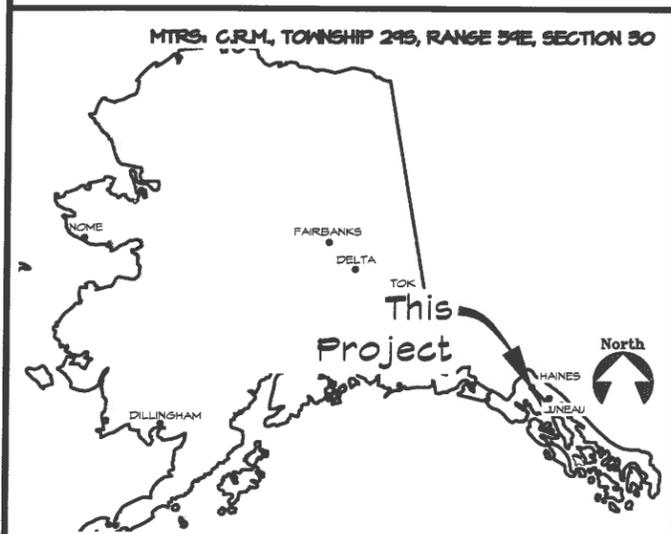


STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF PARKS  
AND  
OUTDOOR RECREATION

CHILKOOT LAKE SRS  
ENTRANCE UPGRADES

PROJECT NO.  
72031-1

Vicinity Map



INDEX

1. TITLE SHEET
2. TOPOGRAPHY
3. TOPOGRAPHY
4. VICINITY MAP
5. SITE PLAN
6. SINGLE GATE DETAILS
7. SINGLE GATE DETAILS (CONT.)

The following Division of Parks & Outdoor Rec. standard drawings apply to this project: NONE  
The following D.O.T.(Highways) standard drawings apply to this project: S-01.00, S-03.01, S-30.03

STATE OF ALASKA  
Department of Natural Resources  
Division of Parks & Outdoor Recreation

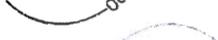
Recommended:

  
Rys Miranda, P.E. FOR 8/4/2014  
Chief, Design and Construction Date

Approved:

  
Ben Ellis 8/4/2014  
Director, Alaska State Parks Date

**LEGEND**

-  SURVEY MONUMENT
-  SURVEY POINT NUMBER
-  SIGN - SINGLE POST
-  CONIFEROUS TREE
-  BUILDING OUTLINE
-  MAJOR CONTOUR
-  MINOR CONTOUR
-  EDGE OF TREES
-  TRAIL - CENTERLINE
-  EDGE OF ROAD - ASPHALT
-  EDGE OF GRAVEL
-  EDGE OF WATER
-  PROPERTY LINE
-  ROAD EASEMENT

**SURVEY CONTROL NOTES**

**HORIZONTAL CONTROL**

Coordinates are NAD83(2011)(Epoch 2010.0000) Alaska State Plane (ASPC), Zone 1, in U.S. Feet. The basis of coordinates is monument "CRC-1", an Aluminum Pipe Monument having an NGS OPUS derived value of N2,743,119.60 and E2,332,475.76.

NGS OPUS Coordinates are based on a fully constrained static GPS network holding the NAD83 (2011) (Epoch 2010.0000) values for NGS CORS Stations "WHITEHORSE CORS ARP" (PID DE6615); "JUNEAU WAAS 1 CORS ARP" (PID DF4367); "GUSTAVUS 6 CORS ARP" (PID DK6231).

The Basis of Bearings is a local plane bearing between GPS Point "CRC-1" and GPS Point "CRC-3". GPS Point "CRC-3" bears S 17°36'46.1" W a distance of 1518.0296 feet from GPS Point "CRC-1". GPS Point "CRC-3" has NAD83(2011)(Epoch 2010.0000) ASPZ-1 coordinates of 2741672.728 N, 2332016.434 E, U.S. Survey Feet.

**SCALE FACTOR**

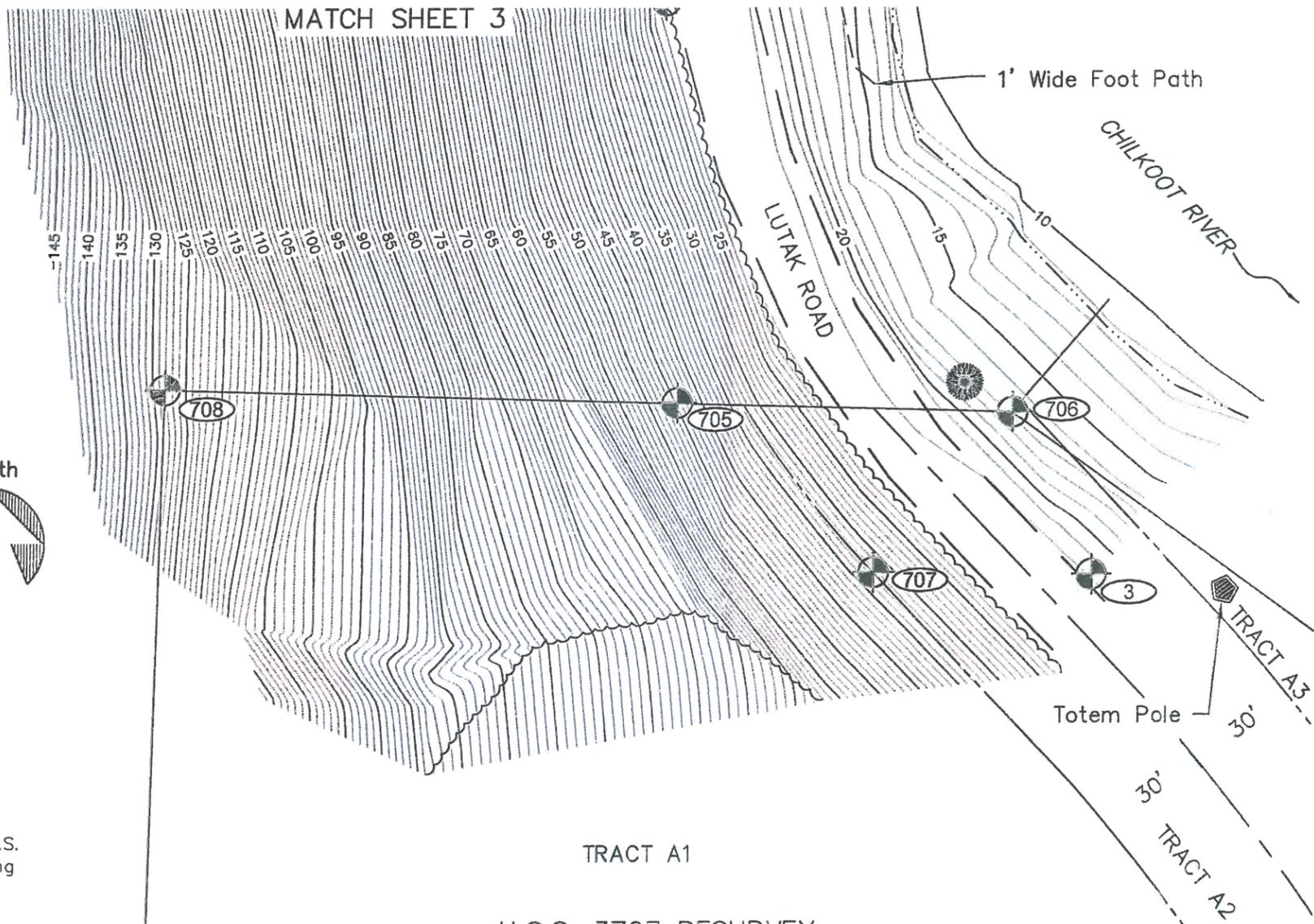
The Project Combined Scale Factor is 0.99995872 as computed by the NGS OPUS Solution. To convert ground distances to ASP grid distances, multiply by a combined scale factor of 0.99995872. To convert ASP grid distances to ground distances, multiply by a combined scale factor of 100000000/99995872.

**VERTICAL CONTROL**

The NAVD88 Orthometric Height was determined by GPS Observations using the Geoid 09 model. The basis of elevations is "CRC-1", an Aluminum Pipe Monument, having an NAVD88 elevation of 22.03 U.S. Feet.

**UTILITY NOTE**

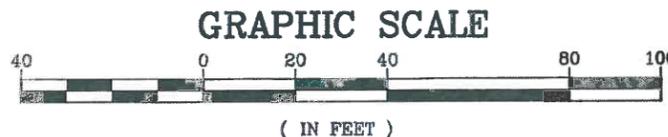
Underground utilities were not marked on the ground at the time of survey. Evidence of underground utilities are shown hereon based on above ground visible features typically associated with said utilities. The surveyor makes no guarantees regarding the existence, or non-existence, of underground utilities either in service or abandoned. Utility locates must be requested prior to any construction activities on this site.



U.S.S. 3707 RESURVEY

**SURVEY CONTROL POINTS**

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	2,741,672.73	2,332,016.43	21.54	ALMON.CRC-3
705	2,741,718.73	2,331,904.06	39.61	ALMON
706	2,741,716.14	2,331,994.94	17.00	ALMON
707	2,741,673.36	2,331,957.68	29.79	ALMON
708	2,741,722.48	2,331,765.71	127.15	BRASS CAP



STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES  
HAINES, ALASKA  
CHILKOOT RIVER COORIDOR  
PROJECT No. 72031-1

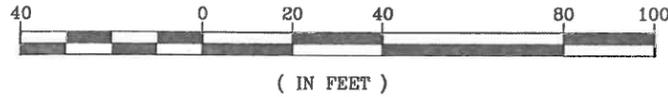


PREPARED: DOWLHKM  
DRAWN: JPB  
REVIEWED: SEP  
DATE: 08/08/13

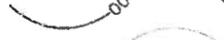
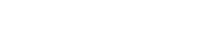
SHEET  
**2**  
OF 08 SHEETS



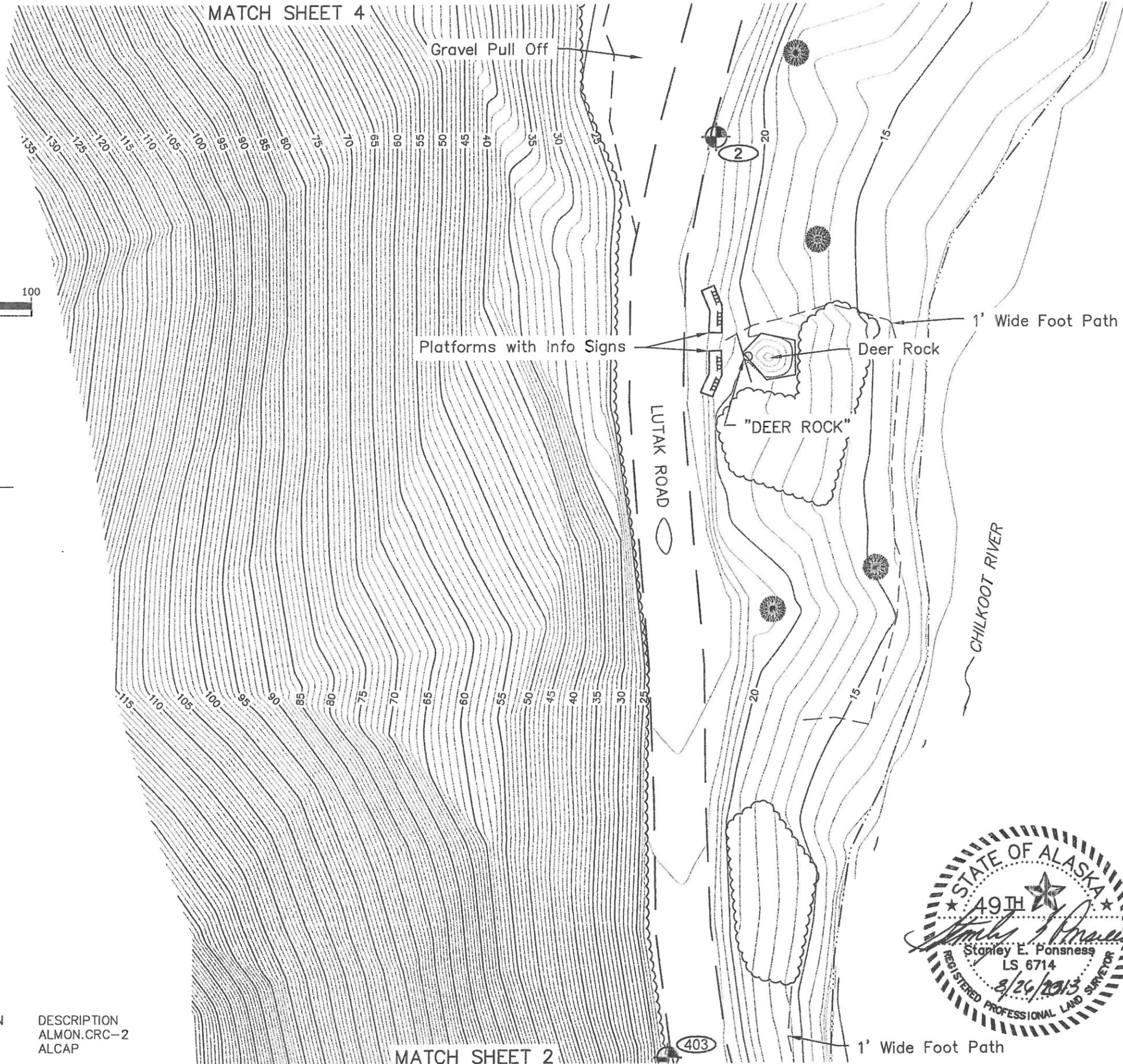
GRAPHIC SCALE



LEGEND

-  SURVEY MONUMENT
-  SURVEY POINT NUMBER
-  SIGN - SINGLE POST
-  CONIFEROUS TREE
-  BUILDING OUTLINE
-  MAJOR CONTOUR
-  MINOR CONTOUR
-  EDGE OF TREES
-  TRAIL - CENTERLINE
-  EDGE OF ROAD - ASPHALT
-  EDGE OF GRAVEL
-  EDGE OF WATER
-  PROPERTY LINE
-  ROAD EASEMENT

SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	2,742,174.36	2,331,916.68	23.87	ALMON.CRC-2
403	2,741,826.62	2,331,899.97	22.18	ALCAP

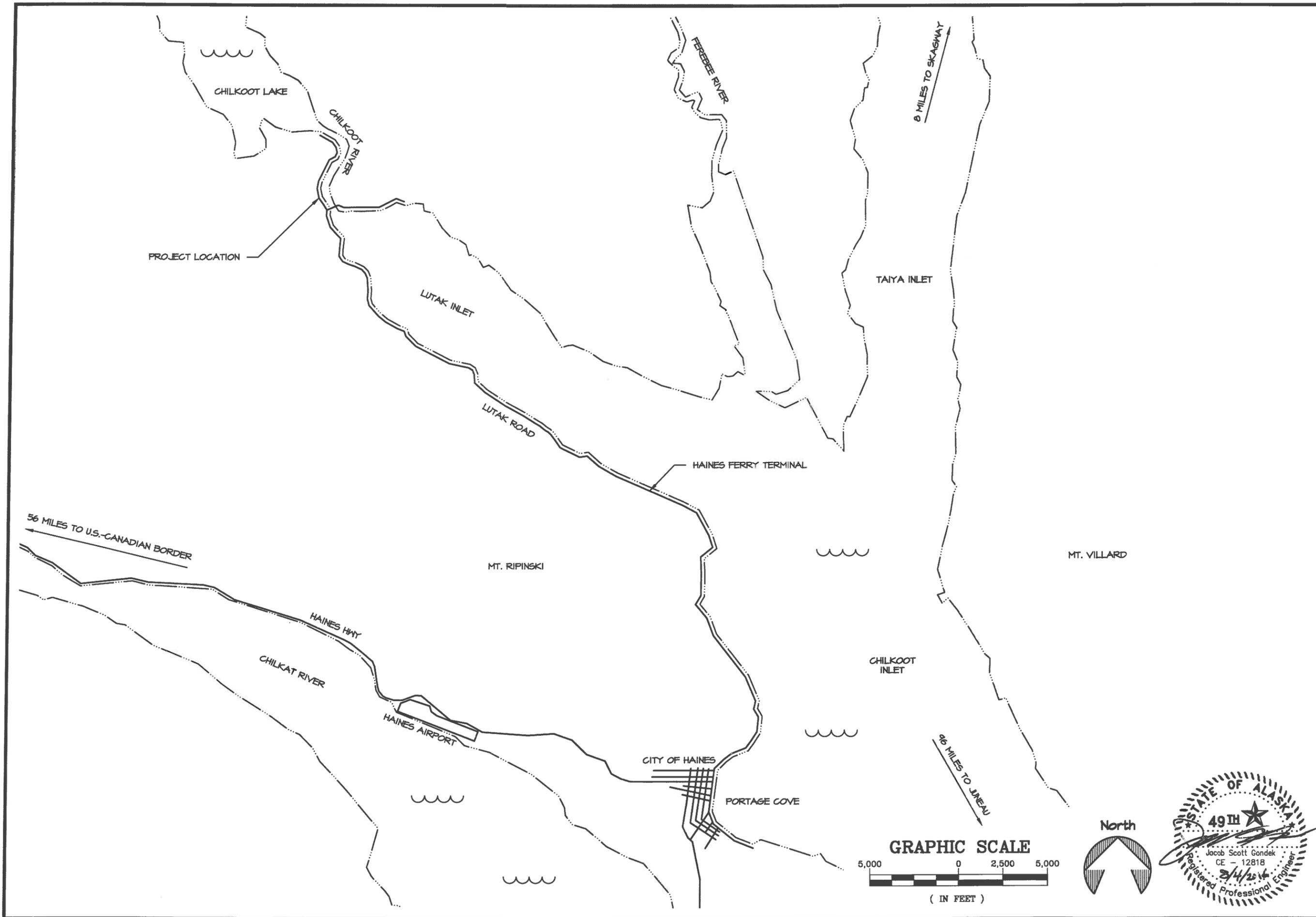


STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES  
 HAINES, ALASKA  
 CHILKOOT RIVER CORRIDOR  
 PROJECT No. 72031-1



PREPARED: DOWLHKM  
 DRAWN: JPB  
 REVIEWED: SEP  
 DATE: 08/08/13

SHEET  
 3  
 OF 08 SHEETS



STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES

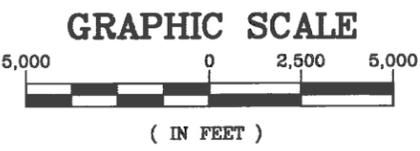
CHILKOOT LAKE SRS  
ENTRANCE UPGRADE  
PROJECT No. 72031-1

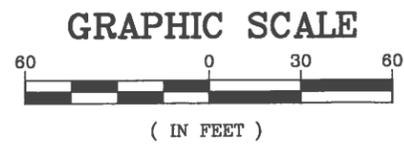
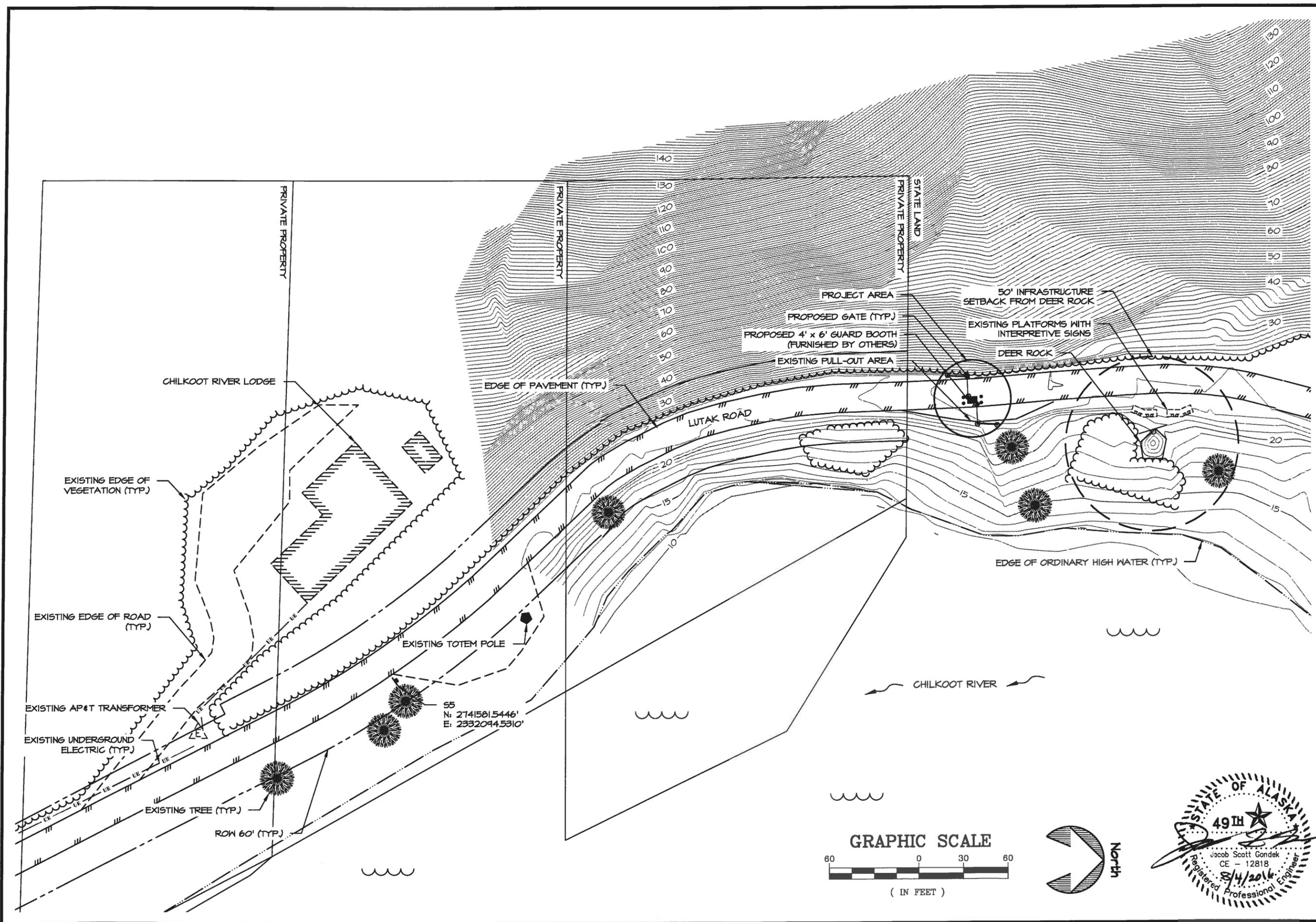
VICINITY MAP



PREPARED: KML  
DRAWN: KML  
REVIEWED: JSG  
DATE: 08/03/2016

SHEET  
4  
OF 6 SHEETS





STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES  
CHILKOOT LAKE SRS  
ENTRANCE UPGRADE  
PROJECT No. 72081-1



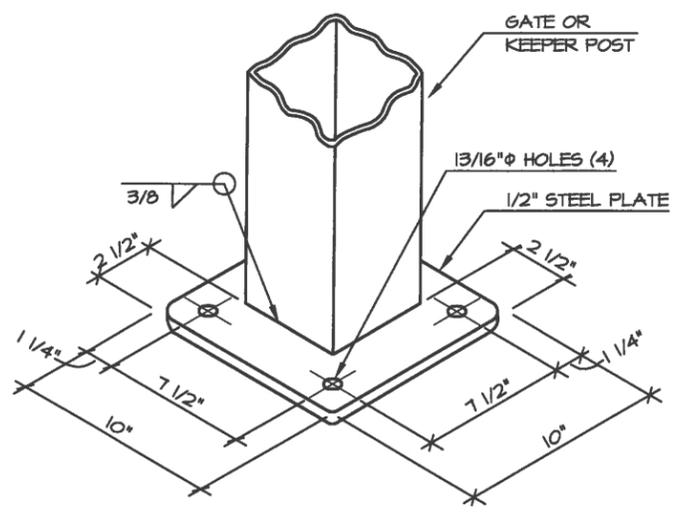
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DRAWN: KML  
REVIEWED: JSG  
DATE: 08/03/2016

SHEET  
5  
OF 7 SHEETS



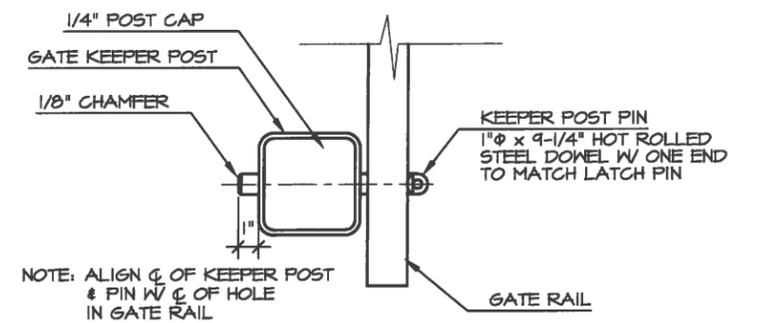
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REVIEWED: JSG  
DATE: 08/03/2016

SHEET  
6  
OF 7 SHEETS

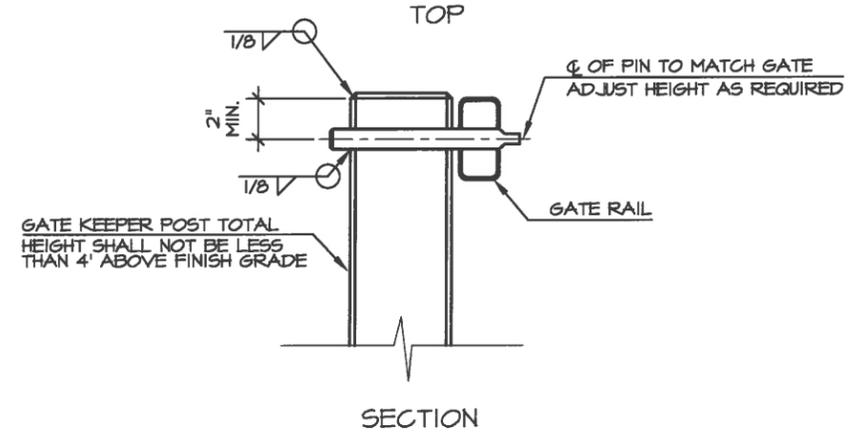


NOTE: FASTEN PLATES WITH 4 - 3/4" x 2" STEEL BOLTS WITH FLAT WASHERS, LOCK WASHERS, AND NUTS

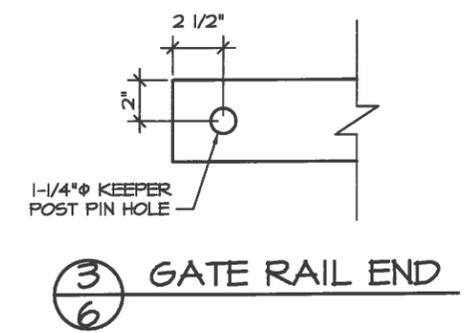
1 STEEL PLATE (TYP.)  
6



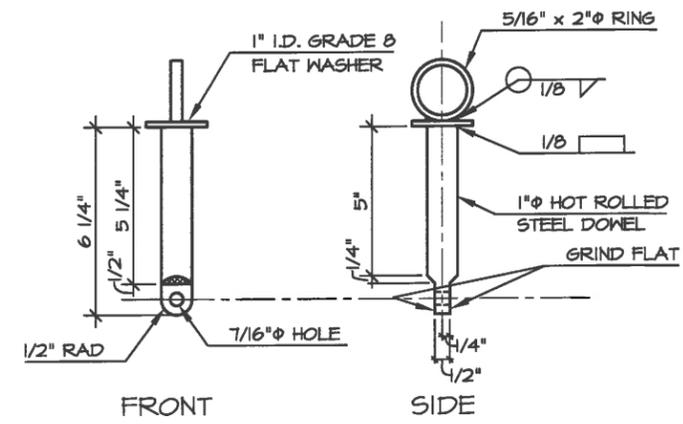
NOTE: ALIGN C OF KEEPER POST & PIN W/ C OF HOLE IN GATE RAIL



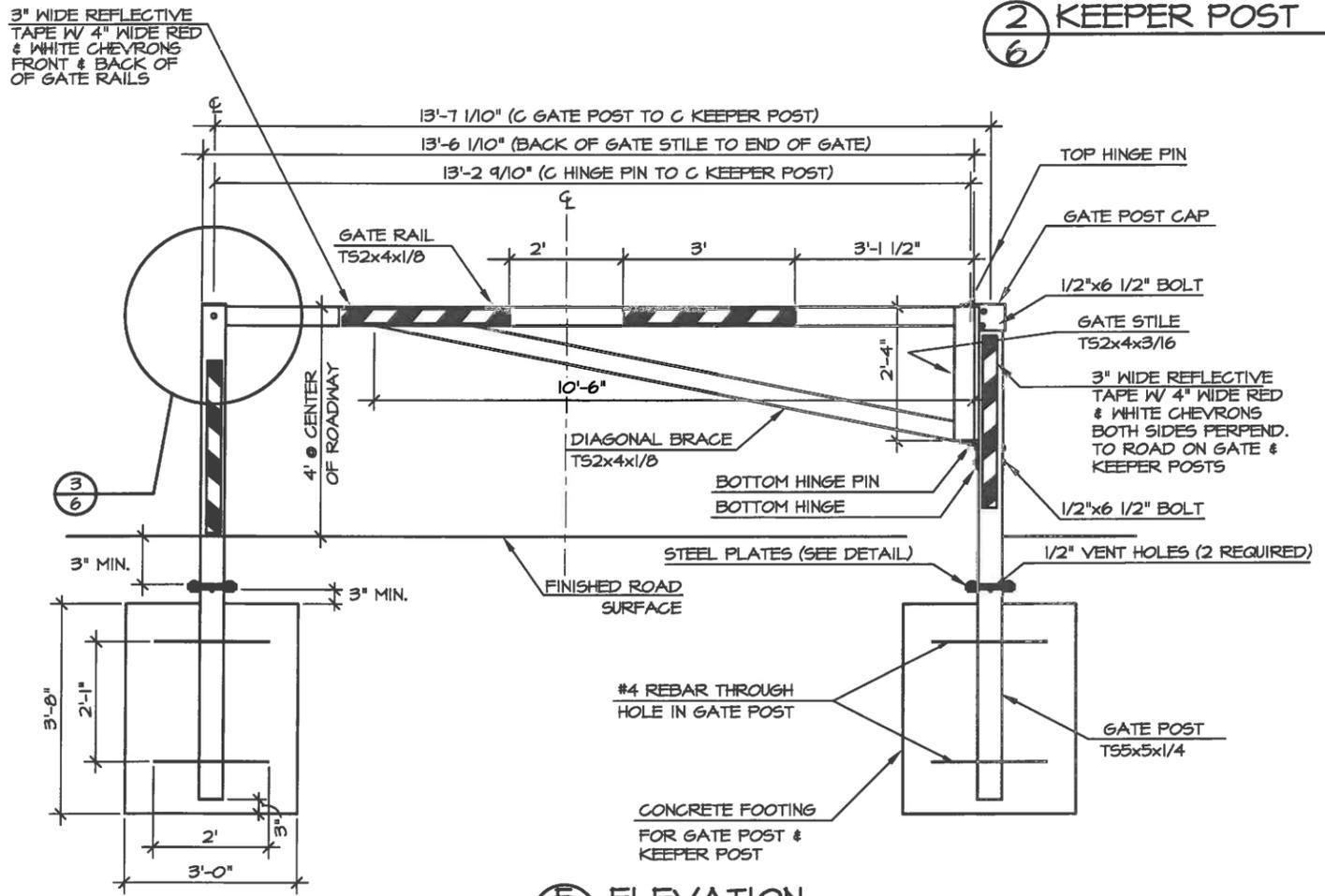
2 KEEPER POST  
6



3 GATE RAIL END  
6



4 LATCH PIN DETAIL  
6



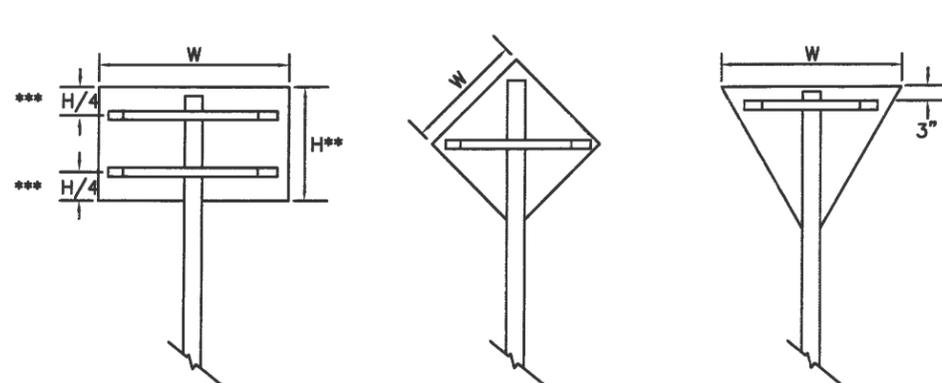
5 ELEVATION  
6

300(I) STANDARD SIGN SUMMARY						
SIGN NO.	LOCATION	TYPE	LEGEND	SIGN (INXIN)	AREA (S.F.)	THICKNESS (IN)
S1	SOUTH GATE	R11-2	ROAD CLOSED	48x30	10	0.125
S2	NORTH GATE	R11-2		48x30	10	0.125
S3	SEE SHEET 7	OMI-2	Diamond symbol	18x18	2.25	0.125
S4	SEE SHEET 7	OMI-2		18x18	2.25	0.125
S5*	SEE SHEET 5	CS (HINGED)	ROAD CLOSED AHEAD	30x30	6.25	0.125
TOTAL (S.F.)					30.75	

- NOTES:
- PLACE AND SECURELY FASTEN R11-2 SIGNS TO CENTER OF GATES.
  - PLACE AND FASTEN OMI-2 SIGN TO 2.5x2.5 PERFORATED STEEL TUBE POST IN CONCRETE FOUNDATION IN ACCORDANCE WITH DOT STANDARD DRAWINGS S-01.00, S-30.03, S-05.01.
  - CUSTOM SIGN (CS) SIMILAR TO W14-103 - ADD HINGE AT CENTER.

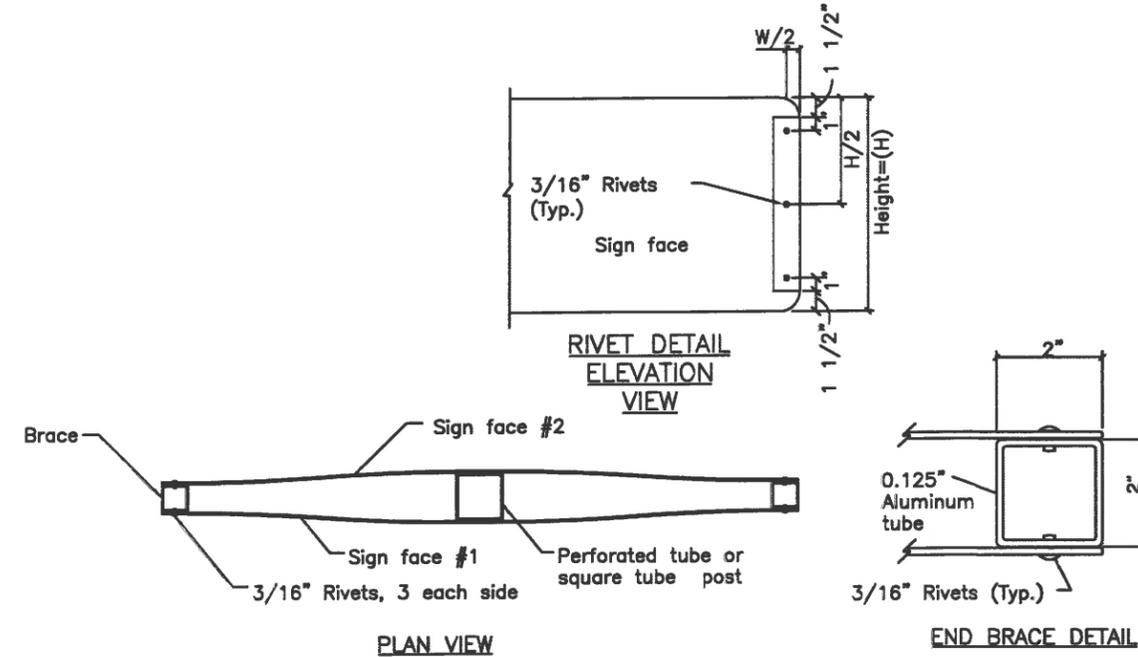




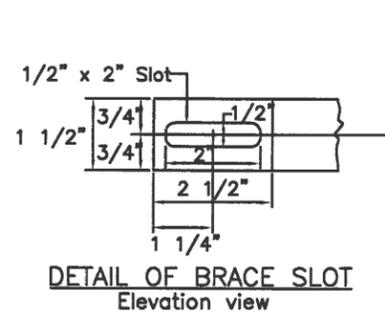


\*\*\* Use one brace when  $H \leq 18"$   
 Use two braces when  $18" < H < 48"$   
 Use three braces when  $H \geq 48"$   
 \*\* Position of brace may be varied to match  
 Pre drilled mounting holes in panel

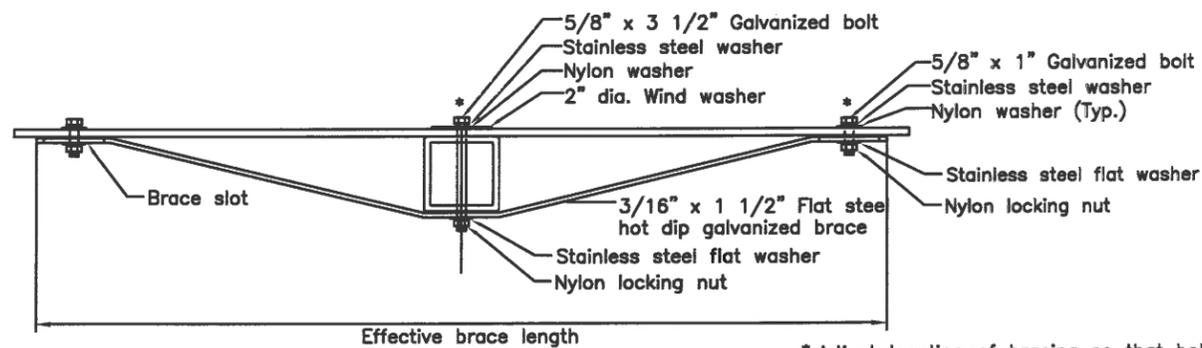
SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



DETAIL OF BRACE SLOT  
Elevation view



\* Adjust location of bracing so that bolts and washers will miss the sign legend

TUBE POST SIGN BRACING  
Plan view

SIGN WIDTH(W)	EFFECTIVE BRACE LENGTH		
	WARNING	YIELD	OTHER
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	-	36"
48"	TWO POSTS	36"	42"

< 30" No bracing required and use square tube

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska  
 Department of Transportation  
 & Public Facilities  
**BRACING FOR SIGNS  
 MOUNTED ON SINGLE POST**



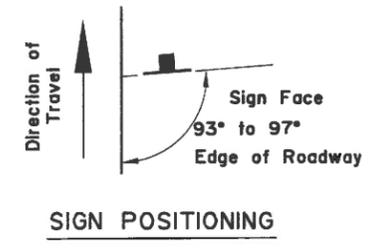
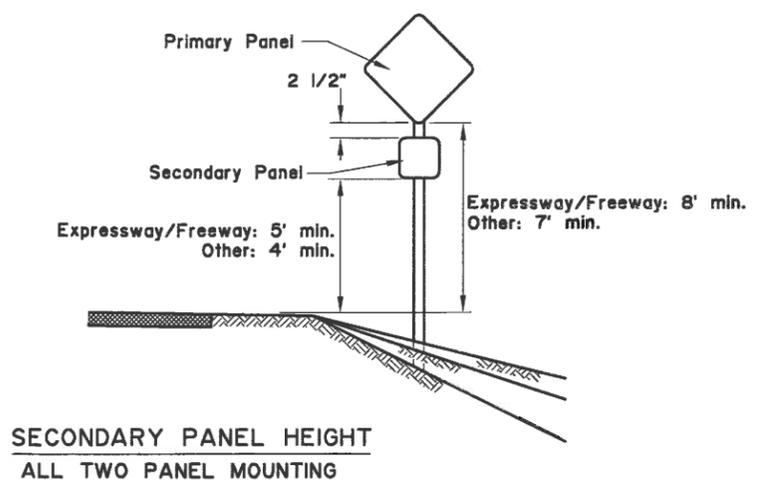
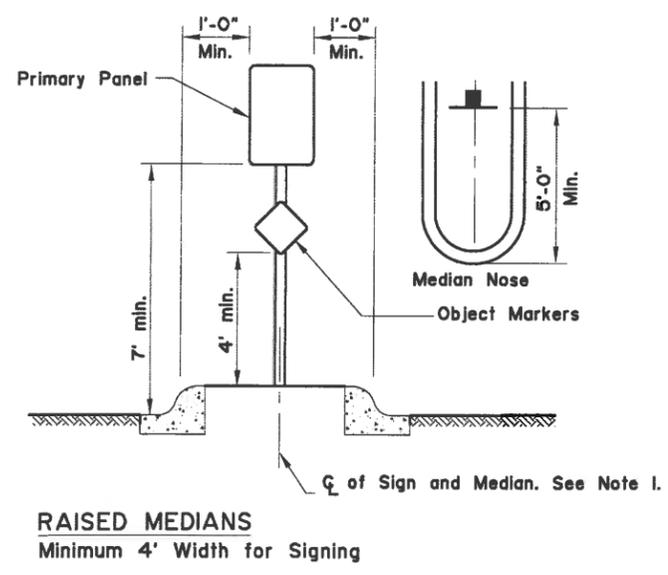
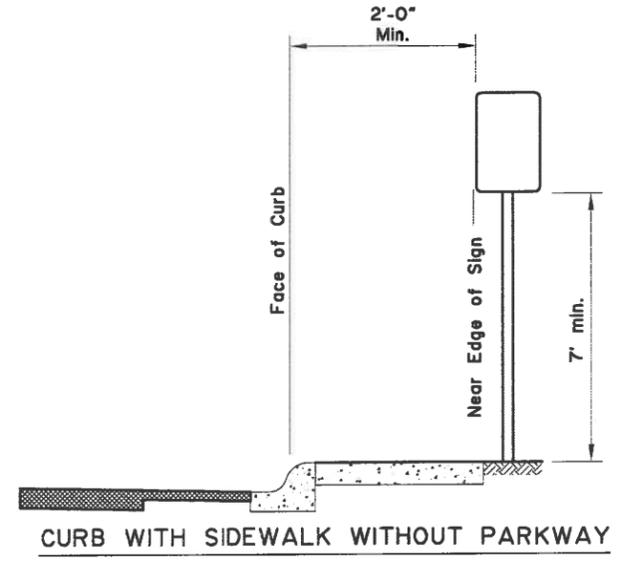
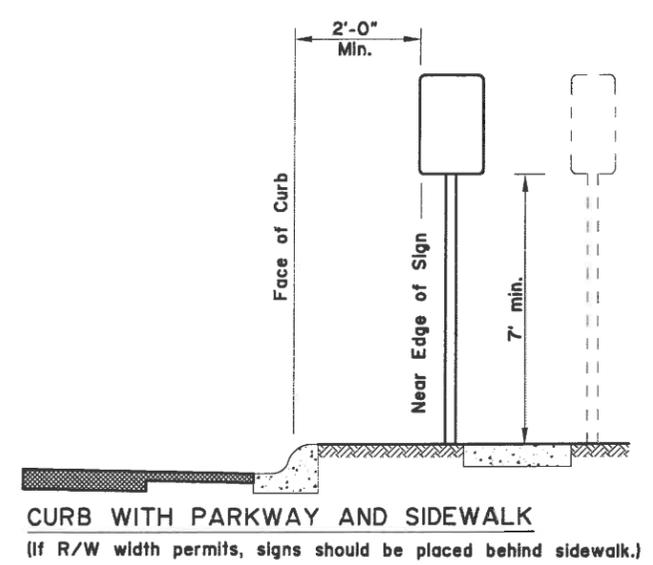
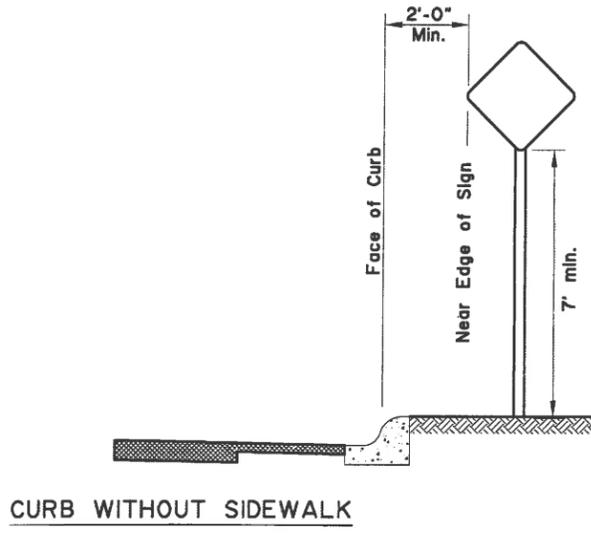
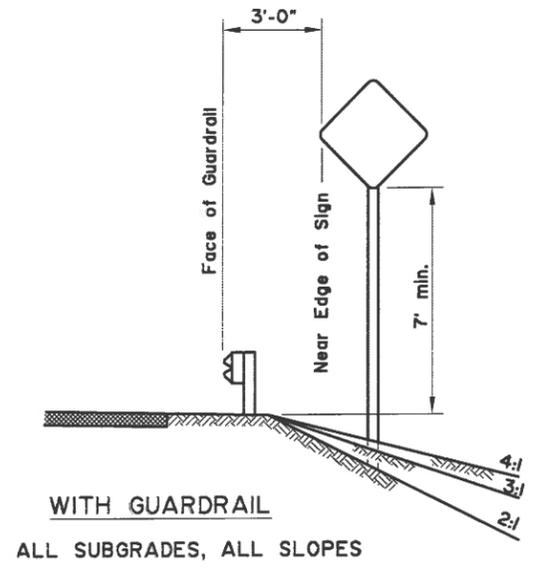
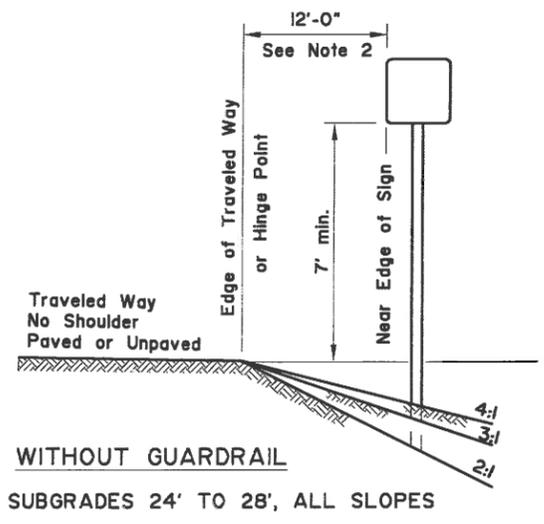
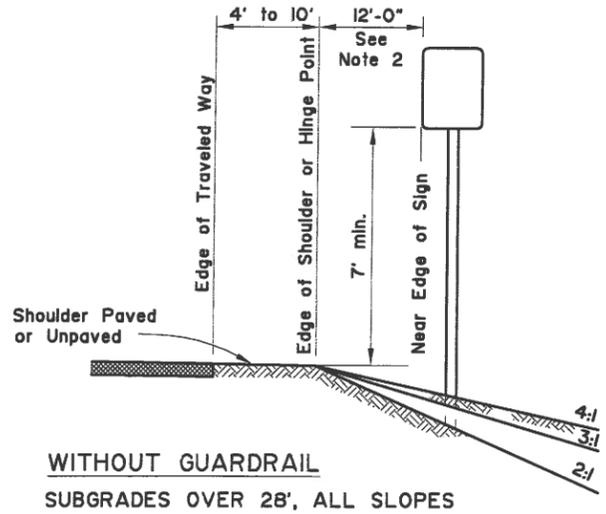
APPROVED



Date 2/28/03

## GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6'.
2. If signs extend over sidewalks, the minimum vertical clearance is 7'-0".
3. Add 6" to mounting height on unpaved roads.
4. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
5. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
6. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.



REVISIONS		
Date	Description	By
4/3/01	Revised Sign Heights	KJS

Sheet 1 of 1

State of Alaska  
Department of Transportation  
& Public Facilities

**POST MOUNTED SIGN  
OFFSET AND HEIGHT**

APPROVED

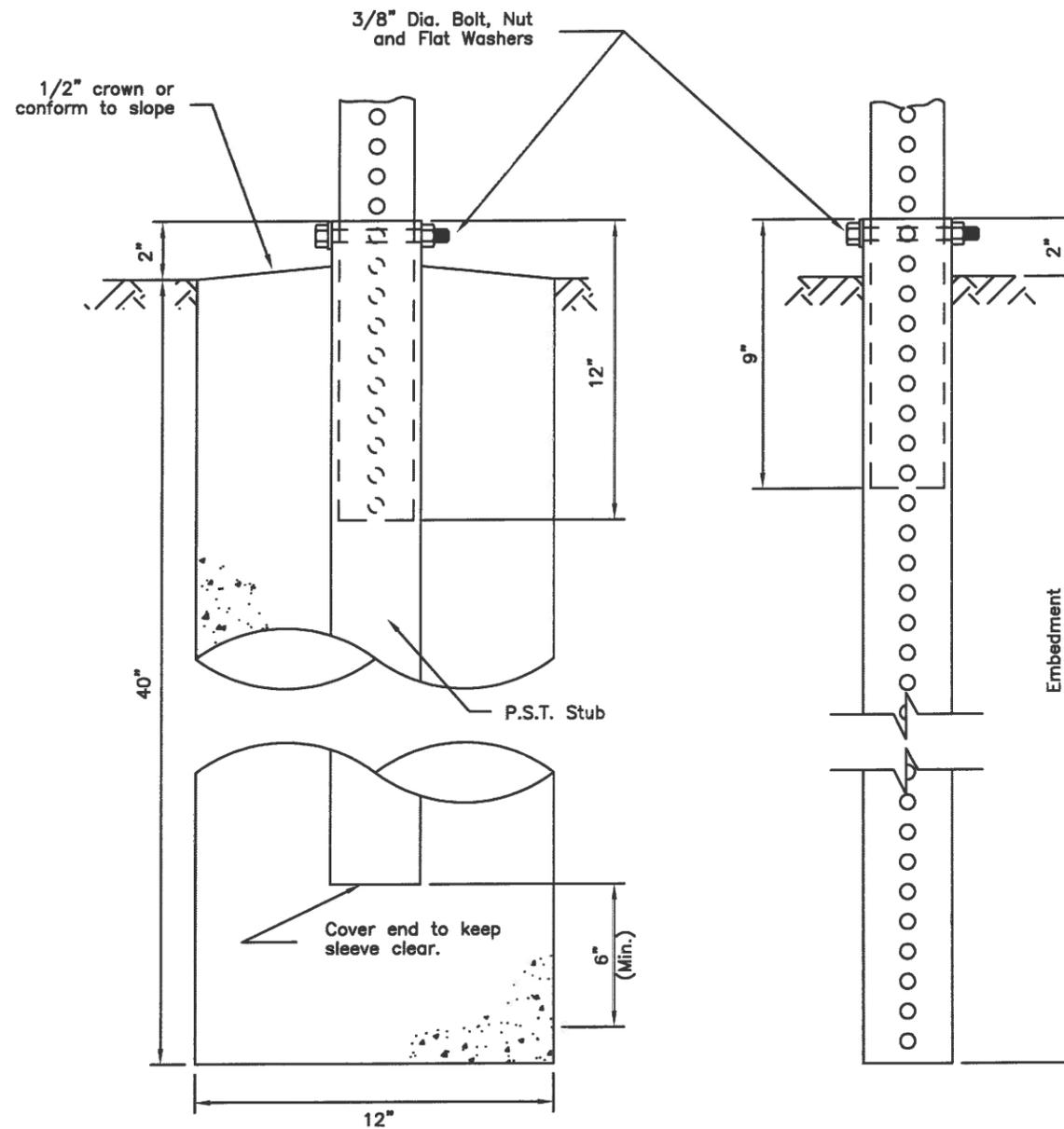
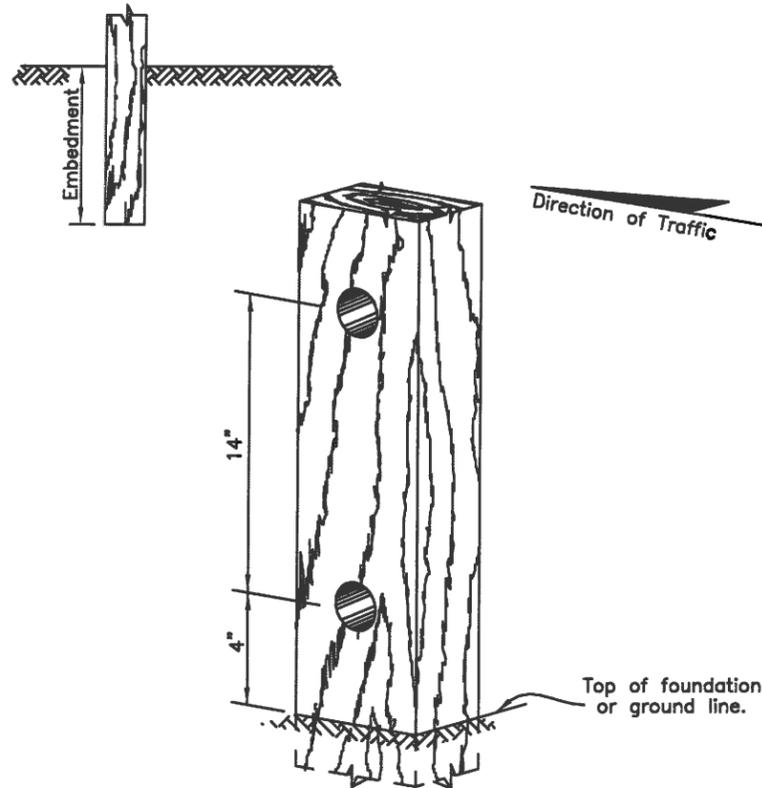
7/15/82

Date

# S-30.03

## GENERAL NOTES:

1. Refer to Standard Drawing "Sheet Aluminum Sign and Framing" for light sign details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Do not install wood posts larger than 6"x8".
5. Use larger posts than shown on this sheet, with hinges, for multiple support signs where the supports are separated by more than 7 feet.



Note: If holes are field drilled after post has been treated, the holes shall be thoroughly swabbed with a 5% solution of pentachlorophenol and mineral spirits.

WOOD POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NUMBER OF POSTS WITHIN 7 FL. PATH
4"x4"	NONE	36"	2
4"x6"	1 1/2"	36"	2
6"x6"	1 1/2"	40"	1
6"x8"	3"	48"	1

\* Embedment depth applies in both strong and weak soil.

### WOOD POSTS

### SLEEVE TYPE -CONCRETE FOUNDATION-

### SLEEVE TYPE -SOIL EMBEDMENT-\*

PERFORATED STEEL TUBES (P.S.T.) (12 ga. - .105" Wall Thickness)			
POST SIZE (inch)	Embedment Depth	No. of P.S.T.s permitted within 7 ft path	
1 1/2" x 1 1/2"	3'-0"	2	
1 3/4" x 1 3/4"	3'-0"	2	
2" x 2"	3'-6"	2	
2 1/4" x 2 1/4"	4'-0"	1	
2 1/2" x 2 1/2"	4'-6"	1	

\* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

### PERFORATED STEEL TUBE (PST) POSTS

REVISIONS		
Date	Description	By
1/1/85	Redraft-Delete Post	Gdo
4/2/01	Revised PST table	Kis
	Added note 3	
2/12/02	Revised Wood Posts	Kis

Sheet 1 of 1

State of Alaska  
Department of Transportation  
& Public Facilities

LIGHT SIGN  
STRUCTURE POST  
EMBEDMENT



Date 7/15/82

S-30.03