



03 The NZASM *Footsteps Along the Tracks* Built Heritage Survey

The last survey of NZASM built heritage residue was undertaken by Robert de Jong, then researcher at the Human Sciences Research Council, in the latter half of the 1980s.

This informed to a large extent the content of the NZASM 100 : 1887–1899, *the buildings, steam engines and structures of the Netherlands South African Railway Company* book (1988). No inventory was published at the time.

This chapter presents the results of the *Footsteps Along the Tracks* NZASM Built Heritage Survey, undertaken in 2016, and informed by precursory field work undertaken in 2011 2012 and as part of the *Eclectic ZA Wilhelmiens* project.

The survey was undertaken by Clarke and Fisher, with additional assistance by Johan Swart (Department of Architecture, University of Pretoria) and Sipiwe Simelane (Candidate architect and project research assistant).

The survey identified 362 extant structures in total. The survey is not meant to be comprehensive, but aimed at inventorying the maximum number of structures possible within the ambit of time and budget available to the project.

While most of what had previously been identified was found, their conditions were substantially altered from the time of 1908s survey, invariably more weathered, although sometimes in better state of repair, or in the process of repair.



03.01 (top): The only remaining Fish Belly Girder Truss bridge incorporating the original NZASM-installed steel. This distinctive and unique bridge over the Saalklapspruit is no longer functional. (Swart, JJ. 2016)

03.02 (bottom): The Waterval Boven Station Gangers Cottage (NZASM_EL_063) in 1986 and in 2016. This, reputed to be the oldest building in Emgwenya (Waterval Boven), is in a good state of conservation and in daily use. (3.02 De Jong, RC)





03.04 and 03.05: The double Gangers Cottage at Groot Olifantsrivier Station (NZASM_EL_135) has all but totally disappeared in the thirty years between 1986 and 2016. (3.04 De Jong, RC)



03.06 and 03.07: The highly significant platform canopy has been relocated from Esselen Park in Ekhuruleni to Johannesburg where it now (2016) awaits reuse. This relocation has brought the structure back to the public realm and experience. (3.06 De Jong, RC, 1992)





ANNO 1896

KRUGERSDORP

03.1 NZASM Rand Tram Line (1888–1899)

Background to the Rand Tram

The development of the Witwatersrand gold-mining industry after the discovery of the gold-bearing reef in 1886 created a pressing need for infrastructure, especially transport facilities, on the Rand. Ox-wagons—the only means of transport—could no longer cope with the needs of the mines as regards the conveyance of coal for use in the steam-driven ore crushing and hoisting machines. The nearest coalmine was situated at Boksburg some 27 km to the east of Johannesburg.

The ZAR government was therefore faced with a dilemma: for political and ideological reasons it had given precedence to a railway between the seat of government, Pretoria, and the east coast. Now the exigencies of the mining industry demanded the provision of a local railway on the Rand to the south of Pretoria. The clamouring for such a railway by the *Uitlanders* could not be ignored, having brought prosperity which swelled the state coffers.

At this point the long standstill on the Delagoa Bay Line had become extremely frustrating to the NZASM. JL Cluysenaer (1843–1942), director of the NZASM, realised that this was an opportunity for the NZASM to get involved in what promised to be a very profitable enterprise. He submitted a tender for the construction of the line. Two other tenders were also served before the *Volksraad*. Kruger took up the cudgels for the NZASM and in July 1888 the government was authorised to enter

into a contract with the Dutch company and it allowed the government a say in the fixing of rates. At the same time Cluysenaer had asked for the right to exploit the Boksburg coal-fields and this was granted.

The 'Rand Tram', as this short railway came to be known –a euphemism to disguise its true character since the ZAR could be seen as in breach of other contractual arrangements with neighbouring governments –was opened for traffic on 17 March 1890. The working of the line proved extremely lucrative. This became even more so when the extended line from Springs in the east to Krugersdorp in the west was opened on 10 February 1891. This increased the total length of the line to 81 km.

The construction and working of the Rand Tram provided the young Dutch company with valuable experience. Serious logistical problems had to be overcome with regard to construction. All building materials and rolling stock had to be transported by ox-wagon from Kimberley or from Ladysmith, the Natal railhead that time. The working of the line proved just as difficult.

Researchers' comments by site

NZASM_RT_001: Culvert Springs Geduld; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

03.08 (Left): The main facade of the first Krugersdorp Station (NZASM_RT_16, Mohale City). This iconic building, is one of the jewels of the NZASM heritage in South Africa, and despite many alterations, still played a role in South Africa's rail infrastructure.

03.09 (Right): An unique four-unit row house in Du Plessis Street, Boksburg (NZASM_RT_005–008). These are the only such configuration of NZASM housing known to still be in existence.



NZASM_RT_002: Culvert Tweedy Road; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_RT_003: Culvert west of Boksburg; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_RT_004: Culvert east of Apex; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_RT_005: Boksburg East Station Row House Du Plessis Street House 1; Row houses; Associated with other remaining built structures along the original trajectory and at the Boksburg precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_006: Boksburg East Station Row House Du Plessis Street House 2; Row houses; Associated with other remaining built structures along the original trajectory and at the Boksburg

precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_007: Boksburg East Station Row House Du Plessis Street House 3; Row houses; Associated with other remaining built structures along the original trajectory and at the Boksburg precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_008: Boksburg East Station Row House Du Plessis Street House 4; Row houses; Associated with other remaining built structures along the original trajectory and at the Boksburg precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_009: Victoria Street Bridge; Bridge Flat girder single span; On the original trajectory, still in use; A distinctive urban landmark feature.

NZASM_RT_010: Old Park Station; Railway station; Novel structure in the NZASM endeavour with a distinctive history of relocation and appropriation, presently of undesigned usage.

NZASM_RT_011: NZASM Park Station Clocks; Clock; Heritage object from the original NZASM endeavour. Current use is appropriate both in location and association. Any change in ownership of the building should trigger a heritage management plan for these heritage objects.

NZASM_RT_012: Cast Iron Letter Boxes from the NZASM Park Station; Letterbox; Heritage object from the original NZASM endeavour. Current use is appropriate both in location and association. Any change in ownership of the building should trigger a heritage management plan for these heritage objects;

NZASM_RT_013: Doornfontein Station Replica Gold Reef City; Railway station; Although a replica and hence lacks material authenticity, nevertheless, this serves in both alerting and reminding the general public of the NZASM endeavour through both its locality and public accessibility. Any future change in this status should be treated as requisite of a heritage action.

NZASM_RT_014: Culvert at Georgia; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.



03.10: One of two station clock from the NZASM Johannesburg Park Station (NZASM_RT_011). These have been remounted on the former Central South African Railways (CSAR) Headquarter Building in central Johannesburg. (Transnet Freight Rail)



NZASM_RT_015: Krugersdorp Station; Railway station; Associated with other remaining built structures along the original trajectory and at the Krugersdorp precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_016: Krugersdorp C Type Kruger Road 26; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Krugersdorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_RT_017: Krugersdorp C Type Kruger Road 25; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Krugersdorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.








Reflection

The amount of traffic initially exceeded all expectations. In the first year of operation three times the anticipated amount of goods had to be transported. From a modest coal transport line the railway system has developed to become the








transport lifeline of the Industrial Rand. These developmental pressures in its years of operation have all but obliterated any residue, hence making that which remains of even greater heritage significance and worthy of directed attention and preservation. An advantage is that this entire residue falls within the jurisdiction of a single Provincial Heritage Resources Authority, namely that of Gauteng, hence facilitating the potential for holistic and integrated heritage management.

03.11: An excellent example of a NZASM C-Type house at the Krugersdorp Station (NZASM_RT_016–017).




NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	Condition		Legislative Status	Heritage Authority Jurisdiction	
NZASM_RT	001	Culvert Springs Geduld	Culvert single span	Gauteng	Ekhuruleni Metropolitan Municipality	Springs	2012 09 16	-26,26513	28,421702	c.1897	Single span rough ashlar flat culvert with corrugated steel sheeting forming permanent shuttering to the concrete slab.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	002	Culvert Tweedy Road	Culvert single span	Gauteng	Ekhuruleni Metropolitan Municipality	Springs	2012 09 16	-26,2515	28,367	c.1897	Single span rough ashlar flat culvert with corrugated steel sheeting forming permanent shuttering to the concrete slab.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	003	Culvert West of Boksburg	Culvert single span	Gauteng	Ekhuruleni Metropolitan Municipality	Springs	2012 09 16	-26,2272	28,3525	c.1897	Single span rough ashlar flat culvert with corrugated steel sheeting forming permanent shuttering to the concrete slab.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	004	Culvert east of Apex	Culvert single span	Gauteng	Ekhuruleni Metropolitan Municipality	Brakpan	2012 09 16	-26,2272	28,3525	c.1897	Single span rough ashlar flat culvert with corrugated steel sheeting forming permanent shuttering to the concrete slab.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	005	Boksburg East Station Row House Du Plessis Street House 1	Row houses	Gauteng	Ekhuruleni Metropolitan Municipality	Boksburg	2016 04 07	-26,218347	28,262383	c.1897	Unusual brick-built quadruple cottage for unmarried staff. Corrugated iron saddle roof.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	006	Boksburg East Station Row House Du Plessis Street House 2	Row houses	Gauteng	Ekhuruleni Metropolitan Municipality	Boksburg	2016 04 07	-26,218347	28,262383	c.1897	Unusual brick-built quadruple cottage for unmarried staff. Corrugated iron saddle roof.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_RT	007	Boksburg East Station Row House Du Plessis Street House 3	Row houses	Gauteng	Ekhuruleni Metropolitan Municipality	Boksburg	2016 04 07	-26,218347	28,262383	c.1897	Unusual brick-built quadruple cottage for unmarried staff. Corrugated iron saddle roof.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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NZASM_RT	008	Boksburg East Station Row House Du Plessis Street House 4	Row houses	Gauteng	Ekhuruleni Metropolitan Municipality	Boksburg	2016 04 07	-26,218347	28,262383	c.1897	Unusual brick-built quadruple cottage for unmarried staff. Corrugated iron saddle roof.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_RT	009	Victoria Street Bridge	Bridge Flat girder single span	Gauteng	Ekhuruleni Metropolitan Municipality	Germiston	2016 04 07	-26,209864	28,160818	c.1897	Rough ashlar stone embankment abutments with concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_RT	010	Old Park Station	Railway station	Gauteng	City of Johannesburg Metropolitan Municipality	Johannesburg	2016 04 05	-26,199017	28,033821	c.1897	Linear cast iron portal platform canopy, composed in three arched bays along its length. Currently located atop an in-situ concrete substructure.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_RT	011	NZASM Park Station Clocks	Clock	Gauteng	City of Johannesburg Metropolitan Municipality	Johannesburg	2016 04 05	-26,199246	28,041877	c.1897	Glass fronted wall mounted station clocks in cast-iron casing, manufactured by TWA Kaiser of the Hague.	Good	Section 32 NHRA (Heritage object)	PHRA-Gauteng	
NZASM_RT	012	Cast Iron Letter Boxes from the NZASM Park Station	Letterbox	Gauteng	City of Johannesburg Metropolitan Municipality	Johannesburg	1905 06 07	-26,197336	28,041983	c.1897	Cast Iron pillar mail box, manufactured by De Pletterij in the Hague.	Good	Section 32 NHRA (Heritage object)	PHRA-Gauteng	
NZASM_RT	013	Doornfontein Station Replica Gold Reef City	Railway station	Gauteng	City of Johannesburg Metropolitan Municipality	Johannesburg	-26,237041	28,011657	n/a		Inaccurate replica of the NZASM Doornfontein Station.	Good	None	None	
NZASM_RT	014	Culvert at Georginia	Culvert single arched	Gauteng	City of Johannesburg Metropolitan Municipality	Georginia, Roodepoort	2016 05 24	-26,165385	27,884446	1891	Single span stone arched culvert with embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the steel superstructure is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance.</p>	Grade II Provincial Heritage Site	
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<p>These objects being part of the larger NZASM endeavour, fall under the generic NZASM statement of significance, but specifically are also unique extant examples of their type. Their importance lies in their associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; they have the potential to yield information for understanding; as objects they demonstrate principal characteristics; have particular aesthetic characteristics; demonstrate a high degree of technical achievement; have strong and special associations with both historic and contemporaneous communities; have a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
<p>This object being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
<p>This reconstruction replicates a type that was part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	None	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	

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NZASM_RT	015	Krugersdorp Station	Railway station	Gauteng	Mohale City Local Municipality	Krugersdorp	2016 04 05	-26,109353	27,770199	c.1897	Single storey brick built station building with prominent central gable.	Fair	Provincial Heritage Resource	PHRA-Gauteng	
NZASM_RT	016	Krugersdorp C Type Kruger Road 26	Semi-detached house	Gauteng	Mohale City Local Municipality	Krugersdorp	2016 04 05	-26,108877	27,769608	c.1897	Single storey chalet-style semi-dethatched double-cottage with central gable and corrugated sheet metal saddle roof.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_RT	017	Krugersdorp C Type Kruger Road 25	Semi-detached house	Gauteng	Mohale City Local Municipality	Krugersdorp	2016 04 05	-26,108925	27,769557	c.1897	Single storey chalet-style semi-dethatched double-cottage with central gable and corrugated sheet metal saddle roof.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	

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5

03.2 NZASM Southern Line (1886–1899)

Background to the Southern Line

The Southern Line served both Johannesburg and Pretoria. Its construction was driven by the ambitions of Cecil John Rhodes to have direct transport access between the goldmines of the Rand and the harbours in the British Colonial Cape. It served the political ambitions of Kruger's ZAR as a political and economic instrument of power.

The line connecting Johannesburg and Pretoria by way of Vereeniging to the then Cape Colony through the then Orange Free State Republic was commissioned in three sections:

Vaal River - Elandsfontein

Elandsfontein - Pretoria
Elandsfontein - Johannesburg
The contract for the earthworks, masonry and later also ballasting of the Pretoria - Elandsfontein section was awarded to AL Lawley; the Vaal River–Natalpruit sub-section of the Elandsfontein–Vaal River section was awarded to W Woodburn.

The Bridge over the Vaal River was jointly funded by both the Cape Government and the NZASM.

The Southern line followed the contours of the landscape and the even topography necessitated few cuttings, high embankments or culverts and bridges. Those built were in order to negotiate streams and rivers.

Of the most interesting structures is a stone arched viaduct over the Pinedene River in the vicinity of Olifantsfontein bearing the inscription of the Imperial Military Railways (IMR), probably indicating its repair during the Anglo-Boer War, as was done to many of the structures at the time.

Researchers' comments per site

NZASM_SL_001: Vaal River Bridge; Bridge Truss girder; On the original trajectory, appropriated and adaptively reused as a pipeline aquaduct; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_SL_002: 1 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, now defunct. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_003: 1 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, now defunct. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_004: 1 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, now defunct. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_005: 1 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, now defunct. Should any development occur, cognisance should be given to their heritage importance.

03.12 (Left): NZASM semi-detached staff housing in Reg Bodmer Street, Vereeniging (NZASM_SL_006, Emfuleni Local Municipality). Reg Bodmer Street contains a series of NZASM houses unique examples of their type.

03.13 (Right): The Klipspruit Bridge (NZASM_SL_019), seen from the stream side. NZASM infrastructure still in daily use and far better weathering than the later additions.





NZASM_SL_006: 5 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_007: 6 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_008: 7 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_009: 8 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_010: 9 Reg Bodmer Street; Semi-detached house; Associated with other remaining

built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_011: 10 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_012: 11 Reg Bodmer Street; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Vereeniging station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SL_013: Box Culvert north of Vereeniging; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_014: Large arched culvert north of Vereeniging; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_015: Small arched culvert north of Vereeniging; Culvert single arched; On the original

03.14: The Klipspruit Bridge (NZASM_SL_019), seen from the stream side. NZASM infrastructure still in daily use and structurally sounder than the later additions.

trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_016: Langkuil Spruit Bridge ruin; Bridge Flat girder single span; On the original trajectory, Defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SL_017: Arched culvert btw Lankuil Spruit and Klip River Bridge; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_018: Arched culvert at Blockhouse; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_019: Klip Spruit Bridge; Bridge Truss girder; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_020: Stone Arch Estate Culvert; Culvert single arched; On the original trajectory, Defunct; Serves as a community landmark in a gated village. Any changes must trigger a heritage action.

NZASM_SL_021: IMR Bridge; Culvert single arched; On the original trajectory, still in use;

Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SL_022: 6 Mile Spruit Bridge Irene; Bridge Plate girder single span; On the original trajectory, Defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SL_023: Large stone culvert over Eeufees Spruit; Culvert single arched; On the original trajectory. Defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SL_024: Large stone culvert Christina de Witt Drive; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.








Reflection

Much like the Rand Tram, this line, located in bustling Gauteng, has experienced continuous use and modernization, resulting in there being not much by way of physical residue. This makes that which remains of even greater heritage significance and worthy of directed attention and preservation. An advantage is that all this residue falls within the jurisdiction of a single Provincial Heritage Resources Authority, namely that of Gauteng, hence facilitating the potential for holistic and integrated heritage management.








03.15: A beautiful example of a large arched culvert on the Southern Line is to be found north of Vereeniging (NZASM_SL_014).










NUMBER	IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS			
	Line ID	No.	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction	
NZASM_SL	001	Vaal River Bridge	Bridge Truss girder	Gauteng and Free State	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,6821	27,9379	1892	Remaining piers and abutments of the NZASM Vaal River Bridge, converted to carry a pipeline.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng Free State-HRA
NZASM_SL	002	1 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,673445	27,93652	1896	Ruin of single storey brick built double-cottage.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	003	2 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,673583	27,936507	1896	Ruin of single storey brick built double-cottage.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	004	3 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,673684	27,936472	1896	Ruin of single storey brick built double-cottage.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	005	4 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,673823	27,936456	1896	Ruin of single storey brick built double-cottage.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	006	5 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,674604	27,936287	1896	Single storey brick built double-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	007	6 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26,674605	27,936271	1896	Single storey brick built double-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. Even the reappropriation of the NZASM substructure of contemporary use as bearing a pipeline it takes on a unique of inter-Provincial significance.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SL	008	7 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.674818	27.936223	1896	Single storey brick built double-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	009	8 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.674904	27.93621	1896	Single storey brick built double-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	Unknown
NZASM_SL	010	9 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.675098	27.936154	1896	Single storey brick built triple-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	011	10 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.675199	27.936138	1896	Single storey brick built triple-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	012	11 Reg Bodmer Street	Semi-detached house	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.675283	27.936117	1896	Single storey brick built triple-cottage with corrugated iron roof on timber trusses.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	013	Box Culvert north of Vereeniging	Culvert single span	Gauteng	Emfuleni Local Municipality	Vereeniging	2016 04 07	-26.63987	27.957038	1896	Single span rough ashlar flat culvert with corrugated steel sheeting forming permanent shuttering to the concrete slab.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SL	014	Large arched culvert north of Vereeniging	Culvert single arched	Gauteng	Midvaal Local Municipality	Vereeniging	2016 04 07	-26.6196	27.9723	1896	Single span stone arched culvert with embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare example of its row-house type.</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	Structure (General)			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SL	015	Small arched culvert north of Vereeniging	Culvert single arched	Gauteng	Midvaal Local Municipality	Vereeniging	2016 04 07	-26,6092	27,9813	1896	Single span stone arched culvert with embankment walls	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	016	Langkuil Spruit Bridge ruin	Bridge Flat girder single span	Gauteng	Midvaal Local Municipality	Meyerton	2016 04 07	-26,5415	28,0166	1896	Rough ashlar stone embankment abutments with concrete caps that formerly carried a girder steel truss.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	017	Arched culvert between Lankuil Spruit and Klip River Bridge	Culvert single arched	Gauteng	Midvaal Local Municipality	Meyerton	2016 04 07	-26,4808	28,0657	1896	Single span stone arched culvert with embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	018	Arched culvert at Blockhouse	Culvert single arched	Gauteng	Midvaal Local Municipality	Henley on Klip	2016 04 07	-26,4704	28,0706	1896	Single span stone arched culvert with embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	019	Klip Spruit bridge	Bridge Truss girder	Gauteng	Midvaal Local Municipality	Daleside	2016 04 07	-26,4125	28,0883	1896	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	020	Stone Arch Estate Culvert	Culvert single arched	Gauteng	Ekhuruleni	Germiston	2016 04 07	-26,2572	28,167	1896	Single span stone arched culvert with embankment walls.	Good	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	021	IMR Bridge	Culvert single arched	Gauteng	City of Tshwane	Irene	2016 04 07	-25,919997	28,230481	1896	Large span stone arched viaduct with embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is highly valued as a heritage structure by its local associated community.</p>	Grade II Provincial Heritage Site	
<p>This structure as constructed by the Imperial Military Railways in the time of their wartime occupation of the NZASM system, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the reconstructed viaduct is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance. It is unique in being the only structure bearing the insignia of the IMR in its keystone.</p>	Grade II Provincial Heritage Site	

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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	Condition			Legislative Status	Heritage Authority	Jurisdiction
NZASM_SL	022	6 Mile Spruit Bridge Irene	Bridge Plate girder single span	Gauteng	City of Tshwane	Irene	2016 04 07	-25,889385	28,224038	1896	Rough ashlar stone embankment abutments with concrete caps that formerly carried a steel superstructure.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	023	Large stone culvert over Eufees Spruit	Culvert single arched	Gauteng	City of Tshwane	Pretoria	2016 04 07	-25,782464	28,186889	1896	Large rough ashlar stone arched culvert.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng	
NZASM_SL	024	Large stone culvert Christina de Witt Drive	Culvert single arched	Gauteng	City of Tshwane	Pretoria	2016 04 07	-25,776694	28,193593	1896	Large rough ashlar stone arched culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng	

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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03.3 NZASM Eastern Line (1887–1899)

Background to the Eastern Line

The ambitious and crowning achievement of the *Zuid-Afrikaansche Republiek* was the construction and commissioning of the *Oosterlijn* from Pretoria, through Middelburg, Waterval Boven, Waterval Onder, Nelspruit, Komatipoort and on to Lorenzo Marques (now Maputo) harbour.

While the express purpose for the formation of the NZASM in 1887 was to build this line, there were delays on the Portuguese side of the border. The McMurdo's concession had first to be cancelled and the Portuguese Government take over the contract before progress was made. When built, this section provided for the transport for the materials from the harbour to the ZAR.

The Eastern Line was divided into twelve sections and each contract awarded separately. The NZASM were hesitant to engage local firms for the difficult first section. Both for ensuring that the job get done and for Dutch prestige, a home company was appointed. It was Van Hattum & Co, being JC Van

Hattum, J Kooy and P Langeveld, of proven ability having done work in Argentina and on the Panama Canal. They were appointed to four sections from the Portuguese East Africa (Mozambique) border, a distance of some 100km.

Clark & Wirth were engaged to do the earthworks of some 3km from the border to the Komati River. In that time the foreign workers started arriving. The climate and disease were their natural enemy and many were to die of fever or accident. Through friction between Van Hattum & Co and W Verwey, the NZASM's chief engineer, their work was curtailed to just beyond Crocodile Poort, and Walker & Co appointed in 1891 to the contract of the 11km to Nelspruit. James Butler & Co (James Butler and George Pauling) undertook the difficult task of the Crocodile Poort construction, in sterling fashion.

With the completion of the Southern Line materials could more readily be transported and work could commence on the western section

03.16 (left): The iconic Bridge over the Komati River (NZASM_EL_001, Ehlanzeni District Municipality). This large multi-span bridge still serves as the last link in the railway line connecting South Africa with Mozambique and epitomises the NZASM endeavour and all–South Africans and foreigners who contributed to its realisation.

03.17 (right): The graves of NZASM engineers Van der Meulen and Ysendijk in Komatipoort (NZASM_EL_002), both killed by malaria.



simultaneously with that in the east. Warren & Royce undertook the challenging task of the bridges, tunnel and rack-rail section between Waterval Onder and Waterval Boven.

Researchers' comments per site

NZASM_EL_001: Bridge over the Komati River; Bridge Truss girder; On the original trajectory, still in use; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_EL_002: NZASM Graves; Grave; Situated in an abandoned section of the local graveyard and neglected; Needs local signage to indicate presence and importance; Interpretative material would enhance visibility and contextualise importance.

NZASM_EL_003: Komatipoort Single Men's Quarters; Hostel; Associated with other remaining built structures along the original trajectory and at the Komatipoort station precinct; Could be adaptively re-used to suit current circumstances and needs.

NZASM_EL_004: Komatipoort Recreation Hall; Recreation hall; Associated with other remaining built structures along the original trajectory and at the Komatipoort station precinct; Has current viability since being adaptively re-used.

NZASM_EL_005: Komatipoort Single Men's Quarters; Row houses; Associated with other remaining built structures along the original trajectory and at the Komatipoort station precinct; Has current viability since being adaptively re-used

NZASM_EL_006: Hectorspruit Cottage; Cottage; Associated with other remaining built structures along the original trajectory and at the Hectorspruit station precinct; Has current viability since being adaptively re-used.

NZASM_EL_007: Hectorspruit Station (former); Cottage; Associated with other remaining built structures along the original trajectory and at the Komatipoort station precinct; Has current viability since being adaptively re-used.

NZASM_EL_008: Hectorspruit Station Water tank; Water tank; Original feature on the original trajectory; Could be dismantled and relocated in a living museum and put to original use. Requires restoration and preservation.

NZASM_EL_009: Bridge west of Hectorspruit; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_010: Culvert west of Hectorspruit; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_011: Bridge west of Hectorspruit; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

03.18: This NZASM Singles Quarters building in Komatipoort (NZASM_EL_003) urgently requires a new function.





03.19 (Top): The NZASM station at Alkmaar, Mpumalanga (NZASM_EL_034) is an excellent example of climatically appropriate design from the NZASM drawing office.

03.20 (Bottom Left): The scorched foundation stone of the NZASM Headquarters in Emgwenya (Waterval Boven, NZASM_EL_62), formerly protected behind a glass plate, exposed by the fire of early-2016.

03.21 (Bottom Right): A former doctor's residence in Waterval Boven which today serves as a creche (NZASM_EL_092).

NZASM_EL_012: Rondavels Malelane; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Malelane station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_013: Malelane Station; Station; Associated with other remaining built structures along the original trajectory and at the Malelane station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance.

NZASM_EL_014: Bridge Salt Creek; Bridge; On the original trajectory, defunct; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_015: Culvert West of Salt Creek; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_016: Cottage Kaapmuiden; Cottage; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance.

NZASM_EL_017: Rondavels Kaapmuiden; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.



NZASM_EL_018: Cottage Kaapmuiden; Cottage; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance.

NZASM_EL_019; Villa Kaapmuiden; Cottage; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance.

NZASM_EL_020: Station Kaapmuiden; Cottage; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance. Interpretative material would enhance visibility and contextualise importance.

NZASM_EL_021: Flag Room Kaapmuiden; Flag Room; Associated with other remaining built structures along the original trajectory and at the Kaapmuiden station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to its heritage importance.

03.22: (top): A cast iron water tank, manufactured by the *Machinefabriek, Breda* (the Netherlands) in 1891, located on a steel tank stand at Pan Station (NZASM_EL_120) is a uniquely preserved piece of industrial archaeology dating to the end of the C19.

03.23: (bottom): The Klein Olifantsrivier Bridge (NZASM_EL_121) may seem small for a distance, but is an imposing structure when viewed from closeup





NZASM_EL_022: Bridge Crocodile River; Bridge Truss girder; On the original trajectory, now defunct and ruinous.

NZASM_EL_023: Retaining Wall Crocodile Poort; Retaining wall; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_024: Bridge Crocodile Poort; Bridge Flat girder double span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_025: Culvert Crocodile Poort; Culvert Single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_026; Bridge Crocodile Poort 2; Bridge Flat girder double span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_027: Culvert west of Crocodile Poort Station; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_028: Bridge West of Crocodile Poort Station; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_029: Bridge over Karino; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_030: Bridge over the Nelspruit; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_031: Bridge West Cairn; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_032: Bridge east of Alkmaar; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_033: Bridge at Alkmaar; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_034: Station Alkmaar; Station; Associated with other remaining built structures along the original trajectory and at the Alkmaar station precinct; Could be adaptively re-used to suit current circumstances and needs.

NZASM_EL_035: House Alkmaar 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Alkmaar station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_036: House at Alkmaar 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Alkmaar station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

03.24: A number of unique and important NZASM structures remain in use in the Pretoria Station Precinct, such as this recently renovated NZASM Telegraphy Office (NZASM_EL_145). (Simelane, S. 2016)

NZASM_EL_037: Bridge West of Alkmaar; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_038: Station Schagen; Station; Associated with other remaining built structures along the original trajectory; Could be adaptively re-used to suit current circumstances and needs.

NZASM_EL_039: Elandshoek Station; Station; Associated with other remaining built structures along the original trajectory; Could be adaptively re-used to suit current circumstances and needs

NZASM_EL_040: Bridge Ngodwana; Bridge Flat girder double span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_041: House Ngodwana; Cottage; Associated with other remaining built structures along the original trajectory and at the Alkmaar station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_042: Flat Culvert east of Hemlock; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_043: Bridge east of Waterval Onder; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_044: Culvert east of Waterval Onder; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_045: Culvert east of Waterval Onder; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_EL_046: Culvert east of Waterval Onder; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_047: Bridge east of Waterval Onder; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_EL_048: Culvert east of Waterval Onder; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_049: Culvert east of Waterval Onder; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_050: Culvert east of Waterval Onder; Culvert triple arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_051: Black Eagle Bridge; Bridge Plate girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_052: Culvert east of Waterval Onder; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_053: Cottage Waterval Onder; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Onder station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_054: Hospital Waterval Onder; Hospital; Associated with other remaining built structures along the original trajectory and at the Waterval Onder station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_055: Hospital 2 Waterval Onder; Hospital; Associated with other remaining built structures along the original trajectory and at the Waterval Onder station precinct; Important built residue, still in use. Sould any development occur, cognisance should be given to their heritage importance.

NZASM_EL_056: Toilet Block Waterval Onder; Hospital; Associated with other remaining built structures along the original trajectory and at the Waterval Onder station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_057: Waterval Onder Ruin foundations; Building - Unknown function;

Associated with other remaining built structures along the original trajectory and at the Waterval Onder station precinct; Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_058: Bridge west of Waterval Onder; Bridge; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_059: Five Arch Bridge; Bridge Arched; On the original trajectory, now defunct; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_EL_060: Gangers Cottage east of Waterval Boven; Cottage; On the original trajectory, now defunct; Important built residue. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_061: Eastern Line Tunnel; Tunnel; On the original trajectory, now defunct; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_EL_062: NZASM Eastern Line Head Quarters; Office; Important landmark in the historic Waterval Boven, now defunct; Important built residue. Should any development occur, cognisance should be given to their heritage importance. Recently razed by fire, this structure needs an immediate Heritage Management Plan, declaration and action plan.

NZASM_EL_063: Waterval Boven Gangers Cottage;

Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_064: Third Avenue Hospital Boven Cottage 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_065: Third Avenue Hospital Boven Cottage 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_066: 15 Third Avenue; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_067: 17 Third Avenue; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_068: 19 Third Avenue; Cottage;

03.25: The NZASM Printed Matter Store (NZASMEL_148) may have been completed only after the British invasion of Pretoria. It is still in function serving passenger rail services.



Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_085: Cottage 4 Fourth Av; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_086: Old Age Home; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_087: Cottage 5 4th Av 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_088: Cottage 5 4th Av 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_089: Cottage Corner 3rd and 5th; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_090: Cottage co 1st Av. and 5th Str. 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_091: Cottage co 1st Av. and 5th Str; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_092: Nursery school 5th street; Cottage; Associated with other remaining built

structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_093: Doctors Residence 1st Ave; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_094: Cottage Park Avenue; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_095: Toilet to Cottage Park Avenue; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_096: NZASM Memorial Waterval Boven; Memorial; Commemorative and memorialising of the NZASM endeavour installed by Interested and Affected Parties.

NZASM_EL_097: 3rd Ave; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_098: Shamrock Inn; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_099: Waterval Boven Library; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_100: Cottage co 4th Ave. and 5th Str. 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development

occur, cognisance should be given to their heritage importance.

NZASM_EL_101: Cottage co 4th Ave. and 5th Str. 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_102: Cottage 5 4th avenue 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_103: Cottage 5 4th avenue 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_104: Cottage 6 4th avenue 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_105: Cottage 6 4th avenue 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_106: Cottage 7 4th avenue 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_BBL_107: Cottage 7 4th avenue 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_108: Station Waterval Boven; Station; Associated with other remaining built structures along the original trajectory and at the Waterval Boven precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_109: Culvert east of Goedgeluk; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_110: Culvert west of Goedgeluk; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_EL_111: Bridge west of Goedgeluk; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_EL_112: Leeuwspruit Bridge; Bridge Flat

03.26: NZASM Court at Salvokop (NZASM_EL_150), one of the most well-known of all NZASM complexes has, since the photograph was taken in 2011, been incorporated into the new Statistics South Africa headquarters.



girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_EL_113: Cottage 1 Station Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_114: Cottage 2 Station Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_115: Cottage 3 Station Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_116: Cottage 4 Station Str; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_117: Machadodorp Gangers Cottage; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_118: Cottage Pan Sta; Cottage; Associated with other remaining built structures along the original trajectory and at the Machadodorp Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_119: Pan Station; Station; Associated with other remaining built structures along the original trajectory and at the Pan Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_120: Pan Station Water tank; Water tank; Original feature on the original trajectory;

Requires restoration and preservation. Could be dismantled and relocated in a living museum and put to original use.

NZASM_EL_121: Klein Olifants River Bridge; Bridge Combined; On the original trajectory, still in use; A landmark feature known to train enthusiasts and railway photographers. Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_122: Middelburg Station; Station; On the original trajectory, still in use; As a declared Provincial Heritage Resource this needs interpretative signage so as to highlight its importance and promote its tourism potential.

NZASM_EL_123: Middelburg Cottage 1; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_124: Middelburg Cottage 2; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_125: Middelburg Cottage 3; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_126: Middelburg Cottage 4; Bridge; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_127: Middelburg Cottage 5; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_128: Middelburg Cottage 6; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_129: Middelburg Cottage 7; Cottage; Associated with other remaining built structures

along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_130: Middelburg Cottage 8; Cottage; Associated with other remaining built structures along the original trajectory and at the Middelburg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_131: Groot Olifants River Bridge; Bridge Inverted truss girder; On the original trajectory, still in use; A landmark feature known to train enthusiasts and railway photographers. Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_132: Culvert west of Groot Olifants River Bridge; Culvert single span; On the original trajectory, now defunct; Important built residue. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_133: Three Arch Culvert btw Olifants River Bridge and Station; Culvert triple arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_134: Culvert Olifants River Station; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_EL_135: Gangers Cottage Olifants River Station; Cottage; On the original trajectory, now defunct; Important built residue. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_136: Olifants River Station Water Tank Pylon; Water tank stand; On the original trajectory, now defunct; Important built residue. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_137: Cottage1 Clewer; Cottage; Associated with other remaining built structures along the original trajectory and at the Clewer Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_138: Station Clewer; Station; Associated with other remaining built structures along the original trajectory and at the Clewer Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_139: Cottage 2 Clewer; Cottage; Associated with other remaining built structures along the original trajectory and at the Clewer Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_140: Fish belly Bridge Saalklap Spruit; Bridge Fish belly girder truss; On the original trajectory, now defunct; Exceptionally important built residue. Should any development occur or threat emerge, its heritage importance is an imperative.

NZASM_EL_141: Wilge Rivier Station; Station; Associated with other remaining built structures along the original trajectory and at the Wilge Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_142: Culvert west of Wilge River station; Culvert single arched; On the original trajectory, now defunct; Exceptionally important built residue. Should any development occur or threat emerge, its heritage importance is an imperative.

NZASM_EL_143; Bronkhorstspruit Bridge; Bridge; On the original trajectory, now defunct; Exceptionally important built residue. Should any development occur or threat emerge, its heritage importance is an imperative.

NZASM_EL_144: Elandsport Bridge; Bridge; On the original trajectory, now defunct; Exceptionally important built residue. Should any development occur or threat emerge, its heritage importance is an imperative.

NZASM_EL_145: Pretoria Station Telegraph Office; Office; Associated with other remaining built structures along the original trajectory and at the Pretoria Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_146: Pretoria Station NZASM Goods Store; Office; Associated with other remaining built structures along the original trajectory and at the Pretoria Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_147: Pretoria Station NZASM Shed Gautrain Station; Shed; Associated with other remaining built structures along the original trajectory and at the Pretoria Station precinct; Important built residue, still in use. Should any

development occur, cognisance should be given to their heritage importance.

NZASM_EL_148: Pretoria Station Printed Matter Store; Office; Associated with other remaining built structures along the original trajectory and at the Pretoria Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_149: Pretoria Station Station Master's House; Cottage; Associated with other remaining built structures along the original trajectory and at the Pretoria Station precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

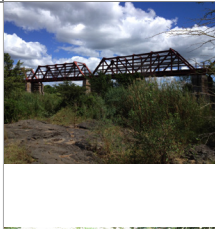




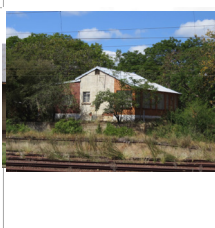
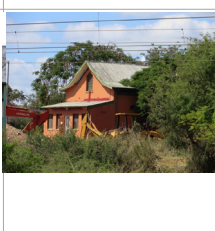
NZASM_EL_150: NZASM Court Houses; Staff compound; Associated with other remaining built structures along the original trajectory and at the Salvokop Heritage precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_EL_151: NZASM Court School; School; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.








Reflection

The Eastern Line epitomizes the NZASM endeavour. It traversed the inhospitable, disease-ravaged territory of the Lowveld, hence claiming many lives. It is the longest line, took the longest period to complete (six years), challenged both political will and technical expertise, but remains in constant use until this day. The greatest number of declared Provincial Heritage Resources (once National Monuments) lie on this trajectory which most logically make for its declaration and management as a serial entity. In giving access to the Lowveld to visitors, it holds great tourism potential; an imperative for any heritage actions. Much of the extant residue is residential, although often lacking in maintenance, and many remain occupied. This aspect makes for an important heritage consideration in the development of any heritage actions and should be central to informing the strategic development plans of the particular responsible local authorities. Many are part of ensembles or situate proximate to other heritage precincts, for example that in Waterval Boven, which offers opportunity as vector for (urban) economic development.








NUMBER	IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS				
	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL		001	Bridge over the Komati River	Bridge Truss girder	Mpumalanga	Ehlanzeni District Municipality	Komatipoort	2012 04 03	-25,4447	31,9597	1891	Multi-span steel girder bridge. Rough ashlar stone embankment abutments and piers with concrete caps and box girder of later date.	Good	Provincial Heritage Resource	MHRA
NZASM_EL		002	NZASM Graves	Grave	Mpumalanga	Ehlanzeni District Municipality	Komatipoort	2016 04 15	-25,4389	31,9624	1888	Graves in graveyard. Wrought iron fenced graves with marble tomb stones.	Poor	Section 36 NHRA (Burial grounds and Graves)	MHRA
NZASM_EL		003	Komatipoort Single Men's Quarters	Hostel	Mpumalanga	Ehlanzeni District Municipality	Komatipoort	2016 04 15	-25,4356	31,9531	1894	Single storey saddle-roofed single-men's quarters. Rough ashlar stone plinths with plastered brick walls, timber doors and windows and tiled roof (of later date). Steep enclosed with mosquito netting.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		004	Komatipoort Recreation hall	Recreation hall	Mpumalanga	Ehlanzeni District Municipality	Komatipoort	2016 04 15	-25,4337	31,9538	1894	Pyramid roofed recreation building, brick walled with wrap-around stoep. Ventilated roof void. Corrugated iron roof.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		005	Komatipoort Single Men's Quarters	Row houses	Mpumalanga	Nkomazi Local Municipality	Komatipoort	2016 04 15	-25,432	31,9538	1894	Single storey saddle-roofed single-men's quarters. Plastered brick walls, doors and windows replaced. Corrugated sheet metal roof. Steep remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		006	Hectorspruit Cottage	Cottage	Mpumalanga	Nkomazi Local Municipality	Hectorspruit	2016 04 15	-25,4371	31,6759	1894	Single storey saddle roofed cottage, plastered brick walls on rough ashlar plinth and corrugated sheet meta saddle roof covered. Steep enclosed and lean-to additions, both in face brick. Ventilated roof cavity through grill in top of gable walls.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		007	Hectorspruit Station (former)	Station	Mpumalanga	Nkomazi Local Municipality	Hectorspruit	2016 04 15	-25,4374	31,6758	1898	Single storey saddle roofed station building, plastered brick walls on rough ashlar plinth with corrugated sheet metal saddle roof. Front vestibule enclosed. Roof cavity ventilated through gable walls.	Fair	Section 34 NHRA (60 year clause)	MHRA

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The piers are constructed of imported Belgian Blue-stone. While the steel superstructure is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance. A unique significant feature is the commemorative stone. (Government Gazette Notice 1091 of 1991: 'The two abutments and six piers of the historic NZASM railway bridge, together with five meters of surrounding land, situated on portions of the following properties: (i) The Komatipoort Station Railway Reserve 161, situated in Registration Division JU, in the District of Barberton. Certificate of Registered State Title 11834/1970, dated 24 April 1970; and (ii) Portion 6, named Janalet, of the farm Lebombo 186, situated in the Registration Division JU, Transvaal. Deed of Transfer T15146/1981, dated 19 March 1981.)</p>	Grade II Provincial Heritage Site	
<p>These graves, being reminders of the larger NZASM endeavour, fall under the generic NZASM statement of significance, but specifically commemorates specifically personages who died in the planning of the Eastern Line. Their importance lies in their associations with South Africa's community, heritage, and are considered uncommon, rare and endangered; they have the potential to yield information for understanding; have particular aesthetic characteristics; have strong and special associations with both historic and contemporaneous communities; have a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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	Line ID	No.	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	Structure (General)			Condition	Legislative Status
NZASM_EL	008	Hectorspruit Station Water tank	Mpumalanga	Nkomazi Local Municipality	Hectorspruit	2016/04/15	-25,4371	31,6759	1894		Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	009	Bridge west of Hectorspruit	Mpumalanga	Nkomazi Local Municipality	Hectorspruit	2016/04/15	-25,4554	31,652	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	010	Culvert west of Hectorspruit	Mpumalanga	Nkomazi Local Municipality	Hectorspruit	2016/04/15	-25,4583	31,6341	1894	Single barrel-vaulted rough ashlar culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	011	Bridge west of Hectorspruit	Mpumalanga	Nkomazi Local Municipality	Malelane	2016/04/15	-25,4609	31,6141	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	012	Rondavels Malelane	Mpumalanga	Nkomazi Local Municipality	Malelane	2016/04/15	-25,4897	31,5095	1894	Single storey rondavel originally constructed for black employees. Segmented brick walls, with timber sash windows and sandstone lintels. Roof structure and finish altered over time. Extensions in the form of brick walled, sheet-metal roofed lean-tos	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	013	Malelane Station	Mpumalanga	Nkomazi Local Municipality	Malelane	2016/04/15	-25,4896	31,5096	1898	Single storey saddle roofed station building, plastered brick walls with corrugated sheet metal saddle roof covered. Front vestibule enclosed and lean-to roofs added to the side. Roof cavity ventilated through gable walls. Still in service as station.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	014	Bridge Salt Creek	Mpumalanga	Nkomazi Local Municipality	Malelane	2016/04/15	-25,5066	31,459	1894	Single span rough ashlar built plate girder bridge. Steel spans removed and bridge abandoned.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the concrete steel superstructure is of a later date, it retains the function of the original as a heritage resource.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude			Longitude	Structure (General)	Condition	Legislative Status
NZASM_EL		015	Culvert west of Salt Creek	Culvert single span	Mpumalanga	Nkomazi Local Municipality	Malelane	2016 04 15	-25,5068	31,4537	1894	Single barrel-vaulted rough ashlar culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		016	Cottage Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,532	31,3345	1894	Single storey saddle roofed cottage, brick walls on rough ashlar plinth with corrugated sheet metal saddle roof covered. Stoep part-remodelled. Addition to the back of the cottage both in face brick. Doors and windows replaced. Ventilated roof cavity through grill in top of gable walls.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		017	Rondavels Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5334	31,3323	1894	Two single storey rondavels originally constructed for black employees. Segmented brick walls, with timber sash windows, since replaced with steel. Roof structure and finish altered over time.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		018	Cottage Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5334	31,3323	1894	Unique double-roofed NZASM cottage. Single storey saddle roofed cottage, brick walls on rough ashlar plinth with corrugated sheet metal double saddle roof. Stoep part-remodelled. Addition to the back of the cottage both in face brick. High level of original materials and fittings present.	Derelict	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		019	Villa Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5332	31,3323	1894	Single storey hipped roofed cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof. Wrap around stoep. Highly probable that this originally had a double-roof. Stoep part-remodelled. High level of material authenticity.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		020	Station Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5333	31,3314	1894	Large island-type station, consisting of a large linear saddle roof spanning over a consecutive series of square pavilions. Originally face brick, the station has since been much remodelled, the walls also plastered. A unique in-tact example of a NZASM platform station.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		021	Flag Room Kaapmuiden	Bridge	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,533	31,3319	1894	Single storey saddle roofed building; brick walls on rough ashlar plinth covered with corrugated sheet metal roof. Much remodelled. Original face brick plastered. Possibly originally a flag room, but more probably ablutions.	Good	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL	022	Bridge Kaap River	Bridge Truss girder	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,542	31,316	1894	Multi-span steel girder bridge. Rough ashlar stone embankment abutments and piers with concrete caps. All steel girders removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	023	Retaining Wall Crocodile Poort	Retaining wall	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,520662	31,236202	1894	Rough ashlar stone retaining wall.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	024	Bridge	Bridge Flat girder double span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Kanyamazane	2016 04 15	-25,519578	31,231068	1894	Double span rough ashlar constructed bridge, original steel spans replaced.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	025	Culvert	Culvert single arched	Mpumalanga	Nkomazi Local Municipality	Kanyamazane	2016 04 15	-25,51753	31,228021	1894	Single barrel-vaulted rough ashlar culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	026	Bridge Crocodile Poort 2	Bridge Flat girder double span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Kanyamazane	2016 04 15	-25,516102	31,226213	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	027	Culvert west of Crocodile Poort Station	Culvert single arched	Mpumalanga	Nkomazi Local Municipality	Kanyamazane	2016 04 15	-25,4898	31,1577	1894	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	028	Bridge west of Crocodile Poort Station	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Kanyamazane	2016 04 15	-25,4875	31,1518	1894	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and plate steel girder of later date. shock absorb arches repaired with concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL		029	Bridge over Karino	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Karino	2016.04.14	-25,4724	31,0968	1894	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and plate steel girder of later date. shock absorb arches repaired with concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		030	Bridge over the Nelspruit	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Nelspruit	2016.04.14	-25,4623	30,9501	1894	Rough ashlar stone embankment abutments with shock absorb arches, stone piers, concrete caps and plate steel girder of later date. shock absorb arches repaired with concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		031	Bridge west Cairn	Bridge	Mpumalanga	Nkomazi Local Municipality	Nelspruit	2016.04.14	-25,4454	30,8861	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		032	Bridge east of Alkmaar	Bridge Plate girder single span	Mpumalanga	Nkomazi Local Municipality	Nelspruit	2016.04.14	-25,444004	30,854572	1894	Rough ashlar stone embankment abutments concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		033	Bridge at Alkmaar	Bridge Plate girder single span	Mpumalanga	Nkomazi Local Municipality	Nelspruit	2016.04.14	-25,4488	30,8333	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		034	Station Alkmaar	Station	Mpumalanga	Nkomazi Local Municipality	Alkmaar	2016.04.14	-25,4414	30,8255	1898	Single storey double saddle roofed station building, plastered brick walls with corrugated sheet metal saddle roof covered. Front stoep enclosed and platform entrance remodelled. High level of original material authenticity with much original fabric remaining, including encaustic tiles, timber moulding, ceilings. Abandoned and fast decaying.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		035	House Alkmaar 1	Cottage	Mpumalanga	Nkomazi Local Municipality	Alkmaar	2016.04.14	-25,4418	30,8257	1894	Single storey ventilated hipped roofed cottage, brick walls on brick plinth and covered with corrugated sheet metal roof. Wrap around stoep. Stoep part-remodelled. Roof cavity ventilated through openings between stoep roof and main roof.	Poor	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL		036	House at Alkmaar 2	Cottage	Mpumalanga	Nkomazi Local Municipality	Alkmaar	2016.04.14	-25,4418	30,8253	1894	Single storey ventilated hipped roofed cottage, brick walls on brick plinth and covered with corrugated sheet metal roof. Wrap around stoep. Steep part-remodelled. Roof cavity ventilated through openings between stoep roof and main roof.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		037	Bridge west of Alkmaar	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Alkmaar	2016.04.14	-25,439	30,8184	1894	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		038	Station Schagen	Station	Mpumalanga	Nkomazi Local Municipality	Schagen	2016.04.14	-25,4303	30,7932	1894	Single storey saddle roofed station building, plastered brick walls with corrugated sheet metal saddle roof covered. Front stoep enclosed and lean-to roofs added to the back. Roof cavity ventilated through gable walls. High level of original material authenticity but derelict.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		039	Elandshoek Station	Station	Mpumalanga	Nkomazi Local Municipality	Elandshoek	2007.11.28	-25,504458	30,700429	1894	Single storey double saddle roofed station building, rough ashlar walls covered by with corrugated sheet metal saddle roof. Front stoep enclosed and platform entrance remodelled. High level of original material authenticity with much original fabric remaining, including encaustic tiles, timber moulding, ceilings. Abandoned and fast decaying.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		040	Bridge Ngodwana	Bridge Flat girder double span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Ngodwana	2016.04.14	-25,5715	30,6604	1894	Double span rough ashlar constructed bridge, original steel spans replaced.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		041	House Ngodwana	Cottage	Mpumalanga	Nkomazi Local Municipality	Ngodwana	2016.04.14	-25,587	30,6347	1894	Single storey ventilated hipped roofed cottage, brick walls on brick plinth and covered with corrugated sheet metal roof. Wrap around stoep. Steep part-remodelled. Roof cavity ventilated through openings between stoep roof and main roof.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		042	Flat Culvert east of Hemlock	Culvert double span	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016.04.14	-25,5981	30,5995	1894	Low stone-built double box-culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL		043	Bridge east of Waterval Onder	Bridge Plate girder single span	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,5985	30,5947	1894	Rough ashlar stone embankment abutments concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		044	Culvert east of Waterval Onder	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,602	30,5859	1894	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		045	Culvert east of Waterval Onder	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,6045	30,5496	1894	Single barrel-vaulted rough ashlar culvert. Remedial repairs in concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		046	Culvert east of Waterval Onder	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,6042	30,5422	1894	Single barrel-vaulted rough ashlar culvert. Remedial repairs in concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		047	Bridge east of Waterval Onder	Bridge Plate girder single span	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,6166	30,5227	1894	Rough ashlar stone embankment abutments concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		048	Culvert east of Waterval Onder	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,616	30,5008	1894	Single barrel-vaulted rough ashlar culvert. Bracing added.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		049	Culvert east of Waterval Onder	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016 04 14	-25,608	30,4805	1894	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the steel superstructure is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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	Line ID	No.	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Structure (General)	Condition	Legislative Status
NZASM_EL	050	Culvert east of Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Ngodwana	2016.04.14	-25,6079	30,4806	1894	Triple barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	051	Black Eagle Bridge	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2013.01.15	-25,6102	30,4302	1894	Rough ashlar stone embankment abutments concrete caps and plate steel girder of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	052	Culvert east Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016.04.14	-25,6254	30,3985	1894	Low stone-built double box-culvert.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	053	Cottage Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016.04.14	-25,647	30,384	1896	Single storey saddle roofed cottage, brick walls covered with corrugated sheet metal roof. Steep enclosed and facades plastered. Doors and windows replaced. Ventilated roof cavity through top of gable ends.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	054	Hospital Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016.04.14	-25,6472	30,3838	1896	Single storey hipped roofed hospital, plastered brick walls and covered with corrugated sheet metal roof. Roof cavity ventilated through openings between stoep roof and main roof. Wrap around stoep. Stoep remodelled. Currently serves as private dwelling.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	055	Hospital 2 Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016.04.14	-25,6477	30,3827	1896	Single storey hipped roofed hospital, plastered brick walls and covered with corrugated sheet metal roof. Roof cavity ventilated through openings between stoep roof and main roof. Wrap around stoep. Stoep remodelled. Currently serves as contractors' site office.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	056	Toilet Block Waterval Onder	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016.04.14	-25,647316	0,383087	1896	Single storey saddle roofed building; brick walls covered with corrugated sheet meta roof. Original face brick plastered. Probably originally ablution facilities.	Derelict	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL		057	Waterval Onder Ruin foundations	Building - Unknown function	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016 04 14	-25,6477	30,3824	1894	Ruin of former building. Rough ashlar.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		058	Bridge west of Waterval Onder	Bridge	Mpumalanga	Emakhazeni Local Municipality	Waterval Onder	2016 04 14	-25,6479	30,3802	1894	Single span rough ashlar built plate girder bridge. Steel spans removed and bridge abandoned.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		059	Five Arch Bridge	Bridge Arched	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven		-25,6443	30,3542	1894	Five-span arched rough ashlar built bridge.	Fair	Provincial Heritage Resource	MHRA
NZASM_EL		060	Gangers Cottage east of Waterval Boven	Cottage Gangers	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6433	30,3464	1894	Ruin of single storey saddle roofed gangers cottage, rough ashlar walls on rough ashlar plinth and originally covered with corrugated sheet metal. Ruined.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		061	Eastern Line Tunnel	Tunnel	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6359	30,3447	1894	Rough ashlar faced parabolic tunnel.	Fair	Provincial Heritage Resource	MHRA
NZASM_EL		062	NZASM Eastern Line Head Quarters	Bridge	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6642	30,3294	1896	Large linear single storey hipped roofed administration building. Rough ashlar stone walls on rough ashlar plinth and formerly covered with corrugated sheet metal roof. Stoep front and back. Internal walls of soft baked mud brick. Entire part-remodelled. Gutted by a fire in February 2016.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		063	Waterval Boven Gangers Cottage	Cottage Gangers	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	30,3301		1894	Single storey saddle roofed gangers cottage, rough ashlar walls on rough ashlar plinth with corrugated sheet metal saddle roof. Roof ventilated through grill in top of gable walls. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. A rare authentic and well preserved example of the Ganger's Cottage type. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	








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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL		064	Third Avenue Hospital Boven Cottage 1	Hospital	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6443	30,3263	1897	Single storey hipped roofed hospital, plastered brick walls and covered with corrugated sheet metal roof. Roof cavity ventilated through openings between stoep roof and main roof. Wrap around stoep. Stoep remodelled. Converted to two dwellings.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		065	Third Avenue Hospital Boven Cottage 2	Hospital	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6442	30,3267	1897	Single storey hipped roofed hospital, plastered brick walls and covered with corrugated sheet metal roof. Roof cavity ventilated through openings between stoep roof and main roof. Wrap around stoep. Stoep remodelled. Converted to two dwellings.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		066	15 Third Avenue	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6442	30,3268	1897	Single storey hipped roofed double cottage, brick walls and covered with corrugated sheet metal roof. Highly probable that this cottage was historically associated with the hospital. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		067	17 Third Avenue	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6441	30,3269	1897	Single storey hipped roofed double cottage, brick walls and covered with corrugated sheet metal roof. Highly probable that this cottage was historically associated with the hospital. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		068	19 Third Avenue	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6441	30,3272	1897	Single storey hipped roofed double cottage, brick walls and covered with corrugated sheet metal roof. Highly probable that this cottage was historically associated with the hospital. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		069	21 Third Avenue	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6442	30,3273	1897	Single storey hipped roofed double cottage, brick walls and covered with corrugated sheet metal roof. Highly probable that this cottage was historically associated with the hospital. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		070	Pizzeria Third Avenue	Cottage	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6435	30,329	1897	Typical NZASM double-cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into a restaurant. Front stoep remodelled. Extensions in brick. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA

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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude		Structure (General)	Condition	Legislative Status	Heritage Authority	Jurisdiction
NZASM_EL	071	Fourth Avenue Cottage 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6436	30,3306	1897	Typical NZASM double-cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into a single family dwelling. Front stoeps remodelled. Extensions in brick. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	072	Fourth Avenue Cottage 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6438	30,3301	1897	Typical NZASM double-cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into a single family dwelling. Front stoeps remodelled. Extensions in brick. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	073	Fourth Avenue Cottage 3	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,644	30,3298	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	074	Fourth Avenue Cottage 4	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,644	30,3298	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	075	First Avenue Cottage 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,641	30,3328	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep. Ascribed to NZASM but further research required. Replastered, including faux-quoining. Converted to single-family residence.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	076	46 First Avenue Cottage 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,641	30,3329	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_EL	077	46 First Avenue Cottage 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,641	30,333	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA	

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NZASM_EL		078	House 7th Street	Cottage	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6415	30,3334	1897	Single storey pyramid roofed cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof. Front stoep enclosed. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		079	Cottage 1 7th Str.	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6417	30,3334	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep remodelled. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		080	Cottage 2 7th Str.	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6416	30,3335	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep remodelled. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		081	Cottage 3 7th Str.	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6417	30,3335	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep remodelled. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		082	Cottage 4 7th Str.	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6417	30,3334	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep remodelled. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		083	3 7th Street Cottage 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6422	30,3335	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep enclosed. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		084	3 7th Street Cottage 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6421	30,3335	1897	Single storey hipped roofed double cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stoep enclosed. Ascribed to NZASM but further research required.	Fair	Section 34 NHRA (60 year clause)	MHRA

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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL		085	Cottage 4 Fourth Av	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,643	30,3315	1897	Typical NZASM double-cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into a single family dwelling. Front stoeps remodelled. Extensions in brick. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		086	Old Age Home	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6433	30,3316	1897	Series of three married staff accommodation buildings remodelled into a single retirement home. Constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal saddle roof on timber trusses. Front stoep remodelled. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		087	Cottage 5 4th Av 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6433	30,3309	1897	Double staff cottage. Constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal saddle roof on timber trusses. Front stoep remodelled, doors and windows replaced. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		088	Cottage 5 4th Av 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6432	30,3309	1897	Double staff cottage. Constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal saddle roof on timber trusses. Front stoep remodelled, doors and windows replaced. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		089	Cottage Corner 3rd and 5th	Cottage	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6426	30,3305	1897	Typical NZASM Station master's dwelling. Double staff cottage. Constructed from rough ashlar stone, on stone plinth with front gable, covered with corrugated sheet metal saddle roof on timber trusses. Front stoep remodelled, doors and windows replaced. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		090	Cottage co 1st Av. and 5th Str. 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6413	30,3304	1897	NZASM double L-plan cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in fired face brick. Only three such buildings known to exist, the others located at Middelburg and Volksrust.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		091	Cottage co 1st Av. and 5th Str.	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6416	30,3305	1897	NZASM double L-plan cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in fired face brick. Only three such buildings known to exist, the others located at Middelburg and Volksrust.	Good	Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL	092	Nursery school 5th street	Cottage	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6424	30,3305	1897	Single storey hipped roofed house, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stepped gable with decorative mouldings and wrought iron finial. Front stoep remodelled. Unique.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	093	Doctors Residence 1st Ave	Cottage	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6414	30,33	1897	Single storey hipped roofed house, coursed ashlar walls on rough ashlar plinth and covered with corrugated sheet metal roof with ventilator. Front stepped gable with double arched windows and side stoep. Many internal finishings remain. Unique.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	094	Cottage Park Avenue	Cottage Gangers	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6427	30,3287	1897	Single storey double cottage, rough ashlar walls on rough ashlar plinth and saddle roof covered with corrugated sheet metal. Roof ventilated through grill in top of gable walls. Stoep part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	095	Toilet to Cottage Park Avenue	Toilet	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,63	30,3225	1897	Single storey ablution block, plastered walls on rough ashlar plinth and saddle roof covered with corrugated sheet metal roof. Part-remodelled.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	096	NZASM Memorial Waterval Boven	Memorial	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2012.04.02	-25,6408	30,3305	1934	Stone monolith with brass plaque and sections of track including a section of rack-rail.	Good	Section 37 NHRA (Memorials)	MHRA
NZASM_EL	097	Bovenhuis 4th	Row houses	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.13	-25,6427	30,3313	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into tourist accommodation. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	098	Shamrock Inn	Row houses	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.13	-25,6429	30,3305	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into tourist accommodation. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a unique example of a purpose designed NZASM dwelling with a unique aesthetic expressed by the main street facing stepped gable. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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<p>This memorial, being commemorative of the larger NZASM endeavour, falls under the generic NZASM statement of significance. Its importance lies in its associations with South Africa's community and heritage; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a unique ensemble that includes the memorialisation of the rack rail system. The memorial forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL		099	Waterval Boven Library	Row houses	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.13	-25,6431	30,33	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into a library. Front stoep remodelled. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		100	Cottage co 4th Ave. and 5th Str. 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.13	-25,6436	30,3307	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		101	Cottage co 4th Ave. and 5th Str. 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6437	30,3306	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		102	Cottage 5 4th avenue 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6438	30,3304	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		103	Cottage 5 4th avenue 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6438	30,3303	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		104	Cottage 6 4th avenue 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6438	30,3303	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		105	Cottage 6 4th avenue 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016.04.14	-25,6438	30,3301	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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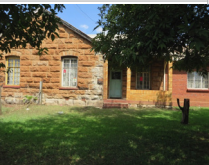


NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude		Structure (General)	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL	106	Cottage 7 4th avenue 1	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6439	30,3299	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	107	Cottage 7 4th avenue 2	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,6439	30,3298	1897	Typical NZASM married staff accommodation, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Converted into two dwellings. Front stoep remodelled. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	108	Station Waterval Boven	Station	Mpumalanga	Emakhazeni Local Municipality	Waterval Boven	2016 04 14	-25,640843	30,330918	1894	Corrugated sheet metal on timber frame linear island-platform station with double storey signal room incorporated. Hipped sheet metal roof. Interior much altered and façade much restored.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	109	Culvert east of Goedgeluk	Culvert single span	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,64652	30,292702	1894	Rough ashlar box culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	110	Culvert west of Goedgeluk	Culvert single arched	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,647691	30,292048	1894	Single barrel-vaulted rough ashlar culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	111	Bridge west of Goedgeluk	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,649296	30,289666	1894	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and plate steel girder of later date. shock absorb arches repaired with concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	112	Leeuwspruit Bridge	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,6539	30,2594	1894	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and plate steel girder of later date. shock absorb arches repaired with concrete.	Fair	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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NZASM_EL	113	Cottage 1 Station Street	Semi-detached house	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,6643	30,2535	1894		Single storey saddle roofed double cottage, brick walls covered with corrugated sheet metal roof. Stoep enclosed and facades plastered. Doors and windows replaced. Converted to single family residence.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	114	Cottage 2 Station street	Cottage	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,6649	30,2536	1894		Single storey saddle roofed cottage, brick walls covered with corrugated sheet metal roof. Extended to the front with hipped roof extension. Stoep enclosed and facades plastered. Doors and windows replaced. Converted to single family residence.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	115	Cottage 3 Station Street	Cottage	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,6646	30,2529	1894		Single storey saddle roofed cottage, brick walls covered with corrugated sheet metal roof. Extended to the front with hipped roof extension. Stoep enclosed and facades plastered. Doors and windows replaced. Converted to single family residence.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	116	Cottage 4 Station Str.	Shed	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,666	30,254	1894		Corrugated sheet metal on timber frame shed, converted to residential use. Saddle sheet metal roof.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	117	Machadodorp Gangers Cottage	Cottage Gangers	Mpumalanga	Emakhazeni Local Municipality	Machadodorp	2016 04 13	-25,6648	30,2519	1894		Single storey saddle roofed gangers cottage, brick walls on corrugated sheet metal saddle roof. Roof ventilated through grill in top of gable walls. Façade plastered and stoep enclosed.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	118	Cottage Pan Sta	Cottage	Mpumalanga	Emalahleni Local Municipality	Pan	2016 04 10	-25,759	29,6673	1894		Single storey saddle roofed cottage, brick walls covered with corrugated sheet metal roof. Extended to the back with lean-to extension. Doors and windows replaced. Abandoned and derelict.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	119	Pan Station	Station	Mpumalanga	Emalahleni Local Municipality	Pan	2016 04 10	-25,7592	29,6673	1894		Single storey saddle hipped roofed station building, rough ashlar walls on rough ashlar plinth and saddle roof covered with corrugated sheet metal. Stoep part-remodelled.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

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NZASM_EL		120	Pan Station Water tank	Water tank	Mpumalanga	Emalahleni Local Municipality	Pan	2016.04.10	-25,759	29,6667	1894	Riveted steel tank, manufactured by the 'Machinefabriek Breda, 1893'. Located on top of a tank stand.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		121	Klein Olifants River bridge	Bridge Combined	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,7693	29,529	1894	Multi-span steel girder bridge. Rough ashlar stone embankment abutments and piers (later encased in concrete) with concrete caps and box and plate girders of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		122	Middelburg Station	Station	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,77379	29,470149	1894	Attractive sandstone station building with coursed ashlar decorative stonework, including speklaag. Single stepped gable adorns the building on the town-facing side, while the rail-facing gable articulated with an attractive cantilevered platform roof. Originally also housed the station master's residence.	Fair	Provincial Heritage Resource	MHRA
NZASM_EL		123	Middelburg Cottage 1	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,771	29,4682	1894	Typical NZASM double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		124	Middelburg Cottage 2	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,7709	29,4679	1894	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		125	Middelburg Cottage 3	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,7708	29,4676	1894	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in hard fired face brick. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		126	Middelburg Cottage 4	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,7708	29,4674	1894	Typical NZASM double cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in hard fired face brick. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the steel superstructure is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a scarce example of a novel design with high aesthetic value and authenticity. The structure forms part of what can be seen as a heritage area. (Government Gazette Notice 1077 of 1988: 'Historical and architectural interest. This railway station is an important feature of the railway line from Pretoria to Delagoa Bay, which was constructed between 1890 and 1894 by the well-known "Nederlandsche Zuid-Afrikaansche Spoorwegmaatschappij". The station was probably built in 1894 and was the only refreshment post on the route. The stepped gables are particularly noteworthy and are a reminder of the important Dutch contribution to the Eastern Line, as it was known.)</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL	127	Middelburg Cottage 5	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,7707	29,4669	1894	Typical NZASM double cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in hard fired face brick. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	128	Middelburg Cottage 6	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,7707	29,4668	1894	Typical NZASM double cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in hard fired face brick. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	129	Middelburg Cottage 7	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,7734	29,4686	1894	NZASM double L-plan cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in fired face brick. Only three such buildings known to exist, the others located at Waterval Boven and Volksrust.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	130	Middelburg Cottage 8	Semi-detached house	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,7736	29,4688	1894	NZASM double L-plan cottage, constructed from rough ashlar stone, on stone plinth, covered with corrugated sheet metal hipped roof on timber trusses. Front stoep remodelled. Extensions in fired face brick. Only three such buildings known to exist, the others located at Waterval Boven and Volksrust.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	131	Groot Olifants River Bridge	Bridge Inverted truss girder	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,8066	29,3186	1894	Multi-span steel girder bridge. Rough ashlar stone embankment abutments and piers (later encased in concrete) with concrete caps and inverted box girders of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	132	Culvert west of Groot Olifants River Bridge	Culvert single span	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,8066	29,317	1894	Rough ashlar box culvert.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL	133	Three Arch Culvert between Olifants River Bridge and Station	Culvert triple arched	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016 04 10	-25,8068	29,3196	1894	Triple barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA

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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Structure (General)	Condition	Legislative Status
NZASM_EL		134	Culvert Olifants River Station	Culvert single span	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,8118	29,3087	1894	Rough ashlar box culvert.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		135	Gangers Cottage Olifants River Station	Cottage Gangers	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,8135	29,2985	1894	Ruin of single storey saddle roofed gangers cottage, rough ashlar walls on rough ashlar plinth and originally covered with corrugated sheet metal. Ruined.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		136	Olifants River Station Water Tank Pylon	Water tank stand	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,8136	29,2985	1894	Rough ashlar water tank stand.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		137	Cottage1 Clewer	Cottage Gangers	Mpumalanga	Emalahleni Local Municipality	Clewer	2016.04.10	-25,9002	29,1386	1894	Single storey saddle roofed double cottage, rough ashlar walls on rough ashlar plinth, roof covered with corrugated sheet metal. Muck altered and in service as single family dwelling.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		138	Station Clewer	Station	Mpumalanga	Emalahleni Local Municipality	Clewer	2016.04.10	-25,9006	29,1376	1894	Single storey hipped roofed station building, plastered brick walls with corrugated sheet metal saddle roof covered. Front stoep enclosed. Stripped and ruined.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		139	Cottage 2 Clewer	Cottage	Mpumalanga	Emalahleni Local Municipality	Clewer	2016.04.10	-25,9017	29,135	1894	Single storey pyramid roofed cottage, brick walls on rough ashlar plinth and covered with corrugated sheet metal roof. Front stoep part enclosed. Abandoned.	Good	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_EL		140	Fish belly Bridge Saalklap Spruit	Bridge Fish belly girder truss	Mpumalanga	Emalahleni Local Municipality	Middelburg	2016.04.10	-25,879	29,0116	1894	Single span rough ashlar built fish-belly plate girder bridge. Original fish belly's still extant.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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NZASM_EL	141	Wilge Rivier Station	Station	Gauteng	City of Tshwane Metropolitan Municipality	Bronkhorstspuit	2016 04 10	-25,8504	28,9206	1894	Single storey hipped roofed station building, plastered brick walls with corrugated sheet metal saddle roof. Much altered and converted for use as residence.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	142	Culvert west of Wilge River station	Culvert single arched	Gauteng	City of Tshwane Metropolitan Municipality	Bronkhorstspuit	2016 04 10	-25,849	28,9172	1894	Single barrel-vaulted rough ashlar culvert.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	143	Bronkhorstspuit bridge	Bridge	Gauteng	City of Tshwane Metropolitan Municipality	Bronkhorstspuit	2016 04 10	-25,795446	28,750515	1894	Single span rough ashlar built plate girder bridge. Steel spans removed and bridge abandoned. Part demolished.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	144	Elandspoor Bridge	Bridge	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2016 04 10	-25,764457	28,194718	1894	Single span rough ashlar built plate girder bridge. Steel spans removed and bridge abandoned. Part demolished.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	145	Pretoria Station Telegraph office	Office building	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2016 07 24	-25,760812	28,191784	1898	Single storey hipped roofed administration building with central courtyard. Originally, now plastered brick walls on rough ashlar plinth with corrugated sheet metal saddle roof. Much altered and recently restored.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	146	Pretoria Station NZASM Goods Store	Office building	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2013 12 27	-25,760363	28,19235	1898	Single storey saddle roofed administration building. Originally face, now plastered, brick walls covered with corrugated sheet metal roof with dormer windows. Extensive interior remodelling.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	147	Pretoria Station NZASM Shed Gautrain Station	Shed	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria		-25,758607	28,190189	1894	Large locomotive shed, constructed of railway tracks, bent and formed into portal frames with tie rods, covered with corrugated sheet metal. Currently serves as car parking.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a unique example of a NZASM courtyard building. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	

NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude		Structure (General)	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_EL	148	Pretoria Station Printed Matter Store	Office building	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2013 11 25	-25,757563	28,190119	1898	Double storey saddle roofed administration building with end gables. Originally face, now plastered, brick walls covered with corrugated sheet metal roof with functional roof void lit by dormer windows. Extensive interior remodelling.	Good	Provincial Heritage Resource	PHRA-Gauteng
NZASM_EL	149	Pretoria Station Station Master's House	Cottage	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria		-25,757184	28,189816	1894	Single storey saddle roofed cottage, brick walls covered with corrugated sheet metal roof. Stoep enclosed and facades plastered. Doors and windows replaced. Much altered. Originally station master's residence.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	150	NZASM Court Houses	Semi-detached house	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2011 08 08	-25,761927	28,18788	1898	Compound of 7 B- or C-type NZASM double cottages, brick walls on rough ashlar stone plinths with shared front central gable walls and corrugated sheet metal saddle roofs, arranged in an oval. Heavily renovated, facades plastered. Internal modifications affected over time.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_EL	151	NZASM Court School	School	Gauteng	City of Tshwane Metropolitan Municipality	Pretoria	2011 08 08	-25,762471	28,188033	1898	Brick built single storey school building. One of two remaining schools for children of employees constructed by the NZASM (the other at Volksrust) with cantilevered eaves on bracketed sprockets. Part of the Salvokop NZASM Court ensemble.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area. (Government Gazette Notice 2087 of 1981: The Netherlands South Africa Railway Company probably erected this building in 1896. it is the largest and best remaining example of an NSARC building in Pretoria.)</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
<p>This complex, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an ensemble it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The complex forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare example of a NZASM education facility constructed for the benefit of its employees. This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	





03.4 NZASM Barberton Branch Line (1892-1899)

Background to the line

The Kaap Goldfields in the district of Barberton had been established in 1884.

When the alignment of the NZASM Eastern Line was taken directly from Waterval Boven to Kaapmuiden by way of Elands River Valley and the Crocodile Poort rather than the longer intended trajectory past Barberton there was local political agitation to have Barberton connected to the rail. Previous surveys undertaken by the NZASM had identified the difficult terrain and subsequent high cost of the line, decisive in finding an alternative route, so there was no enthusiasm for this venture. Local entrepreneurs Lewis and Marks with Frank Watkins crated a syndicate to construct the line, and to this end contracted Pettegrew & Co. The same difficulties that beset the building of the Eastern Line in the Lowveld prevailed - difficult terrain, malaria and tsetse fly, in this case exacerbated by heavy rains and flooding in 1895, which damaged the two Kaap River bridges, then still under construction. The contractors floundered, and the Watkins Syndicate terminated the contract and dissolved the syndicate. The NZASM had no recourse but to take over the construction, which was completed in 1896.

Researchers' comments per site

NZASM_BBL_001: Bridge 1 north of Greenstone Station; Bridge Flat girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_002: Bridge 2 north of Greenstone Station; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; A particularly fine example of a vaulted ashlar viaduct. Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_003: Bridge south of Greenstone Station; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_004: Culvert north of Tonetti Station; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

03.27 (left): The Bridge over the Kaap River (NZASM_BBL_008, Umjindi Local Municipality). The setting of this bridge in the beautiful Makhonjwa Mountains makes it all the more spectacular and increases its tourism potential.

03.28 (bottom left): Inspecting the Barberton Branch Line at NZASM_BBL_001.

03.29 (bottom right): Detail of the plate girder bridge over the Revolver Creek (NZASM_BBL_005).





NZASM_BBL_005: Bridge south west of Revolver Creek Station; Bridge Flat girder single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_006: Bridge over Louw's Creek; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_BBL_007: Bridge over the Sheba River; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_BBL_008: Bridge over the Kaap River at Avoca; Bridge Inverted truss girder; On the original trajectory, still in use; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic

NZASM_BBL_009: Bridge over the Kaap River (Joe's Luck Bridge); Bridge Combined; On the original trajectory, still in use; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_BBL_010: Small culvert at Noordkaap Junction; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_011: Bridge south west of Caledonian station; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_012: Hospital Caledonian Station; Hospital; Associated with other remaining built structures along the original trajectory and in the Barberton district; Could be adaptively re-used to suit current circumstances and needs

NZASM_BBL_013: Building south of Caledonian Station; Hostel; Associated with other remaining built structures along the original trajectory and in the Barberton district; Could be adaptively re-used to suit current circumstances and needs.

NZASM_BBL_014: Fairfield Mine Culvert; Large arched culvert at Fairfield Mine turn off; On the original trajectory, still in use; A particularly fine example of a vaulted masonry culvert. Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_015: Bridge south of Caledonian Station; Bridge Flat girder double span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_016: Bridge north of Barberton; Bridge Flat girder single span with shock absorb arches; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_BBL_017: House Kruger Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Baberton station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_BBL_018: House Joubert Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Baberton station precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_BBL_019: House Ruin Nourse Street; Cottage; Associated with other remaining built structures along the original trajectory and at the Malelane station precinct; Important built residue,

03.30: A previously unidentified NZASM hospital building, close to Caledon Station (NZASM_BBL_012), now a private residence.

defunct. Unique and should any development occur, cognisance should be given to their heritage importance.

Reflection

The Barberton Branch line traverses of the most romantic and spectacular landscapes with evocative names such as Sheba and Revolver Creek. It has of the most impressive engineered bridge structures and the entire trajectory and all substructures are original, hence an authentic residue of the NZASM endeavor. It falls under a single Provincial Heritage Resources Authority, namely that of Mpumalanga, hence facilitating the potential for holistic and integrated heritage management. Like the Eastern Line this trajectory most logically makes for its declaration and management as a serial entity. It holds great tourism potential, being proximate to *The Barberton Mountain Land, Barberton Greenstone Belt or Makhonjwa Mountains* (on the tentative list of UNESCO World Heritage sites), an imperative for any heritage actions.



03.31 (top): Another one of the smaller single span plate girder bridges on the Barberton Branch Line (NZASM_BBL_016).

03.32 (middle): One of three cottages that remain of the staff housing at the NZASM Barberton Station. In this instance the ventilated double-roof has been removed (NZASM_BBL_017)


03.33 (bottom): A well preserved NZASM cottage close to the Barberton Station precinct (NZASM_BBL_018).



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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Structure (General)	Condition	Legislative Status
NZASM_BBL	_001	Bridge 1 North of Greenstone Station	Bridge Flat girder single span	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5491	31,3216	c.1896	Rough ashlar stone embankment buttresses with concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_002	Bridge 2 North of Greenstone Station	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5635	31,3186	c.1896	Ruin of single storey brick built cottage with double ventilated corrugated iron roof on timber trusses.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_003	Bridge south of Greenstone Station	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5734	31,3202	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_004	Culvert north of Tonetti Station	Culvert single arched	Mpumalanga	Nkomazi Local Municipality	Kaapmuiden	2016 04 15	-25,5775	31,3197	c.1896	Rough ashlar flat culvert	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_005	Bridge south west of Revolver Creek Station	Bridge Flat girder single span	Mpumalanga	Umjindi Local Municipality	Barberton	2012 04 03	-25,627144	31,304361	c.1896	Rough ashlar stone embankment buttresses with concrete caps and up-stand plate girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_006	Bridge over Louw's Creek	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Umjindi Local Municipality	Barberton	2012 04 03	-25,643210	31,288023	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_007	Bridge over the Sheba River	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Umjindi Local Municipality	Barberton	2012 04 04	-25,684342	31,174522	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_008	Bridge over the Kaap River at Avoca	Bridge Inverted truss girder	Mpumalanga	Umjindi Local Municipality	Barberton	2012 04 05	-25,680761	31,170074	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and girder bridge superstructure of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_BBL	_009	Bridge over the Kaap River (Joe's Luck Bridge)	Bridge Combined	Mpumalanga	Umjindi Local Municipality	Barberton	2012 04 06	-25,669197	31,13108	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and composite plate and girder bridge superstructure of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA

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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude		Structure (General)	Legislative Status	Heritage Authority	Jurisdiction	
NZASM_BBL	_010	Small culvert at Noordkaap Junction	Culvert single span	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 07	-25,679627	31,079862	c.1896	Rough ashlar flat culvert	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_011	Bridge south west of Caledonian station	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 08	-25,683359	31,079754	c.1896	Rough ashlar stone embankment buttresses with concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_012	Hospital Caledonian Station	Hospital	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 09	-25,710872	31,061886	c.1896	Single storey brick built hospital building, converted to residence, with corrugated iron roof an ventilated roof void.	Good	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_013	Building south of Caledonian Station	Hostel	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 09	-25,71371	31,061068	c.1896	Single storey brick built building, with corrugated iron roof an ventilated roof void.	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_014	Fairfield Mine Culvert	Large arched culvert at Fairfield Mine turn off	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 10	-25,717822	31,059343	c.1896	Single span rough ashlar arched culvert.	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_015	Bridge south of Caledonian Station	Bridge Flat girder double span with shock absorb arches	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 11	-25,722539	31,054225	c.1896	Rough ashlar stone embankment buttresses with concrete caps and up-stand plate girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_016	Bridge north of Barberton	Bridge Flat girder single span with shock absorb arches	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 12	-25,745512	31,045417	c.1896	Rough ashlar stone embankment buttresses with shock absorb arches, concrete caps and composite plate and girder bridge superstructure of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_017	House Kruger Street	Cottage	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 13	-25,788292	31,045361	c.1896	Single storey brick built cottage with corrugated iron roof on timber trusses.	Fair	Section 34 NHRA (60 year clause)	MHRA	
NZASM_BBL	_018	House Joubert Street	Cottage	Mpumalanga	Umgindi Local Municipality	Barberton	2012 04 14	-25,788828	31,046667	c.1896	Single storey brick built cottage with double ventilated corrugated iron roof on timber trusses.	Good	Section 34 NHRA (60 year clause)	MHRA	

NUMBER		IDENTIFICATION		LOCATION INFORMATION							COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	Structure (General)			Condition	Legislative Status	Heritage Authority
NZASM_BBL	_019	House Ruin Nourse Street	Cottage	Mpumalanga	Umjindi Local Municipality	Barberton	2012-04-15	-25,789105	31,047035	c.1896	Ruin of single storey brick built cottage with double ventilated corrugated iron roof on timber trusses.	Ruined	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA	MHRA

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	





HEIDELBERG

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03.5 NZASM South–Eastern Line (1888–1899)

Background to the South-Eastern Line

This was the line connecting the Witwatersrand to the Durban Harbour. It required a co-operative agreement of the NZASM with the Natal Government Railways, which undertook its commitments to the project as a matter independent of its Natal headquarters.

The first portion to be completed was the short section between Charlestown and the ZAR border, undertaken by HS Smith as contractor.

The line between Border Spruit and Heidelberg was divided into twelve sections. The line between Heidelberg and Elsburg was divided into two sections. The first was awarded to PJ Mostert and TJ Atterbury for earthworks and masonry for the first section and Donaldson & Fawcus (also involved on the Eastern Line) for the second.

In September 1894 when all abutments and piers of most bridges from Volksrust to Heidelberg were ready the contract for the steel superstructures was awarded to Mitcheson & Kollbrunner. On the Heidelberg to Elsburg Section this contract was awarded to Th Winter by 2 January 1896 the whole line was opened for traffic.

It became an economic generator for the Natal Colony's economy through giving direct access to the industrial hub of the Rand. In the Anglo Boer War it suffered firstly extensive damage by wrecking teams on the Boer Forces as they retreated, later to become an important transport arterial for the British War effort.

Researchers' comments per site

NZASM_SEL_001: Convention Bridge; Bridge; On the original trajectory, now defunct; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic. Heritage jurisdiction is shared between Amafa and MHRA and any heritage actions should be in consultation between these Heritage Authorities.

NZASM_SEL_002: Station Volksrust; Station; On the original trajectory, now ruinous; Once a National Monument, now a Provincial Heritage Resource in the Mpumalanga Province, its significance should be re-assessed and its declaration re-visited.

NZASM_SEL_003: Volksrust NZASM Rec Hall; Recreation hall; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Could be adaptively re-used to suit current circumstances and needs

NZASM_SEL_004: Volksrust NZASM School; School; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Could be adaptively re-used to suit current circumstances and needs

NZASM_SEL_005: Cottage 1 Watt Str; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_006: Cottage 2 Watt Str; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_007: Cottage 3 Watt Str; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_008: Cottage 4 Watt Str; Semi-detached house; Associated with other remaining

03.34 (left): The first Heidelberg Station (Dipaleseng Local Municipality, NZASM_SEL_86) is a unique and valuable building of which the aesthetic unmistakably identifies this building as shared heritage of South Africa and the Netherlands.

03.35 (right): The historically important Convention Bridge on both sides of the Mpumalanga Kwa Zulu-Natal border (NZASM_SEL_001) is historically significant as regards the formation of the Kingdom of Swaziland.



in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_026: Cottage 22 Watt Str; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_027: Volksrust Gangers Cottage; Building - Unknown function; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_028: Culvert Approaching Volksrust; Culvert single arched; Associated with other remaining built structures along the original trajectory and at the Volksrust precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_029: Sassenberg Spruit Bridge; Bridge; On the original trajectory, now ruinous.

NZASM_SEL_030: Sand Spruit Station Gangers Cottage; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Sand Spruit precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_031: Sand Spruit Station; Station; Associated with other remaining built structures along the original trajectory and at the Sand Spruit precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_032: Sand Spruit Station Cottage; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Sand Spruit precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_033: Bridge over Sand Spruit; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SEL_034: Bridge Leonard Spruit; Bridge; On the original trajectory, now ruinous.

NZASM_SEL_035: Markgraaf Spruit Station; Station; Associated with other remaining built structures along the original trajectory and at the Sand Spruit precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance. Heritage associations need to be determined and / or verified.

NZASM_SEL_036: Markgraafspruit house; Building house; Building - Unknown function; Associated with other remaining built structures along the original trajectory and at the Sand Spruit precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance. Heritage associations need to be determined and / or verified.

NZASM_SEL_037: Culvert btw Markgraafspruit and Platrand; Culvert; On the original trajectory, now defunct and appropriated in the embankment which serves as a farm dam wall; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_038: Platrand Station Cottage; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Platrand precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_039: Katbosch Spruit Bridge; Bridge; On the original trajectory, now ruinous.

NZASM_SEL_040: Vaal River Bridge; Bridge; On the original trajectory, now defunct; A distinctive landmark feature in the landscape valued by tourists and visitors as being photogenic.

NZASM_SEL_041: Standerton Cottage 1; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_042: Standerton Cottage 2; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_043: Standerton Cottage 3; Semi-detached house; Associated with other remaining

built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_044: Standerton Cottage 4; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_045: Standerton Cottage 5; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_046: Standerton Cottage 6; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_047: Standerton Cottage 7; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_048: Standerton Cottage 8; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development

occur, cognisance should be given to their heritage importance.

NZASM_SEL_049: Standerton Cottage 9; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_050: Standerton Cottage 10; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_051: Standerton Cottage 11; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_052: Standerton Cottage 12; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development



03.36: NZASM residue has been appropriated and reused in any number of creative ways. In this case the former, now disused embankment and culvert (NZASM_SEL_037) have been converted into a dam wall.

03.37: In Standerton the NZASM staff housing precinct (NZASM_SEL_041–055) consists of a large number of NZASM Type houses. These are much loved by their inhabitants.

occur, cognisance should be given to their heritage importance.

NZASM_SEL_053: Standerton Cottage 13; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_054: Standerton Cottage 14; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_055: Standerton Cottage 15 Singles Quarters; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_056: Brak Spruit Bridge ; Bridge; On the original trajectory, now ruinous.

NZASM_SEL_057: Culvert btw Holmdene and Brak River; Culvert double span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_058: Waterval Bridge; Bridge; On the original trajectory, now ruinous.

NZASM_SEL_059: Groot Spruit Bridge; Bridge Flat girder multiple spans; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_060: Culvert btw Val and Greylingstad; Culvert double span; On the original trajectory, now defunct.

NZASM_SEL_061: Silverbank Bridge; Bridge truss girder; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Unique and should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_062: Culvert east of Greylingstad 1; Culvert double span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_063: Culvert east of Greylingstad 2; Culvert single span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_064: Bridge east of Greylingstad 3; Bridge; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_065: Culvert east of Greylingstad 3; Culvert double span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_066: Bridge east of Greylingstad 2; Bridge; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_067: Culvert east of Greylingstad 4; Culvert single span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_068: Culvert east of Greylingstad 5; Culvert single span; On the original trajectory, now defunct;

NZASM_SEL_069: Culvert east of Greylingstad 6; Culvert single span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_070: Bridge west of Balfour; Bridge; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_071: Gangers Cottage Balfour; Cottage Gang Boss; Associated with other remaining built structures along the original trajectory and at the Balfour precinct; A rare and unique example of the type, the only pre-fabricated ganger's cottage found. Well worthy of heritage protection and conservation. Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_072: C-plan House Balfour; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Balfour precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_073: Cottage 1 Balfour; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Balfour precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_074: Cottage 2 Balfour; Cottage Staff; Associated with other remaining built structures along the original trajectory and at the Balfour precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_075: Culvert west of Balfour; Culvert single span; Associated with other remaining built structures along the original trajectory and at the Standerton precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_076: Suikerbosrand cutting ; Cutting; On the original trajectory, now defunct.

NZASM_SEL_077: Suikerbosrand Bridge; Bridge; On the original trajectory, now defunct.

NZASM_SEL_078: Kraal Station; Station; Associated with other remaining built structures along the original trajectory and at the Kraal precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_079: Kraal Station Water tank; Water tank stand; Associated with other remaining built structures along the original trajectory and at the

Kraal precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_080: Voortrekker Street Cottage 1 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_081: Voortrekker Street Cottage 2 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_082: Voortrekker Street Cottage 3 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_083: Voortrekker Street Cottage 4 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_084: Voortrekker Street Cottage 5 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_085: Voortrekker Street Cottage 6 Heidelberg; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_086: Heidelberg Station ; Station; Associated with other remaining built structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_087: Heidelberg Station Goods Shed; Shed; Associated with other remaining built



03.38 (top): Balfour, Mpumalanga might not have a large number of NZASM houses, but the four that remain are all representative of different housing types. This unique and highly significant a corrugated sheet metal Ganger Cottage,(NZASM_SEL_071) was not previously not identified.

03.39 (bottom left): The NZASM South-Eastern Line cutting at the Suikerboschrand River (NZASM_SEL_076) has served local farmers and fishermen alike since the line trajectory was relocated.

03.40 (bottom right): NZASM infrastructure has also been reused for recreational purposes, in this case as bridge over the Blesbokspruit for golf carts on the Heidelberg Golf Club course (NZASM_SEL_088).

structures along the original trajectory and at the Heidelberg precinct; Important built residue, still in use. Should any development occur, cognisance should be given to their heritage importance.

NZASM_SEL_088: Blesbok Spruit Golf course; Bridge; On the original trajectory, defunct.; Serves as a community landmark in a gated village. Any changes must trigger a heritage action.

NZASM_SEL_089: Blesbok Spruit Bridge; Bridge; On the original trajectory, now defunct.

NZASM_SEL_090: Culvert west of Blesbok Spruit; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature

NZASM_SEL_091: Singel span bridge west of Blesbok Spruit; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

Reflection



Other than the Eastern line, the NZASM South-Eastern Line has the greatest number of extant features, but unlike those of the Eastern Line, where much is structural and in use, here much of this residue is residential. Although often lacking in maintenance, still many remain occupied. This aspect makes for an important heritage consideration in the development of any heritage actions and should be central to informing the strategic development plans of the particular responsible local authorities. Many are part of ensembles or situate proximate to other heritage precincts, for example that in Volksrust, which offers opportunity as vector for (urban) economic development.

NUMBER	IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS				
	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Structure (General)	Condition	Legislative Status
NZASM_SEL		001	Convention Bridge	Bridge	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2012 04 01	-27.3773	29.8811	1894	Rough ashlar stone embankment abutments that formerly carried a plate girder.	Derelict	Provincial Heritage Resource	MHRA
NZASM_SEL		002	Station Volksrust	Station	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 12	-27.371	29.8891	1895	Ruin of a large island-type station. Included a customs building designed by the ZAR DPW.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		003	Volksrust NZASM Rec Hall	Recreation hall	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 13	-27.3734	29.8881	1898	Single storey brick-built recreation and dining hall, with hipped saddle roof in corrugated iron and typical NZASM bracketed sprockets. The whole building, though currently abandoned and in a poor state of repair, contains many original architectural features, such as a fine fireplace and timber mouldings, all of high significance.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		004	Volksrust NZASM School	School	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 13	-27.3734	29.8881	1898	Brick built single storey school building. One of two remaining schools for children of employees constructed by the NZASM (the other at Salvokop, Pretoria) with cantilevered eaves on bracketed sprockets.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		005	Cottage 1 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 13	-27.3744	29.8885	1896	Sandstone single storey double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		006	Cottage 2 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 13	-27.3743	29.8885	1896	Sandstone single storey double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		007	Cottage 3 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 13	-27.3741	29.8885	1896	Single storey corrugated sheeting double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time. One of a rare handful remaining such corrugated sheet metal buildings constructed by the NZASM.	Poor	Section 34 NHRA (60 year clause)	MHRA

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. (Government Gazette Notice 1992 of 1954: 'Sub-division 18 of the farm Drystream No. 13293 situate in the County Klipriver, Natal, in extent 18550 square feet as shown in diagram number S.G. 7819/49 attached to the Deed of Transfer No. 3030/1951 dated 20th April, 1951, in favour of the Municipality of Volksrust on which are situated the remains of the bridge known as the Convention Bridge.)</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. (Government Gazette Notice 2264 of 1989: 'The old NZASM railway station building and the ZAR customs building, situated on Portion 32 (Reserve 13), Portion B of Railway) of the farm Town and Town Lands Volksrust 52, situated in the District of Volksrust, Province of the Transvaal.')</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare example of a NZASM recreation facility constructed for the benefit of its employees. This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare example of a NZASM education facility constructed for the benefit of its employees. This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare example of a prefabrication employed by the NZASM. This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a scarce example of a its type executed in lightweight construction with corrugated sheet metal facades. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	

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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority
NZASM_SEL	008	Cottage 4 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3741	29.8886	1896	Single storey corrugated sheeting double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time. One of a rare handful remaining such corrugated sheet metal buildings constructed by the NZASM.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	009	Cottage 5 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3739	29.8885	1896	Sandstone single storey double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	010	Cottage 6 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	27.3737	29.8885	1896	Sandstone single storey double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	011	Cottage 7 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3737	29.8886	1896	Single storey corrugated sheeting double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time. One of a rare handful remaining such corrugated sheet metal buildings constructed by the NZASM.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	012	Cottage 8 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3735	29.8885	1896	Single storey corrugated sheeting double-cottage with hipped corrugated metal roof. Of study construction with some alterations and additions affected over time. One of a rare handful remaining such corrugated sheet metal buildings constructed by the NZASM.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	013	Cottage 9 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3734	29.8885	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	014	Cottage 10 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3733	29.8886	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA

NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS			
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude		Structure (General)	Condition	Legislative Status	Heritage Authority	Jurisdiction
NZASM_SEL	015	Cottage 11 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3732	29.8885	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	016	Cottage 12 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3729	29.8886	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	017	Cottage 13 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3729	29.8886	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	018	Cottage 14 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3726	29.8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	019	Cottage 15 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3726	29.8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	020	Cottage 16 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3724	29.8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA
NZASM_SEL	021	Cottage 17 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 13	-27.3724	29.8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA	MHRA

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NZASM_SEL		022	Cottage 18 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,3722	29,8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		023	Cottage 19 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,372	29,8887	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		024	Cottage 20 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,372	29,8888	1896	Rough ashlar built double cottage, typical of NZASM housing design. Sturdy and well preserved. Some structural instability in the front gable has been resolved through insertion of lateral remedial restraints tied to railway track as anchor plates. High level of authenticity despite the replacement of doors and windows over time.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		025	Cottage 21 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,3718	29,8888	1896	Unique double gabled double cottage, constructed in sandstone with hipped and gabled complex corrugated sheet metal roof. The only one remaining in Volksrust. Structural instability of both front gables resolved through post-construction insertion of lateral restraints tied to cross anchor plates. Other buttressing included to gable and side walls to shore up the structure, indicating a problem with the foundations.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		026	Cottage 22 Watt Str	Semi-detached house	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,3716	29,8889	1896	Unique double gabled double cottage, constructed in sandstone with hipped and gabled complex corrugated sheet metal roof. The only one remaining in Volksrust. Structural instability of both front gables resolved through post-construction insertion of lateral restraints tied to cross anchor plates. Other buttressing included to gable and side walls to shore up the structure, indicating a problem with the foundations.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		027	Volksrust Gangers Cottage	Building - Unknown function	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2016 04 13	-27,369	29,8893	1896	Single Storey sandstone built gangers cottage with saddle roof and originally with large street-side (cantilevering?) eave. In poor condition. End gable stabilised through construction remedial buttresses. Extended.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		028	Culvert Approaching Volksrust	Culvert single arched	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality Volksrust		2012 04 02	27,361173	29,869953	1896	Large rough ashlar stone arched culvert with notably fine stonemasonry work.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

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NZASM_SEL	029	Sassenberg Spruit Bridge	Bridge	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2012 03 31	27.277734	29.785246	1896	Rough ashlar stone embankment abutments that formerly carried a plate girder.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	030	Sand Spruit Station Gangers Cottage	Cottage Staff	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 12	27.270530	29.78404	1896	Single storey brick built cottage with corrugated metal saddle roof. Of study construction with some alterations and additions affected over time. Possibly a gangers residence associated with the Sandspruit Station.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	031	Sand Spruit Station	Station	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 12	27.269595	29.783949	1896	Unique remaining example of a NZASM hipped corrugated metal roofed rural station. Constructed of rough ashlar sandstone. Since reused as shop, but now vacant. The building has seen many alterations and additions.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	032	Sand Spruit Station Cottage	Cottage Staff	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 12	27.268027	29.782216	1896	Single storey rough ashlar double-cottage with corrugated metal saddle roof. Extended during the early C20. Of study construction with some alterations and additions affected over time. Associated with the Sandspruit Station.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	033	Bridge over Sand Spruit	Bridge	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 12	27.264816	29.773120	1896	Rough ashlar stone embankment abutments with concrete caps that formerly carried a girder steel truss, since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	034	Bridge Leonard Spruit	Bridge	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2012 03 31	-27.248207	29.756864	1896	Rough ashlar stone embankment abutments that formerly carried a plate girder.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	035	Markgraaf Spruit Station	Station	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volkstrust	2016 04 12	-27.21216	29.686348	c.1900	Single storey rough ashlar built station building with saddle roof and bracketed cantilevered platform canopy. Atypical for NZASM indicative of a late-NZASM period station design, planned before the Anglo-Boer War, but only completed after the War to a somewhat modulated NZASM design.	Poor	Section 34 NHRA (60 year clause)	MHRA

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NZASM_SEL		036	Markgraaf Spruit House	Building - Unknown function	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2016 04 12	-27.211836	29,687399	c.1900	Large single storey pyramid-roofed rough ashlar built residence. Atypical for NZASM indicative of a late-NZASM period station design, planned before the Anglo-Boer War, but only completed after the War to a somewhat modulated NZASM design.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		037	Culvert between Markgraafspruit and Platrand	Culvert single arched	Mpumalanga	Dr Pixley Ka Isaka Seme Local Municipality	Volksrust	2012 03 31	-27,197201	29,688390	1896	Large rough ashlar stone arched culvert, with embankment, now converted to serving as retention wall for a water basin.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		038	Platrand Station Cottage	Cottage Staff	Mpumalanga	Lekwa Local Municipality	Perdekop	2016 04 12	-27,106713	29,459459	1896	Single storey rough ashlar built standard NZASM station-cum-station masters dwelling combination building. Original saddle roof extended forwards with early C20 addition of brick extension. Since painted white.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		039	Katbosch Spruit Bridge	Bridge	Mpumalanga	Lekwa Local Municipality	Standerton	2012 03 31	-27,106713	29,459459	1896	Rough ashlar stone embankment abutments with concrete caps that formerly carried a girder steel truss, since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		040	Vaal River Bridge	Bridge	Mpumalanga	Lekwa Local Municipality	Standerton	2012 03 31	-27,106713	29,459459	1896	Rough ashlar stone embankment abutments and piers with concrete caps that formerly carried a girder steel truss, since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		041	Standerton Cottage 1	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26,9559	29,2341	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		042	Standerton Cottage 2	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26,9558	29,2342	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA

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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude			Longitude	Condition	Legislative Status	Heritage Authority
NZASM_SEL		043	Standerton Cottage 3	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9558	29.2342	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' and vertically positioned railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		044	Standerton Cottage 4	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9555	29.2341	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' and vertically positioned railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		045	Standerton Cottage 5	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9554	29.2341	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		046	Standerton Cottage 6	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9551	29.234	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		047	Standerton Cottage 7	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9555	29.234	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		048	Standerton Cottage 8	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9548	29.234	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		049	Standerton Cottage 9	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9559	29.2334	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of a ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA

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NZASM_SEL	050	Standerton Cottage 10	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9557	29.2334	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	051	Standerton Cottage 11	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9557	29.2334	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	052	Standerton Cottage 12	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9554	29.2333	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	053	Standerton Cottage 13	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9553	29.2334	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	054	Standerton Cottage 14	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9552	29.2333	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	055	Standerton Cottage 15 Singles Quarters	Semi-detached house	Mpumalanga	Lekwa Local Municipality	Standerton	2016 04 12	-26.9537	29.2334	1896	NZASM 8-room single staff quarters, constructed from rough ashlar stone abutments (side gables stabilised with anchor plates in the form of an 'x' tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains. A an extension in brick of later date. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	056	Brak Spruit Bridge	Bridge	Mpumalanga	Lekwa Local Municipality	Standerton	2012 04 01	-26.92593	29.173941	1896	Rough ashlar stone embankment abutments and piers with concrete caps that formerly carried a girder steel truss, since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

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NZASM_SEL			NZASM_SEL	057	Culvert between Holmdene and Brak River	Culvert double span	Mpumalanga	Lekwa Local Municipality	Standerton	2012/04/01	-26,917938	29,165983	1896	Rough ashlar flat double culvert, since extended with in situ concrete sections	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	058	Waterval Bridge	Bridge	Mpumalanga	Dipaleseng Local Municipality	Val	2012 04 01	-26,82788	28,984384	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Derelect	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	059	Groot Spruit Bridge	Bridge Flat girder multiple spans	Mpumalanga	Dipaleseng Local Municipality	Val	2012 04 01	-26,769232	28,842712	1896	Rough ashlar stone embankment abutments with concrete caps and plate steel girder of later date	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	060	Culvert between Val and Greylingstad	Culvert double span	Mpumalanga	Dipaleseng Local Municipality	Val	2012 04 01	26,77492	28,805373	1896	Rough ashlar flat double culvert, since extended with in situ concrete sections	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	061	Silverbank Bridge	Bridge Truss girder	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26,7575	28,7641	1896	Rough ashlar stone embankment abutments with concrete caps and single span girder bridge superstructure of later date.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	062	Culvert east of Greylingstad	Culvert double span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26,7413	28,7335	1896	Rough ashlar flat double culvert, since extended with in situ concrete sections	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL			NZASM_SEL	063	Culvert east of Greylingstad	Culvert single span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26,7355	28,7277	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 34 NHRA (60 year clause)	MHRA

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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Structure (General)	Condition	Legislative Status
NZASM_SEL	064	Bridge east of Greylingstad	Bridge	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.7298	28.7219	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	065	Culvert east of Greylingstad	Culvert double span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.7214	28.7126	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	066	Bridge east of Greylingstad	Bridge	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.7203	28.7109	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	067	Culvert east of Greylingstad	Culvert single span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.7138	28.7004	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	068	Culvert east of Greylingstad	Culvert single span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.6987	28.6757	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	069	Culvert east of Greylingstad	Culvert single span	Mpumalanga	Dipaleseng Local Municipality	Greylingstad	2016 04 08	-26.6966	28.6708	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	070	Bridge West of Balfour	Bridge	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.689851	28.646289	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Fair	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	MHRA

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the concrete steel superstructure is of a later date, it retains the function of the original as a heritage resource.</p>	Grade II Provincial Heritage Site	
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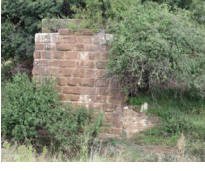

NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SEL	071	Gangers Cottage Balfour	Cottage Gang Boss	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.6633	28.5797	1896	Sole remaining and highly valuable example of a NZASM corrugated sheet metal gangers cottage. Constructed with timber frame on a rough ashlar plinth with rail-facing stoep where original timber bracketing remains. Ventilated saddle roof with lean-to extensions. Of high significance.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	072	C-plan House Balfour	Semi-detached house	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.6602	28.581	1896	Originally NZASM C-Pan double-cottage, constructed of rough ashlar with hipped corrugated sheet-metal roof, since combined into a single family home, with substantial alterations and additions affected over time.	Good	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	073	Cottage 1 Balfour	Cottage Staff	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.6601	28.5812	1896	NZASM cottage, constructed of rough ashlar with hipped corrugated sheet-metal roof, with early C20 additions, since remodelled as a single family home, with substantial alterations and additions affected over time.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	074	Cottage 2 Balfour	Cottage Staff	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.6596	28.5813	1896	NZASM L-Plan cottage, constructed of rough ashlar with hipped corrugated sheet-metal roof, with early C20 additions, with stoep enclosed.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	075	Culvert west of Balfour	Culvert single span	Mpumalanga	Dipaleseng Local Municipality	Balfour	2016 04 08	-26.6526	28.5805	1896	Single span rough ashlar flat culvert with later concrete extensions.	Fair	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL	076	Suikerbosrand cutting	Cutting	Mpumalanga	Dipaleseng Local Municipality	Heidelberg	2016 04 08	-26.6055	28.5093	1896	Railway cutting leading to the Suikerbosrand River Bridge. Currently in use by vehicular traffic.	Fair	Section 35 NHRA (Archaeology)	MHRA
NZASM_SEL	077	Suikerbosrand Bridge	Bridge	Mpumalanga	Dipaleseng Local Municipality		2016 04 08	-26.6042	28.507	1896	Rough ashlar stone embankment abutments and piers with concrete caps that formerly carried a girder steel truss, since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is the only known extant example of a prefabricated NZASM Ganger's Cottage and thereof of high Provincial significance.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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NZASM_SEL		078	Kraal Station	Station	Mpumalanga	Dipaleseng Local Municipality	Heidelberg	2012 03 30	-26,582169	28,435511	1896	NZASM L station-cum-dwelling combination, constructed of rough ashlar with hipped corrugated sheet-metal roof, with early C20 additions, with stoep enclosed and extended. Sole example of its type still in existence.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		079	Kraal Station Water Tank	Water tank stand	Mpumalanga	Dipaleseng Local Municipality	Heidelberg	2012 03 30	-26,581903	28,435439	1896	Water tank stand and tanks of NZASM origin still in use for domestic water provision.	Poor	Section 34 NHRA (60 year clause)	MHRA
NZASM_SEL		080	Voortrekker Street Cottage 1 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,508037	28,370295	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		081	Voortrekker Street Cottage 2 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,508037	28,370295	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		082	Voortrekker Street Cottage 3 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507843	28,370072	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		083	Voortrekker Street Cottage 4 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507843	28,370072	1896	Typical NZASM plan double cottage, constructed from rough ashlar stone, on stone plinth with shared street facing gable (front and side gables stabilised with anchor plates in the form of an railway track tied to lateral restraints), covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include the fireplace. Some original timber fretwork detailing remains on the stoep. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		084	Voortrekker Street Cottage 5 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507574	28,369104	1896	NZASM multi-room single staff quarters, constructed from rough ashlar stone abutments, corrugated sheet metal hipped roof on timber trusses. A an extension in brick of later date. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a scarce and authentic example of its type.</p>	Grade II Provincial Heritage Site	
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NZASM_SEL		085	Voor trekker Street Cottage 6 Heidelberg	Semi-detached house	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507574	28,369104	1896	NZASM multi-room single staff quarters, constructed from rough ashlar stone abutments, corrugated sheet metal hipped roof on timber trusses. A an extension in brick of later date. Part of an ensemble of significance.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		086	Heidelberg Station	Station	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507282	28,367455	1896	Attractive sandstone station building with coursed ashlar decorative stonework, including speklaag. Two large gables adorn the building, the street-facing gable articulated as stepped gable, while the rail-facing gable articulated in a Baroque mode. Decorative wrought ironwork and dormer windows further adorn the building.	Fair	Provincial Heritage Resource	PHRA-Gauteng
NZASM_SEL		087	Heidelberg Station Goods Shed	Shed	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,507363	28,36654	1896	Large NZASM Goods shed constructed of corrugated sheet metal on framework construction.	Fair	Provincial Heritage Resource	PHRA-Gauteng
NZASM_SEL		088	Blesbok Spruit Golf course	Bridge	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,5088	28,3823	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		089	Blesbokspruit Bridge	Bridge	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,4856	28,4017	1896	Rough ashlar stone embankment abutments with shock absorb arches, concrete caps and composite plate and girder bridge superstructure since removed.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		090	Culvert west of Blesbokspruit	Culvert single span	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 08	-26,469	28,3984	1896	Single span rough ashlar flat culvert with later concrete additions.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SEL		091	Single span bridge west of Blesbokspruit	Bridge	Gauteng	Lesedi Local Municipality	Heidelberg	2016 04 13	-26,4644	28,3942	1896	Rough ashlar stone embankment abutments and piers that formerly carried a plate girder.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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03.6 NZASM SouthWestern Line (1890–1899)

Background to the South-Western Line

Once the Southern Line was operational the people of Potchefstroom agitated for a rail connection to the Rand Tram to the east and so the *Volksraad* instituted a preliminary survey in 1893 leading to the design for the line bridges and structures by Godfrey & Curlewis.

The NZASM was appointed by the ZAR Government to develop and operate the line. They, on appointment, found that the designs with which they were presented for all culverts and bridges, were below their exacting standards and re-designed all of these. For purposes of construction the line was divided into six sections. Warren & Royce were awarded ballasting and track-laying for the entire line. Winter was awarded the contract for all steel bridge superstructures. The contracts for the masonry of bridges as well as building of stations were awarded as follows:

- Section 1: MCA Meischke,
- Section 2: Keefe & Atterbury,
- Section 3: JM Mante,
- Section 4: MCA Meischke,
- Section 5: Warren & Royce,
- Section 6: Keefe, Thomson & Janse.

The Jameson Raid in 1896, the *runderpest* and a shortage of indigenous labour all hampered the construction process, inhibiting progress.

When it came into operation, opened by President Paul Kruger in 1897, it proved unprofitable and had to be subsidized

Researchers comments per site

NZASM_SWL_001: Klerksdorp Station; Station; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_002: House 1 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_003: House 2 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_004: House 3 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original

03.41 (Left): The NZASM-built bridges evolved over time, adapting to serve changing needs. This is well illustrated by the Bridge east of Vleikop Station (NZASM_SWL_055, Randfontein Local Municipality) where NZASM stone piers meet steel concrete super structures, each of a different date.

03.42 (Bottom Left): The Klerksdorp Station (NZASM_SWL_001), terminal of the South-Western Line, is a jewel of a building that is still in use.

03.43 (Bottom Left): The row of NZASM housing (NZASM_SWL_002–011) interspersed by later CSAR-period cottages at Klerksdorp Station



trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_005: House 4 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_006: House 5 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_007: House 6 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_008: House 7 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_009: House 8 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_010: House 9 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_011: House 10 Klerksdorp Station; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any

development occur, cognisance must be given to its heritage importance.

NZASM_SWL_012: Mens' Toilet Klerksdorp Station Klerksdorp Station; Toilet; Associated with other remaining built structures along the original trajectory and at the Klerksdorp station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_013: Ruined Culvert Airport Road; Culvert single arched; Defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SWL_014: Culvert Stilfontein at Wilge Street; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_015: Culvert Stilfontein at Molopo Street; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_016: Gantries at Stilfontein ; Overhead gantry; Appropriated rail-lines recycled for use as gantries when the lines were electrified. A unique remnant of the original NZASM endeavour.

NZASM_SWL_017: Culvert Stilfontein at Brits and Brink Streets; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_018: Culvert Stilfontein at Neethling Street btw Buffelsfontein and Du Plooy str; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_019: Box Culvert between Stilfontein and Koekemoerspruit Bridge; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_020: Arched culvert btw Stilfontein and Koekemoer Spruit; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_021: Koekemoer Spruit Bridge; Bridge Plate girder multiple span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_022: Well at Koekemoer Spruit; Well; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_023: Sq Culvert east of Koekemoer; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_024: Small Sq Culverts east of Koekemoer Spruit; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_025: Two pier box culvert east of Koekemoer Spruit; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_026: Arched culvert west of Machavie; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_027: Small Box Culvert West of Machavie; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_028: Small Box Culvert West of Machavie; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_029: Bridge west of New Machavie; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_030: Bridge East of New Machavie; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_031: Potch Station House 1; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_032: Potch Station House 2; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_033: Potch Station House 3; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_034: Potch Station House 4; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

03.44 (Right): Gantries carrying overhead electrical lines, manufactured from old NZASM railway track, marked *Bochum 1893* (NZASM_SWL_016).

03.45 (Left): At New Machavie two bridges exist where NZASM rough ashlar abutments are incorporated into be bridges (NZASM_SWL029 and NZASM_SWL_030 (pictured)).





NZASM_SWL_035: Potch Station House 5; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_036: Potch Station House 6; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_037: Potch Station House 7; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_038: Potch Station House 8; Semi-detached house; Associated with other remaining built structures along the original trajectory and at the Potchefstroom station precinct; Important built residue, still in use. Should any development occur, cognisance must be given to its heritage importance.

NZASM_SWL_039: Culvert btw Potch Station and Mooi River; Bridge; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_040: Mooi River Bridge; Bridge Plate girder multiple span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_041: Bridge West of Boskop; Bridge; On the original trajectory, now defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SWL_042: Square Culvert East of Boskop; Culvert triple span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_043: Bridge West of Fredrikstad; Bridge; On the original trajectory, now defunct. Any redevelopment needs to take cognisance of this feature.

NZASM_SWL_044: Tank Stand Fredrikstad; Water tank stand; Original feature on the original trajectory; Could be dismantled and relocated in a living museum and put to original use.

NZASM_SWL_045: Bridge east of Frederikstad; Bridge; On the original trajectory, now defunct;

03.46: The sturdy construction of the NZASM built infrastructure means that even the most humble of culvert is still in service today, such as here outside of Kocksoord in the Randfontein District. (NZASM_SWL_060).

Any redevelopment needs to take cognisance of this feature.

NZASM_SWL_046: Arched Culvert East of Frederikstad; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_047: Arched Culvert East of Frederikstad; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_048: Culvert East of Khutsong; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_049: Culvert East of Khutsong; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_050: Large double culvert at Carletonville; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_051: Water tower at Bank Station; Water tank stand; Original feature on the original trajectory; Could be dismantled and relocated in a living museum and put to original use.

NZASM_SWL_052: Wonderfonteinspruit Bridge; Bridge Flat girder double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_053: Culvert at Kocksrust AH; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_054: Culvert at Kocksrust AH; Culvert double span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_055: Bridge east of Vleikop Station; Bridge Combined; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_056: Culvert at Harveston AH; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_057: Culvert at Harveston AH; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_058: Culvert at 7th Road Kocksoord; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.


NZASM_SWL_059: Culvert at 7th Road Kocksoord; Culvert single span; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.

NZASM_SWL_060: Arched Culvert at Kocksoord; Culvert single arched; On the original trajectory, still in use; Any redevelopment of the line needs to take cognisance of this feature.








Researchers' comments

After the Eastern and South-Eastern Lines, the South-Western Line has the greatest number of extant NZASM features, although, because of the relative lack of outstanding topographic landscape features, these are relatively conventional and less picturesque than those on the afore-said lines. Even though there has been extensive modernisation and change along the trajectory, closer inspection reveals much original NZASM material subsumed into later works. Of particular surprise is the recycling of the original rail lines manufactured by the Bochum steel works of Germany now serving as the steel gantries for the electrification of the line and still doing service, a good example of the sustainable use of heritage material and a consideration in any future heritage actions. On the trajectory are found rare extant structures such as percolation wells and rough-hewn ashlar water-tank pylons, all worthy of conservation.







NUMBER		IDENTIFICATION		LOCATION INFORMATION						COMPLETION DATE	DESCRIPTION	CURRENT LEGAL STATUS		
Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority
NZASM_SWL	001	Klerksdorp Station	Station	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,870629	26,669510	1897	Attractive sandstone station building with coursed ashlar decorative stonework. A large street-facing gables adorns the building, articulated with obelisks, while the rail-facing gable articulated in a Baroque mode. Decorative wrought ironwork and dormer windows further adorn the building.	Fair	Provincial Heritage Resource	PHRA-North West
NZASM_SWL	002	House 1 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,871	26,6698	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	003	House 2 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,8705	26,6708	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	004	House 3 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,8705	26,6708	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	005	House 4 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,8704	26,6708	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	006	House 5 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,8702	26,6709	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	007	House 6 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26,8698	26,671	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a scarce example of a novel design with high aesthetic value and authenticity. The structure forms part of what can be seen as a heritage area. (Government Gazette Notice 1307 of 1983. Historic and architectural interest. This railway station building was completed in 1897 by the Nederlandsche Zuid-Afrikaansche Spoorweg-Maatschappij and is one of only a few elegant station buildings erected by the NZASM. For approximately nine years the Klerksdorp station remained the western terminus of the so-called South-Western line and as such it held an important place in the Transvaal railway network. The Old Flag Room was erected in the same style as the station building.)</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SWL	008	House 7 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8696	26.6712	1897	Structure (General) Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	009	House 8 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8695	26.6728	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	010	House 9 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8692	26.6714	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	011	House 10 Klerksdorp Station	Semi-detached house	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8687	26.6716	1897	Typical NZASM plan double cottage, constructed of brick, on a stone plinth with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Original interior elements include doors and architraves. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	012	House 1ens toilet Klerksdorp Station Klerksdorp Station	Toilet	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8708	26.6696	1897	Single storey men's toilet with end-gables constructed of rough ashlar sandstone. Relocated.	Good	Provincial Heritage Resource	PHRA-North West
NZASM_SWL	013	Ruined Culvert Airport Road	Culvert single arched	North-West	City of Matlosana	Klerksdorp	2016 04 06	-26.8657	26.6858	1897	Single barrel-vaulted rough ashlar culvert.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	014	Culvert Stilfontein at Wilge Street	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.8532	26.7478	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Structure (General)	Condition	Legislative Status
NZASM_SWL	015	Culvert Stilfontein at Molopo Street	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8526	26,7529	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	016	Gantries at Stilfontein	Overhead gantry	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8514	26,7661	1897	Unique gantries constructed of recycled NZASM period steel railway tracks, dated 'Bochum, 1895'	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	017	Culvert Stilfontein at Brits and Brink Streets	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8506	26,7791	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	018	Culvert Stilfontein at Neethling Street between Buffelsfontein and Du Plooy str.	Culvert single arched	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8503	26,7845	1897	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	019	Box Culvert between Stilfontein and Koekemoerspruit Bridge	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8356	26,8209	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	020	Arched culvert between Stilfontein and	Culvert single arched	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,8357	26,823	1897	Single barrel-vaulted rough ashlar culvert incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	021	Koekemoerspruit Bridge	Plate girder multiple span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26,833	26,8321	1897	Large double-span bridge over the Koekemoerspruit, originally carried fish-belly girder trusses, since replaced.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
<p>These objects being part of the larger NZASM endeavour, fall under the generic NZASM statement of significance, but specifically are also unique extant examples of their type. Their importance lies in their associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; they have the potential to yield information for understanding; as objects they demonstrate principal characteristics; have particular aesthetic characteristics; demonstrate a high degree of technical achievement; have strong and special associations with both historic and contemporaneous communities; have a special association with the life and work of an important organisation and its associated persons; all as they relate to the culture of South Africa and her international cultural historic affiliates. These gantries, form an array, their particular significance being that they were constructed from original NZASM rail tracks.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	COMPLETION DATE	Structure (General)	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SWL	022	Well at Koekemoerspruit	Well	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.8331	26.832	1897	Unique remaining NZASM-period well, located next to the Koekemoer Spruit, constructed as water source for steam locomotives.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	023	Sq Culvert east of Koekemoer	Culvert double span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.8313	26.8367	1897	Rough stone narrow double box-culvert with incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	024	Small Sq Culverts east of Koekemoer	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.8282	26.8508	1897	Rough stone narrow double box-culvert with incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	025	Two pier box culvert east of Koekemoer	Culvert double span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.827	26.8545	1897	Rough stone narrow double box-culvert with incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	026	Arched culvert west of Machavie	Culvert single arched	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.831	26.8415	1897	Single barrel-vaulted rough ashlar culvert incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	027	Small Box Culvert west of Machavie	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.8162	26.883	1897	Rough stone narrow box-culvert with flanking embankment walls incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	028	Small Box Culvert west of Machavie	Culvert single span	North-West	City of Matlosana	Stilfontein	2016 04 06	-26.796	26.9162	1897	Rough stone narrow box-culvert with flanking embankment walls incorporated into later reinforced concrete culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. It is a rare (one of two known) example of a percolation well constructed to water the steam engines that operated the line.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates.</p>	Grade II Provincial Heritage Site	
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Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude	COMPLETION DATE	Structure (General)	Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SWL	029	Bridge west of New Machavie	Bridge	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7947	26,9191	1897	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	030	Bridge east of New Machavie	Bridge	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,791	26,9278	1897	Single span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	031	Potch Station House 1	Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7116	27,0837	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of a ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	032	Potch Station House 2	Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7119	27,0839	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of a ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	033	Potch Station House 3	Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7119	27,0839	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of a ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	034	Potch Station House 4	Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7124	27,0841	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of a ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	035	Potch Station House 5	Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7125	27,0842	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of a ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the concrete steel superstructure is of a later date, it retains the function of the original as a heritage resource.</p>	Grade II Provincial Heritage Site	
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While the concrete steel superstructure is of a later date, it retains the function of the original as a heritage resource.</p>	Grade II Provincial Heritage Site	
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	Line ID No.	Artefact Name Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SWL	036	Potch Station House 6 Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7128	27,0845	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	037	Potch Station House 7 Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7131	27,0846	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	038	Potch Station House 8 Semi-detached house	North-West	City of Tlokwe	Potchefstroom	2016 04 06	-26,7135	27,0847	1897	Typical NZASM plan double cottage, constructed of brick, with shared street facing gable, covered with corrugated sheet metal saddle roof on timber trusses. Part of an ensemble of significance.	Good	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	039	Culvert Btw Ptch station and Mooi River Bridge	North-West	City of Tlokwe	Potchefstroom	2016 04 05	-26,7068	27,0837	1897	Double span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	040	Mooi River Bridge Bridge Plate girder multiple span	North-West	City of Tlokwe	Potchefstroom	2016 04 05	-26,662	27,0889	1897	Large multi-span bridge over the Mooi River, originally carried fish-belly girder trusses, since replaced with plate girder spans. Line widened with addition of reinforced concrete bridge adjacent.	Poor	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	041	Bridge west of Boskop Bridge	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016 04 05	-26,575047	27,126502	1897	Single span rough ashlar built plate girder bridge with shock absorb arches. Steel spans removed and bridge abandoned.	Derelect	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	042	Square Culvert east of Boskop Culvert triple span	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016 04 05	-26,5553	27,1313	1897	Double span rough ashlar constructed bridge, originally carrying steel spans, currently carrying concrete deck spans.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West

STATEMENT OF SIGNIFICANCE	GRADING	ID IMAGE
<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. The structure forms part of what can be seen as a heritage area.</p>	Grade II Provincial Heritage Site	
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	Line ID	No.	Artefact Name	Type	Province	Local Authority	Town	Date Recorded			Latitude	Longitude	Condition	Legislative Status
NZASM_SWL	043	Bridge west of Fredrikstad	Bridge	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016-04-05	-26,5388	27,1348	1897	Triple-span rough ashlar and concrete built box culvert.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	044	Tank Stand Fredrikstad	Water tank stand	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016-04-05	-26,5078	27,1518	1897	Rough ashlar walls formerly carrying steel water tanks.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	045	Bridge east of Frederikstad	Bridge	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016-04-05	-26,5028	27,1548	1897	Single span rough ashlar built and concrete plate girder bridge with shock absorb arches. Steel spans removed and bridge abandoned.	Derelict	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	046	Arched Culvert east of Frederikstad	Culvert single arched	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016-04-05	-26,4908	27,1535	1897	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	047	Arched Culvert east of Frederikstad	Culvert single arched	North-West	Dr Kenneth Kaunda District Municipality	Potchefstroom	2016-04-05	-26,4848	27,1545	1897	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-North West
NZASM_SWL	048	Culvert east of Khutsong	Culvert single span	Gauteng	Merafong City Local Municipality	Carltonville	2016-04-05	-26,3498	27,3601	1897	Rough stone-built narrow double box-culvert with concrete parapet.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	049	Culvert east of Khutsong	Culvert single span	Gauteng	Merafong City Local Municipality	Carltonville	2016-04-05	-26,349	27,364	1897	Rough stone-built narrow double box-culvert with concrete parapet.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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	Line ID No.	Artefact Name Type	Province	Local Authority	Town	Date Recorded	Latitude	Longitude			Condition	Legislative Status	Heritage Authority Jurisdiction
NZASM_SWL	050	Large double culvert at Carletonville Culvert double span	Gauteng	Merafong City Local Municipality	Carletonville	2016 04 05	-26,3458	27,3781	1897	Rough stone-built wide double box-culvert, originally carrying short-span steel plate girders, since replaced with reinforced steel decks.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	051	Water tower at Bank Station Water tank stand	Gauteng	Merafong City Local Municipality	Carletonville	2016 04 05	-26,312510	27,510805	1897	Rough ashlar walls, extended upwards in brick and concrete carrying steel water tanks. Corrugated sheet metal pump house located between parallel walls.	Poor	Section 35 NHRA (Archaeology) cognisant of Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	052	Wonderfontein spruit Bridge Bridge Flat girder double span	Gauteng	Merafong City Local Municipality	Carletonville	2016 04 05	-26,306128	27,524204	1897	Double-span steel girder bridge. Rough ashlar stone embankment abutments and piers with concrete caps.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	053	Culvert at Kocksrust AH Culvert double span	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,3004	27,5452	1897	Rough stone double box-culvert with parapet.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	054	Culvert at Kocksrust AH Culvert double span	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2873	27,5866	1897	Rough stone-built narrow double box-culvert with concrete parapet.	Poor	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	055	Bridge east of Vleikop Station Bridge Combined	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2587	27,5971	1897	Double-span steel girder bridge. Rough ashlar stone embankment abutments and piers with concrete caps. Plate girder concrete encasing of the piers of later date.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	056	Culvert at Harveston AH Culvert single span	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2563	27,6077	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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<p>This structure, being part of the larger NZASM endeavour, falls under the generic NZASM statement of significance, but specifically is also a good extant example of its type. Its importance lies in its associations with South Africa's community, heritage, and is considered uncommon, rare and endangered; it has the potential to yield information for understanding; as an object it demonstrates principal characteristics; has particular aesthetic characteristics; demonstrates a high degree of technical achievement; has strong and special associations with both historic and contemporaneous communities; has a special association with the life and work of an important organisation and its associated persons; and is significant in revealing labour practices of the time; all as they relate to the culture of South Africa and her international cultural historic affiliates. While piers are cast into concrete and the steel superstructure is of a later date, it mimics and reminds of the original and as a heritage resource too retains similar significance.</p>	Grade II Provincial Heritage Site	
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NZASM_SWL	057	Culvert at Harveston AH	Culvert single span	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,252	27,6142	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	058	Culvert at 7th Road Kocksoord	Culvert single arched	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2369	27,6376	1897	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	059	Culvert at 7th Road Kocksoord	Culvert single span	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2348	27,6407	1897	Rough stone narrow box-culvert with flanking embankment walls.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng
NZASM_SWL	060	Arched Culvert at Kocksoord	Culvert single arched	Gauteng	Randfontein Local Municipality	Randfontein	2016 04 05	-26,2279	27,6486	1897	Single barrel-vaulted rough ashlar culvert.	Fair	Section 34 NHRA (60 year clause)	PHRA-Gauteng

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