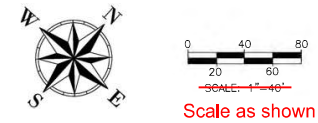
PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSITNA CO

Holiday

PROJECT NUMBER
014764.40
SHEET TITLE

CIVIL SITE PLAN
SHEET NUMBER
C-3.1

A CIVIL SITE PLAN ANNOTATION FOR ALCOHOL CUP - THIS PLAN INTENDED TO SHOWN SELECT DIMENTIONS IN RED (DOCUMENT HAS BEEN RESIZED)
SCALE: 1" = 40' (24x36), 1" = 80' (12x18)



△ REVISED CIVIL SITE PLAN

PROJECT DIRECTORY

ALL QUESTIONS RELATED TO BIDDING AND CONSTRUCTION OF THIS PROJECT SHALL BE DIRECTED TO HOLIDAY COMPANIES PROJECT MANAGER:

OWNER

HOLIDAY ALASKA LLC
4567 AMERICAN BOULEVARD
MINNEAPOLIS, MN, 55437

CIVIL ENGINEER & LANDSCAPE ARCHITECT

NELSON ENGINEERING
155 BIDARKA STREET
KENAI, AK
907-283-3583

ARCHITECT

SPRENG ASSOCIATES
506 E. FIREWEED LN, STE A
ANCHORAGE, AK
907-563-5141

STRUCTURAL ENGINEER

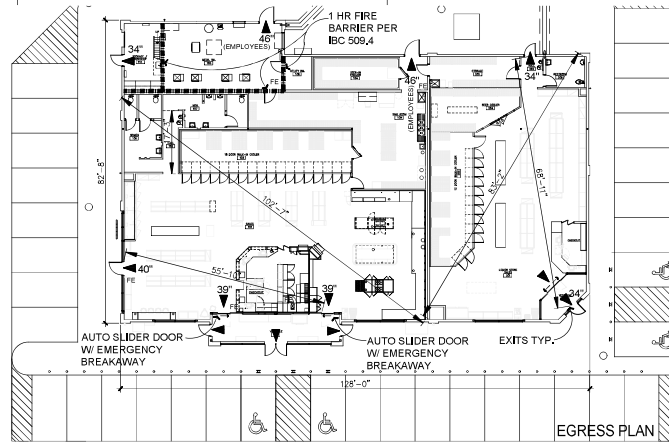
NELSON ENGINEERING
155 BIDARKA STREET
KENAI, AK
907-283-3583

MECHANICAL & ELECTRICAL ENGINEER

RSA ENGINEERING INC
670 W FIREWEED LN, STE 200
ANCHORAGE, AK
907-276-0521

PETROLEUM CONSULTANT

HEIDEMAN CONSULTING
P.O. BOX 260124
MADISON, WI
608-445-5650



SITE



LOCATION MAP



**CIRCLE K
STATIONSTORE**

7751 WEST PARKS HWY
WASILLA, ALASKA 99623



XX/KX/23 PERM/BD SET

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

PROJECT MANAGER

QUALITY CONTROL

DRAWN BY

PROJECT NAME

**CIRCLE K
STORES INC.
STORE #650**

**WASILLA
ALASKA**

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



CIRCLE K STORES INC.

PROJECT NUMBER
014764.40

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T1.1

SHEET INDEX

T.1.1	TITLE SHEET	STRUCTURAL
		S1.1 NOTES & SPECIFICATIONS S1.2 SPECIAL INSPECTION S1.3 SPECIAL INSPECTION S1.4 STRUCTURAL SCHEDULE S2.1 FOUNDATION PLAN S2.2 ROOF-FRAMING PLAN S3.1 BUILDING SECTIONS S4.1 TRUSS PROFILES S4.2 TRUSS PROFILES S5.1 DETAILS S5.2 DETAILS S6.1 DETAILS S6.2 DETAILS
		MECHANICAL & ELECTRICAL
		M1 HVAC PLAN P0 PLUMBING PLAN - DRAIN LOCATIONS P1 PLUMBING PLAN PM1A WASTE AND VENT ISOMETRIC PM1B DOMESTIC WATER ISOMETRIC PM2 MECHANICAL DETAILS PM3 MECHANICAL SCHEDULES AND DETAILS PME1 MECHANICAL / ELECTRICAL SCHEDULES PME2 MECHANICAL / ELECTRICAL SCHEDULES E0 ELECTRICAL SITE PLAN E1 LIGHTING PLAN E2 POWER & SYSTEMS PLAN E3 ROOF PLAN E4 RISER DIAGRAM & PANELBOARD SCHEDULES E5 LIGHT FIXTURE SCHEDULE & DETAILS E6 ELECTRICAL SITE LIGHTING & PHOTOMETRICS E7 HAZARDOUS BOUNDARY PLAN
		PETROLEUM
		21 of 21 HEIDEMAN CONSULTING PETROLEUM DRAWINGS
CIVIL		
C-1.1	GENERAL NOTES	
C-2.1	DEMOLITION PLAN	
C-3.1	CIVIL SITE PLAN	
C-4.1	SITE LAYOUT	
C-4.2	SITE LAYOUT COORDINATE SCHEDULE	
C-5.1	GRADING PLAN	
C-6.1	UTILITY PLAN	
C-7.1	TYPICAL SITE SECTIONS	
C-8.1	TYPICAL DETAILS	
C-8.2	TYPICAL DETAILS	
C-8.3	TYPICAL DETAILS	
C-8.4	TYPICAL DETAILS	
C-8.5	TYPICAL DETAILS	
C-8.6	TYPICAL DETAILS	
SWP-1	SWPPP PLAN	
SWP-2	SWPPP DETAILS	
	ARCHITECTURAL	
A1.1	GAS CANOPY ELEVATIONS & DETAILS	
A1.2	GAS CANOPY ELEVATIONS & DETAILS	
A1.3	TRASH ENCLOSURE & SITE DETAILS	
A2.1	FLOOR PLAN	
A2.2	FLOOR PLAN KEYNOTES / WALL TYPES	
A2.3	ROOF PLAN / DETAILS	
A3.1	EXTERIOR ELEVATIONS	
A4.1	BUILDING SECTIONS	
A4.2	WALL SECTIONS	
A4.3	WALL SECTIONS	
A4.4	WALL SECTIONS	
A4.5	WALL SECTIONS & DETAILS	
A5.1	DOOR & WINDOW SCHEDULE / DETAILS	
A6.1	REFLECTED CEILING PLAN / DETAILS	
A7.1	FINISH PLAN / SCHEDULE / INTERIOR DETAILS	
A7.2	CONV. STORE INTERIOR ELEVATIONS	
A7.3	LIQUOR STORE INTERIOR ELEVATIONS	
F1	STORE FIXTURE PLAN	

CODE SUMMARY

A. ALASKA ADMINISTRATIVE CODE (A.A.C.), TITLE 13, INCORPORATING THE FOLLOWING, WITH AMENDMENTS VIA ORDINANCE AS APPLIES	1. 2021 INTERNATIONAL BUILDING CODE (IBC)	5. 2017 NATIONAL ELECTRIC CODE (NEC) / TITLE 8 A.A.C.
	2. 2015 UNIFORM PLUMBING CODE / TITLE 8 A.A.C.	6. 2021 INTERNATIONAL FIRE CODE (IFC)
	3. 2021 INTERNATIONAL MECHANICAL CODE (IMC)	7. 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
	4. 2021 INTERNATIONAL FUEL GAS CODE	8. ACCESSIBILITY CODE - ICC A117.1 - 2017 STANDARD
B. OCCUPANCY CLASSIFICATION (IBC SECTION 302)		MIXED OCCUPANCY NON-SEPARATED B - BUSINESS M - MERCANTILE S-1 - STORAGE
a. CONVENIENCE STORE - M - MERCANTILE		6,740 SF
b. LIQUOR STORE - M - MERCANTILE		3,163 SF
c. TOTAL		9,903 SF
C. CONSTRUCTION TYPE (IBC SECTION 602)		V-B, NON-SPRINKLERED
D. BUILDING SEPARATION		GREATER THAN 30 FEET ON FOUR SIDES
1. ALLOWABLE AREA (SECTION 506 AREA MODIFICATIONS)		
a. BASIC ALLOWABLE FLOOR AREA (SAME FOR B, M, S-1)		9,900 SF
b. INCREASE FOR FRONTAGE (3 SIDES)		FRONTAGE: $I_F = 100 \left[\frac{421}{421} - 0.25 \right] \frac{30}{30} = 75\%$
c. TOTAL ALLOWABLE AREA		$A_a = 9000 \left[\frac{9,900 \cdot 75}{100} \right] = 15,750$ SF PER BLDG.
d. ACTUAL AREA		9,903 SF
2. ALLOWABLE STORIES (IBC SECTION 504.2)		ONE STORY
a. ALLOWABLE NUMBER OF STORIES (IBC TABLE 503)		ONE STORY
3. ALLOWABLE HEIGHT (IBC SECTION 504.2)		40'-0"
a. ACTUAL HEIGHT (IBC TABLE 503)		21'-8"
4. EXTERIOR WALL PROTECTION (IBC TABLE 602)		2 HOUR FIRE RESISTANCE RATING 1 HOUR FIRE RESISTANCE RATING 0 HOUR FIRE RESISTANCE RATING
5. FIRE RESISTIVE REQUIREMENTS (IBC TABLE 601)		a. STRUCTURAL FRAME b. BEARING WALLS - INTERIOR & EXTERIOR c. NON-BEARING WALLS - INTERIOR & EXTERIOR d. FLOOR CONSTRUCTION - INCLUDING SUPPORTING BEAMS & JOISTS e. ROOF CONSTRUCTION - INCLUDING SUPPORTING BEAMS & JOISTS
E. OCCUPANT LOAD (IBC TABLE 1004.1.1)		
CONVENIENCE STORE		
a. SALES AREA - 3,599 SF @ 30 SF/OCC.		120 OCCUPANTS
b. STORAGE / SINK ROOM / UTILITY / RESTROOMS - 3,141 SF @ 300 SF/OCC.		10 OCCUPANTS
c. TOTAL		130 OCCUPANTS
LIQUOR STORE		
a. SALES AREA - 2,194 SF @ 30 SF/OCC.		73 OCCUPANTS
b. STORAGE / STOCK / RESTROOMS - 369 SF @ 300 SF/OCC.		3 OCCUPANTS
c. TOTAL		76 OCCUPANTS
F. NO. OF EXITS REQUIRED		
a. SEE EGRESS PLAN ABOVE FOR EXIT ARRANGEMENT		2 REQ. - 26" MIN. PROVIDED - 118" TOTAL EXIT WIDTH @ SALES FLOOR
b. CONVENIENCE STORE - 130 OCCUPANTS x .20		2 REQ. - 15.2" MIN. PROVIDED - 68" TOTAL EXIT WIDTH @ SALES FLOOR
c. LIQUOR STORE - 76 OCCUPANTS x .20		
G. MAXIMUM TRAVEL DISTANCE (IBC TABLE 1016.1)		
a. NON-SPRINKLERED - B, M, S-1 OCCUPANCY:		200 FT.
H. PLUMBING FIXTURES (IBC TABLE 2002.1)		
CONVENIENCE STORE		
a. WATER CLOSETS & URINALS (1 PER 500 PER SEX)		130 OCCUPANTS (85/65)
b. LAVATORIES (1 PER 750 PER SEX)		2 REQ'D / 5 PROVIDED (2 WOMEN / 2 MEN)
c. DRINKING FOUNTAINS (1 PER 1000)		2 REQ'D / 4 PROVIDED (2 WOMEN / 2 MEN)
d. SERVICE SINK		1 REQ'D / 2 PROVIDED
LIQUOR STORE		
a. WATER CLOSETS & URINALS (UN-SEX LESS THAN 100)		76 OCCUPANTS (38/38)
b. LAVATORIES (UN-SEX LESS THAN 100)		1 UN-SEX REQ'D / PROVIDED
c. DRINKING FOUNTAINS (1 PER 1000)		1 UN-SEX REQ'D / PROVIDED
d. SERVICE SINK		1 REQ'D / 2 PROVIDED

DEMOLITION PLAN NOTES:

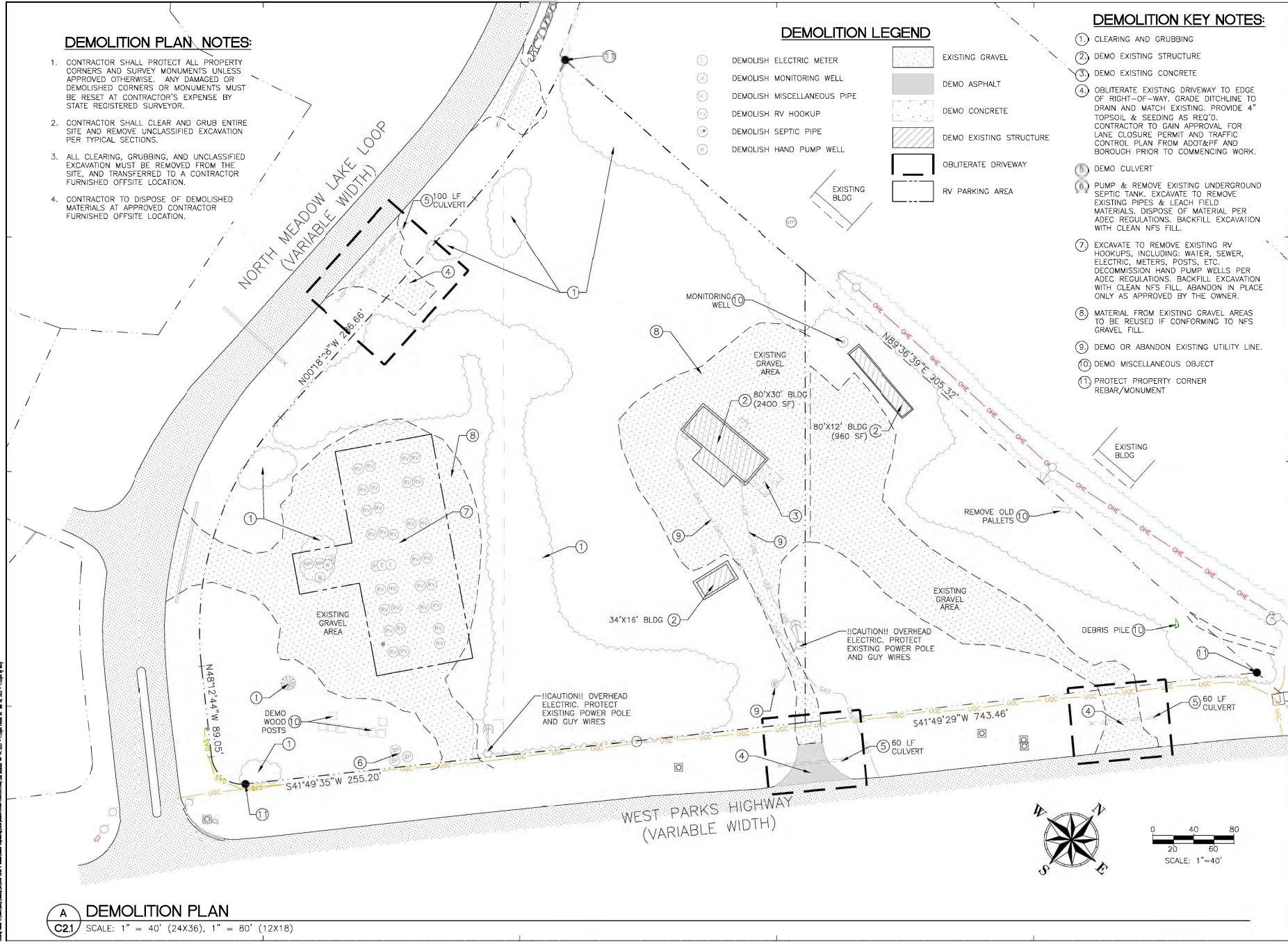
1. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS AND SURVEY MONUMENTS UNLESS APPROVED OTHERWISE. ANY DAMAGED OR DEMOLISHED CORNERS OR MONUMENTS MUST BE RESET AT CONTRACTOR'S EXPENSE BY STATE REGISTERED SURVEYOR.
2. CONTRACTOR SHALL CLEAR AND GRUB ENTIRE SITE AND REMOVE UNCLASSIFIED EXCAVATION PER TYPICAL SECTIONS.
3. ALL CLEARING, GRUBBING, AND UNCLASSIFIED EXCAVATION MUST BE REMOVED FROM THE SITE, AND TRANSFERRED TO A CONTRACTOR FURNISHED OFFSITE LOCATION.
4. CONTRACTOR TO DISPOSE OF DEMOLISHED MATERIALS AT APPROVED CONTRACTOR FURNISHED OFFSITE LOCATION.

DEMOLITION LEGEND

- | | | | |
|---|-----------------------------|-----------|-------------------------|
| ⊖ | DEMOLISH ELECTRIC METER | [Pattern] | EXISTING GRAVEL |
| ⊙ | DEMOLISH MONITORING WELL | [Pattern] | DEMO ASPHALT |
| ⊖ | DEMOLISH MISCELLANEOUS PIPE | [Pattern] | DEMO CONCRETE |
| ⊙ | DEMOLISH RV HOOKUP | [Pattern] | DEMO EXISTING STRUCTURE |
| ⊖ | DEMOLISH SEPTIC PIPE | [Pattern] | OBBLITERATE DRIVEWAY |
| ⊙ | DEMOLISH HAND PUMP WELL | [Pattern] | RV PARKING AREA |

DEMOLITION KEY NOTES:

1. CLEARING AND GRUBBING
2. DEMO EXISTING STRUCTURE
3. DEMO EXISTING CONCRETE
4. OBBLITERATE EXISTING DRIVEWAY TO EDGE OF RIGHT-OF-WAY. GRADE DITCHLINE TO DRAIN AND MATCH EXISTING. PROVIDE 4" TOPSOIL & SEEDING AS REQ'D.
CONTRACTOR TO GAIN APPROVAL FOR LANE CLOSURE PERMIT AND TRAFFIC CONTROL PLAN FROM ADOT&PF AND BOROUGH PRIOR TO COMMENCING WORK.
5. DEMO CULTVERT
6. PUMP & REMOVE EXISTING UNDERGROUND SEPTIC TANK. EXCAVATE TO REMOVE EXISTING PIPES & LEACH FIELD MATERIALS. DISPOSE OF MATERIAL PER ADEC REGULATIONS. BACKFILL EXCAVATION WITH CLEAN NFS FILL.
7. EXCAVATE TO REMOVE EXISTING RV HOOKUPS, INCLUDING: WATER, SEWER, ELECTRIC, METERS, POSTS, ETC. DECOMMISSION HAND PUMP WELLS PER ADEC REGULATIONS. BACKFILL EXCAVATION WITH CLEAN NFS FILL. ABANDON IN PLACE ONLY AS APPROVED BY THE OWNER.
8. MATERIAL FROM EXISTING GRAVEL AREAS TO BE REUSED IF CONFORMING TO NFS GRAVEL FILL.
9. DEMO OR ABANDON EXISTING UTILITY LINE.
10. DEMO MISCELLANEOUS OBJECT
11. PROTECT PROPERTY CORNER REBAR/MONUMENT



NELSON ENGINEERING
 155 BUDARCA STREET
 WASILLA, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 45522-02

COPYRIGHT NOTICE
 This drawing is the property of the above referenced Professional and is not to be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PERM/PROJ 581

PROFESSIONAL SEAL

 PROFESSIONAL IN CHARGE
 M.D.
 PROJECT MANAGER
 MZD
 QUALITY CONTROL
 MZD/MJD
 DRAWN BY
 MZD

PROJECT NAME
CIRCLE K STORES INC. STORE #650 WASILLA ALASKA
 7751 WEST PARKS HWY WASILLA, ALASKA 99623
 MATANUSKA-SUSITNA CO

Holiday
 PROJECT NUMBER 014764.40
 SHEET TITLE
DEMOLITION PLAN
 SHEET NUMBER
C-2.1

A **DEMOLITION PLAN**
C21 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



100 SEDAWKA STREET
KENAI, ALASKA 99551
(907) 283-2553
LEONARD@NELSON-ENG.COM

COPYRIGHT NOTICE
This drawing is the property of the above
referenced Professional and shall be loaned
project and site named herein, and cannot
be reproduced in any manner without the
express written permission from the Professional.

REVISION HISTORY

3/7/23	PERM/NO SET
5/31/23	REVISION 1
9/3/23	REVISION 2
12/14/23	REVISION 3
3/11/24	REVISION 4

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

WJD
PROJECT MANAGER
WJD
QUALITY CONTROL
WJD/WJD
DRAWN BY
WJD

PROJECT NAME

**CIRCLE K
STORES INC.
STORE #650
WASILLA
ALASKA**

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSITNA CO



Holiday

PROJECT NUMBER
014764.40

SHEET TITLE

CIVIL SITE PLAN

SHEET NUMBER

C-3-1

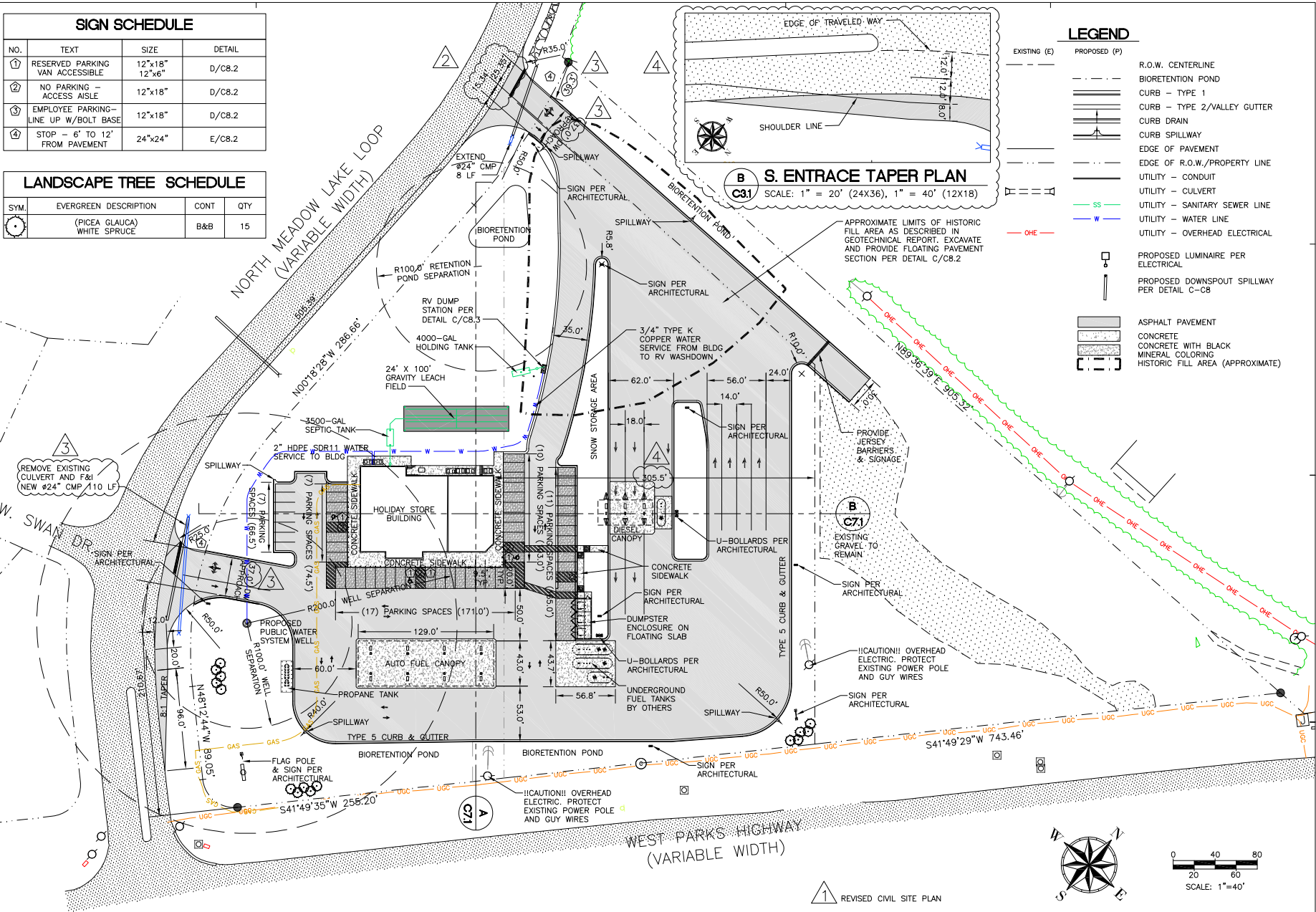
SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
①	RESERVED PARKING VAN ACCESSIBLE	12"x18" 12"x6"	D/C8.2
②	NO PARKING ACCESS AISLE	12"x18"	D/C8.2
③	EMPLOYEE PARKING LINE UP W/BOLT BASE	12"x18"	D/C8.2
④	STOP - 6" TO 12" FROM PAVEMENT	24"x24"	E/C8.2

LANDSCAPE TREE SCHEDULE			
SYM.	EVERGREEN DESCRIPTION	CONT	QTY
	(PICEA GLAUC) WHITE SPRUCE	B&B	15

LEGEND

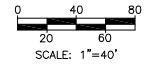
EXISTING (E)	PROPOSED (P)
- - - - -	---
-----	-----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----
----	----

ASPHALT PAVEMENT
CONCRETE
CONCRETE WITH BLACK MINERAL COLORING
HISTORIC FILL AREA (APPROXIMATE)

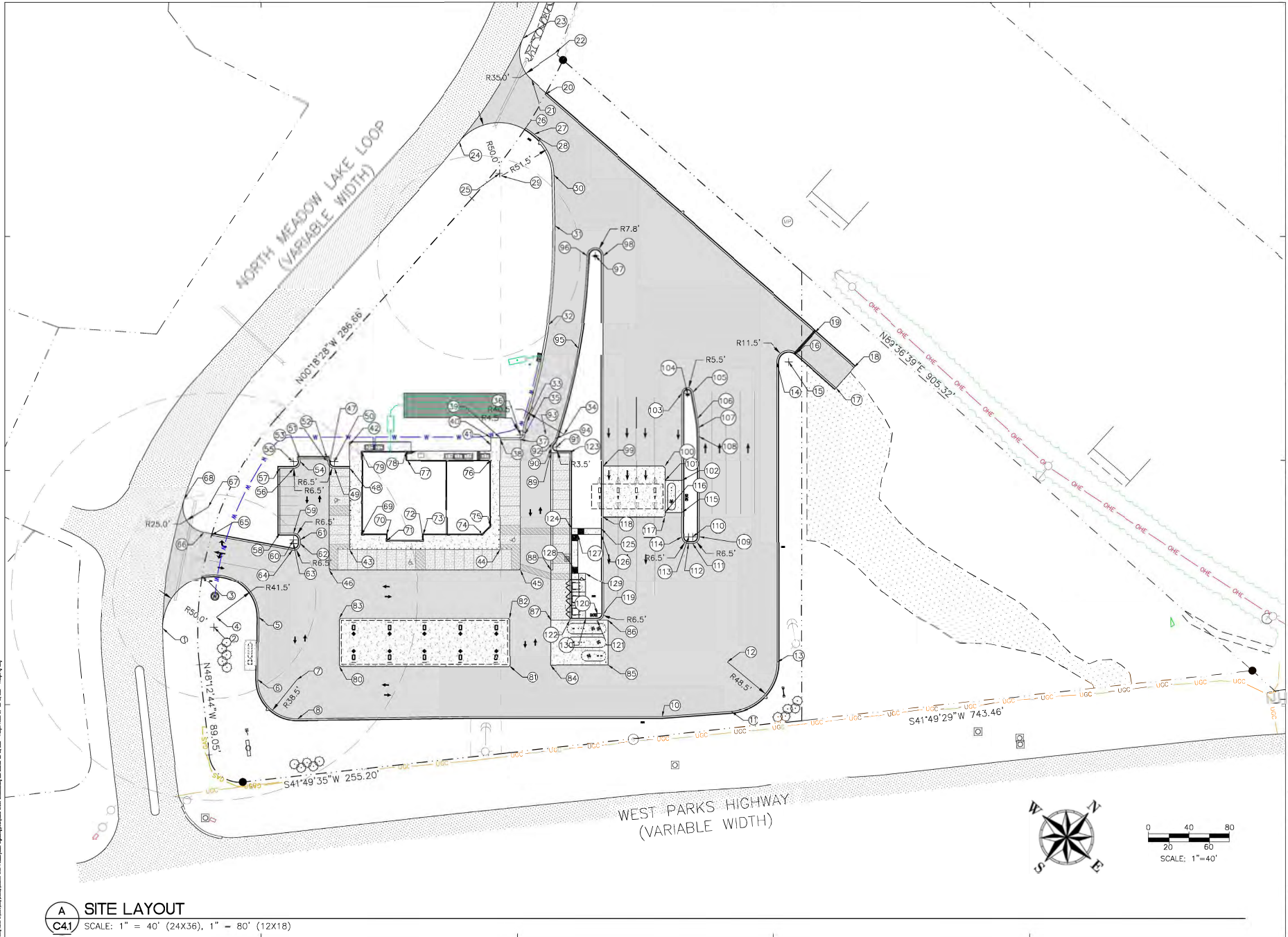


A CIVIL SITE PLAN THIS SHEET ONLY - REVISED 3.11.2024
C31 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)

① REVISED CIVIL SITE PLAN



3/11/2024 1:28:09 PM 115 of 446



CONVEYANCE NOTICE
 This drawing is the property of the above referenced Professional and is to be used only for the project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PERM/ISS 5/1

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

PROJECT MANAGER
 MJD
QUALITY CONTROL
 MJD/MJD
DRAWN BY
 MJD

PROJECT NAME

CIRCLE K STORES INC. STORE #650 WASILLA ALASKA

7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO



Holiday

PROJECT NUMBER
 014764.40

SHEET TITLE

SITE LAYOUT

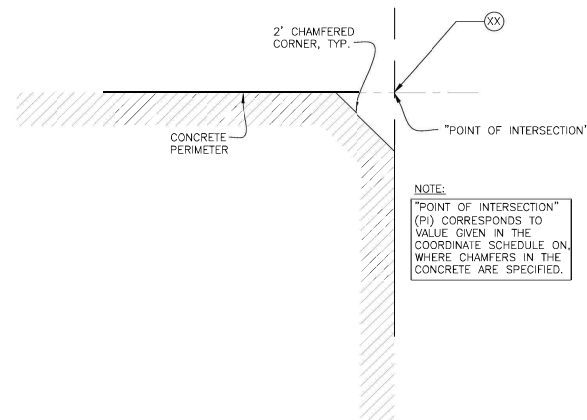
SHEET NUMBER

C-4.1

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
1	PT	2769389.77	1702054.62
2	CENTER OF RADIUS	2769423.91	1702091.16
3	PT	2769453.69	1702049.06
4	CENTER OF RADIUS	2769432.74	1702086.43
5	PT	2769460.26	1702117.49
6	PT	2769414.72	1702157.83
7	CENTER OF RADIUS	2769440.25	1702186.66
8	PT	2769411.98	1702212.79
9	PT	2769527.42	1702337.65
10	PT	2769653.65	1702478.25
11	PT	2769702.74	1702525.43
12	CENTER OF RADIUS	2769736.33	1702490.48
13	PT	2769768.75	1702526.55
14	PT	2769988.15	1702329.59
15	CENTER OF RADIUS	2769995.83	1702338.14
16	PT	2770007.33	1702338.05
17	PT	2770007.73	1702389.73
18	PT	2770034.73	1702389.52
19	PT	2770034.33	1702337.84
20	PT	2770031.58	1701984.46
21	PT	2770032.92	1701984.72
22	CENTER OF RADIUS	2770067.92	1701984.44
23	PT	2770057.46	1701931.04
24	PT	2769939.88	1701952.38
25	CENTER OF RADIUS	2769943.21	1702002.25
26	PT	2769993.64	1701991.77
27	PT	2769994.71	1702001.84
28	PT	2769994.74	1702005.57
29	CENTER OF RADIUS	2769943.24	1702005.97
30	PT	2769978.39	1702043.61
31	PT	2769941.93	1702077.65
32	RADIUS MID-POINT	2769865.48	1702138.17
33	PT	2769778.35	1702185.87
34	CENTER OF RADIUS	2769795.22	1702220.94
35	PT	2769769.56	1702192.24
36	CENTER OF RADIUS	2769765.95	1702189.44
37	PT	2769762.60	1702192.44
38	PT	2769749.39	1702177.73
39	EDGE OF CONCRETE	2769750.88	1702176.39
40	EDGE OF CONCRETE	2769744.87	1702189.70
41	EDGE OF CONCRETE	2769739.53	1702174.49
42	EDGE OF CONCRETE	2769646.45	1702070.80
43	EDGE OF CONCRETE	2769569.93	1702139.50
44	EDGE OF CONCRETE	2769669.02	1702249.88
45	PI CONCRETE	2769667.50	1702278.12
46	PI CONCRETE	2769541.89	1702137.98
47	EDGE OF CONCRETE	2769617.47	1702069.94
48	PT	2769629.09	1702086.39
49	PT	2769619.07	1702075.23
50	CENTER OF RADIUS	2769623.90	1702070.89

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
51	PT	2769619.56	1702066.05
52	PT	2769622.17	1702063.71
53	PT	2769604.13	1702043.62
54	PT	2769601.53	1702045.96
55	CENTER OF RADIUS	2769597.18	1702041.12
56	PT	2769592.35	1702045.47
57	PT	2769583.33	1702035.42
58	PT	2769536.08	1702077.84
59	PT	2769545.09	1702087.89
60	CENTER OF RADIUS	2769540.26	1702092.23
61	PT	2769544.60	1702097.07
62	PT	2769541.88	1702099.51
63	CENTER OF RADIUS	2769537.54	1702094.67
64	PT	2769532.00	1702098.07
65	PT	2769489.84	1702029.40
66	PT	2769486.94	1702021.79
67	CENTER OF RADIUS	2769508.13	1702008.53
68	PT	2769497.91	1701985.71
69	BUILDING CORNER	2769588.27	1702138.72
70	BUILDING CORNER	2769604.77	1702156.60
71	BUILDING CORNER	2769599.71	1702160.70
72	BUILDING CORNER	2769624.21	1702187.98
73	BUILDING CORNER	2769628.82	1702183.39
74	BUILDING CORNER	2769668.29	1702227.86
75	BUILDING CORNER	2769679.89	1702228.48
76	BUILDING CORNER	2769728.59	1702184.75
77	BUILDING CORNER	2769672.68	1702122.97
78	BUILDING CORNER	2769679.84	1702116.98
79	BUILDING CORNER	2769649.78	1702083.49
80	PI CONCRETE	2769477.79	1702209.01
81	PI CONCRETE	2769590.02	1702334.02
82	PI CONCRETE	2769624.99	1702302.62
83	PI CONCRETE	2769512.76	1702177.61
84	EDGE OF CONCRETE	2769617.93	1702362.94
85	EDGE OF CONCRETE	2769655.85	1702405.18
86	EDGE OF CONCRETE	2769688.39	1702375.97
87	EDGE OF CONCRETE	2769650.47	1702333.73
88	EDGE OF CONCRETE	2769687.54	1702300.45
89	PT	2769773.25	1702223.50
90	PT	2769776.48	1702220.80
91	CENTER OF RADIUS	2769790.94	1702223.83
92	PT	2769781.58	1702218.36
93	CENTER OF RADIUS	2769782.75	1702206.43
94	PT	2769786.76	1702217.59
95	RADIUS MID-POINT	2769867.49	1702174.96
96	PT	2769941.21	1702121.11
97	CENTER OF RADIUS	2769946.31	1702126.97
98	PT	2769951.40	1702132.83
99	EDGE OF CONCRETE	2769797.63	1702270.85
100	PI CONCRETE	2769838.03	1702315.86

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
101	EDGE OF CONCRETE	2769827.63	1702325.19
102	EDGE OF CONCRETE	2769838.65	1702337.47
103	PT	2769902.43	1702280.21
104	CENTER OF RADIUS	2769906.11	1702284.31
105	PT	2769910.44	1702287.70
106	PT	2769894.31	1702308.28
107	RADIUS MID-POINT	2769888.54	1702315.01
108	PT	2769882.22	1702321.21
109	PT	2769808.97	1702386.97
110	CENTER OF RADIUS	2769804.52	1702382.23
111	PT	2769799.68	1702386.57
112	PT	2769797.01	1702383.60
113	CENTER OF RADIUS	2769801.84	1702379.25
114	PT	2769797.50	1702374.42
115	EDGE OF CONCRETE	2769815.55	1702358.21
116	EDGE OF CONCRETE	2769804.53	1702345.93
117	PI CONCRETE	2769800.82	1702349.26
118	EDGE OF CONCRETE	2769780.42	1702304.25
119	PT	2769889.71	1702367.71
120	CENTER OF RADIUS	2769885.37	1702362.87
121	PT	2769880.53	1702367.21
122	EDGE OF CONCRETE	2769862.83	1702347.49
123	EDGE OF CONCRETE	2769785.61	1702327.27
124	EDGE OF CONCRETE	2769731.51	1702288.52
125	EDGE OF CONCRETE	2769750.89	1702310.11
126	EDGE OF CONCRETE	2769746.43	1702314.12
127	EDGE OF CONCRETE	2769731.05	1702297.00
128	EDGE OF CONCRETE	2769702.78	1702322.38
129	EDGE OF CONCRETE	2769707.79	1702327.96
130	EDGE OF CONCRETE	2769674.67	1702357.69



A LAYOUT COORDINATE SCHEDULE
SCALE: NTS

B CHAMFERED CORNER COORDINATE
SCALE: NTS

NELSON ENGINEERING
155 BUDAKA STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 40522-024

COPYRIGHT NOTICE
The drawings are the property of the above referenced Professional and shall not be used for any purpose other than the specific project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/ JMS/ SSI

PROFESSIONAL SEAL
Matthew D. Nelson
REGISTERED PROFESSIONAL ENGINEER
STATE OF ALASKA
LICENSE NO. 10459

PROFESSIONAL IN CHARGE
MJD
PROJECT MANAGER
MJD
QUALITY CONTROL
MJD/MJD
DRAWN BY
MJD

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSITNA CO

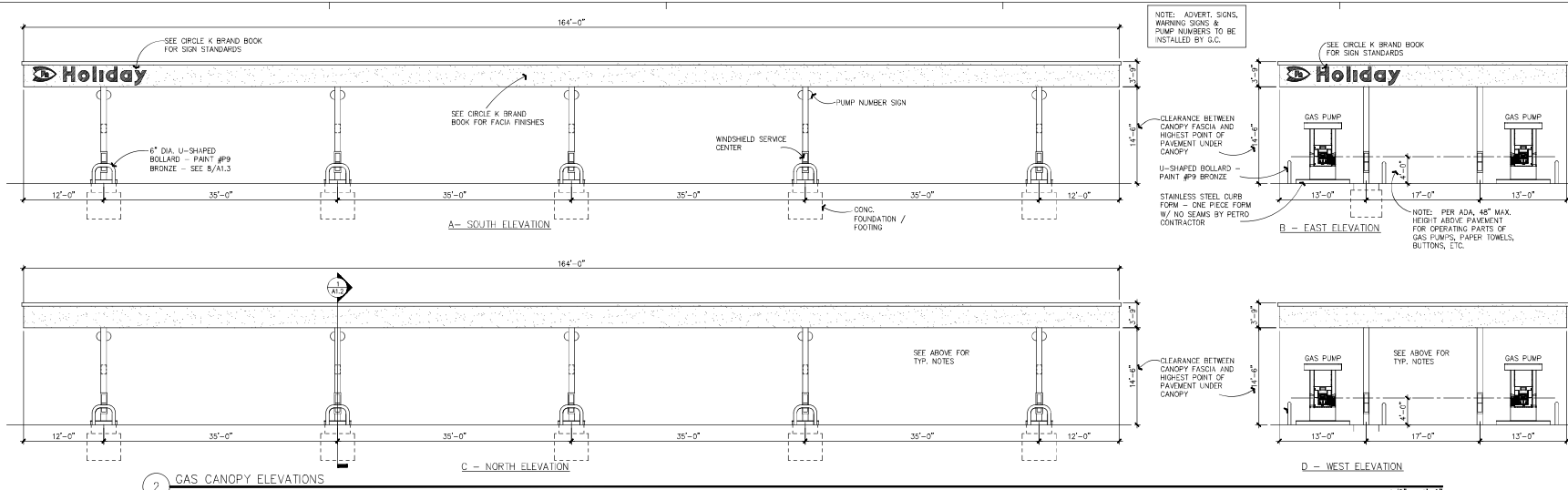
Holiday

PROJECT NUMBER
014764.40

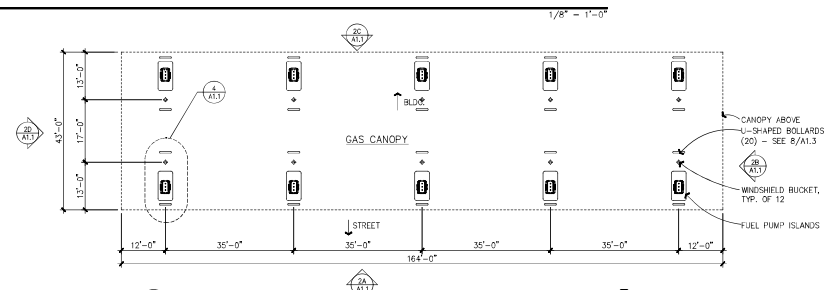
SHEET TITLE
SITE LAYOUT COORDINATE SCHEDULE

SHEET NUMBER
C-4,2

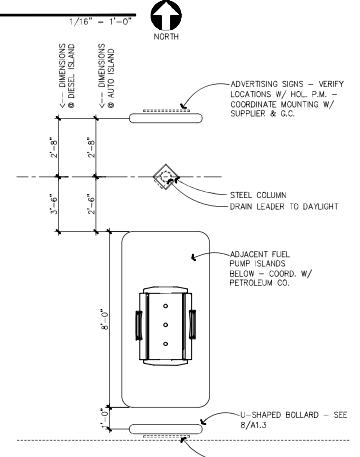
5200 NATIONAL PROTOTYPE



2 GAS CANOPY ELEVATIONS



3 GAS CANOPY PLAN



4 GAS CANOPY DETAIL

SEE CIVIL FOR SITE PLAN



KX/KI/23 PERM/30 SET



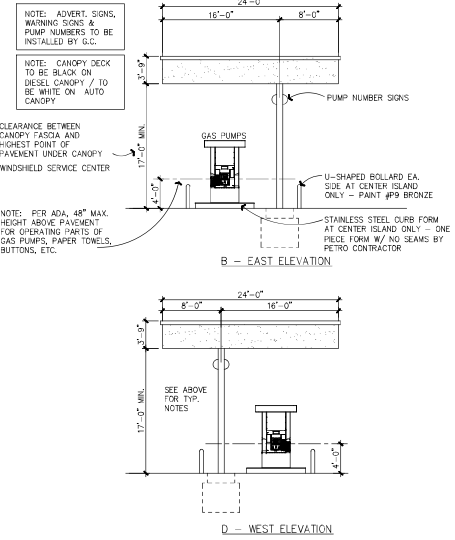
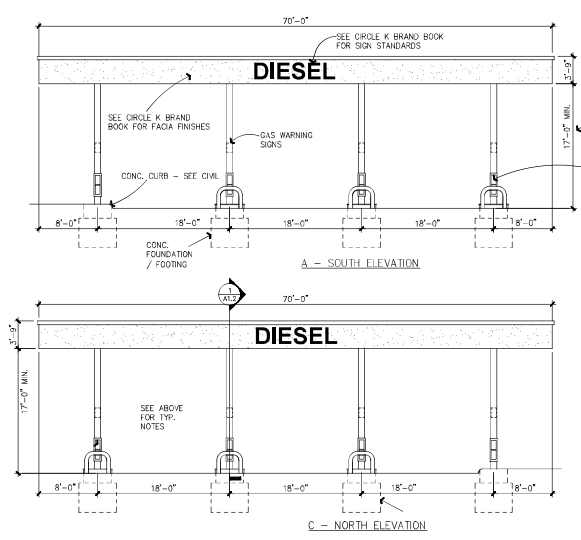
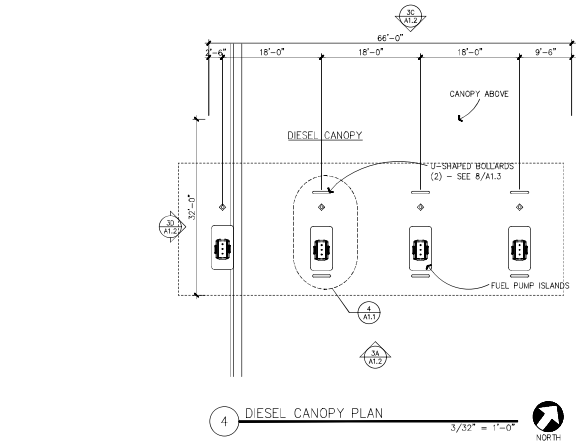
PROFESSIONAL SEAL
 PROFESSIONAL IN CHARGE
 PROJECT MANAGER
 QUALITY CONTROL
 DRAWN BY

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSITNA CO

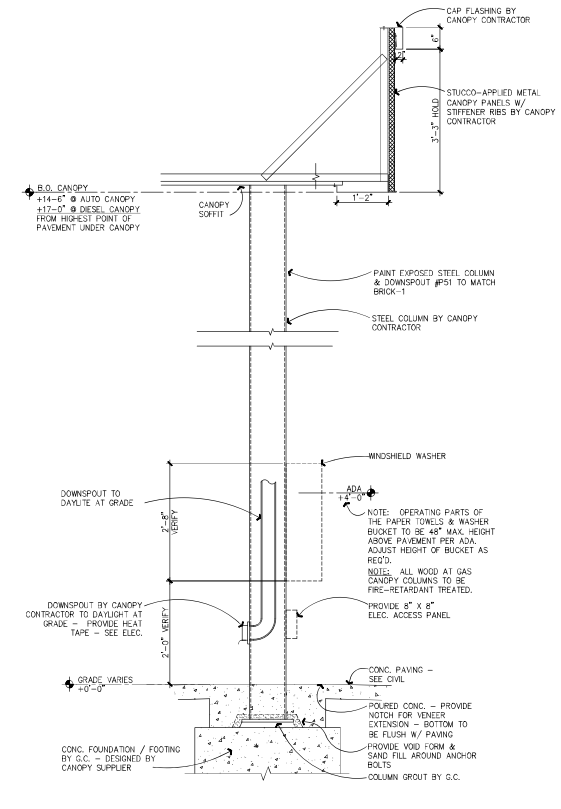


CIRCLE K STORES INC.
 PROJECT NUMBER
 014764.40
 SHEET TITLE
 GAS CANOPY ELEVATIONS

SHEET NUMBER
A1.1



3 DIESEL CANOPY ELEVATIONS
1/8" = 1'-0"



1 CANOPY PIER SECTION
3/4" = 1'-0"



KX/KI/23 PERM/80 SET



PROFESSIONAL IN CHARGE
PROJECT MANAGER
QUALITY CONTROL
DRAWN BY

PROJECT NAME
CIRCLE K STORES INC.
STORE #650
WASILLA
ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO

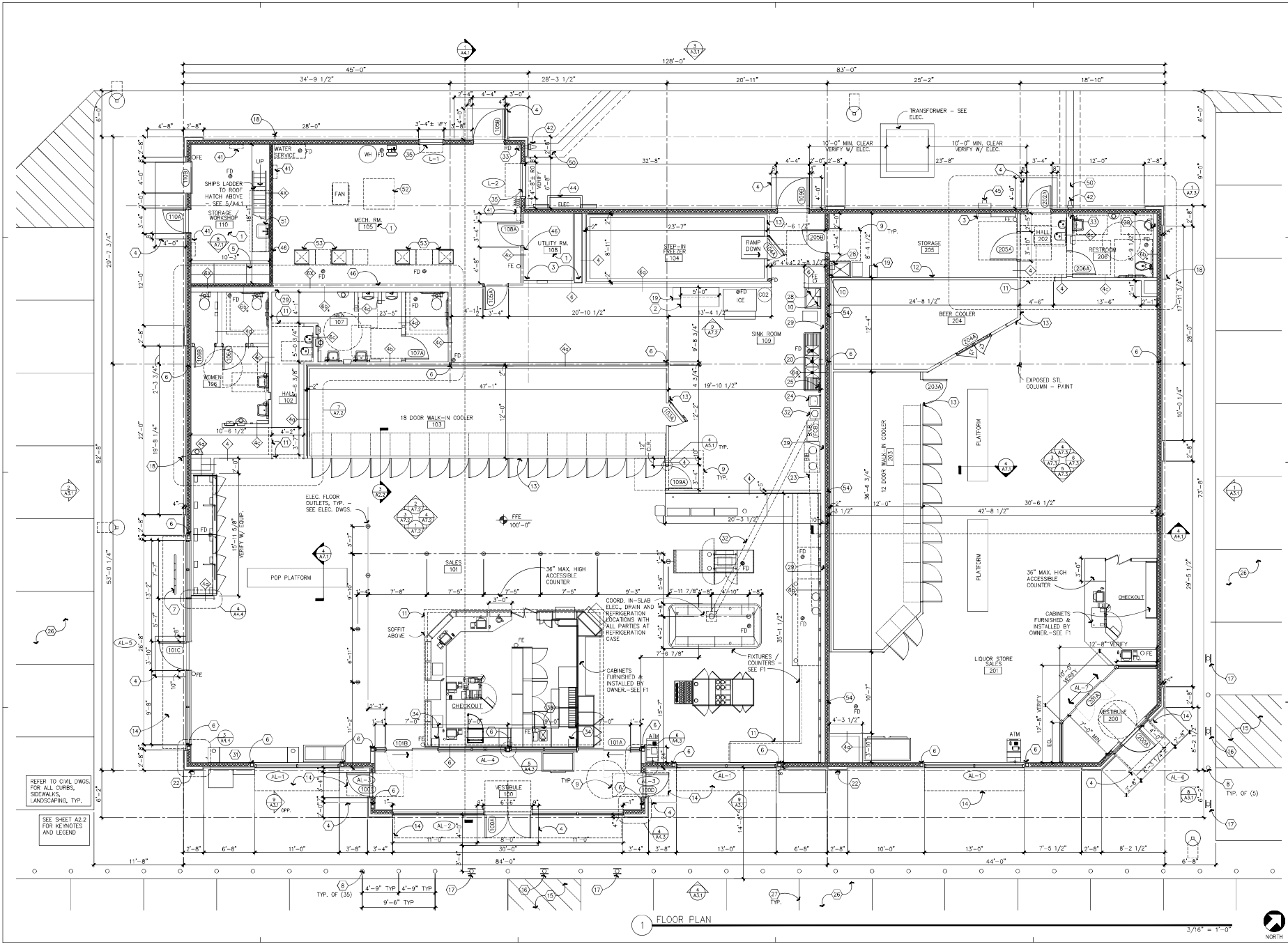


PROJECT NUMBER
014764.40

SHEET TITLE
GAS CANOPY ELEVATIONS AND DETAILS

SHEET NUMBER

A1.2



XX/XX/23 PERM/BD SET



PROFESSIONAL IN CHARGE
PROJECT MANAGER
QUALITY CONTROL
DRAWN BY

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA

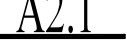
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



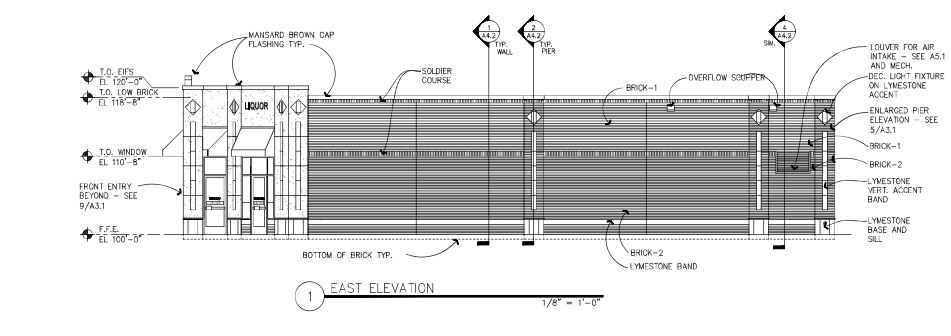
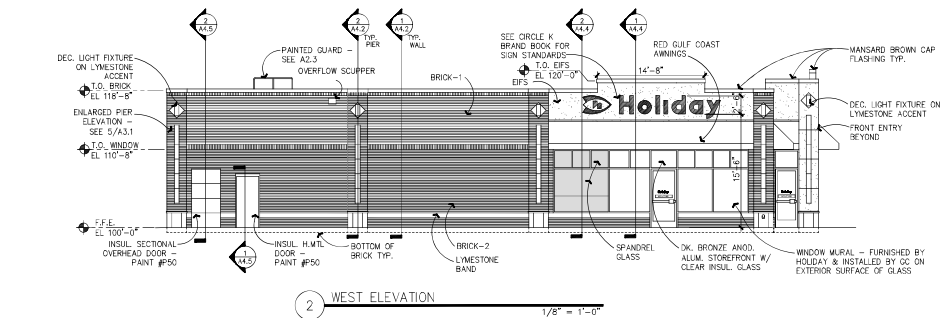
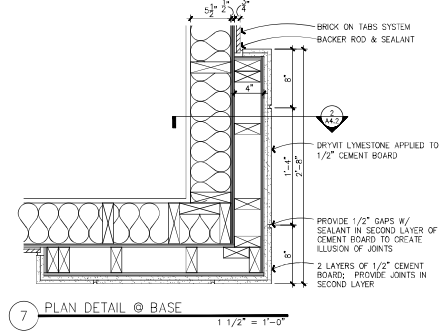
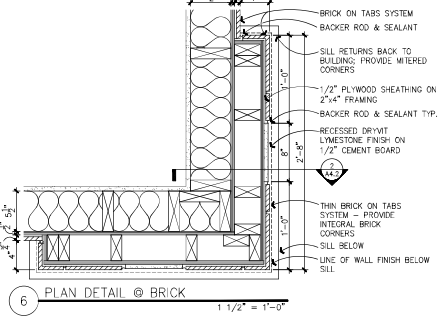
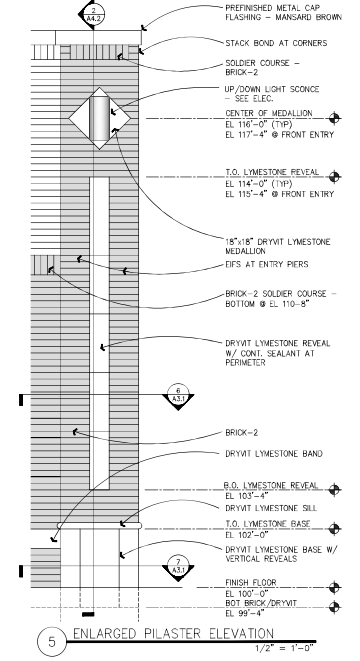
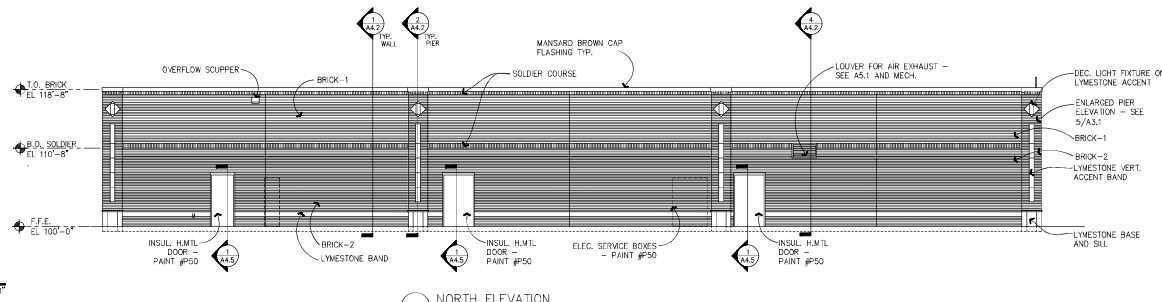
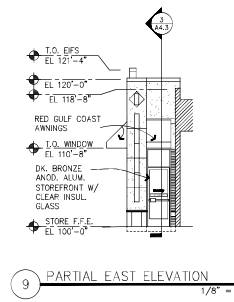
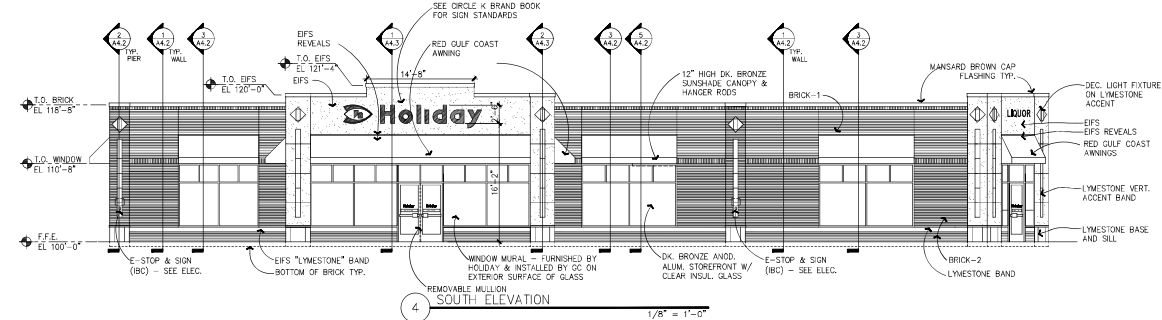
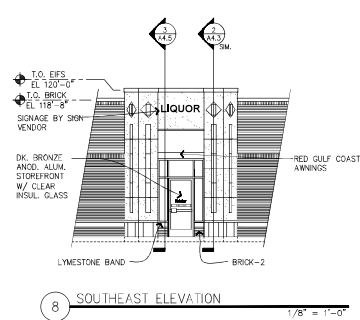
PROJECT NUMBER
014764.40
SHEET TITLE

FLOOR PLAN

SHEET NUMBER
A2.1



- NOTES AND EXTERIOR MATERIALS LEGEND**
- BRICK-1 (LHM): ENDICOTT DESERT (RONSPOT) LIGHT VELOUR (MODULAR / THIN BRICK)
 - BRICK-2 (DARK): ENDICOTT MEDIUM (RONSPOT) #79 (MODULAR / THIN BRICK)
 - EFS (ENTRY): DRYVIT #112 "SANDLEWOOD BEIGE", SANDPEBBLE TEXTURE
 - DRYVIT LYMESTONE PILASTER BASES, BANDS, REVEALS AND MEDALLIONS - #104 DRYVIT DRY, LYMESTONE TEXTURE
 - WALL CAP FLASHING (BIRD & GAS CANYON): PREFINISHED METAL - COLOR: UNA-CLAD "MANSARD BROWN" UN/O. / "SIERRA TAN" WHERE NOTED
 - ALUM. SUNSHADE CANYONS: PREFINISHED METAL - COLOR: "DARK BRONZE" ANODIZED
 - ALUM. STOREFRONT: DARK BRONZE ANODIZED
- GENERAL NOTES:**
- SEPARATE PERMIT REQUIRED FOR SIGNAGE. COORD. W/ OWNER & SIGN COMPANY.
 - EXTERIOR HW DOORS & FRAMES TO BE PAINTED #P50.
 - REFER TO SHEET A7.1 FOR PAINT COLORS.
 - PROVIDE BACKER ROD & SEALANT CONTROL JOINTS AT ALL MATERIAL CHANGES AND AT INSIDE CORNERS OF ALL PROJECTING BRICK PIERS.
 - PROVIDE KNOX BOX AS REQUIRED BY CITY.
 - PROVIDE ADDRESS NUMBERS AS REQUIRED BY CITY - VERIFY SIZE AND LOCATION.
 - APPLY SAFETY FILM TO WINDOWS & DOOR GLASS AS SHOWN ON SHEET A5.1.
 - PROVIDE BRICK STACK BOND PATTERN AT SOLDIER COURSE CORNERS.



XX/XX/23 PERM/BD SET



PROFESSIONAL IN CHARGE
PROJECT MANAGER
QUALITY CONTROL
DRAWN BY

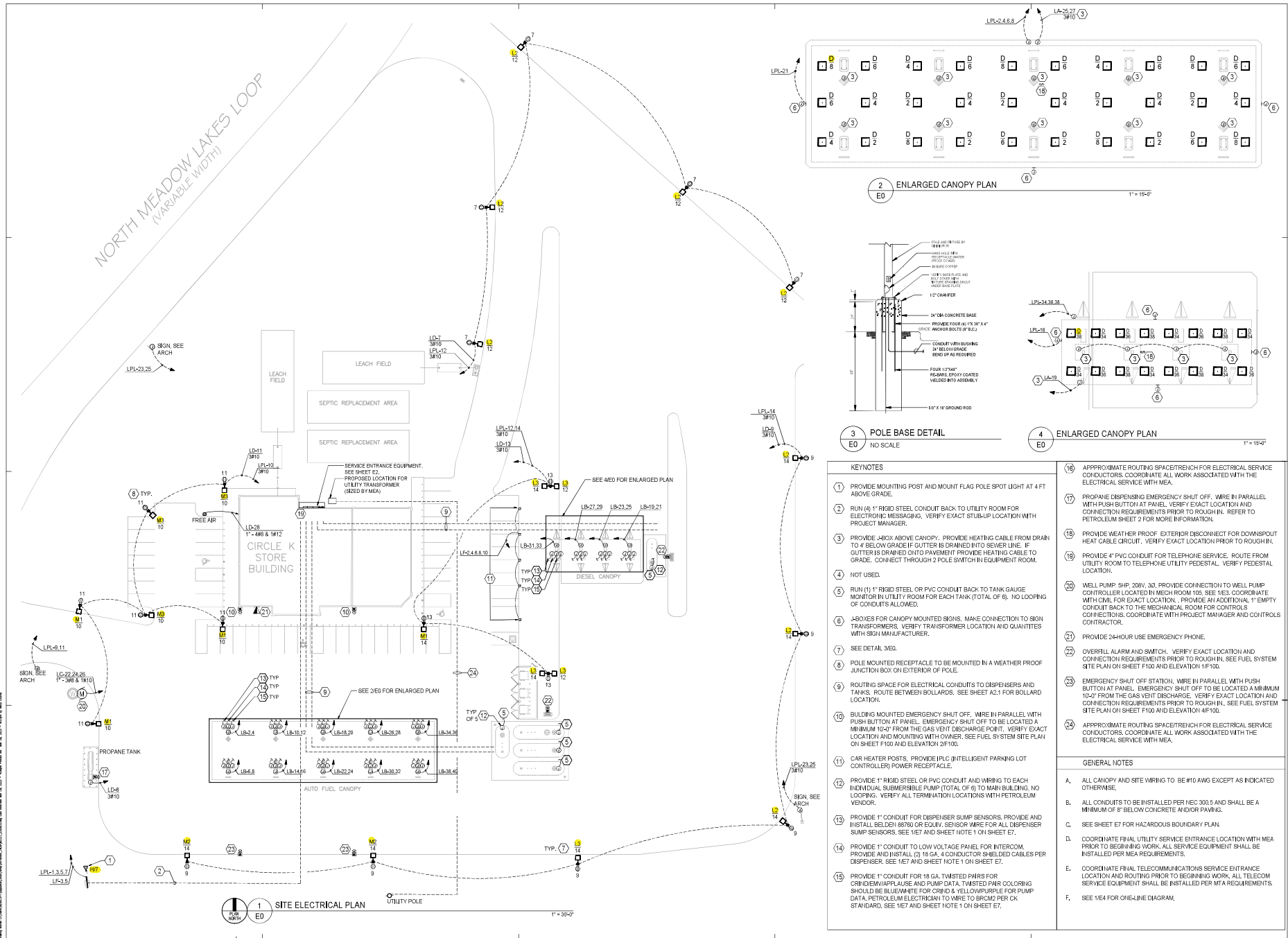
PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



PROJECT NUMBER
014764.40

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A3.1



RSA
Mechanical and Electrical Consulting Engineers
810 West Frenzel Lane, Suite 200
Anchorage, AK 99501
(907) 764-5271
Corporate No. ADEC0342

copyright notice
This drawing is the property of the above referenced Professional and is not to be loaned, copied, reproduced, or otherwise used for any project and the normal terms, and cannot be reproduced in any manner without the express written permission from the Professional.

3/7/23 PERM SET

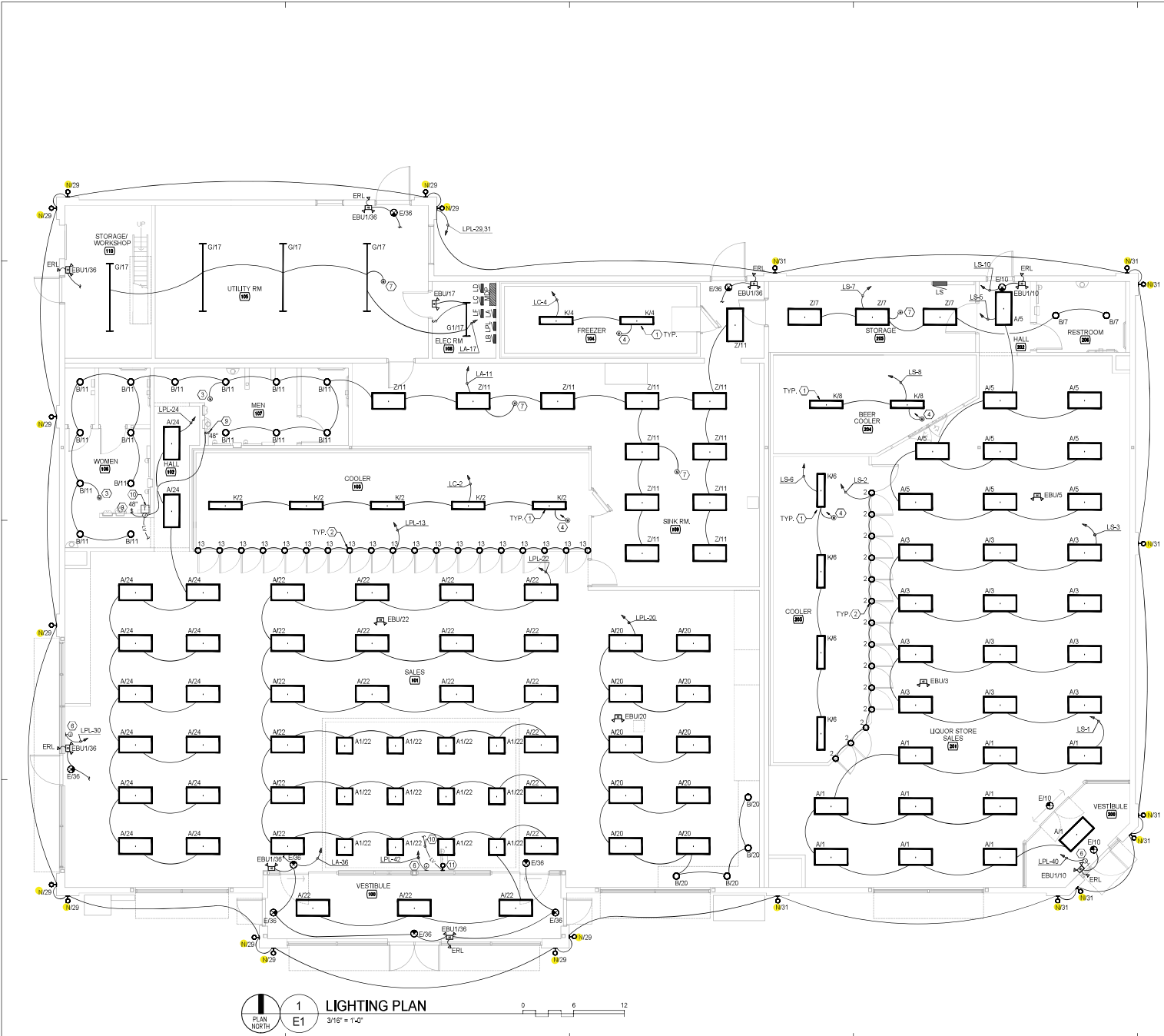


PROFESSIONAL SEAL
PROFESSIONAL IN CHARGE
CIC
PROJECT MANAGER
BPP
QUALITY CONTROL
PCC
DRAWN BY
BIC

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



CIRCLE K STORES INC.
RSA PROJECT NUMBER
M2221
SHEET TITLE
ELECTRICAL SITE PLAN
SHEET NUMBER
E0



GENERAL NOTES

- A. EXTERIOR BUILDING AND CANOPY CIRCUITING TO BE #10 AWG.
- KEY NOTES
- 1) COOLER / FREEZER LIGHTS FURNISHED WITH EQUIPMENT, CIRCUIT AS SHOWN, SEE LIGHT FIXTURE SCHEDULE ON SHEET ES.
- 2) DOOR LIGHTS PROVIDED BY EQUIPMENT MANUFACTURER, PROVIDE 120V UNSWITCHED POWER CONNECTION.
- 3) PROVIDE WATT STOPPER W650A OCCUPANCY SENSOR AND MAKE CONNECTION TO LIGHTS IN THIS ROOM.
- 4) PROVIDE WATT STOPPER CB4004 1 A/1250-P OCCUPANCY SENSOR AND MAKE CONNECTION TO LIGHTS IN THIS ROOM.
- 5) NOT USED.
- 6) PROVIDE 120V POWER CONNECTION FOR EXTERIOR HOLIDAY SIGNAL, VERIFY EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
- 7) PROVIDE WATT STOPPER W2000A OCCUPANCY SENSOR AND MAKE CONNECTION TO LIGHTS IN THIS ROOM.
- 8) NOT USED.
- 9) PROVIDE SWITCH TO CONTROL 'CLEANING' LIGHT AT SALES COUNTER, VERIFY LOCATION WITH ARCHITECTURAL.
- 10) PROVIDE SQUARE D D90750013 120V/24V TRANSFORMER, MOUNT TRANSFORMER ABOVE TOILET ROOMS, CONNECT TO 24V PILOT LIGHT AT SALES COUNTER, SEE NOTE 11, CONTROLLED BY SWITCHES IN TOILET ROOMS.
- 11) PROVIDE SQUARE D 9846V66 PILOT LIGHT WITH LEVITON 84914 COVER PLATE AT SALES COUNTER, MOUNT ABOVE COUNTER, VERIFY FINAL LOCATION WITH OWNER.



PROFESSIONAL SEAL
PROFESSIONAL IN CHARGE
C. J. F.
PROJECT MANAGER
BPP
QUALITY CONTROL
PCC
DRAWN BY
BC

PROJECT NAME
CIRCLE K STORES INC. STORE #650 WASILLA ALASKA

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSITNA CO



CIRCLE K STORES INC.
M2221

RSA PROJECT NUMBER
M2221
SHEET TITLE
LIGHTING PLAN

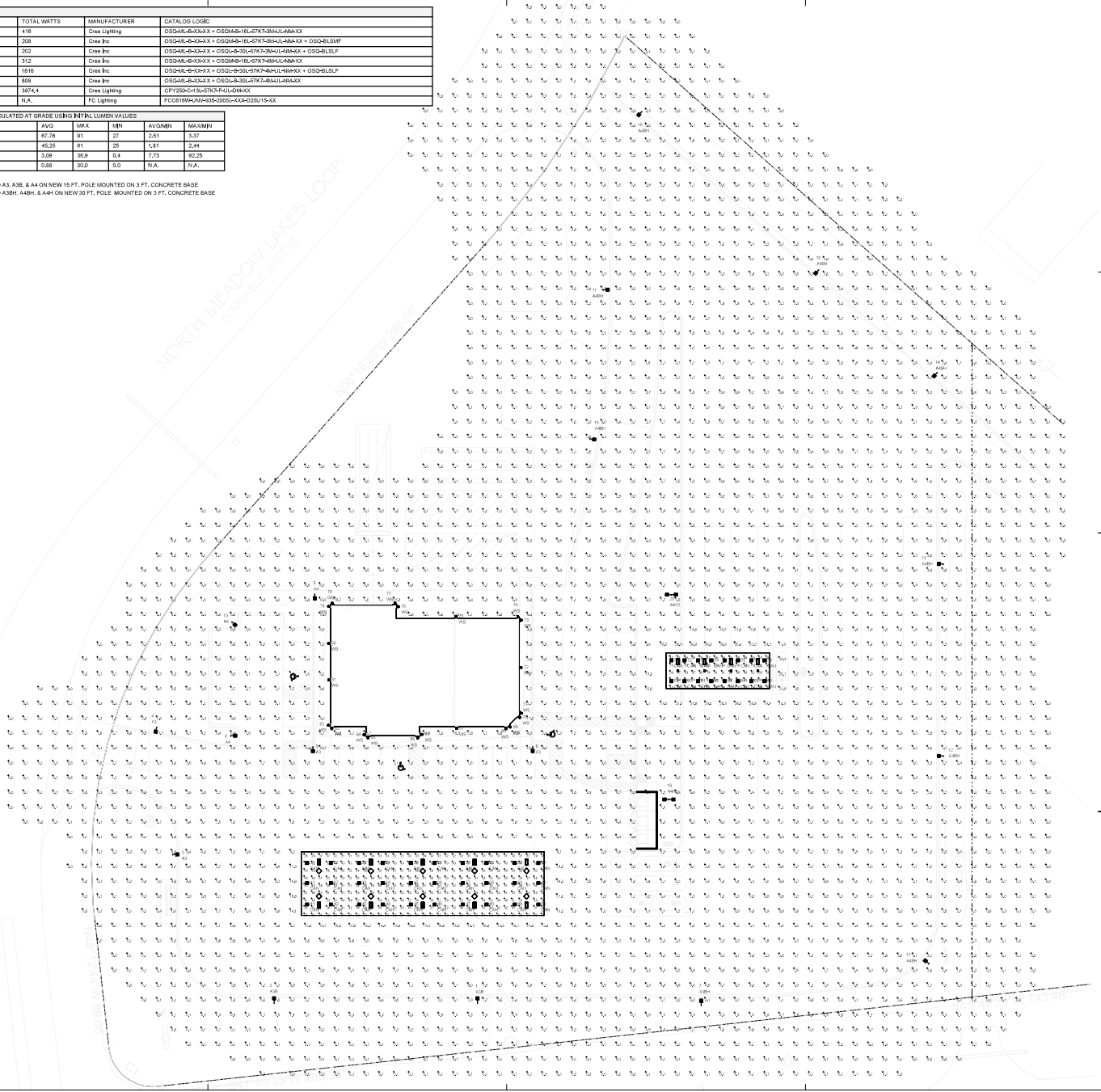
SHEET NUMBER
E1

SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUS RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
4	A3	Single	16100	1.040	B345-03	104	416	One Lighting	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX	
2	A3B	Single	2388	1.040	B345-02	104	208	One Inc	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX + OSQMLB-1E47K7-NMUL-LM-KX	
1	A3BH	Single	2388	1.040	B345-03	202	202	One Inc	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX + OSQMLB-1E47K7-NMUL-LM-KX	
3	A4	Single	16088	1.040	B345-03	104	312	One Inc	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX	
8	A4BH	Single	22288	1.040	B345-03	202	1616	One Inc	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX + OSQMLB-1E47K7-NMUL-LM-KX	
2	A4H2	Two-Beam	20887	1.040	B345-04	202	808	One Inc	OSQMLB-B00XX + OSQMLB-1E47K7-NMUL-LM-KX + OSQMLB-1E47K7-NMUL-LM-KX	
46	GAN	Single	14015	1.000	B345-01	85.4	3974.4	One Lighting	CP1250-01-34x35.5-FLU-0-0-0-0-0-0	
21	WS	GROUP	N.A.	1.000	N.A.	N.A.	N.A.	FC Lighting	FC0519H-AH-03-2000-XX-02815-XX	

LUM. NO.	LABEL	MTG. HT.	LUM. NO.	LABEL	MTG. HT.
1	A3B	18	45	GAN	15.5
2	A3B	18	46	GAN	15.5
3	A3	18	47	GAN	15.5
4	A3	18	48	GAN	15.5
5	A3	18	49	GAN	15.5
6	A3	18	50	GAN	15.5
7	A3BH	33	51	GAN	17
8	A4	18	52	GAN	17
9	A4	18	53	GAN	17
10	A4	18	54	GAN	17
11	A4BH	33	55	GAN	17
12	A4BH	33	56	GAN	17
13	A4BH	33	57	GAN	17
14	A4BH	33	58	GAN	17
15	A4BH	33	59	GAN	17
16	A4BH	33	60	GAN	17
17	A4BH	33	61	GAN	17
18	A4BH	33	62	GAN	17
19	A4H2	33	63	GAN	17
20	A4H2	33	64	GAN	17
21	GAN	15.5	65	GAN	17
22	GAN	15.5	66	GAN	17
23	GAN	15.5	67	WS	15
24	GAN	15.5	68	WS	15
25	GAN	15.5	69	WS	15
26	GAN	15.5	70	WS	15
27	GAN	15.5	71	WS	15
28	GAN	15.5	72	WS	15
29	GAN	15.5	73	WS	15
30	GAN	15.5	74	WS	15
31	GAN	15.5	75	WS	15
32	GAN	15.5	76	WS	15
33	GAN	15.5	77	WS	15
34	GAN	15.5	78	WS	15
35	GAN	15.5	79	WS	15
36	GAN	15.5	80	WS	15
37	GAN	15.5	81	WS	15
38	GAN	15.5	82	WS	15
39	GAN	15.5	83	WS	15
40	GAN	15.5	84	WS	15
41	GAN	15.5	85	WS	15
42	GAN	15.5	86	WS	15
43	GAN	15.5	87	WS	15
44	GAN	15.5	87	WS	15

LABEL	AVG	MAX	MIN	AVGMIN	MAXMIN
DIESEL CANOPY	67.78	91	27	2.61	3.37
GAS CANOPY	45.29	61	35	1.81	2.46
PAVED AREA	3.09	36.8	0.4	7.73	90.25
UNDEFINED	0.88	30.0	0.0	N/A	N/A

NOTES:
 - ALL AREA LIGHTS LABELED A3, A3B, & A4 ON NEW 15 FT. POLE MOUNTED ON 3 FT. CONCRETE BASE
 - ALL AREA LIGHTS LABELED A3BH, A4BH, & A4H ON NEW 30 FT. POLE MOUNTED ON 3 FT. CONCRETE BASE



RSA
 Mechanical and Electrical Consulting Engineers
 810 West Frenzel Lane, Suite 200
 Anchorage, AK 99507
 (907) 276-8221
 Corporate No. AEC0342

CONSENT NOTICE
 This drawing is the property of the above referenced Professional and is to be used only for the project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/7/23 PERMIT SET

PROFESSIONAL SEAL

 STATE OF ALASKA
 CITY OF ANCHORAGE
 STATE OF ALASKA PROFESSIONAL ENGINEERS
 LICENSE NO. 15708

PROFESSIONAL IN CHARGE
 PROJECT MANAGER
 BPP
 QUALITY CONTROL
 PCC
 DRAWN BY
 BC

PROJECT NAME
CIRCLE K STORES INC.
STORE #650
WASILLA
ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CC

CIRCLE K STORES INC.

RSA PROJECT NUMBER
M2221
 SHEET TITLE
 ELECTRICAL SITE LIGHTING
 & PHOTOMETRICS

SHEET NUMBER
E6

5200 NATIONAL PROTOTYPE

CPY Series - Version C

CPY250® LED Canopy/Soffit Luminaire

Rev. Date: V502/09/2023

Product Description

The CPY250® LED Canopy/Soffit Luminaire has an extremely thin profile constructed of rugged cast aluminum. It can be surface mounted easily from below the canopy deck and can be pendant mounted. Direct imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" (23mm) drop glass lens.

Applications: Petroleum canopies, CNG fueling stations, soffits

Performance Summary

Assembled in the USA by Cree Lighting from US and imported parts
Initial Delivered Lumens: Up to 21,000
Efficacy: Up to 165 LPW
CRI: Minimum 70 CRI (40K, 50K, 57K); 80 CRI (30K); 90 CRI (40K, 50K)
CCT: 3000K, 4000K, 5000K, 5700K
Limited Warranty*: 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for PML sensor/up to 5 years for Synapse® accessories/1 year for field-installed accessories
IP66 Rated (select models only)
Class I, Division 2 Hazardous Location for select models

* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed	
Direct Mount Luminaires	
Canopy Upgrade Kits (18 ga. steel, except where noted)	
CPY-AP304* - for use with Cree Lighting CAN-304 luminaires, 16 ga. 5052 aluminum	
XA-BXCCMW - for use with Jet-Philips, 21.60" (549mm) square, white	
XA-BXCCNW - for use with ElSCO Franciscan, 22.06" (560mm) square, white	
XA-BXCCPW - for use with LSI Dakota or Masters, 22.50" (572mm) square, white	
XA-BXCCQW - for use with Whiteway Riviera or Rig-A-Lite, 20.60" (523mm) square, white	
XA-BXCCRW - for use with ElSCO Merrit, 18.06" (459mm) square, white	
XA-BXCCSW - for use with LSI Richmond or Whiteway Civic, 23.00" (584mm) L x 13.00" (330mm) W, white	
Direct Mount Junction Box/Stem Kit	
XA-BXCCJBOX - 6.0" (152mm) H x 3/4" (19mm) NPT Stem	
- Watertight	
- Rated for feed through 8 (4 in, 4 out) #12 AWC conductors	
Direct Mount Beauty Plates	
XA-BXCCBPW - 26.17" (665mm) Beauty Plate Only (18 ga. steel), white	
XA-BXCCBPB12W - 26.17" (665mm) Beauty Plate (18 ga. steel) w/12" (305mm) Backer Plate (16 ga. steel), white	
- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15" (183mm x 375mm)	
XA-BXCCBPB16W - 26.17" (665mm) Beauty Plate (18 ga. steel) w/16" (406mm) Backer Plate (16 ga. steel), white	
- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 12" x 15" (305mm x 375mm)	
Pendant Mount Luminaires	
Pendant Mount Kits	
XA-PS12KIT* - 5" (127mm) pendant	
XA-PS18KIT* - 11" (279mm) pendant	
XA-PS22KIT* - 15" (381mm) pendant	
- Includes two conduit fittings and 3/4-14 NPT pipe threaded on two ends	
Hand-Held Remote	
XA-SENSREM	
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	
Synapse® SimplySnap 10V Interface	
DIM10-220F	
- 120V-277V	
- Requires other Synapse components to complete system	
- Refer to DIM10-220F spec sheet for details	

* Must specify color: BK [Black], BZ [Bronze], SV [Silver] or WH [White]

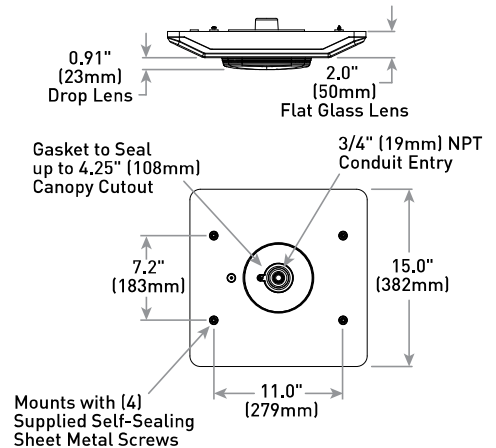
DM Mount / DM Mount with HZ Option



Flat Lens



Drop Lens



Weight
12.5 lbs. (5.7kg)

Refer to Page 4 for additional mounts.

Ordering Information

Example: CPY250-C-13L-57K7-D-UL-DM-SV

Product	Version	Lumen Package*	CCT/CRI	Optic	Voltage	Mounting	Color Options	Controls	Options
CPY250	C	2L 2,000 Lumens 4L 4,000 Lumens 8L 8,000 Lumens 13L 13,000 Lumens 21L 21,000 Lumens	30K8 3000K, 80 CRI 40K7 4000K, 70 CRI 40K9 4000K, 90 CRI 50K7 5000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	D 0.91" (23mm) Drop Lens F Flat Lens	UL Universal 120-277V UH Universal 347-480V - Available only in 4L-21L lumen packages	DM Direct FM Flush Mount H6 Car Wash HC Hook & Cord PD Pendant	BK Black BZ Bronze SV Silver WH White	BLANK Non-Dimming 10V 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details PML Programmable Multi-Level - Available with UL voltage only - Refer to PML spec sheet for details	10KV 10kV/5kA Surge Suppression - Replaces standard 6kV/3kA surge suppression - Not for use with PML as PML option includes 10kV/5kA surge as standard HZ Class I, Div. 2 Hazardous Location Certification - Available with DM and PD mounts only - Not available with PML control or K option K NSF 2 Certification - Luminaires include NSF certification mark - Suitable for DM mount only - Not available with PML control or HZ option

* Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values.



US: creelighting.com T (800) 236-6800
Canada: creelighting-canada.com T (800) 473-1234



CPY250® LED Canopy/Soffit Luminaire - Version C

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Easy mounting and servicing from below the deck
- Luminaire housing is constructed of rugged cast aluminum with integral heat sink specifically designed for LED
- Flat lens is 0.125" tempered Solite® glass
- Drop lens is 0.157" molded borosilicate glass
- Direct mount is suitable for use in single or double skin canopies with a minimum 4.0" (102mm) wide panels and a minimum 22 gauge, 0.030" (0.7mm) canopy thickness
- Direct mount luminaire mounts directly to the canopy deck with the drilling of a single 2" to 4" (51mm to 102mm) round hole, is secured in place with self-sealing screws that provide a weathertight seal and includes 3/4" (19mm) conduit entry for direct wire feed
- Hook and cord mount includes a 3' (0.91m) cord out of the luminaire and is intended to hang from the single hook
- Standard pendant mount includes a mounting bracket and a J-Box for customer wiring and is intended to be mounted by 3/4 IP pendant (by others)
- Hazardous location pendant mount has a threaded hub which accepts 3/4" NPT conduit (by others) and secures with a 1/4"-20 set screw
- H6 mount includes cable gland with 3' (0.91m) cord out of the luminaire and is intended to hang from the single hook
- Flush mount includes perimeter gasket, watertight cable gland and 6' (1.8m) flexible watertight conduit out of luminaire
- Flush mount attaches to ceiling with (4) self-drilling screws
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available

• **Weight:** 12.5 lbs. (5.7kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 6kV/3kA surge suppression protection standard; 10kV/5kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

CONTROLS

- 10V option provides continuous dimming to 10% with 0-10V DC control protocol
- **Maximum 10V Source Current:** 1mA
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Reference [LED Dimming spec sheet](#) for additional dimming information

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations when ordered with DM, DM mount w/HZ option, PD mount w/HZ option, FM and H6 mounts. Covered ceiling required only when not used with cULus Listed, wet location junction box or XA-BXCCJBX accessory
- Suitable for damp locations when ordered with HC and PD mounts. Designed for indoor use only
- Enclosure meets IP66 requirements per IEC 60529 when ordered with DM, FM and H6 mounts
- ANSI C136.2 6kV/3kA (standard) and 10kV/5kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2. PML option includes 10kV surge protection
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Class I, Division 2 Hazardous Location rated when ordered with the DM or PD mount and the HZ option. Not available with K or PML options. Rated for Groups A, B, C & D. Bears a T3C (160°C) temperature classification within a 25°C ambient
- NSF Certified when ordered with DM mount and K option. Not available with HZ or PML options. Refer to <http://info.nsf.org/Certified/Food/> for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and Flat Lens (F). Please refer to <https://www.darksky.org/our-work/lighting-for-industry/fsa/fsa-products/> for most current information
- DLC Premium qualified for Fuel Pump Canopies. DLC Standard qualified for High-Bay/Low Bay luminaires when ordered with 8L and 30K8, 40K9 and 50K9 CCTs, 13L or 21L lumen packages with all CCTs. Please refer to <https://qpl.designlights.org/solid-state-lighting> for most current information

• **CA RESIDENTS WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

Electrical Data*							
Lumen Package	System Watts 120-480V**	Total Current (A)					
		120V	208V	240V	277V	347V	480V
2L	14	0.11	0.07	0.06	0.05	N/A	N/A
4L	29	0.24	0.14	0.12	0.10	0.08	0.06
8L	53	0.45	0.26	0.22	0.19	0.15	0.11
13L	86	0.73	0.42	0.36	0.32	0.25	0.19
21L	132	1.13	0.64	0.56	0.49	0.38	0.28

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%. ** 2L not available in 347-480V.

CPY Series (Version C) Ambient Adjusted Lumen Maintenance ¹						
Ambient	Luminaire Mounting Surface	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	2L-13L Plywood/ 2L-21L Metal	1.02	0.99	0.96	0.94	0.92
	21L Plywood	1.02	0.99	0.96	0.93	0.90
10°C (50°F)	2L-13L Plywood/ 2L-21L Metal	1.02	0.98	0.96	0.93	0.91
	21L Plywood	1.02	0.98	0.95	0.92	0.90
15°C (59°F)	2L-13L Plywood/ 2L-21L Metal	1.01	0.98	0.95	0.93	0.91
	21L Plywood	1.01	0.98	0.95	0.92	0.89
20°C (68°F)	2L-13L Plywood/ 2L-21L Metal	1.01	0.97	0.95	0.92	0.90
	21L Plywood	1.01	0.97	0.94	0.91	0.89
25°C (77°F)	2L-13L Plywood/ 2L-21L Metal	1.00	0.97	0.94	0.92	0.90
	21L Plywood	1.00	0.96	0.94	0.91	0.88
30°C (86°F)	2L-13L Plywood/ 2L-21L Metal	0.99	0.96	0.94	0.91	0.89
	21L Plywood	0.99	0.96	0.93	0.90	0.87
35°C (95°F)	2L-13L Plywood/ 2L-21L Metal	0.99	0.95	0.93	0.91	0.88
	21L Plywood	0.99	0.93	0.89	0.84	0.80
40°C (104°F)	2L-13L Plywood/ 2L-21L Metal	0.98	0.95	0.92	0.90	0.88
45°C (113°F)	2L-4L Plywood/ 2L-13L Metal	0.98	0.93	0.89	0.86	0.82
50°C (122°F)	2L-4L Metal	0.97	0.90	0.84	0.78	0.73

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Operating Temperature Range				
Lumen Package	Direct Mount to Plywood	Direct Mount to Sheet Metal/Suspended	Class 1, Division 2 Hazardous Location	
			Direct Mount to Plywood	Direct Mount to Sheet Metal/Suspended
2L	-40°C to +45°C	-40°C to +50°C	-40°C to +25°C	
4L	-40°C to +45°C	-40°C to +50°C		
8L	-40°C to +40°C	-40°C to +45°C		
13L	-40°C to +40°C	-40°C to +45°C		
21L	-40°C to +35°C	-40°C to +40°C		

NOTE: Standard luminaires are UL rated at 40°C, and hazardous location luminaires are UL rated at 25°C, but will operate in the ambients listed above

WARNING: Exceeding maximum operating temperature may result in thermal foldback

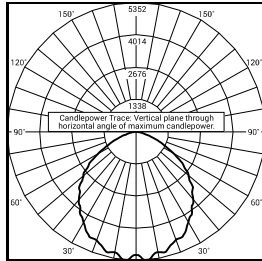
CPY250® LED Canopy/Soffit Luminaire - Version C

Photometry

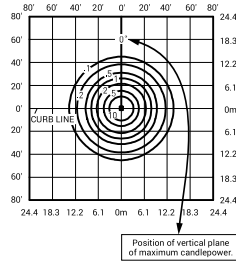
All published luminaire photometric testing performed to IES LM-79 standards.

To obtain an IES file specific to your project consult: <https://www.creelighting.com/products/outdoor/canopy-and-soffit/cpy250-series>

DROP LENS



RESTL Test Report #: PL16573-001A
 CPY250-C-13L-57K7-D-UL-**-**-***
 Initial Delivered Lumens: 13,260



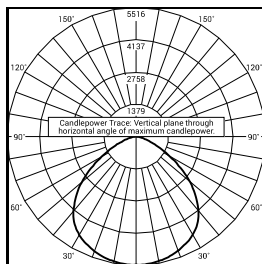
CPY250-C-13L-57K7-D-UL-**-**-***
 Mounting Height: 15' (4.6m) A.F.G.
 Initial Delivered Lumens: 13,750
 Initial FC at grade

Drop Lens Distribution						
Lumen Package	3000K		4000K/5000K		4000K/5000K/5700K	
	80 CRI		90 CRI		70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,100	B1 U1 G1	1,730	B1 U1 G1	2,310	B1 U1 G1
4L	4,160	B2 U1 G1	3,440	B2 U1 G1	4,590	B2 U2 G1
8L	7,675	B3 U2 G1	6,325	B2 U2 G1	8,475	B3 U2 G1
13L	12,450	B3 U2 G1	10,225	B3 U2 G1	13,750	B3 U2 G1
21L	19,200	B4 U2 G2	15,700	B3 U2 G2	21,300	B4 U2 G2

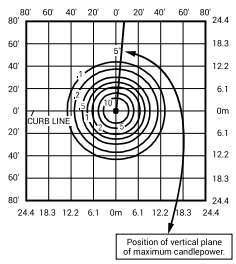
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

FLAT LENS



RESTL Test Report #: PL16548-004A
 CPY250-C-13L-57K7-F-UL-**-**-***
 Initial Delivered Lumens: 14,015



CPY250-C-13L-57K7-F-UL-**-**-***
 Mounting Height: 15' (4.6m) A.F.G.
 Initial Delivered Lumens: 14,015
 Initial FC at grade

Flat Lens Distribution						
Lumen Package	3000K		4000K/5000K		4000K/5000K/5700K	
	80 CRI		90 CRI		70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,100	B1 U0 G0	1,730	B1 U0 G0	2,310	B1 U0 G0
4L	4,160	B2 U0 G1	3,440	B2 U0 G1	4,590	B2 U0 G1
8L	7,675	B3 U0 G1	6,325	B2 U0 G1	8,475	B3 U0 G1
13L	12,450	B3 U0 G1	10,225	B3 U0 G1	13,750	B3 U0 G1
21L	19,200	B4 U0 G1	15,700	B3 U0 G1	21,300	B4 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



Catalog #: _____ Project: _____

Type:
128 of 446

Prepared By: _____

Date: _____

Architectural Flood (XFLM)

Outdoor Flood Light



OVERVIEW

Lumen Package (lm)	3,000 - 7,000
Wattage Range (W)	36 - 64
Efficacy Range (LPW)	90 - 125
Weight lbs (kg)	18 (8.2)

QUICK LINKS

FEATURES & SPECIFICATIONS

Construction

- Architecturally styled, one-piece, die-cast aluminum, 360 alloy, low copper housing with .156" nominal wall thickness
- A one-piece vulcanized silicone gasket seals the door frame to the housing and is concealed when fixture is closed.
- One-piece, die-cast aluminum, 360 alloy, low copper, .156" nominal wall thickness door frame secures to housing via four, stainless steel recessed captive torx T-30 screws
- 3/16" thick clear tempered glass lens is sealed to door frame by a one-piece silicone gasket and ten black zinc plated clips.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.
- Luminaire is proudly manufactured and tested in the U.S.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.

Optical System

- Choice of 6 high performance distributions; HF, VF, MF, NF, WF, or SP

- Flood Optic lens is made of optical grade acrylic for increased efficiency and optical precision.
- Available in 5000K (70 CRI), 4000K (80 CRI), and 3500K (80 CRI) color temperatures per ANSI C78.377.

Electrical

- Optional 0-10V dimming (10% - 100%).
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards.
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C, 10KV.

Installation

- Standard mount is a heavy duty die cast knuckle assembly with 3/4-14 NPS male threaded arm that provides 185° range of motion.
- Knuckle locking plate teeth and arm allow for tilt / aiming in 7.5° increments. Aiming

angle markings in 15° increments allow reliable error free aiming.

- Standard knuckle mount tested to withstand up to 3G vibration load rating per ANSI C136.31.
- Optional YM- Yoke Mount is also available.
- Mounting accessories include Stanchion Mount, Post-Top Adapter, Junction Box, & Wall Mount for recessed or surface mount applications.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.



Architectural Flood (XFLM) Outdoor Flood Light

Have questions? Call us at (800) 436-7800

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: XFLM SP LED 28 HO NW UE BRZ PC120								
Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature/Rendering	Line Voltage	Finish	Options
XFLM - Architectural Flood	HF - Horizontal Flood MF - Medium Flood VF - Vertical Flood SP - Spot NF - Narrow Flood WF - Wide Flood	LED	28 49	HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K) WW - Warm White (3500K)	UNV - 120 - 277V HV - 347-480V ⁴	BRZ - Dark Bronze BLK - Black GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus SVG - Satin Verde Green	PC1120 - 120V Photocontrol PC1HV - 208V - 277V Photocontrol PC347 - 347V Photocontrol YM - Yoke Mount DIM - 0-10V Dimming

BRACKET ORDERING INFORMATION

Bracket Designation	Bracket Type	Bracket Configuration	Length	Finish	Options	Est. Weight (lbs.)
BKA - Bracket Aluminum	XFLM - Architectural Flood	SMC - Stanchion Mount	23"	BRZ - Dark Bronze	None	7
		J4R WM - Wall Mount	4"	BLK - Black		2
		J4R WM SCE - Wall Mount Side Conduit Entry		GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus SVG - Satin Verde Green		



Need more information?
Click here for our glossary

Have additional questions?
Call us at (800) 436-7800



ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Part Number	Description
122534CLR	JB - Junction Box
122540CLR	GS - Glare Shield
122542CLR	PT - Post Top Adaptor
122543	TA - Thread Adaptor 1/2" (No Finish)

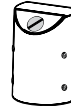
ARCHITECTURAL JUNCTION BOX (JB) - Cast aluminum body and extruded matching cover. One-piece EPDM cover gasket. Internal ground screw provided. 3/4" NPSM fixture mount with sealing locknut. Two 1/2" NPSM for conduit entry. For above grade installation only. Available in standard finishes.



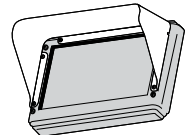
1/2" THREADED ADAPTOR (TA) - Machined aluminum pipe reducer adapts 3/4" pipe thread (T-stem) to 1/2" pipe thread provided by others.



POST TOP ADAPTOR (PT) - One-piece cast aluminum - mounts on pole with 2" pipe tenon (2-3/8" OD x 3-1/2" minimum length) or 2-1/2" pipe tenon (2-7/8" OD x 3-1/2" minimum length). Fixture threads into adaptor and attaches to pole with allen set screws. Post Top Adaptor allows mounting of one or two fixtures and 360° horizontal adjustment. Available in standard finishes.

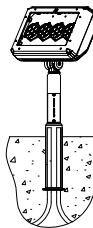


GLARE SHIELD (GS) - Formed 16 ga. steel. Mounts to die-cast door frame holes and may be used with polycarbonate shield accessory. Available in standard finishes.

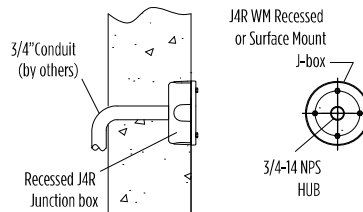


MOUNTING BRACKETS

STANCHION MOUNT (SMC) - 3" OD x .250" x 22.65" cast aluminum with 3/4" NPSM fixture mount, and a standard 2 3/8" tenon. Wiring and internal ground lug accessible through hand hole. Available in standard finishes.



WALL MOUNT J-BOX (J4 WM or J4R WM SCE) - Accessory includes J4R J-Box, 507504 3/4-14 NPS canopy, canopy gasket, & 4 cap screws. J4R WM SCE version for surface mount conduit applications includes 2ea 1/2" conduit entries & includes conduit plugs.



Architectural Flood (XFLM) Outdoor Flood Light

 Have questions? Call us at (800) 436-7800

PERFORMANCE

[Back to Quick Links](#)

Delivered Lumens												
# of LEDs	Distribution	NEMA Type	WW - 3500K CCT (80 CRI)			NW - 4000K CCT (80 CRI)			CW - 5000K CCT (70 CRI)			Wattage
			Delivered Lumens	Efficacy	Max CD	Delivered Lumens	Efficacy	Max CD	Delivered Lumens	Efficacy	Max CD	
28	HF	5H X 3V	2,487	69	8,402	3,114	87	10,178	3,717	103	11,456	36
	MF	4H X 4V	2,470	69	6,602	3,002	83	8,413	3,732	104	9,650	
	WF	5H X 5V	2,370	66	4,728	3,081	86	5,680	3,407	95	5,572	
	VF	3H X 5V	2,439	68	8,104	3,155	88	9,913	3,678	102	11,181	
	NF	3H X 3V	2,294	64	10,842	2,979	83	13,882	4,149	115	15,904	
	SP	3H X 3V	3,191	89	24,825	3,473	96	29,965	4,501	125	34,100	
49	HF	5H X 3V	3,921	61	13,770	5,580	87	17,612	6,584	103	19,801	64
	MF	4H X 4V	3,920	61	10,724	5,175	81	13,260	6,573	103	16,753	
	WF	5H X 5V	3,894	61	7,415	5,283	83	9,403	5,744	90	9,912	
	VF	3H X 5V	4,260	67	13,997	5,197	81	17,306	6,548	102	18,627	
		4H X 4V	4,145	65	19,038	5,671	89	23,703	6,298	98	24,681	
	SP	3H X 3V	4,719	74	44,216	5,883	92	51,690	6,986	109	51,976	

*LEDs are frequently updated therefore values are nominal.

Electrical Data						
Lumens	120V	208V	240V	277V	347V	480V
28	0.30	0.17	0.15	0.13	0.10	0.08
49	0.53	0.31	0.27	0.23	0.18	0.13

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Rev. Date: V6 07/18/2022

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 6L lumen package is a suitable upgrade for HID applications up to 250 Watt, and the 11L lumen package is a suitable upgrade for HID applications up to 400 Watt. The 22L lumen package is a suitable upgrade for HID applications up to 750 Watts, and the 30L lumen package is a suitable upgrade for HID applications up to 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: 4,000 - 30,000

Efficacy: Up to 173 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; 5 years for PML sensor; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Ordering Information

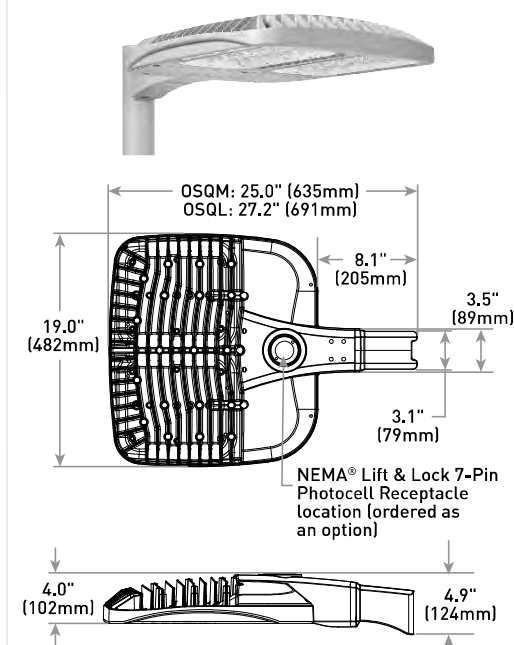
Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Mount:** OSQ-ML-B-AA-BK + **Luminaire:** OSQM-B-4L-30K7-2M-UL-NM-BK

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-ML-B-AA Adjustable Arm	Color Options: SV Silver BZ Bronze BK Black WH White
OSQ-ML-B-DA Direct Arm	
OSQ-ML-B-TSP Transportation Mount (stainless steel; do not specify color)	
OSQ-ML-B-TM Trunnion Mount	

* Reference EPA and pole configuration suitability data beginning on page 10

OSQ-ML-B-DA Mount



Luminaire	Weight
OSQM	28.9 lbs. (13.1kg)
OSQL	32.4 lbs. (14.7kg)

Note: Refer to page 11 for fixture mounting drill pattern. For additional mounts, refer to drawings beginning on page 19

Luminaire (Mount must be ordered separately)												
OSQ	B											
Family	Size	Series	Lumen Package ¹	CCT/CRI	Optic	Voltage	Mount	Color Options	Controls**	Options		
OSQ	M Medium L Large	B	Medium 4L 4,000 Lumens 6L 4000K, 6,000 Lumens 9L 5000K, 9,000 Lumens 11L 5700K, 11,000 Lumens 16L 16,000 Lumens	30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	Asymmetric 2M* Type II Medium 3M* Type III Medium 4M* Type IV Medium	UL Universal 120-277V UH Universal 347-480V - Not available with 4L or 6L lumen packages	NM No Mount - Must specify mount from table above - Mount ships separately	BK Black BZ Bronze SV Silver WH White	PML Programmable Multi-Level, up to 40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-18 for power and lumen values - Not available with PML or PML2 options X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select add X8, X7, X6, X5, X4, X3, X2, or X1 - Not available with 22L or 30L lumen packages - X2 or X1 not available with 4L lumen package - Not available with PML or PML2 options - Lumen output is permanently locked to the setting selected - Refer to pages 12-18 for power and lumen values	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection F Fuse - Replaces standard 10kV/5kA surge protection - Compatible with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options R NEMA® Lift & Lock 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others RL Rotate Left - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 19 for optic directionality - Not for use with symmetric optics RR Rotate Right - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 19 for optic directionality - Not for use with symmetric optics		
											Large 22L 22,000 Lumens 30L 30,000 Lumens	Symmetric 5M Type V Medium 5N Type V Narrow 50 Type V Square N3 Narrow Flood 33 NEMA® 3x3 44 NEMA® 4x4 55 NEMA® 5x5 66 NEMA® 6x6 75 NEMA® 7x5

¹ Lumen Package codes identify approximate light output only. Actual lumen output levels vary by CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values

* Available with Backlight Shield when ordered with field-installed accessory (see table on page 2)

** Luminaire comes standard with 0-10V dimming



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING®

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weatherlight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm. Mounting adaptor is rugged die cast aluminum and mounts to 3" [76mm] or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" [51mm] centers. Refer to page 11 for fixture mounting drill pattern.
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" [51mm] x 2.375" [60mm] O.D. tenon.
- Adjustable arm mount can be adjusted 180° in 2.5° increments.
- Transportation mount is constructed of 316 stainless steel and mounts to surface with [4] 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with [1] 3/4" bolt or [2] 1/2" or 3/8" bolts
- Luminaires ordered with NM mount include 18" [340mm] 18/5 or 16/5 cord exiting the luminaire; when combined with R option, 18" [340mm] 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

Weight		
Mount	Housing	
	Medium	Large
OSQ-ML-B-AA	28.4 lbs. [12.9kg]	32.0 lbs. [14.5kg]
OSQ-ML-B-DA	28.9 lbs. [13.1kg]	32.4 lbs. [14.7kg]
OSQ-ML-B-TSP	42.0 lbs. [19.1kg]	44.0 lbs. [20.0kg]
OSQ-ML-B-TM	32.6 lbs. [14.8kg]	36.1 lbs. [16.4kg]

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to [Dimming spec sheet](#) for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Enclosure rated IP66 per IEC 60529 when ordered without R option. Luminaires with R option meet IP66 requirements per IEC 60529 when used with IP66 rated NEMA control or shorting cap
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/isa/isa-products/> for most current information
- DLC Premium qualified versions available. Please refer to <https://www.designlights.org/search/> for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Synapse Wireless Control Accessories	
Twist-Lock Lighting Controller TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or PML2 options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-B2 spec sheet for details	Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details
Twist-Lock Lighting Controller TL7-HVG - Suitable for 120-480V (UL and UH) voltage - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or PML2 options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details	SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details
SimplySNAP Central Base Station CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSSW-450-002 spec sheet for details	Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details
	Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT360 - Kit includes antenna, 30' cable and bracket KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*									
Lumen Package	Optic	System Watts 120-480V	Utility Label Wattage	Total Current (A)					
				120V	208V	240V	277V	347V	480V
4L**	All	29	30	0.25	0.14	0.12	0.11	N/A	N/A
	Asymmetric	48	50	0.41	0.23	0.20	0.17	N/A	N/A
6L**	Symmetric	39	40	0.33	0.19	0.17	0.14	N/A	N/A
	All	60	60	0.51	0.29	0.25	0.22	0.18	0.13
11L	All	72	70	0.62	0.36	0.31	0.27	0.21	0.16
16L	All	104	100	0.89	0.51	0.43	0.39	0.31	0.22
22L	All	132	130	1.12	0.63	0.55	0.47	0.39	0.28
30L	All	202	200	1.72	0.96	0.84	0.72	0.60	0.43

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%
 ** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance¹

Ambient	Optic	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K hr Reported ² / Estimated ³ LMF
5°C [41°F]	Asymmetric	1.04	1.03	1.01	0.99 ²	0.97 ²
	Symmetric	1.05	1.05	1.05	1.05 ³	1.05 ³
10°C [50°F]	Asymmetric	1.03	1.02	1.00	0.98 ²	0.96 ²
	Symmetric	1.04	1.03	1.03	1.03 ³	1.03 ³
15°C [59°F]	Asymmetric	1.02	1.01	0.99	0.97 ²	0.95 ²
	Symmetric	1.02	1.02	1.02	1.02 ³	1.02 ³
20°C [68°F]	Asymmetric	1.01	1.00	0.98	0.96 ²	0.94 ²
	Symmetric	1.01	1.01	1.01	1.01 ³	1.01 ³
25°C [77°F]	Asymmetric	1.00	0.99	0.97	0.95 ²	0.93 ²
	Symmetric	1.00	1.00	1.00	1.00 ³	1.00 ³

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors [LATF] have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed	Hand-Held Remote	Shorting Cap
Backlight Shield (Front Facing Optics) OSQ-BLSMF (Medium) OSQ-BLSLF (Large)	XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	XA-XLSHRT
Backlight Shield (Rotated Optics) OSQ-BLSMR (Medium) OSQ-BLSLR (Large)		
Bird Spikes OSQ-MED-BRDSPK OSQ-LG-BRDSPK		

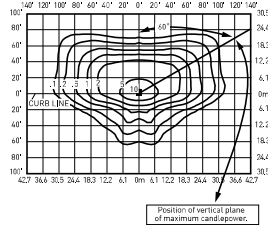
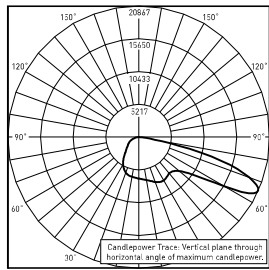
OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

<https://creelighting.com/products/outdoor/area/osq-series>

3M

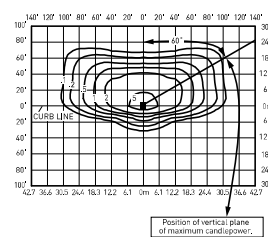
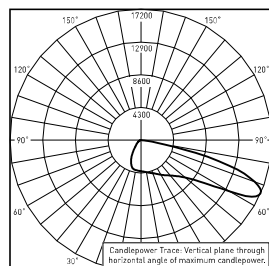


RESTL Test Report #: PL16051-001A
OSQL-B-30L-40K7-3M-UL
Initial Delivered Lumens: 30,908

OSQL-B-30L-40K7-3M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 31,000
Initial FC at grade

Type III Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B2 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G2
16L	15,500	B3 U0 G3	16,100	B3 U0 G3	13,800	B2 U0 G2	16,100	B3 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G3	18,600	B3 U0 G3	22,100	B3 U0 G3
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G3	31,000	B3 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



RESTL Test Report #: PL16064-001A
OSQL-B-30L-40K7-3M-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,498

OSQL-B-30L-40K7-3M-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 24,500
Initial FC at grade

Type III Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	3,390	B1 U0 G1	3,510	B1 U0 G1	3,010	B1 U0 G1	3,510	B1 U0 G1
6L	5,250	B1 U0 G2	5,450	B1 U0 G2	4,680	B1 U0 G1	5,450	B1 U0 G2
9L	7,000	B1 U0 G2	7,275	B1 U0 G2	6,225	B1 U0 G2	7,275	B1 U0 G2
11L	8,525	B1 U0 G2	8,825	B1 U0 G2	7,575	B1 U0 G2	8,825	B1 U0 G2
16L	12,250	B2 U0 G2	12,700	B2 U0 G2	10,900	B2 U0 G2	12,700	B2 U0 G2
22L	16,300	B2 U0 G3	17,500	B2 U0 G3	14,650	B2 U0 G3	17,500	B2 U0 G3
30L	21,900	B3 U0 G4	24,500	B3 U0 G4	17,600	B2 U0 G3	24,500	B3 U0 G4

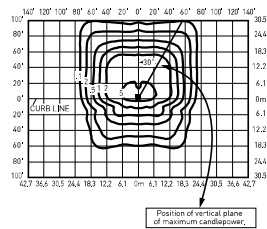
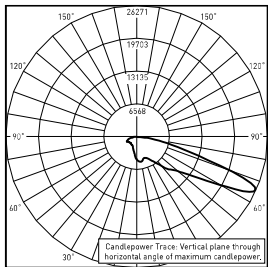
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/area/osq-series>

4M

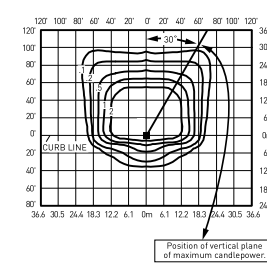
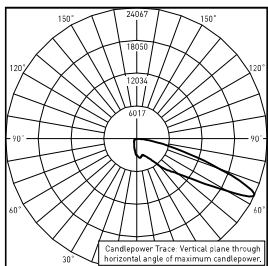


RESTL Test Report #: PL16065-001B
OSQL-B-30L-40K7-4M-UL
Initial Delivered Lumens: 30,752

OSQL-B-30L-40K7-4M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 31,000
Initial FC at grade

Type IV Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B1 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G3
16L	15,500	B2 U0 G3	16,100	B2 U0 G3	13,800	B2 U0 G2	16,100	B2 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G4	18,600	B3 U0 G3	22,100	B3 U0 G4
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G4	31,000	B3 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



RESTL Test Report #: PL16066-001B
OSQL-B-30L-40K7-4M-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,654

OSQL-B-30L-40K7-4M-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 23,800
Initial FC at grade

Type IV Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	3,300	B0 U0 G1	3,410	B0 U0 G1	2,930	B0 U0 G1	3,410	B0 U0 G1
6L	5,100	B1 U0 G2	5,300	B1 U0 G2	4,550	B1 U0 G1	5,300	B1 U0 G2
9L	6,825	B1 U0 G2	7,075	B1 U0 G2	6,075	B1 U0 G2	7,075	B1 U0 G2
11L	8,300	B1 U0 G2	8,575	B1 U0 G2	7,375	B1 U0 G2	8,575	B1 U0 G2
16L	11,925	B1 U0 G2	12,350	B1 U0 G2	10,600	B1 U0 G2	12,350	B1 U0 G2
22L	15,900	B2 U0 G3	17,000	B2 U0 G3	14,250	B1 U0 G3	17,000	B2 U0 G3
30L	21,400	B2 U0 G4	23,800	B2 U0 G4	17,100	B2 U0 G3	23,800	B2 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Rev. Date: V6 07/18/2022

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 6L lumen package is a suitable upgrade for HID applications up to 250 Watt, and the 11L lumen package is a suitable upgrade for HID applications up to 400 Watt. The 22L lumen package is a suitable upgrade for HID applications up to 750 Watts, and the 30L lumen package is a suitable upgrade for HID applications up to 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: 4,000 - 30,000

Efficacy: Up to 173 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; 5 years for PML sensor; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Ordering Information

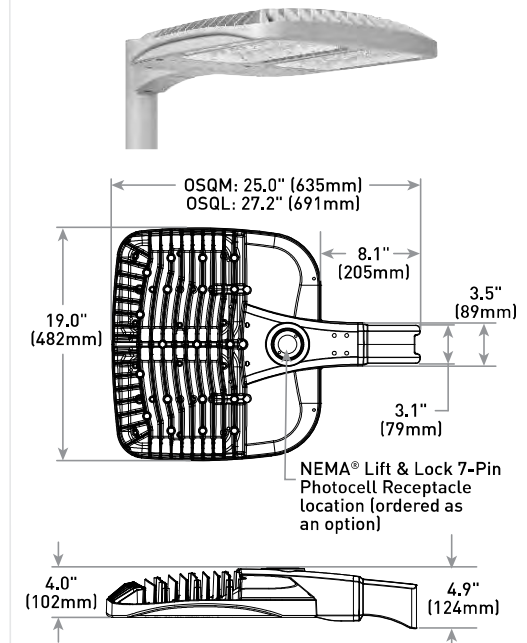
Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Mount:** OSQ-ML-B-AA-BK + **Luminaire:** OSQM-B-4L-30K7-2M-UL-NM-BK

Mount (Luminaire must be ordered separately)*	
OSQ-	
OSQ-ML-B-AA Adjustable Arm	Color Options: SV Silver BZ Bronze BK Black WH White
OSQ-ML-B-DA Direct Arm	
OSQ-ML-B-TSP Transportation Mount (stainless steel; do not specify color)	
OSQ-ML-B-TM Trunnion Mount	

* Reference EPA and pole configuration suitability data beginning on page 10

OSQ-ML-B-DA Mount



Luminaire	Weight
OSQM	28.9 lbs. (13.1kg)
OSQL	32.4 lbs. (14.7kg)

Note: Refer to page 11 for fixture mounting drill pattern. For additional mounts, refer to drawings beginning on page 19

Luminaire (Mount must be ordered separately)												
OSQ	B											
Family	Size	Series	Lumen Package ¹	CCT/CRI	Optic	Voltage	Mount	Color Options	Controls**	Options		
OSQ	M Medium L Large	B	Medium 4L 4,000 Lumens 6L 4000K, 6,000 Lumens 9L 5000K, 9,000 Lumens 11L 5700K, 11,000 Lumens 16L 16,000 Lumens	30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	Asymmetric 2M* Type II Medium 3M* Type III Medium 4M* Type IV Medium	UL Universal 120-277V UH Universal 347-480V - Not available with 4L or 6L lumen packages	NM No Mount - Must specify mount from table above - Mount ships separately	BK Black BZ Bronze SV Silver WH White	PML Programmable Multi-Level, up to 40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 12-18 for power and lumen values - Not available with PML or PML2 options X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select add X8, X7, X6, X5, X4, X3, X2, or X1 - Not available with 22L or 30L lumen packages - X2 or X1 not available with 4L lumen package - Not available with PML or PML2 options - Lumen output is permanently locked to the setting selected - Refer to pages 12-18 for power and lumen values	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection F Fuse - Compatible with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse R NEMA® Lift & Lock 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others RL Rotate Left - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 19 for optic directionality - Not for use with symmetric optics RR Rotate Right - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 19 for optic directionality - Not for use with symmetric optics		
											Large 22L 22,000 Lumens 30L 30,000 Lumens	Symmetric 5M Type V Medium 5N Type V Narrow 50 Type V Square N3 Narrow Flood 33 NEMA® 3x3 44 NEMA® 4x4 55 NEMA® 5x5 66 NEMA® 6x6 75 NEMA® 7x5

¹ Lumen Package codes identify approximate light output only. Actual lumen output levels vary by CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values

* Available with Backlight Shield when ordered with field-installed accessory (see table on page 2)

** Luminaire comes standard with 0-10V dimming



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING®

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weatherlight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm. Mounting adaptor is rugged die cast aluminum and mounts to 3" [76mm] or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" [51mm] centers. Refer to page 11 for fixture mounting drill pattern.
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" [51mm] x 2.375" [60mm] O.D. tenon.
- Adjustable arm mount can be adjusted 180° in 2.5° increments.
- Transportation mount is constructed of 316 stainless steel and mounts to surface with [4] 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with [1] 3/4" bolt or [2] 1/2" or 3/8" bolts
- Luminaires ordered with NM mount include 18" [340mm] 18/5 or 16/5 cord exiting the luminaire; when combined with R option, 18" [340mm] 18/7 or 16/7 cord is provided
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

Weight		
Mount	Housing	
	Medium	Large
OSQ-ML-B-AA	28.4 lbs. [12.9kg]	32.0 lbs. [14.5kg]
OSQ-ML-B-DA	28.9 lbs. [13.1kg]	32.4 lbs. [14.7kg]
OSQ-ML-B-TSP	42.0 lbs. [19.1kg]	44.0 lbs. [20.0kg]
OSQ-ML-B-TM	32.6 lbs. [14.8kg]	36.1 lbs. [16.4kg]

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to [Dimming spec sheet](#) for details
- **Maximum 10V Source Current:** 1.0mA
- **Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Enclosure rated IP66 per IEC 60529 when ordered without R option. Luminaires with R option meet IP66 requirements per IEC 60529 when used with IP66 rated NEMA control or shorting cap
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/isa/isa-products/> for most current information
- DLC Premium qualified versions available. Please refer to <https://www.designlights.org/search/> for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Synapse Wireless Control Accessories	
Twist-Lock Lighting Controller TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or PML2 options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-B2 spec sheet for details Twist-Lock Lighting Controller TL7-HVG - Suitable for 120-480V (UL and UH) voltage - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with PML or PML2 options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details SimplySNAP Central Base Station CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSSW-450-002 spec sheet for details	Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT360 - Kit includes antenna, 30' cable and bracket KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*									
Lumen Package	Optic	System Watts 120-480V	Utility Label Wattage	Total Current (A)					
				120V	208V	240V	277V	347V	480V
4L**	All	29	30	0.25	0.14	0.12	0.11	N/A	N/A
	Asymmetric	48	50	0.41	0.23	0.20	0.17	N/A	N/A
6L**	Symmetric	39	40	0.33	0.19	0.17	0.14	N/A	N/A
	All	60	60	0.51	0.29	0.25	0.22	0.18	0.13
9L	All	72	70	0.62	0.36	0.31	0.27	0.21	0.16
11L	All	104	100	0.89	0.51	0.43	0.39	0.31	0.22
16L	All	132	130	1.12	0.63	0.55	0.47	0.39	0.28
22L	All	202	200	1.72	0.96	0.84	0.72	0.60	0.43
30L	All								

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%
 ** Available with UL voltage only

OSQ Series Ambient Adjusted Lumen Maintenance¹

Ambient	Optic	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K hr Reported ² / Estimated ³ LMF
5°C [41°F]	Asymmetric	1.04	1.03	1.01	0.99 ²	0.97 ²
	Symmetric	1.05	1.05	1.05	1.05 ³	1.05 ³
10°C [50°F]	Asymmetric	1.03	1.02	1.00	0.98 ²	0.96 ²
	Symmetric	1.04	1.03	1.03	1.03 ³	1.03 ³
15°C [59°F]	Asymmetric	1.02	1.01	0.99	0.97 ²	0.95 ²
	Symmetric	1.02	1.02	1.02	1.02 ³	1.02 ³
20°C [68°F]	Asymmetric	1.01	1.00	0.98	0.96 ²	0.94 ²
	Symmetric	1.01	1.01	1.01	1.01 ³	1.01 ³
25°C [77°F]	Asymmetric	1.00	0.99	0.97	0.95 ²	0.93 ²
	Symmetric	1.00	1.00	1.00	1.00 ³	1.00 ³

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors [LATF] have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

Field-Installed	Hand-Held Remote	Shorting Cap
Backlight Shield (Front Facing Optics) OSQ-BLSMF (Medium) OSQ-BLSLF (Large) Backlight Shield (Rotated Optics) OSQ-BLSMR (Medium) OSQ-BLSLR (Large) Bird Spikes OSQ-MED-BRDSPK OSQ-LG-BRDSPK	XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	XA-XLSHRT

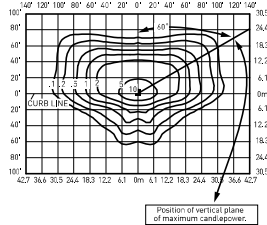
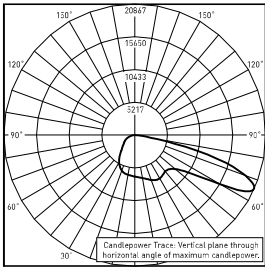


OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/area/osq-series>

3M

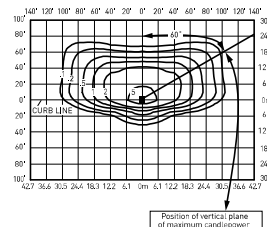
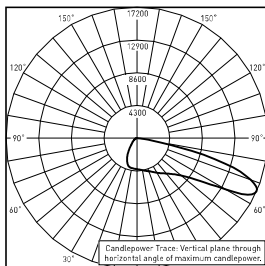


RESTL Test Report #: PL16051-001A
OSQL-B-30L-40K7-3M-UL
Initial Delivered Lumens: 30,908

OSQL-B-30L-40K7-3M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 31,000
Initial FC at grade

Type III Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B2 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G2
16L	15,500	B3 U0 G3	16,100	B3 U0 G3	13,800	B2 U0 G2	16,100	B3 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G3	18,600	B3 U0 G3	22,100	B3 U0 G3
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G3	31,000	B3 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



RESTL Test Report #: PL16064-001A
OSQL-B-30L-40K7-3M-UL w/OSQ-BLSLF
Initial Delivered Lumens: 22,498

OSQL-B-30L-40K7-3M-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 24,500
Initial FC at grade

Type III Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	3,390	B1 U0 G1	3,510	B1 U0 G1	3,010	B1 U0 G1	3,510	B1 U0 G1
6L	5,250	B1 U0 G2	5,450	B1 U0 G2	4,680	B1 U0 G1	5,450	B1 U0 G2
9L	7,000	B1 U0 G2	7,275	B1 U0 G2	6,225	B1 U0 G2	7,275	B1 U0 G2
11L	8,525	B1 U0 G2	8,825	B1 U0 G2	7,575	B1 U0 G2	8,825	B1 U0 G2
16L	12,250	B2 U0 G2	12,700	B2 U0 G2	10,900	B2 U0 G2	12,700	B2 U0 G2
22L	16,300	B2 U0 G3	17,500	B2 U0 G3	14,650	B2 U0 G3	17,500	B2 U0 G3
30L	21,900	B3 U0 G4	24,500	B3 U0 G4	17,600	B2 U0 G3	24,500	B3 U0 G4

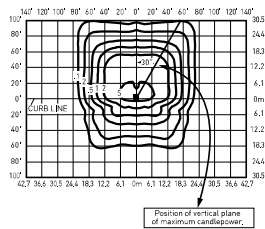
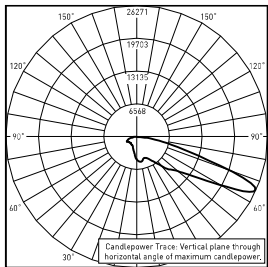
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/area/osq-series>

4M

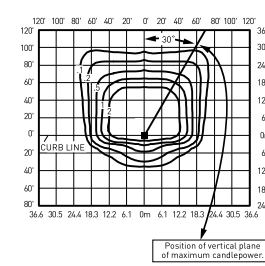
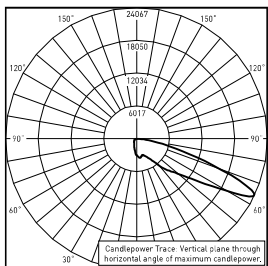


RESTL Test Report #: PL16065-001B
OSQL-B-30L-40K7-4M-UL
Initial Delivered Lumens: 30,752

OSQL-B-30L-40K7-4M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 31,000
Initial FC at grade

Type IV Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B1 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G3
16L	15,500	B2 U0 G3	16,100	B2 U0 G3	13,800	B2 U0 G2	16,100	B2 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G4	18,600	B3 U0 G3	22,100	B3 U0 G4
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G4	31,000	B3 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



RESTL Test Report #: PL16066-001B
OSQL-B-30L-40K7-4M-UL w/OSQ-BLSLF
Initial Delivered Lumens: 23,654

OSQL-B-30L-40K7-4M-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 23,800
Initial FC at grade

Type IV Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
4L	3,300	B0 U0 G1	3,410	B0 U0 G1	2,930	B0 U0 G1	3,410	B0 U0 G1
6L	5,100	B1 U0 G2	5,300	B1 U0 G2	4,550	B1 U0 G1	5,300	B1 U0 G2
9L	6,825	B1 U0 G2	7,075	B1 U0 G2	6,075	B1 U0 G2	7,075	B1 U0 G2
11L	8,300	B1 U0 G2	8,575	B1 U0 G2	7,375	B1 U0 G2	8,575	B1 U0 G2
16L	11,925	B1 U0 G2	12,350	B1 U0 G2	10,600	B1 U0 G2	12,350	B1 U0 G2
22L	15,900	B2 U0 G3	17,000	B2 U0 G3	14,250	B1 U0 G3	17,000	B2 U0 G3
30L	21,400	B2 U0 G4	23,800	B2 U0 G4	17,100	B2 U0 G3	23,800	B2 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



Date: _____
 Type: _____
 Fixture: _____
 Project: _____

Approved: _____

FCC600 Up/Down or Up, Standard Drivers without Battery Backup

6" Round wall mount up/down or up only cylinder outdoor



Made in USA with domestic & globally sourced components



FEATURES

- Up to 5000 lm, Up to 100 LPW
- Numerous mounting capabilities
- Clear anti-glare tempered glass lens (IK09)
- Multiple color finishes
- 0-10V 1% Dimming (Standard)
- 1.5G Vibration Tested
- 95 CRI with 2 SDCM

PERFORMANCE

Beam Spread: 15° | 25° | 40° | 50° | 72°
CCT Options: 2700K | 3000K | 3500K | 4000K
CRI: 93 CRI
Consistency: 2 SDCM (Fixture to Fixture)
Lumens: 5000 lm
Lifetime: > 70,000 hours / L70 or better

PHYSICAL

Mounting: Mounts directly to standard recessed junction box with wall mount or twist-lock canopy. Additional holes allow unit to be attached directly to mounting surface.

Ingress Protection: Continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations

Finish: Six stage chemical iron phosphate conversion pre-treatment. Polyester powder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification.

Warranty: 5-Year limited warranty (refer to website for details)

Housing: Heavy-walled, extruded aluminum housing with high pressure die-cast lens ring and cap with stainless steel hardware.

Lens: IK09 impact compliant, clear anti-glare tempered glass

Vibration Resistance: Compliant with 1.5G ANSI C136.31, Seismic rated AC-156

Weight: 8-12 lbs (Depending on Length)

Operating Temperature: -22°F to 122°F (-30°C to 50°C)

ELECTRICAL

Voltage: Universal 120–277V AC standard, 347V optional

Power Supply: Integral Class II, electronic high-power factor >.90, THD < 20%, FCC Title 47 Part 15 Class A. EldoLED & Lutron optional

Power Consumption: Up to 53W (5000 lm)

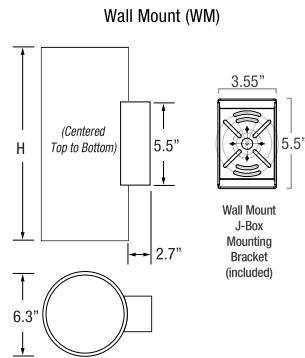
Dimming: Standard: 0-10V, 1% Dimming, Optional: ELV, TRIAC, dim to off, DMX, DALI

Certification: CEC Title 24 - JA8 Compliant (93 CRI Only)

Standards: cETLus Listed, CE, NOM, and RoHS Compliant. Wet location listed for wall or ceiling mount IP65 Ingress protection. 1.5G (ANSI C136.31) Vibration resistance rated. IK09 (IEC6226) Impact resistance rated. IESNA LM79 Photometric testing by NVLAP accredited test lab. IESNA LM80 LED testing by NVLAP accredited test lab. IESNA TM21 Luminaire lumen depreciation projection to >70,000hrs.

PHYSICAL DIMENSIONS

Fixture	Height (H)
FCC610W	10.95" Height (1 Integral Driver Only)
FCC612W	12.95" Height (1 Integral Driver Only)
FCC614W	14.95" Height (1 Integral Driver Only)
FCC616W	16.95" Height (1 Integral Driver Only)
FCC618W	18.95" Height
FCC620W	20.95" Height
(All above are Wall Mount Standard)	



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.



US Commercial Lighting Manufacturer Since 1982

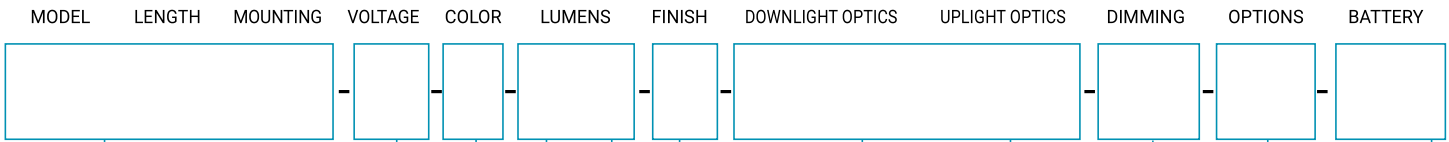


Date: _____ Approved: _____
 Type: _____
 Fixture: _____
 Project: _____

FCC600 Up/Down or Up, Standard Drivers without Battery Backup

PRODUCT CODE

EXAMPLE: FCC610W-UNV-927-505L-BKE-D15U15-ET



MODEL

FCC610W	10.95" Height (1 Integral Driver Only)
FCC612W	12.95" Height (1 Integral Driver Only)
FCC614W	14.95" Height (1 Integral Driver Only)
FCC616W	16.95" Height (1 Integral Driver Only)
FCC618W	18.95" Height
FCC620W	20.95" Height
(All above are Wall Mount Standard)	

DOWN LUMENS (nominal) UP LUMENS

NO	No Light Option	
5	500 lm	05L
10	1000 lm	10L
15	1500 lm	15L
20	2000 lm	20L
25	2500 lm	25L
30	3000 lm	30L
35	3500 lm	35L
40	4000 lm	40L
45	4500 lm	45L
50	5000 lm	50L

(50L Max Total output) (Standard Lumen Output Split 50% Up / 50% Down) (Additional driver needed for unequal output selections)

DOWN LIGHT OPTICS (nominal) UPLIGHT OPTICS

D15	Spot (15°) (15L Max)	U15
D25	Narrow Flood (25°)	U25
D40	Mid Flood (40°)	U40
D50	Flood (50°)	U50
D72	Wide Flood (72°)	U72

WITH SOFT FIELD LENS (Below)

D15S	Spot (15°) (15L Max)	U15S
D25S	Narrow Flood (25°)	U25S
D40S	Mid Flood (40°)	U40S
D50S	Flood (50°)	U50S
D72S	Wide Flood (72°)	U72S

DIMMING

ET	ELV or TRIAC Driver (120V Phase Dimming w/ UNV Driver) (20L-45L Only)
LD	0-10V Dimming, 1% (Standard)
ET2	ELV or TRIAC Drivers (Qty. 2) (120V Phase Dimming w/ UNV Drivers) (20L-45L Only)
LD2	0-10V Dimming, 1% (Qty. 2)

OPTIONS

CV	Cut-Off Visor (Down Only)
-----------	---------------------------

BATTERY

N/A	(Leave Blank)
------------	---------------

VOLTAGE

UNV	Universal 120-277 Volt AC
347V	347 Volt AC

COLOR

927	(93CRI) 2700K
930	(93CRI) 3000K
935	(93CRI) 3500K
940	(93CRI) 4000K

FINISH

BKE	Black (AAMA 2604)
BRE	Bronze (AAMA 2604)
SLE	Silver (AAMA 2604)
WHE	White (AAMA 2604)
CCE	Custom Color (AAMA 2604)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.





FCC600 Up/Down or Up, Standard Drivers without Battery Backup

LUMENS nominal

Model	Watts	940
FCC6	5W (Min)	500 lm (Min)
	53W (Max)	5000 lm (Max)

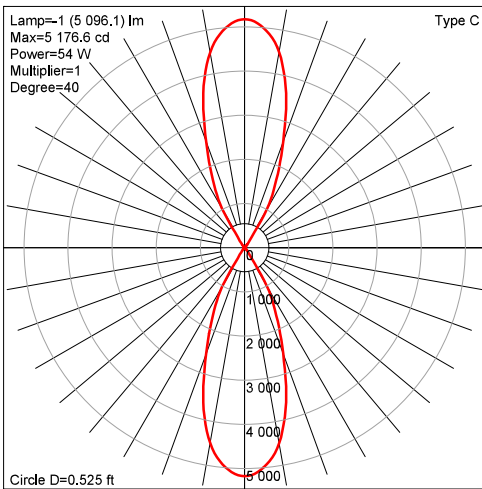
IES Multiplier	
Color	Multiplier
927	0.93
930	0.97
935	0.99
940	1.00

*83CRI≤1.15 Consult factory.

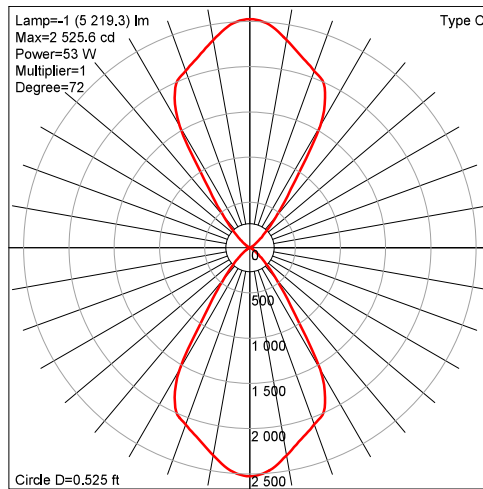
TRIAC & ELV Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Glyder GLV-600
	Diva DVLV-600P
	Diva DV-600P
	Diva DVELV-600P(303)
	Maestro MALV-600
	Nova T NT-1000
	Nova T NTELV-600
Leviton	Skylark SLV-600P
	RadioRA2-10ND
	SureSlide 6633
	Illumatech IPE04

0-10V Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Diva DVSTV-XX
	Diva DVSTV-453PH-WH1
Leviton	Illumatech 010-IP710-DLZ

PHOTOMETRICS

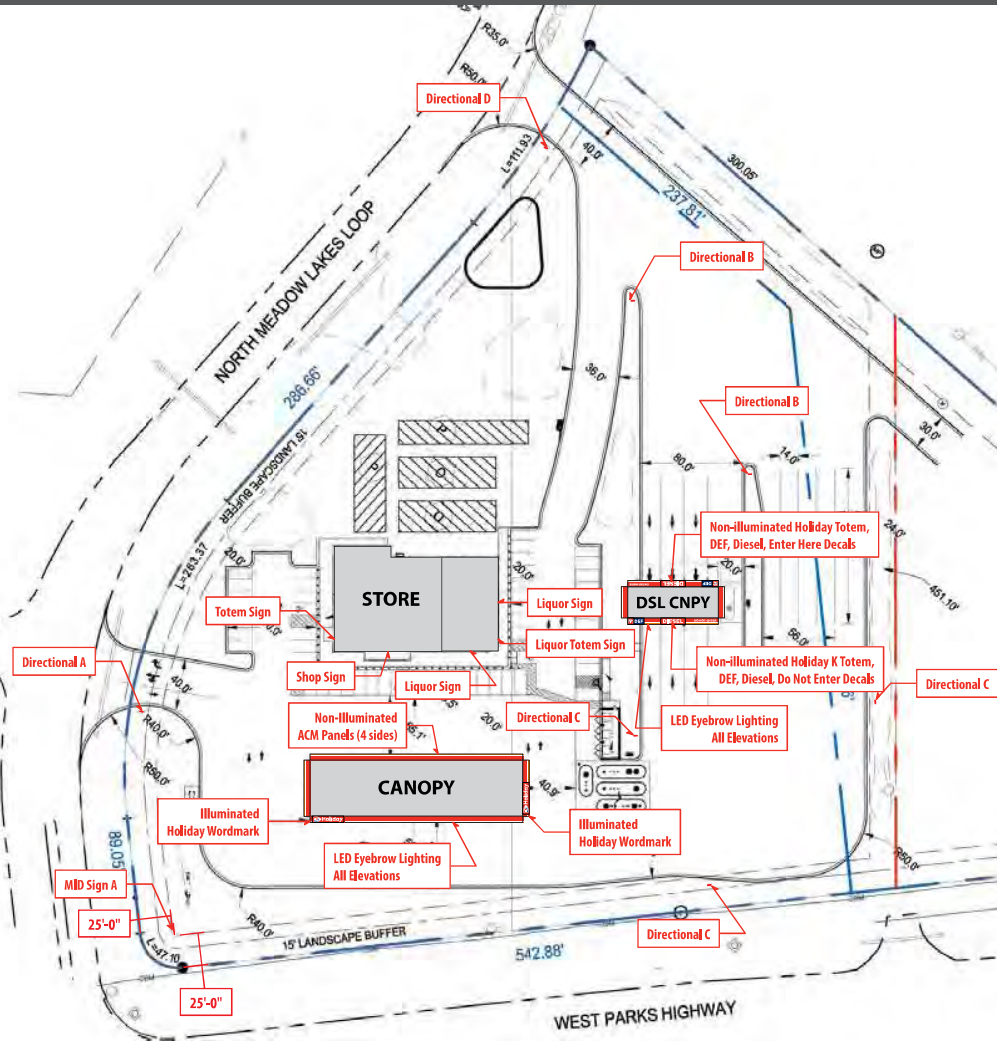


Circle D=0.525 ft
 Manufacturer: FC Lighting
 Luminaire catalog: F002550FCC6184K50LD40U40



Circle D=0.525 ft
 Manufacturer: FC Lighting
 Luminaire catalog: F002553FCC6184K50LD72U72

GEORGE PARKS HIGHWAY & N MEADOW LAKES



CUSTOMER	HOLIDAY STORES
SITE NUMBER	0000

LOCATION	WASILLA, AK
ACCOUNT REP	BEN DEHAYES

DRAWN BY	MH
REVISION	02
DATE	09/12/22
SCALE	NTS

CORPORATE ID SOLUTIONS	5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600 F: 773-763-9606 CORPORATEIDSOLUTIONS.COM
------------------------	--

CUSTOMER ACCEPTANCE	THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.
SIGNATURE	_____
DATE	_____

PROPOSED



SOUTH ELEVATION

NEW CONSTRUCTION

BUILDING INFO		HEIGHT	FRONT	SIDES
		18'-8"	128'-0"	82'-8"
SIGN DESCRIPTION		QTY	SIZE	AREA
A	Illuminated Hoiday Shop Sign	1	5'-0" x 12'-8 3/8"	63.4v SF
B	Illuminated Holiday Liquors Sign	2	3'-6" x 11'-0"	38.5 SF
C	Illuminated Holiday Liquors Totem	1	4'-0" x 4'-0"	16.0 SF
C	Illuminated Holiday Totem Sign	1	4'-0" x 4'-0"	16.0



CUSTOMER
HOLIDAY STORES

SITE NUMBER
0000

LOCATION
WASILLA, AK

ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH

DATE
09/12/22

REVISION
02

SCALE
NTS

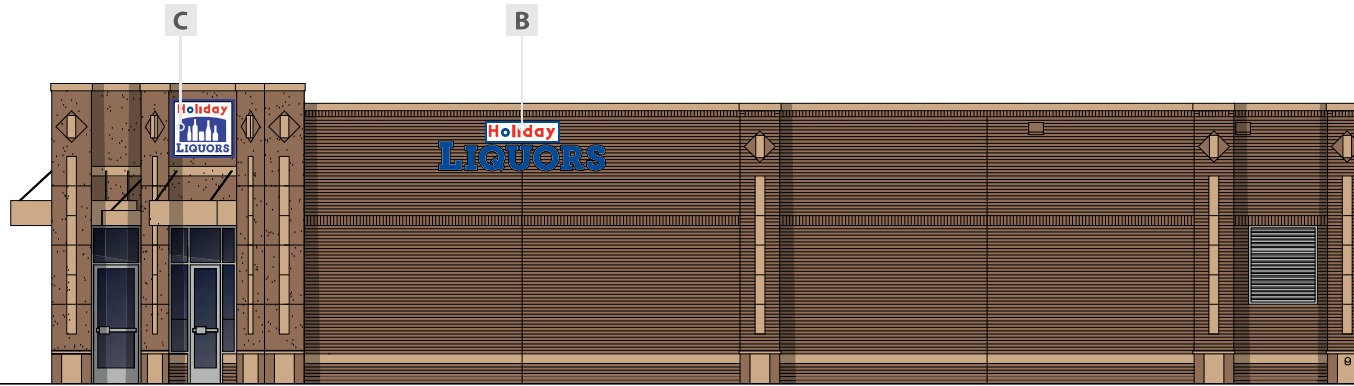
CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.

SIGNATURE _____ DATE _____

PROPOSED



EAST ELEVATION

NEW CONSTRUCTION

BUILDING INFO		HEIGHT	FRONT	SIDES
		18'-8"	128'-0"	82'-8"
SIGN DESCRIPTION	QTY	SIZE	AREA	
A Illuminated Hoiday Shop Sign	1	5'-0" x 12'-8 3/8"	63.4v SF	
B Illuminated Holiday Liquors Sign	2	3'-6" x 11'-0"	38.5 SF	
C Illuminated Holiday Liquors Totem	1	4'-0" x 4'-0"	16.0 SF	
C Illuminated Holiday Totem Sign	1	4'-0" x 4'-0"	16.0	



CUSTOMER
HOLIDAY STORES

SITE NUMBER
0000

LOCATION
WASILLA, AK

ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH

DATE
09/12/22

REVISION
02

SCALE
NTS

CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.

SIGNATURE _____ DATE _____

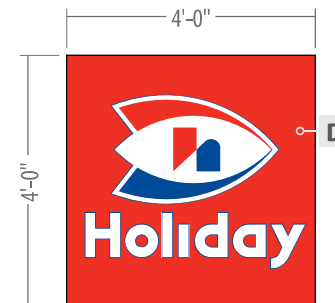
PROPOSED



WEST ELEVATION

NEW CONSTRUCTION

BUILDING INFO		HEIGHT	FRONT	SIDES
		18'-8"	128'-0"	82'-8"
	SIGN DESCRIPTION	QTY	SIZE	AREA
A	Illuminated Hoiday Shop Sign	1	5'-0" x 12'-8 3/8"	63.4v SF
B	Illuminated Holiday Liquors Sign	2	3'-6" x 11'-0"	38.5 SF
C	Illuminated Holiday Liquors Totem	1	4'-0" x 4'-0"	16.0 SF
C	Illuminated Holiday Totem Sign	1	4'-0" x 4'-0"	16.0



CORPORATE IDENTIFICATION SOLUTIONS

CUSTOMER
HOLIDAY STORES

SITE NUMBER
0000

LOCATION
WASILLA, AK

ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH

DATE
09/12/22

REVISION
02

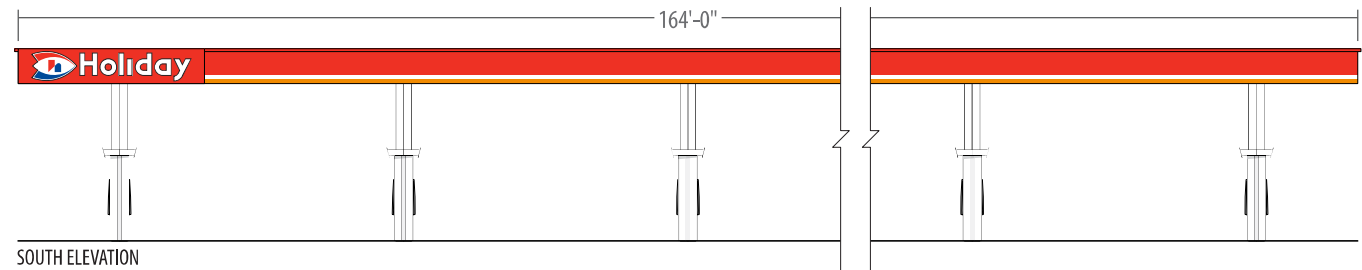
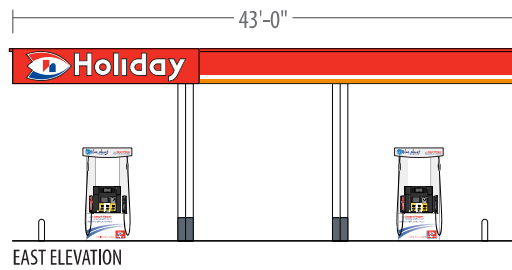
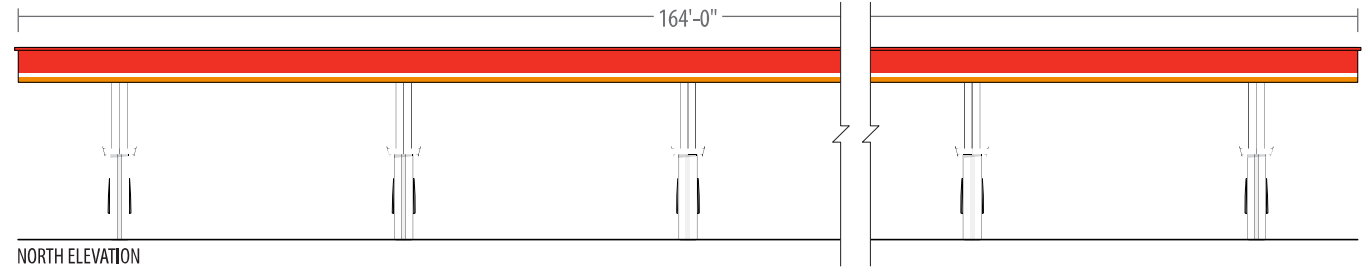
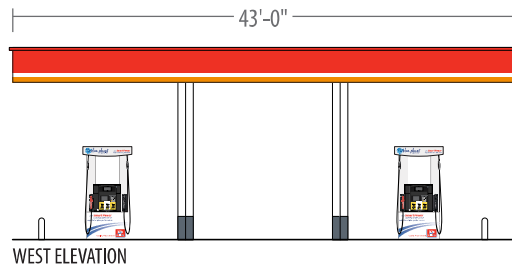
SCALE
NTS

CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.

SIGNATURE _____ DATE _____



NEW CONSTRUCTION

SOUTH ELEVATION

Gas Island Canopy Fascia	3'-0" x 164'-0"	492.0 SF	6.9% of available space
Illuminated Holiday Letters	30" x 164"	34.2 SF	

EAST ELEVATION

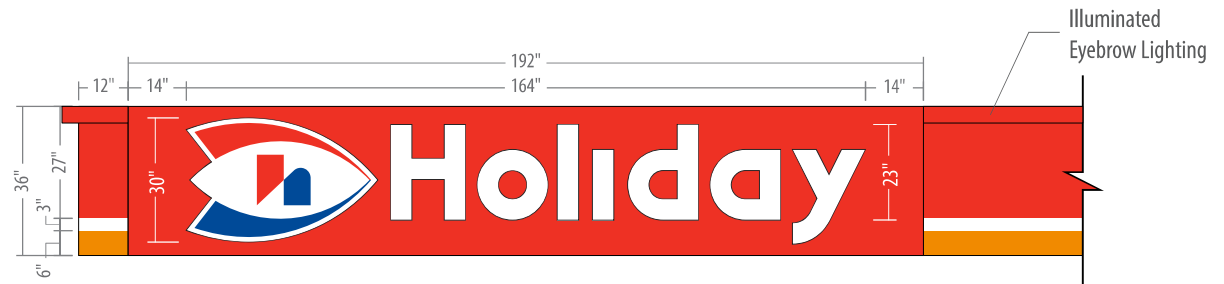
Gas Island Canopy Fascia	3'-0" x 43'-0"	129.0 SF	26.5% of available space
Illuminated Holiday Letters	30" x 164"	34.2 SF	

WEST ELEVATION

Non-illuminated Red, White, and Orange ACM panels

NORTH ELEVATION

Non-illuminated Red, White, and Orange ACM panels



**LED EYEBROW DOWNLIGHTING ON RED, WHITE, AND ORANGE ACM PANELS
EYEBROW LIGHTING ON ALL ELEVATIONS**



CORPORATE IDENTIFICATION SOLUTIONS

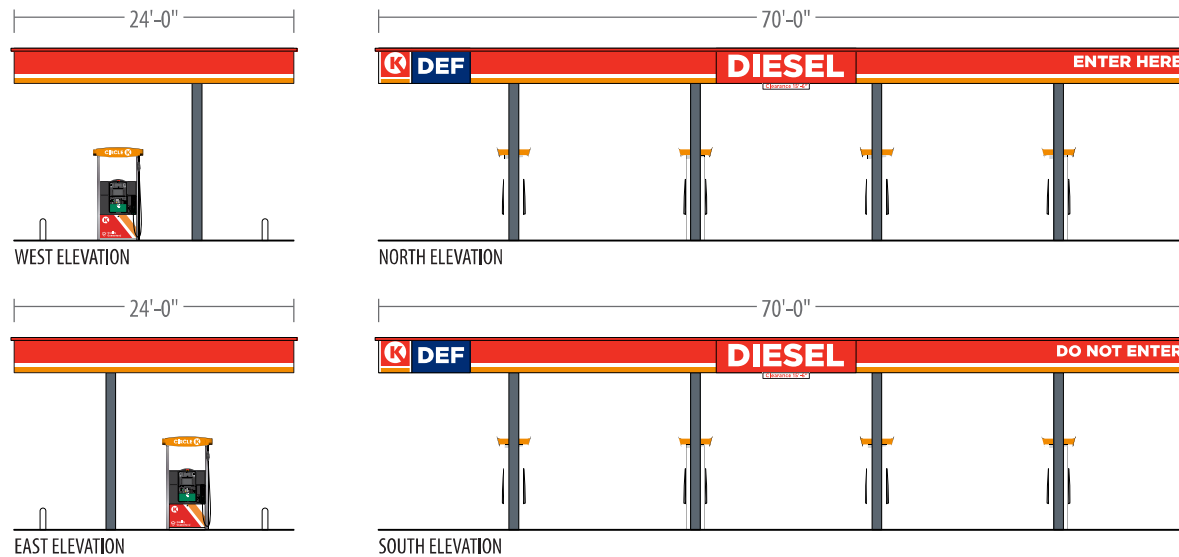
CUSTOMER	HOLIDAY STORES
SITE NUMBER	0000

LOCATION	WASILLA, AK
ACCOUNT REP	BEN DEHAYES

DRAWN BY	MH
REVISION	02
DATE	09/12/22
SCALE	NTS

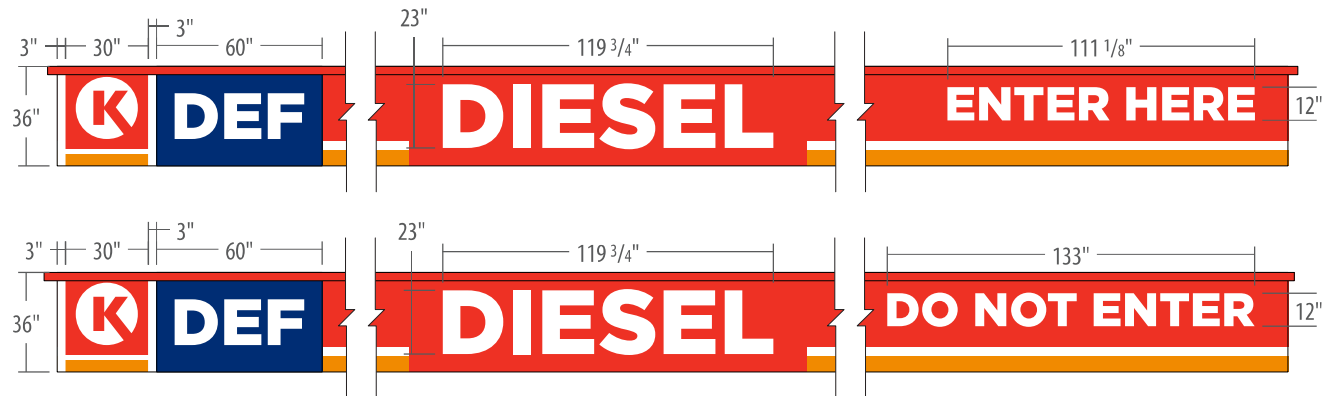
CORPORATE ID SOLUTIONS	5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600 F: 773-763-9606 CORPORATEIDSOLUTIONS.COM
-------------------------------	--

CUSTOMER ACCEPTANCE	THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.
SIGNATURE	_____
DATE	_____



NEW CONSTRUCTION

NORTH ELEVATION			
Gas Island Canopy Fascia	3'-0" x 70'-0"	210.0 SF	24.2% of available space
Non-Illum. Circle K Totem	36" x 30"	7.5 SF	
Non-Illum. Diesel Letters	23" x 119.75"	19.1 SF	
Non-Illum. Enter Here Letters	12" x 111 1/8"	9.2 SF	
DEF Decal	36" x 60"	15.0 SF	
SOUTH ELEVATION			
Gas Island Canopy Fascia	3'-0" x 70'-0"	210.0 SF	25.0% of available space
Non-Illum. Circle K Totem	36" x 30"	7.5 SF	
Non-Illum. Diesel Letters	23" x 119.75"	19.1 SF	
Non-Illum. Do Not Enter Letters	12" x 133"	11.0 SF	
Non-Illum. DEF Decal	36" x 60"	15.0 SF	
EAST ELEVATION			
Non-illuminated Red, White, and Orange ACM panels			
WEST ELEVATION			
Non-illuminated Red, White, and Orange ACM panels			



**NON-ILLUMINATED RED, WHITE, AND ORANGE ACM PANELS
LED EYEBROW DOWNLIGHTING ON ALL ELEVATIONS**



CORPORATE IDENTIFICATION SOLUTIONS

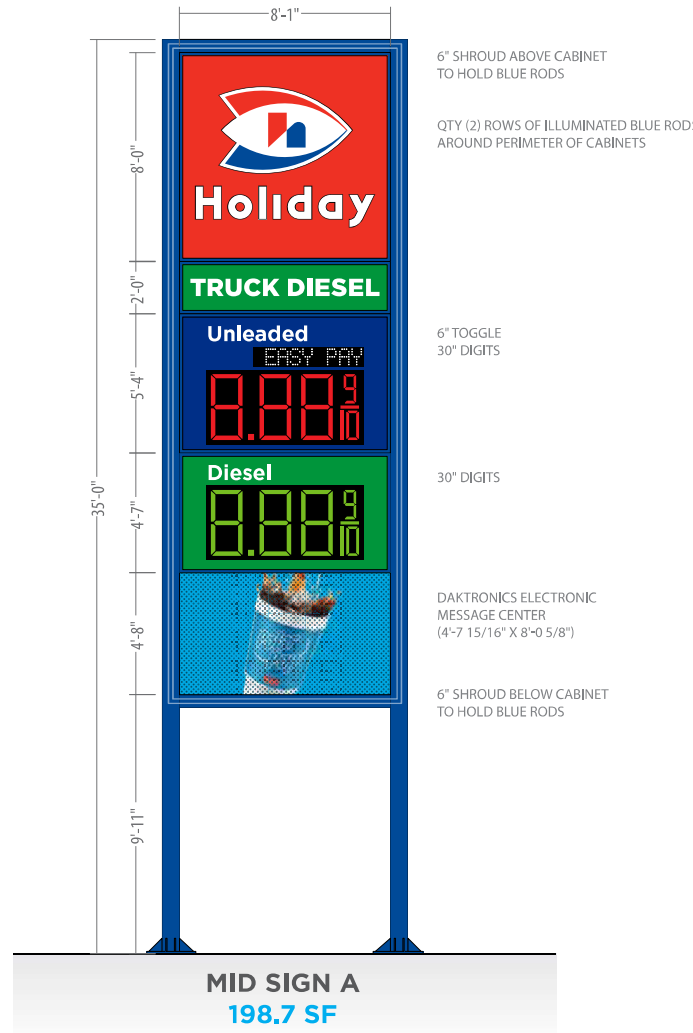
CUSTOMER
HOLIDAY STORES
SITE NUMBER
0000

LOCATION
WASILLA, AK
ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH
DATE
09/12/22
REVISION
02
SCALE
NTS

CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE
THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.
SIGNATURE _____ **DATE** _____



CORPORATE IDENTIFICATION SOLUTIONS

CUSTOMER
HOLIDAY STORES

SITE NUMBER
0000

LOCATION
WASILLA, AK

ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH

DATE
09/12/22

REVISION
02

SCALE
NTS

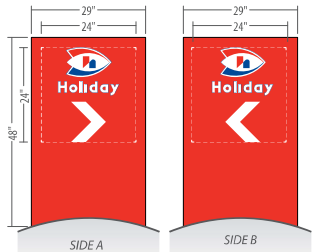
CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630
P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.

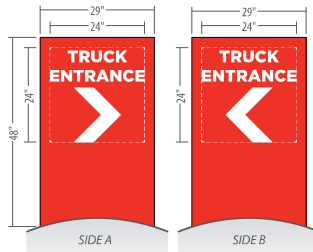
SIGNATURE _____ DATE _____

*** ALL DIRECTIONALS INSTALLED ***
ON BERMS TO GET ABOVE SNOW LINE



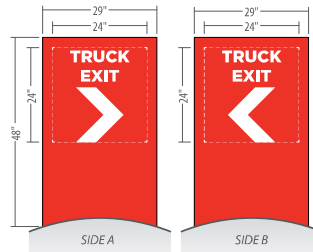
DIRECTIONAL A
NON-ILLUMINATED
4.0 SF

QTY (1)



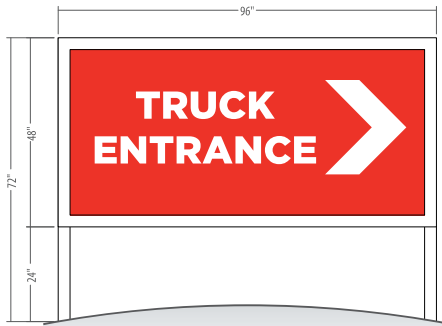
DIRECTIONAL B
NON-ILLUMINATED
4.0 SF

QTY (2)



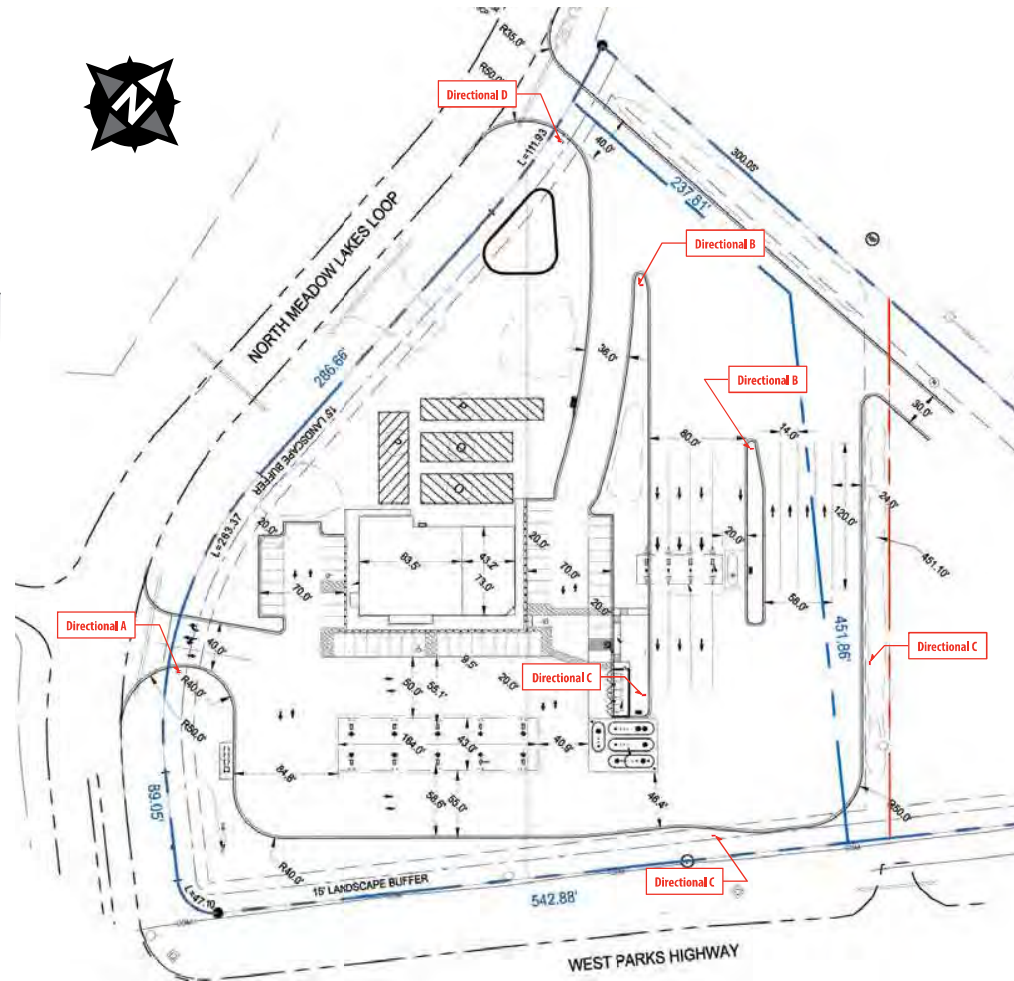
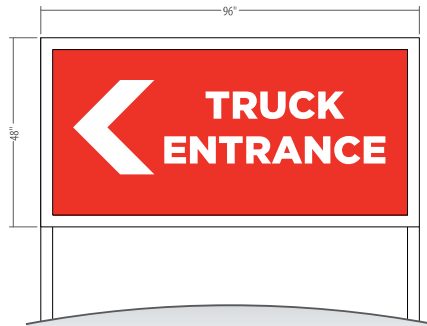
DIRECTIONAL C
NON-ILLUMINATED
4.0 SF

QTY (2)



DIRECTIONAL D
ILLUMINATED
32.0 SF

QTY (1)



CORPORATE IDENTIFICATION SOLUTIONS

CUSTOMER
HOLIDAY STORES

SITE NUMBER
0000

LOCATION
WASILLA, AK

ACCOUNT REP
BEN DEHAYES

DRAWN BY
MH

DATE
09/12/22

REVISION
02

SCALE
NTS

CORPORATE ID SOLUTIONS
5563 N ELSTON AVE.
CHICAGO, IL 60630

P: 773-763-9600 | F: 773-763-9606
CORPORATEIDSOLUTIONS.COM

CUSTOMER ACCEPTANCE

THIS DRAWING IS THE PROPERTY OF CORPORATE IDENTIFICATION SOLUTIONS, INC., CHICAGO, IL, AND CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING IS TRANSFERRED TO THE CUSTOMERS AND SUPPLIERS OF CORPORATE IDENTIFICATION SOLUTIONS, INC. BY WAY OF LOAN. THIS DRAWING MAY NOT BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, NOR MAY IT OR THE INFORMATION IT CONTAINS BE DISCLOSED OR TRANSFERRED TO ANY OTHER PARTY OR PERSONS WITHOUT THE PRIOR WRITTEN CONSENT OF CORPORATE IDENTIFICATION SOLUTIONS, INC.

SIGNATURE _____ DATE _____

APPENDIX 3: ADEC STORM WATER APPROVAL





THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Environmental
Conservation
DIVISION OF WATER

Wastewater Discharge Authorization
Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.334.2415

www.dec.alaska.gov/water/wastewater

May 2, 2023

Matt DeRaeve, PE
155 Baidarka St
Kenai, AK 99611

Re: Holiday Station Store Wasilla
Storm Water Project No.: 23-WW-107-006

Dear Mr. DeRaeve:

This letter is in response to your storm water plan received on 4/12/2023. Based on my review and in accordance with 18 AAC 72.600 Wastewater Disposal Regulations, the Department's storm water approval is granted. This storm water plan approval constitutes an authorization as specified under AS 46.03.100(a). Please keep me posted if any modifications to the subject plans are made.

This letter of approval does not imply the granting of additional authorizations, nor obligate any state, federal, or local government to grant any additional required authorizations.

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

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

Thank you for your coordination with the Department. If you have any questions, please contact me at 907-269-7542 or via email at Sam.Kito@Alaska.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Kito", written over a horizontal line.

Sam Kito III, P.E.
Engineer II, Storm Water and Wetlands



CONSULTING ENGINEERS
155 BIDARKA STREET
(907) 283-3583

STRUCTURAL CIVIL
KENAI, ALASKA 99611

April 12, 2023

Sam Kito

Storm Water & Wetlands Engineer
Division of Water
Alaska Department of Environmental Conservation
555 Cordova St.
Anchorage, AK 99501
Ph: 907-269-7542
Email: Sam.Kito@alaska.gov

**Re: Request Storm Water Letter of Approval – Permanent Storm Water Control Plan
Circle K Stores, Inc. – Holiday Station Store Wasilla
7751 West Parks Hwy, Wasilla, AK 99623
Property Description: T17N, R2W, Section 9 Lots A22 and A14
Nelson Engineering Project Number: 2022069**

Dear Mr. Kito,

Plans for the proposed Wasilla Holiday Station Store and a Permanent Storm Water Control Plan (PSWCP) report are attached for your review. We are seeking a Storm Water Approval Letter for the proposed drainage improvements for the project.

Sincerely,

Matthew Z. DeRaeve



4/12/23

Attachments: Plans, Plan Review Checklist, PSWCP Report

Alaska Department of Environmental Conservation

Permanent Storm Water Management Control Plan Review Checklist

Filled in by DEC
 Date of Submittal: _____
 Project Number: _____

Project Name: Circle K Stores, Inc. – Holiday Station Store Wasilla	
Project Street/Location: 7751 West Parks Hwy	
City: Wasilla	State: Alaska Zip:99623
Latitude: 61.57957	Longitude: -149.6462
Receiving Waterbody: Runoff to be contained on site with overflow Bluebird Lake	
Estimated Distance from Waterbody to Project Site: 300 ft to northwest	
Estimated Start Date: 05/15/2023	Estimated Completion Date: 10/31/2023
Estimated Total Project Area (Nearest quarter acre): 6.75	
Estimated Area to be Disturbed (Nearest quarter acre): 6.75	

Applicant (Organization): Circle K Stores, Inc.	
Contact Person: Mark Stinson-Owner; Glenn Harvey(Bergmann)-Project Manager	
Mailing Street (PO Box): 4567 American Boulevard W	
City: Bloomington	State: MN Zip: 55437
Phone: Glenn Harvey (585) 498-7832	Email: gharvey@bergmannpc.com

Applicant Representative (Organization): Nelson Engineering, PC	
Contact Person: Matt DeRaeve, PE	
Mailing Street (PO Box): 155 Bidarka St	
City: Kenai	State: AK Zip: 99611
Phone: (907) 420-7191	Email: mderaeve@nealaska.com

General Project Information – Provide the following information.			
Item		Yes/ No	Comments
1.	Address and legal description of site	Yes	See attached PSWCP
2.	Vicinity Map	Yes	See attached PSWCP
3.	Project narrative	Yes	See attached PSWCP
3.a.	Purpose of project	Yes	See attached PSWCP
3.b.	Impact of development on site hydrology and stormwater quality	Yes	See attached PSWCP
3.c.	Description of stormwater management system	Yes	See attached PSWCP
3.d.	Rationale for selection of stormwater treatment practices	Yes	See attached PSWCP
4.	Description of runoff flows down to the discharge point(s)	Yes	See attached PSWCP
5.	Treatment System’s maintenance procedures	Yes	See attached PSWCP
6.	Describe existing and proposed topography	Yes	See attached PSWCP
7.	Delineate Drainage Areas and Flow Paths	Yes	See attached PSWCP
8.	Describe type and location of storm water management practice(s)	Yes	See attached PSWCP
9.	Identify if the receiving waterbody on the Impaired Waters List (303d list)	Yes	See attached PSWCP
10.	Describe predominant soils type(s)	Yes	See attached PSWCP
11.	Existing land cover/land use and the proposed limits of disturbance	Yes	See attached PSWCP
12.	Identify Resource Protection Areas (e.g. sensitive streams, wetlands and lakes)	Yes	See attached PSWCP
13.	Identify stream buffer or setbacks	Yes	See attached PSWCP
14.	Identify existing and proposed roads, buildings and other structures	Yes	See attached PSWCP
15.	Identify snow storage and disposal locations	Yes	See attached PSWCP
16.	Provide storm water treatment system design and calculations	Yes	See attached PSWCP
17.	Make sure all engineering design and calculations are stamped by Alaska licensed engineer (18 AAC 72.600 and 18 AAC 72.990(29))	Yes	See attached PSWCP
18.	Pay fee described in 18 AAC 72.955 Table D, Plan review fees, make checks payable to “State of Alaska”	Yes	Fee to be paid by Owner

NOTE: For projects using oil and grit separators to obtain an ADEC letter of non-objection for discharge to storm sewers, an applicant must demonstrate that their proposed oil and grit separator has the ability to remove at least 50 percent of particles 20 micron in size from storm water runoff during the 2-year, 6-hour rain event.

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

PERMANENT STORM WATER CONTROL PLAN FOR HOLIDAY STATION STORE T17N, R2W, SEC 9, LOTS A14 AND A22 WASILLA, ALASKA



**PREPARED BY
NELSON ENGINEERING, PC
155 BIDARKA STREET
KENAI, ALASKA**

APRIL 12, 2023

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
 Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

INDEX

1. SITE DESCRIPTION 3
 A. PROPERTY BOUNDARY 3
 B. CONSTRUCTION SITE BOUNDARY (AREA OF DISTURBANCE)..... 3
 C. EXISTING SOIL CONDITIONS 3
 D. APPROXIMATE DEPTH OF GROUNDWATER 3
 2. SITE CONDITIONS 4
 A. PRE-DEVELOPMENT SITE CONDITIONS..... 4
 B. POST-DEVELOPMENT SITE CONDITIONS..... 4
 C. IMPERVIOUS AREA 5
 D. DRAINAGE PATTERNS TO AND FROM THE SITE 5
 E. HISTORICAL DRAINAGE PROBLEMS 5
 3. RECEIVING WATERS 5
 A. MS4 POINT OF DISCHARGE, OUTFALL RECEIVING WATERS **Error! Bookmark not defined.**
 4. POLLUTANT SOURCES..... 6
 A. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES FROM PROPOSED LAND USE 6
 5. BMP SELECTION 6
 A. BMP DESCRIPTIONS 6
 6. OPERATIONS & MAINTENANCE PROCEDURES..... 6
 APPENDIX A: SITE PLAN..... 7
 APPENDIX B: SIZING AND DESIGN INFORMATION 8
 APPENDIX C: OPERATIONS AND MAINTENANCE PLAN..... 9

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

1. SITE DESCRIPTION

A. PROPERTY BOUNDARY

The proposed project is located at the northeast corner of the W. Parks Highway and N Meadows Lake Loop intersection. The site is bordered by W. Parks Highway to the southeast, N. Meadow Lakes Loop to the southwest and Rainbow Ridge Subdivision Tract A to the north. The area served by the proposed drainage improvements are limited to the property described as Lot A22 and a portion of Lot A14.

B. CONSTRUCTION SITE BOUNDARY (AREA OF DISTURBANCE)

The combined proposed development area includes Lot A22 (2.85 acres) and 3.88 acres of A14, for a total area of 6.73 acres. A utility easement is located at the east corner of lot A22.

The construction of the proposed project includes the development of a combined convenience store and liquor store building (8,857 square feet), fuel station pads and canopies, an asphalt paved parking lot surrounding the building, and landscaped areas along the perimeter of the combined lot area. Bioretention swales will be constructed within the landscape areas to collect stormwater runoff from the site. The development will consist of demolishing existing structures, excavating unsuitable soils, constructing the new buildings and canopies, backfilling with NFS gravel, grading the lots, repaving the lots, and landscaping. The entire 6.73 area expected to be disturbed during construction.

C. EXISTING SOIL CONDITIONS

A geotechnical report was prepared by Northern Geotechnical Engineering, Inc. *d.b.a.* Terra Firma Testing in December 2021.

According to the geotechnical report, the northeast corner of the Lot A14 as is overlain by very loose to loose fill ranging from silty sand to silty gravel. The fill is underlain by a small layer of native organics that was not removed entirely prior to the placement of the fill. The fill extended as deep as 15 feet in the exploration however may be deeper in areas depending on the native elevation. Moving southeast on the project site the fill thins to native gravel with sand to the surface for the remainder of the cleared area of Lot A14. The native gravel material consists of gravel with sand to the depth of our explorations.

Lot A22 is overlain by medium dense to dense sand and gravel deposits to at least 31.5 feet. There is a thin layer of organics (approximately two inches in thickness) located on the surface. In the center of the lot, loose sand and gravel were encountered to approximately 15 feet.

The report made no mention of elevated field screening results, visible staining, petroleum odors, or other evidence of contamination in the soils borings. No laboratory sampling was considered necessary for the purposes of the development.

D. APPROXIMATE DEPTH OF GROUNDWATER

According to the Northern Geotechnical Engineering, Inc. geotechnical report, the depth of groundwater ranged from 18-ft to approximately 20-ft below the top of the existing grade of the site. Groundwater would be expected to vary seasonally.

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
 Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

2. SITE CONDITIONS

A. PRE-DEVELOPMENT SITE CONDITIONS

Lot A22 was previously utilized as a laundromat and RV park. A gravel parking area with abandoned RV hookups are still present on the lot.

On Lot A14 an existing 80’ x 30’ building, an 80’ x 12’ building and a 34’ X 16’ building are present. The owner plans to demolish these structures prior to beginning construction. The existing lot development includes a gravel parking area. There are some small patches concrete near the buildings. A majority of the lot has already been cleared, with vegetated areas to the southwest, north and east portions of the lot. The surface area of the lots consists of the following:

<u>DESCRIPTION</u>	<u>AREA (SF)</u>	<u>%</u>
Impermeable (Asphalt, Concrete, Bldgs)	5,500	1.9%
Gravel	88,710	30.3%
Forest	71,450	24.4%
Natural Brush	127,572	43.4%
Total	293,232	100%

Most of the site is relatively flat with a gentle slope towards the perimeter of the lot. A topographical survey was performed on November 16, 2021 by Edge Survey and Design, LLC. Existing grades indicate that the stormwater is directed into the deep ditchlines along the adjacent roadways. The lot dips in elevation towards the northwest.

For purposes of determining pre-development runoff, conservative estimates of C values are used. The following C values have been assigned to the pre developed site:
 Pre-Development:

<u>LANDCOVER</u>	<u>C-VALUE</u>	<u>DESCRIPTION</u>	<u>%AREA</u>
Impervious	0.90	Type B Soils, 2-6% Slope	1.9%
Gravel	0.60	Type B Soils, 2-6% Slope	30.3%
Forest	0.45	Type B Soils, 2-6% Slope	24.4%
Natural Brush	0.55	Type B Soils, 2-6% Slope	43.4%

The weighted C for pre-development conditions is calculated as follows:
 $C_{pre} = .019 \times 0.90 + 0.303 \times 0.60 + 0.244 \times 0.45 + 0.434 \times 0.55 = 0.5474$

There are no known drainages, streams, or other surface water easements within or adjacent to the site.

B. POST-DEVELOPMENT SITE CONDITIONS

The development plan includes the construction of 183,000 square feet of impervious surfaces, including a 8,857 square foot convenience store/liquor store, 174,143 square foot impermeable asphalt/concrete. The development will also include 110,232 square foot landscaping areas. The perimeter of the lots will be bordered with landscaped areas with bioretention swales providing 37,800 cubic feet of storage area for stormwater runoff and snow storage.

<u>DESCRIPTION</u>	<u>AREA (SF)</u>	<u>%</u>
Impermeable (Asphalt, Concrete, Bldgs)	183,000	62.4%
Vegetation	110,232	37.6%
Total	293,232	100%

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
 Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

The existing structures will be demolished prior to the start of construction. Foundations, underground tanks, leach field, concrete pads, and asphalt pavement will be demolished onsite and be disposed of offsite. The lots will be excavated to approximately 2-ft below finish grade in undeveloped areas, approximately 4-ft below finish grade in the historic fill area in the Norwest area of Lot A14, and the unclassified excavated material will be hauled offsite. Non-frost susceptible engineered gravels will be imported to the site up to finish grade. The paved parking area will be capped with 2” of leveling course and 3” of asphalt pavement. The bioretention swales are sized to meet the requirements of the Municipality of Anchorage Drainage Design Guidelines to minimize runoff from the site.

For the purposes of determining post-development runoff, conservative estimates of C values were used. A C-value of 0.90 is used for all impervious areas, a C-value of 0.30 is used for all landscaped areas. The post-development weighted C for each sub catchment is calculated as follows:

Post-Development:

<u>LANDCOVER</u>	<u>C-VALUE</u>	<u>DESCRIPTION</u>	<u>%AREA</u>
Impervious	0.90	Type B Soils, 2-6% Slope	62.4%
Landscaping	0.30	Type B Soils, 2-6% Slope	37.6%

The weighted C for post-development conditions is calculated as follows:

$$C_{post} = .624 \times 0.90 + 0.376 \times 0.30 = 0.674$$

No drainage ways will be filled in order to construct this project.

Based on runoff threshold calculations, the project will be designed with bioretention ponds in order to store the additional runoff from the site due to post-development construction.

C. IMPERVIOUS AREA

The development plan will increase the impervious area by 85.3% from the pre-development condition on the site, making the total impervious area equal to 97,575 square feet or 88.3% of the total area. The gravel area (89.6% of the pre-development condition) will be replaced with a near-equal amount of impervious area.

D. DRAINAGE PATTERNS TO AND FROM THE SITE

The pre-developed total lot area elevation on site is higher than the surrounding roadways. A majority of the storm water runoff is directed to the perimeter of the site and the area of low elevation to the northwest of Lot A14. Lot areas directly surrounding the project site are mostly undeveloped.

The post-developed lot will direct storm water runoff from the roofs and impervious areas to onsite bioretention swales located around the perimeter of the site. The bioretention swales are oversized to store more than the initial 0.5 inch of runoff from each storm event.

E. HISTORICAL DRAINAGE PROBLEMS

Historic drainage problems were not documented in the geotechnical report and the environmental assessment documents.

3. RECEIVING WATERS

The bioretention swales surrounding the site are oversized (37,800 cubic feet) to store the total amount of runoff from a 10-year, 1-hour storm vent (8,405 cubic feet). If a larger storm event occurs, storm

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
 Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

water runoff will discharge into the existing ditchlines on W. Parks Highway and North Meadow Lakes Loop.

4. POLLUTANT SOURCES

A. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES FROM PROPOSED LAND USE

Trade Name Material	Storm Water Pollutants	Location
Hydraulic oil/fluids	Mineral Oil	Leaks or broken hoses on equipment.
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE	Leaks or spills from vehicles filling up at pump stations or delivery trucks spills
Diesel Fuel	Petroleum oil, grease, naphthalene, xylenes	Leaks or spills from vehicles filling up at pump stations or delivery trucks spills
Heating Oil	Petroleum oil	Leaks or spills from delivery trucks for building heating oil tank.
Antifreeze	Ethylene glycol, propylene glycol, heavy metals	Leaks or broken hoses on vehicles
Wastewater	Pathogens	RV Dump Station spills

5. BMP SELECTION

A. BMP DESCRIPTIONS

Vegetated bioretention ponds will be located around the perimeter of the parking lot to treat stormwater runoff from the building and parking lot areas. Curb drains and curb spillways will be located along the curbs bordering the parking lot to allow storm water runoff to flow into the bioretention ponds.

The bioretention ponds promote the conveyance of storm water at a slower and controlled rate and act as a filter medium, removing pollutants and allowing stormwater infiltration. The ponds are oversized to store the entire runoff from a 10-year, 1-hour storm event. This results in a significant improvement from the pre-developed site in both slowing and cleaning the water from a storm event. In the event storm water runoff exceeds the 10-year, 1-hour amount, the runoff will be directed into the existing ditchlines of the surrounding roadways as it was prior to the rebuild.

6. OPERATIONS & MAINTENANCE PROCEDURES

See Appendix C

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

APPENDIX A: SITE PLAN

GENERAL NOTES

1. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ACTUAL DEPTH, NUMBER AND LOCATION UNKNOWN... THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, IDENTIFYING, AND WORKING AROUND ALL UTILITIES WITHIN THE PROJECT LIMITS...

EARTHWORK

ALL EARTHWORK, INCLUDING EXCAVATION AND BACKFILL, SHALL CONFORM TO THE GEOTECHNICAL REPORT... GEOTECHNICAL ENGINEERING REPORT FOR THE PROPOSED IMPROVEMENTS TO 7899 AND 7751 W. PARKS HWY, WASILLA, ALASKA...

ALL SOIL, SAND, GRAVEL, AND ROCK MATERIALS SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

BASE COURSES CONFORMING TO ADOT&P SSC SECTION 703-2.03. CRUSHED STONE OR CRUSHED GRAVEL, CONSISTING OF SAND, TIGHT, DURABLE PEBBLES OR ROCK FRAGMENTS OF UNIFORM QUALITY...

Table with 2 columns: SIZE and PERCENT PASSING. Rows for 1 1/2", 1", 3/8", No. 4, No. 10, No. 20.

Table with 2 columns: SIZE and PERCENT PASSING. Rows for 1 1/2", 1", 3/8", No. 4, No. 10, No. 20.

SUBBASE COURSE CONFORMING TO ADOT&P SSC SECTION 703-2.09. HARD, DURABLE PARTICLES OR FRAGMENTS OF STONE OR GRAVEL... FROZEN MATERIAL, ROOTS, SOIL, OR OTHER DELETERIOUS MATERIALS.

Table with 2 columns: SIZE and PERCENT PASSING. Rows for No. 1, No. 4, No. 10, No. 20.

PIPE BEDDING FILL CLASS "E" BEDDING SHALL BE PLACED SO AS TO ENSURE THE PIPE IS GIVEN A UNIFORM BEARING FOR ITS FULL LENGTH. THE PIPE SHALL BE BEDDED FILL MEETING THE FOLLOWING GRADATION:

Table with 2 columns: SIZE and PERCENT PASSING. Rows for 4", No. 4, No. 10, No. 20.

NON-FROST SUSCEPTIBLE (NFS) FILL AGGREGATE CONTAINING NO MUCK, FROZEN MATERIAL, ROOTS, SOIL OR OTHER DELETERIOUS MATTER AND WITH A PLASTICITY INDEX NOT GREATER THAN 6 AS TESTED BY ASTM 204 AND ASTM 205 MEETING THE FOLLOWING GRADATION:

Table with 2 columns: SIZE and PERCENT PASSING. Rows for No. 4, No. 20.

GEO-FABRIC TYPE A, CLASS 2 PER GEOTECHNICAL REPORT SUBMIT: -GEO-TESTING LABORATORY AND LIST OF TESTED MATERIALS FOR APPROVAL... -GRADATIONS TESTING AND SUPPLIER FOR ALL SOILS MATERIALS...

COMPACTION PRIOR TO THE PLACEMENT OF THE FILL, THE EXCAVATION SHALL BE INSPECTED TO ASSURE THAT ANY SOFT, FROZEN, OR ORGANIC SOILS HAVE BEEN REMOVED. THE PREPARED SURFACE SHALL BE COMPACTED TO NINETY-FIVE PERCENT (95%) OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 OR AN EQUIVALENT TEST PROCEDURE...

COMPACTION TESTING PROVIDE NUCLEAR DENSOMETER TESTING OF ALL COMPACTED SOILS. PROVIDE AT LEAST THE MINIMUM NUMBER OF TESTS AS LISTED:

- BELOW FOOTINGS: -ONE PER 1000 SF OF COMPACTED SOILS IN AN OPEN EXCAVATION. TRENCH: -ONE PER 100 LF OF UTILITY TRENCH PER LIFT... -ONE PER 50 LF OF TRENCH FOOTING... -ONE PER HEADBOLT OR LIGHT BASE... -ONE PER 500 SF OR AT LEAST ONE. BELASPIRE: -ONE PER 5000 SF PER LIFT.

WATER SYSTEM MATERIALS

CONSTRUCTION, MATERIALS, AND TESTING FOR WATER SYSTEM SHALL CONFORM TO ADEC REGULATIONS 18 AAC 60 AND ANWA G901. PROVIDE THE FOLLOWING AS REQUIRED AND ALL OTHER MATERIALS REQUIRED FOR THE INSTALLATION OF THE WATER SYSTEM.

ALL PIPES, PIPE FITTINGS, PLUMBING FITTINGS, FIXTURES, AND PUMPS USED IN WATER CONSTRUCTION SHALL NOT CONTAIN MORE THAN A 0.25 PERCENT WEIGHTED AVERAGE OF LEAD, SOLDER AND FLUX SHALL NOT CONTAIN MORE THAN 0.2 PERCENT LEAD.

PIPE HIGH DENSITY POLYETHYLENE PIPE (HDPE) AND FITTINGS ARE TO BE MANUFACTURED IN ACCORDANCE WITH ANWA G901 WITH THE ADDITIONAL SPECIFICATION THAT THE HDPE IS TO BE MANUFACTURED FROM PE4710 POLYETHYLENE COMPOUNDS THAT MEET OR EXCEED ASTM D3350 CELL CLASSIFICATION 445774... HOPE INSULATION JACKET (COLOR BLUE) WITH 600-LB AVERAGE TENSILE BREAK LOAD...

DUCTILE IRON FITTINGS ANWA C153. GASKETS, LUBRICANT FOR PUSH ON MECH. JOINTS ANWA C111. NO-HUB PIPE CONNECTORS ASTM C1540.

TRACE WIRE COPPERHEAD INDUSTRIES #10 AWG HIGH-STRENGTH COPPER CLAD STEEL WITH A 30-MIL HOPE INSULATION JACKET (COLOR BLUE) WITH 600-LB AVERAGE TENSILE BREAK LOAD. SPICE CONNECTIONS TO BE 3M DBR WATERTIGHT CONNECTORS.

WATER SYSTEM SUBMITALS SUBMIT: -MANUFACTURER SUBMITTAL CUT SHEETS FOR ALL MATERIALS

WATER SUPPLY WELL

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR DRILLING, CASING AND GROUTING, SCREENING, DEVELOPING AND TESTING ONE 6" WATER WELL FOR DOMESTIC DRINKING WATER USE AS SHOWN ON THE PLANS. IT IS UNDERSTOOD THAT CONTRACTOR SHALL PAY FOR ALL MATERIALS, LABOR, EQUIPMENT, WATER, LIGHT, POWER, TRANSPORTATION, SUPERINTENDENT, PERMITTER'S CONSTRUCTION OF EVERY NATURE AND ALL OTHER SERVICES AND UTILITIES NECESSARY TO EXECUTE, COMPLETE, AND DELIVER THE WORK REQUIRED TO CONSTRUCT THE WELL IN SPECIFIED TIME.

CONSTRUCTION, MATERIALS, AND TESTING FOR WATER SUPPLY WELL SHALL CONFORM TO ADEC REGULATIONS 18 AAC 80, ANS/AWWA A100 WATER WELLS, AND ANWA E102 STANDARD FOR SUBMERSIBLE VERTICAL TURBINE PUMPS.

ONE (1) DOMESTIC WATER WELL WILL BE INSTALLED AT THE LOCATION NOTED ON THE PROJECT PLANS. LOCATION MAY BE MODIFIED IN THE FIELD AS DICTATED BY ACTUAL SITE CONDITIONS AFTER CONSULTATION WITH THE OWNER... CONSTRUCTION, MATERIALS, AND TESTING FOR WATER SUPPLY WELL SHALL CONFORM TO ADEC REGULATIONS 18 AAC 80, ANS/AWWA A100 WATER WELLS, AND ANWA E102 STANDARD FOR SUBMERSIBLE VERTICAL TURBINE PUMPS.

WELL CASING BLANK STEEL CASING SHALL BE OF NEW MILD OR LOW-CARBON STEEL WITH BEVELED ENDS. WELL CASING SHALL BE A MINIMUM OF 6" INSIDE DIAMETER. CASING WALL THICKNESS SHALL BE A MINIMUM OF 1/4". USE OF LEAD PACKING WILL NOT BE ACCEPTABLE.

GROUT MUST CONSIST OF 1 PART PORTLAND CEMENT IN ACCORDANCE WITH ASTM C150 AND 3 PARTS SAND MIXED WITH ONLY ENOUGH WATER TO FORM A WORKABLE MIX.

JOINTS JOINTING JOINTS SHALL BE WELDED WATER TIGHT AND STRUCTURALLY SOUND, IN ACCORDANCE WITH ANWA C206. WELL SCREENS TYPE 304 OR 316 STAINLESS STEEL, INSIDE DIAMETER, SPIRAL ROUND, WEDGE-WIRE TYPE. LENGTH SHALL BE ADEQUATE TO PROVIDE REQUIRED WELL CAPACITY.

AUXILIARY EQUIPMENT PROVIDE DISCHARGE PIPING OF PUMPED WATER DURING DEVELOPING AND TESTING OF WELL LOCATED A SUFFICIENT DISTANCE FROM WELL TO PREVENT FLOODING OF SITE AND FLOW BACK INTO THE WELL.

SANITARY SEAL PROVIDE AND INSTALL A FULLY ENCLOSED PERMANENT, SANITARY SEAL, INCORPORATING A SEALED CONDUCTOR ENTRY POINT FOR THE WELL TO PREVENT CONTAMINATION.

WELL PUMP GOULDS 456555 5 HP SUBMERSIBLE PUMP WITH 200V MOTOR

WATER SUPPLY WELL SUBMITALS SUBMIT: -MANUFACTURER SUBMITTAL CUT SHEETS FOR ALL MATERIALS USED INCLUDING, BUT NOT LIMITED TO: WELL CASINGS, WELL SCREENS, WELL HEAD, FITLESS ADAPTOR, AND TYPE OF GROUT... -DRAININGS SHOWING WELL COMPONENTS, DETAILS, CROSS SECTION SHOWING THE RELATIVE SIZE, LOCATION, AND SPACING OF WELL COMPONENTS SUCH AS THE HOLE SIZE, OUTER CASING, WELL SCREEN, AIRLINE AND GAUGE, AND GROUT... -CERTIFICATES OF COMPLIANCE FOR CASING, CEMENT, DRILLING MUD, SCREENS, AND GRAVEL... -FILE REPORTS FOR PUMP TEST, WATER ANALYSIS AS REQUIRED FOR ADEC NON-TRANSIENT NON-COMMUNITY PUBLIC WATER SYSTEM, PLUMBNESS AND ALIGNMENT TEST... -TWO COULFORM SAMPLE TEST RESULTS AFTER WELL DISINFECTION... -O&M MANUAL, INCLUDING AS-BUILT DRAWINGS, CUT SHEETS, ETC.

DISINFECTION DISINFECT WELL PER ANWA G654. AFTER COMPLETING INSTALLATION OF THE PERMANENT PUMP ASSEMBLY, DISINFECT THE WELL BY ADDING CHLORINE OR HYPOCHLORITE IN SUFFICIENT QUANTITY SO THAT A CONCENTRATION OF AT LEAST 50 PPM OF CHLORINE IS OBTAINED IN ALL PARTS OF THE WELL. CHLORINE SOLUTION SHALL BE PREPARED AND INTRODUCED INTO THE WELL IN AN APPROVED MANNER AND SHALL REMAIN IN THE WELL FOR A PERIOD OF TWELVE (12) AND 24 HOURS. AFTER CHLORINE CONTACT PERIOD, WELL SHALL BE PUMPED UNTIL RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 1 PPM. WELL SHALL BE PUMPED TO WASTE AT LEAST TWICE WITH A FLOW RATE LESS THAN 1 GPM. CHLORINE RESIDUAL, AFTER WHICH TWO SAMPLES SHALL BE TAKEN NOT LESS THAN 30 MINUTES APART AND TESTED FOR THE PRESENCE OF COLIFORM BACTERIA. SUBMIT WATER SAMPLES TO ADECS LABORATORY FOR TESTING OF THE SAMPLES DO NOT MEET PUBLIC HEALTH REQUIREMENTS, DISINFECT AGAIN AND RE-SAMPLE UNTIL SATISFACTORY RESULTS ARE OBTAINED.

WATER SYSTEM TESTING AND INSPECTION

ALL WATER SYSTEM COMPONENTS SHALL BE FLUSHED, PRESSURE TESTED, AND DISINPECTED IN ACCORDANCE WITH THE LATEST REVISIONS OF ANWA G901 AND G654 STANDARDS, AND THE PLASTIC PIPE INSTITUTE (PPI) POLYETHYLENE PIPING SYSTEMS FIELD MANUAL FOR MUNICIPAL WATER APPLICATIONS.

THE OWNER SHALL EXERCISE THE POWER OF INSPECTION IN CONJUNCTION WITH THE CONNECTION OF THE SERVICE LINE AT THE LOCATION OF THE WATER METER. CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE FOR INSPECTIONS PRIOR TO BACKFILLING ANY WATER SYSTEM COMPONENTS.

THE OWNER'S REPRESENTATIVE SHALL EXAMINE THE PIPING LENGTHS, METHODS USED TO CONNECT THE LENGTHS, AND SHOWN INSULATION AND SHIELDING ANY JOINTS, VALVES, COUPLINGS AND UNIONS PRIOR TO PROVIDING SERVICE TO THE BUILDING.

THE OWNER'S REPRESENTATIVE SHALL INSPECT THE PIPE INSULATION PRIOR TO BACKFILLING. THEY SHALL ALSO INSPECT THE SERVICE PIPING INDORS SUCH AS THE FLOOR, CHASE, VALVE/BACKFLOW PREVENTER PRIOR TO INSTALLATION OF THE METER. THIS INSPECTION SHALL COVER ALL WATER SYSTEM COMPONENTS.

WASTEWATER SYSTEM MATERIALS

CONSTRUCTION, MATERIALS, AND TESTING FOR SEWER SERVICES SHALL CONFORM TO ADEC REGULATIONS 18 AAC 72 AND THE ADEC INSPECT WASTEWATER SYSTEM INSTALLATION MANUAL. COORDINATE WITH THE OWNER TO ARRANGE THE SEWER SERVICE CONNECTIONS AND THEIR SUPPLIED MATERIALS. PROVIDE THE FOLLOWING AS REQUIRED AND ALL OTHER MATERIALS REQUIRED FOR A COMPLETE JOB.

SANITARY SEWER CLEANOUT DUCTILE IRON PIPE ANWA C151, THICKNESS CLASS 51 OR 52, CEMENT MORTAR LINED, PUSH ON TYTON JOINT C151E. PIPE CLASS L1ING SHALL CONFORM TO ANWA C104.

DUCTILE IRON FITTINGS ANWA C153. GASKETS, LUBRICANT FOR PUSH ON MECH. JOINTS ANWA C111. NO-HUB PIPE CONNECTORS ASTM C1540.

SCHEDULE 40 ABS PIPE ASTM F628. SDR35 PVC PIPE ASTM D3034. SCH40 PVC PRESSURE PIPE ASTM 2865, ASTM D1785.

MECHANICAL WATERMIGHT COUPLINGS FERMOX BRAND, WESSON BRAND, OR APPROVED ALTERNATIVE.

FINE GRADED SEWER ROCK SEWER ROCK SHALL MEET THE FOLLOWING GRADATION:

Table with 2 columns: SIZE and PERCENT PASSING. Rows for 1-1/2", 3/4", 1/2", No. 20.

SAND LINER FILTER MATERIAL THE SAND MAY NOT HAVE MORE THAN 45% (OF THE TOTAL) PASSING ANY ONE SIEVE AND RETAINED ON THE NEXT CONSECUTIVE SIEVE OF THOSE SHOWN BELOW AND SHALL MEET THE FOLLOWING GRADATION:

Table with 2 columns: SIZE and PERCENT PASSING. Rows for No. 10, No. 20, No. 60, No. 200.

WASTEWATER SUBMITALS SUBMIT: -MANUFACTURER SUBMITTAL CUT SHEETS FOR ALL MATERIALS... -GRADATIONS TESTING AND SUPPLIER FOR ALL SOILS MATERIALS... -CONTRACTOR TO PROVIDE 48 HOURS NOTICE FOR SEPTIC INSPECTION. INSPECTION SHALL INCLUDE DRAIN FIELD AND SEPTIC TANK PRIOR TO BACKFILLING.

CURBS, GUTTERS, SIDEWALKS - CONCRETE MATERIALS

PORTLAND CEMENT CONCRETE SHALL BE: 1. OBTAINED FROM AN APPROVED SOURCE... 2. MINIMUM COMPRESSIVE STRENGTH (FC) OF 3500 PSI AT 28 DAYS... 3. MINIMUM OF (6) BAGS OF PORTLAND CEMENT PER YARD... 4. MAXIMUM WATER CONTENT RATION OF 5.75 GAL/SACK... 5. SLUMP RANGE OF 2-4 INCHES... 6. AIR-ENTRANCEMENT RANGE OF 4-7%... 7. COARSE AGGREGATE NO. 67 (ASHTO GRADATION)...

REINFORCEMENT UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO IRC CHAPTER 19. REINFORCING BARS SHALL BE GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED WITH 16 DOUBLE ANNEALED IRON WIRE. REINFORCING IN FOOTINGS SHALL BE SUPPORTED ON WELL CURED CONCRETE BLOCKING OR APPROVED METAL CHAIRS. REINFORCING BARS NO. 6 AND SMALLER SHALL BE SPLICED BY A LAP AT LEAST (4x) BAR DIAMETERS. REINFORCING BARS NO. 7 OR LARGER SHALL BE SPLICED BY A LAP OF AT LEAST (5x) BAR DIAMETERS... EXPANSION JOINT SEALER PREMIXED JOINT FILLER FOR USE IN EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-1751 (ASHTO M-213).

MINERAL CONCRETE COLORANT COLOR ADDITIVES SHALL CONTAIN PURE, CONCENTRATED MINERAL PIGMENTS SPECIALLY PROCESSED FOR MIXING INTO CONCRETE AND COMPLYING WITH ASTM C978. BLACK IRON OXIDE BASED COLOR, DARKS GRAPHITE #860, CARBON BLACK COLORS NOT ACCEPTABLE.

REINFORCEMENT UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO IRC CHAPTER 19. REINFORCING BARS SHALL BE GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED WITH 16 DOUBLE ANNEALED IRON WIRE. REINFORCING IN FOOTINGS SHALL BE SUPPORTED ON WELL CURED CONCRETE BLOCKING OR APPROVED METAL CHAIRS. REINFORCING BARS NO. 6 AND SMALLER SHALL BE SPLICED BY A LAP AT LEAST (4x) BAR DIAMETERS. REINFORCING BARS NO. 7 OR LARGER SHALL BE SPLICED BY A LAP OF AT LEAST (5x) BAR DIAMETERS... EXPANSION JOINT SEALER PREMIXED JOINT FILLER FOR USE IN EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-1751 (ASHTO M-213).

EXPANSION JOINT SEALER AFTER THE CONCRETE HAS SET, THE EXPANSION JOINTS SHALL BE FILLED FLUSH TO THE FINISH CONCRETE SURFACE WITH AN APPROVED POLYURETHANE SEALANT APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. BEFORE SEALING, THE JOINT SHALL BE CLEARED OF ALL DIRT, GRAVEL, CONCRETE MORTAR, AND OTHER EXTRANEOUS MATERIAL. SEALING SHALL BE DONE IN A NEAT WORKMANLIKE MANNER.

CONCRETE INSTALLATION

MIXING, SELECTION OF MATERIALS, AND PLACING OF ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE IBC, CHAPTER 19.

CONTROL JOINTS HAND TOoled OR SAWCUT 3/4" DEEP AND SHALL OCCUR AT DISTANCES EQUAL TO WIDE OF SIDEWALKS, AND AT 10' INTERVALS IN CURB & GUTTER.

EXPANSION/CONTRACTION JOINTS SAWCUT JOINT OR CAST-IN-DIFFERENT POUR JOINTS, EVERY 20' OR LESS IN BOTH DIRECTIONS IN ALL SLABS AND CURBS.

FINISHING DO NOT HARD TROWEL OR OVER-WORK AIR-ENTRAINED SLABS. BROOM FINISH. BRUSH ACROSS PATH OF MOVEMENT ON SIDEWALKS AND SLABS. BRUSH WITH FLOWLINE IN CURBS.

CURING AND PROTECTION CURING COMPOUNDS CONFORMING TO ASTM C-309 SHALL BE APPLIED TO ALL EXPOSED SURFACES IMMEDIATELY AFTER FINISHING AND MAINTAINED FOR A PERIOD OF SEVEN (7) DAYS. NO UNSEED OIL IS ALLOWED. TRANSPARENT CURING COMPOUNDS SHALL CONTAIN A COLOR DYE OF SUFFICIENT STRENGTH TO RENDER THE FILM DISTINCTLY VISIBLE ON THE CONCRETE FOR A MINIMUM PERIOD OF FOUR (4) HOURS AFTER APPLICATION.

IF AT ANY TIME DURING THE CURING PERIOD ANY OF THE FORMS ARE REMOVED, A COAT OF CURING COMPOUND SHALL BE APPLIED IN SUFFICIENT QUANTITY TO OBSCURE THE NATURAL OF THE CONCRETE.

THE CONTRACTOR SHALL HAVE READILY AVAILABLE SUFFICIENT PROTECTIVE COVERING, SUCH AS WATERPROOF PAPER OR PLASTIC MEMBRANE, TO COVER THE POUR OF AN ENTIRE DAY IN EVENT OF RAIN OR OTHER UNSUITABLE WEATHER.

CONCRETE SHALL BE PROTECTED AGAINST DAMAGE OR DEFACEMENT OF ANY KIND UNTIL IT HAS BEEN ACCEPTED BY THE OWNER.

ON-SITE SAMPLING AND TESTING CONCRETE SAMPLES SHALL BE TAKEN FOR CONCRETE CYLINDERS IN ACCORDANCE WITH ASHTO RFD 401. SAMPLES SHALL NOT BE TAKEN AT THE BEGINNING OR END OF THE DISCHARGE, MAKING AND CURING THE SPECIMENS SHALL BE DONE IN ACCORDANCE WITH ASHTO 1-23.

AIR-ENTRANCEMENT AND SLUMP TESTS SHALL BE TAKEN IN ACCORDANCE WITH ASHTO T-119. SHOULD THE ANALYSIS OF ANY TEST CYLINDER NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS, ALL CONCRETE PLACED BY THAT BATCH REPRESENTED BY THE CYLINDER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

TEST CONCRETE CYLINDER AT ONE WEEK AND REPORT RESULTS TO PROJECT MANAGER. IF NEEDED, TEST AN ADDITIONAL CYLINDER TO SHOW ADEQUATE STRENGTH AT 28 DAYS.

SUBMITTALS SUBMIT MANUFACTURERS INFORMATION ON ALL MATERIALS AND APPLICATION METHODS.

HOT MIX ASPHALT PAVEMENT

ASPHALT AGGREGATE AND GRADING TYPE II, CLASS A ASPHALT PAVEMENT PER ADOT&P SSC 703-2.04 OR APPROVED ALTERNATIVE.

SUBMITTALS SUPPLIER, MIX DESIGN, AND INSTALLER QUALIFICATIONS. INSTALLATION ALL ASPHALT PAVEMENT AND CONCRETE JOINTS WITH EXISTING ASPHALT PAVEMENT SHALL BE SAWCUT AND AT LEAST 2 FEET OF OLD ASPHALT REMOVED. REPLACE THE 2 FEET AREA WITH NEW ASPHALT PAVEMENT AND COMPACT. INSTALL PER SSC SECTION 401. FINISHED ASPHALT PAVEMENT SURFACE MUST BE FREE OF PONDS OR "BIRDBATHS". FLUSH SURFACE WITH WATER TO TEST FOR PONDING. PONDING AREAS WILL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.

TESTING PROVIDE 6-10 BORED SAMPLES TO TEST FOR THICKNESS AND MIX DESIGN. PROVIDE 2 INCHES OF ACC WITH TOLERANCE OF MINUS 3/8". AVERAGE THICKNESS OVER 26" IN LIGHT DUTY AREAS AND 36" IN HEAVY DUTY AREAS WILL NOT BE PAID ADDITIONAL THICKNESS UNDER 1 1/2" IN LIGHT DUTY AREAS AND 24" IN HEAVY DUTY AREA. NOT ACCEPTABLE AND MUST BE REMOVED AND REPLACED AT NO COST TO OWNER. FILL TEST HOLES AFTER SAMPLING.

MISC. MATERIAL SPECIFICATIONS

PUMP ISLAND FORMS SPECIFICATIONS PER OTHERS.

SIGNS SIGNS- SHEET ALUMINUM, SECT 730-2.01. REFLECTIVE SURFACE, 730-2.03. POSTS-2" PERFORATED STEEL POST; SECT. SIGN BOLTS-GALV. A307 BOLTS W/MATCHING GALV. WASHERS AND NUTS.

PAVEMENT MARKING PAINT SECT 708-2.03. FSS-TT-P-19(0)-1 EXTERIOR ACRYLIC EMULSION LATEX PAINT, COLOR WHITE.

PAINT FOR STEEL PRIME COAT-SINGLE COMPONENT, MOISTURE CURE, POLYURETHANE WITH ZINC DUST PIGMENT AND 78% ZINC POWDER BY WEIGHT. TOP COAT- SINGLE COMPONENT, MOISTURE CURE, ALIPHATIC POLYURETHANE.

FAST-IRON MOUNTMENT GASES ADOT&P STANDARD DRAWING M-18.01, 6" MINIMUM INSIDE DIAMETER.

ACCESSORIES INSTALLATION: SUBMITTALS CATALOG CUTS OF ALL MATERIALS... -COLOR SAMPLES FOR ALL COLORS... -SIGN SIZE, COLOR, PRINT LAYOUT.

PAVEMENT MARKINGS INSTALLATION MEET ADOT&P SSC SECT. 870-3.01 PART 1. PAINT, EXCEPT MAY BE PAINTED BY HAND OR NOT TO SCALE. THICKNESS MATCH ADOT&P REQUIREMENTS AND NO PARKING LANES. SHALL BE WHITE FOR LANE STRIPING AND BLUE FOR HANDICAP AND NO PARKING LANES.

COMMON ABBREVIATIONS

Table with 3 columns: AC, AD, AVG, BLDG, CO, CL, CMP, CNTR, CONC, CONTROL POINT, DIA, DWG, E, EAST, ELECTRIC, EG, ELEVATION, EP. Rows for ASPHALT CONCRETE, AMERICAN DISABILITIES ACT, AVERAGE, BUILDING, CLEAN-OUT, CENTER LINE, CORRUGATED METAL PIPE, CENTER, CONCRETE, CONTROL POINT, DIAMETER, DRAWING, EAST, ELECTRIC, ELEVATION, EDGE OF PAVEMENT, ESM, FURNISH AND INSTALL, FINISH FLOOR, FINISH GRADE, FOOT, FEET, INVERT, LINEAR FEET, MAXIMUM, MINIMUM, MONUMENT, NOT FROST SUSCEPTIBLE, POINT OF CENTER, OVERHEAD ELECTRIC, POINT OF TANGENT, PAVEMENT, RADIUS, RECORD, REQUIRED, RIGHT-OF-WAY, SOUTH, SIDEWALK, SECTION, SHOULDER, SANITARY SEWER, SWALE, TEMPORARY BENCHMARK, TEST HOLE, TOP OF PAVEMENT, TYPICAL, WATER-WEAR, RECORD.



155 BROADWAY STREET, SUITE 200, ANCHORAGE, ALASKA 99501. (907) 283-3663. LICENSE NO. 0002173.

CONTRACT NOTICE: This drawing is the property of the above named Professional and shall be loaned, copied, reproduced or otherwise used without the express written permission from the Professional Engineer.

3/17/23 PSM/BS/SJ

IF AT ANY TIME DURING THE CURING PERIOD ANY OF THE FORMS ARE REMOVED, A COAT OF CURING COMPOUND SHALL BE APPLIED IN SUFFICIENT QUANTITY TO OBSCURE THE NATURAL OF THE CONCRETE.

THE CONTRACTOR SHALL HAVE READILY AVAILABLE SUFFICIENT PROTECTIVE COVERING, SUCH AS WATERPROOF PAPER OR PLASTIC MEMBRANE, TO COVER THE POUR OF AN ENTIRE DAY IN EVENT OF RAIN OR OTHER UNSUITABLE WEATHER.

CONCRETE SHALL BE PROTECTED AGAINST DAMAGE OR DEFACEMENT OF ANY KIND UNTIL IT HAS BEEN ACCEPTED BY THE OWNER.

ON-SITE SAMPLING AND TESTING CONCRETE SAMPLES SHALL BE TAKEN FOR CONCRETE CYLINDERS IN ACCORDANCE WITH ASHTO RFD 401. SAMPLES SHALL NOT BE TAKEN AT THE BEGINNING OR END OF THE DISCHARGE, MAKING AND CURING THE SPECIMENS SHALL BE DONE IN ACCORDANCE WITH ASHTO 1-23.

AIR-ENTRANCEMENT AND SLUMP TESTS SHALL BE TAKEN IN ACCORDANCE WITH ASHTO T-119. SHOULD THE ANALYSIS OF ANY TEST CYLINDER NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS, ALL CONCRETE PLACED BY THAT BATCH REPRESENTED BY THE CYLINDER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

TEST CONCRETE CYLINDER AT ONE WEEK AND REPORT RESULTS TO PROJECT MANAGER. IF NEEDED, TEST AN ADDITIONAL CYLINDER TO SHOW ADEQUATE STRENGTH AT 28 DAYS.

SUBMITTALS SUBMIT MANUFACTURERS INFORMATION ON ALL MATERIALS AND APPLICATION METHODS.

HOT MIX ASPHALT PAVEMENT

ASPHALT AGGREGATE AND GRADING TYPE II, CLASS A ASPHALT PAVEMENT PER ADOT&P SSC 703-2.04 OR APPROVED ALTERNATIVE.

SUBMITTALS SUPPLIER, MIX DESIGN, AND INSTALLER QUALIFICATIONS.

INSTALLATION ALL ASPHALT PAVEMENT AND CONCRETE JOINTS WITH EXISTING ASPHALT PAVEMENT SHALL BE SAWCUT AND AT LEAST 2 FEET OF OLD ASPHALT REMOVED. REPLACE THE 2 FEET AREA WITH NEW ASPHALT PAVEMENT AND COMPACT. INSTALL PER SSC SECTION 401.

FINISHED ASPHALT PAVEMENT SURFACE MUST BE FREE OF PONDS OR "BIRDBATHS". FLUSH SURFACE WITH WATER TO TEST FOR PONDING. PONDING AREAS WILL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.

TESTING PROVIDE 6-10 BORED SAMPLES TO TEST FOR THICKNESS AND MIX DESIGN. PROVIDE 2 INCHES OF ACC WITH TOLERANCE OF MINUS 3/8". AVERAGE THICKNESS OVER 26" IN LIGHT DUTY AREAS AND 36" IN HEAVY DUTY AREAS WILL NOT BE PAID ADDITIONAL THICKNESS UNDER 1 1/2" IN LIGHT DUTY AREAS AND 24" IN HEAVY DUTY AREA. NOT ACCEPTABLE AND MUST BE REMOVED AND REPLACED AT NO COST TO OWNER. FILL TEST HOLES AFTER SAMPLING.

MISC. MATERIAL SPECIFICATIONS

PUMP ISLAND FORMS SPECIFICATIONS PER OTHERS.

SIGNS SIGNS- SHEET ALUMINUM, SECT 730-2.01. REFLECTIVE SURFACE, 730-2.03. POSTS-2" PERFORATED STEEL POST; SECT. SIGN BOLTS-GALV. A307 BOLTS W/MATCHING GALV. WASHERS AND NUTS.

PAVEMENT MARKING PAINT SECT 708-2.03. FSS-TT-P-19(0)-1 EXTERIOR ACRYLIC EMULSION LATEX PAINT, COLOR WHITE.

PAINT FOR STEEL PRIME COAT-SINGLE COMPONENT, MOISTURE CURE, POLYURETHANE WITH ZINC DUST PIGMENT AND 78% ZINC POWDER BY WEIGHT. TOP COAT- SINGLE COMPONENT, MOISTURE CURE, ALIPHATIC POLYURETHANE.

FAST-IRON MOUNTMENT GASES ADOT&P STANDARD DRAWING M-18.01, 6" MINIMUM INSIDE DIAMETER.

ACCESSORIES INSTALLATION

SUBMITTALS CATALOG CUTS OF ALL MATERIALS... -COLOR SAMPLES FOR ALL COLORS... -SIGN SIZE, COLOR, PRINT LAYOUT.

PAVEMENT MARKINGS INSTALLATION MEET ADOT&P SSC SECT. 870-3.01 PART 1. PAINT, EXCEPT MAY BE PAINTED BY HAND OR NOT TO SCALE. THICKNESS MATCH ADOT&P REQUIREMENTS AND NO PARKING LANES. SHALL BE WHITE FOR LANE STRIPING AND BLUE FOR HANDICAP AND NO PARKING LANES.

GENERAL NOTES

SHEET NUMBER 014764.40

SHEET TITLE

GENERAL NOTES

SHEET NUMBER 014764.40

SHEET TITLE

GENERAL NOTES

SHEET NUMBER 014764.40

SHEET TITLE

GENERAL NOTES

SHEET NUMBER 014764.40

SHEET TITLE

GENERAL NOTES

SHEET NUMBER 014764.40

SHEET TITLE

DEMOLITION PLAN NOTES:

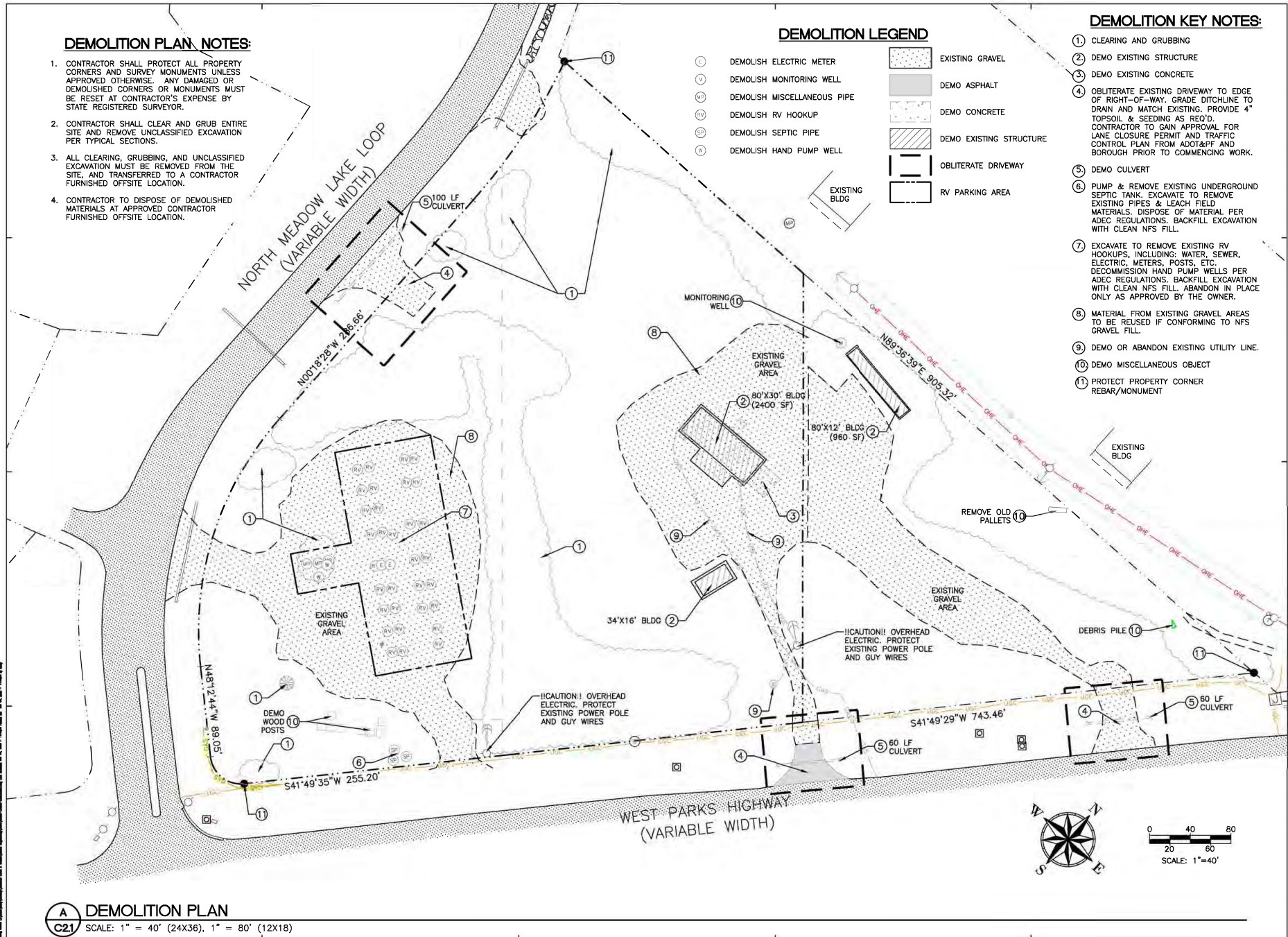
1. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS AND SURVEY MONUMENTS UNLESS APPROVED OTHERWISE. ANY DAMAGED OR DEMOLISHED CORNERS OR MONUMENTS MUST BE RESET AT CONTRACTOR'S EXPENSE BY STATE REGISTERED SURVEYOR.
2. CONTRACTOR SHALL CLEAR AND GRUB ENTIRE SITE AND REMOVE UNCLASSIFIED EXCAVATION PER TYPICAL SECTIONS.
3. ALL CLEARING, GRUBBING, AND UNCLASSIFIED EXCAVATION MUST BE REMOVED FROM THE SITE, AND TRANSFERRED TO A CONTRACTOR FURNISHED OFFSITE LOCATION.
4. CONTRACTOR TO DISPOSE OF DEMOLISHED MATERIALS AT APPROVED CONTRACTOR FURNISHED OFFSITE LOCATION.

DEMOLITION LEGEND

- | | | | |
|---|-----------------------------|--|-------------------------|
| ⊙ | DEMOLISH ELECTRIC METER | | EXISTING GRAVEL |
| ⊙ | DEMOLISH MONITORING WELL | | DEMO ASPHALT |
| ⊙ | DEMOLISH MISCELLANEOUS PIPE | | DEMO CONCRETE |
| ⊙ | DEMOLISH RV HOOKUP | | DEMO EXISTING STRUCTURE |
| ⊙ | DEMOLISH SEPTIC PIPE | | OBLITERATE DRIVEWAY |
| ⊙ | DEMOLISH SEPTIC PIPE | | RV PARKING AREA |
| ⊙ | DEMOLISH HAND PUMP WELL | | |

DEMOLITION KEY NOTES:

1. CLEARING AND GRUBBING
2. DEMO EXISTING STRUCTURE
3. DEMO EXISTING CONCRETE
4. OBLITERATE EXISTING DRIVEWAY TO EDGE OF RIGHT-OF-WAY. GRADE DITCHLINE TO DRAIN AND MATCH EXISTING. PROVIDE 4" TOPSOIL & SEEDING AS REQ'D. CONTRACTOR TO GAIN APPROVAL FOR LANE CLOSURE PERMIT AND TRAFFIC CONTROL PLAN FROM ADOT&PF AND BOROUGH PRIOR TO COMMENCING WORK.
5. DEMO CULVERT
6. PUMP & REMOVE EXISTING UNDERGROUND SEPTIC TANK. EXCAVATE TO REMOVE EXISTING PIPES & LEACH FIELD MATERIALS. DISPOSE OF MATERIAL PER ADEC REGULATIONS. BACKFILL EXCAVATION WITH CLEAN NFS FILL.
7. EXCAVATE TO REMOVE EXISTING RV HOOKUPS, INCLUDING: WATER, SEWER, ELECTRIC, METERS, POSTS, ETC. DECOMMISSION HAND PUMP WELLS PER ADEC REGULATIONS. BACKFILL EXCAVATION WITH CLEAN NFS FILL. ABANDON IN PLACE ONLY AS APPROVED BY THE OWNER.
8. MATERIAL FROM EXISTING GRAVEL AREAS TO BE REUSED IF CONFORMING TO NFS GRAVEL FILL.
9. DEMO OR ABANDON EXISTING UTILITY LINE.
10. DEMO MISCELLANEOUS OBJECT
11. PROTECT PROPERTY CORNER REBAR/MONUMENT



NELSON ENGINEERING
 155 BROADWAY STREET
 KENAI, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 48522-02

COPYRIGHT NOTICE
 This drawing is the property of the above named Professional and shall be the joint project and the named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PRM/BD/SJ

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
 MJD
 PROJECT MANAGER
 MJD
 QUALITY CONTROL
 MJD/MJD
 DRAWN BY
 MJD

PROJECT NAME
CIRCLE K STORES INC. STORE #650 WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO

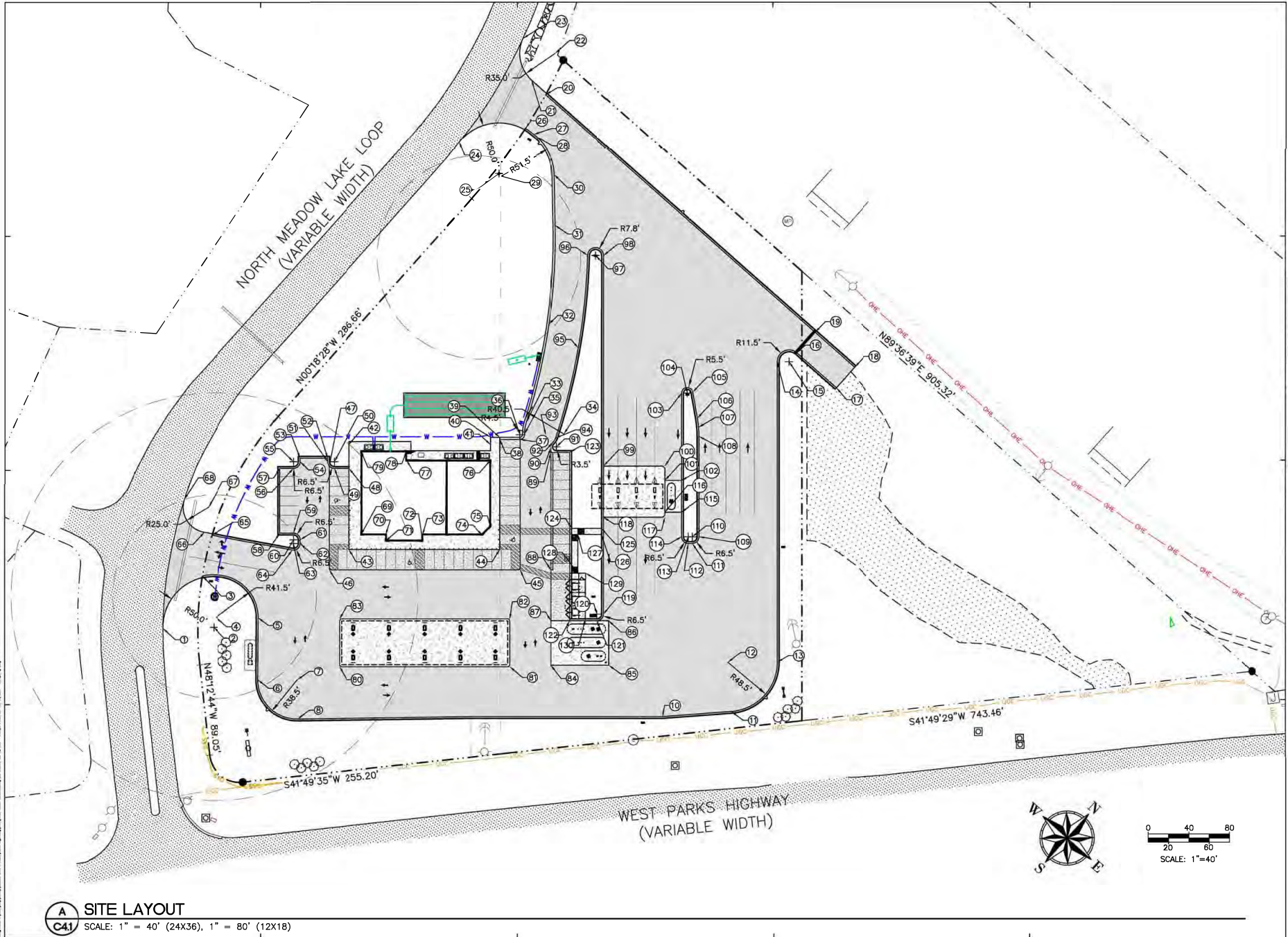
Holiday

PROJECT NUMBER
 014764.40

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C-2.1

A DEMOLITION PLAN
C21 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



NELSON ENGINEERING
 155 BROADWAY STREET
 KENAI, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 4852-028

COPYRIGHT NOTICE
 This drawing is the property of the above referenced Professional and shall be the joint property of the named herein, and shall not be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
 MJD
 PROJECT MANAGER
 MJD
 QUALITY CONTROL
 MJD/AMJ
 DRAWN BY
 MJD

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO

Holiday

PROJECT NUMBER
 014764.40

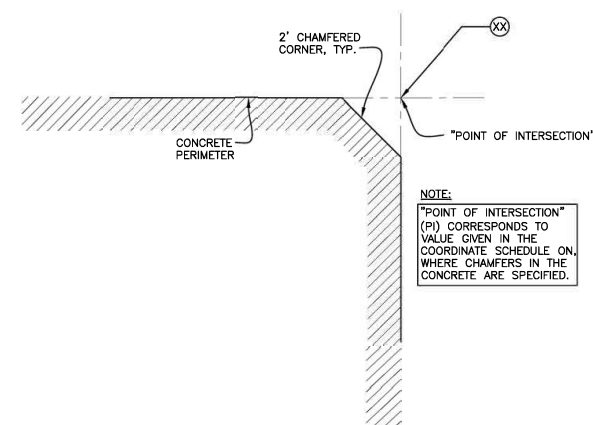
SHEET TITLE
SITE LAYOUT

SHEET NUMBER
C-4.1

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
1	PT	2769389.77	1702054.62
2	CENTER OF RADIUS	2769423.91	1702091.16
3	PT	2769453.69	1702049.06
4	CENTER OF RADIUS	2769432.74	1702086.43
5	PT	2769460.26	1702117.49
6	PT	2769414.72	1702157.83
7	CENTER OF RADIUS	2769440.25	1702186.66
8	PT	2769411.98	1702212.79
9	PT	2769527.42	1702337.65
10	PT	2769653.65	1702478.25
11	PT	2769702.74	1702525.43
12	CENTER OF RADIUS	2769736.33	1702490.48
13	PT	2769768.75	1702526.55
14	PT	2769988.15	1702329.59
15	CENTER OF RADIUS	2769995.63	1702338.14
16	PT	2770007.33	1702338.05
17	PT	2770007.73	1702389.73
18	PT	2770034.73	1702389.52
19	PT	2770034.33	1702337.84
20	PT	2770031.58	1701984.46
21	PT	2770032.92	1701964.72
22	CENTER OF RADIUS	2770067.92	1701964.44
23	PT	2770057.46	1701931.04
24	PT	2769939.88	1701952.36
25	CENTER OF RADIUS	2769943.21	1702002.25
26	PT	2769993.64	1701991.77
27	PT	2769994.71	1702001.84
28	PT	2769994.74	1702005.57
29	CENTER OF RADIUS	2769943.24	1702005.97
30	PT	2769978.39	1702043.61
31	PT	2769941.93	1702077.65
32	RADIUS MID-POINT	2769865.48	1702138.17
33	PT	2769779.35	1702185.87
34	CENTER OF RADIUS	2769795.22	1702220.94
35	PT	2769769.56	1702192.24
36	CENTER OF RADIUS	2769765.95	1702189.44
37	PT	2769762.60	1702192.44
38	PT	2769749.39	1702177.73
39	EDGE OF CONCRETE	2769750.88	1702176.39
40	EDGE OF CONCRETE	2769744.87	1702169.70
41	EDGE OF CONCRETE	2769739.53	1702174.49
42	EDGE OF CONCRETE	2769646.45	1702070.80
43	EDGE OF CONCRETE	2769569.93	1702139.50
44	EDGE OF CONCRETE	2769669.02	1702249.88
45	PI CONCRETE	2769667.50	1702278.12
46	PI CONCRETE	2769541.69	1702137.98
47	EDGE OF CONCRETE	2769617.47	1702069.94
48	PT	2769629.09	1702086.39
49	PT	2769619.07	1702075.23
50	CENTER OF RADIUS	2769623.90	1702070.89

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
51	PT	2769619.56	1702066.05
52	PT	2769622.17	1702063.71
53	PT	2769604.13	1702043.62
54	PT	2769601.53	1702045.96
55	CENTER OF RADIUS	2769597.18	1702041.12
56	PT	2769592.35	1702045.47
57	PT	2769583.33	1702035.42
58	PT	2769536.08	1702077.84
59	PT	2769545.09	1702087.89
60	CENTER OF RADIUS	2769540.26	1702092.23
61	PT	2769544.60	1702097.07
62	PT	2769541.88	1702099.51
63	CENTER OF RADIUS	2769537.54	1702094.67
64	PT	2769532.00	1702096.07
65	PT	2769489.84	1702029.40
66	PT	2769486.94	1702021.79
67	CENTER OF RADIUS	2769508.13	1702008.53
68	PT	2769497.91	1701985.71
69	BUILDING CORNER	2769588.27	1702138.72
70	BUILDING CORNER	2769604.77	1702156.60
71	BUILDING CORNER	2769599.71	1702160.70
72	BUILDING CORNER	2769624.21	1702187.98
73	BUILDING CORNER	2769628.82	1702183.39
74	BUILDING CORNER	2769668.29	1702227.86
75	BUILDING CORNER	2769679.89	1702228.48
76	BUILDING CORNER	2769728.59	1702184.75
77	BUILDING CORNER	2769672.68	1702122.97
78	BUILDING CORNER	2769679.84	1702116.98
79	BUILDING CORNER	2769649.78	1702083.49
80	PI CONCRETE	2769477.79	1702209.01
81	PI CONCRETE	2769590.02	1702334.02
82	PI CONCRETE	2769624.99	1702302.62
83	PI CONCRETE	2769512.76	1702177.61
84	EDGE OF CONCRETE	2769617.93	1702362.94
85	EDGE OF CONCRETE	2769655.85	1702405.18
86	EDGE OF CONCRETE	2769688.39	1702375.97
87	EDGE OF CONCRETE	2769650.47	1702333.73
88	EDGE OF CONCRETE	2769687.54	1702300.45
89	PT	2769773.25	1702223.50
90	PT	2769776.48	1702220.60
91	CENTER OF RADIUS	2769780.94	1702223.83
92	PT	2769781.58	1702218.36
93	CENTER OF RADIUS	2769782.75	1702208.43
94	PT	2769786.76	1702217.59
95	RADIUS MID-POINT	2769867.49	1702174.96
96	PT	2769941.21	1702121.11
97	CENTER OF RADIUS	2769946.31	1702126.97
98	PT	2769951.40	1702132.83
99	EDGE OF CONCRETE	2769797.63	1702270.85
100	PI CONCRETE	2769838.03	1702315.86

COORDINATE SCHEDULE			
POINT #	DESCRIPTION	NORTHING	EASTING
101	EDGE OF CONCRETE	2769827.63	1702325.19
102	EDGE OF CONCRETE	2769838.85	1702337.47
103	PT	2769902.43	1702280.21
104	CENTER OF RADIUS	2769906.11	1702284.31
105	PT	2769910.44	1702287.70
106	PT	2769894.31	1702308.28
107	RADIUS MID-POINT	2769888.64	1702315.01
108	PT	2769882.22	1702321.21
109	PT	2769808.97	1702386.97
110	CENTER OF RADIUS	2769804.52	1702382.23
111	PT	2769799.68	1702386.57
112	PT	2769797.01	1702383.60
113	CENTER OF RADIUS	2769801.84	1702379.25
114	PT	2769797.50	1702374.42
115	EDGE OF CONCRETE	2769815.55	1702358.21
116	EDGE OF CONCRETE	2769804.53	1702345.93
117	PI CONCRETE	2769800.62	1702349.26
118	EDGE OF CONCRETE	2769780.42	1702304.25
119	PT	2769689.71	1702367.71
120	CENTER OF RADIUS	2769685.37	1702362.87
121	PT	2769680.53	1702367.21
122	EDGE OF CONCRETE	2769662.63	1702347.49
123	EDGE OF CONCRETE	2769785.61	1702237.27
124	EDGE OF CONCRETE	2769731.51	1702288.52
125	EDGE OF CONCRETE	2769750.89	1702310.11
126	EDGE OF CONCRETE	2769746.43	1702314.12
127	EDGE OF CONCRETE	2769731.05	1702287.00
128	EDGE OF CONCRETE	2769702.78	1702322.38
129	EDGE OF CONCRETE	2769707.79	1702327.96
130	EDGE OF CONCRETE	2769674.67	1702357.69



A LAYOUT COORDINATE SCHEDULE
 C4.2 SCALE: NTS

B CHAMFERED CORNER COORDINATE
 C4.2 SCALE: NTS

NELSON ENGINEERING
 155 BIDAARKA STREET
 KENAI, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 4552-1724

COPYRIGHT NOTICE
 This drawing is the property of the above named Professional and shall be the joint property of the client. It shall not be used for any other project or site without the written consent of the Professional. The Professional shall not be held responsible for any errors or omissions on this drawing unless specifically noted.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL

Matthew D. Brown
 MATTHEW D. BROWN
 CIVIL ENGINEER
 LICENSE NO. 12523-1
 STATE OF ALASKA

PROFESSIONAL IN CHARGE
 MJD PROJECT MANAGER
 MZD QUALITY CONTROL
 MZD/MJD DRAWN BY
 MZD

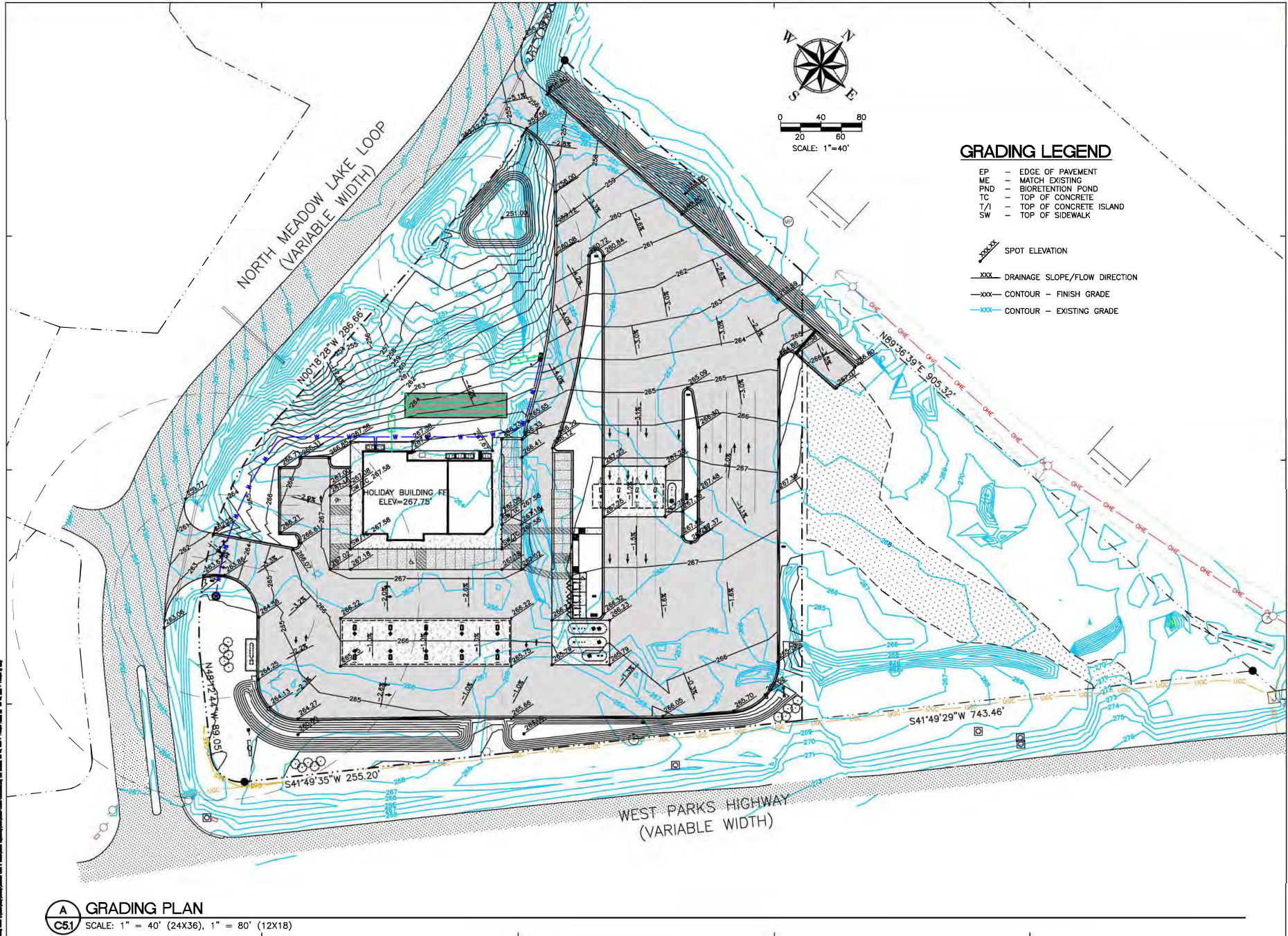
PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO

Holiday

PROJECT NUMBER
 014764.40

SHEET TITLE
SITE LAYOUT COORDINATE SCHEDULE

SHEET NUMBER
C-4.2



GRADING LEGEND

- EP — EDGE OF PAVEMENT
- ME — MATCH EXISTING
- PND — BIoretention POND
- TC — TOP OF CONCRETE
- T/I — TOP OF CONCRETE ISLAND
- SW — TOP OF SIDEWALK

- SPOT ELEVATION
- DRAINAGE SLOPE/FLOW DIRECTION
- CONTOUR - FINISH GRADE
- CONTOUR - EXISTING GRADE



COPYRIGHT NOTICE
This drawing is the property of the above referenced Professional and shall be the joint property of the client and the Professional. It shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the express written permission from the Professional.

3/1/23 PSM/BD/SJ



PROFESSIONAL IN CHARGE
MJD
PROJECT MANAGER
MJD
QUALITY CONTROL
MJD/MJD
DRAWN BY
MJD

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO

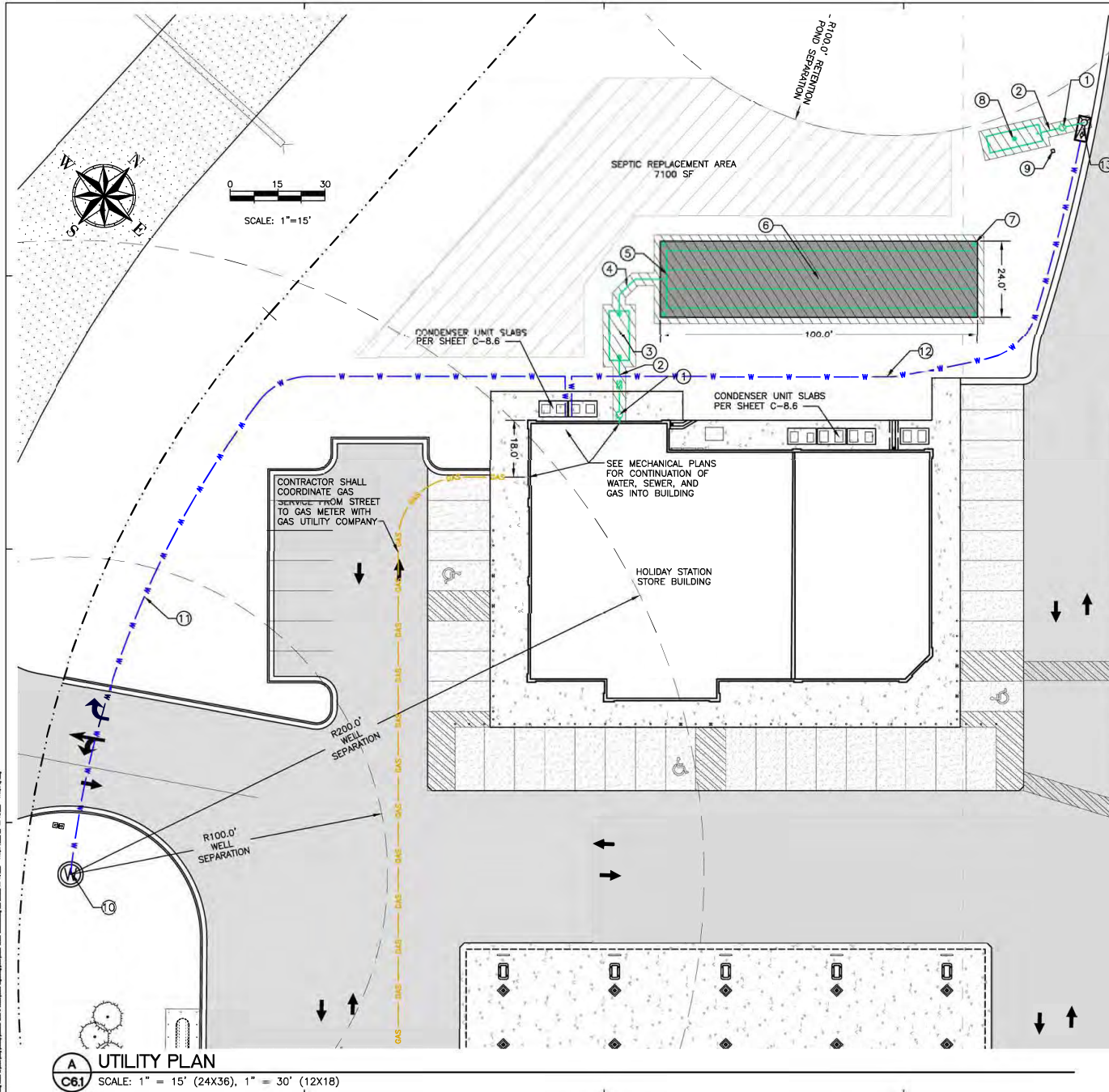


Holiday
PROJECT NUMBER
014764.40
SHEET TITLE

GRADING PLAN

SHEET NUMBER
C-5.1

A GRADING PLAN
SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



SEPTIC SYSTEM KEY NOTES:

1. 4" DIP CL51 SANITARY SEWER CLEANOUT. SEE MECHANICAL FOR TIE-IN ELEVATION.
2. 4" DIP CL51 @ MIN. 2.0% SLOPE. PROVIDE 4" WIDE X 4" THICK 'INSULFOAM 40' INSULATION BOARD OVER PIPE. MIN. 4'-FT BURY.
3. 3500-GALLON STEEL ADEC-APPROVED 2-COMPARTMENT S.T.E.P. SEPTIC TANK (ANCHORAGE TANK MODEL #AT3500S OR APPROVED ALTERNATIVE). PROVIDE 4" WIDE X 4" THICK 'INSULFOAM 40' INSULATION BOARD OVER TANK. EXTEND INSULATION BOARD MIN. 24" BEYOND OUTSIDE EDGE OF LEACH FIELD. MIN. BURY 4'-FT.
4. 4" PVC SDR35 @ MIN. 2.0% SLOPE FROM SEPTIC TANK TO HEADER. CONNECT TO HEADER WITH 4" PVC SDR35 TEE. PROVIDE 4" WIDE X 4" THICK 'INSULFOAM 40' INSULATION BOARD OVER PIPE. MIN. 4' BURY.
5. 4" PVC SDR35 HEADER PIPE. SET LEVEL. MIN. 4' BURY.
6. 24'-FT X 100'-FT (2400 SF AREA) BED TYPE LEACH FIELD. FURNISH & INSTALL FOUR (4) 96 LF 4" PERFORATED PVC SDR35 LATERALS. SET LATERALS LEVEL. WITH PERFORATIONS FACING DOWNWARD. EMBED PIPE WITHIN LEACH FIELD DRAIN ROCK AND PROVIDE MIN. 12" OF DRAIN ROCK BELOW BOTTOM OF PIPE. PROVIDE 24" SANDLINER BELOW DRAIN FIELD. PROVIDE 4" WIDE X 4" THICK 'INSULFOAM 40' INSULATION BOARD OVER ENTIRE LEACH FIELD. EXTEND INSULATION BOARD MIN. 24" BEYOND OUTSIDE EDGE OF LEACH FIELD. MIN. 4' BURY.
7. FOUR (4) 4" ABS SCH40 MONITORING TUBES AT 4 CORNERS OF LEACH FIELD, WITH PERFORATIONS WITHIN LEACH FIELD DRAIN ROCK.
8. 4000-GALLON STEEL ADEC-APPROVED STEEL HOLDING TANK (ANCHORAGE TANK MODEL #AT4000H OR APPROVED ALTERNATIVE). PROVIDE 4" WIDE X 4" THICK 'INSULFOAM 40' INSULATION BOARD OVER TANK. EXTEND INSULATION BOARD MIN. 24" BEYOND OUTSIDE EDGE OF TANK. MIN. BURY 4'-FT.
9. INSTALL VISUAL/AUDIO ALARM ON 4X4 PRESSURE TREATED WOOD POST NEXT TO HOLDING TANK.

WATER SYSTEM KEY NOTES:

10. 6" PUBLIC WATER SYSTEM WELL WITH GOULDS 45GS50 SUBMERSIBLE PUMP. ESTIMATED DEPTH = 125'-FT.
11. 2" HDPE SDR11 WATER SERVICE TO BUILDING. PROVIDE 4" THICK X 4" WIDE 'INSULFOAM 40' INSULATION BOARD. SEE MECHANICAL PLANS FOR CONTINUATION INTO BUILDING. MINIMUM 10' BURY.
12. 3/4" TYPE K COPPER WATER SERVICE PIPE FROM BUILDING TO RV DUMP WASHDOWN. INSTALL WATER WITH POSITIVE GRADE GRADE TO BUILDING (NO HUMPS OR DIPS) TO PREVENT AIR TRAPS. SEE MECHANICAL PLANS FOR CONTINUATION INTO BUILDING. MINIMUM 24" BURY.
13. RV DUMP STATION WITH NON-POTABLE WATER WASHDOWN PER DETAIL C/C8.3.

UTILITY PLAN NOTES

1. IF NOT DETAILED ON THESE DRAWINGS, ALL APPLICABLE CONSTRUCTION SHALL BE BUILT IN ACCORDANCE WITH ADEC 18 AAC 72 REGULATIONS AND/OR ADEC ONSITE WASTEWATER SYSTEM INSTALLATION MANUAL.
2. CONTRACTOR MUST PROVIDE MIN. 4'-FT OF COVER AND 4" THICK INSULATION BOARD (INSULFOAM 40) OVER ALL SANITARY SEWER PIPES, SEPTIC TANKS, AND LEACH FIELDS. EXTEND INSULATION 2'-FT BEYOND EDGES OF TANKS AND LEACH FIELD.
3. CONTRACTOR MUST PROVIDE TOPSOIL AND SEEDING ON ALL DISTURBED AREAS DURING CONSTRUCTION.
4. CONTRACTOR SHALL ADHERE TO ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS DURING EXCAVATION AND BACKFILL.
5. ALL FILL AND BACKFILL MATERIALS USED FOR CONSTRUCTION MUST BE CLEAN/UNFROZEN.
6. CONTRACTOR SHALL CONTACT ENGINEER 48-HOURS PRIOR TO INSTALLATION TO COORDINATE INSPECTION OF THE SEPTIC SYSTEM.
7. CONTRACTOR SHALL PROVIDE THE FOLLOWING PHOTOGRAPHS:
 - SEPTIC TANKS WITH INLET OR OUTLET EXPOSED AND GALLONAGE LABEL SHOWING
 - OPEN EXCAVATION OF ABSORPTION FIELDS AND LINE LEADING TO IT -FILTER FABRIC PULLED BACK TO REVEAL SCREENED GRAVEL AND PERFORATED PIPE IN ABSORPTION FIELD
 - FINISHED GRADE AND LANDSCAPING WITH STANDPIPES
 - SEWER LINE(S) INCLUDING DROP CONNECTIONS, CLEAN OUTS, BENDS, JUNCTIONS, ETC
 - LIFT STATION AND PUMP WITH AUDIO/VISUAL ALARM.



155 BODARKA STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 45327-2

COPYRIGHT NOTICE

This drawing is the property of the above named professional and shall be loaned for the project and the named herein, and cannot be reproduced in any manner without the express written permission from the Professional member.

3/1/23 PSM/BSJ

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

MZ
PROJECT MANAGER
MZ
QUALITY CONTROL
MZ/AM/D
DRAWN BY
MZ

PROJECT NAME

CIRCLE K STORES INC. STORE #650 WASILLA ALASKA

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



Holiday

PROJECT NUMBER
014764.40

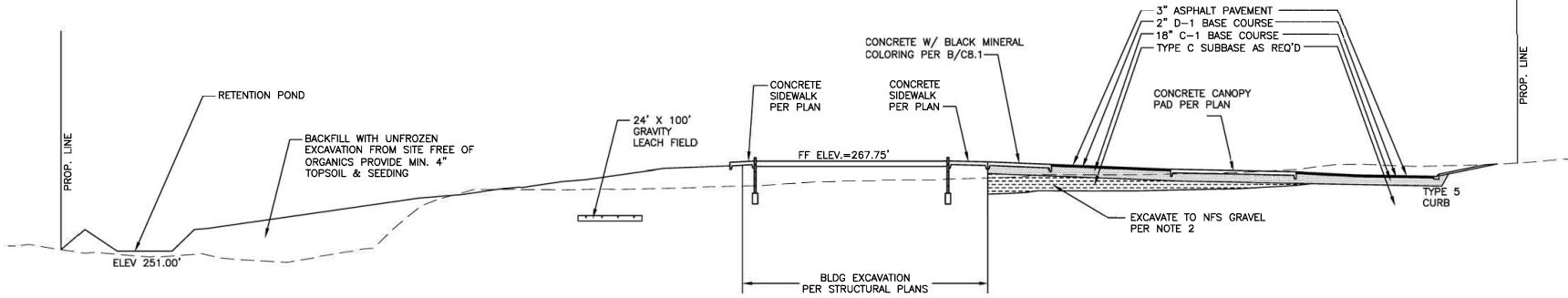
SHEET TITLE

UTILITY PLAN

SHEET NUMBER

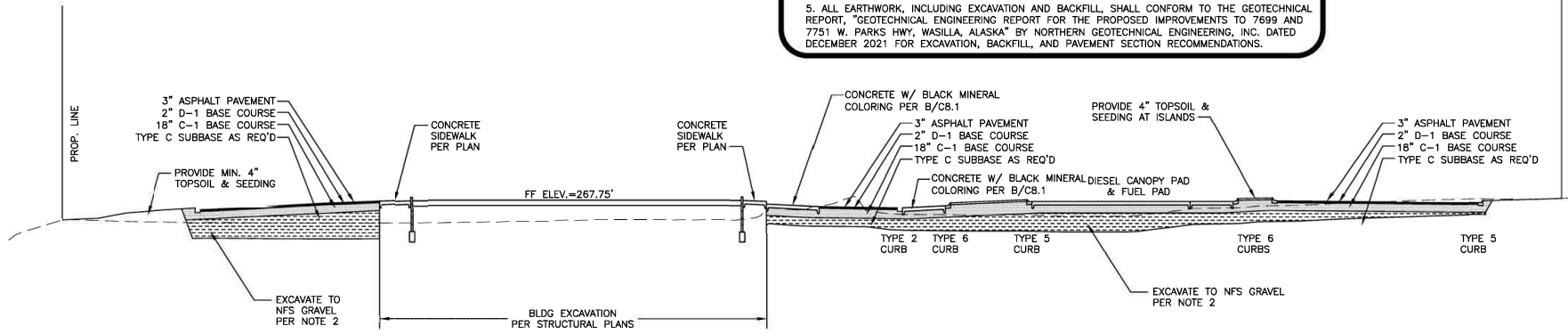
C-6.1

UTILITY PLAN
SCALE: 1" = 15' (24X36), 1" = 30' (12X18)



A TYPICAL SITE SECTION - NORTH TO SOUTH
C71 SCALE: 1" = 20' (24X36), 1" = 40' (12X18) [2X VERTICAL EXAGGERATION]

- SITE SECTION NOTES**
1. ALL FILLS UNDER BUILDING FOOTPRINT, DRIVEWAYS, AND PARKING LOTS SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY.
 2. GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NONCOMPLYING FILL, TOPSOIL, PERMAFROST, AND OTHER UNSUITABLE MATERIALS DOWN TO NATIVE NFS GRAVEL. SEE RECOMMENDED FLOATING PAVEMENT SECTION (C/CB.3) FOR EXCAVATION WITHIN HISTORIC FILL AREA AS DESCRIBED IN GEOTECHNICAL REPORT. SCARIFY TO PROVIDE BOND WITH NEW FILL.
 3. IN SITU NFS GRAVELS MAY BE USED IN LIEU OF TYPE C SUBBASE IN FILL AREAS OUTSIDE HISTORIC FILL AREA AS DESCRIBED IN GEOTECHNICAL REPORT. IN SITU MATERIAL CONFORMING TO TYPE C SUBBASE MAY BE USED IN LIEU OF TYPE C SUBBASE IN FLOATING PAVEMENT SECTIONS.
 4. SEE GRADING PLAN FOR SITE GRADING.
 5. ALL EARTHWORK, INCLUDING EXCAVATION AND BACKFILL, SHALL CONFORM TO THE GEOTECHNICAL REPORT, "GEOTECHNICAL ENGINEERING REPORT FOR THE PROPOSED IMPROVEMENTS TO 7699 AND 7751 W. PARKS HWY, WASILLA, ALASKA" BY NORTHERN GEOTECHNICAL ENGINEERING, INC. DATED DECEMBER 2021 FOR EXCAVATION, BACKFILL, AND PAVEMENT SECTION RECOMMENDATIONS.



B TYPICAL SITE SECTION - WEST TO EAST
C71 SCALE: 1" = 20' (24X36), 1" = 40' (12X18) [2X VERTICAL EXAGGERATION]



COPYRIGHT NOTICE
 This drawing is the property of the above named Professional and shall be the sole property and the named herein, and cannot be reproduced in any manner without the express written permission from the Professional.
 3/1/23 PERM/BD/ST



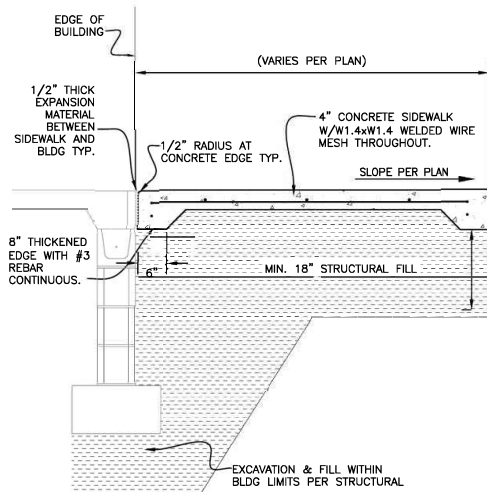
PROFESSIONAL IN CHARGE
 MZ
PROJECT MANAGER
 MZ
QUALITY CONTROL
 MZ/AM/D
DRAWN BY
 MZ

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO

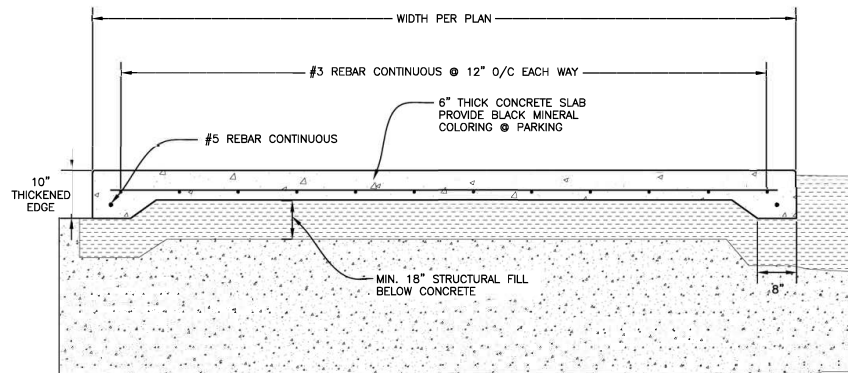


PROJECT NUMBER
 014764.40
SHEET TITLE
TYPICAL SITE SECTIONS
SHEET NUMBER

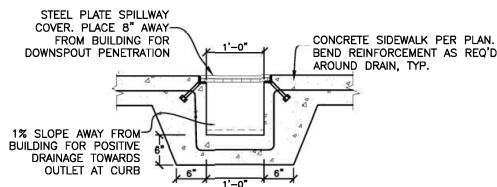
C-7-1



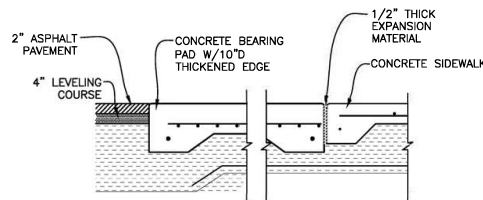
A TYPICAL SIDEWALK
C8.1 SCALE: (NTS)



B TYPICAL CONCRETE BEARING PAD
C8.1 SCALE: (NTS)



C TYP. ROOF DOWNSPOUT SPILLWAY
C8.1 SCALE: (NTS)

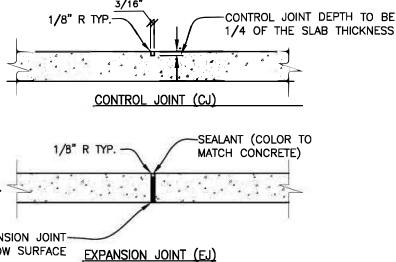


D SIDEWALK TO ASPHALT
C8.1 SCALE: (NTS)

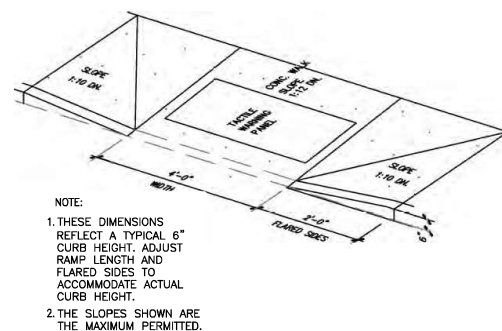
E NOT USED
C8.1 SCALE: (NTS)

NOTES:

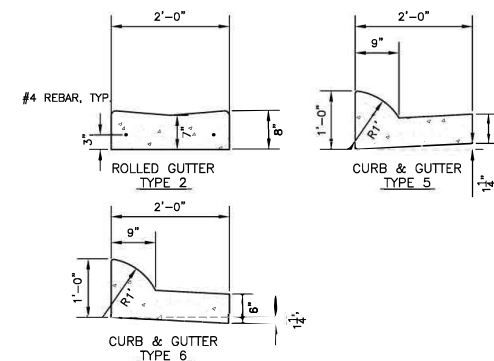
1. UNLESS OTHERWISE NOTED, CONTROL JOINTS SHALL OCCUR AT DISTANCES EQUAL TO WIDTH OF SIDEWALKS, WITH EXPANSION JOINTS NO FARTHER THAN 20 FEET APART.
2. UNLESS OTHERWISE NOTED, ALL CONCRETE FLATWORK TO BE OF BROOM FINISH, WITH PATTERN RUNNING PERPENDICULAR TO FLOW OF TRAFFIC.
3. CAULK ALL CONTROL AND EXPANSION JOINTS.



F CONTROL/CONSTRUCTION JOINT
C8.1 SCALE: (NTS)



G TYPICAL RAMP
C8.1 SCALE: (NTS)



H TYPICAL CURBS
C8.1 SCALE: (NTS)



155 BROADWAY STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 45522-078

COPYRIGHT NOTICE
This drawing is the property of the above
mentioned Professional and shall be used
project and the named herein, and cannot
be reproduced in any manner without the
express written permission from the Professional
mentioned herein.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

MZ
PROJECT MANAGER
MZD
QUALITY CONTROL
MZD/AMJ
DRAWN BY
MZD

PROJECT NAME

**CIRCLE K
STORES INC.
STORE #650**

**WASILLA
ALASKA**

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



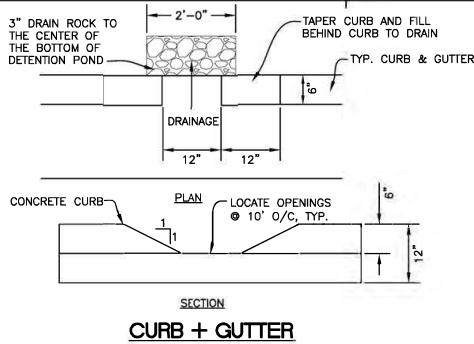
Holiday

PROJECT NUMBER
014764.40
SHEET TITLE

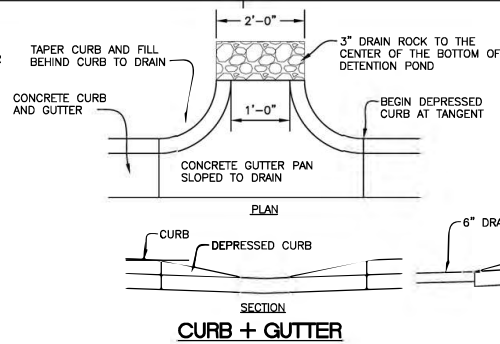
**TYPICAL
DETAILS**

SHEET NUMBER

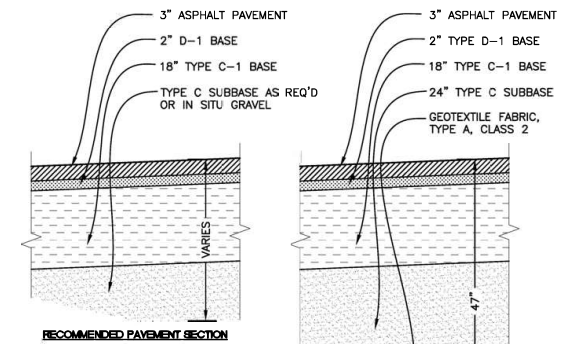
C-8.1



A CURB DRAIN
SCALE: (NTS)

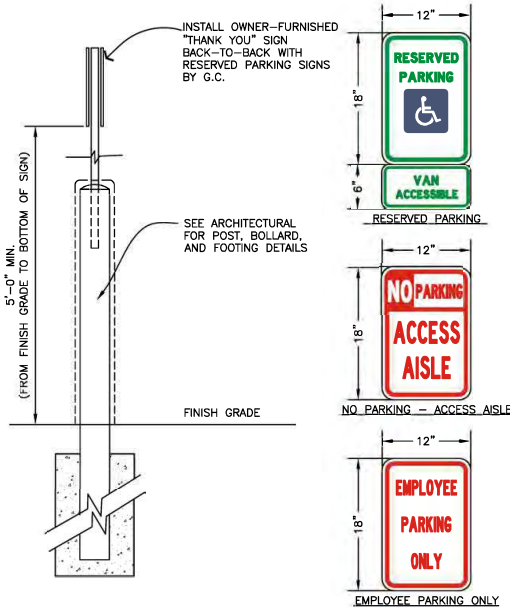


B CURB SPILLWAY
SCALE: (NTS)



PAVEMENT SECTION NOTES:
IN SITU SOILS CONFORMING TO TYPE C SUBBASE MATERIAL MAY BE USED IN LIEU OF TYPE C SUBBASE MATERIAL AS APPROVED BY THE OWNER'S REPRESENTATIVE.

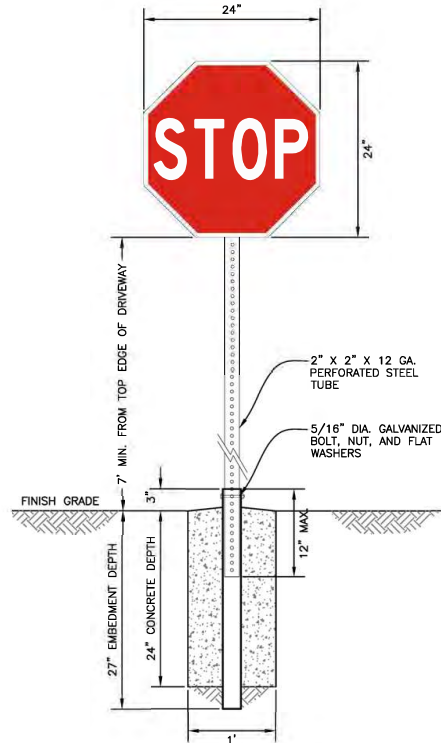
C TYPICAL PAVING SECTION
SCALE: (NTS)



GENERAL SIGN NOTES:

1. SIGN ALUMINUM, SHEET REFLECTIVE MATERIALS, LETTERING, AND BORDERS SHALL CONFORM TO ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT&PF) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION, SECTION 615 STANDARD SIGNS AND THE ADOT&PF ALASKA SIGN DESIGN SPECIFICATIONS.

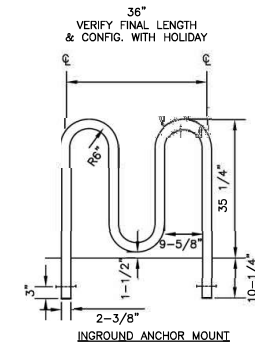
D TYPICAL SITE SIGNAGE
SCALE: (NTS)



STOP SIGN NOTES:

1. SIGN POSTS SHALL BE SQUARE PERFORATED STEEL TUBES THAT CONFORM WITH ASTM A-653. POSTS SHALL BE FABRICATED FROM 0.105-INCH THICK (12 U.S. STANDARD GAUGE) SHEET STEEL ZINC COATED ON BOTH SIDES TO MINIMUM COATING THICKNESS DESIGNATION G-30. FURNISH TUBES FORMED WITH SHEET STEELS ROLLED FROM STRUCTURAL GRADE STEEL WITH 50 KSI YIELD STRENGTH.
2. ALL TUBES SHALL BE PERFORATED ALONG THE CENTERLINE OF EACH SIDE FOR THEIR ENTIRE LENGTH WITH SEVEN-SIXTEENTH INCH (7/16") DIAMETER HOLES ON ONE INCH (1") CENTERS. ALL PERFORATION SHALL BE FREE FROM BURRS.
3. FURNISH TUBES IN LENGTHS THAT WILL PROVIDE ONE-PIECE SIGN POSTS, REGARDLESS OF GROUND CROSS SECTION.
4. SIGN ALUMINUM, SHEET REFLECTIVE MATERIALS, LETTERING, AND BORDERS SHALL CONFORM TO ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT&PF) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION, SECTION 615 STANDARD SIGNS AND THE ADOT&PF ALASKA SIGN DESIGN SPECIFICATIONS.

E TYPICAL STOP SIGN, POST, AND FOUNDATION
SCALE: (NTS)



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADetails.com/info REFERENCE NUMBER 4349-002.

The Original
RIBBON BIKE RACK
A A RIBBON BIKE RACK COMPANY
521 FIFTH AVENUE, 17TH FLOOR
NEW YORK, NY 10175
TOLL FREE: 1 (800) 849-3488
www.ribbonrack.com

F TYPICAL BIKE RACK
SCALE: (NTS)

NELSON ENGINEERING
155 BODARKA STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 8852-724

COPYRIGHT NOTICE
This drawing is the property of the above named Professional and shall be loaned for the project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/ABJ/SJ

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
MZO
PROJECT MANAGER
MZO
QUALITY CONTROL
MZO/MJD
DRAWN BY
MZO

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO

Holiday

PROJECT NUMBER
014764.40
SHEET TITLE
TYPICAL DETAILS
SHEET NUMBER
C-8.2



155 BIDARKA STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 0051272

COPYRIGHT NOTICE
This drawing is the property of the above
engineered Professional and shall be loaned
project and site related items, and cannot
be reproduced in any manner without the
express written permission from the Professional
Engineer.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE
MZO PROJECT MANAGER
MZO QUALITY CONTROL
MZO/AM/D DRAWN BY
MZO

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO

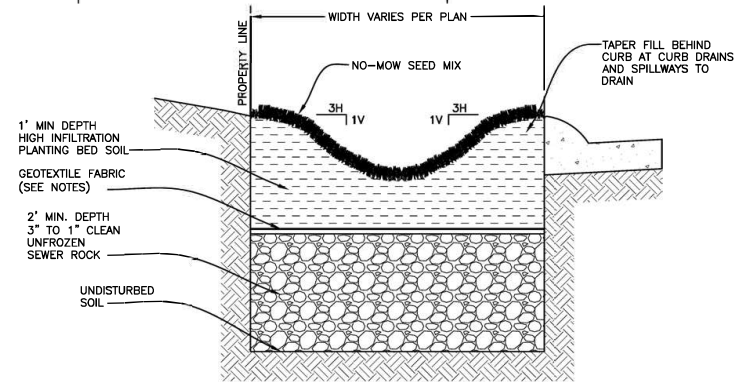


PROJECT NUMBER
014764.40
SHEET TITLE

TYPICAL DETAILS

SHEET NUMBER

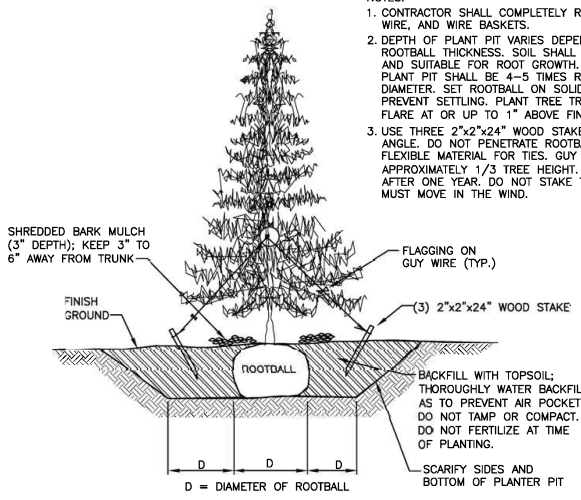
C-8.3



- NO-MOW SEED MIX:**
 A. 30% DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS
 B. 30% FETUSCA RUBRA 'BOREAL' / BOREAL RED FESCUE
 C. 30% POA PRATENSIS 'NUGGET' / NUGGET KENTUCKY BLUEGRASS
 D. 1% SOLIDAGO CANADENSIS / GOLDENROD
 E. 1% ACHILLEA MILEFOLIUM VAR. BOREALIS / BOREAL YARROW
 F. 1% SYMPHYOTRICHUM SUBSPICATUM / DOUGLAS ASTER
- HIGH INFILTRATION PLANTING BED SOIL:**
 A. 50% TOPSOIL
 B. 25% SAND
 C. 25% COMPOST

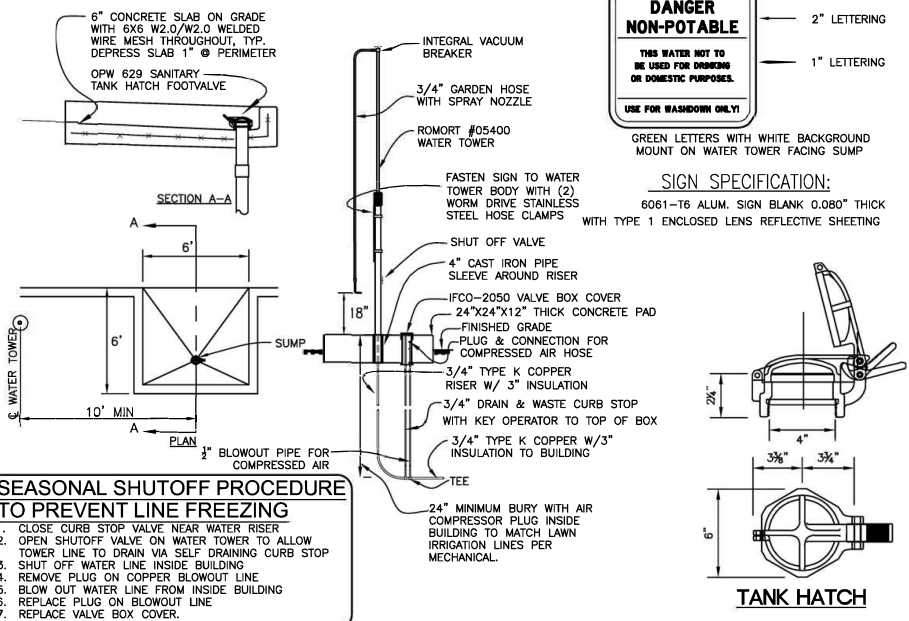
- NOTES:**
 1. HYDROSEED ALL DISTURBED AREAS WITH NO MOW SEED MIX AT RATE OF 4 PER 1,000 SF. APPLY HYDROSEED SLURRY PER MANUFACTURER'S RECOMMENDATIONS.
 2. IN THE SPRING, FERTILIZER SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATION FOR ALL PLANTINGS.
 3. GEOTEXTILE FABRIC: WEED STOP GEO-FABRIC: 3 OZ. NEEDLE PUNCH OR SPUN-BONDED POLYPROPYLENE WEED SUPPRESSION FABRIC.

- NOTES:**
 1. CONTRACTOR SHALL COMPLETELY REMOVE BURLAP, WIRE, AND WIRE BASKETS.
 2. DEPTH OF PLANT PIT VARIES DEPENDING ON ROOTBALL THICKNESS. SOIL SHALL BE LOOSENEED AND SUITABLE FOR ROOT GROWTH. TOP WIDTH OF PLANT PIT SHALL BE 4-5 TIMES ROOTBALL DIAMETER. SET ROOTBALL ON SOLID GROUND TO PREVENT SETTLING. PLANT TREE TRUNK WITH TRUNK FLARE AT OR UP TO 1" ABOVE FINISHED GROUND.
 3. USE THREE 2"x2"x24" WOOD STAKES. EMBED AT ANGLE. DO NOT PENETRATE ROOTBALL. USE SOFT, FLEXIBLE MATERIAL FOR TIES. GUY AT APPROXIMATELY 1/3 TREE HEIGHT. REMOVE GUY AFTER ONE YEAR. DO NOT STAKE TREE RIGID, IT MUST MOVE IN THE WIND.



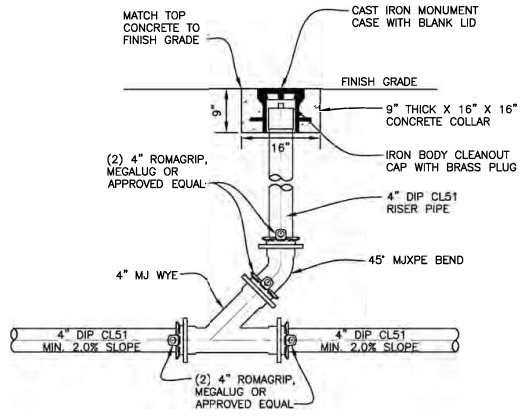
A TYPICAL CONIFER PLANTING
C8.3 SCALE: (NTS)

B TYPICAL BIORETENTION POND
C8.3 SCALE: (NTS)

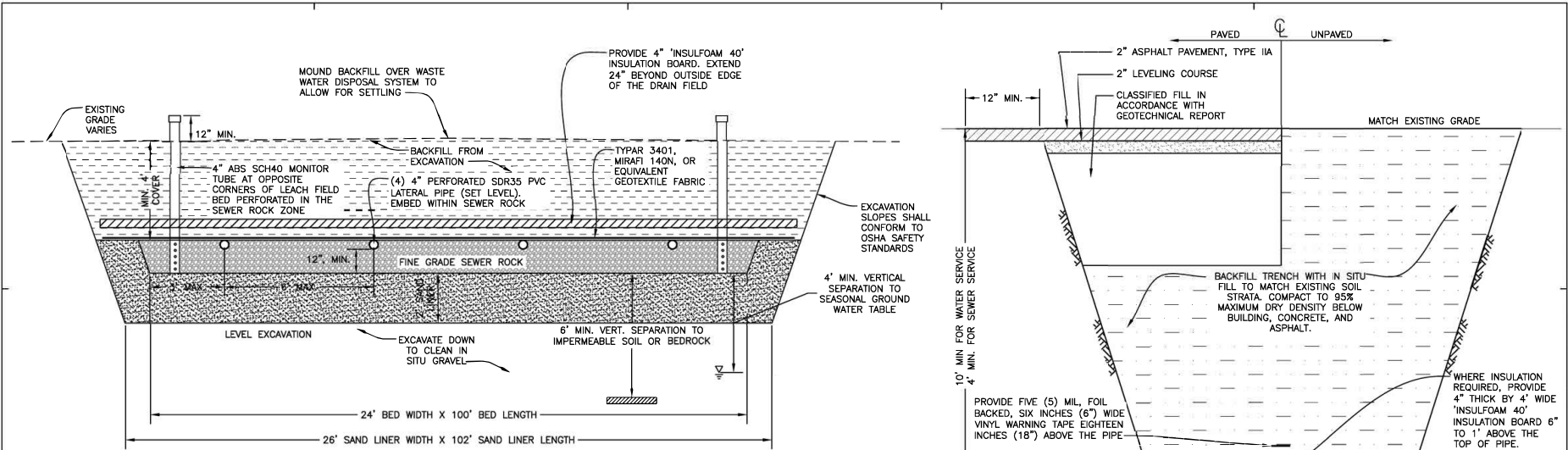


- SEASONAL SHUTOFF PROCEDURE TO PREVENT LINE FREEZING**
 1. CLOSE CURB STOP VALVE NEAR WATER RISER
 2. OPEN SHUTOFF VALVE ON WATER TOWER TO ALLOW TOWER LINE TO DRAIN VIA SELF DRAINING CURB STOP
 3. SHUT OFF WATER LINE INSIDE BUILDING
 4. REMOVE PLUG ON COPPER BLOWOUT LINE
 5. BLOW OUT WATER LINE FROM INSIDE BUILDING
 6. REPLACE PLUG ON BLOWOUT LINE
 7. REPLACE VALVE BOX COVER.

C RV DUMP/WASHDOWN CONSTRUCTION
C8.3 SCALE: (NTS)



D TYPICAL SANITARY SEWER CLEANOUT
C8.3 SCALE: (NTS)



A TYPICAL GRAVITY LEACH FIELD - BUILDING SERVICE
C8.4 SCALE: (NTS)

B TYPICAL TRENCH DETAIL
C8.4 SCALE: (NTS)

C NOT USED
C8.4 SCALE: (NTS)



copyright notice
This drawing is the property of the above named Professional and shall be used only for the project and site named herein, and shall not be reproduced in any manner without the express written permission from the Professional.

3/7/23 PRM/BD/SL

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE
M.Z.
PROJECT MANAGER
M.Z.
QUALITY CONTROL
M.Z./M.D.
DRAWN BY
M.Z.

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



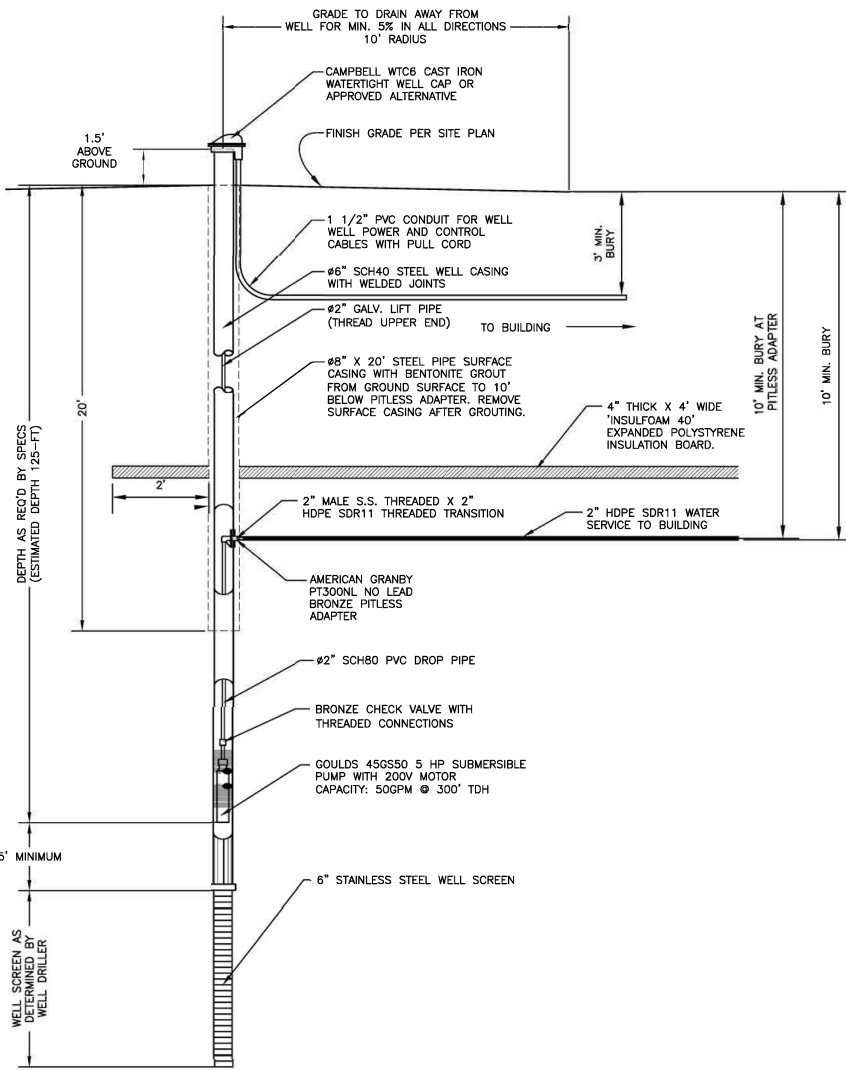
Holiday

PROJECT NUMBER
014764.40
SHEET TITLE

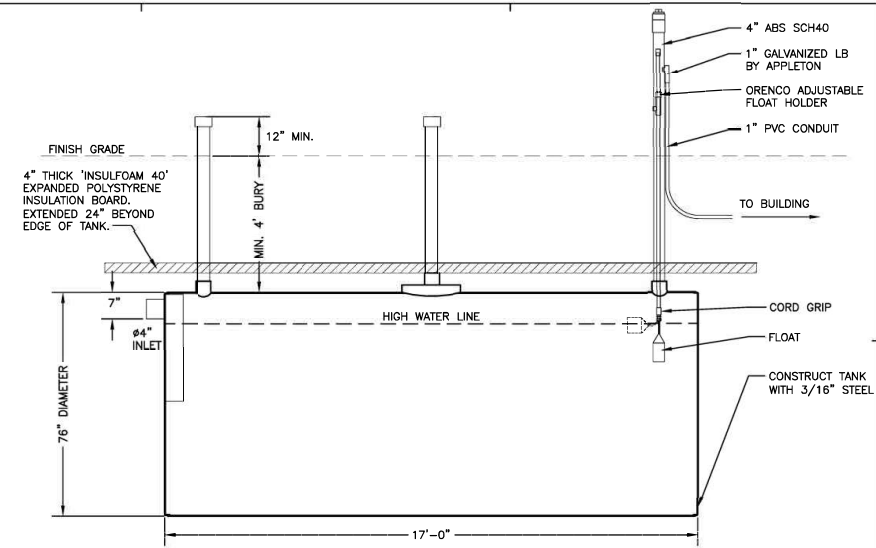
TYPICAL DETAILS

SHEET NUMBER

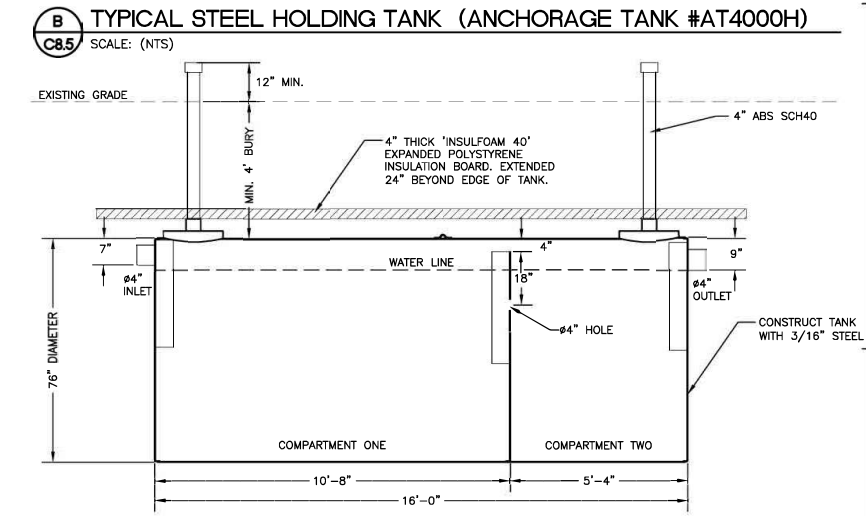
C-8.4



A TYPICAL 6" WELL WITH 2" WATER SERVICE TO BUILDING
 C8.5 SCALE: (NTS)



B TYPICAL STEEL HOLDING TANK (ANCHORAGE TANK #AT400H)
 C8.5 SCALE: (NTS)



C TYPICAL STEEL SEPTIC TANK (ANCHORAGE TANK #AT3500S)
 C8.5 SCALE: (NTS)

HOLDING TANK NOTES:

1. CONSTRUCT TANK TO THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE. CONTRACTOR TO PROVIDE ADEC APPROVED HOLDING TANK.
2. PROVIDE WATERTIGHT MANHOLE TO PREVENT SEEPING OF GROUNDWATER.
3. PROVIDE ADJUSTABLE FLOATS. SET FLOAT TO INDICATE FULL TANK AT 90% OF TANK VOLUME.
4. PROVIDE WEATHERPROOF AUDIO/VISUAL ALARM SYSTEM WITH RED WARNING LIGHT.
5. COAT ALL INTERIOR & EXTERIOR SURFACES WITH COAL TAR PITCH.
6. AFTER TANK INSTALLATION, RETURN GROUND ELEVATIONS IN AREA TO MATCH EXISTING CONDITIONS.

SEPTIC TANK NOTES:

1. FURNISH AND INSTALL ANCHORAGE TANK MODEL# AT2500S OR APPROVED ALTERNATIVE TANK.
2. CONSTRUCT TO THE REQUIREMENTS OF THE UNIFORM PLUMBING CODE (UPC).
3. FURNISH & INSTALL WATERTIGHT MANHOLES TO PREVENT SEEPING OF GROUNDWATER.
4. COAT ALL SURFACES INSIDE AND OUT WITH COAL TAR PITCH.
5. DIMENSIONS ARE APPROXIMATE.
6. BACKFILL AROUND TANK WITH SAND.

NELSON ENGINEERING
 155 BROADWAY STREET
 KENAI, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 45523-724

COPYRIGHT NOTICE
 This drawing is the property of the above named Professional and shall be used only for the project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/7/23 PSM/BD/ST

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
 M.D.
 PROJECT MANAGER
 M.Z.
 QUALITY CONTROL
 M.Z./M.D.
 DRAWN BY
 M.Z.

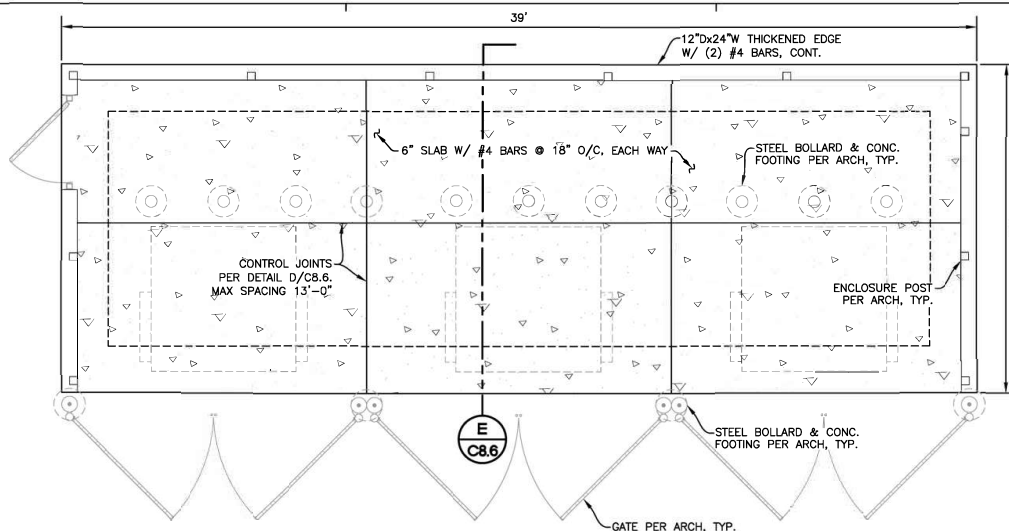
PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO

Holiday

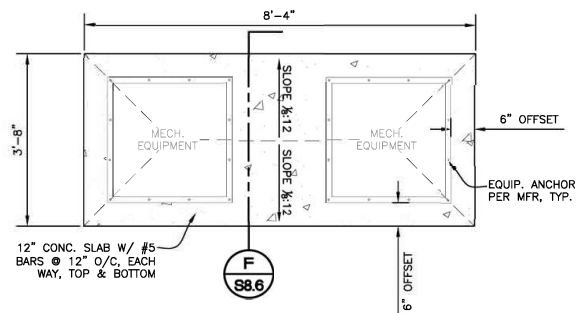
PROJECT NUMBER
 014764.40

SHEET TITLE
TYPICAL DETAILS

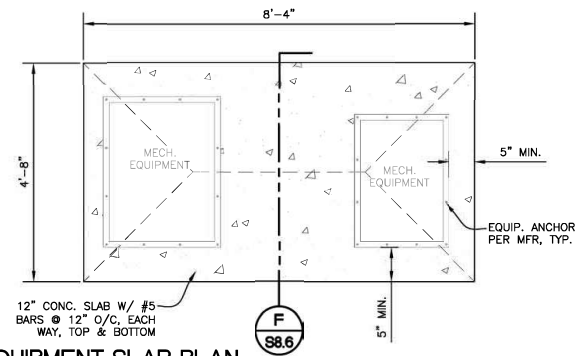
SHEET NUMBER
C-8.5



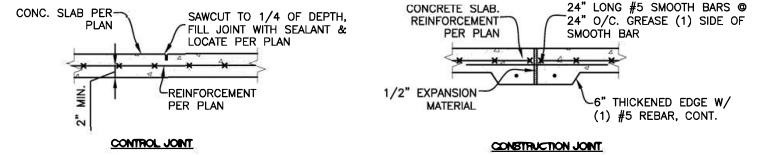
A DUMPSTER ENCLOSURE PLAN
C8.6 SCALE: (NTS)



B CONDENSER UNIT SLAB PLAN
C8.6 SCALE: (NTS)

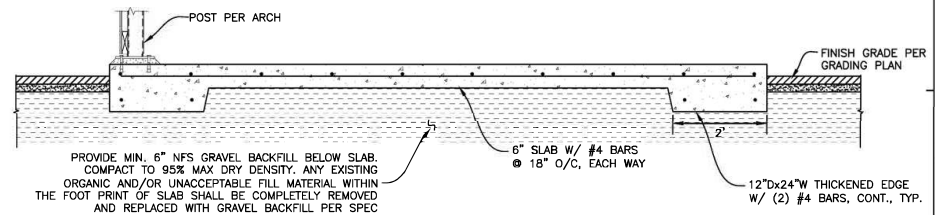


C HOLIDAY EQUIPMENT SLAB PLAN
C8.6 SCALE: (NTS)

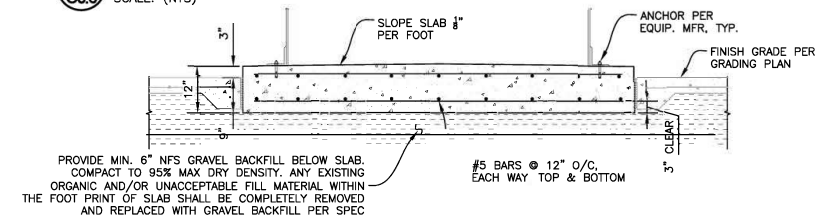


- NOTES:**
1.) CONTROL JOINTS MAY BE REPLACED W/ CONSTRUCTION JOINT
2.) SAW CUT JOINTS SHALL BE CUT WITHIN 24HRS OF POUR

D CONTROL/CONSTRUCTION JOINT
C8.6 SCALE: (NTS)



E DUMPSTER ENCLOSURE SLAB SECTION
C8.6 SCALE: (NTS)



F TYP. EQUIPMENT SLAB SECTION
C8.6 SCALE: (NTS)



155 BROADWAY STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 45523-2

COPYRIGHT NOTICE
This drawing is the property of the above named Professional and shall be loaned project and site related items, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

M/D
PROJECT MANAGER
M/D
QUALITY CONTROL
M/D/M/D
DRAWN BY
M/D

PROJECT NAME

**CIRCLE K
STORES INC.
STORE #650**

**WASILLA
ALASKA**

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



Holiday

PROJECT NUMBER
014764.40

SHEET TITLE

**TYPICAL
DETAILS**

SHEET NUMBER

C-8.6



NELSON ENGINEERING
 155 BIDAARKA STREET
 KENAI, ALASKA 99611
 (907) 283-3563
 LICENSE NO. 45522-278

COPYRIGHT NOTICE
 This drawing is the property of the above named Professional and shall be used only for the project and site named herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/BD/SJ



PROFESSIONAL IN CHARGE
 MZD PROJECT MANAGER
 MZD QUALITY CONTROL
 MZD/AM/D DRAWN BY
 MZD

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
 7751 WEST PARKS HWY
 WASILLA, ALASKA 99623
 MATANUSKA-SUSTITNA CO



Holiday

PROJECT NUMBER
 014764.40

SHEET TITLE
CONSTRUCTION SWPPP EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER
SWP-1

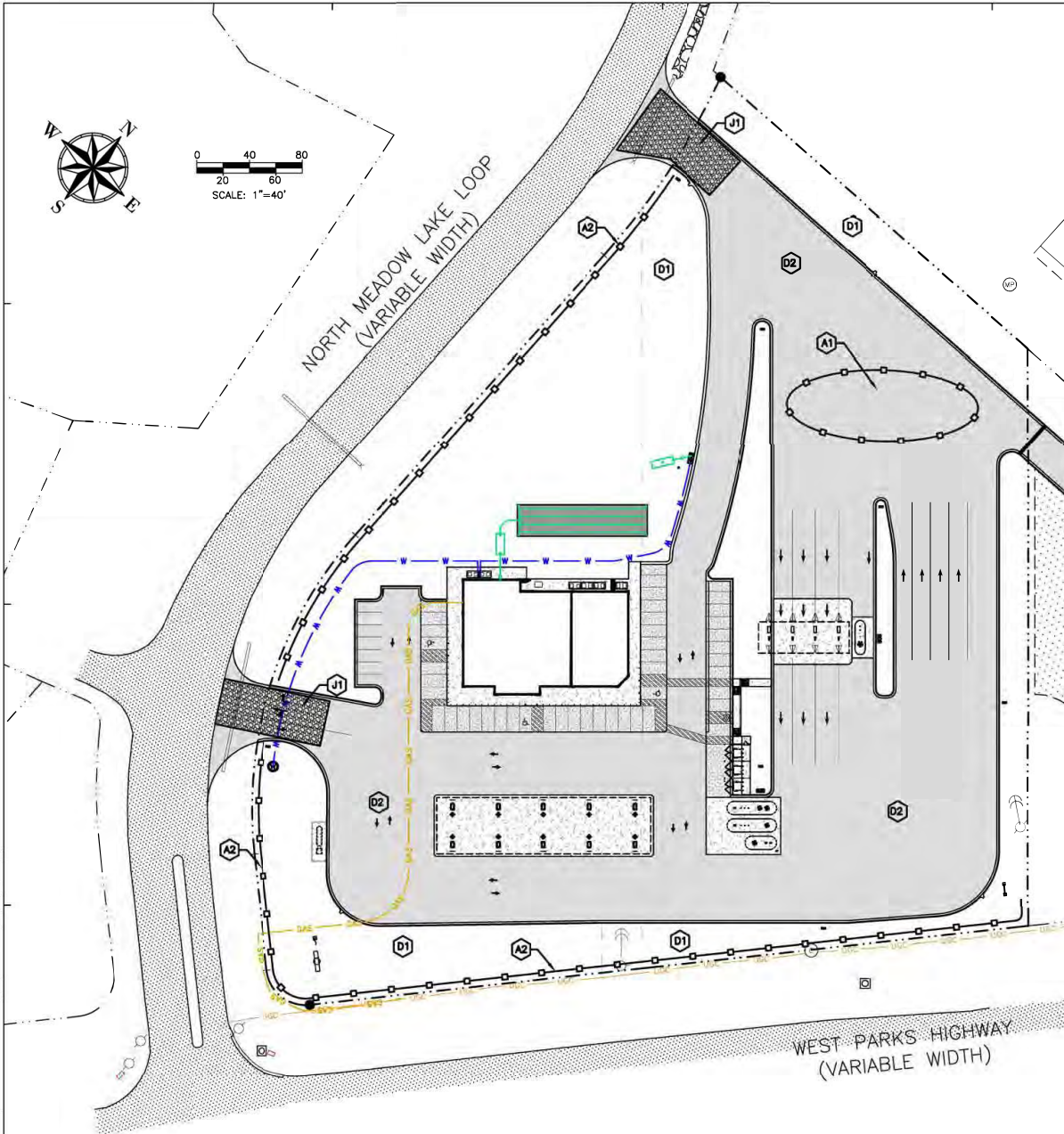
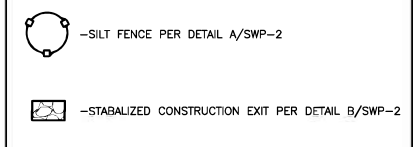
NOTES:

1. THIS PROJECT IS EXPECTED TO DISTURB OVER 1 ACRE. THE APPROVED SWPPP REPLACES THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP). AN NOI MUST BE SUBMITTED TO ADEC 7 DAYS PRIOR TO GROUND DISTURBING ACTIVITIES.
2. THE SWPPP MUST BE MODIFIED DURING CONSTRUCTION AS ACTIVITIES, WEATHER AND OTHER FACTORS REQUIRE.
3. DISTURBED AREAS MUST BE PROPERLY STABILIZED DURING AND AFTER CONSTRUCTION. FINAL STABILIZATION WILL INCLUDE ASPHALT, AND COMPACTION OF EXPOSED SURFACES TO PRE-CONSTRUCTION CONDITIONS.
4. PREVENT OFF-SITE TRACKING OF SEDIMENT. SWEEP AND KEEP CLEAN PUBLIC WAYS AFFECTED BY THE PROJECT.
5. WATER FOR DUST CONTROL AS NECESSARY.
6. REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL METHODS. ALL TEMPORARY EROSION AND SEDIMENT CONTROL METHODS SHALL BE REMOVED AFTER FINAL SITE STABILIZATION IS ACHIEVED AND THE TEMPORARY METHODS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF TEMPORARY METHODS SHALL BE PERMANENTLY STABILIZED WITH HYDROSEEDING.
7. CONTRACTOR SHALL MAINTAIN DRIP PANS, ABSORBENT PADS, AND SPILL KITS ON-SITE AT ALL TIMES. ALL EMPLOYEES SHALL BE MADE AWARE OF THEIR LOCATION AND TRAINED HOW TO USE THEM. REPORT ANY SPILLS IMMEDIATELY TO THE PROPER AUTHORITIES. FUEL TRUCKS SHALL NOT BE ONSITE UNLESS FUELING VEHICLES.
8. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL METHODS SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE OWNER SHALL BE RESPONSIBLE FOR ASSURING THAT ANY SUCH FACILITIES DAMAGED DURING FLOODS, STORMS OR OTHER ADVERSE WEATHER CONDITIONS ARE IMMEDIATELY RETURNED TO NORMAL OPERATING CONDITION.
9. THE DEVELOPER SHALL, AT ALL TIMES, PROTECT ADJACENT PROPERTIES AND PUBLIC RIGHTS-OF-WAY AND EASEMENTS FROM DAMAGE OCCURRING DURING, OR RESULTING FROM, GRADING OPERATIONS. THE DEVELOPER SHALL RESTORE PUBLIC IMPROVEMENTS DAMAGED BY THE DEVELOPER'S OPERATIONS.
10. CORRECTION OF DEFECTIVE MAINTENANCE. IF THE DEVELOPER OR OWNER, OR BOTH, REFUSE OR FAIL TO ADEQUATELY MAINTAIN AND KEEP THE EROSION AND SEDIMENT CONTROL FACILITIES FUNCTIONAL AT ALL TIMES, AND THE OWNER OF THE PROPERTY IS GIVEN SEVEN DAYS NOTICE TO PERFORM THE WORK NECESSARY TO MAKE THE FACILITY FUNCTIONAL AND FAILS TO DO SO, THE BOROUGH MAY USE PUBLIC FUNDS TO COMPLETE MAINTENANCE OF THE FACILITIES AT THE COST OF THE DEVELOPER AND THE PROPERTY OWNER, WHO SHALL BE JOINTLY AND SEVERALLY LIABLE FOR SUCH COSTS.

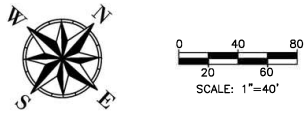
KEY NOTES:

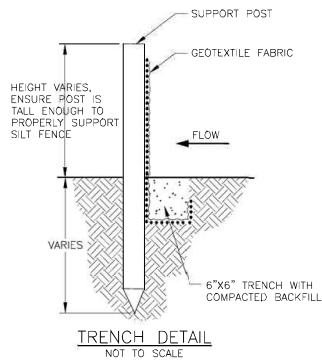
- A1 CONTRACTOR SHALL STOCKPILE MATERIAL WITHIN THE LIMITS OF THE PROPOSED WORK AREA. SILT FENCE SHALL BE USED TO BORDER MATERIAL STOCKPILES TO PREVENT SILT RUNOFF OFF-SITE.
- A2 SILT FENCE SHALL BE USED TO BORDER PROPERTY LINE TO PREVENT SILT RUNOFF OFF-SITE.
- D1 DETENTION PONDS SHALL BE CONSTRUCTED WITH POND FILTER GRAVEL AND FUNCTIONAL AS FIRST STEP, BEFORE ADDITIONAL LAND-DISTURBING ACTIVITIES TAKE PLACE ON SITE.
- D2 CONTRACTOR SHALL GRADE PARKING AREA AND BUILDING PERIMETER TO DRAIN TOWARDS DETENTION PONDS PRIOR TO BEGINNING EXCAVATION AROUND CONSTRUCTION SITE.
- I1 CONTRACTOR SHALL PLACE TRENCH EXCAVATION ON THE UPHILL SIDE OF TRENCH TO ENSURE ANY SEDIMENT RUN-OFF WILL ENTER THE TRENCH.
- J1 EXCESS MUD FROM VEHICLE TIRES SHALL BE REMOVED PRIOR TO LEAVING THE SITE. IF SEDIMENT OR DEBRIS ARE TRANSPORTED ONTO THE ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY, AS A MINIMUM, AT THE END OF EACH DAY. SEDIMENT OR DEBRIS SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

LEGEND



A CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN
 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



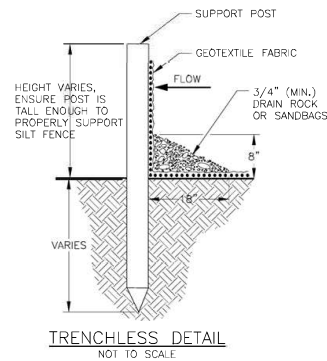


TRENCH DETAIL
NOT TO SCALE

TRENCH NOTES:

INSTALLATION

1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR POST BURIAL DEPTH.
3. EXCAVATE A TRENCH ON THE UPHILL SIDE ALONG THE LINE OF THE STAKES.
4. ATTACH GEOTEXTILE TO STAKES AND BURY GEOTEXTILE BOTTOM.
5. BACKFILL TRENCH AND COMPACT TO SECURE FENCE BOTTOM.



TRENCHLESS DETAIL
NOT TO SCALE

TRENCHLESS NOTES:

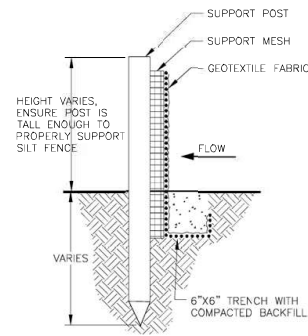
MATERIALS
CLEAN ROCK OR SANDBAGS.

INSTALLATION

1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. ATTACH GEOTEXTILE TO THE UPHILL SIDE ALONG THE LINE OF THE STAKES.
3. EXTEND GEOTEXTILE ON THE GROUND UPHILL OF THE FENCE.
4. PLACE DRAIN ROCK ON GEOTEXTILE.

REMOVAL

1. WHEN SILT FENCE IS LOCATED IN WETLANDS OR SENSITIVE AREAS, REMOVE CLEAN ROCK OR SANDBAGS WHEN THE SILT FENCE IS REMOVED.

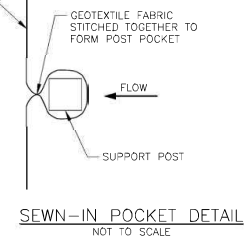


SUPPORT MESH REINFORCED FABRIC DETAIL
NOT TO SCALE

SUPPORT MESH REINFORCED FABRIC NOTES:

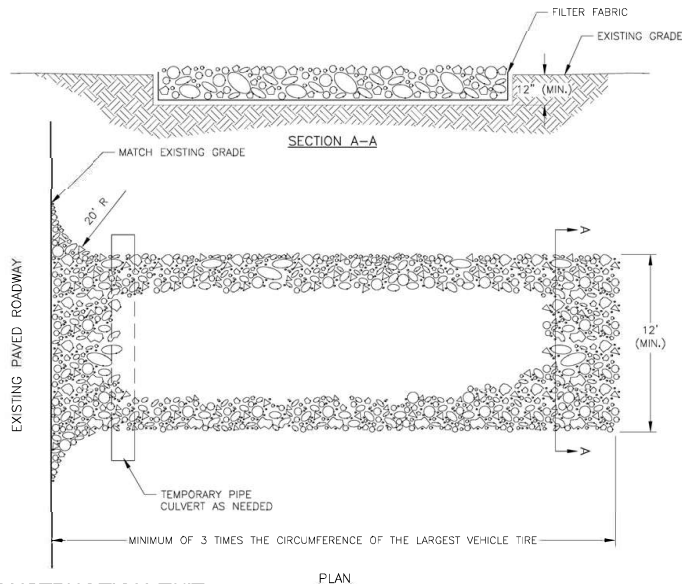
INSTALLATION

1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. EXCAVATE A TRENCH ON THE UPHILL SIDE ALONG THE LINE OF THE STAKES. DO NOT EXCAVATE TRENCHES IN PERMAFROST.
3. EXTEND SUPPORT MESH A MINIMUM OF 3 INCHES INTO THE TRENCH.
4. ATTACH GEOTEXTILE TO STAKES AND BURY GEOTEXTILE BOTTOM.
5. BACKFILL TRENCH AND COMPACT TO SECURE FENCE BOTTOM.



SEWN-IN POCKET DETAIL
NOT TO SCALE

A SILT FENCE DETAIL
SWP-2 SCALE: (NTS)



ROCK CONSTRUCTION EXIT NOTES:

MATERIALS

ROCK: 2- TO 3-INCH COARSE AGGREGATE OR 3- TO 6-INCH QUARRY SPALL OR ANGULAR ROCK, WHICHEVER IS APPROPRIATE TO THE PROJECT FLEET.

INSTALLATION

1. PLACE THE FILTER FABRIC AND ROCK TO THE SPECIFIC GRADE SHOWN ON THE PLANS.

MAINTENANCE

1. REMOVE ACCUMULATED SEDIMENT OR MUD.
2. REPLACE ROCK MATERIAL WHEN SURFACE VOIDS ARE FILLED WITH SEDIMENT. REPLACE FABRIC AS NEEDED.
3. TOP DRESS WITH 2 TO 3 INCHES OF COARSE AGGREGATE OR 3- TO 6-INCH COARSE ROCK WHEN THE PAD BECOMES LADEN WITH SEDIMENT.

INSPECTION

1. INSPECT FOR ROCK THAT HAS BEEN DISPLACED FROM THE PAD.

B STABILIZED CONSTRUCTION EXIT
SWP-2 SCALE: (NTS)

NELSON ENGINEERING
155 BODARKA STREET
KENAI, ALASKA 99611
(907) 283-3563
LICENSE NO. 48522-RTA

COPYRIGHT NOTICE
This drawing is the property of the above referenced Professional and shall be loaned to the project and the original herein, and cannot be reproduced in any manner without the express written permission from the Professional.

3/1/23 PSM/BD/SJ

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
M.Z.
PROJECT MANAGER
M.Z.
QUALITY CONTROL
M.Z./M.D.
DRAWN BY
M.Z.

PROJECT NAME
CIRCLE K STORES INC. STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO

Holiday

PROJECT NUMBER
014764.40

SHEET TITLE
CONSTRUCTION SWPPP EROSION & CONTROL DETAILS

SHEET NUMBER
SWP-2

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

APPENDIX B: SIZING AND DESIGN INFORMATION

10YR - 1HR STORM WATER RUNOFF CALCULATION

Pre-construction Run-off: Holiday Stationstore 7751 West Parks Hwy

Drainage Area	Runoff Coefficient (C)	Rain Fall Intensity (I) (inches)	Area (A) square feet	Area (A) (acres)	Volume (V) (ft ³)
DA-1 (Total area)			293232	6.732	
DA-2: Impervious	0.90	0.51	5500	0.126	210.375
DA-3: Gravel	0.60	0.51	88710	2.037	2262.105
DA-4: Forest	0.45	0.51	71450	1.640	1366.481
DA-4: Natural Brush	0.55	0.51	127572	2.929	0.821
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
Rational Method: $Q=C*I*A$			V=	3840	ft³

Post-construction Run-off: Holiday Stationstore 7751 West Parks Hwy

Drainage Area	Runoff Coefficient (C)	Rain Fall Intensity (I) (inches)	Area (A) square feet	Area (A) (acres)	Volume (V) (ft ³)
DA-1 (Total area)			293232	6.732	
DA-2: Impervious	0.90	0.51	183000	4.201	6999.750
DA-3: Landscaping	0.30	0.51	110232	2.531	1405.458
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
				0.000	0.000
			Total V=	8405	ft³
			Increased V=	4565	ft³

Notes:

Where (**Q**) is the total peak runoff flow expressed in ft³/sec
 and (**C**) is the site runoff coefficient
 and (**I**) is the Rainfall intensity expressed in (in/hr)
 and (**A**) is the drainage area expressed in (acres)
 and (**V**) is the total peak hourly volume expressed in (ft³)

Bioretention Pond #1 - SW	14850 ft ³
Bioretention Pond #2 - SE	6615 ft ³
Bioretention Pond #3 - N	6750 ft ³
Bioretention Pond #4 - NW	9585 ft ³
Total Pond Storage Volume	37,800 ft³
Total Storage Volume Required	8405 ft³



4/12/2023

NOAA Atlas 14, Volume 7, Version 2 MATANUSKA

AG EXP STN

Station ID: 50-5733

Location name: Palmer, Alaska, USA*

Latitude: 61.5667°, Longitude: -149.25°

Elevation:

Elevation (station metadata): 172 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Douglas Kane, Sarah Dietz, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Svetlana Stuefer, Amy Tidwell, Carl Trypaluk, Dale Unruh, Michael Yekta, Erica Betts, Geoffrey Bonnin, Sarah Heim, Lillian Hiner, Elizabeth Lilly, Jayashree Narayanan, Fenglin Yan, Tan Zhao

NOAA, National Weather Service, Silver Spring, Maryland
and
University of Alaska Fairbanks, Water and Environmental Research Center

[PF_tabular](#) | [PF_graphical](#) | [Maps_&_aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.100 (0.074-0.138)	0.124 (0.091-0.173)	0.154 (0.111-0.219)	0.179 (0.127-0.258)	0.213 (0.148-0.313)	0.239 (0.164-0.356)	0.265 (0.179-0.400)	0.293 (0.195-0.449)	0.330 (0.216-0.515)	0.358 (0.231-0.566)
10-min	0.135 (0.100-0.186)	0.166 (0.121-0.232)	0.206 (0.148-0.292)	0.240 (0.170-0.345)	0.286 (0.199-0.420)	0.321 (0.220-0.478)	0.356 (0.241-0.538)	0.393 (0.262-0.602)	0.443 (0.290-0.691)	0.480 (0.310-0.760)
15-min	0.158 (0.117-0.218)	0.195 (0.143-0.272)	0.241 (0.173-0.342)	0.281 (0.199-0.405)	0.334 (0.232-0.490)	0.376 (0.258-0.560)	0.417 (0.282-0.630)	0.460 (0.307-0.705)	0.519 (0.340-0.810)	0.562 (0.363-0.889)
30-min	0.210 (0.155-0.290)	0.258 (0.189-0.360)	0.320 (0.230-0.454)	0.372 (0.264-0.536)	0.444 (0.309-0.652)	0.499 (0.342-0.743)	0.553 (0.374-0.835)	0.611 (0.407-0.936)	0.688 (0.450-1.07)	0.746 (0.482-1.18)
60-min	0.287 (0.212-0.396)	0.354 (0.259-0.494)	0.439 (0.316-0.623)	0.510 (0.362-0.734)	0.608 (0.423-0.892)	0.683 (0.469-1.02)	0.758 (0.513-1.15)	0.837 (0.558-1.28)	0.943 (0.617-1.47)	1.02 (0.660-1.62)
2-hr	0.347 (0.257-0.479)	0.428 (0.313-0.597)	0.531 (0.382-0.754)	0.616 (0.437-0.887)	0.735 (0.512-1.08)	0.825 (0.566-1.23)	0.916 (0.620-1.38)	1.01 (0.675-1.55)	1.14 (0.746-1.78)	1.24 (0.798-1.95)
3-hr	0.406 (0.300-0.560)	0.501 (0.367-0.699)	0.621 (0.447-0.881)	0.721 (0.512-1.04)	0.860 (0.599-1.26)	0.966 (0.663-1.44)	1.07 (0.725-1.62)	1.19 (0.790-1.82)	1.33 (0.873-2.08)	1.45 (0.934-2.29)
6-hr	0.555 (0.411-0.766)	0.684 (0.501-0.954)	0.849 (0.611-1.21)	0.985 (0.699-1.42)	1.17 (0.817-1.72)	1.32 (0.905-1.96)	1.46 (0.990-2.21)	1.62 (1.08-2.48)	1.82 (1.19-2.84)	1.98 (1.27-3.13)
12-hr	0.758 (0.561-1.05)	0.934 (0.684-1.30)	1.17 (0.839-1.66)	1.35 (0.960-1.95)	1.61 (1.12-2.36)	1.81 (1.24-2.69)	2.01 (1.36-3.03)	2.22 (1.48-3.40)	2.50 (1.64-3.91)	2.72 (1.75-4.30)
24-hr	1.02 (0.885-1.20)	1.26 (1.08-1.49)	1.58 (1.32-1.91)	1.83 (1.51-2.25)	2.17 (1.75-2.72)	2.43 (1.93-3.10)	2.70 (2.10-3.50)	2.98 (2.28-3.93)	3.36 (2.52-4.52)	3.64 (2.69-4.98)
2-day	1.29 (1.11-1.50)	1.58 (1.35-1.87)	1.97 (1.65-2.37)	2.26 (1.86-2.77)	2.65 (2.14-3.33)	2.95 (2.34-3.76)	3.25 (2.53-4.22)	3.56 (2.73-4.69)	3.97 (2.98-5.34)	4.27 (3.16-5.85)
3-day	1.46 (1.26-1.71)	1.79 (1.53-2.11)	2.21 (1.85-2.67)	2.53 (2.09-3.11)	2.95 (2.38-3.71)	3.27 (2.59-4.17)	3.59 (2.80-4.65)	3.90 (2.99-5.15)	4.32 (3.24-5.82)	4.64 (3.43-6.35)
4-day	1.60 (1.38-1.86)	1.94 (1.66-2.30)	2.40 (2.01-2.89)	2.74 (2.25-3.36)	3.18 (2.56-3.99)	3.52 (2.79-4.49)	3.84 (3.00-4.99)	4.17 (3.20-5.50)	4.60 (3.45-6.20)	4.93 (3.64-6.74)
7-day	1.91 (1.65-2.23)	2.31 (1.97-2.73)	2.83 (2.37-3.42)	3.22 (2.65-3.95)	3.73 (3.01-4.68)	4.11 (3.26-5.25)	4.49 (3.50-5.82)	4.86 (3.73-6.41)	5.35 (4.02-7.21)	5.72 (4.23-7.83)
10-day	2.15 (1.86-2.52)	2.59 (2.21-3.07)	3.17 (2.65-3.82)	3.59 (2.96-4.41)	4.15 (3.35-5.21)	4.57 (3.62-5.83)	4.98 (3.88-6.46)	5.39 (4.13-7.11)	5.93 (4.45-7.98)	6.33 (4.68-8.66)
20-day	2.97 (2.57-3.47)	3.55 (3.03-4.20)	4.29 (3.59-5.18)	4.84 (3.99-5.94)	5.55 (4.47-6.96)	6.07 (4.80-7.74)	6.57 (5.12-8.52)	7.06 (5.41-9.30)	7.70 (5.78-10.4)	8.18 (6.04-11.2)
30-day	3.74 (3.24-4.37)	4.46 (3.81-5.27)	5.37 (4.49-6.48)	6.03 (4.96-7.39)	6.86 (5.53-8.61)	7.48 (5.92-9.54)	8.06 (6.28-10.5)	8.61 (6.60-11.4)	9.35 (7.01-12.6)	9.90 (7.31-13.5)
45-day	4.78 (4.14-5.59)	5.69 (4.86-6.73)	6.82 (5.71-8.24)	7.63 (6.28-9.36)	8.62 (6.95-10.8)	9.34 (7.40-11.9)	10.0 (7.80-13.0)	10.6 (8.14-14.0)	11.4 (8.57-15.4)	12.0 (8.89-16.5)
60-day	5.63 (4.87-6.57)	6.71 (5.74-7.94)	8.02 (6.72-9.68)	8.93 (7.35-11.0)	10.0 (8.07-12.6)	10.8 (8.52-13.7)	11.4 (8.92-14.8)	12.0 (9.23-15.9)	12.8 (9.61-17.3)	13.4 (9.89-18.3)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

[Back to Top](#)

PF graphical



NOAA Atlas 14, Volume 7, Version 2
Location name: Palmer, Alaska, USA*
Latitude: 61.5667°, Longitude: -149.25°
Elevation: m/ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Douglas Kane, Sarah Dietz, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Svetlana Stuefer, Amy Tidwell, Carl Trypaluk, Dale Unruh, Michael Yekta, Erica Betts, Geoffrey Bonnin, Sarah Heim, Lillian Hiner, Elizabeth Lilly, Jayashree Narayanan, Fenglin Yan, Tan Zhao

NOAA, National Weather Service, Silver Spring, Maryland
 and
 University of Alaska Fairbanks, Water and Environmental Research Center

[PF_tabular](#) | [PF_graphical](#) | [Maps_&_aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	1.20 (0.888-1.66)	1.49 (1.09-2.08)	1.85 (1.33-2.63)	2.15 (1.52-3.10)	2.56 (1.78-3.76)	2.87 (1.97-4.27)	3.18 (2.15-4.80)	3.52 (2.34-5.39)	3.96 (2.59-6.18)	4.30 (2.77-6.79)
10-min	0.810 (0.600-1.12)	0.996 (0.726-1.39)	1.24 (0.888-1.75)	1.44 (1.02-2.07)	1.72 (1.19-2.52)	1.93 (1.32-2.87)	2.14 (1.45-3.23)	2.36 (1.57-3.61)	2.66 (1.74-4.15)	2.88 (1.86-4.56)
15-min	0.632 (0.468-0.872)	0.780 (0.572-1.09)	0.964 (0.692-1.37)	1.12 (0.796-1.62)	1.34 (0.928-1.96)	1.50 (1.03-2.24)	1.67 (1.13-2.52)	1.84 (1.23-2.82)	2.08 (1.36-3.24)	2.25 (1.45-3.56)
30-min	0.420 (0.310-0.580)	0.516 (0.378-0.720)	0.640 (0.460-0.908)	0.744 (0.528-1.07)	0.888 (0.618-1.30)	0.998 (0.684-1.49)	1.11 (0.748-1.67)	1.22 (0.814-1.87)	1.38 (0.900-2.15)	1.49 (0.964-2.36)
60-min	0.287 (0.212-0.396)	0.354 (0.259-0.494)	0.439 (0.316-0.623)	0.510 (0.362-0.734)	0.608 (0.423-0.892)	0.683 (0.469-1.02)	0.758 (0.513-1.15)	0.837 (0.558-1.28)	0.943 (0.617-1.47)	1.02 (0.660-1.62)
2-hr	0.174 (0.128-0.240)	0.214 (0.156-0.298)	0.266 (0.191-0.377)	0.308 (0.218-0.444)	0.368 (0.256-0.540)	0.412 (0.283-0.614)	0.458 (0.310-0.692)	0.506 (0.338-0.775)	0.570 (0.373-0.889)	0.618 (0.399-0.977)
3-hr	0.135 (0.100-0.186)	0.167 (0.122-0.233)	0.207 (0.149-0.293)	0.240 (0.170-0.346)	0.286 (0.199-0.420)	0.322 (0.221-0.479)	0.357 (0.241-0.539)	0.395 (0.263-0.604)	0.444 (0.291-0.693)	0.482 (0.311-0.762)
6-hr	0.093 (0.069-0.128)	0.114 (0.084-0.159)	0.142 (0.102-0.201)	0.164 (0.117-0.237)	0.196 (0.136-0.288)	0.220 (0.151-0.328)	0.244 (0.165-0.369)	0.270 (0.180-0.414)	0.304 (0.199-0.475)	0.330 (0.213-0.522)
12-hr	0.063 (0.047-0.087)	0.078 (0.057-0.108)	0.097 (0.070-0.137)	0.112 (0.080-0.162)	0.134 (0.093-0.196)	0.150 (0.103-0.223)	0.167 (0.113-0.252)	0.184 (0.123-0.282)	0.208 (0.136-0.324)	0.225 (0.145-0.357)
24-hr	0.043 (0.037-0.050)	0.052 (0.045-0.062)	0.066 (0.055-0.080)	0.076 (0.063-0.094)	0.090 (0.073-0.113)	0.101 (0.080-0.129)	0.112 (0.088-0.146)	0.124 (0.095-0.164)	0.140 (0.105-0.188)	0.152 (0.112-0.207)
2-day	0.027 (0.023-0.031)	0.033 (0.028-0.039)	0.041 (0.034-0.049)	0.047 (0.039-0.058)	0.055 (0.044-0.069)	0.061 (0.049-0.078)	0.068 (0.053-0.088)	0.074 (0.057-0.098)	0.083 (0.062-0.111)	0.089 (0.066-0.122)
3-day	0.020 (0.018-0.024)	0.025 (0.021-0.029)	0.031 (0.026-0.037)	0.035 (0.029-0.043)	0.041 (0.033-0.051)	0.045 (0.036-0.058)	0.050 (0.039-0.065)	0.054 (0.042-0.071)	0.060 (0.045-0.081)	0.064 (0.048-0.088)
4-day	0.017 (0.014-0.019)	0.020 (0.017-0.024)	0.025 (0.021-0.030)	0.029 (0.023-0.035)	0.033 (0.027-0.042)	0.037 (0.029-0.047)	0.040 (0.031-0.052)	0.043 (0.033-0.057)	0.048 (0.036-0.065)	0.051 (0.038-0.070)
7-day	0.011 (0.010-0.013)	0.014 (0.012-0.016)	0.017 (0.014-0.020)	0.019 (0.016-0.024)	0.022 (0.018-0.028)	0.024 (0.019-0.031)	0.027 (0.021-0.035)	0.029 (0.022-0.038)	0.032 (0.024-0.043)	0.034 (0.025-0.047)
10-day	0.009 (0.008-0.010)	0.011 (0.009-0.013)	0.013 (0.011-0.016)	0.015 (0.012-0.018)	0.017 (0.014-0.022)	0.019 (0.015-0.024)	0.021 (0.016-0.027)	0.022 (0.017-0.030)	0.025 (0.019-0.033)	0.026 (0.019-0.036)
20-day	0.006 (0.005-0.007)	0.007 (0.006-0.009)	0.009 (0.007-0.011)	0.010 (0.008-0.012)	0.012 (0.009-0.014)	0.013 (0.010-0.016)	0.014 (0.011-0.018)	0.015 (0.011-0.019)	0.016 (0.012-0.022)	0.017 (0.013-0.023)
30-day	0.005 (0.004-0.006)	0.006 (0.005-0.007)	0.007 (0.006-0.009)	0.008 (0.007-0.010)	0.010 (0.008-0.012)	0.010 (0.008-0.013)	0.011 (0.009-0.015)	0.012 (0.009-0.016)	0.013 (0.010-0.017)	0.014 (0.010-0.019)
45-day	0.004 (0.004-0.005)	0.005 (0.005-0.006)	0.006 (0.005-0.008)	0.007 (0.006-0.009)	0.008 (0.006-0.010)	0.009 (0.007-0.011)	0.009 (0.007-0.012)	0.010 (0.008-0.013)	0.011 (0.008-0.014)	0.011 (0.008-0.015)
60-day	0.004 (0.003-0.005)	0.005 (0.004-0.006)	0.006 (0.005-0.007)	0.006 (0.005-0.008)	0.007 (0.006-0.009)	0.007 (0.006-0.010)	0.008 (0.006-0.010)	0.008 (0.006-0.011)	0.009 (0.007-0.012)	0.009 (0.007-0.013)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

[Back to Top](#)

PF graphical

Permanent Storm Water Control Plan – Circle K Stores, Inc. - Holiday Station Store Wasilla
Legal: T17N, R2W, SECTION 9, LOTS A14 AND A22

APPENDIX C: OPERATIONS AND MAINTENANCE PLAN

**Circle K Stores, Inc. Store #650
Holiday Station Store
7751 West Parks Hwy
Wasilla, AK 99623**

**Storm Drainage System
Operations and Maintenance Plan**

1. Scheduled Parking Lot Maintenance
 - a. Sweep parking lot a minimum of two times per year.
 - i. Sweep once after breakup, prior to June 15.
 - ii. Sweep once in the fall, prior to October 15.
2. Periodic Inspection and Maintenance by Owner (or Owner's Designee).
 - a. Parking Lot Inspection, Monthly
 - i. Look for spills of hazardous materials, clean up if found.
 - ii. Investigate reported spills and clean up promptly.
 - b. Bio-Detention Ponds, Midsummer
 - i. Verify that vegetation is alive and thriving.
 - ii. Clean out excessive silt/sand/gravel build up when depth of accumulated material reaches 2".
 - iii. Clean out overgrowth of vegetation at curb drains and spillways to ensure storm water runoff is directed into bioretention ponds.
 - iv. Check for oil or other fluids accumulating in pond area. Remove if found.

Plan Approved By:

Mark Stinson

Printed Name of Owner/Title

Mark Stinson Digitally signed by Mark Stinson
Date: 2023.04.11 17:23:07 -05'00'

Signature of Owner

4/11/23

Date

APPENDIX 4: ALCOHOLIC BEVERAGE LICENSE





THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

**Department of Commerce,
Community,
and Economic Development**

ALCOHOL & MARIJUANA CONTROL OFFICE

550 West Seventh Avenue, Suite 1600
Anchorage, AK 99501
Main: 907.269.03

May 14, 2024

Holiday Alaska, LLC
Premises: 7751 W Parks Highway, Wasilla
Via Email: gary.brant@holidaycompanies.com

Re: dba Holiday #650. License 4198

Dear Applicant:

Our staff has reviewed your application for a transfer of a package store to another location. Your application documents appear to be in order.

Your application is now considered complete for purposes of AS 04.11.310, AS 04.11.510, and AS 04.11.520, and will be sent electronically to your local governing body, your community council if your proposed premises is in Anchorage or certain locations in the Matanuska-Susitna Borough, and to any non-profit agencies who have requested notification of applications. The local governing body will have 60 days to protest the issuance of this license and/or endorsement.

If you have not yet received all necessary approvals, such as a local license, conditional use permit, site plan review, Fire Marshal approval, or Department of Environmental Conservation approval, you should continue to work with those local or state agencies to get the requirements completed. Your application may be considered by the board while some approvals are still pending. However, your license will not be finally issued and ready to operate until all necessary approvals are received and a preliminary inspection of your premises by AMCO enforcement staff is completed.

Your application will be scheduled for the **June 25, 2024**, board meeting for Alcoholic Beverage Control Board consideration. The Zoom link will be posted on our website closer to the date of the meeting.

Please email questions to alcohol.licensing@alaska.gov

Sincerely,

Jane P. Sawyer
Program Coordinator



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Commerce, Community,
and Economic Development

ALCOHOL & MARIJUANA CONTROL OFFICE
550 West 7th Avenue, Suite 1600
Anchorage, AK 99501
Main: 907.269.0350

May 14, 2024

Matanuska-Susitna Borough

Email: license.reviews@matsugov.us; alex.strawn@matsugov.us

License Type:	Package Store	License Number:	4198
Licensee:	Holiday Alaska, LLC		
Doing Business As:	Holiday #650		
Premises Address	To: 7751 W Parks Highway, Wasilla, AK 99623 from: 7383 W Parks Highway, Wasilla		

- New Application
 Transfer of Ownership Application
 Transfer of Location Application
 Transfer of Controlling Interest Application

We have received a completed application for the above listed license (see attached application documents) within your jurisdiction. This is the notice required under AS 04.11.480.

A local governing body may protest the approval of an application(s) pursuant to AS 04.11.480 by furnishing the director **and** the applicant with a clear and concise written statement of reasons for the protest within 60 days of receipt of this notice, and by allowing the applicant a reasonable opportunity to defend the application before a meeting of the local governing body, as required by 3 AAC 304.145(d). If a protest is filed, the board will deny the application unless the board finds that the protest is arbitrary, capricious, and unreasonable. To protest the application referenced above, please submit your protest within 60 days and show proof of service upon the applicant.

AS 04.11.491 – AS 04.11.509 provide that the board will deny a license application if the board finds that the license is prohibited under as a result of an election conducted under AS 04.11.507.

AS 04.11.420 provides that the board will not issue a license when a local governing body protests an application on the grounds that the applicant’s proposed licensed premises are located in a place within the local government where a local zoning ordinance prohibits the alcohol establishment, unless the local government has approved a variance from the local ordinance.

Sincerely,
Jane P. Sawyer, Program Coordinator
For,
Joan Wilson, Director
amco.localgovernmentonly@alaska.gov



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350

Why is this form needed?

This transfer license application form is required for all individuals or entities seeking to apply for the transfer of ownership and/or location of an existing liquor license. Applicants should review **Title 04 of Alaska Statutes** and **Chapter 304 of the Alaska Administrative Code**. All fields of this form must be completed, per AS 04.11.260, AS 04.11.280, AS 04.11.290, and 3 AAC 304.105.

This form must be completed and submitted to AMCO's Anchorage office, along with all other required forms and documents, before any license application will be considered complete.

Section 1 – Transferor Information

Enter information for the *current* licensee and licensed establishment.

Licensee:	Holiday Alaska, LLC	License #:	4198
License Type:	Package Store	Statutory Reference:	AS 04.11.150
Doing Business As:	Holiday #650		
Premises Address:	7383 W Parks Hwy		
City:	Wasilla	State:	AK
		ZIP:	99623
Local Governing Body:	Matanuska-Susitna Boroguh		

Transfer Type:

- Regular transfer
- Transfer with security interest
- Involuntary retransfer

OFFICE USE ONLY			
Complete Date:		Transaction #:	
Board Meeting Date:		License Years:	
Issue Date:		Examiner:	



Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 2 – Transferee Information

Enter information for the *new* applicant and/or location seeking to be licensed.

Licensee:	Holiday Alaska, LLC				
Doing Business As:	Holiday #650				
Premises Address:	7751 W Parks Hwy				
City:	Wasilla	State:	AK	ZIP:	99623
Community Council:	Matanuska-Susitna Boroguh				

Mailing Address:	PO Box 347				
City:	Columbus	State:	IN	ZIP:	47202

Designated Licensee:	Gary Brant				
Contact Phone:	952-830-8700	Business Phone:	952-830-8046		
Contact Email:	gary.brant@holidaycompanies.com				

Seasonal License? Yes No If "Yes", write your six-month operating period: _____

Section 3 – Premises Information

Premises to be licensed is:

an existing facility a new building a proposed building

The next two questions must be completed by beverage dispensary (including tourism) and package store applicants only:

What is the distance of the shortest pedestrian route from the public entrance of the building of your proposed premises to the outer boundaries of the nearest school grounds? Include the unit of measurement in your answer.

0.7 miles American Charter School

What is the distance of the shortest pedestrian route from the public entrance of the building of your proposed premises to the public entrance of the nearest church building? Include the unit of measurement in your answer.

0.8 miles Rainbow Bible Church



Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board
Form AB-01: Transfer License Application

Section 4 – Sole Proprietor Ownership Information

This section must be completed by any sole proprietor who is applying for a license. Entities should skip to Section 5.
 If more space is needed, please attach a separate sheet with the required information.
 The following information must be completed for each licensee and each affiliate (spouse).

This individual is an: applicant affiliate

Name:					
Address:					
City:		State:		ZIP:	

This individual is an: applicant affiliate

Name:					
Address:					
City:		State:		ZIP:	

Section 5 – Entity Ownership Information

This section must be completed by any entity, including a corporation, limited liability company (LLC), partnership, or limited partnership, that is applying for a license. Sole proprietors should skip to Section 6.

If more space is needed, please attach a separate sheet with the required information.

- If the applicant is a corporation, the following information must be completed for each *stockholder who owns 10% or more* of the stock in the corporation, and for each *president, vice-president, secretary, and managing officer*.
- If the applicant is a limited liability organization, the following information must be completed for each *member with an ownership interest of 10% or more*, and for each *manager*.
- If the applicant is a partnership, including a limited partnership, the following information must be completed for each *partner with an interest of 10% or more*, and for each *general partner*.

Entity Official:	Holiday Stationstores, LLC				
Title(s):	Sole Member	Phone:		% Owned:	100%
Address:	4567 American Blvd. W.				
City:	Bloomington	State:	MN	ZIP:	55437



Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Entity Official:	Gary Melburn Brant				
Title(s):	Affiliate, Holiday Alaska, LLC	Phone:	952-830-8700	% Owned:	0%
Address:	4567 American Blvd. W.				
City:	Bloomington	State:	MN	ZIP:	55437

Entity Official:	Richard David Johnson				
Title(s):	Affiliate, Holiday Alaska, LLC	Phone:	952-830-8700	% Owned:	0%
Address:	4567 American Blvd. W.				
City:	Bloomington	State:	MN	ZIP:	55437

Entity Official:					
Title(s):		Phone:		% Owned:	
Address:					
City:		State:		ZIP:	

This subsection must be completed by any applicant that is a corporation or LLC. Corporations and LLCs are required to be in good standing with the Alaska Division of Corporations (DOC) and have a registered agent who is an individual resident of the state of Alaska.

DOC Entity #:	82196D	AK Formed Date:	09/10/2003	Home State:	Alaska
Registered Agent:	UNITED STATES CORPORATION COMPANY		Agent's Phone:		
Agent's Mailing Address:	8585 Old Dairy Rd. Ste. 208				
City:	Juneau	State:	AK	ZIP:	99801

Residency of Agent: Yes No

Is your corporation or LLC's registered agent an individual resident of the state of Alaska?



Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 6 – Other Licenses

Ownership and financial interest in other alcoholic beverage businesses:

Yes No

Does any representative or owner named as a transferee in this application have any direct or indirect financial interest in any other alcoholic beverage business that does business in or is licensed in Alaska?

If "Yes", disclose which individual(s) has the financial interest, what the type of business is, and if licensed in Alaska, which license number(s) and license type(s):

Holiday Alaska, LLC; Convenience Store; License #264 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #660 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #2386 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #3282 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #3460 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #3973 - Package Store
 Holiday Alaska, LLC; Convenience Store; License #4156- Package Store

Section 7 – Authorization

Communication with AMCO staff:

Yes No

Does any person other than a licensee named in this application have authority to discuss this license with AMCO staff?

If "Yes", disclose the name of the individual and the reason for this authorization:

Jessica Brown - Holland & Knight, LLP - Counsel
 jessica.brown@hklaw.com, 415-216-6643



Alaska Alcoholic Beverage Control Board
Form AB-01: Transfer License Application

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
alcohol.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Section 8 - Transferor Certifications

Additional copies of this page may be attached, as needed, for the controlling interest of the current licensee to be represented.

I declare under penalty of perjury that the undersigned represents a controlling interest of the current licensee. I additionally certify that I, as the current licensee (either the sole proprietor or the controlling interest of the currently licensed entity) have examined this application, approve of the transfer of this license, and find the information on this application to be true, correct, and complete.

[Handwritten signature of Gary Brant]
Signature of transferor

Gary Brant
Printed name of transferor

Printed name of transferor

Subscribed and sworn to before me this 14th day of November, 2023.

[Handwritten signature of Melissa Duncan]
Signature of Notary Public



Notary Public in and for the State of Indiana

My commission expires: 02/01/2029

[Handwritten signature of Gary Brant]
Signature of transferor

Gary Brant
Printed name of transferor

Printed name of transferor

Subscribed and sworn to before me this 14th day of November, 2023.

[Handwritten signature of Melissa Duncan]
Signature of Notary Public



Notary Public in and for the State of Indiana

My commission expires: 02/01/2029



Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
alcohol.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board
Form AB-01: Transfer License Application

Section 9 - Transferee Certifications

Read each line below, and then sign your initials in the box to the right of each statement:

Initials

I certify that all proposed licensees (as defined in AS 04.11.260) and affiliates have been listed on this application.

[Handwritten initials]

I certify that all proposed licensees have been listed with the Division of Corporations.

[Handwritten initials]

I certify that I understand that providing a false statement on this form or any other form provided by AMCO is grounds for rejection or denial of this application or revocation of any license issued.

[Handwritten initials]

I certify that all licensees, agents, and employees who sell or serve alcoholic beverages or check the identification of a patron will complete an approved alcohol server education course, if required by AS 04.21.025, and, while selling or serving alcoholic beverages, will carry or have available to show a current course card or a photocopy of the card certifying completion of approved alcohol server education course, if required by 3 AAC 304.465.

[Handwritten initials]

I agree to provide all information required by the Alcoholic Beverage Control Board in support of this application.

[Handwritten initials]

I hereby certify that I am the person herein named and subscribing to this application and that I have read the complete application, and I know the full content thereof. I declare that all of the information contained herein, and evidence or other documents submitted are true and correct. I understand that any falsification or misrepresentation of any item or response in this application, or any attachment, or documents to support this application, is sufficient grounds for denying or revoking a license/permit. I further understand that it is a Class A misdemeanor under Alaska Statute 11.56.210 to falsify an application and commit the crime of unsworn falsification.

[Handwritten initials]

[Handwritten signature of Gary Brant]

Signature of transferee

Gary Brant

Printed name



[Handwritten signature of Melissa Duncan]

Signature of Notary Public

Notary Public in and for the State of

Indiana

My commission expires:

02/01/2029

Subscribed and sworn to before me this

14th

November

20

23



Alaska Alcoholic Beverage Control Board Form AB-02: Premises Diagram

Why is this form needed?

A detailed diagram of the proposed licensed premises is required for all liquor license applications, per AS 04.11.260 and 3 AAC 304.185. Your diagram must include dimensions and must show all entrances and boundaries of the premises, walls, bars, fixtures, and areas of storage, service, consumption, and manufacturing. If your proposed premises is located within a building or building complex that contains multiple businesses and/or tenants, please provide an additional page that clearly shows the location of your proposed premises within the building or building complex, along with the addresses and/or suite numbers of the other businesses and/or tenants within the building or building complex.

The second page of this form may not be required. Blueprints, CAD drawings, or other clearly drawn and marked diagrams may be submitted in lieu of the second page of this form. The first page must still be completed, attached to, and submitted with any supplemental diagrams. An AMCO employee may require you to complete the second page of this form if additional documentation for your premises diagram is needed.

This form must be completed and submitted to AMCO's Anchorage office before any license application will be considered complete.

Yes No

I have attached blueprints, CAD drawings, or other supporting documents in addition to, or in lieu of, the second page of this form.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	Holiday Alaska, LLC	License Number:	4198		
License Type:	Package Store				
Doing Business As:	Holiday #650				
Premises Address:	7751 W Parks Hwy				
City:	Wasilla	State:	AK	ZIP:	99623



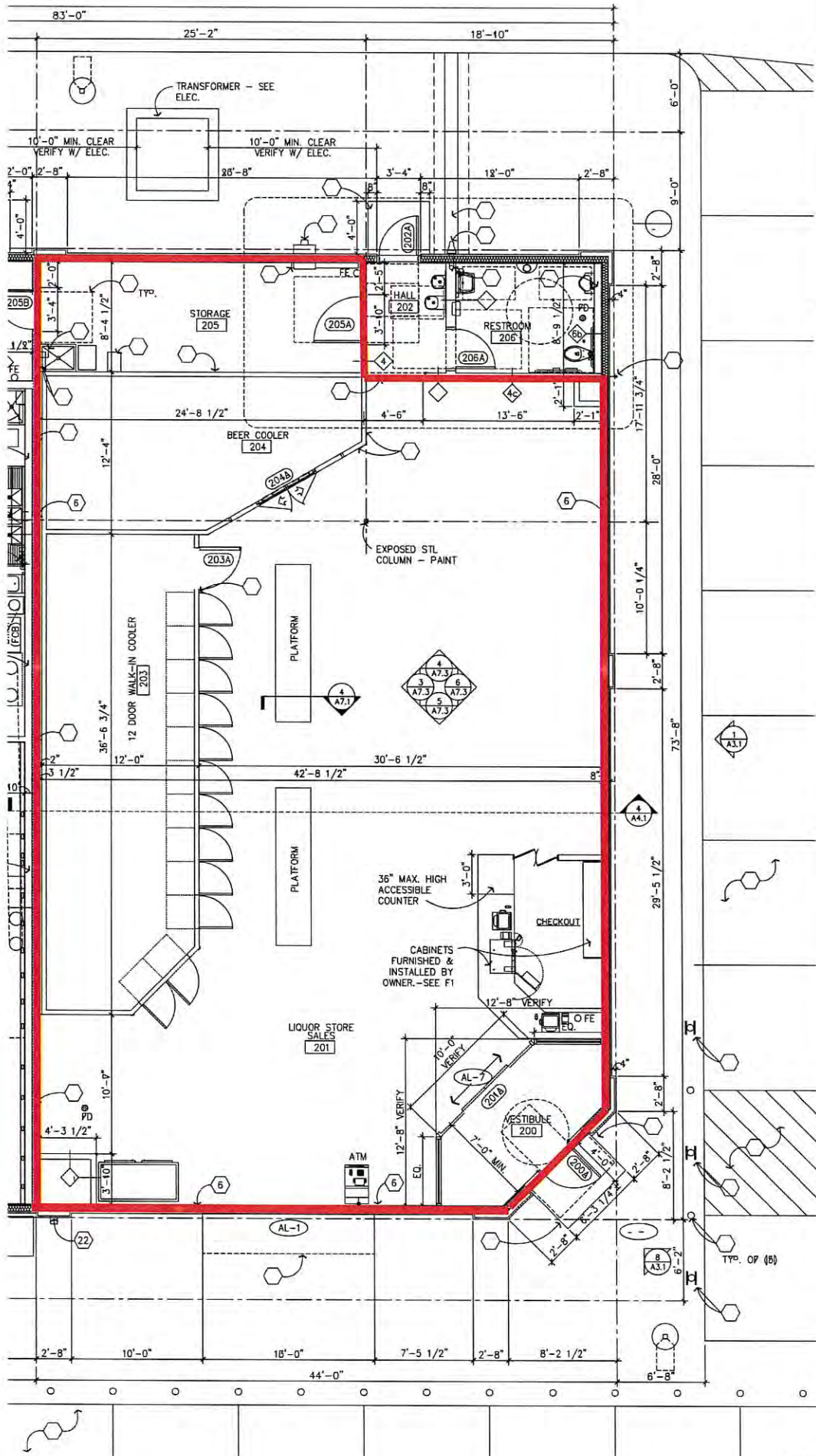
Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
Phone: 907.269.0350

Alaska Alcoholic Beverage Control Board Form AB-02: Premises Diagram

Section 2 – Detailed Premises Diagram

Clearly indicate the boundaries of the premises and the proposed licensed area within that property. Clearly indicate the interior layout of any enclosed areas on the proposed premises. Clearly identify all entrances and exits, walls, bars, and fixtures, and outline in red the perimeter of the areas designated for alcohol storage, service, consumption, and manufacturing. Include dimensions, cross-streets, and points of reference in your drawing. You may attach blueprints or other detailed drawings that meet the requirements of this form.

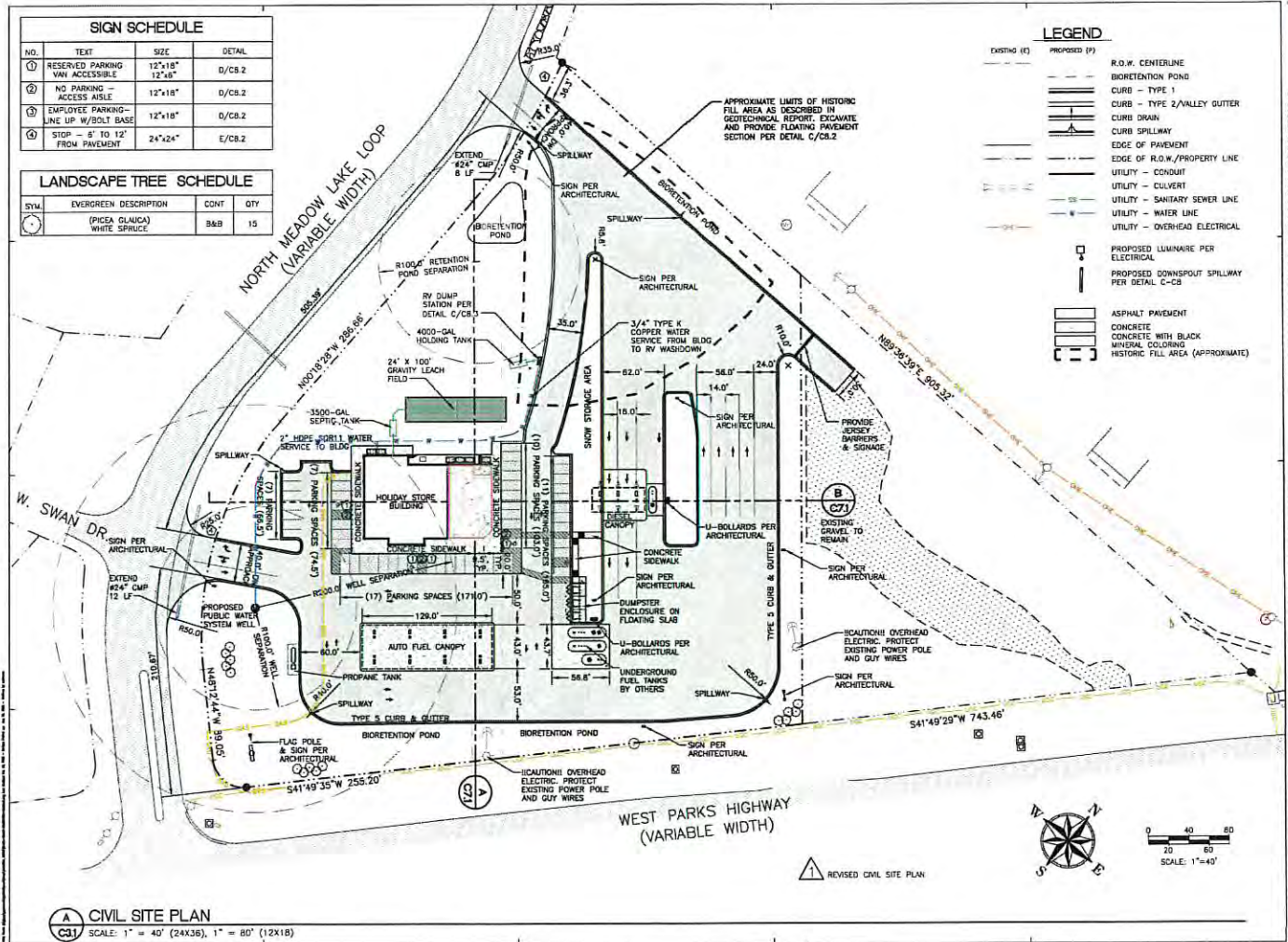
A large, empty rectangular box with a black border, intended for the user to draw a detailed premises diagram. The box is currently blank.



3/16" = 1'-0"



Received by AMCO 12 30 23 NORTH



NELSON ENGINEERING
235 BRADY STREET
WASILLA, ALASKA 99623
907.451.5641
LICENSE NO. 10525

PROFESSIONAL SEAL
STATE OF ALASKA
REGISTERED PROFESSIONAL ENGINEER
NO. 10525
EXPIRES 12/31/2025

PROFESSIONAL IN CHARGE
M2 PROJECT MANAGER
M2 QUALITY CONTROL
M2/MSD SURVEY
M2

PROJECT NAME
CIRCLE K STORE #650
WASILLA ALASKA
7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTNA CO

Holiday
PROJECT NUMBER: 014764.42
SHEET TITLE: CIVIL SITE PLAN
SHEET NUMBER: C-3.1

Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350



Alaska Alcoholic Beverage Control Board

Form AB-07: Public Notice Posting Affidavit

Why is this form needed?

A public notice posting affidavit is required for all liquor license applications. An applicant must give notice of a liquor license application to the public by posting a true copy of the **Form AB-00** (new licenses) or **Form AB-01** (license transfers) for ten (10) days at the location of the proposed licensed premises and one other conspicuous location in the area of the proposed premises, per AS 04.11.310 and 3 AAC 304.125. The public notice must be given within the 60 days immediately preceding filing of the application.

This form must be completed and submitted to AMCO's Anchorage office before any license application will be considered

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	Holiday Alaska, LLC				
License Type:	Package Store				
Doing Business As:	Holiday #650				
Premises Address:	7751 W Parks Hwy				
City:	Wasilla	State:	AK	ZIP:	99623

Section 2 – Certification

I certify that I have met the public notice requirement set forth under AS 04.11.310 by posting a copy of my application for the following 10-day period at the location of the proposed licensed premises and at the following conspicuous location in the area of the proposed premises:

Start Date: 11/29/2023 End Date: 12/11/2023

Other conspicuous location: Wasilla Post Office - 401 Main St., Wasilla, AK 99654


Read the statement below, and then sign your initials in the box to the right of the statement:

Initials

I hereby certify that I am the person herein named and subscribing to this application and that I have read the complete application, and I know the full content thereof. I declare that all of the information contained herein, and evidence or other documents submitted are true and correct. I understand that any falsification or misrepresentation of any item or response in this application, or any attachment, or documents to support this application, is sufficient grounds for denying or revoking a license/permit. I further understand that it is a Class A misdemeanor under Alaska Statute 11.56.210 to falsify an application and commit the crime of unsworn falsification.

Gary Brant

Printed name of licensee


 Signature of licensee

File No. 82196 D

State of Alaska
Department of Community and Economic Development
Division of Banking, Securities and Corporations

CERTIFICATE
OF
INCORPORATION
Business Corporation

The undersigned, as Commissioner of Community and Economic Development of the State of Alaska, hereby certifies that Articles of Incorporation of

HOLIDAY ALASKA, INC.

have been received in this office and have been found to conform to law.

ACCORDINGLY, the undersigned, as Commissioner of Community and Economic Development, and by virtue of the authority vested in me by law, hereby issues this Certificate of Incorporation and attaches hereto the original copy of the Articles of Incorporation.

IN TESTIMONY WHEREOF, I execute this certificate and
affix the Great Seal of the State of Alaska on
SEPTEMBER 10, 2003

Edgar Blatchford

Edgar Blatchford
Commissioner

Filed for Record
State of Alaska

SEP 10 2003

Dept. of Community &
Economic Development

**ARTICLES OF INCORPORATION
OF
HOLIDAY ALASKA, INC.**

These Articles of Incorporation are being filed under the provisions of the Alaska Corporations Code (AS 10.06).

ARTICLE I

Name

The name of this corporation is Holiday Alaska, Inc.

ARTICLE II

Purpose

This corporation is organized for the purpose of transacting any and all lawful business for which corporations may be incorporated under Title 10 of the Alaska Statutes, as amended.

ARTICLE III

Registered Office

The address of the registered office of the corporation is 801 West Tenth Street, Suite 300, Juneau, Alaska 99801, and the name of the registered agent at such address is CT Corporation System.

ARTICLE IV

Alien Affiliates

The corporation has no alien affiliates.

ARTICLE V

Authorized Shares

The total authorized number of shares of the corporation is Twenty-Five Million (25,000,000) shares of common stock, without par value.

ARTICLE VI

Directors

The Board of Directors shall consist of the number of directors designated in the Bylaws. The number of directors may be increased or decreased from time to time by amendment to the Bylaws or by resolution of the shareholders.

ARTICLE VII

Limitation of Liability of Directors

A director will not be personally liable to the corporation or its shareholders for monetary damages for the breach of fiduciary duties as a director, except to the extent such a limitation on liability is prohibited by AS 10.06.210(N), as the same may be hereafter amended.

ARTICLE VIII

Incorporator

The name and address of the incorporator is:

Richard M. Rosston
Dorsey & Whitney LLP
1031 West Fourth Avenue, Suite 600
Anchorage, Alaska 99501

DATED: September 10, 2003.


Richard M. Rosston

**STATEMENT OF SIC CODE
FOR
HOLIDAY ALASKA, INC.**

The SIC code that most closely describes the activities in which the corporation will initially engage is 5500 - Retail Trade: Automotive Dealers and Gasoline Service Stations.

3814168



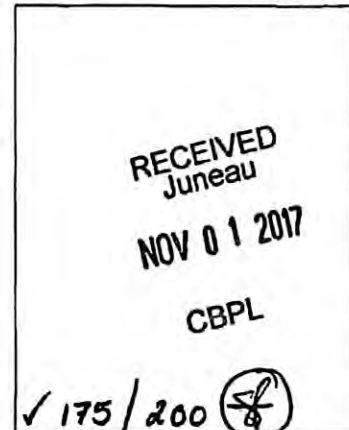
THE STATE
of **ALASKA**

Department of Commerce, Community, and Economic Development
Division of Corporations, Business and Professional Licensing

Corporations Section

State Office Building, 333 Willoughby Avenue, 9th Floor
PO Box 110806, Juneau, AK 99811-0806
Phone: (907) 465-2550 * Fax: (907) 465-2974
Email: corporations@alaska.gov
Website: <http://commerce.alaska.gov/cbpl/corp>

CORP



STATEMENT OF CONVERSION
Specifically for
An Entity with an AK Entity Number
Converting to a Domestic (Alaskan) Limited Liability Company
Under the Alaska Entity Transaction Act AS 10.55.401-10.55.406

\$175.00 Filing Fee

- \$ 25.00 Statement of Conversion Filing Fee (non-refundable) (\$25 Corp Fee)
- \$150.00 Articles of Organization Filing Fee (non-refundable) (\$150 Corp Fee)

NOTICE: The Articles of Organization must be submitted as an attachment.

Pursuant to the provisions of Alaska Statutes 10.55.405, excluding entities stated in AS 10.55.110, a domestic (Alaskan) or foreign (non-Alaskan) entity may convert (change from one type of entity to a different type of entity) to a domestic (Alaskan) limited liability company by submitting the following statement:

ITEM 1: Name of the converting (changing from) entity:

Alaska Entity # (mandatory):

Holiday Alaska, Inc.	82196D
----------------------	--------

State of Domicile (changing from):

Type of Entity (changing from):

Alaska	Business Corporation
--------	----------------------

ITEM 2: Name of the converted (changing to) domestic (Alaskan) limited liability company must contain the words "limited liability company" or the abbreviation of "L.L.C" or "LLC." The word "limited" may be abbreviated as "Ltd." and the word "company" may be abbreviated as "Co." (Note: the name of the limited liability company in Item #2 on the Statement of Conversion must match the name in Article #1 on the Articles of Organization attached to this filing.):

Holiday Alaska, LLC

State of Domicile or Jurisdiction (changing to):

Type of Entity (changing to):

Alaska	Limited Liability Company
--------	---------------------------

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company



RECEIVED
Juneau

NOV 01 2017

ITEM 3: (Optional) The future effective date of conversion, if different from date of filing, must be a specific future date and cannot exceed 90 days from date of filing. Future effective date (mm/dd/yyyy format):
____/____/____.

ITEM 4:

If the converting (changing from) entity is a domestic (Alaskan) entity (listed in Item #1 above), the conversion has been approved in accordance with AS 10.55.401-10.55.406.

-OR-

If the converting (changing from) entity is a foreign (non-Alaskan) entity (listed in Item #1 above), the conversion has been approved by the foreign converting entity in accordance with the laws of its jurisdiction of organization.

ITEM 5: The converted (changing to) entity is a domestic (Alaskan) limited liability company; therefore the text of the converted entity's articles of organization must be attached to this Statement of Conversion. Choose only one of the options below:

Complete the attached Articles of Organization portion of this form.

-OR-

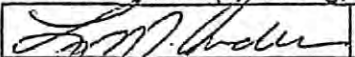
Provide Articles of Organization, which satisfy the requirements of AS 10.50.075 and 10.55.405, as an attachment.

ITEM 6: The Statement of Conversion must be signed on behalf of the converting (changing from) entity (listed in Item #1 above) in the following manner:

- If the converting entity is a corporation, it must be signed by an officer of the corporation.
- If the converting entity is not a corporation, it must be signed by the person authorized by said entity.
- If the converting entity is in the hands of a receiver, trustee, or other court-appointed fiduciary, it must be signed by said fiduciary.

If the converting entity is currently on record with this division (has an AK Entity Number) and the signer is an official of the entity then the signer must be currently on record with this division.

Provide the printed name of the signer, the full title/capacity of the authorized signer, the name of the entity that the individual is representing, and signature of the individual authorized to sign.

	Lynn M. Anderson	Assistant Secretary of Holiday Alaska, Inc.	
Signature	Printed Name	Title and entity that is represented	Date

NOTE - Signatures:

Per AS 10.55.609, persons who sign documents to be filed with the commissioner that are known by the person to be false in material respects are guilty of a class A misdemeanor.

IMPORTANT: Changing Officials

On the date the Statement of Conversion is filed for record all officials currently on record for the converting (changing from) entity (listed in Item #1 on the Statement of Conversion) will be removed from record. The converted (changing to) entity (listed in Item # 2 of the Statement of Conversion) must file a notification of changing officials with this division in the manner and time prescribed in AS 10.50.765. The notification of officials changing maybe filed in conjunction with the Statement of Conversion.

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company

ARTICLES OF ORGANIZATION
Specifically for
Domestic (Alaskan) Limited Liability Company
with Statement of Conversion

Under AS 10.50.075 and the Alaska Transactions Act 10.55.401-10.55.406

RECEIVED
Juneau
NOV 01 2017

CBPL

Pursuant to AS 10.55.405 the converted entity's public organic document must be submitted as an attachment to this Statement of Conversion.

Pursuant to AS10.55.405 the undersigned domestic (Alaskan) limited liability company applies for a Certificate of Organization and, for that purpose, submits the following:

ARTICLE 1: Legal name of the limited liability company must contain the words "limited liability company" or the abbreviation "L.L.C.," or "LLC". The word "limited" may be abbreviated as "Ltd." and the word "company" may be abbreviated as "Co." (Note: the name of the limited liability company in Article #1 on the Articles of Organization must match the name in Item #2 on the Statement of Conversion portion of this filing.):

Holiday Alaska, LLC

ARTICLE 2: The purpose of the company (may include "any lawful") and, separately, the 6 digit NAICS Industry Grouping Code that most clearly describes the initial activities of the company:

Purpose: Any lawful	NAICS code:	4	4	7	1	1	0
---------------------	-------------	---	---	---	---	---	---

ARTICLE 3:

The registered agent for the domestic (Alaskan) limited liability company (listed in Article #1 on the Articles of Organization) is the same agent on record for the converting (changing from) entity (listed in Item #1 on the Statement of Conversion). Per Alaska Statutes the registered agent information may only be updated via a Statement of Change Registered Agent form. The non-refundable filing fee for a Statement of Change is \$25.

ARTICLE 4: Management. Choose only one of the options below:

The limited liability company is managed by its Members.
(There must be at least one member and there are no managers.)

-OR-

The limited liability company is managed by a Manager.
(There must be at least one member and one manager; additionally the manager(s) have sole decision making power within the LLC.)

ARTICLE 5: Optional Provisions and Additional Articles

- Attach additional pages for continuation of optional provisions and/or additional articles.
- Please indicate which article you are continuing and/or insert any desired additional provisions authorized by Alaska Statutes.
- Additional articles should be a continuation of the numbering as it appears on these Articles of Incorporation.

[Empty rectangular box for optional provisions and additional articles]

Attach an additional 8.5" x 11" sheet if necessary.

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company

Alaska Entity #82196D

State of Alaska
Department of Commerce, Community, and Economic Development
Corporations, Business, and Professional Licensing

Certificate of Conversion

The undersigned, as Commissioner of Commerce, Community, and Economic Development of the State of Alaska, hereby certifies that a duly signed and verified filing pursuant to the provisions of Alaska Statutes has been received in this office and has been found to conform to law.

ACCORDINGLY, the undersigned, as Commissioner of Commerce, Community, and Economic Development, and by virtue of the authority vested in me by law, hereby issues this certificate to

HOLIDAY ALASKA, LLC
formerly
HOLIDAY ALASKA, INC



IN TESTIMONY WHEREOF, I execute the certificate and affix the Great Seal of the State of Alaska effective **November 01, 2017**.

A handwritten signature in cursive script that reads "Mike Navarre".

Mike Navarre
Commissioner



THE STATE
of **ALASKA**
Department of Commerce, Community and Economic Development
Division of Corporations, Business and Professional Licensing

COR



Corporations Section
State Office Building, 333 Willoughby Avenue, 9th Floor
PO Box 110806, Juneau, AK 99811-0806
Phone: (907) 465-2550 • Fax: (907) 465-2974
Email: corporations@alaska.gov
Website: Corporations.Alaska.Gov

Statement of Change

Domestic Limited Liability Company (AS 10.50)

- This Statement of Change form for Registered Agents or Registered Agent Address Changes is only for Domestic Limited Liability Companies.
- The Statement of Change will not be filed if the official signing this form does not match an official on record for this entity and/or if your entity's biennial report is not current. To verify your entity information on record, go online to Corporations.Alaska.Gov, *Search Corporations Database*
- Standard processing time for complete and correct filings submitted to this office is approximately 10-15 business days. All filings are reviewed in the date order they are received.
- The information you submit is a public record and will be posted on the State's website.

1. Important: AS 10.50.055-.065

Per AS 10.50.055, each Domestic Limited Liability Company shall (must) continuously (without interruption) maintain in this state (Alaska) a registered agent AND a registered office (with an Alaskan physical location and an Alaskan mailing address) for the purpose of a registered agent's statutory requirements to receive service of processes, notices, or demands required or permitted by law to be served upon the limited liability company.

Failure to meet registered agent requirements could result in involuntary dissolution of the entity's authority to transact business in the State of Alaska. — AS 10.50.408(a)(2),(3)

For more registered agent information go to Corporations.Alaska.Gov, *Registered Agents FAQs*.

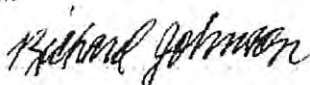
2. Fee: \$25 Nonrefundable Filing Fee (CORF) 3 AAC 16.065(b)

Mail this form and the non-refundable \$25 filing fee in U.S. dollars to the letterhead address. Make the check or money order payable to the State of Alaska, or use the attached credit card payment form.

3. Entity information on Record with the State: AS 10.50.060(1)

Entity Name: Holiday Alaska, LLC

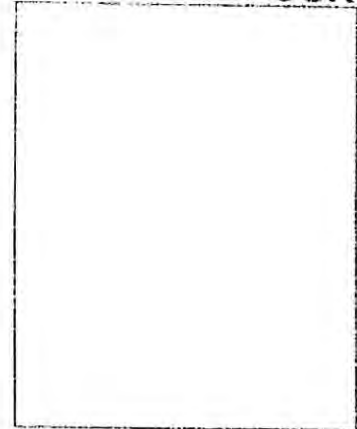
Alaska Entity Number: 82196D

4. PREVIOUS Registered Agent Information on Record with the State:	AS 10.50.060(2), (4)
<p>PREVIOUS Registered Agent Name: <u>CT Corporation System</u></p> <p>PREVIOUS Registered Agent Addresses:</p> <p>→ PHYSICAL Address: <u>9360 Glacier Hwy Ste 202</u></p> <p style="margin-left: 40px;">City: <u>Juneau</u> State: <u>AK (mandatory)</u> ZIP Code: <u>99801</u></p> <p>→ MAILING Address: <u>9360 Glacier Hwy Ste 202</u></p> <p style="margin-left: 40px;">City: <u>Juneau</u> State: <u>AK (mandatory)</u> ZIP Code: <u>99801</u></p>	
5. NEW Registered Agent Information to be Updated with the State:	AS 10.50.060(3), (5)
<p>NEW Registered Agent Name: <u>Dolores Owen</u> <i>(Registered agent cannot be the entity listed in item 3 on Page 1 and cannot be an LLC.)</i></p> <p>If the new Registered Agent is an entity, provide its entity number: _____</p> <p>NEW Registered Agent Addresses:</p> <p>→ PHYSICAL Address: <u>9360 Glacier Highway, Suite 202</u></p> <p style="margin-left: 40px;">City: <u>Juneau</u> State: <u>AK (mandatory)</u> ZIP Code: <u>99801</u></p> <p>→ MAILING Address: <u>9360 Glacier Highway, Suite 202</u></p> <p style="margin-left: 40px;">City: <u>Juneau</u> State: <u>AK (mandatory)</u> ZIP Code: <u>99801</u></p>	
6. Authorization per Alaska Statute:	AS 10.50.060(6)
<p>The registered agent change was authorized by the company's manager, or, if the company is not managed by a manager, by the members. Per AS 10.50.860, a limited liability company is to keep and make available the record of the resolution.</p>	
7. Required Signature:	AS 10.50.840
<p>The Statement of Change must be signed by: a member (per AS 10.50.840.(a)(2)) or a manager (per AS 10.50.840(a)(1)) currently on record; or an attorney-in-fact (per AS 10.50.840(c)). Persons who sign documents filed with the commissioner that are known to the person to be false in material respects are guilty of a class A misdemeanor.</p> <p>Signature: <u></u> Date: <u>01/20/2020</u></p> <p>Printed Name: <u>Richard Johnson</u></p> <p>Title of Authorized Signer: <input type="checkbox"/> Member <input checked="" type="checkbox"/> Manager <input type="checkbox"/> Attorney-in-fact</p> <p><small>If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc, the sole member of ABC LLC</small></p>	



THE STATE
of **ALASKA**
Department of Commerce, Community and Economic Development
Division of Corporations, Business and Professional Licensing

COR



Corporations Section

State Office Building, 333 Willoughby Avenue, 9th Floor
PO Box 110806, Juneau, AK 99811-0806
Phone: (907) 465-2550 • Fax: (907) 465-2974
Email: corporations@alaska.gov
Website: Corporations.Alaska.Gov

Contact Information

- Return this form with your filing
- This information may be used by the Division to assist with processing your attached filings
- This form will not be filed for record, or appear online

Entity Information		Enter your entity information as it appears on this filing.
Entity Name:	Holiday Alaska, LLC	
AK Entity #:	82196D	

Contact Person		Whom may we contact with any questions or problems with this filing?
Company:	Holland & Knight, LLP	
Contact:	Peter Scully	
Mailing Address:	420 L Street, Suite 400 Anchorage State AK 99501	
Phone:	907-263-6347	
Email:	peter.scully@hklaw.com	

Document Return Address		Provide an address for the return of your filed documents.
<input checked="" type="checkbox"/> Return my filings to the address provided ABOVE <input type="checkbox"/> Return my filings to this address provided BELOW		
Company:		
Contact:		
Mailing Address:		

**OPERATING AGREEMENT
OF
HOLIDAY ALASKA, LLC**

This Operating Agreement (this “**Agreement**”) of Holiday Alaska, LLC, an Alaska limited liability company (the “**Company**”), is executed on and as of November 1, 2017 (the “**Effective Time**”), by Holiday Stationstores, Inc., a Minnesota corporation, as the sole member of the Company (the “**Sole Member**”) as of the Effective Time. The Sole Member adopts the following as the operating agreement of the Company:

AGREEMENT

1. **Name.** The name of the Company is Holiday Alaska, LLC.
2. **Operating Agreement.** Except as otherwise required by the Alaska Revised Limited Liability Company Act (Alaska Stat. § 10.50.010 *et seq.*) (the “**Act**”), the Sole Member intends that this Agreement shall govern all aspects of the Company’s business, activities and affairs. The Sole Member acknowledges and agrees that this Agreement, including any exhibits hereto, in each case as hereafter amended from time to time in accordance with its terms, shall be the Company’s sole operating agreement for purposes of Sections 10.50.095 and 10.50.990(17) of the Act, and at no time shall any operating agreement be created by oral or implied means. The Sole Member intends that, during the entire term of this Agreement, the provisions of this Agreement shall, to the maximum extent permitted by law, supersede any provisions of the Act, as they now exist or as may be subsequently amended or restated, that are inconsistent or conflict with the provisions of this Agreement.
3. **Members.** The Sole Member is the sole member of the Company.
4. **Limited Liability.** To the fullest extent permitted by applicable law, the debts, obligations, or other liabilities of the Company, whether arising in contract, tort or otherwise, (a) are solely the debts, obligations or other liabilities of the Company, and (b) shall not become the debts, obligations or other liabilities of the Sole Member or any officer or authorized person unless expressly assumed by such party; provided that any repeal of this provision as a matter of law or any modification of this subpart shall be prospective only, and shall not adversely affect any limitation on the personal liability of the Sole Member or any officer or authorized person existing at the time of such repeal or modification.
5. **Interest in the Company.** The Sole Member is deemed admitted as a member of the Company upon execution and delivery of this Agreement. The Sole Member owns 100% of the issued and outstanding ownership interest in the Company. For purposes of this Agreement, the Sole Member’s interest includes all of the Sole Member’s rights and interests in the Company in the Sole Member’s capacity as the sole member of the Company, as provided in the Company’s articles of organization, this Agreement and the Act, including the Sole Member’s interest in the governance, distributions, capital, income, gain, deductions, losses, and credits of the Company.
6. **Capital Contributions.** The Sole Member is not required to, but may, make capital contributions to the Company. Any such contributions shall be recorded in the Company’s books and records.
7. **Allocation of Profits and Losses.** The Company’s profits and losses will be allocated in accordance with the ownership interest of the members.

8. **Distributions.** The distributions shall be made to the Sole Member at the times and in the aggregate amounts determined by the Sole Member. Notwithstanding any provision to the contrary contained in this Agreement, the Company shall not make a distribution if such distribution would violate the Act or any other applicable law.

9. **Member Management.** The management and conduct of the Company shall be vested in the Sole Member. In accordance with the Section 10.50.110(a) of the Act, the Sole Member shall have the authority to bind the Company and shall have the power to do any and all acts necessary, convenient or incidental to or for the furtherance of the purposes of the Company, including all powers, statutory or otherwise, possessed by members of a limited liability company under the laws of the State of Alaska.

10. **Delegation of Authority.**

(a) **Officers.** The Sole Member shall have the authority to appoint individual persons as "officers" to be agents and representatives of the Company and to delegate to any such person all or any of the Sole Member's powers pursuant to this Agreement. Any delegation pursuant to this Section 10 may be revoked at any time by the Sole Member. Notwithstanding anything to the contrary in this Agreement, no provision in this Agreement granting any authority to any officer of the Company shall limit the authority of the Sole Member to act on behalf of the Company in any capacity under applicable law.

(b) **Further Delegation.** Unless prohibited by the Sole Member, an officer elected or appointed by the Sole Member may delegate some or all of the duties and powers of such office to other persons.

(c) **Term of Office.** Each officer shall hold office until a successor has been appointed by the Sole Member, or until such officer's death, resignation, or removal from office.

(d) **Removal and Vacancies.** Any officer or agent elected or appointed by the Sole Member shall hold office at the pleasure of the Sole Member and may be removed, with or without cause, at any time by the Sole Member, subject to the terms of this Agreement. Any vacancy in an office of the Company shall be filled by action of the Sole Member.

11. **Right to Indemnification.** To the fullest extent permitted by applicable law, including Section 10.50.148 of the Act, the Company shall indemnify, hold harmless and advance expenses to each of the Sole Member, the Sole Member's affiliates, directors, officers, employees, members, managers, partners, shareholders, assigns, representatives and agents and any officer duly appointed and acting on behalf of the Company in his or her capacity as an officer (each, an "**Indemnified Party**" and collectively, the "**Indemnified Parties**") from and against and with respect to any and all losses, expenses, damages, liabilities, claims, demands or other amounts paid in settlement, sustained, incurred or suffered by reason of any acts or omissions or alleged acts or omissions as the Sole Member, an affiliate, director, officer, employee, member, manager, partner, shareholder, assign, representative or agent of the Sole Member, an officer duly appointed and acting on behalf of the Company in his or her capacity as an officer, as applicable, or in connection with any claim or proceeding arising out of or relating to the business or the operation of the Company, including judgments, settlements, penalties, fines or expenses incurred in a proceeding to which such Indemnified Party is a party or threatened to be made a party. The Sole Member's liability to the Company for money damages is eliminated and limited to the fullest extent permitted by applicable law, including the Act. If applicable law, including the Act, is hereafter amended to authorize the further elimination or limitation of the liability of the Sole Member then, without requiring any action by the members, the liability of such Indemnified Party or Indemnified Parties shall be further limited to the fullest extent permitted by the amended applicable law. Any repeal of this

provision as a matter of law or any modification of this subpart shall be prospective only, and shall not adversely affect any limitation on the personal liability of an Indemnified Party existing at the time of such repeal or modification.

12. **Transfers.** The Sole Member may transfer in whole or in part its interest in the Company. If the Sole Member transfers any part of its interest in the Company, the transferee shall be admitted to the Company upon such transferee's execution of an instrument signifying its agreement to be bound by the terms and conditions of this Agreement. Any such transferee acknowledges that this Agreement, unless amended to accommodate multiple members, contemplates only one member and the Sole Member shall have automatically become the sole manager in a manager-managed limited liability company (as defined in the Act) for all purposes until such time as all the members enter into a new operating agreement. If the Sole Member transfers all of its interest in the Company, such admission shall be deemed effective immediately prior to the transfer, and, immediately following such admission, the transferor member shall cease to be a member of the Company.

13. **Other Business.** Nothing in this Agreement shall prevent the Sole Member from engaging in activities that may be competitive with the Company. The Sole Member may engage in or possess an interest in other business ventures of every kind and description, independently or with others. The Company shall not have any rights in or to such independent ventures or the income or profits therefrom by virtue of this Agreement.

14. **Dissolution.** Notwithstanding Section 10.50.400 of the Act, the Company shall be dissolved upon the first to occur of the following events: (a) the approval of the Sole Member; or (b) the entry of a decree of judicial dissolution permitted under Section 10.50.405 of the Act. To the full extent permitted by applicable law, the forgoing events that cause dissolution of the Company shall be the exclusive events that cause the dissolution of the Company. In the event of dissolution, the Company shall be wound up and terminated in accordance with Section 10.50.415 of the Act.

15. **Fiscal Year.** The initial fiscal year of the Company shall end December 31, 2017; thereafter the Company's fiscal year shall begin the first day of January and shall end on the last day of December.

16. **Entire Agreement.** This Agreement constitutes the entire agreement of the member(s) with respect to the subject matter hereof and supersedes any and all other prior agreements with respect to the subject matter hereof. The heirs, executors, administrators, legal or personal representatives, successors and/or assigns of each member shall be bound by this Agreement and shall be obligated to take any further action necessary or proper to fulfillment hereof.

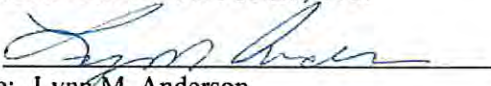
17. **Amendments.** Any amendment to this Agreement shall be adopted and be effective as an amendment hereto if it is approved in writing by the Sole Member.

18. **Governing Law.** This Agreement, and all rights and remedies hereunder, shall be governed by, and construed under, the laws of the State of Alaska (without regard to conflict of laws principles).

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, has executed this Agreement to be effective as of the date first above stated.

SOLE MEMBER:

HOLIDAY STATIONSTORES, INC.

By: 

Name: Lynn M. Anderson

Its: Assistant Secretary

AK Entity #: 82196D
 Date Filed: 01/29/2021
 State of Alaska, DCCED



THE STATE
 of **ALASKA**
 Department of Commerce, Community and Economic Development
 Division of Corporations, Business and Professional Licensing



COR

FOR DIVISION USE ONLY

RECEIVED
Juneau
JAN 29 2021
CBPL

✓ 25 kg

Corporations Section
 State Office Building, 333 Willoughby Avenue, 9th Floor
 PO Box 110806, Juneau, AK 99811-0806
 Phone: (907) 465-2550 • Fax: (907) 465-2974
 Email: corporations@alaska.gov
 Website: Corporations.Alaska.Gov

Statement of Change

Domestic Limited Liability Company (AS 10.50)

- This Statement of Change form for Registered Agents or Registered Agent Address Changes is only for Domestic Limited Liability Companies.
- The Statement of Change will not be filed if the official signing this form does not match an official on record for this entity and/or if your entity's biennial report is not current. To verify your entity information on record, go online to Corporations.Alaska.Gov, *Search Corporations Database*
- Standard processing time for complete and correct filings submitted to this office is approximately 10-15 business days. All filings are reviewed in the date order they are received.
- The information you submit is a public record and will be posted on the State's website.

1. Important:	AS 10.50.055-.065
<p>Per AS 10.50.055, each Domestic Limited Liability Company shall (must) continuously (without interruption) maintain in this state (Alaska) a registered agent AND a registered office (with an Alaskan physical location and an Alaskan mailing address) for the purpose of a registered agent's statutory requirements to receive service of processes, notices, or demands required or permitted by law to be served upon the limited liability company.</p> <p>Failure to meet registered agent requirements could result in involuntary dissolution of the entity's authority to transact business in the State of Alaska. — AS 10.50.408(a)(2),(3)</p> <p>For more registered agent information go to Corporations.Alaska.Gov, <i>Registered Agents FAQs</i>.</p>	

2. Fee:	<input checked="" type="checkbox"/> \$25 Nonrefundable Filing Fee (CORF)	3 AAC 16.065(b)
Mail this form and the non-refundable \$25 filing fee in U.S. dollars to the letterhead address. Make the check or money order payable to the State of Alaska, or use the attached credit card payment form.		

3. Entity Information on Record with the State:	AS 10.50.060(1)
Entity Name: <u>HOLIDAY ALASKA, LLC</u>	
Alaska Entity Number: <u>82196D</u>	

4. PREVIOUS Registered Agent Information on Record with the State: AS 10.50.060(2), (4)

PREVIOUS Registered Agent Name: DOLORES OWENS **RECEIVED**
Juneau

PREVIOUS Registered Agent Addresses: **JAN 29 2021**

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202 **CBPL**

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Hwy Ste 202

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

5. NEW Registered Agent Information to be Updated with the State: AS 10.50.060(3), (5)

NEW Registered Agent Name: Gloria Nash
(Registered agent cannot be the entity listed in Item 3 on Page 1 and cannot be an LLC.)

If the new Registered Agent is an entity, provide its entity number: _____

NEW Registered Agent Addresses:

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Hwy Ste 202

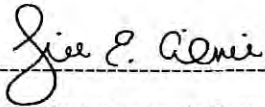
City: JUNEAU State: AK (mandatory) ZIP Code: 99801

6. Authorization per Alaska Statute: AS 10.50.060(6)

The registered agent change was authorized by the company's manager, or, if the company is not managed by a manager, by the members. Per AS 10.50.860, a limited liability company is to keep and make available the record of the resolution.

7. Required Signature: AS 10.50.840

The Statement of Change must be signed by: a member (per AS 10.50.840.(a)(2)) or a manager (per AS 10.50.840(a)(1)) currently on record; or an attorney-in-fact (per AS 10.50.840(c)). Persons who sign documents filed with the commissioner that are known to the person to be false in material respects are guilty of a class A misdemeanor.

Signature:  Date: 10/20/2020

Printed Name: Jill Cilmi, Attorney in Fact on behalf of Richard D. Johnson, Manager of Holiday Stationstores, LLC

Title of Authorized Signer: Member Manager Attorney-in-fact

If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc. the sole member of ABC LLC.

RECEIVED
Juneau

JAN 29 2021

CBPL

ENTITIES COVERED BY POWER OF ATTORNEY
OF RICHARD D. JOHNSON, MANAGER


Cass Oil, LLC
Erickson Petroleum, LLC
Holiday Alaska, LLC
Holiday Diversified Services, LLC
Holiday/Cedar Avenue LLC
Holiday/Corman LLC
Holiday/Maple Grove LLC
Holiday/Otsego LLC
Holiday/Rogers LLC
Holiday Stationstores, LLC
Holiday Stationstores NW, LLC
Independent Diversified Transportation, LLC
Indianhead Oil Co., LLC
Ironwood Oil, LLC
Lyndale Terminal, LLC
Newport Terminal, LLC
Rocky Mountain Oil, LLC

A
L
A
S
K
A

2019-014826-0

Recording Dist: 311 - Palmer
7/16/2019 11:15 AM Pages: 1 of 4



 <p style="text-align: center;">STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p style="text-align: center;">WARRANTY DEED</p> <p><i>ms94802</i></p>	<p>PROJECT NAME: <u>PARKS HIGHWAY MP 48.8 TO 52.3 RECONSTRUCTION</u></p> <p>STATE PROJECT #: <u>Z543730000</u></p> <p>FEDERAL-AID PROJECT #: <u>0A41029</u></p> <p>PARCEL #: <u>126</u></p>
---	---

THE GRANTOR, HOLIDAY ALASKA, LLC, AN ALASKA LIMITED LIABILITY COMPANY FORMERLY KNOWN AS HOLIDAY ALASKA, INC., whose mailing address is 4567 American Boulevard W., Bloomington, MN 55437, for and in consideration of TEN DOLLARS, and other valuable consideration, in hand paid, conveys and warrants to the GRANTEE, STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, whose mailing address is P.O. Box 196900, Anchorage, Alaska 99519-6900, the following-described real estate, located in the State of Alaska:

That portion of:

That portion of the Southwest one-quarter of the Northeast one-quarter (SW1/4 NE1/4) of Section 9, Township 17 North, Range 2 West, of the Seward Meridian, located in the Palmer Recording District, Third Judicial District, State of Alaska, more particularly described as follows:

Beginning at the center-North one-sixteenth corner of said Section 9, being identical to the Southwest corner of Rainbow Ridge Subdivision, monumented with a 3 inch iron pipe with 3-1/2 inch brass cap marked "232-S NE 1/16 SEC 9 1970"; thence South 41°44'38" E 754.92 feet to a point on the Northwesterly right-of-way line of the George Parks Highway monumented with a 5/8 inch rod with a 1-1/2 inch aluminum cap marked "3142-S Lot 1 Lot 2 1996"; thence along said right-of-way line South 41°59'40" W 747.12 feet to the Southeast corner of Lot 1, Ralph Kilbourne Subdivision monumented with a 3 inch aluminum cap marked "232-S Lot 1 KILB SUBD 1979"; thence along the East boundary of said Ralph Kilbourne Subdivision North 00°06'43" W 132.52 feet to a 5/8 inch iron rod; thence continuing along said East boundary North 00°07'57" W 296.15 feet to a 3/4 inch iron pipe located at the Northeast corner of said Ralph Kilbourne Subdivision being identical to the Southeast corner of End of the Rainbow Subdivision; thence along the East boundary of said End of the Rainbow Subdivision North 00°09'41" W 525.09 feet to a 3/4 inch iron pipe located at the Northeast corner of said End of the Rainbow Subdivision; thence North 00°07'06" W 164.78 feet to the point of beginning,

Filed for Record at the Request of and Return to:
State of Alaska
DOT&PF, ROW Engineering
PO Box 196900
Anchorage, AK 99519-6900
State Business-No Charge

CERTIFICATE OF ACCEPTANCE

THIS IS TO CERTIFY that the **STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**, Grantee herein, acting by and through its Commissioner, hereby accepts for public purposes the real property, or interest therein, described in this instrument and consents to the recordation thereof:

IN WITNESS WHEREOF, I have hereunto set my hand this 3 day of July, 2019.

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

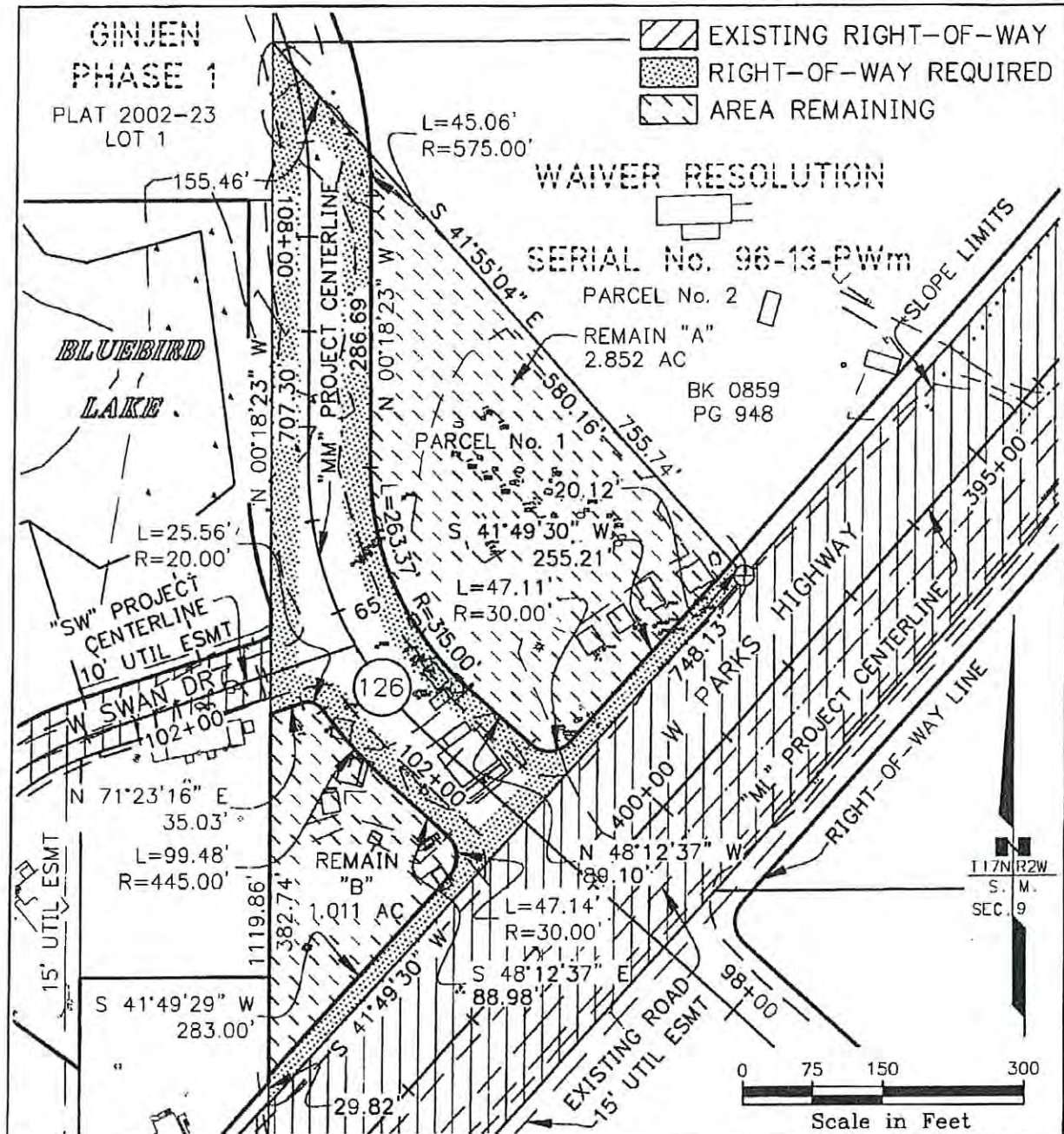
By: RVLL
For the Commissioner
RV

25A-R620 (Rev 09-01-06)
Region: Central

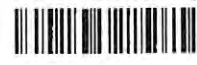
Project Number: 0A41029/Z543730000
Parks Highway MP 48.8 to 52.3 Reconstruction

Parcel No.: 126
Page 3 of 4





STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
RIGHT-OF-WAY REQUIRED FOR PARKS HIGHWAY, MP 48.8-52.3 PITTMAN ROAD TO BIG LAKE ROAD OA41029/Z543730000	OWNER'S INITIAL <u> </u> ATTACHED TO <u>Warranty Deed</u> PAGE <u>4</u> OF <u>4</u> DATED <u>6/17/2019</u>
GROSS TAKE <u>2.588</u> AC NET TAKE <u>2.588</u> AC DRAWN BY <u>JCF/AFF</u> REMAIN <u>3.863</u> AC	
DATE <u>Nov 2016</u> PARCEL NO. 126	





THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

**Department of Commerce,
Community, and Economic
Development**

ALCOHOL & MARIJUANA CONTROL OFFICE

550 West Seventh Avenue, Suite 1600
Anchorage, AK 99501
Main: 907.269.0350

May 11, 2022

Holiday Alaska, LLC
4567 American Boulevard W
Bloomington, MN 55437

Re: Holiday #650, 4198

Dear Holiday Alaska, LLC:

AMCO is currently wrapping up the 2023-2024 renewal cycle, however there is a fraction of applications that may not be deemed complete before May 29, 2023 when the original extension letter expires. **Therefore, this letter serves as an additional temporary extension of your 2021-2022 license so you may continue to operate beyond February 28, 2023, while your application is pending review by an examiner.**

When your renewal application is reviewed, you will be contacted either to let you know your application is incomplete or that your application has been deemed complete. If the application is deemed complete, you will receive a temporary 2023-2024 license that will allow you to continue to operate while your renewal application goes through the process of ABC Board consideration, local government approval, etc. If your application is determined to be incomplete, an examiner will attempt to contact you by telephone or email. If an examiner is unable to contact you, an "incomplete letter" will be emailed to the contact email provided on the application.

**This additional temporary extension will expire at 11:59 pm on Monday, August 27, 2023,
and may be rescinded at any time by the AMCO Director or the ABC Board.**

Please monitor both your regular email and your junk/spam email folders and respond in a timely manner as there will be strict deadlines to submit corrections to our office.

Please print and post this letter next to your 2021-2022 license.

ALASKA ALCOHOL & MARIJUANA CONTROL OFFICE

A handwritten signature in cursive script that reads "Joan M. Wilson".


By: Joan Wilson
Director

A
L
A
S
K
A

2019-014826-0

Recording Dist: 311 - Palmer
7/16/2019 11:15 AM Pages: 1 of 4



 <p style="text-align: center;">STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p style="text-align: center;">WARRANTY DEED</p> <p style="text-align: center;"><i>ms94802</i></p>	<p>PROJECT NAME: <u>PARKS HIGHWAY MP 48.8 TO 52.3 RECONSTRUCTION</u></p> <p>STATE PROJECT #: <u>Z543730000</u></p> <p>FEDERAL-AID PROJECT #: <u>0A41029</u></p> <p>PARCEL #: <u>126</u></p>
---	---

THE GRANTOR, **HOLIDAY ALASKA, LLC, AN ALASKA LIMITED LIABILITY COMPANY FORMERLY KNOWN AS HOLIDAY ALASKA, INC.**, whose mailing address is 4567 American Boulevard W., Bloomington, MN 55437, for and in consideration of TEN DOLLARS, and other valuable consideration, in hand paid, conveys and warrants to the GRANTEE, **STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES**, whose mailing address is P.O. Box 196900, Anchorage, Alaska 99519-6900, the following-described real estate, located in the State of Alaska:

That portion of:

That portion of the Southwest one-quarter of the Northeast one-quarter (SW1/4 NE1/4) of Section 9, Township 17 North, Range 2 West, of the Seward Meridian, located in the Palmer Recording District, Third Judicial District, State of Alaska, more particularly described as follows:

Beginning at the center-North one-sixteenth corner of said Section 9, being identical to the Southwest corner of Rainbow Ridge Subdivision, monumented with a 3 inch iron pipe with 3-1/2 inch brass cap marked "232-S NE 1/16 SEC 9 1970"; thence South 41°44'38" E 754.92 feet to a point on the Northwesterly right-of-way line of the George Parks Highway monumented with a 5/8 inch rod with a 1-1/2 inch aluminum cap marked "3142-S Lot 1 Lot 2 1996"; thence along said right-of-way line South 41°59'40" W 747.12 feet to the Southeast corner of Lot 1, Ralph Kilbourne Subdivision monumented with a 3 inch aluminum cap marked "232-S Lot 1 KILB SUBD 1979"; thence along the East boundary of said Ralph Kilbourne Subdivision North 00°06'43" W 132.52 feet to a 5/8 inch iron rod; thence continuing along said East boundary North 00°07'57" W 296.15 feet to a 3/4 inch iron pipe located at the Northeast corner of said Ralph Kilbourne Subdivision being identical to the Southeast corner of End of the Rainbow Subdivision; thence along the East boundary of said End of the Rainbow Subdivision North 00°09'41" W 525.09 feet to a 3/4 inch iron pipe located at the Northeast corner of said End of the Rainbow Subdivision; thence North 00°07'06" W 164.78 feet to the point of beginning,

Filed for Record at the Request of and Return to:
State of Alaska
DOT&PF, ROW Engineering
PO Box 196900
Anchorage, AK 99519-6900
State Business-No Charge

25A-R620 (Rev 09-01-06)
Region: Central

Project Number: 0A41029/Z543730000
Parks Highway MP 48.8 to 52.3 Reconstruction

Parcel No.: 126
Page 1 of 4

which lies within the right of way lines of Alaska Project No. Z543730000, delineated as to said tract of land on the plat attached hereto and made a part hereof as Page 4 of this instrument and designated as Parcel No. 126. Said parcel, containing 112,733 square feet, more or less, in addition to existing right-of-way, is hereby conveyed to the STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES.

Dated this 17 day of June, 2019.

Holiday Alaska, LLC

BY: Richard D. Johnson
Richard D. Johnson
Vice President Operations

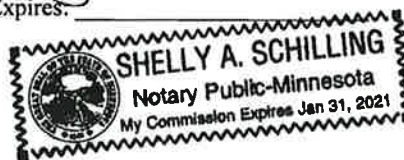
CORPORATE ACKNOWLEDGMENT

STATE OF MINNESOTA)
 : ss
County of Hennepin)

On this 17th day of June, 2019, before me, the undersigned, a Notary Public in and for the State of Minnesota, personally appeared Richard D. Johnson, Vice President Operations, on behalf of Holiday Alaska, LLC, the Grantor, known to me to be the identical individual who executed the foregoing instrument, and acknowledged to me that they executed the same as the free and voluntary act of said company, with full authority to do so and with full knowledge of its contents, for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year above written.

[Signature]
Notary Public in and for the State of Minnesota
My Commission Expires: _____



CERTIFICATE OF ACCEPTANCE

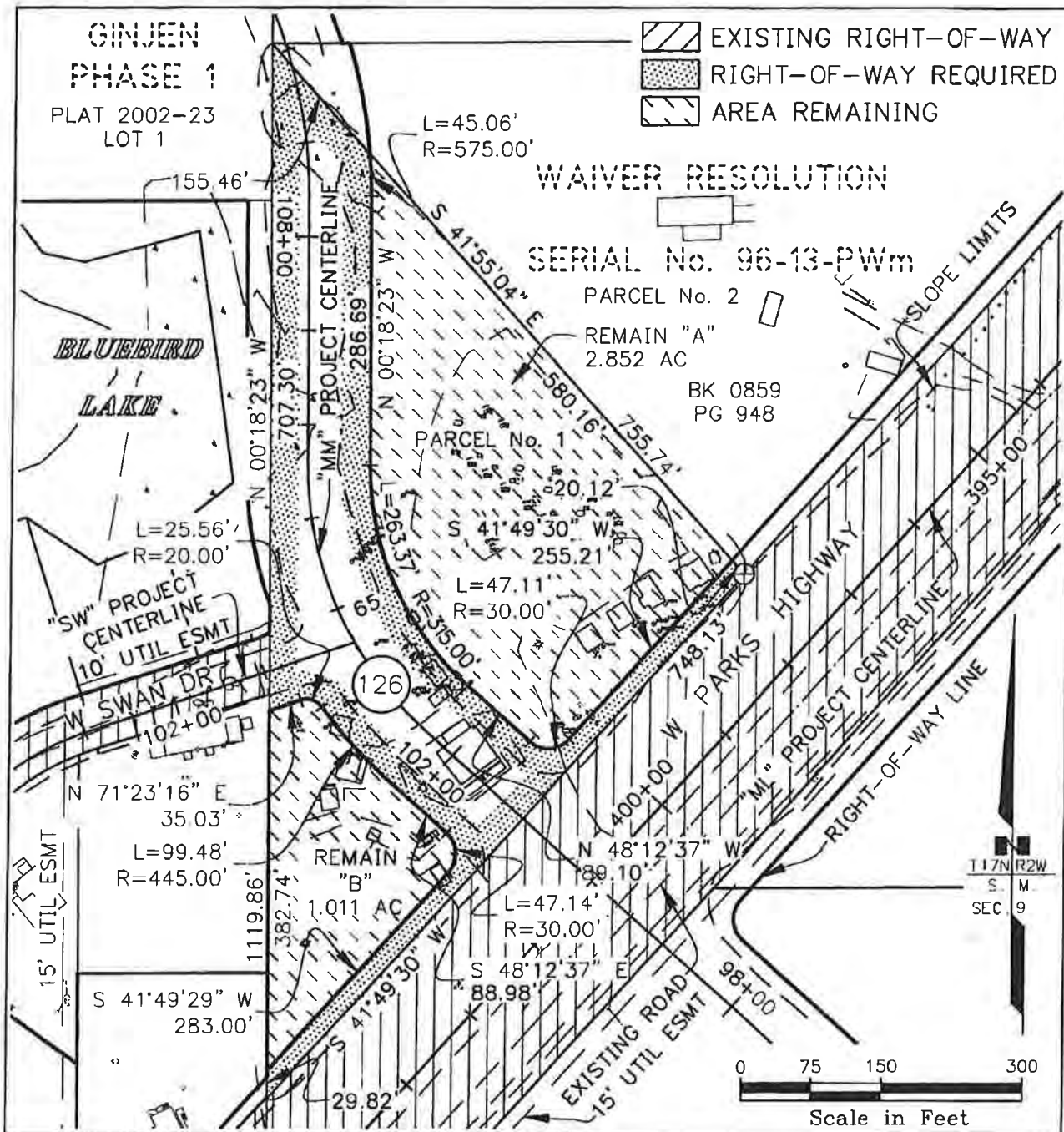
THIS IS TO CERTIFY that the **STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**, Grantee herein, acting by and through its Commissioner, hereby accepts for public purposes the real property, or interest therein, described in this instrument and consents to the recordation thereof:

IN WITNESS WHEREOF, I have hereunto set my hand this 3 day of July, 2019.

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

By: R. V. L. L.
For the Commissioner
DB





STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
RIGHT-OF-WAY REQUIRED FOR PARKS HIGHWAY, MP 48.8-52.3 PITTMAN ROAD TO BIG LAKE ROAD OA41029 / Z543730000	OWNER'S INITIAL <u> </u> ATTACHED TO <u>Warranty Deed</u> PAGE <u>4</u> OF <u>4</u> DATED <u>6/17/2019</u>
GROSS TAKE _____ 2.588 AC NET TAKE _____ 2.588 AC DRAWN BY <u>JCF/AFF</u> REMAIN _____ 3.863 AC DATE <u>Nov 2016</u> PARCEL NO. 126	





Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Why is this form needed?

This transfer license application form is required for all individuals or entities seeking to apply for the transfer of ownership and/or location of an existing liquor license. Applicants should review **Title 04 of Alaska Statutes** and **Chapter 304 of the Alaska Administrative Code**. All fields of this form must be completed, per AS 04.11.260, AS 04.11.280, AS 04.11.290, and 3 AAC 304.105.

This form must be completed and submitted to AMCO's Anchorage office, along with all other required forms and documents, before any license application will be considered complete.

Section 1 – Transferor Information

Enter information for the **current** licensee and licensed establishment.

Licensee:	Holiday Alaska, LLC	License #:	4198
License Type:	Package Store	Statutory Reference:	AS 04.11.150
Doing Business As:	Holiday #650		
Premises Address:	7383 W Parks Hwy		
City:	Wasilla	State:	AK
		ZIP:	99623
Local Governing Body:	Matanuska-Susitna Boroguh		

Transfer Type:

- Regular transfer
- Transfer with security interest
- Involuntary retransfer

OFFICE USE ONLY

Complete Date:		Transaction #:	
Board Meeting Date:		License Years:	
Issue Date:		Examiner:	



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 2 – Transferee Information

Enter information for the **new** applicant and/or location seeking to be licensed.

Licensee:	Holiday Alaska, LLC			
Doing Business As:	Holiday #650			
Premises Address:	7751 W Parks Hwy			
City:	Wasilla	State:	AK	ZIP: 99623
Community Council:	Matanuska-Susitna Boroguh			

Mailing Address:	PO Box 347			
City:	Columbus	State:	IN	ZIP: 47202

Designated Licensee:	Gary Brant		
Contact Phone:	952-830-8700	Business Phone:	952-830-8046
Contact Email:	gary.brant@holidaycompanies.com		

Seasonal License? Yes No If "Yes", write your six-month operating period: _____

Section 3 – Premises Information

Premises to be licensed is:

an existing facility a new building a proposed building

The next two questions must be completed by beverage dispensary (including tourism) and package store applicants only:

What is the distance of the shortest pedestrian route from the public entrance of the building of your proposed premises to the outer boundaries of the nearest school grounds? Include the unit of measurement in your answer.

0.7 miles American Charter School

What is the distance of the shortest pedestrian route from the public entrance of the building of your proposed premises to the public entrance of the nearest church building? Include the unit of measurement in your answer.

0.8 miles Rainbow Bible Church

230 of 446
 Alcohol and Marijuana Control Office
 550 W 7th Avenue, Suite 1600
 Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
 Phone: 907.269.0350



Alaska Alcoholic Beverage Control Board
Form AB-01: Transfer License Application

Section 4 – Sole Proprietor Ownership Information

This section must be completed by any sole proprietor who is applying for a license. Entities should skip to Section 5.
 If more space is needed, please attach a separate sheet with the required information.
 The following information must be completed for each licensee and each affiliate (spouse).

This individual is an: applicant affiliate

Name:				
Address:				
City:	State:	ZIP:		

This individual is an: applicant affiliate

Name:				
Address:				
City:	State:	ZIP:		

Section 5 – Entity Ownership Information

This section must be completed by any entity, including a corporation, limited liability company (LLC), partnership, or limited partnership, that is applying for a license. Sole proprietors should skip to Section 6.
 If more space is needed, please attach a separate sheet with the required information.

- If the applicant is a corporation, the following information must be completed for each *stockholder who owns 10% or more* of the stock in the corporation, and for each *president, vice-president, secretary, and managing officer*.
- If the applicant is a limited liability organization, the following information must be completed for each *member with an ownership interest of 10% or more*, and for each *manager*.
- If the applicant is a partnership, including a limited partnership, the following information must be completed for each *partner with an interest of 10% or more*, and for each *general partner*.

Entity Official:	Holiday Stationstores, LLC			
Title(s):	Sole Member	Phone:	% Owned:	100%
Address:	4567 American Blvd. W.			
City:	Bloomington	State:	MN	ZIP: 55437



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Entity Official:	Gary Melburn Brant				
Title(s):	Affiliate, Holiday Alaska, LLC	Phone:	952-830-8700	% Owned:	0%
Address:	4567 American Blvd. W.				
City:	Bloomington	State:	MN	ZIP:	55437

Entity Official:	Richard David Johnson				
Title(s):	Affiliate, Holiday Alaska, LLC	Phone:	952-830-8700	% Owned:	0%
Address:	4567 American Blvd. W.				
City:	Bloomington	State:	MN	ZIP:	55437

Entity Official:					
Title(s):		Phone:		% Owned:	
Address:					
City:		State:		ZIP:	

This subsection must be completed by any applicant that is a corporation or LLC. Corporations and LLCs are required to be in good standing with the Alaska Division of Corporations (DOC) and have a registered agent who is an individual resident of the state of Alaska.

DOC Entity #:	82196D	AK Formed Date:	09/10/2003	Home State:	Alaska
Registered Agent:	UNITED STATES CORPORATION COMPANY		Agent's Phone:		
Agent's Mailing Address:	8585 Old Dairy Rd. Ste. 208				
City:	Juneau	State:	AK	ZIP:	99801

Residency of Agent: Yes No

Is your corporation or LLC's registered agent an individual resident of the state of Alaska?



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 6 – Other Licenses

Ownership and financial interest in other alcoholic beverage businesses:

Yes No

Does any representative or owner named as a transferee in this application have any direct or indirect financial interest in any other alcoholic beverage business that does business in or is licensed in Alaska?

If "Yes", disclose which individual(s) has the financial interest, what the type of business is, and if licensed in Alaska, which license number(s) and license type(s):

Holiday Alaska, LLC; Convenience Store; License #264 - Package Store
Holiday Alaska, LLC; Convenience Store; License #660 - Package Store
Holiday Alaska, LLC; Convenience Store; License #2386 - Package Store
Holiday Alaska, LLC; Convenience Store; License #3282 - Package Store
Holiday Alaska, LLC; Convenience Store; License #3460 - Package Store
Holiday Alaska, LLC; Convenience Store; License #3973 - Package Store
Holiday Alaska, LLC; Convenience Store; License #4156- Package Store

Section 7 – Authorization

Communication with AMCO staff:

Yes No

Does any person other than a licensee named in this application have authority to discuss this license with AMCO staff?

If "Yes", disclose the name of the individual and the reason for this authorization:

Jessica Brown - Holland & Knight, LLP - Counsel
jessica.brown@hklaw.com, 415-216-6643

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
alcohol.licensing@alaska.gov
<https://www.commerce.alaska.gov/web/amco>
Phone: 907.269.0350



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 8 – Transferor Certifications

Additional copies of this page may be attached, as needed, for the controlling interest of the current licensee to be represented.

I declare under penalty of perjury that the undersigned represents a **controlling interest** of the current licensee. I additionally certify that I, as the current licensee (either the sole proprietor or the controlling interest of the currently licensed entity) have examined this application, approve of the transfer of this license, and find the information on this application to be true, correct, and complete.

Signature of transferor

Gary Brant

Printed name of transferor

Subscribed and sworn to before me this 14th day of November, 20 23.

Signature of Notary Public



Notary Public in and for the State of Indiana.

My commission expires: 02/01/2029

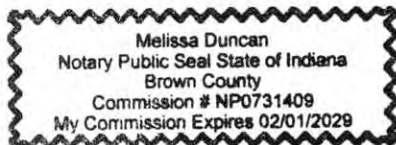
Signature of transferor

Gary Brant

Printed name of transferor

Subscribed and sworn to before me this 14th day of November, 20 23.

Signature of Notary Public



Notary Public in and for the State of Indiana.

My commission expires: 02/01/2029



Alaska Alcoholic Beverage Control Board

Form AB-01: Transfer License Application

Section 9 – Transferee Certifications

Read each line below, and then sign your initials in the box to the right of each statement:

Initials

I certify that all proposed licensees (as defined in AS 04.11.260) and affiliates have been listed on this application.

GBB

I certify that all proposed licensees have been listed with the Division of Corporations.

GBB

I certify that I understand that providing a false statement on this form or any other form provided by AMCO is grounds for rejection or denial of this application or revocation of any license issued.

GBB

I certify that all licensees, agents, and employees who sell or serve alcoholic beverages or check the identification of a patron will complete an approved alcohol server education course, if required by AS 04.21.025, and, while selling or serving alcoholic beverages, will carry or have available to show a current course card or a photocopy of the card certifying completion of approved alcohol server education course, if required by 3 AAC 304.465.

GBB

I agree to provide all information required by the Alcoholic Beverage Control Board in support of this application.

GBB

I hereby certify that I am the person herein named and subscribing to this application and that I have read the complete application, and I know the full content thereof. I declare that all of the information contained herein, and evidence or other documents submitted are true and correct. I understand that any falsification or misrepresentation of any item or response in this application, or any attachment, or documents to support this application, is sufficient grounds for denying or revoking a license/permit. I further understand that it is a Class A misdemeanor under Alaska Statute 11.56.210 to falsify an application and commit the crime of unsworn falsification.

GBB

Gary Brant

Signature of transferee

Gary Brant

Printed name

Melissa Duncan

Signature of Notary Public

Notary Public in and for the State of Indiana

My commission expires: 02/01/2029



Subscribed and sworn to before me this 14th day of November, 2023.



Alaska Alcoholic Beverage Control Board

Form AB-07: Public Notice Posting Affidavit

Why is this form needed?

A public notice posting affidavit is required for all liquor license applications. An applicant must give notice of a liquor license application to the public by posting a true copy of the **Form AB-00** (new licenses) or **Form AB-01** (license transfers) for ten (10) days at the location of the proposed licensed premises and one other conspicuous location in the area of the proposed premises, per AS 04.11.310 and 3 AAC 304.125. The public notice must be given within the 60 days immediately preceding filing of the application.

This form must be completed and submitted to AMCO's Anchorage office before any license application will be considered

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:				
License Type:				
Doing Business As:				
Premises Address:				
City:		State:		ZIP:

Section 2 – Certification

I certify that I have met the public notice requirement set forth under AS 04.11.310 by posting a copy of my application for the following 10-day period at the location of the proposed licensed premises and at the following conspicuous location in the area of the proposed premises:

Start Date: _____ End Date: _____

Other conspicuous location: _____

Read the statement below, and then sign your initials in the box to the right of the statement:

Initials

I hereby certify that I am the person herein named and subscribing to this application and that I have read the complete application, and I know the full content thereof. I declare that all of the information contained herein, and evidence or other documents submitted are true and correct. I understand that any falsification or misrepresentation of any item or response in this application, or any attachment, or documents to support this application, is sufficient grounds for denying or revoking a license/permit. I further understand that it is a Class A misdemeanor under Alaska Statute 11.56.210 to falsify an application and commit the crime of unsworn falsification.



 Printed name of licensee

GMB

 Signature of licensee



Alaska Alcoholic Beverage Control Board

Form AB-02: Premises Diagram

Why is this form needed?

A detailed diagram of the proposed licensed premises is required for all liquor license applications, per AS 04.11.260 and 3 AAC 304.185. Your diagram must include dimensions and must show all entrances and boundaries of the premises, walls, bars, fixtures, and areas of storage, service, consumption, and manufacturing. If your proposed premises is located within a building or building complex that contains multiple businesses and/or tenants, please provide an additional page that clearly shows the location of your proposed premises within the building or building complex, along with the addresses and/or suite numbers of the other businesses and/or tenants within the building or building complex.

The second page of this form may not be required. Blueprints, CAD drawings, or other clearly drawn and marked diagrams may be submitted in lieu of the second page of this form. The first page must still be completed, attached to, and submitted with any supplemental diagrams. An AMCO employee may require you to complete the second page of this form if additional documentation for your premises diagram is needed.

This form must be completed and submitted to AMCO’s Anchorage office before any license application will be considered complete.

Yes No

I have attached blueprints, CAD drawings, or other supporting documents in addition to, or in lieu of, the second page of this form.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:		License Number:	
License Type:			
Doing Business As:			
Premises Address:			
City:		State:	
		ZIP:	

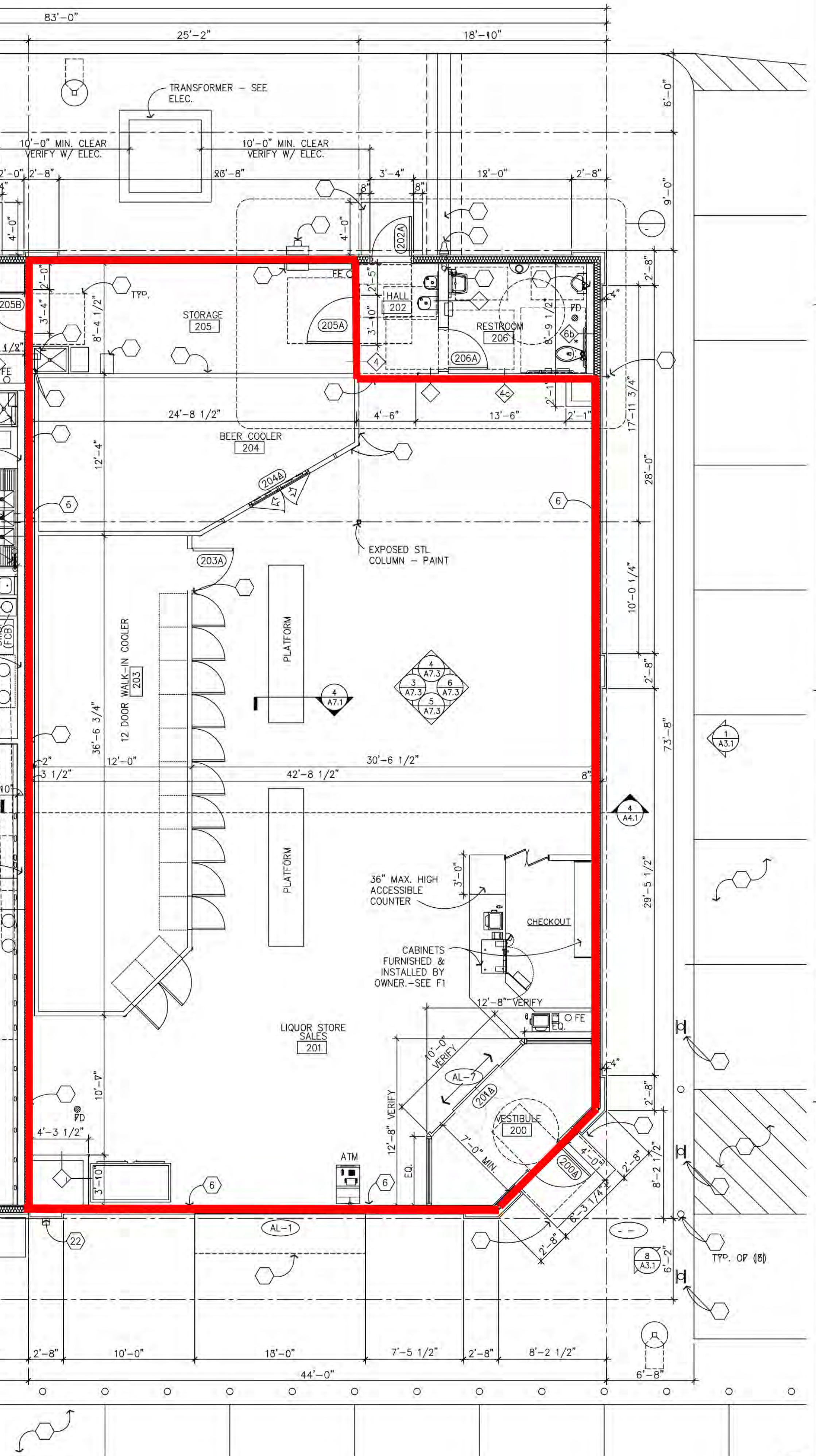


Alaska Alcoholic Beverage Control Board

Form AB-02: Premises Diagram

Section 2 – Detailed Premises Diagram

Clearly indicate the boundaries of the premises and the proposed licensed area within that property. Clearly indicate the interior layout of any enclosed areas on the proposed premises. Clearly identify all entrances and exits, walls, bars, and fixtures, and outline in red the perimeter of the areas designated for alcohol storage, service, consumption, and manufacturing. Include dimensions, cross-streets, and points of reference in your drawing. You may attach blueprints or other detailed drawings that meet the requirements of this form.



3/16" = 1'-0"



NORTH



155 BROADWAY STREET
KENAI, ALASKA 99611
(907) 283-3043
LICENSED PROFESSIONAL ENGINEER

COPYRIGHT NOTICE
This drawing is the property of the above named Professional and is not to be used for any other project or site without the written consent of the Professional. The Professional is not responsible for any errors or omissions in this drawing unless otherwise noted.

3/7/23 PERM/REV SET
5/17/23 REVISION 1

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

MJD PROJECT MANAGER
MJD QUALITY CONTROL
MJD/DMD DRAWN BY
MJD

PROJECT NAME

CIRCLE K STORES INC. STORE #650

WASILLA ALASKA

7751 WEST PARKS HWY
WASILLA, ALASKA 99623
MATANUSKA-SUSTITNA CO



Holiday

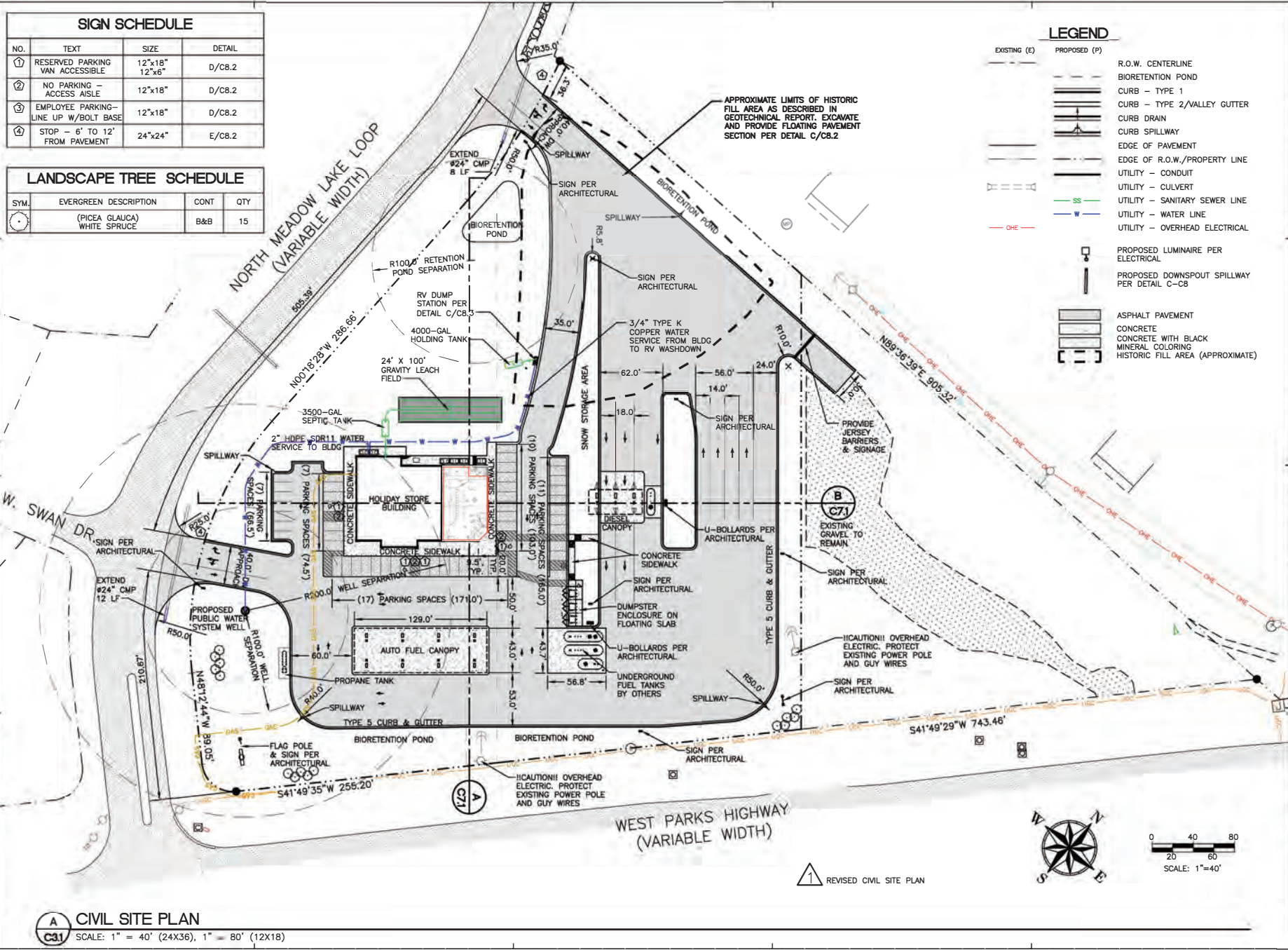
PROJECT NUMBER
014764.40

SHEET TITLE

CIVIL SITE PLAN

SHEET NUMBER

C-3.1



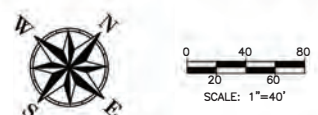
SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
1	RESERVED PARKING VAN ACCESSIBLE	12"x18" 12"x6"	D/CB.2
2	NO PARKING - ACCESS AISLE	12"x18"	D/CB.2
3	EMPLOYEE PARKING - LINE UP W/BOLT BASE	12"x18"	D/CB.2
4	STOP - 6" TO 12" FROM PAVEMENT	24"x24"	E/CB.2

LANDSCAPE TREE SCHEDULE			
SYM.	EVERGREEN DESCRIPTION	CONT	QTY
(Symbol)	(PICEA GLAUCA) WHITE SPRUCE	B&B	15

LEGEND	
EXISTING (E)	PROPOSED (P)
(Symbol)	R.O.W. CENTERLINE
(Symbol)	BIORETENTION POND
(Symbol)	CURB - TYPE 1
(Symbol)	CURB - TYPE 2/VALLEY GUTTER
(Symbol)	CURB DRAIN
(Symbol)	CURB SPILLWAY
(Symbol)	EDGE OF PAVEMENT
(Symbol)	EDGE OF R.O.W./PROPERTY LINE
(Symbol)	UTILITY - CONDUIT
(Symbol)	UTILITY - CULVERT
(Symbol)	UTILITY - SANITARY SEWER LINE
(Symbol)	UTILITY - WATER LINE
(Symbol)	UTILITY - OVERHEAD ELECTRICAL
(Symbol)	PROPOSED LUMINAIRE PER ELECTRICAL
(Symbol)	PROPOSED DOWNSPOUT SPILLWAY PER DETAIL C-C8
(Symbol)	ASPHALT PAVEMENT
(Symbol)	CONCRETE
(Symbol)	CONCRETE WITH BLACK MINERAL COLORING
(Symbol)	HISTORIC FILL AREA (APPROXIMATE)

A CIVIL SITE PLAN
SCALE: 1" = 40' (24X36), 1" = 80' (12X18)

REVIS 1 REVISED CIVIL SITE PLAN



From: [Sawyer, Jane Preston \(CED\)](#)
To: [License Reviews; Alex Strawn](#)
Cc: [AMCO Local Government Only \(CED sponsored\)](#)
Subject: Lic. 4198-LGB Notice-Transfer Application-Holiday #360
Date: Tuesday, May 14, 2024 4:11:12 PM
Attachments: [image001.png](#)
[Lic. 4198-LGB Notice-Transfer App.Holiday #650.pdf](#)
[Holiday Alaska, LLC Entity Documents.pdf](#)
[2019-07-03 Warranty Deed.pdf](#)
[4198 AB-01 Transfer Application.pdf](#)
[4198 AB-07 Public Notice Posting Affidavit.pdf](#)
[4198 Transfer AB-02 Premises Diagram.pdf](#)

[EXTERNAL EMAIL - CAUTION: Do not open unexpected attachments or links.]

Good afternoon,

Attached is notice of a transfer of location of an alcoholic beverage license in your jurisdiction. I also attached the relevant application documents.

The transfer is from location: 7383W Parks Highway, to 7751 W Parks Highway.

Respectfully,

Jane P. Sawyer
Program Coordinator
DCCED-Alcohol and Marijuana Control Office
550 W. 7th Avenue, Suite 1600
Anchorage, AK 99501
907-269-0490



File No. 82196 D

State of Alaska
Department of Community and Economic Development
Division of Banking, Securities and Corporations

CERTIFICATE
OF
INCORPORATION
Business Corporation

The undersigned, as Commissioner of Community and Economic Development of the State of Alaska, hereby certifies that Articles of Incorporation of

HOLIDAY ALASKA, INC.

have been received in this office and have been found to conform to law.

ACCORDINGLY, the undersigned, as Commissioner of Community and Economic Development, and by virtue of the authority vested in me by law, hereby issues this Certificate of Incorporation and attaches hereto the original copy of the Articles of Incorporation.

IN TESTIMONY WHEREOF, I execute this certificate and
affix the Great Seal of the State of Alaska on
SEPTEMBER 10, 2003



Edgar Blatchford
Commissioner

SEP 10 2003

Dept. of Community &
Economic Development

**ARTICLES OF INCORPORATION
OF
HOLIDAY ALASKA, INC.**

These Articles of Incorporation are being filed under the provisions of the Alaska Corporations Code (AS 10.06).

ARTICLE I

Name

The name of this corporation is Holiday Alaska, Inc.

ARTICLE II

Purpose

This corporation is organized for the purpose of transacting any and all lawful business for which corporations may be incorporated under Title 10 of the Alaska Statutes, as amended.

ARTICLE III

Registered Office

The address of the registered office of the corporation is 801 West Tenth Street, Suite 300, Juneau, Alaska 99801, and the name of the registered agent at such address is CT Corporation System.

ARTICLE IV

Alien Affiliates

The corporation has no alien affiliates.

ARTICLE V

Authorized Shares

The total authorized number of shares of the corporation is Twenty-Five Million (25,000,000) shares of common stock, without par value.

ARTICLE VI

Directors

The Board of Directors shall consist of the number of directors designated in the Bylaws. The number of directors may be increased or decreased from time to time by amendment to the Bylaws or by resolution of the shareholders.

ARTICLE VII

Limitation of Liability of Directors

A director will not be personally liable to the corporation or its shareholders for monetary damages for the breach of fiduciary duties as a director, except to the extent such a limitation on liability is prohibited by AS 10.06.210(N), as the same may be hereafter amended.

ARTICLE VIII

Incorporator

The name and address of the incorporator is:

Richard M. Rosston
Dorsey & Whitney LLP
1031 West Fourth Avenue, Suite 600
Anchorage, Alaska 99501

DATED: September 10, 2003.


Richard M. Rosston

**STATEMENT OF SIC CODE
FOR
HOLIDAY ALASKA, INC.**

The SIC code that most closely describes the activities in which the corporation will initially engage is 5500 - Retail Trade: Automotive Dealers and Gasoline Service Stations.

3814168



THE STATE
 of **ALASKA**

Department of Commerce, Community, and Economic Development
 Division of Corporations, Business and Professional Licensing

Corporations Section

State Office Building, 333 Willoughby Avenue, 9th Floor
 PO Box 110806, Juneau, AK 99811-0806
 Phone: (907) 465-2550 ★ Fax: (907) 465-2974
 Email: corporations@alaska.gov
 Website: http://commerce.alaska.gov/cbpl/corp

CORP

RECEIVED
 Juneau
 NOV 01 2017
 CBPL
 ✓ 175 / 200 (S)

STATEMENT OF CONVERSION

Specifically for

**An Entity with an AK Entity Number
 Converting to a Domestic (Alaskan) Limited Liability Company**
 Under the Alaska Entity Transaction Act AS 10.55.401-10.55.406

\$175.00 Filing Fee

- \$ 25.00 Statement of Conversion Filing Fee (non-refundable) (\$25 Corp Fee)
- \$150.00 Articles of Organization Filing Fee (non-refundable) (\$150 Corp Fee)

NOTICE: The Articles of Organization must be submitted as an attachment.

Pursuant to the provisions of Alaska Statutes 10.55.405, excluding entities stated in AS 10.55.110, a domestic (Alaskan) or foreign (non-Alaskan) entity may convert (change from one type of entity to a different type of entity) to a domestic (Alaskan) limited liability company by submitting the following statement:

ITEM 1: Name of the converting (changing from) entity:	Alaska Entity # (mandatory):
Holiday Alaska, Inc.	82196D
State of Domicile (changing from):	Type of Entity (changing from):
Alaska	Business Corporation

ITEM 2: Name of the converted (changing to) domestic (Alaskan) limited liability company must contain the words "limited liability company" or the abbreviation of "L.L.C" or "LLC." The word "limited" may be abbreviated as "Ltd." and the word "company" may be abbreviated as "Co." (Note: the name of the limited liability company in Item #2 on the Statement of Conversion must match the name in Article #1 on the Articles of Organization attached to this filing.):

Holiday Alaska, LLC	
State of Domicile or Jurisdiction (changing to):	Type of Entity (changing to):
Alaska	Limited Liability Company

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company



RECEIVED
Juneau

NOV 01 2017

ITEM 3: (Optional) The future effective date of conversion, if different from date of filing, must be a specific future date and cannot exceed 90 days from date of filing. Future effective date (mm/dd/yyyy format):
____/____/____.

ITEM 4:

If the converting (changing from) entity is a domestic (Alaskan) entity (listed in Item #1 above), the conversion has been approved in accordance with AS 10.55.401-10.55.406.

-OR-

If the converting (changing from) entity is a foreign (non-Alaskan) entity (listed in Item #1 above), the conversion has been approved by the foreign converting entity in accordance with the laws of its jurisdiction of organization.

ITEM 5: The converted (changing to) entity is a domestic (Alaskan) limited liability company; therefore the text of the converted entity's articles of organization must be attached to this Statement of Conversion. Choose only one of the options below:

Complete the attached Articles of Organization portion of this form.

-OR-


Provide Articles of Organization, which satisfy the requirements of AS 10.50.075 and 10.55.405, as an attachment.

ITEM 6: The Statement of Conversion must be signed on behalf of the converting (changing from) entity (listed in Item #1 above) in the following manner:

- If the converting entity is a corporation, it must be signed by an officer of the corporation.
- If the converting entity is not a corporation, it must be signed by the person authorized by said entity.
- If the converting entity is in the hands of a receiver, trustee, or other court-appointed fiduciary, it must be signed by said fiduciary.

If the converting entity is currently on record with this division (has an AK Entity Number) and the signer is an official of the entity then the signer must be currently on record with this division.

Provide the printed name of the signer, the full title/capacity of the authorized signer, the name of the entity that the individual is representing, and signature of the individual authorized to sign.

	Lynn M. Anderson	Assistant Secretary of Holiday Alaska, Inc.	
Signature	Printed Name	Title and entity that is represented	Date

NOTE - Signatures:

Per AS 10.55.609, persons who sign documents to be filed with the commissioner that are known by the person to be false in material respects are guilty of a class A misdemeanor.

IMPORTANT: Changing Officials

On the date the Statement of Conversion is filed for record all officials currently on record for the converting (changing from) entity (listed in Item #1 on the Statement of Conversion) will be removed from record. The converted (changing to) entity (listed in Item # 2 of the Statement of Conversion) must file a notification of changing officials with this division in the manner and time prescribed in AS 10.50.765. The notification of officials changing maybe filed in conjunction with the Statement of Conversion.

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company

RECEIVED
Juneau

NOV 01 2017

ARTICLES OF ORGANIZATION

Specifically for

**Domestic (Alaskan) Limited Liability Company
with Statement of Conversion**

Under AS 10.50.075 and the Alaska Transactions Act 10.55.401-10.55.406

CBPL

Pursuant to AS 10.55.405 the converted entity's public organic document must be submitted as an attachment to this Statement of Conversion.

Pursuant to AS10.55.405 the undersigned domestic (Alaskan) limited liability company applies for a Certificate of Organization and, for that purpose, submits the following:

ARTICLE 1: Legal name of the limited liability company must contain the words "limited liability company" or the abbreviation "L.L.C.," or "LLC". The word "limited" may be abbreviated as "Ltd." and the word "company" may be abbreviated as "Co." (Note: the name of the limited liability company in Article #1 on the Articles of Organization must match the name in Item #2 on the Statement of Conversion portion of this filing.):

Holiday Alaska, LLC

ARTICLE 2: The purpose of the company (may include "any lawful") and, separately, the 6 digit NAICS Industry Grouping Code that most clearly describes the initial activities of the company:

Purpose: Any lawful	NAICS code:	4	4	7	1	1	0
---------------------	-------------	---	---	---	---	---	---

ARTICLE 3:

The registered agent for the domestic (Alaskan) limited liability company (listed in Article #1 on the Articles of Organization) is the same agent on record for the converting (changing from) entity (listed in Item #1 on the Statement of Conversion). Per Alaska Statutes the registered agent information may only be updated via a Statement of Change Registered Agent form. The non-refundable filing fee for a Statement of Change is \$25.

ARTICLE 4: Management. Choose only one of the options below:

The limited liability company is managed by its Members.
(There must be at least one member and there are no managers.)

-OR-

The limited liability company is managed by a Manager.
(There must be at least one member and one manager; additionally the manager(s) have sole decision making power within the LLC.)

ARTICLE 5: Optional Provisions and Additional Articles

- Attach additional pages for continuation of optional provisions and/or additional articles.
- Please indicate which article you are continuing and/or insert any desired additional provisions authorized by Alaska Statutes.
- Additional articles should be a continuation of the numbering as it appears on these Articles of Incorporation.

Attach an additional 8.5" x 11" sheet if necessary.

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company

Alaska Entity #82196D

State of Alaska
Department of Commerce, Community, and Economic Development
Corporations, Business, and Professional Licensing

Certificate of Conversion

The undersigned, as Commissioner of Commerce, Community, and Economic Development of the State of Alaska, hereby certifies that a duly signed and verified filing pursuant to the provisions of Alaska Statutes has been received in this office and has been found to conform to law.

ACCORDINGLY, the undersigned, as Commissioner of Commerce, Community, and Economic Development, and by virtue of the authority vested in me by law, hereby issues this certificate to

HOLIDAY ALASKA, LLC
formerly
HOLIDAY ALASKA, INC



IN TESTIMONY WHEREOF, I execute the certificate
and affix the Great Seal of the State of Alaska
effective **November 01, 2017**.

A handwritten signature in cursive script that reads "Mike Navarre".

Mike Navarre
Commissioner



THE STATE
of **ALASKA**

Department of Commerce, Community and Economic Development
Division of Corporations, Business and Professional Licensing

COR



Corporations Section

State Office Building, 333 Willoughby Avenue, 9th Floor
PO Box 110806, Juneau, AK 99811-0806
Phone: (907) 465-2550 • Fax: (907) 465-2974
Email: corporations@alaska.gov
Website: Corporations.Alaska.Gov

Statement of Change

Domestic Limited Liability Company (AS 10.50)

- This Statement of Change form for Registered Agents or Registered Agent Address Changes is only for Domestic Limited Liability Companies.
- The Statement of Change will not be filed if the official signing this form does not match an official on record for this entity and/or if your entity's biennial report is not current. To verify your entity information on record, go online to Corporations.Alaska.Gov, *Search Corporations Database*
- Standard processing time for complete and correct filings submitted to this office is approximately 10-15 business days. All filings are reviewed in the date order they are received.
- The information you submit is a public record and will be posted on the State's website.

1. Important:

AS 10.50.055-.065

Per AS 10.50.055, each Domestic Limited Liability Company shall (must) continuously (without interruption) maintain in this state (Alaska) a registered agent AND a registered office (with an Alaskan physical location and an Alaskan mailing address) for the purpose of a registered agent's statutory requirements to receive service of processes, notices, or demands required or permitted by law to be served upon the limited liability company.

Failure to meet registered agent requirements could result in involuntary dissolution of the entity's authority to transact business in the State of Alaska. — AS 10.50.408(a)(2),(3)

For more registered agent information go to Corporations.Alaska.Gov, *Registered Agents FAQs*.

2. Fee:

\$25 Nonrefundable Filing Fee (CORF)

3 AAC 16.065(b)

Mail this form and the non-refundable \$25 filing fee in U.S. dollars to the letterhead address. Make the check or money order payable to the State of Alaska, or use the attached credit card payment form.

3. Entity Information on Record with the State:

AS 10.50.060(1)

Entity Name: **Holiday Alaska, LLC**

Alaska Entity Number: **82196D**

4. PREVIOUS Registered Agent Information on Record with the State: AS 10.50.060(2), (4)

PREVIOUS Registered Agent Name: CT Corporation System

PREVIOUS Registered Agent Addresses:

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202

City: Juneau State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Hwy Ste 202

City: Juneau State: AK (mandatory) ZIP Code: 99801

5. NEW Registered Agent Information to be Updated with the State: AS 10.50.060(3), (5)

NEW Registered Agent Name: Dolores Owen

(Registered agent cannot be the entity listed in item 3 on Page 1 and cannot be an LLC.)

If the new Registered Agent is an entity, provide its entity number:

NEW Registered Agent Addresses:

→ PHYSICAL Address: 9360 Glacier Highway, Suite 202

City: Juneau State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Highway, Suite 202

City: Juneau State: AK (mandatory) ZIP Code: 99801

6. Authorization per Alaska Statute: AS 10.50.060(6)

The registered agent change was authorized by the company's manager, or, if the company is not managed by a manager, by the members. Per AS 10.50.860, a limited liability company is to keep and make available the record of the resolution.

7. Required Signature: AS 10.50.840

The Statement of Change must be signed by: a member (per AS 10.50.840.(a)(2)) or a manager (per AS 10.50.840(a)(1)) currently on record; or an attorney-in-fact (per AS 10.50.840(c)). Persons who sign documents filed with the commissioner that are known to the person to be false in material respects are guilty of a class A misdemeanor.

Signature: 

Date: 01/20/2020

Printed Name: Richard Johnson

Title of Authorized Signer: Member Manager Attorney-in-fact

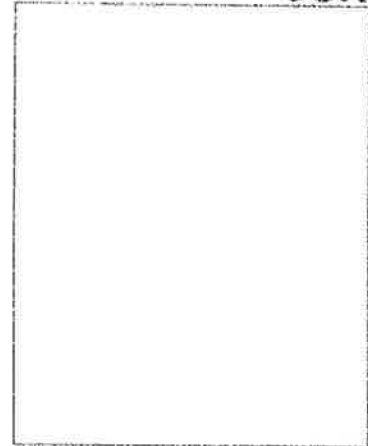
If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc, the sole member of ABC LLC



THE STATE
of **ALASKA**

Department of Commerce, Community and Economic Development
Division of Corporations, Business and Professional Licensing

COR



Corporations Section

State Office Building, 333 Willoughby Avenue, 9th Floor
PO Box 110806, Juneau, AK 99811-0806
Phone: (907) 465-2550 • Fax: (907) 465-2974
Email: corporations@alaska.gov
Website: Corporations.Alaska.Gov

Contact Information

- Return this form with your filing
- This information may be used by the Division to assist with processing your attached filings
- This form will not be filed for record, or appear online

Entity Information		Enter your entity information as it appears on this filing.	
Entity Name:	Holiday Alaska, LLC		
AK Entity #:	82196D		
Contact Person		Whom may we contact with any questions or problems with this filing?	
Company:	Holland & Knight, LLP		
Contact:	Peter Scully		
Mailing Address:	Address: 420 L Street, Suite 400		
	City: Anchorage	State: AK	Zip: 99501
Phone:	907-263-6347		
Email:	peter.scully@hklaw.com		
Document Return Address		Provide an address for the return of your filed documents.	
<input checked="" type="checkbox"/> Return my filings to the address provided ABOVE <input type="checkbox"/> Return my filings to this address provided BELOW			
Company:			
Contact:			
Mailing Address:	Address:		
	City:	State:	Zip:

**OPERATING AGREEMENT
OF
HOLIDAY ALASKA, LLC**

This Operating Agreement (this “**Agreement**”) of Holiday Alaska, LLC, an Alaska limited liability company (the “**Company**”), is executed on and as of November 1, 2017 (the “**Effective Time**”), by Holiday Stationstores, Inc., a Minnesota corporation, as the sole member of the Company (the “**Sole Member**”) as of the Effective Time. The Sole Member adopts the following as the operating agreement of the Company:

AGREEMENT

1. **Name.** The name of the Company is Holiday Alaska, LLC.
2. **Operating Agreement.** Except as otherwise required by the Alaska Revised Limited Liability Company Act (Alaska Stat. § 10.50.010 *et seq.*) (the “**Act**”), the Sole Member intends that this Agreement shall govern all aspects of the Company’s business, activities and affairs. The Sole Member acknowledges and agrees that this Agreement, including any exhibits hereto, in each case as hereafter amended from time to time in accordance with its terms, shall be the Company’s sole operating agreement for purposes of Sections 10.50.095 and 10.50.990(17) of the Act, and at no time shall any operating agreement be created by oral or implied means. The Sole Member intends that, during the entire term of this Agreement, the provisions of this Agreement shall, to the maximum extent permitted by law, supersede any provisions of the Act, as they now exist or as may be subsequently amended or restated, that are inconsistent or conflict with the provisions of this Agreement.
3. **Members.** The Sole Member is the sole member of the Company.
4. **Limited Liability.** To the fullest extent permitted by applicable law, the debts, obligations, or other liabilities of the Company, whether arising in contract, tort or otherwise, (a) are solely the debts, obligations or other liabilities of the Company, and (b) shall not become the debts, obligations or other liabilities of the Sole Member or any officer or authorized person unless expressly assumed by such party; provided that any repeal of this provision as a matter of law or any modification of this subpart shall be prospective only, and shall not adversely affect any limitation on the personal liability of the Sole Member or any officer or authorized person existing at the time of such repeal or modification.
5. **Interest in the Company.** The Sole Member is deemed admitted as a member of the Company upon execution and delivery of this Agreement. The Sole Member owns 100% of the issued and outstanding ownership interest in the Company. For purposes of this Agreement, the Sole Member’s interest includes all of the Sole Member’s rights and interests in the Company in the Sole Member’s capacity as the sole member of the Company, as provided in the Company’s articles of organization, this Agreement and the Act, including the Sole Member’s interest in the governance, distributions, capital, income, gain, deductions, losses, and credits of the Company.
6. **Capital Contributions.** The Sole Member is not required to, but may, make capital contributions to the Company. Any such contributions shall be recorded in the Company’s books and records.
7. **Allocation of Profits and Losses.** The Company’s profits and losses will be allocated in accordance with the ownership interest of the members.

8. **Distributions.** The distributions shall be made to the Sole Member at the times and in the aggregate amounts determined by the Sole Member. Notwithstanding any provision to the contrary contained in this Agreement, the Company shall not make a distribution if such distribution would violate the Act or any other applicable law.

9. **Member Management.** The management and conduct of the Company shall be vested in the Sole Member. In accordance with the Section 10.50.110(a) of the Act, the Sole Member shall have the authority to bind the Company and shall have the power to do any and all acts necessary, convenient or incidental to or for the furtherance of the purposes of the Company, including all powers, statutory or otherwise, possessed by members of a limited liability company under the laws of the State of Alaska.

10. **Delegation of Authority.**

(a) **Officers.** The Sole Member shall have the authority to appoint individual persons as “officers” to be agents and representatives of the Company and to delegate to any such person all or any of the Sole Member’s powers pursuant to this Agreement. Any delegation pursuant to this Section 10 may be revoked at any time by the Sole Member. Notwithstanding anything to the contrary in this Agreement, no provision in this Agreement granting any authority to any officer of the Company shall limit the authority of the Sole Member to act on behalf of the Company in any capacity under applicable law.

(b) **Further Delegation.** Unless prohibited by the Sole Member, an officer elected or appointed by the Sole Member may delegate some or all of the duties and powers of such office to other persons.

(c) **Term of Office.** Each officer shall hold office until a successor has been appointed by the Sole Member, or until such officer’s death, resignation, or removal from office.

(d) **Removal and Vacancies.** Any officer or agent elected or appointed by the Sole Member shall hold office at the pleasure of the Sole Member and may be removed, with or without cause, at any time by the Sole Member, subject to the terms of this Agreement. Any vacancy in an office of the Company shall be filled by action of the Sole Member.

11. **Right to Indemnification.** To the fullest extent permitted by applicable law, including Section 10.50.148 of the Act, the Company shall indemnify, hold harmless and advance expenses to each of the Sole Member, the Sole Member’s affiliates, directors, officers, employees, members, managers, partners, shareholders, assigns, representatives and agents and any officer duly appointed and acting on behalf of the Company in his or her capacity as an officer (each, an “**Indemnified Party**” and collectively, the “**Indemnified Parties**”) from and against and with respect to any and all losses, expenses, damages, liabilities, claims, demands or other amounts paid in settlement, sustained, incurred or suffered by reason of any acts or omissions or alleged acts or omissions as the Sole Member, an affiliate, director, officer, employee, member, manager, partner, shareholder, assign, representative or agent of the Sole Member, an officer duly appointed and acting on behalf of the Company in his or her capacity as an officer, as applicable, or in connection with any claim or proceeding arising out of or relating to the business or the operation of the Company, including judgments, settlements, penalties, fines or expenses incurred in a proceeding to which such Indemnified Party is a party or threatened to be made a party. The Sole Member’s liability to the Company for money damages is eliminated and limited to the fullest extent permitted by applicable law, including the Act. If applicable law, including the Act, is hereafter amended to authorize the further elimination or limitation of the liability of the Sole Member then, without requiring any action by the members, the liability of such Indemnified Party or Indemnified Parties shall be further limited to the fullest extent permitted by the amended applicable law. Any repeal of this

provision as a matter of law or any modification of this subpart shall be prospective only, and shall not adversely affect any limitation on the personal liability of an Indemnified Party existing at the time of such repeal or modification.

12. **Transfers.** The Sole Member may transfer in whole or in part its interest in the Company. If the Sole Member transfers any part of its interest in the Company, the transferee shall be admitted to the Company upon such transferee's execution of an instrument signifying its agreement to be bound by the terms and conditions of this Agreement. Any such transferee acknowledges that this Agreement, unless amended to accommodate multiple members, contemplates only one member and the Sole Member shall have automatically become the sole manager in a manager-managed limited liability company (as defined in the Act) for all purposes until such time as all the members enter into a new operating agreement. If the Sole Member transfers all of its interest in the Company, such admission shall be deemed effective immediately prior to the transfer, and, immediately following such admission, the transferor member shall cease to be a member of the Company.

13. **Other Business.** Nothing in this Agreement shall prevent the Sole Member from engaging in activities that may be competitive with the Company. The Sole Member may engage in or possess an interest in other business ventures of every kind and description, independently or with others. The Company shall not have any rights in or to such independent ventures or the income or profits therefrom by virtue of this Agreement.

14. **Dissolution.** Notwithstanding Section 10.50.400 of the Act, the Company shall be dissolved upon the first to occur of the following events: (a) the approval of the Sole Member; or (b) the entry of a decree of judicial dissolution permitted under Section 10.50.405 of the Act. To the full extent permitted by applicable law, the forgoing events that cause dissolution of the Company shall be the exclusive events that cause the dissolution of the Company. In the event of dissolution, the Company shall be wound up and terminated in accordance with Section 10.50.415 of the Act.

15. **Fiscal Year.** The initial fiscal year of the Company shall end December 31, 2017; thereafter the Company's fiscal year shall begin the first day of January and shall end on the last day of December.

16. **Entire Agreement.** This Agreement constitutes the entire agreement of the member(s) with respect to the subject matter hereof and supersedes any and all other prior agreements with respect to the subject matter hereof. The heirs, executors, administrators, legal or personal representatives, successors and/or assigns of each member shall be bound by this Agreement and shall be obligated to take any further action necessary or proper to fulfillment hereof.


17. **Amendments.** Any amendment to this Agreement shall be adopted and be effective as an amendment hereto if it is approved in writing by the Sole Member.

18. **Governing Law.** This Agreement, and all rights and remedies hereunder, shall be governed by, and construed under, the laws of the State of Alaska (without regard to conflict of laws principles).

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, has executed this Agreement to be effective as of the date first above stated.

SOLE MEMBER:

HOLIDAY STATIONSTORES, INC.

By:  _____

Name: Lynn M. Anderson

Its: Assistant Secretary



THE STATE
 of **ALASKA**
 Department of Commerce, Community and Economic Development
 Division of Corporations, Business and Professional Licensing



COR

FOR DIVISION USE ONLY

RECEIVED
Juneau
JAN 29 2021

CBPL

✓ 25 H

Corporations Section
 State Office Building, 333 Willoughby Avenue, 9th Floor
 PO Box 110806, Juneau, AK 99811-0806
 Phone: (907) 465-2550 • Fax: (907) 465-2974
 Email: corporations@alaska.gov
 Website: Corporations.Alaska.Gov

Statement of Change

Domestic Limited Liability Company (AS 10.50)

- This Statement of Change form for Registered Agents or Registered Agent Address Changes is only for Domestic Limited Liability Companies.
- The Statement of Change will not be filed if the official signing this form does not match an official on record for this entity and/or if your entity's biennial report is not current. To verify your entity information on record, go online to Corporations.Alaska.Gov, *Search Corporations Database*
- Standard processing time for complete and correct filings submitted to this office is approximately 10-15 business days. All filings are reviewed in the date order they are received.
- The information you submit is a public record and will be posted on the State's website.

1. Important:	AS 10.50.055-.065
<p>Per AS 10.50.055, each Domestic Limited Liability Company shall (must) continuously (without interruption) maintain in this state (Alaska) a registered agent AND a registered office (with an Alaskan physical location and an Alaskan mailing address) for the purpose of a registered agent's statutory requirements to receive service of processes, notices, or demands required or permitted by law to be served upon the limited liability company.</p> <p>Failure to meet registered agent requirements could result in involuntary dissolution of the entity's authority to transact business in the State of Alaska. — AS 10.50.408(a)(2),(3)</p> <p>For more registered agent information go to Corporations.Alaska.Gov, <i>Registered Agents FAQs</i>.</p>	

2. Fee:	<input checked="" type="checkbox"/> \$25 Nonrefundable Filing Fee (CORF)	3 AAC 16.065(b)
Mail this form and the non-refundable \$25 filing fee in U.S. dollars to the letterhead address. Make the check or money order payable to the State of Alaska, or use the attached credit card payment form.		

3. Entity Information on Record with the State:	AS 10.50.060(1)
Entity Name: <u>HOLIDAY ALASKA, LLC</u>	
Alaska Entity Number: <u>82196D</u>	

4. PREVIOUS Registered Agent Information on Record with the State: AS 10.50.060(2), (4)

PREVIOUS Registered Agent Name: DOLORES OWENS **RECEIVED**
Juneau

PREVIOUS Registered Agent Addresses: **JAN 29 2021**

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202 **CBPL**

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Hwy Ste 202

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

5. NEW Registered Agent Information to be Updated with the State: AS 10.50.060(3), (5)

NEW Registered Agent Name: Gloria Nash
(Registered agent cannot be the entity listed in Item 3 on Page 1 and cannot be an LLC.)

If the new Registered Agent is an entity, provide its entity number: _____

NEW Registered Agent Addresses:

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202

City: JUNEAU State: AK (mandatory) ZIP Code: 99801

→ MAILING Address: 9360 Glacier Hwy Ste 202

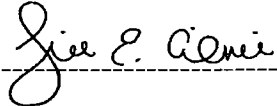
City: JUNEAU State: AK (mandatory) ZIP Code: 99801

6. Authorization per Alaska Statute: AS 10.50.060(6)

The registered agent change was authorized by the company's manager, or, if the company is not managed by a manager, by the members. Per AS 10.50.860, a limited liability company is to keep and make available the record of the resolution.

7. Required Signature: AS 10.50.840

The Statement of Change must be signed by: a member (per AS 10.50.840.(a)(2)) or a manager (per AS 10.50.840(a)(1)) currently on record; or an attorney-in-fact (per AS 10.50.840(c)). Persons who sign documents filed with the commissioner that are known to the person to be false in material respects are guilty of a class A misdemeanor.

Signature:  Date: 10/20/2020

Printed Name: Jill Cilmi, Attorney in Fact on behalf of Richard D. Johnson, Manager of Holiday Stationstores, LLC

Title of Authorized Signer: Member Manager Attorney-in-fact

If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc. the sole member of ABC LLC.

RECEIVED
Juneau

JAN 29 2021

CBPL

ENTITIES COVERED BY POWER OF ATTORNEY
OF RICHARD D. JOHNSON, MANAGER

Cass Oil, LLC
Erickson Petroleum, LLC
Holiday Alaska, LLC
Holiday Diversified Services, LLC
Holiday/Cedar Avenue LLC
Holiday/Corman LLC
Holiday/Maple Grove LLC
Holiday/Otsego LLC
Holiday/Rogers LLC
Holiday Stationstores, LLC
Holiday Stationstores NW, LLC
Independent Diversified Transportation, LLC
Indianhead Oil Co., LLC
Ironwood Oil, LLC
Lyndale Terminal, LLC
Newport Terminal, LLC
Rocky Mountain Oil, LLC



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

**Department of Commerce, Community,
and Economic Development**

ALCOHOL & MARIJUANA CONTROL OFFICE
550 West 7th Avenue, Suite 1600
Anchorage, AK 99501
Main: 907.269.0350

May 14, 2024

Matanuska-Susitna Borough

Email: license.reviews@matsugov.us; alex.strawn@matsugov.us

License Type:	Package Store	License Number:	4198
Licensee:	Holiday Alaska, LLC		
Doing Business As:	Holiday #650		
Premises Address	To: 7751 W Parks Highway, Wasilla, AK 99623 from: 7383 W Parks Highway, Wasilla		

- New Application**
- Transfer of Location Application**
- Transfer of Ownership Application**
- Transfer of Controlling Interest Application**

We have received a completed application for the above listed license (see attached application documents) within your jurisdiction. This is the notice required under AS 04.11.480.

A local governing body may protest the approval of an application(s) pursuant to AS 04.11.480 by furnishing the director **and** the applicant with a clear and concise written statement of reasons for the protest within 60 days of receipt of this notice, and by allowing the applicant a reasonable opportunity to defend the application before a meeting of the local governing body, as required by 3 AAC 304.145(d). If a protest is filed, the board will deny the application unless the board finds that the protest is arbitrary, capricious, and unreasonable. To protest the application referenced above, please submit your protest within 60 days and show proof of service upon the applicant.

AS 04.11.491 – AS 04.11.509 provide that the board will deny a license application if the board finds that the license is prohibited under as a result of an election conducted under AS 04.11.507.

AS 04.11.420 provides that the board will not issue a license when a local governing body protests an application on the grounds that the applicant’s proposed licensed premises are located in a place within the local government where a local zoning ordinance prohibits the alcohol establishment, unless the local government has approved a variance from the local ordinance.

Sincerely,
Jane P. Sawyer, Program Coordinator
For,
Joan Wilson, Director
amco.localgovernmentonly@alaska.gov

APPENDIX 5: TRAFFIC IMPACT ANALYSIS





Matanuska-Susitna Borough

Planning and Land Use Department

Development Services Division

350 East Dahlia Ave Palmer, AK 99645
Phone (907) 861-7822 / Fax (907) 861-8158
www.matsugov.us

AUTHORIZATION TO CONSTRUCT DRIVEWAY

PERMIT # D29949

TAX PARCEL ID # 17N02W09A014

Holiday Station Northern Access

May 2, 2024

All driveway installations shall comply with MSB Title 11.12. This authorization will expire **one year** from the date of this notice.



Call before you dig. Dial 811 to have utilities located before starting any dirt work.

The driveway access must adhere to the specifications outlined in the engineering plans, drawings, and other relevant documents submitted during the application process.

CULVERT REQUIRED

- Minimum 24-inch diameter corrugated metal pipe installed with sloped end sections.
- Ditch, driveway apron, and culvert end clear of rocks larger than 6" and any debris.
- Driveways fronting on paved roadway surfaces shall have a paved apron to the furthest point of curvature from the roadway.
- Signage and striping, if used, shall conform to the "2016 Alaska Traffic Manual" (Alaska Department of Transportation and Public Facilities) and shall be maintained by the landowner.

When driveway construction is complete, call the Inspection Request Line at 861-7822 option 2 or email PermitCenter@matsugov.us to request a final inspection. Be sure to reference the permit number shown above.

Sincerely,

Michelle Olsen, RWA
ROW Coordinator



Matanuska-Susitna Borough

Planning and Land Use Department

Development Services Division

350 East Dahlia Ave Palmer, AK 99645
Phone (907) 861-7822 / Fax (907) 861-8158
www.matsugov.us

AUTHORIZATION TO CONSTRUCT DRIVEWAY

PERMIT # D29950

TAX PARCEL ID # 17N02W09A022

Holiday Station Southern Access

May 2, 2024

All driveway installations shall comply with MSB Title 11.12. This authorization will expire **one year** from the date of this notice.



Call before you dig. Dial 811 to have utilities located before starting any dirt work.

The driveway access must adhere to the specifications outlined in the engineering plans, drawings, and other relevant documents submitted during the application process.

CULVERT REQUIRED

- Minimum 24-inch diameter corrugated metal pipe installed with sloped end sections.
- Ditch, driveway apron, and culvert end clear of rocks larger than 6" and any debris.
- Driveways fronting on paved roadway surfaces shall have a paved apron to the furthest point of curvature from the roadway.
- Signage and striping, if used, shall conform to the "2016 Alaska Traffic Manual" (Alaska Department of Transportation and Public Facilities) and shall be maintained by the landowner.

When driveway construction is complete, call the Inspection Request Line at 861-7822 option 2 or email PermitCenter@matsugov.us to request a final inspection. Be sure to reference the permit number shown above.

Sincerely,

Michelle Olsen, RWA
ROW Coordinator



MEMORANDUM

TO: Glenn Harvey, P.E. (Bergmann)
 FROM: LaQuita Chmielowski, P.E. (DOWL)
 Connor Denning, E.I.T. (DOWL)
 Jules Wagner, E.I.T. (DOWL)
 DATE: February 14, 2024
 SUBJECT: Traffic Impact Analysis for Holiday Development



BACKGROUND

This memorandum evaluates potential traffic impacts associated with the proposed Holiday development located off George Parks Highway, in Meadow Lakes, Alaska. The proposed Holiday Development has a maximum of 20 gas pumps, 6,740 square feet of convenience store area, and 3,165 square feet of liquor store area. The proposed Holiday store is replacing the existing Holiday store near the Parks Highway and Pittman Road intersection. Opening year for the development is expected in 2023. The site plan for the development is included in the Appendix.

This study examines existing intersection operations, along with future traffic operations in 2033 with and without the development.

EXISTING CONDITIONS

Existing conditions were analyzed in the study area including existing roadway characteristics, traffic volumes, and intersection operations. Due to the recent signal upgrade of the Parks Highway and Meadow Lakes Loop intersection, a safety analysis was not performed due to a lack of available data since the upgrade.

Roadway Characteristics & Study Intersections

The proposed development is located at 7751 West Parks Highway with the majority of development traffic expected to travel to and from Parks Highway accessing the development from Meadow Lakes Loop. Figure 1 shows the proposed development location and the adjacent study intersections. Table 1 shows the existing traffic control at each study intersection, while Table 2 provides the functional classification, posted speed limit and cross section for roadways in the study area.

Table 1: Traffic Control at Study Intersections

Intersection	Traffic Control
Parks Highway and Meadow Lakes Loop/Marigold Drive	Signalized
Meadow Lakes Loop and Meadow Lakes Spur	Two-way stop controlled

MEMORANDUM



Figure 1: Study Area Map

Table 2: Study Area Roadway Characteristics

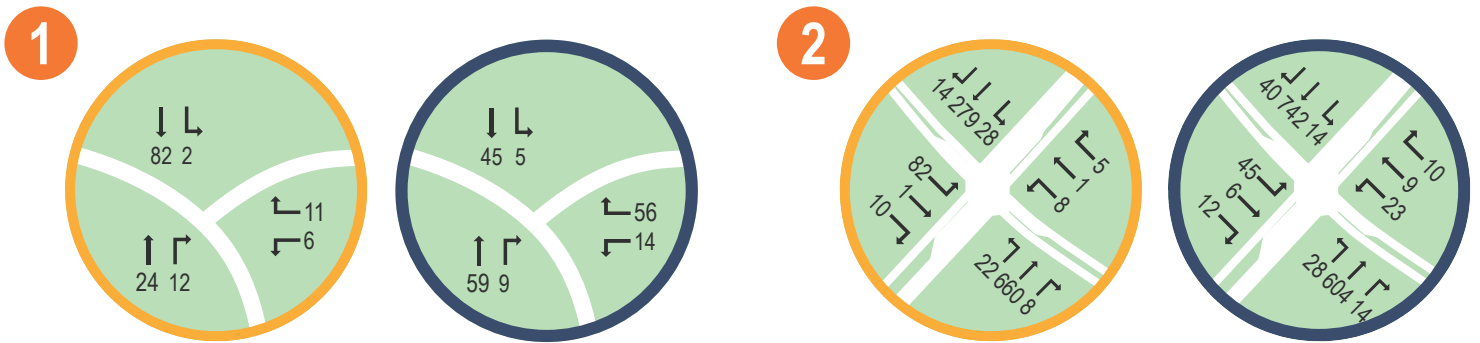
Road	Functional Classification	Posted Speed	Cross-section
Parks Highway	Interstate	55 MPH	Four lane divided highway
Meadow Lakes Loop	Minor Collector	30 MPH	Two lane road
Marigold Drive	Local Road	30 MPH	Two lane road

Existing Traffic Volumes

Existing traffic volumes were collected on May 11th, 2023. Data was collected at the existing study intersections using peak hour movement counts (7:00 AM – 9:00 AM; 4:00 PM – 6:00 PM). The AM peak hour of traffic was identified as 7:15 – 8:15 AM, while the PM peak hour was identified as 4:15 – 5:15 PM.

A seasonal adjustment factor (SAF) of 1.08 was applied to the traffic count data, to represent the 30th highest hour volume. The SAF was calculated using data from the nearby Alaska Department of Transportation & Public Facilities (DOT&PF) permanent count station located on Parks Highway at MP 48.¹ Figure 2 shows the seasonally adjusted existing AM and PM peak hour turning movement volumes at each study intersection.

¹ Data from <https://alaskatraficdata.drakewell.com>



○ AM Peak ○ PM Peak

Figure 2: Existing Conditions Volumes

MEMORANDUM

Mobility Standards

Traffic operations were assessed using the 2010 Highway Capacity Manual (HCM)² methodology to calculate intersection level of service (LOS) consistent with guidance from the 2022 Alaska DOT&PF Highway Preconstruction Manual.³ Full calculations are provided in the Appendix. The Alaska Administrative Code (AAC)⁴ establishes a minimum LOS for the development’s construction and design years. These code and policy documents state the following minimum acceptable LOS for the construction and design years:

- LOS C is acceptable if the existing conditions are LOS C or better
- LOS D is acceptable if the existing conditions are LOS D
- If the existing conditions are poorer than LOS D, a lower LOS is acceptable if the operation does not deteriorate more than ten percent (10%) in terms of delay time or any other appropriate measure of effectiveness compared with the background condition (i.e., without the development).

Existing Intersection Traffic Operations

Table 3 shows the existing delay and LOS at study intersections (reported using the 2010 HCM delay methodology). Overall intersection delay is reported at the signalized intersection, while delay is only reported for the critical movement (or highest delay approach) at stop-controlled intersections. All intersections currently operate at LOS C or better.

Table 3: Existing Conditions Traffic Operations

Intersection	AM Peak Hour			PM Peak Hour		
	LOS	Delay	Critical Movement	LOS	Delay	Critical Movement
Parks Highway and Meadow Lakes Loop/ Marigold Dr	B	11	-	B	11	-
Meadow Lakes Loop and Meadow Lakes Spur	A	9	WBL/R	A	9	WBL/R

Crash History

Crash history was not evaluated for this project due to both intersections being newly constructed or receiving upgrades in the last 5 years. Because of this, there is not enough data to accurately represent the crash trends at the intersections post-construction.

² HCM 2010: Highway Capacity Manual, Transportation Research Board, 2010.

³ Alaska Highway Preconstruction Manual, Alaska Department of Transportation and Public Facilities, 2022.

⁴ Section 17 Alaska Administrative Code 10.070, <https://www.akleg.gov/basis/aac.asp#17.10.070>

MEMORANDUM

FUTURE CONDITIONS

2033 No-Build Traffic Operations

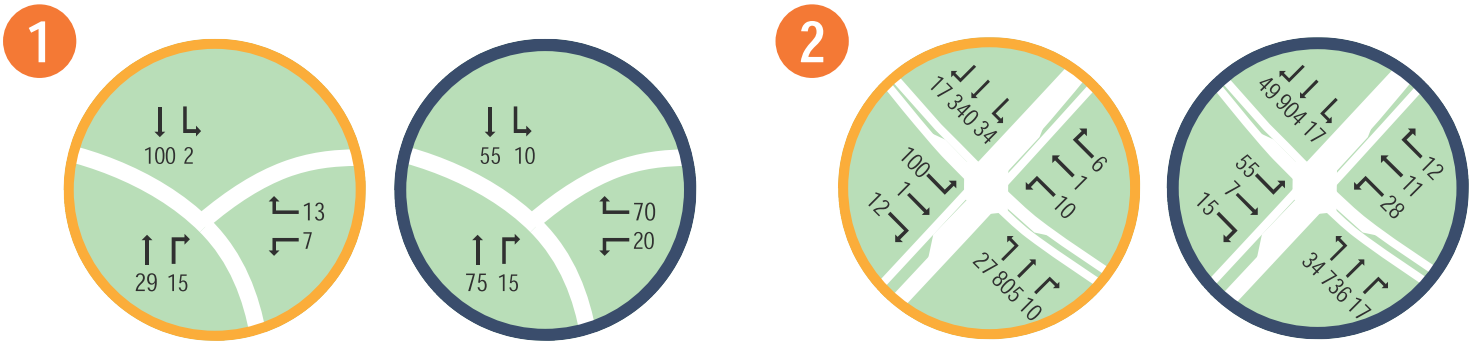
Figure 3 shows the expected AM and PM peak hour turning movements in 2033, without the proposed Holiday development. Future traffic volumes were generated using a compound annual growth rate of 2.00% per year. This growth rate was established through the Parks Highway Planning and Environmental Linkages study⁵.

Table 4 shows the expected delay and LOS at study intersections in 2033, without the Holiday development. All intersections operate within the acceptable mobility standards.

Table 4: 2033 No-Build Traffic Operations

Intersection	AM Peak Hour			PM Peak Hour		
	LOS	Delay	Critical Movement	LOS	Delay	Critical Movement
Parks Highway and Meadow Lakes Loop/ Marigold Dr	B	12	-	B	13	-
Meadow Lakes Loop and Meadow Lakes Spur	A	9	WBL/R	A	9	WBL/R

⁵ Parks Highway Alternative Corridor Planning and Environmental Linkages Study, Traffic Forecast Technical Memorandum.



AM Peak PM Peak

Figure 3: 2033: No Build Volumes

MEMORANDUM

Trip Generation

Trip generation rates for the proposed development are based on the data published in the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition*. Table 5 shows the land use code, description and variables needed. This information was used to calculate the expected number of inbound and outbound trips during a typical weekday, and the AM and PM peak hours of the adjacent road.

Due to the land use type, the ITE Trip Generation Handbook recommends the use of a pass-by trip percentage for the convenience store and gas station land use. Pass-by trips are vehicles currently using the adjacent road who choose to enter the proposed development to make a stop before continuing on their journey in the same direction. It was determined that for this development a pass-by trip % of 45% would be used for the convenience store and gas station part of the development⁶. This results in the total primary trips in Table 6 for entering and exiting volumes during the AM and PM peak hours.

Table 5: Development Land Use Types and Units

Land Use Code	Land Use Type	Units	AM Peak Hour Average Rate	PM Peak Hour Average Rate	Daily Average Rate
899	Liquor Store	1000 Square Feet	0.59	16.62	107.21
945	Convenience Store/Gas Station GFA (5.5k-10k)	Vehicle Fuel Pumps	31.6	26.9	345.75

Table 6: Development Trip Generation

Trip Type	Quantity	AM Peak Hour			PM Peak Hour			Daily Trips
		Trips in	Trips Out	Total	Trips in	Trips Out	Total	
Liquor Store	3.2	2	0	2	27	27	54	344
Convenience store	20	316	316	632	269	269	538	6916
Convenience Store Pass-by Reduction	-45%	-142	-142	-284	-121	-121	-242	-3112
Total Primary Trips		176	174	350	175	175	350	4148

The Alaska Administrative Code (AAC)⁷ requires a traffic impact analysis if a development is projected to generate more than 100 trips on a highway during a peak hour. After accounting for pass by trips, the Holiday development still generates over 100 PM peak hour trips.

Trip Distribution

Trip distribution involves estimating where traffic is coming from and going to when accessing the development. The trip distribution was established based on turning movement counts at the Parks Highway and Meadow Lakes Loop/ Marigold Drive intersection. Pass-by trips were only assigned to trips on Parks Highway and were determined by the percentage of trips on the north

⁶ Institute of Transportation Engineers, Trip Generation Handbook 3rd Edition pages 218-220, 2017.

⁷ Section 17 Alaska Administrative Code 10.060, <https://www.akleg.gov/basis/aac.asp#17.10.060>

MEMORANDUM

and southbound entering legs. Primary trips were determined by the percentage of trips entering the intersection from all four legs. Figure 4 shows the expected development-related traffic expected at study intersections in the AM and PM peak hours.

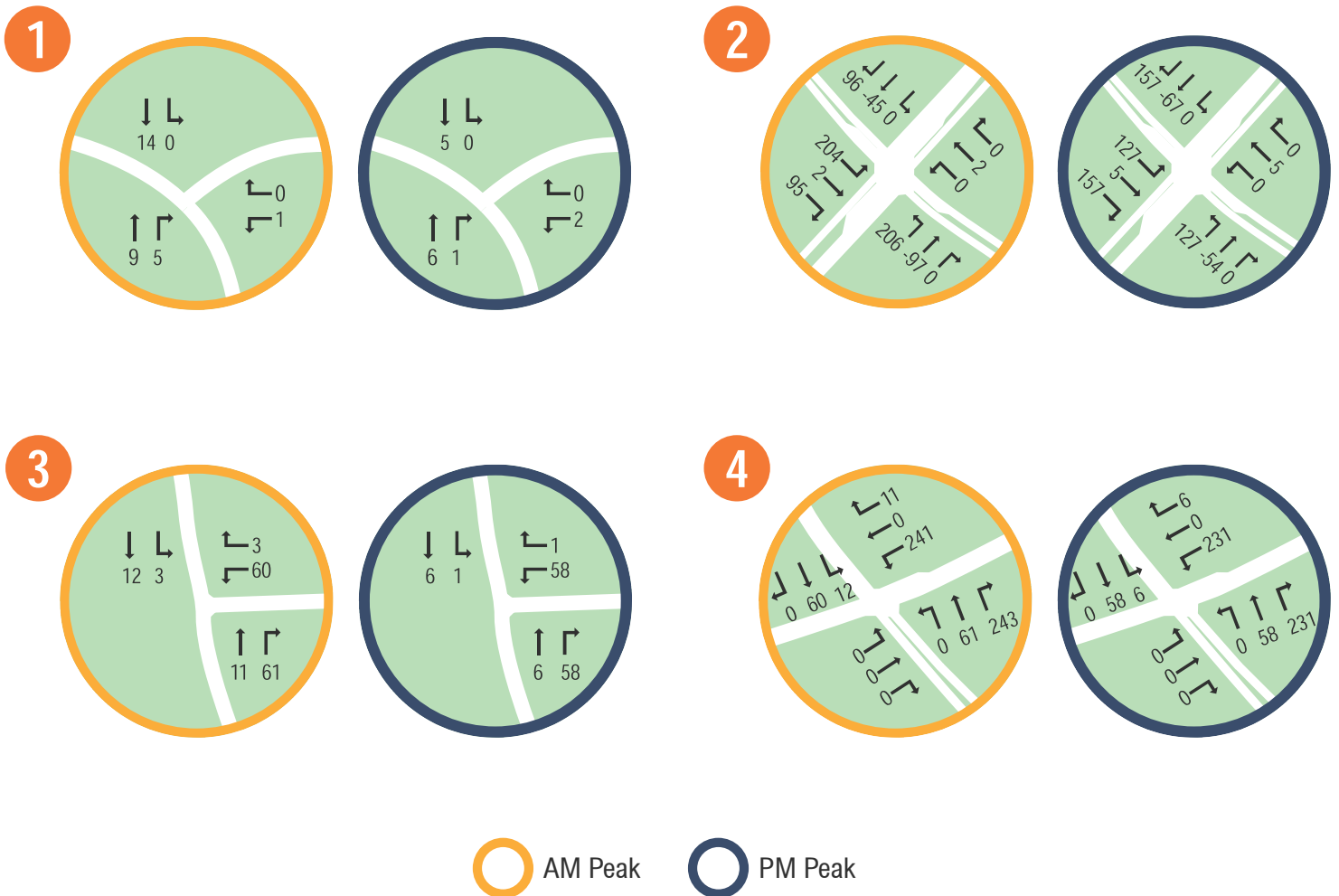
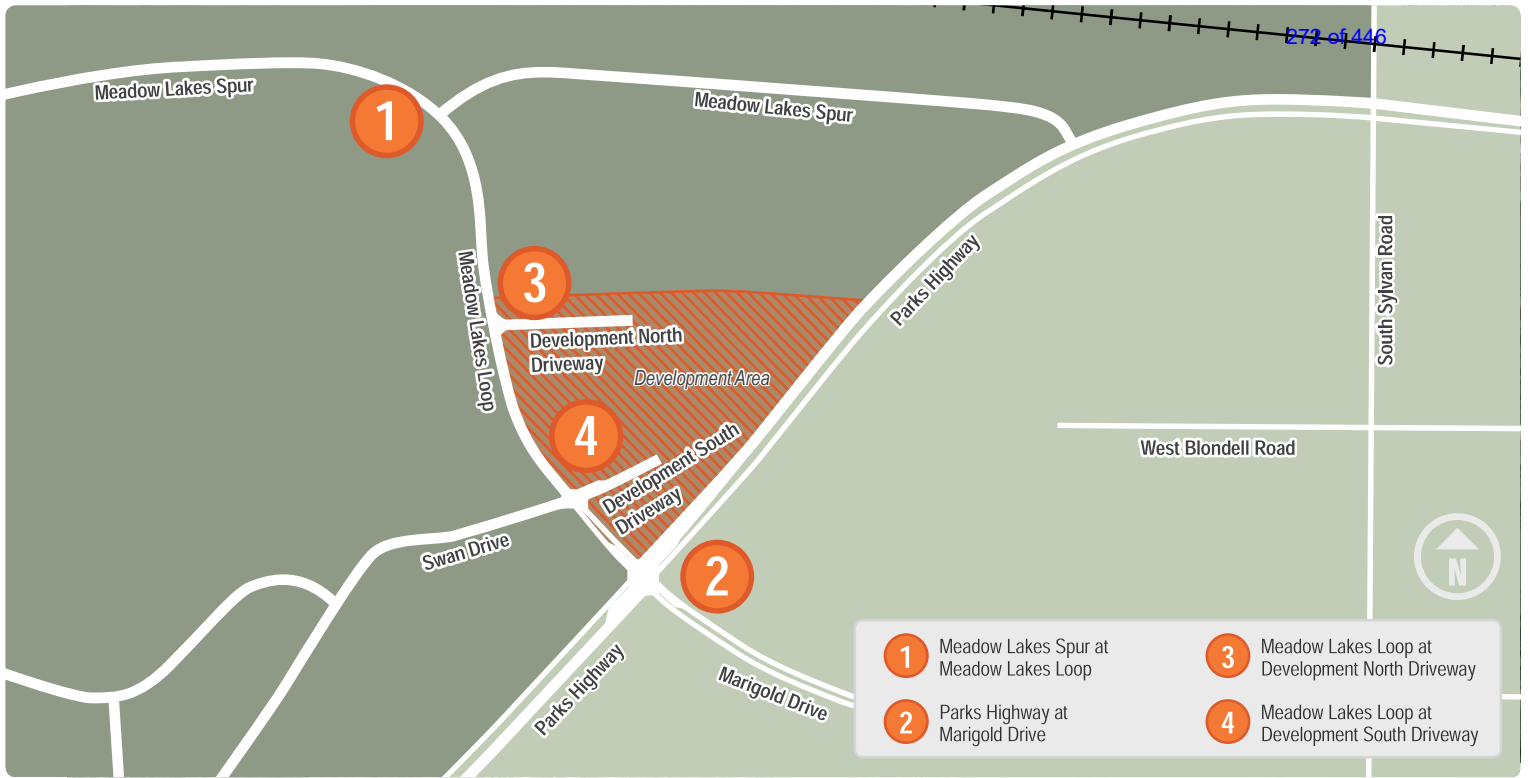


Figure 4: Added Build Volumes

MEMORANDUM

Traffic Operations with Development

Generated trips were added to the 2023 and 2033 no-build traffic volumes. Figure 5 and Figure 6 show the total traffic expected in in each scenario with the development traffic included. Table 7 and Table 8 show the expected traffic operations at each study intersection.

As shown, the existing intersections are expected to operate at an LOS A or B, meeting DOT&PF requirements. Therefore, no intersection mitigation will be required as a part of this project.

Table 7: 2023 Traffic Operations with Development

Intersection	AM Peak Hour			PM Peak Hour		
	LOS	Delay	Critical Movement	LOS	Delay	Critical Movement
Parks Highway and Meadow Lakes Loop/ Marigold Dr	B	12	-	B	11	-
Meadow Lakes Loop and Meadow Lakes Spur	A	9	WBL/R	A	9	WBL/R

Table 8: 2033 Traffic Operations with Development

Intersection	AM Peak Hour			PM Peak Hour		
	LOS	Delay	Critical Movement	LOS	Delay	Critical Movement
Parks Highway and Meadow Lakes Loop/ Marigold Dr	B	13	-	B	12	-
Meadow Lakes Loop and Meadow Lakes Spur	A	9	WBL/R	A	9	WBL/R

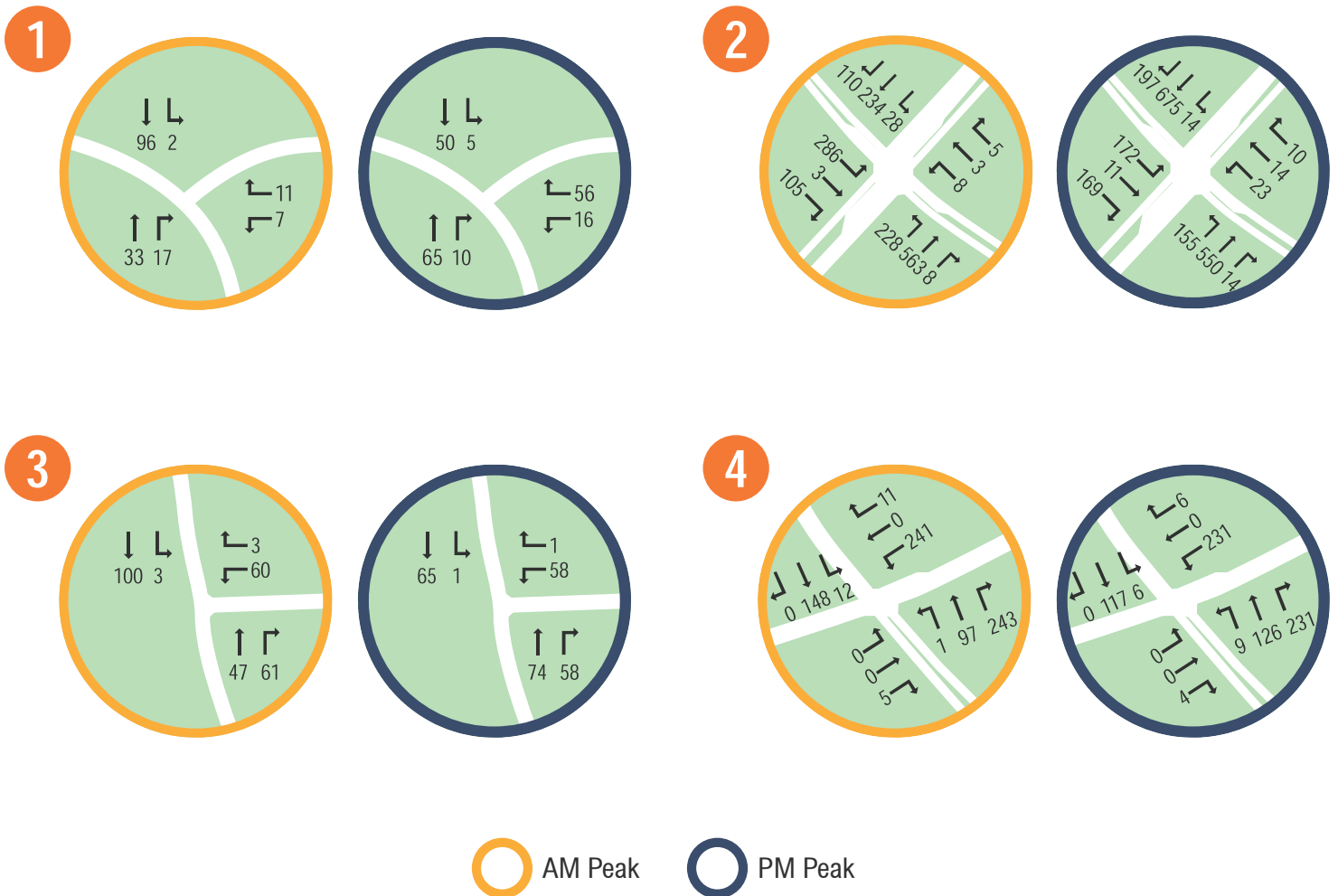
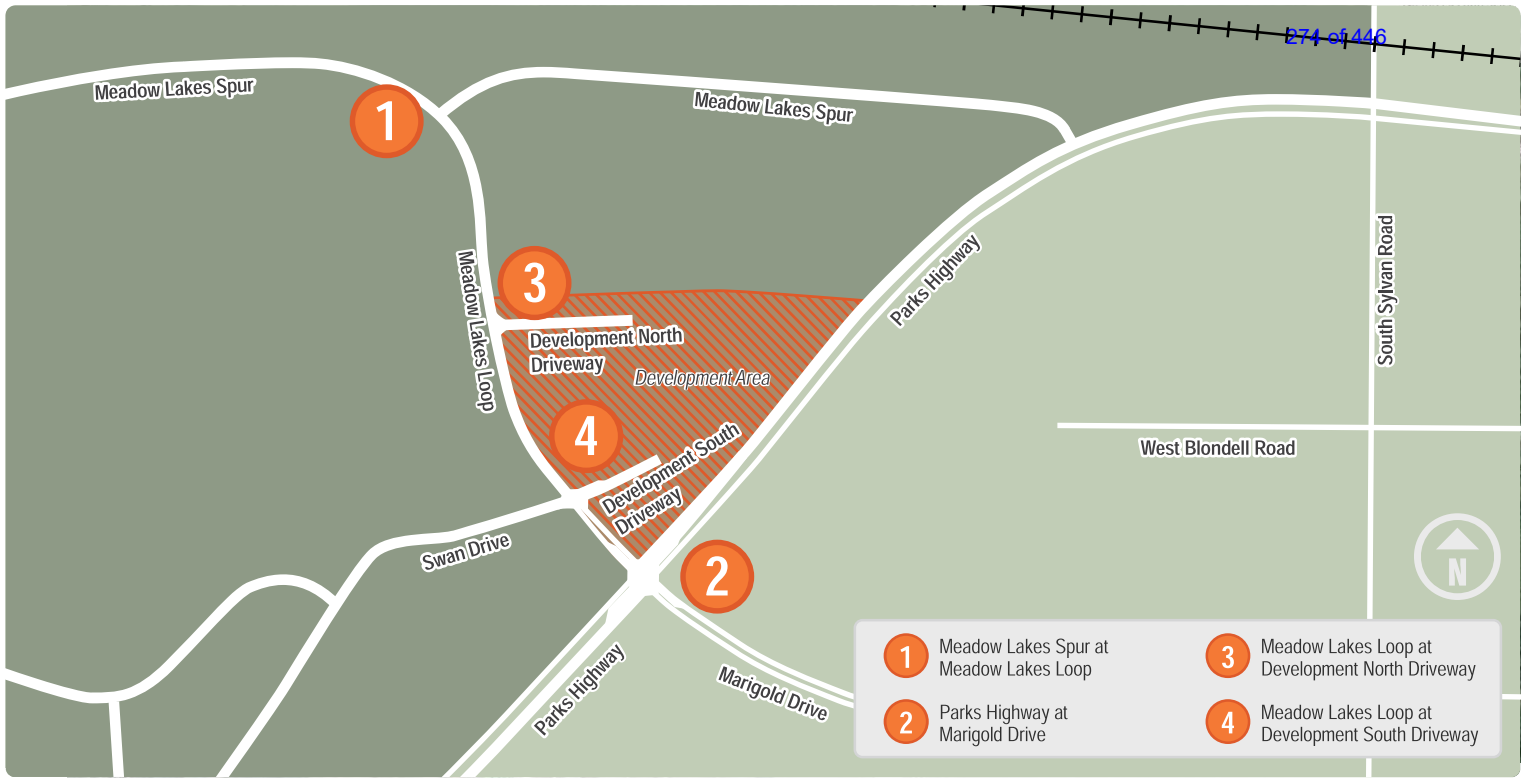


Figure 5: 2023 Build

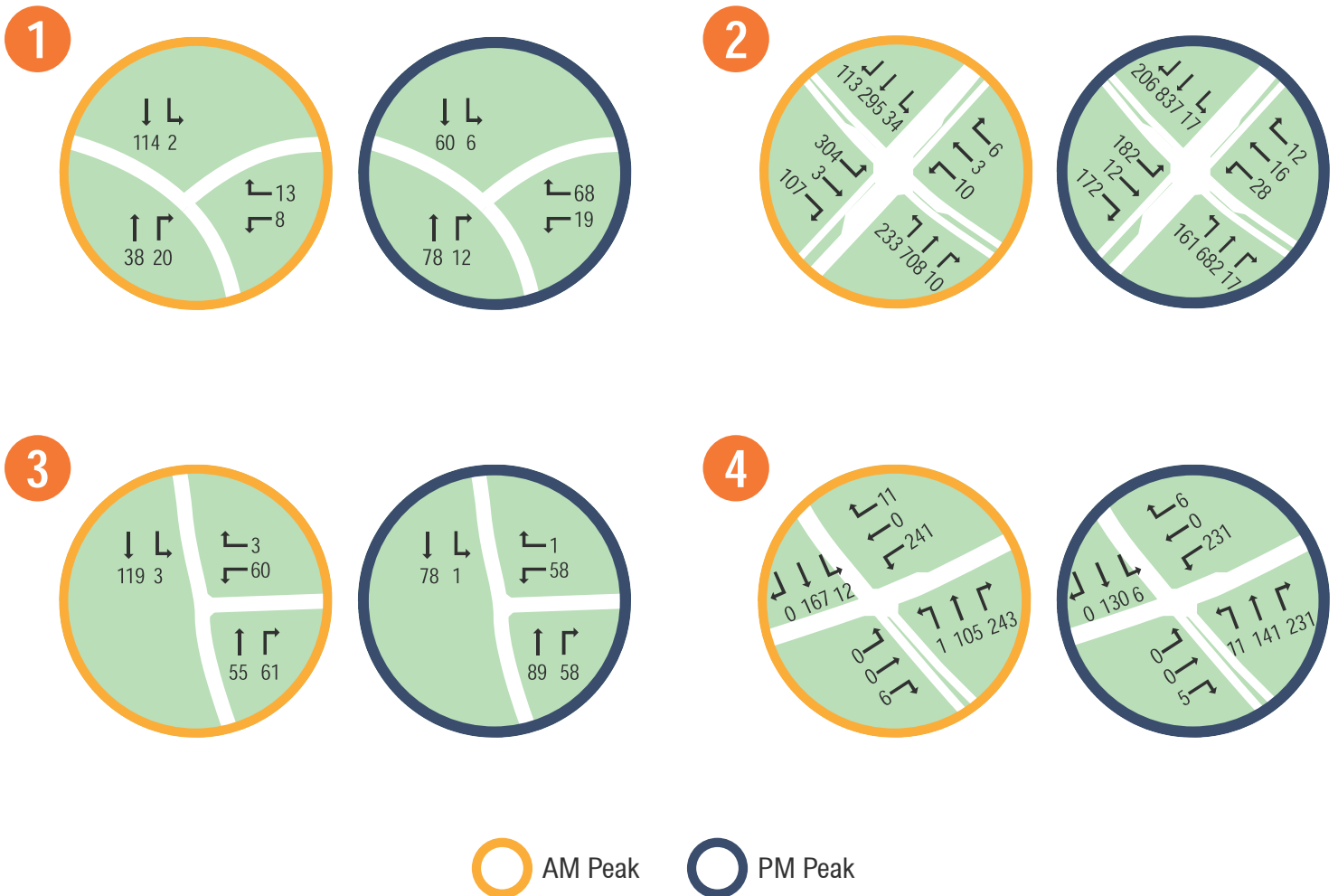
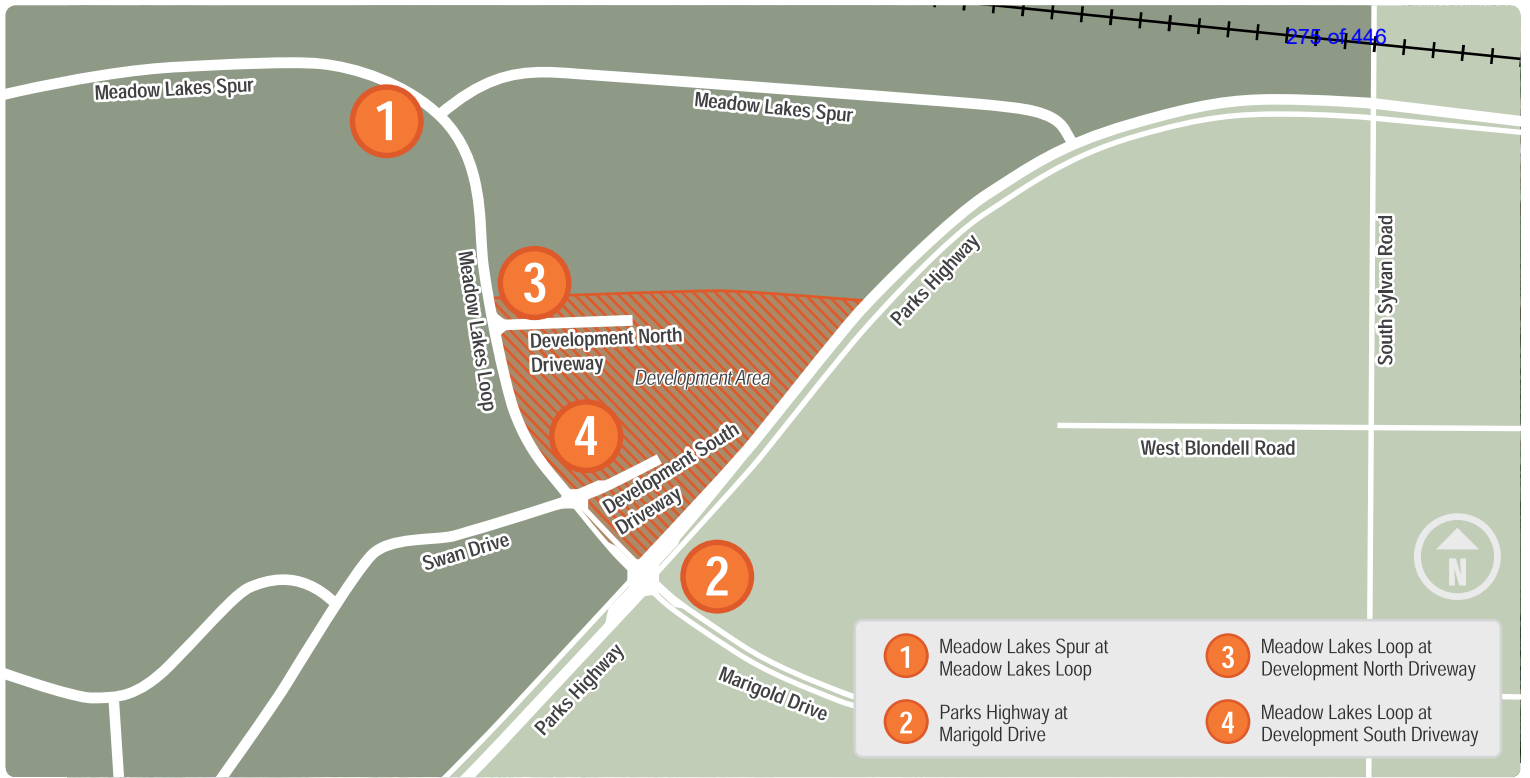


Figure 6: 2033 Build

MEMORANDUM

Turn Lane Warrants

Turn lane warrants were evaluated to determine if turn lanes are needed in the opening year on Meadow Lakes Loop at the entrances to the development. Turn lanes are normally considered to improve safety and operations by removing turning vehicles from the travel lane on Meadow Lakes Loop. The turn-lane warrants presented in this section are for unsignalized intersections.

NCHRP Report 279⁸ included Figure 4-23 which provides the basis for when or when not to include a right turn pocket or a tapered right turn for two-lane highway facilities. This document also mentions that other factors should be considered such as through volumes, vehicle speeds, and pedestrian volumes. Table 9 shows the projected northbound volumes in 2023 at both driveways. The volumes indicate that a northbound right-turn at the south driveway, and a no treatment at the north driveway be recommend. The 2033 build year volumes were also analyzed and the recommendations remained the same.

Table 9. Right-Turn Lane Warrant Volumes (2023 Peak with Development)

2023 Build Year		Northbound				NB Right Turn Lane Warranted?
		Left Turns	Thru	Right Turns	V _a	
North Driveway	AM Peak	0	47	41*	108	None
	PM Peak	0	74	38*	132	None
South Driveway	AM Peak	1	97	243	341	Yes
	PM Peak	9	126	231	366	Yes

*Volumes adjusted per note on Figure 4-23 in NCHRP Report 279

As previously stated, other factors should be considered when evaluating the need for a turn pocket or turn taper. For the south driveway, the estimated overall length of a turn pocket for the southern driveway was evaluated. According to section 4.3 of the AASHTO Green Book⁹, turn lanes should be as wide as through travel lanes. For this project that would result in proposed 12 foot wide right turn lanes. The Green Book also provides information about turn lane lengths. It recommends that turn lanes have a length equal to the shifting and deceleration rate plus the storage length. The recommended lane change and deceleration distance for a road with a 30 mph speed limit is 150 feet. It is also recommended that 20 feet of storage distance be provided resulting in a taper that starts 170 feet from the intersection. When accounting for a 2.5 second perception reaction time (an additional 110 feet of distance), an estimated total length of 280 feet is recommended between the driveway and the upstream traffic signal. With approximately 210 feet of space between the traffic signal and the driveway, the estimated turn lane length using recommended values cannot be accommodated for the south driveway.

While the posted speed limit is 30 mph, the driveway is located just to the north of a signalized intersection. Traffic turning from the Parks Highway will either be accelerating from a full stop or slowing to turn onto the side street. The most likely 85th percentile speed in this segment is 25 mph. With an assumed speed of 25 mph, the lane change and deceleration distance drops to 105 feet and the perception reaction time distance reduces to 92 feet. This retains 13 feet of space for potential queueing.

⁸ National Cooperative Highway Research Program Report 279 Intersection Channelization Design Guide, 1985.

⁹ A Policy on Geometric Design of Highways and Streets, 7th Edition, American Association of State Highway and Transportation Officials, 2018.

MEMORANDUM

A queueing analysis was performed to determine the likelihood queue storage would be necessary. The queues for the northbound traffic are shown in Table 10. As shown, under average conditions there is no standing queue at the south driveway. Only during the 95th percentile queue or maximum queue does the distance imply a single queued vehicle. A queue of this size can easily be accommodated within the taper lane.

Table 10. 2023 Build Queue Lengths

Peak Hour	NB Link Length	Average Queue (ft)*	95 th Percentile Queue (ft)*	Maximum Queue (ft)*
AM Peak	211	0	0	0
PM Peak		0	20	20

*Distances rounded to the nearest 20 feet.

The recommended taper dimensions when accounting for the estimated queue should be a 96-foot straight line taper at 8:1 with 20 feet of full width deceleration length. This allows for the additional 92 feet of perception reaction time to fit within the 210 feet of available space.

The Highway Research Record (HRR) 211 provides guidance on left turning lane warrants on two-lane highways.¹⁰ The guidance provided for total hourly opposing volume of 800 vehicles or less, speeds between 40 and 60 mph, and left-turn volume percentages between 5 and 40 percent. Accordingly, the maximum advancing volume without a left turn lane can be read from the HRR 211 (Reference Figures 2-4 on Pages 9 and 10) given a known left turn percentage and the opposing volume.

Tables 11 shows the total advanced southbound approach volume and the southbound left-turn volume during the critical peak hour in the opening year 2023. Based on the expected turning movement volumes, a southbound left-turn lane is not required at either driveway in 2023. The 2033 build year volumes were also analyzed with both driveways keeping the same recommendations as the 2023 year.

Table 11. Left-Turn Lane Warrant Volumes (2023 Peak with Development)

2023 Build Year		Southbound					NB Opposing Volume	SB Left Turn Lane Warranted?
		Left Turns	Thru	Right Turns	V _a	%LT		
North Driveway	AM Peak	3	100	0	103	3%	47	No
	PM Peak	1	65	0	66	2%	74	No
South Driveway	AM Peak	12	148	0	160	8%	97	No
	PM Peak	6	117	0	123	5%	126	No

¹⁰ Volume Warrants for Left-Turn Storage Lanes at Unsignalized Grade Intersections. Highway Research Record "Issue Number 211", 1967.

MEMORANDUM

CONCLUSIONS

The proposed Holiday development as currently planned will add a maximum of 20 gas pumps, 6,740 square feet of convenience store area, and 3,165 square feet of liquor store area, generating 634 trips in the AM and 592 trips in the PM peak hours. Opening year for the development is expected in 2023. According to the analysis presented in this report, trips generated by the development are not expected to degrade operations at existing intersections to require mitigation.

Turn lane warrants were evaluated to determine if turn lanes are needed in the opening year on Meadow Lakes Loop at the entrances to the development. After evaluation of the driveway volumes, vehicle speeds, and site geometrics a taper lane for the south driveway is recommended. No other turn lanes are warranted.

The recommended taper dimensions when accounting for the estimated queue should be a 96-foot straight line taper at 8:1 with 20 feet of full width deceleration length. This allows for the additional 92 feet of perception reaction time to fit within the 210 feet of available space.

Appendix

Site Information

Trip Generation

HCM Analysis – 2023 No-Build

HCM Analysis – 2033 No-Build

HCM Analysis – 2023 Build

HCM Analysis – 2023 Build

MEMORANDUM

Site Information

MEMORANDUM

Trip Generation

Land Use Description		Liquor Store	Convenience Store/Gas Station	
Subcategory			GFA (5.5-10k)	
ITE Code		899	945	
Units		1000 SF	VFP	
Quantity		3.2	20	
Average Trips	Daily	Rate	107.21	345.75
		Enter %	50%	50%
		Exit %	50%	50%
		Total	343	6915
		Entering	172	3458
	Exiting	172	3458	
	AM Peak Hour	Rate	0.59	31.6
		Enter %	79%	50%
		Exit %	21%	50%
		Total	2	632
		Entering	2	316
	Exiting	0	316	
	PM Peak Hour	Rate	16.62	26.9
		Enter %	50%	50%
		Exit %	50%	50%
Total		53	538	
Entering		27	269	
Exiting	27	269		
Equation Rate	Daily	R^2	0.74	0
		LN?	Y	
		Equation (slope)	0.52	
		Equation (Intercept)	5.75	
		Enter %	50%	
		Exit %	50%	
		Total	575	0
	Entering	288	0	
	Exiting	288	0	
	AM Peak	R^2	0	0
		LN?		
		Equation (slope)		
		Equation (Intercept)		
		Enter %		
		Exit %		
		Total	0	0
	Entering	0	0	
	Exiting	0	0	
PM Peak	R^2	0.73	0	
	LN?	Y		
	Equation (slope)	0.47		
	Equation (Intercept)	3.91		
	Enter %	50%		
	Exit %	50%		
	Total	86	0	
Entering	43	0		
Exiting	43	0		























Trip Generation Summary										
Land Use Code	Subcategory	Average (A) or Equation (E)			Daily		AM		PM	
		Daily	AM	PM	Entering	Exiting	Entering	Exiting	Entering	Exiting
Liquor Store		A	A	A	172	172	2	0	27	27
Convenience Store/Gas Station	GFA (5.5-10k)	A	A	A	3458	3458	316	316	269	269
Total					3630	3630	318	316	296	296

HCM Analysis – 2023 No-Build

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

05/26/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	1	10	8	1	5	22	660	8	28	279	14
Future Volume (veh/h)	82	1	10	8	1	5	22	660	8	28	279	14
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1845	1900	1900	1900	1622	1900	1900	1845	1667	1827	1810	1759
Adj Flow Rate, veh/h	95	1	12	9	1	6	26	767	9	33	324	16
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	3	0	0	0	0	20	0	3	14	4	5	8
Cap, veh/h	712	50	603	722	81	483	517	1402	567	317	1375	598
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1389	126	1508	1423	201	1208	1057	3505	1417	679	3438	1495
Grp Volume(v), veh/h	95	0	13	9	0	7	26	767	9	33	324	16
Grp Sat Flow(s),veh/h/ln	1389	0	1634	1423	0	1409	1057	1752	1417	679	1719	1495
Q Serve(g_s), s	2.0	0.0	0.2	0.2	0.0	0.1	0.8	7.6	0.2	1.8	2.8	0.3
Cycle Q Clear(g_c), s	2.1	0.0	0.2	0.4	0.0	0.1	3.6	7.6	0.2	9.3	2.8	0.3
Prop In Lane	1.00		0.92	1.00		0.86	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	712	0	654	722	0	564	517	1402	567	317	1375	598
V/C Ratio(X)	0.13	0.00	0.02	0.01	0.00	0.01	0.05	0.55	0.02	0.10	0.24	0.03
Avail Cap(c_a), veh/h	712	0	654	722	0	564	517	1402	567	317	1375	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.8	0.0	8.2	8.3	0.0	8.1	10.1	10.4	8.2	14.0	8.9	8.2
Incr Delay (d2), s/veh	0.4	0.0	0.1	0.0	0.0	0.0	0.2	1.5	0.1	0.7	0.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.1	0.1	0.0	0.1	0.2	3.9	0.1	0.4	1.4	0.1
LnGrp Delay(d),s/veh	9.2	0.0	8.2	8.3	0.0	8.2	10.3	11.9	8.2	14.6	9.3	8.3
LnGrp LOS	A		A	A		A	B	B	A	B	A	A
Approach Vol, veh/h		108			16			802			373	
Approach Delay, s/veh		9.1			8.3			11.8			9.8	
Approach LOS		A			A			B			A	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		2.4		9.6		4.1		11.3				
Green Ext Time (p_c), s		0.0		3.0		0.2		1.1				
Intersection Summary												
HCM 2010 Ctrl Delay			11.0									
HCM 2010 LOS			B									

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	1.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	11	24	12	2	82
Future Vol, veh/h	6	11	24	12	2	82
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	17	0	0	9	0	0
Mvmt Flow	7	13	28	14	2	95

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	134	35	0	0	42
Stage 1	35	-	-	-	-
Stage 2	99	-	-	-	-
Critical Hdwy	6.57	6.2	-	-	4.1
Critical Hdwy Stg 1	5.57	-	-	-	-
Critical Hdwy Stg 2	5.57	-	-	-	-
Follow-up Hdwy	3.653	3.3	-	-	2.2
Pot Cap-1 Maneuver	825	1044	-	-	1580
Stage 1	950	-	-	-	-
Stage 2	889	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	824	1044	-	-	1580
Mov Cap-2 Maneuver	824	-	-	-	-
Stage 1	950	-	-	-	-
Stage 2	888	-	-	-	-























Approach	WB	NB	SB
HCM Control Delay, s	8.9	0	0.2
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	954	1580
HCM Lane V/C Ratio	-	-	0.021	0.001
HCM Control Delay (s)	-	-	8.9	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

05/26/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	6	12	23	9	10	28	604	14	14	742	40
Future Volume (veh/h)	45	6	12	23	9	10	28	604	14	14	742	40
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1617	1900	1900	1609	1900	1696	1810	1900	1652	1881	1900
Adj Flow Rate, veh/h	49	7	13	25	10	11	30	657	15	15	807	43
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	50	0	0	38	0	12	5	0	15	1	0
Cap, veh/h	713	203	377	714	281	309	292	1375	646	335	1430	646
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1413	508	943	1414	701	771	588	3438	1615	676	3574	1615
Grp Volume(v), veh/h	49	0	20	25	0	21	30	657	15	15	807	43
Grp Sat Flow(s),veh/h/ln	1413	0	1451	1414	0	1473	588	1719	1615	676	1787	1615
Q Serve(g_s), s	1.0	0.0	0.4	0.5	0.0	0.4	1.9	6.4	0.3	0.8	7.9	0.7
Cycle Q Clear(g_c), s	1.4	0.0	0.4	0.9	0.0	0.4	9.7	6.4	0.3	7.1	7.9	0.7
Prop In Lane	1.00		0.65	1.00		0.52	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	713	0	580	714	0	589	292	1375	646	335	1430	646
V/C Ratio(X)	0.07	0.00	0.03	0.04	0.00	0.04	0.10	0.48	0.02	0.04	0.56	0.07
Avail Cap(c_a), veh/h	713	0	580	714	0	589	292	1375	646	335	1430	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.6	0.0	8.2	8.5	0.0	8.2	14.2	10.0	8.2	12.7	10.5	8.3
Incr Delay (d2), s/veh	0.2	0.0	0.1	0.1	0.0	0.1	0.7	1.2	0.1	0.3	1.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.2	0.2	0.0	0.2	0.4	3.2	0.1	0.2	4.1	0.4
LnGrp Delay(d),s/veh	8.8	0.0	8.3	8.6	0.0	8.3	14.9	11.2	8.2	12.9	12.1	8.5
LnGrp LOS	A		A	A		A	B	B	A	B	B	A
Approach Vol, veh/h		69			46			702			865	
Approach Delay, s/veh		8.7			8.5			11.3			11.9	
Approach LOS		A			A			B			B	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5			22.5	
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5			4.5	
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0			18.0	
Max Q Clear Time (g_c+I1), s		2.9		11.7		3.4		9.9				
Green Ext Time (p_c), s		0.1		2.2		0.1		3.1				
Intersection Summary												
HCM 2010 Ctrl Delay			11.4									
HCM 2010 LOS			B									

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	14	56	59	9	5	45
Future Vol, veh/h	14	56	59	9	5	45
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	2	9	0	0	7
Mvmt Flow	16	65	69	10	6	52

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	138	74	0	0	79
Stage 1	74	-	-	-	-
Stage 2	64	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.1
Critical Hdwy Stg 1	5.4	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.2
Pot Cap-1 Maneuver	860	988	-	-	1532
Stage 1	954	-	-	-	-
Stage 2	964	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	857	988	-	-	1532
Mov Cap-2 Maneuver	857	-	-	-	-
Stage 1	954	-	-	-	-
Stage 2	960	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.1	0	0.7
HCM LOS	A		























Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	959	1532
HCM Lane V/C Ratio	-	-	0.085	0.004
HCM Control Delay (s)	-	-	9.1	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0

HCM Analysis – 2033 No-Build

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

05/26/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	100	1	12	10	1	6	27	805	10	34	340	17
Future Volume (veh/h)	100	1	12	10	1	6	27	805	10	34	340	17
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1845	1900	1900	1900	1617	1900	1900	1845	1667	1827	1810	1759
Adj Flow Rate, veh/h	116	1	14	12	1	7	31	936	12	40	395	20
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	3	0	0	0	0	20	0	3	14	4	5	8
Cap, veh/h	710	44	609	720	70	490	478	1402	567	265	1375	598
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1388	109	1523	1421	175	1226	987	3505	1417	578	3438	1495
Grp Volume(v), veh/h	116	0	15	12	0	8	31	936	12	40	395	20
Grp Sat Flow(s),veh/h/ln	1388	0	1631	1421	0	1401	987	1752	1417	578	1719	1495
Q Serve(g_s), s	2.5	0.0	0.3	0.2	0.0	0.2	1.0	9.8	0.2	2.7	3.5	0.4
Cycle Q Clear(g_c), s	2.6	0.0	0.3	0.5	0.0	0.2	4.5	9.8	0.2	12.6	3.5	0.4
Prop In Lane	1.00		0.93	1.00		0.88	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	710	0	653	720	0	560	478	1402	567	265	1375	598
V/C Ratio(X)	0.16	0.00	0.02	0.02	0.00	0.01	0.06	0.67	0.02	0.15	0.29	0.03
Avail Cap(c_a), veh/h	710	0	653	720	0	560	478	1402	567	265	1375	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.9	0.0	8.2	8.3	0.0	8.1	10.7	11.1	8.2	16.2	9.2	8.2
Incr Delay (d2), s/veh	0.5	0.0	0.1	0.0	0.0	0.0	0.3	2.5	0.1	1.2	0.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	0.1	0.1	0.0	0.1	0.3	5.2	0.1	0.5	1.7	0.2
LnGrp Delay(d),s/veh	9.4	0.0	8.2	8.4	0.0	8.2	10.9	13.6	8.2	17.4	9.7	8.3
LnGrp LOS	A		A	A		A	B	B	A	B	A	A
Approach Vol, veh/h		131			20			979			455	
Approach Delay, s/veh		9.3			8.3			13.4			10.3	
Approach LOS		A			A			B			B	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		2.5		11.8		4.6		14.6				
Green Ext Time (p_c), s		0.0		2.9		0.3		0.9				
Intersection Summary												
HCM 2010 Ctrl Delay				12.1								
HCM 2010 LOS				B								

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	1.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	13	29	15	2	100
Future Vol, veh/h	7	13	29	15	2	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	17	0	0	9	0	0
Mvmt Flow	8	15	34	17	2	116

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	163	43	0	0	51	0
Stage 1	43	-	-	-	-	-
Stage 2	120	-	-	-	-	-
Critical Hdwy	6.57	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.57	-	-	-	-	-
Critical Hdwy Stg 2	5.57	-	-	-	-	-
Follow-up Hdwy	3.653	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	794	1033	-	-	1568	-
Stage 1	942	-	-	-	-	-
Stage 2	869	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	793	1033	-	-	1568	-
Mov Cap-2 Maneuver	793	-	-	-	-	-
Stage 1	942	-	-	-	-	-
Stage 2	868	-	-	-	-	-























Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	934	1568
HCM Lane V/C Ratio	-	-	0.025	0.001
HCM Control Delay (s)	-	-	9	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

05/26/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	55	7	15	28	11	12	34	736	17	17	904	49
Future Volume (veh/h)	55	7	15	28	11	12	34	736	17	17	904	49
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1629	1900	1900	1607	1900	1696	1810	1900	1652	1881	1900
Adj Flow Rate, veh/h	60	8	16	30	12	13	37	800	18	18	983	53
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	50	0	0	38	0	12	5	0	15	1	0
Cap, veh/h	709	194	389	709	283	306	245	1375	646	289	1430	646
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1408	486	971	1409	706	765	494	3438	1615	590	3574	1615
Grp Volume(v), veh/h	60	0	24	30	0	25	37	800	18	18	983	53
Grp Sat Flow(s),veh/h/ln	1408	0	1457	1409	0	1472	494	1719	1615	590	1787	1615
Q Serve(g_s), s	1.2	0.0	0.5	0.6	0.0	0.5	3.0	8.2	0.3	1.1	10.2	0.9
Cycle Q Clear(g_c), s	1.7	0.0	0.5	1.0	0.0	0.5	13.3	8.2	0.3	9.3	10.2	0.9
Prop In Lane	1.00		0.67	1.00		0.52	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	709	0	583	709	0	589	245	1375	646	289	1430	646
V/C Ratio(X)	0.08	0.00	0.04	0.04	0.00	0.04	0.15	0.58	0.03	0.06	0.69	0.08
Avail Cap(c_a), veh/h	709	0	583	709	0	589	245	1375	646	289	1430	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.8	0.0	8.2	8.6	0.0	8.2	16.7	10.6	8.2	14.2	11.2	8.4
Incr Delay (d2), s/veh	0.2	0.0	0.1	0.1	0.0	0.1	1.3	1.8	0.1	0.4	2.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.2	0.3	0.0	0.2	0.5	4.1	0.1	0.2	5.5	0.4
LnGrp Delay(d),s/veh	9.0	0.0	8.4	8.7	0.0	8.4	18.0	12.4	8.3	14.6	13.9	8.6
LnGrp LOS	A		A	A		A	B	B	A	B	B	A
Approach Vol, veh/h		84			55			855			1054	
Approach Delay, s/veh		8.8			8.5			12.5			13.6	
Approach LOS		A			A			B			B	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		3.0		15.3		3.7		12.2				
Green Ext Time (p_c), s		0.1		1.4		0.2		3.0				
Intersection Summary												
HCM 2010 Ctrl Delay			12.8									
HCM 2010 LOS			B									

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	17	68	72	11	6	55
Future Vol, veh/h	17	68	72	11	6	55
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	2	9	0	0	7
Mvmt Flow	20	79	84	13	7	64

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	169	91	0	0	97
Stage 1	91	-	-	-	-
Stage 2	78	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.1
Critical Hdwy Stg 1	5.4	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.2
Pot Cap-1 Maneuver	826	967	-	-	1509
Stage 1	938	-	-	-	-
Stage 2	950	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	822	967	-	-	1509
Mov Cap-2 Maneuver	822	-	-	-	-
Stage 1	938	-	-	-	-
Stage 2	945	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	0.7
HCM LOS	A		























Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	934	1509
HCM Lane V/C Ratio	-	-	0.106	0.005
HCM Control Delay (s)	-	-	9.3	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.4	0

HCM Analysis – 2023 Build

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

06/21/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	286	3	105	8	3	5	228	563	8	28	234	110
Future Volume (veh/h)	286	3	105	8	3	5	228	563	8	28	234	110
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1845	1900	1900	1900	1676	1900	1900	1845	1667	1827	1810	1759
Adj Flow Rate, veh/h	333	3	122	9	3	6	265	655	9	33	272	128
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	3	0	0	0	0	20	0	3	14	4	5	8
Cap, veh/h	710	16	633	610	200	400	509	1402	567	358	1375	598
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1387	39	1582	1286	500	1000	1000	3505	1417	754	3438	1495
Grp Volume(v), veh/h	333	0	125	9	0	9	265	655	9	33	272	128
Grp Sat Flow(s),veh/h/ln	1387	0	1621	1286	0	1500	1000	1752	1417	754	1719	1495
Q Serve(g_s), s	8.6	0.0	2.3	0.2	0.0	0.2	10.6	6.2	0.2	1.5	2.3	2.5
Cycle Q Clear(g_c), s	8.7	0.0	2.3	2.5	0.0	0.2	12.9	6.2	0.2	7.7	2.3	2.5
Prop In Lane	1.00		0.98	1.00		0.67	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	710	0	648	610	0	600	509	1402	567	358	1375	598
V/C Ratio(X)	0.47	0.00	0.19	0.01	0.00	0.01	0.52	0.47	0.02	0.09	0.20	0.21
Avail Cap(c_a), veh/h	710	0	648	610	0	600	509	1402	567	358	1375	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.8	0.0	8.8	9.6	0.0	8.1	13.0	10.0	8.2	12.8	8.8	8.9
Incr Delay (d2), s/veh	2.2	0.0	0.7	0.0	0.0	0.0	3.8	1.1	0.1	0.5	0.3	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	0.0	1.1	0.1	0.0	0.1	3.4	3.1	0.1	0.4	1.2	1.2
LnGrp Delay(d),s/veh	13.0	0.0	9.4	9.6	0.0	8.2	16.8	11.1	8.2	13.3	9.1	9.7
LnGrp LOS	B		A	A		A	B	B	A	B	A	A
Approach Vol, veh/h		458			18			929			433	
Approach Delay, s/veh		12.0			8.9			12.7			9.6	
Approach LOS		B			A			B			A	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		4.5		14.9		10.7		9.7				
Green Ext Time (p_c), s		0.0		1.5		1.1		1.3				
Intersection Summary												
HCM 2010 Ctrl Delay				11.8								
HCM 2010 LOS				B								

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	7	11	33	17	2	96
Future Vol, veh/h	7	11	33	17	2	96
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	17	0	0	9	0	0
Mvmt Flow	8	13	38	20	2	112

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	164	48	0	0	58
Stage 1	48	-	-	-	-
Stage 2	116	-	-	-	-
Critical Hdwy	6.57	6.2	-	-	4.1
Critical Hdwy Stg 1	5.57	-	-	-	-
Critical Hdwy Stg 2	5.57	-	-	-	-
Follow-up Hdwy	3.653	3.3	-	-	2.2
Pot Cap-1 Maneuver	793	1027	-	-	1559
Stage 1	937	-	-	-	-
Stage 2	873	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	792	1027	-	-	1559
Mov Cap-2 Maneuver	792	-	-	-	-
Stage 1	937	-	-	-	-
Stage 2	872	-	-	-	-























Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	921	1559
HCM Lane V/C Ratio	-	-	0.023	0.001
HCM Control Delay (s)	-	-	9	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

06/21/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	172	11	169	23	14	10	155	550	14	14	675	197
Future Volume (veh/h)	172	11	169	23	14	10	155	550	14	14	675	197
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1844	1900	1900	1558	1900	1696	1810	1900	1652	1881	1900
Adj Flow Rate, veh/h	187	12	184	25	15	11	168	598	15	15	734	214
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	50	0	0	38	0	12	5	0	15	1	0
Cap, veh/h	536	30	458	374	258	189	347	1862	875	438	1936	875
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31	0.54	0.54	0.54	0.54	0.54	0.54
Sat Flow, veh/h	1407	97	1485	1206	837	614	537	3438	1615	715	3574	1615
Grp Volume(v), veh/h	187	0	196	25	0	26	168	598	15	15	734	214
Grp Sat Flow(s),veh/h/ln	1407	0	1582	1206	0	1450	537	1719	1615	715	1787	1615
Q Serve(g_s), s	6.5	0.0	5.9	1.0	0.0	0.8	15.8	5.8	0.3	0.7	7.1	4.2
Cycle Q Clear(g_c), s	7.2	0.0	5.9	6.9	0.0	0.8	22.9	5.8	0.3	6.5	7.1	4.2
Prop In Lane	1.00		0.94	1.00		0.42	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	536	0	488	374	0	447	347	1862	875	438	1936	875
V/C Ratio(X)	0.35	0.00	0.40	0.07	0.00	0.06	0.48	0.32	0.02	0.03	0.38	0.24
Avail Cap(c_a), veh/h	536	0	488	374	0	447	347	1862	875	438	1936	875
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.2	0.0	16.4	19.1	0.0	14.6	14.5	7.6	6.4	9.4	7.9	7.3
Incr Delay (d2), s/veh	1.8	0.0	2.5	0.3	0.0	0.2	4.8	0.5	0.0	0.1	0.6	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	2.9	0.4	0.0	0.3	2.8	2.9	0.1	0.2	3.6	2.0
LnGrp Delay(d),s/veh	19.0	0.0	18.8	19.4	0.0	14.9	19.3	8.1	6.4	9.6	8.5	7.9
LnGrp LOS	B		B	B		B	B	A	A	A	A	A
Approach Vol, veh/h		383			51			781			963	
Approach Delay, s/veh		18.9			17.1			10.5			8.4	
Approach LOS		B			B			B			A	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		23.0		37.0		23.0		37.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.5		32.5		18.5		32.5				
Max Q Clear Time (g_c+I1), s		8.9		24.9		9.2		9.1				
Green Ext Time (p_c), s		0.1		3.1		1.2		5.3				
Intersection Summary												
HCM 2010 Ctrl Delay				11.2								
HCM 2010 LOS				B								

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	3.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	16	56	65	10	5	50
Future Vol, veh/h	16	56	65	10	5	50
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	2	9	0	0	7
Mvmt Flow	19	65	76	12	6	58

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	152	82	0	0	88
Stage 1	82	-	-	-	-
Stage 2	70	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.1
Critical Hdwy Stg 1	5.4	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.2
Pot Cap-1 Maneuver	844	978	-	-	1520
Stage 1	946	-	-	-	-
Stage 2	958	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	841	978	-	-	1520
Mov Cap-2 Maneuver	841	-	-	-	-
Stage 1	946	-	-	-	-
Stage 2	954	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.2	0	0.7
HCM LOS	A		























Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	944	1520
HCM Lane V/C Ratio	-	-	0.089	0.004
HCM Control Delay (s)	-	-	9.2	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0

HCM Analysis – 2033 Build

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

06/21/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	304	3	107	10	3	6	233	708	10	34	295	113
Future Volume (veh/h)	304	3	107	10	3	6	233	708	10	34	295	113
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1845	1900	1900	1900	1667	1900	1900	1845	1667	1827	1810	1759
Adj Flow Rate, veh/h	353	3	124	12	3	7	271	823	12	40	343	131
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	3	0	0	0	0	20	0	3	14	4	5	8
Cap, veh/h	709	15	633	608	178	415	472	1402	567	299	1375	598
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	1385	38	1582	1284	445	1038	934	3505	1417	643	3438	1495
Grp Volume(v), veh/h	353	0	127	12	0	10	271	823	12	40	343	131
Grp Sat Flow(s),veh/h/ln	1385	0	1621	1284	0	1483	934	1752	1417	643	1719	1495
Q Serve(g_s), s	9.3	0.0	2.3	0.3	0.0	0.2	12.3	8.3	0.2	2.3	3.0	2.6
Cycle Q Clear(g_c), s	9.5	0.0	2.3	2.6	0.0	0.2	15.2	8.3	0.2	10.6	3.0	2.6
Prop In Lane	1.00		0.98	1.00		0.70	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	709	0	648	608	0	593	472	1402	567	299	1375	598
V/C Ratio(X)	0.50	0.00	0.20	0.02	0.00	0.02	0.57	0.59	0.02	0.13	0.25	0.22
Avail Cap(c_a), veh/h	709	0	648	608	0	593	472	1402	567	299	1375	598
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.0	0.0	8.8	9.6	0.0	8.2	14.1	10.6	8.2	14.8	9.0	8.9
Incr Delay (d2), s/veh	2.5	0.0	0.7	0.1	0.0	0.1	5.0	1.8	0.1	0.9	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	1.1	0.1	0.0	0.1	3.7	4.2	0.1	0.5	1.5	1.2
LnGrp Delay(d),s/veh	13.5	0.0	9.5	9.7	0.0	8.2	19.1	12.4	8.2	15.7	9.4	9.7
LnGrp LOS	B		A	A		A	B	B	A	B	A	A
Approach Vol, veh/h		480			22			1106			514	
Approach Delay, s/veh		12.4			9.0			14.0			10.0	
Approach LOS		B			A			B			A	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.5		22.5		22.5		22.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		4.6		17.2		11.5		12.6				
Green Ext Time (p_c), s		0.0		0.5		1.1		1.3				
Intersection Summary												
HCM 2010 Ctrl Delay			12.6									
HCM 2010 LOS			B									

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	8	13	38	20	2	114
Future Vol, veh/h	8	13	38	20	2	114
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	17	0	0	9	0	0
Mvmt Flow	9	15	44	23	2	133

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	193	56	0	0	67
Stage 1	56	-	-	-	-
Stage 2	137	-	-	-	-
Critical Hdwy	6.57	6.2	-	-	4.1
Critical Hdwy Stg 1	5.57	-	-	-	-
Critical Hdwy Stg 2	5.57	-	-	-	-
Follow-up Hdwy	3.653	3.3	-	-	2.2
Pot Cap-1 Maneuver	763	1016	-	-	1547
Stage 1	930	-	-	-	-
Stage 2	854	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	762	1016	-	-	1547
Mov Cap-2 Maneuver	762	-	-	-	-
Stage 1	930	-	-	-	-
Stage 2	853	-	-	-	-























Approach	WB	NB	SB
HCM Control Delay, s	9.1	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	902	1547
HCM Lane V/C Ratio	-	-	0.027	0.002
HCM Control Delay (s)	-	-	9.1	7.3
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 2010 Signalized Intersection Summary

1: Parks Highway & Meadow Lakes Loop/Marigold Drive

06/21/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	182	12	172	28	16	12	161	682	17	17	837	206
Future Volume (veh/h)	182	12	172	28	16	12	161	682	17	17	837	206
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1840	1900	1900	1563	1900	1696	1810	1900	1652	1881	1900
Adj Flow Rate, veh/h	198	13	187	30	17	13	175	741	18	18	910	224
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	50	0	0	38	0	12	5	0	15	1	0
Cap, veh/h	527	31	450	365	251	192	295	1874	880	382	1948	880
Arrive On Green	0.30	0.30	0.30	0.30	0.30	0.30	0.55	0.55	0.55	0.55	0.55	0.55
Sat Flow, veh/h	1401	103	1477	1201	823	629	450	3438	1615	624	3574	1615
Grp Volume(v), veh/h	198	0	200	30	0	30	175	741	18	18	910	224
Grp Sat Flow(s),veh/h/ln	1401	0	1580	1201	0	1452	450	1719	1615	624	1787	1615
Q Serve(g_s), s	7.0	0.0	6.0	1.2	0.0	0.9	23.3	7.5	0.3	1.0	9.3	4.4
Cycle Q Clear(g_c), s	7.9	0.0	6.0	7.3	0.0	0.9	32.6	7.5	0.3	8.5	9.3	4.4
Prop In Lane	1.00		0.94	1.00		0.43	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	527	0	482	365	0	443	295	1874	880	382	1948	880
V/C Ratio(X)	0.38	0.00	0.42	0.08	0.00	0.07	0.59	0.40	0.02	0.05	0.47	0.25
Avail Cap(c_a), veh/h	527	0	482	365	0	443	295	1874	880	382	1948	880
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.6	0.0	16.6	19.5	0.0	14.8	18.3	7.9	6.3	10.4	8.3	7.2
Incr Delay (d2), s/veh	2.0	0.0	2.6	0.4	0.0	0.3	8.5	0.6	0.0	0.2	0.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	3.0	0.4	0.0	0.4	3.6	3.7	0.1	0.2	4.8	2.1
LnGrp Delay(d),s/veh	19.6	0.0	19.2	19.9	0.0	15.1	26.8	8.5	6.3	10.6	9.1	7.9
LnGrp LOS	B		B	B		B	C	A	A	B	A	A
Approach Vol, veh/h		398			60			934			1152	
Approach Delay, s/veh		19.4			17.5			11.9			8.9	
Approach LOS		B			B			B			A	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		22.8		37.2		22.8		37.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.3		32.7		18.3		32.7				
Max Q Clear Time (g_c+I1), s		9.3		34.6		9.9		11.3				
Green Ext Time (p_c), s		0.1		0.0		1.2		6.6				
Intersection Summary												
HCM 2010 Ctrl Delay				11.9								
HCM 2010 LOS				B								

HCM 2010 TWSC

2: Meadow Lakes Loop & Meadow Lakes Spur

11/14/2023

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	19	68	78	12	6	60
Future Vol, veh/h	19	68	78	12	6	60
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	2	9	0	0	7
Mvmt Flow	22	79	91	14	7	70

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	182	98	0	0	105	0
Stage 1	98	-	-	-	-	-
Stage 2	84	-	-	-	-	-
Critical Hdwy	6.4	6.22	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.318	-	-	2.2	-
Pot Cap-1 Maneuver	812	958	-	-	1499	-
Stage 1	931	-	-	-	-	-
Stage 2	944	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	808	958	-	-	1499	-
Mov Cap-2 Maneuver	808	-	-	-	-	-
Stage 1	931	-	-	-	-	-
Stage 2	939	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.4	0	0.7
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	921	1499
HCM Lane V/C Ratio	-	-	0.11	0.005
HCM Control Delay (s)	-	-	9.4	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.4	0

SimTraffic– 2023 Build Queuing Reports

**IPVTQFWEVKQP'HQT"
PUBLIC HEARING:"
LEGISLATIVE MATTERS**

Resolution No. 24-38

I gqi tcr j ke'Tgpcoko pi "Ctnmug"

Rgcm

This Page Intentionally Left Blank



THE STATE of ALASKA

GOVERNOR MICHAEL J. DUNLEAVY

Department of Natural Resources

DIVISION OF PARKS & OUTDOOR RECREATION Office of History and Archaeology

550 West 7th Avenue, Suite 1310 Anchorage, AK 99501-3565 907.269.8721 http://dnr.alaska.gov/parks/oha

June 3, 2024

Re: 3050-4 Arkose Peak

Matanuska-Susitna Borough 350 E Dahlia Ave Palmer, Alaska 99645 mike.brown@matsugov.us cc: Peggy.Horton@matsugov.us

Dear Borough Manager,

The Alaska Historical Commission has received a geographic name proposal to name a currently unnamed 5,325-foot mountain peak on Arkose Ridge between the head of Lone Tree Gulch and the head of Iron Creek in the Matanuska-Susitna Borough, north of Palmer. The proposed name is "Arkose Peak", and this proposal is concurrent with a proposal to rename the current "Arkose Peak" as "Souvenir Peak." A copy of the proposal is enclosed for review, as well as a map showing the feature's location, and the guidelines for geographic names that the Alaska Historical Commission members have established.

The commission would appreciate your comments on the proposed name. To object or to endorse the proposed name, you must respond in writing. Your comments need to be received by August 15, 2024. You can respond with a letter or by writing your comments in the box below. Please send your comments by mail to the address above or by email to dnr.oha@alaska.gov.

If you have any questions about the state geographic names program, please contact Katie Ringsmuth at email katie.ringsmuth@alaska.gov or by phone at (907) 269-8714.

Sincerely,

[Handwritten signature of Katherine Ringsmuth]

Katherine Ringsmuth Geographic Names Coordinator and State Historian KJR: mms

Enclosures

I ___ object / ___ endorse the proposed name because: _____ Signed: _____ Date: _____

This proposal was submitted by the chair of the Mountaineering Club of Alaska (MCA) Geographic Names Committee to change the name “Arkose Peak.” In 1969, at the request of the MCA, the federal Board of Geographic Names (BGN) approved the name “Arkose Peak” for the 5,804-foot peak (subject of the concurrent proposal for “Souvenir Peak”) in Sections 26 & 35, Township 20 North, Range 2 East. According to the BGN, the original 1969 case brief proposing “Arkose Peak” included the notation that “Arkose” was “[proposed] because of the type of granitic rock present.” However, since 1985, USGS topographic maps have mistakenly placed the label, applying it instead to the 5,325-foot peak in Section 3, Township 19 North, Range 2 East, approximately 1.3 miles to the southeast of its intended location (and the location of the new proposed “Arkose Peak”). Because of this discrepancy, the incorrect location became known locally as “Arkose Peak,” while the 1969 named peak is now locally known as “Souvenir Peak.” This proposal is to recognize the local use of the name “Arkose Peak” with the correct 5,325-foot summit, listed in MCA publications between 1986 and 2019, along with the concurrent proposed name of “Souvenir Peak.”

According to the proponents, “Now that the Anchorage D-6 SE and Anchorage D-S SW maps have been published (2023), local map users are questioning the placement of the ‘Arkose Peak’ label on the location now commonly known as ‘Souvenir Peak.’” They further state that, “because the name ‘Arkose Peak’ is now in common use for the 5,325-foot peak at the southeast head of Lone Tree Gulch, we propose to adjust the placement of the BGN-approved name ‘Arkose Peak’ to that location.” The proposed location also brings “Arkose Peak” closer to the main part of the ridge, which is named “Arkose Ridge.”

Orth’s *Dictionary of Alaska Place Names* (1967) does not list this peak and notes that “Arkose Ridge” and “Arkose Peak” were local names reported by USGS in 1962 (pg. 87), presumably referring to the “Arkose Peak” named in the previous geographic name proposal in the 1960s, now proposed to be changed to “Souvenir Peak.” The originally named “Arkose Peak” (proposed new name of “Souvenir Peak”) and its neighboring Arkose Ridge are reported as the Ahtna name “Tsida K’ae Dgilaaye” in *Shem Pete’s Alaska: The Territory of Upper Cook Inlet Dena’ina* (Revised 2nd Edition, 2016, pg. 297) by James Kari and James A. Fall, with principal contributor Shem Pete. Here, “Tsida K’ae Dghilaaye” means “Grandmother’s Place Mountain” in Ahtna (Kari & Fall, 2016, pg. 297).

sF

Is the recommended name in local usage? Yes No If Yes, approximately how many years? 40-50

Is there local opposition to, or conflict with the recommended name (as located)? None Listed

For proposed new name, please provide evidence that feature is unnamed: None listed

Additional information:

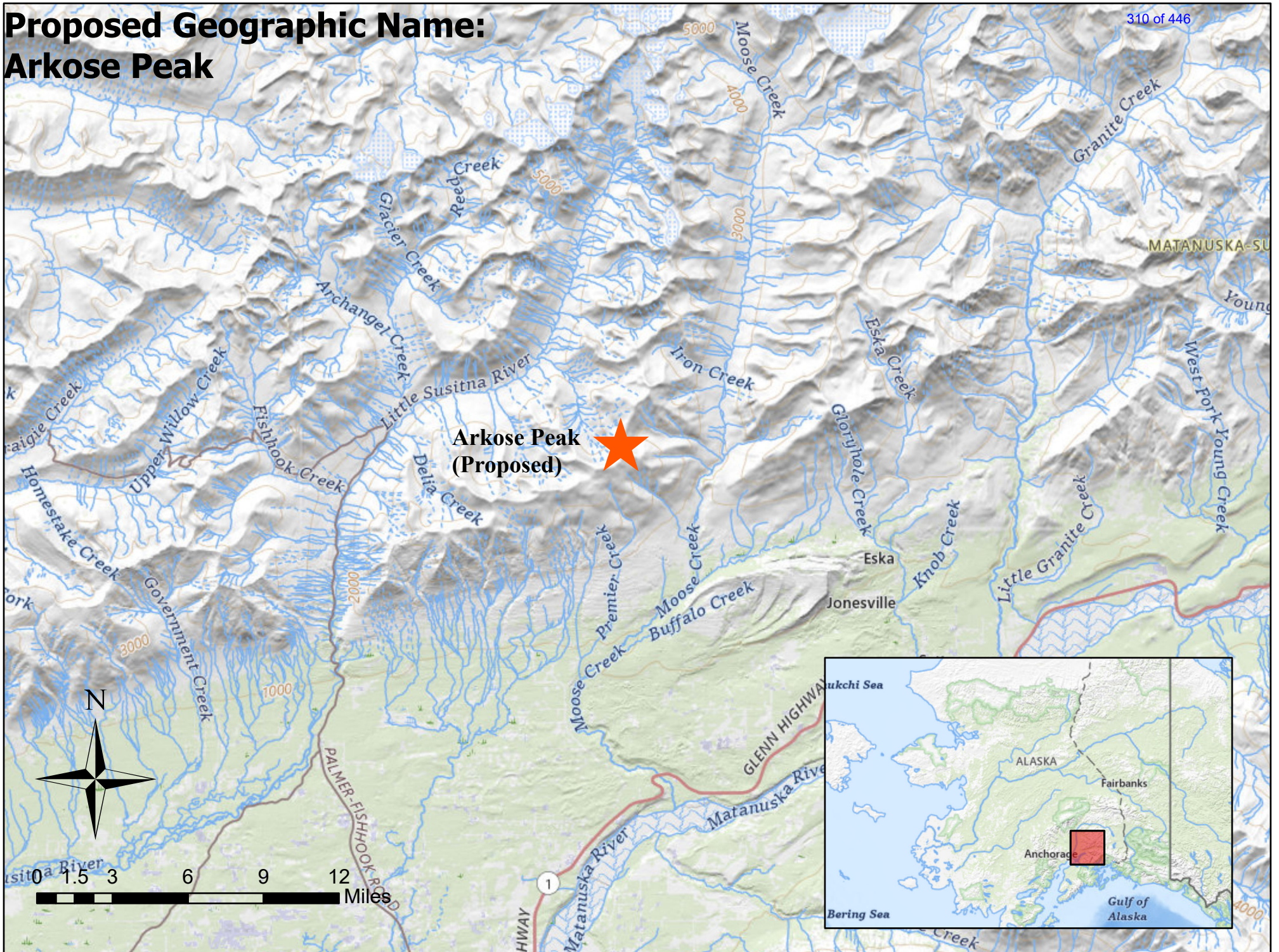
The mountain is on State land in the Matanuska-Susitna Borough in the Hatcher Pass Planning Area.

Organizations for Consultation:

- Chickaloon Native Village
- Cook Inlet Regional, Inc.
- Cook Inlet Tribal Council
- Knik Tribal Council
- Matanuska-Susitna Borough
- Mountaineering Club of Alaska
- Native Village of Eklutna
- State of Alaska, Department of Natural Resources, Division of Mining, Land, and Water
- State of Alaska, Department of Natural Resources, Division of Parks and Outdoor Recreation
- Alaska State Parks, Mat-Su/Copper River Basin Region

Copy submitted by: Name (first, M.I., last)	Title	Phone (day)	Date
Steve Gruhn	Chair of Geographic Names Committee		8/4/2023
Company or Agency	Address (city, State, and Zip)		
Mountaineering Club of Alaska			
Copy Prepared by (if other than above)	Title	Phone (day)	Date
Judith E. Bittner	SHPO	(907) 269-8721	
Company or Agency	Address (city, State, and Zip)		
Alaska Department of Natural Resources/Office of History and Archaeology			
550 West 7 th Ave., Suite 1310, Anchorage, AK 99501-3565			
Authority for Recommended Name:	Mailing Address and Telephone	Occupation	Years in Area

Proposed Geographic Name: Arkose Peak



Change application of Arkose Peak

Proposal Information

Proposed name	Arkose Peak
Proposal type	application change to recognize present-day use
Proponent	Steven Gruhn, Chair / Mountaineering Club of Alaska Geographic Names Committee
Date proposed	8/4/2023
BGN case number	6108
Quarterly Review List	453

Feature Details

Primary coordinates	61.770844, -149.069003
Feature class	summit
Feature size	Elevation 5,316 ft.
Feature description	Between the head of Lone Tree Gulch and the head of Iron Creek
Name history	Unknown
USGS primary topo map	Anchorage D-6 SW 1:25,000
State(s)	Alaska
County(s)	Matanuska-Susitna Borough
Land ownership	Alaska Department of Natural Resources

BGN decisions

- None

Other Names

- Unpublished names: None found
- Published names: Arkose Peak: USGS 1985, 1994, 2023

Case Summary

This proposal, submitted by the chair of the Mountaineering Club of Alaska (MCA) Geographic Names Committee, is to change the application of the name Arkose Peak. The current and proposed locations are within the Talkeetna Mountains and in Matanuska-Susitna Borough.

In 1969, at the request of the MCA, the BGN approved the name Arkose Peak for the 5,804-foot peak in Sections 26 & 35, Township 20 North, Range 2 East; however, since 1985, USGS topographic maps have mistakenly placed the label, applying it instead to the 5,325-foot peak in Section 3, Township 19 North, Range 2 East, approximately 1.3 miles to the southeast of its intended location. Because of the longstanding discrepancy, the incorrect location has become known locally as Arkose Peak. The peak that was the subject of the 1969 decision has acquired the name Souvenir Peak (q.v.).

The proponent writes, “now that the Anchorage D-6 SE and Anchorage D-S SW maps have been published (2023), local map users are questioning the placement of the ‘Arkose Peak’ label on the location now commonly known as Souvenir Peak.”

He further states, “because the name Arkose Peak is now in common use for the 5,325-foot peak at the southeast head of Lone Tree Gulch, we propose to adjust the placement of the BGN-approved name Arkose Peak to that location.”

The proposed location is also closer to the main part of the ridge named Arkose Ridge.

No information has been found regarding the origin of the word “Arkose,” although the 1969 case brief includes the notation “[proposed] because of the type of granitic rock present.” The Alaska Board on Geographic Names minutes from the 1969 decision stated “Arkose Peak was approved by the [Alaska] Board. It was originally submitted as ‘Archois Peak’ but [a member] moved that the Federal Board be notified that the name Archois was a typographical error.” *The Dictionary of Alaska Place Names* (Orth, 1967) does not list the peak, and for the ridge simply notes “Local name reported in 1962 by USGS.”

Name	Local application	GNIS application
Arkose Peak	5,325-foot peak	5,820-foot peak
“Souvenir Peak”	5,820-foot peak	N/A

Stakeholder Input

Local government	Matanuska-Susitna Borough
State Names Authority	Alaska
Federally Recognized Tribes	All federally recognized Tribes contacted under Policy X
Other	Alaska Department of Natural Resources

Change Arkose Peak to Souvenir Peak

Proposal Information

Proposed name	Souvenir Peak
Proposal type	make official name in local use
Current official name	Arkose Peak
GNIS ID	1854183
Proponent	Steven Gruhn, Chair / Mountaineering Club of Alaska Geographic Names Committee
Date proposed	8/4/2023
BGN case number	6109
Quarterly Review List	453

Feature Details

Primary coordinates	61.7885220, -149.0525085
Feature class	summit
Feature size	Elevation 5,804 ft.
Feature description	At the NE end of Arkose Ridge, 3 mi. ESE of Idaho Peak, 3.5 mi. WNW of Eska Mountain.
Name history	Unknown
USGS primary topo map	Secs 26&35, T20N, R2E, Seward Meridian
State(s)	Alaska
County(s)	Matanuska-Susitna Borough
PLSS	Secs 26&35, T20N, R2E, Seward Meridian
Land ownership	Alaska Department of Natural Resources

BGN decisions

- Arkose Peak (1969)

Other Names

- Unpublished names: Souvenir Peak (local use)
- Published names:
 - Arkose Peak: USGS 1979, 2016, 2023
 - K'ae Dghelaaye': Shem Pete's *Alaska: The Territory of the Upper Cook Inlet Dena'ina* 2nd edition, 2003
 - Tsida K'ae Dghilaaye': Shem Pete's *Alaska: The Territory of the Upper Cook Inlet Dena'ina* 2nd edition, 2003
 - Souvenir Peak: Will Hersman's *History Corner, Mountaineering Club of Alaska Scree*, 1986, 1987, 1991, 2000, 2019

Case Summary

This proposal, submitted by the chair of the Geographic Names for the Mountaineering Club of Alaska, is to change the name of Arkose Peak to Souvenir Peak to recognize the name in local

use. The summit has an elevation of 5,804 feet and is located in the Talkeetna Mountains and in Matanuska-Susitna Borough.

Although the BGN approved the name Arkose Peak for this peak in 1969, USGS maps mislabeled the name and over the subsequent 50 years, the incorrect location became accepted as correct. The name Souvenir Peak came into use for the BGN-approved Arkose Peak. According to the proponent, “It was published in Willy Hersman’s *History Corner* article that appeared in the August 1986 edition of *Scree*, the monthly newsletter of the MCA. At that time the name Souvenir Peak had been in use for nearly 20 years (since at least 1968) but had been applied to various other features. Since Hersman’s article was published, the local mountaineering and skiing community has called the 5,820-foot peak Souvenir Peak.” The name appears in other MCA publications between 1986 and 2019.

Stakeholder Input

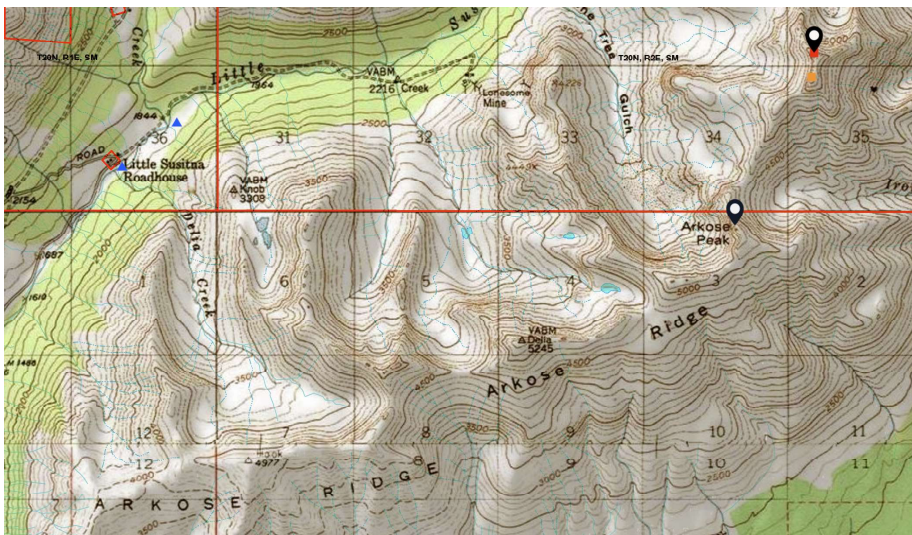
Local government	Matanuska-Susitna Borough
State Names Authority	Alaska
Federally Recognized Tribes	All federally recognized Tribes contacted under Policy X
Other	Alaska Department of Natural Resources

Name current Arkose Peak (GNIS Location) to Souvenir Peak
Change application of Arkose Peak to reflect local use and topographic map location



Change location of Arkose Peak from 5,804-ft. peak to 5,316-ft. peak to reflect local use. GNIS notes that following the 1969 decision, the label was mistakenly applied on USGS topographic maps to the wrong peak.

Name 5,804-ft peak as Souvenir Peak to make official a name in local use.



Current GNIS and Topo map Locations



Name	Local application	GNIS application
Arkose Peak	5316-foot peak	5804-foot peak
"Souvenir Peak"	5804-foot peak	N/A

Feature Details

Feature ID	1854183		
Name	Arkose Peak		
Class	Summit		
Feature Code	Summit		
Location	Matanuska-Susitna Borough - Alaska		
Citation	Source Type	Text	
	Reference	US	
	Originator	U.S. Board on Geographic Names	
	Distribution Date	January 1, 2000	
	Title	Geographic Names Post Phase I Board/Staff Revisions	
	Edition		
	Original Citation	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.	
Entry Date	March 30, 2000		
*Elevation	1766 meters / 5794 feet		
Designations			
History	Note: the BGN approved the name Arkose Peak for the 5850-foot peak at 614719N, 1490320W; however, the label was mistakenly applied on USGS topographic maps to the 5350-foot peak at 614617N, 1490409W. The 2016 US Topo shows the name at the correct location.		
Description	At the NE end of Arkose Ridge, 3 mi SE of Idaho Peak, 13 mi N of Palmer, Chugach Mountains.		

Census Code	Class Code	GSA Code	OPM Code
-	-	-	-

Variant Names

Name Asc

Name	In Part	Originator	Reference	Series Name	Publication Date	Source URL	Title	Edition	Notes	Additional Information
Archois Peak	No	U.S. Board on Geographic Names	US	-	January 1, 2000	-	Geographic Names Post Phase I Board/Staff Revisions	-	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.
K'ae Dghelaaye'	No	Kari, James and James Fall	AK	-	December 31, 2003	-	Shem Pete's Alaska : The Territory of the Upper Cook Inlet Dena'ina	2nd	Fairbanks, Alaska : University of Alaska Press	-
Tsida K'ae Dghilaaye'	No	Kari, James and James Fall	AK	-	December 31, 2003	-	Shem Pete's Alaska : The Territory of the Upper Cook Inlet Dena'ina	2nd	Fairbanks, Alaska : University of Alaska Press	-

Decisions

Name	Date	Authority	Type
Arkose Peak	May 13, 1969	Board Decision	Official

Filename	
----------	--

Coordinates

Sequence	Coordinates	Map	State
1	61.7885220, -149.0525085 / 61° 47' 18.68" N, 149° 3' 9.03" W	Anchorage D-6 SE	AK

Government Units

Sequence	State or Equivalent	County or Equivalent
1	Alaska	Matanuska-Susitna Borough

Map

Feature ID: 1854183

Official Name: Arkose Peak

Sequence Number: 1

Location DD: 61.788522, -149.0525085

Location DMS: 61° 47' 18.68" N 149° 3' 9.03" W

61.7969383°, -148.9877999°, 14z

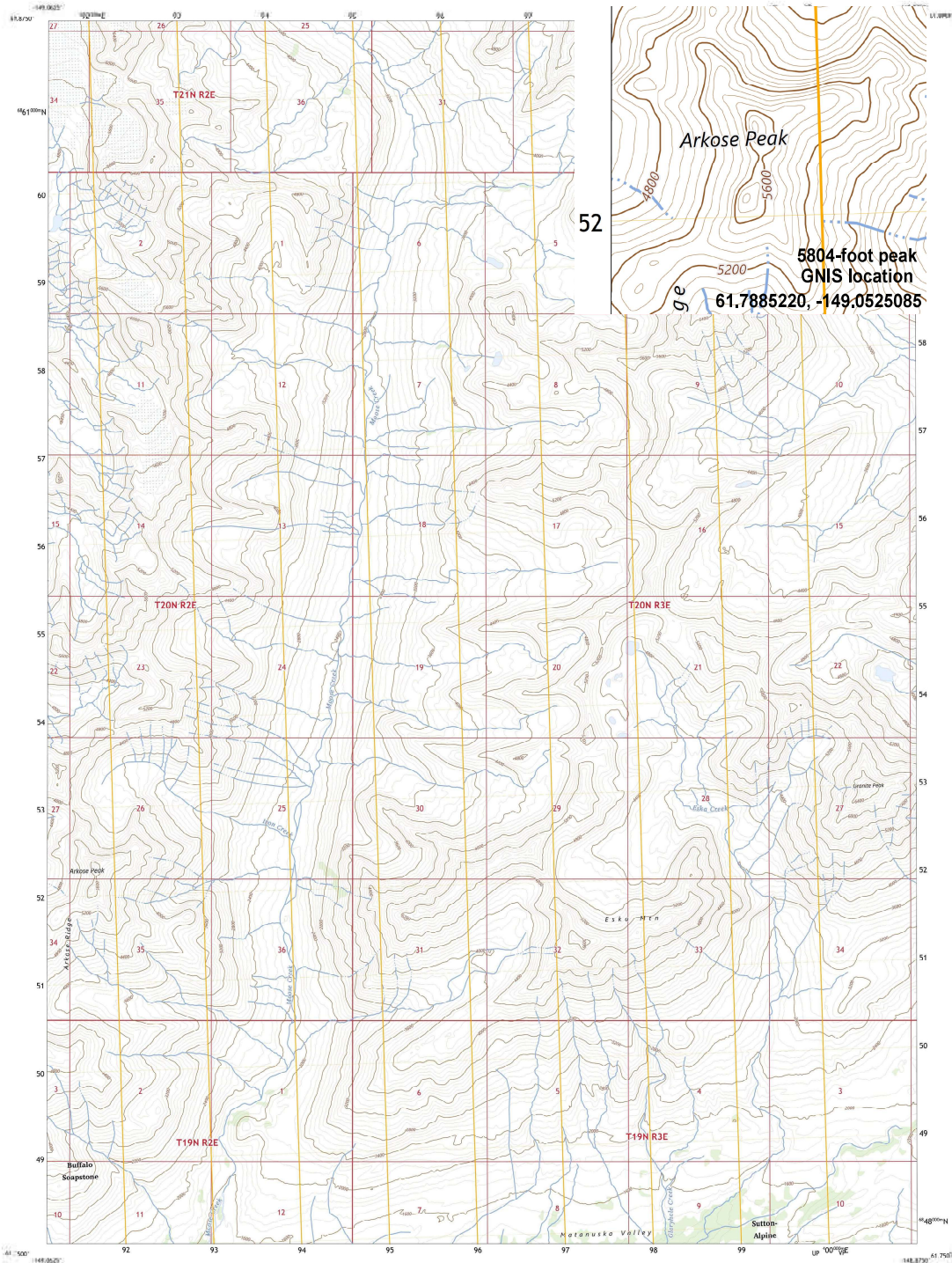
Powered by Esri | The National Map Base Layer, The National Map + Aerial Imagery", Usa Topo



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



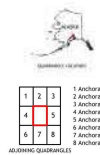
ANCHORAGE D-6 SE QUADRANGLE
ALASKA - MATANUSKA-SUSTINA BOROUGH
7.5-MINUTE SERIES



52

5804-foot peak
GNIS location
61.7885220, -149.0525085

Produced by the United States Geological Survey
World Geodetic System of 1984 (WGS84), Projection and
1:62,500 scale projection. Transverse Mercator, Zone 19
This map is not a legal document. Boundaries may be
approximate. Multiple sources see metadata file 2023_1011.
Public Land Survey System, 2002
Wetlands, FWS National Wetlands Inventory Not Available



ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Route	PRC
Interstate Route	US Route
	State Route

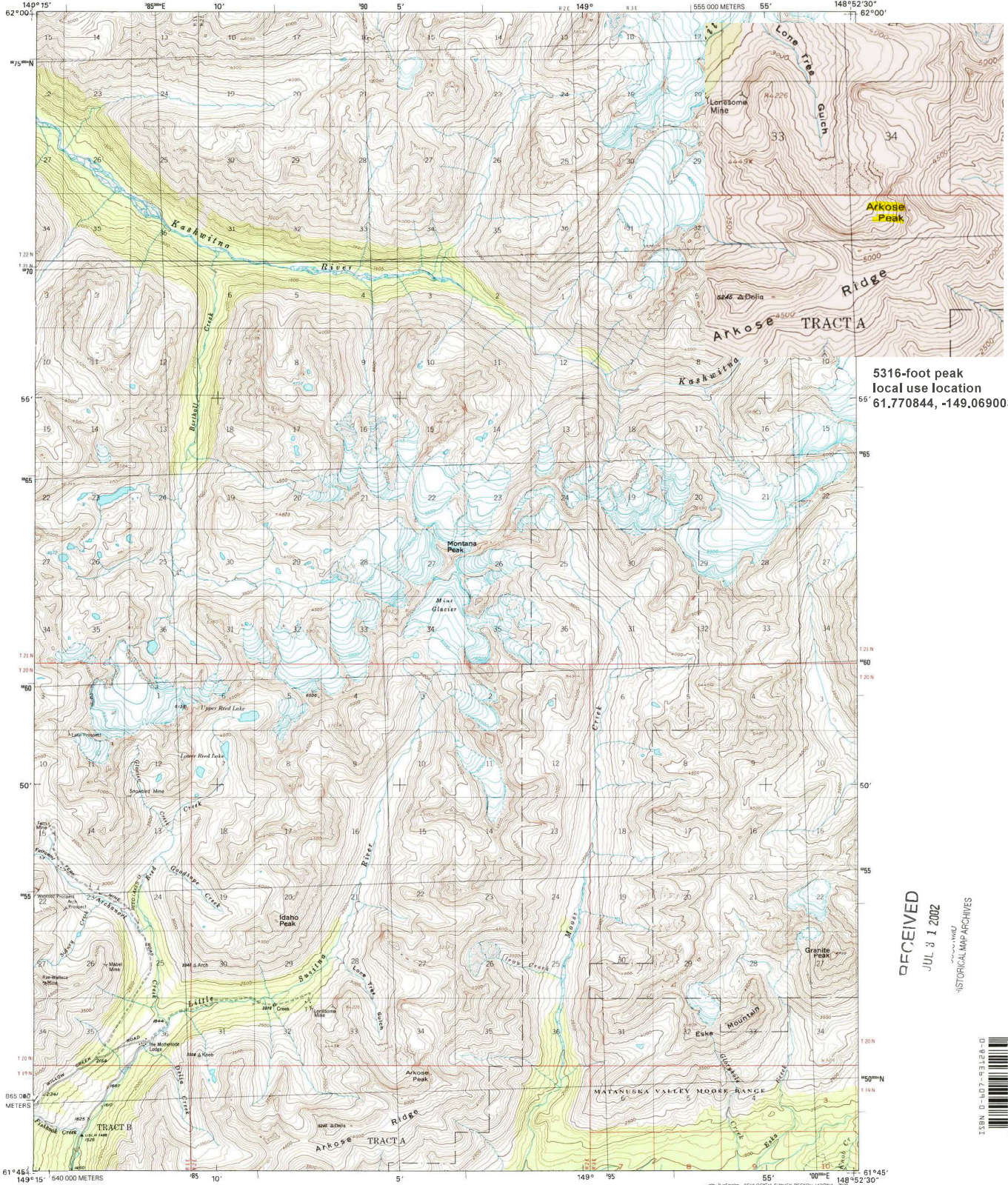
ANCHORAGE D-6 SE, AK
2023





U.S. DEPARTMENT OF THE INTERIOR [1994]
U.S. GEOLOGICAL SURVEY

ANCHORAGE D-6 QUADRANGLE
ALASKA-MATANUSKA-SUSITNA BOROUGH
1:63 360 SERIES (TOPOGRAPHIC)

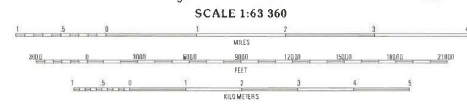
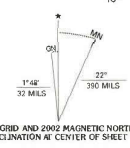


5316-foot peak
local use location
61.770844, -149.069003

RECEIVED
JUL 31 2002
HISTORICAL MAP ARCHIVES



Produced by the United States Geological Survey
Topography compiled 1949. Planimetry derived from imagery taken 1994 and other sources. Public Land Survey System and survey control current as of 1950. South edge current as of 1993. This map has not been field checked. Boundaries current as of 2000.
North American Datum of 1983 (NAD 83). Projection and 5 000-meter grid: Universal Transverse Mercator, zone 6.
5 000-meter grid: Alaska Coordinate System of 1983 (zone 4).
North American Datum of 1927 (NAD 27) is shown by dashed corner ticks. The values of the shift between NAD 83 and NAD 27 are obtainable from National Geodetic Survey NADCON software.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.
Protracted land lines are predetermined by the Bureau of Land Management, Folio S-1, Seward Meridian.



CONTOUR INTERVAL 100 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
TO CONVERT FEET TO METERS, MULTIPLY BY 0.3048



ROAD CLASSIFICATION

Primary highway hard surface	Unimproved road
Secondary highway hard surface	4 wheel drive
Light-duty road, hard or improved surface	Trails
State Route	

ADJOINING QUADRANGLES

1	2	1 Talkatche Mountains A-5 2 Talkatche Mountains A-4 3 Anchorage D-7
3	4	4 Anchorage D-5 5 Anchorage C-7 6 Anchorage C-6 7 Anchorage C-5
5	6	7



FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ANCHORAGE D-6, AK
1994



MOUNTAINEERING CLUB OF ALASKA

BOX 2037

ANCHORAGE, ALASKA 99510

AUGUST 1986

Volume 29, Issue 08

AUGUST MEETING

The meeting will be held Wednesday, August 20th at 7:30 p.m. at the Pioneer Schoolhouse, 3rd & Eagle Streets, Anchorage. After the business meeting, Mark Findlay will give a slide show on a June 1986 Valdez to Whittier kayak trip.

MINUTES FOR THE JULY MEETING

The meeting was held July 16th, 1986 at the Pioneer Schoolhouse, and was called to order by President Mark Findlay at 7:42 p.m. The reading of the minutes for June was waived.

Mark extended his thanks to Willie Hersman for filling in for him at the June meeting.

The club welcomed new members and guests.

TREASURER'S REPORT

\$ 245.00 - Petty Cash
 716.20 - Checking Account
 4,018.23 - Money Market Account
\$4,979.43 - Total MCA Monies

Individual membership is \$10.00. Family membership is \$15.00

Send to: P.O. BOX 102037
 Anchorage, Alaska 99510
 Attn. Treasurer

I. COMMITTEE REPORTS

A. Hiking Committee

The Crow Pass hike was changed from July 19th to July 20th. Twin Peaks hike will be rescheduled from July 26th to another date (check the hiking schedule).

II. OLD BUSINESS

- A. Willy Hersman has applied for the Personal Use Cabin Permit, but has not received anything yet.

ICE CLIMBING CLASS

The annual MCA technical ice climbing school will be held the last weekend in September. The course will consist of one classroom session, which is MANDATORY, and two days of ice climbing at the Matanuska Glacier. This class is for learning the basics about vertical ice climbing (i.e. waterfalls and gullies) only. No glacier walking techniques will be covered! Due to the limited availability of equipment, we are forced to limit the size of this year's school to 44 students. Present dues-paying members will have priority. They will be able to sign up at the August meeting. Further details will be published in next month's SCREE. Those interested in instructing should contact Paul Denkwalter at Alaska Mountaineering & Hiking (AMH) at 272-1811.

HISTORY CORNER

While recently working on an update of the master Peak Index for the SCREE, I found several accounts of first ascents which were quite confusing to me, sometimes because of the way they were written, sometimes because the maps then were probably inadequate. Persistence usually cleared up the confusion, but the worst of these puzzling accounts concerns the first ascent of Arkose Peak, the peak at the north end of Arkose Ridge above the Little Susitna drainage in the Talkeetnas.

I wasn't the first to be perplexed, Vin and Grace Hoeman made efforts to find out the story as well back in 1969. Grace made two trips to the area and thought she had cleared it up in an article she wrote in June 1969. She climbed twice the double-summited peak above Lone Tree Gulch (5850') to find only a cairn. She wrote, "There's no doubt in my mind that what the 1961 party climbed is indeed Arkose." The trouble is Arkose Peak is at an elevation just above 5300'. She still had the story wrong.

The account of July 1961 describes a peak with a double summit at about 6000 feet. True, Grace climbed the same one, at least by comparing the descriptions, but it's not Arkose. An article written in December 1968 took the liberty of naming many peaks between the roadhouse and the Mint Glacier. Some of those names faded away, some were not peaks at all, but they did give our peak in question the name of Souvenir Peak, which they claimed was 5715' high. This name cropped up again in a Dec. 1970 article.

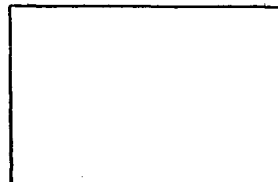
It appears to me that Arkose was first climbed in 1960 by an MCA party, with an account by Helga Bading entitled "Little Montana Peak" (Aug. 1960, pg. 2), where she gives the elevation as about 6200'. The only two members on both first ascents were Helga and John Dillman. John confirms the fact that in 1961 he and Helga and Gwynn Wilson climbed the 5850' peak above Lone Tree Gulch, now known as Souvenir Peak; the other climb in 1960 is less certain.

Based on all the descriptions found in the old SCREES, the record should reflect: Arkose Peak (5300') F.A.: 1960 (Bading, Erickson, Dillman, Putschler, Dahlke, Gessel) and Souvenir Peak (5850') F.A.: 1961 (Bading, Dillman, Wilson). Gee, I'll bet you were wondering about that one, right? Right!

Willy Hersman

APPROVED MAY 13 1969
 Promulgation authorized
 Executive Secretary
 Domestic Geographic Names
J. K. Linnaman

UNITED STATES
 BOARD ON GEOGRAPHIC NAMES
 Case Brief (Domestic)



Recommended Name: Arkose Peak

Source

State: Alaska Civil Division: _____ ()

_____ sec. _____ T. _____ R. _____ meridian ()

Lat. 61° 47' 20" N., Long. 149° 03' 00" W. _____ ()

Lat. _____ ° _____ ' _____ " N., Long. _____ ° _____ ' _____ " W. _____

Description: mountain, highest elevation over 5,800 ft. () () ()
at the NE end of Arkose Ridge, 3 mi. SE of Idaho Peak
and 13 mi. N of Palmer

Verification of Names in Descrip.	Check	
	Dec.	WkCd
<u>Arkose Ridge</u>		<u>✓</u>
<u>Idaho Peak</u>		<u>✓</u>
<u>Palmer</u>		<u>✓</u>

Not: - Archois Peak

Summary, indicating submitting person, or agency, source for locating the feature; reason for submittal of the name and pertinent facts of the case, for presentation to DNC.

Alaska Board, Anchorage (D-6); approved by the Alaska Board; "Arkose Peak" was proposed originally, because feature "is the highpoint and northeastern terminus of Arkose Ridge" and because of the "type of granitic rock... present"; however, the Alaska Board changed the name to "Archois Peak" but gives no reason for doing so; not in a USNF

Submitted by: Alaska Board
 Prepared by: Lyle
 Reviewed by: Berringer

Date: Nov. 13, 1968 Docket List No. 124
 Date: Jan. 28, 1969 Date Approved by Sec.
 Date: 2/19/69 of Int.
 Promulgation Date:

Alaska Bd. on 5-6-69 said the spelling should be "Arkose"

6902

FORM 9-1344
(MAY 1960)

3/1/68

approval

UNITED STATES DEPARTMENT OF THE INTERIOR BOARD ON GEOGRAPHIC NAMES WASHINGTON 25, D. C. PROPOSAL OF NAME FOR AN UNNAMED DOMESTIC FEATURE		Proposed name Arkose Peak <i>Archaic Peak</i>
		State Alaska County
		Pronunciation, if not obvious (use Webster's Dictionary symbols)
Location of Feature	Latitude <u>61</u> ° <u>47</u> ' <u>19</u> " N.	
	Longitude <u>149</u> ° <u>03</u> ' <u>20</u> " W.	
	Section(s) <u>26.35</u> , T. <u>20 N.</u> , R. <u>2 E.</u> , <u>Seward</u> Meridian	
Description and extent of feature: Mountain peak 5850 plus or minus 50, including also peak 5750 plus or minus 50, $\frac{1}{4}$ mile south of it and all slopes rising to these summits.		
Distance and direction from prominent features or towns: 13 miles north of Palmer, 3 miles SE of Idaho Peak at the northern end of Arkose Ridge.		
Basis of knowledge that the feature is unnamed: Anchorage D-6 quad, local knowledge		
Reason for Choice of Name:	<input checked="" type="checkbox"/> descriptive	<input checked="" type="checkbox"/> other (state reason): Provides a definite terminus for Arkose Ridge, the only other place-name usage of arkose in Alaska.
	<input checked="" type="checkbox"/> for a nearby feature	
	<input type="checkbox"/> for a person	
If the name is descriptive, state why it is appropriate: This type of granitic rock is present		
If named for another feature, state for that other feature:		
1. Name <u>Arkose Ridge</u> Lat. <u>61</u> ° <u>44-46</u> ' _____ " N. -- Long. <u>149</u> ° <u>03-13</u> ' _____ " W. Section(s) <u>3,4,7,8,9,12</u> T. <u>19 N.</u> , R. <u>2 E</u> , _____ <u>Seward</u> Meridian		
2. Any known variant spellings or other names:		
3. Number of years known by present name: on 1951 AMS map, so at least 16		
4. Relation of the two features: Arkose Peak is the highpoint and northeastern terminus of Arkose Ridge.		

If the name commemorates a person, state:

1. Full name of the person: _____
(do not propose name of a living person)

2. Date of the person's death: _____

3. Last residence: _____

4. Association, if any, of the person with the feature to be named:

5. Brief biography:

List any
Attached
Identification
Aids

Marked map: easily located on Anchorage D-6 (have C-6 available)

Marked photographs:

Other:

SUBMITTED BY:

Individual or private organization

Name J. Vin Hoeman, Chairman, Committee on Geog. Names
Address Mountaineering Club of Alaska
2500 Glehwood, Anchorage, Alaska 99504

Date 18 December 1967

Government agency (State or Federal)

Check appropriate box

Field officer of a mapping agency

Agency _____
Name and title _____
Address _____

Date _____

STATE OF ALASKA

OFFICE OF THE GOVERNOR

LOCAL AFFAIRS AGENCY

POUCH AB—JUNEAU 99801

WALTER J. HICKEL, GOVERNOR

November 13, 1968

Mr. J. O. Kilmartin, Executive Secretary
 Domestic Geographic Names
 U. S. Department of the Interior
 Board on Geographic Names
 Room 1040, GSA Building
 Washington, D. C. 20242

Dear Mr. Kilmartin:


The Alaska State Geographic Board has considered and approved the following name proposals at recent meetings:

- | | |
|-----------------------|----------------------|
| ✓McHugh Peak | ✓Mount Alpenglow |
| ✓Aniakchak Peak | ✓Matanuska Peak |
| ✓Sharkstooth Mountain | ✓Cul-de-sac Glacier |
| ✓One Shot Gap | ✓Shelf Glacier |
| ✓Institute Peak | ✓Spyglass Hill |
| ✓Archois Peak | ✓Tranquillity Pass X |
| ✓Artillery Hill | ✓Byron Peak |
| ✓Crystalline Hills | ✓Resurrection Peaks |
| ✓Dogsled Pass | |

A completed Form 9-1344 "Proposal of Name for an Unnamed Domestic Feature" is enclosed for each name proposal.

Would you please forward copies of any decision lists indicating approval to this Board.

Very truly yours,



Michael S. Leach
 Acting Chairman, Alaska
 State Geographic Board

MSL:ss
 Enclosures (17)
 cc. J. Vin Hoeman, Chairman
 Mountaineering Club of Alaska

STATE OF ALASKA

KEITH H. MILLER, Governor

OFFICE OF THE GOVERNOR

LOCAL AFFAIRS AGENCY / POUCH AB—JUNEAU 99801

April 25, 1969

Mr. J. O. Kilmartin, Executive Secretary
 Domestic Geographic Names
 U. S. Department of the Interior
 Board on Geographic Names
 Room 1040, GSA Building
 Washington, D. C. 20242

Dear Mr. Kilmartin:

At the recent April 22, 1969, Alaska State Geographic Board meeting, the Board approved the U. S. Geographic Board's decision, the spelling Meyers Chuck. *Done*

The following disapproved names were deferred pending further research: * Banks Lake, * Cascade Creek, * Mary Lake, * Milk Creek, and * Snipe Lake. These names have been disapproved due to duplication of names. Action was also deferred on the name Antler Lake until further information can be obtained.

Action was referred to Docket 124. All were approved by the Board.

Enclosed is a copy of the minutes from the April 22, 1969 meeting.

Very truly yours,

Alfred E. Widmark
 Chairman, Alaska State
 Geographic Board

by: *Phyllis Ann Kunz*
 Phyllis Ann Kunz, Secretary

Enclosure

A r kose Peak

Withdrawn-5-13-69

ALASKA STATE GEOGRAPHIC BOARD

May 6, 1969

The Alaska State Geographic Board Meeting was called to order at 10:05 a.m. Present were: Jean Jeffers, Department of Highways; Phyllis Nottingham, State Library; Mr. Hagmeier, Department of Education, and Al Widmark, Local Affairs Agency.

The minutes of the previous meeting, April 22, were read and stand approved as read.

A letter of March 20, 1969 from Mrs. Barbara D. Kalen to Mike Leach was read regarding the naming of two mountain peaks, Nimrod and Jeffrey. It has been assigned to Mike Leach to answer this letter.

Action was referred to Docket 122. The board approved the name Antler Lake.

Action was referred to Docket 124. Arkose Peak was approved by the Board. It was originally submitted as Archois Peak. Phyllis Nottingham moved that the Federal Board be notified that the name Archois was a typographical error. Jean Jeffers seconded it and it was unanimously carried.

Crystalline Hill, Docket 124, was approved by the Board. It is the name originally submitted and was approved as such.

A letter from Mr. Kilmartin was read. The following names from Docket 121 were approved by the Board:

Aiken Creek	Kugel Creek
Aiken Lake	Kugel Lake
Anmer Creek	Myrtle Creek
Conclusion Creek	Niblack Lake
Four Falls Lake	Spruce Creek
Harley Creek	

From Docket 122, the following names were approved by the Board:

Gossan Ridge	Olive Lake
Lake Luella	Weather Ridge
Mount Ascension	

Mr. Widmark also read another letter from Mr. Kilmartin regarding the acceptance of the following Alaskan names for Federal use: from Docket 121, Lake Paul; Docket 122, Little Nugget Creek; Docket 123, Eulachon River; and Docket 124, Aniakchak Peak, Artillery Hill, Cul-de-sac Glacier, Dogsled Pass, Institute Peak, Matanuska Peak, One Shot Gap and Shelf Glacier.

Action on the remaining names on Docket 121, 122, 123, and 124 was deferred.

Mr. Widmark adjourned the meeting at 11:45 a.m. until the next

Shem Pete's Alaska

The Territory of the Upper Cook Inlet Dena'ina

2016 Edition

by **James Kari** and **James A. Fall**

Principal contributor

Shem Pete

Additional place names and commentary by

Daniel Alex	Alec Peter
Mike Alex	Henry Peters
Nickafor Alexan	Annie Ronning
Emma Alexie	Fedosia Sacaloff
Alexandra Allowan	Dick Secondchief
Tommy Allowan	Morrie Secondchief
Harry Balluta	Jim Sinyon
Pete Bobby	Johnny Shaginoff
Sergei Californsky	Mary Shaginoff
Maxim Chickalusion	Alberta Stephan
Nellie Chickalusion	John Stephan
Ella Chuitt	Leo Stephan
Fedora Constantine	Pete Stephan
Peter Constantine	Sava Stephan
Miska Deaphon	Terry Stephan
Bobby Esai	Frank Stickwan
Hester Evan	John Stump
Fred Ewan	Jake Tansy
Betty Gilcrist	Arthur Theodore
Charlie Hubbard	Bailey Theodore
Peter Kalifornsky	Lillian Theodore
Ben Neely	Mike Theodore
Dick Mishakoff	Andy Tyone
Jim McKinley	Jack Tyone
Katherine Nicolie	Jim Tyone
Billy Pete	Katie Wade

Revised second edition
© 2016 University of Alaska Press

Second edition
© 2003 University of Alaska Press

First edition
1987
Alaska Native Language Center, University of Alaska and The CIRI Foundation.

Address correspondence to:

University of Alaska Press
Fairbanks, Alaska 99775-0120

Library of Congress Cataloging-in-Publication Data

Names: Kari, James M., editor of compilation. | Fall, James A., editor of compilation. | Pete, Shem, approximately 1896-1989, contributor. | Alex, Daniel, contributor. | Alaska Native Language Center.

Title: Shem Pete's Alaska : the territory of the Upper Cook Inlet Dena'ina / [compiled and edited] by James Kari and James A. Fall ; principal contributor, Shem Pete ; additional place names and commentary by Daniel Alex [and 51 others].

Description: 2016 edition, revised second edition. | Fairbanks, Alaska : The University of Alaska Press with the Alaska Native Language Center, 2016. | "Second edition 2003, University of Alaska Press; first edition 1987"—Title page verso. | Includes bibliographical references and indexes.

Identifiers: LCCN 2016017304 (print) | LCCN 2016017707 (ebook) | ISBN 9781602233065 (paperback : alkaline paper) | ISBN 9781602233072 (e-book)

Subjects: LCSH: Dena'ina Indians—Alaska—Cook Inlet. | Names, Dena'ina—Alaska—Cook Inlet. | Names, Geographical—Alaska. | Names, Geographical—Alaska—Cook Inlet. | Dena'ina language—Glossaries, vocabularies, etc. | Alaska—History, Local. | Cook Inlet (Alaska)—History, Local.

Classification: LCC E99.T185 S54 2016 (print) | LCC E99.T185 (ebook) | DDC 916.4/34—dc23

LC record available at <https://lccn.loc.gov/2016017304>

Printed in the United States of America
All rights reserved

Translations from Dena'ina Athabascan

Shem Pete
Billy Pete
Katherine Nicolie
Sava Stephan
James Kari

Maps

Matt Ganley, Map Alaska: www.map-alaska.com

Music transcriptions

Thomas F. Johnston, University of Alaska Fairbanks

Design

Dixon J. Jones, UAF Rasmuson Library Graphics

Front cover

Lynx Lake and lakes west of Willow, photo by Fred Hirschmann AK-6838. See Plate 5 and Fig. 61.
Inset photos: top, see page 394; bottom left to right, see Plate 24, Fig. 3, Plate 9 and Map 17.

Back cover

See Fig. 5.

Vignette backgrounds

Close-up of dentalia shell necklace worn by Shem Pete at the Cook Inlet Region, Inc. potlatch on October 17, 1985. Dentalia shells are called *k'enq'ena* and the necklace is called *t'uiedi*. Photo by Kathy Kiefer.

Detail of a large birchbark basket, the elegant utility vessel of the Dena'ina, called *Ich'ehi* or *q'ey Ich'eha*. This basket was made by Emma Alexie of Lime Village. Digital image by Kim Armstrong, UAF Rasmuson Library Photographic Unit.

Preparation of the 2003 edition was funded in part by a grant from the State of Alaska, administered by the Department of Community and Regional Affairs, through the 1985 Cultural Heritage Program of Cook Inlet Region, Inc. Funding was also provided by Cook Inlet Region, Inc., and by Alaska Native Language Center, College of Liberal Arts, University of Alaska Fairbanks, and a grant in 2001 from The CIRI Foundation.

Contents

LIST OF MAPS AND TABLES	VII
FOREWORD BY WILLIAM BRIGHT	XI
PREFACE TO THE 2016 EDITION	XII
PREFACE TO THE 2003 EDITION	XIII
INTRODUCTION TO THE 1987 EDITION	XV
ACKNOWLEDGMENTS	XVII
TERMINOLOGY AND FORMAT	XVIII
SYMBOLS, ABBREVIATIONS, COMMON DENA'INA WORDS	XIX
THE DENA'INA AND AHTNA SOUND SYSTEMS AND ALPHABETS	XXI
Introduction	1
Shem Pete Elan Shit'i, 'I Am Shem Pete'	1
Billy Shem Pete	6
Sava Stephan, Sr.	8
The Dena'ina Language Area, Dena'ina Dialects, and Prehistoric Migrations, <i>by James Kari</i>	10
‡Prehistory of the Greater Upper Cook Inlet Region <i>by Douglas Reger and Brian T. Wygal</i>	15
The Russian Presence in Upper Cook Inlet, <i>by James Kari and James A. Fall</i>	17
Upper Inlet Dena'ina Regional Bands, Subsistence Patterns, and Traditional Leaders, <i>by James A. Fall</i>	22
Upper Inlet Dena'ina Bands and Band Names, <i>by James Kari</i>	27
Dena'ina Place Names and Territorial Knowledge, <i>by James Kari</i>	30
A Note on Map Production for <i>Shem Pete's Alaska</i> , <i>by Matt Ganley</i>	36
1 Western Cook Inlet	49
Chief Simeon Chickalusion, 1880–1957	59
Tanik'edi , a Dena'ina Technique for Salmon Fishing in Cook Inlet, <i>by Nickafor Alexan</i>	64
Beluga Hunting in the Tyonek Area, <i>by James Kari and James A. Fall</i>	75
Quyushi Uqu Ch'el'ani , Beluga Hunting, <i>by Shem Pete</i>	78
2 Lower Susitna River	81
The Wrangell Map of 1839, <i>by James Kari</i>	85
Early Historic Dena'ina Log and Pole Buildings, <i>by D. C. Beard</i>	94
Susitnu Htsukdu'a —The Susitna Story, <i>by Shem Pete</i>	96
3 Fish Creek	99
Notes on Dena'ina Watercraft, <i>by James Kari</i>	102
Baytnidahen and Red Shirt, <i>by Shem Pete, translated by Billy Pete</i>	106
4 Alexander Creek Drainage	109
Ghuliy—Potlatch Wealth, <i>by James Kari</i>	115
5 Lower Yentna River	119
Shem Pete, Dena'ina Singer and Composer, <i>by Thomas F. Johnston</i>	125
6 Skwentna River to the Rainy Pass Area	131
Htal—the 1932 Trip to Rainy Pass, <i>by Sava Stephan</i>	140
‡Introducing the Proto-Dene <i>Lex Loci</i> with Selected Dene Place Names South and West of the Alaska Range, <i>by James Kari</i>	144

Kind of a hot spring through the timber in there, and it's kind of a village meeting place."

14.11 **Kisidlentnu** • 'Point Current Creek'

Wolverine Creek

14.12 **Kisidlen Bena** • 'Point Current Lake'

Wolverine Lake

14.13 **C'ek'aali Cene** (Ahtna) • 'Whetstone Flat'

bluff on north side of Matanuska River between Palmer and Moose Creek

Jim Tyone: "It is like it has been filed by the wind."

Johnny Shaginoff reported that a village site was located on this bluff near the mouth of Moose Creek. "It was a well-known place for Natives. All big high bluffs have names."

14.14 **Chidaq'atnu** (Dena'ina); **Tsidek'etna** (Ahtna) •

'Grandmother's Place Creek'

Moose Creek, formerly called Tsadaka Creek

This name is distinctively Dena'ina in origin, based upon the word **chida** 'old lady, grandma.' Note however that Orth (1971:987) stated, "Tanaina Indian name meaning "moose," reported in 1898 by Capt Glenn." Mendenhall (1898, Map 58) wrote this as "Tsadaka."

Castner (1899:199): "Above Moose Creek on our [north] side of the Matanuska was an old camping place of the Matanuskas used in their journeys up and down the river."

According to Johnny Shaginoff and Katie Wade, there are burials on both sides of the mouth of Moose Creek. Some graves have washed out. Several people died here during the 1918 flu epidemic.

There is a modest king salmon run in Moose Creek. The fish were harvested with spears, according to Katie Wade.

§14.78 **Chidaq'a Denyi** (Dena'ina); **Tsidek'e Dyii**

(Ahtna) • 'Grandmother's Place Canyon'

Tsadaka Canyon on Moose Creek

Cole et al. (1985:75): "As early as 1894, trappers and prospectors heard about the rich coal veins in the Matanuska Valley from local Indians."

In the 1940s the Wade and Larson families lived near the Premier Mine and hunted and harvested berries throughout this area.

14.15 **Chidaq'ashla Bena** • 'Lake of Grandmother's Little Place'

Wishbone Lake

A trail leads up from the Moose Creek homestead of the Shaginoffs and Wades up to Wishbone Lake, a popular fishing spot.

14.16 **Chidaq'ashla** • 'Grandmother's Little Place'

Wishbone Hill

Katie Wade said that this is thought of as a dangerous area. Many hunters have gotten lost here. A giant with feet that are turned backwards is said to have lived in the area.

§14.79 **Tsida K'ae Dghilaaye'** (Ahtna) • 'Grandmother's Place Mountain'

Arkose Peak and ridge

The name of this ridge at the head of Moose Creek is implied from the suffix **-shla**, 'small, little' for 14.16, Wishbone Hill. Typically a hill or mountain noted as 'small' is paired with a nearby larger named feature.

According to Johnny Shaginoff, a trail led up Moose Creek and over the mountains to the upper Kashwitna River. The Larsons from Talkeetna used to travel this trail. "I know some people went through. Jack Larson went up Moose Creek, came down Kashwitna. He used to trap beaver someplace on Kashwitna." See 8.44.

§14.80 **Tanilent** • 'Where Current Flows to Water'

rapids probably above Moose Creek

Name provided by John Stump.

§14.81 †**U'el Naak' Dghiltaazi** (Ahtna) • 'Bar That Is Turning With It'

bar on Matanuska River at Sutton

Name from the text by Jim Tyone. See p. 226.

14.17 **Ts'es Tuk'ilaght** (Dena'ina); **Ts'es Tac'ilaexde**

(Ahtna) • 'Where Fish Run Among Rocks'

Eska Creek; Sutton

A name written by Mendenhall in 1898 as "Chistookalat," or "Spring Creek," is clearly the Dena'ina name for Eska Creek.

The salmon fishery on the Matanuska River was on a much smaller scale than it was for the Dena'ina peoples on Knik Arm or for the Ahtna on the Copper River (for which see Simeone and Kari 2002.). The Chickaloon Ahtna did not spend much time salmon fishing. Some salmon were harvested here and at a small stream now called Mile Seventeen Creek (ponds near Eska Creek mouth) and at Little Granite Creek. Mary Shaginoff noted that she did little fishing following her family's move to Chickaloon in 1915. Johnny Shaginoff said that the salmon are good only the first two or three days of the run. In the past, salmon from the Eska area were mainly used as dog feed. The people in this area obtained dried salmon through trade with the people downstream at **Niteh**. See also Fall (1981:178, 203–205, and 1987:31, 36).

Katie Wade notes that the main traditional method of harvesting the salmon in the sidestreams and ponds along the Matanuska River was the fish spear. She also notes that the Ahtna-style **ciisi** or dipnet did not seem to have been used for any salmon fishing on the Matanuska River. Katie has noted that along the Matanuska River **ba'** or spread and scored dry fish was made only when there were enough good quality fish, and that they did not make **dzenax** or **nelk'oli**, the two styles of fermented fish that are made by the Ahtna on the Copper River.

14.18 **Neltsii Ce'e** (Ahtna) • 'Big One That Is Made Like a Face'

"Mount Sutton," mountain elev. 4415', "Crag"

Department of Natural Resources

ALASKA HISTORICAL COMMISSION

550 West 7th Avenue, Suite 1310
Anchorage, Alaska 99501
: 907.269.8721
dnr.oha@alaska.gov

ALASKA'S GEOGRAPHIC NAMES

a program of the

ALASKA HISTORICAL COMMISSION

The Alaska Historical Commission serves as the geographic names board for the State of Alaska (AS 41.35.350). The citizen board, chaired by the Lt. Governor, reviews names proposed for lakes, streams, mountains, and other physical features in the state. The commission coordinates its program with the U.S. Board on Geographic Names. The commission has established a process to consider proposals, as has the federal board. It takes at least a year to name a geographic feature.

In 1982 the State of Alaska enacted a law urging the state geographic names board to consider Alaska Native place names for geographic features in the state that have not previously been named, using Native language writing systems accepted by the Alaska Native Language Center, University of Alaska Fairbanks.

The U.S. Board on Geographic Names has a policy to identify a single official name and spelling for each geographic feature. One or more **variant** names can be identified if needed for clarity or reference. A variant is any current or historic name or spelling for a geographic feature other than the official name. It might appear on maps in parentheses following the official name.

To propose an official name for a geographic feature, an application is made to the Alaska Historical Commission. The form is available at:

http://www.dnr.alaska.gov/Assets/uploads/DNRPublic/parks/oha/designations/AKgeographicname_app.pdf or from the Office of History & Archaeology, 550 West 7th Ave., Suite 1310, Anchorage, AK 99501, 907.269.8721. The complete application and supporting material should be mailed, delivered to the office, or sent by email to dnr.oha@alaska.gov.

All proposals must be accompanied by a **map** showing U.S. Geological Survey information and identifying clearly the feature to be named. Additional maps are encouraged that show the immediate area around the feature to be named, or show the feature in relation to major geographic features, communities, and roads as appropriate. Photographs and other identifying aids are useful but are not required.

Evidence of local support is encouraged. These might be letters, petitions, newspaper articles, and letters to the editor, showing public awareness and endorsement of the proposed name. The proposer must establish that property owners of the feature or close to it have been made aware of the name proposal and given a chance to comment.

GUIDELINES

In the review of a proposed name, the Alaska Historical Commission uses the following guidelines and the policies of the U.S. Board on Geographic Names (*Principles, Policies, and Procedures for Domestic Geographic Names*, <http://geonames.usgs.gov/domestic/policies.htm>). A proposal must identify the type of proposed name from the categories below, address the special conditions, and establish why the feature needs an official name.

Local usage

Active local use is the single, best reason to name a geographic feature. Local usage refers to a name for a geographic feature that has evolved over a period of years, is called that name by the community or area as a whole, and is supported by local petitions, oral histories, documents, or other publications. A feature named by the applicant is not considered local usage, even when the applicant has called the feature by that name for a number of years.

The Alaska Historical Commission encourages the proposer to:

- include evidence of common verbal or written usage of the proposed name, such as petitions signed by local residents, resolutions, or letters of support for the proposed name from local government entities and community groups

Descriptive names (includes features named by applicant)

The Alaska Historical Commission asks the proposer to establish that:

- the name is relevant and descriptive of the feature
- the name is not in use elsewhere in the region (unless for a related feature)
- the name is in good taste and not frivolous
- the name has been used for a minimum of five years and evidence is provided of the use
- the property owners of the feature and those living adjacent to it have been notified of the proposed name and given a chance to comment on it

Alaska Native names

The Alaska Historical Commission asks the proposer to establish that:

- the name is or was in common local use and that use is documented
- the name is linguistically appropriate to the area in which it is to be applied
- the land owner has been notified of the proposed name and given a chance to comment on it
- there has been consultation on the spelling and use of diacritical marks (special marks not normally used in the English alphabet) with all Native groups in the area and with the Alaska Native Language Center, University of Alaska Fairbanks

Commemorative names *(please read the special section)*

The Alaska Historical Commission asks the proposer to establish that:

- . the individual has been deceased for five (5) years and evidence of this (such as an obituary and biography) is provided
- . the individual made a significant, acknowledged contribution over time to the community or state
- . the individual had a direct association with the feature for a period of years
- . there is local support by residents and local authorities as evidenced by including letters, petitions, and resolutions

Historical names

The Alaska Historical Commission asks the proposer to establish that:

- . the proposed name was in common local use and that use is documented
- . the name is clearly associated with the area

Name changes

The Alaska Historical Commission is reluctant to change existing names, but will consider doing so if the proposer demonstrates a compelling reason and if there is local support for the change. It has been shown that changing long-standing names can cause confusion and unforeseen costs.

The Alaska Historical Commission asks the proposer to establish, as appropriate, that:

- . the current official name is derogatory to a racial, ethnic, gender, or religious group
- . the current official name is duplicative and causing confusion
- . the current official name is not spelled correctly
- . there is extensive local support by local authorities and residents for the name proposed and the name change as evidenced by letters, local petitions, and resolutions from local government entities and organizations
- . the property owners of the feature and adjacent to it have been notified of the proposed name and given a chance to comment

Names in wilderness areas (including wilderness study areas)

The Alaska Historical Commission does not approve names for natural features in federally designated wilderness areas or study areas unless the proposer demonstrates that an exception is warranted.

The Alaska Historical Commission asks the proposer to establish that:

- there is an overriding need to name the feature (such as for purposes of safety, education, or area administration)

the land manager has been consulted and provided the opportunity to comment on the proposed name

Associative names

The Alaska Historical Commission accepts, in fact encourages, using the same name for features related to each other, such as forks of a river or a creek that comes from a glacier.

The Alaska Historical Commission asks to proposer to establish:

- the relationship between the two features using maps
- the property owners of the features and those adjacent to them have been notified of the proposed name and given a chance to comment
- the provisions for descriptive, commemorative, Alaska Native, wilderness and other categories are addressed as well

COMMEMORATIVE NAMES

A commemorative name of a geographic feature is to honor and recognize an individual who has made an outstanding or noteworthy contribution to an area or the state, or is a national or international figure. A commemorative name might be for an event. A commemorative place name is not intended to memorialize a family member, friend, pet or animal.

Proposals containing a given name (first or last) or nickname of an individual are considered commemorative. The full name of a person as part of a geographic name normally is not approved unless surname use alone would be ambiguous.

The person must have been deceased *for at least five (5) years* before the Alaska Historical Commission will consider a commemorative name proposal. An obituary or biography of the individual must be part of the proposal. The information should establish the individual's *direct association* with the feature, and that the individual made a *significant contribution* to the area in which the feature is located.

Direct association. To commemorate an event, it should have occurred at or near the feature or have had an impact on the region or state. To commemorate a person, the individual should have been physically present at or near the feature for a number of years, or engaged in some activity that affected the feature. A person's death on or at a feature, such as a mountaineering accident or plane crash, or the ownership of land adjacent to or of the feature, and recreational use or visits to a feature do not normally meet this criterion.

Significance. The proposer must establish why the event or individual is particularly worthy of recognition. The importance of an event can be in the social, political, economic, scientific, or cultural areas. The contribution of an individual must be notable, of consequence, and have had an impact on the community,

region or state. A significant contribution is an extraordinary effort, achievement, or impact. It may come from the individual's work, professional or civic activities, and can be in the social, political, economic, scientific, or cultural areas. The contribution should have benefitted Alaskans beyond the individual's immediate circle of family and friends. Generally, these individuals will have been recognized through a letter of thanks from the Governor or Legislature, certificates of appreciation from an agency or group, awards, newspaper articles featuring the contribution made, dedication of local man-made features (park, street, garden, building), and the like. The individual might be a historical figure.

Features in Alaska can be named for events of significance nationally or internationally. Features also can be named for persons who made a significant contribution nationally or internationally, especially if the contribution was exceptional and unique. In such instances, the requirement of direct association does not need to be met, but the other requirements for commemorative names must be met.

Commemorative name proposals must demonstrate local residents have been advised of the proposal. Proposals should include evidence of local support by local authorities and residents attesting to the individual's association with the feature and significant contribution locally, to the state or nation, or internationally.

GEOGRAPHIC NAMING PROCESS

Upon receipt, a name proposal is reviewed for completeness. If necessary, the applicant is asked for additional information. Of particular concern is that adjacent land owners have been advised of the proposed name and had a chance to comment on it.

A Domestic Geographic Name Report (a U.S. Board on Geographic Names form) is prepared and sent with a map and supporting information to relevant Native groups, public land managers, local governments, and other interested parties and local media for comment on the proposed name. For proposed Native names, the Alaska Native Language Center at the University of Alaska Fairbanks is consulted. Interested parties might include local civic groups, historical organizations, pilot associations, and outdoor groups.

The Alaska Historical Commission members receive the report, map, and all public input before discussing and acting to approve or not approve a proposed name. The nine-member commission meets at least two times a year. Commission members reference these guidelines in their formal action. The applicant is notified of the meeting at which the commission will consider their proposed name and provided with copies of comments received from reviewers. Every meeting has a public comment period when an applicant and others interested in the proposed name can address commission members. Place names approved by the Alaska Historical Commission are official for the State of Alaska.

Following the meeting, applicants are notified in writing of the Alaska Historical Commission's action on their proposal. Unless tabled, the Domestic Geographic Name Report, all comments received, and record of the commission's action are sent to the U.S. Board on Geographic Names. Staff there also have a review process before the board considers and votes on a proposed name. The USBGN is the final word on choice, spelling, and official use of the place names in the U.S. Its approval makes a name official nationally. The name is entered in the Geographic Name Information System (GNIS), <http://geonames.usgs.gov/domestic/>. When a

federal map is revised and updated an effort is made to add the name, but approval does not guarantee a name will appear on USGS and other federal maps.

The Alaska Office of History & Archaeology has a program manager for geographic names who can answer questions or provide additional information.

[AHC adopted 12.8.2015]

[Link updates 04.05.2017]

This Page Intentionally Left Blank

INTRODUCTION FOR PUBLIC
HEARING: LEGISLATIVE
MATTERS

Resolution No. 24-17 Geographic
Renaming Souviner Peak

This Page Intentionally Left Blank



THE STATE of ALASKA

GOVERNOR MICHAEL J. DUNLEAVY

Department of Natural Resources

DIVISION OF PARKS & OUTDOOR RECREATION
Office of History and Archaeology

550 West 7th Avenue, Suite 1310
Anchorage, AK 99501-3565
907.269.8721
http://dnr.alaska.gov/parks/oha

June 3, 2024

Re: 3050-4 Souvenir Peak

Matanuska-Susitna Borough
350 E Dahlia Ave
Palmer, Alaska 99645
mike.brown@matsugov.us
cc: Peggy.Horton@matsugov.us

Dear Borough Manager,

The Alaska Historical Commission has received a geographic name proposal to re-name the 5.804-foot mountain peak currently named "Arkose Peak" found at the northeast end of Arkose Ridge, north of Palmer in the Matanuska-Susitna Borough. The proposed new name is "Souvenir Peak." A copy of the proposal is enclosed for review, as well as a map showing the feature's location, and the guidelines for geographic names that the Alaska Historical Commission members have established.

The commission would appreciate your comments on the proposed name. To object or to endorse the proposed name, you must respond in writing. Your comments need to be received by August 15, 2024. You can respond with a letter or by writing your comments in the box below. Please send your comments by mail to the address above or by email to dnr.oha@alaska.gov.

If you have any questions about the state geographic names program, please contact Katie Ringsmuth at email katie.ringsmuth@alaska.gov or by phone at (907) 269-8714.

Sincerely,

[Handwritten signature of Katherine Ringsmuth]

Katherine Ringsmuth
Geographic Names Coordinator and State Historian
KJR: mms

Enclosures

I ___ object / ___ endorse the proposed name because: _____

Signed: _____ Date: _____

U.S. Department of the Interior
U.S. Geological Survey

Domestic Geographic Name Report

1 Use this form to recommend a feature name or to suggest a name change.

2. For features on Federal lands, coordinate requests with the agency (U.S. Forest Service, National Park Service, Bureau of Land Management, etc.) For the administrative area in which the land is located.

3. On the reverse side of this form give information on the local usage and authority for recommended name.

4. For more information about the Geographic Names Information System or the National Gazetteer Program, contact the U.S. Board on Geographic Names at 703-648-4544.

5. Return this form to:

Executive Secretary for Domestic
Geographic Names
U.S. Geological Survey
523 National Center
Reston, VA 22092

Action Requested

Proposed New Name: _____	Recommended Name: <u>Souvenir Peak</u>
Application Change: _____	State: <u>Alaska</u>
Name Change: <u>X</u>	County or Equivalent: <u>Matanuska-Susitna Borough</u>
Other: _____	Administrative Area: _____

Specific Area Covered:

Latitude: 61 ° 47 ' 18.67 " N Longitude: 149 ° 3 ' 9.03 " W
 Latitude: _____ ° _____ ' _____ " NS Longitude: _____ ° _____ ' _____ " WS
 Center: _____ Heading End _____
 Section(s) 26&35 Township(20N Range(s) 2E Meridian Seward Elevation 5804'

Type of Feature (stream, mountain, populated place, etc.): Mountain

Is the Feature identified (including other names), in the Geographic Names Information System (GNIS)?
 Yes X No _____ Unknown _____ If Yes, how is it listed? Arkose Peak (GNIS ID: 1854183)

Description of feature (physical shape, length, width, direction of flow, etc.):
The 5,804-foot summit at the NE end of Arkose Ridge. 3.5 miles ESE of Idaho Peak.

Maps and other sources using recommended name (including scale and date).	Other names (variants)	Maps and other sources using other name or application (including scale and date).
		Arkose Peak: USGS 1979, 2016, 2023.
	Tsida K'ae Dghilaaye' (Ahtna name): <i>Shem Pete's Alaska: The Territory of the Upper Cook Inlet Dena'ina</i> , 2016 (pg 297).	

	<p>K’ae Dghelaaye’: <i>Shem Pete’s Alaska: The Territory of the Upper Cook Inlet Dena’ina</i>, 2nd Edition, 2003.</p>	
<p>Souvenir Peak: Will Hersman’s <i>History Corner, Mountaineering Club of Alaska Scree</i>, 1986, 1987, 1991, 2000, 2019.</p>		

Name information such as origin, meaning of the recommended name, historical significance, biographic data (if commemorative), nature of usage or application, or any other pertinent information:

This proposal was submitted by the chair of the Mountaineering Club of Alaska (MCA) Geographic Names Committee to change the name of the current “Arkose Peak” to “Souvenir Peak” to recognize the name in local use. Located in the Talkeetna Mountains and the Matanuska-Susitna Borough, the summit rises 5,804 feet.

Although the federal Board of Geographic Names (BGN) approved the name “Arkose Peak” for this peak in 1969, USGS maps mislabeled the name. Over the subsequent 50 years, the incorrect location became accepted as correct, and the originally named “Arkose Peak” was called “Souvenir Peak” by the local population instead.

According to the proponent, “It was published in Willy Hersman’s *History Corner* article that appeared in the August 1986 edition of *Scree*, the monthly newsletter of the MCA. The name “Souvenir Peak” had been used for nearly 20 years (since at least 1968) but had been applied to various other features. Since Hersman’s article was published, the local mountaineering and skiing community has called the 5,820-foot peak ‘Souvenir Peak.’” The name appears in other MCA publications between 1986 and 2019.

The current “Arkose Peak” (proposed Souvenir Peak) and the neighboring Arkose Ridge are reported as the Ahtna name “Tsida K’ae Dgilaaye” in *Shem Pete’s Alaska: The Territory of Upper Cook Inlet Dena’ina* (Revised 2nd Edition, 2016, pg. 297) by James Kari and James A. Fall, with principal contributor Shem Pete. Here, “Tsida K’ae Dghilaaye” means “Grandmother’s Place Mountain” in Ahtna (Kari & Fall, 2016, pg. 297). “Arkose Peak” also has an entry in Orth’s *Dictionary of Alaska Place Names* (1976), stating that the local name was reported in 1962 by USGS (pg. 87). There are no other records of different names for the 5804-foot summit.

Is the recommended name in local usage? Yes No If Yes, approximately how many years? 40-50

Is there local opposition to, or conflict with the recommended name (as located)? None Listed

For proposed new name, please provide evidence that feature is unnamed: N/A

Additional information:

The mountain is on State land in the Matanuska-Susitna Borough in the Hatcher Pass Planning Area.

Organizations for Consultation:

- Chickaloon Native Village
- Cook Inlet Regional, Inc.
- Cook Inlet Tribal Council
- Knik Tribal Council
- Matanuska-Susitna Borough
- Mountaineering Club of Alaska
- Native Village of Eklutna
- State of Alaska, Department of Natural Resources, Division of Mining, Land, and Water
- State of Alaska, Department of Natural Resources, Division of Parks and Outdoor Recreation
- Alaska State Parks, Mat-Su/Copper River Basin Region

Copy submitted by: Name (first, M.I., last)	Title	Phone (day)	Date
Steve Gruhn	Chair of Geographic Names Committee		8/4/2023
Company or Agency	Address (city, State, and Zip)		

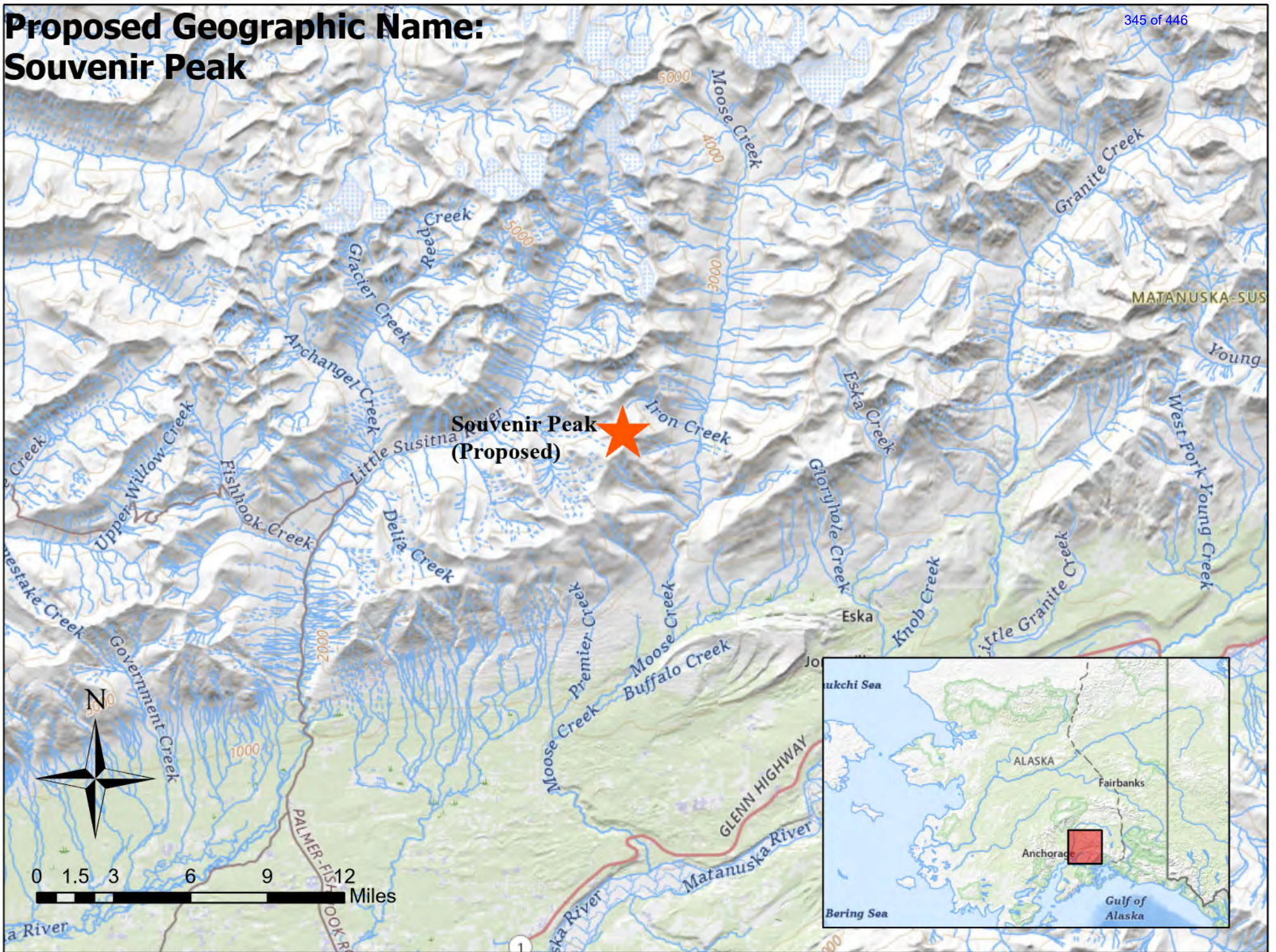
Mountaineering Club of Alaska

Copy Prepared by (if other than above)	Title	Phone (day)	Date
Judith E. Bittner	SHPO	(907) 269-8721	

Company or Agency	Address (city, State, and Zip)
Alaska Department of Natural Resources/Office of History and Archaeology	550 West 7 th Ave., Suite 1310, Anchorage, AK 99501-3565

Authority for Recommended Name:	Mailing Address and Telephone	Occupation	Years in Area
---------------------------------	-------------------------------	------------	---------------

Proposed Geographic Name: Souvenir Peak



Change application of Arkose Peak

Proposal Information

Proposed name	Arkose Peak
Proposal type	application change to recognize present-day use
Proponent	Steven Gruhn, Chair / Mountaineering Club of Alaska Geographic Names Committee
Date proposed	8/4/2023
BGN case number	6108
Quarterly Review List	453

Feature Details

Primary coordinates	61.770844, -149.069003
Feature class	summit
Feature size	Elevation 5,316 ft.
Feature description	Between the head of Lone Tree Gulch and the head of Iron Creek
Name history	Unknown
USGS primary topo map	Anchorage D-6 SW 1:25,000
State(s)	Alaska
County(s)	Matanuska-Susitna Borough
Land ownership	Alaska Department of Natural Resources

BGN decisions

- None

Other Names

- Unpublished names: None found
- Published names: Arkose Peak: USGS 1985, 1994, 2023

Case Summary

This proposal, submitted by the chair of the Mountaineering Club of Alaska (MCA) Geographic Names Committee, is to change the application of the name Arkose Peak. The current and proposed locations are within the Talkeetna Mountains and in Matanuska-Susitna Borough.

In 1969, at the request of the MCA, the BGN approved the name Arkose Peak for the 5,804-foot peak in Sections 26 & 35, Township 20 North, Range 2 East; however, since 1985, USGS topographic maps have mistakenly placed the label, applying it instead to the 5,325-foot peak in Section 3, Township 19 North, Range 2 East, approximately 1.3 miles to the southeast of its intended location. Because of the longstanding discrepancy, the incorrect location has become known locally as Arkose Peak. The peak that was the subject of the 1969 decision has acquired the name Souvenir Peak (q.v.).

The proponent writes, “now that the Anchorage D-6 SE and Anchorage D-S SW maps have been published (2023), local map users are questioning the placement of the ‘Arkose Peak’ label on the location now commonly known as Souvenir Peak.”

He further states, “because the name Arkose Peak is now in common use for the 5,325-foot peak at the southeast head of Lone Tree Gulch, we propose to adjust the placement of the BGN-approved name Arkose Peak to that location.”

The proposed location is also closer to the main part of the ridge named Arkose Ridge.

No information has been found regarding the origin of the word “Arkose,” although the 1969 case brief includes the notation “[proposed] because of the type of granitic rock present.” The Alaska Board on Geographic Names minutes from the 1969 decision stated “Arkose Peak was approved by the [Alaska] Board. It was originally submitted as ‘Archois Peak’ but [a member] moved that the Federal Board be notified that the name Archois was a typographical error.” *The Dictionary of Alaska Place Names* (Orth, 1967) does not list the peak, and for the ridge simply notes “Local name reported in 1962 by USGS.”

Name	Local application	GNIS application
Arkose Peak	5,325-foot peak	5,820-foot peak
“Souvenir Peak”	5,820-foot peak	N/A

Stakeholder Input

Local government	Matanuska-Susitna Borough
State Names Authority	Alaska
Federally Recognized Tribes	All federally recognized Tribes contacted under Policy X
Other	Alaska Department of Natural Resources

Change Arkose Peak to Souvenir Peak

Proposal Information

Proposed name	Souvenir Peak
Proposal type	make official name in local use
Current official name	Arkose Peak
GNIS ID	1854183
Proponent	Steven Gruhn, Chair / Mountaineering Club of Alaska Geographic Names Committee
Date proposed	8/4/2023
BGN case number	6109
Quarterly Review List	453

Feature Details

Primary coordinates	61.7885220, -149.0525085
Feature class	summit
Feature size	Elevation 5,804 ft.
Feature description	At the NE end of Arkose Ridge, 3 mi. ESE of Idaho Peak, 3.5 mi. WNW of Eska Mountain.
Name history	Unknown
USGS primary topo map	Secs 26&35, T20N, R2E, Seward Meridian
State(s)	Alaska
County(s)	Matanuska-Susitna Borough
PLSS	Secs 26&35, T20N, R2E, Seward Meridian
Land ownership	Alaska Department of Natural Resources

BGN decisions

- Arkose Peak (1969)

Other Names

- Unpublished names: Souvenir Peak (local use)
- Published names:
 - Arkose Peak: USGS 1979, 2016, 2023
 - K'ae Dghelaaye': Shem Pete's *Alaska: The Territory of the Upper Cook Inlet Dena'ina* 2nd edition, 2003
 - Tsida K'ae Dghilaaye': Shem Pete's *Alaska: The Territory of the Upper Cook Inlet Dena'ina* 2nd edition, 2003
 - Souvenir Peak: Will Hersman's *History Corner, Mountaineering Club of Alaska Scree*, 1986, 1987, 1991, 2000, 2019

Case Summary

This proposal, submitted by the chair of the Geographic Names for the Mountaineering Club of Alaska, is to change the name of Arkose Peak to Souvenir Peak to recognize the name in local

use. The summit has an elevation of 5,804 feet and is located in the Talkeetna Mountains and in Matanuska-Susitna Borough.

Although the BGN approved the name Arkose Peak for this peak in 1969, USGS maps mislabeled the name and over the subsequent 50 years, the incorrect location became accepted as correct. The name Souvenir Peak came into use for the BGN-approved Arkose Peak. According to the proponent, "It was published in Willy Hersman's *History Corner* article that appeared in the August 1986 edition of *Scree*, the monthly newsletter of the MCA. At that time the name Souvenir Peak had been in use for nearly 20 years (since at least 1968) but had been applied to various other features. Since Hersman's article was published, the local mountaineering and skiing community has called the 5,820-foot peak Souvenir Peak." The name appears in other MCA publications between 1986 and 2019.

Stakeholder Input

Local government	Matanuska-Susitna Borough
State Names Authority	Alaska
Federally Recognized Tribes	All federally recognized Tribes contacted under Policy X
Other	Alaska Department of Natural Resources

Name current Arkose Peak (GNIS Location) to Souvenir Peak
Change application of Arkose Peak to reflect local use and topographic map location

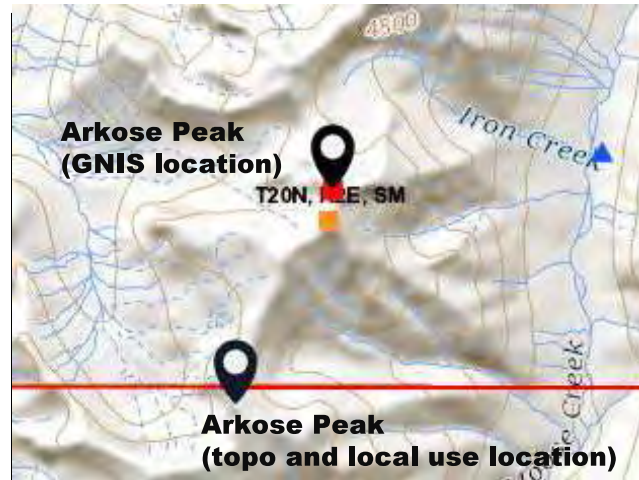


Change location of Arkose Peak from 5,804-ft. peak to 5,316-ft. peak to reflect local use. GNIS notes that following the 1969 decision, the label was mistakenly applied on USGS topographic maps to the wrong peak.

Name 5,804-ft peak as Souvenir Peak to make official a name in local use.



Current GNIS and Topo map Locations



Name	Local application	GNIS application
Arkose Peak	5316-foot peak	5804-foot peak
"Souvenir Peak"	5804-foot peak	N/A

Feature Details

Feature ID	1854183	
Name	Atkose Peak	
Class	Summit	
Feature Code	Summit	
Location	Matanuska-Susitna Borough - Alaska	
Citation	Source Type	Text
	Reference	US
	Originator	U.S. Board on Geographic Names
	Distribution Date	January 1, 2000
	Title	Geographic Names Post Phase I Board/Staff Revisions
	Edition	
	Original Citation	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.

Entry Date Match 30, 2000

***Elevation** 1766 meters / 5794 feet

Designations

History Note: the BGN approved the name Atkose Peak for the 5850-foot peak at 614719N, 149C320W; however, the label was mistakenly applied on USGS topographic maps to the 5350-foot peak at 614617N, 149C405W. The 2016 US Topo shows the name at the correct location.

Description At the NE end of Atkose Ridge, 3 mi SE of Idaho Peak, 13 mi N of Palmet, Chugach Mountains.

Census Code	Class Code	GSA Code	OPM Code
--------------------	-------------------	-----------------	-----------------

Variant Names

Name Asc

Name	In Part	Originator	Reference	Series Name	Publication Date	Source URL	Title	Edition	Notes	Additional Information
Atkosis Peak	No	U.S. Board on Geographic Names	US	-	January 1, 2000	-	Geographic Names Post Phase I Board/Staff Revisions	-	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.	Board decisions referenced after Phase I data compilation or staff researched non-controversial names.
K'ae Dghilaaye'	No	Kari, James and James Fall	AK	-	December 31, 2003	-	Shem Pete's Alaska : The Territory of the Upper Cook Inlet Denali	2nd	Fairbanks, Alaska : University of Alaska Press	-
Tsika K'ae Dghilaaye'	No	Kari, James and James Fall	AK	-	December 31, 2003	-	Shem Pete's Alaska : The Territory of the Upper Cook Inlet Denali	2nd	Fairbanks, Alaska : University of Alaska Press	-

Decisions

Name	Date	Authority	Type
Atkose Peak	May 13, 1969	Board Decision	Official

Filename	
----------	--

Coordinates

Sequence	Coordinates	Map	State
1	61.7885220, -149.0525085 / 61° 47' 18.68" N, 149° 3' 9.03" W	Anchorage D-6 SE	AK

Government Units

Sequence	State or Equivalent	County or Equivalent
1	Alaska	Matanuska-Susitna Borough

Map

Feature ID: 1854183
Official Name: Arkose Peak
Sequence Number: 1
Location DD: 61.788522, -149.0525085
Location DMS: 61° 47' 18.68" N 149° 3' 9.03" W

61.7969383°, -148.9877999°, 14z

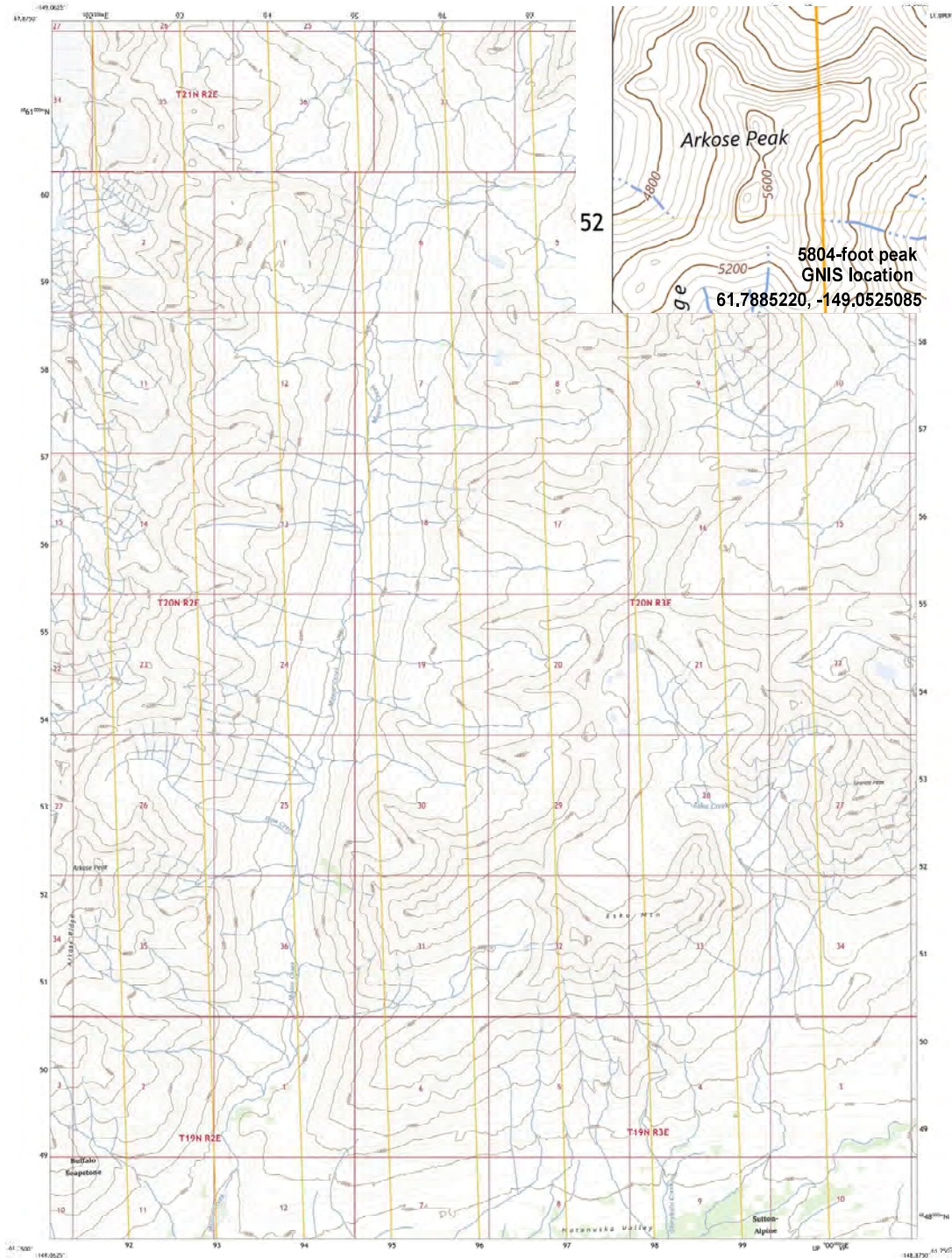
Powered by Esri | The National Map Base Layer, The National Map + Aerial Imagery", Usa Topo



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

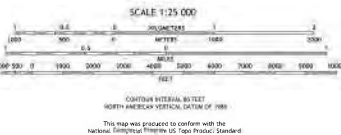


ANCHORAGE D-6 SE QUADRANGLE
ALASKA - MATANUSKA-SUSTINA BOROUGH
7.5-MINUTE SERIES



Produced by the United States Geological Survey
 North American Datum of 1983 (NAD83)
 World Geodetic System of 1984 (WGS84) Projection and
 1:50,000-meter georeferenced Topographic Accuracy, Zone 18
 Information may not be for public use. Please check with your government
 representative for more information. Obtain permission before
 entering private lands.

Imagery: 2021, © September 2019, September 2019
 Data: Alaska Dept. of Transportation, 1980-2020
 Hydrography: National Hydrography Dataset, 2001-2019
 Contours: National Elevation Dataset, 2013
 Boundaries: Multiple sources, see metadata file 2021-2022
 Public Land Survey: National Wetlands Inventory, 2009
 Wetlands: 2001-2009 National Wetlands Inventory, Not Available



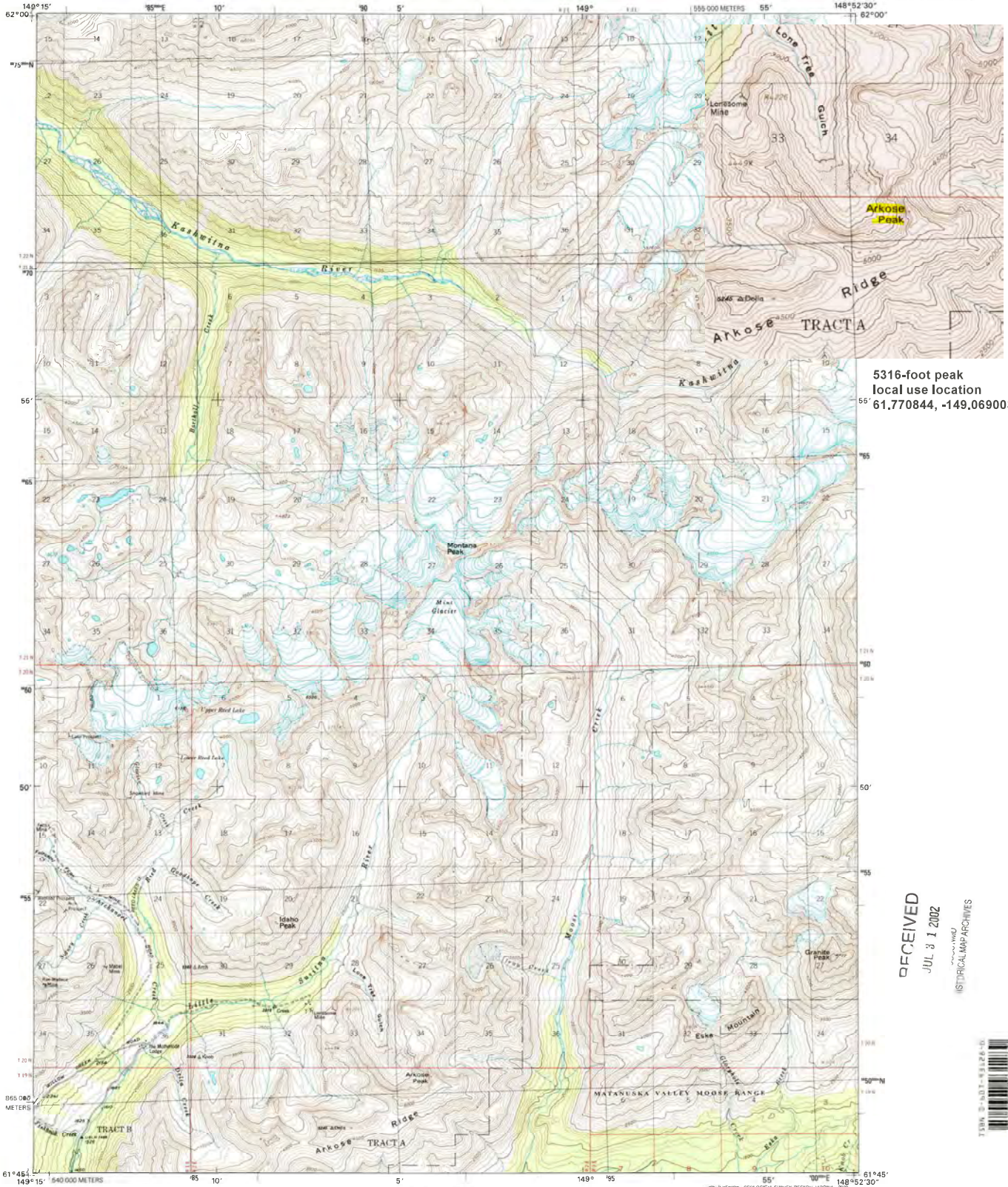
ANCHORAGE D-6 SE, AK
2023





U.S. DEPARTMENT OF THE INTERIOR [1994]
U.S. GEOLOGICAL SURVEY

ANCHORAGE D-6 QUADRANGLE
ALASKA-MATANUSKA-SUSITNA BOROUGH
1:63 360 SERIES (TOPOGRAPHIC)

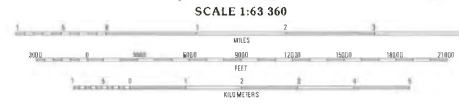


5316-foot peak
local use location
61.770844, -149.069003

RECEIVED
JUL 31 2002
HWC
HISTORICAL MAP ARCHIVES



Produced by the United States Geological Survey
Topography compiled 1949. Planimetry derived from imagery taken 1994 and other sources. Public Land Survey System and survey control current as of 1950. South edge current as of 1993. This map has not been field checked. Boundaries current as of 2000.
North American Datum of 1983 (NAD 83). Projection and 5 000-meter grid: Universal Transverse Mercator, zone 6. 5 000 meter side: Alaska Coordinate System of 1983 (zone 4).
North American Datum of 1927 (NAD 27) is shown by dashed corner ticks. The values of the shift between NAD 83 and NAD 27 are obtainable from National Geodetic Survey NADCON software.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.
Protracted land lines are predetermined by the Bureau of Land Management, Folio S-1, Seaward Meridian.



CONTOUR INTERVAL 100 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
TO CONVERT FEET TO METERS, MULTIPLY BY 0.3048



ROAD CLASSIFICATION

Primary highway hard surface	Unimproved road
Secondary highway hard surface	4 wheel drive
Light-duty road, hard or unimproved surface	Trails
State Route	

ADJOINING QUADRANGLES

1	2	1 Talkatche Mountain A-5 2 Talkatche Mountains A-4 3 Anchorage D-7
3	4	4 Anchorage D-5 5 Anchorage C-7 6 Anchorage C-6 7 Anchorage C-5
5	6	7



FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ANCHORAGE D-6, AK
1994



MOUNTAINEERING CLUB OF ALASKA

BOX 2037

ANCHORAGE, ALASKA 99510

AUGUST 1986

Volume 29, Issue 08

AUGUST MEETING

The meeting will be held Wednesday, August 20th at 7:30 p.m. at the Pioneer Schoolhouse, 3rd & Eagle Streets, Anchorage. After the business meeting, Mark Findlay will give a slide show on a June 1986 Valdez to Whittier kayak trip.

MINUTES FOR THE JULY MEETING

The meeting was held July 16th, 1986 at the Pioneer Schoolhouse, and was called to order by President Mark Findlay at 7:42 p.m. The reading of the minutes for June was waived.

Mark extended his thanks to Willie Hersman for filling in for him at the June meeting.

The club welcomed new members and guests.

TREASURER'S REPORT

\$ 245.00 - Petty Cash
 716.20 - Checking Account
 4,018.23 - Money Market Account
\$4,979.43 - Total MCA Monies

Individual membership is \$10.00. Family membership is \$15.00

Send to: P.O. BOX 102037
 Anchorage, Alaska 99510
 Attn. Treasurer

I. COMMITTEE REPORTS

A. Hiking Committee

The Crow Pass hike was changed from July 19th to July 20th. Twin Peaks hike will be rescheduled from July 26th to another date (check the hiking schedule).

II. OLD BUSINESS

- A. Willy Hersman has applied for the Personal Use Cabin Permit, but has not received anything yet.

ICE CLIMBING CLASS

The annual MCA technical ice climbing school will be held the last weekend in September. The course will consist of one classroom session, which is MANDATORY, and two days of ice climbing at the Matanuska Glacier. This class is for learning the basics about vertical ice climbing (i.e. waterfalls and gullies) only. No glacier walking techniques will be covered! Due to the limited availability of equipment, we are forced to limit the size of this year's school to 44 students. Present dues-paying members will have priority. They will be able to sign up at the August meeting. Further details will be published in next month's SCREE. Those interested in instructing should contact Paul Denkwalter at Alaska Mountaineering & Hiking (AMH) at 272-1811.

HISTORY CORNER

While recently working on an update of the master Peak Index for the SCREE, I found several accounts of first ascents which were quite confusing to me, sometimes because of the way they were written, sometimes because the maps then were probably inadequate. Persistence usually cleared up the confusion, but the worst of these puzzling accounts concerns the first ascent of Arkose Peak, the peak at the north end of Arkose Ridge above the Little Susitna drainage in the Talkeetnas.

I wasn't the first to be perplexed, Vin and Grace Hoeman made efforts to find out the story as well back in 1969. Grace made two trips to the area and thought she had cleared it up in an article she wrote in June 1969. She climbed twice the double-summited peak above Lone Tree Gulch (5850') to find only a cairn. She wrote, "There's no doubt in my mind that what the 1961 party climbed is indeed Arkose." The trouble is Arkose Peak is at an elevation just above 5300'. She still had the story wrong.

The account of July 1961 describes a peak with a double summit at about 6000 feet. True, Grace climbed the same one, at least by comparing the descriptions, but it's not Arkose. An article written in December 1968 took the liberty of naming many peaks between the roadhouse and the Mint Glacier. Some of those names faded away, some were not peaks at all, but they did give our peak in question the name of Souvenir Peak, which they claimed was 5715' high. This name cropped up again in a Dec. 1970 article.

It appears to me that Arkose was first climbed in 1960 by an MCA party, with an account by Helga Bading entitled "Little Montana Peak" (Aug. 1960, pg. 2), where she gives the elevation as about 6200'. The only two members on both first ascents were Helga and John Dillman. John confirms the fact that in 1961 he and Helga and Gwynn Wilson climbed the 5850' peak above Lone Tree Gulch, now known as Souvenir Peak; the other climb in 1960 is less certain.

Based on all the descriptions found in the old SCREES, the record should reflect: Arkose Peak (5300') F.A.: 1960 (Bading, Erickson, Dillman, Putschler, Dahlke, Gessel) and Souvenir Peak (5850') F.A.: 1961 (Bading, Dillman, Wilson). Gee, I'll bet you were wondering about that one, right? Right!

Willy Hersman

APPROVED MAY 13 1969
 Promulgation authorized
 Executive Secretary
 Domestic Geographic Names
J. K. L. [Signature]

UNITED STATES
 BOARD ON GEOGRAPHIC NAMES
 Case Brief (Domestic)



Recommended Name: Arkose Peak Source _____
 State: Alaska Civil Division: _____ ()
 _____ sec. _____ T. _____ R. _____ meridian ()
 Lat. 61° 47' 20" N., Long. 149° 03' 00" W. _____ ()
 Lat. _____ ° _____ ' _____ " N., Long. _____ ° _____ ' _____ " W. _____ ()

Description: mountain, highest elevation over 5,800 ft. () () ()
at the NE end of Arkose Ridge, 3 mi. SE of Idaho Peak
and 13 mi. N of Palmer

Verification of Names in Descrip.	Check	
	Dec.	WkCd
<u>Arkose Ridge</u>		<input checked="" type="checkbox"/>
<u>Idaho Peak</u>		<input checked="" type="checkbox"/>
<u>Palmer</u>		<input checked="" type="checkbox"/>

Not: - Archois Peak

Summary, indicating submitting person, or agency, source for locating the feature; reason for submittal of the name and pertinent facts of the case, for presentation to DNC.

Alaska Board, Anchorage (D-6), approved by the Alaska Board; "Arkose Peak" was proposed originally, because feature "is the highpoint and northeastern terminus of Arkose Ridge" and because of the "type of granitic rock... present"; however, the Alaska Board changed the name to "Archois Peak" but gives no reason for doing so; not in a USNF

Submitted by: Alaska Board
 Prepared by: Lyle
 Reviewed by: Berringer

Date: Nov. 13, 1968 Docket List No. 124
 Date: Jan. 28, 1969 Date Approved by Sec. _____
 Date: 2/19/69 of Int. _____

Alaska Bd. on 5-6-69 said the spelling should be "Arkose"

Promulgation Date:
69C2

FORM 9-1344
(MAY 1960)

3/1/68

approved

UNITED STATES DEPARTMENT OF THE INTERIOR BOARD ON GEOGRAPHIC NAMES WASHINGTON 25, D. C. PROPOSAL OF NAME FOR AN UNNAMED DOMESTIC FEATURE		Proposed name Arkose Peak <i>Archaic Peak</i>
		State Alaska County
		Pronunciation, if not obvious (use Webster's Dictionary symbols)
Location of Feature	Latitude <u>61</u> ° <u>47</u> ' <u>19</u> " N.	
	Longitude <u>149</u> ° <u>03</u> ' <u>20</u> " W.	
	Section(s) <u>26.35</u> , T. <u>20 N.</u> , R. <u>2 E.</u> , <u> </u> Seward Meridian	
Description and extent of feature: Mountain peak 5850 plus or minus 50, including also peak 5750 plus or minus 50, $\frac{1}{4}$ mile south of it and all slopes rising to these summits.		
Distance and direction from prominent features or towns: 13 miles north of Palmer, 3 miles SE of Idaho Peak at the northern end of Arkose Ridge.		
Basis of knowledge that the feature is unnamed: Anchorage D-6 quad, local knowledge		
Reason for Choice of Name: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> descriptive <input checked="" type="checkbox"/> for a nearby feature <input type="checkbox"/> for a person </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> other (state reason): Provides a definite terminus for Arkose Ridge, the only other place-name usage of arkose in Alaska. </div> </div>		
If the name is descriptive, state why it is appropriate: This type of granitic rock is present		
If named for another feature, state for that other feature:		
1. Name <u>Arkose Ridge</u> Lat. <u>61</u> ° <u>44-46</u> ' _____ " N. -- Long. <u>149</u> ° <u>03-13</u> ' _____ " W. Section(s) <u>3,4,7,8,9,12</u> T. <u>19 N.</u> , R. <u>2 E.</u> , _____ Seward Meridian		
2. Any known variant spellings or other names:		
3. Number of years known by present name: on 1951 AMS map, so at least 16		
4. Relation of the two features: Arkose Peak is the highpoint and northeastern terminus of Arkose Ridge.		

If the name commemorates a person, state:

1. Full name of the person: _____
(do not propose name of a living person)

2. Date of the person's death: _____

3. Last residence: _____

4. Association, if any, of the person with the feature to be named:

5. Brief biography:

List any Attached Identification Aids	Marked map: easily located on Anchorage D-6 (have C-6 available)
	Marked photographs:
	Other:

SUBMITTED BY:

Individual or private organization

Name J. Vin Hoeman, Chairman, Committee on Geog. Names
Address Mountaineering Club of Alaska
2500 Glehwood, Anchorage, Alaska 99504

Date 18 December 1967

Government agency (State or Federal)

Check appropriate box

Field officer of a mapping agency

Agency _____
Name and title _____
Address _____

Date _____

STATE OF ALASKA

OFFICE OF THE GOVERNOR

LOCAL AFFAIRS AGENCY

POUCH AB—JUNEAU 99801

WALTER J. HICKEL, GOVERNOR

November 13, 1968

Mr. J. O. Kilmartin, Executive Secretary
 Domestic Geographic Names
 U. S. Department of the Interior
 Board on Geographic Names
 Room 1040, GSA Building
 Washington, D. C. 20242

Dear Mr. Kilmartin:

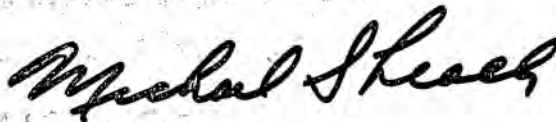
The Alaska State Geographic Board has considered and approved the following name proposals at recent meetings:

- | | |
|-----------------------|----------------------|
| ✓McHugh Peak | ✓Mount Alpenglow |
| ✓Aniakchak Peak | ✓Matanuska Peak |
| ✓Sharkstooth Mountain | ✓Cul-de-sac Glacier |
| ✓One Shot Gap | ✓Shelf Glacier |
| ✓Institute Peak | ✓Spyglass Hill |
| ✓Archois Peak | ✓Tranquillity Pass X |
| ✓Artillery Hill | ✓Byron Peak |
| ✓Crystalline Hills | ✓Resurrection Peaks |
| ✓Dogsled Pass | |

A completed Form 9-1344 "Proposal of Name for an Unnamed Domestic Feature" is enclosed for each name proposal.

Would you please forward copies of any decision lists indicating approval to this Board.

Very truly yours,



Michael S. Leach
 Acting Chairman, Alaska
 State Geographic Board

MSL:ss
 Enclosures (17)
 cc. J. Vin Hoeman, Chairman
 Mountaineering Club of Alaska

STATE OF ALASKA

KEITH H. MILLER, Governor

OFFICE OF THE GOVERNOR

LOCAL AFFAIRS AGENCY / POUCH AB—JUNEAU 99801

April 25, 1969

Mr. J. O. Kilmartin, Executive Secretary
 Domestic Geographic Names
 U. S. Department of the Interior
 Board on Geographic Names
 Room 1040, GSA Building
 Washington, D. C. 20242

Dear Mr. Kilmartin:

At the recent April 22, 1969, Alaska State Geographic Board meeting, the Board approved the U. S. Geographic Board's decision, the spelling Meyers Chuck. *Don C*

The following disapproved names were deferred pending further research: * Banks Lake, * Cascade Creek, * Mary Lake, * Milk Creek, and * Snipe Lake. These names have been disapproved due to duplication of names. Action was also deferred on the name Antler Lake until further information can be obtained.

Action was referred to Docket 124. All were approved by the Board.

Enclosed is a copy of the minutes from the April 22, 1969 meeting.

Very truly yours,

Alfred E. Widmark
 Chairman, Alaska State
 Geographic Board

by: *Phyllis Ann Kunz*
 Phyllis Ann Kunz, Secretary

Enclosure

A - Kose Peak

Withdrawn - 5-13-69

ALASKA STATE GEOGRAPHIC BOARD

May 6, 1969

The Alaska State Geographic Board Meeting was called to order at 10:05 a.m. Present were: Jean Jeffers, Department of Highways; Phyllis Nottingham, State Library; Mr. Hagmeier, Department of Education, and Al Widmark, Local Affairs Agency.

The minutes of the previous meeting, April 22, were read and stand approved as read.

A letter of March 20, 1969 from Mrs. Barbara D. Kalen to Mike Leach was read regarding the naming of two mountain peaks, Nimrod and Jeffrey. It has been assigned to Mike Leach to answer this letter.

Action was referred to Docket 122. The board approved the name Antler Lake.

Action was referred to Docket 124. Arkose Peak was approved by the Board. It was originally submitted as Archois Peak. Phyllis Nottingham moved that the Federal Board be notified that the name Archois was a typographical error. Jean Jeffers seconded it and it was unanimously carried.

Crystalline Hill, Docket 124, was approved by the Board. It is the name originally submitted and was approved as such.

A letter from Mr. Kilmartin was read. The following names from Docket 121 were approved by the Board:

Aiken Creek	Kugel Creek
Aiken Lake	Kugel Lake
Anmer Creek	Myrtle Creek
Conclusion Creek	Niblack Lake
Four Falls Lake	Spruce Creek
Harley Creek	

From Docket 122, the following names were approved by the Board:

Gossan Ridge	Olive Lake
Lake Luelia	Weather Ridge
Mount Ascension	

Mr. Widmark also read another letter from Mr. Kilmartin regarding the acceptance of the following Alaskan names for Federal use: from Docket 121, Lake Paul; Docket 122, Little Nugget Creek; Docket 123, Eulachon River; and Docket 124, Aniakchak Peak, Artillery Hill, Cul-de-sac Glacier, Dogsled Pass, Institute Peak, Matanuska Peak, One Shot Gap and Shelf Glacier.

Action on the remaining names on Docket 121, 122, 123, and 124 was deferred.

Mr. Widmark adjourned the meeting at 11:45 a.m. until the next

Shem Pete's Alaska

The Territory of the Upper Cook Inlet Dena'ina

2016 Edition

by **James Kari** and **James A. Fall**

Principal contributor

Shem Pete

Additional place names and commentary by

Daniel Alex	Alec Peter
Mike Alex	Henry Peters
Nickafor Alexan	Annie Ronning
Emma Alexie	Fedosia Sacaloff
Alexandra Allowan	Dick Secondchief
Tommy Allowan	Morrie Secondchief
Harry Balluta	Jim Sinyon
Pete Bobby	Johnny Shaginoff
Sergei Californsky	Mary Shaginoff
Maxim Chickalusion	Alberta Stephan
Nellie Chickalusion	John Stephan
Ella Chuitt	Leo Stephan
Fedora Constantine	Pete Stephan
Peter Constantine	Sava Stephan
Miska Deaphon	Terry Stephan
Bobby Esai	Frank Stickwan
Hester Evan	John Stump
Fred Ewan	Jake Tansy
Betty Gilcrist	Arthur Theodore
Charlie Hubbard	Bailey Theodore
Peter Kalifornsky	Lillian Theodore
Ben Neely	Mike Theodore
Dick Mishakoff	Andy Tyone
Jim McKinley	Jack Tyone
Katherine Nicolie	Jim Tyone
Billy Pete	Katie Wade

Revised second edition
© 2016 University of Alaska Press

Second edition
© 2003 University of Alaska Press

First edition
1987
Alaska Native Language Center, University of Alaska and The CIRI Foundation.

Address correspondence to:

University of Alaska Press
Fairbanks, Alaska 99775-0120

Library of Congress Cataloging-in-Publication Data

Names: Kari, James M., editor of compilation. | Fall, James A., editor of compilation. | Pete, Shem, approximately 1896-1989, contributor. | Alex, Daniel, contributor. | Alaska Native Language Center.

Title: Shem Pete's Alaska : the territory of the Upper Cook Inlet Dena'ina / [compiled and edited] by James Kari and James A. Fall ; principal contributor, Shem Pete ; additional place names and commentary by Daniel Alex [and 51 others].

Description: 2016 edition, revised second edition. | Fairbanks, Alaska : The University of Alaska Press with the Alaska Native Language Center, 2016. | "Second edition 2003, University of Alaska Press; first edition 1987"—Title page verso. | Includes bibliographical references and indexes.

Identifiers: LCCN 2016017304 (print) | LCCN 2016017707 (ebook) | ISBN 9781602233065 (paperback : alkaline paper) | ISBN 9781602233072 (e-book)

Subjects: LCSH: Dena'ina Indians—Alaska—Cook Inlet. | Names, Dena'ina—Alaska—Cook Inlet. | Names, Geographical—Alaska. | Names, Geographical—Alaska—Cook Inlet. | Dena'ina language—Glossaries, vocabularies, etc. | Alaska—History, Local. | Cook Inlet (Alaska)—History, Local. Classification: LCC E99.T185 S54 2016 (print) | LCC E99.T185 (ebook) | DDC 916.4/34—dc23
LC record available at <https://lccn.loc.gov/2016017304>

Printed in the United States of America
All rights reserved

Translations from Dena'ina Athabascan

Shem Pete
Billy Pete
Katherine Nicolie
Sava Stephan
James Kari

Maps
Matt Ganley, Map Alaska: www.map-alaska.com

Music transcriptions
Thomas F. Johnston, University of Alaska Fairbanks

Design
Dixon J. Jones, UAF Rasmuson Library Graphics

Front cover
Lynx Lake and lakes west of Willow, photo by Fred Hirschmann AK-6838. See Plate 5 and Fig. 61.
Inset photos: top, see page 394; bottom left to right, see Plate 24, Fig. 3, Plate 9 and Map 17.

Back cover
See Fig. 5.

Vignette backgrounds
Close-up of dentalia shell necklace worn by Shem Pete at the Cook Inlet Region, Inc. potlatch on October 17, 1985. Dentalia shells are called *k'enq'ena* and the necklace is called *t'uvedi*. Photo by Kathy Kiefer.

Detail of a large birchbark basket, the elegant utility vessel of the Dena'ina, called *Ich'ehi* or *q'ey Ich'eha*. This basket was made by Emma Alexie of Lime Village. Digital image by Kim Armstrong, UAF Rasmuson Library Photographic Unit.

Preparation of the 2003 edition was funded in part by a grant from the State of Alaska, administered by the Department of Community and Regional Affairs, through the 1985 Cultural Heritage Program of Cook Inlet Region, Inc. Funding was also provided by Cook Inlet Region, Inc., and by Alaska Native Language Center, College of Liberal Arts, University of Alaska Fairbanks, and a grant in 2001 from The CIRI Foundation.

Contents

LIST OF MAPS AND TABLES	VII
FOREWORD BY WILLIAM BRIGHT	XI
PREFACE TO THE 2016 EDITION	XII
PREFACE TO THE 2003 EDITION	XIII
INTRODUCTION TO THE 1987 EDITION	XV
ACKNOWLEDGMENTS	XVII
TERMINOLOGY AND FORMAT	XVIII
SYMBOLS, ABBREVIATIONS, COMMON DENA'INA WORDS	XIX
THE DENA'INA AND AHTNA SOUND SYSTEMS AND ALPHABETS	XXI
Introduction	1
Shem Pete Elan Shit'i, 'I Am Shem Pete'	1
Billy Shem Pete	6
Sava Stephan, Sr.	8
The Dena'ina Language Area, Dena'ina Dialects, and Prehistoric Migrations, <i>by James Kari</i>	10
‡Prehistory of the Greater Upper Cook Inlet Region <i>by Douglas Reger and Brian T. Wygal</i>	15
The Russian Presence in Upper Cook Inlet, <i>by James Kari and James A. Fall</i>	17
Upper Inlet Dena'ina Regional Bands, Subsistence Patterns, and Traditional Leaders, <i>by James A. Fall</i>	22
Upper Inlet Dena'ina Bands and Band Names, <i>by James Kari</i>	27
Dena'ina Place Names and Territorial Knowledge, <i>by James Kari</i>	30
A Note on Map Production for <i>Shem Pete's Alaska</i> , <i>by Matt Ganley</i>	36
1 Western Cook Inlet	49
Chief Simeon Chickalusion, 1880–1957	59
Tanik'edi , a Dena'ina Technique for Salmon Fishing in Cook Inlet, <i>by Nickafor Alexan</i>	64
Beluga Hunting in the Tyonek Area, <i>by James Kari and James A. Fall</i>	75
Quyushi Uqu Ch'el'ani , Beluga Hunting, <i>by Shem Pete</i>	78
2 Lower Susitna River	81
The Wrangell Map of 1839, <i>by James Kari</i>	85
Early Historic Dena'ina Log and Pole Buildings, <i>by D. C. Beard</i>	94
Susitnu Htsukdu'a —The Susitna Story, <i>by Shem Pete</i>	96
3 Fish Creek	99
Notes on Dena'ina Watercraft, <i>by James Kari</i>	102
Baytnidahen and Red Shirt , <i>by Shem Pete, translated by Billy Pete</i>	106
4 Alexander Creek Drainage	109
Ghuliy —Potlatch Wealth, <i>by James Kari</i>	115
5 Lower Yentna River	119
Shem Pete, Dena'ina Singer and Composer, <i>by Thomas F. Johnston</i>	125
6 Shwenta River to the Rainy Pass Area	131
Htal—the 1932 Trip to Rainy Pass, <i>by Sava Stephan</i>	140
‡Introducing the Proto-Dene <i>Lex Loci</i> with Selected Dene Place Names South and West of the Alaska Range, <i>by James Kari</i>	144

Kind of a hot spring through the timber in there, and it's kind of a village meeting place."

14.11 **Kisidlentnu** • 'Point Current Creek'
Wolverine Creek

14.12 **Kisidlen Bena** • 'Point Current Lake'
Wolverine Lake

14.13 **C'ek'aali Cene** (Ahtna) • 'Whetstone Flat'
bluff on north side of Matanuska River between Palmer and Moose Creek

Jim Tyone: "It is like it has been filed by the wind."
Johnny Shaginoff reported that a village site was located on this bluff near the mouth of Moose Creek. "It was a well-known place for Natives. All big high bluffs have names."

14.14 **Chidaq'atnu** (Dena'ina); **Tsidek'etna** (Ahtna) • 'Grandmother's Place Creek'
Moose Creek, formerly called Tsadaka Creek

This name is distinctively Dena'ina in origin, based upon the word **chida** 'old lady, grandma.' Note however that Orth (1971:987) stated, "Tanaina Indian name meaning "moose," reported in 1898 by Capt Glenn." Mendenhall (1898, Map 58) wrote this as "Tsadaka."

Castner (1899:199): "Above Moose Creek on our [north] side of the Matanuska was an old camping place of the Matanuskas used in their journeys up and down the river."

According to Johnny Shaginoff and Katie Wade, there are burials on both sides of the mouth of Moose Creek. Some graves have washed out. Several people died here during the 1918 flu epidemic.

There is a modest king salmon run in Moose Creek. The fish were harvested with spears, according to Katie Wade.

§14.78 **Chidaq'a Denyi** (Dena'ina); **Tsidek'e Dyii** (Ahtna) • 'Grandmother's Place Canyon'
Tsadaka Canyon on Moose Creek

Cole et al. (1985:75): "As early as 1894, trappers and prospectors heard about the rich coal veins in the Matanuska Valley from local Indians."

In the 1940s the Wade and Larson families lived near the Premier Mine and hunted and harvested berries throughout this area.

14.15 **Chidaq'ashla Bena** • 'Lake of Grandmother's Little Place'
Wishbone Lake

A trail leads up from the Moose Creek homestead of the Shaginoffs and Wades up to Wishbone Lake, a popular fishing spot.

14.16 **Chidaq'ashla** • 'Grandmother's Little Place'
Wishbone Hill

Katie Wade said that this is thought of as a dangerous area. Many hunters have gotten lost here. A giant with feet that are turned backwards is said to have lived in the area.

§14.79 **Tsida K'ae Dghilaaye** (Ahtna) • 'Grandmother's Place Mountain'
Arkose Peak and ridge

The name of this ridge at the head of Moose Creek is implied from the suffix **-shla**, 'small, little' for 14.16, Wishbone Hill. Typically a hill or mountain noted as 'small' is paired with a nearby larger named feature.

According to Johnny Shaginoff, a trail led up Moose Creek and over the mountains to the upper Kashwitna River. The Larsons from Talkeetna used to travel this trail. "I know some people went through. Jack Larson went up Moose Creek, came down Kashwitna. He used to trap beaver someplace on Kashwitna." See 8.44.

§14.80 **Tanilent** • 'Where Current Flows to Water'
rapids probably above Moose Creek
Name provided by John Stump.

§14.81 †**U'el Naak' Dghiltaazi** (Ahtna) • 'Bar That Is Turning With It'
bar on Matanuska River at Sutton
Name from the text by Jim Tyone. See p. 226.

14.17 **Ts'es Tuk'ilaght** (Dena'ina); **Ts'es Tac'ilaexde** (Ahtna) • 'Where Fish Run Among Rocks'
Eska Creek; Sutton

A name written by Mendenhall in 1898 as "Chistookalat," or "Spring Creek," is clearly the Dena'ina name for Eska Creek.

The salmon fishery on the Matanuska River was on a much smaller scale than it was for the Dena'ina peoples on Knik Arm or for the Ahtna on the Copper River (for which see Simeone and Kari 2002.). The Chickaloon Ahtna did not spend much time salmon fishing. Some salmon were harvested here and at a small stream now called Mile Seventeen Creek (ponds near Eska Creek mouth) and at Little Granite Creek. Mary Shaginoff noted that she did little fishing following her family's move to Chickaloon in 1915. Johnny Shaginoff said that the salmon are good only the first two or three days of the run. In the past, salmon from the Eska area were mainly used as dog feed. The people in this area obtained dried salmon through trade with the people downstream at **Niteh**. See also Fall (1981:178, 203-205, and 1987:31, 36).

Katie Wade notes that the main traditional method of harvesting the salmon in the sidestreams and ponds along the Matanuska River was the fish spear. She also notes that the Ahtna-style **ciisi** or dipnet did not seem to have been used for any salmon fishing on the Matanuska River. Katie has noted that along the Matanuska River **ba'** or spread and scored dry fish was made only when there were enough good quality fish, and that they did not make **dzenax** or **nelk'oli**, the two styles of fermented fish that are made by the Ahtna on the Copper River.

14.18 **Neltsii Ce'e** (Ahtna) • 'Big One That Is Made Like a Face'
"Mount Sutton," mountain elev. 4415', "Crag"

Department of Natural Resources

ALASKA HISTORICAL COMMISSION

550 West 7th Avenue, Suite 1310
Anchorage, Alaska 99501
: 907.269.8721
dnr.oha@alaska.gov

ALASKA'S GEOGRAPHIC NAMES

a program of the

ALASKA HISTORICAL COMMISSION

The Alaska Historical Commission serves as the geographic names board for the State of Alaska (AS 41.35.350). The citizen board, chaired by the Lt. Governor, reviews names proposed for lakes, streams, mountains, and other physical features in the state. The commission coordinates its program with the U.S. Board on Geographic Names. The commission has established a process to consider proposals, as has the federal board. It takes at least a year to name a geographic feature.

In 1982 the State of Alaska enacted a law urging the state geographic names board to consider Alaska Native place names for geographic features in the state that have not previously been named, using Native language writing systems accepted by the Alaska Native Language Center, University of Alaska Fairbanks.

The U.S. Board on Geographic Names has a policy to identify a single official name and spelling for each geographic feature. One or more **variant** names can be identified if needed for clarity or reference. A variant is any current or historic name or spelling for a geographic feature other than the official name. It might appear on maps in parentheses following the official name.

To propose an official name for a geographic feature, an application is made to the Alaska Historical Commission. The form is available at:

http://www.dnr.alaska.gov/Assets/uploads/DNRPublic/parks/oha/designations/AKgeographicname_app.pdf or from the Office of History & Archaeology, 550 West 7th Ave., Suite 1310, Anchorage, AK 99501, 907.269.8721. The complete application and supporting material should be mailed, delivered to the office, or sent by email to dnr.oha@alaska.gov.

All proposals must be accompanied by a **map** showing U.S. Geological Survey information and identifying clearly the feature to be named. Additional maps are encouraged that show the immediate area around the feature to be named, or show the feature in relation to major geographic features, communities, and roads as appropriate. Photographs and other identifying aids are useful but are not required.

Evidence of local support is encouraged. These might be letters, petitions, newspaper articles, and letters to the editor, showing public awareness and endorsement of the proposed name. The proposer must establish that property owners of the feature or close to it have been made aware of the name proposal and given a chance to comment.

GUIDELINES

In the review of a proposed name, the Alaska Historical Commission uses the following guidelines and the policies of the U.S. Board on Geographic Names (*Principles, Policies, and Procedures for Domestic Geographic Names*, <http://geonames.usgs.gov/domestic/policies.htm>). A proposal must identify the type of proposed name from the categories below, address the special conditions, and establish why the feature needs an official name.

Local usage

Active local use is the single, best reason to name a geographic feature. Local usage refers to a name for a geographic feature that has evolved over a period of years, is called that name by the community or area as a whole, and is supported by local petitions, oral histories, documents, or other publications. A feature named by the applicant is not considered local usage, even when the applicant has called the feature by that name for a number of years.

The Alaska Historical Commission encourages the proposer to:

- include evidence of common verbal or written usage of the proposed name, such as petitions signed by local residents, resolutions, or letters of support for the proposed name from local government entities and community groups

Descriptive names (includes features named by applicant)

The Alaska Historical Commission asks the proposer to establish that:

- the name is relevant and descriptive of the feature
- the name is not in use elsewhere in the region (unless for a related feature)
- the name is in good taste and not frivolous
- the name has been used for a minimum of five years and evidence is provided of the use
- the property owners of the feature and those living adjacent to it have been notified of the proposed name and given a chance to comment on it

Alaska Native names

The Alaska Historical Commission asks the proposer to establish that:

- the name is or was in common local use and that use is documented
- the name is linguistically appropriate to the area in which it is to be applied
- the land owner has been notified of the proposed name and given a chance to comment on it
- there has been consultation on the spelling and use of diacritical marks (special marks not normally used in the English alphabet) with all Native groups in the area and with the Alaska Native Language Center, University of Alaska Fairbanks

Commemorative names *(please read the special section)*

The Alaska Historical Commission asks the proposer to establish that:

- . the individual has been deceased for five (5) years and evidence of this (such as an obituary and biography) is provided
- . the individual made a significant, acknowledged contribution over time to the community or state
- . the individual had a direct association with the feature for a period of years
- . there is local support by residents and local authorities as evidenced by including letters, petitions, and resolutions

Historical names

The Alaska Historical Commission asks the proposer to establish that:

- . the proposed name was in common local use and that use is documented
- . the name is clearly associated with the area

Name changes

The Alaska Historical Commission is reluctant to change existing names, but will consider doing so if the proposer demonstrates a compelling reason and if there is local support for the change. It has been shown that changing long-standing names can cause confusion and unforeseen costs.

The Alaska Historical Commission asks the proposer to establish, as appropriate, that:

- . the current official name is derogatory to a racial, ethnic, gender, or religious group
- . the current official name is duplicative and causing confusion
- . the current official name is not spelled correctly
- . there is extensive local support by local authorities and residents for the name proposed and the name change as evidenced by letters, local petitions, and resolutions from local government entities and organizations
- . the property owners of the feature and adjacent to it have been notified of the proposed name and given a chance to comment

Names in wilderness areas (including wilderness study areas)

The Alaska Historical Commission does not approve names for natural features in federally designated wilderness areas or study areas unless the proposer demonstrates that an exception is warranted.

The Alaska Historical Commission asks the proposer to establish that:

- there is an overriding need to name the feature (such as for purposes of safety, education, or area administration)

the land manager has been consulted and provided the opportunity to comment on the proposed name

Associative names

The Alaska Historical Commission accepts, in fact encourages, using the same name for features related to each other, such as forks of a river or a creek that comes from a glacier.

The Alaska Historical Commission asks to proposer to establish:

- the relationship between the two features using maps
- the property owners of the features and those adjacent to them have been notified of the proposed name and given a chance to comment
- the provisions for descriptive, commemorative, Alaska Native, wilderness and other categories are addressed as well

COMMEMORATIVE NAMES

A commemorative name of a geographic feature is to honor and recognize an individual who has made an outstanding or noteworthy contribution to an area or the state, or is a national or international figure. A commemorative name might be for an event. A commemorative place name is not intended to memorialize a family member, friend, pet or animal.

Proposals containing a given name (first or last) or nickname of an individual are considered commemorative. The full name of a person as part of a geographic name normally is not approved unless surname use alone would be ambiguous.

The person must have been deceased *for at least five (5) years* before the Alaska Historical Commission will consider a commemorative name proposal. An obituary or biography of the individual must be part of the proposal. The information should establish the individual's *direct association* with the feature, and that the individual made a *significant contribution* to the area in which the feature is located.

Direct association. To commemorate an event, it should have occurred at or near the feature or have had an impact on the region or state. To commemorate a person, the individual should have been physically present at or near the feature for a number of years, or engaged in some activity that affected the feature. A person's death on or at a feature, such as a mountaineering accident or plane crash, or the ownership of land adjacent to or of the feature, and recreational use or visits to a feature do not normally meet this criterion.

Significance. The proposer must establish why the event or individual is particularly worthy of recognition. The importance of an event can be in the social, political, economic, scientific, or cultural areas. The contribution of an individual must be notable, of consequence, and have had an impact on the community,

region or state. A significant contribution is an extraordinary effort, achievement, or impact. It may come from the individual's work, professional or civic activities, and can be in the social, political, economic, scientific, or cultural areas. The contribution should have benefitted Alaskans beyond the individual's immediate circle of family and friends. Generally, these individuals will have been recognized through a letter of thanks from the Governor or Legislature, certificates of appreciation from an agency or group, awards, newspaper articles featuring the contribution made, dedication of local man-made features (park, street, garden, building), and the like. The individual might be a historical figure.

Features in Alaska can be named for events of significance nationally or internationally. Features also can be named for persons who made a significant contribution nationally or internationally, especially if the contribution was exceptional and unique. In such instances, the requirement of direct association does not need to be met, but the other requirements for commemorative names must be met.

Commemorative name proposals must demonstrate local residents have been advised of the proposal. Proposals should include evidence of local support by local authorities and residents attesting to the individual's association with the feature and significant contribution locally, to the state or nation, or internationally.

GEOGRAPHIC NAMING PROCESS

Upon receipt, a name proposal is reviewed for completeness. If necessary, the applicant is asked for additional information. Of particular concern is that adjacent land owners have been advised of the proposed name and had a chance to comment on it.

A Domestic Geographic Name Report (a U.S. Board on Geographic Names form) is prepared and sent with a map and supporting information to relevant Native groups, public land managers, local governments, and other interested parties and local media for comment on the proposed name. For proposed Native names, the Alaska Native Language Center at the University of Alaska Fairbanks is consulted. Interested parties might include local civic groups, historical organizations, pilot associations, and outdoor groups.

The Alaska Historical Commission members receive the report, map, and all public input before discussing and acting to approve or not approve a proposed name. The nine-member commission meets at least two times a year. Commission members reference these guidelines in their formal action. The applicant is notified of the meeting at which the commission will consider their proposed name and provided with copies of comments received from reviewers. Every meeting has a public comment period when an applicant and others interested in the proposed name can address commission members. Place names approved by the Alaska Historical Commission are official for the State of Alaska.

Following the meeting, applicants are notified in writing of the Alaska Historical Commission's action on their proposal. Unless tabled, the Domestic Geographic Name Report, all comments received, and record of the commission's action are sent to the U.S. Board on Geographic Names. Staff there also have a review process before the board considers and votes on a proposed name. The USBGN is the final word on choice, spelling, and official use of the place names in the U.S. Its approval makes a name official nationally. The name is entered in the Geographic Name Information System (GNIS), <http://geonames.usgs.gov/domestic/>. When a

federal map is revised and updated an effort is made to add the name, but approval does not guarantee a name will appear on USGS and other federal maps.

The Alaska Office of History & Archaeology has a program manager for geographic names who can answer questions or provide additional information.

[AHC adopted 12.8.2015]

[Link updates 04.05.2017]

**INTRODUCTION FOR
PUBLIC HEARING:
LEGISLATIVE
MATTERS
Resolution No. 24-18
Geographic Renaming
Mount Carola**

This Page Intentionally Left Blank



THE STATE of ALASKA

GOVERNOR MICHAEL J. DUNLEAVY

Department of Natural Resources

DIVISION OF PARKS & OUTDOOR RECREATION
Office of History and Archaeology

550 West 7th Avenue, Suite 1310
Anchorage, AK 99501-3565
907.269.8721
http://dnr.alaska.gov/parks/oha

June 3, 2024

Re: 3050-3 Mount Carola

Matanuska-Susitna Borough
350 E Dahlia Ave
Palmer, Alaska 99645
mike.brown@matsugov.us
cc: Peggy.Horton@matsugov.us

Dear Borough Manager,

The Alaska Historical Commission has received a geographic name proposal to name an unnamed mountain peak found in Denali National Park and Preserve between Ruth Glacier and Tokasitna Glacier north of Petersville. The proposed name is "Mount Carola" and is a commemorative name for Carola "Carol" J. Young of Petersville and Talkeetna. A copy of the proposal is enclosed for review, as well as a map showing the feature's location, and the guidelines for geographic names that the Alaska Historical Commission members have established.

The commission would appreciate your comments on the proposed name. To object or to endorse the proposed name, you must respond in writing. Your comments need to be received by August 15, 2024. You can respond with a letter or by writing your comments in the box below. Please send your comments by mail to the address above or by email to dnr.oha@alaska.gov.

If you have any questions about the state geographic names program, please contact Katie Ringsmuth at email katie.ringsmuth@alaska.gov or by phone at (907) 269-8714.

Sincerely,

[Handwritten signature of Katherine Ringsmuth]

Katherine Ringsmuth
Geographic Names Coordinator and State Historian
KJR: mms

Enclosures

I ___ object / ___ endorse the proposed name because:
Signed: _____ Date: _____

This proposal is to name a mountain peak found north of Petersville, between Ruth Glacier and Tokasitna Glacier, after a miner and pioneer woman of Alaska, Carola “Carol” J. Young, who lived from 1936-2018. The proposed name is “Mt Carola” and is commemorative. As a commemorative name proposal, the proposer must demonstrate that the individual in question has been deceased for five years before the proposal; that the individual made a significant, acknowledged contribution to the community and/or state over time; the individual had a direct association with the feature in question for a period of years, and that there is local support for the proposed name.

According to the proposer, Carola Young’s daughter, Carola, lived and worked in the Petersville and Talkeetna areas for a long time. She previously mined near Cache Creek on Falls Creek and owned and operated the Fairview Inn in Talkeetna from 1971 to 1978. She helped establish the VAFW Post 3836 in Talkeetna in the 1970s and worked in mining and with mining organizations for decades. She served as the president of the Yentna Mining District for 23 years, was a member of the Alaska Miners Association for 40 years and was appointed to serve on the South Denali Development Steering Committee to represent Yentna miners by then Governor Tony Knowles. Through the committee, she helped implement the SNOWtrac program for groomed winter trails throughout the state.

The proposer has also collected several letters and emails demonstrating local support for the proposed new name “Mt. Carola,” with many citing her contributions to the mining community in Yentna and Alaska overall.

Is the recommended name in local usage? Yes No If Yes, approximately how many years? _____

Is there local opposition to, or conflict with the recommended name (as located)? None Reported.

For proposed new name, please provide evidence that feature is unnamed: No recorded name for the feature on GNIS.

Additional information:

The peak is found within the boundaries of Denali National Park & Preserve in “Eligible Wilderness.”

Organizations for Consultation:

- Chickaloon Native Village
- Cook Inlet Regional, Inc.
- Cook Inlet Tribal Council
- Doyon, Limited
- Denali National Park & Preserve
- Board of Geographic Names National Park Service Representative
- Knik Tribal Council
- Matanuska-Susitna Borough
- Mountaineering Club of Alaska
- Native Village of Cantwell
- Native Village of Eklutna
- Tanana Chiefs Conference

Copy submitted by: Name (first, M.I., last)	Title	Phone (day)	Date
Michele Stevens			
Company or Agency	Address (city, State, and Zip)		
	Anchorage, AK		
Copy Prepared by (if other than above)	Title	Phone (day)	Date
Judith E. Bittner	SHPO	(907) 269-8721	
Company or Agency	Address (city, State, and Zip)		
Alaska Department of Natural Resources/Office of History and Archaeology	550 West 7 th Ave., Suite 1310, Anchorage, AK 99501-3565		
Authority for Recommended Name:	Mailing Address and Telephone	Occupation	Years in Area

Proposed Geographic Name: Mount Carola



In Remeberance of Carola "Carol" June Young



Carola "Carol" June Young, born on December 15, 1936 in Scotia, California, passed away at age 81 on April 30, 2018 at St. Elias Hospital in Anchorage, Alaska. Carol was a warrior against her battle with cancer and heart failure. I have never seen anyone so brave and strong.

Carol came to Alaska in 1956 married to James H Stevens Sr.; Jim was an Air traffic Controller with the Tactical Air Command in the Air Force. It was their dream to live the adventures of Alaska. While living in Anchorage Carol worked at Providence Hospital as a Medical Records Technician. In 1967 Jim and Carol, along with their three children moved to Talkeetna and built a log home. They enjoyed dog mushing, fishing and hunting. Their Alaska dream was cut short when Jim passed away March 3, 1970 while serving in active duty. He was a young age of 38. After Jim passed Carol helped with establishing the VFW Post 3836 in Talkeetna, Alaska.

In 1971 Carol and her mother Babe Barnes bought The Fairview Inn in Talkeetna. They remolded The Fairview Inn after the Inn caught fire and destroyed the floor. They always had hot soup or chili in a pot for whomever was hungry. They made sure everyone was welcome. They hired an artist to paint pictures of all of the pioneers or "Old Timers" of Talkeetna. The paintings are still on the walls to this day. Carol built a small downstairs apartment in the Inn for Babe. They felt the need to have 24-hour presence in case anyone needed a room.

In 1972 Carol and a friend ventured in a canoe down the Yukon River from Eagle, Alaska to the Norton Sound area of the Bering Sea. This trek took 5 weeks and covered some 2,100 miles. The canoe was special made just for this trek.

In 1978 Carol sold the Fairview Inn and married Robert Young a gold miner. She continued to live the adventures of Alaska. Living in the wilderness without electricity or water, yet somehow Carol made mining camp a luxury by plumbing the water to camp via gravity fed; building a shower house and extra accommodations for family and friends. There was always homemade bread and good food at camp. Later in life a generator made camp even more luxurious.

Carol was a "Jack of All Trades Master of None" she could be a Carpenter, a Plumber, an Electrician and Attorney at law, without the diploma and she was a Miner. She was computer literate and I often admired how she kept up with technology. She could build a house from the ground up. She loved refurbishing old trailers, 28 to be exact through out her lifetime. Her favorites were "Vintage" Airstreams. She refurbished five Airstreams total and all had their own special color theme.

For 23 years Carol was the President of Yentna Mining District (Petersville, Alaska). Governor Tony Knowles appointed her to serve on the South Denali Development Plan Committee. She spent many hours and days for 15 years representing the miners, and working with the State of Alaska, The National Park Service, and others, trying to stop the construction of a Visitor Center under the South Denali Development Plan for the Petersville Area. She along with others were successful in stopping the Visitor Center. Carol was also instrumental in implementing the SNOWtrac program. A program that is for groomed winter trail use throughout the State of Alaska.

Carol loved her Chevy Turbo Duramax diesel truck with duel stacks. She loved riding Snow Machines and ATV's, she loved reading books, she loved birds and she had many animal friends, both domestic and wild.

Carol is survived by her spouse: Robert Young, her sons, James H Stevens II and Jerald W Stevens; and her daughter, Michele Stevens, her grandsons: James Stevens III and Jason Stevens, and brother Gene Gosnell. Carol was preceded in death by her spouse James H Stevens Sr., and her mother Babe Barnes.

In lieu of flowers, donations may be made to: Petersville Search and Rescue P. O. Box 13392 Trapper Creek, Alaska 99683 or petersvillecommunitynpc.org Condolences to the family may be sent to Michele Stevens P.O. Box 20 Talkeetna, Alaska 99676. Friends and family can pay their respects at a celebration of life for Carola and her Mother Babe Barns to be announced soon in Talkeetna, Alaska.

Carola J Young was a miner and a pioneer women of Alaska. She was fluent in mining law, was computer literate, and was a "jack of all trades and master of none." She lived her mining adventures near Cache Creek on Falls Creek. Living in the wilderness without running water and electricity, yet somehow she made mining camp a luxury, she plumbed the camp via gravity fed water; built a shower house and extra accommodations for family and friends. We called it Youngsville. Carola could build a house from the ground up. She loved refurbishing old trailers, 28 to be exact throughout her lifetime most units where for mining camp. Her favorites were "vintage" Airstreams, she refurbished 5 Airstreams total and all had their own special color theme.

There was always homemade bread and good food at camp. Later in life a generator made camp more luxurious. The State workers and geologist working in the area always stopped in for fresh coffee and cinnamon rolls.

Governor Tony Knowles appointed her to serve on the South Denali Development Steering Committee representing the Yenta miners. She served as President of the Yenta Mining District for 23 years. Carola spent 15 years representing the miners, working with the state of Alaska, the national parks service, and others, in efforts to stop the construction of the South Denali visitor center in the Petersville area. She, along with others were successful in stopping the visitor center which is now at Kesugi Ken area near Beyers Lake. Carola was a member of Alaska Miners Assoc. for 40 years.

Carola and her mother Babe Barnes owned the Fairview Inn in Talkeetna. They remodeled the Fairview Inn after the Inn caught fire and destroyed the floor. They always had hot soup or chili in a pot for whomever was hungry, Miners, Mountain climbers, people who lived in the bush and locals. They made sure everyone was welcome. To honor the "old timers" Carola hired an artist to paint the "old timers" of Talkeetna. The paintings are still on the wall to this day. Carola built a small apartment in the Inn for her mom Babe. They felt the need to have a 24 hour presence in case anyone needed a room or food.

Carola helped establish the VFAW post 3836 in Talkeetna. She was instrumental in establishing the SnowTRAC program. A program for winter groomed trails and safety throughout the State of Alaska.



Talkeetna Historical Society and Museum

PO Box 76 Talkeetna Alaska 99676
907-733-2487

To whom it may concern,

My name is Autumn Merritt, and I am the Executive Director of the Talkeetna Historical Society. I am writing to you today in support of Michele Stevens and her request to have a mountain named after her beloved and influential mother, Carola June Young.

Carol's impact on the town of Talkeetna cannot be understated, and she is remembered well by her contemporaries. She was one of the many owners of the Fairview Inn, widely considered to be the heart of the town. She and her mother, Babe Barnes, remodeled it after it had been badly damaged in a fire and ran it for nearly a decade. It was they who commissioned the famous pastels of the "old-timers" that still grace the walls to this day. Carol helped establish the VFW Post 3836, which is an extremely important asset to Talkeetna. And for 23 years, she served as the President of the Yentna Mining District in Petersville, an area that shares a long and storied history with ours. She was instrumental in preventing the construction of a visitors' center which would have permanently altered the rural character of that part of the country. Talkeetna would not exist as it is today without the mining operations of Petersville, and we have an abiding interest in the preservation of the region and the continuation of the natural and cultural resources that enhance it.

I appeal to the committee to consider Ms. Stevens' petition to immortalize her mother and her accomplishments forever. The honor of having a mountain bearing her name – one that overlooks the place where Carol spent so much time and which she fought so hard to protect - is a fitting memorial to the life of a true Alaskan woman.

Respectfully,

Autumn Merritt

Executive Director
Talkeetna Historical Society and Museum



121 W. FIREWEED SUITE 120 | ANCHORAGE, ALASKA | 99503 | 907.563.9229 | ALASKAMINERS.ORG

February 9, 2024

Alaska Department of Natural Resources
Office of History and Archaeology
500 W 7th Ave Suite 1310
Anchorage, AK 99501

Re: Naming mountain after Carola Young

To whom it may concern:

The Alaska Miners Association (AMA) writes to provide its support for naming a mountain in our state after Carola J. Young, an incredibly deserving recipient.

AMA is a professional membership trade organization established in 1939 to represent the mining industry in Alaska. We are composed of more than 1,400 members that come from eight statewide branches: Anchorage, Denali, Fairbanks, Haines, Juneau, Kenai, Ketchikan/Prince of Wales, and Nome. Our members include individual prospectors, geologists, engineers, suction dredge miners, small family mines, junior mining companies, and major mining companies, Alaska Native Corporations, and the contracting sector that supports Alaska's mining industry.

Carola came to Alaska in 1956 with her husband in the United States Air Force and they immediately fell in love with our great state. It only took them two years to move to Talkeetna, build a log home, and begin dog mushing, fishing and hunting. Tragically, Carola's husband passed while serving in active duty, but Carola channeled her heartbreak into establishing the VFW Post 3836 in Talkeetna and becoming involved in assisting our armed forces members.

She then purchased the Fairview Inn in Talkeetna, remodeling it and establishing it as a place where anyone could come in day or night for a hot meal and a comfortable place to sleep. Miners, mountain climbers, rural Alaskans and locals would gather at the Fairview and eventually Carola hired an artist to commission the iconic "old timers" paintings on the walls of the Fairview Inn to this day.

In 1978, Carola sold the Fairview Inn when she married Bob Young, a gold miner, and moved to the Petersville area to help with their placer mining operation. There, she continued her spirit of hospitality and living the adventures of Alaska in a mining camp without electricity or water. Somehow Carol made it a luxury by plumbing the water to camp via a gravity fed system and building a shower house and extra accommodations for family and friends. The kitchen always had homemade bread and good food, and it got even better when a generator made camp more luxurious. State agency personnel and geologists working in the area always stopped in for fresh coffee and cinnamon rolls.

Carola became very active in the area, serving as the President of the Yentna Mining District for 23 years. Governor Tony Knowles appointed her to serve on the South Denali Development Steering Committee representing the Yentna miners, working with the State of Alaska, the National Park Service, and others, in



efforts to relocate the South Denali visitor center away from the Petersville area to Kesugi Ken near Beyers Lake. Her service ensured that miners in the District were able to continue their livelihoods and the visitors to our state had top-notch facilities elsewhere in the Denali area. This is the balance and spirit Alaskans are known for and proud of.

Her public service did not stop there – she was instrumental in establishing SnowTRAC, a program for winter groomed trails and safety for mushers, snowmachiners, and other trail users. She was also active in the Petersville Search and Rescue program. Last, and certainly not least in our eyes, she was a member of the Alaska Miners Association for over 40 years, until she passed in 2018.

Carola Young embodies the Alaska spirit and is the kind of legend we can all be proud of, and AMA could not be more proud to endorse naming a mountain after her.

Please do not hesitate to contact me if I can provide any further information for you to consider and honor this request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Deantha Skibinski".

Deantha Skibinski
Executive Director

From: [Ringsmuth, Katie J \(DNR\)](#)
To: [Sine, Mary M \(DNR\)](#)
Subject: FW: Naming a Mountain for Carol Young
Date: Monday, March 4, 2024 8:24:26 AM

Hi Mary,

Do we have a file open for Carol Young?

If so, would you mind adding the following comments?

If we don't have a file open, we may need to contact the commenter and suggest they submit a proposal.

Thanks!

katie

Katie Ringsmuth

State Historian
Alaska State Historic Preservation Office
Office of History & Archaeology

550 West 7th Avenue, Suite 1310
Anchorage, AK 99501-3561
Direct: 907-269-8714
katie.ringsmuth@alaska.gov
<http://dnr.alaska.gov/parks/oha>

From: Gease, Ricky John (DNR) <ricky.gease@alaska.gov>
Sent: Sunday, March 3, 2024 11:42 AM
To: Ringsmuth, Katie J (DNR) <katie.ringsmuth@alaska.gov>
Cc: Bittner, Judith E (DNR) <judy.bittner@alaska.gov>
Subject: Fwd: Naming a Mountain for Carol Young

FYI

Begin forwarded message:

From: Bob Loeffler <bobl@jadenorth.com>
Date: March 3, 2024 at 11:07:12 AM AKST
To: "Gease, Ricky John (DNR)" <ricky.gease@alaska.gov>
Cc: aksnowgirl@icloud.com
Subject: Naming a Mountain for Carol Young

[You don't often get email from bobl@jadenorth.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

CAUTION: This email originated from outside the State of Alaska mail system. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Director Gease:

I understand there is a movement to name a mountain in the Yentna Mining District overlooking the Tokositna River for Carol Young, who died in 2018. Please add my name to that movement, and please forward this e-mail to whomever is considering such changes. Thank you.

Ms. Young was for many years the heart of the Yentna Mining District. She was the policy guide, spokesperson, and someone people came to for information and advice. When I was Director of the division of Mining, Land and Water, I was the beneficiary of her advice for many years and I valued it. Naming the mountain after her would be a fitting memorial

Sincerely,

- Bob Loeffler

Bob Loeffler
907-250-4621
bobl@jadenorth.com

Department of Natural Resources

ALASKA HISTORICAL COMMISSION

550 West 7th Avenue, Suite 1310
Anchorage, Alaska 99501
: 907.269.8721
dnr.oha@alaska.gov

ALASKA'S GEOGRAPHIC NAMES

a program of the

ALASKA HISTORICAL COMMISSION

The Alaska Historical Commission serves as the geographic names board for the State of Alaska (AS 41.35.350). The citizen board, chaired by the Lt. Governor, reviews names proposed for lakes, streams, mountains, and other physical features in the state. The commission coordinates its program with the U.S. Board on Geographic Names. The commission has established a process to consider proposals, as has the federal board. It takes at least a year to name a geographic feature.

In 1982 the State of Alaska enacted a law urging the state geographic names board to consider Alaska Native place names for geographic features in the state that have not previously been named, using Native language writing systems accepted by the Alaska Native Language Center, University of Alaska Fairbanks.

The U.S. Board on Geographic Names has a policy to identify a single official name and spelling for each geographic feature. One or more **variant** names can be identified if needed for clarity or reference. A variant is any current or historic name or spelling for a geographic feature other than the official name. It might appear on maps in parentheses following the official name.

To propose an official name for a geographic feature, an application is made to the Alaska Historical Commission. The form is available at:

http://www.dnr.alaska.gov/Assets/uploads/DNRPublic/parks/oha/designations/AKgeographicname_app.pdf or from the Office of History & Archaeology, 550 West 7th Ave., Suite 1310, Anchorage, AK 99501, 907.269.8721. The complete application and supporting material should be mailed, delivered to the office, or sent by email to dnr.oha@alaska.gov.

All proposals must be accompanied by a **map** showing U.S. Geological Survey information and identifying clearly the feature to be named. Additional maps are encouraged that show the immediate area around the feature to be named, or show the feature in relation to major geographic features, communities, and roads as appropriate. Photographs and other identifying aids are useful but are not required.

Evidence of local support is encouraged. These might be letters, petitions, newspaper articles, and letters to the editor, showing public awareness and endorsement of the proposed name. The proposer must establish that property owners of the feature or close to it have been made aware of the name proposal and given a chance to comment.

GUIDELINES

In the review of a proposed name, the Alaska Historical Commission uses the following guidelines and the policies of the U.S. Board on Geographic Names (*Principles, Policies, and Procedures for Domestic Geographic Names*, <http://geonames.usgs.gov/domestic/policies.htm>). A proposal must identify the type of proposed name from the categories below, address the special conditions, and establish why the feature needs an official name.

Local usage

Active local use is the single, best reason to name a geographic feature. Local usage refers to a name for a geographic feature that has evolved over a period of years, is called that name by the community or area as a whole, and is supported by local petitions, oral histories, documents, or other publications. A feature named by the applicant is not considered local usage, even when the applicant has called the feature by that name for a number of years.

The Alaska Historical Commission encourages the proposer to:

- include evidence of common verbal or written usage of the proposed name, such as petitions signed by local residents, resolutions, or letters of support for the proposed name from local government entities and community groups

Descriptive names (includes features named by applicant)

The Alaska Historical Commission asks the proposer to establish that:

- the name is relevant and descriptive of the feature
- the name is not in use elsewhere in the region (unless for a related feature)
- the name is in good taste and not frivolous
- the name has been used for a minimum of five years and evidence is provided of the use
- the property owners of the feature and those living adjacent to it have been notified of the proposed name and given a chance to comment on it

Alaska Native names

The Alaska Historical Commission asks the proposer to establish that:

- the name is or was in common local use and that use is documented
- the name is linguistically appropriate to the area in which it is to be applied
- the land owner has been notified of the proposed name and given a chance to comment on it
- there has been consultation on the spelling and use of diacritical marks (special marks not normally used in the English alphabet) with all Native groups in the area and with the Alaska Native Language Center, University of Alaska Fairbanks

Commemorative names *(please read the special section)*

The Alaska Historical Commission asks the proposer to establish that:

- . the individual has been deceased for five (5) years and evidence of this (such as an obituary and biography) is provided
- . the individual made a significant, acknowledged contribution over time to the community or state
- . the individual had a direct association with the feature for a period of years
- . there is local support by residents and local authorities as evidenced by including letters, petitions, and resolutions

Historical names

The Alaska Historical Commission asks the proposer to establish that:

- . the proposed name was in common local use and that use is documented
- . the name is clearly associated with the area

Name changes

The Alaska Historical Commission is reluctant to change existing names, but will consider doing so if the proposer demonstrates a compelling reason and if there is local support for the change. It has been shown that changing long-standing names can cause confusion and unforeseen costs.

The Alaska Historical Commission asks the proposer to establish, as appropriate, that:

- . the current official name is derogatory to a racial, ethnic, gender, or religious group
- . the current official name is duplicative and causing confusion
- . the current official name is not spelled correctly
- . there is extensive local support by local authorities and residents for the name proposed and the name change as evidenced by letters, local petitions, and resolutions from local government entities and organizations
- . the property owners of the feature and adjacent to it have been notified of the proposed name and given a chance to comment

Names in wilderness areas (including wilderness study areas)

The Alaska Historical Commission does not approve names for natural features in federally designated wilderness areas or study areas unless the proposer demonstrates that an exception is warranted.

The Alaska Historical Commission asks the proposer to establish that:

- there is an overriding need to name the feature (such as for purposes of safety, education, or area administration)

the land manager has been consulted and provided the opportunity to comment on the proposed name

Associative names

The Alaska Historical Commission accepts, in fact encourages, using the same name for features related to each other, such as forks of a river or a creek that comes from a glacier.

The Alaska Historical Commission asks to proposer to establish:

- the relationship between the two features using maps
- the property owners of the features and those adjacent to them have been notified of the proposed name and given a chance to comment
- the provisions for descriptive, commemorative, Alaska Native, wilderness and other categories are addressed as well

COMMEMORATIVE NAMES

A commemorative name of a geographic feature is to honor and recognize an individual who has made an outstanding or noteworthy contribution to an area or the state, or is a national or international figure. A commemorative name might be for an event. A commemorative place name is not intended to memorialize a family member, friend, pet or animal.

Proposals containing a given name (first or last) or nickname of an individual are considered commemorative. The full name of a person as part of a geographic name normally is not approved unless surname use alone would be ambiguous.

The person must have been deceased *for at least five (5) years* before the Alaska Historical Commission will consider a commemorative name proposal. An obituary or biography of the individual must be part of the proposal. The information should establish the individual's *direct association* with the feature, and that the individual made a *significant contribution* to the area in which the feature is located.

Direct association. To commemorate an event, it should have occurred at or near the feature or have had an impact on the region or state. To commemorate a person, the individual should have been physically present at or near the feature for a number of years, or engaged in some activity that affected the feature. A person's death on or at a feature, such as a mountaineering accident or plane crash, or the ownership of land adjacent to or of the feature, and recreational use or visits to a feature do not normally meet this criterion.

Significance. The proposer must establish why the event or individual is particularly worthy of recognition. The importance of an event can be in the social, political, economic, scientific, or cultural areas. The contribution of an individual must be notable, of consequence, and have had an impact on the community,

region or state. A significant contribution is an extraordinary effort, achievement, or impact. It may come from the individual's work, professional or civic activities, and can be in the social, political, economic, scientific, or cultural areas. The contribution should have benefitted Alaskans beyond the individual's immediate circle of family and friends. Generally, these individuals will have been recognized through a letter of thanks from the Governor or Legislature, certificates of appreciation from an agency or group, awards, newspaper articles featuring the contribution made, dedication of local man-made features (park, street, garden, building), and the like. The individual might be a historical figure.

Features in Alaska can be named for events of significance nationally or internationally. Features also can be named for persons who made a significant contribution nationally or internationally, especially if the contribution was exceptional and unique. In such instances, the requirement of direct association does not need to be met, but the other requirements for commemorative names must be met.

Commemorative name proposals must demonstrate local residents have been advised of the proposal. Proposals should include evidence of local support by local authorities and residents attesting to the individual's association with the feature and significant contribution locally, to the state or nation, or internationally.

GEOGRAPHIC NAMING PROCESS

Upon receipt, a name proposal is reviewed for completeness. If necessary, the applicant is asked for additional information. Of particular concern is that adjacent land owners have been advised of the proposed name and had a chance to comment on it.

A Domestic Geographic Name Report (a U.S. Board on Geographic Names form) is prepared and sent with a map and supporting information to relevant Native groups, public land managers, local governments, and other interested parties and local media for comment on the proposed name. For proposed Native names, the Alaska Native Language Center at the University of Alaska Fairbanks is consulted. Interested parties might include local civic groups, historical organizations, pilot associations, and outdoor groups.

The Alaska Historical Commission members receive the report, map, and all public input before discussing and acting to approve or not approve a proposed name. The nine-member commission meets at least two times a year. Commission members reference these guidelines in their formal action. The applicant is notified of the meeting at which the commission will consider their proposed name and provided with copies of comments received from reviewers. Every meeting has a public comment period when an applicant and others interested in the proposed name can address commission members. Place names approved by the Alaska Historical Commission are official for the State of Alaska.

Following the meeting, applicants are notified in writing of the Alaska Historical Commission's action on their proposal. Unless tabled, the Domestic Geographic Name Report, all comments received, and record of the commission's action are sent to the U.S. Board on Geographic Names. Staff there also have a review process before the board considers and votes on a proposed name. The USBGN is the final word on choice, spelling, and official use of the place names in the U.S. Its approval makes a name official nationally. The name is entered in the Geographic Name Information System (GNIS), <http://geonames.usgs.gov/domestic/>. When a

federal map is revised and updated an effort is made to add the name, but approval does not guarantee a name will appear on USGS and other federal maps.

The Alaska Office of History & Archaeology has a program manager for geographic names who can answer questions or provide additional information.

[AHC adopted 12.8.2015]

[Link updates 04.05.2017]

This Page Intentionally Left Blank

KP VT QF WE VKQP 'HQT 'RWDNKE''

J GCTKI <NGI KUNCVKG''

O CVVGTU''

Tguqnwkp 'P q046/3;

Qhkek n'Uvt ggvi'c'pf 'J k j y c{ 'Rcp

This Page Intentionally Left Blank

MATANUSKA-SUSITNA BOROUGH INFORMATION MEMORANDUM IM No. 24-133

SUBJECT: AN ORDINANCE AMENDING MSB 15.24.030 (B) (46), OFFICIAL STREETS AND HIGHWAYS PLAN (OSHP) TO UPDATE ENGSTROM ROAD TO TRUNK ROAD CONNECTION ON THE MAP.

AGENDA OF: September 3, 2024

ASSEMBLY ACTION:

AGENDA ACTION REQUESTED: Introduce and set for public hearing.

Route To	Signatures
Originator - Planning Div	7/17/2024 <input checked="" type="checkbox"/> Rodney S. Fodge <small>Signed by: Rodney Fodge</small>
Planning Director	<input checked="" type="checkbox"/>
Finance Director	<input checked="" type="checkbox"/>
Borough Attorney	<input checked="" type="checkbox"/>
Borough Manager	<input checked="" type="checkbox"/>
Borough Clerk	<input checked="" type="checkbox"/>

- ATTACHMENT (S) :** HDL Reconnaissance Study - 2023 (37pp)
 Connector_Alternate Analysis Letter - 2023 (4pp)
 Planning Commission Resolution (2pp)
 Transportation Advisory Board Resolution (2pp)
 OSHP Current Overview Map (2pp)
 OSHP Proposed Overview Map (2pp)
 OSHP Zoomed Proposed Overview Map (1 page)
 Ordinance Serial No. 24-073 (2 pp)

SUMMARY STATEMENT:

The Official Streets and Highways Plan (OSHP) is a map that identifies future roads, corridors, and upgrades necessary to safely and efficiently accommodate our growing population and its transportation needs. The OSHP is a map-based component of the MSB Long Range Transportation Plan (LRTP) focused on preserving future road corridors. The OSHP is one of the Borough's most used transportation planning tools and requires a minor amendment to the official map.

In July 2023, a reconnaissance level study was finalized analyzing potential alternate routes for a connector road from Engstrom Road to Trunk Road. Based upon the report provided by HDL Engineering Consultants, three alternate options were presented: a No-build, South Alignment, and North Alignment option. Based on purpose and need, the North Alignment was the preferred alternate route. The North Alignment helps with future planning and matches the MSB's long-term goals. The North Alignment has been previously approved and funded through Transportation Improvement Program in 2021. The current map-component of the OSHP needs to be updated to reflect the North Alignment.

RECOMMENDATION OF ADMINISTRATION:

Adopt the legislation as presented.

ENGSTROM ROAD TO TRUNK ROAD CONNECTOR

RECONNAISSANCE ENGINEERING REPORT

Prepared for:

MATANUSKA-SUSITNA BOROUGH

Prepared by:



Reviewed by:

Shawn Hull, P.E.
Project Manager

HDL Engineering Consultants, LLC
1617 S. Industrial Way, Suite 3.
Palmer, AK 99645
907.746.5230

JULY 31, 2023

TABLE OF CONTENTS

1.0 PROJECT DESCRIPTION	1
1.1 Scope of the Report	1
1.2 Project Location and Description	1
1.3 Existing Facilities and Land Use	3
1.4 Purpose and Need	3
2.0 DESIGN STANDARDS AND GUIDELINES	3
3.0 DESIGN CRITERIA AND TYPICAL SECTION	4
4.0 ALTERNATIVES	4
4.1 No-Build Option	4
4.2 South Alignment.....	4
4.3 North Alignment.....	7
5.0 GEOTECHNICAL EVALUATION	8
5.1 South Alignment.....	9
5.2 North Alignment.....	9
5.3 Preliminary Geotechnical Recommendations.....	9
6.0 HYDROLOGY AND HYDRAULICS	10
7.0 ENVIRONMENTAL COMMITMENTS AND CONSIDERATIONS	11
8.0 RIGHT-OF-WAY REQUIREMENTS.....	12
9.0 PEDESTRIAN AND BICYCLE FACILITIES	12
10.0 UTILITY RELOCATION AND COORDINATION.....	12
11.0 COST ESTIMATE.....	13
11.1 South Alignment	13
11.2 North Alignment	13
11.3 Trunk Road Intersection	13
12.0 EXCEPTIONS TO DESIGN STANDARDS	14
13.0 OTHER CONSIDERATIONS.....	14
13.1 Wind and Snow Drift	14
13.2 DOT&PF Facilities.....	14

FIGURES

Figure 1 Location and Vicinity Map..... 2
Figure 2: South Alignment 5
Figure 3: North Alignment 7

TABLES

Table 1: Preliminary Structural Section Recommendations..... 10
Table 2: Preliminary Environmental Resources Present 11

APPENDICES

- Appendix A Design Criteria**
- Appendix B Preliminary H&H Overview**
- Appendix C Preliminary Environmental Overview**

ABBREVIATIONS

HDL.....HDL Engineering Consultants, LLC



1.0 PROJECT DESCRIPTION

Identified in the Matanuska-Susitna Borough's (MSB) 2035 Long Range Transportation Plan (LRTP), adopted December 2017, the goal of the Engstrom Road to Trunk Road Connector project is to reduce congestion on Engstrom Road and provide alternate access to Trunk Road. The project was approved by voters as part of the 2021 Transportation Infrastructure Projects (TIP21).

1.1 Scope of the Report

The purpose of this report is to present the results of a reconnaissance level study for route alternatives for a connector from Engstrom Road to Trunk Road. The study was performed to present the MSB with information to identify and compare two alternatives based on the following:

- Preliminary desktop geotechnical evaluation and preliminary geotechnical recommendations.
- Preliminary Hydrology and Hydraulics (H&H) evaluation for potential creek crossing locations and overall drainage patterns.
- Review of previously completed studies and plans within and around the project area, including:
 - Fishhook Area Collector Roads Traffic Study, 2017
 - Official Streets and Highways Plan (OSHP), adopted November 2022
 - 2035 LRTP, adopted December 2017
- Coordination with the Alaska Department of Transportation and Public Facilities (DOT&PF) on the impacts of the route alternatives to DOT&PF facilities.
- Rough order of magnitude cost estimate.

1.2 Project Location and Description

The MSB's Core Area has experienced continued rapid growth over the last several decades, resulting in an explosion in land development and a corresponding increase in local traffic. The purpose of this project is to evaluate route alternatives for a new road connecting Engstrom Road and Trunk Road. The MSB has asked HDL to evaluate the feasibility and impacts of the two route alternatives along the proposed corridor using collector road classification design criteria.

This proposed development would include right-of-way (ROW) acquisition, existing road upgrades and/or new road construction, intersection improvements, creek crossing(s), utility relocations, and signage and striping.

This project is located in Sections 22, 23, 26, and 27, Township 18 South, Range 1 East, of the Seward Meridian; Latitude 61°37'37.5", Longitude 149°14'15.1". See Figure 1 on the following page for the location and vicinity map.

RECONNAISSANCE ENGINEERING REPORT

ENGSTROM ROAD TO TRUNK ROAD CONNECTOR

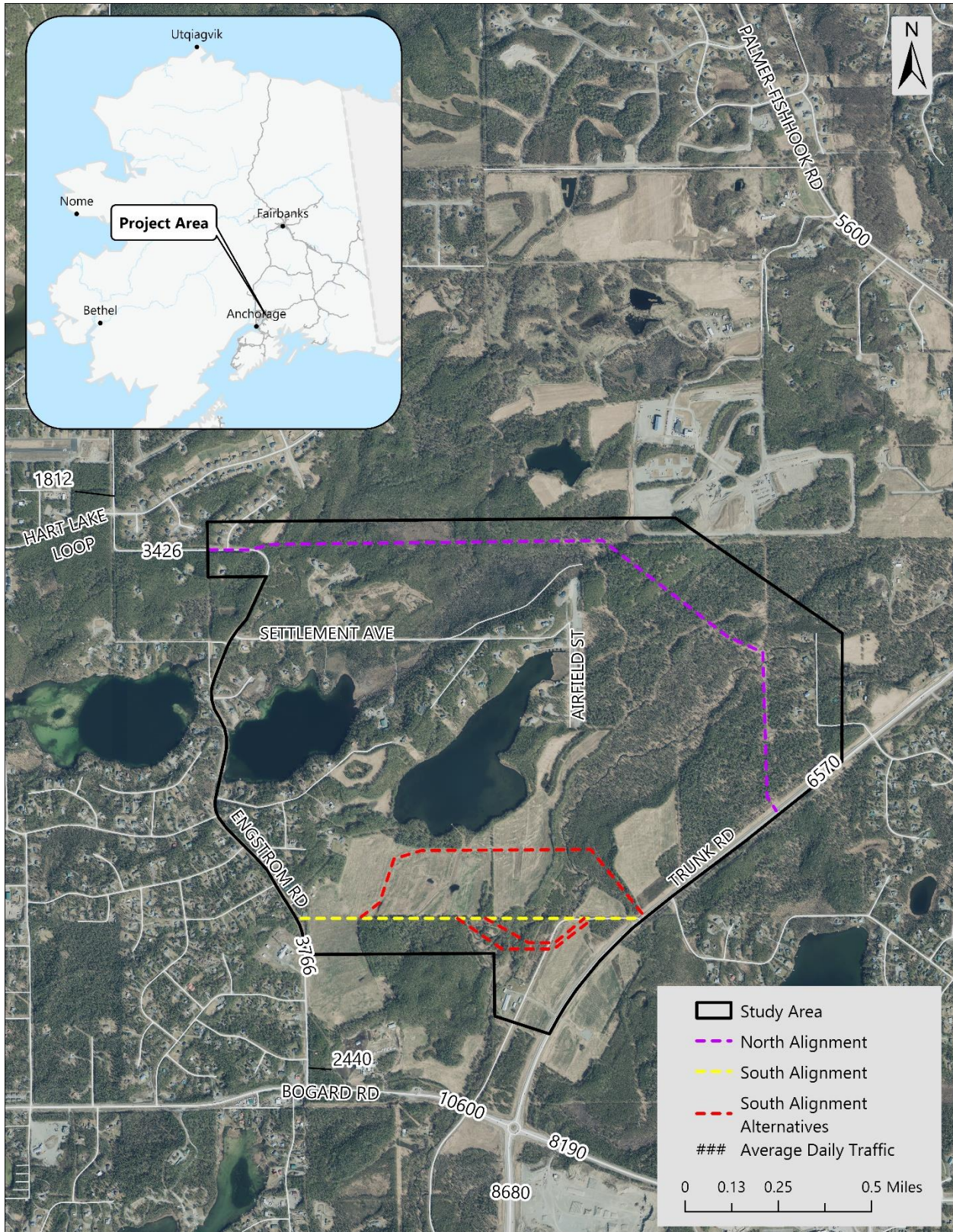


Figure 1 Location and Vicinity Map.

1.3 Existing Facilities and Land Use

There is no current direct connection between Engstrom Road and Trunk Road. Traffic traveling to and from Trunk Road and Engstrom Road must use Bogard Road and enter using the only collector intersection serving the study area. This has resulted in a high concentration of traffic at the Engstrom Road and Bogard Road intersection and notably left turning traffic from Engstrom Road onto Bogard Road that has limited sight distance, a crash rate that is higher than the statewide average for a similar intersection, and is heavily congested.

Adjacent land use largely consists of single-family and multi-family developments with some farms and industrial facilities. Moreover, the study area contains some of the only unsubdivided land in the immediate area; both alternatives pass through portions of unsubdivided land. The potential exists for future development including the extension of City of Palmer water service to the area.

1.4 Purpose and Need

Considerable steady population growth throughout the MSB has occurred over the last several decades, which has increased demand on the poorly connected network of local roads. The MSB's LRTP specifically identified congestion issues along Engstrom Road and a need to reduce congestion and provide an alternate access to Trunk Road and Palmer-Fishhook Road.

The purpose of this project is to improve safety and to increase the capacity of the road network in the Fishhook area by providing an alternate route between Engstrom Road and Trunk Road that has a minimum design life of 20 years.

The need of the project is to improve connectivity and reduce congestion to meet current and future traffic volumes, which are constricted by the Fishhook and North Lakes areas limited Collector level road network.

2.0 DESIGN STANDARDS AND GUIDELINES

Design standards and guidelines that apply to the Engstrom Road to Trunk Road Connector are contained in the following publications.

Standards:

- A Policy on Geometric Design of Highways and Streets (PGDHS), 8th Edition, AASHTO, 2018.
- Roadside Design Guide (RDG), 4th Edition, AASHTO, 2011.
- Alaska Highway Preconstruction Manual (HPCM), DOT&PF, 2022 as amended at the time of design approval.
- Alaska Highway Drainage Manual (AHDM), DOT&PF, 2006.
- 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, DOJ, 2010.
- Highway Capacity Manual (HCM), 5th Edition, TRB, 2010.
- Guidelines for Geometric Design of Very Low-Volume Local Roads ($ADT \leq 400$), AASHTO, 2001.
- Subdivision Construction Manual (SCM), MSB, 2022.

3.0 DESIGN CRITERIA AND TYPICAL SECTION

Design criteria for the roadway corridor has been developed for a Major Collector Road as shown on the MSB's LRTP. The design and posted speed limit have yet to be determined, but for conceptual design purposes, 40 mph has been selected as the design speed. The design criteria used to develop the alternatives can be found in Appendix A.

The typical section for both route alternatives consists of two 11-foot lanes, 6-foot shoulders, 10-foot wide 4H:1V foreslopes, and 3H:1V backslopes. The recommended structural section is summarized below in the Geotechnical Evaluation.

Additional sections may be considered, including retaining walls, as the design progresses, in particular at creek crossing locations.

4.0 ALTERNATIVES

The MSB solicited proposals to design a connector from Engstrom Road to Trunk Road generally in-line with the existing N Old Homestead Road (South Alignment). Subsequently, the MSB has requested evaluation of an alternate route beginning approximately 1-mile to the north on Engstrom Road. The alternatives are described in further detail below.

4.1 No-Build Option

The No-Build option consists of maintaining the existing roadway network. No improvements or new connections would be made under this option. The existing level of service (LOS) would continue and decrease proportional to an increase in traffic volume. It can be anticipated that there would be an increased LOS at the intersection with Bogard Road due to the DOT&PF sponsored HSIP: Bogard Road at Engstrom Road/Green Forest Drive Intersection Improvements project currently in design.

The No-Build option does not satisfy the purpose and need of this project for the following reasons.

- No alternate route between Engstrom Road and Trunk Road. The MSB's LRTP specifically identifies the need for alternate access. This alternate access is needed to provide options for emergency services, detour options in cases of road closures due to weather or construction, and alternate routes to spread the existing and future traffic volumes across the road network.
- No safety improvements. Traffic volumes are expected to continue to increase and an increase in traffic volume beyond the existing design capacity greatly increases the likelihood of crashes and a reduction in safety.
- No congestion relief. Traffic volumes are expected to continue to increase and subsequently LOS decrease if no improvements are made. Providing no alternate route will continue to burden the Engstrom Road-Bogard Road intersection as the only Collector level connection, as well as continue to burden local roads with Collector level traffic volumes when alternate routes are needed.

4.2 South Alignment

The proposed South Alignment begins approximately 0.4-miles north of the Bogard Road-Engstrom Road intersection and extends east, merging into N Old Homestead Road. This is the alignment presented to voters as part of the TIP21. This proposed corridor is approximately 0.9-miles long and

would require construction of a new approach/intersection with Engstrom Road and make use of the existing approach of N Old Homestead Road to Trunk Road. Trunk Road is owned and maintained by DOT&PF and will require coordination with them on the connection.

During the preliminary H&H evaluation, it was determined that this proposed alignment is not ideal for crossing Wasilla Creek. The alternate alignments in red show proposed adjustments to the South Alignment that have more ideal crossing locations over Wasilla Creek. These alternatives are discussed further in the H&H Section.

While this is the alignment presented to voters as part of the TIP21, the close proximity to both the existing Trunk Road-Bogard Road roundabout and the proposed (currently in design) Bogard Road-Engstrom Road roundabout provides limited added benefit in reducing congestion (improving LOS) and increasing connectivity.

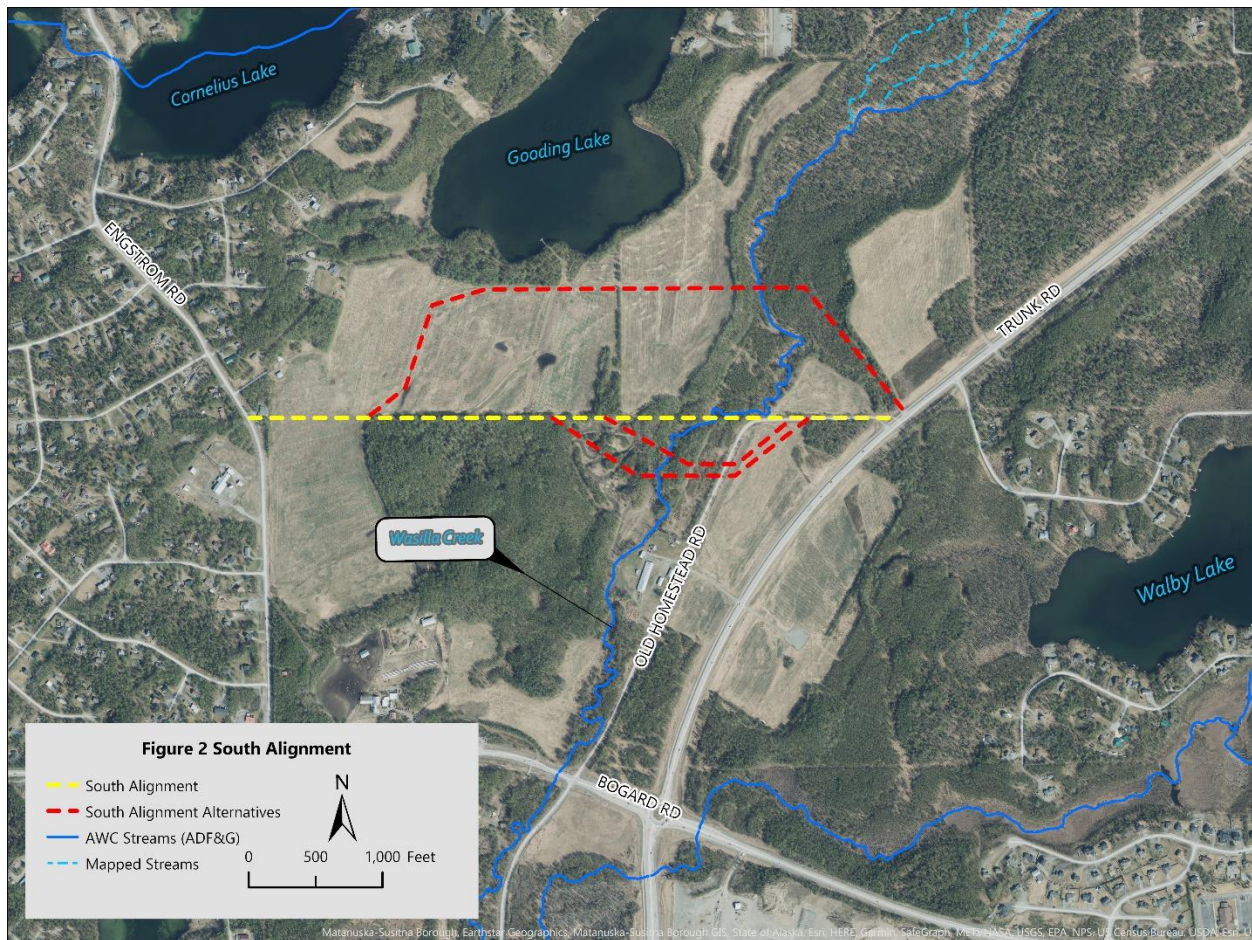


Figure 2: South Alignment

Key attributes of the south alignments are summarized below.

- Less than 1-mile long
- Uses existing approach at Trunk Road
- One anticipated creek crossing
- Less than 0.5-mile separation from Bogard Road roundabouts at Trunk Road and Engstrom Road (proposed)
- Five impacted properties

While this alternative makes use of the existing approach to Trunk Road, improvements would be required to, at minimum, widen the approach to match the assumed typical section and accommodate the existing multi-use pathway along Trunk Road. If this alternative were selected, further analysis would be required to determine the appropriate intersection configuration based on expected traffic volumes and appropriate crossing location of Wasilla Creek.

4.3 North Alignment

The proposed North Alignment begins approximately 1.6-miles north of the Bogard Road-Engstrom Road intersection, extends east along the ¼ Section line of Section 22 to Section 23, then turns southeast and then south where it connects to Trunk Road approximately 0.2-miles southwest of Heaton Road. The proposed corridor is approximately 1.9-miles long and would require a new intersection at both Engstrom Road and Trunk Road. Trunk Road is owned and maintained by DOT&PF and will require coordination with them on the connection and an appropriate intersection configuration. The proposed intersection location with Trunk Road aligns with a proposed future Collector Road north of Walby Lake, identified in the OSHP.

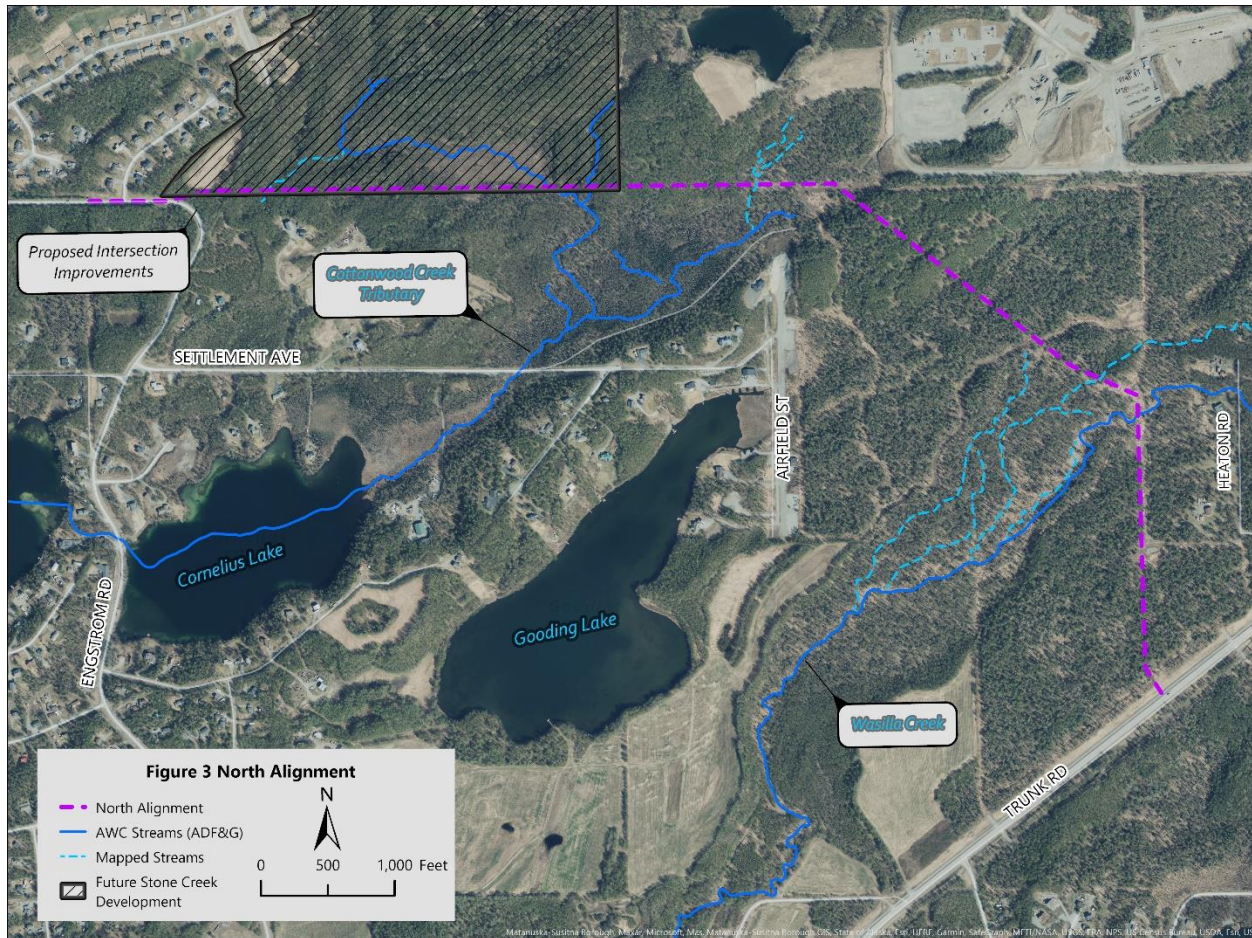


Figure 3: North Alignment

The MSB is currently entertaining an application for the development of the Stone Creek Phase 6 Tract Z residential subdivision, which is the property immediately north of the proposed alignment near the western end and extends approximately 3,200 feet east off of Engstrom Road. This alignment would help reduce traffic congestion at the Engstrom Road-Bogard Road intersection by moving the corridor further north and diverting a substantial amount of traffic to Trunk Road.

Preliminary considerations for converting the 90-degree curve to an intersection include a tee-intersection and a roundabout. Based on traffic data collected by the MSB (2019) on Engstrom Road before and after Hart Lake Loop (see Figure 1), a significant amount of the traffic traveling on Engstrom Road to/from Bogard Road comes from or through the Wolf Lake area. Because of the disconnected road network in the Fishhook Triangle (see OSHP for further discussion), without additional traffic data, the trip origin and destinations are unclear and a preferred intersection configuration cannot be determined at this time. The list below outlines features for each configuration, including making the south leg of a tee-intersection stop controlled. It is assumed that minimal traffic would be making the movement between the south and east legs of the intersection and therefore the configuration making the west leg stop controlled was not considered.

- Roundabout
 - Provides continuous flow for all traffic movements
 - Provides better access control with the addition of the proposed Stone Creek subdivision
- Tee-Intersection (South Leg Stop Controlled)
 - Provides Major Collector level through movement to/from Trunk Road (Arterial)
- Tee-Intersection (East Leg Stop Controlled)
 - Maintains existing traffic movement of north/west and east/south

Key attributes of the north alignment are summarized below

- Approximately 2-miles long
- Proposed intersection with Trunk Road aligns with future Collector Road north of Walby Lake
- Approximately seven anticipated stream crossings
- Greater than 1.5-mile separation from Bogard Road roundabouts at Trunk Road and Engstrom Road (proposed)
- Ten impacted properties
- Reduces future traffic volume increase from Stone Creek Development on Engstrom Road
- Provides alternate Collector level route around annual road closure caused by snow drift south

While this alternative proposes an intersection with Trunk Road that aligns with a future Collector Road north of Walby Lake, the scope of this report is limited and does not include an analysis of anticipated traffic volumes and preferred intersection configuration. If this alternative were selected, further analysis would be required to determine the appropriate intersection configuration based on expected traffic volumes for both the Engstrom Road to Trunk Road Connector and the future [Walby Lake] Collector Road.

5.0 GEOTECHNICAL EVALUATION

HDL reviewed historical geotechnical reports, nearby well logs, topographic data, and aerial imagery along the proposed alignments to provide information regarding the anticipated subsurface

conditions. The results of the desktop evaluation were incorporated into preliminary structural section recommendations.

In general, we anticipate that subsurface conditions along the proposed alignments will largely consist of approximately 1 to 5 feet of silty organic soils underlain by gravel with varying amounts of sand, silt, and cobbles. In general, we anticipate groundwater to be encountered at elevations ranging between Wasilla Creek and the uphill Gooding and Cornelius Lakes. Portions along the alignment that may consist of differing soil conditions are noted in the following sections.

5.1 South Alignment

Several historic well logs located near the proposed Engstrom Road connection indicate gravelly clay and/or hard pan underlies the silty organic soils, which we interpret to be glacial till, and may be encountered as shallow as 5 feet below the existing ground surface (bgs).

5.2 North Alignment

Shallow groundwater and soft organic soils up to 15 feet thick are anticipated in the lowland area approximately 0.3 miles east of the proposed Engstrom Road tie-in.

5.3 Preliminary Geotechnical Recommendations

HDL recommends the proposed alignment be cleared and grubbed prior to the start of construction. If soft or unstable soils or other deleterious materials are encountered during construction, the materials should be removed and replaced with material meeting the DOT&PF Standard Specifications for Highway Construction (SSHHC) requirements for Selected Material, Type B or better. We recommend that the exposed subgrade be proof-rolled to provide a level, firm, uniform surface prior to the placement of fill. If loose soils are encountered additional compaction effort may be required. Excavations should be dewatered and protected from adjacent runoff. Subgrade soils may be difficult to compact due to elevated in-situ moisture contents or if they are exposed to additional rainfall or runoff during excavation.

Fill placed outside of the structural section should be placed in lifts not to exceed 10 to 12 inches loose thickness, and compacted to a density of at least 90 percent of the maximum density as determined by the Modified Proctor compaction procedure (ASTM D1557). During fill placement, cobbles and boulders with dimensions in excess of 2/3 the lift thickness should be removed.

The minimum recommended structural section for the proposed road is as follows:

Table 1: Preliminary Structural Section Recommendations

Minimum Thickness (in.)	Material Type
4	HMA Type II, Class A
4	Base Course Gradation D-1
36	Selected Material, Type A
(As needed to meet grade)	Selected Material, Type B

The HMA Type II, Class A, Base Course Gradation D-1, and Selected Material should meet the requirements presented in the DOT&PF SSHC. The Base Course and Selected Material, Type A should be spread in thin, moisture conditioned layers and compacted to at least 95 percent of the maximum dry density as determined by ASTM D1557. All subgrades and final grades should be rolled to provide smooth, firm, and non-yielding surfaces.

The recommended structural section does not provide full frost protection and seasonal movement of the pavement should be expected; however, the recommended structural section is expected to provide a service life typical for Major Collector roads in the area. The life of the pavement can be increased by increasing the thickness of the structural section. We recommend the road and drainage ditches to be graded to and ditches constructed to carry surface water runoff away from the structural section.

Topography along the proposed alignments suggests several large cuts and fills may be required to achieve proposed grades. We recommend performing site specific geotechnical investigations near areas of large cuts to evaluate subsurface materials for reuse.

At least one bridge or large diameter culvert is anticipated where the proposed alignments cross Wasilla Creek. In addition, there may be additional culverts required to support construction of the proposed alignments. We recommend performing site specific geotechnical investigations near the proposed crossing(s) prior to final design.

6.0 HYDROLOGY AND HYDRAULICS

The Preliminary Hydrology and Hydraulics Overview (Appendix B) provides a summary of the floodplain management and fish passage design considerations within the project study area and outlines agency consultation that may be necessary to support the future development of a road connection between Engstrom Road and Trunk Road.

Both the north and south alignments are considered feasible with regards to fish passage and floodplain management requirements. Up to seven fish passage structures should be anticipated for the north alignment, compared to only one stream crossing for the south alignments. Because the hydraulic impacts to the Special Flood Hazard Area of Wasilla Creek are not anticipated to be significant, floodplain impacts should not be a critical deciding factor in alignment selection.

7.0 ENVIRONMENTAL COMMITMENTS AND CONSIDERATIONS

The Preliminary Environmental Overview (Appendix C) provides a summary of the environmental resources present within the project study area and outlines agency consultation and permitting requirements that may be necessary to support the future development of a road connection between Engstrom Road and Trunk Road. Development of any of the proposed alternatives will impact environmental resources. Table 2 provides a qualitative summary of potential environmental impacts associated with the proposed connection between Engstrom Road and Trunk Road.

Table 2: Preliminary Environmental Resources Present

Environmental Resource	North Alignment	South Alignment	South Alignment Alternative
Air Quality	Compliance with Ordinance 19-032.		
Anadromous Fish Streams and Essential Fish Habitat	Multiple Streams	Wasilla Creek crossing required.	Wasilla Creek crossing required.
Floodplain and Regulatory Floodway	Wasilla Creek floodzone present.		
Cultural Resources	5 properties impacted. Consultation with SHPO required.	6 properties impacted. Consultation with SHPO required.	6 properties impacted. Consultation with SHPO required.
Migratory Birds and Eagles' Nests	Vegetation clearing must occur during the USFWS recommended time period in Southcentral Alaska. Eagle nest survey must be complete prior to construction.		
Navigable Waters	USACE identified Wasilla Creek and the unnamed tributaries of Cottonwood Creek as navigable.	USACE identified Wasilla Creek as navigable.	USACE identified Wasilla Creek as navigable.
Noise	Compliance with MSB Chapter 8.52		
Right-of-Way	4 properties impacts	5 properties impacts	4 properties impacts
Right-of-Way	Multiple acquisitions required.		
Wetlands	Wetlands present.		

Agency consultation will be required for compliance with environmental laws and local ordinances. Permitting requirements for the project could include:

- U.S. Army Corp of Engineers Section 404 Permit
- Alaska Department of Fish & Game Title 16 Fish Habitat Permit

- Alaska Department of Natural Resources (ADNR) consultation with the State Historic Preservation Office
- ADNR Temporary Water Use Permit
- MSB Floodplain Permit

8.0 RIGHT-OF-WAY REQUIREMENTS

The extent of ROW requirements will vary depending on the selected alignment but impacts are significant regardless of the selected route alignment. The North Alignment has the benefit of existing Public Use Easements at the beginning of the route at Engstrom Road and along the ¼ Section line of Section 22. In addition, there are plans to develop Stone Creek Phase 6 Tract Z into a residential subdivision. The current plan is for the proposed subdivision to develop E Basalt Drive along the south property line and connecting to Engstrom Road at the southwest corner of the tract.

9.0 PEDESTRIAN AND BICYCLE FACILITIES

In the 2035 LRTP, the MSB identified transportation goals and developed strategies to reach them. One of the Goal Three: Improve Connectivity strategies presents the recommendation of establishing requirements for providing sidewalks or separated pathways on all MSB Core Area roads with a Major Collector or higher classification. The objective is to expand and connect gaps in the existing expansive multimodal network while concurrently increasing accessibility to transit facilities and improving pedestrian safety.

As a proposed Major Collector, it is considered advantageous and consistent with the MSB's transportation goals to provide pedestrian and bicycle facilities along the proposed corridor. In consideration of the corridor passing through a rural area, limited access by public and private approaches, and the existing separated pathway along Trunk Road, it is recommended to include a separated pathway as part of the proposed road footprint. For consistency with current and recent improvement projects, such as the Bogard Road Extension and Seldon Road Extension Phase 1 and 2, a 10-foot paved separated pathway is included as part of the planning level cost estimate below.

10.0 UTILITY RELOCATION AND COORDINATION

Utility impacts were not analyzed as part of this study, but it is anticipated that some utility relocations may be required, particularly near the proposed intersections with Engstrom Road and Trunk Road. Utility companies with facilities in the project limits may include Matanuska Telephone Association, Matanuska Electric Association, Enstar Natural Gas Company, GCI, and Alaska Communications Services.

11.0 COST ESTIMATE

A planning level cost estimate has been prepared for each alternative and are summarized as follows:

11.1 South Alignment

	Wasilla Creek Crossing Type	
	Bridge	Culvert
Engineering Design	\$ 738,000	\$ 613,000
Right-of-Way Acquisition	\$ 610,000	\$ 610,000
Utility Relocation	\$ 100,000	\$ 100,000
Construction		
Roadway	\$ 5,779,000	\$ 5,779,000
Wasilla Creek Crossing	\$ 1,600,000	\$ 350,000
Construction Total	\$ 7,379,000	\$ 6,129,000
Construction Administration	\$ 1,107,000	\$ 920,000
Total	\$ 9,934,000	\$ 8,372,000

11.2 North Alignment

	Wasilla Creek Crossing Type	
	Bridge	Culvert
Engineering Design	\$ 1,585,000	\$ 1,460,000
Right-of-Way Acquisition	\$ 768,000	\$ 768,000
Utility Relocation	\$ 100,000	\$ 100,000
Construction		
Roadway	\$ 13,022,000	\$ 13,022,000
Wasilla Creek Crossing	\$ 1,600,000	\$ 350,000
Cottonwood Creek/Other Crossings	\$ 1,225,000	\$ 1,225,000
Construction Total	\$ 15,847,000	\$ 14,597,000
Construction Administration	\$ 2,378,000	\$ 2,190,000
Total	\$ 20,678,000	\$ 19,115,000

11.3 Trunk Road Intersection

The scope of this report is limited and further analysis is required to determine an appropriate intersection configuration at Trunk Road. Possible configurations and planning level cost for each are listed below. These costs should be added to the alignment costs listed in the above sections.

Intersection Configuration	*Additional Cost
Basic Stop Controlled – no alterations to Trunk Road	\$100,000
Basic Stop Controlled – widening of Trunk Road for left turn lanes	\$1,000,000
Roundabout	\$12,000,000
Signalized Intersection	\$10,000,000

*Additional costs are based on recent projects with similar scope; detailed analysis was not performed.

12.0 EXCEPTIONS TO DESIGN STANDARDS

There are no current exceptions to design standards for this project.

13.0 OTHER CONSIDERATIONS

13.1 Wind and Snow Drift

The majority of the Mat-Su Valley is impacted by strong winds throughout the year, especially in the Palmer area. The proposed project area is known for its windy conditions and snowdrifts, and there are known drifting issues near both proposed Engstrom Road intersections. Operations and Maintenance staff combat drifted snow piles that often close Engstrom Road at the curve south of Glade Court (beginning of the proposed south alignments) and the section near Cornelius Lake. It will be important to design this corridor to avoid snow drifting over the roadway.

13.2 DOT&PF Facilities

DOT&PF, in cooperation with the Federal Highway Administration (FHWA), is in the design phase of a proposed single lane roundabout at the intersection of Bogard Road with Engstrom Road and Green Forest Drive. The project is being developed and funded through the Highway Safety Improvement Program (HSIP), which specifically targets reducing fatalities and severe injury crashes on Alaska's roadways. The purpose of the HSIP: Bogard Road to Engstrom Road/Green Forest Drive Intersection Improvements project is to improve safety at the intersections of Green Forest Drive and Engstrom Road with Bogard Road. The accident rate for these intersections exceeds the statewide average for similar intersections. These two existing intersections are within 200 feet of each other, which creates overlapping influence areas that potentially increase the accident rate.

While the intersection improvements addresses both safety (crashes) and congestion, and it is included in the 2035 LRTP, alone it does not address the MSB's goal of improve connectivity. Alternate Collector level routes are still needed to provide access to and from subdivisions in the Fishhook triangle. As discussed earlier, Engstrom Road is consistently, albeit briefly, closed in the winter due to high winds and drifted snow; the intersection improvements with Bogard Road provide no solution for traffic in this situation.

Comments provided by DOT&PF staff concur that alternate access would provide more than just congestion relief and safety improvements along Engstrom Road by balancing the traffic volume load across Collector roads. An alternate Collector level road would provide additional route options for emergency services, school buses, detours for construction or emergencies (such as winter weather closures), and reducing volumes along residential roads that have previously been used as Collector level roads. Further, DOT&PF staff indicated the south alignment would not be a prudent option given its close proximity to Bogard Road.

APPENDIX A
Design Criteria

PROJECT DESIGN CRITERIA
 Reconnaissance Engineering Report
Engstrom Road to Trunk Road Connector

ELEMENT	VALUE	SOURCE
Construction Classification	New Connection	MSB
Design Functional Classification	Major Collector	MSB 2035 Long Range Transportation Plan
Design Year	2043	Assumed
AADT	2500	Assumed
Design Hourly Volume (DHV)		
Peak Hour Factor (PHF)		
Directional Split (%D)		
Commercial (%CV) / RV's (%RV)		
Equiv. Single Axle Load (ESAL)		
Pavement Design Year		
Design Vehicle	AASHTO WB-65	MSB
Design Speed, Terrain	40 mph, Rolling	MSB
Stopping Sight Distance (SSD)	305 ft (on level roadways)	PGDHS 2018, Table 3-1
Passing Sight Distance (PSD)	600 ft	PGDHS 2018, Table 3-4
Maximum Allowable Grade	8.0%	PGDHS 2018, Table 6-2
Minimum Allowable Grade	0.5%	PGDHS 2018, pg. 3-130
Minimum Radius of Curvature	762 ft	PGDHS 2018, Table 3-13
Minimum K-Value for Vertical Curves	Crest:44 (SSD), 129 (PSD) Sag: 64	PGDHS 2018, Table 6-3 PGDHS 2018, Table 6-3
Number of Roadways	1 roadway – 2 travel lanes	MSB
Width of Traveled Way	11.0 ft per lane	PGDHS 2018, Table 6-5
Width of Shoulder	6.0 ft	PGDHS 2018, Table 6-5
Surface Treatment	Hot Mix Asphalt	MSB
Side Slope Ratios	Cut - Fore: 4H:1V; Back: 3H:1V Fill - Fore: 4H:1V; Back: 3H:1V	RDG, pg. 3-4
Clear Zone	16 ft for 4H:1V Foreslope	RDG Table 3-1
Degree of Access Control	Limited	Assumed
Median Treatment	None	Assumed
Illumination:	None	Assumed
Curb Usage and Type	None	Assumed
Bicycle Provisions	10 ft Multiuse Pathway	MSB
Pedestrian Provisions	10 ft Multiuse Pathway	MSB

Proposed By:  5/2/23
 Engineer Date

Recommended By: _____
 MSB Project Manager Date

Accepted By: _____
 MSB Public Works Director Date

APPENDIX B
Preliminary H&H Overview

MEMORANDUM

Date: February 1, 2023

To: Cole Branham, PE
Matanuska-Susitna Borough

From: Kyle Albert, PE, CFM

Subject: Preliminary H&H Overview
Engstrom to Trunk Road Connector

Civil
Engineering

Geotechnical
Engineering

Transportation
Engineering

Aviation
Engineering

W/WW
Engineering

Environmental
Services

Surveying &
Mapping

Construction
Administration

Material
Testing

Executive Summary

The Matanuska-Susitna Borough (MSB) is proposing to improve connectivity between Engstrom Road and Trunk Road. This Preliminary Hydrology and Hydraulics (H&H) Overview provides a summary of the floodplain management and fish passage design considerations within the project study area and outlines agency consultation that may be necessary to support the future development of a road connection between Engstrom Road and Trunk Road.

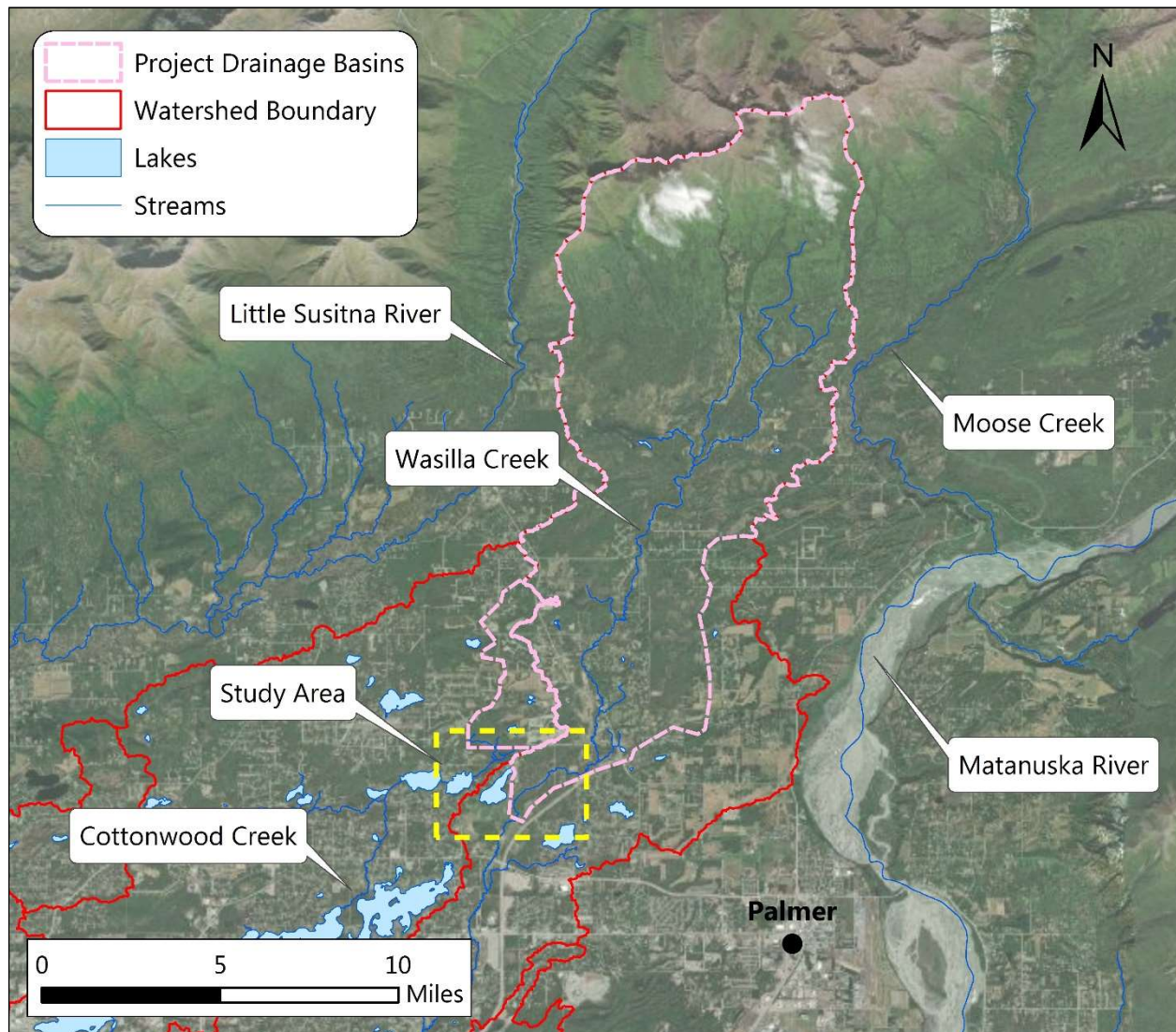
Hydrology

The study area is located in the MSB approximately 4 miles west of Palmer. The south roadway alignments are wholly within the Wasilla Creek watershed, and a portion of the north alignment crosses into the upper fringes of the Cottonwood Creek watershed. A vicinity map of the study area and drainage basins is shown in Figure 1.

The upstream drainage areas of Wasilla Creek and Cottonwood Creek are approximately 25 and 1.5 square miles, respectively. Wasilla Creek crosses both the north and south alignments, and has an ordinary high water (OHW) width of 20 to 30 feet in the study area. The 100-year flood discharge of Wasilla Creek is 1006 cfs, according to the current FEMA Flood Insurance Study (FIS) for the MSB. A preliminary regression analysis found that the maximum 100-year flood discharge of any stream crossing in the Cottonwood Creek watershed is 111 cfs.

Engstrom to Trunk Road Connector
February 1, 2023

Figure 1. Vicinity Map



Floodplains

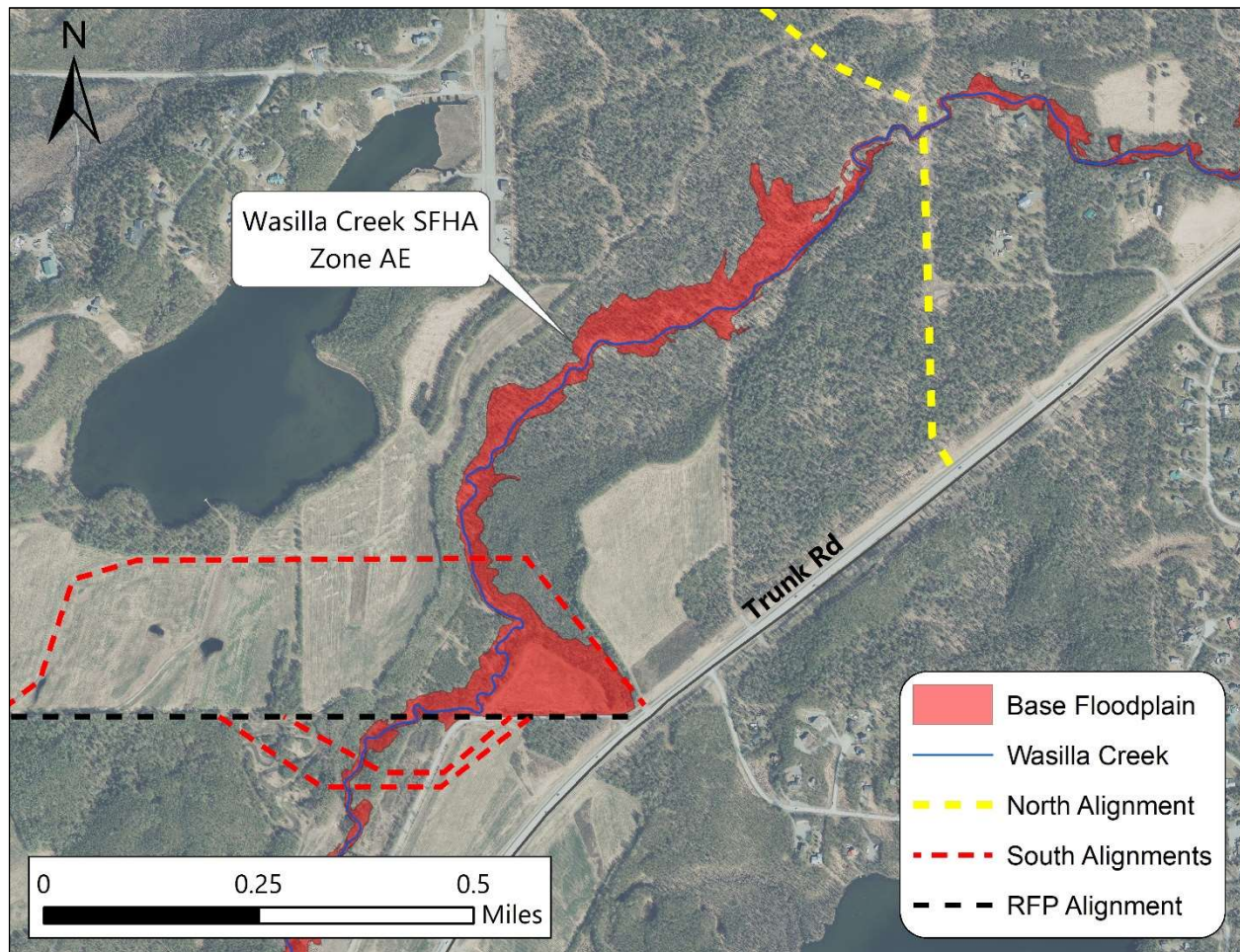
Wasilla Creek was included in the FEMA Flood Insurance Study (FIS) for the MSB, current as of September 27, 2019. The FIS defines the limits of the Special Flood Hazard Area (SFHA) of Wasilla Creek. The SFHA is defined by FEMA as:

“The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.” (FEMA FIS 02170CV001B)

*Engstrom to Trunk Road Connector
February 1, 2023*

From 0.3 miles upstream of N. Palmer-Fishhook Road to E. Nelson Road downstream, the SFHA of Wasilla Creek is categorized as Zone AE, which is a 100-year flood zone for which base flood elevations have been determined. A regulatory floodway has not been determined for this SFHA. The north and south alignment crossing locations are shown in Figure 2.

Figure 2. Wasilla Creek SFHA



MSB is a participant in the National Flood Insurance Program (NFIP). In exchange for making flood insurance available, the federal government requires local communities to enforce floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in SFHAs.

MSB's floodplain management regulations are described in Chapter 17 of MSB Code. As stated in MSB Code 17.29.100, a Floodplain Development Permit must be acquired before any construction or development begins in a SFHA, which includes dredging, filling, grading, paving, or excavation operations. Therefore, this project will require preparation of a Floodplain Development Permit application.

*Engstrom to Trunk Road Connector
February 1, 2023*

In circumstances where development is planned for areas of SFHAs that are defined as regulatory floodways, MSB Code prohibits development unless:

"...certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge." (MSB 17.29.180)

Since a regulatory floodway is not defined in the Zone AE SFHA impacted by this project, H&H analysis and "no-rise" certification is not required.

If the project improvements will alter the base flood elevations and SFHA limits of Wasilla Creek, MSB is responsible for requesting from FEMA a Conditional Letter of Map Revision (CLOMR) in the project planning stage, and a Letter of Map Revision (LOMR) following construction. This ensures that FEMA can update the Flood Insurance Rate Maps (FIRMs) accordingly. Therefore, an H&H analysis may still be required in support of CLOMR or LOMR requests.

As this project pertains to MSB's participation in the NFIP, selection of the preferred roadway alignment should seek to mitigate impacts to the Wasilla Creek SFHA by limiting encroachment of the base floodplain. This may be achieved by identifying locations where the floodplain is naturally constricted and/or designing culverts and bridges to have surplus hydraulic capacity.

Figure 2 illustrates why the preliminary alignment described in the Request For Proposal (RFP) is poorly suited for the floodplain. Because Wasilla Creek flows approximately parallel, significant stream realignment and channel improvements would be required to accommodate construction of the roadway and stream crossing.

The north alignment is the preferred alternative for limiting floodplain impacts, since it crosses the Wasilla Creek SFHA where it is most constricted. However, this does not exclude the south alignments from consideration. According to the MSB Parcel Viewer there are no structures located in the immediate vicinity of the south alignment crossings as of 2022. Therefore, any relative increase in the base flood elevation upstream of the south alignments is not anticipated to result in adverse impacts to surrounding properties.

Fish Passage

Roadway improvements performed under this project will require one or more crossings of streams that are categorized as anadromous water bodies by the Alaska Department of Fish and Game (ADF&G). ADF&G has regulatory responsibility for protection of freshwater anadromous fish habitat and a Title 16 Fish Habitat Permit will be required for all anadromous stream crossings.

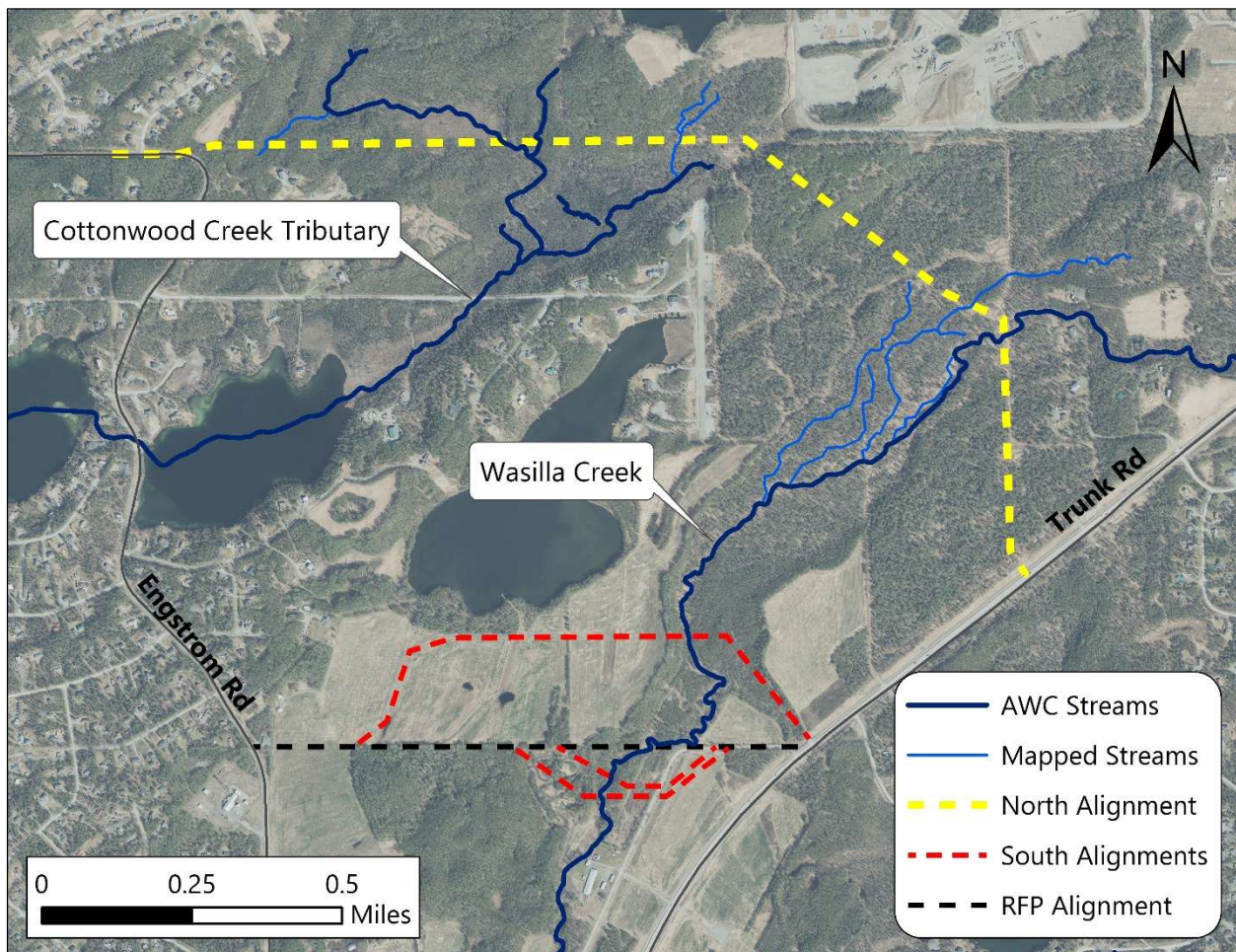
Since this project involves new roadway construction with impacts to previously undisturbed fish habitat, it should be anticipated that, at a minimum, proposed anadromous stream crossings comply with Tier 1

Engstrom to Trunk Road Connector
 February 1, 2023

fish passage design criteria outlined in the *Memorandum of Agreement between ADF&G and Alaska Department of Transportation and Public Facilities for the Design, Permitting, and Construction of Culverts for Fish Passage* (MOA 2001). Tier 1 design involves methods of Stream Simulation, where natural stream conditions are replicated inside the culvert. Culverts are sized to span no less than 90% of the ordinary high water (OHW) width of the natural stream channel and are embedded in streambed material. Furthermore, the MSB Subdivision Construction Manual (SCM) requires that culvert crossings of fish-bearing streams be designed with Stream Simulation methods.

Review of the ADF&G Anadromous Waters Catalog (AWC) indicated the presence of anadromous fish streams within the study area, including Wasilla Creek and multiple tributaries of Cottonwood Creek (ADF&G 2022). Wasilla Creek provides spawning and rearing habitat for chum, coho, and king salmon, and sockeye salmon have been observed. Cottonwood Creek provides spawning and rearing habitat for coho salmon.

Figure 3. Anadromous stream crossings



*Engstrom to Trunk Road Connector
February 1, 2023*

Future consultation with ADF&G and field investigations may reveal that additional anadromous streams are present in the study area. Uncatalogued streams may be determined to be anadromous if they are found to be hydraulically connected to AWC streams. For this Preliminary H&H Overview, a watershed analysis was performed with ArcGIS to map flow paths having high potential for anadromous designation. Locations of anadromous streams in relation to the roadway alignment alternatives are shown in Figure 3.

Anadromous streams that are listed in the AWC are shown as thick navy lines. This spatial data was obtained directly from ADF&G and is current for 2022. Thinner blue lines represent the tributary streams that were generated from the watershed analysis, and verified by visual inspection of aerial imagery.

Mapping of anadromous streams in the study area indicates that the south alignment alternatives would include one major anadromous stream crossing at the main channel of Wasilla Creek. Based on channel widths measured from aerial imagery, it should be anticipated that either a bridge or a 20-foot span pipe arch culvert will be required for the stream crossing.

The north alignment would involve a substantially greater fish passage design scope. This alternative would include a minimum of 4 anadromous stream crossings, and potentially as many as 7 crossings. A bridge or large-span pipe arch culvert will be required for the Wasilla Creek crossing.

Conclusion

Based on the findings of this desktop H&H investigation, both the north and south alignments are considered feasible with regards to fish passage and floodplain management requirements. Up to 7 fish passage structures should be anticipated for the north alignment, compared to only one stream crossing for the south alignments. The south alignments have a clearly defined fish passage design scope and lower habitat impact. As fish passage culverts require considerably greater effort for analysis, design, and construction than conventional hydraulically designed culverts, the north alignment will have a significantly greater design and construction cost compared with the south alignments.

Because a "no-rise" certification is not required for this project, route selection is flexible with regards to compliance with floodplain management regulations. Although the north alignment minimizes impacts to the base floodplain, the south alignments' hydraulic impact to the Wasilla Creek SFHA is not anticipated to be significant, and should not be a critical deciding factor.

Engstrom to Trunk Road Connector
February 1, 2023

Sincerely,
HDL Engineering Consultants, LLC

Kyle Albert

Kyle Albert, PE, CFM
Hydrology & Hydraulics Group Leader
e: KAlbert@HDLalaska.com | o: 907.564.2158 | c: 907.229.7020

APPENDIX C
Preliminary Environmental Overview

Preliminary Environmental Overview

Engstrom Road to Trunk Road Corridor

Proposed Project

The Matanuska-Susitna Borough is proposing to improve connectivity between Engstrom Road and Trunk Road. This Preliminary Environmental Overview provides a summary of the environmental resources present with the project study area and outlines agency consultation and permitting requirements that may be necessary to support the future development of a road connection between Engstrom Road and Trunk Road. The study area is located in Section 22, 23, 26, and 27 of Township 18N, Range 1W, of the Seward Meridian, and on U.S. Geological Survey Quadrangle Anchorage C-6 & C-7; and Latitude 61.628655° North, Longitude 149.233243° West (study area center) (Figures 1 & 2).

Air Quality

Pursuant to the Clean Air Act, the U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six “criteria” air pollutants: carbon monoxide (CO); lead (Pb); nitrogen dioxide (NO₂); ozone (O₃); particulate matter (PM) for both PM₁₀ and PM_{2.5}; and sulfur dioxide (SO₂). The State of Alaska has designated areas that are in attainment (areas that meet the NAAQS), nonattainment (areas where concentration of one or more of the criteria air pollutants is higher than the NAAQS), or maintenance (an area previously designated as nonattainment and re-designated as a maintenance area because of an improvement in air quality) for each of the criteria pollutants.

Review of the Alaska Department of Environmental Conservation (ADEC) Air Non-Point Mobile Sources and the EPA Non-Attainment Areas for Criteria Pollutants (Green Book) websites indicate that the Matanuska-Susitna Valley is designated as a nonattainment area for particulate matter (PM_{2.5} and PM₁₀) (ADEC 2022). In March 2019, the MSB approved Ordinance 19-032, to minimize health impacts and possible federal regulatory issues from exceeding national air quality standards for fine particulate matter (PM_{2.5}). Ordinance 19-032 implements an air quality management plan and identifies the Greater Butte Area Air Quality District (Butte Community Council Boundaries) as the area that consistently exceeds the NAAQS for PM_{2.5}.

The proposed project is within an area susceptible to windblown dust events. Construction of a new road alignment will temporarily increase airborne dust. Consultation with the MSB Code Compliance Office prior to construction is encouraged to ensure that appropriate best management practices are incorporated into the project throughout construction to reduce localized impacts to air quality.

Anadromous Fish Streams and Essential Fish Habitat

Review of the Alaska Department of Fish and Game (ADF&G) Atlas to the Catalog of Waters Important to the Spawning, Rearing or Migration of Anadromous Fishes indicated the presence of anadromous fish streams and waterbodies within the study area, including Wasilla Creek, five unnamed anadromous tributaries of Cottonwood Creek (ADF&G 2022), and Cornelius Lake:

- Wasilla Creek (Anadromous Waters Catalog [AWC] code 247-50-10260-2019)
 - Spawning and rearing habitat for Chum (*Oncorhynchus Keta*), Coho (*O. kisutch*), King (*O. tshawytscha*) salmon
 - Presence of Sockeye salmon (*O. Nerka*) (ADF&G 2022)
- Five Unnamed Tributaries of Cottonwood Creek (AWCs 247-50-10300-2054, 247-50-10300-2054-3039, 247-50-10300-2054-3041, 247-50-10300-2054-3041-4040, 247-50-10300-2054-3047)
 - All five of these tributaries support the presence, spawning, and/or rearing habitat for Coho salmon (*O. kisutch*)
 - The presence of Sockeye salmon (*O. Nerka*) is also noted in the main unnamed stream (AWC 247-50-10300-2054) that connects all these tributaries and discharges into Cornelius Lake.
- Cornelius Lake (AWC 247-50-10300-2054-0030)
 - Spawning and rearing habitat for Coho (*O. kisutch*) and Sockeye (*O. Nerka*) salmon

The ADF&G has regulatory responsibility for protection of freshwater anadromous fish habitat. Consultation with ADF&G early in the development of the project will be necessary for the design of any alignment crossing an anadromous waterbody. A Title 16 Fish Habitat Permit will be required for crossing anadromous waters to ensure the design minimizes impacts to anadromous species. Construction project which involve potential impacts to anadromous waters are required to be conducted during the fish window (May 15 to July 15) to minimize potential impacts to fish species.

Floodplain and Regulatory Floodway

Review of the Federal Emergency Management Agency (FEMA) flood maps indicate that floodplains exist in the study area and are associated with Wasilla Creek. The project is located on FEMA flood insurance rate maps 02170C7245E, 02170C8110F, 02170C7265F, and 02170C8130F. Wasilla Creek shown on the latter two map panels, is designated as Zone AE and has defined base flood elevations (FEMA 2022).

A hydraulic and hydrologic study will be completed once a preferred alignment is selected.

Hazardous Waste

A search of ADEC's Contaminated Sites Program database did not identify any known contaminated sites within the study area or within the immediate vicinity (within 0.10-mile). Consultation with ADEC is recommended, should the project encounter an area within the study area that presents recognized environmental conditions that warrant concern regarding environmental contamination.

Historic Properties, Archaeological and Cultural Resources

In accordance with Alaska's State Historic Preservation Act, the MSB will be required to consult with the Alaska Department of Natural Resources, Office of History and Archaeology regarding potential impacts to cultural and historic resources. The MSB will be required to develop an Area of Potential Effect associated with the proposed development of a connector alignment and coordinate with consulting parties (including Certified Local Governments, Tribes, and other interested parties) regarding knowledge of past uses of the area that could be culturally significant.

Northern Land Use Research Alaska, LLC researched the Alaska Department of Natural Resources (ADNR) Alaska Heritage Resource Survey Integrated Business Suite (AHRIS IBS) online database on October 19, 2022, to ascertain the presence of cultural and historic resources within or adjacent to the proposed project area.

The AHRIS IBS identified eleven sites within the Cultural Resource Study Area buffer. Four of those sites are within or partially overlapping the preliminary Area of Potential Effect (APE). NLURA also reviewed the MSB tax/property information which indicates there are a total of 105 parcels located within the Cultural Resource Study Area buffer. Of those, 7 have the potential to contain historic buildings/structures (or historic building/structure remains and associated features or artifacts) which may be directly or indirectly (visually) impacted by the proposed project (Figure 1).

Based on the information presented in NLURA's desktop assessment, NLURA recommends the following cultural resources investigations be completed for the proposed project:

- Conduct a Cultural Resource Phase I/II survey along the routes within the final APE.
- Conduct a condition assessment of the AHRIS sites to identify the site boundary of the historic property and its essential physical features (i.e. structures, features, artifacts, etc.) relative to the final APE and reassess its NRHP eligibility status.

Due to the sensitive nature of cultural resources, a copy of NLURA's Cultural Resources Desktop Analysis Report was provided to the MSB as a separate attachment.

Invasive Species

Review of the University of Alaska Anchorage Exotic Plants Information Clearinghouse Invasive Plants Mapper indicated there are no non-native species infestations within the study area. However, non-native species infestations have been identified in the vicinity of the study area. The project is anticipated to involve vegetation loss in association with proposed construction of a connector road. Executive Order 13112 (Invasive Species) requires the MSB to ensure that ground disturbing activities are minimized to the extent practicable, and disturbed areas are re-vegetated with seed recommended for the region by ADNR's A Revegetation Manual for Alaska.

Migratory Birds and Eagles' Nests

Several migratory bird species travel through the proposed project area and may be disturbed by vegetation clearing operations and displaced by the loss of habitat. Birds are most sensitive during breeding and nesting, when vegetation clearing, ground disturbance, and other site construction activities can destroy active bird nests, eggs, or nestlings. The most effective way to protect nesting birds is to conduct these activities before or after the breeding season. Vegetation clearing associated with the project is expected to follow United States Fish and Wildlife Service (USFWS) recommended time periods for avoiding clearing in Southcentral Alaska, except as allowed by state, federal, and local laws, and as approved by the Project Engineer (USFWS 2022 & 2022a) are listed below:

- Forest/Woodland: May 1st- July 15th (*a, b, c)
- Shrub/Open: May 1st- July 15th(*a, b, c)
- Seabird Colonies: May 10th – September 15
- Eagles March 1st – August 31st (*e)

- (*a) Raptors may nest 2+ months earlier than other birds
- (*b) Canada geese and swans begin nesting April 20
- (*c) Black scoter are known to nest through August 10
- (*e) Eagles and eagle nests have additional protections under the Bald and Golden Eagle Protection Act, and a permit maybe required to conduct activities near an eagle nest.

Suitable eagle nesting habitat exists in the general project vicinity. Prior to construction, an eagle's nest survey will be completed to identify whether eagles or eagle nests are sighted within 660 feet of proposed project development. If eagles or eagle nests are present consultation with the USFWS on how to proceed with the project will be required (USFWS 2022b).

Navigable Waters

Various state and federal agencies define and determine navigability of water in the study area. State and federal determinations may differ, and sometimes conflict. The USACE defines navigable waters of the U.S., Code of Federal Regulations 33 CFR 329, as those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce while the waterway is in its ordinary condition (USACE 2022). Section 10 of the Rivers and Harbors Act of 1899 (33. U.S.C. 403) prohibits the unauthorized obstruction of a navigable water of the U.S.

The Clean Water Act (CWA) also uses the terms "navigable waters," "waters of the U.S.," and "navigability" to define its applicability. Waters of the U.S. include not only navigable waters, but also waters with "a significant connection to navigable waters" (USACE & EPA 2015). Wasilla Creek as well as the unnamed tributaries within the study area discharge directly into the Knik Arm of the Cook Inlet, a navigable waterbody.

The U. S. Coast Guard (USCG) has permit authority for navigable waters of the U.S., as defined in 33 CFR 329. Under Section 9 of the Rivers and Harbors Act of 1899, a USCG Bridge Permit would be required to construct any bridge or causeway over any navigable river or navigable water of the U.S. USCG's a list of waters, last updated in March 2012, indicates that navigable waters under USCG jurisdiction for navigability are not present in the project area.

The Alaska Department of Natural Resources defines navigable waters as water that at the time the state achieved statehood, was used, or was used, or was susceptible of being used, in its ordinary condition as a highway for commerce over which trade and travel were or could have been conducted in the customary modes of trade and travel on water, the use or potential use does not need to have been without difficulty, extensive, or long and continuous (Alaska Statute [AS] 38.04.062(g)(1)). For those waters identified as navigable by the State of Alaska, a person may not obstruct or interfere with the free passage or use by a person of any navigable water unless the obstruction or interference is (AS 38.05.128):

- Authorized by a federal or state agency
- Authorized under a federal or state law or permit
- Exempt under 33 U.S.C. 1344(f) (Clean Water Act)
- Caused by normal operation of freight barging that is otherwise consistent with law
- Authorized by the commissioner after reasonable public notice

Review of ADNR's Navigable Waters mapper did not identify Wasilla Creek or the other unnamed tributaries within the study area as navigable waterways. After selection of a preferred connector alignment the MSB will be required to consult with USACE regarding potential impacts, mitigation, and permitting for proposed crossing of waterbodies within the study area. The MSB may also be required to consult with the USCG and ADNR regarding any additional navigability determinations in the project area.

Noise

The State of Alaska has a Noise Policy that applies to all Federal or Federal Aid Highway Projects authorized under Title 23, U.S.C. that applies to highway and multimodal projects that:
Requires Federal Highway Administration approval regardless of funding sources, or
Is funded with Federal Aid highway funds. This includes Federal or Federal-aid projects that are administered by Local Public Agencies as well as Alaska Department of Transportation and Public Facilities. The MSB will be required to examine the funding source for construction of the proposed Engstrom Road to Trunk Road Connector and determine if the State of Alaska Noise Policy is applicable to the project. Should the project require a noise analysis an evaluation of traffic noise impacts to residents and businesses in the area of the proposed road alignment will be required.

The MSB has a noise ordinance that prohibits amplified sounds louder than 50 decibels between 10 p.m. and 7 a.m. weeknights and 60 decibels all other times. Should construction activity be necessary prior to 7 a.m. and after 10 p.m. a noise permit from the MSB may be required for the project.

Right-of-Way

Review of the MSB's tax parcel viewer identified many private properties within the study area. The MSB will have to acquire additional right-of-way property in order to construct a new road connection between Engstrom Road and Trunk Road (MSB 2022).

State Parks, National Parks, National Forests, Wild and Scenic Rivers

A review of the National Park Service (NPS) and U.S. Forest Service (USFS) indicate there are no national parks, monuments, preserves, national forests, or wild and scenic rivers are located within or adjacent to the proposed project area (NPS 2022, USFS 2022).

A review of ADNR's Division of Parks and Outdoor Recreation website indicates no state parks or recreation areas are located in or adjacent to the study area. Finger Lake State Recreation Site is located approximately 0.35 miles southwest of the study area (ADNR 2022).

State Refuges, National Wildlife Refuges, Critical Habitat Areas and Sanctuaries

According to the ADF&G online listing of State of Alaska Refuges, Critical Habitat Areas, and Sanctuaries (2022a) and the USFWS National Wildlife Refuge System (2022c) webpages there are no state refuges, sanctuaries, or national wildlife refuges are present within or in the vicinity of the project study area.

Threatened and Endangered Species

The USFWS' Information for Planning and Consultation (IPaC) website (2022a) and the ADF&G threatened and endangered species website (2022b) were reviewed to determine if any threatened or

endangered species or their habitats are located within or adjacent to the proposed project. Both websites indicated that there are no threatened or endangered species or their critical habitats within the vicinity of the study area.

Water Quality

Majority of the study area is comprised of a mixture of land use including agriculture, residential, and businesses. Land within the study area consists of developed and undeveloped areas. The project is located within the Matanuska watershed, which ultimately drains to the Knik Arm of Cook Inlet. Per Alaska's Final 2018 Integrated Water Quality Monitoring and Assessment Report (approved June 2020), does not identify 303-listed waterbodies in the vicinity of the project (ADEC 2022b).

An ADEC Alaska Pollution Discharge Elimination System approved SWPPP will be required for the project.

Wetlands and Other Waters of the U.S.

A review of the MSB Wetlands mapper (2022a), the Cook Inlet Wetlands (Gracz n.d.), and the National Wetlands Inventory (NWI) (2022) databases identify several wetland complexes within and immediately adjacent to the proposed project area. A wetland delineation will be necessary to ground truth identified wetland boundaries, inform design to support avoidance and minimization of impacts to wetlands, and to evaluate impacts where necessary. Should the project involve dredge and/or fill within wetlands and/or waters of the U.S. authorization under USACE Section 404 permit and ADEC Section 401 will be required.

References

- ADEC. 2022. Air Pollution in Alaska Communities. Accessed September 30, 2022.
<https://dec.alaska.gov/air/anpms/communities/>.
- ADEC. 2022a. Alaska DEC Contaminated Sites. Accessed September 16, 2022.
<https://www.arcgis.com/apps/mapviewer/index.html?webmap=315240bfbaf84aa0b8272ad1cef3cad3>.
- ADEC. 2022b. Integrated Water Quality Monitoring and Assessment Report. Accessed September 22, 2022. <https://dec.alaska.gov/water/water-quality/integrated-report/>.
- ADF&G. 2022. Anadromous Waters Catalog. Accessed September 30, 2022.
<https://www.adfg.alaska.gov/sf/SARR/AWC/index.cfm?ADFG=main.interactive>.
- ADF&G. 2022a. Refuges, Sanctuaries, Critical Habitat Areas & Wildlife Ranges. October 11, 2022.
<https://www.adfg.alaska.gov/index.cfm?adfg=conservationareas.locator>.
- ADF&G. 2022b. Threatened, Endangered, and Diversity Program. September 21, 2022.
<https://www.adfg.alaska.gov/index.cfm?adfg=wildlifediversity.main>.
- ADNR. 2022. Division of Parks & Outdoor Recreation. Accessed September 22, 2022.
<https://dnr.alaska.gov/parks/index.htm>.
- AKEPIC. 2022. Alaska Exotic Plants Information Clearing House. Accessed September 20, 2022.
<https://accs.uaa.alaska.edu/invasive-species/non-native-plants/>.

- Gracz. N.d. Cook Inlet Wetlands. Accessed September 22, 2022. <http://www.cookinletwetlands.info/>.
- FEMA. 2022. FEMA Flood Map Service Center. Accessed September 19, 2022. <https://msc.fema.gov/portal/search?AddressQuery=Wasilla#searchresultsanchor>.
- MSB. 2022. Tax Parcel Viewer. Accessed October 3, 2022. https://mapping.matsugov.us/Html5Viewer/index.html?viewer=MSB_Parcel_Viewer.
- MSB. 2022a. Wetland Viewer. Accessed September 22, 2022. <https://msb.maps.arcgis.com/apps/webappviewer/index.html?id=15658472427f459ab6d73b1d3ca5ab77>.
- NLURA. 2022. *Cultural Resources Desktop Analysis Report, Engstrom Road to Trunk Road Connector Project*. Anchorage Alaska. Prepared for the MSB. October 19, 2022.
- NPS. 2022. Alaska. Accessed September 19, 2022. <https://www.nps.gov/state/ak/index.htm>.
- NWI. 2022. National Wetland Inventory. Accessed September 22, 2022. <https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>.
- USACE. 2022. Navigable Waters. Accessed October 3, 2022. <https://www.poa.usace.army.mil/Portals/34/docs/regulatory/NavWat.pdf>.
- USACE & EPA. 2015. Clean Water Rule: Definition of “Waters of the United States.” Accessed October 14, 2022. <https://www.govinfo.gov/content/pkg/FR-2015-06-29/pdf/2015-13435.pdf>.
- USFS. 2022. Welcome to the Alaska Region! Accessed September 19, 2022. <https://www.fs.usda.gov/r10>.
- USFWS. 2022. Planning Ahead to Protect Nesting Birds. Accessed September 30, 2022. <https://www.fws.gov/alaska-bird-nesting-season>.
- USFWS. 2022a. Information for Planning and Conservation (IPaC). September 21, 2022. <https://ipac.ecosphere.fws.gov/location/index>.
- USFWS. 2022b. Alaska Migratory Birds Office; Eagles & Raptors. Accessed October 3, 2022. <https://www.fws.gov/office/alaska-migratory-birds/eagles-and-raptors>.
- USFWS. 2022c. National Wildlife Refuge System. Accessed October 11, 2022. <https://www.fws.gov/our-facilities?type=%5B%22National%20Wildlife%20Refuge%22%5D>.



HART LAKE LOOP

SETTLEMENT AVE

AIRFIELD ST

ENGSTROM RD

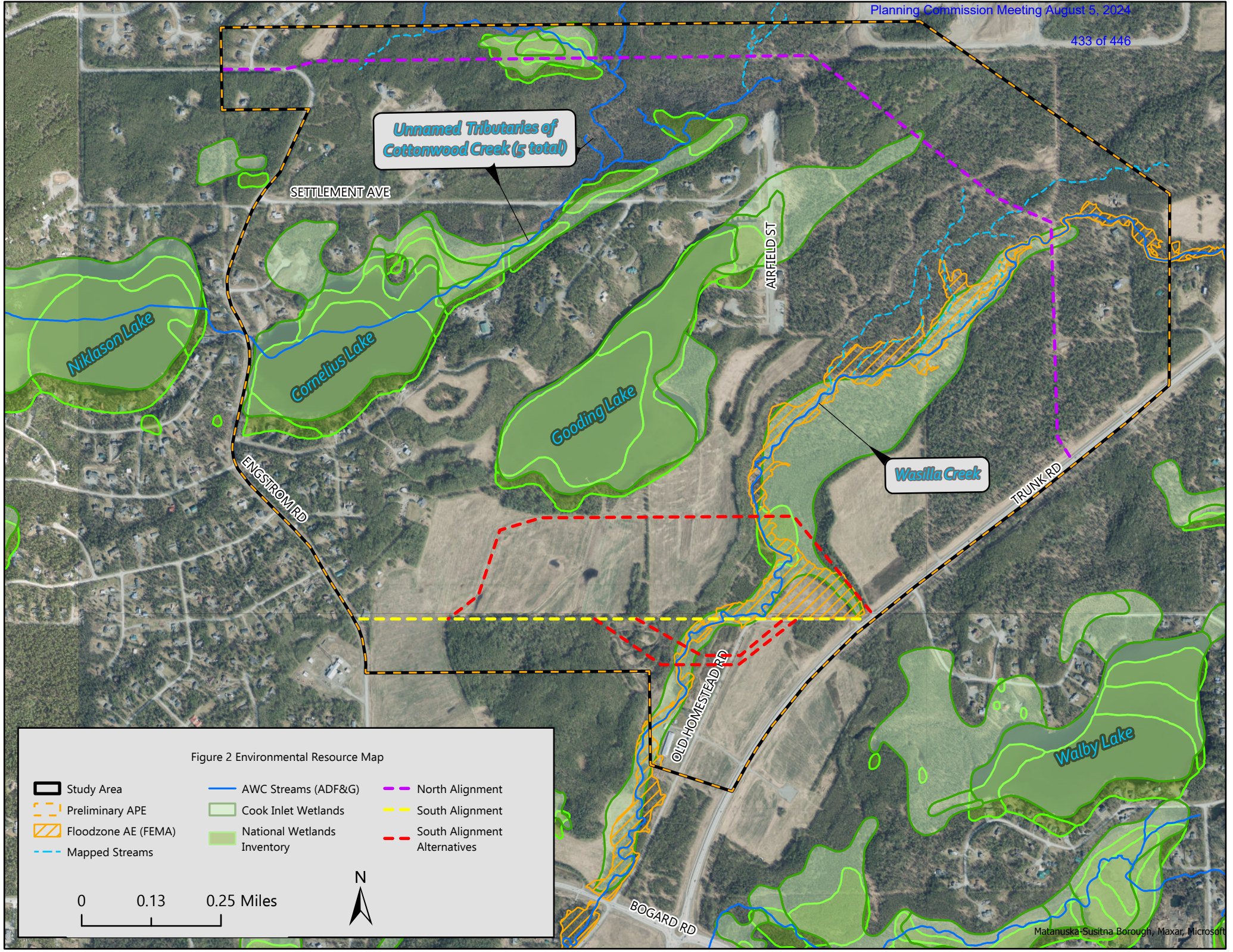
TRUNK RD

BOGARD RD

Figure 1 Location & Vicinity Map

- Study Area
- Preliminary APE
- Cultural Resource Study Area Buffer





Unnamed Tributaries of Cottonwood Creek (5 total)

Wasilla Creek

Figure 2 Environmental Resource Map

- Study Area
- Preliminary APE
- Floodzone AE (FEMA)
- Mapped Streams
- AWC Streams (ADF&G)
- Cook Inlet Wetlands
- National Wetlands Inventory
- North Alignment
- South Alignment
- South Alignment Alternatives

0 0.13 0.25 Miles



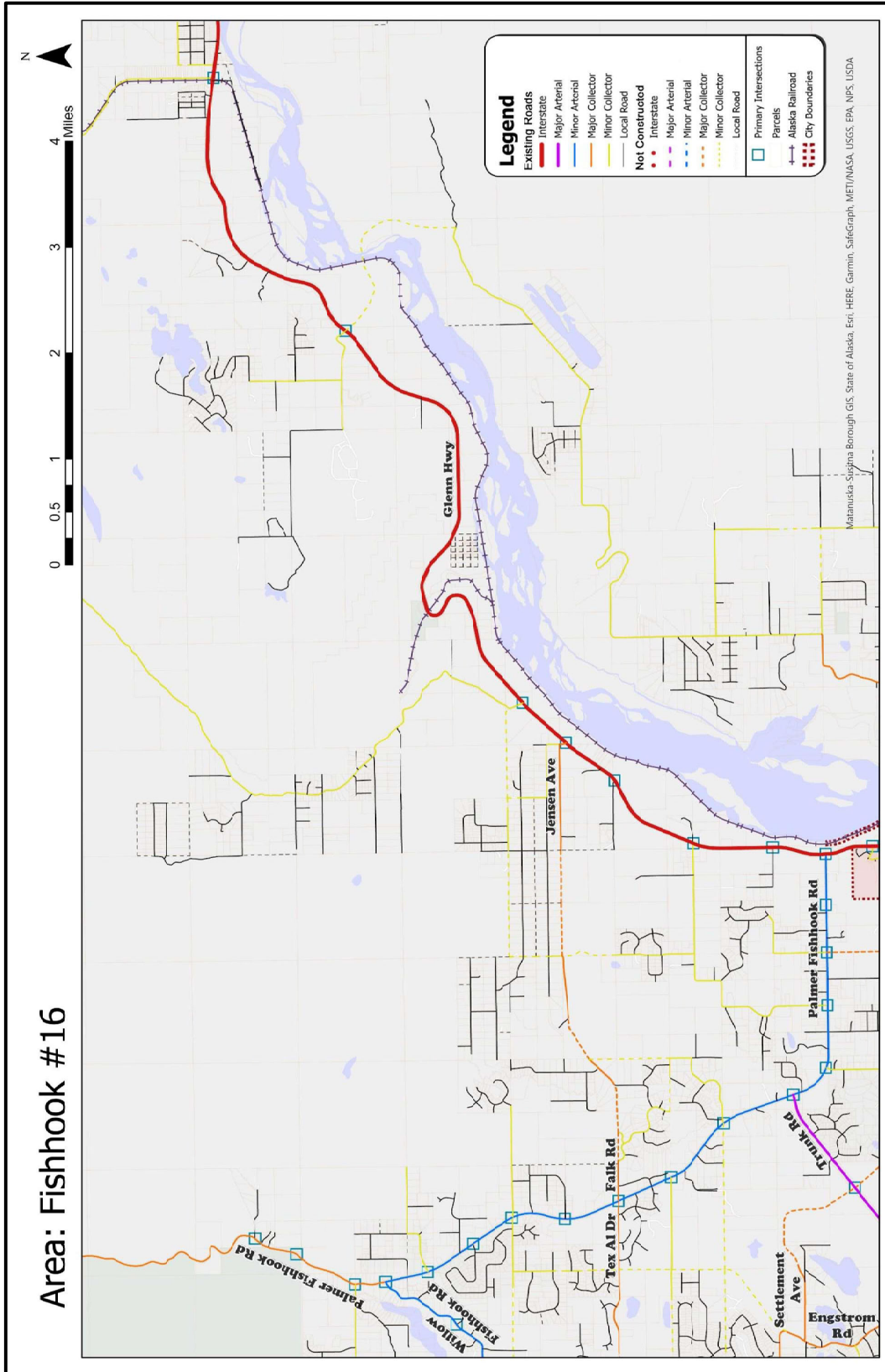
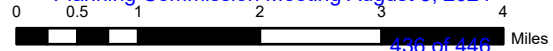
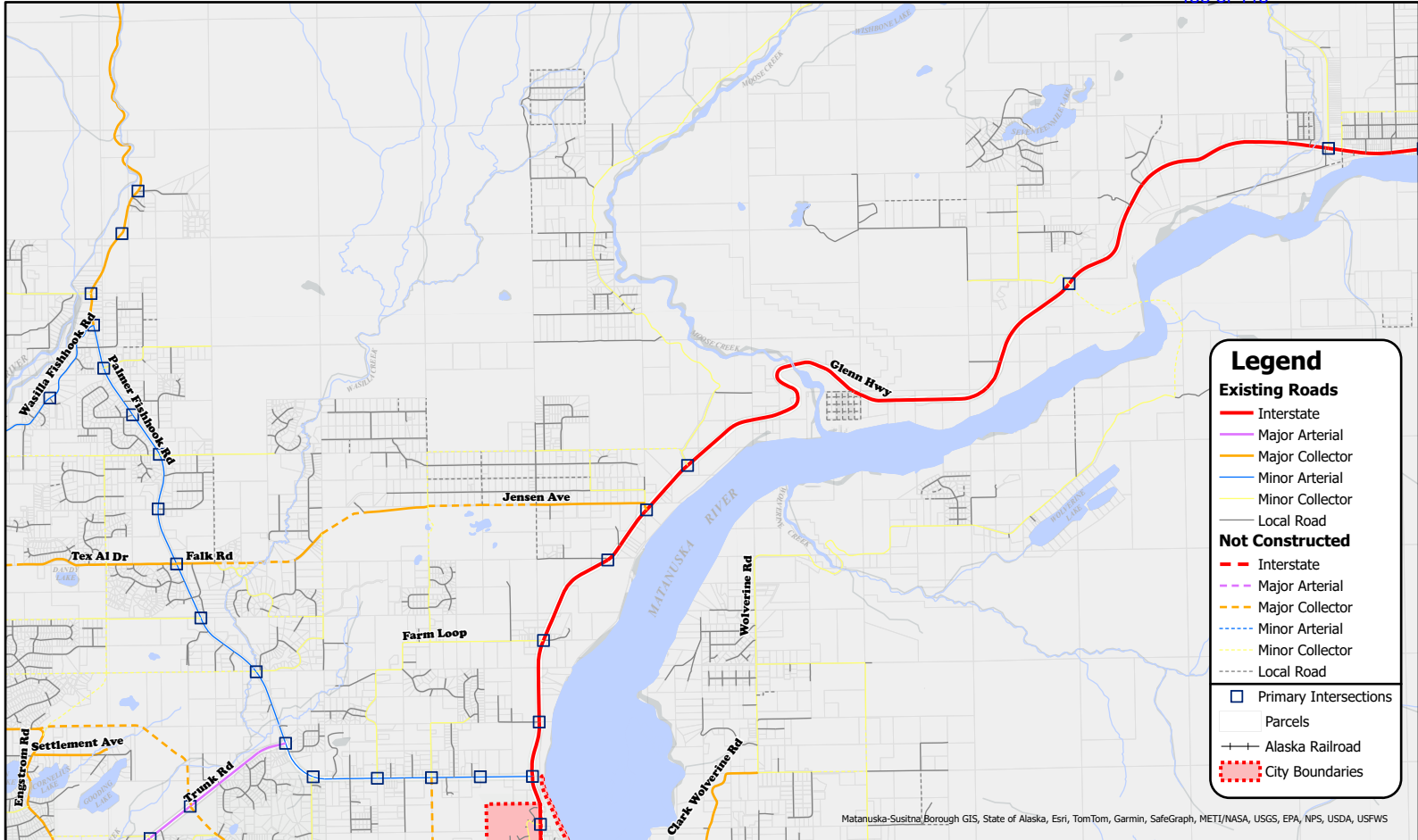


Figure 32. OS&HP Map 16 – Palmer Fishhook Rd

Area: Fishhook #16



436 of 446



Legend

Existing Roads

- Interstate (Red solid line)
- Major Arterial (Purple solid line)
- Major Collector (Orange solid line)
- Minor Arterial (Blue solid line)
- Minor Collector (Yellow solid line)
- Local Road (Grey solid line)

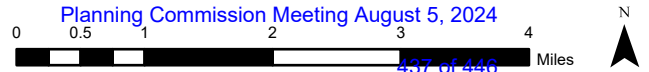
Not Constructed

- Interstate (Red dashed line)
- Major Arterial (Purple dashed line)
- Major Collector (Orange dashed line)
- Minor Arterial (Blue dashed line)
- Minor Collector (Yellow dashed line)
- Local Road (Grey dashed line)

Other Features

- Primary Intersections (Blue square)
- Parcels (Thin grey lines)
- Alaska Railroad (Black line with cross-ticks)
- City Boundaries (Red dashed rectangle)

Area: Meadow Lakes #17



Legend

Existing Roads

- Interstate
- Major Arterial
- Major Collector
- Minor Arterial
- Minor Collector
- Local Road

Not Constructed

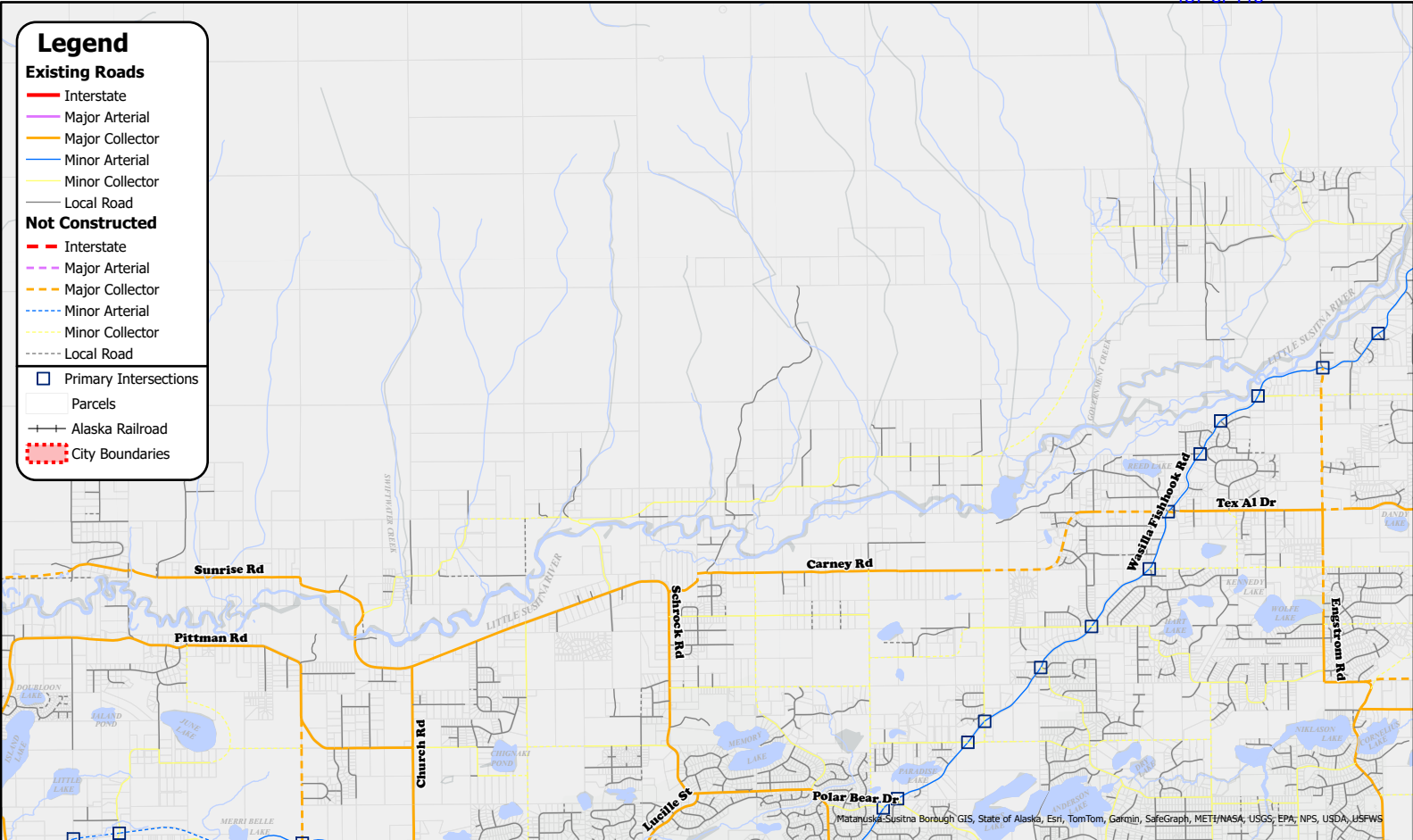
- Interstate
- Major Arterial
- Major Collector
- Minor Arterial
- Minor Collector
- Local Road

Primary Intersections

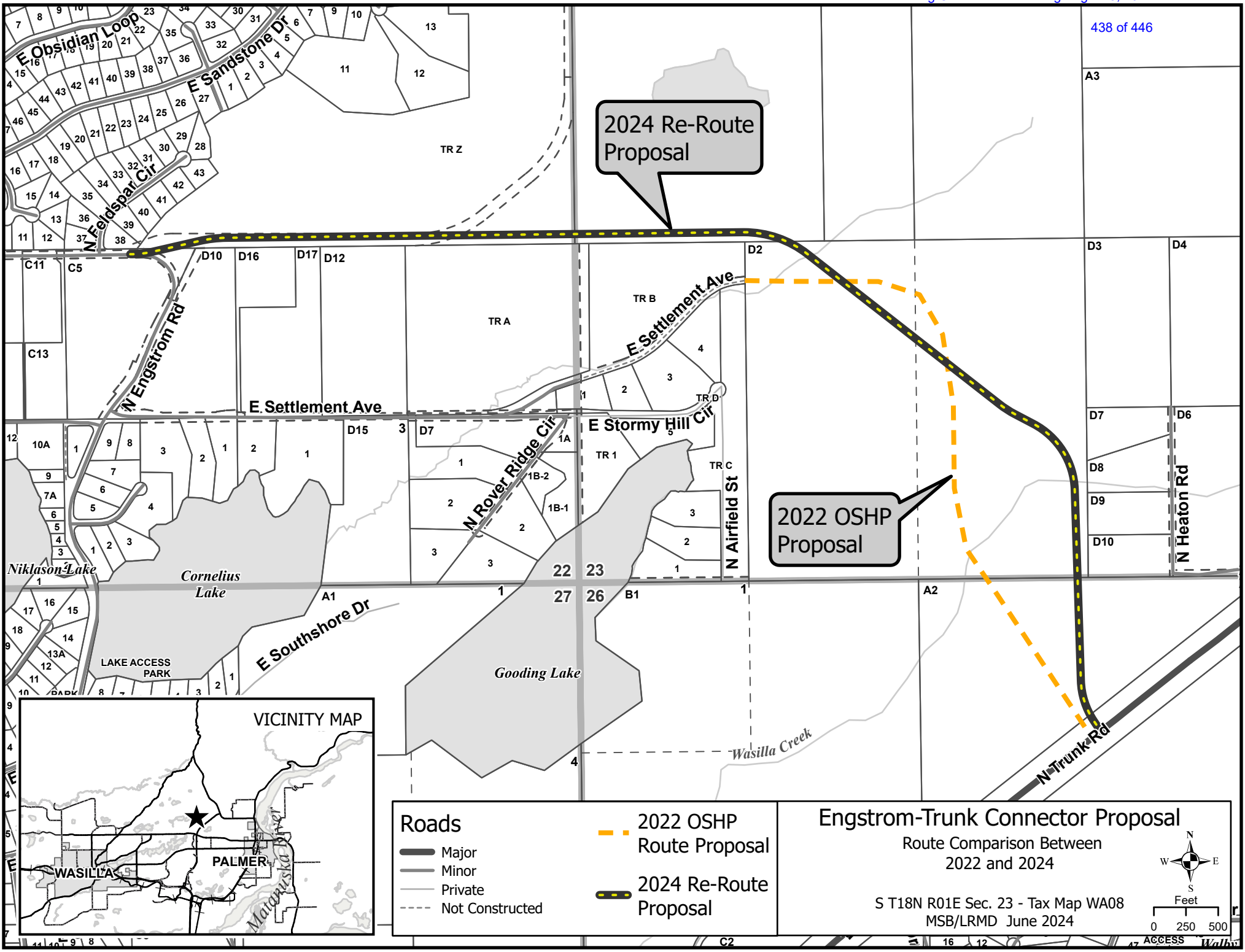
Parcels

Alaska Railroad

City Boundaries

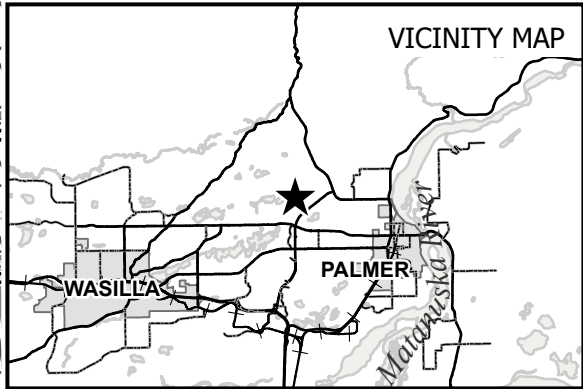


Path: M:\Product\Capital_P\Projects\PreDesign_and_Engineering\Transportation\Road_Expansion\Engstrom-Trunk Expansion.aprx



2024 Re-Route Proposal

2022 OSHP Proposal



Roads

- Major (thick solid line)
- Minor (medium solid line)
- Private (thin solid line)
- Not Constructed (dashed line)

2022 OSHP Route Proposal (dashed orange line)

2024 Re-Route Proposal (solid black line with yellow dashed centerline)

Engstrom-Trunk Connector Proposal

Route Comparison Between 2022 and 2024

S T18N R01E Sec. 23 - Tax Map WA08
MSB/LRMD June 2024

0 250 500 Feet

Action:

**MATANUSKA-SUSITNA BOROUGH
TRANSPORTATION ADVISORY BOARD RESOLUTION SERIAL NO. 24-02**

A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH TRANSPORTATION ADVISORY BOARD RECOMMENDING ADOPTION OF AN AMENDMENT TO THE MATANUSKA-SUSTINA BOROUGH 2022 OFFICIAL STREETS AND HIGHWAYS PLAN TO UPDATE ENGSTROM ROAD TO TRUNK ROAD CONNECTION ON THE MAP.

WHEREAS, the Official Streets and Highways Plan (OSHP) is a transportation planning tool that identifies future road corridors and road updates to accommodate the Borough's growing population and its transportation needs; and

WHEREAS, in 2021 the voters approved a connection from Engstrom to Trunk as part of a transportation improvement program; and

WHEREAS, in July 2023 the Borough hired HDL to conduct a reconnaissance study to determine the best route from Engstrom to Trunk in the area approved by the voters; and

WHEREAS, the map component of the OSHP requires an amendment based on the reconnaissance study; and

WHEREAS, the amendment will allow for proper location of the proposed North Alignment option connecting Engstrom Road and Trunk Road on the OSHP map.

NOW, THEREFORE, BE IT RESOLVED, that the Matanuska-Susitna Borough Transportation Advisory Board hereby recommends adoption of Ordinance Serial No. 24-073.

ADOPTED by the Matanuska-Susitna Borough Transportation Advisory Board this 9th day of August , 2024.

RANDY DURHAM, CHAIR

ATTEST:

LACIE OLIVIERI, TAB Clerk

DRAFT

CODE ORDINANCE

Sponsored by:
Introduced:
Public Hearing:
Action:

**MATANUSKA-SUSITNA BOROUGH
ORDINANCE SERIAL NO. 24-073**

AN ORDINANCE AMENDING MSB 15.24.030 (B) (46), OFFICIAL STREETS AND HIGHWAYS PLAN (OSHP) TO UPDATE ENGSTROM ROAD TO TRUNK ROAD CONNECTION ON THE MAP.

WHEREAS, the intent and rationale for this ordinance can be found in the accompanying information memorandum no. 24-133

BE IT ENACTED:

Section 1. Classification. This ordinance is of a general and permanent nature and shall become a part of the Borough Code.

Section 2. Amendment of paragraph. MSB 15.24.030(B) (46) Official Streets and Highways Plan is hereby amended as follows:

(46) The Official Streets and Highways Plan adopted 2022, amended 2024.

Section 3. Effective date. This ordinance shall take effect upon adoption.

ADOPTED by the Matanuska-Susitna Borough Assembly this - day
of -, 2024.

EDNA DeVRIES, Borough Mayor

ATTEST:

LONNIE R. McKECHNIE, CMC, Borough Clerk

(SEAL)

By: R.Fodge
Introduced: August 5, 2024
Public Hearing: August 19, 2024
Action:

**MATANUSKA-SUSITNA BOROUGH
PLANNING COMMISSION RESOLUTION SERIAL NO. 24-19**

A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH PLANNING COMMISSION RECOMMENDING ADOPTION OF AN AMENDMENT TO THE MATANUSKA-SUSTINA BOROUGH 2022 OFFICIAL STREETS AND HIGHWAYS PLAN TO UPDATE ENGSTROM ROAD TO TRUNK ROAD CONNECTION ON THE MAP.

WHEREAS, the Official Streets and Highways Plan (OSHP) is a transportation planning tool that identifies future road corridors and road updates to accommodate the Borough's growing population and its transportation needs; and

WHEREAS, in 2021 the voters approved a connection from Engstrom to Trunk as part of a transportation improvement program; and

WHEREAS, in July 2023 the Borough hired HDL to conduct a reconnaissance study to determine the best route from Engstrom to Trunk in the area approved by the voters; and

WHEREAS, the map component of the OSHP requires an amendment based on the reconnaissance study; and

WHEREAS, the amendment will allow for proper location of the proposed North Alignment option connecting Engstrom Road and Trunk Road on the OSHP map.

NOW, THEREFORE, BE IT RESOLVED, that the Matanuska-Susitna Borough Planning Commission hereby recommends adoption of Ordinance Serial No. 24-073.

ADOPTED by the Matanuska-Susitna Borough Planning Commission this - day of -, 2024.

CJ KOAN, CHAIR

ATTEST:

CORINNE LINDFORS, Planning Clerk


(SEAL)

DRAFT



MATANUSKA-SUSITNA BOROUGH
Planning and Land Use Department
 350 East Dahlia Avenue • Palmer, AK 99645
 Phone (907) 861-7822
www.matsugov.us

MEMORANDUM

DATE: July 16, 2024
 TO: Planning Commissioners
 FROM: Alex Strawn, Planning and Land Use Director 
 SUBJECT: Tentative Future PC Items

Upcoming PC Actions

Quasi-Judicial

- Houdini's Herbs- Marijuana Retail Facility; 6298B01L002 (Staff: Peggy Horton)
- The Aardvark - Alcoholic Beverage Dispensary; 1454000L001 (Staff: Peggy Horton)
- Craft Cannabis Cabin - Marijuana Retail Facility; 1842B01L007 (Staff: Rick Benedict)
- Ficklin Gravel Products LLC- Earth Materials Extraction; 16N04W03A009 (Staff: Rick Benedict)
- Butte Land Co. - Earth Materials Extraction; 17N02E35A024 (Staff: Peggy Horton)
- New Horizons Telecom- Tall Structure; 17N03E30A012 (Staff: Rick Benedict)
- Havemeister Pit - Earth Materials Extraction; 18N01E27A002, D001, & D002 (Staff: Peggy Horton)
- Big Dipper Pit- Earth Materials Extraction; 1341000T001 & 1341000T002 (Staff: Rick Benedict)
- Susitna Sungrown LLC – Standard Marijuana Cultivation Facility; 24N04W30A014 (Staff: Rick Benedict)

- The Ark@Denali RV Resort-Denali Special Land Use District; U0499800L002 (Staff: Peggy Horton)

Legislative

- Historic Preservation Plan (HPP) (Staff: Leda Borys)
- MSB Borough-Wide Comprehensive Plan (Staff: Alex Strawn)
- Glacier View Comprehensive Plan Update (Staff: Leda Borys)
- Corridor Studies (Staff: Julie Spackman)
- Public Transit Plan (Staff: Alex Strawn and Maija DiSalvo)
- Amending MSB 17.59 Standardize Definitions for Lake Management Regulations (Staff: Alex Strawn)
- Fuller Lake Lake Management Plan (Staff: Rodney Fodge)