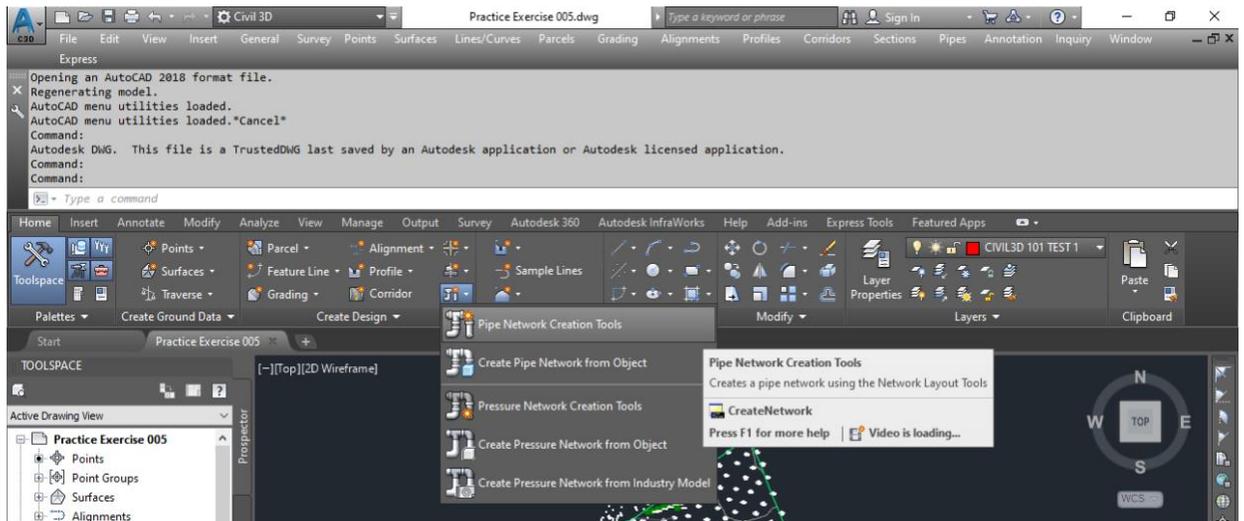


Solution Exercise 5

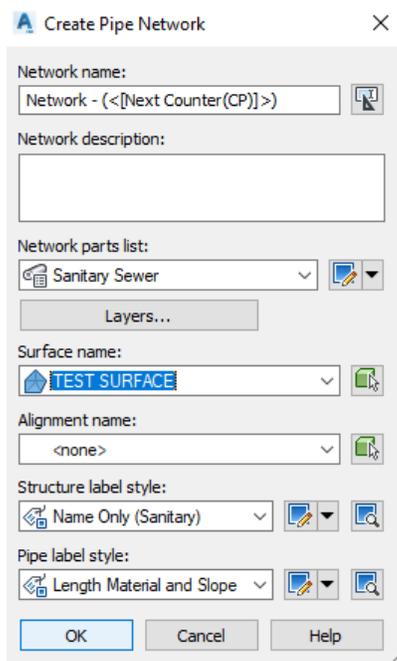
Create a Pipe Network



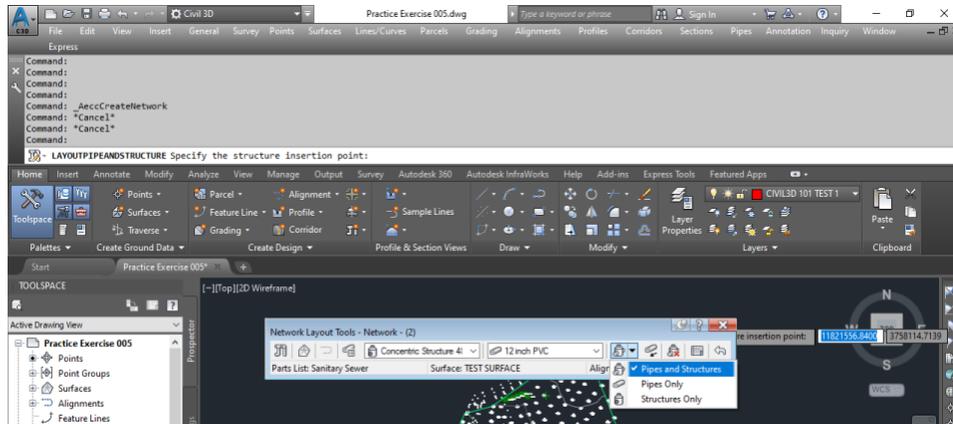
1. Open Practice Exercise 005.dwg.
2. In the Create Design panel, choose Pipe Network Creation Tools from the Pipe Network drop-down menu.



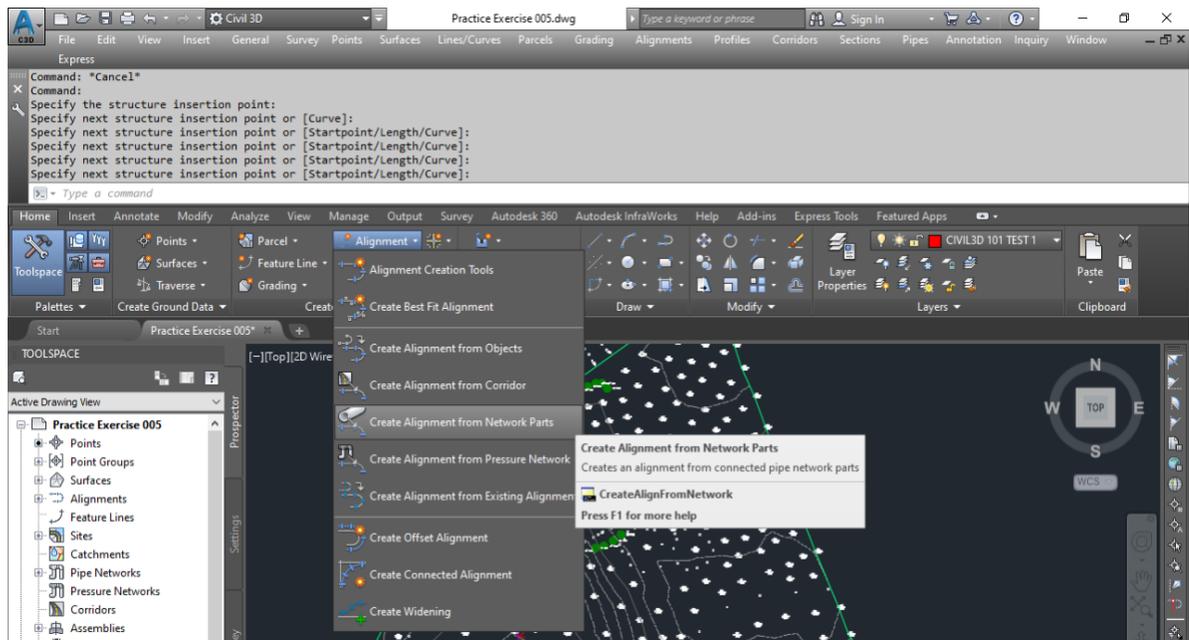
3. Set the Network Parts List to Sanitary Sewer and the Surface Name to TEST SURFACE.



- In Network Layout Tools, set the structure type to the only concentric cylindrical structure and the pipe type to 12 inch PVC. Toggle build direction to Downslope and choose the Pipes and Structures creation method.



- Pick structure insertion points starting at the center of circle 1 and moving in numerical order through to circle 5.
- In the Create Design panel, under Alignment choose Create Alignment From Network Parts.



7. Select the first structure and then the last structure. Press Enter to exit the command.
8. Accept the default options by clicking OK.

Create Alignment - From Pipe Network

Site: <None>

Name: Alignment - (<[Pipe Network Name(CP)]>.

Type: Miscellaneous

Description:

Starting station: 0+00.00'

Alignment style: Proposed

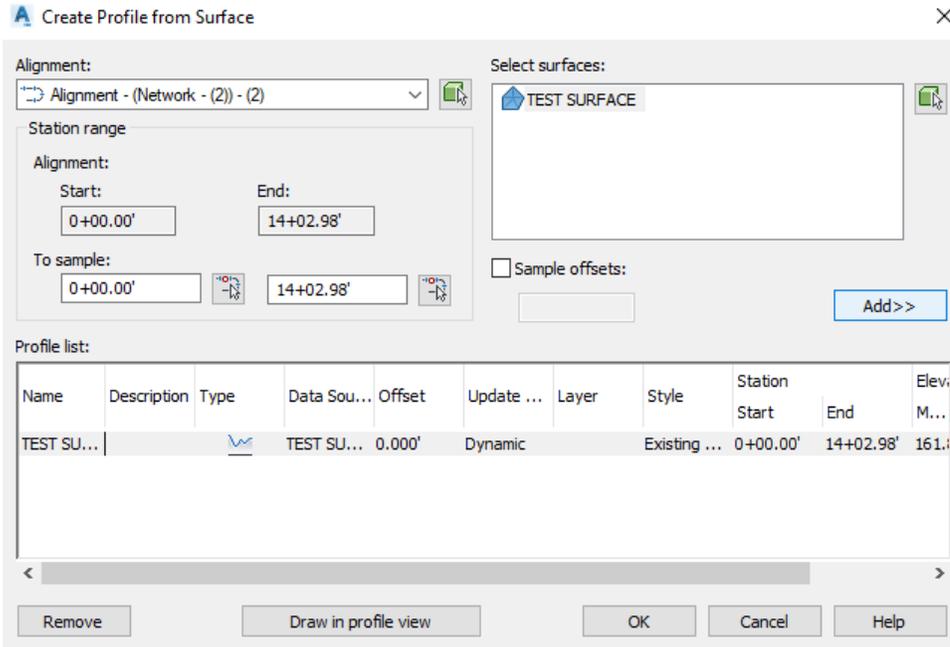
Alignment layer: C-ROAD

Alignment label set: All Labels

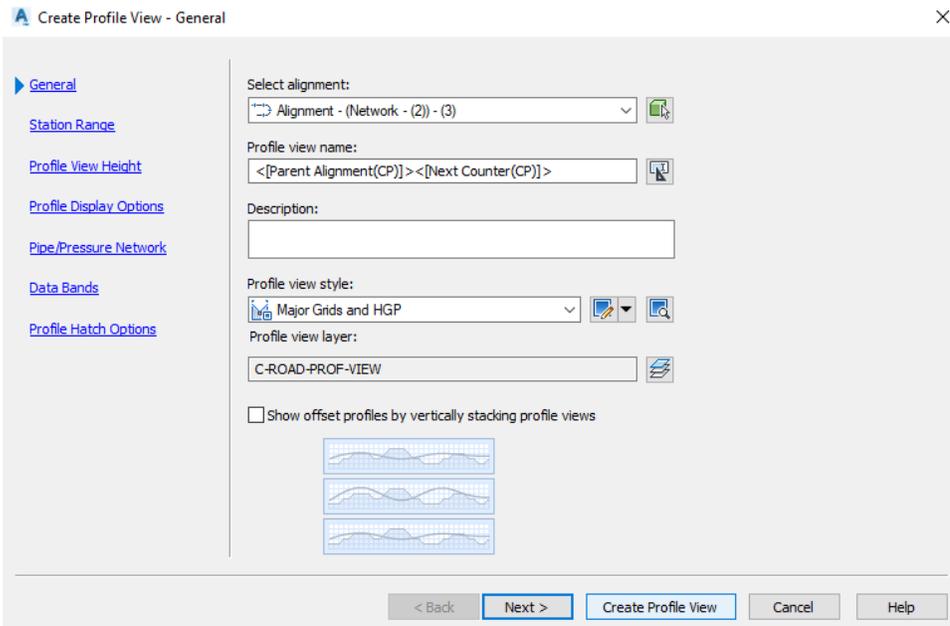
Create profile and profile view

OK Cancel Help

9. Add the TEST SURFACE as a surface profile and then click Draw in Profile View.

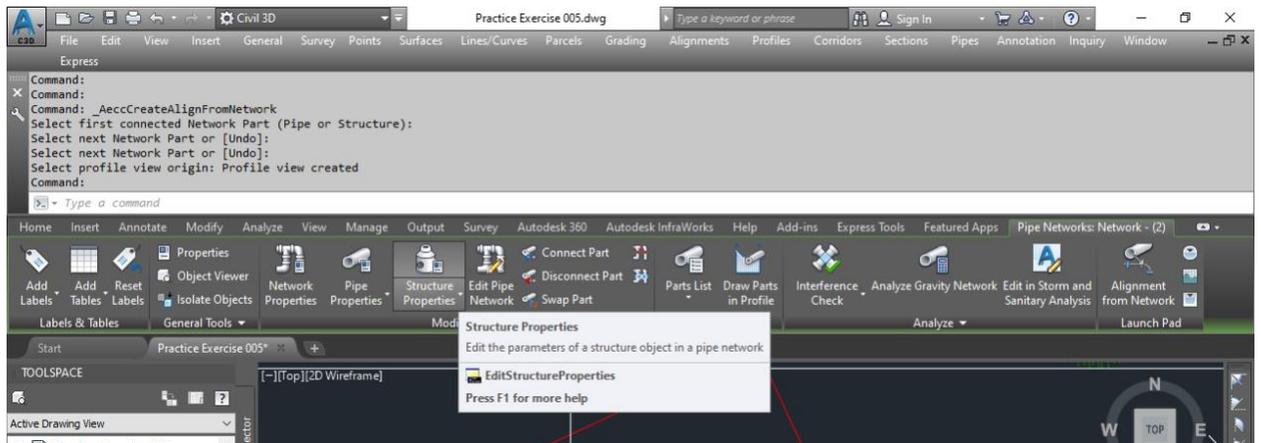


10. Accept all Create Profile View defaults and click Create Profile View.

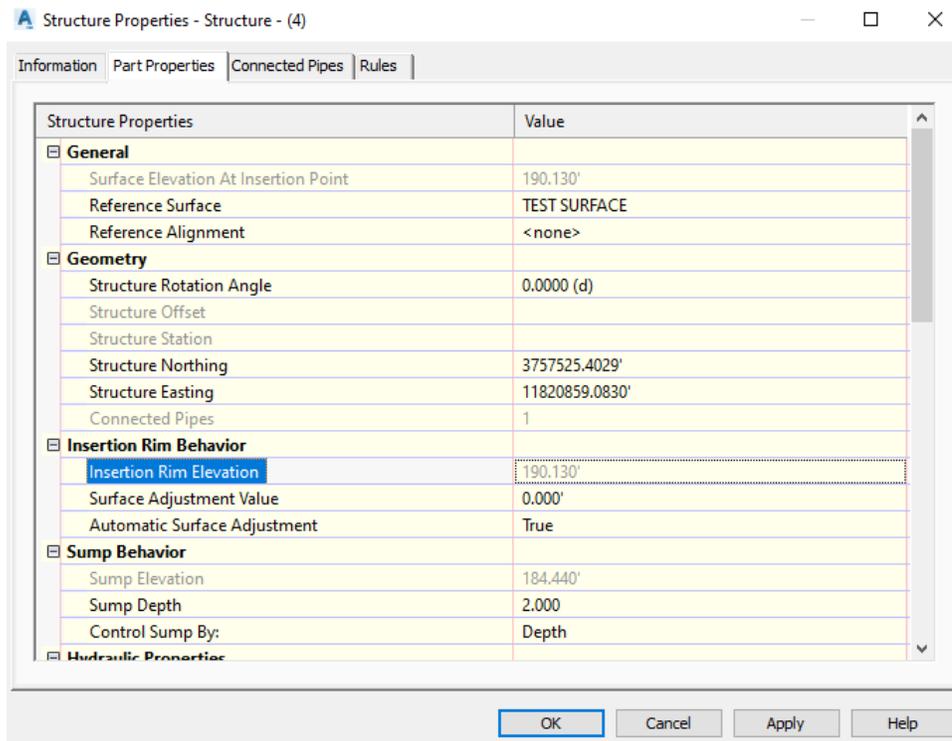


11. Pick the lower-left corner of the profile view.

12. Select the structure at Circle 1 and click Structure Properties.

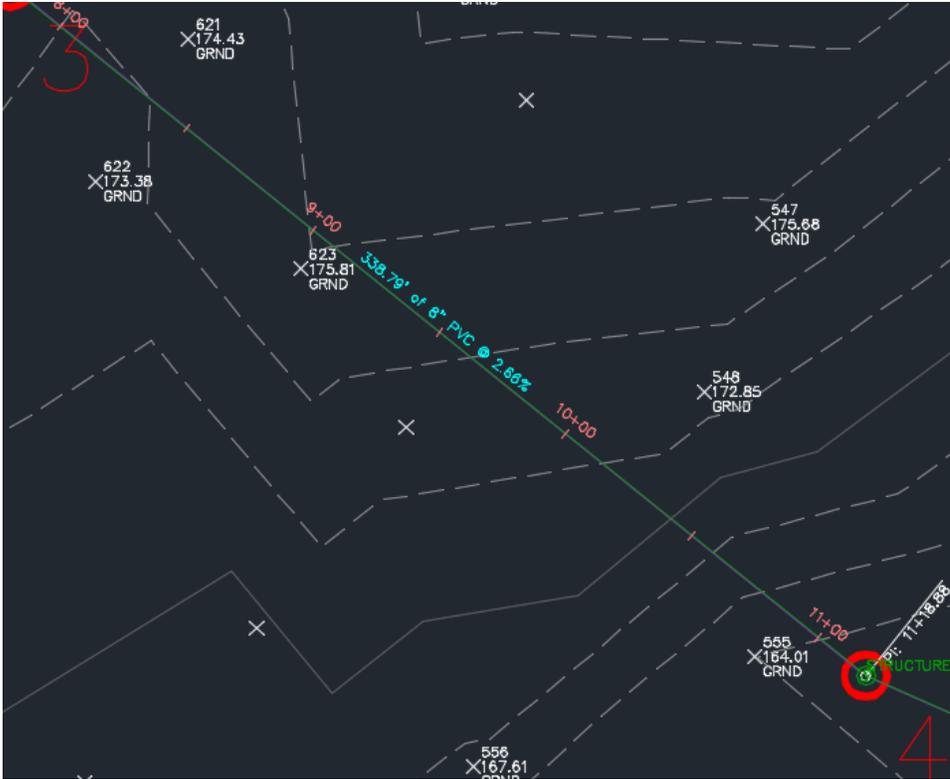


13. Take note of the Rim Elevation.

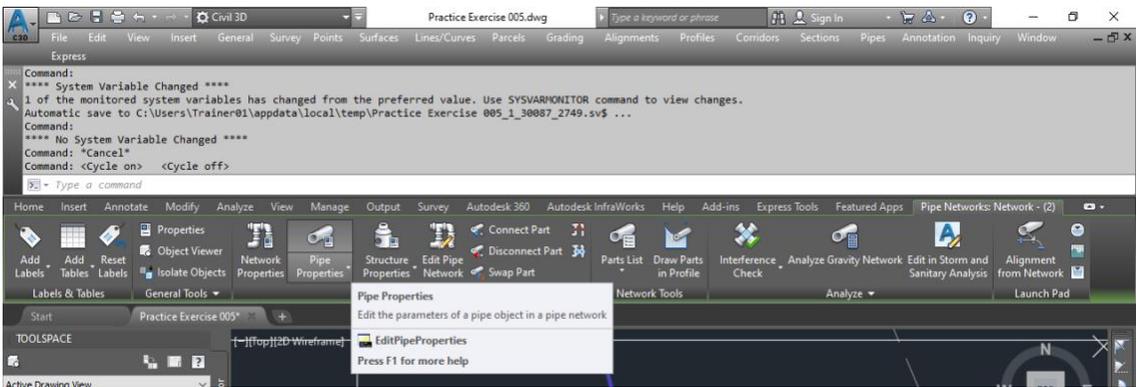


14. Navigate to the center of the pipe between 3 and 4.

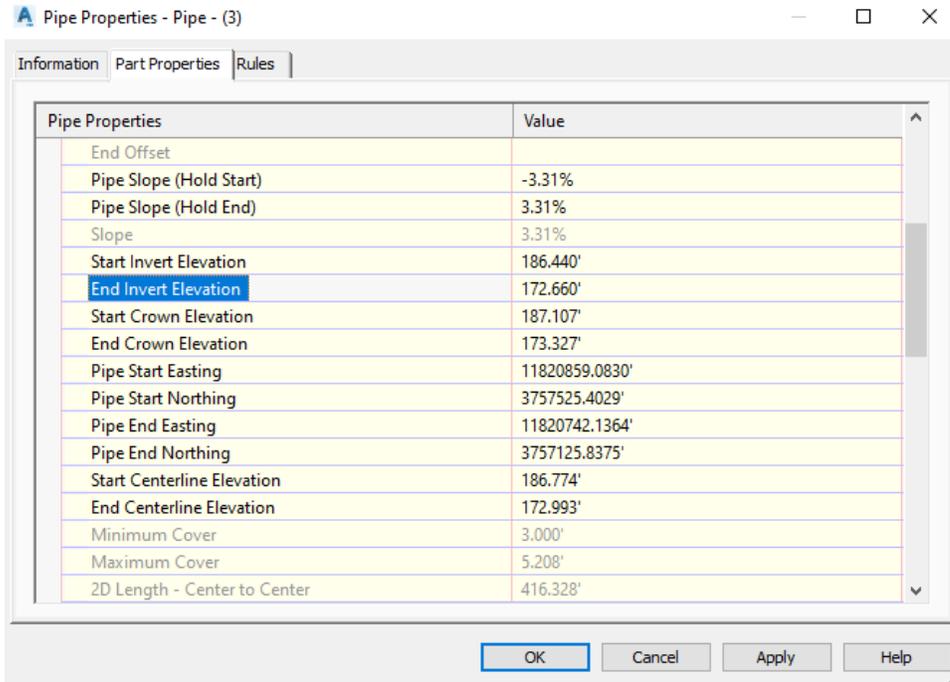
15. Take note of the slope.



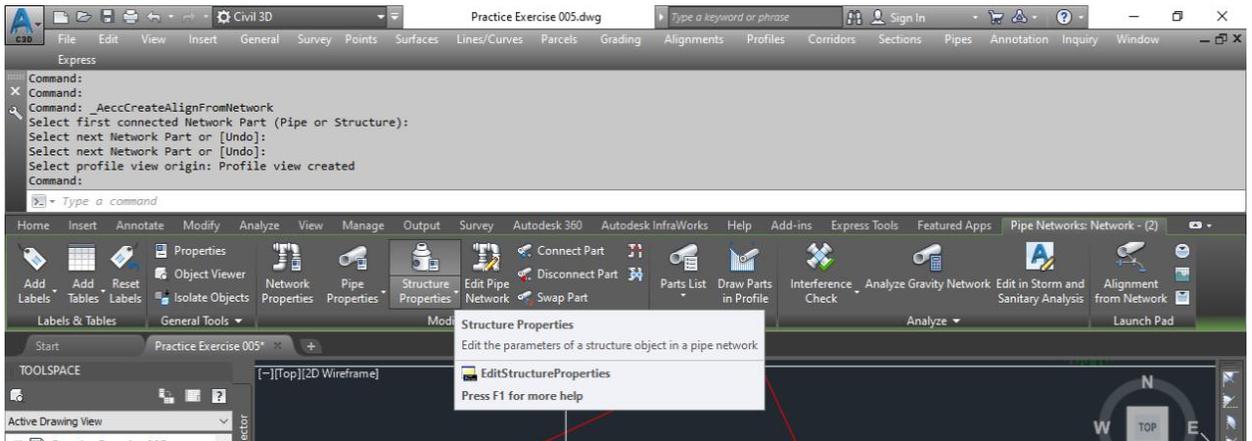
16. Select the pipe between 1 and 2 and then choose Pipe Properties.



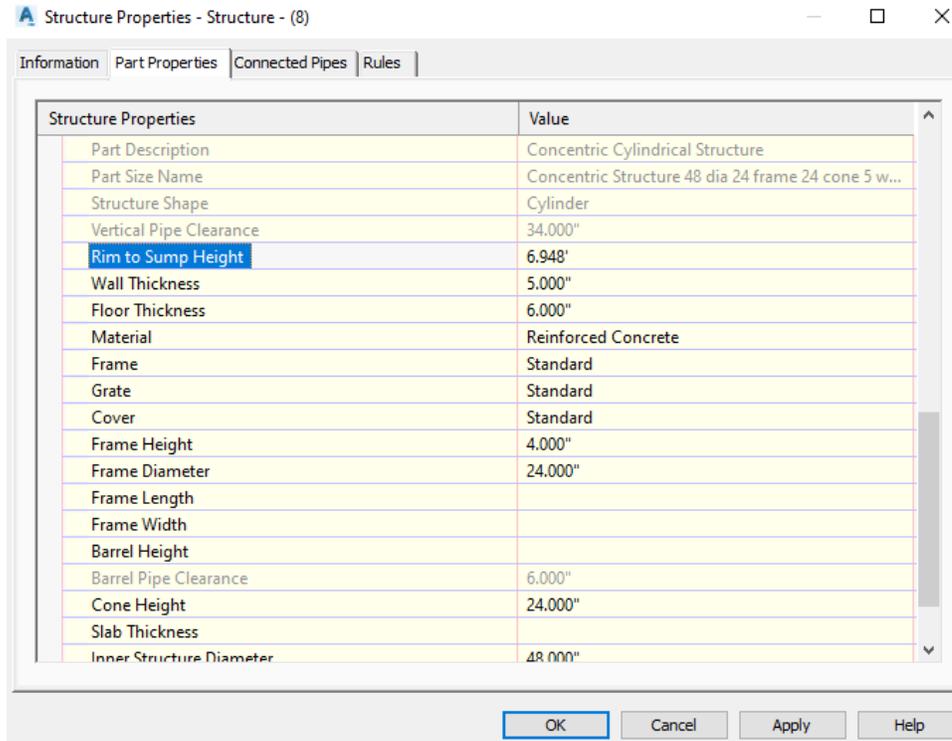
17. Take note of the End Invert Elevation.



18. Select the structure at Circle 5 and click Structure Properties.



19. Take note of the Rim to Sump Height.



ANSWERS

What is the Rim elevation of the structure at 1? 190.13

What is the percent slope of the pipe between 3 and 4? 2.66

What is the end invert elevation of the pipe between 1 and 2? 172.66

What is the Rim to Sump height of the structure at 5? 6.95