MEMORANDUM

CITY/BOROUGH OF JUNEAU 155 South Seward Street, Juneau, Alaska 99801

DATE:

July 25, 2014

TO:

Planning Commission

FROM:

Eric Feldt, Planner II, CFM

Community Development Department

FILE NO.:

CSP2014 0015

PROPOSAL:

A State consistency permit for DOT/ PF to install road block gates along Thane

Road for increased avalanche safety.

GENERAL INFORMATION

Applicant:

State of Alaska

Property Owner:

State of Alaska

Property Address:

Thane Road Right-of-Way (State of Alaska)

Legal Description:

Right-of-Way

Parcel Code No.:

N/A

Site Size:

1.3 miles (approx.) between gates

Comprehensive Plan Future

Land Use Designation:

Resource Development; Waterfront Commercial Industrial; and Rural

Dispersed Residential

Zoning:

D-1 & Rural Reserve

Utilities:

Public Water; Private Sewer

Access:

Thane Road

Existing Land Use:

Right-of-Way

Surrounding Land Use:

North - RR & D-1; Vacant Property

South - RR & D-1; Vacant Property

East - RR & D-1; Vacant Property

West - Gastineau Channel

Planning Commission File No.: CSP2014 0015 July 30, 2014 Page 2 of 5

Location of Proposed Avalanche Gates (Approx.)



ATTACHMENTS

Attachment	A	Construction Drawings
Attachment	В	Urban Avalanche Path Map
Attachment	C	Public Comment

PROPOSAL

The Alaska State Department of Transportation and Public Facilities (DOT/ PF) is improving avalanche safety along Thane Road by installing two road gates before, and after, several avalanche paths near the two rock dumps. See location map. These gates will block traffic from entering areas of avalanche danger.

Planning Commission File No.: CSP2014 0015 July 30, 2014 Page 3 of 5

BACKGROUND

Thane Road provides the only road access from Juneau to the Rock Dump, Little Rock Dump, AEL&P power lines, Thane Neighborhood, Thane Ore House, and recreational trails. This road runs along the foot of Mount Roberts' and Sheep Mountain's steep hillsides as it follows the tidelands. Avalanches are common along this road, especially near the two rock dumps where snow can often block the road for many hours, leaving people unable to leave or reach their homes.

On an annual basis, DOT/ PF and the City & Borough of Juneau (CBJ) intentionally releases an avalanche at Snowslide Creek near the Little Rock Dump to minimize future avalanche build up and to reduce the duration of road blockage of future avalanches as well. This is done by firing ordnance through a howitzer from Downtown Douglas. This will continue to be done in the future.

ANALYSIS

One gate will be installed before the Little Rock Dump and the second gate will be installed 1.3 miles south. There are three large avalanche chutes between the gates: 1) Snowslide Creek, located between the main Rock Dump and Little Rock Dump; 2) Cross Bay Creek, located just over 1 mile past (south) of Snowslide Creek; and 3) T014 Middle, located between Snowslide and Cross Bay Creeks chutes. The Snowslide Creek avalanche chute has a return rate interval (naturally released) of 1.2 years, the Cross Bay Creek has a return rate of 4.5 years, and the T014 Middle chute has a return rate of 14.6 years. See Attachment A for construction drawings and Attachment B for map of the avalanche paths. All three avalanche chutes pose danger to users of Thane Road.

The area between the proposed gates is heavily forested on the uphill side of the road and undeveloped tidelands on the waterside. All properties along the proposed gates are owned by the CBJ, Federal government, or AJT Mining Properties Inc.; some mining claims are located on these lands. The CBJ Docks & Harbors have leased portions of the tidelands between the two rock dumps for a private entity to construct a new port. The developer has not yet obtained permits to construct the port.

The Thane Campground (Operated by CBJ Parks & Rec.) is located on the uphill side of Thane Road next to the northerly proposed road gate. Since this campground is only open during the summer, it will not be affected by this proposal.

Both gates will be installed within DOT/ PF rights-of-way and would not affect adjacent land ownership.

Planning Commission File No.: CSP2014 0015 July 30, 2014 Page 4 of 5

Gregory Patz, DOT/ PF Maintenance & Operations Supervisor, describes the use of the proposed gates:

"These gates will be used in the event of an avalanche that covers the road, or when we are conducting avalanche control operations (artillery firing). In the first case, as soon as we discover that an avalanche has covered the road, we will lower the gates to prevent traffic from entering the avalanche zone, so that we can conduct control measures and clean up. In the second case, we will issue public notice of planned avalanche control operations, then conduct a sweep of the road between the two gates, and then close the gates prior to artillery firing."

"Other avalanche safety measures in the area include warning signs advising motorists to not stop in the avalanche zone, and frequent observations to determine the need for avalanche control operations."

The proposed road block gates will increase the safety of those using Thane Road during avalanches and warnings. The gates will be effective in keeping people safe from potential harm.

CBJ Emergency Programs Manager and avalanche forecaster, Tom Mattice, reviewed the proposal and stated "This is an industry standard practice and I support it."

CONFORMITY WITH ADOPTED PLANS

The CBJ Land Use code contains specific permitting processes when developing in mapped avalanche/ landslide zones, as located in the adopted 1987 map set. There are no proposed changes to the adopted maps.

The avalanche chapter of the 2012 All-Hazards Mitigation Plan specifically addresses avalanche chutes along Thane Road. "Large slides can occur on Thane Road and heavily used areas near Basin Road." This Plan indicates +19 avalanche paths along Thane Road. There are no specific recommendations for avalanche mitigation along Thane Road. With that said, there are several safety measures that are promoted in this chapter that the CBJ continues to do, such as having a full-time avalanche forecaster and holding annual public education meetings on avalanche awareness and safety.

The 2013 Comprehensive Plan discusses the hazards of avalanches to populated areas, mentions the 1987 map set, as well as the 2012 Mitigation Plan. Although there are no specific recommendations for Thane Road, the following policy is relevant to the proposal:

POLICY 7.17 TO MINIMIZE THE THREAT TO HUMAN SAFETY AND DEVELOPMENT POSED BY LANDSLIDES (MASS WASTING) AND AVALANCHES.

Planning Commission File No.: CSP2014 0015 July 30, 2014 Page 5 of 5

Again, the purpose of the road gates is to provide greater public safety avalanche measure along Thane Road. Therefore, the proposal is consistent with adopted plans.

HABITAT

No mapped habitat regulated by the CBJ Land Use Code will be affected by the project.

PUBLIC COMMENT

Staff received a letter from the public who did not want a road closure and, instead, provided an alternative idea by having DOT/ PF install a light post that would flash yellow for 'high avalanche danger' and red for 'closure'. See Attachment C. Staff sent this letter to the applicant and asked for the alternative idea to be addressed. The applicant's response to the letter is provided below.

"The intended purpose of the gates is for times when either an avalanche covers Thane road or when DOT&PF is actively conducting avalanche control operations (artillery firing). During these times, it is crucial to have positive traffic control in the avalanche zone to allow DOT&PF maintenance workers to safely and efficiently perform the roadway maintenance. The gates will not be closed beyond these events. Flashing lights would not provide the positive level of traffic control needed to assure the safety of the public during these operations."

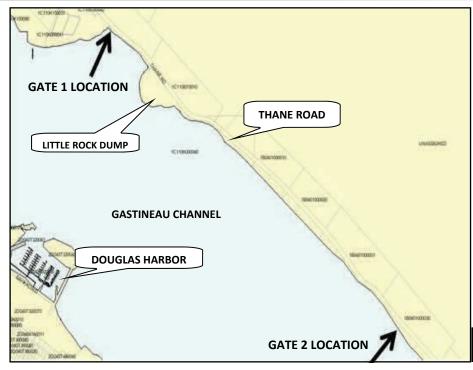
FINDINGS

The proposal will protect the health and safety of the public along Thane Road by blocking traffic during times of avalanche emergencies. Although avalanches can be forecasted, predicting the time of an avalanche release can be difficult. The alternative presented by the public provides less protection for the public because it would allow people to be in an area of avalanche danger during times of high avalanche danger (yellow flashing light according to the alternative approach).

RECOMMENDATION

It is recommended that the Planning Commission adopt the Director's analysis and findings and grant the requested State Consistency Permit. The permit would allow the development of two road block gates along Thane Road for increased avalanche safety.

NOTICE OF PUBLIC HEARING



City & Borough of Juneau Community Development Department 155 S Seward Street • Juneau, Alaska 99801

SHIP TO:



PROPOSAL: State consistency permit for DOT/PF to install road block gates along Thane Road for increased avalanche safety.

File No:	CSP2014 0015	Applicant:	State of Alaska
То:	Adjacent Property Owners	Property PCN:	0
Hearing Date:	August 12, 2014	Owner:	State of Alaska
Hearing Time:	7:00 PM	Size:	1.3 Miles Long
Place:	Assembly Chambers	Zoned:	N/A
	Municipal Building	Site Address:	Thane Road
	155 South Seward Street	Accessed Via:	Thane Road
	Juneau, Alaska 99801		

PROPERTY OWNERS PLEASE NOTE:

You are invited to attend this Public Hearing and present oral testimony. The Planning Commission will also consider written testimony. You are encouraged to submit written material to the Community Development Department 14 days prior to the Public Hearing. Materials received by this deadline are included in the information packet given to the Planning Commission a few days before the Public Hearing. Written material received after the deadline will be provided to the Planning Commission at the Public Hearing.



If you have questions, please contact Eric Feldt at eric_feldt@ci.juneau.ak.us or at 586-0764.

ALASKA'S CAPITAL CITY Planning Commission Agendas, Staff Reports and Meeting Results can be viewed at www.juneau.org/plancomm.

CITY/STATE PROJECT AND LAND ACTION REVIEW APPLICATION

Project Number	Project Name (15	characters)		Case Number	Date Received
				CSP 20140015	6/26/2014
TYPE OF PROJEC	CT REVIEW:				
City P	roject Review	City Land Acquisition /Disp	osal	✓ State Project R	eview
DESCRIPTION OF The project, within CBS at both ends of the available at the control of the available at the control of the con	J limits, includes i	nstallation of two avalanche gate	s on Ti	hane Road. The new gat	es will be installed
Please attach a cover let	ter to fully explain	the project if there is not adequate s	pace or	n this form.	
CURRENT USE O Alaska DOT&PF Right	F LAND OR B	BUILDING(S):			
Alaska DOT&PF Right	of Way for Thane	e Road			
				2	
		((((((((((((((((((((
PROPOSED USE No Change	OF LAND OR	BUILDING(S):			
DDO IFOT NUMBE	TDC 4000014	TED WITH DDODGO AL			
Is this project associate		ATED WITH PROPOSAL: Land Use Permits? No	Yes	Case No.:	
Capital Improvement Pr	ogram # (CIP)				
Local Improvement Dist	trict # (LID)				
State Project #	ĕ	67840			
ESTIMATED PRO	JECT COST:	\$ Less than 2.5M		•	
For more information permitting process and required for a compl please see the reverse	d the submittals ete application,	CITY/STATE PROJECT FEES Fees Application Fees Total Fee S N/A	<u> </u>	Check No. Receipt	Date
If you need any assis this form, please con Center at 586-0770.				>	

NOTE: MUST BE ACCOMPANIED BY DEVELOPMENT PERMIT APPLICATION FORM

EVEN IF THE PROPOSED PROJECT IS ASSOCIATE WITH OTHER LAND USE PERMITS, THIS APPLICATION <u>MUST</u> BE FILLED OUT

DEVELOPMENT PERMIT APPLICATION

Project	Number CSP20140015 CITY and BOROUGH	H of Jl	JNEAU	Date Nece	ived: 6/26/2014	
Project I (City Staff	Name to Assign Name)					
	Project Description State project No. 67840 SEA A see attached plans	reaw	ide Av	ialanche	Gates,	
ATION	PROPERTY LOCATION Street Address Thane Rd. MP I - MP 3 Legal Description(s) of Parcel(s) (Subdivision, Survey, Block, Tract, Lot) Assessor's Parcel Number(s)		City/Zip			
INFORMATIO	LANDOWNER/LESSEE Property Owner's Name Alaska DOT & PF Mailing Address PO Box 112506 Juneau, AK 99811-2	2506	Contact Pers Greg Lo Home Phone	ckwood	Work Phone: 465-2393 Fax Number:	
	greg. lockwood @ alaska, gov LANDOWNER/ LESSEE CONSENT ****Required for Planning F	Permits, not	needed on Bui			
APPLICANT	I am (we are) the owner(s)or lessee(s) of the property subject to this application at A. This application for a land use or activity review for development on m. B. I (we) grant permission for officials and employees of the City and Bor application. X Alaska DOT & PF Programment of the City and Bor application. X Alaska DOT & PF Programment of the City and Bor application.	ny (our) prop rough of Jur	erty is made w leau to inspect	ith my complete my property as	understanding and permission. needed for purposes of this 26/14	
APP	Landowner/Lessee Signature			Date		
CT /	NOTICE: The City and Borough of Juneau staff may need access to the subject property during regular business hours and will attempt to contact the landowner in addition to the formal consent given above. Further, members of the Planning Commission may visit the property before the scheduled public hearing date.					
Ш	APPLICANT If the same as OWNER, write "SAME" and sign and date and specific					
7	Applicant's Name SAME		Contact Pers	son:	Work Phone:	
PROJI	Mailing Address		Home Phone	:	Fax Number:	
ROJ	Mailing Address E-mail Address X Applicant's Signature		Home Phone	et Phone Numb	Fax Number:	
ROJ	Mailing Address E-mail Address X Applicant's Signature OFFICE USE ONLY BELOW	V THIS LII	Home Phone Other Contac	et Phone Numb	Fax Number: er(s): 26/14 Application	
S	Mailing Address E-mail Address Applicant's Signature OFFICE USE ONLY BELOW Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed)	V THIS LII	Home Phone	et Phone Numb	Fax Number: 26/14 Application plication Number(s)	
LS	Mailing Address E-mail Address X	V THIS LII	Home Phone Other Contac	e: ct Phone Numb	Fax Number: 26/14 Application plication Number(s)	
APPROVALS PROJ	Mailing Address E-mail Address X Applicant's Signature Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands	V THIS LII Date	Home Phone Other Contac	e: ct Phone Numb	Fax Number: 26/14 Application plication Number(s)	
TAFF APPROVALS PROJ	Mailing Address E-mail Address X Applicant's Signature Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands Permits Zone Change Application Other	V THIS LII Date	Home Phone Other Contac	e: ct Phone Numb	Fax Number: 26/14 Application plication Number(s)	
APPROVALS PROJ	Mailing Address E-mail Address X Applicant's Signature —OFFICE USE ONLY BELOW Permit Type Building/Grading Permit City/State Project Review and City Land Action Inquiry Case (Fee In Lieu, Letter of ZC, Use Not Listed) Mining Case (Small, Large, Rural, Extraction, Exploration) Sign Approval (If more than one, fill in all applicable permit #'s) Subdivision (Minor, Major, PUD, St. Vacation, St. Name Change) Use Approval (Allowable, Conditional, Cottage Housing, Mobile Home Parks, Accessory Apartment) Variance Case (De Minimis and all other Variance case types) Wetlands Permits Zone Change Application	Date 6/26	NE	ct Phone Numb CSP20	Fax Number: 26/14 Application plication Number(s)	



Department of Transportation and Public Facilities

SOUTHEAST REGION DESIGN & ENGINEERING SERVICES Preconstruction

6860 Glacier Highway PO Box 112506 Juneau, Alaska 99811-2506 Main; 907.465.4444 Toll free: 800.575-4540

Fax: 907.465.4414

June 26, 2014

Mr. Hal Hart, Community Development Director City and Borough of Juneau 155 South Seward Street Juneau, Alaska 99801

RE:

Federal Project No. 000S845 - State Project No. 67840

Southeast Alaska: Areawide Avalanche Gates

Dear Mr. Hart:

We are submitting the enclosed plans for your review and comment. In addition to a general review, please specifically review for compliance in accordance with AS 35.30.020.

Under AS 35.30.020, the Department must comply with local planning and zoning ordinances and other regulations in the same manner and to the same extent as other landowners. If you believe that the Department's construction of this project would result in a violation of planning, zoning, or other regulations generally applicable to landowners, please identify the portions of the project that would be in violation, and the specific planning, zoning, or other regulations that you believe would be violated.

If we have not received comments regarding the project's compliance with planning and zoning ordinances within 90 days after submittal of these plans, the Department will proceed with the project as planned. If you have any questions, I can be reached by phone at: (907) 465-2393, or by e-mail at: greg.lockwood@alaska.gov.

Sincerely,

Greg Lockwood, P.E.

DOT&PF Project Manager

Enclosure: Preliminary Project Plans

RECEIVED

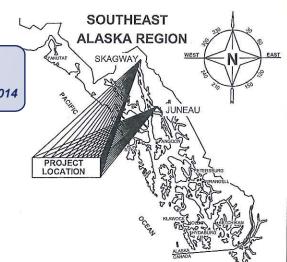
By Community Development at 11:29 am, Jun 26, 2014

State of Alaska

Department of Transportation and Public Facilities Southeast Region

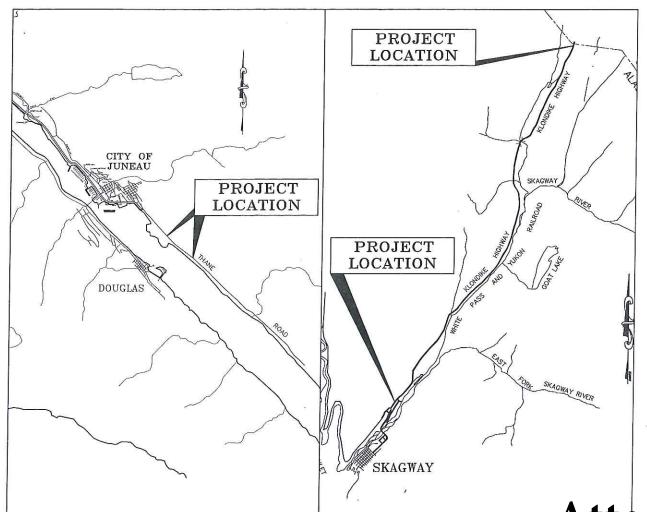
RECEIVED

By Community Development at 11:26 am, Jun 26, 2014



SEA AREAWIDE AVALANCHE GATES: HSIP

THANE ROAD AND KLONDIKE HIGHWAY PROJECT No. 67840/000S(845)



VICINITY MAP

DESIGN DESIGNATION THANE ROAD

A.D.T. 2012	=	1260
A.D.T. 2035	=	1410
D.H.V. (12.1%) 2035	=	170
% T	=	10.6%
V	=	35-45 M.P.H.
E.A.L.	=	350,000

DESIGN DESIGNATION KLONDIKE HIGHWAY

A.D.T. 2012	=	560
A.D.T. 2035	=	630
D.H.V. (12.1%) 2035	=	210
% Т	=	24.8%
V	=	35-45 M.P.H.
E.A.L.	=	250,000

PROJECT SUMMARY

NUMBER OF GATES	=0	5 GATES
LENGTH OF GUARDRAIL	=	20 FEET

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

G-04.1 G-04.1 G-10.0 G-13.0 G-20.1 G-30.1

Attachment A

	ï.			
	INDEX			
SHEET NO.	DESCRIPT	ION		
A1	TITLE SHEET			
A2-A6	SURVEY CONTROL PLAN			
C1	ESTIMATE OF QUANTITIES	3		
E1-E2	DETAILS			
F1-F5	PLAN		-5	
S1	TRAFFIC CONTROL		- 1,8	· · · · · · · ·
		3		
		700		
		910		
				-000

	Transfer and the second of the			
PATH:	· · · · · · · · · · · · · · · · · · ·			
Q:\SEA\67840\E COMPILATION\ PURVES,	NC3DISHEET 67840_A1_TITLE.DWG NATHAN A (DOT)			
TAB: A1	Friday, May 23, 2014 11:54:55 AM			
	OF ALASKA MENT OF TRANSPORTATION			
& PUBLIC	FACILITIES			
SOUTHE	AST REGION			
ANTE.	OF ALAS			
*: 49	TH 20 14			
3 7 : ■	NGINEER :			
Miles.	CE- POFESSIONAL			
ADDBOVE	Mess			
APPROVE	:D.			= =0
	L PRE-CONSTRUCTION ENGINEER ORREA, P.E.	D	ATE	-
APPROVE	ED:			
	R, SOUTHEAST REGION H. CLOUGH, CPG	D/	ATE	
CERTIFIE CONDITIO	D TRUE & CORRECT AS-BUILT OF ACTU N:	JAL FIELD		
CONSTRU	JCTION PROJECT MANAGER	DA	ATE	
STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
ALASKA	67840	2014	NO. A1	SHEETS 15

RECEIVED

By Community Development at 11:26 am, Jun 26, 2014

ESTIMATE OF QUANTITIES				
ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY	
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED	
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	350	
203 (6A)	BORROW, TYPE A	TON	400	
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	40	
608 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	50	
606 (13)	PARALLEL GUARDRAIL TERMINAL	EACH	Ť	
607 (14A)	AVALANCHE GATE AND FOUNDATION	EACH	5	
633 (1)	SILT FENCE	LINEAR FOOT	240	
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	
641 (4)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED	
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	

BASIS OF ESTIMATE			
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTORS	
201(3B)	CLEARING AND GRUBBING	6 ACRES	
203(3)	UNCLASSIFIED EXCAVATION	(ASSUME 840 C.Y. OF WOOD DEBRIS & 8,100 C.Y. OF EXCAVATION FOR WASTE DISPOSAL AREA)	
203(6A)	BORROW, TYPE A	1.7 TON/CY COMPACTED IN-PLACE	
301(1)	AGGREGATE BASE COURSE, GRADING D-1	1.95 TON/CY	
641(3)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	240' OF SILT FENCE OR FIBER ROLL	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

OF AL.

49 IH

ENGINEER

Choresson

DESIGNED BY: P. SPRENGER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

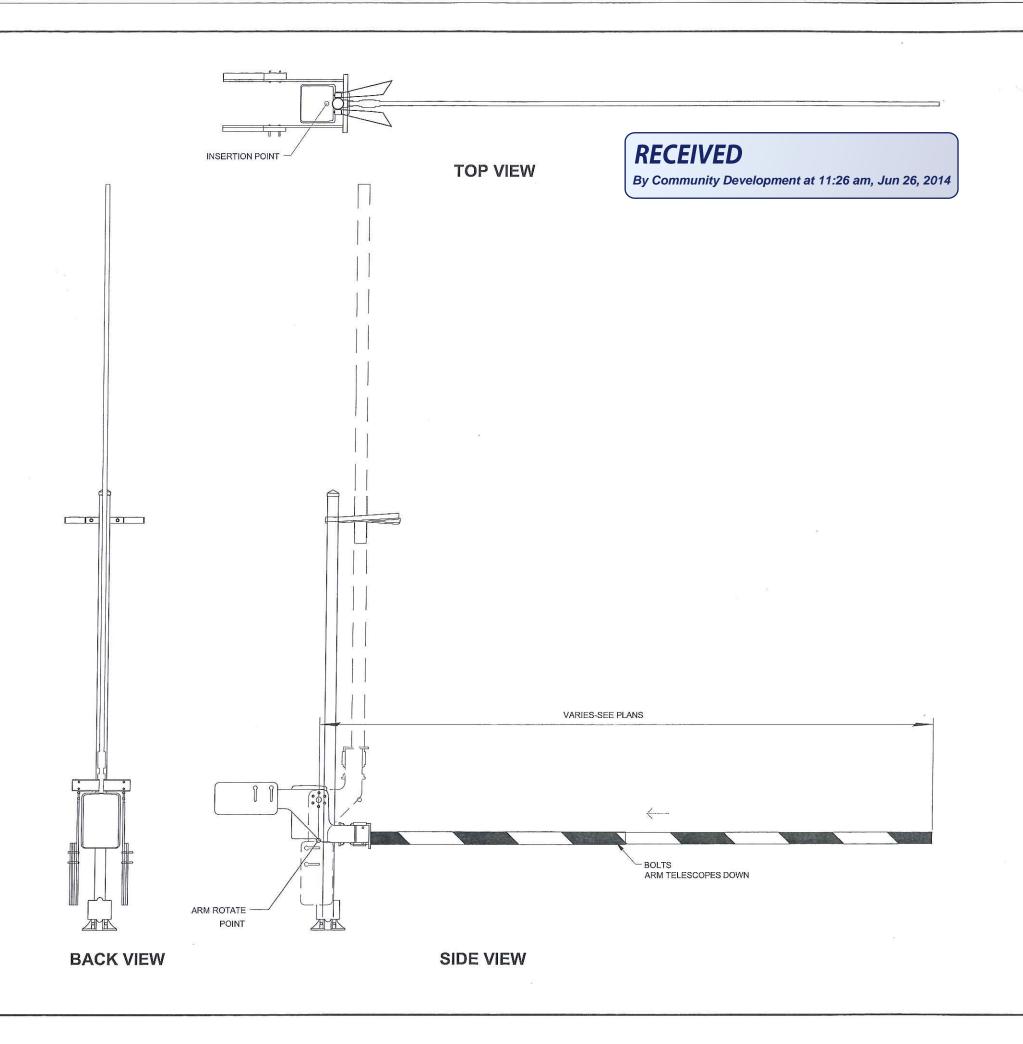
SEA-AREAWIDE AVALANCHE GATES PROJECT #67840

DESIGNED BY: P. SPRENGER
DRAWN BY: P. SPRENGER

ESTIMATE OF QUANTITIES

PATH: Q:\SEA\\67840\EN\C3D\SHEET COMP|LATION\140512 C1 ESTIMATE OF QUANTITIES.DWG
TAB: C1 Friday, May 23, 2014 8:03:16 AM PURVES, NATHAN A (DOT)

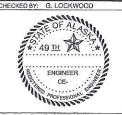
	REV	ISIONS	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
NO.	DATE	DESCRIPTION		1.57.51	NO.	SHEETS
-			67840	2014	C1	15



NOTES:

- 1. PROVIDE SAFETRANS MODEL S-60, TYPE 50 GATE OR B&B ROADWAY MODEL VW-M3 VERTICAL WARNING GATE OR APPROVED EQUAL.
- 2. PROVIDE FIBERGLASS/ALUMINUM GATE ARM ASSEMBLIES. SAFETRANS, TYPE VII, DIAMOND GRADE 076600-32XD FOR GATES 19' TO 32' IN LENGTH AND MODEL 076600-40XD FOR GATES 33' TO 40' IN LENGTH. B&B ROADWAYS, 6005-Y6 ALUMINUM EXTRUDED TUBING.
- 3. PROVIDE SAFETRANS GATES WITH COMPATIBLE HIGH WIND BRACING OR B&B ROADWAYS GATES WITH SID ARM CHANNELS AND CROSS MEMBERS
- 4. GATE ARM LENGTH IS MEASURED RELATIVE TO THE POINT OF ROTATION OF THE GATE.
- 5. PROVIDE SAFETRANS COMPATIBLE HIGH WIND BRACKETS WITH INSTALLATION.
- 6. PROVIDE GATE ARMS IN THE LENGTHS SPECIFIED ON THE "PLAN AND SECTION SHEETS".
- 7. PROVIDE GATES CAPABLE OF MANUAL OPERATION WITH A HANDCRANK OR WITH MECHANICAL OPERATION BY MEANS OF A DRILL TYPE MOTOR.
- 8. A HANDCRANK AND DRILL CRANK SHALL BE SUPPLIED FOR EACH PAIR OF GATES.
- 9. A SOLENOID RELEASE, AUTOMATIC MOTOR BRAKE SHALL BE FURNISHED AS PART OF THE GATE DRIVE MECHANISM. THE BRAKE SHALL AUTOMATICALLY RELEASE WHEN THE HAND CRANK IS INSERTED.
- 10. PLACE GATE ARM TO ALLOW FOR 6 TO 18 INCHES OF VERTICAL CLEARANCE ABOVE THE GUARDRAIL WHEN IN A DOWN POSITION.
- 11. GATES SHALL BE INSTALLED SO THAT GATE ARMS ARE LEVEL WITH THE GROUND WHEN IN THE CLOSED POSITION AND VERTICAL WHEN IN THE OPEN POSITION.
- 12. INSTALL PAIRS OF GATES WITH GATE ARMS AT THE SAME ELEVATION.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



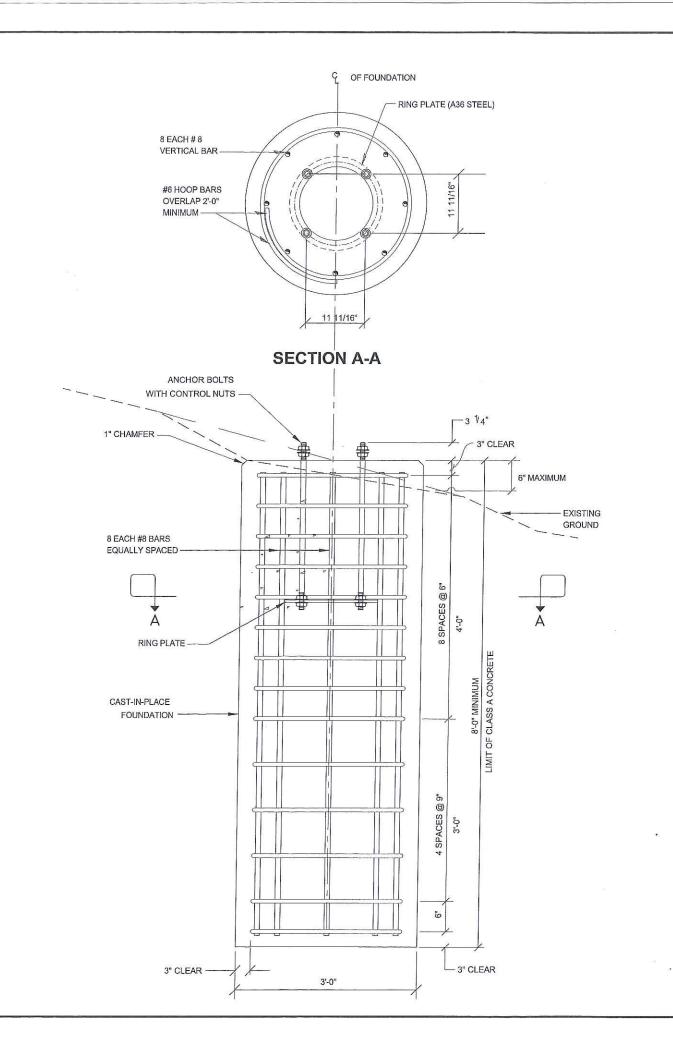
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION

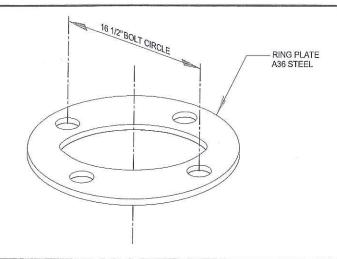
AREAWIDE AVALANCHE GATES PROJECT #67840

DESIGNED BY: P. SPRENGER AVALANCHE GATE DETAIL

PATH: Q:\SEA\67840\EN\C3D\SHEET COMPILATION\67840_E1_DETAILS.DWG
TAB: E1 Friday, May 23, 2014 11:55:11 AM PURVES, N

AB: E1 FIRMAY, MBy 23, 2014 11:30:11 AM PORVES, NATHAN A (DOT)





FOUNDATION NOTES:

<u>DESIGN:</u> AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION 2001.

CONSTRUCTION: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2004 EDITION.

WIND LOAD: 100 MPH

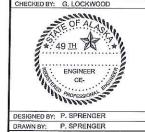
GATE SUPPORT DETAIL: FOUNDATION DESIGN BASED ON A MAXIMUM LENGTH OF 34 FOOT GATE ARM AND A 36 INCH MOUNTING HEIGHT.

MATERIALS PROPERTIES				
CONCRETE	CLASS A	f'c=4000 psi		
REINFORCING STEEL	ASTM A615 GRADE 60	Fy=60 ksi		
ANCHOR BOLT	F1554 GRADE 55	Fy=55 ksi		
BOLT RING PLATE	ASTM A36	Fy=36 ksi		

PORTLAND CEMENT CONCRETE FOUNDATION NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL GEOMETRICS AND ELEVATIONS PRIOR TO CONSTRUCTION. USE TEMPLATE TO POSITION ANCHOR BOLTS.
- 2. CAST ALL PORTLAND CEMENT CONCRETE FOUNDATIONS AT LOCATIONS INDICATED ON THE PLANS.
- 3. COMPLETE ALL CONCRETE WORK IN CONFORMANCE WITH SECTIONS 501, 503 AND 660-3.02 OF THE STATE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 4. CLEAN BOTTOM OF FOUNDATION HOLES OF ALL LOOSE AND UNDESIRABLE MATERIAL BEFORE POURING CONCRETE,
- 5. BACKFILL AND COMPACT THE WORK HOLE USED TO CONSTRUCT THE FORMED AND POURED FOUNDATION IN 8 INCH LIFTS WITH A CEMENT-SOIL MIXTURE, CONSISTING OF 2 SACKS OF PORTLAND CEMENT PER CUBIC YARD OF SOIL.
- 6. USE FINISHED SLOPES AND A STRAIGHT EDGE TO DETERMINE THE TOP OF CONCRETE FOUNDATION. USE BLOCKS, IF NECESSARY TO ALLOW FOR TOPSOIL THICKNESS.
- 7. THE TOP SURFACE OF FOUNDATIONS MAY VARY FROM 6 INCHES BELOW TO 0 INCHES ABOVE THE INTERSECTION OF FINISHED SLOPES AND THE CENTER OF THE FOUNDATION.
- 8. FOR FIELD POURED CONCRETE FOUNDATION, USE 4 EACH ASTM F1554 GRADE 55 ANCHOR BOLTS. BOLT SIZE AND LENGTH AS REQUIRED BY THE STRUCTURE MANUFACTURER.
- 9. SIZE BOLT RING PLATES TO MATCH THE DIMENSIONS AND GEOMETRY OF ANCHOR BOLTS
- 10. OVERLAP ALL HOOP BARS 2'-0" MIN.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION

SEA-AREAWIDE AVALANCHE GATES PROJECT #67840

RECEIVED

By Community Development at 11:26 am, Jun 26, 2014

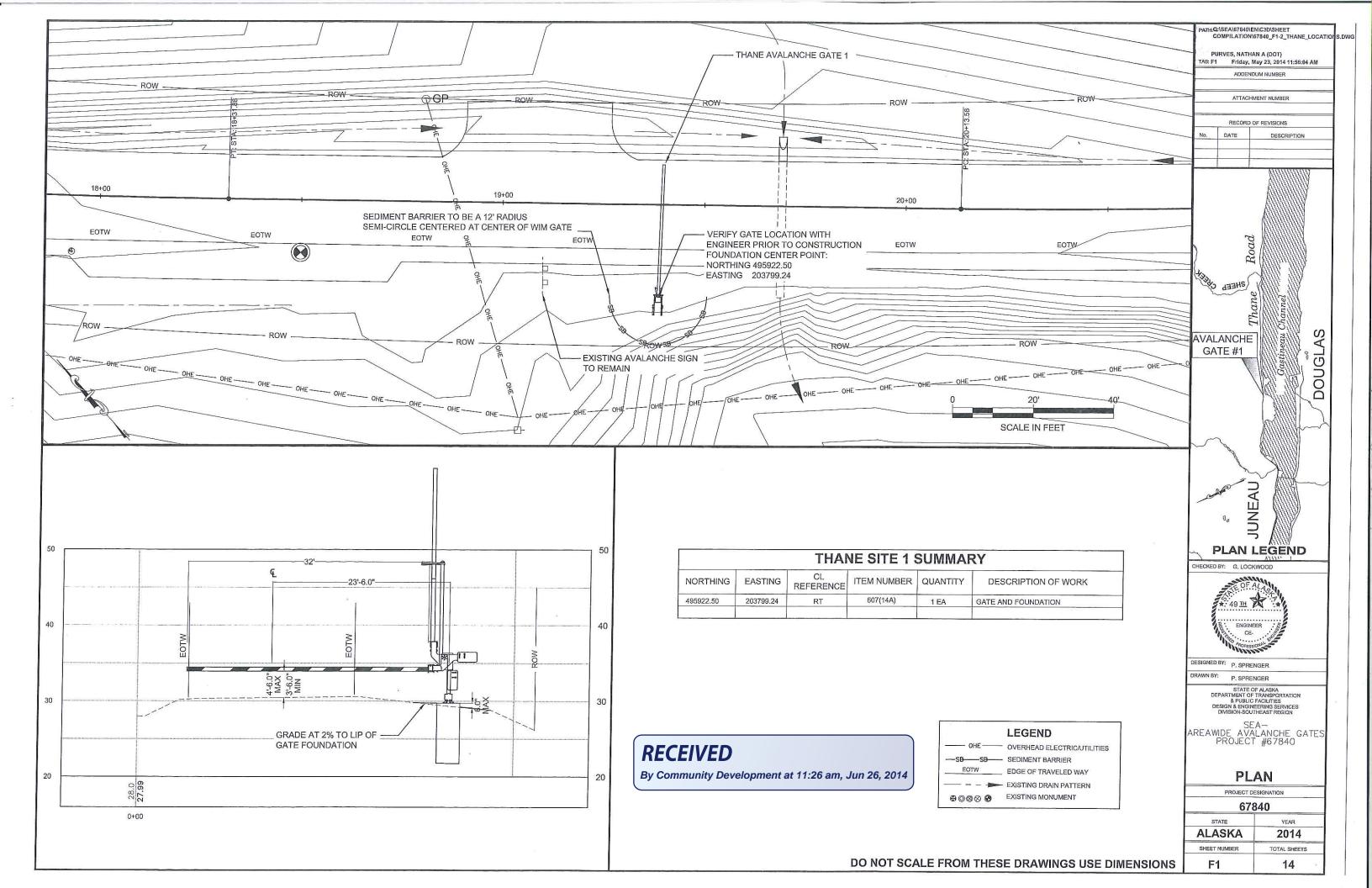
FOUNDATION DETAIL

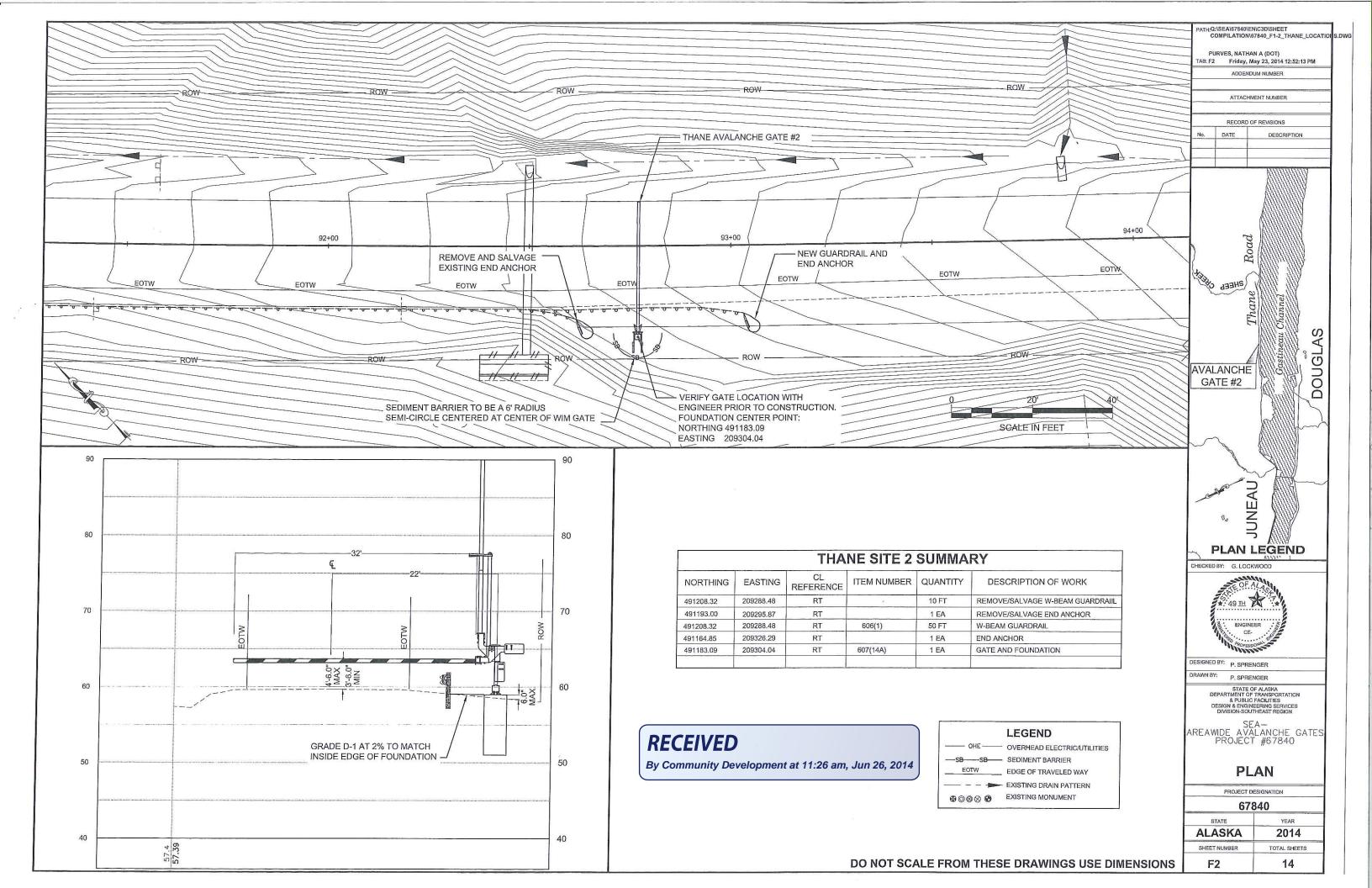
 PATH:
 Q:\SEA\67840\EN\C3D\SHEET COMPILATION\67840_E2_DETAILS.DWG

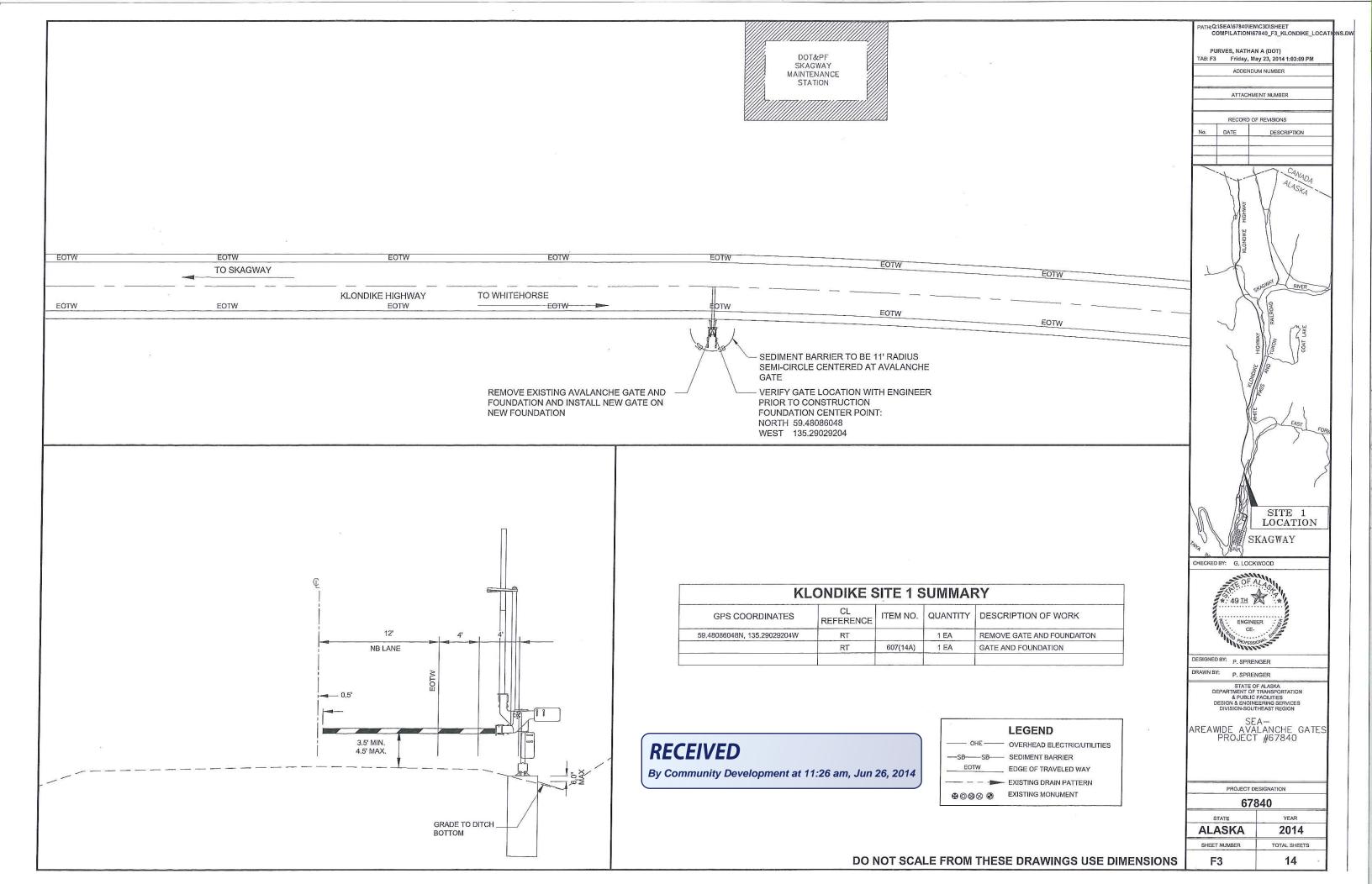
 TAB:
 E2
 Thursday, May 15, 2014 1:04:42 PM
 PURVES, NATHAN

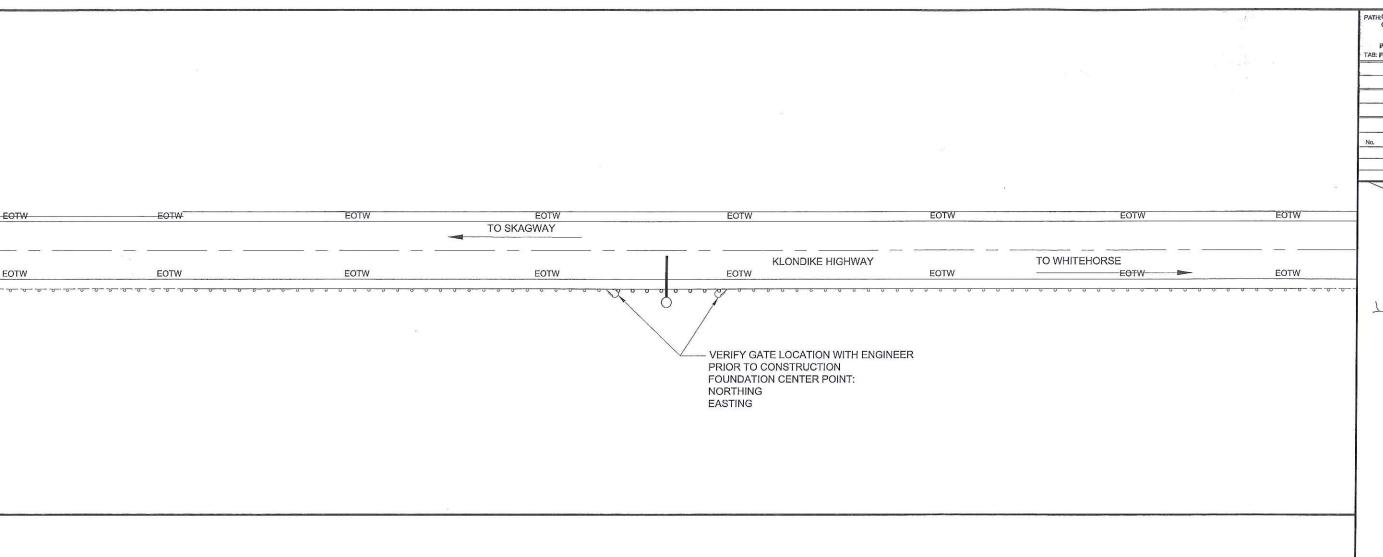
 NO.
 DATE
 DESCRIPTION
 PROJECT DESIGNATION

PROJECT DESIGNATION YEAR SHEET TOTAL NO. SHEETS 15









KLONDIKE SITE 2 SUMMARY						
GPS COORDINATES	CL REFERENCE	ITEM NO.	QUANTITY	DESCRIPTION OF WORK		
59.5445298N, 135.20704759W	RT		10 FT	REMOVE GATE AND FOUNDATION		
	RT		1 EA	REMOVE END ANCHOR		
	RT		1 EA	REMOVE END ANCHOR		
	RT	606(1)	50 FT	W-BEAM GUARDRAIL		

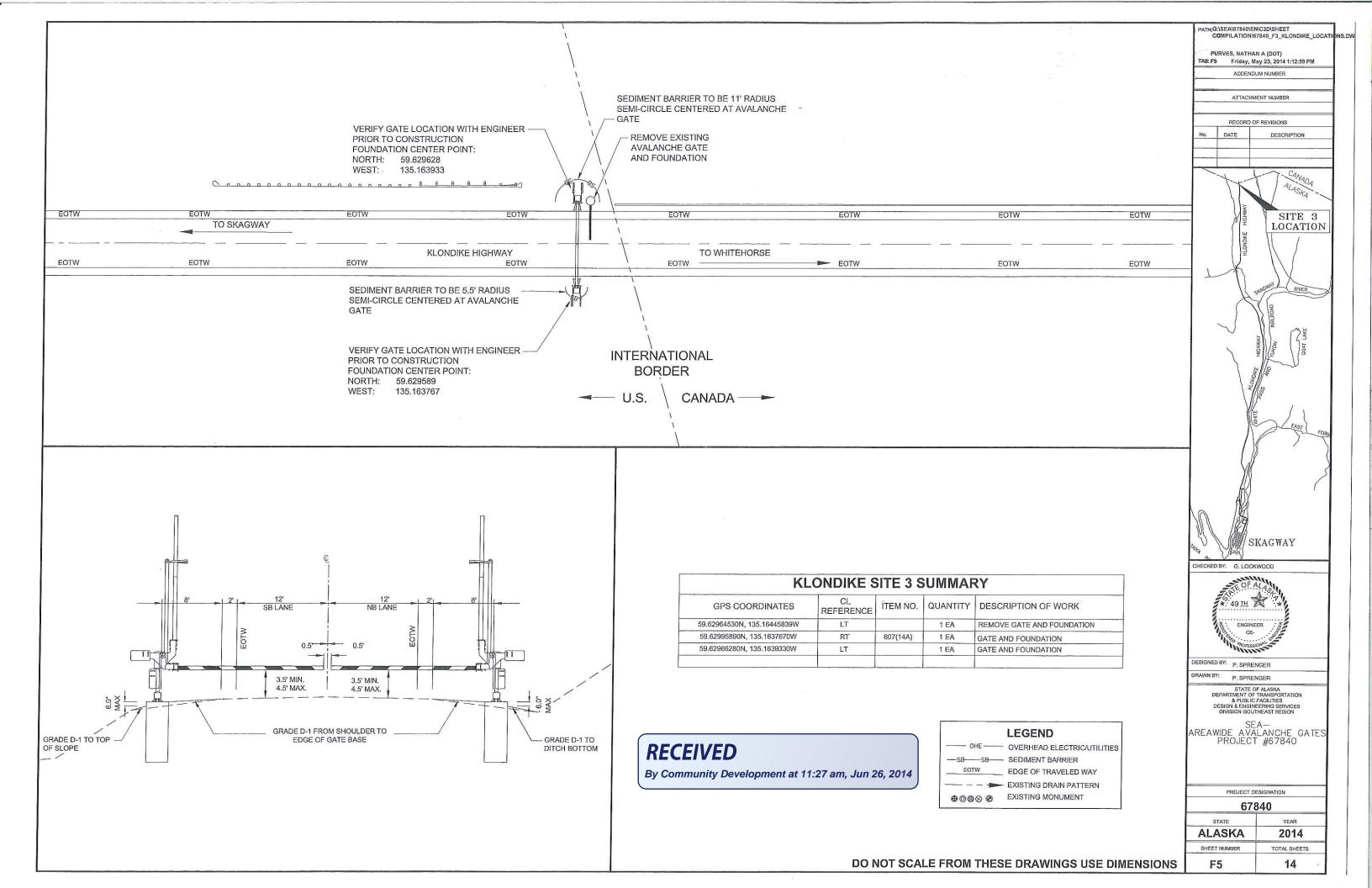
RECEIVED

By Community Development at 11:26 am, Jun 26, 2014



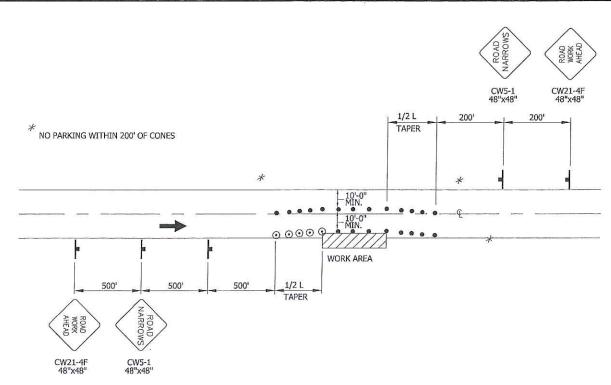
PATH:Q:\SEA\67840\EN\C3D\SHEET COMPILATION\67840_F3_KLONDIKE_LOCATI PURVES, NATHAN A (DOT)
TAB: F4 Friday, May 23, 2014 1:05:32 PM ADDENDUM NUMBER ATTACHMENT NUMBER RECORD OF REVISIONS SITE 2 LOCATION SKAGWAY CHECKED BY: G. LOCKWOOD DESIGNED BY: P. SPRENGER DRAWN BY: P. SPRENGER STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION SEA— AREAWIDE AVALANCHE GATES PROJECT #67840 PROJECT DESIGNATION 67840 STATE ALASKA 2014 SHEET NUMBER TOTAL SHEETS F4 14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



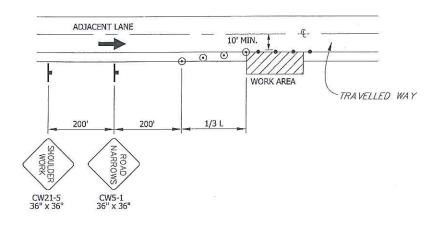
TRAFFIC CONTROL NOTES

- 1. A MINIMUM OF TWO LANES SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS, EXCEPT DURING FLAGGING OPERATIONS.
- 3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
- 4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- 6. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
- 7. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS LESS THAN 300' AND VISIBLE FROM THE FLAGGER STATION.
- 8. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
- 11. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS.

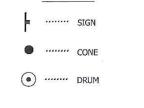


ROADWAY ENCROACHMENT

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



SHOULDER WORK



LEGEND

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS L= WxS2

45 MPH OR GREATER L= WxS

WHERE W= WIDTH OF OFFSET S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

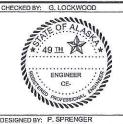
DRUM OR CONE SPACING = S (IN FEET)

-	LENICTLI
S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

RECEIVED

By Community Development at 11:27 am, Jun 26, 2014

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

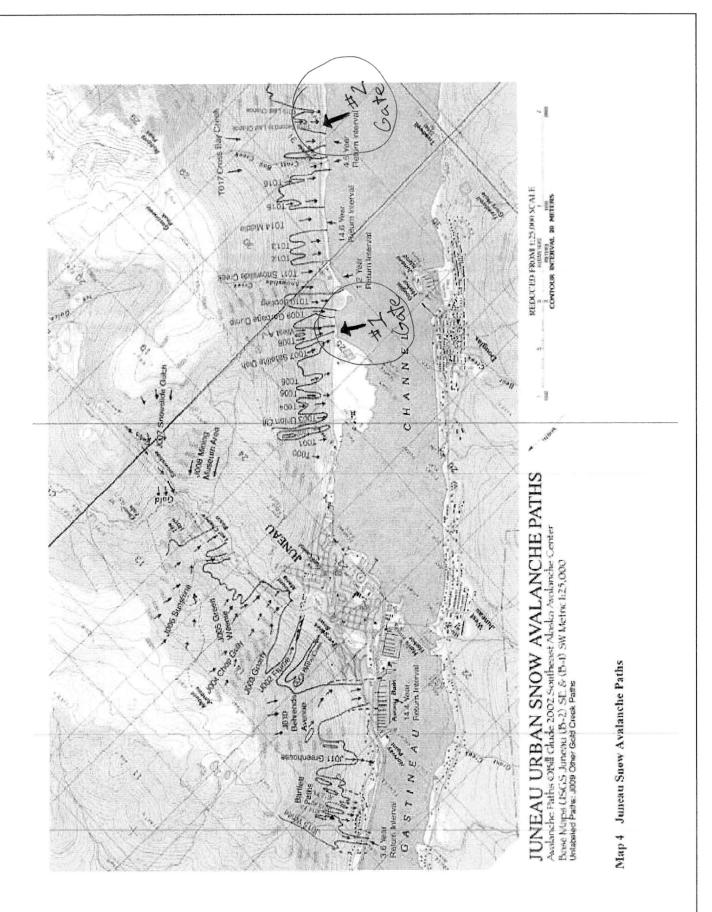
SEA-AREAWIDE AVALANCHE GATES PROJECT #67840

DESIGNED BY: P. SPRENGER DRAWN BY: P. SPRENGER

NO.

PATH: Q:\SEA\67840\EN\C3D\SHEET COMPILATION\140522 S1 TRAFFIC CONTROL SHEET,DWG Friday May 23 2014 11:57:25 AM PURVES NATHAN A (DOT)

2						
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET	TOTAL	
DATE	DESCRIPTION		N. Carlotte	NO.	SHEETS	
		67840	2014	S2	15	



PLANNING COMMISION Assembly Chambers Municipal Building 155 South Seward Street Juneau AK 99801

Re: State consistency permit for DOT/PF to install roadblock gates along Thane Road for increased avalanche safety.

As a current property owner and former resident of Thane Road I am against installing physical 'roadblock' gates along Thane Road for increased avalanche safety. Corralling Thane residents like cattle by installing physical gates to bar access to Thane Road is not an appropriate response to creating <u>'increased avalanche safety'</u> along Thane Road. Maybe symbolic, but a physical gate that locks-up an entire neighborhood seems inappropriate and heavy handed.

Instead, DOT/PF could install a post on each side of Thane Road with flashing warning lights: yellow for high avalanche danger & red for closure (similar to a railroad crossing without the gate). This seems a much more appropriate action/response to increasing visibility of avalanche danger or road closure without locking-up an entire neighborhood.

Johnn R Kelly 5795, 5805 Thane Road Juneau AK 99801 (707) 987-8577

Attachment C