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WIRING COLORS OPTIONALLY FOLLOW 4-BAND RESISTOR COLOR CORRESPONDING TO WIRE NUMBERS AS FOLLOWS

COLOR CODES:

BK - BLACK - 0  
BN - BROWN - 1  
RD - RED - 2  
OE - ORANGE - 3  
YW - YELLOW - 4  
GN - GREEN - 5  
BE - BLUE - 6  
VT - VIOLET - 7  
GY - GRAY - 8  
WE - WHITE - 9

STRIPE CODES:

SOLID COLOR/STRIPE COLOR  
EXAMPLE: WHITE WITH BLACK STRIPE = WE/BK

WIRING INFO. UNLESS SPECIFIED:

FOR SIGNAL LINES USE 22AWG WHITE (WE) OR WIRE COLORS AS SPECIFIED  
FOR GROUND LINES USE EITHER BLACK (BK) OR GRAY (GY)  
FOR PROTECTIVE EARTH (PE)/MAINS GROUNDING, USE GREEN (GN) OR GREEN/YELLOW (GN/YW)  
WIRING TO BE STRANDED CONSTRUCTION  
FOR THREE PHASE WIRING USE THE FOLLOWING:  
L1 - BLACK (BK)  
L2 - RED (RD)  
L3 - WHITE (WE)

OPTIONAL DC POWER WIRING COLORS:

24VDC - BLUE (BE)  
12VDC - YELLOW (YW)  
5VDC - RED (RD)

USE CRIMP FERRULES ON TERMINAL BLOCKS. PREPARE WIRE ENDS PER TERMINAL BLOCK  
MANUFACTURER'S INSTRUCTION

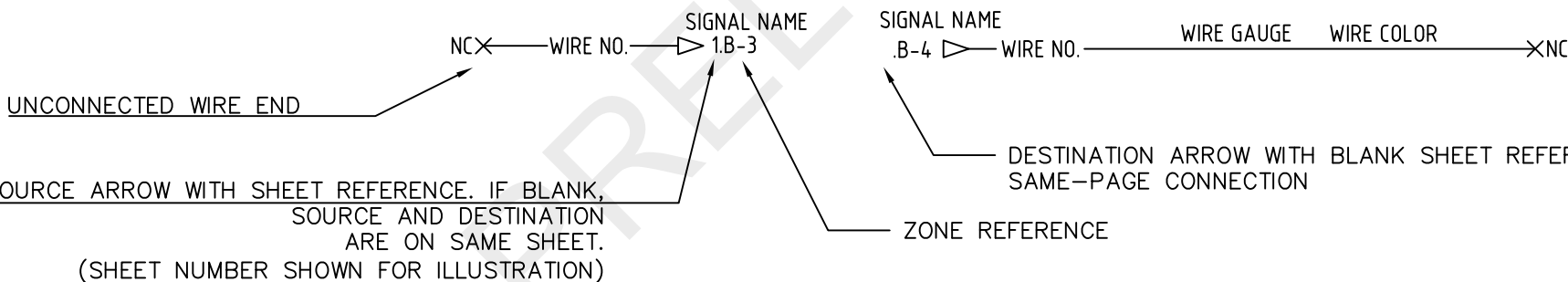
FOR 22AWG, USE 9210-1070  
FOR 18AWG, USE 9210-1071  
FOR 22AWG DOUBLE WIRES, USE 298-10411-ND  
USE RING TERMINALS ON TERMINAL POST CONNECTIONS

USE FORK TERMINALS WHERE REQUIRED

COVER ALL UNINSULATED RING AND FORK TERMINALS WITH HEATSHRINK TUBING  
ALL WIRES LABELED WITH HEATSHRINK LABELS

WIRES ARE LABELED WITH CONNECTIONS, SIGNAL, WIRE NUMBER, WIRE GAUGE AND COLOR.  
PARTS ARE LABELED WITH REFERENCE DESIGNATOR. REFER TO BOM  
SEE BELOW FOR EXAMPLE

SIGNAL SOURCE/DESTINATION, WIRE NUMBERS, COLORS, SIGNAL NAMES AND GAUGE MARKERS. EACH FIELD MAY BE  
RELOCATED DUE TO AVAILABLE SPACE. WIRE NUMBERS MAY BE OFFSET WITH A SHORT LEADER:



UNLESS SPECIFIED:

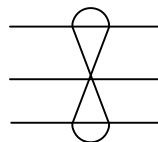
STAGGER CABLE SPLICES

WIRES AND TERMINALS THAT ARE NOT USED WILL BE DESIGNATED WITH AN X SYMBOL AND LABELED NC. REFER TO  
EXAMPLE BELOW.

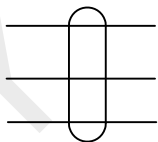
CRIMP COMPONENTS TO BE APPLIED WITH MANUFACTURER SPECIFIED CRIMP TOOLING AND INSPECTED PER  
MANUFACTURER'S INSTRUCTIONS

GROUND CONNECTIONS TO BE CLEANED OF PAINT, ANODIZING OR OTHER COATINGS TO INSURE PROPER CONNECTION  
TO FRAME, ENCLOSURE, MOTOR, AND OTHER MECHANICAL PARTS

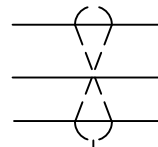
CABLE DESIGNATIONS. MULTIPLE NOTATIONS MAY BE USED PER CABLE, FOR INSTANCE SHIELDS WITH JACKET:



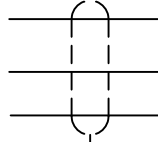
OVERALL TWIST,  
2 OR MORE WIRES



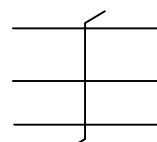
OVERALL JACKET,  
2 OR MORE WIRES



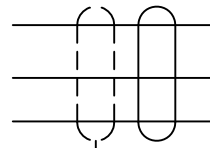
OVERALL TWIST WITH SHIELD,  
2 OR MORE WIRES,  
SHOWING SHIELD CONNECTION



OVERALL SHIELD,  
2 OR MORE WIRES,  
SHOWING SHIELD CONNECTION



WIRES BUNDLED OR ROUTED IN CABLE



OVERALL SHIELD AND JACKET,  
2 OR MORE WIRES,  
SHOWING SHIELD CONNECTION.  
JACKET MAY BE OMITTED ON DRAWING

RELEASED FOR  
PRODUCTION

DATE: INITIALS:

GENERAL NOTES

UNLESS OTHERWISE SPECIFIED:  
1. DO NOT SCALE DRAWING  
2. ALL DIMENSIONS ARE IN INCHES  
3. ALL DIMENSIONS APPLY AFTER  
PLATING OR COATING  
4. REMOVE ALL BURRS  
BREAK SHARP EDGES .020 MAX  
ALL MACHINED SURFACES 125

TOLERANCES

.X ±.1  
.XX ±.03  
.XXX ±.010

ANGLES:  
BENT ±2°  
MACHINED ±0°30'

|             |     |         |
|-------------|-----|---------|
| DRAFTER     | TSJ | 2/10/17 |
| CHECKER     |     |         |
| DSGN. ENGR. |     |         |
| ENGINEERING |     |         |
| QUALITY     |     |         |
| PRODUCTION  |     |         |
| APPROVED    |     |         |
| APPROVED    |     |         |

OKEANUS SCIENCE & TECHNOLOGY  
P.O. BOX 2978, REDMOND, WASHINGTON 98073 U.S.A.  
(425) 869-1834

ECO 2000 WINCH  
WIRING DIAGRAM W/ OPTIONS

SIZE: B CAGE CODE: OK2D8 DWG NO: 471-300-002

SCALE: NONE SHEET 1 OF 12

EPA NO: CHECK LEVEL: CONTROL CLASS: AUTOCAD GENERATED DRAWING  
FILE NAME: 471-300-002\_01

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| CABLE 1 MAX. LENGTH PER HP |           |              |           |              |
|----------------------------|-----------|--------------|-----------|--------------|
| HP                         | P/N       | 220VAC       | P/N       | 440VAC       |
| 5                          | 9780-0193 | 12AWG (50FT) |           |              |
| 7.5                        | 9780-0021 | 8AWG (50FT)  | 9780-0193 | 12AWG (75FT) |
| 10                         | 9780-0021 | 8AWG (25FT)  | 9780-0193 | 12AWG (50FT) |
| 10                         | 9780-0197 | 6AWG (75FT)  | 9780-0021 | 8AWG (75FT)  |

1 SEE 471-100-030 FOR CORRECT DISPLAY

1 SEE 471-100-001 FOR CORRECT MOTOR ASSY & DYNAMIC BRAKING RESISTOR

1 5HP QTY=4, 7.5 & 10HP QTY=6

1 5HP

1 7.5 & 10HP

| TAGNAME     | QTY       | LOC                               | DESC1                                                                                                      | PART NUMBER    |
|-------------|-----------|-----------------------------------|------------------------------------------------------------------------------------------------------------|----------------|
| -DS1        | REF.      | 5.D-5                             | DISCONNECTOR SWITCH (SEE TABLE)                                                                            | SEE TABLE      |
| -CB1        | REF.      | 5.D-4                             | CIRCUIT BREAKER (SEE TABLE)                                                                                | SEE TABLE      |
| -CB2        | REF.      | 12.B-4                            | CIRCUIT BREAKER, 5A, 80VDC, SINGLE POLE, LEVER ACTUATOR                                                    | 281-2514-ND    |
| -DISP1      | REF.      | 8.C-7                             | PAX2D UNIVERSAL DIGITAL INPUT METER, DUAL COUNTER W/ MATH FUNCTION, REDLID (SEE 471-100-030)               | 9280-0039      |
| -DISP1_RS   | REF.      | 8.C-7                             | RS485 COMMUNICATION OPTION CARD FOR PAX2D DISPLAY                                                          | 9280-0053      |
| -DISP2      | REF.      | 8.B-5                             | LCI90 ASSEMBLY W/ GIMBAL MOUNT (SEE 471-100-030)                                                           | 9280-0031,0032 |
| -DISP3      | REF.      | 11.A-6                            | LCI80, RUGGED PROGRAMMABLE CONTROLLER, 160X80 ELECTROLUMINESCENT DISPLAY (SEE 471-100-030)                 | 9280-0037      |
| -JOYSTICK1  | REF.      | 9.D-7 OR 12.D-7                   | JOYSTICK, SINGLE AXIS, BALL KNOB, SLIDE LOCK, SPRING TO CENTER, 10-30VDC, 0.0V NTRL +10V, 1.5A DIR AUX OUT | 9280-0038      |
| -M1         | REF.      | 6.C-5                             | MOTOR, WASHDOWN, CHEMI SHIELD PACKAGE                                                                      | REF.           |
| -BRK        | REF.      | 6.D-4                             | INTEGRATED BRAKE, CHEMI SHIELD PACKAGE                                                                     | REF.           |
| -TS         | REF.      | 6.C-4                             | MOTOR THERMAL SWITCH (PART OF MOTOR ASSY.)                                                                 | REF.           |
| -Q          | REF.      | 6.C-3                             | BRAKE RECTIFIER (PART OF MOTOR ASSY.)                                                                      | REF.           |
| -DBR1       | REF.      | 6.A-4                             | DYNAMIC BRAKING RESISTOR (SEE 471-100-001)                                                                 | REF.           |
| -PDB1-PDB6  | REF.      | 5.C-3                             | TERMINAL BLOCK, SPRING CAGE, FEED THROUGH,ST6,24-8AWG, 8.2mm, GRAY                                         | 9210-1428      |
| -RDB1-RDB6  | REF.      | 4.B-7                             | TERMINAL BLOCK, SPRING CAGE, FEED THROUGH,ST6,24-8AWG, 8.2mm, GRAY                                         | 9210-1428      |
| -BR15, BR16 | REF.      | 4.B-6                             | PLUG-IN BRIDGE, 2 POS., 8.2mm FOR TERMINAL BLOCK 9210-1428                                                 | 9210-1432      |
| -BR17, BR18 | REF.      | 4.B-6                             | PLUG-IN BRIDGE, 3 POS., 8.2mm FOR TERMINAL BLOCK 9210-1428                                                 | 9210-1433      |
| -PS1        | REF.      | 7.C-3                             | POWER SUPPLY, 180VAC TO 550VAC, 2-PHASE, 24V 5A OUTPUT, 120W                                               | 9260-0078      |
| -QS1        | REF.      | 8.D-1,10.D-1,11.D-1               | SENSOR, HALL EFFECT                                                                                        | 9280-0013      |
| -LP1        | REF.      | 10.B-8                            | LOAD PIN, 12,500 LBS SWL, IP66, BI-AXIAL, 1" DIA, RADIAL CABLE EXIT, 20' PIGTAIL, mV/V SIGNAL              | 9280-0042      |
| -RL1        | REF.      | 4.C-2                             | RELAY, BRAKE, SSR, 6A, 48-600VAC OUT, 4-32VDC IN, DIN RAIL                                                 | CC1770-ND      |
| -S1         | REF.      | 4.D-1                             | ASSEMBLY, EMERGENCY STOP, MUSHROOM PUSHBUTTON, CAN BE ILLUM.                                               | 9250-0000      |
| -LAMP       | REF.      | 4.D-2                             | LED MODULE W/ INTEGRATED LED 24V AC/DC, RED, SPRING-TYPE TER                                               | REF.           |
| -S2         | REF.      | 8                                 | ASSEMBLY, PUSHBUTTON, 22mm, ROUND, PLASTIC, BLACK, FLAT BUTT                                               | 9250-0016      |
| -S3         | REF.      | 12.B-7                            | ASSEMBLY, 2 POSITION ACTUATOR, 90 DEG., LATCHING, WHITE, SHORT ACTUATOR, 4 POS HOLDER, 4X 1ND+1NC, 22mm    | 9250-0024      |
| -VFD1       | REF.      | 4.C-7                             | VFD, MOVITRAC B                                                                                            | SEE TABLE      |
| -R1         | REF.      | 4.C-8                             | TERMINATING RESISTOR (PART OF VFD)                                                                         | REF.           |
| -INTF1      | REF.      | 4.C-8                             | DIGITAL EXPANSION MODULE, MCD7B MOTOR DRIVE                                                                | 9260-0065      |
| -KP1        | REF.      | 4.D-8                             | FBG11B BASIC KEYPAD FOR B SERIES VFD                                                                       | 9500-0065      |
| -TB1-TB47   | REF.      | 4.C-4, 7.C-6, 9.B-4               | TERMINAL BLOCK, DOUBLE-LEVEL SPRING-CAGE, AWG: 28-16, 4.2mm,                                               | 9210-1144      |
| -BR1        | REF.      | 7.C-6                             | PLUG-IN BRIDGE, FBS 5-4, 5-POSITION, RED                                                                   | 9210-1158      |
| -BR2        | REF.      | 7.C-6                             | PLUG-IN BRIDGE, FBS 10-4, 10-POSITION, RED                                                                 | 9210-0828      |
| -BR3-BR5    | REF.      | 8.C-4,10.C-4,11.C-4               | PLUG-IN BRIDGE, FBS 2-4, 2 POS., RED, 4.2mm                                                                | 9210-1160      |
| -BR6-BR8    | REF.      | 9.B-6                             | PLUG-IN BRIDGE, FBS 2-4, 2 POS., RED, 4.2mm                                                                | 9210-1160      |
| -BR9-BR11   | REF.      | 12.B-6                            | PLUG-IN BRIDGE, FBS 2-4, 2 POS., RED, 4.2mm                                                                | 9210-1160      |
| -BR12-BR14  | REF.      | 5.C-3                             | PLUG-IN BRIDGE, 2 POS., 8.2mm FOR TERMINAL BLOCK 9210-1428                                                 | 9210-1432      |
| -R2         | 2         | 8.C-4,10.C-4, OR 11.C-4, & 12.B-5 | RESISTOR, 10kOHM, 3W, 1% WW AXIAL                                                                          | RSB-10KRCT-ND  |
| -RX         | REF.      | 9.D-6                             | OPTIONAL, WIRELESS/WIRED BELLYPACK REMOTE CONTROL SYSTEM, SINGLE JOYSTICK, W/ DIGITAL DISPLAY              | REF.           |
| -CBL1       | SEE TABLE | 5.D-7                             | POWER CABLE                                                                                                | SEE TABLE      |
| -CBL2       | 8'        | 6.C-6                             | CABLE, 12/4 LOW CAPACITANCE VFD SHIELD POWER CABLE, W/ 16AWG BRAKE AND SIGNAL PAIR                         | 9780-0195      |
| -CBL10      | 8'        | 10.A-6                            | CABLE, 20AWG, 4 TWISTED SHIELDED PAIR, PVC JACKET, .336" NOM. DIA.                                         | 9780-0182      |

NOTES:

1 VARIABLE PARTS CONFIGURATION: SEE TABLE FOR CORRECT PART NUMBERS & OPTIONS PER WINCH MODEL NUMBER.

2 FOR PART QTY, REFERENCE BACK PLANE & ENCLOSURE ASSEMBLY DRAWINGS 471-100-029 & 471-100-030 RESPECTIVELY.

MODEL NUMBER CONFIGURATOR TABLE

| EXAMPLE  | -        | ECO2000-05-11-L420SLB-TD-WR  |                  |          |
|----------|----------|------------------------------|------------------|----------|
| SERIES   | DRIVE HP | B.D. LINE PULL IN 10S OF LBS | LW, CABLE & DRUM | OPTIONS  |
| ECO2000- | 05-      | 110-                         | L420SLB          | TD-WR-XX |

SERIES FRAME SIZE

DRIVE HORSEPOWER  
05=5HP, 07=7.5HP, 10=10HP

BARE DRUM SAFE WORKING LOAD (LINE PULL) IN TENS OF POUNDS:  
010=100 LBS, 110=1100 LBS, 200=2000 LBS

LEVELWIND CONFIG., CABEL DIAMETER IN INCHES:  
L=LEVELWIND INCLUDED, 420=0.420" CABLE DIAMETER, S=SLIPRING INCLUDED, LB=LEBUS COVER INCLUDED

OPTIONS:  
CUST=CUSTOM WINCH BASED ON AN ECO WINCH W/ A DESIGNATED TOP LEVEL DRAWING  
PD=LINE SPEED AND PAYOUT DISPLAY  
TD=LINE TENSION DISPLAY (LOAD PIN)  
TR=TETHERED REMOTE  
WR=WIRELESS REMOTE  
CR=COMBINATION WIRED/WIRELESS REMOTE  
L9=LCI90 DISPLAY W/ PAYOUT, TENSION  
L8=LCI80 DISPLAY W/ PAYOUT ONLY  
UN=MEETS UNOLS APPENDIX B REQUIREMENTS FOR CONFIGURED CABLE

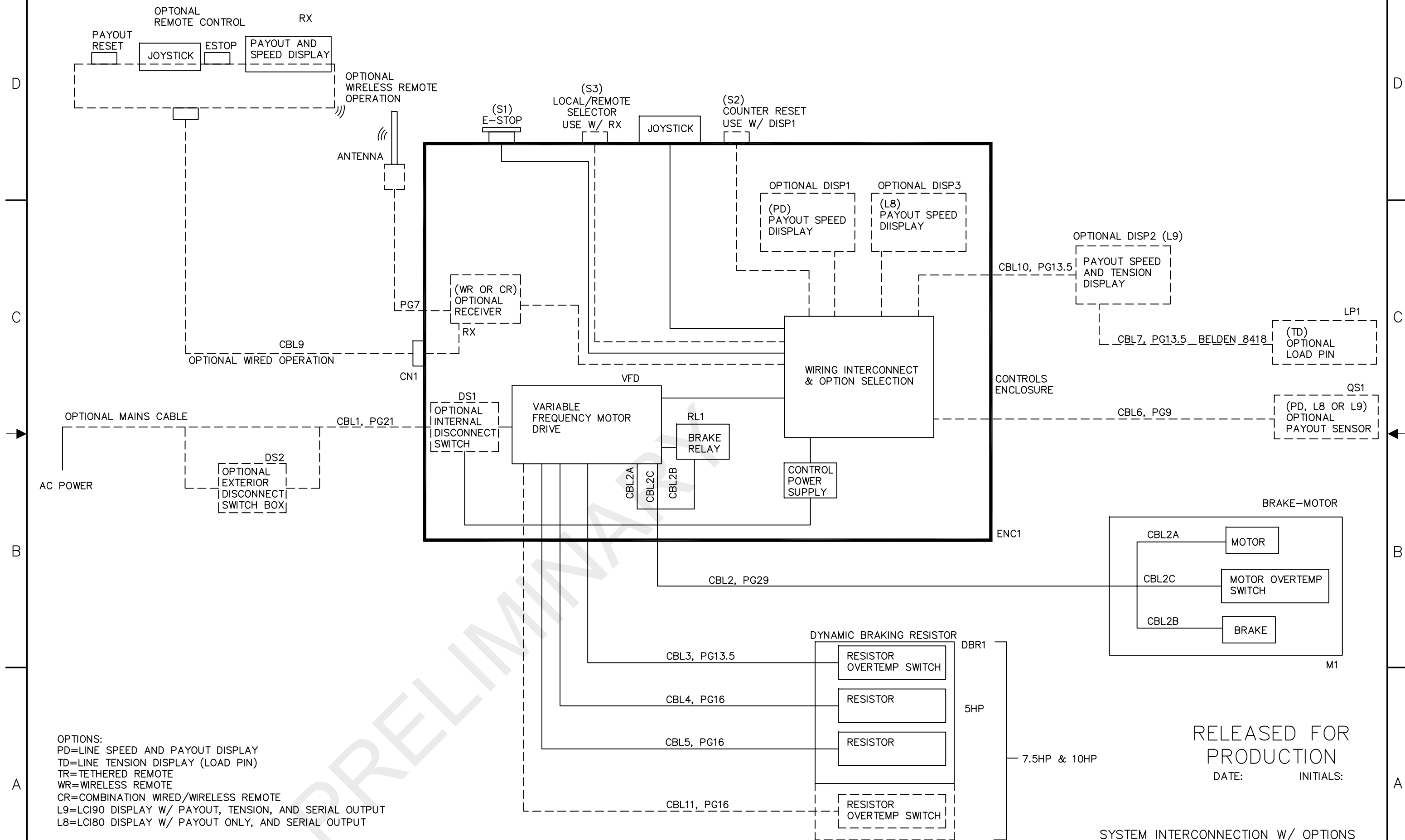
RELEASED FOR PRODUCTION

DATE: INITIALS:

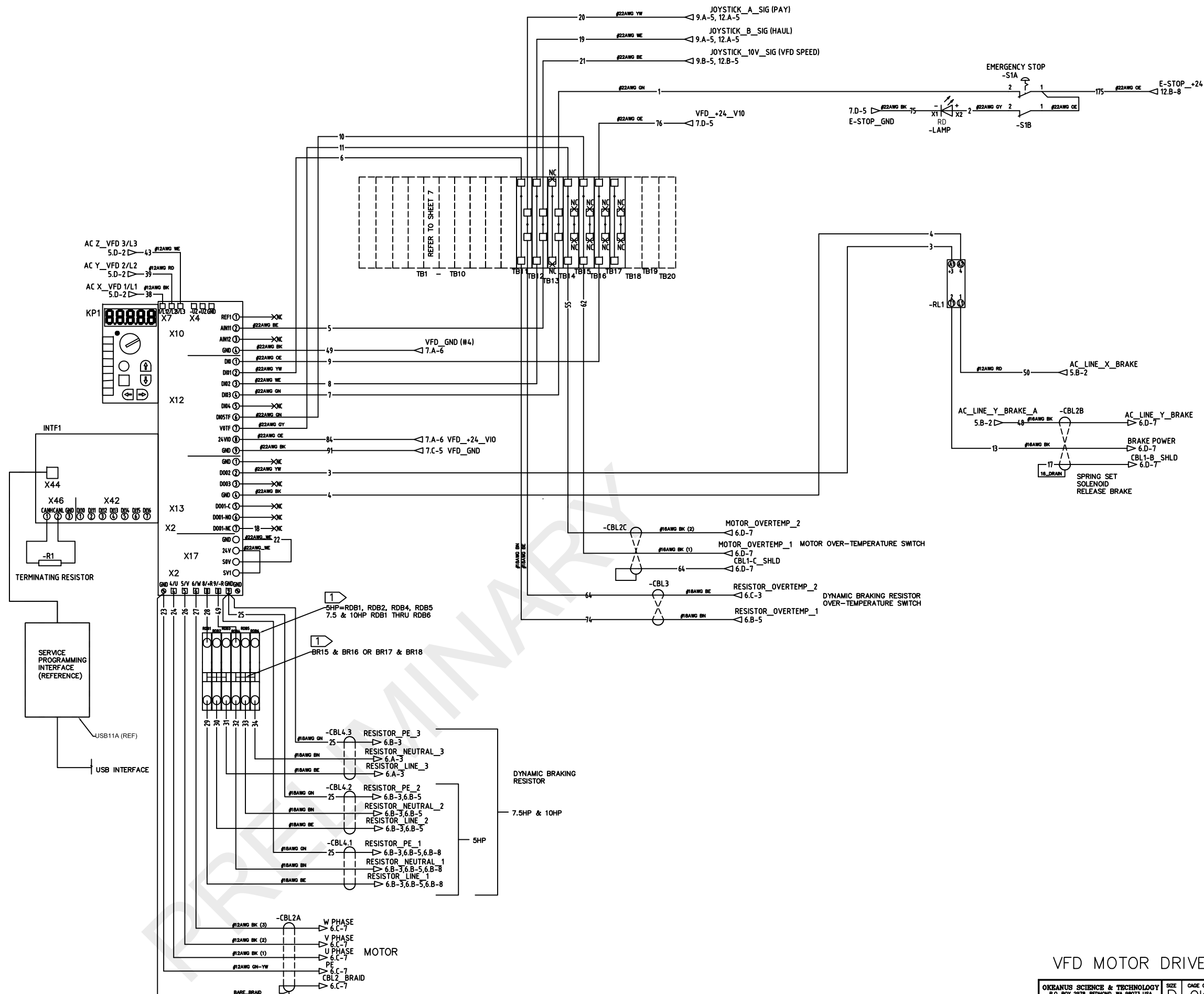
CONTROL SYSTEM PANEL ARRANGEMENT W/ VARIABLE OPTIONS

|                                                                                     |                 |              |                    |                        |
|-------------------------------------------------------------------------------------|-----------------|--------------|--------------------|------------------------|
| SOUND OCEAN SYSTEMS, INC.<br>P.O. BOX 2978, REDMOND, WA 98073 USA<br>(425) 889-1834 |                 | SIZE<br>D    | CAGE CODE<br>OK2D8 | DWG NO.<br>471-300-002 |
| DRAWN<br>TSJ                                                                        | DATE<br>2/10/17 | SCALE<br>NTS | SHEET 2 OF 12      |                        |

|         |             |               |                                                         |
|---------|-------------|---------------|---------------------------------------------------------|
| EPA NO: | CHECK LEVEL | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 471-300-002_02_ |
|         |             |               |                                                         |



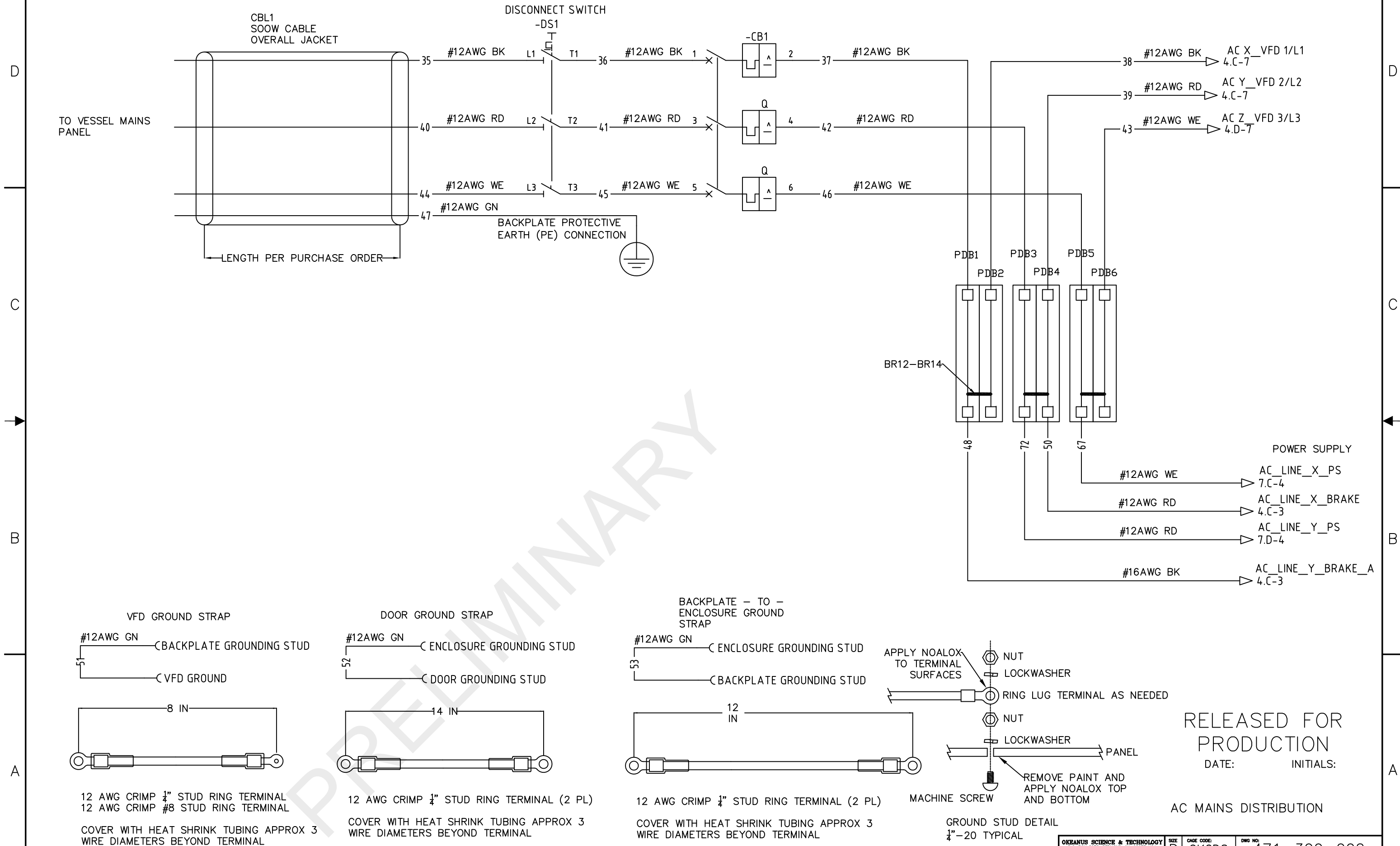
SYSTEM INTERCONNECTION W/ OPTIONS

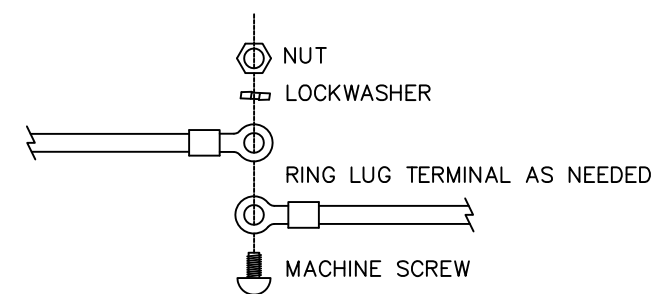
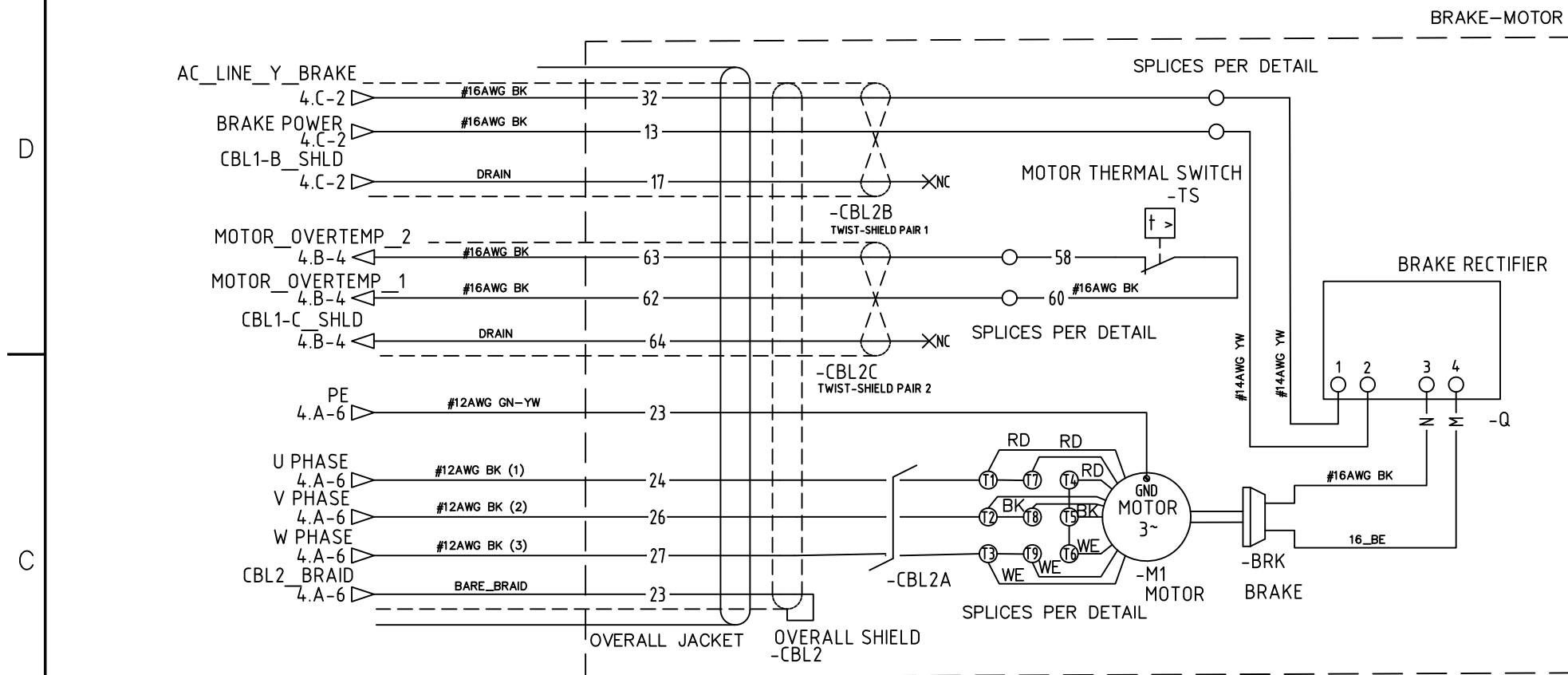


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DATE: INITIALS:

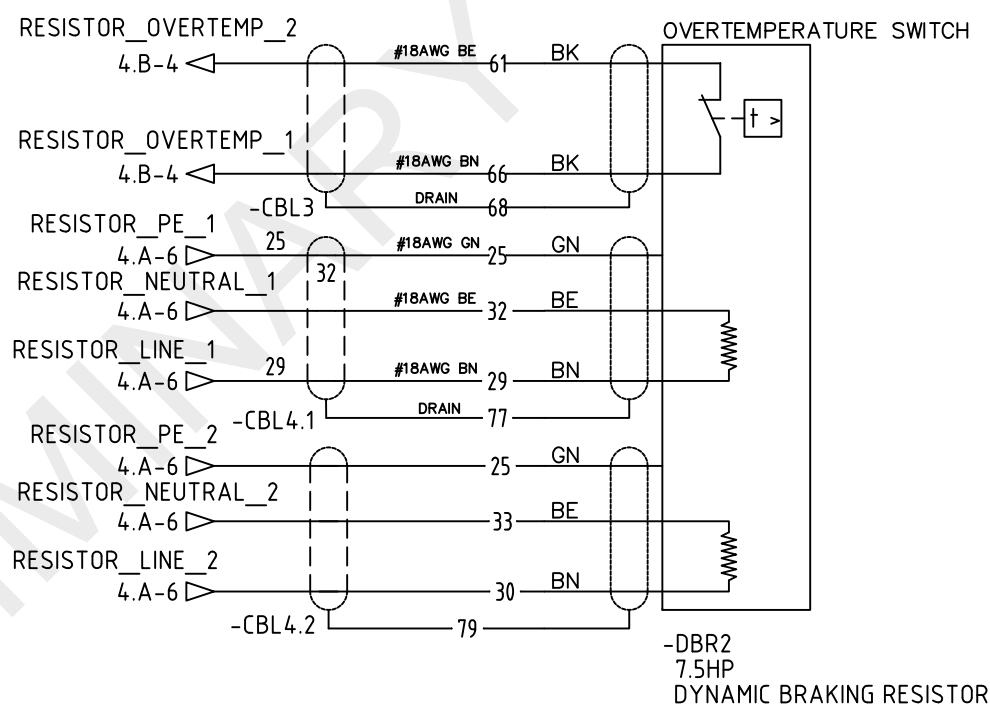
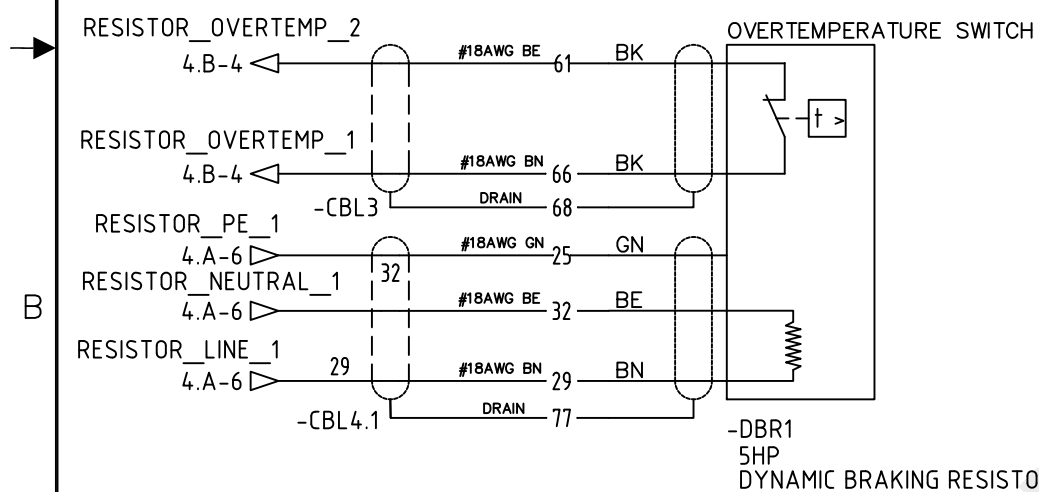
## VFD MOTOR DRIVE AND LOCAL CONTROL

|                                                                                        |             |               |                                                        |                        |               |
|----------------------------------------------------------------------------------------|-------------|---------------|--------------------------------------------------------|------------------------|---------------|
| OKRANUS SCIENCE & TECHNOLOGY<br>P.O. BOX 2978, REDMOND, WA 98073 USA<br>(425) 869-1834 |             | SIZE<br>D     | CAGE CODE<br>OK2D8                                     | DWG NO:<br>471-300-002 |               |
| DRAFTER<br>TSJ                                                                         | 2/10/17     | SCALE:<br>NTS |                                                        |                        | SHEET 4 OF 12 |
| EPA NO:                                                                                | CHECK LEVEL | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 471-300-002 04 |                        |               |

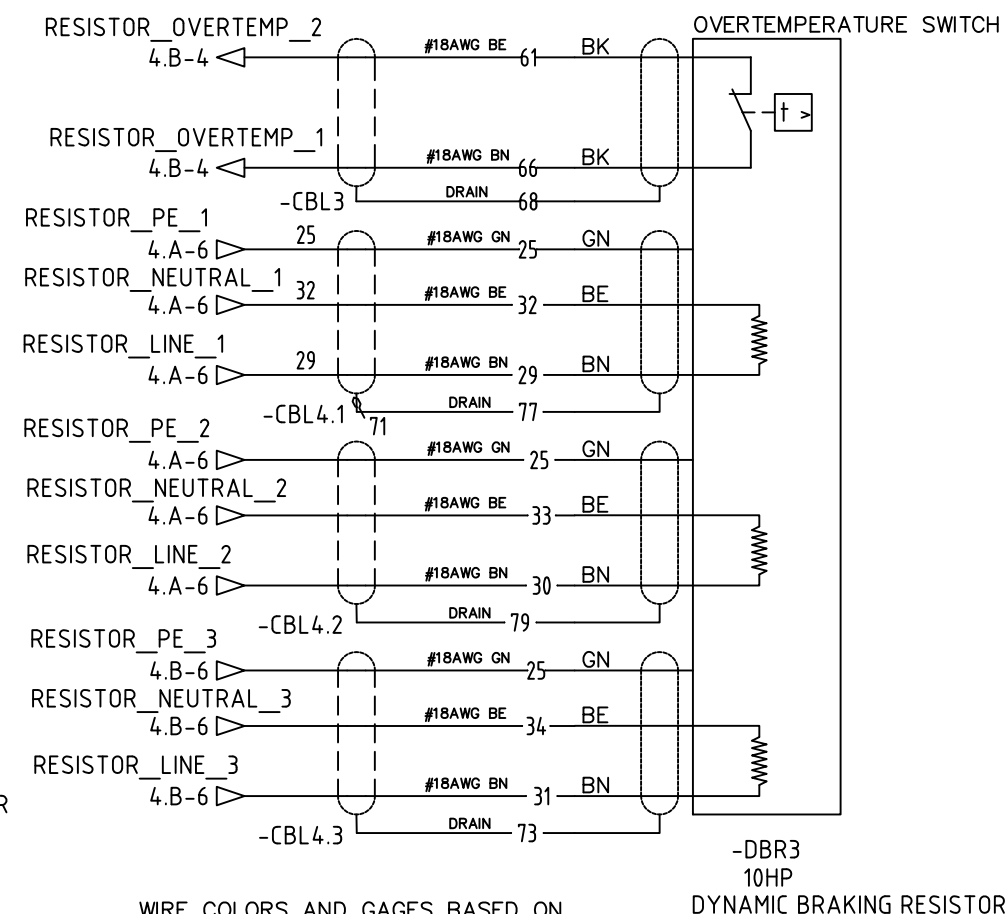




SPLICE DETAIL 2 OR 3 RING LUGS AS NEEDED, #8-32 HARDWARE, COVER WITH 3 OR MORE WRAPS OF ELECTRICAL TAPE, SCOTCH 88



WIRE COLORS AND GAGES BASED ON REO USA RESISTORS



WIRE COLORS AND GAGES BASED ON REO USA RESISTORS

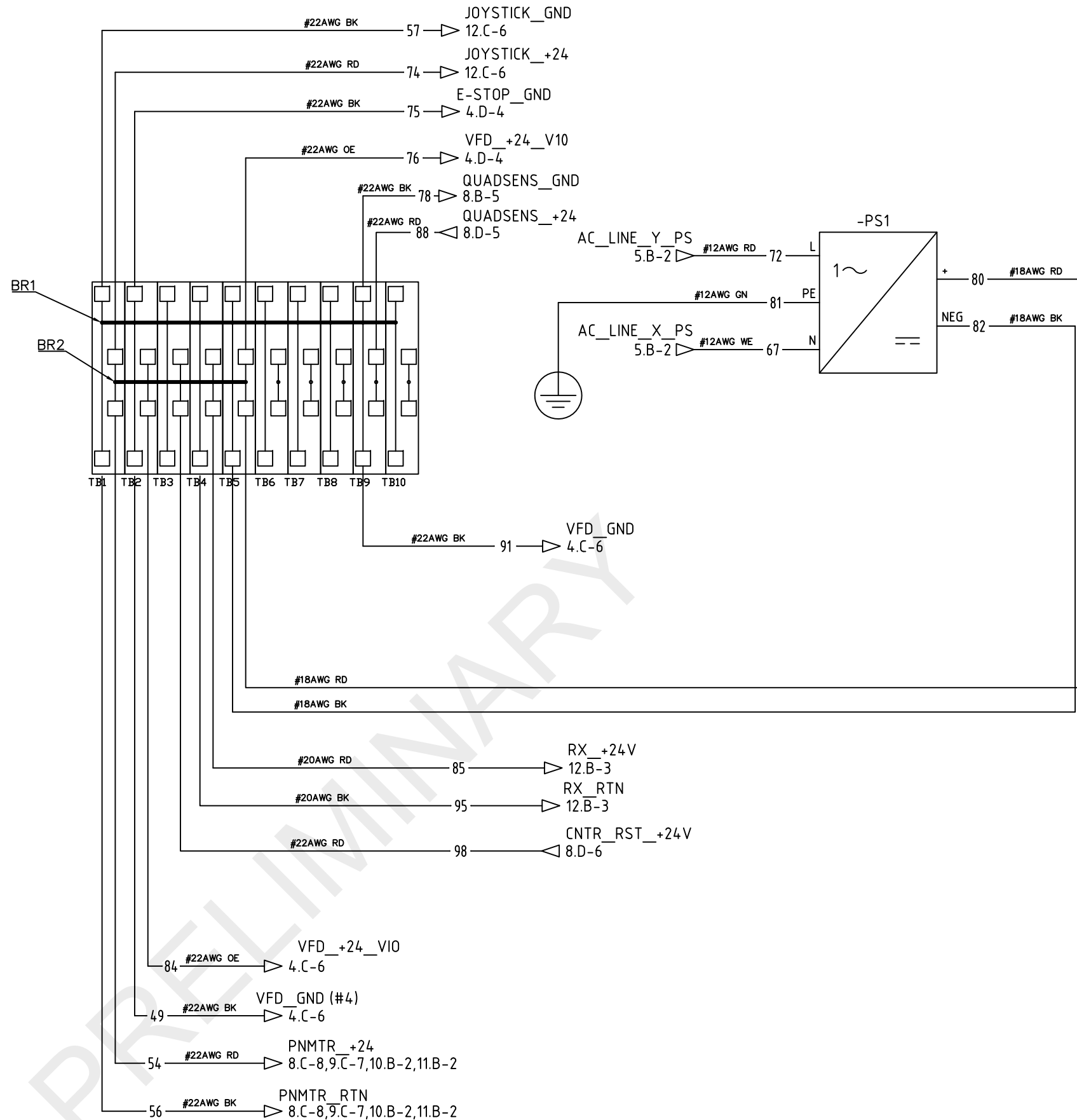
RELEASED FOR PRODUCTION

DATE:

INITIALS:

MOTOR AND DYNAMIC BRAKING RESISTOR

|                                                                                        |             |               |                                                        |                        |
|----------------------------------------------------------------------------------------|-------------|---------------|--------------------------------------------------------|------------------------|
| OKEANUS SCIENCE & TECHNOLOGY<br>P.O. BOX 2978, REDMOND, WA 98073 USA<br>(425) 889-1834 |             | SIZE<br>D     | CAGE CODE<br>OK2D8                                     | DWG NO:<br>471-300-002 |
| DRAWN<br>TSJ                                                                           | 2/10/17     | SCALE<br>NTS  | SHEET 6 OF 12                                          |                        |
| EPA NO:                                                                                | CHECK LEVEL | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 471-300-002_06 |                        |



RELEASED FOR PRODUCTION  
DATE: INITIALS:

DC POWER AND DISTRIBUTION

|                                                                                        |                 |               |                                                        |                        |
|----------------------------------------------------------------------------------------|-----------------|---------------|--------------------------------------------------------|------------------------|
| OKEANUS SCIENCE & TECHNOLOGY<br>P.O. BOX 2978, REDMOND, WA 98073 USA<br>(425) 889-1834 |                 | SIZE<br>D     | CAGE CODE<br>OK2D8                                     | DWG NO.<br>471-300-002 |
| DRAWN<br>TSJ                                                                           | DATE<br>2/10/17 | SCALE<br>NTS  | SHEET 7 OF 12                                          |                        |
| EPA NO.                                                                                | CHECK LEVEL     | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 471-300-002_07 |                        |

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PNMTR\_+24  
7.A-6 54  
PNMTR\_RTN  
7.A-6 93



CNTR\_RST\_+24V  
7.B-5 98

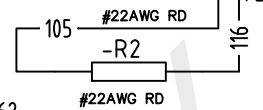
59 RX\_RS485\_A(+)  
12.A-3  
65 RX\_RS485\_B(-)  
12.A-3

RX\_CNTR\_RST  
12.C-6 162

QUADSENS\_GND  
7.D-5 78

QUADSENS\_+24  
7.D-5

96  
99  
100  
101  
#22AWG BK



TB21 TB22 TB23 TB24 TB25

BR3 - BR 5

CBL6 QUADRATURE SENSOR

-W7 -W7  
#22AWG RD VCC  
#22AWG BK GND  
#22AWG WE CHAN A  
#22AWG GN CHAN B  
SHIELD  
DRAIN

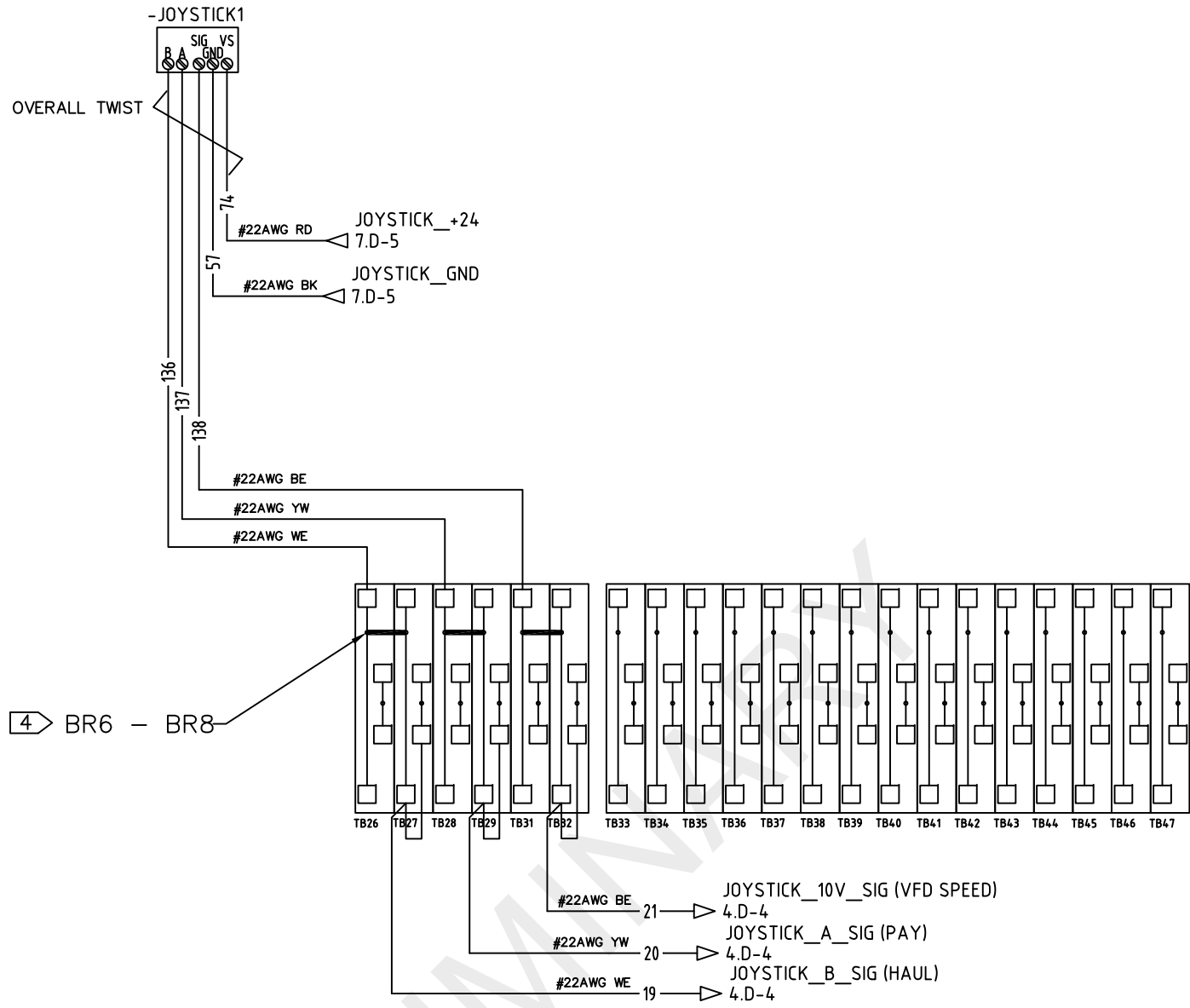
-QS1

RELEASED FOR  
PRODUCTION  
DATE: INITIALS:

3 DISP1\_RS ONLY INCLUDED IF WIRED/WIRELESS REMOTE  
OPTION -CR IS PURCHASED WITH PAYOUT DISPLAY

OPTION PD, RED LION CABLE DATA SENSOR AND READOUT

|                                                                                        |                 |               |                                                        |                        |
|----------------------------------------------------------------------------------------|-----------------|---------------|--------------------------------------------------------|------------------------|
| OKEANUS SCIENCE & TECHNOLOGY<br>P.O. BOX 2878, REDMOND, WA 98073 USA<br>(425) 889-1834 |                 | SIZE<br>D     | CAGE CODE<br>OK2D8                                     | DWG NO.<br>471-300-002 |
| DRAWN<br>TSJ                                                                           | DATE<br>2/10/17 | SCALE<br>NTS  | SHEET 8 OF 12                                          |                        |
| EPA NO:                                                                                | CHECK LEVEL     | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 471-300-002_08 |                        |



NOTES:  
4 BR6 - BR8 ARE OMITTED IF THE COMBINATION WIRED/WIRELESS REMOTE "OPTION CR" IS PURCHASED. SEE SHT12 FOR CORRECT BRIDGE INSTALLATION FOR CR OPTION.

RELEASED FOR PRODUCTION  
DATE: INITIALS:

LOCAL CONTROL

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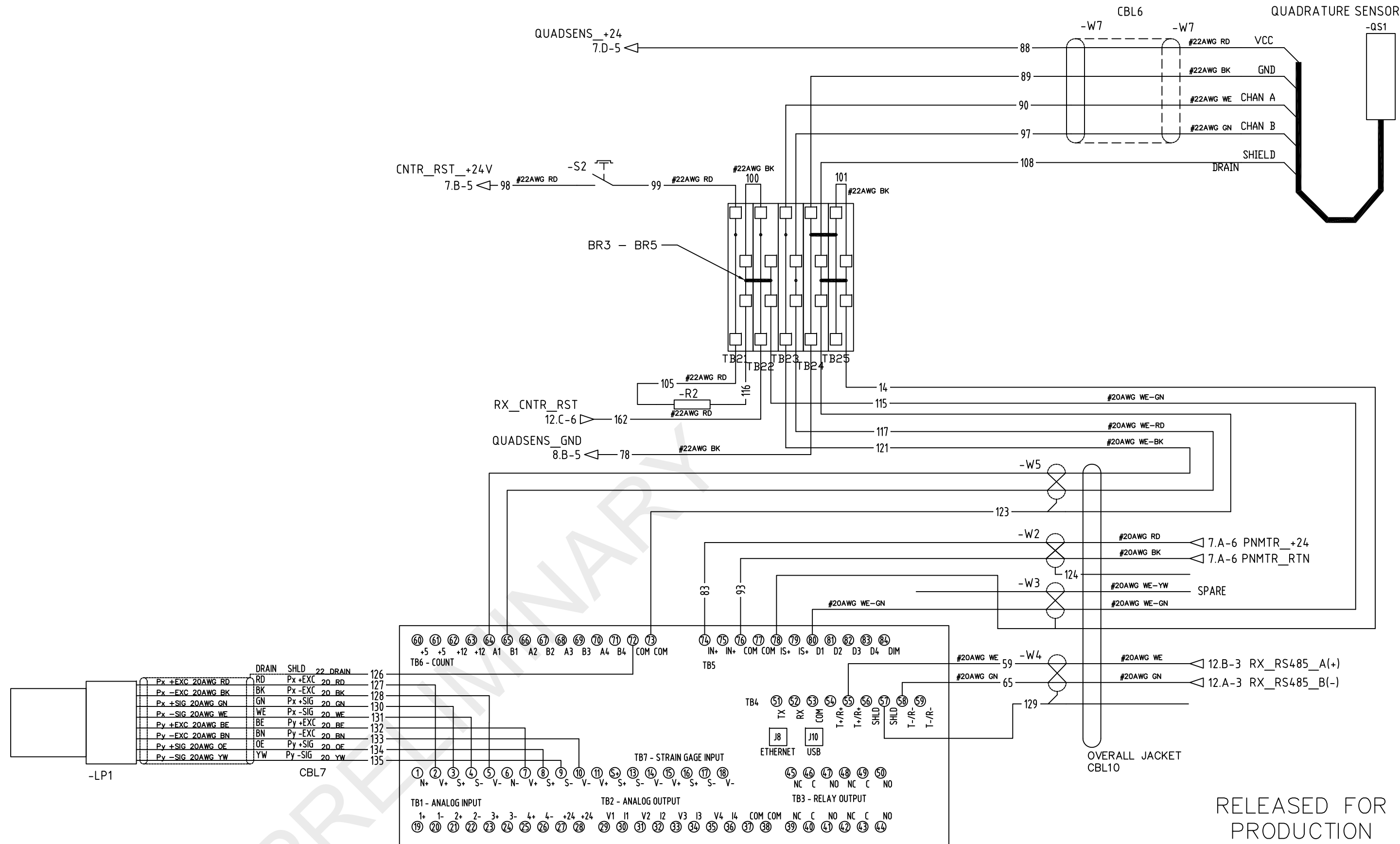
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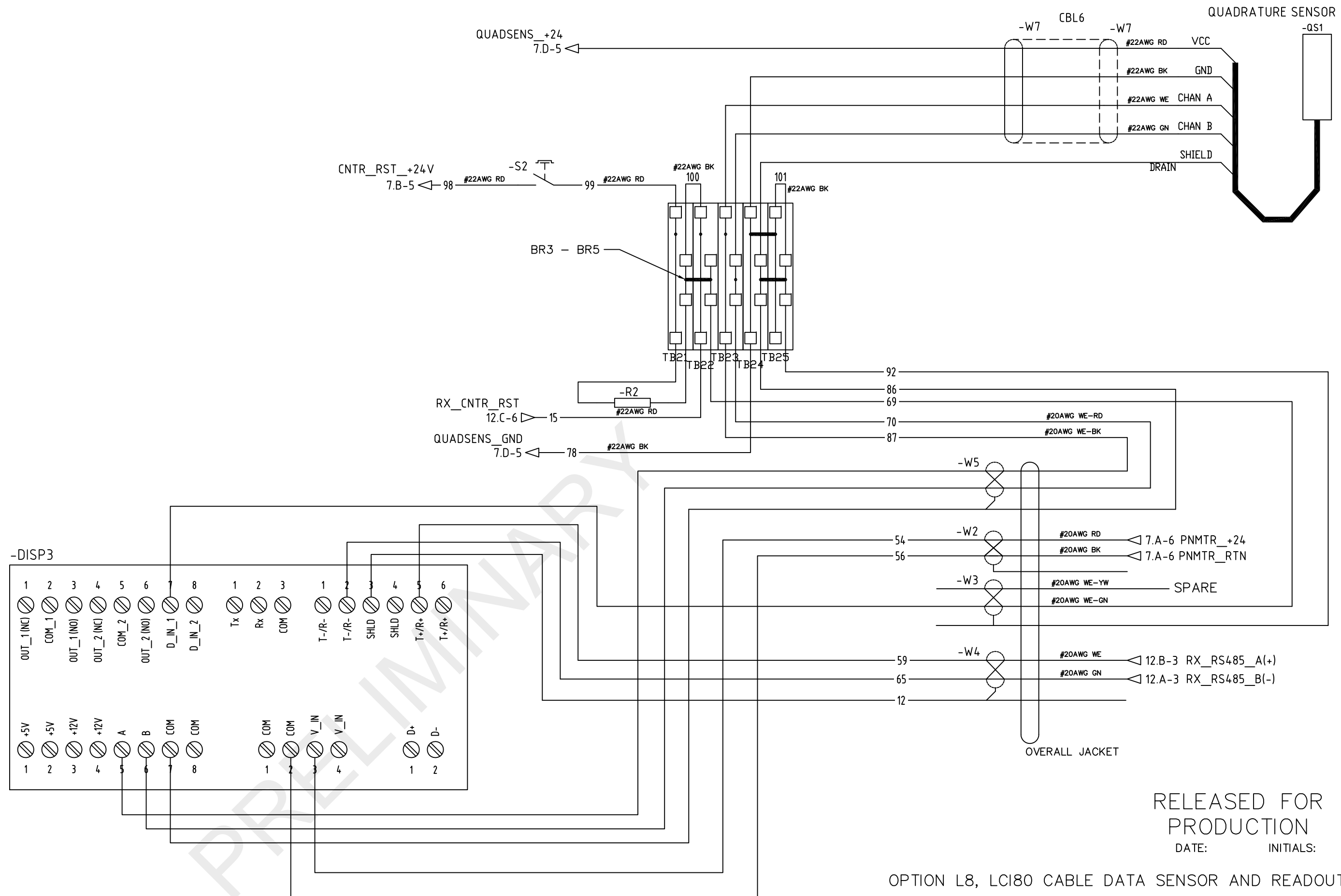
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RELEASED FOR PRODUCTION  
DATE: INITIALS:

OPTION L9, LCI90 CABLE DATA SENSOR, TENSION AND READOUT



RELEASED FOR  
PRODUCTION  
DATE:                      INITIALS:

### OPTION L8, LCI80 CABLE DATA SENSOR AND READOUT

D

D

C

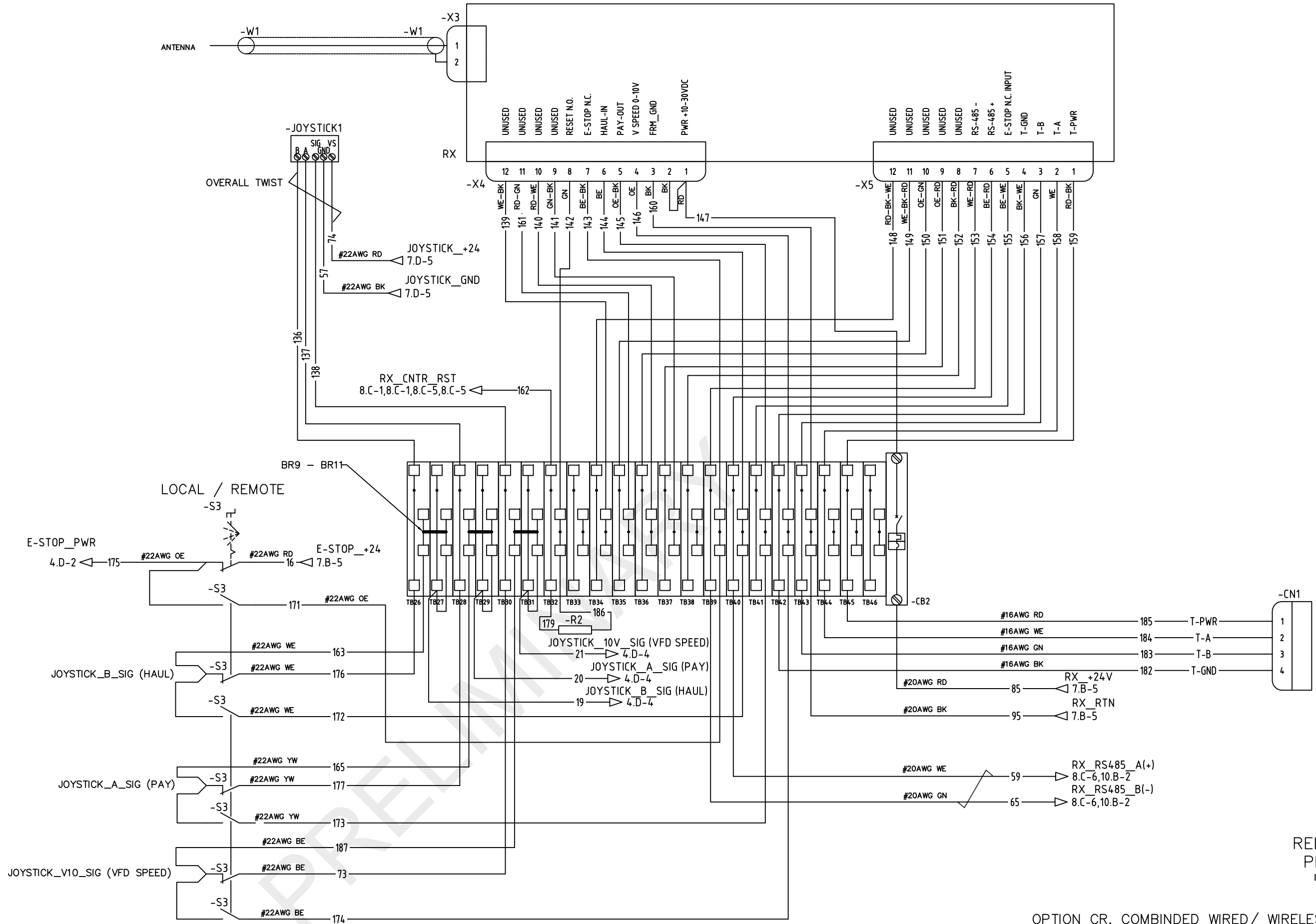
C

B

B

A

A



RELEASED FOR PRODUCTION  
DATE: INITIALS:

OPTION CR, COMBINED WIRED/ WIRELESS REMOTE CONTROL

|                                                                                        |             |               |                                                        |                        |
|----------------------------------------------------------------------------------------|-------------|---------------|--------------------------------------------------------|------------------------|
| OKEANUS SCIENCE & TECHNOLOGY<br>P.O. BOX 2978, REDMOND, WA 98073 USA<br>(425) 889-1834 |             | SIZE<br>D     | CAGE CODE<br>OK2D8                                     | DWG NO.<br>471-300-002 |
| DRAWN<br>TSJ                                                                           | 2/10/17     | SCALE<br>NTS  | SHEET 12 OF 12                                         |                        |
| EPA NO.                                                                                | CHECK LEVEL | CONTROL CLASS | AUTOCAD GENERATED DRAWING<br>FILE NAME: 417-300-002_12 |                        |