






























































































































ID		Task Mode	Task Name	Duration	Start
1			SBS Installation Schedule	236 days	Mon 9/21
2			<i>Milestones</i>	235 days	Mon 9/21
3			Post Beam Checklist - Installation Begins	0 days	Mon 9/21
4			Turn Off LCW Supply to Hall (need to be coordinated with other halls)	0 days	Thu 10/1
5			Turn Main LCW System Back On (coordinate with C. Jones)	0 days	Thu 10/15
6			LCW Upgrade Complete	0 days	Thu 11/5
7			PREX/CREX Removal Complete - Power Upgrade Work Can Begin (inside the Hall)	0 days	Mon 12/7
8			RHRS Decommissioning Complete - Replacement of Main AHU Begins	0 days	Fri 2/26
9			Begin Transporting SBS Magnet Parts to Hall	0 days	Thu 3/4
10			Prepare Initial Set of Equipment Racks for Transporting to Hall (not involved in testing)	0 days	Thu 3/25
11			HCAL Detector Ready to Transport to Hall	0 days	Mon 4/19
12			Big Bite Detector Ready for Transporting to Hall	0 days	Mon 5/17
13			Begin Connecting Electronics in Upstream Bunker (non-collaboration/detectors)	0 days	Mon 6/21
14			Begin Cool Down of LHRS	0 days	Mon 6/21
15			GEN-RP Detector Ready to Transport to Hall	0 days	Fri 6/25
16			Begin Connecting GeN-RP Electronic (collaboration)	0 days	Tue 7/6
17			Begin Connecting HCAL Electronics (collaboration)	0 days	Tue 7/6
18			Begin connecting BB Electronics (Collaboration)	0 days	Tue 7/6
19			AHU Installation Complete	0 days	Fri 7/16
20			Complete Pre-Beam Checklist - Installation Complete	0 days	Fri 9/3
21			<i>Preliminaries</i>	19 days	Mon 9/21
22			Post Beam Checklist - Installation Begins	0 days	Mon 9/21
23			RADCON Survey / Hold Around Pivot	19 days	Mon 9/21

Project: SBS Installation
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Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Critical	
Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	






















ID		Task Mode	Task Name	Duration	Start
24			FML Work List (maintained by FML)	236 days	Mon 9/21
25			LCW Pressure Sensor	5 days	Mon 9/21
26			Various Water Leak Repairs	40 days	Fri 10/9
27			Hall A 2MVA Power Upgrade	20 days	Tue 12/8
28			Electrical Retrofits Due to Detector Rotation	9 days	Tue 1/19
29			Relocate ODH Monitor / Alarm System	9 days	Mon 2/1
30			HVAC Retrofits Due to Detector Rotation	2 days	Fri 2/12
31			Lighting Replacement	9 days	Tue 2/16
32			Hall A AHU Replacement (integrated using a schedule provided by Celia on 5/20/21)	143 days	Mon 2/15
33			Final Design M&H	29 days	Tue 3/9
34			Site Visit - Subs Pre-bid	1 day	Thu 4/8
35			AHU/Condensor PO	1 day	Wed 3/3
36			Exh Fan PO	1 day	Thu 3/18
37			Submittal - AHU AAN	1 day	Wed 3/24
38			Submittals - Exh Fan	2 days	Thu 4/1
39			Final Proposal	14 days	Tue 4/6
40			Training	75 days	Mon 2/15
41			Final PO	1 day	Fri 5/21
42			Issue Sub/Vendor Pos	3 days	Mon 5/10
43			Subcontractor Training	15 days	Thu 5/13
44			Submittals - Other/AHA	10 days	Wed 4/21
45			Mobilization / Field Verification	5 days	Mon 5/24
46			Structural Work	10 days	Fri 4/30































Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
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Inactive Milestone		Finish-only		Manual Progress	






















ID	 Task Mode	Task Name	Duration	Start
47		Submittals - Struct DWGs	10 days	Fri 4/30
48		Submittals- Struct Appr	2 days	Fri 5/14
49		Field Verify Dimension	1 day	Tue 5/18
50		Submit Demo Plan	5 days	Thu 5/13
51		Submittal Demo Plan Approved	2 days	Thu 5/20
52		Demo Platform	9 days	Mon 5/24
53		Fabricate Platform	14 days	Mon 5/24
54		Platform special Inspections	14 days	Mon 5/24
55		Paint New Platform	5 days	Mon 6/14
56		Install AHU platform	10 days	Mon 6/21
57		Civil	10 days	Fri 6/4
58		Util Loc	1 day	Fri 6/4
59		Excavation Permit?	1 day	Mon 6/7
60		Excavate New Pad	2 days	Mon 6/7
61		Concrete New Pad	5 days	Wed 6/9
62		Pneumatic Demo Existing CU Pad	1 day	Thu 6/10
63		Demo Existing CU Pad	5 days	Fri 6/11
64		Mechanical Install	66 days	Mon 4/26
65		Submittal - Refrig Pipe	10 days	Mon 4/26
66		Submittal - Pipe Appr	2 days	Mon 5/10
67		Submittal - Duct	10 days	Fri 4/30
68		Submittal - Duct Appr	2 days	Fri 5/14
69		Evacuate Refrig/Oil	3 days	Fri 6/4


























Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
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ID		Task Mode	Task Name	Duration	Start
70			AHU Arrival at PCR	1 day	Thu 4/29
71			AHU Coil at PCR	1 day	Fri 5/14
72			AHU Coil install	10 days	Mon 5/17
73			Demo Exhaust Fan	2 days	Tue 6/1
74			GPR Inspections	3 days	Wed 5/26
75			Mechanical Rough In	9 days	Tue 6/1
76			Insulation Rough In	5 days	Mon 6/14
77			Install 101-AHU-01	2 days	Tue 7/6
78			Receive Filter	1 day	Fri 6/11
79			Install Filter Section	2 days	Thu 7/8
80			Install duct heater	2 days	Thu 7/8
81			Duct Work Install	2 days	Thu 7/8
82			Demo existing CU	1 day	Wed 6/9
83			Install 101-CU-1	2 days	Wed 6/16
84			Mechanical Tie In AHU	5 days	Thu 7/8
85			Insulation Complete	10 days	Thu 7/15
86			Install new exhaust fan	10 days	Thu 7/15
87			Electrical	40 days	Fri 4/30
88			Submittals - Electrical	10 days	Fri 4/30
89			Submittal - Elect Appr	6 days	Fri 5/14
90			Demo existing electrical	5 days	Wed 6/9
91			Electrical Rough In	14 days	Mon 5/24
92			Electrical Install	10 days	Mon 6/14


























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Inactive Milestone		Finish-only		Manual Progress	






















ID		Task Mode	Task Name	Duration	Start
93			Controls	36 days	Thu 5/13
94			Submittals - Controls	10 days	Thu 5/13
95			Submittal - Control App	2 days	Thu 5/27
96			Controls Rough In	9 days	Tue 6/1
97			Controls Install	10 days	Mon 6/14
98			Final Controls	5 days	Mon 6/28
99			Start up - Acceptance	44 days	Tue 7/6
100			Start up - Checkout	1 day	Tue 7/6
101			AHU running in manual	2 days	Mon 7/12
102			TABS	3 days	Wed 7/7
103			Commisioning	10 days	Mon 7/12
104			Training	1 day	Mon 7/26
105			Substantial completion	1 day	Tue 7/27
106			Close out	28 days	Wed 7/28
107			LCW Heat Exchanger [scheduling postponed]	4 days	Mon 9/21
108			Replace Obsolete XL100 Honeywell Controller [scheduling postponed]	4 days	Mon 9/21
109			Fire Safety System: Smoke Removal Fans Replacement [scheduling postponed]	4 days	Mon 9/21
110			Beam Dump Cooling Study [scheduling postponed]	4 days	Mon 9/21
111			Beam Dump Cooling Capacity Increase [scheduling postponed]	4 days	Mon 9/21
112			Nitrogen Vaporizer for Dehumidification System [scheduling postponed]	4 days	Mon 9/21
113			Fire Safety System: End Station Fire Detection and Suppression [scheduling postponed]	4 days	Mon 9/21
114			LCW Pressure Regulation (Hall B) [scheduling postponed]	4 days	Mon 9/21
115			<i>LCW Upgrade (has separate detailed drawings & procedure)</i>	34 days	Mon 9/21

























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ID		Task Mode	Task Name	Duration	Start
116	✓		Shut Off LCW Entering the Hall and Drain System	4 days	Mon 9/21
117	✓		Remove downstream (4") section of pipe that connects to arms	5 days	Fri 9/25
118	✓		Drain System and relieve pressure Upstream of Main (8") Valves	1 day	Fri 10/2
119	✓		Contact FML To Remove Pressure/Flow Sensors	1 day	Mon 10/5
120	✓		Remove 8" Valves	1 day	Tue 10/6
121	✓		Cut Off 90 Degree Elbows on 8" Lines	2 days	Wed 10/7
122	✓		Install New Flanges on 8" Pipes	2 days	Fri 10/9
123	✓		Install New 8" Valves	1 day	Tue 10/13
124	✓		Install 8" to 4" Manifolds	2 days	Wed 10/14
125	✓		Reconnect 4" LCW Lines Going to Pivot	2 days	Fri 10/16
126	✓		Position New LCW Structure and Manifold	1 day	Tue 10/20
127	✓		Weld in 4" Line Going Down to New Manifold	2 days	Wed 10/21
128	✓		Connect New Manifold to LCW System	1 day	Fri 10/23
129	✓		Disconnect & Cap Water Lines Over the Pivot Going to RHRS	3 days	Mon 10/26
130	✓		Pressurize LCW System and Check For Leaks	1 day	Thu 10/29
131	✓		Complete Pressure Test of New Section of LCW for Engineering Checkout	3 days	Fri 10/30
132	✓		Document and Signoff on In-Service LCW System.	2 days	Wed 11/4
133			Target Group Work (Target Group has details)	29 days	Mon 9/21
134	✓		Warm Up Target (PREX/CREX) [anticipated]	2 days	Mon 9/21
135	✓		Bleed Up and Open Target Chamber (PREX/CREX) [anticipated]	2 days	Fri 10/16
136	✓		Complete as Found Surveys on Target and HRS (PREX/CREX) [anticipated]	3 days	Tue 10/20
137	✓		Remove Target (PREX/CREX) [anticipated]	5 days	Fri 10/23
138			Install New Turbos and Cables on Chamber - Hall A Tech Staff [scheduling postponed]	1 day	Mon 9/21





















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Task		Inactive Summary		External Tasks	
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Inactive Milestone		Finish-only		Manual Progress	






















ID		Task Mode	Task Name	Duration	Start
139			Install Target (SBS) [scheduling postponed]	1 day	Mon 9/21
140			Complete Startup Surveys [scheduling postponed]	1 day	Mon 9/21
141			Close and Pump Down Chamber (SBS) [scheduling postponed]	1 day	Mon 9/21
142			Cool Down Target (SBS) [scheduling postponed]	1 day	Mon 9/21
143	✓		Decommission RHRS & Positioning LHRS	103 days	Mon 9/21
144	✓		Bleed Up Vacuum Systems	1 day	Mon 9/21
145	✓		Bleed Up Entrance Beam Line (downstream of raster)	1 day	Mon 9/21
146	✓		Bleed Up Exit Beam Line	1 day	Mon 9/21
147	✓		Bleed Up Both Spectrometers	1 day	Mon 9/21
148	✓		Remove PREX/CREX Equipment	35 days	Fri 10/16
149	✓		Remove Pivot Fence	1 day	Fri 10/16
150	✓		Remove Ion Chamber Near Pivot (request through SSG)	1 day	Mon 10/19
151	✓		Disconnect Chamber From Entrance Beam Line	1 day	Tue 10/20
152	✓		Remove Turbo Pump and Valve From Chamber	2 days	Wed 10/21
153	✓		Remove Poly-Blocks Between Chamber and Collimator	2 days	Fri 10/23
154	✓		Remove Bellows and Valve Between Collimator and Chamber	2 days	Tue 10/27
155	✓		Disconnect Exit Beam Line and Spectrometers' Feed-Thrus	1 day	Thu 10/29
156	✓		Disconnect Septum Wiring	3 days	Fri 11/6
157	✓		Move Septum Magnet Upstream to Clear Spectrometer Nose (~4"-6")	2 days	Wed 11/11
158	✓		Remove Left and Ride Side Work Platforms	1 day	Fri 11/13
159	✓		Roll PREX/CREX Equipment Out to Beam Left	1 day	Mon 11/16
160	✓		Remove Sky Shine Shielding and Support Structure	2 days	Tue 11/17
161	✓		Remove Target Chamber and Base Plate	1 day	Thu 11/19

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Task		Inactive Summary		External Tasks	
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Inactive Milestone		Finish-only		Manual Progress	

























ID		Task Mode	Task Name	Duration	Start
162	✓		Remove Top Half of Septum Magnet	2 days	Fri 11/20
163	✓		Remove Collimator, Concrete Shielding, and Vacuum Feed-Thrus From Bore of Septum	1 day	Tue 11/24
164	✓		Reinstall Top Half of Septum Magnet	2 days	Wed 11/25
165	✓		Remove Septum Magnet From Pivot	1 day	Tue 12/1
166	✓		Remove Septum Magnet Base Plate	1 day	Wed 12/2
167	✓		Remove Septum Magnet Carriage	1 day	Thu 12/3
168	✓		Remove Bridge From Pivot	2 days	Fri 12/4
169	✓		Install Work Platform Around Distribution Can (removed from schedule)	8 days	Tue 12/8
170	✓		Remove Right Q1 Magnet	5 days	Fri 12/18
171	✓		Cryogenic Work (has a separate detailed procedure)	44 days	Mon 9/21
172	✓		Power Supply Testing and Prep Work	9 days	Mon 9/21
173	✓		Warm Up Cryogenic System	15 days	Fri 10/2
174	✓		Disconnect RHRS From Cryogenic System	20 days	Fri 10/23
175	✓		Disconnect and Label Lines Going to RHRS (above pivot)	10 days	Tue 12/8
176	✓		Remove Detectors From RHRS	6 days	Tue 12/22
177	✓		Remove SAMs (LUMIs) From Exit Beam Line and Cap Opening	1 day	Tue 1/12
178	✓		Remove Bridge That Connects the Two Spectrometers	1 day	Wed 1/13
179	✓		Clear Floor Space and Move RHRS to ~45 Degrees	20 days	Tue 12/8
180	✓		Remove Big Box Power Supply From RHRS	13 days	Tue 1/12
181	✓		Request Electrician to Disconnect Main Power to Big Box PS	4 days	Tue 1/12
182	✓		Disconnect Water and Magnet's Leads	2 days	Tue 1/19
183	✓		Move (Walter's) Platform Table into Position on Inside of RHRS	0.5 days	Thu 1/21
184	✓		Remove Shielding and Handrails From RHRS Platform	0.5 days	Thu 1/21

Project: SBS Installation
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Task		Inactive Summary		External Tasks	
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ID		Task Mode	Task Name	Duration	Start
185	✓		Remove Big Box Power Supply From RHRS Platform	1 day	Fri 1/22
186	✓		Reinstall RHRS Platform Handrails	0.5 days	Mon 1/25
187	✓		Place Big Box PS into its Original Position (behind green wall)	0.5 days	Mon 1/25
188	✓		Remove Platform Table From the Hall (ask Walter where to put)	1 day	Tue 1/26
189	✓		Request Electrician to reconnect Main Power to Big Box PS - Postponed	1 day	Wed 1/27
190	✓		Connect Magnet Leads (Big Bite) and Water to Big Box PS - Postponed	2 days	Thu 1/28
191	✓		Move RHRS Pass Roll Up Door	29 days	Tue 1/19
192	✓		Continue Clearing Floor Space Behind Green Wall Area	13 days	Tue 1/19
193	✓		Electrical Retrofits Due to Detector Rotation	9 days	Tue 1/19
194	✓		Relocate ODH Monitor / Alarm System	9 days	Mon 2/1
195	✓		Move Small AHU (see FML work list)	10 days	Fri 2/12
196	✓		Remove Interfering Electronic Equipment Racks Behind Green Wall	4 days	Mon 2/1
197	✓		Remove Post Underneath Pivot That Interferes With RHRS Movement	10 days	Fri 2/5
198	✓		Move and Park RHRS Pass Roll Up Door	1 day	Fri 2/26
199			<i>L-HRS & Exit Beamline Work</i>	69 days	Fri 3/19
200			Prep / LHRS Work	69 days	Fri 3/19
201	✓		Clear Floor Space Needed to Move LHRS	5 days	Fri 3/19
202	✓		Rotate L-HRS Out to ~105 for Removing Exit Beamline	1 day	Fri 3/26
203	✓		Install Upstream Electronics Bunker and Racks	9 days	Mon 3/29
204			Install SBS Power Supply in Upstream Bunker	5 days	Mon 6/7
205			Install Power Outlets in Upstream Bunker	10 days	Mon 6/7
206			Begin Connecting Electronics in Upstream Bunker (non-collaboration/detectors)	0 days	Fri 6/18
207			Install New Turbos and Cables on Target Chamber	3 days	Tue 6/22

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
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ID		Task Mode	Task Name	Duration	Start
208	✓		Remove Shielding Blocks Underneath Exit Beamline	2 days	Mon 3/29
209			Exit Beamline Work	50 days	Fri 3/19
210	✓		Disconnect Turbo And Instrumentation For Exit Beamline	1 day	Fri 3/19
211	✓		Remove Beamline Between Chamber and Corragated (see drawings)	2 days	Mon 3/22
212	✓		Layout Mounting Holes for Exit Beamline Tower (S&A)	2 days	Wed 3/31
213	✓		Install Exit Beamline Tower (see procedure for alignment requirements)	10 days	Fri 4/2
214	✓		Remove Old Support Infrastructure for Exit Beamline	10 days	Fri 4/2
215	✓		Install New flange for Connecting Shielded Beamline (see drawings)	2 days	Fri 4/16
216			Install Turbo in New Position Along Exit Beamline (see drawings)	5 days	Fri 4/16
217	✓		Install Lower Section of Target Chamber	1 day	Fri 4/23
218			Install Isolation Valve Between Chamber and Exit Beamline	1 day	Mon 4/26
219			Assemble Correctors and Shielded Beamline Subassembly	3 days	Tue 4/27
220			Install Correctors and Shielded Beamline Subassembly on Tower	1 day	Fri 4/30
221			Check Alignment of Correctors and Shielded Beamline	3 days	Mon 5/3
222			Make Final Connections of Shielded Beamline: Chamber and Exit .	1 day	Thu 5/6
223			Install Temp Sensors on Correctors	4 days	Fri 5/7
224			Install Upper Section of Target Chamber	1 day	Thu 5/13
225			Pump Down and Leak Check Exit Beamline (ensure isolation valve is closed)	5 days	Fri 5/14
226			Complete (2A) Survey and Alignment of Correctors and Shielded Beamline	5 days	Fri 5/21
227			Big Bite Equipment	23 days	Fri 5/21
228	✓		Move Big Bite Tracks From Right to Left Side of Pivot (S&A new position)	5 days	Fri 5/21
229	✓		Install Big Bite Stand On Pivot (see procedure)	1 day	Fri 5/28
230	✓		Survey Pivot Stand Height and Position During Motion	1 day	Tue 6/1



























Project: SBS Installation
Date: Mon 6/7

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ID		Task Mode	Task Name	Duration	Start
231	✓		Install Big Bite Cradle on Pivot Stand and Check Motion	1 day	Wed 6/2
232	✓		Install Big Bite Magnat on Pivot Stand	2 days	Thu 6/3
233	✓		Survey and Align Big Bite Magnet (2A)	1 day	Mon 6/7
234			Connect Power Leads To Big Bite Magnet	1 day	Tue 6/8
235			Connect Temp Sensors and Electronics	3 days	Wed 6/9
236			Connect LCW	1 day	Mon 6/14
237			Install Guards	3 days	Tue 6/15
238			Conduct Low Power Testing	1 day	Fri 6/18
239			Install Sieve Plate	1 day	Mon 6/21
240			Survey Sieve Plate	2 days	Tue 6/22
241			Big Bite Detector Package	50 days	Fri 5/21
242	✓		Disconnect Big Bite Equipment Racks In TED (remaining)	2 days	Fri 5/21
243	✓		Transport Big Bite Equipment Racks To Hall	3 days	Tue 5/25
244	✓		Transport Big Bite Detectors To Hall	2 days	Fri 5/21
245	✓		Transport Big Bite Lockers and Supporting Equipment To Hall	3 days	Tue 5/25
246	✓		Install Extension on Big Bite Carriage	1 day	Thu 6/24
247	✓		Install Detector on Carriage	1 day	Fri 6/25
248	✓		Install Big Bite Electronics Shielding Hut	2 days	Mon 6/28
249			Install Big Bite Equipment Racks	3 days	Wed 6/30
250			Connect Big Bite Detector and Testing	20 days	Tue 7/6
251			SBS Equipment	132 days	Mon 3/1
252	✓		Disassemble Counterweight Assembly In Test Lab	5 days	Mon 3/1
253	✓		Disconnect Hydraulic Positioning System	1 day	Mon 3/1

























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ID		Task Mode	Task Name	Duration	Start
254			Disassemble Counterweight Steel and Weldment	1 day	Tue 3/2
255			Lay Counterweight Steel Down Flat	1 day	Wed 3/3
256			Disassemble Floor Plates	1 day	Thu 3/4
257			Prep Equipment and Material For Transporting To Hall	1 day	Fri 3/5
258			Transport 48D48 Magnet Steel and Counterweight To Hall A	9 days	Mon 3/8
259			Clear Floor Space In Test Lab Needed To Load Steel	1 day	Mon 3/8
260			Clear Floor Space For Delivering Steel In The Hall	1 day	Tue 3/9
261			Transport Magnet Steel and Counterweight Assembly To Hall	3 days	Wed 3/10
262			Transport Hydraulic Positioning System To Hall	2 days	Mon 3/15
263			Transport SBS Lockers and Remaining Equipment To Hall	2 days	Wed 3/17
264			Install 48D48 Magnet and Counterweight Assembly	94 days	Fri 3/19
265			Survey and Install SBS Floor Plates	5 days	Fri 3/19
266			Install Counterweight Assembly on Floor Plates	2 days	Fri 3/26
267			Install Hillman Rollers	1 day	Tue 3/30
268			Install Lifting Jacks and Springs	1 day	Wed 3/31
269			Connect Hydraulic Hoses and Pumps	1 day	Mon 6/7
270			Connect Hydraulic Electronics	2 days	Tue 6/8
271			Check and Adjust Hydraulic Pumps and Controls	2 days	Thu 6/10
272			Install Positioning Actuators	1 day	Mon 6/14
273			Connect Power and Test Actuators	2 days	Tue 6/15
274			Adjust Actuators and Limit Switches	2 days	Thu 6/17
275			Assemble 48D48 Magnet On Weldment (see procedure)	3 days	Mon 6/21
276			Test SBS and Counterweight Motion and Controls	2 days	Thu 6/24






















Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
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Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	






















ID		Task Mode	Task Name	Duration	Start
277			Install Field Clamps and Sieve Plates	1 day	Mon 6/28
278			Move SBS Into Starting Position	1 day	Tue 6/29
279			Survey and Align SBS (2A)	2 days	Wed 6/30
280			Connect LCW to SBS	3 days	Fri 7/2
281			Connect Power Leads To Magnet	2 days	Thu 7/8
282			Connect Temp Sensors and Electronics	3 days	Mon 7/12
283			Install Guards	7 days	Thu 7/15
284			Conduct Low Power Testing	1 day	Mon 7/26
285			Interface FSD Interlocks	1 day	Tue 7/27
286			Final Survey and Alignment of SBS (2B)	3 days	Wed 7/28
287			Transport and Install GeN-RP Detector	47 days	Tue 6/29
288			Transport Detector Parts to Hall	2 days	Tue 6/29
289			Assemble Detector Parts Inside Hall	9 days	Thu 7/1
290			Install Detector on SBS Magnet	10 days	Thu 7/15
291			Connect GeN-RP Electronics and Testing	26 days	Thu 7/29
292			Transport and Install HCAL	84 days	Fri 4/23
293	✓		Layout HCAL Floor Plates	1 day	Fri 4/23
294	✓		Disassemble HCAL Electronics In Test Lab	1 day	Mon 4/26
295	✓		Disassemble HCAL Sub-Assemblies In Test Lab	1 day	Tue 4/27
296	✓		Transport Electronic Rack To Hall	2 days	Wed 4/28
297	✓		Transport Sub-Assemblies To Hall	2 days	Fri 4/30
298	✓		Install HCAL Frame/Support Structure	1 day	Tue 5/4
299	✓		Install HCAL Modules on Support Structure	1 day	Wed 5/5






Project: SBS Installation
Date: Mon 6/7

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ID		Task Mode	Task Name	Duration	Start
300			Install Lead Wall	1 day	Thu 5/6
301			Install Work Access Platform	1 day	Fri 5/7
302			Install HCAL Equipment Racks Shielding Hut (local)	1 day	Mon 5/10
303			Install HCAL Equipment Racks (local)	2 days	Tue 5/11
304			Connect HCAL Electronics and Testing	70 days	Thu 5/13
305			Final Preparations	73 days	Mon 5/24
306			Clean up Cryogenic System for LHRS	15 days	Mon 5/24
307			Cooldown LHRS	36 days	Mon 6/21
308			Check for Proper Function on All Temp. Sensor (BB, SBS, and Correctors)	10 days	Tue 6/15
309			Make Sure Proper Ion Chamber are Installed	3 days	Tue 6/29
310			Check FSD Interfaces	5 days	Fri 7/2
311			Final Pumpdown and Leak Check Entrance Beamline	5 days	Mon 7/12
312			Final Pumpdown and Leak Check Exit Beamline	5 days	Mon 7/12
313			Final Pumpdown and Leak Check L-HRS	5 days	Mon 7/19
314			Final Pumpdown and Leak Check of Target Chamber (Target Group)	5 days	Mon 7/26
315			Final Survey and Align All SBS Equipment (2B)	5 days	Mon 8/2
316			Dial In The Cryo System	10 days	Mon 8/2
317			Test All Magnets and Power Supplies To Full Current	15 days	Mon 8/16
318			Remove Excessive Equipment From Hall	15 days	Mon 8/16
319			Complete Pre-Beam Checklist - Installation Complete	0 days	Fri 9/3
320					
321					
322			ADDITIONAL TASK NOT YET SCHEDULED:	1 day	Mon 9/21

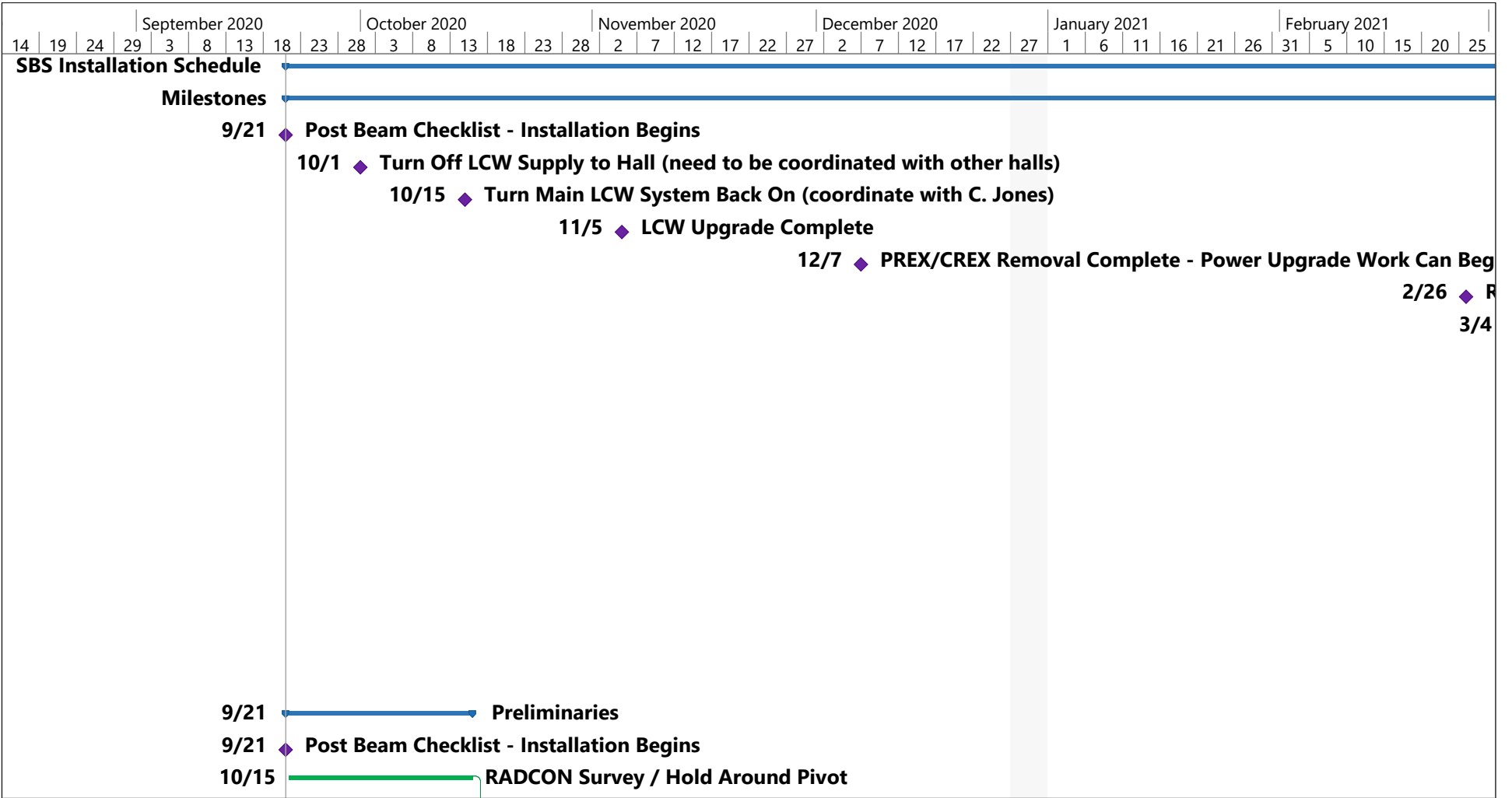
Project: SBS Installation
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ID		Task Mode	Task Name	Duration	Start
323			Renovate Hall A Counting House (coordinate with Ole)	1 day	Mon 9/21
324			Replace LQ2 Power Supply with RQ2 Power Supply (coordinate with Jack)	1 day	Mon 9/21
325			Replace the LD1 Multiplexer with the one from RD1 (coordinate with Jack)	1 day	Mon 9/21
326			Installation of Fiber Optic Cables From Hall to CH [FML per Alex request]	1 day	Mon 9/21

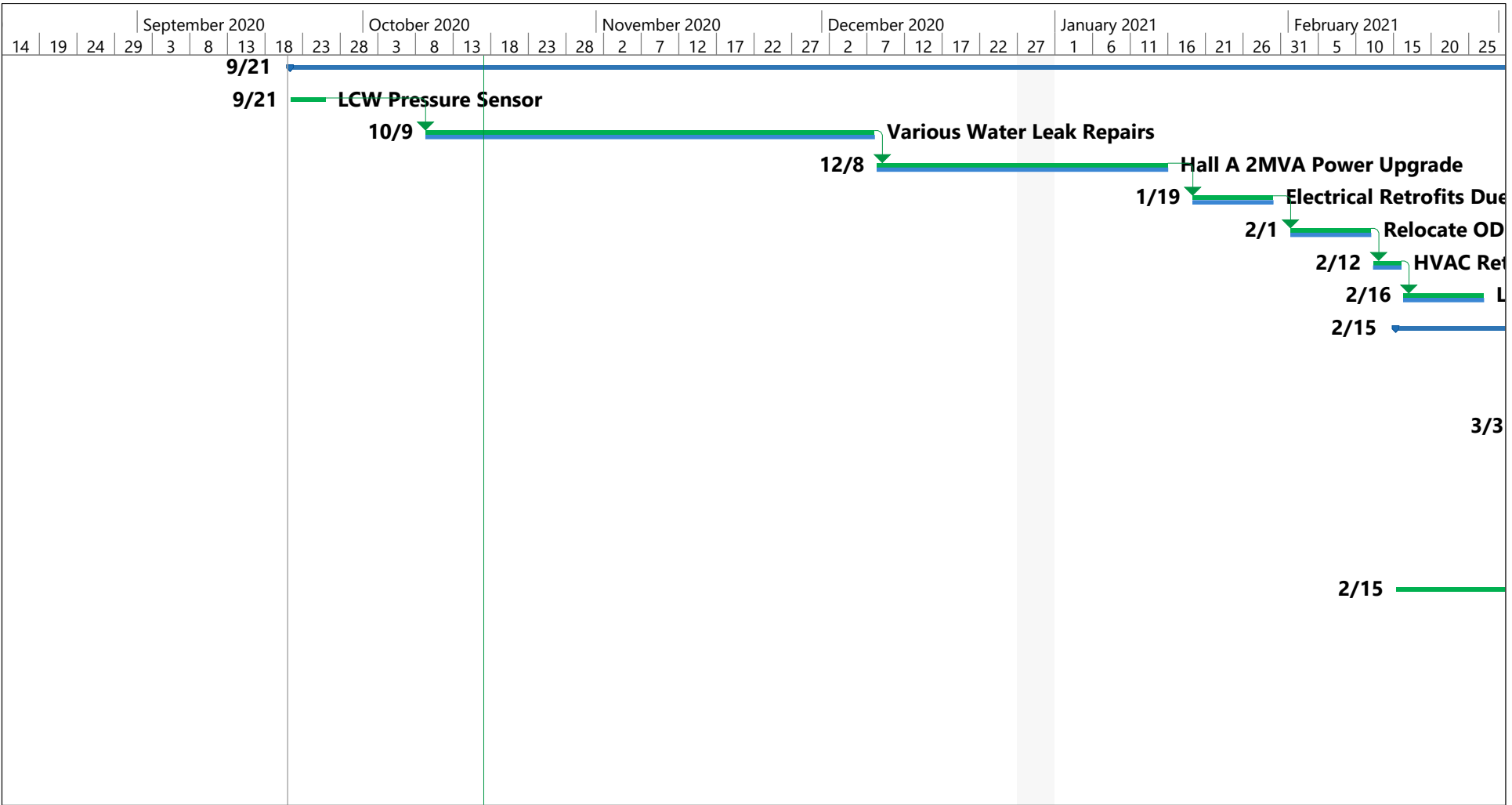
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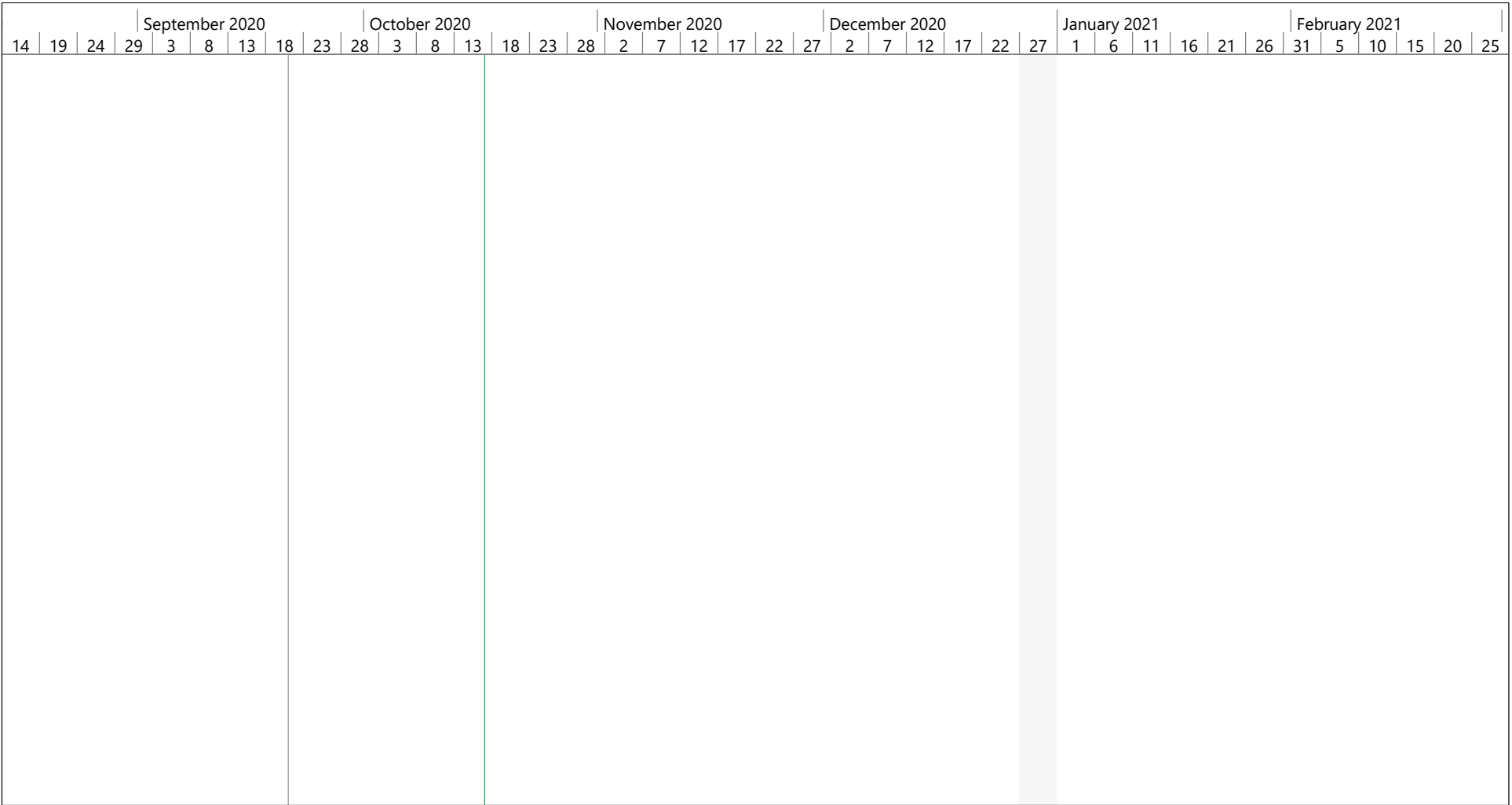
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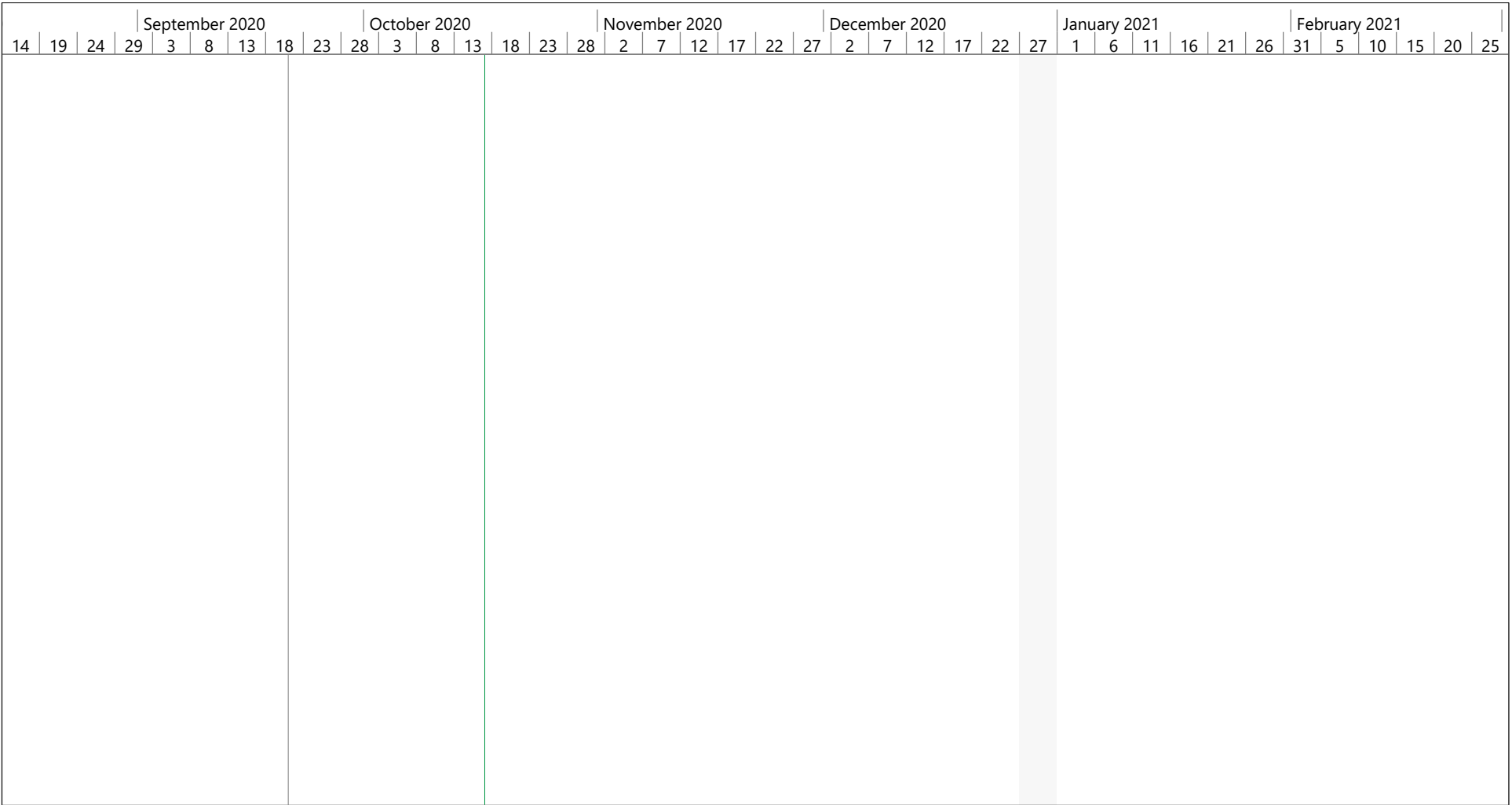
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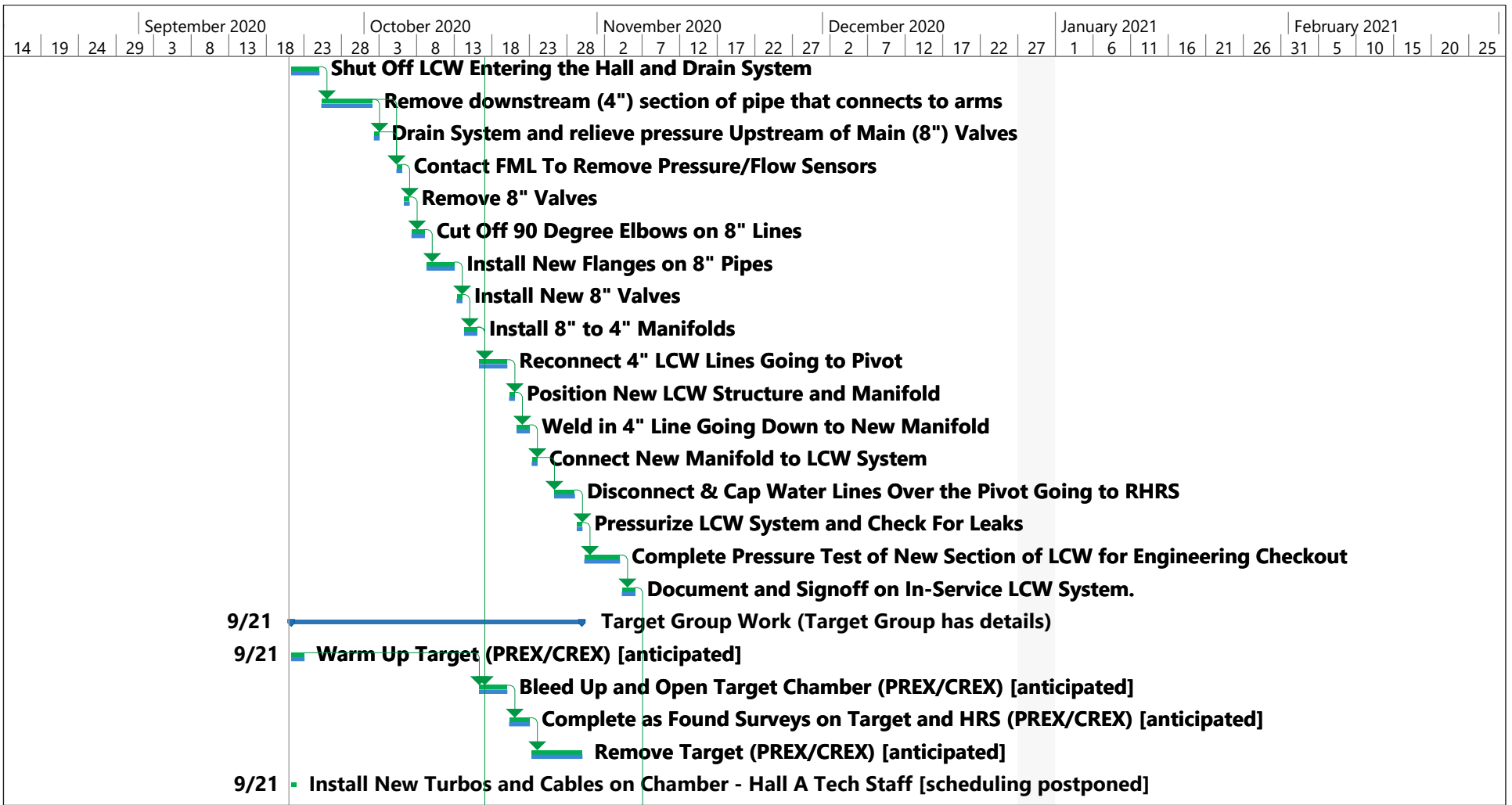
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- 9/21  **LCW Heat Exchanger [scheduling postponed]**
- 9/21  **Replace Obsolete XL100 Honeywell Controller [scheduling postponed]**
- 9/21  **Fire Safety System: Smoke Removal Fans Replacement [scheduling postponed]**
- 9/21  **Beam Dump Cooling Study [scheduling postponed]**
- 9/21  **Beam Dump Cooling Capacity Increase [scheduling postponed]**
- 9/21  **Nitrogen Vaporizer for Dehumidification System [scheduling postponed]**
- 9/21  **Fire Safety System: End Station Fire Detection and Suppression [scheduling postponed]**
- 9/21  **LCW Pressure Regulation (Hall B) [scheduling postponed]**
- 9/21  **LCW Upgrade (has separate detailed drawings & procedure)**

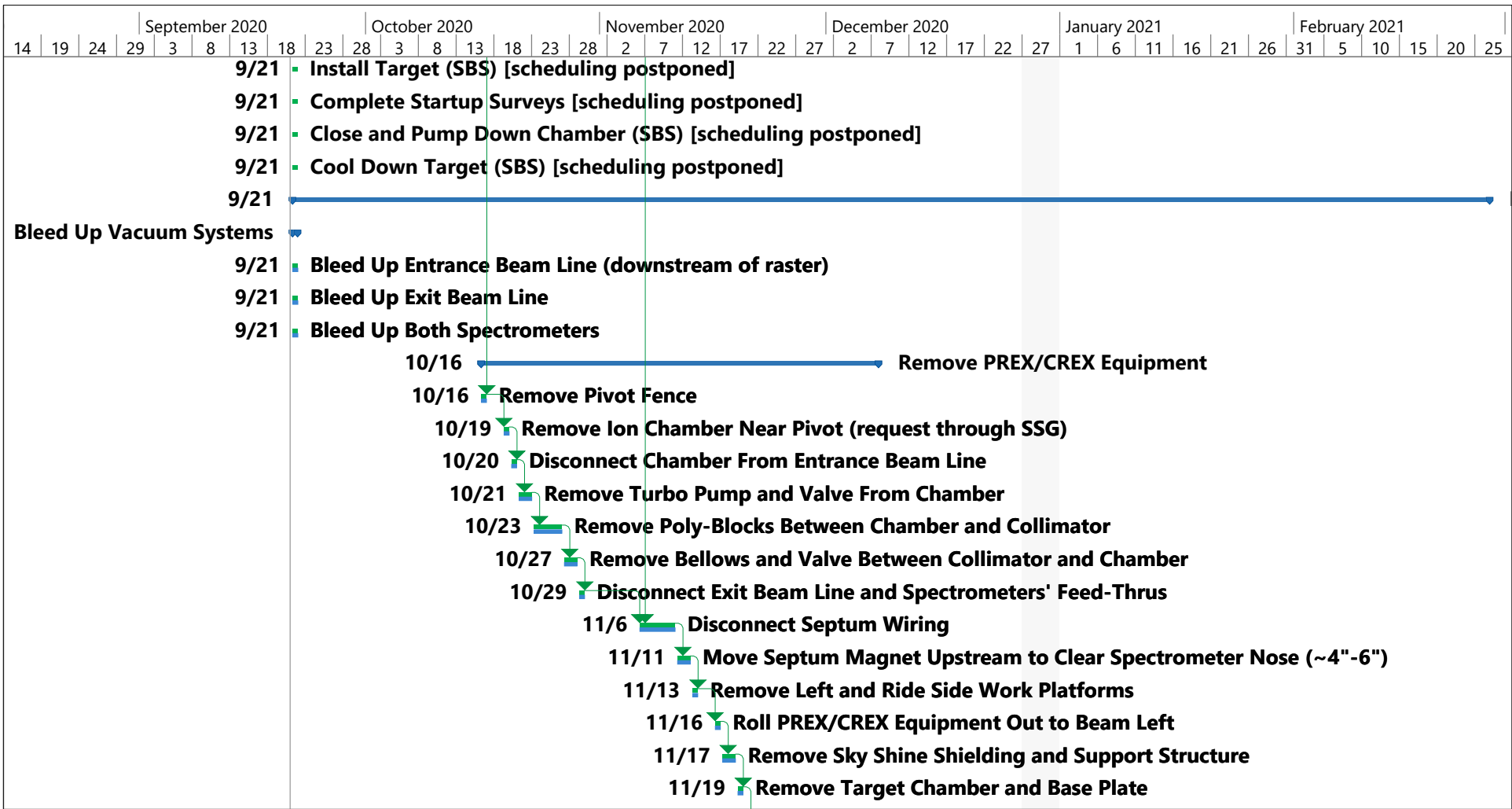
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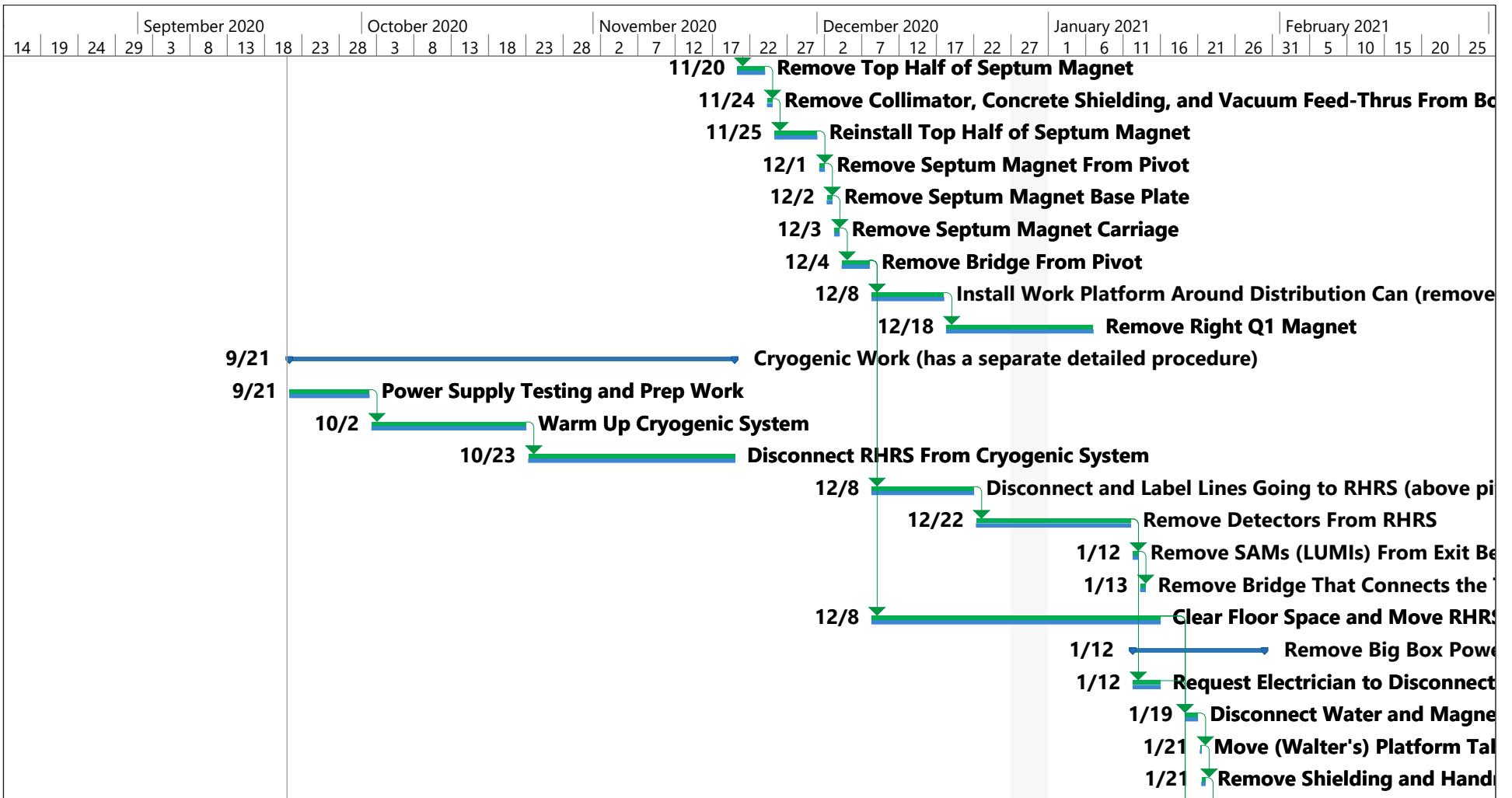
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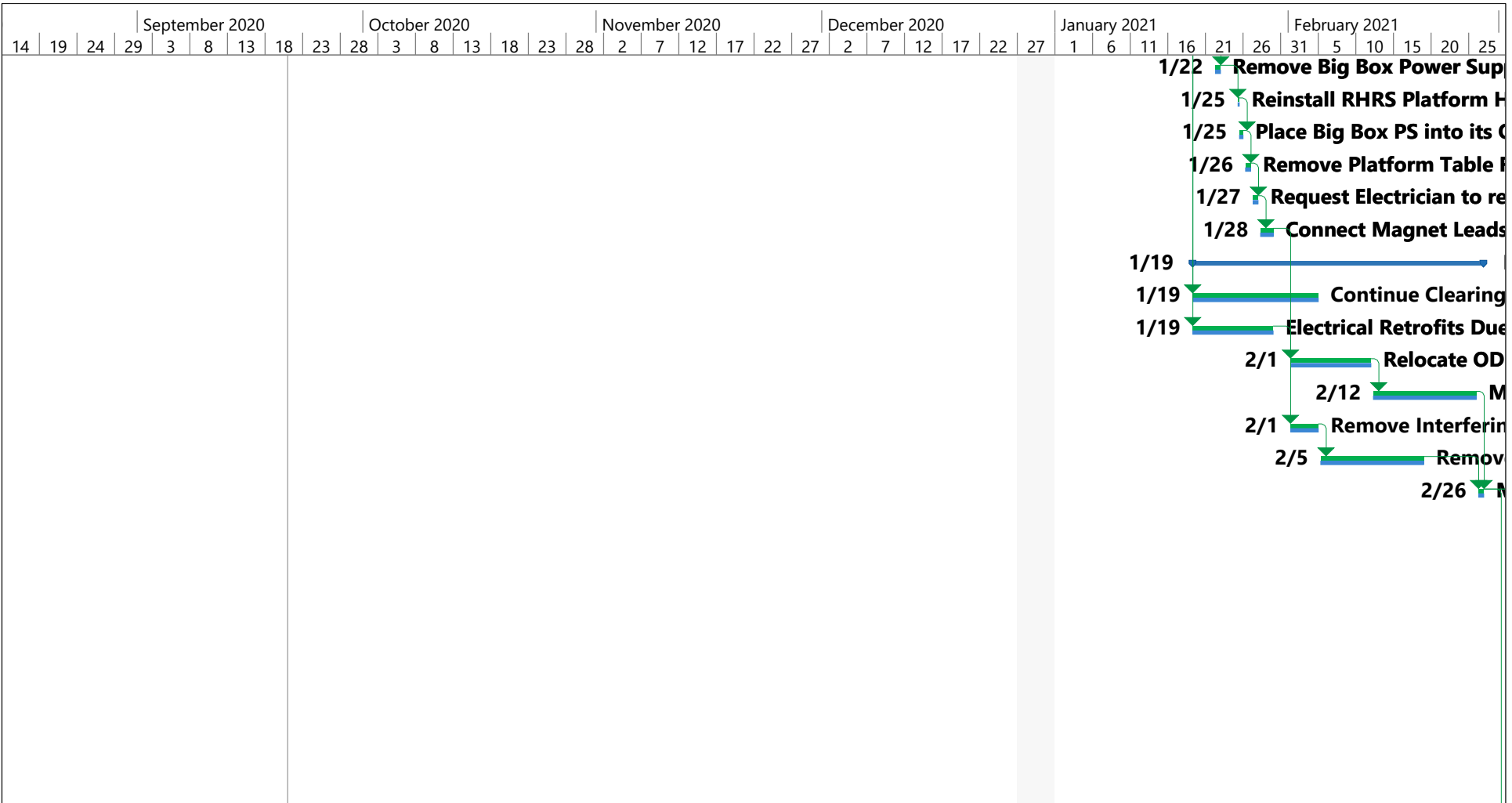
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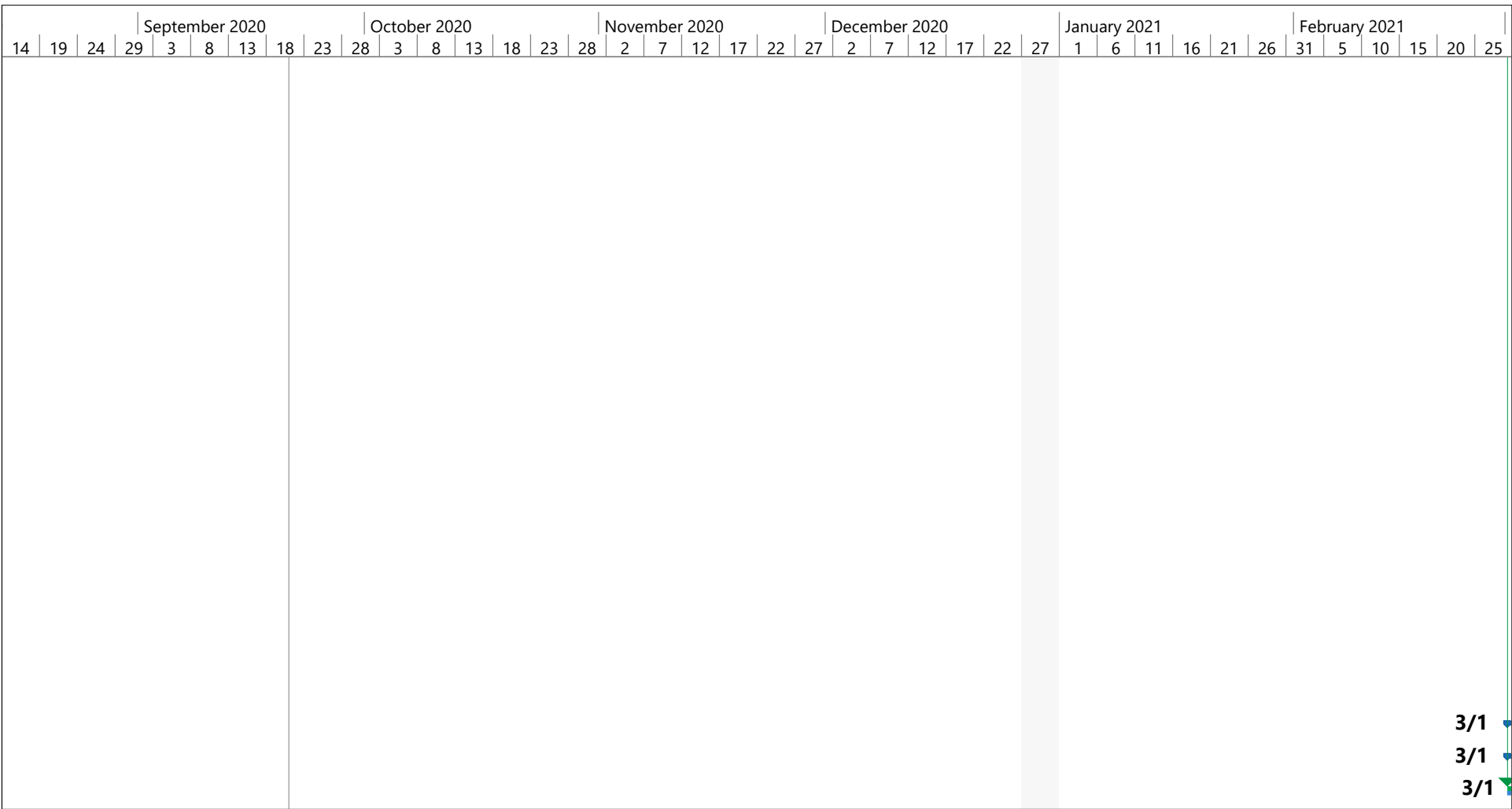
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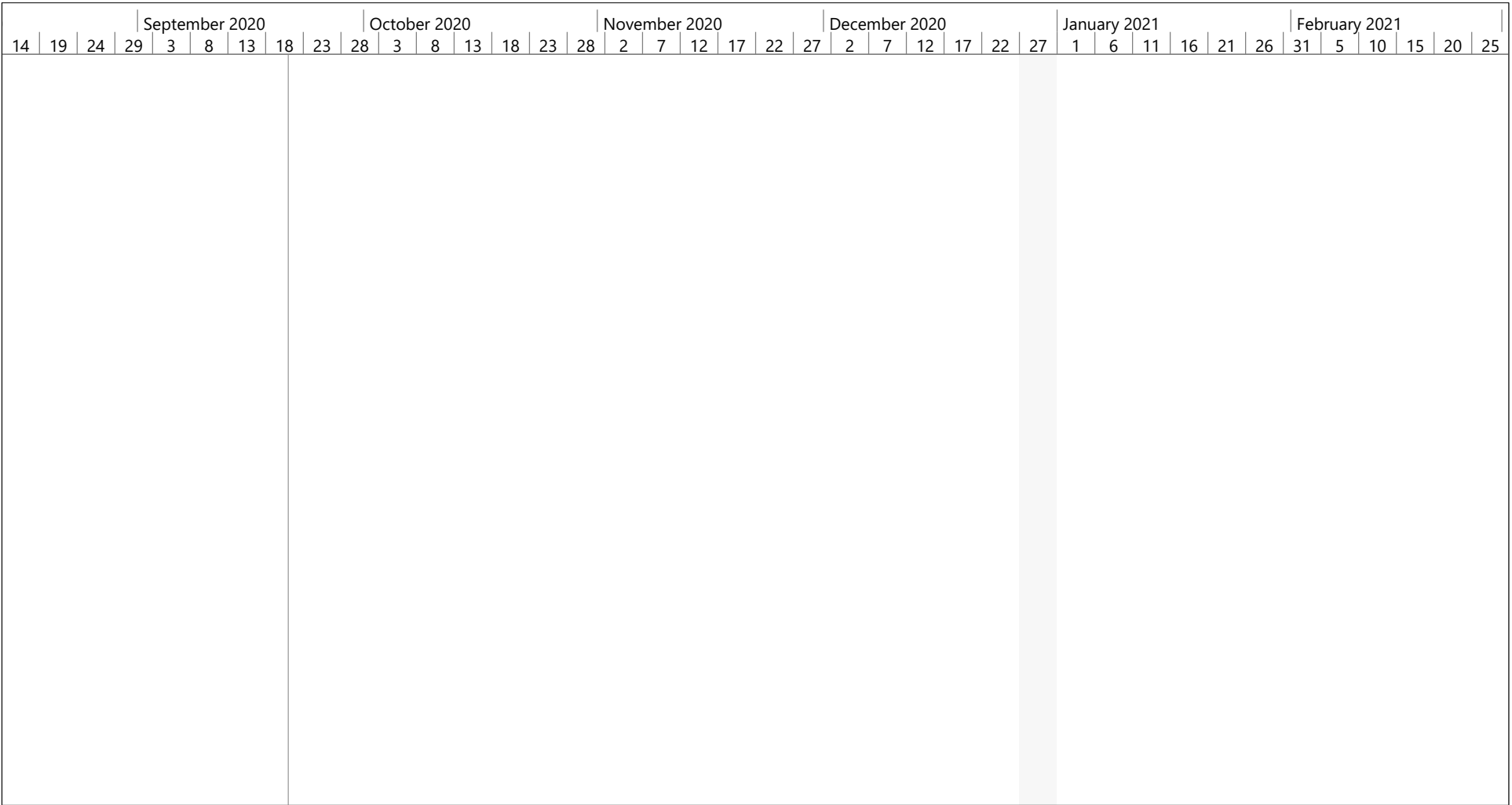
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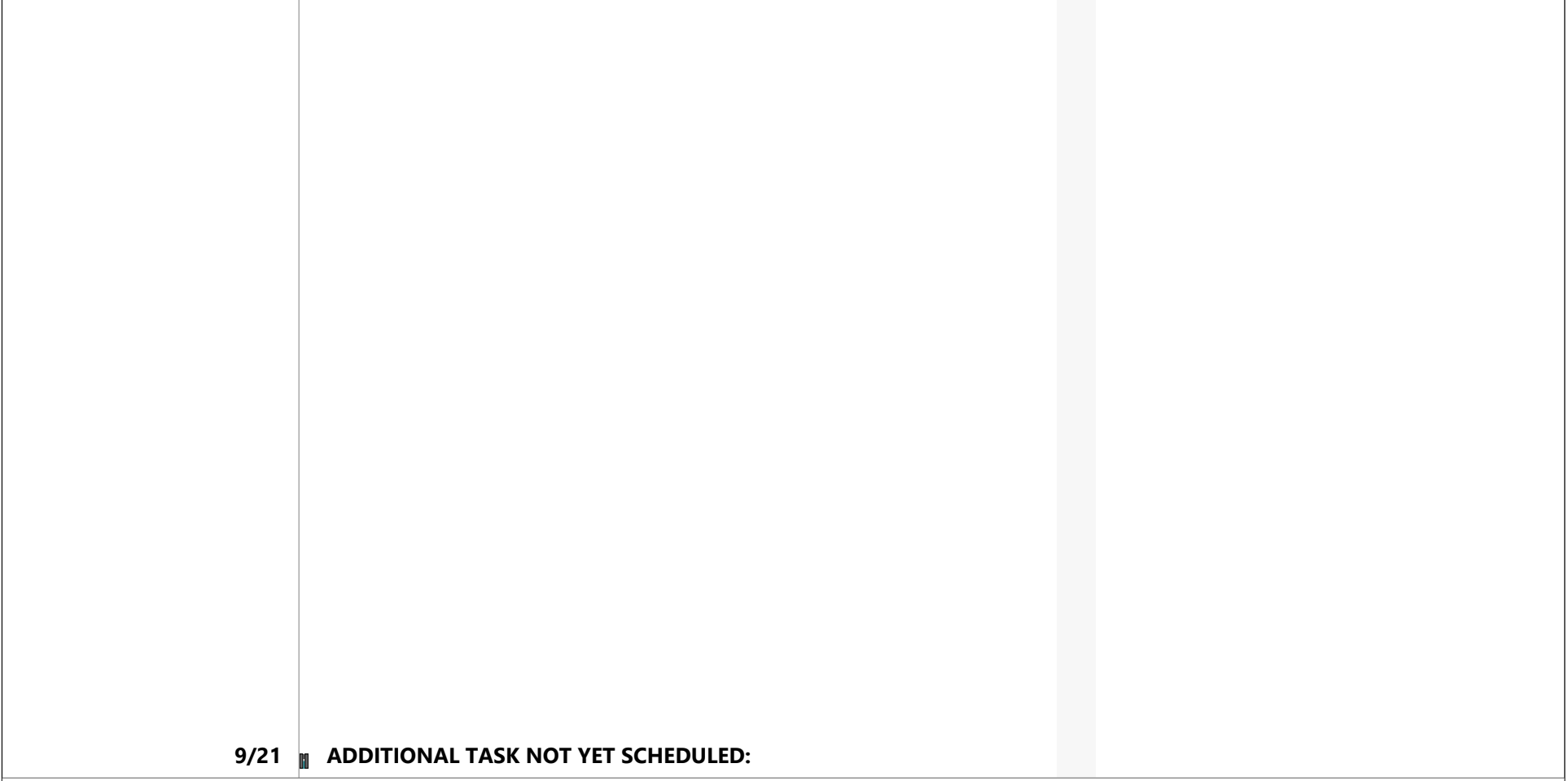
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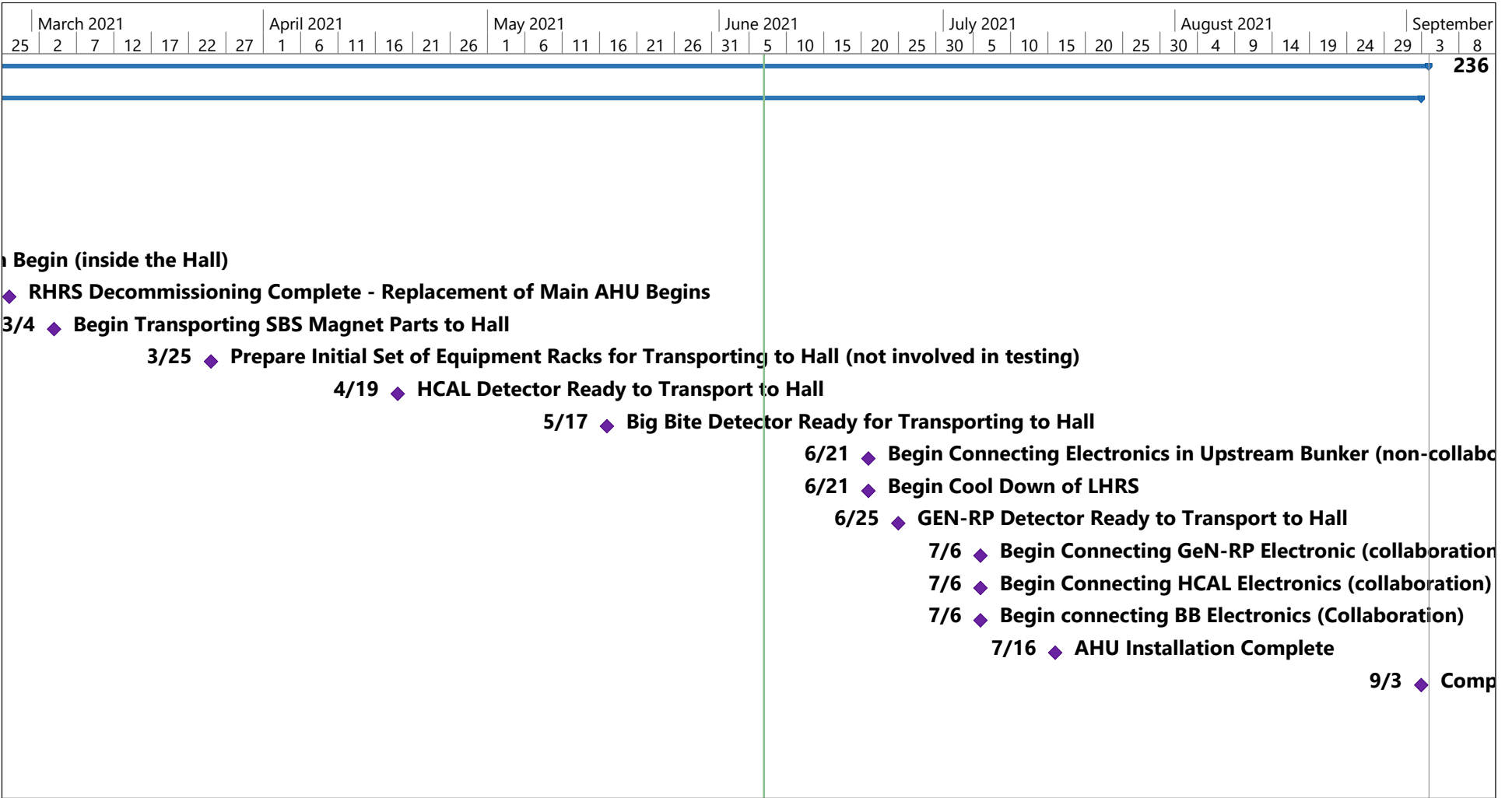
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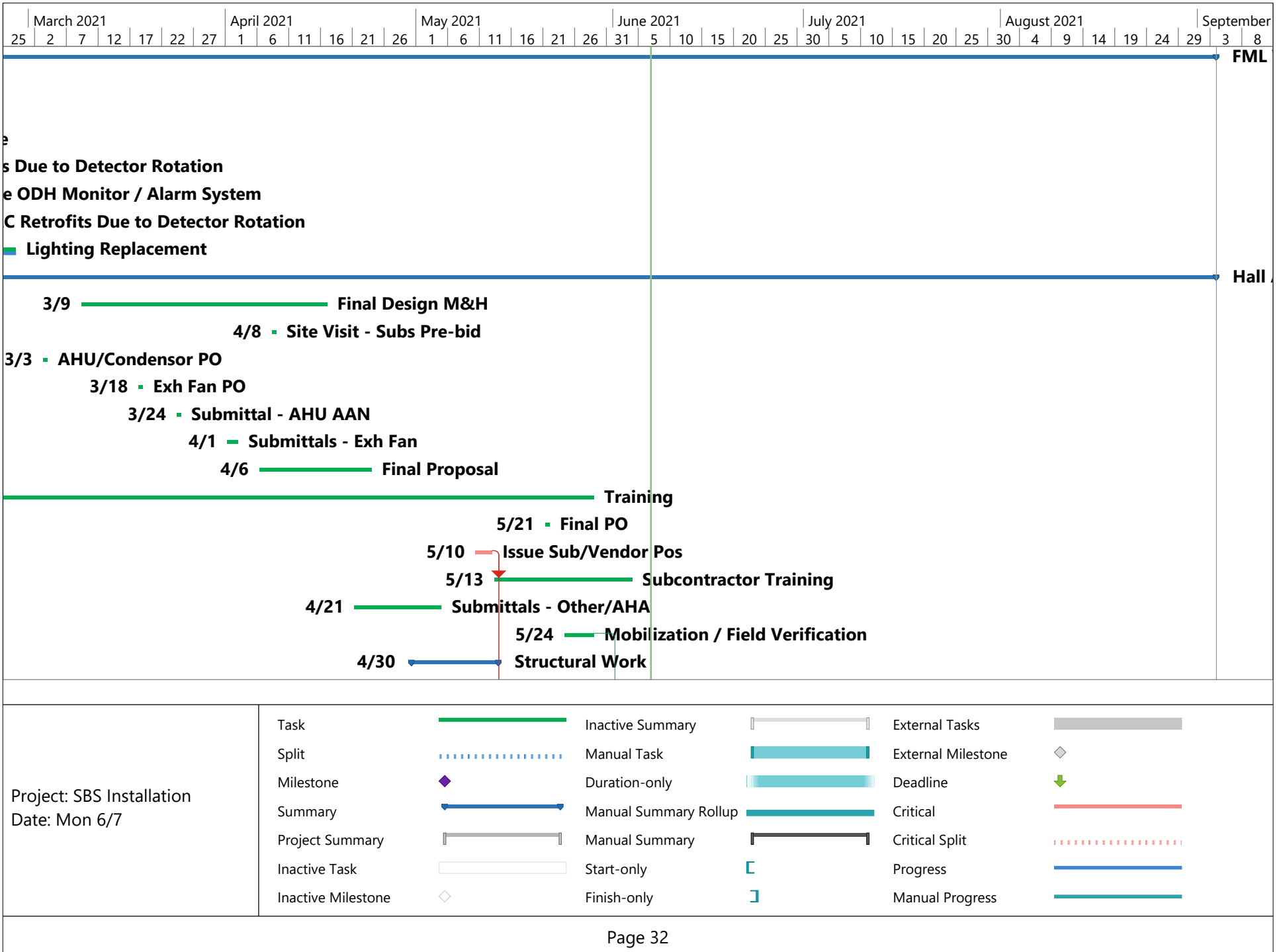
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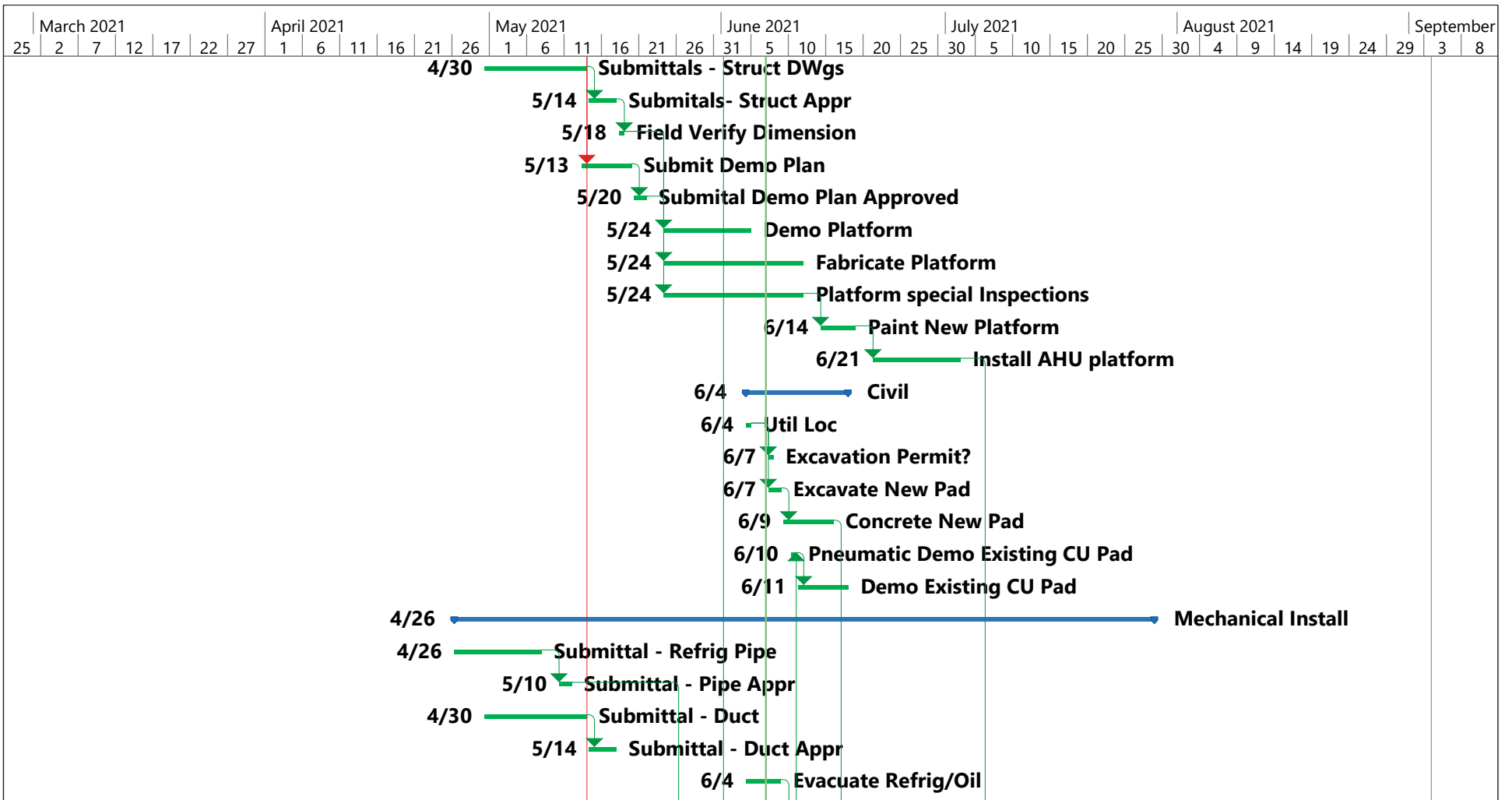
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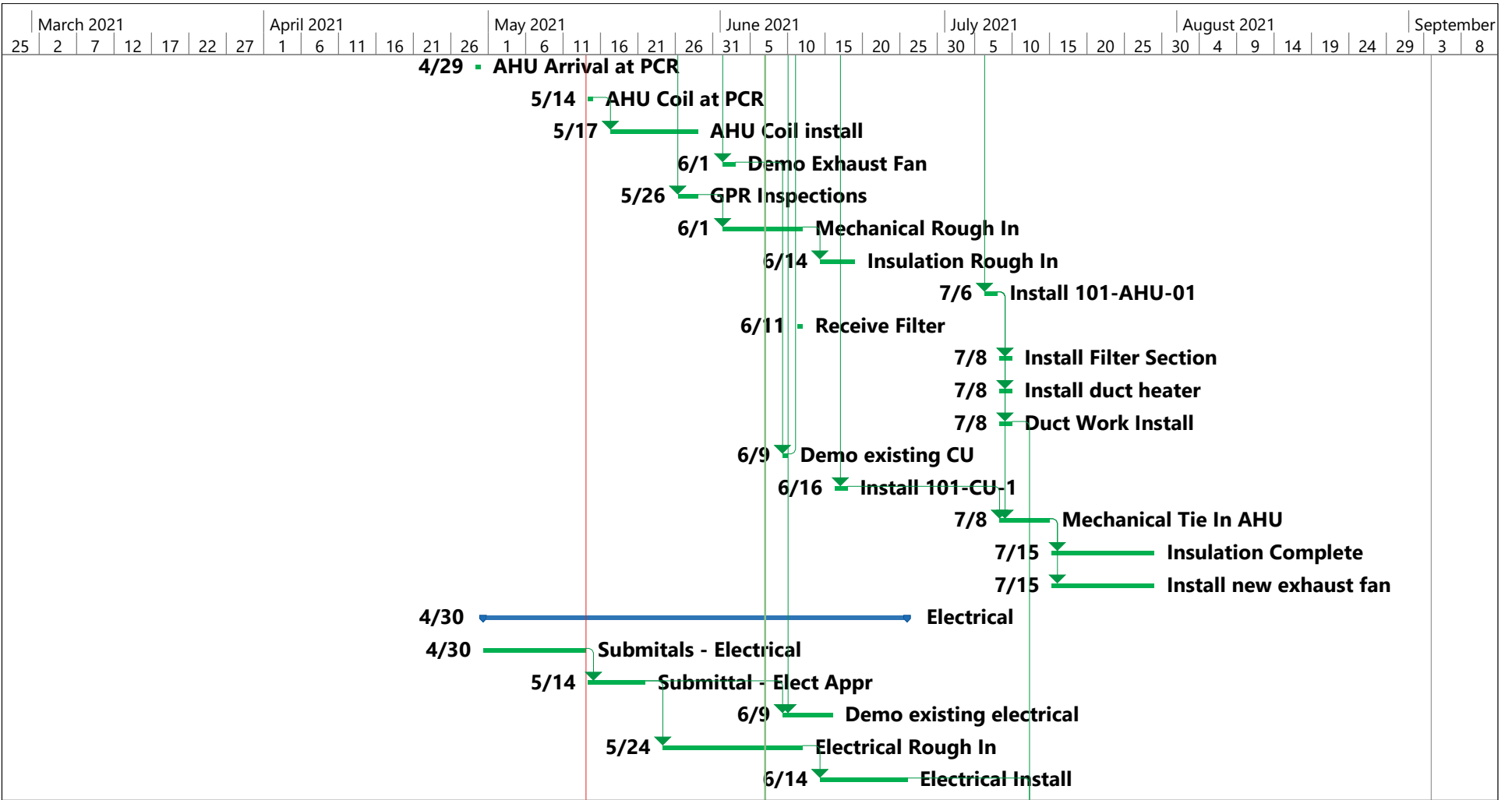
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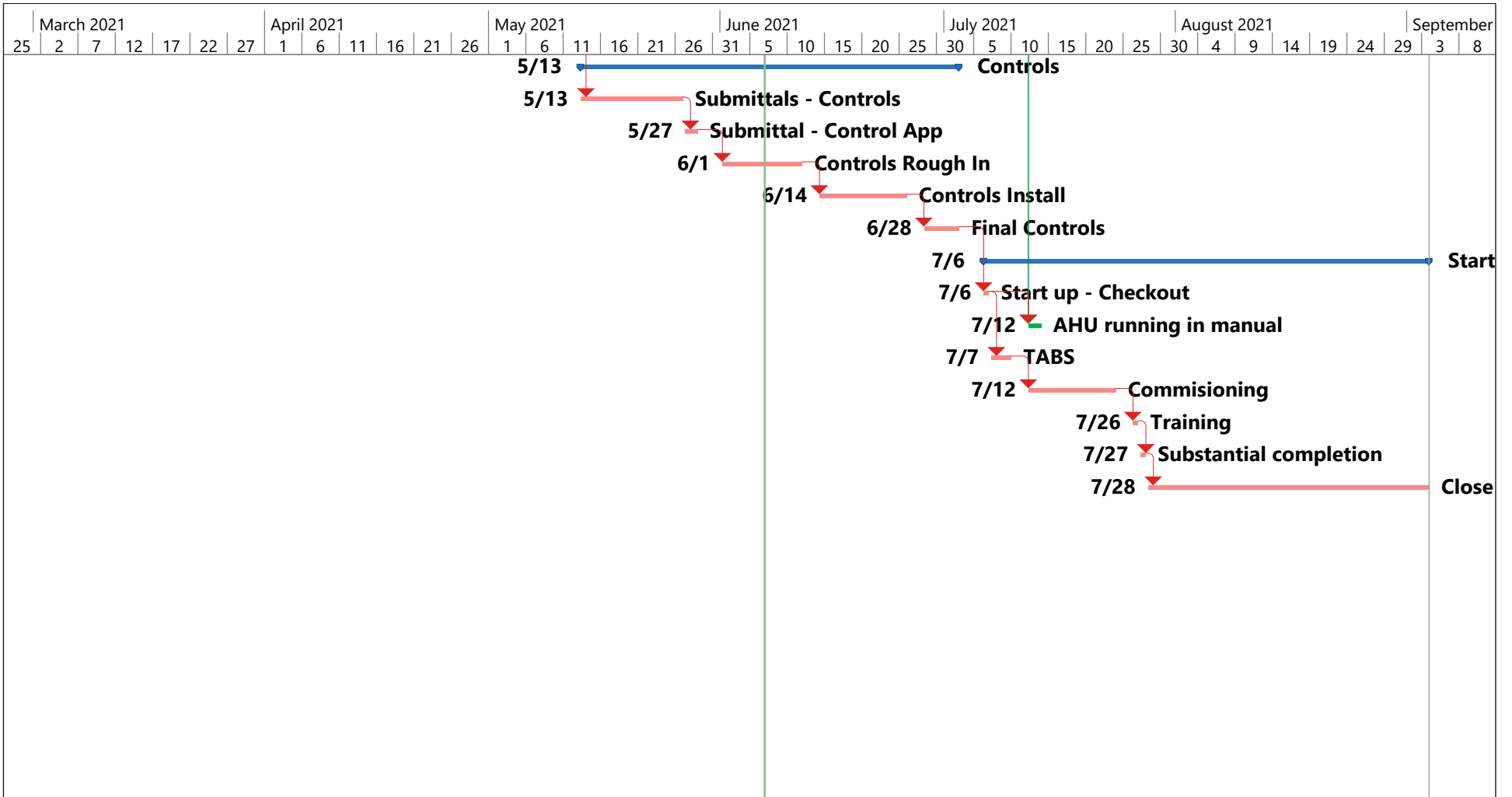
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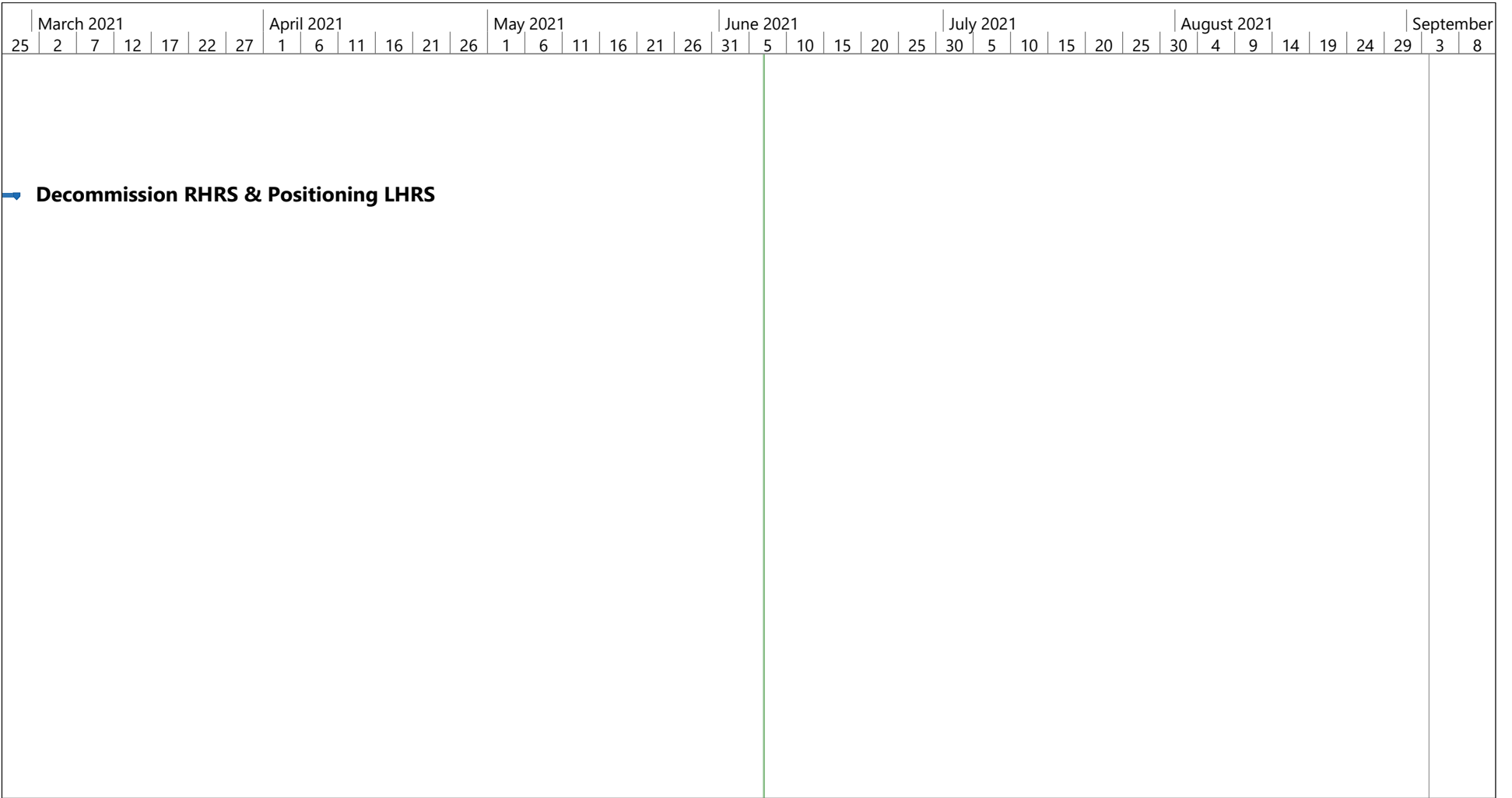
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Exit Beam Line and Cap Opening

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RHRS to ~45 Degrees

Power Supply From RHRS

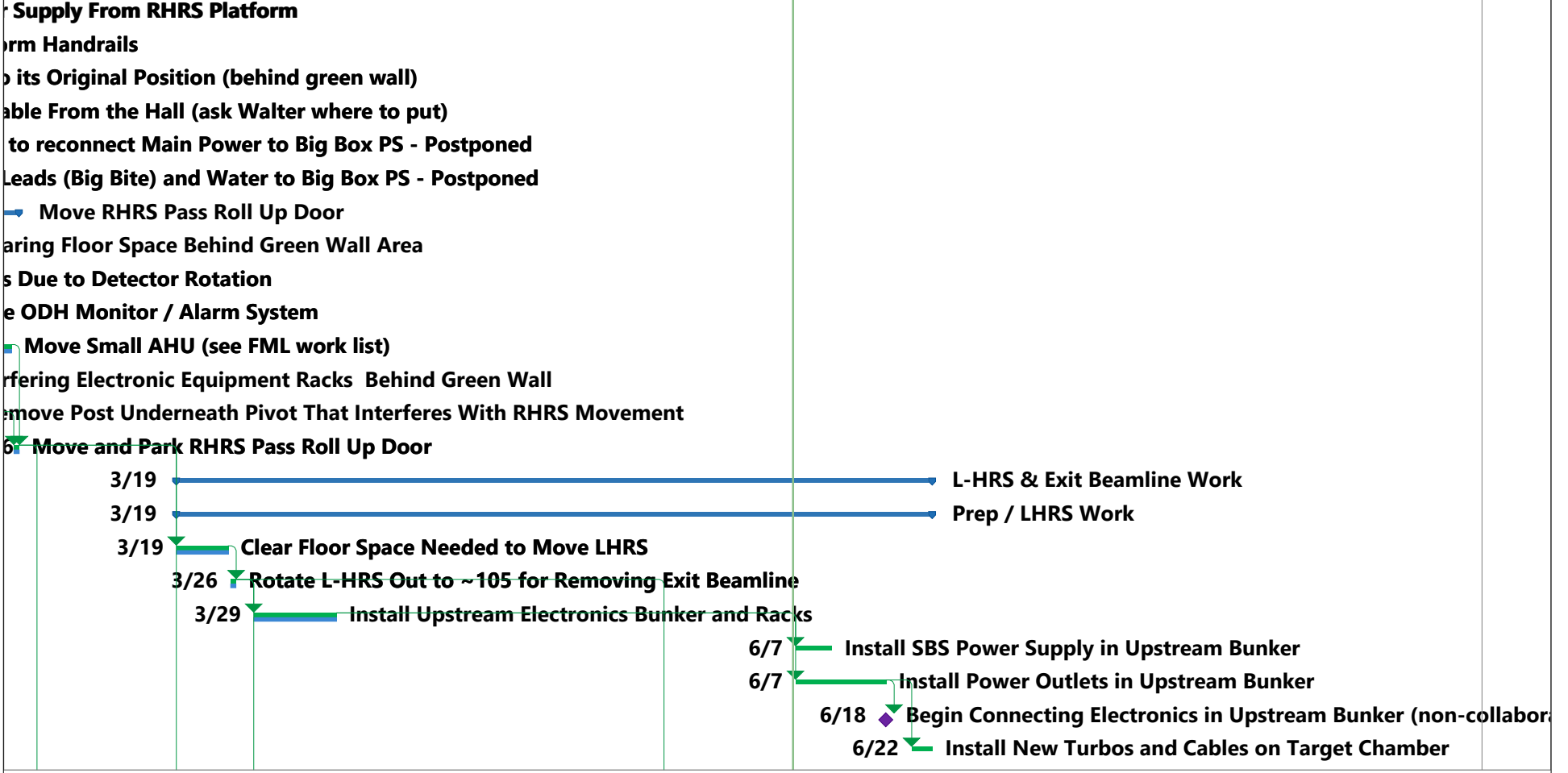
Connect Main Power to Big Box PS

Magnet's Leads

Move Table into Position on Inside of RHRS

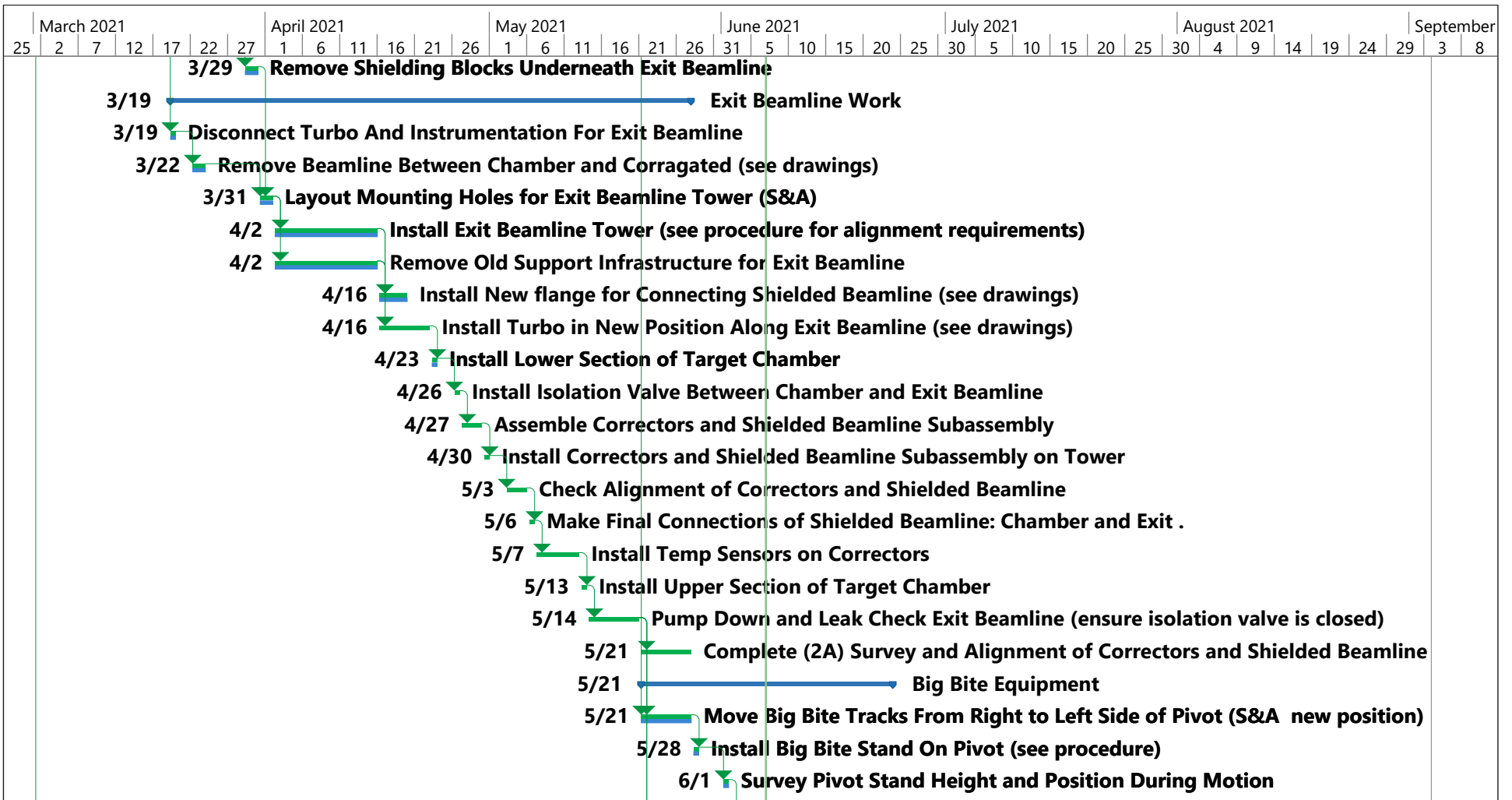
Install Handrails From RHRS Platform

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
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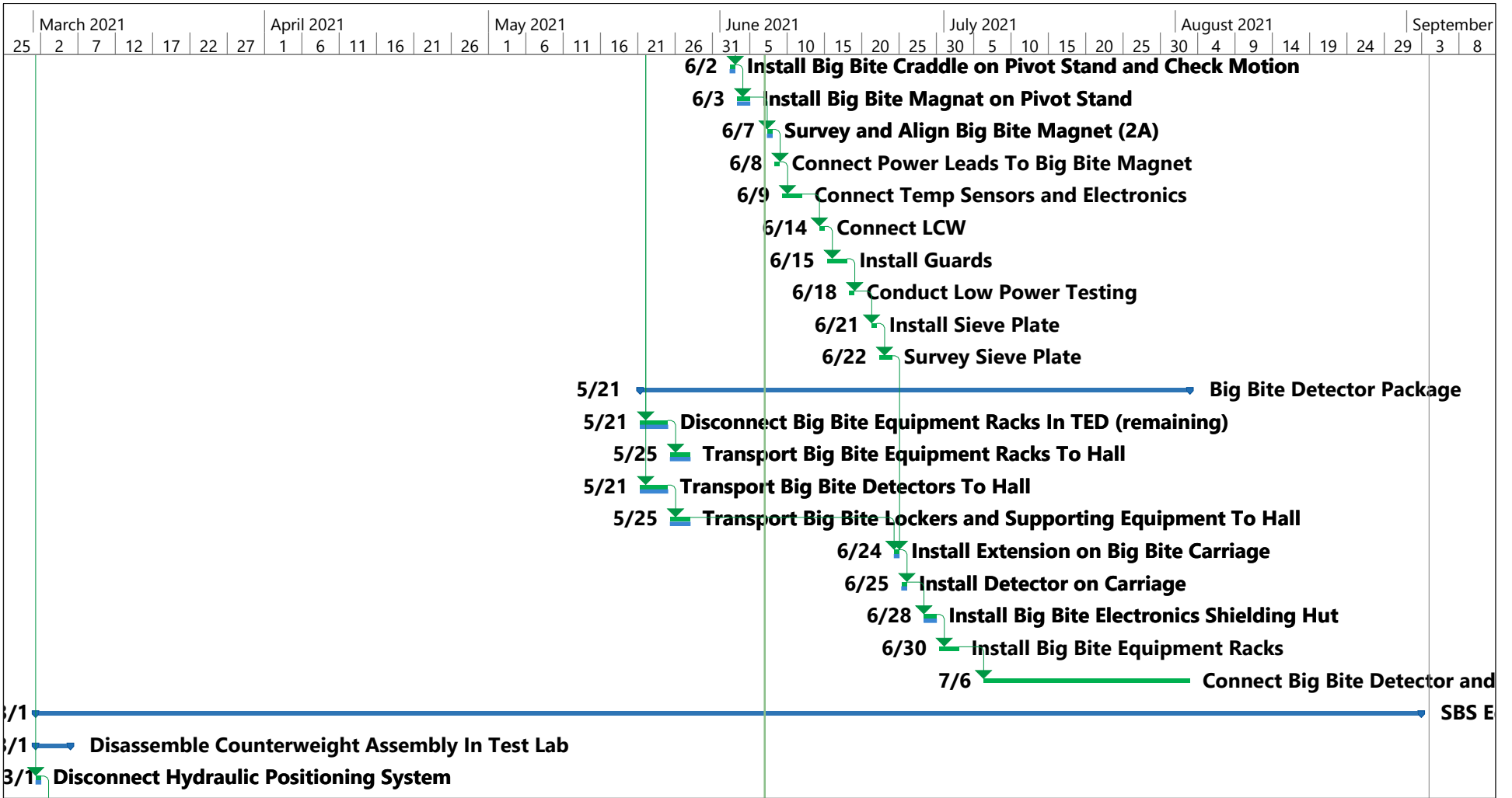
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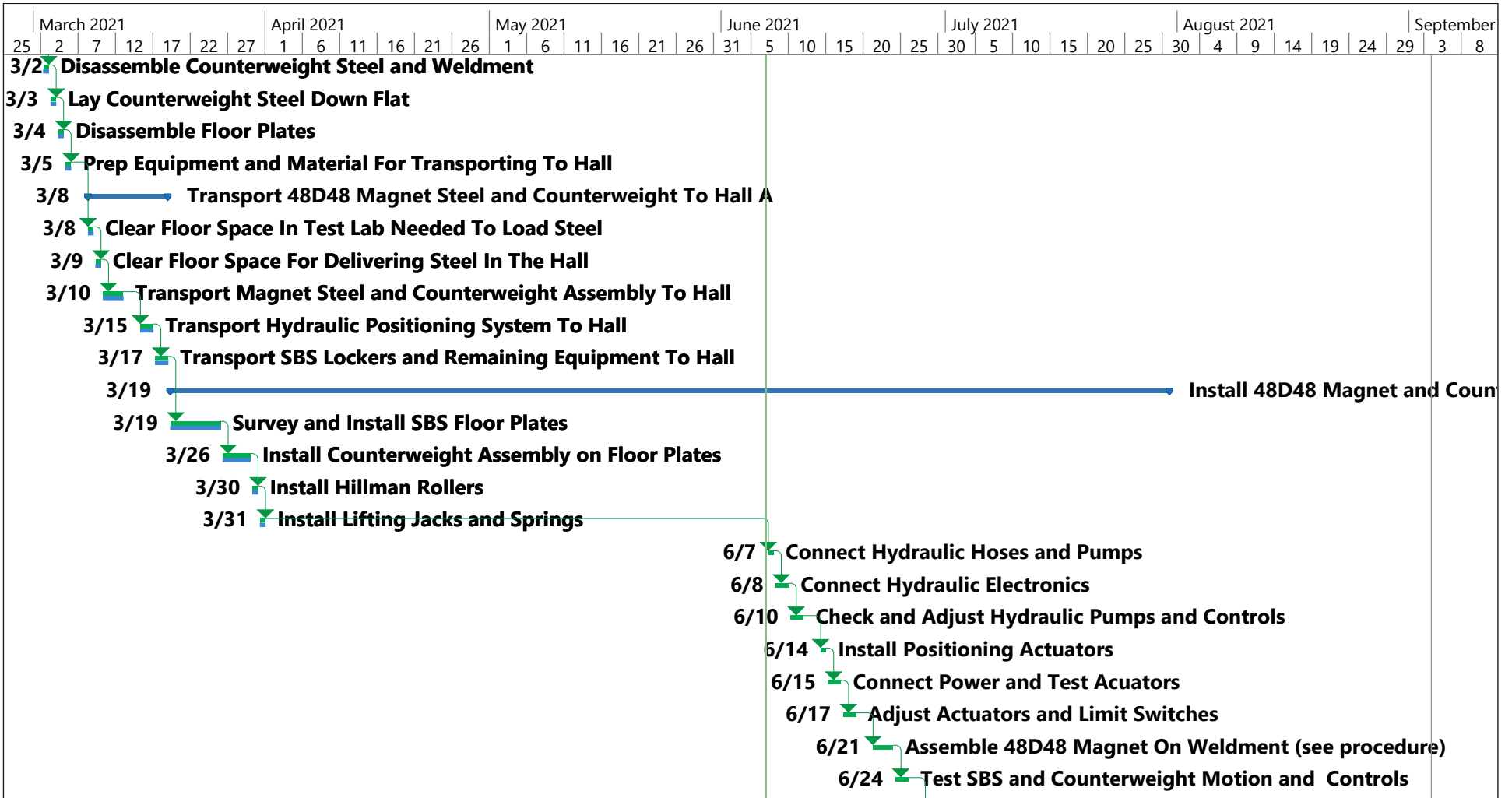


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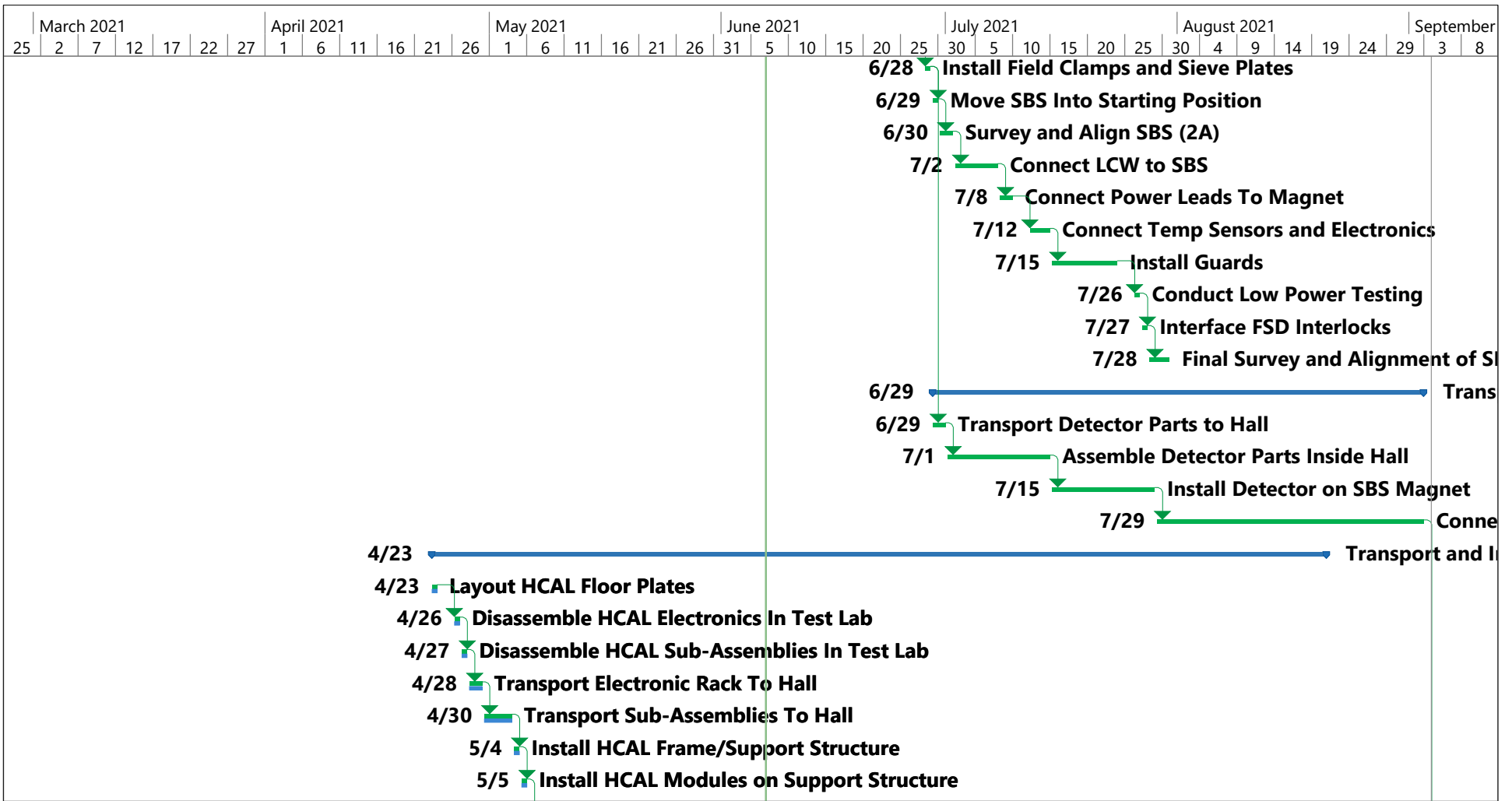


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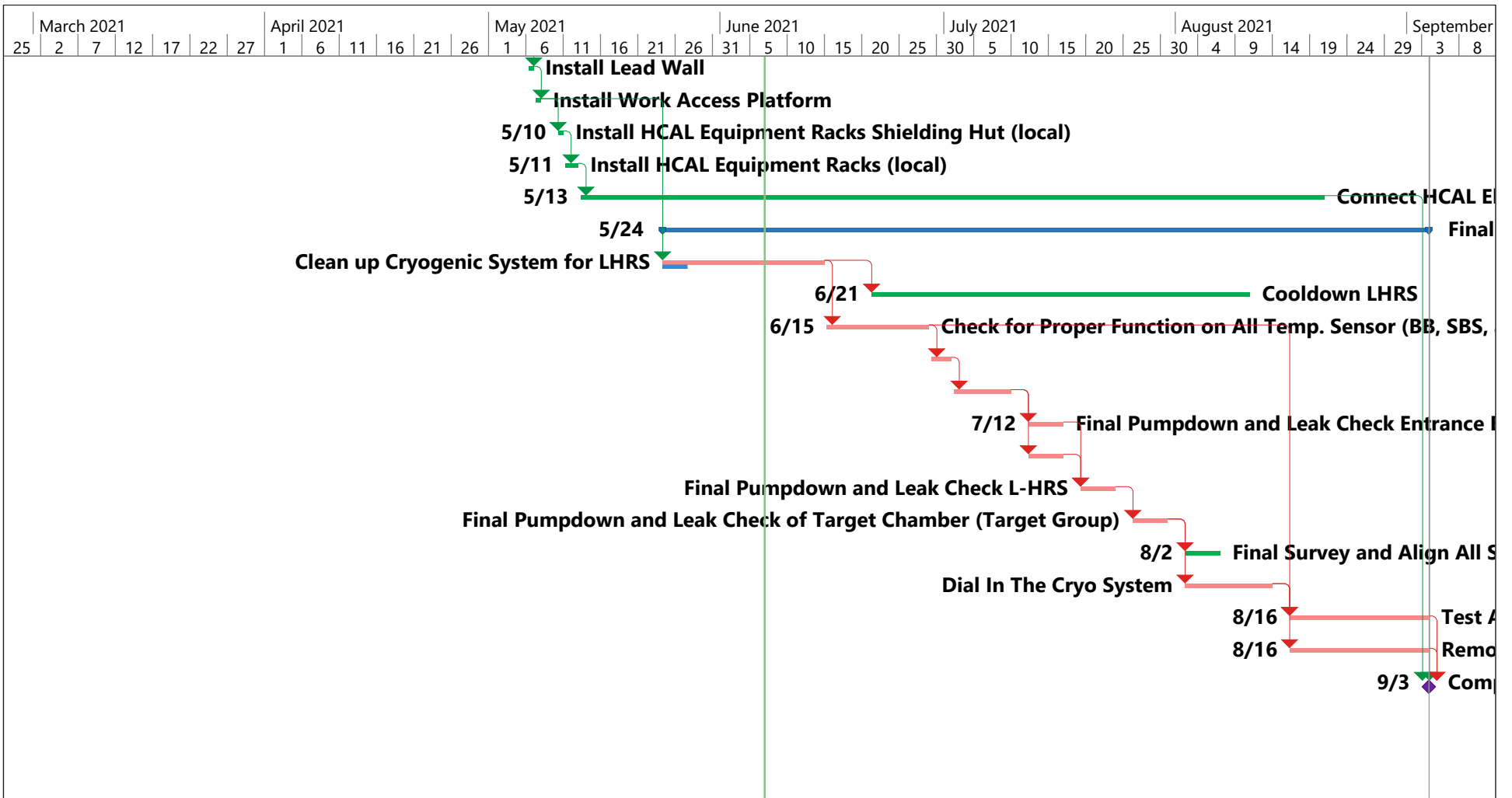
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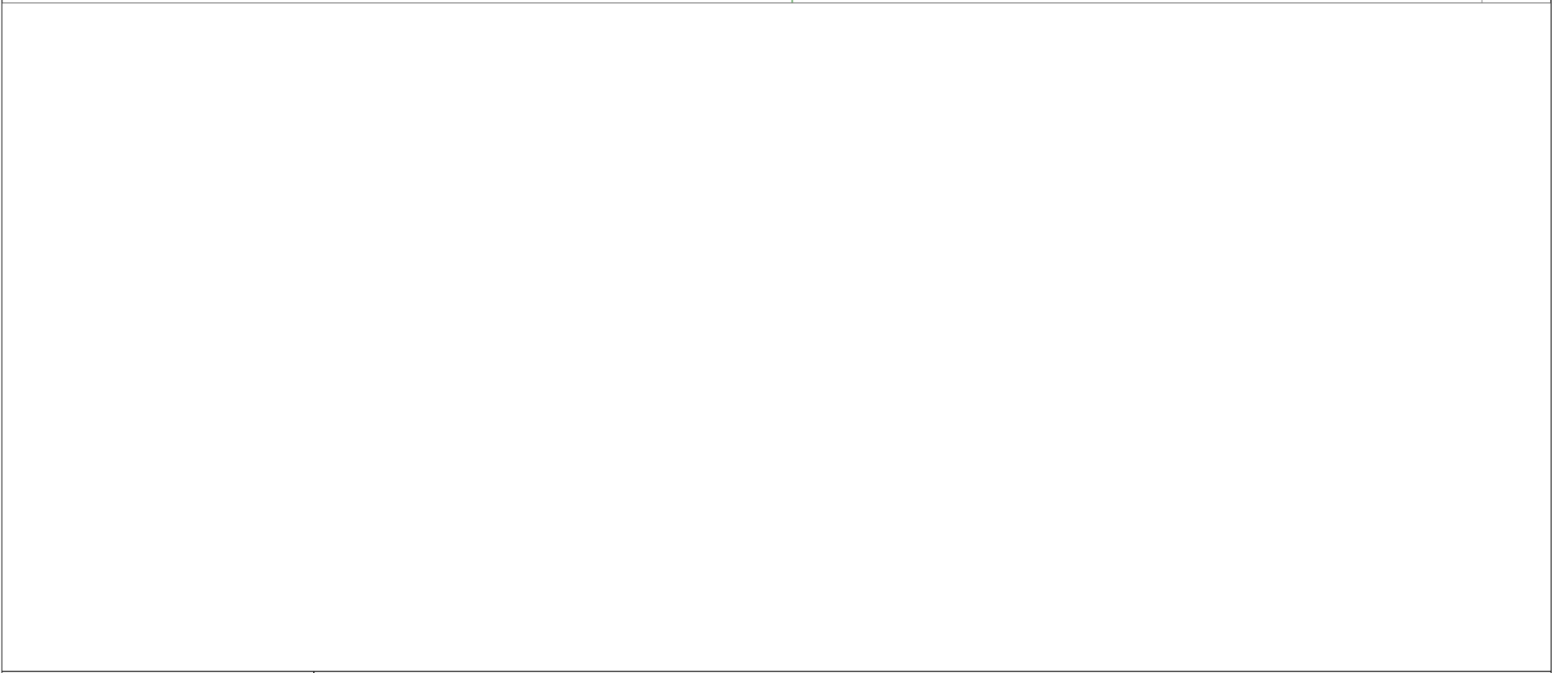
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Complete Pre-Beam Checklist - Installation Complete

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
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FML Work List (maintained by FML)

Hall A AHU Replacement (integrated using a schedule provided by Celia on 5/20/21)

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Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Critical	
Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	



Start up - Acceptance

Close out

Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Critical	
Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	



Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
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Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
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Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
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Project: SBS Installation
Date: Mon 6/7

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Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	



aboration/detectors)

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Critical	
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	Inactive Task		Start-only		Progress	
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Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
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Inactive Milestone		Finish-only		Manual Progress	



r and Testing
SBS Equipment

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Critical	
	Project Summary		Manual Summary		Critical Split	
	Inactive Task		Start-only		Progress	
	Inactive Milestone		Finish-only		Manual Progress	



Counterweight Assembly






















Project: SBS Installation
Date: Mon 6/7

Task		Inactive Summary		External Tasks	
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Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	

of SBS (2B)
Transport and Install GeN-RP Detector

et
Connect GeN-RP Electronics and Testing
and Install HCAL

Project: SBS Installation
 Date: Mon 6/7

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
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Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	

**Final Electronics and Testing
Final Preparations**

SBS, and Correctors)

once Beamline

All SBS Equipment (2B)

- Test All Magnets and Power Supplies To Full Current**
- Remove Excessive Equipment From Hall**
- Complete Pre-Beam Checklist - Installation Complete**

Project: SBS Installation Date: Mon 6/7	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Critical	
	Project Summary		Manual Summary		Critical Split	
	Inactive Task		Start-only		Progress	
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Project: SBS Installation
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