

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

KASILOF RIVER SRS
PARKING IMPROVEMENTS

PROJECT NO.
71882-2

In Cooperation with the National Park Service
Land and Water Conservation Fund Grant Program

Vicinity Map

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Plans developed by:

STATE OF ALASKA
Department of Natural Resources
Division of Parks & Outdoor Recreation
550 W 7th Ave. Suite 1340, Anchorage, AK 99501

Recommended:

Rys Miranda
Rys Miranda, P.E.
Chief, Design and Construction

4/30/2005
Date

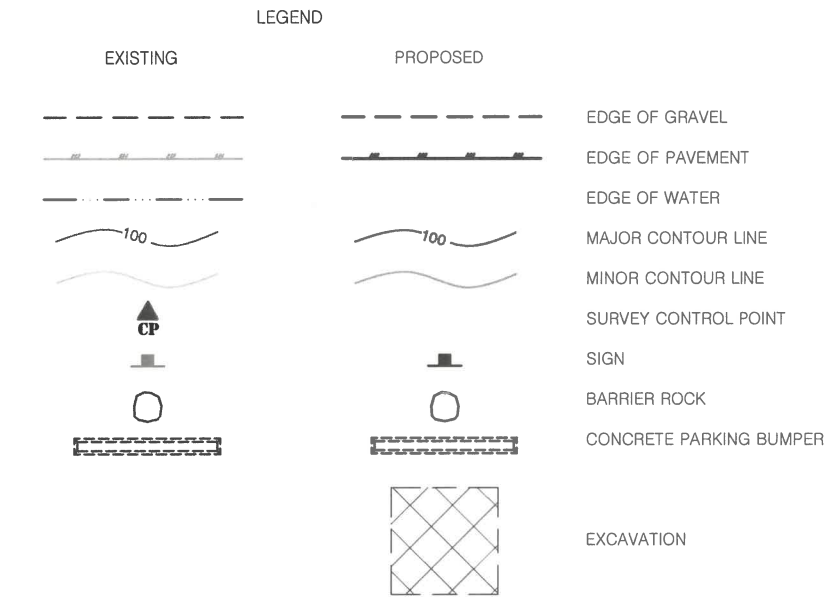
Approved:

Ricky Gease
Ricky Gease
Director, Alaska State Parks

4/30/2005
Date

The following Division of Parks & Outdoor Rec. standard drawings apply to this project: P-6

The following Department of Transportation and Public Facilities standard drawings apply to this project: I-30.10, S-00.12, S-01.02, S-05.02

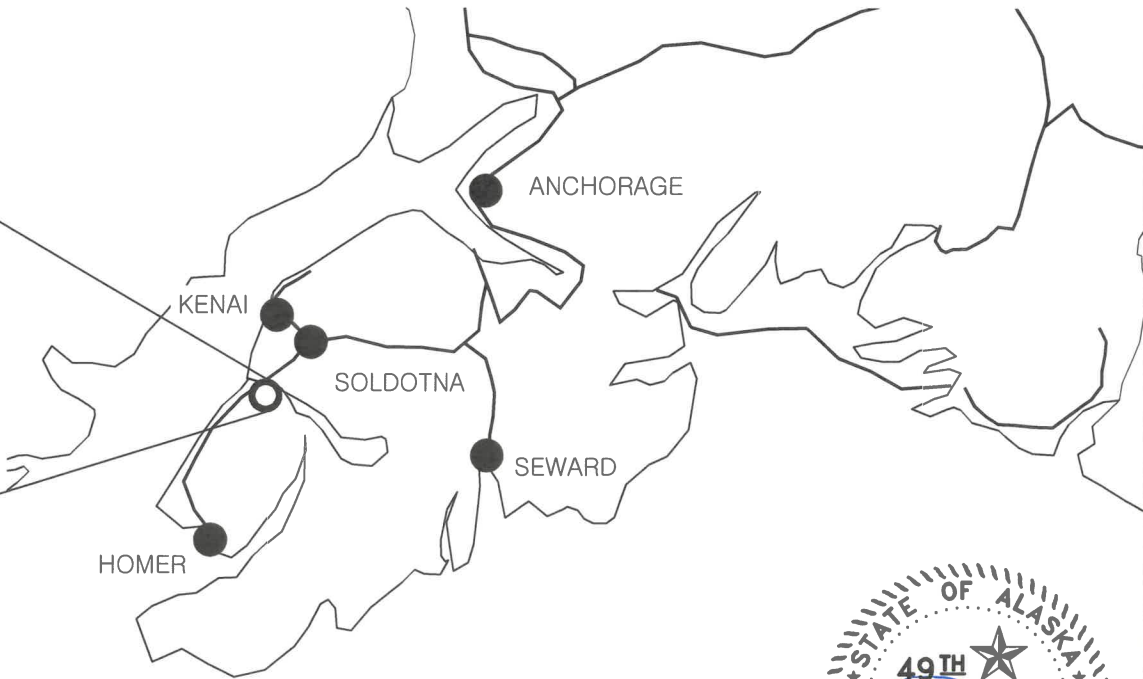
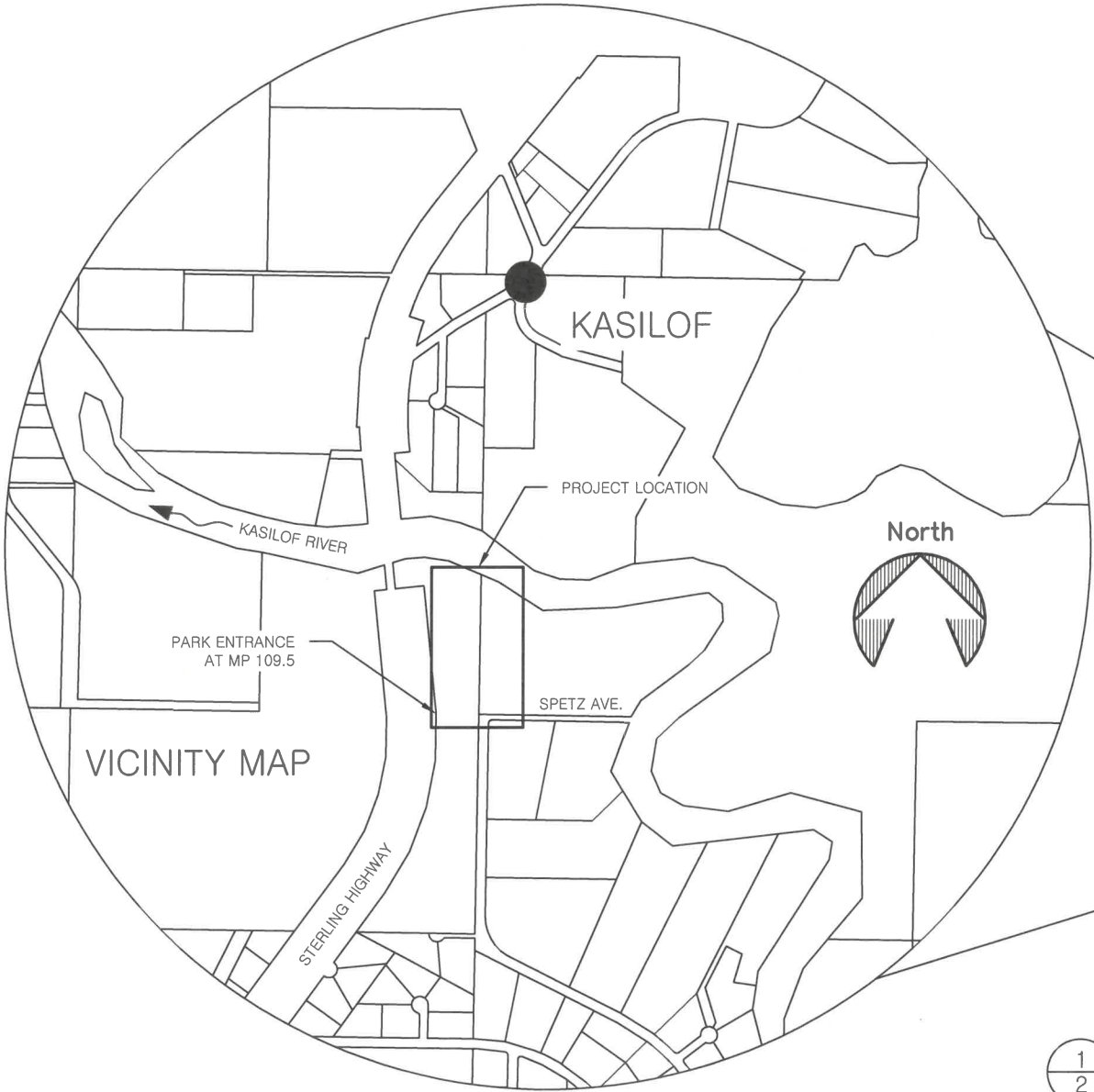


ABBREVIATIONS

APPRX.	CENTERLINE
C.S.	APPROXIMATE
C.F.	CONTINGENT SUM
C.Y.	CUBIC FOOT
ELEV.	CUBIC YARD
EOG	ELEVATION
EOP	EDGE OF GRAVEL
EOW	EDGE OF PAVEMENT
EST.	EDGE OF WATER
IN.	ESTIMATE
LB/LBS.	INCH
L.F.	POUND/POUNDS
L.S.	LINEAR FEET
M.E.	LUMP SUM
MAX.	MATCH EXISTING
MIN.	MAXIMUM
MP	MINIMUM
N/A	MILEPOST
NO.	NOT APPLICABLE
NTS	NUMBER
O.C.	NOT TO SCALE
QTY.	ON CENTER
PIP	QUANTITY
REQ'D	PROTECT IN PLACE
S.F.	REQUIRED
SRS	SQUARE FEET
STA	STATE RECREATION SITE
S.Y.	STATION
TYP	SQUARE YARD
	TYPICAL

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ALL REQ'D
203.0003.0000	UNCLASSIFIED EXCAVATION	C.Y.	320
203.0006.000A	BORROW, TYPE A	TON	340
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	1,930
401.0001.002B	HOT MIX ASPHALT, TYPE II, CLASS B	TON	950
615.0001.0000	STANDARD SIGN	S.F.	32
622.2010.0000	CONCRETE PARKING BUMPER	EACH	50
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	C.S.	ALL REQ'D
641.0006.0000	WITHHOLDING	C.S.	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOURL	5
643.0002.0000	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D
647.0001.0000	HYDRAULIC EXCAVATOR, 1 C.Y., 100 HP MINIMUM	HOURL	5
670.0001.0000	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQ'D

ESTIMATING FACTORS	
ITEM DESCRIPTION	FACTOR
BORROW, TYPE A	142 LBS/C.F.
AGGREGATE BASE COURSE, GRADING D-1	146 LBS/C.F.
HOT MIX ASPHALT, TYPE II, CLASS B	151 LBS/C.F.



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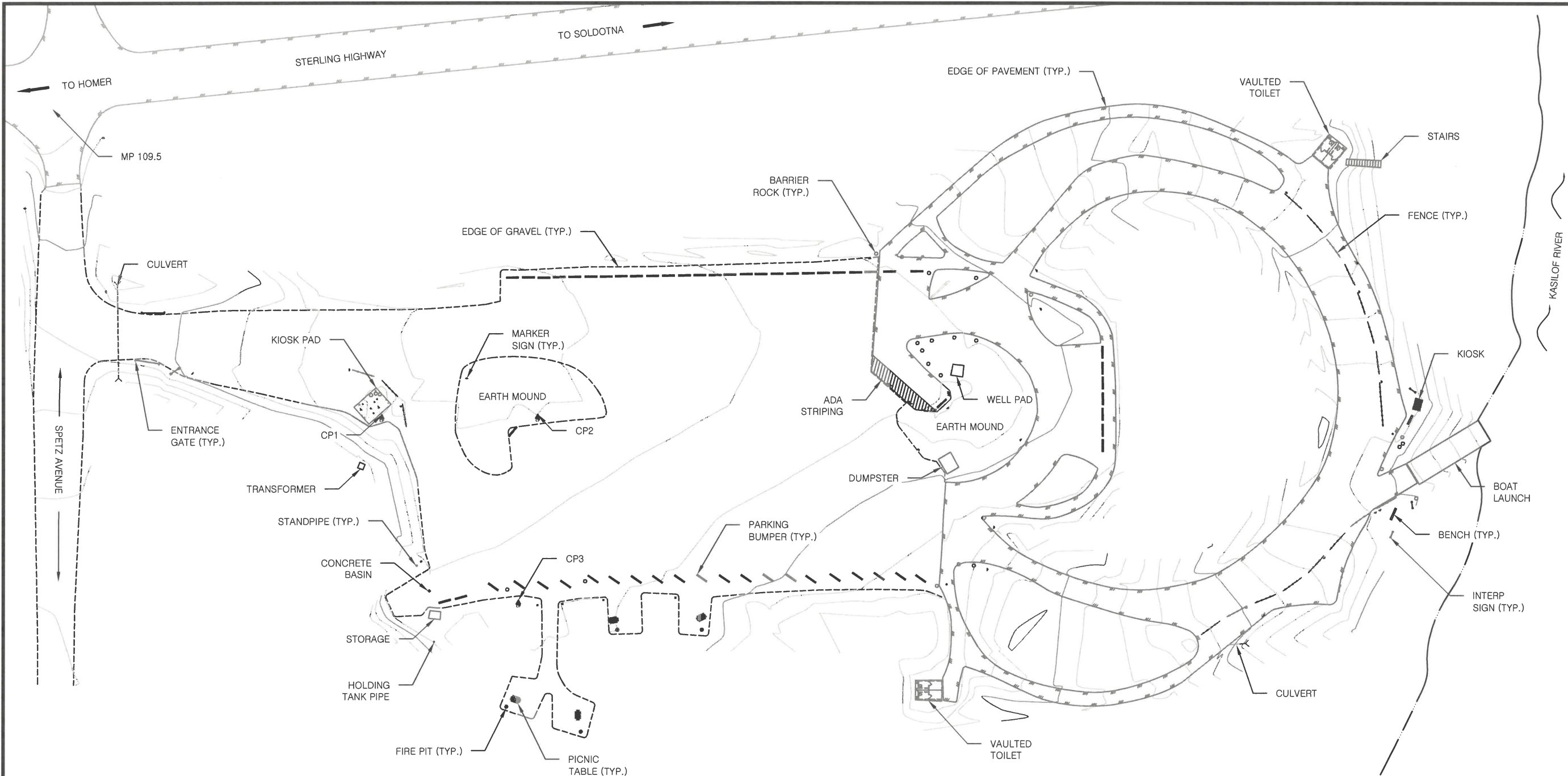
ESTIMATE OF QUANTITIES,
ABBREVIATIONS, LEGEND
& VICINITY MAP

KASILOF RIVER SRS
PARKING IMPROVEMENTS
PROJECT NO. 71882-2

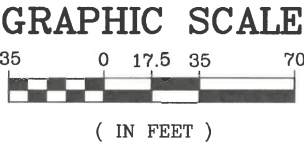


PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2025

SHEET
2
OF 12 SHEETS



SURVEY CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	2309205.41	1412233.79	96.55	3/4" REBAR W/ RED CAP
CP2	2309298.51	1412230.35	95.02	3/4" REBAR W/ YELLOW CAP
CP3	2309293.84	1412349.60	92.39	3/4" REBAR W/ YELLOW CAP



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PREPARED: FWS
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 DATE: APRIL 2025

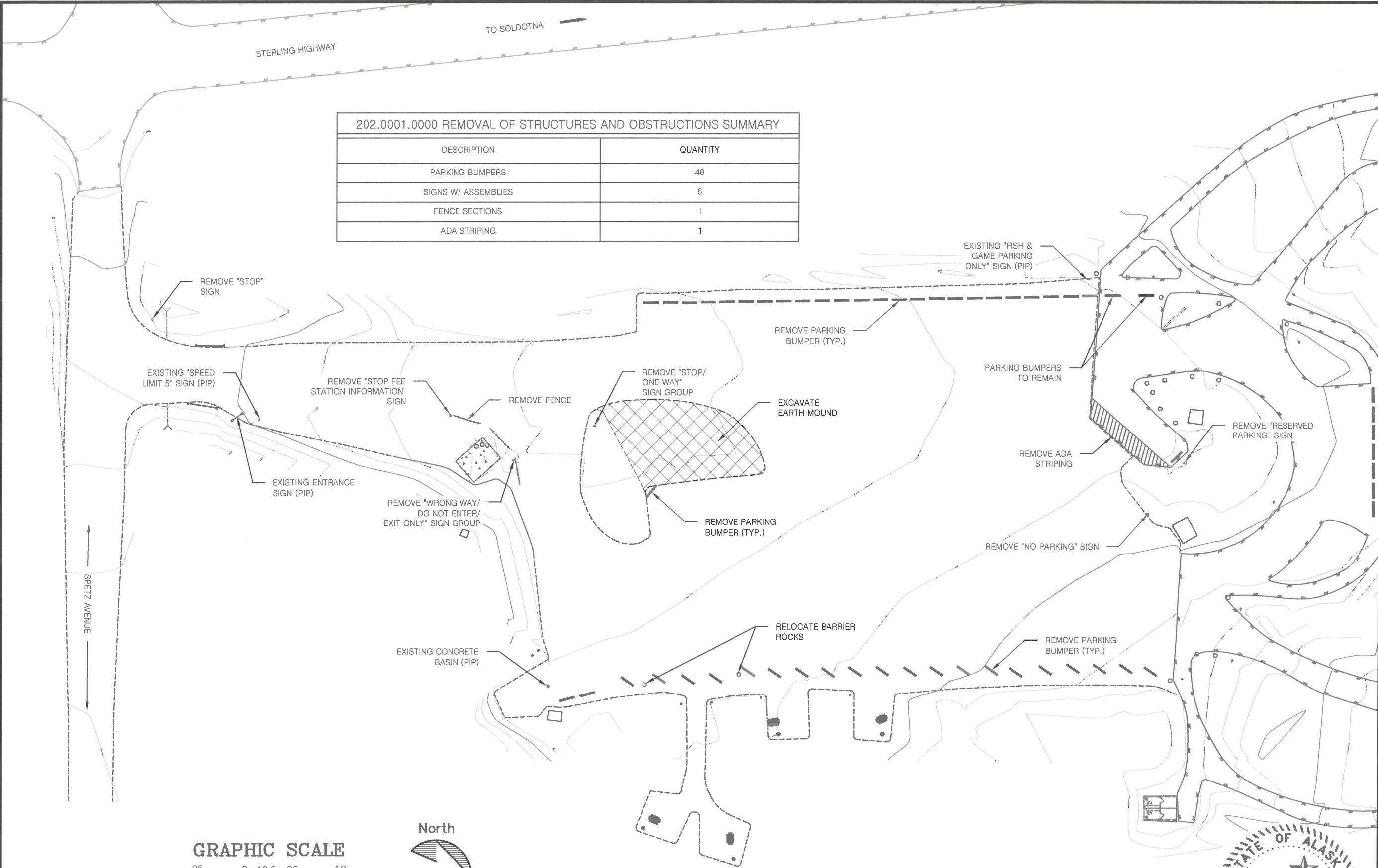
SHEET

3

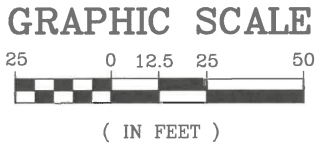
OF 12 SHEETS

KASLOF RIVER SRS
 PARKING IMPROVEMENTS
 PROJECT NO. 71882-2

EXISTING CONDITIONS



202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SUMMARY	
DESCRIPTION	QUANTITY
PARKING BUMPERS	48
SIGNS W/ ASSEMBLIES	6
FENCE SECTIONS	1
ADA STRIPING	1



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PROJECT NO. 71882-2

DEMOLITION PLAN

PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2025

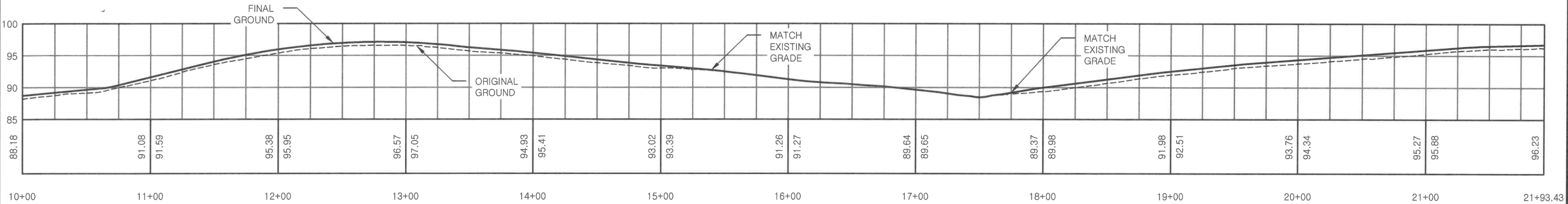
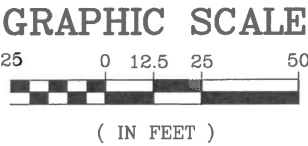
SHEET
4
OF 12 SHEETS

HORIZONTAL LINE DATA		
LINE #	LENGTH	DIRECTION
L1	371.74'	S89° 10' 20.61"E
L2	574.34'	N1° 06' 58.25"W
L3	282.41'	S0° 00' 00.00"E
L4	53.34'	N90° 00' 00.00"W

HORIZONTAL CURVE DATA					
CURVE #	PC STA	PT STA	RADIUS	LENGTH	DELTA
C1	15+74.34	16+43.45	67.78'	69.11'	58.4231°
C2	16+43.45	17+12.33	54.40'	68.88'	72.5514°
C3	17+12.33	17+66.92	62.68'	54.59'	49.9007°
C4	20+49.33	21+40.09	57.78'	90.76'	90.0000°



NORTHING: 2308992.62
EASTING: 1412179.30



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PARKING IMPROVEMENTS
PROJECT NO. 71882-2

PARKING ROAD PLAN & PROFILE

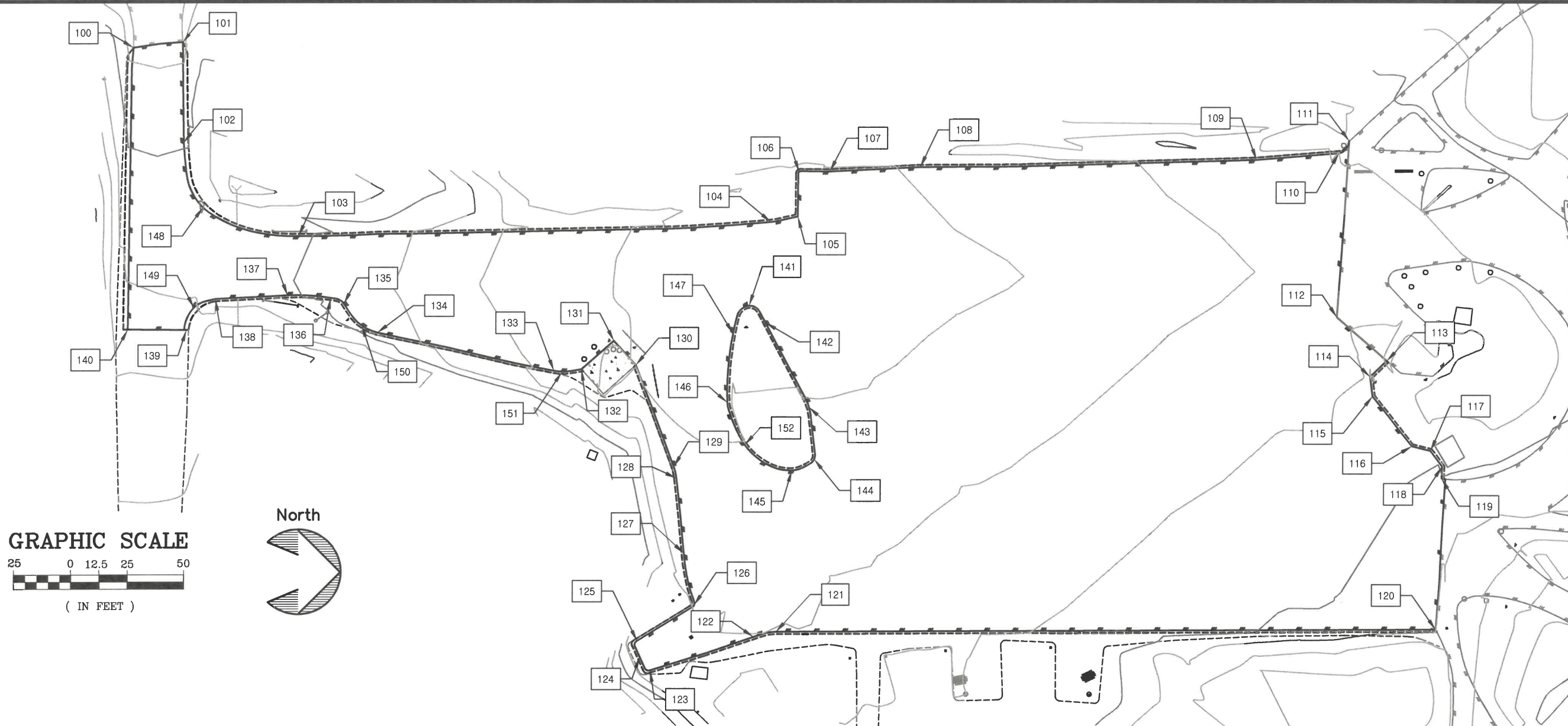


PREPARED: FWS
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REVIEWED: RCS
DATE: APRIL 2025

SHEET

6

OF 12 SHEETS



COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2308982.61	1412084.36	92.18 ± M.E.	EOP
101	2309004.42	1412081.90	92.23 ± M.E.	EOP
102	2309004.87	1412125.99	90.18	EOP
103	2309055.35	1412167.09	89.72	EOP
104	2309263.42	1412161.03	96.82	EOP
105	2309275.24	1412158.62	96.80	EOP
106	2309275.70	1412139.01	96.70	EOP
107	2309289.24	1412138.84	96.40	EOP
108	2309328.87	1412136.91	95.77	EOP
109	2309476.98	1412133.68	92.98	EOP
110	2309513.18	1412130.75	92.01	EOP
111	2309517.73	1412125.34	91.69 ± M.E.	EOP
112	2309512.60	1412202.76	92.75 ± M.E.	EOP
113	2309534.64	1412221.93	92.22 ± M.E.	EOP
114	2309527.37	1412228.95	92.19	EOP
115	2309528.49	1412237.47	91.74	EOP
116	2309545.75	1412259.43	90.68	EOP

COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
117	2309554.07	1412261.54	90.26	EOP
118	2309559.16	1412268.37	90.38	EOP
119	2309558.98	1412273.57	89.74 ± M.E.	EOP
120	2309556.69	1412340.12	86.83 ± M.E.	EOP
121	2309266.07	1412341.16	93.96	EOP
122	2309256.11	1412343.44	93.97	EOP
123	2309210.52	1412358.16	92.80	EOP
124	2309205.92	1412352.23	92.86	EOP
125	2309204.72	1412345.18	92.82	EOP
126	2309229.89	1412329.40	94.23	EOP
127	2309225.25	1412306.56	94.71	EOP
128	2309221.90	1412273.54	95.46	EOP
129	2309220.72	1412268.57	95.59	EOP
130	2309203.87	1412223.85	95.94 ± M.E.	EOP
131	2309194.26	1412213.20	95.95 ± M.E.	EOP
132	2309180.10	1412225.67	95.86 ± M.E.	EOP
133	2309168.09	1412226.36	94.91	EOP

COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
134	2309089.96	1412209.52	91.16	EOP
135	2309075.28	1412196.84	90.80	EOP
136	2309069.41	1412194.22	90.59	EOP
137	2309050.56	1412193.10	89.75	EOP
138	2309019.00	1412194.68	88.67	EOP
139	2309006.17	1412208.26	87.14	EOP
140	2308980.20	1412208.08	86.88	EOP
141	2309253.78	1412197.79	97.01	EOP
142	2309261.05	1412205.21	96.83	EOP
143	2309280.33	1412242.35	95.90	EOP
144	2309282.69	1412265.25	95.49	EOP
145	2309272.90	1412270.14	95.50	EOP
146	2309244.30	1412240.27	96.51	EOP
147	2309246.78	1412209.98	96.63	EOP

RADIUS POINT TABLE				
POINT #	NORTHING	EASTING	RADIUS	DESCRIPTION
148	2309013.43	1412154.47	32'	RADIUS
149	2309009.52	1412198.44	15'	RADIUS
150	2309083.14	1412206.40	20'	RADIUS
151	2309171.65	1412226.73	20'	RADIUS
152	2309252.00	1412258.89	27'	RADIUS



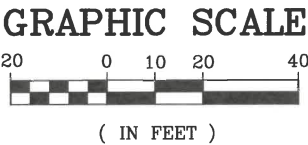
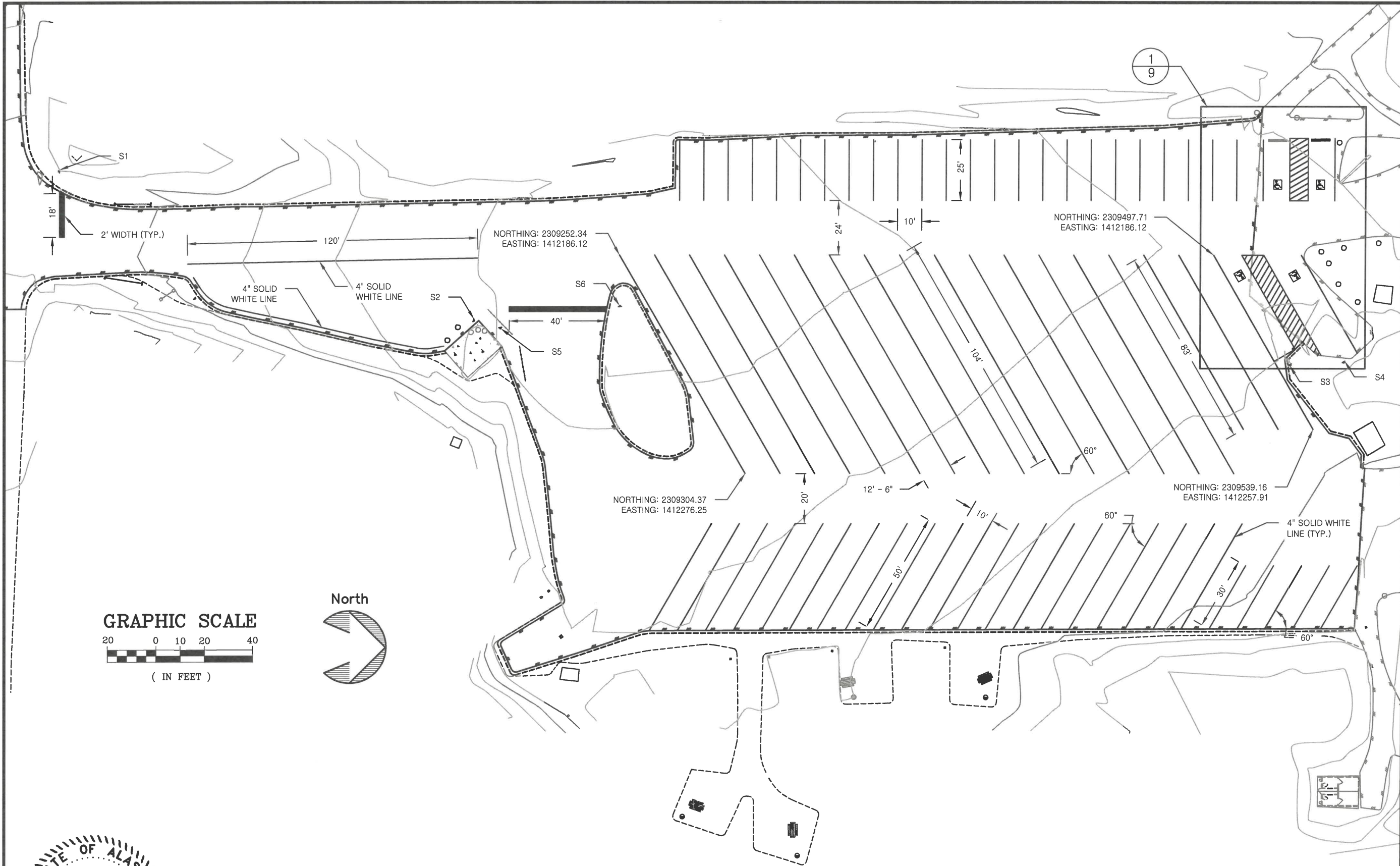
STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
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550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731



PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2025

SHEET
7
OF 12 SHEETS

GRADING PLAN
KASILOF RIVER SRS
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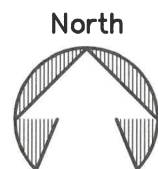
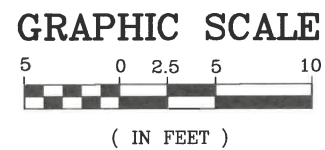


PREPARED: FWS
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 DATE: APRIL 2025

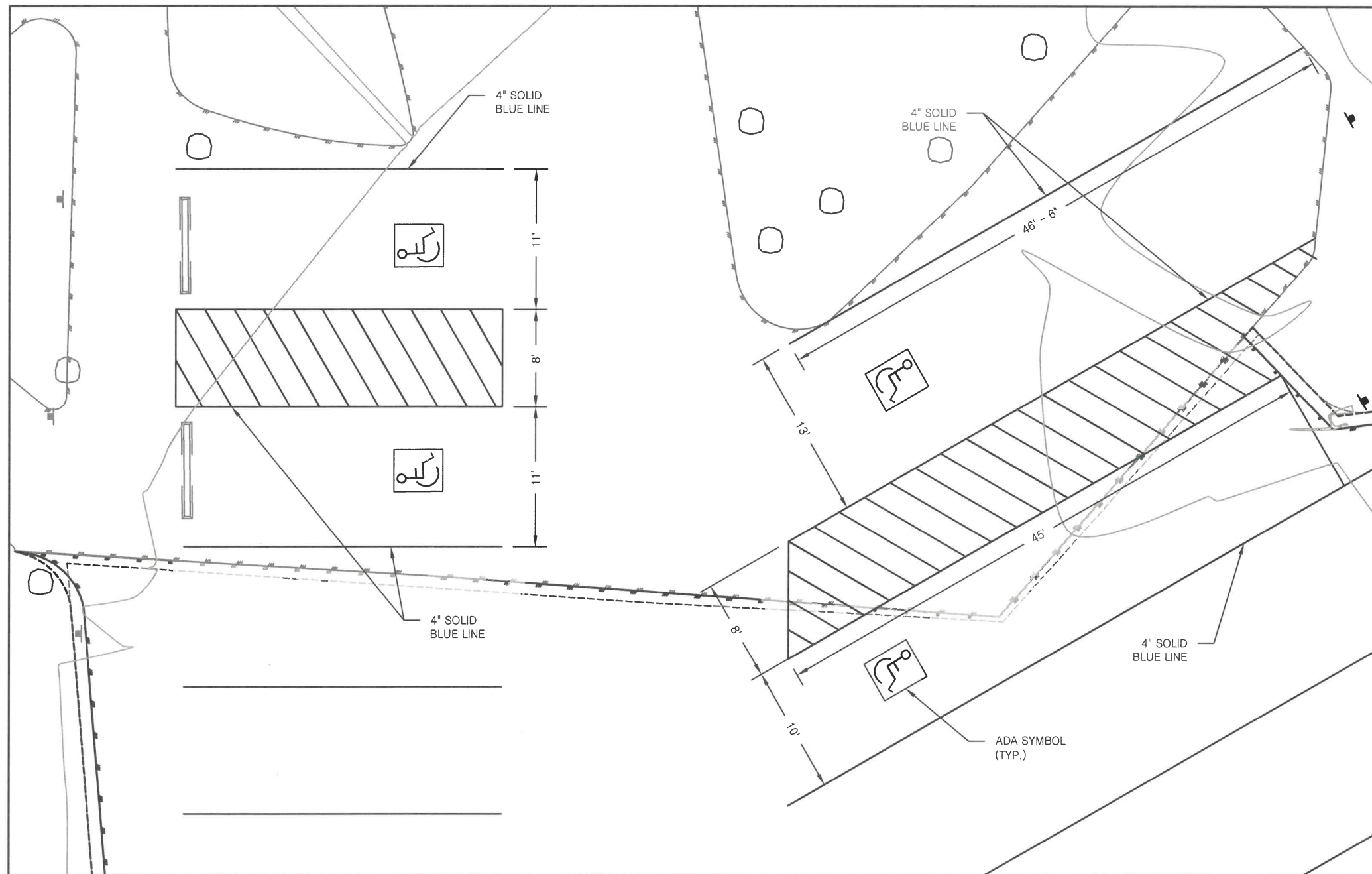
SHEET
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 OF 12 SHEETS

KASILOF RIVER SRS
 PARKING IMPROVEMENTS
 PROJECT NO. 71882-2

SIGN & STRIPING PLAN



1
9 ADA STRIPING
DETAIL



PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2025

SHEET

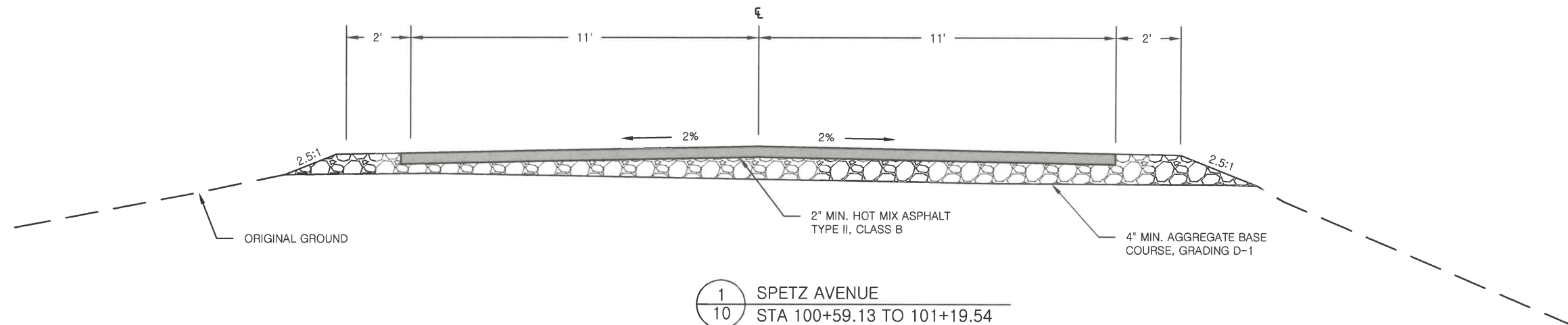
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OF 12 SHEETS

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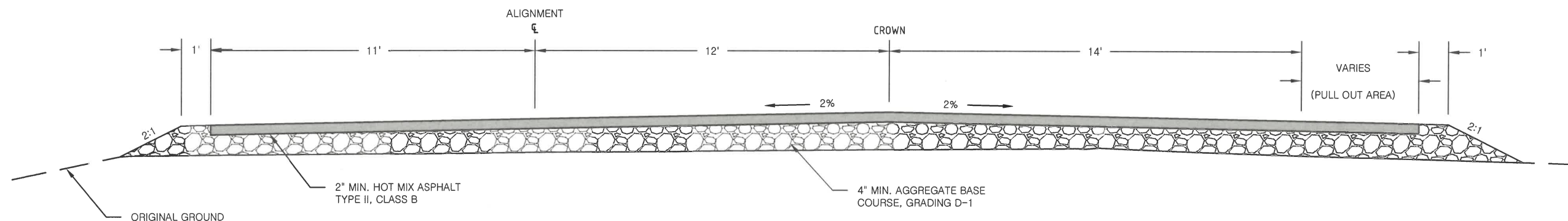
KASILOF RIVER SRS
PARKING IMPROVEMENTS
PROJECT NO. 71882-2

STRIPING DETAIL



NOTES:

1. FINISH GRADE MINIMUM OF 4" ABOVE EXISTING GROUND.
2. TYPICAL SECTIONS SHOWN ARE NTS. VERTICAL DATUM IS EXAGGERATED FOR CLARITY.
3. RECONDITION EXISTING GRAVEL SURFACE PRIOR TO PLACING AGGREGATE BASE COURSE.



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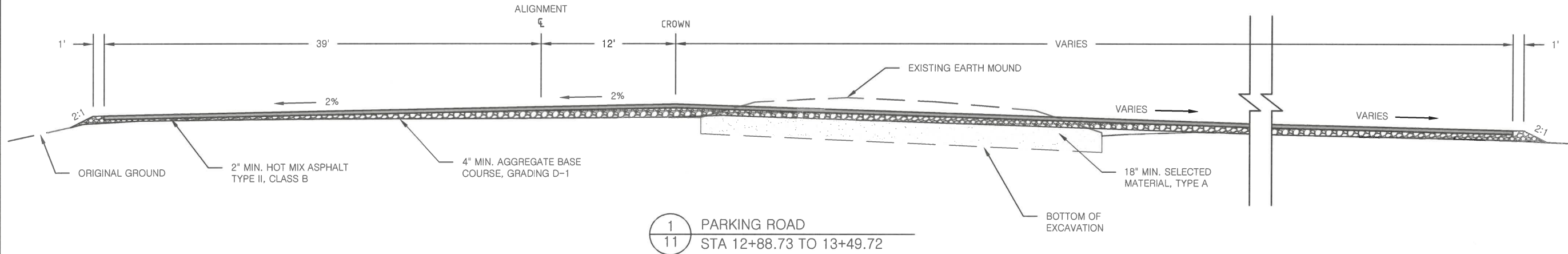
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PROJECT NO. 71882-2

SPETZ AVENUE & ENTRANCE ROAD
TYPICAL SECTIONS

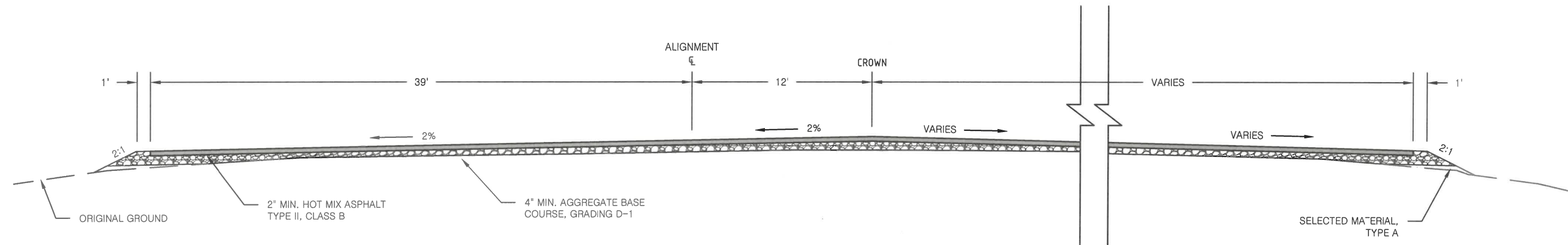


PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2025

SHEET
10
OF 12 SHEETS

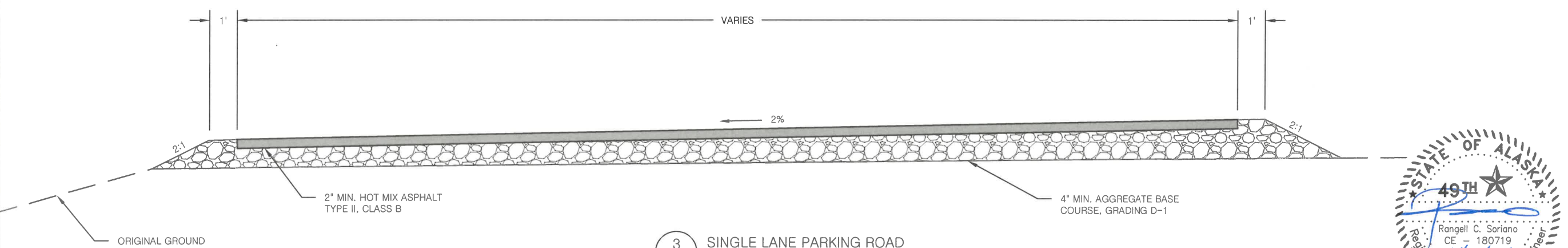


1
11 PARKING ROAD
STA 12+88.73 TO 13+49.72



2
11 PARKING ROAD
STA 13+49.72 TO 15+17.07

- NOTES:
1. FINISH GRADE MINIMUM OF 4" ABOVE EXISTING GROUND.
 2. TYPICAL SECTIONS SHOWN ARE NTS. VERTICAL DATUM IS EXAGGERATED FOR CLARITY.
 3. RECONDITION EXISTING GRAVEL SURFACE PRIOR TO PLACING AGGREGATE BASE COURSE.



3
11 SINGLE LANE PARKING ROAD
STA 20+51.22 TO 21+66.88



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PARKING AREA
TYPICAL SECTIONS

KASLOF RIVER SRS
PARKING IMPROVEMENTS
PROJECT NO. 71882-2



PREPARED: FWS
DRAWN: FWS
REVIEWED: RCS
DATE: APRIL 2024

SHEET
11
OF 12 SHEETS

ITEM 615.0001.0000 STANDARD SIGN										
SIGN NO.	STATION	FACING	TYPE	LEGEND	SIZE (INxIN)	AREA (S.F.)	THICKNESS (IN.)	SIGN POST DATA		
								TYPE	SIZE (IN)	NO.
S1	10+28.97 27.4' LT	NORTH	R1-1		30 x 30	6.25	0.125	PST	2.5 x 2.5	1
S2	11+98.73 37.6' RT	SOUTHWEST	CS-1		12 x 18	1.5	0.125	PST	2.5 x 2.5	1
S3	15+35.78 62.3' RT	SOUTHWEST	R7-8		12 X 18	1.5	0.125	PST	2.5 x 2.5	1
		SOUTHWEST	R7-8A		18 x 9	1.13	0.125			
S4	15+57.91 61.6' RT	SOUTHWEST	R7-8		12 X 18	1.5	0.125	PST	2.5 x 2.5	1
		SOUTHWEST	R7-8A		18 X 9	1.13	0.125			
S5	21+51.90 24.3' LT	WEST	R5-1		30 x 30	6.25	0.125	PST	2.5 x 2.5	1
S6	21+60.52 25.0' RT	EAST	R1-1		30 x 30	6.25	0.125	PST	2.5 x 2.5	1
		WEST	R5-1		30 x 30	6.25	0.125			
				TOTALS		31.76				5

- NOTES:
- ALL SIGN TYPES ARE REFERENCED FROM THE ALASKA SIGN DESIGN GUIDE SPECIFICATIONS, 2020 EDITION, UNLESS OTHERWISE SPECIFIED.
 - SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS WILL BE APPROVED BY THE ENGINEER.
 - ALL SIGNS WILL HAVE A CONCRETE BASE.





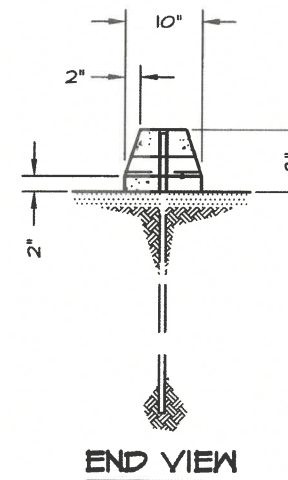
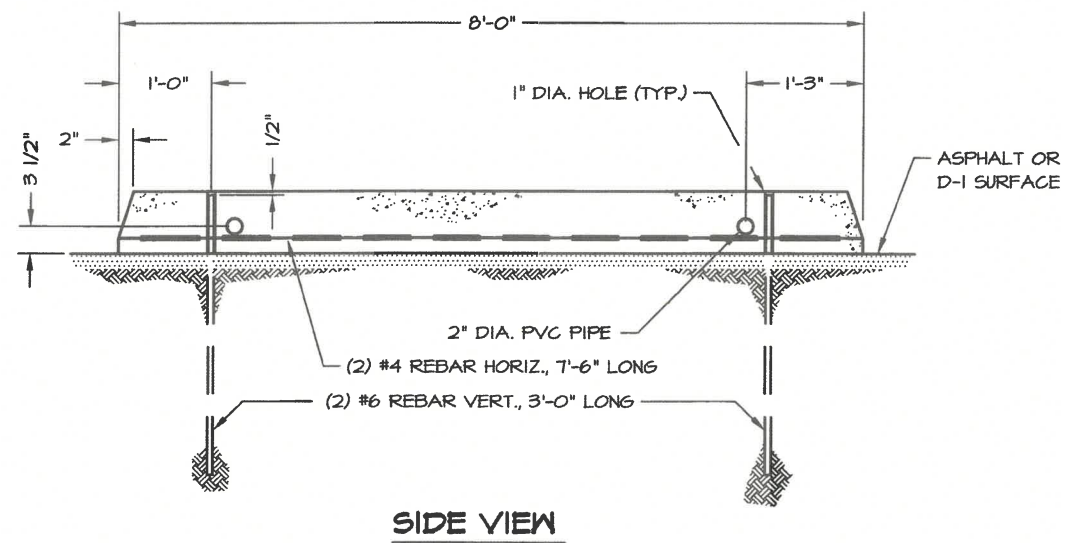
STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
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550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

PREPARED: WDG
DRAWN: WDG
REVIEWED: RCS
DATE: APRIL 2025

SHEET
12
OF 12 SHEETS

SIGN SUMMARY

KASILOF RIVER SRS
PARKING IMPROVEMENTS
PROJECT NO. 71882-2



① CONCRETE PARKING BUMPER



PREPARED: tlc
DRAWN: tlc
REVIEWED: DH
DATE: 1 MAY 94

NO.	REVISION	DATE	APPROVED
11	REPLACED STAMP	12/13	REM
10	CHANGED STATE PARK LOGO	04/10	MPS
9	CHANGED TITLE BLOCK	12/07	MPS
8	DELETED WOOD PARKING BUMPER & NOTES	10/03	MPS
7	UPDATED PRESSURE TREATMENT NOTE	12/04	MPS
6	UPDATED PRESSURE TREATMENT NOTE	3/04	MPS
5	REPLACED STAMP	3/04	MPS
4	REPLACED STAMP	3/02	DH

SHEET 1
P-6
OF 1 SHEETS

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES

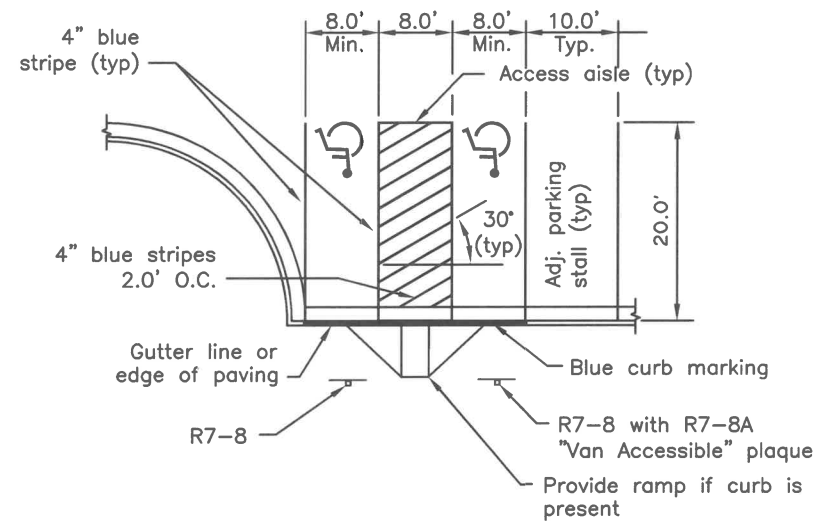
DESIGN & CONSTRUCTION SECTION

PARKING BUMPER

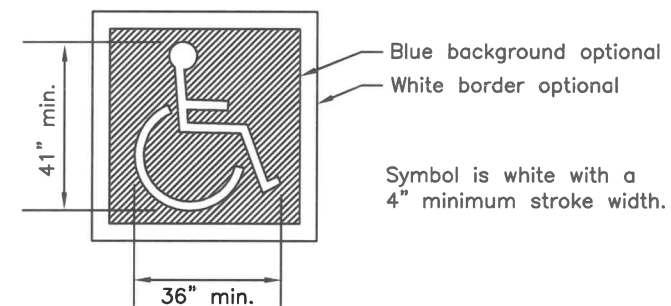
I-30.10

GENERAL NOTES:

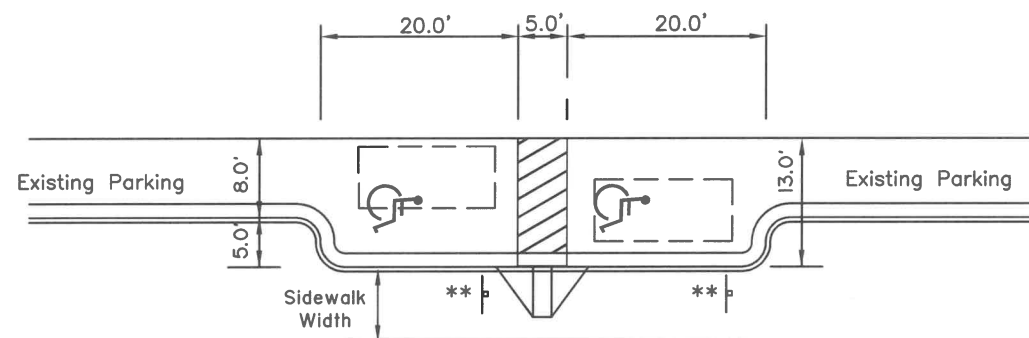
1. Accessible aisles and accessible routes and those pathways leading from the accessible parking space to the sidewalk shall be free of any obstructions, fixtures or loose surfaces.
2. See standard drawing I-20, I-21, I-22 for curb and curb ramp details.
3. All curb ramps shall be constructed of concrete.
4. The slope for all accessible parking spaces, van accessible parking spaces and access aisles shall not exceed 50:1 in any direction.
5. Although only perpendicular ramps are shown, either parallel or perpendicular ramps are allowable, space permitting.



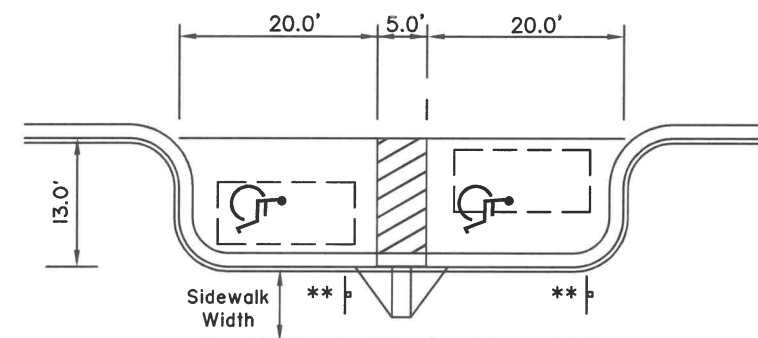
PARKING LOT ACCESSIBLE PERPENDICULAR PARKING



PAVEMENT MARKING SYMBOL DETAIL



ACCESSIBLE ON-STREET PARALLEL PARKING PARTIAL INSET



ACCESSIBLE ON-STREET PARALLEL PARKING FULL INSET

ON-STREET PARALLEL PARKING NOTES

1. The 13' width provides for 8' wide parking with a 5' wide access aisle on either side of a car.
2. Add a new curb ramp and 5' aisle between parking places for each additional two accessible parking spaces.
3. Parking spaces may be made van accessible by providing an unobstructed 8' sidewalk width next to each parking space. Ensure curb ramps, parking meters, sign posts, etc. do not encroach on the area where a van's lift would operate.
4. In some cases, ADAAG may allow normal-width parking spaces at the beginning and end of blocks to be designated as accessible. See the latest ADAAG.

** R7-8 "Reserved Parking" and, where appropriate (see note 3), R7-8A, "Van Accessible".

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

ACCESSIBLE PARKING

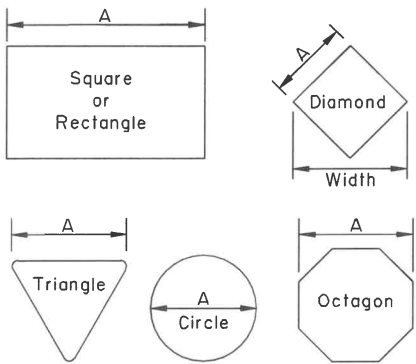
49TH DISTRICT
J. O. Smith
CE-7547

APPROVED
49TH DISTRICT
J. O. Smith
CE-7547

Date 2/28/03

GENERAL NOTES

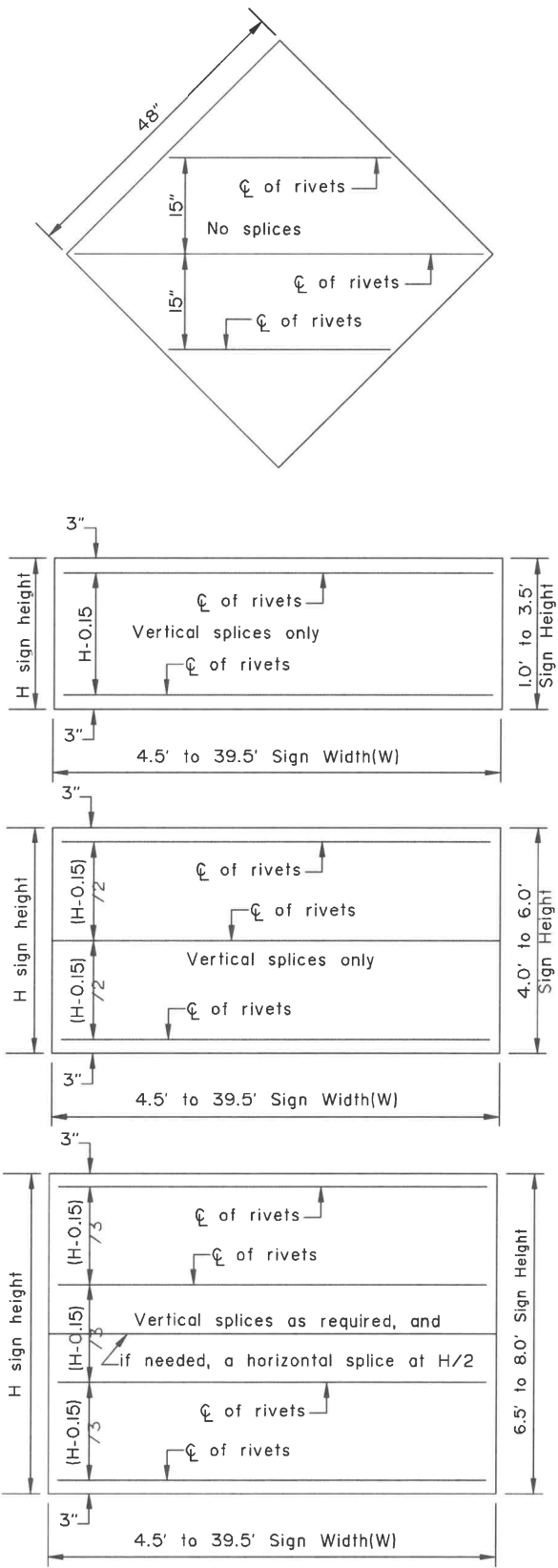
1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at least 8.0' apart.
5. Attach wind framing members with rivets or with an engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
7. Sign fabricators may use sign panels extruded with integral framing with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
8. Frame all signs taller than 8.0' with five wind framing members located $(H-0.15)/4$ spaces. If needed, make a horizontal splice at the middle wind frame.
9. Do not use round pipes for sign supports.



Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

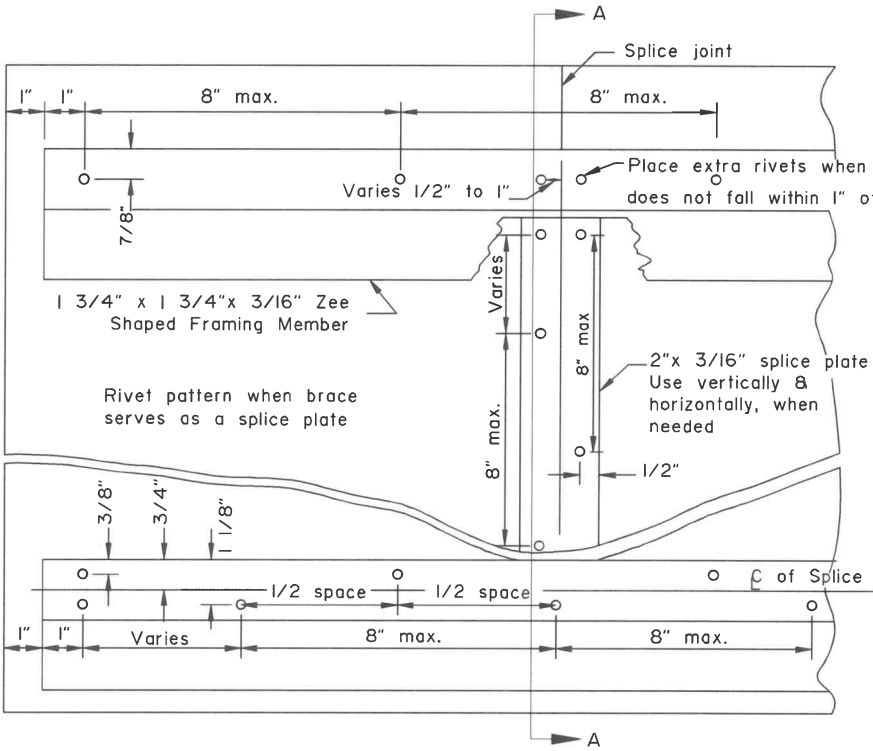
Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS

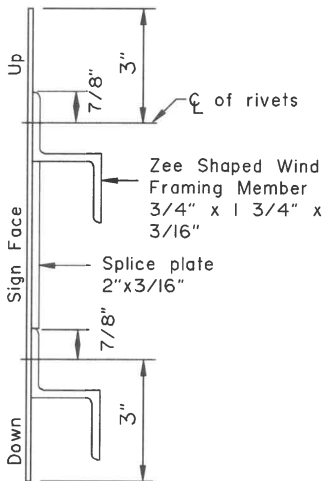


WIND FRAMING
LOCATIONS

Note: Drawing not to scale



RIVET DETAIL FOR ZEE SHAPED
WIND FRAMING & SPLICE PLATE



SECTION A-A

State of Alaska DOT&PF
ALASKA STANDARD PLAN
SIGN FRAMING

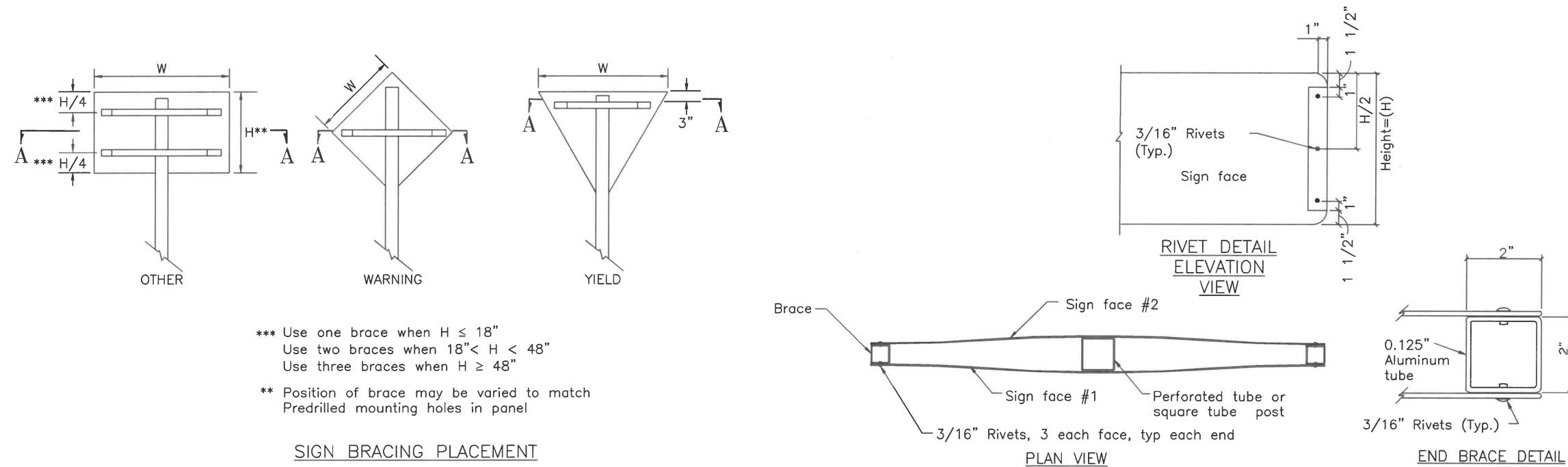
Adopted as an Alaska
Standard Plan by: *Carolyn Morehouse*

Carolyn Morehouse, P.E.
Chief Engineer

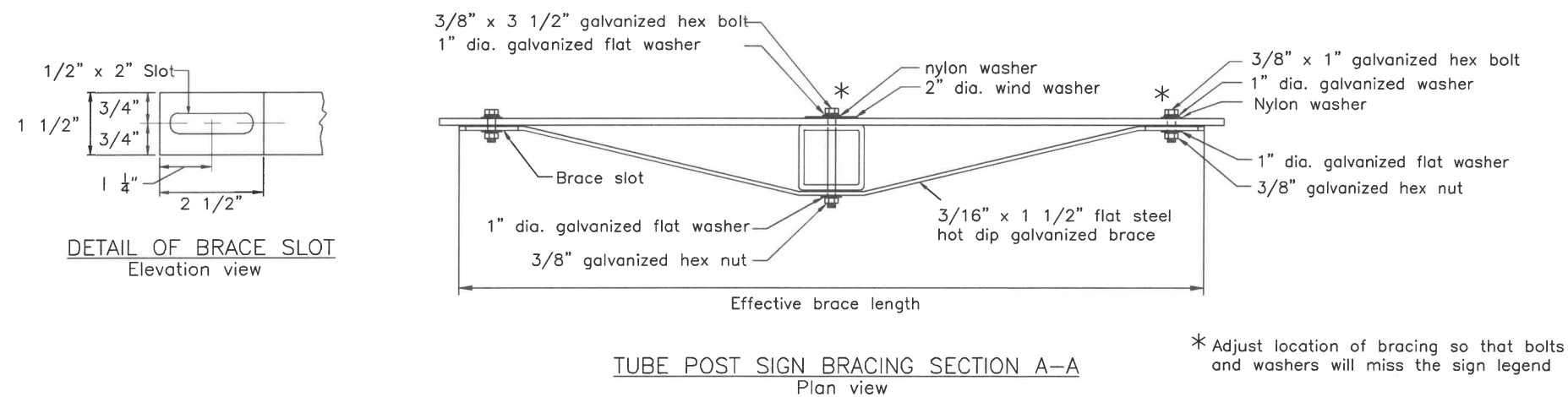
Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030



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



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

Note: Drawing not to scale

State of Alaska DOT&PF
 ALASKA STANDARD PLAN

**BRACING FOR SIGNS
 MOUNTED ON SINGLE POST**

Adopted as an Alaska
 Standard Plan by: *Carolyn Morehouse*

Carolyn Morehouse, P.E.
 Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
 By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

