



Devotech Group of Companies

DEVOTECH iDAS v12.4 Update 1

Document version: 01

DEVOTED TO ENGINEERING EXCELLENCE

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SUPPORTED CIVIL 3D VERSIONS

Civil 3D 2019-2024

OLD DRAWINGS COMPATIBILITY

Any old drawings are fully compatible with the new iDAS version however some adjustments might be needed, see further chapters.

Drawings with channels

If the old drawing (version 12.3 and before) contains V-shape or trapezoidal channels then double check the side slopes:

Pipes	annel	Channel Description	Channel Size Name	Channel Inner Width (mm)	Channel Shape	Manning's Roughness Coefficient	Number of Channels	Trapezoidal Left Side Slope or Triangular Slope (wch or 1:x)	Trapezoidal Right Side Slope or leave Zero to Match Left Slope (wch or 1:x)	Average Loss	Initial Flow (m ³ /s)
Direct	C1	Rectangular	Rectangular Channel W 900 x H 750	900.000	Rectangular	0.0300	1	0	0	0	0
Links	C3	V Shape Cha	V Shape Channel LEFT SLOPE 1 in 1.000 RIGHT SLOPE 1 in 1.000 H 750	1500.000	Triangular	0.0300	1	0.5	0	0	0
Unmatched	C5	V Shape Cha	V Shape Channel LEFT SLOPE 1 in 1.000 RIGHT SLOPE 1 in 1.000 H 700	1400.000	Triangular	0.0300	1	2	0	0	0

Drawings with valves

If the old drawing (version 12.3 and before) contains valves with the Fixed Status being set to Open, then this property **must** be changed to "None". Fixed Status property was improved and offers all the options the EPANET engine supports:

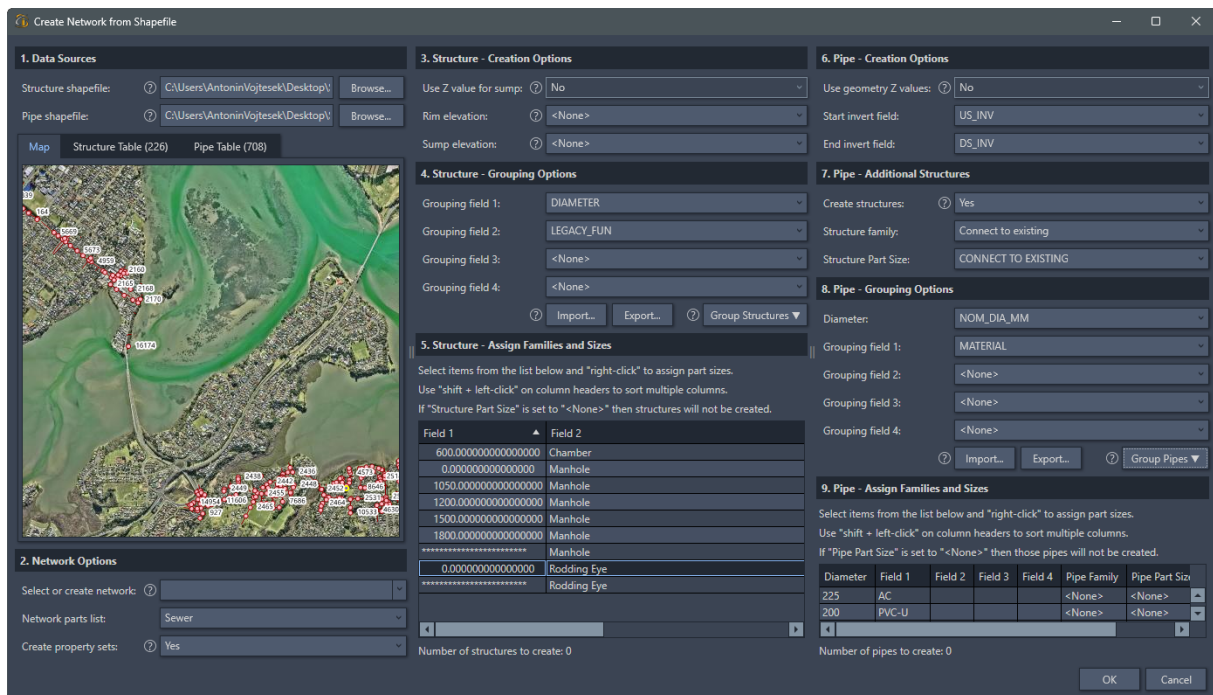
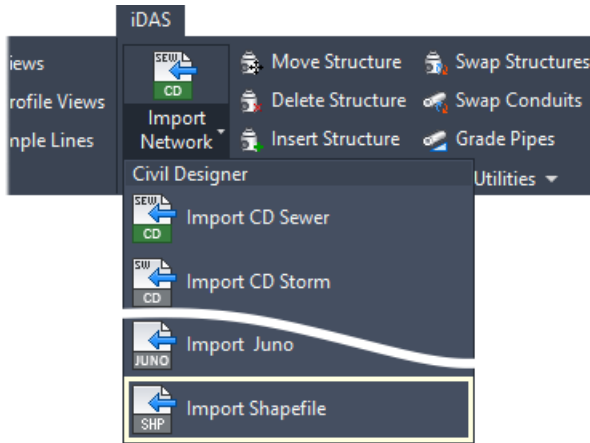
- "None" - a valve operates as a valve
- "Open" - a valve operates as an open conduit
- "Closed" - a valve operates as a closed conduit

Plan	Water Sources	Pressure Reducing	Valve Name	Outgoing Pipe	Pipe Diameter (mm)	Valve Diameter (mm)	Fixed Status	Surface Elevation (m)	Invert Elevation (m)
Profiles	Tanks	Pressure Sustaining	1	PRV	P12 ou	140.450	Closed	1.468.479	1.467.361
House Conn	Pumps	Pressure Breaker					<None>		
Catchments	Valves	Flow Control					Open		
Structures	Junctions	Throttle Control					Closed		
Conduits	Fire Hydrants	General Purpose							
Alignments	SHC	Air Valves							

NEW FEATURES

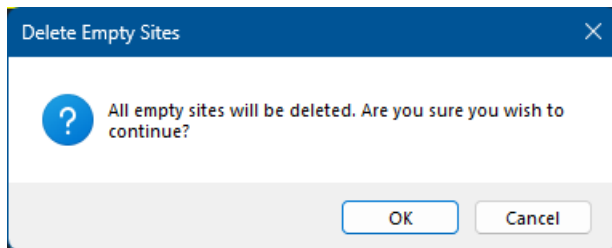
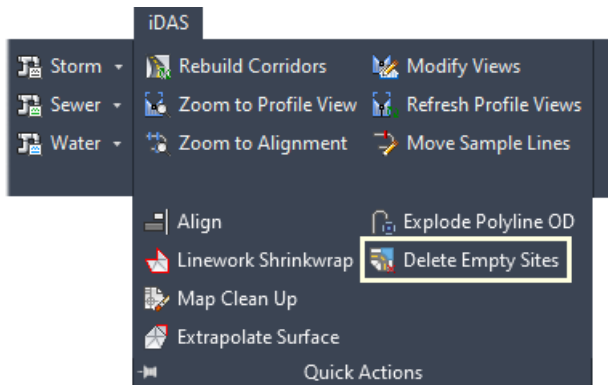
New Command: Create Network from Shapefiles

This command allows you to easily create a network from line and/or point shapefiles. It lets you filter and map fields from the shapefile to pipe and structure parts, as well as assign elevations from fields.



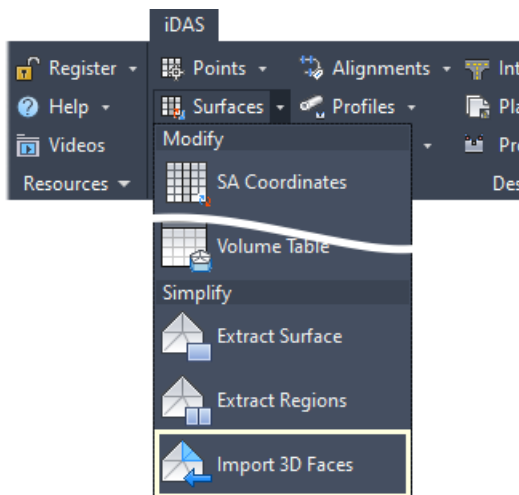
New Command: Delete Empty Sites

This command automatically delete all sites in a drawing that contain no entities (alignments, parcels, parcel segments or feature lines).



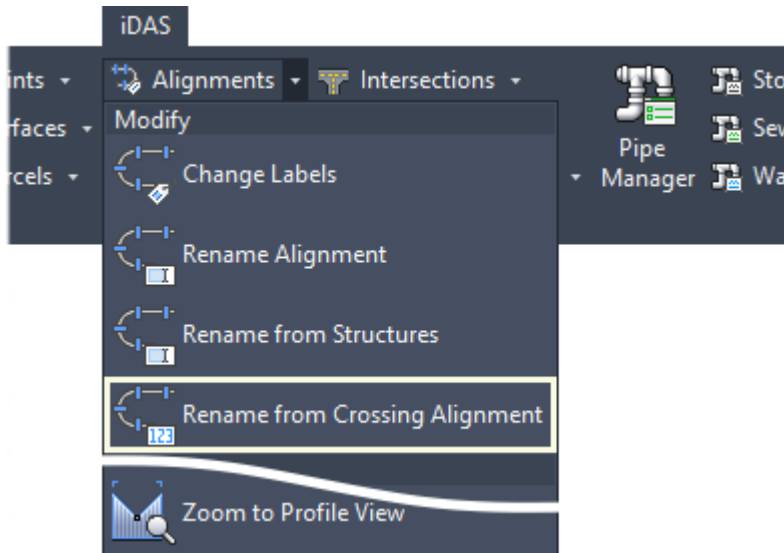
New Command: Import 3D Faces

This command imports 3D faces from another drawing that fall within a polyline. This is useful when a drawing contains too many 3D faces which degrades performance and only a small region of the drawing is needed for a design.



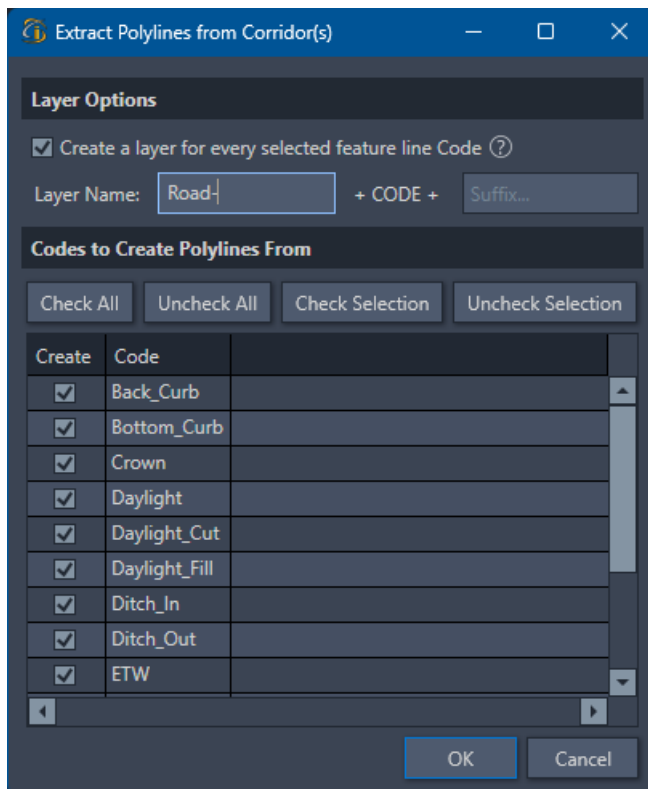
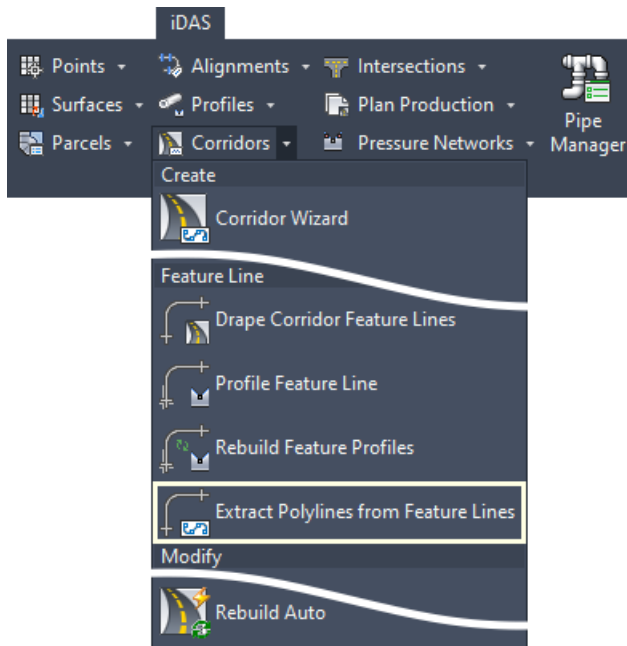
New Command: Rename from Crossing Alignment

This command's functionality is the same as the Pipe Crossing Station command. The option to rename alignments was added to the Pipe Crossing Station command in order to easily rename both a pipe and its associated alignment together.



New Command: Extract Polylines from Feature Lines

This command extracts corridor feature lines as 3D polylines. It optionally will place the 3D polylines on custom layers based on the feature line code.



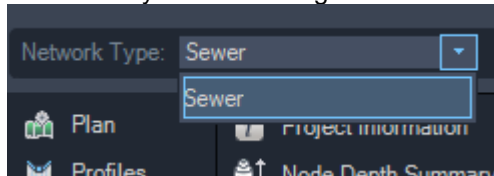
IMPROVEMENTS AND BUG FIXES

Pipe Manager improvements

User interface

Network type selector shows only the available network types in the drawing

An improvement has been made to the network selector, it will now only display the network types that are currently in the drawing.



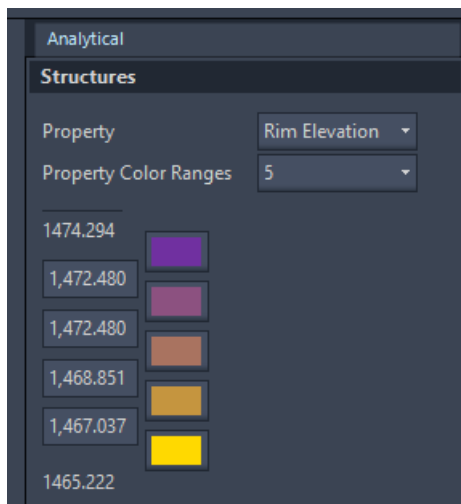
Switching networks parcel errors

Switching between networks while a site containing parcels was set as the active site caused an error dialog to be displayed for every parcel. This issue has been fixed and the dialog will no longer display.

Map analytical model legend display problem

On PCs that have restricted user rights to the ProgramData folder the analytical model legend would not display any colors. The need for user rights has been removed and the legend will now display correctly on all PCs.

User interaction with the legend's values has been changed for performance reasons. The map will now only update after the user either hits enter after changing a value or the number input field loses focus (the user clicks elsewhere).

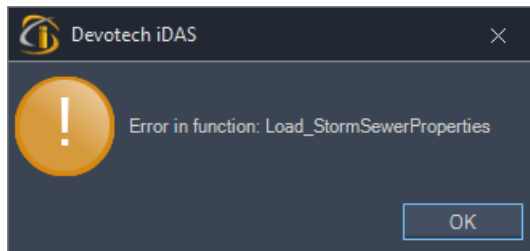


Excavation values not displaying correctly

The final depth category in the excavation grids was displaying a value of zero. This has now been fixed to display the actual value. The final depth category column has been renamed to be consistent with other column names.

Drop depth error dialog

A dialog (in the image below) was displayed when a negative drop depth was provided in the profile editor. This error has been fixed and the drop depth input changed to prevent negative values being provided.



Column filters and sorting

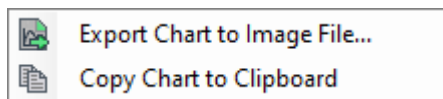
Filter and sort functionality added to all columns in the Pipe Manager and incorrect filter icons have been fixed.

Incorrect network mapping

If parts lists' names contained the same sequence of characters then, on occasion, the network would be mapped incorrectly. This has now been resolved and mapping works correctly.

Graph export options

A right-click context menu has been added to the profile and results graphs. The context menu has two options for exporting graphs. Graphs can now be exported to a PNG file or copied to the clipboard.



Export results to excel incorrect data

An issue has been resolved where the exported analysis results spreadsheet contained a sheet called "Node Flooding Summary" which contained the outfall loading data instead of the node flooding data. All sheets now contain the correct information.

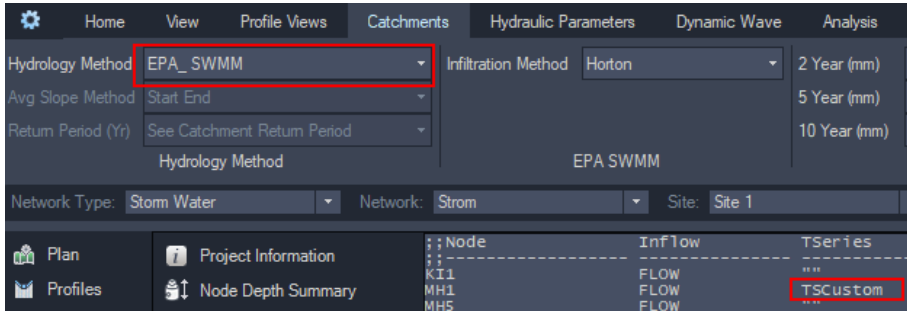
Stormwater networks

Error opening Pipe Manager with storage node structure

An error has been fixed that prevented the Pipe Manager from processing structures that were mapped as storage nodes. This has been fixed.

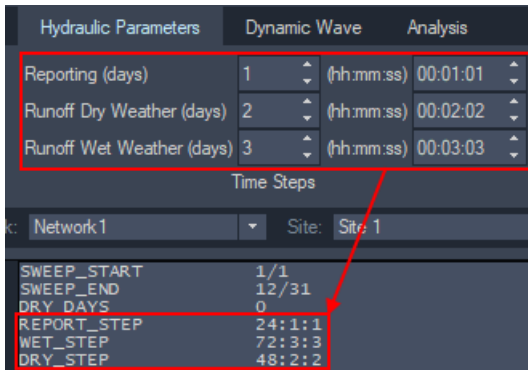
EPA_SWMM method ignores inflow time series

When using the EPA_SWMM hydrology method the time series was not being generated in the INP file. This has been corrected.



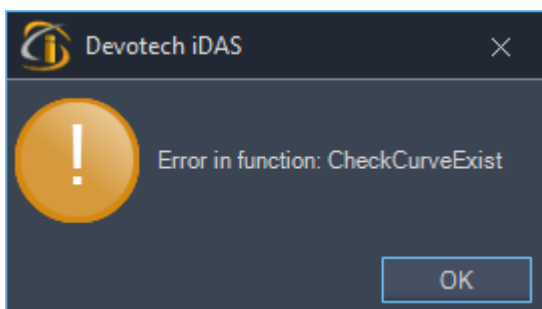
Reporting, dry weather and wet weather times steps incorrect

Reporting, dry weather and wet weather time steps were incorrectly generated in the SWMM INP file. The error has been corrected and the time steps in the INP are now the same as those shown in the ribbon.



Error after a catchment is deleted in modelspace

An error occurred (see image below) when a catchment parcel was deleted in modelspace after having been created in the Pipe Manager. This error has been fixed.



Incorrect conduit mappings

Some conduits mappings were not correctly applied when opening the Pipe Manager. The issue was related to the naming convention of pipe styles. The issue has been fixed and the mapping settings are now saved and restored correctly.

Buttons above the conduits grid does nothing

Some of the buttons above the conduits grid did nothing. That has been fixed and all the button perform the proper action.

Inlet time patterns not updating

After creating a new time pattern the new pattern would not be displayed in the inlets “Inflow Time Pattern” drop-down list until the Pipe Manager was restarted. This has been fixed.

Climate change effect calculations

Total volume calculations for catchments due to climate change effects being applied is now correctly calculated.

The “Exclude from Calculations” column in the catchments grid has been restored.

The climate change percent increase is now editable.

Patterns	Return Period	Percentage Increase in 24-Hour Design Rainfall Depth Due to Future Climate Change
2	2	9.000
5	5	11.300
10	10	13.200
20	20	15.100
50	50	16.800
100	100	16.800

Conduits surcharged report

Headers in the grid were missing. Headers now match the headers in the report file.

Conduit	Hours Full - Both Ends	Hours Full - Upstream	Hours Full - Downstream	Hours Above Full Normal Flow	Hours Capacity Limited
P11	24.000	24.000	24.000	0.010	0.010
P12	24.000	24.000	24.000	0.010	24.000
P13	23.990	23.990	23.990	0.010	23.990
P14	23.980	23.980	23.980	0.010	0.010
P15	0.210	0.210	0.210	23.990	0.210
P16	0.010	0.010	0.010	0.070	0.010
P20	0.070	0.070	0.070	0.010	0.010
P21	0.100	0.100	0.100	0.010	0.010
P22	0.050	0.050	0.050	0.010	0.010

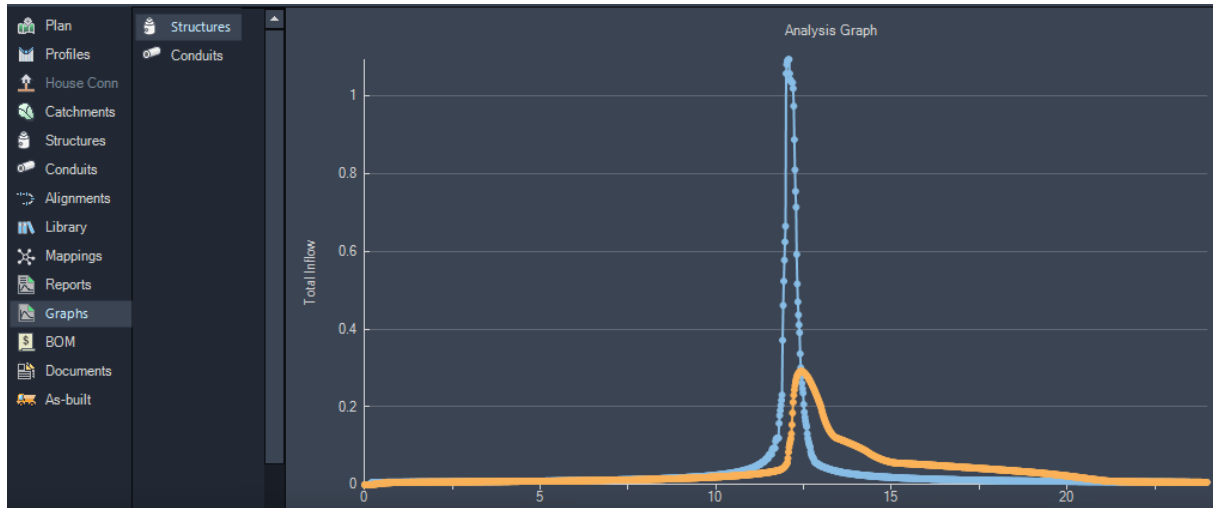
EPA SWMM engine upgrade and surcharged weirs

The EPA SWMM engine has been upgraded from 5.1.006 to 5.1.012. This was done to fix a bug in the engine that prevented surcharged weirs from passing any flows. As a result surcharged weirs will work as expected now.

Pond analysis improvements

Various improvements were done on pond analysis so the ponds with orifices and weirs can be analysed in Pipe Manager.

The image below shows the hydrographs for the inflow into the pond and outflow from the pond:



Limitation:

Hydrographs for orifices, weirs and ponds cannot be displayed in Pipe Manager at this point. The workaround is as following:

1. Import INP file (it is generated automatically during pipe network analysis in Pipe Manager) to Autodesk Storm and Sanitary Analysis (SSA)
2. Run analysis in SSA (all the settings and objects should come through without any issues)
3. Display hydrographs

Sewer networks

House connection reference surfaces are displayed for all networks

Previously only reference surfaces were shown for the active network. Now house connections will display their reference surface irrespective of the active network.

	Parcel Number	Parcel Name	Area (m ²)	House Connection Structure	Connect To Pipe	Reference Network	Private Sewer Polyline
4379	4379	Residential 1 : 4379	285.666	SC4379	P819	Sewer Old	Polyline
4380	4380	Residential 1 : 4380	274.695	SC4380	P819	Sewer Old	Polyline
4381	4381	Residential 1 : 4381	323.899	SC4381	P926	Sewer Old	Polyline
4382	4382	Residential 1 : 4382	300.182	SC4382	P926	Sewer Old	Polyline
4383	4383	Residential 1 : 4383	299.931	SC4383	P926	Sewer Old	Polyline
4384	4384	Residential 1 : 4384	300.182	SC4384	P926	Sewer Old	Polyline
5	5	Residential 1 : 5	283.862	SC5	P422	Sewer New	Polyline
6	6	Residential 1 : 6	433.418	SC6	P422	Sewer New	Polyline
7	7	Residential 1 : 7	251.399	SC7	P285	Sewer New	Polyline
8	8	Residential 1 : 8	255.765	SC8	P742	Sewer New	Polyline
9	9	Residential 1 : 9	726.050	SC9	P422	Sewer New	Polyline

House connection calculated flows and associated data are displayed for all networks

Previously only flows and associated properties were calculated and shown for the active network. Now house connections will calculate and display all data irrespective of the active network.

	Reference Network	Private Sewer Polyline	Private Sewer Length (m)	Inflow Group	Area Based Inflow (ℓ/Day/m ²)	Direct Inflow (ℓ/s)	Total Inflow (ℓ/s)	Inflow Time Pattern	Average Daily Flow Rate (ℓ/s)	Peak Flow Rate (ℓ/s)	Design Flow Rate (ℓ/s)
4379	Sewer Old	Polyline	31.867	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
4380	Sewer Old	Polyline	33.771	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
4381	Sewer Old	Polyline	36.287	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
4382	Sewer Old	Polyline	33.009	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
4383	Sewer Old	Polyline	32.999	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
4384	Sewer Old	Polyline	33.009	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
5	Sewer New	Polyline	32.084	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
6	Sewer New	Polyline	56.918	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
7	Sewer New	Polyline	28.181	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
8	Sewer New	Polyline	30.231	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957
9	Sewer New	Polyline	64.174	Medium	0.000	0.000000	0.024957	<None>	0.008681	0.021701	0.024957

House connection creation limited to the active network

When creating house connections only the active network will be considered when determining the pipe to connect to. The max connection distance, as set in the ribbon, is still used to determine how far a pipe can be from a parcel. To create house connections for multiple network switch to each of the networks and create additional house connection.

House Connections	Hydraulic Parameters	Dynamic Wave	Analysis
Nearest Pipe (Downstream)	Min. Parcel Size (m ²)	50	
Along the Border	Max. Connection Distance	50	
byHouseConnection	Offset from Border (m)*	1	

House Connection Parameters

House connection performance improvements

The time taken to perform certain operations relating to house connections has been drastically improved. The following operations will now take less time to do:

- Opening the Pipe Manager with a large amount of house connections in the drawing
- Switching networks with a large amount of house connections in the drawing
- Creating large amounts of house connections
- Moving an existing house connection

House connection creation for a large numbers of parcels is up to 960x faster now. On our development PCs it took approx. 5 minutes to create 4800 house connections. Creating the same number of house connections in the previous version took approx. 327 minutes.

Note that the size of the reference surface (number of points and density of points) has an effect on the speed of house connection creation. When creating 4800 house connections with a surface containing approx. 900 000 points it took just under 5 minutes, whereas creating the same number of house connections with a reference surface containing approx. 2 200 000 points took approx. 20 minutes.

House connection inflow group icon

The inflow group icon on the context menu for house connections has been changed to be consistent with the ribbon icon.



House connection grid export information dialog

When exporting the house connections grid to a spreadsheet, a dialog will now be displayed informing the user to ensure that they have calculated the house connection elevations before exporting, as calculating the elevations requires the user to click the “Calculate HC” button to perform the calculation. This is done for performance reasons.

House connection line not being removed when house connection deleted

When deleting a house connection the house connection line remained visible in the map area. This has been resolved and the map now updates correctly.

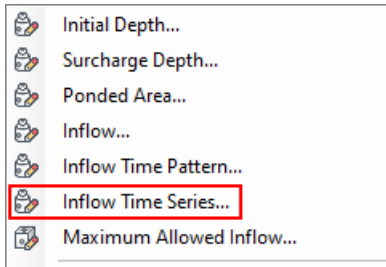
Manholes’ time series not being used in analysis

Time series assigned to sewer manholes was not being generated in the SWMM INP file. This has been corrected.

Network Type:	Sewer	Network:	Sewer	Site:	Stands
Plan	Project Information	P5 . 1	0 . 700	0 . 000	
Profiles	Node Depth Summary	P5 . 2	0 . 700	0 . 000	
House Conn	Node Inflow Summary	P5 . 3	0 . 700	0 . 000	
Catchments	Node Surchage Summary	P5 . 4	0 . 700	0 . 000	
Structures	Node Flooding Summary	[INFLOWS]			
Conduits	Outfall Loading Summary	; ; Node	Inflow	TSeries	
Alignments	Link Flow Summary	; ;			
		SC16	FLOW	""	
		SC15	FLOW	""	
		MH1 . 1	FLOW	Curve1	
		SC27	FLOW	""	
		SC27	FLOW	""	
		MH4 . 1	FLOW	Curve1	
		SC3	FLOW	""	

Manholes grid context menu

An item to fill in inflow time series for selected rows has been added to the context menu of the manholes grid.

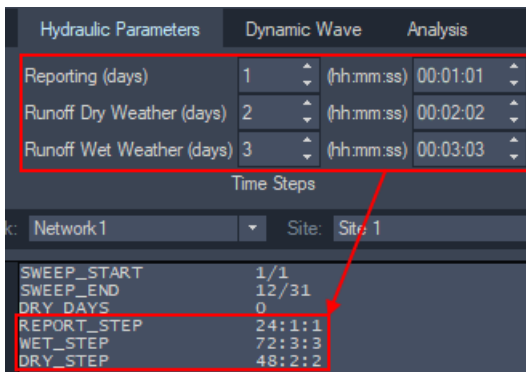


Outfall INP missing properties

When the outfall was set to TIDAL or TIMESERIES the gate/flap and time series properties were not created properly in the INP file. This has now been fixed.

Reporting, dry weather and wet weather times steps incorrect

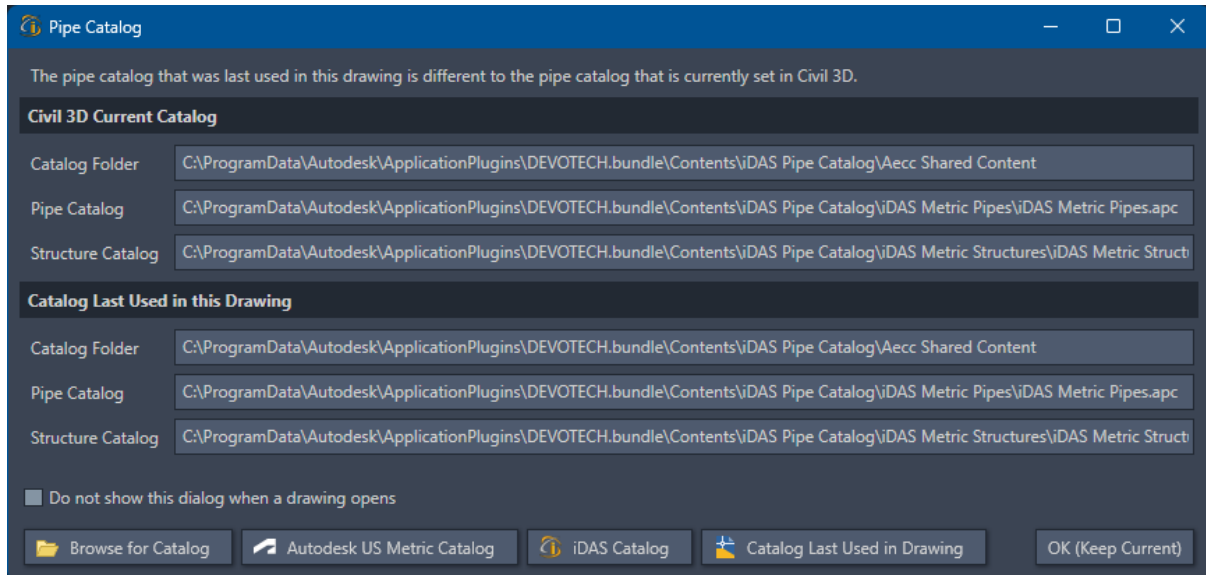
Reporting, dry weather and wet weather time steps were incorrectly generated in the SWMM INP file. The error has been corrected and the time steps in the INP are now the same as those shown in the ribbon.



Commands from iDAS ribbon improvements

Pipe Catalog Check improvements

The pipe catalog check dialog has been overhauled to make feedback and choices clearer. Crashes during batch plotting or plotting from the sheet set manager have been fixed.



T-Intersection Wizard cannot find an intersection

When a custom UCS was set, the intersection point could not be found. This has now been resolved.

Intersection PVI error inserting PVI

When a PVI was being inserted on top an existing PVI then an “Error inserting PVI” error would be displayed. The behaviour has been changed to modify the elevation of the exiting PVI if there is an existing PVI at the same location. Note that an error message will still show if a PVI is inserted on a vertical curve. This is intentional.

The error dialogs have also been updated to make messaging more clear.

Pipe Crossing Station command improvements

This command has been updated to allow for crossing alignments to also be renamed according to the station. This enables easy renaming of both a pipe and its associated alignment together. The format of the station has been changed to match the options under the alignment feature settings.

Stormwater, Sewer and Water Wizards error when creating pipes from 3D polylines

An error occurred when pipes were created from 3D polylines if the polylines had 2 vertices at the same location (duplicate vertices). The wizards will now skip any duplicate vertices during pipe creation.

Compare Profiles command crashes

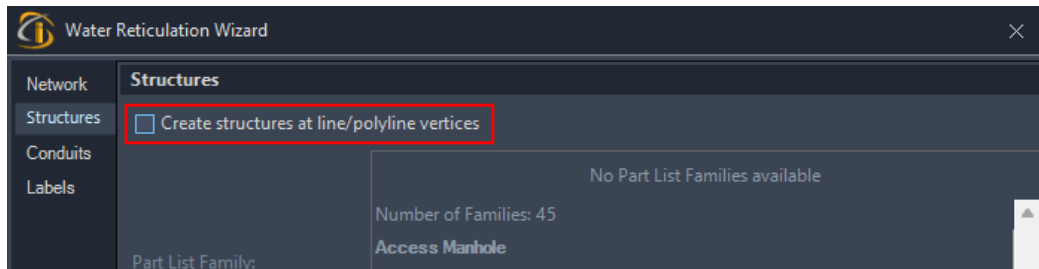
Occasionally, due to a specific set of circumstances, the Compare Profiles command would crash. This has now been fixed.

Water Wizard outfall option, create structures option, and part selection problem

The option to select an outfall location was removed from the water wizard as this option only applies to sewer and stormwater networks

If the pipe or structure family was selected using the keyboard the part size list would not update correctly. This has been resolved and the lists can now both be clicked with a mouse or navigated with the keyboard.

An option has been introduced which allows the user to skip creating structures and just create conduits.



General Plan Production command profile view gaps, duplicate sheet names, and non-zero starting station

The General Plan Production command would not always create a sufficient gap between profile views. This has been resolved and a gap will now always be present.

If the same name was used for the sheets then new sheets would not be created. This has been resolved and sheets with duplicate names will now be appended with a number, e.g. "(1)"

If the starting station of the selected alignment did not start at zero then the profile views would not be created correctly. This has been resolved and alignments with non-zero starting stations can now be used.

Regrade Network command interface issues

Occasionally the OK button would remain disabled even though all items were filled in correctly in the dialog. This issue has been resolved.

The Conduit Depth Options and Structure Depth Options would allow blank values to be input, this has been resolved and now there will always be a number inserted into the input fields.

T-Intersection Wizard improvements

Error reporting has been improved so that it is now easier to understand what went wrong during the creation of the intersection. The terminology has also been changed to be inline with similar commands. "Road 1" and "Road 2" is now "Secondary Road" and "Main Road".

SA Coordinates right click error

If the user right clicked to cancel the command then an error occurred. This has been resolved and the error will no longer occur and the command will end as expected.

Polyline Elevation error

An error would occur if MText was used instead of Text. This has been resolved and both MText and Text can now be used in the command.

Move Point Labels improvements

Added an option to indicate the slope of the leader by indicating a line and last chosen keyword will now be the default keyword. This enables the user to press Enter repeatedly to quickly repeat the last command.

Proxy surface problems

If a proxy surface was present in the drawing then multiple commands that referenced surfaces would not work correctly. This has been resolved and proxy surfaces will no longer negatively affect commands.

iDAS Civil 3D template improvements

Templates version number

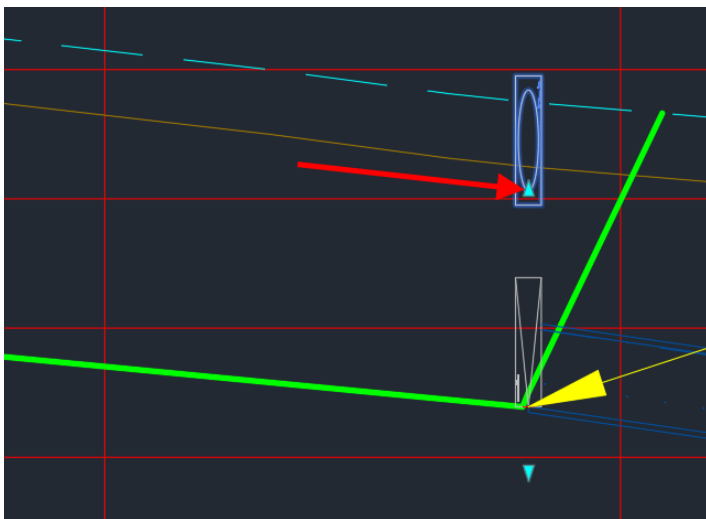
Then new iDAS templates have version number 338.

Utilities part list

All the conduits have wall thickness 0.1 mm, therefore inner diameter is almost identical with outer diameter. For the utilities, the outer diameter is often known and not the inner diameter. Making wall the thickness very small removes the confusion between the inner and outer diameter.

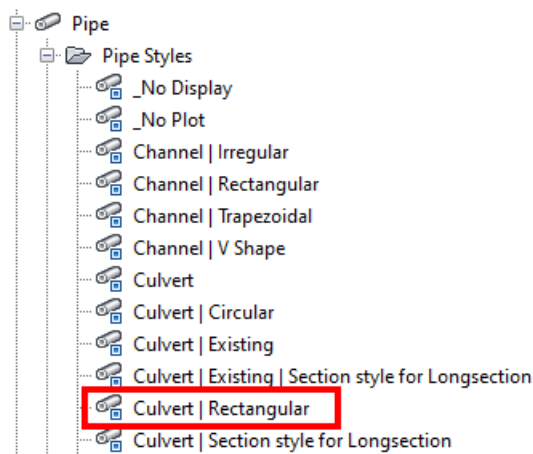
Orifice structure styles have style block attached to structure rim

When modelling a pond, orifice rim elevation is used as an orifice crest elevation, therefore, it makes more sense to attach orifice block to rim elevation.



New culvert style

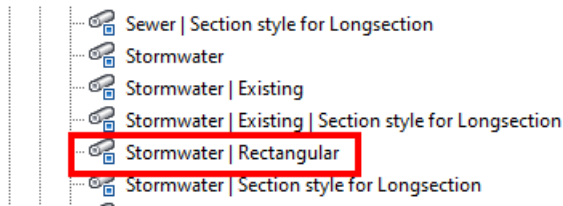
Culvert | Rectangular style was added to template:



The default Culvert style should be used for circular culverts.

New stormwater style

Stormwater | Rectangular style was added to template:



The default Trapezoidal style should be used for circular pipes.

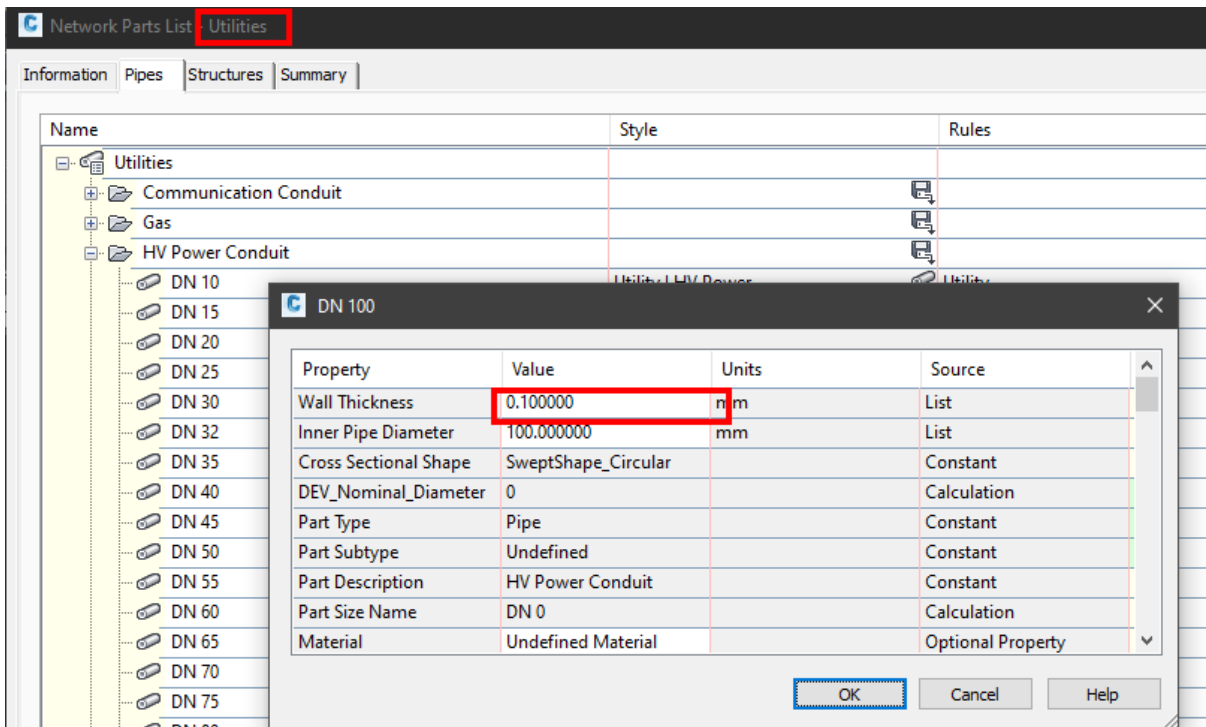
RSA Stormwater part list update

The latest channel families were added to RSA Stormwater part list (only one size per channel type was added but other sizes can be imported as per project's needs):

Channel Rectangular	W 500 H 800 WALL 100	Channel Rectangular	Stormwater Same Rules for All Pipes	ByLayer
Channel Trapezoidal	BOTTOM W 800 H 600 WALL 100 LS 1:2.000 RS 1:2.000	Channel Trapezoidal	Stormwater Same Rules for All Pipes	ByLayer
Channel V Shape	H 600 WALL 100 LS 1:2.000 RS 1:2.000	Channel V Shape	Stormwater Same Rules for All Pipes	ByLayer

Conduits wall thickness in Utilities part list

Conduits wall thickness in the Utilities part list was set to 0.1 mm therefore nominal diameter is equal to the outer diameter to make it easier for the designers to use the correct outer conduit size (most of the time a utility outer diameter is known and not the inner diameter and wall thickness).



KNOWN ISSUES

Pipe Manager Issues

No backwards compatibility between iDAS 12 and older versions (10 or 11)

Any pipe networks which are opened in **iDAS 12 Pipe Manager** cannot be opened in Devotech iDAS 10 or 11 (Storm, Sewer and Water managers), because there is no backwards compatibility. We had to improve the mapping functionality and we could not make it backwards compatible.

Surfaces are not displayed in the Pipe Manager

The surfaces were removed improve Pipe Manager performance.

Orifice crest seems incorrect in the pond profile in iDAS Pipe Manager

This is just a graphical issue; the correct crest elevation is used for the analysis.

Weir crest elevation cannot be adjusted in the iDAS Pipe Manager

The user must go to Civil 3D model space to adjust the weir crest elevation which is the same as a structure sump elevation.

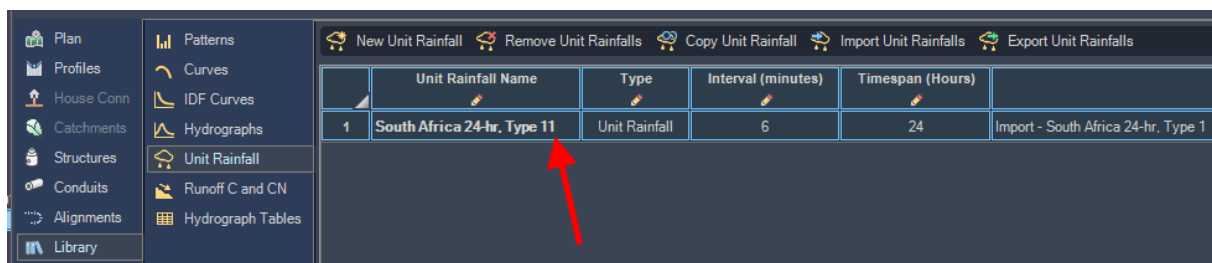
Grading does not work correctly if the profile view starts at Outfall

Import INP to SSA does not import Surcharge Depth

If you import a INP file to SSA, it might not import the **Surcharge Depth**. This is a SSA bug. To avoid this issue, open any existing SSA file (file with SPF extension) and then import the INP file again. It seems that when any SPF file is opened (it can even be an empty file) it forces SSA to load all the components correctly and importing the INP file works as it should.

Import library objects always adds number 1 at the end of the name

This behaviour changes the name of the imported object, e.g. Pattern, Curve, Hydrograph etc., therefore it does not match with the description. This behaviour is intentional to avoid issues with the duplicate names.

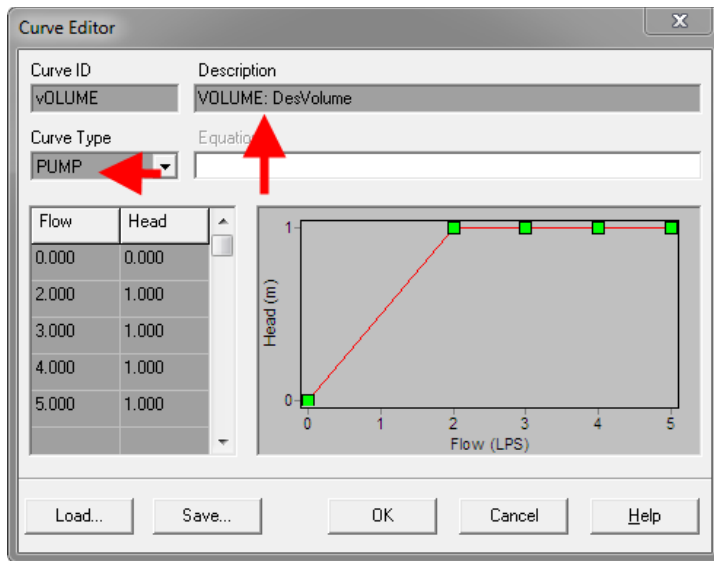


Cannot set time series for direct inflow

Direct inflow is used for the inflow from catchments when the Rational Method is used. The EPASWMM engine does not allow to specify multiple direct inflows with various time series, therefore we could not implement the time series for the direct inflow.

Curve type is not correctly imported to EPANET

When importing INP file to EPANET v 2.00.12 and newer, the curve type is not correct, all the curves have PUMP as type. This is an EPANET bug. EPANET v 2.00.10 works as expected.



Kerb inlet overflow links are not implemented

Stormwater detention ponds have multiple bugs

It is possible to analyse a detention pond with Devotech iDAS Pipe Manager but there are some bugs that we want to fix in the future.

iDAS Commands Issues

Help command limitations

- Help center takes a bit longer when opened for the first time (it must load all the resources)
- The videos do not play on a single click (only sound plays), a user must double click on the video
- On some computers scrolling does not work if the Help center window is moved to a non-primary screen.

The profiles from pipes do not update dynamically

Rename command had to be removed

We could not use the old rename command because of the name conflicts. We want to implement new rename functionality. In the meantime, you can use the workflows in these videos:

Stormwater, sewer and water reticulation networks:

<https://www.devotechgroup.com/storm-water-training?wix-vod-video-id=a8a76c0535a14ef39519d81c77e93b71&wix-vod-comp-id=comp-jck4lbf2>

Bulk water networks:

<https://www.devotechgroup.com/bulk-water-training?wix-vod-video-id=2a53063bebf14e5e8880d5708eaff58d&wix-vod-comp-id=comp-jck6l0rb>

iDAS Swap Pipes command and Swap Structures command delete user defined fields

If swap commands are used, then the **User Defined Fields** are deleted from the pipe or structure properties

User Interface Issues

Menu bar icons might show question marks in older Civil 3D versions

We could not find a solution for this problem.

Some icons are difficult to see on light themes

The icons were primarily developed for a dark theme therefore, the visibility might be sacrificed on light themes.

