VIRGINIA DEPARTMENT OF TRANSPORTATION

LOCATION AND DESIGN DIVISION

INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: ALIGNMENT DATA	NUMBER: IIM-LD-185.3
SPECIFIC SUBJECT:	DATE: DECEMBER 1, 2005
	SUPERSEDES: IIM-LD-185.2
DIVISION ADMINISTRATOR APPROVAL: Mohammad Mirshahi, P.E. State L&D Engineer Approved: December 1, 2005	

Changes are shaded.

CURRENT REVISION

- Updated for current Division Administrator Approval.

EFFECTIVE DATE

- This memorandum is effective upon receipt.

POLICY AND PROCEDURE

Horizontal Alignment and Vertical Control Data

- A Survey Alignment Data Sheet containing the project horizontal survey alignment and vertical controls, along with corresponding reference data, is furnished along with the project survey plan sheets by the Survey Section (See attached example). The Survey Alignment Data Sheet eliminates the need to show reference points and bench marks on the plan and profile sheets.

- A Horizontal Construction Alignment Data Sheet, plotted from the alignment data files, will be utilized on all projects.

- The sheet(s) will be made a part of the plan assembly in accordance with the guidelines contained in the Road Design Manual (Preparation of Supplemental Sheets – Index, Section 2D-9).

- The Survey Alignment Data as furnished by the Survey Section will accompany any requests for additional survey.

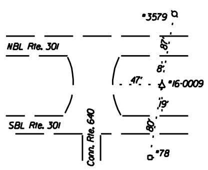
- Projects not requiring Alignment Data include No Plan, Landscape, Signal, Maintenance and projects without surveys.

#DGN# #REF001 #REF002 #REF003 #REF004 #REF005 #REF006
#DGNLEV #LEV001 #LEV002 #LEV003 #LEV004 #LEV005 #LEV006

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated 8-18-88

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		207	6207 - 016 - 107,C - 502	IG



Virginia Dept. of Transportation Horizontal Control

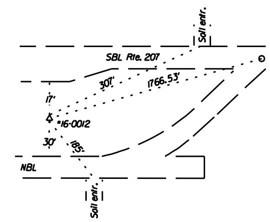
Control ID no.16-0009 — Project no.6207-016-107.C502
Route 207 — City/County Caroline
Established by J. A. Stout — Year 1988
Vertical datum based on USC&GS 1929 — Elev 218.68'
Horizontal datum based on GPS

Va.State Plane Coordinates NAD 1983 Metric Values _ Zone
X (East)
Y (North)

Va. Dept. Trans. Project Coordinates
X (East) 3.615.104.576
Y (North) 132.804.768

Azimuth to Station 16-0010 Is 2.412.92' 349°13'15"

Detailed description: A standard disk set in concrete stamped 16-0009. To reach the monument from the Courthouse in Bowling Green, proceed south on Rte. 2 for 1.8 mi. to the intersection with Rte. 640. The monument is located on the left in the median of the highway, 47' south of the crossover.



Virginia Dept. of Transportation Horizontal Control

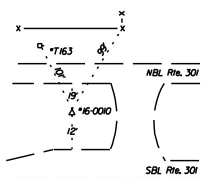
Route 207 — Control ID no.16-0012
Established by J. A. Stout — City/County Caroline
Vertical datum based on USC&GS 1929 — Elev 124.54' — Year 1988
Horizontal datum based on GPS

Va.State Plane Coordinates NAD 1983 Metric Values _ Zone
X (East)
Y (North)

Va. Dept. Trans. Project Coordinates
X (East) 3.606.518.596
Y (North) 136.430.456

Azimuth to Station 16-0011 Is 1439.05' 97°24'59"

Detailed description: A standard disk set in concrete stamped 16-0012. To reach the monument from the Courthouse in Bowling Green, proceed north on Rte. 2 for 0.4 mi. to the int. with Rte. 207. Turn left and proceed west for 1.75 mi to the monument on the left, set in the median of the highway.



Virginia Dept. of Transportation Horizontal Control

Control ID no.16-0010
Route 207 — City/County Caroline
Established by J. A. Stout — Year 1988
Vertical datum based on USC&GS 1929 — Elev 211.46'
Horizontal datum based on GPS

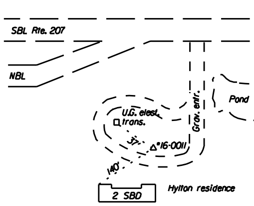
Va.State Plane Coordinates NAD 1983 Metric Values _ Zone
X (East)
Y (North)

Va. Dept. Trans. Project Coordinates
X (East) 3.614.653.301
Y (North) 135.175.117

Azimuth to Station 16-0009 Is 2.412.92' 169°13'15"

Detailed description: A standard disk set in concrete stamped 16-0010. To reach the monument from the Courthouse in Bowling Green, proceed south on Rte. 2 for 1.4 mi. to the monument on the left, set in the median of the highway.

BENCH MARK REFERENCE:	Levels based on U.S.C.&G.S.,1929 datum	
B.M.Description:	B.M.Location:	Elev.:
RR spike in base 12" pine	75' Lt. 578+40 Sur. SBL 297 BL	160.67'
Corner of 1st conc.step to 1.5 SFD	275' Lt. 589+15 Sur. SBL 207 BL	180.88'
3 nails in base 12" twin oak	85' Lt. 599+80 Sur. SBL 207 BL	192.43'
3 nails in base 18" twin oak	65' Lt. 605+75 Sur. SBL 207 BL	149.99'
3 nails 3' up in side 12" gum	90' Lt. 610+75 Sur. SBL 207 BL	194.68'
Conc. monument on PL corner Old Mansion Property	70' Lt. 618+45 Sur. SBL 207 BL	205.59'
3 nails in base 18" poplar	125' Lt. 627+15 Sur. SBL 207 BL	174.98'
Iron pin on PL corner Old Mansion Property	85' Lt. 632+40 Sur. SBL 207 BL	201.07'
3 nails in base 18" hickory	65' Lt. 636+20 Sur. SBL 207 BL	194.89'
3 nails in base 8" wild cherry on fence	65' Lt. 646+65 Sur. SBL 207 BL	208.79'
Chiseled [] on stone step	35' Lt. 57+13 Sur. NBL 301	213.26'
Chiseled X on headwall of pipe under Rte. 301	162' Lt. 654+90 Sur. SBL 207 BL	180.59'
R/W mon. on fence	80' Lt. 664+00 Sur. SBL 207 BL	210.40'
Nail with flagging in conc. slab entr. to frame shed	100' Lt. 665+80 Sur. SBL 207	205.56'



Virginia Dept. of Transportation Horizontal Control

Control ID no.16-0011
Route 207 — City/County Caroline
Established by J. A. Stout — Year 1988
Vertical datum based on USC&GS 1929 — Elev 167.32'
Horizontal datum based on GPS

Va.State Plane Coordinates NAD 1983 Metric Values _ Zone
X (East)
Y (North)

Va. Dept. Trans. Project Coordinates
X (East) 3.607.945.611
Y (North) 136.244.704

Azimuth to Station 16-0012 Is 1439.05' 277°24'59"

Detailed description: A standard disk set in concrete stamped 16-0011. To reach the monument from the Courthouse in Bowling Green, proceed north on Rte. 2 for 0.4 mi. to the int. with Rte. 207. Turn left and proceed west 1.45 mi. to a gravel entrance leading south. Turn left and proceed 0.5 mi. to a 2 SFD. The monument is in a circular grassy area created by the gravel entrance.

SURVEYED BY
SUPERVISED BY
DESIGNED BY
CADD OPERATOR
REVISED BY

PLAN — NOTE BOOK — NO.

#TIME#STAMP#

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A	6207 - 016 - 107		IG

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated 8-18-88

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		207	6207 - 016 - 107,C - 502	IH

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
	SBL RTE 207			
SS	560+00.000		136,487.383	3,606,523.804
		N 50°47'53" E		
PC	577+26.045		137,578.339	3,607,861.356
PI	588+27.241		138,274.356	3,608,714.698
	Δ = 59°56'03" Rt.	D = 3.0000	T =	1,101.196'
	L = 1,997.806'		R =	1,909.859'
PT	597+23.850		137,884.532	3,609,744.585
		S 69°16'04" E		
PC	597+23.848		137,884.533	3,609,744.582
PI	600+32.541		137,775.255	3,610,033.286
	Δ = 27°15'23" Rt.	D = 4.5000	T =	308.693'
	L = 605.698'		R =	1,273.240'
PT	603+29.545		137,545.893	3,610,239.887
		S 42°00'41" E		
PC	603+79.519		137,508.762	3,610,273.333
PI	614+21.360		136,734.661	3,610,970.615
	Δ = 78°35'03" Lt.	D = 4.5000	T =	1,041.841'
	L = 1,746.316'		R =	1,273.240'
PT	621+25.834		137,264.932	3,611,867.412
		N 59°24'16" E		
PC	647+38.669		138,594.799	3,614,116.492
PI	653+63.330		138,912.736	3,614,654.188
	Δ = 52°15'57" Lt.	D = 4.5000	T =	624.661'
	L = 1,161.464'		R =	1,273.240'
PT	659+00.132		139,532.555	3,614,731.815
		N 7°08'19" E		
BK	668+99.130		140,523.809	3,614,855.961
		N 7°08'19" E		
PC	660+00.004		140,523.809	3,614,855.961
PI	662+51.002		140,772.861	3,614,887.152
	Δ = 12°30'00" Lt.	D = 2.5000	T =	250.998'
	L = 500.000'		R =	2,291.831'
PT	665+00.004		141,022.758	3,614,863.700
		N 5°21'41" W		
PI	665+00.000		141,022.754	3,614,863.700
	SBL RTE 301 (L/R 643+87.79 SBL 207)			
SS	55+66.520		139,600.240	3,613,575.801
		S 13°11'57" E		
PC	55+66.526		139,600.234	3,613,575.802
PI	57+50.009		139,421.598	3,613,617.698
	Δ = 5°30'00" Rt.	D = 1.5000	T =	183.483'
	L = 366.666'		R =	3,819.719'
PT	59+33.192		139,239.787	3,613,642.277
		S 7°41'57" E		
PC	59+62.726		139,210.520	3,613,646.233
PI	61+46.203		139,028.697	3,613,670.814
	Δ = 5°30'00" Lt.	D = 1.5000	T =	183.477'
	L = 366.666'		R =	3,819.719'
PT	63+29.392		138,850.072	3,613,712.707
		S 13°11'57" E		
AH	63+28.120		138,850.072	3,613,712.707
		S 13°11'57" E		
PI	80+00.000		137,222.360	3,614,094.459
	NBL RTE 301 (L/R 644+33.90 SBL 207)			
SS	55+50.490		139,617.226	3,613,577.980
		S 13°11'57" E		
PI	80+49.800		137,183.942	3,614,148.664
	CONN RTE 1234 - JEFF.DRIVE (L/R 650+71.29 POC SBL DES RTE 207)			
SS	10+00.000		138,892.678	3,614,262.203
		S 48°36'57" E		
PC	10+75.002		138,843.094	3,614,318.477
PI	12+75.000		138,710.875	3,614,468.534
	Δ = 49°34'13" Lt.	D = 13.2283	T =	199.998'
	L = 374.728'		R =	433.130'
PT	14+49.731		138,739.352	3,614,666.494
		N 81°48'50" E		
PI	17+00.000		138,774.987	3,614,914.213

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
	FRONTAGE ROAD A (RT 573+46.70 SBL 207)			
SS	8+89.900		137,338.574	3,607,567.394
		S 25°36'33" E		
PC	10+14.704		137,226.030	3,607,621.338
PI	10+90.000		137,158.131	3,607,653.883
	Δ = 92°52'00" Lt.	D = 79.9997	T =	75.296'
	L = 116.084'		R =	71.620'
PT	11+30.788		137,194.031	3,607,720.070
		N 61°31'27" E		
PC	12+86.210		137,268.135	3,607,856.689
PI	13+82.706		137,314.143	3,607,941.511
	Δ = 7°42'30" Rt.	D = 4.0000	T =	96.496'
	L = 192.709'		R =	1,432.394'
PT	14+78.919		137,348.361	3,608,031.744
		N 69°13'57" E		
PC	17+91.186		137,459.084	3,608,323.723
PI	19+15.354		137,503.111	3,608,439.823
	Δ = 9°54'30" Rt.	D = 4.0000	T =	124.168'
	L = 247.708'		R =	1,432.394'
PT	20+38.895		137,526.502	3,608,561.759
		N 79°08'27" E		
PI	23+28.290		137,581.023	3,608,845.973
	FRONTAGE ROAD B (LT 71+85.00 NBL 301)			
SS	10+00.000		138,025.896	3,613,951.199
		N 76°48'03" E		
PC	10+13.000		138,028.864	3,613,963.856
PI	10+88.000		138,045.989	3,614,036.874
	Δ = 90°00'00" Lt.	D = 76.3944	T =	75.000'
	L = 117.810'		R =	75.000'
PT	11+30.810		138,119.008	3,614,019.749
		N 13°11'57" W		
PC	11+30.810		138,119.009	3,614,019.749
PI	13+15.580		138,298.898	3,613,977.559
	Δ = 72°36'13" Rt.	D = 22.7801	T =	184.770'
	L = 318.715'		R =	251.517'
PT	14+49.526		138,392.941	3,614,136.606
		N 59°24'16" E		
PC	15+31.997		138,434.916	3,614,207.596
PI	22+49.890		138,800.305	3,614,825.545
	Δ = 52°27'12" Lt.	D = 3.9318	T =	717.893'
	L = 1,334.078'		R =	1,457.239'
PT	28+66.075		139,512.922	3,614,912.426
		N 6°57'04" E		
PC	30+07.482		139,653.290	3,614,929.539
PI	31+00.007		139,745.135	3,614,940.737
	Δ = 3°41'58" Lt.	D = 2.0000	T =	92.525'
	L = 184.974'		R =	2,864.789'
PT	31+92.454		139,837.497	3,614,945.984
		N 3°15'06" E		
PC	33+28.668		139,973.492	3,614,953.710
PI	35+64.913		140,209.357	3,614,967.110
	Δ = 9°25'42" Rt.	D = 2.0000	T =	236.245'
	L = 471.418'		R =	2,864.789'
PT	38+00.085		140,439.834	3,615,018.966
		N 12°40'48" E		
PI	39+00.000		140,537.312	3,615,040.898
	OFF REV RAMP RTE 301 (LT 61+02.00 NBL RTE 301)			
SS	10+00.000		139,080.286	3,613,703.910
		N 76°48'03" E		
PC	12+58.836		139,139.388	3,613,955.908
PI	15+56.180		139,207.283	3,614,245.397
	Δ = 45°05'37" Rt.	D = 8.0000	T =	297.344'
	L = 563.670'		R =	716.197'
PT	18+22.506		139,050.179	3,614,497.849
		S 58°06'20" E		
AH	18+27.900		139,050.179	3,614,497.849
		S 58°06'20" E		
PI	19+72.700		138,973.673	3,614,620.788

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
	NBL DESIGN RTE 207 [31003199]			
SS	560+00.000		136,422.290	3,606,576.897
		N 50°47'53" E		
PC	569+58.413		137,028.061	3,607,319.594
PI	574+76.756		137,355.683	3,607,721.270
	Δ = 20°30'43" Rt.	D = 2.0000	T =	518.343'
	L = 1,025.597'		R =	2,864.789'
PT	579+84.011		137,521.787	3,608,212.285
		N 71°18'36" E		
PC	587+13.077		137,755.415	3,608,902.905
PI	595+50.690		138,023.826	3,609,696.347
	Δ = 66°40'43" Rt.	D = 4.5000	T =	837.613'
	L = 1,481.748'		R =	1,273.240'
PT	601+94.824		137,401.470	3,610,256.943
		S 42°00'41" E		
PC	601+94.829		137,401.466	3,610,256.947
PI	612+36.670		136,627.366	3,610,954.228
	Δ = 78°35'03" Lt.	D = 4.5000	T =	1,041.841'
	L = 1,746.316'		R =	1,273.240'
PT	619+41.144		137,157.636	3,611,851.025
		N 59°24'16" E		
BK	620+09.870		137,192.616	3,611,910.183
		N 59°24'16" E		
AH	621+25.830		137,192.616	3,611,910.183
		N 59°24'16" E		
PC	647+38.668		138,522.485	3,614,159.266
PI	654+04.540		138,861.397	3,614,732.436
	Δ = 52°15'57" Lt.	D = 4.2215	T =	665.872'
	L = 1,238.089'		R =	1,357.240'
PT	659+76.757		139,522.107	3,614,815.184
		N 7°08'19" E		
AH	659+00.130		139,522.107	3,614,815.184
		N 7°08'19" E		
BK	668+99.130		140,513.363	3,614,939.330
		N 7°08'19" E		
PC	660+95.819		140,513.363	3,614,939.330
PI	663+48.864		140,764.446	3,614,970.776
	Δ = 12°09'32" Lt.	D = 2.4116	T =	253.045'
	L = 504.181'		R =	2,375.831'
PT	666+00.000		141,016.513	3,614,948.633
		N 5°01'13" W		
PI	666+00.000		141,016.513	3,614,948.633
	CONN RTE 207 (LT 584+51.97 POC 1967 SURVEY RTE 207 NBL)			
SS	9+04.160		137,634.953	3,608,665.819
		N 19°45'15" W		
PC	13+56.299		138,060.484	3,608,513.003
PI	14+80.281		138,177.169	3,608,471.099
	Δ = 44°54'28" Rt.	D = 19.0986	T =	123.982'
	L = 235.136'		R =	300.000'
PT	15+91.435		138,289.394	3,608,523.797
		N 25°09'13" E		
BK	17+21.210		138,406.862	3,608,578.957
		N 25°09'13" E		
AH	588+33.710		138,406.862	3,608,578.957
		N 25°09'13" E		
PI	590+12.500		138,568.697	3,608,654.951
	D/T L/R 592+50.00 POC 1967 SUR 207 SBL (586+83.95 DESIGN SBL 207)			
SS	18+00.000		138,191.579	3,609,326.433
		S 11°53'00" W		
PI	21+50.000		137,849.080	3,609,254.361
		S 4°26'00" E		
PI	23+65.820		137,633.906	3,609,271.044
		S 37°17'30" W		
PI	24+94.530		137,531.509	3,609,193.062
		N 71°22'30" W		
PI	28+24.750		137,636.972	3,608,880.136
		N 82°20'30" W		
PI	30+14.450		137,662.253	3,608,692.128

SUPERVISED BY R.W. Boote (804)786-5166
DESIGNED BY M. Hubard 804-371-4760
CADD OPERATOR $$DESIGN$$FILE$$SPECIFICATION$$
REVISED BY

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RIGHT OF WAY CHECKED		

$TIME$$STAMP$

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A	6207 - 016 - 107		IH

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated 8-18-88

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		207	6207 - 016 - 107,C - 502	11

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
	D/T RT OF STA 30+14.45 D/T L/R 586+83.95 SBL DES (592+50.00 POC 1967)			
SS	18+00.000		138,254.014	3,608,752.339
		S 6°19'12" W		
PI	22+50.000		137,806.749	3,608,702.802
		S 4°13'30" W		
PI	23+94.890		137,662.253	3,608,692.128
		S 40°53'30" W		
PI	25+89.450		137,515.175	3,608,564.763
		S 0°53'30" W		
PI	27+00.000		137,404.639	3,608,563.043
		S 21°00'30" E		
PI	27+50.000		137,357.962	3,608,580.968
	D/T L/R 602+13.63 DES SBL 207 (601+72.00 1967 SURVEY RTE 207 SBL)			
SS	17+00.000		138,025.457	3,610,179.757
		S 3°03'55" W		
PI	21+25.000		137,601.065	3,610,157.031
		S 19°52'05" E		
PI	22+13.060		137,518.247	3,610,186.958
		S 39°21'05" E		
PI	23+76.940		137,391.523	3,610,290.871
	STM TR LR 605+03.78 POC SBL DES 207 (L/R 607+10.39 1967 SUR RTE 207 SBL)			
SS	15+00.000		137,973.379	3,610,813.191
		S 3°11'23" W		
PI	16+55.900		137,817.721	3,610,804.516
		S 11°03'23" W		
PI	18+92.000		137,586.003	3,610,759.238
		S 67°27'23" W		
PI	26+15.090		137,308.780	3,610,091.401
		S 21°47'23" W		
PI	28+50.000		137,090.654	3,610,004.202
	D/T LT 21+89.21 STR TR 605+03.78 POC DES SBL (L/R 607+10.39 1967 SUR)			
SS	10+00.000		137,472.056	3,610,484.739
		S 36°59'37" E		
PI	11+51.950		137,350.693	3,610,576.171
		S 56°04'23" W		
PI	13+62.040		137,233.434	3,610,401.849
		N 45°26'07" W		
PI	14+57.990		137,300.764	3,610,333.489
		N 51°29'37" W		
PI	15+72.460		137,372.033	3,610,243.912
	D/T R/L 627+14.83 POT SBL DES 207 (R/L 623+85.48 1967 SUR RTE 207 SBL)			
SS	14+00.000		137,348.193	3,612,574.823
		N 58°06'35" W		
PI	16+32.110		137,470.815	3,612,377.747
		N 2°02'05" W		
PI	18+50.530		137,689.098	3,612,369.992
		N 35°52'35" W		
PI	22+72.090		138,030.681	3,612,122.942
		N 24°52'35" W		
PI	24+00.000		138,146.723	3,612,069.135
	D/T L/R 635+90.84 SBL POT DES 207 (L/R 629+66.64 1967 SUR RTE 207 NBL)			
SS	16+00.000		138,550.152	3,612,852.821
		S 10°14'05" E		
PI	19+50.000		138,205.721	3,612,915.009
		S 47°34'05" E		
PI	23+07.530		137,964.491	3,613,178.895
	D/T L/R 638+25.22 SBL DES 207 (L/R 636+28.41 1967 SUR RTE 207 SBL)			
SS	15+00.000		138,993.839	3,613,231.869
		S 1°41'25" W		
PI	18+50.000		138,643.991	3,613,221.545
		S 27°38'35" E		
PI	22+10.470		138,324.667	3,613,388.790
		S 7°03'25" W		
PI	23+24.770		138,211.233	3,613,374.747
		S 28°41'55" W		

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
PI	25+50.000		138,013.671	3,613,266.591
		S 61°21'55" W		
PI	26+50.000		137,965.748	3,613,178.822
		S 14°51'35" E		
PI	27+18.100		137,899.926	3,613,196.286
		S 24°18'25" W		
PI	28+50.000		137,779.718	3,613,141.993
	D/T "A" RT 654+87.13 POC SBL DES 207 (RT 646+70.00 EXIST SBL BYPASS)			
SS	18+00.000		139,365.357	3,614,131.944
		S 77°57'05" E		
PI	20+35.300		139,316.240	3,614,362.061
		S 38°17'05" E		
PI	23+00.000		139,108.466	3,614,526.061
		N 71°37'55" E		
PI	25+00.000		139,171.490	3,614,715.871
		S 84°26'05" E		
PI	27+20.670		139,150.090	3,614,935.501
		N 79°51'55" E		
PI	29+00.000		139,181.645	3,615,112.033
	D/T L/R 659+26.00 EXIST SBL BYPASS			
SS	18+00.000		140,506.757	3,614,653.665
		S 73°41'05" E		
PI	20+00.000		140,450.572	3,614,845.611
		S 87°21'05" E		
PI	22+50.000		140,439.020	3,615,095.344
		N 73°38'55" E		
PI	23+50.000		140,467.173	3,615,191.299
		S 77°41'05" E		
PI	27+00.000		140,392.521	3,615,533.245
	D/T "B" R/L 24+50.00 DR.TRAV "A"			
SS	15+64.000		138,722.019	3,614,712.994
		N 5°52'05" W		
PI	20+00.000		139,155.734	3,614,668.418
	PROP RAMP "E" (LT 579+50.00 SBL SUR)			
SS	7+99.650		137,729.649	3,608,029.907
		N 57°31'01" E		
PC	7+99.666		137,729.658	3,608,029.920
PI	9+60.734		137,816.159	3,608,165.789
	Δ = 19°51'08" Lt.	D = 6.2252	T =	161.068'
	L = 318.899'		R =	920.379'
PT	11+18.565		137,943.655	3,608,264.203
		N 37°39'53" E		
PC	12+59.330		138,055.085	3,608,350.216
PI	14+69.329		138,221.320	3,608,478.534
	Δ = 12°31'00" Lt.	D = 2.9921	T =	209.999'
	L = 418.328'		R =	1,914.921'
PT	16+77.658		138,411.415	3,608,567.775
		N 25°08'53" E		
PI	16+77.670		138,411.426	3,608,567.780
	PROP ULTIMATE RAMP (LT 580+04.78 NBL SUR)			
SS	9+66.860		137,551.177	3,608,224.268
		N 71°18'36" E		
PC	11+48.730		137,609.457	3,608,396.547
PI	16+15.320		137,758.975	3,608,838.532
	Δ = 75°36'13" Lt.	D = 9.5257	T =	466.590'
	L = 793.678'		R =	601.485'
PT	19+42.409		138,224.255	3,608,803.600
		N 4°17'37" W		
PC	22+12.749		138,493.837	3,608,783.360
PI	25+13.820		138,794.063	3,608,760.820
	Δ = 29°26'30" Rt.	D = 5.0000	T =	301.071'
	L = 588.833'		R =	1,145.916'
PT	28+01.583		139,066.596	3,608,888.762
		N 25°08'53" E		
PI	28+01.590		139,066.602	3,608,888.765
	D/T L/R 593+35.35 EXIST RTE 207 [50005099]			
SS	13+50.000		138,928.487	3,608,658.308
		S 63°03'07" E		
PI	15+67.710		138,829.825	3,608,852.379
		S 3°56'18" W		
PI	18+32.750		138,565.411	3,608,834.175
		S 19°54'14" W		
PI	20+33.130		138,377.000	3,608,765.957
		S 6°19'12" W		
PI	21+56.880		138,254.002	3,608,752.334

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
	D/T L/R 596+53.84 EXIST RTE 207			
SS	9+50.000		139,402.214	3,608,881.592
		S 16°50'37" E		
PI	11+20.620		139,238.914	3,608,931.031
		S 25°59'23" W		
PI	12+01.130		139,166.545	3,608,895.751
		S 60°42'37" E		
PI	12+65.960		139,134.829	3,608,952.293
		S 10°38'37" E		
PI	14+49.350		138,954.594	3,608,986.165
		S 46°59'53" W		
PI	16+32.290		138,829.825	3,608,852.375
	D/T RT 589+00.00 EXIST RTE 207			
SS	10+00.000		138,466.426	3,608,607.016
		S 60°38'17" E		
PI	11+82.370		138,377.005	3,608,765.959

DESIGN ALIGNMENT

SBL DESIGN RTE 301/2

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
SS	55+66.52		139,600.24	3,613,575.801
		S 13°11'57" E		
PI	57+50.00		139,421.598	3,613,617.698
		S 07°41'57" E		
PI	61+46.20		139,028.697	3,613,670.814
		S 13°11'57" E		
POT	10079+99.99		137,222.360	3,614,094.459
	NBL DESIGN RTE 301/2			
SS	55+50.49		139,617.226	3,613,577.980
		S 13°11'57" E		
POT	80+49.80		137,183.942	3,614,148.664

NBL DESIGN RTE 207

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
SS	560+00.000		136,422.291	3,606,576.897
		N 50°47'53.33" E		
PI	582+86.3698		137,867.401	3,608,348.660
		S 88°43'25.14" E		
PI	596+53.301		137,835.944	3,609,760.538
		S 50°02'45.78" E		
PI	613+46.552		136,725.946	3,611,085.543
		N 59°24'16.04" E		
PI	653+50.824		138,884.005	3,614,735.269
		N 07°08'18.82" E		
POT	669+03.552		140,513.363	3,614,939.330

SBL DESIGN RTE 207

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
SS	560+00.0000		136,474.9842	3,606,533.9169
		N 49°39'08.27" E		
PI	560+50.0100		136,507.3619	3,606,572.031
		N 50°40'46.26" E		
PI	575+00.0131		137,426.1672	3,607,693.7733
		N 50°50'58.68" E		
PI	577+00.0132		137,552.4388	3,607,848.8717
		N 51°21'32.09" E		
PI	577+26.0594		137,568.7031	3,607,869.2157
		N 51°43'23.32" E		
PI	577+49.8579		137,583.4454	3,607,887.8982
		N 52°29'09.29" E		
PI	577+99.5227		137,613.6891	3,607,927.2925
		N 53°46'41.38" E		
PI	578+49.1845		137,643.0349	3,607,967.3564
		N 55°16'00.43" E		
PI	578+98.8461		137,671.3299	3,608,008.169
		N 56°46'00.29" E		
PI	579+48.5078		137,698.5469	3,608,049.7083
		N 58°15'59.89" E		
PI	579+98.1694		137,724.6673	3,608,091.9458
		N 59°46'00.30" E		
PI	580+47.8311		137,749.6730	3,608,134.8526
		N 61°21'27.72" E		
PI	580+97.6371		137,773.5470	3,608,178.5638
		N 62°40'46.67" E		
PI	581+47.1541		137,796.2736	3,608,222.5574
		N 64°15'55.32" E		
PI	581+96.8156		137,817.8368	3,608,267.2932
		N 65°46'05.31" E		
PI	582+46.4774		137,838.2195	3,608,312.5794
		N 67°16'00.46" E		

DESIGN ALIGNMENT

POINT ID.	STATION	BEARING	PROJECT COORDINATES NORTH (Y)	EAST (X)
PI	582+96.1391		137,857.4108	3,608,358.3831
		N 68°45'59.88" E		
PI	583+45.7973		137,875.3954	3,608,404.6702
		N 70°15'59.87" E		
PI	583+95.4607		137,892.1639	3,608,451.4170
		N 71°45'59.17" E		
PI	584+45.1239		137,907.7031	3,608,498.5866
		N 73°16'00.23" E		
PI	584+94.7855		137,922.0015	3,608,546.1453
		N 74°46'01.90" E		
PI	585+44.4472		137,935.0497	3,608,594.0622
		N 76°16'00.28" E		
PI	585+94.109		137,946.8395	3,608,642.3042
		N 77°46'00.24" E		
PI	586+43.7705		137,957.3624	3,608,690.8381
		N 79°16'00.40" E		
PI	586+93.4322		137,966.6112	3,608,739.6309
		N 80°46'00.28" E		
PI	587+43.0937		137,974.5796	3,608,788.6490
		N 82°16'00.44" E		
PI	595+37.6799		137,926.1934	3,609,575.976
		S 73°43'59.74" E		
PI	595+87.3416		137,912.2827	3,609,623.6496
		S 72°13'18.01" E		
PI	596+37.0031		137,897.1193	3,609,670.9395
		S 70°33'36.96" E		
PI	596+86.6628		137,880.5918	3,609,717.7682
		S 69°37'31.43" E		
PI	597+10.3498		137,872.345	3,609,739.9733
		S 67°48'58.00" E		
PI	597+36.2286		137,862.5737	3,609,763.9364
		S 66°57'57.23" E		
PI	597+85.6984		137,843.2172	3,609,809.4621
		S 64°31'50.23" E		
PI	598+35.1653		137,821.945	3,609,854.1216
		S 62°27'57.36" E		
PI	598+84.6288		137,799.0792	3,609,897.9827
		S 60°12'57.59" E		
PI	599+34.0924		137,774.5091	3,609,940.9123
		S 57°57'57.14" E		
PI	599+83.5560		137,748.2724	3,609,982.8442
		S 55°42'57.47" E		
PI	600+33.0195		137,720.4098	3,610,023.7137
		S 53°27'57.27" E		
PI	600+82.4831		137,690.9641	3,610,063.4578
		S 51°12'57.61" E		
PI	601+31.9466		137,659.9808	3,610,102.0153
		S 48°57'57.32" E		
PI	601+81.4102		137,627.5076	3,610,139.3266
		S 46°44'20.92" E		
PI	602+30.8742		137,593.6089	3,610,175.3483
		S 44°50'11.25" E		
PI	602+80.3459		137,558.5274	3,610,210.2301
		S 43°42'51.21" E		
PI	603+09.5955		137,537.3859	3,610,230.4434
		S 43°38'10.06" E		
PI	603+30.0585		137,522.5761	3,610,244.5644
		S 43°38'29.51" E		
PI	603+59.5894		137,501.2054	3,610,264.945
		S 43°31'32.30" E		
PI	603+80.2505		137,486.2247	3,610,279.1739
		S 44°33'28.65" E		
PI	604+30.669		137,450.2995	3,610,314.549
		S 46°21'53.29" E		
PI	604+81.076		137,415.5154	3,610,351.031
		S 48°03'49.39" E		
PI	605+30.9961		137,382.1536	3,610,388.166
		S 51°16'14.26" E		
PI	605+81.9079		137,350.301	3,610,427.8828
		S 53°03'28.52" E		
PI	606+32.314		137,320.0066	3,610,468.1695
		S 55°18'28.86" E		
PI	606+82.72		137,291.3173	3,610,509.6145
		S 57°47'09.33" E		
PI	607+33.4532		137,264.2722	3,610,552.538
		S 59°35'30.66" E		
PI	607+83.5249		137,238.9281	3,610,595.7219
		S 62°03'28.53" E		
PI	608+33.9309		137,215.3089	3,610,640.2517
		S 64°18'28.65" E		
POT	608+84.3369		137,193.4562	3,610,685.6744

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