



# 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](mailto: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](mailto: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?	

<b>Submit a detailed site plan, <i>drawn to scale</i>. Drawings under the seal of an engineer or surveyor are recommended but not required.</b>	<b>Attached</b> <a href="#">See Appendices</a>
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
<b>LaQuita Chmielowski</b> <small>Digitally signed by: LaQuita Chmielowski DN: CN = LaQuita Chmielowski OU = Staff, Users, Standard Date: 2024.03.26 14:54:13 -08'00'</small>	<a href="#">LaQuita Chmielowski, PE, LEED AP</a>	

Signature: Agent	Printed Name	Date
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**PERMIT CENTER – FEE RECEIPT FORM**

Property Location: HOLIDAY MEADOW LAKES Applicant: DOWL

	<b>USE PERMITS {100.000.000.341.300}</b>	<b>Fee</b>
<input type="checkbox"/>	<b>8.35</b> Public Display of Fireworks	\$25.00
<input type="checkbox"/>	<b>8.40.010</b> 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"/>	<b>8.41.010</b> 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"/>	<b>8.52</b> Temporary Noise Permit	\$1000.00
<input type="checkbox"/>	<b>8.55</b> Special Events Permit 500 – 1000 Attendees	\$500.00
	1000+ Attendees	\$1,000.00
<input type="checkbox"/>	<b>8.55</b> Special Events Permit Site Monitor Fee / Per Day	\$300.00
<input type="checkbox"/>	<b>17.02</b> Mandatory Land Use Permits Commercial	\$50.00
<input type="checkbox"/>	<b>17.04</b> Nancy Lake Special Land Use District CUP	\$1,500.00
<input type="checkbox"/>	<b>17.06</b> Electrical Generating & Delivery Facility Application	\$500.00
<input type="checkbox"/>	<b>17.08</b> Hay Flats Special Land Use District Exception Application	\$1000.00
<input type="checkbox"/>	<b>17.17</b> Denali State Park Conditional Use Permit	\$1500.00
<input type="checkbox"/>	<b>17.18</b> Chickaloon Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	<b>17.19</b> Glacier View Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	<b>17.23</b> Port MacKenzie Development Permit	\$1000.00
<input type="checkbox"/>	<b>17.25</b> Talkeetna Conditional Use Permit	\$1500.00
<input type="checkbox"/>	<b>17.25</b> Talkeetna Conditional Use Permit – Variance	\$1500.00
<input type="checkbox"/>	<b>17.27</b> Sutton Special Land Use District CUP	\$1500.00
<input type="checkbox"/>	<b>17.29</b> Flood Damage Prevention Development Permit	\$100.00
<input type="checkbox"/>	<b>17.29</b> Flood Damage Prevention Development Permit –Variance	\$500.00
<input type="checkbox"/>	<b>17.30.040</b> Earth Materials Extraction Admin. Permit	\$1000.00
<input type="checkbox"/>	<b>17.30.050</b> Earth Materials Extraction CUP	\$1500.00
	<b>17.36</b> 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"/>	<b>17.48</b> Mobile Home Park Permit Application	\$500.00
<input type="checkbox"/>	<b>17.52</b> Residential Land Use District App (Rezone)	\$1,000.00
<input type="checkbox"/>	<b>17.52</b> Conditional Use Permit Application CUP	\$1,500.00
<input type="checkbox"/>	<b>17.55</b> Shoreline Setback Exception Application	\$300.00
<input type="checkbox"/>	<b>17.60</b> Conditional Use Permit Application	\$1500.00
<input type="checkbox"/>	<b>17.61</b> Commercial/Industrial Core Area Conditional Use Permit	\$1500.00
<input type="checkbox"/>	<b>17.62</b> 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](http://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. 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

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**[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](mailto:Rick.Benedict@matsugov.us)  
**CC:** LaQuita Chmielowski (DOWL); [Harani.Kumaresh@collierseng.com](mailto:Harani.Kumaresh@collierseng.com); [mark.stinson@circlek.com](mailto: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

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# 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@matsugo v.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

**HOLIDAY STATIONSTORES**

4567 American Boulevard West, Bloomington, MN 55437 (952) 830-8700

# 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

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# 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

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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

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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

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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

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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**

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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: 

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

Oscar Lage  
Building Plans Examiner I

**Full Plan Review**



THE STATE  
of ALASKA  
GOVERNOR MIKE DUNLEAVY

## 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

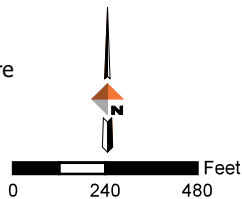
Enclosure: Approval Certificate

**APPENDIX 1:  
MAPS AND PROPERTY  
INFORMATION**

The page features a large, light gray triangular shape in the bottom-left corner and a smaller, orange triangular shape in the bottom-right corner. The text is centered in the upper half of the page.



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



### Location Vicinity Map

Wasilla Holiday Alcohol CUP

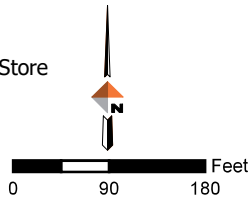


Date: March 2024

Figure 1



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



**Site Map**

Wasilla Holiday Alcohol CUP




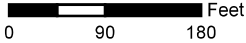






Date: March 2024

Figure 2





 New Holiday Location	 1ft Contours	 	<b>Existing Topographic Map</b>	
 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		
<b>Existing Drainage Map</b>			
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 ADAPT THIS PLAN OF SUBDIVISION BY MY FREE CONSENT, 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  
4527 AMERICAN BOULEVARD W.  
BLOOMINGTON, MN 55437

11/16/2023  
DATE

**NOTARY ACKNOWLEDGEMENT**

SUBSCRIBED AND SWORN TO BEFORE ME THIS 14<sup>TH</sup> DAY OF December 2023, FOR Gary Brant

1-31-2026  
MY COMMISSION EXPIRES

SHELLY A. SCHILLING  
Notary Public-Minnesota  
My Commission Expires 03/31/2025

**CERTIFICATE OF PAYMENT OF TAXES**

I HEREBY CERTIFY THAT ALL CURRENT TAXES AND SPECIAL ASSESSMENTS, THROUGH December 31, 2023, AGAINST THE PROPERTY, INCLUDED IN THE SUBDIVISION OR RECONSTRUCTION, HERETOFORE HAVE BEEN PAID.

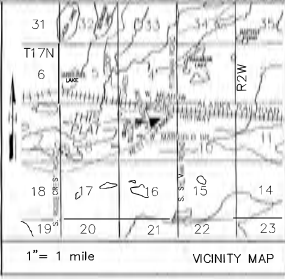
February 13, 2024  
Denise Altem  
TAX COLLECTION OFFICIAL (MATANUSKA-SUSTINA BOROUGH)

**PLANNING AND LAND USE DIRECTOR'S CERTIFICATE**

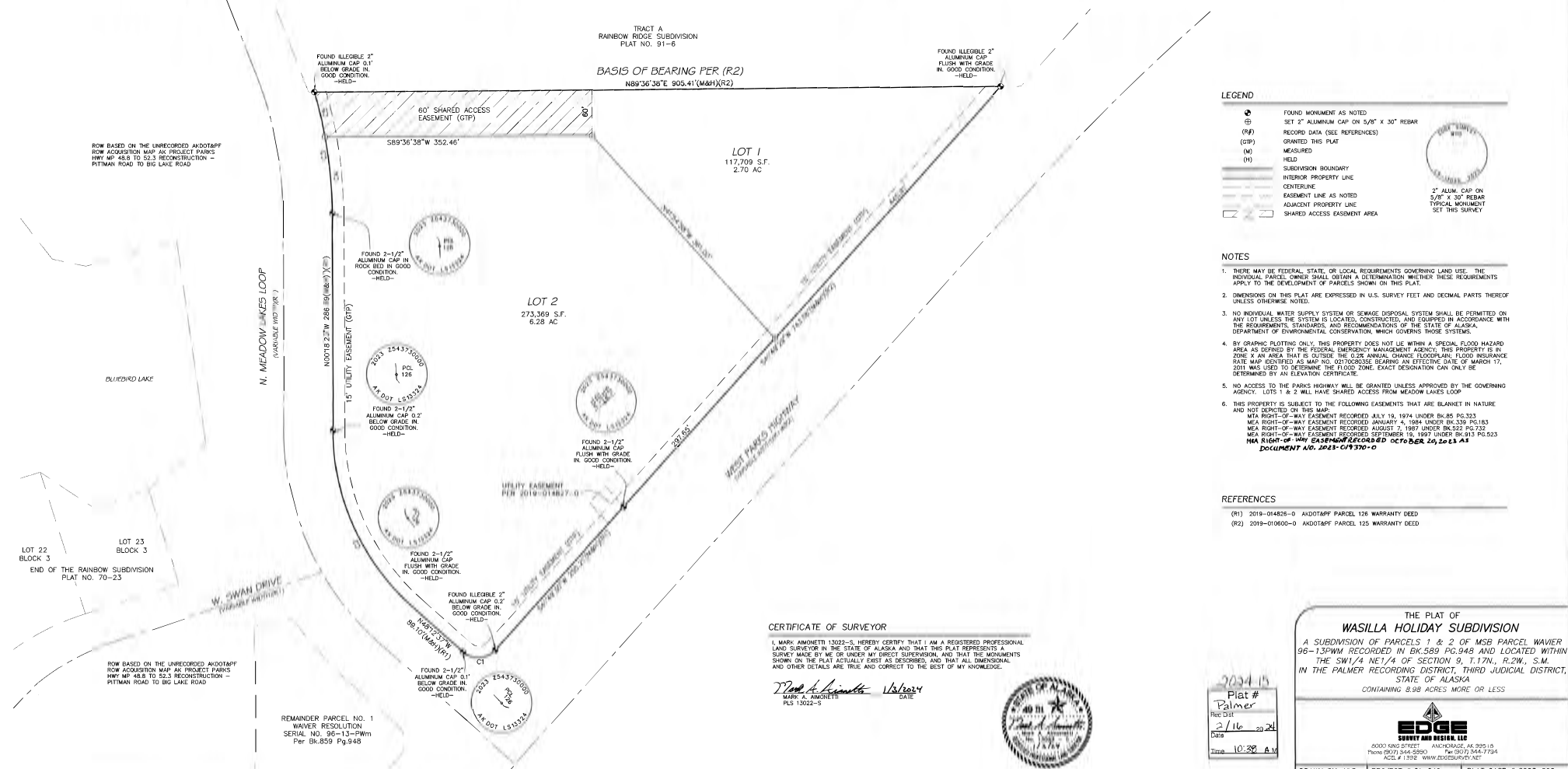
I CERTIFY THAT THIS SUBDIVISION PLAN HAS BEEN FOUND TO COMPLY WITH THE LAND SUBDIVISION REGULATIONS OF THE MATANUSKA-SUSTINA BOROUGH, AND THAT THE PLAN HAS BEEN APPROVED BY THE PLANNING AUTHORITY BY PLAT RESOLUTION NUMBER 2023-018, DATED 3/16/2023, AND THAT THIS PLAN HAS BEEN APPROVED FOR RECORDING IN 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  
Amson  
PLANNING AND LAND USE DIRECTOR

ATTEST: Kaitie's  
CLERK



CURVE TABLE						
CURVE #	RADIUS	DELTA	LENGTH	CHORD DIRECTION	CHORD LENGTH	TANGENT
C1(MANUSKA)	30.00'	89°57'53"	47.11'	S86°48'27"W	42.41'	25.58'
C2(MANUSKA)	315.00'	47°54'17"	283.17'	N2°41'52"W	255.77'	139.93'
C3(MANUSKA)(R2)	575.00'	167°7'55"	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'



**LEGEND**

- ⊙ FOUND MONUMENT AS NOTED
- ⊕ SET 2" ALUMINUM CAP ON 5/8" x 30" REBAR
- (DP) 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

2" ALUM. CAP ON 5/8" x 30" REBAR TYPICAL MONUMENT SET THIS SURVEY

- NOTES**
- THESE 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.
  - DIMENSIONS ON THIS PLAT ARE EXPRESSED IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
  - 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.
  - BY GRADING PLATING ONLY, THIS PROPERTY DOES NOT USE 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 WITHIN THE 100-YEAR FLOOD PLAIN. FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 021700035E 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.
  - 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.
  - 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 15, 1974 UNDER BK 85 PG 333  
 MEA RIGHT-OF-WAY EASEMENT RECORDED JANUARY 4, 1984 UNDER BK 139 PG 163  
 MEA RIGHT-OF-WAY EASEMENT RECORDED AUGUST 7, 1997 UNDER BK 262 PG 252  
 MEA RIGHT-OF-WAY EASEMENT RECORDED SEPTEMBER 19, 1997 UNDER BK 913 PG 523  
 MEA RIGHT-OF-WAY EASEMENT RECORDED OCTOBER 24, 2013 AS Document No. 2013-019370-0

- REFERENCES**
- (R1) 2019-014828-0 AKDOTTAPP PARCEL 126 WARRANTY DEED
  - (R2) 2019-010600-0 AKDOTTAPP PARCEL 125 WARRANTY DEED

**CERTIFICATE OF SURVEYOR**

I, MARK 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  
PLS 13022-3



2024-15  
Plat #  
Palmer  
Rec 218  
2/16/2024  
Date  
Time 10:32 AM

THE PLAT OF  
**WASILLA HOLIDAY SUBDIVISION**  
A SUBDIVISION OF PARCELS 1 & 2 OF MSP PARCEL WAIVER 96-13PWW RECORDED IN BK 589 PG 948 AND LOCATED WITHIN THE SW 1/4 NE 1/4 OF SECTION 9, T.17N., R.2W., S.M. IN THE PALMER RECORDING DISTRICT, THIRD JUDICIAL DISTRICT, STATE OF ALASKA  
CONTAINING 2.98 ACRES MORE OR LESS

**EDGE**  
SURVEY AND DESIGN, LLC  
8000 KING STREET ANCHORAGE, AK 99515  
Phone (907) 544-5250 Fax (907) 544-7724  
ACSL # 1332 www.edgesurvey.com

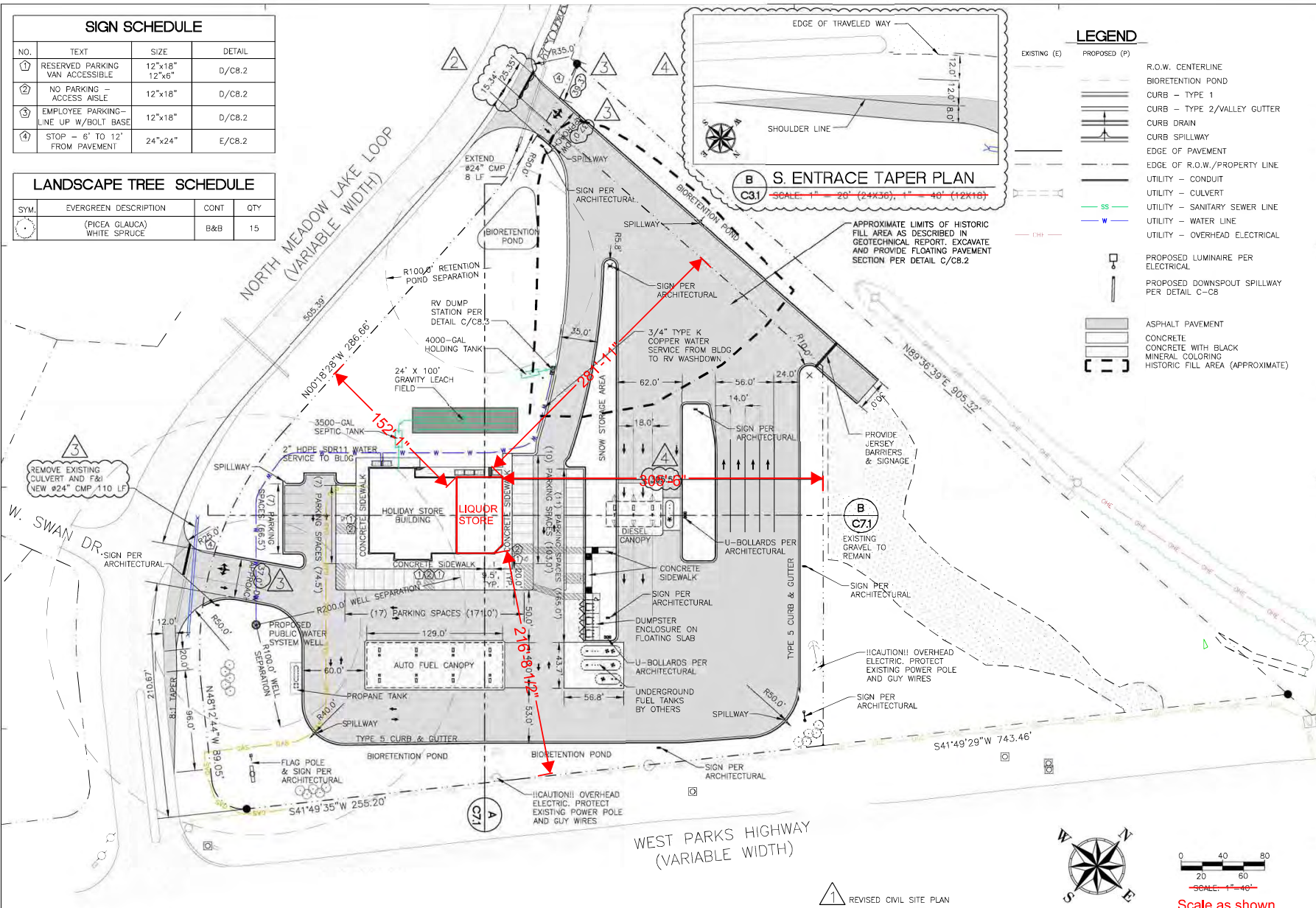
DRAWN BY: VLB PROJECT # 21-240 PLAT CASE # 2023-092  
CHECKED BY: MA DATE: 10/26/2023 SCALE: 1"=60' SHEET 1 OF 1



**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)

**S. ENTRANCE TAPER PLAN**  
SCALE: 1" = 20' (24x36), 1" = 40' (12x18)

**A CIVIL SITE PLAN ANNOTATION FOR ALCOHOL CUP - THIS PLAN INTENDED TO SHOWN SELECT DIMENTIONS IN RED**  
**C31 SCALE: 1" = 40' (24x36), 1" = 80' (12x18) (DOCUMENT HAS BEEN RESIZED)**



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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 express written permission from the Professional.

DATE	BY	REVISION
3/7/23	PLW/PLD	
3/7/23	PLW/PLD	
3/7/23	PLW/PLD	
3/7/24	PLW/PLD	



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

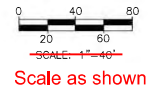
**PROJECT NAME**  
**CIRCLE K STORES INC. STORE #650**  
**WASILLA ALASKA**  
7751 WEST PARKS HWY  
WASILLA, ALASKA 99623  
MATANUSKA-SUSITNA CO



**PROJECT NUMBER**  
014764.40  
**SHEET TITLE**

**CIVIL SITE PLAN**

**SHEET NUMBER**  
**C-3.1**



**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**

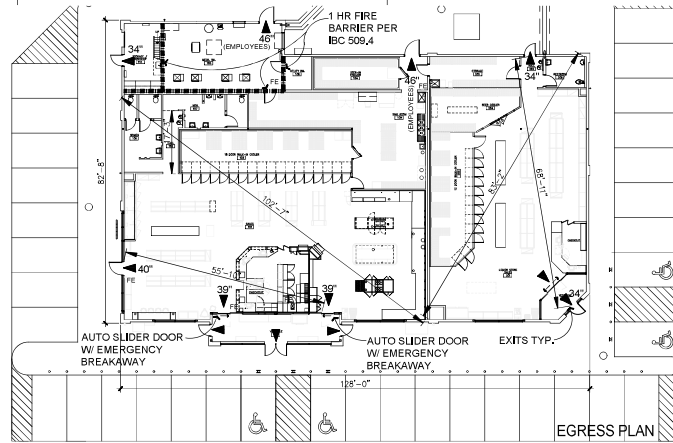
NELSON ENGINEERING  
155 BIDARKA STREET  
KENAI, AK  
907-283-3583

**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

**SHEET INDEX**

**T.1 TITLE SHEET**

**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

**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

**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)	
a. CONVENIENCE STORE - M - MERCANTILE	MIXED OCCUPANCY NON-SEPARATED
b. LIQUOR STORE - M - MERCANTILE	B - BUSINESS M - MERCANTILE S-1 - STORAGE
c. TOTAL	6,740 SF
	3,163 SF
	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 509 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)	
a. ALLOWABLE NUMBER OF STORIES	ONE STORY
b. ACTUAL STORIES	ONE STORY
3. ALLOWABLE HEIGHT (IBC SECTION 504.2)	
a. ACTUAL HEIGHT	40'-0"
4. EXTERIOR WALL PROTECTION (IBC TABLE 602)	
a. LESS THAN 5 FEET	2 HOUR FIRE RESISTANCE RATING
b. LESS THAN 10 FEET	1 HOUR FIRE RESISTANCE RATING
c. GREATER THAN OR EQUAL TO 10 FEET	0 HOUR FIRE RESISTANCE RATING
5. FIRE RESISTIVE REQUIREMENTS (IBC TABLE 601)	
a. STRUCTURAL FRAME	0 HOUR FIRE RESISTANCE RATING
b. BEARING WALLS - INTERIOR & EXTERIOR	0 HOUR FIRE RESISTANCE RATING
c. NONBEARING WALLS - INTERIOR & EXTERIOR	0 HOUR FIRE RESISTANCE RATING
d. FLOOR CONSTRUCTION - INCLUDING SUPPORTING BEAMS & JOISTS	0 HOUR FIRE RESISTANCE RATING
e. ROOF CONSTRUCTION - INCLUDING SUPPORTING BEAMS & JOISTS	0 HOUR FIRE RESISTANCE RATING
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.
b. CONVENIENCE STORE - 130 OCCUPANTS x .20	3 PROVIDED - 118" TOTAL EXIT WIDTH @ SALES FLOOR
c. LIQUOR STORE - 76 OCCUPANTS x .20	2 REQ. - 15.2" MIN.
	2 PROVIDED - 68" TOTAL EXIT WIDTH @ SALES FLOOR
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
	1 REQ'D / 1 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
	1 REQ'D / 1 PROVIDED



XX/KX/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



**CIRCLE K STORES INC.**

PROJECT NUMBER  
014764.40

**SHEET TITLE**

TITLE SHEET

**SHEET NUMBER**

T1.1

**DEMOLITION PLAN NOTES:**

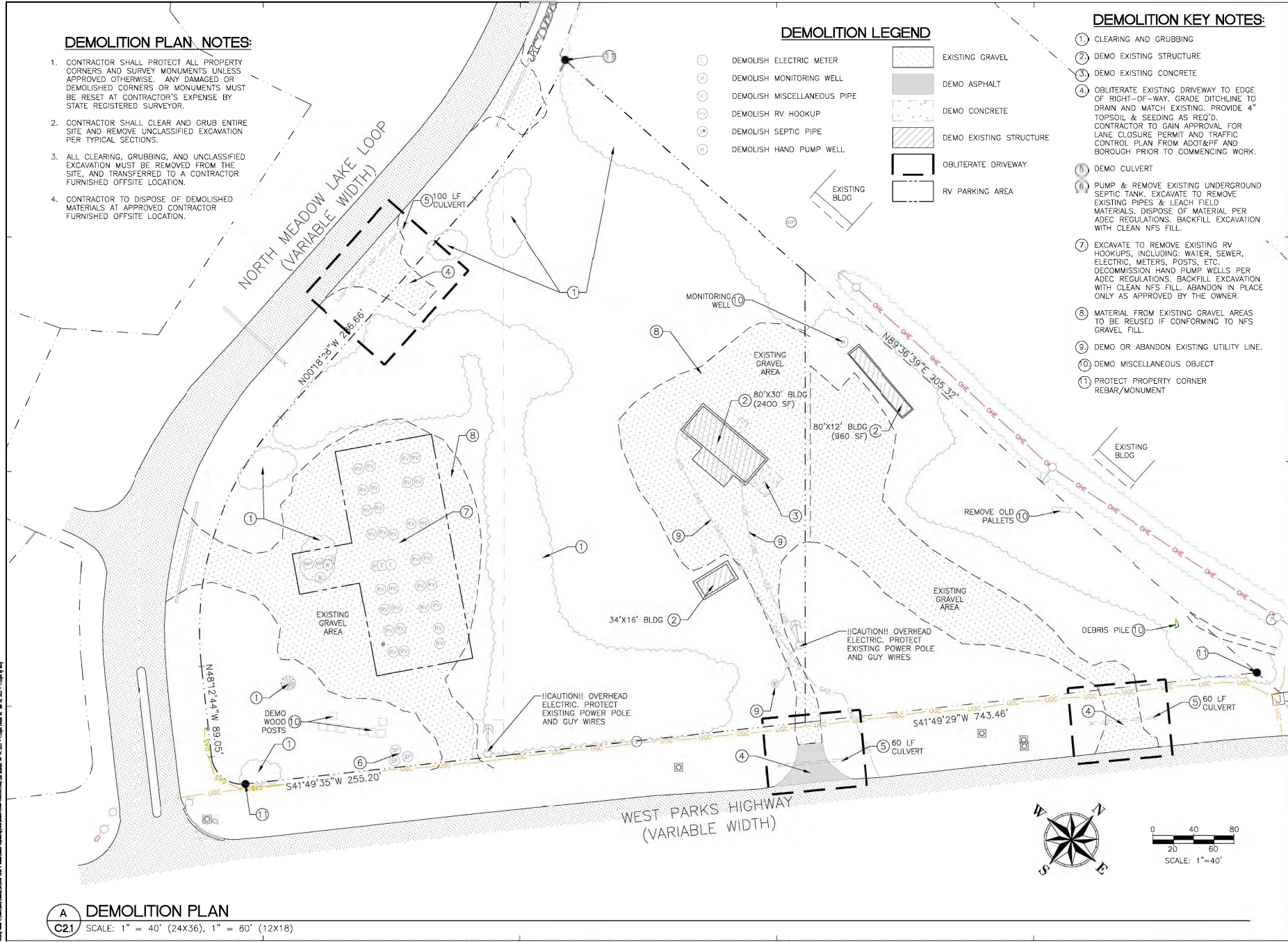
1. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS AND SURVEY MONUMENTS UNLESS APPROVED OTHERWISE. ANY DAMAGED OR DEMOLISHED CORNERS OR MONUMENTS MUST BE RESET AT CONTRACTOR'S EXPENSE BY STATE REGISTERED SURVEYOR.
2. CONTRACTOR SHALL CLEAR AND GRUB ENTIRE SITE AND REMOVE UNCLASSIFIED EXCAVATION PER TYPICAL 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. OBLETE 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



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

**NELSON ENGINEERING**  
 155 BUDARCA STREET  
 WENNA, ALASKA 99611  
 (907) 283-3563  
 LICENSE NO. 40522-01

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3/1/23 PSM/MSB/SST

**PROFESSIONAL SEAL**

**PROFESSIONAL IN CHARGE**  
 MJD  
**PROJECT MANAGER**  
 WZD  
**QUALITY CONTROL**  
 WZD/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**

5200 NATIONAL PROTOTYPE

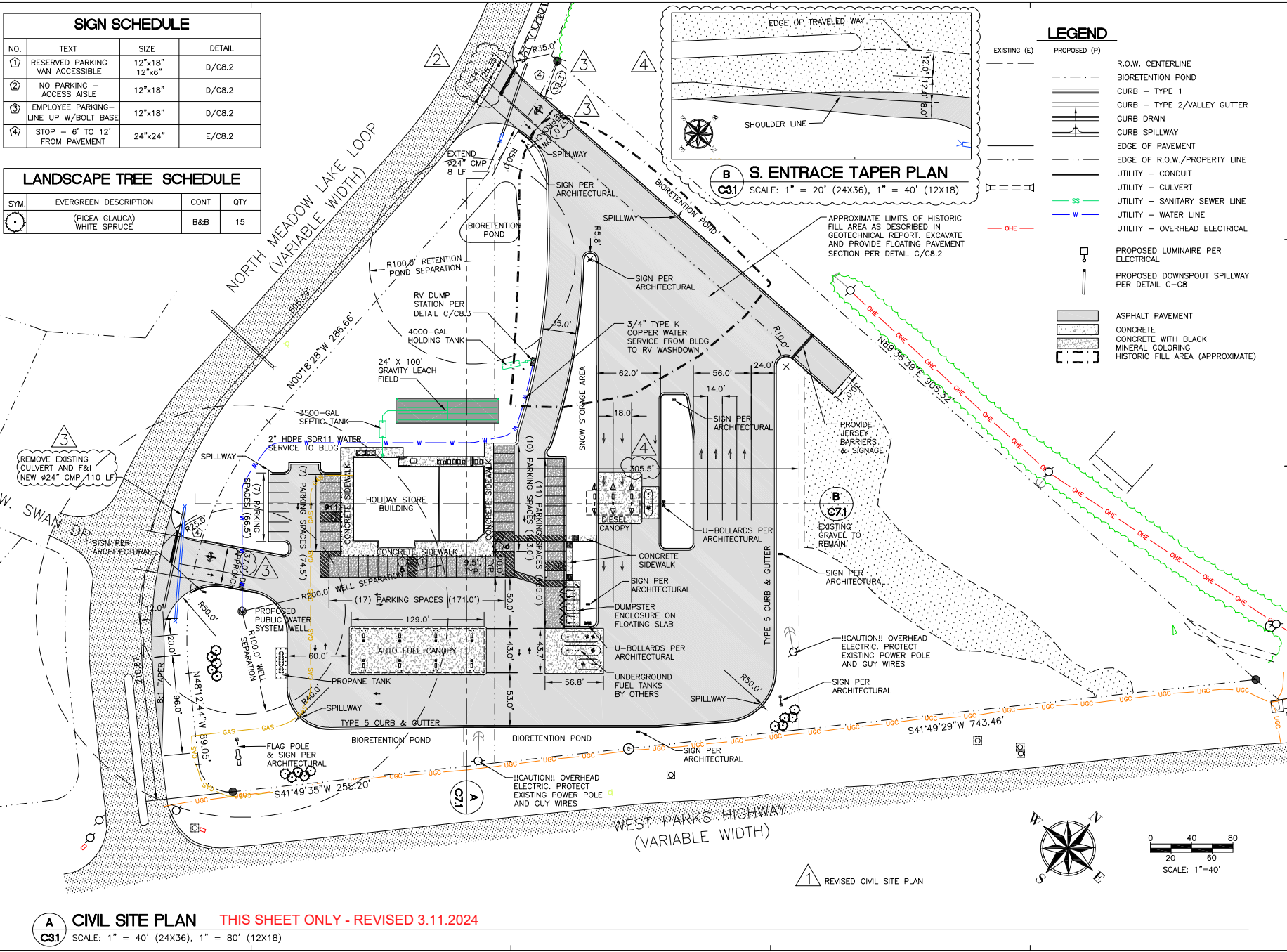
SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
①	RESERVED PARKING VAN ACCESSIBLE	12"x18" 12"x6"	D/CB.2
②	NO PARKING ACCESS AISLE	12"x18"	D/CB.2
③	EMPLOYEE PARKING-LINE UP W/ BOLT BASE	12"x18"	D/CB.2
④	STOP - 6" TO 12" FROM PAVEMENT	24"x24"	E/CB.2

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

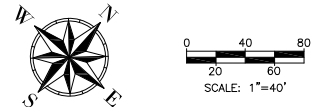
**LEGEND**

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
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- UTILITY - CULVERT
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- 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)



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







**NELSON ENGINEERING**  
 155 BILARCA STREET  
 DENALI, ALASKA 99511  
 (907) 283-3563  
 LICENSE NO. 4000-0174

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3/1/23 P044/000-001



**PROFESSIONAL SEAL**  
**PROFESSIONAL IN CHARGE**  
 MJO  
**PROJECT MANAGER**  
 WZO  
**QUALITY CONTROL**  
 WZO/MJO  
**DRAWN BY**  
 WZO

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

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



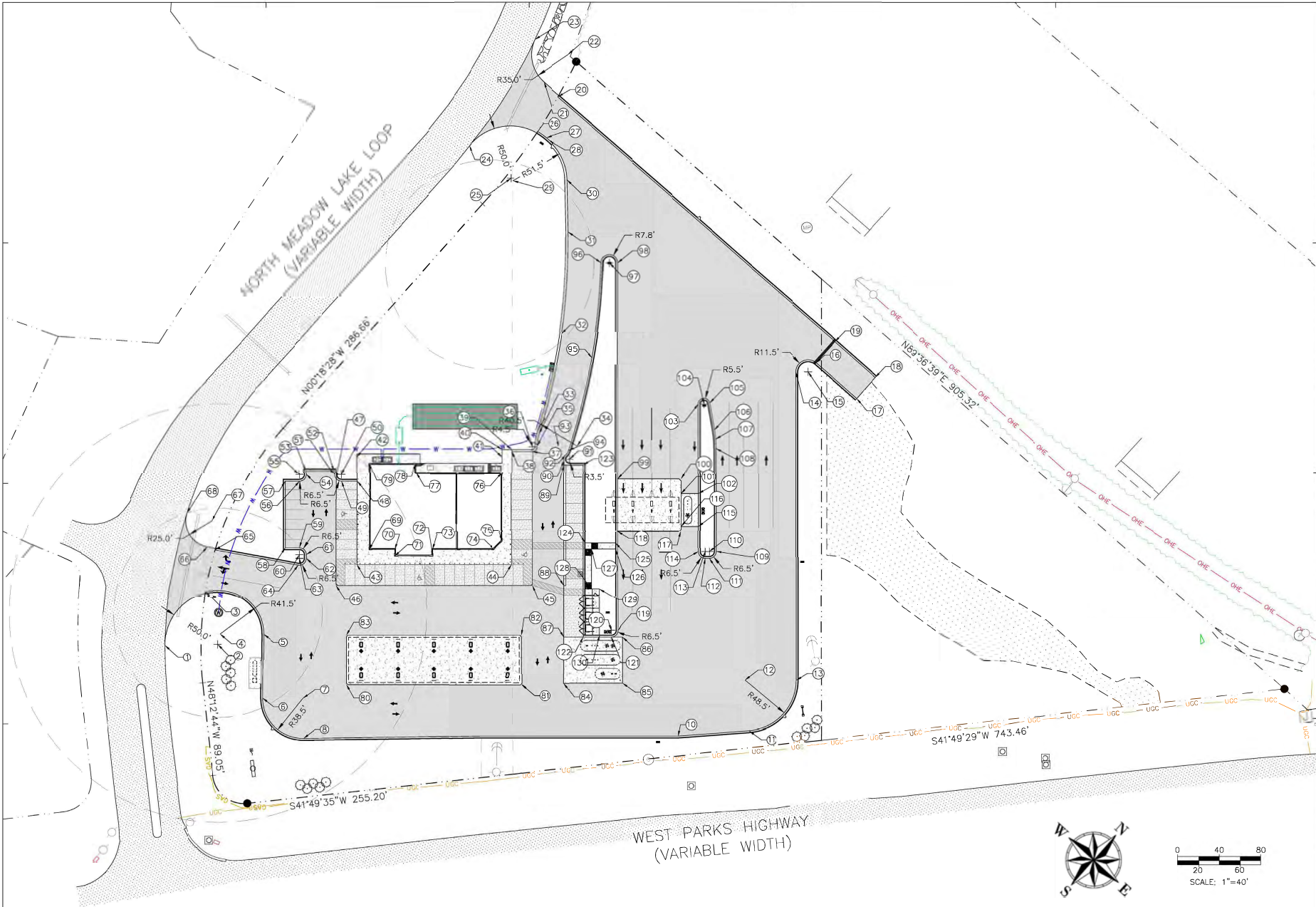
**PROJECT NUMBER**  
 014764.40  
**SHEET TITLE**

**SITE LAYOUT**

**SHEET NUMBER**

**C-4,1**

5200 NATIONAL PROTOTYPE

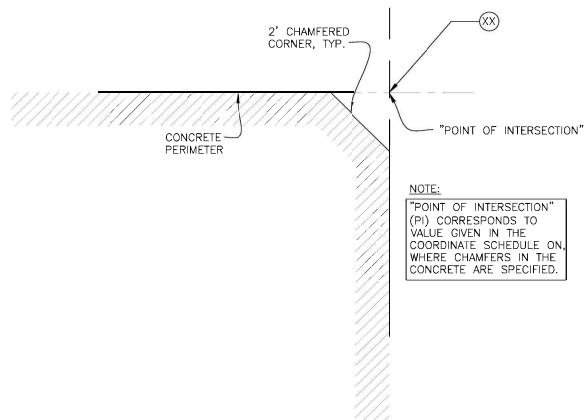


**A** **C41** **SITE LAYOUT**  
 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)

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	2769541.69	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	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  
**C4.2** SCALE: NTS

**B** CHAMFERED CORNER COORDINATE  
**C4.2** SCALE: NTS

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

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3/1/23 PSM/ JMB/SST

**PROFESSIONAL SEAL**  


**PROFESSIONAL IN CHARGE**  
 M.D. PROJECT MANAGER  
 W.D. QUALITY CONTROL  
 W.D./M.D. 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**

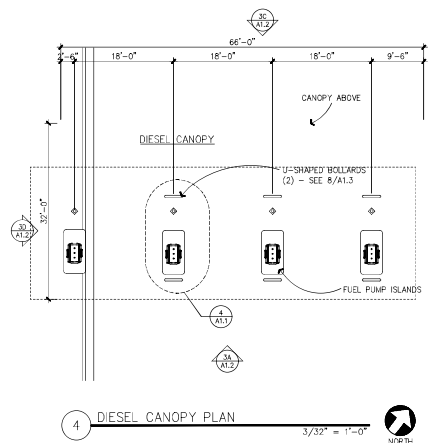
**PROJECT NUMBER**  
 014764.40

**SHEET TITLE**  
**SITE LAYOUT COORDINATE SCHEDULE**

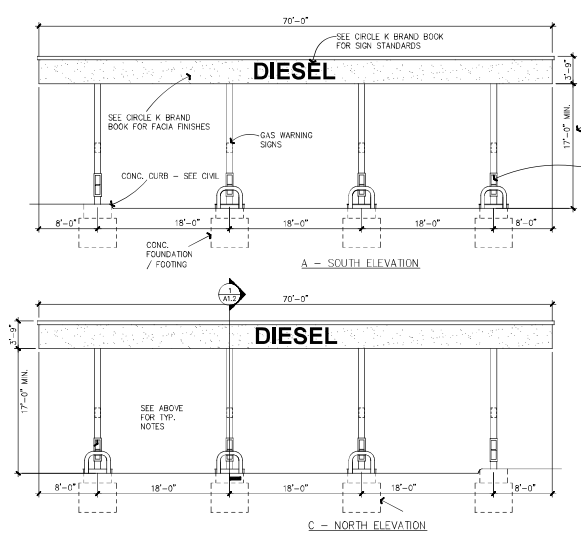
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**C-4.2**

5200 NATIONAL PROTOTYPE

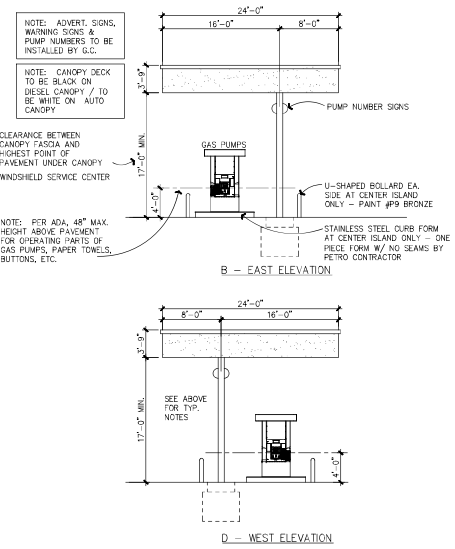




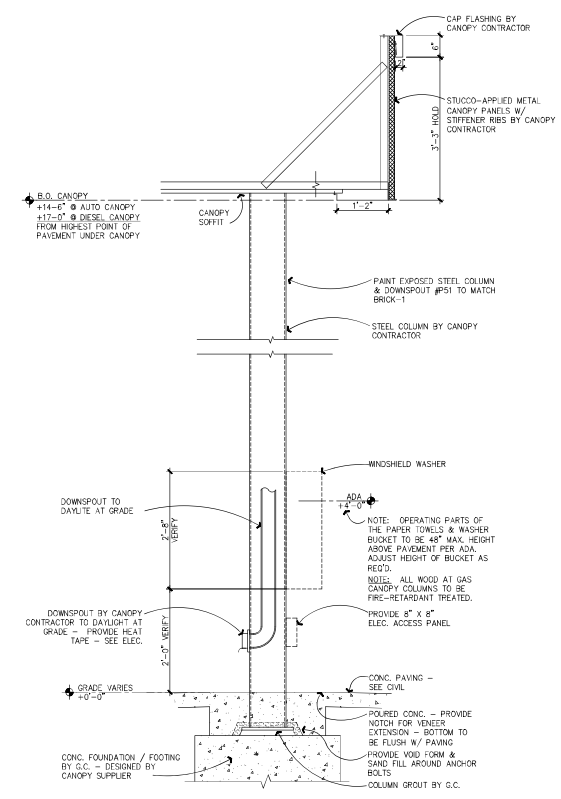
4 DIESEL CANOPY PLAN  
3/32" = 1'-0" NORTH



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



B - EAST ELEVATION  
D - WEST ELEVATION



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



KI/KI/23 PERM/80 SET



PROFESSIONAL IN CHARGE  
PROJECT MANAGER  
QUALITY CONTROL  
DRAWN BY

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

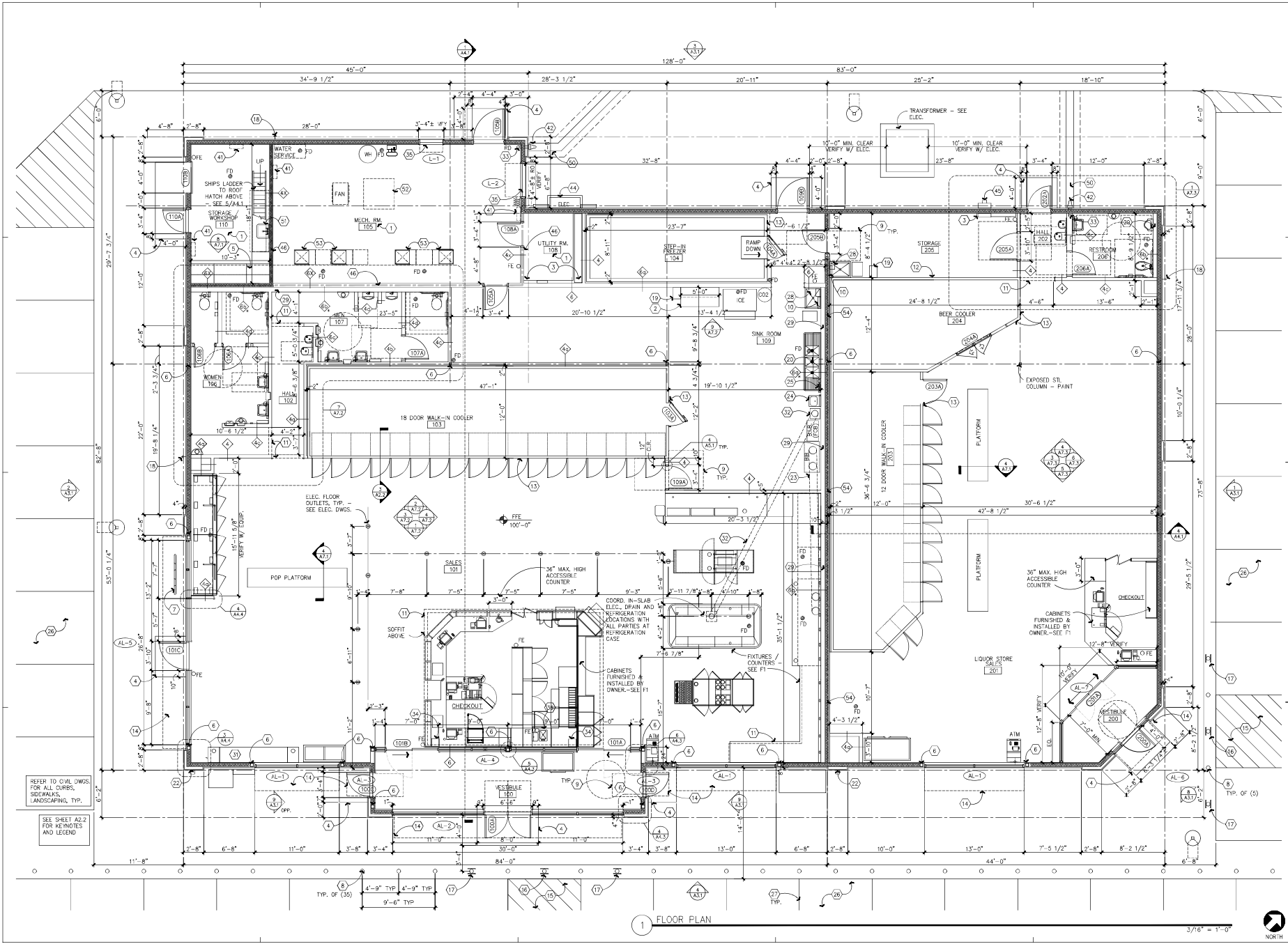


PROJECT NUMBER  
014764.40

SHEET TITLE  
GAS CANOPY ELEVATIONS AND DETAILS

SHEET NUMBER

A1.2



REFER TO CIVIL DWGS FOR ALL CURBS, SIDEWALKS, LANDSCAPING, TYP.

SEE SHEET A2.2 FOR KEYNOTES AND LEGEND

1 FLOOR PLAN



XX/XX/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

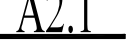


CIRCLE K STORES INC.

PROJECT NUMBER  
 014764.40

SHEET TITLE  
 FLOOR PLAN

SHEET NUMBER  
 A2.1

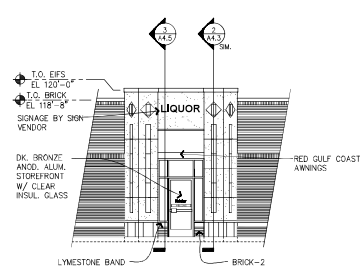


NOTES AND EXTERIOR MATERIALS LEGEND

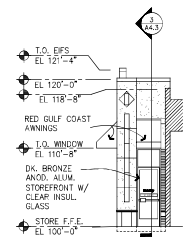
- BRICK-1 (LHM): ENDOGOT DESERT (RONSPOT) LIGHT VELOUR (MODULAR / THIN BRICK)
- BRICK-2 (DARK): ENDOGOT MEDIUM (RONSPOT) #79 (MODULAR / THIN BRICK)
- EFS (ENTRY): DRYVIT #112 "SANDLEWOOD BEIGE", SANDPEBBLE TEXTURE
- DRYVIT LYMESTONE PLAGSTER BASES, BANDS, REVEALS AND MEDALLIONS - #104 DRYVIT DRY LYMESTONE TEXTURE
- WALL CAP FLASHING (BIRD & GAS CANNERY): PREFINISHED METAL - COLOR: UNA-CLAD "MANSARD BROWN" UN/O. / "SIERRA TAN" WHERE NOTED
- ALUM. SUNSHADE CANNOPES: PREFINISHED METAL - COLOR: "DARK BRONZE" ANODIZED
- ALUM. STOREFRONT: DARK BRONZE ANODIZED

GENERAL NOTES:

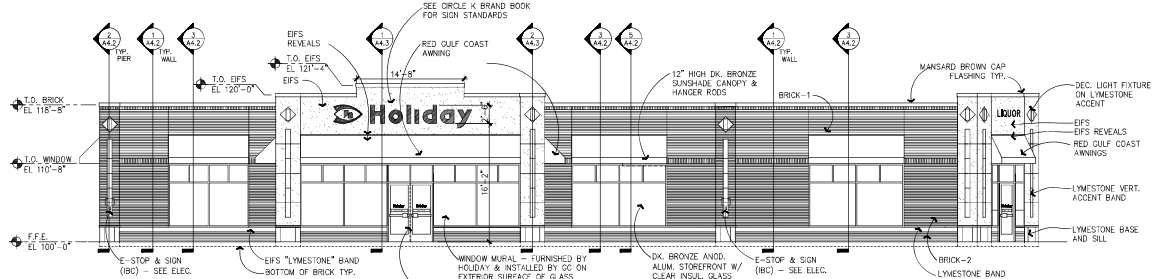
- SEPARATE PERMIT REQUIRED FOR SIGNAGE. COORD. W/ OWNER & SIGN COMPANY.
- EXTERIOR HW DOORS & FRAMES TO BE PAINTED #P50.
- REFER TO SHEET A7.1 FOR PAINT COLORS.
- PROVIDE BACKER ROD & SEALANT CONTROL JOINTS AT ALL MATERIAL CHANGES AND AT INSIDE CORNERS OF ALL PROJECTING BRICK PIERS.
- PROVIDE KNOX BOX 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.



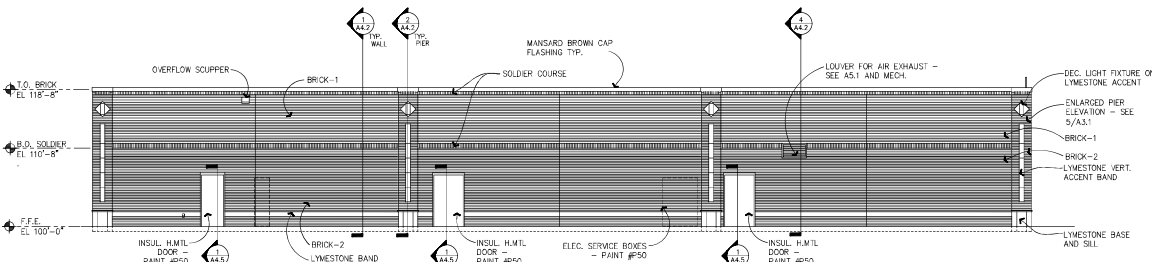
8 SOUTH-EAST ELEVATION 1/8" = 1'-0"



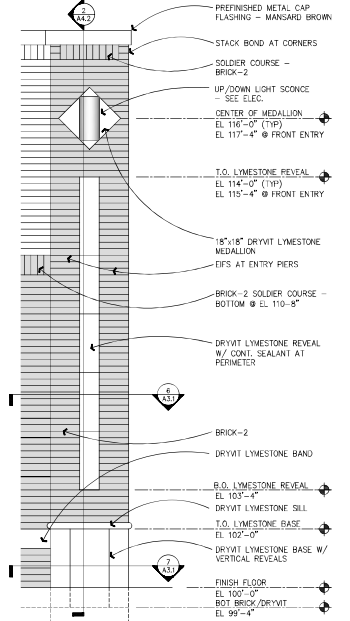
9 PARTIAL EAST ELEVATION 1/8" = 1'-0"



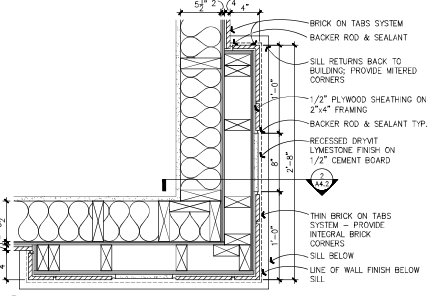
4 SOUTH ELEVATION 1/8" = 1'-0"



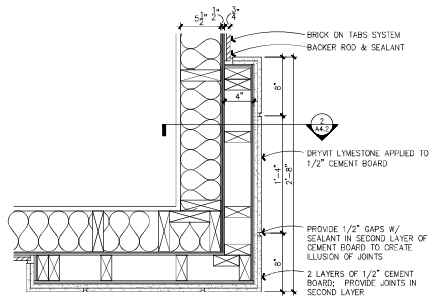
3 NORTH ELEVATION 1/8" = 1'-0"



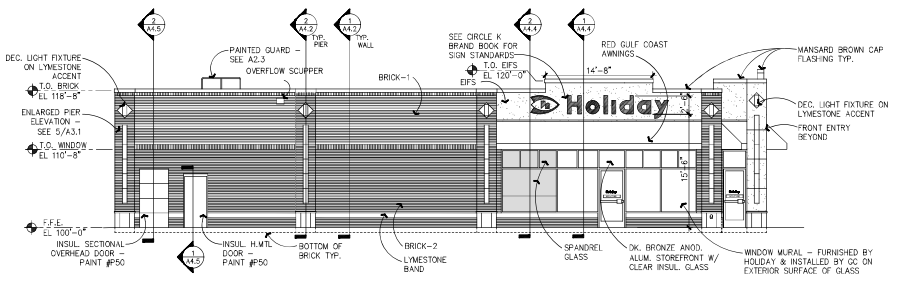
5 ENLARGED PILASTER ELEVATION 1/2" = 1'-0"



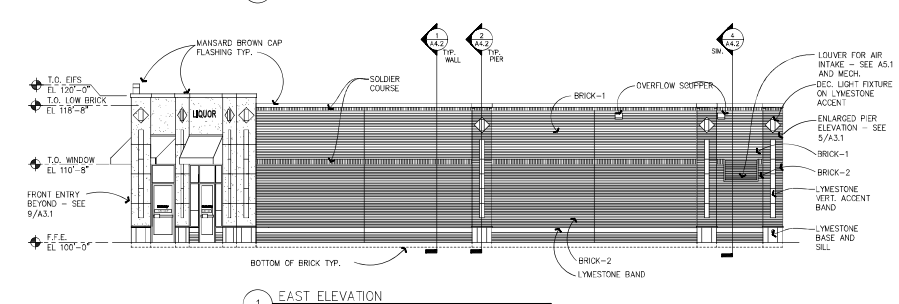
6 PLAN DETAIL @ BRICK 1 1/2" = 1'-0"



7 PLAN DETAIL @ BASE 1 1/2" = 1'-0"



2 WEST ELEVATION 1/8" = 1'-0"



1 EAST ELEVATION 1/8" = 1'-0"



XX/KX/23 PERM/BD SET



PROFESSIONAL IN CHARGE

PROJECT MANAGER

QUALITY CONTROL

DRAWN BY

PROJECT NAME  
**CIRCLE K STORES INC. STORE #650 WASKILLA ALASKA**

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



CIRCLE K STORES INC.

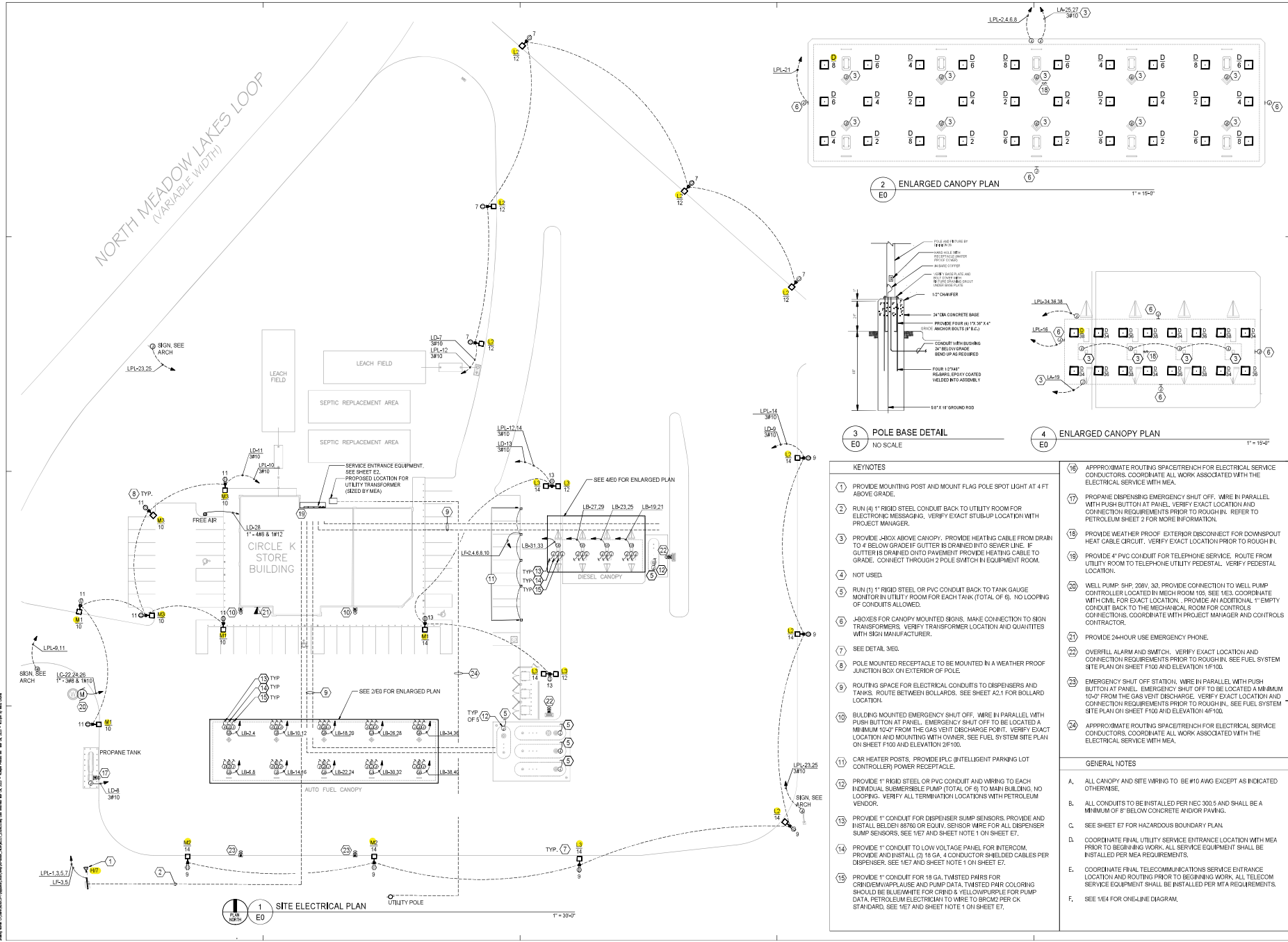
PROJECT NUMBER  
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SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

**A3.1**



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3/7/23 PERMIT 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.**

**RSA PROJECT NUMBER**

**M2221**

**SHEET TITLE**

**ELECTRICAL SITE PLAN**

**SHEET NUMBER**

**E0**







# 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	
<b>Direct Mount Luminaires</b>	
<b>Canopy Upgrade Kits (18 ga. steel, except where noted)</b>	
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	
<b>Direct Mount Junction Box/Stem Kit</b>	
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	
<b>Direct Mount Beauty Plates</b>	
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]	
<b>Pendant Mount Luminaires</b>	
<b>Pendant Mount Kits</b>	
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	
<b>Hand-Held Remote</b>	
XA-SENSREM	
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	
<b>Synapse® SimplySnap 10V Interface</b>	
DIM10-220F	
- 120V-277V	
- Requires other Synapse components to complete system	
- Refer to <a href="#">DIM10-220F</a> spec sheet for details	

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

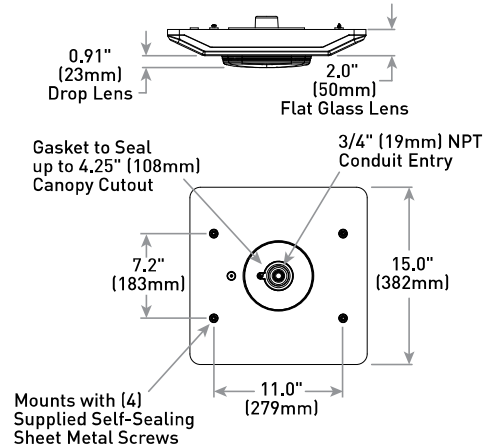
## DM Mount / DM Mount with HZ Option



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 <a href="#">Dimming spec sheet</a> for details PML Programmable Multi-Level - Available with UL voltage only - Refer to <a href="#">PML spec sheet</a> 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](http://creelighting.com) T (800) 236-6800  
Canada: [creelighting-canada.com](http://creelighting-canada.com) T (800) 473-1234

**CREE LIGHTING®**

# 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](http://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 <sup>1</sup>						
Ambient	Luminaire Mounting Surface	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Estimated <sup>3</sup> LMF	100K hr Estimated <sup>3</sup> 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

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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

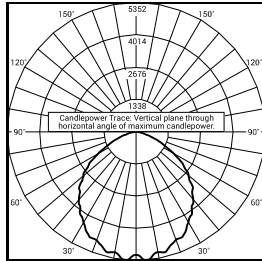
**WARNING:** Exceeding maximum operating temperature may result in thermal foldback

### Photometry

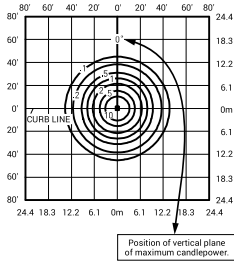
All published luminaire photometric testing performed to IES LM-79 standards.

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

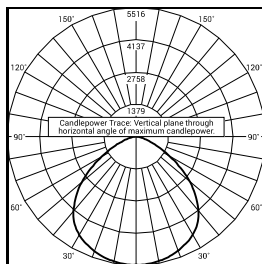
#### Drop Lens Distribution

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

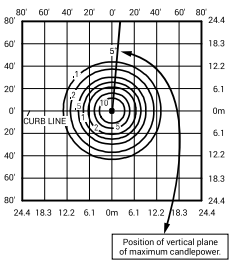
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

\*\* 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>



# 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

Type: \_\_\_\_\_

 **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 <sup>4</sup>	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)

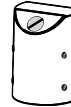
**ARCHITECTURAL JUNCTION BOX (JB)** - Cast aluminum body and extruded matching cover. One-piece EPDM cover gasket. Internal ground screw provided. 3/4" NPSM fixture mount with sealing locknut. Two 1/2" NPSM for conduit entry. For above grade installation only. Available in standard finishes.



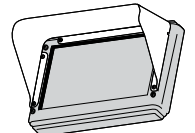
**1/2" THREADED ADAPTOR (TA)** - Machined aluminum pipe reducer adapts 3/4" pipe thread (T-stem) to 1/2" pipe thread provided by others.



**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.

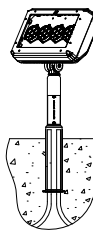


**GLARE SHIELD (GS)** - Formed 16 ga. steel. Mounts to die-cast door frame holes and may be used with polycarbonate shield accessory. Available in standard finishes.

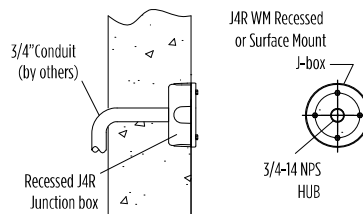


## MOUNTING BRACKETS

**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

Type: \_\_\_\_\_

 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%.

L1: OSQ-ML-B-XX-XX + OSQ-ML-B-30L-57K7-4M-UL-NM-XX  
 L2: OSQ-ML-B-XX-XX + OSQL-B-30L-57K7-4M-UL-NM-XX + OSQ-BLSLF  
 L3: OSQ-ML-B-XX-XX + OSQL-B-30L-57K7-3M-UL-NM-XX + OSQ-BLSLF

# 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

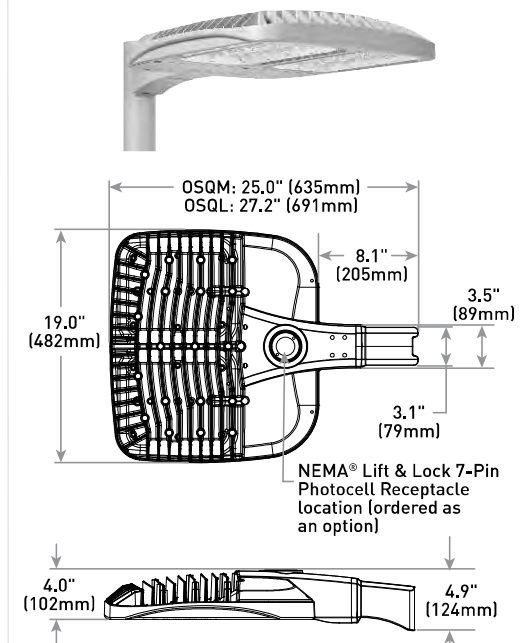
Fully assembled luminaire is composed of two components that must be ordered separately:

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

Mount (Luminaire must be ordered separately)*	
<b>OSQ-</b>	
OSQ-ML-B-AA Adjustable Arm	<b>Color Options:</b> 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 <sup>1</sup>	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 - 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

<sup>1</sup> 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](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

**CREE LIGHTING®**



**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](http://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	
<b>Twist-Lock Lighting Controller</b> 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 <a href="#">TL7-B2 spec sheet</a> for details	<b>Synapse Wireless Sensor</b> WSN-DPM - Motion and light sensor - Control multiple zones - Refer to <a href="#">WSN-DPM spec sheet</a> for details
<b>Twist-Lock Lighting Controller</b> 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 <a href="#">TL7-HVG spec sheet</a> for details	<b>SimplySNAP On-Site Controller</b> SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to <a href="#">SS450-002 spec sheet</a> for details
<b>SimplySNAP Central Base Station</b> CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to <a href="#">CBSSW-450-002 spec sheet</a> for details	<b>Building Management System (BMS) Gateway</b> BMS-GW-002 - Required for BACnet integration - Refer to <a href="#">BMS-GW-002 spec sheet</a> for details
	<b>Outdoor Antennas</b> (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 <a href="#">Outdoor antenna spec sheet</a> 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 Maintenance <sup>1</sup>						
Ambient	Optic	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF	100K hr Reported <sup>2</sup> / Estimated <sup>3</sup> LMF
5°C [41°F]	Asymmetric	1.04	1.03	1.01	0.99 <sup>2</sup>	0.97 <sup>2</sup>
	Symmetric	1.05	1.05	1.05	1.05 <sup>3</sup>	1.05 <sup>3</sup>
10°C [50°F]	Asymmetric	1.03	1.02	1.00	0.98 <sup>2</sup>	0.96 <sup>2</sup>
	Symmetric	1.04	1.03	1.03	1.03 <sup>3</sup>	1.03 <sup>3</sup>
15°C [59°F]	Asymmetric	1.02	1.01	0.99	0.97 <sup>2</sup>	0.95 <sup>2</sup>
	Symmetric	1.02	1.02	1.02	1.02 <sup>3</sup>	1.02 <sup>3</sup>
20°C [68°F]	Asymmetric	1.01	1.00	0.98	0.96 <sup>2</sup>	0.94 <sup>2</sup>
	Symmetric	1.01	1.01	1.01	1.01 <sup>3</sup>	1.01 <sup>3</sup>
25°C [77°F]	Asymmetric	1.00	0.99	0.97	0.95 <sup>2</sup>	0.93 <sup>2</sup>
	Symmetric	1.00	1.00	1.00	1.00 <sup>3</sup>	1.00 <sup>3</sup>

<sup>1</sup> 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.  
<sup>2</sup> 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.  
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

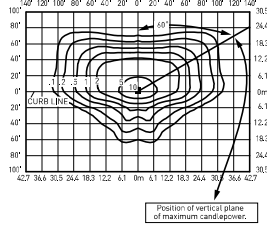
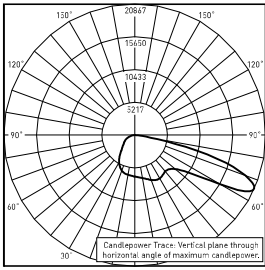
**Accessories**

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

**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**

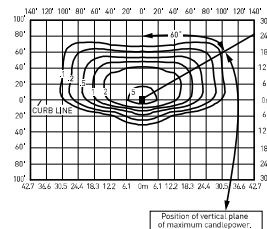
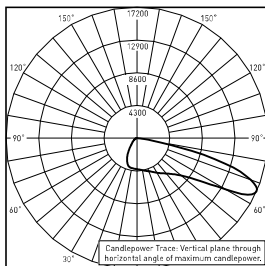


RESTL Test Report #: PL16051-001A  
OSQL-B-30L-40K7-3M-UL  
Initial Delivered Lumens: 30,908

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

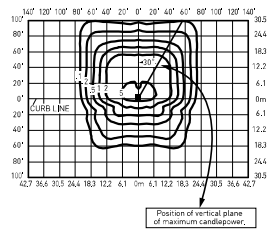
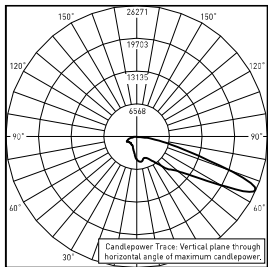
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with 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**

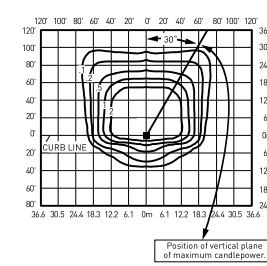
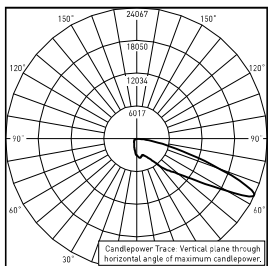


RESTL Test Report #: PL16065-001B  
OSQL-B-30L-40K7-4M-UL  
Initial Delivered Lumens: 30,752

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

Type M1: OSQ-ML-B-XX-XX + OSQM-B-16L-57K7-3M-UL-NM-XX  
 Type M2: OSQ-ML-B-XX-XX + OSQM-B-16L-57K7-3M-UL-NM-XX + OSQ-BLSMF  
 Type M3: OSQ-ML-B-XX-XX + OSQM-B-16L-57K7-4M-UL-NM-XX

# 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

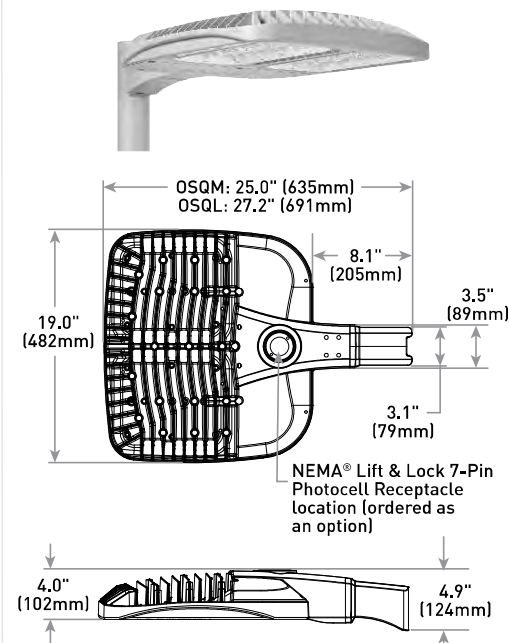
Fully assembled luminaire is composed of two components that must be ordered separately:

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

Mount (Luminaire must be ordered separately)*	
<b>OSQ-</b>	
OSQ-ML-B-AA Adjustable Arm	<b>Color Options:</b> 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 <sup>1</sup>	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

<sup>1</sup> 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](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

**CREE LIGHTING®**

**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](http://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-ANT3360
  - 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 Maintenance<sup>1</sup>**

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

<sup>1</sup> 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.  
<sup>2</sup> 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.  
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

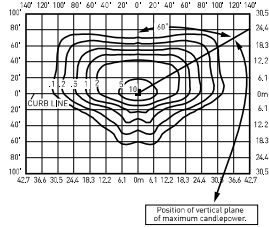
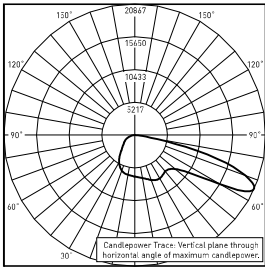
**Accessories**

Field-Installed	Hand-Held Remote	Shorting Cap
<b>Backlight Shield (Front Facing Optics)</b> 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
<b>Backlight Shield (Rotated Optics)</b> OSQ-BLSMR (Medium) OSQ-BLSLR (Large)		
<b>Bird Spikes</b> OSQ-MED-BRDSPK OSQ-LG-BRDSPK		

**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**

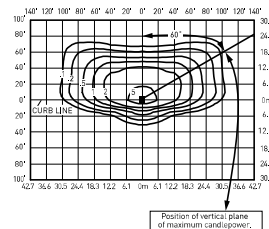
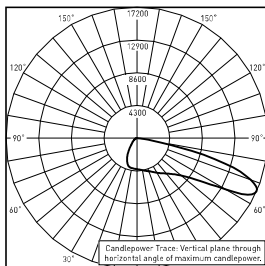


RESTL Test Report #: PL16051-001A  
OSQL-B-30L-40K7-3M-UL  
Initial Delivered Lumens: 30,908

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

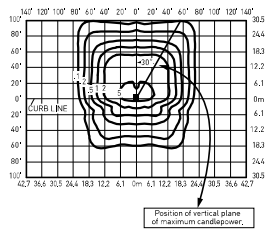
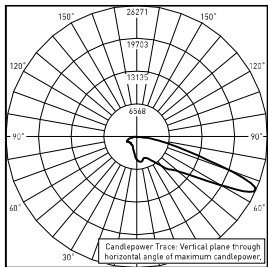
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with 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**

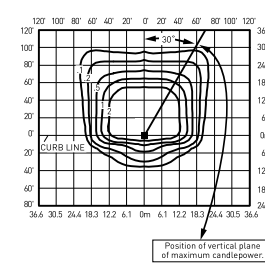
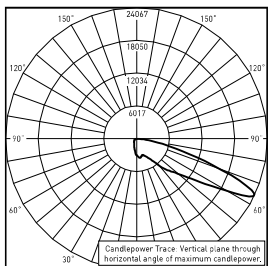


RESTL Test Report #: PL16065-001B  
OSQL-B-30L-40K7-4M-UL  
Initial Delivered Lumens: 30,752

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



### 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)

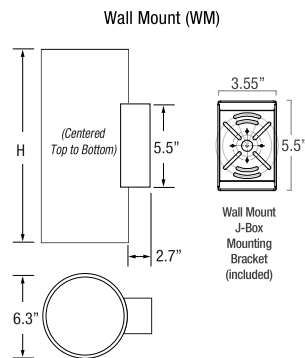
**Dimming:** Standard: 0-10V, 1% Dimming, Optional: ELV, TRIAC, dim to off, DMX, DALI

**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%.



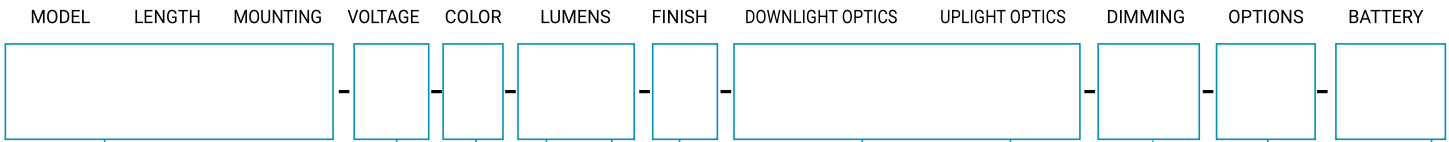
US Commercial Lighting Manufacturer Since 1982



# FCC600 Up/Down or Up, Standard Drivers without Battery Backup

## PRODUCT CODE

EXAMPLE: FCC610W-UNV-927-505L-BKE-D15U15-ET



### MODEL

<b>FCC610W</b>	10.95" Height (1 Integral Driver Only)
<b>FCC612W</b>	12.95" Height (1 Integral Driver Only)
<b>FCC614W</b>	14.95" Height (1 Integral Driver Only)
<b>FCC616W</b>	16.95" Height (1 Integral Driver Only)
<b>FCC618W</b>	18.95" Height
<b>FCC620W</b>	20.95" Height
(All above are Wall Mount Standard)	

### DOWN LUMENS (nominal) UP LUMENS

NO	No Light Option	
5	500 lm	<b>05L</b>
10	1000 lm	<b>10L</b>
15	1500 lm	<b>15L</b>
20	2000 lm	<b>20L</b>
25	2500 lm	<b>25L</b>
30	3000 lm	<b>30L</b>
35	3500 lm	<b>35L</b>
40	4000 lm	<b>40L</b>
45	4500 lm	<b>45L</b>
50	5000 lm	<b>50L</b>

**(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

<b>D15</b>	Spot (15°) (15L Max)	<b>U15</b>
<b>D25</b>	Narrow Flood (25°)	<b>U25</b>
<b>D40</b>	Mid Flood (40°)	<b>U40</b>
<b>D50</b>	Flood (50°)	<b>U50</b>
<b>D72</b>	Wide Flood (72°)	<b>U72</b>

### WITH SOFT FIELD LENS (Below)

<b>D15S</b>	Spot (15°) (15L Max)	<b>U15S</b>
<b>D25S</b>	Narrow Flood (25°)	<b>U25S</b>
<b>D40S</b>	Mid Flood (40°)	<b>U40S</b>
<b>D50S</b>	Flood (50°)	<b>U50S</b>
<b>D72S</b>	Wide Flood (72°)	<b>U72S</b>

### DIMMING

<b>ET</b>	ELV or TRIAC Driver (120V Phase Dimming w/ UNV Driver) (20L-45L Only)
<b>LD</b>	0-10V Dimming, 1% (Standard)
<b>ET2</b>	ELV or TRIAC Drivers (Qty. 2) (120V Phase Dimming w/ UNV Drivers) (20L-45L Only)
<b>LD2</b>	0-10V Dimming, 1% (Qty. 2)

### OPTIONS

<b>CV</b>	Cut-Off Visor (Down Only)
-----------	---------------------------

### BATTERY

<b>N/A</b>	(Leave Blank)
------------	---------------

### VOLTAGE

<b>UNV</b>	Universal 120-277 Volt AC
<b>347V</b>	347 Volt AC

### COLOR

<b>927</b>	(93CRI) 2700K
<b>930</b>	(93CRI) 3000K
<b>935</b>	(93CRI) 3500K
<b>940</b>	(93CRI) 4000K

### FINISH

<b>BKE</b>	Black (AAMA 2604)
<b>BRE</b>	Bronze (AAMA 2604)
<b>SLE</b>	Silver (AAMA 2604)
<b>WHE</b>	White (AAMA 2604)
<b>CCE</b>	Custom Color (AAMA 2604)



# 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)

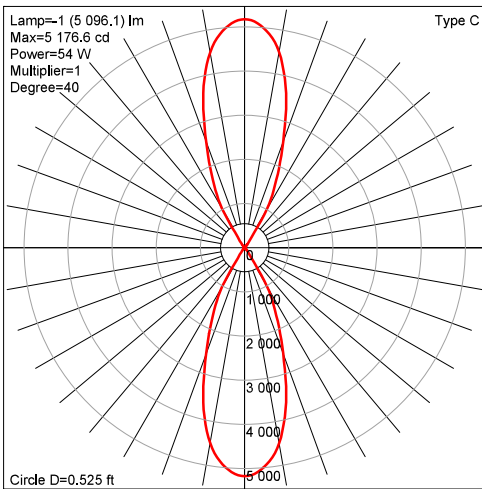
IES Multiplier	
Color	Multiplier
927	0.93
930	0.97
935	0.99
940	1.00

\*83CRI≤1.15 Consult factory.

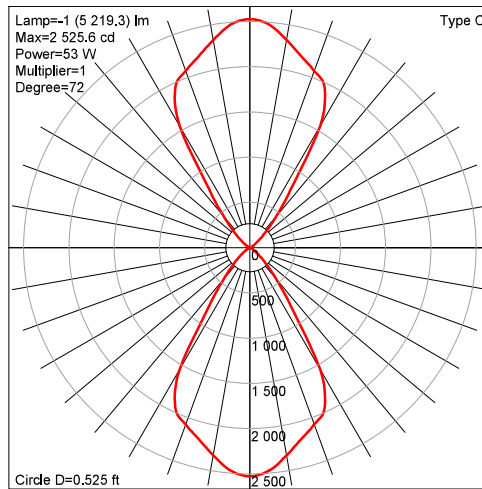
TRIAC & ELV Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Glyder GLV-600
	Diva DVLV-600P
	Diva DV-600P
	Diva DVELV-600P(303)
	Maestro MALV-600
	Nova T NT-1000
	Nova T NTELV-600
Leviton	Skylark SLV-600P
	RadioRA2-10ND
	SureSlide 6633
	Illumatech IPE04

0-10V Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Diva DVSTV-XX
	Diva DVSTV-453PH-WH1
Leviton	Illumatech 010-IP710-DLZ

## PHOTOMETRICS



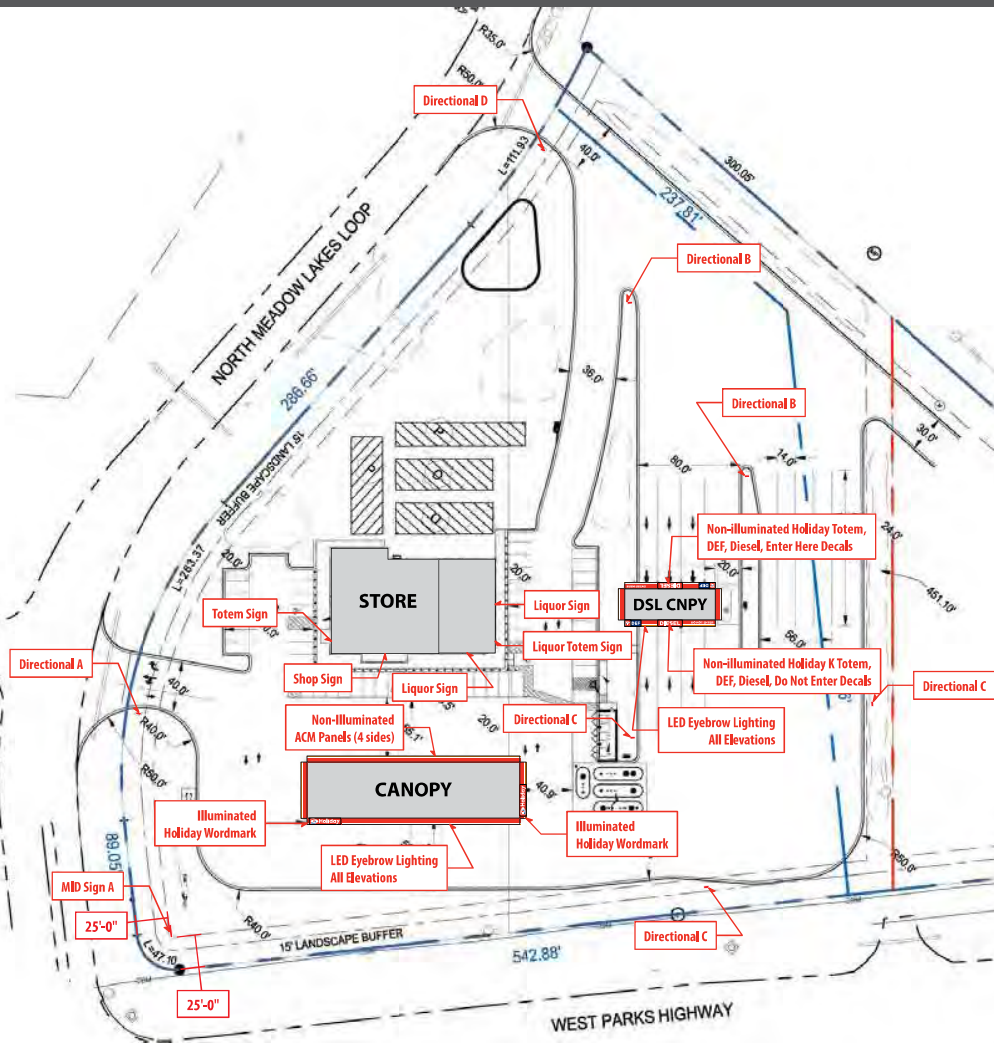
Circle D=0.525 ft  
 Manufacturer: FC Lighting  
 Luminaire catalog: F002550FCC6184K50LD40U40



Circle D=0.525 ft  
 Manufacturer: FC Lighting  
 Luminaire catalog: F002553FCC6184K50LD72U72



GEORGE PARKS HIGHWAY & N MEADOW LAKES



**CORPORATE IDENTIFICATION SOLUTIONS**

<b>CUSTOMER</b>	HOLIDAY STORES
<b>SITE NUMBER</b>	0000

<b>LOCATION</b>	WASILLA, AK
<b>ACCOUNT REP</b>	BEN DEHAVES

<b>DRAWN BY</b>	MH
<b>DATE</b>	09/12/22
<b>REVISION</b>	02
<b>SCALE</b>	NTS

<b>CORPORATE ID SOLUTIONS</b>	5563 N ELSTON AVE. CHICAGO, IL 60630 P: 773-763-9600   F: 773-763-9606 CORPORATEIDSOLUTIONS.COM
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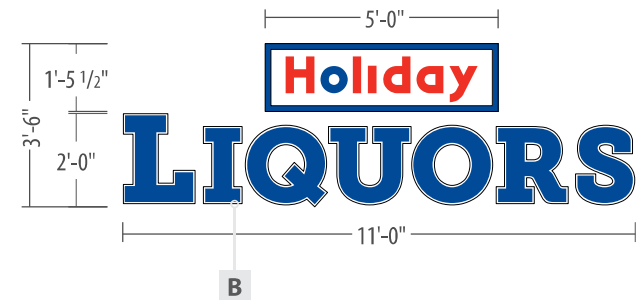
PROPOSED



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



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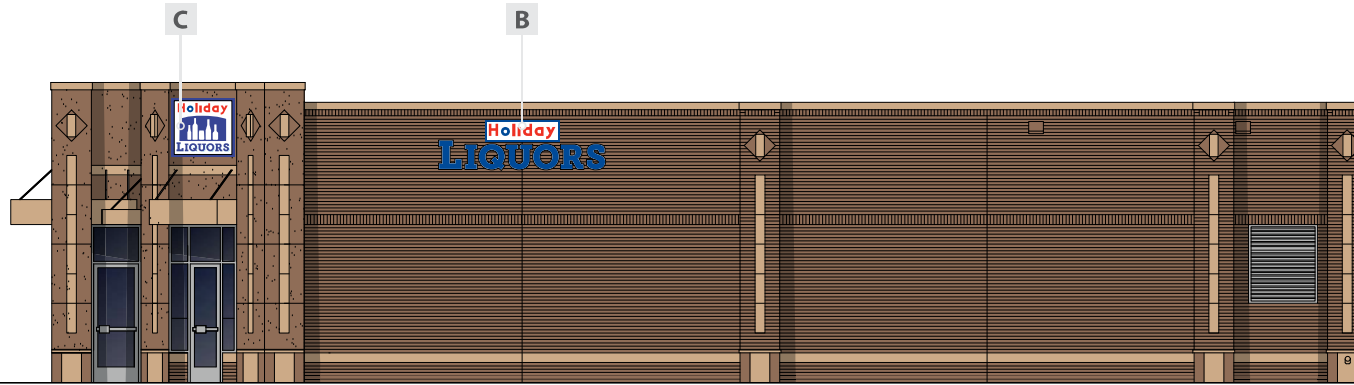
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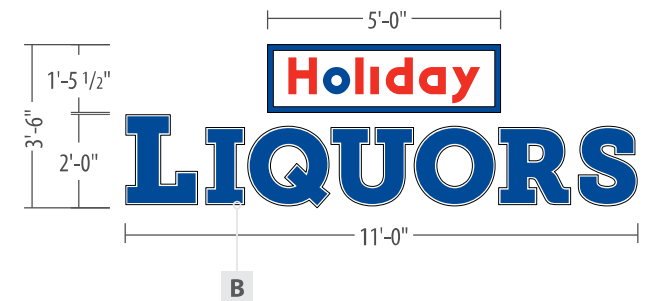
PROPOSED



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	



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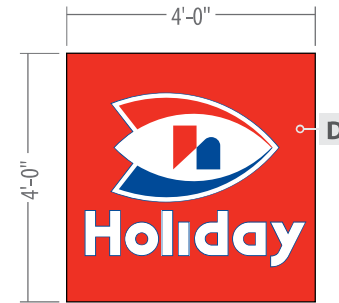
PROPOSED



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"	<b>63.4v SF</b>
B	Illuminated Holiday Liquors Sign	2	3'-6" x 11'-0"	<b>38.5 SF</b>
C	Illuminated Holiday Liquors Totem	1	4'-0" x 4'-0"	<b>16.0 SF</b>
C	Illuminated Holiday Totem Sign	1	4'-0" x 4'-0"	<b>16.0</b>



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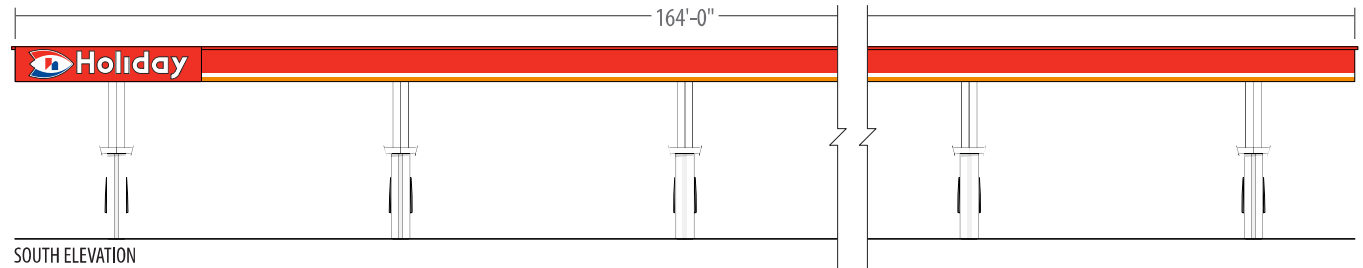
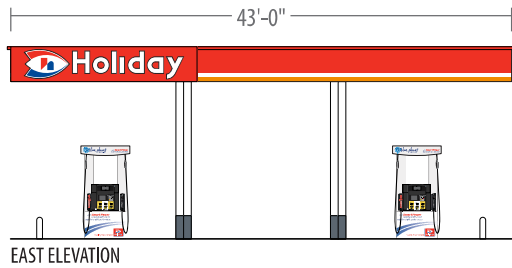
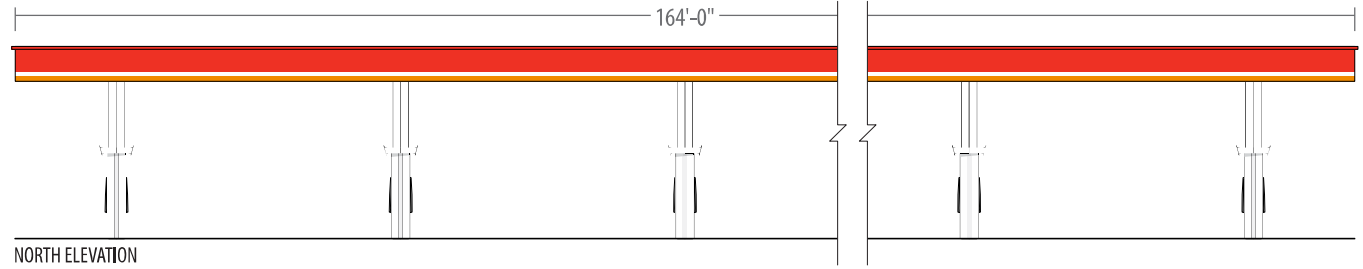
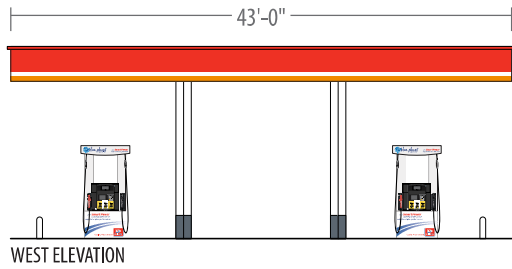
**SCALE**  
NTS

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**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**

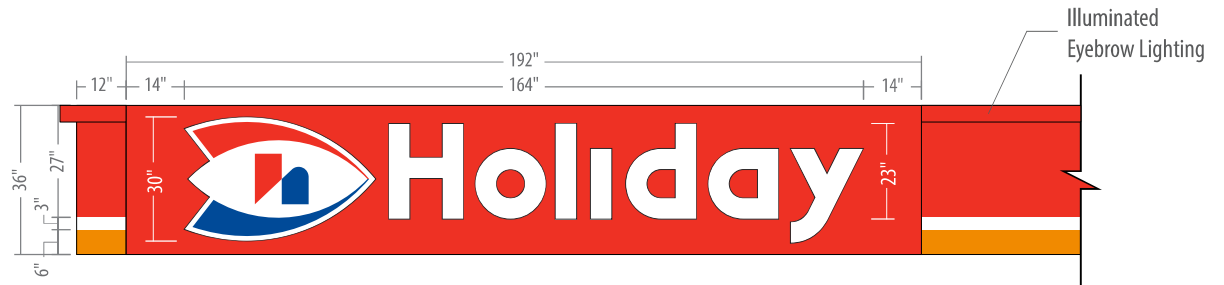
Gas Island Canopy Fascia	3'-0" x 43'-0"	129.0 SF	26.5% of available space
Illuminated Holiday Letters	30" x 164"	34.2 SF	

**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**

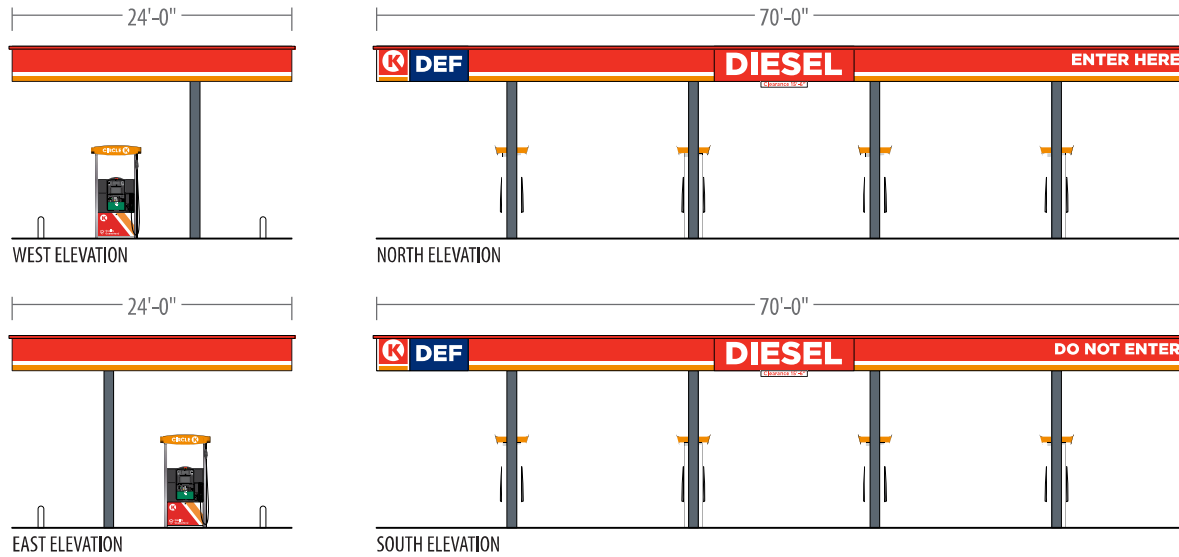
<b>CUSTOMER</b>	HOLIDAY STORES
<b>SITE NUMBER</b>	0000

<b>LOCATION</b>	WASILLA, AK
<b>ACCOUNT REP</b>	BEN DEHAYES

<b>DRAWN BY</b>	MH
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<b>DATE</b>	09/12/22
<b>SCALE</b>	NTS

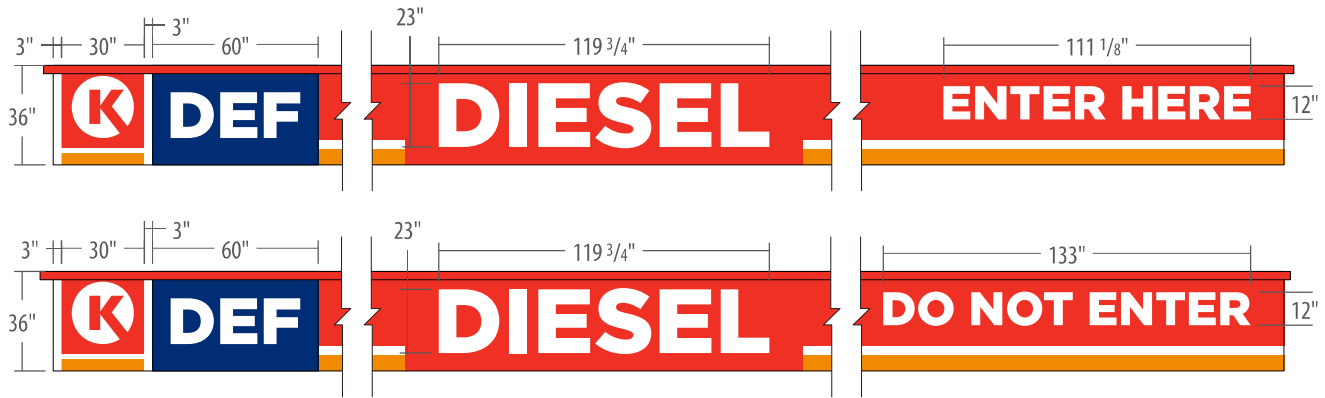
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**NEW CONSTRUCTION**

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

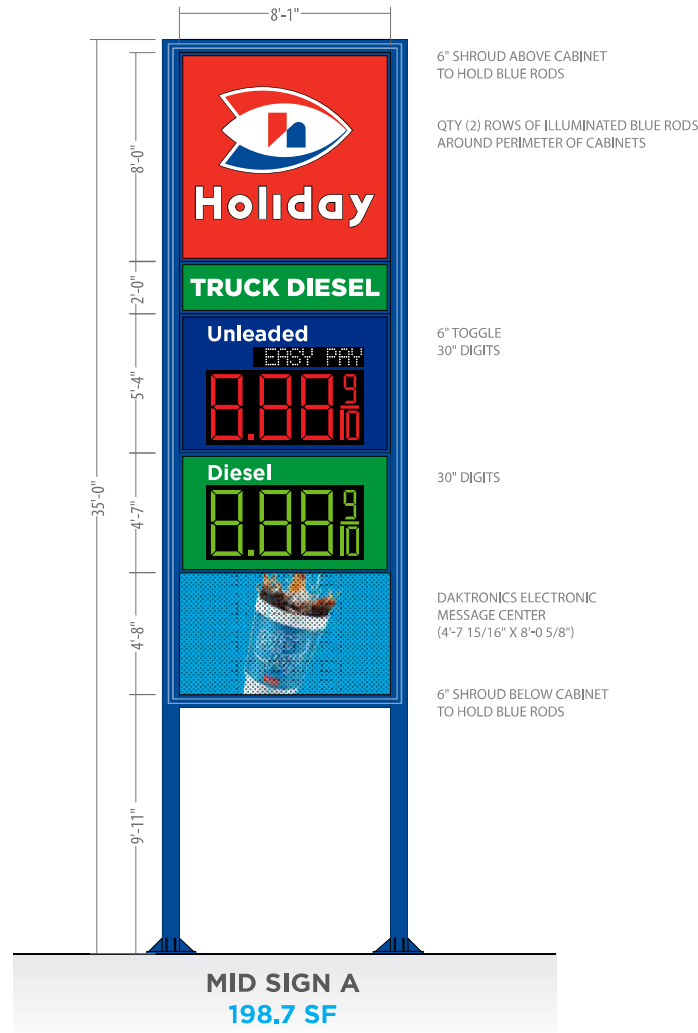
**LOCATION**  
WASILLA, AK  
**ACCOUNT REP**  
BEN DEHAYES

**DRAWN BY**  
MH  
**DATE**  
09/12/22  
**REVISION**  
02  
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**SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_





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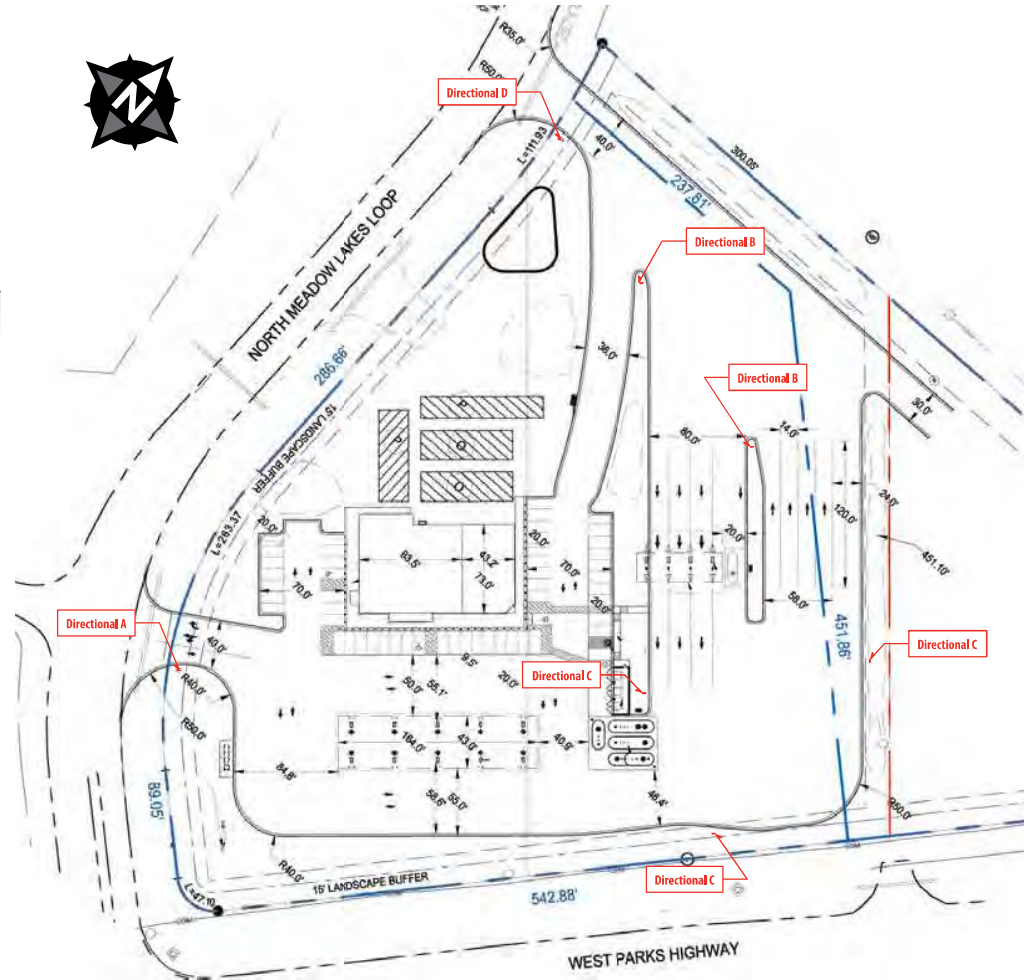
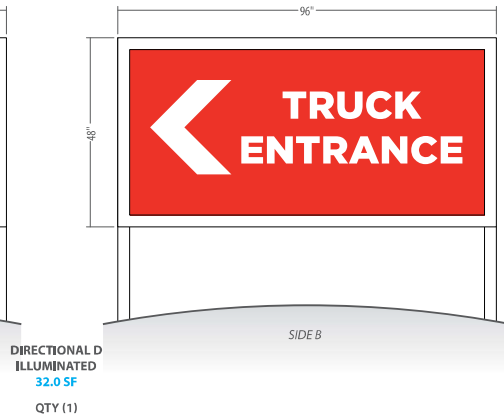
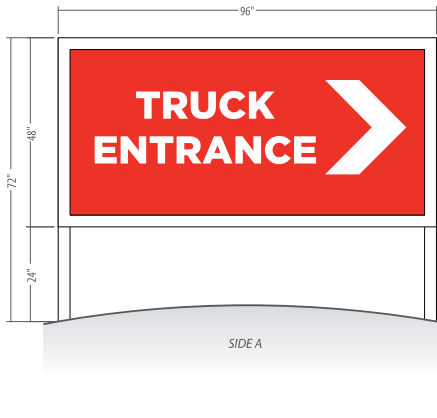
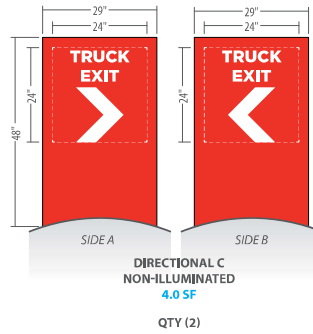
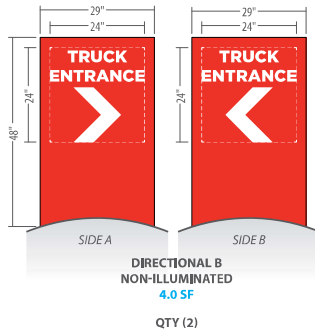
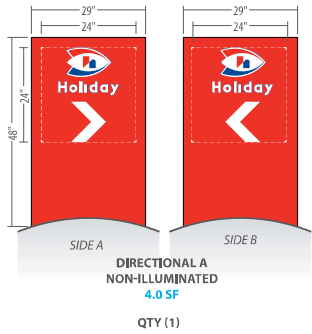
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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

\*\*\* ALL DIRECTIONALS INSTALLED \*\*\*  
ON BERMS TO GET ABOVE SNOW LINE



**CORPORATE IDENTIFICATION SOLUTIONS**

**CUSTOMER**  
HOLIDAY STORES

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**APPENDIX 3:  
ADEC STORM WATER  
APPROVAL**

The page features a white background with two large, overlapping geometric shapes in the bottom corners. On the left, a light gray triangle points towards the top right. On the right, an orange triangle points towards the top left. The two triangles meet at a diagonal line that runs from the bottom left towards the top right.



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](http://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](mailto: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	<b>Email:</b> 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 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**



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## **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.

## 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%
<b>Total</b>	<b>293,232</b>	<b>100%</b>

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%
<b>Total</b>	<b>293,232</b>	<b>100%</b>

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:

$$C_{\text{post}} = .624 \times 0.90 + 0.376 \times 0.30 = 0.674$$

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 event (8,405 cubic feet). If a larger storm event occurs, storm

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. BURIED UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, IDENTIFYING, AND WORKING AROUND ALL UTILITIES WITHIN THE PROJECT LIMITS AT NO ADDITIONAL COST TO THE OWNER. CALL FOR LOCATES PRIOR TO EXCAVATION, ALASKA DIALOGUE 1-800-478-3121.

2. IF NOT DETAILED IN THESE DRAWINGS AND SPECIFICATIONS, ALL APPLICABLE CONSTRUCTION SHALL BE BUILT IN ACCORDANCE WITH ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (ADOT&P) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSHC), 2017 EDITION. WATER AND SEWER UTILITIES SHALL BE BUILT IN ACCORDANCE WITH ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC) REGULATIONS 18 AAC 72 WASTEWATER DISPOSAL, 18 AAC 80 DRINKING WATER, AND MUNICIPAL.

## 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" BY NORTHERN GEOTECHNICAL ENGINEERING, INC. DATED DECEMBER 2021 FOR EXCAVATION, BACKFILL, AND PAVEMENT SECTION RECOMMENDATIONS.

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 SOUND, TIGHT, DURABLE PEBBLES OR ROCK FRAGMENTS OF UNIFORM QUALITY, FREE FROM CLAY BALLS, VEGETABLE MATTER, OR OTHER DELETERIOUS MATERIALS.

D-1 BASE COURSE GRADATION:	PERCENT PASSING
SIZE	100
1 1/2"	70-100
3/8"	50-80
No. 4	35-65
No. 8	20-50
No. 50	6-30
No. 200	0-6

C-1 BASE COURSE GRADATION:	PERCENT PASSING
SIZE	100
1 1/2"	70-100
3/8"	50-80
No. 4	45-75
No. 8	30-60
No. 16	20-42
No. 50	6-30
No. 200	0-6

SUBBASE COURSE  
CONFORMING TO ADOT&P SSC SECTION 703-2.09. HARD, DURABLE PARTICLES OR FRAGMENTS OF STONE OR GRAVEL, DO NOT USE MATERIALS THAT BREAK UP WHEN ALTERNATELY FROZEN AND THAWED OR WETTED AND DRIED. DO NOT INCLUDE MUCK, FROZEN MATERIAL, ROOTS, SOD, OR OTHER DELETERIOUS MATERIALS.

C SUBBASE COURSE GRADATION:	PERCENT PASSING
SIZE	100
No. 1	100
No. 4	20-43
No. 16	6-30
No. 50	0-6
No. 200	0-6

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:

SIZE	PERCENT PASSING
4"	100
No. 4	10-70
No. 8	22-80
No. 50	2-30
No. 200	0-8

NON-FROST SUSCEPTIBLE (NFS) FILL  
AGGREGATE CONTAINING NO MUCK, FROZEN MATERIAL, ROOTS, SOD OR OTHER DELETERIOUS MATERIAL AND WITH A PLASTICITY INDEX NOT GREATER THAN 6 AS TESTED BY ASTM 204 AND ASTM 205 MEETING THE FOLLOWING GRADATION:

SIZE	PERCENT PASSING
No. 4	30-70
No. 200	0-6, DETERMINED ON 3-INCH MINUS PORTION OF SAMPLE.

CEO-FABRIC  
TYPE A, CLASS 2 PER GEOTECHNICAL REPORT

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.

-DRAWINGS 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.

-WELL LOG WITH FLOW LOG DATA.

-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 AWWA C654. 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. THE PUMP SHALL BE TAKEN OFF WITH LESS THAN 1 PPM CHLORINE. THEREAFTER, WHICH TWO SAMPLES SHALL BE TAKEN NOT LESS THAN 30 MINUTES APART AND TESTED FOR THE PRESENCE OF COLIFORM BACTERIA. SUBMIT WATER SAMPLES TO ADES LABORATORY FOR TESTING. IF 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 EDITIONS OF AWWA C501 AND C654 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 SEWERATION AND THE WATER MAIN.

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 THE SHORTEST PROPER INSULATION ANY ISOLATION VALVES, COUPLINGS AND UNIONS PRIOR TO PROVIDING SERVICE TO THE BUILDING.

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.

## WATER PIPE

HIGH DENSITY POLYETHYLENE PIPE (HDPE) AND FITTINGS ARE TO BE MANUFACTURED IN ACCORDANCE WITH AWWA C901 WITH THE ADDITIONAL SPECIFICATION THAT THE HDPE IS TO BE MANUFACTURED FROM PE4710 POLYETHYLENE COMPOUNDS THAT MEET OR EXCEED ASTM D3350 CELL CLASSIFICATION 445974. HDPE PIPE AND FITTING MATERIAL COMPOUND IS TO CONTAIN COLOR AND LITRACOLET (UV) STABILIZER MEETING OR EXCEEDING THE REQUIREMENTS OF CODE C PER ASTM D3350. ELECTROFUSION FITTINGS WILL NOT BE ALLOWED. ALL FITTINGS ARE TO HAVE PRESSURE CLASS RATINGS NOT LESS THAN THE PRESSURE CLASS RATING OF THE PIPE TO WHICH THEY ARE JOINED.

DUCTILE IRON FITTINGS  
AWWA C153.

GASKETS, LUBRICANT FOR PUSH ON MECH. JOINTS  
AWWA 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 800-LB AVERAGE TENSILE BREAK LOAD. SPLICE CONNECTIONS TO BE 3M DBR WATER TIGHT CONNECTORS.

## WATER SYSTEM SUBMITTALS

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, TEMPORARY CONSTRUCTION OF EVERY NATURE AND ALL OTHER SERVICE 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, ADEQ/AMWA A100 WATER WELLS, AND AWWA 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. THE WELL SHALL BE DRILLED BELOW EXISTING GRADE AS REQUIRED TO MEET THE MINIMUM FLOW RATES AND DRINKING WATER QUALITY STANDARDS. THE WELL IS ESTIMATED TO BE 125-FT DEEP. SITE CONDITIONS WILL DETERMINE THE FINAL DRILLED DEPTH AS DETERMINED BY THE DRILLING CONTRACTOR. THE WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF ADEC AS APPLICABLE TO PUBLIC WATER SYSTEMS. THE DEPTH OF WELL AND NUMBER OF SCREENS SHALL BE DETERMINED TO PROVIDE A GUARANTEED CAPACITY OF 50 GALLONS PER MINUTE OF WATER SUITABLE FOR DOMESTIC USE. APPROVED METHODS OF CONSTRUCTION INCLUDE AIR ROTARY WITH DRILL THROUGH CASING HAMMER USING DRILLING MUD FOR CONVENTIONAL FLUID ROTARY DRILLING OR REVERES CIRCULATION DRILLING. CONTRACTOR SHALL PROVIDE PUMP TEST AND PERFORM ALL REQUIRED WATER TESTING FOR AN ADEC PUBLIC WATER SYSTEM.

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

JOINTS USING JOINTS SHALL BE WELDED WATER TIGHT AND STRUCTURALLY SOUND, IN ACCORDANCE WITH AWWA 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 455555 5 HP SUBMERSIBLE PUMP WITH 200V MOTOR

## WATER SUPPLY WELL SUBMITTALS

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.

-DRAWINGS 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.

-WELL LOG WITH FLOW LOG DATA.

-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 AWWA C654. 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. THE PUMP SHALL BE TAKEN OFF WITH LESS THAN 1 PPM CHLORINE. THEREAFTER, WHICH TWO SAMPLES SHALL BE TAKEN NOT LESS THAN 30 MINUTES APART AND TESTED FOR THE PRESENCE OF COLIFORM BACTERIA. SUBMIT WATER SAMPLES TO ADES LABORATORY FOR TESTING. IF 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 EDITIONS OF AWWA C501 AND C654 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 SEWERATION AND THE WATER MAIN.

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 THE SHORTEST PROPER INSULATION ANY ISOLATION VALVES, COUPLINGS AND UNIONS PRIOR TO PROVIDING SERVICE TO THE BUILDING.

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.

THE OWNER'S REPRESENTATIVE SHALL INSPECT THE PIPE INSULATION PRIOR TO BACKFILLING. THEY SHALL ALSO INSPECT THE SERVICE PIPING INDOORS SUCH AS THE FRESH AIR 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 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  
SHALL BE BUILT IN ACCORDANCE WITH PLAN DETAILS

## DUCTILE IRON PIPE

AWWA C151, THICKNESS CLASS 51 OR 52, CEMENT MORTAR LINED, PUSH ON TYTON JOINT DUCTILE IRON PIPE. CELEM LINING SHALL CONFORM TO AWWA C104.

## DUCTILE IRON FITTINGS

AWWA C153.

GASKETS, LUBRICANT FOR PUSH ON MECH. JOINTS  
AWWA 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 WATER TIGHT COUPLINGS  
FERROD BRAND, MESSON BRAND, OR APPROVED ALTERNATIVE

## FINE GRADED SEWER ROCK

SEWER ROCK SHALL MEET THE FOLLOWING GRADATION:

SIZE	PERCENT PASSING
1 1/2"	90-100
3/4"	0-100
1/2"	0-10
No. 200	0-1

## SAND LINER FILL 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:

SIZE	PERCENT PASSING
No. 10	100
No. 20	60-90
No. 40	25-50
No. 60	0-15
No. 200	0-5

## WASTEWATER SUBMITTALS

SUBMIT:  
-MANUFACTURER SUBMITTAL CUT SHEETS FOR ALL MATERIALS

-GRADATIONS TESTING AND SUPPLIER FOR ALL SOLIDS 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

- OBTAINED FROM AN APPROVED SOURCE.
- MINIMUM COMPRESSIVE STRENGTH (FC) OF 3500 PSI AT 28 DAYS.
- MINIMUM OF (6) BAGS OF PORTLAND CEMENT PER YARD.
- MAXIMUM WATER CONTENT RATION OF 5.75 GAL/SACK
- SUMP RANGE OF 2-4 INCHES
- AIR-ENTRANMENT RANGE OF 4-7%
- COARSE AGGREGATE NO. 67 (ASHTO GRADATION)
- FINE AGGREGATE SHALL CONFORM TO ASHTO M-6 GRADATION.
- CONCRETE FOR EXTERIOR SLABS SHALL CONTAIN 0.1% BY VOLUME "GENESIS FIBER" COLLATED FIBRILLATED POLYPROPYLENE FIBER PER CUBIC YARD OF CONCRETE. THE FIBER SHALL BE THOROUGHLY MIXED INTO THE CONCRETE IN TRANSIT TO THE SITE, IN ACCORDANCE WITH THE FIBER MANUFACTURER'S RECOMMENDATIONS.
- NO WATER SHALL BE ADDED TO THE CONCRETE ON SITE. ADDING WATER ON SITE WILL RESULT IN IMMEDIATE REJECTION OF THE CONCRETE.
- ALTERNATE MIX DESIGNS WILL BE CONSIDERED UPON SUBMITTING TO THE ENGINEER.

AD MIXTURES  
AN AIR ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR CONCRETE WORK WHICH IS TO BE EXPOSED TO EARTH OR WEATHER.

CHEMICAL AD MIXTURES FOR CONCRETE SHALL CONFORM TO ASTM C649.

MINERAL COLORANT COLORANT  
COLOR AD MIXTURES 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. A MINIMUM LAP FOR ALL BARS SHALL BE 24". CONCRETE COVER OVER REINFORCING SHALL BE 3" FOR CONCRETE CAST AGAINST EARTH. CONCRETE COVER FOR FORMED CONCRETE THAT WILL BE EXPOSED TO WEATHER OR EARTH SHALL BE 2" MINIMUM FOR NO. 6 THROUGH NO. 18 BARS AND 1 1/2" MINIMUM FOR NO. 4 BARS AND SMALLER. INCLUDING WELDED WIRE FABRIC (WWF), OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF NOT LESS THAN 3/4".

## EXPANSION JOINT SEALER

AFTER CONSTRUCTION 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 IRC, 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 ALLOWABLE. 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 OBTAIN 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 DEFAACEMENT 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 FROM EACH TRUCKLOAD. 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-ENTRANMENT 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

SUBMIT 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 13 1/2" IN LIGHT DUTY AREAS AND 24" IN HEAVY DUTY AREAS ARE 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(D)-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.

CAST-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 AND NO GLASS BEADS ARE REQUIRED. COLORS MATCH ADOT&P REQUIREMENTS AND SHALL BE WHITE FOR LANE STRIPING AND BLUE FOR HANDICAP AND NO PARKING LANES.

## COMMON ABBREVIATIONS

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||
||







155 BIODARK STREET  
KENAI, ALASKA 99611  
(907) 283-3563  
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3/1/23 PSM/MSJ

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

**CIVIL SITE  
PLAN**

SHEET NUMBER

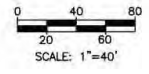
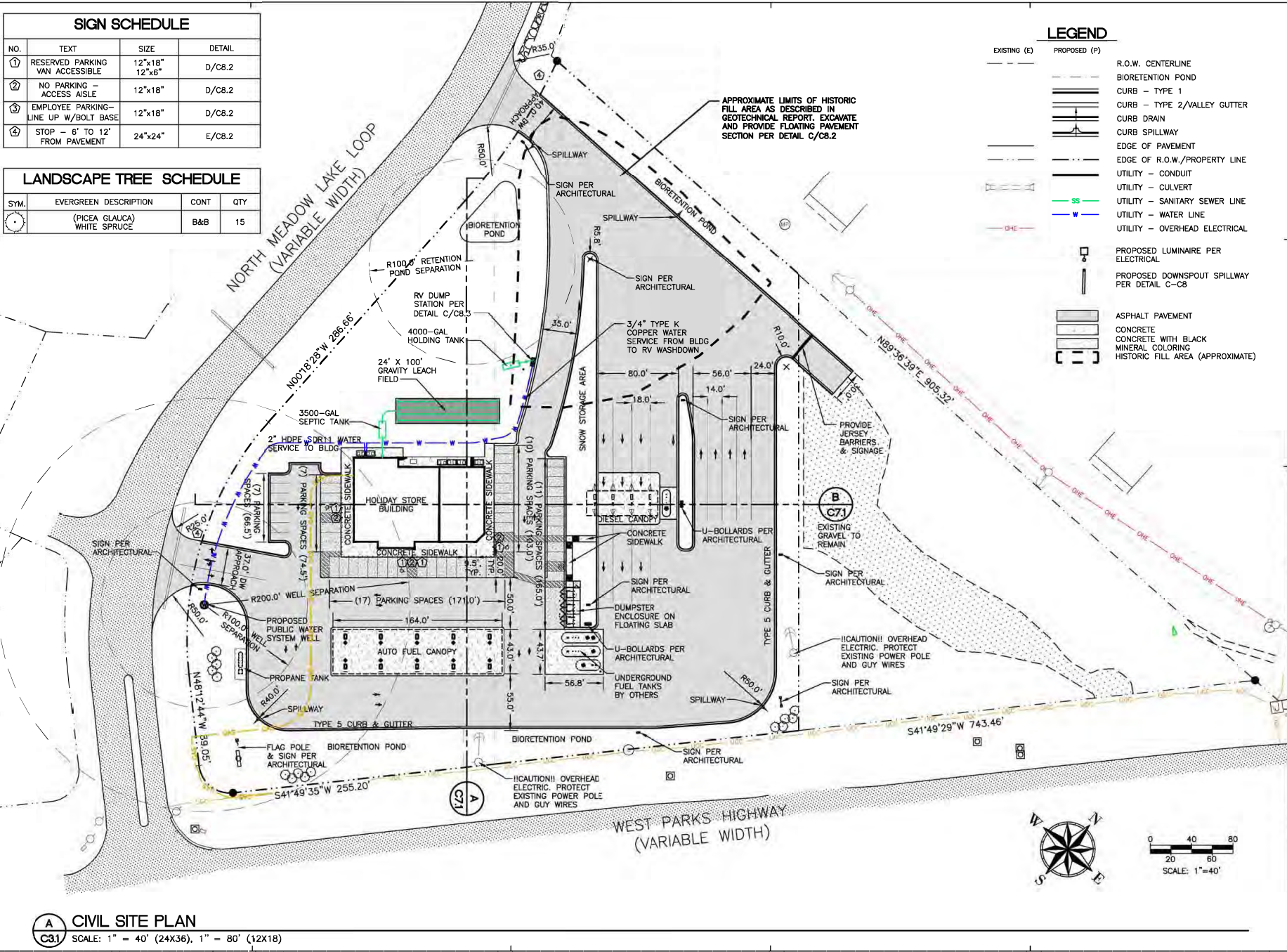
**C-3.1**

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

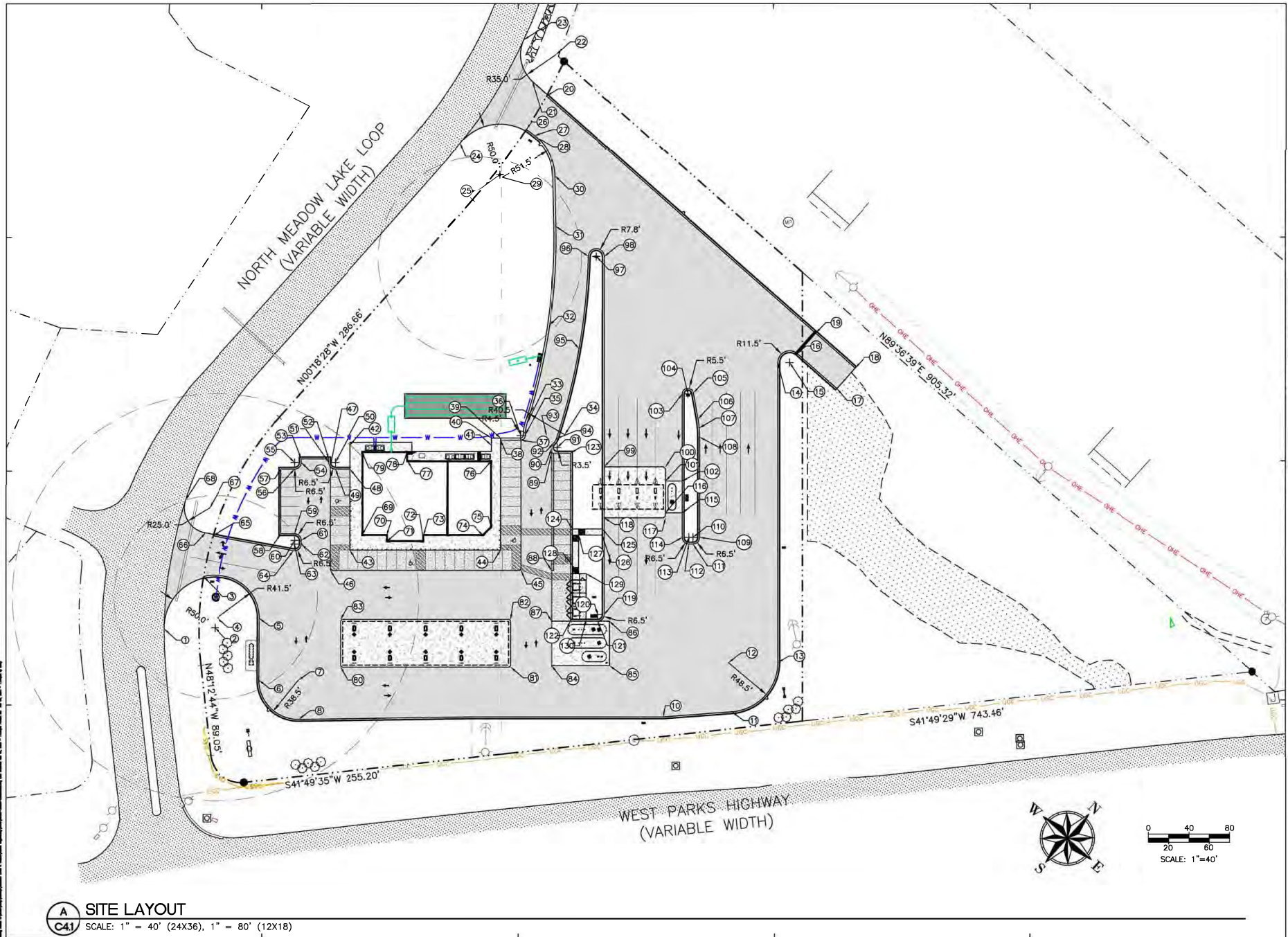
LANDSCAPE TREE SCHEDULE			
SYM.	EVERGREEN DESCRIPTION	CONT	QTY
	(PICEA GLAUC) WHITE SPRUCE	B&B	15

**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
- SS UTILITY - SANITARY SEWER LINE
- W UTILITY - WATER LINE
- OHE 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)



**A CIVIL SITE PLAN**  
**C31** SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



**A** **C41** **SITE LAYOUT**  
 SCALE: 1" = 40' (24X36), 1" = 80' (12X18)



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

**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**

**SITE LAYOUT**

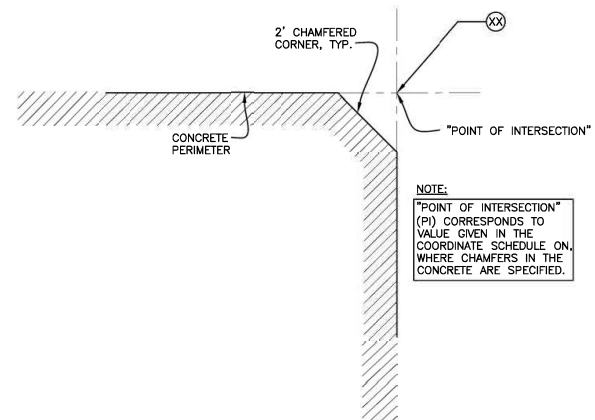
**SHEET NUMBER**

**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



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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



PROJECT NUMBER  
014764.40

SHEET TITLE

**SITE LAYOUT COORDINATE SCHEDULE**

SHEET NUMBER

**C-4.2**

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**PROFESSIONAL IN CHARGE**  
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**PROJECT MANAGER**  
M/D  
**QUALITY CONTROL**  
M/D/AM/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



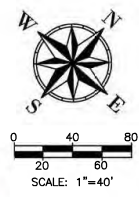
**Holiday**

**PROJECT NUMBER**  
014764.40  
**SHEET TITLE**

**GRADING  
PLAN**

**SHEET NUMBER**

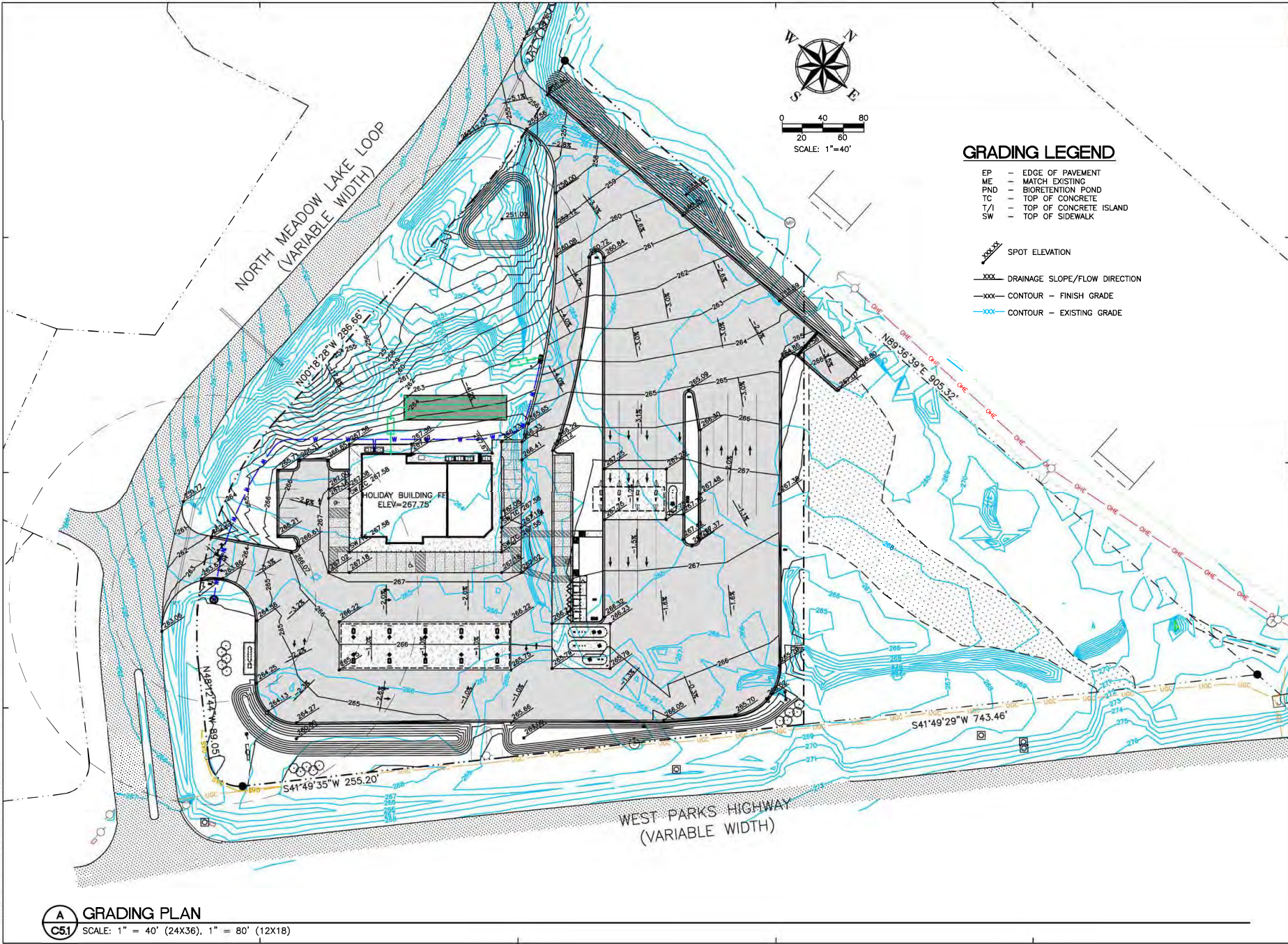
**C-5.1**



**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



**A GRADING PLAN**  
**C51** SCALE: 1" = 40' (24X36), 1" = 80' (12X18)

1. All work shall be in accordance with the Alaska Department of Transportation and Public Safety, Division of Highway Safety, Standard Specifications for Road and Bridge Construction, 2018 Edition, unless otherwise specified.  
 2. All work shall be in accordance with the Alaska Department of Transportation and Public Safety, Division of Highway Safety, Standard Specifications for Road and Bridge Construction, 2018 Edition, unless otherwise specified.  
 3. All work shall be in accordance with the Alaska Department of Transportation and Public Safety, Division of Highway Safety, Standard Specifications for Road and Bridge Construction, 2018 Edition, unless otherwise specified.  
 4. All work shall be in accordance with the Alaska Department of Transportation and Public Safety, Division of Highway Safety, Standard Specifications for Road and Bridge Construction, 2018 Edition, unless otherwise specified.  
 5. All work shall be in accordance with the Alaska Department of Transportation and Public Safety, Division of Highway Safety, Standard Specifications for Road and Bridge Construction, 2018 Edition, unless otherwise specified.



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**PROFESSIONAL IN CHARGE**

**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



**Holiday**

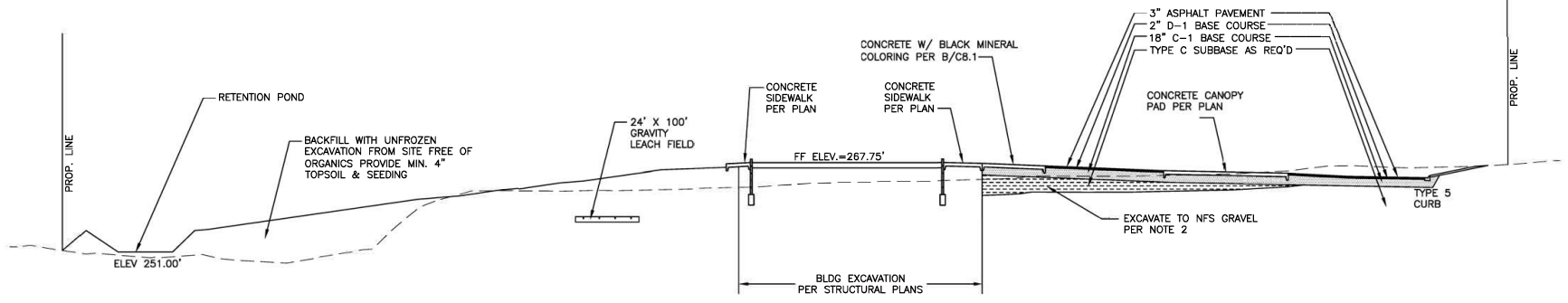
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014764.40

**SHEET TITLE**

**TYPICAL  
SITE  
SECTIONS**

**SHEET NUMBER**

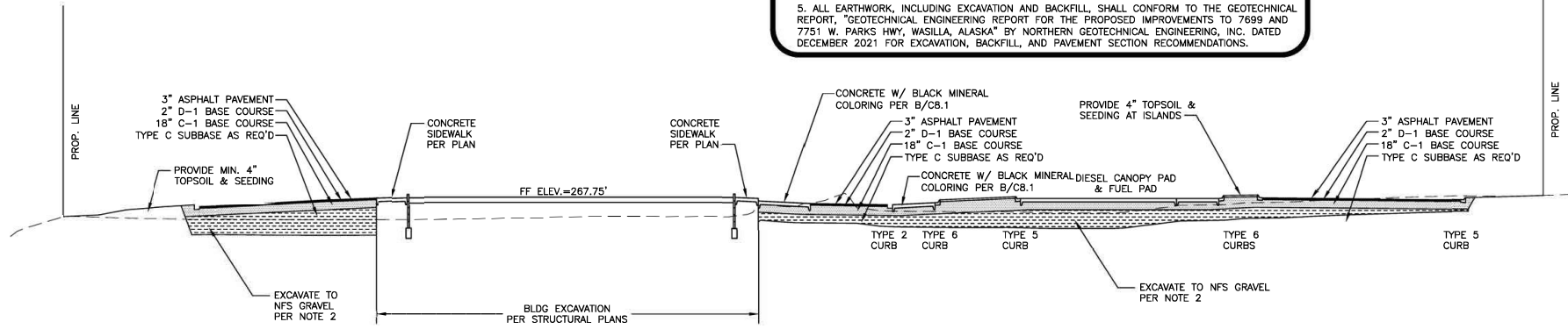
**C-7-1**



**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.

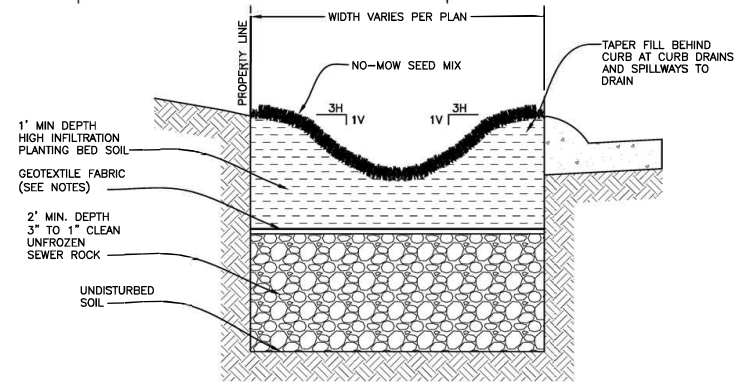
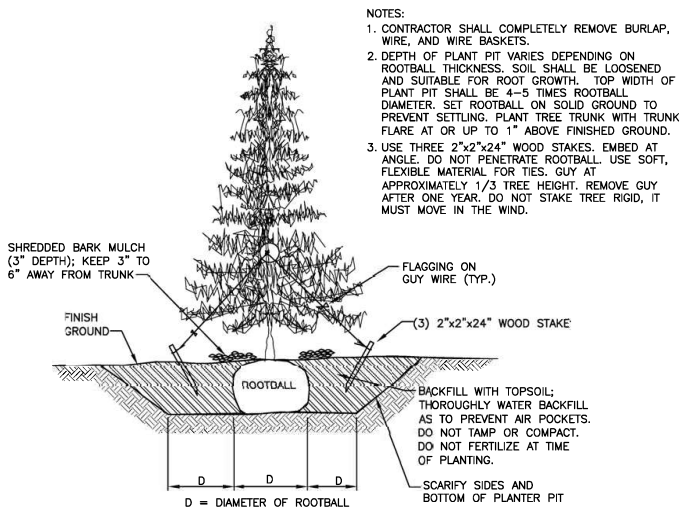


**B** TYPICAL SITE SECTION - WEST TO EAST  
**C71** SCALE: 1" = 20' (24X36), 1" = 40' (12X18) [2X VERTICAL EXAGGERATION]







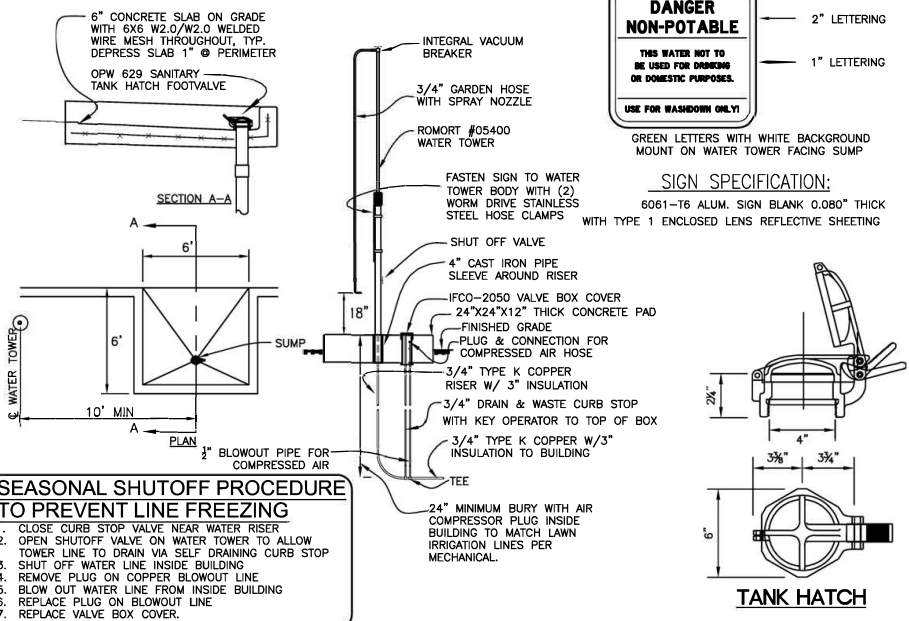


- NO-MOW SEED MIX:**
- 30% DESCHAMPSIA CESPITOSA / TUFTED HAIRGRASS
  - 30% FETUSCA RUBRA 'BOREAL' / BOREAL RED FESCUE
  - 30% POA PRATENSIS 'NUGGET' / NUGGET KENTUCKY BLUEGRASS
  - 1% SOLIDAGO CANADENSIS / GOLDENROD
  - 1% ACHILLEA MILLEFOLIUM VAR. BOREALIS / BOREAL YARROW
  - 1% SYMPHYOTRICHUM SUBSPICATUM / DOUGLAS ASTER
- HIGH INFILTRATION PLANTING BED SOIL:**
- 50% TOPSOIL
  - 25% SAND
  - 25% COMPOST

- NOTES:**
- HYDROSEED ALL DISTURBED AREAS WITH NO MOW SEED MIX AT RATE OF 4 PER 1,000 SF. APPLY HYDROSEED SLURRY PER MANUFACTURER'S RECOMMENDATIONS.
  - IN THE SPRING, FERTILIZER SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATION FOR ALL PLANTINGS.
  - GEOTEXTILE FABRIC: WEED STOP GEO-FABRIC: 3 OZ. NEEDLE PUNCH OR SPUN-BONDED POLYPROPYLENE WEED SUPPRESSION FABRIC.

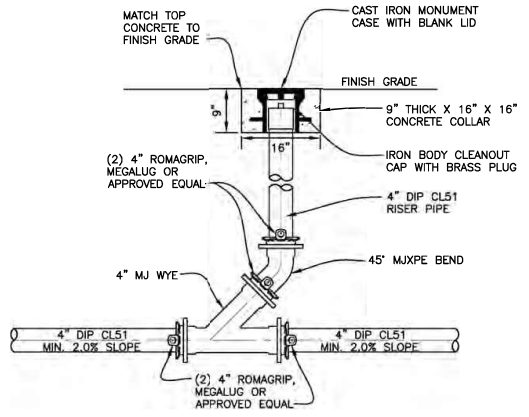
**A TYPICAL CONIFER PLANTING**  
C8.3 SCALE: (NTS)

**B TYPICAL BIORETENTION POND**  
C8.3 SCALE: (NTS)



- SEASONAL SHUTOFF PROCEDURE TO PREVENT LINE FREEZING**
- CLOSE CURB STOP VALVE NEAR WATER RISER
  - OPEN SHUTOFF VALVE ON WATER TOWER TO ALLOW TOWER LINE TO DRAIN VIA SELF DRAINING CURB STOP
  - SHUT OFF WATER LINE INSIDE BUILDING
  - REMOVE PLUG ON COPPER BLOWOUT LINE
  - BLOW OUT WATER LINE FROM INSIDE BUILDING
  - REPLACE PLUG ON BLOWOUT LINE
  - REPLACE VALVE BOX COVER.

**C RV DUMP/WASHDOWN CONSTRUCTION**  
C8.3 SCALE: (NTS)



**D TYPICAL SANITARY SEWER CLEANOUT**  
C8.3 SCALE: (NTS)

**NELSON ENGINEERING**  
155 BIDARKA STREET  
KENAI, ALASKA 99611  
(907) 283-3563  
LICENSE NO. 0051727

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**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**

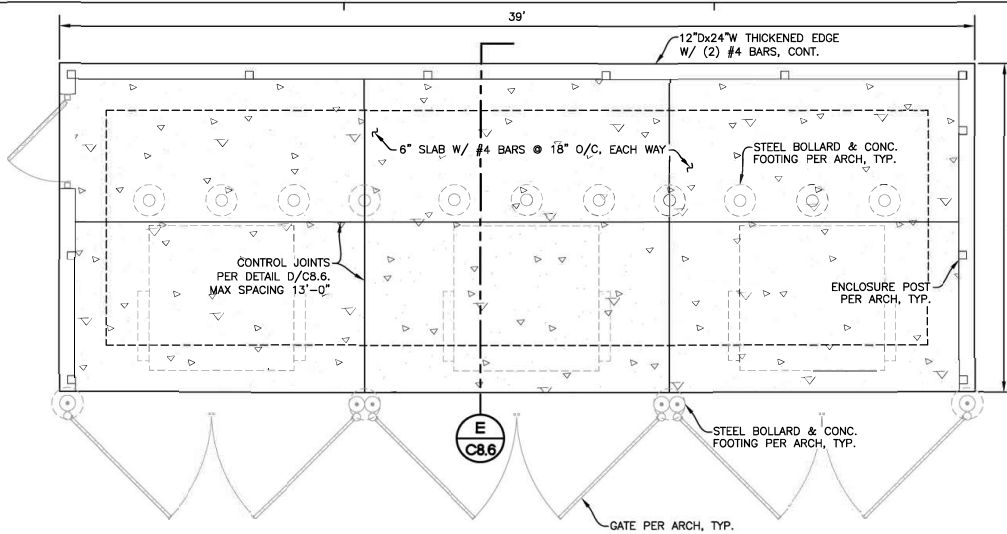
**PROJECT NUMBER**  
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**SHEET TITLE**  
**TYPICAL DETAILS**

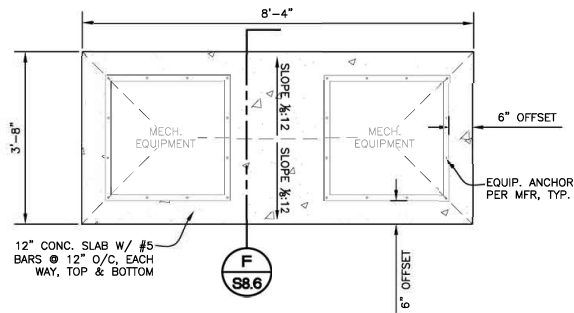
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**C-8.3**



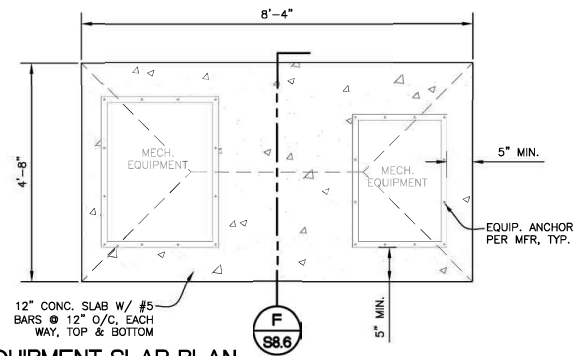




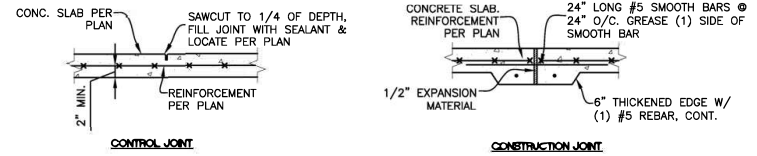
**A** DUMPSTER ENCLOSURE PLAN  
**C8.6** SCALE: (NTS)



**B** CONDENSER UNIT SLAB PLAN  
**C8.6** SCALE: (NTS)

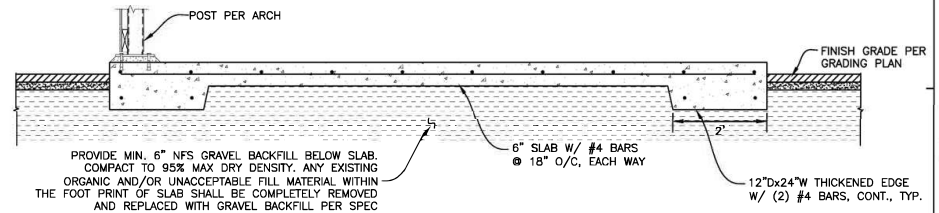


**C** HOLIDAY EQUIPMENT SLAB PLAN  
**C8.6** SCALE: (NTS)

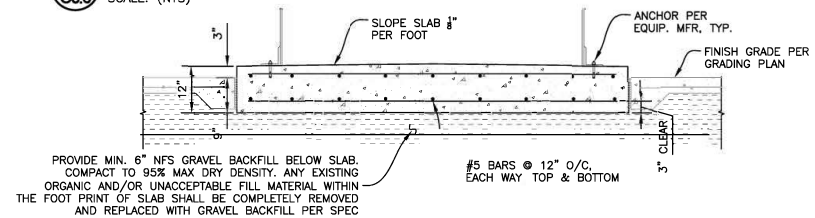


- NOTES:**  
 1.) CONTROL JOINTS MAY BE REPLACED W/ CONSTRUCTION JOINT  
 2.) SAW CUT JOINTS SHALL BE CUT WITHIN 24HRS OF POUR

**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)



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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

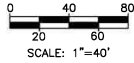
014764.40

SHEET TITLE

**TYPICAL DETAILS**

SHEET NUMBER

**C-8.6**



NORTH MEADOW LAKE LOOP  
(VARIABLE WIDTH)

WEST PARKS HIGHWAY  
(VARIABLE WIDTH)

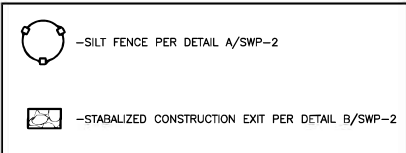
**NOTES:**

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)



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**PROFESSIONAL IN CHARGE**

MJD  
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**

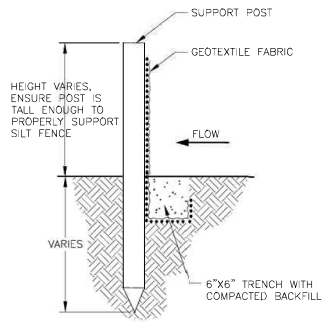
PROJECT NUMBER  
014764.40

SHEET TITLE

**CONSTRUCTION SWPPP EROSION & SEDIMENT CONTROL PLAN**

SHEET NUMBER

**SWP-1**

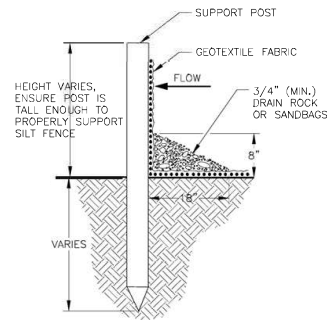


**TRENCH DETAIL**  
NOT TO SCALE

**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**

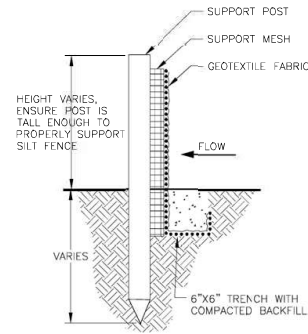
CLEAN ROCK OR SANDBAGS.

**INSTALLATION**

1. DRIVE SUPPORT POSTS INTO THE GROUND.
2. ATTACH GEOTEXTILE ON 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.

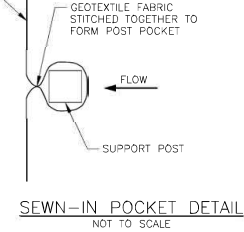


**SUPPORT MESH REINFORCED FABRIC DETAIL**  
NOT TO SCALE

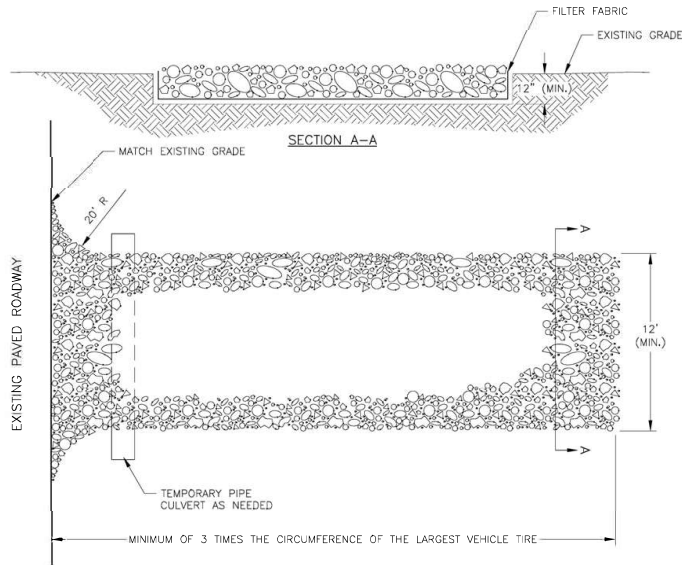
**SUPPORT MESH REINFORCED FABRIC NOTES:**

**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.



**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 BROADWAY STREET  
KENAI, ALASKA 99811  
(907) 283-3563  
LICENSE NO. 4852378

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3/1/23 PSM/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

**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**







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) <sup>1</sup>										
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)

<sup>1</sup> 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.

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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**

<b>PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)<sup>1</sup></b>										
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)

<sup>1</sup> 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.

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**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 page features a large, light gray triangle in the bottom-left corner and a large, orange triangle in the bottom-right corner. The text is centered in the upper half of the page.



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](mailto: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](mailto: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 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
Main: 907.269.0350

May 14, 2024

Matanuska-Susitna Borough

Email: [license.reviews@matsugov.us](mailto:license.reviews@matsugov.us); [alex.strawn@matsugov.us](mailto:alex.strawn@matsugov.us)

<b>License Type:</b>	Package Store	<b>License Number:</b>	4198
<b>Licensee:</b>	Holiday Alaska, LLC		
<b>Doing Business As:</b>	Holiday #650		
<b>Premises Address</b>	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](mailto:amco.localgovernmentonly@alaska.gov)





Alcohol and Marijuana Control Office  
 550 W 7<sup>th</sup> Avenue, Suite 1600  
 Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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

### 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



Alcohol and Marijuana Control Office  
 550 W 7<sup>th</sup> Avenue, Suite 1600  
 Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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 7<sup>th</sup> Avenue, Suite 1600  
 Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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



Alcohol and Marijuana Control Office  
550 W 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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 14<sup>th</sup> day of November, 20 23.

Signature of Notary Public



Notary Public in and for the State of Indiana.

My commission expires: 02/01/2029

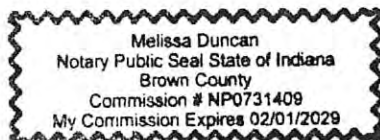
Signature of transferor

Gary Brant

Printed name of transferor

Subscribed and sworn to before me this 14<sup>th</sup> day of November, 20 23.

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 7<sup>th</sup> Avenue, Suite 1600  
 Anchorage, AK 99501  
[alcohol.licensing@alaska.gov](mailto: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.

GPB

I certify that all proposed licensees have been listed with the Division of Corporations.

GPB

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.

GPB

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.

GPB

I agree to provide all information required by the Alcoholic Beverage Control Board in support of this application.

GPB

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.

GPB

*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

*14<sup>th</sup>*

*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



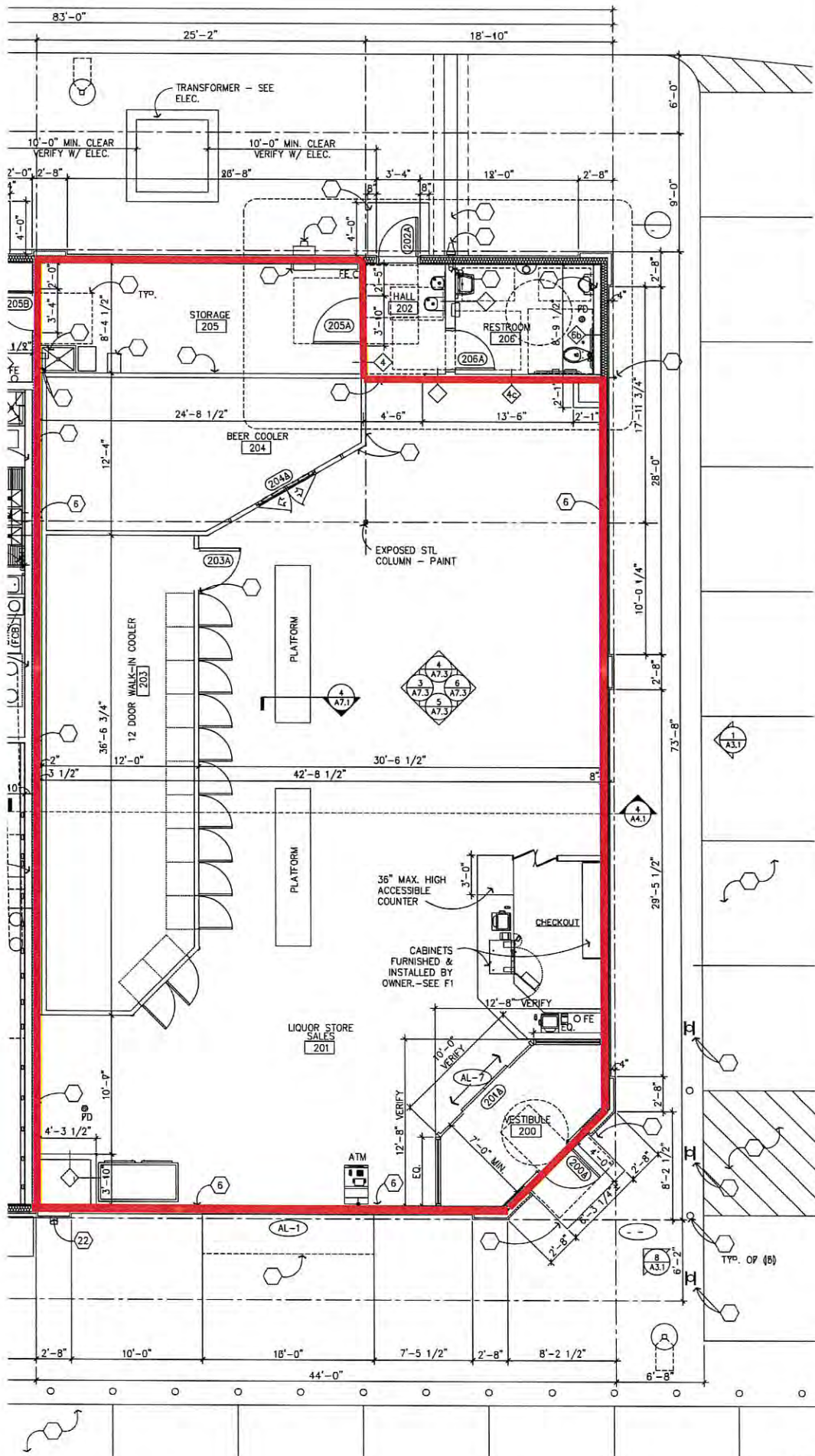


Alaska Alcoholic Beverage Control Board  
**Form AB-02: Premises Diagram**

---

**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"

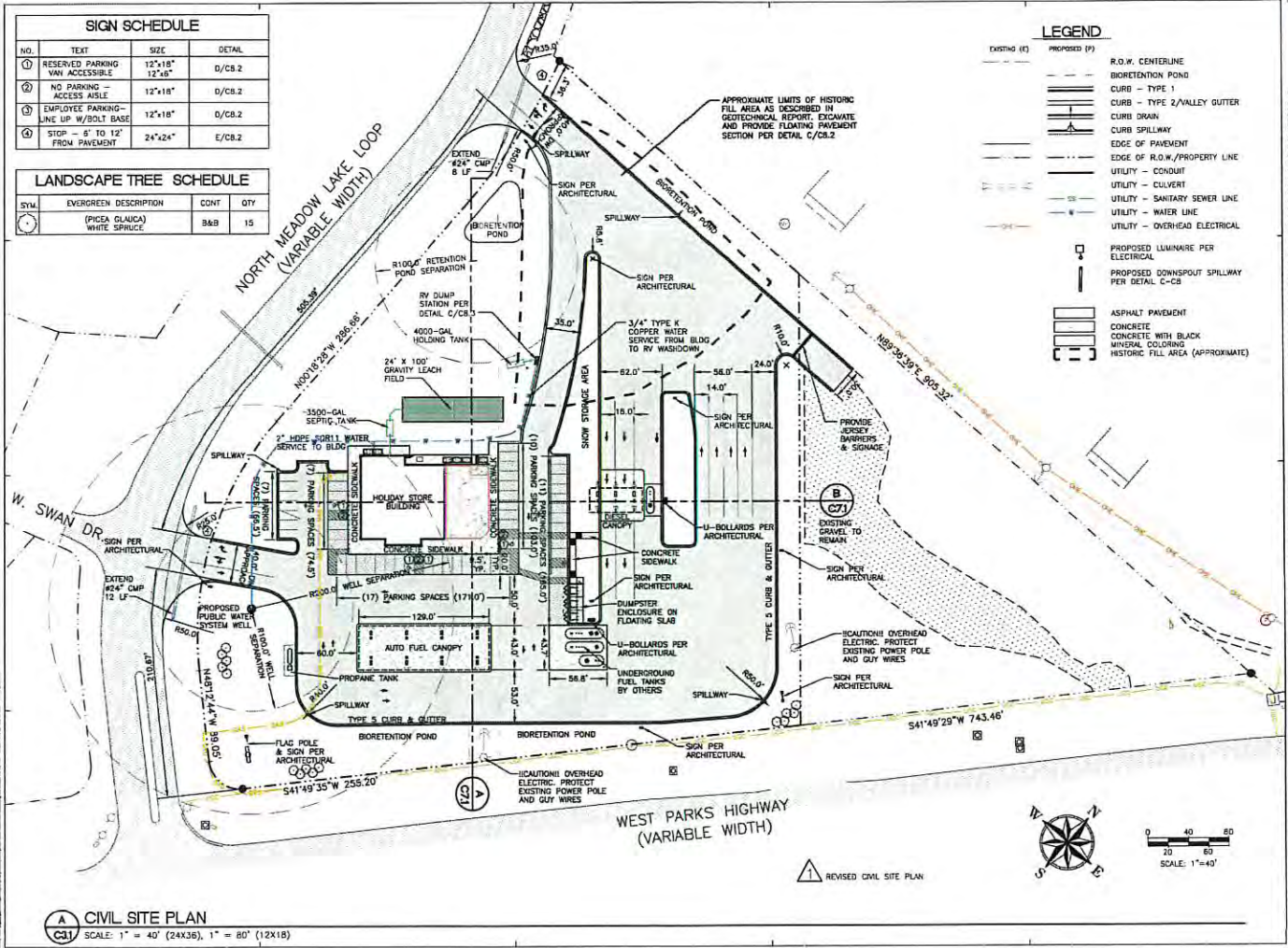


Received by AMCO 12 30 23 NORTH

SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
①	RESERVED PARKING WAY ACCESSIBLE	12"x18" 12"x18"	D/CB.2
②	NO PARKING - ACCESS AISLE	12"x18"	D/CB.2
③	EMPLOYEE PARKING - LINE UP W/BOUNT 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 GLAUBICA) WHITE SPRUCE	B&B	13

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-55
(Symbol)	ASPHALT PAVEMENT
(Symbol)	CONCRETE
(Symbol)	CONCRETE WITH BLACK MINERAL COLORING
(Symbol)	HISTORIC FILL AREA (APPROXIMATE)



**NELSON ENGINEERING**  
235 BRADY STREET  
WASILLA, ALASKA 99623  
907.451.5641  
907.451.5642

**PROFESSIONAL SEAL**  
STATE OF ALASKA  
REGISTERED PROFESSIONAL ENGINEER  
No. 14467  
EXPIRES 12/31/2018

**PROFESSIONAL IN CHARGE**  
REG. PROJECT MANAGER  
REG. QUALITY CONTROL  
REG. SURVEY  
REG. NCE

**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



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

**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

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



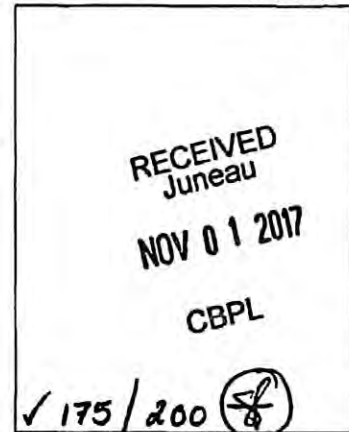
THE STATE  
of **ALASKA**

Department of Commerce, Community, and Economic Development  
Division of Corporations, Business and Professional Licensing

**Corporations Section**

State Office Building, 333 Willoughby Avenue, 9<sup>th</sup> 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.):

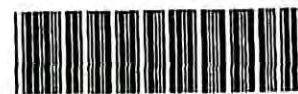
Holiday Alaska, LLC
---------------------

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-

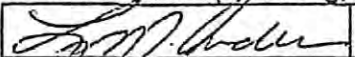
Provide Articles of Organization, which satisfy the requirements of AS 10.50.075 and 10.55.405, as an attachment.

**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

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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, 9<sup>th</sup> Floor

PO Box 110806, Juneau, AK 99811-0806

Phone: (907) 465-2550 • Fax: (907) 465-2974

Email: [corporations@alaska.gov](mailto:corporations@alaska.gov)

Website: [Corporations.Alaska.Gov](http://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](http://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](http://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

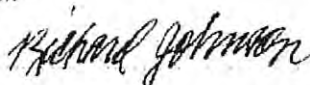
→ MAILING Address: 9360 Glacier Highway, Suite 202  
 City: Juneau State: AK (mandatory) ZIP Code: 99801

**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

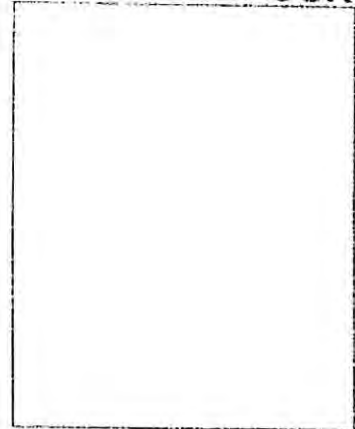
*If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc, the sole member of ABC LLC*



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, 9<sup>th</sup> Floor  
PO Box 110806, Juneau, AK 99811-0806  
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Email: [corporations@alaska.gov](mailto:corporations@alaska.gov)  
Website: [Corporations.Alaska.Gov](http://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

<b>Entity Information</b>		Enter your entity information as it appears on this filing.	
Entity Name:	Holiday Alaska, LLC		
AK Entity #:	82196D		

<b>Contact Person</b>		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		

<b>Document Return Address</b>		Provide an address for the return of your filed documents.	
<input checked="" type="checkbox"/> Return my filings to the address provided <b>ABOVE</b>			
<input type="checkbox"/> Return my filings to this address provided <b>BELOW</b>			
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



THE STATE  
of **ALASKA**  
Department of Commerce, Community and Economic Development  
Division of Corporations, Business and Professional Licensing



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**Corporations Section**

State Office Building, 333 Willoughby Avenue, 9<sup>th</sup> Floor  
PO Box 110806, Juneau, AK 99811-0806  
Phone: (907) 465-2550 • Fax: (907) 465-2974  
Email: [corporations@alaska.gov](mailto:corporations@alaska.gov)  
Website: [Corporations.Alaska.Gov](http://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](http://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](http://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: DOLORES OWENS

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PREVIOUS Registered Agent Addresses:

JAN 29 2021

→ PHYSICAL Address: 9360 Glacier Hwy Ste 202

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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: Jill E. Cilmi 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.*



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JAN 29 2021

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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

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**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;"><b>WARRANTY DEED</b></p> <p><i>ms94802</i></p>	<p><b>PROJECT NAME: <u>PARKS HIGHWAY MP 48.8 TO 52.3 RECONSTRUCTION</u></b></p> <p><b>STATE PROJECT #: <u>Z543730000</u></b></p> <p><b>FEDERAL-AID PROJECT #: <u>0A41029</u></b></p> <p><b>PARCEL #: <u>126</u></b></p>
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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: R. V. L. L.  
For the Commissioner  
*DB*

25A-R620 (Rev 09-01-06)  
Region: Central

Project Number: 0A41029/Z543730000  
Parks Highway MP 48.8 to 52.3 Reconstruction

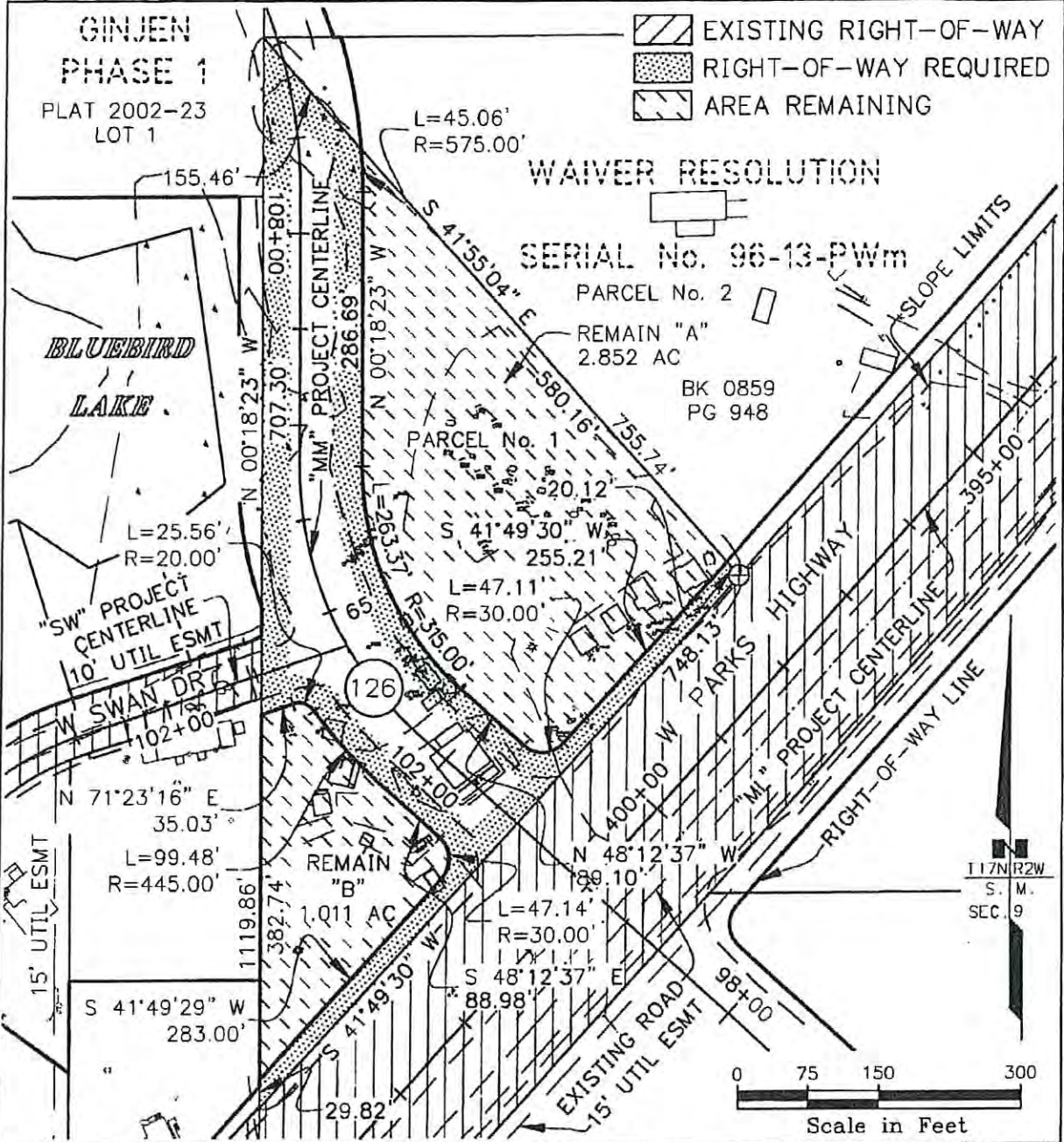
Parcel No.: 126  
Page 3 of 4



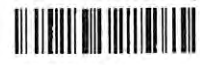
3 of 4

2019-014826-0

Received by AMCO 5.14.24



<b>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</b>	
RIGHT-OF-WAY REQUIRED FOR <b>PARKS HIGHWAY, MP 48.8-52.3</b> <b>PITTMAN ROAD TO BIG LAKE ROAD</b> 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>          </u> 2.588 AC NET TAKE <u>          </u> 2.588 AC DRAWN BY <u>JCF/AFF</u> REMAIN <u>          </u> 3.863 AC	
DATE <u>Nov 2016</u>	<b>PARCEL NO. 126</b>





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



 <b>STATE OF ALASKA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>AND PUBLIC FACILITIES</b>	<b>PROJECT NAME: <u>PARKS HIGHWAY MP 48.8</u></b> <b><u>TO 52.3 RECONSTRUCTION</u></b>
	<b>STATE PROJECT #: <u>Z543730000</u></b> <b>FEDERAL-AID PROJECT #: <u>0A41029</u></b> <b>PARCEL #: <u>126</u></b>
<b>WARRANTY DEED</b>	
<i>ms94802</i>	

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



**CERTIFICATE OF ACCEPTANCE**

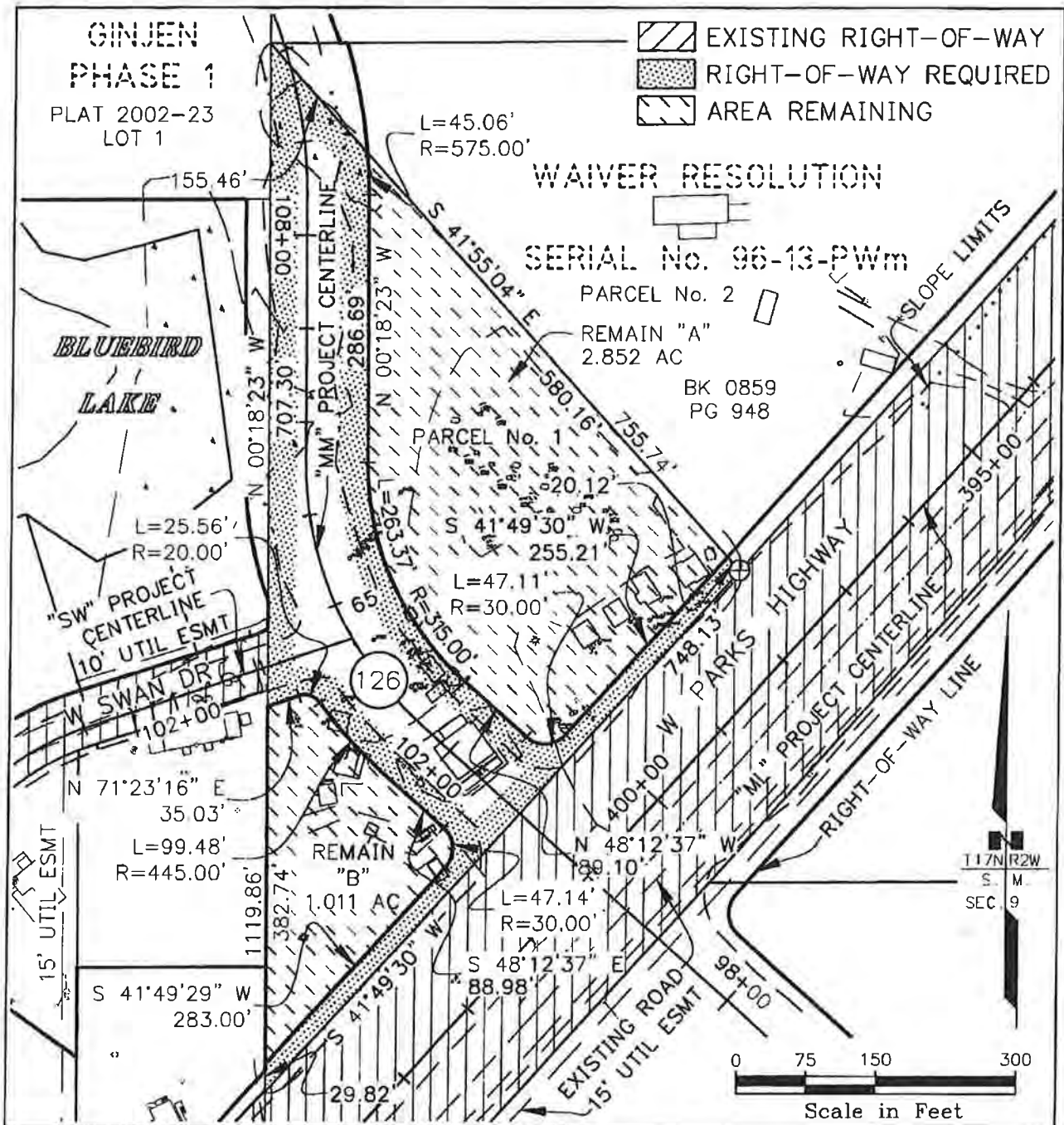
THIS IS TO CERTIFY that the **STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**, Grantee herein, acting by and through its Commissioner, hereby accepts for public purposes the real property, or interest therein, described in this instrument and consents to the recordation thereof:

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*





<b>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</b>	
RIGHT-OF-WAY REQUIRED FOR <b>PARKS HIGHWAY, MP 48.8-52.3</b> <b>PITTMAN ROAD TO BIG LAKE ROAD</b> 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 _____ <b>2.588 AC</b> NET TAKE _____ <b>2.588 AC</b> DRAWN BY <u>JCF/AFF</u> REMAIN _____ <b>3.863 AC</b> DATE <u>Nov 2016</u> <b>PARCEL NO. 126</b>	







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



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



## 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 14<sup>th</sup> day of November, 20 23.

  
\_\_\_\_\_  
Signature of Notary Public



Notary Public in and for the State of Indiana.

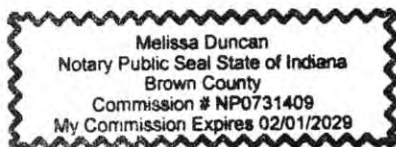
My commission expires: 02/01/2029

  
\_\_\_\_\_  
Signature of transferor

Gary Brant  
\_\_\_\_\_  
Printed name of transferor

Subscribed and sworn to before me this 14<sup>th</sup> 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 14<sup>th</sup> 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.

<b>Licensee:</b>					
<b>License Type:</b>					
<b>Doing Business As:</b>					
<b>Premises Address:</b>					
<b>City:</b>		<b>State:</b>		<b>ZIP:</b>	

**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

\_\_\_\_\_  
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:	



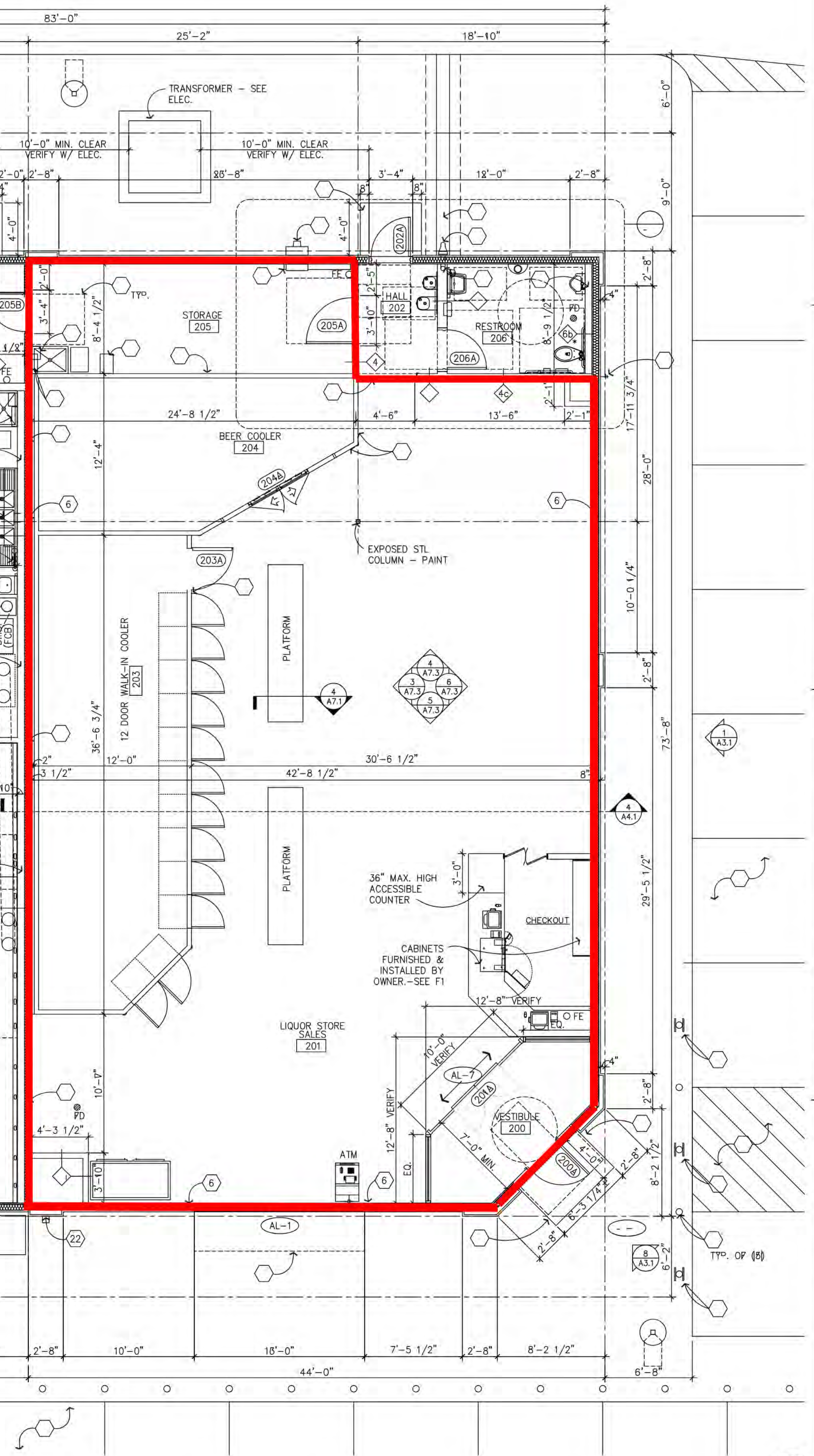
Alaska Alcoholic Beverage Control Board

## Form AB-02: Premises Diagram

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### 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"

Received by AMCO 12.30.23



NORTH



**NELSON ENGINEERING**  
155 BROADWAY STREET  
KENAI, ALASKA 99611  
(907) 283-3003  
LICENSE NO. 4552272

**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 Engineer. All rights reserved. No part of this drawing may be reproduced in any manner without the express written permission from the Professional Engineer.

3/7/23 PERM/REV SET  
5/17/23 REVISION 1

**PROFESSIONAL SEAL**



**PROFESSIONAL IN CHARGE**

**PROJECT MANAGER**  
MZO  
**QUALITY CONTROL**  
MZO/AMD  
**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**

**CIVIL SITE PLAN**

**SHEET NUMBER**

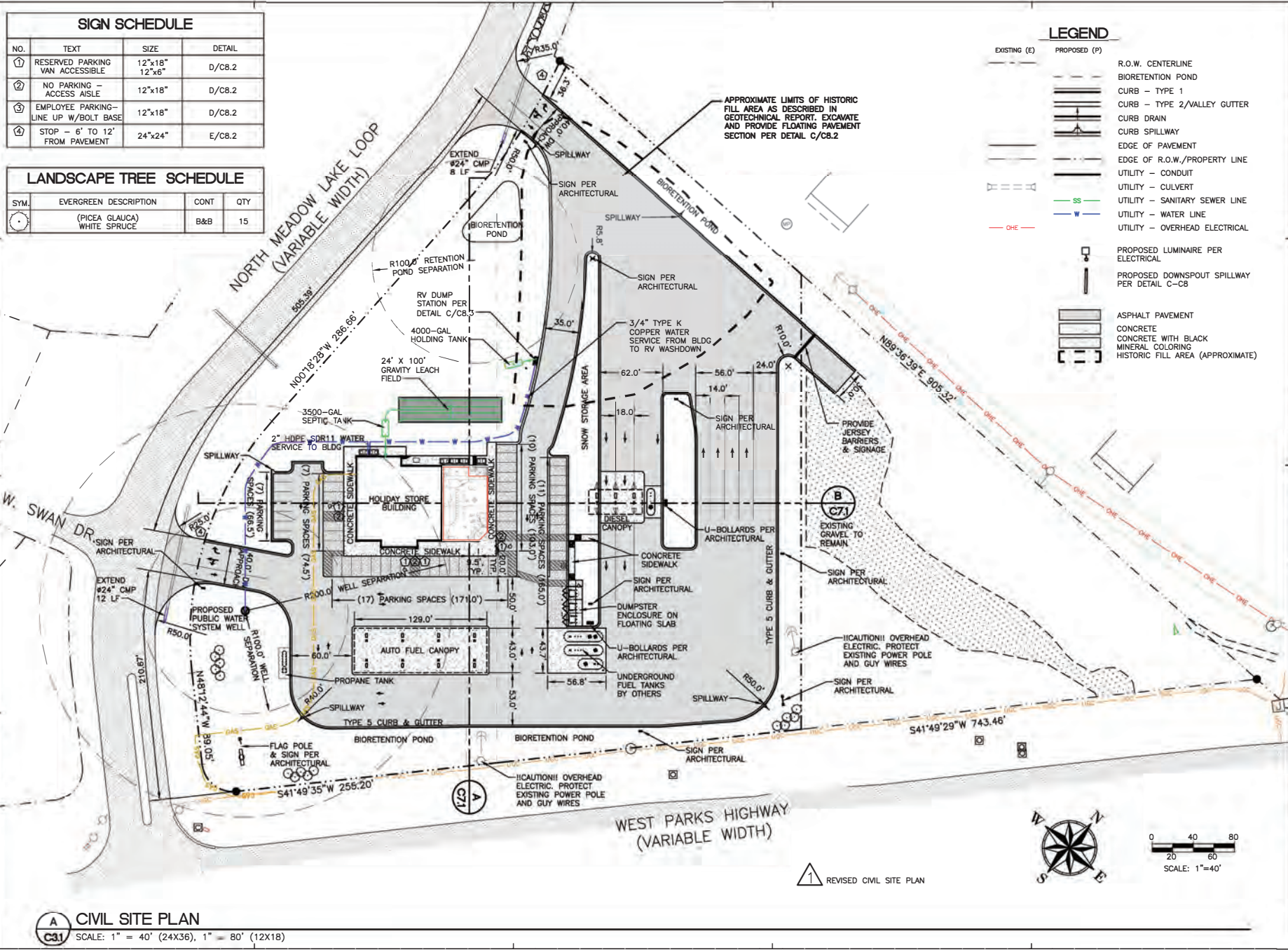
**C-3.1**

**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)

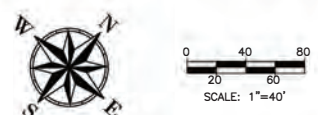
SIGN SCHEDULE			
NO.	TEXT	SIZE	DETAIL
1	RESERVED PARKING VAN ACCESSIBLE	12"x18" 12"x6"	D/CB.2
2	NO PARKING - ACCESS AISLE	12"x18"	D/CB.2
3	EMPLOYEE PARKING - LINE UP W/BOLT BASE	12"x18"	D/CB.2
4	STOP - 6" TO 12" FROM PAVEMENT	24"x24"	E/CB.2

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



**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](#)

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**[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. 7<sup>th</sup> Avenue, Suite 1600  
Anchorage, AK 99501  
907-269-0490



**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

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

AK Entity #: 82196D  
Date Filed: 11/01/2017  
State of Alaska, DCCED



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, 9<sup>th</sup> 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**

<p>RECEIVED Juneau NOV 01 2017 CBPL</p> <p>✓ 175 / 200 (S)</p>
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**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:

<b>ITEM 1:</b> 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



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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-

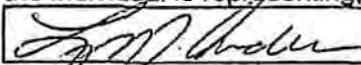
Provide Articles of Organization, which satisfy the requirements of AS 10.50.075 and 10.55.405, as an attachment.

**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

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 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.

--

Attach an additional 8.5" x 11" sheet if necessary.

Statement of Conversion: Entity with AK Entity # Converting to Domestic Limited Liability Company

**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, 9<sup>th</sup> Floor  
PO Box 110806, Juneau, AK 99811-0806  
Phone: (907) 465-2550 • Fax: (907) 465-2974  
Email: [corporations@alaska.gov](mailto:corporations@alaska.gov)  
Website: [Corporations.Alaska.Gov](http://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](http://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](http://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

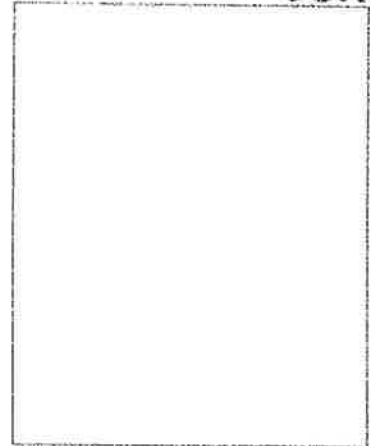
*If signing on behalf of a member or manager which is an entity, then identify signer's relationship and signing authority with the member entity. For example: John Smith, President of XYZ Inc, the sole member of ABC LLC*



THE STATE  
of **ALASKA**

Department of Commerce, Community and Economic Development  
Division of Corporations, Business and Professional Licensing

**COR**



**Corporations Section**

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Website: [Corporations.Alaska.Gov](http://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

<b>Entity Information</b>		Enter your entity information as it appears on this filing.	
Entity Name:	Holiday Alaska, LLC		
AK Entity #:	82196D		
<b>Contact Person</b>		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		
<b>Document Return Address</b>		Provide an address for the return of your filed documents.	
<input checked="" type="checkbox"/> Return my filings to the address provided <b>ABOVE</b>			
<input type="checkbox"/> Return my filings to this address provided <b>BELOW</b>			
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

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Juneau  
JAN 29 2021  
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**Corporations Section**  
State Office Building, 333 Willoughby Avenue, 9<sup>th</sup> Floor  
PO Box 110806, Juneau, AK 99811-0806  
Phone: (907) 465-2550 • Fax: (907) 465-2974  
Email: [corporations@alaska.gov](mailto:corporations@alaska.gov)  
Website: [Corporations.Alaska.Gov](http://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](http://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.

<b>1. Important:</b>	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 <a href="http://Corporations.Alaska.Gov">Corporations.Alaska.Gov</a>, <i>Registered Agents FAQs</i>.</p>	

<b>2. Fee:</b>	<input checked="" type="checkbox"/> \$25 Nonrefundable Filing Fee (CORF)	3 AAC 16.065(b)
<p>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.</p>		

<b>3. Entity Information on Record with the State:</b>	AS 10.50.060(1)
<p>Entity Name: <u>HOLIDAY ALASKA, LLC</u></p> <p>Alaska Entity Number: <u>82196D</u></p>	

**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

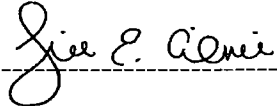
City: JUNEAU State: AK (mandatory) ZIP Code: 99801

**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





May 14, 2024

Matanuska-Susitna Borough

Email: [license.reviews@matsugov.us](mailto:license.reviews@matsugov.us); [alex.strawn@matsugov.us](mailto:alex.strawn@matsugov.us)

<b>License Type:</b>	Package Store	<b>License Number:</b>	4198
<b>Licensee:</b>	Holiday Alaska, LLC		
<b>Doing Business As:</b>	Holiday #650		
<b>Premises Address</b>	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](mailto: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](http://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](mailto: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](http://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](mailto:PermitCenter@matsugov.us) to request a final inspection. Be sure to reference the permit number shown above.

Sincerely,

Michelle Olsen, RWA  
ROW Coordinator

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



Figure 1: Study Area Map

**Table 2: Study Area Roadway Characteristics**

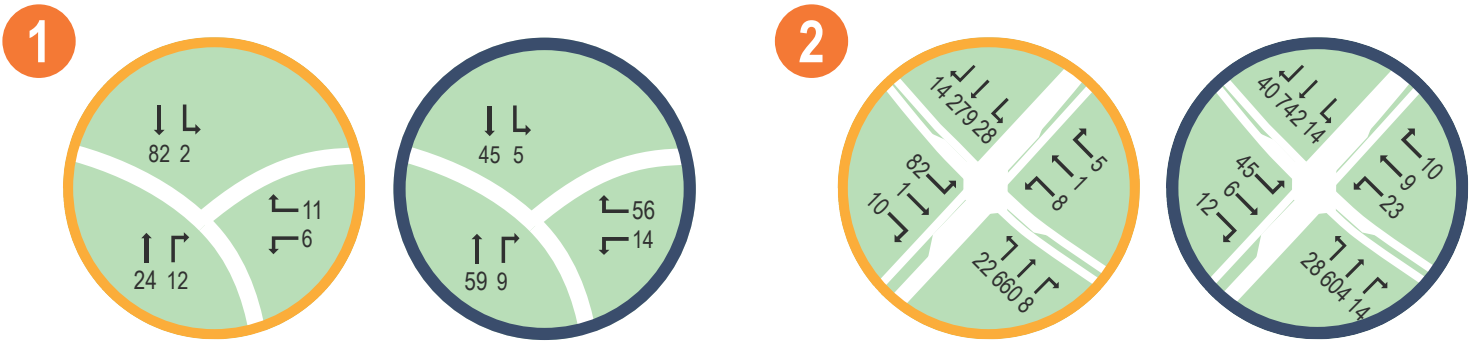
Road	Functional Classification	Posted Speed	Cross-section
Parks Highway	Interstate	55 MPH	Four lane divided highway
Meadow Lakes Loop	Minor Collector	30 MPH	Two lane road
Marigold Drive	Local Road	30 MPH	Two lane road

**Existing Traffic Volumes**

Existing traffic volumes were collected on May 11<sup>th</sup>, 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 30<sup>th</sup> 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.<sup>1</sup> Figure 2 shows the seasonally adjusted existing AM and PM peak hour turning movement volumes at each study intersection.

<sup>1</sup> Data from <https://alaskatraficdata.drakewell.com>



○ AM Peak     ○ PM Peak

Figure 2: Existing Conditions Volumes

## Mobility Standards

Traffic operations were assessed using the 2010 Highway Capacity Manual (HCM)<sup>2</sup> methodology to calculate intersection level of service (LOS) consistent with guidance from the 2022 Alaska DOT&PF Highway Preconstruction Manual.<sup>3</sup> Full calculations are provided in the Appendix. The Alaska Administrative Code (AAC)<sup>4</sup> 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.

<sup>2</sup> HCM 2010: Highway Capacity Manual, Transportation Research Board, 2010.

<sup>3</sup> Alaska Highway Preconstruction Manual, Alaska Department of Transportation and Public Facilities, 2022.

<sup>4</sup> Section 17 Alaska Administrative Code 10.070, <https://www.akleg.gov/basis/aac.asp#17.10.070>



## FUTURE CONDITIONS

### 2033 No-Build Traffic Operations

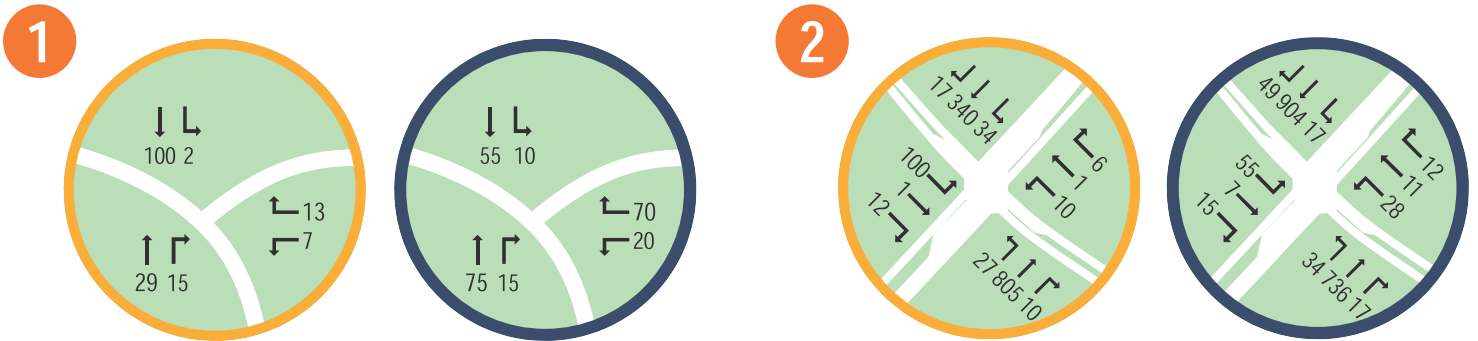
Figure 3 shows the expected AM and PM peak hour turning movements in 2033, without the proposed Holiday development. Future traffic volumes were generated using a compound annual growth rate of 2.00% per year. This growth rate was established through the Parks Highway Planning and Environmental Linkages study<sup>5</sup>.

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

<sup>5</sup> Parks Highway Alternative Corridor Planning and Environmental Linkages Study, Traffic Forecast Technical Memorandum.



AM Peak PM Peak

Figure 3: 2033: No Build Volumes

## 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 development<sup>6</sup>. 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
<b>Total Primary Trips</b>		176	174	350	175	175	350	4148

The Alaska Administrative Code (AAC)<sup>7</sup> 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

<sup>6</sup> Institute of Transportation Engineers, Trip Generation Handbook 3<sup>rd</sup> Edition pages 218-220, 2017.

<sup>7</sup> Section 17 Alaska Administrative Code 10.060, <https://www.akleg.gov/basis/aac.asp#17.10.060>

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.

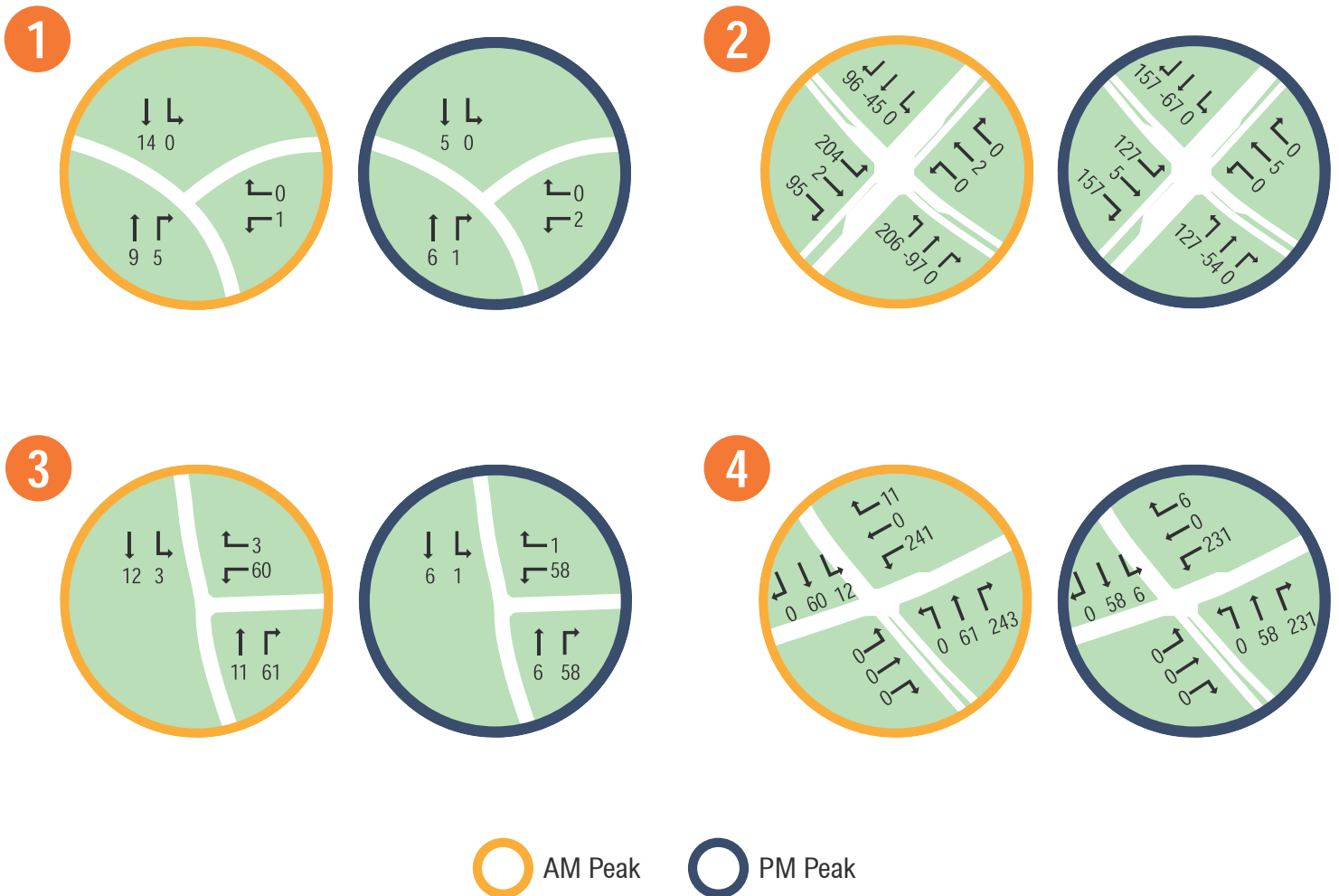


Figure 4: Added Build Volumes

## 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 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

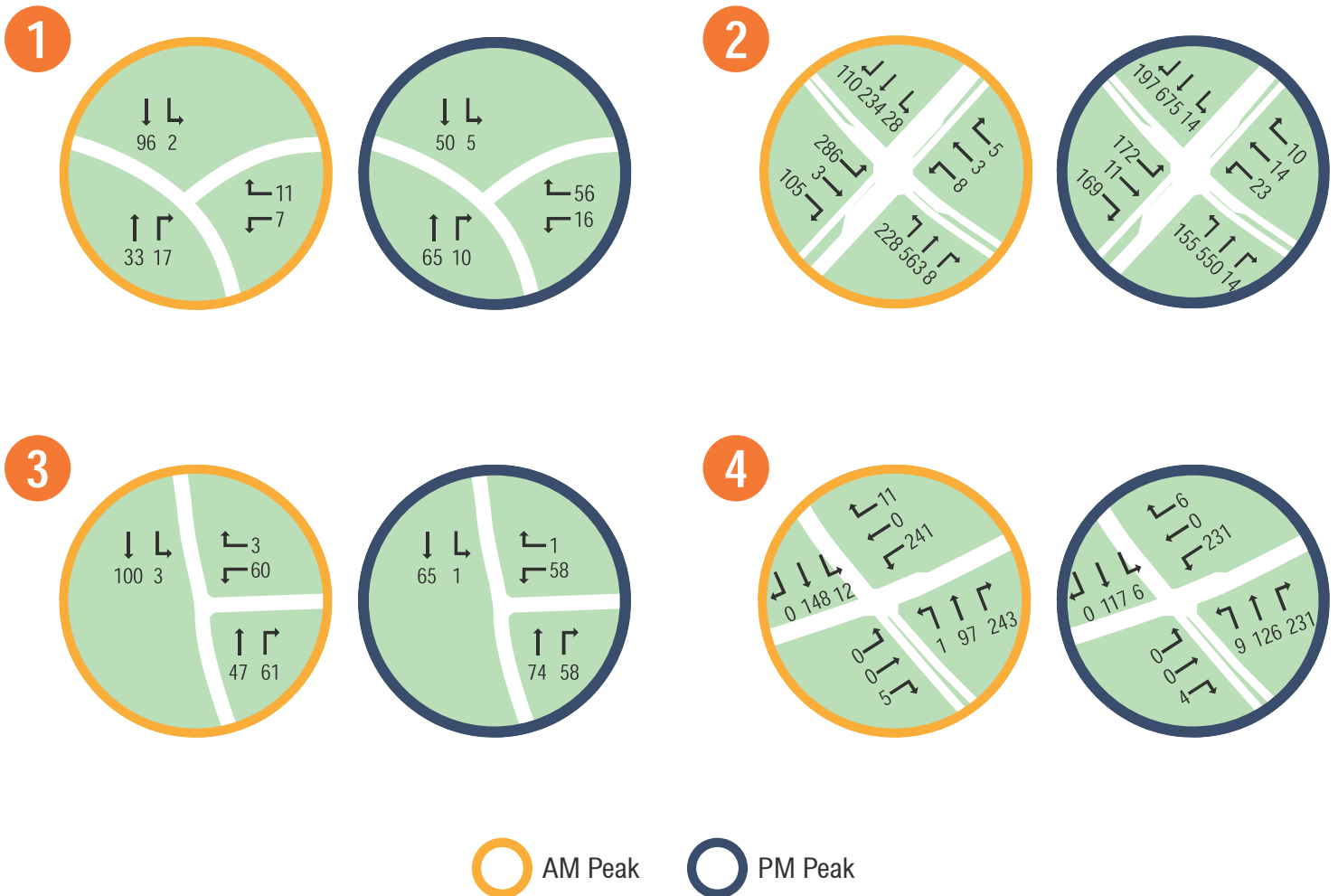


Figure 5: 2023 Build

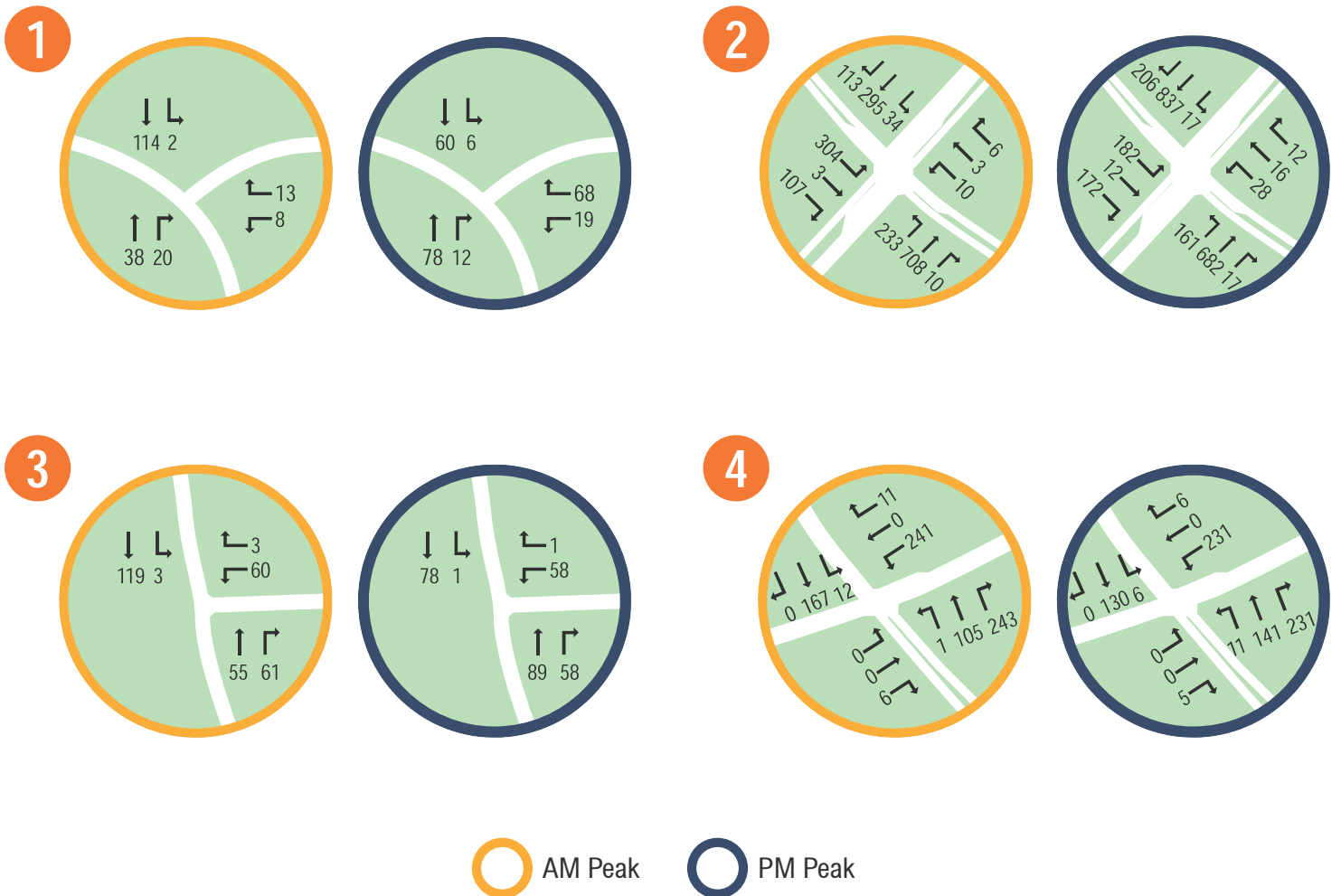


Figure 6: 2033 Build



## 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 279<sup>8</sup> 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 <sub>a</sub>	
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 Book<sup>9</sup>, 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 85<sup>th</sup> 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.

<sup>8</sup> National Cooperative Highway Research Program Report 279 Intersection Channelization Design Guide, 1985.

<sup>9</sup> A Policy on Geometric Design of Highways and Streets, 7<sup>th</sup> Edition, American Association of State Highway and Transportation Officials, 2018.

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 <sup>th</sup> 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.<sup>10</sup> 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 <sub>a</sub>	%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

<sup>10</sup> Volume Warrants for Left-Turn Storage Lanes at Unsignalized Grade Intersections. Highway Research Record "Issue Number 211", 1967.

## CONCLUSIONS

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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

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**Site Information**

**Trip Generation**

**HCM Analysis – 2023 No-Build**

**HCM Analysis – 2033 No-Build**

**HCM Analysis – 2023 Build**

**HCM Analysis – 2023 Build**

## **Site Information**

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## **Trip Generation**

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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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				11.0								
HCM 2010 LOS				B								

Intersection						
Int Delay, s/veh	1.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
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				
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		2.9		11.7		3.4		9.9				
Green Ext Time (p_c), s		0.1		2.2		0.1		3.1				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				11.4								
HCM 2010 LOS				B								

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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				12.1								
HCM 2010 LOS				B								

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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				12.8								
HCM 2010 LOS				B								

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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				11.8								
HCM 2010 LOS				B								

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				11.2								
HCM 2010 LOS				B								

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	0
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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay			12.6									
HCM 2010 LOS			B									

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
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				
<b>Intersection Summary</b>												
HCM 2010 Ctrl Delay				11.9								
HCM 2010 LOS				B								

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**