

# DANA POINT HARBOR MARINA IMPROVEMENT PROJECT ALTERNATIVES COMPARISON SUMMARY

7/23/2009

**Reduce less than 30' by 50%**

**Reduce less than 30' by 40%**

**Reduce less than 30' by 30%**

**Reduce less than 30' by 23%**

## 4 SIZE CATEGORY SUMMARY

SLIP SIZE	EXISTING SLIPS	% OF TOTAL
30' & Under	1795	75%
31' to 38'	273	11%
39' to 49'	236	10%
over 50'	105	4%
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>
<b>NET GAIN/LOSS</b>		
<b>AVG SIZE</b>	<b>29.85</b>	

*Doublewides - 33%, except for pitchforks*

ALT. 3.5L	% OF TOTAL	LOSS / GAIN
1049	50%	-746
637	31%	364
294	14%	58
99	5%	-6
<b>2079</b>	<b>100%</b>	<b>-330</b>
<b>-330</b>		
32.83		

+92 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

ALT. 3.5M	% OF TOTAL	LOSS / GAIN
1303	61%	-492
437	20%	164
307	14%	71
99	5%	-6
<b>2146</b>	<b>100%</b>	<b>-263</b>
<b>-263</b>		
32.07		

+159 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

ALT. 3.5N	% OF TOTAL	LOSS / GAIN
1385	64%	-410
393	18%	120
278	13%	42
99	5%	-6
<b>2155</b>	<b>100%</b>	<b>-254</b>
<b>-254</b>		
31.94		

+168 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

ALT. 3.5O	% OF TOTAL	LOSS / GAIN
1472	67%	-323
360	16%	87
269	12%	33
99	5%	-6
<b>2200</b>	<b>100%</b>	<b>-209</b>
<b>-209</b>		
31.34		

+213 (compared to 3.5H)

**Reduce less than 30' by 50%**

**Reduce less than 30' by 40%**

**Reduce less than 30' by 30%**

**Reduce less than 30' by 23%**

## 9 SIZE CATEGORY SUMMARY

SLIP SIZE	EXISTING SLIPS	% OF TOTAL
20 - 24	250	10%
25 - 29	1157	48%
30 - 34	391	16%
35 - 39	270	11%
40 - 44	129	5%
45 - 49	107	4%
50 - 54	57	2%
55 - 59	33	1%
60 & over	15	1%
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>
<b>NET GAIN/LOSS</b>		
<b>AVG SIZE</b>	<b>29.85</b>	
<b>TOTAL LF</b>	<b>67855</b>	

*Doublewides - 33%, except for pitchforks*

ALT. 3.5L	% OF TOTAL	LOSS / GAIN
125	6%	-125
580	28%	-577
625	30%	234
360	17%	90
173	8%	44
117	6%	10
54	3%	-3
31	1%	-2
14	1%	-1
<b>2079</b>	<b>100%</b>	<b>-330</b>
<b>-330</b>		
32.83		
68247		

+92 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

ALT. 3.5M	% OF TOTAL	LOSS / GAIN
155	7%	-95
701	33%	-456
491	23%	100
397	18%	127
184	9%	55
119	6%	12
54	3%	-3
31	1%	-2
14	1%	-1
<b>2146</b>	<b>100%</b>	<b>-263</b>
<b>-263</b>		
32.07		
68813		

+159 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

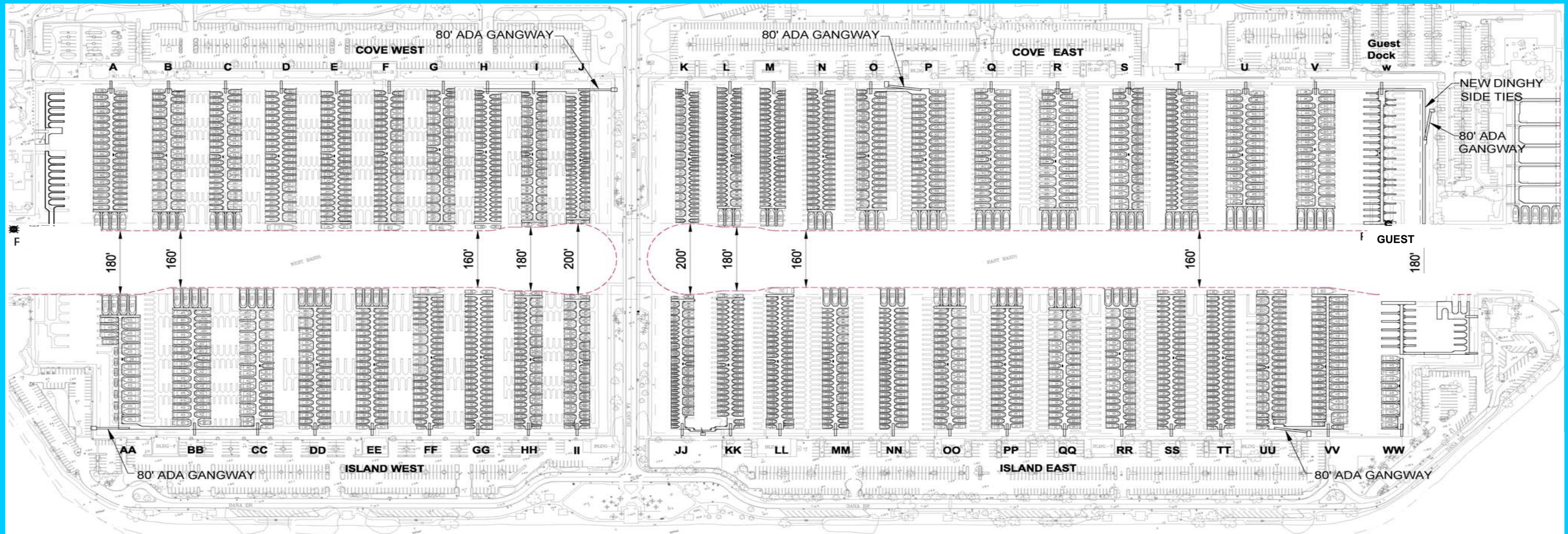
ALT. 3.5N	% OF TOTAL	LOSS / GAIN
175	8%	-75
810	38%	-347
467	22%	76
328	15%	58
158	7%	29
118	5%	11
54	3%	-3
31	1%	-2
14	1%	-1
<b>2155</b>	<b>100%</b>	<b>-254</b>
<b>-254</b>		
31.94		
68827		

+168 (compared to 3.5H)

*Doublewides - 33%, except for pitchforks*

ALT. 3.5O	% OF TOTAL	LOSS / GAIN
198	9%	-52
885	40%	-272
457	21%	66
295	13%	25
147	7%	18
119	5%	12
54	2%	-3
31	1%	-2
14	1%	-1
<b>2200</b>	<b>100%</b>	<b>-209</b>
<b>-209</b>		
31.34		
68947		

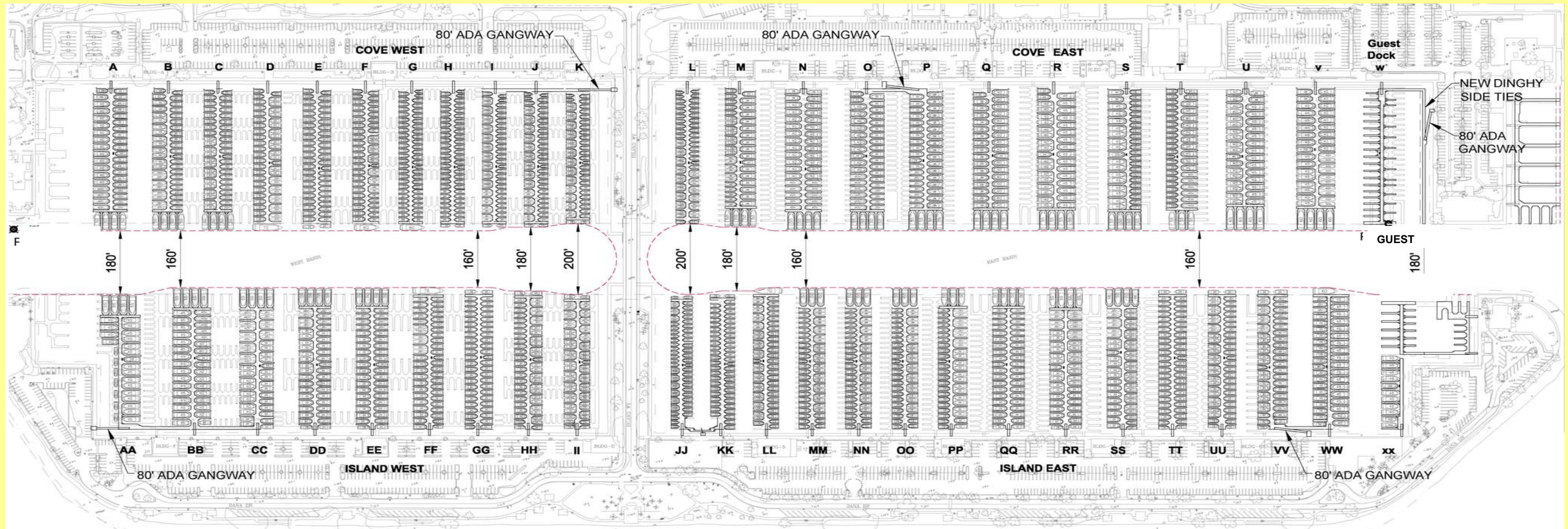
+213 (compared to 3.5H)



SLIP SIZE	EXISTING SLIPS	% OF TOTAL	ALT. 3.5L	% OF TOTAL	LOSS / GAIN
30' & Under	1795	75%	1049	50%	-746
31' to 38'	273	11%	637	31%	364
39' to 49'	236	10%	294	14%	58
over 50'	105	4%	99	5%	-6
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>	<b>2079</b>	<b>100%</b>	<b>-330</b>
<b>NET GAIN/LOSS</b>			<b>-330</b>		
<b>AVG SIZE</b>	<b>29.85</b>		<b>32.83</b>		

## ALT. 3.5L – 32.83' avg. slip size – Decrease of 330 slips

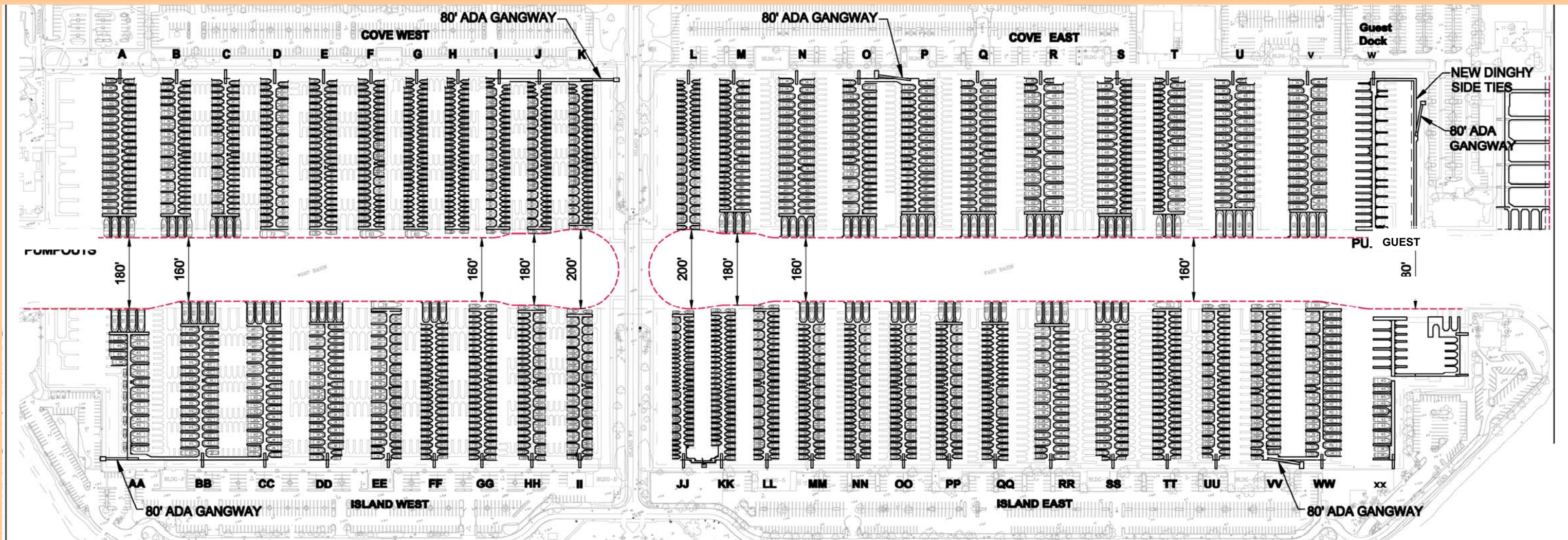
- Meets ADA and DBW Standards
- 70% power and 30% sail width slips (40' & under)
- Re-aligns West Basin to a North-South Orientation
- Doublewides – 1/3 of all slips (except for pitchforks)
- Some Channel Narrowing
- Reduces Existing Slips Less Than 30' by 50%



SLIP SIZE	EXISTING SLIPS	% OF TOTAL	ALT. 3.5M	% OF TOTAL	LOSS / GAIN
30' & Under	1795	75%	1303	61%	-492
31' to 38'	273	11%	437	20%	164
39' to 49'	236	10%	307	14%	71
over 50'	105	4%	99	5%	-6
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>	<b>2146</b>	<b>100%</b>	<b>-263</b>
<b>NET GAIN/LOSS</b>			<b>-263</b>		
<b>AVG SIZE</b>	<b>29.85</b>		<b>32.07</b>		

## ALT. 3.5M – 32.07’ avg. slip size – Decrease of 263 slips

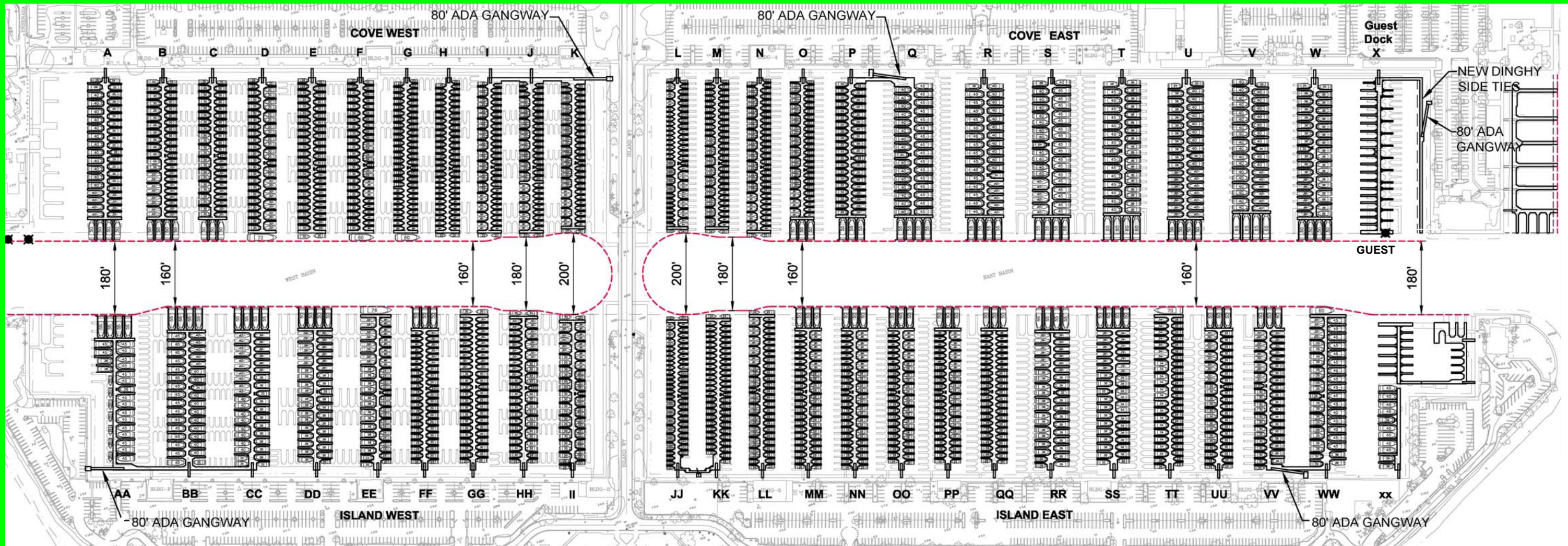
- Meets ADA and DBW Standards
- 70% power and 30% sail width slips (40' & under)
- Re-aligns West Basin to a North-South Orientation
- Doublewides – 1/3 of all slips (except for pitchforks)
- Some Channel Narrowing
- Reduces Existing Slips Less Than 30' by 40%



SLIP SIZE	EXISTING SLIPS	% OF TOTAL	ALT. 3.5N	% OF TOTAL	LOSS / GAIN
30' & Under	1795	75%	1385	64%	-410
31' to 38'	273	11%	393	18%	120
39' to 49'	236	10%	278	13%	42
over 50'	105	4%	99	5%	-6
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>	<b>2155</b>	<b>100%</b>	<b>-254</b>
<b>NET GAIN/LOSS</b>			<b>-254</b>		
<b>AVG SIZE</b>	<b>29.85</b>		<b>31.94</b>		

## ALT. 3.5N – 31.94' avg. slip size – Decrease of 254 slips

- Meets ADA and DBW Standards
- 70% power and 30% sail width slips (40' & under)
- Re-aligns West Basin to a North-South Orientation
- Doublewides – 1/3 of all slips (except for pitchforks)
- Some Channel Narrowing
- Reduces Existing Slips Less Than 30' by 30%



SLIP SIZE	EXISTING SLIPS	% OF TOTAL	ALT. 3.50	% OF TOTAL	LOSS / GAIN
30' & Under	1795	75%	1472	67%	-323
31' to 38'	273	11%	360	16%	87
39' to 49'	236	10%	269	12%	33
over 50'	105	4%	99	5%	-6
<b>TOTAL</b>	<b>2409</b>	<b>100%</b>	<b>2200</b>	<b>100%</b>	<b>-209</b>
<b>NET GAIN/LOSS</b>			<b>-209</b>		
<b>AVG SIZE</b>	<b>29.85</b>		<b>31.34</b>		

## ALT. 3.50 – 31.34’ avg. slip size – Decrease of 209 slips

- Meets ADA and DBW Standards
- 70% power and 30% sail width slips (40' & under)
- Re-aligns West Basin to a North-South Orientation
- Doublewides – 1/3 of all slips (except for pitchforks)
- Some Channel Narrowing
- Revision of Alt 3.5H (without increases to 50' & above)