

DANIEL A. SENN

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"STAK RAKU" BY DANIEL A. SENN

"Stak Raku" (pronounced stak rakū) is a dance, theatre, vocal and percussion piece that is performed by four "tapping" dancers and two technicians within a prepared 4-channel sonic kiln. It is a continuous piece divided into two main sections; a PRE-CURTAIN section that is initiated 6 minutes prior to the beginning of the program or close of the intermission, and a POST-CURTAIN section which begins following the CURTAIN and continues for 10 minutes. These two sections are separated by a buffer called the CURTAIN which serves to accomodate any variables in the given transitional directives. The duration of the piece is approximately 15 minutes. Performances of "Stak Raku" will require the facilities, apparatus, personnel and rehearsal conditions alluded to during the PRE-CURTAIN dialogue.

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INSTRUMENT CONSTRUCTION	
PRE-CURTAIN VISUAL SCORE	-135(
POST-CURTAIN VISUAL SCORE	+0 - 600

Score Related and Rehearsal Paraphanalia:

PRE-CURTAIN Rehearsal Slides (4 sets)

POST-CURTAIN Rehearsal Slides (4 sets)

POST-CURTAIN Rehearsal Cassette Aural Scores (4 sets)

PRE-CURTAIN Rehearsal Cassette Aural Scores (4 sets)

Black-White Technician's Score

Four-Channel Tape (15 ips)

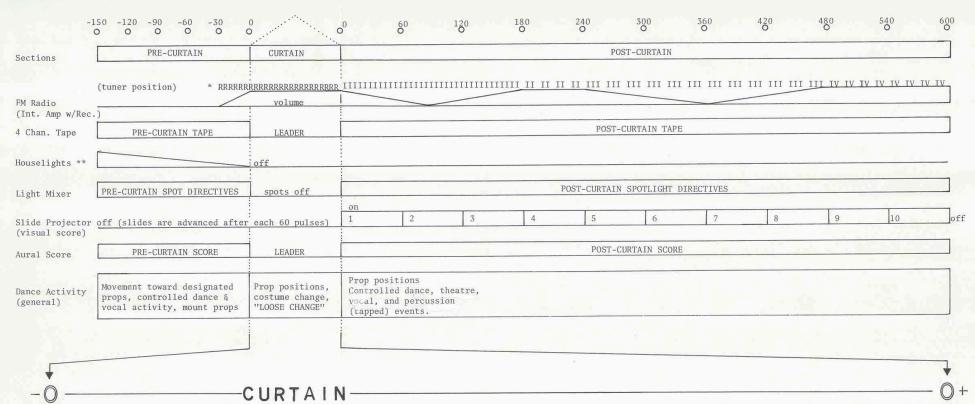
For related materials send to: Daniel A. Senn, 505 S. Sixth St., Watertown, WI 53094

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aural environment prepared 4-channel tape I-105, 2 aural score 4,6 costuming 2 curtain section 2 dance activity PRE-CURTAIN 4 POST-CURTAIN 5,6 Red condition 4 rehearsal II-105, 5, IV-105, I-60, IV-30 envelope and phase durations 5 envelope initiation 4 facial gestures 5 FM transmitter 3 instruments 8, IV-120, III-105 resonators I-120, 8 integrated amp with receiver 2, 3 "Loose change" 2 notation cuing II-45, III-75 percussive 5 POST-CURTAIN 6 PRE-CURTAIN 5 timbral 4 performance conditions I-135, I-90, III-90 seating areas II-135 "post" POST-CURTAIN section 2, II-60 prop positions 3 platforms III-120 rate and power parameters 6 technicians (I and II) 3 vocal loops 5

wireless microphone 3

PERFORMANCE DIAGRAM



DURATION OF CURTAIN TIME (20 seconds)

The exact duration of this buffer zone will depend on the amount of time needed for the costume change.

"LOOSE CHANGE"

During the CURTAIN interlude, as a by-product of the costume change, an inordinate amount of coinage (pennies, washers) should be purposefully spilled onto the platform surface.

PRE-CURTAIN AND POST-CURTAIN COSTUMING

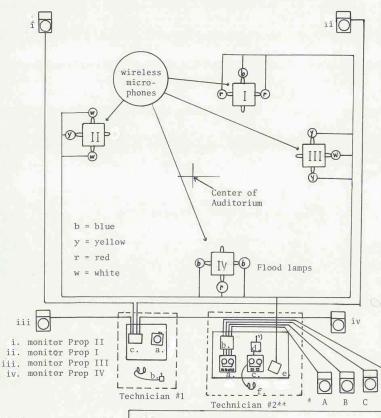
In addition to tap dance shoes that are worn throughout "Stak Raku," the POST-CURTAIN section will be performed in long cotton underwear. Because minor alterations can be made in this apparel (such as trimming the pant-legs or shirt sleeves so as to remain inconspicuous beneath the PRE-CURTAIN costume), the PRE-CURTAIN costumes can be arbitrarily chosen from the conventional styles of the attending audience. Beyond this, other than the fact that the costume change must take place in darkness, the primary consideration has to do with the limited amount of time given for the change. Once the performers have reached their designated props (and the houselights have diminished substantially) they may initiate the costume change.

- * R=Random sampling of frequencies I=Monitor signal coming from Prop I instrs. TI=etc.
- ** Main circuit dimmer switch is required.

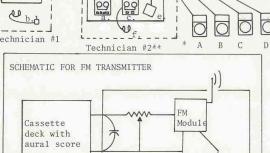
"POST" POST-CURTAIN

After the spots have been darkened, the transition to the next concert piece may be handled several different ways. If the concert format inalterably calls for an immediate resumption of the houselights, the performers should change to their PRE-CURTAIN apparel under a veil of darkness lasting about one minute before taking a convenient auditorium seat. If this is not the case, the performers may leave covertly or disappear.

Projection Screen



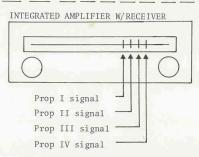
- * These speakers will be dispersed evenly throughout an unoccupied balcony or lobby area. (Doors separating the auditorium and lobby area should be kept open.)
- ** Technician #2 located outside performance area.



DC Power Sup.

TECHNICIAN #1

- a. Slide projector containing visual slide scores.
- b. FM radio equipped with earphone used to monitor dance aural score. Infor from this score is needed to advance slides at the 60 pulse increments.
- c. Integrated amp with FM receiver amplifying 4 signals received from 4 wireless mikes placed beneath props (between instruments). The frequencies of the wireless mikes must be clustered so as to overlap each other. The sequence of these settings will correspond to the primary prop sounds being monitored.
- d. These speakers will monitor the mono signal received from the integrated amplifier.



TECHNICIAN #2

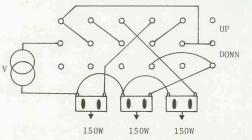
- a. Four channel tape monitored over speakers A, B, C, D.
- b. Pre-amplifier, amplifier.
- c. Dance aural scores (cassette deck).
- d. Single frequency transmitting station broadcasting aural score to dancers.
- e. Tailored light mixer operating 12 150W auditorium spots.
- f. Headphones used to monitor aural score. Info from these scores is needed to operate the light mixer during PRE-CURTAIN SECTION.

PRE-CURTAIN SPOTLIGHT DIRECTIVES: Technician #2 will be equipped with a monitoring device that is tapping the aural score being tansmitted to the dancers, and a black and white copy of the PRE-CURTAIN and POST-CURTAIN visual score. The horizontal elipses should be matched with the elipses appearing on the diagram above at the given level. When a "Tourguide" character appears, all lights at that level should be off. All lights will be off during the CURTAIN section.

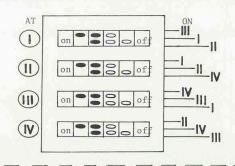
POST-CURTAIN SPOTLIGHT DIRECTIVES: Each vertical line that encloses a percussive event's time allotment will cause a random change in the order of lights coming from the corresponding prop. The all-lights-off position is reserved for periods when these rectangular barriers are absent.

LIGHT MIXER SCHEMATIC

(one of four 6-station interlock 4 amp switches)



LIGHT MIXER



PRE-CURTAIN DIRECTIVES FOR DANCERS

DANCE ACTIVITY: This section utilizes the "mingling" characteristics of a recessed audience and therefore begins five minutes prior to the end of a traditional concert intermission. Because of the four-coordinate notation cueing the dance directions, the dancers will often be moving over, standing on, and sitting upon the objects which fill the auditorium seating area. All these activities will be coordinated by single track aural score (read CONTENTS OF THE AURAL SCORE) being transmitted from a cassette machine

via a FM transmitter on a single frequency to portable FM radios equipped with earphones

covertly worn by each performer.

GENERAL: Each of the four dancers should select a system (LEVELS I, II, III, or IV). During the PRE-CURTAIN section the dance directives, relative to a designated prop (the number given a system relates to the number on a platform) and the vocal dialogue, relative to the timbral cues (read TIMBRAL NOTATION), must be memorized as they are affected by the existing color code (read CHARACTER NOTATION).

TIMBRAL NOTATION

CHARACTER NOTATION

intone text	intone text with regard to treble clef intervals
spoken	whispered
mute or mouth text	absence of cues

	mouth text	absence of cues	
sound which will		rformer has a specific timbral given in the visual score. Th given below.	

DANCER	CUE
ı	high frequency "pop"
-00	high frequency sine tone
000	amplitude modulated square wave
IV	low frequency "boom" with reverb

COLOR CODE	AFFEC- TION	AFFECTED TEXT AND FACIAL GESTURE				
BLACK	Hate	Spiteful, Haughty				
RED*	Pain	Mournful, Sobbing				
GREEN	Joy	Cheery, Sparkling				
WHITE Control-		Militant, Humorless				
ABSENCE OF CODE		Typical Tour-Guide				

DANCE DIRECTIVES

WRITTEN CUE	MOTION
FORWARD	Directly towards designated prop
UPWARD	Upward Stretching
LATERAL	Circle designated prop laterally
DOWNWARD	Sit
STOP	Stop or freeze arm and leg activity

PRE-CURTAIN STARTING POSITIONS: These initial positions may be found by backing up from the point in the score where the prop is finally mounted to the first cue. Where you land is where you start.

*RED CONDITION FOR DANCE: While in the red mode, the image of being suddenly attacked by African honey bees should be used to guide the dance activity.

5

POST-CURTAIN DIRECTIVES FOR DANCERS

GENERAL: Each dancer is to individually organize and memorize four envelopes of activity based on the conditions given in this section (black, red, green, white). Each envelope will contain percussive (tap danced), vocal (vocal loops), theatre (facial gestures) and dance elements that are present in varying degrees over the duration of the envelope which is divided evenly into two phases (see PHASE MODULATIONS). Though the particulars of each envelope will differ, the procedural manner will be the same for all four. Once this manner is understood, (that is, the logic that is used to coordinate the above elements), the affects of the color modes upon these elements may be applied. At first, four rudimentary envelopes should be assembled relative to the macro-conditions and the game conditions given in this section as well as those alluded to during the PRE-CURTAIN dialogue. These envelopes in their simplest forms can then be used to paint the score within the vertical time barriers.

ENVELOPE AND PHASE DURATIONS: The four macro-envelopes are determined by the longest duration of each color within each level. Each envelope is divided evenly into two phases. These durations are charted below:

PERFORMER	MODE	1ST PHASE	2ND PHASE	TOTAL
	BLACK	6u	6u	12u
I	RED	5.5u	5.5u	11u
+	GREEN	4u	4u	8u
	WHITE	12u	12u	24u
	BLACK	5u	5u	10u
	RED	7.5u	7.5u	15u
II	GREEN	18u	18u	36u
	WHITE	11.5u	11.5u	23u
	BLACK	11.25u	11.25u	22.5u
	RED	5u	5u	10u
III	GREEN	7u	7u	14u
	WHITE	7.5u	7.5u	15u
	BLACK	12.5u	12.5u	25u
	RED	14.5u	14.5u	29u
IV	GREEN	5.5u	5.5u	11u
	WHITE	8.5u	8.5u	17u

AN ARBITRARY PHASE MODULATION: The change from one phase to another may occur over the entire envelope, $% \left(1\right) =\left\{ 1\right\} =\left\{$

Example:

abruptly,

Second phase

First phase

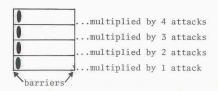
Second phase

First phase

or somewhere in between these extremes.

ENVELOPE INITIATION: The appearance of a vertical barrier enclosing a percussive event, or a change in the affection color mode will always trigger the beginning of an envelope.

PERCUSSIVE (TAP) NOTATION



THE EMERGENCE OF A PERCUSSIVE EVENT: Though the exact position of an event is not given, it must appear in a single cluster somewhere between the vertical time barriers. This frequently offers the performer a choice of modes in which to perform. Once an event (percussive + vocal) is initiated any modal changes may be ignored until it is complete.

THE ABSENCE OF THE PERCUSSIVE NOTATION: When the rectangular lines encompassing the percussive symbols are not present (though the modal aspects are continuously present throughout) the performer should cease all dance activity immediately. Facial gestures are not considered to be a part of the dance elements here and should continue to operate relative to the existing mode. During these periods the loop sequence is delayed and therefore does not affect the facial gesture.

A CONDITIONAL THIRD PHASE: This level is operative when the time needed to fulfill the notated parameters is insufficient. When this occurs, the percussive parameters will receive the highest priority. (As many attack units as is possible should be performed before the allotted time expires.)

VOCAL SOUND SOURCE: "Loops" constructed from the name of each performer will determine the vocal sounds and their order of appearance.

Example:

Except for the boxed in sounds which represent an absence of the vocal effects (hard consonants) these sounds would be looped continuously throughout the POST-CURTAIN section.

THE EMERGENCE OF A VOCAL EVENT: The vocal sound should be internalized immediately until a percussive event is initiated. A vocal event may appear at any point during a percussive event.

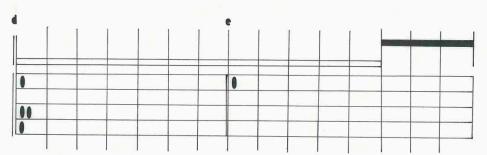
THE AFFECT OF THE VOCAL INFORMATION ON FACIAL GESTURES: An exaggerated version of the facial configuration needed to form the given vocal sound should immediately appear on the performer following the aural and visual cue. Because the given sound will often be internalized, only during the conglomerate event will the facial gesticulation be accompanied by the sound.

DANCE ACTIVITY: The feet of a dancer can move only when a percussive event is being executed. Except for the periods when the rigid state (see THE ABSENCE OF THE PERCUSSIVE NOT-ATION) is in effect, the portion of the body above the balls of the feet is to move as though the feet are free. Upon completion of a percussive event, the last foot position of that event or gesture is to be held until the next percussive event.

IMPORTANT: Whenever the percussive event barriers are absent, all dance activity will cease causing the body to become rigid. Only facial gestures are exempted from this condition.

UNCONTROLLED RATE AND POWER PARAMETERS: The rate and power in which a vocal, percussive, and dance event is generated is left to the performer except in situations described in "A CONDITION THIRD PHASE."

POST-CURTAIN AURAL SCORE CONTENT: This aural score contains forty fifteen pulse sequences with page-by-page verbal cues that correspond to the position (1, 2, 3, or 4) in the visual (slide) score.



a. beginning of white envelope is triggered

b. beginning of white envelope triggered

 beginning of black envelope triggered

d. & e. percussive event barriers

DANCE	phase I, white dance activity foot motion	phase I, white dance activity	phase I, black foot motion
THEATRE	phase I, white facial gesture as affected by vocal sound	white mode, phase I facial gesture as affected by vocal sound	black mode, phase I, etc.
VOCAL	internalized /externalized vocal vocal sound as affected by the white mode	next vocal sound internalized	sound exter- nalized in white mode, phase I
PERCUSSIVE	/ 13 attack percussive event emerges as affected by white mode in phase I		/4 attack perc. event emerges as affected by black

POST-CURTAIN PARTICULARS:

COLOR CODE	AFFECTION MODE	GENERAL First Phase	AFFECTS Second Phase	EFFECT ON PERCUSSIVE EVENTS First Phase Second Phase		EFFECT ON S First Phase	POKEN EVENTS Second Phase	EFFECT ON THEATRE AND DANCE EVENTS First Phase Second Phase		
BLACK	Hate	Aggressive Hate	Aggressive self-	Erratic, heavy attacks, very loud		Short erratic bursts, very loud		Fighting gestures	Fighting gestures directed at self	
RED	Pain	Extreme mental pain	Extreme sensuous pain	Somewhat erratic soft to medium loud attacks	Steady soft attacks	Mournful, medium	Loud, sensuous	By-product of other parameters		
GREEN	Joy	Child-like joy	Plastic joy	Rhythmic, full dynamic range used Vaudeville-like (lead-in or prepara- tory beats are note considered attacks)		Child-like laughter	Cheery, saccharine	By-product of other parameters		
WHITE	Controlled	Military-like	Rigid hysteria	Strict subdivision of attack units at moderate rate, mf)	Absence of sub- division, frenetic attacks, ff	"Snappy," as giving an order	Shrill, hysterical	Military gestures	Shaking rigidity	

PLATFORM CONSTRUCTION

The basic platform design consists of five leg supports, a chassis and the dance surface. The arrangement of the steel plates (given in INSTRUMENT CONSTRUCTION) differs for each platform.

SUPPORTS

There are two types of leg supports: four balance supports and one center support. The balance supports are constructed from two inch diameter fencing pipe (lower piece) and one and five eights inch diameter fencing pipe (upper piece). They are adjustable vertically at two inch increments and horizontally at four inch increments. A hydraulic bender can be used to turn the upper piece. Also, the end which enters the chassis should be hydraulically compressed to allow for a tight right angle fit.

CHASSIS

The chassis is constructed from two inch by four inch square tubing and consists of three lengths (one 48" pipe and two 23" pipes) bolted together at the center.

SURFACE

The dance surface is constructed from a 4' x 4' x 3/4" sheet of plywood (upper sheet) scabbed to a 4' x 4' x 1/4" sheet of plywood. The top sheet has four 9" diameter (beveled edges) circle removed in the proportions given in INSTRUMENT CONSTRUCTION. The lower sheet has a 3/4" hole placed directly in the center of the circle cut out of the upper piece.

CHASSIS-SURFACE INTERFACE

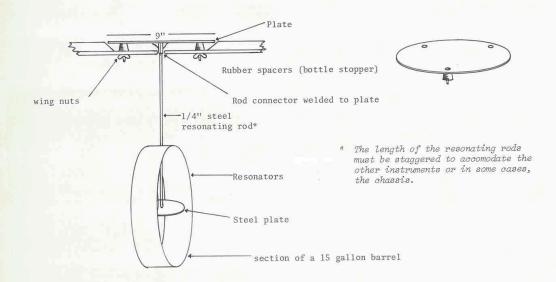
The chassis is separated from the surface by eight 1" (1/2" diameter) spacers (pipe connectors). The chassis and surface are drawn together by 7" x 3/8" bolts.





INSTRUMENT CONSTRUCTION

The basic instrument design consists of a steel plate, a resonating rod, and a resonator.



RESONATORS: The resonators should be designed to fit four timbral classes. Within each class, a development of the intrinsic materials relative to four clearly differentiated frequency levels, should be sought after. The highest pitched overall group of each set of four instruments will be considered class I and its parts then arranged beneath platform I. The second highest pitched under platform II, etc.

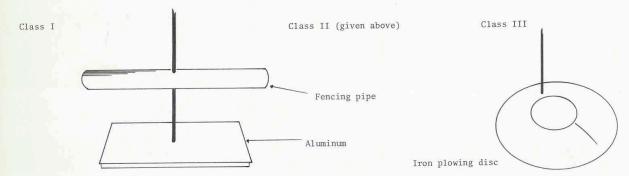
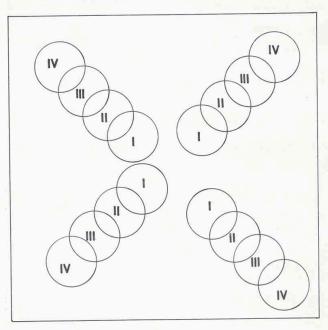
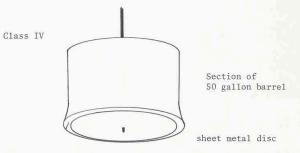


PLATE ARRANGEMENT



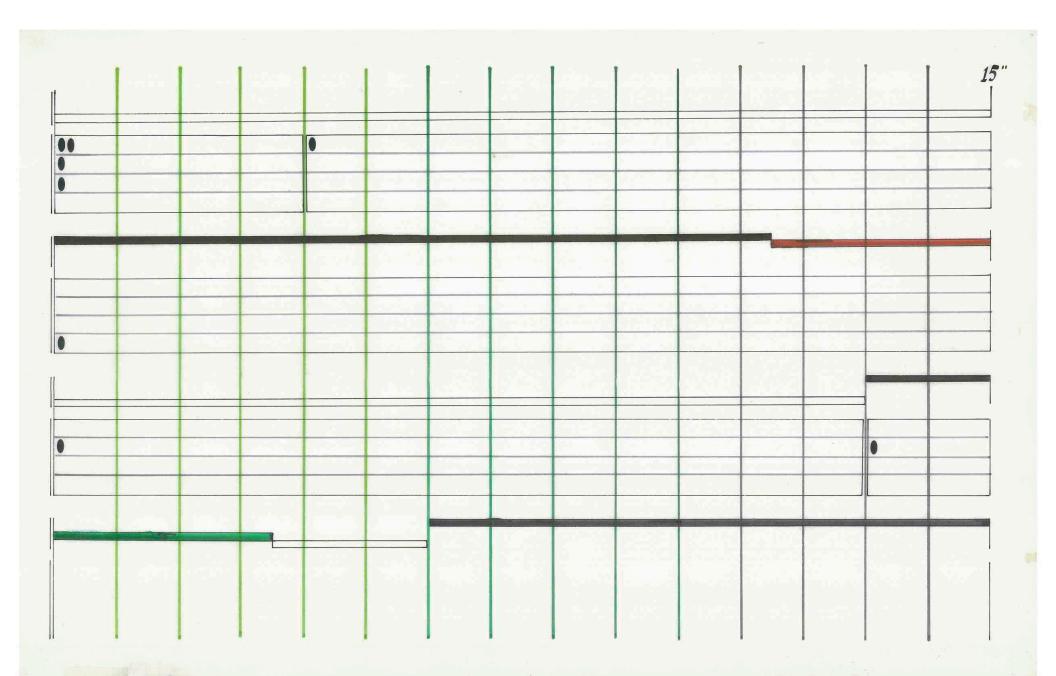


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									"Is it t	true that each p bbjects from fou	latform will rec r different timb	eive four reson ral classificat
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	STOP											
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			Forward									STOP
	10 To				THE PARTY							
			"Four platforms that ar these pedestals is 3/4 rests on a steel chassi	inch plywood	integrated	with 3/32 i	nch steel pla	are require ates. Each p	d. The domin platform is 4	ant surface mate feet by 4 feet	rial of and	"YES!" (next
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-		by the	prop will contain four e metal plated shoe of a th the platform."	9-1/2 inch c dancer, the	ircular ste sonic resp	el plates th onse is cond	at are reces itioned by v	sed in holes arious objec	cut out of th s suspended o	e plywood. When n 1/4 inch steel	struck	
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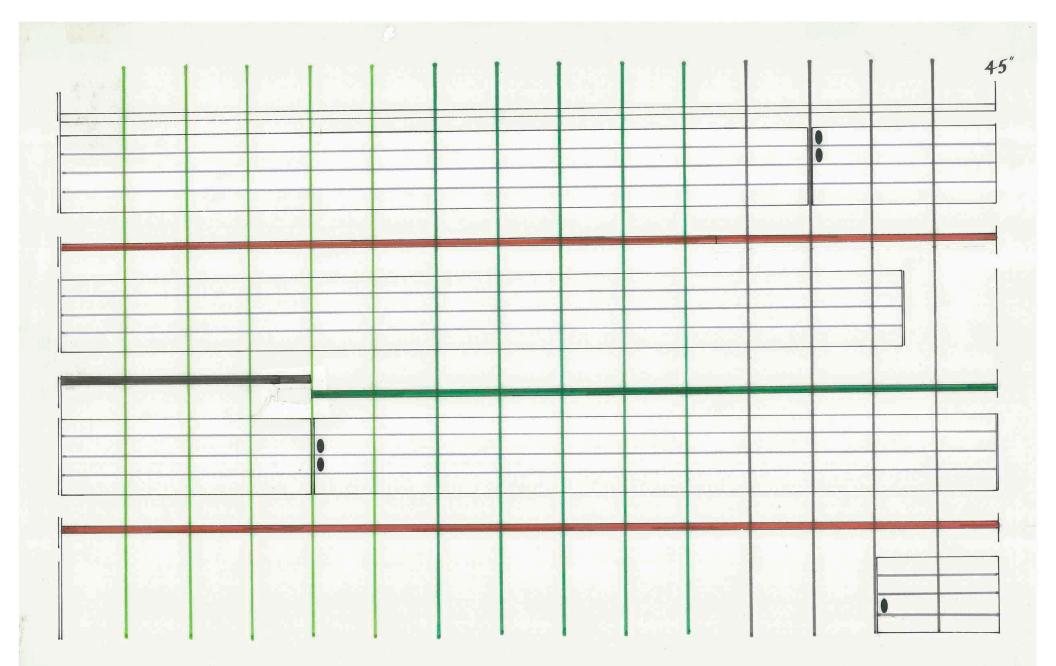
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for	e real-time and animately effected events of 'Stak this preparation is a human voice between the ag tion, and a post-curtain section."	Raku' will occur in an electronically prepared aural environment. ges of 18-27 years. These preparations come in two parts: a pre-c	The source curtain
	Lateral	Do	wnward
	"Each dancer will rehearse sepa will rehearse"	she a v	f performed outdoors, it buld take place during warm season between the hours of 9 and 11 p.m."
	Upward	Downward	Lateral
"A timbral class will contain a frequency spectrum of four clearly differentiated levels!"	"Will the dancers rehearse?"	"Though these sections run consecutively, the post-curtain sec prepared in advance of the pre-curtain section."	tion is
STOP		Upward Downward	,,,,,,,
"Those d	amned props aren't necessary! A dancer can rehe home by marking off a four foot diameter circle	arse "A four foot what?!" "Neither sections of nor the comp will be presented to the dancers performance setting."	

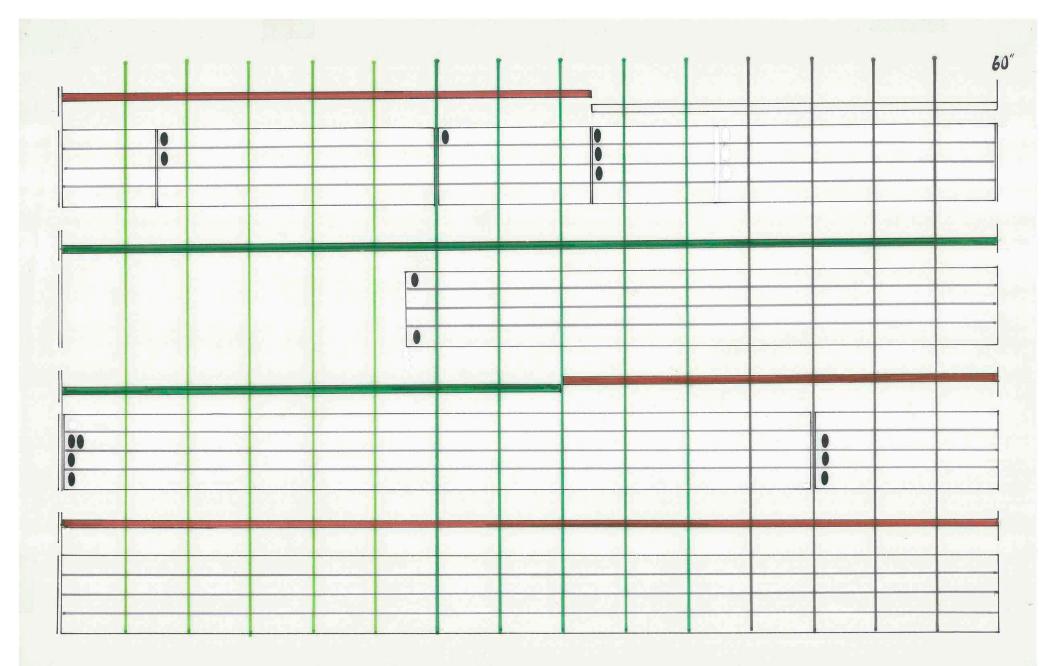
^{*} See pre-curtain and post-curtain four channel tape construction.

CURTAIN SECTION

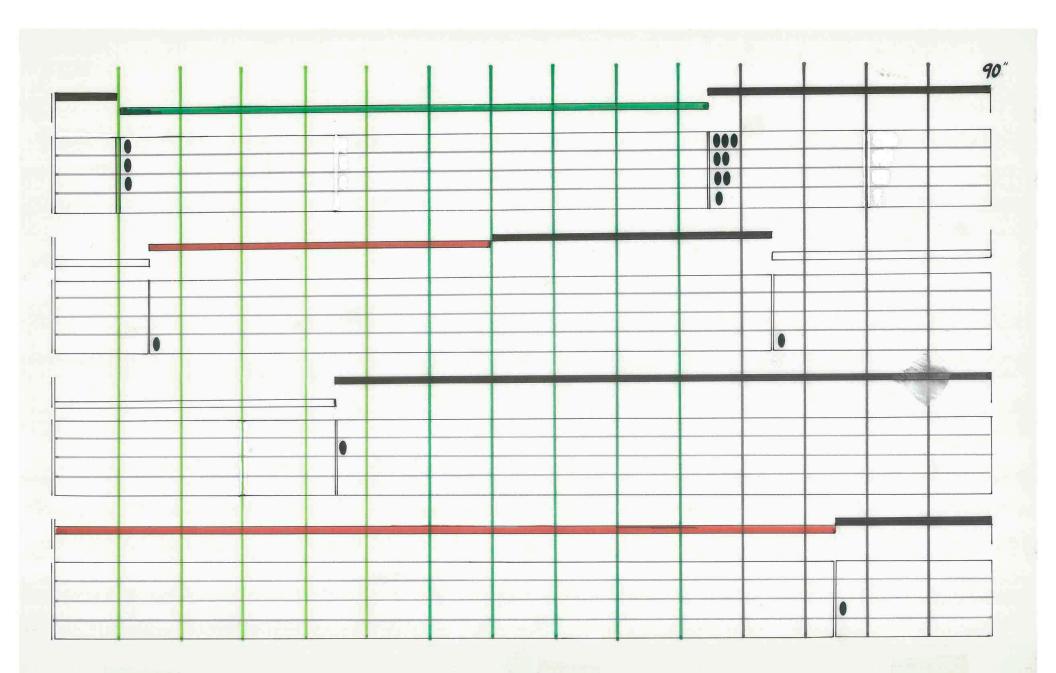


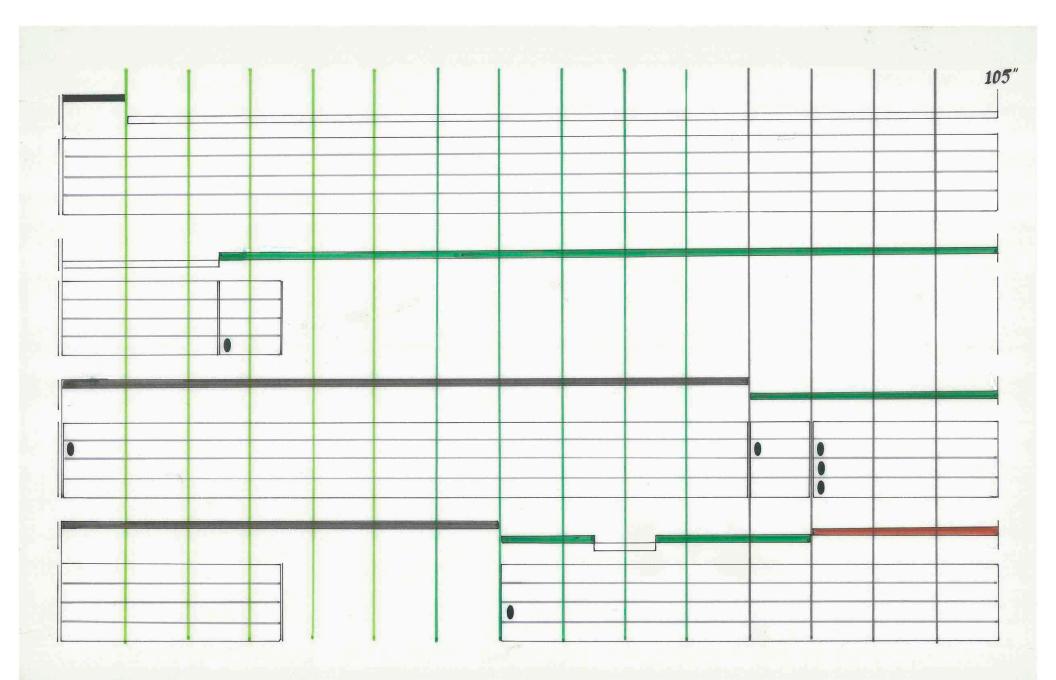
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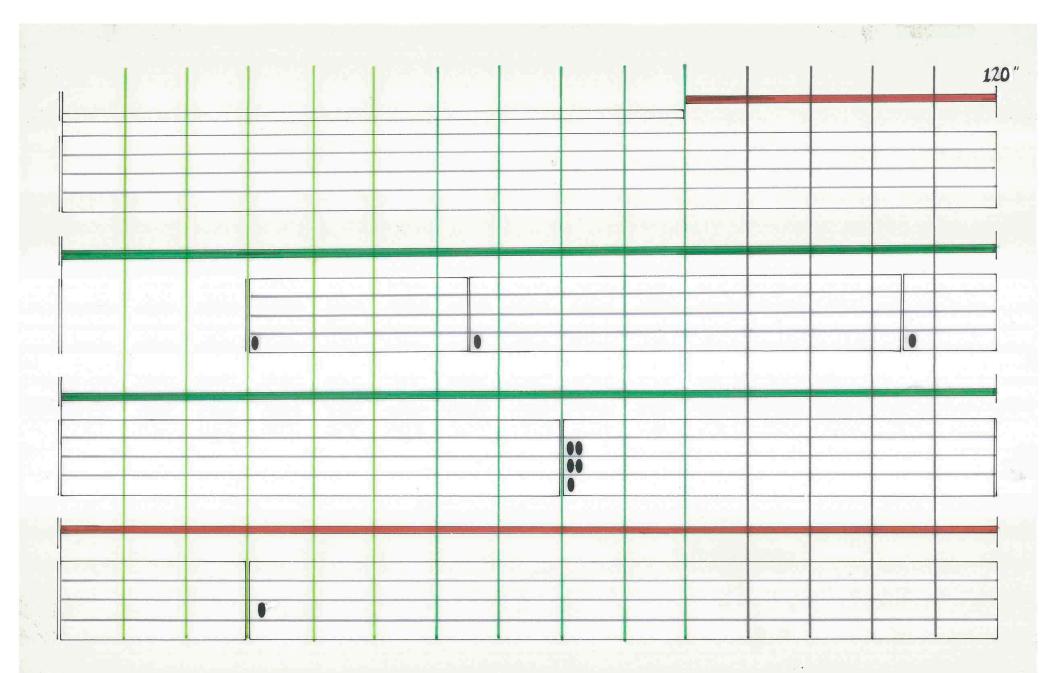


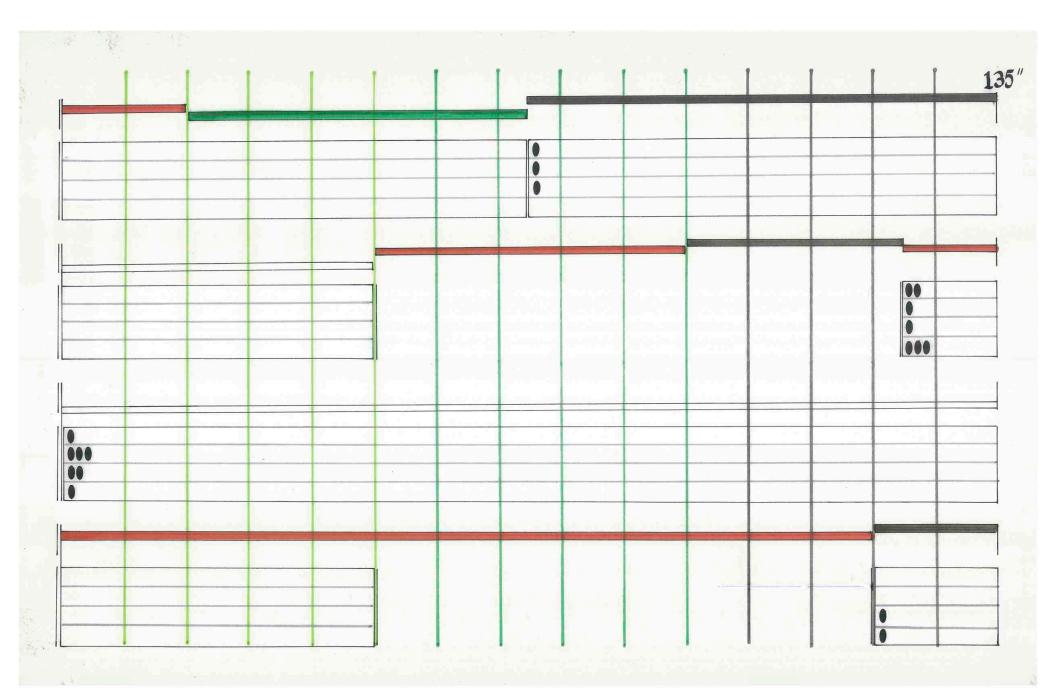


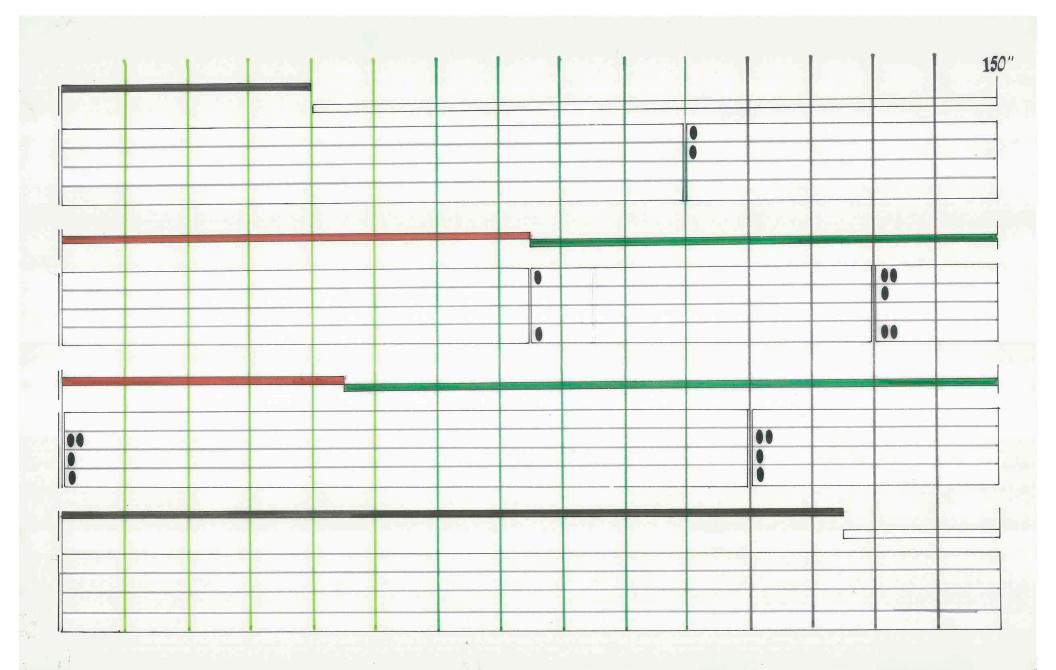
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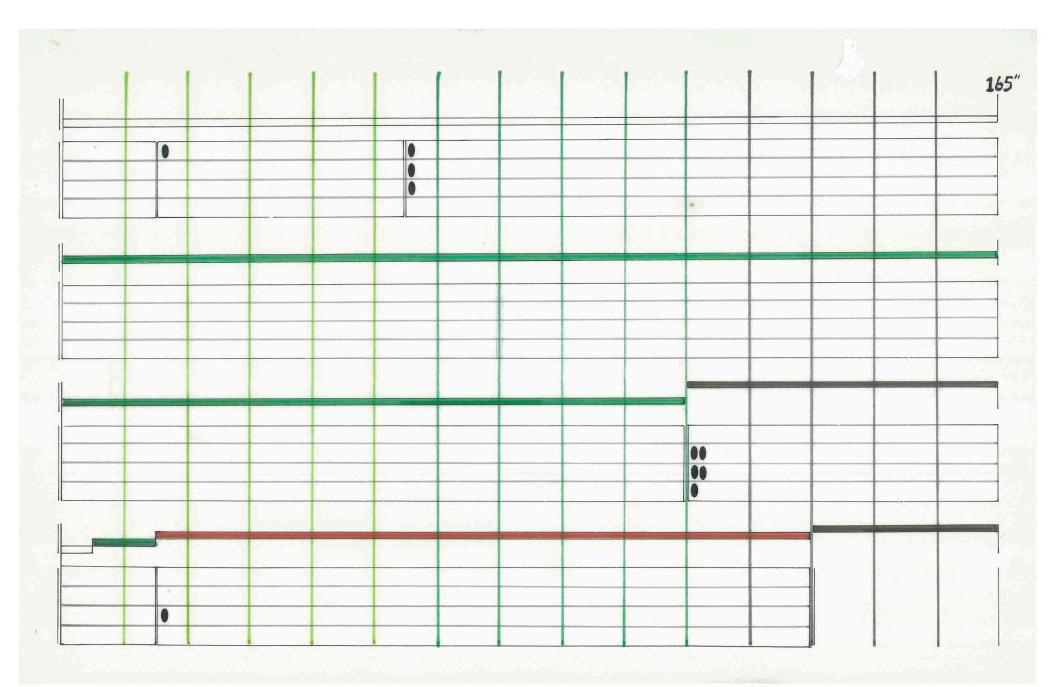


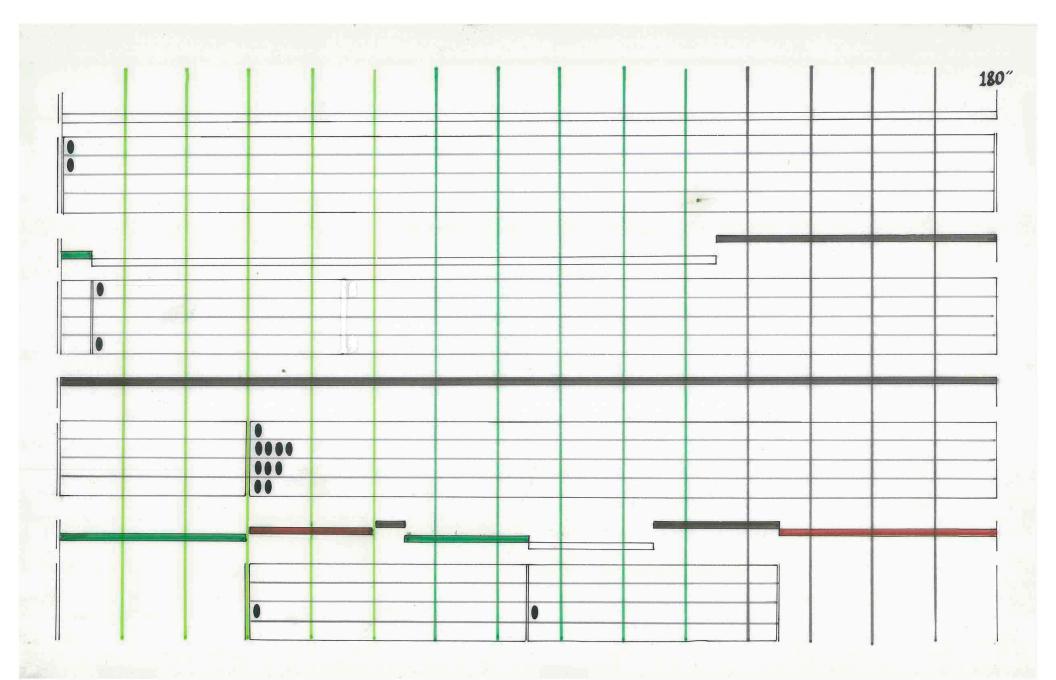


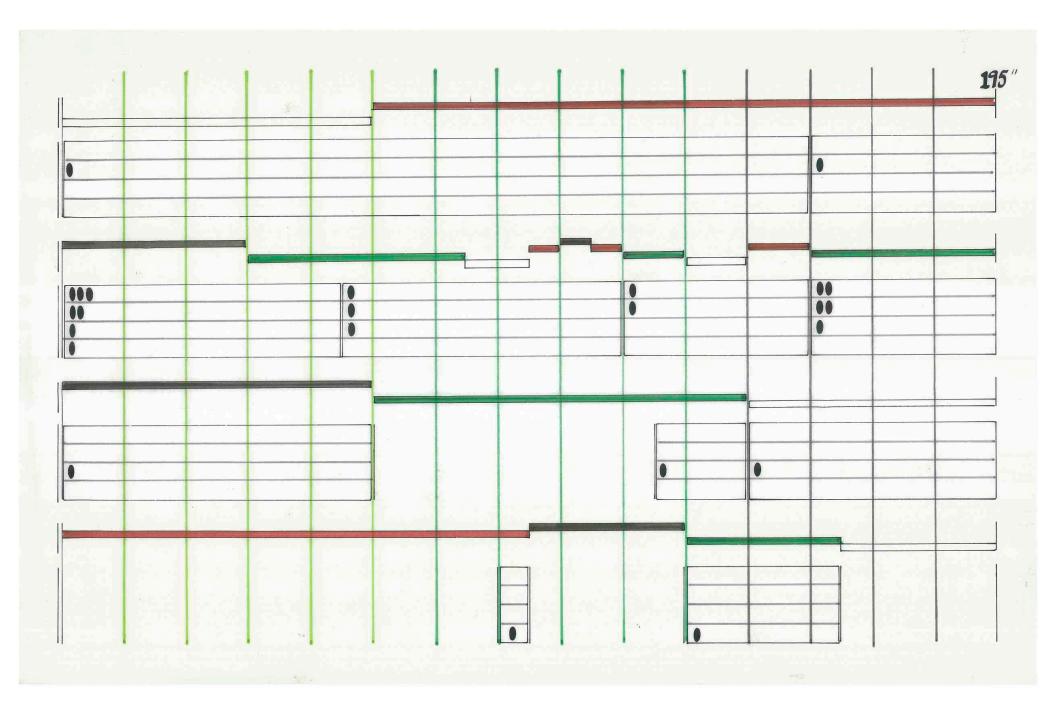


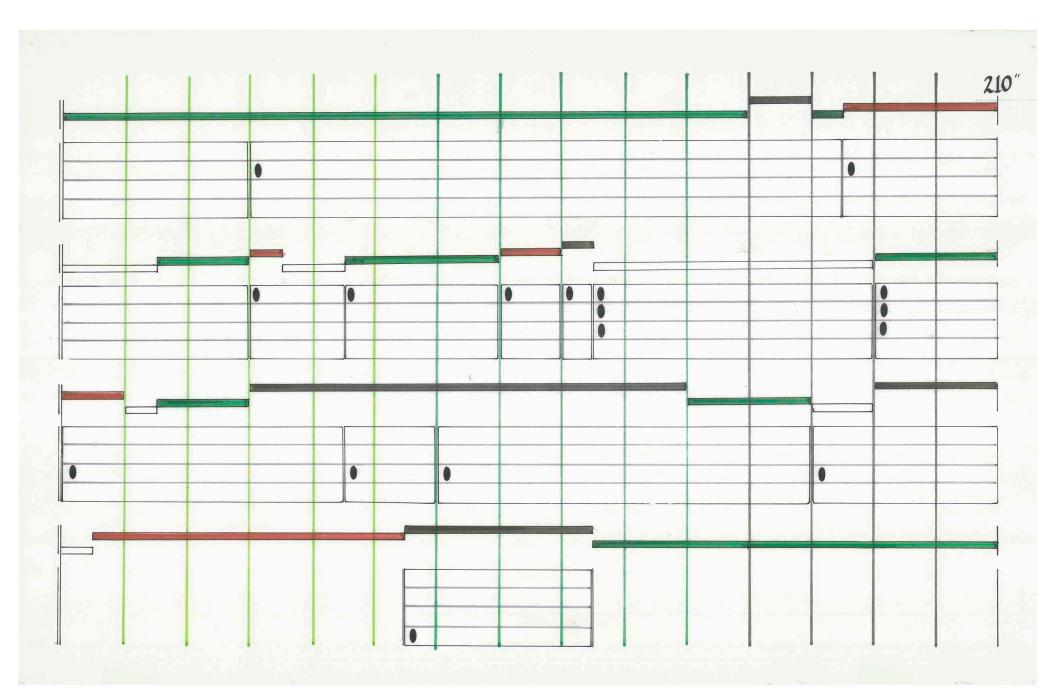


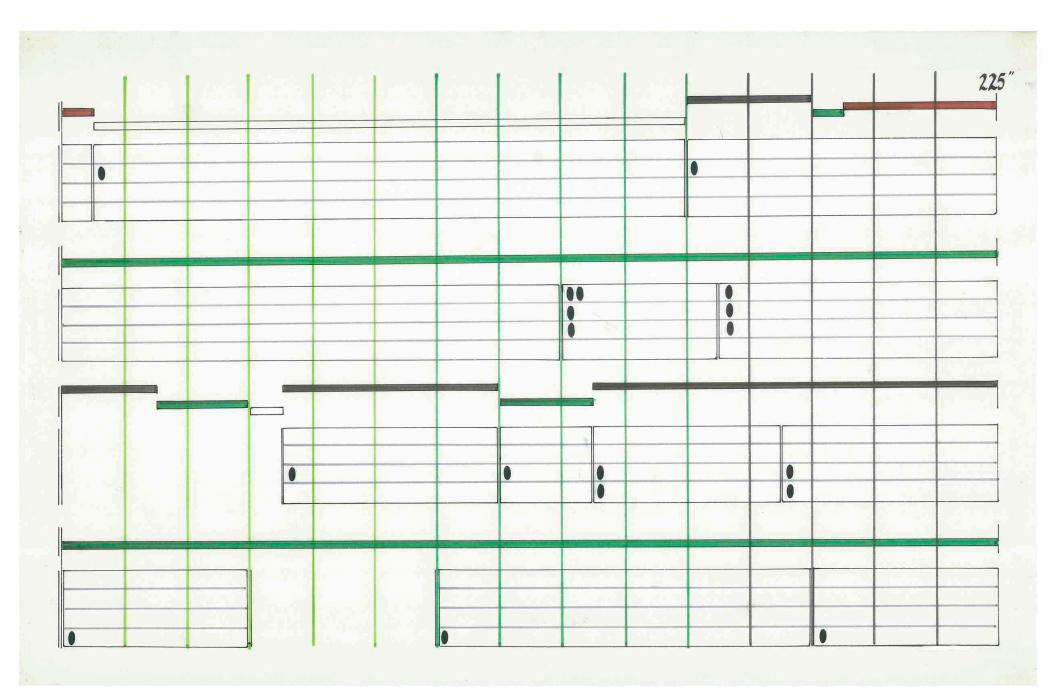


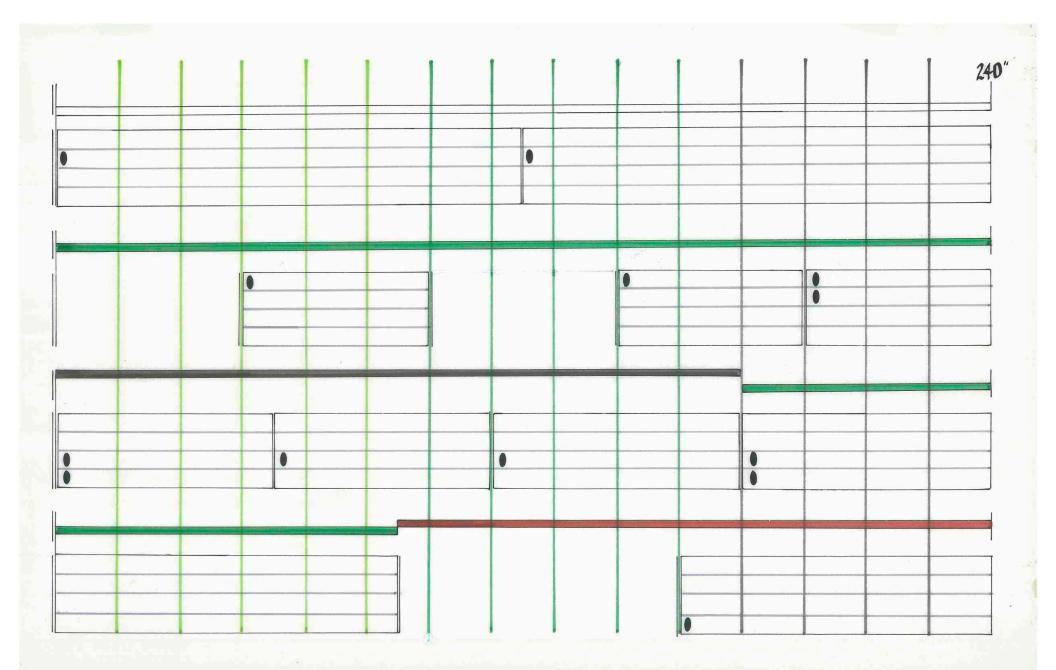


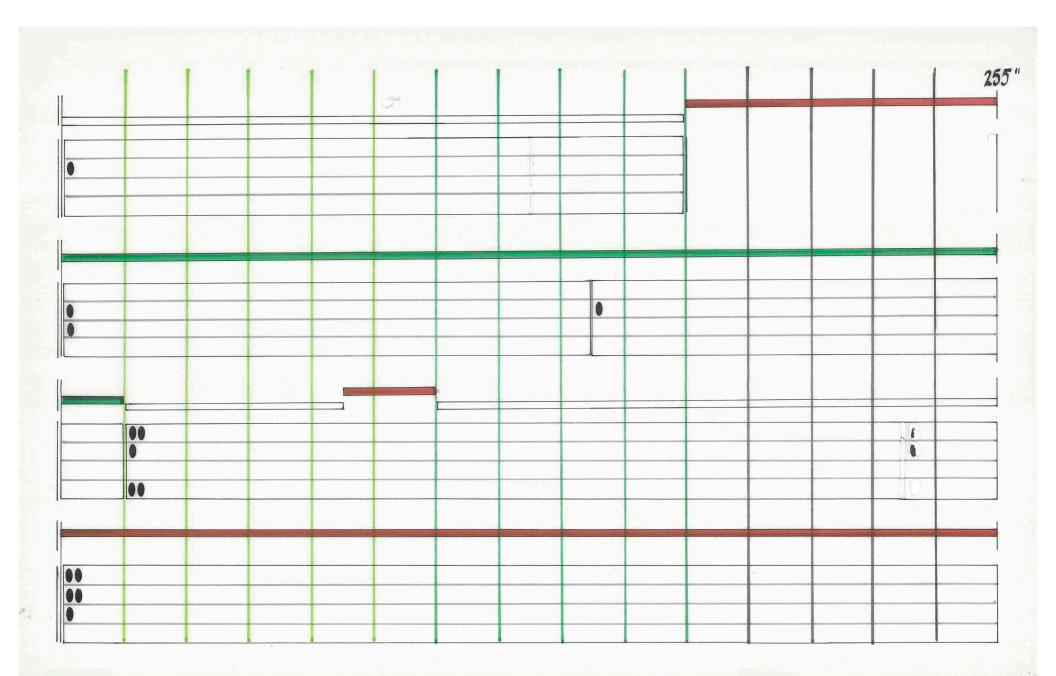


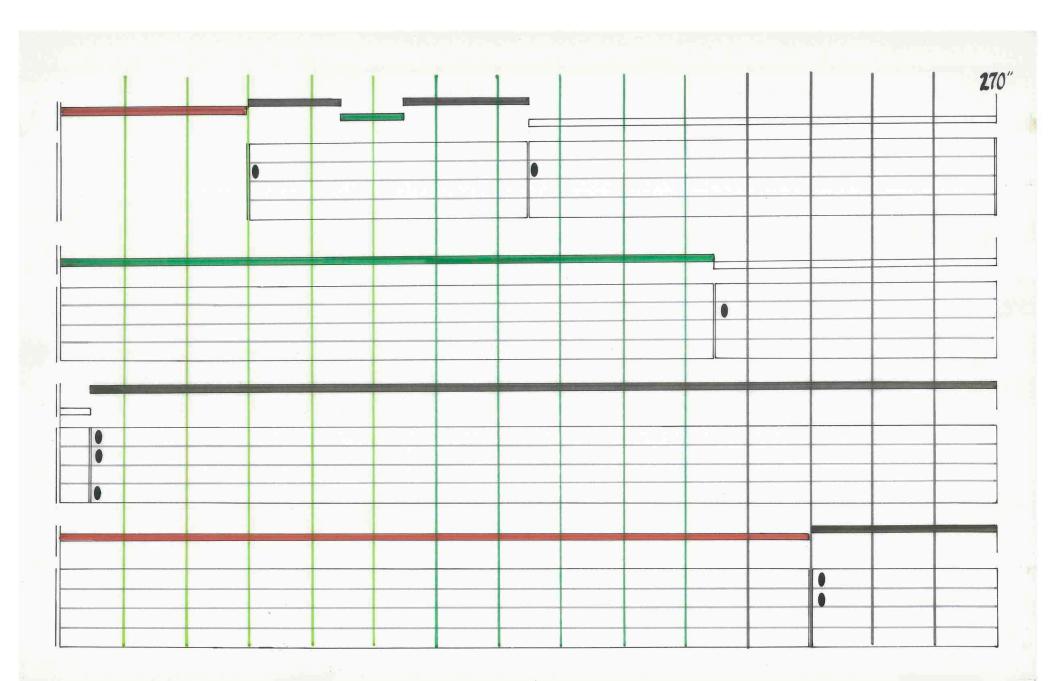






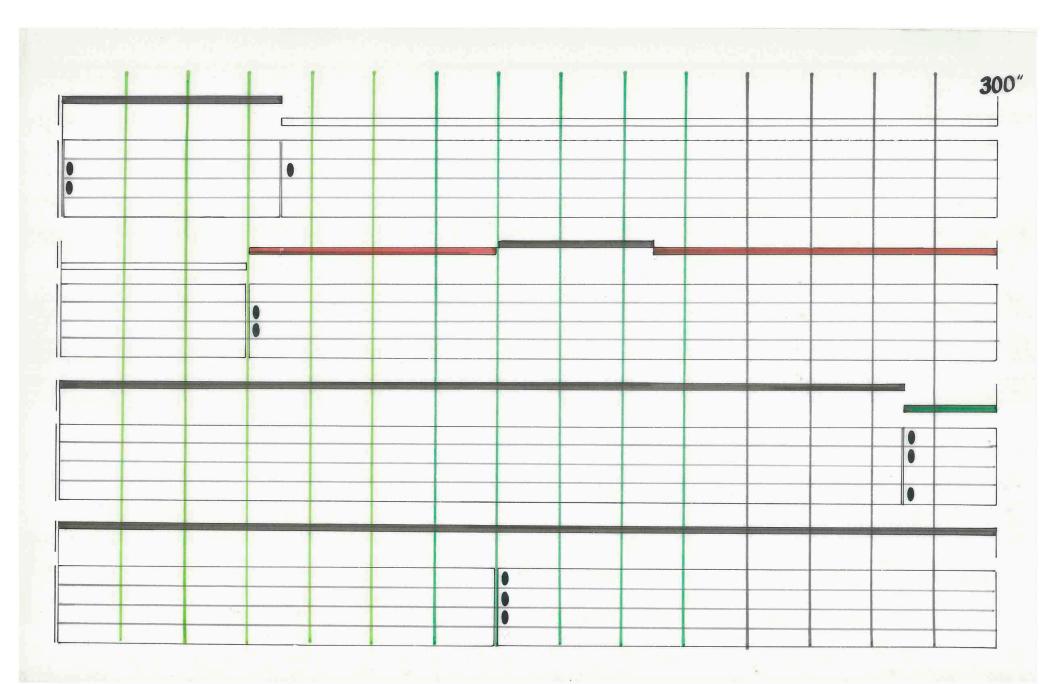


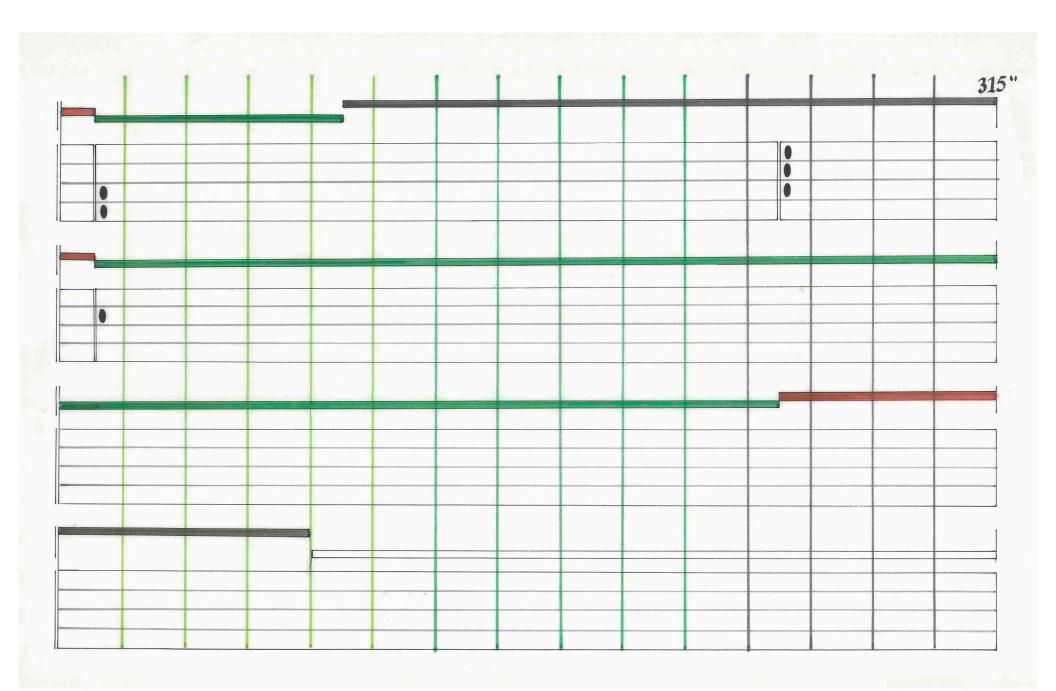


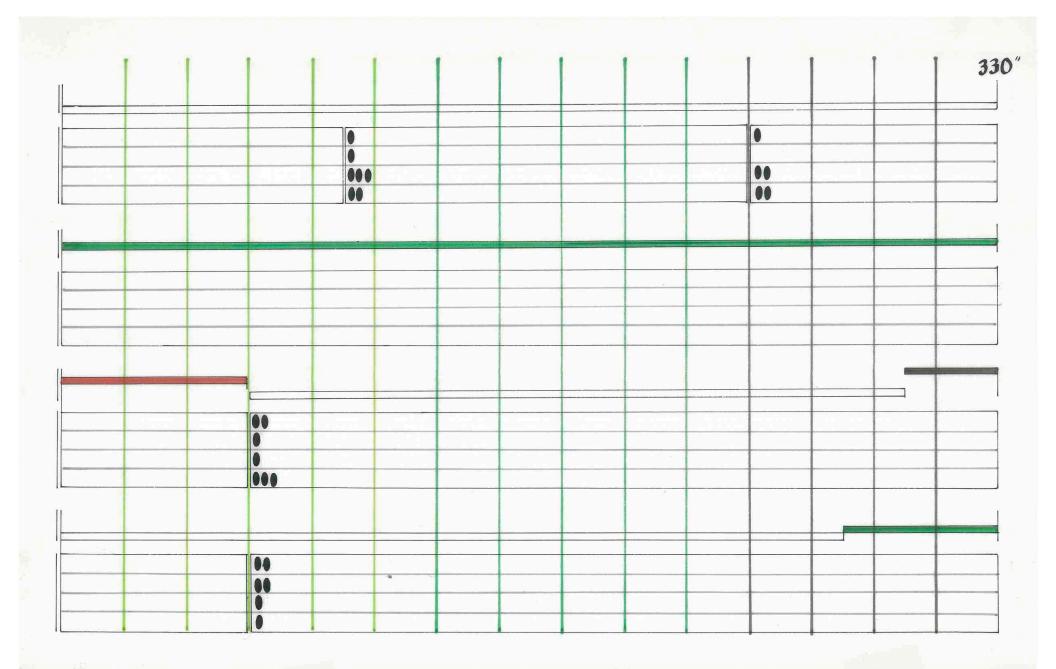


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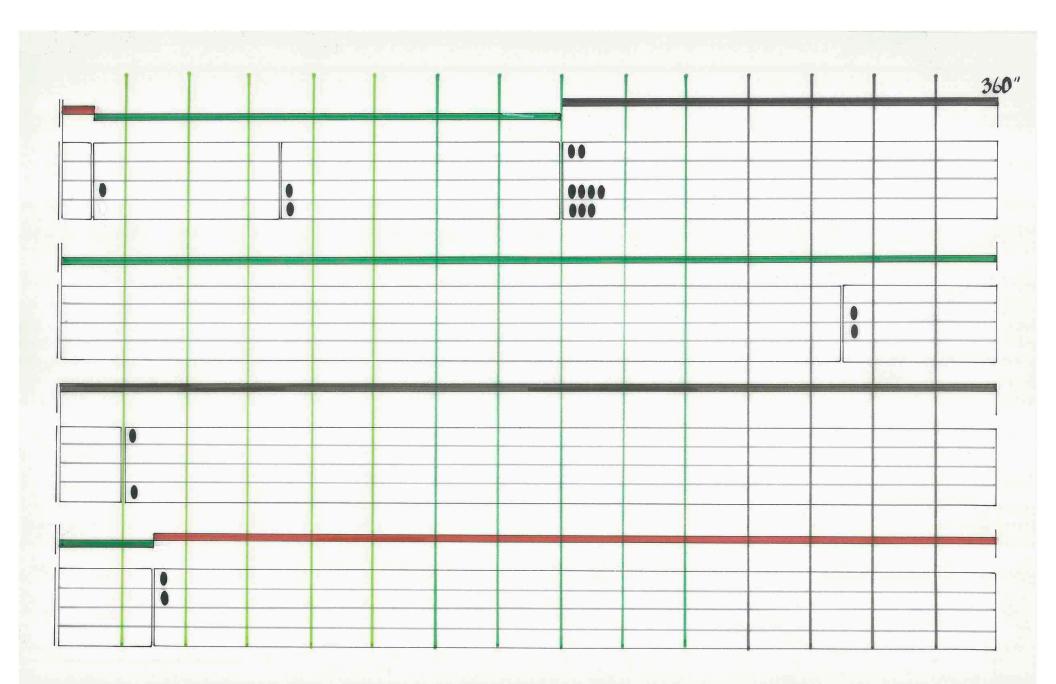
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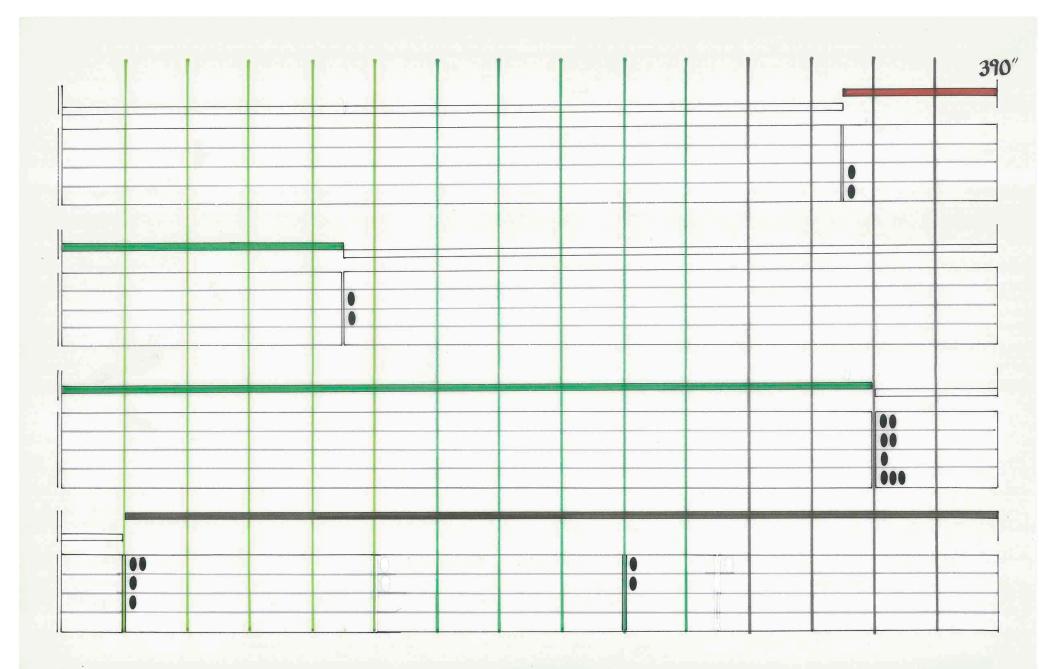


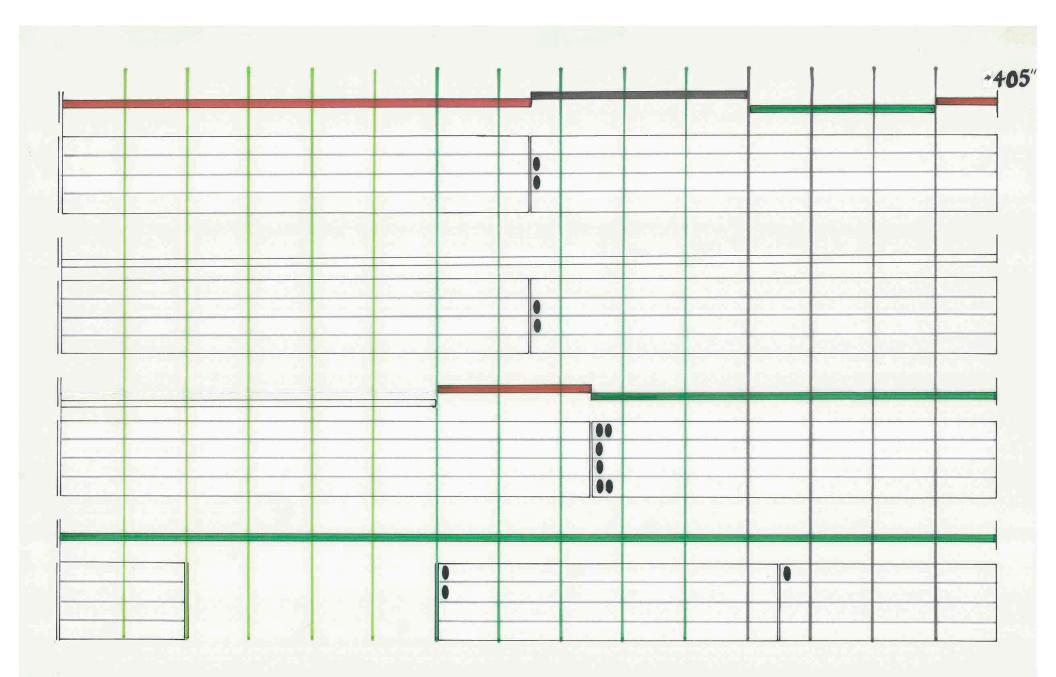


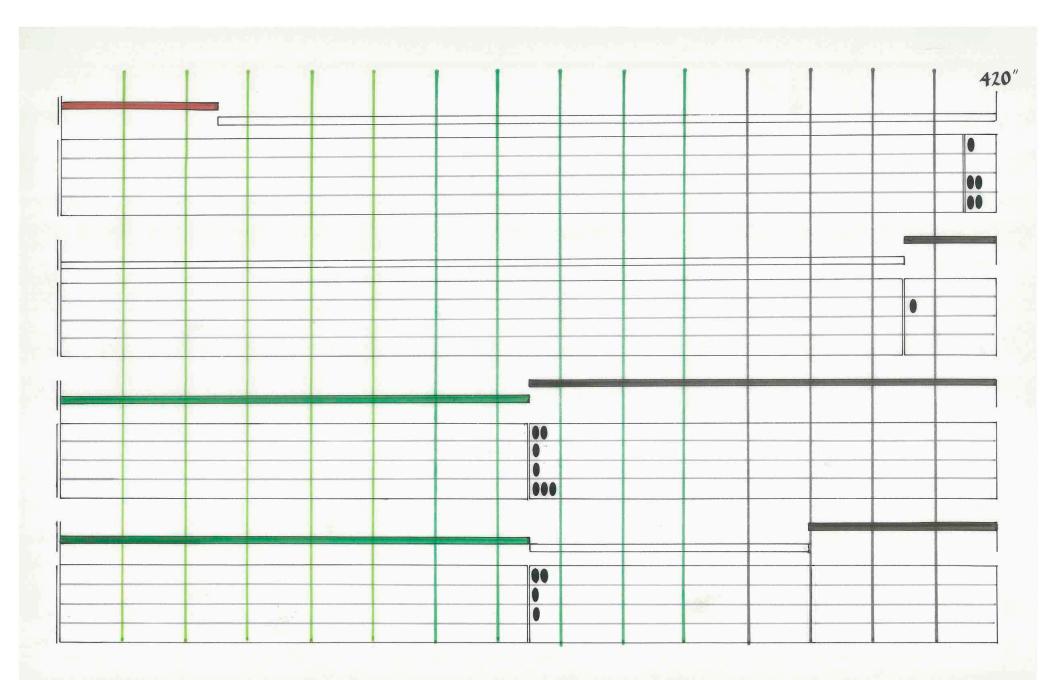
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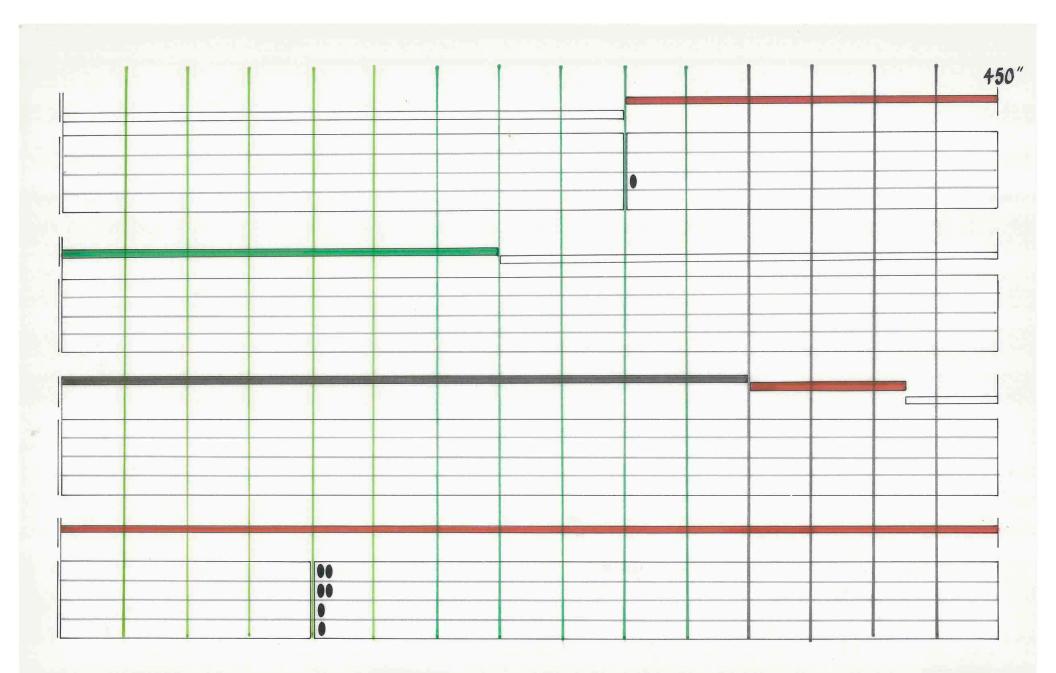
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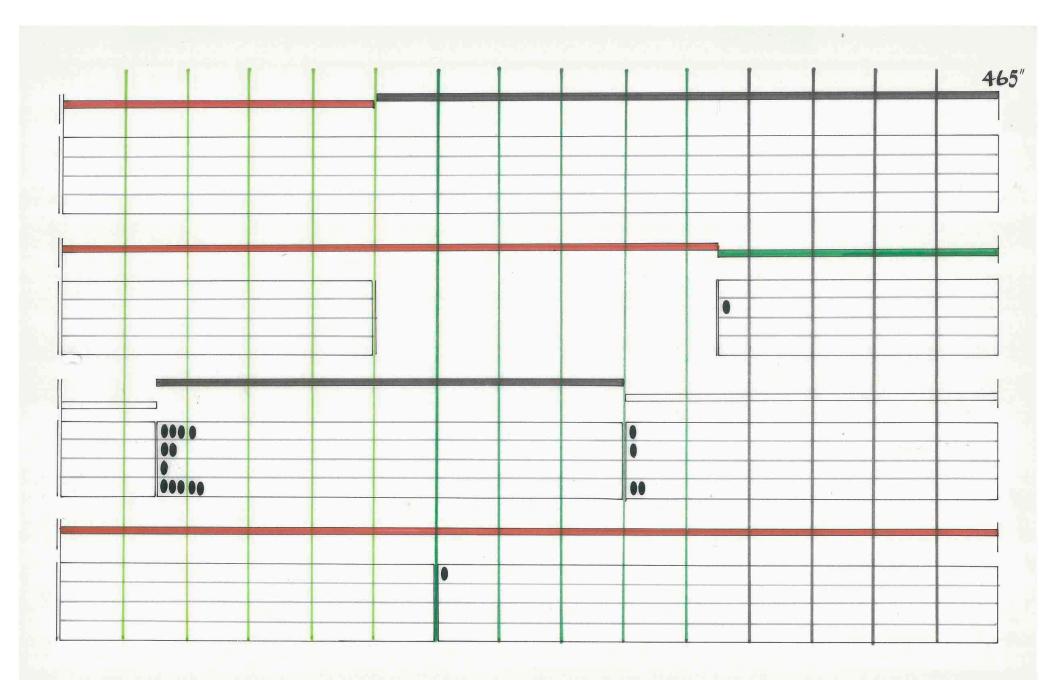


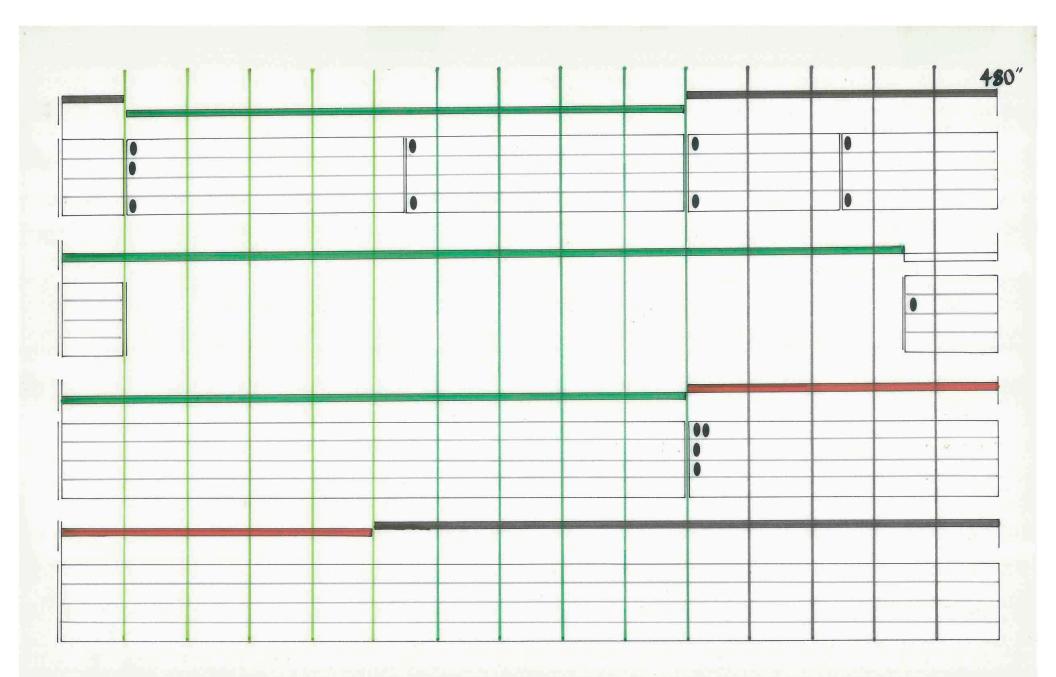




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