

Postbus 718, 6800 AS Arnhem, Nederland  
Rijkswaterstaat, Zee en Delta

Postbus 5014  
4330 KA MIDDELBURG

<b>DATUM</b>	17 oktober 2016
<b>UW REFERENTIE</b>	RWSV2015-00001529 RWS-2015/
<b>ONZE REFERENTIE</b>	000.145.20/

**BETREFT** Wijziging toezenden gewijzigde bijlagen project ZW380 West

Geachte heer, mevrouw,

Op 4 maart 2016 heeft u een ontwerpbesluit op onze aanvraag om vergunning op basis van de wet beheer rijkswaterstaatswerken voor de realisatie van de hoogspanningsverbinding Zuid-West 380kV-West (ZW380) ter inzage gelegd. Tegen het inpassingsplan en de bijbehorende uitvoeringsbesluiten voor deze hoogspanningsverbinding zijn meerdere zienswijzen ingediend.

Naar aanleiding van de zienswijzen en de overleggen die gedurende de procedure hebben plaatsgevonden met rechthebbenden, zijn wij voornemens een aantal wijzigingen door te voeren ten aanzien van de verbinding en de realisatie daarvan.

Deze wijzigingen hebben gevolgen voor de omgevingsvergunningen van de gemeenten Borssele, Kapelle en Reimerswaal alsmede de Waterwetvergunning van Waterschap Scheldestromen.

Wij verzoeken u om een aantal gegevens in de huidige aanvraag te vervangen door onderhavige gegevens. In de bijgevoegde aangepaste bijlagenlijst is gearceerd weergegeven welke bijlagen aangepast zijn.

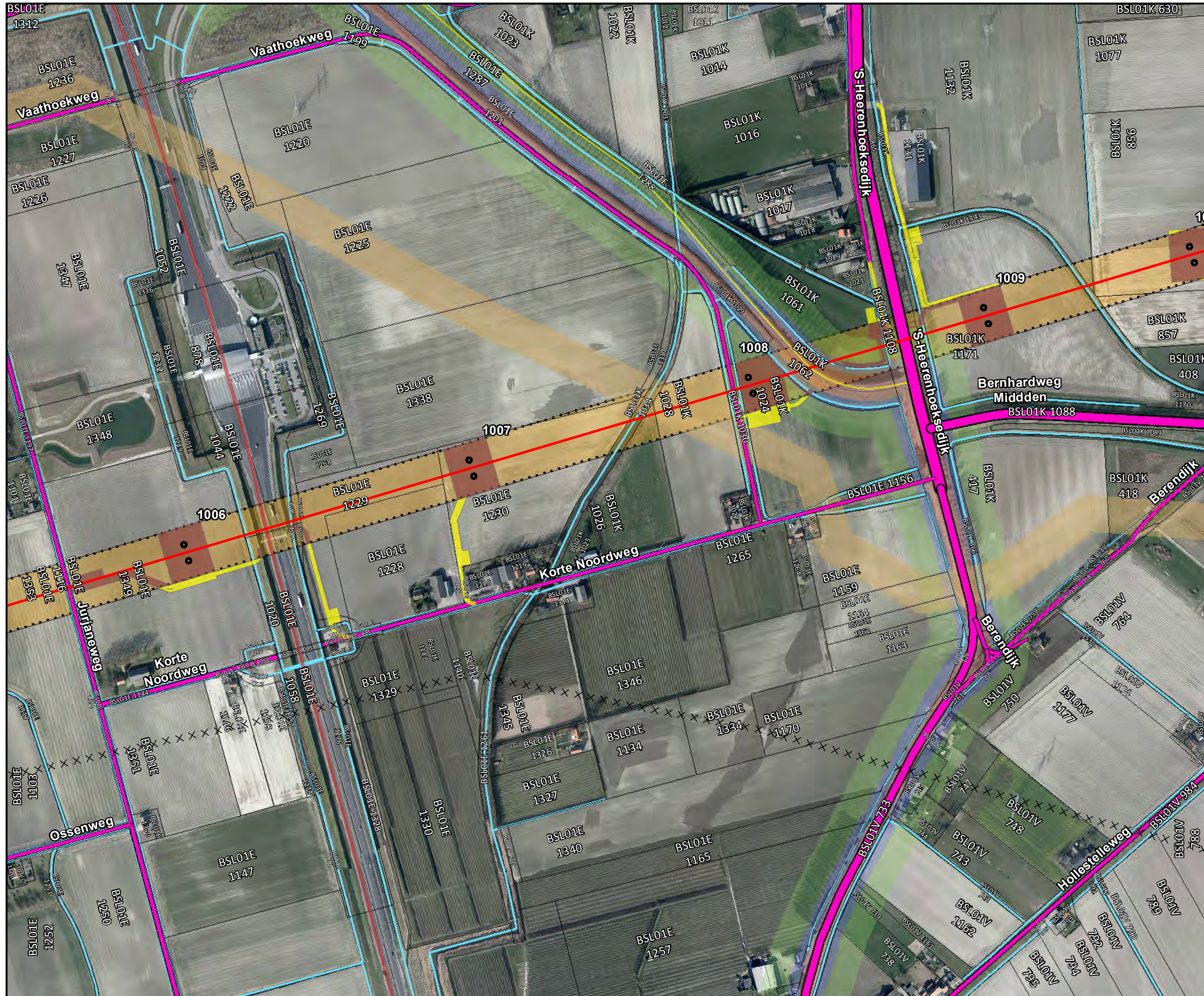
- bijlage 3 - situatietekeningen (*vervangen*)
- bijlage 5 - lengteprofielen DT1 (*vervangen*)

Wij verzoeken u om onderhavige gegevens mee te nemen in uw besluit en daarmee de vergunning ongewijzigd vast te stellen.

Wij hopen u hiermee voldoende te hebben geïnformeerd. Ingeval van vragen of onduidelijkheden verzoeken wij u contact met ons op te nemen.



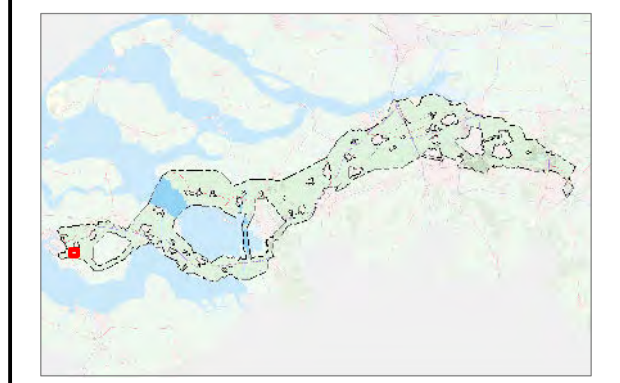
Bijlage 3  
Situatietekeningen



### Legenda

- Bovengrondse 380kV verbinding
- Bovengrondse 150kV verbinding
- Ondergrondse 150kV verbinding
- Pole
- Fundaties
- ⊠ Vakwerkmast
- × × 160824\_amoveren
- Werkwegen/terreinen binnen plangrens
- Werkwegen/terreinen buiten plangrens
- Waterschapswegen
- Provinciale wegen
- Gemeentelijke wegen
- station kruising contouren
- Gemeentegrenzen
- Kadastrale percelen
- Buisleidingenstrook
- waterlopen
- Waterkeringszone A
- Waterkeringszone B
- Waterkeringszone C
- Grens inpassingsplan
- Corridor

Zuid • West 380 kV VKA v3.0



Revisiedatum	05-10-2016	Formaat	A3
Aanmaakdatum	05-10-2016	Schaal	1:5.000
Versie	zw380 v3.0	Blad	Pag. 2 of 10

**Kenmerk**  
 A:\p\_zw380\producten\ZW380-West\vergunningen\161005\_WW-WT\_tov\_RIP\161025p\_zw-w380\_Borsele

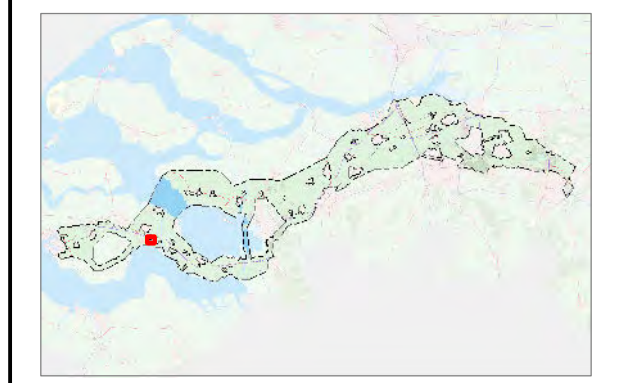
0 50 100 150 200 250 m

Aan deze tekening kunnen geen rechten worden ontleend. © TenneT TSO B.V.



### Legenda

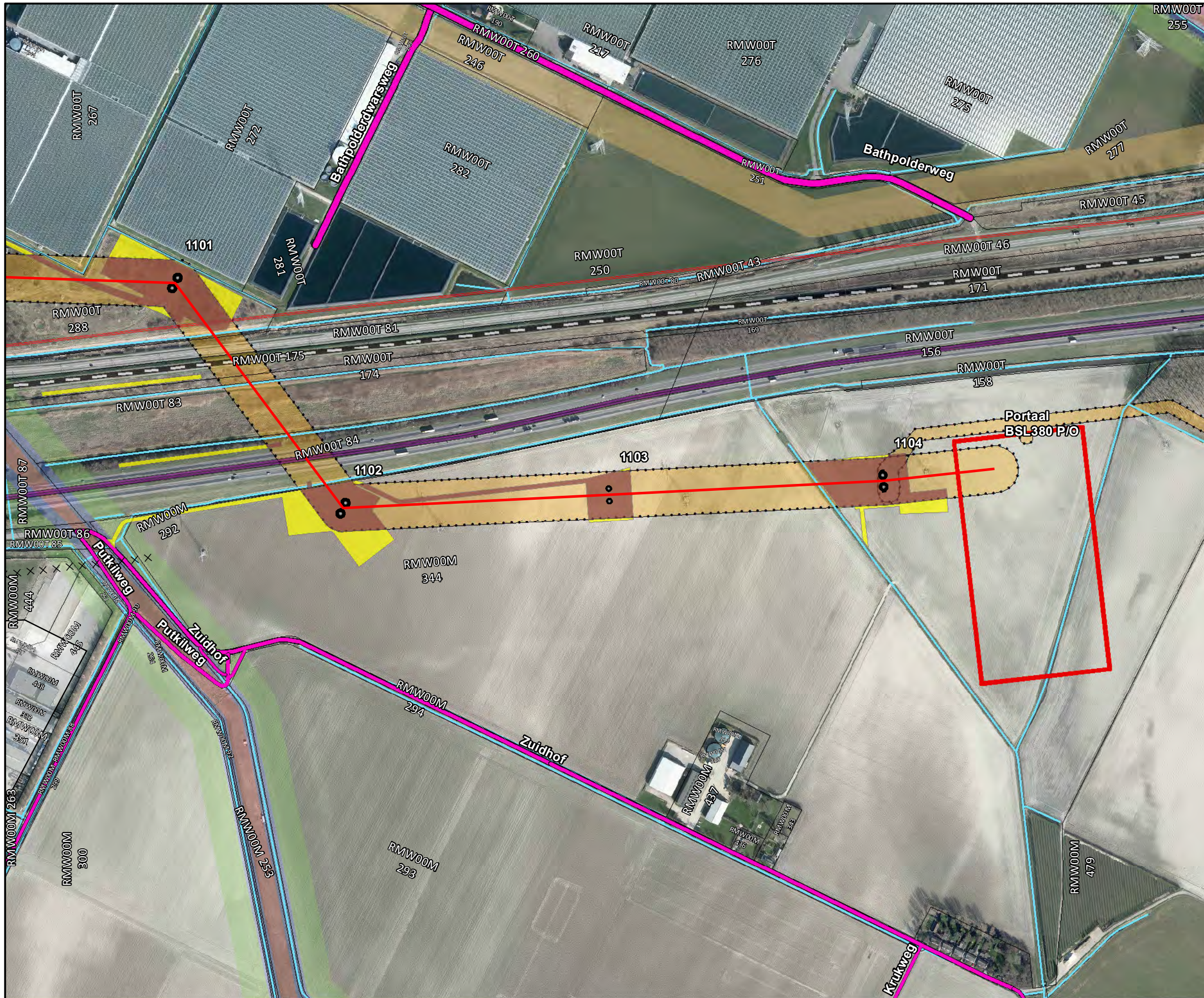
- Bovengrondse 380kV verbinding
- Bovengrondse 150kV verbinding
- Ondergrondse 150kV verbinding
- Pole
- Fundaties
- ⊠ Vakwerkmast
- × × 160824\_amoveren
- Werkwegen/terreinen binnen plangrens
- Werkwegen/terreinen buiten plangrens
- Waterschapswegen
- Provinciale wegen
- Gemeentelijke wegen
- station kruising contouren
- Gemeentegrenzen
- Kadastrale percelen
- Buisleidingenstrook
- waterlopen
- Waterkeringszone A
- Waterkeringszone B
- Waterkeringszone C
- Grens inpassingsplan
- Corridor



Revisiedatum	06-10-2016	Formaat	A3
Aanmaakdatum	05-10-2016	Schaal	1:5.000
Versie	zw380 v3.0	Blad	Pag. 4 of 5

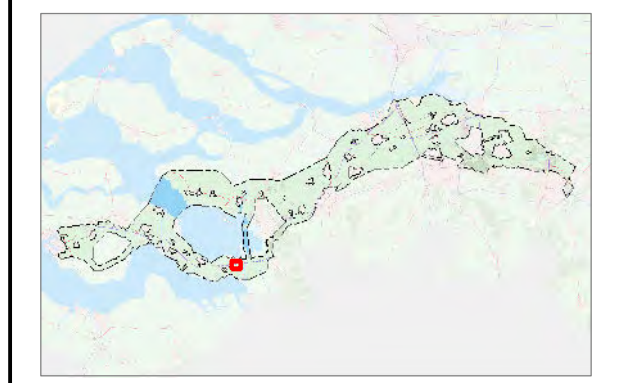
**Kenmerk**  
 A:\p\_zw380\producten\ZW380-West\vergunningen\161005\_WW-WT\_tov\_RIP\161025p\_zw-w380\_Kapelle

0 50 100 150 200 250 m



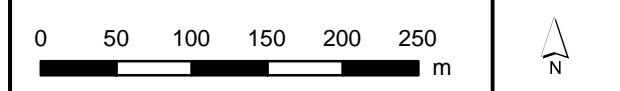
### Legenda

- Bovengrondse 380kV verbinding
- Bovengrondse 150kV verbinding
- Ondergrondse 150kV verbinding
- Pole
- Fundaties
- ⊠ Vakwerkmast
- × × 160824\_omverren
- Werkwegen/terreinen binnen plangrens
- Werkwegen/terreinen buiten plangrens
- Waterschapswegen
- Provinciale wegen
- Gemeentelijke wegen
- station kruising contouren
- Gemeentegrenzen
- Kadastrale percelen
- Buisleidingenstrook
- waterlopen
- Waterkeringszone A
- Waterkeringszone B
- Waterkeringszone C
- Grens inpassingsplan
- Corridor



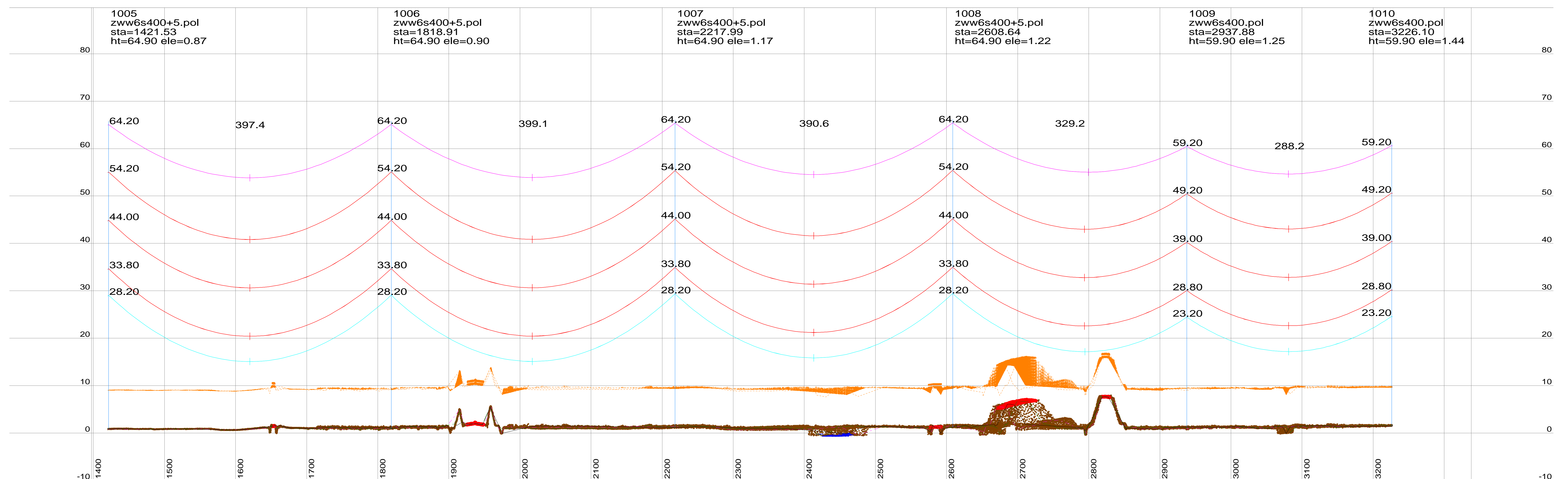
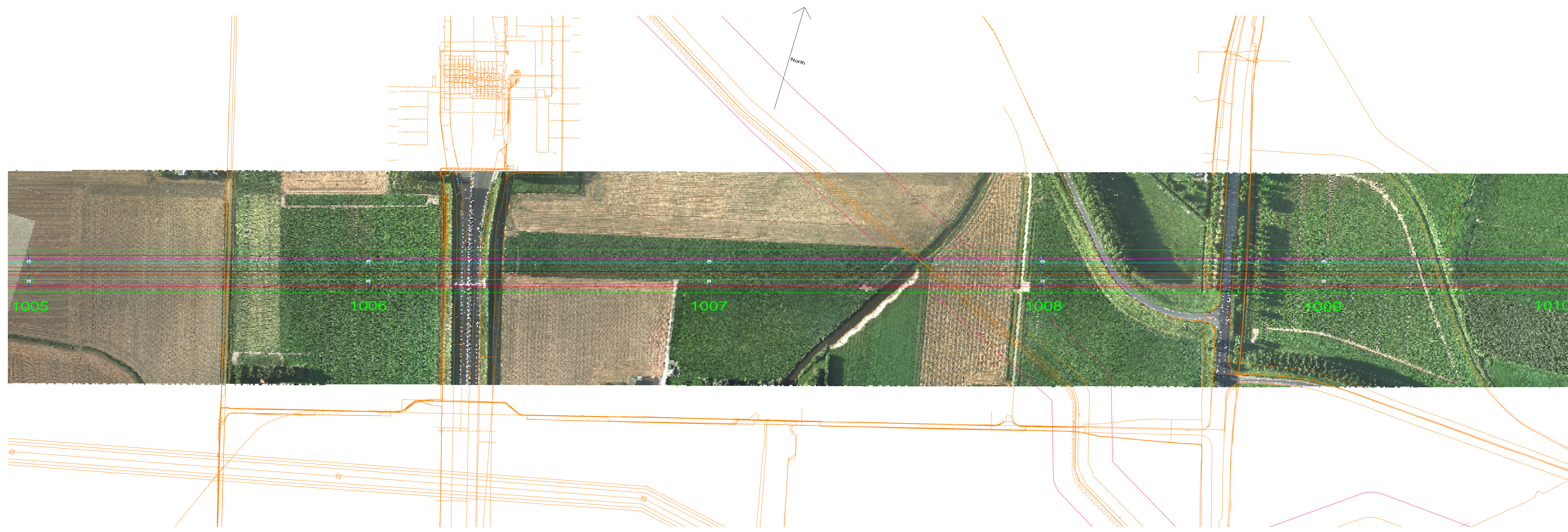
Revisiedatum	05-10-2016	Formaat	A3
Aanmaakdatum	05-10-2016	Schaal	1:5.000
Versie	zw380 v3.0	Blad	Pag. 11 of 15

**Kenmerk**  
 A:\p\_zw380\producten\ZW380-West\Vergunningen\161005\_WW-WT\_tov\_RIP\161025p\_zw-w380\_Reimerswaal



Aan deze tekening kunnen geen rechten worden ontleend. © TenneT TSO B.V.

**Bijlage 5**  
**Lengteprofielen DT1**



**Notes:**

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.
3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).
4. Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR
5. Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line). RSG shown represents the center of the bundle (200mm conductor separation).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings "000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by TenneT on 13-06-2014.
7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by TenneT on 11-02-2014.
8. Tower Details are shown as Follows:  
1105 (Tower Number) ZWW2E400 (Tower type)  
sta=564.07 (Station of Tower)  
ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)
9. All dimensions are in metres.

**Centre Line / Side Profile Key:**

- Centreline Profile
- Left Side Profile at -25m From Centreline.
- Right Side Profile at 25m From Centreline.

**Conductor Key:**

- Conductor phase shown at 70°C (150 kV) (Creep RS)
  - Conductor phase shown at 70°C (380 kV) (Creep RS)
  - Earthwire shown at 15°C (Creep RS)
  - OPGW shown at 15°C (Creep RS)
  - RSG shown at -5°C + Ice (Creep RS)
- Note: Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7

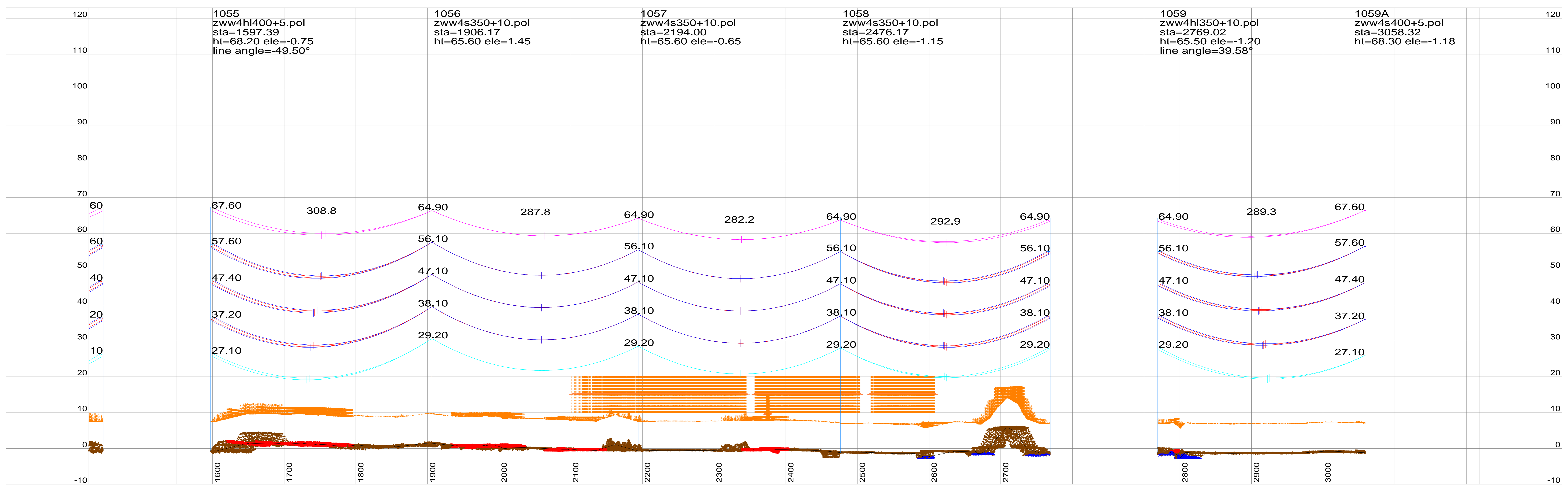
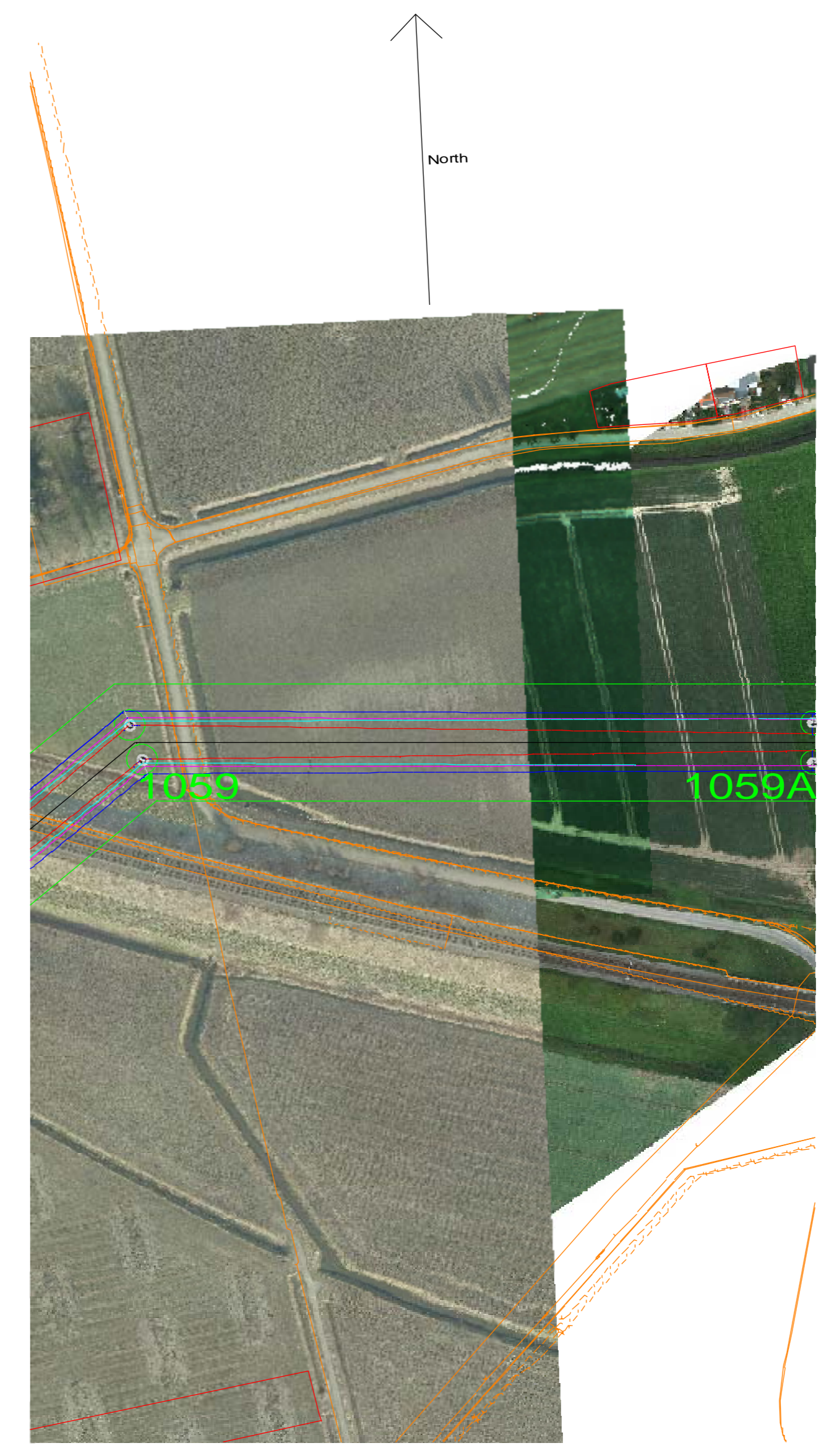
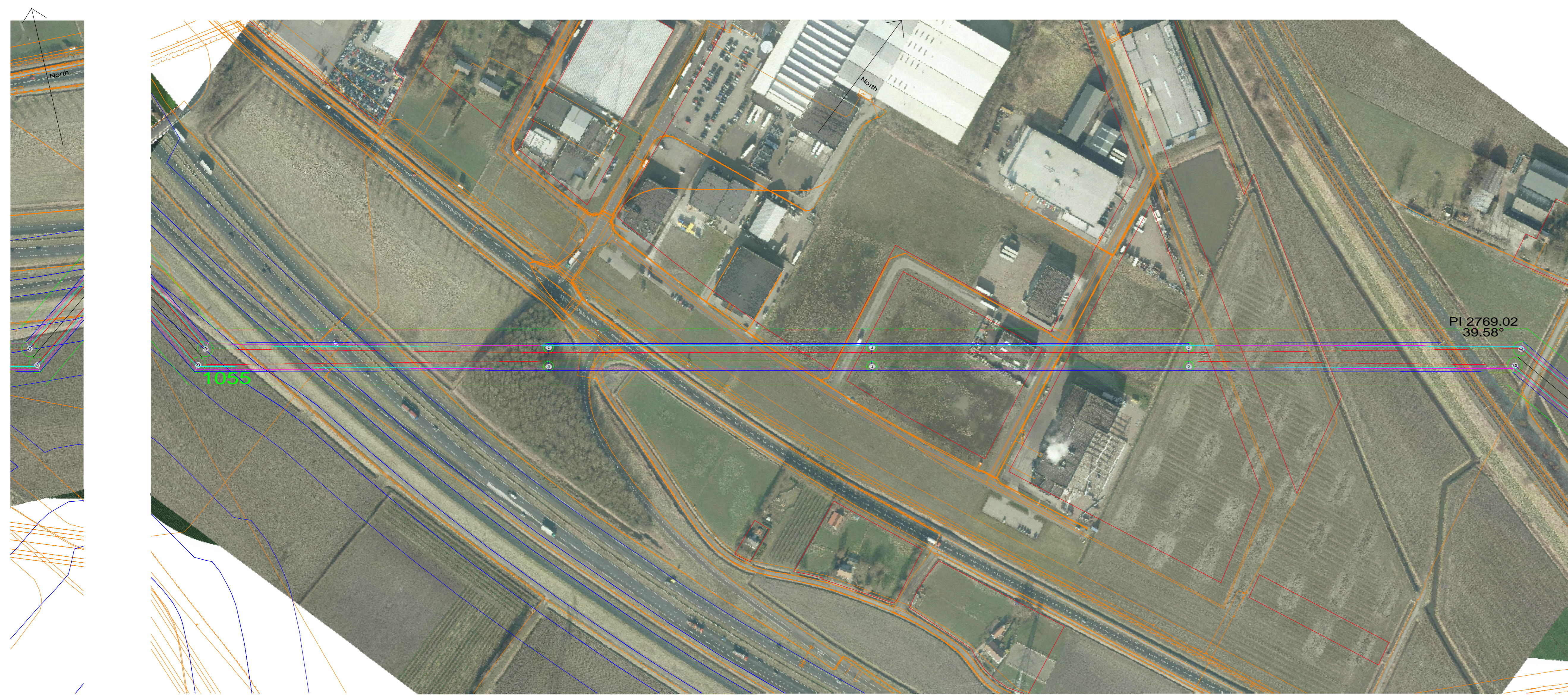
Rev	Date	Description	By	Chk	App
P11	06-07-2016	Eleventh Issue Preliminary Line Profile Drawings	AS	JAW	MVN
P10	11-08-2015	Tenth Issue Preliminary Line Profile Drawings	TG	MV	MVN
P9	19-08-2014	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MVN

**Preliminary Line Profile Drawings**  
Section DT1 (Structure 1001 to 1050)  
Temperature conductor phase at 70°C

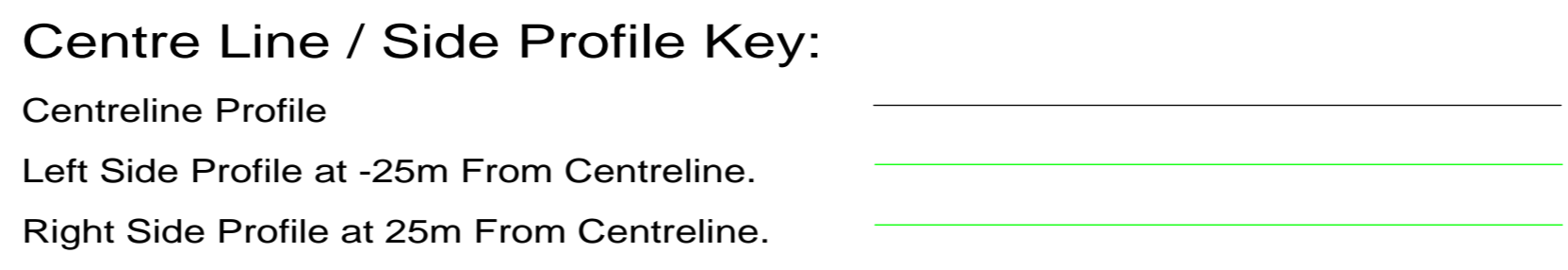
Project: **Borssele-Tilburg ZW380**      Originate: AS      Checker: JAW  
Approver: MVN      Date: 12-07-2016

**Movares**      Project 2855  
3500 OIV Usseste      3500 OIV Usseste  
Tel: 030 - 265 5555      Tel: 030 - 265 5555





- Notes:**
1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
  2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.
  3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).
  4. Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC  
E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR
  5. Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line).  
RSG shown represents the center of the bundle (200mm conductor separation).
  6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings  
"000.145.11 0254226 Mastenontwerpdossier vers.zip" provided by Tennet on 13-06-2014.
  7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.
  8. Tower Details are shown as Follows:  
1105 (Tower Number) ZWW2E400 (Tower type)  
sta=564.07 (Station of Tower)  
ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)
  9. All dimensions are in metres.



Note:  
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.  
- Alternative conductor types may deviate from the temperature shown (70°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	•	11.8	11	8.2
Railways	•	14	13.2	11.4
Highways	•	12.7	11.9	10.1
Buildings	•	7.7	6.9	5.1
Water	•	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	•	5.2	5.2	4.4
Foundation Area	•			
Pole	•			
Buried Services	•			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

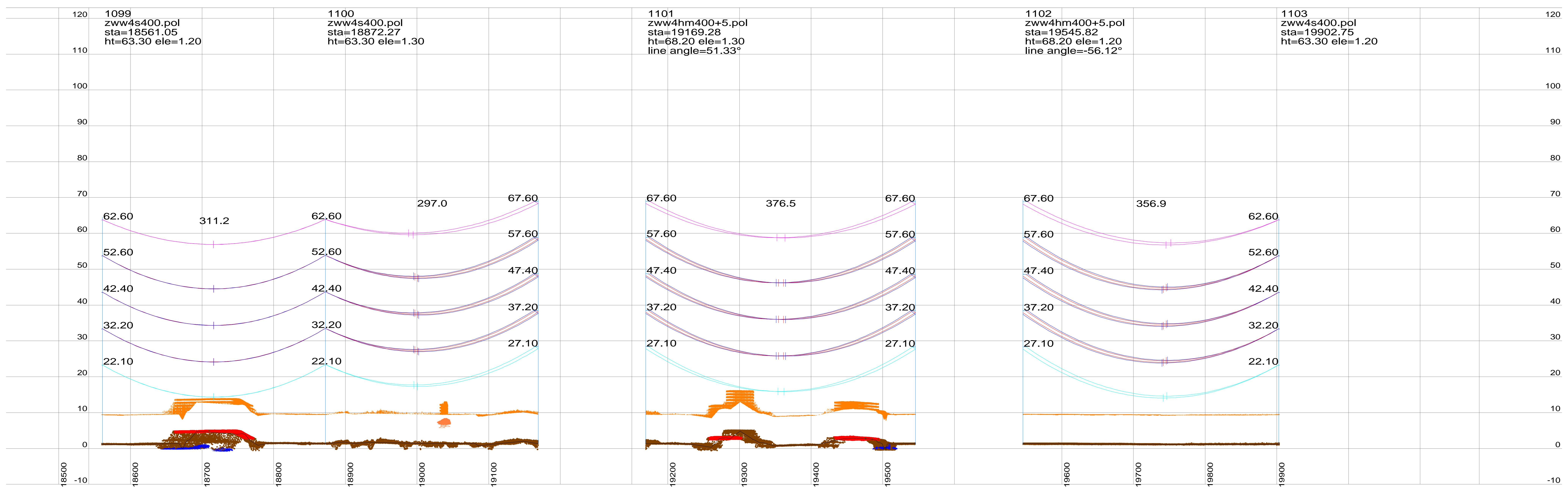
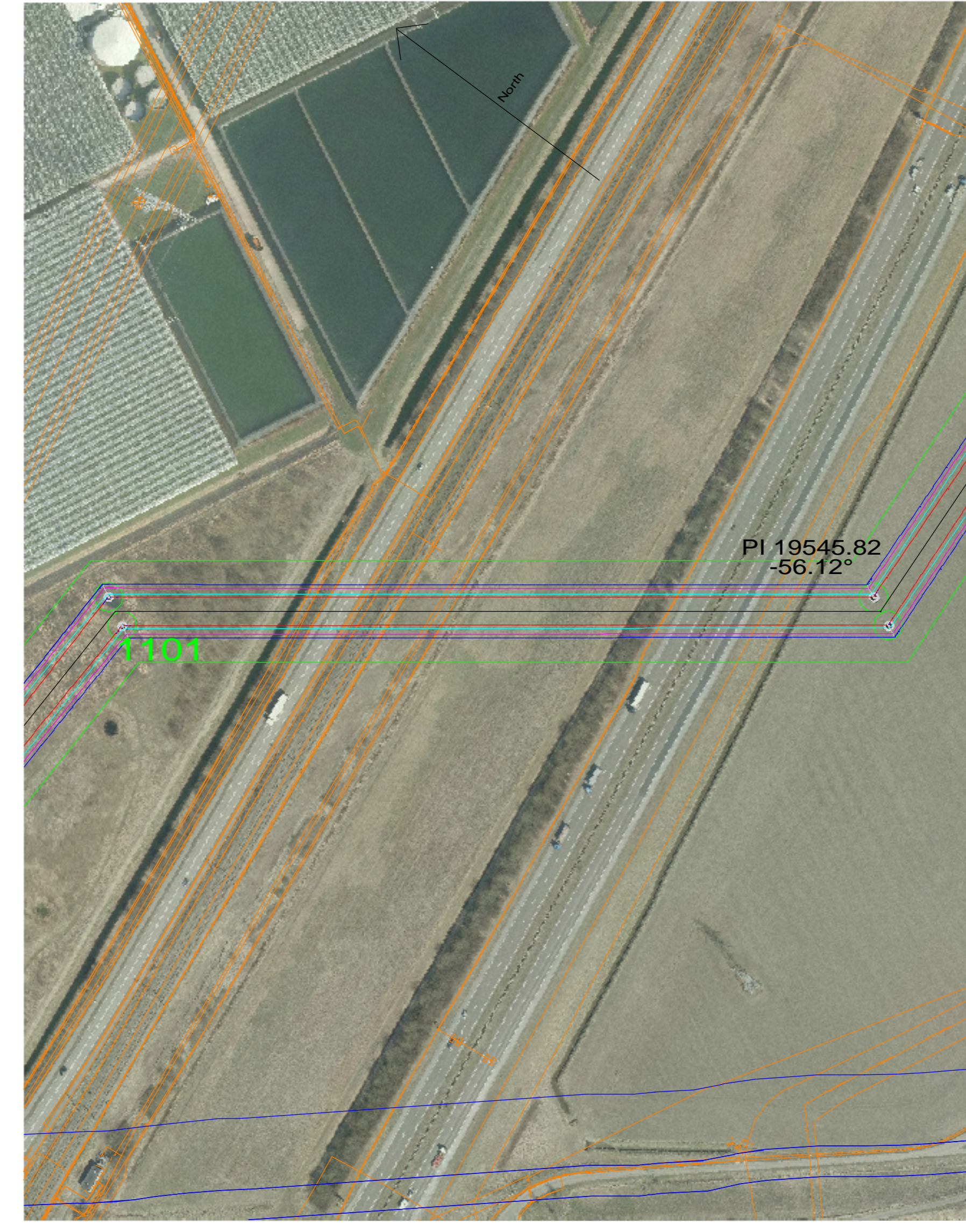
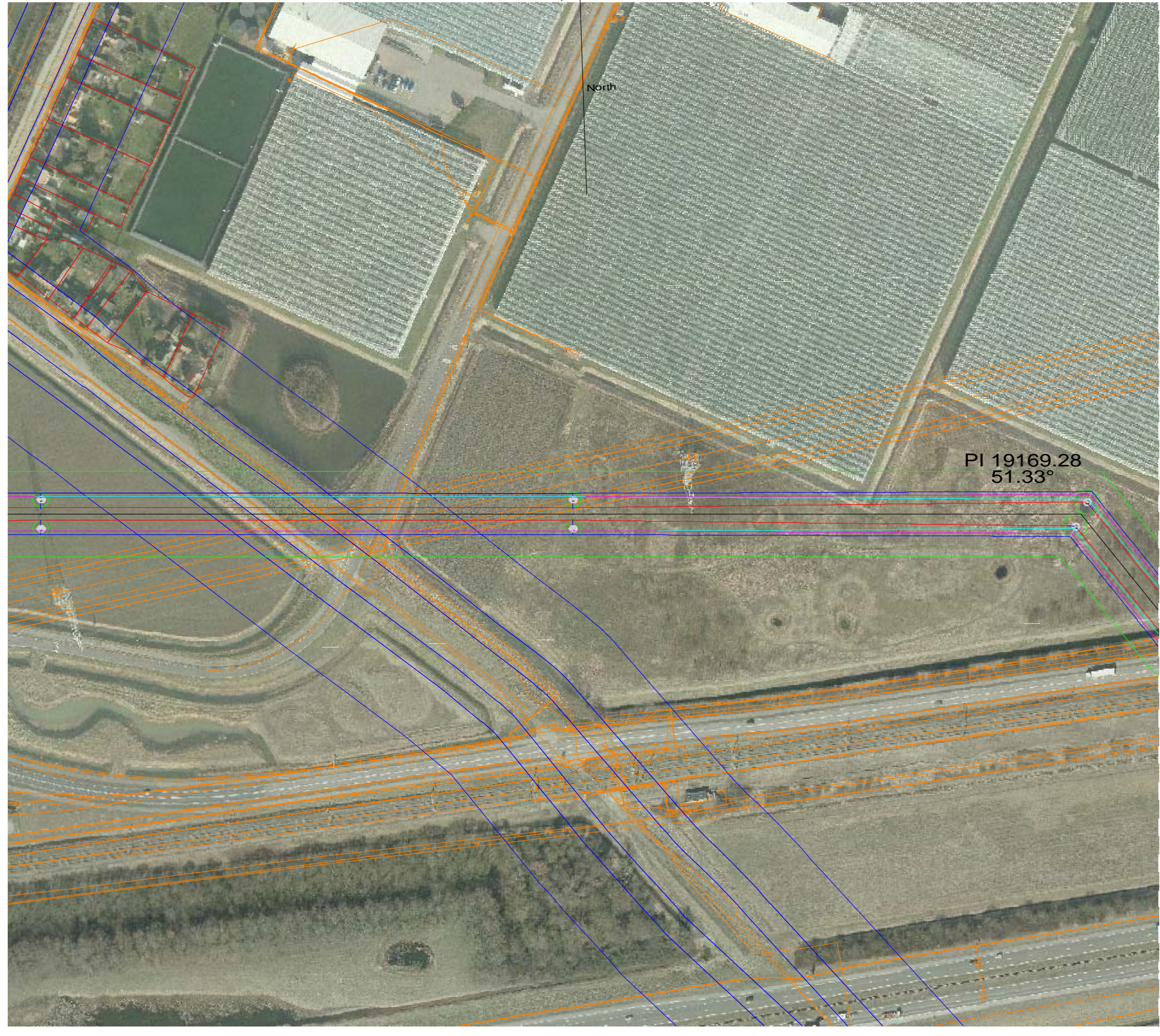
**Preliminary Line Profile Drawings**  
Section DT2 (Structure 1050 - 1104)  
Temperature conductor phase at 70°C

**Borssele-Tilburg ZW380**

Originator: AS  
Approver: MvN  
Checker: JAW  
Date: 12-07-2016

**Movares**  
adviseurs & ingenieurs

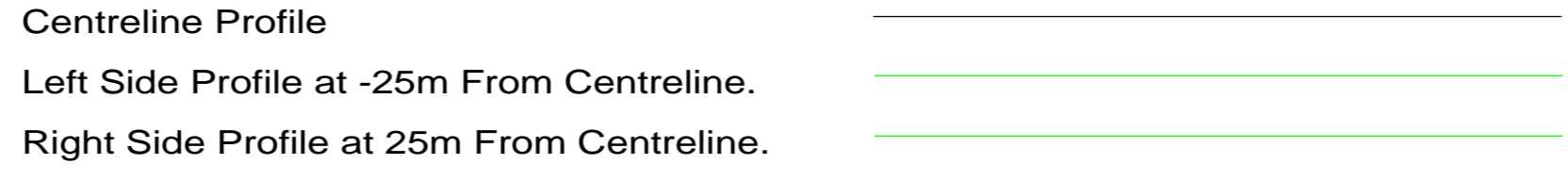
Postbus 2855  
3500 DR Utrecht  
Tel: 030 - 295 5555



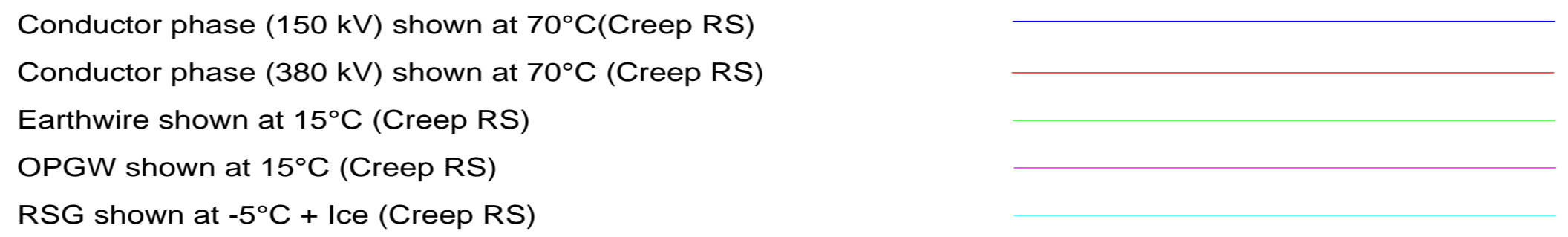
**Notes:**

1. PLS CADD Model based on Survey data supplied by Fugro and post processed by Movares.
2. Phase Conductor & Earthwire properties based on cable files provided by TenneT.
3. Phase Conductor & Earthwire Stringing (New Wintrack line) based on Max Catenary 1800m @ 10°C (Creep RS).
4. Phase Conductor Shown (New Wintrack line) – Twin / Quad AMS 620 AAAC  
E/W Conductor Shown (New Wintrack line) – Hawk OPGW ACSR
5. Phase Conductor shown represents the middle of the bundle (500mm conductor separation new Wintrack line).  
RSG shown represents the center of the bundle (200mm conductor separation).
6. This drawing is produced using PLS-Pole Models (New Wintrack line) based on dimensions from pole drawings  
"000.145.11 0254226 Mastenontwerp.dossier vers.zip" provided by Tennet on 13-06-2014.
7. Insulator lengths are based on the 380kV and 150kV V-brace drawings provided by Tennet on 11-02-2014.
8. Tower Details are shown as Follows:  
1105 (Tower Number) ZWW2E400 (Tower type)  
sta=564.07 (Station of Tower)  
ht=40.89 (Tower Height) ele=9.92 (Elevation at Ground Level)
9. All dimensions are in metres.

**Centre Line / Side Profile Key:**



**Conductor Key:**



Note:  
- Load RS / Max Sag RS Cable conditions not assessed for these preliminary profile drawings.  
- Alternative conductor types may deviate from the temperature shown (70°C), please refer to the provided section table.

Feature Description	Symbol	380kV-Radial Clearance (m)	150kV-Radial Clearance (m)	0kV-Radial Clearance (m)
Ground	•	10.8	10	8.2
Roads	+	11.8	11	8.2
Railways	×	14	13.2	11.4
Highways	•	12.7	11.8	10.1
Buildings	•	7.7	6.9	5.1
Water	~	>8.3	>8.5	>8.7
Zuid-Beverland Kanaal	~	5.2	5.2	4.4
Foundation Area	⊗			
Pole	⊙			
Buried Services	⊖			

Rev	Date	Description	By	Chk	App
P10	06-07-2016	Tenth Issue Preliminary Line Profile Drawings	AS	JAW	MvN
P9	12-06-2015	Ninth Issue Preliminary Line Profile Drawings	TG	MV	MvN
P8	19-06-2014	Eighth Issue Preliminary Line Profile Drawings	TG	MV	MvN

**Preliminary Line Profile Drawings**  
Section DT2 (Structure 1050 - 1104)  
Temperature conductor phase at 70°C

**Borssele-Tilburg ZW380**  
Originator: AS  
Approver: MvN  
Checker: JAW  
Date: 12-07-2016

**Movares**  
adviseurs & ingenieurs  
Postbus 2855  
3500 DR Utrecht  
Tel: 030 - 265 5565