Rev 1/30/2020 Main Control Panel Diode Matrix Arduino Mega Labels Bypass Board Yellow Bypass Jumper DBD22's D Yard only		Stagi	ng Panel wire list							1			1									-	1				1	1		
11) b <					м	lain Co	ontrol	Panel		Diode	e Matrix		Arduino Me	ga	Labels			E	Bypass	Board				Yellow Byr	bass Jumper	D	BD22's D) Yard o	nly	
1 1 <th>Panel</th> <th></th> <th></th> <th></th> <th>LED</th> <th>T-1 3</th> <th>/4</th> <th>3</th> <th>30</th> <th>Input</th> <th>Output</th> <th>Input</th> <th></th> <th>Output</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>To De</th> <th>tect</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Warning</th>	Panel				LED	T-1 3	/4	3	30	Input	Output	Input		Output								To De	tect							Warning
	Item #	Wire		R/G	В	G	R	Y R	es Pl	B Resource		Pin	Pullup		Name	1st Red	Pin	2nd Rec	l Pin	1st Red	Pin	2nd Red P	Pin	1st Yellow	2nd Yellow	Black			R	
	1	1-1	Route 1 PB						1	l 1					D Yard Helix Return Loop															
	2	1-2	Route 2 PB						1	1 2					Helix Enter D Yard															
	4	1-4	Route 4 PB												D Yard to D Yard															
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53 12 9 Yard Occupancy Track 2.1.2 Relution LED 1<						1				1														3-11	2.1-4	2.1-1	2.1-2		2.1-4	<u> </u>
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60 3-9 9 Vard Occupancy Track 4.1 Yellow LED 0							1		1									3-18	9			3.2-3	9					3.2-3		
61 3-20 9 Yard Occupancy Track 4.12 Red LED 0 0 1 0 1 0<								1	1															3-19	4.1-4	4.1-1	4-1-2		4.1-4	
62 3-21 9 Yard Occupancy Track 4.2.1 Yellow LED 1							1									3-20	4			4.1-3	12							4.1-3		
63 3-2 D Yard Occupancy Track 5.1.2 Yellow LED 6 1 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3-21</td><td>4.2-4</td><td>4.2-1</td><td>4.2-2</td><td></td><td>4.2-4</td><td></td></th<>						1																		3-21	4.2-4	4.2-1	4.2-2		4.2-4	
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67 4.1 Lower Heix Up 1	65	3-24	D Yard Occupancy Track 5.1.2 Red LED				1		1							3-24												5-1-3		
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68/4-2 Lower Helix Open						1	1		1	1						I												\square		L
	68	4-2	Lower Helix Open			1			1	1					private cable	I												1		

	Lower Helix Down				1	1					private cable														
70 4-4	Lower Helix Occupancy LED common wire										From Control box														
71 5-1	Route 21 PB - C Yard Track 4 - Entry						1 21				TK 4														
72 5-2	Route 22 PB - C Yard Track 5 - Entry						1 22				TK 5														
73 5-3	Route 23 PB - C Yard Track 6 - Entry						1 23				TK 6														
74 5-4	Route 24 PB - C Yard Track 7 - Entry						1 24				TK 7														
	Route 25 PB - C Yard Track 8 - Entry						1 25				TK 8														
	Route 26 PB - C Yard Track 9 - Entry						1 26				TK 9														
	Route 27 PB - C Yard Track 10 - Entry						1 27				TK 10														
	Route 28 PB - C Yard Track 11 - Entry		-	-		-	1 28	1			TK 11														
	Route 29 PB - C Yard Track 12 - Entry	 	-	-	_		1 29		-		TK 12														
	Route 31 PB - C Yard Track 4 - Exit	 	-	-			1 31		-		TK 4														
	Route 32 PB - C Yard Track 5 - Exit	 		-	_	-	1 31	+	-		TK 5											-			
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	Route 33 PB - C Yard Track 6 - Exit	 							-		TK 6					-						-			
	Route 34 PB - C Yard Track 7 - Exit	 					1 34	-	-		TK 7			_		_						_			
	Route 35 PB - C Yard Track 8 - Exit	 					1 35				TK 8					_									
	Route 36 PB - C Yard Track 9 - Exit	 					1 36				TK 9											_			
86 5-16	Route 37 PB - C Yard Track 10 - Exit	 					1 37				TK 10														
	Route 38 PB - C Yard Track 11 - Exit						1 38				TK 11														
	Route 39 PB - C Yard Track 12 - Exit						1 39				TK 12														
	Route 40 PB - C Yard Return Loop Main Line Entry - Track 1						1 40				Track 1														
	Route 41 PB - C Yard Return Track Entry Track 2						1 41	1	1		Track 2											1			
	Route 42 PB - C Yard Return Track Entry Track 3						1 42				Track 3											1			
92 5-22	Route 43 PB - C Yard Return Loop Main Line Exit - Track 1						1 43				Track 1														
	Route 44 PB - C Yard Return Track Entry Track 2						1 44				Track 2														
	Route 45 PB - C Yard Return Track Entry Track 3						1 45				Track 3														
	Route 21 LED - C Yard Track 4 - Entry	1				1		21			TK 4														
	Route 22 LED - C Yard Track 5 - Entry	1	1			1		22	1		TK 5	1 1	1				1					1			1
	Route 23 LED - C Yard Track 6 - Entry	1				1	1	23	1		TK 6	1	1			1	1					1			1
	Route 24 LED - C Yard Track 7 - Entry	1	-			1		24	1		TK 7	1 +	1			1	1				1	1	1 1		1
	Route 25 LED - C Yard Track 8 - Entry	1	-	-		1		25			TK 8														
	Route 26 LED - C Yard Track 9 - Entry	 1	-	-		1	_	25	-		TK 9			-		-						-			
100 5-30	Route 27 LED - C Yard Track 10 - Entry	1		-		1	-	20	-		TK 10											-			
		1				1		27	-		TK 10 TK 11					-						-			
	Route 28 LED - C Yard Track 11 - Entry								-							-						-			
	Route 29 LED - C Yard Track 12 - Entry	1				1	_	29	-		TK 12			_								-			
	Route 31 LED - C Yard Track 4 - Exit	 1				1		31	-		TK 4					_				-		_			
	Route 32 LED - C Yard Track 5 - Exit	 1				1		32			TK 5														
	Route 33 LED - C Yard Track 6 - Exit	 1				1		33			TK 6														
						1		34			TK 7														
	Route 34 LED - C Yard Track 7 - Exit	1																							
108 5-38	Route 35 LED - C Yard Track 8 - Exit	1				1		35			TK 8														
108 5-38								35 36			TK 8 TK 9														
108 5-38 1 109 5-39 1	Route 35 LED - C Yard Track 8 - Exit	1				1																			
108 5-38 1 109 5-39 1 110 5-40 1	Route 35 LED - C Yard Track 8 - Exit Route 36 LED - C Yard Track 9 - Exit	1				1		36			TK 9														
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$\begin{array}{c} 108 & 5-38 \\ 109 & 5-39 \\ 110 & 5-40 \\ 1111 & 5-41 \\ 112 & 5-42 \\ 113 & 5-43 \\ 114 & 5-44 \\ 115 & 5-45 \\ 116 & 5-46 \\ 117 & 5-47 \\ 118 & 5-48 \\ 119 & 5-49 \\ 119 & 5-49 \\ 120 & 5-50 \\ \end{array}$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 37 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 30 LED - C Yard Track 12 - Exit Route 40 LED - C Yard Return Loop Main Line Entry - Track 1 Route 41 LED - C Yard Return Track Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 42 LED - C Yard Return Loop Main Line Exit - Track 1 Route 42 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 2 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Green Black Reset button C Yard Panel - Red	1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1		36 37 38 39 40 41 42 43 44 45			TK 9 TK 10 TK 11 TK 12	1st occupancy i 2nd occupancy Entry To Cont	is Yellow a r is Yellow Exit rol Panel	and Re and Re Bypass	d LED's c ed LED's Board Entry	before	entry ladde the Exit la Exit etector	idder.	Entry Panel	Exit Detector	Black	DBD	D22's C Y Red		Cable
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$\begin{array}{c} 108 5 - 38 \\ 109 5 - 39 \\ 110 5 - 40 \\ 111 5 - 41 \\ 112 5 - 42 \\ 113 5 - 43 \\ 114 5 - 44 \\ 115 5 - 45 \\ 116 5 - 46 \\ 117 5 - 47 \\ 118 5 - 48 \\ 119 5 - 49 \\ 120 5 - 50 \\ 121 \\ 122 6 - 1 \\ 123 6 - 2 \end{array}$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 37 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 39 LED - C Yard Track 11 - Exit Route 31 LED - C Yard Track 12 - Exit Route 31 LED - C Yard Return Track Entry Track 1 Route 41 LED - C Yard Return Track Entry Track 3 Route 42 LED - C Yard Return Track Entry Track 3 Route 43 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Green Black Reset Dutton C Yard Panel - Red C Yard PB and Route LED common ground C Yard PB and Route LED common ground C Yard Coupancy Track 4.1. Yellow LED [Y1] - Entry	1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 18 G Black Active Low	1st occupancy i 2nd occupancy Entry To Cont 1st Red Pin	is Yellow a r is Yellow Exit rol Panel	and Re and Re Bypass	d LED's c ed LED's Board Entry 1st Rec	before	entry ladde the Exit la Exit etector	idder.	Entry Panel 1st Yellow	Exit Detector	Black R	DBD Blue Y	D22's C Y Red R	ard Only	Cable Number
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$\begin{array}{c} 108 & 5-38 \\ 109 & 5-39 \\ 110 & 5-40 \\ 111 & 5-41 \\ 112 & 5-42 \\ 113 & 5-43 \\ 114 & 5-44 \\ 115 & 5-45 \\ 116 & 5-46 \\ 117 & 5-47 \\ 118 & 5-48 \\ 119 & 5-49 \\ 120 & 5-50 \\ 121 & 122 \\ 5-10 \\ 122 & 6-1 \\ 123 & 6-2 \\ 124 & 6-3 \\ 125 & 6-4 \\ 126 & 6-5 \\ \end{array}$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 37 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 39 LED - C Yard Track 11 - Exit Route 31 LED - C Yard Track 12 - Exit Route 40 LED - C Yard Return Loop Main Line Entry - Track 1 Route 41 LED - C Yard Return Track Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Ree C Yard D Pand Route LED common ground C Yard Occupancy Track 4.12 Red LED [Y1] - Entry C Yard Occupancy Track 4.2.12 Red LED [Y1] - Exit C Yard Occupancy Track 4.2.2 Red LED [Y1] - Exit C Yard Occupancy Track 4.2.2 Red LED [Y1] - Exit C Yard Occupancy Track 4.2.1 Yellow LED [Y2] - Entry	1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 18 G Black Active Low Active Low Active Low Active Low	1st occupancy i 2nd occupancy Entry To Cont 1st Red Pin 6-2 3	is Yellow a is Yellow Exit crol Panel 2nd Rec	and Re and Re Bypass	d LED's c ed LED's Board Entry 1st Rec 1.1	before	entry ladde the Exit la Exit etector 2nd Red	idder.	Entry Panel 1st Yellow	Exit Detector 2nd Yellow	Black R 1.3	DBI Blue Y 1.4	D22's C Y Red R R	ard Only	Cable Number 1 1 5 5
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$\begin{array}{c} 108 \ 5-38 \\ 109 \ 5-39 \\ 110 \ 5-40 \\ 111 \ 5-41 \\ 112 \ 5-42 \\ 113 \ 5-43 \\ 114 \ 5-44 \\ 115 \ 5-45 \\ 116 \ 5-45 \\ 116 \ 5-45 \\ 116 \ 5-45 \\ 117 \ 5-47 \\ 118 \ 5-48 \\ 119 \ 5-49 \\ 120 \ 5-50 \\ 121 \\ 122 \ 6-1 \\ 122 \ 6-1 \\ 122 \ 6-3 \\ 125 \ 6-4 \\ 126 \ 6-5 \\ 127 \ 6-6 \\ 128 \ 6-7 \\ 128 \ 6-7 \\ \end{array}$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 37 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 38 LED - C Yard Track 11 - Exit Route 38 LED - C Yard Track 12 - Exit Route 31 LED - C Yard Return Loop Main Line Entry - Track 1 Route 31 LED - C Yard Return Track Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 42 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 44 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Route 45 LED - C Yard Return Track Entry Track 3 Vard Docupancy Track 4.1.2 Red LED [Y1] - Entry C Yard Oscupancy Track 4.1.2 Red LED [Y1] - Entry C Yard Occupancy Track 4.1.2 Red LED [Y1] - Entry C Yard Occupancy Track 5.1.1 Yellow LED [Y2] - Exit C Yard Occupancy Track 5.1.2 Red LED [Y2] - Entry C Yard Occupancy Track 5.1.2 Rel LED [Y2] - Entry	1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 18 G Black Active Low Active Low Active Low Active Low Active Low Active Low Active Low	1st occupancy i 2nd occupancy Entry To Cont 1st Red Pin 6-2 3	is Yellow a r is Yellow Exit rol Panel 2nd Rec 6-4	and Re and Re Bypass	d LED's c ed LED's Board Entry 1st Rec 1.1	before	Exit exit la Exit la Exit la Exit la Exit exector 2nd Red	idder.	Entry Panel 1st Yellow 6-1	Exit Detector 2nd Yellow	Black R 1.3	DBI Blue Y 1.4	D22's C Y Red R R	ard Only Yellow Y	Cable Number 1 1 5 5
$\begin{array}{c} 108 5-38 \\ 109 5-39 \\ 110 5-40 \\ 111 5-41 \\ 112 5-42 \\ 113 5-43 \\ 114 5-44 \\ 115 5-45 \\ 115 5-45 \\ 116 5-46 \\ 117 5-47 \\ 118 5-48 \\ 119 5-49 \\ 120 5-50 \\ 121 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 123 6-2 \\ 124 6-3 \\ 125 6-4 \\ 126 6-5 \\ 127 6-6 \\ 128 6-7 \\ 129 6-8 \\ 0.5$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 12 - Exit Route 30 LED - C Yard Return Loop Main Line Entry - Track 1 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Reed C Yard D Coupancy Track 4.1.1 Yellow LED [Y1] - Entry C Yard Occupancy Track 4.2.2 Red LED [Y1] - Entry C Yard Occupancy Track 4.2.1 Yellow LED [Y2] - Entry C Yard Occupancy Track 5.1.2 Red LED [Y2] - Entry C Yard Occupancy Track 5.1.2 Red LED [Y2] - Entry C Yard Occupancy Track 5.2.1 Yellow LED [Y2] - Entry C Yard Occupancy Track 5.2.1 Red LED [Y2] - Entry C Yard Occupancy Track 5.2.1 Red LED [Y2] - Entry	1 1 1 1 1 1 1 1 1 1 1 1 1		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 18 G Black Active Low Active Low Active Low Active Low Active Low Active Low Active Low Active Low Active Low	1st occupancy i 2nd occupancy Entry To Cont 1st Red Pin 6-2 3	is Yellow a is Yellow Exit crol Panel 2nd Rec	and Re and Re Bypass	d LED's c ed LED's Board Entry 1st Rec 1.1	before	entry ladde the Exit la Exit etector 2nd Red	Pin 2	Entry Panel 1st Yellow 6-1 6-5	Exit Detector 2nd Yellow 6-3	Black R 1.3	DBL Blue Y 1.4 5.2 1.4 5.2 1.4	22's C Y Red R 1.1 5.3	Yellow Y Y 1.2	Cable Number 1 5 6 1 5 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5
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$\begin{array}{c} 108 5-38 \\ 109 5-39 \\ 110 5-40 \\ 111 5-41 \\ 112 5-42 \\ 113 5-43 \\ 114 5-44 \\ 115 5-45 \\ 115 5-45 \\ 116 5-46 \\ 117 5-47 \\ 118 5-48 \\ 119 5-49 \\ 120 5-50 \\ 121 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 122 6-1 \\ 123 6-2 \\ 124 6-3 \\ 125 6-4 \\ 126 6-5 \\ 127 6-6 \\ 128 6-7 \\ 138 6-17 \\ 139 6-18 \\ 136 6-17 \\ 139 6-18 \\ 136 6-19 \\ 139 6-18 \\ 136 6-19 \\ 139 6-18 \\ 139 6-18 \\ 139 6-18 \\ 139 6-18 \\ 139 6-19 \\ 139 6-18 \\ 140 6-19 \\ 140 6-19 \\ 141 6-20 \\ 140 6-20 \\ 120 5-40 \\ 120 5-40 \\ 120 5-50 \\ 120 5-$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 40 LED - C Yard Track 12 - Exit Route 41 LED - C Yard Return Loop Main Line Entry - Track 1 Route 41 LED - C Yard Return Track Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Green Black CYard D Coupancy Track 4.1.1 Yellow LED [Y1] - Entry CYard O Coupancy Track 4.1.2 Red LED [Y1] - Entry CYard O Coupancy Track 4.2.1 Yellow LED [Y2] - Entry CYard O Coupancy Track 5.1.1 Yellow LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.2.2 Red LED [Y3] - Entry CYard Occupancy Track 5.2.2 Red LED [Y3] - Entry	1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 TK 12 TK 12 18 G Black 18 G Black Active Low	1st occupancy i 2nd occupancy i 2nd occupancy i Entry To Cont 1st Red Pin 6-2 3 6-6 6 6 6 6 9 6-10 9 6-14 12 6-14 12	is Yellow a is Yellow a Exit Exit Col Panel 2nd Rec 6-4 6-4 6-8 6-8 6-12 6-12	and Recard Recar	d LED's cd d LED's dd d LED's dd Board Entry 1st Rec 1.1 1.3 2.1 2.3	before	entry ladd the Exit la Exit Exit 2nd Red 5.1 5.3 6.1 6.1	Pin 2	Entry Panel 1st Yellow 6-1 6-5 6-5 6-9	Exit Detector 6-3 6-7 6-7 6-11	Black R 1.3 5.1 2.3 6.1 3.3	DBL Blue Y 1.4 Solution Solution <	22's C Y Red R R 1.1 5.3 5.3 2 2.1 2 2.1	ard Only Yellow Y 1.2 5.4 5.4	Cable Number 1 5 1 5 1 5 1 5 2 6 6 6 6 6 3 3 7
$\begin{array}{c} 108 \ 5-38 \\ 109 \ 5-39 \\ 110 \ 5-40 \\ 111 \ 5-41 \\ 111 \ 5-41 \\ 112 \ 5-42 \\ 113 \ 5-43 \\ 114 \ 5-44 \\ 115 \ 5-45 \\ 116 \ 5-46 \\ 117 \ 5-45 \\ 116 \ 5-46 \\ 117 \ 5-47 \\ 118 \ 5-48 \\ 119 \ 5-49 \\ 120 \ 5-50 \\ 121 \ 6-6 \\ 122 \ 6-1 \\ 123 \ 6-1 \\ 126 \ 6-1 \\ 133 \ 6-10 \\ 133 \ 6-10 \\ 133 \ 6-10 \\ 133 \ 6-11 \\ 133 \ 6-12 \\ 134 \ 6-13 \\ 136 \ 6-15 \\ 137 \ 6-16 \\ 138 \ 6-17 \\ 139 \ 6-18 \\ 140 \ 6-19 \\ 141 \ 6-20 \\ 141 \ 6-20 \\ 141 \ 6-20 \\ 142 \ 6-21 \ 142 \ 6-21 \\ 142 \ 6-21 \ 142 \ 6-21 \\ 142 \ 6-21 \ 142 \ 6-21 \ 142 \ 6-21 \ 142 \ 6-2$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 10 - Exit Route 37 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 10 - Exit Route 30 LED - C Yard Track 12 - Exit Route 40 LED - C Yard Return Tock Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Green Black Reset button C Yard Panel - Green Black Reset Dutton C Yard Panel - Green Black Reset Dutton C Yard Panel - Red ED (Y1) - Entry C Yard D Coupancy Track 4.1.1 Yellow LED [Y1] - Entry C Yard O Coupancy Track 4.1.2 Red LED [Y1] - Entry C Yard O Coupancy Track 4.2.2 Red LED [Y2] - Entry C Yard O Coupancy Track 5.2.1 Yellow LED [Y2] - Entry C Yard O Coupancy Track 5.2.2 Red LED [Y2] - Entry C Yard O Coupancy Track 5.2.1 Yellow LED [Y3] - Entry C Yard O Coupancy Track 6.1.2 Red LED [Y3] - Entry C	1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1		1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 11 TK 12 T	1st occupancy i 2nd occupancy i 2nd occupancy i Entry 1st Red Pin 6-2 3 6-6 12 6 13 6 14 12 6 15 6 13 14 15 15 16 17 18 19 10 10 11 12 13	is Yellow a is Yellow a Exit Exit Col Panel 2nd Rec 6-4 6-4 6-8 6-8 6-12 6-12	and Recard Recar	d LED's s de LED's Board Entry 1st Rec 1.1 2.3 3.1	before	entry ladd the Exit la Exit Exit 2nd Red 5.1 5.3 6.1 6.1	Pin 2	Entry Panel 151 Yellow 6-1 6-5 6-9 6-13 6-13	Exit Detector 6-3 6-7 6-7 6-11	Black R 1.3 5.1 2.3 6.1 3.3	DBL Blue Y 1.4 Solution Solution <	222 C Y Y Red Red R 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ard Only Yellow Y 1.2 5.4 2.2 6.4	Cable Number 1 1 5 1 5 1 5 2 6 2 6 2 6 3 3 7
$\begin{array}{c} 108 \\ 5-38 \\ 109 \\ 5-39 \\ 110 \\ 5-40 \\ 111 \\ 5-41 \\ 112 \\ 5-42 \\ 113 \\ 5-43 \\ 114 \\ 5-44 \\ 115 \\ 5-45 \\ 116 \\ 5-45 \\ 117 \\ 5-47 \\ 118 \\ 5-48 \\ 119 \\ 5-49 \\ 120 \\ 5-50 \\ 121 \\ 122 \\ 6-1 \\ 122 \\ 6-1 \\ 122 \\ 6-2 \\ 124 \\ 6-3 \\ 125 \\ 6-4 \\ 126 \\ 6-5 \\ 127 \\ 6-6 \\ 128 \\ 6-7 \\ 129 \\ 6-8 \\ 130 \\ 6-9 \\ 131 \\ 6-10 \\ 132 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 133 \\ 6-12 \\ 6-11 \\ 138 \\ 6-17 \\ 139 \\ 6-18 \\ 140 \\ 6-19 \\ 141 \\ 6-20 \\ 142 \\ 6-21 \\ 143 \\ 6-22 \\ 6-21 \\ 143 \\ 6-22 \\ 6-21 \\ 143 \\ 6-22 \\ 6-21 \\ 143 \\ 6-22 \\ 6-21 \\ 143 \\ 6-22 \\ 143 \\ 143 \\ 6-22 \\ 143 \\ 143 \\ 145 \\$	Route 35 LED - C Yard Track 9 - Exit Route 36 LED - C Yard Track 9 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 10 - Exit Route 38 LED - C Yard Track 11 - Exit Route 40 LED - C Yard Track 12 - Exit Route 41 LED - C Yard Return Loop Main Line Entry - Track 1 Route 41 LED - C Yard Return Track Entry Track 2 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Route 41 LED - C Yard Return Track Entry Track 3 Reset button C Yard Panel - Green Black CYard D Coupancy Track 4.1.1 Yellow LED [Y1] - Entry CYard O Coupancy Track 4.1.2 Red LED [Y1] - Entry CYard O Coupancy Track 4.2.1 Yellow LED [Y2] - Entry CYard O Coupancy Track 5.1.1 Yellow LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y2] - Entry CYard O Coupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.1.2 Red LED [Y3] - Entry CYard Occupancy Track 5.2.2 Red LED [Y3] - Entry CYard Occupancy Track 5.2.2 Red LED [Y3] - Entry	1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1		36 37 38 39 40 41 42 43 44 45 PON			TK 9 TK 10 TK 10 TK 11 TK 12 TK 12 18 G Black Active Low	1st occupancy i 2nd occupancy i 2nd occupancy i Entry To Cont 1st Red Pin 6-2 3 6-6 6 6 6 6 9 6-10 9 6-14 12 6-14 12	is Yellow a is Yellow a Exit Exit Col Panel 2nd Rec 6-4 6-4 6-8 6-8 6-12 6-12	and Recard Recar	d LED's cd d LED's dd d LED's dd Board Entry 1st Rec 1.1 1.3 2.1 2.3	before	entry ladd the Exit la Exit Exit 2nd Red 5.1 5.3 6.1 6.1	Pin 2	Entry Panel 151 Yellow 6-1 6-5 6-9 6-13 6-13	Exit Detector 6-3 6-7 6-7 6-11	Black R 1.3 5.1 2.3 6.1 3.3	DBL Blue Y 1.4 5.2 5.2 5.2 2 2 2 2 2 2 2 2 3 2 4 5.2 <td>22's C Y Red R R 1.1 5.3 5.3 2 2.1 2 2.1</td> <td>ard Only Yellow Y 1.2 5.4 2.2 6.4</td> <td>Cable Number 1 1 5 1 5 1 5 2 6 2 6 2 6 3 3 7</td>	22's C Y Red R R 1.1 5.3 5.3 2 2.1 2 2.1	ard Only Yellow Y 1.2 5.4 2.2 6.4	Cable Number 1 1 5 1 5 1 5 2 6 2 6 2 6 3 3 7

					_				-			1		_	_		_		_		_		_		_			
	C Yard Occupancy Track 9.2.2 Red LED [Y6] - Exit				1		1						Active Low			6-24	17			7.3	17					7.3		7
	C Yard Occupancy Track 10.1.1 Yellow LED [Y7] - Entry			-	-		1	-					Active Low									6-25			4.4			4
147 6-26 148 6-27	C Yard Occupancy Track 10.1.2 Red LED [Y7] - Entry C Yard Occupancy Track 10.2.1 Yellow LED [Y7] - Exit			-	1	_	1						Active Low Active Low	6-26	21			4.1	19				6.27	4.3	0.2			4
	C Yard Occupancy Track 10.2.1 Reliow LED [Y7] - Exit				1		1						Active Low			6-28	20			8.1	20		6-27	8.1	8.2			8
	C Yard Occupancy Track 10.2.2 Red LED [17] - Entry			-	1	1	1						Active Low			0-20	20			0.1	20	6-29		0.1			4.2	4
	C Yard Occupancy Track 11.1.1 reliew EED [16] - Entry				1	-	1						Active Low	6-30	24			4.3	22			0-25				41	4.2	4
	C Yard Occupancy Track 11.2.1 Yellow LED [Y8] - Exit				-	1	1						Active Low	0.00	24			4.5	22				6-31			-	8,4	8
	C Yard Occupancy Track 11.2.2 Red LED [Y8] - Exit			1	1	-	1						Active Low			6-32	23			8.3	23		0.51			8.3	0.4	8
154 6-33	C Yard Occupancy Track 12.1.1 Yellow LED [Y9] - Entry			1	-	1	1						Active Low			0.52	2.5			0.5		6-33			9.2	0.5		9.1
155 6-34	C Yard Occupancy Track 12.1.2 Red LED [Y9] - Entry				1	-	1						Active Low	6-34	27			9.1	25					9.1				9.1
156 6-35	C Yard Occupancy Track 12.2.1 Yellow LED [Y9] - Exit					1	1						Active Low										6-35				9.4	9.2
157 6-36	C Yard Occupancy Track 12.2.2 Red LED [Y9] - Exit				1		1						Active Low			6-36	26			9.3	26					9.3		9.2
162 6-37	C Yard Return Loop Siding 2.1.1 Yellow [S2] - Entry					1	1						Active Low									6-37					11.4	11
163 6-38	C Yard Return Loop Siding 2.1.2 Red [S2] - Entry				1		1						Active Low	6-38	2				2							11.3		11
158 6-39	C Yard Return Loop Siding 2.2.1 Yellow [S1] -Exit					1	1						Active Low										6-39		10.2			10
159 6-40	C Yard Return Loop Siding 2.2.2 Red [S1] - Exit				1		1						Active Low			6-40	1			10.1	1			10.1				10
164 6-45	C Yard Return Loop Siding 3.1.1 Yellow [S2] - Entry					1	1						Active Low									6-45			11.2			10
	C Yard Return Loop Siding 3.1.2 Red [2] - Entry				1		1						Active Low	6-46	4				4					11.1				11
	C Yard Return Loop Siding 3.2.1 Yellow [S1] - Exit						1						Active Low										6-47				10.4	10
	C Yard Return Loop Siding 3.2.2 Red [S1] - Exit				1		1						Active Low			6-48	3			10.3	3					10.3		10
	C Yard Approach Occupancy 3 (+) off D Panel												+5vdc															
	C Yard Approach Occupancy 3 (-) off D Panel					1	1						Active Low															
	C Yard AT t track status R/G LED	1		-			1						Auto Throw Board															
	C Yard AT t track status R/G LED	1		-			1	-		40	41	20	Auto Throw Board												-			
170 7-1	C Yard Approach Occupancy 4 C Yard Approach Occupancy 5					1	1			19 20	1k 1k	38 39	Active Low Active Low												-			
172 7-3	C Yard Approach Occupancy 6			1		1	1			20	1k	40	Active Low															
	C Yard Approach Occupancy 7						1			22	1k	40	Active Low															
174 7-5	C Yard Approach Occupancy 8						1			23	1k	42	Active Low															
175 7-6	C Yard Approach Occupancy 9					1	1			24	1k	43	Active Low															
176 7-7	C Yard Approach Occupancy 10					1	1			25	1k	44	Active Low															
177 7-8	C Yard Approach Occupancy 11						1			26	1k	45	Active Low															
	C Yard Approach Occupancy 12					_	1			27	1k	46	Active Low															
	C Yard Approach Occupancy 13			-		1	1			28	1k	47	Active Low															
180 7-11 181 7-12	C Yard Approach Occupancy 14						1			29 30	1k 1k	48 49	Active Low	-											-			
	C Yard Approach Occupancy 15 C Yard Approach Occupancy 16			-		1	1			30	1K 1k	49 50	Active Low Active Low												-			
	C Yard Approach Occupancy 17			1		1	1			32	1k	51	Active Low															
	C Yard Approach Occupancy 18						1			33	1k	52	Active Low															
	C Yard Approach Occupancy 19						1			34	1k	53	Active Low															
186	C Yard Occupancy Common +5v												18 G Red															
																									_			
				-																								
Totals		8	38	1	32	55	128 3	9 Wire						-											-			
T01	Turnout 1 - Arrival Track/D-Yard Exit					-		Wire 50	1-2				LH												-			
	Turnout 2 - D-Yard/C Yard Approach Tracks							50	3-4				CL												-			
T03	Turnout 3 - D-Yard Entry/ D Yard Departure Track							50	5-6				IH															
TO4	Turnout 4 - D-Yard Entry Track 1			1		1		50	7-8				LH						\vdash									
T05	Turnout 5 - D-Yard Entry Track 2							50	9-10				RH	1														
TO6	Turnout 6 - D-Yard Entry Track 3							50	11-12				RH															
T07	Turnout 7 - D-Yard Entry Track 4/5							50	13-14				RH															
T08	Turnout 8 - D-Yard Exit Track 4			1				50	15-16				RH															
T09	Turnout 9 - D-Yard Exit Track 3	-						50	17-18	ļ		l	RH	I					\vdash									<u> </u>
T010 T011	Turnout 10 - D-Yard Exit Track 2/1 Turnout 11 - C Yard Entry Ladder			-	\vdash			50	19-20 21-22				RH LH						\vdash		+				-			<u> </u>
T011 T012	Turnout 11 - C Yard Entry Ladder Turnout 12 - C-Yard Entry Ladder	-		+	\vdash			15 15	21-22 23-24				RH	+		 			\vdash		+				+			┌───┨
T012 T013	Turnout 12 - C-Yard Entry Ladder Turnout 13 - C-Yard Entry Ladder			+				15	23-24 25-26				RH	1		-			+						1			<u> </u>
	Turnout 14 - C-Yard Entry Ladder			1				15	27-28				RH	1		1									1			
	Turnout 15 - C-Yard Entry Ladder			1				15	29-30				RH	1											1			
TO16	Turnout 16 - C-Yard Entry Ladder			1				15	31-32				RH	Ī														
	Turnout 17 - C-Yard Entry Ladder							15	33-34				RH															
	Turnout 18 - C-Yard Entry Ladder					T	T	15	35-36				RH															
	Turnout 19 - C Yard Entry Ladder							45	37-38				RH															
TO20	Turnout 20 - C Yard Exit Tracks 4-8 to Main			_	\square			45	39-40	l			LH												-			
T021	Turnout 21 - C Yard Exit Ladder Tracks 4-8	L	L	-	\square			45	41-42				LH						\vdash									<u> </u>
T022	Turnout 22 - C-Yard Exit Ladder Tracks 4-8				\vdash			45 45	43-44 45-46				RH	+							+							
TO23 TO24	Turnout 23 - C Yard Exit Ladder Tracks 4-8 Turnout 24 - C-Yard Exit Ladder Tracks 4-8			+	\vdash	-+		45	45-46 47-48				RH	1		-			\vdash						1			—
	Turnout 24 - C-Yard Exit Ladder Tracks 4-8 Turnout 25 - C Yard Exit Tracks 9-12 to Main			+				45	47-48 49-50				LH	1		<u> </u>			\vdash		+				1			<u> </u>
T025	Turnout 25 - C Yard Exit Tracks 9-12 to Main Turnout 26 - C Yard Exit Ladder Tracks 9-12			1				45	49-50 51-52				RH	1					\vdash						1			
T020 T027	Turnout 27 - C Yard Exit Ladder Tracks 9-12		İ		\vdash	1		45	53-54				RH	1		1			\vdash									
TO28	Turnout 28 - C Yard Exit Ladder Tracks 9-12			1				45	55-56				RH	1		1									1			
TO29	Turnout 29 - C Yard Return Loop Main/Enter Siding							20	57-58				LH															
TO30	Turnout 30 - C Yard Return Loop Entry Siding Track 2/3							20	59-60				RH															

Ener I				1 1	-	_					<u> </u>				-	1 1	-	1	1		<u> </u>		· · · · · ·
TO31	Turnout 31 - C Yard Return Loop Exit Siding Track 2					_		45	61-62			RH			_						 		
TO32	Turnout 32 - C Yard Return Loop Exit Siding Track 3							45	63-64			LH											
TO33	Turnout 33 - D Yard Arrival Track/Departure Track - AT								Hare			33 - LH											
TO34	Turnout 34 - C Yard return loop - AT								Hare			34 - LH											
								1200														ļ	
																						— I	
	Routes					Ribb	on cable	e summary	/			Comment											
	D Yard Helix Return Loop	1				Nur	m	Wires	Туре														
	Helix Enter D Yard	1				1		28	45' 40 wire			D Yard PB and Route LED										— I	
	D Yard Exit to Helix	1				2		12	25'			D Yard t/c turnout LED's									_		
	D Yard to D Yard	1				3		3	10' reuse			C Yard RL Occupancy 1-3											
	D Yard to C Yard	1				3		21	10' reuse		-	D Yard Occupancy tracks											
	C Yard Helix Return Loop Sidings	6				4		4	12' ribbon			D Yard Up/Down/Open LED'	5										
	C Yard Exit 9 Routes	9				5		49	40' 50 wire			C Yard PB and Route LED											
	C Yard Entry 9 Routes	9				6		42	50'			C Yard S1-2, Y1-9 Occupancy	3										
	D Yard Entry	5				7		16	6' reuse			C Yard RL Occupancy 4-19											
	D Yard Exit	4				8		4	10'			C Yard AT t/c LED's											
											-												
	Outputs	то	Tortois	e		Тур	e																
	Turnouts																						
	D Yard Exit/Helix Approach Track	1	1			LH																	
	Dentry	4	4			RH																	
	Dexit		3			RH															_		
	D Yard Entry/Departure Track		1			LH															_		
	Enter C/D Yard		1			LH C															_		
	Centry		9			RH															_		
	Cexit		7			RH															_		
	C Yard Exit Main 4-8		1			LH																	
	C Yard Exit to Main 9-12		1			LH																	
	D Yard Helix return		1			LH																	
	C Yard Helix Tracks 2-3		2			LH																	
	C Yard Helix Tracks 2-3		2	+ +		RH	1 1		1	1 1			i			1 1	- 1	1	1	1			
		2																					