
From: Pickering, John

Sent: Friday, December 27, 2002 3:34 PM

To: Boggan, Adam; Forgey, Billy; McCollum, Danny; James, Billy; Breland, Carol; Waldon, Greg; Robinson, Charlie; Williams, Greg; Roberts, Boobie; Reinike, Chet; Gilliam, Rocky; Brown, Denise; Sutterfield, Russell; Dover, Terrie

Cc: Reese, John; Pittman, Richard; Fletcher, Brad; Whitfield, Robert; Mood, Amy; Seal, David; Purvis, Keith; Reeves, Steve; Spell, Steve; Portera, Joy; Lewis, Brad; Boteler, Keith

Subject: Design Cross-Section SOE files - InHouse Designers

Importance: High

Beginning January 1, 2003 Roadway Design Division's Designers shall produce and make available ASCII files containing Station, Offset, Elevation (SOE) of each break point of the Design Subgrade Cross-Sections for all projects that have over 200,000 CY of Total Earthwork. This is being done at the request of Construction Division to aid the Project Offices in their Final Earthwork calculations.

These files are due at the time 2nd Order Plans are due and details of producing these files are listed below.

1. For projects whose Total Earthwork Volume is greater than 200,000 CY, SOE files will be generated for the Mainline, Interchange Ramps, Loops, Major Crossroads, etc. (The roads that contain the major earthwork for a project). SOE files will not be generated for Local Roads unless a major amount of earthwork is involved for a particular Local Road.
2. The format for these SOE files is GeoPak's .GEN format which is shown below and is generated by GeoPak's MULTI Cross-Section Report application as stated in the recently revised XS APPS chapter of the GeoPak User's Guide.

.GEN Format

GROUND MULTILINE DATA LINE TYPE *

XS 245+00.000 R 1 -62.70 232.94 -42.00 238.12 -29.14 240.26 -14.00 240.56 -12.00 240.60
0.00 240.84 12.00 240.60 14.00 240.56 28.27 240.28 43.00 237.82 45.42 238.63
XS 246+00.000 R 1 etc.

DESIGN SUBGRADE

3. The file(s) will be placed in a sub-directory (named \FinalSOE) of the Project Directory.
4. The filename will be XSroute-des.gen or XSroute-des.soe (i.e. xs471-des.gen)
5. If revisions are made to the Cross-Sections after these files have been created, new SOE files will have to be generated and the filename of these will include the revision date (Xsroute-des-date.gen). Original or revised files do not need to be replaced.
6. If Select Fill is present, SOE files need to be generated for this surface also. The filename of these will be XSroute-des1.gen or Xsroute-des1.dgn.

XS 245+00.000 R 1 -47.54 236.73 0.00 237.84 43.00 236.82 44.50 238.32

If you have any questions, please contact Keith Boteler (359-7290).

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