Transposed Score

Structural Integrity

for Chamber Ensemble

(Flute, Clarinet in B♭, Violin, Cello, Piano, Marimba/Sus. Cym.)

Joe Hills

INSTRUMENTATION

Flute
Clarinet in B♭
Violin
Cello
Piano
Marimba/Suspended Cymbal

Duration ca. 5'

Transposed Score

PROGRAM NOTES

Structural Integrity (2013) is based on a sculpture by Bill Smith called *Structure*. The 20-foot tall tower weighs only two ounces and is similar to many natural structures found in our world. Mammals use this hair/cell tower structure to hear and although there are many other applications of this structure in nature, as a musician I am most intrigued by the application to hearing.

The overall shape of *Structural Integrity* reflects that of the damped sine wave that gives Smith's *Structure* its form. The piece begins with a broad base and eventually tapers down to one line; one note. Throughout the composition, there is a constant oscillation in dynamic, line, and color aimed to reflect the oscillation of a sine wave. The similar shapes throughout create a series of interconnected musical modules that seamlessly transition from one to the other.

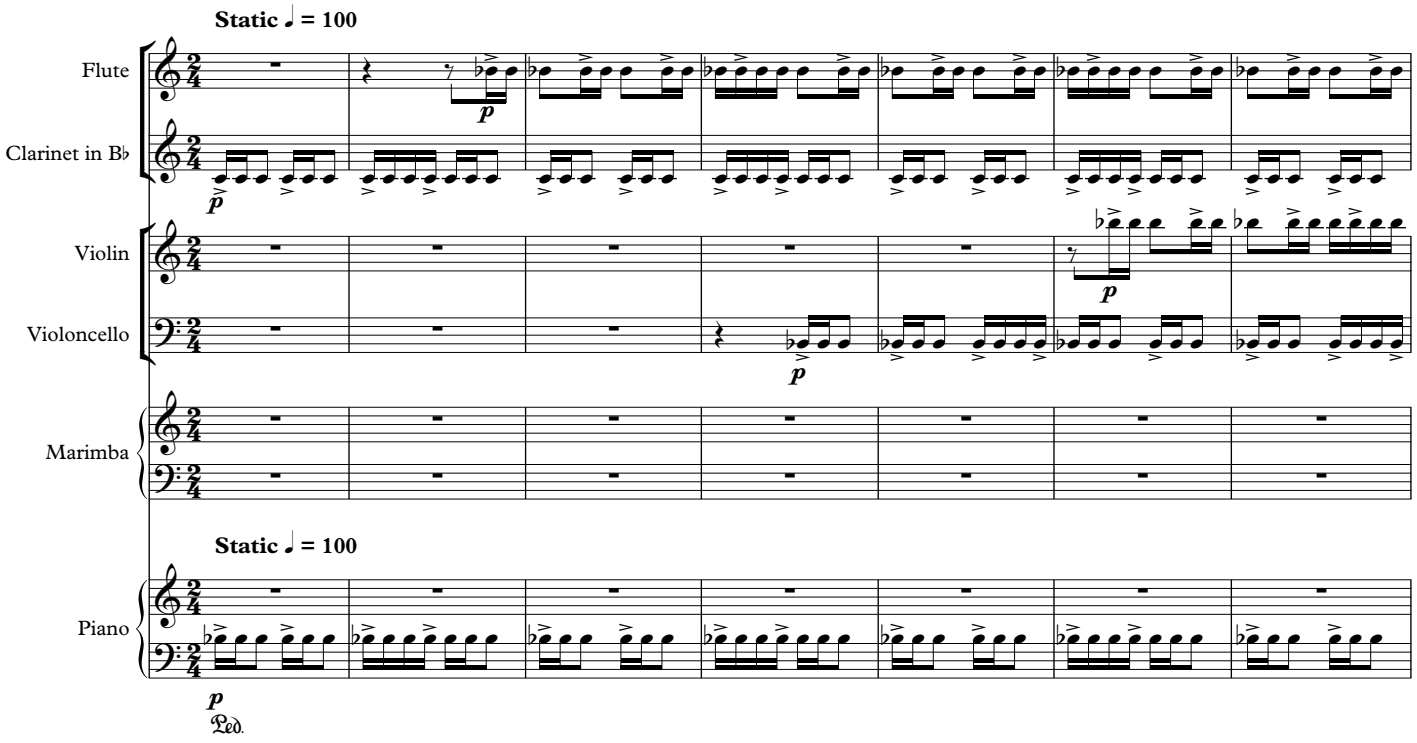
The premier of *Structural Integrity* will take place along side Smith's work in the World Chess Hall of Fame in St. Louis, MO on 4 May 2013.

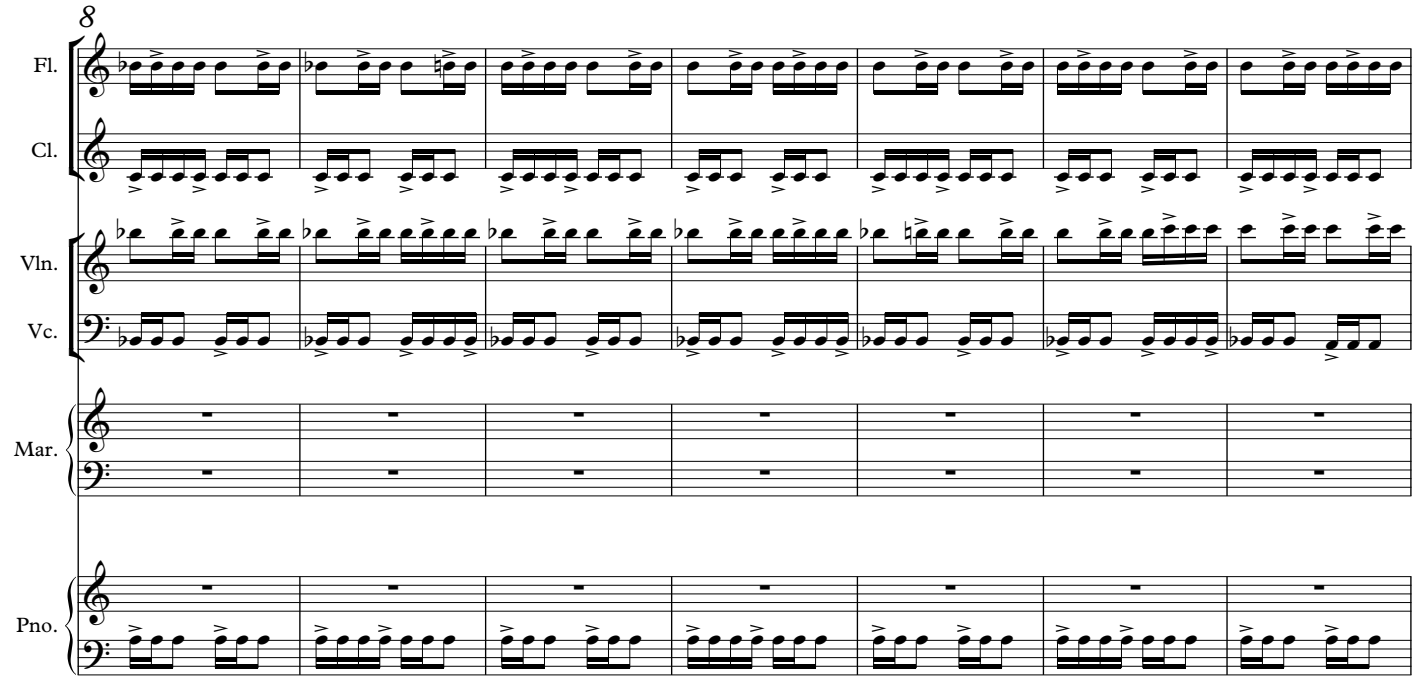
Many thanks to Jeanne Sinquefield and the Sinquefield Charitable Foundation for making this collaboration possible.

based on "Structure" by Bill Smith. Composed for the World Chess Hall of Fame

STRUCTURAL INTEGRITY

Joe Hills (b. 1987)





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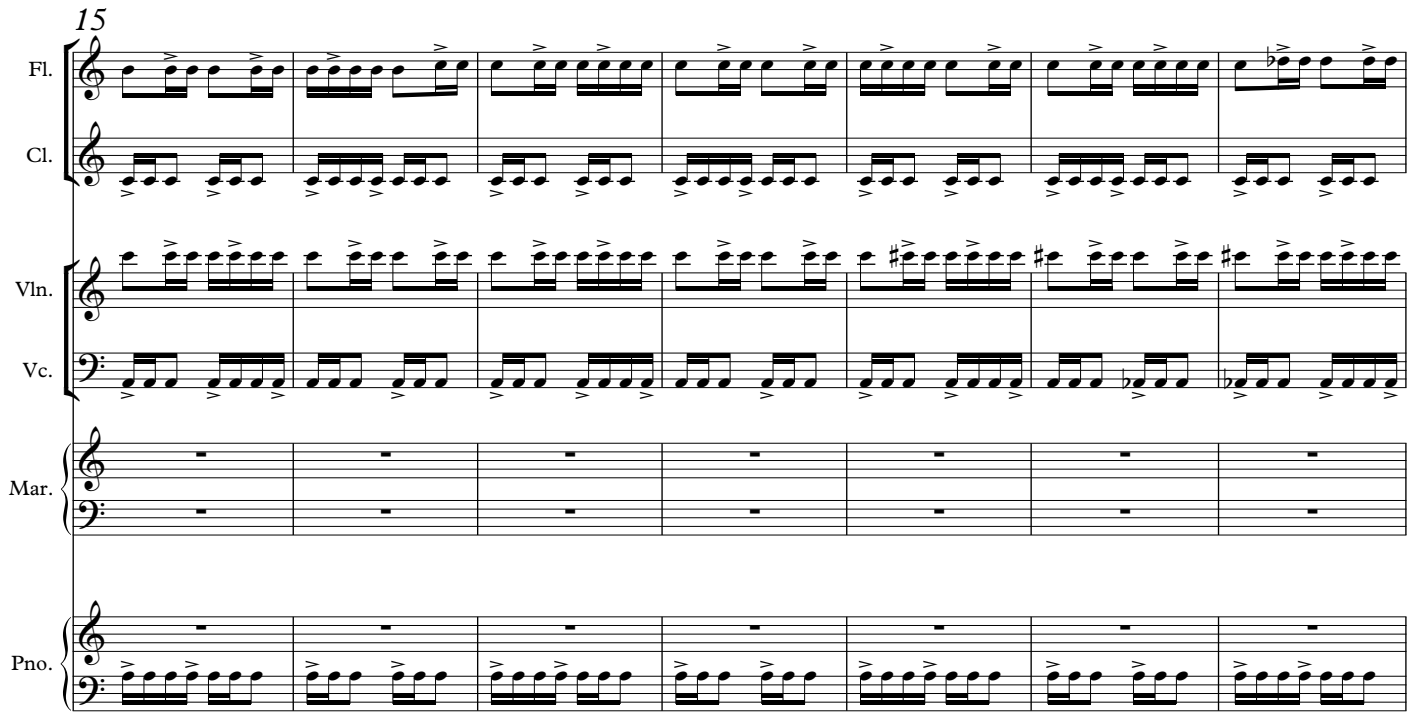
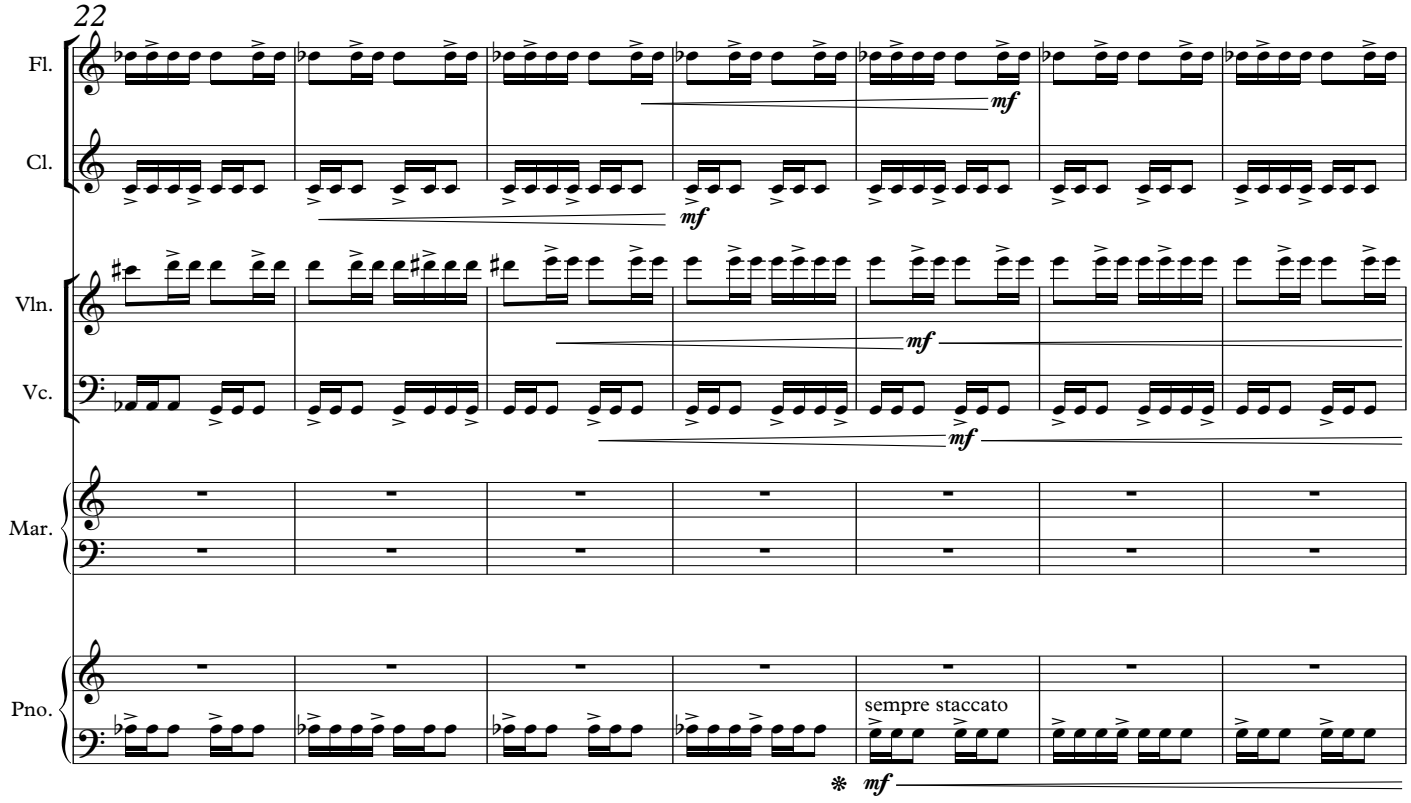
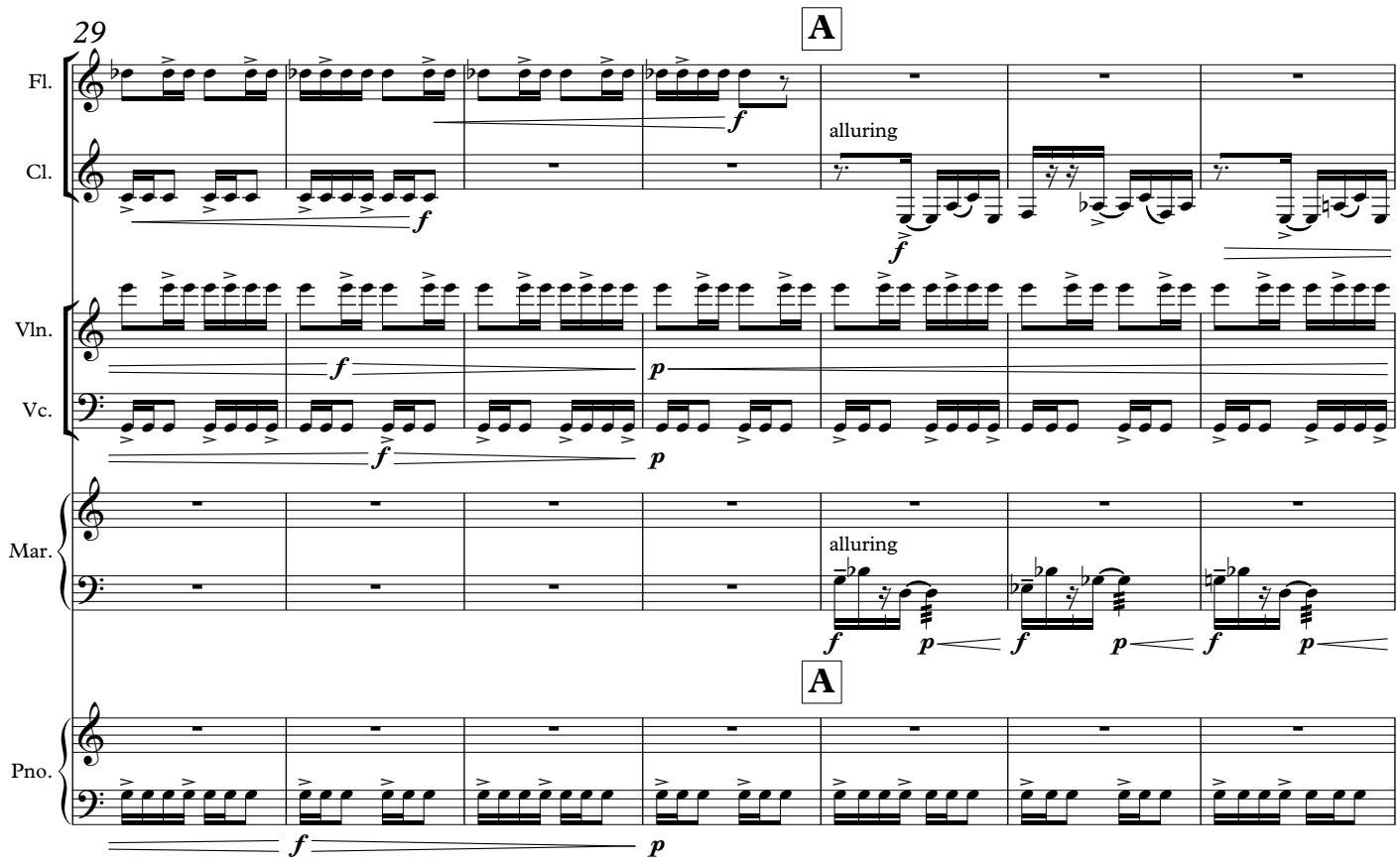
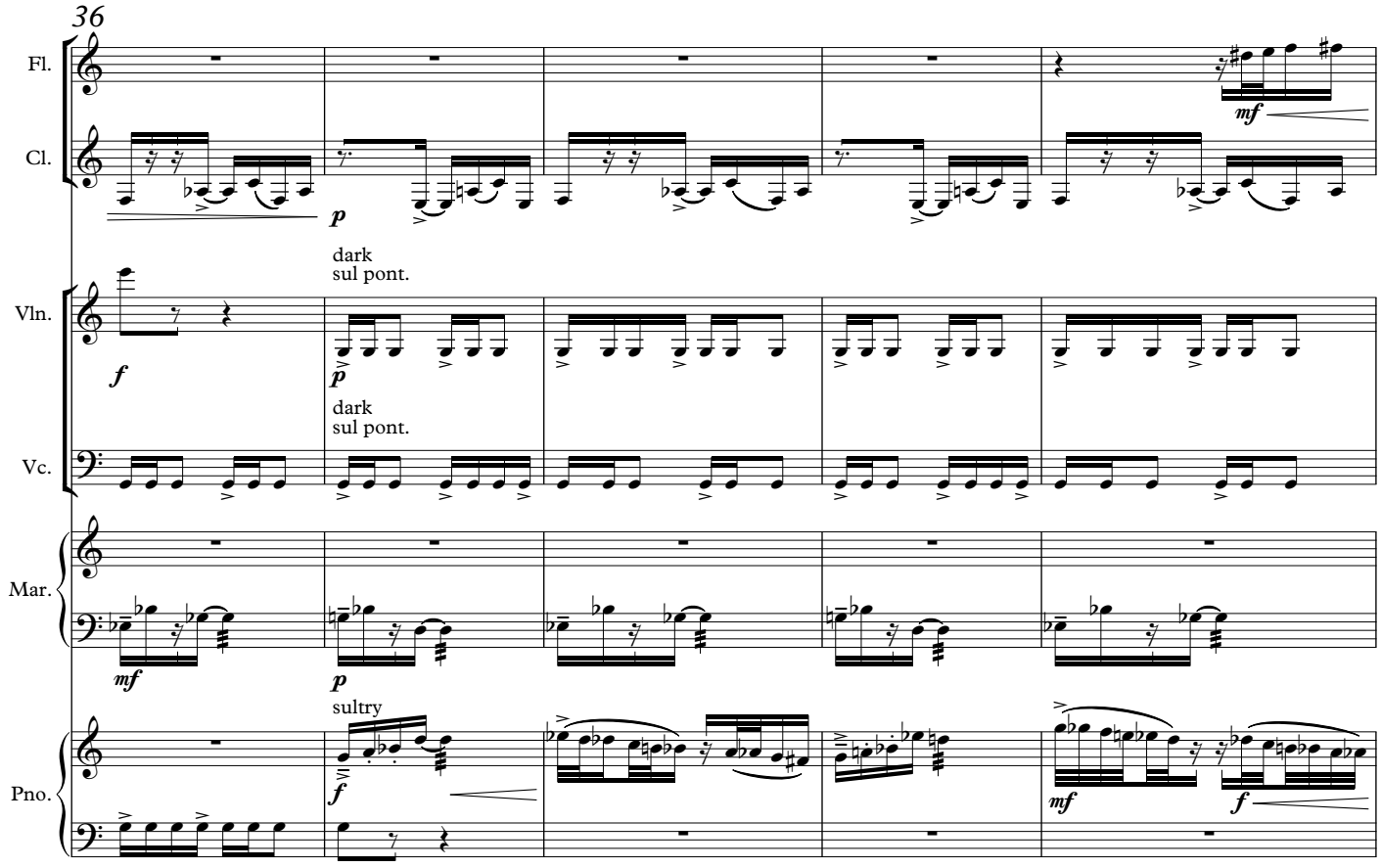
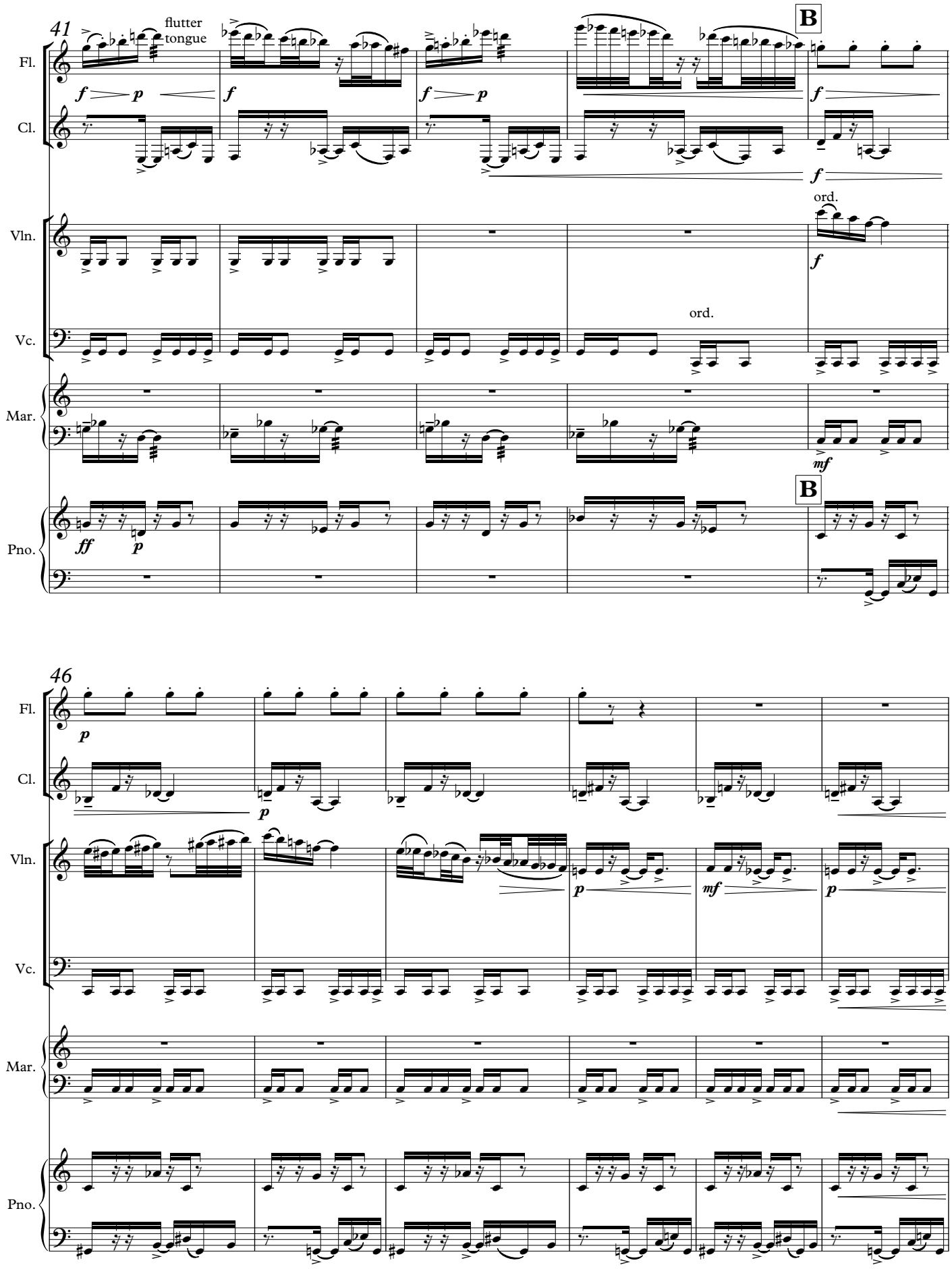
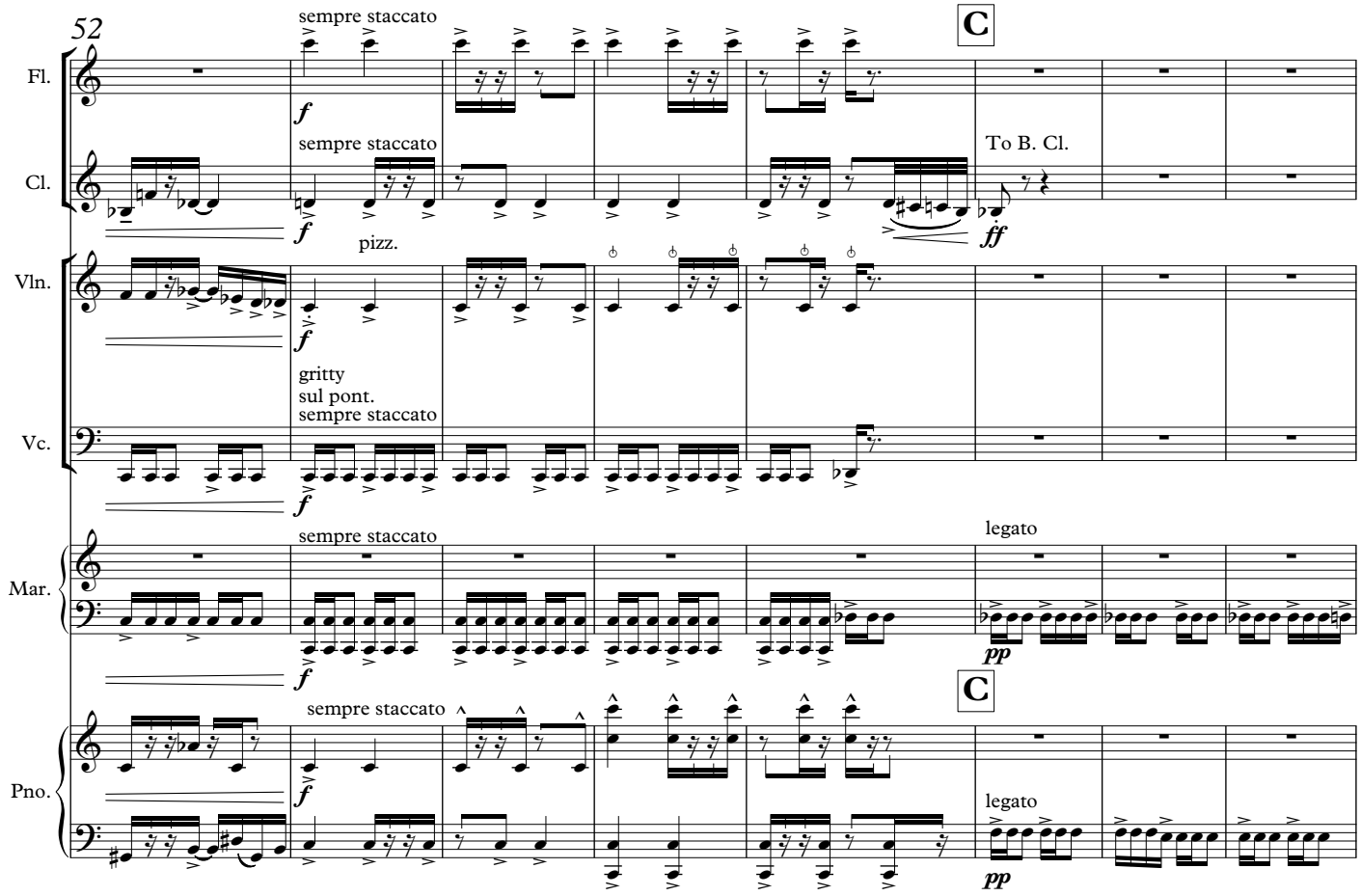

15
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.

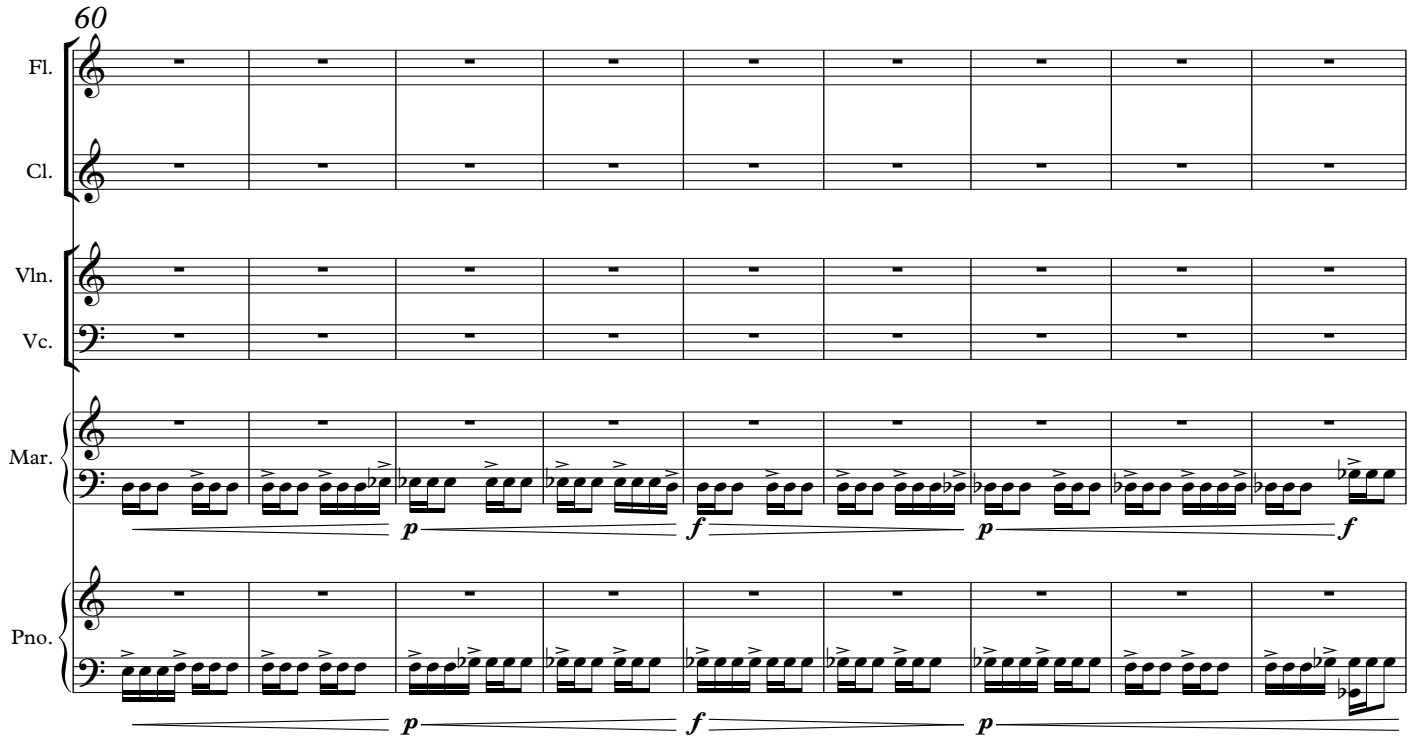

22
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
mf
mf
mf
mf
sempre staccato
mf

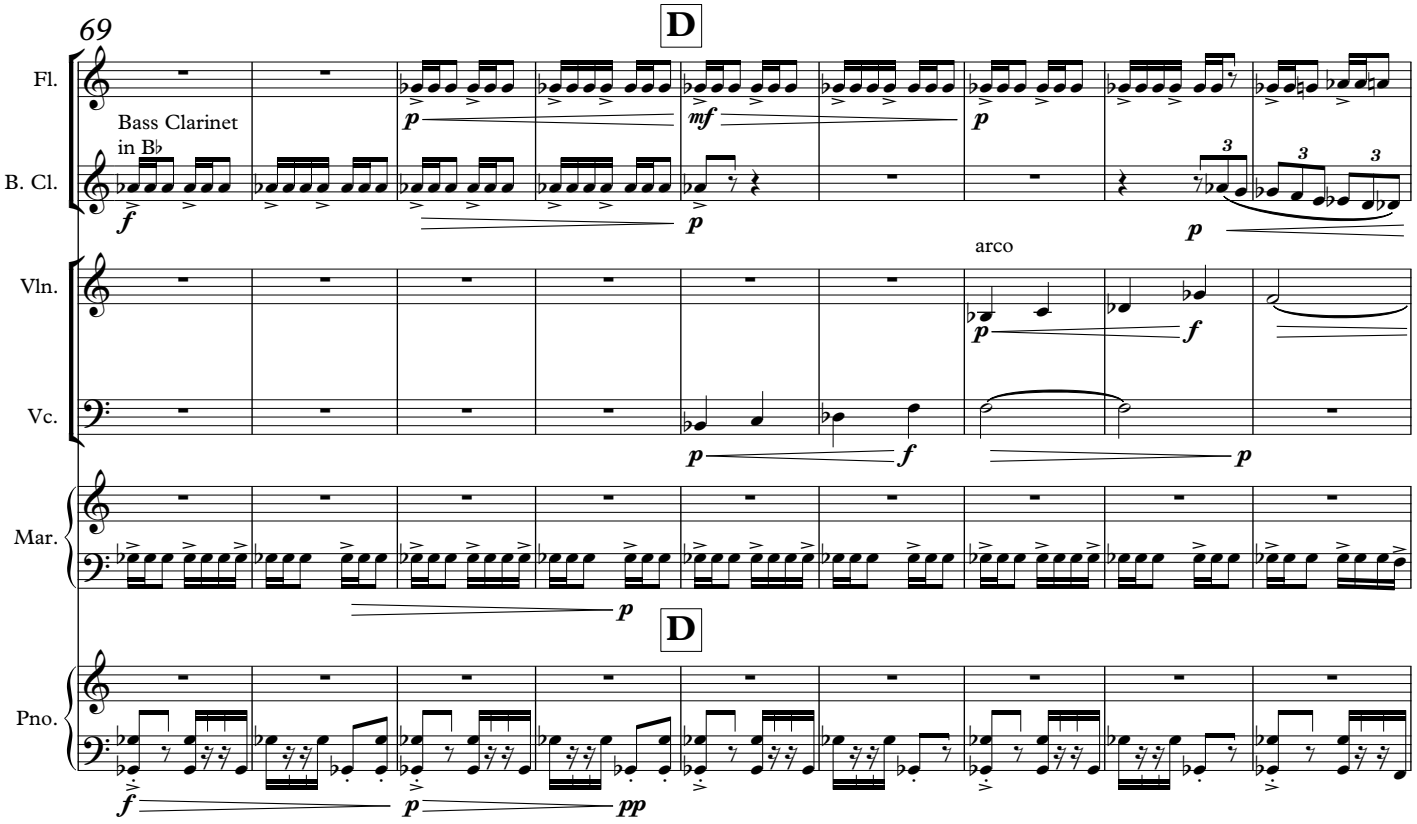

29
A
Fl.
Cl.
alluring
Vln.
Vc.
Mar.
alluring
A
Pno.

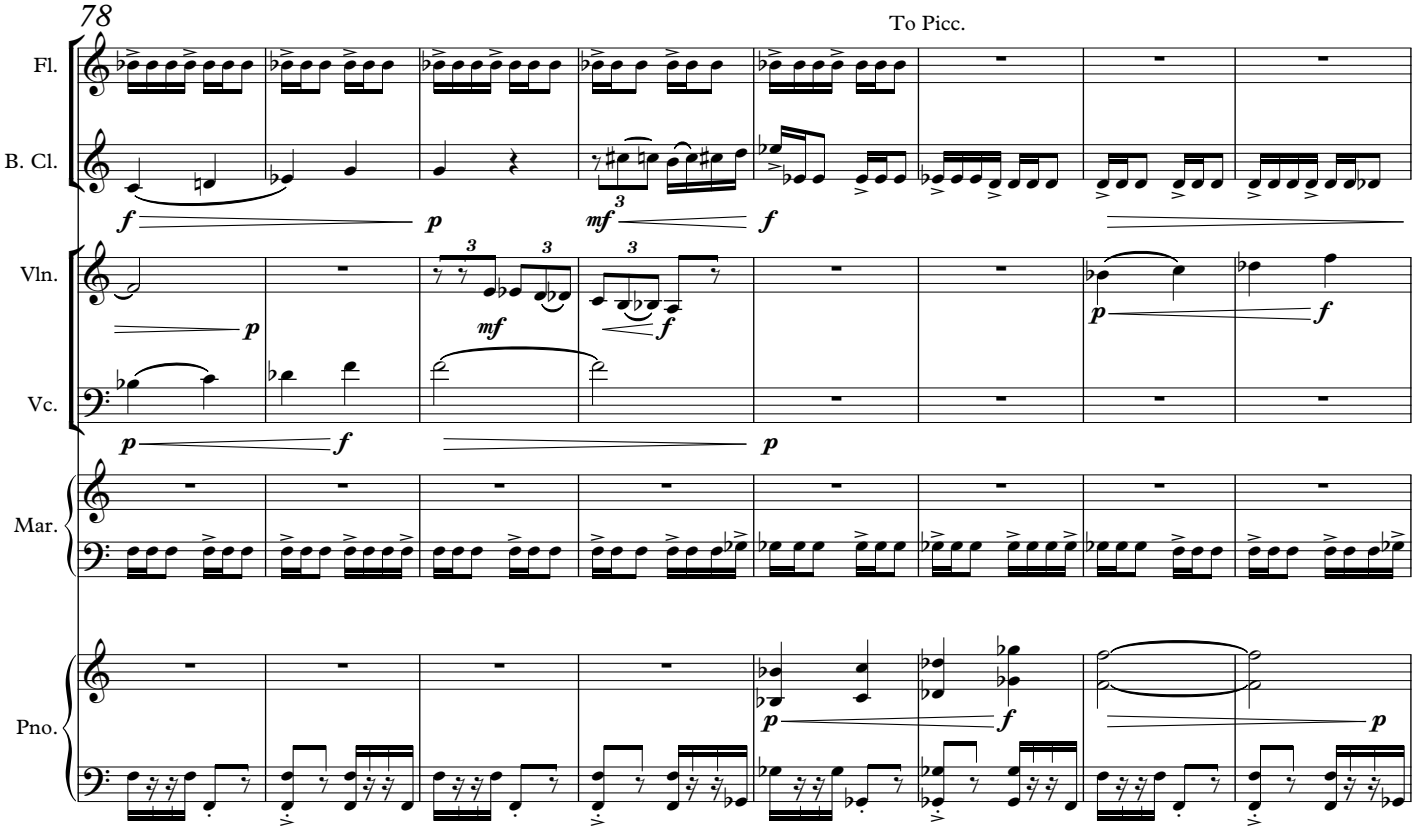

36
Fl.
Cl.
dark
sul pont.
Vln.
dark
sul pont.
Vc.
Mar.
sultry
Pno.

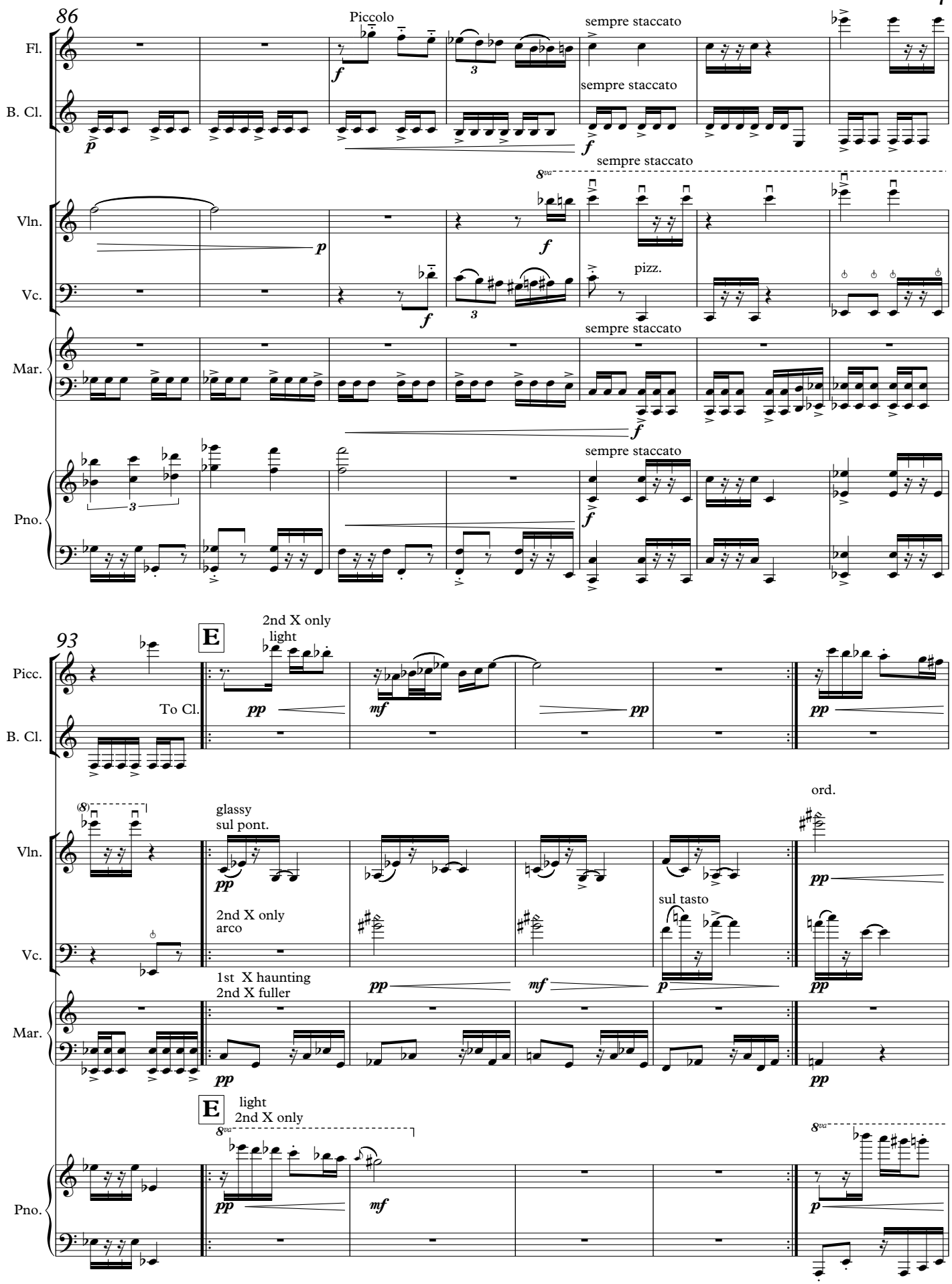

41
flutter tongue
B
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
ord.
ord.
46

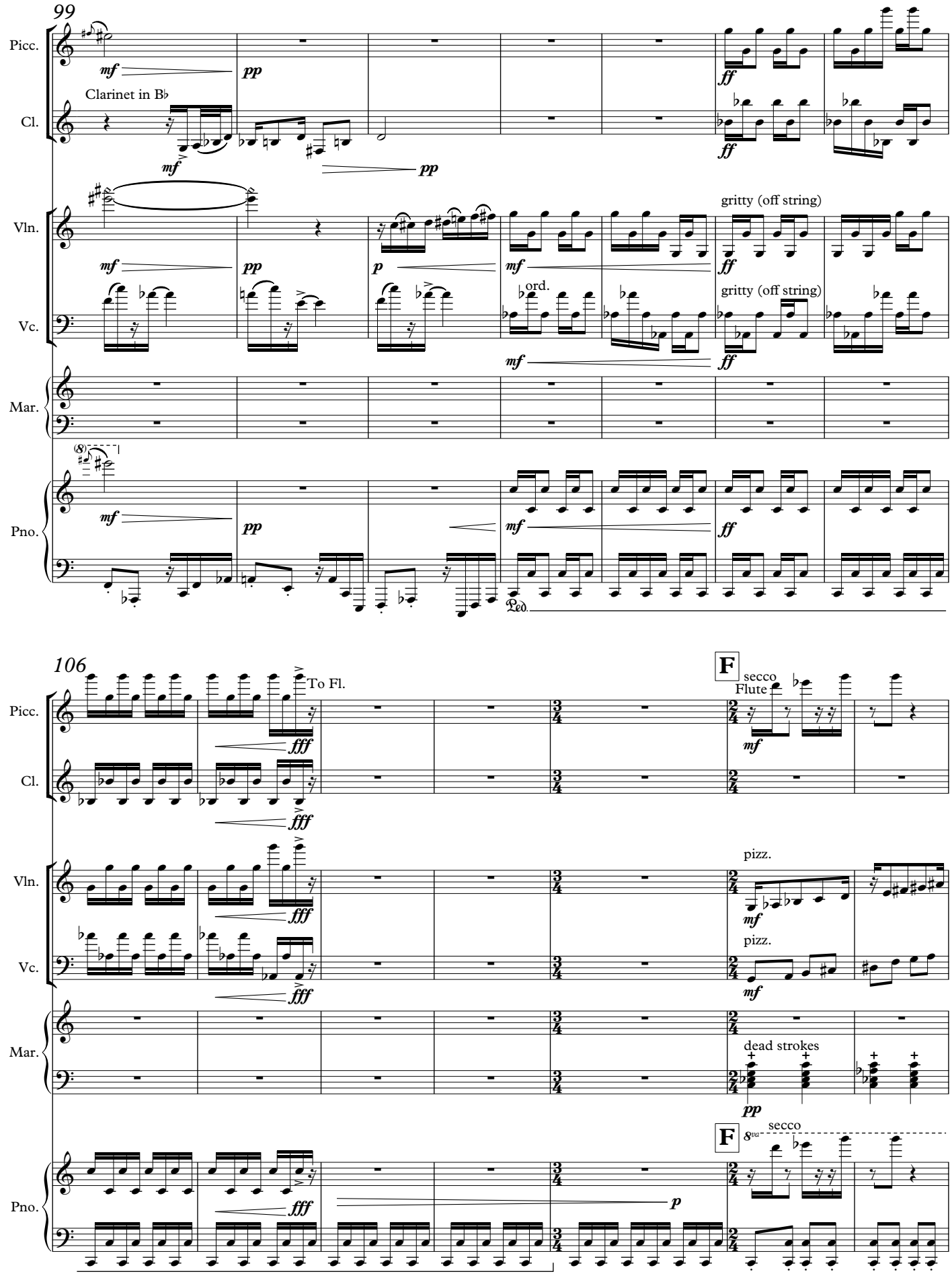

52
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
sempre staccato
f
C
To B. Cl.
ff
pizz.
gritty
sul pont.
legato
pp

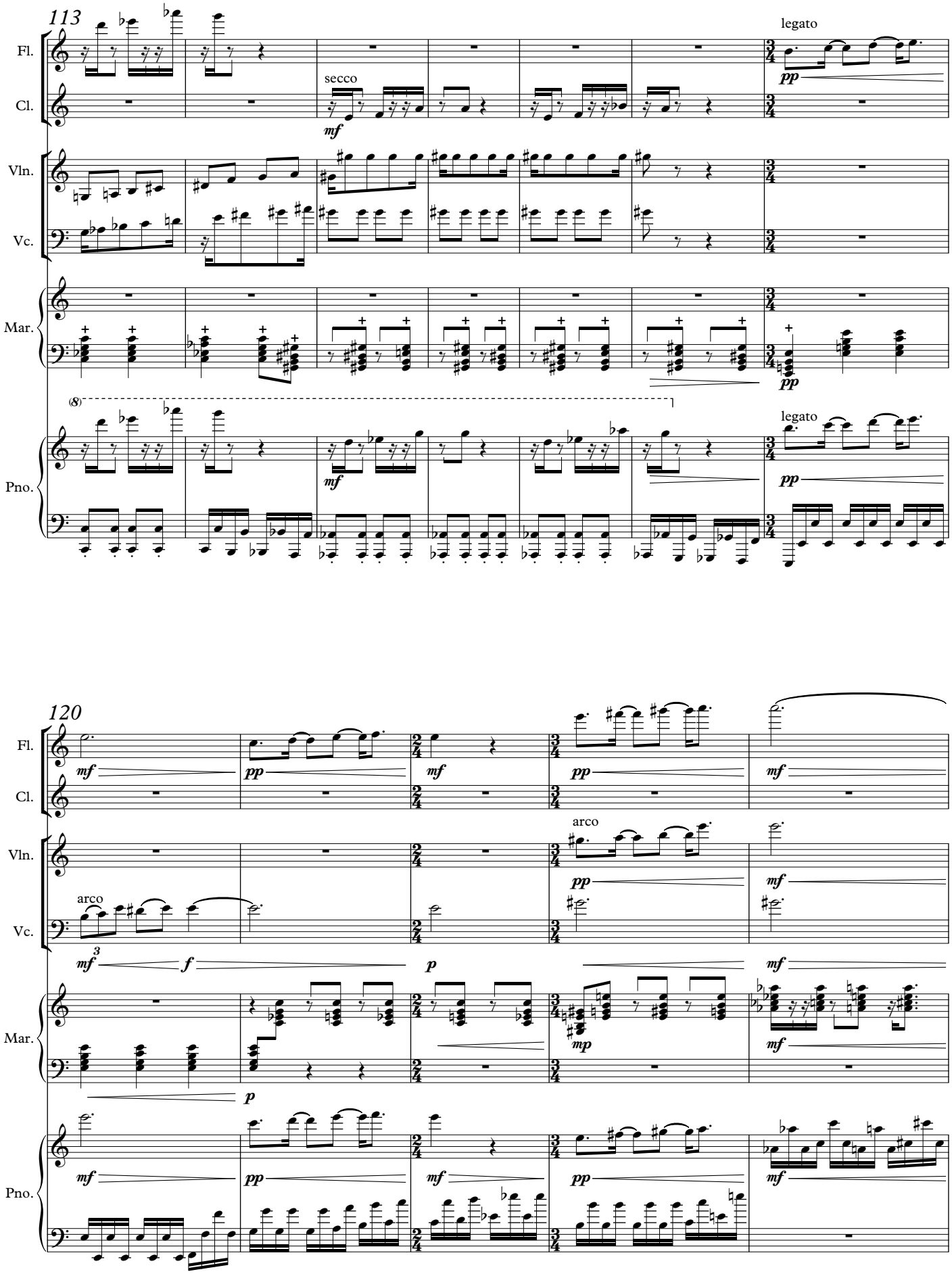

60
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
p
f

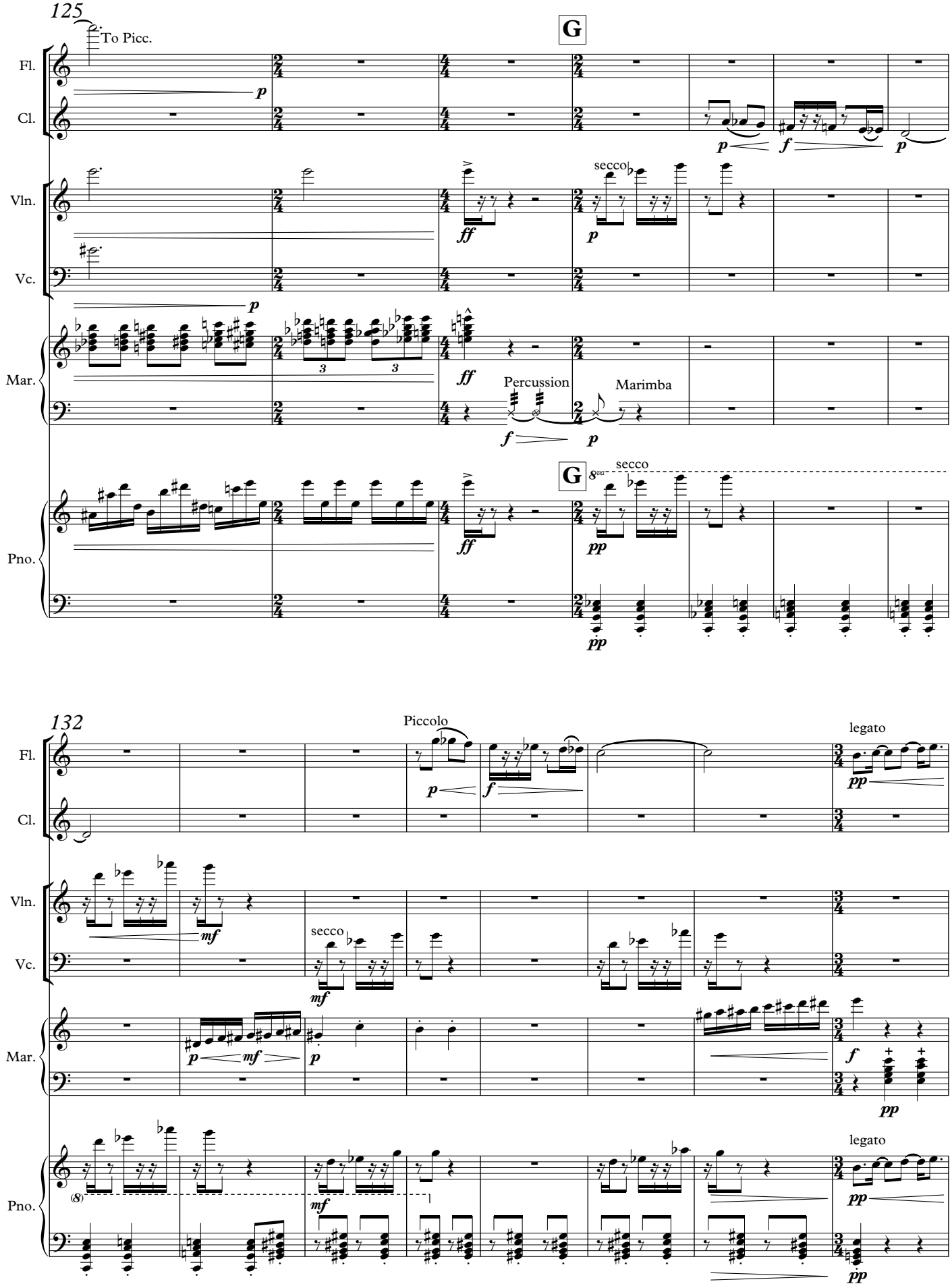

69
D
Fl.
Bass Clarinet
in B♭
B. Cl.
arco
Vln.
Vc.
Mar.
D
Pno.

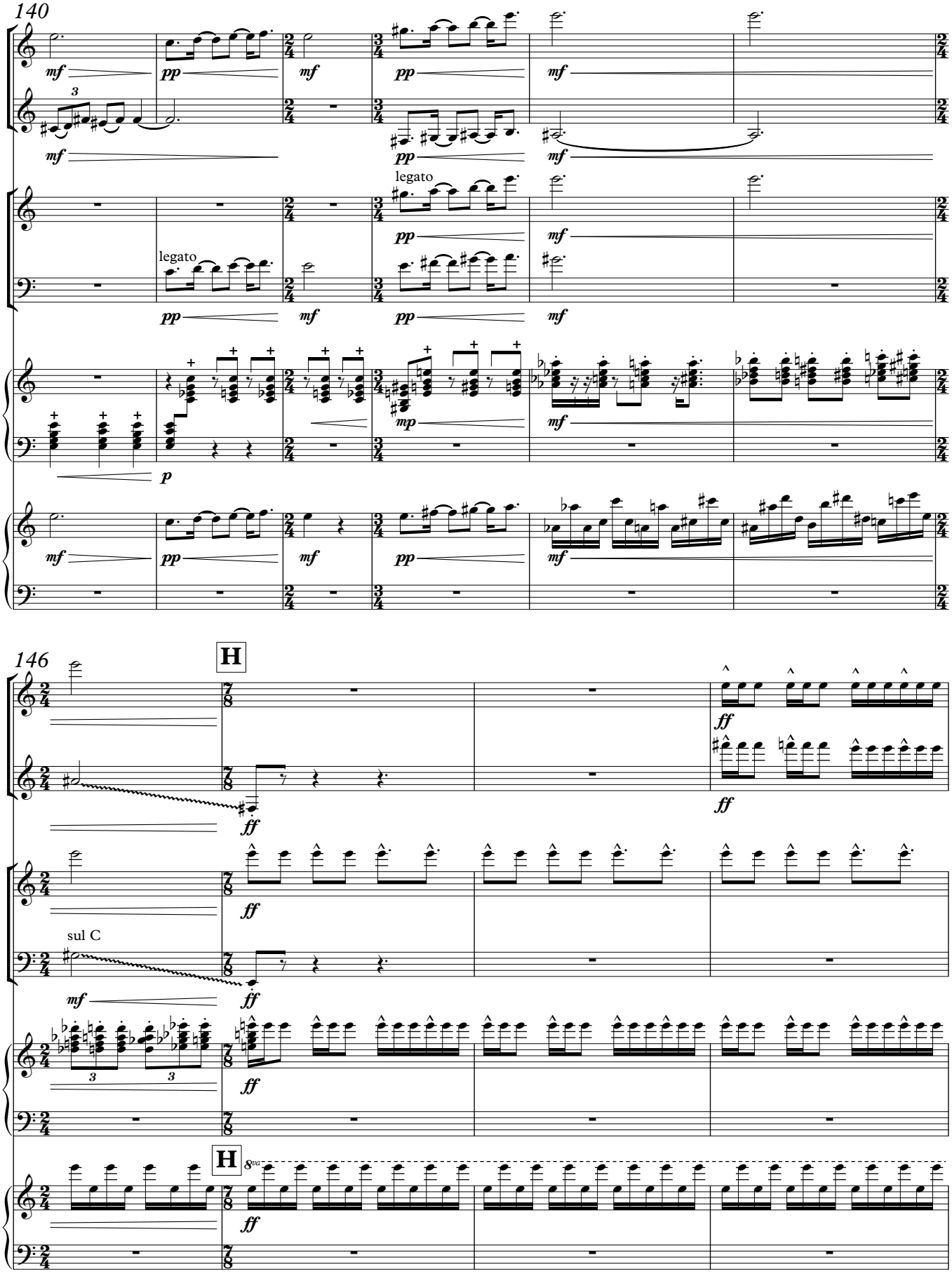

78
To Picc.
Fl.
B. Cl.
Vln.
Vc.
Mar.
Pno.

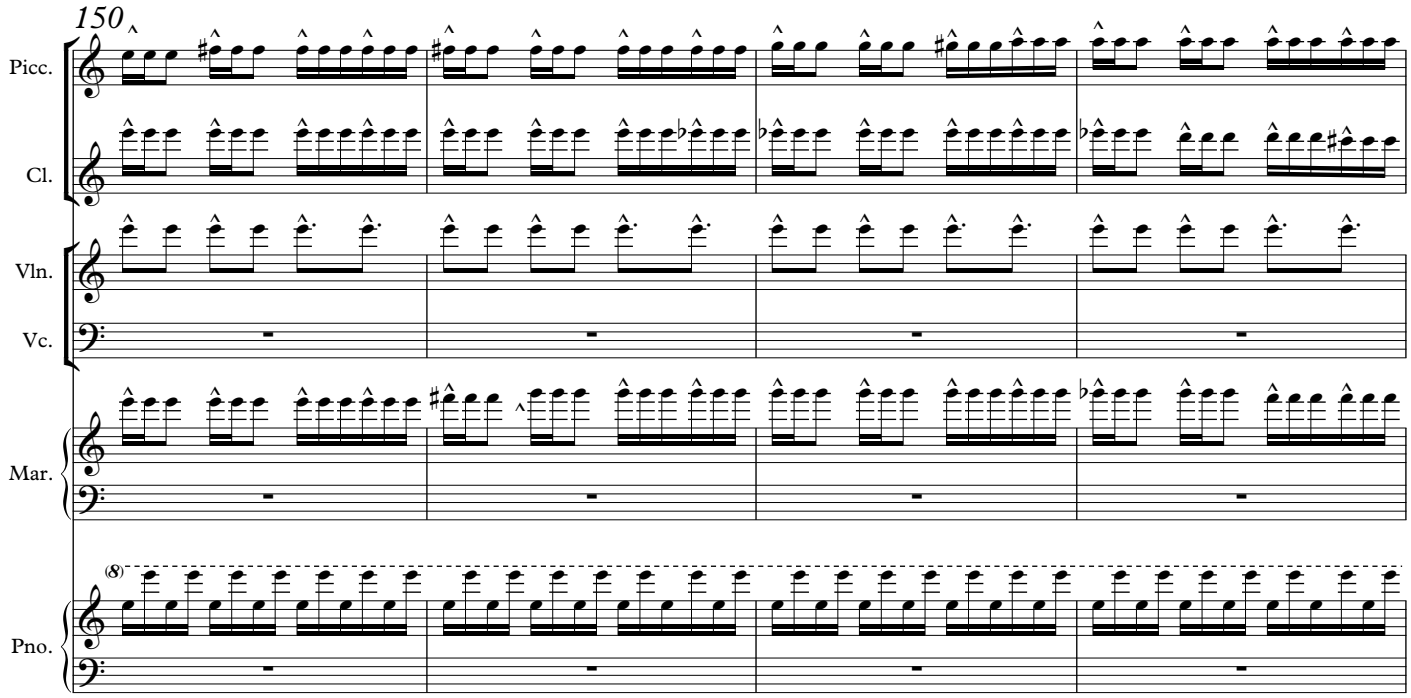

86
Piccolo
sempre staccato
Fl.
B. Cl.
Vln.
Vc.
pizz.
Mar.
Pno.
93
E
2nd X only
light
Picc.
To Cl.
glassy
sul pont.
2nd X only
arco
sul tasto
ord.
1st X haunting
2nd X fuller
light
2nd X only

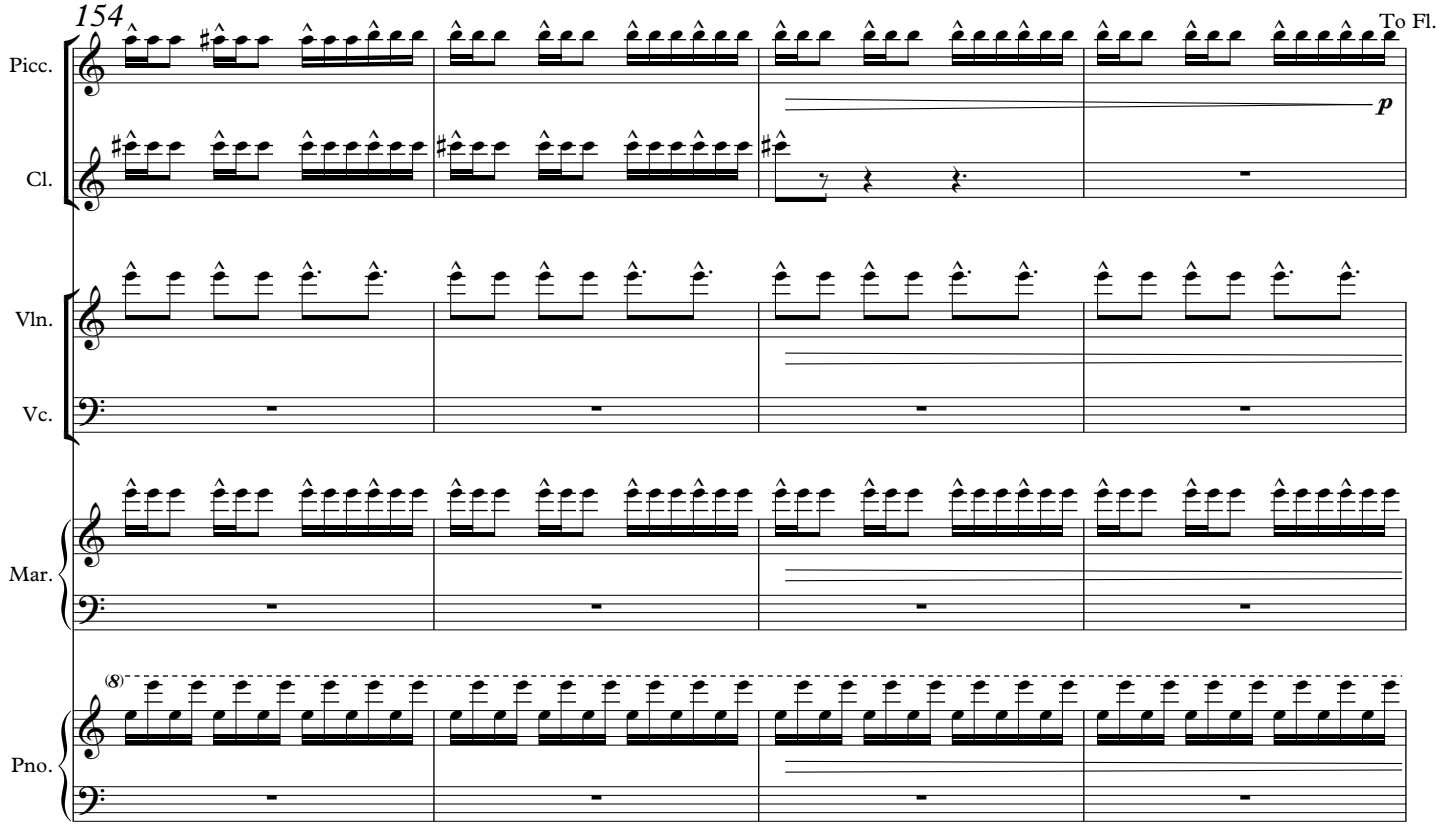

99
Picc.
Cl.
Clarinet in B♭
Vln.
Vc.
Mar.
Pno.
gritty (off string)
ord.
106
To Fl.
F
secco
Flute
pizz.
dead strokes

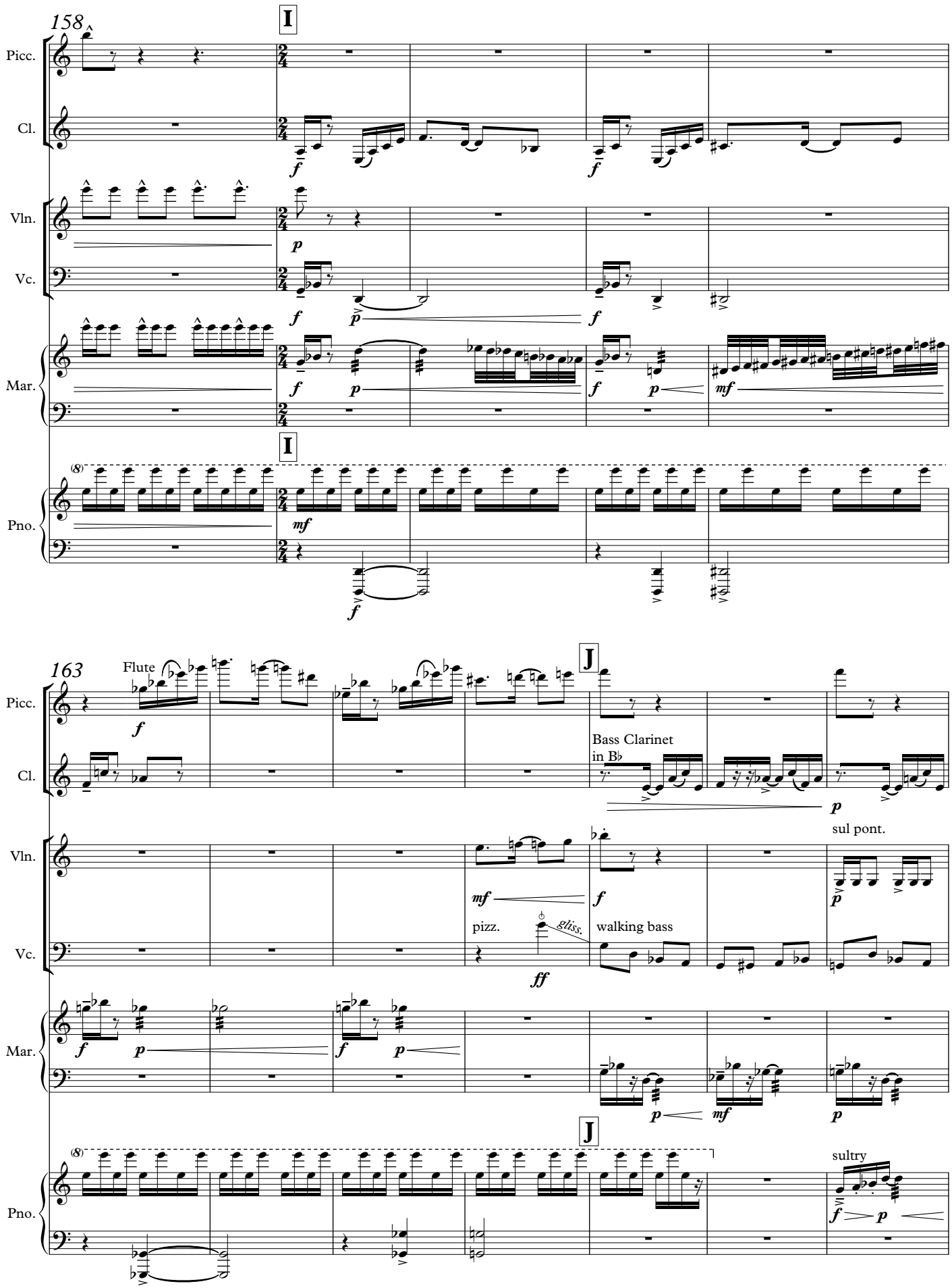

113
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
secco
mf
legato
pp
(8)
120
arco
mp
f
p

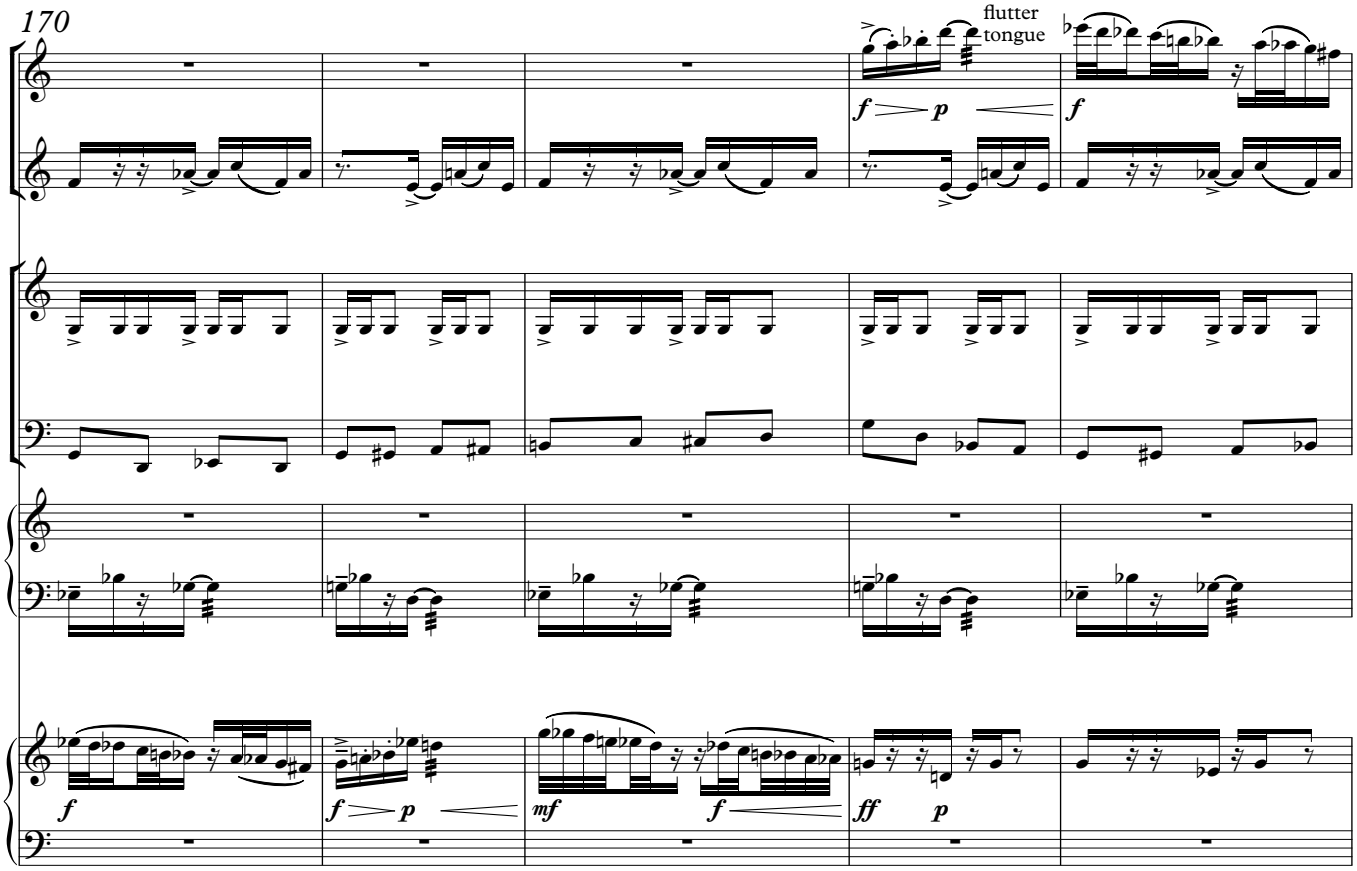

125
To Picc.
G
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
secco
Percussion
Marimba
8va
132
Piccolo
legato

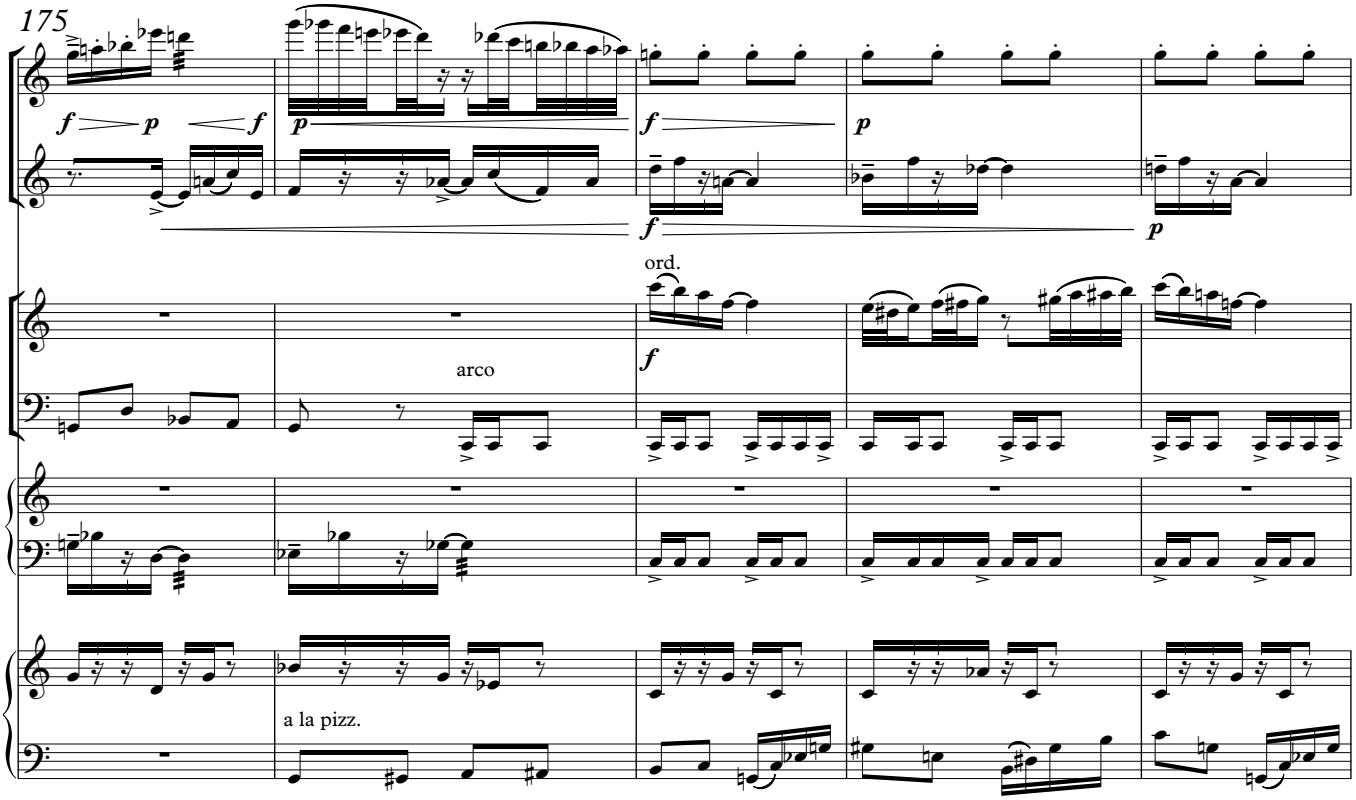

140
Picc.
Cl.
Vln.
Vc.
Mar.
Pno.
legato
sul C
146
H
8va

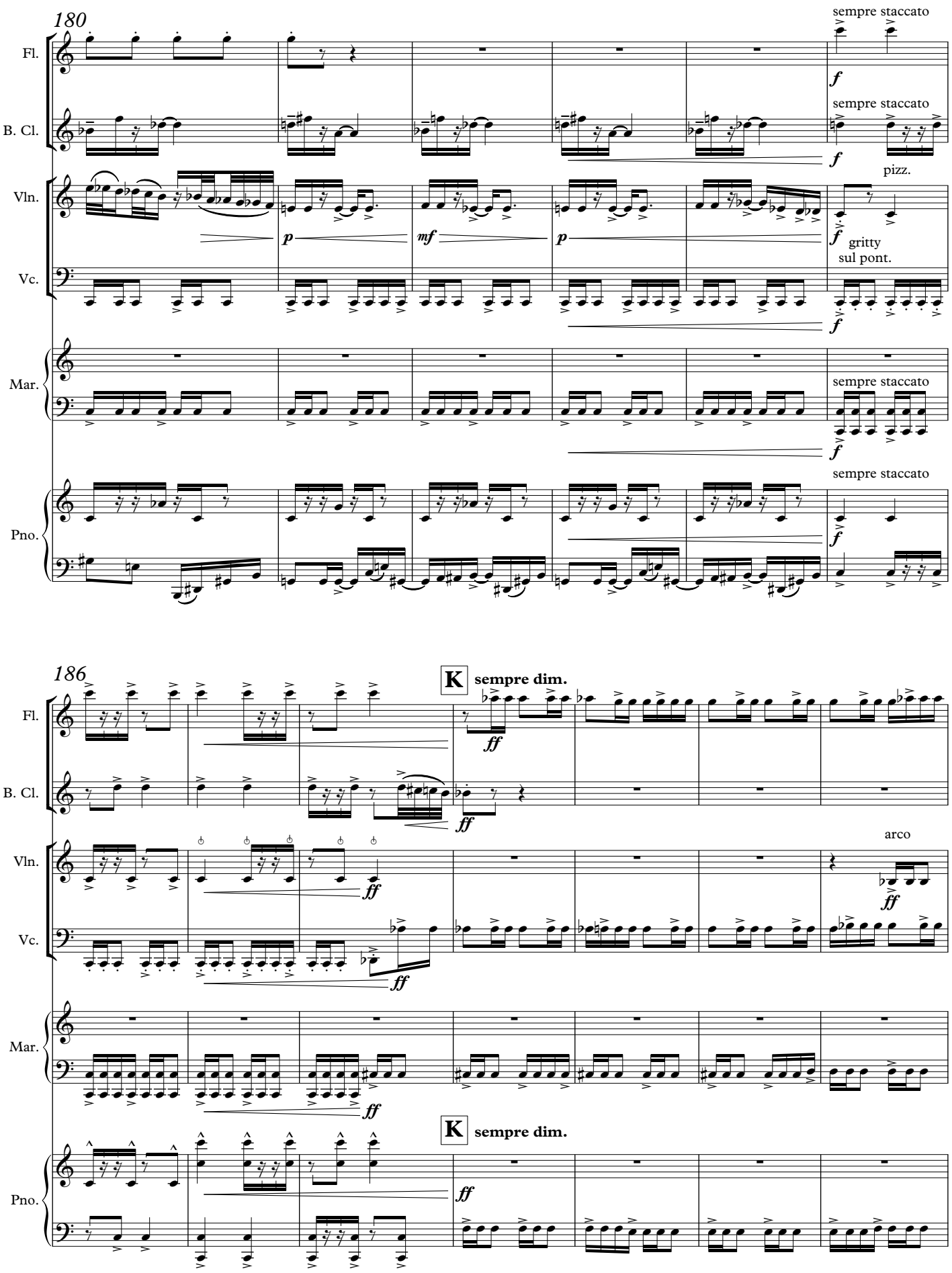

150
Picc.
Cl.
Vln.
Vc.
Mar.
Pno.
(8)

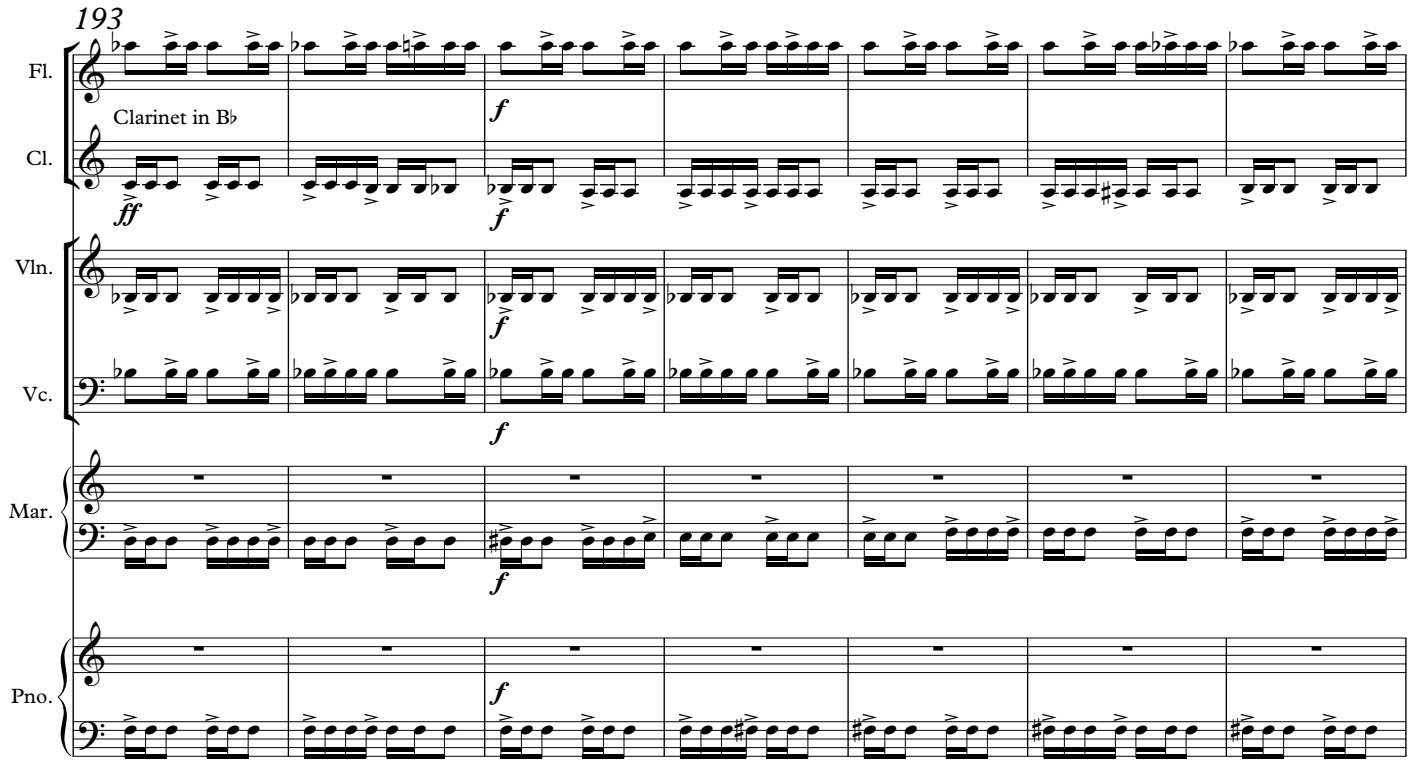

154
To Fl.
p
Picc.
Cl.
Vln.
Vc.
Mar.
Pno.
(8)

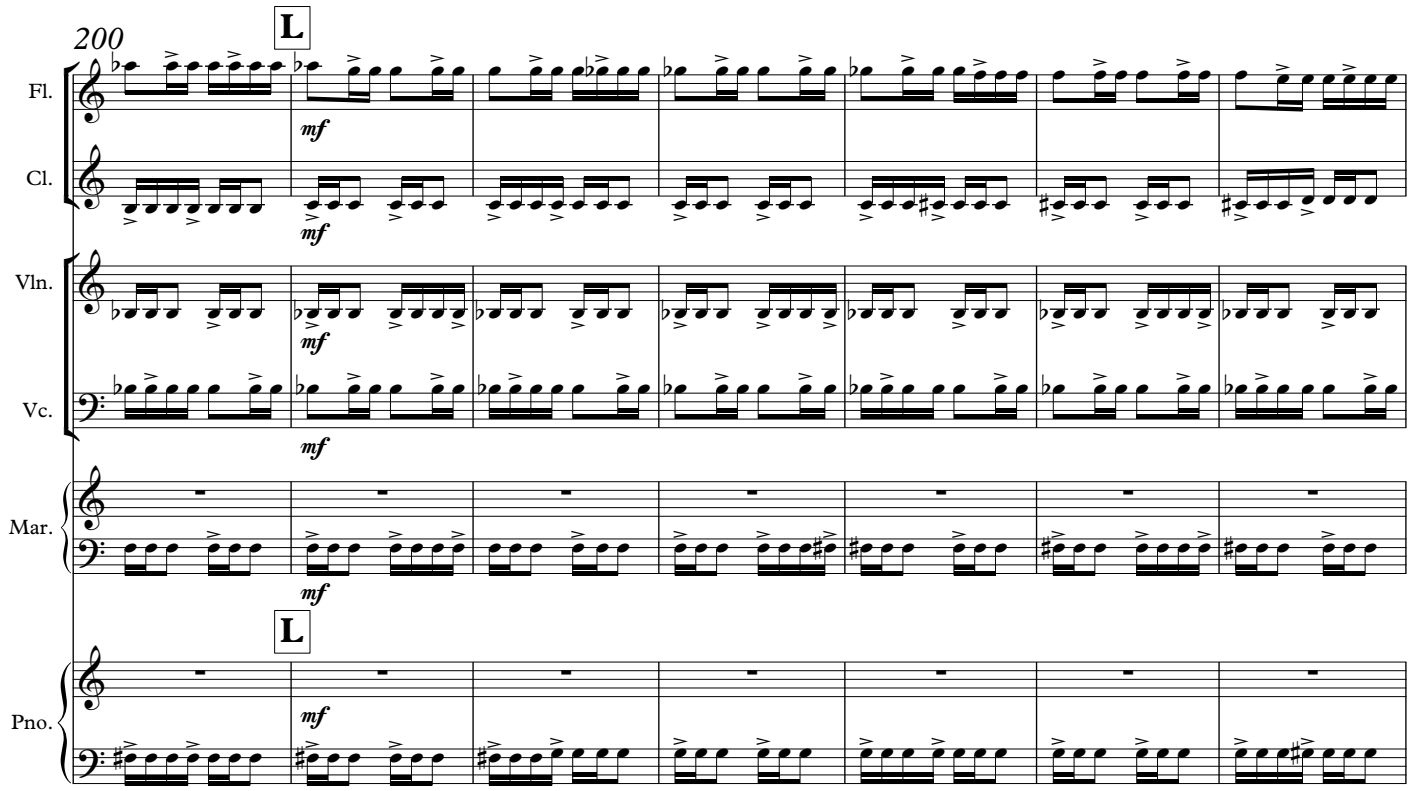

158
I
Picc.
Cl.
Vln.
Vc.
Mar.
Pno.
I
163
Flute
J
Bass Clarinet
in B♭
sul pont.
pizz.
gliss.
walking bass
J
sultry

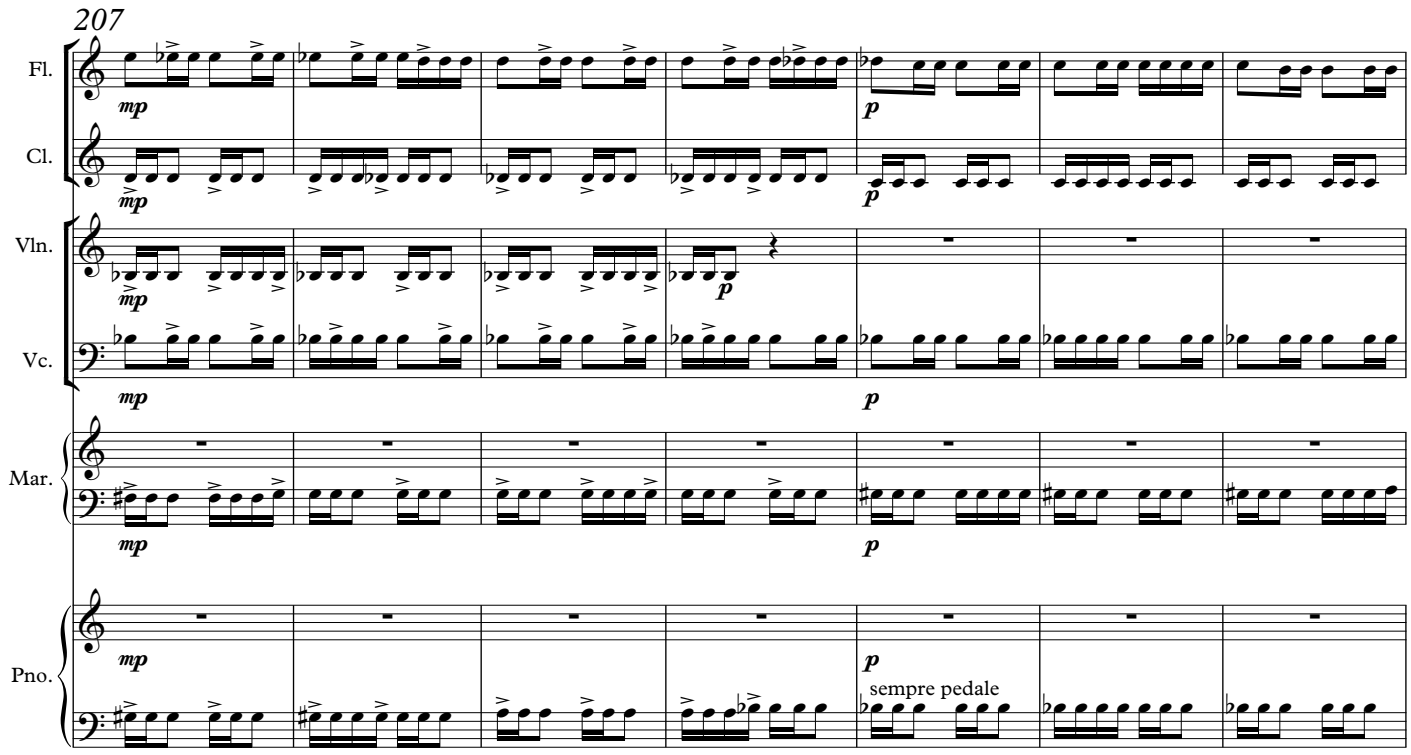

170
Fl.
B. Cl.
Vln.
Vc.
Mar.
Pno.
flutter tongue
f
p
mf
ff

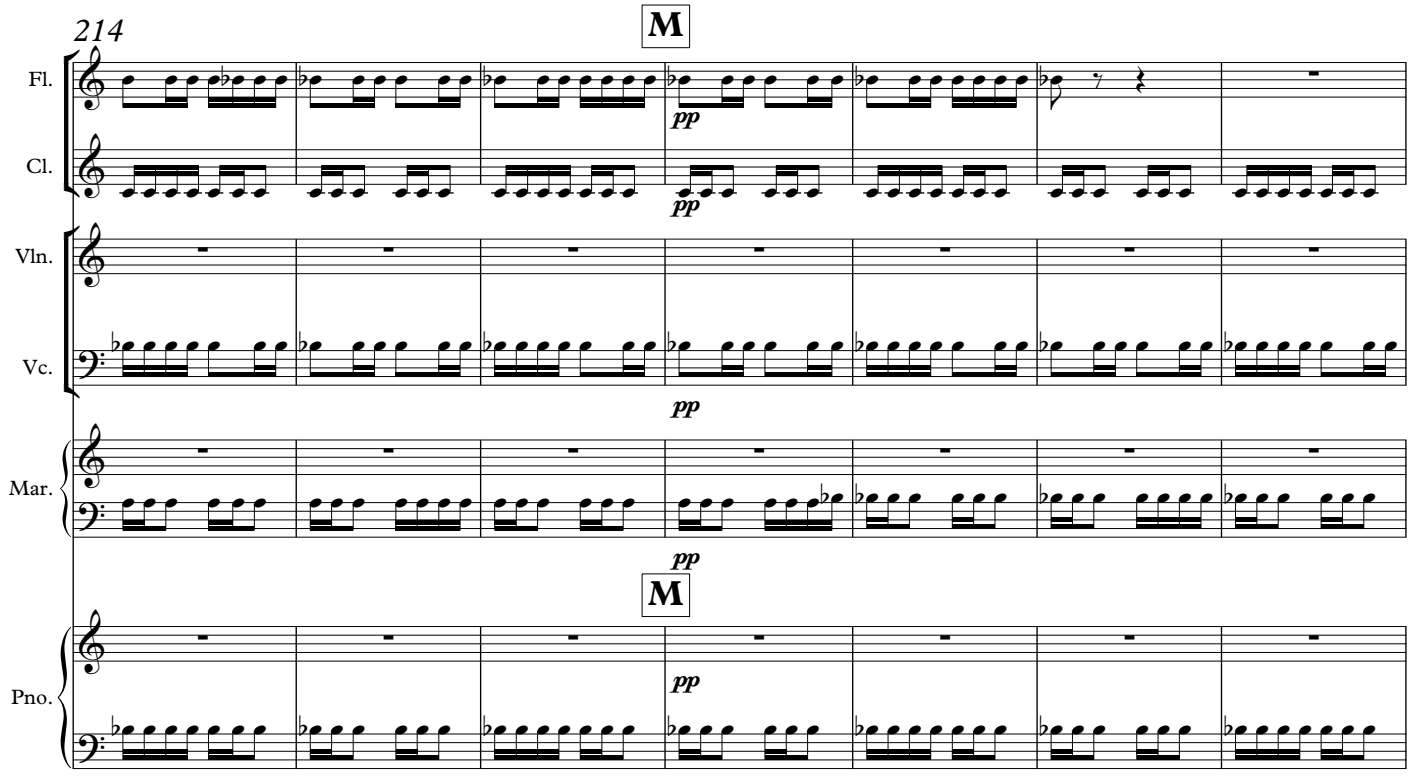

175
Fl.
B. Cl.
Vln.
Vc.
Mar.
Pno.
ord.
arco
a la pizz.
f
p

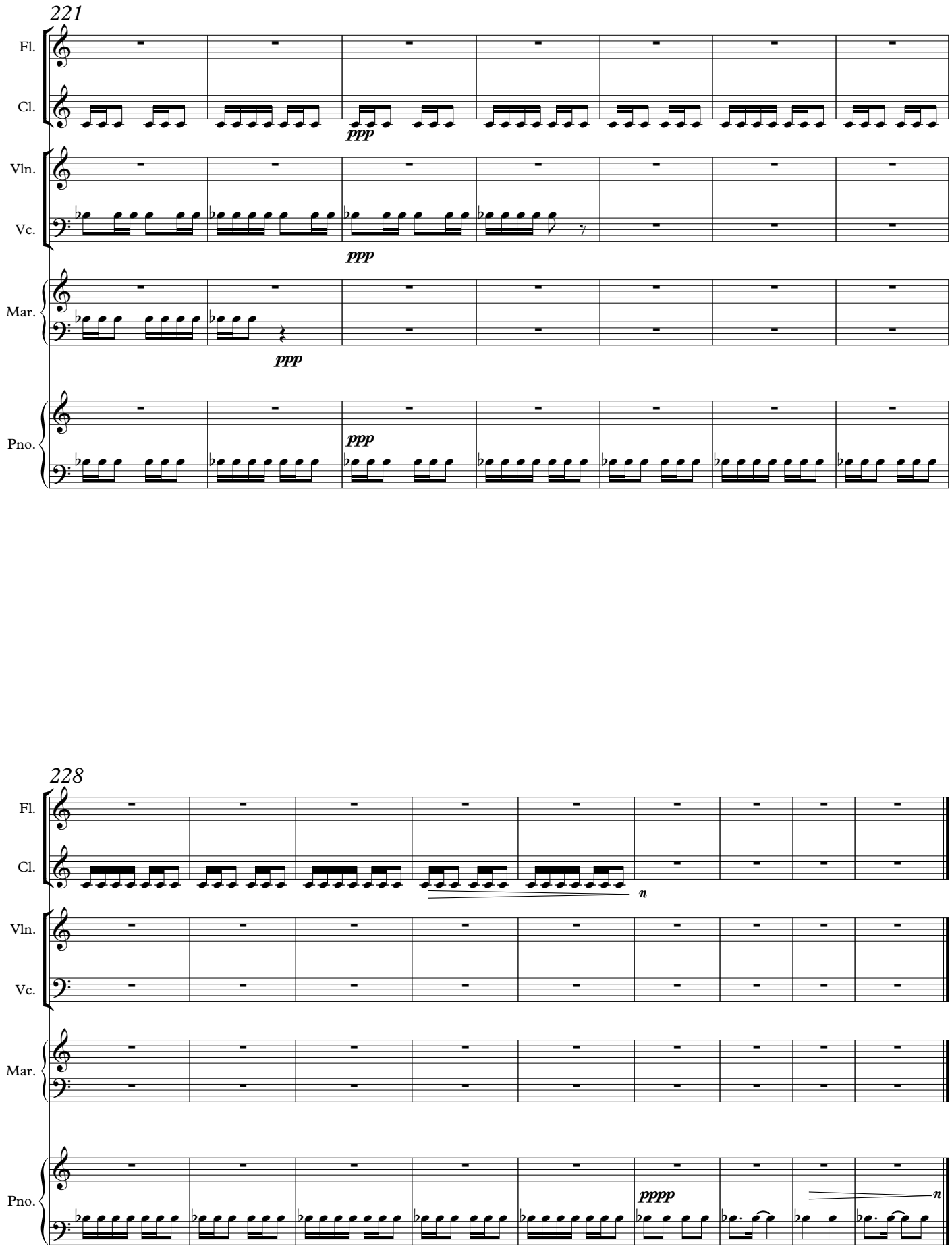

180
Fl.
B. Cl.
Vln.
Vc.
Mar.
Pno.
sempre staccato
pizz.
gritty
sul pont.
186
K
sempre dim.
arco


193
Fl.
Clarinet in B♭
Cl.
Vln.
Vc.
Mar.
Pno.
ff
f


200
L
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
mf
L


207
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
mp
p
sempre pedale


214
M
Fl.
Cl.
Vln.
Vc.
Mar.
Pno.
pp
M


221
Fl.
Cl.
ppp
Vln.
Vc.
ppp
Mar.
ppp
Pno.
ppp
228
Fl.
Cl.
n
Vln.
Vc.
Mar.
Pno.
pppp
n