

DCA-08-MR-009

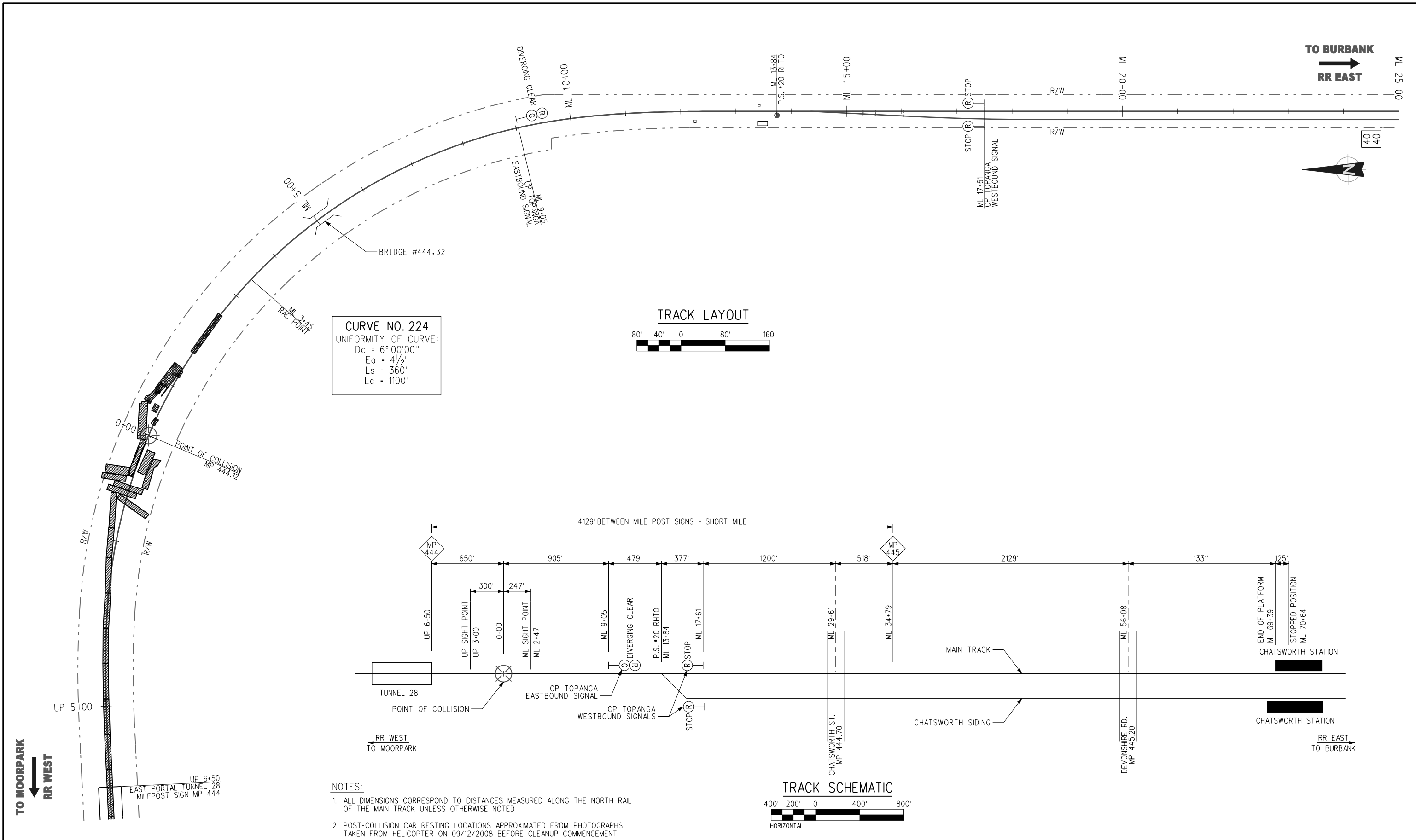
**Head-on collision of Metrolink Train No.
111 and Union Pacific Train LOF65-12**

Chatsworth, California

September 12, 2008

**Engineering Drawings—Sheet Nos. 1--5
(Accident site; Equipment Inventory;
Sight Distance; Signal Sight Distance;
Wreckage Distribution, respectively)**

6 pages, including cover



CURVE NO. 224
 UNIFORMITY OF CURVE:
 Dc = 6°00'00"
 Ea = 4 1/2"
 Ls = 360'
 Lc = 1100'

- NOTES:**
1. ALL DIMENSIONS CORRESPOND TO DISTANCES MEASURED ALONG THE NORTH RAIL OF THE MAIN TRACK UNLESS OTHERWISE NOTED
 2. POST-COLLISION CAR RESTING LOCATIONS APPROXIMATED FROM PHOTOGRAPHS TAKEN FROM HELICOPTER ON 09/12/2008 BEFORE CLEANUP COMMENCEMENT

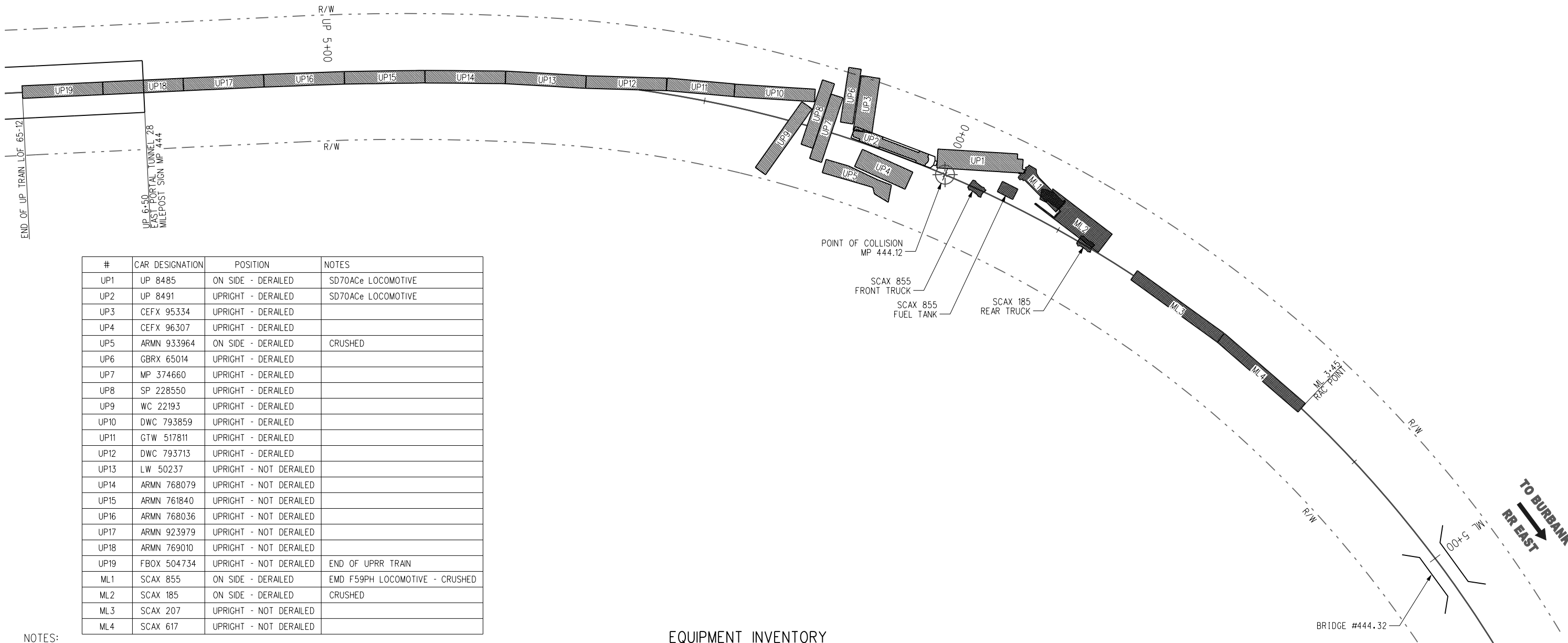
REV	DATE	DESCRIPTION	BY	SUB	APP
3	02/04/09	PER NTSB DRAWING REVIEW - SCRRA APPROVED	WM		DM
2	01/23/09	PER NTSB DRAWING REVIEW	WT		WM
1	01/16/09	PER NTSB DRAWING REVIEW	WT		WM

DRAWN BY: W. THOMPSON
 CHECKED BY: W. J. MAUTHE
 APPROVED BY: D. J. MAXEY
 DATE: JANUARY 8, 2009
 NTSB REF NO. DCA-08-MR-009
 ACCIDENT DATE 09/12/2008

METROLINK COMMUTER RAIL SYSTEM
 CHATSWORTH INCIDENT
 VENTURA SUBDIVISION - MP 444.12
 ACCIDENT SITE
 TRACK CONFIGURATION

DRAWING NO.	
REVISION 3	SHEET NO. 1
SCALE AS NOTED	

TO MOORPARK
←
RR WEST

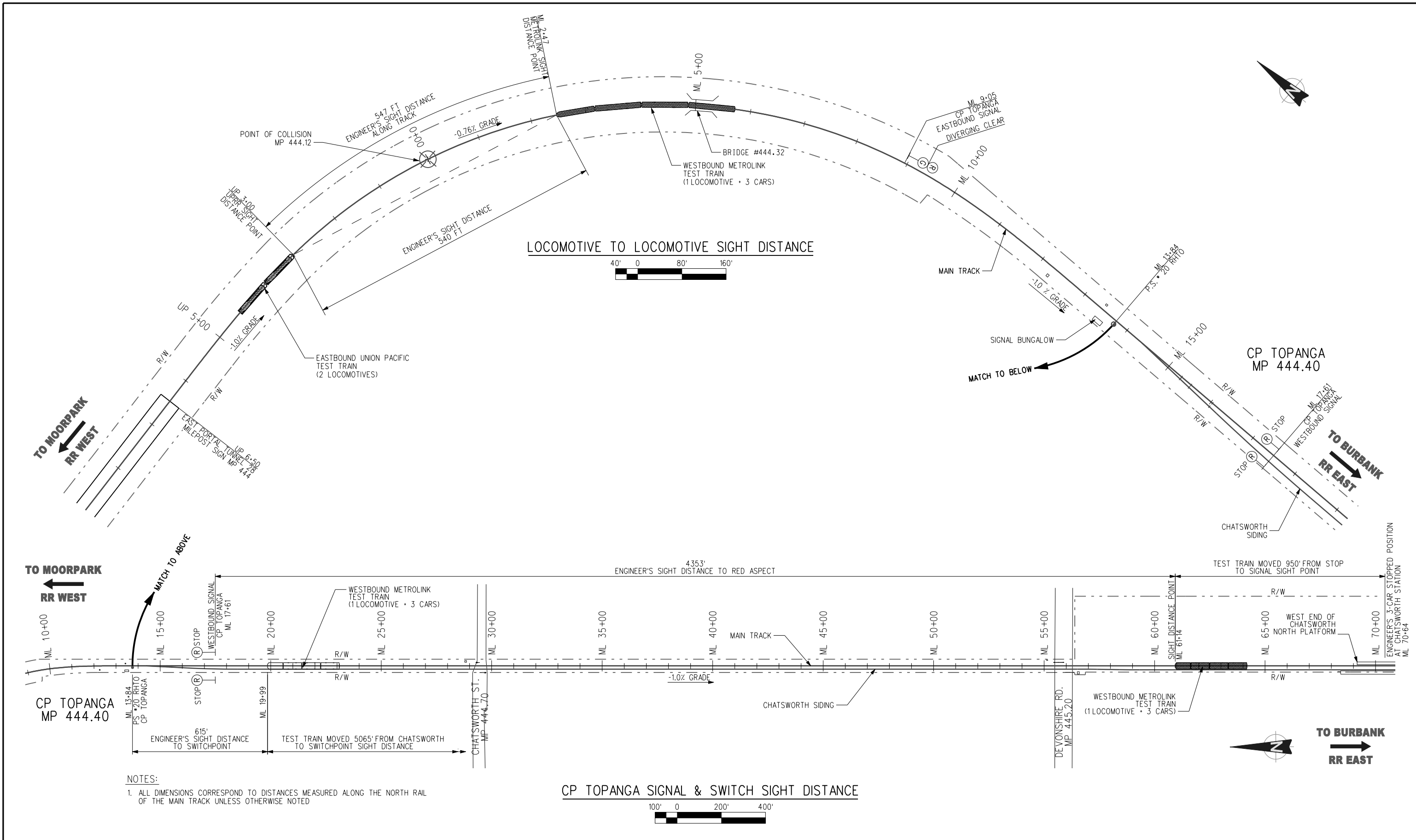


#	CAR DESIGNATION	POSITION	NOTES
UP1	UP 8485	ON SIDE - DERAILED	SD70ACe LOCOMOTIVE
UP2	UP 8491	UPRIGHT - DERAILED	SD70ACe LOCOMOTIVE
UP3	CEFX 95334	UPRIGHT - DERAILED	
UP4	CEFX 96307	UPRIGHT - DERAILED	
UP5	ARMN 933964	ON SIDE - DERAILED	CRUSHED
UP6	GBRX 65014	UPRIGHT - DERAILED	
UP7	MP 374660	UPRIGHT - DERAILED	
UP8	SP 228550	UPRIGHT - DERAILED	
UP9	WC 22193	UPRIGHT - DERAILED	
UP10	DWC 793859	UPRIGHT - DERAILED	
UP11	GTW 517811	UPRIGHT - DERAILED	
UP12	DWC 793713	UPRIGHT - DERAILED	
UP13	LW 50237	UPRIGHT - NOT DERAILED	
UP14	ARMN 768079	UPRIGHT - NOT DERAILED	
UP15	ARMN 761840	UPRIGHT - NOT DERAILED	
UP16	ARMN 768036	UPRIGHT - NOT DERAILED	
UP17	ARMN 923979	UPRIGHT - NOT DERAILED	
UP18	ARMN 769010	UPRIGHT - NOT DERAILED	
UP19	FBOX 504734	UPRIGHT - NOT DERAILED	END OF UPRR TRAIN
ML1	SCAX 855	ON SIDE - DERAILED	EMD F59PH LOCOMOTIVE - CRUSHED
ML2	SCAX 185	ON SIDE - DERAILED	CRUSHED
ML3	SCAX 207	UPRIGHT - NOT DERAILED	
ML4	SCAX 617	UPRIGHT - NOT DERAILED	

NOTES:
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<table border="1"> <tr> <td>3</td> <td>02/04/09</td> <td>PER NTSB DRAWING REVIEW - SCRRA APPROVED</td> <td>WM</td> <td>DM</td> </tr> <tr> <td>2</td> <td>01/23/09</td> <td>PER NTSB DRAWING REVIEW</td> <td>WT</td> <td>WM</td> </tr> <tr> <td>1</td> <td>01/16/09</td> <td>PER NTSB DRAWING REVIEW</td> <td>WT</td> <td>WM</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>SUB APP</td> </tr> </table>		3	02/04/09	PER NTSB DRAWING REVIEW - SCRRA APPROVED	WM	DM	2	01/23/09	PER NTSB DRAWING REVIEW	WT	WM	1	01/16/09	PER NTSB DRAWING REVIEW	WT	WM	REV	DATE	DESCRIPTION	BY	SUB APP	<table border="1"> <tr> <td>DRAWN BY</td> <td>W. THOMPSON</td> </tr> <tr> <td>CHECKED BY</td> <td>W. J. MAUTHE</td> </tr> <tr> <td>APPROVED BY</td> <td>D. J. MAXEY</td> </tr> <tr> <td>DATE</td> <td>JANUARY 8, 2009</td> </tr> </table>	DRAWN BY	W. THOMPSON	CHECKED BY	W. J. MAUTHE	APPROVED BY	D. J. MAXEY	DATE	JANUARY 8, 2009	<p>NTSB REF NO. DCA-08-MR-009 ACCIDENT DATE 09/12/2008</p>	<p>METROLINK COMMUTER RAIL SYSTEM CHATSWORTH INCIDENT VENTURA SUBDIVISION - MP 444.12</p> <p>ACCIDENT SITE EQUIPMENT INVENTORY</p>	<table border="1"> <tr> <td colspan="2">DRAWING NO.</td> </tr> <tr> <td>REVISION 3</td> <td>SHEET NO. 2</td> </tr> <tr> <td colspan="2">SCALE AS NOTED</td> </tr> </table>	DRAWING NO.		REVISION 3	SHEET NO. 2	SCALE AS NOTED	
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CP TOPANGA SIGNAL & SWITCH SIGHT DISTANCE

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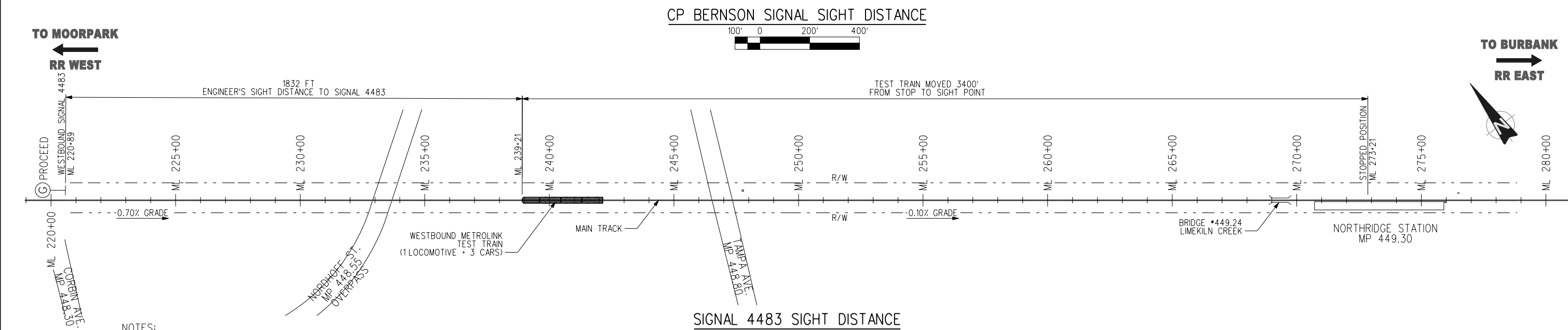
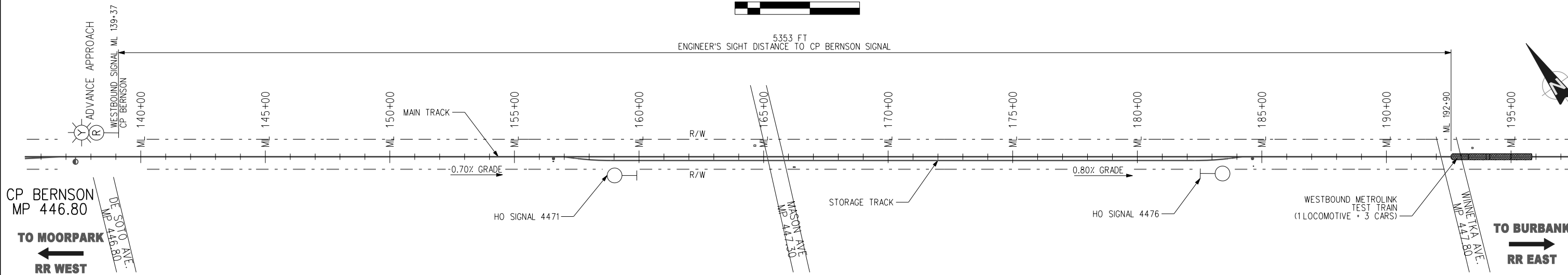
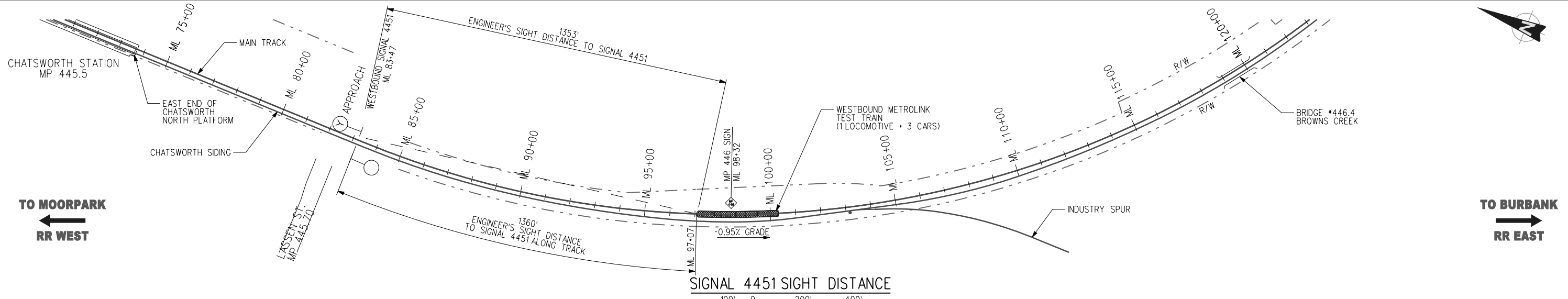
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METROLINK COMMUTER RAIL SYSTEM
 CHATSWORTH INCIDENT
 VENTURA SUBDIVISION - MP 444.12

ENGINEER'S LOCOMOTIVE TO LOCOMOTIVE SIGHT DISTANCE
 ENGINEER'S CP TOPANGA SIGNAL & SWITCH SIGHT DISTANCE

DRAWING NO.	
REVISION 3	SHEET NO. 3
SCALE AS NOTED	



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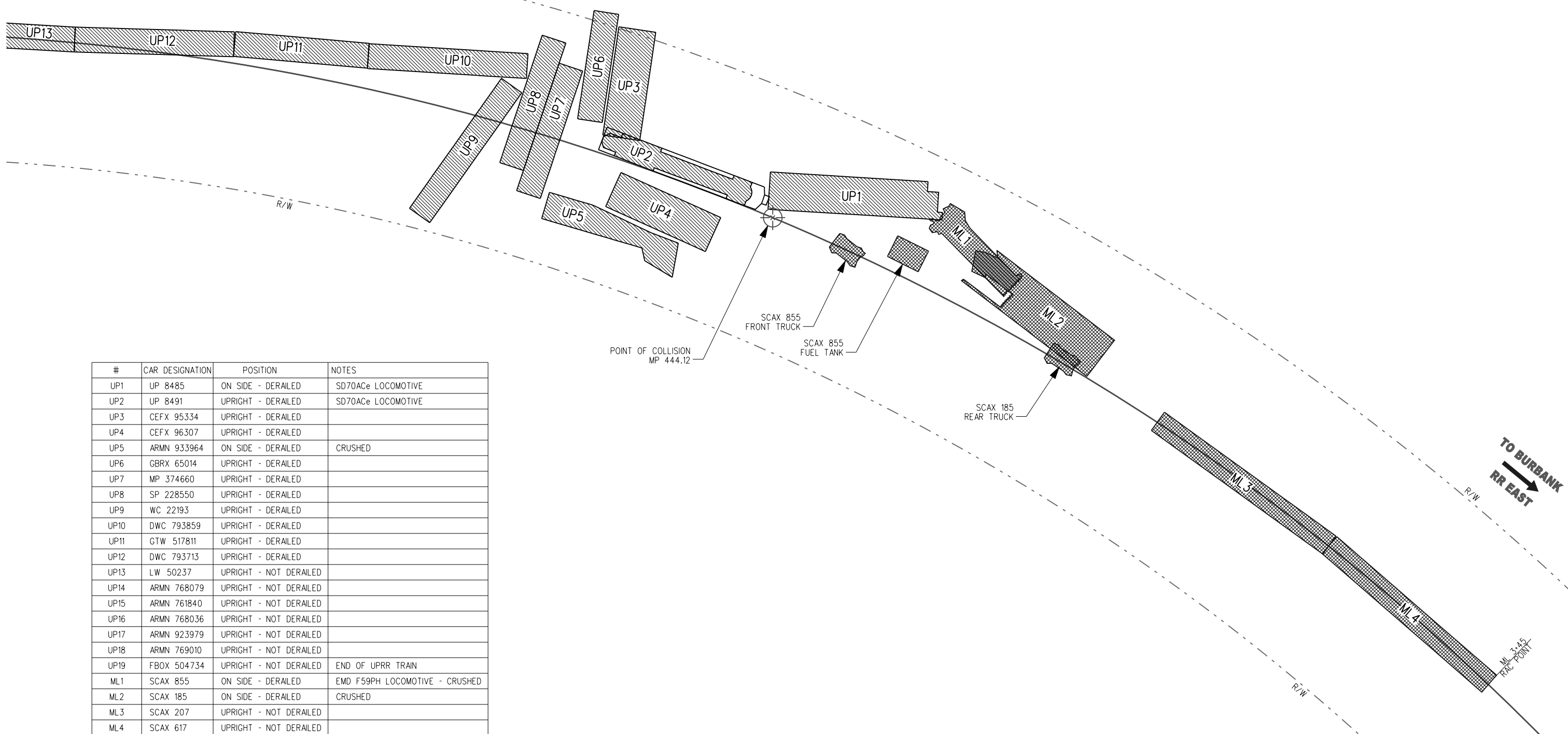
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METROLINK COMMUTER RAIL SYSTEM
 CHATSWORTH INCIDENT
 VENTURA SUBDIVISION - MP 444.12
 ENGINEER'S SIGHT DISTANCE - SIGNAL 4451
 ENGINEER'S SIGHT DISTANCE - CP BERNSON
 ENGINEER'S SIGHT DISTANCE - SIGNAL 4483

DRAWING NO.	
REVISION 3	SHEET NO. 4
SCALE AS NOTED	

TO MOORPARK

RR WEST



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WRECKAGE DISTRIBUTION DETAIL



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METROLINK COMMUTER RAIL SYSTEM
CHATSORTH INCIDENT
VENTURA SUBDIVISION - MP 444.12

ACCIDENT SITE MAP
WRECKAGE DISTRIBUTION DETAIL

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