Vejledning til TerraModel - dannelse af 3D vejdefinition udfra 2D tegninger.

Denne vejledning er en hjælp til dannelse af 3D vejdefinition til eksport til TGO og derfra videre til SiteVision

Følgende moduler til TerraModel er nødvendige: Field Data Module, CAD.

Der tages udgangspunkt i centerlinie og arbejdsgangen er følgende:

- 2D plan tegningen importeres i TerraModel Plan view
- (HAL) Den horisontale linieføring dannes og gemmes i Road job manageren.
- 2D tegningen af længdeprofilet importeres i TerraModel Profile View
 - Profilet rettes til, evt. skaleres og flyttes
- (VAL) Det færdige længdeprofil gemmes i Road job manageren
- Sluttelig udlæses den samlede vejdefinition centerlinien til fil (Roadline 3D).
- Filen importeres i TGO, hvor tværsnit profilerne editeres og hægtes på vejen
- Det endelige resultat kontrolleres, udlæses i DC format
- DC formatet indlæses i SiteVision

Import af DWG/DXF fil i TerraModel - Den horisontale linieføring.

Nyt projekt i TerraModel oprettes og de plane data importeres i Plan View



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Centerlinien udpeges og gives labels - tekster (stationeringstekster) for at kontrollerer, at linien repræsenterer hele vejens længde.

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Der er nu tekster med stationering på den horisontale linieføring. Det kontrolleres.



Den horisontale linieføring skal nu gemmes i HAL - manageren

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Udpeg den horisontale linieføring igen, og giv den et godt navn - overskriv det foreslåede (HAL1), idet der kan gemmes mange veje i et projekt.

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Den horisontale linieføring er nu klar til at blive gemt sammen med den vertikale linieføring (længdeprofilet).

Import af DWG/DXF fil i TerraModel - Den vertikale linieføring.

Profiltegningen af vejen importeres i Profil View.



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Nu vælges Profile View for at se tegningen. Hvis denne menu ikke er tilstede - gem projektet og åbn det igen.





Længdeprofilet findes og isoleres. Zomm ind og tast kommandoen id/Enter



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Profilet skal i dette tilfælde trimmes, idet der er små lodrette liniestykker forbundet til profilet. Desuden skal cirkelstykkerne slettes og erstattes af nye cirkelstykker, idet længdeprofilet skal være ét sammenhængende stykke inklusiv cirkelstykker, der ikke må være små liniestykker.

Kommandoen BREAK bruges for at skille de lodrette linier fra profilet og DELETE for at slette den lodrette linier - når de er skilt fra.

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Når ALLE små lodrette liniestykker er slettet i begge ender af linierne og cirkelbue er slettet kan en ny cirkelbue indsættes. Brug kommandoen FILLET.



Udpeg de to liniestykker og indtast cirkelradius - husk målforholdet!.

Når cirkelstykket er dannet skal det sættes sammen med de tilstødende linier. Brug kommandoen JOIN.

Hele længdeprofilet gennemgås på denne måde, idet målet er én sammenhængende linie - længdeprofil.



Slutteligt skal linie flyttes hen til den korrekte start kote og kurven skal skaleres til den korrekte skala - samme skala i Y og X.

Flyt kurven med kommandoen MOVE



Udpeg linie - udpeg startpunktet og indtast hvor linien skal flyttes hen - Startstationering og kote.

Skalér efterfølgende med kommandoen SCALE



Udpeg linien - udpeg startpunktet - indtast skalefaktor i X (f.eks. 10) og i Y (f.eks. 1)

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Udpeg linien - kontroller stationering og giv den tekster.

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Da både den horisontale og vertikal linieføring er defineret og navngivet kan vi nu oprette en samlet vej.

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Given vejen et navn med forklaring og udpeg den hors. og vert. Linieføring.

Eksportér data til 3D vejlinie fil.

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PLINE 2'3 Chr 40 626 Elev 22.714 Offset 0.000 VAL Starwer 50307 created. Road Job deleted.			Coordinates Y
<u></u>		osoft Word - Vejl 🔁 T:\KUNDE-DATA\Bars	del - [Profile DA 🔇 哇 torsdag

Roadline 3D tar	get file			$\overline{\mathbf{X}}$
<u>F</u> ile: Boad job:	T:\KUNDE-DATA\Barslund\Ha	insFrost\Slet.rlr	۱ •	Browse
<u>S</u> egments:	0.000 - 892.818	<u>B</u> egin: End:	0.000	_
]	7	,	
		<u>B</u> ack	<u>N</u> ext	<u><u>C</u>ancel</u>

Browse filen (*.rln) ud i den rigtige mappe. Udpeg vejen ved navnet og kontrollér stationeringen. Tast Next indtil eksporten er udført.

Import af oprettet vejlinie *.rln i TGO til færdigbehandling - tværsnit.

Start TGO definér et projekt og start ROADLink. Det er ikke nødvendigt at definere et korrekt koordinatsystem, idet dette kan være ændret på byggepladsen.



Importér vejdefinition fra TerraModel *.rln

Import	? 🔀
Road Surface Background	
<u>T</u> ypes:	OK
Third party road definition file Road definition from Trimble Survey Controller Road definition from Trimble Survey Controller file Road definition from SDR33 file ASCII road definition file (*.tdf)	Cancel

File Open Wizard	
	Select data origin
	The road data is in the format exported by this package: Data format: Seodimeter (rln)
	< <u>B</u> ack <u>N</u> ext > Cancel

Vælg Geodimeter (rln)

Udpeg filen.

File Open Wizard		<
	Select files	
	Select the roading data files to open:	
	Combined alignment file:	
	T:\KUNDE-DATA\Barslund\HansFrost\Slet.rlr Browse	
	< <u>B</u> ack <u>F</u> inish Cancel	
		1

Warni	ng 🔀
	Difference of x=16.326, y=4.661, length=0.000, rotation=42°10'59" at station 138.358. Do you want to adjust the design to fit?
	Click Yes to adjust, Yes to All to adjust all or No to All to skip all.
	Yes No Cancel No to All Yes to All Help

Overvej advarslerne - her tast YES, da uoverensstemmelsen skyldes en linie med længden 0 m.





Læg evt. et baggrundskort bag vejen som visuel kontrol.

Trimble RoadLink - Stamvej150307 - [Profile view - Horizontal-2]							_ = Z
🔼 File Edit View Road Utilities Window Help							
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	Vertical						
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	Alignment Name: Alignment VPIs	Honzontal		Horizontal curve	markers		
	VEI 0	J			Insert	Edit VPIs	
	VPI details				Delete	Beport	
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	Lengt <u>h</u> :	2.000		1.000	Apply	<< Details	
	In length:	1.000		1.000			
	<u>Station</u>	-20.000	🕅 Elevati <u>o</u> n:	22.340			
	Slope in:	0%	Slope out:	1.500%			
							\sim
For Help, press F1						320.549 m, 20.230	Im 1048.300 m, 6.561 m 😒
🔧 start 🚽 : 🗉 😽 🙂 🏨 🗅 😹 省 🗂 😒 😋 🖏 🖬 🏦 🚜 🔏 🖸	👌 🕴 🚺 Trim	de Center Danm	Trimble Ge	eomatics Of	🕑 Indbakke - Micros	oft	09:38
	Nice	soft Word - Veil	Trimble De	ad ink - St		Bars	DA 🔇 💟 🚾 fredag
	2 (1 00 7 million	And there a vojim				basti	20-04-2007

Kontrollér den vertikale linieføring - længdeprofilet. Her skal radierne ganges med 10.



Calculate		? 🗙
Calculate (Coordinate	Calculate
Station:	500.000	Close
<u>O</u> ffset:	0.000	
C Calculate S	Station and Offset	
<u>N</u> orthing:	148925.012	
<u>E</u> asting:	-96761.597	
Elevation:	18.800	

Indtast nogle givne stationeringer og kontrollér, at koten beregnes korrekt.

Under Utilities findes profil editoren.

Trimble RoadLink - Stamvej150307 - [Template view - Horizontal-2]					- 2 🛛
🔁 File Edit View Road Utilities Window Help					
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	Library Template				
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		Method:	Crossfall and offset	Cancel	
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For Help, press F1				3.010 m, 0.087 m 6.600 n	n, 0.165 m 😒
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	1 Microsoft Word - Vejl	🔼 Trimble RoadLink - St 📔	T:\KUNDE-DATA\Bars	DA 🔇 💟 1	20-04-2007
					20 0. 2007

Der kan oprettes biblioteker og templates til brug i andre projekter.

🔼 Edit Template		? 🗙
Library Template		
Li <u>b</u> rary name: Stamvej	✓ Element Type: Design Line	• <u> </u>
⊕- 🛅 RundkørselPC96 ⊟- 🛅 SnitB ⊟- 🗖 Suborade	Method: Crossfall and offset	Cancel
Subgrade01	Apply Superelevation	
El Subgrade02 El Subgrade03	☐ Apply <u>W</u> idening	
Subgrade04	Cross <u>f</u> all: 0%	
	0.000	
	<u>C</u> ode:	Flip View
	Apply <u>N</u> ew <u>D</u> elete	C Left

Husk at taste Apply når subgraden skal gemmes og New når en ny skal oprettes..



Nu skal de enkelte templates/profiler hænges op på den rette stationering.

20-10-11 hlj 28 af 31 t:\3-SURVEY\Vejledninger\TGO\Vejledning til TerraModel.doc

Templates			? 🔀
Current <u>t</u> emplate	library: <mark>Stamvej</mark> nents		<u>K</u>
Start Station	Left Template	Right Template	<u>C</u> ancel
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892.819	SnitB	SnitB	
			Delete <u>A</u> ll
1			
Insert	<u>D</u> elete		



Under Road/Display linework kan linierne fra profilerne tegnes til visuel kontrol.

Under File/Export kan vejen eksporteres til en survey controller file til import i SiteVision eller GPS udstyr.

Export	? 🗙
Road Surface	ок
<u>T</u> ypes:	
Road definition to Survey Devices	Lancel
Road definition to Trimble Survey Controller file	
Road definition to Trimble 3600/5600 GDM file	Configure
Road definition to Trimble 3600/5600 TDS files	
Road definition to TDS Survey Pro CE files	
Road definition to SDR file	
Stakeout coordinates to Survey Devices	
Stakeout coordinates to Trimble Survey Controller file	
Stakeout coordinates to Trimble 3600/5600 GDM file	
Stakeout coordinates to Trimble 3600/5600 TDS file	
Stakeout coordinates to TDS Survey Pro CE file	
Stakeout coordinates to SDR file	
ASCII road definition file (*.tdf)	

Export to DC fi	le				? 🔀
Ge <u>m</u> i:	Export		•	+ 🗈 💣 🎟•	
Seneste dokumenter Skrivebord Dokumenter	Stamvej15030	7.DC 7_Horizontal.DC			
Naturikatadar	Citerana and	Charges 150207 D.C			Gam
NELVÆIKSSIEUEI	Filtype:	Survey Controller file (*.)	DC)		Annuller

Husk at gemme vejdefinitionen.!!!!



Start et projekt i SiteVision og importér den aktuelle vejdefinitionen.

Import	
Linework Surface Road Field	
	OK
Road definition from Survey Controller file (*.dc) Road definition from survey device.	Cancel
Road (DC) from Terramodel Project file (*.pro) ASCII road definition file (*.tdf)	<u>C</u> onfiguration
Geodimeter RLN road file Third party road definition file	



Vejen kan nu eksporteres til datakortet til den aktuelle maskine, inklusiv sitecalibration og evt. baggrundskort.

20-04-2007 HLJ