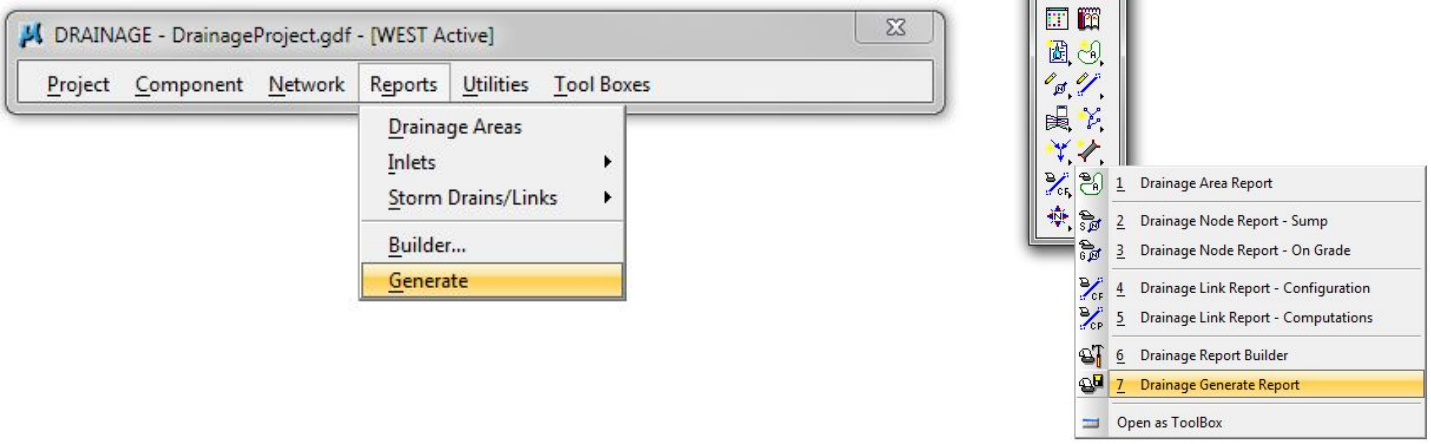
12. Reports

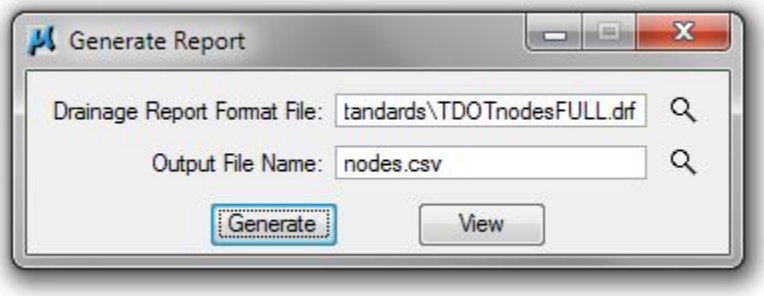
This exercise shows the user the report options by creating standard and customized reports.

12.1 Customized Reports

a) Select **Reports > Generate** from the Drainage Menu Bar or **Drainage Generate Report** from the Drainage Toolbar*:*



b) Use the browse button to select report format file **TDOTnodesFULL.drf** (from C:\Users\Public\Geopak Standards\). Click in the Output File Name area and type in **nodes.csv** as the file name. Click **Generate** to create the report file.



c) Use Excel to open and review **nodes.csv** report file.

d) Access report format **TDOTlinksFULL.drf** and generate **links.csv** report file.

e) Use Excel to open and review **links.csv** report file.

12.2 Excel Tab Builder

a) Open Excel and click **File > New**

b) Click **My templates > TDOT English Tab Quantities > Storm Drainage Structure Tab Builder**

If the “My templates” button does not provide you with the Storm Drainage Structure Tab Builder excel file, then navigate to **C:\Users\Public\Office Standards\TDOT English Tab Quantities** and open the file there. Do a “Save As” and save it into your Project folder before making any changes.

c) Click **Build Catch Basins and Manholes Block**.

d) Navigate to the project folder, select the file **nodes.csv** created in Exercise 12.1 and click open. The tab block is created.

CATCH BASINS														
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT.)	STANDARD DRAWINGS	TYPE 12 C.B. 611-12.01 0' - 4'	TYPE 12 C.B. 611-12.02 4' - 8'	TYPE 42 C.B. 611-42.01 0' - 4'	TYPE 43 C.B. 611-43.02 4' - 8'	REMARKS
	CL	11+45.00	26	CB-13	865.16	#12	4X3	4.59			1			
	CL	12+00.00	-26	CB-12	863.9	#12	4X3	5.9			1			
	CL	14+00.00	-26	CB-14	860.14	#12	4X3	6.64			1			
	CL	3+70.00	-26	CB-1	880.97	#12	4X3	3.88		1				
	CL	3+70.00	26	CB-2	880.95	#12	4X3	4.05			1			
	CL	3+70.00	35	CB-5	881.51	#42	4X4	3.8				1		
	CL	6+20.00	-26	CB-3	874.68	#12	4X3	5.24			1			
	CL	6+20.00	26	CB-4	874.66	#12	4X3	3.88		1				
	CL	6+20.00	-50	CB-7	874.11	#43	8X4	4.42					1	
	CL	8+00.00	26	CB-9	870.78	#12	4X3	4.21			1			
	CL	8+00.00	38	CB-10	872.38	#43	8' DIA	4.49					1	
	CL	9+30.00	-26	CB-6	868.55	#12	4X3	4.42			1			
	CL	9+30.00	-35	CB-8	869.19	#42	4X4	3.8				1		
	CL	9+30.00	26	CB-11	868.52	#12	4X3	4.38			1			
TOTALS										2	8	2	2	

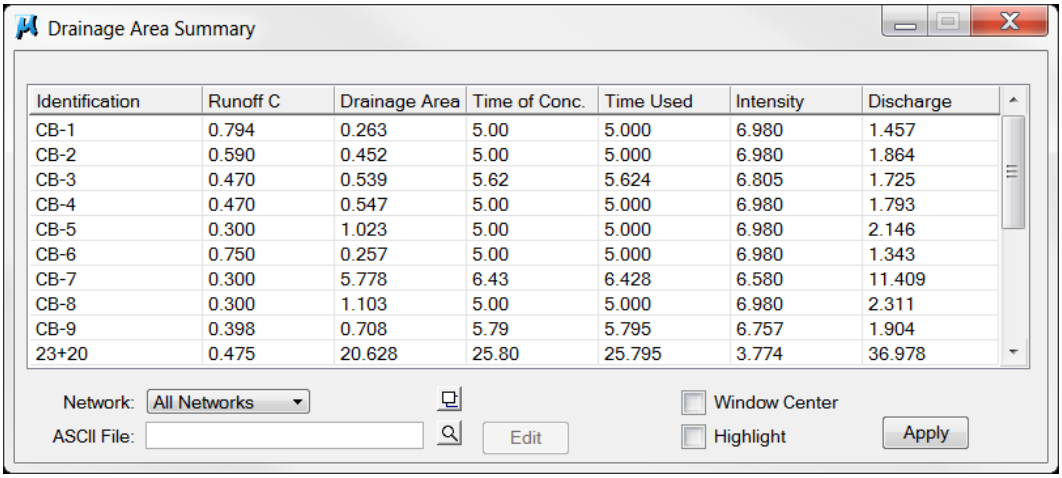
e) Repeat Step 1 through Step 4 using the **links.csv** file and the **Storm Drainage Pipe Tab Builder**

STORM DRAINAGE PIPES									
SHEET NO.	FROM		TO		% GRADE	RCP CLASS III			
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		607-03.02 18" (L.F.)	607-05.02 24" (L.F.)	607-06.02 30" (L.F.)	607-07.02 36" (L.F.)
	CB-1	877.09	CB-3	870.93	2.50	246			
	CB-2	876.90	CB-4	870.95	2.42	246			
	CB-3	869.44	CB-6	864.30	1.68		306		
	CB-4	870.78	CB-9	867.07	2.11	176			
	CB-5	877.71	CB-2	877.07	9.82	6			
	CB-6	864.13	CB-12	859.65	1.68		266		
	CB-7	869.69	CB-3	869.61	0.40		19		
	CB-8	865.39	CB-6	864.80	9.13	6			
	CB-9	866.57	CB-11	864.31	1.79		126		
	CB-10	867.89	CB-9	867.07	11.00	7			
	CB-11	864.14	CB-13	860.74	1.61		211		
	CB-12	858.00	CB-14	854.00	2.10			191	
	CB-13	860.57	CB-12	859.65	1.27		72		
	CB-14	853.50	EW-1	850.42	4.18				74
TOTALS						688	1000	191	74

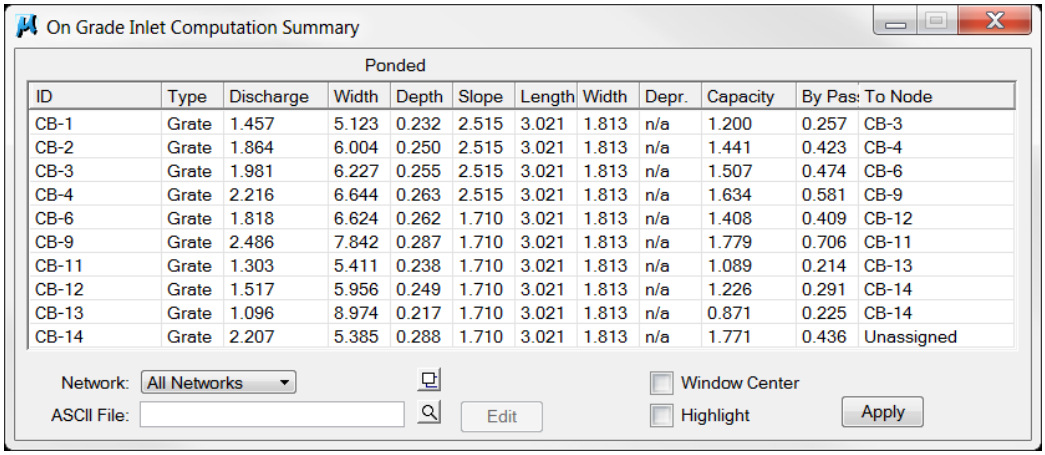
12.3 Standard Reports

Geopak Drainage also provides several standard reports which are useful during storm drainage network design. The current Active Network will determine which drainage features are listed.

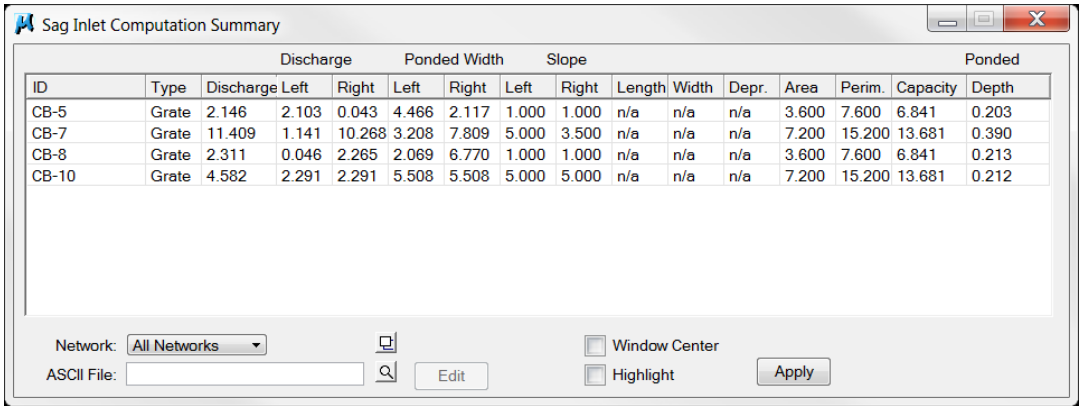
a) Select **Reports > Drainage Areas** from the Drainage Menu Bar.



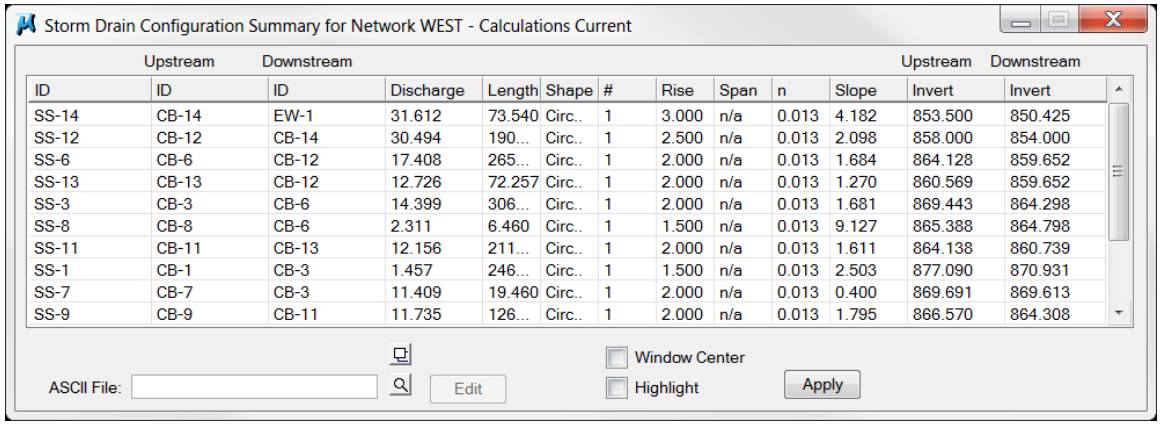
b) Select **Reports > Inlets> On Grade Inlets** from the Drainage Menu Bar.



Sag Inlets



c) Select **Reports > Storm Drains/Links> Link Configuration** from the Drainage Menu Bar.



Link Hydraulic Calculations