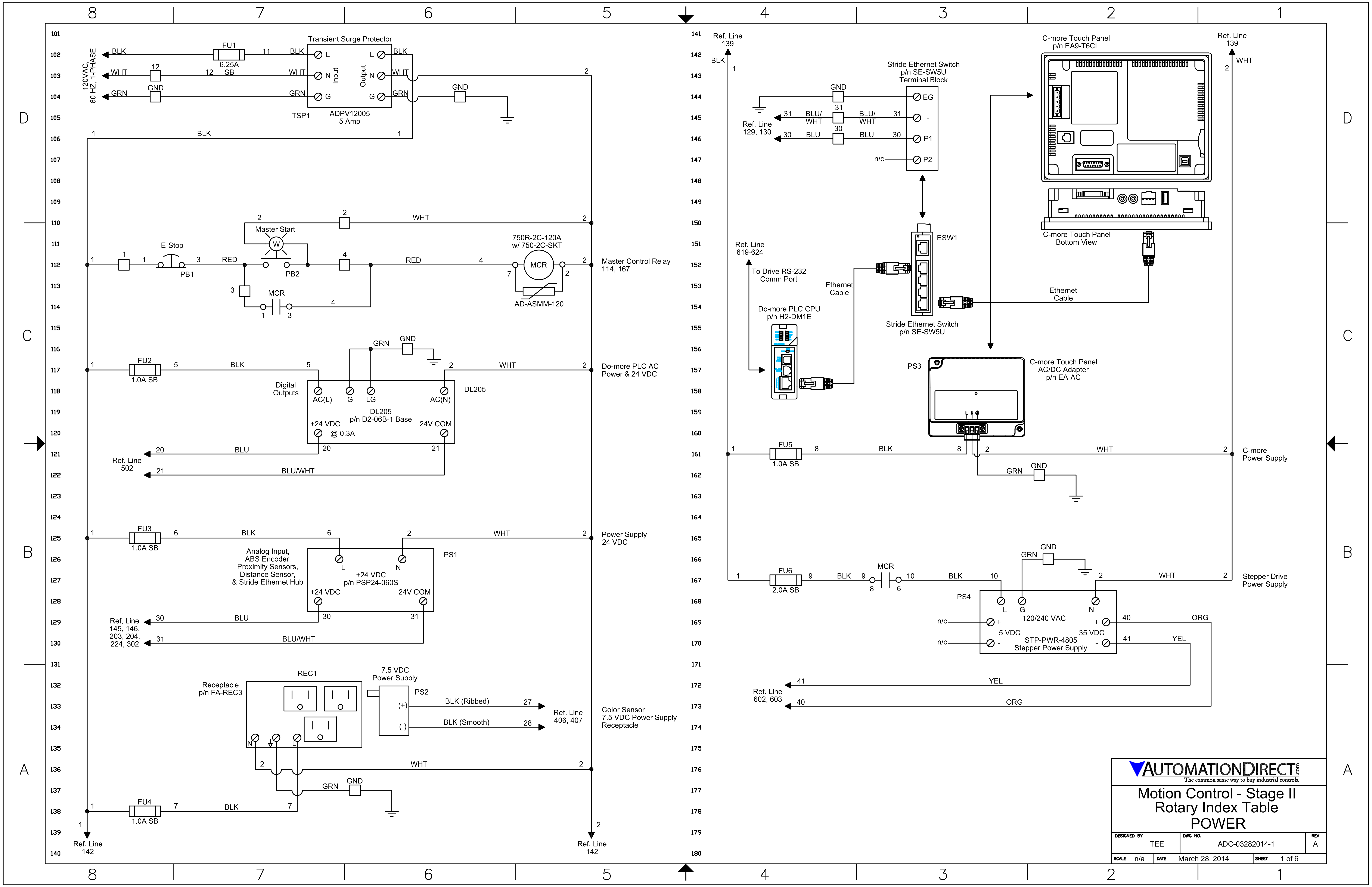

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Motion Control - Stage II
Rotary Index Table
POWER

DESIGNED BY	DWG NO.	REV
TEE	ADC-03282014-1	A

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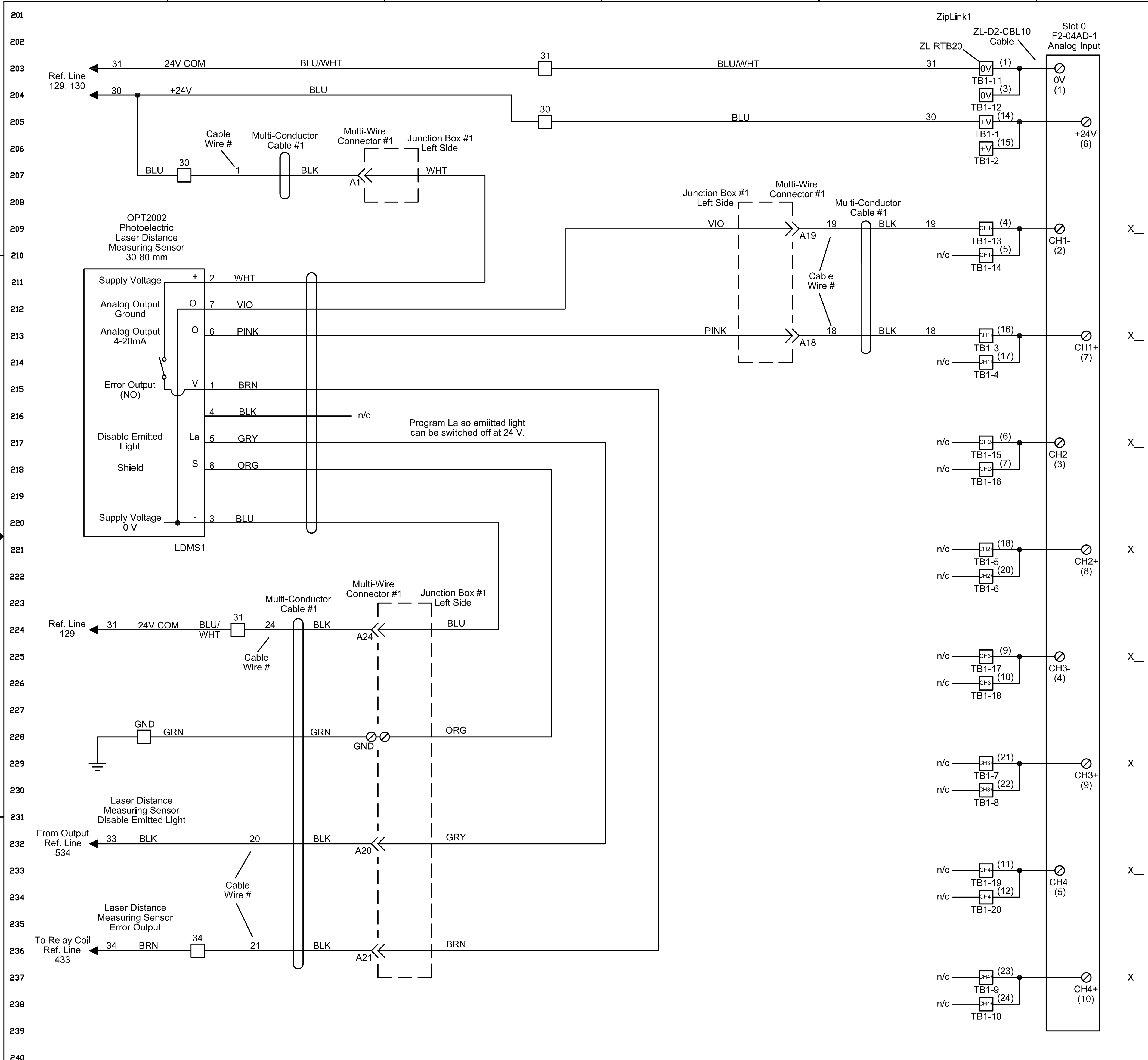
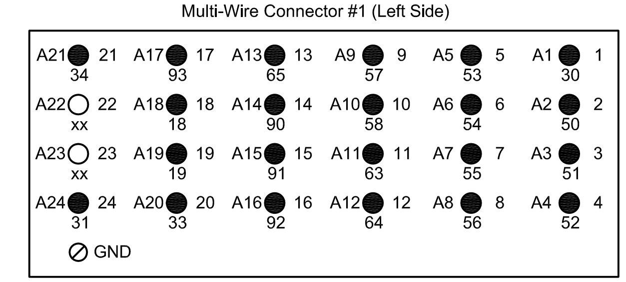


Connector 1 (left side) - Pin Assignments						
Device	**Function**	**Designation**	**Signal**	**Wire Color**	**Pin Number**	**Wire Number**
absolute encoder 10.8-26.4 VDC	table position	ENC1	+24 VDC	brown	1	30
proximity	detect brass balls	PROX2	+24 VDC	brown		
proximity	brass ball reject cylinder extended	PROX5	+24 VDC	brown		
proximity	brass ball reject cylinder retracted	PROX6	+24 VDC	brown		
laser distance measuring sensor	DC power	LDMS1	+24 VDC	white		
absolute encoder	table position	ENC1	bit 0, X8	red	2	50
absolute encoder	table position	ENC1	bit 1, X9	orange	3	51
absolute encoder	table position	ENC1	bit 2, X10	yellow	4	52
absolute encoder	table position	ENC1	bit 3, X11	green	5	53
absolute encoder	table position	ENC1	bit 4, X12	grey	6	54
absolute encoder	table position	ENC1	bit 5, X13	purple	7	55
absolute encoder	table position	ENC1	bit 6, X14	white	8	56
absolute encoder	table position	ENC1	bit 7, X15	black/white	9	57
absolute encoder	table position	ENC1	bit 8, X16	red/white	10	58
proximity	detect brass balls	PROX2	to input X27	black	11	65
proximity	brass ball reject cylinder extended	PROX5	to input X28	black	12	63
proximity	brass ball reject cylinder retracted	PROX6	to input X29	black	13	64
stepper motor	phase A	MTR1	pulse	red	14	90
stepper motor	phase A not	MTR2	pulse	white	15	91
stepper motor	phase B	MTR3	pulse	green	16	92
stepper motor	phase B not	MTR4	pulse	black	17	93
laser distance measuring sensor	analog output 4-20mA	LDMS1	O analog output	pink	18	18
laser distance measuring sensor	analog output ground	LDMS1	O- analog common	violet	19	19
laser distance measuring sensor	disable emitted light	LDMS1	from output Y3	grey	20	33
laser distance measuring sensor	error output	LDMS1	to CR2	brown	21	34
(spare)					22	
(spare)					23	
absolute encoder	table position	ENC1	24V COM	blue	24	31
proximity	detect brass balls	PROX2	24V COM	blue		
proximity	brass ball reject cylinder extended	PROX5	24V COM	blue		
proximity	brass ball reject cylinder retracted	PROX6	24V COM	blue		
laser distance measuring sensor	DC common	LDMS1	24V COM	blue		
laser distance measuring sensor	ground	LDMS1	ground	orange	GND	

Multi-Wire Connector #1 (Left Side)



Low Voltage Signals & Communications

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Motion Control - Stage II
Rotary Index Table
ANALOG INPUTS

DESIGNED BY	DWG NO.	REV
TEE	ADC-03282014-2	A

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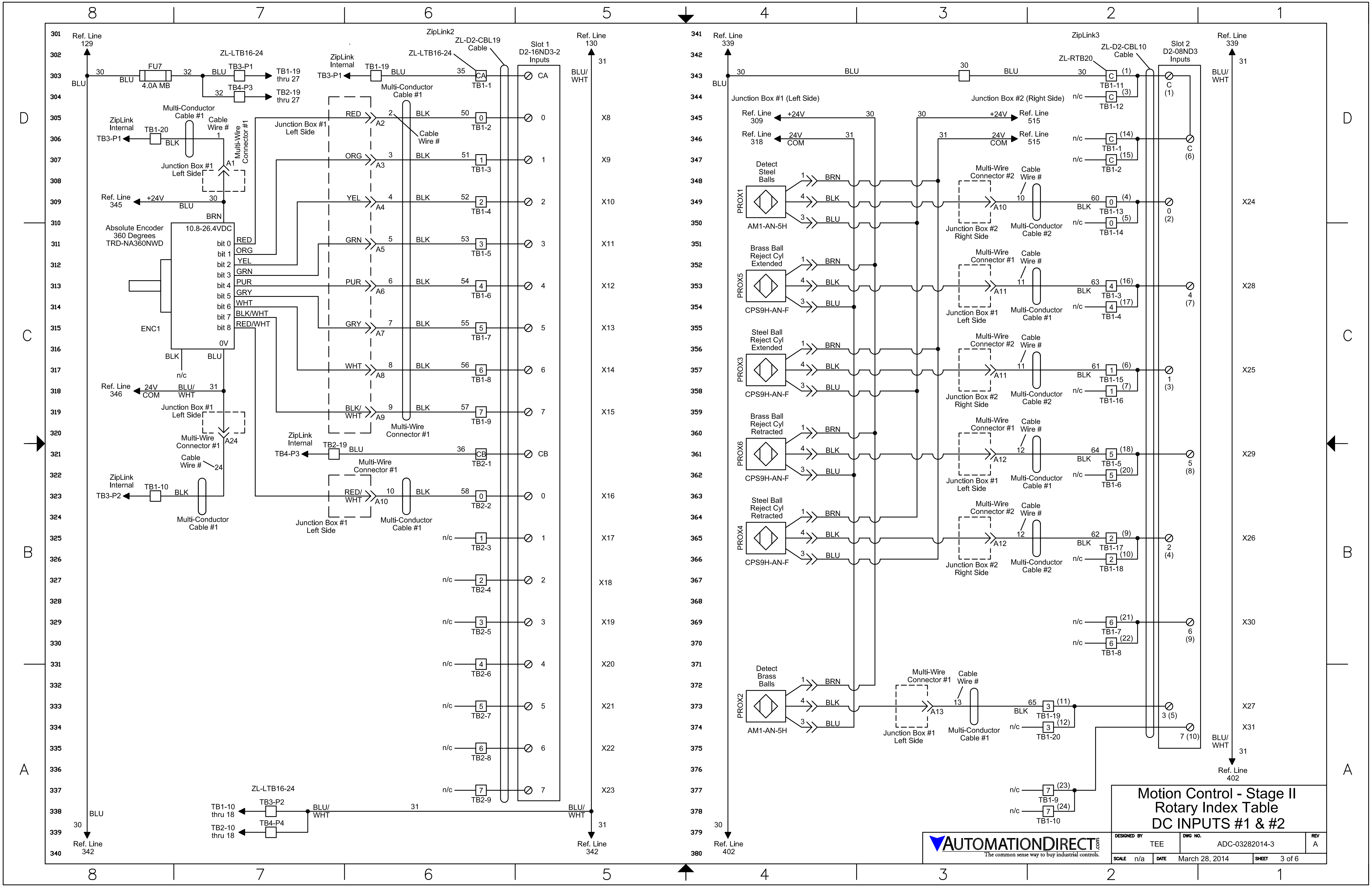

Motion Control - Stage II
Rotary Index Table
DC INPUTS #1 & #2

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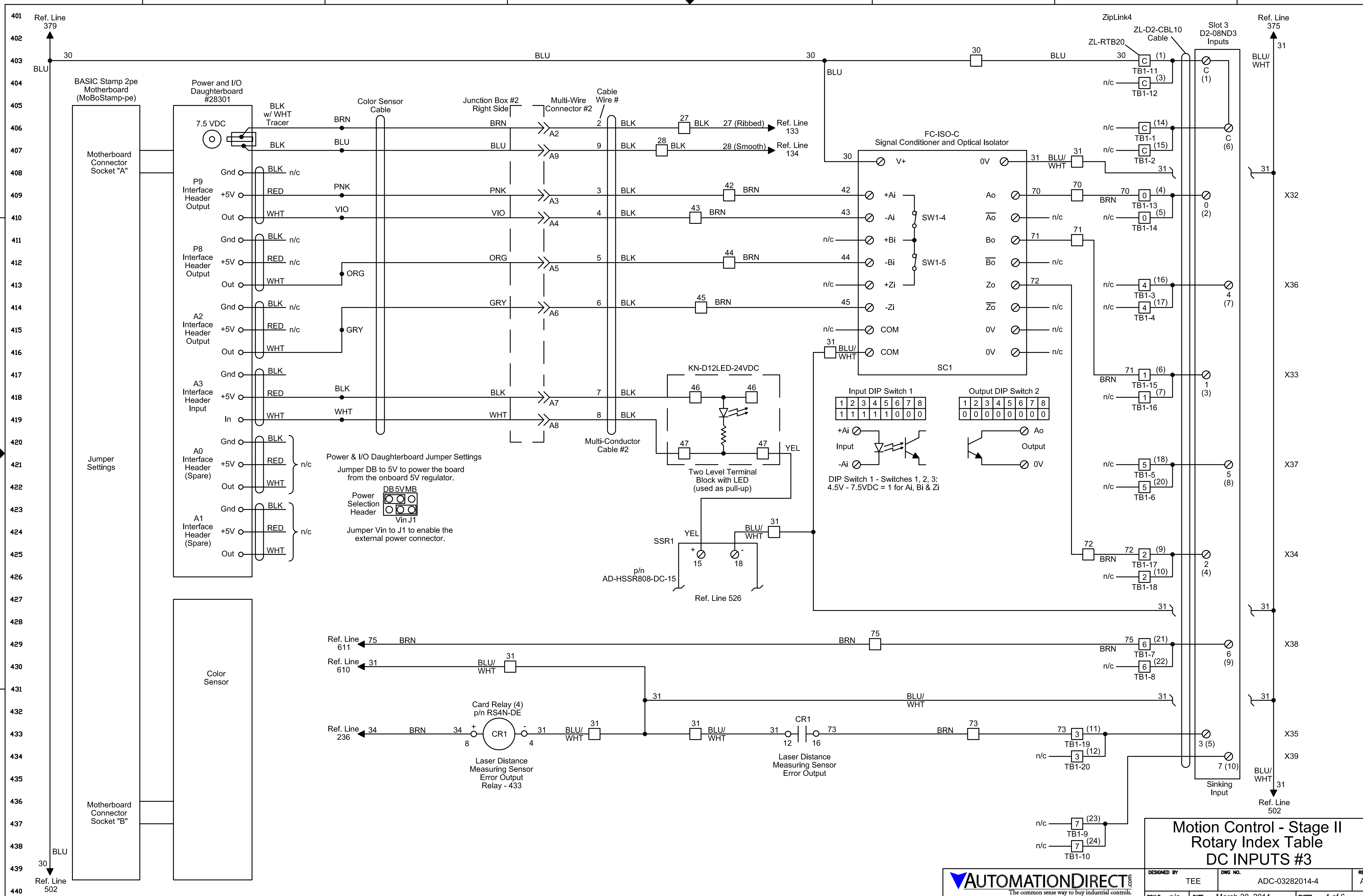
DESIGNED BY	DWG NO.	REV
TEE	ADC-03282014-3	A

SCALE	DATE	SHEET
n/a	March 28, 2014	3 of 6



Motion Control - Stage II Rotary Index Table DC INPUTS #3		
DESIGNED BY: TEE	DWG NO.: ADC-03282014-4	REV: A
SCALE: n/a	DATE: March 28, 2014	SHEET: 4 of 6

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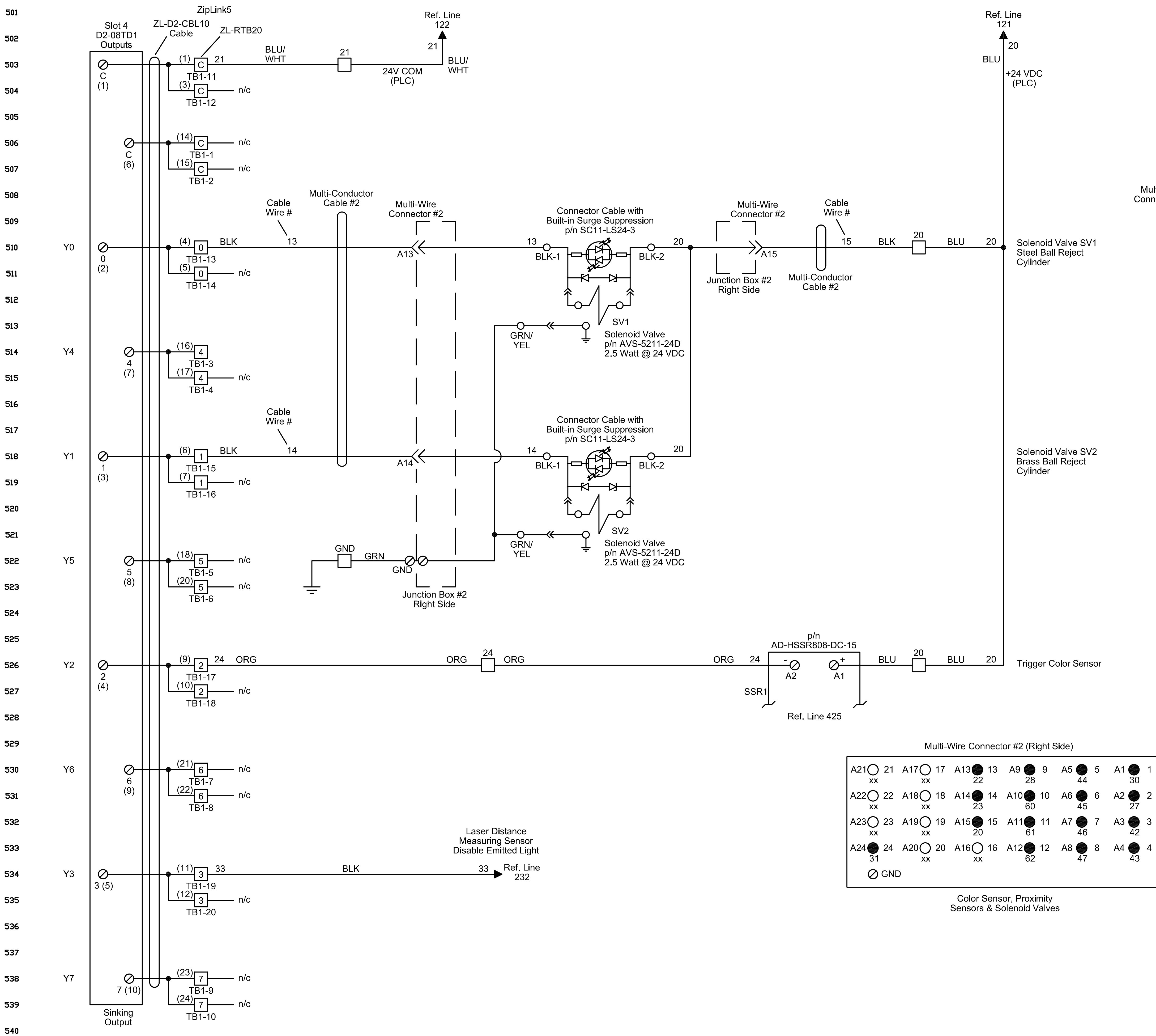

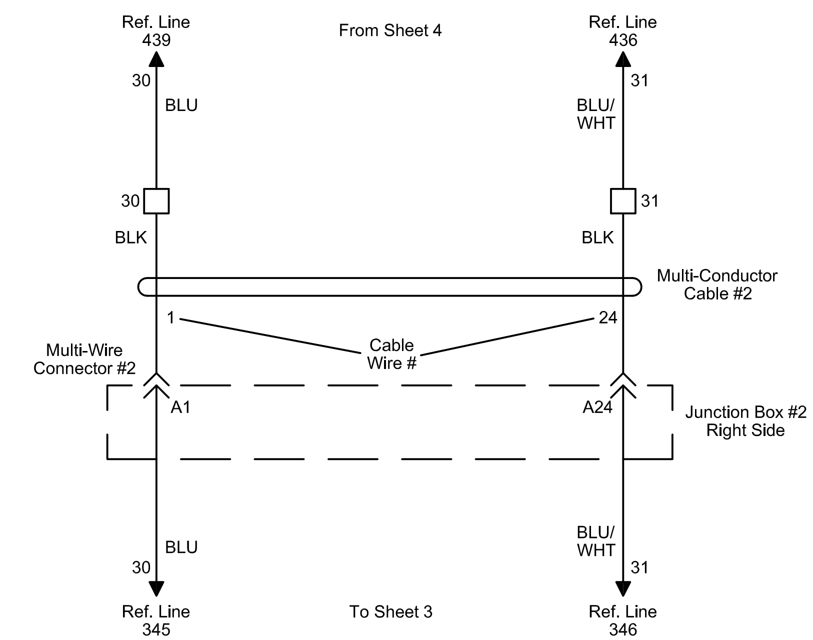

Connector 2 (right side) - Pin Assignments

Device	Function	Designation	Signal	Wire Color	Pin Number	Wire Number
proximity	detect steel balls	PROX1	+24 VDC	brown	1	30
proximity	steel ball reject cylinder extended	PROX3	+24 VDC	brown		
proximity	steel ball reject cylinder retracted	PROX4	+24 VDC	brown		
color sensor	detect marble color	SC1	+7.5 VDC black w/ white trace	brown	2	27
color sensor	detect marble color	SC1	+5 VDC P9 red	pink	3	42
color sensor	detect marble color	SC1	bit 0 P9 white	violet	4	43
color sensor	detect marble color	SC1	bit 1 P8 white	orange	5	44
color sensor	detect marble color	SC1	bit 2 A2 white	grey	6	45
color sensor	detect marble color	SC1	+5 VDC trigger A3 red	black	7	46
color sensor	detect marble color	SC1	input trigger A3 white	white	8	47
color sensor	detect marble color	SC1	7.5V COM (black)	blue	9	28
proximity	detect steel balls	PROX1	to input X24	black	10	60
proximity	steel ball reject cylinder extended	PROX3	to input X25	black	11	61
proximity	steel ball reject cylinder retracted	PROX4	to input X26	black	12	62
solenoid	steel ball reject cylinder	SV1	from output Y0	black-1	13	13
solenoid	brass ball reject signal	SV2	from output Y1	black-1	14	14
solenoids	steel & brass ball reject cylinders	SV1 & SV2	+24 VDC DL205 p/s	black-2	15	20
(spare)					16	
(spare)					17	
(spare)					18	
(spare)					19	
(spare)					20	
(spare)					21	
(spare)					22	
(spare)					23	
proximity	detect steel balls	PROX1	24V COM	blue	24	31
proximity	steel ball reject cylinder extended	PROX3	24V COM	blue		
proximity	steel ball reject cylinder retracted	PROX4	24V COM	blue		
steel & brass ball reject cylinders	ground	SV1 & SV2	ground	green/ yellow	GND	

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Motion Control - Stage II
Rotary Index Table
DC OUTPUTS

DESIGNED BY	DWG NO.	REV
TEE	ADC-03282014-5	A

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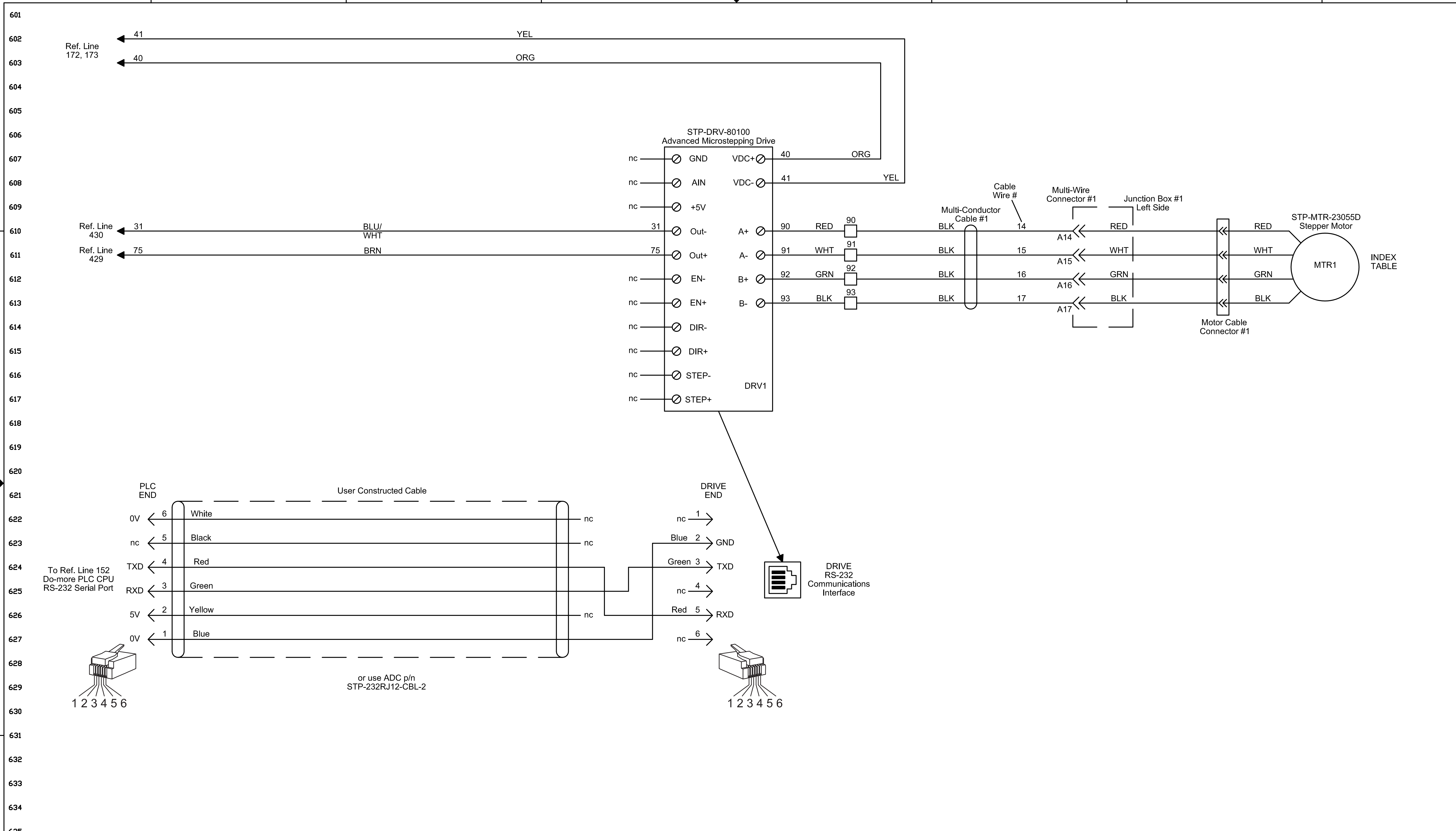

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Motion Control - Stage II
Rotary Index Table
STEPPER DRIVE & MOTOR

DESIGNED BY	DWG NO.	REV
TEE	ADC-03282014-6	A
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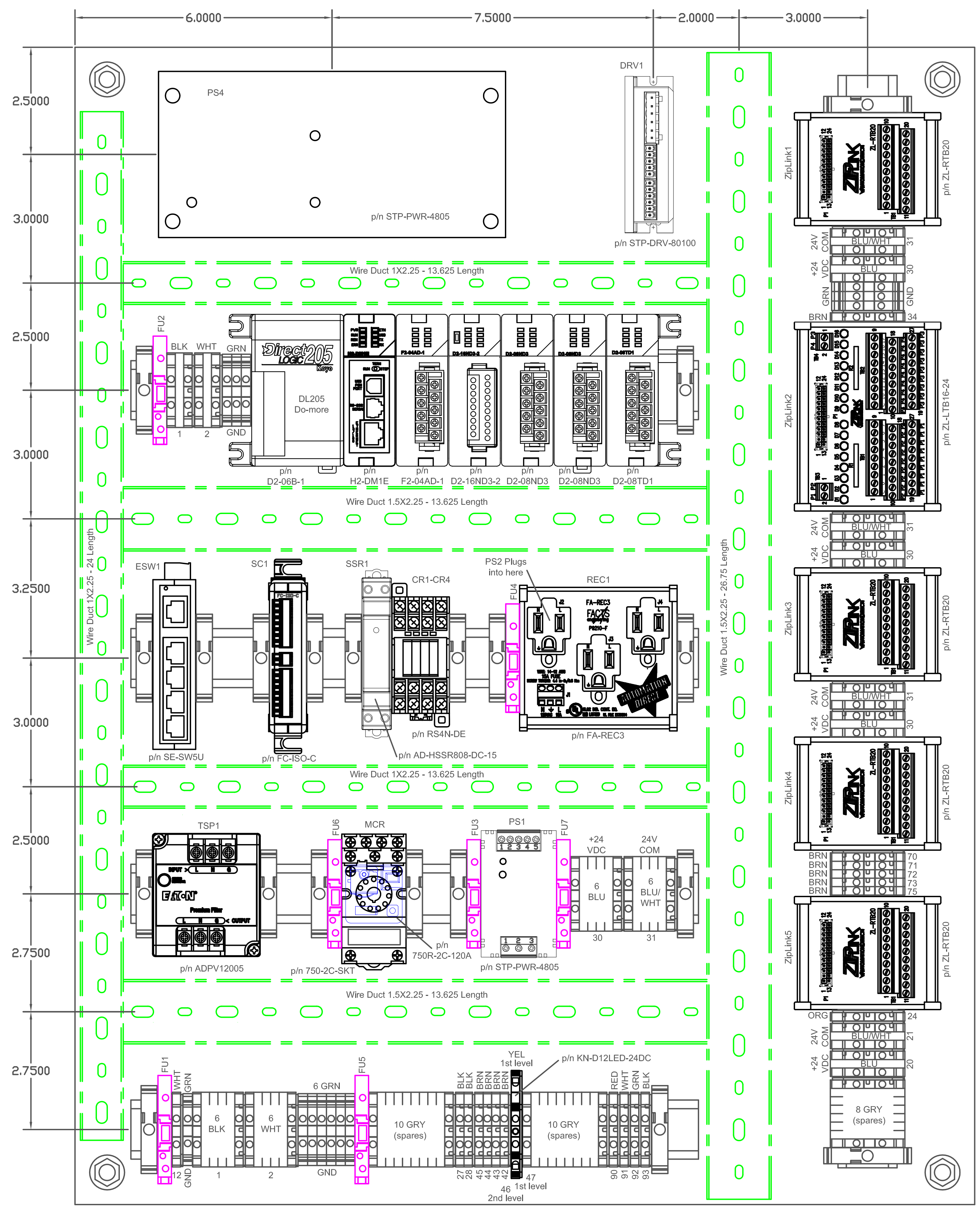

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Motion Control - Stage II
Rotary Index Table
PANEL LAYOUT

DESIGNED BY	DWG NO.	REV
TEE	ADC-03292014-1	A
SCALE n/a	DATE March 28, 2014	SHEET 1 of 1