



**MATANUSKA-SUSITNA BOROUGH  
AREA SCHOOL SITE SELECTION COMMITTEE  
APRIL 14, 2021 MEETING AGENDA**

Location: MSB Assembly Chambers  
350 E. Dahlia Ave, Palmer AK 99645

Date: April 14, 2021  
2 pm -4 pm

Remote Participation:

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

[+1 907-290-7880,,617322846#](#) United States,

Anchorage

Phone Conference ID: 617 322 846#

**Committee Members**

Kristina Adamczak - Community At-Large	Ole Larson – School Board
Vacant - Community At-Large	James Hart - School Board Alt.
Jesse Sumner - Assembly	Brandt Bowen - Birchtree Charter Rep.
Robert Yundt - Assembly	Susan McCauley - Birchtree Charter Rep.
Mary Anderson - Planning Commission	Becky Huggins - American Charter Rep.
Patricia Chesbro - Planning Commission Alt.	Stephanie Maynard - American Charter Rep.
Thomas Bergey - School Board	

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**I. Call to Order, Roll and Determination of Quorum**

**II. Approval of Agenda**

**III. Approval of Minutes**

**IV. Old Business**

- A. Potential Mat-Su Central Site – Stringfield Rd.
  - a. 2018 HDL Site Evaluation – Stringfield Rd. & Seldon-Church
- B. A resolution of the Matanuska-Susitna Borough Area School Site Selection Committee recommending a permanent site for Mat-Su Central School.

**V. Items for Information**

- A. Potential school sites – American Charter Academy
- B. Potential school sites – Birchtree Charter School

**VI. Public Comments (Three minutes per person)**

**VII. Staff Comments**

**VIII. Committee Members Comments**

**IX. Next Meeting**

**X. Adjourn**



**MATANUSKA-SUSITNA BOROUGH  
AREA SCHOOL SITE SELECTION COMMITTEE  
FEBRUARY 18, 2021 MEETING AGENDA**

Location: MSB Assembly Chambers  
350 E. Dahlia Ave, Palmer AK 99645

Date: February 18, 2021  
10 am -12 pm

Remote Participation:

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

[+1 907-290-7880,,349685911#](#) United States,

Anchorage

Phone Conference ID: 349 685 911#

**Committee Members**

Kristina Adamczak - Community At-Large

Jesse Sumner - Assembly

Vacant - Assembly

Mary Anderson - Planning Commission

Patricia Chesbro - Planning Commission Alt.

Thomas Bergey - School Board

Ole Larson - School Board

James Hart - School Board Alt.

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**I. Call to Order, Roll and Determination of Quorum**

Meeting called to order at 10:12 am

*Present:*

Kristina Adamczak

Jesse Sumner

Mary Anderson

Thomas Bergey

*Absent:*

Patricia Chesbro

Ole Larson

James Hart

Quorum was established

*Staff & Guest Speakers Present:*

Adam Bradway, Planner II

John Aschenbrenner, Deput Borough Attorney

Nancy Cameron, Land Management Agent

John Brown, Principal of Mat Su Central School

Luke Fulp, MSBSD Deputy Superintendent of Business & Operations

Becky Huggins, Principal of American Charter Academy  
Brandt Bowen, Principal of Birchtree Charter School

## **II. Election**

**Motion:** Mr. Sumner moved to nominate Mr. Bergey as Chairperson, Ms. Anderson 2<sup>nd</sup>. No objections. Mr. Bergey confirmed as Chairperson.

**Motion:** Ms. Adamczak moved to nominate herself as Vice Chairperson, Mr. Sumner 2<sup>nd</sup>. No objections. Ms. Adamczak confirmed as Vice Chairperson.

## **III. Approval of Agenda**

**Motion:** Ms. Anderson moved to accept the agenda as written, Mr. Sumner 2<sup>nd</sup>. Agenda approved as written.

## **IV. Items for Information**

### **A. Review of School Site Selection process**

Mr. Bradway gave an overview of the process.

Mr. Aschenbrenner, Deputy Borough Attorney, gave an overview of legal considerations.

### **B. Potential school sites – MSB land**

### **C. Potential Mat-Su Central site – N Stringfield Road**

Mr. Brown gave an overview of Mat-Su Centrals needs, along with Mr. Fulp. Mr. Fulp gave an overview of Mat-Su Centrals statistics as well as the benefits of the N Stringfield Road property.

### **D. Review of School Board resolutions**

#### **1. American Charter Academy**

Ms. Huggins gave an overview of American Charter Academy's current building and their future needs.

**Motion:** Ms. Anderson moved to direct staff to look at Borough owned properties for American Charter Academy that are between Church Road and Knik Goose Bay Road. Mr. Sumner 2<sup>nd</sup> and moved to amend the motion to additionally search for private property if no suitable Borough property could be identified. No objections, motion passed.

#### **2. Birchtree Charter School**

Mr. Bowen spoke about Birchtree's current building and its issues as well as describing what type of property would be most beneficial for the Waldorf model.

**Motion:** Ms. Anderson moved to direct staff to look at Borough owned properties for Birchtree Charter School in the four corners area, Ms. Adamczak 2<sup>nd</sup>. Mr. Sumner moved to amend the motion to include privately owned property if no suitable Borough owned property could be found. Amendment failed. No objections, motion passed.



## **V. Draft Resolutions for Information Only**

- A. A resolution of the Matanuska-Susitna Borough Area School Site Selection Committee recommending a permanent site for Mat-Su Central School.

## **VI. Public Comments (Three minutes per person)**

None.

## **VII. Staff Comments**

Mr. Bradway thanked the Committee for convening and getting this process restarted. The next meeting will include updates on the process. Mr. Bradway also explained that when it comes time for the Committee to vote on a specific site, additional Board members will be added, including two members from the charter school that the site is being selected for.

Ms. Cameron briefly clarified the arrangement of a privately owned building being on Borough owned property.

## **VIII. Committee Members Comments**

Ms. Adamczak expressed her discomfort with site three. Ms. Adamczak wondered if Birchtree and Mat Su Central would be willing to share site five or the North Stringfield Road property. She also expressed a desire for Borough staff to look more closely at the adjacent road related issues.

Ms. Anderson stated that it was good to have the Committee back together and that there appeared to be some good opportunities for these three schools.

Mr. Bergey thanked staff for convening the Committee. Mr. Bergey wanted to clarify when the next meeting would take place. Mr. Bergey requested that April 8<sup>th</sup> be set aside as a placeholder for the next meeting.

Mr. Sumner – none.

## **IX. Next Meeting**

Tentative - April 8, 2021

## **X. Adjourn**

**Motion:** Ms. Adamczak moved to adjourn the meeting, Ms. Anderson 2<sup>nd</sup>. Meeting adjourned at 11:58 am.





**MATANUSKA-SUSITNA**  
BOROUGH SCHOOL DISTRICT



**OFFICE OF THE SCHOOL BOARD**

**MATANUSKA-SUSITNA BOROUGH SCHOOL BOARD  
RESOLUTION 20-009**

**A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH SCHOOL BOARD SUPPORTING INITIATION OF THE FORMAL PROCESS TO IDENTIFY THE LOCATION OF A PERMANENT FACILITY FOR MAT-SU CENTRAL SCHOOL AT 1959 N. STRINGFIELD ROAD TO BE KNOWN AS "STRINGFIELD SUBDIVISION."**

**WHEREAS**, the Matanuska-Susitna Borough School District has leased Mat-Su Central School building and property from a private entity for over 20 years for the purpose of a correspondence school; and

**WHEREAS**, the current lease agreement for Mat-Su Central School is set to expire on June 30, 2021 with the option for an additional extension; and

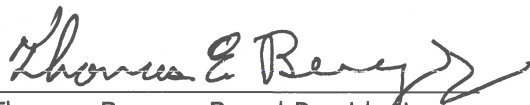
**WHEREAS**, Mat-Su Central School needs a permanent facility to support its growing student population and innovative programs; and

**WHEREAS**, in cooperation with the Mat-Su Borough, the District has identified 1959 N. Stringfield Road to be known as "Stringfield Subdivision" (Appendix A) as a possible location for Mat-Su Central School; and

**WHEREAS**, MSB 19.08.020 provides for a School Site Selection Committee which shall make recommendations to the Assembly on the needs for school sites.

**NOW, THEREFORE BE IT RESOLVED** that the Matanuska-Susitna Borough School Board supports the initiation of the formal process to identify the location of a permanent facility for Mat-Su Central School at 1959 N. Stringfield Road to be known as "Stringfield Subdivision."

**APPROVED** by the Matanuska-Susitna Borough School Board this 5<sup>th</sup> day of February, 2020.

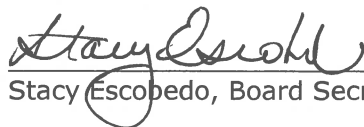


Thomas Bergey, Board President



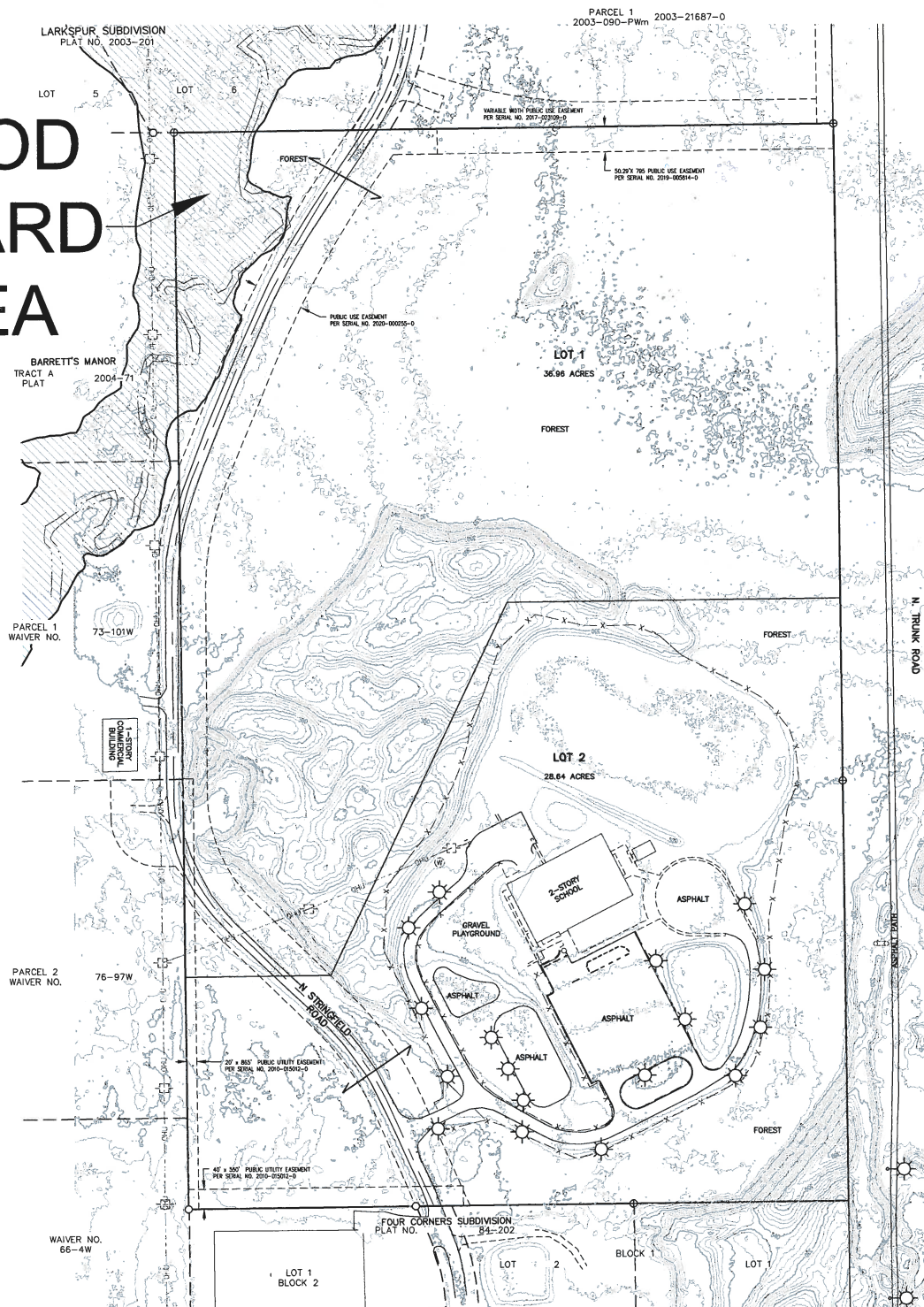
Dr. Monica Goyette, Superintendent

ATTEST:



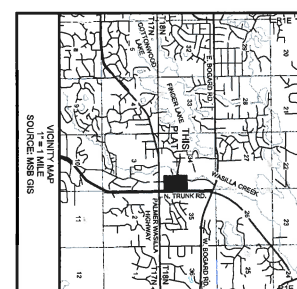
Stacy Escobedo, Board Secretary



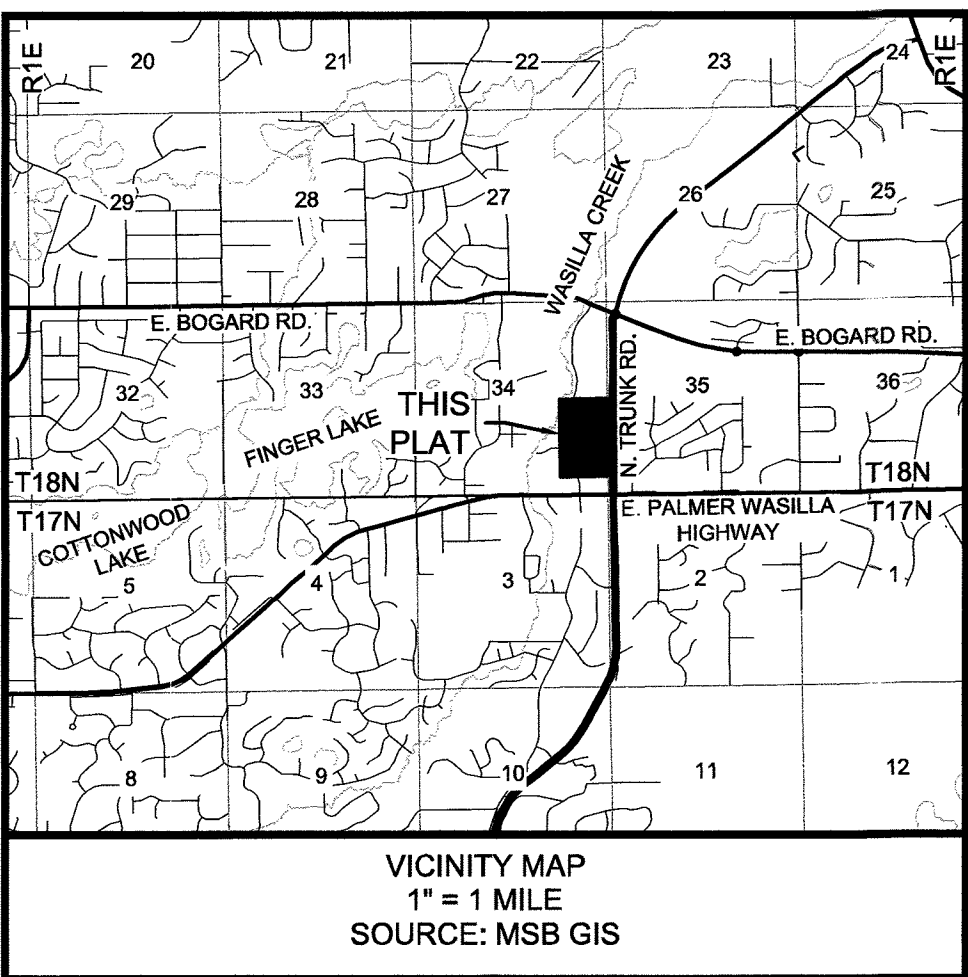


I HEREBY CERTIFY THAT I HAVE PERFORMED A SURVEY OF PARCEL C OF WATER RESOLUTION NO. 81-12-PHM, RECORDED AS PLAT NO. 84-258K PALMER RECORDING DISTRICT, ALASKA.

AND THAT THE IMPROVEMENTS AS DEPICTED HEREON EXIST AS SHOWN IN RELATION TO THE PROPERTY LINES. EXISTENCE OF RECORD ARE NOT SHOWN HEREON UNLESS OTHERWISE NOTED.

[illegible]





I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN  
AND DESCRIBED ON THIS PLAN AND THAT I ADOPT THIS PLAN OF  
SUBDIVISION BY MY FREE CONSENT.

**NOTARY ACKNOWLEDGMENT**  
SUBSCRIBED AND SWORN TO BEFORE ME  
THIS 14<sup>TH</sup> DAY OF AUGUST, 2020  
FOR JOHN MOOSEY GEORGE HAYS.

**NOTARY FOR THE STATE OF ALASKA**

MY COMMISSION EXPIRES 3-13-2021

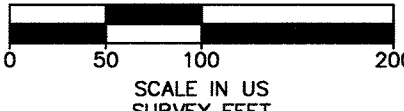
I HEREBY CERTIFY THAT ALL CURRENT TAXES AND SPECIAL ASSESSMENTS, THROUGH Dec 31, 2020, AGAINST THE PROPERTY, INCLUDED IN THE SUBDIVISION OR RESUBDIVISION, HEREON HAVE BEEN PAID.

# PLANNING & LAND USE DIRECTOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS SUBDIVISION PLAT HAS BEEN FOUND TO COMPLY WITH THE LAND SUBDIVISION REGULATIONS OF THE MATANUSKA-SUSITNA BOROUGH, AND THAT THE PLAT HAS BEEN APPROVED BY THE PLATTING AUTHORITY BY PLAT RESOLUTION NO. 2020-104 DATE 2-27, 2020, AND THAT THIS PLAT HAS BEEN APPROVED FOR RECORDING IN THE PALMER RECORDING DISTRICT, THIRD JUDICIAL DISTRICT, STATE OF ALASKA, IN WHICH THE PLAT IS LOCATED.

10/27/2010   
DATE PLANNING & LAND USE DIRECTOR

ATTEST: Kenneth C. McClellan  
PLATTING CLERK



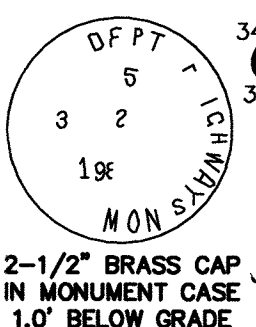
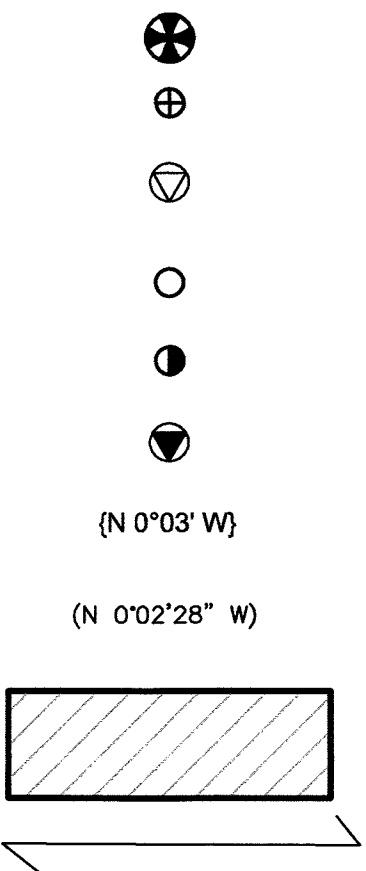
1. THERE MAY BE FEDERAL, STATE AND LOCAL REQUIREMENTS GOVERNING LAND USE. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL PARCEL OWNER TO OBTAIN A DETERMINATION WHETHER SUCH REQUIREMENTS APPLY TO THE DEVELOPMENT OF PARCELS SHOWN HEREON.
2. A PORTION OF THIS PARCEL LIES WITHIN FLOOD ZONE A, AS DEPICTED ON THE FEMA FLOOD MAP NUMBER 02170C8130F, EFFECTIVELY DATED SEPTEMBER 27, 2019, PRD.
3. A BLANKET EASEMENT IN FAVOR OF MATANUSKA ELECTRIC ASSOCIATION, INC EXISTS AT BOOK 11, PAGE 250, PRD.
4. A BLANKET EASEMENT IN FAVOR OF MATANUSKA ELECTRIC ASSOCIATION, INC EXISTS AT BOOK 32, PAGE 98, PRD.
5. A BLANKET EASEMENT IN FAVOR OF MATANUSKA ELECTRIC ASSOCIATION, INC EXISTS AT BOOK 37, PAGE 97, PRD.
6. A BLANKET EASEMENT IN FAVOR OF MATANUSKA TELEPHONE ASSOCIATION, INC EXISTS AT BOOK 147, PAGE 992, PRD.
7. A BLANKET EASEMENT IN FAVOR OF MATANUSKA TELEPHONE ASSOCIATION, INC EXISTS AT BOOK 148, PAGE 1, PRD.
8. A PORTION OF LOT 1 IS IN FLOOD ZONE AE WITH A BASE FLOOD ELEVATION OF 322-329 FEET, AS DEPICTED ON THE FEMA FLOOD MAP PANEL NUMBER 020021 8130 F, EFFECTIVE SEPTEMBER 27, 2019.
9. NO INDIVIDUAL WATER SUPPLY SYSTEM OR SEWAGE DISPOSAL SYSTEM SHALL BE PERMITTED ON ANY LOT. THE WASTE WATER 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.

I, DAYNA RUMFELT LS-13322, 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.

DAYNA M. RUMFELT PLS  
REGISTERED LAND SURVEYOR  
LS-13322



FOUND BRASS CAP-AS SHOWN AND DESCRIBED  
FOUND ALUMINUM CAP-AS SHOWN AND DESCRIBED  
FOUND PRIMARY MONUMENT - AS SHOWN AND  
DESCRIBED  
FOUND 5/8" REBAR / 5/8" REBAR WITH PLASTIC CAP  
-AS SHOWN AND DESCRIBED  
SET 5/8" x 30" REBAR WITH PINK PLASTIC CAP TYP.  
SET 3/4" X 3' DRIVE ROD WITH 2-1/2" ALUMINUM CAP -  
AS SHOWN  
RECORD DATA PER BLM TOWNSHIP MAP ACCEPTED  
APRIL 2, 1915  
RECORD DATA PER RECORD WAIVER RESOLUTION NO.  
84-12-PWm, RECORDED AS PLAT 84-33W, PRD.  
FLOOD HAZARD AREA  
PARCEL CONTINUES



MSB  
•  
13322-S

2020-96  
Plot #  
Palmer  
Rec Dist  
10/30/ 20 20  
Date  
Time 9:28 A M

PLAT OF <b>STRINGFIELD SUBDIVISION</b>		
A SUBDIVISION OF PARCEL 1 OF WAIVER RESOLUTION NO 84-12-PWm, RECORDED AS PLAT NO. 84-43W, LOCATED IN SEC. 34, T. 18 N., R. 1 E., SEWARD MERIDIAN, THIRD JUDICIAL DISTRICT PALMER RECORDING DISTRICT STATE OF ALASKA CONTAINING 65.62 ACRES		
<b>MATANUSKA-SUSITNA BOROUGH</b> <b>CAPITAL PROJECTS DEPARTMENT</b> 350 E. DAHLIA AVENUE PALMER, AK 99645 907-861-7727		
DRAWN BY: DMR	SCALE: 1" = 100'	DWG: 19-0101p
CHECKED BY: NC	DATE: 4/3/2020	SHEET 1 OF 1





# Stringfield Subdivision Palmer, Alaska

## Geotechnical Investigation

January 2020

### Location

The subject property is fronting Stringfield Road North of the Palmer Wasilla Highway about 4 miles west of Palmer, Alaska. It is Lot D15 of Section 34, Township 18 N, Range 1 E, Seward Meridian, Alaska.

### Scope of Investigation

This investigation is to verify useable areas and identify soils useful for development. This is presently the site of Pioneer Peak Elementary School. The proposed subdivision divides one approximately 44-acre parcel into 2 parcels.

### Findings

1. The soils observed in Test Pit #1 (in the flat area on the northern part of the site) consisted of peat and silt with gravel at depth. Ground water was 6' deep during excavation, but only 1.7 feet on 1/24/2020. We expect water depth to vary seasonally.
2. The soils in Test Pits #2 and #3 consisted of 4 to 5 feet of silt over gravel. After excavation and removal of the surficial silt, the gravel from the locations we tested would be suitable for high quality borrow such as DOT Selected Material Type A. No ground water was encountered in this area.
3. The gravel areas identified in Test Pits #2 and #3 would be suitable for building construction or on-site wastewater disposal, but may need some leveling to qualify as useable septic area due to the steepness of the terrain.
4. No bedrock or impermeable soil layer was encountered.

## General Topography

Portions of the subdivision is relatively flat terrain. Others areas have low but steep undulating terrain. Vegetation consisting of birch, alders and spruce is relatively heavy.

## Field Exploration

The investigation included three test pits. Exploration was conducted on Jan. 20, 2020 using a Komatsu 150 excavator, operated by Rob Cox of Earth Matters Excavating. Exploration was supervised and the test holes logged by Tyler Hansen.

The approximate test pit locations are shown on the attached location map. Test pits were located in the field using handheld GPS. The GPS coordinates are shown on the logs. Note that the locations by handheld GPS are not as precise as survey GPS.

## Test pit Logs

Descriptions of the soils encountered are recorded on the right side of the field logs. The moisture content, type and location of samples, and the general soil type are shown graphically on the left side.

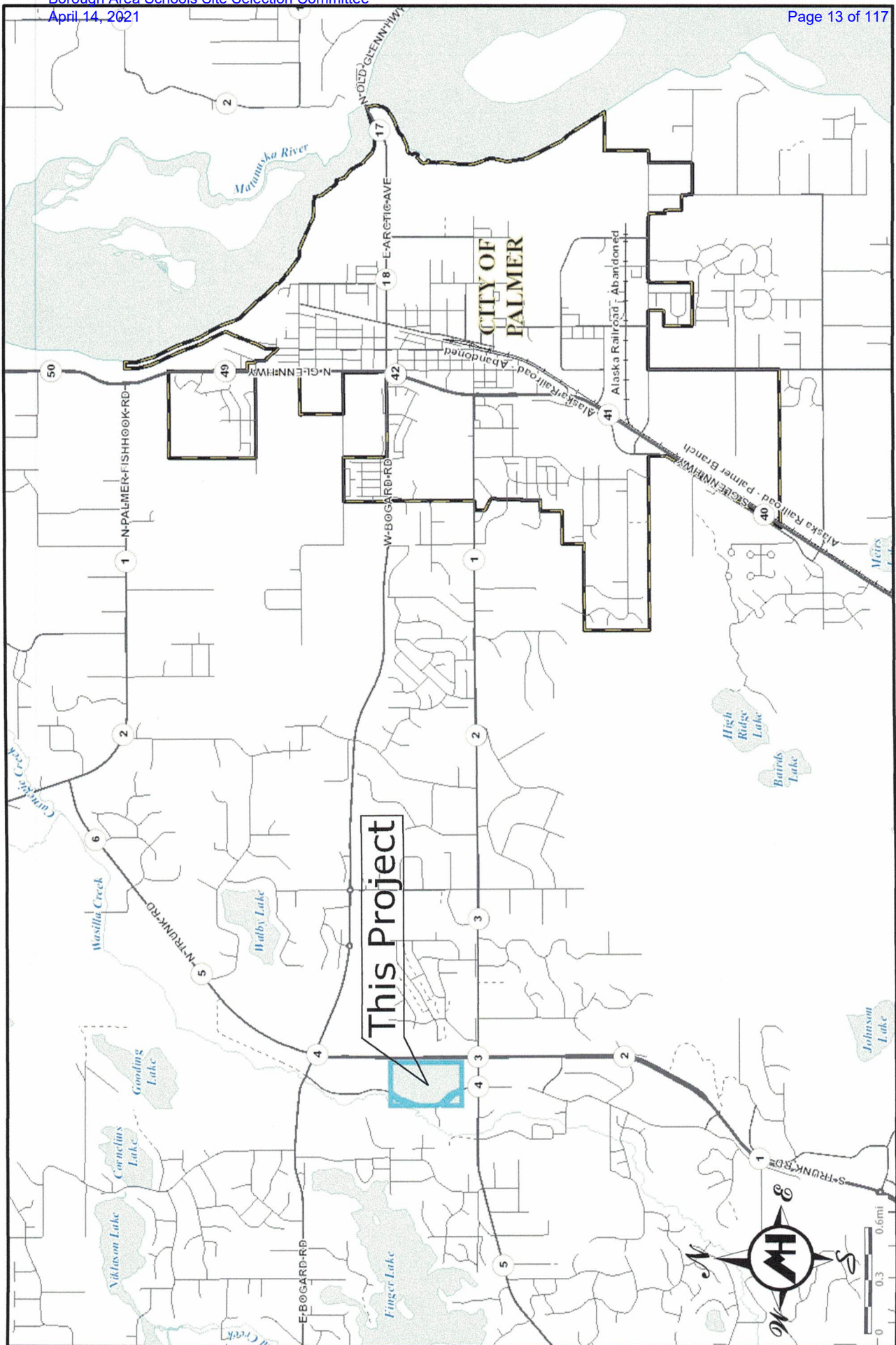
## Laboratory

In the laboratory, the samples were visually classified according to frost and unified classification and the moisture content determined. A sieve analysis was performed on selected samples. The results of these analyses are shown on the testing summary attached.



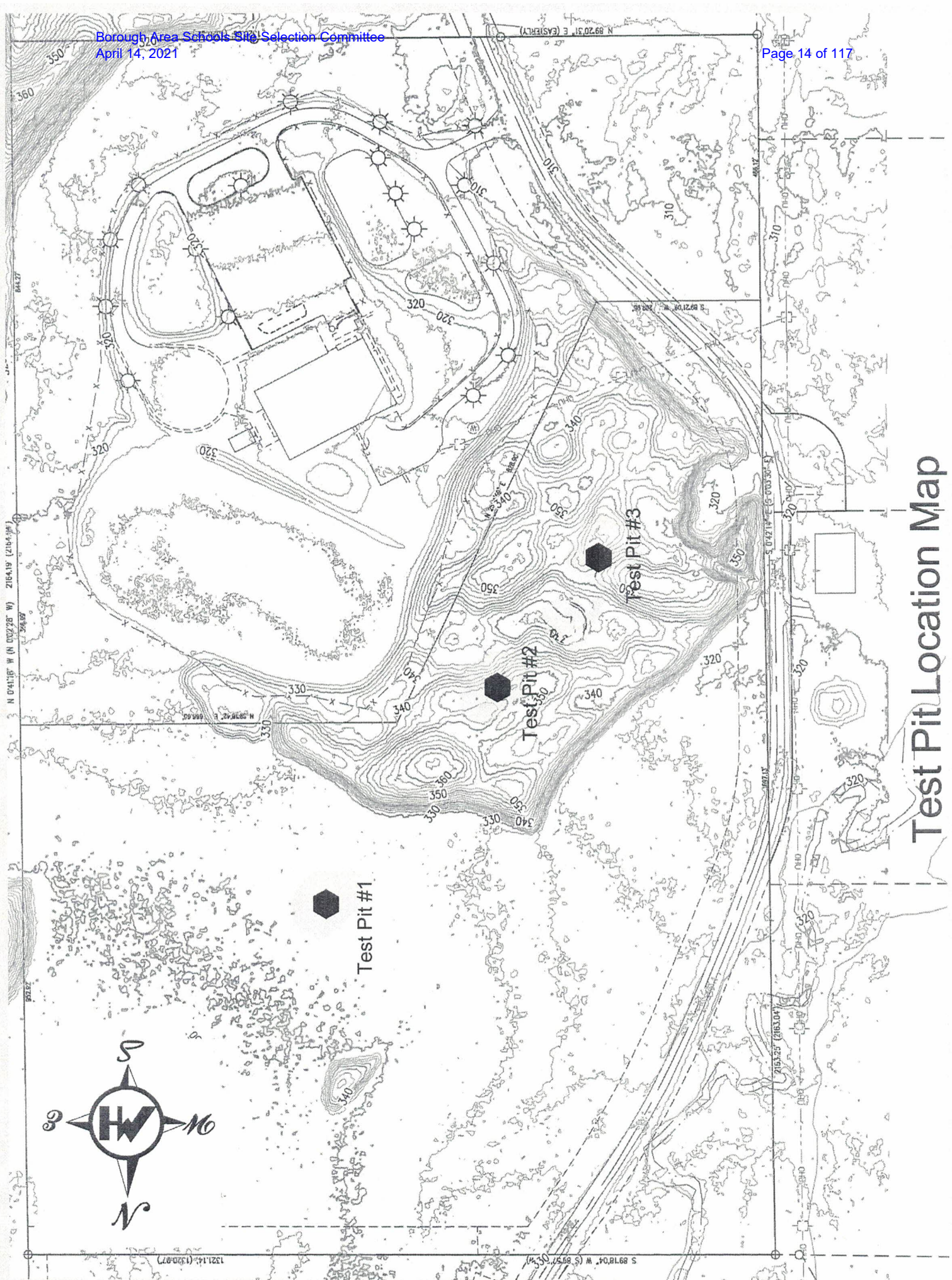
1-24-2020





Vicinity Map

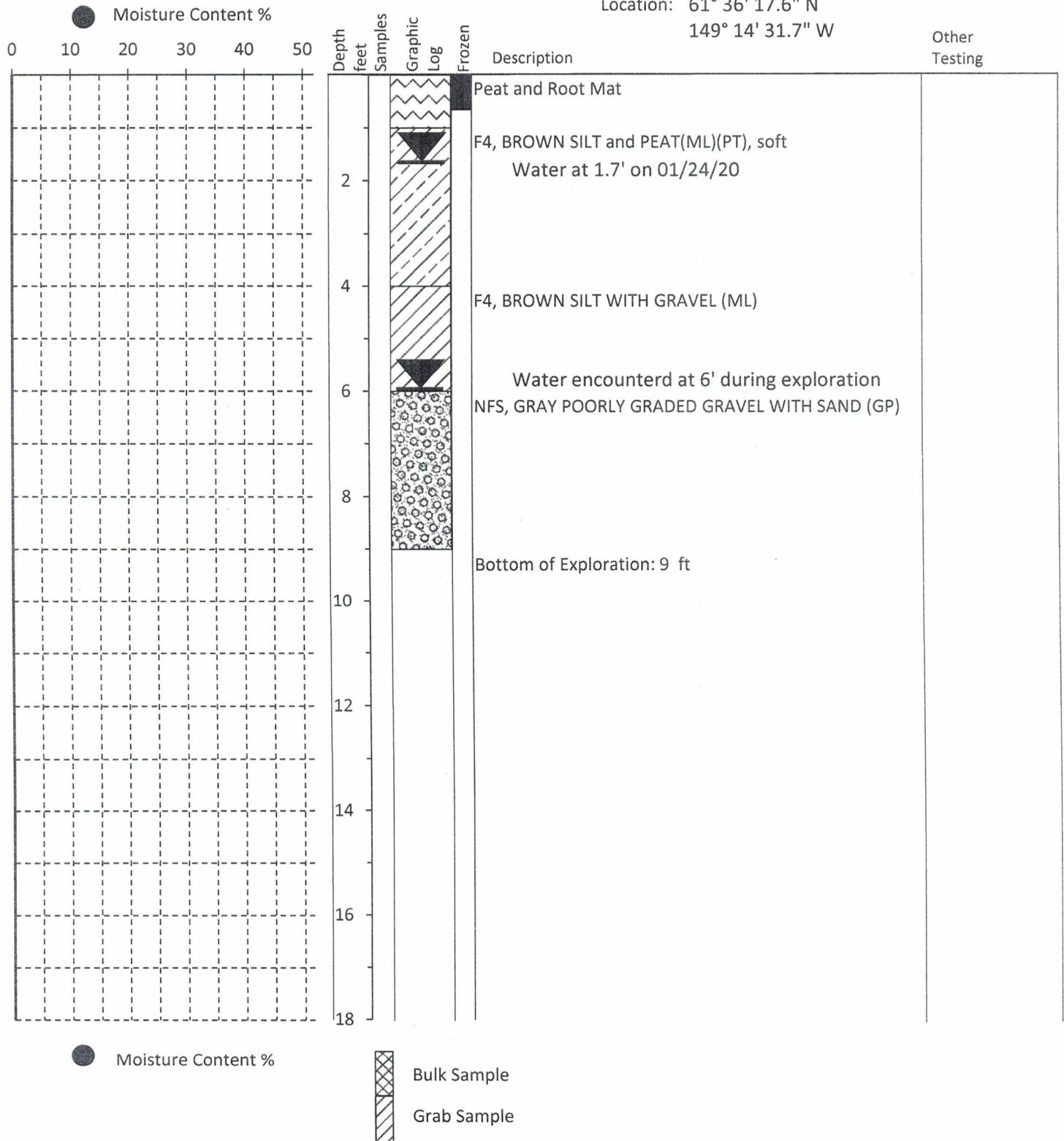




# Test Pit Location Map



Exploration: January 20, 2020  
Equipment: Komatsu 150 Excavator  
Location: 61° 36' 17.6" N  
149° 14' 31.7" W



**MARK HANSEN P.E.**

CONSULTING ENGINEERS TESTING LABORATORY  
2605 N. Old Glenn Hwy, Palmer, AK 99645 Phone:(907)745-4721  
e-mail: mhpe@mtaonline.net

Job No.: 20001

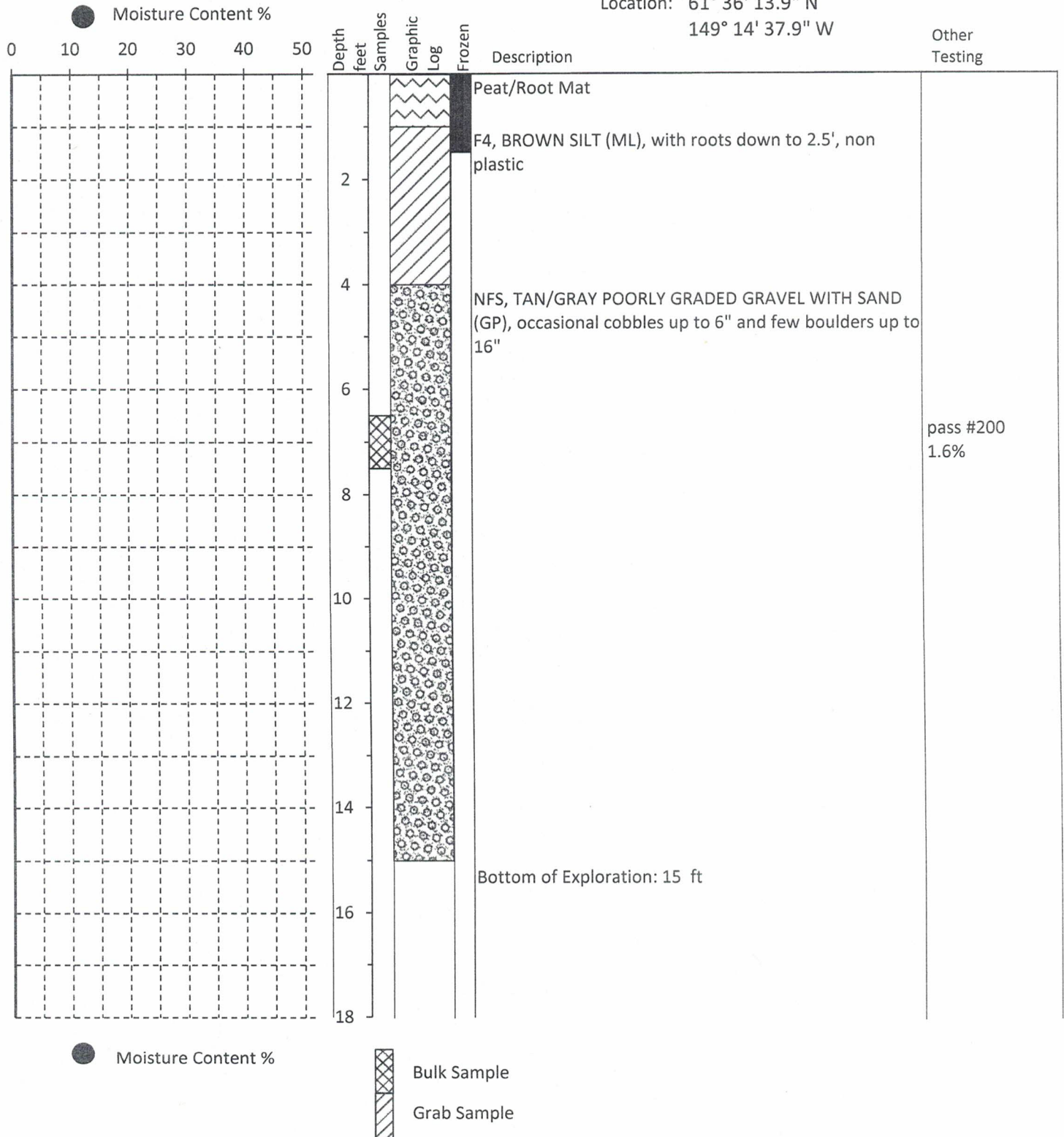
Date: January 2020

## Log of Test Pit 1

**Stringfield Subdivision**  
Matanuska-Susitna Borough  
350 E Dahlia Ave  
Palmer, AK 99645

Plate  
**1**

Exploration: January 20, 2020  
Equipment: Komatsu 150 Excavator  
Location: 61° 36' 13.9" N  
149° 14' 37.9" W



**MARK HANSEN P.E.**

CONSULTING ENGINEERS TESTING LABORATORY  
2605 N. Old Glenn Hwy, Palmer, AK 99645 Phone: (907) 745-4721  
e-mail: mhpe@mtaonline.net

Job No.: 20001

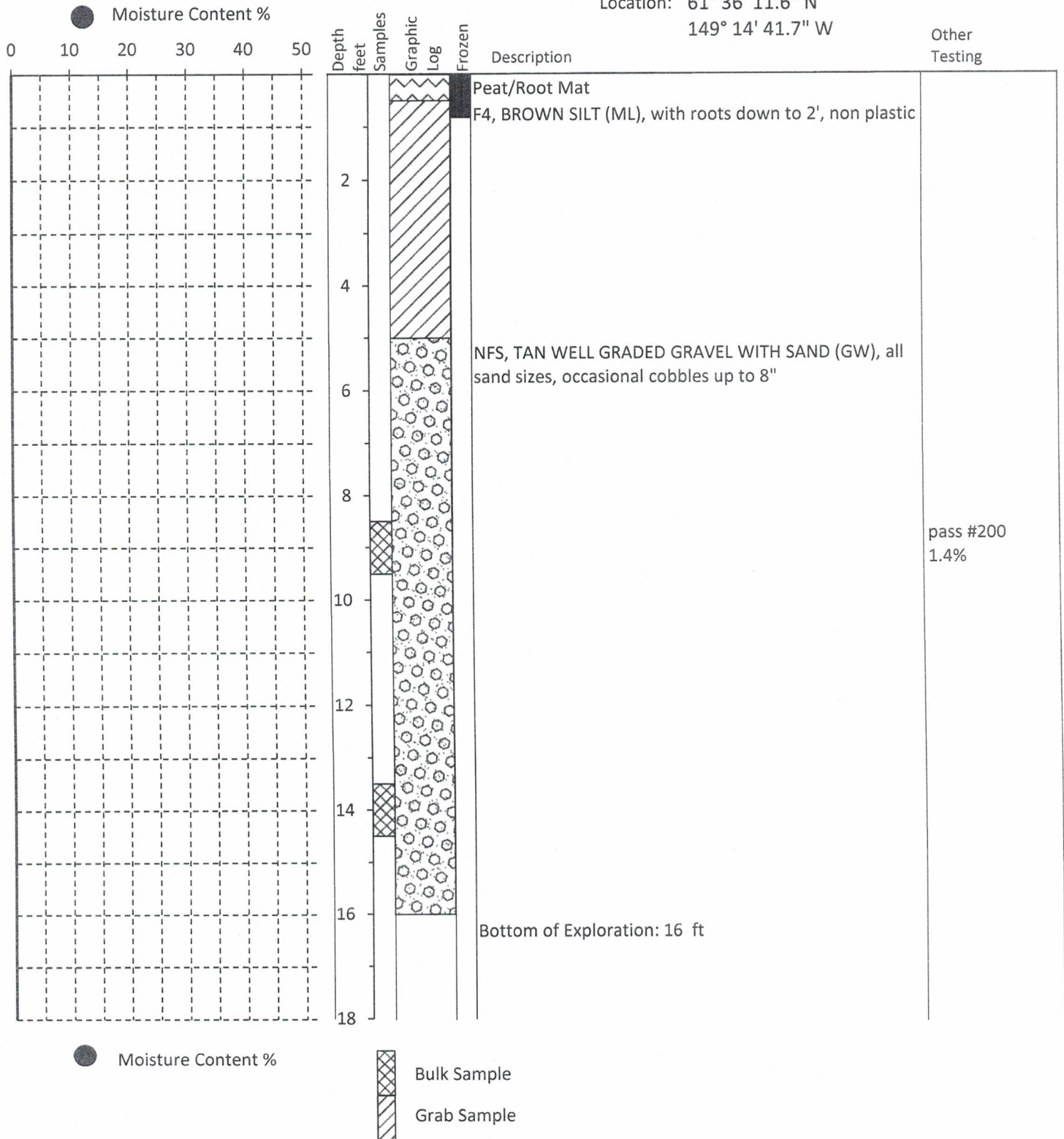
Date: January 2020

**Log of Test Pit 2**

**Stringfield Subdivision**  
Matanuska-Susitna Borough  
350 E Dahlia Ave  
Palmer, AK 99645

Plate  
**2**

Exploration: January 20, 2020  
Equipment: Komatsu 150 Excavator  
Location: 61° 36' 11.6" N  
149° 14' 41.7" W



**MARK HANSEN P.E.**

CONSULTING ENGINEERS TESTING LABORATORY  
2605 N. Old Glenn Hwy, Palmer, AK 99645 Phone: (907) 745-4721  
e-mail: mhpe@mtaonline.net

Job No.: 20001

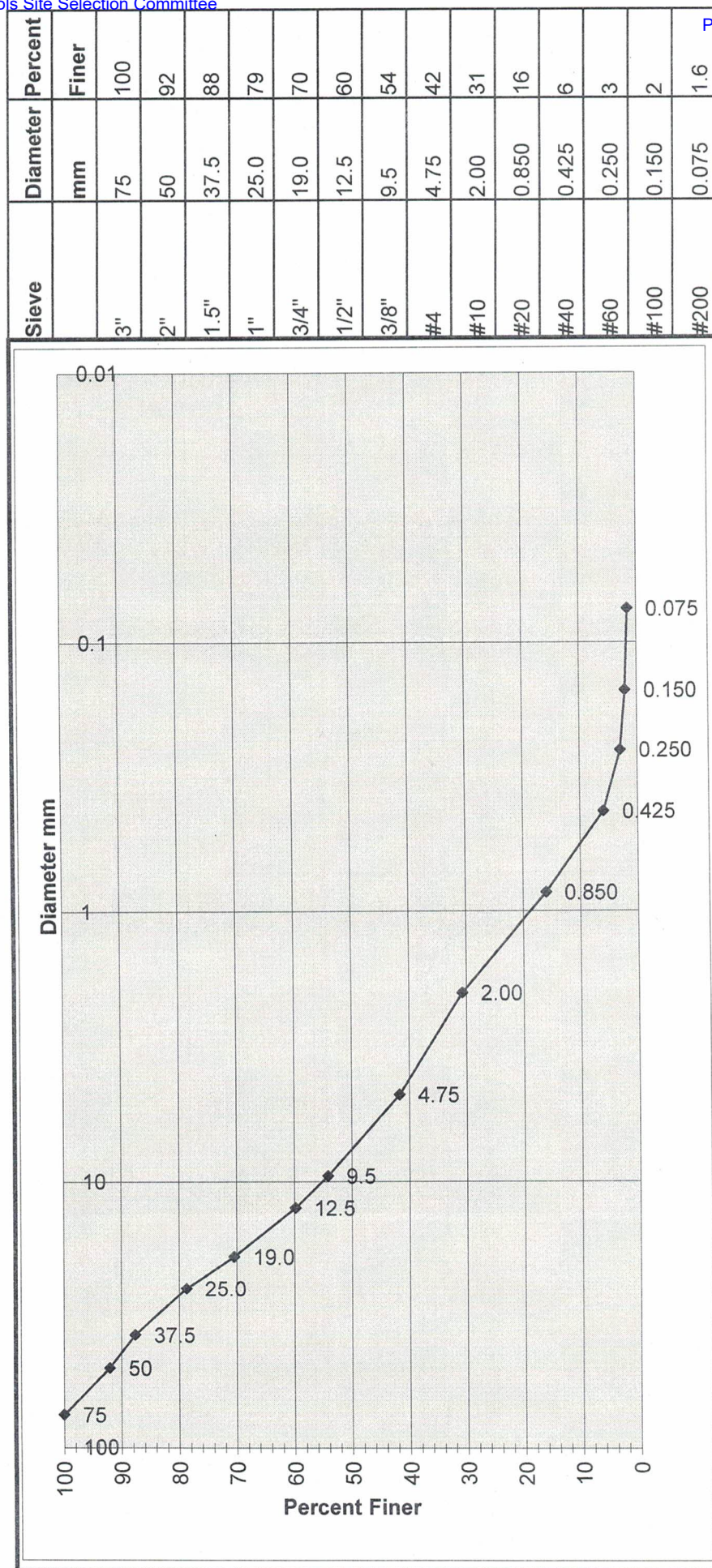
Date: January 2020

**Log of Test Pit 3**

**Stringfield Subdivision**  
Matanuska-Susitna Borough  
350 E Dahlia Ave  
Palmer, AK 99645

Plate  
**3**





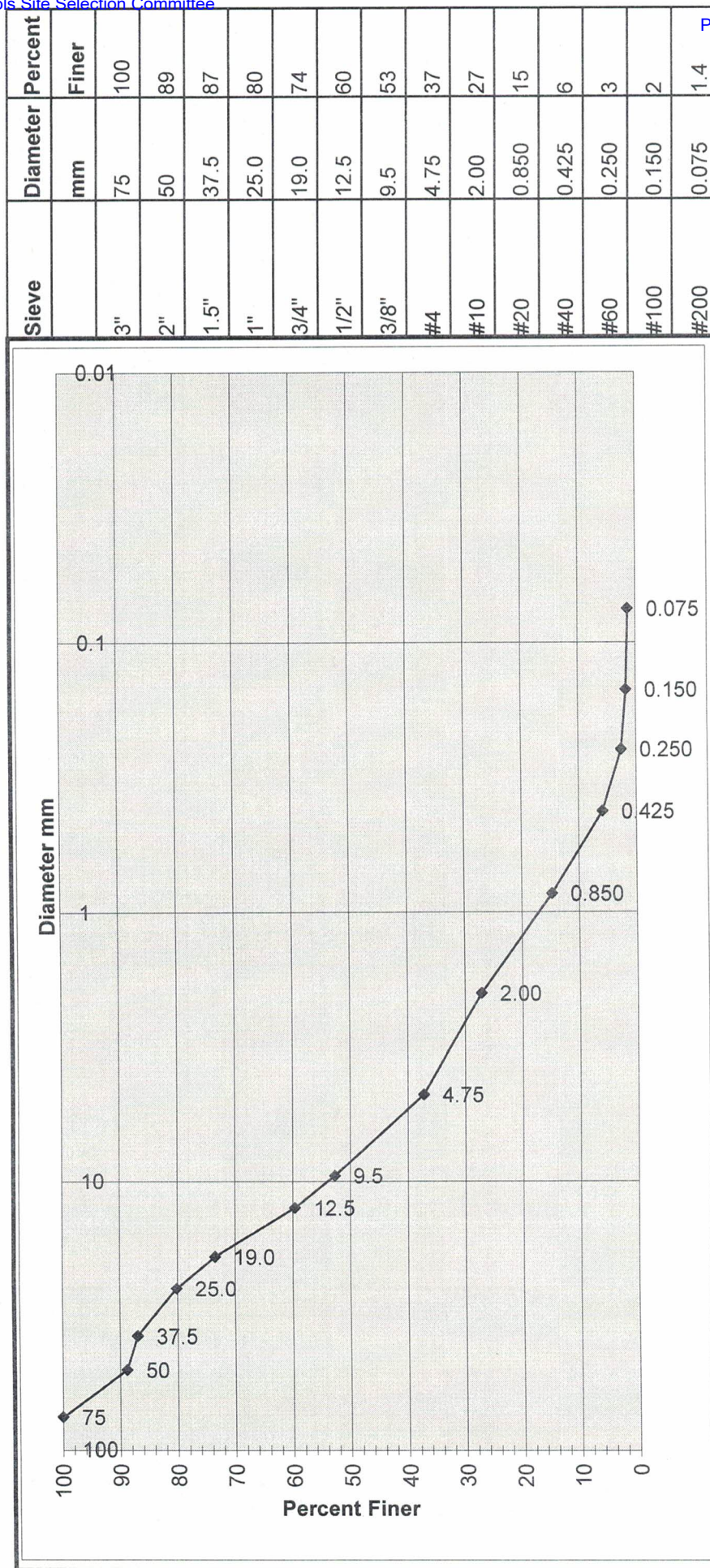
Date 1/23/2020  
Sample Date: 1/20/2020  
C<sub>u</sub>= 21  
C<sub>c</sub>= 0.5  
Proj. no: 20001

Client: **Matanuska Sustina Borough** Soil Description: Poorly Graded Gravel with Sand

Project Stringfield Subdivision Unified Classification: GP

Sample Location: TP #2 @ 7'





Date: 1/23/2020  
Sample Date: 1/20/2020  
Proj. no: 20001  
C<sub>u</sub>= 21  
C<sub>c</sub>= 1.0

Client: **Matanuska Sustina Borough**  
Project: Stringfield Subdivision  
Sample Location: TP #3 @ 9'  
Soil Description: Well Graded Gravel with Sand  
Unified Classification: GW



## GRAPHICS LOG KEY

GW		WELL GRADED GRAVEL, SANDY GRAVEL
GP		POORLY GRADED GRAVEL, SANDY GRAVEL
GM		SILTY GRAVELS, SILT SAND GRAVEL MIXTURES
GC		CLAYEY GRAVELS, CLAY SAND GRAVEL MIXTURES
SW		WELL GRADED SAND, GRAVELLY SAND
SP		POORLY GRADED SAND, GRAVELLY SAND
SM		SILTY SAND, SILT GRAVEL SAND MIXTURES
SC		CLAYEY SAND, CLAY GRAVEL SAND MIXTURES
ML		INORGANIC SILT, VERY FINE SAND, ROCK FLOUR
CL		GRAVELLY AND SANDY CLAY, SILTY CLAY
OL		ORGANIC SILT AND CLAY OF LOW PLASTICITY
MH		ORGANIC SILT
CH		INORGANIC CLAY, FLAT CLAY
OH		ORGANIC SILT, CLAY OF HIGH PLASTICITY
Pt		PEAT AND OTHER HIGHLY ORGANIC SOILS
		ASPHALT CONCRETE PAVEMENT
		ROCK
		CONCRETE



## ASTM Soil Classification Chart

Criteria for assigning Group Symbols and Group Names Using Laboratory Tests <sup>A</sup>				Soil Classification	
				Group Symbol	Group name <sup>B</sup>
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve.	Clean Gravels	$Cu \geq 4$ and $1 \leq Cc \leq 3^E$	GW	Well graded gravel <sup>F</sup>
		Less than 5% fines <sup>C</sup>	$Cu < 4$ and /or $1 > Cc \geq 3^E$	GP	Poorly graded gravel <sup>F</sup>
	Sands 50% or more of coarse fraction passed No. 4 sieve	Gravel with Fines More than 12% fines <sup>C</sup>	Fines classify as ML or MH	GM	Silty gravel <sup>F,G,H</sup>
		Clean Sands	$Cu \geq 6$ and $1 \leq Cc \leq 3^E$	GC	Clayey gravel <sup>F,G,H</sup>
		Less than 5% fines <sup>D</sup>	$Cu < 6$ and /or $1 > Cc \geq 3^E$	SW	Well graded sand
Fine-Grained Soils 50% or more passes the No. 200 Sieve	Sands 50% or more of coarse fraction passed No. 4 sieve	Sands with fines more than 12% fines <sup>D</sup>	$Cu < 6$ and /or $1 > Cc \geq 3^E$	SP	Poorly graded sand <sup>I</sup>
		Inorganic	Fines classify as ML or MH	SM	Silty sand <sup>G,H,I</sup>
	Silt and Clays Liquid limits less than 50	Organic	Fines classify as CL or CH	SC	Clayey sand <sup>G,H,I</sup>
		Organic	PI > 7 and plots on or above "A" line <sup>J</sup>	CL	Lean Clay <sup>K,L,M</sup>
		Organic	PI < 4 or plots below "A" line <sup>J</sup>	ML	Silt <sup>K,L,M</sup>
Highly organic soils	Silt and Clays Liquid limits 50 or more	Organic	Liquid limit - oven dried $< 0.75$	OL	Organic Clay <sup>K,L,M,N</sup>
		Inorganic	PI plots on or above "A" line	CH	Fat Clay
	Primarily organic matter, dark in color, and organic odor	Organic	PI plots below "A" line	MH	Elastic silt <sup>K,L,M</sup>
		Organic	Liquid limit - oven dried $< 0.75$	OH	Organic Clay <sup>K,L,M,P</sup>
		Organic	Liquid limit - not dried	PT	Peat

<sup>A</sup> Based on the material passing the 3-in. (75-mm) sieve.

<sup>B</sup> If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name

<sup>C</sup> Gravels with 5 to 12% fines require dual symbols

<sup>D</sup> GW-GM well-graded gravel with silt

<sup>E</sup> GW-GC well-graded gravel with clay

<sup>F</sup> GP-GM poorly graded gravel with silt

<sup>G</sup> GP-GC poorly graded gravel with clay

<sup>H</sup> Sands with 5 to 12% fines require dual symbols

<sup>I</sup> SW-SM well-graded sand with silt

<sup>J</sup> SW-SC well-graded sand with clay

<sup>K</sup> SP-SM poorly graded sand with silt

<sup>L</sup> SP-SC poorly graded sand with clay

<sup>M</sup>  $Cu = D_{60}/D_{10}$   $Cc = (D_{30})^2$

<sup>N</sup>  $D_{10} \times D_{60}$

<sup>F</sup> If soil contains  $\geq 15\%$  sand, add "with sand" to group name

<sup>G</sup> If fines classify as CL-ML, use dual symbol GC-GM or SC-SM

<sup>H</sup> If fines are organic, add "with organic lines" to group name.

<sup>I</sup> If soil contains  $\geq 15\%$  gravel, add "with gravel" to group name.

<sup>J</sup> If Atterberg limits plot in hatched area, soil is a CL-ML, silty soil.

<sup>K</sup> If soil contains 15 to 29 % plus No. 200, add

"with sand" or "with gravel," whichever is predominant.

<sup>L</sup> If soil contains  $\geq 30\%$  plus No. 200, predominantly sand, add "sandy" to group name.

<sup>M</sup> If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.

<sup>N</sup> PI  $\geq 4$  and plots on or above "A" line.

<sup>O</sup> PI  $< 4$  or plots below "A" line.

<sup>P</sup> PI plots on or above "A" line.

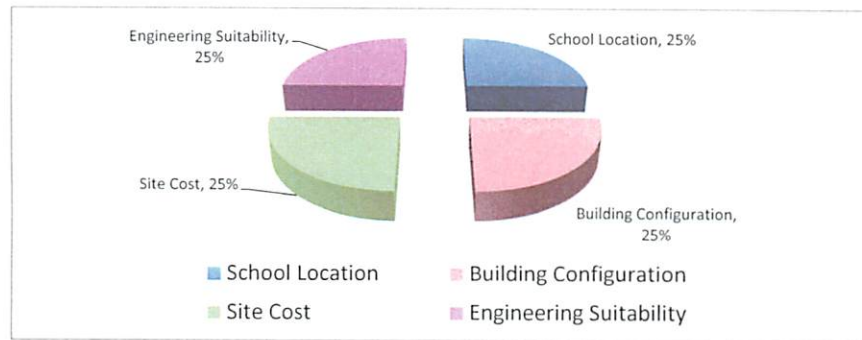
<sup>Q</sup> PI plots below "A" line.



U.S. Corps of Engineers  
Frost Design Soil Classification

Frost group	Soil Type	Percentage finer than 0.02mm, by weight	Typical soil types under Unified Soil Classification System
NFS	Sands and Gravelly soils	< 3	SP, SW, GP, GW
FI	Gravelly soils	3 to 10	GW, GP, GW-GM, GP-GM
F2	(a) Gravelly soils	10 to 20	GM, GW-GM, GP-GM
	(b) Sands	3 to 15	SW, SP, SM, SW-SM, SP-SM
F3	(a) Gravelly soils	>20	GM, GC
	(b) Sands, except very fine silty sands	>15	SM, SC
	(c) Clays, PI >12	----	CL, CH
F4	(a) All silts	----	ML, MH
	(b) Very fine silty sands	>15	SM
	(c) Clays, P <sub>I</sub> <12	----	CL, CL-ML
	(d) Varved clays and fine-grained, banded sediments	----	CL and ML CL, ML, and SM; CL, CH, and ML; CL, CH, ML, and SM

## Stringfield School Site Suitability Criteria - Summary - 1/29/21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning



### School Location Issues - 25 Points Possible

Scorer Comment: This school serves the entire MSB and is centrally located.

Criteria	Classification	Possible Points	
Center of Existing Student "Cloud"	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	8
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
Center of Existing Staff "Cloud"	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
Proximity to Fire Response Equipment	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
Proximity to Future Growth	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
Separation from Hazardous Materials Conduits	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	0
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
Separation from Social Hazards	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
Access to Outdoor Recreation / Learning Opportunities	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
Access to Cultural Resources	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
Proximity to Other Community Facilities	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	

### Building Configuration Issues - 25 Points Possible

Scorer Comment: Non-Traditional school. Minimum site requirements.

Criteria	Classification	Possible Points	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	5
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	0
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	

### Site Cost Issues - 25 Points Possible

Criteria	Classification	Possible Points	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	0
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	



### Engineering Suitability Issues - 25 Points Possible

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	10
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	2
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	1
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	





# **MIXED-USE CAMPUS PRELIMINARY SITE EVALUATION STUDY**

**Prepared for:**



**Matanuska-Susitna Borough School District  
501 North Gulkana Street  
Palmer, Alaska 99645**

**Prepared by:**



**HDL Engineering Consultants, LLC  
202 West Elmwood Avenue  
Palmer, Alaska 99645**

**March 2018**

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Note: Referenced documents have been provided separately.

## 1.0 Introduction

The Matanuska-Susitna Borough School District (District) has experienced increasing costs associated with the leasing of buildings for school facilities as well as increased student transportation costs directly related to the lack of competing bus maintenance facilities in the District area. In an effort to alleviate costs and meet future District growth, District staff tasked HDL Engineering Consultants, LLC, (HDL) with preparing a Mixed-Use Campus Preliminary Site Evaluation Study (Study) to analyze the suitability of two Matanuska Susitna Borough (Borough)-owned properties as possible sites for Mat-Su Central School, a charter school, and a District-owned bus maintenance facility.

For evaluation of the sites for the schools, the footprint of the existing Valley Pathways High School campus is used per District staff direction. The Valley Pathways High School existing campus provides a comparable template for approximate building size, outdoor space, and parking requirements. A template for a student transportation facility, including bus maintenance and parking, is based on the current, privately-owned student transportation facility located on Palmer-Wasilla Highway. Sizing for a new bus maintenance building is based on the *School Bus Maintenance Facility Planner* (Public Schools of North Carolina, February 2011) and the *Wyoming School Facilities Commission School Bus Maintenance and Parking Facility Design Guidelines* (OZ Architecture, Inc. and Engineering Economics, Inc. updated June 2013).

Both parcels have been evaluated based on existing conditions, utilities, soils, topography, environmental, zoning, setbacks, and surrounding area. Alternatives, including figures showing configurations of possible facilities located on both parcels, are presented at the end of the report.

## 2.0 Sites

### 2.1 PARCEL 'A'

#### 2.1.1 Existing Conditions

Parcel 'A' is owned by the Borough and located at 1959 North Stringfield Road, Palmer, between Stringfield Road to the west and Trunk Road to the east, as shown in Figure 1. The parcel is located between the cities of Palmer and Wasilla making it centrally located for the majority of the District's student population. Palmer-Wasilla Highway, located within approximately one-third mile to the south, and Bogard Road, located approximately one-half mile to the north, are both major east-west travel corridors for the Borough core area. Trunk Road on the east side of the parcel is a north-south arterial.



Figure 1: Parcel 'A' – Existing Conditions

Parcel 'A' consists of 65.59 acres, with Stringfield Road cutting diagonally across both the southwest and northwest corners of the property. Wasilla Creek also crosses the northwest corner of the parcel to the north of Stringfield Road.

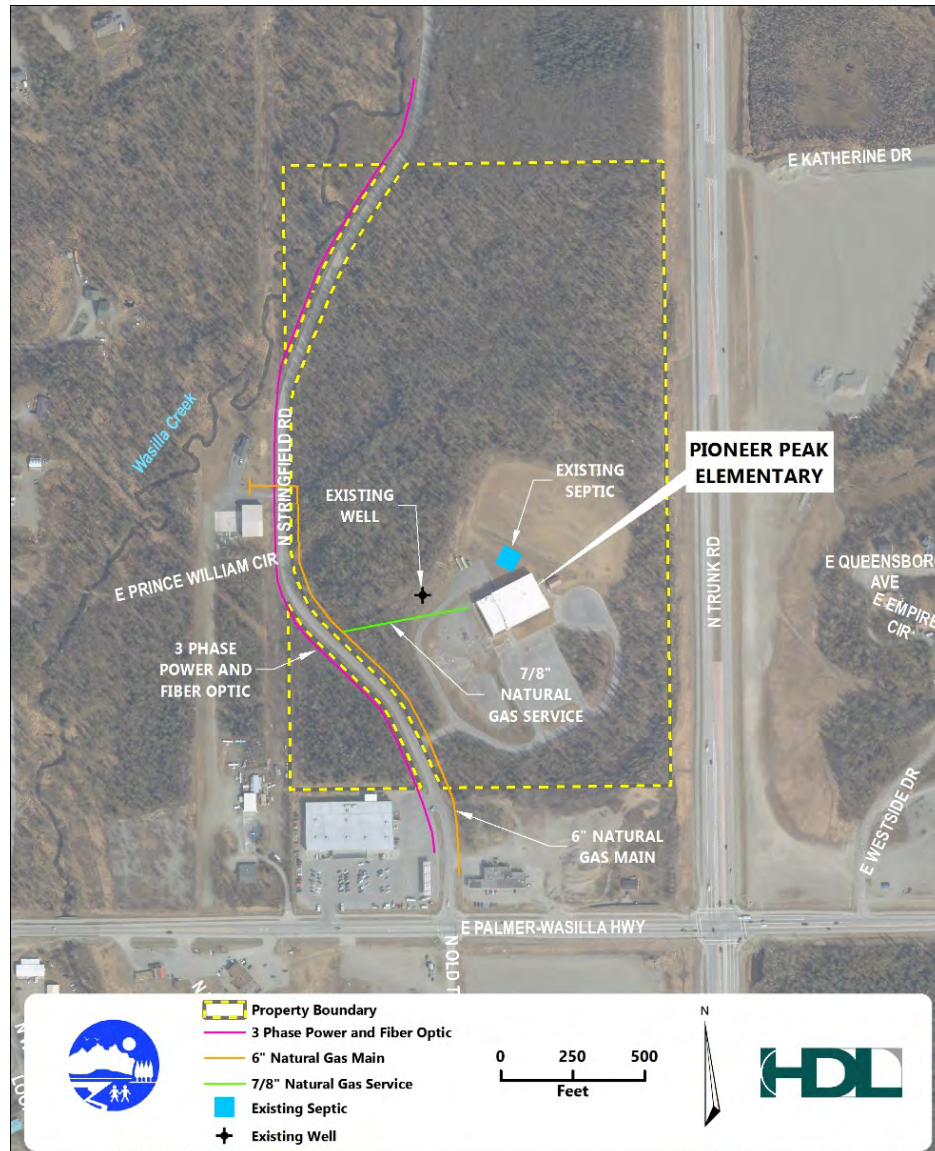
Pioneer Peak Elementary is located on the southern portion of the parcel, leaving approximately 27 acres of land that could be utilized for new facilities on the northern portion. The northern portion is undeveloped and forested with a mix of spruce and birch trees.

Currently the only access to the parcel is the driveway to Pioneer Peak Elementary from Stringfield Road. However, Stringfield Road is in poor condition with minimal shoulders and is already congested before and after school hours. The Borough has plans to develop Katherine Drive (also known as Trunk Road Connector) along the north property line to connect Trunk Road and Stringfield Road, including a signalized intersection at Trunk Road. Once constructed, Katherine Drive would give any new facility on the parcel access to Trunk Road. It is unlikely the Alaska Department of Transportation and Public Facilities (DOT&PF) would allow a driveway from Parcel 'A' connecting directly to Trunk Road. Any new facility on the parcel would require access from Katherine Drive.

### **2.1.2 Utilities**

A summary of utilities has been compiled using as-built information provided by Enstar Natural Gas (Enstar), Matanuska Electric Association (MEA), Matanuska Telephone Association (MTA), District, and the Alaska State Department of Natural Resources (DNR). The existing utility information is described below. Approximate utility locations are shown in Figure 2.





**Figure 2: Parcel 'A' - Utilities**

### ***Water Service***

There is no public water service in the area. Per DNR well records, Pioneer Peak Elementary utilizes a 118-foot-deep well located northwest of the school building. New development on Parcel 'A' would likely require development of a new well at the facility site in accordance with DNR and Borough regulations.

### ***Sanitary Sewer Service***

There is no public sanitary sewer service in the area. Pioneer Peak Elementary utilizes an on-site septic system to serve the school. The existing system is more shallow than a typical septic system, which might indicate shallow groundwater was encountered when the drainfield was constructed. New development on Parcel 'A' would require development of a new septic system

at the site in accordance with Borough and DEC regulations. Ground water levels should be investigated and considered when designing the new system.

### ***Electric***

Three-phase power from MEA is available overhead along the west side of Stringfield Road. Currently there is one service to Parcel 'A' to supply power to Pioneer Peak Elementary.

### ***Telecommunications***

Fiber optic communications from MTA is available overhead along the west side of Stringfield Road. Currently there is one service to Parcel 'A' to supply telecommunication service to Pioneer Peak Elementary.

### ***Natural Gas***

Natural gas is available from Enstar along a portion of the east side of Stringfield Road. The 6-inch main starts at Palmer-Wasilla highway, and follows Stringfield Road to Prince William Circle where it turns west to serve Prince William Circle. Pioneer Peak Elementary is served by a 7/8-inch plastic gas service. New development on the northern portion of Parcel 'A' would require a new service from the natural gas main, and may require extending the existing 6-inch main north along Stringfield Road.

### ***Drainage and Storm Water Run-off***

There is no public storm water catchment system in the area. Currently storm water runoff infiltrates on site or flows generally to the west towards Wasilla Creek. Any development would have to consider run off direction and volume as well as best management practices for transport of sediments and contaminants in storm water.

## **2.1.3 Soils**

According to the United States Geological Survey (USGS) Geology Map of Alaska, dated 2015, Parcel 'A' is located in an area of poorly consolidated Quaternary, Pleistocene, and uppermost Tertiary surficial deposits. These surficial deposits generally consist of alluvial and glacial deposits with intermittent lacustrine and eolian deposits. In general, surface organics overlie a mixture of fine and coarse-grained soils ranging from silt to gravel.

Nearby soil borings suggest that undisturbed portions of the parcel are likely to encounter an organic surface layer underlain by sand with silt and gravel. Nearby surface water, topography, and soil borings indicate the site will have areas with shallow groundwater.

A shallow, spread footing foundation system is typical for buildings in the area. To support the shallow foundation system, the organic surface soils are typically removed and replaced with an engineered fill. Geotextile separation fabric is sometimes used to separate the engineered fill from the underlying silty soils. If development takes place in higher elevation areas, groundwater is not expected to be encountered during excavations. If development takes place in low elevation areas, shallow groundwater should be anticipated and dewatering of excavation may be required.



A subsurface evaluation is recommended to evaluate the subsurface conditions prior to design of any development. A typical subsurface evaluation would include geotechnical borings or test pits, along with temporary standpipe piezometers to determine groundwater elevations.

### 2.1.4 Topography

The most current Borough LiDAR topography for Parcel 'A' is shown in Figure 3. A topographic survey was not performed as a part of this report.



Figure 3: Parcel 'A' – Topography

Parcel 'A' has varying topographic relief across the property. There is rolling terrain northwest of the Pioneer Peak campus; however, the northern third of the parcel is relatively flat. Depending on the characteristics of the existing soil, the area directly northwest of Pioneer Peak could possibly be excavated, providing an onsite source of gravel for development, thereby reducing construction costs.

Access from either Stringfield Road or the future Katherine Drive to the north could be accomplished without major grade changes.

### **2.1.5 Environmental**

HDL conducted preliminary research using the most current available data from Borough, state, and federal agencies to identify environmental resources that may be affected by the proposed development. The purpose of the research was to identify permitting and regulatory requirements, and to ensure environmental considerations are adequately addressed during planning and design phases. The following resource categories have been identified within Parcel 'A'. Other environmental resources not described here may become present or applicable at a later time depending on changes to site conditions or changes to local, state, or federal regulations during the course of development of the parcel.

#### ***Anadromous/Resident Fish Habitat***

According to the Alaska Department of Fish and Game's Anadromous Waters Catalog and Fish Resource Mapper, Wasilla Creek is known to support anadromous and resident fish. Wasilla Creek flows through the northwest corner of the parcel, but is separated from the developable portion of the property by Stringfield Road.

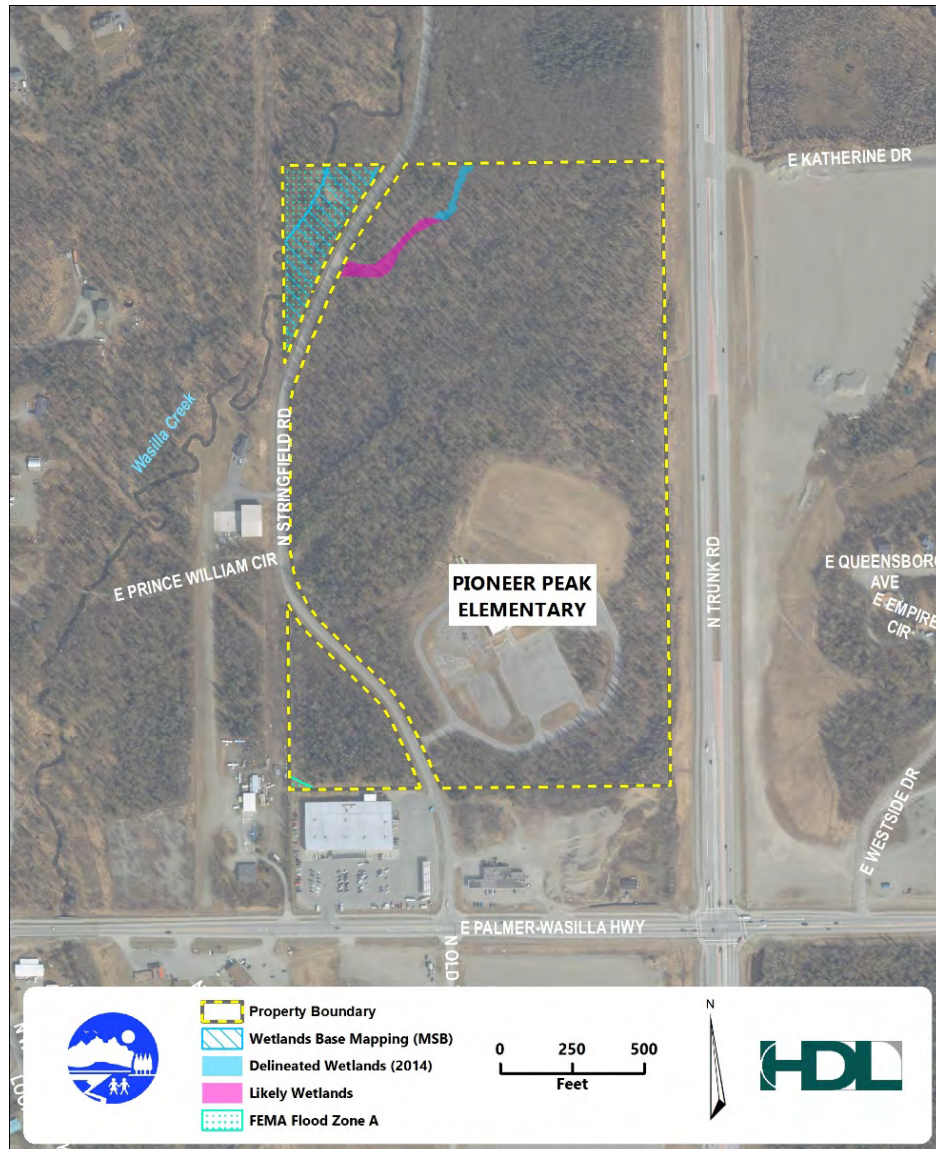
#### ***Floodplains***

According to Federal Emergency Management Agency Flood Insurance Rate Map number 02170C8130E, Zone A flood zones overlap the southeast and northwest corner of Parcel 'A' as shown in Figure 4. The overlapping flood zone is not within the area considered for development.

#### ***Wetlands***

A review of publicly available base wetlands mapping provided by the Borough and the US Fish and Wildlife Service National Wetlands Inventory indicates wetlands are present within Parcel 'A', as shown in Figure 4. Wetlands are located in the northwest corner of the property. A wetlands delineation completed by HDL in 2014 for the Borough's Trunk Road Connector Project mapped additional wetland areas in the northern portion of the property. In addition, a review of recent aerial imagery and elevation data provided by the Borough indicates the 2014 delineated wetlands are likely to extend southwest toward Stringfield Road.

Development in wetlands is regulated under Section 404 of the Clean Water Act (CWA), which requires a permit from the US Army Corps of Engineers (USACE) to discharge fill or dredged material within the boundaries of wetland areas deemed to be subject to Section 404 jurisdiction. To determine extent of wetland areas and whether the wetlands are subject to USACE's jurisdiction, it is recommended that a field-based wetlands delineation and preliminary jurisdictional determination report be completed prior to applying for a Section 404 permit from USACE for future development that may involve wetlands.



**Figure 4: Parcel 'A' – Floodplains & Wetlands**

### **2.1.6 Title Report**

According to the Owner's Consultation Report MS204808 (or Title Report, Mat-Su Title, February 2018), Parcel 'A' is currently owned by the Borough. Easements and encumbrances exist on the property and are listed within the Report, which has been provided to District staff separately.

Parcel 'A' has a number of setbacks and easements specific to the property; however, there are no easements that affect the developable land area on the northern portion of the parcel.

### **2.1.7 Zoning**

The Borough currently does not have zoning regulations in place that would affect development on Parcel 'A'. However, any new development would need to go through an approval process with the Alaska State Fire Marshal's Office.



### **2.1.8 Setbacks**

*Matanuska-Susitna Borough Code, Chapter 17.55, Setbacks and Easements*, provides general requirements for site development. Per Section 17.55.010, Setbacks, no structure or building may be placed within 25 feet from the right-of-way line of a public right-of-way, no furthestmost protruding portion of the structure or building may be located nearer than 10 feet from any side or rear lot line, and eaves may project a maximum of 3 feet into required setback areas. Chapter 17.55.020, Setbacks for Shorelands, states that no structure or footing may be located closer than 75 feet from the ordinary high water mark of a body of water and eaves may project a maximum of 3 feet into the required setback area. Setbacks do not severely limit the buildable area of Parcel 'A'.

### **2.1.9 Surrounding Area**

Parcel 'A' is surrounded by an airstrip to the west, an undeveloped large parcel to the north, Trunk Road to the east, additional undeveloped large parcels further east, and commercial developments and one residential development to the south. Additional commercial development in the area is likely, as the Palmer-Wasilla Highway corridor continues to grow. Both the Palmer-Wasilla Highway and Trunk Road will experience significantly increased amounts of traffic. Impacts from surrounding development and increasing traffic, such as loss of access, reduced green space buffers, and increased noise, should be considered for any facility placed on the site.

## **2.2 PARCEL 'B'**

### **2.2.1 Existing Conditions**

Parcel 'B' is a 156.41-acre site owned by the Borough and is located at 3262 North Church Road, Wasilla, at the northwest corner of the intersection of North Church Road and West Seldon Road as shown in Figure 5. The property lies northwest of the City of Wasilla. Church Road along the east side of the parcel connects directly to the Parks Highway to the south. Seldon Road, along the south side of the property, is a minor east-west arterial roadway.

Parcel 'B' consists of flat to rolling terrain forested with a mix of birch and spruce trees. While there are no permanent structures on the parcel, four cleared areas have been constructed. Three driveways provide access to the parcel; two gravel drives from Church Road and one very steep dirt drive from Seldon Road. Driveways are gated at this time. The cleared areas have been used to store log decks and are slightly overgrown with low brush. There is also an established four-wheel-drive trail diagonally crossing the northeast corner of the parcel.



**Figure 5: Parcel 'B' – Existing Conditions**

### **2.2.2 Utilities**

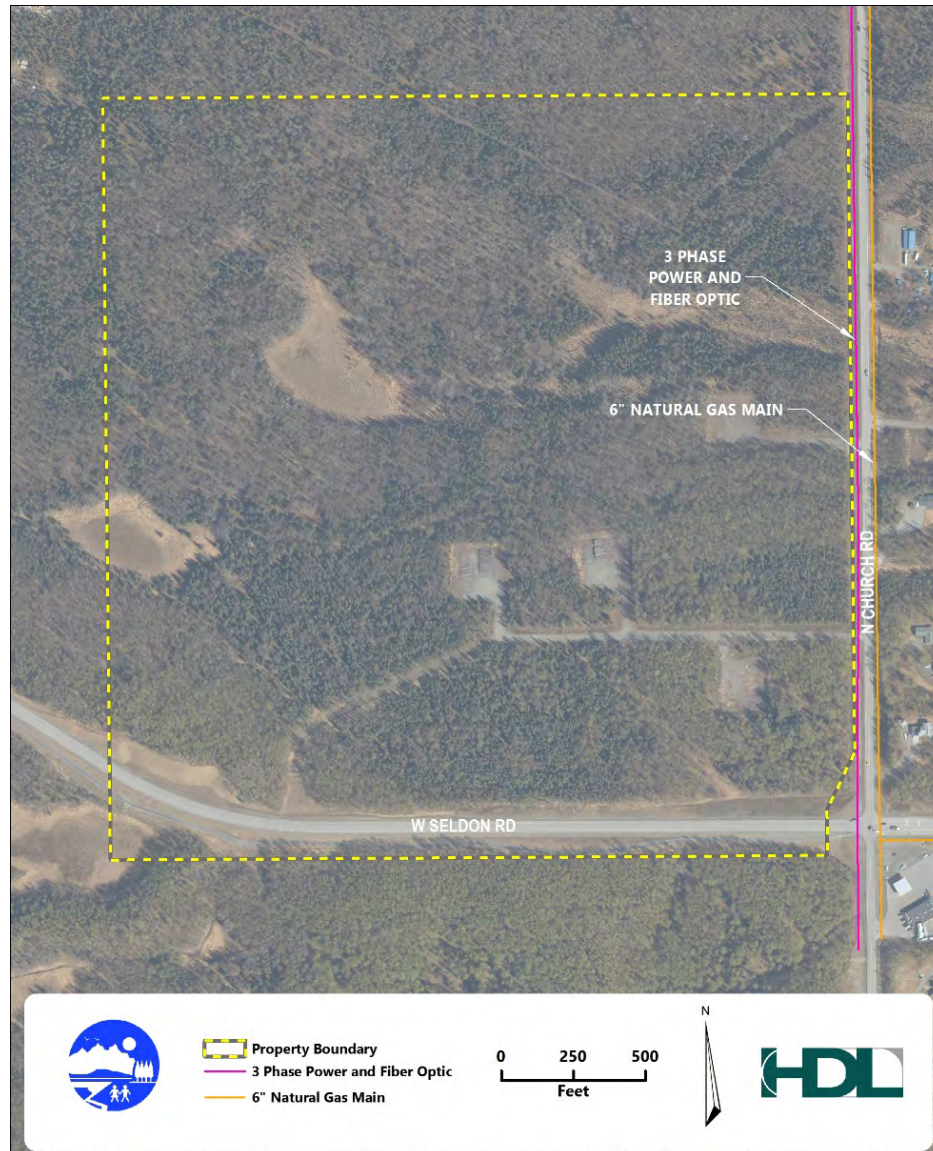
A summary of utilities has been compiled using as-built information provided by Enstar, MEA, MTA, and DNR. Approximate utility locations are shown in Figure 6.

#### ***Water Service***

There is no public water service in the area and, per DNR, there is no record of a well on the property. New development on Parcel 'B' would require development of a new well at the facility site in accordance with Borough and DNR regulations.

#### ***Electric***

Three-phase power from MEA is available overhead along the west side of Church Road.



**Figure 6: Parcel 'B' - Utilities**

### ***Telecommunications***

Fiber optic communications from MTA is available overhead along the west side of Church Road.

### ***Natural Gas***

Natural gas is available from Enstar along the east side of Church Road. The 6-inch main runs along the entire east side of the property. New development on the parcel would require a new service from the natural gas main.

### ***Drainage and Storm Water Run-off***

There is no public storm water catchment system in the area. Currently storm water runoff infiltrates on site and flows generally to the northwest. Any development would have to consider



run off direction and volume as well as best management practices for transport of sediments and contaminants in storm water.

### **2.2.3 Soils**

According to the USGS Geology Map of Alaska, dated 2015, Parcel 'B' is located in an area of poorly consolidated Quaternary, Pleistocene, and uppermost Tertiary surficial deposits. These surficial deposits generally consist of alluvial and glacial deposits with intermittent lacustrine and eolian deposits. In general, surface organics overlie a mixture of fine and coarse-grained soils ranging from silt to gravel.

Nearby soil borings suggest that undisturbed portions of Parcel 'B' are generally underlain by sand and gravel with varying amounts of silt. The topography and vegetation in the area suggest that low-lying areas in the northern and eastern portions will generally encounter a layer of surface organics underlain by fine-grained soils. Groundwater is expected to be shallow across the parcel but will tend to be closer to the surface in the northern portion of the parcel.

A shallow, spread-footing foundation system for buildings is typical in the area. To support the shallow foundation system, the organic surface soils are typically removed and replaced with an engineered fill. Geotextile separation fabric is sometimes used to separate the engineered fill from the underlying silty soils. If development takes place in higher elevation areas, groundwater is not expected to be encountered during excavations. If development takes place in low elevation areas, shallow groundwater should be anticipated and dewatering of excavations may be required.

A subsurface evaluation is recommended to evaluate the subsurface conditions prior to design of any development. A typical subsurface evaluation would include geotechnical borings or test pits, along with temporary standpipe piezometers to determine groundwater elevations.

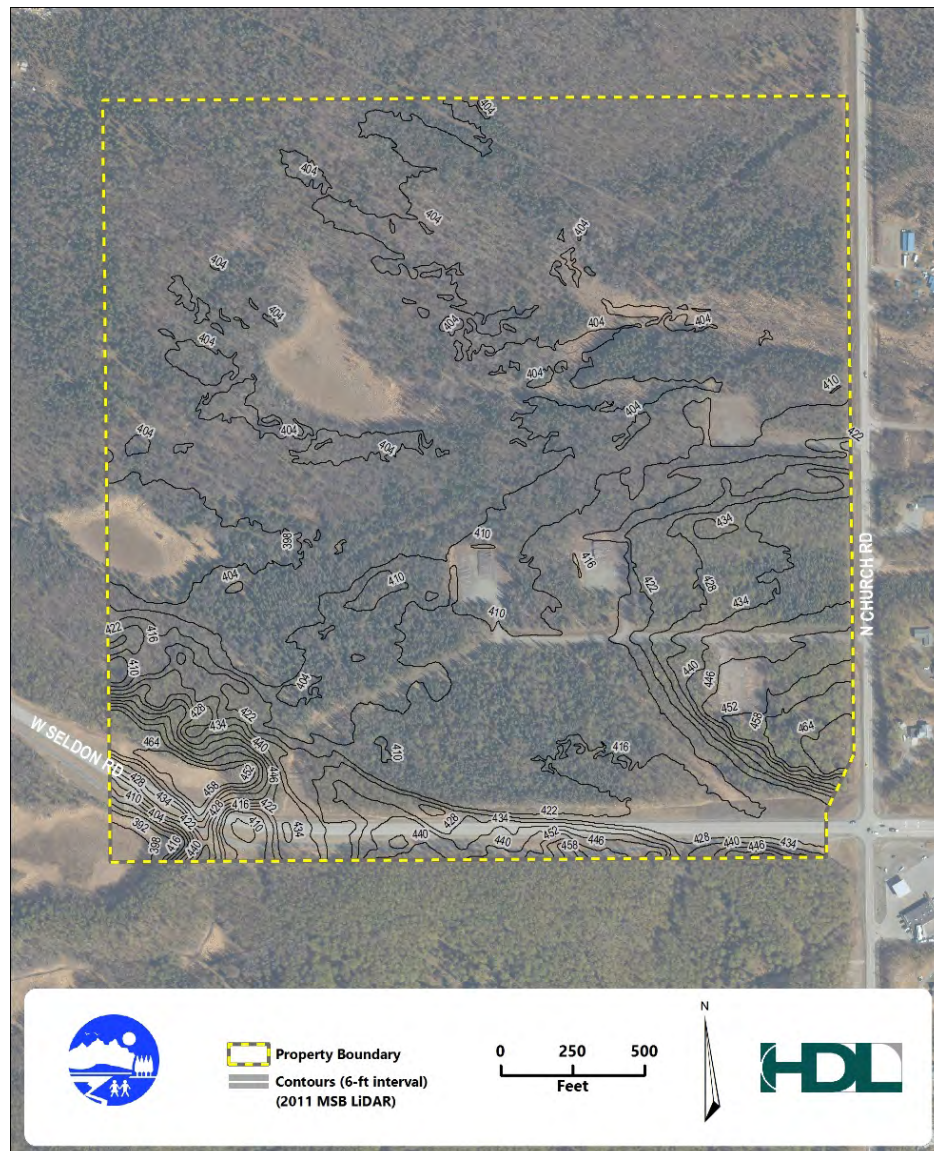
### **2.2.4 Topography**

The most current Borough LiDAR topography for Parcel 'B' is shown in Figure 7. A topographic survey was not performed as a part of this report.

Parcel 'B' has varying topographic relief across the property. There is rolling terrain across the southern third of the property; however, the northern portion of the parcel is relatively flat. There is significant elevation change from Seldon Road to the parcel making access from Seldon Road challenging. The parcel currently has two existing driveways accessing Church Road, both without significant grade change.

Given the large size of the parcel and depending the characteristics of the existing soil, an onsite source of gravel could possibly be developed, thereby reducing construction costs.





**Figure 7: Parcel 'B' – Topography Study**

### **2.2.5 Environmental**

HDL conducted preliminary research using the most current available data from the Borough, state, and federal agencies to identify environmental resources that may be affected by the proposed development. The purpose of the research was to identify permitting and regulatory requirements, and to ensure environmental considerations are adequately addressed during the planning and design phases. The following resource categories have been identified within Parcel 'B'. Other environmental resources not described here may become present or applicable at a later time depending on changes to site conditions or changes to local, state, or federal regulations during the course of development of the project.

### ***Anadromous/Resident Fish Habitat***

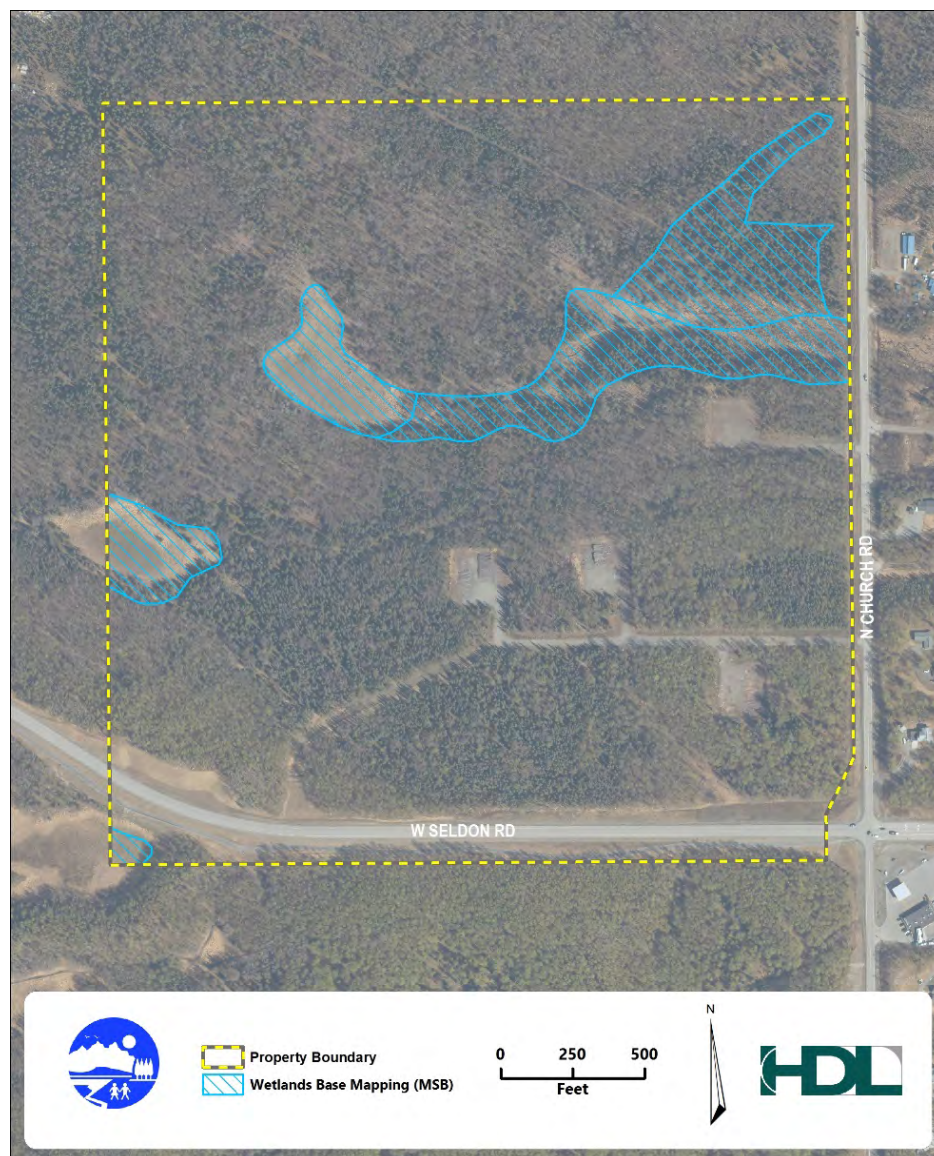
There is no fish habitat present on Parcel 'B'

### ***Floodplains***

According to Federal Emergency Management Agency Flood Insurance Rate Map number 02170C8060E, no flood zones have been identified within the parcel.

### ***Wetlands***

A review of publicly available base wetlands mapping provided by the Borough and the US Fish and Wildlife Service National Wetlands Inventory indicates wetlands are present in Parcel 'B'. Within the parcel, Borough-mapped wetlands are present in the central, west, and northeast portions of the property, as shown in Figure 8.



**Figure 8: Parcel 'B' - Wetlands**



Development in wetlands is regulated under Section 404 of the Clean Water Act (CWA), which requires a permit from the US Army Corps of Engineers (USACE) to discharge fill or dredged material within the boundaries of wetland areas deemed to be subject to Section 404 jurisdiction. To determine extent of wetland areas on the parcel and whether the wetlands are subject to USACE's jurisdiction, it is recommended that a field-based wetlands delineation and preliminary jurisdictional determination report be completed prior to applying for a Section 404 permit from USACE for future development that may involve wetlands.

### **2.2.6 Title Report**

According to the Owner's Consultation Report MS204807 (or Title Report, Mat-Su Title, February 2018), Parcel 'B' is currently owned by the Borough. Easements and encumbrances exist on the property and are listed within the Report, which has been provided to District staff separately.

Parcel 'B' has setbacks and easements specific to the property. Easements that affect developable land area are shown in Figure 5.

### **2.2.7 Zoning**

The Borough currently does not have zoning regulations in place that would affect development on Parcel 'B'. However, any new development would need to go through an approval process with the Alaska State Fire Marshal's Office.

### **2.2.8 Setbacks**

*Matanuska-Susitna Borough Code, Chapter 17.55, Setbacks and Easements*, provides general requirements for site development. Per Section 17.55.010, Setbacks, no structure or building may be placed within 25 feet from the right-of-way line of way public right-of-way, no furthestmost protruding portion of the structure or building may be located nearer than 10 feet from any side or rear lot line, and eaves may project a maximum of 3 feet into required setback areas. Setbacks do not severely limit the buildable area of Parcel 'B'.

### **2.2.9 Surrounding Area**

Parcel 'B' is more rurally located than Parcel 'A'. Surrounding parcels are generally large though residential subdivisions are located to the east and northwest of the parcel and there is a small commercial development to the southeast. Because the parcel is large, development can be sited such that impacts from onsite facilities upon the surrounding area can be reduced and factors such as noise and dust from the surrounding area can be minimized.

## **3.0 Proposed Facilities**

### **3.1 MAT-SU CENTRAL SCHOOL**

Mat-Su Central School is a K-12 alternative education school that supports home schooling and distance delivery education, and provides in-classroom teaching for its students. Mat-Su Central has been providing flexible programs for 40 years.

The main campus is located within the City of Wasilla, with a small, secondary campus in the City of Palmer. The school services students from across the Borough. There are 1,700 students currently enrolled, however, typically there are only about 240 students on campus at one time. Parents provide transportation when students need to visit campus for classes or appointments. Unlike traditional school, students do not tend to visit campus daily.

The Wasilla Mat-Su Central campus is leased from a private owner. The District leases 18,000 square feet in a larger, office-type building. There is no outdoor space for students, no gym, and no auditorium. Students can participate in sports through traditional schools. Therefore, while a gym or auditorium would be utilized in a new campus, outdoor sports fields would not be needed at a new location.

### **3.2 CHARTER SCHOOL**

Some charter schools in the District lease their current facilities from private owners. Each one is unique in size and needs. Using the Valley Pathways High School facility as a template allows for evaluation of the space needs for relocation of an existing charter school or the addition of a future school.

### **3.3 STUDENT TRANSPORTATION**

The Borough's population in 2016 was over 101,000, with an average population growth of 3.4% per year over the last 25 years. The District encompasses the entire Borough and serves children over a 25,000 square mile area. Roughly 17,000 students are currently eligible for student transportation, and the District provides transportation for approximately 12,850 students daily with a yearly ridership of 1,971,873, including special education buses, as of the 2016-2017 school year. At this time, the District has contracted services for a fleet of 200 buses with 170 active buses and 30 buses in reserve. That number will likely continue to increase as the Borough population grows.

The current, privately-owned, student transportation facility is located on the Palmer-Wasilla Highway between the cities of Palmer and Wasilla. This facility includes the only school bus maintenance building in the Borough core area. The facility is comprised of three parcels totaling 9.58 acres. There is one main building, consisting of seven maintenance bays and office space. A fueling facility is not located on site.

Determining the appropriate size of a future student transportation facility is beyond the scope of this study; however, for the purposes of evaluation, assumptions have been made to estimate the required overall size of a maintenance building. The *School Bus Maintenance Facility Planner* (Public Schools of North Carolina, February 2011) and the *Wyoming School Facilities*

*Commission School Bus Maintenance and Parking Facility Design Guidelines* (OZ Architecture, Inc. and Engineering Economics, Inc. updated June 2013) have rules of thumb for sizing bus maintenance buildings. The number of bays needed is determined by the number of mechanics, not including support staff, and how many buses they can maintain. Typically, one mechanic can maintain 20-30 buses, depending on bus age, level of maintenance, mileage per year, and other factors. Using the more conservative value of 20 buses per mechanic, to allow for future bus fleet growth, and using the current fleet size of 200 buses, a staff of ten mechanics is needed. Based on an industry standard 1.5 bays per mechanic for larger fleets, 15 maintenance bays are needed. A wash bay would add an additional bay to that total.

Maintenance bay size averages 22.5-feet by 55-feet per bay, or 1,237 square feet. Bay support space (tire maintenance, tire, parts, tool, and fluid storage, work/welding area, wash bay) are estimated at 50 percent of the bay size, or an additional 620 square feet per bay. Office area, including lockers, dispatch, offices, and restrooms, is also estimated at 50 percent of the bay size, or an additional 620 square feet per bay. Using these figures, a new building would have an approximate 38,000 square foot area.

Required bus parking/storage area would vary depending on configuration of the site and layout. A standard parking stall is 13-feet wide by up to 50-feet long depending on bus length, or 650 square feet and should preferably be drive-through stalls. Aisles should be a minimum of 130 feet wide for 90 degree parking. Area around the maintenance building, fueling facilities, turn areas, employee parking, and snow storage area would add to the required parking area size. The existing student transportation facility, at 9.58 acres, provides adequate parking area for the current fleet size; however, it does not allow for future expansion of the fleet, nor does it allow for a fuel facility or building expansion. It also requires “nose to tail” parking, requiring buses to back out of parking spaces, increasing the likelihood of accidents.

A new student transportation facility does not necessarily need to have onsite parking for all of the core area bus fleet. The District could develop, or require a contractor to develop, secure bus parking areas throughout the District for daily use, bringing buses to a main maintenance facility as needed. This would potentially decrease fuel usage, area road traffic, and daily mileage on buses. It would also potentially decrease the amount of noise, odor, and environmental impact a single, large facility would have on the surrounding area. Existing school parking lots might be utilized or expanded.



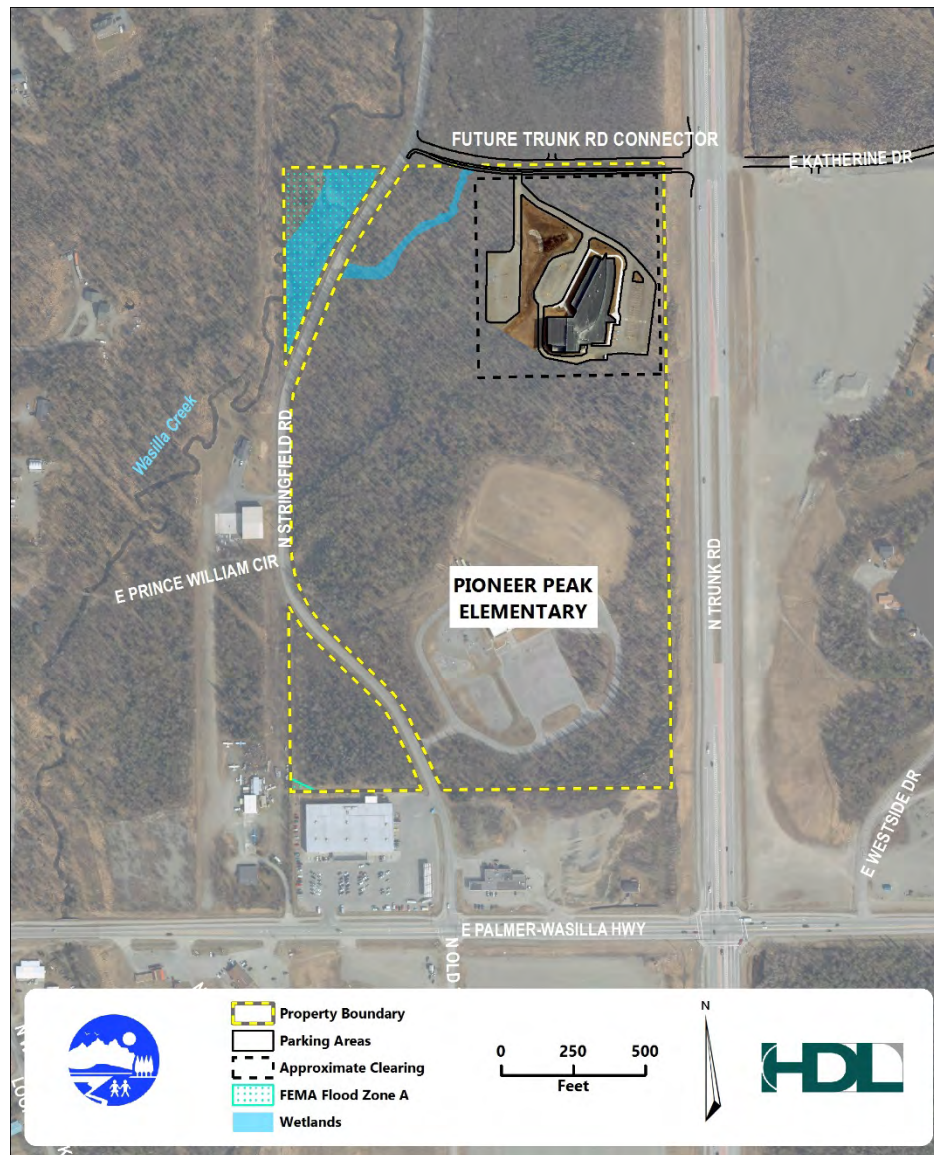
## 4.0 Alternatives

The following alternatives provide several conceptual layouts for developing the three proposed facilities on the two sites and can be combined in any order. For the schools, Valley Pathways High School, at approximately 46,000 square feet of building, is used as a comparable template for future school development and includes a gym within the school building area. This template includes parking but does not include outdoor sports fields. The school template covers approximately 9.5 acres.

The current, 9.48-acre privately-owned student transportation facility on Palmer-Wasilla Highway is used as basic template, although the student transportation facility area as shown covers approximately 11 acres. As discussed in the previous section, neither the maintenance building nor the parking area is optimal and may not meet current needs. The building used in the student transportation facility template is sized at 38,000 square feet in a single floor to show the scale of a building meeting current needs as estimated by industry standards. As the District grows, the number of buses in use will increase and larger parking and maintenance facilities will be required.

Both templates are used as reference only and to convey the possible scale and scope of future development on the parcels. The sizes are likely to change as further studies and planning processes are completed. Both types of facilities would need to be designed and constructed to meet the specific needs of the District and to fit each site. The final site development will not match the templates used in the Alternative figures.

## 4.1 ALTERNATIVE 1



**Alternative 1: Parcel 'A'**

Alternative 1 locates one school facility on Parcel 'A'.

- Approximately 27 acres allows room for expansion or future development of sports fields.
- Excellent access to arterial roadways. Requires construction of Katherine Drive for access to Trunk Road.
- Utilities are in-place and available.
- Wetlands areas exist but can be avoided.

## 4.2 ALTERNATIVE 2



**Alternative 2: Parcel 'A'**

Alternative 2 locates one school facility and a student transportation facility on Parcel 'A'.

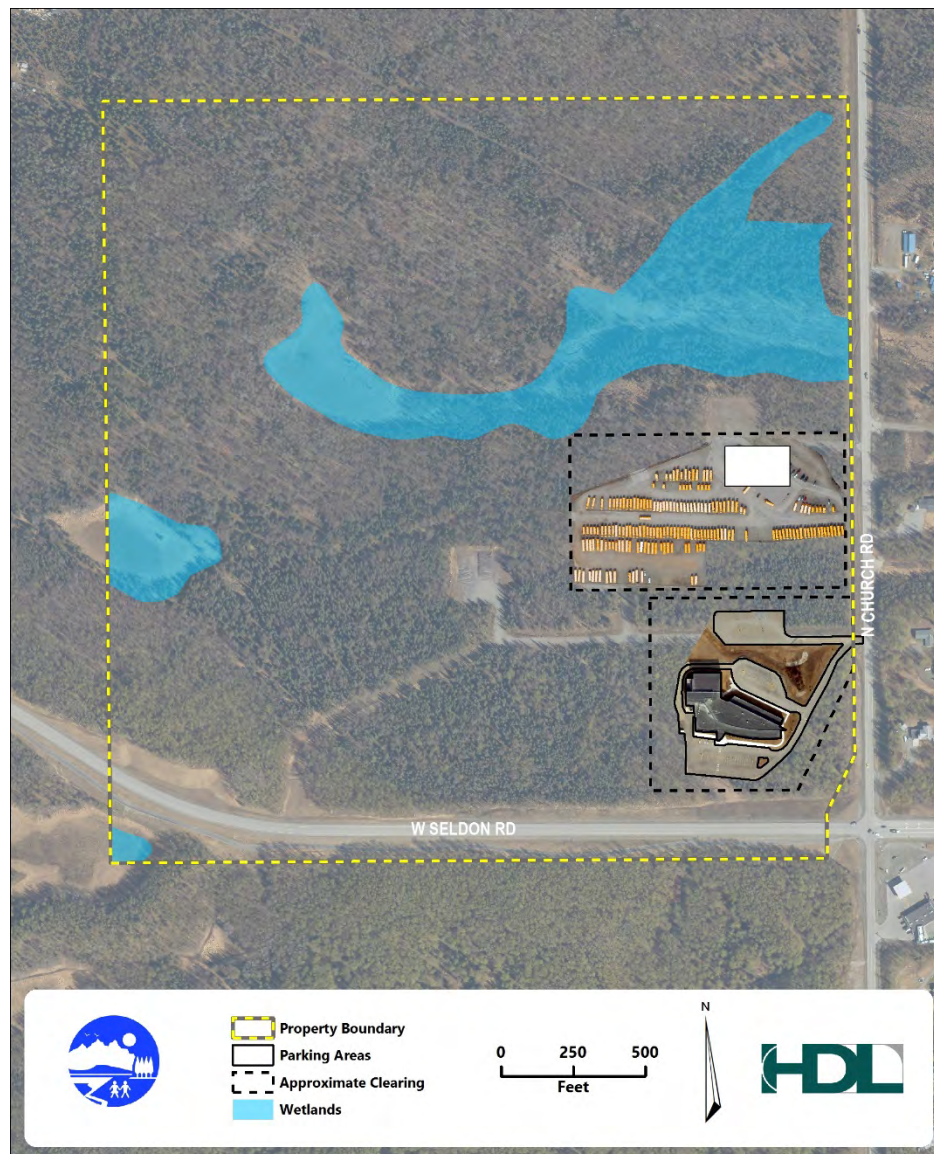
- Approximately 27 acres likely allows room for both a school and student transportation facility but leaves little room for future expansion or sports fields.
- Excellent access to arterial roadways. Requires construction of Katherine Drive for access to Trunk Road.
- Utilities are in-place and available.
- Access driveway and utilities could be shared between facilities, reducing costs.
- Increased developed area may require wetlands mitigation.

As an option to this alternative, a bus maintenance building could be developed at an alternative location, with a parking/bus storage area on Parcel 'A'. This would slightly reduce the needed onsite area for a student transportation facility, only removing building area. Conversely, only the



bus maintenance building and a small parking area could be developed on Parcel 'A', with a bus parking facility at a different location, thereby significantly reducing the needed area on this site, and leaving room for development of sports fields.

### 4.3 ALTERNATIVE 3

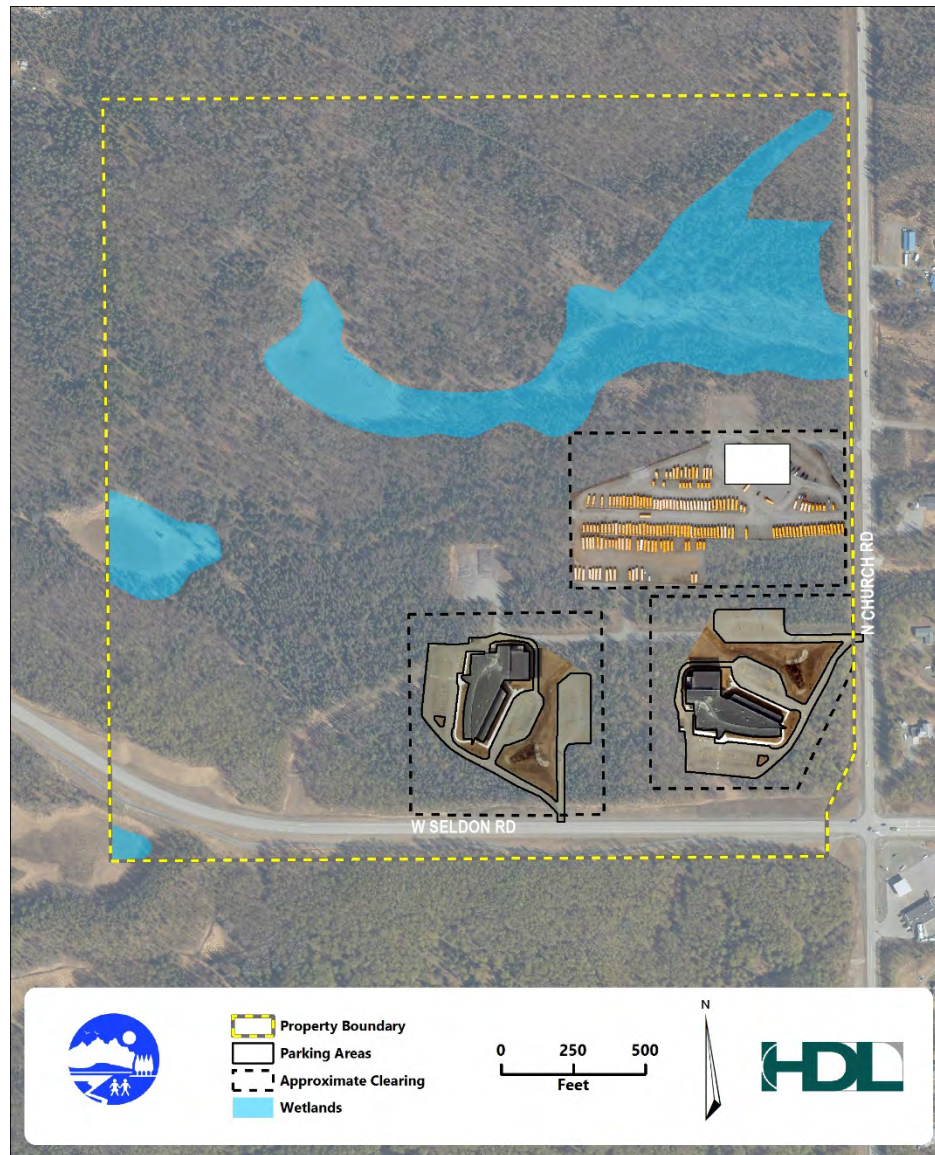


**Alternative 3: Parcel 'B'**

Alternative 3 locates one school and a student transportation facility on Parcel 'B'.

- Approximately 156 acres allows room for expansion or future development of sports fields and expansion of the student transportation facility.
- Direct access to a minor arterial roadway.
- Utilities are in-place and available.
- Wetlands areas could be avoided.
- Access driveway and utilities could be shared between facilities, reducing costs.

#### 4.4 ALTERNATIVE 4



**Alternative 4: Parcel 'B'**

Alternative 4 locates two schools and a student transportation facility on Parcel 'B'.

- Approximately 156 acres allows room for expansion or future development of sports fields for schools and expansion of the student transportation facility.
- Direct access to a minor arterial roadway.
- Utilities are in-place and available.
- Wetlands area can be avoided.
- Access driveway and utilities could be shared between facilities, reducing costs.

## 5.0 Conclusion

While Parcel 'A' is positioned in a centralized location between Palmer and Wasilla, its usable area is limited and District needs for future expansion of facilities must be taken into account for planning any facility constructed on the parcel. Parcel 'A' is also located in a rapidly developing area of the Borough. Commercial and residential development will only continue to grow and densify around Parcel 'A' as the Borough's population increases and may impact whatever facility is chosen for the site. This parcel's proximity to arterial roadways provides the District an opportunity to locate facilities on a site with ease of access to major roadways.

Parcel 'B' allows ample room for developing multiple facilities on site and provides a more rural environment, which could be desirable for some facilities. The parcel's size also allows room for future expansion of facilities located onsite as the District's student population grows. Seldon Road, while identified as a minor arterial at present, will continue to be developed to become a major east-west arterial, providing improved ease of access from the area to the site in the future.

Both Parcel 'A' and Parcel 'B' are viable options for development. Both have readily available utilities, access to arterial roadways, and developable land area. Terrain on both parcels is comparable; both include relatively flat to rolling terrain and both may allow onsite soil to be utilized in development, depending on results of future soils and groundwater investigations. While both sites include wetlands, those areas could be avoided or mitigated.



## References

OZ Architecture, Inc. and Engineering Economics, Inc. 2013 *Wyoming School Facilities Commission School Bus Maintenance and Parking Facility Design Guidelines*.  
<https://docs.google.com/file/d/0ByAJz33FLoSMLXFBSDD6TnBxTWM/edit>.

Public Schools of North Carolina. 2011 *School Bus Maintenance Facility Planner*.  
[www.schoolclearinghouse.org/pubs/BUS GARAGEXPNew2011.pdf](http://www.schoolclearinghouse.org/pubs/BUS%20GARAGE%20New2011.pdf)

Mat-Su Title Agency, LLC. *Owner's Consultation Report MS204807 dated February 8, 2018*, as ordered by HDL Engineering Consultants, LLC.

Mat-Su Title Agency, LLC. *Owner's Consultation Report MS204808 dated February 8, 2018*, as ordered by HDL Engineering Consultants, LLC.



**MATANUSKA-SUSITNA BOROUGH  
AREA SCHOOLS SITE SELECTION COMMITTEE  
RESOLUTION SERIAL NO. 21-01**

A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH AREA SCHOOL SITE  
SELECTION COMMITTEE RECOMMENDING A SITE FOR MAT-SU CENTRAL SCHOOL.

WHEREAS, the Matanuska-Susitna Borough School District is seeking to identify a site for the permanent location of Mat-Su Central School; and

WHEREAS, the current lease agreement for Mat-Su Central School is set to expire on June 30, 2024 with the option for an additional extension; and

WHEREAS, the Mat-Su Borough Area Schools Site Selection Committee (the Committee) received a request from the Matanuska-Susitna School District to identify a suitable location for this school; and

WHEREAS, Matanuska-Susitna Borough 19.08.020 provides that the Committee make recommendations to the Assembly on requested school sites; and

WHEREAS, there is currently no funding allocated to school site procurement, thus, only Matanuska-Susitna Borough owned property was considered for selection; and

WHEREAS, Matanuska-Susitna Borough owned property within the area of Mat-Su Central's families was reviewed for school site



suitability, using criteria outlined in Matanuska-Susitna Borough code and represented through a site suitability criteria scoring matrix; and

WHEREAS, the review of Matanuska-Susitna Borough property, returned "Stringfield Subdivision" as a potential preferred location; and

WHEREAS, the preferred location is legally described as Lot 1, Stringfield Subdivision, Plat No. 2020-96, located in Section 34, Township 18 North, Range 1 East, S.M., AK., Palmer Recording District, Third Judicial District, State of Alaska; and

WHEREAS, a professional engineering firm performed a geotechnical analysis to verify useable areas and identify soils useful for development, with acceptable findings.

NOW THEREFORE BE IT RESOLVED that the Matanuska-Susitna Borough Area Schools Site Selection Committee does hereby recommend to the Matanuska-Susitna Borough School Board, Planning Commission, and Assembly that Lot 1, Stringfield Subdivision be identified as a preferred location of a permanent facility for Mat-Su Central School.

ADOPTED by the Matanuska-Susitna Borough Area Schools Site  
Selection Committee this 14th day of April, 2021.

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Thomas Bergey, Chairperson

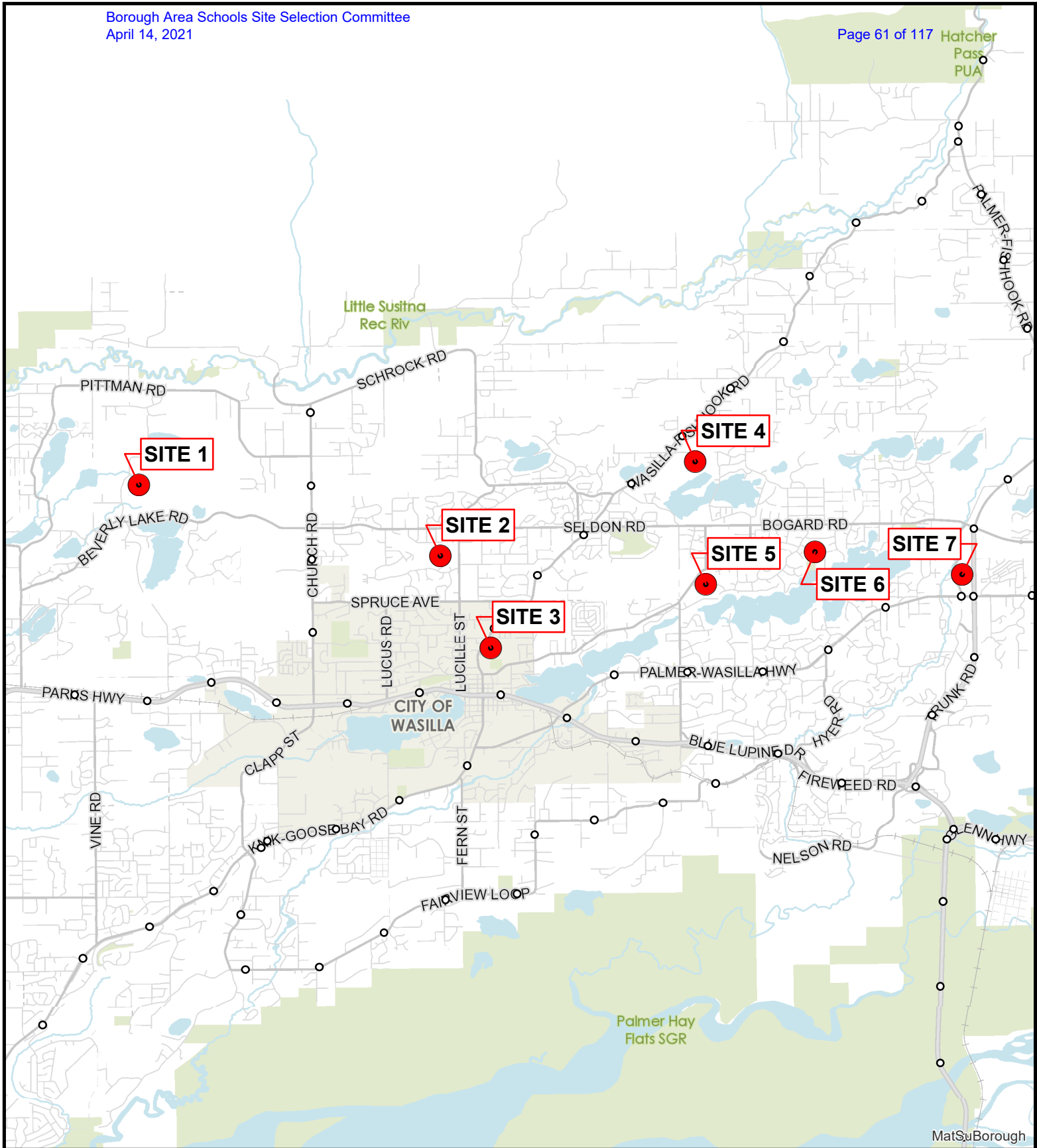
Attest:

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Adam Bradway, Planner II



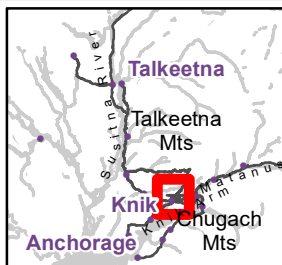




Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land

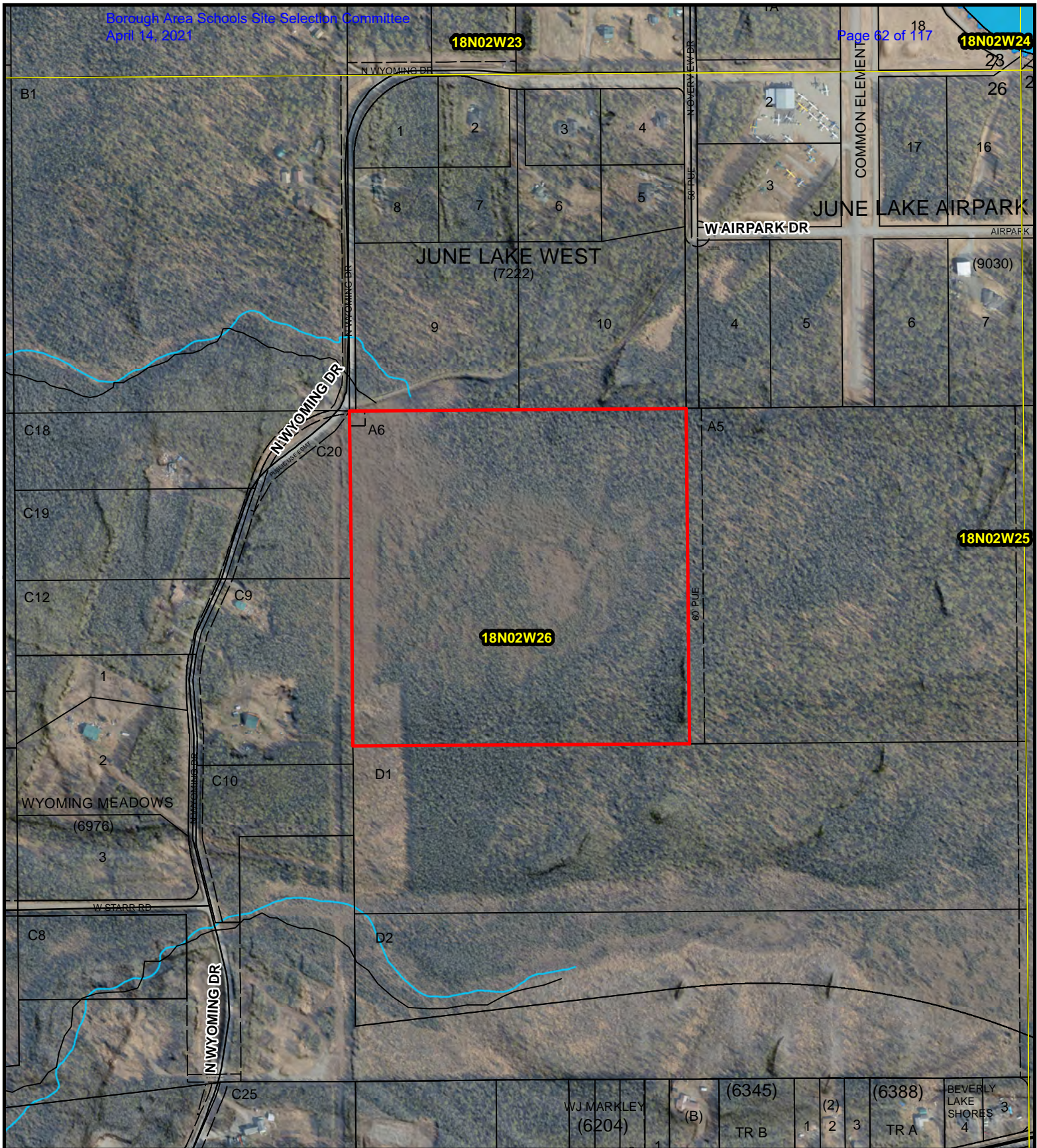


● SELECTED PARCELS



Date: July 2019  
Sources: MSB GIS, MSB LRMD, AK DOT  
Projection: NAD 83 AK ST PLN Z4  
Location: MSB  
Author: MSB LRMD





Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land



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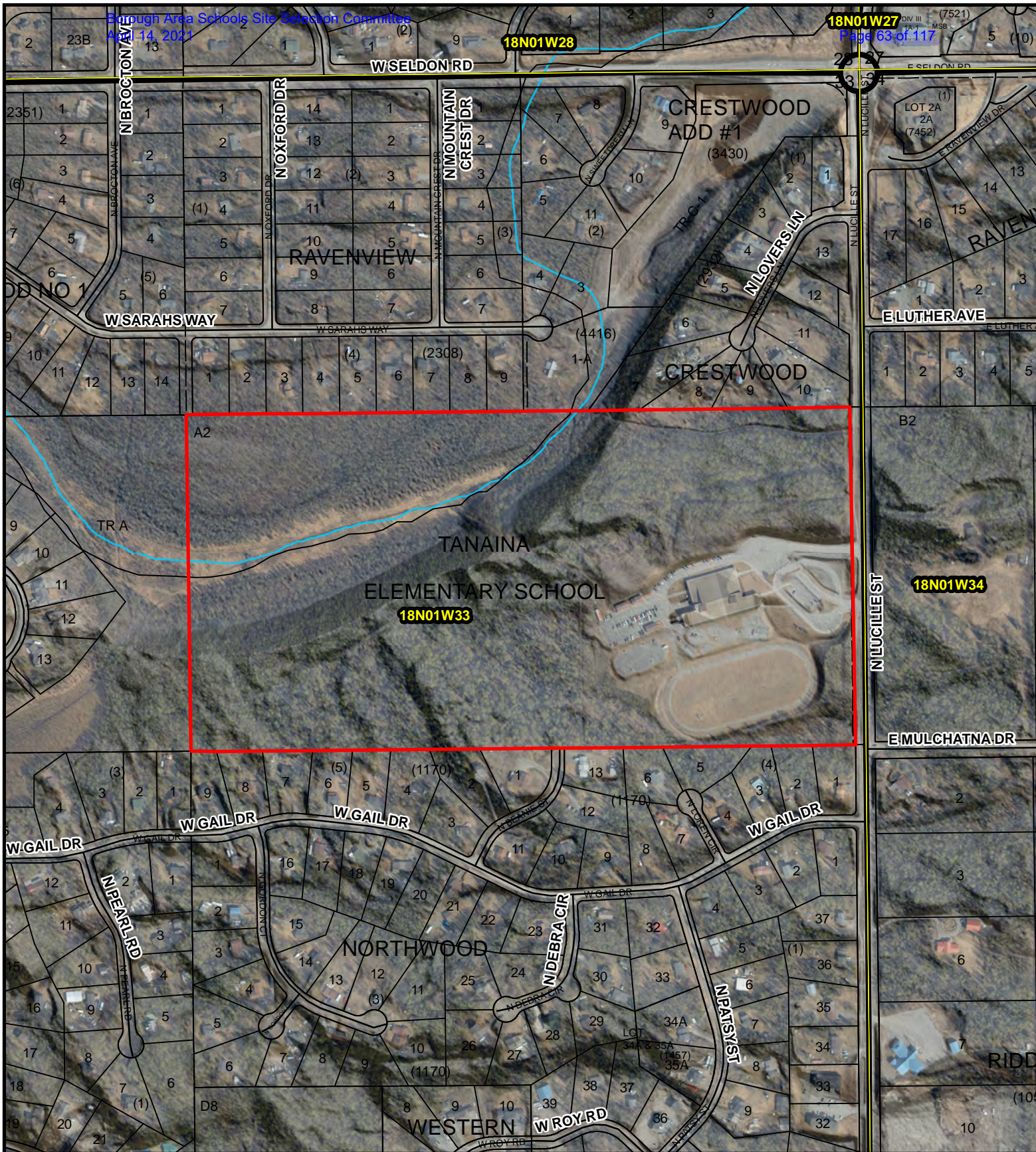
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Feet

Date: July 2019  
Sources: MSB GIS, MSB LRMD, AK DOT  
Projection: NAD 83 AK ST PLN Z4  
Location: SITE 1MSB  
Author: MSB LRMD





Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land



■ SELECTED PARCEL

SITE 2  
18N01W33A002  
80 ACRES  
SCHOOL/TANAINA ELEM



Date: July 2019  
Sources: MSB GIS, MSB LRMD, AK DOT  
Projection: NAD 83 AK ST PLN Z4  
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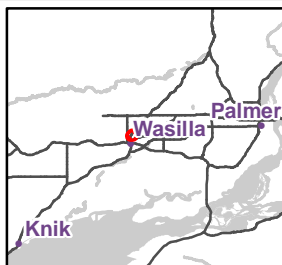




Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land



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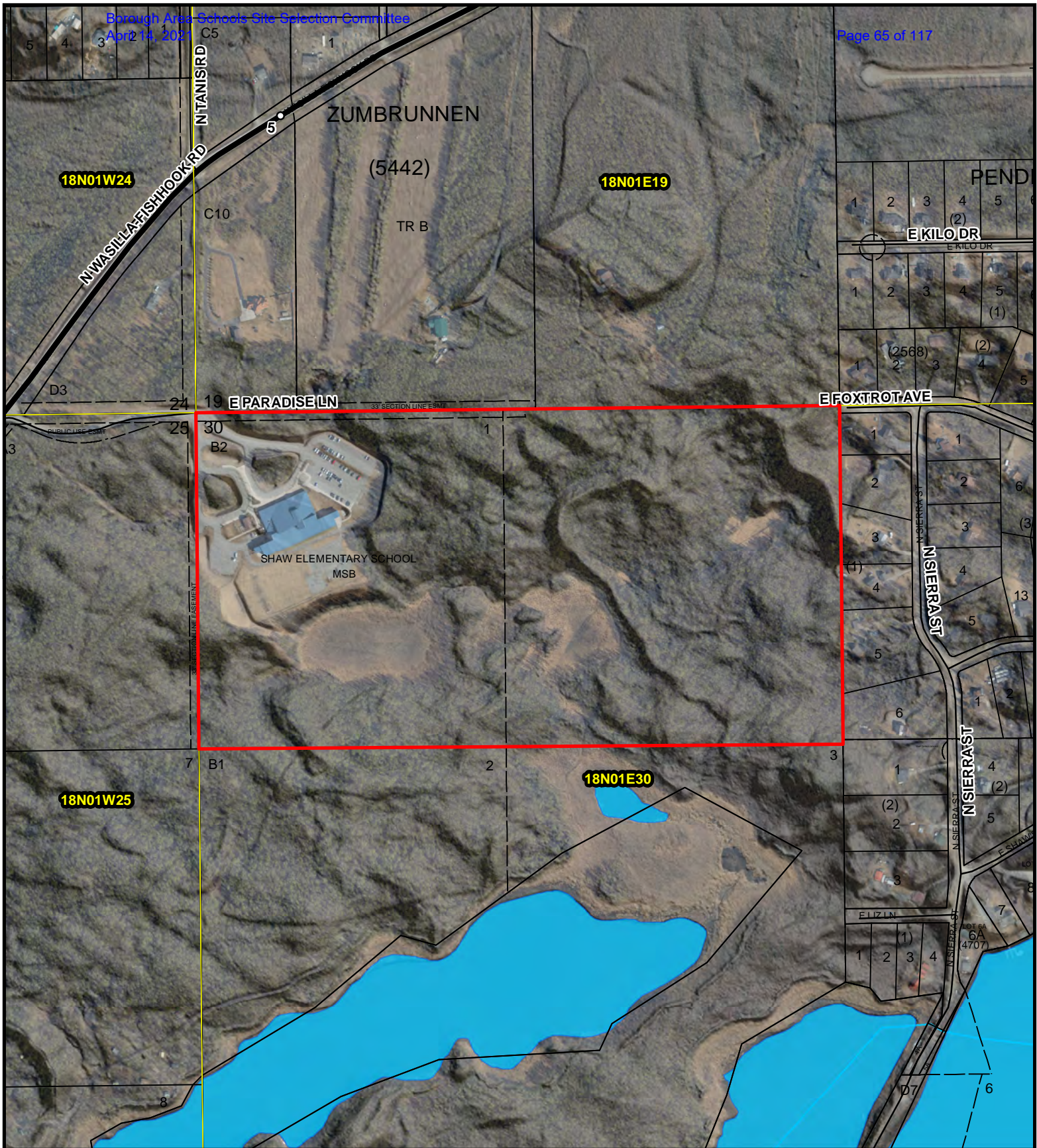
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Author: MSB LRMD

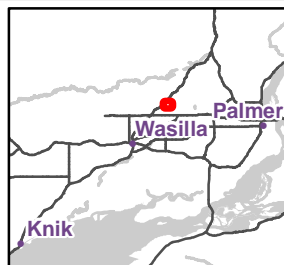




Matanuska - Susitna Borough  
Land and Resource  
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Potential School Sites  
MSB Land



■ SELECTED PARCEL

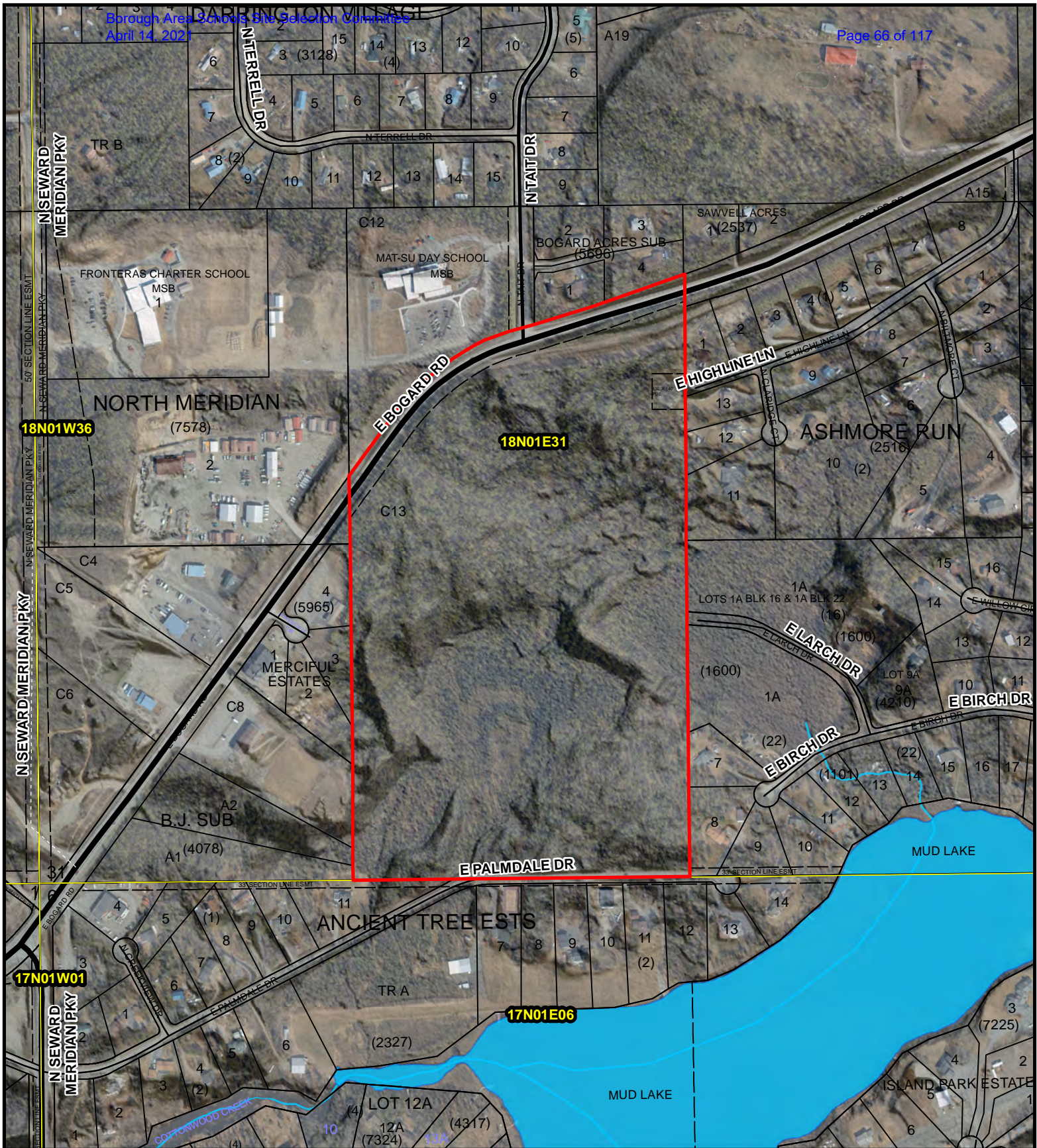
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Feet

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Location: SITE 4MSB  
Author: MSB LRMD

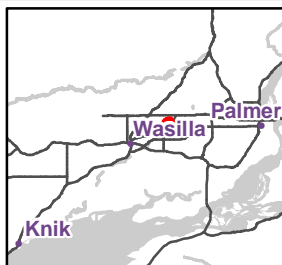




Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land



 SELECTED PARCEL

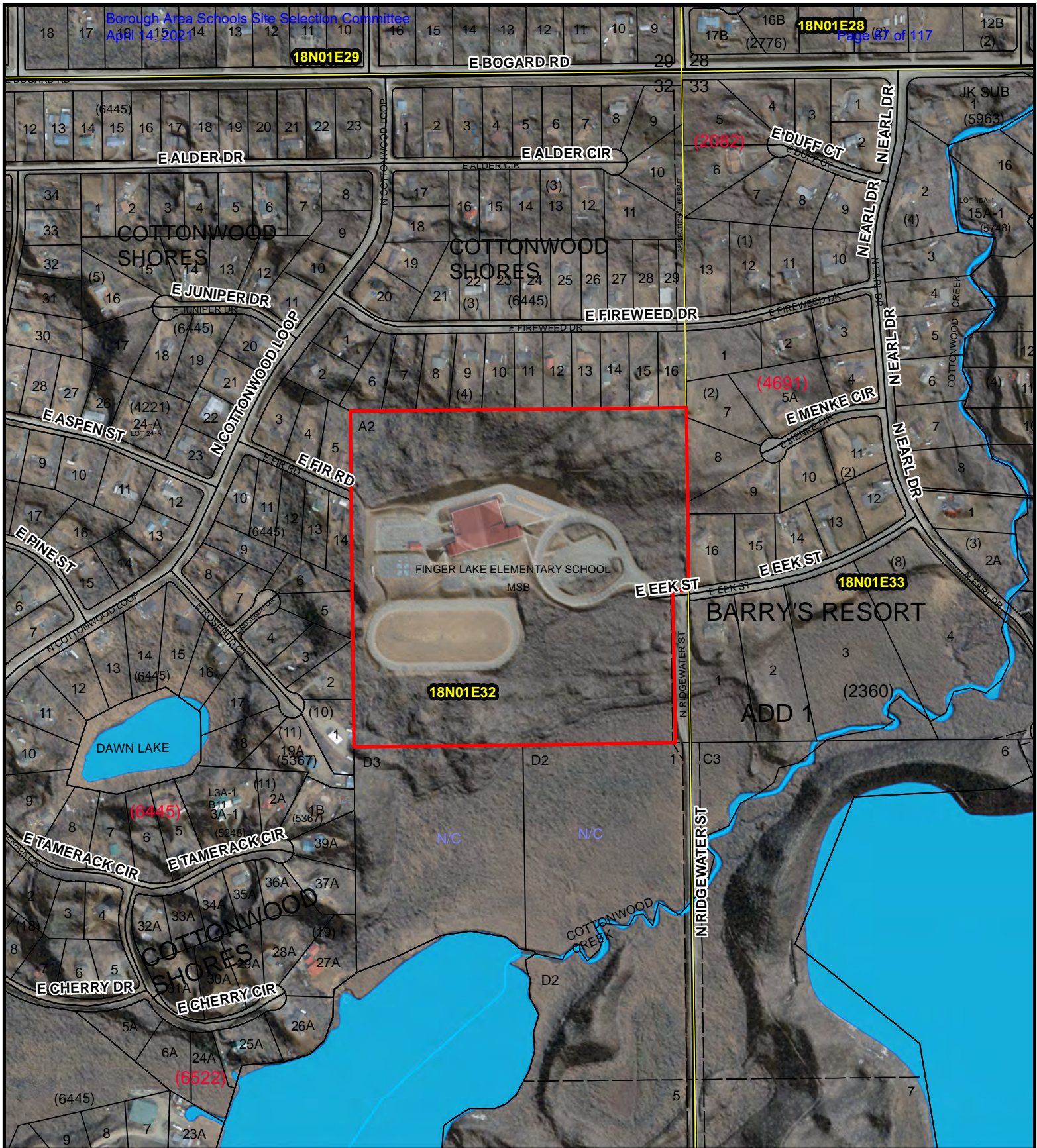
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Author: MSB LRMD

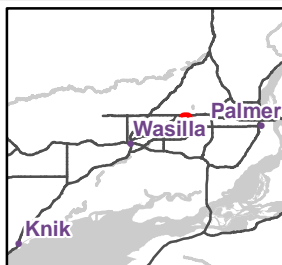




Matanuska - Susitna Borough  
 Land and Resource  
 Management Division



Potential School Sites  
 MSB Land



■ SELECTED PARCEL

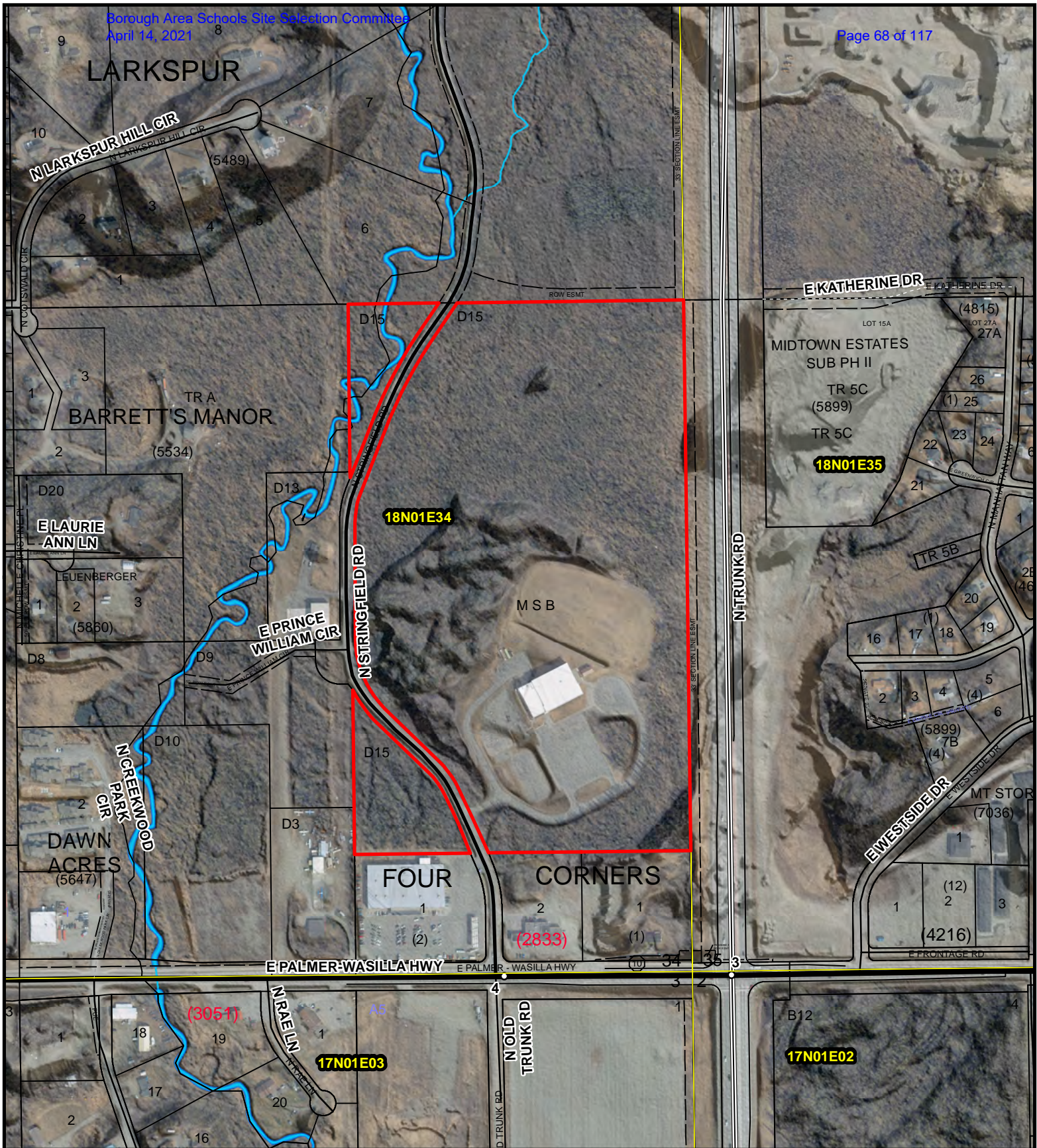
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 39 ACRES  
 SCHOOL/FINGER LAKE ELEM



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 Feet

Date: July 2019  
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 Projection: NAD 83 AK ST PLN Z4  
 Location: SITE 6MSB  
 Author: MSB LRMD





Matanuska - Susitna Borough  
Land and Resource  
Management Division



Potential School Sites  
MSB Land



■ SELECTED PARCEL

SITE 7  
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63.94 ACRES  
SCHOOL/PIONEER PEAK ELEM



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Feet

Date: July 2019  
Sources: MSB GIS, MSB LRMD, AK DOT  
Projection: NAD 83 AK ST PLN Z4  
Location: SITE 7MSB  
Author: MSB LRMD



**Highest and Best Use ranking, site overview, recommendation, (Total Matrix Score)**

#1

Site 7.Stringfield (80/100)

HDL Engineering report states dual use of this property is feasible. Katherine Street connecting to Trunk Road is on the current CIP list for funding and may be able to be moved to the forefront if needed.

**Possible Co-location of Mat-Su Central and Birchtree recommended.**

#2

Site 8.Church-Seldon (90/100)

Subdivision of parent parcel will be required for school site. Recommendation is for potential 10-acre site to access from Church Road due to topographic constraints along Seldon.

**Possible location for American Academy and/or Birchtree.**

#3

Site 4.Shaw Elementary (80/100)

Access onto Wasilla-Fishhook and through subdivision to the east. Some topographic constraints which can be overcome, but will certainly add cost to development.

**Possible location for American Academy or Birchtree.**

#4

Site 5.Bogard-Tait (86/100)

Only the north portion has limited uplands. Access onto either major corridor of Bogard or Seward Meridian presents challenges and adds cost to development. Parcel currently classified as Public Recreation with access to Cottonwood Creek. Public will weigh in heavily on use of this parcel and additional traffic therefrom.

**Possible location for American Academy or Birchtree.**

#5

Site 3.Iditarod Elementary (82/100)

Only available ground is 3-acre +/- within north portion of parcel. There is a platted 60' wide PUE accessing Wasilla-Fishhook which may require DOT approval onto the state ROW. Additional acreage may be possible to acquire from adjacent private land owner – cost unknown.

**Possible location for American Academy or Birchtree.**

#6

Site 2.Tanaina Elementary (71/100)

Access from Lucille will may require additional improvements to the ROW. Significant topographic constraints exist within west portion of parcel.

**Possible location for American Academy or Birchtree.****Not Recommended**

Site 1.Wyoming Drive (84/100)

While utilities and road accessibility exists, not centrally located and mostly wet. Access into the parcel and development will be challenging with added expense.

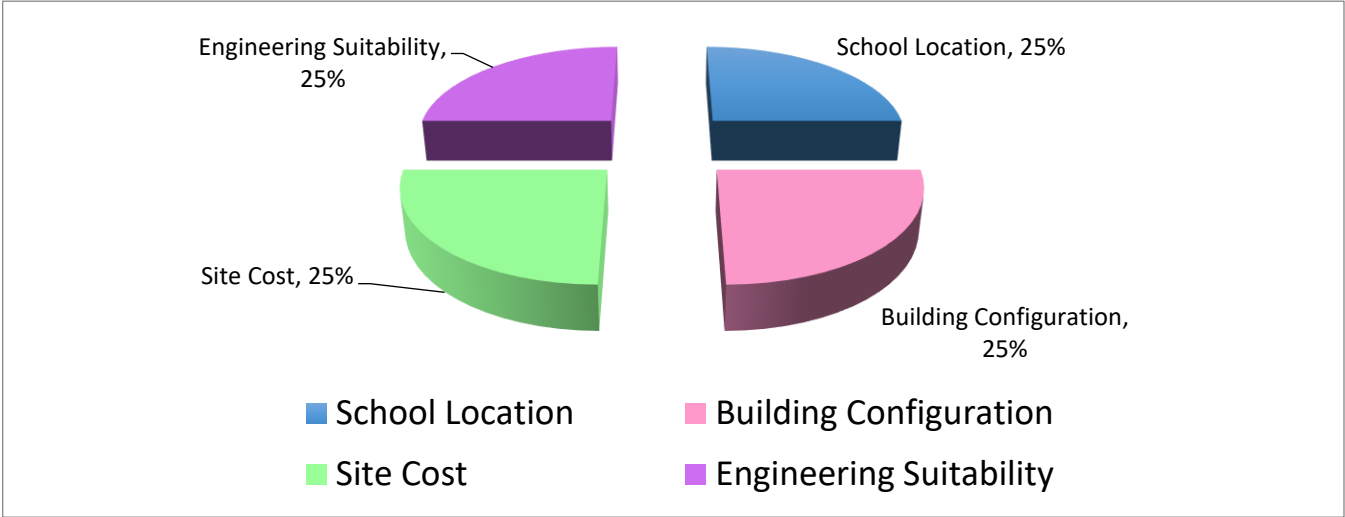
Site 6.Finger Lake Elementary (77/100)

Access may require upgrade to Eek Street. Little to no land available on school grounds for additional facilities, and property to the south is utilized for trails and access to Finger Lake. Contains areas of low-lying ground.





Wyoming Drive Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Wyoming Drive**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	6
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	1
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>16</b>

**Building Configuration Issues - 25 Points Possible**  
**Wyoming Drive**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	2
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
		<b>TOTAL POINTS</b>	<b>23</b>



**Site Cost Issues - 25 Points Possible**  
**Wyoming Drive**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	2
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>		<b>25</b>	

**Engineering Suitability Issues - 25 Points Possible**  
**Wyoming Drive**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	8
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	2
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 20

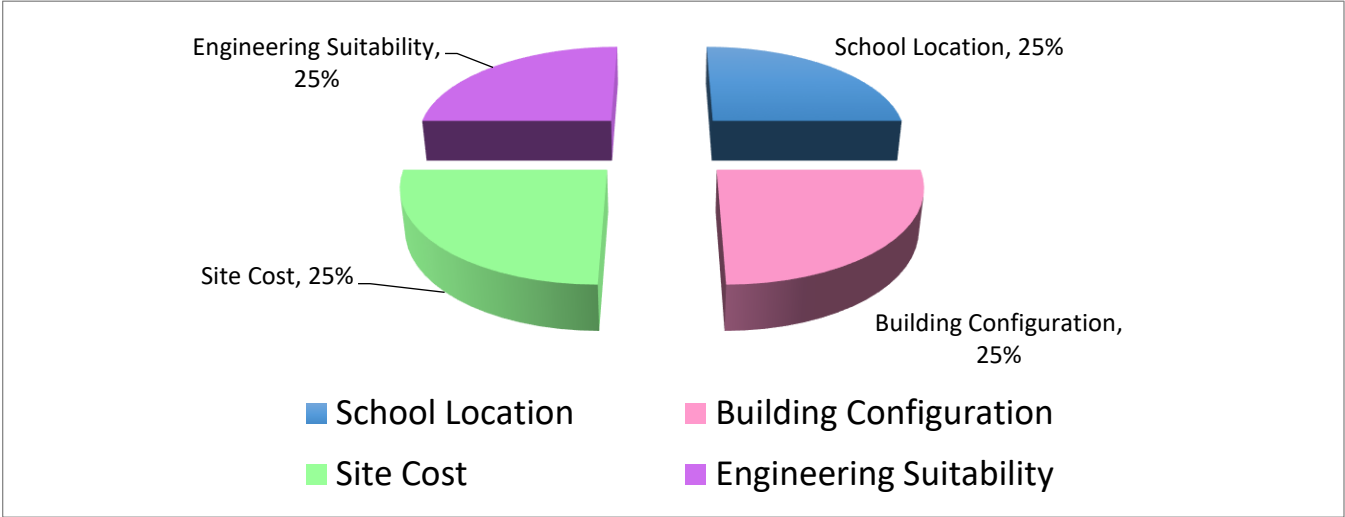
ON-SITE WELL AND SEPTIC REQUIRED. POOR SOILS THROUGHOUT MOST OF SITE EXCEPT FOR NE AND SE CORNERS.  
ACCESS TO EAST SIDE OF PROPERTY WOULD EITHER BE ROAD THROUGH WETLANDS OR NEW ROAD CONSTRUCTION FROM NORTH.

Total Score (84/100)





Tanaina Elementary Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Tanaina Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	4
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	2
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	0
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>14</b>

**Building Configuration Issues - 25 Points Possible**  
**Tanaina Elementary**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	4
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	0
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	2
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
<b>TOTAL POINTS</b>		<b>17</b>	



**Site Cost Issues - 25 Points Possible**  
**Tanaina Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	0
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	0
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>		<b>18</b>	

**Engineering Suitability Issues - 25 Points Possible**  
**Tanaina Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	8
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	4
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 22

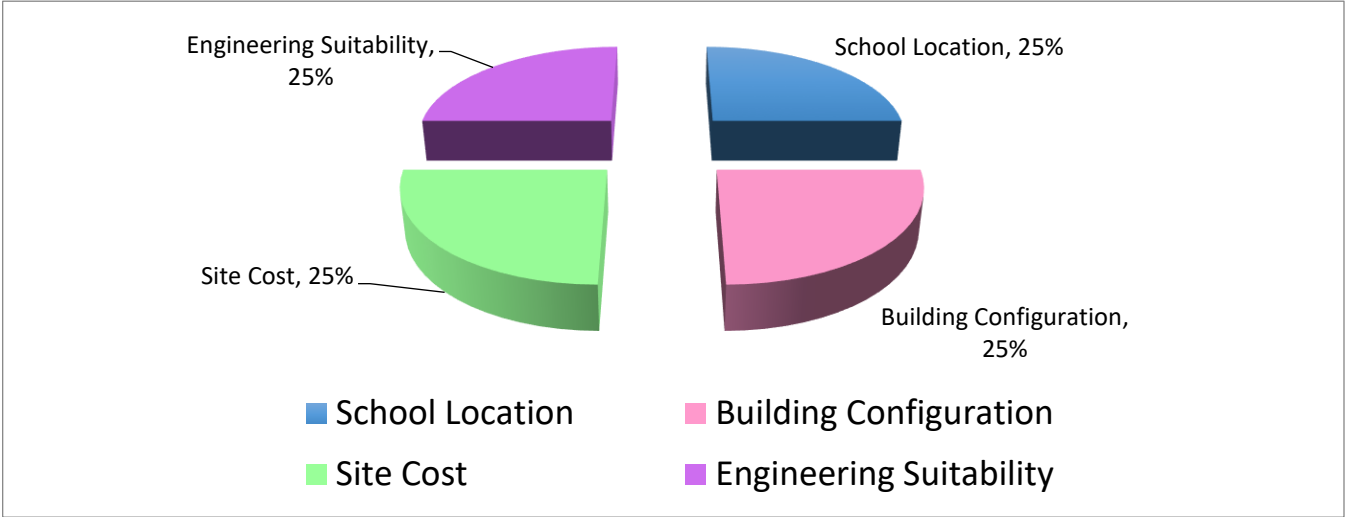
ON-SITE WELL AND SEPTIC REQUIRED. SOME SITE LEVELLING REQUIRED. ACCESS IMPROVEMENTS ARE ALREADY NEEDED ON LUCILLE STREET UNDER EXISTING CONDITIONS. BOROUGH OWNS LUCILLE STREET AND HAS PLANS PARTIALLY DEVELOPED FOR IMPROVEMENTS DATING BACK TO THE 2011 ROAD BOND PACKAGE, BUT THE PROJECT OVERALL WAS UNDERFUNDED AND THESE IMPROVEMENTS WERE NOT COMPLETED.

Total Score (71/100)





Iditarod Elementary Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Iditarod Elementary**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	4
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	2
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	1
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	1
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>17</b>

**Building Configuration Issues - 25 Points Possible**  
**Iditarod Elementary**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	2
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	2
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	2
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
<b>TOTAL POINTS</b>		<b>17</b>	



**Site Cost Issues - 25 Points Possible**  
**Iditarod Elementary**

<b>Criteria</b>	<b>Classification</b>	<b>Possible Points</b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	4
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	2
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>SCORER COMMENTS: LOCATION SERVED BY CITY WATER/SWER</b>		<b>TOTAL POINTS</b>	<b>24</b>

**Engineering Suitability Issues - 25 Points Possible**  
**Iditarod Elementary**

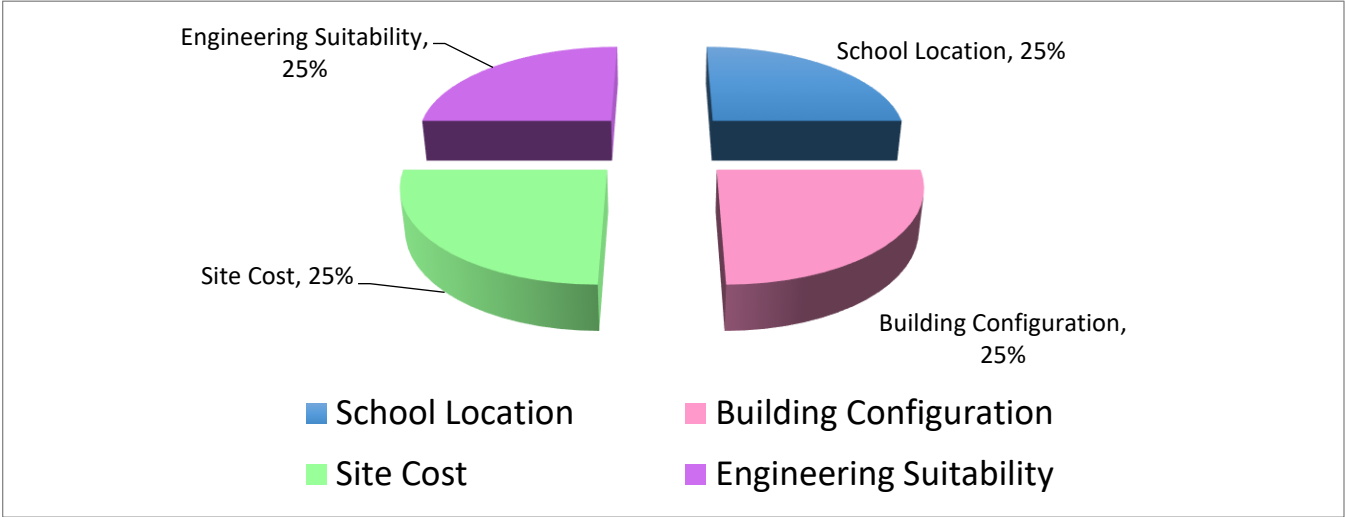
<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	10
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	5
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	1
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>TOTAL POINTS</b>		<b>24</b>	

**Total Score (82/100)**





Shaw Elementary Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Shaw Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	4
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	1
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	0
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>13</b>

**Building Configuration Issues - 25 Points Possible**  
**Shaw Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	0
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
<b>TOTAL POINTS</b>		<b>21</b>	



**Site Cost Issues - 25 Points Possible**  
**Shaw Elementary**

Criteria	Classification	Possible Points	
Available	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
Road Construction Costs	Site is adjacent to desired road category and requires only site access driveways.	5 Points	4
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
Natural Gas Availability Cost	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
Grading Costs	Grading costs are normal given construction expectations as determined by staff.	2 Point	1
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
Water Development Costs	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
Sewage Development Costs	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
Electric Development Costs	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
Telephone Development Costs	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
Broadband Access Cost	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
TOTAL POINTS		23	

**Engineering Suitability Issues - 25 Points Possible**  
**Shaw Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	8
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	5
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 23

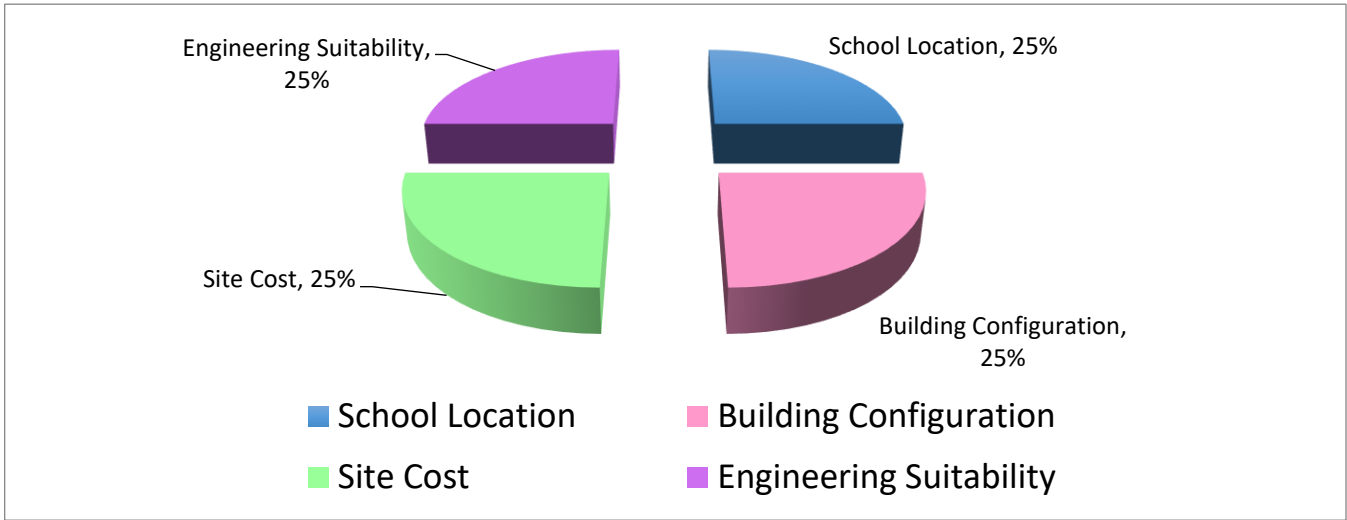
ROADWAY ACCESS ALONG SECTION LINE FROM NEW SCHOOL TO WASILLA-FISHHOK RD. SHOULD BE CONSTRUCTED TO MSB MINOR COLLECTOR ROAD STANDARDS TO COMPLY WITH OSHP. NEW ROAD WILL ALSO CARRY TRAFFIC FOR SHAW AND IT SHOULD BE ASSUMED THAT A TURN LANE WILL BE REQUIRED BY DOT&PF ON WASILLA-FISHHOOK.

Total Score (80/100)





Bogard-Tait Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Bogard-Tait**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	4
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	3
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	2
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>16</b>

**Building Configuration Issues - 25 Points Possible**  
**Bogard-Tait**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	2
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
		<b>TOTAL POINTS</b>	<b>23</b>



**Site Cost Issues - 25 Points Possible**  
**Bogard-Tait**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	2
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>		<b>25</b>	

**Engineering Suitability Issues - 25 Points Possible**  
**Bogard-Tait**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	8
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	4
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 22

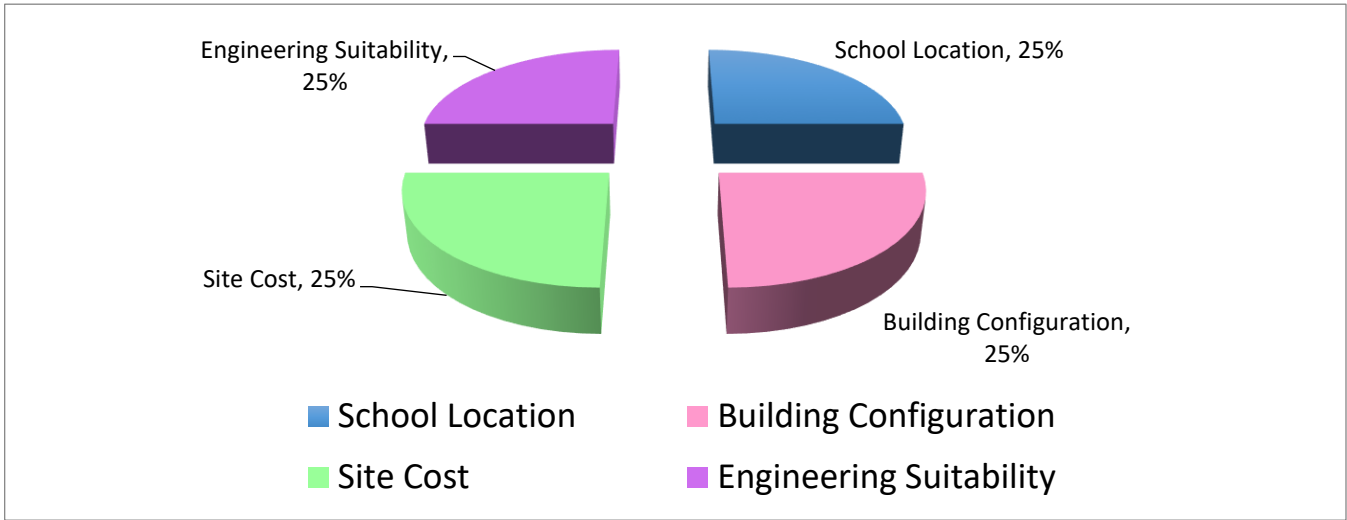
ONSITE WELL/SEPTIC REQUIRED. TOPOGRAPHIC AND WETLAND ISSUES WILL IMPACT COSTS. BETTER SUITED FOR SMALL SCHOOL FACILITY. TRAFFIC ISSUES ASSOCIATED WITH BOGARD-TAIT INTERSECTIONS SHOULD BE PARTIALLY ALLEVIATED UPON COMPLETION OF SEWARD-MERIDIAN PKWY EXTENSION. A TRUN LANE AND FLASHING AMNBER LIGHTS ON BOGARD MAY BE WARRANTED TO FACILITATE SCHOOL TRAFFIC IMPACTS.

Total Score (86/100)





Finger Lake Elementary Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Finger Lake Elementary**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	6
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	1
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>16</b>

**Building Configuration Issues - 25 Points Possible**  
**Finger Lake Elementary**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	2
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	4
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	1
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
<b>TOTAL POINTS</b>		<b>13</b>	



**Site Cost Issues - 25 Points Possible**  
**Finger Lake Elementary**

<b>Criteria</b>	<b>Classification</b>	<b>Possible Points</b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	2
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>		<b>25</b>	

**Engineering Suitability Issues - 25 Points Possible**  
**Finger Lake Elementary**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	8
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	5
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 23

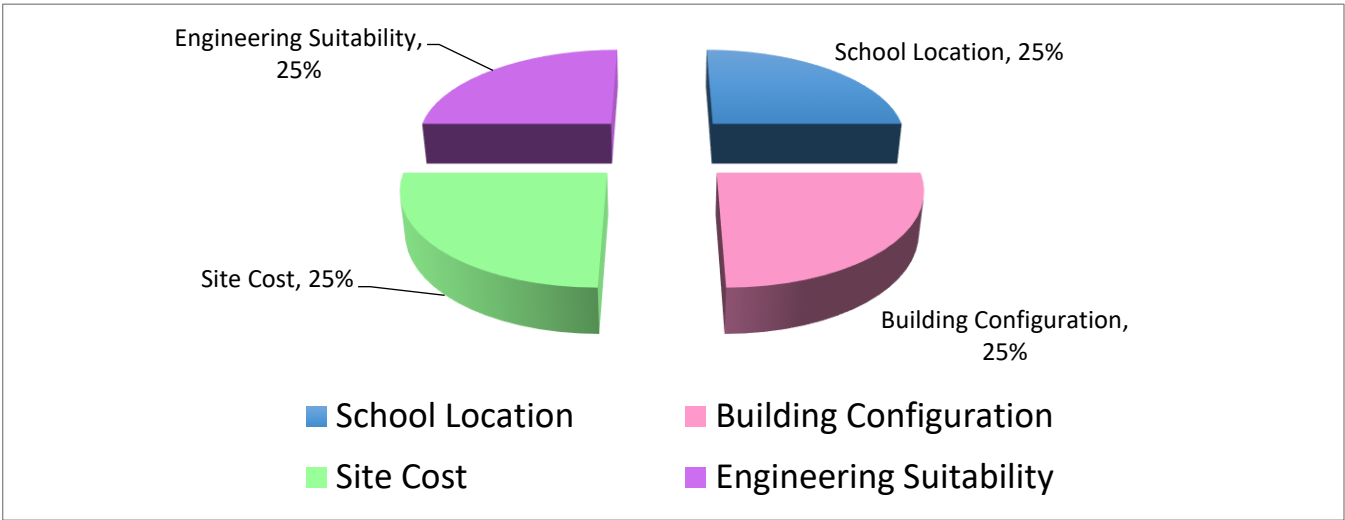
ONSITE WELL/SEPTIC REQUIRED. BOGARD IS A STATE-OWNED ROW WITH DIFFICULT ACCESS TO/FROM BOGARD RD. NO IMPROVEMENTS TO INTERSECTION PROPOSED FOR NEAR FUTURE. EXPECT THAT DOT/PF WILL REQUIRE A NEW TURN LANE ON BOGARD RD.

Total Score (77/100)





Stringfield Site Suitability Criteria - Scored 1.29.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Stringfield**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	8
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	0
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
SCORER COMMENT: THIS SCHOOL SERVES THE ENTIRE MSB AND IS CENTRALLY LOCATED.		TOTAL POINTS	18

**Building Configuration Issues - 25 Points Possible**  
**Stringfield**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	0
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
SCORER COMMENT: NON-TRADITIONAL SCHOOL. MINIMUM SITE REQUIREMENTS.		TOTAL POINTS	21



**Site Cost Issues - 25 Points Possible**  
**Stringfield**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	0
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>		<b>23</b>	

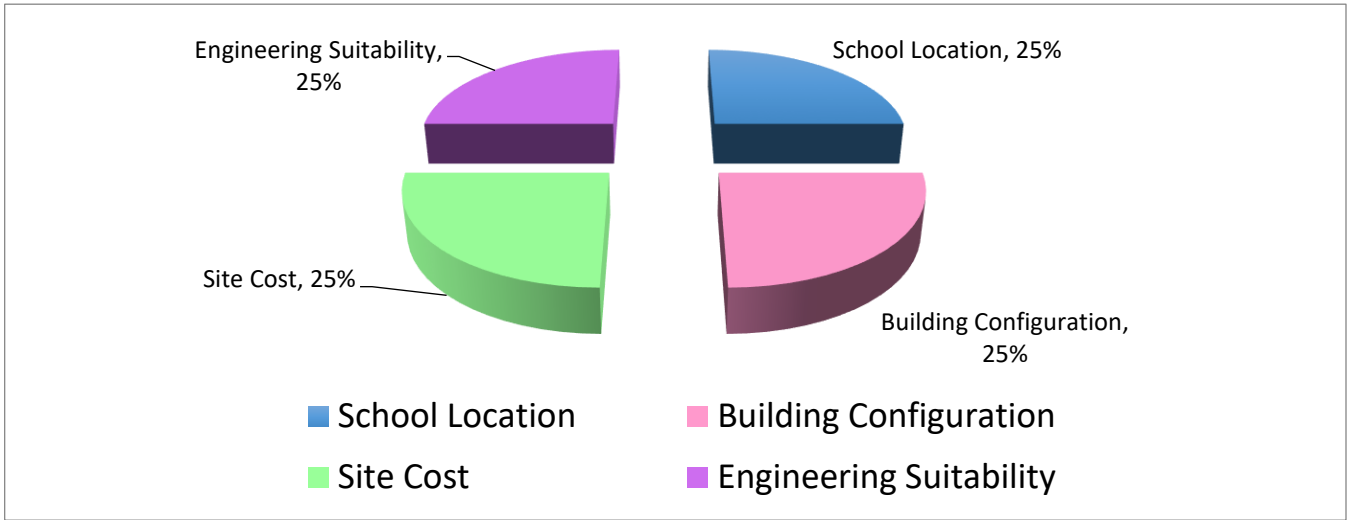
**Engineering Suitability Issues - 25 Points Possible**  
**Stringfield**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	10
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	2
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	1
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
SEE HDL REPORT	TOTAL POINTS	20	
Total Score (80/100)			





Church-Seldon Site Suitability Criteria - Scored 3.31.21



Category	School Location	Building Configuration	Site Cost	Engineering Suitability
Category Score	25%	25%	25%	25%
10-Point Criteria	Center of Existing Student "Cloud"	Size ES=10Ac+1Ac/100Stu MS=20Ac+1Ac/100Stu HS=30Ac+1Ac/100Stu	Available	Access to Urban Infrastructure - Water, Sewer, Electrical
5-Point Criteria	Center of Existing Staff "Cloud"	Adjacency to Appropriate Road Classification ES=Collector MS=Minor Arterial HS=Minor Arterial	Road Construction Costs	Acceptable Soils / Building Foundation Conditions
3-Point Criteria	Proximity to Fire Response Equipment	Ease of Year-Round Access	Natural Gas Availability Cost	Avoids Natural Hazards - Flooding, Erosion
2-Point Criteria	Proximity to Future Growth	Acceptable Topography	Broadband Access Cost	Acceptable Seismic Conditions
1-Point Criteria	Proximity to Other Community Facilities	Positive Solar Orientation Possible	Grading Costs	Acceptable Drainage
1-Point Criteria	Separation from Social Hazards	Acceptable Protection from Elements (Wind)	Water Development Costs	Acceptable Permafrost Stability
1-Point Criteria	Separation from Hazardous Materials Conduits	Nominal Demolition / Excavation Needs	Sewage Development Costs	Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)
1-Point Criteria	Access to Outdoor Recreation / Learning Opportunities	Joint Development Opportunities	Electric Development Costs	All Permitting Viable
1-Point Criteria	Access to Cultural Resources	Access to Pedestrian Facilities	Telephone Development Costs	Acceptable Zoning

**School Location Issues - 25 Points Possible**  
**Church-Seldon**

<u>Criteria</u>	<u>Classification</u>	<u>Possible Points</u>	
<b>Center of Existing Student "Cloud"</b>	Site is less than 10 percent of the distance away from the centroid of the students to be served by the school using the distance from the centroid of the "student cloud" to the edge of the cloud.	10 Points	6
	Site is less than 20 percent of the distance away from the centroid of the students to be served.	8 Points	
	Site is less than 30 percent of the distance away from the centroid of the students to be served.	6 Points	
	Site is less than 40 percent of the distance away from the centroid of the students to be served.	4 Points	
	Site is less than 50 percent of the distance away from the centroid of the students to be served.	2 Points	
	Site is more than 50 percent of the distance away from the centroid of the students to be served.	0 Points	
<b>Center of Existing Staff "Cloud"</b>	Site is between 10-30 percent of the distance away from the centroid of the staff to be served.	3 Points	2
	Site is between 31-50 percent of the distance away from the centroid of the staff to be served.	2 Points	
	Site is less than 50-75 percent of the distance away from the centroid of the staff to be served.	1 Point	
	Site is more than 75 percent of the distance away from the centroid of the staff to be served.	0 Points	
<b>Proximity to Fire Response Equipment</b>	Site is within municipal boundary of Palmer or Wasilla	3 Points	3
	Site is within seven minute fire response service time.	2 Points	
	Site is within eight to fifteen minute fire response service time.	1 Point	
	Site is beyond fifteen minute fire response service time.	0 Points	
<b>Proximity to Future Growth</b>	Service area for site includes actively developing subdivisions and vacant residential land amounting to 40% of the land area of the school zone.	3 Points	3
	Service area for site includes actively developing subdivisions and vacant residential land amounting to 20-39% of the land area of the school zone.	2 points	
	Service area for site includes vacant residential land amounting to 20% of the land area of the school zone.	1 Point	
	Service area for site does not include actively developing subdivisions or vacant residential land.	0 Points	
<b>Separation from Hazardous Materials Conduits</b>	Site is not within 2,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	2 Point	2
	Site is not within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials	1 Point	
	Site is within 1,000 feet separation from a highway, railroad or pipeline transporting hazardous materials.	0 Points	
<b>Separation from Social Hazards</b>	Site is not within 1,000 feet separation from an adult business, convenience store or other social hazard.	1 Point	1
	Site is within 1,000 feet separation from an adult business, convenience store or other social hazard.	0 Points	
<b>Access to Outdoor Recreation / Learning Opportunities</b>	Site is within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	1 Point	1
	Site is not within a ten minute walk of Parks, Trails or Other Outdoor Recreation / Learning Opportunities.	0 Points	
<b>Access to Cultural Resources</b>	Site is within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	1 Point	0
	Site is not within a ten minute walk of Museums, Cultural Centers or Other Cultural Resources.	0 Points	
<b>Proximity to Other Community Facilities</b>	Site is within ten minute walk of Parks, Libraries, or other Community Facilities.	1 Point	0
	Site is not within ten minute walk of Parks, Libraries, or other Community Facilities.	0 Points	
		<b>TOTAL POINTS</b>	<b>18</b>

**Building Configuration Issues - 25 Points Possible**  
**Church-Seldon**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Size</b> <b>ES=10Ac+1Ac/100Stu</b> <b>MS=20Ac+1Ac/100Stu</b> <b>HS=30Ac+1Ac/100Stu</b>	Site complies with size requirements	10 Points	10
	Site is within 98% of size requirements	8 Points	
	Site is within 96% of size requirements	6 Points	
	Site is within 94% of size requirements	4 Points	
	Site is within 92% of size requirements	2 Points	
	Site is less than 92% of size requirements	0 Points	
<b>Adjacency to Appropriate Road Classification</b> <b>ES=Collector</b> <b>MS=Minor Arterial</b> <b>HS=Minor Arterial</b>	Site is immediately adjacent to the desired road category.	5 Points	5
	Site is within one land parcel of the desired road category.	4 Points	
	Site is within two land parcels of the desired road category.	3 Points	
	Site is adjacent to a different road category than desired, but still deemed acceptable by staff.	2 Points	
	Site is within three land parcels of the desired road category.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Ease of Year-Round Access</b>	Site is served by highways and major roads that have existing year-round maintenance.	2 Points	2
	Site is served by highways and major roads that require slight adjustment of year-round maintenance patterns and schedules, but no extension of service.	1 Points	
	Site requires extension of maintenance service as determined by staff.	0 Point	
<b>Acceptable Topography</b>	Site requires no overlot grading to achieve desired grade.	2 Points	1
	Site requires minor overlot grading to achieve desired grade as determined by staff and / or facility design.	1 Point	
	Site requires major overlot grading or results in grades in excess of those desired for facility design as determined by staff.	0 Points	
<b>Access to Pedestrian Facilities</b>	Site has immediate access to significant sidewalk network or pedestrian trail network.	2 Points	0
	Site does not have access to sidewalks or trails.	0 Points	
<b>Positive Solar Orientation Possible</b>	Site presents opportunity for facility orientation satisfying passive solar design goals as determined by staff.	1 Point	1
	Site does not present opportunity for passive solar facility orientation.	0 Points	
<b>Acceptable Protection from Elements (Wind)</b>	Site presents opportunity for facility orientation satisfying wind protection design goals as determined by staff.	1 Point	1
	Site does not present opportunity for protection from wind.	0 Points	
<b>Nominal Demolition / Excavation Needs</b>	Site does not include structures that require demolition or significant topographical irregularities.	1 Point	1
	Site includes structures that require demolition or significant topographical irregularities requiring grading.	0 Points	
<b>Joint Development Opportunities</b>	Site presents opportunity for joint development or use between MSB School District and Borough or other agency.	1 Point	1
	No joint development opportunities.	0 Points	
		<b>TOTAL POINTS</b>	<b>22</b>



**Site Cost Issues - 25 Points Possible**  
**Church-Seldon**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Available</b>	Site is owned by the Borough or can be donated.	10 Points	10
	Site is available within appraised value.	8 Points	
	Site is available within 105% of appraised value.	6 Points	
	Site is available within 110% of appraised value.	4 Points	
	Site is available within 115% of appraised value.	2 Points	
	Site cost is in excess of 115% of appraised value.	0 Points	
<b>Road Construction Costs</b>	Site is adjacent to desired road category and requires only site access driveways.	5 Points	5
	Site is two hundred feet away from desired road category and requires nominal road construction costs for access.	4 Points	
	Site is four hundred feet away from desired road category and requires reasonable road construction costs for access.	3 Points	
	Site is six hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	2 Points	
	Site is eight hundred feet away from desired road category and requires road construction costs for access deemed acceptable by staff.	1 Point	
	Site is one thousand or more feet away from desired road category and requires significant road construction costs.	0 Points	
<b>Natural Gas Availability Cost</b>	Site is adjacent to necessary gas lines and only requires normal tapping costs.	2 Points	2
	Site is within four hundred feet of necessary gas lines and requires nominal line extension costs as deemed acceptable by staff.	1 Point	
	Site requires significant gas line extension costs as determined by staff or does not have gas available to the site.	0 Points	
<b>Grading Costs</b>	Grading costs are normal given construction expectations as determined by staff.	2 Point	2
	Grading costs are constrained by existing soil conditions given construction expectations determined by staff	1 point	
	Grading costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Water Development Costs</b>	Water development costs are normal given construction expectations as determined by staff.	2 Point	2
	Water development costs are constrained by existing conditions given construction expectations determined by staff	1 point	
	Water development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Sewage Development Costs</b>	Sewage development costs are normal given construction expectations as determined by staff.	1 Point	1
	Sewage development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Electric Development Costs</b>	Electric development costs are normal given construction expectations as determined by staff.	1 Point	1
	Electric development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Telephone Development Costs</b>	Telephone development costs are normal given construction expectations as determined by staff.	1 Point	1
	Telephone development costs are excessive given construction expectations as determined by staff.	0 Points	
<b>Broadband Access Cost</b>	Site is adjacent to broadband access lines and only requires nominal linkage costs.	1 Points	1
	Site is remote from broadband access lines and requires significant extension costs as determined by staff.	0 Points	
<b>TOTAL POINTS</b>			<b>25</b>

**Engineering Suitability Issues - 25 Points Possible**  
**Church-Seldon**

<b><u>Criteria</u></b>	<b><u>Classification</u></b>	<b><u>Possible Points</u></b>	
<b>Access to Urban Infrastructure - Water, Sewer, Electrical</b>	Site is immediately adjacent to urban infrastructure.	10 Points	10
	Site is within two hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	8 Points	
	Site is within four hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	6 Points	
	Site is within six hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	4 Points	
	Site is within eight hundred feet of urban infrastructure and requires acceptable extension costs as determined by staff.	2 Points	
	Site requires unacceptable urban infrastructure extension costs.	0 Points	
<b>Acceptable Soils / Building Foundation Conditions</b>	No soil / building foundation challenges exist. Site is completely outside of identified problem soil zones.	5 Points	5
	Site may be slightly within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with nominal cost as determined by staff.	4 Points	
	Site may be partially within problem soil zones. Minor soil / building foundation challenges exist, but can be addressed with reasonable cost as determined by staff.	3 Points	
	Site is well within problem soil zones. Soil / building foundation challenges exist, but can be addressed with acceptable cost as determined by staff.	2 Points	
	Site is predominantly within problem soil zones. Soil / building foundation challenges exist, further soil testing is warranted, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Avoids Natural Hazards - Flooding, Erosion</b>	No natural hazard, erosion, and flooding conditions exist.	3 Points	3
	Minor natural hazard conditions exist, but do not result in significant hazard or mitigation cost as determined by staff.	2 Points	
	Natural hazard conditions exist. Further evaluation or study is required, but site remains viable as determined by staff.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Seismic Conditions</b>	No seismic issues exist.	2 Points	2
	Seismic conditions meet appropriate governmental requirements.	1 Point	
	Site does not meet requirements.	0 Points	
<b>Acceptable Drainage</b>	Drainage conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Permafrost Stability</b>	Permafrost stability conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Not Susceptible to Forest Fire (Avoidance of Spruce Beetle Infestations)</b>	Forest fire susceptibility conditions meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>All Permitting Viable</b>	All permitting is viable and meets appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	
<b>Acceptable Zoning</b>	Zoning issues of site meet appropriate governmental requirements.	1 Point	1
	Site does not meet requirements.	0 Points	

ENGINEERING NOTES: TOTAL POINTS 25

ONSITE WELL/SEPTIC REQUIRED. VERY DENSE, SILTY SOILS WHICH MAY BE DIFFICULT FOR SEPTIC SYSTEM. WETLANDS EXIST IN NE CORNER WITH SEASONAL GROUNDWATER SEPAGE (SURFACE/UNDERGROUND WATER EXPERIENCED BY STAFF). CHURCH RD IS A STATE-OWNED ROW AND WILL REQUIRE FLASHING AMBER SCHOOL ZONE LIGHTS AND TURN LANES.

Total Score (90/100)