



Izembek

National Wildlife Refuge

Land Exchange/Road Corridor

Final Environmental Impact Statement

Appendix E Water Sources and 35 Percent Road Design





U.S. Fish and Wildlife Service Mission Statement

The Mission of the U.S. Fish & Wildlife Service is working with others to conserve, protect and enhance fish, wildlife, plants and their habitats for the continuing benefit of the American people.



Refuge System Mission Statement

The Mission of the National Wildlife Refuge System is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans.

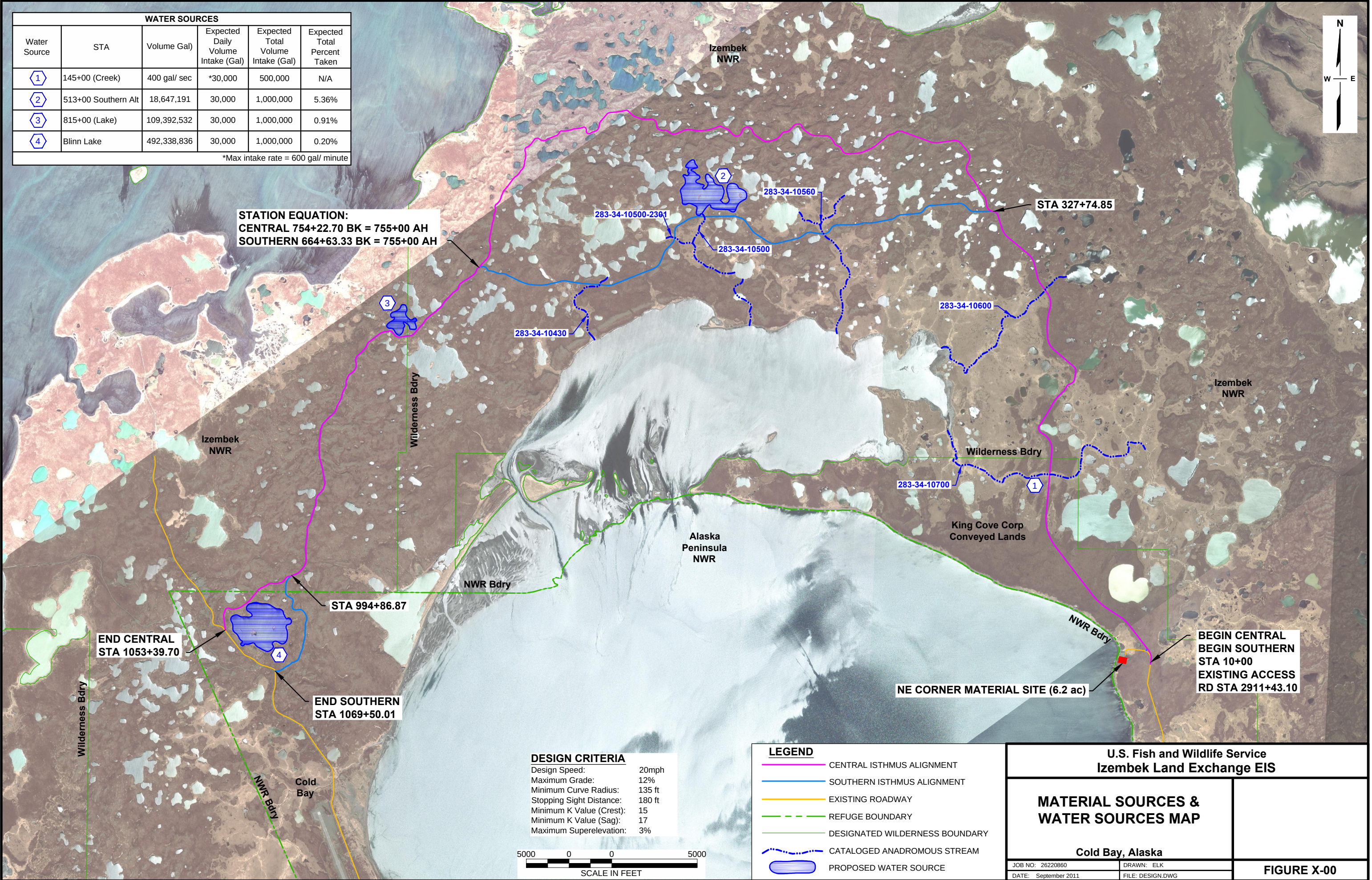
—National Wildlife Refuge System Improvement Act of 1997

APPENDIX E
Water Sources and 35 Percent Road Design

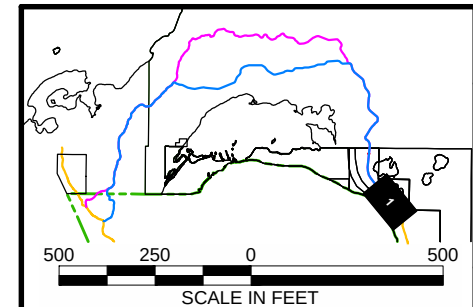
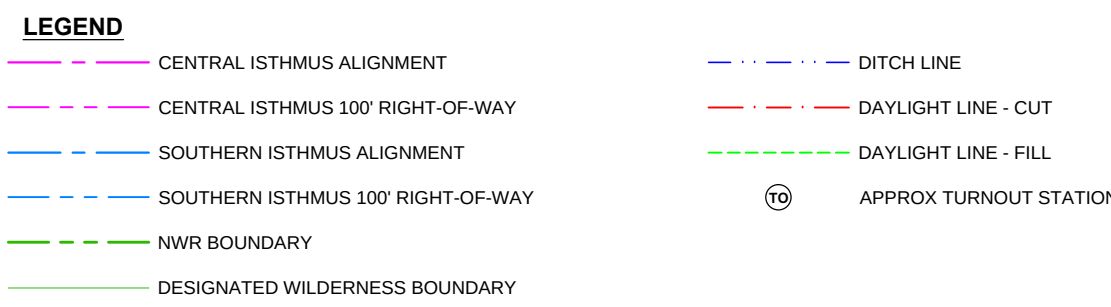
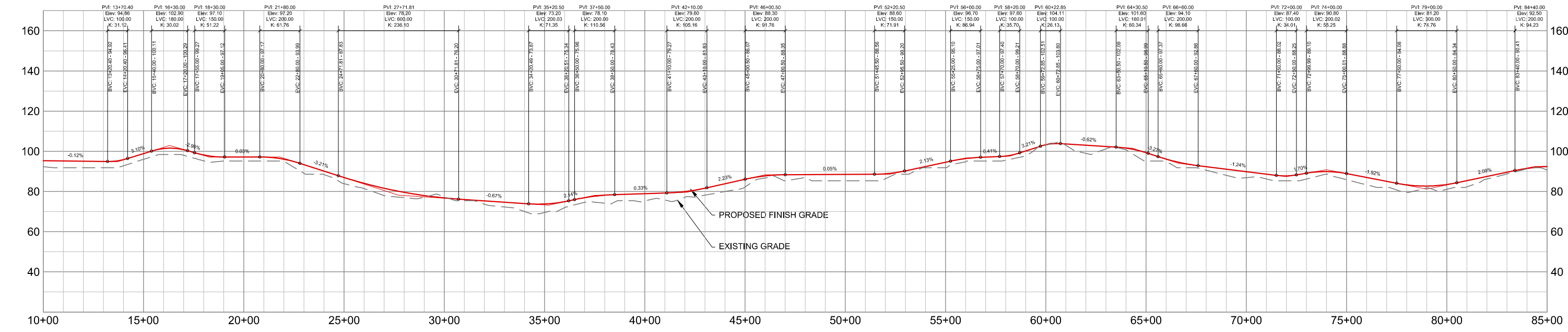
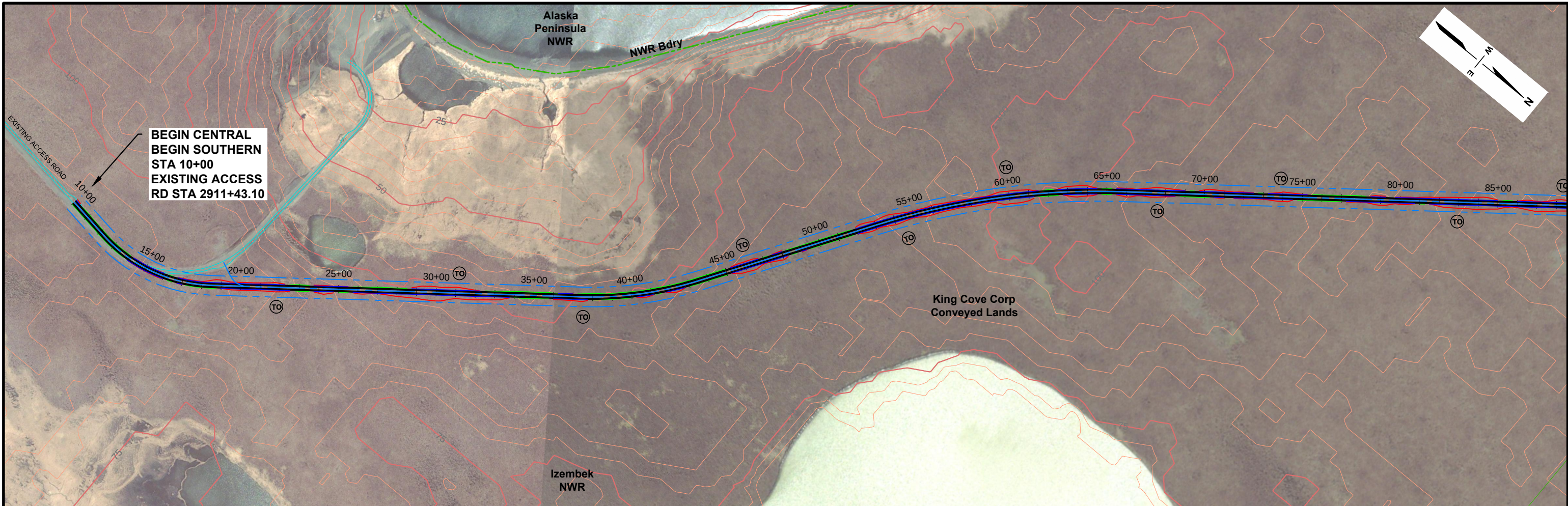
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WATER SOURCES					
Water Source	STA	Volume Gal)	Expected Daily Volume Intake (Gal)	Expected Total Volume Intake (Gal)	Expected Total Percent Taken
1	145+00 (Creek)	400 gal/ sec	*30,000	500,000	N/A
2	513+00 Southern Alt	18,647,191	30,000	1,000,000	5.36%
3	815+00 (Lake)	109,392,532	30,000	1,000,000	0.91%
4	Blinn Lake	492,338,836	30,000	1,000,000	0.20%

*Max intake rate = 600 gal/ minute

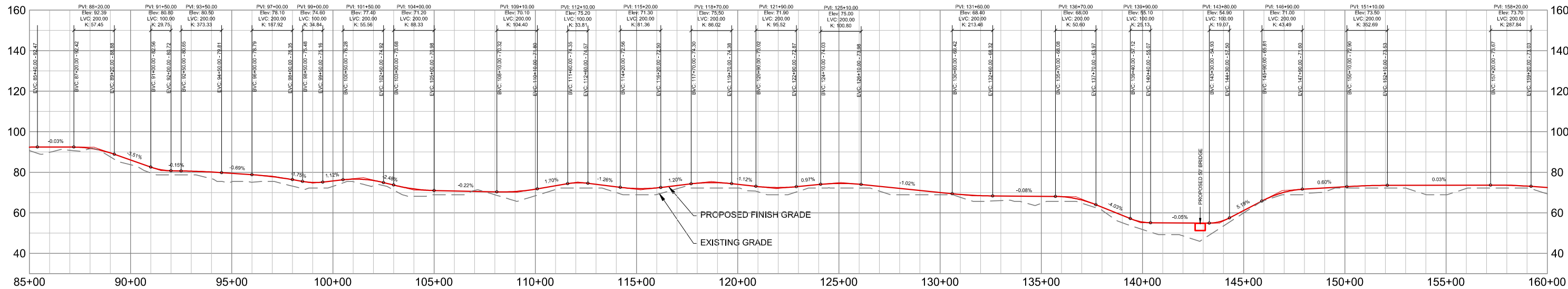
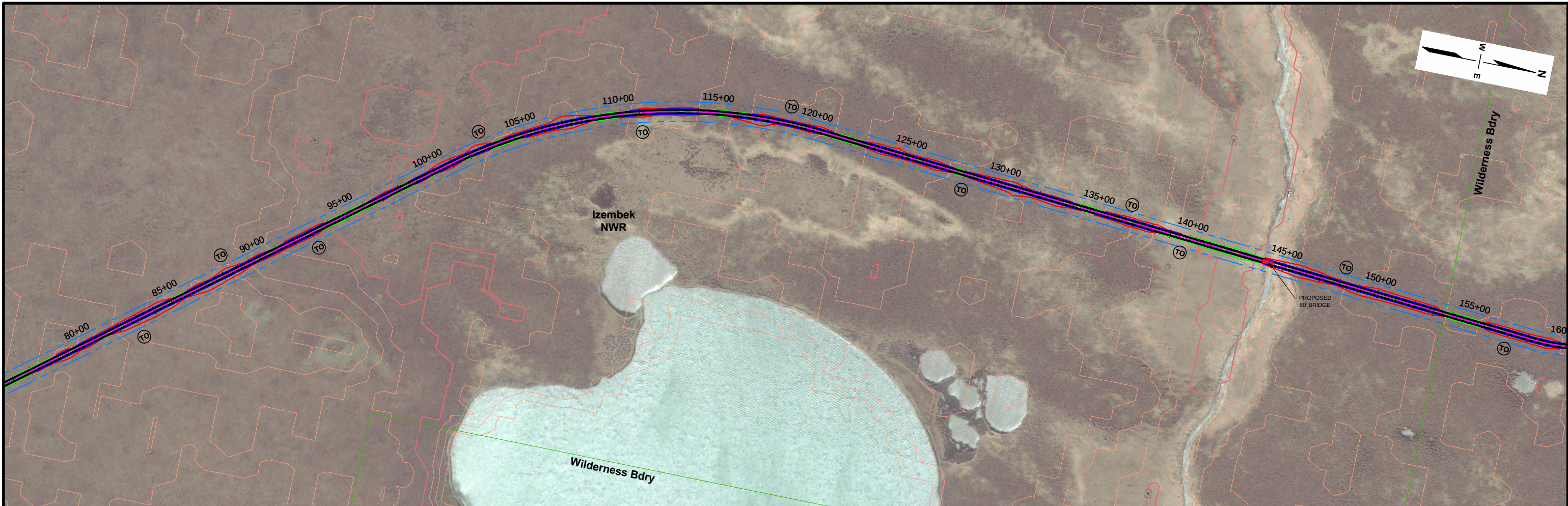


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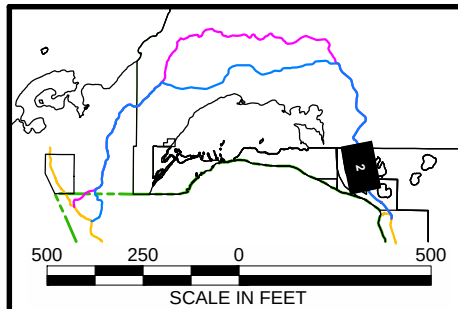
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Cold Bay, Alaska	
JOB NO: 26220860	DRAWN: ELK
DATE: October 2011	FILE: PNP SHEETS.DWG
FIGURE X-01	

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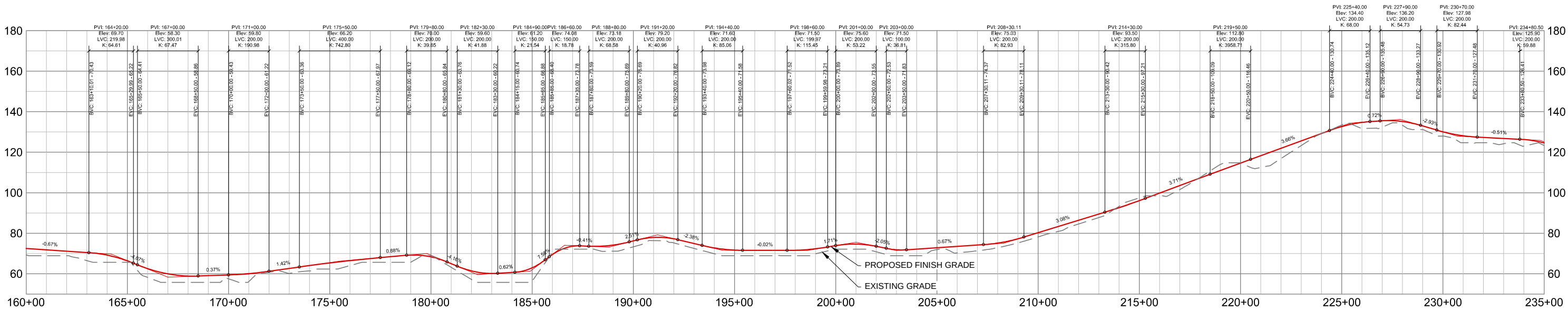
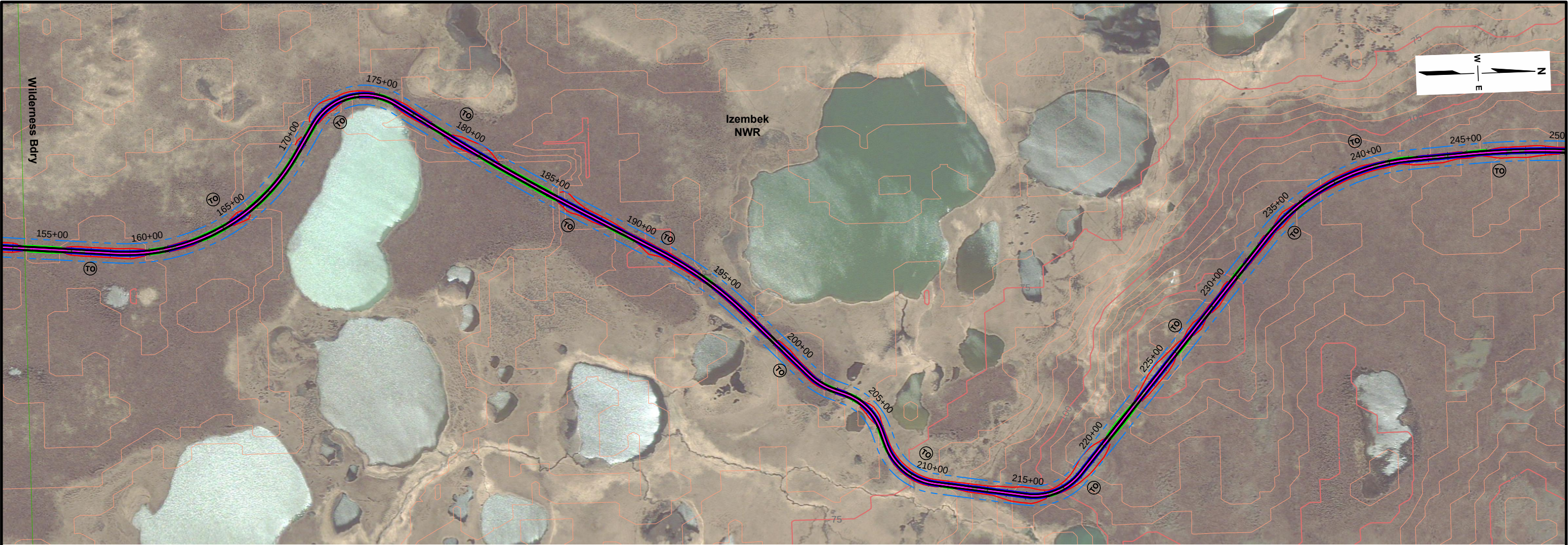
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- - - CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- - - SOUTHERN ISTHMUS ALIGNMENT
- - - SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- - - NWR BOUNDARY
- - - DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- ⊙ APPROX TURNOUT STATION



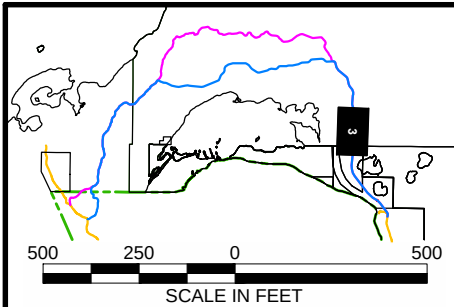
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JOB NO: 26220860	DRAWN: ELK	FIGURE X-02
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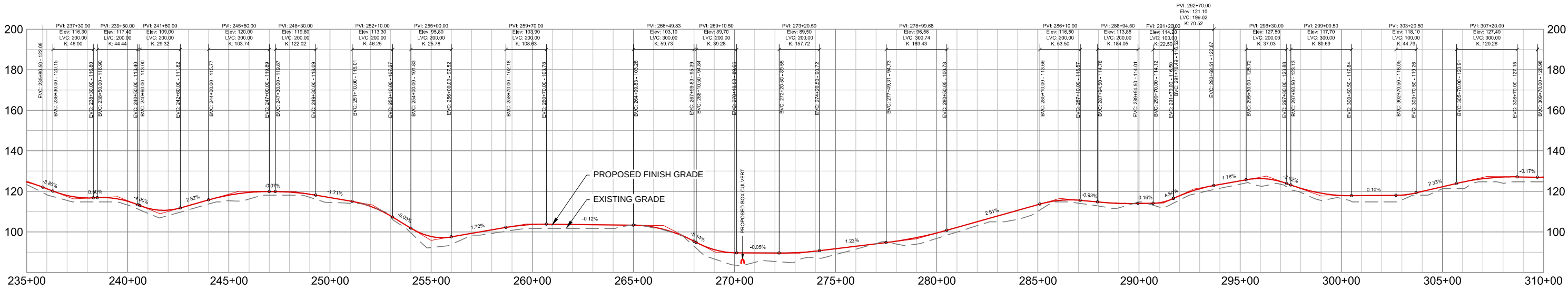
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



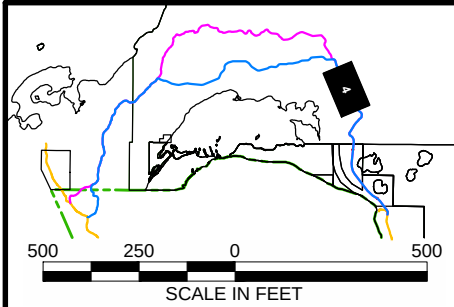
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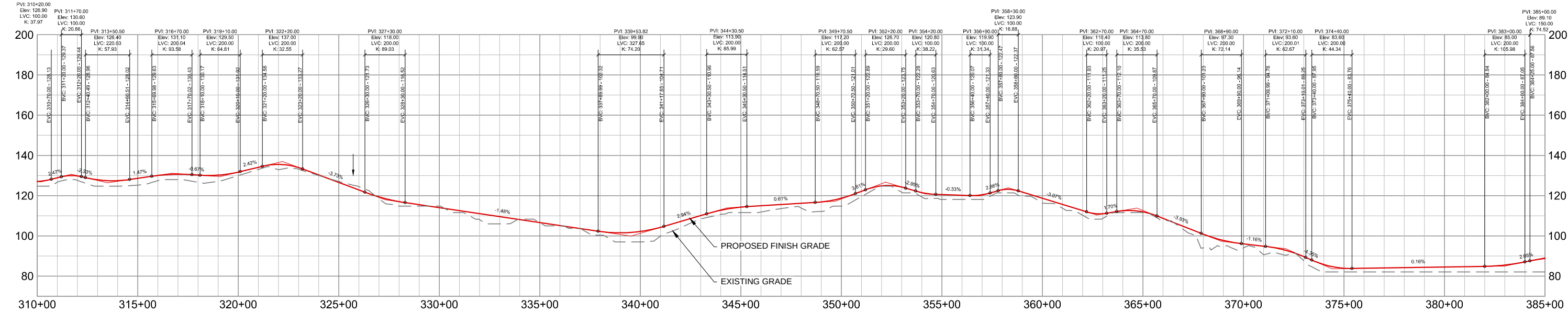
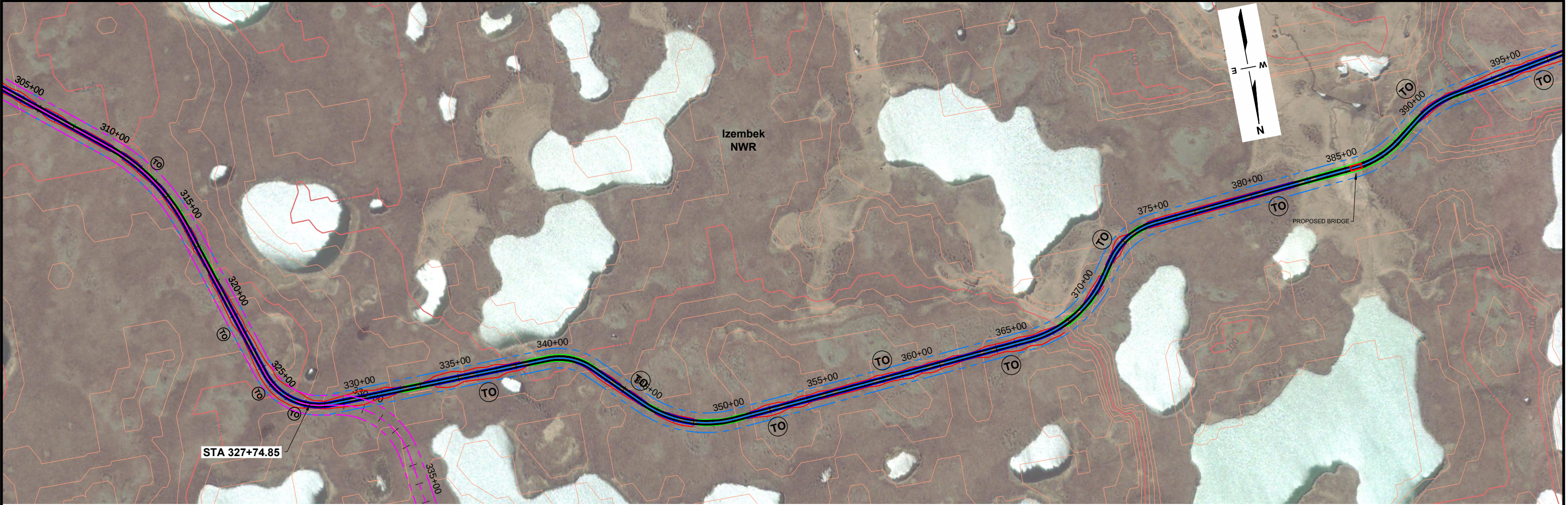
LEGEND

- | | |
|--|----------------------------------|
| — — — — — CENTRAL ISTHMUS ALIGNMENT | - . - . - . DITCH LINE |
| — — — — — CENTRAL ISTHMUS 100' RIGHT-OF-WAY | - . - . - . DAYLIGHT LINE - CUT |
| — — — — — SOUTHERN ISTHMUS ALIGNMENT | - . - . - . DAYLIGHT LINE - FILL |
| — — — — — SOUTHERN ISTHMUS 100' RIGHT-OF-WAY | (TO) APPROX TURNOUT STATION |
| — — — — — NWR BOUNDARY | |
| — — — — — DESIGNATED WILDERNESS BOUNDARY | |



U.S. Fish and Wildlife Service Izembek Land Exchange EIS		
PLAN AND PROFILE STA 235+00 to 310+00 (CENTRAL) STA 235+00 to 310+00 (SOUTHERN) Cold Bay, Alaska		FIGURE X-04
JOB NO: 26220860	DRAWN: ELK	
DATE: October 2011	FILE: PNP SHEETS.DWG	

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LEGEND

CENTRAL ISTHMUS ALIGNMENT

CENTRAL ISTHMUS 100' RIGHT-OF-WAY

SOUTHERN ISTHMUS ALIGNMENT

SOUTHERN ISTHMUS 100' RIGHT-OF-WAY

NWR BOUNDARY

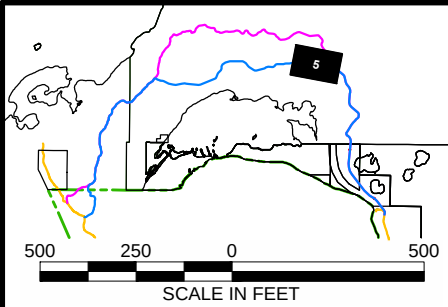
DESIGNATED WILDERNESS BOUNDARY

DITCH LINE

DAYLIGHT LINE - CUT

DAYLIGHT LINE - FILL

APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

PLAN AND PROFILE
STA 310+00 to 385+00 (SOUTHERN)

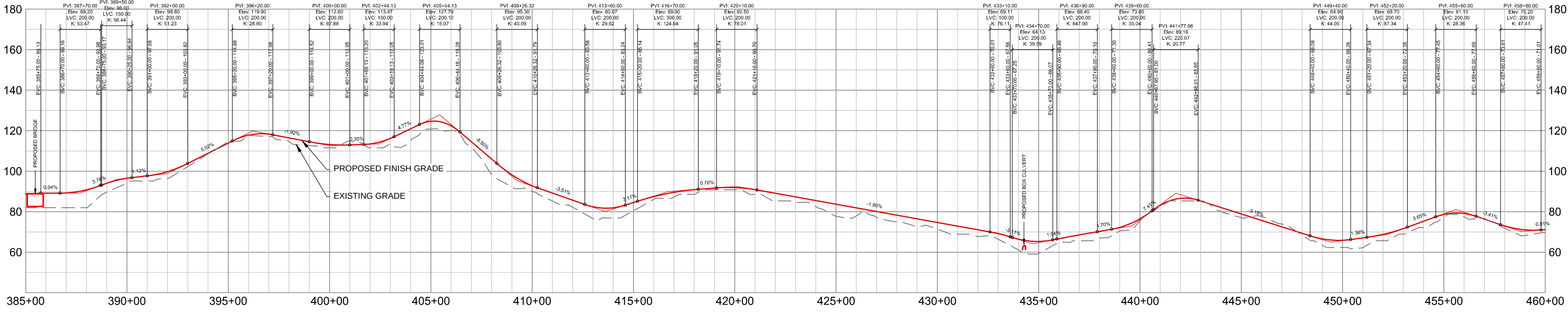
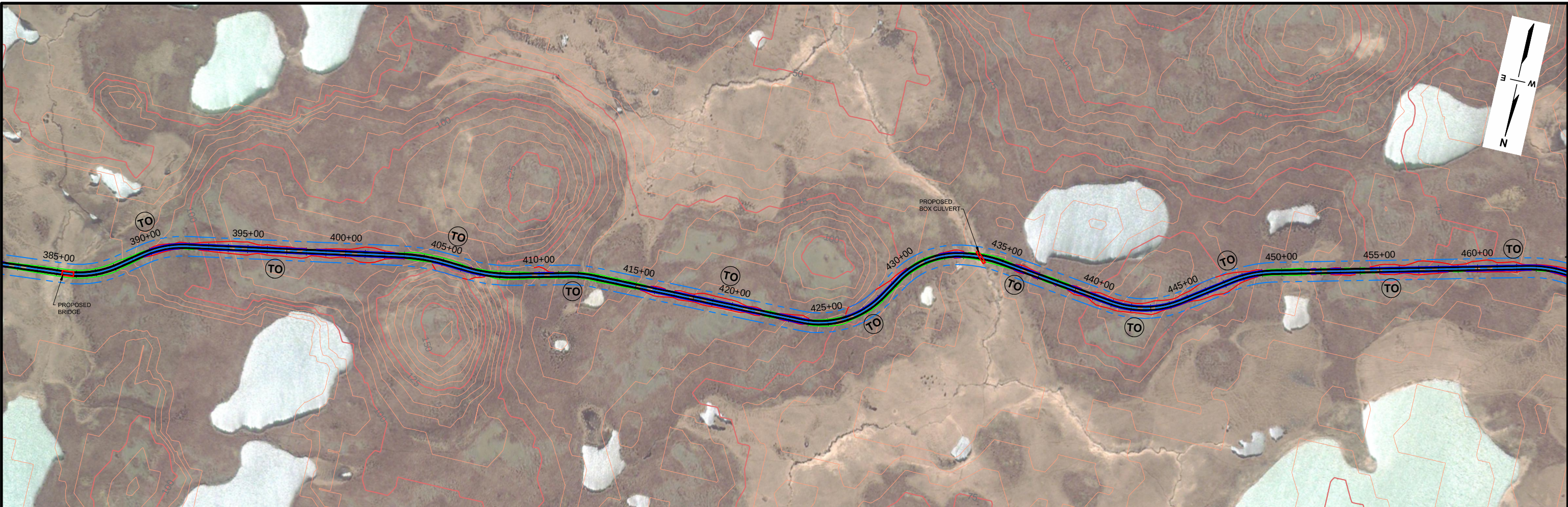
Cold Bay, Alaska

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DATE: October 2011

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FILE: PNP SHEETS.DWG

FIGURE X-05

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LEGEND

— — — — —

CENTRAL ISTHMUS ALIGNMENT

— — — — —

CENTRAL ISTHMUS 100' RIGHT-OF-WAY

— — — — —

SOUTHERN ISTHMUS ALIGNMENT

— — — — —

SOUTHERN ISTHMUS 100' RIGHT-OF-WAY

— — — — —

NWR BOUNDARY

— — — — —

DESIGNATED WILDERNESS BOUNDARY

— — — — —

DITCH LINE

— — — — —

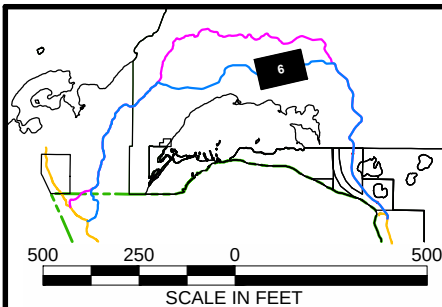
DAYLIGHT LINE - CUT

— — — — —

DAYLIGHT LINE - FILL

⊙

APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

PLAN AND PROFILE
STA 385+00 to 460+00 (SOUTHERN)

Cold Bay, Alaska

JOB NO: 26220860

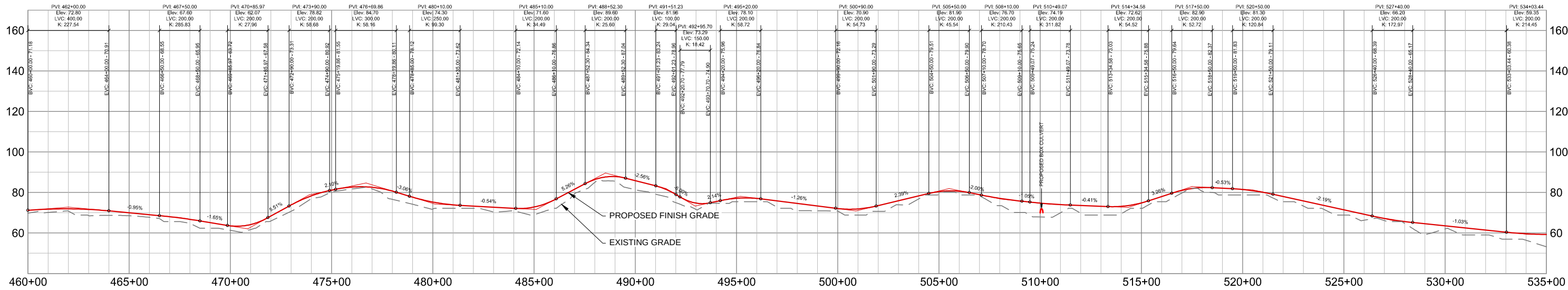
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FILE: PNP SHEETS.DWG

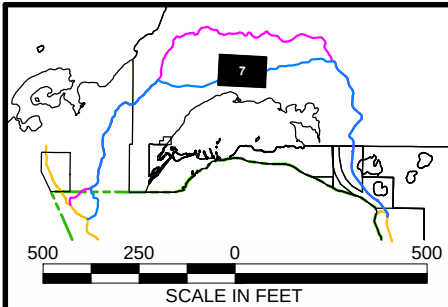
FIGURE X-06

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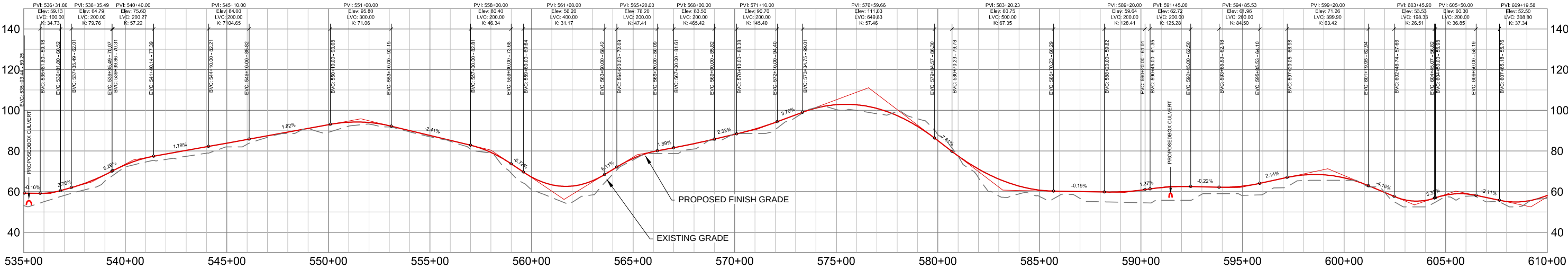
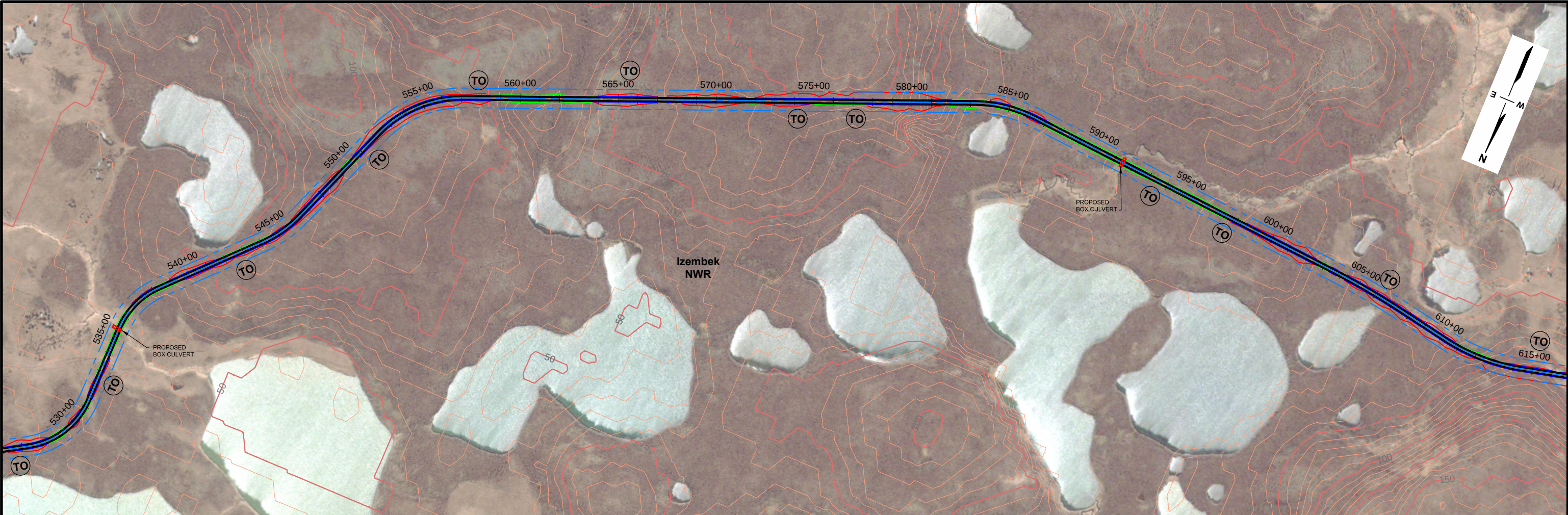
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



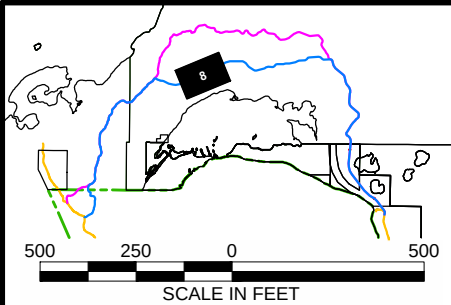
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Cold Bay, Alaska		
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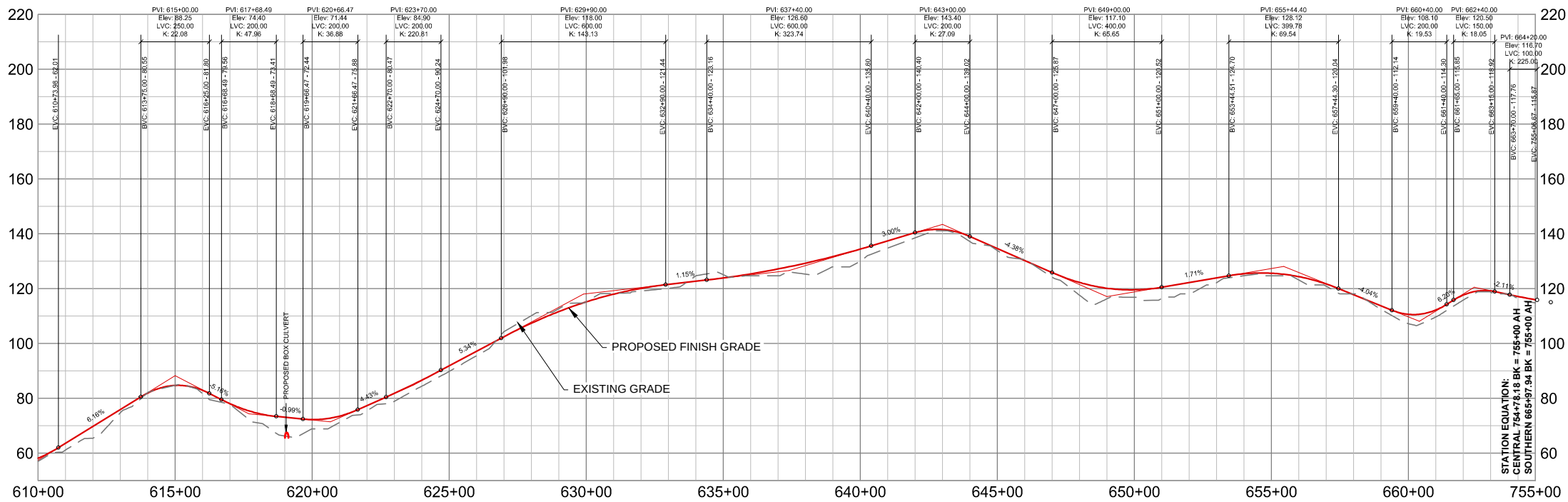
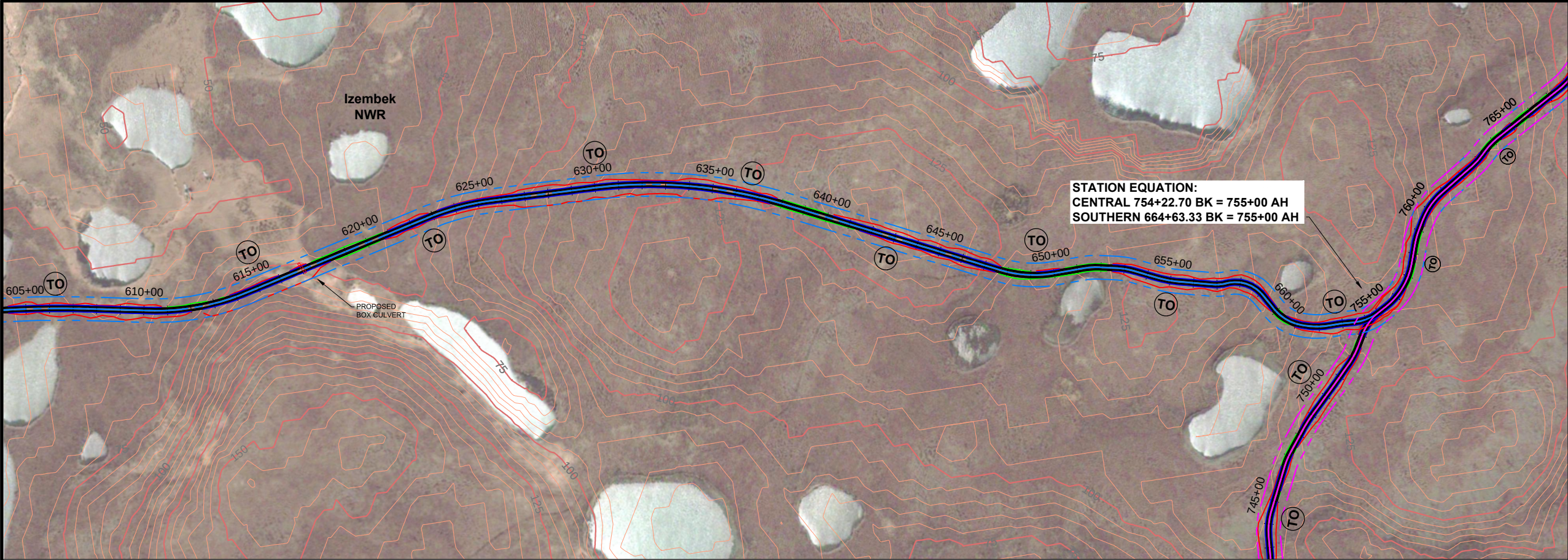
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- . - . - DITCH LINE
- . - . - DAYLIGHT LINE - CUT
- . - . - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



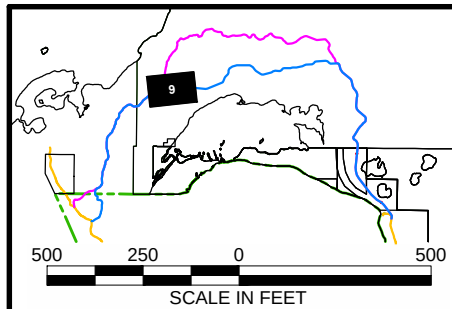
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JOB NO: 26220860	DRAWN: ELK	FIGURE X-08
DATE: October 2011	FILE: PNP SHEETS.DWG	

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LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

PLAN AND PROFILE
STA 610+00 to 755+00 (SOUTHERN)

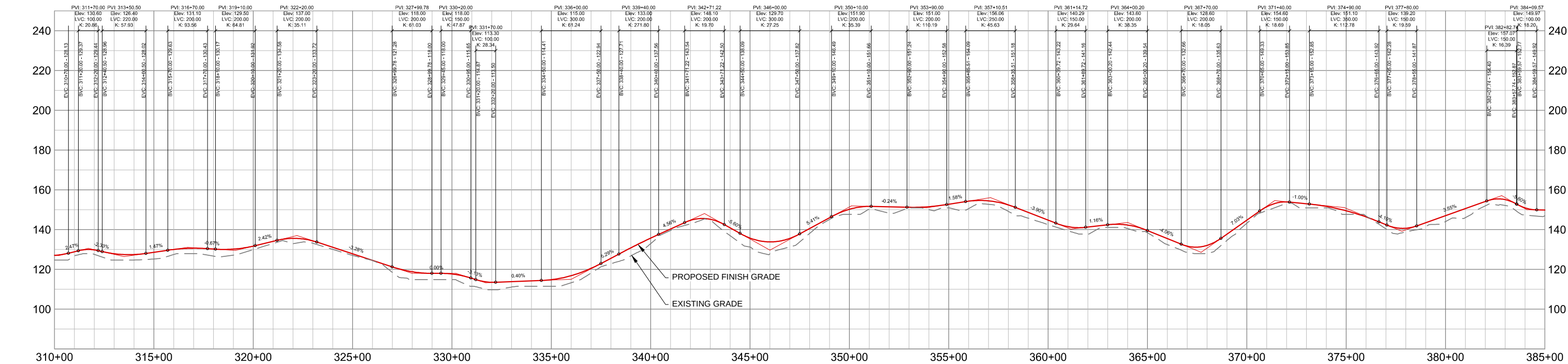
Cold Bay, Alaska

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DATE: October 2011

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FILE: PNP SHEETS.DWG

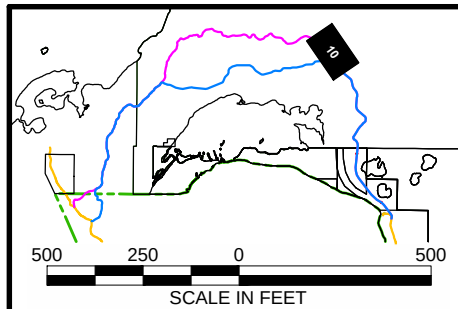
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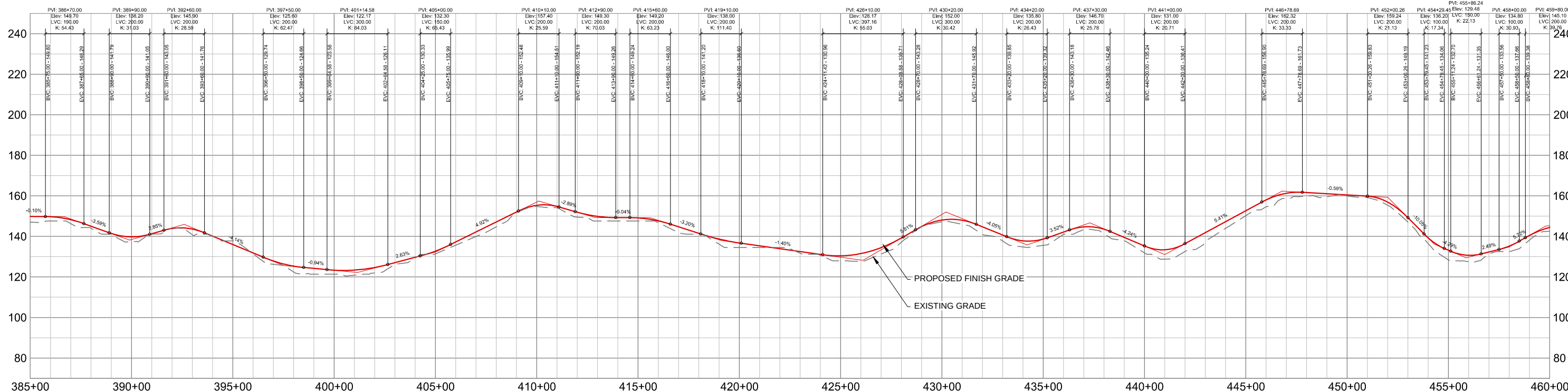
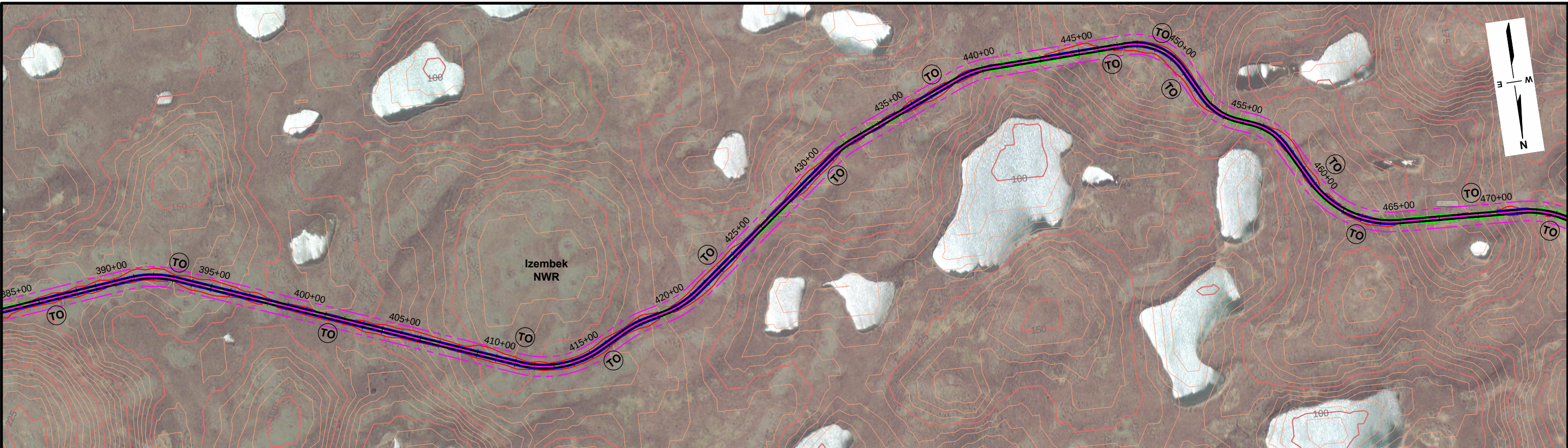
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 - CENTRAL ISTHMUS 100' RIGHT-OF-WAY
 - SOUTHERN ISTHMUS ALIGNMENT
 - SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
 - NWR BOUNDARY
 - DESIGNATED WILDERNESS BOUNDARY

- DITCH LINE
- DAYLIGHT LINE - CUT
- DAYLIGHT LINE - FILL
- APPROX TURNOUT STATION



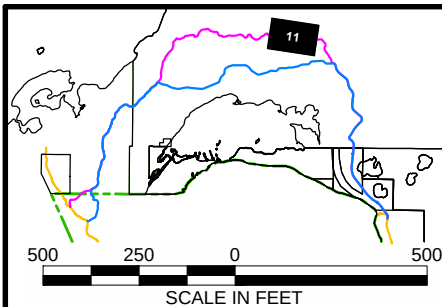
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FIGURE X-10	

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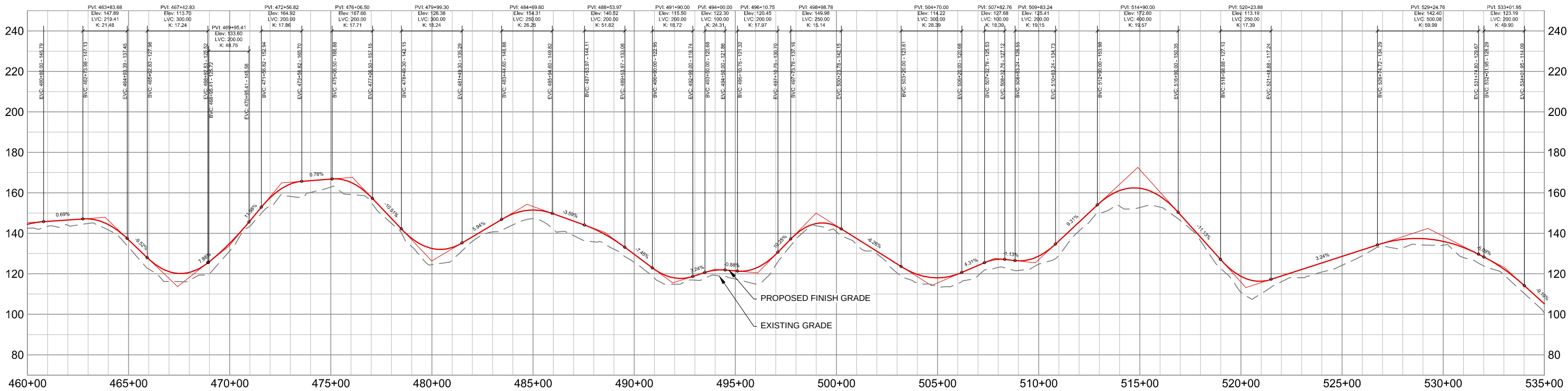
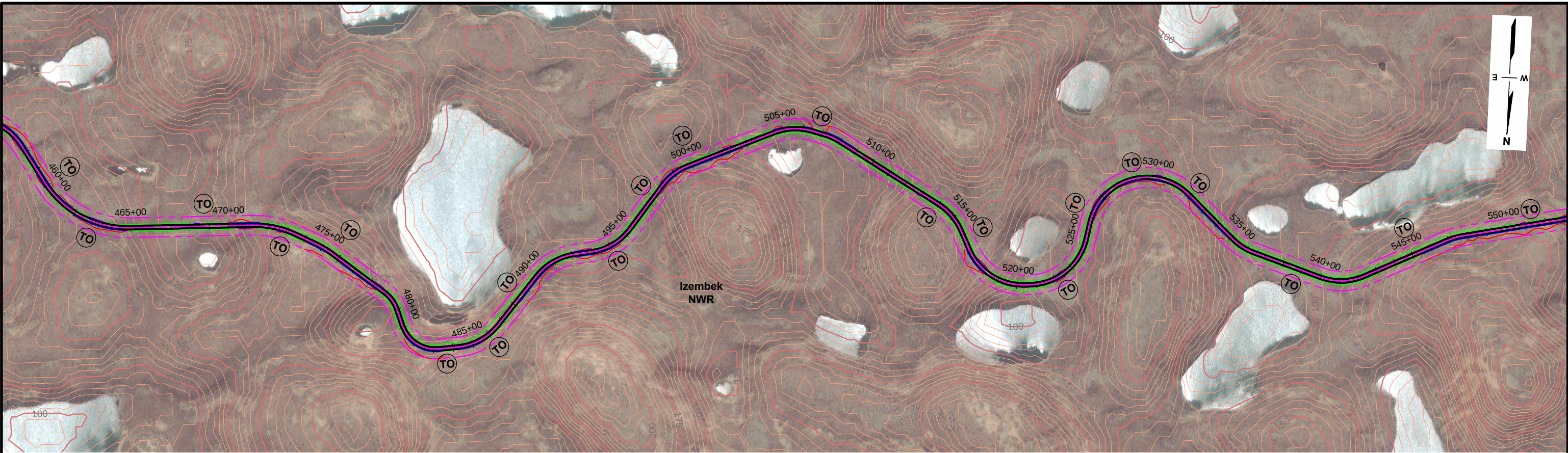
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- CENTRAL ISTHMUS ALIGNMENT
 - CENTRAL ISTHMUS 100' RIGHT-OF-WAY
 - SOUTHERN ISTHMUS ALIGNMENT
 - SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
 - NWR BOUNDARY
 - DESIGNATED WILDERNESS BOUNDARY

- DITCH LINE
- DAYLIGHT LINE - CUT
- DAYLIGHT LINE - FILL
- APPROX TURNOUT STATION



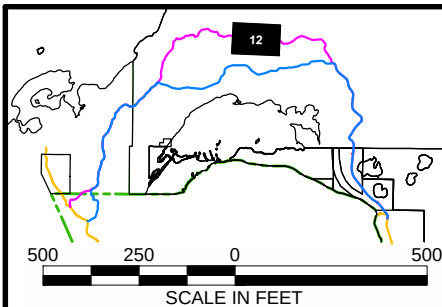
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Cold Bay, Alaska	
JOB NO: 26220860	DRAWN: ELK
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FIGURE X-11	

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LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
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- DITCH LINE
- DAYLIGHT LINE - CUT
- DAYLIGHT LINE - FILL
- APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

PLAN AND PROFILE
STA 460+00 to 535+00 (CENTRAL)

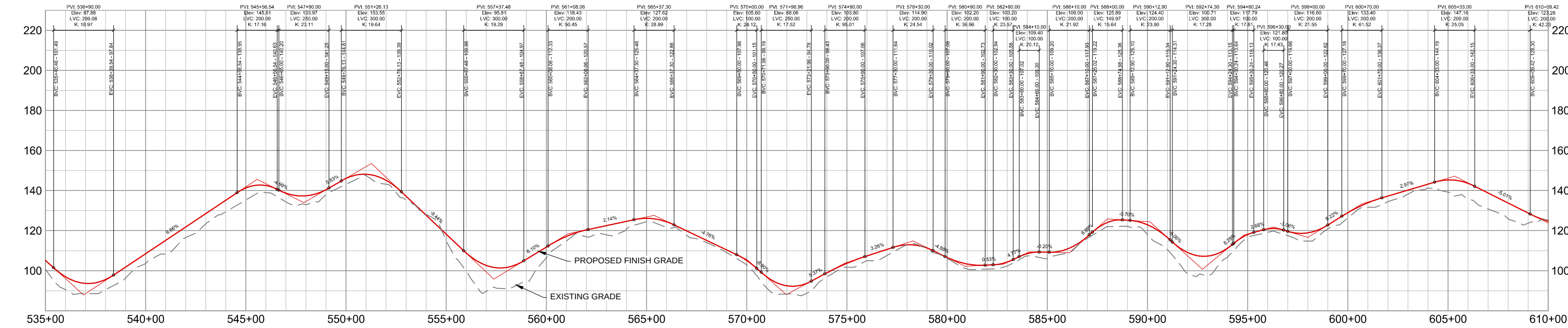
Cold Bay, Alaska

JOB NO: 26220860
DATE: October 2011

DRAWN: ELK
FILE: PNP SHEETS.DWG

FIGURE X-12

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LEGEND

CENTRAL ISTHMUS ALIGNMENT

CENTRAL ISTHMUS 100' RIGHT-OF-WAY

SOUTHERN ISTHMUS ALIGNMENT

SOUTHERN ISTHMUS 100' RIGHT-OF-WAY

NWR BOUNDARY

DESIGNATED WILDERNESS BOUNDARY

DITCH LINE

DAYLIGHT LINE - CUT

DAYLIGHT LINE - FILL

APPROX TURNOUT STATION

U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

PLAN AND PROFILE
STA 535+00 to 610+00 (CENTRAL)

Cold Bay, Alaska

JOB NO: 26220860

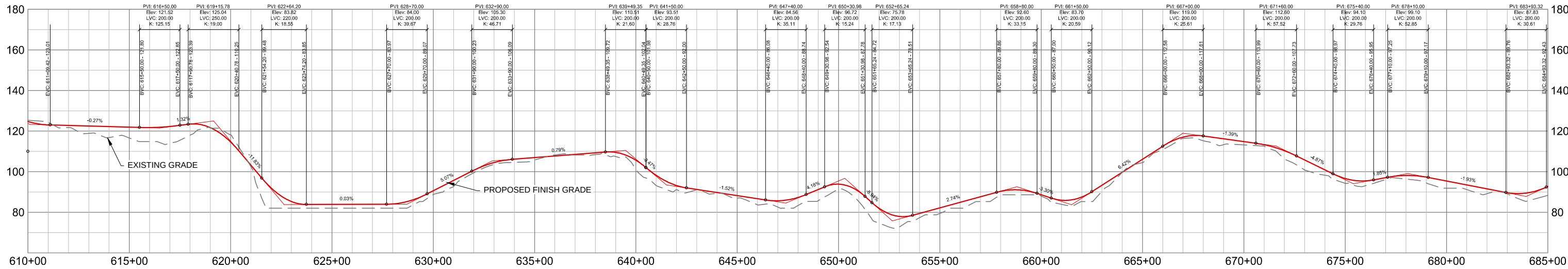
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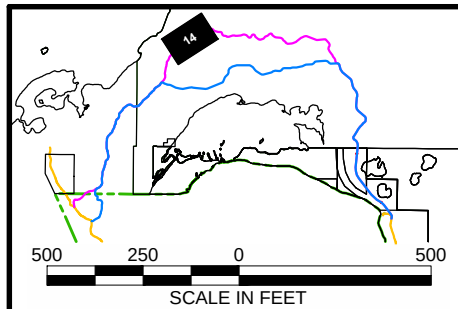
FIGURE X-13

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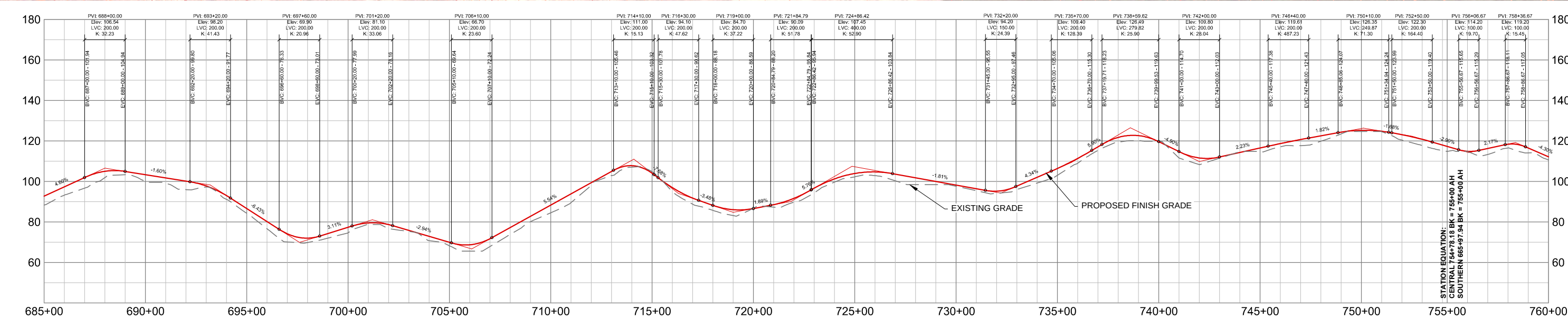
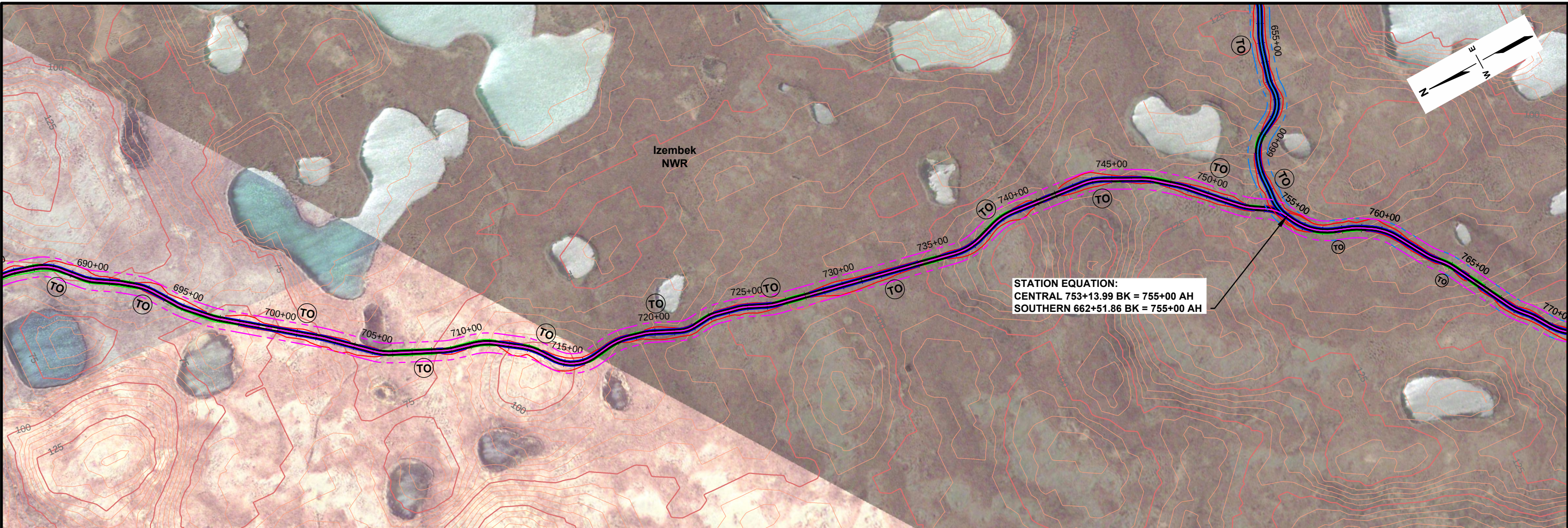
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



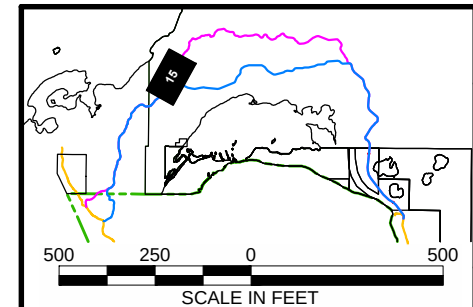
U.S. Fish and Wildlife Service Izembek Land Exchange EIS		
PLAN AND PROFILE STA 610+00 to 685+00 (CENTRAL)		
Cold Bay, Alaska		
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DATE: October 2011	FILE: PNP SHEETS.DWG	

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LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- DITCH LINE
- DAYLIGHT LINE - CUT
- DAYLIGHT LINE - FILL
- APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

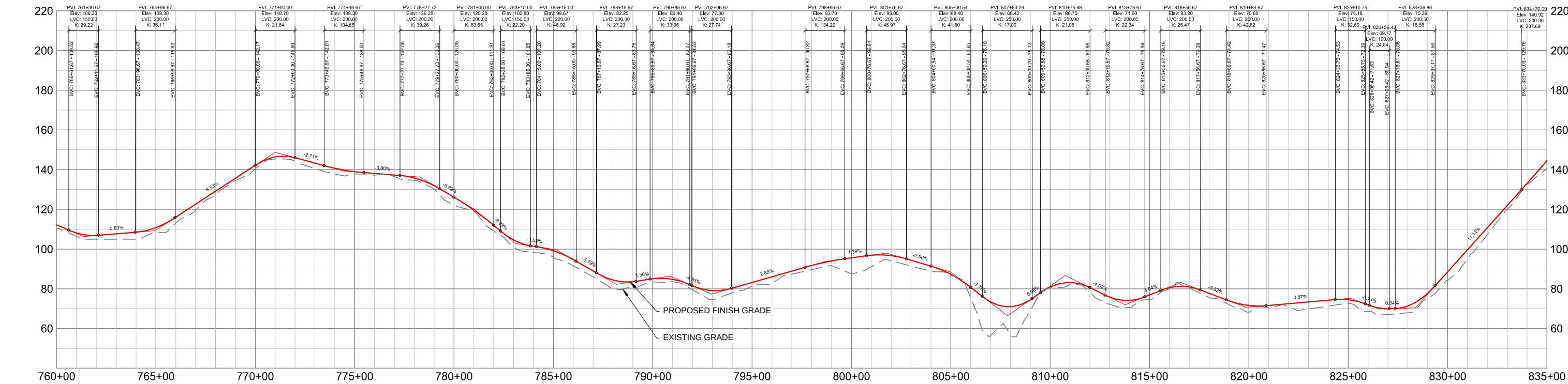
PLAN AND PROFILE
STA 685+00 to 760+00 (CENTRAL)
STA 755+00 to 760+00 (SOUTHERN)

Cold Bay, Alaska

JOB NO: 26220860	DRAWN: ELK
DATE: October 2011	FILE: PNP SHEETS.DWG

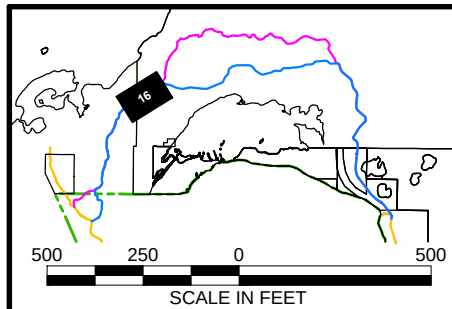
FIGURE X-15

G:\PROJECTS\26220860 IZEMBЕК EIS\401 WORKING DRAWINGS\ROAD DESIGN\PNP SHEETS.DWG ; Revised 10/6/2011 8:46:36 AM



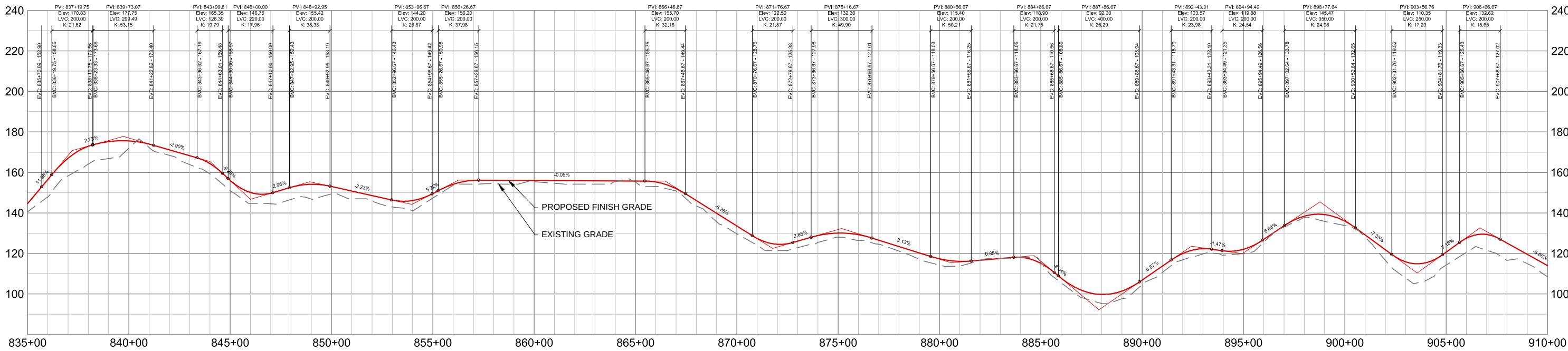
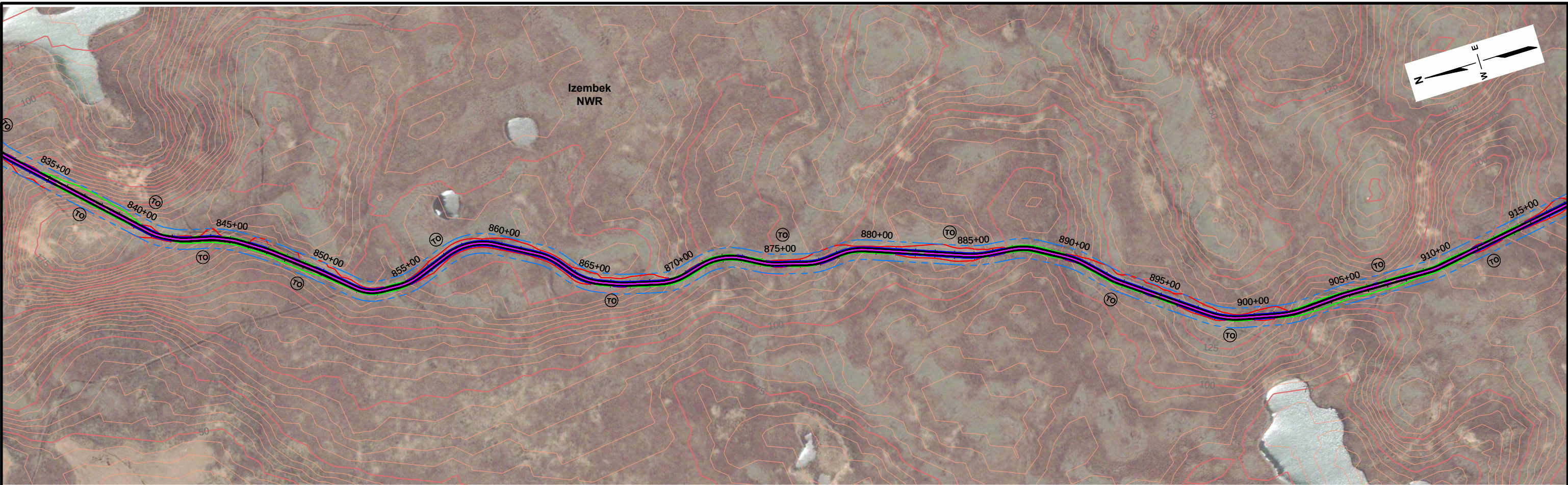
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



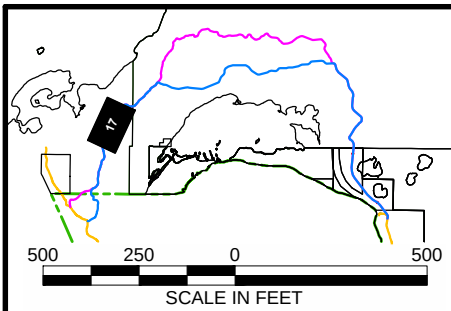
U.S. Fish and Wildlife Service Izembek Land Exchange EIS		
PLAN AND PROFILE STA 760+00 to 835+00 (CENTRAL) STA 760+00 to 835+00 (SOUTHERN)		
Cold Bay, Alaska		
JOB NO: 26220860	DRAWN: ELK	FIGURE X-16
DATE: October 2011	FILE: PNP SHEETS.DWG	

G:\PROJECTS\26220860 IZEMBЕК EIS\401 WORKING DRAWINGS\ROAD DESIGN\PNP SHEETS.DWG ; Revised 10/6/2011 8:20:05 AM



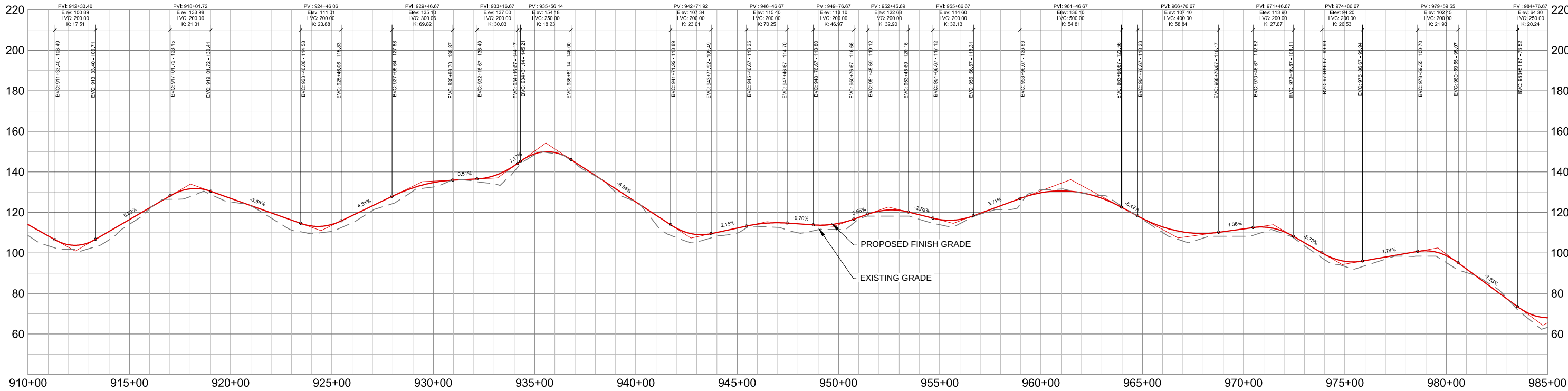
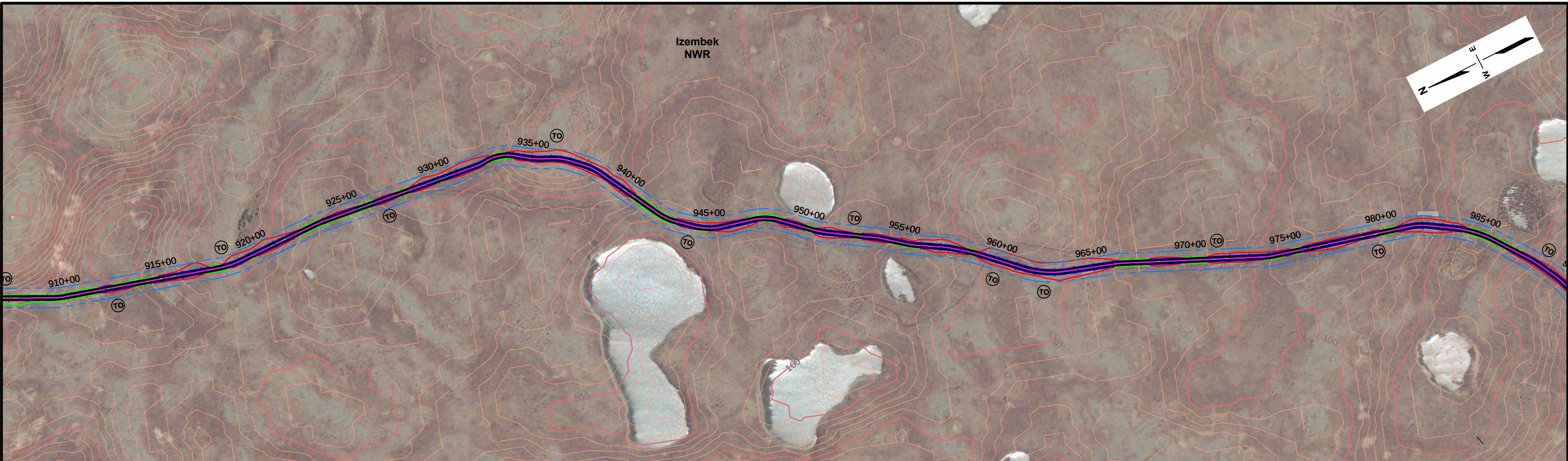
LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



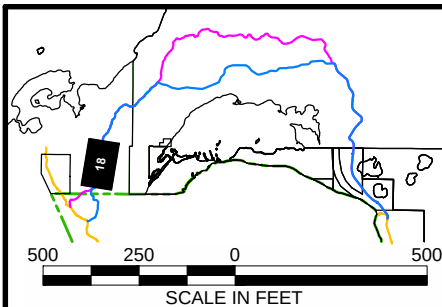
U.S. Fish and Wildlife Service Izembek Land Exchange EIS		
PLAN AND PROFILE STA 835+00 to 910+00 (CENTRAL) STA 835+00 to 910+00 (SOUTHERN)		
Cold Bay, Alaska		
JOB NO: 26220860	DRAWN: ELK	FIGURE X-17
DATE: October 2011	FILE: PNP SHEETS.DWG	

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LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- DITCH LINE
- DAYLIGHT LINE - CUT
- DAYLIGHT LINE - FILL
- APPROX TURNOUT STATION



U.S. Fish and Wildlife Service
Izembek Land Exchange EIS

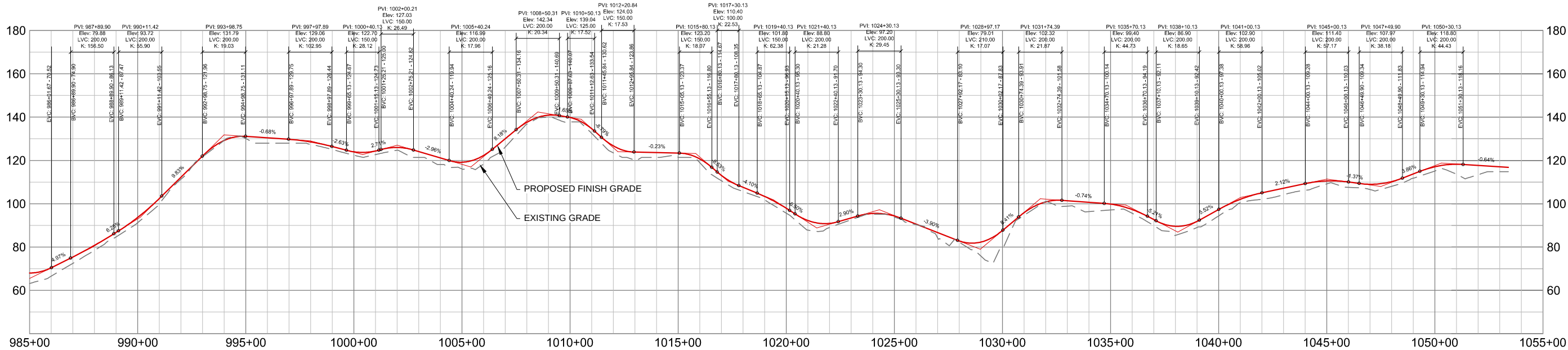
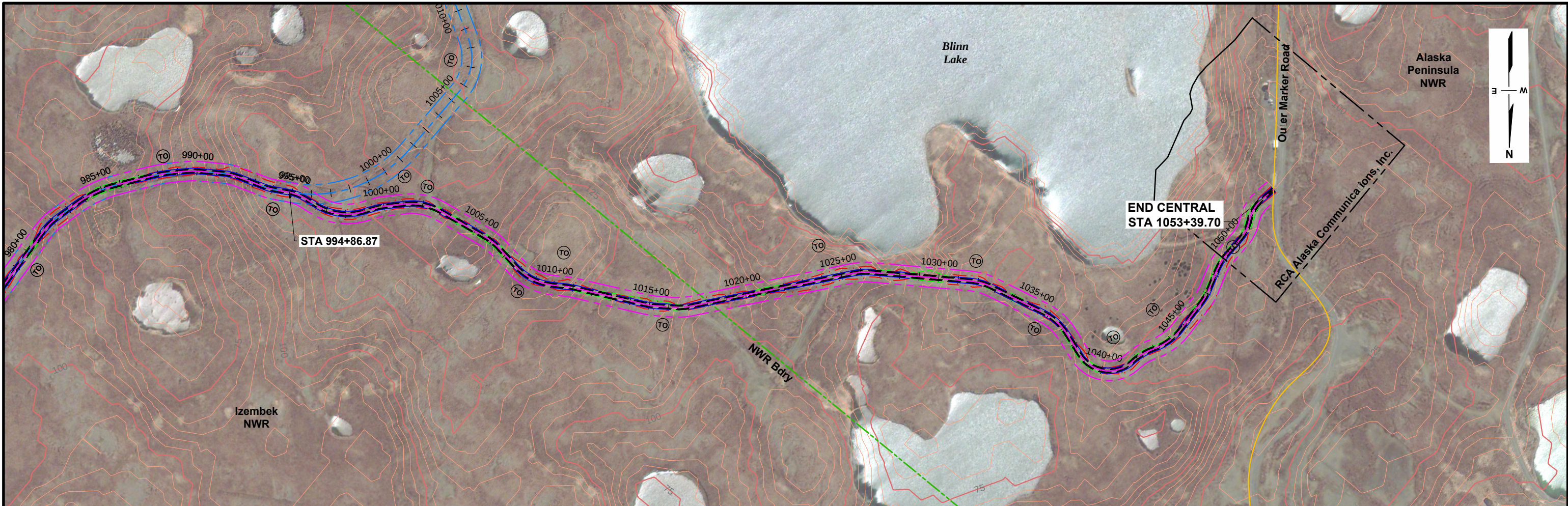
PLAN AND PROFILE
STA 910+00 to 985+00 (CENTRAL)
STA 910+00 to 985+00 (SOUTHERN)

Cold Bay, Alaska

JOB NO: 26220860	DRAWN: ELK
DATE: October 2011	FILE: PNP SHEETS.DWG

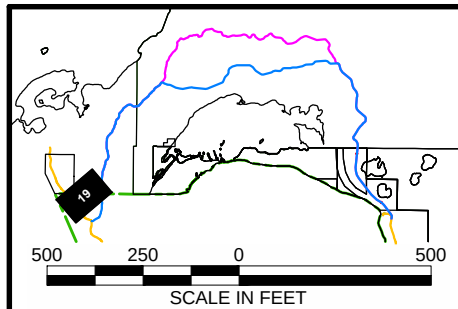
FIGURE X-18

G:\PROJECTS\26220860 IZEMBEEK EIS\401 WORKING DRAWINGS\ROAD DESIGN\PNP SHEETS.DWG ; Revised 9/27/2012 1:40:27 PM



LEGEND

- CENTRAL ISTHMUS ALIGNMENT
- CENTRAL ISTHMUS 100' RIGHT-OF-WAY
- SOUTHERN ISTHMUS ALIGNMENT
- SOUTHERN ISTHMUS 100' RIGHT-OF-WAY
- NWR BOUNDARY
- DESIGNATED WILDERNESS BOUNDARY
- - - DITCH LINE
- - - DAYLIGHT LINE - CUT
- - - DAYLIGHT LINE - FILL
- (TO) APPROX TURNOUT STATION



**U.S. Fish and Wildlife Service
Izembek Land Exchange EIS**

**PLAN AND PROFILE
STA 985+00 to 1053+39.70
(CENTRAL)**

Cold Bay, Alaska

JOB NO: 26220860

DRAWN: ELK

DATE: October 2011

FILE: PNP SHEETS.DWG

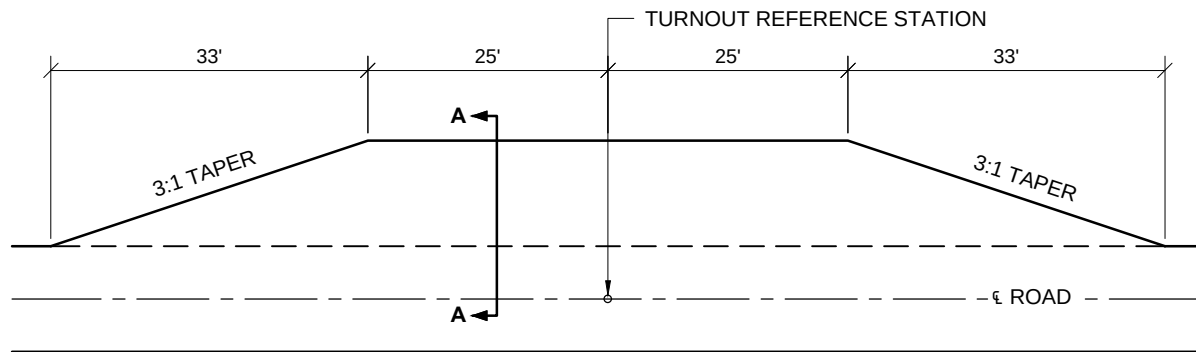
FIGURE X-19

G:\PROJECTS\26220860 IZEMBЕК EIS\401 WORKING DRAWINGS\ROAD DESIGN\PNP SHEETS.DWG ; Revised 10/6/2011 10:22:35 AM

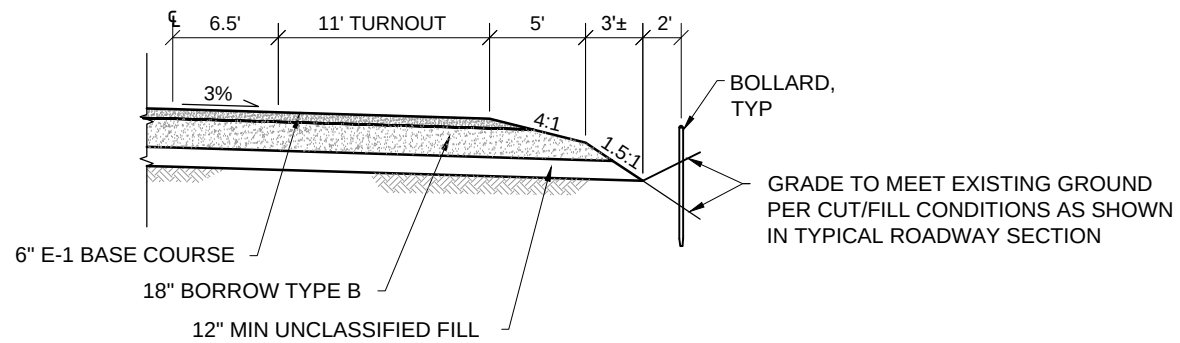
TURNOUT LOCATIONS- CENTRAL ALTERNATIVE					
STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
16+30	L	401+40	R	701+20	L
21+90	L	410+40	L	707+60	R
30+90	R	415+70	R	714+00	L
37+50	L	423+10	L	720+20	L
46+00	R	430+50	R	726+30	L
54+00	L	437+60	L	732+50	R
60+20	R	446+60	R	738+70	L
67+60	L	449+00	L	744+40	R
74+00	R	451+20	R	750+10	L
83+00	L	459+80	L	757+90	L
88+20	R	463+10	R	764+00	R
93+00	L	469+00	L	771+00	L
102+00	L	473+00	R	778+25	R
111+00	R	475+80	L	786+00	L
118+70	L	483+75	R	793+70	R
127+70	R	486+00	R	801+60	L
136+70	L	489+00	R	805+20	R
139+70	R	494+10	R	811+20	R
148+00	L	498+50	L	816+60	R
157+00	R	500+10	L	824+80	R
164+50	L	506+50	??	831+00	L
172+20	R	513+90	R	837+20	R
179+70	L	515+80	L	840+40	L
186+70	L	522+00	R	843+60	R
191+10	R	526+00	L	849+00	R
200+10	L	529+00	L	857+10	L
209+10	R	532+00	L	866+10	R
218+10	L	538+80	R	875+10	L
227+10	R	545+30	L	884+10	L
234+70	L	551+40	L	892+70	R
239+70	R	560+40	R	898+80	R
246+60	L	565+00	R	906+80	L
252+00	R	569+90	L	912+50	R
259+60	L	578+00	R	918+15	L
266+40	L	582+00	R	927+00	R
275+40	R	585+00	R	935+70	L
284+30	L	588+30	R	944+10	R
287+20	R	590+10	R	952+50	L
296+20	L	596+10	R	960+00	R
303+90	R	601+20	R	962+50	R
312+50	L	605+00	R	971+30	L
321+50	R	612+10	R	979+50	R
325+00	R	619+50	R	988+50	L
327+00	L	626+40	L	994+15	R
335+50	R	633+40	R	1002+00	L
342+80	L	639+30	R	1008+50	R
350+20	R	644+60	R	1010+50	L
356+90	L	650+00	L	1015+70	R
364+00	R	658+60	R	1024+20	L
371+60	L	667+20	R	1031+80	??
375+90	R	671+80	R	1035+70	R
382+60	L	679+50	L	1041+00	L
386+70	R	688+50	R	1044+70	L
393+10	L	693+00	R	1050+30	L

TURNOUT LOCATIONS- SOUTHERN ALTERNATIVE					
STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
16+30	R	411+80	R	866+10	R
21+90	L	419+60	L	875+10	L
30+90	R	427+00	R	884+10	L
37+50	L	436+00	R	892+70	R
46+00	R	442+25	R	898+80	R
54+00	L	447+50	L	906+80	L
60+20	R	455+60	R	912+50	R
67+60	L	461+80	L	918+15	L
74+00	R	469+70	R	927+00	R
83+00	L	476+40	R	935+70	L
88+20	R	481+80	R	944+10	R
93+00	L	488+80	L	952+50	L
102+00	L	496+40	R	960+00	R
111+00	R	505+40	L	962+50	R
118+70	L	511+50	R	971+30	L
127+70	R	517+85	L	979+50	R
136+70	L	526+85	R	988+50	L
139+70	R	532+70	L	994+15	R
148+00	L	541+70	R	1000+70	R
157+00	R	551+40	R	1007+00	L
164+50	L	557+80	L	1016+00	R
172+20	R	565+50	L	1025+00	L
179+70	L	574+00	R	1029+25	L
186+70	L	577+10	R	1034+00	R
191+10	R	584+50	L	1038+30	L
200+10	L	593+50	R	1046+20	R
209+10	R	597+60	R	1051+50	L
218+10	L	606+10	L		
227+10	R	615+10	L		
234+70	L	622+60	R		
239+70	R	630+15	L		
246+60	L	636+50	L		
252+00	R	642+90	R		
259+60	L	649+40	L		
266+40	L	655+00	R		
275+40	R	662+80	L		
284+30	L	STA EQ	R		
287+20	R	757+90	L		
296+20	L	764+00	R		
303+90	R	771+00	L		
312+50	L	778+25	R		
321+50	R	786+00	L		
325+00	R	793+70	R		
327+00	L	801+60	L		
335+50	R	805+20	R		
344+50	L	811+20	R		
352+20	R	816+60	R		
358+20	L	824+80	R		
364+70	R	831+00	L		
372+50	L	837+20	R		
381+20	R	840+40	L		
390+20	L	843+60	R		
396+40	R	849+00	R		
405+40	L	857+10	L		

U.S. Fish and Wildlife Service Izembek Land Exchange EIS	
TURNOUT LOCATION TABLES	
Cold Bay, Alaska	
JOB NO: 26220860	DRAWN: ELK
DATE: October 2011	FILE: PNP SHEETS.DWG
FIGURE X-21	



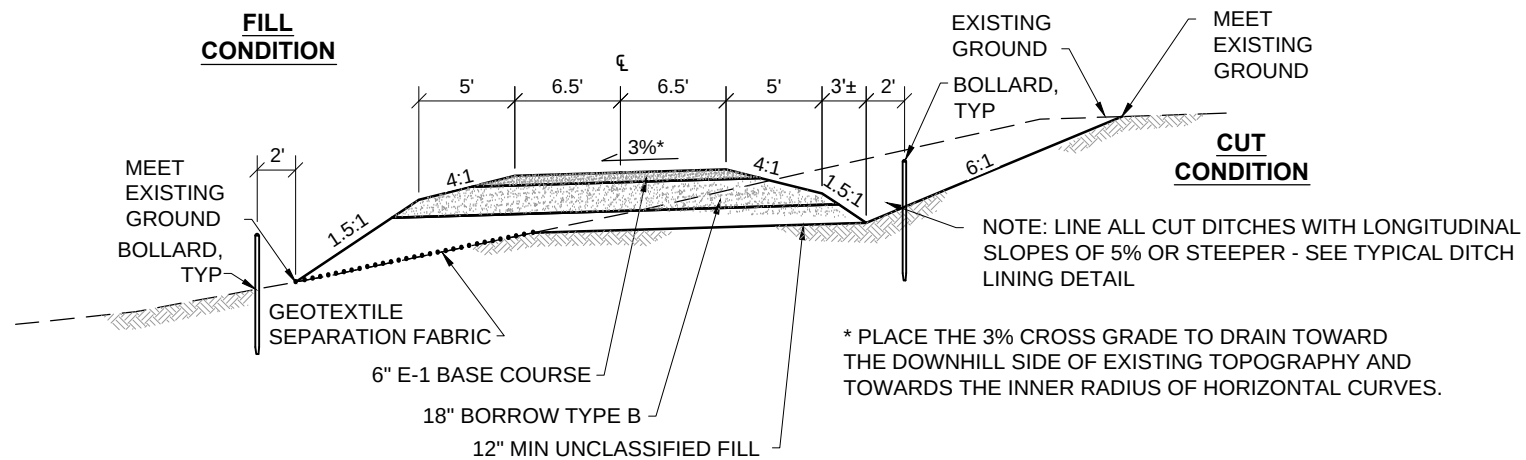
PLAN VIEW



SECTION VIEW A-A

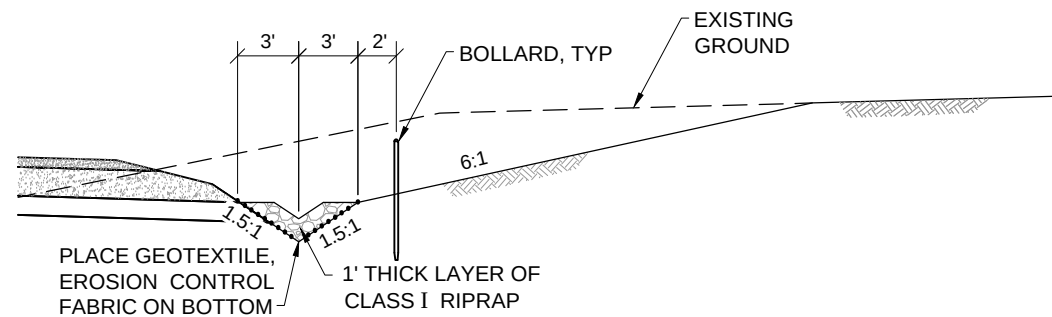
TYPICAL ROADWAY TURNOUT DETAIL

NOT TO SCALE
(MIRROR ABOUT CENTERLINE FOR LEFT OR RIGHT TURNOUT)



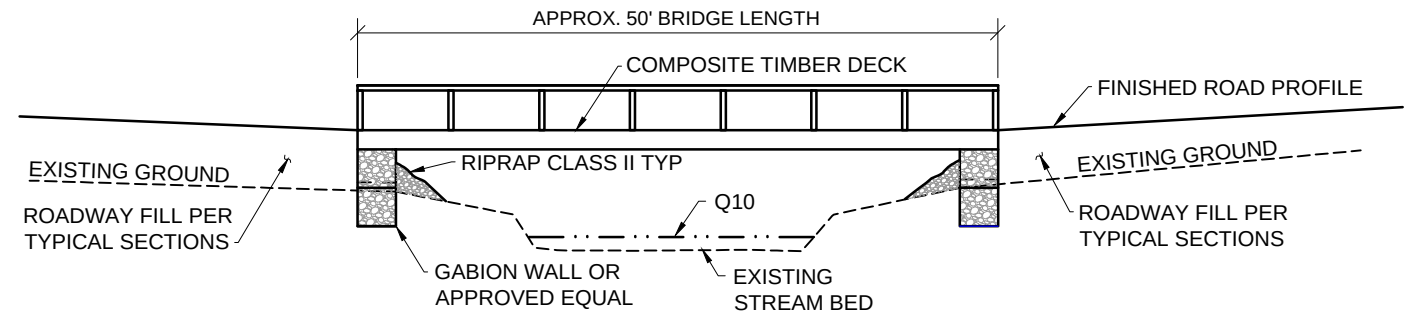
TYPICAL ROADWAY SECTION

NOT TO SCALE



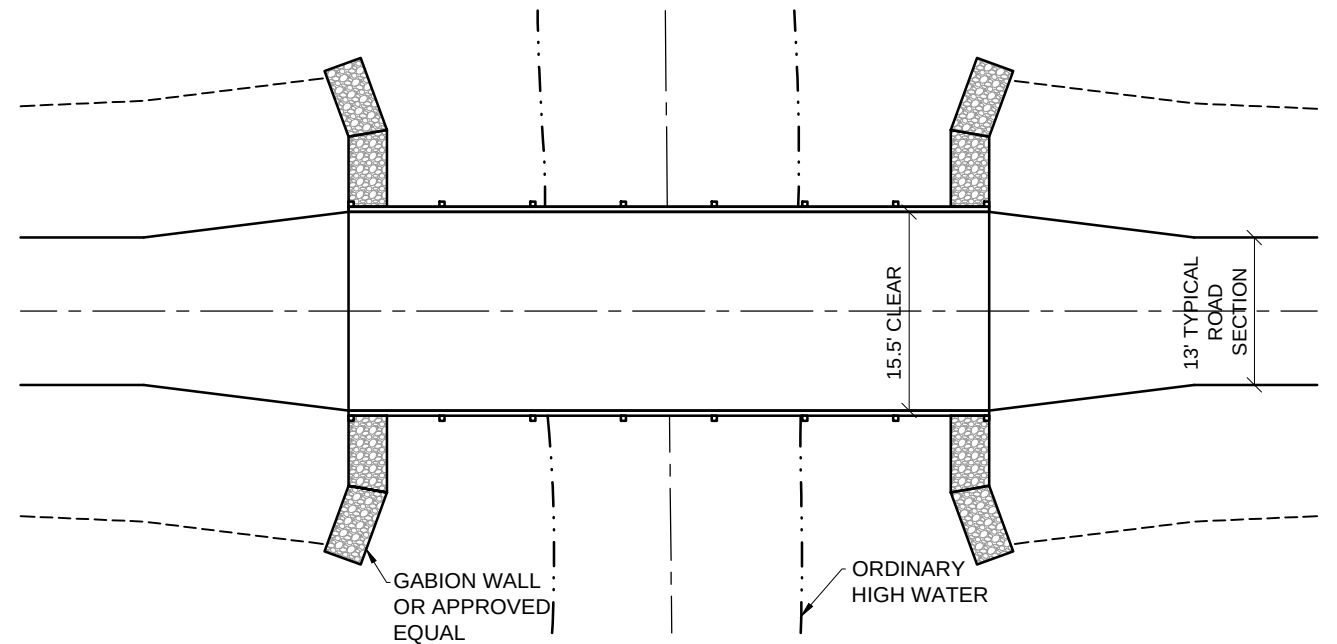
TYPICAL DITCH LINING DETAIL

NOT TO SCALE



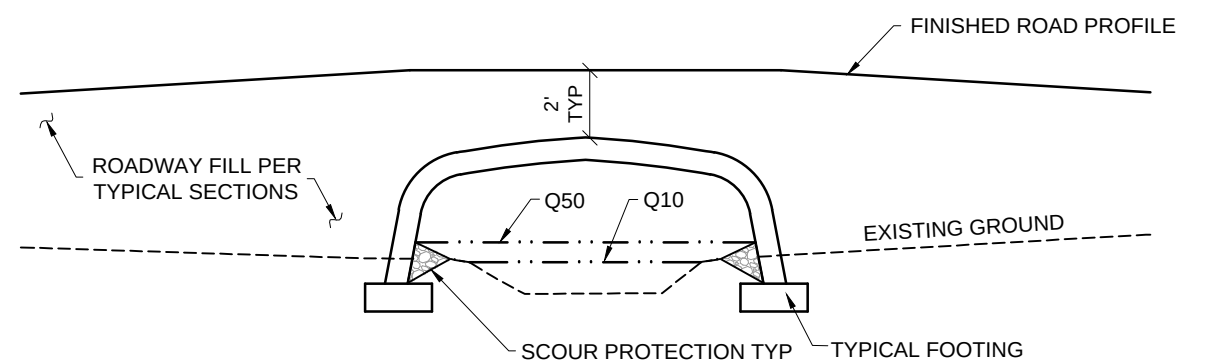
TYPICAL BRIDGE PROFILE

NOT TO SCALE



TYPICAL BRIDGE PLAN

NOT TO SCALE



TYPICAL BOX CULVERT

NOT TO SCALE

**U.S. Fish and Wildlife Service
Izembek Land Exchange EIS**

TYPICAL DETAILS

Cold Bay, Alaska

JOB NO: 26220860 DRAWN: ELK
DATE: September 2011 FILE: TYPICAL DETAILS.DWG

FIGURE X-22

**U.S. Department of Interior
U.S. Fish & Wildlife Service**

**<http://www.fws.gov>
<http://izembek.fws.gov/eis.htm>**

**Federal Relay
1 800/877 8339 Voice and TTY**

February 2013

