

# **BURDETTE ENGINEERING, INC.**

## **USC-UPSTATE ELEVATOR UPGRADES FOR RECALL – LIBRARY / CP00372367 Addendum No. 1**

**March 11, 2015**

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The following items shall be incorporated into the bid documents. Bidder shall include all effects which these items may have on Bidder's proposal.

1. The attached Pre-Bid Minutes and list of attendees shall become part of the contract documents.
2. Provide Record drawings of all changes to the existing system wiring diagrams and copies of all inspections by LLR.
3. Attached are existing library elevator wiring diagrams.

### **END OF ELECTRICAL ADDENDUM No. 1**

**Attachments:**

Pre-Bid Meeting Minutes  
Existing Library Wiring Diagrams

# BURDETTE ENGINEERING, INC.

102 Pilgrim Road  
Greenville, South Carolina 29607-5702

Phone (864) 297-8717  
Fax (864) 297-8719

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## PRE-BID CONFERENCE

**Subject:** USC-UP Elevator Upgrades for Recall - Library

**Date:** March 11, 2015

**Meeting Date:** March 10, 2015, 10:00am

**Location** USC-Upstate, Spartanburg, SC

**Attendees:** See attached list.

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*All concerned for omissions, deletions, amendments, etc. should check this confirmation, and any correction or discrepancy promptly called to the attention of the undersigned.*

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The following was discussed:

1. Hatice Hickmet of USC Columbia briefed the group by phone of the front end requirements including bids that had to be received in their office in Columbia by 1:00pm on March 18, 2015. Last addendum will go out by 1:00pm on March 13, 2015. All information will be posted on the official website.
2. Ben Coonrod noted asbestos removal is not part of the project and if encountered would be handled by the University. Ben noted work schedule shall be coordinated with Owner and shall be scheduled after graduation and possibly between summer school sessions. Building will remain operational.
3. The existing Library wiring diagrams will be sent out by addendum.
4. The scope of work for the library elevator shall be amended to include Phase II Emergency In-Car Operation as well as the Phase I Emergency Recall Operation shown on plans. Installation of these operations shall include all modifications to the controller, wiring to the elevator car, installation of fire recall switch at designated levels and the fire operation switch in the control panel. All work shall conform to ASME A17.1/CSA-B44 current edition. Contractor shall include all permitting requirements from SC LLR.
5. A tour was taken and the cab and machine room were reviewed.
6. The University will provide separate work order for fire alarm installer to coordinate connection from existing recall relays to the elevator rack.

## END OF PRE-BID CONFERENCE NOTES

Attachment

Pre-Bid Attendees List

Submitted by: Don Burdette



## University of South Carolina Pre Bid Conference Sign In Sheet

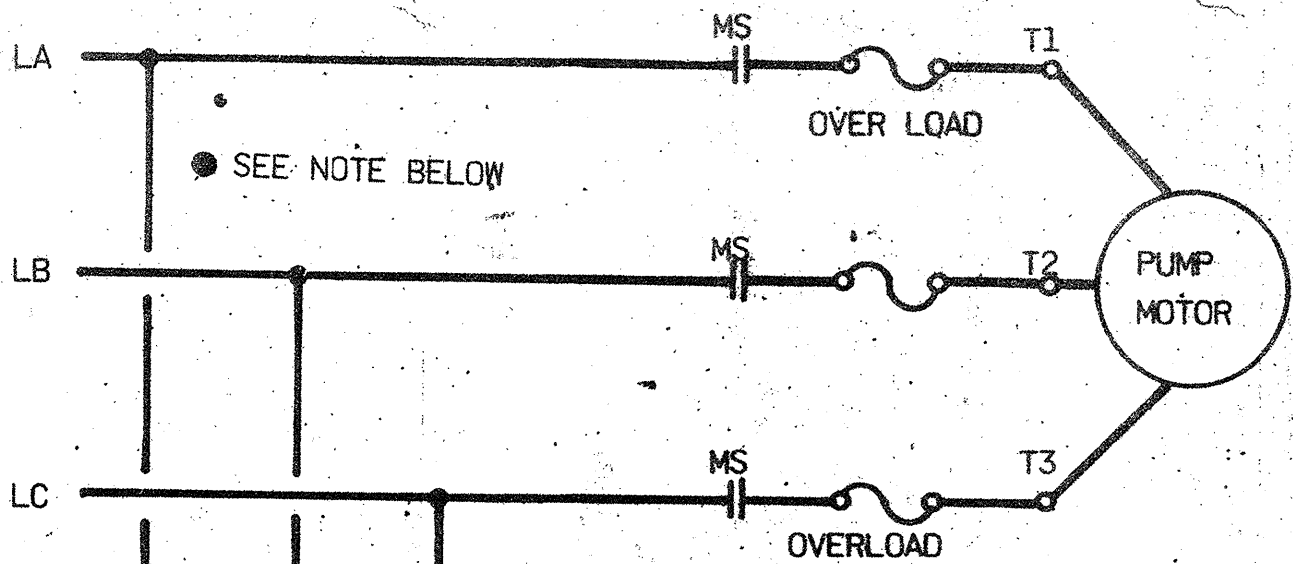
Spartanburg, SC

Project Name, Number & Project Manager: USC Upstate Elevator Upgrades for Recall-Library/CP00372367/Ben Coonrod  
 Pre Bid Conference Date & Time: March 10, 2015 10AM-155 American Way

Name	Company	Address	Phone #	Email
Michael Meyer	ThyssenKrupp Elevator	161 Johns Rd, Suite Greer, SC 29650	804-675-0090	m-meyer.michael@ thyssenkrupp.com
Andrew Smith	ThyssenKrupp Elevator	161 Johns Rd, Suite Greer, SC 29650	804-675-0096	andrew.smith@ thyssenkrupp.com
Dorothy Burdette	BURDETTE ENGINEERING, INC.	102 PLEASANT RD SPARTANBURG SC 29607	804-297-9717	dburdette@ burdetteengr.com
Ben Coonrod	USC	155 AMERICAN WAY SPARTANBURG	803-530-5386 <del>803-530-5386</del>	bcoonrod@ fmc.sc.edu

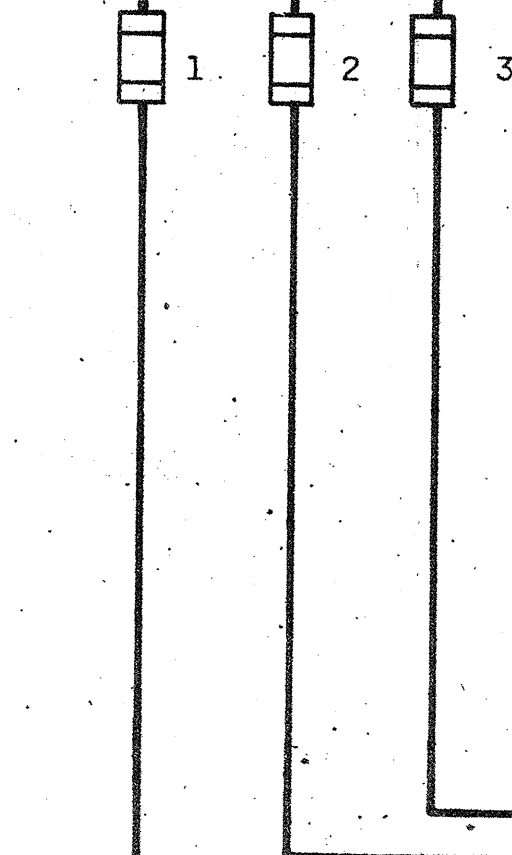
\*Please make sure you list your company name as registered with LIR.  
 \* By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.

011 016



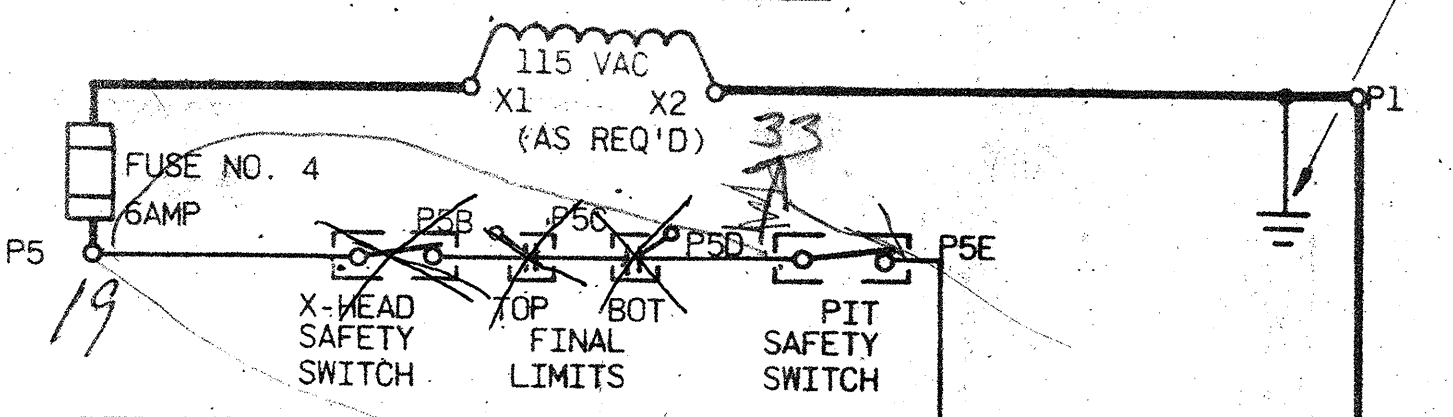
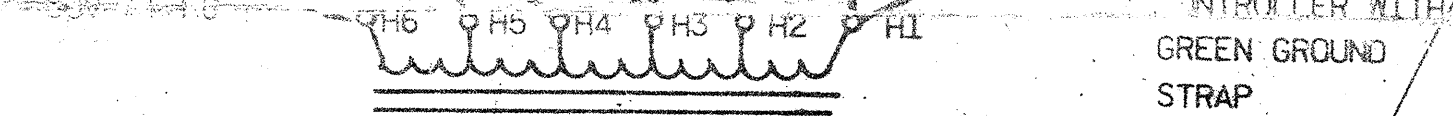
011 016  
012 017

FUSE NO. 1, 2, AND 3  
6 AMP. FOR 400/600V  
10 AMP FOR 200V.

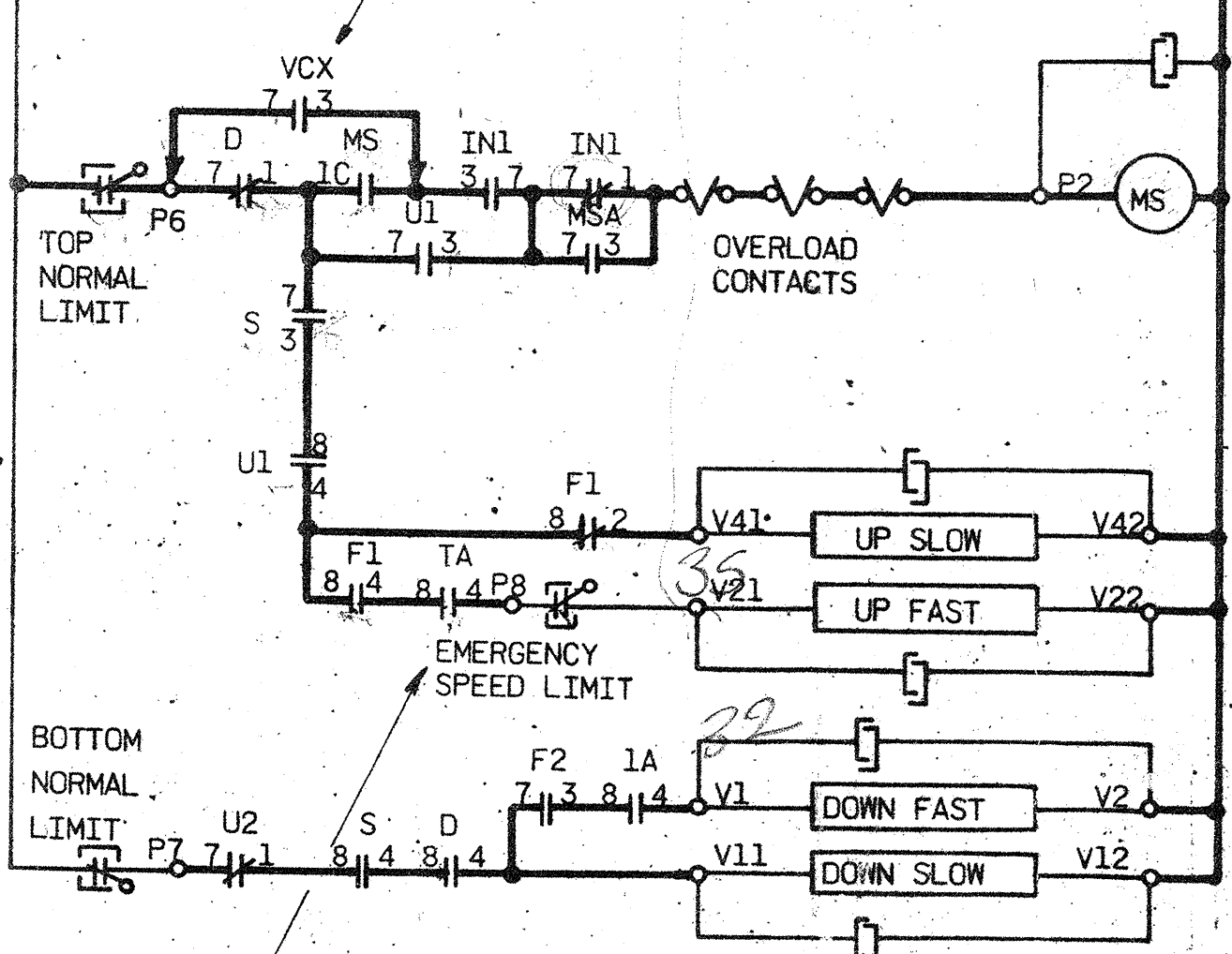


TRANSFORMER NO. 1 PRIMARY CONNECTIONS

208V AT H2  
220/230V AT H3  
240V AT H4  
240/460V AT H5

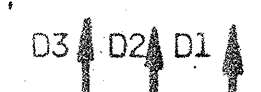


VCX CONTACT WILL BE PROVIDED AND WIRED AS SHOWN ONLY WHEN VISCOSITY CONTROL IS PROVIDED.



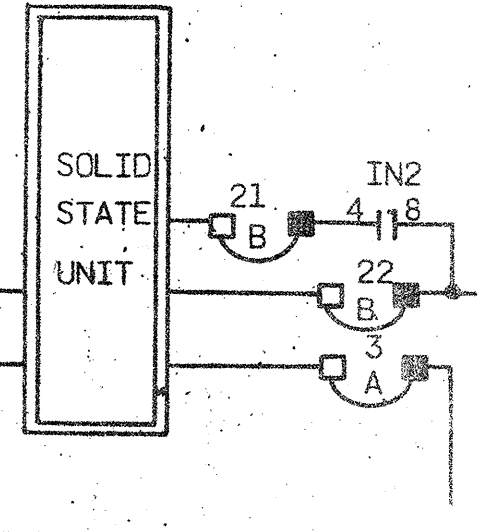
013 018  
014 019

SEE PAGE 02  
AREA 026

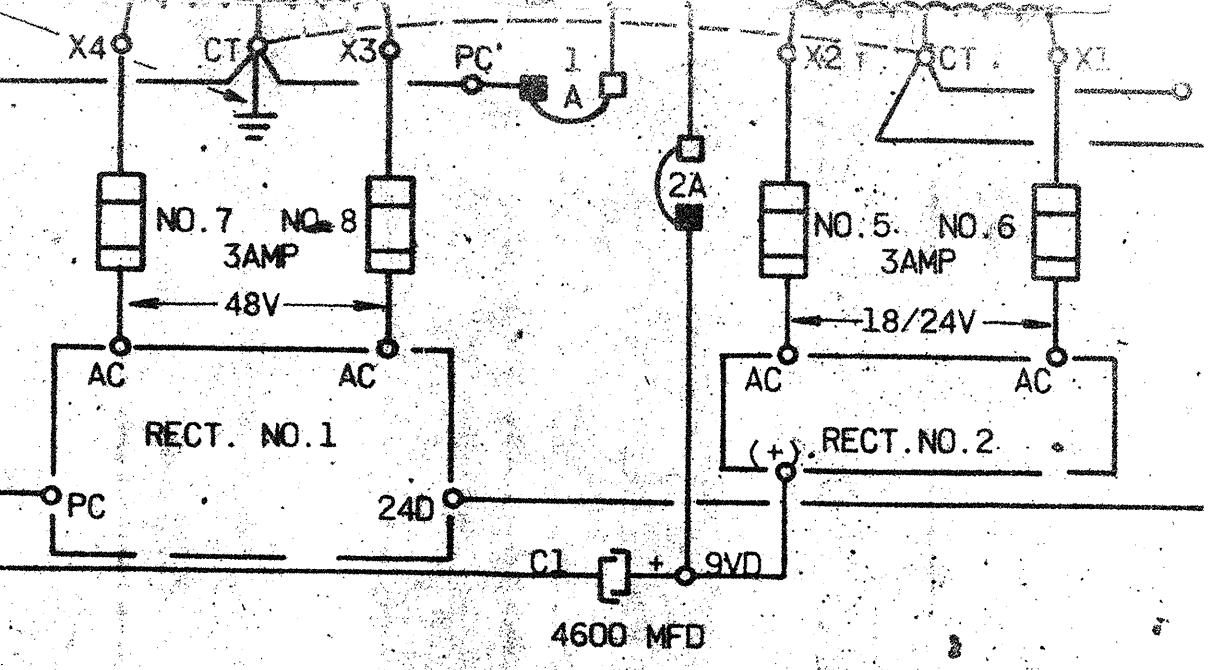


012 017  
013 018

TRANSFORMER NO. 2. PRIMARY CONNECTIONS ARE THE SAME AS NO. 1.



012 017  
013 018



013 018  
014 019

This drawing is the property of Dover Corporation and must not be made public or copied. This drawing is loaned subject to return on demand and is not to be used, directly or indirectly, in any manner detrimental to the interest of Dover Corporation.

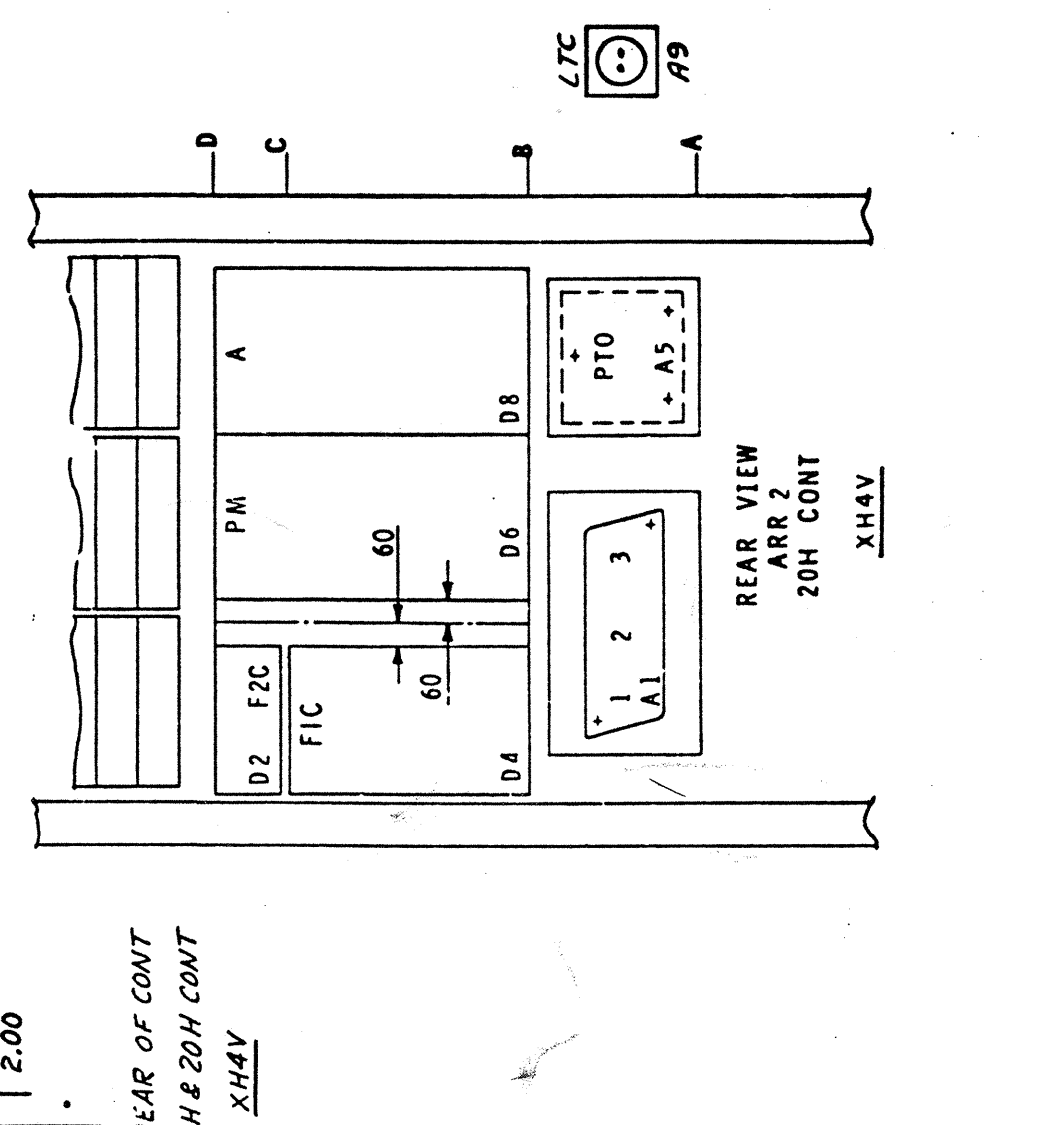
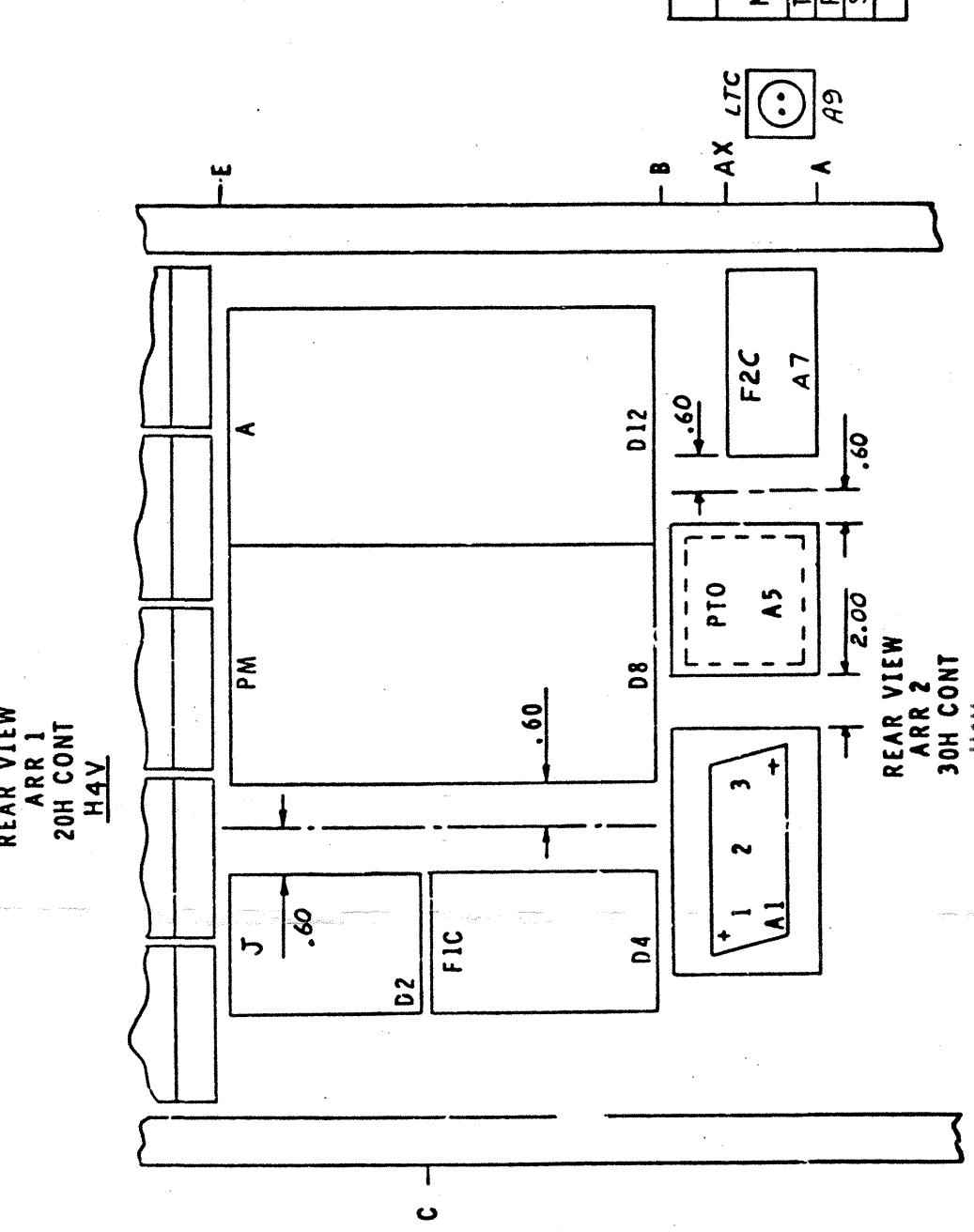
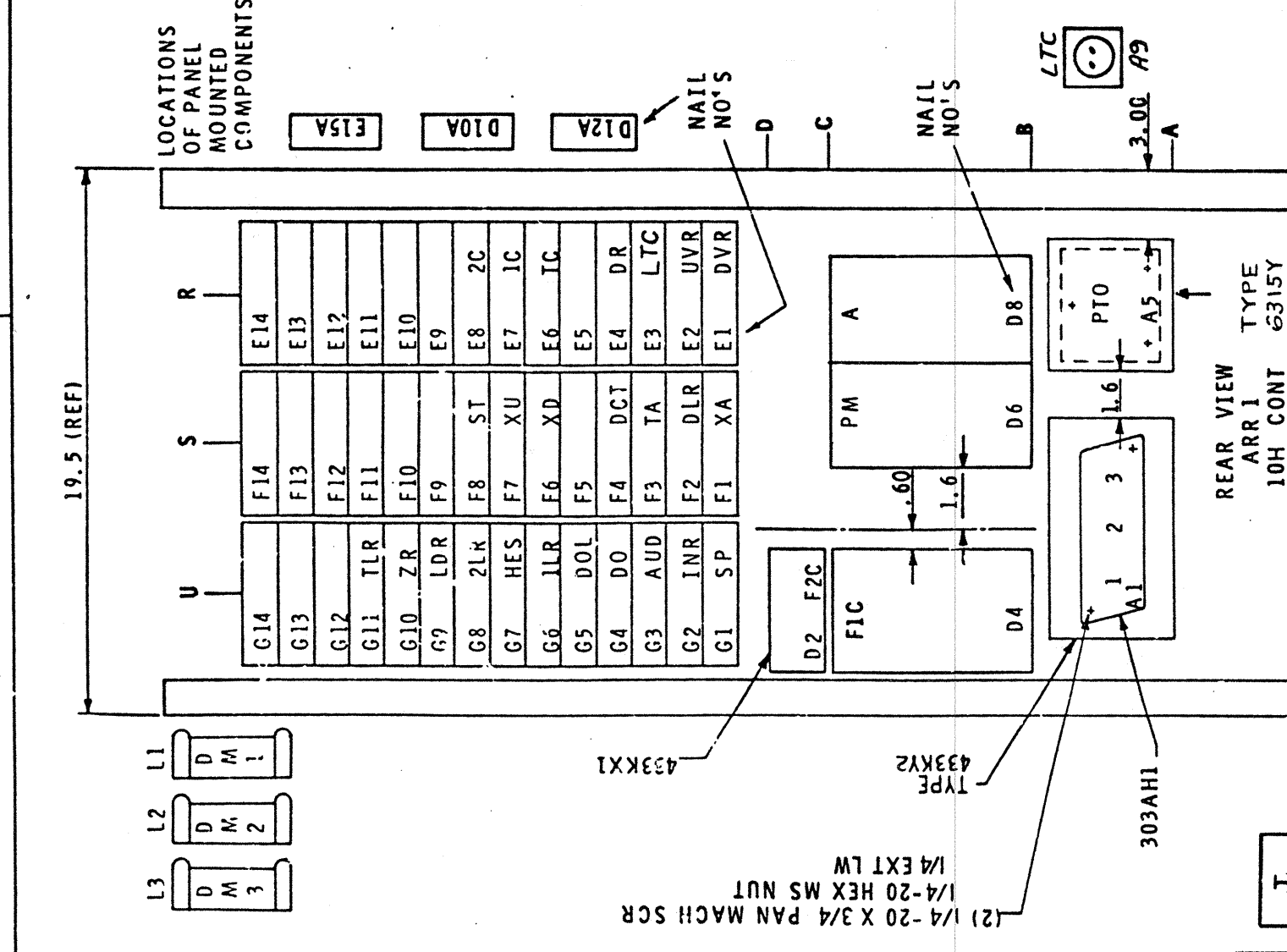
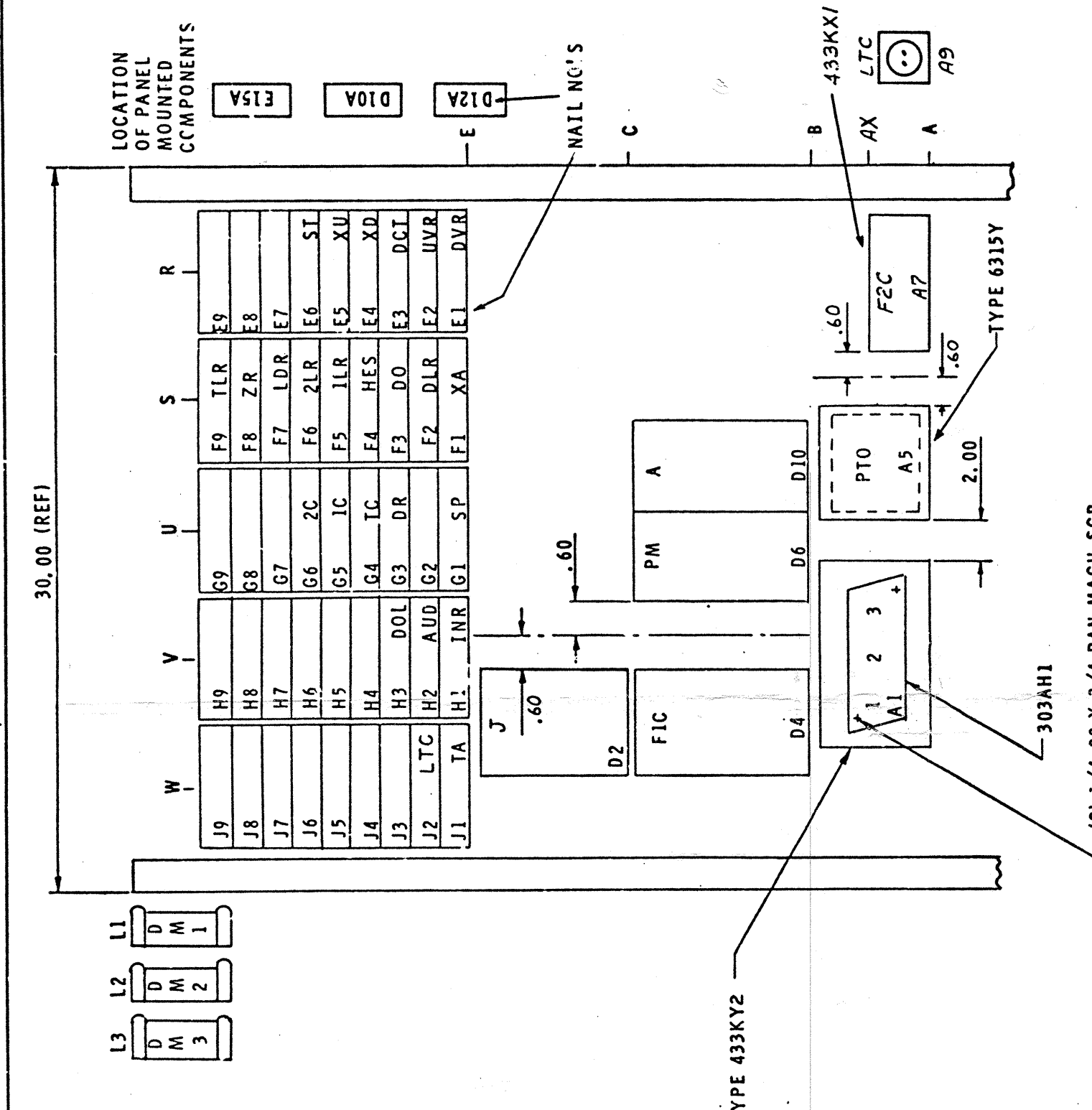
E50247

014 019  
015

SYMBOLS AND NOTES	CONTRACT NO.
NOTE: ● SEE DWG. NO. 110603 FOR THE WIRE SIZE AND THE CONNECTION DIAGRAM FOR THE STARTING SWITCHES.	F 6-6-77 ECO 13563
ALL CAPACITORS UNLESS OTHERWISE MARKED ARE 0.1 MFD AT 600 V.D.C. SEE ASSEMBLY INSTRUCTIONS FOR CAPACITORS MOUNTING DETAIL.	E 9-23-76 ECO 13261
□ LOGIC DOOR TO POWER PANEL	D 7-13-76 ECO 13017
— INDICATES CONTROL PANEL WIRING THAT IS 18GA. 600V WIRE	C 4-28-76 ECO 12959
— INDICATES CONTROL PANEL WIRING THAT IS 20GA. 300V WIRE	B 8-23-76 ECO 12815
★ CT JUMPER WIRE IS PROVIDED AS A	A 7-17-75 ECO 50038
	LET DATE CHANGE

**DOVER CORPORATION**  
**ELEVATOR DIVISION**

CABLE LENGTH	SIGNAL POST TERMINAL BLOCKS				MODULE	CABLE LENGTH
	A	R	E	A		
	03S	TPA/TTC	2	1	2	
	03S	TPA/TTC	2	2	8	
	03S	TPA/TTC	2	3	8	
	03S	TPA/TTC	2	4	2	
	03S	TPA/TTC	2	5	3	
	03S	TPA/TTC	2	6	3	
	03S	TPA/TTC	2	7	3	
	03S	TPA/TTC	2	8	3	
	03S	TPA/TTC	2	9	3	
	03S	TPA/TTC	2	10	3	
	03S	TPA/TTC	2	11	3	
	03S	TPA/TTC	2	12	3	
	03S	TPA/TTC	2	13	3	
	03S	TPA/TTC	2	14	3	
	03S	TPA/TTC	2	15	3	
	03S	TPA/TTC	2	16	3	
	03S	TPA/TTC	2	17	3	
	03S	TPA/TTC	2	18	3	
	03S	TPA/TTC	2	19	3	
	03S	TPA/TTC	2	20	3	
	03S	TPA/TTC	2	21	3	
	03S	TPA/TTC	2	22	3	
	03S	TPA/TTC	2	23	3	
	03S	TPA/TTC	2	24	3	
	03S	TPA/TTC	2	25	3	
	03S	TPA/TTC	2	26	3	
	03S	TPA/TTC	2	27	3	
	03S	TPA/TTC	2	28	3	
	03S	TPA/TTC	2	29	3	
	03S	TPA/TTC	2	30	3	
	03S	TPA/TTC	2	31	3	
	03S	TPA/TTC	2	32	3	
	03S	TPA/TTC	2	33	3	
	03S	TPA/TTC	2	34	3	
	03S	TPA/TTC	2	35	3	
	03S	TPA/TTC	2	36	3	
	03S	TPA/TTC	2	37	3	
	03S	TPA/TTC	2	38	3	
	03S	TPA/TTC	2	39	3	
	03S	TPA/TTC	2	40	3	
	03S	TPA/TTC	2	41	3	
	03S	TPA/TTC	2	42	3	
	03S	TPA/TTC	2	43	3	
	03S	TPA/TTC	2	44	3	
	03S	TPA/TTC	2	45	3	
	03S	TPA/TTC	2	46	3	
	03S	TPA/TTC	2	47	3	
	03S	TPA/TTC	2	48	3	
	03S	TPA/TTC	2	49	3	
	03S	TPA/TTC	2	50	3	
	03S	TPA/TTC	2	51	3	
	03S	TPA/TTC	2	52	3	
	03S	TPA/TTC	2	53	3	
	03S	TPA/TTC	2	54	3	
	03S	TPA/TTC	2	55	3	
	03S	TPA/TTC	2	56	3	
	03S	TPA/TTC	2	57	3	
	03S	TPA/TTC	2	58	3	
	03S	TPA/TTC	2	59	3	
	03S	TPA/TTC	2	60	3	
	03S	TPA/TTC	2	61	3	
	03S	TPA/TTC	2	62	3	
	03S	TPA/TTC	2	63	3	
	03S	TPA/TTC	2	64	3	
	03S	TPA/TTC	2	65	3	
	03S	TPA/TTC	2	66	3	
	03S	TPA/TTC	2	67	3	
	03S	TPA/TTC	2	68	3	
	03S	TPA/TTC	2	69	3	
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	03S	TPA/TTC	2	72	3	
	03S	TPA/TTC	2	73	3	
	03S	TPA/TTC	2	74	3	
	03S	TPA/TTC	2	75	3	
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	03S	TPA/TTC	2	77	3	
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	03S	TPA/TTC	2	82	3	
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	03S	TPA/TTC	2	88	3	
	03S	TPA/TTC	2	89	3	
	03S	TPA/TTC	2	90	3	
	03S	TPA/TTC	2	91	3	
	03S	TPA/TTC	2	92	3	
	03S	TPA/TTC	2	93	3	
	03S	TPA/TTC	2	94	3	
	03S	TPA/TTC	2	95	3	
	03S	TPA/TTC	2	96	3	
	03S	TPA/TTC	2	97	3	
	03S	TPA/TTC	2	98	3	
	03S	TPA/TTC	2	99	3	
	03S	TPA/TTC	2	100	3	



TRAY EQUIPMENT			
NAME	SYMBOL	NAIL NO.	MODULE
TRANSFORMER	TRM	A6	SVH/SYJ
POWER CONV. STATIC	PCS	A8	
SOLID STATE TIMER	SP	A2	

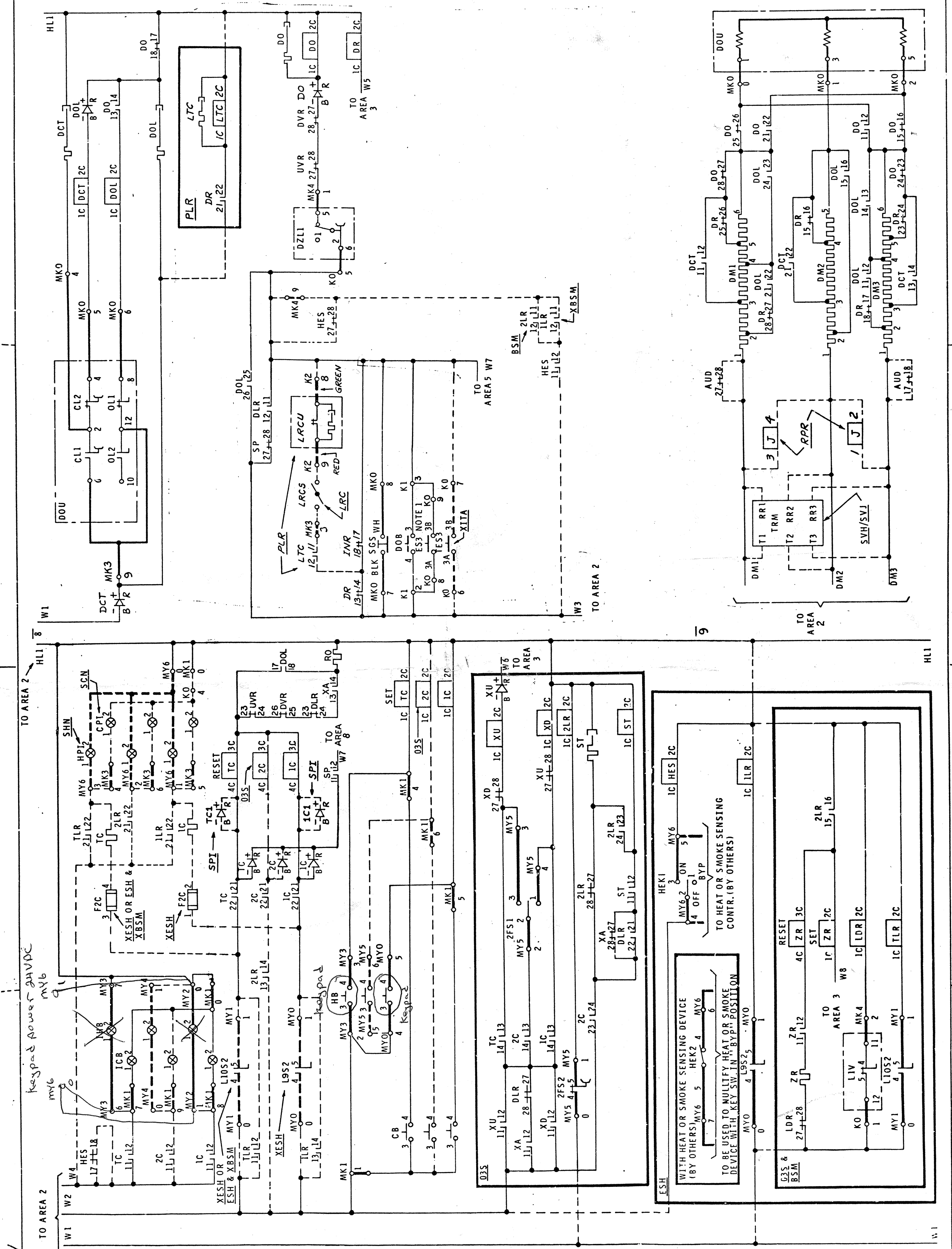
NUMBER OF DIAGRAM USED AS BASE	DATE	CHANGES	BY	DWG. NO.	7-1S7561AA
				DATE	JUN-1-72
				DRAWN R. ALLEN	75-07-15 R.C. EBRECH
				CHK R. ALLEN	
				APPD	5 SHEETS - SHEET 5

10-20-30 HOT LS, H1LS, H1LS, H1LS A.C. RESISTANCE CONTROLLER  
 PLUNGER ELECTRIC 2 STOP OR 3 STOP SINGLE BUTTON COLL. CONTROL  
 3 PHASE 3 WIRE WITH 7300BB DOOR OPER. WITHOUT ATTENDANT  
 COPYRIGHT © 1971 OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED. THIS DRAWING OR ANY PART THEREOF MAY NOT BE REPRODUCED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF OTIS ELEVATOR COMPANY.  
 SIZE M-24X34 OFFSET 164122 MICROFILM 23

REGION - USE THIS  
 PRINT FOR MARK-UP

U.S. Library & Class Room  
 # 500553





NUMBER OF DIAGRAM USED AS BASE	DATE	CHANGES	BY

ELECTRICAL DIAGRAM FOR 10-20-30 HOTLS, HITLS, HOJLS, HJLS A.C. RESISTANCE CONTROLLER PLUNGER ELECTRIC 2 STOP OR 3 STOP SINGLE BUTTON COLL. CONTROL 3 PHASE 3 WIRE WITH 73008B DOOR OPER. WITHOUT ATTENDANT		DWG. NO	7-157561AA
DRAWN R. ALLEN		DATE	JUN-1-72
CHK R. ALLEN		75-07-15 R.C. EBPECH	
APPD		5 SHEETS - SHEET 3	

SIZE M-24x34

U.S.C. Library & Class Room # 500 553

RECEIVED JUN 15 1972  
PRINT FOR PART 11





M O D U L E	NAMES OF APPARATUS OTHER THAN MOTION CONTROLLER	S Y M B O L	L O C A T I O N	V A R I T E M
IPA/ITB	ALARM BELL	AB	2	*
IPA/ITB	LOWER ACCESS KEY SW	BAK	3,4	
IZA	LOWER ACCESS ZONE LIMIT	BAZ	3	
	CAR BUTTONS	CB	6	
	CAR LIGHT	CL	2	
	CAR LIGHT SWITCH	CLS	2	
SCN	CAR POSITION INDICATORS	CPI	5	
	DOWN LEVELING VALVE	DIV	3	
	DOOR OPEN BUTTON	DOB	8	
	DOOR OPERATOR UNIT	DOU	8,9	
	DOOR CONTACTS	DS	4	
	DUMP VALVE	DV	3	
	DOWN VALVE	DV	4	
	DOOR ZONE SWITCH	DZL	3,8	
	EMERGENCY CALL BUTTON	ECB	2	
EPL	EMERGENCY LIGHT	EL	2	
EPL	EMERGENCY LIGHT POWER PACK	ELPP	2	
	EMERGENCY STOP SWITCH	ES	3,8	*
FAN	FAN	FN	2	
	2ND LG. FLOOR STOP SWITCH	2FS	6	
	GATE CONTACT	GS	4	
	HALL BUTTONS	HB	6	
ESH	EMERGENCY SERV. KEY SW.	HEK	7	
SHN	HALL POSITION INDICATORS	HPI	5	
IZB	INTERM. ACCESS ZONE LIMIT	IAZ	3	
	ILLUMINATED CAR BUTTON	ICB	5	
IPA/ITC	INSPECTION INITIATING SW.	IIS	2	
	ILLUMINATED HALL BUTTON	IHB	5	
	DOWN DIRECTION LIMIT SW.	LDS	3,4	
	UP DIRECTION LIMIT SW.	LUS	3,4	
XHIV/XH4H	EMERG. TERM SPEED LIMITING SW.	L8S	4	
	UP DIR. SLOWDOWN LIMIT SW.	L10S	4,5,7	
	DOWN LEVELING SWITCH	L1V	3,7	
	UP LEVELING CREEPAGE SW.	L2V	3	
	PIT EMERGENCY STOP SW.	PES	3	
	SAFETY SHOE LIMIT	SGS	8	
ITA	UPPER ACCESS KEY SWITCH	TAK	3,4	
ITZB	UPPER ACCESS ZONE LIMIT	TAZ	3	
ITC	TOP OF CAR INSPECTION SW.	TCI	2,3	
	DOWN INSPECTION BUTTON	TDIB	3	
	TOP OF CAR EMERGENCY STOP SW.	TES	3,8	
HTH	TANK HEATER	TH	2	
	DOWN DIR. SLOWDOWN LIMIT SW.	L9S	4,5,7	
	EMERGENCY EXIT CONTACT	EEC	2	*
ITC	UP INSPECTION BUTTON	TUIB	3	
	UP VALVE	UV	4	
PLR	LIGHT RAY CONTROL UNIT	LRCU	2,8	
LRC	LIGHT RAY CUTOFF SWITCH	L RCS	8	

FIELD WIREMAN			
IF NOT USED CONNECT AS LISTED BELOW			
MODULE	NAME OF VARIABLE ITEMS	AT MOTION CONTROLLER	IN FIELD
ITB	INTER ACCESS ZONE LIMIT	MY7-3 TO MY7-5	
ITZB	UPPER ACCESS ZONE LIMIT	MY7-4 TO MY7-6	
IZA	LOWER ACCESS ZONE LIMIT	MY4-4 TO MY4-3	
03S	DOOR CONTACT	MY5-7 TO MY5-8	
XHIV/XH4H	EMERG. TERM SPEED LIMIT SW.	MY1-6 TO MY1-7 & MY3-0 TO MY3-1	
ITC	TOP OF CAR INSP. SWITCH	MK2-2 TO MK2-3	K1-1 TO K1-4
	EMERGENCY EXIT CONTACT		MK4-0 TO K1-4
LRC	LIGHT RAY CUTOFF SWITCH		MK3-3 TO K2-9

**GENERAL INFORMATION ABOUT MODULES**

A- THE LETTER "X" PRECEDING A MODULE DESIGNATION REPRESENTS "WITHOUT", I.E. XBSM MEANS WITHOUT BASEMENT SERVICE

B- A SLASH MARK "/" BETWEEN MODULE DESIGNATIONS REPRESENTS "AND" OR "I.E. 03S/ESH MEANS THREE STOPS AND / OR SPECIAL EMERGENCY SERV.

C. ANY UNDERLINED DESIGNATION IS A MODULE.

SYMBOL	MODULES	NAME
BSM	BASEMENT SERVICE	
EPL	EMERGENCY LIGHTING POWER PACK	
ESH	SPECIAL EMERGENCY SERVICE	
HIV	HYP 1500	
H4H	HVH 4000	
HTH	TANK HEATER	
ITA	TOP OF CAR INSPECTION WITH ACCESS SWITCH	
ITB	TOP OF CAR INSPECTION WITH LOWER ACCESS SWITCH	
ITC	ZONED ACCESS AT BOTTOM	
IZA	ZONED ACCESS AT INTERMEDIATE	
IZB	ZONED ACCESS AT TOP	
02S	TWO STOPS	
03S	THREE STOPS	
SCN	NON CONTINUOUS CAR POSITION INDICATOR	
SHN	NON CONTINUOUS HALL POSITION INDICATOR	
SPI	POSITION INDICATOR	
SRE	RESISTANCE STARTING	
SVH	SUPPLY VOLTAGE 440-480	
SVJ	SUPPLY VOLTAGE 550-600	
PLR	LIGHT RAY	
RPR	REVERSE PHASE RELAY	
LRC	LIGHT RAY CUTOFF SWITCH	
IPA	LOWER ACCESS SW. WITHOUT TOP OF CAR INSPECTION	

**GENERAL INFORMATION**

A- SYMBOL SHOWN THUS IN TABLES INDICATES THAT CONTACT IS FURNISHED ON SWITCH. THE NUMBER SHOWN IN SYMBOL REFERS TO THE AREA LOCATION ON STRAIGHT DIAGRAM AND IS PLACED IN THE UPPER LEFT HAND CORNER OF EACH AREA. AN AREA EXTENDS FROM ONE AREA NUMBER TO THE ONE BELOW AND FROM THE CENTER OF THE DIAGRAM TO THE OUTSIDE, OR FROM ONE SIDE OF THE DIAGRAM TO THE OTHER.

B- ALL VARIABLE ITEMS ARE SHOWN DOTTED.

C- THE ODD NUMBER ON A SYMBOL INDICATES THE FOLLOWING FACING THE FRONT OF CONTROLLER.

(1) THE STATIONARY PART OF A MAIN CONTACT OR THE PART NEAREST THE CONTROLLER PANEL OF AN AUXILIARY CONTACT ON A MAGNET SWITCH.

(2) THE TOP PART OF A FUSE IF IT IS MOUNTED VERTICALLY.

(3) THE LEFT HAND SIDE OF A MAGNET COIL OR FUSE, IF THE FUSE IS MOUNTED HORIZONTALLY.

D- LETTER M UNDER A CONNECTION TO A COIL OR CONTACT INDICATES MECHANICAL CONNECTION WHICH CANNOT BE SEPARATED.

E- TERMINAL HLT MUST BE CONNECTED TOGETHER ON ALL PIECES OF APPARATUS.

F- WIRING ENCLOSED BY DOT-DASH LINES INDICATES SUB-ASSEMBLY WIRING. (EXCEPT IF NOTED).

G- TERMINAL BLOCK MARKINGS ARE CODED TO IDENTIFY THE ELEVATOR, EQUIPMENT THEY ARE MOUNTED ON, ORIGIN AND TERMINATION FOR INTERCONNECTING, TERMINAL BLOCK NUMBERS AND TERMINAL STUD NUMBERS.

ELEVATORS - A, B, C ETC.  
EQUIPMENT - M - MOTION CONTROLLER  
K - CAR  
X - MACHINE ROOM  
Y - HOISTWAY

ORIGIN & TERMINATION

TERMINAL BLOCK NUMBER

TERMINAL STUD NUMBER (TEN PER TERMINAL BLOCK)

H - SLIMLINE RELAYS:

(1) NUMBERS HAVE BEEN ASSIGNED TO SLIMLINE RELAY COIL LEADS AND CONTACTS IN ACCORDANCE WITH SKETCH BELOW.

THE NUMBER OF A CONTACT REFLECTS THE LOCATION OF A CONTACT ON THE RELAY.

THE FIRST FIGURE INDICATES THE HORIZONTAL ROW AND THE SECOND FIGURE INDICATES THE LOCATION OF A CONTACT IN SUCH ROW. THUS, CONTACT NUMBER 11 IS LOCATED IN THE FIRST OR TOP ROW AND IS THE FIRST OR LEFT CONTACT IN THAT ROW.

CONTACT NUMBER 12 IS ALSO IN THE FIRST OR TOP ROW AND IS THE SECOND CONTACT IN THE LEFT.

CONTACT NUMBER 21 IS LOCATED IN THE SECOND OR BOTTOM ROW AND IS THE FIRST OR LEFT CONTACT IN THAT ROW, ETC.

REAR VIEW OF RELAY

(2) FOR THREE LEAD COIL FUNCTION FURNISH 4 LEAD COIL & CONNECT TERMINALS 2C & 3C TOGETHER.

(3) ON 4 LEAD COIL 2C & 4C ARE START WINDINGS. ON 2 LEAD COIL 2C IS START WINDING.

NOTE 1- IF REQUIRED BY LOCAL CODE THAT EMERG. STOP SW. (ES3) BE CONNECTED IN PARALLEL WITH EMERG. CALL BUTTON (ECB), FIELD TO REMOVE JUMPERS KO-9 TO K1-3 & KO-8 TO K1-2 & CONNECT KO-9 TO K2-0 & KO-8 TO K2-1.

MA 2-3 to MA 1-2-4p

M10-N SHEETS 1-2

NUMBER OF DIAGRAM USED AS BASE 4-1S7561AA	DATE 7-06-02	CHANGES BROUGHT UP TO DATE (PC 17210-338)	BY L. DORMAN	ELECTRICAL DIAGRAM FOR 10-20-30 HOT L.S., HTLS, HOJLS, HJLS A.C. RESISTANCE CONTROLLER PLUNGER ELECTRIC 2 STOP OR 3 STOP SINGLE BUTTON COLL. CONTROL 3 PHASE 3 WIRE WITH 7300BB DOOR OPER. WITHOUT ATTENDANT	FIRST USED FOR BASE DWG. NO. 7-1S7561AA
					DATE JUN-1-72
					DRAWN R. ALLEN
					75-07-15 R.C. EBRECH
					CHK R. ALLEN
					APPD. (PC4H01-21)
					5 SHEETS - SHEET 1