

## MEMORANDUM

**To:** City of Moorpark, CA  
**From:** John Karnowski, PE, PTOE, AICP ([john.karnowski@NV5.com](mailto:john.karnowski@NV5.com))  
**CC:** Victoria Guobaitis, P.E., T.E., PTOE ([victoria.guobaitis@NV5.com](mailto:victoria.guobaitis@NV5.com))  
**Date:** December 22, 2020  
**Re:** Parking Analysis for DCX6 Delivery Station  
 6000 Condor Drive, Moorpark, CA 93021

---

This memo describes the methodology and results of the parking analysis at DCX6 in Moorpark, CA.

Table 1 shows the expected trip generation for the site each 30-minute period of the day. There are five primary vehicle trips:

- Associates – on site employees and supervisors
- Delivery Service Provider (DSP) personal vehicles – van drivers’ personal vehicles
- DSP Vans – delivery vans
- Flex vehicles – private delivery carriers who are summoned to the site for extra package delivery
- Tractor Trailers – goods delivered to the site from sortation centers

The site includes parking for 113 Associates and 262 DSP vans / drivers – 375 total, plus seven (7) spaces for tractor trailers.

When DSP drivers arrive on site, they pick up their vans and move them into position to either load or wait to load. DSP drivers park in spaces vacated by the delivery vans and therefore do not need additional, dedicated parking. For a short time during this process, both the DSP personal vehicle and the DSP delivery van are on site at the same time; but, the vans are in the loading zone areas. There are 20 queue spaces and 20 loading spaces in the building where vans could be stored overnight.

Flex cars do not need parking spaces since they drive directly into the loading area and receive their packages to deliver.

The parking demand was calculated by examining the entry and exit times of all vehicle types. Table 2 shows the demand on a 30-minute basis throughout the day. As can be seen by the negative values in the table, the DSP related traffic exceed the parking spaces but they do not need the spaces during those times.

The site has excess parking for tractor trailers and sufficient parking for DSP vans and Drivers if six (6) vans use the area near the loading dock. There is an excess of 15 auto spaces on site which could be used for the turnover of DSP drivers to DSP vans – i.e., van drivers may park in those spaces and then retrieve their vans without having to swap their personal vehicles in the same spaces as the deliver vans.

**Table 1. Trip Generation**

**DCX6 in Moorpark, CA - 2W2F**

Time	Associates			Trucks			DSP Drivers			DSP Vans			Flex			Total		
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
00:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
00:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
01:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
01:30	72	0	72	0	0	0	0	0	0	0	0	0	0	0	72	0	72	
02:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
02:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
04:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
05:30	22	0	22	0	1	1	0	0	0	0	0	0	0	0	22	1	23	
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
07:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
08:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
09:00	0	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	17	
09:30	0	0	0	1	0	1	67	0	67	0	0	0	0	0	68	0	68	
10:00	0	0	0	0	1	1	67	0	67	0	50	50	0	0	67	51	118	
10:30	0	0	0	0	0	0	2	0	2	0	100	100	0	0	2	100	102	
11:00	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	3	3	
11:30	4	0	4	0	0	0	0	0	0	0	0	0	0	0	4	0	4	
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:30	0	72	72	0	0	0	0	0	0	0	0	0	0	0	0	72	72	
13:00	22	0	22	0	0	0	0	0	0	0	0	0	0	0	22	0	22	
13:30	17	0	17	0	0	0	0	0	0	0	0	0	0	0	17	0	17	
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:30	0	22	22	0	0	0	0	0	0	0	0	0	0	0	0	22	22	
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	40	0	40	40	40	
16:30	0	0	0	1	0	1	0	0	0	0	0	0	0	20	20	1	21	
17:00	0	0	0	0	1	1	0	0	0	0	0	0	0	20	20	0	21	
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:00	0	17	17	1	0	1	0	0	0	0	0	0	0	0	1	17	18	
18:30	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
19:00	0	0	0	1	0	1	0	13	13	13	0	13	0	0	14	13	27	
19:30	0	0	0	0	1	1	0	26	26	65	0	65	0	0	65	27	92	
20:00	0	0	0	1	0	1	0	77	77	38	0	38	0	0	39	77	116	
20:30	0	0	0	0	1	1	0	25	25	37	0	37	0	0	37	26	63	
21:00	0	0	0	0	0	0	0	12	12	0	0	0	0	0	0	12	12	
21:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
22:00	0	22	22	0	1	1	0	0	0	0	0	0	0	0	0	23	23	
22:30	0	4	4	1	0	1	0	0	0	0	0	0	0	0	1	4	5	
23:00	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
23:30	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
<b>Total</b>	<b>137</b>	<b>137</b>	<b>274</b>	<b>14</b>	<b>14</b>	<b>28</b>	<b>153</b>	<b>153</b>	<b>306</b>	<b>153</b>	<b>153</b>	<b>306</b>	<b>40</b>	<b>40</b>	<b>80</b>	<b>497</b>	<b>497</b>	<b>994</b>

1st Shift:	2:00 AM	12:30 PM	72	Assoc.	25%
2nd Shift:	6:00 AM	2:30 PM	22	Assoc.	8%
3rd Shift:	1:30 PM	10:00 PM	22	Assoc.	8%
PFSD Shift:	2:00 PM	6:00 PM	17	Assoc.	6%
RTS Shift:	12:00 PM	10:30 PM	4	Assoc.	1%
Drivers:	9:20 AM	9:10 PM	153	Drivers	53%

**Table 2. Parking Loading**

Associate Parking	113
Truck Parking	7
DSP Personnel Parking	262
Van Spaces	0

SHARED SPACES; DOES NOT INCLUDE LOADING AREAS INSIDE BUILDING (40 SPACES)

DCX6 in Moorpark, CA - 2W2F																
NON PEAK Season - 30 Minute Totals																
Time	ENTER				EXIT				Total Associates Parked	Available Associates Spaces	Total Trucks Parked	Available Truck Spaces	Total DSP Related Parked	Available DSP Spaces	Total Parked*	Net Available Spaces*
	Associates	Trucks	DSP Related	Total	Associates	Trucks	DSP Related	Total								
12:00 AM	0	0	0	0	0	1	0	1	0	113	1	6	153	109	154	228
12:30 AM	0	1	0	1	0	0	0	0	0	113	2	5	153	109	155	227
1:00 AM	0	0	0	0	0	1	0	1	0	113	1	6	153	109	154	228
1:30 AM	72	0	0	72	0	0	0	0	72	41	1	6	153	109	226	156
2:00 AM	0	1	0	1	0	0	0	0	72	41	2	5	153	109	227	155
2:30 AM	0	0	0	0	0	1	0	1	72	41	1	6	153	109	226	156
3:00 AM	0	0	0	0	0	0	0	0	72	41	1	6	153	109	226	156
3:30 AM	0	1	0	1	0	0	0	0	72	41	2	5	153	109	227	155
4:00 AM	0	0	0	0	0	1	0	1	72	41	1	6	153	109	226	156
4:30 AM	0	0	0	0	0	0	0	0	72	41	1	6	153	109	226	156
5:00 AM	0	1	0	1	0	0	0	0	72	41	2	5	153	109	227	155
5:30 AM	22	0	0	22	0	1	0	1	94	19	1	6	153	109	248	134
6:00 AM	0	0	0	0	0	0	0	0	94	19	1	6	153	109	248	134
6:30 AM	0	1	0	1	0	0	0	0	94	19	2	5	153	109	249	133
7:00 AM	0	0	0	0	0	1	0	1	94	19	1	6	153	109	248	134
7:30 AM	0	0	0	0	0	0	0	0	94	19	1	6	153	109	248	134
8:00 AM	0	1	0	1	0	0	0	0	94	19	2	5	153	109	249	133
8:30 AM	0	0	0	0	0	1	0	1	94	19	1	6	153	109	248	134
9:00 AM	0	0	17	17	0	0	0	0	94	19	1	6	170	92	265	117
9:30 AM	0	1	67	68	0	0	0	0	94	19	2	5	237	25	343	49
10:00 AM	0	0	67	67	0	1	50	51	94	19	1	6	254	8	349	33
10:30 AM	0	0	2	2	0	0	100	100	94	19	1	6	156	106	253	129
11:00 AM	0	0	0	0	0	0	3	3	94	19	1	6	153	109	248	134
11:30 AM	4	0	0	4	0	0	0	0	98	15	1	6	153	109	252	130
12:00 PM	0	0	0	0	0	0	0	0	98	15	1	6	153	109	252	130
12:30 PM	0	0	0	0	72	0	0	72	26	87	1	6	153	109	180	202
1:00 PM	22	0	0	22	0	0	0	0	48	65	1	6	153	109	202	180
1:30 PM	17	0	0	17	0	0	0	0	65	48	1	6	153	109	219	163
2:00 PM	0	0	0	0	0	0	0	0	65	48	1	6	153	109	219	163
2:30 PM	0	0	0	0	22	0	0	22	43	70	1	6	153	109	197	185
3:00 PM	0	0	0	0	0	0	0	0	43	70	1	6	153	109	197	185
3:30 PM	0	0	0	0	0	0	0	0	43	70	1	6	153	109	197	185
4:00 PM	0	0	0	0	40	0	0	0	43	70	1	6	153	109	197	185
4:30 PM	0	1	0	1	0	0	0	0	20	43	2	5	153	109	198	184
5:00 PM	0	0	0	0	0	1	0	1	21	43	1	6	153	109	197	185
5:30 PM	0	0	0	0	0	0	0	0	43	70	1	6	153	109	197	185
6:00 PM	0	1	0	1	17	0	0	17	26	87	2	5	153	109	181	201
6:30 PM	0	0	0	0	0	1	0	1	26	87	1	6	153	109	180	202
7:00 PM	0	1	13	14	0	0	13	13	26	87	2	5	153	109	181	201
7:30 PM	0	0	65	65	0	1	26	27	26	87	1	6	192	70	219	163
8:00 PM	0	1	38	39	0	0	77	77	26	87	2	5	153	109	181	201
8:30 PM	0	0	37	37	0	1	25	26	26	87	1	6	165	97	192	190
9:00 PM	0	0	0	0	0	0	12	12	26	87	1	6	153	109	180	202
9:30 PM	0	1	0	1	0	0	0	0	26	87	2	5	153	109	181	201
10:00 PM	0	0	0	0	22	1	0	23	4	109	1	6	153	109	158	224
10:30 PM	0	1	0	1	4	0	0	4	0	113	2	5	153	109	155	227
11:00 PM	0	0	0	0	0	1	0	1	0	113	1	6	153	109	154	228
11:30 PM	0	1	0	1	0	0	0	0	0	113	2	5	153	109	155	227
<b>TOTAL</b>	<b>137</b>	<b>14</b>	<b>306</b>	<b>497</b>	<b>137</b>	<b>14</b>	<b>306</b>	<b>497</b>								
<b>Total Available Parking Spaces</b>									<b>113</b>	<b>6</b>	<b>109</b>	<b>228</b>				
<b>Maximum Parking Demand (Highest Half-Hour)</b>									<b>98</b>	<b>2</b>	<b>254</b>	<b>349</b>				
<b>Minimum Available (Maximum Shortage)</b>									<b>15</b>	<b>5</b>	<b>8</b>	<b>33</b>				

\*Flex vehicles are loading vehicles only and do not park on site

SWAPPING PERSONAL VEHICLES AND DELIVERY VANS