PROPOSED LIGHT CONSOLE. DRURY LANE THEATRE. 24/10/43. FPB/FPB.

General. There are 212 dimmer ways with space for 12 spares, in addit--ion there are 6 'setter' units, each consisting of a pair of clutches with potentiometers & return springs only. The dimmers will mostly have their pair of contactors or N.E.I. relays mounted on the dimmer frame itself; only the 30 amp. contactors will be mounted on a seperate panel. This means that 2/3 of the dimmer bank will be constructed in a similar manner to Bristol, though Drury Lane being a 4 tier job it will need to be more substantial; strutting to the walls will be permissable, and the bank must be dismantled to get it in the room.

There will be three distinct groups of shafts known as Masters 1,

2, & 3. Each to be driven by a motor (or pair of motors slow & fast) to give dimmer speeds of 6 secs. to 45 secs. in 9 steps. The motors are non-reversing and the shaft always revolves at the 45 secs. speed.

All dimmers are wired in the phase side, there are no neutral fuses. The supply is 230/400 and the total dimmer bank load is approximately 1,000 amps. per phase.

.,	amps. per phase.				
-	WORKS COST, approx. only, but includ	0			
	& 20 amp. at 200v. D.C.	\$130 en		- 19	
2	Remote control push button starters.) •			-
3	200v.motors (or pairs with freewheels)	130 pt.			0
3	Sets of 9 contactors (or relays) and	E11(15)- set	70	10	0
34	Type A.1. Sunset dimmers, 100 contact.	2/15/0en	93.	10	0
122	Туре А. " " "	2/5/-en	274	10	0
12		3-10-00	, 42	0	0
22	12 Kw. tapped transformers. GReshung	\$30 to	660	0	D-
44	6 Kw. commutators, brush-gear etc.	32	968	0	0
212	(in pairs for transformers above) pairs of limit switches & fixings.	161-01.	190	15	0
212	potentiometers complete with fixing.	6600	68	18	0
168	pairs of clutches complete with wheels	7-2-150548	464	. 0	0
44	flexes, & condensers. terminal blocks. pairs of double magnet clutches complete	te. 3-150 cet	165	.0	0
244	N.E.I. D.P. relays.	at 150	183	0	0
34	normally open 15 amp. S.P. contactors.	£1.90 less 52	101	15	0
34	" closed " " "	A CONTRACTOR			
55	" open 39 amp. " "	(1.18/3 tus 72	248.	5	3 .
55	" closed 30 amp." "]	2/5/9 lus 722	}		
100	30 amp. Slydlok fuses.	461- day	1.8	13	4
360	15 amp. " "		40	5	0
24	5 amp. " "	21/10 day.	2:	3	8
1	Framework, shafts, & bearings.		200	0	0
	Wiring & troughs for same. Excluding all made up multi-core cables & wiring		100	0	0
			200	3	0
		TOTAL.	- 0	-	100
1			3781	5	13
	2 2 3 34 122 12 212 212 168 44 244 34 34 55 100 360	Triple M.G. sets giving 150 Amp. at 15v & 20 amp. at 200v. D.C. Remote control push button starters. 200v.motors (or pairs with freewheels) size suitable to drive 80 dimmers each. Sets of 9 contactors (or relays) and speed control resistances. Type A.1. Sunset dimmers, 100 contact. Type A.1. Sunset dimmers. 100 contact. Type D. """ Type D. """" 12 Kw. tapped transformers. Gashum. (in pairs for transformers above) pairs of limit switches & fixings. 212 potentiometers complete with fixing. 160 pairs of clutches complete with wheels flexes, & condensers. terminal blocks. pairs of double magnet clutches complete. A. E.I. D.P. relays. A. normally open 15 amp. S.P. contactors. Closed """ 100 30 amp. Slydlok fuses. 360 15 amp. "" Framework, shafts, & bearings. Wiring & troughs for same. Excluding	WORKS COST. approx. only, but including overheads. Triple M.G. sets giving 150 Amp. at 15v & 20 amp. at 200v. D.C. Remote control push button starters. 200v.motors (or pairs with freewneels) size suitable to drive 80 dimmers each. Sets of 9 contactors (or relays) and speed control resistances. Type A.1. Sunset dimmers, 100 contact. 2 150 ac. Type A. " " "	WORKS COST. approx. only, but including overheads. Triple M.G. sets giving 150 Amp. at 15v 200 Amp. at 200v. D.C. Remote control push button starters. 200v.motors (or pairs with freewneels) size suitable to drive 80 dimmers each. Sets of 9 contactors (or relays) and speed control resistances. Type A.1. Sunset dimmers, 100 contact. 1/150 Amp. 174 Amp. 175 Amp. 174 Amp. 175 Amp	WORKS COST. approx. only, but including overheads. Triple M.G. sets giving 150 Amp. at 15v 200 amp. at 200v. D.C. Remote control push button starters. 200v.motors (or pairs with freewneels) size suitable to drive 80 dimmers each sets of 9 contactors (or relays) and speed control resistances. Type A.1. Sunset dimmers, 100 contact. 2 150 am 93. 10 122 Type A. " " " 3. 10 am 15 am

Proposed Light Console. Drury Lane Theatre.

Schene	Scheme	The figures are (except console)		Works cost plus					
Fu11	1		Full Scheme.			Ini	Initial Schem		
Ė	Initial		8.	8.	d.	£.			
2	2	M.G. sets giving 150 amp. at) 15v. D.C. Remote control) starters.	170.	0.	0.	170.	0.	0.	
6	6	200v. D.C. Shaft Motors.	180.	0.	0.	180.	0.	0.	
6	6	Sets of 9 step speed controls.	70.	10.	0.	70.	10.	0.	
6	6	Double Settercircuits with clutches.	36.	00.	0.	36.	0.	0.	
34	40	A.1. Sunset. 100 contact dimmers.	93.	10.	0.	110.	0.	0.	
122	84	A. Sunsets " " "	274.	10.	0.	189.	0.	0.	
12.	22	D. 17 17 17 17	42.	0.	0.	77.	0.	0.	
44	13	6 kw. Tapped Transformers.) Commutators & brush gear.)	968.	0.	0.	286.	0.	0.	
212	157	Pairs of Circuit switches & fixings.	190.	18.	0.	142.	0.	0.	
212	157	Potentiometers with fixings.	68,	18.	0.	51.	0.	0.	
168	144	Pairs of clutches with wheels, flexes, condensers & terminal blocks.	464.	0.	0.	398.	-0.	0.	
44	13	Pairs of double magnet clutches complete.	165.	0.	0.	49.	0.	0.	
244	176	N.E.I. D.P. relays.	183.	0.	0.	132.	0.	0.	
34	38	Normally open 15 amp. S.P.) Contactors.							
34	38	Normally closed ditto.	101.	15.	0.	114.	0.	0.	
55 55	33 33	Normally open 30 amp. ditto.)	248.	5.	3.	148.	0.	0.	
100	33	30 amp. Slydlok fuses.		13.		8.			
360	440	15 amp. " "	40.	-			3:		
24	24	5 amp. Framework shafts & bearings.	200			200			
		Wiring & troughs for same (internal), excluding L.V. multicore cables & wiring.	100.			100.			
-		Erection & Testing on site. Three Manual Console & relays. L.V. Wiring.	200. 1000. 50.	0.	0.	200 · 1000 · 50 · £3,737 ·	0.	0.	
	1 1		-	-					

NOTE: In some cases circuits have been omitted altogether from the initial scheme, and in others dimmers substituted for transformers etc., which explains why sometimes the figures in the second column are higher than those in the first.