

SS4 Survey To Open Roads Survey

Design

SS4 Survey To Open Roads Survey

Processes

1. Field Survey
2. Aerial Lidar and Mobile Scan

Design

SS4 Survey To Open Roads Survey

Field Survey

1. Field Procedures
2. Setup
3. Downloading
4. Editing
5. Final Files
6. Legacy Projects

Design

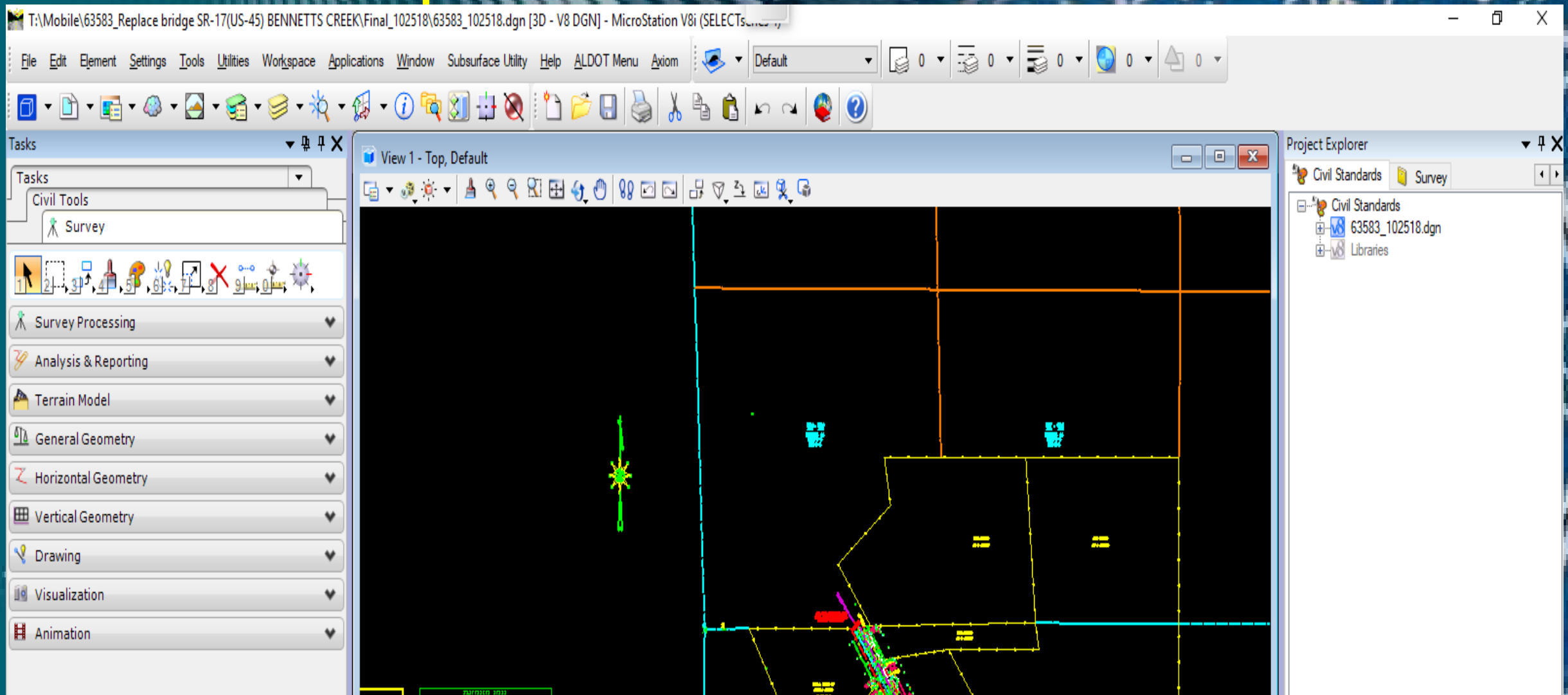
SS4 Survey To Open Roads Survey

Field Survey

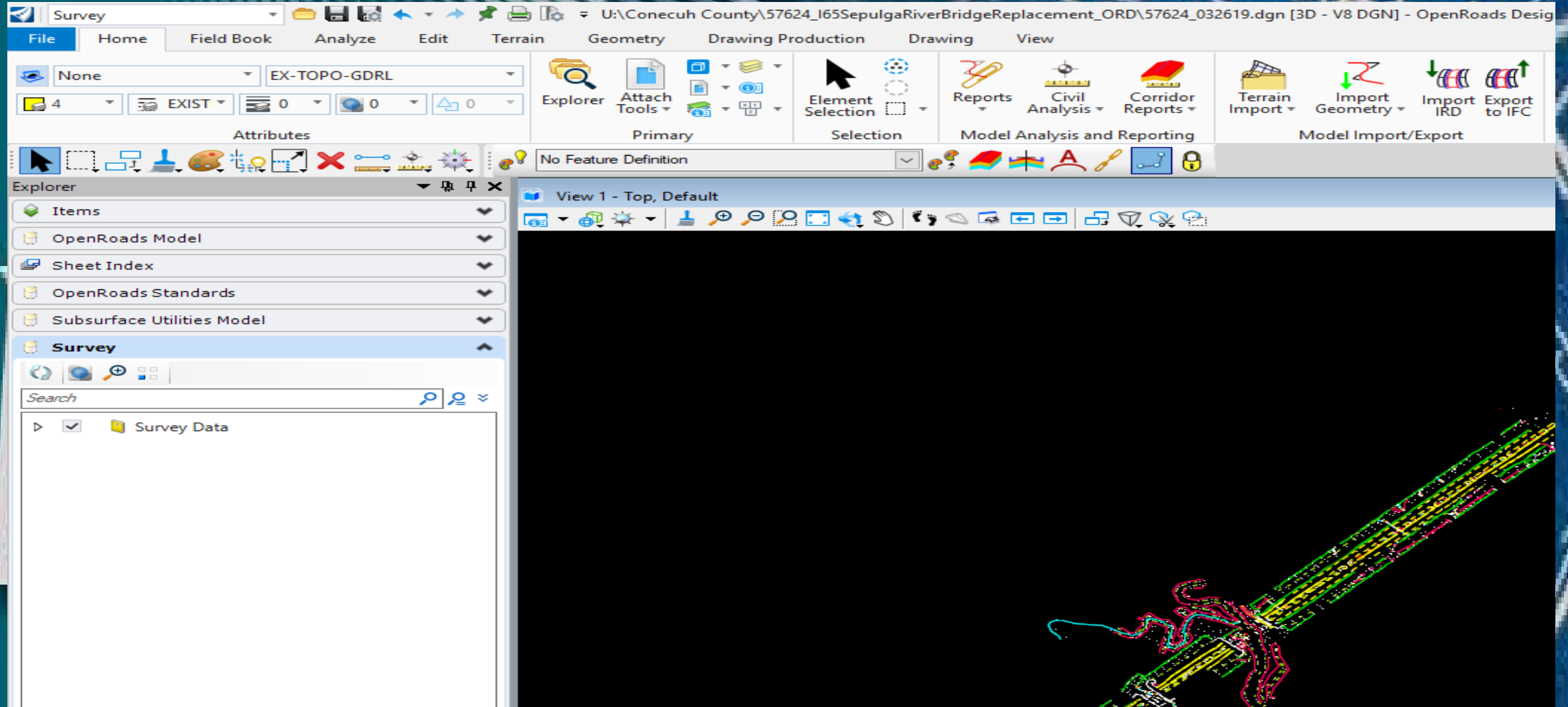
- Field collection changed 3 years ago when we started using SS4 for our CADD program.
- Biggest change with that was the point codes used were doubled.
- Fear of change

Design

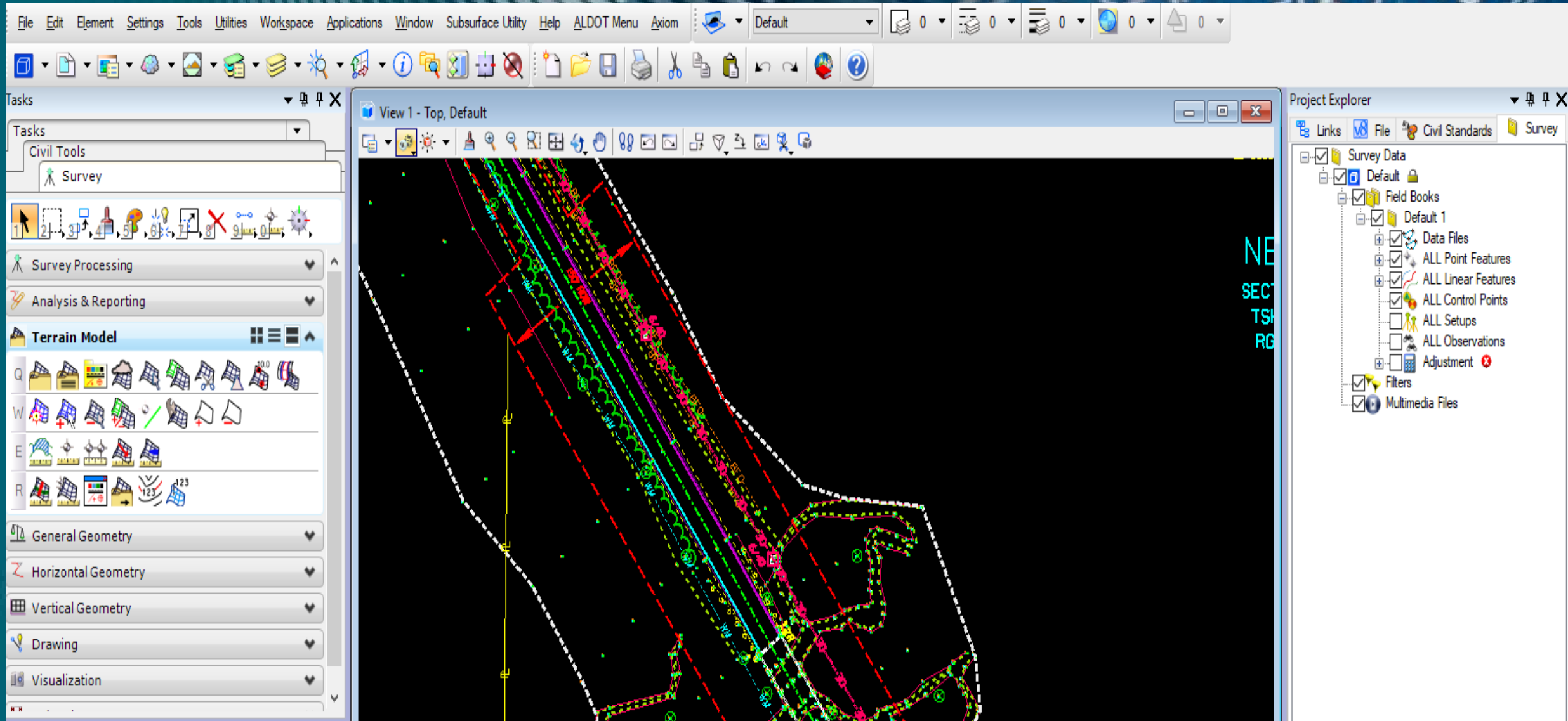
Setup for SS4



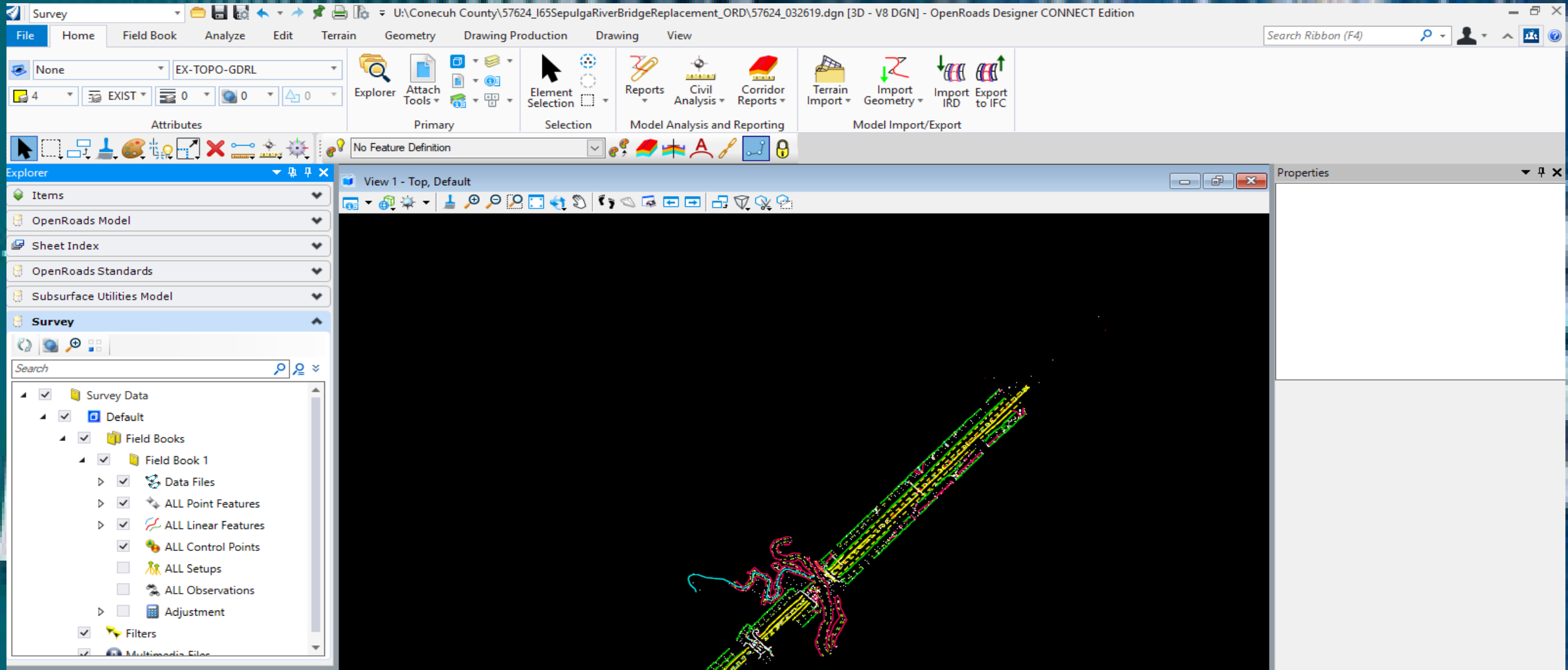
Setup for Open Roads



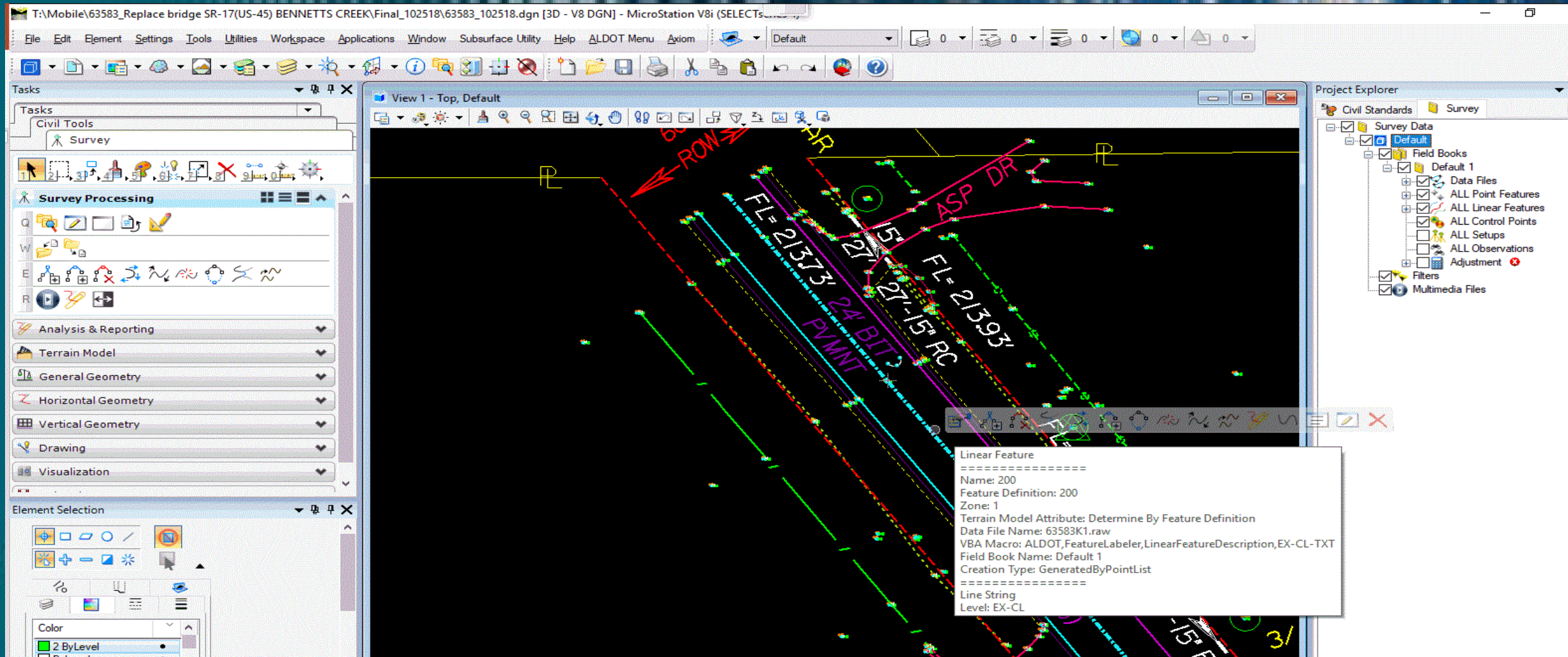
Downloading for SS4



Downloading for Open Roads



Editing for SS4



Editing for Open Roads

The screenshot displays the OpenRoads Designer CONNECT Edition software interface. The main window shows a top-down view of a road design project. The interface includes a ribbon with tabs for File, Home, Field Book, Analyze, Edit, Terrain, Geometry, Drawing Production, Drawing, and View. The Edit tab is active, showing various editing tools like Break, Close, Join, Move, Transpose, Transform, Append, Move Along, Insert Point, Delete Point, Move, Copy, Rotate, Modify Element, Break Element, Trim Multiple, and Manipulate. The Explorer panel on the left shows the project structure, including Survey Data, Default, Field Books, and Survey. The Properties panel on the right shows the details of the selected element, EXLIS 19, including its General and Linear Feature properties. A detailed view of the linear feature is shown in the center, with a tooltip providing additional information.

Survey U:\Conecuh County\57624_I65SepulgaRiverBridgeReplacement_ORD\57624_032619.dgn [3D - V8 DGN] - OpenRoads Designer CONNECT Edition

File **Home** **Field Book** **Analyze** **Edit** **Terrain** **Geometry** **Drawing Production** **Drawing** **View**

Explorer

- Items
- OpenRoads Model
- Sheet Index
- OpenRoads Standards
- Subsurface Utilities Model
- Survey**
 - Survey Data
 - Default
 - Field Books
 - Field Book 1
 - Data Files
 - ALL Point Features
 - ALL Linear Features
 - ALL Control Points
 - ALL Setups
 - ALL Observations
 - Adjustment
 - Filters
 - Multimedia Files

Properties

Elements (1)

- EXLIS 19

General

Element Descrip	Line String
Level	EX-SHLD-UNPVD
Color	4
Line Style	2
Weight	0
Class	Primary
Template	Plan\Lines\Existing Shld
Transparency	0

Linear Feature

Name	EXLIS 19
Display	True
Field Code	291
Zone	1
Description	
Terrain Model At	Determine By Feature Def
Attributes Pair	
Length	1098.31'
Data File Name	57624V2.rw5
VBA Macro	ALDOT.FeatureLabeler.Li
Field Book Name	Field Book 1
Feature Definitio	Survey\EX GRADED SHL
Feature Descript	Existing Lt Inside Shoulde
Creation Type	GeneratedByPointList
Media File	
Time Stamp	N/A

Linear Feature

=====

Name: EXLIS 19

Field Code: 291

Zone: 1

Terrain Model Attribute: Break Line

Data File Name: 57624V2.rw5

VBA Macro: ALDOT.FeatureLabeler.LinearFeatureDescription,EX-SHLD-TXT

Field Book Name: Field Book 1

Feature Definition: Survey\EX GRADED SHLDS\Existing LIS

Feature Description: Existing Lt Inside Shoulder Feature Breakline

Creation Type: GeneratedByPointList

=====

Line String

Level: EX-SHLD-UNPVD

Preparing Final Files for SS4 and ORD



Preparing Final Files For SS4 and ORD



So what's the difference?

- Field survey is collected the same way
- Setup, downloading, editing are all the same.
- Final Product
 1. Editing the terrain
 2. SS4 a .DTM file is exported
 3. ORD the DTM is saved as a .DGN

Design

Legacy Projects

Design

- What do we do with old data?
- Terramodel
 - Graphics file
 - Land XML
- SS4
- Geometry

Legacy Projects SS4 to ORD



Legacy Projects



Lidar and Mobile Scan Files

Design

- SS4 is a 32-bit program
- ORD is a 64-bit program
- Lidar and mobile scan extractions started using MicroStation Connect about a year and a half ago which is ORD's platform.
- Currently work is performed in Connect and then exported and loaded in InRoads.

Lidar and Mobile Scan Files

