Preliminary Survey Deliverables Punch List

GEO file:
Open Roads Designer 2d file – contains all alignment chains
Each alignment chain exported as LandXML version 2.0 and stored in SAP folder
Mainline alignment chain to be named SURMLA(RRR) ex., SURMLA003 for IA 3
Second state or federal alignment chain named SURMLB(RRR) ex., SURMLB218 for US 218
Side road alignment chains to be named SURSR(road or route name) ex., SURSR210 for 210th St.
SURSRB35 for County route B-35
Detach all references from this file at final turn in.

Survey Index file:
Follow template of index seed file, rename the seed file I-CCRRRPPP to match project ex., I-57151131

SHT file:
Open Roads Designer 2d file
Surveyed Utility Owners Legend—use cells to the bottom left for this legend
Completed Survey Index file copy-pasted into first sheet
Control Points vicinity map copied into second sheet—the image used for referencing and copying needs to be in the SAP folder
Control Points table copy-pasted into third sheet. Note: report coordinates to the nearest 0.01 foot
Detach all references from this file at final turn in.

SUR file:
Open Roads Designer 3d file – contains all field topo files, extracted linework files from lidar or phodar
Also contains all survey text notes and approximate section lines
After final editing, trim terrain boundary tightly to existing data. Name the terrain boundary to match
TRN file (TRN_PS_CCRRRPPPZ##) ex., TRN_PS_57151131Z10
Export the terrain as a Geopak .tin file or LandXML file and place in the SAP folder
Detach all references from this file at final turn in.

TRN file:
Open Roads Designer 3d file – import file created above.
If the project is a Full DTM survey, the terrain boundary feature definition should be set to TRN_EX.
If the project is a Partial DTM survey, the terrain boundary feature definition should be set to TRN_SUR.
On import, select import terrain only.

UTL file:
Open Roads Designer 2d file – contains all utility line work, utility features and 3d cells for pipes and box culverts. See instructions on creating 3d structures in the 2d UTL file. Detach all references from this file at final turn in.

Utility report:
Follow seed file template to create final report. Place final word document in the UtilityInfo folder under the SAP folder. Create a .pdf of same document and place in the SAP folder

SAP sub-folder documentation

As-Built Plans: place as-built grade and pave plans and structures plans used to verify elevations and alignment retracements

Control: place unedited raw, QC and .txt files in the appropriate sub-folders. If the RTN is used to establish control using previously determined instructions, an independent RTN control validation is required along with base and rover control checks. Place the final ControlPoints.txt file with full descriptions in the Control folder.

Drainage Structures: Open the access data base file and create a new project with the project information provided. Document all roadway pipes and box culvert information. Entrance pipes and storm sewer system pipes are not required.

Edited Survey Files: place all edited .txt files for the project in this folder

From Office and email: place all documents and email correspondence from the Surveys office in these folders

Photo Control: the photo control .pdf should be stored here. The final edited .txt file for the photo control points and DTM points should be placed here. Images of the photo control points, as occupied, should be stored in the PCP Images subfolder.

Project Images: store all pictures of drainage structures and other pertinent site observations here. The images stored here should be named appropriately to effectively place images in the pink sheet database files.

Remote Sensing: store Microstation 3d .dgn file here for use as a key to tiled .las or .pod files here.
        -LAS subfolder: store RGB ground and intensity classified .las files in this folder.
        -POD subfolder: store RGB ground and intensity classified .pod files in this folder.
        Note: both types of files outlined above are required as part of final delivery.

Survey Limits: the project survey limits file in .kmz format should be stored here. If it is not, request a copy of it to be placed here.

Unedited Survey Files: the raw, QA/QC and .txt files are to be stored here in the respective subfolders. These files represent the daily field work collected by the survey party and are part of final project documentation that is required as part of the final project delivery.

Utility Info: create subfolders for design information request tickets, design locate request tickets and for each utility owner identified. Place all email correspondence and mapping information received in the appropriate subfolders created.