t.R.,m.f.a.c-c.

cello solo

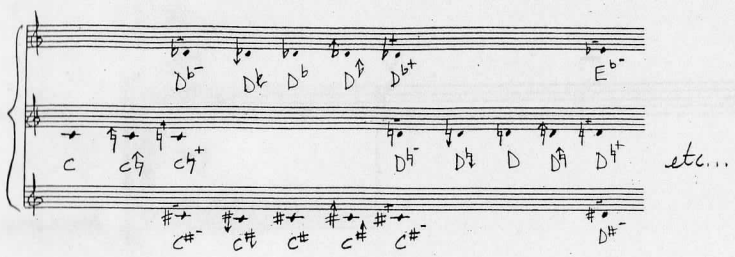
dedicated to Reynard Rott

San Diego
-2008-

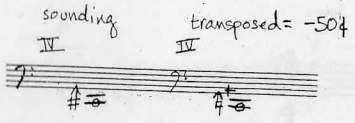
k. hagan

Performance Notes

Pitch Notation Arrows indicate 1/6-tone. Plus/Minus signs indicate 1/4-tone.



Due to 1/4-tone scordatura, occasionally both an arrow & plus or minus are used.



Tuning/Intonation Tuning should be accomplished with a tuner that displays cent values. All values are a combination of just-tuned and equal-tempered intervals.

Scordatura

I — Equal-tempered P4 down from A220
165 Hz
24 flat from equal-tempered E

II — Equal-Tempered 3/4-tone sharp from just-tuned D
159.9 Hz
51¢ flat from equal-tempered E

III — Equal-tempered M3 down from just-tuned G
77.61 Hz
4¢ flat from equal-tempered $E^{\flat}$

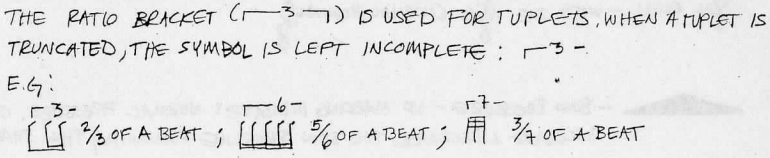
IV — Equal-tempered 1/4-tone sharp from just-tuned C
67.10 Hz
44¢ sharp from equal-tempered C

Performance of 1/4- & 1/6-tone pitches do not have to be accurate to the cent. Harmonics **must** be just intervals. E.G. 1st harmonic = 1/2 string lengths; 2nd harmonic = 1/3 or 2/3 string lengths, etc.

Tuning/Intonation cont'd The touch points given for the harmonics are for facilitated practice. The performer may choose alternate fingerings as long as accurately tuned and allows the bowing indicated.

Metric/Rhythmic Notation There are interrupted or truncated tuplet rhythms, the ratio bracket (┌─3─┐) is used for tuplets, when a tuplet is truncated, the symbol is left incomplete: ┌─3─

E.G.:



Meter is expanded on conventional notation to account for the truncated tuplets

I.E. $\frac{4}{4}$ indicates 4x quarter notes.

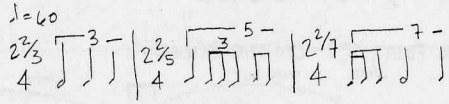
Therefore, $\frac{4}{4}$ ┌3┐ = $\frac{3}{3}$ (3x third notes)

or $\frac{4}{4}$ ┌7┐ = $\frac{7}{7}$ (7x seventh notes)

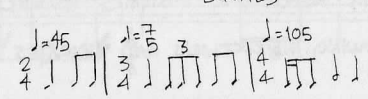
Accordingly, as in conventional notation, different beat counts may be supplied

E.G.: (♩=60 mm)

equals

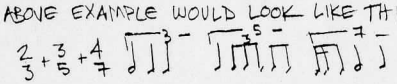


equals



Meters are compounded within measures. Ratio brackets are used to facilitate in reading the relative speeds.

The above example would look like this in this solo:



BOWING NOTATION EACH ASPECT OF BOWING IS CONTROLLED SEPARATELY. THE FOLLOWING TERMINOLOGY IS USED TO INDICATE THE DEGREES BETWEEN BOWING TECHNIQUE, IN THE CASES WHERE BOWING AND FINGERING INSTRUCTIONS INTERFERE WITH EACH OTHER, THE BEST APPROXIMATION OF THE BOWING IS ACCEPTABLE.

COL LEGNO - WITH THE WOOD (NO HAIR) - EVEN IF THIS DOES NOT PRODUCE THE PITCHES AS WRITTEN
↓
COL CRINI - WITH THE HAIR (NORMAL BOWING)

- BOW PRESSURE - NO MARKING INDICATES NORMAL PRESSURE, OTHERWISE, INCREASE & DECREASE THE BOW PRESSURE FOLLOWING THE SHAPE, OCCASIONALLY, THE INSTRUCTION "CRUNCH" INDICATES EXTREME BOW PRESSURE CAUSING TIMBRE CHANGE.

ALLA PUNTA — WITH THE BOW POINT
↓
ORDINARIO (ORD) — BOW NORMALLY
↓
AL TALLONE — WITH THE FROG

SUL TASTO (S.T.) — ON THE FINGERBOARD
↓
FLAUTANDO (FL.) — NEAR THE FINGERBOARD
↓
SUL NORMAL (NORM) — NORMAL BOWING
↓
AL PONTICELLO (AL PONT) — NEAR THE BRIDGE
↓
SUL PONTICELLO (SUL PONT; S.P.) — ON THE BRIDGE

AN ARROW BETWEEN BOWING INSTRUCTIONS INDICATES GRADUAL BOWING CHANGE.

ARCO ORD. CANCELS ALL BOWING INSTRUCTIONS AND INDICATES A RETURN TO NORMAL BOWING

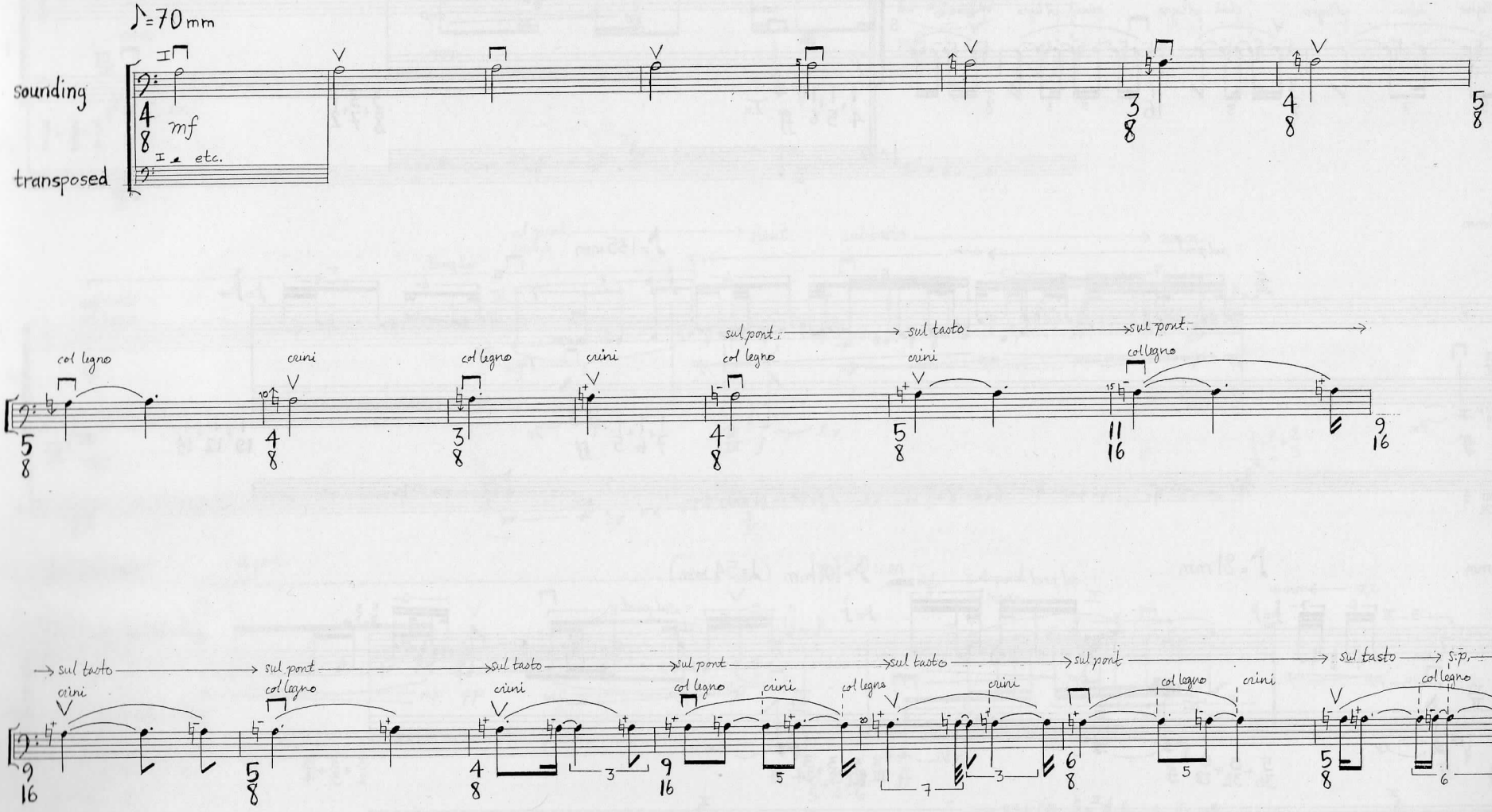
⊓ - DOWN BOW

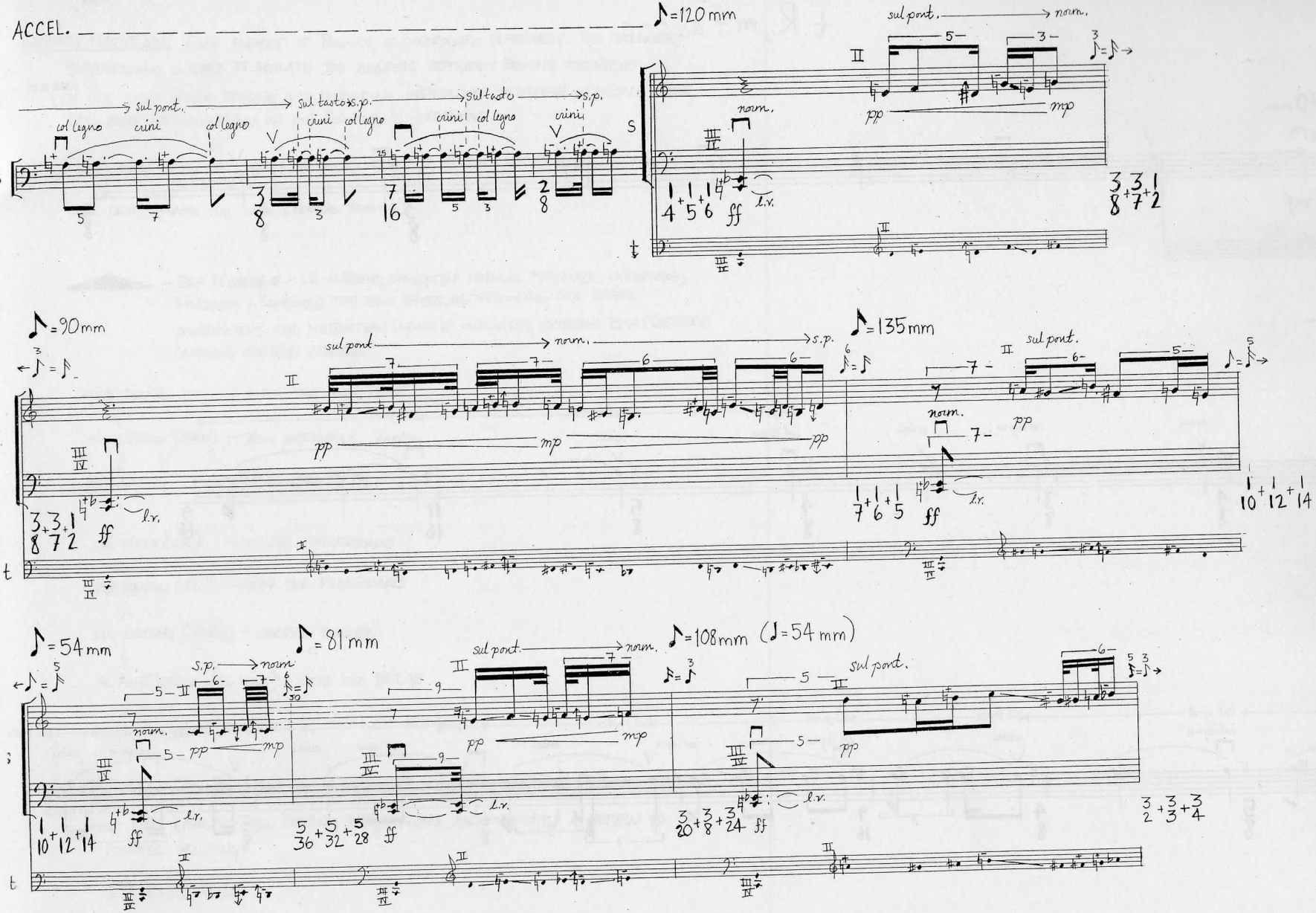
V - UP BOW

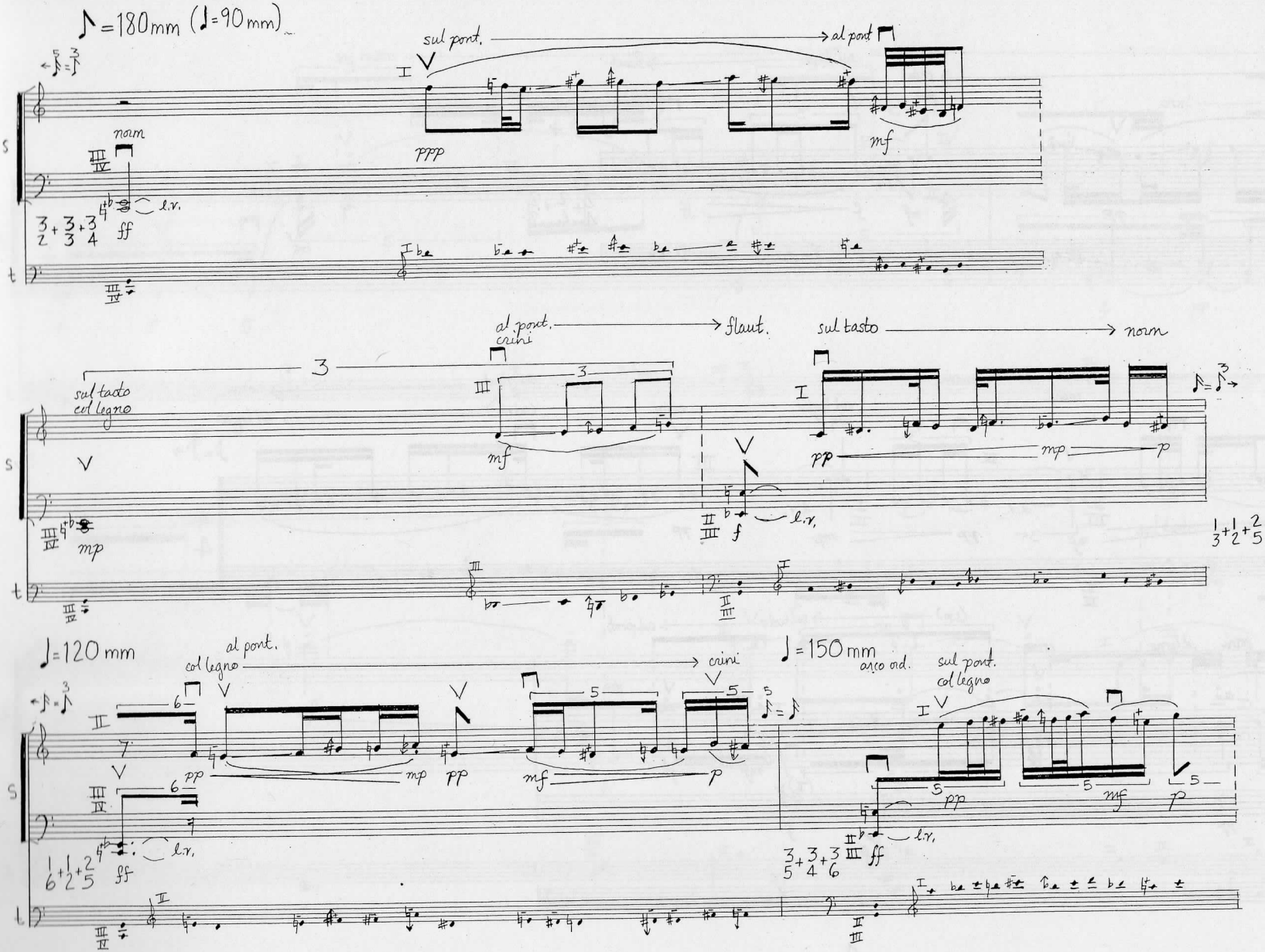
dedicated to Reynard Rott

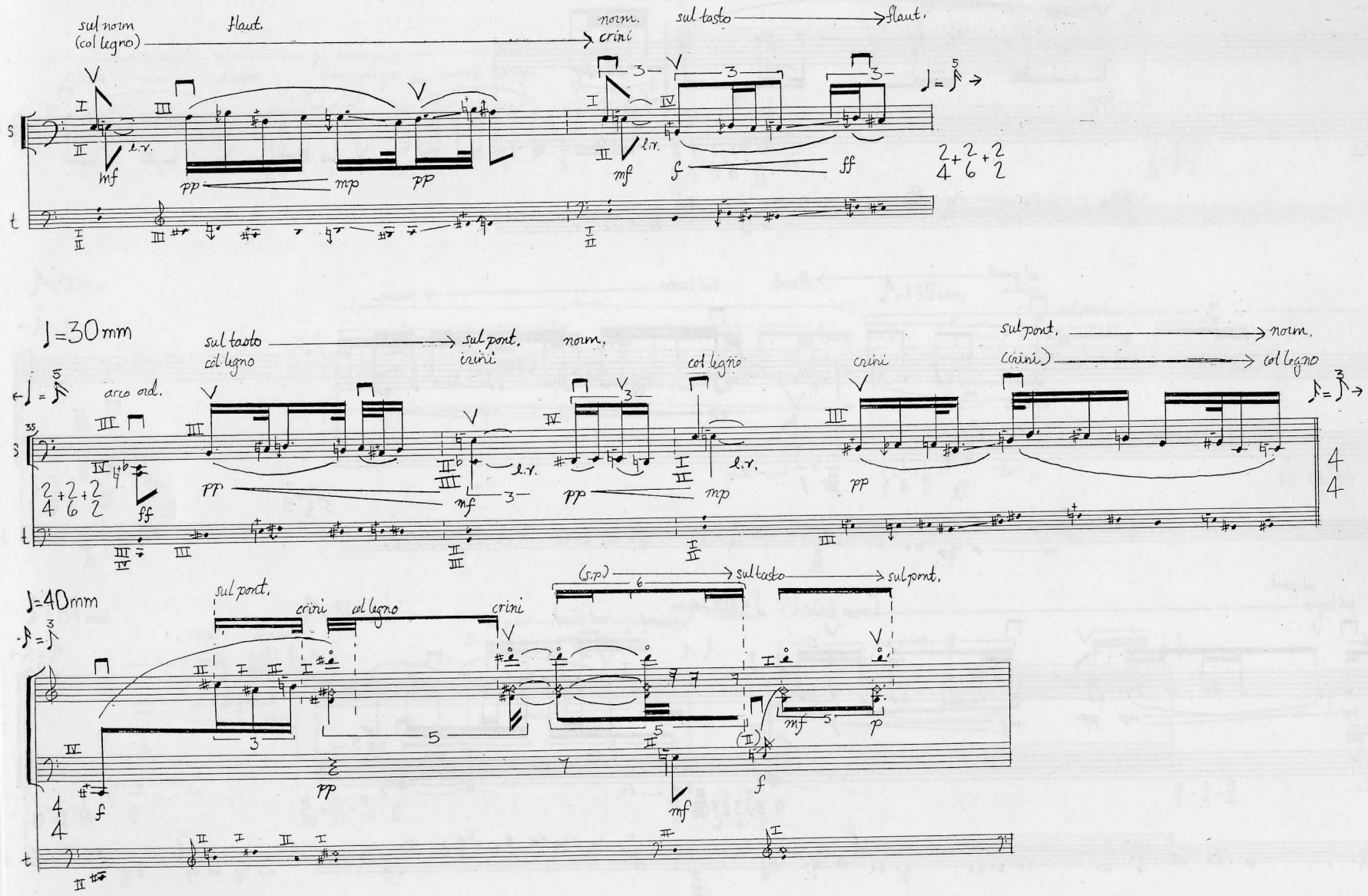
t.R., m.f.a.c-c.

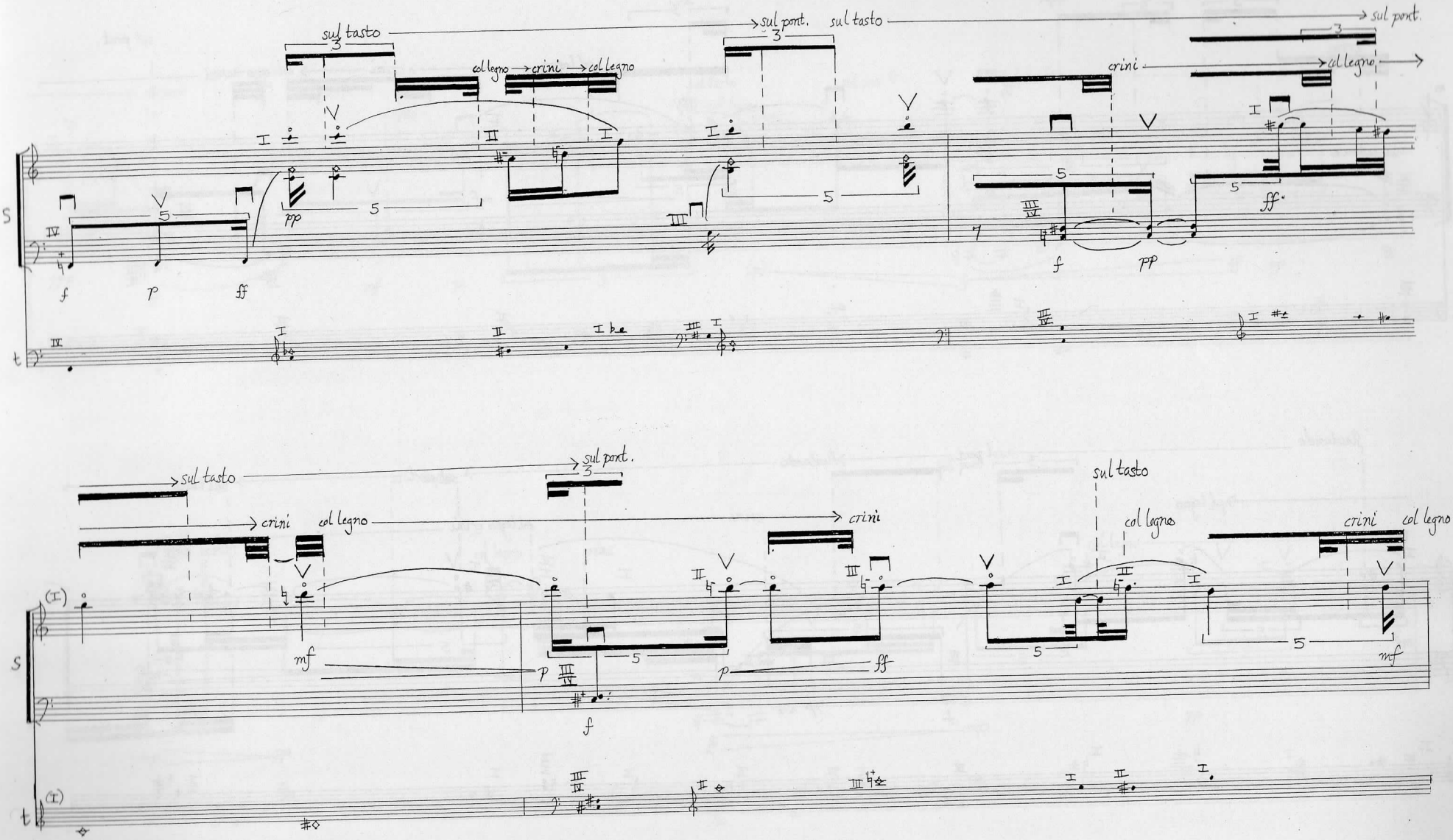
k. hagan

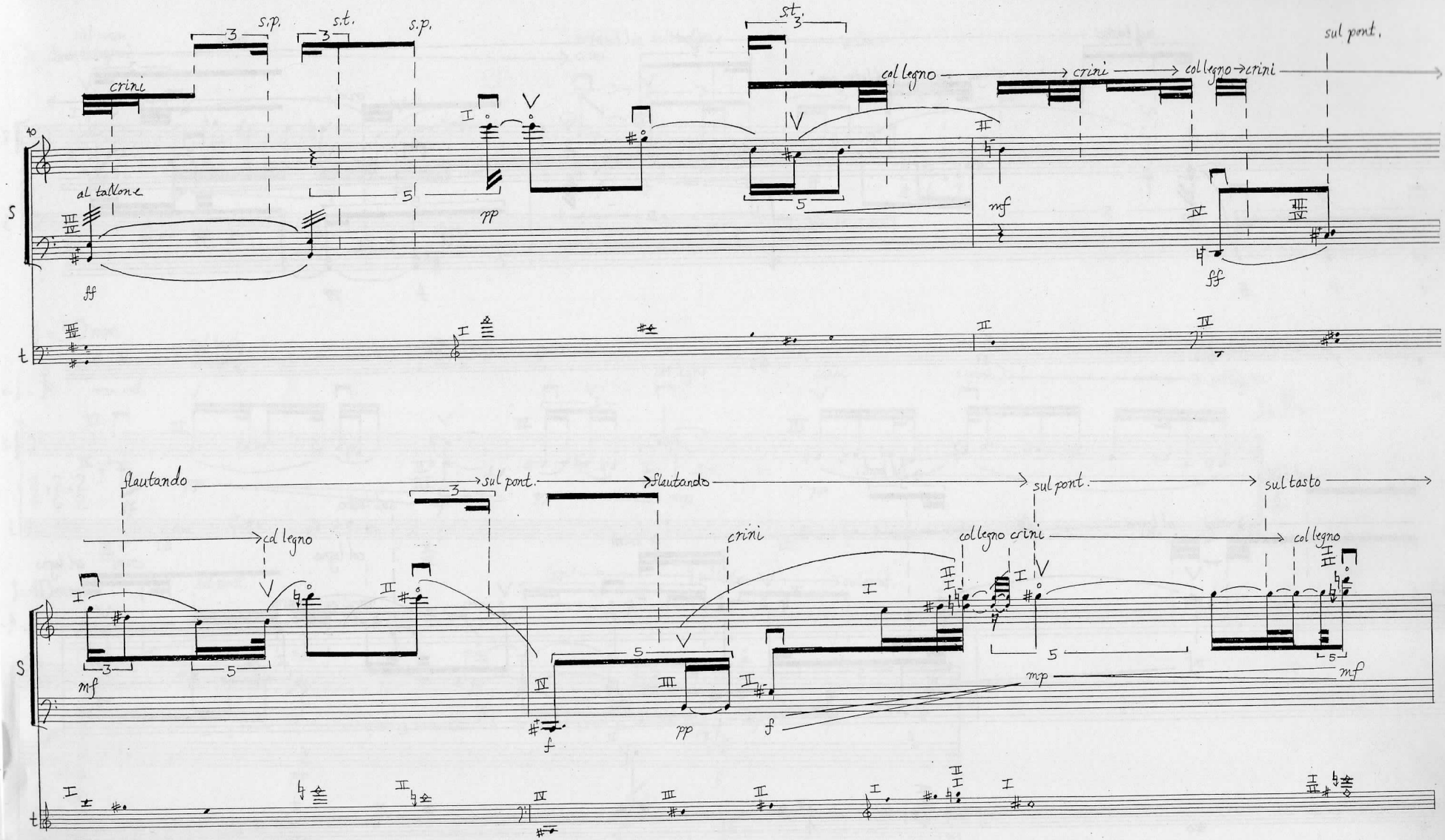


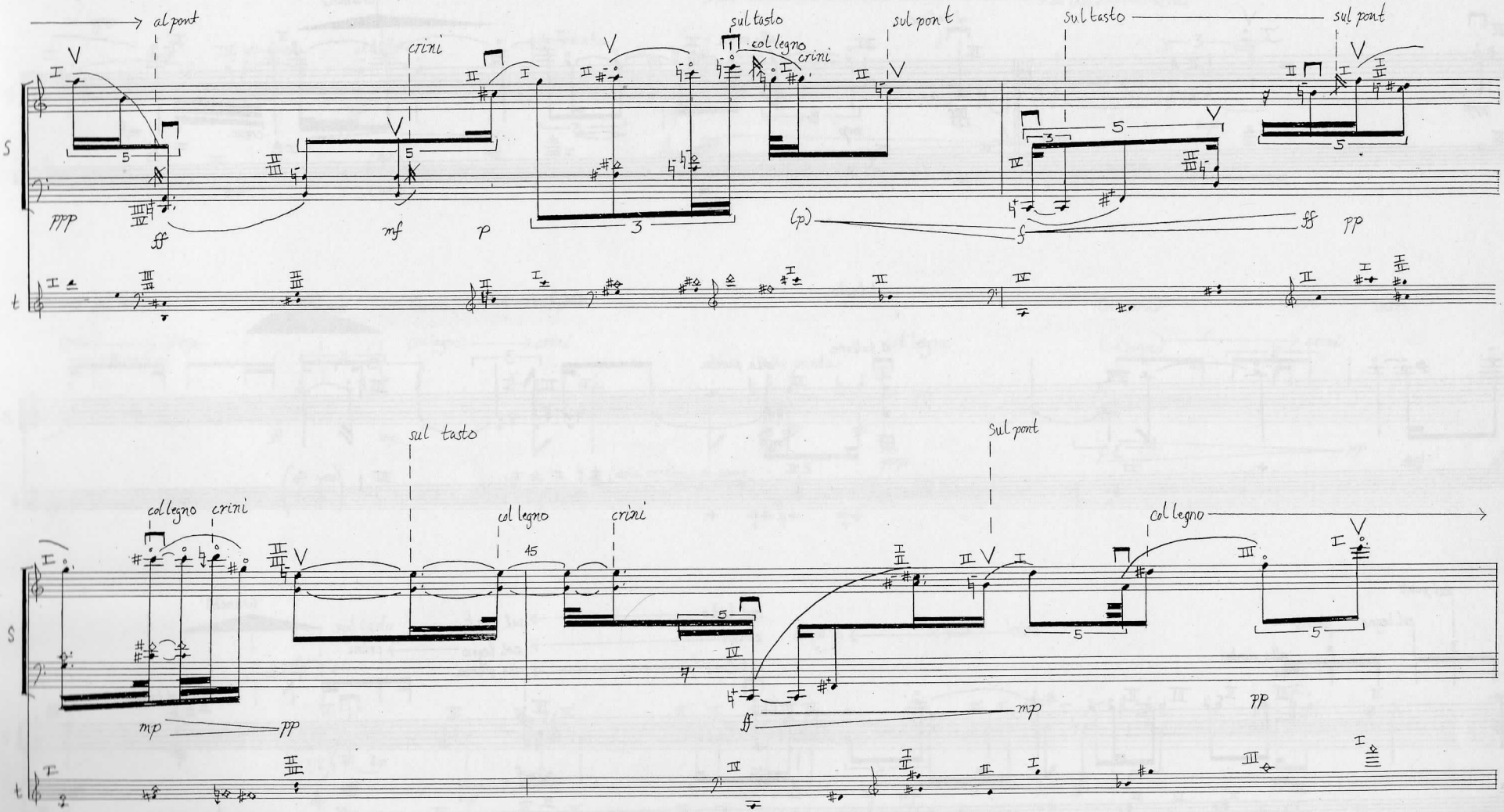

ACCEL.
♪=120 mm
col legno
crini
sul pont.
sul tasto
s.p.
norm.
pp
mp
ff
l.v.
♪=90 mm
♪=135 mm
♪=54 mm
♪=81 mm
♪=108 mm (♩=54 mm)

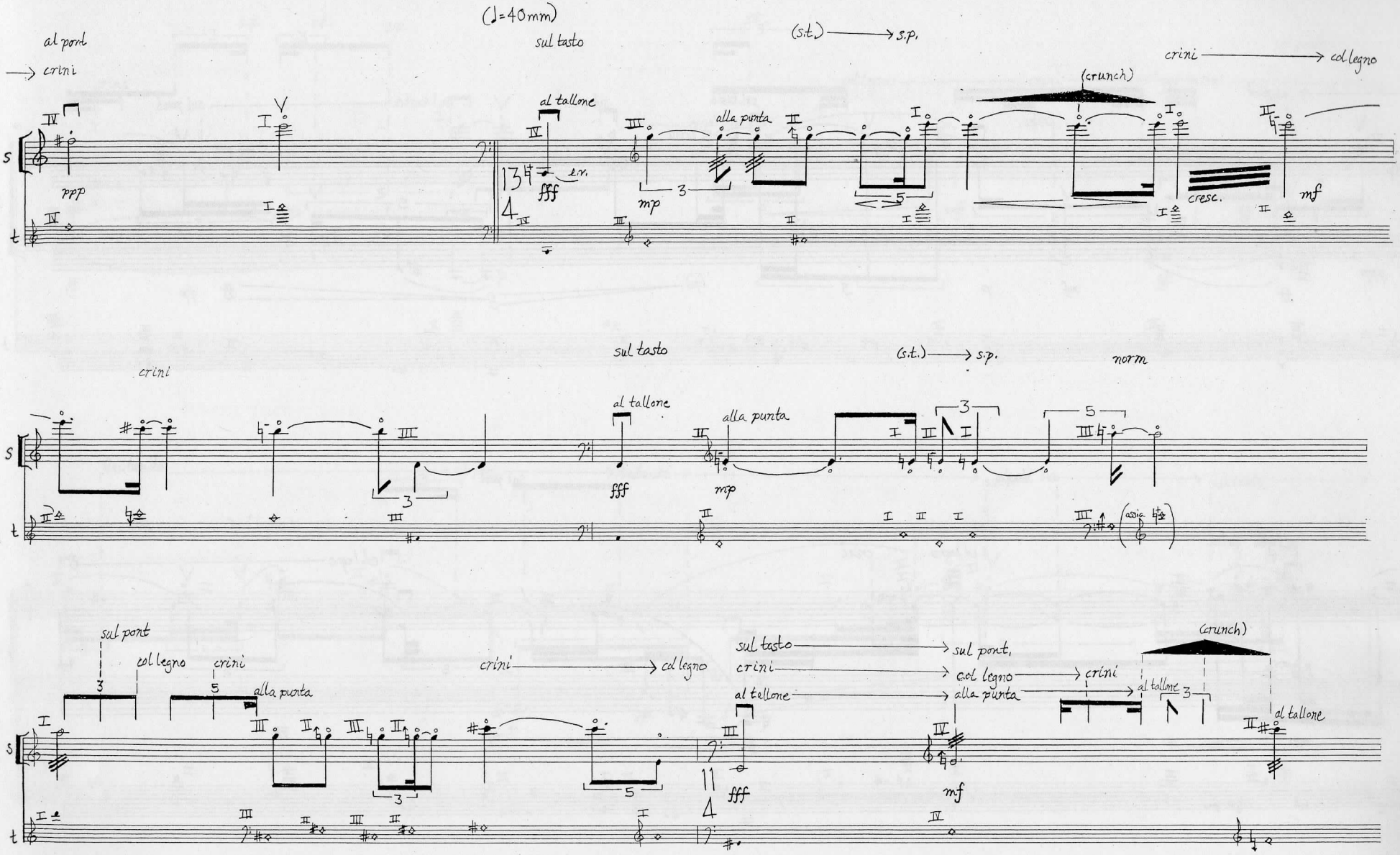

♪=180mm (♩=90mm)
sul pont.
al pont
norm
ppp
mf
l.v.
ff
al pont.
crini
flaut.
sul tasto
norm
sul tasto
col legno
mf
pp
mp
p
f
l.v.
mp
♩=120 mm
al pont.
col legno
crini
♩=150 mm
arco ord.
sul pont.
col legno
pp
mp
pp
mf
p
pp
mf
p
l.v.
ff
l.v.
ff

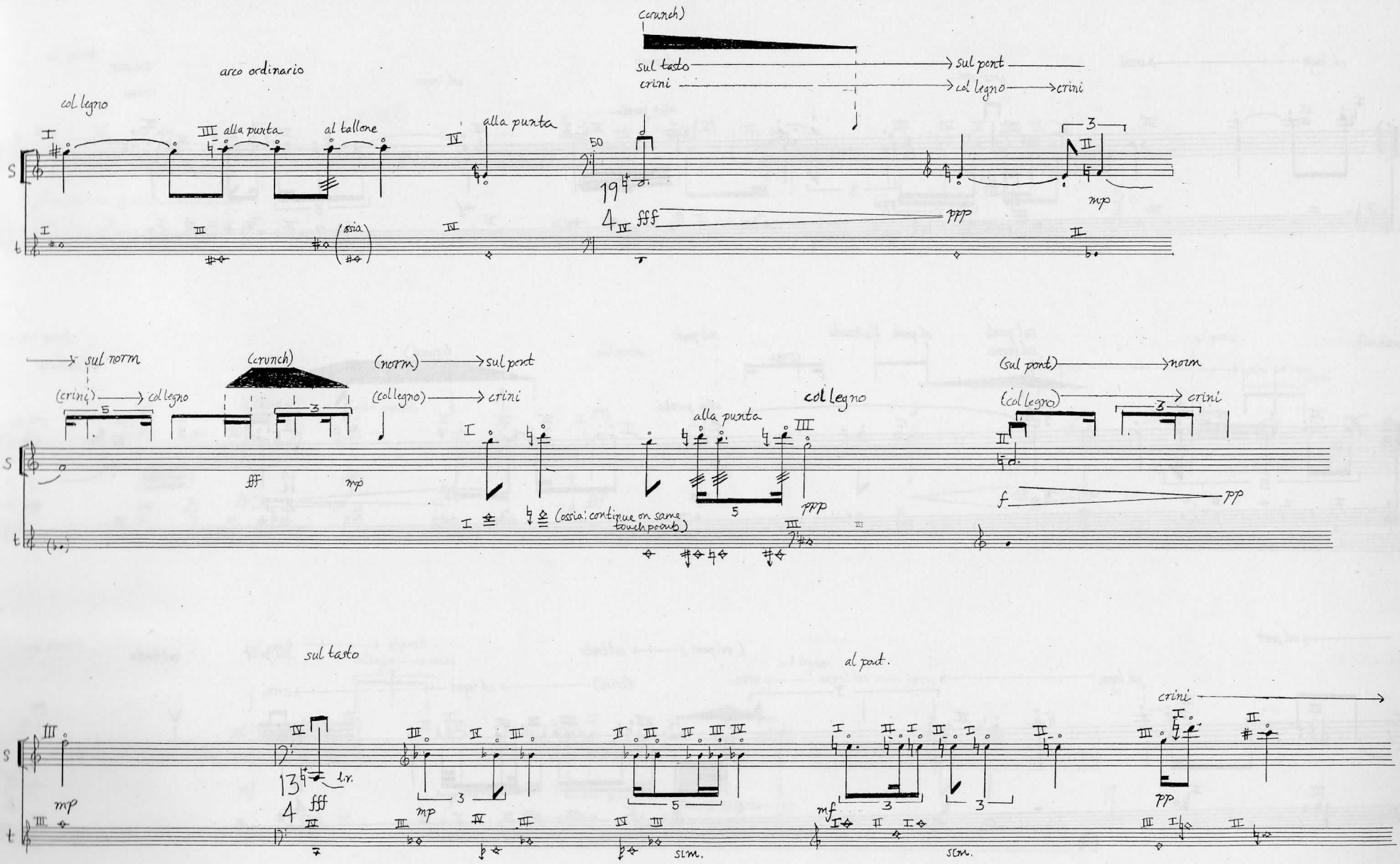

sul norm
(col legno)
flaut.
norm.
crini
sul tasto
flaut.
l.v.
mf
pp
mp
pp
mf
f
ff
2+2+2
4 6 2
♩=30mm
sul tasto
col legno
sul pont.
crini
norm.
col legno
crini
sul pont.
(crini)
col legno
arco ord.
l.v.
pp
mf
pp
mp
pp
ff
4
4
♩=40mm
sul pont.
crini
col legno
crini
(s.p.)
sul tasto
sul pont.
pp
f
mf
mf
p
f

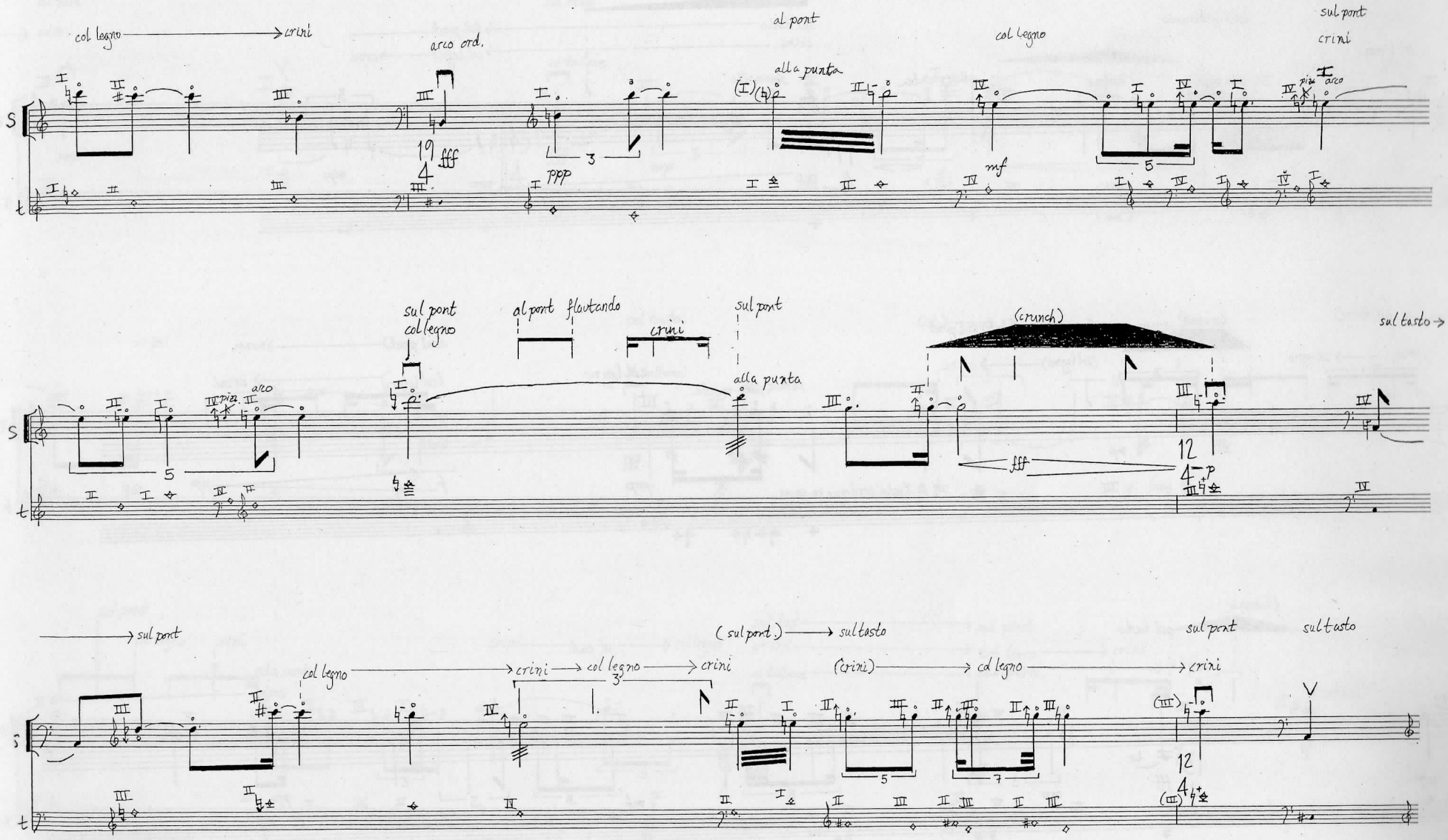

sul tasto
sul pont.
col legno
crini
S
t
f
p
ff
pp
mf

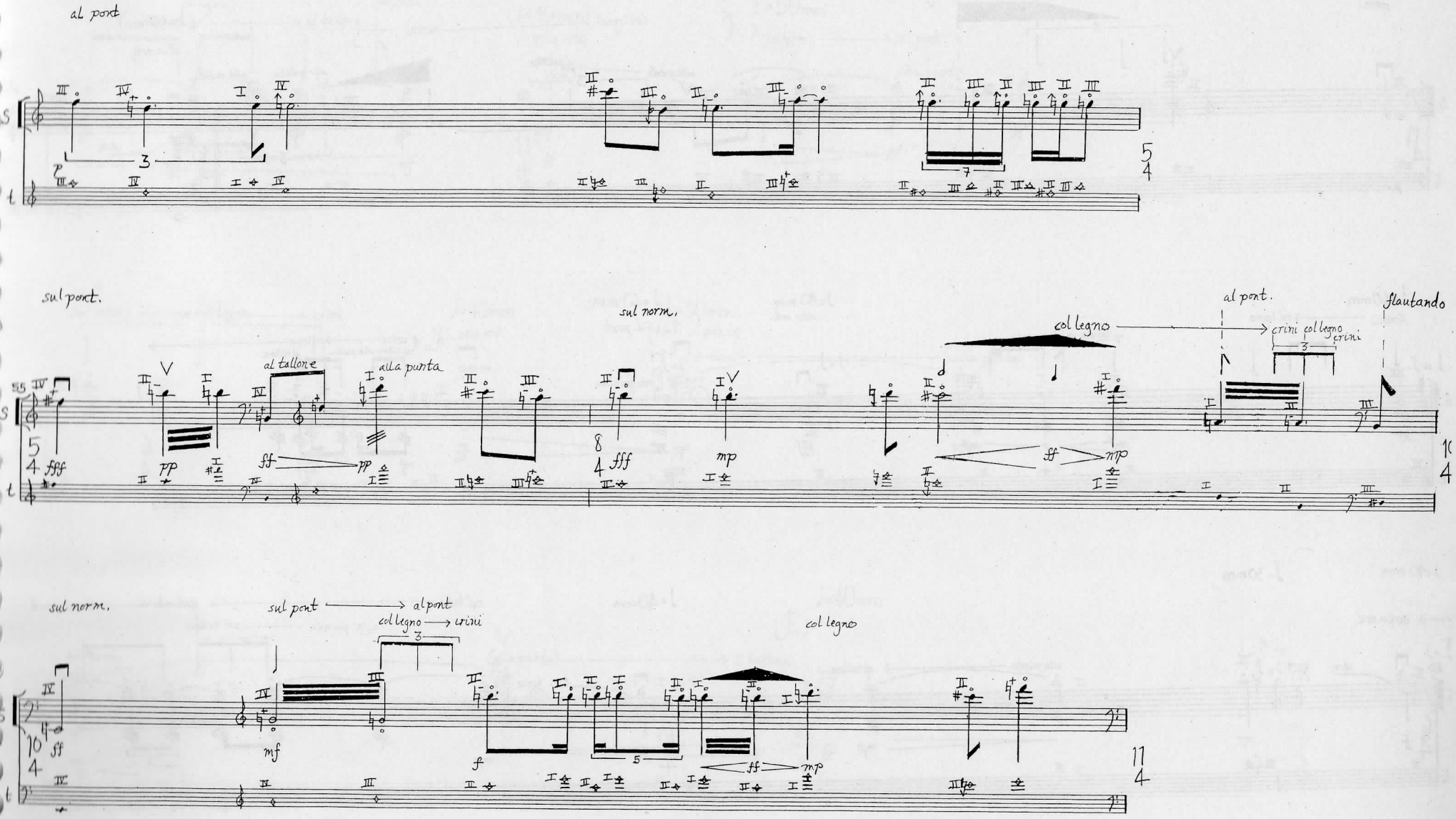

40
S
t
s.p.
s.t.
s.p.
st.
sul pont.
crini
col legno
crini
col legno→crini
al tallone
ff
pp
mf
fff
flautando
sul pont.
flautando
sul pont.
sul tasto
col legno
crini
col legno crini
col legno
mf
f
pp
f
mp
mf

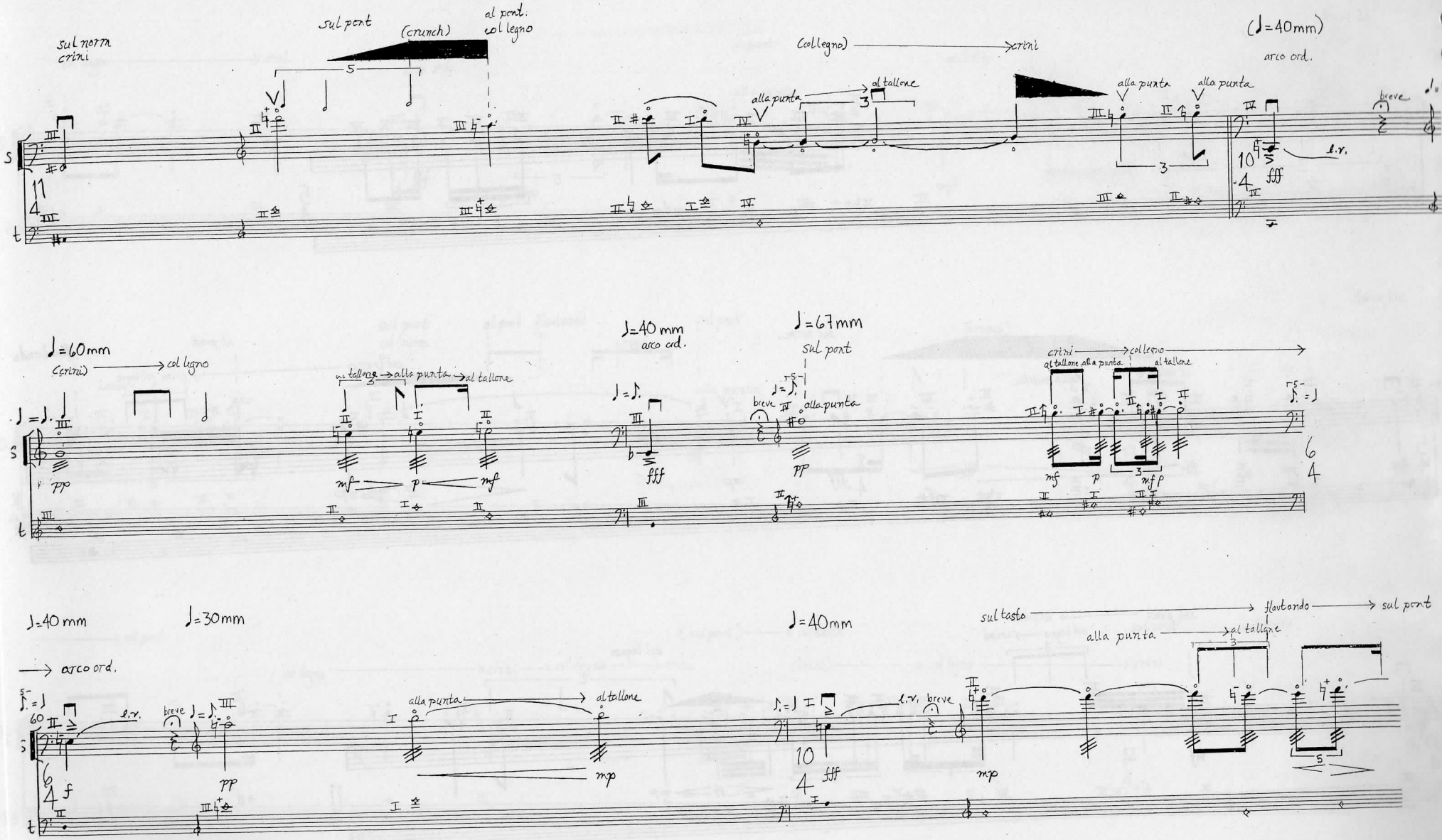

al pont
crini
sul tasto
col legno
crini
sul pont
sul tasto
sul pont
ppp
ff
mf
p
(p)
ff
pp
sul tasto
col legno
crini
col legno
crini
Sul pont
col legno
mp
pp
ff
mp
pp

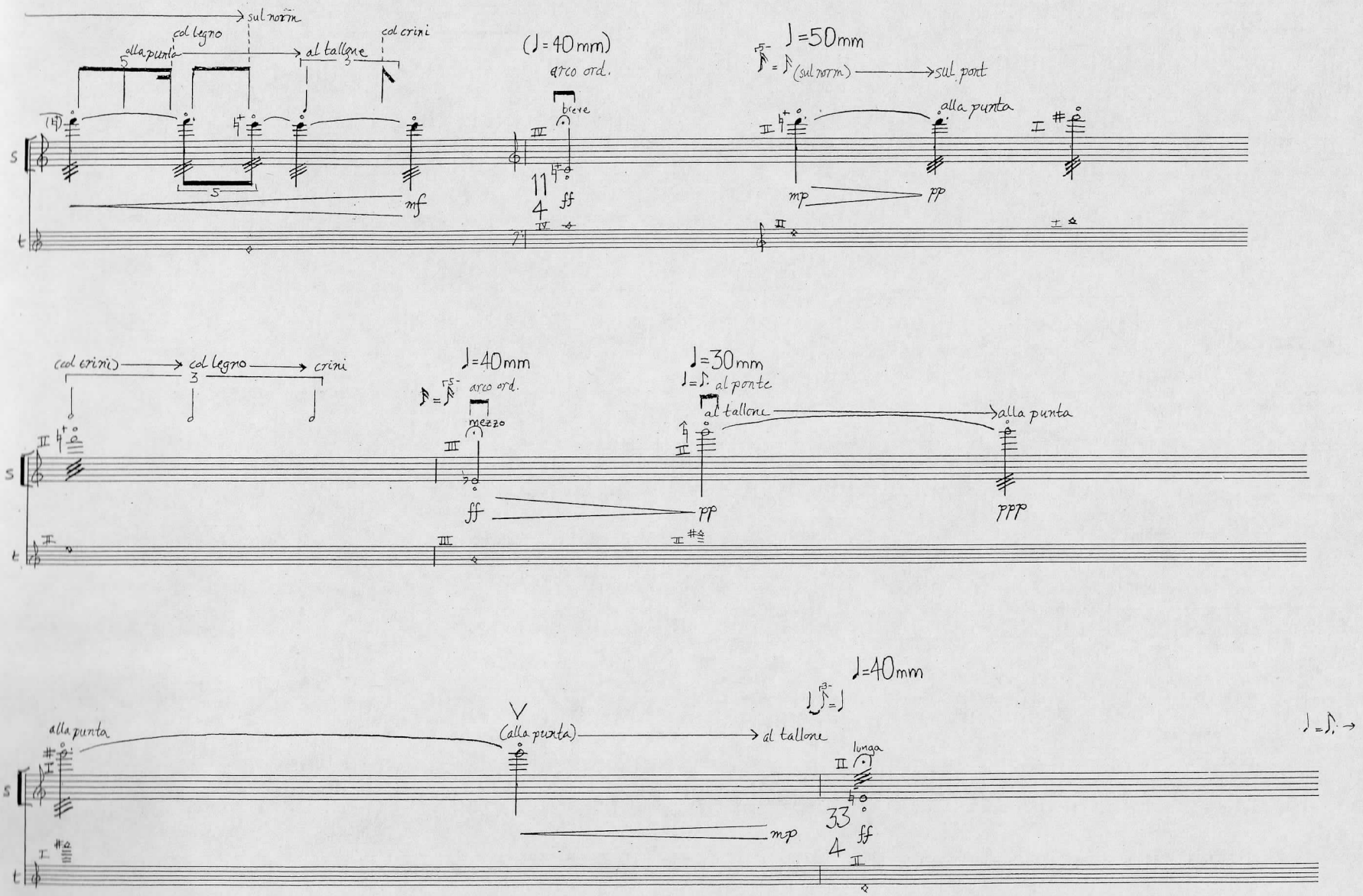

(♩=40mm)
al ponl
→ crini
sul tasto
(s.t.) → s.p.
crini → col legno
(crunch)
al tallone
alla punta
ppp
fff
mp
cresc.
mf
sul tasto
(s.t.) → s.p.
norm
crini
sul pont
col legno
crini
crini → col legno
sul tasto → sul pont,
crini → col legno → crini
al tallone → alla punta
(crunch)
al tallone
fff
mf

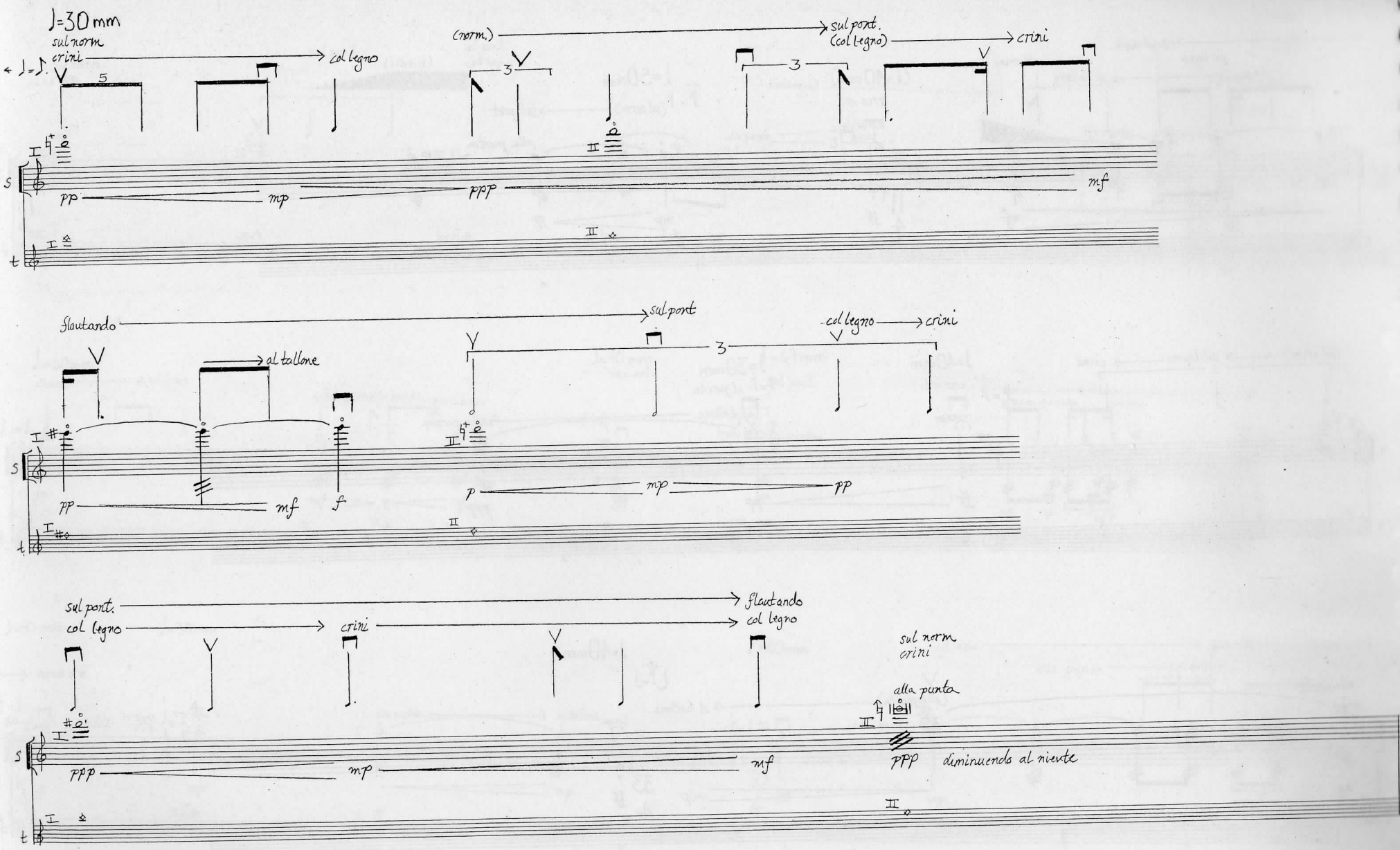

(crunch)
sul tasto
crini
sul pont
col legno
crini
arco ordinario
col legno
alla punta
al tallone
alla punta
50
19
4
fff
ppp
mp
(ossia)
sul norm
(crini)
col legno
(crunch)
(norm)
sul pont
(col legno)
crini
fff
mp
(ossia: continue on same touch points)
col legno
alla punta
ppp
(sul pont)
norm
(col legno)
crini
f
pp
sul tasto
al pont.
crini
mp
13
4
fff
l.v.
mp
sim.
mf
sim.
pp


col legno
crini
arco ord.
al ponte
alla punta
col legno
sul ponte
crini
fff
ppp
mf
sul ponte
col legno
al ponte flautando
crini
sul ponte
alla punta
(crunch)
sul tasto
fff
p
sul ponte
col legno
crini
col legno
crini
(sul ponte)
sul tasto
(crini)
col legno
crini
sul ponte
sul tasto


al pont
sul pont.
sul norm.
al pont.
flautando
col legno
crini col legno crini
al tallone
alla punta
sul norm.
sul pont
al pont
col legno
crini
col legno


sul norm
crini
sul pont
(crunch)
al pont.
col legno
(col legno) → crini
(♩=40mm)
arco ord.
alla punta
al tallone
alla punta
alla punta
breve
l.v.
fff
♩=60mm
(crini) → col legno
pp
al tallone → alla punta → al tallone
mf
p
mf
♩=40 mm
arco ord.
fff
♩=67mm
sul pont
breve
alla punta
pp
crini → col legno
al tallone alla punta
al tallone
mf
p
mf
p
♩=40 mm
→ arco ord.
♩=30mm
f
breve
pp
alla punta
al tallone
mp
♩=40mm
l.v.
breve
fff
sul tasto → flautando → sul pont
alla punta → al tallone
mp


sul norm
col legno
alla punta
al tallone
col crini
(♩= 40 mm)
arco ord.
breve
♩=50mm
(sul norm)
sul pont
alla punta
mf
ff
mp
pp
(col crini)
col legno
crini
♩=40mm
arco ord.
mezzo
♩=30mm
al ponte
al tallone
alla punta
ff
pp
ppp
♩=40mm
alla punta
(alla punta)
al tallone
lunga
mp
ff
♩=♪.


♩=30 mm
sul norm
crini
col legno
(norm.)
sul pont.
(col legno)
crini
pp
mp
ppp
mf
flautando
sul pont
col legno
crini
al tallone
pp
mf
f
p
mp
pp
sul pont.
flautando
col legno
crini
col legno
sul norm
crini
alla punta
ppp
mp
mf
ppp
diminuendo al niente