14_35 Station Equations and Properly Defining Existing EOP

I have tried to run this criteria for the x-sect templates with no success. It will draw a full depth template at station 15+00 and some widening templates on some of the prior stations but it won't place the bridge or draw templates after 15+00. The alignment does have an equality but when I try to put region a sin the criteria it won't read it at all. Also I really wanted to use config 1 on the widening template but the slopes were going up in the air. What would cause that?

There are two particular problems with this Criteria run.

Station region improperly defined in Criteria Input.
 Existing EOP define DGN statement improperly defined in Criteria Input.

For this particular TIP Project, a station equality is written in COGO as such:

```
EQUATION:
-L- Sta 15+00.00 BK = -L- Sta 14+86.57 AH
```

This translates to region 1 having stations ranging from the beginning of project station to station 15+00.00. Region 2 will have stations ranging from station 14+86.57 (aame as 15+00.00 region 1) to the end of the project station. Station regions are defined in two areas in a typical Christna input file. Regions are defined in the Beginning and Ending Station statements and in the Side Slope "Where" station statements.

```
Corrected Criteria Input
PATTENN ST STATICK

PATTENN SET

BASELINE - L

HORIZ SCALE - 10

VERT SCALE - 10

VERT SCALE - 10

EEGINING STATICN - 100

ET 100

ET 100

ET 100
                                                                                                                           PATTERN BY STATION
PATTERN SET
DAS NUMBER = K01
BASELINE = 1
HORIZ SCALE = 10
VERT SCALE = 10
ENGINUM STATION = 1500 R 2
EVEN = 50
LT = 100
RT = 100
```

```
Original Criteria Input
  Original riversa input

criteria for shape cluster
shape cluster baseline * L
shape cluster profile * EXL
shape cluster tie * O

SIDE SLOPE LT WHERE (STATION >= 1300) and (STATION <= 1450)

OR (STATION > 1740) and (STATION <= 1900)
include Livabiol.cri
include Livabiol.cri
include Livabiol.cri
include Livabiol.cri
                              SIDE SLOPE BY WHERE (STATION >= 1300) and (STATION <= 1450) on (STATION >= 1740) and (STATION <= 1900) include Livempitol.cri include Livempitol.cri include Livempitol.cri include Livempitol.cri
```

```
Corrected Criteria Input
Corrected Litters maps.

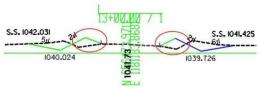
criteria for shape cluster
shape cluster baseline - L
shape cluster the - EL
shape cluster tite - D

GR (STATION > 1740 t 2) and (STATION <= 1450 t 1)

OR (STATION > 1740 t 2) and (STATION <= 1900 r 2)
include Litabilol.cri
include Litabilol.cri
include Litabilol.cri
include Litabilol.cri
                          SIDE SLOPE RT WHERE (STATION >= 1300 r 1) and (STATION <= 1450 r 1) on (STATION >= 1450 r 2) and (STATION <= 1900 r 2) include LivinghidOl.ort include LivinghidOl.ort include LivinghidOl.ort
```

Note that Geopak Criteria will assume a region value of "1" if no region number is assigned after any stationing. However it is *good practice* to specify region 1 whenever possible and especially if more than one region exist

The second problem deals with improper definition of the existing EOP elements. This can cause erratic shoulder and side slopes to be drawn or as mentioned "slopes were going up in the air". Template Configuration 1 is more susceptible to this condition than other Template Configuration.





By correcting these two problems in the Criteria input file, Criteria can now process successfully both regions for the entire length of the project.

