To get points from QGIS into Reachview for surveying... (go to end for importing points from Reachview to QGIS.

1. Export layer of polygon or lines to DWG or DXF. I'm usually bringing lines into the CAD program but points should work

Note – for my old version of intelliCAD, this layer for export must be in a meter type reference such as Easting/Northing format and exported as DXF.



Random side note - To copy features to another layer...

https://gis.stackexchange.com/ questions/90119/add-objectsfrom-one-layer-to-another-atqgis

2. Open in 2-D CAD program and make adjustments or additions or whatever.... Usually, make offsets or add other lines at 90 degrees to originals.

3. Save back out as DXF. Usually as lines. If you have points, those can be imported to QGIS too.



4. Import back in to QGIS.

)r nut trees - QGIS



🔇 Data Source Manager Vector	Importe		× Processing Toolbox	
	Import C		* 👌 🕞 🗣 🔧	
🦰 Browser	Source Type			_
Vector	File Directory Database Protocol: HTTP	P(S), cloud, etc.	Generative G	
Raster	Encoding	System	Q File tools	
🕌 Mesh	Source		G Graphics Q Internolation	
+ Delimited Text	Vector Dataset(s) C:\Users\Owner\Documents\GN55_work	GP5\2021\tree lines 18ft apart from IntelliCAD.dxf 🛛 🛄		
🐥 SpatiaLite			Raster tools	
ݙ PostgreSQL		Coordinate Reference System Selector		×
MSSQL		Specify CRS for layer tree lines 18ft apart from IntelliCAD		
📮 Oracle				
B2 DB2		Filter		
	adding as vector layer	Recently used coordinate reference systems		
📮 Virtual Layer	adding as vector rayer	Coordinate Reference System	Authority ID	-
		"Generated CKS (+proj=longlat +ellps=andrae +no_defs) NAD83 (BC Albers)	USER:100000 EDSG:3005	
👷 WMS/WMTS		NAD27	EPSG:4267	
4		WGS 84	EPSG:4326	
🛓 wcs		NAD83(CSRS) / UTM zone 10N	EPSG:3157	
WES		4	•	-
÷		Coordinate reference systems of the world	Hide deprecated CR	.Ss
💐 ArcGIS Map Server		Coordinate Reference System	Authority ID	-
		NAD83(2011) / UTM zone 7N	EPSG:6336	1
ArcGIS Feature Server	•	NAD83(2011) / UTM zone 8N	EPSG:6337	
		NAD83(2011) / UTM zone 9N	EPSG:6338	
		NAD83(CSRS) / UTM zone 10N	EPSG:3157	
		NAD83(CSRS) / UTM zone 10N	EPSG:6653	-
		NAD83(CSRS) / UTM zone 10N		-
		Extent -126.00, 48.13, -120.00, 81.80		No all

. +proj=utm +zone=10 +ellps=GR580 +towgs84=0,0,0,0,0,0,0,0 +units=m +no_defs

OK

Cancel

Help

5. Use Qchainage plug-in to create points along lines (creates a DXF layer with points)

redo base	
tree line v2 - corrected	
actual pins - corrected	🔇 QChainage 🛛 🕹 🗙
 Duck Pond - vertices out from QGIS 	
Duck Pond - outline	Basic Advanced Labeling
points_big_fieldv2	Select Lawer to chainage
points_big_fieldv2 entities	
— big_fieldv2 entities	far_field entities
chain_cemetery_road_legal	Chainage every 20.00000000
— cemetery_road entities	
points_far_fieldv2	Only first and last point 🗸 Force last point
far_fieldv2 entities	Output Lavername noints
two_fields entities	
two_fields entities	
✓ — <u>far field entities</u>	
big_field entities	
— export_1696_duck_out_of_QGIS_as_DXF entities	
Duck Pond	OK Cancel Help
1696	
Dabarrall	

fil d C . r inte t FSRIch

and Convert DAF of points to a ES	KI Shape Ine.	
actual pin Set Layer Scale Visibi	lity	
Ouck Pon Set CRS Ouck Pon	>	
Digits big Export	Save Features As	
points big Styles	Save Selected Features As	
big fieldy	Sources Lours Definition File	
✓ • chain cemetery rugu lega	Save as Layer Delinition File	
- cemetery road entities	Save as QGIS Layer Style File	
• points far fieldv2		
☆ Favorites		
🕨 🔯 Project Home		
G Home		-
▶ □ D\	😡 Save Vector Layer as 🗡 🗡	ς
• D P/		
💜 GeoPackage 🖉 Spatial ite	Format ESRI Shaperile	
PostGIS	File name points_big_fieldv2	
MSSQL	Layer name	
	CR5 EP5G:3157 - NAD83(CSR5) / UTM zone 10N 🔹 🌚	
Layers		
🖌 🕼 🔍 🕇 کړ 🛪 🖉 کې	Encoding System •	
Aug18_current_fire_polys	Save only selected features	
HFIRE_PLY_polygon	Select fields to export and their export options	
Robin Schilling Robin Schilling.kmz	▼ Geometry	
9x9 nut trees as of Jun 7th 2021	Geometry type	
 IH #1919 points 9ft lines for trees rotated about birch fom 	Force multi-type	
9ft lines for trees rotated about birch fom Intelli		
 points_18ft lines for trees rotated about birch for 19ft lines for trees rotated about birch for 		
 Points_36ft offset lines for trees rotated about birch join inten points_36ft offset lines for trees rotated about bi 	Extent (current: layer)	
• bases	▼ Layer Options	
 36ft offset lines for trees rotated about birch for Untitled 1 	RESIZE NO	
redo base	SHPT	
tree line v2 - corrected		
actual pins - correctea Duck Pond - vertices out from QGIS	Custom Options	
Duck Pond - outline		0 0 0 0 0
 ✓ ● points big fieldv2 entities — big fieldv2 entities 		
chain_cemetery_road_legal		
— cemetery_road entities		
 points_far_fieldv2 far_fieldv2 entities 	✓ Add saved file to map OK Cancel Help	
- forficer curres		

•

OR

Extract nodes and save to .shp file



6. Open attribute table – This is a new step. If you skip this you then need to rename the columns in the outputted CSV file. Probably quicker than doing the following.



			ορέποσ
NULL	AcDbEntity:Ac	20055	easting
NULL	AcDbEntity:Ac	20054	northing
NULL	AcDbEntity:Ac	20053	elevation
NULL	AcDbEntity:Ac	20052	
NULL	AcDbEntity:Ac	20051	

a) - name = 'Point ' + to_string(@row_number)

Only update 0 selected features	
✓ Create a new field	
Create virtual field	
Output field name name	_
Output field type Text (string)	_
Output field length 10 🗢 Precision 3 🗢	
Expression Function Editor	
= + - / * ^ () "	n'
'Point ' + to_string(@row_number)	

b) - easting 🔇 Field Calculator Only update 0 selected features ✓ Create a new field Create virtual field Output field name easting Output field type Decimal number (real) 🚽 Precision ÷ Output field length 10 3 Expression Function Editor P * ^ "\n' 1) + -= \$x P

c) – northing

📿 Field Calculator								
•	 Only update 0 selected features Create a new field 							
	Create virtual field							
1	Output field name northing							
1	Output field type Decimal number (real)	-						
	Output field length 10 🜩 Precision 3 🜩							
	Expression Function Editor							
	= + - / * ^ ()	"\n'						
Ρ	\$y							
Ρ								

d) – elevation

🔇 Field Calculator

	Only update 0 selected features								
	✓ Create a new field								
-	Create virtual field								
1	Output field name elevation								
	Output field type Decimal number (real)								
	Output field length 10 <								
	Expression Function Editor								
P	= + - / * ^ II () [¶] ← just a zero	"\n'							

e) Remove other columns (use CTRL to select multiple)

points_big_fieldv2 :: Features Total: 90, Filtered: 90, Selected: 0

n 🗱 🖶 Cointa ân 🛰 an tân 5a 🚍 N 🧠 🝸 🗮 🏶 💬 inta tăn tân 1a na 🔍									
23 PaperSpace 🔻	= 8							- Upr	da
PaperSpace	 SubClasses 	Linetype	EntityHand	Text	name	easting	northing	elevation	
	AcDbEntity:Ac		20000		Point 1	696615.286	5686210.497	0.000	
	AcDbEntity:Ac		20001		Point 2	696610.596	5686229.94	0.000	
	AcDbEntity:Ac		20002		Point 3	696605.905	5686249.382	0.000	
	AcDbEntity:Ac		20003		Point 4	696601.215	5686268.824	0.000	
	AcDbEntity:Ac		20004	O Dela	ete Fields	000000 PAP	F 40 40 4 4 4	X	٦
	AcDbEntity:Ac		20005	Par	nerSnace			~	
	AcDbEntity:Ac		20006	Sul	oClasses				
	AcDbEntity:Ac		20007	II Lin	type				
	AcDbEntity:Ac		20008	ET EN	ityHand				
,	AcDbEntity:Ac		20009	Tex	t				
	AcDbEntity:Ac		2000A	nai	me				
:	AcDbEntity:Ac		2000B	eas	iting				
:	AcDbEntity:Ac		2 000 C	ele	vation				
ŀ	AcDbEntity:Ac		2 000 D						
	AcDbEntity:Ac		2000E				01	Caral .	-
	A - DIE Funktion and -		20005						_

🍸 Show All Features _

7 Export to CSV file

Right click on .shp file and save as CSV file.

	[™] <i>µ</i> <u>Z</u> oom to Layer	
	$\prod_{j=1}^{m}$ $\sum_{j=1}^{m}$ oom to Selection	
Kol	Show in Overview	
• TH	#1 🗌 Show Feature Count	
 poi 	nt Copy Layer	om IntelliCAD
9ft	^{tii} Re <u>n</u> ame Layer	lliCAD entities
_ • poi	nt - Duplicate Laver	tom intelliCAD alliCAD antitian
01 01 02	nt 🗖 Bemove Laver	birch fom IntelliCAD
bas	es Mouste Ten	—
36/		om IntelliCAD entities
• Un	👔 🛄 Open Attribute Table	
• red	01 🥖 Toggle Editing	
_ • trea	<u> </u>	
• Du	change Data Source	
Du	k <u>S</u> et Layer Scale Visibility	
• poi	nt Set CRS	→
• poi _ — bia	nt fi Export	➤ Save Features As
• cha	in Styles	Save Selected Features As
cen	Properties	Save as Layer Definition File
✓ • poi		Save as QGIS Layer Style File
far	fieldv2 entities	

• two_fields entities
 • two_fields entities
 • far_field entities
 • far_field entities

🔇 Save Vector Layer	as			×
Format Comma	Separated Value [CSV]		*	
File name C:\User:	s\Owner\Documents\GN55_work G	PS\2021\points_big_fieldv2.csv	◙	
Layer name]
CRS EPSG:3	157 - NAD83(CSRS) / UTM zone 10	N	-	
Encoding		System	•	-
Save only selecte	d features	L		
Select fields to	export and their export opti	DNS		
Geometry		Automatic	-	
Geometry type		Cont Point		
Force multi-typ	e	√″ LineString		
Include z-dimer	nsion	🏳 Polygon		
		GeometryCollection		
Extent (cur	rent: layer)			
Layer Options				
CREATE_CSVT	NO		-	
GEOMETRY	<default></default>		•	
LINEFORMAT	<default></default>		-	
SEPARATOR	СОММА		•	
STRING_QUOTING	IF_AMBIGUOUS		-	
WRITE_BOM	NO		•	
Custom Antion	s			Ŧ
	Add saved file t	o map OK Cancel	Help	

CSV will look like this.... Now I email it to my phone.

📕 🦲 poi	nts_l	oig_fieldv	v2.csv	- N	lotep	ad			
<u>F</u> ile <u>E</u>	dit	F <u>o</u> rmat	<u>V</u> iev	N	<u>H</u> elp)			
name,	eas:	ting,n	orth	nir	ng,e	leva	atio	n	
Point	1,	696615	.286	5,5	686	210	.497	,0.0	900
Point	2,	696610	.590	5,5	686	229	.940	,0.0	900
Point	З,	696605	.905	5,5	686	249	.382	,0.0	900
Point	4,	696601	215	5,5	686	268	.824	,0.0	900
Point	5,	696596	.525	5,5	686	288	.266	,0.0	900
Point	6,	696591	.835	5,5	686	307	.709	,0.0	900
Point	7,	696587	. 144	1,5	686	327	. 15 1	,0.0	900
Point	8,	696582	.454	4,5	686	346	.593	,0.0	900
Point	9,1	696577	.764	4,5	686	366	. 035	,0.0	900
Point	10	,69657	3.07	73,	568	6385	5.47	8,0.	000
Point	11	,69656	8.38	33,	568	6404	4.92	0,0.	000
Point	12	, 69656	3.69	ЭЗ,	568	6424	4.36	2,0.	000
Point	13	,69655	9.00	ЭЗ,	568	6443	3.80	4,0.	000

Importing points from Reachview to QGIS.

1. Email project file of points from phone to PC (as CSV).

2. Add layer from CSV file.

Project <u>E</u> dit <u>V</u> iew	Layer Settings <u>P</u> lugins Vect <u>o</u> r <u>R</u> aster	<u>D</u> atabase <u>M</u>	<u>V</u> eb <u>M</u> esh HCMGIS Pro <u>c</u> essing <u>H</u> i	elp	
: 🗅 📂 🗐 🗗	幌 <u>D</u> ata Source Manager	Ctrl+L			
	Create Layer				
🖳 🏟 V 🖌 🥖	Add Layer		V [*] _a Add Vector Layer	Ctrl+Shift+V 🜸	abc abc @
Browser	Embed Layers and Groups		📰 Add Raster Layer	Ctrl+Shift+R	
	Add from Layer Definition File		🧱 Add Mesh Layer		
	🕥 Copy Style		🤰 Add Delimited Text Layer		
Favorites	Paste Style		🧠 Add PostGIS Layers	Ctrl+Shift+D	
A Home	Copy Laver		🔏 Add SpatiaLite Layer	Ctrl+Shift+L	
C(\	Paste Laver/Group		🔭 Add MSSQL Spatial Layer	Ctrl+Shift+M	
D:\		Г <i>С</i>	Add DB2 Spatial Layer	Ctrl+Shift+2	
E\		FO	Add Oracle Spatial Laver	Ctrl+Shift+O	
P F()	/ loggle Editing		Add/Edit Virtual Laver		
Layers	Save Layer Edits			Ctell Shift (10)	
🍯 🖪 🧟 🍸 🖏	// Current Edits		Add winis winis Layer	Ctr+3hit+W	
Aug2 current 1	<u>S</u> ave As		MapServer Layer		
Aug6_current_1	Save As Layer Definition File		CS Layer		
Aug7_prot_curr	🗔 Remove Layer/Group	Ctrl+D	Ma Add WFS Layer		
Aug10_prot_cur Aug15_current	🕞 Duplicate Layer(s)		Add ArcGIS FeatureServer Layer		
Aug17_current	Set Scale Visibility of Layer(s)				
Aug18_current	Set CRS of Laver(s)	Ctrl+Shift+C			
H_FIRE_PLY_pol	Set Project CRS from Laver				
ONIT_POLY Bobin Schil	l aver Properties				
• 9x9 mit trei	Filter	Chul - E			
TH #1919	Filter	Ctri+r			
points_9ft l	Cabeling		_		
9ft lines for	° Show in Overview				
points_18ft	😎 Show All in Overview				
18ft lines fo	😋 Hide All from Overview				
	opper anes por inces rotated about or en pr				

🔇 Data Source Manager | Delimited Text

📩 Browser	File name C:\Users\Owner\Documents\GN55_work GP5\2021\9x9 nut trees as of Sep 19th 2021.csv	◙
V Vector	Layer name 9x9 nut trees as of Sep 19th 2021 Encoding UTF-8	•
Raster	▼ File Format	^
Mesh	CSV (comma separated values)	
9_ Delimited Text	Regular expression delimiter	
SeoPackage	Custom delimiters	
SpatiaLite	Record and Fields Options Change Geometry Definition	
PostgreSQL	Point coordinates X field Easting	
MSSQL	Well known text (WKT) Y field Northing	Ā
🔍 Oracle	No geometry (attribute only table) DMS coordinates	
DB2 DB2	Geometry CRS EPSG:3157 - NAD83(CSRS) / UTM zone 10N	
Virtual Layer	▼ Layer Settings Check	
💮 wms/wmts	Use spatial index Use subset index Watch file	
🕀 wcs	Sample Data	
WFS WFS	Name Easting Northing Elevation Description Longitude Latitude Ellipsoidal height Easting RM 1 P1 696920.628 5685714.275 0.000 -120.17584084 51.28866139 -14.789	* •
💏 ArcGIS Map Server		Halp
ArcGIS Feature Server		

×

2. Turn on labels for points (if desired). I usually show description that was entered in Reachview.

