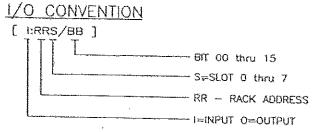
CONTROLS DRAWINGS - 05077

| SHEET | DESCRIPTION OF SHEET |
|-------|--|
| | ELECTRICAL |
| | ELECTRICAL |
| | ELECTRICAL TABLE OF CONTENTS |
| 3. | HACHINE LAYOUT |
| | 480VAC POWER DISTRIBUTION. |
| 5 | 120VAC POVER DISTRIBUTION |
| 6 | ZAVDC PUVER DISTRIBUTION |
| 7 | SPARE SHEET |
| 8 | KEYENCE LIGHT CURTAIN VIRING |
| 9 | SPARE SHEET SPARE SHEET |
| 10 | SPARE SHEE! |
| 11 | Controllet POINT IO VIRING |
| 12 | CONTROLLET ID LAYOUT AND POWER CONNECTION |
| 13 | FLEX TO MODULE NO - INPUTS AND MODULE NI - INPUTS |
| 14 | |
| 15 | FLEX ID MODULE #4 - OUTPUTS AND MODULE #5 - DUTPUTS FLEX ID MODULE #6 - OUTPUTS AND MODULE #7 - ANALOG INPUTS PAGE CHECK |
| 16 | SPARE SHEET |
| 17 | SPARE SHEET |
| 18 | SPARE SHEET |
| 19 | STARE SHEET |
| 20 | |
| 21 | ALCATEL CONTROLLER CONNECTIONS AND ID VIRING ALCATEL CONTROLLER ENCLOSURE |
| 22 | SPARE SHEET |
| 53 | SPARE SHEET |
| 24 | SPARE SHEET |
| 25 | HAIN ENCLUSURE/PANEL LAYOUT |
| 26 | OPERATOR INTERFACE BOX |
| | THE STITCH RCE SUX |
| | |
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| | |
| | |
| | |
| | |
| | |
| | |
| | |
| - | PNEUMATIC |
| 1 | MAIN AIR DROP AND SEAL DOOR MANIFOLD |
| 2.4 | HELION LEAK CIRCUIT |
| | |
| | |
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| | |
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| · | |

REPORT TO THE TOTAL CONTRACTOR





MAIN ENCLOSURE NFPA-79 LABEL

| | , | - francis | |
|-------------------|-------------|-----------|-----|
| MACHINE NAMEPLATE | | | · . |
| CUSTOMER: | | | |
| MACHINE NUMBER: | | | |
| PROJECTI | • | | |
| PURCHASE ORDER: | ж. ў | | |
| EAGLE PROJECT #: | <u>.</u> - | | |
| EAGLE SHIP DATE: | March, 2006 | | |
| VOLTAGE: 480 | | | • |
| AIR: 2 SCFM | | | |
| PHASE: 3 AME | °S: 25 | | |
| HER | TZ: 60 | | |
| INTERRUPT RATING | 300000 A | | |

WIRE COLOR CODE

BLACK
LINE AND LOAD CIRCUITS AT LINE VOLTAGE
RED
AC CONTROL CIRCUITS

WHITE NEUTRAL CIRCUIT CONNECTIONS

VIOLET DC POSITIVE
BROWN DC NEGATIVE
YELLOW INTERLOCK CONTROL

YELLOW INTERLOCK CONTROL CIRCUITS WIRED FROM EXTERNAL SOURCE EQUIPMENT GROUND

BLUE DC CONTROL (IO TO DEVICE/AFTER CONTACT)

MA OR LOW VOLTAGE SIGNAL WIRING (TWISTED PAIRS)

BLACK SIGNAL POSITIVE CLEÁR SIGNAL NEGATIVE BARE SHIELD DRAIN WIRE

> TROLLED PINTED

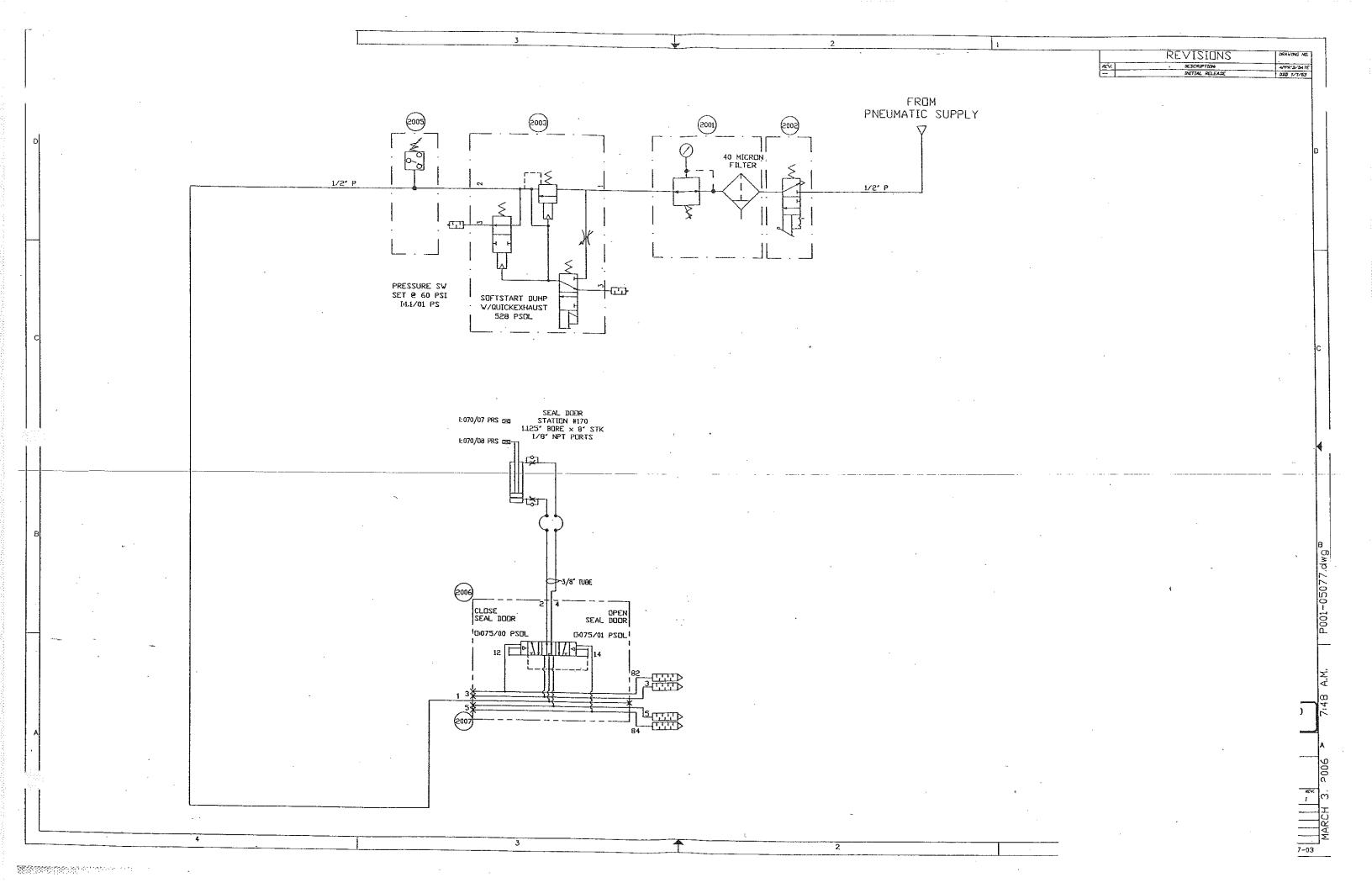
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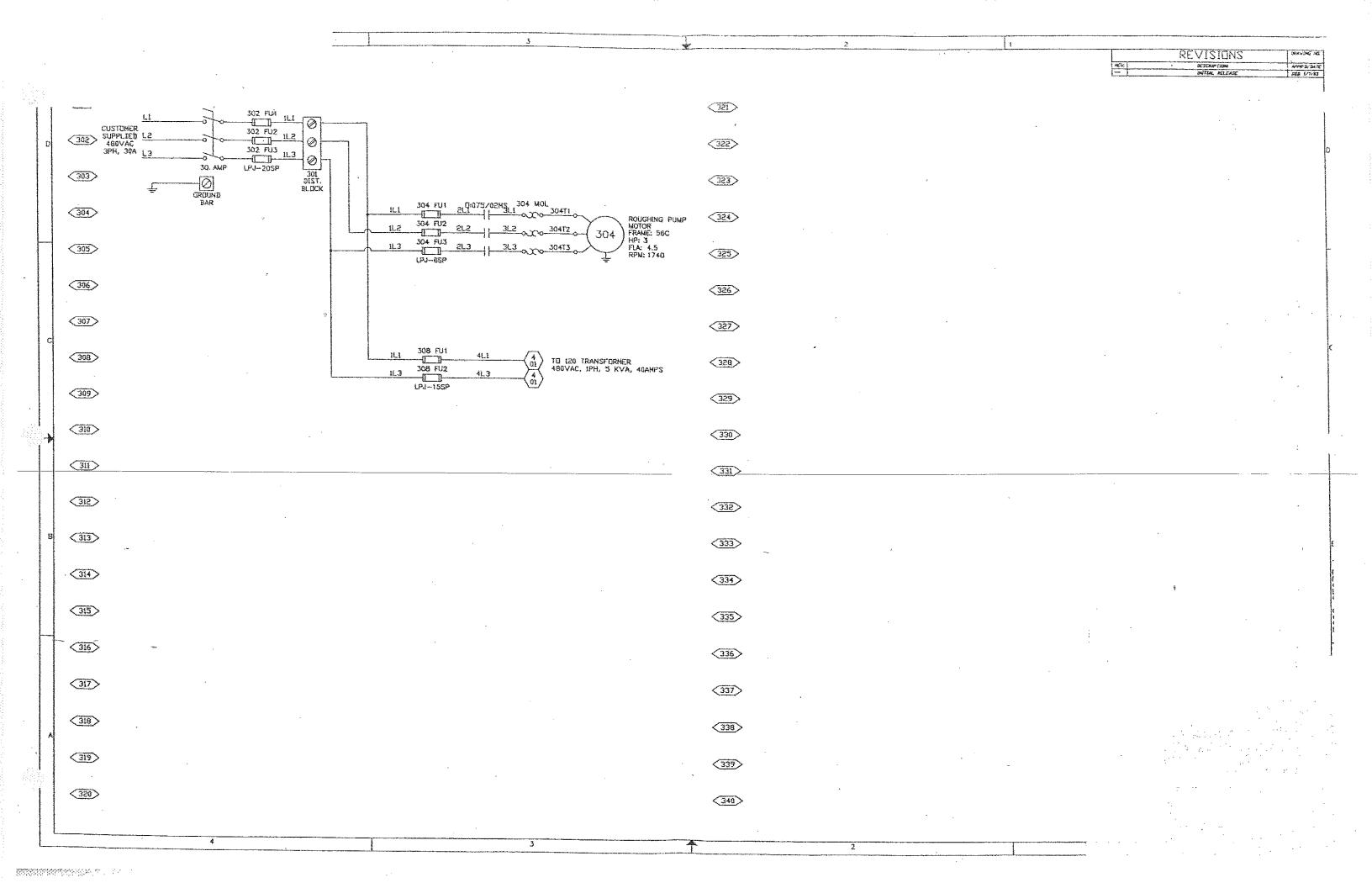
| OFF Designation PART # MAILEMEATURER SUPPLIES PLEATIO PART # MAILEMEATURER SUPPLIES PLEATIO PART # MAILEMEATURER PLEATIO PART # MAILEMEATURER PLEATION | | | | | | | and the second s |
|--|--------|---|--|--|--|---|--|
| 1002 8 TERMINA BASE, 3 WHITE 1734-183 ALLEM BRADLEY KENDAL 1 1 1 1 1 1 1 1 1 | 1 NEI# | QTY | DESCRIPTION | PART# | MANUFACTURER | SUPPLIER | RECOMMENDED SPARES |
| 1003 1 | 1001 | `1 · | ControlNet ADAPTER, FLEX IO | 1794-ACN15 | | KENDALL | 1 |
| 1003 1 NI-UT MODULE 16 PT, SINK FLEXIO 1764-1815 ALLEN RRADLEY CRONQAL 1 1 1 1 1 1 1 1 1 | 1002 | 8 | TERMINAL BASE, 3 WIRE | 1794-TB3 | | | İ |
| 1056 1 A FALLOR MUNDOUL, TEP, TLEX O. PT. 12 BT | 1003 | 4 | INPUT MODULE, 16 PT, SINK, FLEX IO | 1794-IB16 | | | 1 |
| 1000 1 | 1004 | $\ddot{3}$ | OUTPUT MODULE, 16 PT, FLEX IO | 1794-OB16 | | | 1 1 |
| 1000 1 EXTENDER CASE FOR THROMAN LASES, 34 176-CE3 ALLENSTRACEY SPISAL 1007 0 SPARE 1008 | 1005 | 1 | ANALOG INPUT MODULE, FLEX IO, 8 PT, 12 BIT | | | | 1 |
| 1007 | 1006 | 1 | EXTENDER CABLE FOR TERMINAL BASES, 3M | | The second secon | | ; |
| 1009 | 1007 | 0 | SPARE | and the second s | | | |
| 1010 | 1008 | 0 | SPARE | t vota | | | · · · · · · · · · · · · · · · · · · · |
| 1910 | 1009 | 1 | ControlNet ADAPTER, POINT IO | 1734-ACNR | ALLEN BRADLEY | KENDALL | 1 |
| 1011 1 LEMBRAUL BASE, WSPRING S PERMINALS, POINT 0 1724-TBS ALLENBRAULEY KENDALL 1012 0 SPARE 1014 2 Controllance COAX TAP, Y STYLE, RIGHT ANGLE 1726-TPYR ALLENBRAULEY KENDALL 1015 2 DNN PLIJO, RG-6 CABLE, BOX OF 5 85-45 IDEAL KENDALL 1016 2 DNN PLIJO, RG-6 CABLE, BOX OF 5 85-45 IDEAL KENDALL 1017 70 SPARE 1018 2 SPARE 1019 4 SPARE 1019 4 SPARE 1019 5 SPARE 10 | 1010 | 1 | RS232 ASCII INTERFACE MODULE, POINT IO | 1734-232ASC | ALLEN BRADLEY | | 1 |
| 1012 0 SPARE 1786-TPVR | 1011 | 1 | TERMINAL BASE, W/SPRING TERMINALS, POINT IO | 1734-TBS | | | ···· · - · · · · · · · · · · · · · · · |
| 1014 2 | | 0 | | · | | | |
| 1015 2 BUC PLUCS ROS CABLE, EDX OF 5 85.445 DEAL KENDALL 1016 30 COAX CABLE, 30 ft. 6300BLK WEST PENN KENDALL 1017 0 SPARE 1018 0 SPARE 1492 CB11H00 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | 1013 | 0 | SPARE | ** · · · · · · · · · · · · · · · · · · | ··· /- —— | . ————————————————————————————————————— | |
| 1016 30 COAX CABLE, 30 ft. 6300BLK WEST PENN KENDALL 1 1017 0 SPARE 1 1017 0 SPARE 1 1018 1 1 1018 1 1 1018 1 1 1 1018 1 1 1 1018 1 1 1 1 1 1 1 1 1 | | 2 | ControlNet COAX TAP, Y STYLE, RIGHT ANGLE | 1786-TPYR | ALLEN BRADLEY | KENDALL | 1 |
| 1017 | | 2 | BNC PLUG, RG-6 CABLE, BOX OF 5 | 85-545 | IDEAL | KENDALL | ···· |
| 1018 | 1 | 30 | COAX CABLE, 30 ft. | 6300BLK | | | |
| 1019 1 CIRCUIT BREAKER, 40 AMP, 1 POLE | L | 0 | | | | | |
| 1020 5 CIRCUIT BREAKER, 15 AMP, 1 POLE | 1018 | 0 | SPARE | | | , , , , , , , , , , , , , , , , , , , | 411 N 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1021 1 CIRCUTT BREAKER, 10 AMP, 1 POLE | | . 1: | | 1492-CB1H400 | ALLEN BRADLEY | KENDALL | 1 |
| 1022 4 CIRCUIT BREAKER, 5 AMP, 1 POLE | | 5 | | 1492-CB1H150 | ALLEN BRADLEY | KENDALL | 1 |
| 1023 5 CIRCUIT BREAKER, 2 AMP, 1 POLE | | 1 | <u></u> | 1492-CB1H100 | ALLEN BRADLEY | KENDALL | 1 |
| 1024 2 CIRCUIT BREAKER TAMPT POLE 1492-CB11010 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | 1 | 4 | The state of the s | 1492-CB1H050 | ALLEN BRADLEY | KENDALL | 1 |
| 1025 0 SPARE | | 5 | | : 1492-CB1H020 | ALLEN BRADLEY | KENDALL | 1 |
| 1026 0 SPARE | | 2 | restation and the contract of | 1492-CB1H010 | ALLEN BRADLEY | KENDALL | |
| 1027 | | 0 | | | | | |
| 1028 | | 0 | | | | | |
| 1029 0 SPARE 1030 1 ILLUMINATED PUSHBUTTON, GREEN LIGHT 800TC-PT/6C ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | L | <u>0</u> | | | | | |
| 1030 | | 0 | AND THE RESIDENCE OF THE PARTY | | | | |
| 1031 1 PUSH TO TEST PILOT LIGHT, WHITE LIGHT 800TC-PTI6C ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | B | 0 | | · · · · · · · · · · · · · · · · · · · | | | |
| 1032 0 SPARE 1033 0 SPARE 1034 1 2 - POSITION PUSH/PULL PUSHBUTTON, RED 800TC-FX6A5 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | | | | | | | <u> </u> |
| 1033 0 SPARE 1034 1 2-POSITION PUSH/PULL PUSHBUTTON, RED 800TC-FX6A5 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | | <u>.</u> | | 800TC-PT16C | ALLEN BRADLEY | KENDALL | <u> </u> |
| 1034 1 2-POSITION PUSH/PULL PUSHBUTTON, RED 800TC-FX6A5 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | | 0 | TO THE CONTRACT OF THE CONTRAC | | | | |
| 1035 0 SPARE 1036 0 SPARE 1037 0 SPARE 1038 4 CONTROL RELAY, 3 N.O., 1 N.C. CONTACTS, 24VDC COIL 100.000000000000000000000000000000000 | | | 7 NO THE RESIDENCE | | · · · · · · · · · · · · · · · · · · · | | |
| 1036. 0 SPARE 1037 1 SAFETY RELAY, 3 N.O., 1 N.C., 24V AC/DC 2440R-N23132 ALLEN BRADLEY KENDALL 1 1 1 1 1 1 1 1 1 | |] | TO THE PERSON OF | 800TC-FX6A5 | ALLEN BRADLEY | KENDALL | <u> </u> |
| 1037 1 SAFETY RELAY, 3 N.O., 1 N.C., 24V AC/DC | | <u> </u> | | | | | |
| 1038 | P | <u>-</u> | | | | | - 3 |
| 1039 2 AUXILLARY CONTACT BLOCK, 4 N.O. CONTACTS 100-FA40 ALLEN BRADLEY KENDALL 1 | | | | | | | 1 |
| 1040 | | 4 | | · | | | <u> </u> |
| 1041 1 CONTACTOR, 24VDC COIL, 9A 100-C09DJ10 ALLEN BRADLEY KENDALL 1 1042 1 SOLID STATE OVERLOAD RELAY, 3.7 - 12A RANGE 193-EA1FB ALLEN BRADLEY KENDALL 1 1043 2 ISOLATION RELAY, SOLID STATE, 24VDC COIL 700-HLS1Z24 ALLEN BRADLEY KENDALL 1 1044 1 ISOLATION RELAY, DPDT, 24VDC COIL 700-HK32Z24 ALLEN BRADLEY KENDALL 1 1045 1 SCREW TERMINAL SOCKET 700-HN122 ALLEN BRADLEY KENDALL 1 1046 0 SPARE 1047 0 SPARE 1047 0 SPARE 1047 1048 1049 | | · | | | | | 1 |
| 1042 1 SOLID STATE OVERLOAD RELAY, 3.7 - 12A RANGE 193-EA1FB ALLEN BRADLEY KENDALL 1 1043 2 ISOLATION RELAY, SOLID STATE, 24VDC COIL 700-HLS1Z24 ALLEN BRADLEY KENDALL 1 1044 1 ISOLATION RELAY, DPDT, 24VDC COIL 700-HK32Z24 ALLEN BRADLEY KENDALL 1 1045 1 SCREW TERMINAL SOCKET 700-HN122 ALLEN BRADLEY KENDALL 1046 0 SPARE SPARE 4 ALLEN BRADLEY KENDALL | | 1 | | | | | 1 |
| 1043 2 ISOLATION RELAY, SOLID STATE, 24VDC COIL 700-HLS1Z24 ALLEN BRADLEY KENDALL 1 1044 1 ISOLATION RELAY, DPDT, 24VDC COIL 700-HK32Z24 ALLEN BRADLEY KENDALL 1 1045 1 SCREW TERMINAL SOCKET 700-HN122 ALLEN BRADLEY KENDALL 1 1046 0 SPARE 1047 0 SPARE 1048 | | 1 | | | | | 1 |
| 1044 1 ISOLATION RELAY, DPDT, 24VDC COIL 700-HK32Z24 ALLEN BRADLEY KENDALL 1 1045 1 SCREW TERMINAL SOCKET 700-HN122 ALLEN BRADLEY KENDALL 1046 0 SPARE 1047 0 SPARE | | <u>_</u> | | | | | |
| 1045 1 SCREW TERMINAL SOCKET 700-HN122 ALLEN BRADLEY KENDALL 1046 0 SPARE 1047 0 SPARE | | | | | | | <u>. </u> |
| 1046 0 SPARE 1047 0 SPARE | | <u>l</u> | | | | | <u> </u> |
| 1047 0 SPARE | 1 | <u> </u> | 788 11 | /00-HN122 | ALLEN BRADLEY | KENDALL | |
| 40.00 | | · ·—'. | | | | | |
| TO A CONTRACT ON A DATE OF THE SECOND STATE OF THE SECOND | | · ··· - · · · · · · · · · · · · · · · · | | 400 ED444 | | | |
| ACLENDIVALE (CITY OF THE PROPERTY OF THE PROPE | | · <u>'</u> | | 193-EPM1 | ALLEN BRADLEY | KENDALL | |
| 1049 4 DIN RAIL, 1 METER 199-DR1 ALLEN BRADLEY KENDALL | | | DUCTION INTELLICE | 199-081 | ALLEN BRADLEY | KENDALL | |

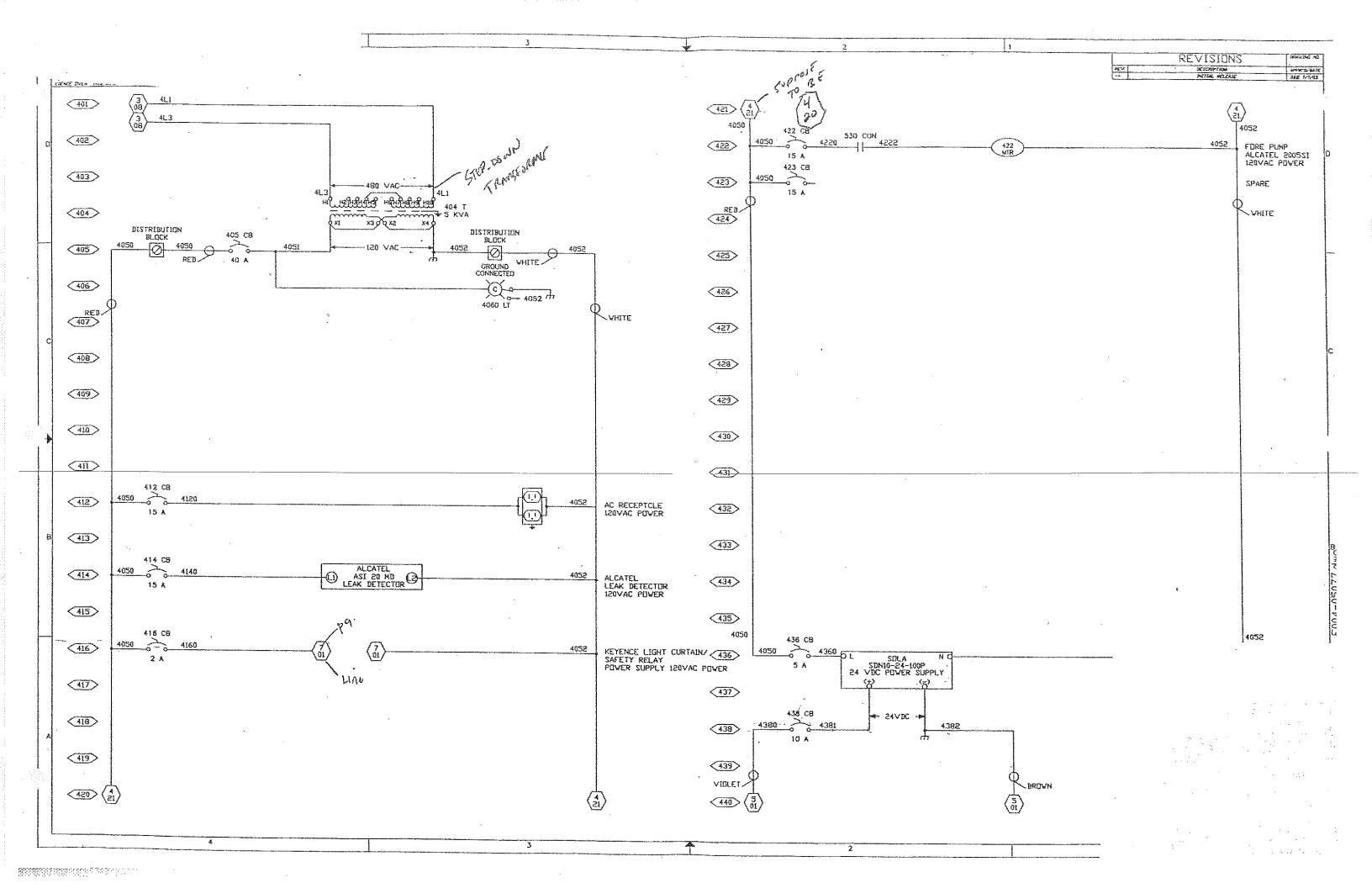
| [# -0 | QTY | DESCRIPTION | PART# | MANUFACTURER | SUPPLIER | DECOMMACNIDED OF . |
|------------------|--------------|---|--|---|--|--------------------|
| 50 | 100 | TERMINAL BLOCKS, 600V, 30A, DIN RAIL MOUNT | 1492-W4 | ALLEN BRADLEY | | RECOMMENDED SPAR |
| 51. : | 4 | END BARRIER | 1492-EB3 | ALLEN BRADLEY | KENDALL | |
| 52 | . 4 | END ANCHOR | 1492-EAH35 | ALLEN BRADLEY | KENDALL | · |
| 3 | .2 | STANDOFFS | 1492-N25 | | KENDALL | |
| 4 | 0 | SPARE | 1492-1425 | ALLEN BRADLEY | KENDALL | |
| 55 | 0 | SPARE | | | · · | - |
| 6 | 1 | LOAD SWITCH, 25A, FRONT MOUNTED, W/ OPERATING SHAFT | 10/1 525 1752 | ALLESI DO ADECLA | · | |
| 57 | 1 | LOAD SWITCH ACTUATOR, RED/YELLOW, TYPE N | 194L-E25-1753 194L-HE6N-175 | ALLEN BRADLEY | KENDALL | |
| 8 | .0 | SPARE | 194L-HEON-175 | ALLEN BRADLEY | KENDALL | |
| 9 | 0 | SPARE | The same of the sa | | THE S. P. S. P. S. | |
|) | 1 | TOWER LIGHT, RED, 24VDC, LED | OFFE DATE | *************************************** | | |
| 1 | 1 | TOWER LIGHT, GREEN, 24VDC, LED | 855E-24TL4 | ALLEN BRADLEY | KENDALL | |
| 2 | 1 | TOWER LIGHT, BLUE, 24VDC, LED | 855T-24TL3 | ALLEN BRADLEY | KENDALL | |
| 3 | 1 | SOUND MODULE, TWO CIRCUIT-TWO TONE | 855T-24TL6 | ALLEN BRADLEY | KENDALL | |
| 4 | 1 | 10cm POLE MOUNT BASE WITH CAP | 855E-B24TA3 | ALLEN BRADLEY | KENDALL | |
| 5 | ·· ō · · | SPARE | 855E-BPM10C | ALLEN BRADLEY | KENDALL | |
| 3 | 0 | SPARE | | | | |
| 7 | 0 | SPARE | | · | | |
| 3 | 8 | FUSE BLOCKS, TOUCH SAFE, 600V, 30A, LPJ FUSES | | | | 1 |
| 9 | 3 | FUSE, 6A, 600V | JT60030 | BUSSMAN | KENDALL | |
|) | 2 | FUSE, 15A, 600V | LPJ-6SP | BUSSMAN | KENDALL | 3 |
| [| 3 | FUSE, 20A, 600V | LPJ-15SP | BUSSMAN | KENDALL | 2 |
| 2 | 0 | ;SPARE | LPJ-20SP | BUSSMAN | KENDALL | 3 |
| 3 | <u> </u> | SPARE | | | | |
| 1 1 | <u>-</u> | SPARE | | | | |
| 5 : | | WIRING DUCT, 3x4, WHITE | | 1 | | |
| ř 3 | | WIRING DUCT, COVER, 3" | G-3X4WH6 | PANDUIT | KENDALL | |
| 7 | | WIRING DUCT, 2x4, WHITE | C3WH6 | PANDUIT | KENDALL | |
| | | WIRING DUCT, 1x4, WHITE | G-2X4WH6 | PANDUIT | KENDALL | |
| ,) | <u>'</u> | WIRING DUCT, COVER, 2" | G-1X4WH6 | PANDUIT | KENDALL | |
| ; ;- | - | WIRING DUCT, COVER, 2 WIRING DUCT, COVER, 1" | C2WH6 | PANDUIT | KENDALL | |
| | <u></u> | | C1WH6 | PANDUIT | KENDALL | |
| 2 | —— <u> </u> | ENCLOSURE, SCREW COVER, NEMA 4 | KL1511.210 | RITTAL | GREAT LAKES | |
| : } | <u></u> | ENCLOSURE COVER HINGE KIT | KL1592.000 | RITTAL | GREAT LAKES | |
| | 4 | ENCLOSURE QUICK RELEASE FASTENER | KL1593.000 | RITTAL | GREAT LAKES | |
| | <u>-</u> | PUSHBUTTON ENCLOSURE, 2 HOLE, FOR 30.5mm BUTTONS | E2PBX | HOFFMAN | KENDALL | i_ |
|) | 0 | SPARE | | 1 101 I INVIA | NENDALL | |
| | <u> </u> | SPARE | | | | |
| |] | DUPLEX RECEPTACLE, 15A, GRAY | 5262GY | COOPER | ICEND AS 4 | |
| · | 2 | SINGLE RECEPTACLE, 15A, GRAY | 5261GY | | KENDALL | |
| | 3 | MOUNTING BOX FOR ABOVE RECEPTACLE, 3 HOLES FOR WIRING, ALUMINUM | 1113 | COOPER | KENDALL | |
| | 2 | SINGLE RECEPTACLE COVER, WEATHER PROOF, GRAY | 1990 | COOPER | KENDALL | |
| | 11 | LUG, FOR GROUND CONNECTION | CB70-14-C | COOPER | KENDALL | |
| | 1 | GROUND BAR | GB-14 | PANDUIT | KENDALL | |
| | 0 | SPARE | GD-14 | ITE | KENDALL | |
| ļ ———— | . 1 | DC POWER SUPPLY, 24V, 10A, 120VAC IN | SDN 40 04 400D | | | |
| j | 1 | TRANSFORMER, 5KVA, 480VAC PRIMARY, 120VAC SECONDARY | SDN 10-24-100P | SOLA | KENDALL | 1 |
| 3 | 0 | SPARE | HS5F5AS | SOLA/HEVI-DUTY | KENDALL | |
| | 7 | DISTRIBUTION BLOCK, 1 POLE, FINGERSAFE, 160A | | | | |
| } | 1 | DK 3 PART DISTRIBUTION ENCLOSURE | 0356 200.21 | ABB | GREAT LAKES | |
| 9 | 0 | FRONT PANEL | 7712024 | RITTAL | GREAT LAKES | · |
|) | | SPARE | 1937200 | RITTAL | GREAT LAKES | |

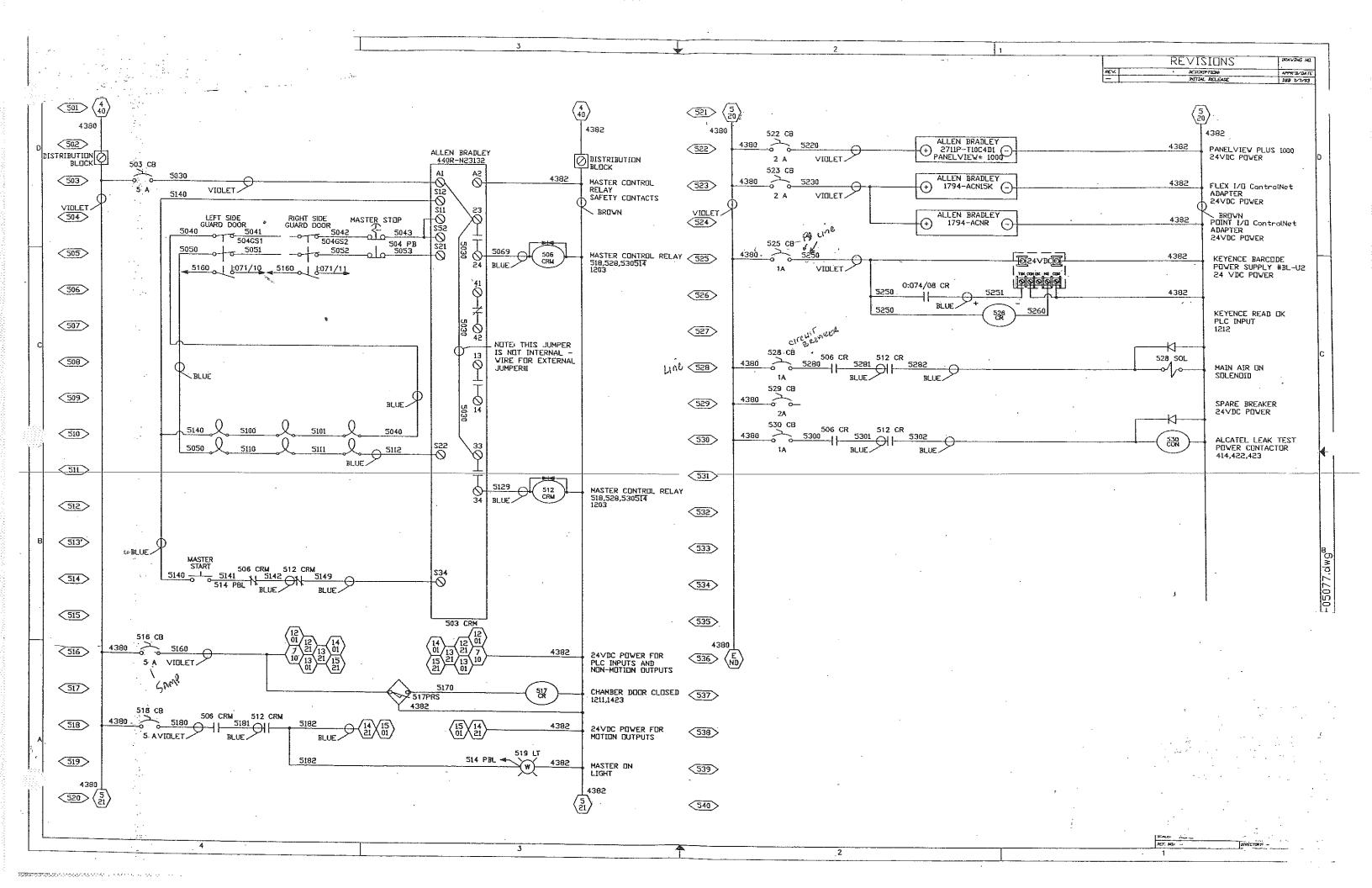
| | | 4 81 | 1014L | rx . |
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| <u>3/3/2006</u> | | | | |

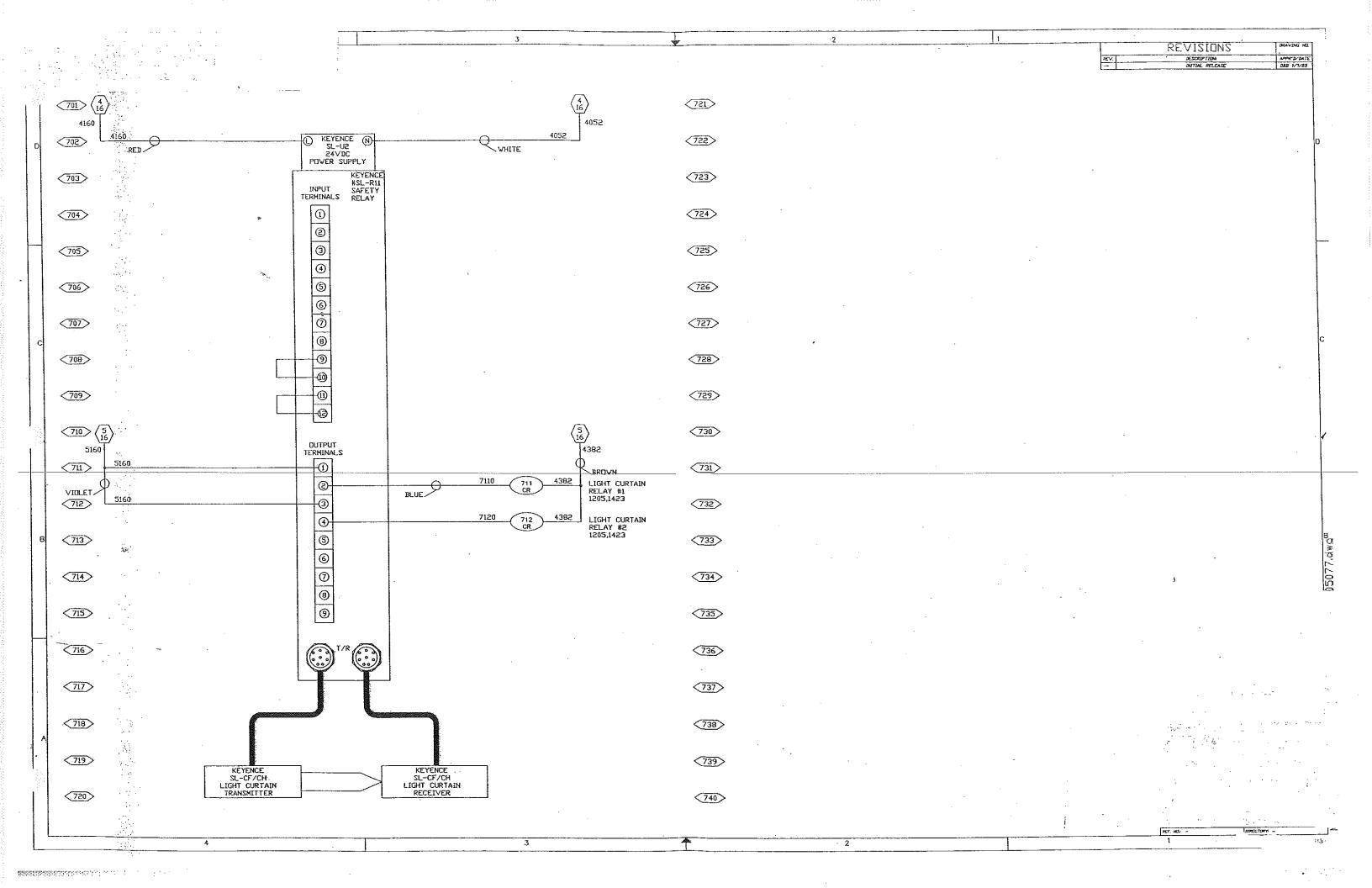
| <u>3/3/2006 </u> | | | | | | |
|--|-----|--|-----------------|---------------------------------------|------------------------|---|
| DET# | QTY | DESCRIPTION | PART# | MANUFACTURER | SUPPLIER | RECOMMENDED SPARES |
| 1101 | 0 | SPARE | • | · · · · · · · · · · · · · · · · · · · | | 112001111111111111111111111111111111111 |
| 1102 | . 1 | 400 SERIES ARM, VERTICAL MOUNT, ROTATE, DOUBLE PIVOT | ERGO-45-007-099 | ERGOTRON | ERGOTRON | |
| 1103 | 0 | SPARE | | | LICO INC. | |
| 1104 | 1 | ENCLOSURE, SINGLE DOOR, 60X24X12, ENVIROLINE | SCE-60EL2412LP | SAGINAW CONTROL & ENG. | SAGINAW CONTROL & ENG. | |
| 1105 | 1 | PANEL, 57X21 | SCE-60P24 | SAGINAW CONTROL & ENG. | SAGINAW CONTROL & ENG. | · · · · · · · · · · · · · · · · · · · |
| REF1 | . 1 | SAFETY RELAY UNIT | SL-R11 | KEYENCE | KEYENCE | ORDERED BY MECHANICAL |
| REF2 | 1 | CLASS 2 POWER SUPPLY | SL-U2 | KEYENCE | KEYENCE | ORDERED BY MECHANICAL |
| REF3 | 1 | SAFETY LIGHT CURTAIN, 30.7", 40 BEAM | SL-C40H | KEYENČE | KEYENCE | ORDERED BY MECHANICAL |
| REF4 | 1 | CABLE, 10M, PNP, MAIN UNIT PLUG - M12 | SL-PC10P | KEYENCE | KEYENCE | ORDERED BY MECHANICAL |
| REF5 | 2 | MOUNTING BRACKET FOR SL-C | OP-42347 | KEYENCE | KEYENCE | ORDERED BY MECHANICAL |

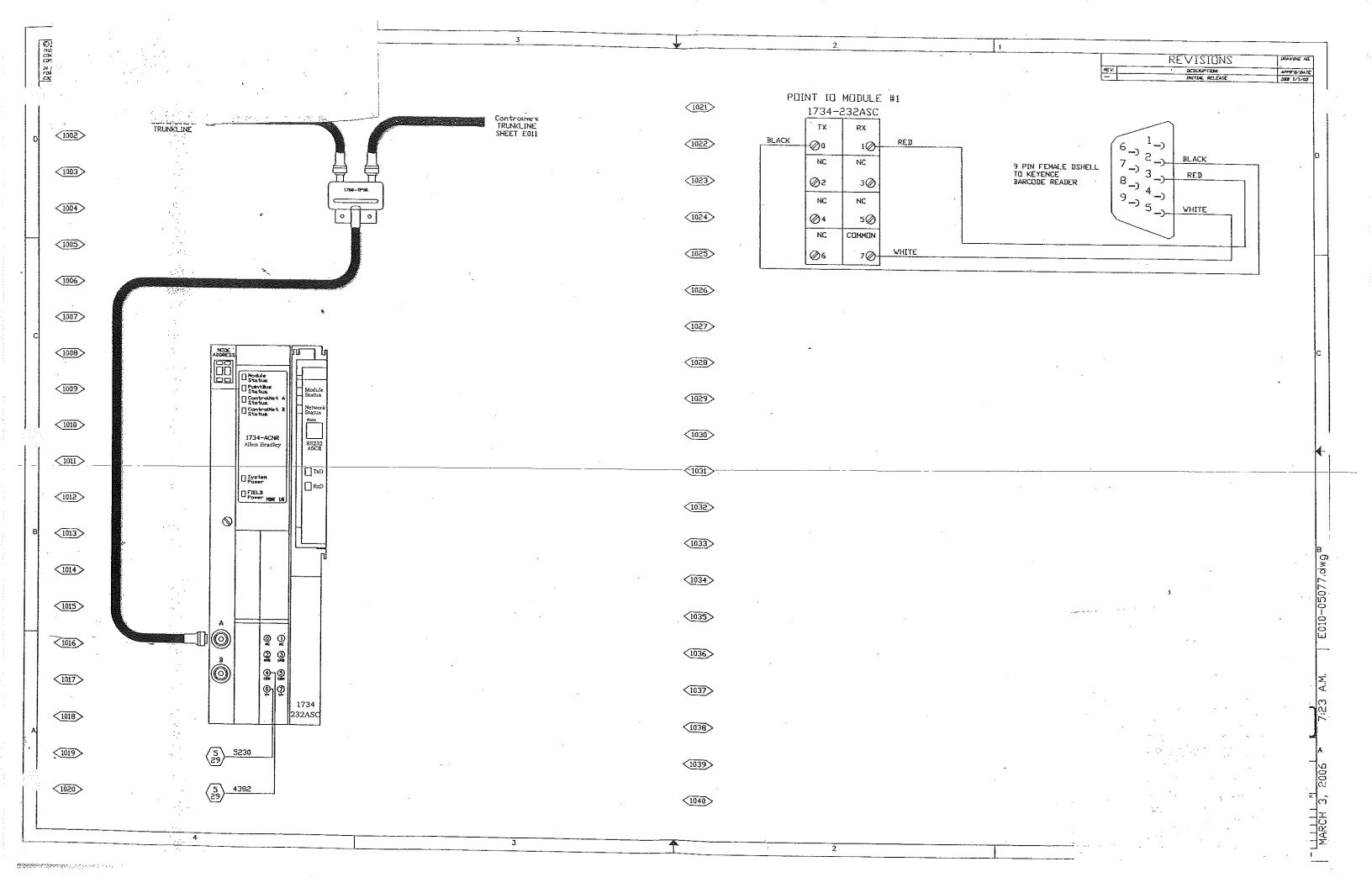


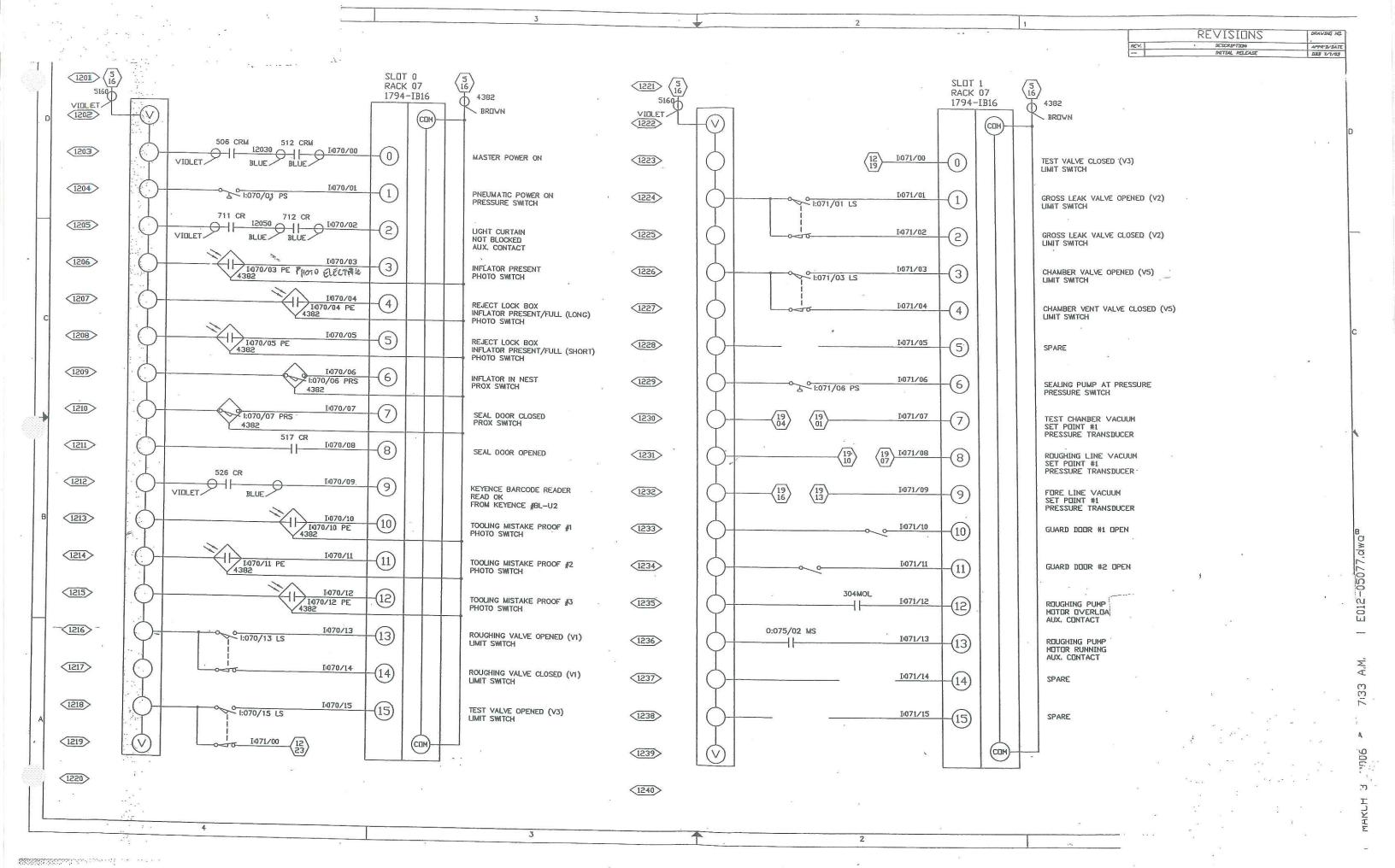


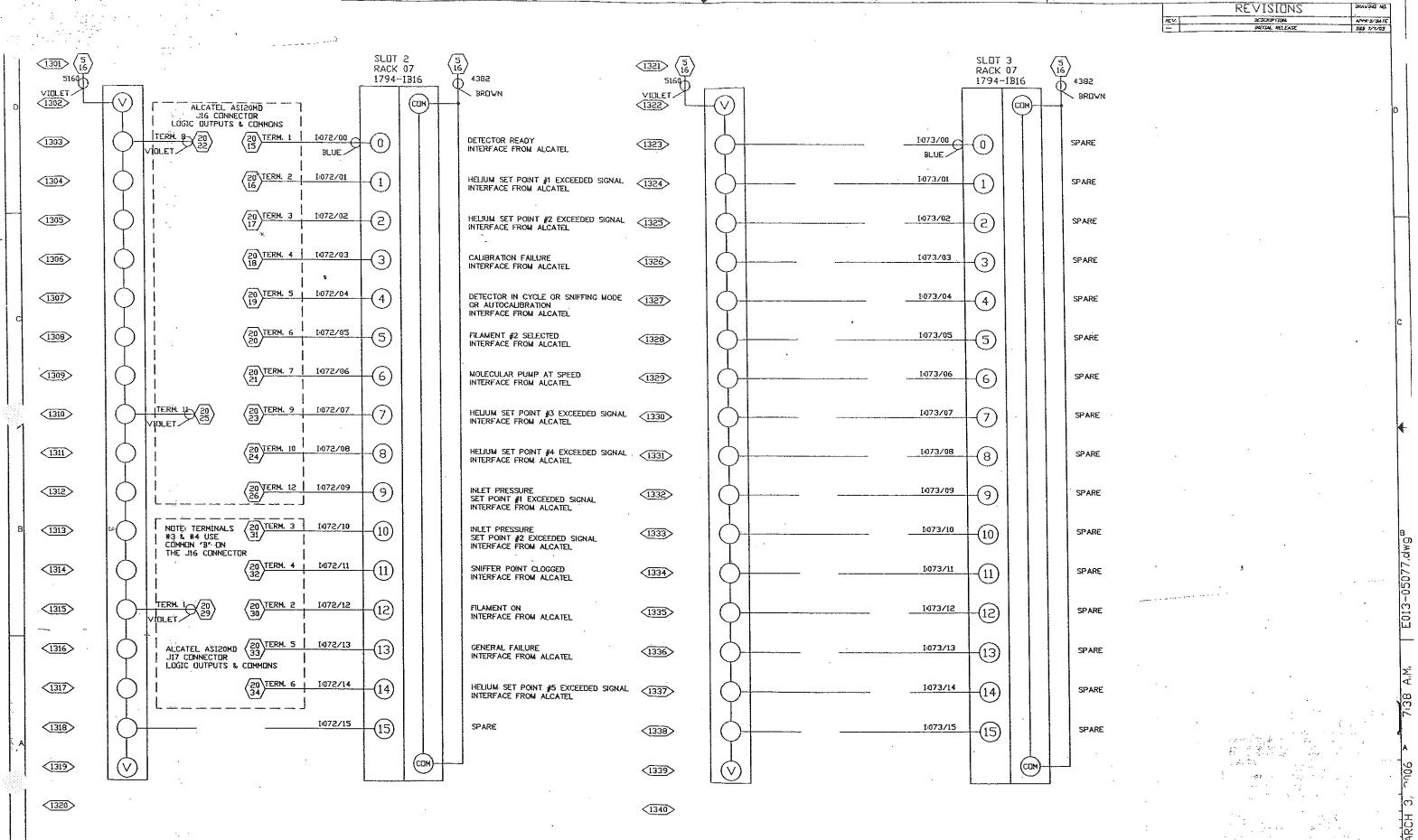


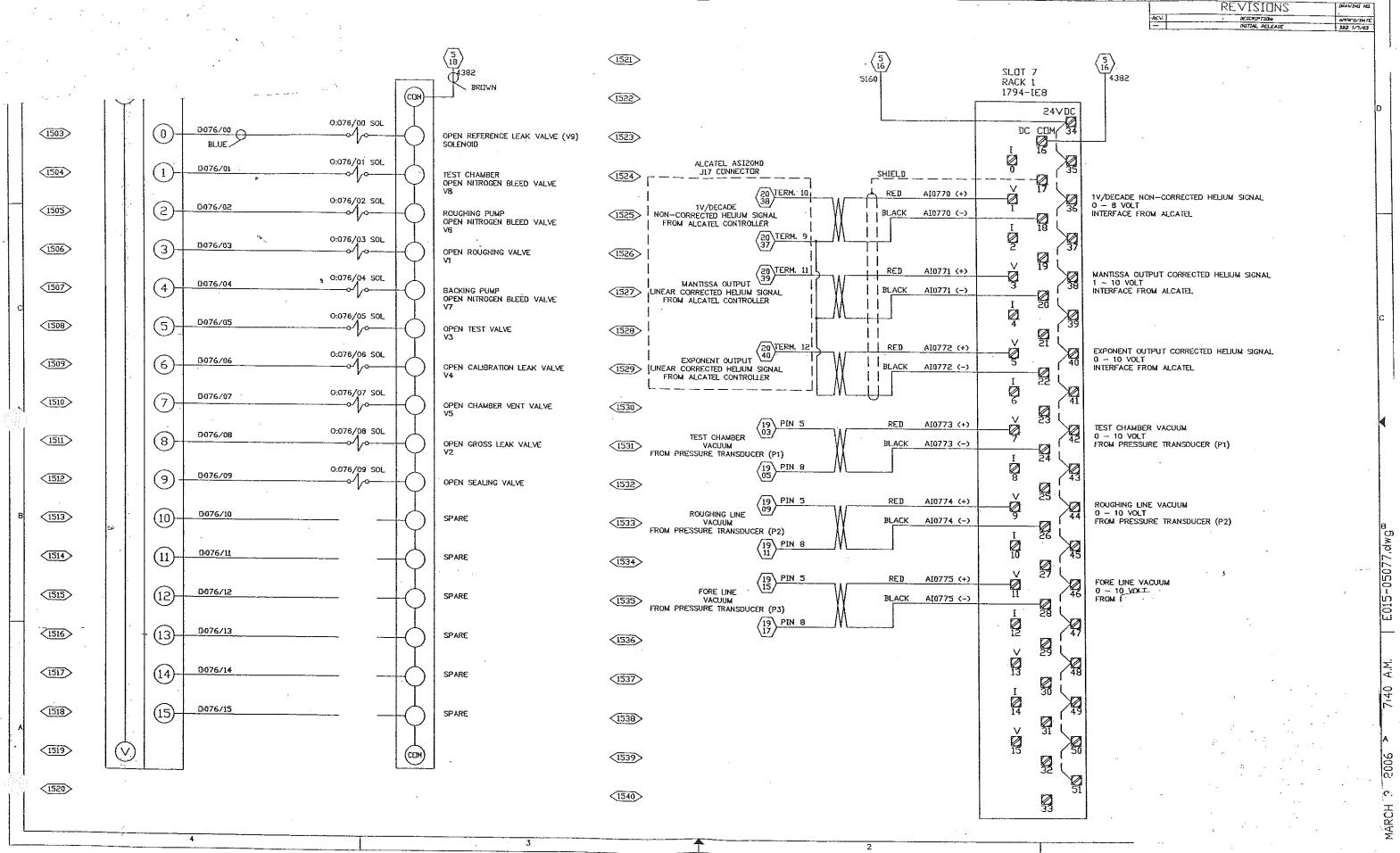




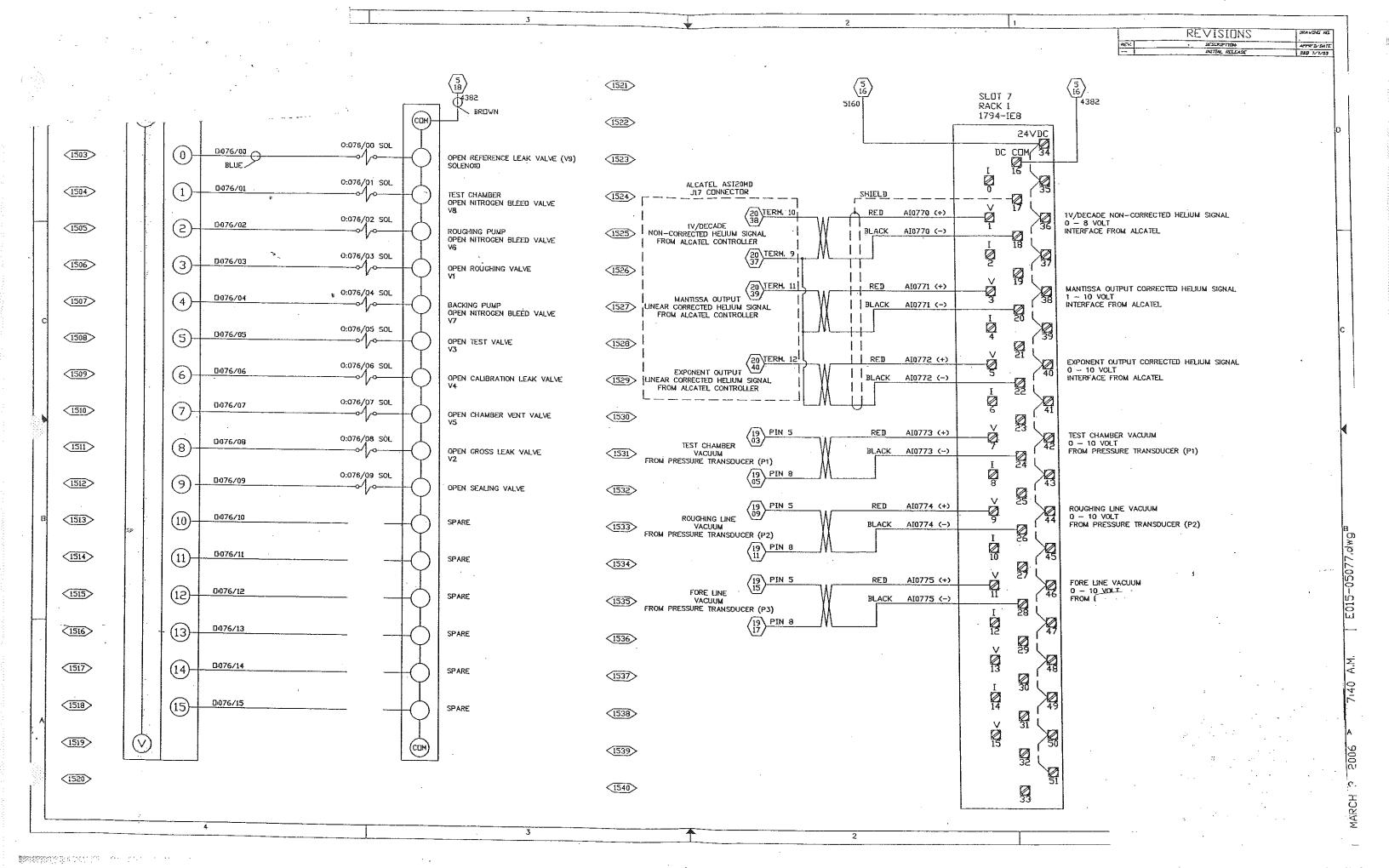


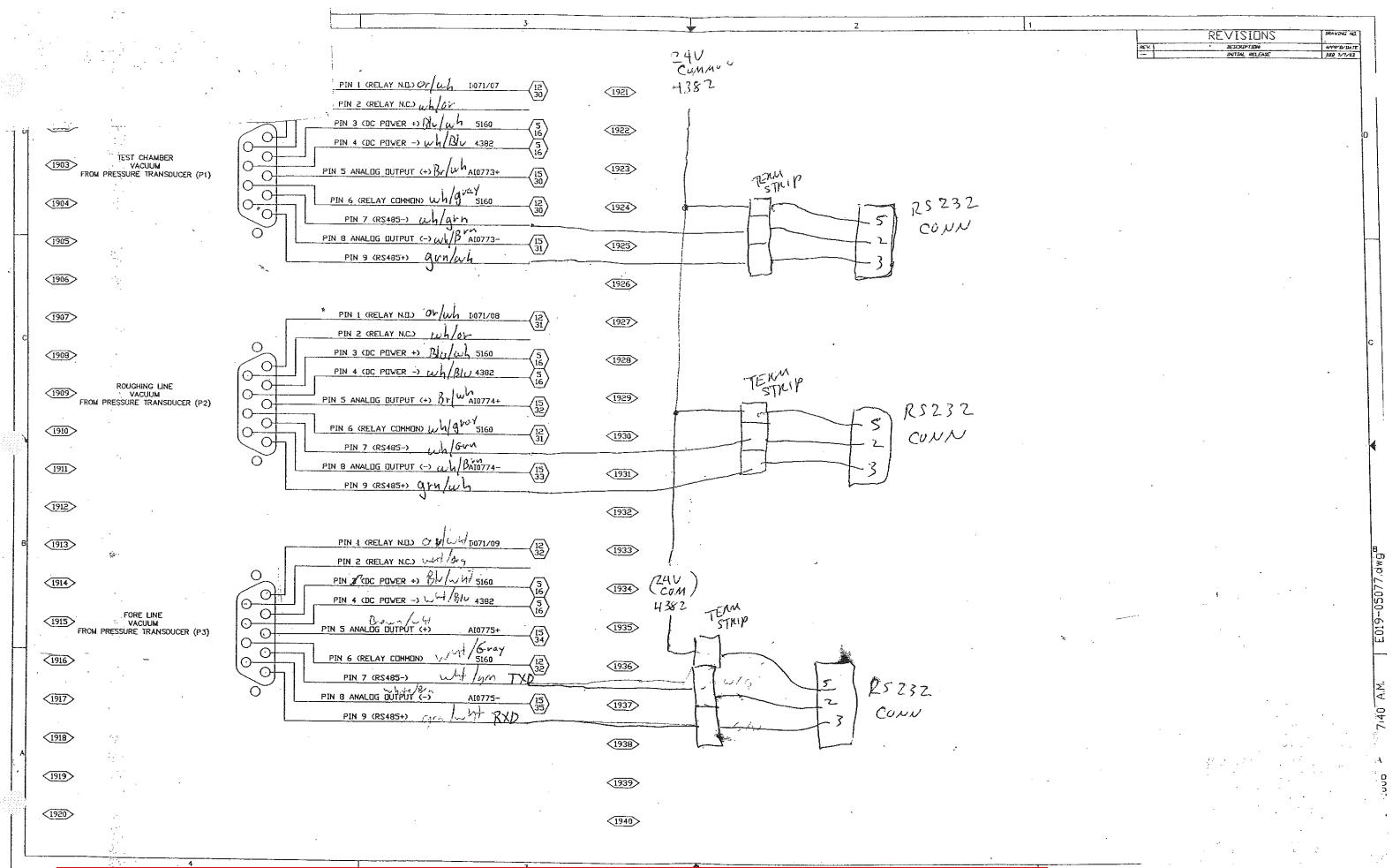






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