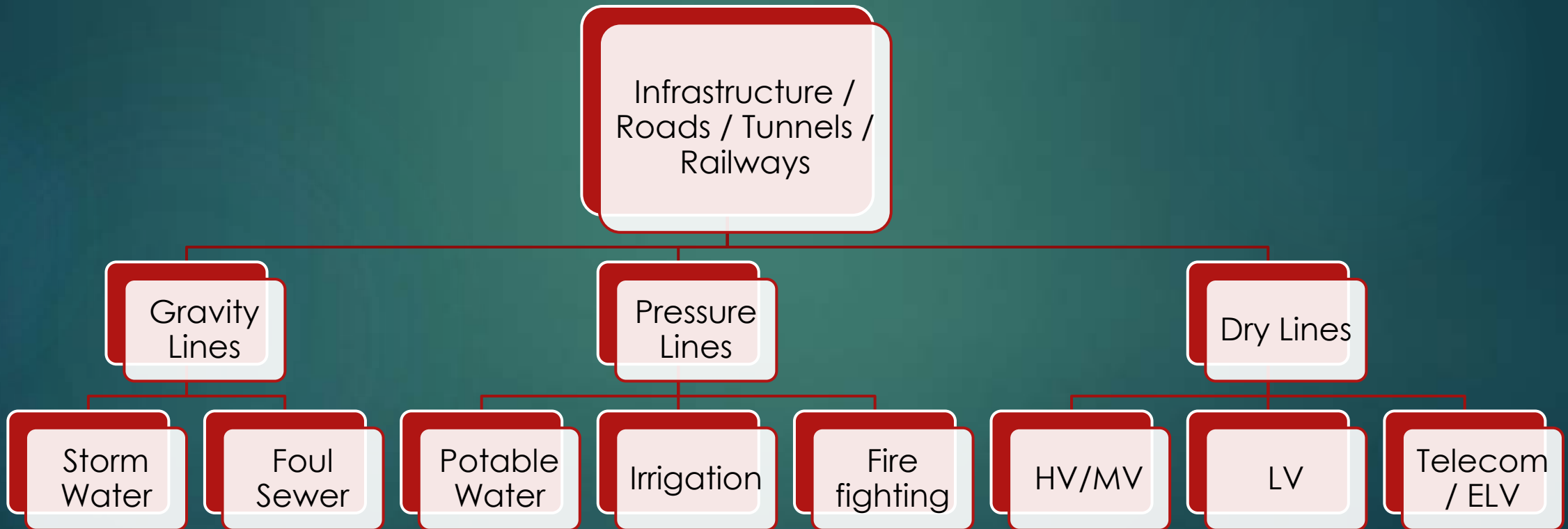


# Yunus Emre Kose

CIVIL / SOFTWARE ENGINEER

# Civil Engineer

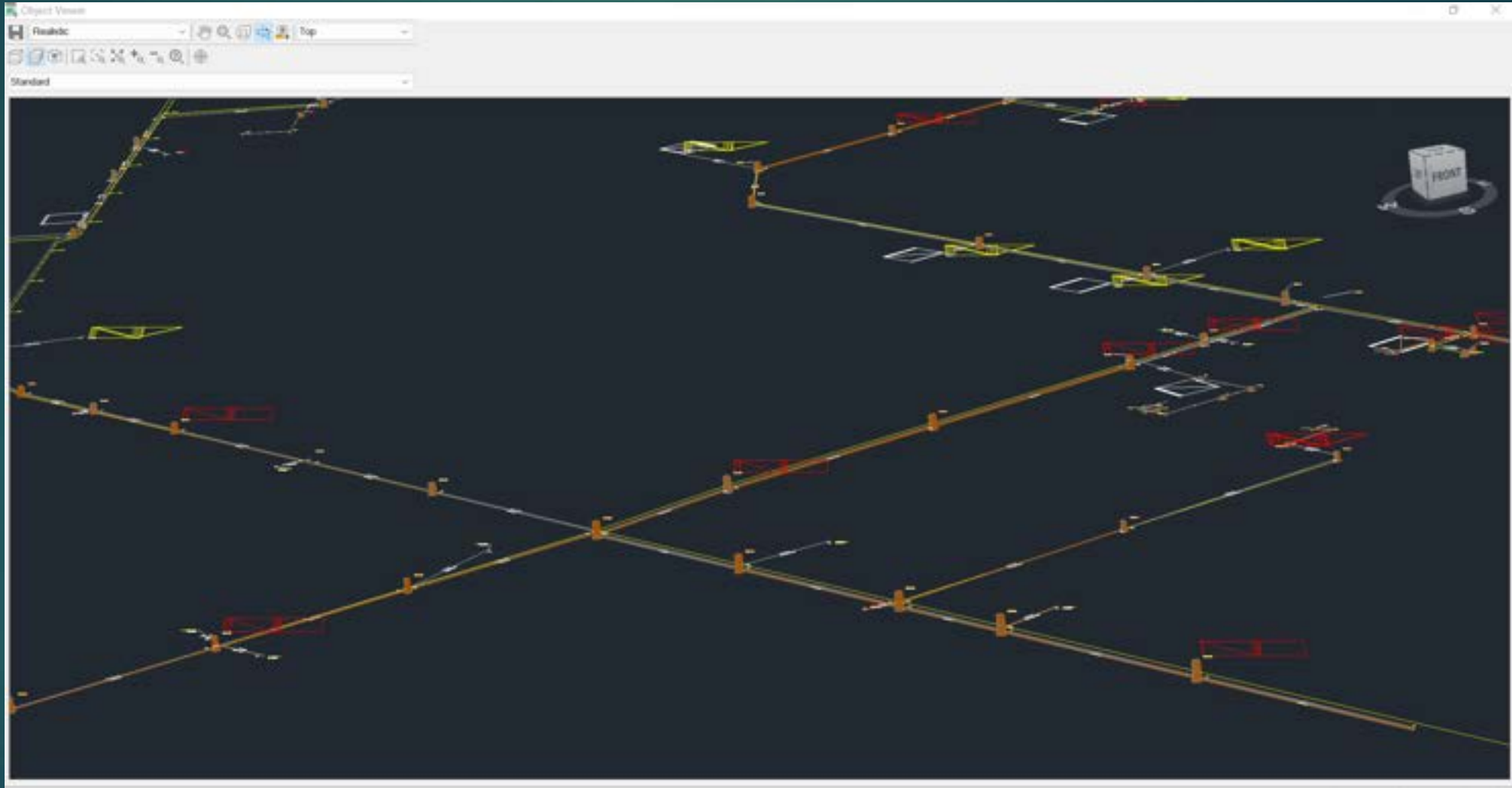
Modelling by using Civil 3D/Revit



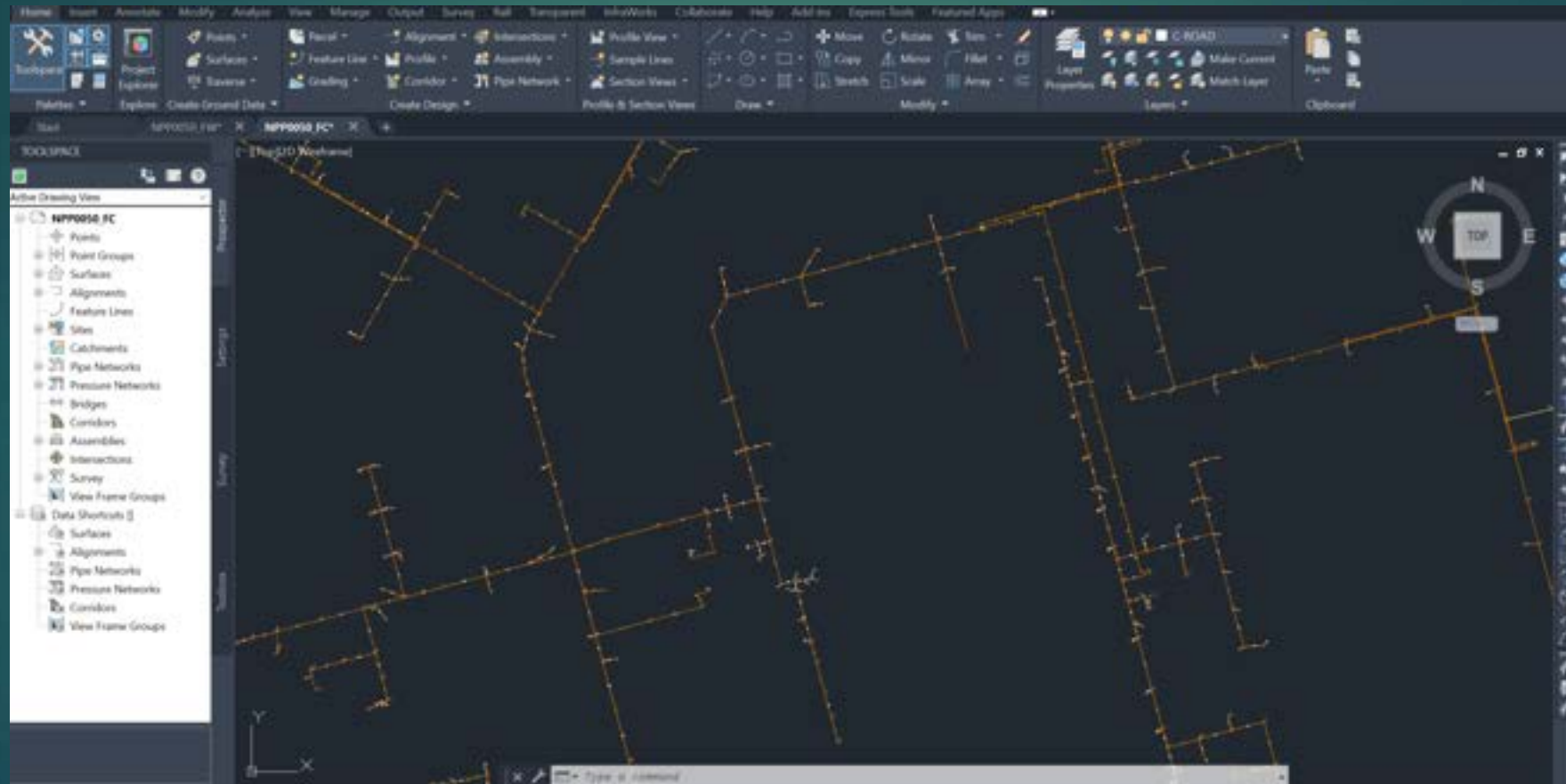
# Civil 3D/Revit modelling

- ▶ Modeling and Coordinating the Civil and MEP infrastructure
- ▶ Creation of LOD 400 families.
- ▶ Generating LOD 300, 400 and 500 models
- ▶ Creation of clash tests and rules as per the project requirements.
- ▶ Creation of the grading and excavation plans by using Civil 3D
- ▶ Generating shop drawings from IFC drawings
- ▶ Generating as built drawings from LOD 500 models
- ▶ Ensuring compliance with the BIM execution plan(BEP)
- ▶ Preparation of TIDP and MIDP.

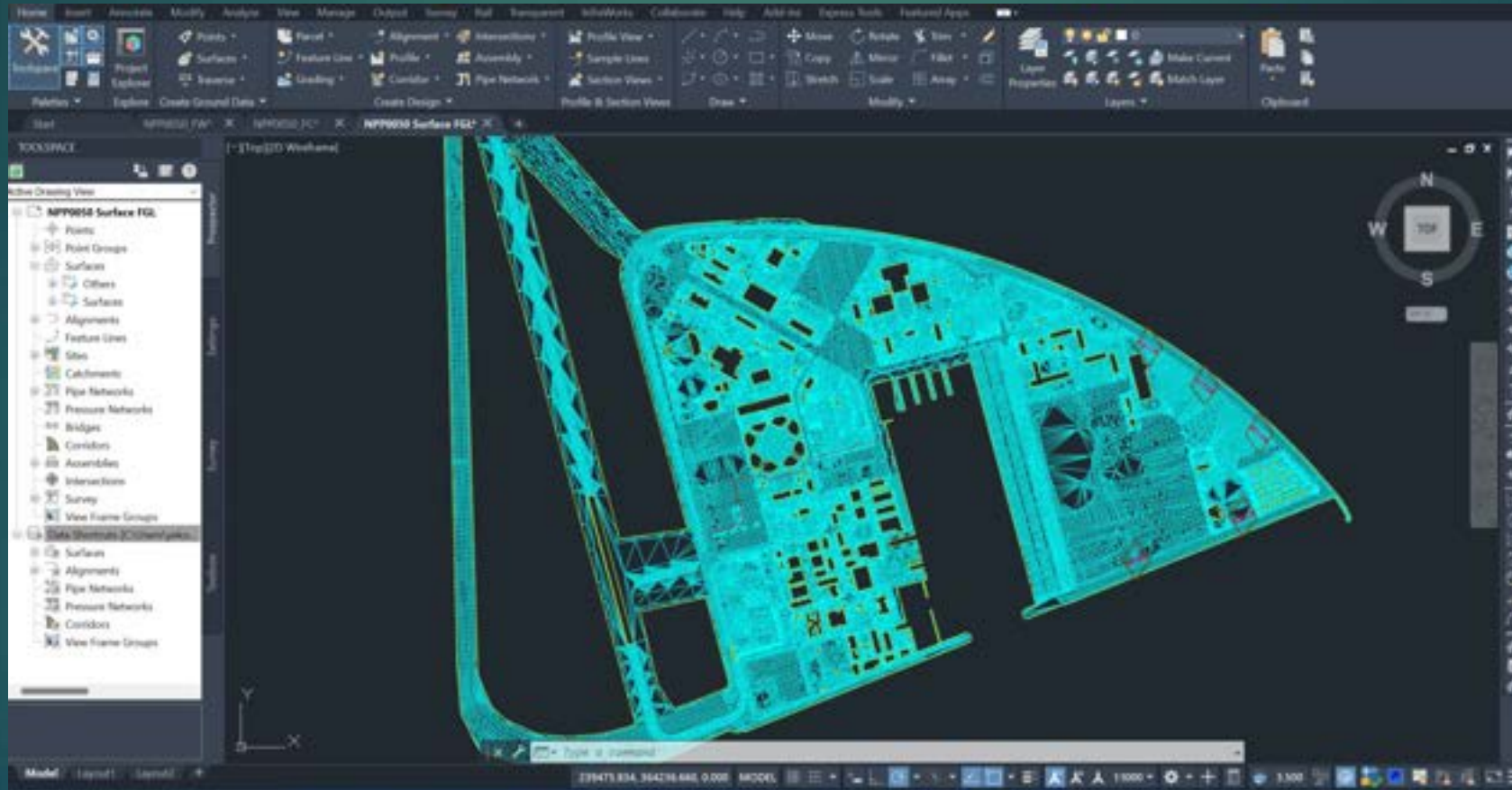
# Modelling samples



# Drainage networks



# Grading surface

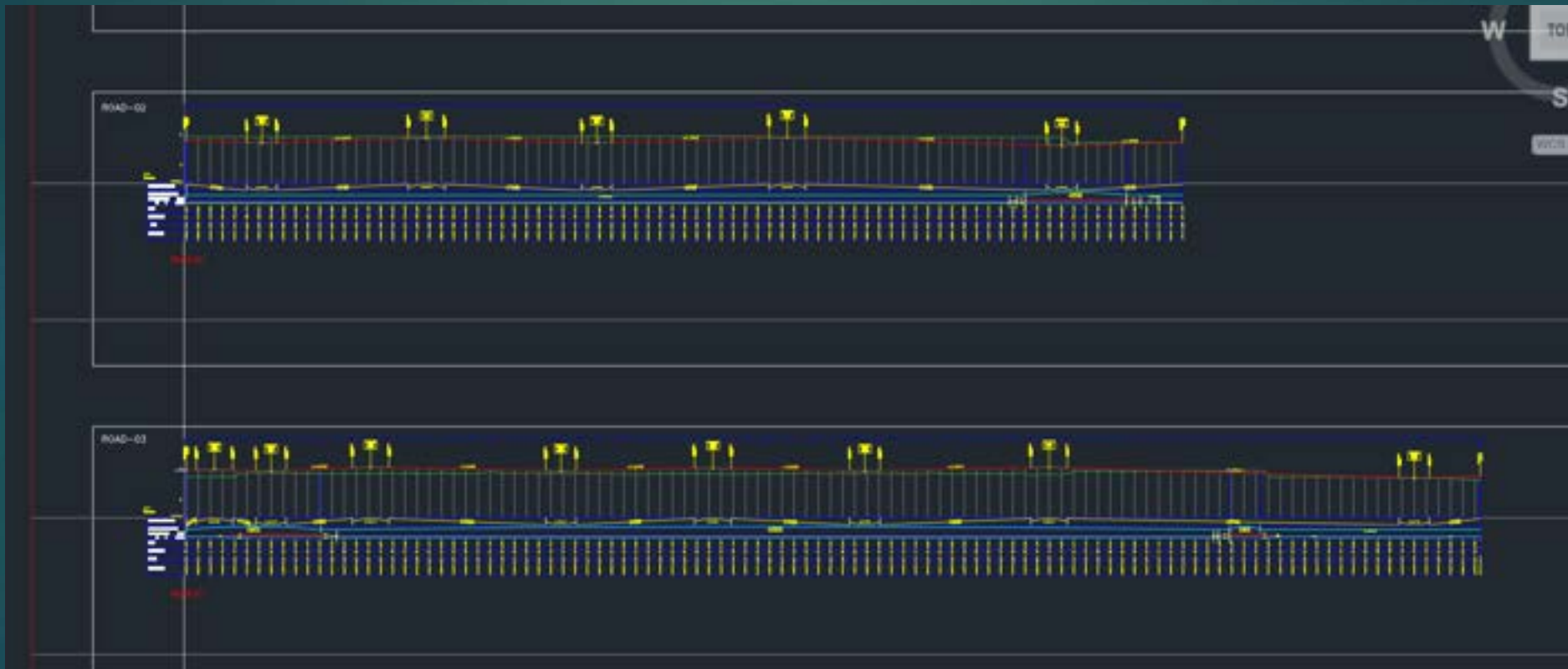


# MH Lists

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	LINE NAME	PIPE NAME	START MH NAME			PIPE				END MH NAME			PIPE LEVELS			Negative	Start	End		Start	End				Start	End
2			MH NAME	CL	SUMP	LENGTH	DIA	SLOPE	MATERIAL	MH NAME	CL	SUMP	START IL	END IL		Slope	Shop	Shop							Diff.	Diff.
3																										
0		Pipe - (865)	MH-170/01	5.502	0.50	60.00	300	0.40		MH-170/02	5.262	0.50	4.190	3.950		Ok	#N/A	#N/A							#N/A	#N/A
1		Pipe - (866)	MH-170/02	5.262	0.50	60.00	450	0.30		MH-170/03	5.143	0.50	3.860	3.680		Ok	#N/A	#N/A							#N/A	#N/A
2		Pipe - (867)	MH-170/03	5.143	0.50	60.01	450	0.30		MH-170/04	4.963	0.50	3.680	3.500		Ok	#N/A	#N/A							#N/A	#N/A
3		Pipe - (868)	MH-170/04	4.963	0.50	60.00	450	0.30		MH-170/05	4.783	0.50	3.500	3.320		Ok	#N/A	#N/A							#N/A	#N/A
4		Pipe - (869)	MH-170/05	4.783	0.50	60.00	450	0.30		MH-170/06	4.603	0.50	3.320	3.140		Ok	#N/A	#N/A							#N/A	#N/A
5		Pipe - (870)	MH-170/06	4.603	0.50	59.09	450	0.30		MH-170/07	4.222	0.50	1.850	1.670		Ok	#N/A	#N/A							#N/A	#N/A
6		Pipe - (871)	MH-170/07	4.222	0.50	44.64	450	0.31		MH-170/08	4.066	0.50	1.670	1.530		Ok	#N/A	#N/A							#N/A	#N/A
7		Pipe - (872)	MH-170/08	4.066	0.50	28.06	450	0.29		MH-170/9	3.972	0.50	1.530	1.450		Ok	#N/A	#N/A							#N/A	#N/A
10		Pipe - (853)	MH-049/09	4.296	0.50	13.08	500	0.31		MH-049/10	4.143	0.50	0.800	0.760		Ok	#N/A	#N/A							#N/A	#N/A
11		Pipe - (854)	MH-049/10	4.143	0.50	26.22	500	0.27		MH-049/11	4.224	0.50	0.760	0.690		Ok	#N/A	#N/A							#N/A	#N/A
12		Pipe - (855)	MH-049/11	4.224	0.50	34.89	500	0.26		MH-049/12	4.111	0.50	0.690	0.600		Ok	#N/A	#N/A							#N/A	#N/A
13		Pipe - (856)	MH-049/12	4.111	0.50	99.22	500	0.25		MH-049/13	3.822	0.50	0.600	0.350		Ok	#N/A	#N/A							#N/A	#N/A
18		Pipe - (839)	MH-050/15	4.072	0.50	43.73	750	0.16		MH-050/16	4.137	0.50	-1.370	-1.440		Ok	#N/A	#N/A							#N/A	#N/A
19		Pipe - (840)	MH-050/16	4.137	0.50	88.30	750	0.15		MH-050/17	4.016	0.50	-1.440	-1.570		Ok	#N/A	#N/A							#N/A	#N/A
20		Pipe - (841)	MH-050/17	4.016	0.50	71.62	750	0.15		MH-050/18	4.184	0.50	-1.570	-1.680		Ok	#N/A	#N/A							#N/A	#N/A
21		Pipe - (842)	MH-050/18	4.184	0.50	12.85	750	0.23		MH-50/19	4.146	0.50	-1.680	-1.710		Ok	#N/A	#N/A							#N/A	#N/A
22		Pipe - (822)	MH-050/21	3.995	0.50	55.16	750	0.16		MH-050/22	3.814	0.50	-1.760	-1.850		Ok	#N/A	#N/A							#N/A	#N/A
23		Pipe - (823)	MH-050/22	3.814	0.50	53.20	750	0.15		MH-50/23	3.704	0.50	-1.851	-1.930		Ok	#N/A	#N/A							#N/A	#N/A
25		Pipe - (787)	MH-050/24	3.973	0.50	54.32	750	0.17		MH-050/25	3.783	0.50	-1.960	-2.050		Ok	#N/A	#N/A							#N/A	#N/A
26		Pipe - (788)	MH-050/25	3.783	0.50	42.35	750	0.14		MH-050/26	3.619	0.50	-2.050	-2.110		Ok	#N/A	#N/A							#N/A	#N/A
27		Pipe - (789)	MH-050/26	3.619	0.50	13.82	750	0.22		MH-050/27	3.519	0.50	-2.110	-2.140		Ok	#N/A	#N/A							#N/A	#N/A
28		Pipe - (790)	MH-050/27	3.519	0.50	77.71	750	0.15		MH-050/28	3.334	0.50	-2.140	-2.260		Ok	#N/A	#N/A							#N/A	#N/A
29		Pipe - (791)	MH-050/28	3.334	0.50	32.99	750	0.15		MH-050/29	3.465	0.50	-2.260	-2.310		Ok	#N/A	#N/A							#N/A	#N/A
30		Pipe - (792)	MH-050/29	3.465	0.50	35.39	750	0.15		MH-050/30	3.329	0.50	-2.310	-2.363		Ok	#N/A	#N/A							#N/A	#N/A
31		Pipe - (793)	MH-050/30	3.329	0.50	12.29	750	0.01		GPT-50/34	3.235	0.50	-2.514	-2.515		Ok	#N/A	#N/A							#N/A	#N/A
32		Pipe - (794)	GPT-50/34	3.235	0.50	54.42	750	0.01		Outfall-13	-1.722	0.10	-2.515	-2.520		Ok	-2.520	n/a						-0.01	#VALUE!	
34		Pipe - (1162)				7.25	300	0.52		MH-048/02	3.837	0.50	3.226	3.188		Ok	#N/A	#N/A							#N/A	#N/A
35		Pipe - (864)	MH-048/02	3.837	0.50	93.97	300	0.40		MH-050/13	3.885	0.50	1.600	1.227		Ok	#N/A	#N/A							#N/A	#N/A
36		Pipe - (837)	MH-050/13	3.885	0.50	13.30	750	0.15		MH-050/14	3.905	0.50	-1.310	-1.330		Ok	#N/A	#N/A							#N/A	#N/A
37		Pipe - (838)	MH-050/14	3.905	0.50	22.51	750	0.18		MH-050/15	4.072	0.50	-1.330	-1.370		Ok	#N/A	#N/A							#N/A	#N/A
40		Pipe - (830)	MH-050/06	3.886	0.50	73.06	750	0.16		MH-050/07	3.768	0.50	-0.570	-0.690		Ok	#N/A	#N/A							#N/A	#N/A
41		Pipe - (829)	MH-050/05	3.981	0.50	22.66	500	0.26		MH-050/06	3.886	0.50	-0.510	-0.570		Ok	#N/A	#N/A							#N/A	#N/A
42		Pipe - (831)	MH-050/07	3.768	0.50	73.19	750	0.15		MH-050/08	4.199	0.50	-0.690	-0.800		Ok	#N/A	#N/A							#N/A	#N/A
43		Pipe - (832)	MH-050/08	4.199	0.50	58.30	750	0.15		MH-050/09	4.678	0.50	-0.800	-0.890		Ok	#N/A	#N/A							#N/A	#N/A
44		Pipe - (833)	MH-050/09	4.678	0.50	81.88	750	0.15		MH-050/10	4.046	0.50	-0.890	-1.010		Ok	#N/A	#N/A							#N/A	#N/A
	◀ ▶ ...	Outfall-03	Outfall-04	Outfall-05	Outfall-06	Outfall-07	Outfall-08	Outfall-09	Outfall-10	Outfall-11	Outfall-12	Outfall-13	Outl ...	⊕	⋮	◀ ▶										

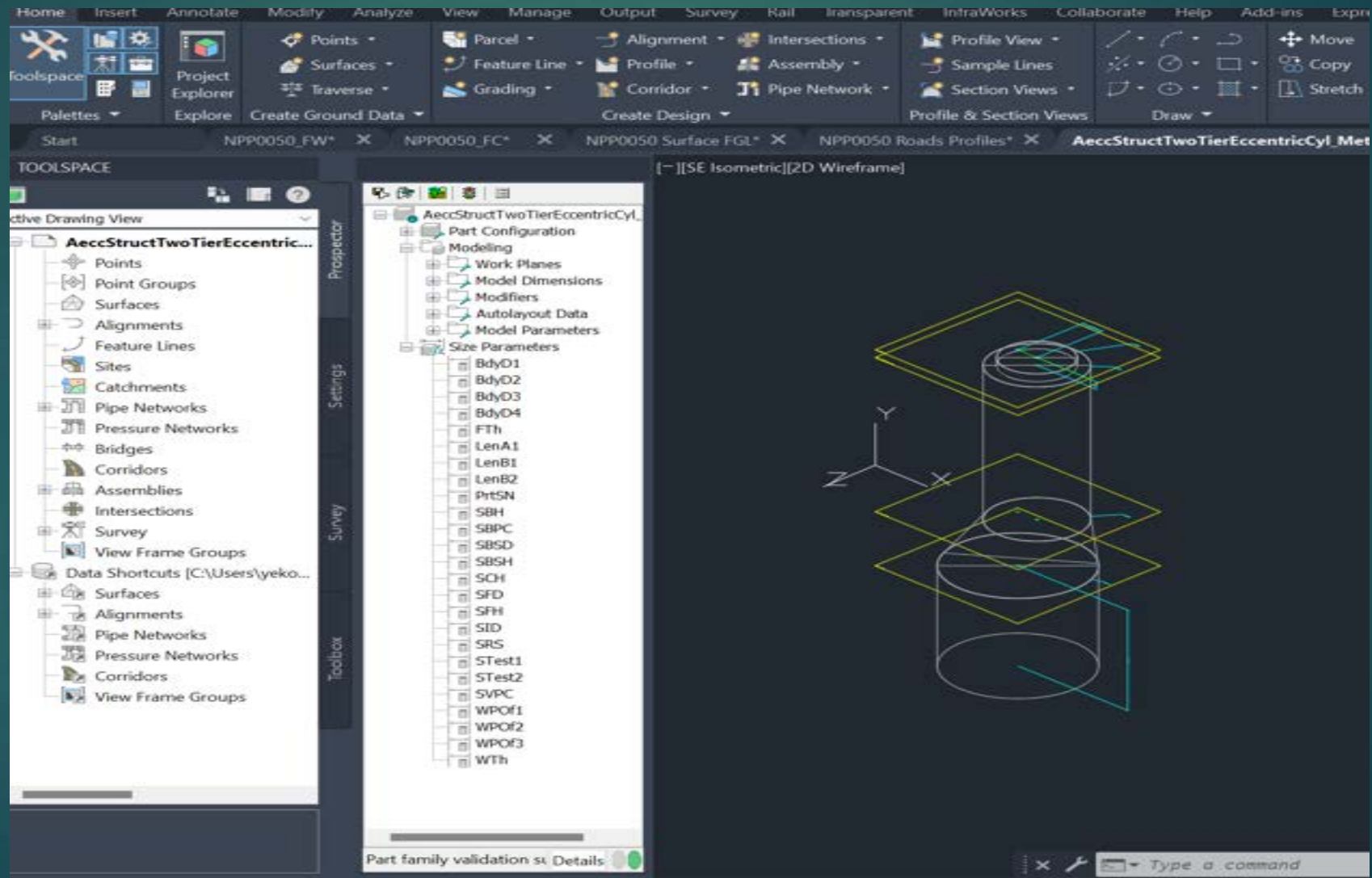


# Road Profiles

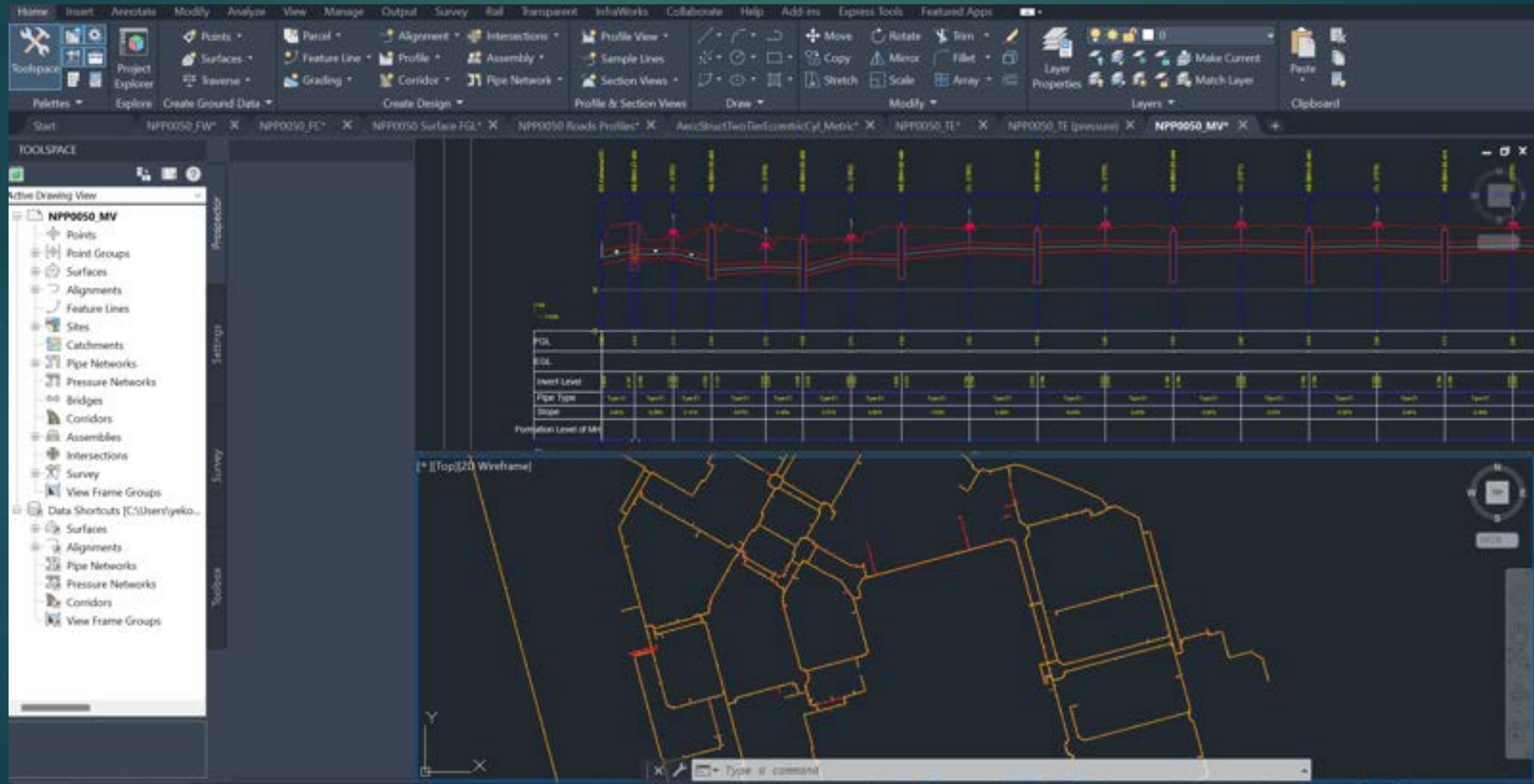




# Civil 3D Parts Editor



# MV network and profile





3D animations and rendering  
(Modelled in revit rendered in Lumion)



# Youtube videos require internet connection

<https://www.youtube.com/watch?v=YNP4PM0okEM>





# Entrance



# Commander Room





# Auditorium



# VIP ROOM





# VIP ROOM

# Software Engineer

- ▶ Specialized in Revit and Civil 3D programming with a strong knowledge of C++, C#, Dynamo graphs and Python scripting using both Civil 3D API and Revit API.
- ▶ Automating the everyday modelling tasks to be accomplished easily.
- ▶ Raising the efficiency of the modelling workflow to the highest level.
- ▶ Providing lasting solutions for the common modelling problems.
- ▶ Dealing with complex modelling tasks that require exhausting work.
- ▶ Preparation of 4D and 5D analysis for the Project.

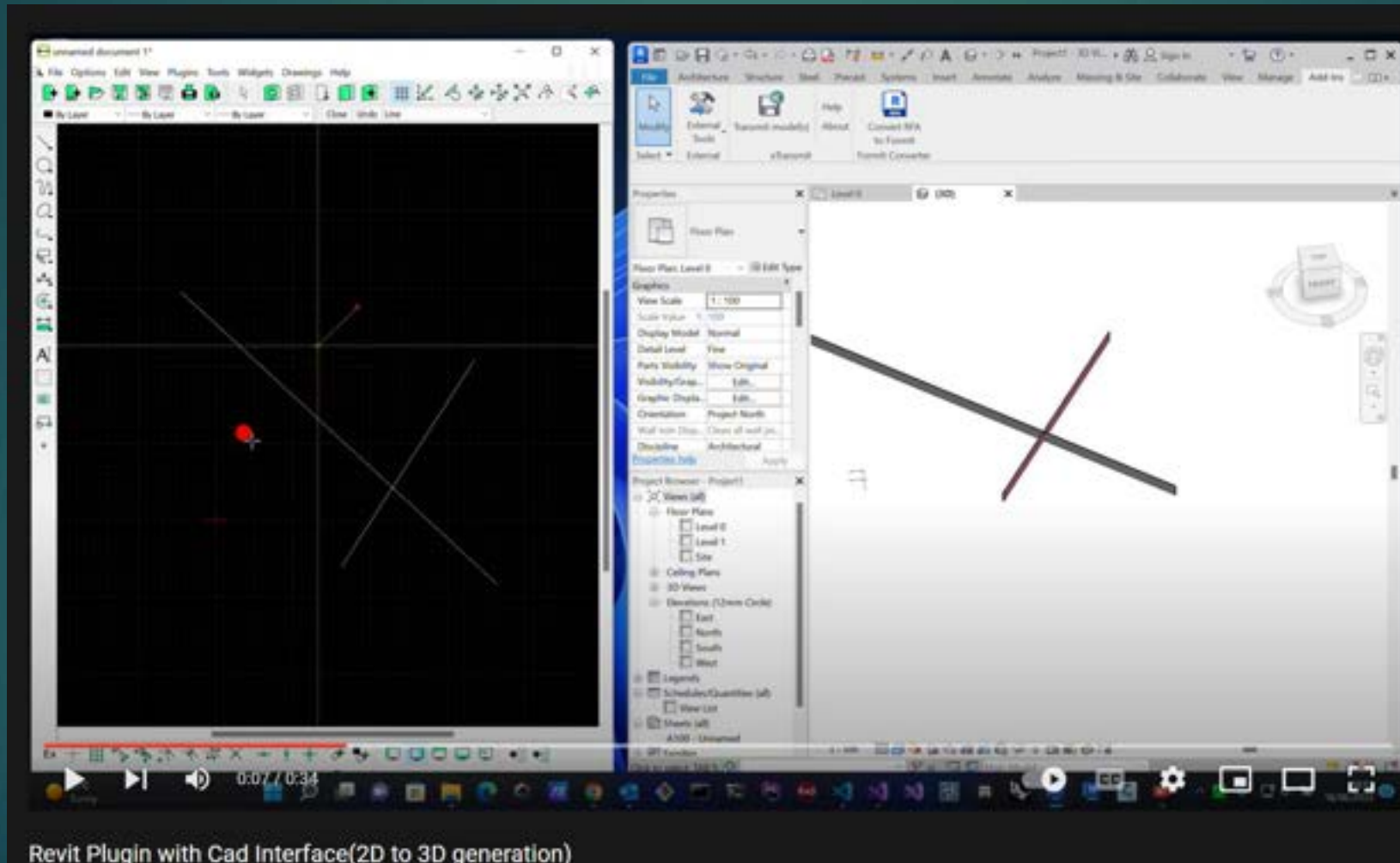
# Addin for exporting network data

The screenshot displays the NPP0050\_FC software interface. On the left, a 'TOOLSPACE' panel lists various network elements like Points, Surfaces, Alignments, and Pipe Networks. The main workspace shows a 2D network diagram with yellow lines representing pipes and blue lines representing structures. An 'Excel Settings' dialog box is open, showing a list of network elements and their corresponding data values. The dialog has tabs for 'Excel Settings', 'Export', and 'Import'. The 'Export' tab is active, displaying a table of data. A 'Network Check' button is visible at the bottom of the dialog. A status bar at the bottom indicates the current model and layout.

ID	Name	PipeStartX	PipeStartY	PipeStartZ	PipeEndX
67531173	FC-Pipe-01	243525.214076365	364058.44412814	2.946	243548.06262052
67531173	FC-Pipe-02	243528.256529425	364740.115504825	2.027	243507.58802641
67531176	FC-Pipe-04	243507.31197317	364217.893077514	1.47373151696475	243486.794627112
67531179	FC-Pipe-05	243486.307968772	364295.147077512	3.503400187861305	243465.96968155
68018057	Pipe - (B31)	243549.062620521	364062.866524061	2.58	243528.256529425
68018073	Pipe - (B32)	243485.846654626	364371.834906081	0.367	243445.04250780
68018113	Pipe - (B33)	243445.042507806	364449.104955475	-0.186	243474.05646005
68018140	Pipe - (B34)	243474.056460058	364527.028479111	-0.74	243400.11714401
68018161	Pipe - (B35)	243135.174450447	364795.89652634	2.725	243098.60846441
68018212	Pipe - (B37)	243098.608464413	364809.812927211	2.257	243176.38707658
68018241	Pipe - (B38)	243176.38707658	364830.474	1.798	243253.104
68018263	Pipe - (B39)	243253.104	364951.417408455	1.241	243331.035
68018265	Pipe - (B40)	243331.035	364872.277	0.69	243351.15478814
68018285	Pipe - (B41)	243351.154788141	364797.22042081	0.156	243378.86911156
68018288	Pipe - (B42)	243378.86911156	364721.987733062	-0.338	243385.34024908
68018308	Pipe - (B43)	243385.340249085	364670.766664747	-2.08	243399.89609814
68018347	Pipe - (B46)	243315.151409048	365034.026056492	1.383	243289.272
68018361	Pipe - (B45)	243289.272	365028.964918622	2.15	243310.07626801
68018406	Pipe - (B46)	243310.076268015	364969.717721588	1.587	243330.91197661
68018889	Pipe - (B47)	243330.91197661	364719.374	1.687	243370.33580217
68018904	Pipe - (B48)	243400.918275177	364816.140187976	-1.15	243414.15110087
68018919	Pipe - (B49)	243414.15110087	364830.140968617	-1.41	243438.16911931

Unreconciled New Layers  
New layers were found that may need to be reconciled.  
[View unreconciled new layers in Layer Properties Manager](#)

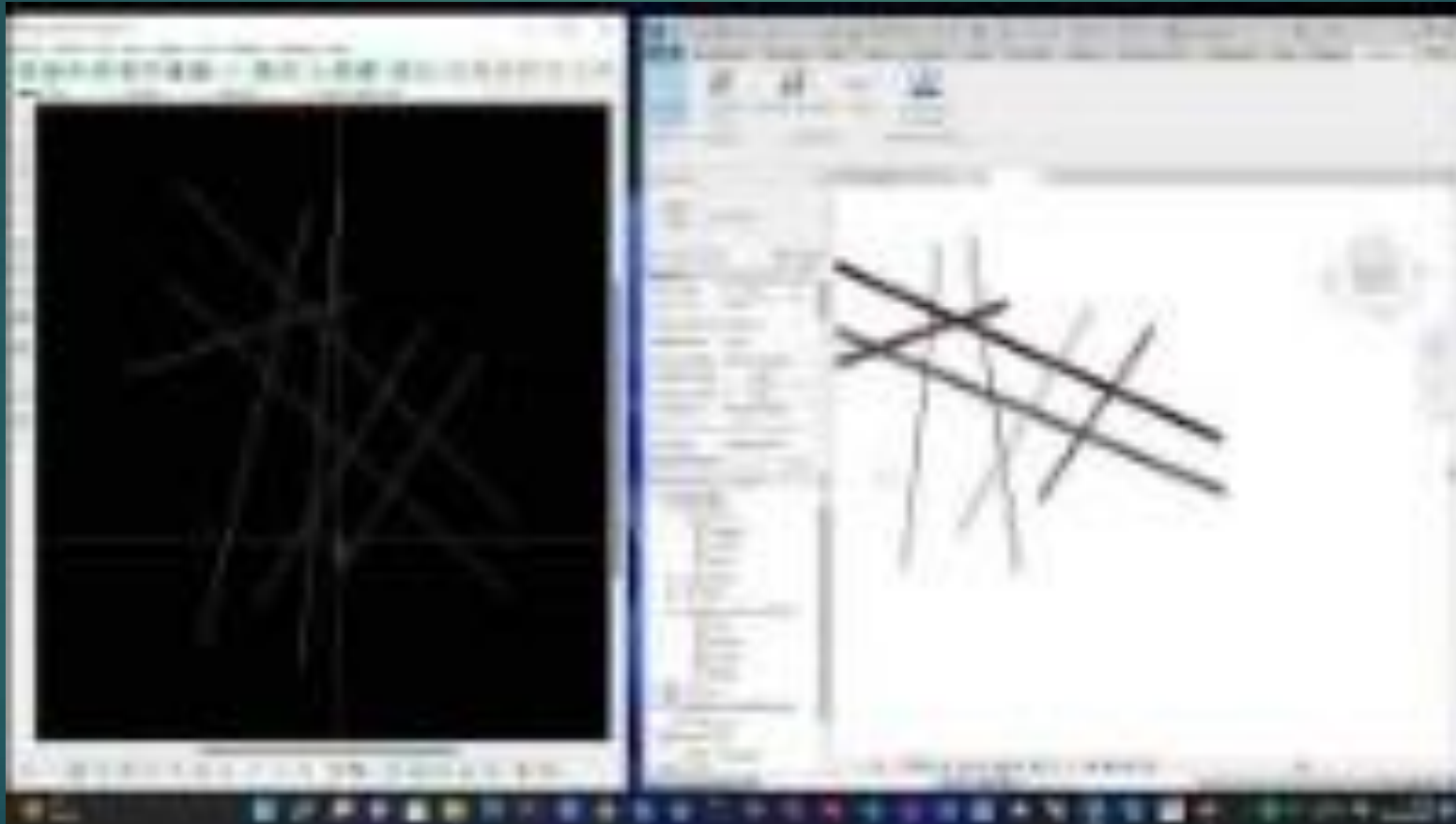
# 2D to 3D generation for Revit (in progress)



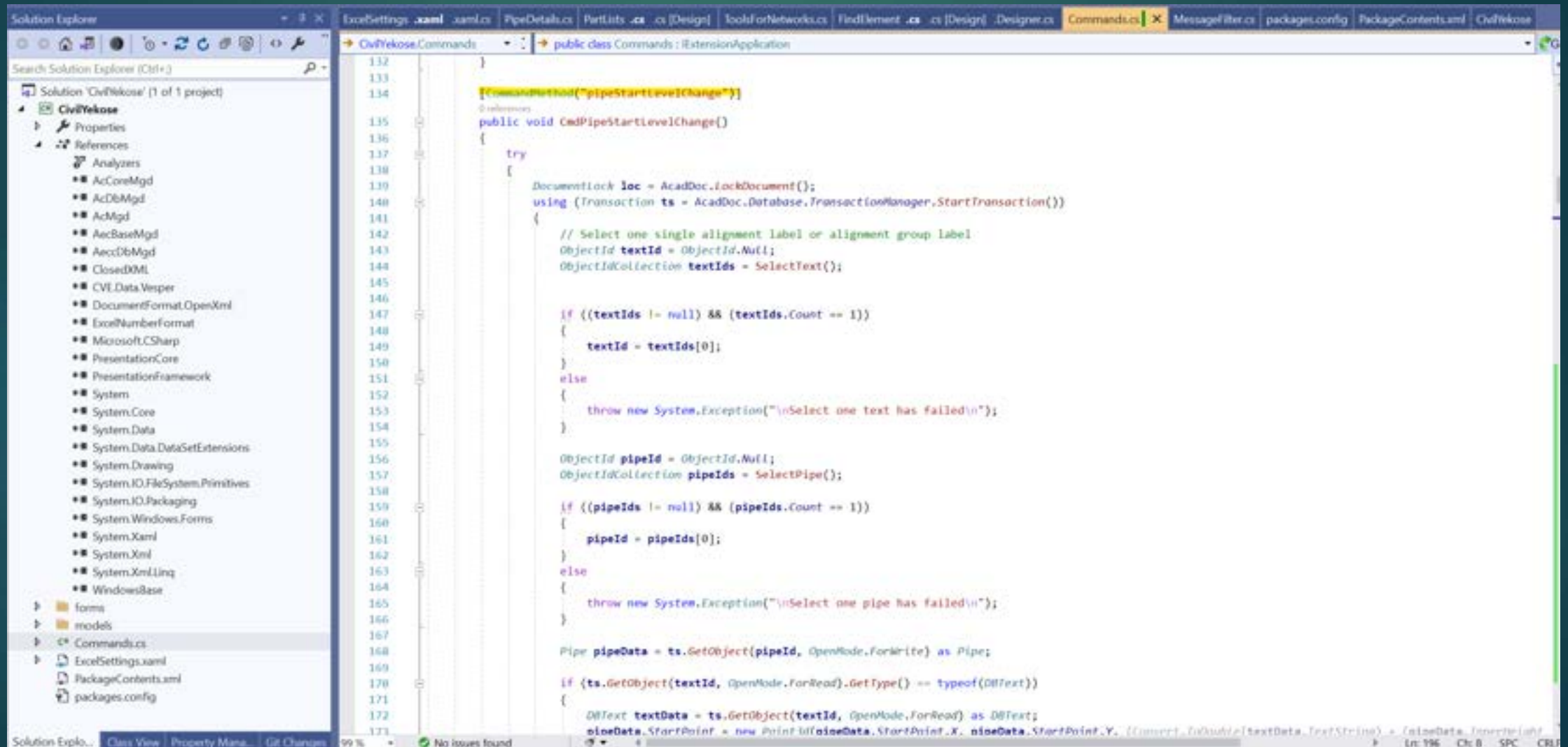


# Youtube videos require internet connection

<https://www.youtube.com/watch?v=G18g1lhugg>



# Pipe level changer and many others



The screenshot displays the Visual Studio IDE with a solution named 'CiviVekose'. The left pane shows the Solution Explorer with the project structure, including references to various .NET assemblies like AcCoreMgd, AcDbMgd, and System. The main editor shows the 'Commands.cs' file, which contains the implementation of the 'CmdPipeStartLevelChange' command. The code is written in C# and includes comments in Chinese. It uses the Revit API to interact with the document, selecting a text object and a pipe object, and then modifying the pipe's level. The status bar at the bottom indicates 'No issues found'.

```
132 }
133
134 [CommandMethod("pipeStartLevelChange")]
135 public void CmdPipeStartLevelChange()
136 {
137     try
138     {
139         DocumentLock doc = AcadDoc.LockDocument();
140         using (Transaction ts = AcadDoc.Database.TransactionManager.StartTransaction())
141         {
142             // Select one single alignment label or alignment group label
143             ObjectId textId = ObjectId.Null;
144             ObjectIdCollection textIds = SelectText();
145
146             if ((textIds != null) && (textIds.Count == 1))
147             {
148                 textId = textIds[0];
149             }
150             else
151             {
152                 throw new System.Exception("\nSelect one text has failed\n");
153             }
154
155             ObjectId pipeId = ObjectId.Null;
156             ObjectIdCollection pipeIds = SelectPipe();
157
158             if ((pipeIds != null) && (pipeIds.Count == 1))
159             {
160                 pipeId = pipeIds[0];
161             }
162             else
163             {
164                 throw new System.Exception("\nSelect one pipe has failed\n");
165             }
166
167             Pipe pipeData = ts.GetObject(pipeId, OpenMode.ForWrite) as Pipe;
168
169             if (ts.GetObject(textId, OpenMode.ForRead).GetType() == typeof(DBText))
170             {
171                 DBText textData = ts.GetObject(textId, OpenMode.ForRead) as DBText;
172                 pipeData.StartPoint = new Point3d(pipeData.StartPoint.X, pipeData.StartPoint.Y, (Convert.ToDouble(textData.TextString) * (1000.0 / 304.8)).ToDouble());
173             }
174         }
175     }
176     catch { }
177 }
```



Thank you