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J. Eugene C. Allen
RESPONSIBLE ENGINEER/ANALYST (Printed Name and Signature)

5/16/07
DATE

Title: Engineered Plan & Profile Drawing Set Mina Rail Corridor

Supplier DI#: NRP-D-SYSW-PP-0002-00

Supplier Rev.: 00

Supplier Date: 04/23/07

NVM Nevada Transportation Manager Gene Allen
NE Nevada Engineering Scott Kelderhouse

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1. Supplier/Subcontractor Name:	Purchase Order/Subcontract No. and Title:	
Nevada Rail Partners NRP	NN-HC4-00239	
2. BSC Submittal No.:	Revision:	Title:
V0-HX00-NHC4-00239-00112-001	002	Engineered Plan & Profile Drawing Set Mina Rail Corridor

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Subcontractor:	Item Number/Title/Revision:	Submittal Date:	SRCT No.:
Nevada Rail Partners	Task 6: ~~Draft~~ Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

Section I. Submittal Information (includes above information)

Submittal Description and Revision Summary for Entire Submittal:

4-23-07

This submittal fulfills one of the commitments under Task 6 Route Alignment Definition, Exhibit "I", item number 10z, Mod 23 of the contract. "~~Draft~~ Alignment Plan and Profile Utilizing 5-foot Contour Data-Mina Rail Route: 11x17 Cut-Sheets (Engineered Plan and Profile Drawing Set) - final reference for use in DEIS; no changes to technical data - Drawing scale at 1"=2000'." This submittal includes Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6) Rev. 00. This is the Final submittal of data. The Data set of the deliverable product is as follows:

- (12) MicroStation InRoads file (*.alg). This file contains alignment data with horizontal and vertical track geometry. This file is being submitted to allow BSC instant access to the precise horizontal and vertical alignment files that NRP used to further refine the overall conceptual design.
- (90) MicroStation V8 drawing file (*.dgn). This file contains a Draft Alignment Plan and Profile Cut-Sheet Utilizing 5-foot contour data @ 1"=2000' scale. This file is being submitted to fulfill one of the commitments under Task 6 Route Alignment Definition.
- (83) Adobe Acrobat Professional files (*.pdf). Engineered Plan and Profile Cut-Sheets. These files have been submitted to allow viewing the CAD drawings, without requiring the user to have CAD software.

The data set captures the following data:

- Alignment Centerline
- Engineering stationing
- Approximate Nevada Rail Line Right of Way
- Track geometry (Horizontal and Vertical)
- Track curve data
- Major Geographical features
- Five foot contours
- Sidings
- Structures (bridges and culverts)
- General Notes
- Road Crossing Data
- Key Map
- Drawing Index
- Cut-Sheet package cover sheet

Note:
BSC provided related files for 5 foot contours and property data for BLM Corridors, WSA, NTTR, County, USFS, Private and other boundaries.

Special Instructions:

Section II. Data File Information (Add lines below if needed for additional files. Indicate "Last item" or "End of list" on last line used.)

Filename	Rev.	File Size	Description (File description and revision summary for file)	Application and Version/ Add-in or Extension and Version
NRP-D-IND1-PP-0200-00.dgn	00	46 KB	INDEX OF DRAWINGS	MicroStation V08.05.02.27/2005 Edition
NRP-D-KEY1-PP-0201-00.dgn	00	103 KB	MASTER KEY MAP	MicroStation V08.05.02.27/2005 Edition

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NRP-D-NOTE-PP-0202-00.dgn	00	54 KB	NOTES AND ABBREVIATIONS	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD01-PP-0203-00.dgn	00	97 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD02-PP-0204-00.dgn	00	94 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD03-PP-0205-00.dgn	00	66 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD04-PP-0206-00.dgn	00	206 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD05-PP-0207-00.dgn	00	90 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-CD06-PP-0208-00.dgn	00	56 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	MicroStation V08.05.02.27/2005 Edition
NRP-D-ROAD-PP-0209-00.dgn	00	158 KB	ROAD CROSSINGS TABLES	MicroStation V08.05.02.27/2005 Edition
NRP-D-STR1-PP-0210-00.dgn	00	156 KB	STRUCTURE TABLES	MicroStation V08.05.02.27/2005 Edition
NRP-D-M001-PP-0211-00.dgn	00	2237 KB	FT. CHURCHILL & WALKER LAKE SIDINGS	MicroStation V08.05.02.27/2005 Edition
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NRP-D-S102-PP-0002-00.dgn	00	1917 KB	S1 10250+00 TO 10550+00	MicroStation V08.05.02.27/2005 Edition
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NRP-D-S105-PP-0005-00.dgn	00	1001 KB	S1 11150+00 TO 11450+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-S106-PP-0006-00.dgn	00	941 KB	S1 11450+00 TO 11682+70	MicroStation V08.05.02.27/2005 Edition
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NRP-D-MC02-PP-0008-00.dgn	00	1596 KB	MCS1 1250+00 TO 1550+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC03-PP-0009-00.dgn	00	1216 KB	MCS1 1550+00 TO 1850+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC04-PP-0010-00.dgn	00	1181 KB	MCS1 1850+00 TO 2150+00	MicroStation V08.05.02.27/2005 Edition
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NRP-D-MC06-PP-0012-00.dgn	00	2027 KB	MCS1 2450+00 TO 2750+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC07-PP-0013-00.dgn	00	1308 KB	MCS1 2750 +00 TO 3050+00	MicroStation V08.05.02.27/2005 Edition

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Nevada Rail Partners	Task 6: Draft Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

NRP-D-MC08-PP-0014-00.dgn	00	2489 KB	MCS1 3050 +00 TO 3350+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC09-PP-0015-00.dgn	00	3137 KB	MCS1 3350 +00 TO 3650+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC10-PP-0016-00.dgn	00	1709 KB	MCS1 3650 +00 TO 3950+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-MC11-PP-0017-00.dgn	00	1919 KB	MCS1 3950 +00 TO 4250+00	MicroStation V08.05.02.27/2005 Edition
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NRP-D-M205-PP-0038-00.dgn	00	763 KB	MN2 5950+00 TO 6250+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-M206-PP-0039-00.dgn	00	963 KB	MN2 6250+00 TO 6550+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-M207-PP-0040-00.dgn	00	767 KB	MN2 6550+00 TO 6850+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-M208-PP-0041-00.dgn	00	554 KB	MN2 6850+00 TO 7150+00	MicroStation V08.05.02.27/2005 Edition
NRP-D-M209-PP-0042-00.dgn	00	1502 KB	MN2 7150+00 TO 7418+96	MicroStation V08.05.02.27/2005 Edition
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NRP-D-S602-PP-0062-00.dgn	00	2211 KB	S6 10250+00 TO 10550+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S603-PP-0063-00.dgn	00	2351 KB	S6 10550+00 TO 10850+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S604-PP-0064-00.dgn	00	2525 KB	S6 10850+00 TO 11150+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S605-PP-0065-00.dgn	00	3288 KB	S6 11150+00 TO 11450+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S606-PP-0066-00.dgn	00	1713 KB	S6 11450+00 TO 11750+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S607-PP-0067-00.dgn	00	609 KB	S6 11750+00 TO 12000+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S608-PP-0068-00.dgn	00	922 KB	S6 12000+00 TO 12250+00	MicroStation V08.05.02.27/2005 Edition	
NRP-D-S609-PP-0069-00.dgn	00	471 KB	S6 12250+00 TO 12357+93	MicroStation V08.05.02.27/2005 Edition	
S1_Master_2000_00.dgn	00	792 KB	Schurz 1 plan at 1"=2000' showing alignment centerline and stationing tick marks. Schurz 1 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	
MCS1_Master-2000_00.dgn	00	792 KB	Mina Common Segment 1 plan at 1"=2000' showing alignment centerline and stationing tick marks. Mina Common Segment 1 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	
MN1_Master_2000_00.dgn	00	1651 KB	Mina 1 plan at 1"=2000' showing alignment centerline and stationing tick marks. Mina 1 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	
MN2_Master_2000_00.dgn	00	595 KB	Mina 2 plan at 1"=2000' showing alignment centerline and stationing tick marks. Mina 2 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	
MN3_Master_2000_00.dgn	00	272 KB	Mina 3 plan at 1"=2000' showing alignment centerline and stationing tick marks. Mina 3 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	
S4_Master_2000_00.dgn	00	838 KB	Schurz 4 plan at 1"=2000' showing alignment centerline and stationing tick marks. Schurz 4 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition	

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S5_Master_2000_00.dgn	00	563 KB	Schurz 5 plan at 1"=2000' showing alignment centerline and stationing tick marks. Schurz 5 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition
S6_Master_2000_00.dgn	00	1349 KB	Schurz 6 plan at 1"=2000' showing alignment centerline and stationing tick marks. Schurz 6 profile at 1"=2000' horizontal and 1"=200' vertical showing top of rail profile and existing ground line.	MicroStation V08.05.02.27/2005 Edition
S1_Master_00.alg	00	24 KB	S1 Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MCS1_North_Master_00.alg	00	14 KB	MCS1 North Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MCS1_Mid_Master_00.alg	00	19 KB	MCS1 Middle Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MCS1_South_Master_00.alg	00	19 KB	MCS1 South Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MN1_North_Master_00.alg	00	30 KB	MN1-North Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MN1_South_Master_00.alg	00	20 KB	MN-South Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MN2_North_Master_00.alg	00	13 KB	MN2-North Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MN2_South_Master_00.alg	00	14 KB	MN2-South Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
MN3_Master_00.alg	00	8 KB	MN3 Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
S4_Master_00.alg	00	21 KB	S4 Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
S5_Master_00.alg	00	26 KB	S5 Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
S6_Master_00.alg	00	28 KB	S6 Alignment data with horizontal and vertical track geometry	InRoads V08.05.00.00/2004 Edition
NRP-D-SYSW-PP-0002-00.pdf	00	456 KB	COVER SHEET FOR DRAWING SET	Adobe Acrobat Professional Version 7.0
NRP-D-IND1-PP-0200-00.pdf	00	228 KB	INDEX OF DRAWINGS	Adobe Acrobat Professional Version 7.0
NRP-D-KEY1-PP-0201-00.pdf	00	130 KB	MASTER KEY MAP	Adobe Acrobat Professional Version 7.0
NRP-D-NOTE-PP-0202-00.pdf	00	183 KB	NOTES AND ABBREVIATIONS	Adobe Acrobat Professional Version 7.0
NRP-D-CD01-PP-0203-00.pdf	00	100 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0
NRP-D-CD02-PP-0204-00.pdf	00	97 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0
NRP-D-CD03-PP-0205-00.pdf	00	92 KB	BASIS FOR ANALYSIS-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0

Subcontractor:	Item Number/Title/Revision:	Submittal Date:	SRCT No.:
Nevada Rail Partners	Task 6: Draft Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

NRP-D-CD04-PP-0206-00.pdf	00	102 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0
NRP-D-CD05-PP-0207-00.pdf	00	100 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0
NRP-D-CD06-PP-0208-00.pdf	00	91 KB	ALTERNATE ALIGNMENT-HORIZONTAL CURVE DATA	Adobe Acrobat Professional Version 7.0
NRP-D-ROAD-PP-0209-00.pdf	00	93 KB	ROAD CROSSINGS TABLES	Adobe Acrobat Professional Version 7.0
NRP-D-STR1-PP-0210-00.pdf	00	93 KB	STRUCTURE TABLES	Adobe Acrobat Professional Version 7.0
NRP-D-M001-PP-0211-00.pdf	00	606 KB	FT. CHURCHILL & WALKER LAKE SIDINGS	Adobe Acrobat Professional Version 7.0
NRP-D-HAW1-PP-0212-00.pdf	00	340 KB	HAWTHORNE STAGING YARD	Adobe Acrobat Professional Version 7.0
NRP-D-S101-PP-0001-00.pdf	00	386 KB	S1 10000+00 TO 10250+00	Adobe Acrobat Professional Version 7.0
NRP-D-S102-PP-0002-00.pdf	00	455 KB	S1 10250+00 TO 10550+00	Adobe Acrobat Professional Version 7.0
NRP-D-S103-PP-0003-00.pdf	00	459 KB	S1 10550+00 TO 10850+00	Adobe Acrobat Professional Version 7.0
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NRP-D-MC01-PP-0007-00.pdf	00	385 KB	MCS1 1000+00 TO 1250+00	Adobe Acrobat Professional Version 7.0
NRP-D-MC02-PP-0008-00.pdf	00	473 KB	MCS1 1250+00 TO 1550+00	Adobe Acrobat Professional Version 7.0
NRP-D-MC03-PP-0009-00.pdf	00	364 KB	MCS1 1550+00 TO 1850+00	Adobe Acrobat Professional Version 7.0
NRP-D-MC04-PP-0010-00.pdf	00	352 KB	MCS1 1850+00 TO 2150+00	Adobe Acrobat Professional Version 7.0
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NRP-D-MC06-PP-0012-00.pdf	00	540 KB	MCS1 2450+00 TO 2750+00	Adobe Acrobat Professional Version 7.0
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NRP-D-MC10-PP-0016-00.pdf	00	498 KB	MCS1 3650 +00 TO 3950+00	Adobe Acrobat Professional Version 7.0
NRP-D-MC11-PP-0017-00.pdf	00	497 KB	MCS1 3950 +00 TO 4250+00	Adobe Acrobat Professional Version 7.0

Subcontractor:	Item Number/Title/Revision:	Submittal Date:	SRCT No.:
Nevada Rail Partners	Task 6: Draft Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

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NRP-D-MC13-PP-0019-00.pdf	00	481 KB	MCS1 4550 +00 TO 4812+14	Adobe Acrobat Professional Version 7.0
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NRP-D-M202-PP-0035-00.pdf	00	275 KB	MN2 5050+00 TO 5350+00	Adobe Acrobat Professional Version 7.0
NRP-D-M203-PP-0036-00.pdf	00	189 KB	MN2 5350+00 TO 5650+00	Adobe Acrobat Professional Version 7.0
NRP-D-M204-PP-0037-00.pdf	00	441 KB	MN2 5650+00 TO 5950+00	Adobe Acrobat Professional Version 7.0
NRP-D-M205-PP-0038-00.pdf	00	288 KB	MN2 5950+00 TO 6250+00	Adobe Acrobat Professional Version 7.0
NRP-D-M206-PP-0039-00.pdf	00	330 KB	MN2 6250+00 TO 6550+00	Adobe Acrobat Professional Version 7.0
NRP-D-M207-PP-0040-00.pdf	00	288 KB	MN2 6550+00 TO 6850+00	Adobe Acrobat Professional Version 7.0
NRP-D-M208-PP-0041-00.pdf	00	237 KB	MN2 6850+00 TO 7150+00	Adobe Acrobat Professional Version 7.0

Subcontractor:	Item Number/Title/Revision:	Submittal Date:	SRCT No.:
Nevada Rail Partners	Task 6: Draft Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

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NRP-D-S502-PP-0054-00.pdf	00	702 KB	S5 10250+00 TO 10550+00	Adobe Acrobat Professional Version 7.0
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NRP-D-S505-PP-0057-00.pdf	00	530 KB	S5 11150+00 TO 11450+00	Adobe Acrobat Professional Version 7.0
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NRP-D-S508-PP-0060-00.pdf	00	277 KB	S5 12050+00 TO 12324+97	Adobe Acrobat Professional Version 7.0
NRP-D-S601-PP-0061-00.pdf	00	433 KB	S6 10000+00 TO 10250+00	Adobe Acrobat Professional Version 7.0
NRP-D-S602-PP-0062-00.pdf	00	684 KB	S6 10250+00 TO 10550+00	Adobe Acrobat Professional Version 7.0
NRP-D-S603-PP-0063-00.pdf	00	746 KB	S6 10550+00 TO 10850+00	Adobe Acrobat Professional Version 7.0
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NRP-D-S605-PP-0065-00.pdf	00	996 KB	S6 11150+00 TO 11450+00	Adobe Acrobat Professional Version 7.0

Transportation Data Pedigree Form

Complete only applicable items.

Subcontractor:	Item Number/Title/Revision:	Submittal Date:	SRCT No.:
Nevada Rail Partners	Task 6: Draft Alignment Plan and Profile Utilizing 5- Foot Contour Data-Mina Rail Route, Schurz 1 (S1), Mina Common Segment 1 (MCS1), Mina Segment 1 (MN1), Mina Segment 2 (MN2), Mina Segment 3 (MN3), Schurz Alternate 4 (S4), Schurz Alternate 5 (S5) & Schurz Alternate 6 (S6), ALG, DGN, PDF Files. Rev. 00	April 23, 2007	07-00057

NRP-D-S606-PP-0066-00.pdf	00	538 KB	S6 11450+00 TO 11750+00	Adobe Acrobat Professional Version 7.0
NRP-D-S607-PP-0067-00.pdf	00	225 KB	S6 11750+00 TO 12000+00	Adobe Acrobat Professional Version 7.0
NRP-D-S608-PP-0068-00.pdf	00	326 KB	S6 12000+00 TO 12250+00	Adobe Acrobat Professional Version 7.0
NRP-D-S609-PP-0069-00.pdf	00	193 KB	S6 12250+00 TO 12357+93	Adobe Acrobat Professional Version 7.0
			----------Last Item----------Last Item----------	

Section III. Metadata

☐ **GIS Metadata** All GIS data is preferred in ArcGIS9.1 UTM, NAD1983, Zone11, Feet.	Projection:
	Datum:
	Zone:
	Units:
☒ **CAD Metadata** CAD drawings are preferred in **Bentley MicroStation V8 and/or InRoads** and should adhere to Established **CAD standards**.	Level descriptions: Level descriptions are as defined in the Nevada Rail Line Preliminary Engineering Design Project CAD Standards and Procedures Manual Level Convention for MicroStation V8
	Scale: 1:1 Real Size; 1"=2000' plot scale
	Units of Measurement: Feet
	Horizontal and Vertical Datum: NAD 83 / UTM Zone 11

Section IV. Data Screening (Completed by BSC personnel)

Suitable for Review?	Screener Name:	Signature:	Date:
☒ Yes* ☐ No	Cathy Stettler	Cathy Stettler	4/23/07

*If "Yes", Data Storage Location: nt\data\NRP\Task 6 Route Alignment Definition\07-00057 Route

Comments: *(Justification for rejecting submittal is **required**; other comments are optional.)*
Align Def Mina S1_MCS1_MN1_MN2_MN3_S4-S6 Rev 00 04-23-07

Section V. STR Disposition of Submittal

Process for Review?	** If "No", date returned:	Comments:	
☒ Yes ☐ No**			
STR Name: Gene Allen		Signature: 4/24/07	Date: 4/24/07

Engineered Plan & Profile Drawing Set
Mina Rail Corridor

Task 6: Route Alignment Definition
Rev. 00

Document No. NRP-D-SYSW-PP-0002-00

11" X 17" Cut Sheets

Segments MCS1, S-1, S-4, S-5, S-6, MN1, MN2 & MN3

Prepared by:

Prepared for:

Nevada Rail Line Conceptual Design

Subcontract NN-HC4-00239

23 April 2007

U.S. DEPARTMENT OF ENERGY
OFFICE OF NATIONAL TRANSPORTATION

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ROUTE ALIGNMENT DEFINITION
MINA RAIL CORRIDOR

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HAWTHORNE STAGING YARD	- SHEET 1 OF 1

BASIS FOR ANALYSIS

S1	- STATION 10000+00	TO 10250+00	- SHEET 1 OF 69
S1	- STATION 10250+00	TO 10550+00	- SHEET 2 OF 69
S1	- STATION 10550+00	TO 10850+00	- SHEET 3 OF 69
S1	- STATION 10850+00	TO 11150+00	- SHEET 4 OF 69
S1	- STATION 11150+00	TO 11450+00	- SHEET 5 OF 69
S1	- STATION 11450+00	TO 11682+70	- SHEET 6 OF 69
MCS1	- STATION 1000+00	TO 1250+00	- SHEET 7 OF 69
MCS1	- STATION 1250+00	TO 1550+00	- SHEET 8 OF 69
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MCS1	- STATION 1850+00	TO 2150+00	- SHEET 10 OF 69
MCS1	- STATION 2150+00	TO 2450+00	- SHEET 11 OF 69
MCS1	- STATION 2450+00	TO 2750+00	- SHEET 12 OF 69
MCS1	- STATION 2750+00	TO 3050+00	- SHEET 13 OF 69
MCS1	- STATION 3050+00	TO 3350+00	- SHEET 14 OF 69
MCS1	- STATION 3350+00	TO 3650+00	- SHEET 15 OF 69
MCS1	- STATION 3650+00	TO 3950+00	- SHEET 16 OF 69
MCS1	- STATION 3950+00	TO 4250+00	- SHEET 17 OF 69
MCS1	- STATION 4250+00	TO 4550+00	- SHEET 18 OF 69
MCS1	- STATION 4550+00	TO 4812+14	- SHEET 19 OF 69
MN1	- STATION 4809+29	TO 5050+00	- SHEET 20 OF 69
MN1	- STATION 5050+00	TO 5350+00	- SHEET 21 OF 69
MN1	- STATION 5350+00	TO 5650+00	- SHEET 22 OF 69
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MN1	- STATION 6200+00	TO 6500+00	- SHEET 25 OF 69
MN1	- STATION 6500+00	TO 6800+00	- SHEET 26 OF 69
MN1/MN3	- STATION 6800+00	TO 7100+00	- SHEET 27 OF 69
MN1/MN3	- STATION 7100+00	TO 7400+00	- SHEET 28 OF 69
MN1/MN3	- STATION 7400+00	TO 7700+00	- SHEET 29 OF 69
MN1/MN3	- STATION 7700+00	TO 8000+00	- SHEET 30 OF 69
MN1/MN3	- STATION 8000+00	TO 8200+00	- SHEET 31 OF 69
MN1/MN3	- STATION 8200+00	TO 8450+00	- SHEET 32 OF 69
MN1/MN3	- STATION 8450+00	TO 8668+10	- SHEET 33 OF 69

ALTERNATE LINE SEGMENTS

MN2/MN3	- STATION 4809+29	TO 5050+00	- SHEET 34 OF 69
MN2/MN3	- STATION 5050+00	TO 5350+00	- SHEET 35 OF 69
MN2/MN3	- STATION 5350+00	TO 5650+00	- SHEET 36 OF 69
MN2/MN3	- STATION 5650+00	TO 5950+00	- SHEET 37 OF 69
MN2/MN3	- STATION 5950+00	TO 6250+00	- SHEET 38 OF 69
MN2/MN3	- STATION 6250+00	TO 6550+00	- SHEET 39 OF 69
MN2/MN3	- STATION 6550+00	TO 6850+00	- SHEET 40 OF 69
MN2/MN3	- STATION 6850+00	TO 7150+00	- SHEET 41 OF 69
MN2/MN3	- STATION 7150+00	TO 7418+96	- SHEET 42 OF 69
MN3	- STATION 300+00	TO 550+00	- SHEET 43 OF 69
MN3	- STATION 550+00	TO 780+78	- SHEET 44 OF 69
S4	- STATION 10000+00	TO 10250+00	- SHEET 45 OF 69
S4	- STATION 10250+00	TO 10550+00	- SHEET 46 OF 69
S4	- STATION 10550+00	TO 10850+00	- SHEET 47 OF 69
S4	- STATION 10850+00	TO 11150+00	- SHEET 48 OF 69
S4	- STATION 11150+00	TO 11450+00	- SHEET 49 OF 69
S4	- STATION 11450+00	TO 11750+00	- SHEET 50 OF 69
S4	- STATION 11750+00	TO 12050+00	- SHEET 51 OF 69
S4	- STATION 12050+00	TO 12131+24	- SHEET 52 OF 69
S5	- STATION 10000+00	TO 10250+00	- SHEET 53 OF 69
S5	- STATION 10250+00	TO 10550+00	- SHEET 54 OF 69
S5	- STATION 10550+00	TO 10850+00	- SHEET 55 OF 69
S5	- STATION 10850+00	TO 11150+00	- SHEET 56 OF 69
S5	- STATION 11150+00	TO 11450+00	- SHEET 57 OF 69
S5	- STATION 11450+00	TO 11750+00	- SHEET 58 OF 69
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S6	- STATION 11750+00	TO 12000+00	- SHEET 67 OF 69
S6	- STATION 12000+00	TO 12250+00	- SHEET 68 OF 69
S6	- STATION 12250+00	TO 12357+93	- SHEET 69 OF 69

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
ORIGINATOR: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
SUBJECT MATTER/ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

INDEX OF DRAWINGS

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-IND1-PP-0200-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V03.05.02.27	SHEET: 1 OF 1

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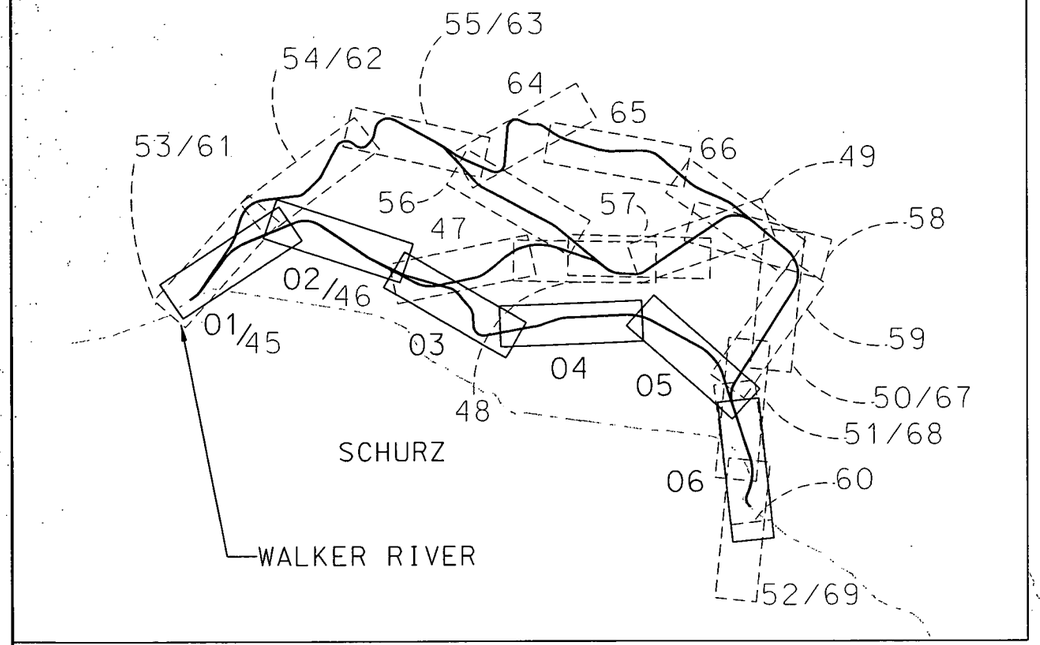


SEGMENT SHEETS

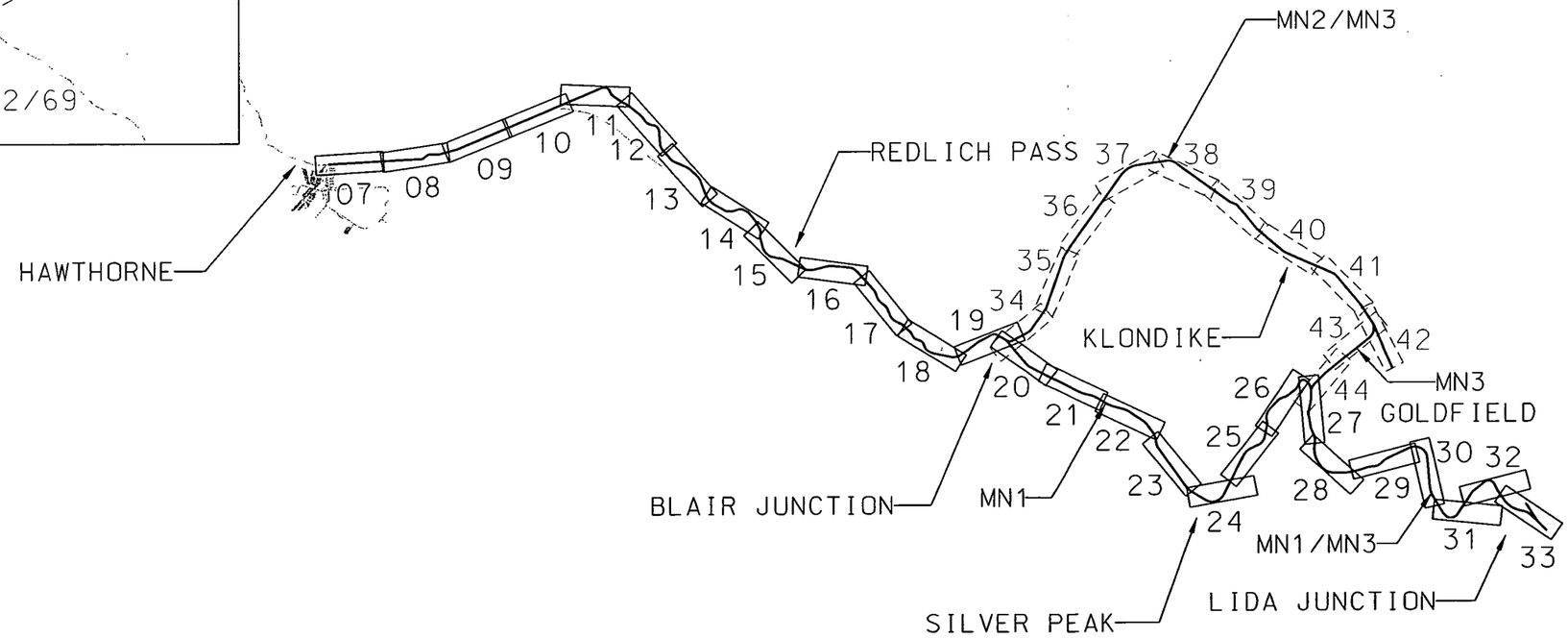
MCS1 = 7,8,9,10,11,12,13,14,15,16,17,18,19

MN1 = 20,21,22,23,24,25,26

MN1/MN3 = 27,28,29,30,31,32,33

MN2/MN3 = 34,35,36,37,38,39,40,41,42

MN3 = 43,44



SEGMENT SHEETS

S1 = 1,2,3,4,5,6

S4 = 45,46,47,48,49,50,51,52

S5 = 53,54,55,56,57,58,59,60

S6 = 61,62,63,64,65,66,67,68,69

Basis for Analysis

Alternate Alignments

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
ORIGINATOR: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEER/ENG REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MASTER KEY MAP

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-KEY1-PP-0201-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 1 OF 1

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U.S. DEPARTMENT OF ENERGY
OFFICE OF NATIONAL TRANSPORTATION

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ROUTE ALIGNMENT DEFINITION

MINA RAIL CORRIDOR

NOTES

1. TRACKS ON PLAN AND PROFILE DRAWINGS ARE INDICATED BY CENTERLINE OF TRACK.
2. REFER TO THE TRACK ALIGNMENT DATA SHEETS FOR HORIZONTAL TRACK CURVE GEOMETRY AND STATIONING.
3. ALL GRADIENTS ARE IN PERCENT UNLESS OTHERWISE NOTED.
4. ORIGINAL GROUND SHOWN ON PROFILES REFERS TO THE APPROXIMATE GROUND LINE AT THE DESIGNATED CENTERLINE.
5. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE.
6. PASSING SIDING LAYOUTS ARE NOT TO SCALE.
7. BUREAU OF LAND MANAGEMENT PUBLIC LAND ORDER NO. 7653 WITHDRAWAL OF PUBLIC LANDS FOR DOE TO PROTECT THE CALIENTE RAIL CORRIDOR. FR - DECEMBER 28, 2005.
8. BUREAU OF LAND MANAGEMENT, WITHDRAWAL OF PUBLIC LANDS FOR DOE TO PROTECT MINA RAIL CORRIDOR, FR DOCKET E7-84, FILED 01-09-2007. AS DESCRIBED IN THE "MINA RAIL ROUTE FEASIBILITY STUDY", OCT. 06. ACCESSION # MOL.20070108.0027. LAND WITHDRAWAL APPLIES TO ALL MINA ROUTE ALTERNATIVES WITH THE EXCEPTION OF ONE 3-MILE SEGMENT ON EACH OF S5 AND S6, AND ONE 9-MILE SEGMENT OF MN3, ONE 0.5 SEGMENT AT THE NORTH END OF THE YARD AT THORNE, AND ONE 3.4 MILE SEGMENT ALONG MCS1 NEAR REDLICH.
9. DESIGNERS DEVELOPED S1, MCS1, MN1 AND MN2 ALIGNMENTS DEPICTED HEREIN BASED ON NEW 5' CONTOUR MAPPING DATA BSC SUPPLIED TO NRP. S4, S5, S6 AND MN3 ALIGNMENTS DEPICTED HEREIN ARE BASED ON USGS MAPPING DATA BSC SUPPLIED TO NRP.
10. FOR INFORMATION ON THE CALIENTE ROUTE ALIGNMENTS FROM LIDA JUNCTION SOUTH TO YUCCA MOUNTAIN, SEE ENGINEERED PLAN AND PROFILE DRAWING SET/CALIENTE RAIL CORRIDOR/REV. 2/MAY 11, 2007.
11. R.O.W. IS 1000' TOTAL ACROSS BLM LANDS, BUT WIDTH VARIES ACROSS PRIVATE LANDS, SENSITIVE LOCATIONS, AND THE WRIR. WIDTH IS MINIMIZED AT THE LATTER LOCATIONS AND IS BASED ON TOE OF SLOPE/CUT OUTLINE PLUS 50' ADDED EACH SIDE FOR CONSTRUCTION PURPOSES.
12. DEFAULT SIDING LENGTH IS 7000'. IN SOME CASES DESIGNERS LENGTHENED SIDINGS TO AVOID PLACING TURNOUTS WITHIN CURVES, AND/OR TO AVOID STOPPING TRAINS IN SIDINGS FACING UPHILL ON STEEP GRADES. A 5000' SIDING IS PROPOSED AT FORT CHURCHILL DUE TO LAND CONFLICTS.

LEGEND

- NRL CENTERLINE
- BLM NEVADA RAIL LINE LAND WITHDRAWAL
- RFEIS BOUNDARY
- OTHER PROPERTY BOUNDARY (INCLUDING FEDERAL, COUNTY AND PRIVATE)
- PAVED ROADS (US6,US95,SR361,SR265,SR266) AND MAJOR GRAVEL OR EARTH ROADS
- HIGH VOLTAGE TRANSMISSION LINES (EXISTING)
- CONTOUR LINES
- SUMMIT
- BRIDGE
- CULVERT

ABBREVIATIONS

BLM - BUREAU OF LAND MANAGEMENT
BSC - BECHTEL-SAIC CORP.
DOD - DEPARTMENT OF DEFENSE
DOE - DEPARTMENT OF ENERGY
EL - ELEVATION
FR - FEDERAL REGISTER
HV - HIGH VOLTAGE
NDOT - NEVADA DEPARTMENT OF TRANSPORTATION
No. - NUMBER
NRP - NEVADA RAIL PARTNERS
POB - POINT OF BEGINNING
POE - POINT OF ENDING
PC - POINT OF CURVE
PT - POINT OF TANGENT
PVC - POINT OF VERTICAL CURVE
PVT - POINT OF VERTICAL TANGENT
PVI - POINT OF VERTICAL INTERSECTION
RFEIS - REPOSITORY FINAL ENVIRONMENTAL IMPACT STATEMENT
ROW - RIGHT OF WAY
SHT - SHEET
WRIR - WALKER RIVER INDIAN RESERVATION

LINE SEGMENTS

S1 - SCHURZ 1
S4 - SCHURZ 4
S5 - SCHURZ 5
S6 - SCHURZ 6
MCS1 - MINA COMMON SEGMENT 1
MN1 - ALTERNATE 1
MN2 - ALTERNATE 2
MN3 - ALTERNATE 3
GF - GOLDFIELD
BC - BONNIE CLAIR
OV - OASIS VALLEY
BW - BEATTY WASH
CS - COMMON SEGMENT

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
ORIGINATOR: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

NOTES & ABBREVIATIONS

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-NOTE-PP-0202-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 1 OF 1

...\NRP-D-NOTE-PP-0202-00.dgn 4/13/2007 9:27:37 AM

S1 SEGMENT

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10000+00	POB				
		987			
10009+87	PC				
			1955	1°00'00"	5730
10029+42	PT				
		8412			
10113+54	PC				
			6218	0°30'00"	11459
10175+72	PT				
		11506			
10290+78	PC				
			5724	1°00'00"	5730
10348+02	PT				
		12073			
10468+75	PC				
			797	1°00'00"	5730
10476+72	PT				
		7768			
10554+41	PC				
			1083	1°00'00"	5730
10565+23	PT				
		10053			
10665+77	PC				
			1642	2°00'00"	2865
10682+19	PT				
		4230			
10724+49	PC				
			2655	1°30'00"	3820
10751+04	PT				
		1771			
10768+75	PC				
			3954	2°30'00"	2292
10808+29	PT				
		10709			
10915+38	PC				
			1952	0°30'00"	11459
10934+90	PT				
		2506			
10959+96	PC				
			3512	0°30'00"	11459
10995+08	PT				
		12082			
11115+90	PC				
			6309	0°30'00"	11459
11179+00	PT				
		11511			
11294+10	PC				
			8610	0°30'00"	11459
11380+20	PT				
		18606			
11566+26	PC				
			8017	0°30'00"	11459
11646+43	PT				
		702			
11653+45	PC				
			2926	2°30'00"	2292
11682+70	POE/PT				

MCS1 SEGMENT

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
1000+00	POB				
		42047			
1420+47	PC				
			1144	3°00'00"	1910
1431+91	PT				
		1639			
1448+30	PC				
			2591	1°30'00"	3820
1474+21	PT				
		2440			
1498+61	PC				
			1623	1°00'00"	5730
1514+84	PT				
		7695			
1591+79	PC				
			421	2°00'00"	2865
1596+00	PT				
		71545			
2311+45	PC				
			4076	2°15'00"	2547
2352+20	PT				
		853			
2360+73	PC				
			1592	2°00'00"	2865
2376+65	PT				
		4412			
2420+77	PC				
			1458	0°30'00"	11459
2435+35	PT				
		1822			
2453+57	PC				
			1922	0°30'00"	11459
2472+79	PT				
		5999			
2532+79	PC				
			1674	1°00'00"	5730
2549+53	PT				
		1741			
2566+94	PC				
			3628	1°15'00"	4584
2603+21	PT				
		1064			
2613+85	PC				
			3783	2°00'00"	2865
2651+68	PT				
		5630			
2707+99	PC				
			3684	1°00'00"	5730
2744+82	PT				
		5092			
2795+75	PC				
			2545	1°00'00"	5730
2821+19	PT				
		5722			

MCS1 SEGMENT (CONT.)

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
2878+41	PC				
			2036	1°00'00"	5730
2898+77	PT				
		4799			
2946+76	PC				
			2651	1°00'00"	5730
2973+28	PT				
		5307			
3026+35	PC				
			8074	0°30'00"	11459
3107+09	PT				
		4042			
3147+51	PC				
			4858	1°00'00"	5730
3196+09	PT				
		2304			
3219+14	PC				
			2040	2°00'00"	2865
3239+54	PT				
		887			
3248+41	PC				
			2938	1°00'00"	5730
3277+79	PT				
		4145			
3319+25	PC				
			1074	1°00'00"	5730
3329+98	PT				
		3110			
3361+08	PC				
			1813	2°00'00"	2865
3379+20	PT				
		990			
3389+10	PC				
			1169	2°00'00"	2865
3400+79	PT				
		5017			
3450+96	PC				
			6495	1°00'00"	5730
3515+92	PT				
		1985			
3535+76 BK=					
3537+52 AHD					
		1656			
3554+09	PC				
			1430	1°00'00"	5730
3568+38	PT				
		10722			
3675+60	PC				
			3819	1°00'00"	5730
3713+79	PT				
		7044			
3784+23	PC				
			1855	1°00'00"	5730

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	DLE	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
DESIGNED BY: RLH	
CHECKED BY: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

BASIS FOR ANALYSIS- HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD01-PP-0203-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 1 OF 3

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MCS1 SEGMENT (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
3802+78	PT				
		7580			
3878+58	PC				
			4307	1°00'00"	5730
3921+65	PT				
		11418			
4035+83	PC				
			2653	1°00'00"	5730
4062+36	PT				
		607			
4068+43	PC				
			3686	1°00'00"	5730
4105+30	PT				
		1465			
4119+94	PC				
			2892	1°00'00"	5730
4148+86	PT				
		2842			
4177+28	PC				
			4109	1°00'00"	5730
4218+36	PT				
		2118			
4239+55	PC				
			1763	1°00'00"	5730
4257+17	PT				
		4053			
4297+70	PC				
			818	2°00'00"	2865
4305+88	PT				
		1906			
4324+94	PC				
			1798	2°00'00"	2865
4342+92	PT				
		2528			
4368+20	PC				
			1605	3°00'00"	1910
4384+25	PT				
		1566			
4399+91	PC				
			2120	2°00'00"	2865
4421+11	PT				
		1596			
4437+07	PC				
			1839	1°00'00"	5730
4455+46	PT				
		7810			
4533+56	PC				
			4831	1°00'00"	5730
4581+86	PT				
		8521			

MCS1 SEGMENT (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
4667+07	PC				
			1866	0°30'00"	11459
4685+73	PT				
		6017			
4745+90	PC				
			2945	2°00'00"	2865
4775+34	PT				
		3679			
4812+14	POE				

MN1					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
4809+29	PC				
			2003	1°00'00"	5730
4829+32	PT				
		12863			
4957+95	PC				
			2467	1°00'00"	5730
4982+62	PT				
		26018			
5242+80	PC				
			2271	0°30'00"	11459
5265+51	PT				
		2832			
5293+83	PC				
			3142	0°30'00"	11459
5325+25	PT				
		5129			
5376+54	PC				
			3200	0°30'00"	11459
5408+54	PT				
		3845			
5446+99	PC				
			3776	0°30'00"	11459
5484+75	PT				
		8089			
5565+63	PC				
			2104	1°00'00"	5730
5586+67	PT				
		4436			
5631+03	PC				
			2329	1°00'00"	5730
5654+32	PT				
		3260			
5686+92	PC				
			2353	1°00'00"	5730
5710+45	PT				
		22286			
5933+31	PC				
			2324	1°00'00"	5730
5956+55	PT				
		7834			

MN1 (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
6034+89	PC				
			9456	1°00'00"	5730
6129+45	PT				
		20587			
6335+32	PC				
			3784	1°00'00"	5730
6373+16	PT				
		4163			
6414+79	PC				
			5314	1°00'00"	5730
6467+93	PT				
		4979			
6517+72	PC				
			2140	1°00'00"	5730
6539+12	PT				
		675			
6545+88	PC				
			5218	1°00'00"	5730
6598+06	PT				
		4737			
6645+43	PC				
			2938	1°00'00"	5730
6674+81	PT				
		1096			
6685+77	PC				
			1807	1°00'00"	5730
6703+84	PT				
		3667			
6740+50	PC				
			3206	1°00'00"	5730
6772+56	PT				
		1163			
6784+20	PC				
			3732	3°00'00"	1910
6821+51	PT				
		68			
6822+18 BK=					
6832+23 AHD					
		396			
6836+19	PC				
			4764	1°00'00"	5730
6883+83	PT				
		3894			
MN1/MN3					
6922+77	PC				
			1114	1°00'00"	5730
6933+91	PT				
		4140			
6975+31	PC				
			2236	1°00'00"	5730
6997+67	PT				
		5274			
7050+41	PC				
			1310	1°00'00"	5730

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VCR	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
DESIGNED BY: RLH	
CHECKED: SNE	
MODIFIED BY: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TWS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

BASIS FOR ANALYSIS-
HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD02-PP-0204-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 2 OF 3

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MN1/MN3 (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
7063+52	PT				
		2633			
7089+85	PC				
			2824	1°00'00"	5730
7118+08	PT				
		2838			
7146+46	PC				
			7278	0°30'00"	11459
7219+24	PT				
		1520			
7234+43	PC				
			7732	0°45'00"	7639
7311+76	PT				
		3536			
7347+12	PC				
			7084	0°15'00"	22918
7417+96	PT				
		4250			
7460+47	PC				
			2743	0°30'00"	11459
7487+90	PT				
		685			
7494+75	PC				
			3942	1°00'00"	5730
7534+17	PT				
		1165			
7545+82	PC				
			3589	0°30'00"	11459
7581+72	PT				
		9979			
7681+51	PC				
			11034	1°00'00"	5730

MN1/MN3 (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
7791+85	PT				
		13007			
7921+92	PC				
			5412	0°30'00"	11459
7976+04	PT				
		8897			
8065+01	PC				
			7694	1°30'00"	3820
8141+94	PT				
		11287			
8254+81	PC				
			1869	1°00'00"	5730
8273+51	PT				
		6101			
8334+52	PC				
			5098	2°00'00"	2865
8385+50	PT				
		2522			
8410+71	PC				
			1515	0°30'00"	11459
8425+86	PT				
		4568			
8471+55	PC				
			8462	0°30'00"	11459
8556+17	PT				
		2527			
8581+44	PC				
			3089	1°00'00"	5730
8612+33	PT				
		5577			
8668+10	POE				

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	DRG	CHK	VER	DLE	DER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY CTS	
ORIGINATOR RLH	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

BASIS FOR ANALYSIS-
HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD03-PP-0205-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 3 OF 3

...\NRP-D-CD03-PP-0205-00.dgn 4/13/2007 9:34:52 AM

MN2/MN3					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
4809+29	POB				
		1096			
4820+25	PC				
			3008	2°00'00"	2865
4850+33	PT				
		8456			
4934+89	PC				
			1226	2°00'00"	2865
4947+14	PT				
		11454			
5061+68	PC				
			890	2°00'00"	2865
5070+58	PT				
		23074			
5301+32	PC				
			3348	0°30'00"	11459
5334+80	PT				
		44067			
5775+47	PC				
			9290	0°30'00"	11459
5868+38	PT				
		13195			
6000+33	PC				
			4468	1°00'00"	5730
6045+00	PT				
		30008			
6345+08	PC				
			1078	1°30'00"	3820
6355+86	PT				
		1837			
6374+23	PC				
			1529	2°00'00"	2865
6389+53	PT				
		13691			
6526+43	PC				
			1010	1°00'00"	5730
6536+53	PT				
		14170			
6678+23	PC				
			1670	1°00'00"	5730
6694+93	PT				
		23490			
6929+83	PC				
			2671	1°00'00"	5730
6956+54	PT				
		16613			
7122+68	PC				
			637	1°00'00"	5730
7129+05	PT				
		9989			
7228+95	PC				
			1061	1°00'00"	5730
7239+56	PT				
		10872			

MN2/MN3 (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
7348+28	PC				
			492	0°15'00"	22918
7353+19	PT				
		6577			
7418+96	POE				

MN3 SEGMENT					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
300+00	POB				
		1771			
317+71	PC				
			8434	1°00'00"	5730
402+05	PT				
		25119			
653+25	PC				
			1493	0°30'00"	11459
668+19	PT				
		5950			
727+69	PC				
			4306	1°00'00"	5730
770+74	PT				
		1004			
780+78	POE				

S4 SEGMENT					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10000+00	POB				
		955			
10009+55	PC				
			1962	1°00'00"	5730
10029+17	PT				
		8442			
10113+59	PC				
			6232	0°30'00"	11459
10175+91	PT				
		11499			
10290+90	PC				
			5724	1°00'00"	5730
10348+13	PT				
		12167			
10469+81	PC				
			610	1°00'00"	5730
10475+90	PT				
		11119			
10587+09	PC				
			5356	0°45'00"	7639
10640+65	PT				
		8576			
10726+41	PC				
			2799	1°00'00"	5730

S4 SEGMENT (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10754+40	PT				
		5359			
10807+99	PC				
			11662	0°30'00"	11459
10924+61	PT				
		8314			
11007+75	PC				
			2013	1°00'00"	5730
11027+87	PT				
		1373			
11041+61	PC				
			3558	1°00'00"	5730
11077+19	PT				
		3035			
11107+54	PC				
			2511	1°30'00"	3820
11132+65	PT				
		20077			
11333+41	PC				
			7441	1°00'00"	5730
11407+82	PT				
		9742			
11505+24	PC				
			9855	0°50'00"	6876
11603+80	PT				
		23990			
11843+70	PC				
			5007	1°00'00"	5730
11893+77	PT				
		12106			
12104+83	PC				
			8017	0°30'00"	11459
12095+01	PT				
		715			
12102+15	PC				
			2908	2°30'00"	2292
12131+24	POE/PT				

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	SIGNATURE/DATE
DRAWN BY: CTS	
DESIGNED BY: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TWS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

ALTERNATE ALIGNMENT-
HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD04-PP-0206-00	00
SAFETY CATEGORY	CAD SOFTWARE: MICROSTATION V08.05.02.27		SHEET: 1 OF 3

...\NRP-D-CD04-PP-0206-00.dgn 4/13/2007 9:38:48 AM

S5

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10000+00	POB				
		831			
10008+31	PC				
			2202	1°00'00"	5730
10030+33	PT				
		11272			
10143+05	PC				
			3366	0°30'00"	11459
10176+71	PT				
		3584			
10212+55	PC				
			6588	1°00'00"	5730
10278+43	PT				
		7610			
10354+53	PC				
			1822	2°00'00"	2865
10372+75	PT				
		3342			
10406+17	PC				
			1986	1°00'00"	5730
10426+03	PT				
		6855			
10494+58	PC				
			4099	2°30'00"	2292
10535+57	PT				
		810			
10543+67	PC				
			2865	3°00'00"	1910
10572+31	PT				
		1064			
10582+95	PC				
			1668	2°00'00"	2865
10599+63	PT				
		1203			
10611+66	PC				
			5439	2°00'00"	2865
10666+04	PT				
		11108			
10777+12	PC				
			1905	1°00'00"	5730
10796+17	PT				
		9768			
10893+85	PC				
			1940	1°00'00"	5730
10913+24	PT				
		17246			
11085+70	PC				
			1162	1°00'00"	5730
11097+32	PT				
		13758			
11234+90	PC				
			3658	1°00'00"	5730
11271+48	PT				
		2980			

S5 (CONT.)

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
11301+28	PC				
			2511	1°30'00"	3820
11326+38	PT				
		20077			
11527+15	PC				
			7441	1°00'00"	5730
11601+56	PT				
		9742			
11698+98	PC				
			9855	0°50'00"	6876
11797+53	PT				
		23990			
12037+43	PC				
			5007	1°00'00"	5730
12087+50	PT				
		12106			
12208+57	PC				
			8017	0°30'00"	11459
12288+74	PT				
		715			
12295+89	PC				
			2908	2°30'00"	2292
12324+97	POE/PT				

S6 SEGMENT

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10000+00	POB				
		831			
10008+31	PC				
			2202	1°00'00"	5730
10030+33	PT				
		11272			
10143+05	PC				
			3366	0°30'00"	11459
10176+71	PT				
		3584			
10212+55	PC				
			6588	1°00'00"	5730
10278+43	PT				
		7610			
10354+53	PC				
			1822	2°00'00"	2865
10372+75	PT				
		3342			
10406+17	PC				
			1986	1°00'00"	5730
10426+03	PT				
		6855			
10494+58	PC				
			4099	2°30'00"	2292
10535+57	PT				
		810			

S6 SEGMENT (CONT.)

STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
10543+67	PC				
			2865	3°00'00"	1910
10572+31	PT				
		1064			
10582+95	PC				
			1668	2°00'00"	2865
10599+63	PT				
		1203			
10611+66	PC				
			5439	2°00'00"	2865
10666+04	PT				
		11451			
10780+55	PC				
			1249	0°30'00"	11459
10793+04	PT				
		2555			
10818+59	PC				
			2312	0°30'00"	11459
10841+72	PT				
		6842			
10910+13	PC				
			3625	3°00'00"	1910
10946+38	PT				
		8067			
11027+05	PC				
			3609	3°00'00"	1910
11063+14	PT				
		1705			
11080+19	PC				
			1245	2°00'00"	2865
11092+64	PT				
		738			
11100+02	PC				
			1823	2°00'00"	2865
11118+25	PT				
		2729			
11145+54	PC				
			3412	0°30'00"	11459
11179+66	PT				
		6506			
11244+73	PC				
			3590	0°30'00"	11459
11280+63	PT				
		6336			
11343+99	PC				
			4102	1°00'00"	5730
11385+01	PT				
		8547			

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DPC	CHK	MCH	CLE	CCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY: CTS	
DESIGNED BY: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

ALTERNATE ALIGNMENT–
HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD05-PP-0207-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 2 OF 3

...\NRP-D-CD05-PP-0207-00.dgn 4/12/2007 9:06:02 AM

S6 SEGMENT (CONT.)					
STATION	DESCRIPTION	TANGENT LENGTH	LENGTH OF CURVE	DEGREE OF CURVE	RADIUS
11470+49	PC				
			3394	0°30'00"	11459
11504+43	PT				
		4948			
11553+91	PC				
			3328	0°30'00"	11459
11587+19	PT				
		14475			
11731+94	PC				
			9855	0°50'00"	6876
11830+49	PT				
		23990			
12070+39	PC				
			5007	1°00'00"	5730
12120+46	PT				
		12106			
12241+53	PC				
			8017	0°30'00"	11459
12321+70	PT				
		702			
12328+72	PC				
			2921	2°30'00"	2292
12357+93	POE/PT				

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	CLE	OCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY CTS	
ORIGINATOR RLH	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

ALTERNATE ALIGNMENT-
HORIZONTAL CURVE DATA

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-CD06-PP-0208-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 3 OF 3

...\NRP-D-CD06-PP-0208-00.dgn 4/18/2007 4:15:21 PM

Road Crossings Proposed for Mina Route Alignments

Station (approx.)	Road Name	Road Number	Owner	Surface	ADT (Veh./Day)	Warning Devices	Provides Access to
S1 Alignment							
10940+00	US 95	US 95	State	Paved	2550	Separation	State Highway
S4 Alignment							
10850+00	US 95	US 95	State	Paved	2550	Separation	State Highway
S5 Alignment							
10990+00	US 95	US 95	State	Paved	2550	Separation	State Highway
S6 Alignment							
10940+00	US 95	US 95	State	Paved	2550	Separation	State Highway
MCS1 Alignment							
2200+00	SR 361	SR 361	State	Paved	120	Separation	State Highway
4800+00	US 6/95	US 6/95	State	Paved	2200	Separation	State Highway
MN1 Alignment							
5880+00	Silver Peak Industry		Esmeralda Co.	Paved		Active	Silver Peak
8355+00	US 95	US 95	State	Paved	2050	Separation	State Highway
MN2 Alignment							
7420+00	Silver Peak Road		Esmeralda Co.	Dirt/Gravel	60	Passive	Silver Peak
MN3 Alignment							
420+00	Silver Peak Road		Esmeralda Co.	Dirt/Gravel	60	Passive	Silver Peak

Notes:
All road crossing locations are approximate.
Annual traffic counts are based on 2004 NDOT data.
Designers will determine ultimate crossing locations on a case-by-case basis.

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: MJT	
ORIGINATOR: RLH	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

ROAD CROSSING TABLES

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-ROAD-PP-0209-00	00
SAFETY CATEGORY	CAD SOFTWARE: MICROSTATION V03.05.02.27		SHEET 1 OF 1

...\NRP-D-ROAD-PP-0209-00.dgn 4/13/2007 9:40:15 AM

Structures Proposed for Mina Route Alignments

Station	Type	Length (feet)	Height (feet)	Description
S1/S4/S5/S6 Alignments				
10100+00	Bridge	1000	40	Walker River
S1 Alignment				
10940+00	Bridge/Separation	n/a	n/a	US 95 Overhead
S4 Alignment				
10850+00	Bridge/Separation	n/a	n/a	US 95 Overhead
S5 Alignment				
10990+00	Bridge/Separation	n/a	n/a	US 95 Overhead
S6 Alignment				
10940+00	Bridge/Separation	1000	30	US 95 Undercrossing
MCS1 Alignment				
2200+00	Bridge/Separation	n/a	n/a	SR 361 Overhead
4780+00	Bridge/Separation	n/a	n/a	US6/95 Overhead
MN1 Alignment				
8355+00	Bridge	500	25	China Wash
8355+00	Bridge/Separation	n/a	n/a	US 95 Overhead

Notes:
Undercrossing denotes Highway crossing under Railroad.
Overhead denotes Highway crossing over Railroad.
All bridge Length and Height data are approximate.
Designers will determine ultimate sizes based on hydraulic and refined alignment data.
Bridge locations and quantities may change based on value engineering results, and upon future review of hydraulic data.

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ORG	CHK	KEY	DLE	DEP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/INITIALS
DRAWN BY CTS	
ORIGINATOR RLH	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

STRUCTURE TABLES

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	N/A	NRP-D-STR1-PP-0210-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 1 OF 1

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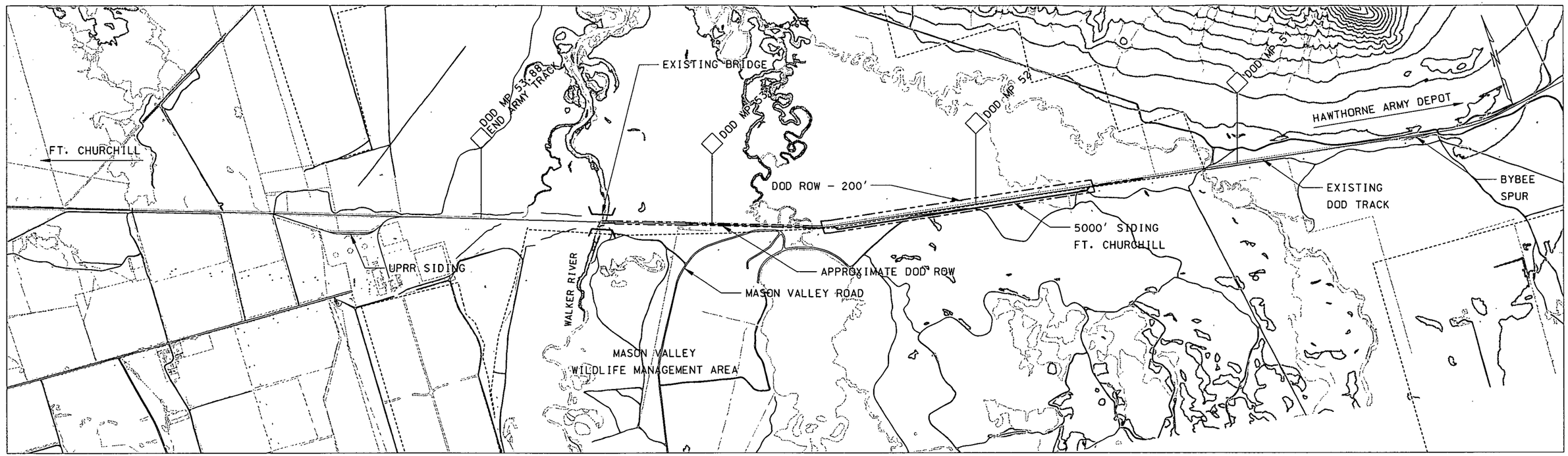

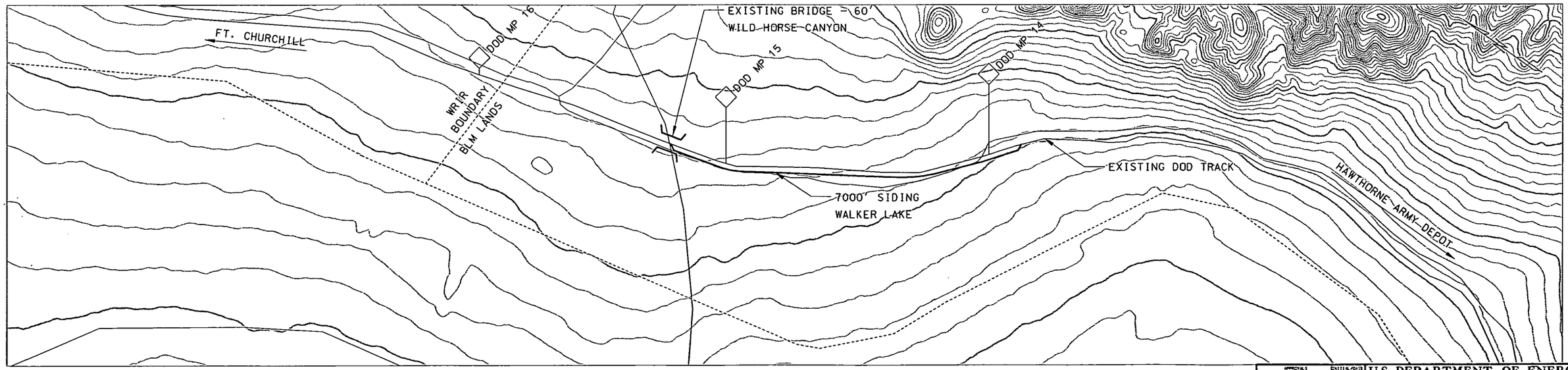

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	MGR	DLE	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY CJP	
ORIGINATOR CJP	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

FT. CHURCHILL &
WALKER LAKE SIDINGS

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M001-PP-0211-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 1 OF 1

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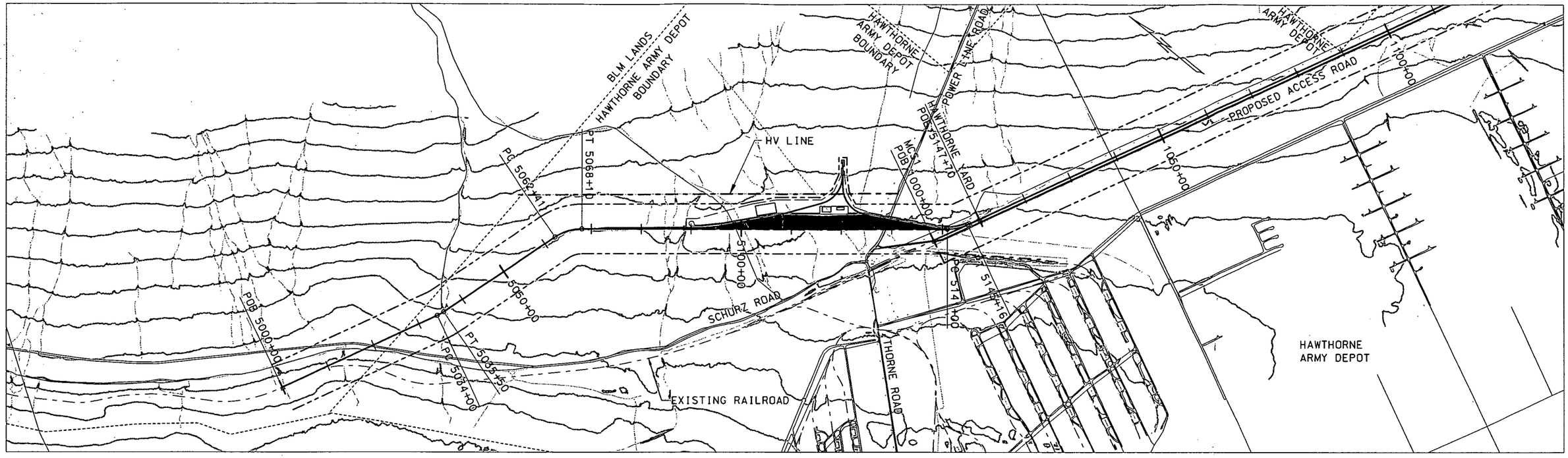

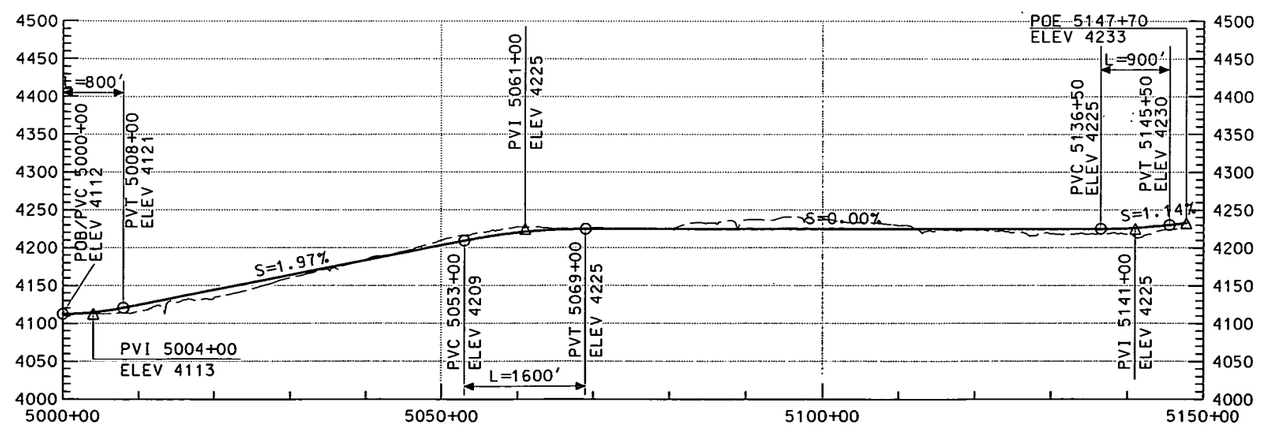

C

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY CJP	
ORIGINATOR CJP	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

NRL HAWTHORNE STAGING YARD
SITE PLAN

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-HAW1-PP-0212-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 1 OF 1

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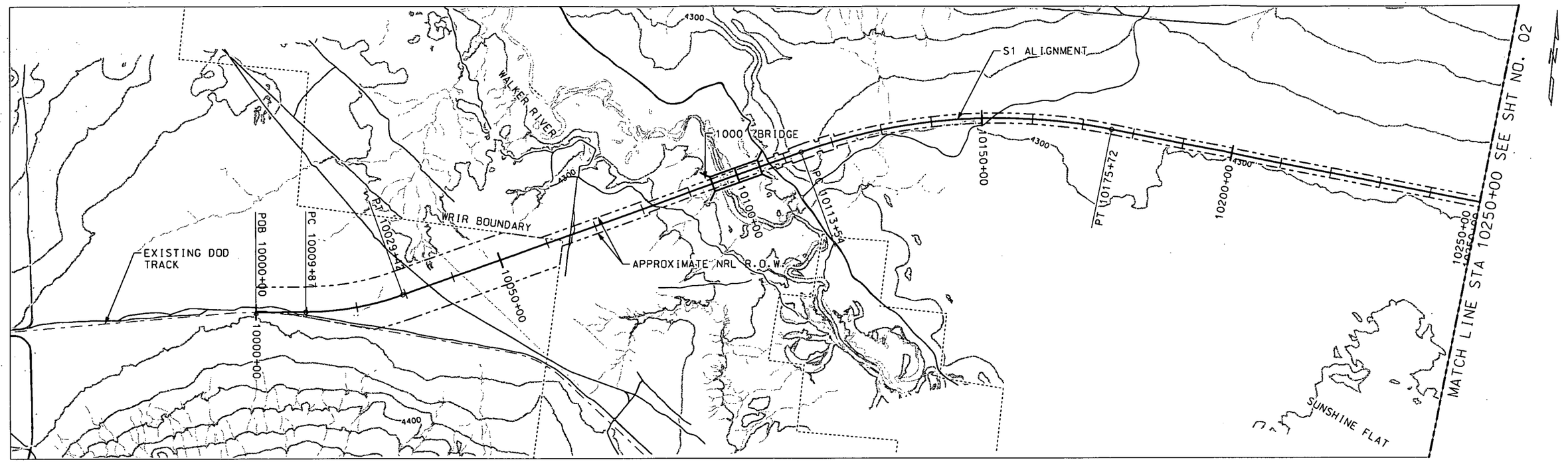
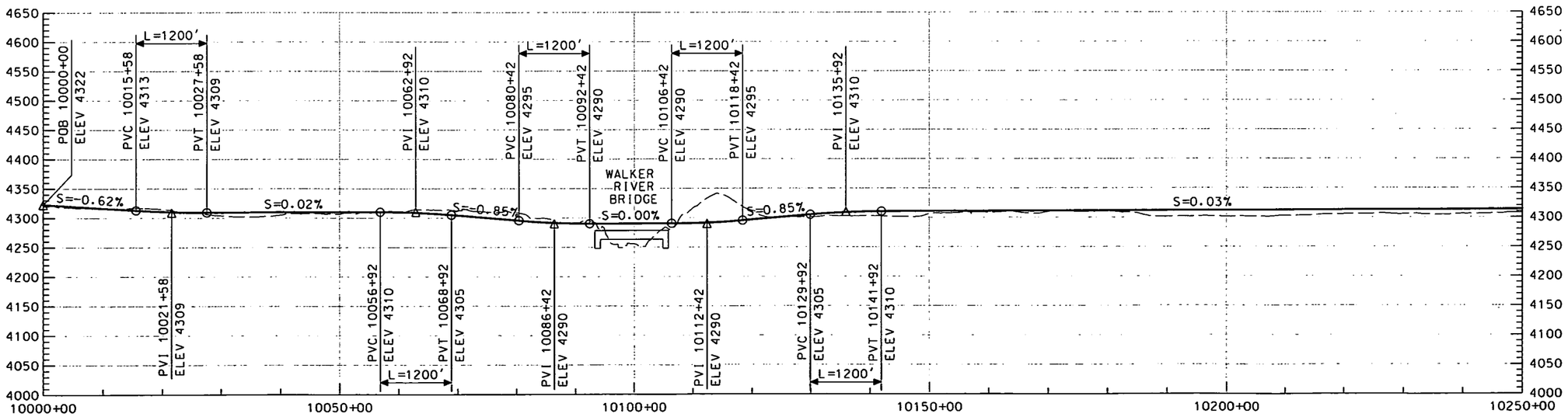




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	GER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

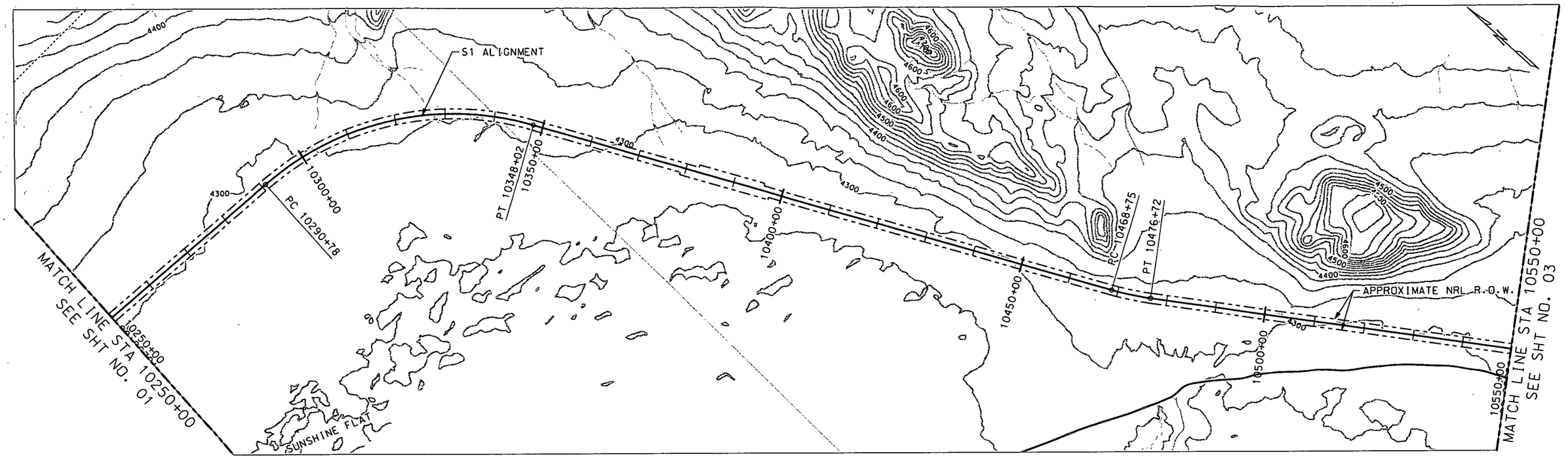
APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

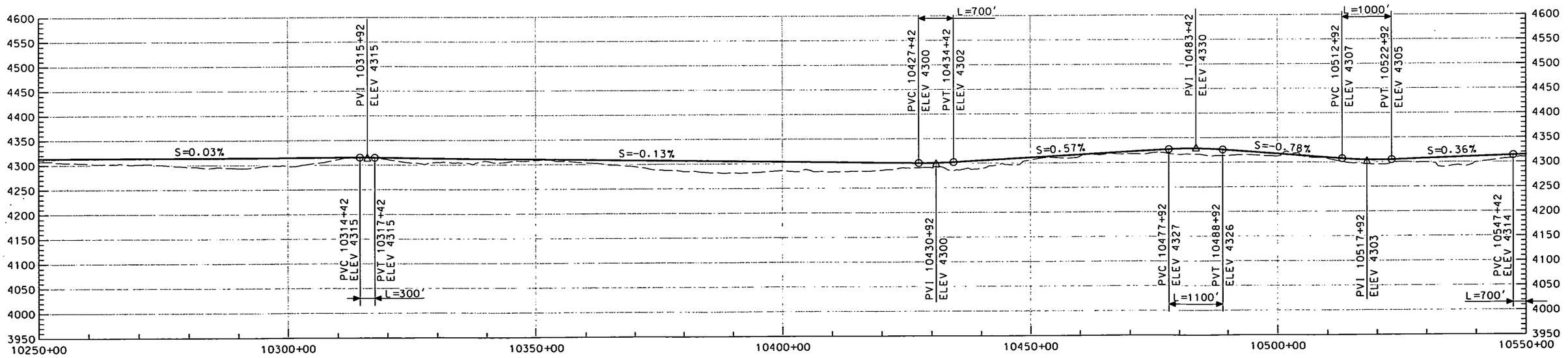
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
10000+00 TO 10250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S101-PP-0001-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 1 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	ORN	CHK	CHK	VER	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

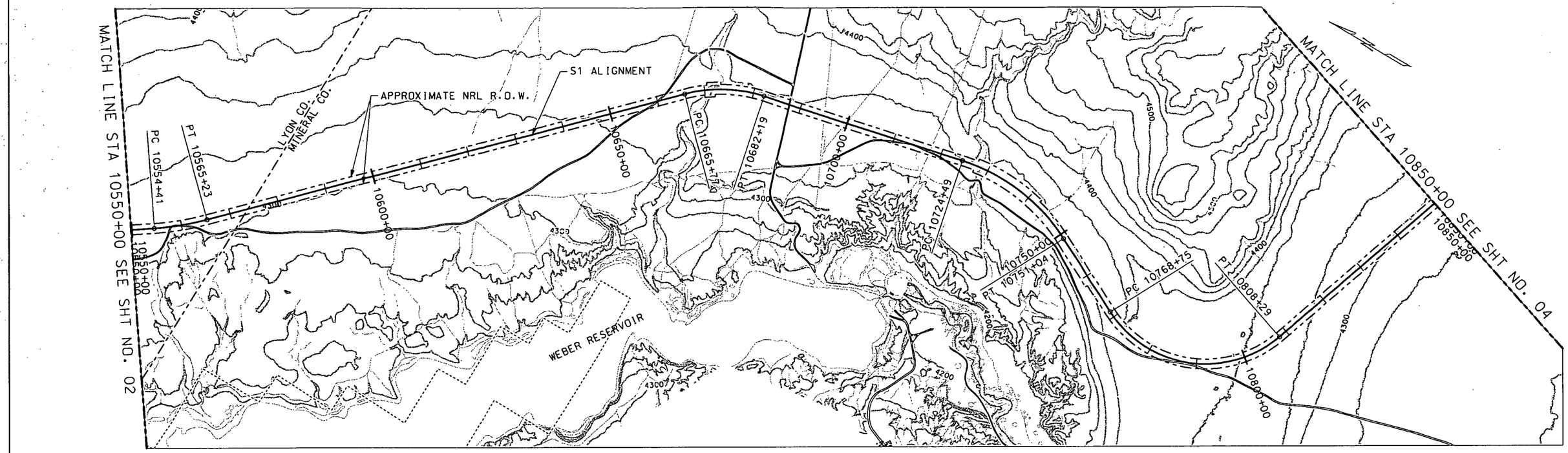
APPROVALS	INITIAL/DATE
DRAWN BY EMC	
DESIGNATION MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

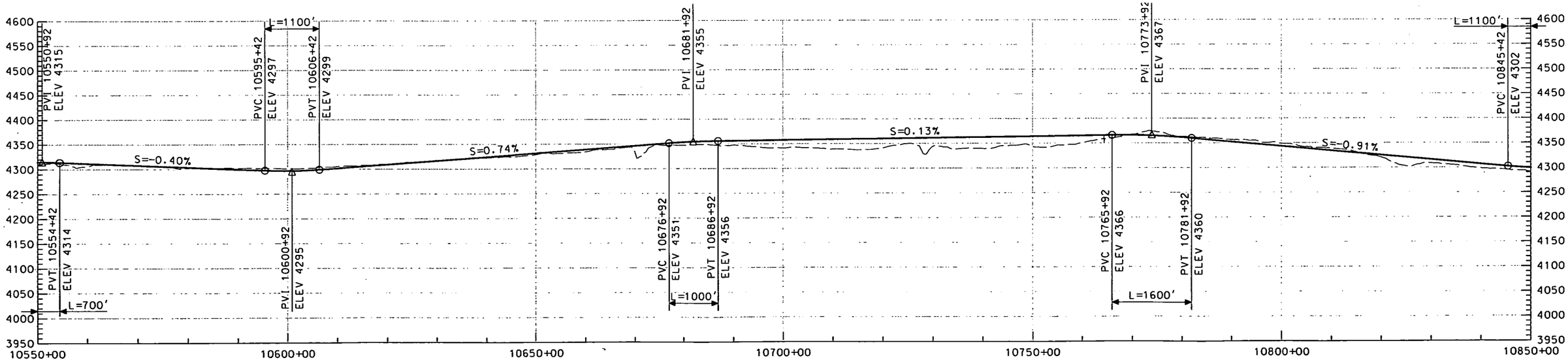
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
10250+00 TO 10550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S102-PP-0002-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 2 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ENG	CHK	MCR	CLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY: EMC	
DESIGNATION: MAL	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
10550+00 TO 10850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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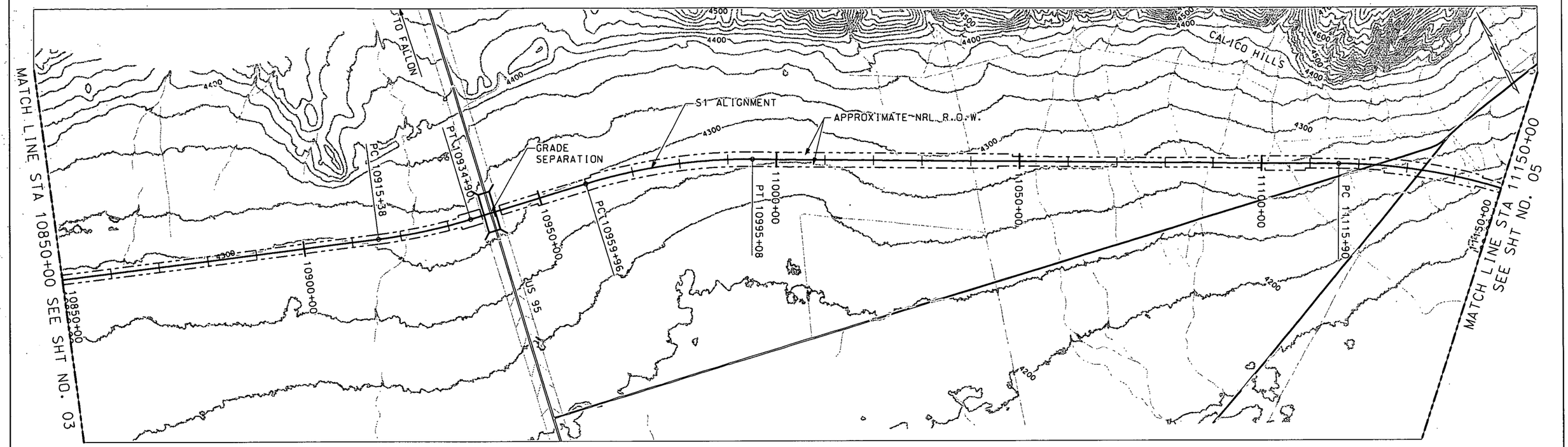
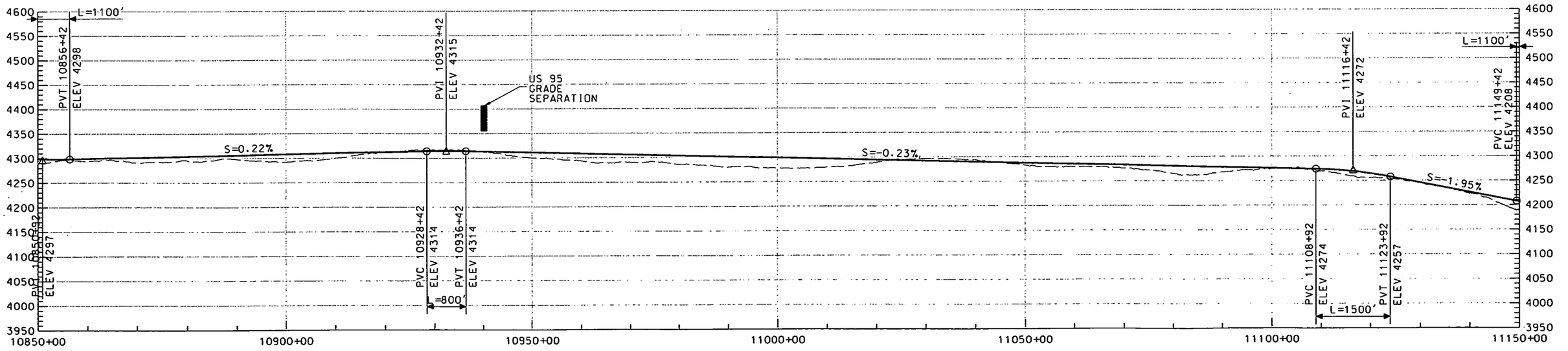
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 3 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	CRN	CRC	CHK	WER	CLE	CER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
10850+00 TO 11150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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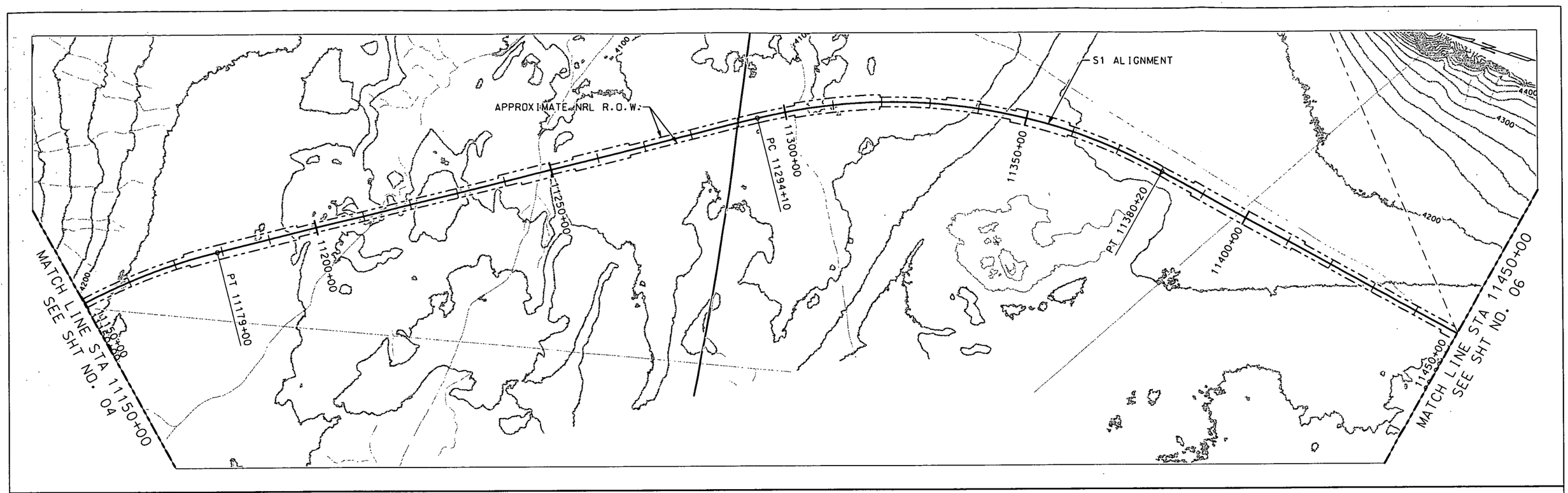
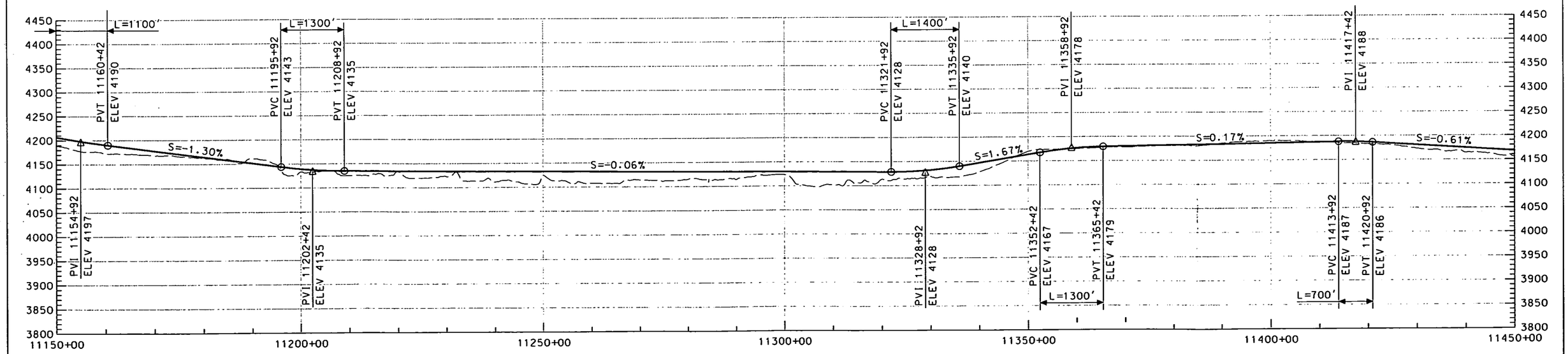
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 4 OF 69





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GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	CLE	CCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
11150+00 TO 114500+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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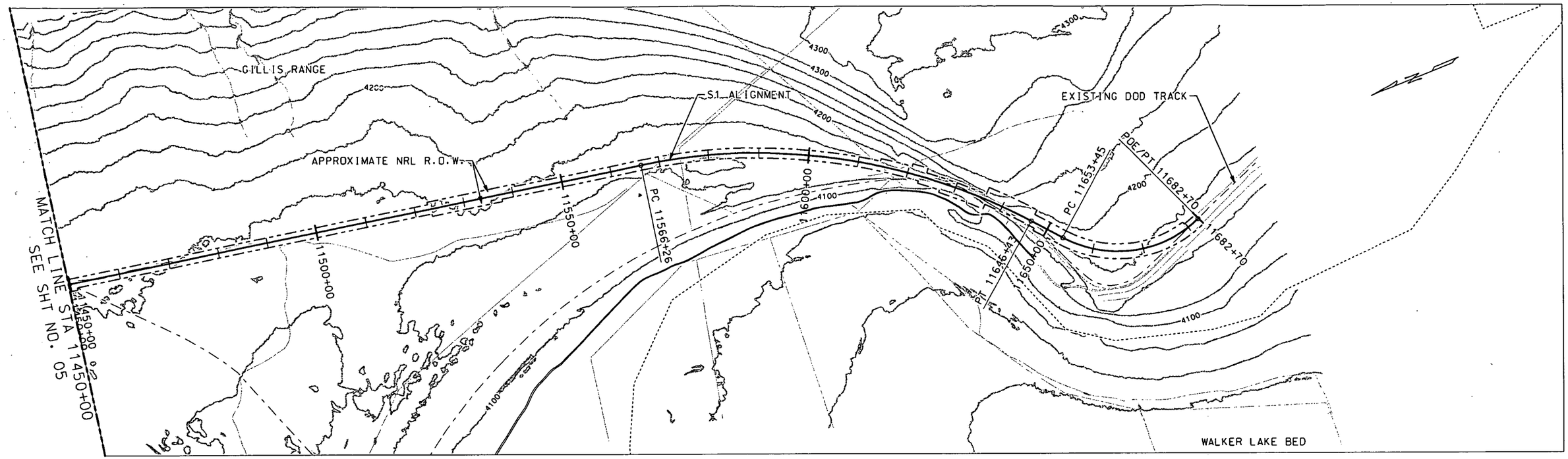
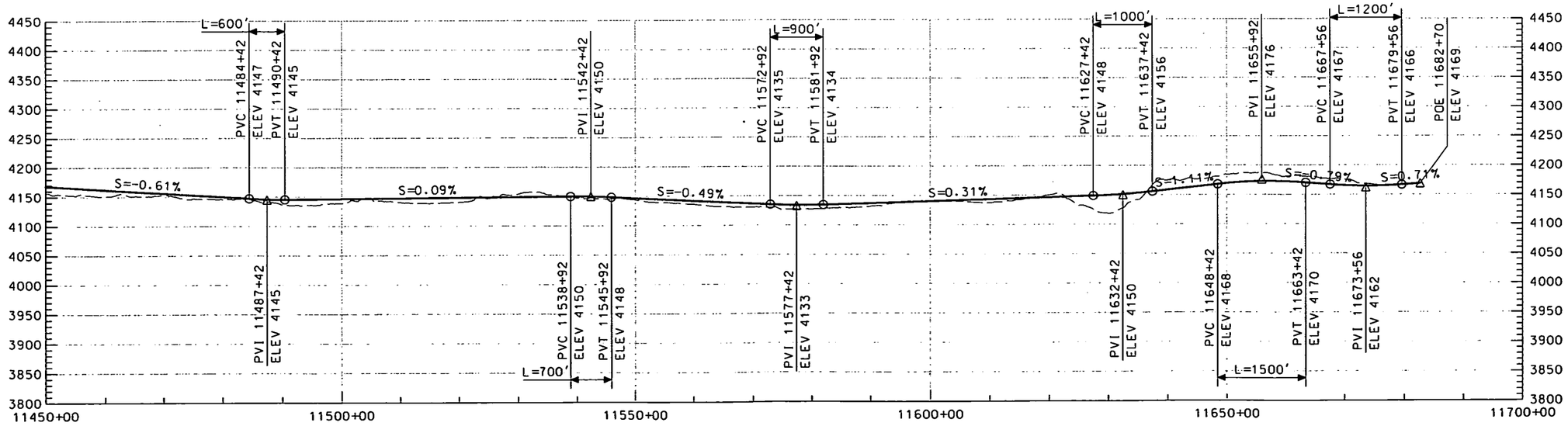
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 5 OF 69





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GRAPHIC SCALE

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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	MCR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
MODIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S1
11450+00 TO 11682+70

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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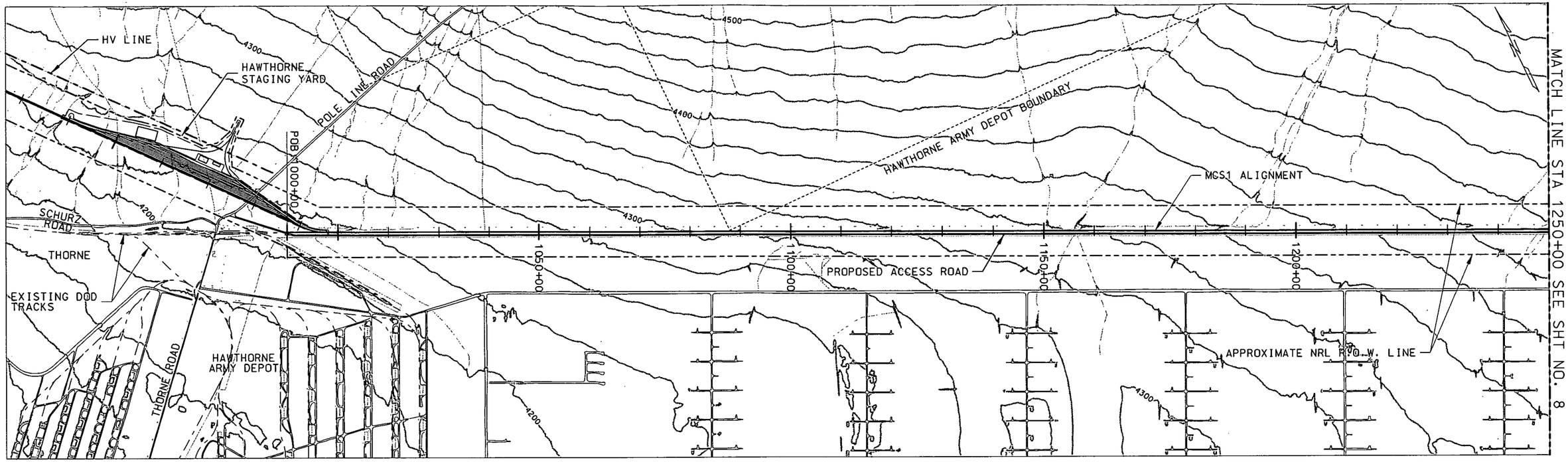
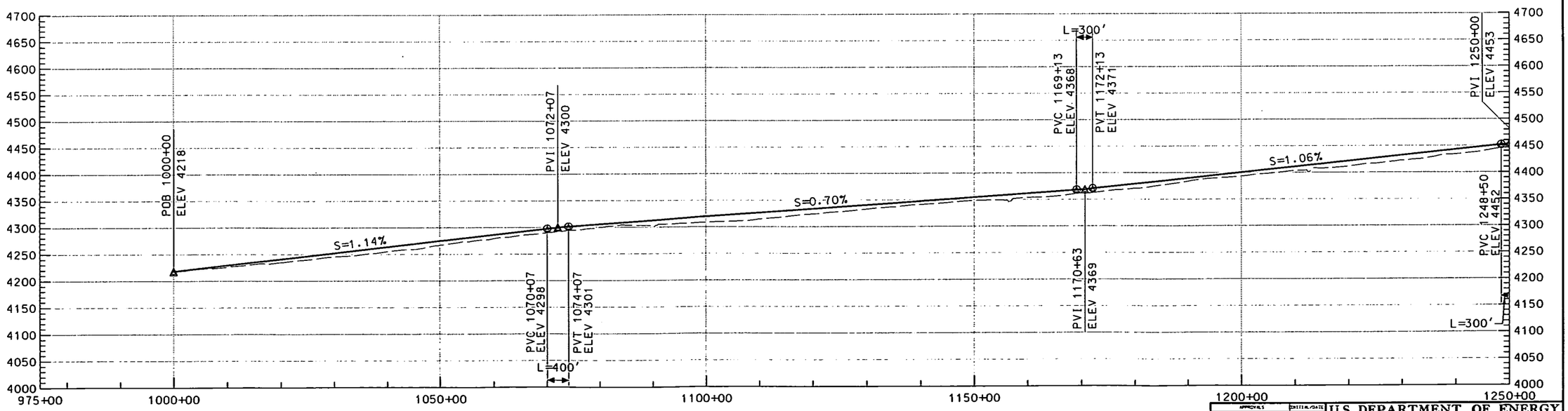
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 6 OF 69





GRAPHIC SCALE

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V 50' 50' 100' 200'

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CSN	KEY	CLE	CCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

DRAWN BY	KLB
DESIGNED BY	KLB
CHECKED	SNE/LEM
VERIFICATION	JRC
DESIGN LEAD ENGINEER	LEM
QUALITY ENGINEERING REP	TMS
PROJECT ENGINEER	JRC

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC — Management and Operation of the Office of CMBlen Radioactive Waste Management Program

MCS1
1000+00 TO 1250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-MC01-PP-0007-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET 7 OF 69

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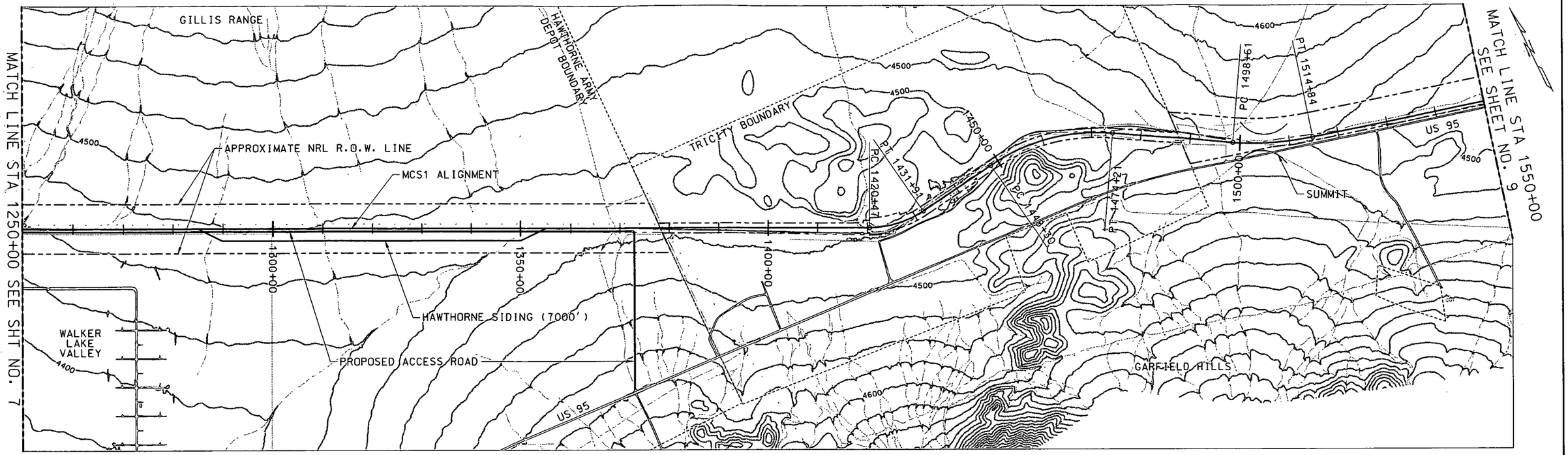

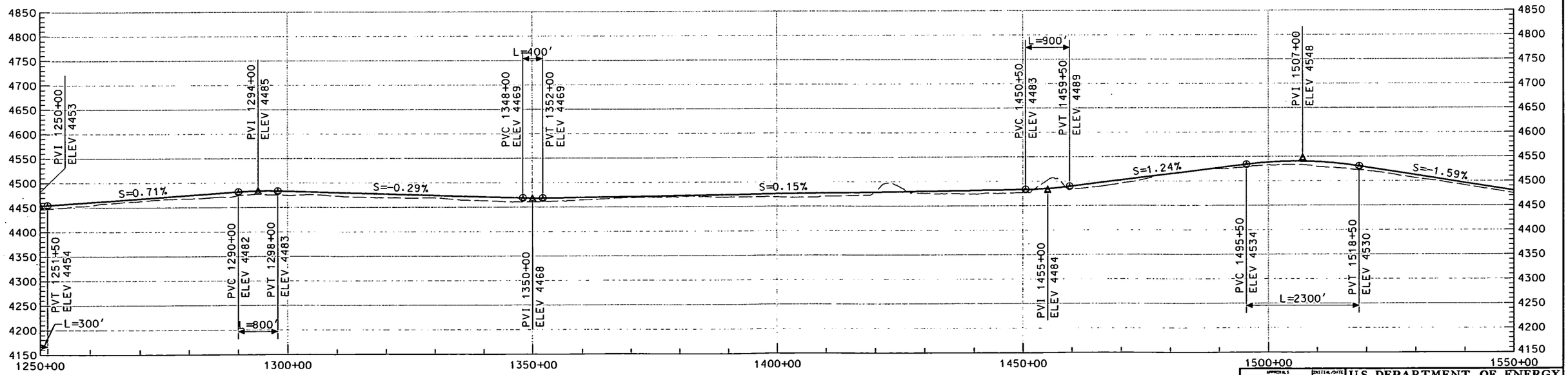

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ORG	CHK	AES	CLE	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

	APPROVALS	INITIAL/DATE
DRAWN BY	KLB	
DESIGNATED	KLB	
CHECKED	SNE/LEM	
VERIFICATION	JRC	
DESIGN LEAD ENGINEER	LEM	
QUALITY ENGINEERING REP	TMS	
PROJECT ENGINEER	JRC	

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BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
1250+00 TO 1550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-MC02-PP-0008-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 8 OF 69

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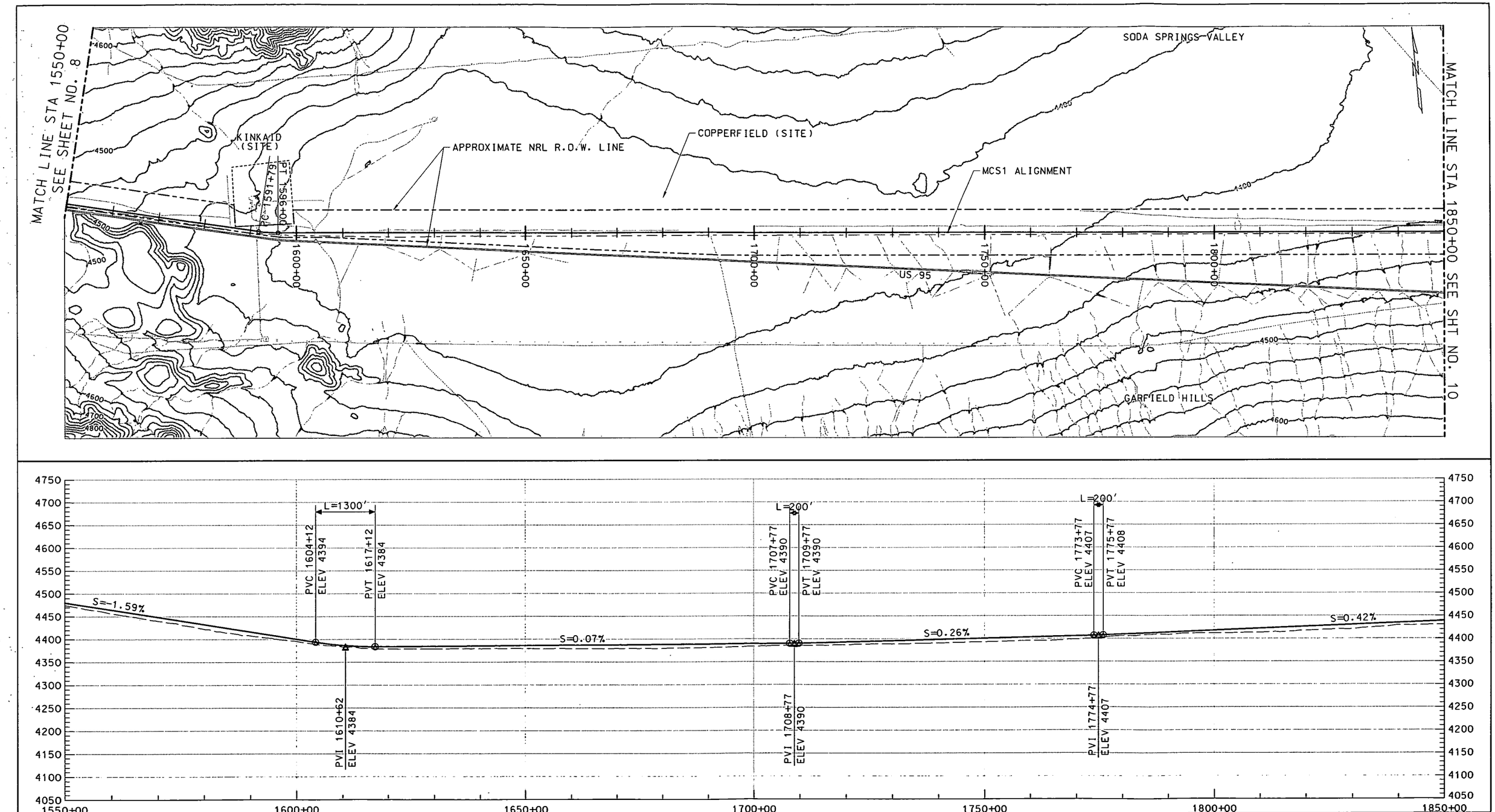

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	MGR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR KLB	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
1550+00 TO 1850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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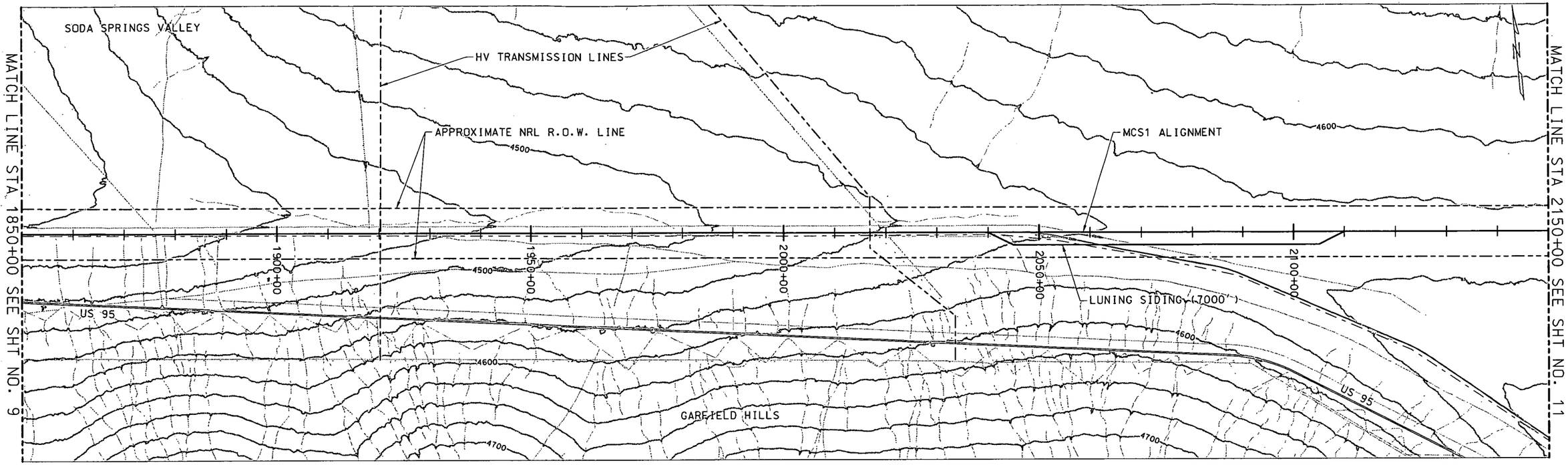
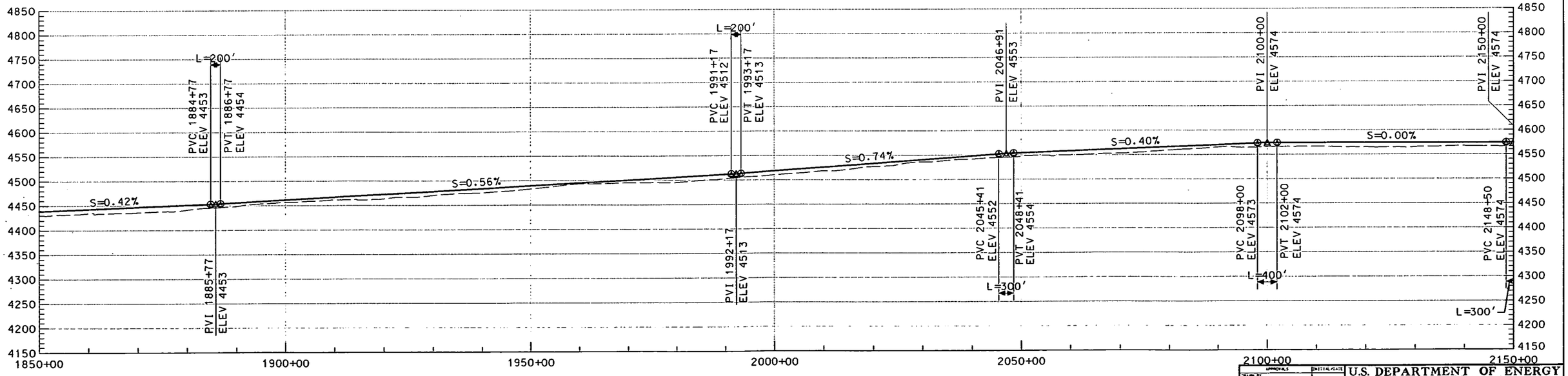
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 9 OF 69





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GRAPHIC SCALE

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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	DES	CHK	VCR	CLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNED KLB	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
1850+00 TO 2150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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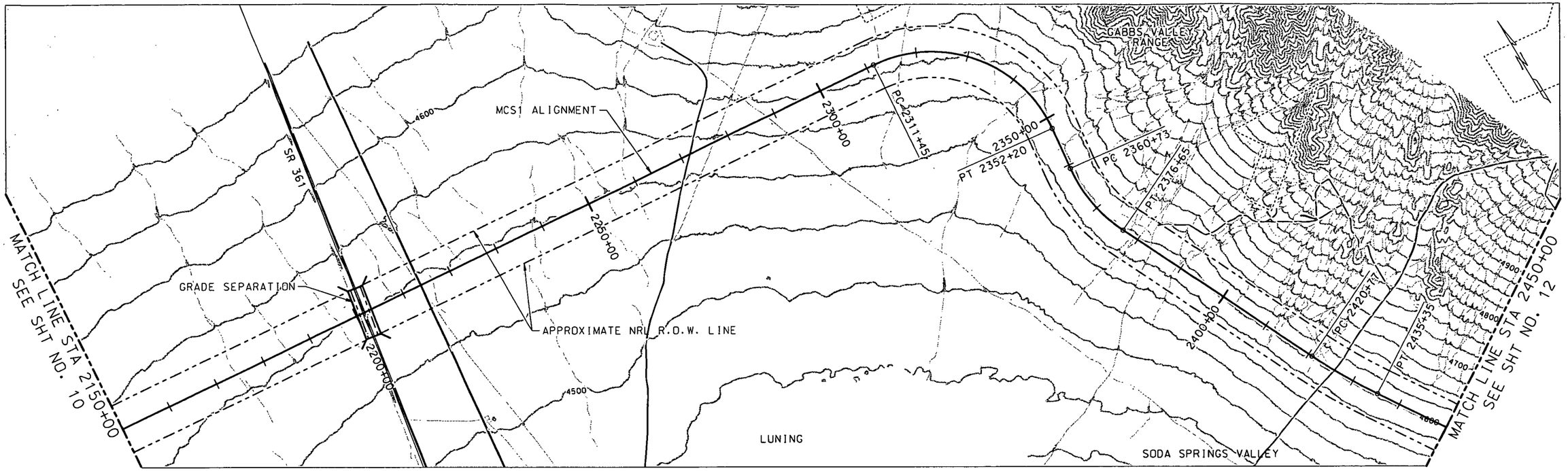
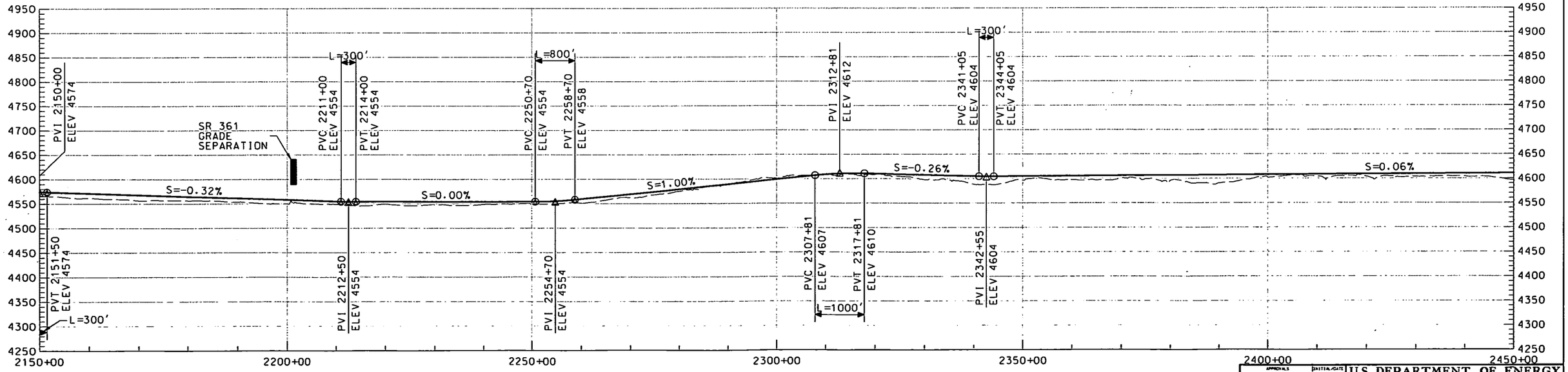
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V03.05.02.27	SHEET 10 OF 69





GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	CLK	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIALS/DATE
DRAWN BY KLB	
DESIGNATION KLB	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
2150+00 TO 2450+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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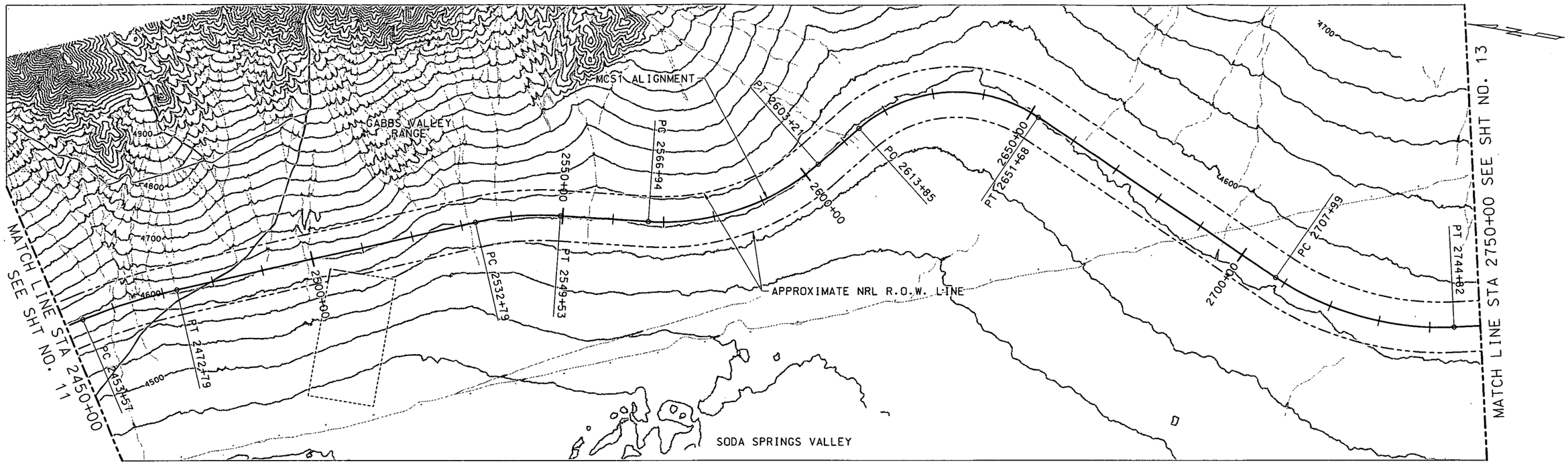
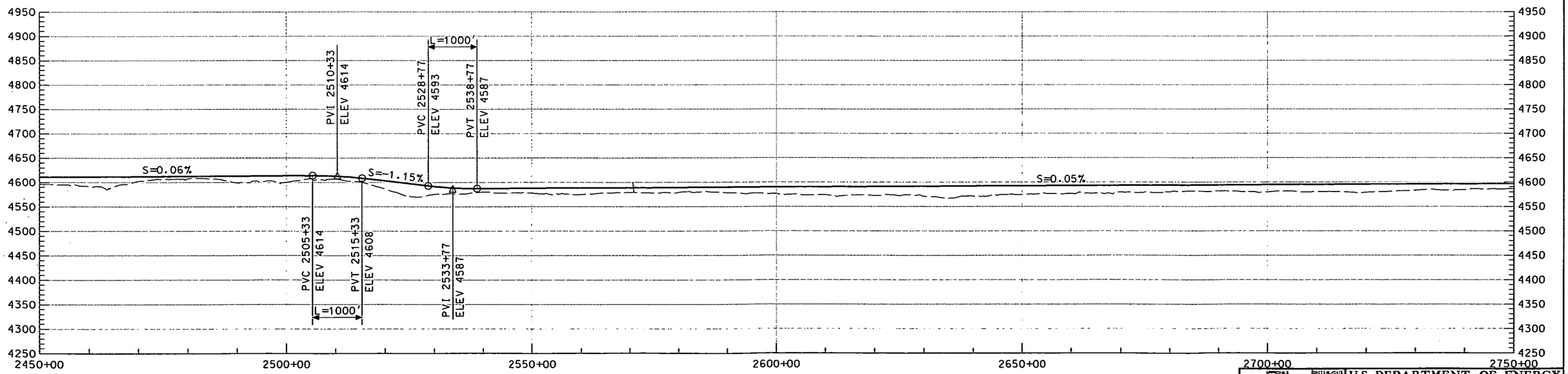
SAFETY CATEGORY	CAD SOFTWARE MICROSTATION V08.05.02.27		SHEET 11 OF 69





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GRAPHIC SCALE

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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CPC	CHK	WCR	DLE	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

	APPROVALS	INITIAL/DATE
DRAWN BY	KLB	
DESIGNED BY	KLB	
CHECKED	SNE/LEM	
VERIFICATION	JRC	
DESIGN LEAD ENGINEER	LEM	
QUALITY ENGINEERING REP	TMS	
PROJECT ENGINEER	JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
2450+00 TO 2750+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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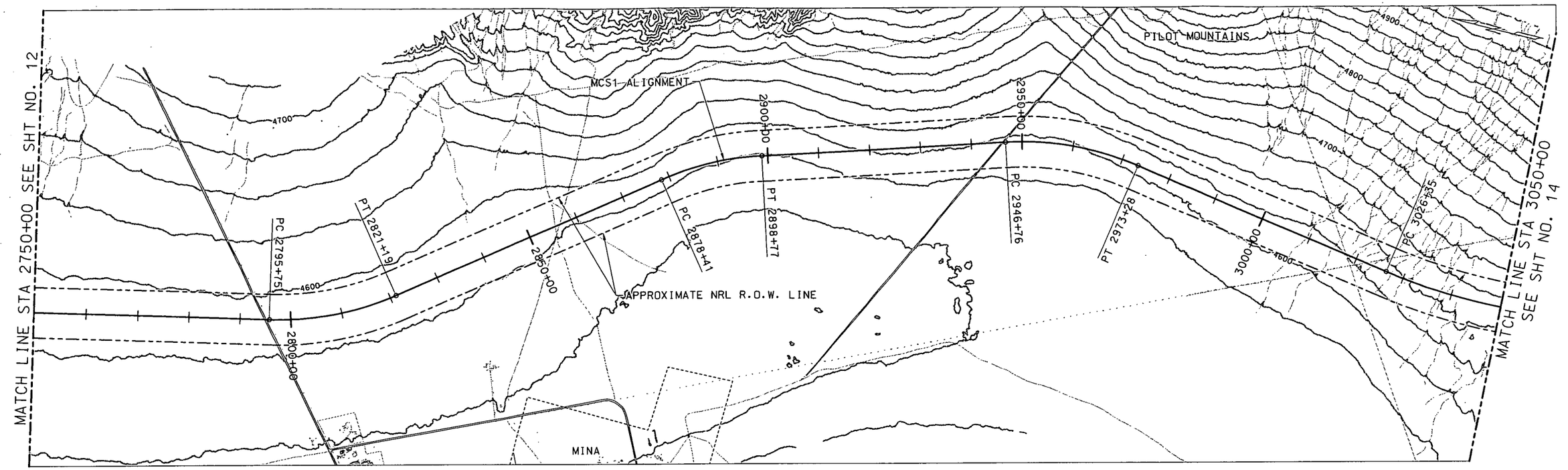

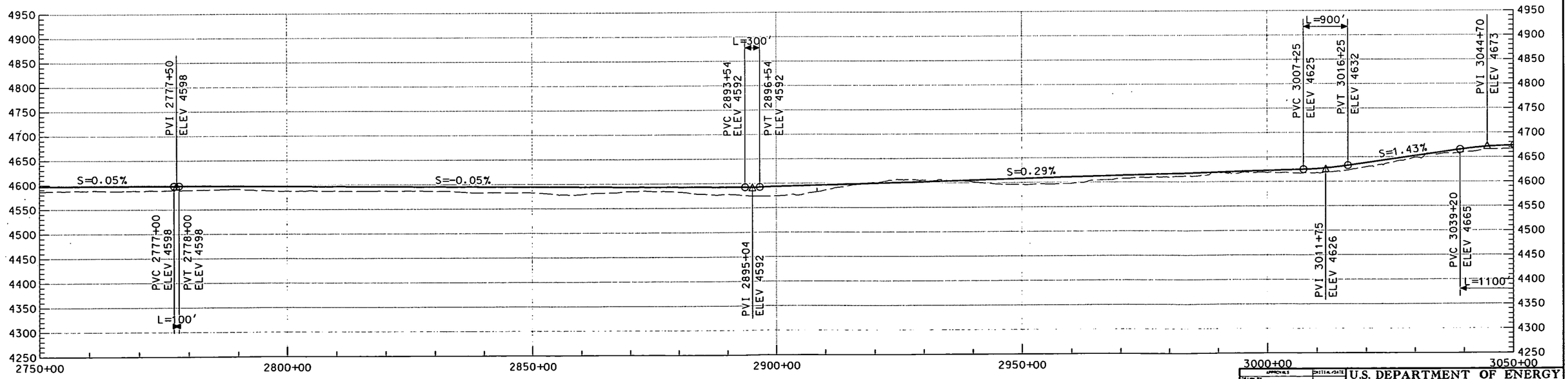

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DRC	CHK	MCS	CLE	OCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNED KLB	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
2750+00 TO 3050+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-MC07-PP-0013-00	00
SAFETY CATEGORY	CAD SOFTWARE MICROSTATION V08.05.02.27		SHEET 13 OF 69

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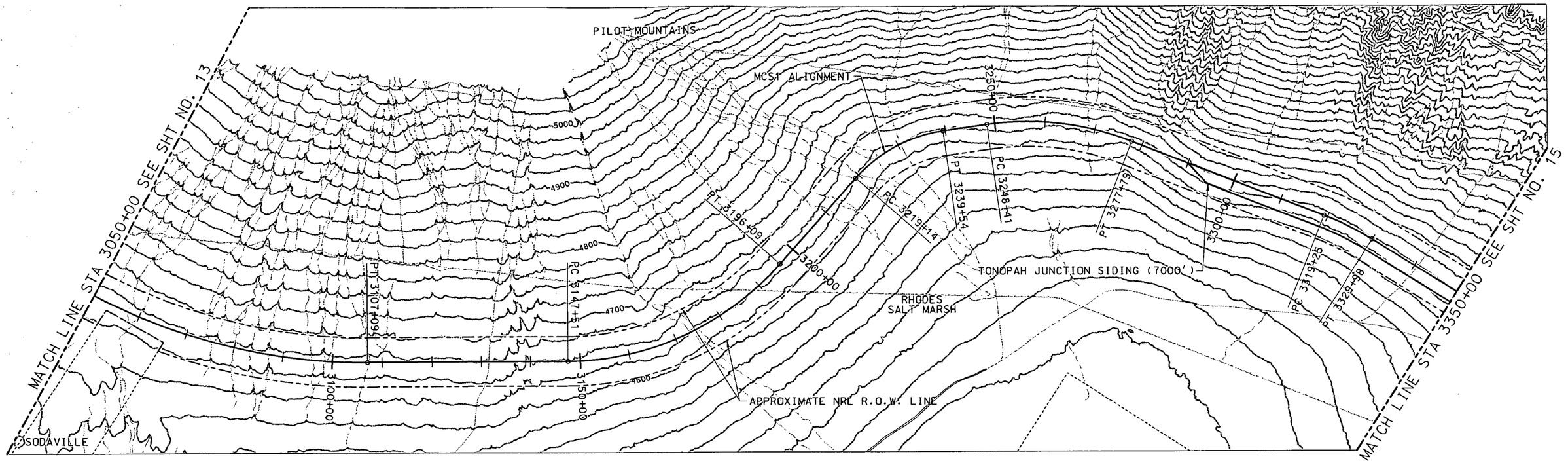

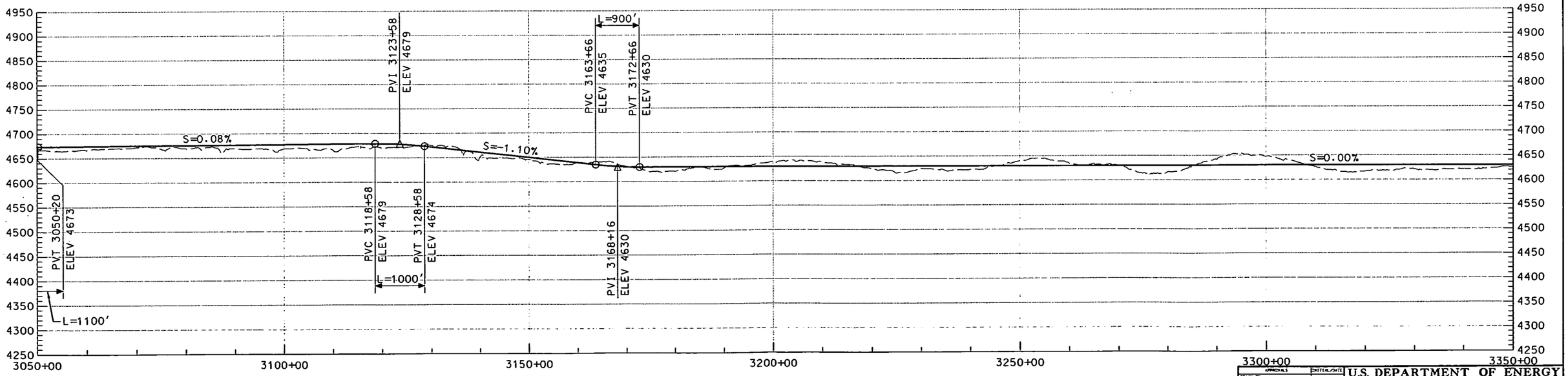

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

DRAWN BY	KLB
DESIGNED BY	KLB
CHECKED	SNE/LEM
VERIFICATION	JRC
DESIGN LEAD ENGINEER	LEM
QUALITY ENGINEERING REP	TNS
PROJECT ENGINEER	JRC

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
3050+00 TO 3350+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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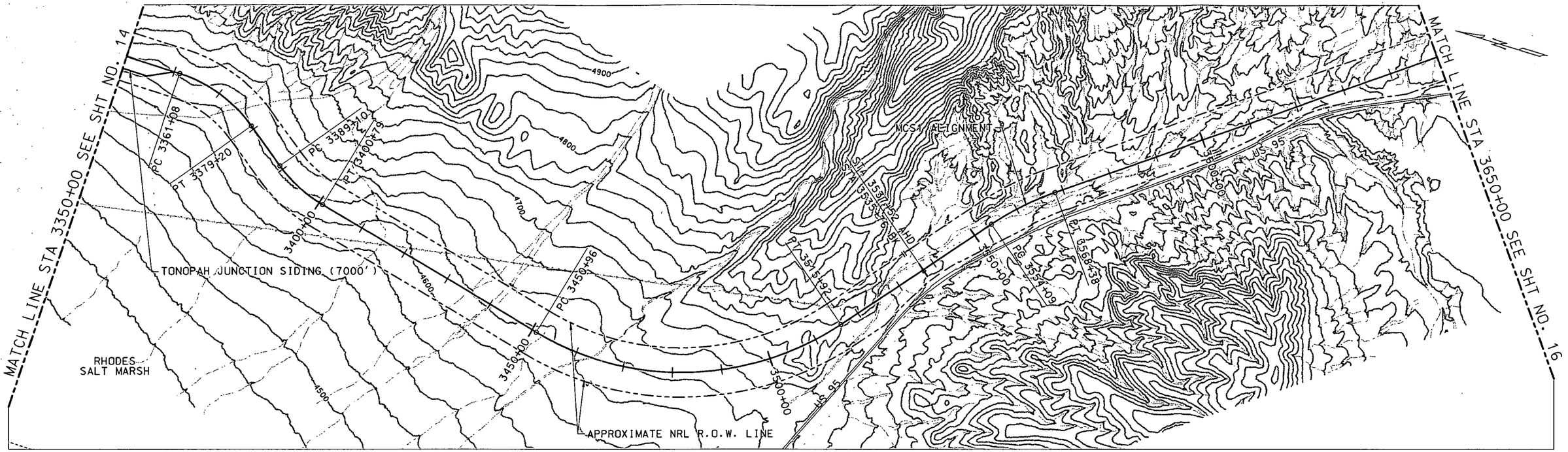
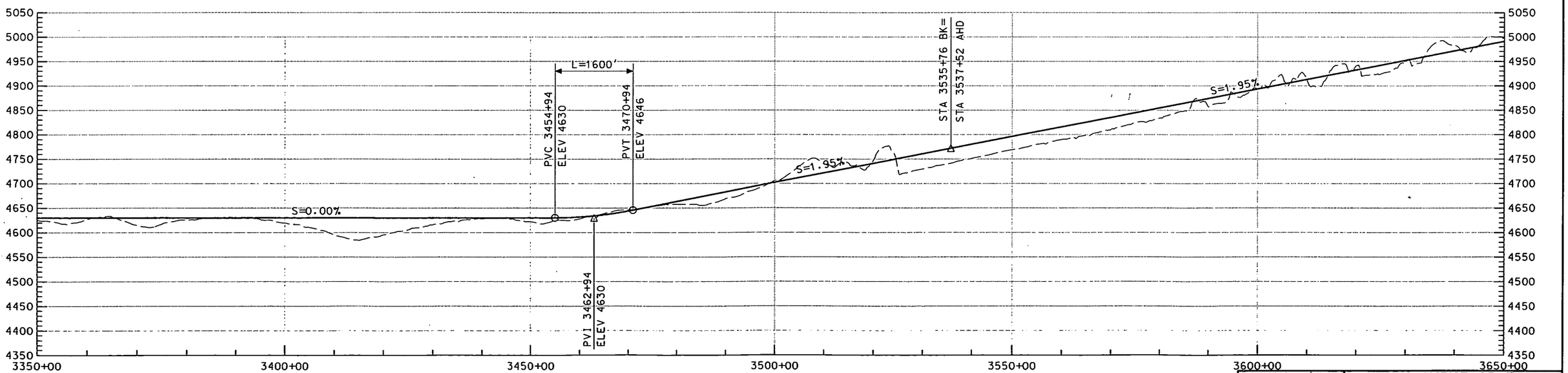
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET 14 OF 69





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GRAPHIC SCALE
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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DES	CHK	MCP	CLE	CCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
SPECIFICATION KLB	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
3350+00 TO 3650+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 15 OF 69

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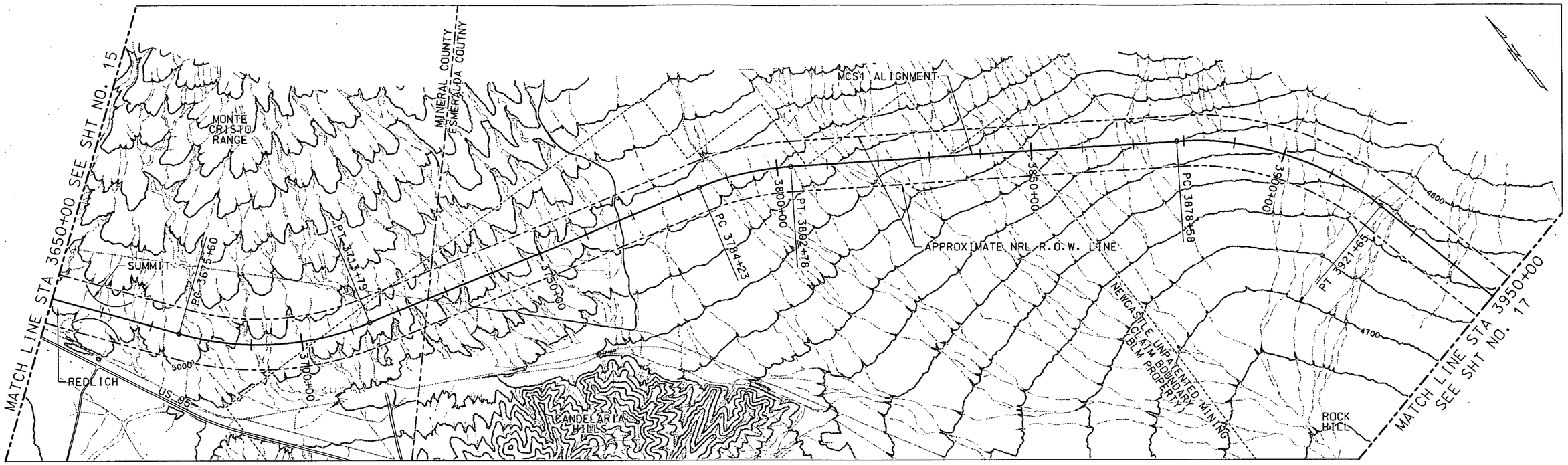

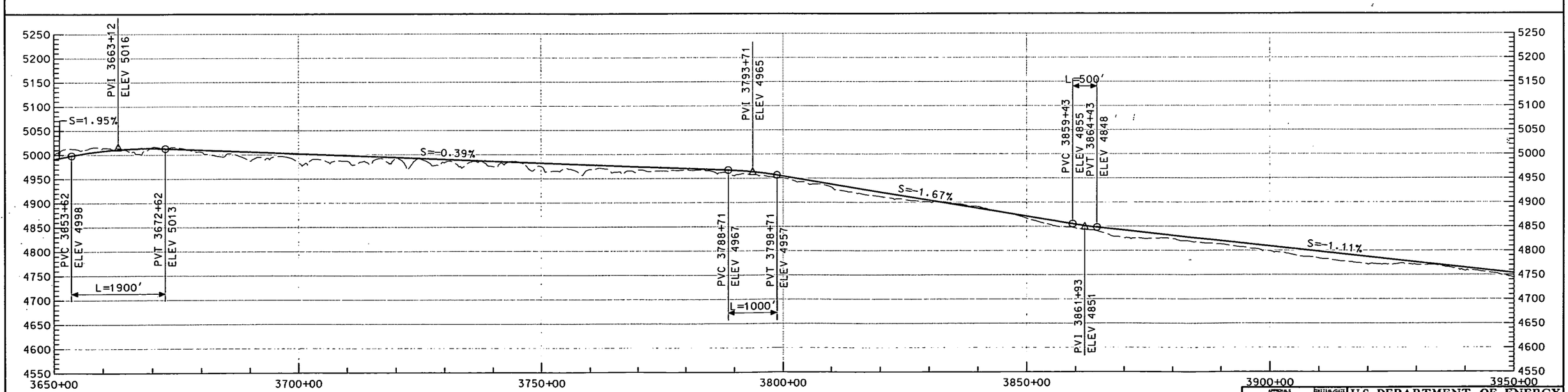

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CRC	CHK	WCP	CLK	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNER KLB	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
3650+00 TO 3950+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-MC10-PP-0016-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 16 OF 69

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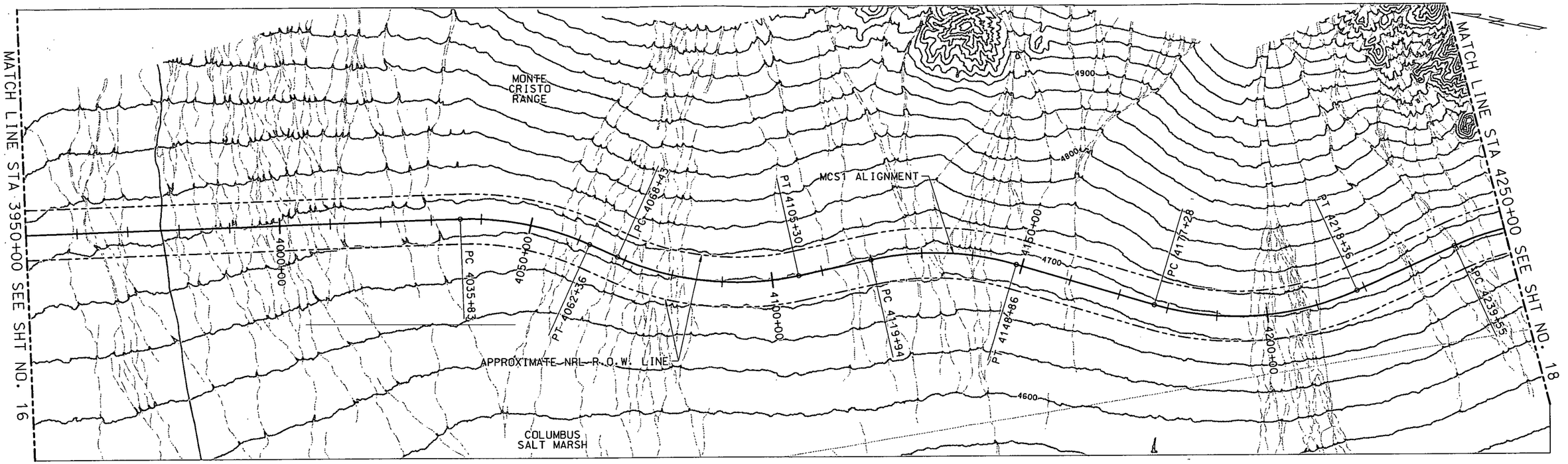

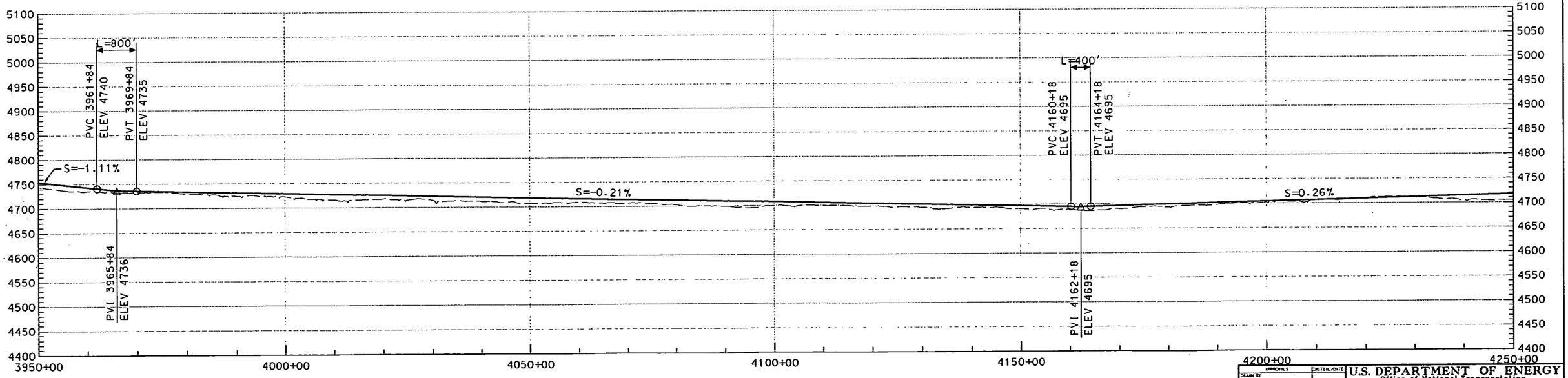

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

REV	DESCRIPTION	DATE	DRN	DSG	CHK	MCP	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

	APPROVALS	INITIAL/DATE
DRAWN BY	KLB	
DESIGNER	KLB	
CHECKED	SNE/LEM	
VERIFICATION	JRC	
DESIGN LEAD ENGINEER	LEM	
QUALITY ENGINEERING REP	TMS	
PROJECT ENGINEER	JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
3950+00 TO 4250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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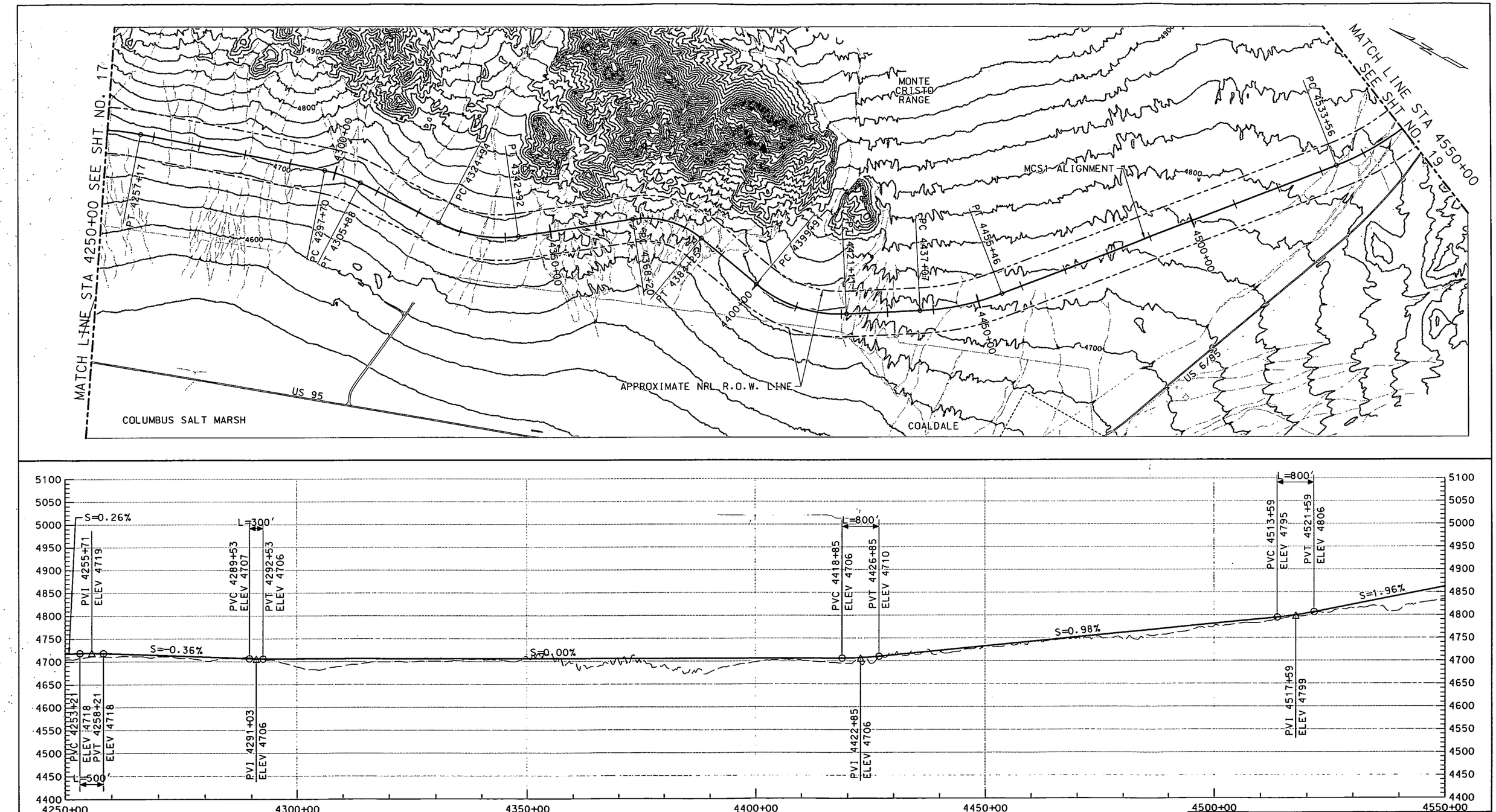
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 17 OF 69



THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR KLB	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
4250+00 TO 4550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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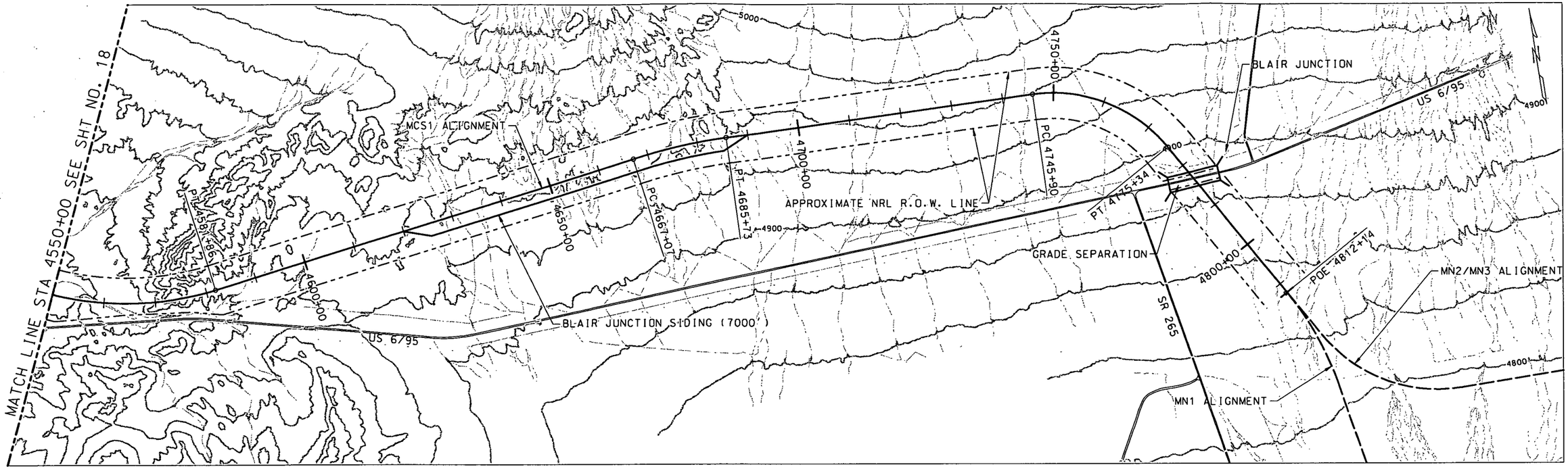
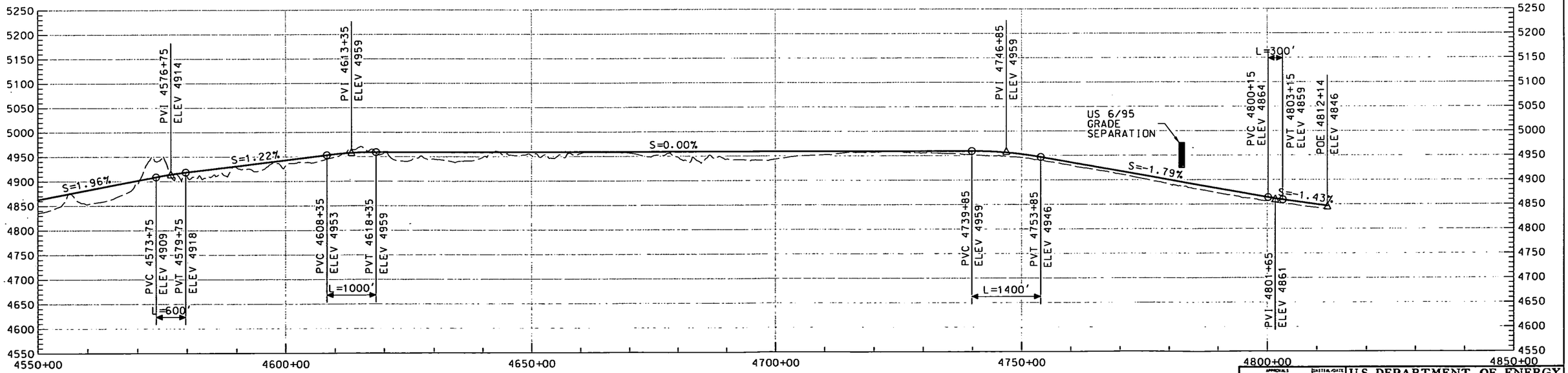
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V03.05.02.27	SHEET 18 OF 69





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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

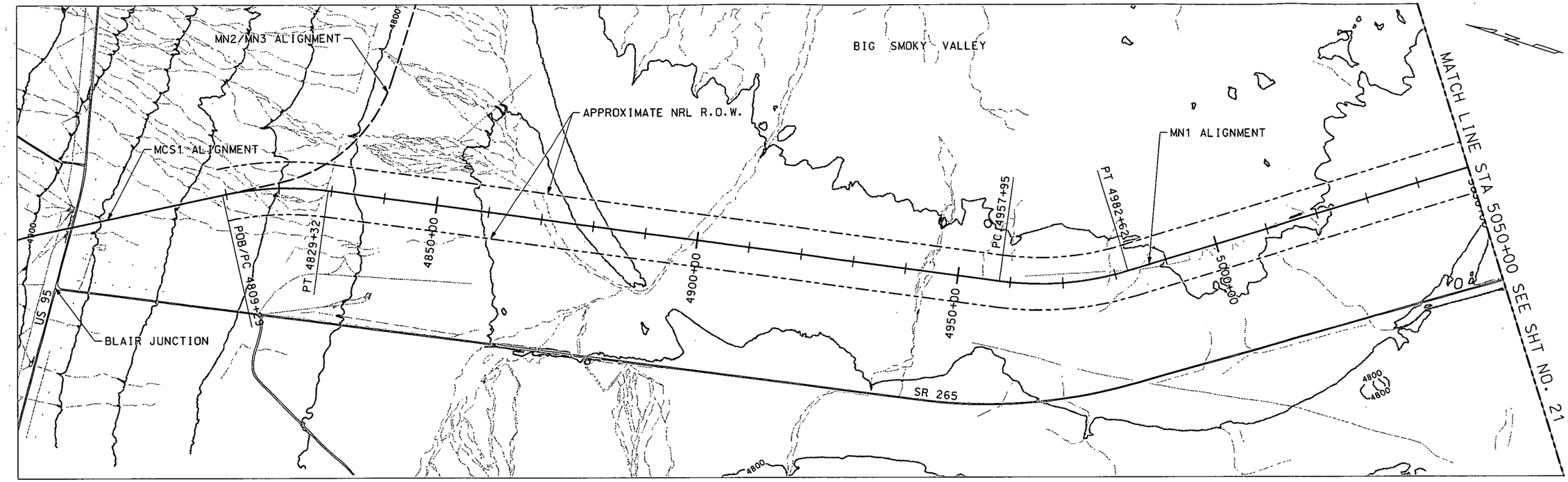
DRAWN BY	KLB
DESIGNATION	KLB
CHECKED	SNE/LEM
VERIFICATION	JRC
DESIGN LEAD ENGINEER	LEM
QUALITY ENGINEERING REP	TMS
PROJECT ENGINEER	JRC

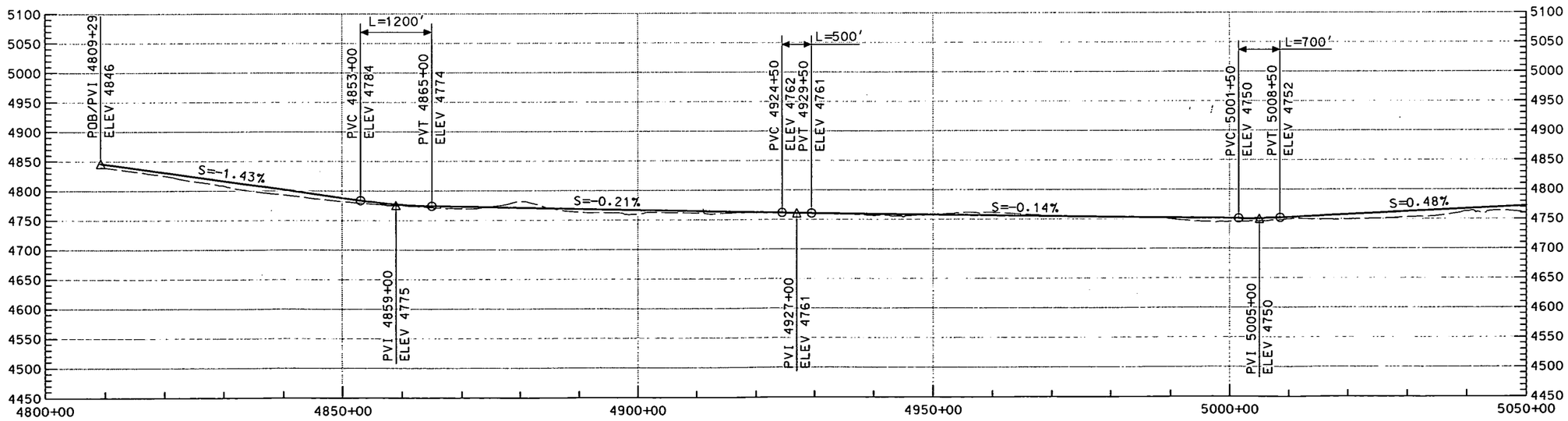
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MCS1
4550+00 TO 4812+14

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-MC13-PP-0019-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET 19 OF 69





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GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	MGR	DLK	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
DESIGNER MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
4809+29 TO 5050+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M101-PP-0020-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 20 OF 69

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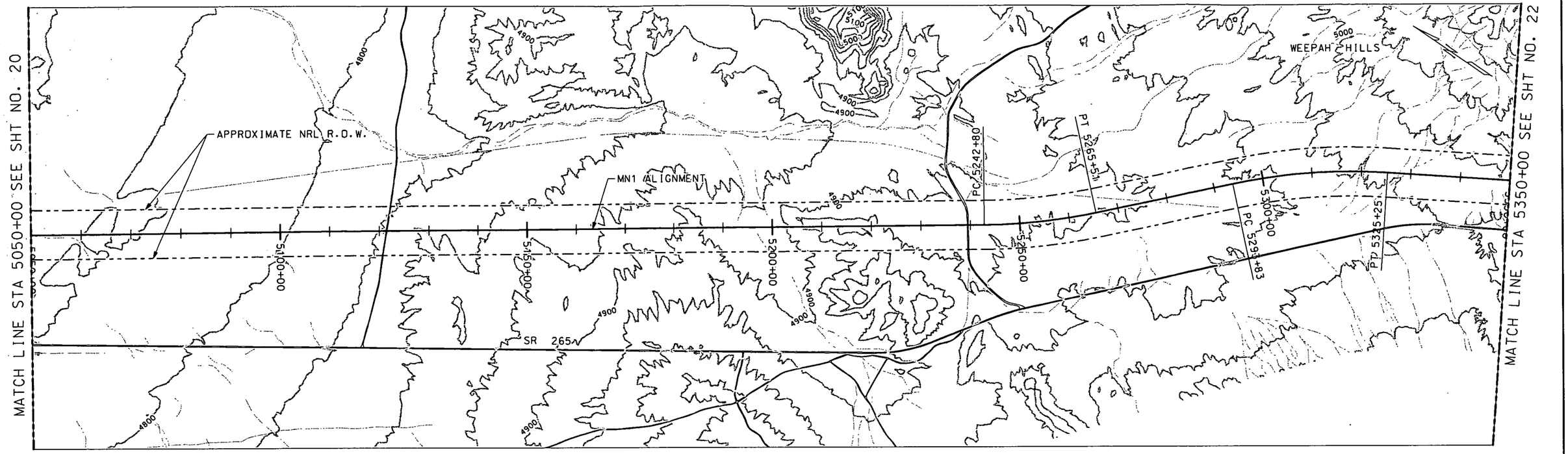

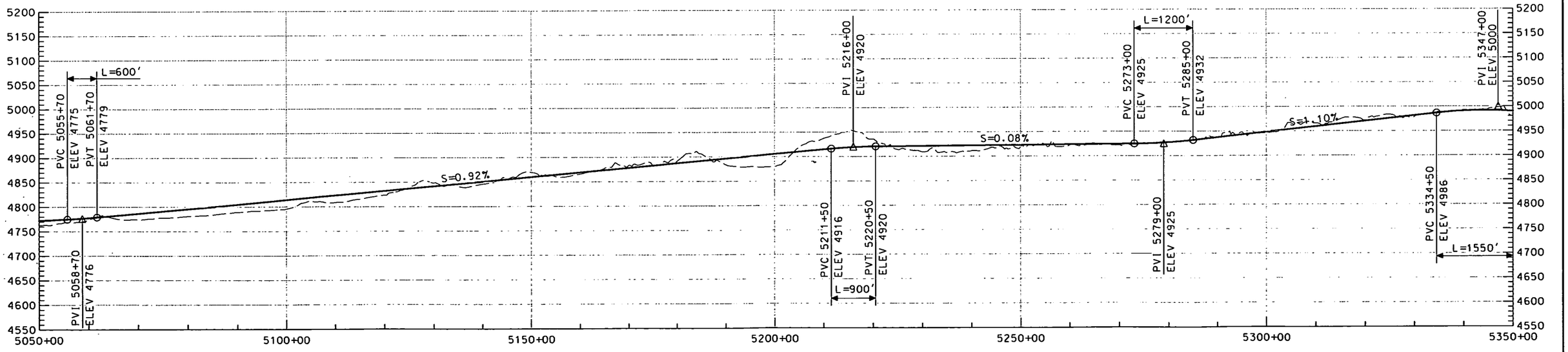

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VCR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/SIGNATURE
DRAWN BY: EMC	
DESIGNATOR: MAL	
CHECKED: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
5050+00 TO 5350+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M102-PP-0021-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V03.05.02.27	SHEET 21 OF 69

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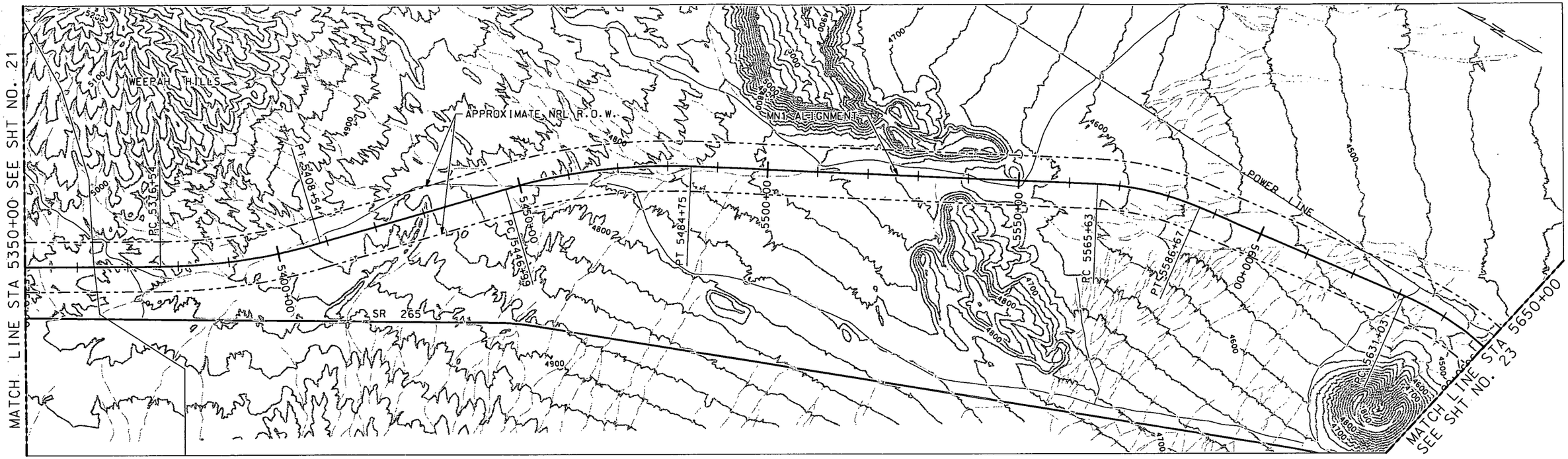

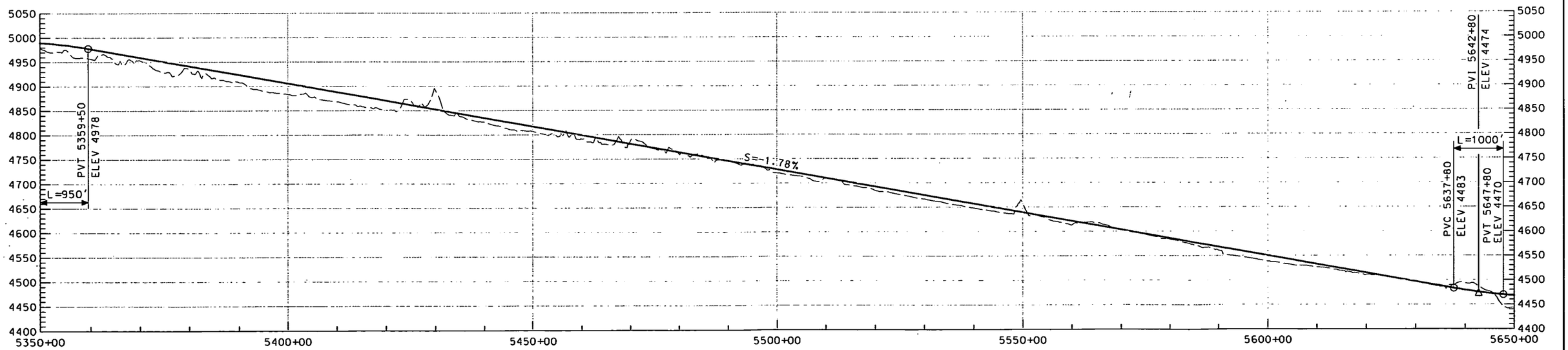

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	DSG	CHK	VCR	CLK	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEER/NRC REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
5350+00 TO 5650+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M103-PP-0022-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 22 OF 69

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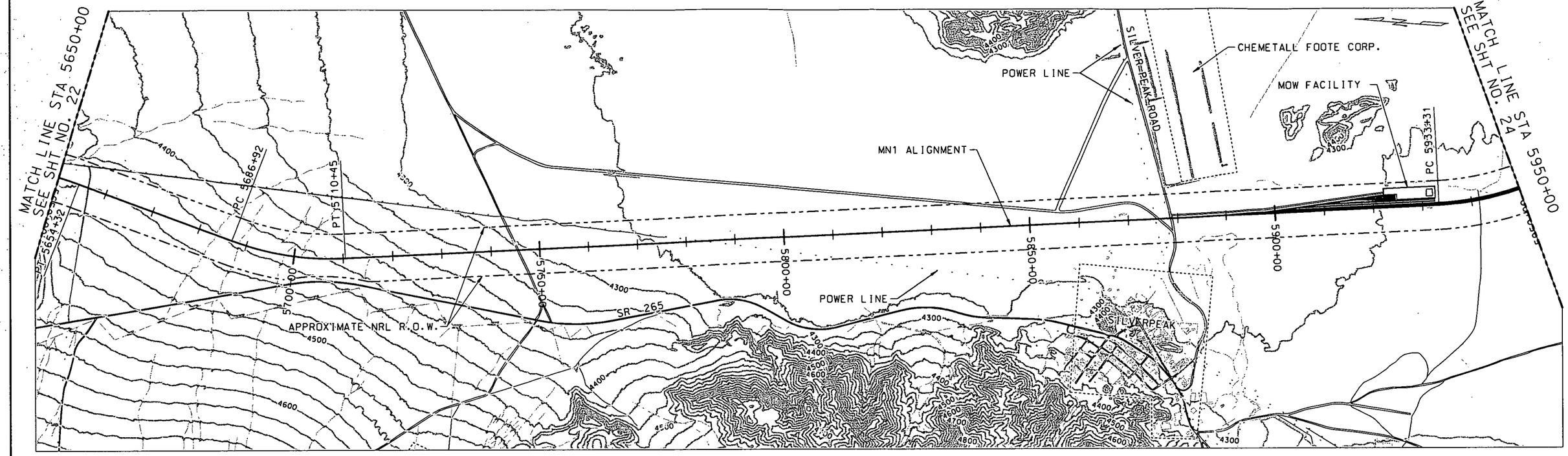

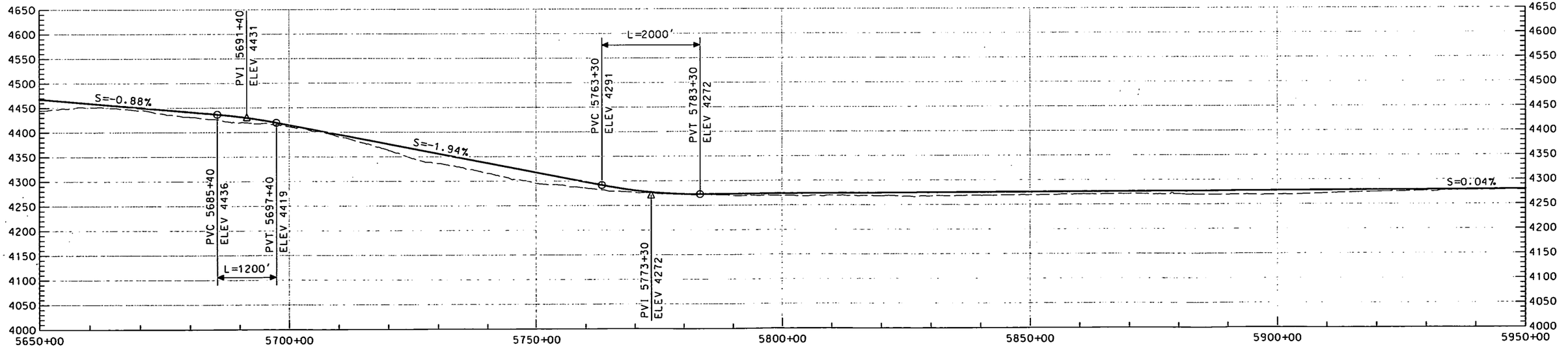

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VCR	DLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY ENC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
5650+00 TO 5950+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M104-PP-0023-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 23 OF 69

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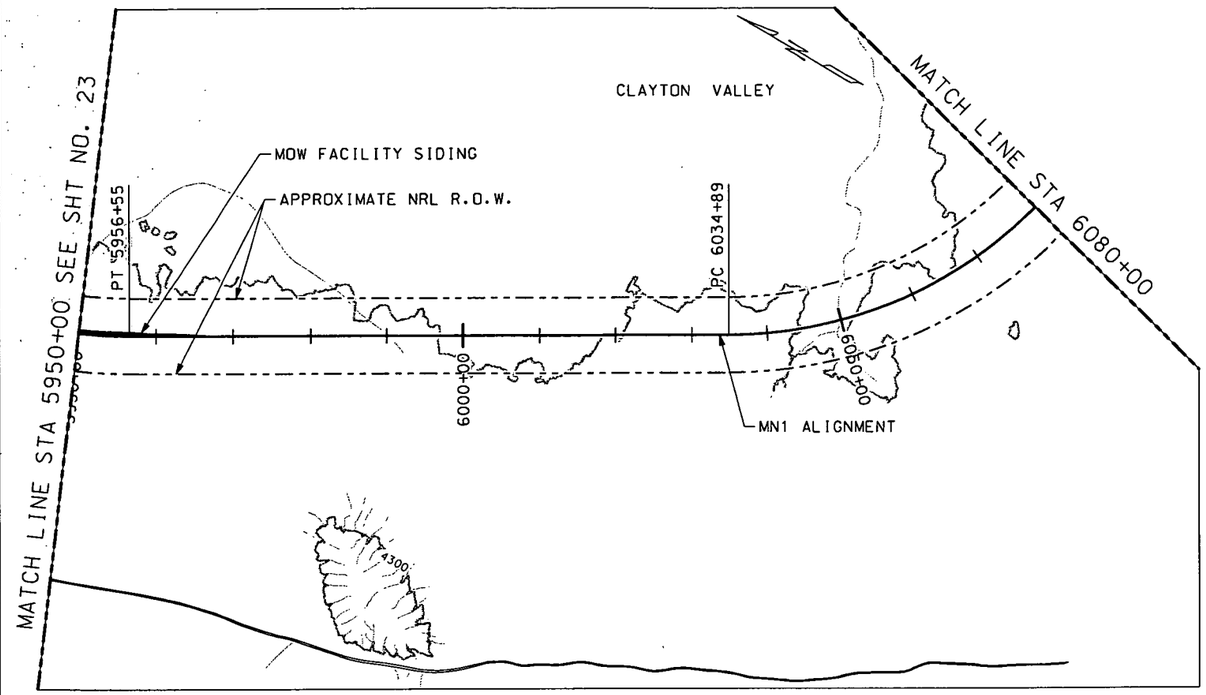

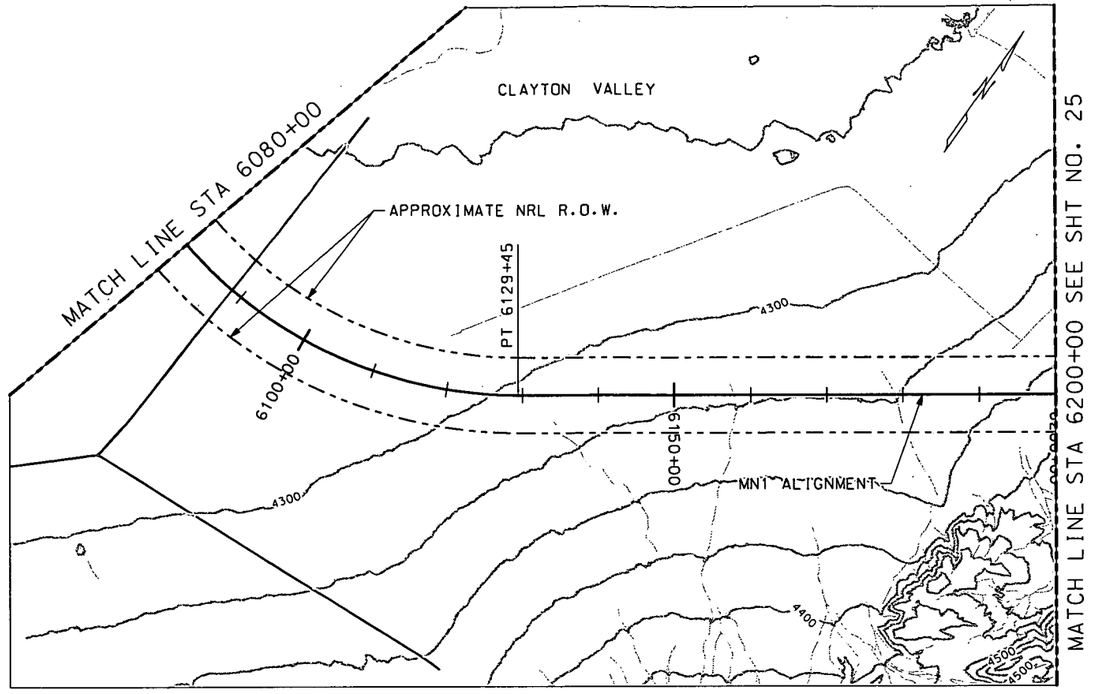

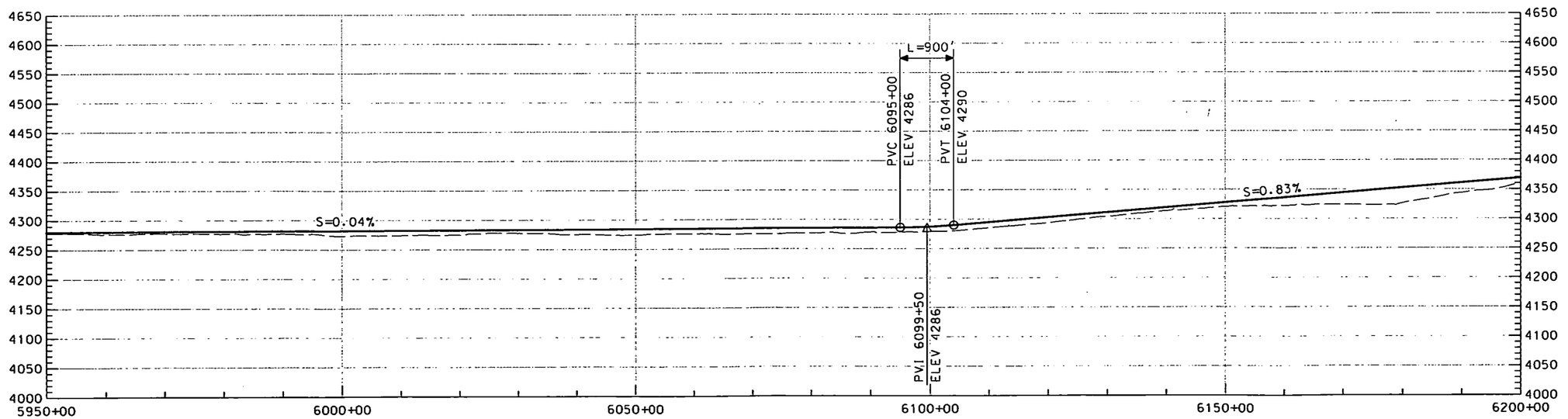

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
5950+00 TO 6200+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-0-M105-PP-0024-00	00
SAFETY CATEGORY	CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 24 OF 69	

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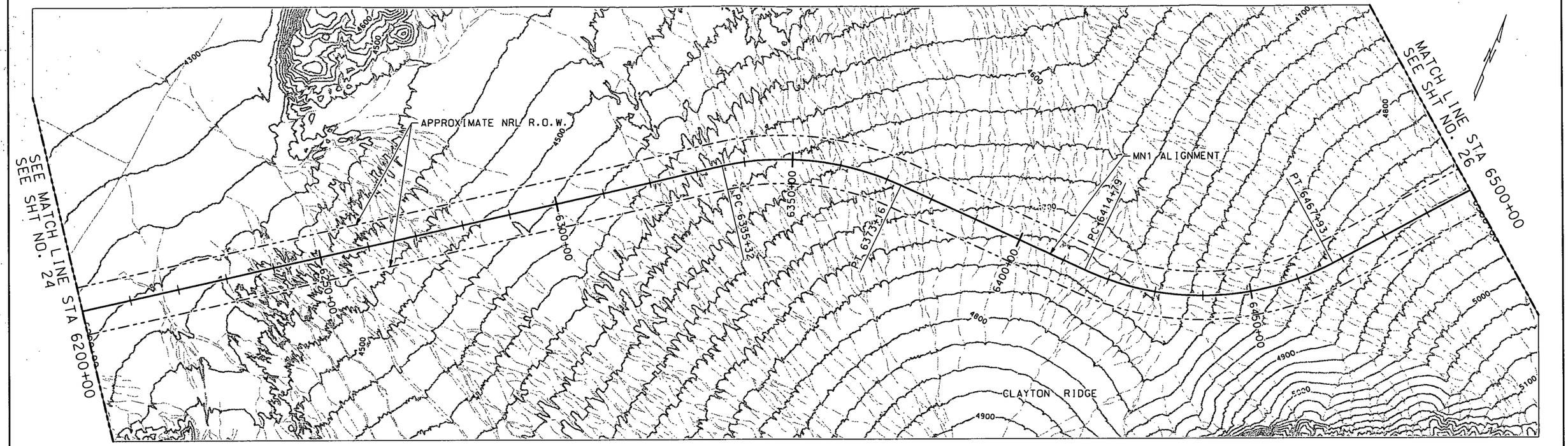

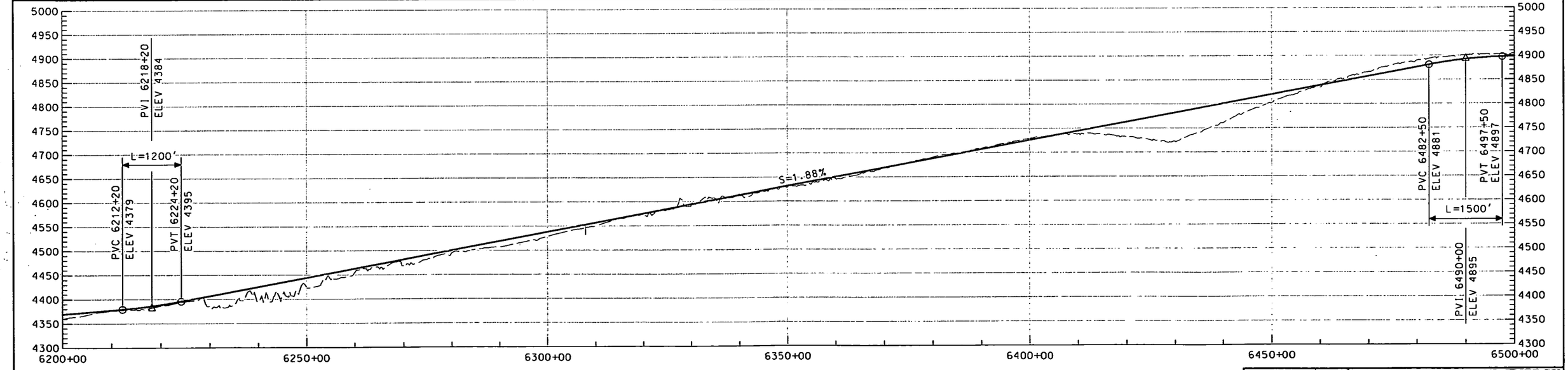

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VCR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS		CRITICAL DATE
DRAWN BY	ENC	
ORIGINATOR	MAL	
CHECKER	SNE	
VERIFICATION	JRC	
DESIGN LEAD ENGINEER	LEM	
QUALITY ENGINEERING REP	TNS	
PROJECT ENGINEER	JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
6200+00 TO 6500+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M106-PP-0025-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 25 OF 69

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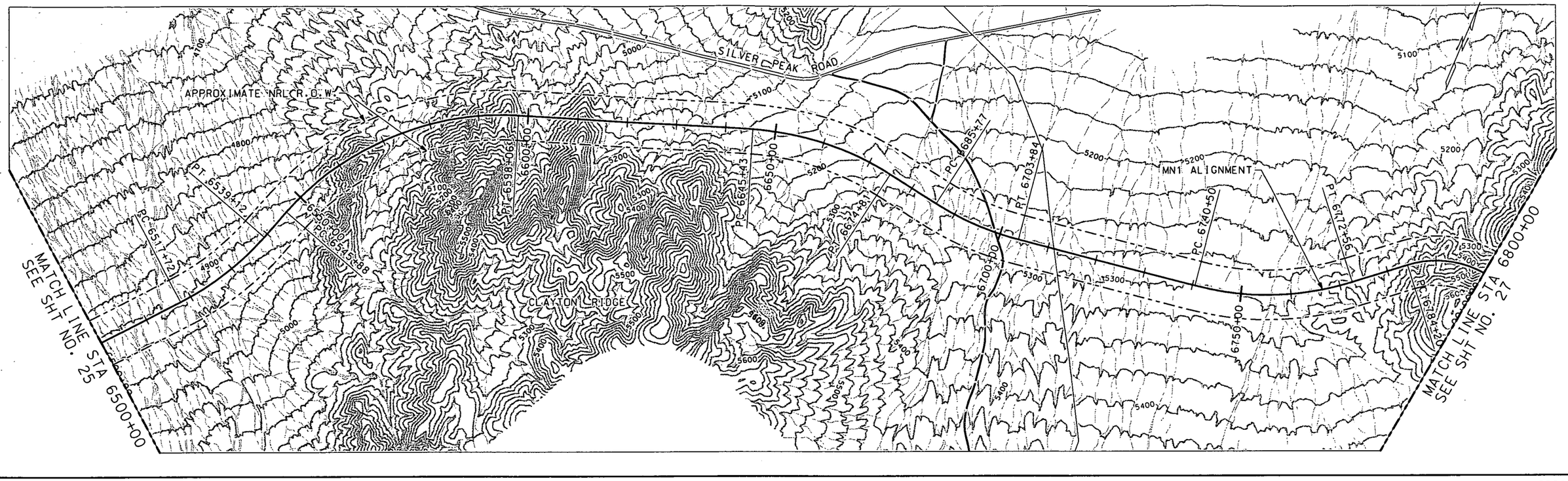

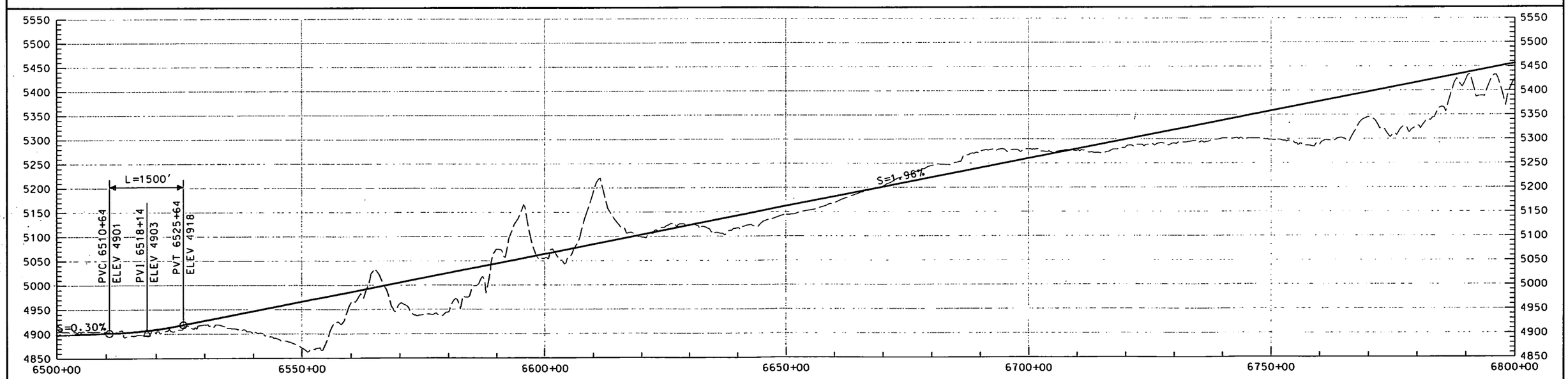

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CRC	CHK	VCR	CLR	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1
6500+00 TO 6800+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M107-PP-0026-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 26 OF 69

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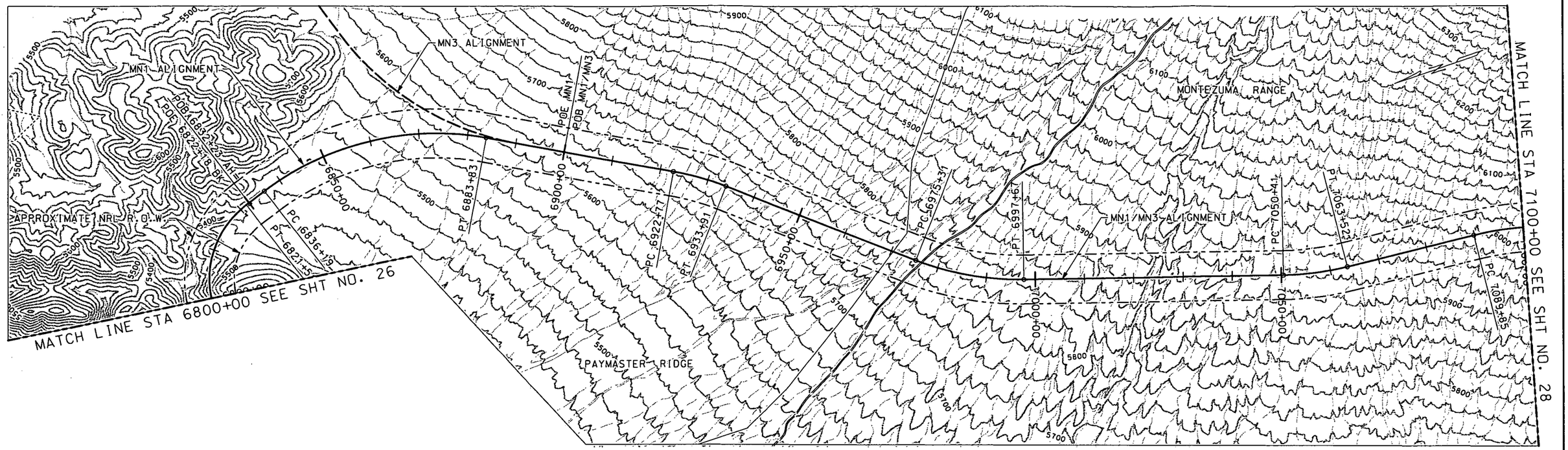

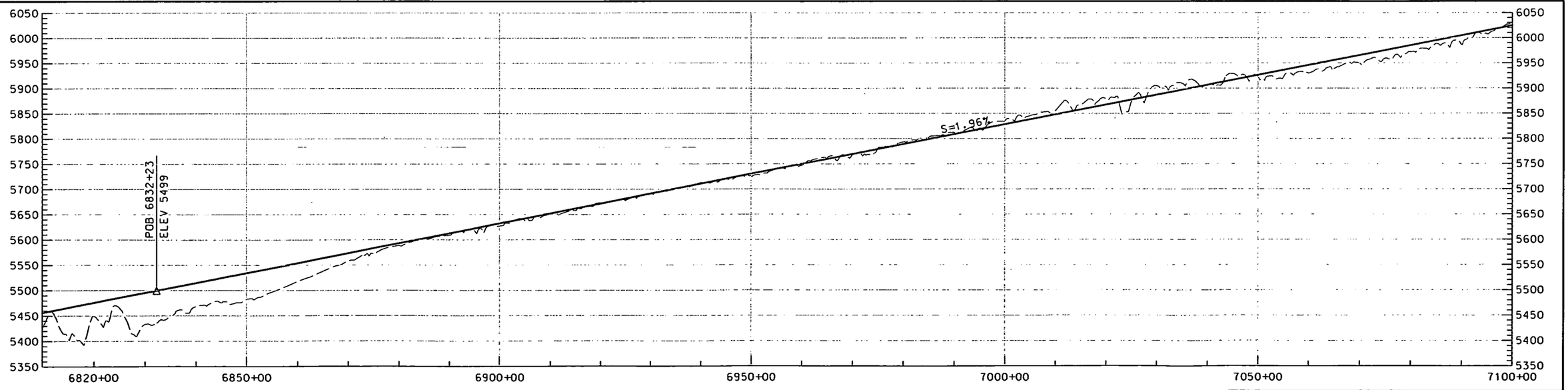

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TNS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
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BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
6800+00 TO 7100+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M108-PP-0027-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 27 OF 69

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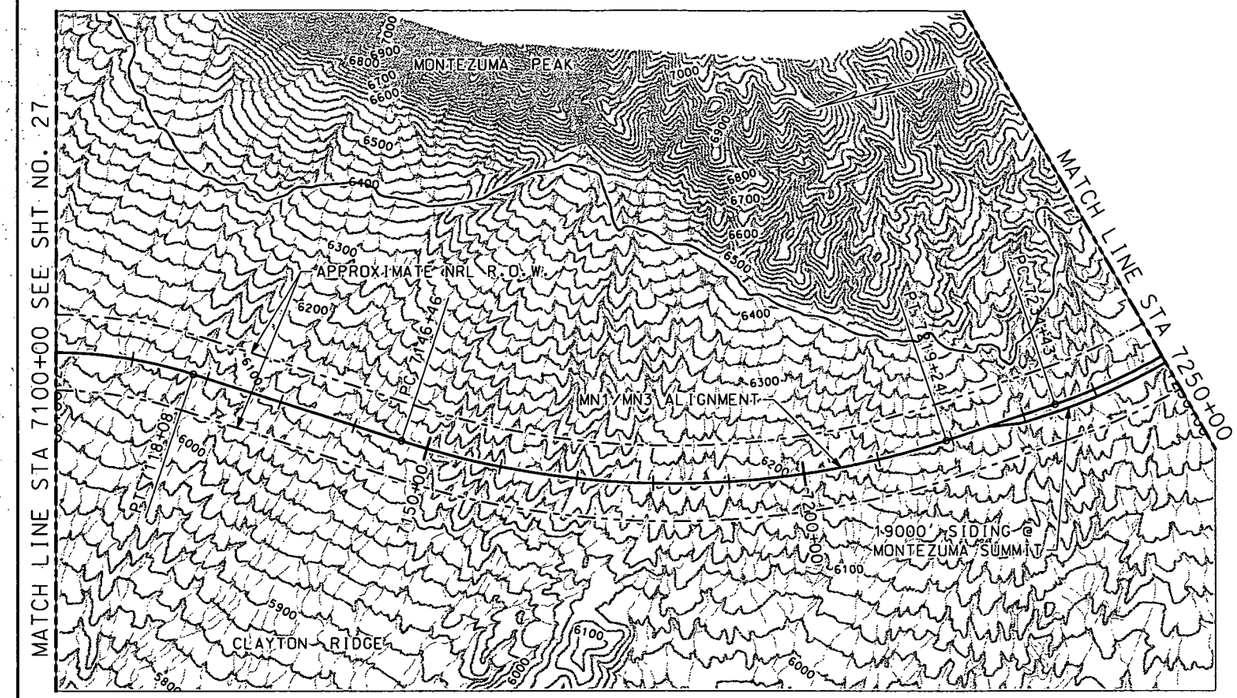

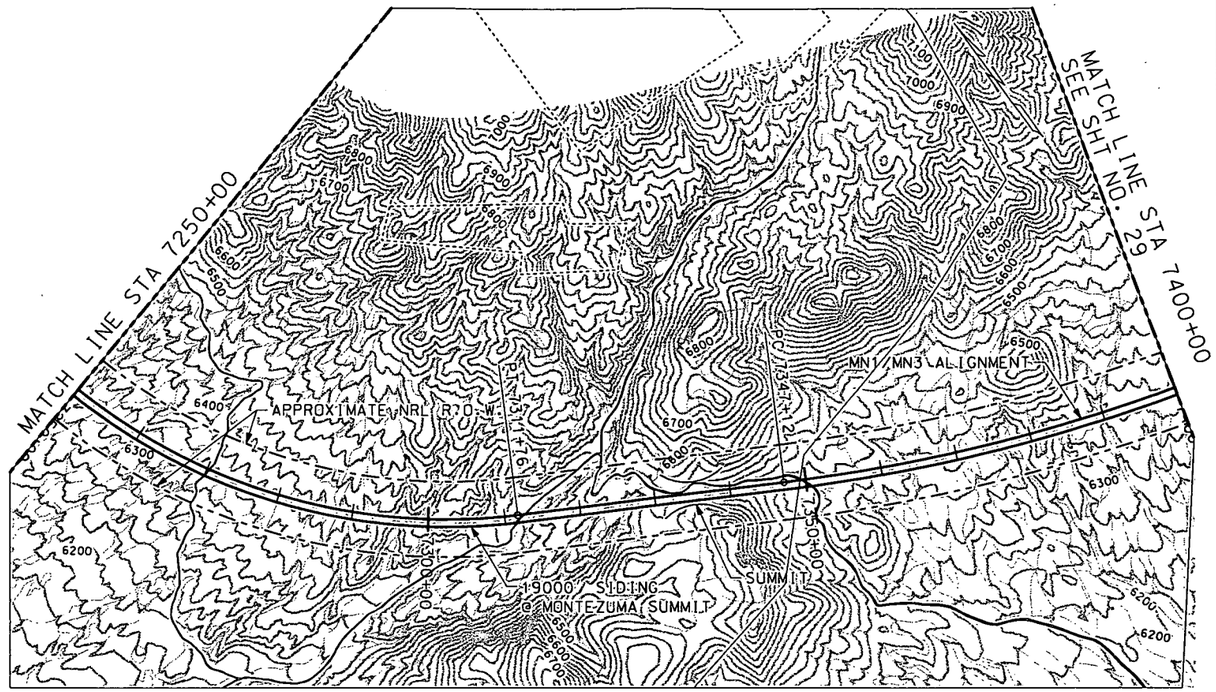

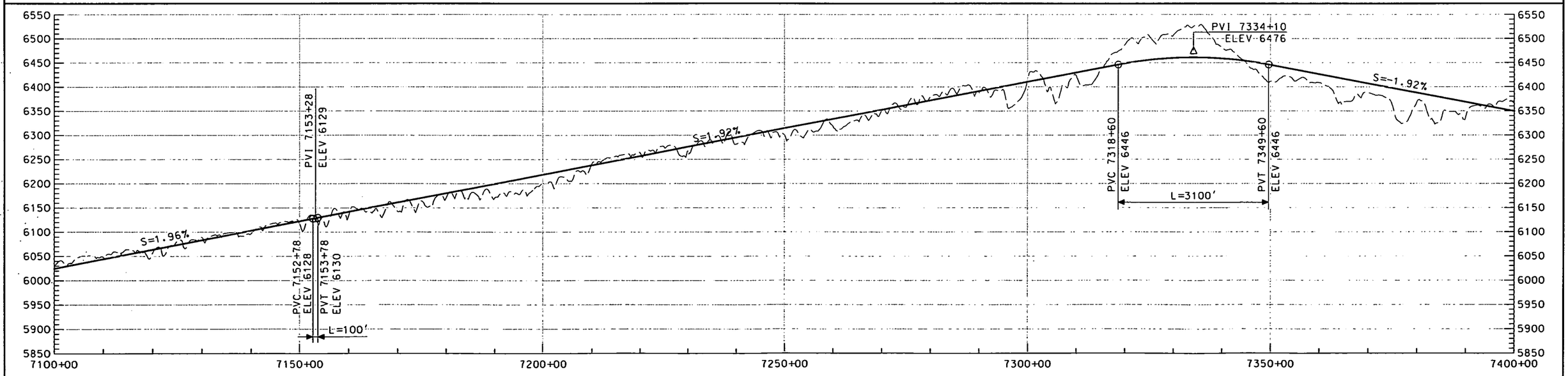

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GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TNS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
7100+00 TO 7400+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M109-PP-0028-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 28 OF 69

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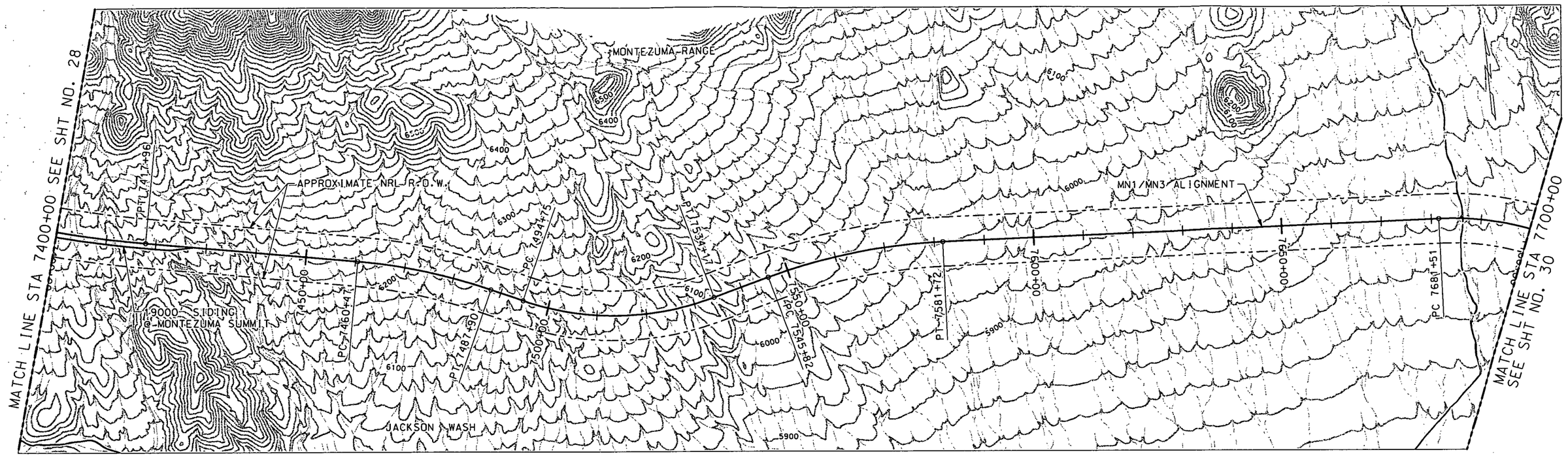

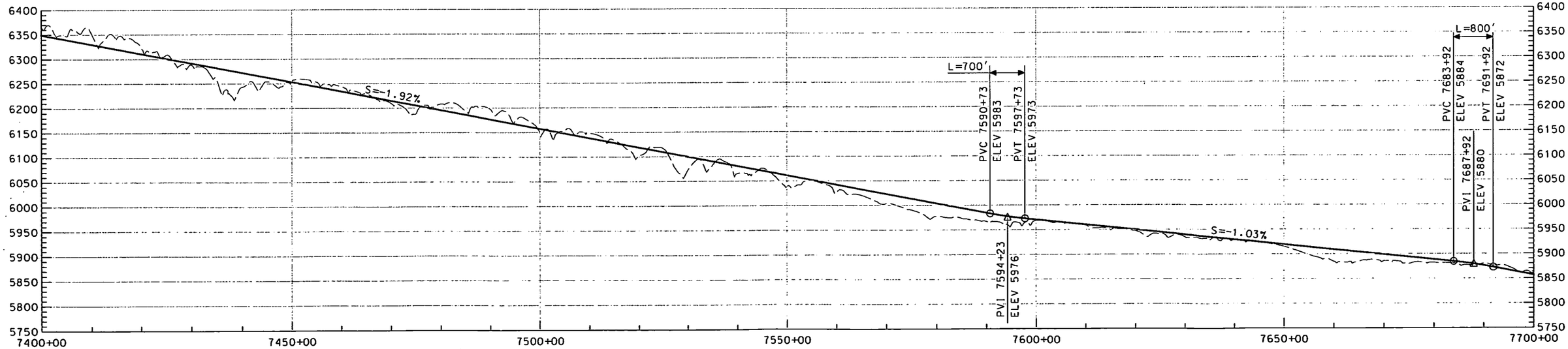

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLG	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIALS/DATE
DRAWN BY EMC	
DESIGNER MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
7400+00 TO 7700+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M110-PP-0029-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 29 OF 69

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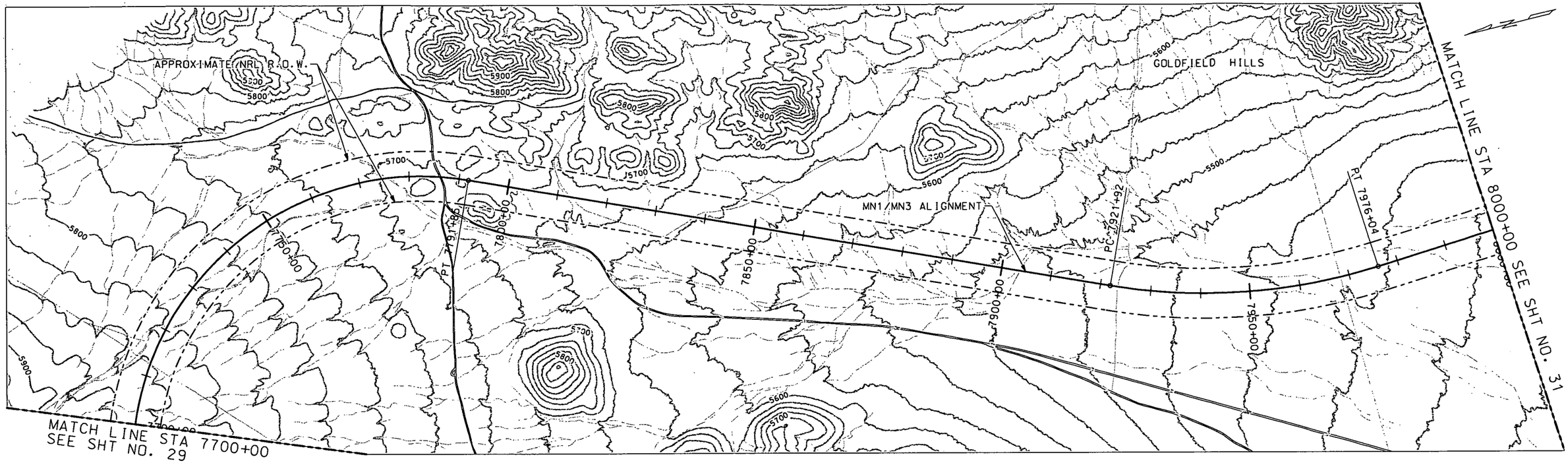

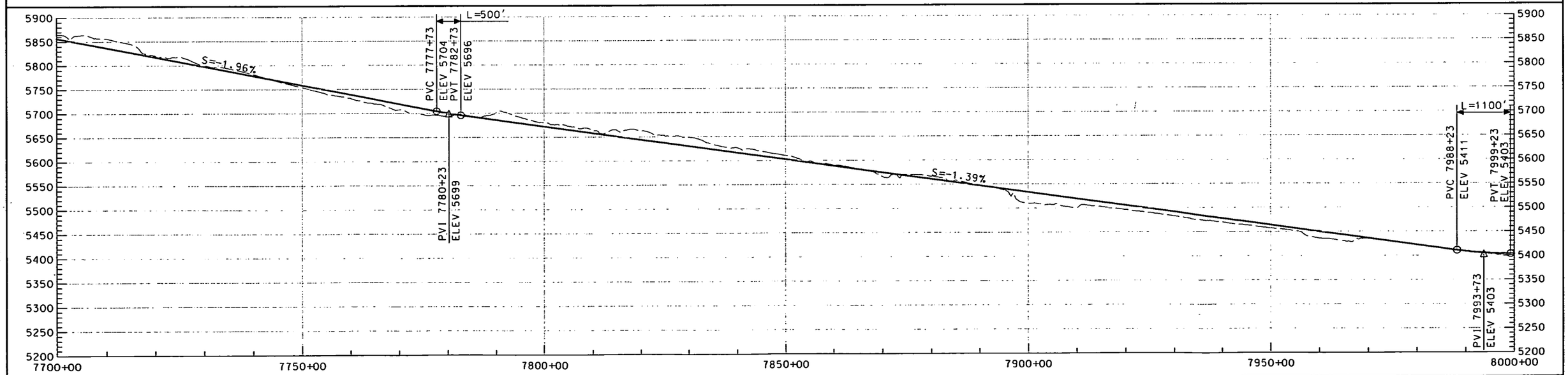

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	ORN	CHK	CHK	VER	CLE	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIALS/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
7700+00 TO 8000+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M111-PP-0030-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 30 OF 69

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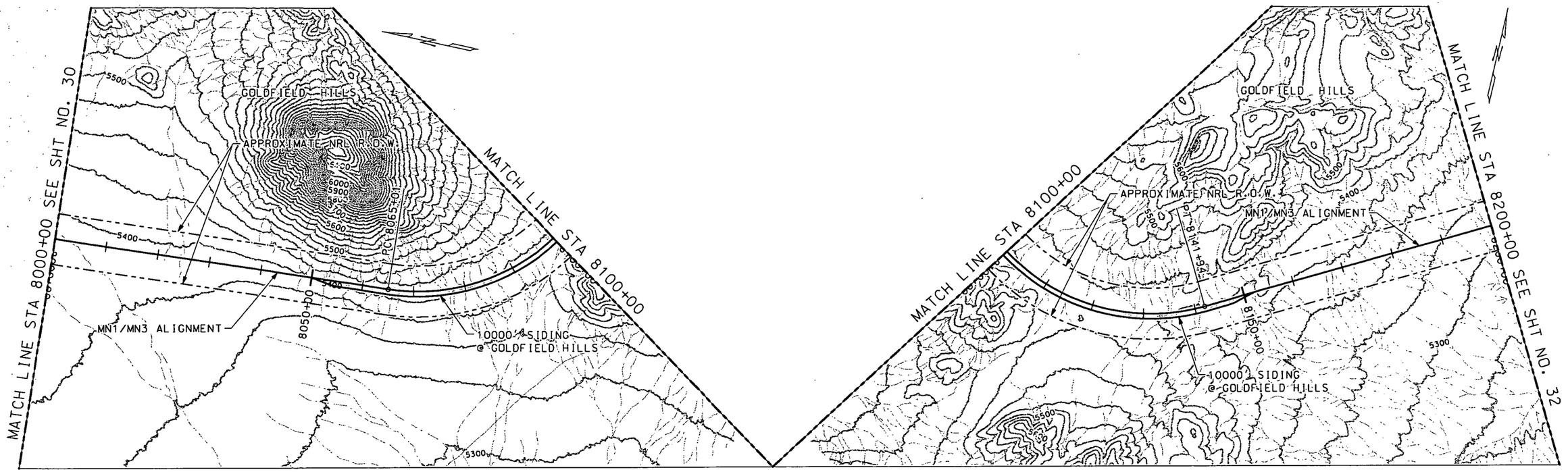

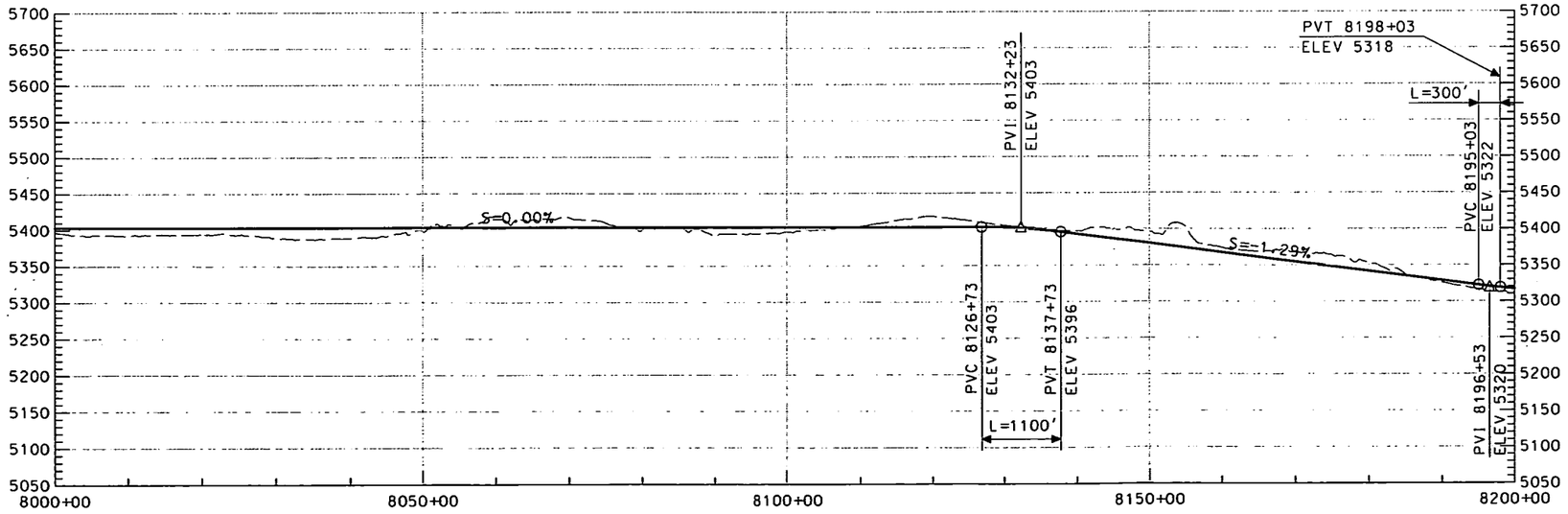

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	DATE/INITIALS
DRAWN BY EMC	
DESIGNER MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
8000+00 TO 8200+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M112-PP-0031-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 31 OF 69

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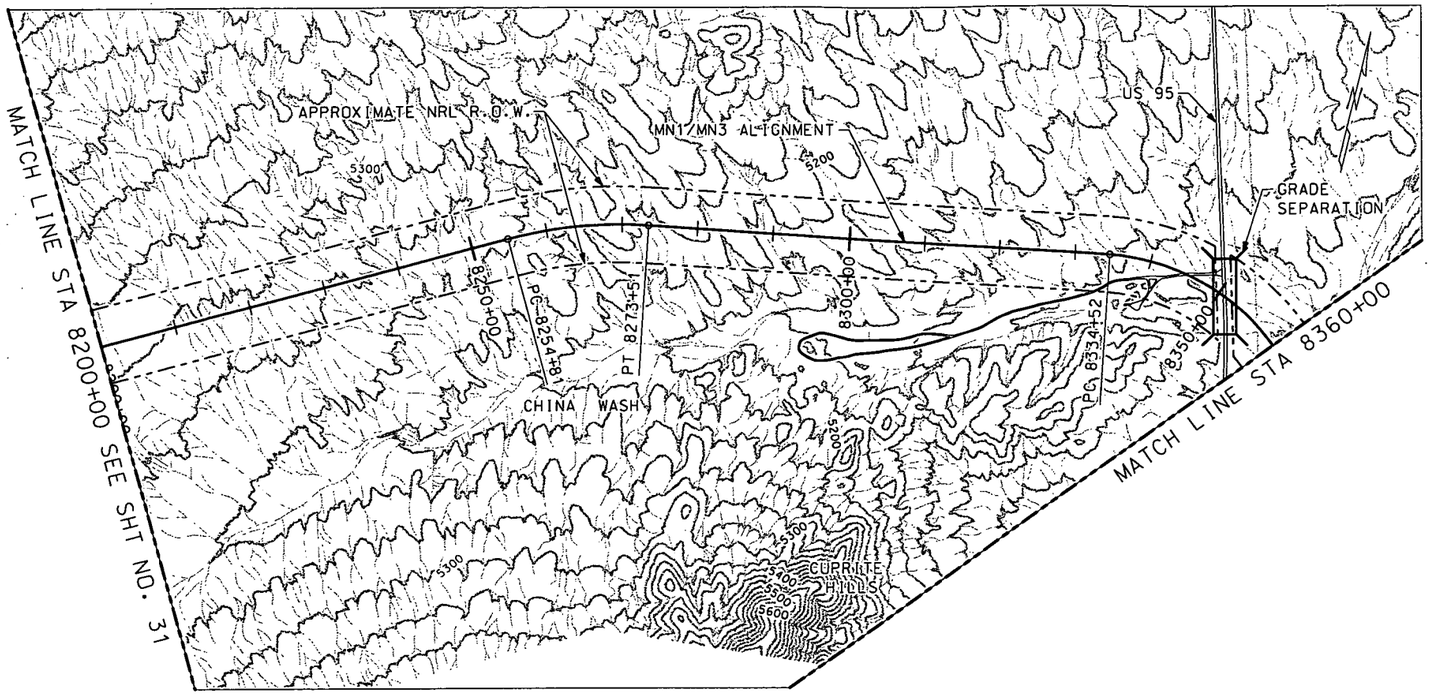
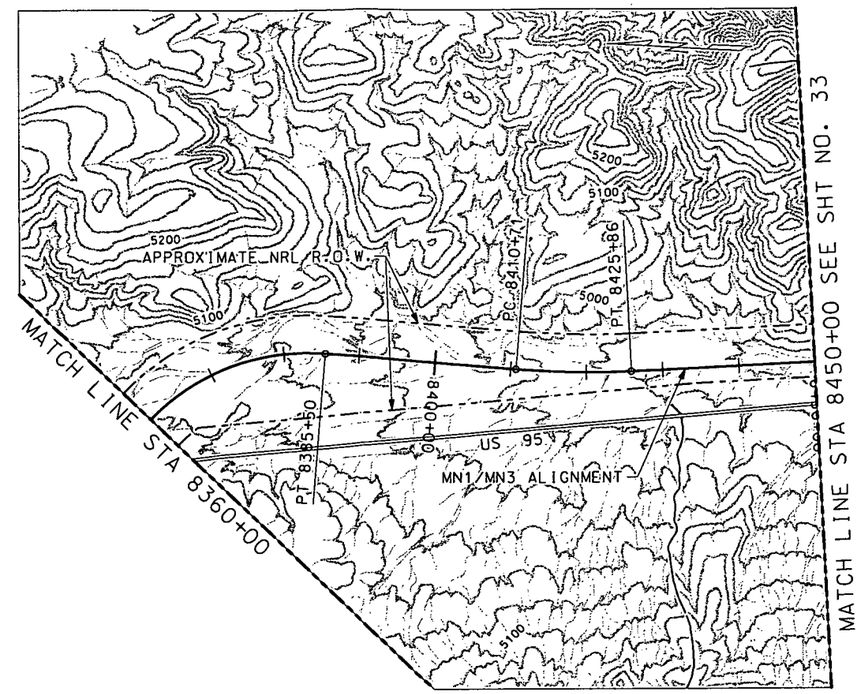
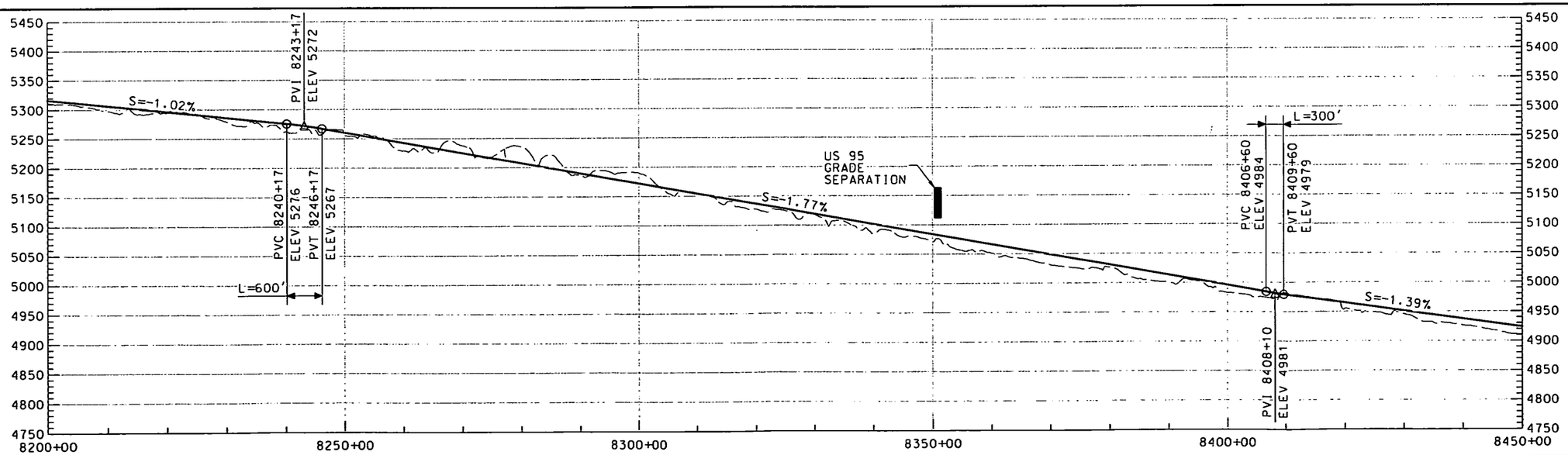






THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	CLE	CER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

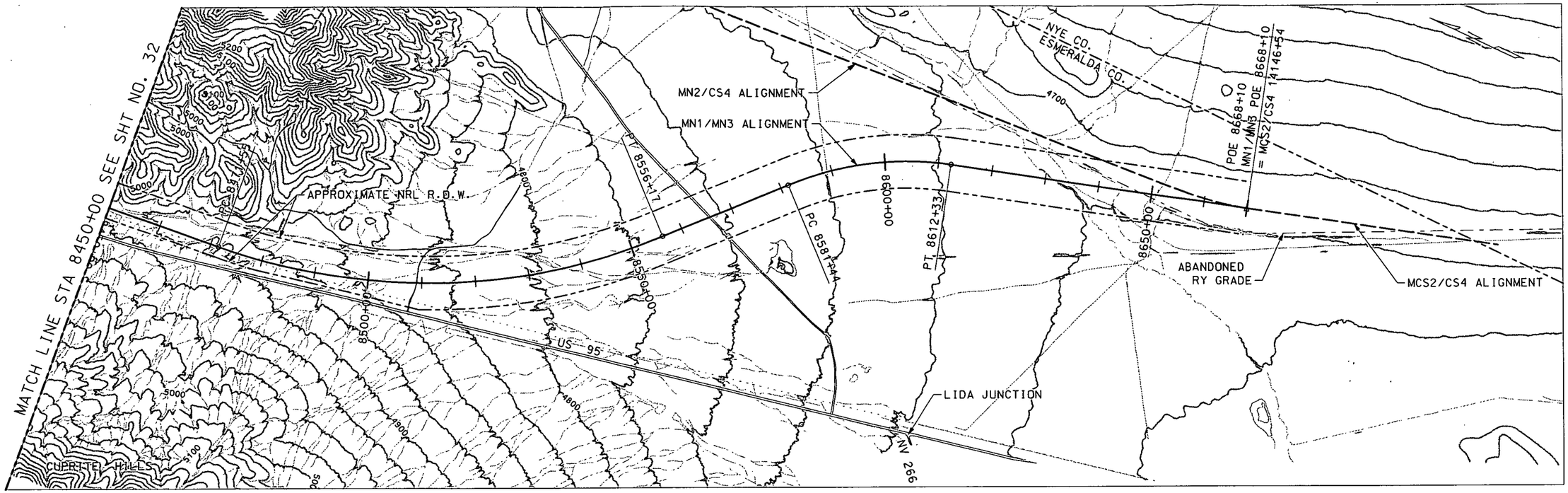
APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

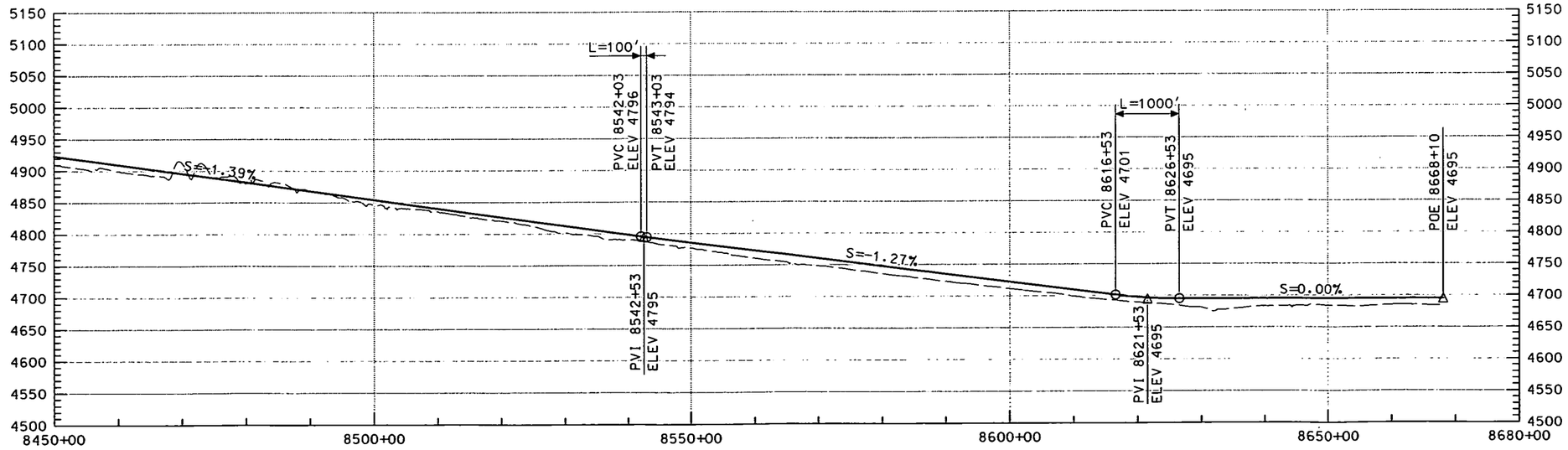
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
8200+00 TO 8450+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M113-PP-0032-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 32 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ERC	CHK	WCH	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN1/MN3
8450+00 TO 8668+10

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M114-PP-0033-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 33 OF 69

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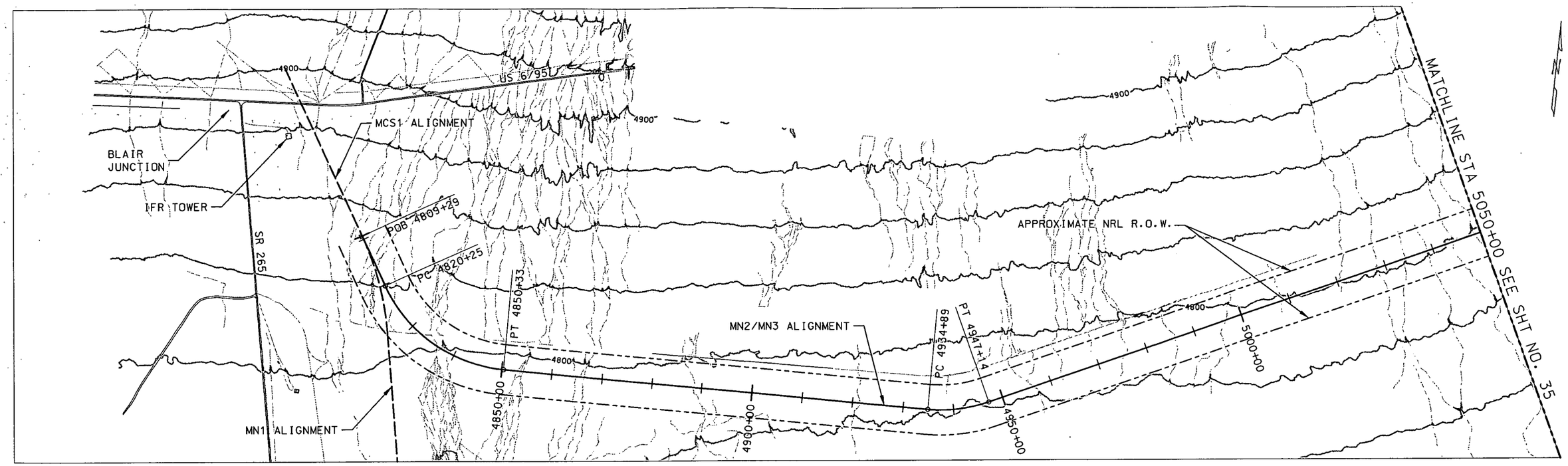

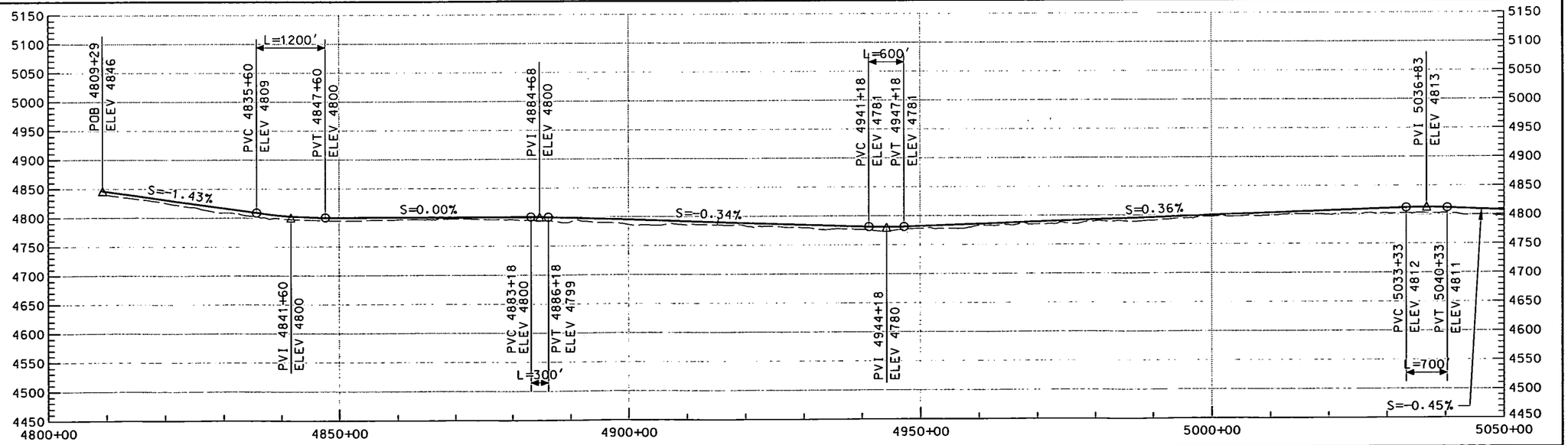

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	MGR	CLE	CEP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
4809+29 TO 5050+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M201-PP-0034-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 34 OF 69

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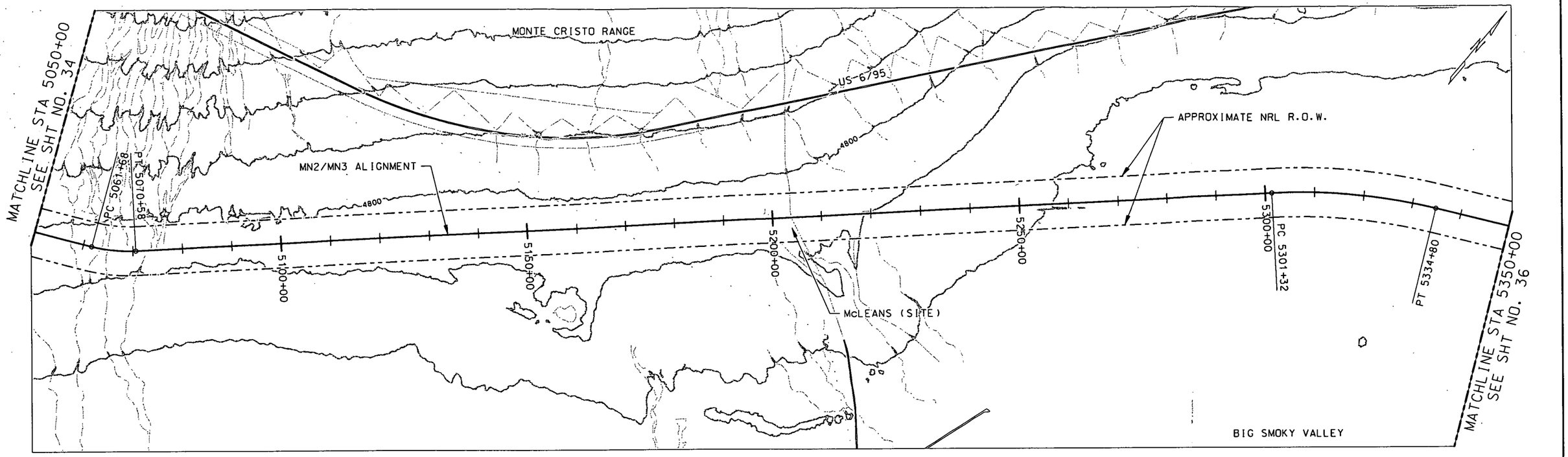

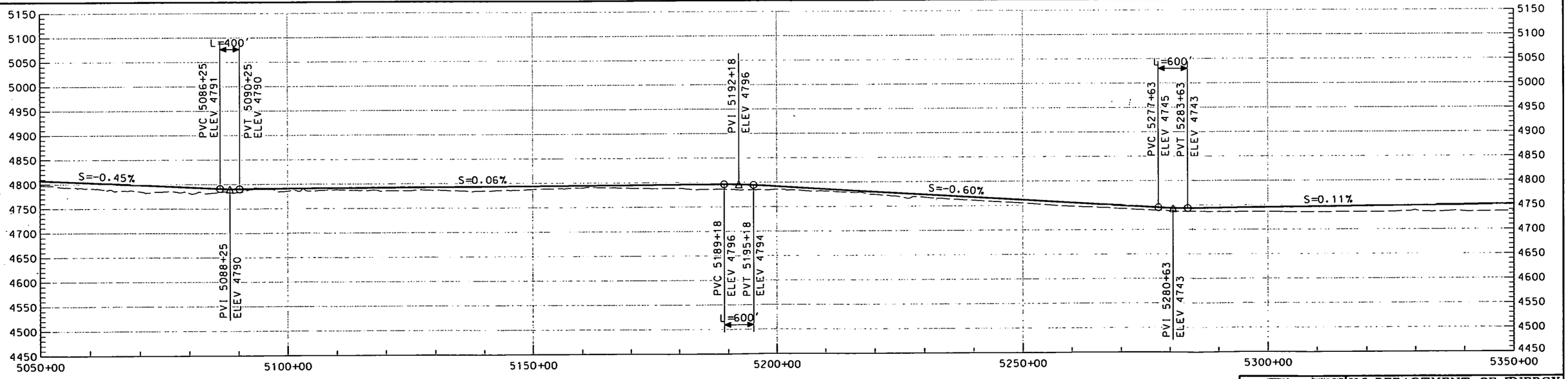

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VCR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/INITIALS
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
5050+00 TO 5350+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M202-PP-0035-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 35 OF 69

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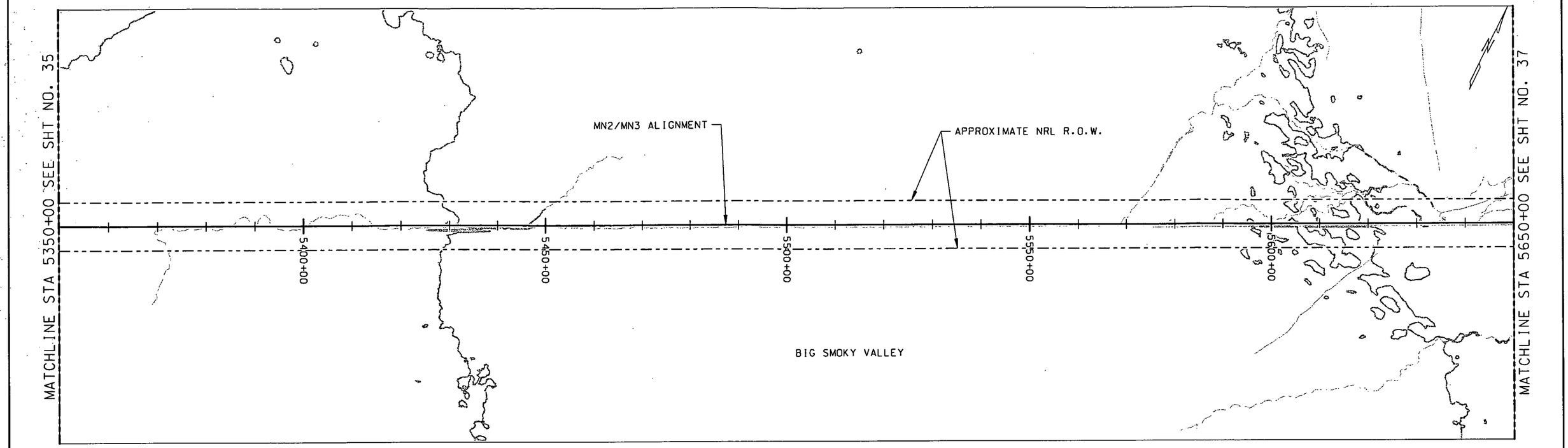

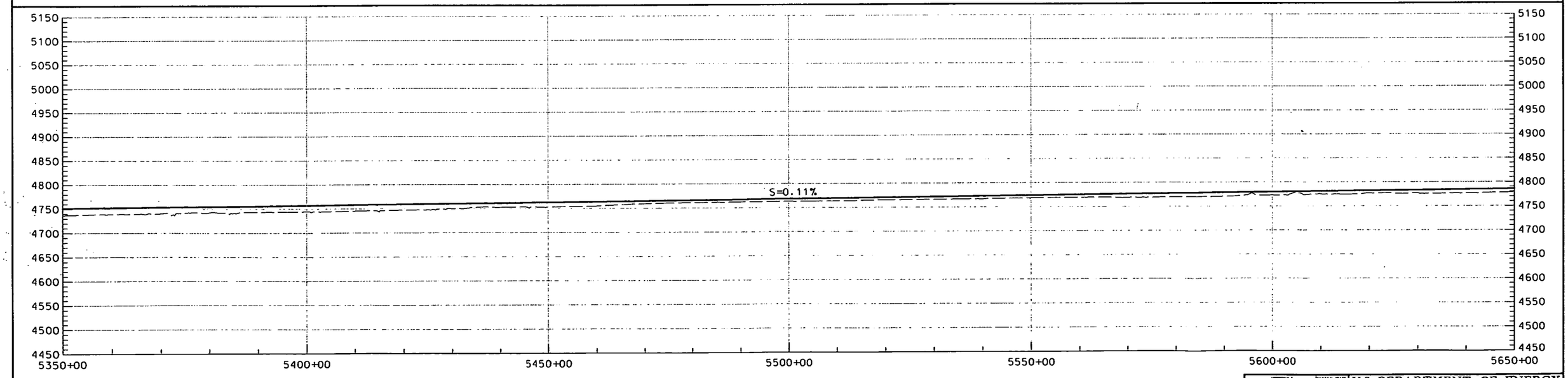

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: KLB	
DESIGNATOR: YBM	
CHECKED: SNE/LEM	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
5350+00 TO 5650+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M203-PP-0036-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 36 OF 69

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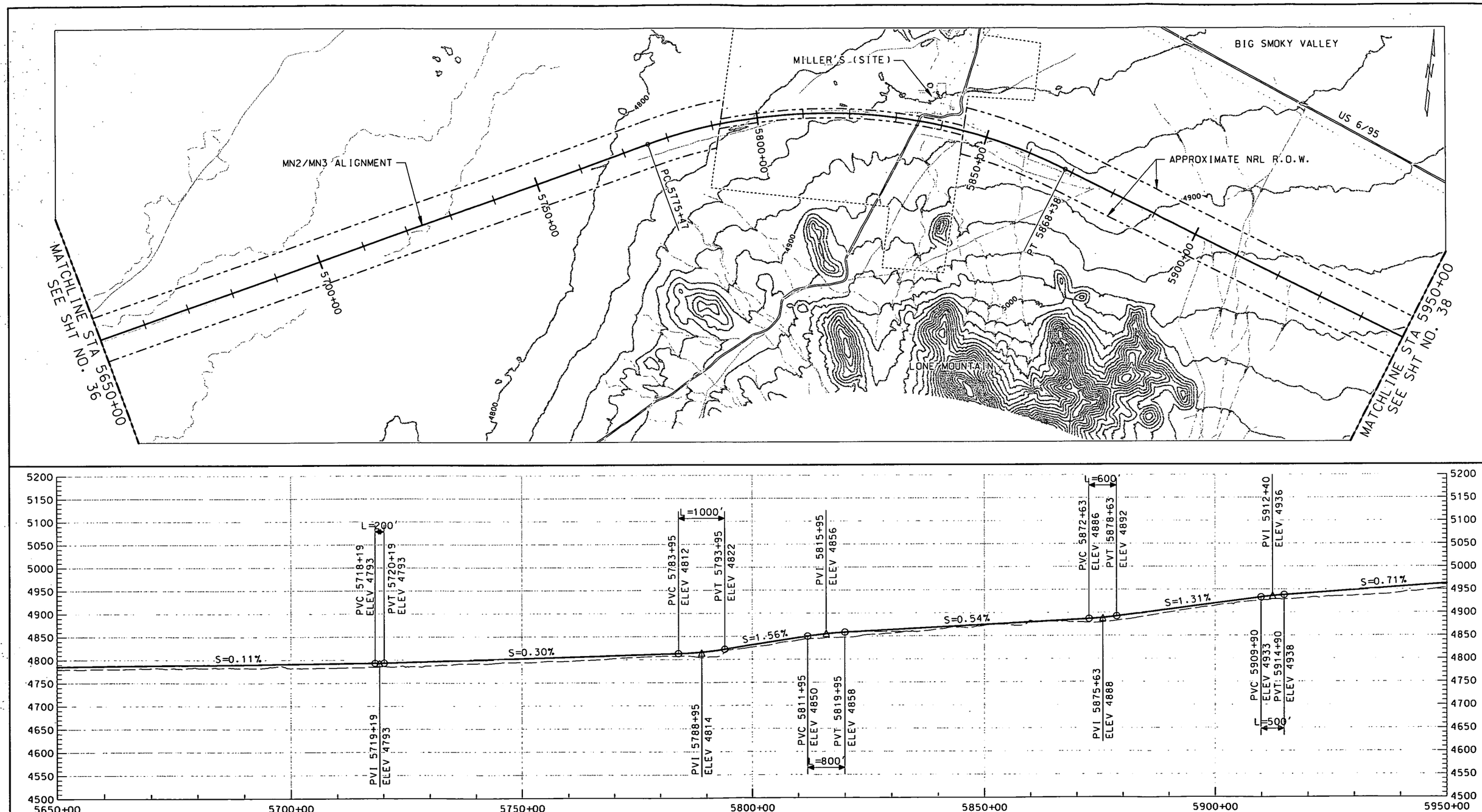

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	CLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
5650+00 TO 5950+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M204-PP-0037-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 37 OF 69

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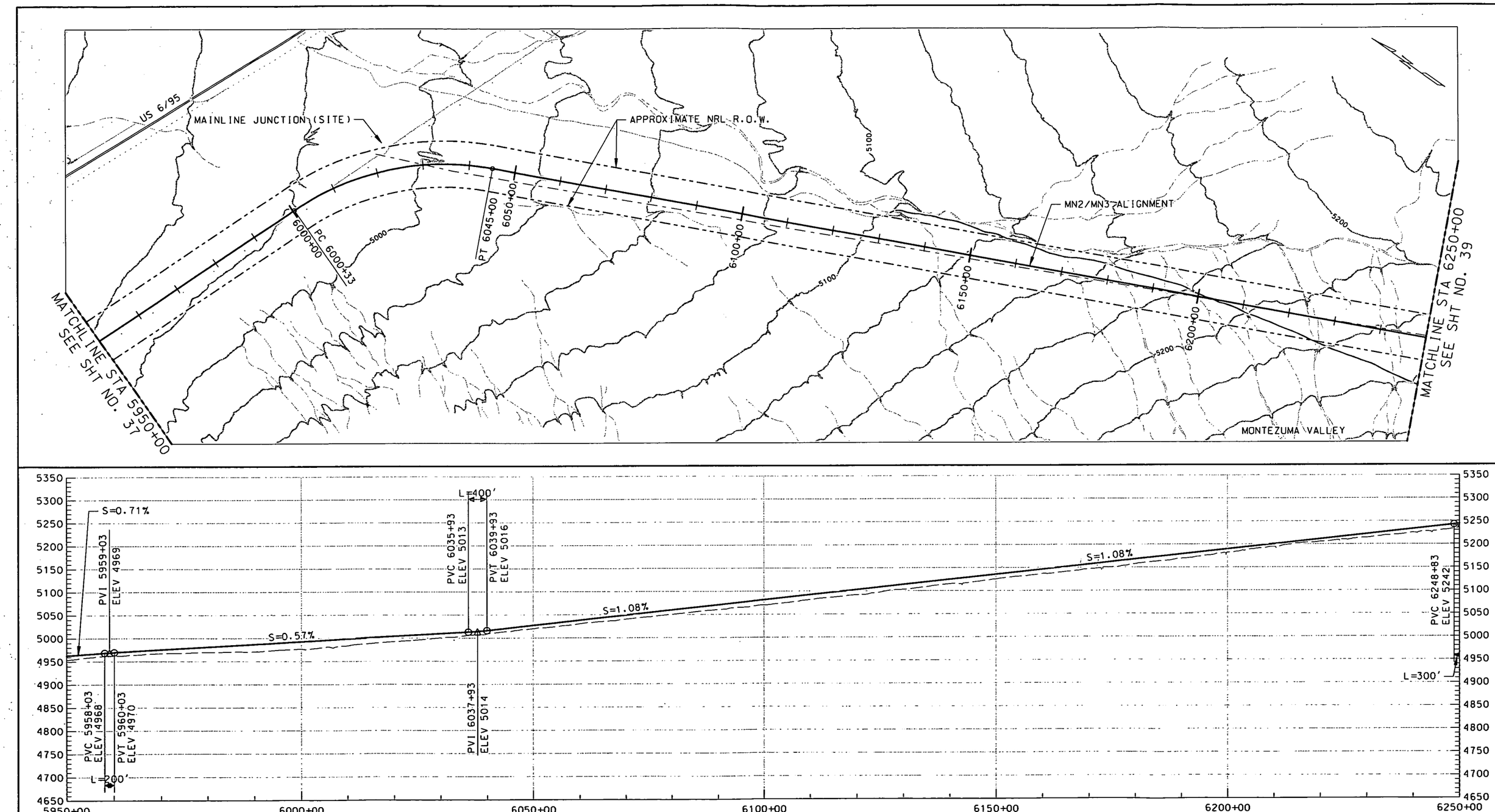

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	DER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
5950+00 TO 6250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M205-PP-0038-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 38 OF 69

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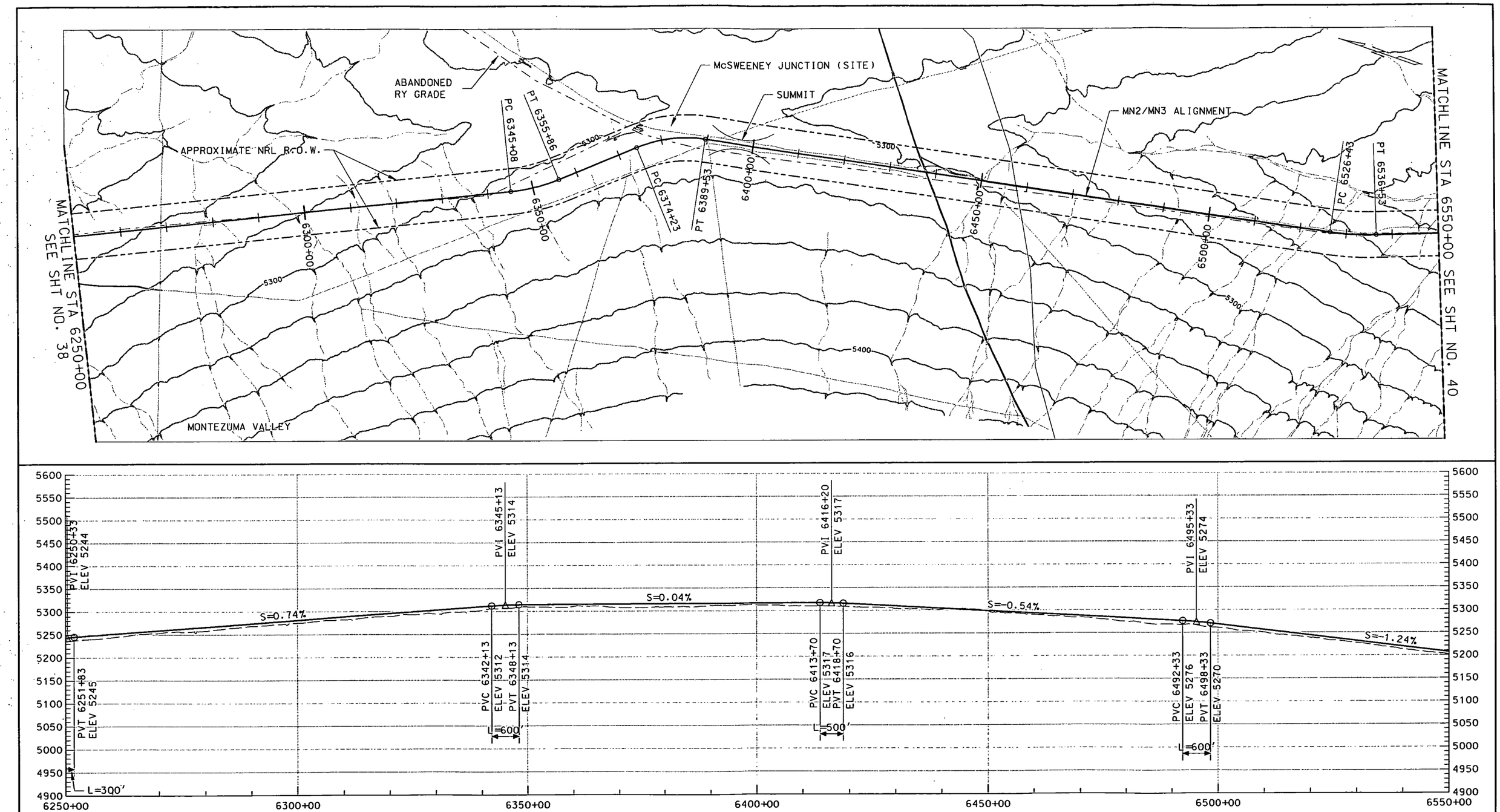

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
6250+00 TO 6550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M206-PP-0039-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 39 OF 69

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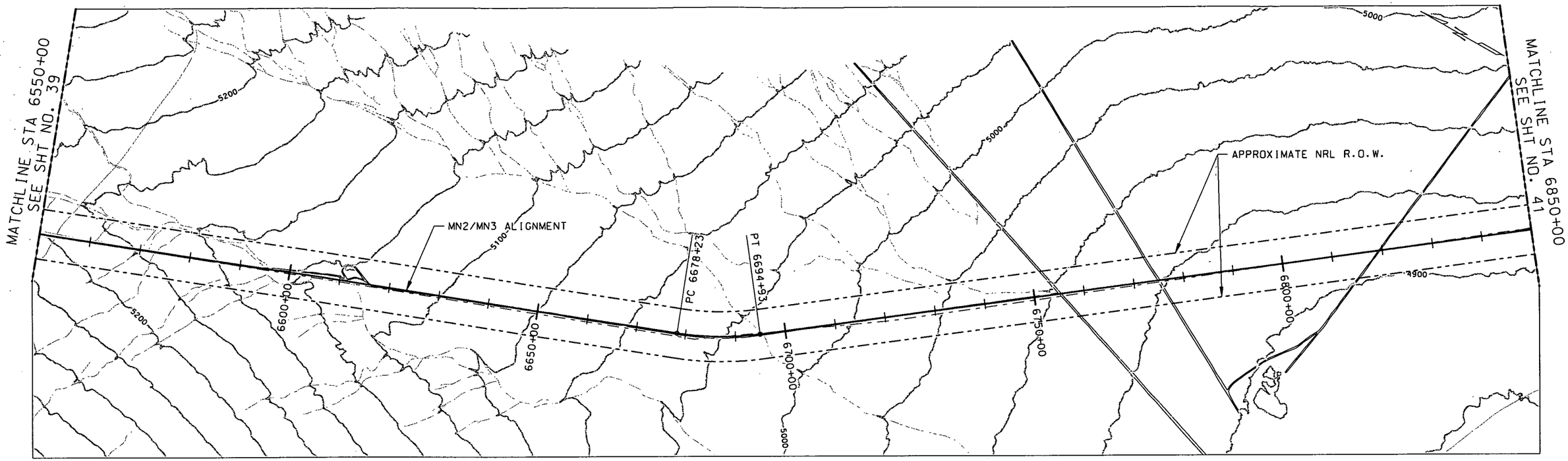

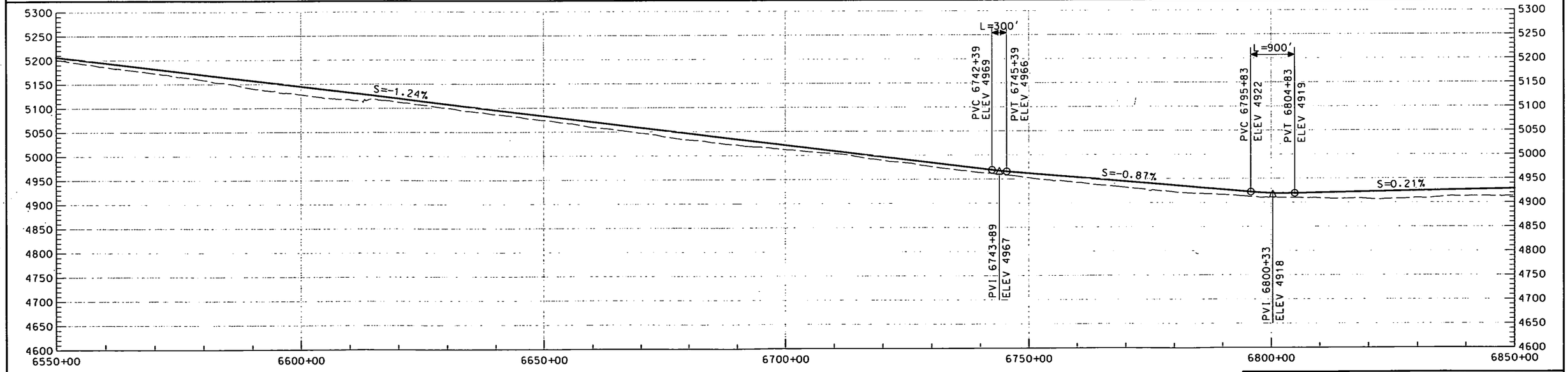

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GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	CLS	VER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIALS/DATE
DRAWN BY: KLB	
ORIGINATOR: YBM	
CHECKER: SNE/LEM	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
6550+00 TO 6850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M207-PP-0040-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 40 OF 69

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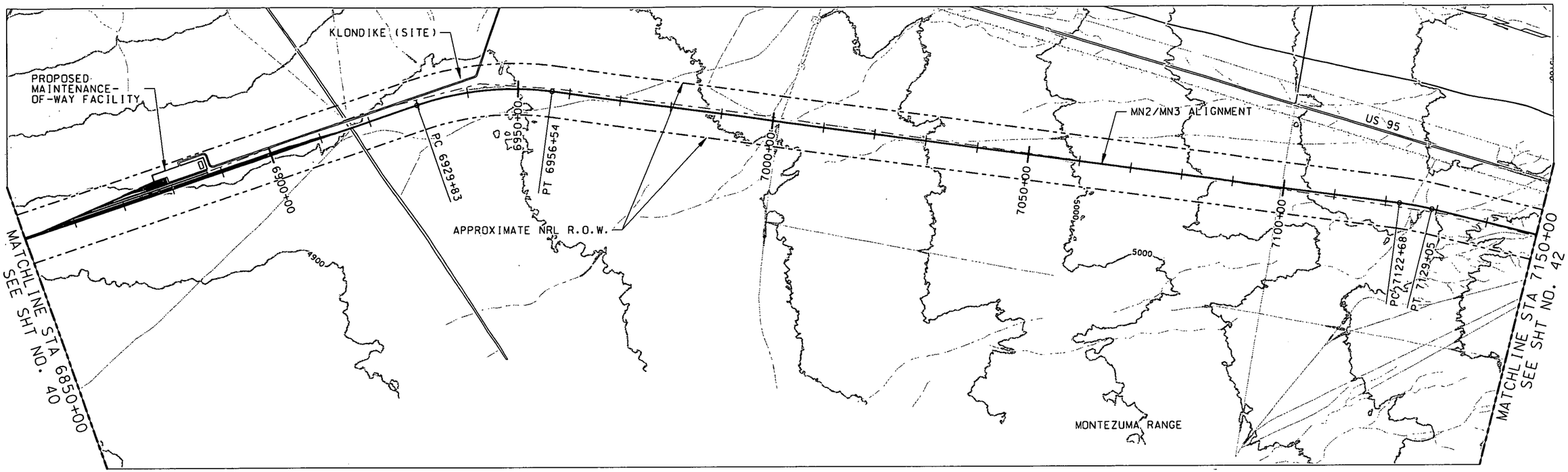

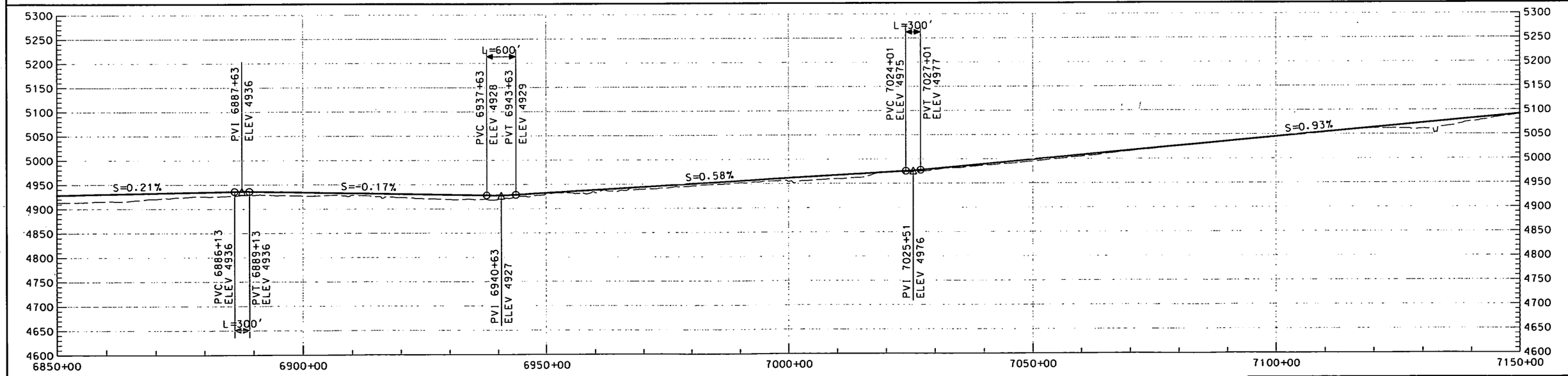

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GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	ORG	CHK	WCR	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNER YBM	
CHECKED SNE/LEM	
VERIFIED JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
6850+00 TO 7150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M208-PP-0041-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 41 OF 69

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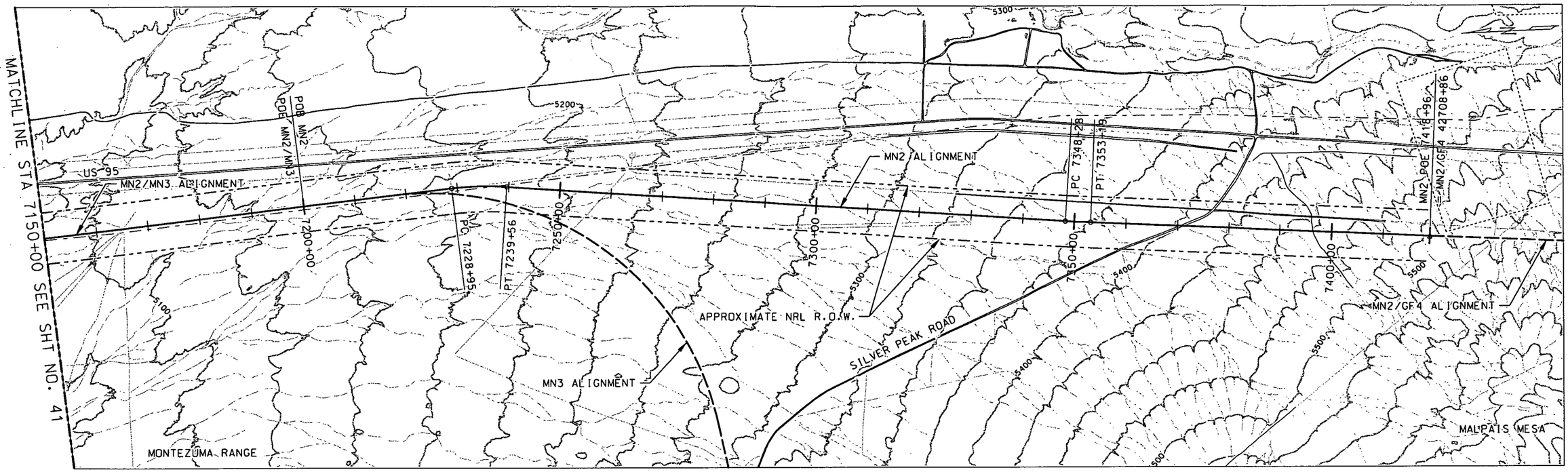

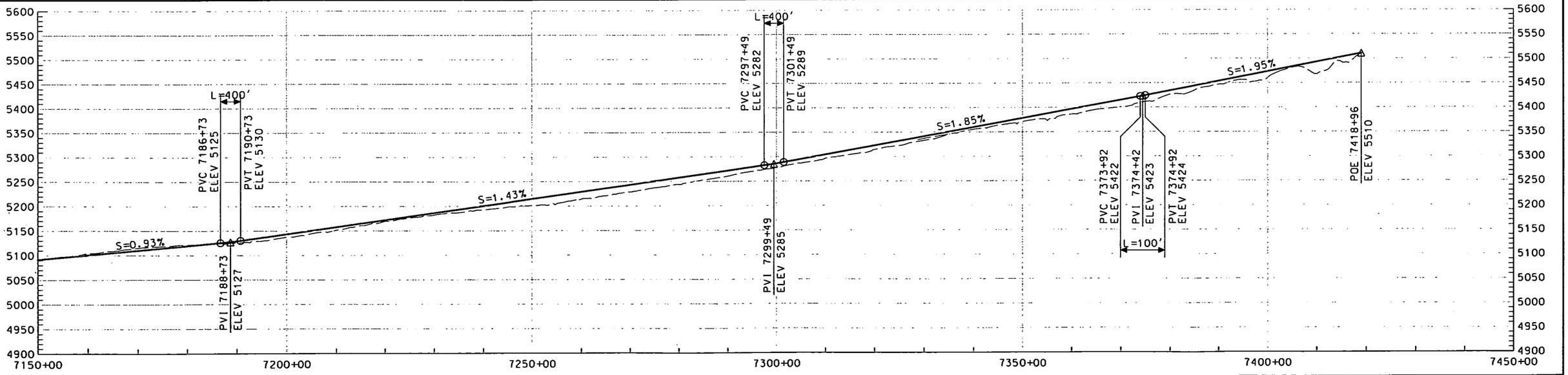

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	HOR	ELE	VER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNER YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN2/MN3
7150+00 TO 7418+96

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 42 OF 69

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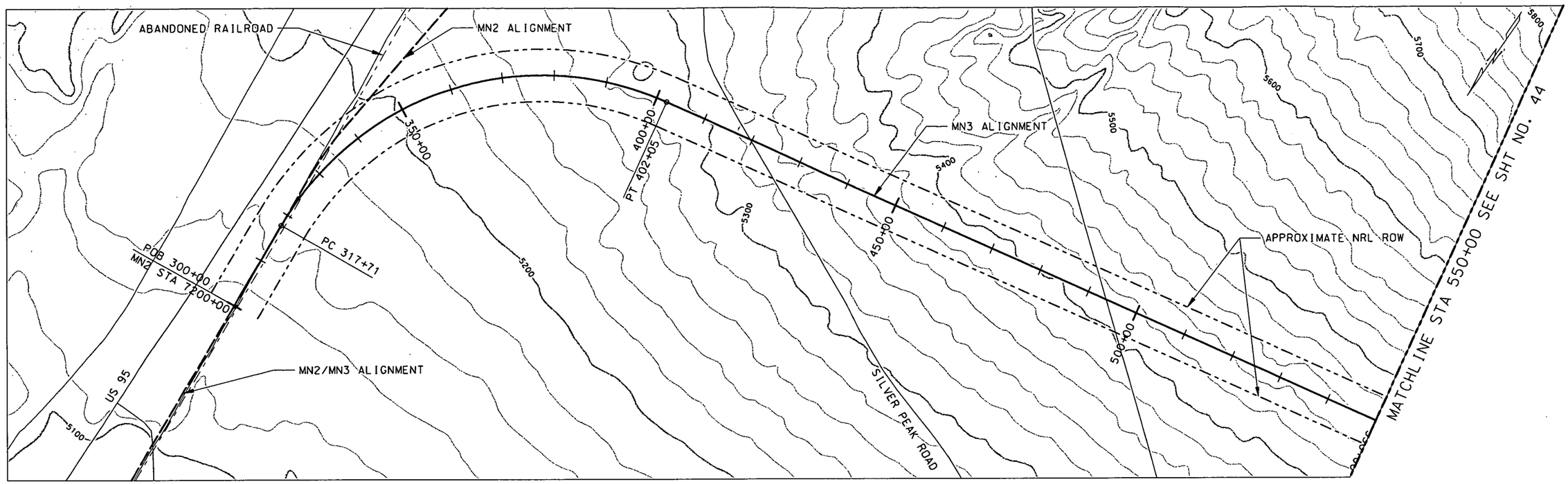

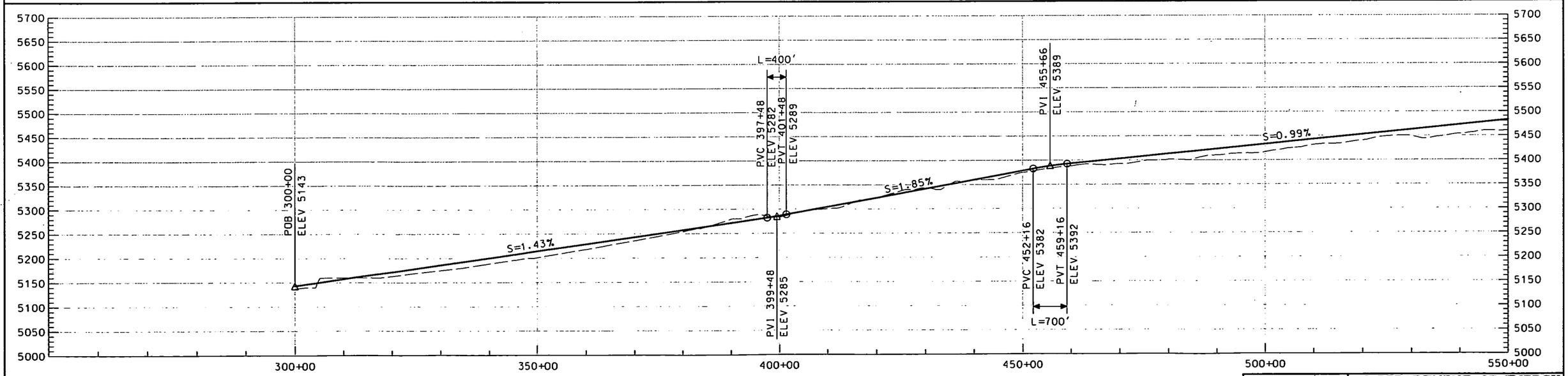

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VCP	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY CJP	
DESIGNED CJP	
CHECKED RCM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN3
300+00 TO 550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-M301-PP-0043-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 43 OF 69

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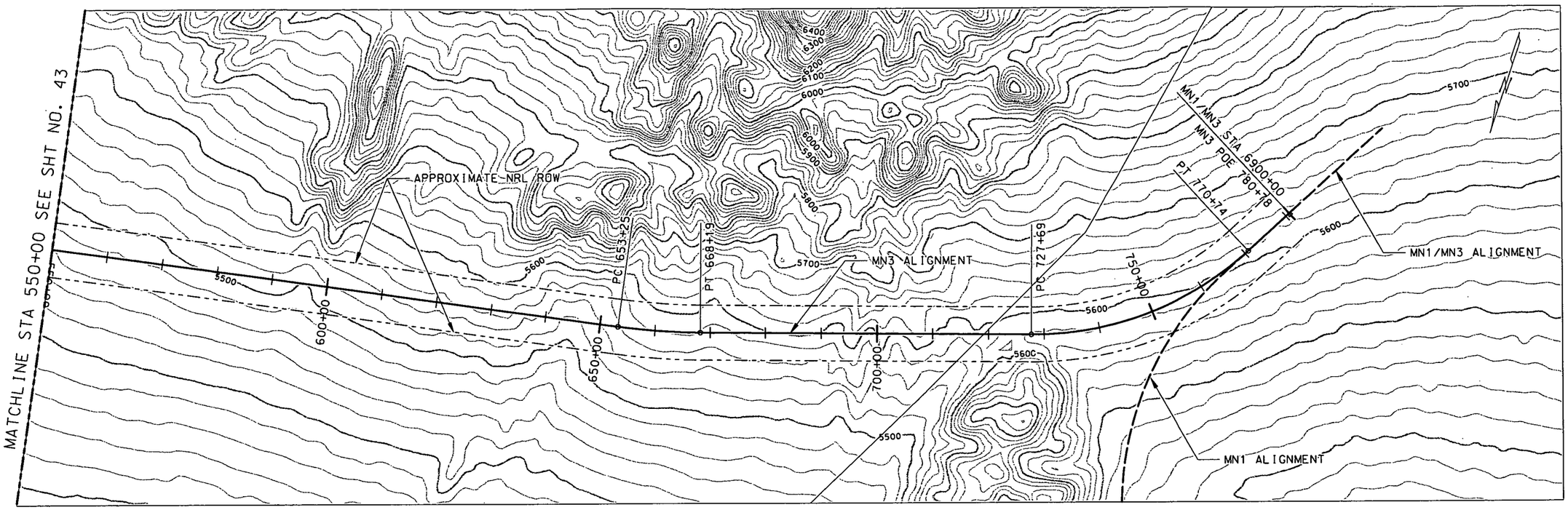

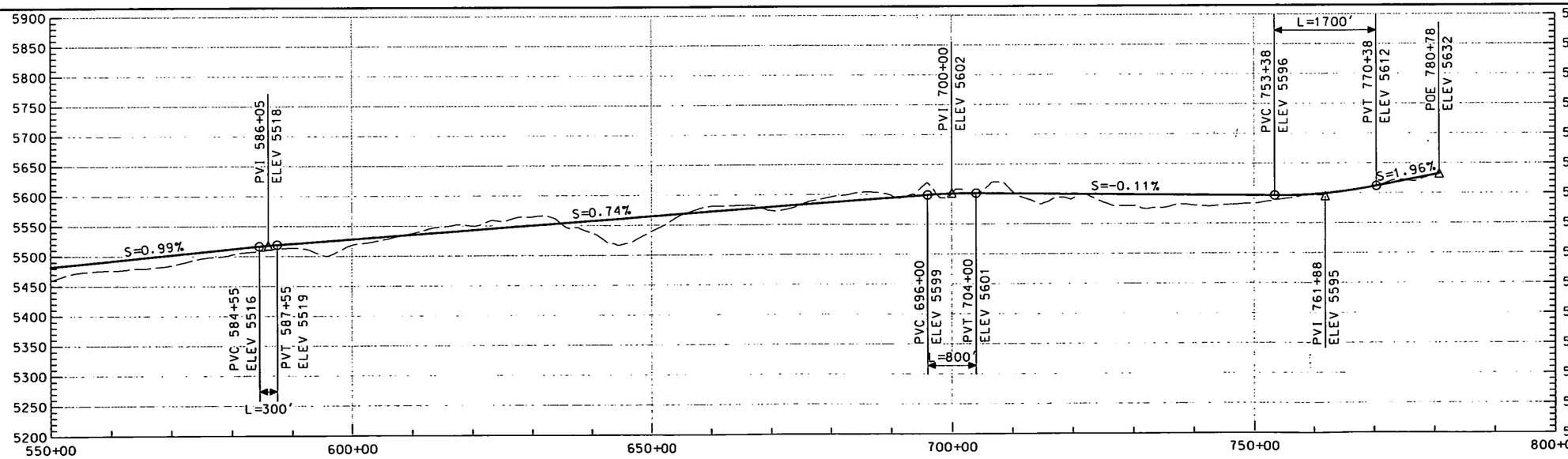

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY CJP	
ORIGINATOR CJP	
CHECKER RCM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

MN3
550+00 TO 780+78

SIZE | SCALE AS SHOWN | DOCUMENT IDENTIFIER NRP-D-M302-PP-0044-00 | REV 00

SAFETY CATEGORY | CAD SOFTWARE MICROSTATION V08.05.02.27 | SHEET 44 OF 69

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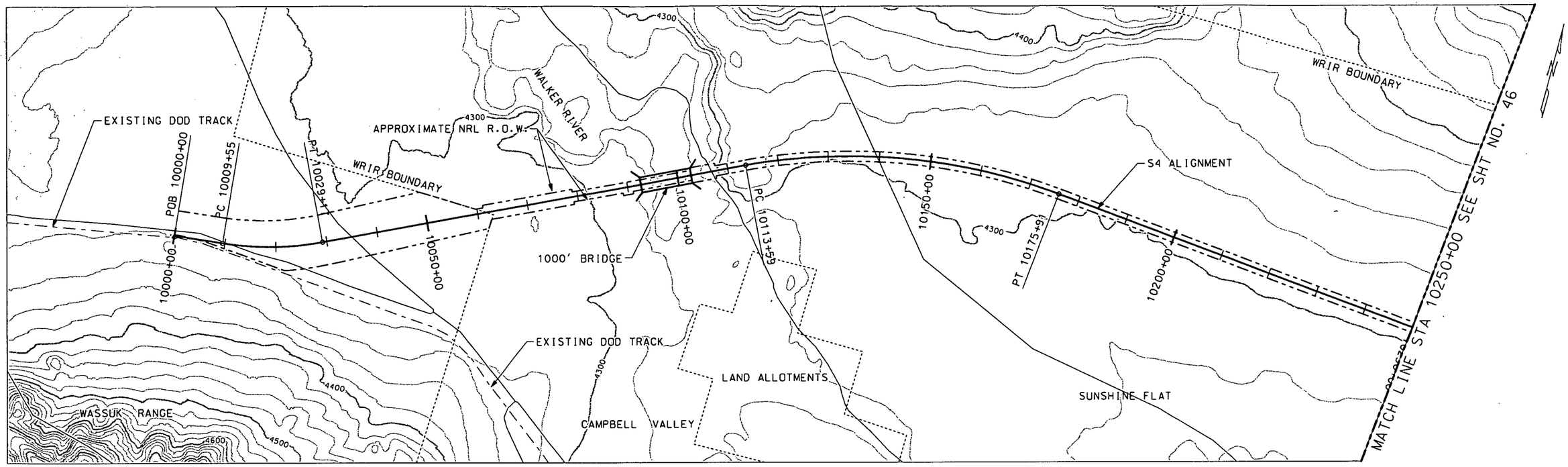
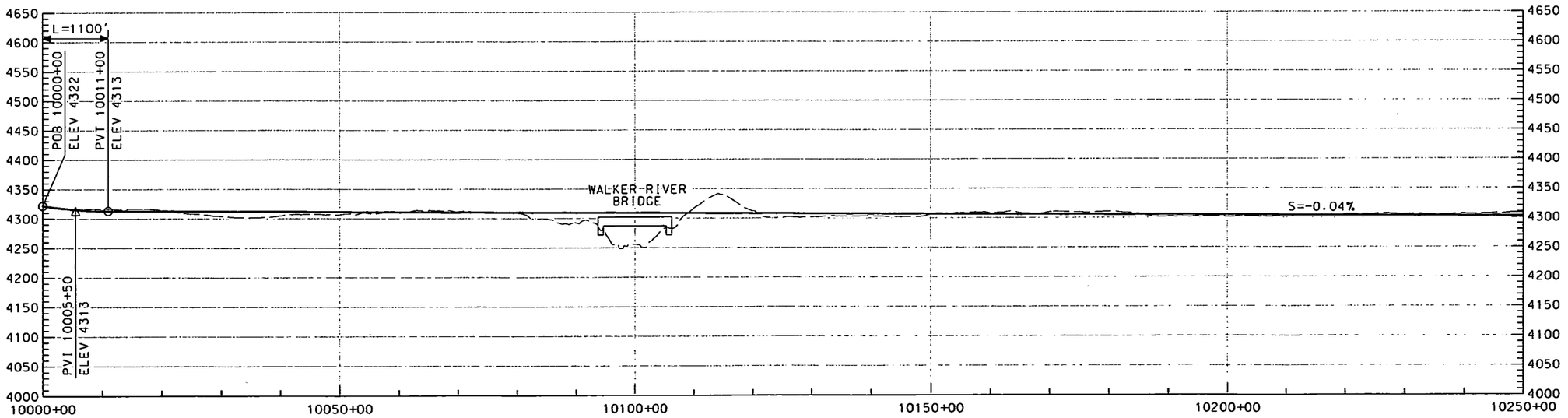




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	CRW	CRG	CHK	VER	CLE	GEN	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

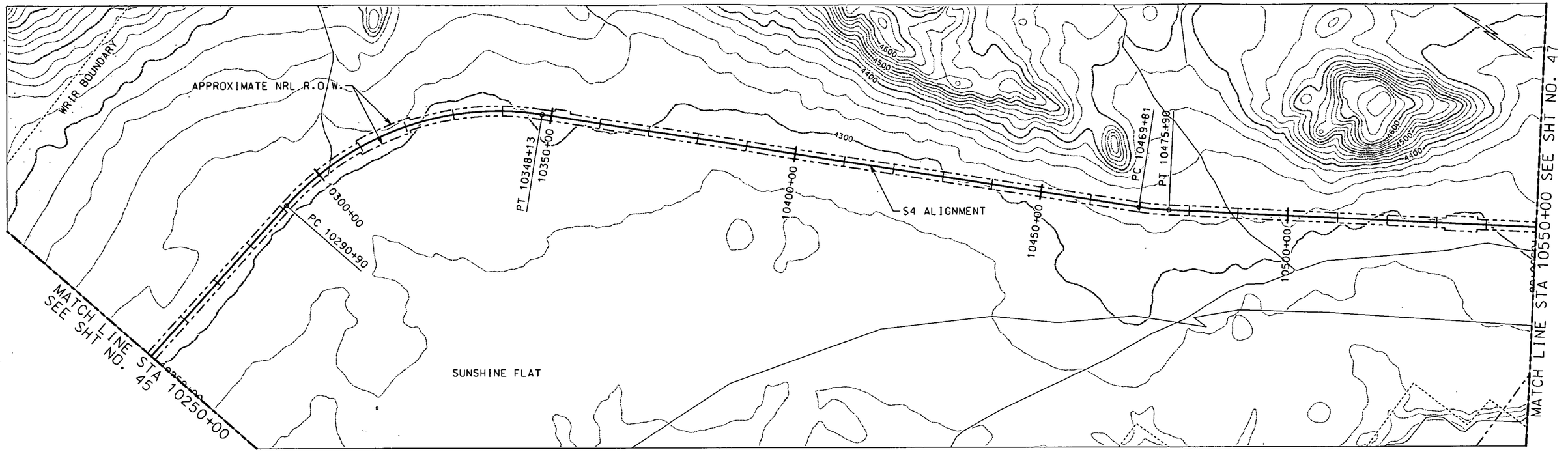
APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

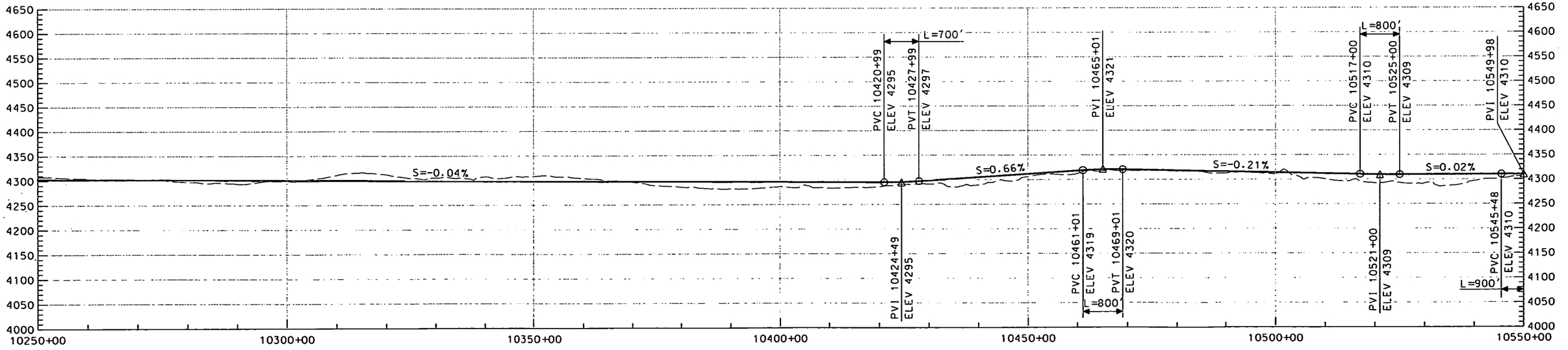
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
10000+00 TO 10250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S401-PP-0045-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 45 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ENG	CHK	MGR	DLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

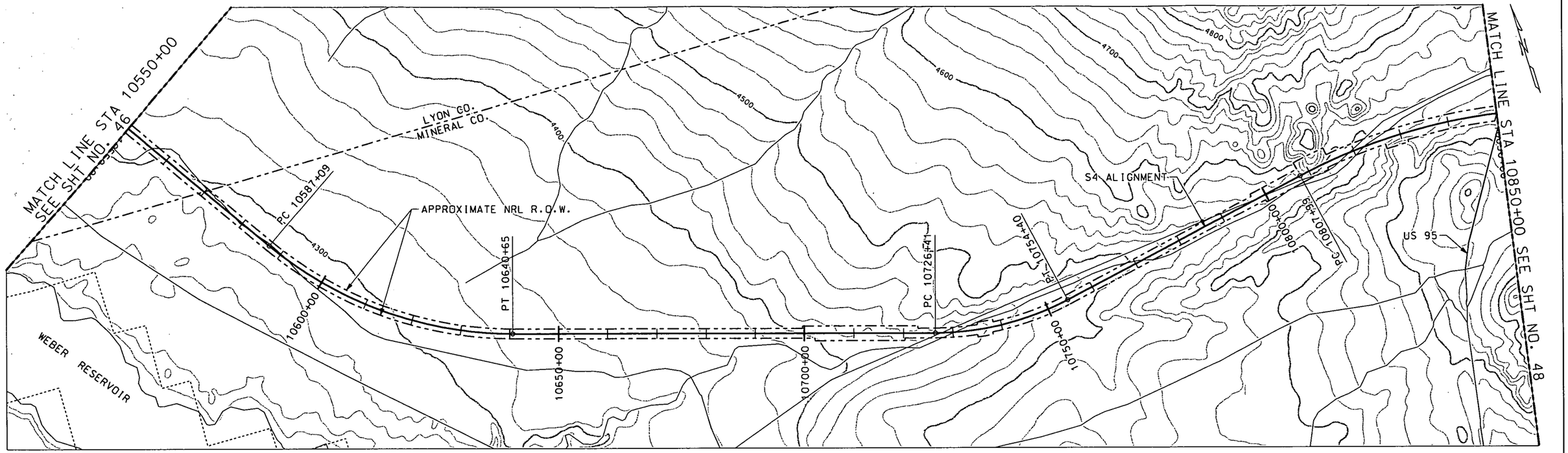
APPROVALS	INITIALS/DATE
DRAWN BY: ENC	
ORIGINATOR: MAL	
CHECKER: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

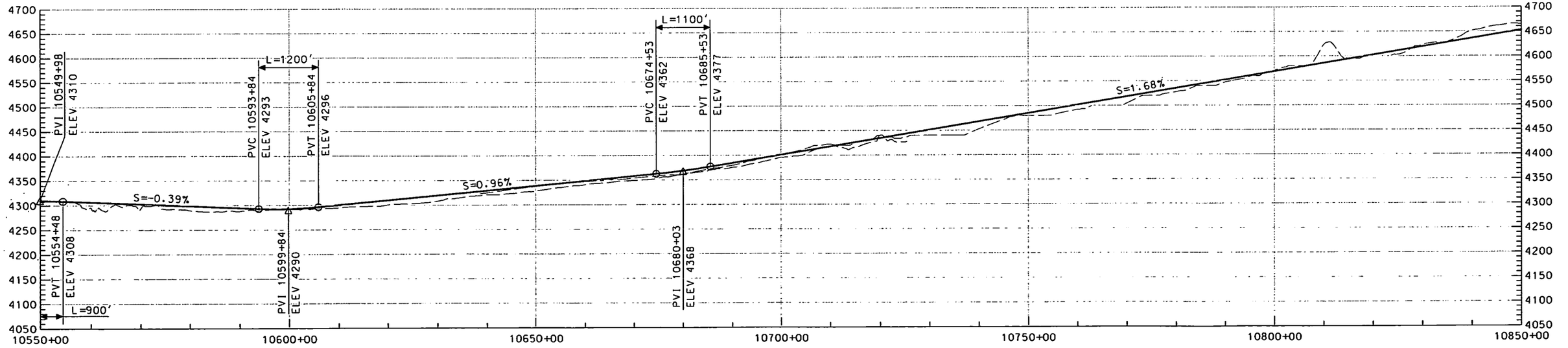
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
10250+00 10550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-0-S402-PP-0046-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 46 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VER	DLE	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

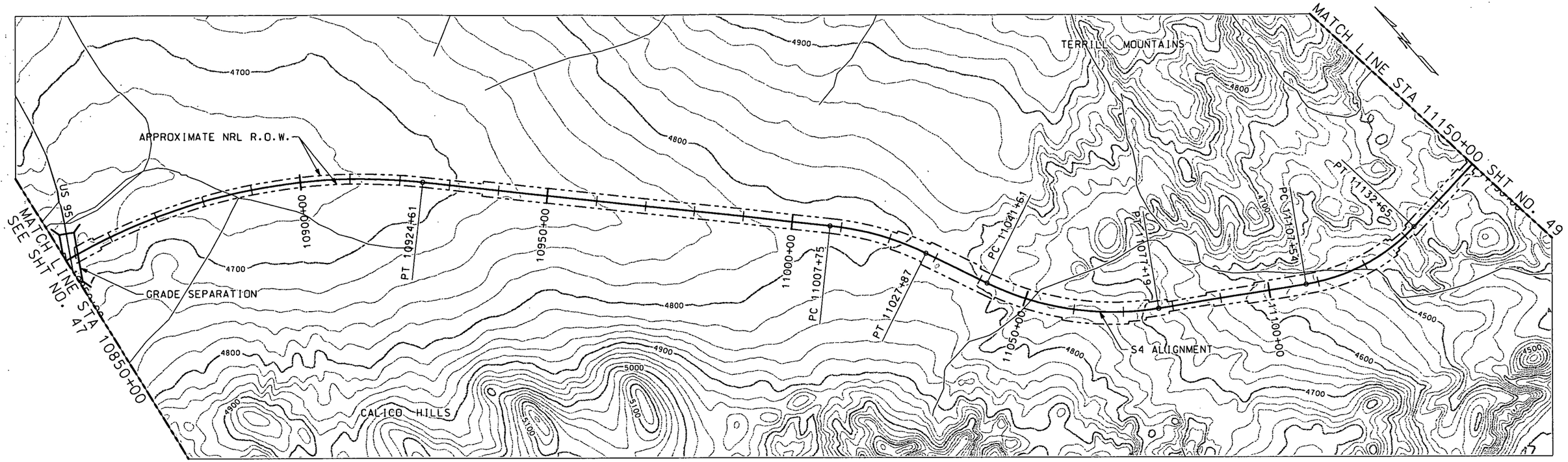
APPROVALS	INITIALS/DATE
DRAWN BY EMC	
DESIGNATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

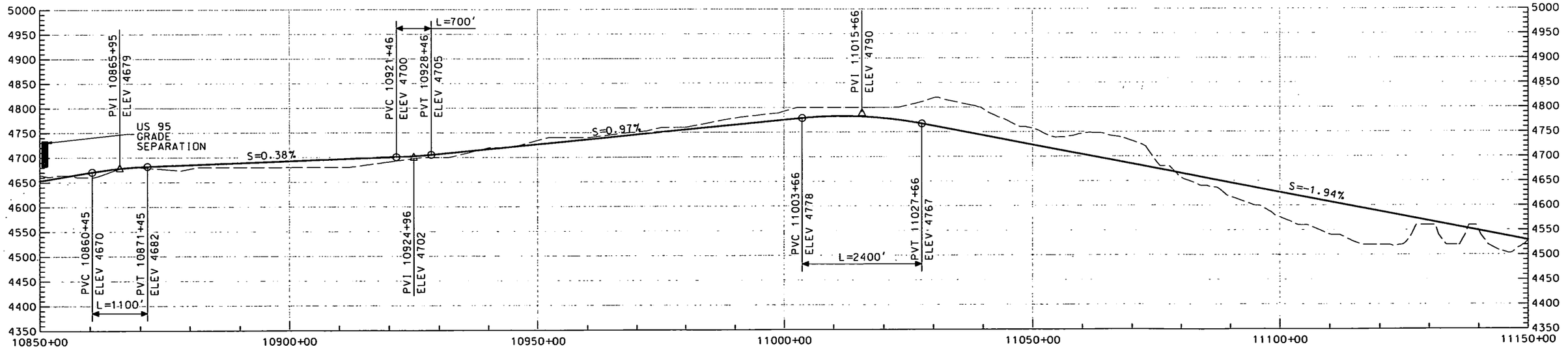
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
10550+00 TO 10850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S403-PP-0047-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 47 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	ORN	ORC	CHK	VCR	CLK	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/INITIAL
DRAWN BY ENC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TNS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
10850+00 TO 11150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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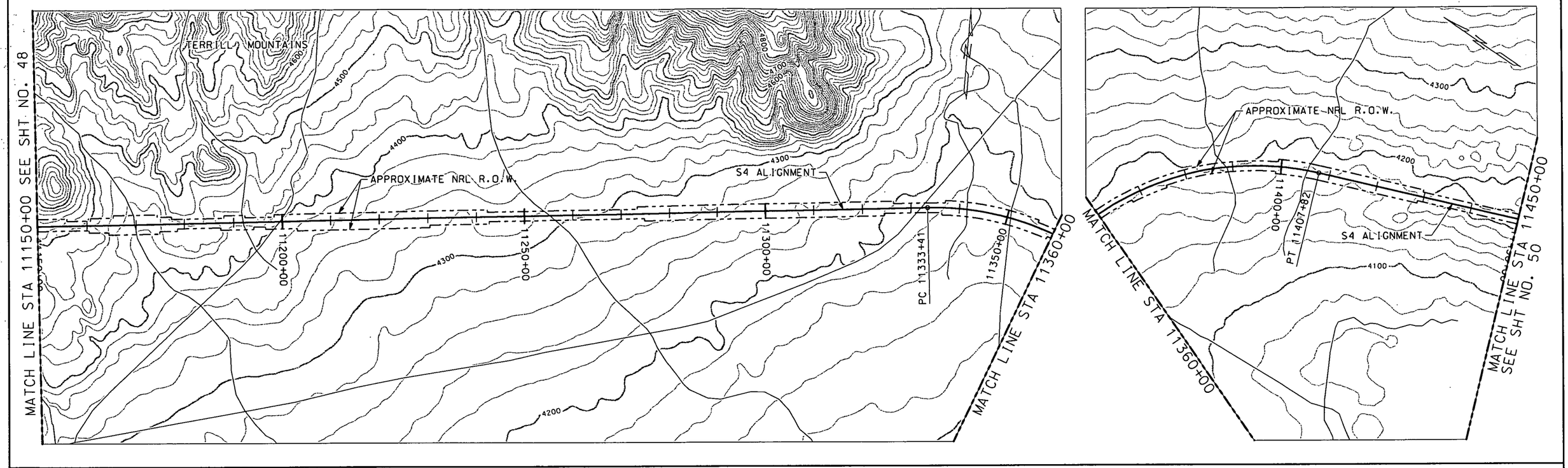
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 48 OF 69



GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: EMC	
DESIGNER: MAL	
CHECKED: SNE	
MODIFIED: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
11150+00 TO 11450+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S405-PP-0049-00	00
SAFETY CATEGORY	CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET: 49 OF 69	

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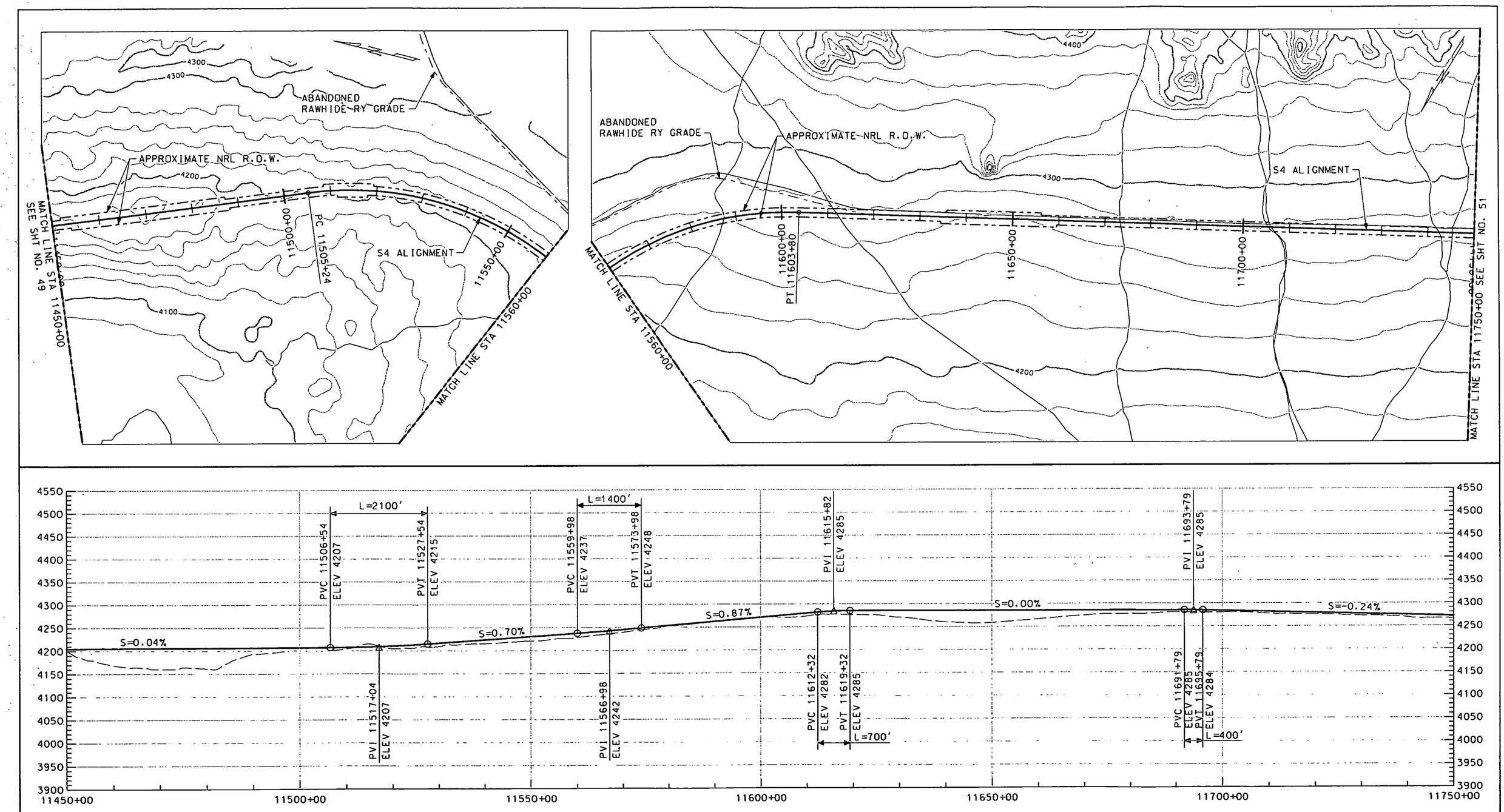

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DLE	GER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
11450+00 TO 11750+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
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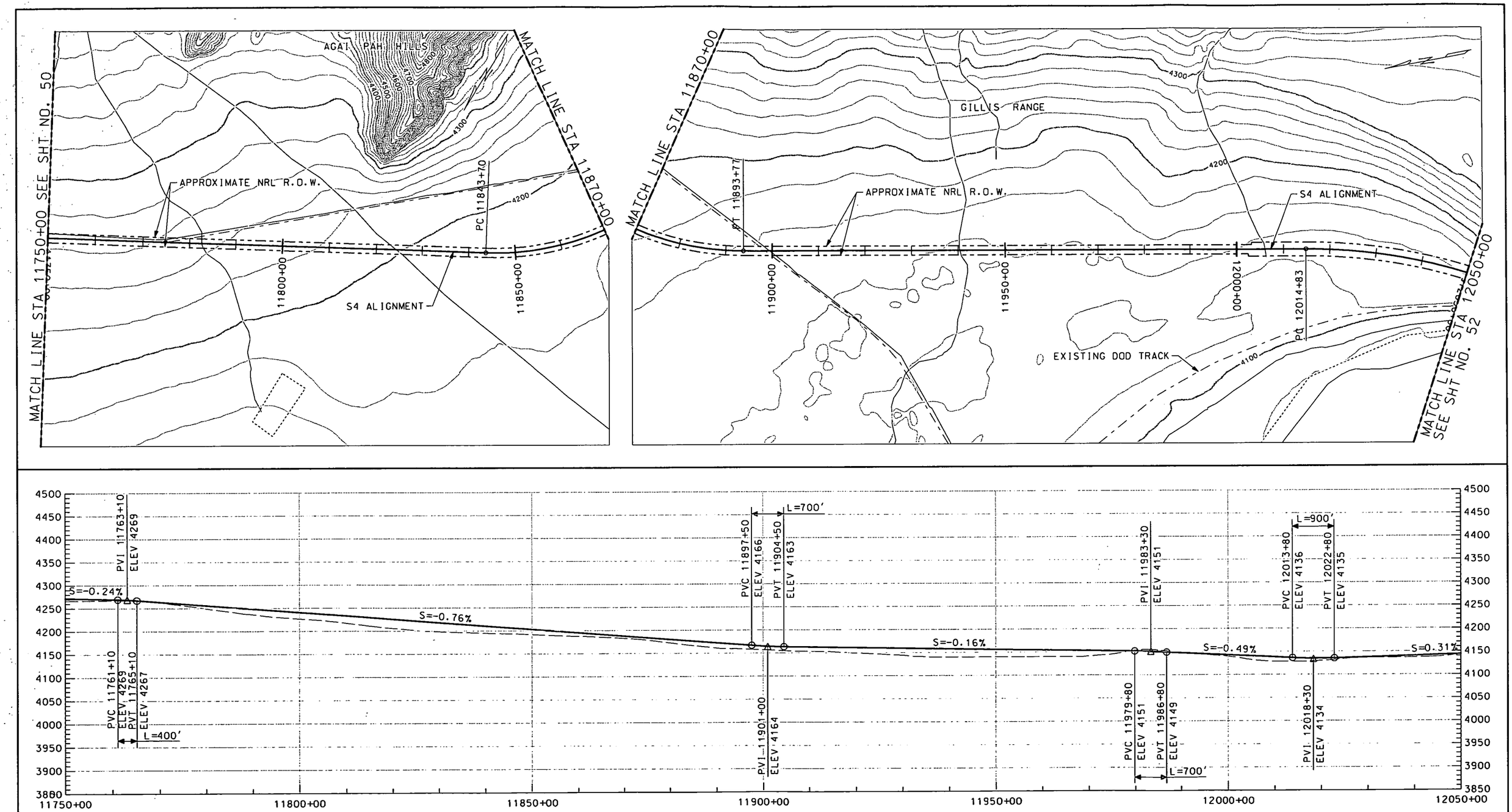
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 50 OF 69



THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	ELE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
11750+00 TO 12050+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S407-PP-0051-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 51 OF 69

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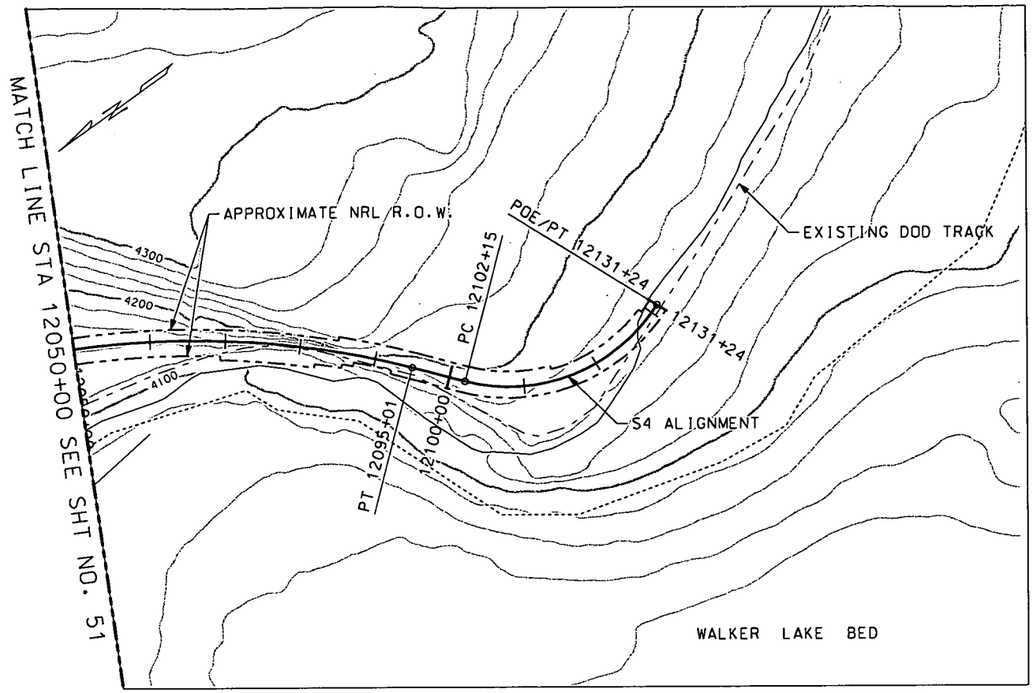

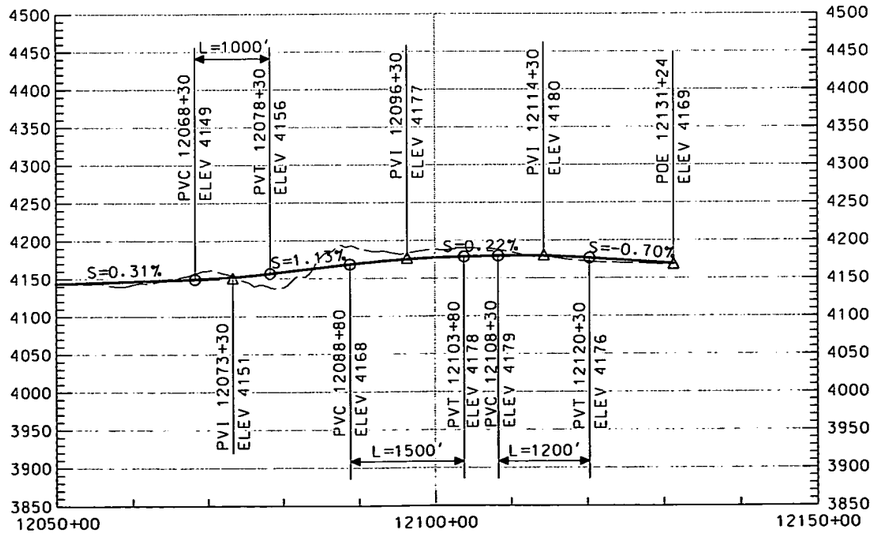

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	DES	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY EMC	
ORIGINATOR MAL	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S4
12050+00 TO 12131+24

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S408-PP-0052-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 52 OF 69

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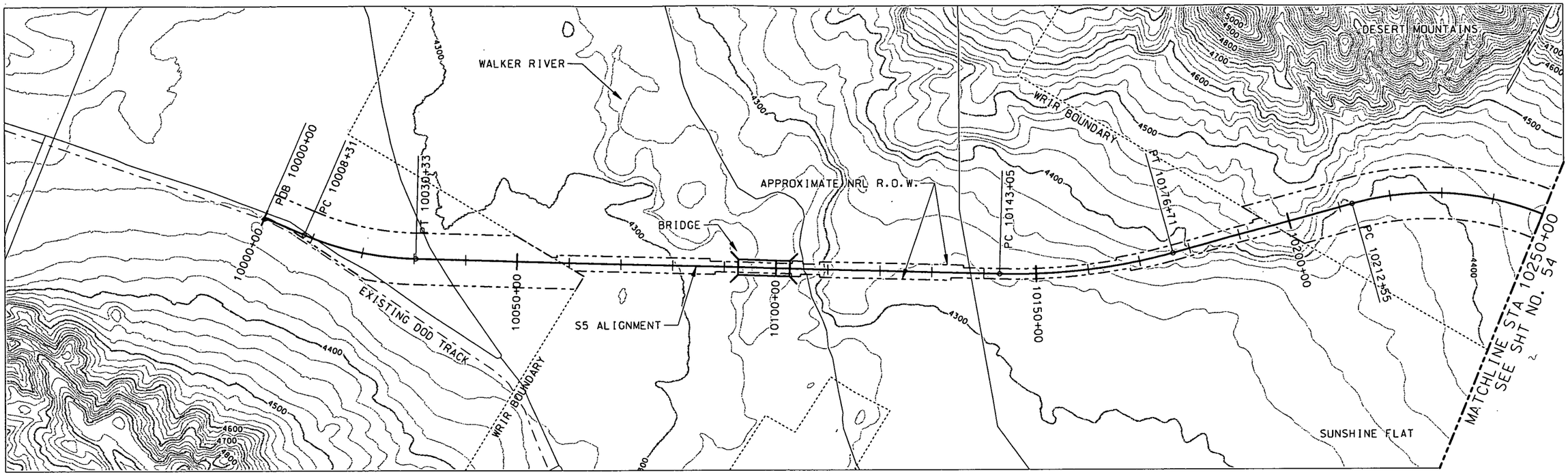
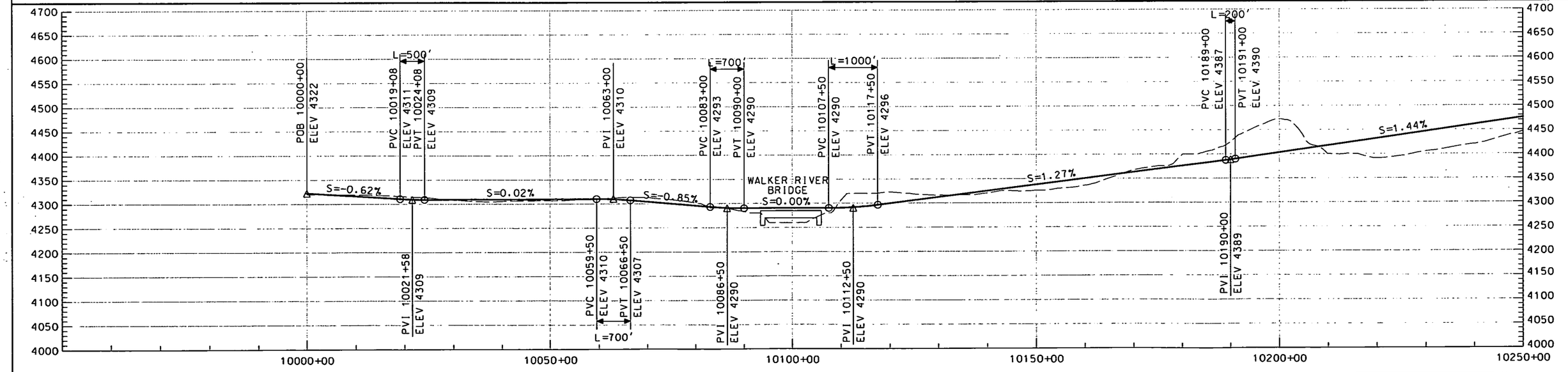




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	ORIG	CHK	VER	DES	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07					

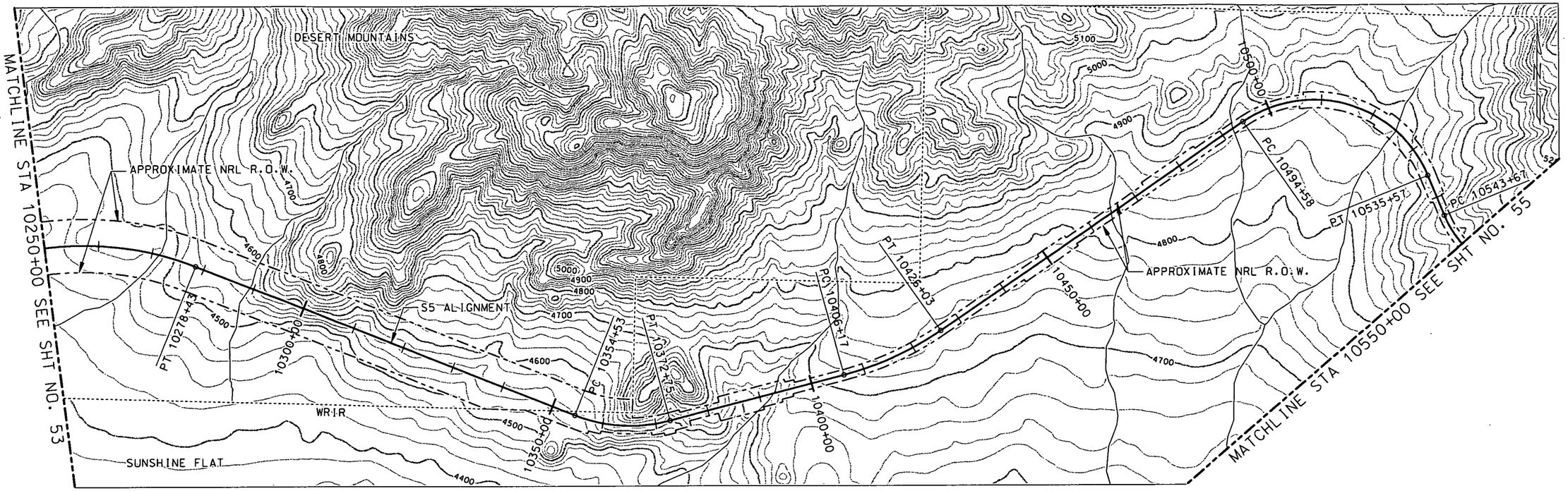
APPROVALS	DATE/INITIALS
DRAWN BY KLB	
DESIGNER YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

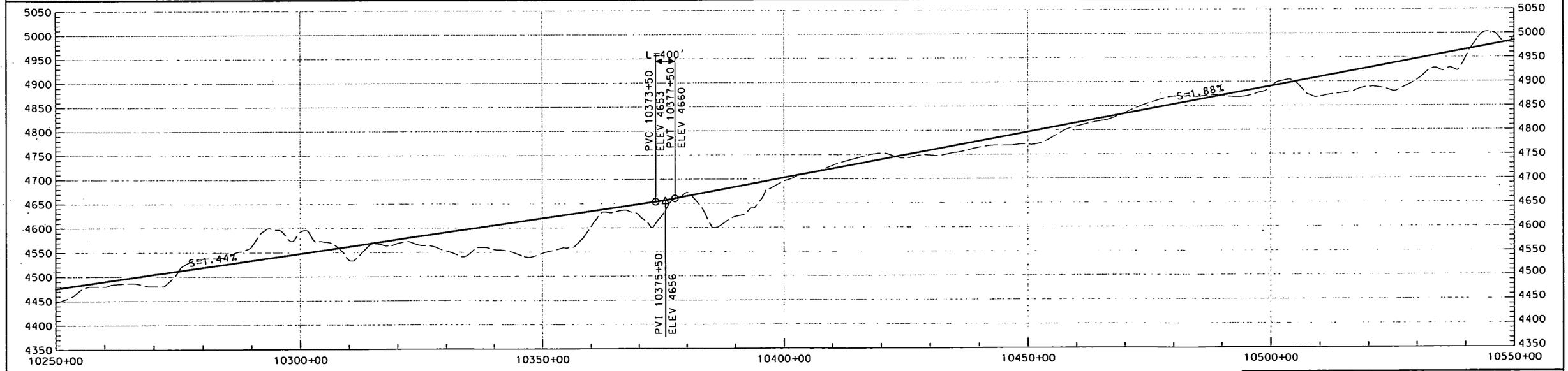
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
10000+00 TO 10250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-0-S501-PP-0053-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 53 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

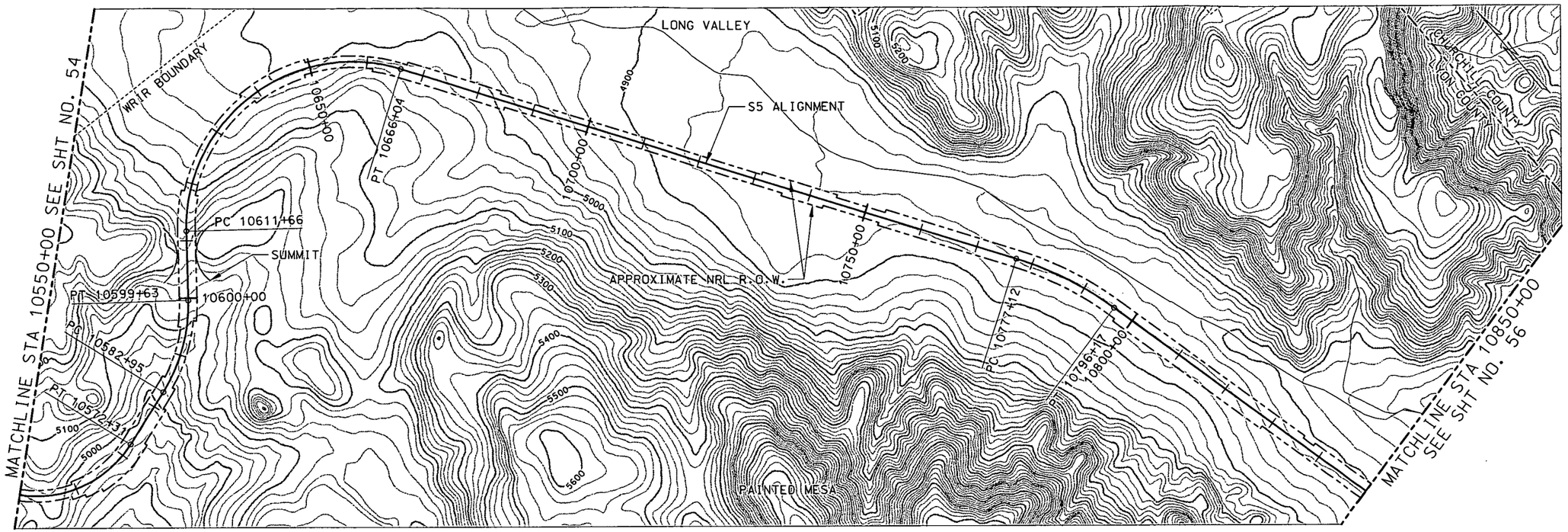
APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

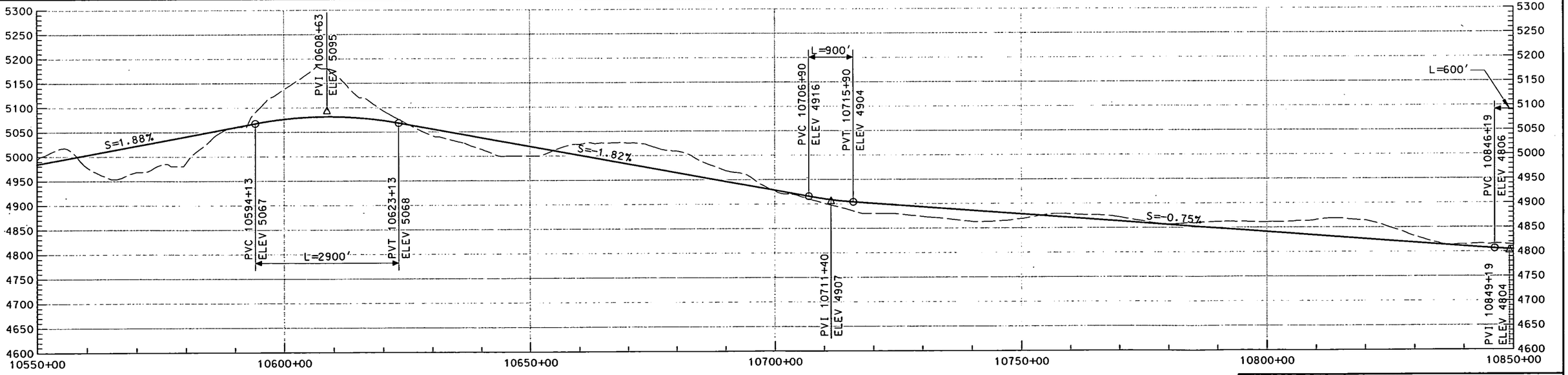
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
10250+00 TO 10550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S502-PP-0054-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 54 OF 69





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DRC	CHK	HCP	DLE	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNED YBM	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TNS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
10550+00 TO 10850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S503-PP-0055-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 55 OF 69

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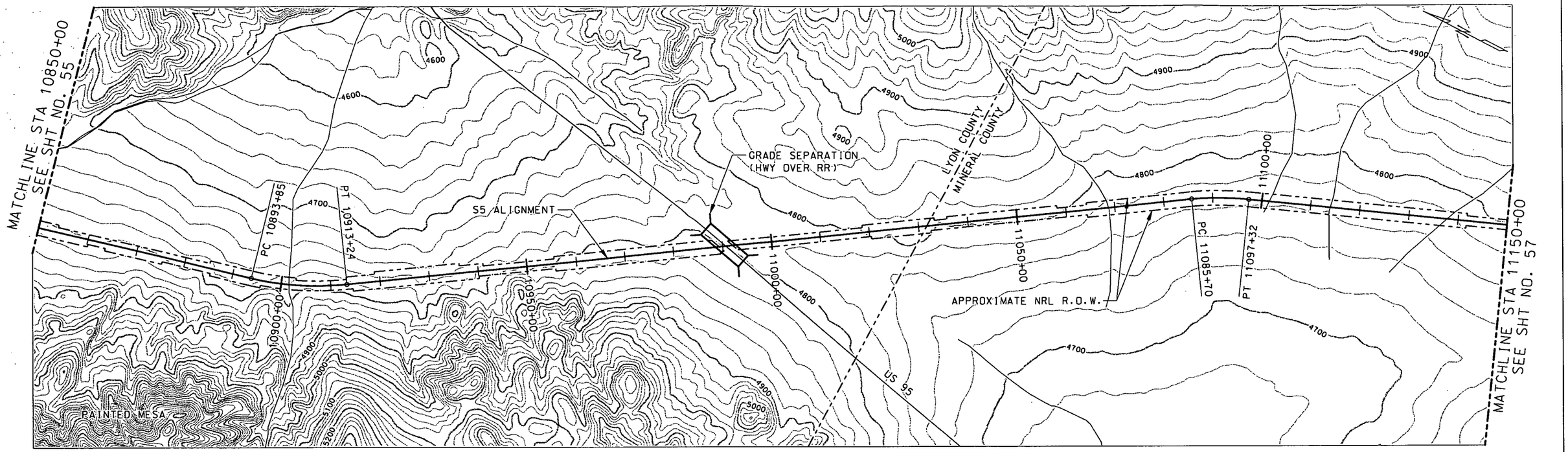
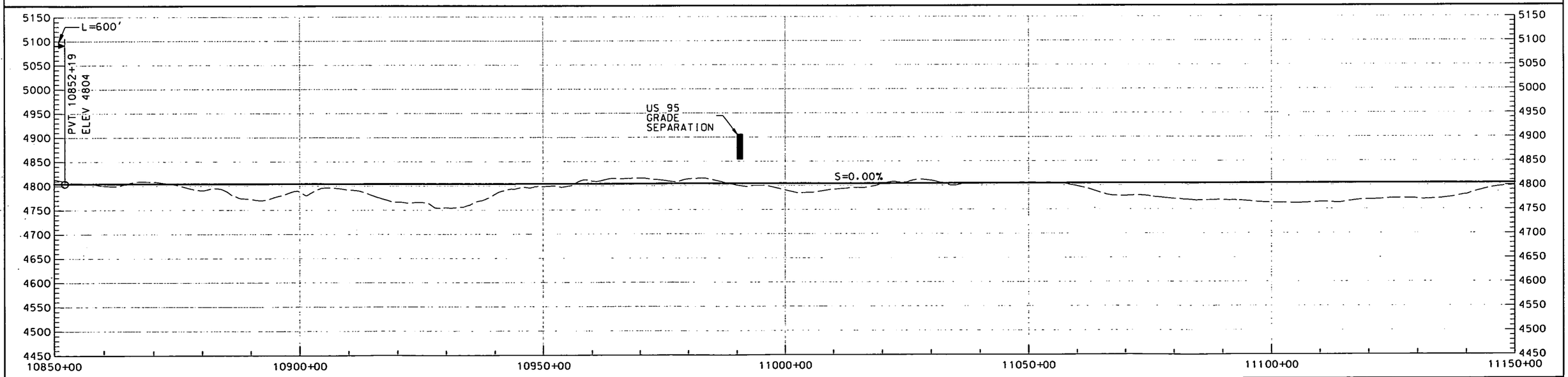




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ORG	CHK	MCP	DLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

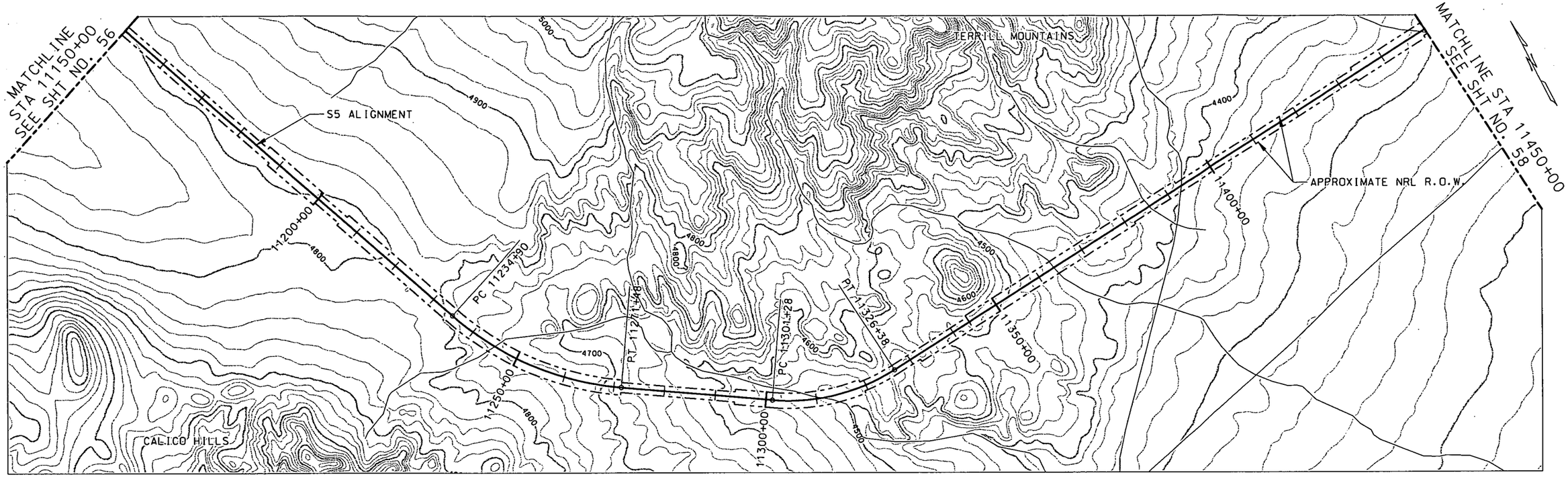
APPROVALS	INITIAL/DATE
DRAWN BY KLB	
DESIGNATOR YBM	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
10850+00 TO 11150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S504-PP-0056-00	00
SAFETY CATEGORY	CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 56 OF 69	



THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	MGR	CLE	GER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
11150+00 TO 11450+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S505-PP-0057-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 57 OF 69

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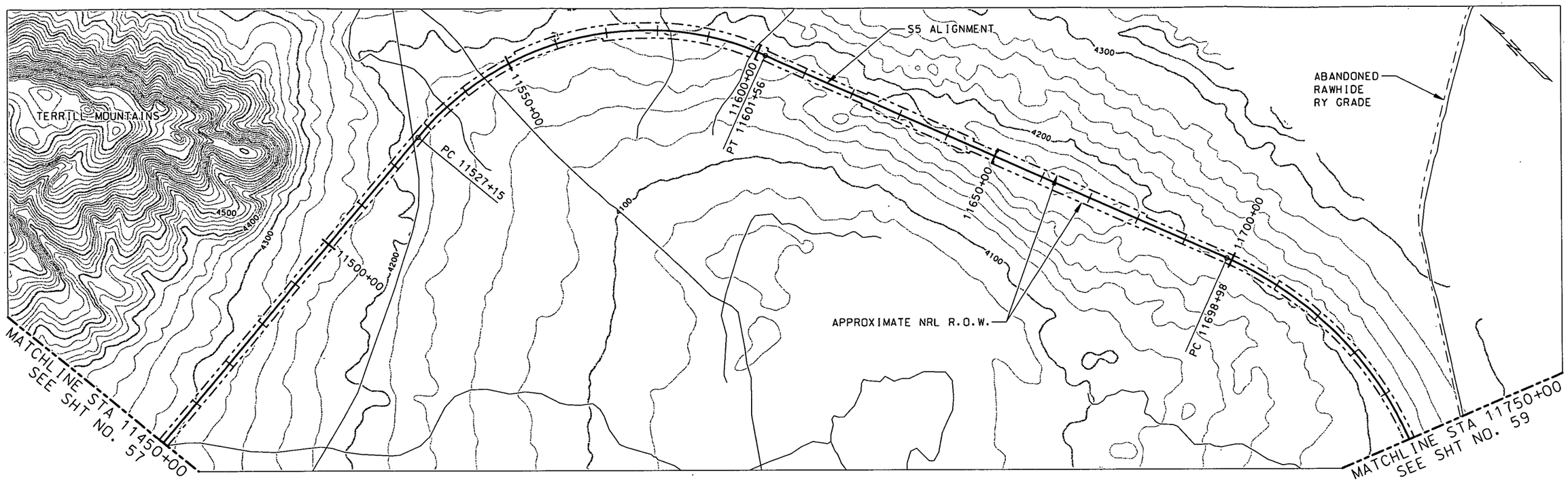

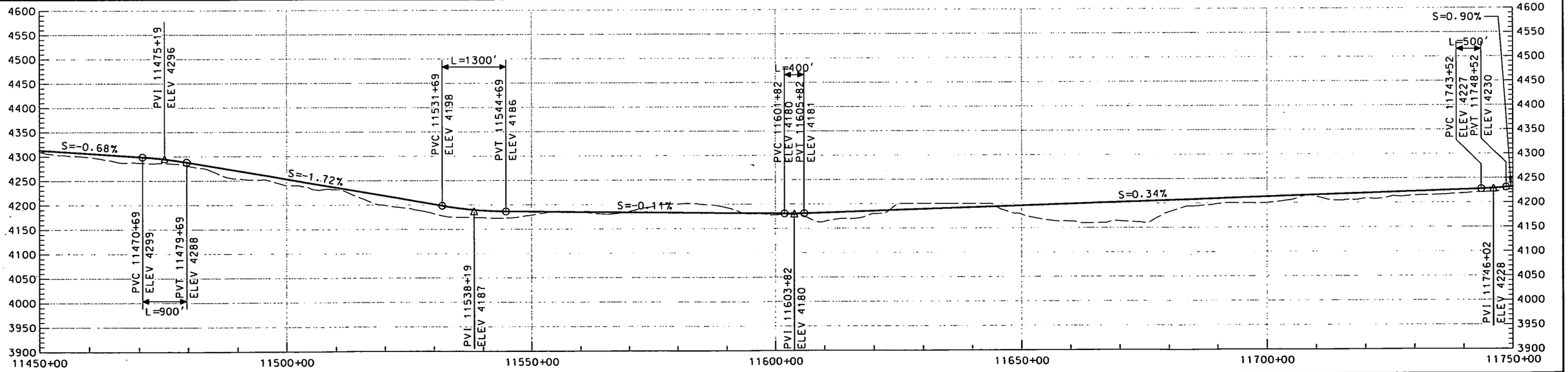

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DSC	CHK	WCP	CLK	QCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/INITIALS
DRAWN BY KLB	
DESIGNATION YBN	
CHECKED SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
11450+00 TO 11750+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S506-PP-0058-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 58 OF 69

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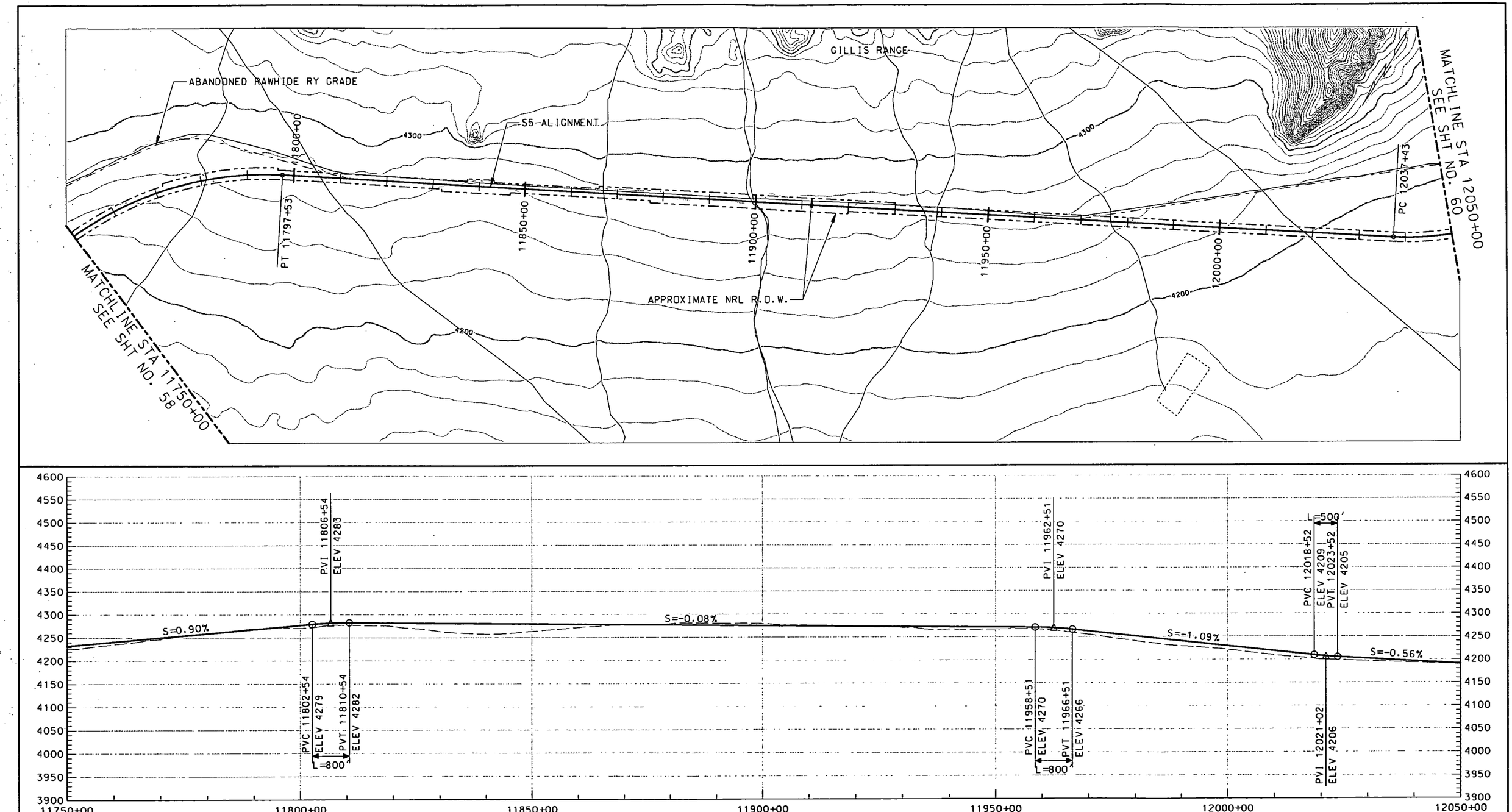

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VER	CLE	DER	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKER SNE/LEM	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
11750+00 TO 12050+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S507-PP-0059-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 59 OF 69

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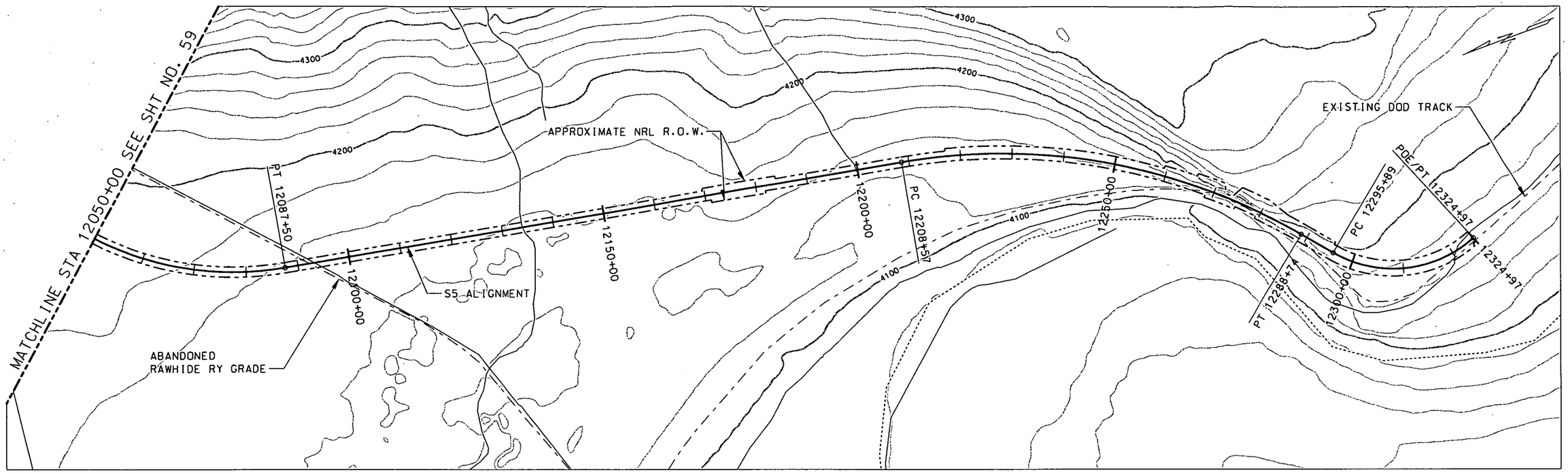

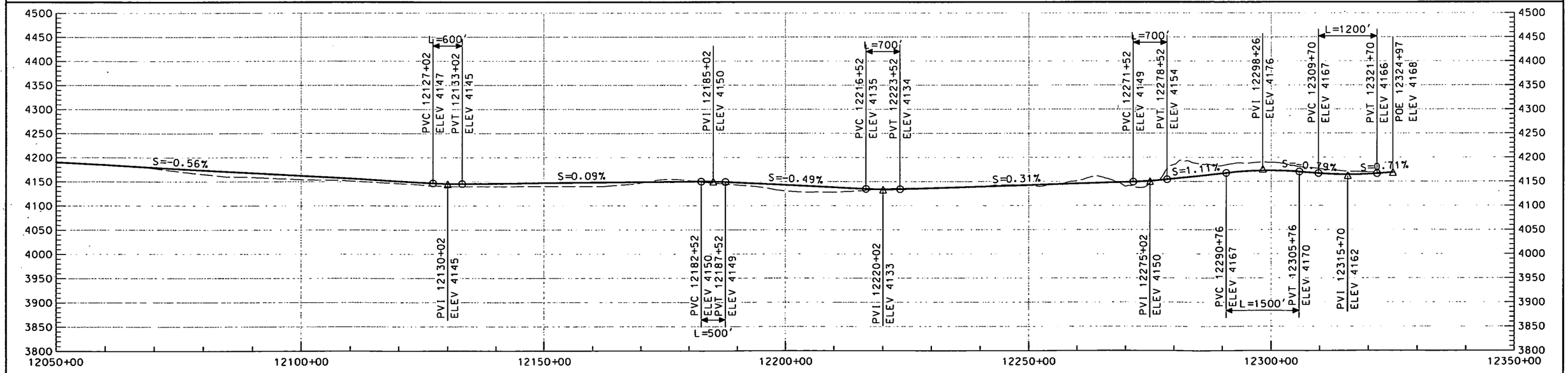

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DSG	CHK	VCR	CLK	VCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	DATE/INITIALS
DRAWN BY KLB	
ORIGINATOR YBM	
CHECKED SNE/LEM	
MODIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TNS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S5
12050+00 TO 12324+97

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S508-PP-0060-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 60 OF 69

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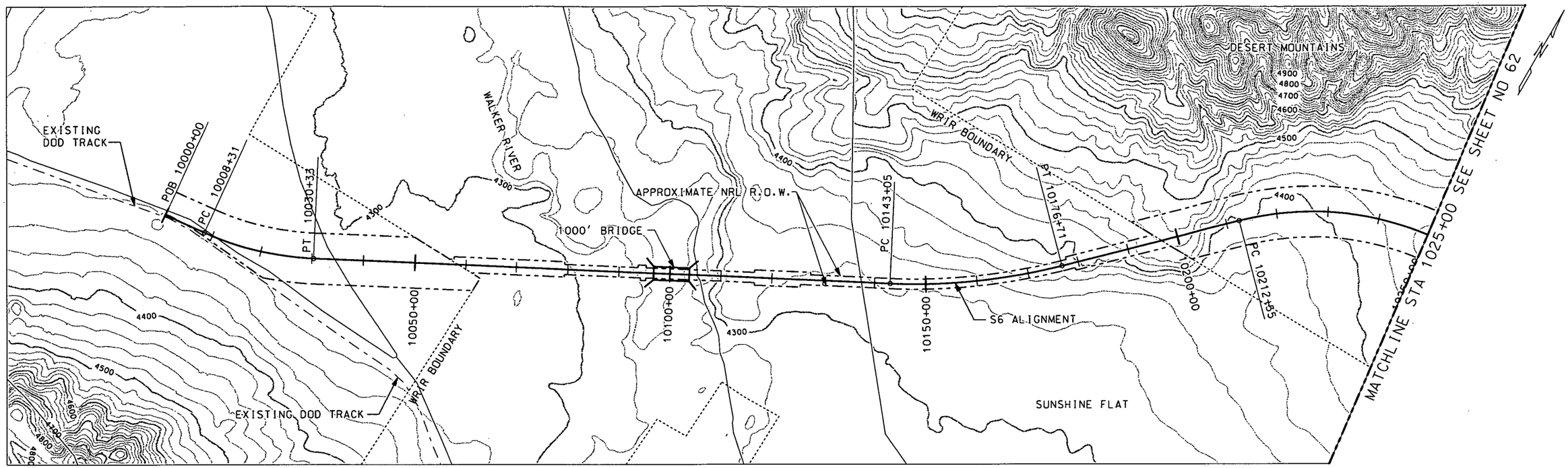
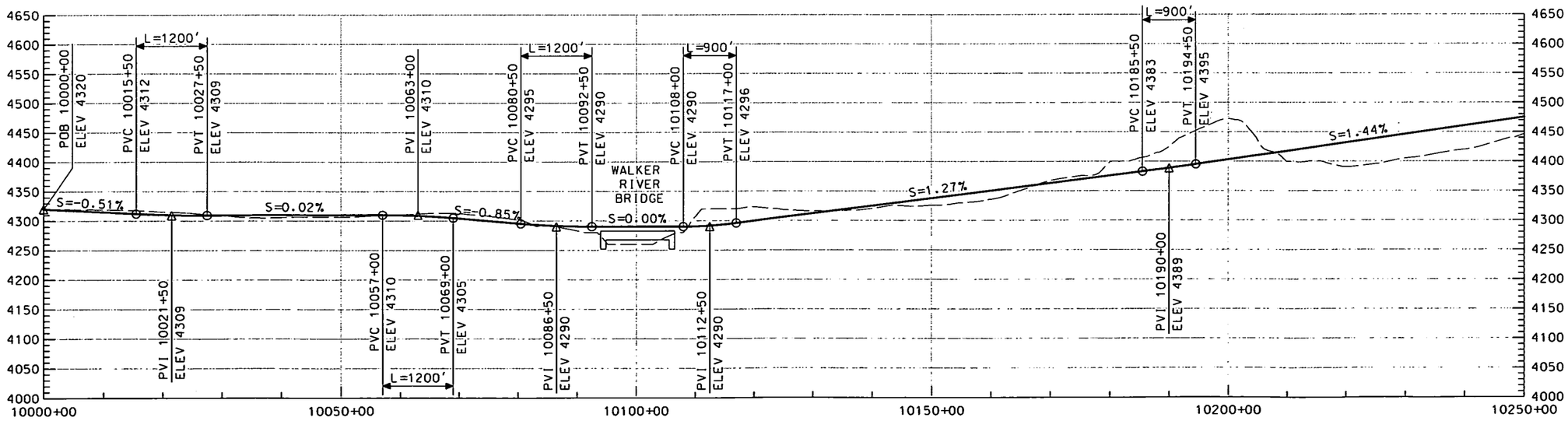




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CHK	CHK	VCR	CLE	QCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

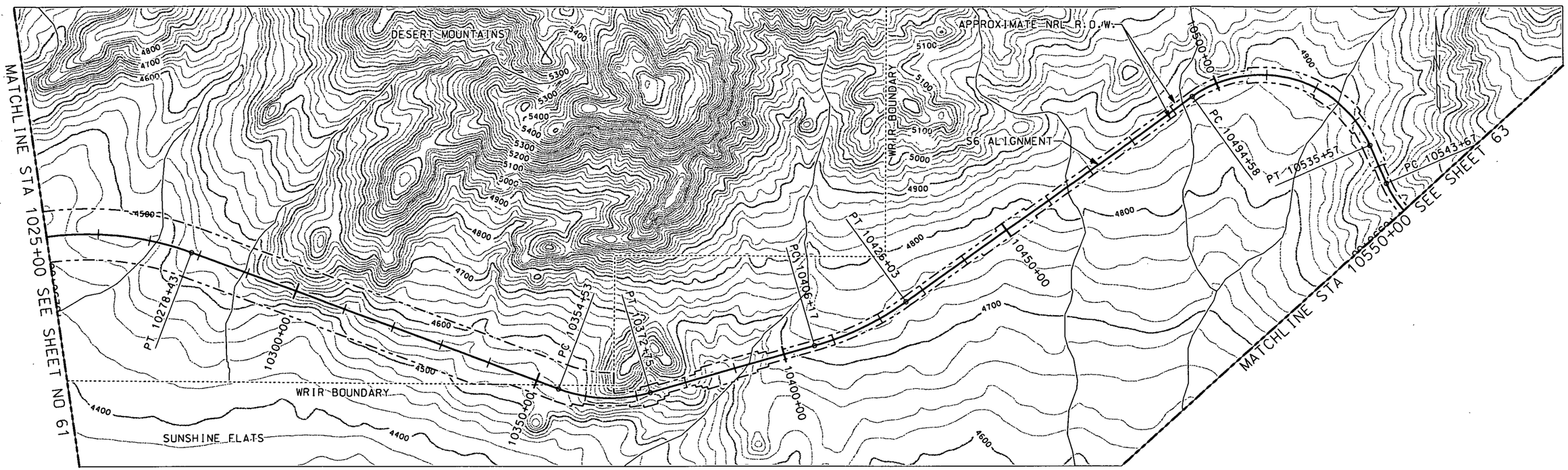
APPROVALS	INITIAL/DATE
DRAWN BY PTO	
SPECIFICATION PTO	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

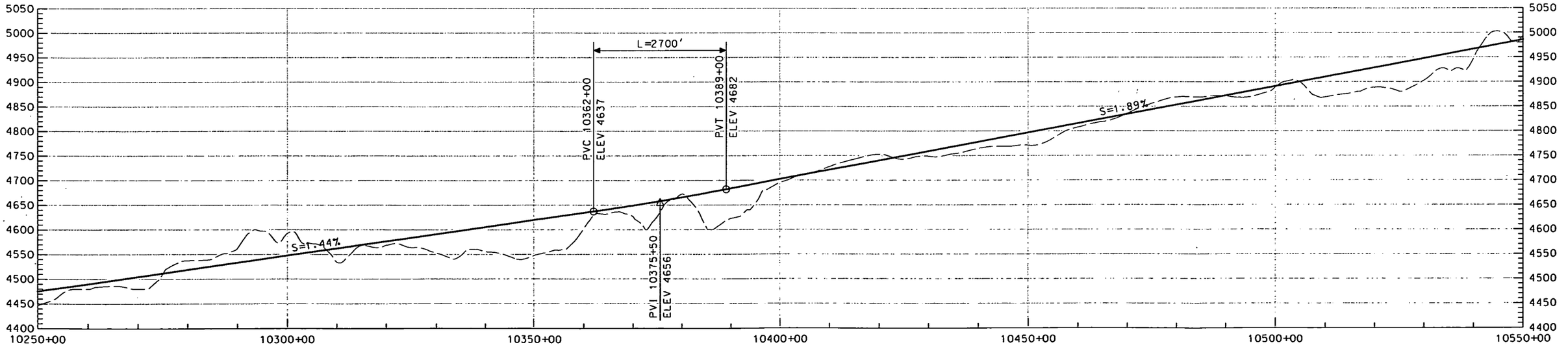
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
10000+00 TO 10250+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
A3	AS SHOWN	NRP-0-S601-PP-0061-00	00
SAFETY CATEGORY	CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 61 OF 69	





THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY: PTO	
ORIGINATOR: PTO	
CHECKER: SNE	
VERIFICATION: JRC	
DESIGN LEAD ENGINEER: LEM	
QUALITY ENGINEERING REP: TMS	
PROJECT ENGINEER: JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation
BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
10250+00 TO 10550+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S602-PP-0062-00	00
SAFETY CATEGORY		CAD SOFTWARE: MICROSTATION V08.05.02.27	SHEET 62 OF 69

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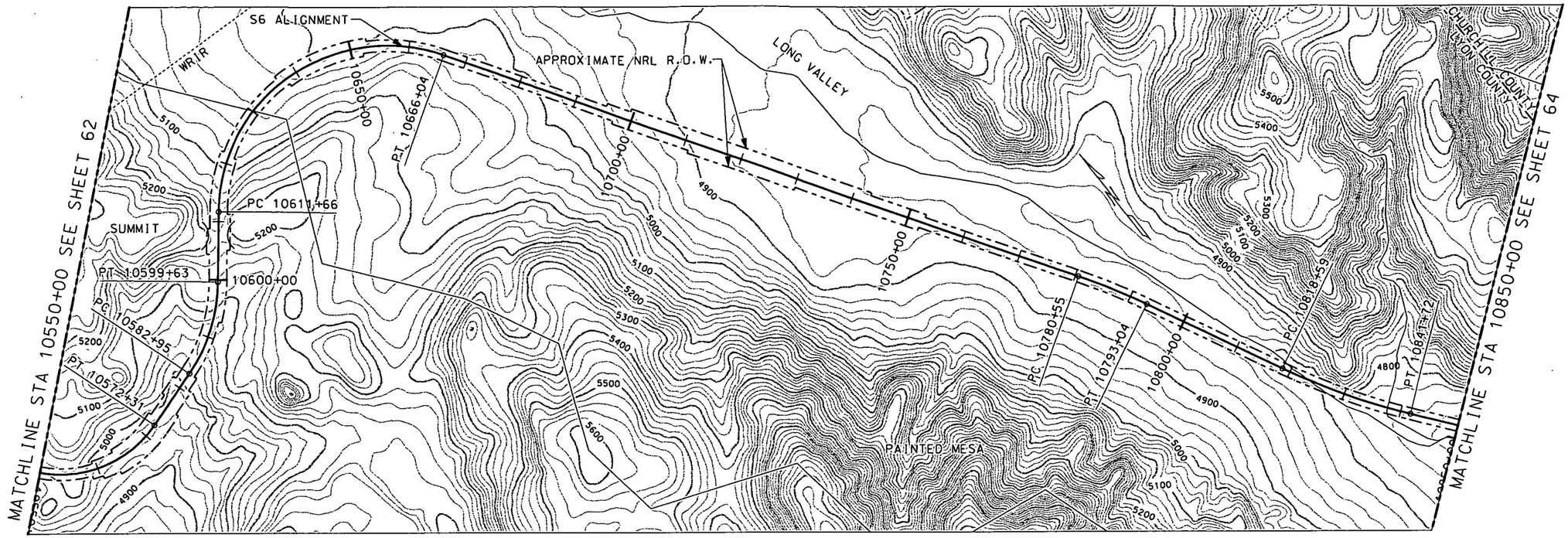
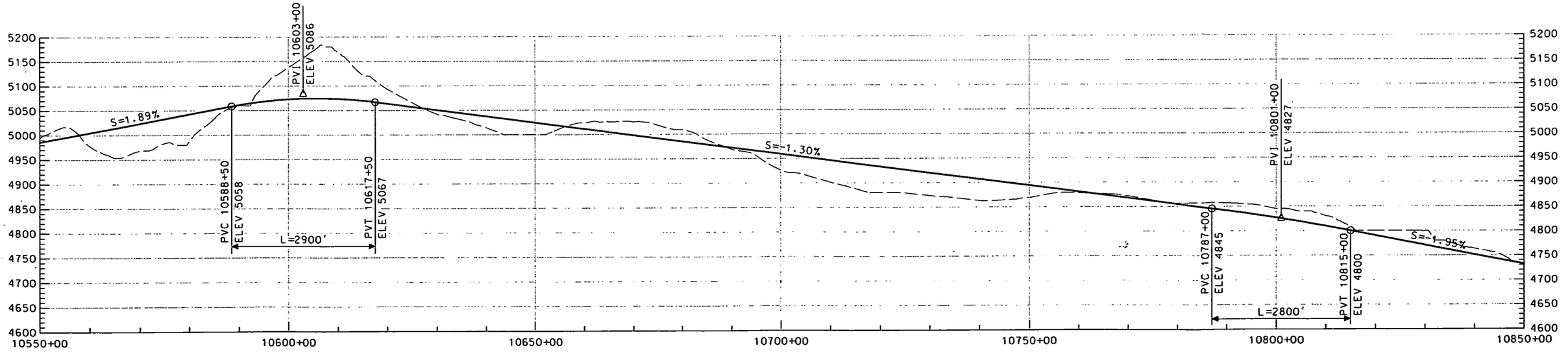




THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY, LLC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	CRE	CHK	HEA	CLE	OCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

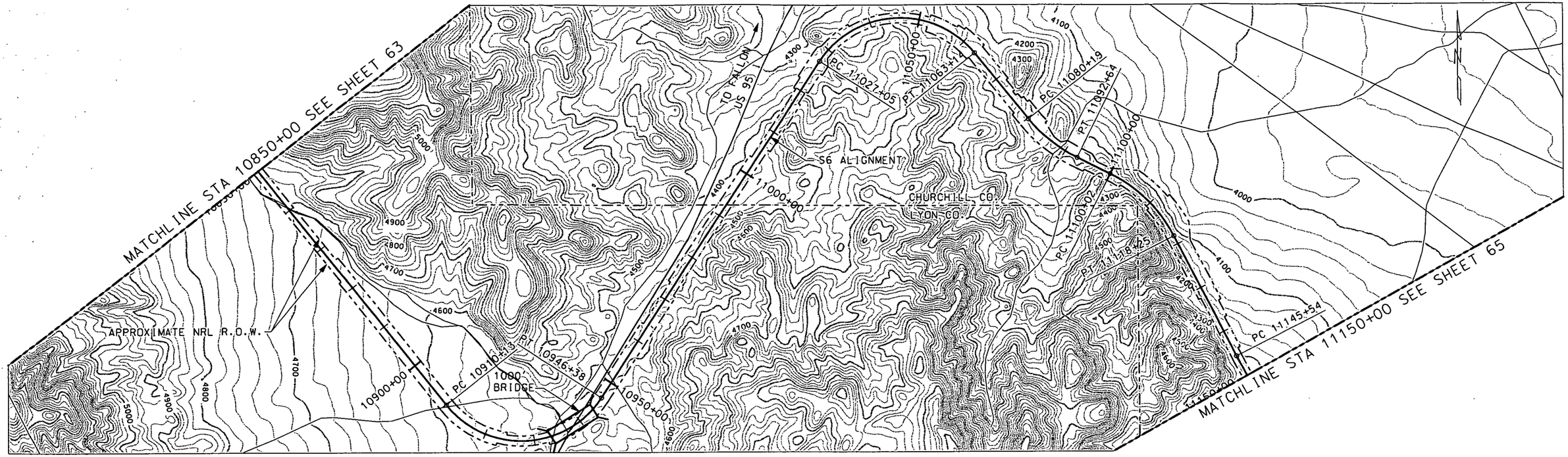
APPROVALS	DATE
DRAWN BY PTO	
DESIGNED PTO	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD CHECKED LEM	
QUALITY ENGINEERING REP IMS	
PROJECT ENGINEER JRC	

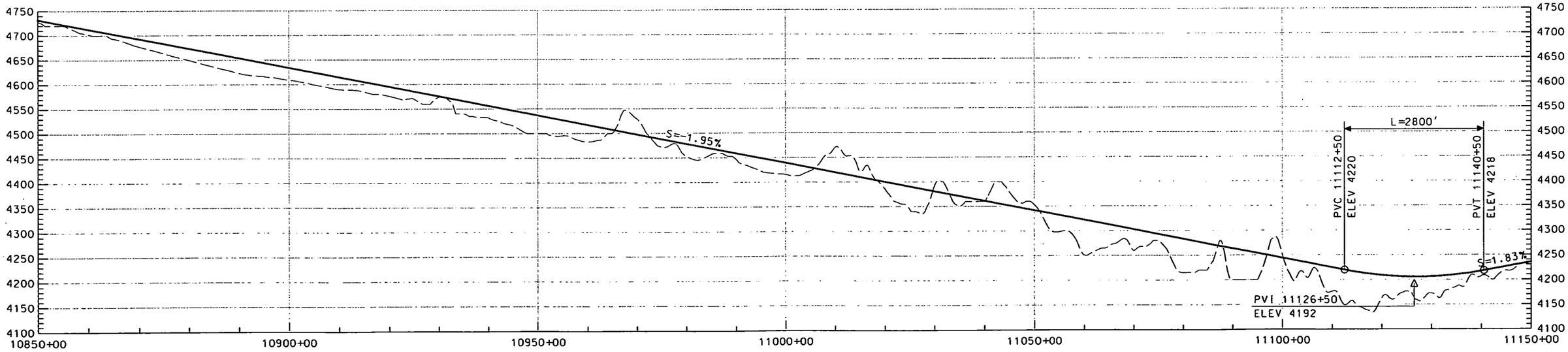
U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC — Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
10550+00 TO 10850+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S603-PP-0063-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 63 OF 69





GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

REV	DESCRIPTION	DATE	DRN	DSG	CHK	VCR	CLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY PTO	
DESIGNATOR PTO	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
10850+00 TO 11150+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S604-PP-0064-00	00
SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 64 OF 69

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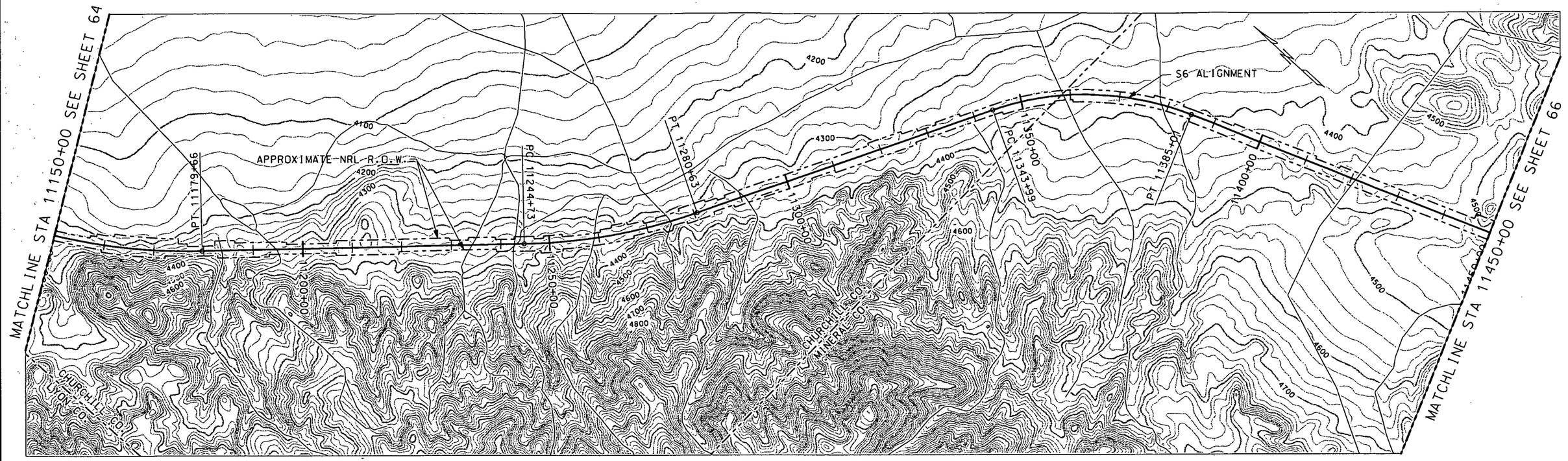

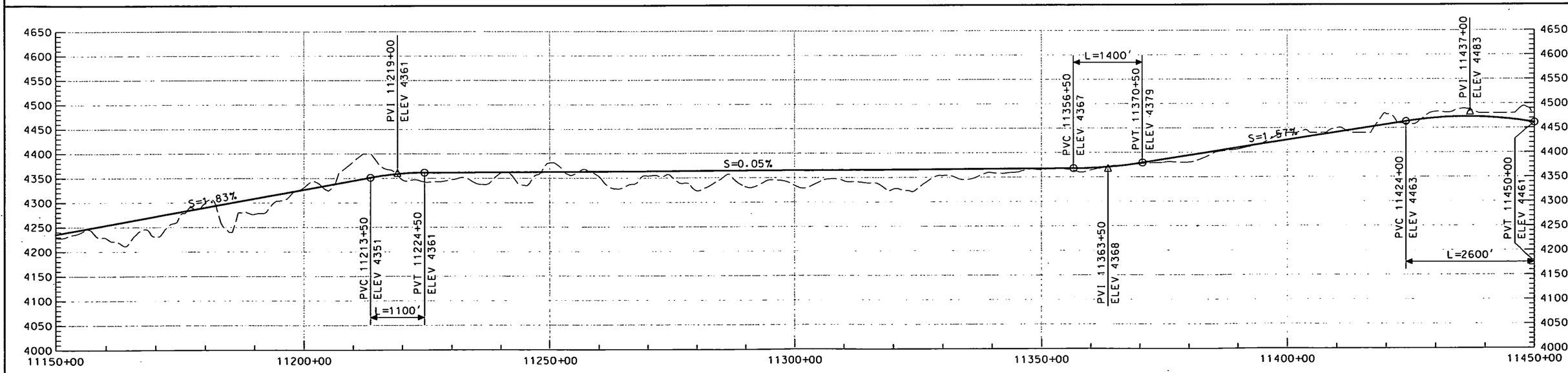

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE
H 500' 0 500' 1000' 2000'
V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

REV	DESCRIPTION	DATE	DRN	ORG	CHK	VCH	DLE	DCP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY PTO	
ORIGINATOR PTO	
CHECKED SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
11150+00 TO 11450+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S605-PP-0065-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V03.05.02.27	SHEET 65 OF 69

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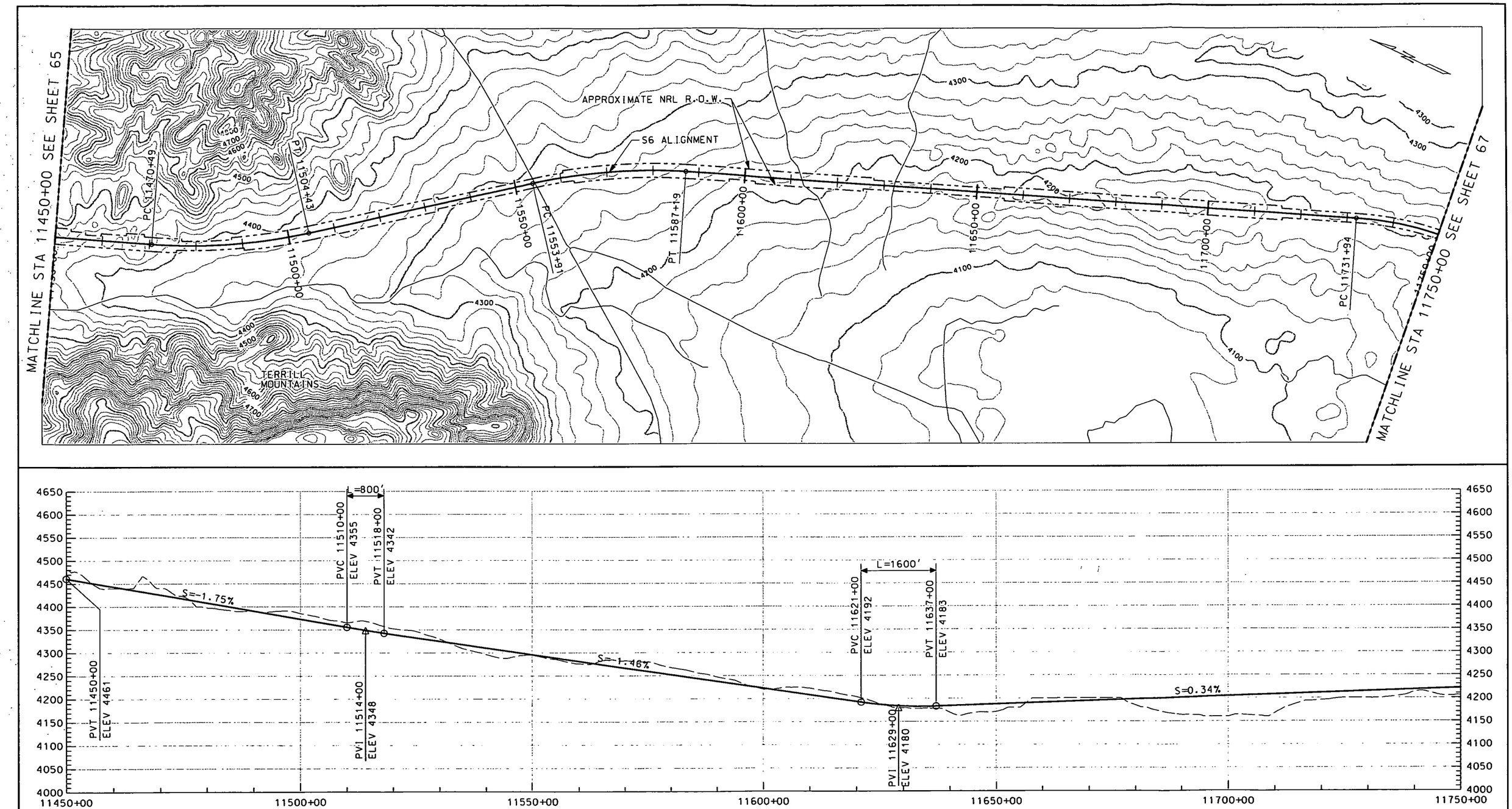

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GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE
00	ISSUED FOR DEIS REFERENCE	4/23/07

APPROVALS	INITIAL/DATE
DRAWN BY PTO	
ORIGINATOR PTO	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY, LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
11450+00 TO 11750+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S606-PP-0066-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 66 OF 69

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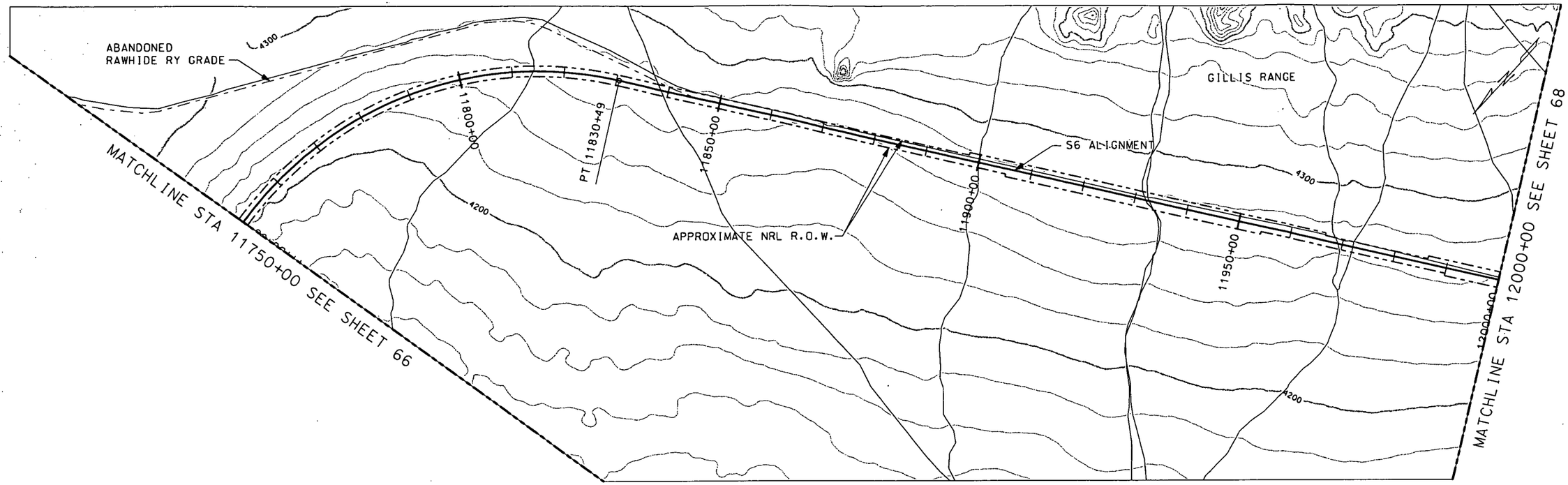

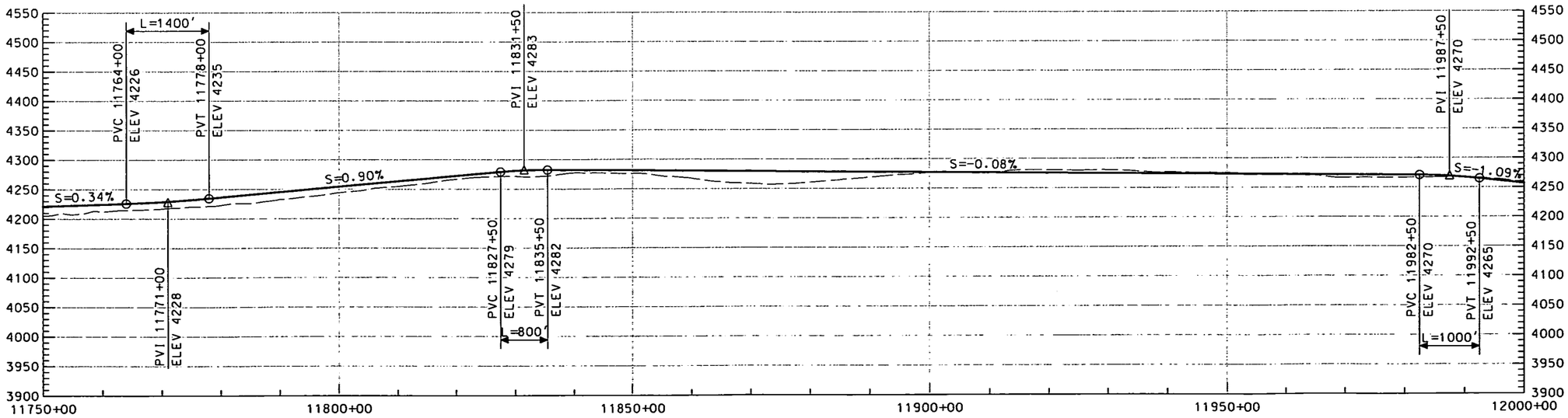

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

GRAPHIC SCALE

H 500' 0 500' 1000' 2000'

V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANIES

NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	ENG	CHK	MGR	DLE	GEP	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY PTO	
DESIGNER PTO	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANIES Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
11750+00 TO 12000+00

SIZE	SCALE	DOCUMENT IDENTIFIER	REV
	AS SHOWN	NRP-D-S607-PP-0067-00	00
SAFETY CATEGORY		CAD SOFTWARE MICROSTATION V08.05.02.27	SHEET 67 OF 69

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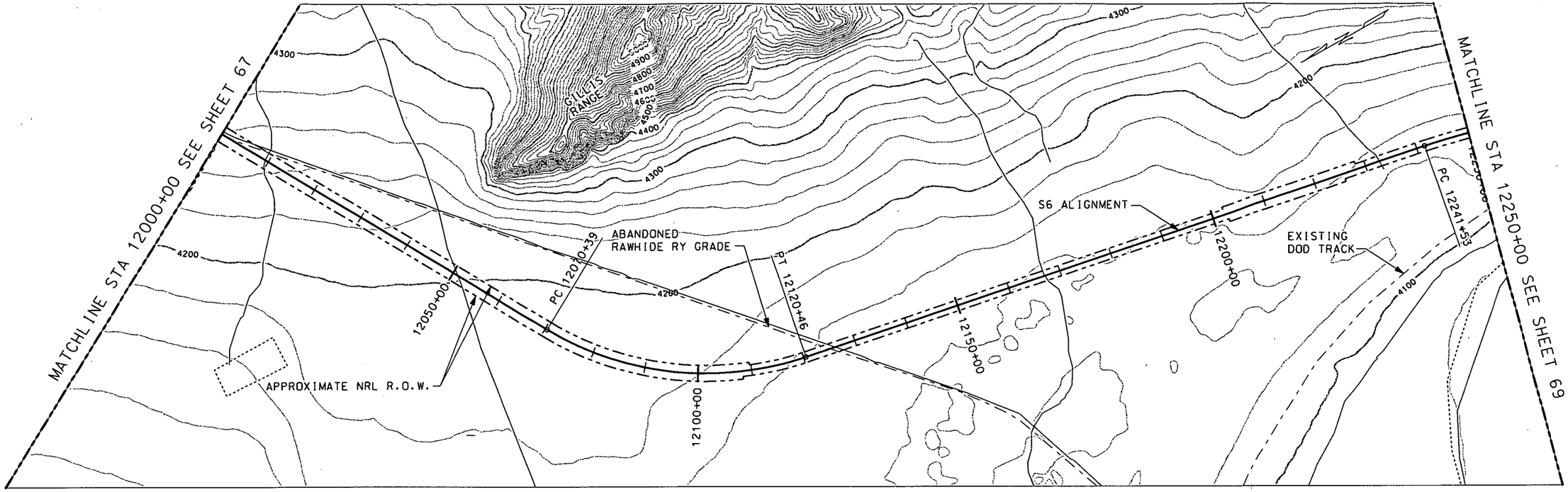

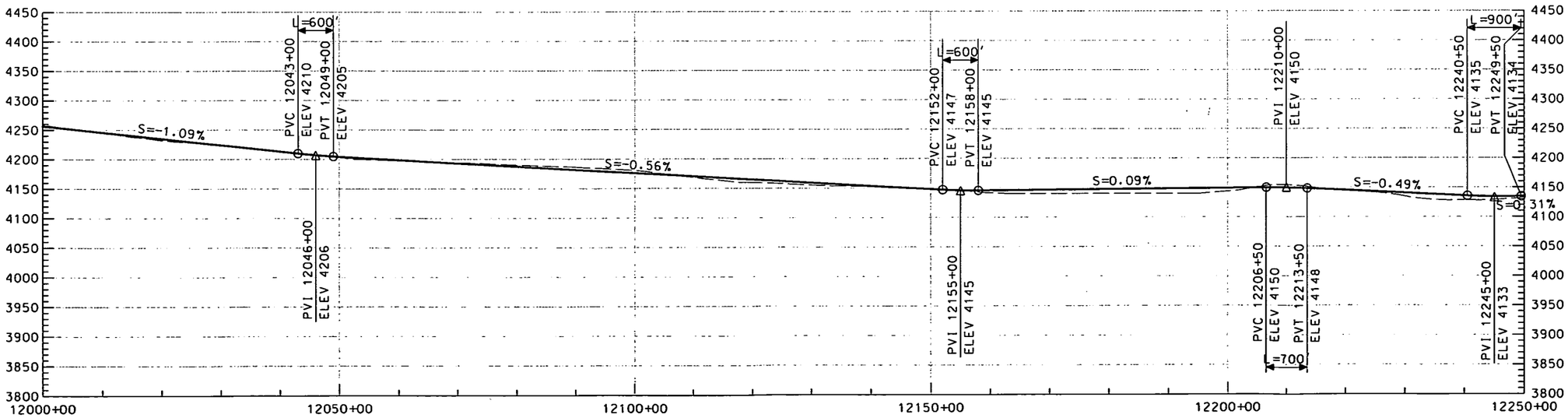

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

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V 50' 50' 100' 200'

NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY LLC | NEVADA RAIL PARTNERS

REV	DESCRIPTION	DATE	DRN	DSE	CHK	VER	DLE	DCR	PE
00	ISSUED FOR DEIS REFERENCE	4/23/07							

APPROVALS	INITIAL/DATE
DRAWN BY PTO	
ORIGINATOR PTO	
CHECKER SNE	
VERIFICATION JRC	
DESIGN LEAD ENGINEER LEM	
QUALITY ENGINEERING REP TMS	
PROJECT ENGINEER JRC	

U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

S6
12000+00 TO 12250+00

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SAFETY CATEGORY	CAD SOFTWARE	MICROSTATION V08.05.02.27	SHEET 68 OF 69

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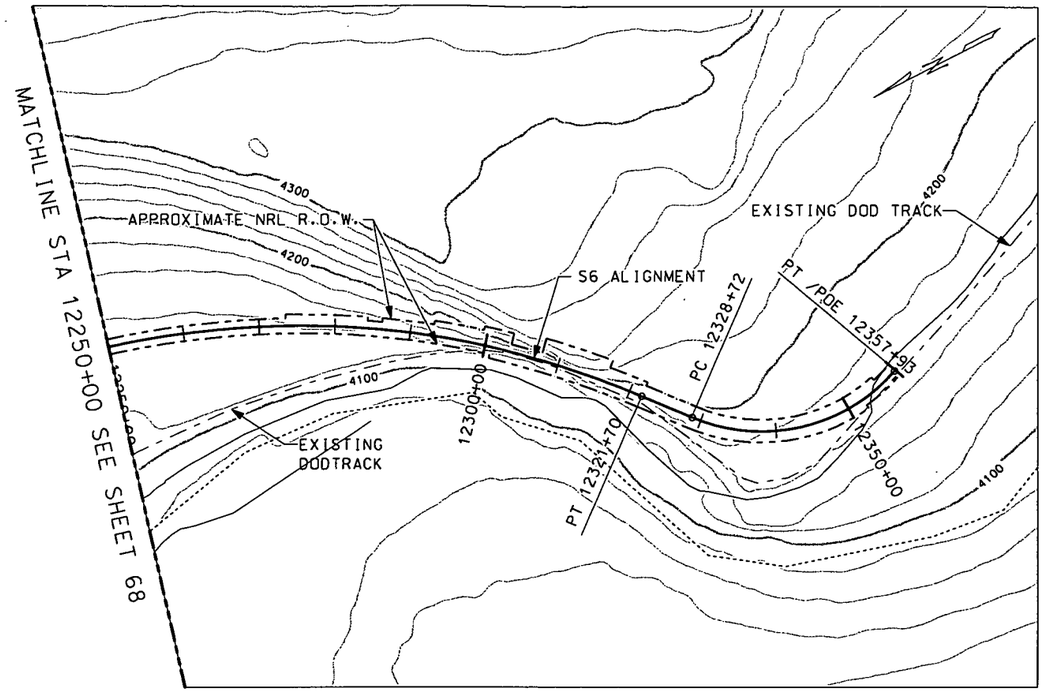

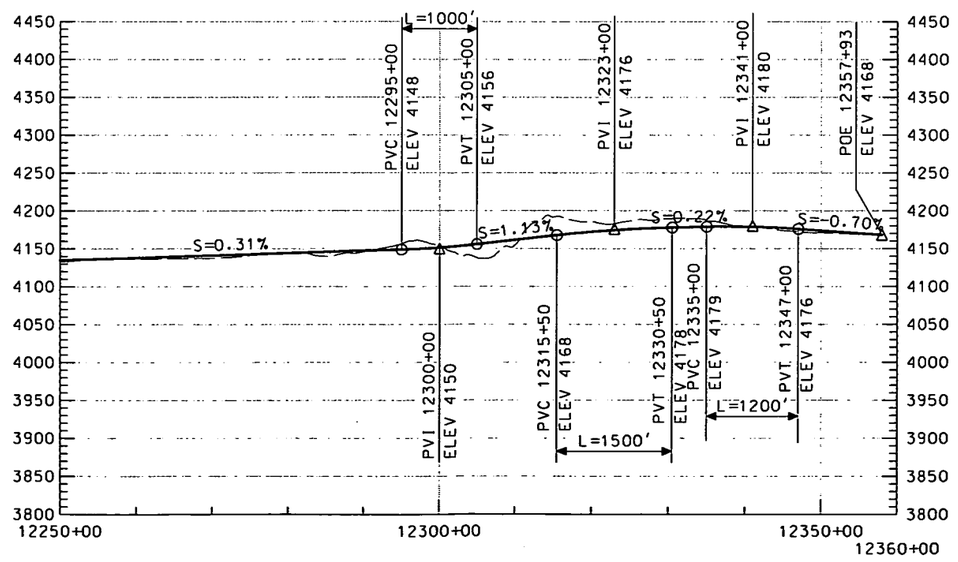

THIS DRAWING IS CONCEPTUAL AND NOT INTENDED FOR CONSTRUCTION.

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NEVADA RAIL PARTNERS
NEVADA RAIL LINE CONCEPTUAL DESIGN
SUBCONTRACT NN-HC4-00239
TASK 6 - ALIGNMENT DEV. & DRAFT EIS INPUT

BECHTEL SAIC COMPANY

REV	DESCRIPTION	DATE
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U.S. DEPARTMENT OF ENERGY
Office of National Transportation

BECHTEL SAIC COMPANY LLC Management and Operation of the Office of Civilian Radioactive Waste Management Program

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OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
SPECIAL INSTRUCTION SHEET

1. QA: N/A

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4. Author Name(s)	5. Authorization Organization
N/A	Nevada Rail Partners

6. Title/Description
Engineered Plan & Profile Drawing Set Mina Rail Corridor

7. Document Number(s)	8. Version Designator
V0-HX00-NHC4-00239-00112-001	002

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Media	2 CD's

11. Access Control Code
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12. Traceability Designator
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CD's: 1 Original & 1 copy

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14. RPC Electronic Media Verification

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MAY 23 2007 Vera L. Poole BSC-BS

MD5 Validation

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