

Workflow 5: Calculating “Seeding” Quantities

1. *Open the cross section file, project manager, and select the Reports & XS quantities button.*

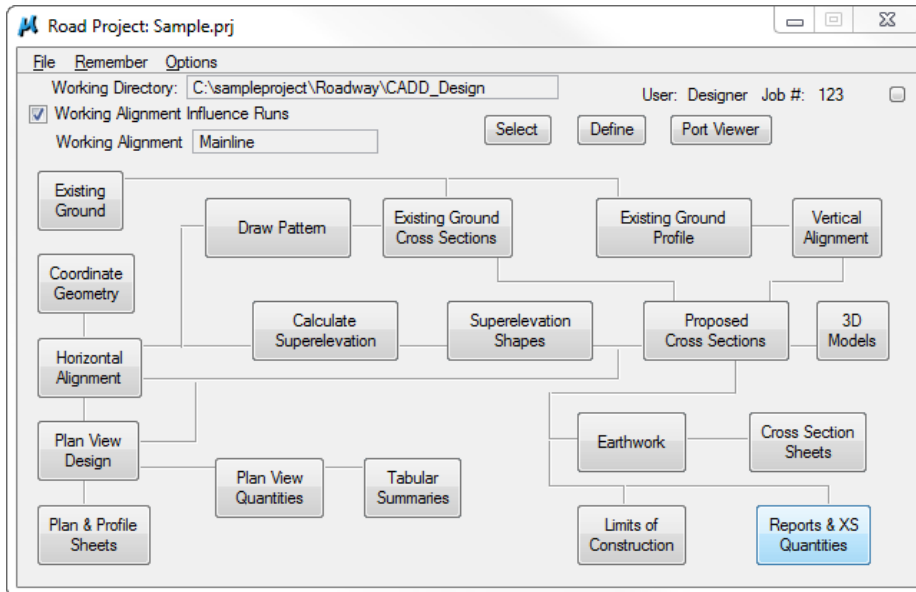


Figure 10.5-1: Accessing Reports & XS Quantities

Or by pressing the XS Reports button from the Road Tools Dialog Box.

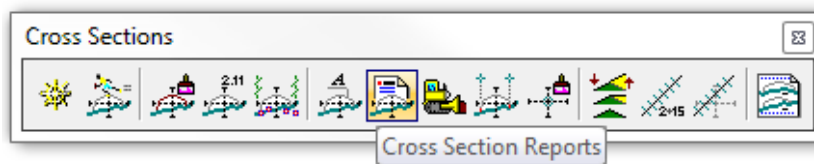


Figure 10.5-2: Accessing Cross Section Reports Icon

2. *Select User>Preferences.*

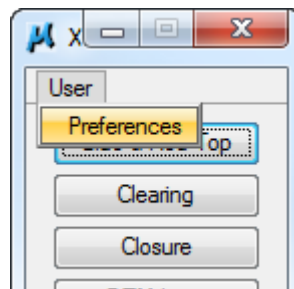


Figure 10.5-3: Reports Dialog Box

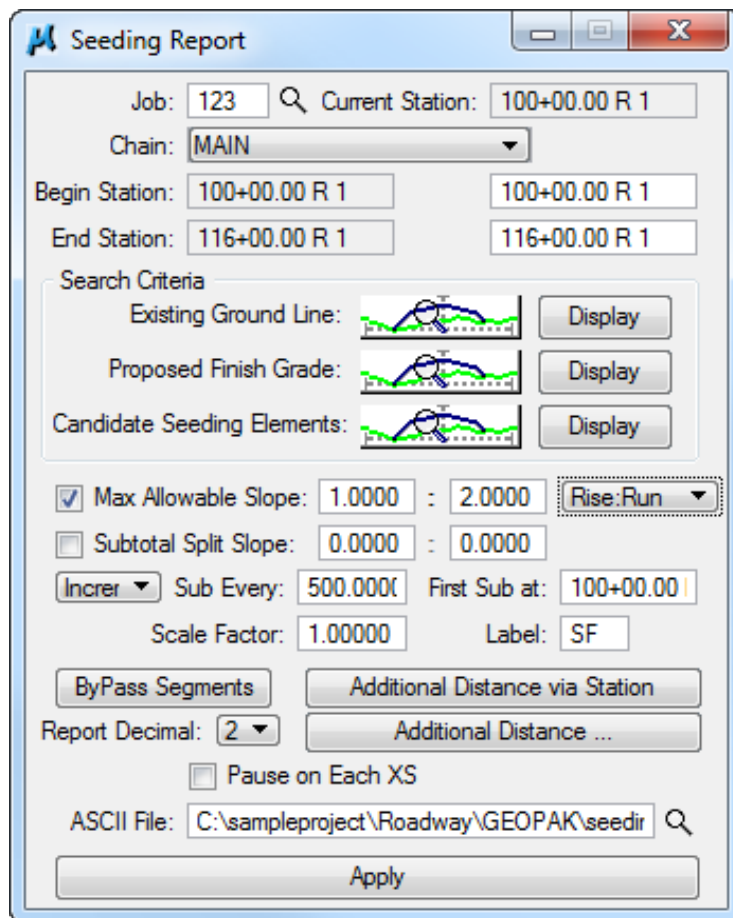
3. *Populate the Report headers. Include the Project Number in the Master Header 1 space, and the Road Name in the Master Header 2 space. This information will be put at the top of the quantity report.*

Figure 10.5-4: Report Settings

4. *Press the Seeding button on the XS Report dialog box. This will bring up the Seeding Report Dialog box.*

Figure 10.5-5: Seeding Button

5. *Adjust the Beg Station and End Station to ensure that they are the stations you want. For multiple station ranges, the report may need to be run multiple times.*

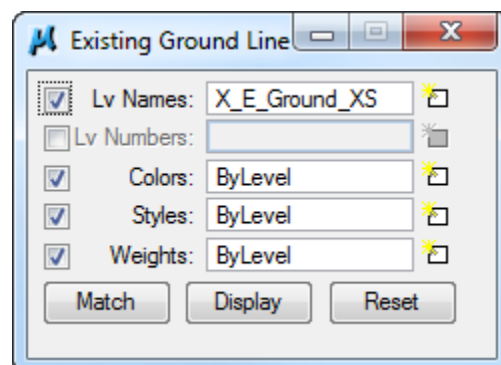


The Seeding Report dialog box contains the following fields and controls:

- Job: 123
- Current Station: 100+00.00 R 1
- Chain: MAIN
- Begin Station: 100+00.00 R 1
- End Station: 116+00.00 R 1
- Search Criteria:
 - Existing Ground Line: [Display]
 - Proposed Finish Grade: [Display]
 - Candidate Seeding Elements: [Display]
- ☒ Max Allowable Slope: 1.0000 : 2.0000 Rise:Run
- ☐ Subtotal Split Slope: 0.0000 : 0.0000
- Increr: Sub Every: 500.000 First Sub at: 100+00.00
- Scale Factor: 1.00000 Label: SF
- ByPass Segments
- Additional Distance via Station
- Report Decimal: 2
- Additional Distance ...
- ☐ Pause on Each XS
- ASCII File: C:\sampleproject\Roadway\GEOPAK\seedir
- Apply

Figure 10.5-6: Seeding Report Dialog

6. *Select the Existing Ground Line symbology button and set as shown below.*



The Existing Ground Line dialog box contains the following fields and controls:

- ☒ Lv Names: X_E_Ground_XS
- ☐ Lv Numbers:
- ☒ Colors: ByLevel
- ☒ Styles: ByLevel
- ☒ Weights: ByLevel
- Match
- Display
- Reset

Figure 10.5-7: Additional Distance

7. Set the Proposed Finished Grade symbology the same as the Clearing Report. Set the symbology of the Candidate Seeding Elements to include the slopes that will be seeded (typically the cut, fill, and ditch foreslope).

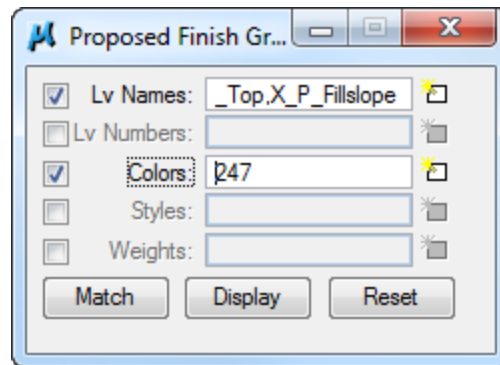


Figure 10.5-8: Candidate Elements Symbology

8. Set the Max Allowable Slope. This can vary on each project, but for preliminary quantity calculations, use 1V:2H.

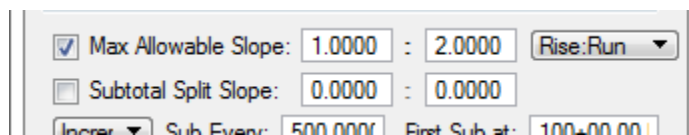


Figure 10.5-9: Max Allowable Slope

9. Select the Additional Distance button.

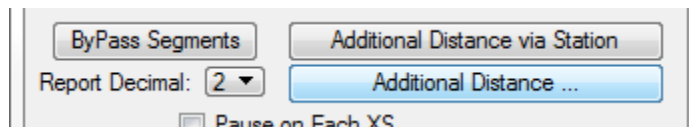


Figure 10.5-10: Additional Distance

10. Fill in the appropriate values. They should be the same as the Cut Slope Rounding and Additional clearing in fill values used in the Clearing Report. Select OK.

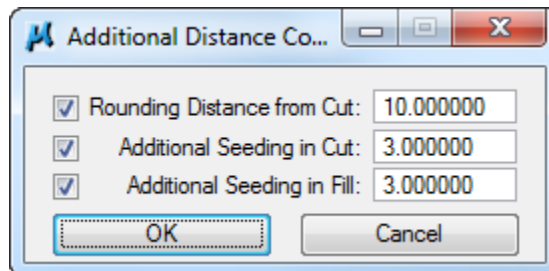


Figure 10.5-11: Additional Distance

11. Type in the output filename for the Seeding Report and then select **Apply**.

Seeding Report

Job: 123 Current Station: 100+00.00 R 1

Chain: MAIN

Begin Station: 100+00.00 R 1 100+00.00 R 1

End Station: 116+00.00 R 1 116+00.00 R 1

Search Criteria

Existing Ground Line: Display

Proposed Finish Grade: Display

Candidate Seeding Elements: Display

☒ Max Allowable Slope: 1.0000 : 2.0000 Rise:Run

☐ Subtotal Split Slope: 0.0000 : 0.0000

Increr Sub Every: 500.000 First Sub at: 100+00.00

Scale Factor: 1.00000 Label: SF

ByPass Segments Additional Distance via Station

Report Decimal: 2 Additional Distance ...

☐ Pause on Each XS

ASCII File: C:\sampleproject\Roadway\GEOPAK\seedir

Apply

Figure 10.5-12: Seeding Report Dialog



12. The following report will be created:

08/31/2015

Project Number
Road Name
SEEDING REPORT

Page# 1

NUMBER OF LEFT CUT SLOPES TO BE BYPASSED = 0
 NUMBER OF LEFT FILL SLOPES TO BE BYPASSED = 0
 NUMBER OF RIGHT CUT SLOPES TO BE BYPASSED = 0
 NUMBER OF RIGHT FILL SLOPES TO BE BYPASSED = 0
 ROUNDING DISTANCE FROM CUT SLOPE STAKE = 10.00 Ft
 MAXIMUM ALLOWABLE SLOPE FOR SEEDING/SODDING 1.0000 / 2.0000 Rise over Run
 ADDITIONAL SEEDING LEFT SIDE = 0.00 Ft
 ADDITIONAL SEEDING RIGHT SIDE = 0.00 Ft
 ADDITIONAL SEEDING IN CUT = 3.00 Ft
 ADDITIONAL SEEDING IN FILL = 3.00 Ft
 SUBTOTALS EVERY 500.0000 Ft BEGINNING AT STATION 100+00.00 R 1 METHOD INCR
 SCALING FACTOR = 1.00000 WITH LABEL [SF]

STATION	SLOPE DISTANCE		AVERAGE SLOPE DIST		A R E A		SF BOTH	SUBTOTAL LT	A R E A		SF BOTH
	LT	RT	LT	RT	LT	RT			LT	RT	
100+50.00 R 1	30.70	22.24						0			0
	(52.94)		20.69	17.27	1035	864	1899				
101+00.00 R 1	10.68	12.29									
	(22.97)		6.84	10.75	342	537	879				
101+50.00 R 1	3.00	9.20									
	(12.20)		3.00	12.49	150	624	774				
102+00.00 R 1	3.00	15.78									
	(18.78)		15.95	24.17	798	1209	2007				
102+50.00 R 1	28.90	32.56									
	(61.46)		15.95	32.06	797	1603	2400				
103+00.00 R 1	3.00	31.56									
	(34.56)		3.00	26.96	150	1348	1498				
103+50.00 R 1	3.00	22.35									
	(25.35)		3.00	18.18	150	909	1059				
104+00.00 R 1	3.00	14.00									
	(17.00)		3.00	18.91	150	946	1096				
104+50.00 R 1	3.00	23.82									
	(26.82)		6.60	27.32	330	1366	1696				
105+00.00 R 1	10.19	30.82									
	(41.01)		14.06	21.65	703	1083	1786				
105+50.00 R 1	17.92	12.47						4605	10489		15091
	(30.39)		28.13	22.67	1407	1134	2541				
106+00.00 R 1	38.34	32.87						1407	1134		2540
	(71.21)										
TOTAL	LEFT	RIGHT			BOTH						
SF=	6012.0000	11623.0000			17631.0000						
ACRES=	0.1380	0.2668			0.4048						

Figure 10.5-13: Seeding Report Output