

Exceptional arrangements of signals:  
Track vertical slope is 10,6% uphill at signal N071, N072 and N073 location.

Exceptional arrangements of signals:  
Track vertical slope is 15 % downhill at signal S131 and S132 location.  
Track vertical slope is 10,8 % uphill at signal N121, N122 and N103. Signals N131 and N132 cannot be the endpoint of train routes.

Note 1: The signalling system at Nueva Terminal will be totally renewed. The tracks and switches will be reused between 0+500-1+220.  
Note 2: The final placement of the Nueva Terminal/Carnelli interlocking housing location shall be specified later.

Track	Total length	Train length
071	442 m	412 m
072	346 m	316 m
073	428 m	408 m

Track	Total length
103	296 m

Track	Total length
172	87 m
173	87 m

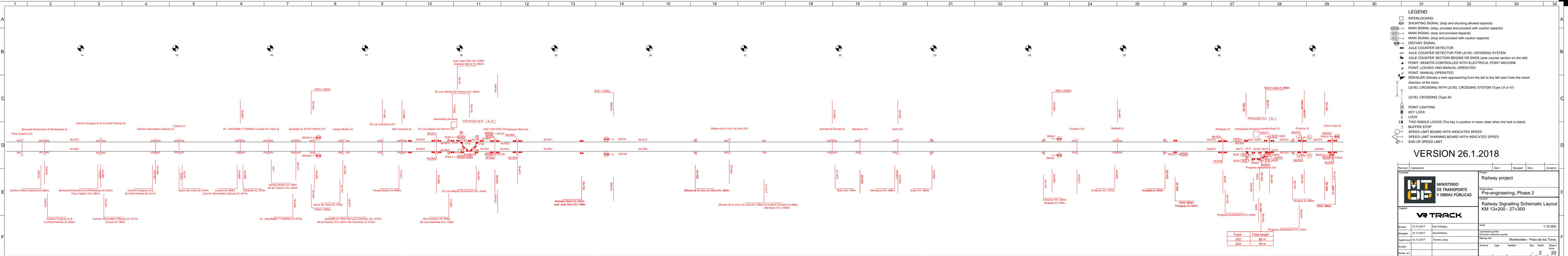
- LEGEND**
- INTERLOCKING
  - ⊕ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊕ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊕ MAIN SIGNAL (stop and proceed aspects)
  - ⊕ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊕ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ∞ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - LEVEL CROSSING (Type III)
  - ⊕ POINT LIGHTING
  - ⊕ KEY LOCK
  - ⊕ LOCK
  - ⊕ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊕ BUFFER STOP
  - ⊕ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊕ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊕ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor

<p>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</p>	Project	Railway project		
	Design phase	Pre-engineering, Phase 2		
	Content	Railway Signalling Schematic Layout KM 0+500 - 13+200		
Supplier				
Drawer	15.12.2017	Kai Kihitelys	Scale	(km 0, 1:5 000) 1:10 000
Designer	15.12.2017	Kai Kihitelys	Coordinate system	
Supervisor	15.12.2017	Tommi Latva	Elevation reference system	
Accept.			Railway line	Montevideo - Paso de los Toros
Owner acc.			Archive	Type Number Rev. Sheet Sheets total



- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ∞ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

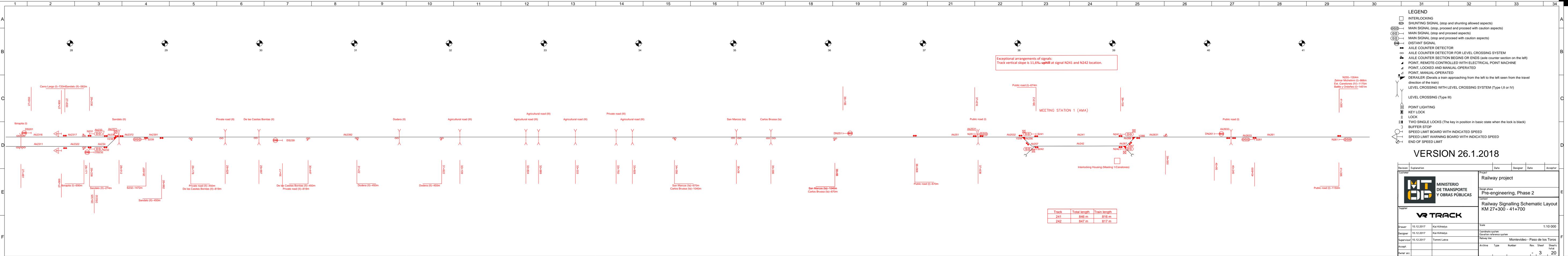
Revision	Explanation	Date	Designer	Date	Acceptor

<p><b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b></p>	Project	Railway project
	Design phase	Pre-engineering, Phase 2
	Content	Railway Signalling Schematic Layout KM 13+200 - 27+300
Supplier		

Drawer	15.12.2017	Kai Kihitelys	Scale	1:10 000
Designer	15.12.2017	Kai Kihitelys	Coordinate system	
Supervisor	15.12.2017	Tommi Latva	Elevation reference system	
			Railway line	Montevideo - Paso de los Toros
Accept.			Archive	Type Number Rev. Sheet Sheets total
Owner acc.				2 20



Exceptional arrangements of signals:  
Track vertical slope is 11,6‰ uphill at signal N241 and N242 location.

Track	Total length	Train length
241	846 m	816 m
242	847 m	817 m

**LEGEND**

- INTERLOCKING
- SHUNTING SIGNAL (stop and shunting allowed aspects)
- MAIN SIGNAL (stop, proceed and proceed with caution aspects)
- MAIN SIGNAL (stop and proceed aspects)
- MAIN SIGNAL (stop and proceed with caution aspects)
- DISTANT SIGNAL
- AXLE COUNTER DETECTOR
- AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
- POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
- POINT, LOCKED AND MANUAL-OPERATED
- POINT, MANUAL-OPERATED
- DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
- LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
- LEVEL CROSSING (Type III)
- POINT LIGHTING
- KEY LOCK
- LOCK
- TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
- BUFFER STOP
- SPEED LIMIT BOARD WITH INDICATED SPEED
- SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
- END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor

Customer	Project					
<b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>	Railway project					
	Design phase Pre-engineering, Phase 2					
Supplier	Content					
	Railway Signalling Schematic Layout					
	KM 27+300 - 41+700					
Drawer	Scale					
15.12.2017	Kai Kihitelys	1:10 000				
Designer	Coordinate system					
15.12.2017	Kai Kihitelys	Elevation reference system				
Supervisor	Railway line					
15.12.2017	Tommi Latva	Montevideo - Paso de los Toros				
Accept.	Archive	Type	Number	Rev.	Sheet	Sheets total
Owner acc.						



Level crossing warning design speed is 80 km/h between km 41-47. If speed changes, the length of approach section can altered accordingly.

Exceptional arrangements of signals: Track vertical slope is 13,9 % downhill at signal S255 location. Track vertical slope is 9,4 % downhill at signal N255, N256 and N257 location.

Exceptional arrangements of signals: Track vertical slope is 11,2 % downhill at signal S291 location.

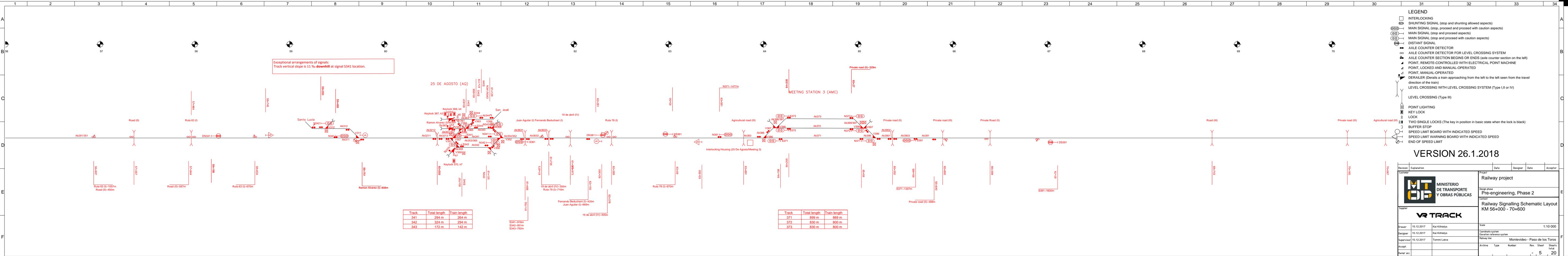
Track	Total length	Train length
255	300 m	270 m
256	167 m	137 m
257	167 m	137 m

Track	Total length	Train length
271	831 m	801 m
272	830 m	800 m

- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 41+700 - 56+000				
Supplier					
Drawer	15.12.2017	Kai Kihitelys	Scale	1:10 000	
Designer	15.12.2017	Kai Kihitelys	Coordinate system	Elevation reference system	
Supervisor	15.12.2017	Tommi Latva	Railway line	Montevideo - Paso de los Toros	
Accept.			Archive	Type	Number
Owner acc.				Rev.	Sheet
				4	20



Exceptional arrangements of signals:  
Track vertical slope is 11 % downhill at signal S341 location.

- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

Track	Total length	Train length
341	294 m	264 m
342	324 m	294 m
343	172 m	142 m

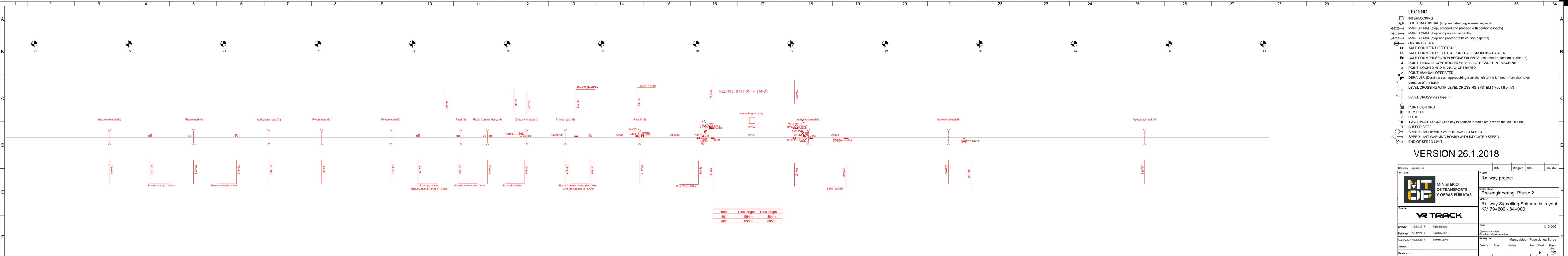
Track	Total length	Train length
371	899 m	869 m
372	830 m	800 m
373	830 m	800 m

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor

Customer	Project					
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>	Railway project					
	Design phase Pre-engineering, Phase 2					
Supplier	Content					
	Railway Signalling Schematic Layout KM 56+000 - 70+600					
Drawer	Scale					
15.12.2017	Kai Kihitelys	1:10 000				
Designer	Coordinate system					
15.12.2017	Kai Kihitelys	Elevation reference system				
Supervisor	Railway line					
15.12.2017	Tommi Latva	Montevideo - Paso de los Toros				
Accept.	Archive	Type	Number	Rev.	Sheet	Sheets total
Owner acc.					5	20

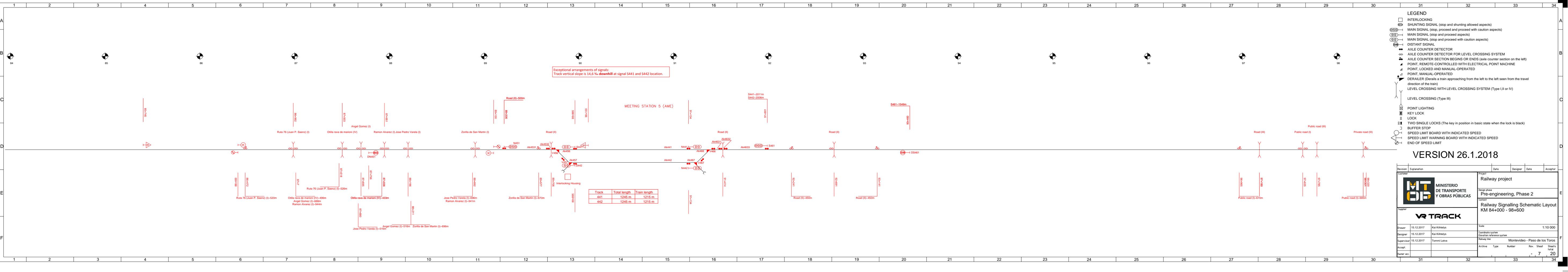


- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ∞ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 70+600 - 84+000				
Supplier					
Drawer	15.12.2017	Kai Kihitelys	Scale	1:10 000	
Designer	15.12.2017	Kai Kihitelys	Coordinate system	Elevation reference system	
Supervisor	15.12.2017	Tommi Latva	Railway line	Montevideo - Paso de los Toros	
Accept.			Archive	Type	Number
Owner acc.					Rev. Sheet total
					6 20

Track	Total length	Train length
401	894 m	864 m
402	895 m	865 m



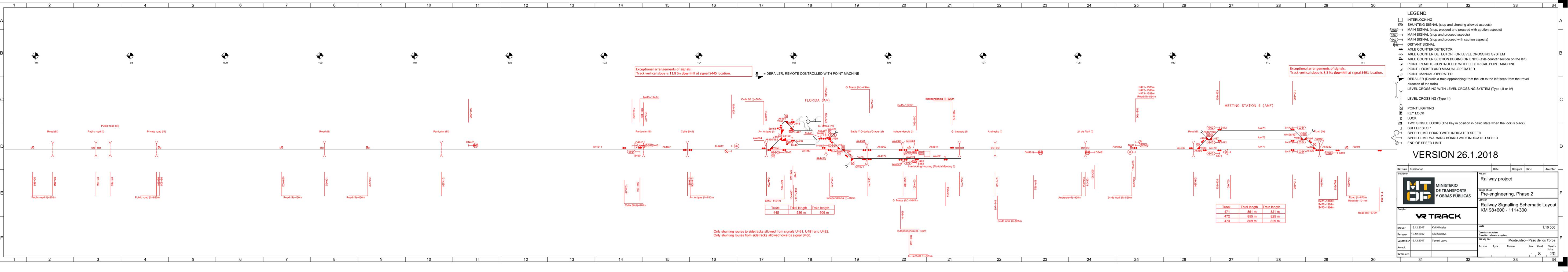
Exceptional arrangements of signals:  
Track vertical slope is 14,6% downhill at signal S441 and S442 location.

Track	Total length	Train length
441	1245 m	1215 m
442	1245 m	1215 m

- LEGEND**
- ☐ INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - ⊗ AXLE COUNTER DETECTOR
  - ⊗ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⊗ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - ⊗ LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
  - ⊗ LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		Project: Railway project		
Supplier			Design phase: Pre-engineering, Phase 2		
Drawer	15.12.2017	Kai Kiitelys	Scale: 1:10 000		
Designer	15.12.2017	Kai Kiitelys	Coordinate system: Elevation reference system		
Supervisor	15.12.2017	Tommi Latva	Railway line: Montevideo - Paso de los Toros		
Accept.			Archive	Type	Number
Owner acc.					Rev. Sheet total
					- 7 20



Exceptional arrangements of signals:  
Track vertical slope is 11,8 ‰ downhill at signal S445 location.

Exceptional arrangements of signals:  
Track vertical slope is 8,3 ‰ downhill at signal S491 location.

☐ = DERAILER, REMOTE CONTROLLED WITH POINT MACHINE

- LEGEND**
- ☐ INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
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  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
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  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

Track	Total length	Train length
445	536 m	506 m

Track	Total length	Train length
471	851 m	821 m
472	855 m	825 m
473	859 m	829 m

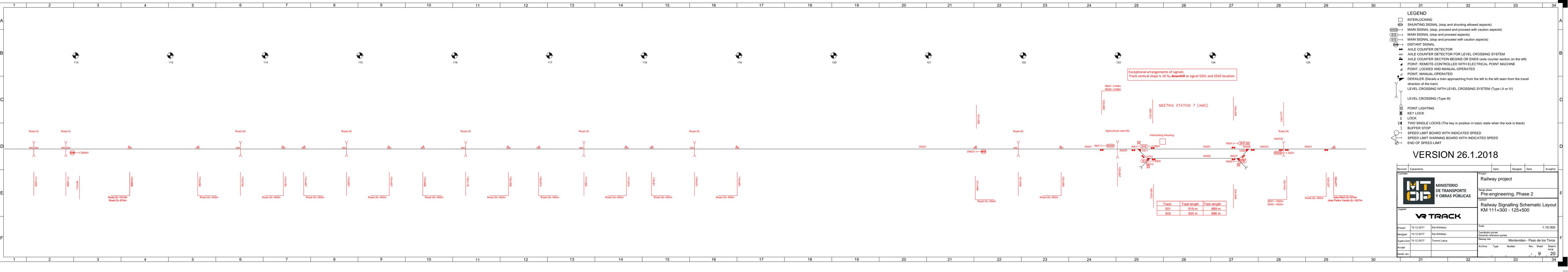
Only shunting routes to sidetracks allowed from signals U461, U481 and U482.  
Only shunting routes from sidetracks allowed towards signal S460.

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor

Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		Project	Railway project	
Supplier			Design phase	Pre-engineering, Phase 2	
			Content	Railway Signalling Schematic Layout KM 98+600 - 111+300	
			Scale	1:10 000	
			Coordinate system	Elevation reference system	
			Railway line	Montevideo - Paso de los Toros	
			Archive	Type	Number
			Rev.	Sheet	Sheets total
				8	20



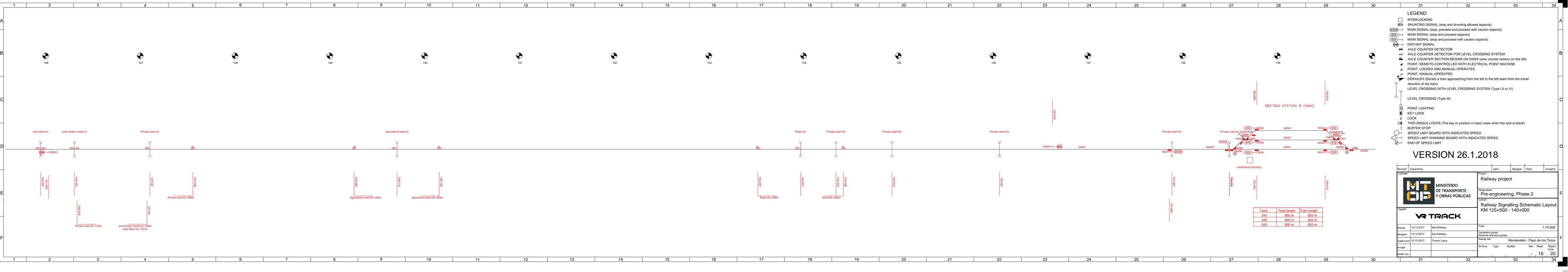
Exceptional arrangements of signals:  
Track vertical slope is 10 % downhill at signal S501 and S502 location.

Track	Total length	Train length
501	919 m	889 m
502	920 m	886 m

- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
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  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ∞ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>	Project			
Supplier		Railway project			
Designer		Pre-engineering, Phase 2			
Supervisor	Content				
Acceptor	Railway Signalling Schematic Layout				
		KM 111+300 - 125+500			
Scale	1:10 000				
Coordinate system	Montevideo - Paso de los Toros				
Elevation reference system					
Archive	Type	Number	Rev.	Sheet	Sheets total
				9	20

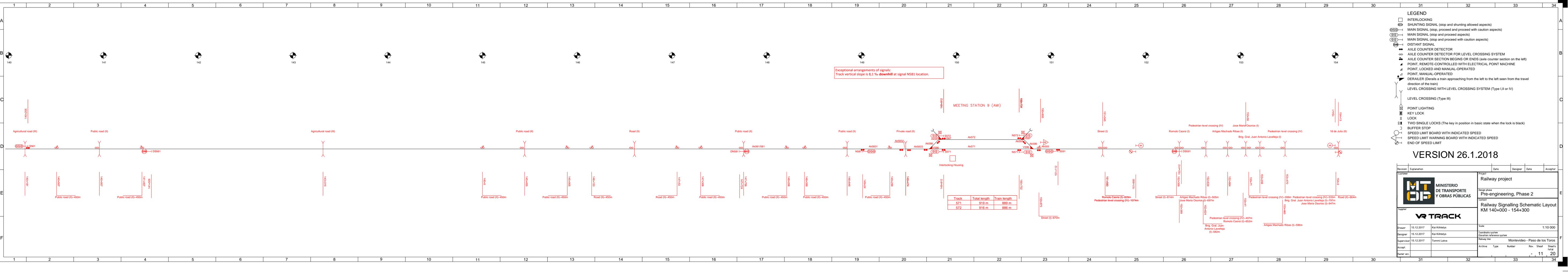


- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
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  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
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  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
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  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
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  - LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
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  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Track	Total length	Train length
541	850 m	820 m
542	850 m	820 m
543	850 m	820 m

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project		Railway project		
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		Design phase		Pre-engineering, Phase 2	
		Content		Railway Signalling Schematic Layout KM 125+500 - 140+000	
Supplier					
Drawer	15.12.2017	Kai Kiitelys	Scale		1:10 000
Designer	15.12.2017	Kai Kiitelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Accept.			Railway line		Montevideo - Paso de los Toros
Owner acc.			Archive	Type	Number
				Rev.	Sheet
					total
					10
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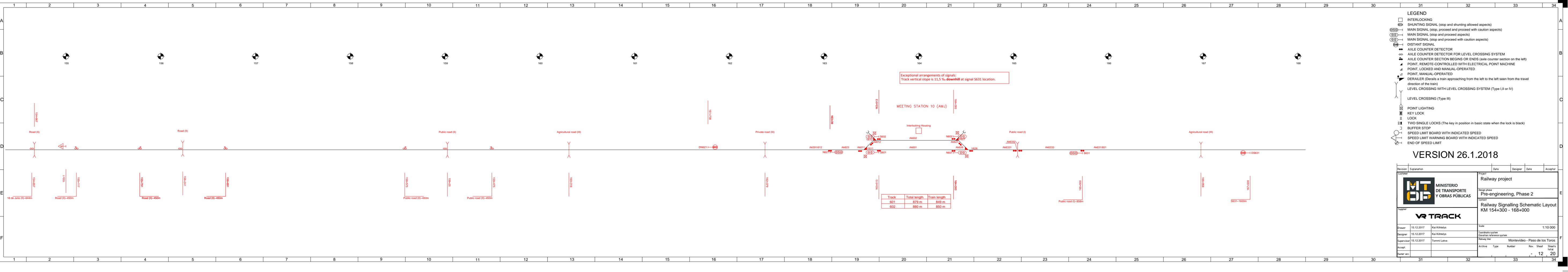
Exceptional arrangements of signals:  
Track vertical slope is 8,1 ‰ downhill at signal N581 location.

Track	Total length	Train length
571	919 m	889 m
572	916 m	886 m

- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
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  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
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  - LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 140+000 - 154+300				
Supplier					
Scale	1:10 000				
Coordinate system	Elevation reference system				
Railway line	Montevideo - Paso de los Toros				
Archive	Type	Number	Rev.	Sheet	Sheets total
				11	20



Exceptional arrangements of signals:  
Track vertical slope is 11,5 ‰ downhill at signal S631 location.

MEETING STATION 10 (AMJ)

Interlocking Housing

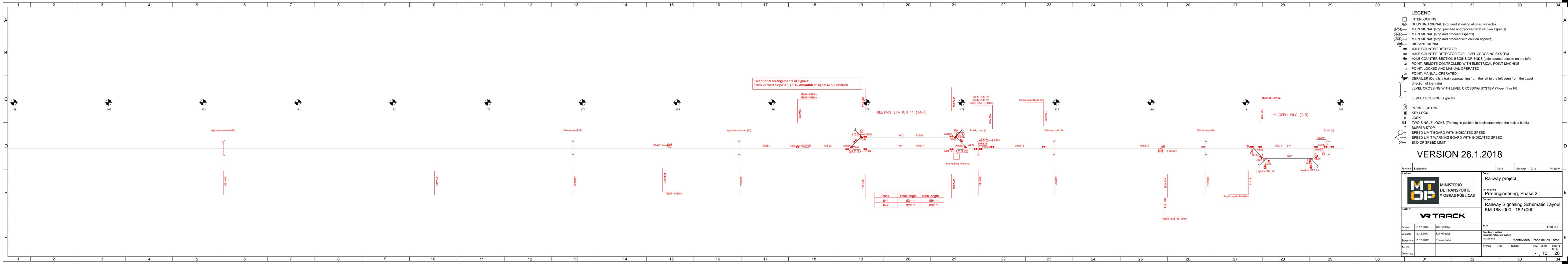
Track	Total length	Train length
601	879 m	849 m
602	880 m	850 m

**LEGEND**

- INTERLOCKING
- ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
- ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
- ⊗ MAIN SIGNAL (stop and proceed aspects)
- ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
- ⊗ DISTANT SIGNAL
- AXLE COUNTER DETECTOR
- ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
- AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
- ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
- ▲ POINT, LOCKED AND MANUAL-OPERATED
- ▲ POINT, MANUAL-OPERATED
- ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
- Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
- Y LEVEL CROSSING (Type III)
- ⊗ POINT LIGHTING
- ⊗ KEY LOCK
- ⊗ LOCK
- ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
- ⊗ BUFFER STOP
- ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
- ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
- ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor																																													
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<b>Customer</b>	<b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>	<b>Project</b>	Railway project																																															
<b>Design phase</b>	Pre-engineering, Phase 2	<b>Scale</b>	1:10 000																																															
<b>Content</b>	Railway Signalling Schematic Layout KM 154+300 - 168+000	<b>Coordinate system</b>	Elevation reference system																																															
<b>Supplier</b>	<b>VR TRACK</b>	<b>Railway line</b>	Montevideo - Paso de los Toros																																															
<b>Drawer</b>	15.12.2017 Kai Kihitelys	<b>Archive</b>	Type	Number																																														
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<b>Supervisor</b>	15.12.2017 Tommi Latva																																																	
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<b>Owner acc.</b>																																																		



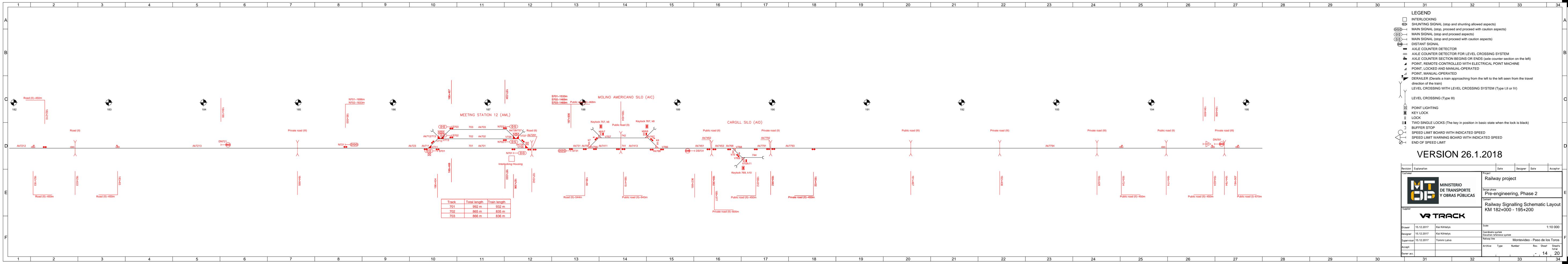
Exceptional arrangements of signals:  
Track vertical slope is 13,1 % downhill at signal N651 location.

Track	Total length	Train length
641	924 m	894 m
642	922 m	892 m

- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⚡ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

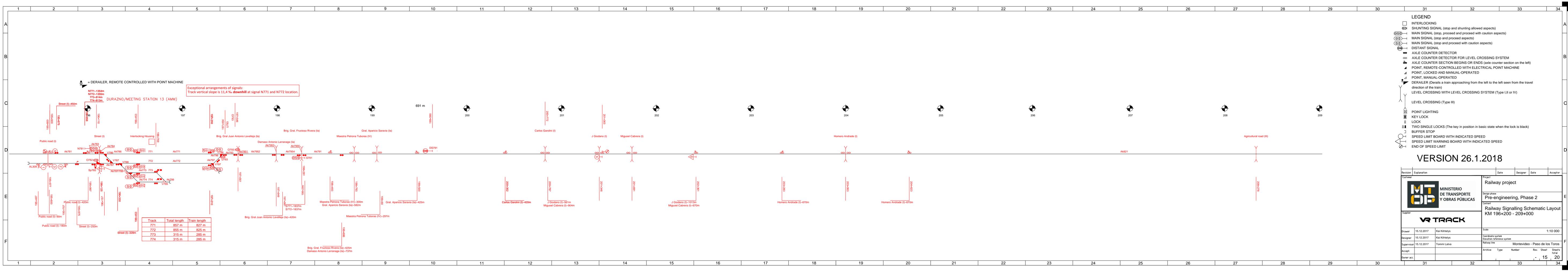
Revision	Explanation	Date	Designer	Date	Accepter
Customer	Railway project		Project		
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		<b>Pre-engineering, Phase 2</b>			
		<b>Railway Signalling Schematic Layout</b> <b>KM 168+000 - 182+000</b>			
Drawer	15.12.2017	Kai Kiihtelys	Scale: 1:10 000		
Designer	15.12.2017	Kai Kiihtelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Accept.			Railway line: Montevideo - Paso de los Toros		
Owner acc.			Archive Type Number Rev. Sheet Sheet's total		
			- 13 - 20		



- LEGEND**
- INTERLOCKING
  - ⊕ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊕ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊕ MAIN SIGNAL (stop and proceed aspects)
  - ⊕ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊕ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⬢ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊕ POINT LIGHTING
  - ⊕ KEY LOCK
  - ⊕ LOCK
  - ⊕ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊕ BUFFER STOP
  - ⊕ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊕ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊕ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Accepter
Customer	Project		Railway project		
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		Design phase <b>Pre-engineering, Phase 2</b>			
Supplier		<b>VR TRACK</b> Railway Signalling Schematic Layout KM 182+000 - 195+200			
Drawer	15.12.2017	Kai Kiihtelys	Scale		1:10 000
Designer	15.12.2017	Kai Kiihtelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Architect			Railway line		Montevideo - Paso de los Toros
Owner acc.			Archive	Type	Number
					Rev. Sheet Sheet total
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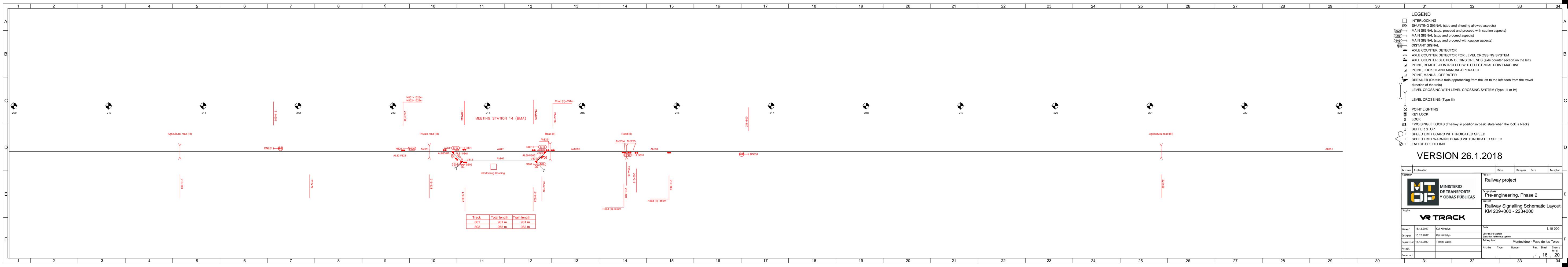
Exceptional arrangements of signals:  
Track vertical slope is 11,4 ‰ downhill at signal N771 and N772 location.

Track	Total length	Train length
771	857 m	827 m
772	855 m	825 m
773	315 m	285 m
774	315 m	285 m

- LEGEND**
- INTERLOCKING
  - ⊙ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊙ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊙ MAIN SIGNAL (stop and proceed aspects)
  - ⊙ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊙ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⊕ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I,II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊙ POINT LIGHTING
  - ⊙ KEY LOCK
  - ⊙ LOCK
  - ⊙ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊙ BUFFER STOP
  - ⊙ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊙ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊙ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Accepter
Customer	Project		Railway project		
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		Design phase: Pre-engineering, Phase 2 Content: Railway Signalling Schematic Layout KM 196+200 - 209+000			
Supplier					
Drawer	15.12.2017	Kai Kihitöly	Scale: 1:10 000		
Designer	15.12.2017	Kai Kihitöly	Coordinate system: Elevation reference system		
Supervisor	15.12.2017	Tommi Latva	Railway line: Montevideo - Paso de los Toros		
Accept.			Archive	Type	Number
Owner acc.					Rev. Sheet Sheets total
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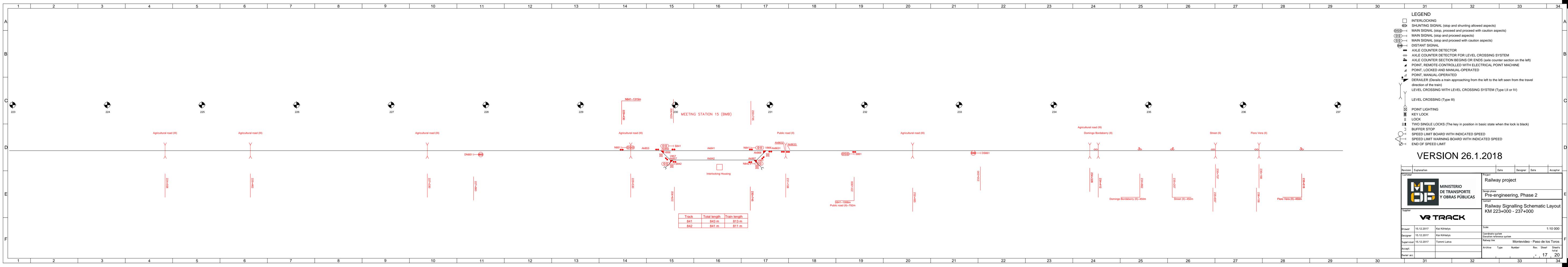


- LEGEND**
- INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⊕ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - ▲ LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - ▲ LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Railway project				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 209+000 - 223+000				
Supplier					
Drawer	15.12.2017	Kai Kiihtelys	Scale: 1:10 000		
Designer	15.12.2017	Kai Kiihtelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Acceptor			Railway line: Montevideo - Paso de los Toros		
Owner acc.			Archive	Type	Number
					Rev. Sheet Sheet total
					- 16 20

Track	Total length	Train length
801	961 m	931 m
802	962 m	932 m

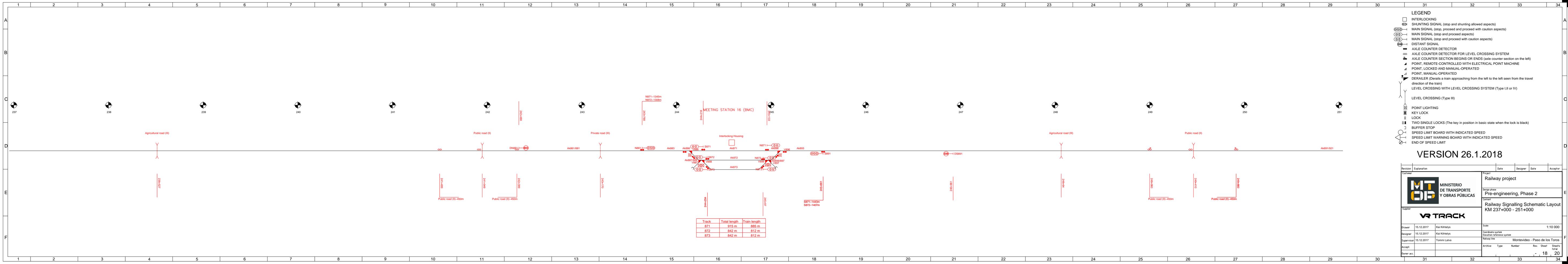


Track	Total length	Train length
841	843 m	813 m
842	841 m	811 m

- LEGEND**
- INTERLOCKING
  - ⊕ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊕ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊕ MAIN SIGNAL (stop and proceed aspects)
  - ⊕ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊕ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊕ POINT LIGHTING
  - ⊕ KEY LOCK
  - ⊕ LOCK
  - ⊕ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊕ BUFFER STOP
  - ⊕ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊕ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊕ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Accepter
Customer	Railway project				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 223+000 - 237+000				
Supplier					
Scale	1:10 000				
Drawer	15.12.2017	Kai Kiihtelys	Coordinate system		
Designer	15.12.2017	Kai Kiihtelys	Elevation reference system		
Supervisor	15.12.2017	Tommi Latva	Railway line		
Accept.			Montevideo - Paso de los Toros		
Owner acc.			Archive	Type	Number
					Rev. Sheet
					Sheet total
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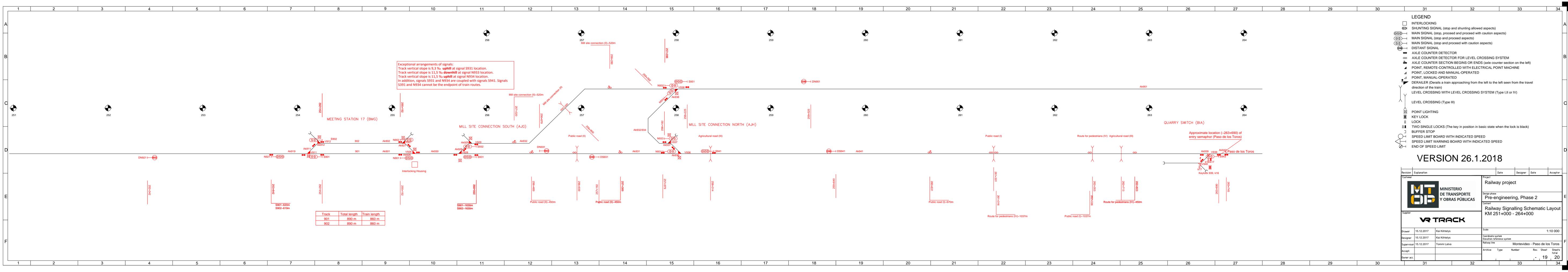


Track	Total length	Train length
871	915 m	885 m
872	842 m	812 m
873	842 m	812 m

- LEGEND**
- ☐ INTERLOCKING
  - ⊙ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊙ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊙ MAIN SIGNAL (stop and proceed aspects)
  - ⊙ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊙ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⚡ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊙ POINT LIGHTING
  - ⊙ KEY LOCK
  - ⊙ LOCK
  - ⊙ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊙ BUFFER STOP
  - ⊙ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊙ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊙ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Accepter
Customer	Railway project				
Project	Railway project				
Design phase	Pre-engineering, Phase 2				
Content	Railway Signalling Schematic Layout KM 237+000 - 251+000				
Supplier					
Scale	1:10 000				
Coordinate system	Montevideo - Paso de los Toros				
Elevation reference system					
Drawer	15.12.2017	Kai Kiihtelys			
Designer	15.12.2017	Kai Kiihtelys			
Supervisor	15.12.2017	Tommi Latva			
Archiv	Type	Number	Rev.	Sheet	Sheet's total
Owner acc.				- 18	20



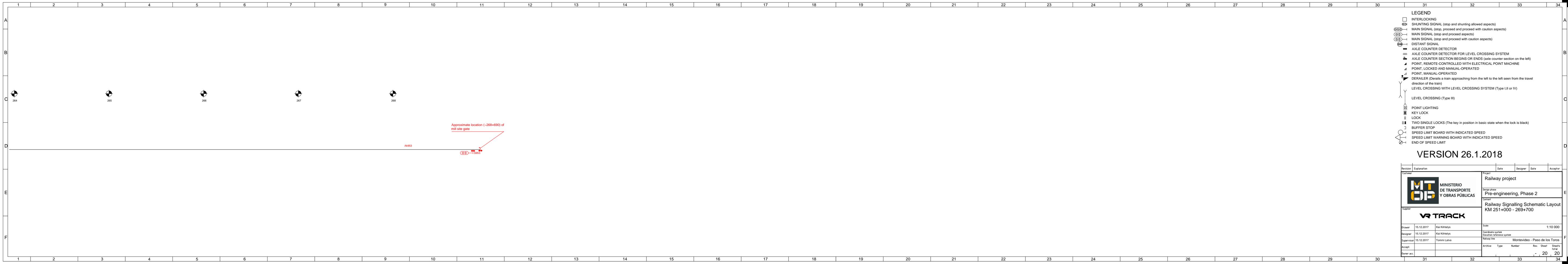
Exceptional arrangements of signals:  
 Track vertical slope is 9,3 ‰ uphill at signal S931 location.  
 Track vertical slope is 11,5 ‰ downhill at signal N933 location.  
 Track vertical slope is 11,5 ‰ uphill at signal N934 location.  
 In addition, signals S931 and N934 are coupled with signals S941. Signals S931 and N934 cannot be the endpoint of train routes.

Track	Total length	Train length
901	890 m	860 m
902	890 m	860 m

- LEGEND**
- INTERLOCKING
  - ⊕ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊕ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊕ MAIN SIGNAL (stop and proceed aspects)
  - ⊕ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊕ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - ⊕ AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊕ POINT LIGHTING
  - ⊕ KEY LOCK
  - ⊕ LOCK
  - ⊕ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊕ BUFFER STOP
  - ⊕ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊕ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊕ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Accepter
Customer	Railway project		Project		
 <b>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</b>		<b>Pre-engineering, Phase 2</b> Design phase Content <b>Railway Signalling Schematic Layout</b> <b>KM 251+000 - 264+000</b>			
		Scale: 1:10 000 Coordinate system: Elevation reference system: Railway line: Montevideo - Paso de los Toros			
Drawer	15.12.2017	Kai Kiihtelys	Scale: 1:10 000		
Designer	15.12.2017	Kai Kiihtelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Accept.			Railway line: Montevideo - Paso de los Toros		
Owner acc.			Archive	Type	Number
					Rev. Sheet Sheets total
					- 19 20



- LEGEND**
- ☐ INTERLOCKING
  - ⊗ SHUNTING SIGNAL (stop and shunting allowed aspects)
  - ⊗ MAIN SIGNAL (stop, proceed and proceed with caution aspects)
  - ⊗ MAIN SIGNAL (stop and proceed aspects)
  - ⊗ MAIN SIGNAL (stop and proceed with caution aspects)
  - ⊗ DISTANT SIGNAL
  - AXLE COUNTER DETECTOR
  - ∞ AXLE COUNTER DETECTOR FOR LEVEL CROSSING SYSTEM
  - AXLE COUNTER SECTION BEGINS OR ENDS (axle counter section on the left)
  - ▲ POINT, REMOTE-CONTROLLED WITH ELECTRICAL POINT MACHINE
  - ▲ POINT, LOCKED AND MANUAL-OPERATED
  - ▲ POINT, MANUAL-OPERATED
  - ▲ DERAILER (Derails a train approaching from the left to the left seen from the travel direction of the train)
  - Y LEVEL CROSSING WITH LEVEL CROSSING SYSTEM (Type I, II or IV)
  - Y LEVEL CROSSING (Type III)
  - ⊗ POINT LIGHTING
  - ⊗ KEY LOCK
  - ⊗ LOCK
  - ⊗ TWO SINGLE LOCKS (The key in position in basic state when the lock is black)
  - ⊗ BUFFER STOP
  - ⊗ SPEED LIMIT BOARD WITH INDICATED SPEED
  - ⊗ SPEED LIMIT WARNING BOARD WITH INDICATED SPEED
  - ⊗ END OF SPEED LIMIT

**VERSION 26.1.2018**

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project		Railway project		
Supplier	Design phase		Pre-engineering, Phase 2		
	Content		Railway Signalling Schematic Layout KM 251+000 - 269+700		
Drawer	15.12.2017	Kai Kiihtelys	Scale		1:10 000
Designer	15.12.2017	Kai Kiihtelys	Coordinate system		
Supervisor	15.12.2017	Tommi Latva	Elevation reference system		
Accept.			Railway line		Montevideo - Paso de los Toros
Owner acc.			Archive	Type	Number
					Rev. Sheet Sheets total
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