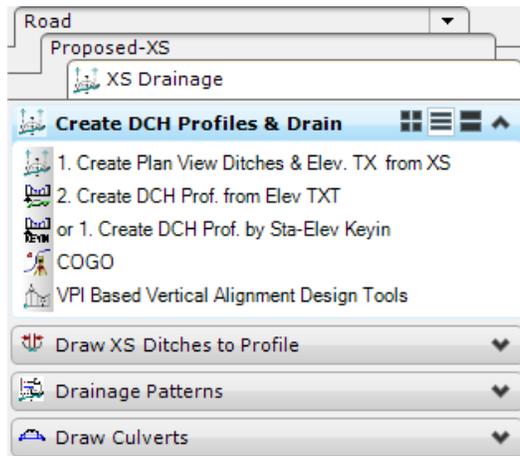


XS - Create Ditch Profiles & Drain (7-1-2012)



Overview:

You have a couple of options on the menu to actually create the profiles.

OPTION A

1. Create Plan View Ditches & Elev. TX from XS
2. Create DCH Profiles from Plan View Elev. Txt

Or

OPTION B

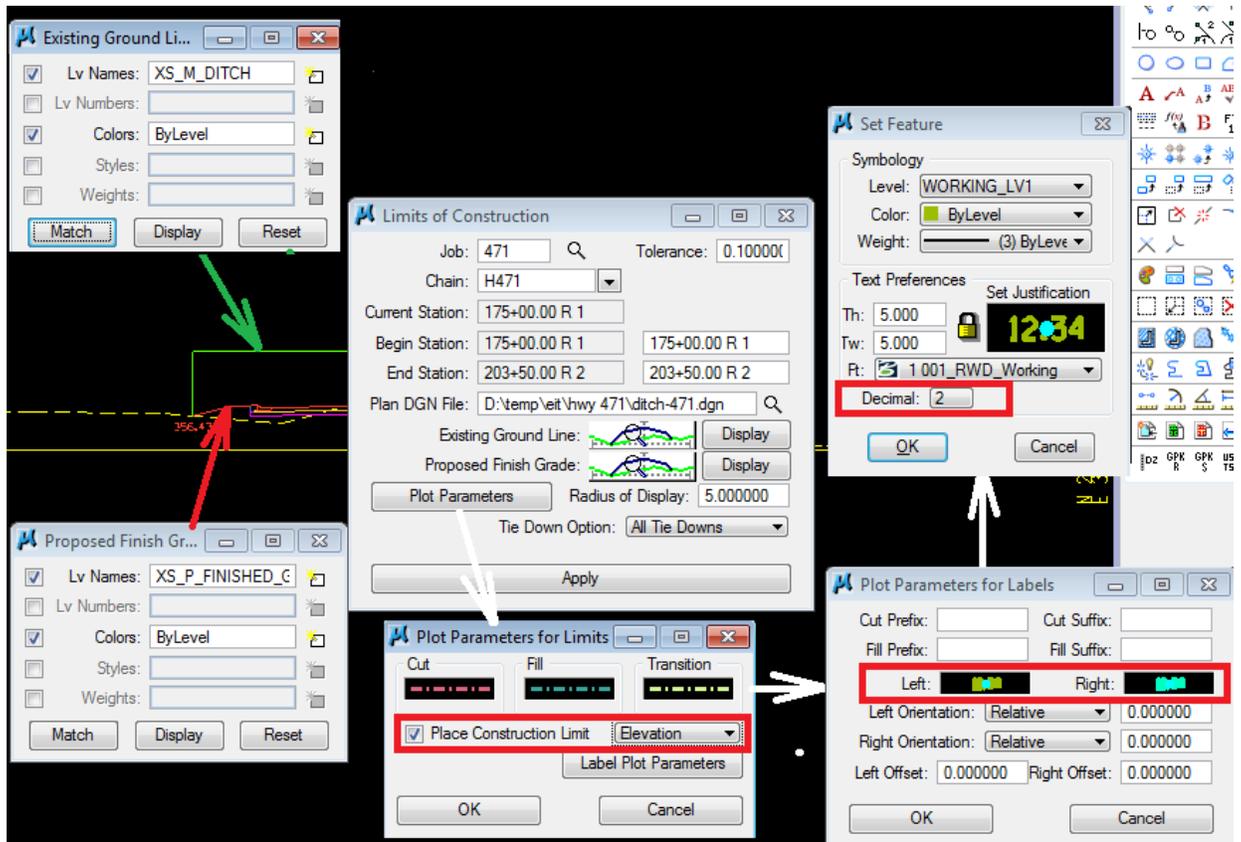
1. Create DCH Profile by Sta./EL. Keyin

Option A Steps are provided below. Both these options create the profile input files which you'll load in COGO to create (You'll need to add equations) prior to reading the input file. After that, you'll open the VPI Based Vertical Alignment Tool to load each profile and drain to outlets.

You can then move on to "Draw XS Ditches to Profile" which will actually draw new ditches & clean up your proposed x-sections (Remove old ditches). In areas where the profile is not changed, proposed x-sections will remain unchanged.

Step 1. (1. Create Plan View Ditches & Elev. TX from XS)

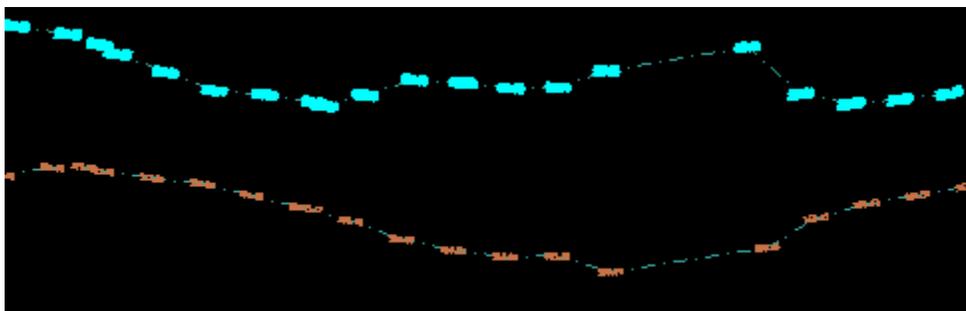
Create Ditch Profiles for all ditches of a set of X-Sections. This command invokes the Limits of Construction dialog which you'll set up as shown below.



Once ran, it'll create the location of the ditches in the plan view and also place elevation text which you need for the next step.

Step 2. (2. Create DCH Profiles from Plan View Elev. Txt)

- a) Open the DGN created in Step 1.
- b) Select the Plan View Elevation Text for 1 ditch (i.e. Left Ditch).



c) Kick off the command (2. Create DCH Profiles from Plan View Elev. Txt)

This will generate a profile input file of the left ditch (pp471-dl471.ikb)

d) Repeat b & c for your Right Ditch.

Step 3. Creating profiles in COGO

a) Open COGO

b) Load xp471-dl

c) If you have equations, tag Edit -> Editor and add equations between appropriate VPI's.

Example: EQN BK 199+15.769 AH 199+16.000

d) In the editor, Tag File-> Rest/Read to store the profile.

e) Repeat for the Right ditch.

Step 4. Draining the Profiles

a) Open your profile DGN file.

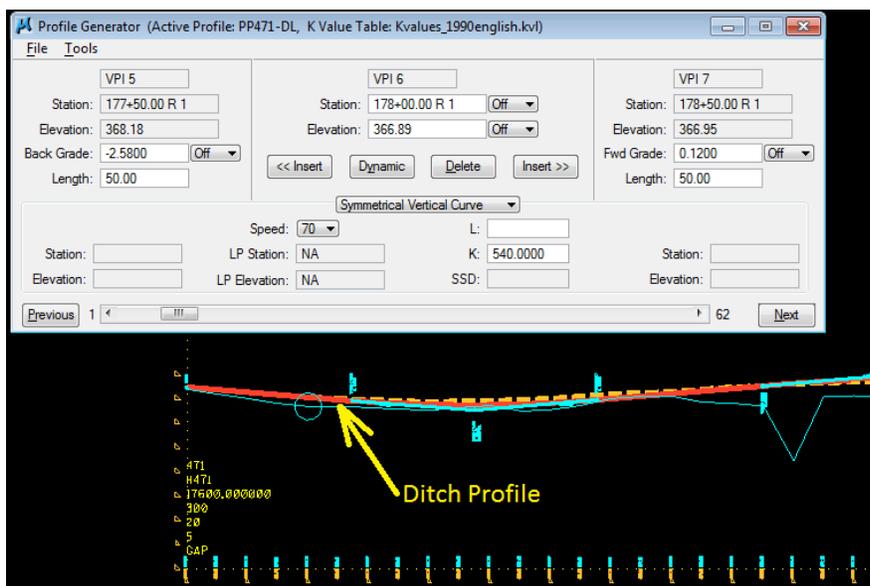
b) Invoke "VPI Based Vertical Alignment Design Tool"

c) ID the profile cell & then Load your ditch profile.

d) Drain the profile.

e) Save the Profile.

f) Repeat for your right ditch.



Step 5. Go to the “DRAW XS DITCHES TO PROFILE” to redraw your ditches based on these modified profiles.

NOTE: You can have multiple profiles of different station ranges for each ditch if needed (i.e. PPDCHL1, PPDCHL2, etc.)