Urban Elements

D1 Landscape



Urban Elements

Introduction

Rotterdam Central Station

Page 2

West 8 + Benthem Crouwel Architects + MVSA Architects *Credits: Luke Harley* Just as the quality of the architectural elements is essential for designing the passenger environment, green qualities play an important role in a station's overall environment. The railway external public area has an important part of the city's interaction with a station and a place for both passengers and residents to live a public space. Today's passengers, however, have very different demands for station environments and the design of green areas needs to be integrated with passenger flow and shared space. The quality of the park should be updated not only for the passenger experience, but also as part of sustainable urban planning. By working with consciously designed green spaces, it is possible to create environments with better air quality, less noise and strong identity, where is easy to find your way around. The modern railway park does not need not be a traditional park, but is a means of using vegetation as a cornerstone for designing and structuring passenger functions including arrival, parking, stops and the 'gap' with screening elements and side slopes. It is an important part of a station's profile, and requires close collaboration between the Transport Administration and the municipality or other landowners.

Station urban planning

In most cases, a station is centrally located in the urban area, but it may also be outside the urban area in a central location in relation to travel patterns and networks of different transport modes.

Offices, schools or housing near a station generate various types and amounts of travel. Offices near a station have the greatest effect on the selection of mode of transport. Distance and services have a bearing on selection of different modes of transport to the train: • Walking and cycling have great relevance up to 0.5–3 km, as does access to bicycle parking

- Buses have relevance for connecting journeys over 2km
- For car journeys, available parking and fees are important, especially in smaller towns

Railway yards and connecting areas can be developed to fulfill other functions. This provides opportunities for a more efficient use of land located in the vicinity of a station. A station is more integrated with its surroundings if a new building is added, for example, a new facility, or any enterprise that facilitates travel and which allows a station to be perceived as closer and safer.









D1.1 Requirements	
D1.2 Station Classification	
D1.3 Zoning Strategy	
D1.4 Identity	
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Requirements

Train, car and bus movements present constraining geometrical prerequisites, but it is how the movement pattern provides view ability, accessibility and ease for the passenger that is crucial to the final perceived value of a station environment which, in turn, affects the willingness to travel from a station.

Minimizing walking time within a station is important for the passenger's vision of a simple journey. Complexity differs markedly between central station and a regional station.

External area of the station must to be functional and easy to use by all users. The following requirements must be provided in each station type.

- 1) Car Parking
- 2) Bus stop

Page 4

- 3) Taxi drop-off
- 4) Pedestrian Area
- 5) Bike Parking
- 6) Kiss and Ride
- 7) Electrical Station









Bus Stop	
Taxi	
Kiss and Ride	
Car Parking	
Electrical Stations	
Bike Parking	

Station classification

A well-functioning station environment means the provision of functions, fixtures and comfort tailored to the type of station and passenger and to the number of passengers.

There are three factors that are deemed important when classifying stations:

- 1) Number of Passengers;
- 2) Level of Interchange;
- 3) Symbolic Value.

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	Туре	Station Type
RAIL BALTICA STATIONS	TYPE 1 - International	Main Station
	TYPE 2 - Landmark	Medium Station
	TYPE 3 - Basic	Small Station
	TYPE 4 - Platform	Essential Station







Volume of Travelers (According to RB Operational Plan)

International Station

< 600 PMD

< 300 PMD

< 150 PMD

Page 6

Station classification

Minimum requirements

According to the volume of travelers for each regional station, future designers must define the correct number and dimensions for each function.

The following table shows the minimum requirements of each function for each station type.

Function	TYPE 2 - LANDMARK		TYPE 3 - BASIC		TYPE 4 - PLATFORM	
Car parking	•	30 cars	•	20 cars	•	12 cars
Kiss and go	•	-	•	-	•	-
Taxi area	•	6 cars	•	4 cars	•	2 cars
Bus stop	•	-	•	-	•	-
Bike parking	•	-	•	-	•	-
Electrical station	•	6 stations	•	4 stations	•	2 stations

Note

Parkings must have the proper number of cars as per local legislations.







Landscape

Zoning Strategy

Zoning

In the construction of a station, it is important to consider the logic of movement of different types of passenger.

A simple station, where the proximity between transport modes provides a view and understanding of how a station must be used, is very important.

By describing a station in zones, which are almost always found, regardless of the station's size and type, one can understand the form and context. The transition between the parts should be perceived as natural.

These zones are:

1) Arrival zone

2) Waiting and Communication zone

3) Station

4) Platform









+	Platform	

Rail Baltica Urban Elements

Page 8

Landscape

Zoning Strategy

Flow analysis





ARCHITECTURAL, LANDSCAPING AND VISUAL IDENTITY DESIGN GUIDELINES FOR RAIL BALTICA





SERVICE FLOW

Page 9

Zoning Strategy

Zoning of the station area is employed to ensure efficient circulation.

First step of the strategy is to define the functions, define the boundaries of the site area and analyze the urban context. The main zones that structure the external area of the rail station are:

1) Arrival zone

- 2) Waiting and communication zone
- 3) Station
- 4) Platform

The arrival zone is the outer area where a station and its surroundings connect: a station's set-down/pick-up zone. The area includes a bus stop, a taxi rank, a set down and pick-up point for private cars and parking, and footpaths from these functions toward the trains. In some cases, the area also includes a road for service traffic to the platforms and trains. This subdivision facilitates the district's traffic and movement patterns around the station, but is also important for the individual passenger's own, rapid selection of route to the train.

Waiting and communication zone is the area between the platform and the arrival zone. This area should give to passengers the information to use correctly the area and each function inside and also provide comfortable place to rest and wait the train.

The station is the *house* of the passengers that contains the main public functions as rest point, information desk, retails and so on.

The platform is the nearest area to the train where people wait to catch the train or get out from the train. This area must be safety and comfortable.









Landscape

Identity

Network Identity: The Rail Baltica Touch One of the focal points of the design is that this infrastructure shall be recognizable in its entirety. The "Rail Baltica touch" shall be visible in all the elements of the track, both from the passenger's point of view and from the external point of view. The design of the elements shall be standardize on the

network and applied to the different elements.

Country Identity: The National Traditions

The cultures and identities of the three Baltic countries have points in common: they share the same history, face the same sea and are located in similar natural environments.

Despite this, the Baltic cultures also have many peculiarities that need to be taken into account by differentiating and enhancing them in each country. The same elements that characterize the identity of the network will have to have specific variations according to the country such as materials or colours.

Regional Identity: The Local Belonging

Culture and traditions of each of the three Baltic countries vary widely between their regions. Valuing local identities is therefore of fundamental importance, both for the concerned communities and for their integration. Especially in regional stations, spaces or elements shall be designed to show the local culture of a particular region, enhancing and increasing its awareness first on a national and then on an international level.



Network Identity

Country Identity

Regional Identity







Page 11

Identity

Identity Matrix







Landscape

Design Strategy

Position Strategy - Car & Bike Parking, Kiss & Ride and Bus Stop

Pedestrian flow

Positioning the arrival zone in the bottom area of the public area, people will be able to easily identify the area where they need to go and reach it when they leave the station without obstacles.

This approach for placing the functions, also allow PRM to use easily each part of the external area of the station without any help.

Car flows

Public and private car flows will be sorted before to enter in the station area. This approach will leave the pedestrian area safe and easy to use.







Station

Arrival zone

Waiting and communication zone





Landscape

Design Strategy

Position Strategy - Station

Along the line several stations will be placed each one with its own surrounding.

Site areas differ in terms of the urban context, dimension, and geometry.

Architectural, Landscaping and Visual Identity Design Guidelines instructs the designers to place station building and the functions within the external area of the station.







Landscape

Design Strategy

Position Strategy - Station

Designers should consider the minimum area of intervention around the building of the station. This includes the required free area surrounding the station that's required to maintain network identity.

Building

A 5 metres zone is required around the station building and a 7,5 metres zone is required in front of the building where the main entrance will be placed.







Landscape

Design Strategy

Types of Station

Dimensions and minimum requirements of the station change based on the number of passengers per day.		
imensions and minimum requirements of the station iange based on the number of passengers per day. he design of the external area is also based on this nodular approach". Is often happens, the construction of infrastructure is e opportunity for the development of municipalities. ased on this opportunity, the design shall take into count the possibility to expand the station and the ablic area in the next years. Is signers shall consider the minimum area of tervention around the building of the station in der to allow easily the expansion. Ased on the types defined for the stations, the design the public area provides three types of public space: type 4 - Platform station ssential public area (115m x 30m) type 3 - Basic station asic public area (115m x 40m) type 2 - Landmark Station/Basic Plus andmark/ Basic plus public area (115m x 50m)		
As often happens, the construction of infrastructure is the opportunity for the development of municipalities.	TYPE 4 - PLATFORM	
Based on this opportunity, the design shall take into account the possibility to expand the station and the public area in the next years.	ESSENTIAL PUBLIC AREA	115 Meters
Designers shall consider the minimum area of intervention around the building of the station in order to allow easily the expansion.		
Based on the types defined for the stations, the design		
of the public area provides three types of public space:		₩
Type 4 - Platform station Essential public area (115m x 30m)	TYPE 3 - BASIC BASIC PUBLIC AREA	⊜ ♥
Designers shall consider the minimum area of intervention around the building of the station in order to allow easily the expansion. Based on the types defined for the stations, the design of the public area provides three types of public space: Eype 4 - Platform station Essential public area (115m x 30m) Eype 3 - Basic station Basic public area (115m x 40m) Eype 2 - Landmark Station/Basic Plus Landmark/ Basic plus public area (115m x 50m)	BAGIOTOBEIOAREA	<i>د</i> ر المحمد
		T
Landmark/ Basic plus public area (115m x 50m)		115 Meters
		₫0 ♥
	TYPE 2 LANDMARK or BASIC PLUS PUBLIC AREA	
		115 Meters









Landscape

Design Strategy

Grow Strategy

The scheme illustrates grow strategy for public space outside the stations.

<i>₫</i> ® ♥	Landmark	Basic	Plus	YPE 4	30 m
	⋌ ₽		₽₽₽		
₽ ₽ ₽			Ţ		40 m
			T B B	ТҮРЕ 2	50 m







Landscape

Design Strategy

Grow Strategy - Parking

The development of the site area with the surrounding can increase the need for parking.

If the viability allows the pedestrian to cross easily the street, parking can expand on the other side of the street.









		Local Street	
•			
	,		
		7	

Page 18

Adaptability

Each country has its own environment and cultural traditions. Moreover, each regional station will be placed in site areas that differ in terms of the urban context, dimension, and geometry.

Based on these considerations, it's very difficult to define a design and ensure a common identity in all the site areas.

Architectural, Landscaping and Visual Identity Design Guidelines instructs the designers to use specific furniture, signage, materials, and vegetation in order to ensure a Network identity to each regional station.

Using these standardize elements in each public area, the design become adaptable to any context but recognizable.

The scheme illustrates how designers must use hardscape and softscape during the design phase for public areas.

Legend

- A Station building / Pedestrian paving
- B Pedestrian paving / Vehicle paving
- C Vehicle paving / Road
- D Pedestrian paving / Road
- E Pedestrian paving / Site boundary
- F Pedestrian paving / Platform area
- G Green area / Vehicle paving
- H Green area / Pedestrian paving
- I Flowerpot Type 1
- J Flowerpot Type 2
- K Bench
- L Green area / Site boundary







Landscape

Hardscape

Materials Overview

Several materials are selected along with the Architectural, Landscaping and Visual Identity Design Guidelines Elements to represent the Network Identity of the Rail Baltica Line.

Network materials palette ensure a common identity to each public area near the Rail Baltica station, giving the possibility to future designers to propose a design suitable for each site.

Please notice that in order to ensure to everyone an easy usage of the public area, paving must be as smooth as possible.

PAVING AND FURNITURE



Materials specifications:

- 1 Brick tiles: 7 cm x 20 cm
- 2 Limestone: 20 cm x 50 cm
- 3 Stone tiles: 10 cm x 10cm
- 4 White stone or white concrete
- 5 Wooden slat
- 6 Weathering steel plate
- 7 Gray Stone
- 8 Metal grid
- 9 Dark grey metal









RBDG-MAN-031D

Landscape

Hardscape

Detail A - Station building / Pedestrian paving



Around the station building shall be provided a border of at least 60 cm with the same paving of the pedestrian area but installed with a different orientation. For border and pedestrian paving can be chosen material 1 and material 2.









Landscape

Hardscape

Detail B - Pedestrian Paving / Vehicle Paving



Note

Rail Baltica

Pedestrian paving, curb and vehicle paving shall be designed using three different materials.

For pedestrian paving can be chosen material 1 and material 2. For curb shall be used material 4 and shall be at least 20 cm. For vehicle paving shall be used material 3.

3TI





D1.7

Landscape

Hardscape

Detail C - Vehicle Paving / Road













Landscape

Hardscape

Detail D - Pedestrian Paving / Road



4. PEDESTRIAN PAVING CURB

Note

Where a pedestrian paving adjoin a road shall be provided a curb of at least 20 cm. For pedestrian paving can be chosen material 1 or material 2. For curb shall be used material 4.

Rail Baltica







Landscape

Hardscape

Detail E - Pedestrian Paving / Site Boundary





Where a pedestrian paving adjoin the site boundaries shall be provided a curb of at least 20 cm. For pedestrian paving can be chosen material 1 or material 2. For curb shall be used material 4.





ARCHITECTURAL, LANDSCAPING AND VISUAL IDENTITY DESIGN GUIDELINES FOR RAIL BALTICA



D1.7

Landscape

Hardscape

Detail F - Pedestrian paving / Platform area





Between the pedestrian area and the platform area shall be placed a fence. For the fence design please refer to the chapter D1.11.

Pail Baltica





Landscape

Hardscape

Flowerpot - Type 1



BORDER

Note

Placing flowerbed type 1 shall be provided a border of 10 cm with material 4 and, internally, 60 cm of material 3.





INTERNAL ROWS

Landscape

Hardscape

Flowerpot - Type 1





Note

Placing flowerbed type 1 shall be provided a border of 10 cm with material 4 and, internally, 60 cm of material 3.





ARCHITECTURAL, LANDSCAPING AND VISUAL IDENTITY DESIGN GUIDELINES FOR RAIL BALTICA





RBDG-MAN-031D

Landscape

Hardscape

Flowerpot - Type 2





BORDER

Note

Placing flowerbed type 2 shall be provided a border of 10 cm with same materials of the pedestrian area (material 1 and material 2).

Internally, a grid of materials 8 shall be placed.







INTERNAL GRID

Landscape

Hardscape







Note

Placing flowerbed type 2 shall be provided a border of 10 cm with same materials of the pedestrian area (material 1 and material 2).

Internally, a grid of materials 8 shall be placed.









Landscape

Hardscape

Manholes and grids









Note

Placing a manhole or a grid, shall be provided a border of at least 10 cm around it with the same material of the paving where it is placed.





RBDG-MAN-031D

Landscape

Softscape

Vegetation Overview

The Rail Baltica line across three different countries. Each as a primary colour assigned for identification.



Designers can define and choose from native species of trees and flowers in order to apply the identity to the green areas.







Landscape

Softscape

Design Strategy

Designers shall provide in the proposed design a minimum area intended for green area.

Type 4 - Essential public area

Designers shall provide in the proposed design at least 20% of green areas compared to the total surface of the site area.

20%

Type 3 - Basic public area

Designers shall provide in the proposed design at least 20% of green areas compared to the total surface of the site area.



Type 2 - Icon / Basic Plus public area

Designers shall provide in the proposed design at least 20% of green areas compared to the total surface of the site area.















Landscape

Softscape

Detail G - Green Area / Vehicle Paving





Where a green area adjoin a vehicle paving shall be provided a curb of at least 20 cm. For vehicle paving shall be used material 3. For curb shall be used material 4.











Landscape

Softscape

Detail H - Green Area / Pedestrian Paving





Note

Where a green area adjoin a pedestrian area shall be provided a curb of at least 20 cm. For pedestrian paving can be chosen material 1 and

material 2. For curb shall be used material 4.





Landscape

Softscape

Detail I - Flowerpot Type 1



For hardscape indications please refer to page 26.









Landscape

Softscape

Detail J - Flowerpot Type 2



FLOWERBED TYPE 2 BORDER PE

Note

Where a green area is inside a flowerbed type 2 shall be provided a border of at least 10 cm and a grid inside the border.

For hardscape indications please refer to page 28.

Pail Baltica






Landscape

Softscape

Detail K - Bench



Note

A green area can be placed enclosing it inside benches. Benches will be realized in concrete with wood and stone finishes.









Landscape

Softscape

Detail L - Green Area / Site Boundary





Note

Rail Baltica

Where a green area adjoin the site boundaries shall be provided a curb of at least 20 cm. For curb shall be used material 4.

3TI

SBS ENGINEERING GROUP



Landscape

Signage and Wayfinding

Identity Matrix







R

Landscape

Signage and Wayfinding

Urban Signs Overview

External signs include: totem signs which identifies the station as well as fingerpoints signs which provide directions for passengers.



Legend

• 1. Urban Totem sign

- 2. Urban Fingerpointer sign
- 3. Urban Stand sign





Landscape

Signage and Wayfinding

Position Strategy

It is important for the signs to be allocated in the best possible way to ensure accessibility and safe route to the station. Urban signs should help directing passengers to the points of interest within the station external area.



Main pedestrian access

Legend

- 1. Urban Totem sign
- 2. Urban Fingerpointer sign
- 3. Urban Stand sign





Landscape

Shelter

Identity Matrix







R

Rail Baltica Urban Elements

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Landscape

Shelter





Pail Baltica





Landscape

Shelter

Bus Stop







Section A

● Rail Baltica







Rail Baltica Urban Elements

Page 45

Landscape

Shelter

Bike Parking





Landscape

Shelter

Bike Parking









P Rail Baltica













R

Landscape

Furniture

Bench

















Landscape

Furniture

Bench





Note

Benches will be realized in concrete with wood and stone finishes. The dimensions provided for the section shall be respected but the extrusion can be done as per future design.

Under the bench shall be provided a border with the same paving of the pedestrian area (material 1 and material 2) of at least 70 cm.





Landscape

Furniture

Bench





Note

The seating area must be of 60 cm and must be realized with material 5. The back part must be 40 cm and must be realized with material 4.

If the bench will be extruded in a circle the interior diameter must be of 6 meters.









RBDG-MAN-031D

Rail Baltica

SBS ENGINEERING

Landscape

Furniture







Landscape

Furniture

Transparent Fence





The pattern used to assign identity to the transparent fences are lines that define Right Triangles.

For the fence the pattern starts with a 1.00 meters height right triangle that covers first row panel of 1.00 meter height.

On all the diagonal and vertical lines between two control points (blue, magenta or orange) must be placed a line.

For the 0,50 meters height modules the same rules must be followed refering to the magenta and orange control points.







Landscape

Furniture

Wooden / Metallic Fence





The pattern used to assign identity to the wooden/ metallic fences are lines that define Right Triangles.

For the fence the pattern starts with a 1.00 meters height right triangle that covers first row panel of 1.00 meter height.

On all the diagonal lines between two control points (blue, magenta or orange) must be placed a plate. On all the vertical lines between control points the plates must be interrupted.

Other plates must be placed perpendicular to the plates placed on the diagonal lines between control points.

The plates under the line between the blue control point P1 and the magenta control point P4 must be vertical oriented.

For the 0,50 meters height modules the same rules must be followed referring to the orange control points.







Landscape

Furniture

Bike Rack





Pictures

- From above:
- Image 1 *Credits: weburbanist.com* Image 2 - *Credits: weburbanist.com*
- Image 3 Credits: forms-surfaces.com
- Image 4 Credits: forms-surfaces.com





ARCHITECTURAL, LANDSCAPING AND VISUAL IDENTITY DESIGN GUIDELINES FOR RAIL BALTICA



Bike racks can be placed netx to the station in order to ease the access of the cyclists to the station. The design of the bike rack will be on the future designers choosing between the two solutions proposed in the side images.





RBDG-MAN-031D

Landscape

Accessibility

Tactile

In order to make it accessible and reachable in a broad sense, a station should be designed so that it is usable for all. Regulations and guidelines are found in both national and EU directives.

For people with disabilities, a well thought-out, integrated environment with few obstacles to ease and independence of movement in the environment is crucial. In addition to creating an integrated environment, stations and transfer points in their basic functions, construction and design should comply with the requirements and regulations regarding disabilities that society imposes on a station's function and physical design.

Tactile paths are one of the main important elements to ensure to all passengers an easy use of the station areas.

Six are the main codes that should be used:

1. Straght

Page 55

- 2. Stop / Danger
- 3. Crossroads between 3 or 4 roads
- 4. Turn 90°
- 5. Attention important service
- 6. Feasible danger







Pictures

- From left:
- Image 1 Credits: Shutterstock
- Image 2 Credits: caesar.it
- Image 3 Credits: visulsystems.com
- Image 4 Credits: tacpro.com.au





Straight direction

Uncrossable Potential danger Crossroad

Turn









Service

Feasible danger



Note

Braille map should be placed in strategic point of the public areas, where blind people can stop to analyze the map and understand how to move in the surrounding easily and safety.







Braille map

Tactile path

Landscape

Accessibility

New Technologies

Each LVE tactile path, in order to work in the best way as a multisensional guide for blind people, shuld be mapped.

The mapping consists in assigning to each TAG RFG, placed under the pavement, several useful information for the user as the signaling of a danger, a service and any other specific information to every design requirement.

The mapping can also be done later than the installation of the tactile path.

LVE technology provides rapid vocal information on the surrounding environment. In this way, the user, through the connection system with the smartphone / tablet and the bluetooth earphone, is correctly and analytically informed of the entire environmental context.

It is also possible to transmit voice messages that provide simple information, such as:

- presence of crossings;
- pedestrian crossings;
- travel guidelines;
- any points of interest.

Furthermore, the voice messages, allow the transmission of even more elaborate information, such as:

- news on means of transport;
- presence and information on museums, ٠ archaeological excavations, historic centers etc;
- information on public facilities (universities, schools, hospitals, etc.).

Note Source: dascenzi.it



TAG RFG







Landscape

Accessibility

Tactile tiles

Drawings illustrate the general dimensions for the tactile tiles.

Based on the information that must be communicate to blind people, a specific tactile tile must be used.





400 mm 400 mm



300 mm



Note Source: dascenzi.it







400 mm









400/variable mm

300 mm

400 mm

300 mm

Landscape

Accessibility

Typical Tactile Path



Feasible danger

Note

The scheme illustrates an example on how to combine the different tactile tiles. *Source: dascenzi.it*







Landscape

Design Proposal

Concept

The concept illustrates a proposal for the design of the public area.

Future designers and municipalities can use this approach for the design or only take inspiration from this proposal to elaborate a new one more suitable for a specific site.

Since Regional station will be located in several different site, proposed concept takes inspiration from a more big surrounding: the entire countries, their tradition and culture.

During the interviews with the Stakeholders, one of the most poetic answer we have received when we have asked: "What you have in common with the other countries?" they have answered "the sea".

Reference + Shapes





Pictures From left: Image 1 - Credits: vaatetorni.ee Image 2 - Credits: pixabay.com







Design

Landscape

Page 61

Design Proposal

Design Strategy

Once minimum requirements have been defined, each function has been placed in the site area taking into consideration functionality, accessibility, recognizability and ensure and easy use for everyone.









Landscape

Design Proposal

Design Strategy

Car Parking, Taxi, Kiss & Ride and Bus Stop are functions that required a driveway paving.

It is recommendable to place these functions near the street preserving the pedestrian area and allowing users to use the plaza in a more safe way.

Station building should be visible and easy to reach also for PRM, for this reason it is recommendable to don't insert obstacles along the main flow and provide tactile and Braille map in strategic points.







Landscape

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Design Proposal

Geometry









Design Proposal

Geometry

Cyan			
Spot	Х	Y	
P1	0,00	2,50	
P2	5,30	2,50	
P3	8,30	5,20	
P4	10,00	22,75	
P5	27,00	23,10	
P6	29,50	5,40	
P7	32,90	2,50	
P8	34,15	2,50	
P9	36,50	3,50	
P10	38,65	5,60	
P11	53,00	8,40	
P12	65,00	3,20	
P13	68,50	2,50	
P14	73,50	2,50	
P15	76,00	2,90	
P16	88,25	6,55	
P17	100,30	4,50	
P18	106,25	2,50	
P19	115,00	2,50	

	Green	
Spot	Х	Y
P1	10,00	22,75
P2	20,00	32,50
P3	25,60	32,50
P4	37,80	26,00
P5	41,90	20,15
P6	83,75	11,30
P7	93,70	15,10
P8	103,80	27,15
P9	114,50	32,10
P10	115,00	32,10
P11	29,00	8,85
P12	39,10	7,50
P13	53,00	8,40
P14	92,40	7,15
P15	115,00	7,15

SPOT COORDINATES

	Orange	
Spot	Х	Y
P1	5,00	50,00
P2	5,00	43,00
P3	14,20	34,20
P4	29,00	35,00
P5	34,30	32,30
P6	41,90	20,15
P7	60,00	18,40
P8	65,35	24,10
P9	75,25	22,40
P10	78,30	15,40
P11	90,50	14,30
P12	103,50	33,40
P13	112,50	38,20
P14	115,00	38,20

Magenta			
Spot	Х	Y	
P1	2,75	46,50	
P2	2,75	36,50	
P3	2,75	26,50	
P4	2,75	16,50	
P5	2,75	6,50	
P6	6,75	23,00	
P7	6,75	13,00	
P8	27,25	43,00	
P9	32,25	24,00	
P10	32,25	12,00	
P11	37,25	17,50	
P12	51,00	21,50	
P13	58,50	11,50	
P14	63,50	17,50	
P15	84,00	19,00	
P16	95,00	11,50	
P17	100,00	17,50	
P18	105,00	11,50	
P19	110,00	42,50	
P20	110,00	27,00	
P21	110,00	17,50	

Pail Baltica





RADIUS OF THE ARCHES

Cyan			
Arc	Radius		
P2-P3	3,00		
P4-P5	8,50		
P6-P7	3,40		
P8-P9	3,40		
P10-P11	13,00		
P12-P13	8,75		
P14-P15	8,95		
P16-P17	13,80		
P17-P18	9,80		

Green			
Arc	Radius		
P1-P2	15,00		
P3-P4	15,00		
P6-P7	6,50		
P8-P9	4,50		
P11-P12	9,00		
P12-P13	9,00		

Orange			
Arc	Radius		
P2-P3	8,75		
P4-P5	5,85		
P6-P7	11,50		
P8-P9	6,00		
P10-P11	7,00		
P12-P13	11,00		

Landscape

Design Proposal

Typical Landscape Scenario









Landscape

Design Proposal

Materials Strategy









Landscape

Design Proposal

Materials Strategy







Landscape

Design Proposal

Materials Strategy











Landscape

Design Proposal

Materials Strategy









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Landscape

Design Proposal

Materials Strategy











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Landscape

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Materials Strategy







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ARCHITECTURAL, LANDSCAPING AND VISUAL IDENTITY DESIGN GUIDELINES FOR RAIL BALTICA

RB Rail AS

