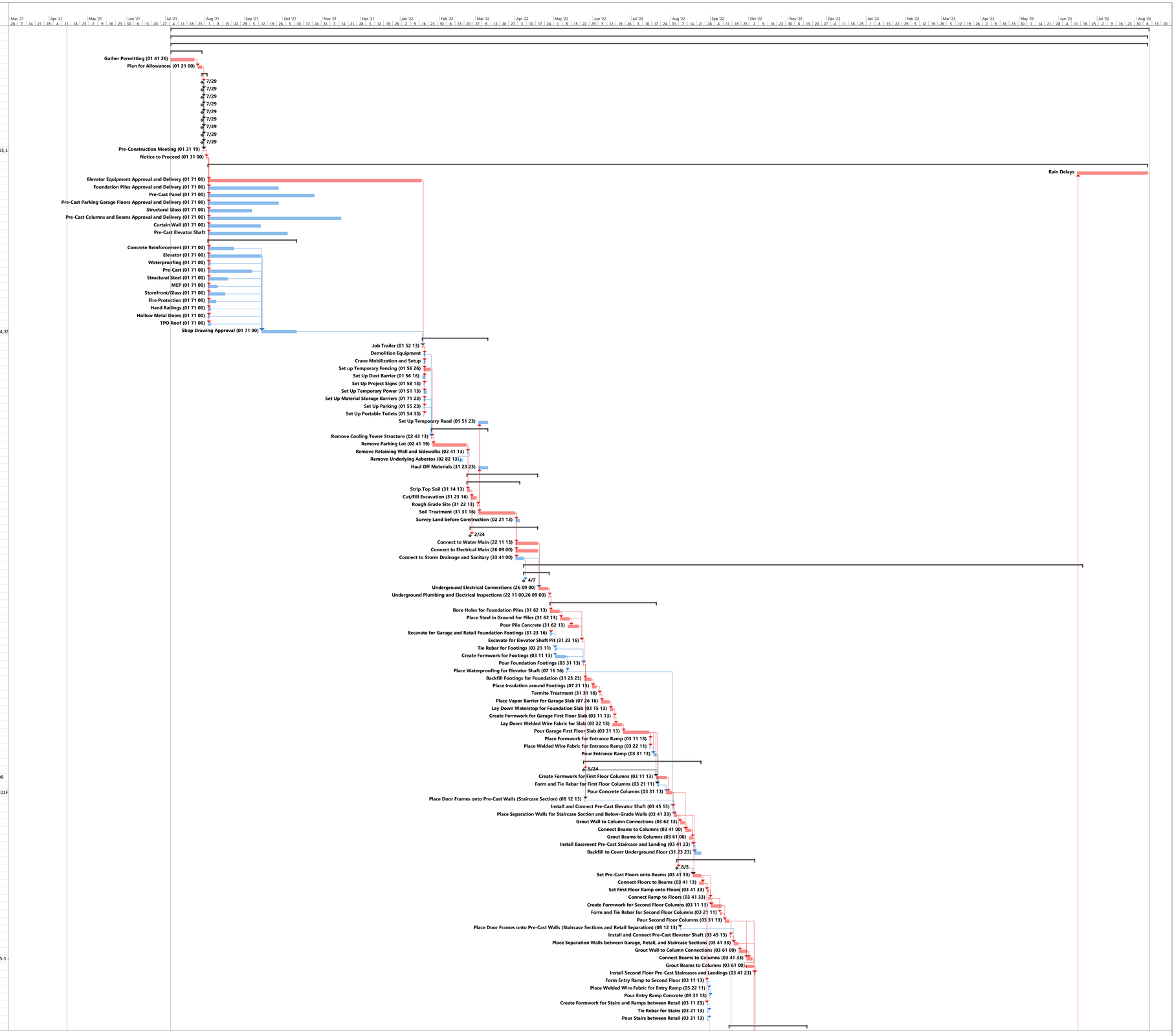
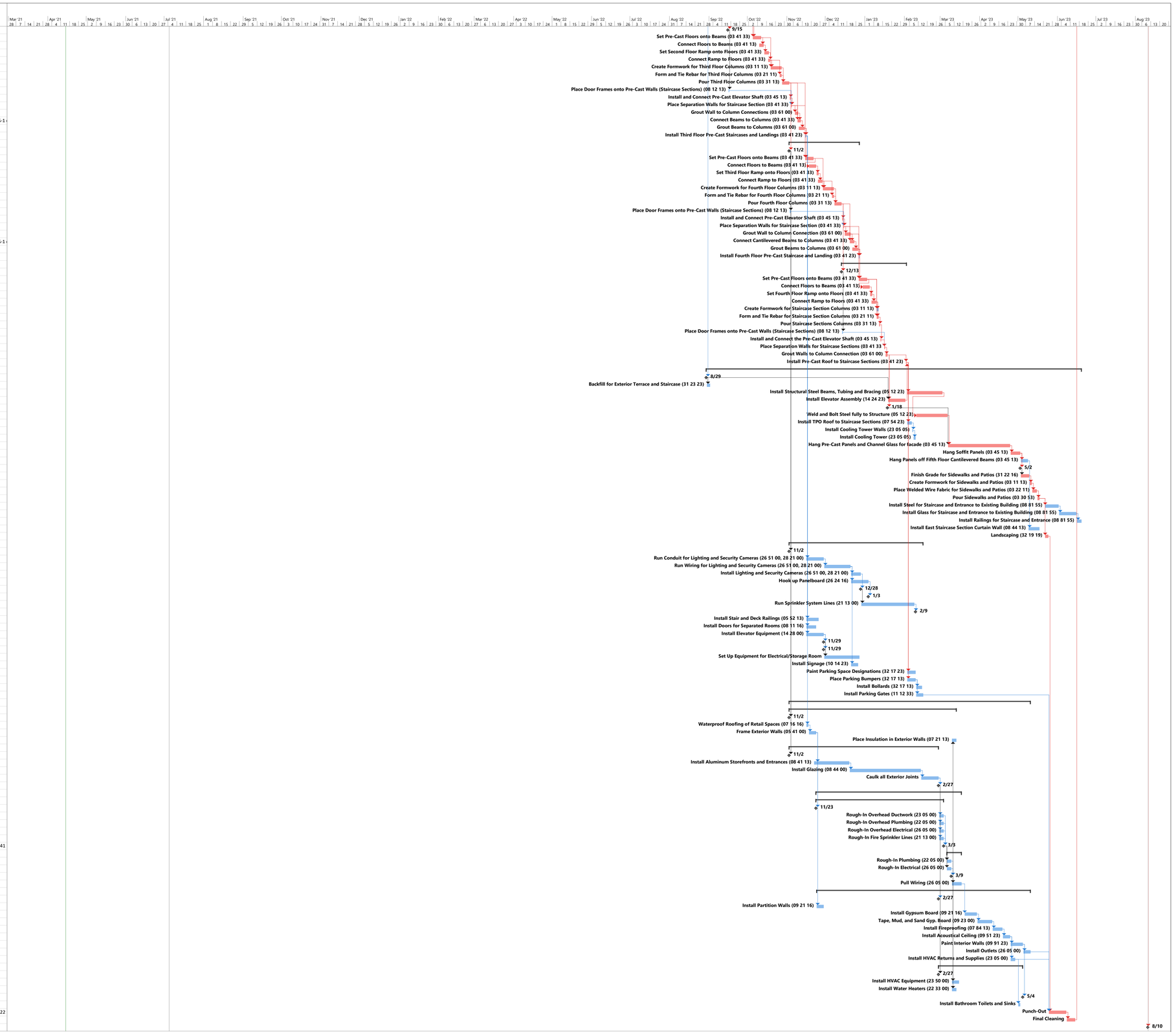
ID	WBS	Task Name	Duration	Start	Finish	Predecessors
1	**1**	**Cadence Parking Garage**	**549 days**	**Mon Jul 5, '21**	**Thu Aug 10, '23**	
2	**1.1**	**Procurement and General Requirements**	**548 days**	**Mon Jul 5, '21**	**Wed Aug 9, '23**	
3	**1.1.1**	**Pre-Construction**	**548 days**	**Mon Jul 5, '21**	**Wed Aug 9, '23**	
4	**1.1.1.1**	**Bidding Process**	**19 days**	**Mon Jul 5, '21**	**Thu Jul 29, '21**	
5	1.1.1.1.1	Gather Permitting (01 41 26)	15 days	Mon Jul 5, '21	Fri Jul 23, '21	
6	1.1.1.1.2	Plan for Allowances (01 21 00)	4 days	Mon Jul 26, '21	Thu Jul 29, '21	5
7	**1.1.1.2**	**Necessary Documents and**	**2 days**	**Thu Jul 29, '21**	**Mon Aug 2, '21**	
8	1.1.1.2.1	Final Construction Contract and Agreement (01 31 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	6
9	1.1.1.2.2	Project Management and Coordination Documents (01 31 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
10	1.1.1.2.3	Site Safety Plan (01 31 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
11	1.1.1.2.4	Construction Progress Documenting Guidelines (01 32 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
12	1.1.1.2.5	Quality Control Documents (01 45 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
13	1.1.1.2.6	Site Logistics Plan (01 55,56,66 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
14	1.1.1.2.7	Material Disposal Guidelines (01 74 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
15	1.1.1.2.8	Final Site Survey (01 78 29)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
16	1.1.1.2.9	Geotechnical Report (02 32 00)	0 days	Thu Jul 29, '21	Thu Jul 29, '21	8
17	1.1.1.2.1	Pre-Construction Meeting (01 31 19)	1 day	Fri Jul 30, '21	Fri Jul 30, '21	8,9,10,11,12,13,1
18	1.1.1.2.1	Notice to Proceed (01 31 00)	1 day	Mon Aug 2, '21	Mon Aug 2, '21	17
19	**1.1.1.1**	**Plan for Lead Times**	**527 days**	**Tue Aug 3, '21**	**Wed Aug 9, '23**	
20	1.1.1.3.1	Rain Delays	40 days	Thu Jun 15, '23	Wed Aug 9, '23	265
21	1.1.1.3.1	Elevator Equipment Approval and Delivery (01 71 00)	120 days	Tue Aug 3, '21	Mon Jan 17, '22	18
22	1.1.1.3.3	Foundation Piles Approval and Delivery (01 71 00)	40 days	Tue Aug 3, '21	Mon Sep 27, '21	18
23	1.1.1.3.4	Pre-Cast Panel (01 71 00)	60 days	Tue Aug 3, '21	Mon Oct 25, '21	18
24	1.1.1.3.5	Pre-Cast Parking Garage Floors Approval and Delivery (01 71 00)	40 days	Tue Aug 3, '21	Mon Sep 27, '21	18
25	1.1.1.3.6	Structural Glass (01 71 00)	25 days	Tue Aug 3, '21	Mon Sep 6, '21	18
26	1.1.1.3.7	Pre-Cast Columns and Beams Approval and Delivery (01 71 00)	75 days	Tue Aug 3, '21	Mon Nov 15, '21	18
27	1.1.1.3.8	Curtain Wall (01 71 00)	30 days	Tue Aug 3, '21	Mon Sep 13, '21	18
28	1.1.1.3.9	Pre-Cast Elevator Shaft	45 days	Tue Aug 3, '21	Mon Oct 4, '21	18
29	**1.1.1.4**	**Necessary Shop Drawings**	**50 days**	**Tue Aug 3, '21**	**Mon Oct 11, '21**	
30	1.1.1.4.1	Concrete Reinforcement (01 71 00)	15 days	Tue Aug 3, '21	Mon Aug 23, '21	18
31	1.1.1.4.2	Elevator (01 71 00)	30 days	Tue Aug 3, '21	Mon Sep 13, '21	18
32	1.1.1.4.3	Waterproofing (01 71 00)	3 days	Tue Aug 3, '21	Thu Aug 5, '21	18
33	1.1.1.4.4	Pre-Cast (01 71 00)	25 days	Tue Aug 3, '21	Mon Sep 6, '21	18
34	1.1.1.4.5	Structural Steel (01 71 00)	12 days	Tue Aug 3, '21	Wed Aug 18, '21	18
35	1.1.1.4.6	MEP (01 71 00)	6 days	Tue Aug 3, '21	Tue Aug 10, '21	18
36	1.1.1.4.7	Storefront/Glass (01 71 00)	10 days	Tue Aug 3, '21	Mon Aug 16, '21	18
37	1.1.1.4.8	Fire Protection (01 71 00)	5 days	Tue Aug 3, '21	Mon Aug 9, '21	18
38	1.1.1.4.9	Hand Railings (01 71 00)	3 days	Tue Aug 3, '21	Thu Aug 5, '21	18
39	1.1.1.4.1	Hollow Metal Doors (01 71 00)	2 days	Tue Aug 3, '21	Wed Aug 4, '21	18
40	1.1.1.4.1	TPO Roof (01 71 00)	3 days	Tue Aug 3, '21	Thu Aug 5, '21	18
41	1.1.1.4.1	Shop Drawing Approval (01 71 00)	20 days	Tue Sep 14, '21	Mon Oct 11, '21	30,31,32,33,34,35
42	**1.1.2**	**Site Mobilization**	**38 days**	**Tue Jan 18, '22**	**Thu Mar 10, '22**	
43	1.1.2.1	Job Trailer (01 52 13)	1 day	Tue Jan 18, '22	Tue Jan 18, '22	21,41
44	1.1.2.2	Demolition Equipment	2 days	Wed Jan 19, '22	Thu Jan 20, '22	43
45	1.1.2.3	Crane Mobilization and Setup	2 days	Wed Jan 19, '22	Thu Jan 20, '22	43
46	1.1.2.4	Set up Temporary Fencing (01 56 26)	4 days	Wed Jan 19, '22	Mon Jan 24, '22	43
47	1.1.2.5	Set Up Dust Barrier (01 56 16)	3 days	Tue Jan 18, '22	Thu Jan 20, '22	43FS-1 day
48	1.1.2.6	Set Up Project Signs (01 58 13)	1 day	Wed Jan 19, '22	Wed Jan 19, '22	43
49	1.1.2.7	Set Up Temporary Power (01 51 13)	3 days	Wed Jan 19, '22	Fri Jan 21, '22	43
50	1.1.2.8	Set Up Material Storage Barriers (01 71 23)	2 days	Wed Jan 19, '22	Thu Jan 20, '22	43
51	1.1.2.9	Set Up Parking (01 55 23)	1 day	Wed Jan 19, '22	Wed Jan 19, '22	43
52	1.1.2.10	Set Up Portable Toilets (01 54 33)	1 day	Wed Jan 19, '22	Wed Jan 19, '22	43
53	1.1.2.11	Set Up Temporary Road (01 51 23)	6 days	Thu Mar 3, '22	Thu Mar 10, '22	64
54	**1.2**	**Demolition**	**33 days**	**Tue Jan 25, '22**	**Thu Mar 10, '22**	
55	1.2.1	Remove Cooling Tower Structure (02 43 13)	1 day	Tue Jan 25, '22	Tue Jan 25, '22	44,46,50,51
56	1.2.2	Remove Parking Lot (02 41 19)	19 days	Wed Jan 26, '22	Mon Feb 21, '22	55
57	1.2.3	Remove Retaining Wall and Sidewalks (02 41 13)	1 day	Tue Feb 22, '22	Tue Feb 22, '22	56
58	1.2.4	Remove Underlying Asbestos (02 82 13)	1 day	Fri Feb 18, '22	Fri Feb 18, '22	57FS-3 days
59	1.2.5	Haul Off Materials (31 23 23)	6 days	Thu Mar 3, '22	Thu Mar 10, '22	64
60	**1.3**	**Site Work**	**40 days**	**Tue Feb 22, '22**	**Mon Apr 18, '22**	
61	**1.3.1**	**Dirtwork**	**30 days**	**Tue Feb 22, '22**	**Mon Apr 4, '22**	
62	1.3.1.1	Strip Top Soil (31 14 13)	3 days	Tue Feb 22, '22	Thu Feb 24, '22	56
63	1.3.1.2	Cut/Fill Excavation (31 23 16)	3 days	Fri Feb 25, '22	Tue Mar 1, '22	62
64	1.3.1.3	Rough Grade Site (31 22 13)	1 day	Wed Mar 2, '22	Wed Mar 2, '22	63
65	1.3.1.4	Soil Treatment (31 31 16)	21 days	Thu Mar 3, '22	Thu Mar 31, '22	64
66	1.3.1.5	Survey Land before Construction (02 21 13)	2 days	Fri Apr 1, '22	Mon Apr 4, '22	65
67	**1.3.2**	**Utilities**	**37 days**	**Thu Feb 24, '22**	**Mon Apr 18, '22**	
68	1.3.2.1	Site Utilities Materials On Site	0 days	Thu Feb 24, '22	Thu Feb 24, '22	62
69	1.3.2.2	Connect to Water Main (22 11 13)	12 days	Fri Apr 1, '22	Mon Apr 18, '22	65
70	1.3.2.3	Connect to Electrical Main (26 09 00)	12 days	Fri Apr 1, '22	Mon Apr 18, '22	65
71	1.3.2.4	Connect to Storm Drainage and Sanitary (33 41 00)	5 days	Fri Apr 1, '22	Thu Apr 7, '22	65
72	**1.4**	**Parking Garage Construction**	**312 days**	**Thu Apr 7, '22**	**Mon Jun 19, '23**	
73	**1.4.1**	**Foundation Utilities**	**14 days**	**Thu Apr 7, '22**	**Wed Apr 27, '22**	
74	1.4.1.1	Rebar, Formwork, Ties, WWF and Column Shoes for Garage on Site	0 days	Thu Apr 7, '22	Thu Apr 7, '22	71
75	1.4.1.2	Underground Electrical Connections (26 09 00)	6 days	Tue Apr 19, '22	Tue Apr 26, '22	69,70,71
76	1.4.1.3	Underground Plumbing and Electrical Inspections (22 11 00,26 09 00)	1 day	Wed Apr 27, '22	Wed Apr 27, '22	75
77	**1.4.2**	**Foundation Concrete**	**60 days**	**Thu Apr 28, '22**	**Wed Jul 20, '22**	
78	1.4.2.1	Bore Holes for Foundation Piles (31 62 13)	6 days	Thu Apr 28, '22	Thu May 5, '22	76
79	1.4.2.2	Place Steel in Ground for Piles (31 62 13)	6 days	Fri May 6, '22	Fri May 13, '22	78
80	1.4.2.3	Pour Pile Concrete (31 62 13)	7 days	Thu May 12, '22	Fri May 20, '22	79FS-2 days
81	1.4.2.4	Excavate for Garage and Retail Foundation Footings (31 23 16)	2 days	Thu Apr 28, '22	Fri Apr 29, '22	76
82	1.4.2.5	Excavate for Elevator Shaft Pit (31 23 16)	1 day	Mon May 23, '22	Mon May 23, '22	78,79,80
83	1.4.2.6	Tie Rebar for Footings (03 21 11)	2 days	Mon May 2, '22	Tue May 3, '22	81
84	1.4.2.7	Create Formwork for Footings (03 11 13)	7 days	Mon May 2, '22	Tue May 10, '22	81
85	1.4.2.8	Pour Foundation Footings (03 31 13)	1 day	Tue May 24, '22	Tue May 24, '22	82,83,84
86	1.4.2.9	Place Waterproofing for Elevator Shaft (07 16 16)	1 day	Wed May 11, '22	Wed May 11, '22	84
87	1.4.2.10	Backfill Footings for Foundation (31 23 23)	4 days	Wed May 25, '22	Mon May 30, '22	85
88	1.4.2.11	Place Insulation around Footings (07 21 13)	4 days	Tue May 31, '22	Fri Jun 3, '22	87
89	1.4.2.12	Termite Treatment (31 31 16)	1 day	Mon Jun 6, '22	Mon Jun 6, '22	88
90	1.4.2.13	Place Vapor Barrier for Garage Slab (07 26 16)	5 days	Tue Jun 7, '22	Mon Jun 13, '22	89
91	1.4.2.14	Lay Down Waterstop for Foundation Slab (03 15 13)	3 days	Tue Jun 14, '22	Thu Jun 16, '22	90
92	1.4.2.15	Create Formwork for Garage First Floor Slab (03 11 13)	1 day	Fri Jun 17, '22	Fri Jun 17, '22	91
93	1.4.2.16	Lay Down Welded Wire Fabric for Slab (03 22 13)	6 days	Thu Jun 16, '22	Thu Jun 23, '22	92FS-2 days
94	1.4.2.17	Pour Garage First Floor Slab (03 31 13)	15 days	Fri Jun 24, '22	Thu Jul 14, '22	93
95	1.4.2.18	Place Formwork for Entrance Ramp (03 11 13)	1 day	Fri Jul 15, '22	Fri Jul 15, '22	94
96	1.4.2.19	Place Welded Wire Fabric for Entrance Ramp (03 22 11)	1 day	Fri Jul 15, '22	Fri Jul 15, '22	94
97	1.4.2.20	Pour Entrance Ramp (03 31 13)	3 days	Mon Jul 18, '22	Wed Jul 20, '22	94,96
98	**1.4.3**	**Deck 1 (Basement)**	**66 days**	**Tue May 24, '22**	**Wed Aug 24, '22**	
99	1.4.3.1	First Floor Components on Site (Pre-Cast Walls, Door Frames, Pre-Cast Beams)	0 days	Tue May 24, '22	Tue May 24, '22	85
100	1.4.3.2	Create Formwork for First Floor Columns (03 11 13)	7 days	Wed Jul 20, '22	Thu Jul 28, '22	94FS+3 days,99
101	1.4.3.3	Form and Tie Rebar for First Floor Columns (03 21 11)	2 days	Thu Jul 21, '22	Fri Jul 22, '22	94,97,99
102	1.4.3.4	Pour Concrete Columns (03 31 13)	3 days	Thu Jul 28, '22	Mon Aug 1, '22	100FS-1 day,101F
103	1.4.3.5	Place Door Frames onto Pre-Cast Walls (Staircase Section) (08 12 13)	1 day	Wed May 25, '22	Wed May 25, '22	99
104	1.4.3.6	Install and Connect Pre-Cast Elevator Shaft (03 45 13)	1 day	Tue Aug 2, '22	Tue Aug 2, '22	86,102
105	1.4.3.7	Place Separation Walls for Staircase Section and Below-Grade Walls (03 41 33)	3 days	Wed Aug 3, '22	Fri Aug 5, '22	103,104
106	1.4.3.8	Grout Wall to Column Connections (03 62 13)	4 days	Mon Aug 8, '22	Thu Aug 11, '22	105
107	1.4.3.9	Connect Beams to Columns (03 41 00)	3 days	Fri Aug 12, '22	Tue Aug 16, '22	102,106
108	1.4.3.10	Grout Beams to Columns (03 61 00)	3 days	Mon Aug 15, '22	Wed Aug 17, '22	107FS-2 days
109	1.4.3.11	Install Basement Pre-Cast Staircase and Landing (03 41 23)	1 day	Thu Aug 18, '22	Thu Aug 18, '22	105,108
110	1.4.3.12	Backfill to Cover Underground Floor (31 23 23)	4 days	Fri Aug 19, '22	Wed Aug 24, '22	105,109
111	**1.4.4**	**Deck 2**	**43 days**	**Fri Aug 5, '22**	**Wed Oct 5, '22**	
112	1.4.4.1	Second Floor Components on Site (Pre-Cast Floors, Pre-Cast Ramp, Pre-Cast Walls, Door Frames, Pre-Cast Beams)	0 days	Fri Aug 5, '22	Fri Aug 5, '22	105
113	1.4.4.2	Set Pre-Cast Floors onto Beams (03 41 33)	5 days	Thu Aug 18, '22	Wed Aug 24, '22	108,112
114	1.4.4.3	Connect Floors to Beams (03 41 13)	4 days	Tue Aug 23, '22	Fri Aug 26, '22	113FS-2 days
115	1.4.4.4	Set First Floor Ramp onto Floors (03 41 33)	2 days	Mon Aug 29, '22	Tue Aug 30, '22	114
116	1.4.4.5	Connect Ramp to Floors (03 41 33)	2 days	Tue Aug 30, '22	Wed Aug 31, '22	115FS-1 day
117	1.4.4.6	Create Formwork for Second Floor Columns (03 11 13)	7 days	Thu Sep 1, '22	Fri Sep 9, '22	113,116
118	1.4.4.7	Form and Tie Rebar for Second Floor Columns (03 21 11)	2 days	Thu Sep 8, '22	Fri Sep 9, '22	116FS+5 days
119	1.4.4.8	Pour Second Floor Columns (03 31 13)	4 days	Mon Sep 12, '22	Thu Sep 15, '22	117,118
120	1.4.4.9	Place Door Frames onto Pre-Cast Walls (Staircase Sections and Retail Separation) (08 12 13)	1 day	Mon Aug 8, '22	Mon Aug 8, '22	112
121	1.4.4.10	Install and Connect Pre-Cast Elevator Shaft (03 45 13)	1 day	Fri Sep 16, '22	Fri Sep 16, '22	119
122	1.4.4.11	Place Separation Walls between Garage, Retail, and Staircase Sections (03 41 33)	4 days	Mon Sep 19, '22	Thu Sep 22, '22	120,121
123	1.4.4.12	Grout Wall to Column Connections (03 61 00)	5 days	Fri Sep 23, '22	Thu Sep 29, '22	122
124	1.4.4.13	Connect Beams to Columns (03 41 33)	3 days	Thu Sep 29, '22	Mon Oct 3, '22	119,122,123FS-1
125	1.4.4.14	Grout Beams to Columns (03 61 00)	3 days	Fri Sep 30, '22	Tue Oct 4, '22	124FS-2 days
126	1.4.4.15	Install Second Floor Pre-Cast Staircases and Landings (03 41 23)	1 day	Wed Oct 5, '22	Wed Oct 5, '22	122,125
127	1.4.4.16	Form Entry Ramp to Second Floor (03 11 13)	1 day	Mon Aug 29, '22	Mon Aug 29, '22	114
128	1.4.4.17	Place Welded Wire Fabric for Entry Ramp (03 22 11)	1 day	Tue Aug 30, '22	Tue Aug 30, '22	127
129	1.4.4.18	Pour Entry Ramp Concrete (03 31 13)	1 day	Wed Aug 31, '22	Wed Aug 31, '22	128
130	1.4.4.19	Create Formwork for Stairs and Ramps between Retail (03 11 23)	1 day	Mon Aug 29, '22	Mon Aug 29, '22	114
131	1.4.4.20	Tie Rebar for Stairs (03 21 13)	1 day	Mon Aug 29, '22	Mon Aug 29, '22	130FS-1 day
132	1.4.4.21	Pour Stairs between Retail (03 31 13)	1 day	Mon Aug 29, '22	Mon Aug 29, '22	131FS-1 day
133	**1.4.5**	**Deck 3**	**43 days**	**Thu Sep 15, '22**	**Tue Nov 15, '22**	



Project: Cadence Parking Garag
Date: Thu Apr 15, '21

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

ID	WBS	Task Name	Duration	Start	Finish	Predecessors
134	1.4.5.1	Third Floor Components on Site (Pre-Cast Floors, Pre-Cast Ramp, Pre-Cast Walls, Door Frames, Pre-Cast Beams)	0 days	Thu Sep 15, '22	Thu Sep 15, '22	119
135	1.4.5.2	Set Pre-Cast Floors onto Beams (03 41 33)	5 days	Wed Oct 5, '22	Tue Oct 11, '22	125,119
136	1.4.5.3	Connect Floors to Beams (03 41 13)	4 days	Mon Oct 10, '22	Thu Oct 13, '22	135FS-2 days
137	1.4.5.4	Set Second Floor Ramp onto Floors (03 41 33)	2 days	Fri Oct 14, '22	Mon Oct 17, '22	136
138	1.4.5.5	Connect Ramp to Floors (03 41 33)	2 days	Mon Oct 17, '22	Tue Oct 18, '22	137FS-1 day
139	1.4.5.6	Create Formwork for Third Floor Columns (03 11 13)	7 days	Wed Oct 19, '22	Thu Oct 27, '22	135,138
140	1.4.5.7	Form and Tie Rebar for Third Floor Columns (03 21 11)	2 days	Wed Oct 26, '22	Thu Oct 27, '22	138FS+5 days
141	1.4.5.8	Pour Third Floor Columns (03 31 13)	4 days	Fri Oct 28, '22	Wed Nov 2, '22	139,140
142	1.4.5.9	Place Door Frames onto Pre-Cast Walls (Staircase Sections) (08 12 13)	1 day	Fri Sep 16, '22	Fri Sep 16, '22	134
143	1.4.5.10	Install and Connect Pre-Cast Elevator Shaft (03 45 13)	1 day	Thu Nov 3, '22	Thu Nov 3, '22	141
144	1.4.5.11	Place Separation Walls for Staircase Section (03 41 33)	1 day	Fri Nov 4, '22	Fri Nov 4, '22	142,143
145	1.4.5.12	Grout Wall to Column Connections (03 61 00)	3 days	Mon Nov 7, '22	Wed Nov 9, '22	144
146	1.4.5.13	Connect Beams to Columns (03 41 33)	3 days	Wed Nov 9, '22	Fri Nov 11, '22	141,144,145FS-1
147	1.4.5.14	Grout Beams to Columns (03 61 00)	3 days	Thu Nov 10, '22	Mon Nov 14, '22	146FS-2 days
148	1.4.5.15	Install Third Floor Pre-Cast Staircases and Landings (03 41 23)	1 day	Tue Nov 15, '22	Tue Nov 15, '22	144,147
149	**1.4.6**	**Deck 4**	**39 days**	**Wed Nov 2, '22**	**Tue Dec 27, '22**	
150	1.4.6.1	Fourth Floor Components on Site (Pre-Cast Floors, Pre-Cast Ramp, Pre-Cast Walls, Door Frames, Pre-Cast Beams)	0 days	Wed Nov 2, '22	Wed Nov 2, '22	141
151	1.4.6.2	Set Pre-Cast Floors onto Beams (03 41 33)	5 days	Tue Nov 15, '22	Mon Nov 21, '22	147,141
152	1.4.6.3	Connect Floors to Beams (03 41 13)	4 days	Fri Nov 18, '22	Wed Nov 23, '22	151FS-2 days
153	1.4.6.4	Set Third Floor Ramp onto Floors (03 41 33)	2 days	Thu Nov 24, '22	Fri Nov 25, '22	152
154	1.4.6.5	Connect Ramp to Floors (03 41 33)	2 days	Fri Nov 25, '22	Mon Nov 28, '22	153FS-1 day
155	1.4.6.6	Create Formwork for Fourth Floor Columns (03 11 13)	7 days	Tue Nov 29, '22	Wed Dec 7, '22	151,154
156	1.4.6.7	Form and Tie Rebar for Fourth Floor Columns (03 21 11)	2 days	Tue Dec 6, '22	Wed Dec 7, '22	154FS+5 days
157	1.4.6.8	Pour Fourth Floor Columns (03 31 13)	4 days	Thu Dec 8, '22	Tue Dec 13, '22	155,156
158	1.4.6.9	Place Door Frames onto Pre-Cast Walls (Staircase Sections) (08 12 13)	1 day	Thu Nov 3, '22	Thu Nov 3, '22	150
159	1.4.6.10	Install and Connect Pre-Cast Elevator Shaft (03 45 13)	1 day	Wed Dec 14, '22	Wed Dec 14, '22	157
160	1.4.6.11	Place Separation Walls for Staircase Section (03 41 33)	1 day	Thu Dec 15, '22	Thu Dec 15, '22	158,159
161	1.4.6.12	Grout Wall to Column Connection (03 61 00)	3 days	Fri Dec 16, '22	Tue Dec 20, '22	160
162	1.4.6.13	Connect Cantilevered Beams to Columns (03 41 33)	4 days	Tue Dec 20, '22	Fri Dec 23, '22	157,160,161FS-1
163	1.4.6.14	Grout Beams to Columns (03 61 00)	3 days	Thu Dec 22, '22	Mon Dec 26, '22	162FS-2 days
164	1.4.6.15	Install Fourth Floor Pre-Cast Staircase and Landing (03 41 23)	1 day	Tue Dec 27, '22	Tue Dec 27, '22	160,163
165	**1.4.7**	**Deck 5**	**37 days**	**Tue Dec 13, '22**	**Thu Feb 2, '23**	
166	1.4.7.1	Fifth Floor Components on Site	0 days	Tue Dec 13, '22	Tue Dec 13, '22	157
167	1.4.7.2	Set Pre-Cast Floors onto Beams (03 41 33)	5 days	Tue Dec 27, '22	Mon Jan 2, '23	161,163
168	1.4.7.3	Connect Floors to Beams (03 41 13)	4 days	Fri Dec 30, '22	Wed Jan 4, '23	167FS-2 days
169	1.4.7.4	Set Fourth Floor Ramp onto Floors (03 41 33)	2 days	Thu Jan 5, '23	Fri Jan 6, '23	168
170	1.4.7.5	Connect Ramp to Floors (03 41 33)	2 days	Fri Jan 6, '23	Mon Jan 9, '23	169FS-1 day
171	1.4.7.6	Create Formwork for Staircase Section Columns (03 11 13)	2 days	Tue Jan 10, '23	Wed Jan 11, '23	167,170
172	1.4.7.7	Form and Tie Rebar for Staircase Section Columns (03 21 11)	2 days	Tue Jan 10, '23	Wed Jan 11, '23	167,170
173	1.4.7.8	Pour Staircase Sections Columns (03 31 13)	1 day	Thu Jan 12, '23	Thu Jan 12, '23	172
174	1.4.7.9	Place Door Frames onto Pre-Cast Walls (Staircase Sections) (08 12 13)	1 day	Wed Dec 14, '22	Wed Dec 14, '22	166
175	1.4.7.10	Install and Connect the Pre-Cast Elevator Shaft (03 45 13)	1 day	Fri Jan 13, '23	Fri Jan 13, '23	173
176	1.4.7.11	Place Separation Walls for Staircase Sections (03 41 33	1 day	Mon Jan 16, '23	Mon Jan 16, '23	175,174
177	1.4.7.12	Grout Walls to Column Connection (03 61 00)	2 days	Tue Jan 17, '23	Wed Jan 18, '23	176
178	1.4.7.13	Install Pre-Cast Roof to Staircase Sections (03 41 23)	1 day	Thu Feb 2, '23	Thu Feb 2, '23	183,177
179	**1.4.8**	**Exterior - Parking Garage**	**210 days**	**Mon Aug 29, '22**	**Mon Jun 19, '23**	
180	1.4.8.1	All Steel and Elevator Equipment on Site	0 days	Mon Aug 29, '22	Mon Aug 29, '22	132
181	1.4.8.2	Backfill for Exterior Terrace and Staircase (31 23 23)	3 days	Tue Aug 30, '22	Thu Sep 1, '22	180
182	1.4.8.3	Install Structural Steel Beams, Tubing and Bracing (05 12 23)	20 days	Fri Feb 3, '23	Thu Mar 2, '23	178
183	1.4.8.4	Install Elevator Assembly (14 24 23)	10 days	Thu Jan 19, '23	Wed Feb 1, '23	180,177
184	1.4.8.5	Roofing Material and Modular Panels on Site	0 days	Wed Jan 18, '23	Wed Jan 18, '23	177
185	1.4.8.6	Weld and Bolt Steel fully to Structure (05 12 23)	17 days	Fri Feb 10, '23	Mon Mar 6, '23	182FS-15 days
186	1.4.8.7	Install TPO Roof to Staircase Sections (07 54 23)	2 days	Fri Feb 3, '23	Mon Feb 6, '23	178
187	1.4.8.8	Install Cooling Tower Walls (23 05 05)	1 day	Tue Feb 7, '23	Tue Feb 7, '23	186
188	1.4.8.9	Install Cooling Tower (23 05 05)	2 days	Wed Feb 8, '23	Thu Feb 9, '23	187
189	1.4.8.10	Hang Pre-Cast Panels and Channel Glass for facade (03 45 13)	35 days	Tue Mar 7, '23	Mon Apr 24, '23	185,184
190	1.4.8.11	Hang Soffit Panels (03 45 13)	6 days	Tue Apr 25, '23	Tue May 2, '23	189
191	1.4.8.12	Hang Panels off Fifth Floor Cantilevered Beams (03 45 13)	4 days	Wed May 3, '23	Mon May 8, '23	190
192	1.4.8.13	Sidewalk, Curb, and Patio Materials on Site	0 days	Tue May 2, '23	Tue May 2, '23	190
193	1.4.8.14	Finish Grade for Sidewalks and Patios (31 22 16)	5 days	Wed May 3, '23	Tue May 9, '23	192
194	1.4.8.15	Create Formwork for Sidewalks and Patios (03 11 13)	2 days	Wed May 10, '2	Thu May 11, '23	193
195	1.4.8.16	Place Welded Wire Fabric for Sidewalks and Patios (03 22 11)	2 days	Fri May 12, '23	Mon May 15, '23	194
196	1.4.8.17	Pour Sidewalks and Patios (03 30 53)	2 days	Tue May 16, '23	Wed May 17, '23	195
197	1.4.8.18	Install Steel for Staircase and Entrance to Existing Building (08 81 55)	9 days	Mon May 22, '2	Thu Jun 1, '23	196FS+2 days
198	1.4.8.19	Install Glass for Staircase and Entrance to Existing Building (08 81 55)	10 days	Fri Jun 2, '23	Thu Jun 15, '23	197
199	1.4.8.20	Install Railings for Staircase and Entrance (08 81 55)	2 days	Fri Jun 16, '23	Mon Jun 19, '23	198
200	1.4.8.21	Install East Staircase Section Curtain Wall (08 44 13)	7 days	Tue May 9, '23	Wed May 17, '23	191
201	1.4.8.22	Landscaping (32 19 19)	3 days	Mon May 22, '2	Wed May 24, '23	196FS+2 days
202	**1.4.9**	**Interiors - Parking Garage**	**75 days**	**Wed Nov 2, '22**	**Wed Feb 15, '23**	
203	1.4.9.1	Interior Electrical Materials on Site	0 days	Wed Nov 2, '22	Wed Nov 2, '22	150
204	1.4.9.2	Run Conduit for Lighting and Security Cameras (26 51 00, 28 21 00)	10 days	Wed Nov 16, '22	Tue Nov 29, '22	148
205	1.4.9.3	Run Wiring for Lighting and Security Cameras (26 51 00, 28 21 00)	15 days	Wed Nov 30, '22	Tue Dec 20, '22	204
206	1.4.9.4	Install Lighting and Security Cameras (26 51 00, 28 21 00)	6 days	Wed Dec 21, '22	Wed Dec 28, '22	205
207	1.4.9.5	Hook up Panelboard (26 24 16)	10 days	Wed Dec 21, '22	Tue Jan 3, '23	205
208	1.4.9.6	Sprinkler Line Materials on Site	0 days	Wed Dec 28, '22	Wed Dec 28, '22	206
209	1.4.9.7	Panelboards and Electrical Inspection (26 09 00)	0 days	Tue Jan 3, '23	Tue Jan 3, '23	207
210	1.4.9.8	Run Sprinkler System Lines (21 13 00)	30 days	Thu Dec 29, '22	Wed Feb 8, '23	208
211	1.4.9.9	Sprinkler System Inspection (21 13 00)	0 days	Thu Feb 9, '23	Thu Feb 9, '23	210FS+1 day
212	1.4.9.10	Install Stair and Deck Railings (05 52 13)	8 days	Wed Nov 16, '22	Fri Nov 25, '22	148
213	1.4.9.11	Install Doors for Separated Rooms (08 11 16)	6 days	Wed Nov 16, '22	Wed Nov 23, '22	148
214	1.4.9.12	Install Elevator Equipment (14 28 00)	10 days	Wed Nov 16, '22	Tue Nov 29, '22	148
215	1.4.9.13	Elevator Inspection (14 28 00)	0 days	Tue Nov 29, '22	Tue Nov 29, '22	214
216	1.4.9.14	Paint and Parking Bumpers on Site	0 days	Tue Nov 29, '22	Tue Nov 29, '22	214
217	1.4.9.15	Set Up Equipment for Electrical/Storage Room	20 days	Wed Nov 30, '22	Tue Dec 27, '22	215
218	1.4.9.16	Install Signage (10 14 23)	4 days	Wed Dec 21, '22	Mon Dec 26, '22	205
219	1.4.9.17	Paint Parking Space Designations (32 17 23)	5 days	Fri Feb 3, '23	Thu Feb 9, '23	178
220	1.4.9.18	Place Parking Bumpers (32 17 13)	5 days	Fri Feb 3, '23	Thu Feb 9, '23	178
221	1.4.9.19	Install Bollards (32 17 13)	3 days	Fri Feb 10, '23	Tue Feb 14, '23	220
222	1.4.9.20	Install Parking Gates (11 12 33)	4 days	Fri Feb 10, '23	Wed Feb 15, '23	220
223	**1.5**	**Retail Stores Construction**	**135 days**	**Wed Nov 2, '22**	**Wed May 10, '23**	
224	**1.5.1**	**Structure**	**93 days**	**Wed Nov 2, '22**	**Mon Mar 13, '23**	
225	1.5.1.1	Metal Studs, Insulation, and Waterproofing on Site	0 days	Wed Nov 2, '22	Wed Nov 2, '22	150
226	1.5.1.2	Waterproof Roofing of Retail Spaces (07 16 16)	2 days	Wed Nov 16, '22	Thu Nov 17, '22	148
227	1.5.1.3	Frame Exterior Walls (05 41 00)	4 days	Fri Nov 18, '22	Wed Nov 23, '22	226
228	1.5.1.4	Place Insulation in Exterior Walls (07 21 13)	2 days	Fri Mar 10, '23	Mon Mar 13, '23	246
229	**1.5.2**	**Openings**	**83 days**	**Wed Nov 2, '22**	**Mon Feb 27, '23**	
230	1.5.2.1	Storefront and Glazing Materials on Site	0 days	Wed Nov 2, '22	Wed Nov 2, '22	150
231	1.5.2.2	Install Aluminum Storefronts and Entrances (08 41 13)	20 days	Tue Nov 22, '22	Mon Dec 19, '22	227FS-2 days
232	1.5.2.3	Install Glazing (08 44 00)	40 days	Tue Dec 20, '22	Mon Feb 13, '23	231
233	1.5.2.4	Caulk all Exterior Joints	10 days	Tue Feb 14, '23	Mon Feb 27, '23	232
234	1.5.2.5	Building Dry-In	0 days	Mon Feb 27, '23	Mon Feb 27, '23	233
235	**1.5.3**	**MEP**	**82 days**	**Wed Nov 23, '22**	**Fri Mar 17, '23**	
236	**1.5.3.1**	**Overhead Rough-Ins**	**72 days**	**Wed Nov 23, '22**	**Fri Mar 3, '23**	
237	1.5.3.1.1	MEP Materials on Site	0 days	Wed Nov 23, '22	Wed Nov 23, '22	227
238	1.5.3.1.2	Rough-In Overhead Ductwork (23 05 00)	4 days	Tue Feb 28, '23	Fri Mar 3, '23	233
239	1.5.3.1.3	Rough-In Overhead Plumbing (22 05 00)	4 days	Tue Feb 28, '23	Fri Mar 3, '23	233
240	1.5.3.1.4	Rough-In Overhead Electrical (26 05 00)	4 days	Tue Feb 28, '23	Fri Mar 3, '23	233
241	1.5.3.1.5	Rough-In Fire Sprinkler Lines (21 13 00)	4 days	Tue Feb 28, '23	Fri Mar 3, '23	233
242	1.5.3.1.6	Overhead MEP Inspection	0 days	Fri Mar 3, '23	Fri Mar 3, '23	238,239,240,241
243	**1.5.3.2**	**In-Wall Rough-Ins**	**10 days**	**Mon Mar 6, '23**	**Fri Mar 17, '23**	
244	1.5.3.2.1	Rough-In Plumbing (22 05 00)	4 days	Mon Mar 6, '23	Thu Mar 9, '23	242
245	1.5.3.2.2	Rough-In Electrical (26 05 00)	4 days	Mon Mar 6, '23	Thu Mar 9, '23	242
246	1.5.3.2.3	Electrical and Plumbing In-Wall Inspection	0 days	Thu Mar 9, '23	Thu Mar 9, '23	244,245
247	1.5.3.2.4	Pull Wiring (26 05 00)	6 days	Fri Mar 10, '23	Fri Mar 17, '23	246
248	**1.5.4**	**Interiors**	**120 days**	**Thu Nov 24, '22**	**Wed May 10, '23**	
249	1.5.4.1	Interior Material on Site	0 days	Mon Feb 27, '23	Mon Feb 27, '23	233
250	1.5.4.2	Install Partition Walls (09 21 16)	4 days	Thu Nov 24, '22	Tue Nov 29, '22	227
251	1.5.4.3	Install Gypsum Board (09 21 16)	8 days	Mon Mar 20, '23	Wed Mar 29, '23	247
252	1.5.4.4	Tape, Mud, and Sand Gyp. Board (09 23 00)	8 days	Thu Mar 30, '23	Mon Apr 10, '23	251
253	1.5.4.5	Install Fireproofing (07 84 13)	6 days	Tue Apr 11, '23	Tue Apr 18, '23	252
254	1.5.4.6	Install Acoustical Ceiling (09 51 23)	4 days	Wed Apr 19, '23	Mon Apr 24, '23	253
255	1.5.4.7	Paint Interior Walls (09 91 23)	8 days	Tue Apr 25, '23	Thu May 4, '23	254
256	1.5.4.8	Install Outlets (26 05 00)	4 days	Fri May 5, '23	Wed May 10, '23	255
257	1.5.4.9	Install HVAC Returns and Supplies (23 05 00)	4 days	Tue Apr 25, '23	Fri Apr 28, '23	254
258	**1.5.5**	**Equipment and Fixtures**	**48 days**	**Mon Feb 27, '23**	**Thu May 4, '23**	
259	1.5.5.1	Equipment on Site	0 days	Mon Feb 27, '23	Mon Feb 27, '23	234
260	1.5.5.2	Install HVAC Equipment (23 50 00)	4 days	Fri Mar 10, '23	Wed Mar 15, '23	246
261	1.5.5.3	Install Water Heaters (22 33 00)	2 days	Fri Mar 10, '23	Mon Mar 13, '23	246
262	1.5.5.4	Fixtures on Site	0 days	Thu May 4, '23	Thu May 4, '23	255
263	1.5.5.5	Install Bathroom Toilets and Sinks	2 days	Mon May 1, '23	Tue May 2, '23	257
264	1.6	Punch-Out	10 days	Thu May 25, '23	Wed Jun 7, '23	256,257,201,222
265	1.7	Final Cleaning	5 days	Thu Jun 8, '23	Wed Jun 14, '23	264
266	1.8	Building Turn Over	0 days	Thu Aug 10, '23	Thu Aug 10, '23	20FS+1 day



Project: Cadence Parking Garag
Date: Thu Apr 15, '21

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