← Montevideo

Paso de Los Toros →

KM 62+200
KM 62+300
KM 62+400
KM 62+500
KM 62+600
KM 62+700
KM 62+800
KM 62+900
KM 63+000
KM 63+100
KM 63+200
KM 63+300
KM 63+400
KM 63+500
KM 63+600
KM 63+700

LC114
062+347
Removal (ped)

LC115
062+389
TYPE Ia
Automatic barriers

LC116
063+692
Removal

0 60 120 Meters

Side ditch, left

Side ditch, right

Rv=20000
Rv=5000
Rv=5000
Rv=10000

540.000 ⌒0.0112
260.000 ⌒0.0077
200.000 ⌒-0.0118
160.000 ⌒0.0000
420.000 ⌒0.0075

62+260.000
KT=24.920
62+800.000
KT=30.950
63+160.000
KT=32.950
63+260.000
KT=30.600
63+420.000
KT=30.600

31.67
34.74
48.61
29.38
37.50

SR=445.51
Lk=65.0
1:1300
KR=652.98
R=800.00
D=50
SR=93.51

346.53
389.37
632

63
62 + 1000.000

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LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - LCXXX — Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
  - 123.345= length of straight line (m)
- SPT-sounding, terminated at cobble, boulder, or bedrock contact.
  - y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample
  - y. 2017= year of investigation
  - TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
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- Elevation figures
  - Difference between existing ground and designed track elevation
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  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 62+0200 - 63+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

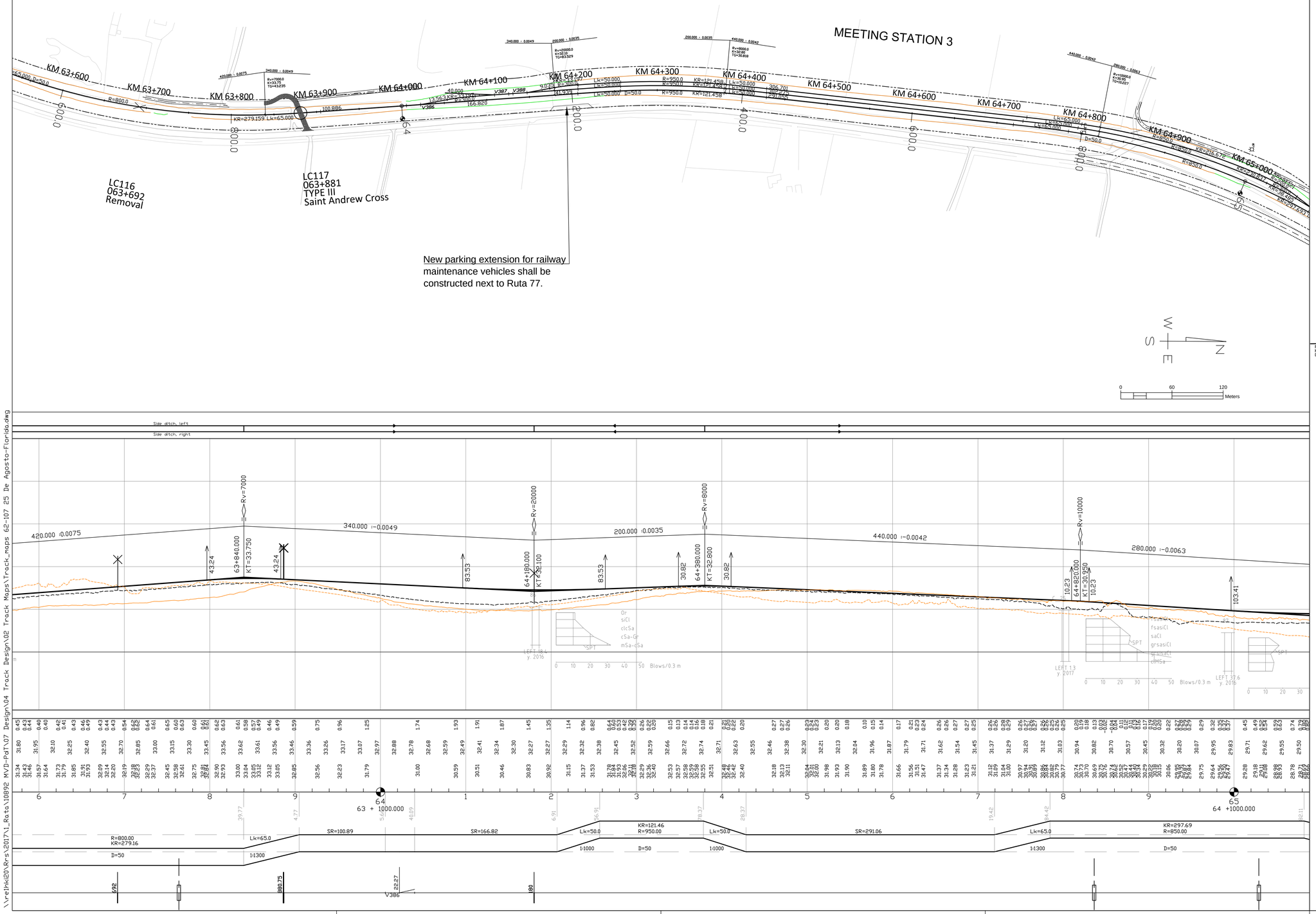
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	45	195

← Montevideo

Paso de Los Toros →



LEGEND, MAP

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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 63+0600 - 65+0000

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	46	195

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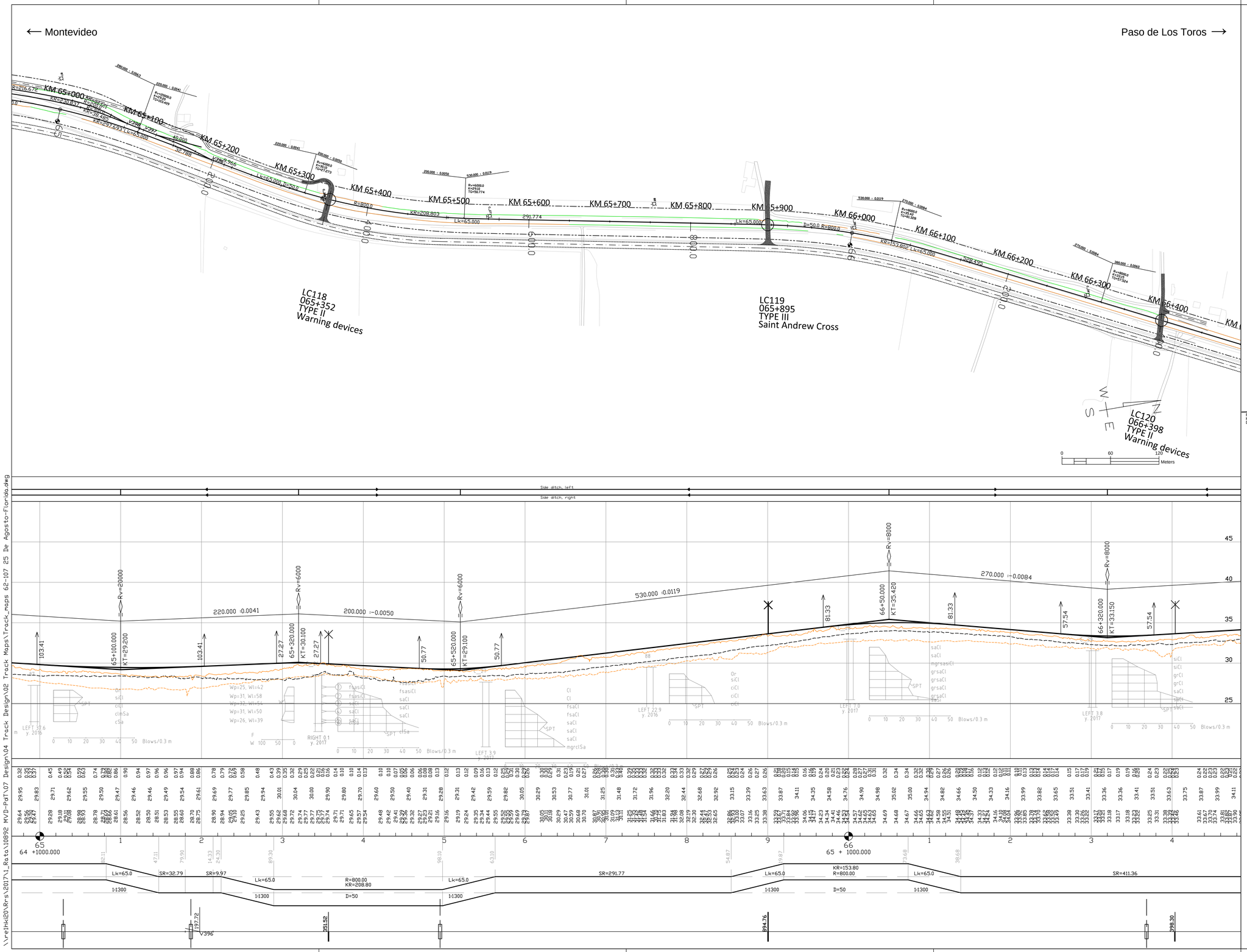

LEGEND, MAP

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- Road closing down
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- BXXX — Railway bridge or underpass, Flyover
- CXXX — Culvert
- Level crossing
- LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
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K= elevation
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Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

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  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic

SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
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Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 65+0000 - 66+0400

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	47	195

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← Montevideo

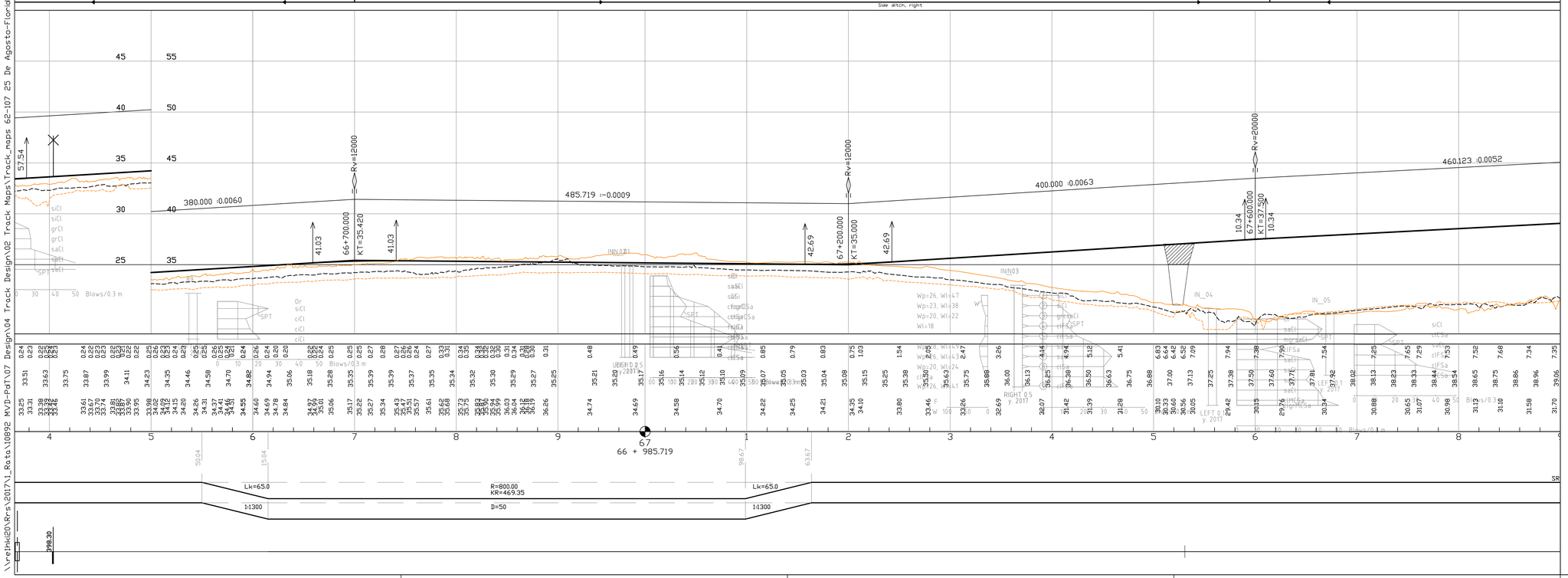
Paso de Los Toros →

B80
067+530
New underpass

KM 66+300
KM 66+400
KM 66+500
KM 66+600
KM 66+700
KM 66+800
KM 66+900
KM 67+000
KM 67+100
KM 67+200
KM 67+300
KM 67+400
KM 67+500
KM 67+600
KM 67+700

LC120
066+398
TYPE II
Warning devices

Side ditch, left
Side ditch, right



LEGEND, MAP

- New railway alignment
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

Level crossing

LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
Rv= radius of vertical curve
K= elevation
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Disturbed Sample
y. 2017= year of investigation
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LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 66+0400 - 67+0800

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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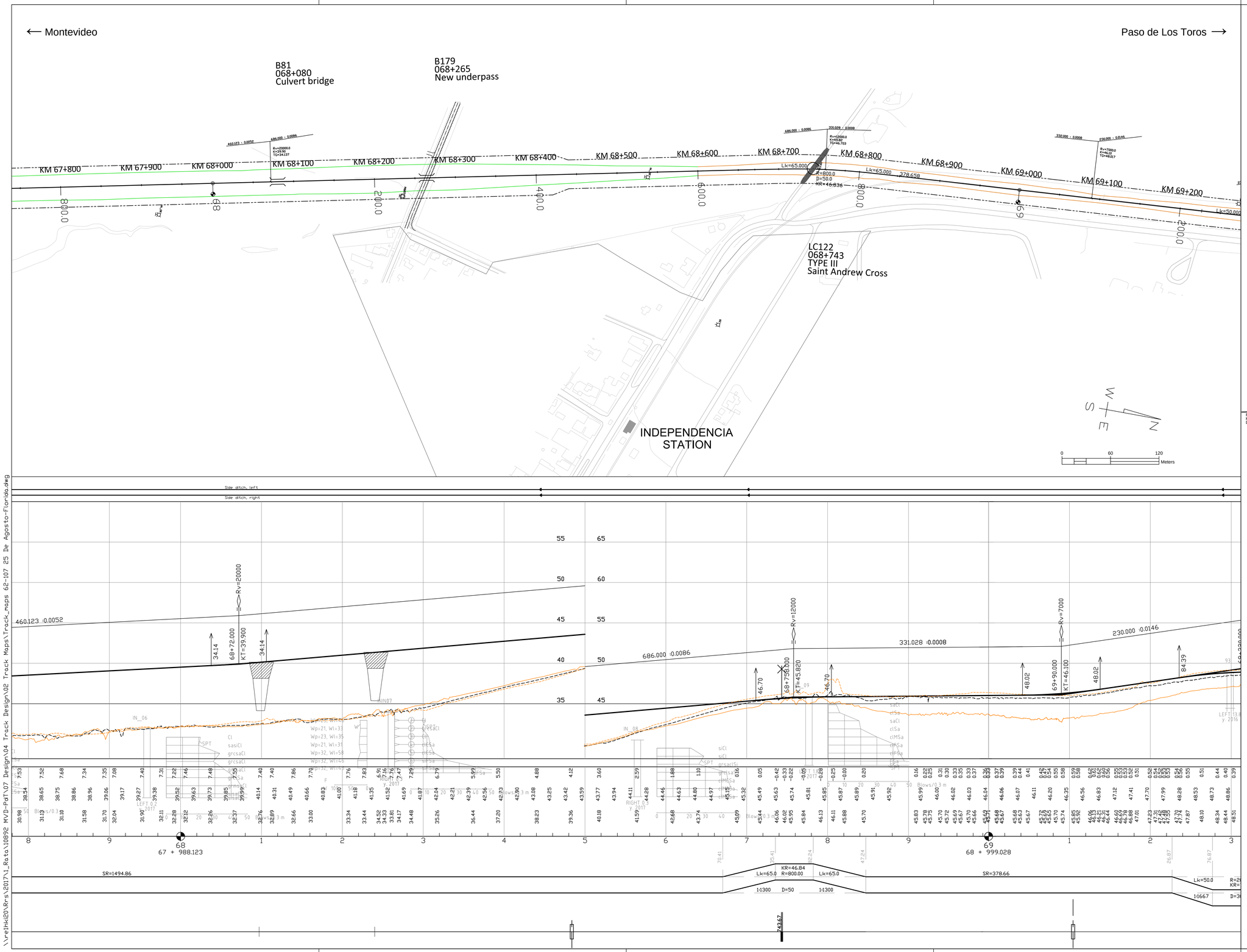

LEGEND, MAP

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- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

LCXXX — Level crossing

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
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Disturbed Sample
y. 2017= year of investigation
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LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 67+0800 - 69+0200

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	49	195

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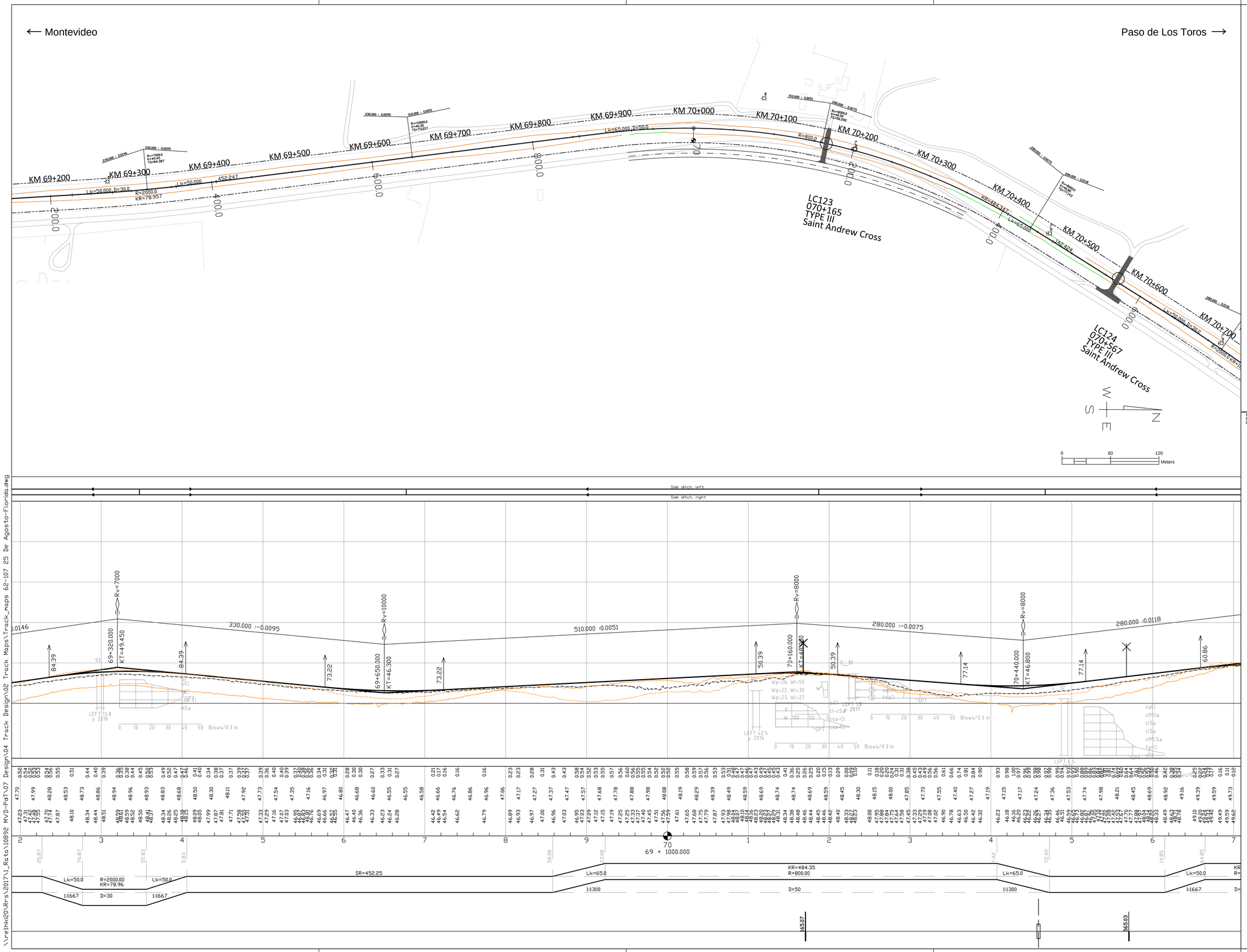

LEGEND, MAP

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- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

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Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
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SPT-sounding, terminated at cobble, boulder, or bedrock contact.
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1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

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Level crossing

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Elevation figures

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Km stationing

Horizontal alignment, schematic
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 69+0200 - 70+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	50	195

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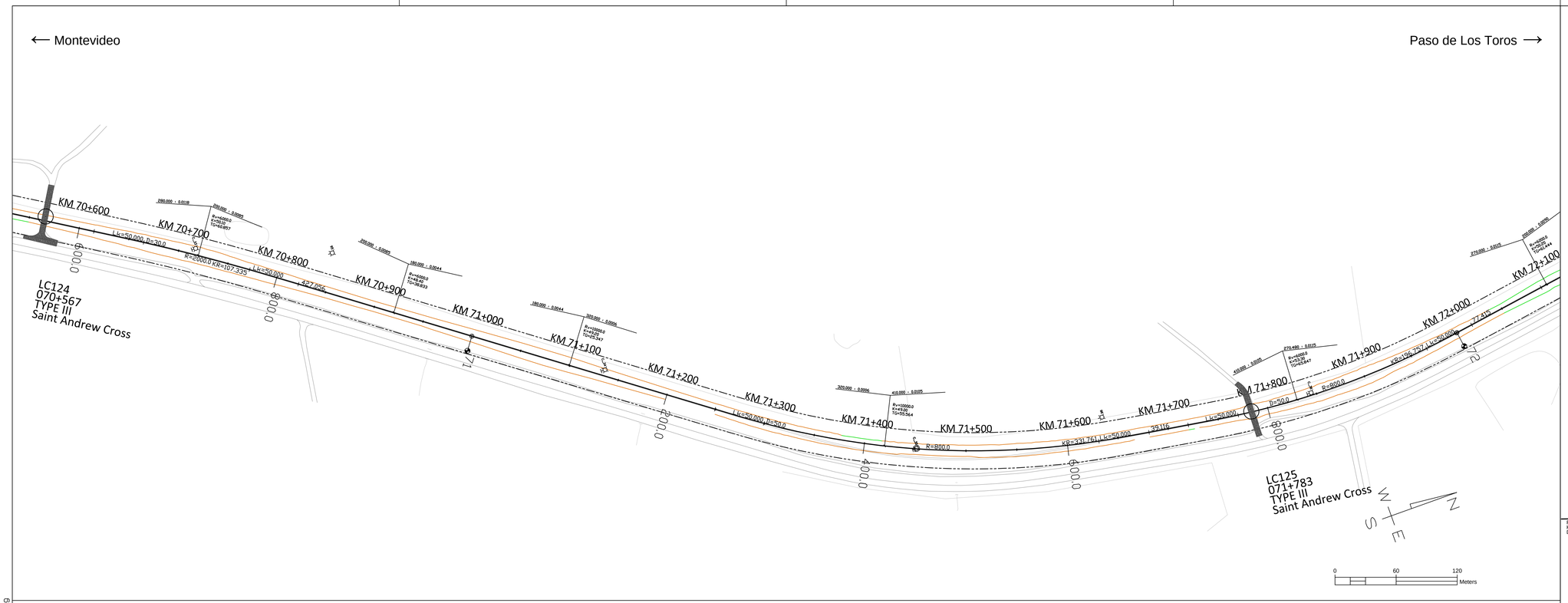

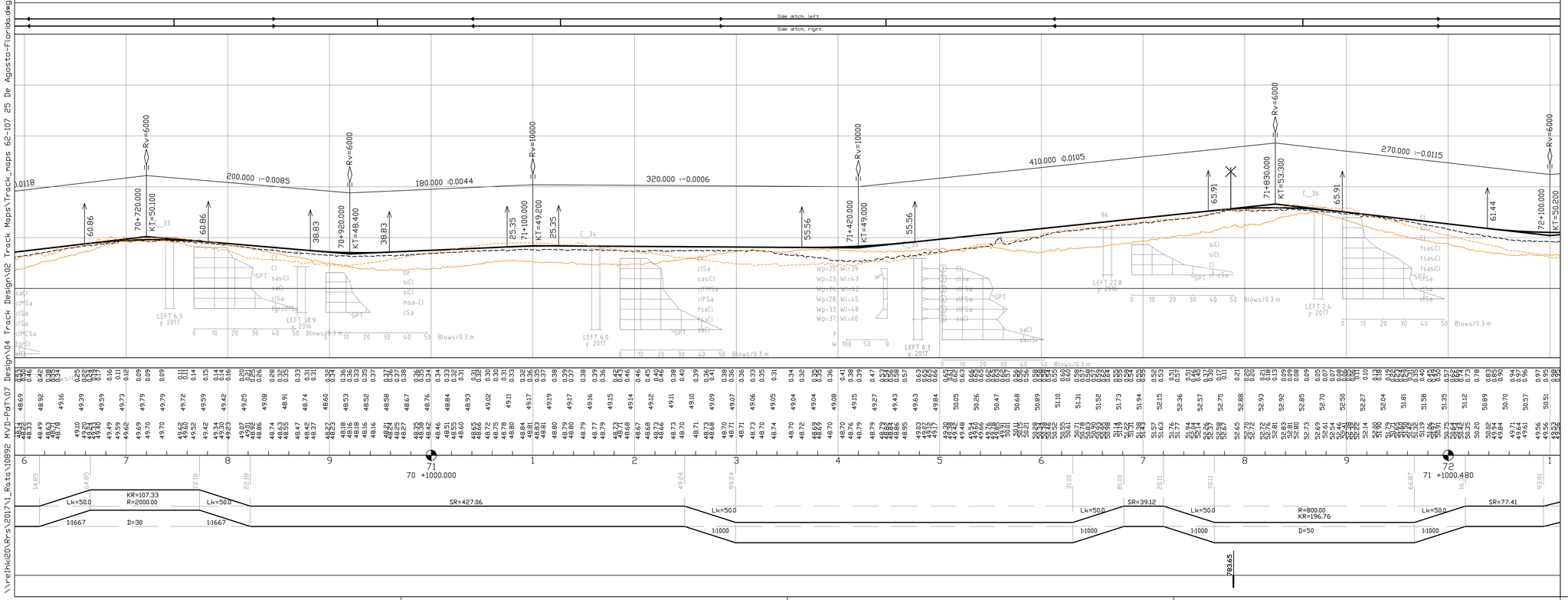

LEGEND, MAP

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LEGEND, PROFILE

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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 70+0600 - 72+0000

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	51	195

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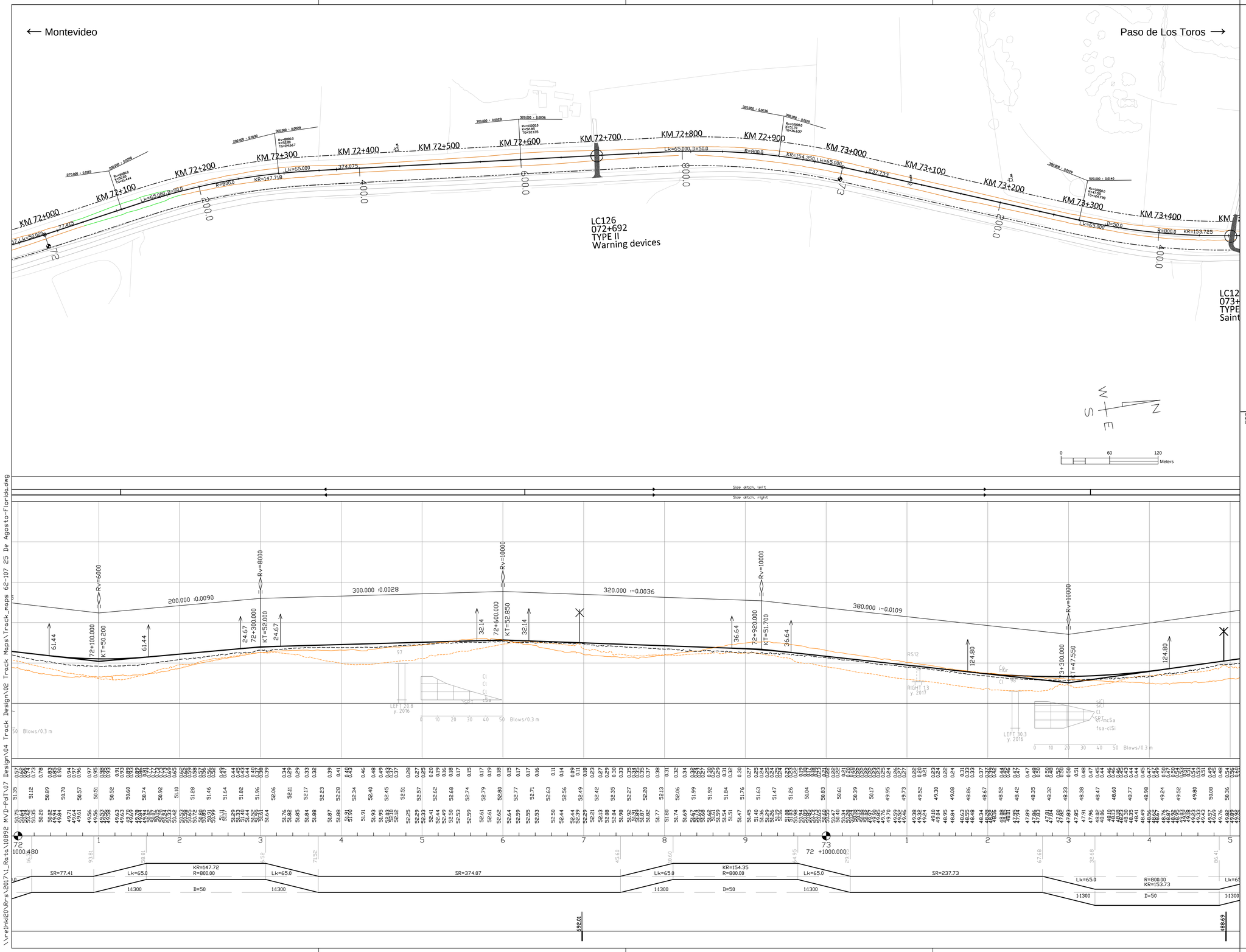

LEGEND, MAP

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- New passenger platforms
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- Level crossing
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Track alignment with design geometry figures

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LEGEND, PROFILE

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- Horizontal alignment, schematic

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Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 72+0000 - 73+0400

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	52	195

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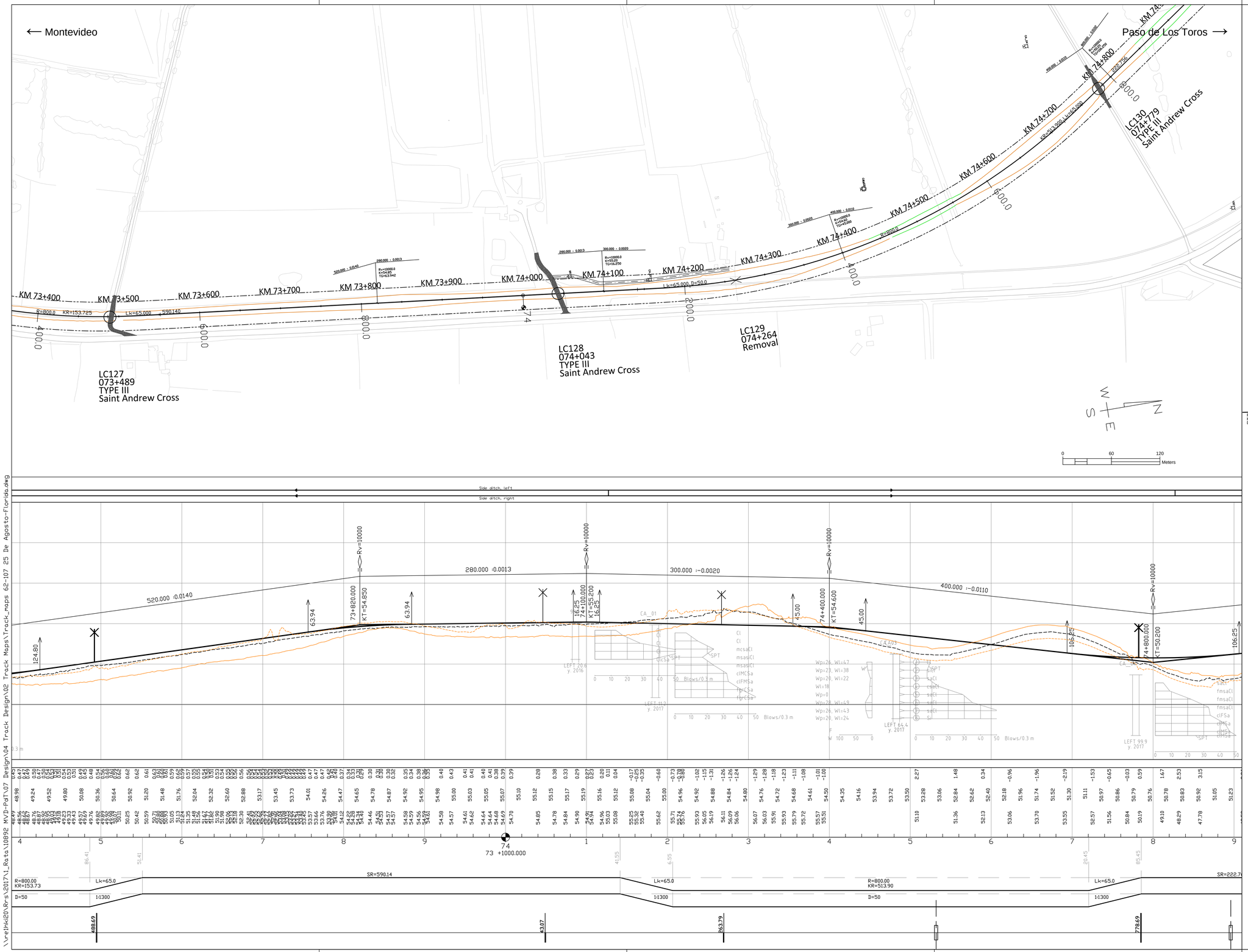

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - LCXXX — Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
  - 123.345= length of straight line (m)
- SPT-sounding, terminated at cobble, boulder, or bedrock contact.
  - y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample
  - y. 2017= year of investigation
  - TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 73+0400 - 74+0800

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	53	195

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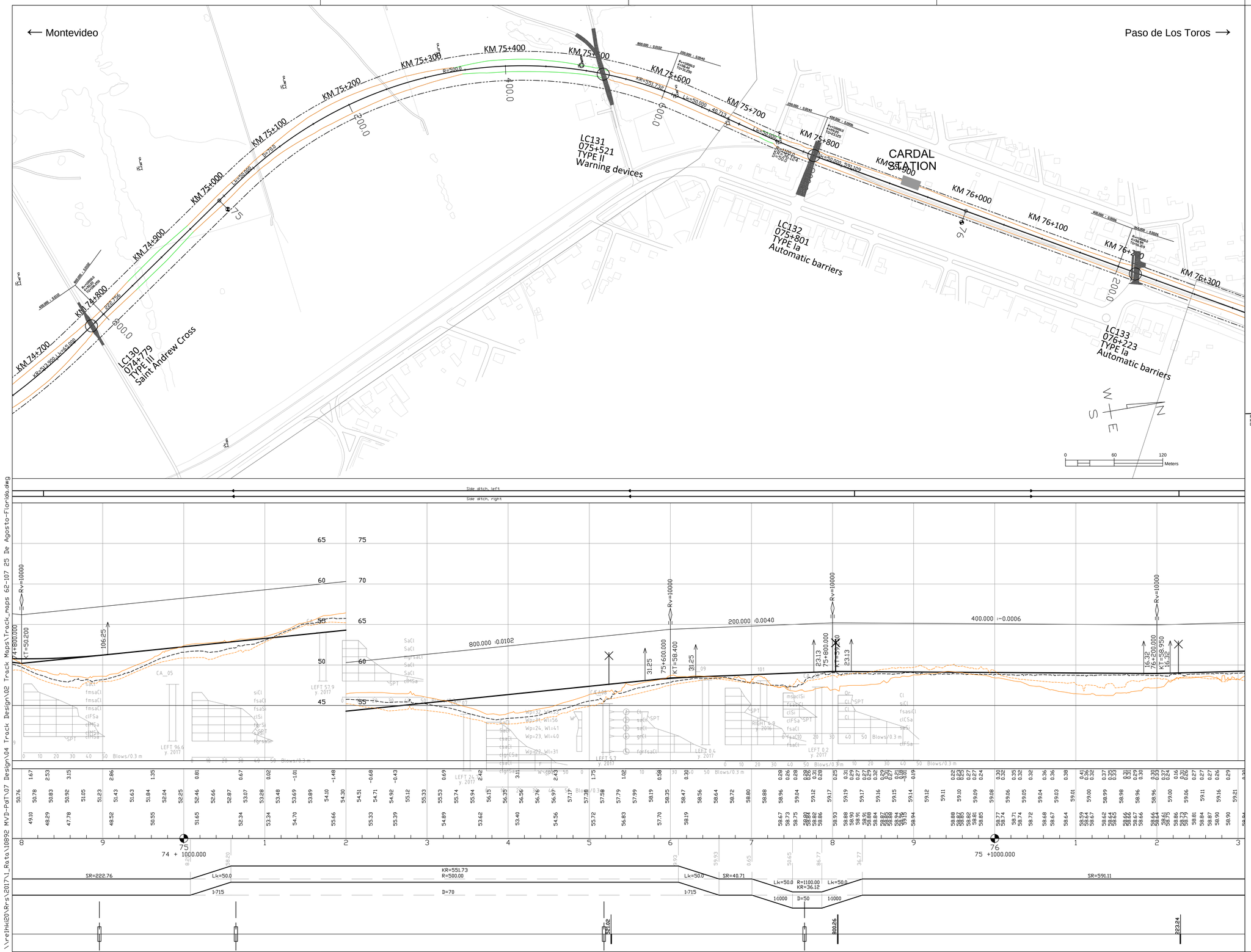

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - LCXXX — Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
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  - TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
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- Elevation figures
  - Difference between existing ground and designed track elevation
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- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
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  - D= track cant (mm)
  - Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 74+0800 - 76+0200

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	54	195

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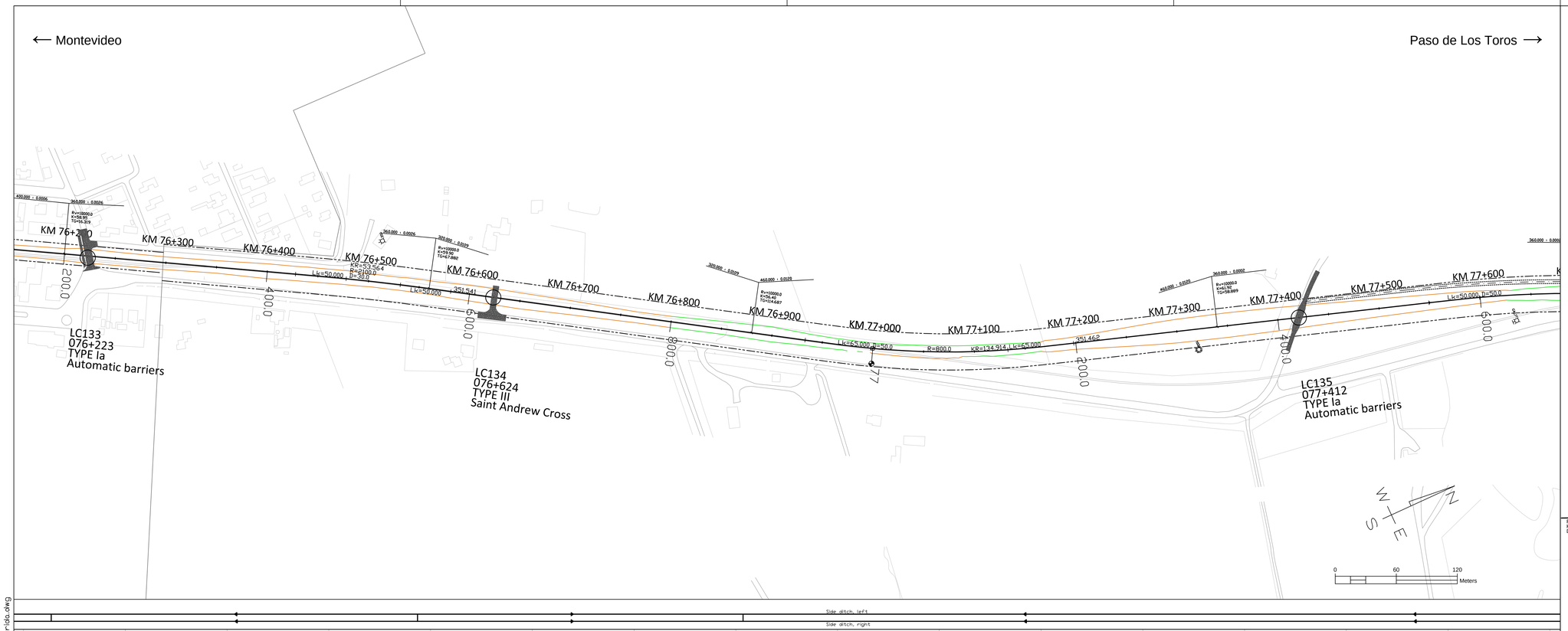

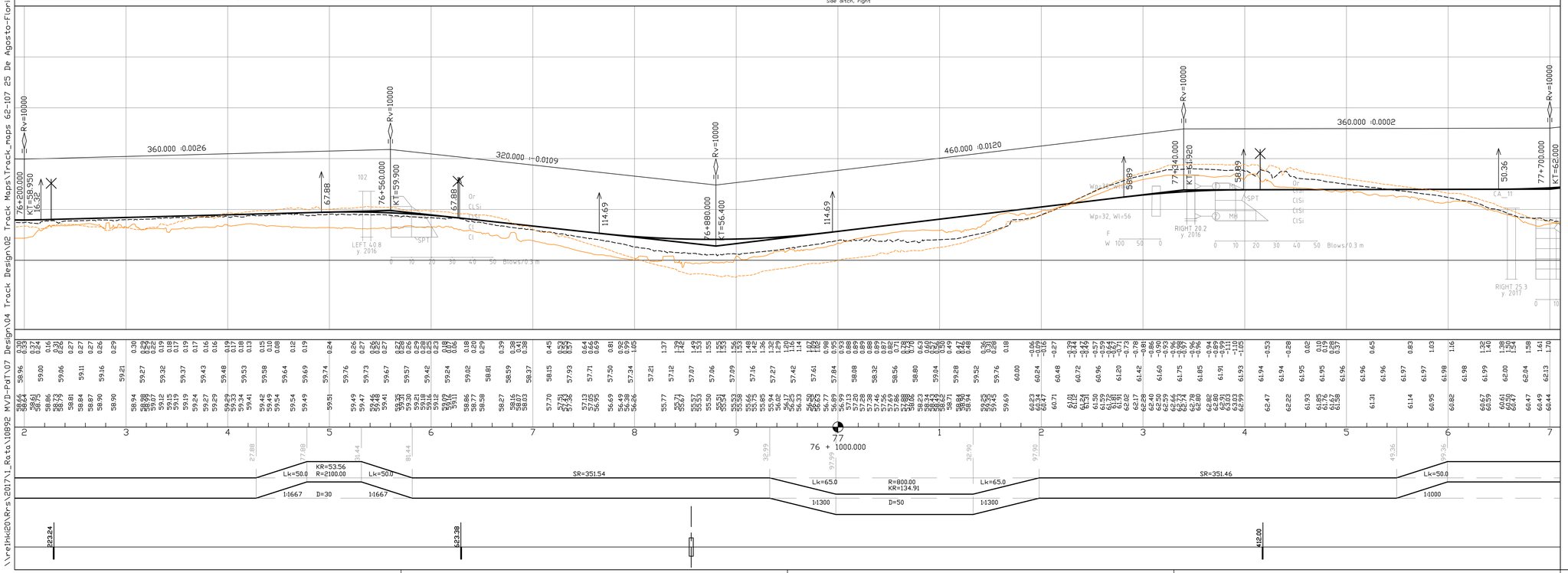

LEGEND, MAP

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- Existing railway alignment (not in the Railway Project scope)
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - LCXXX — Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
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  - Rv= radius of vertical curve
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  - y. 2017= year of investigation
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LEGEND, PROFILE

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  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 76+0200 - 77+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	55	195

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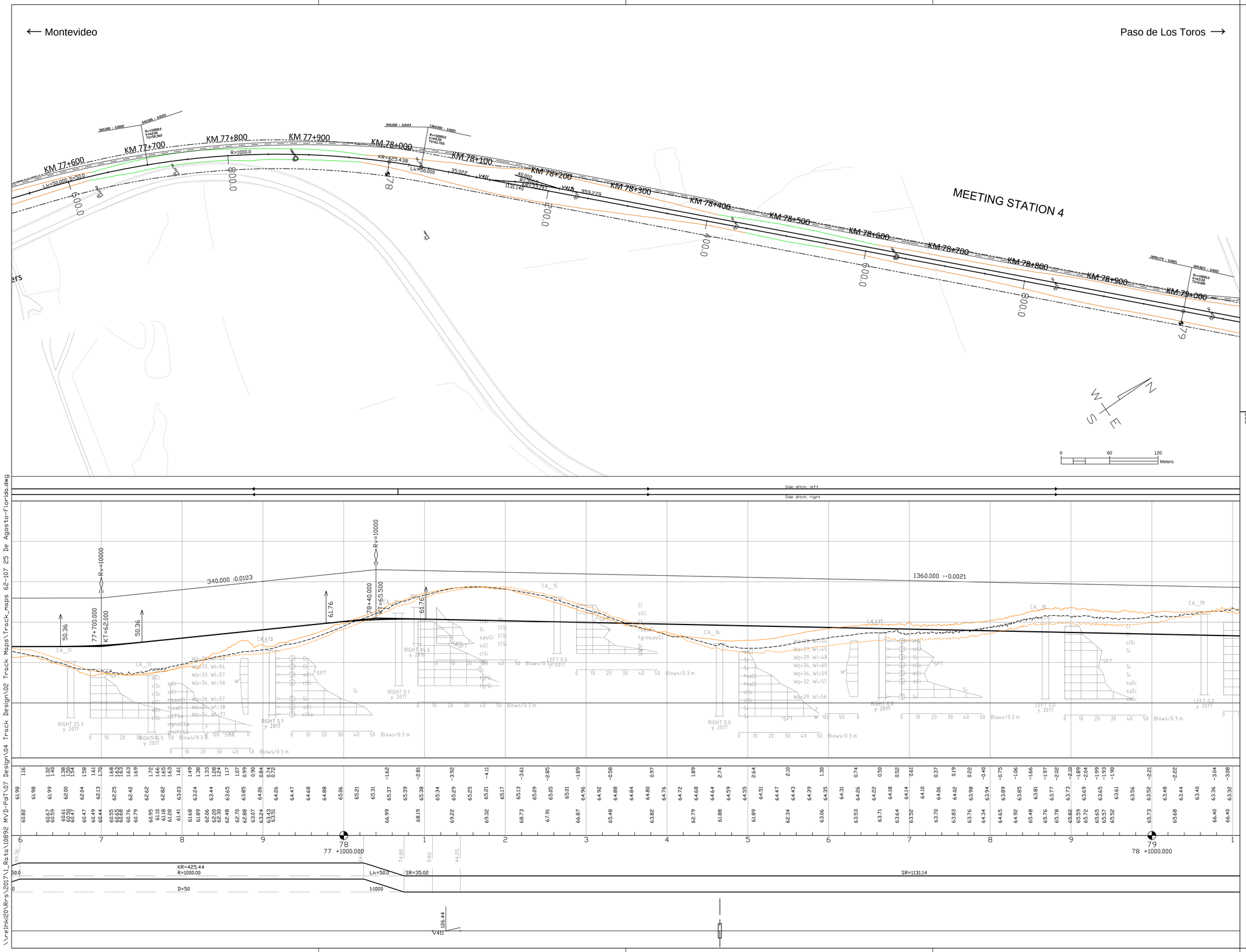

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

Level crossing

LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
Rv= radius of vertical curve
K= elevation
TG= lenght of tangent
123.345= length of straight line (m)

y. 2016 1 — y. 2016 217

SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

y. 2017 TR02

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

1
0 +1000.000

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 77+0600 - 79+0000

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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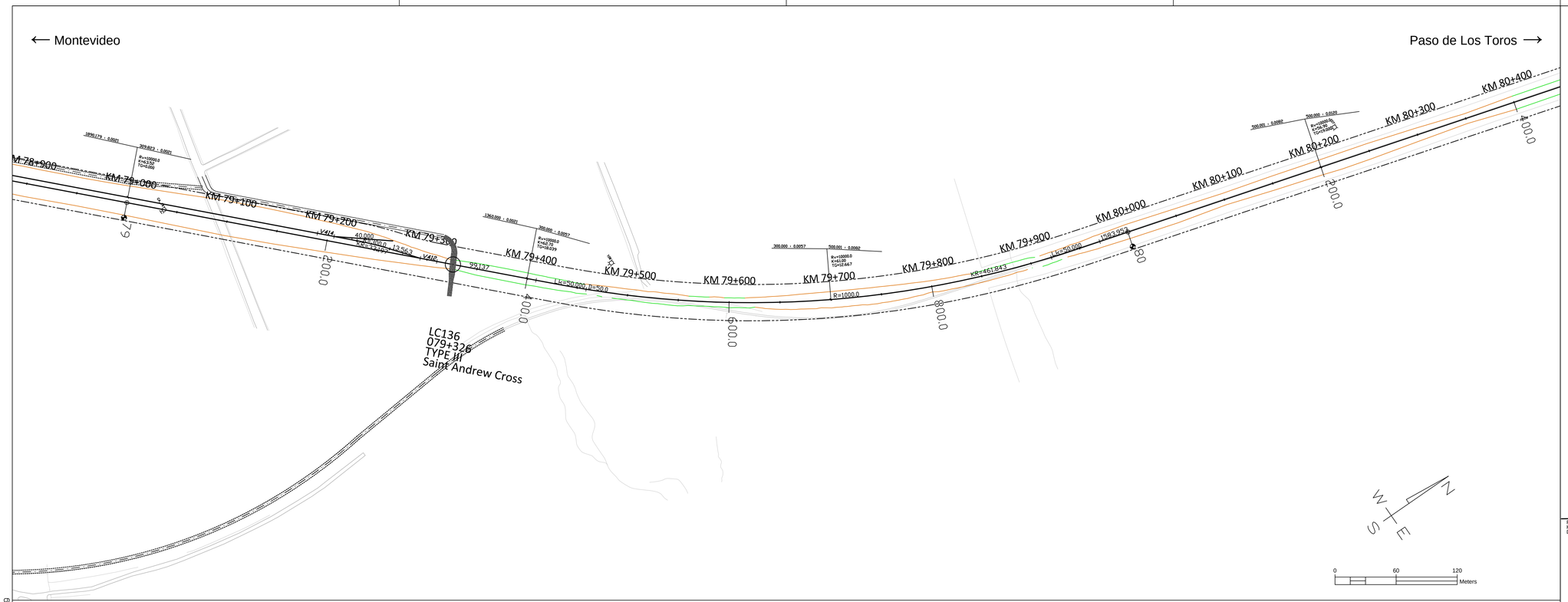

LEGEND, MAP

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- Existing railway alignment (not in the Railway Project scope)
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

Level crossing

LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
Rv= radius of vertical curve
K= elevation
TG= lenght of tangent
123.345= length of straight line (m)

SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 79+0000 - 80+0400

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	57	195

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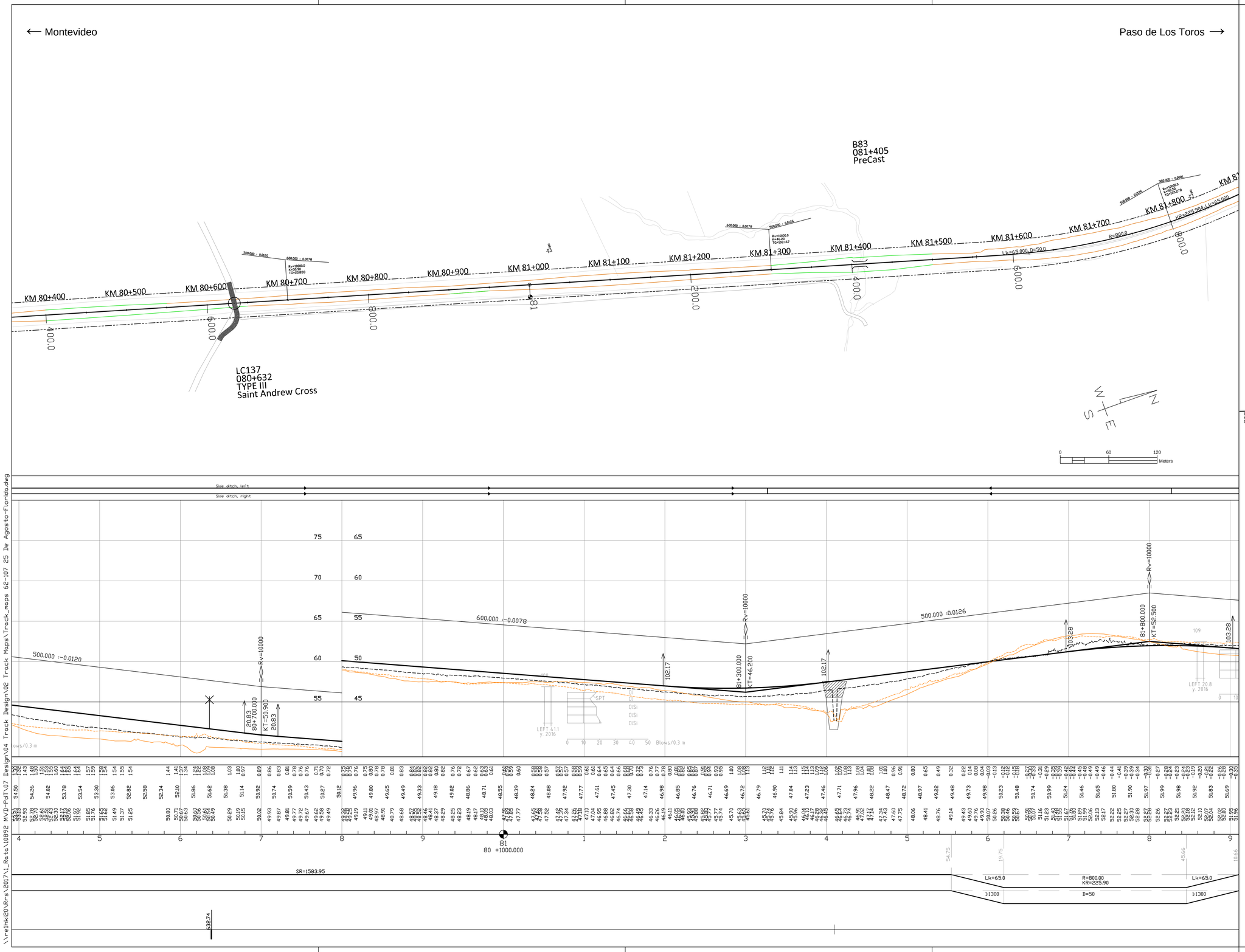

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Road closing down
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- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
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- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
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  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
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- SPT-sounding, terminated at cobble, boulder, or bedrock contact.
  - y. 2016= year of investigation, location of 2016 soundings not accurate
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- Disturbed Sample
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LEGEND, PROFILE

- Vertical railway alignment
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  - Difference between existing ground and designed track elevation
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  - SR= length of straight line (m)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 80+0400 - 81+0800

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	58	195

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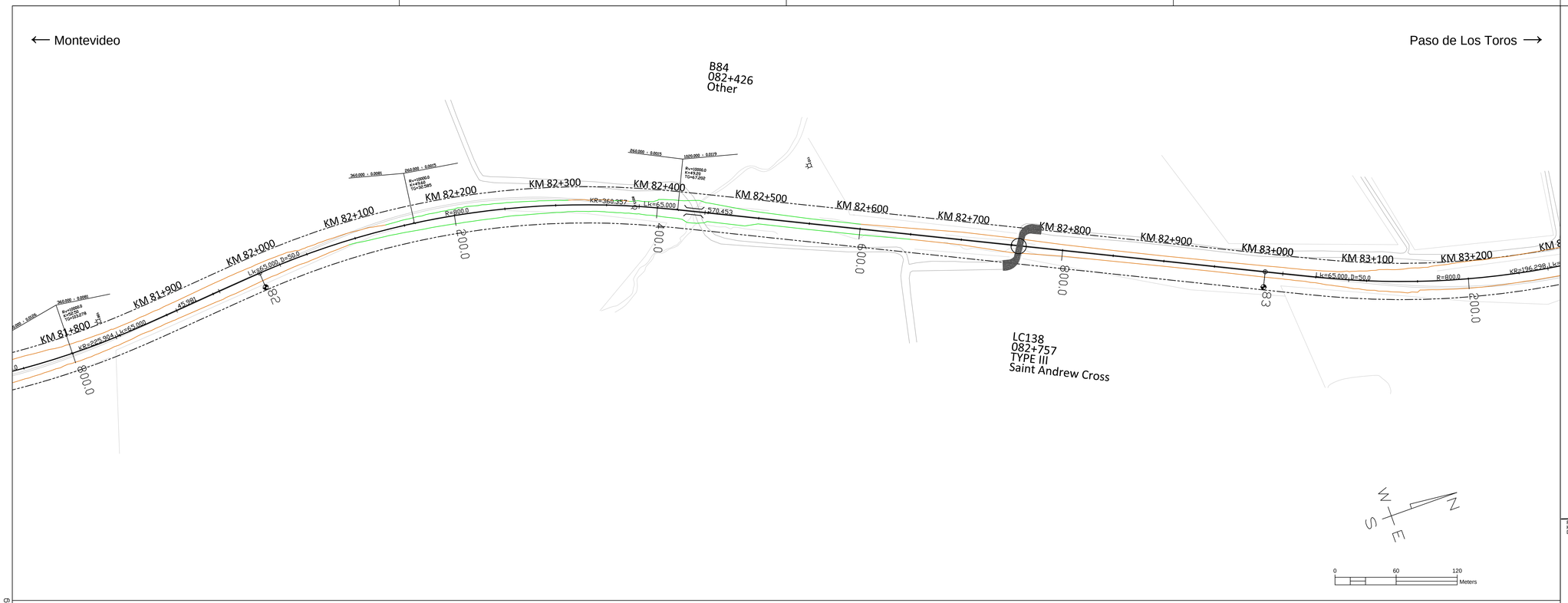

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Road closing down
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - Level crossing
  - LCXXX
- Track alignment with design geometry figures
  - R= curve radius (m)
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LEGEND, PROFILE

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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 81+0800 - 83+0200

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
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Scale: map 1:2000, profile 1:2000 / 1:200

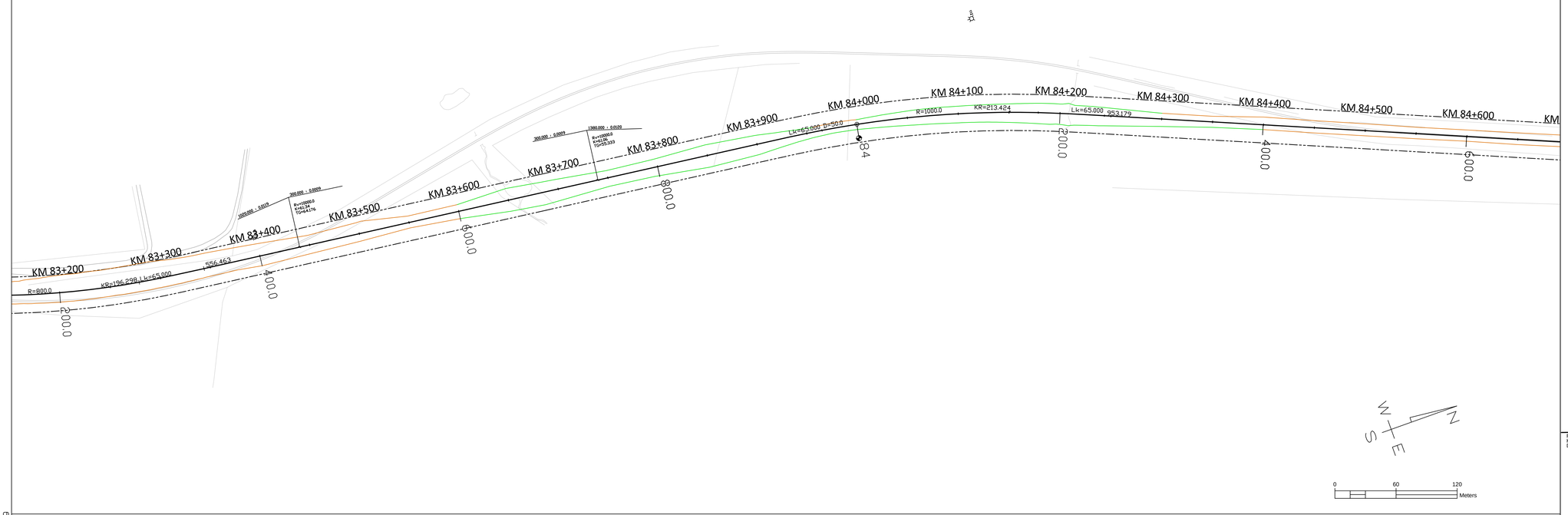
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

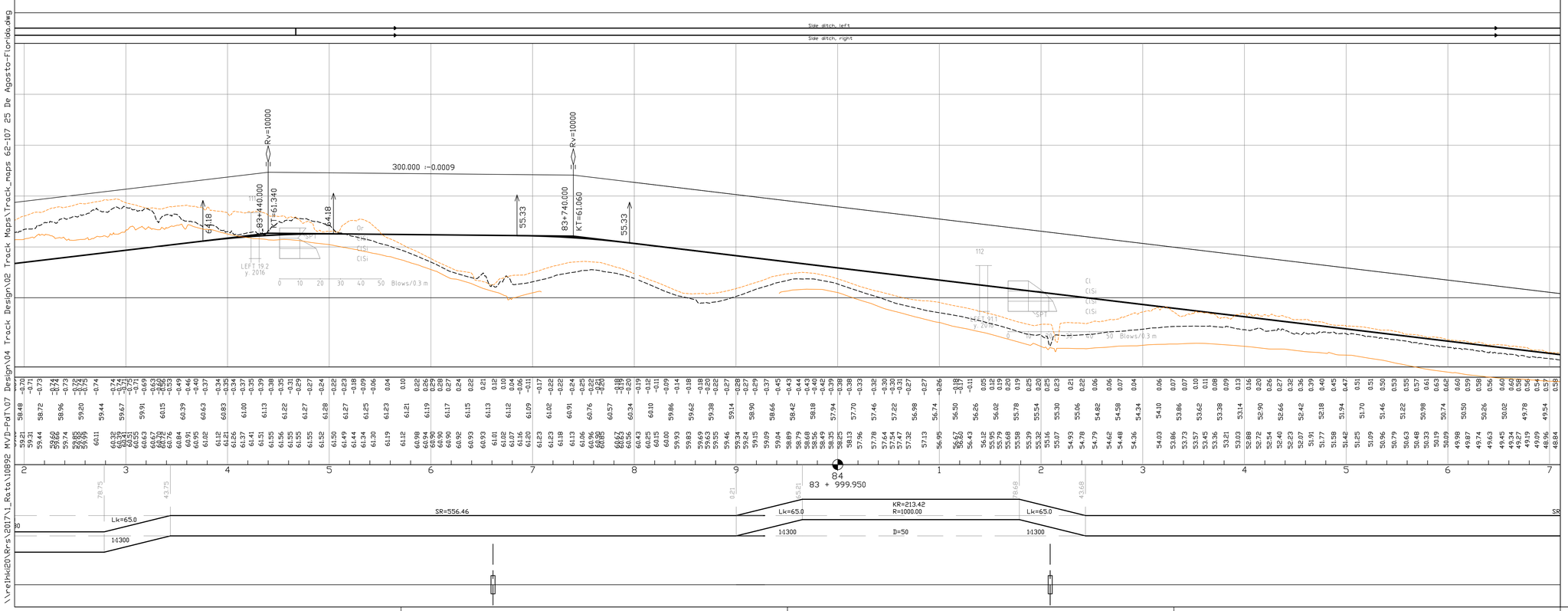
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	59	195

← Montevideo

Paso de Los Toros →





LEGEND, MAP

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- New passenger platforms

Symbols

BXXX BXXX
Railway bridge or underpass, Flyover

CXXX
Culvert

Level crossing

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Track alignment with design geometry figures

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LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

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Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
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D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 83+0200 - 84+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system: WGS 84 UTM 21 S, Local orthometric height
Elevation reference system

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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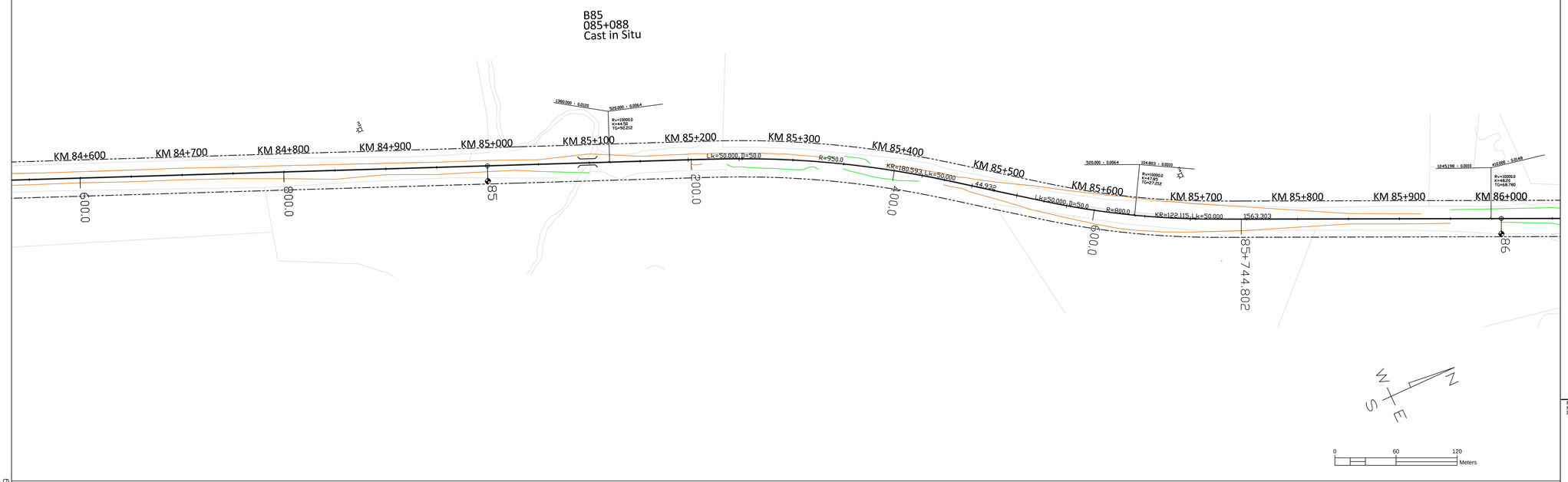
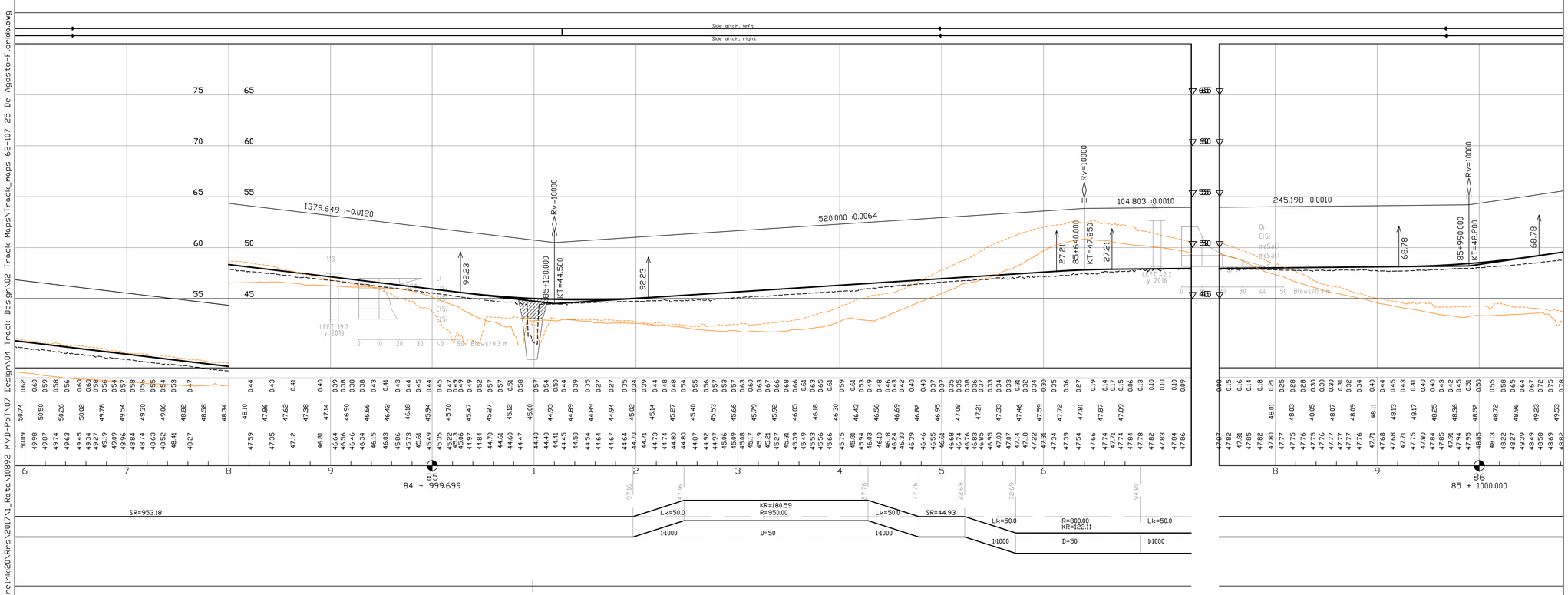
← Montevideo

Paso de Los Toros →





LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed
  (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - Level crossing
  - LCXXX
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
  - 123.345= length of straight line (m)
- SPT-sounding, terminated at cobble, boulder, or bedrock contact.
  - y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample
  - y. 2017= year of investigation
  - TR02= point number

LEGEND, PROFILE

- Vertical railway alignment
  (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 84+0600 - 86+0000

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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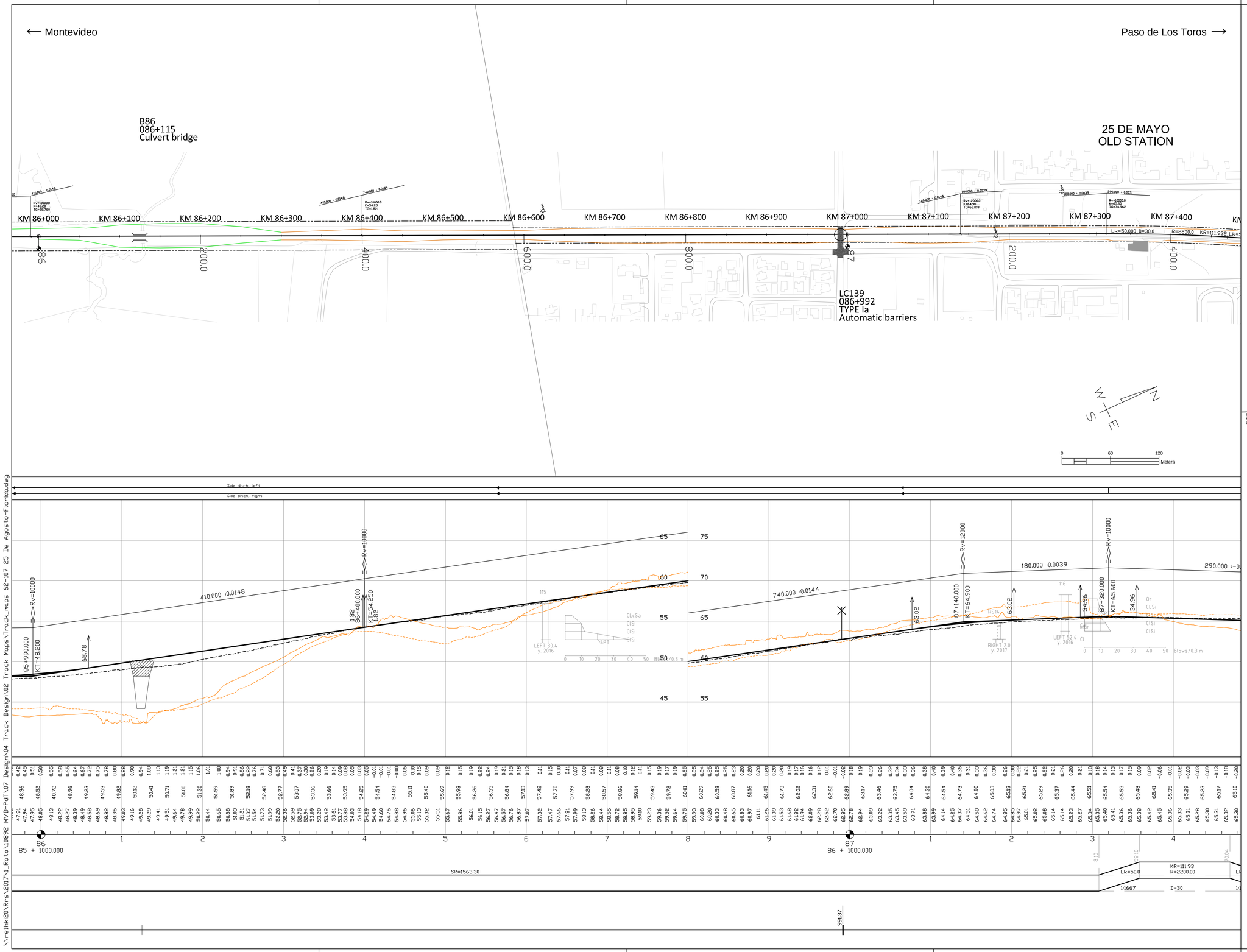

LEGEND, MAP

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- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - Level crossing
  - LCXXX
- Track alignment with design geometry figures
  - R= curve radius (m)
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  - y. 2017= year of investigation
  - TR02= point number

LEGEND, PROFILE

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  - SR= length of straight line (m)
  - R= curve radius (m)
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  - D= track cant (mm)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 86+0000 - 87+0400

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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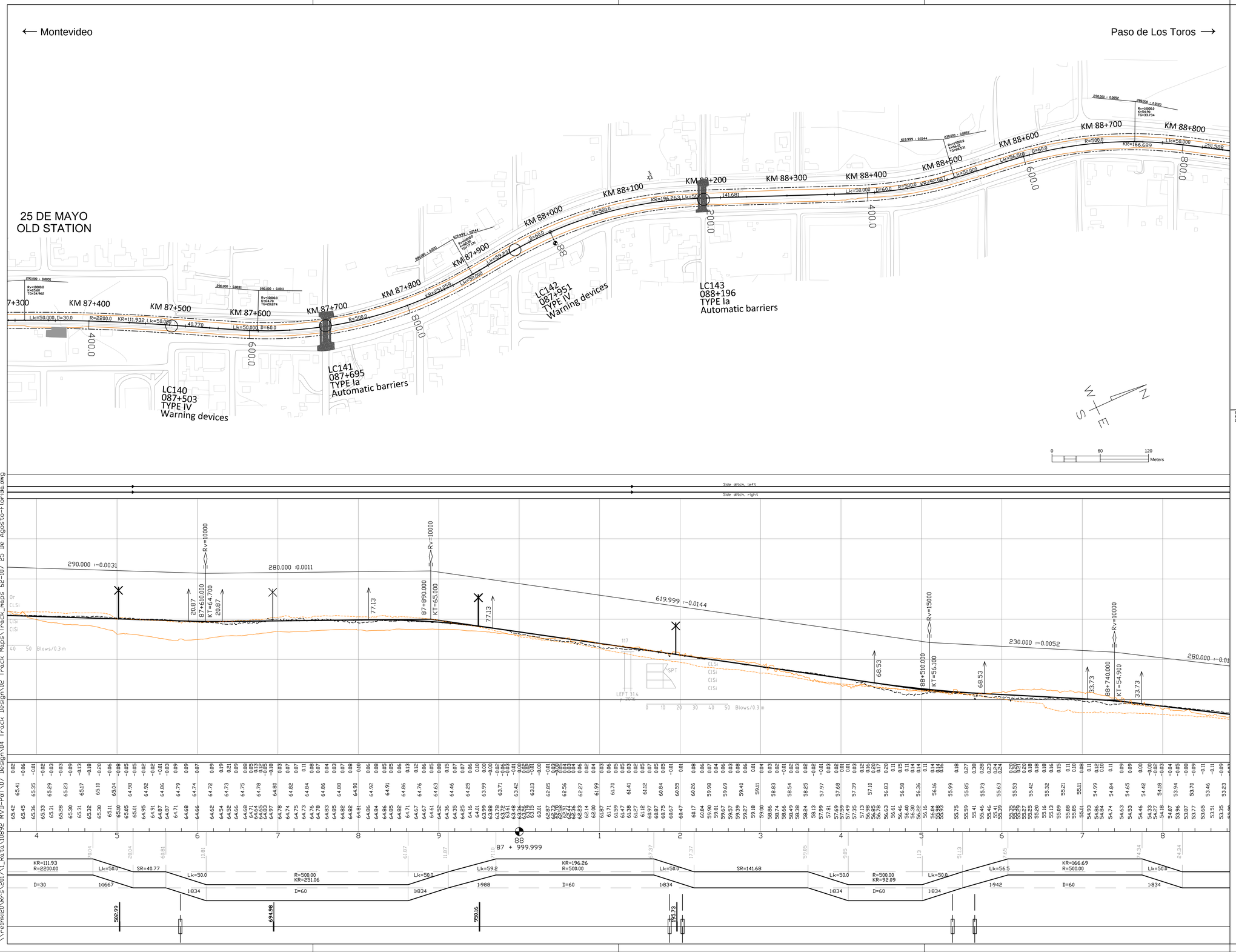

LEGEND, MAP

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- Road closing down
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- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

Level crossing

LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
Rv= radius of vertical curve
K= elevation
TG= lenght of tangent
123.345= length of straight line (m)

SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

0 +1000.000

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 87+0400 - 88+0800

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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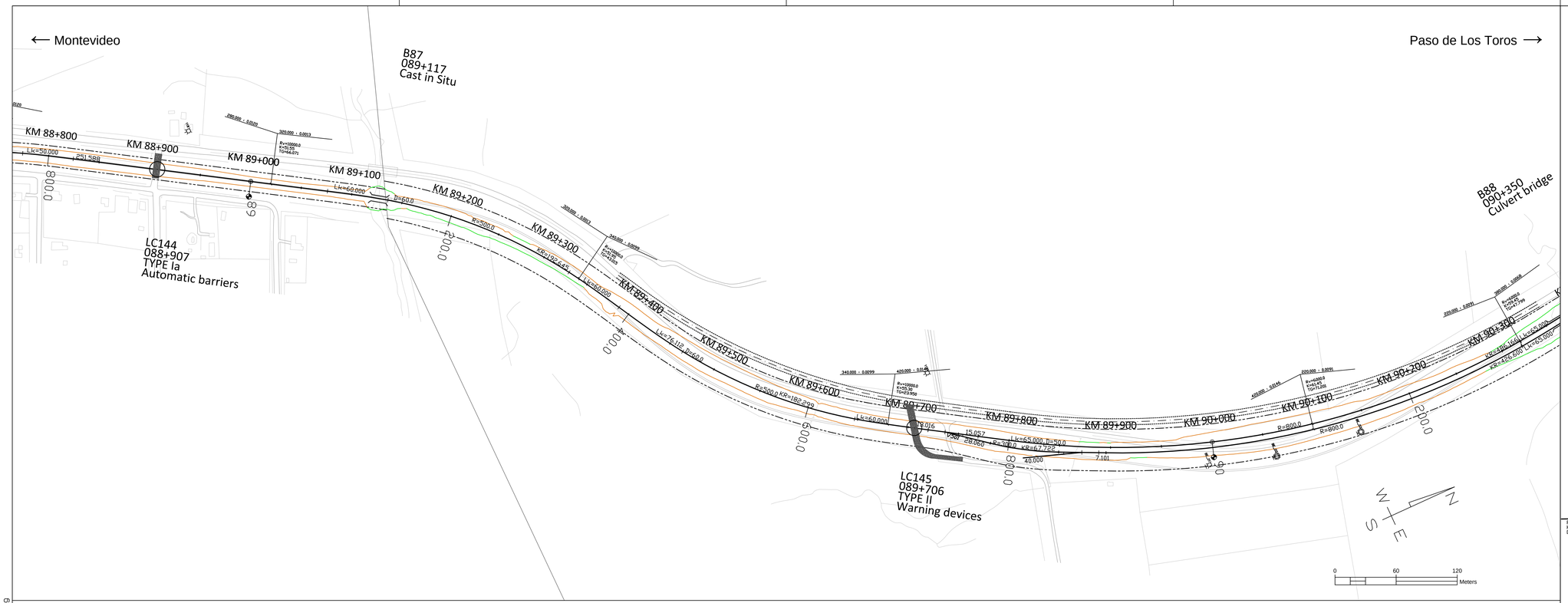

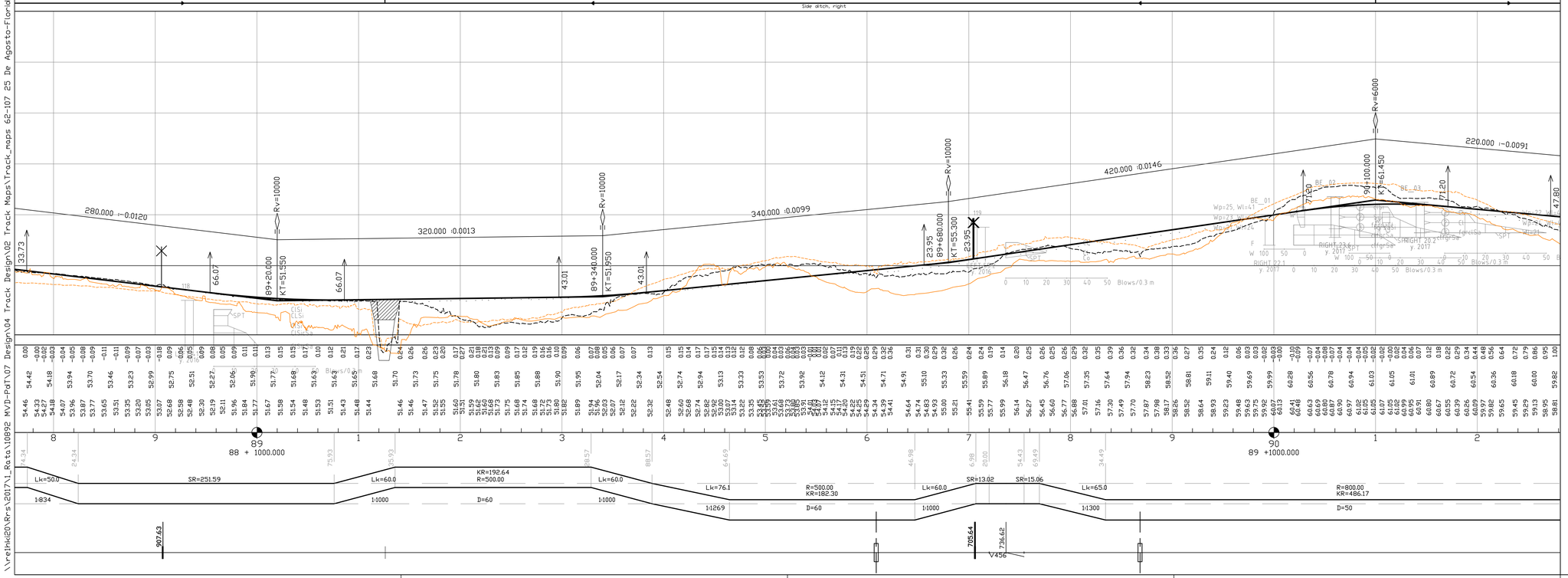

LEGEND, MAP

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- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

LCXXX — Level crossing

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
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Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 88+0800 - 90+0200

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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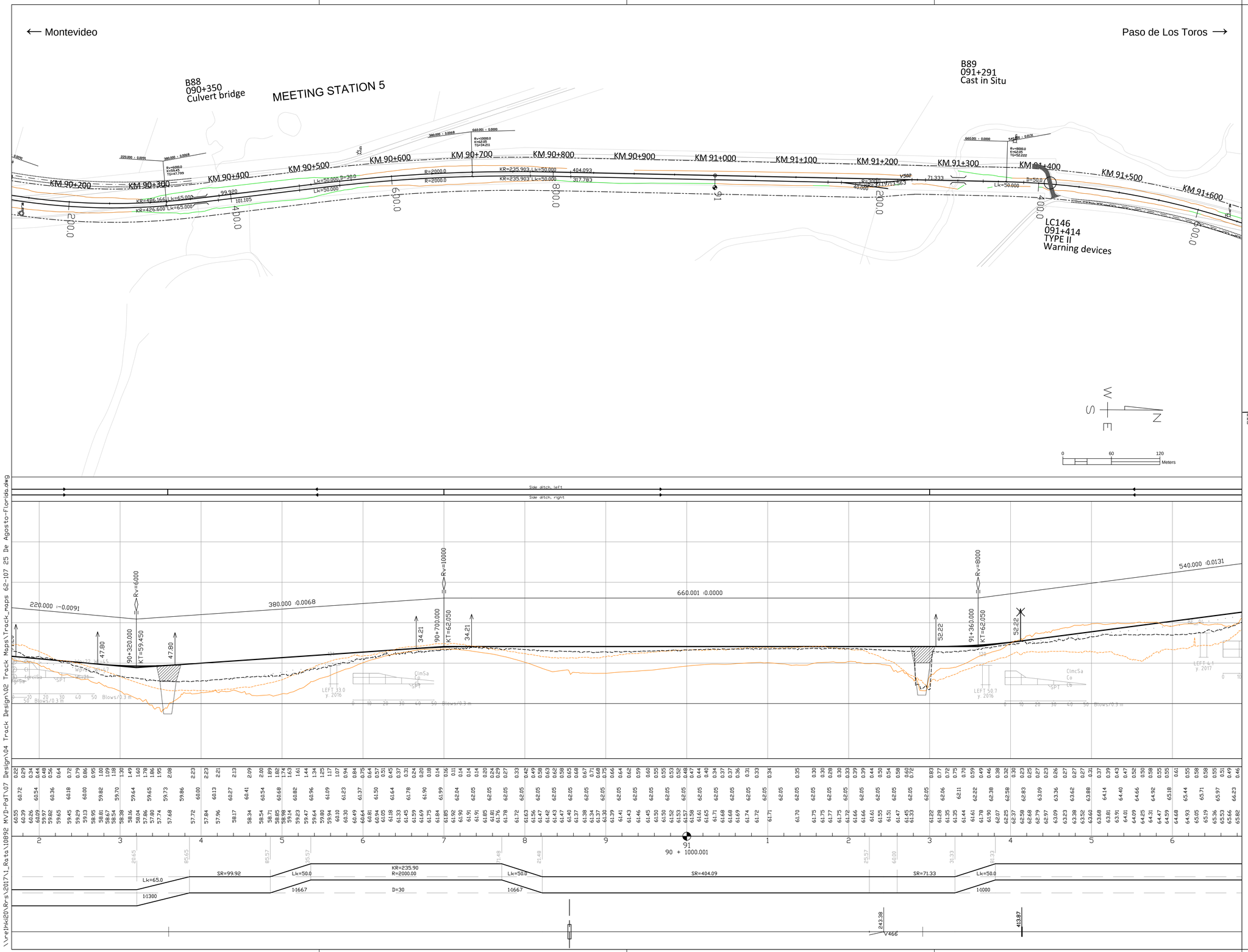

LEGEND, MAP

- New railway alignment
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- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

Level crossing

LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
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Lk= length of transition curve (m)
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K= elevation
TG= lenght of tangent
123.345= length of straight line (m)

y. 2016 1 — y. 2016 217 — SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

y. 2017 TR02 — Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

0 +1000.000

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 90+0200 - 91+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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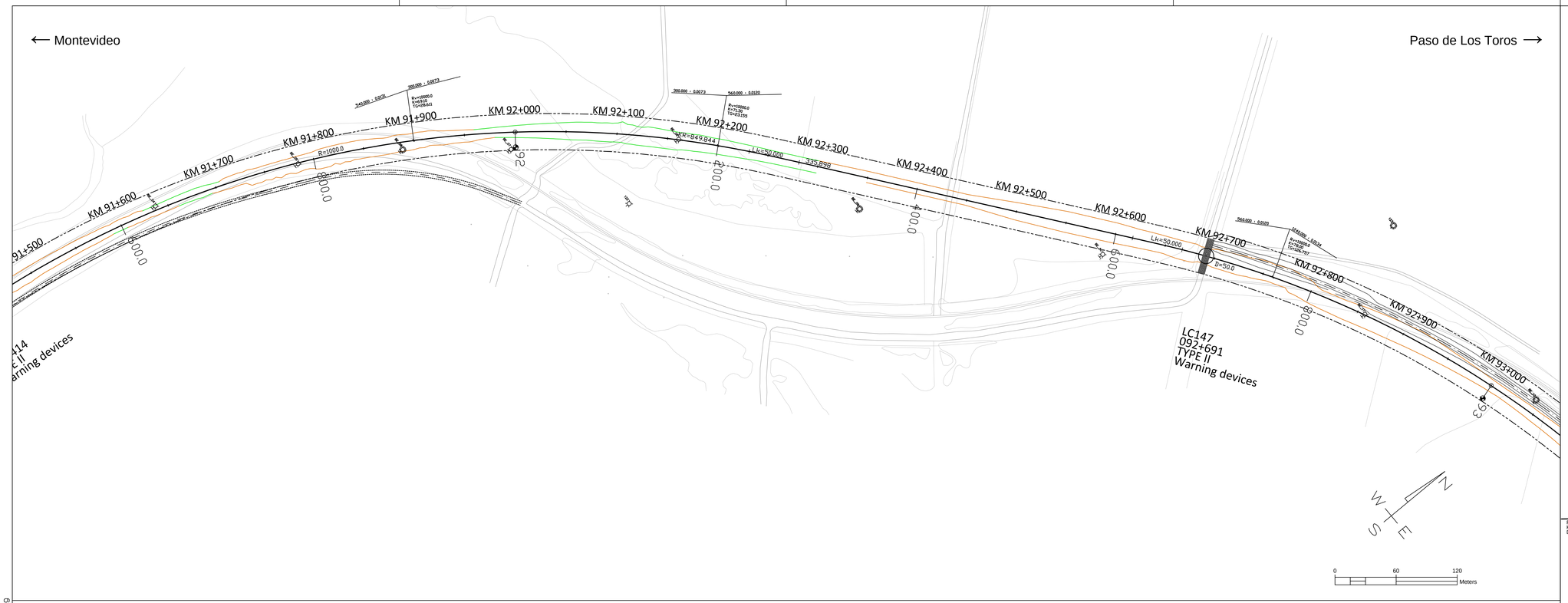

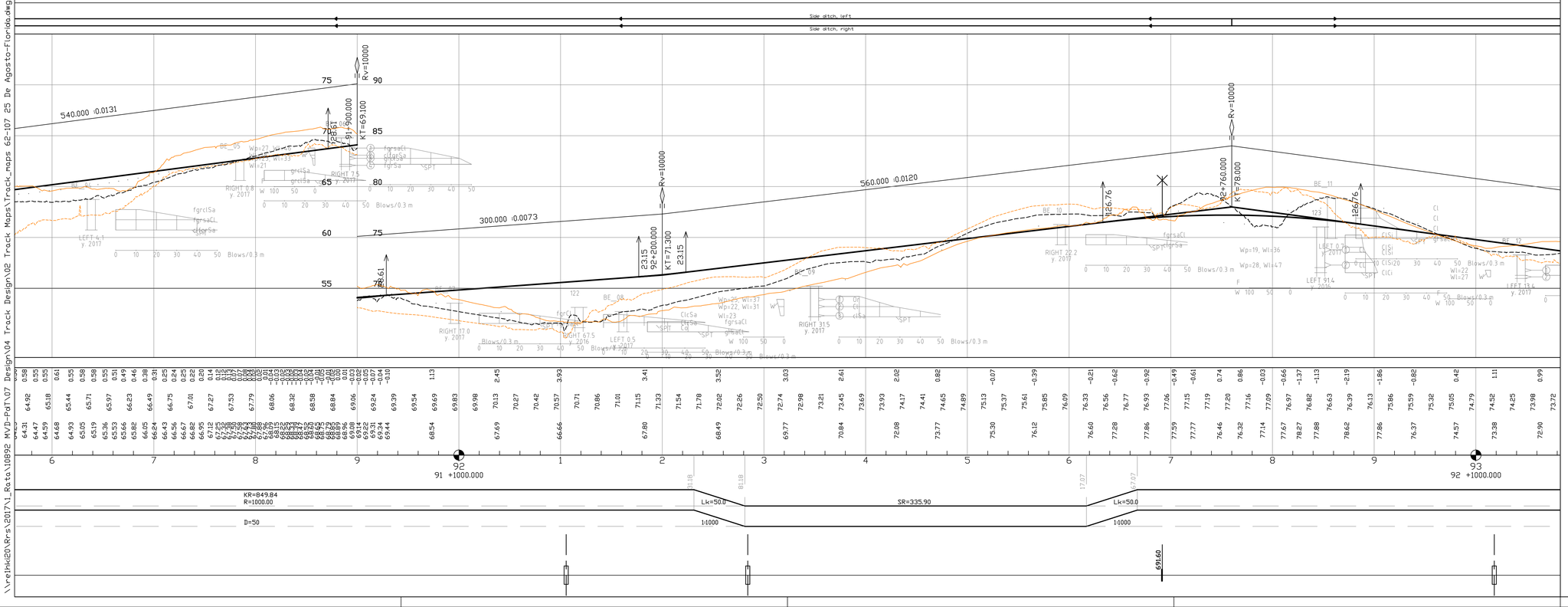

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

LCXXX — Level crossing

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
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SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
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Disturbed Sample
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LEGEND, PROFILE

Vertical railway alignment
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Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

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Level crossing

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Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 91+0600 - 93+0000

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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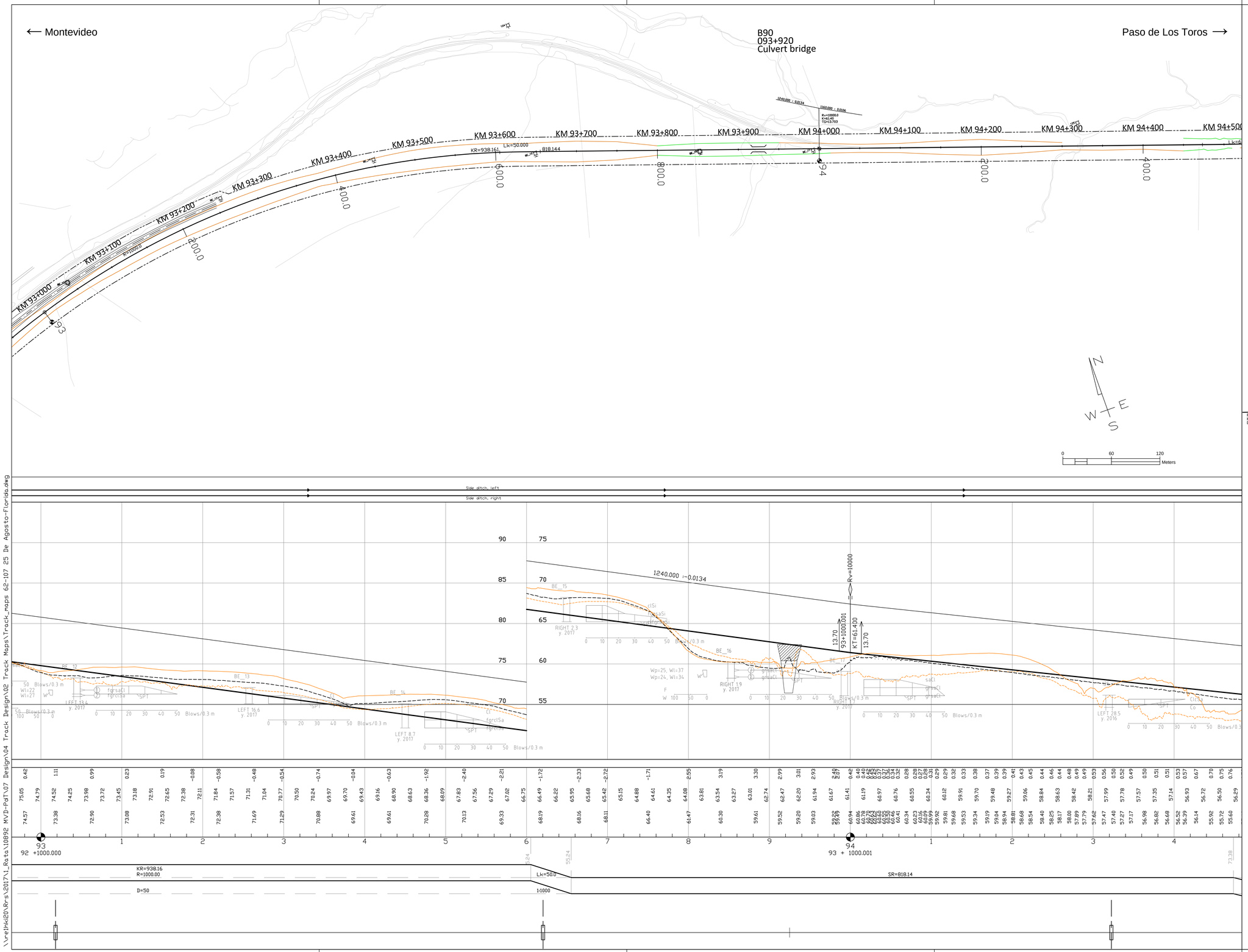

LEGEND, MAP

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LEGEND, PROFILE

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SR= length of straight line (m)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 93+0000 - 94+0400

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
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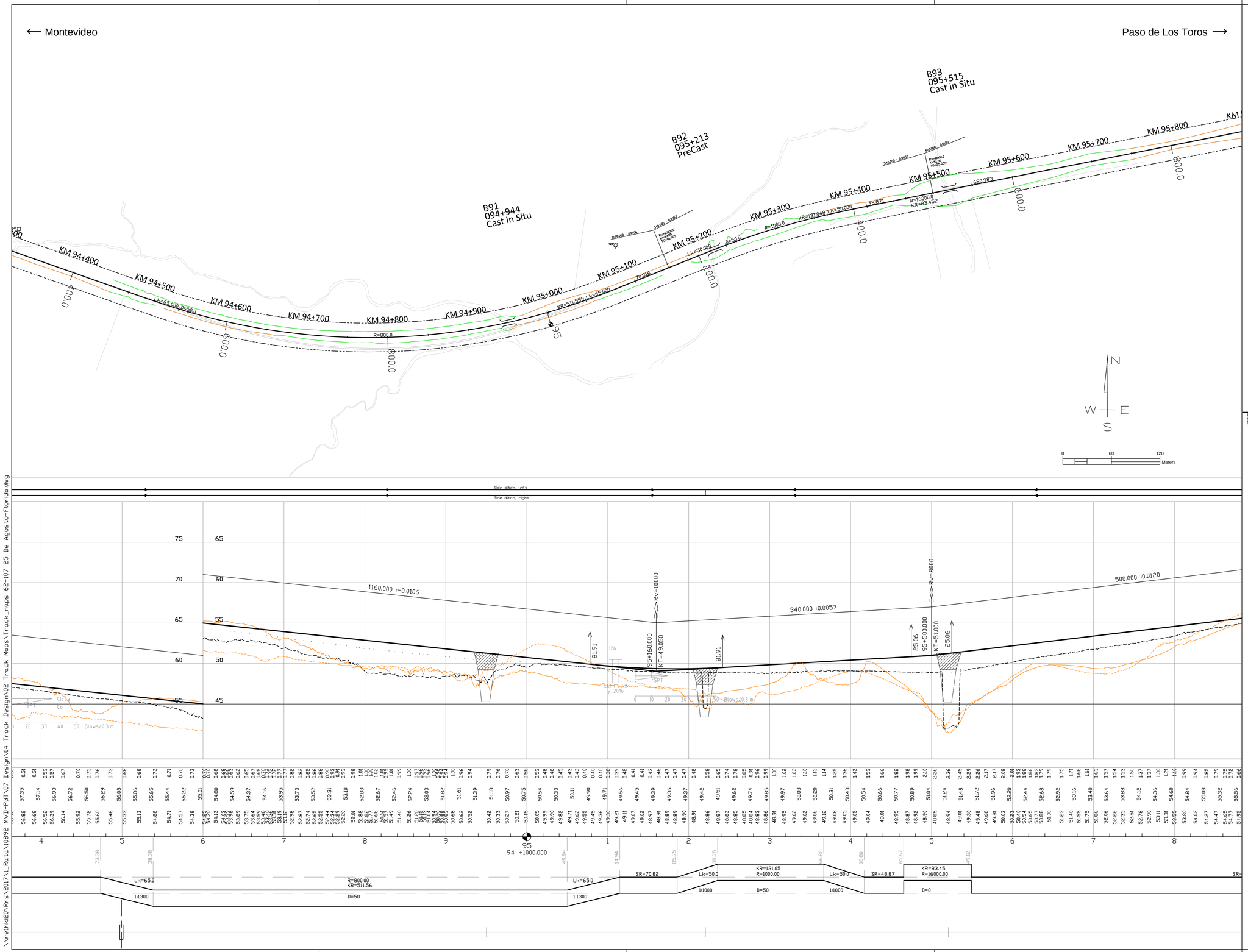

LEGEND, MAP

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Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 94+0400 - 95+0800

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	68	195

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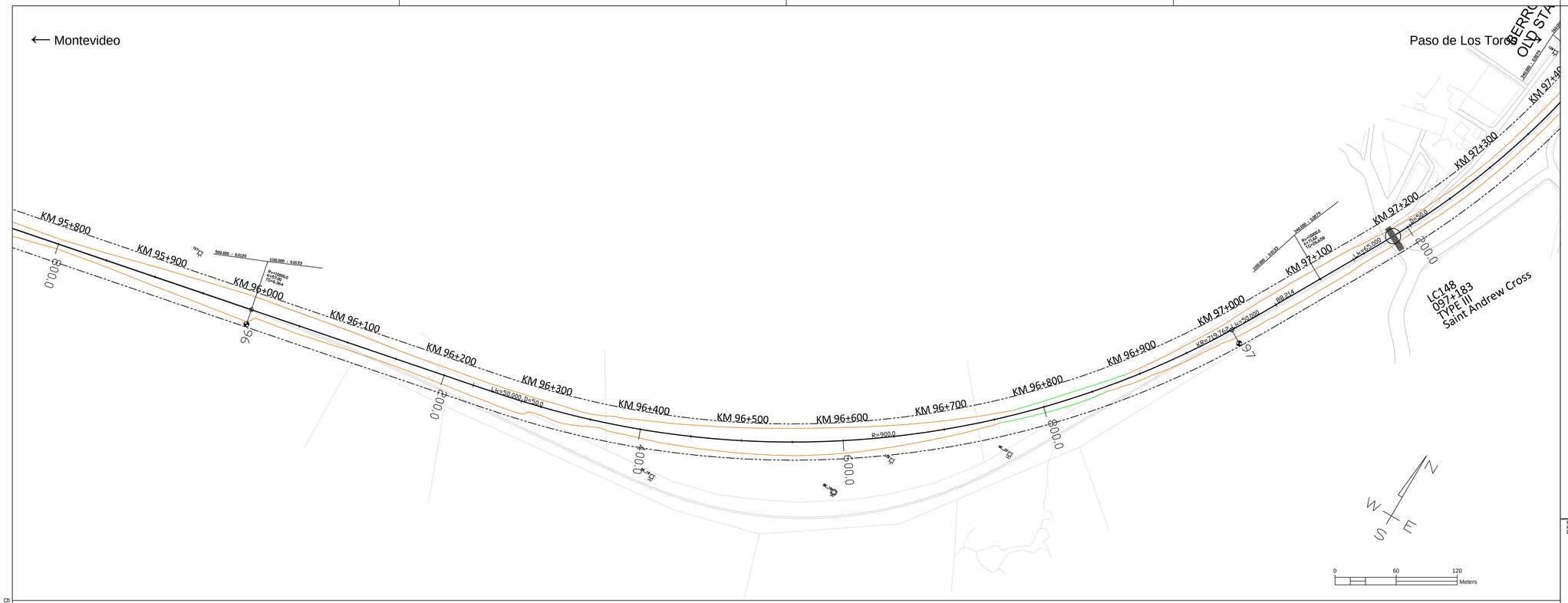
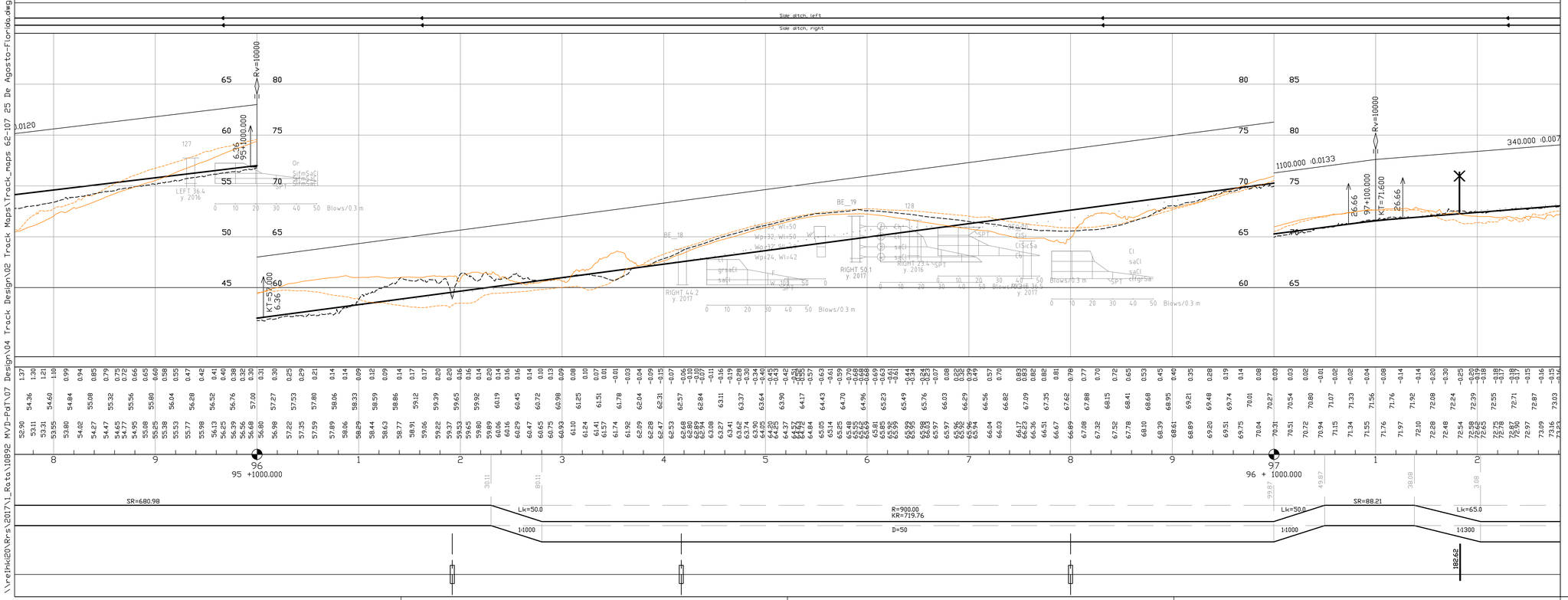
← Montevideo

Paso de Los Toros





LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
- Secondary Side Tracks - Horizontal geometry pre-designed (Secondary side tracks and their switches will be designed and constructed based on Appendix Q)
- Removal track
- Street or road modification area in level crossings or underpasses/flyovers
- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - Level crossing
  - LCXXX
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
  - 123.345= length of straight line (m)
- SPT-sounding, terminated at cobble, boulder, or bedrock contact.
  - y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample
  - y. 2017= year of investigation
  - TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
- Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)
- Culvert location (elevation will be designed in detailed design phase)
- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 95+0800 - 97+0200

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system: WGS 84 UTM 21 S, Local orthometric height
Elevation reference system

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	69	195

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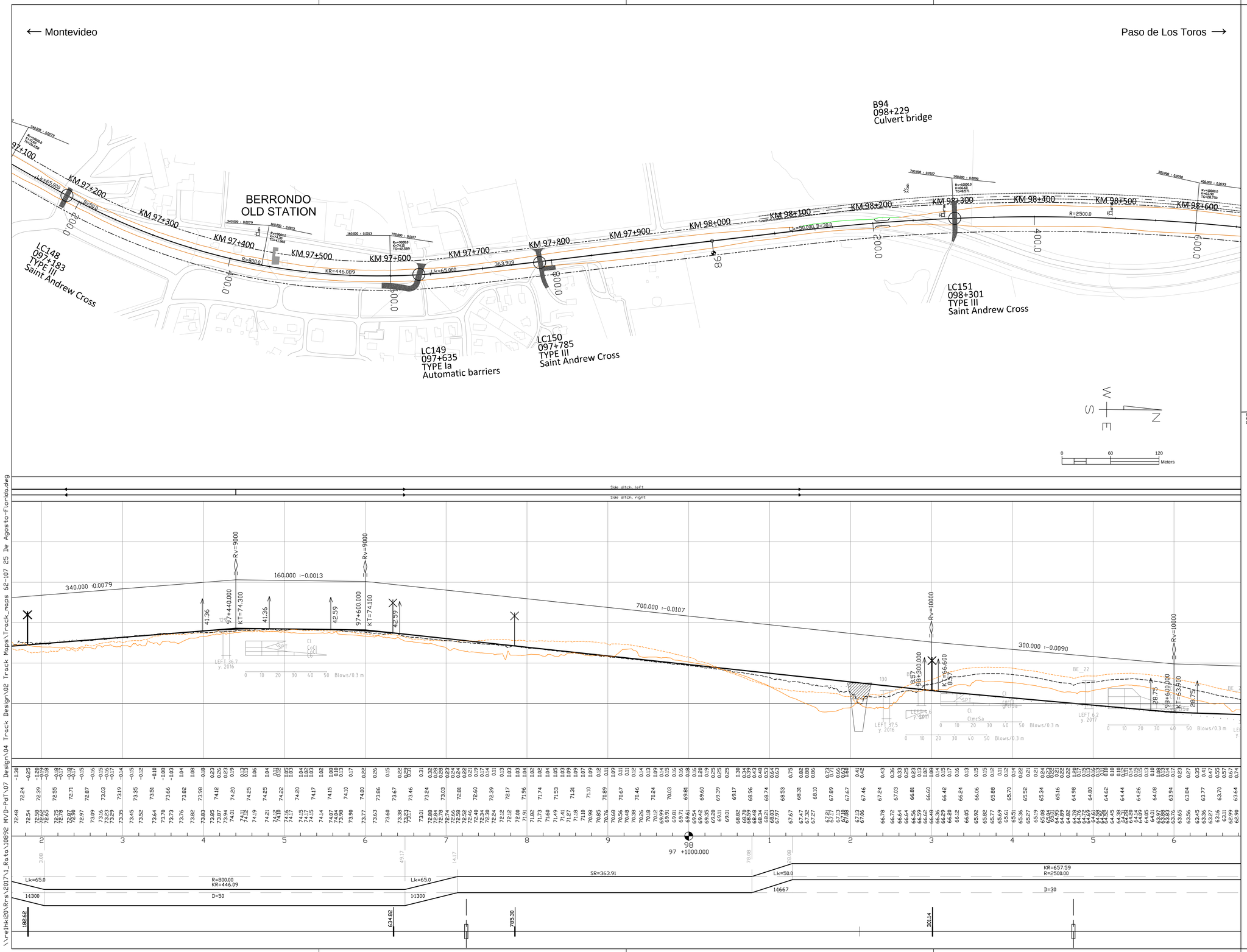

LEGEND, MAP

New railway alignment

Existing railway alignment (not in the Railway Project scope)

Railway Area borderline

Secondary Side Tracks - Horizontal geometry pre-designed
(Secondary side tracks and their switches will be designed and constructed based on Appendix Q)

Removal track

Street or road modification area in level crossings or underpasses/flyovers

Modification needed to the property access

Affected parallel roads and streets and maintenance roads

Road closing down

Limit of designed soil cut (open cut or cut with a retaining wall)

Limit of designed embankment fill, not including possible ditch

Existing stations or passenger platforms

New passenger platforms

Symbols

BXXX BXXX
Railway bridge or underpass, Flyover

CXXX
Culvert

Level crossing

LCXXX

Track alignment with design geometry figures
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
Rv= radius of vertical curve
K= elevation
TG= lenght of tangent
123.345= length of straight line (m)

SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 97+0200 - 98+0600

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system: WGS 84 UTM 21 S, Local orthometric height
Elevation reference system

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	70	195

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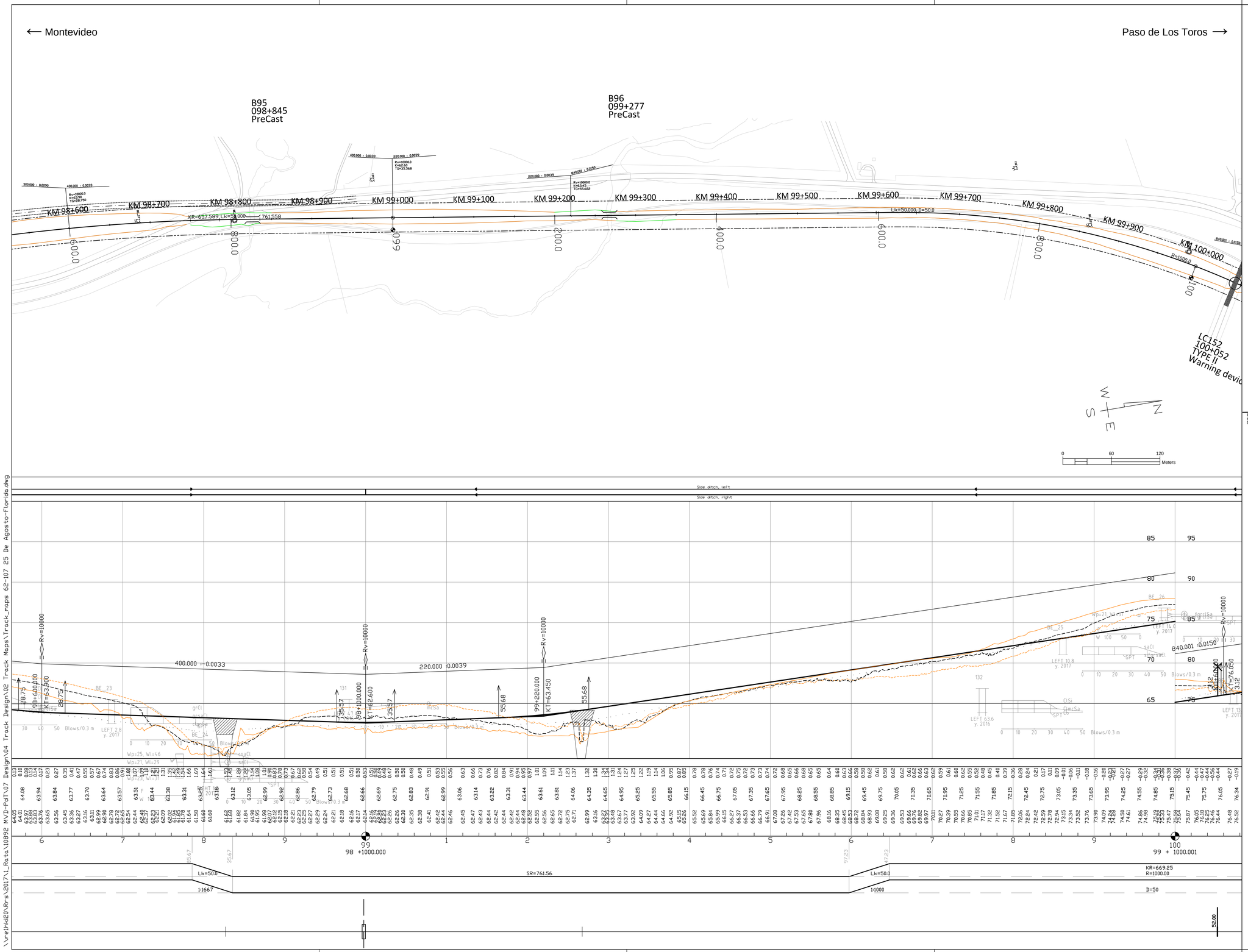

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
- Railway Area borderline
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- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

LCXXX — Level crossing

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
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K= elevation
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123.345= length of straight line (m)

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1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 98+0600 - 100+0000

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	71	195

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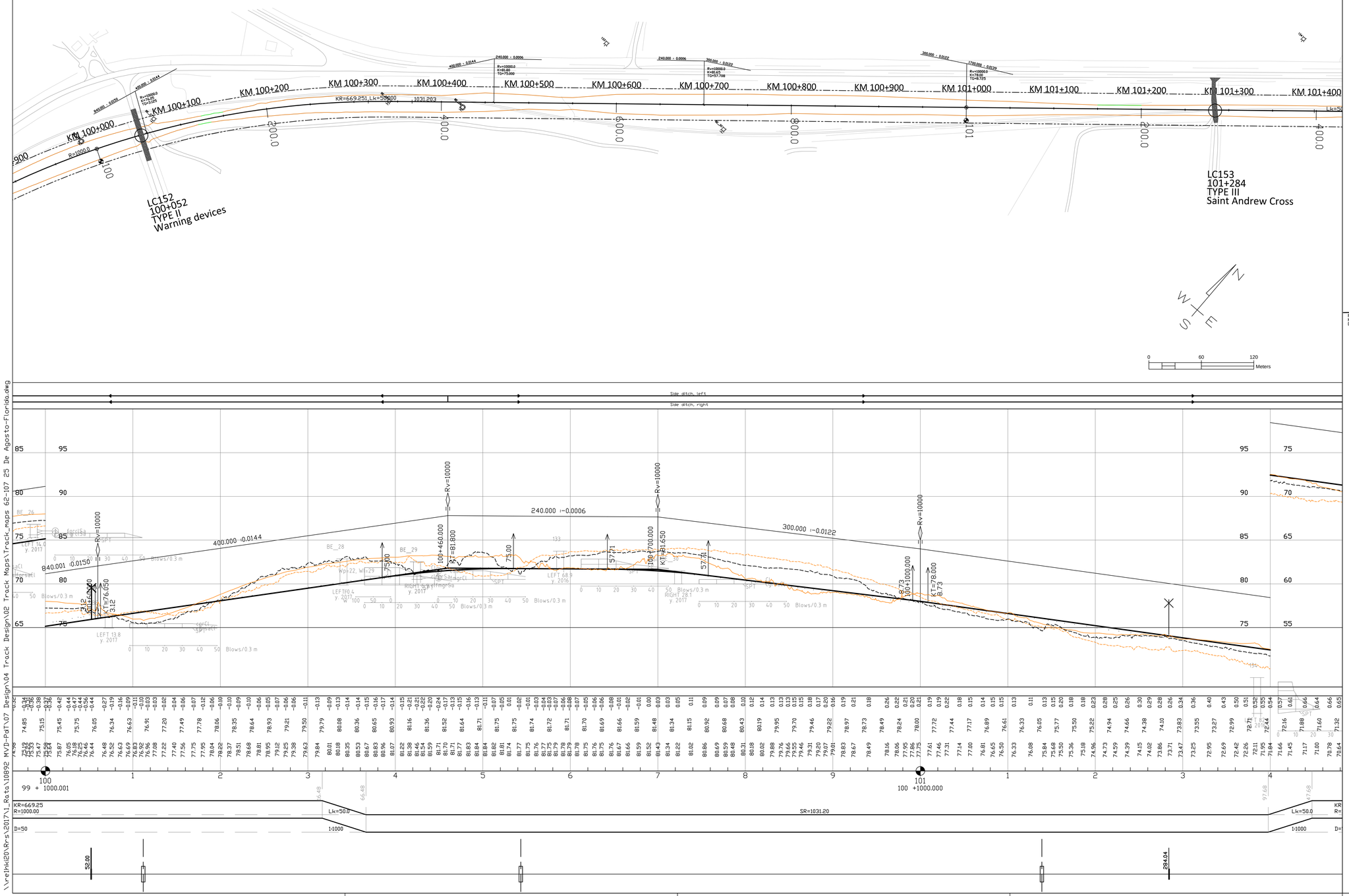
← Montevideo

Paso de Los Toros →



LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
  - BXXX — Railway bridge or underpass, Flyover
  - CXXX — Culvert
  - LCXXX — Level crossing
- Track alignment with design geometry figures
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)
  - Rv= radius of vertical curve
  - K= elevation
  - TG= lenght of tangent
  - 123.345= length of straight line (m)
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  - y. 2016= year of investigation, location of 2016 soundings not accurate
  - 1, 217= point number
- Disturbed Sample
  - y. 2017= year of investigation
  - TR02= point number
- LEGEND, PROFILE
- Vertical railway alignment
  (S=radius of vertical curve, KT=elevation point)
- Ground surface
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- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic
  - SR= length of straight line (m)
  - R= curve radius (m)
  - KR= length of curve (m)
  - D= track cant (mm)
  - Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 100+0000 - 101+0400

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	72	195

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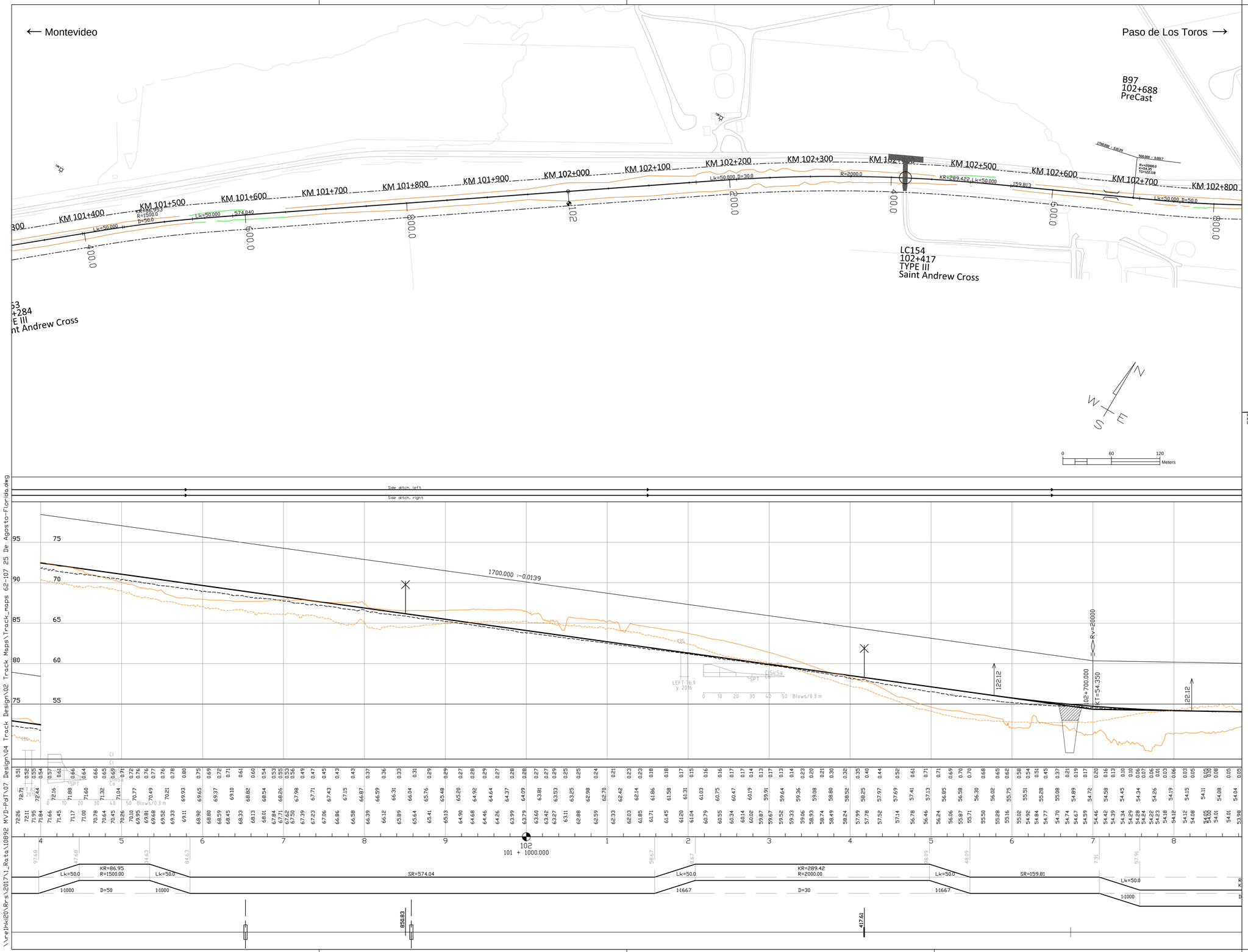

LEGEND, MAP

- New railway alignment
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- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms

Symbols

BXXX — Railway bridge or underpass, Flyover

CXXX — Culvert

LCXXX — Level crossing

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
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y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

Ground surface

Ground elevation on the left side of track centre line (-20m) and on the right side of track centre line (+20m)

Culvert location (elevation will be designed in detailed design phase)

Level crossing

Overpass bridge, railway or underpass bridge

Elevation figures

Difference between existing ground and designed track elevation

Designed track elevation (the running surface of the rail)

Existing ground elevation

Km stationing

Horizontal alignment, schematic
SR= length of straight line (m)
R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 101+0400 - 102+0800

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	73	195

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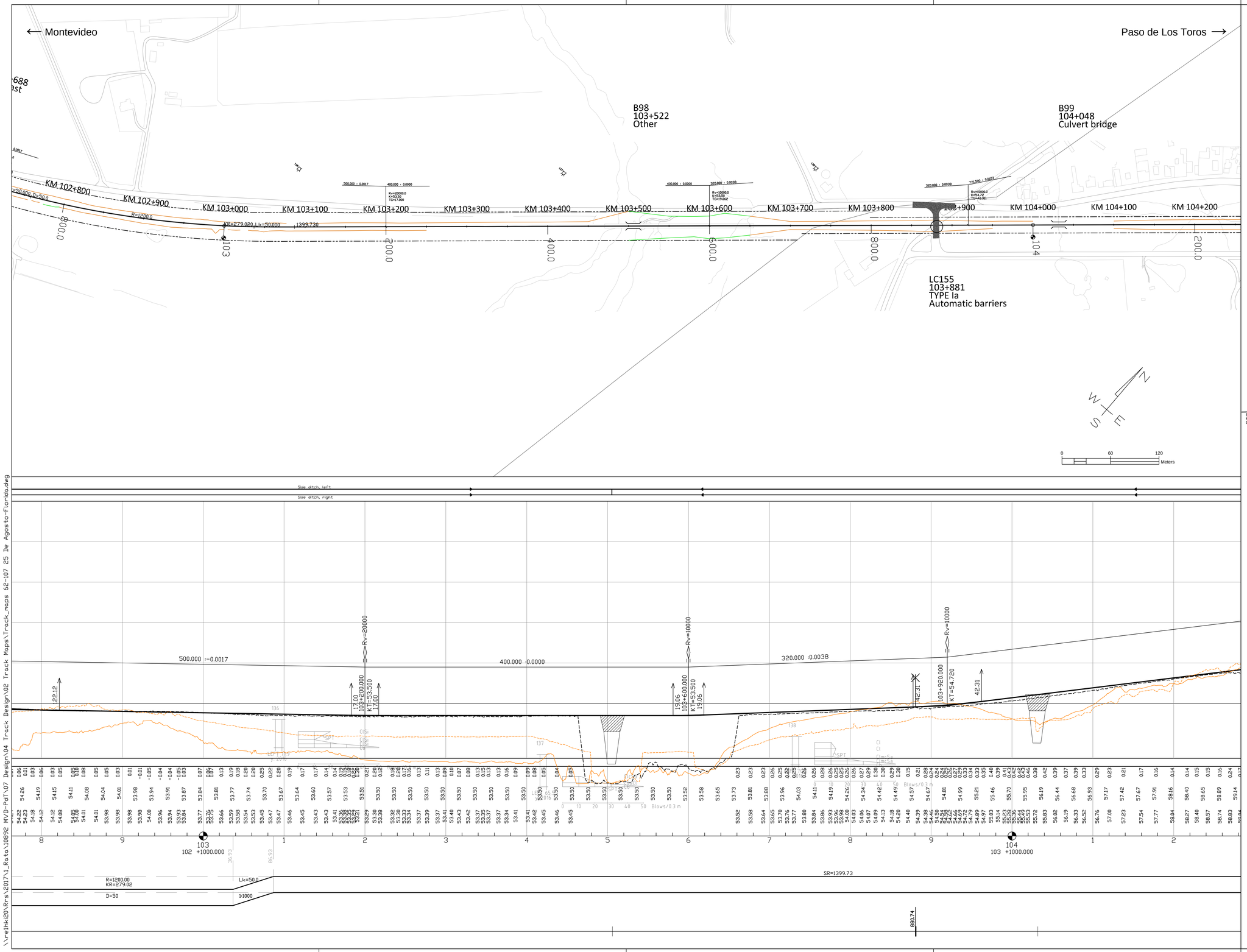

LEGEND, MAP

- New railway alignment
- Existing railway alignment (not in the Railway Project scope)
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- Modification needed to the property access
- Affected parallel roads and streets and maintenance roads
- Road closing down
- Limit of designed soil cut (open cut or cut with a retaining wall)
- Limit of designed embankment fill, not including possible ditch
- Existing stations or passenger platforms
- New passenger platforms
- Symbols
- BXXX — Railway bridge or underpass, Flyover
- CXXX — Culvert
- Level crossing
- LCXXX

Track alignment with design geometry figures

R= curve radius (m)
KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)
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K= elevation
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SPT-sounding, terminated at cobble, boulder, or bedrock contact.
y. 2016= year of investigation, location of 2016 soundings not accurate
1, 217= point number

Disturbed Sample
y. 2017= year of investigation
TR02= point number

LEGEND, PROFILE

- Vertical railway alignment (S=radius of vertical curve, KT=elevation point)
- Ground surface
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- Level crossing
- Overpass bridge, railway or underpass bridge
- Elevation figures
  - Difference between existing ground and designed track elevation
  - Designed track elevation (the running surface of the rail)
  - Existing ground elevation
- Km stationing
- Horizontal alignment, schematic

SR= length of straight line (m)
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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 102+0800 - 104+0200

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	74	195

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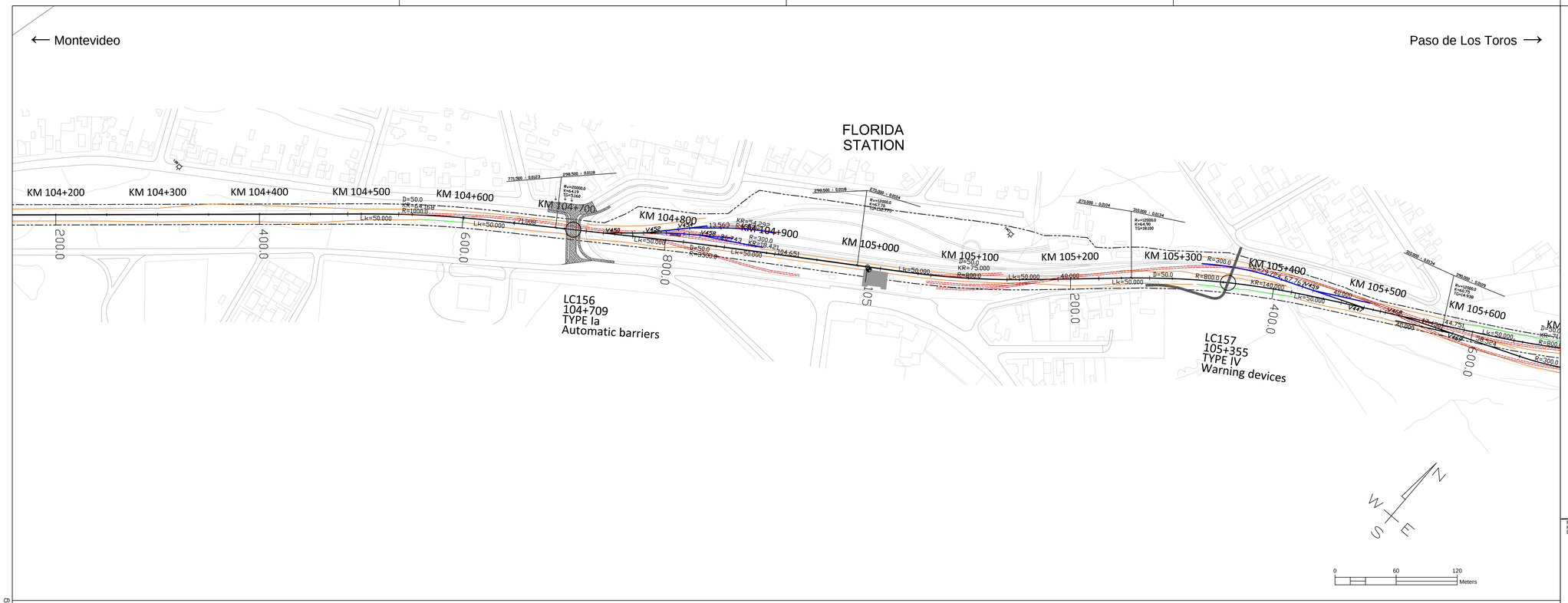

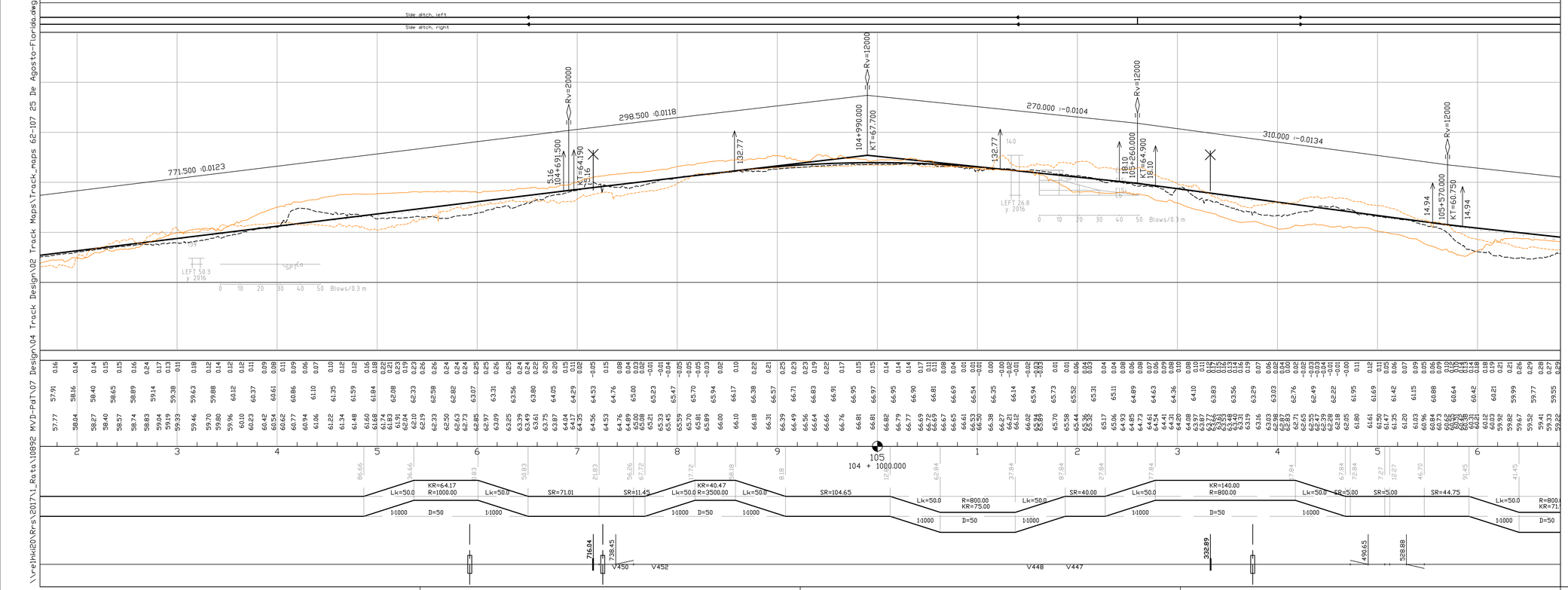

LEGEND, MAP

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- Existing railway alignment (not in the Railway Project scope)
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- New passenger platforms
- Symbols
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  - LCXXX — Level crossing
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LEGEND, PROFILE

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Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 104+0200 - 105+0600

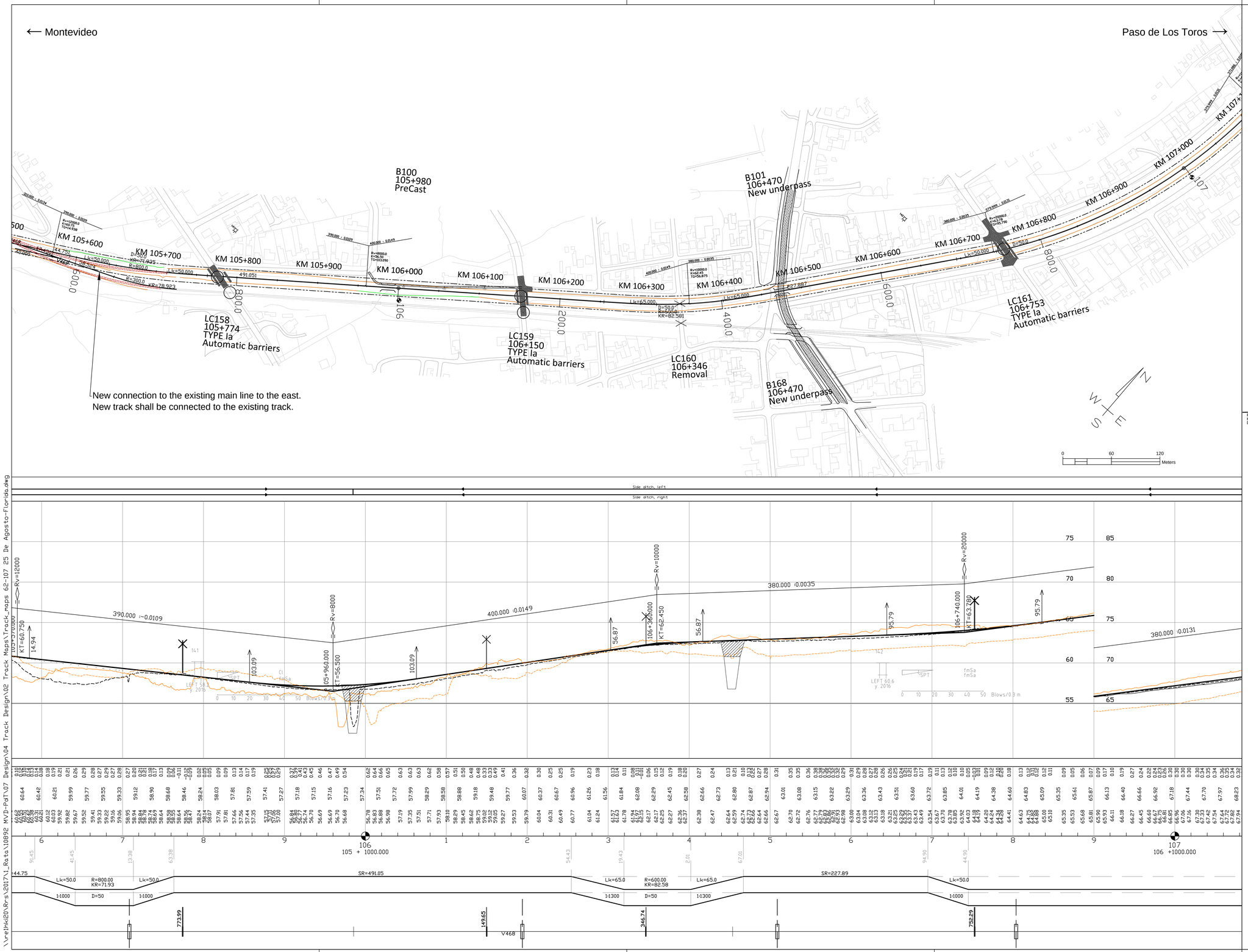
Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200

Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height

Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	75	195



LEGEND, MAP

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- Existing railway alignment (not in the Railway Project scope)
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  - Level crossing
  - LCXXX

Track alignment with design geometry figures

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LEGEND, PROFILE

Vertical railway alignment
(S=radius of vertical curve, KT=elevation point)

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Km stationing

Horizontal alignment, schematic
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KR= length of curve (m)
D= track cant (mm)
Lk= length of transition curve (m)

Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Content: Track map and profile

Km 105+0600 - 107+0000

Supplier: VR TRACK

Drawer	15.12.2017	UPa
Designer	15.12.2017	HMa / MLe
Supervisor	15.12.2017	SVi
Accept.		
Owner acc.		

Scale: map 1:2000, profile 1:2000 / 1:200
Coordinate system / Elevation reference system: WGS 84 UTM 21 S, Local orthometric height
Railway line: Montevideo - Paso de Los Toros

Archive	Type	Number	Rev.	Sheet	Sheets total
			-	76	195

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