

土木工程實 作專題

組別：第一組

組員：110612008 沈昱翔
110612035 劉沛宸
110612041 張育瑋
110612066 張誌剛
110612106 陳良魁
110612158 李明翰

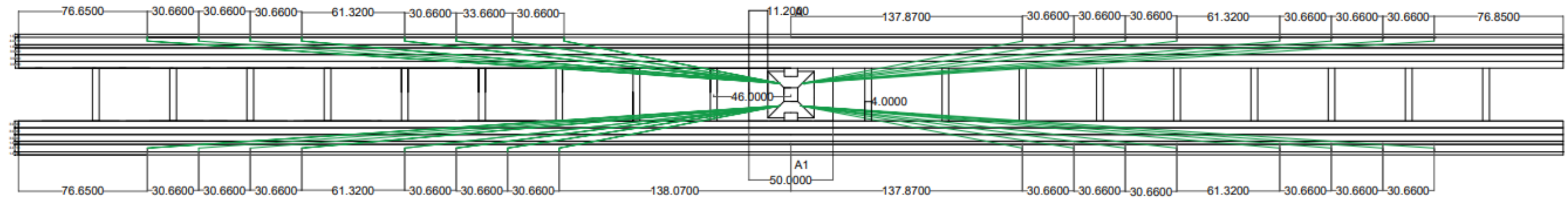




OVERVIEW OF THE BRIDGE

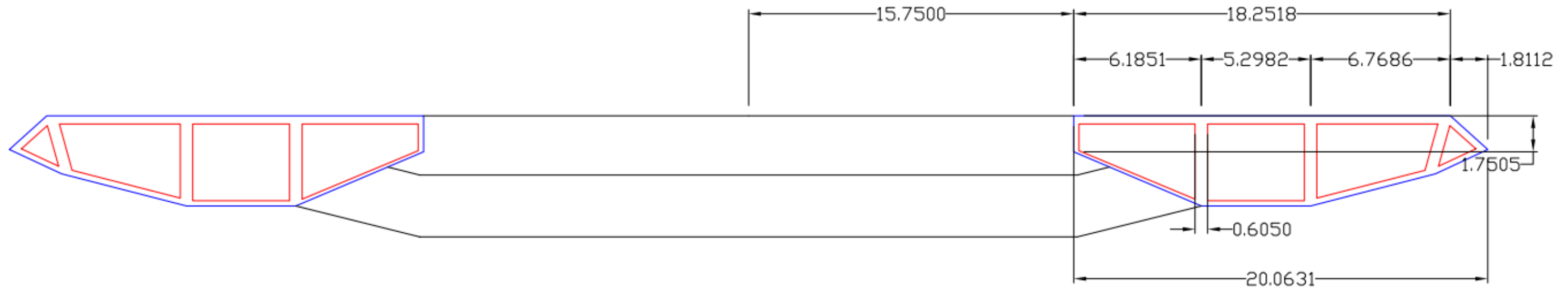
- 總長920公尺，為單一一座塔支撐
- 塔總高419公尺（本體高389公尺、基座高25公尺），橋斷面寬20.36公尺
- 來回共有6條車道來應對尖峰時期的車流量並在車道的最外側各設有1條人行道，以提供民眾能在橋上欣賞河川的景色。纜繩方面，總共使用了32條纜繩來支撐道路的重量。

TOP VIEW



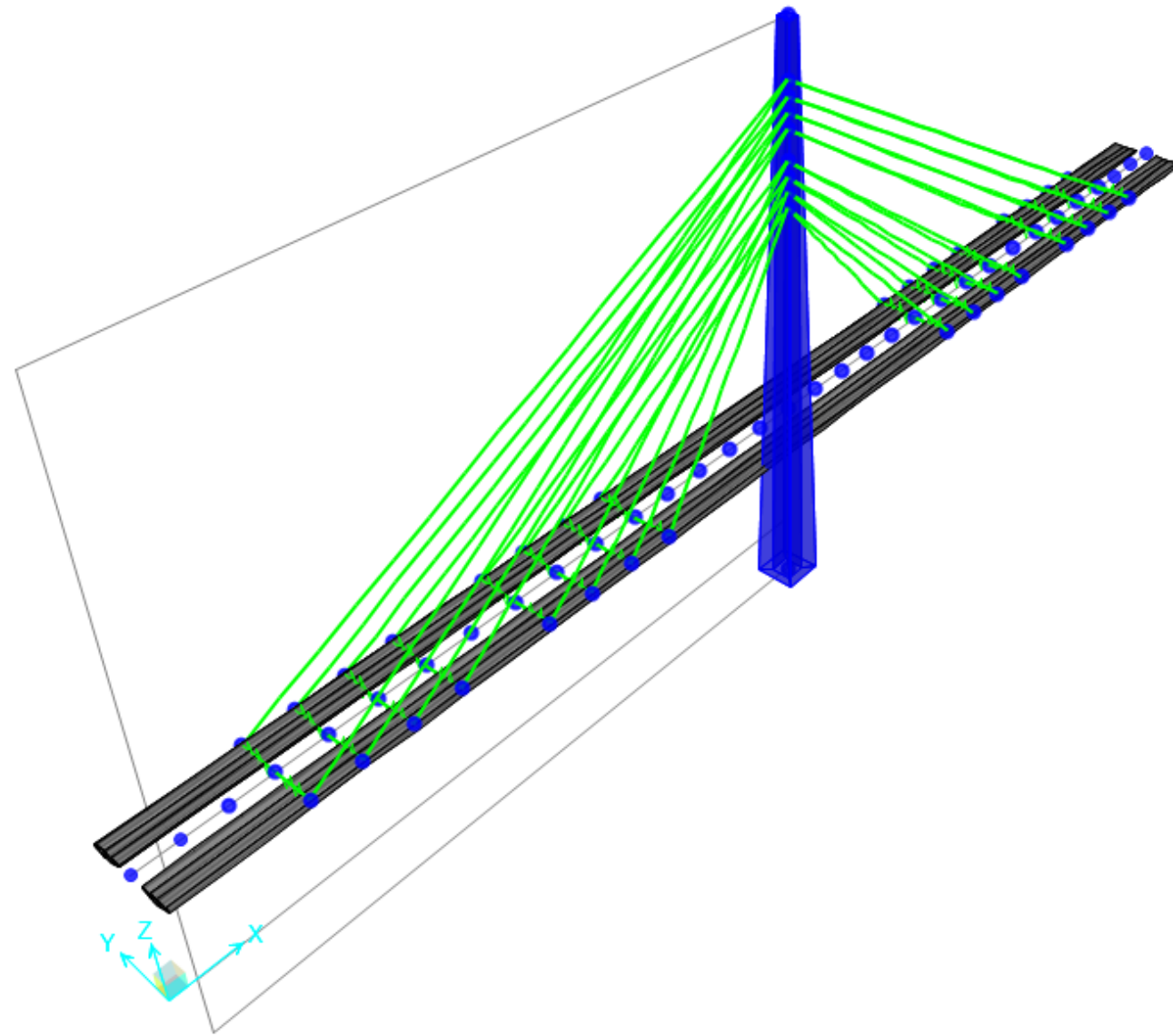
俯視圖

CROSS-SECTION

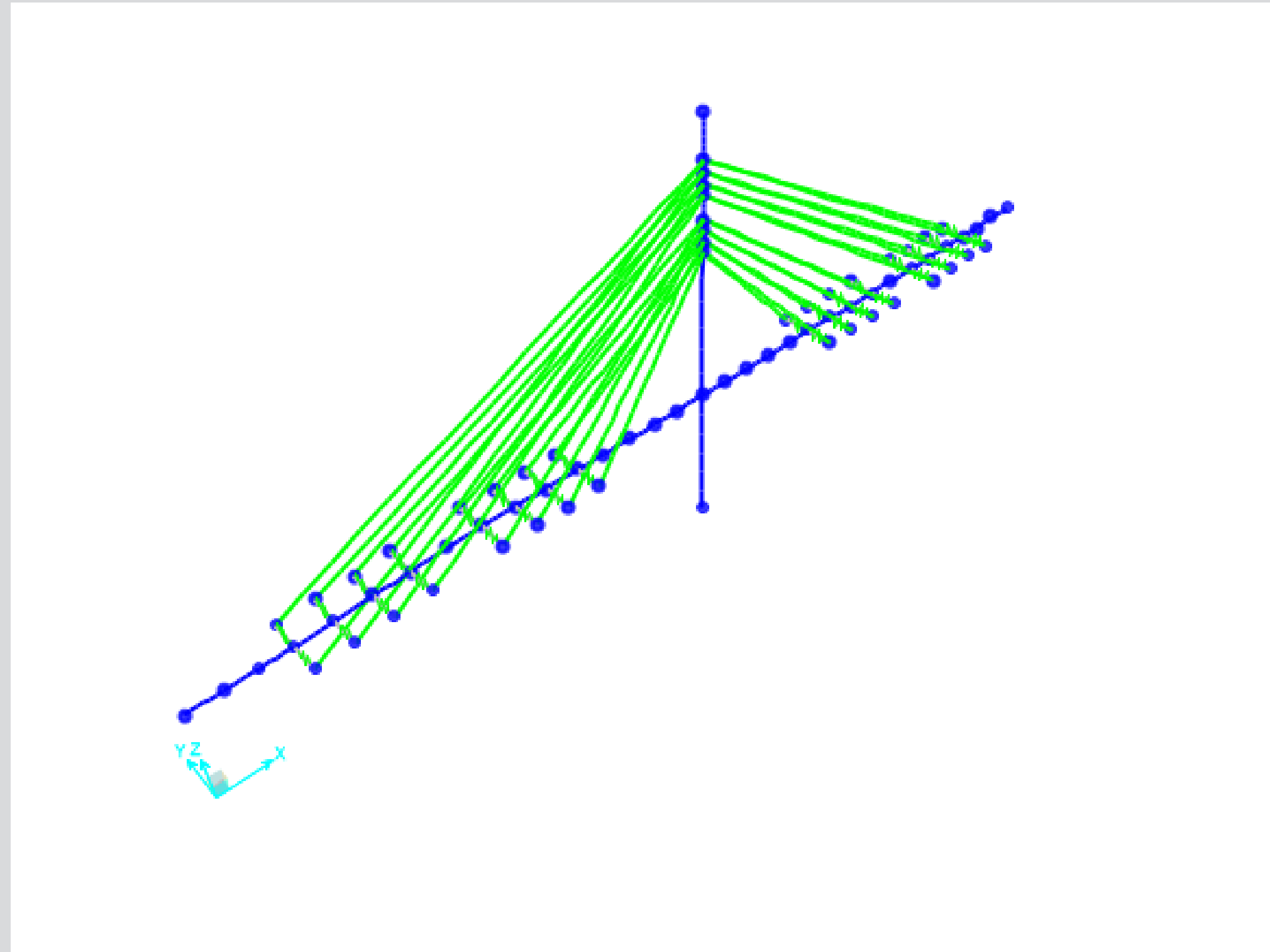


道路斷面圖

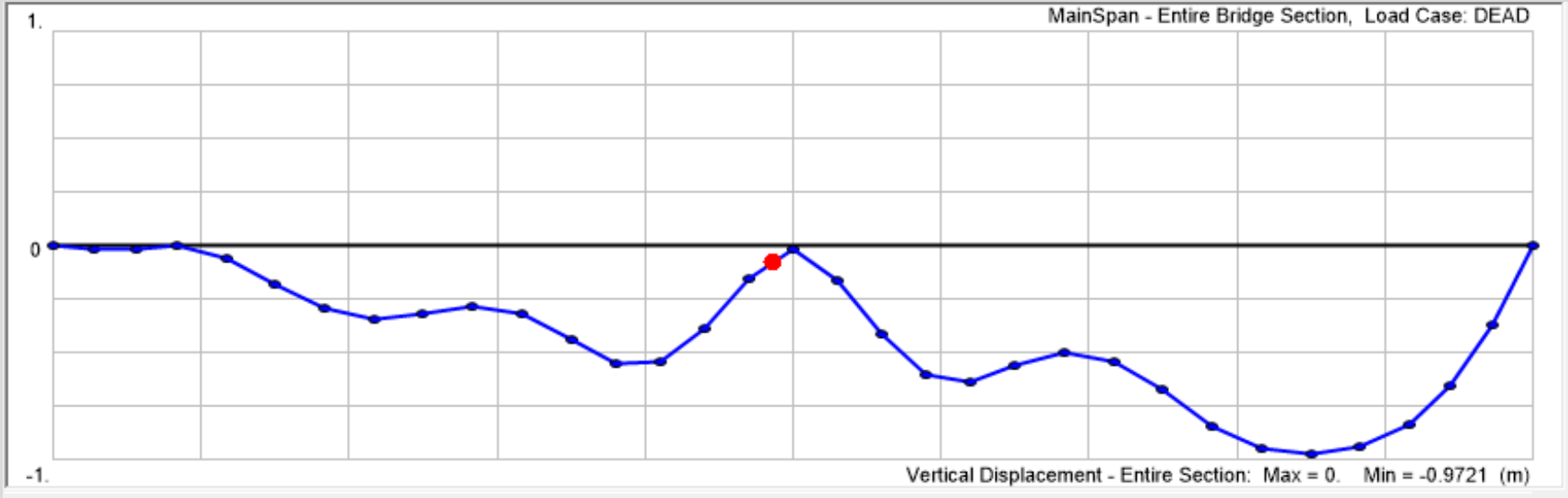
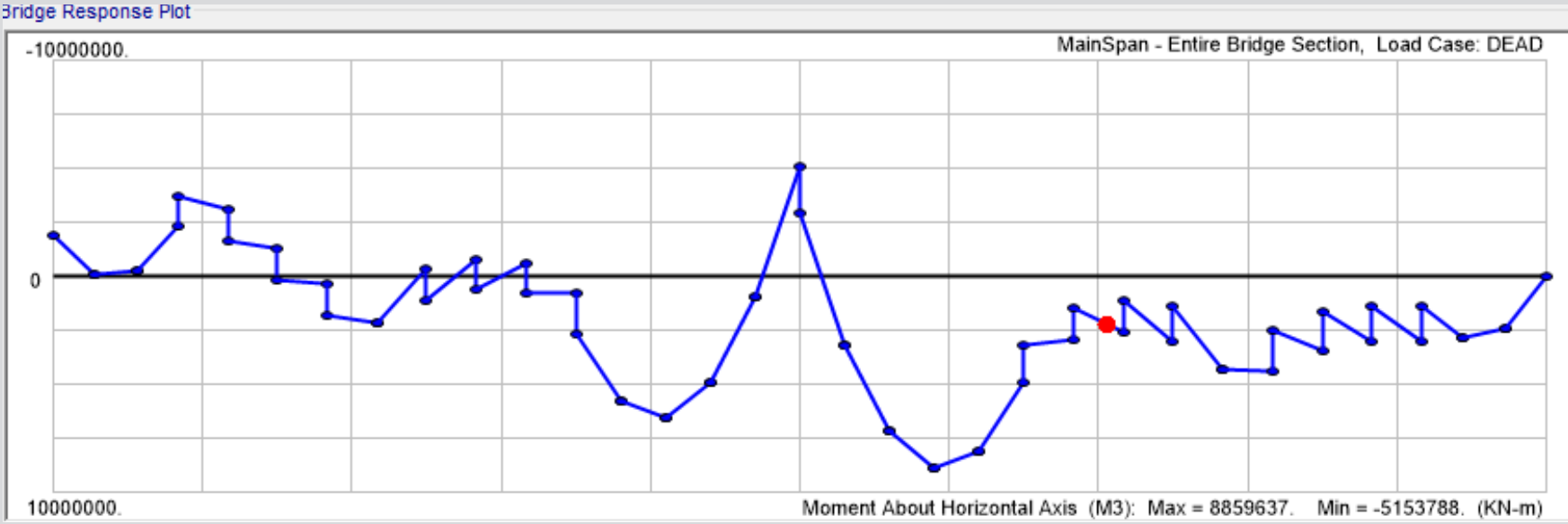
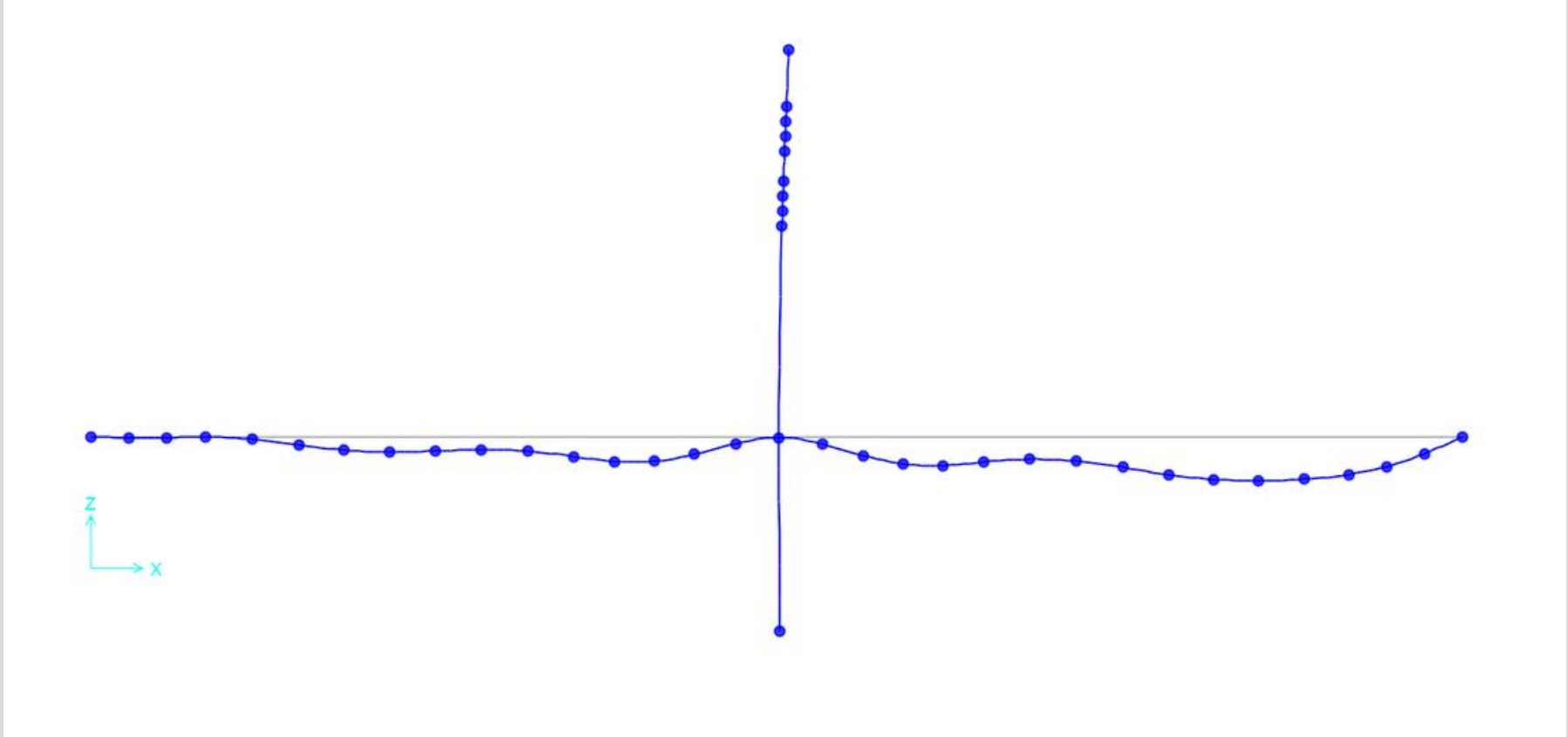
CSI BRIDGE



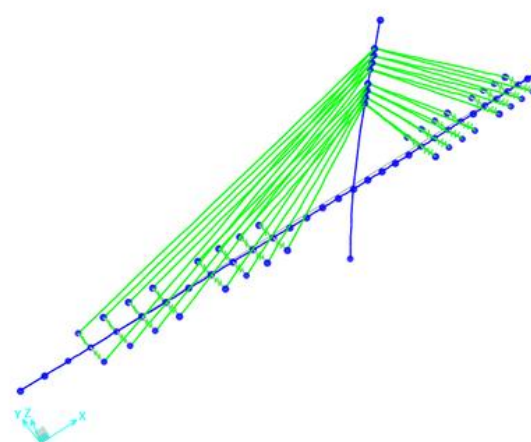
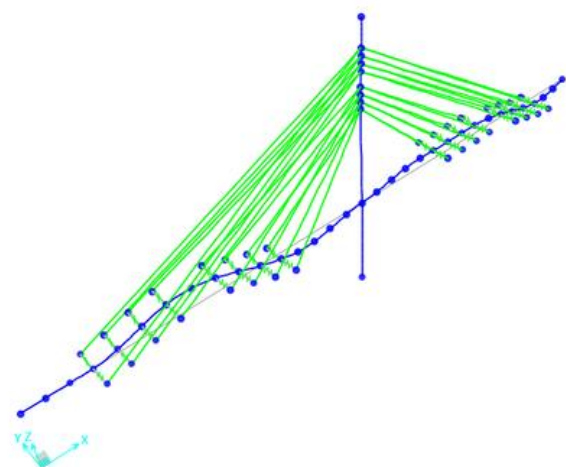
VEHICAL LOAD ANALYSIS



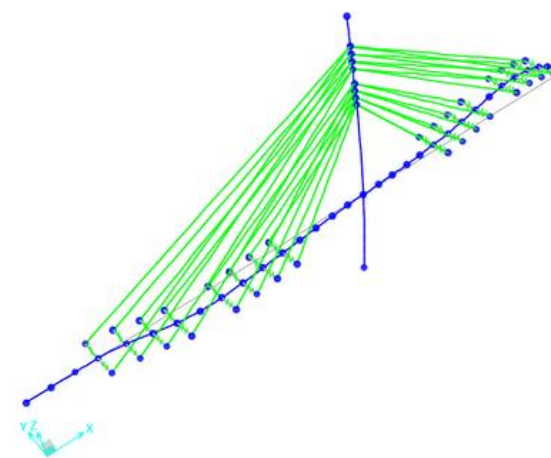
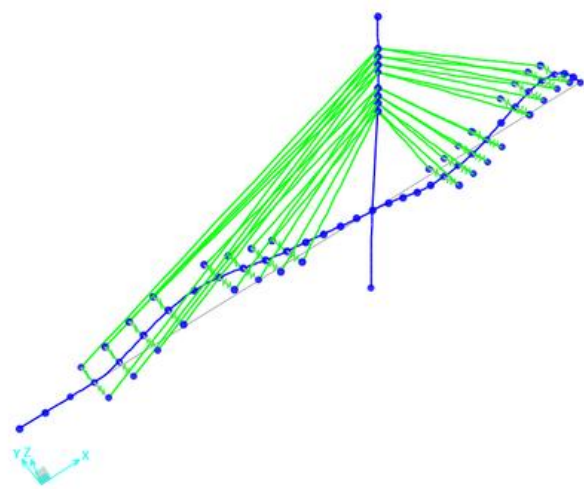
DEADLOAD ANALYSIS



MODAL ANALYSIS

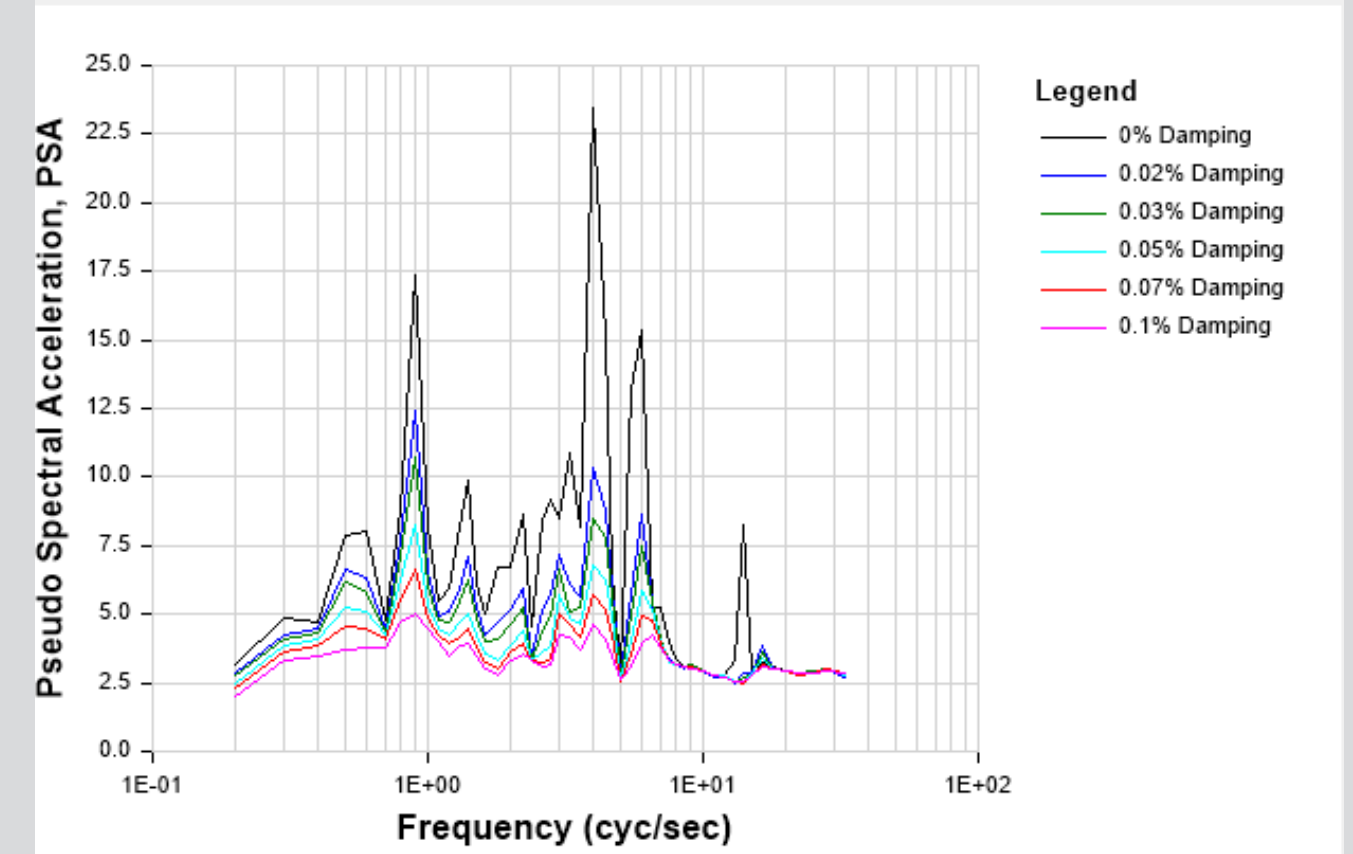
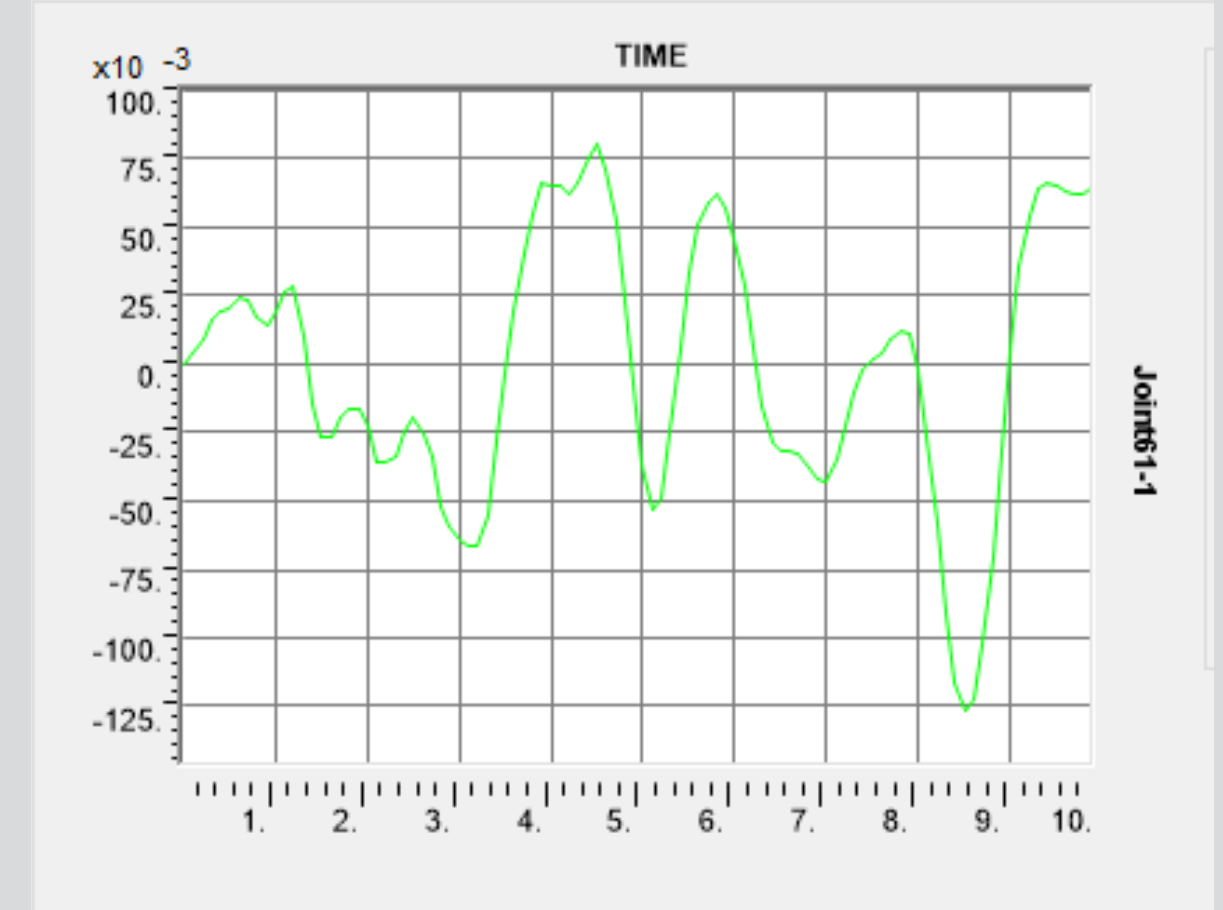


MODAL	Mode	90	0.091144	0.0008	2.62E-06	4.768E-05	0.97835	0.99746	0.99901	4.25E-09
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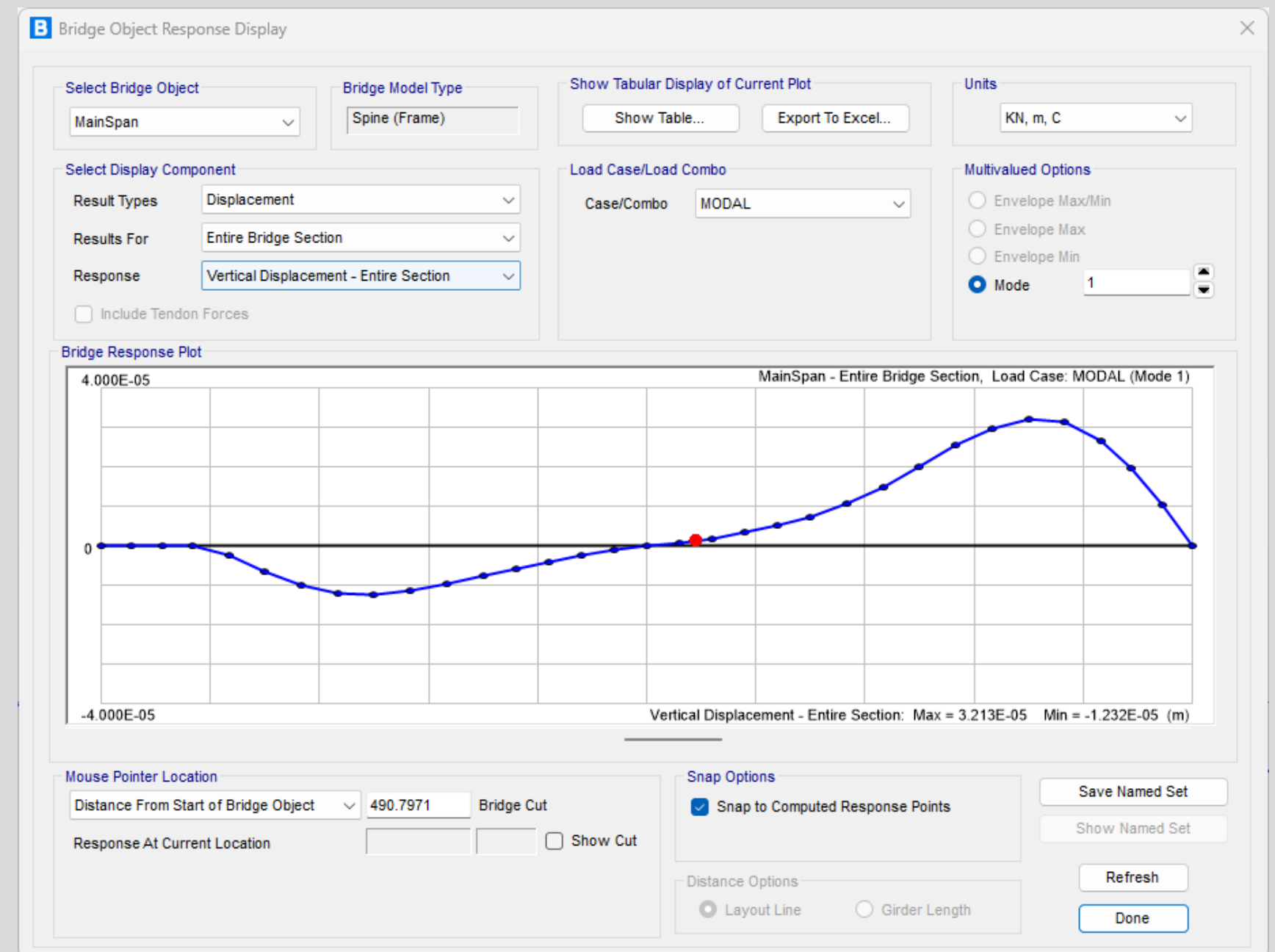
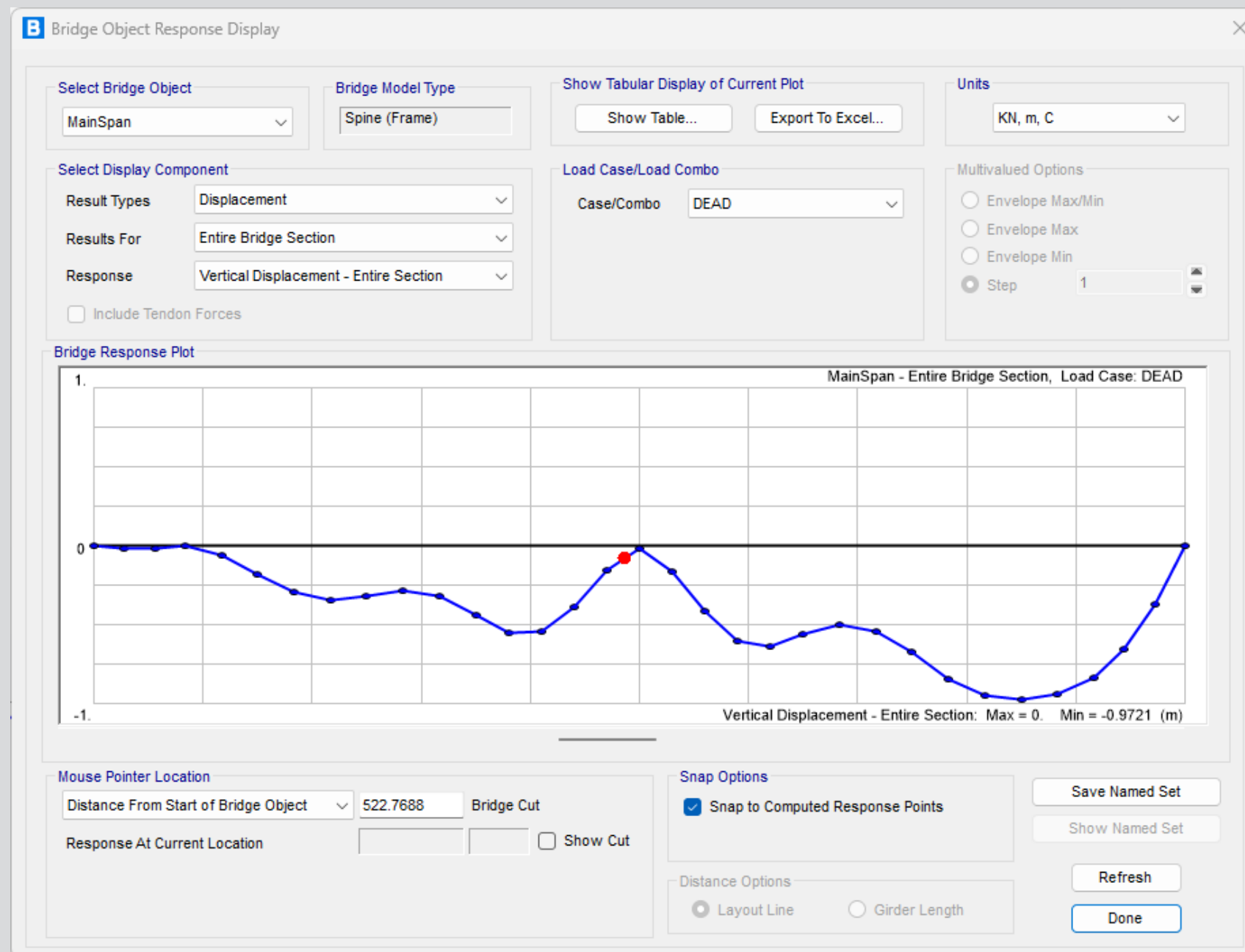


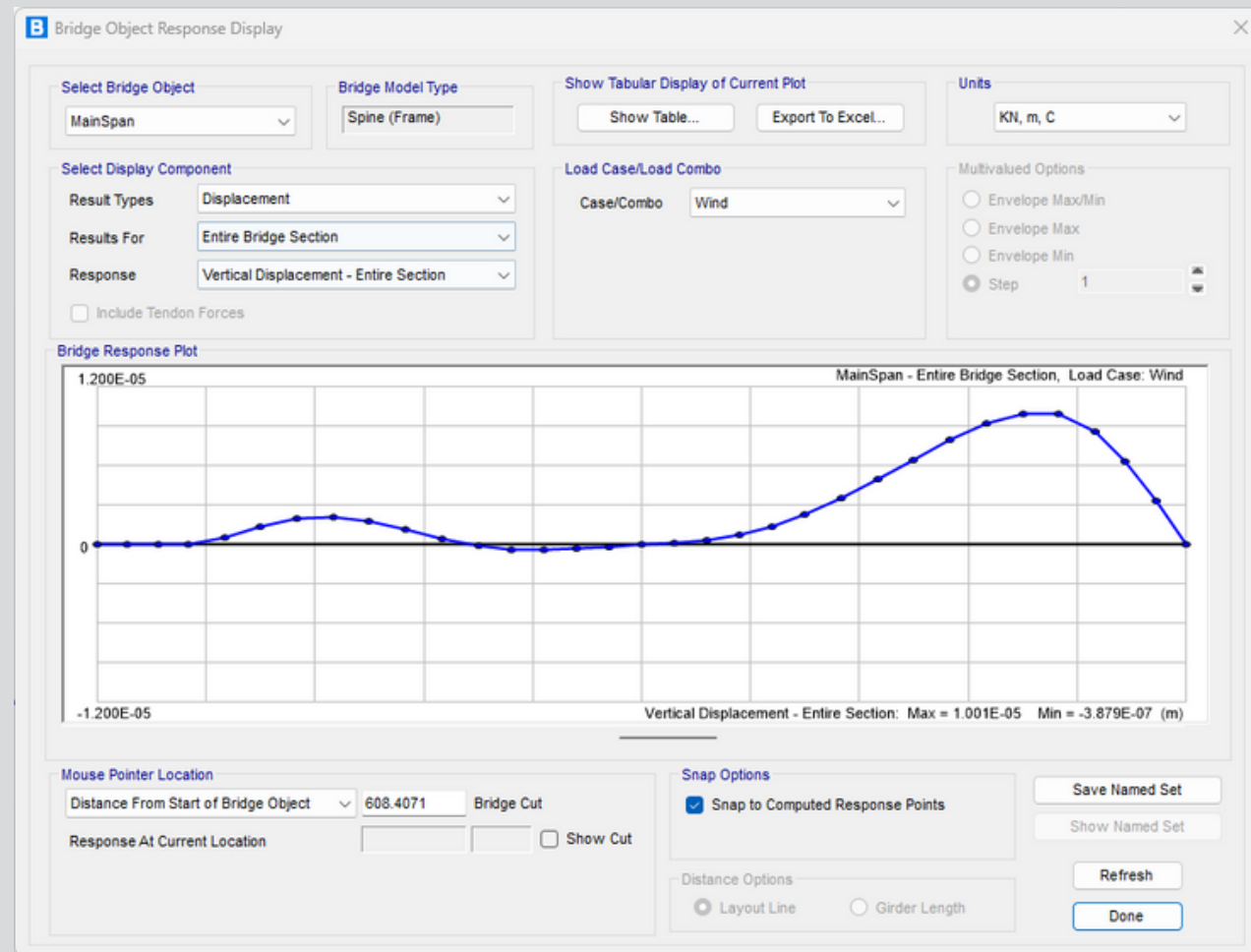
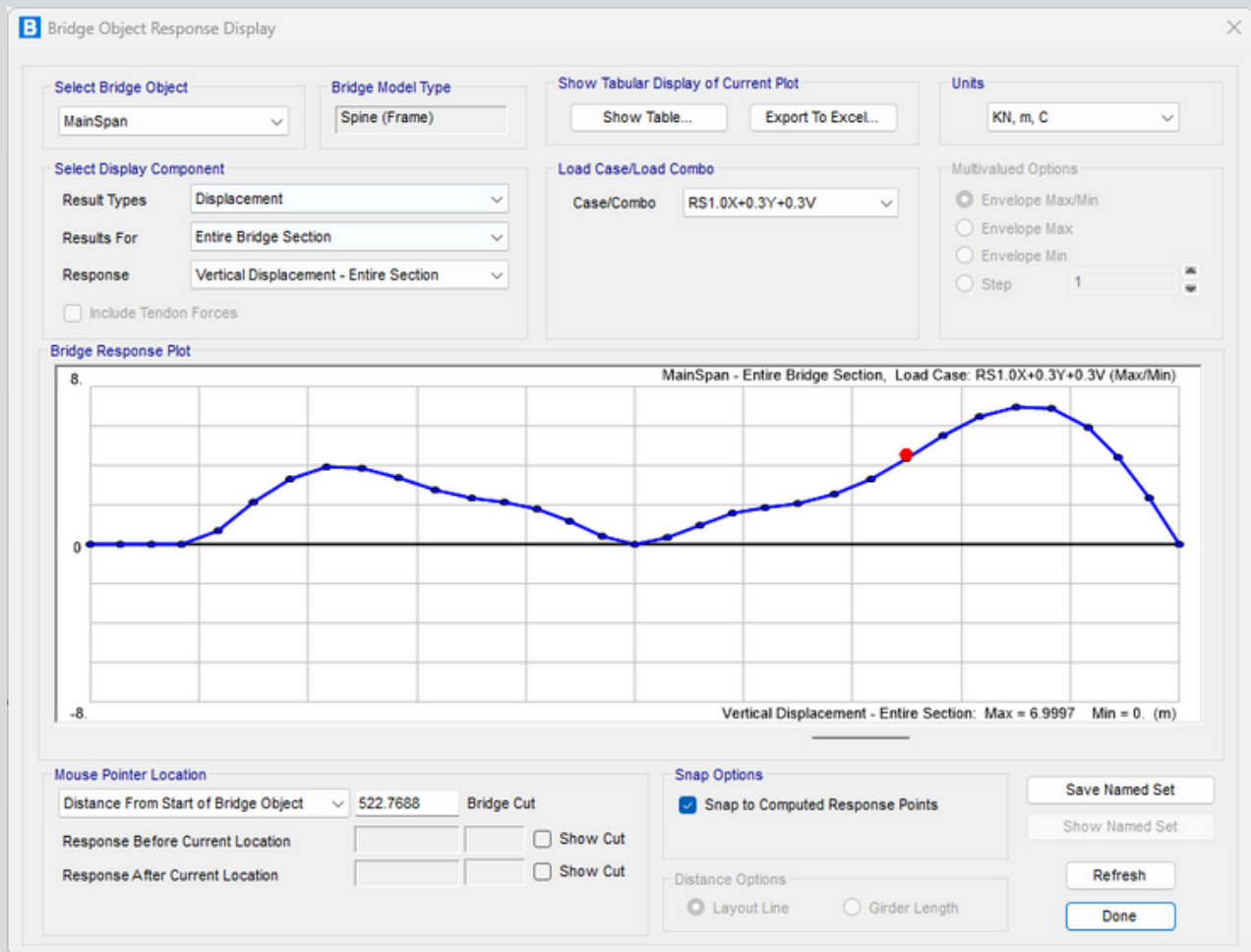
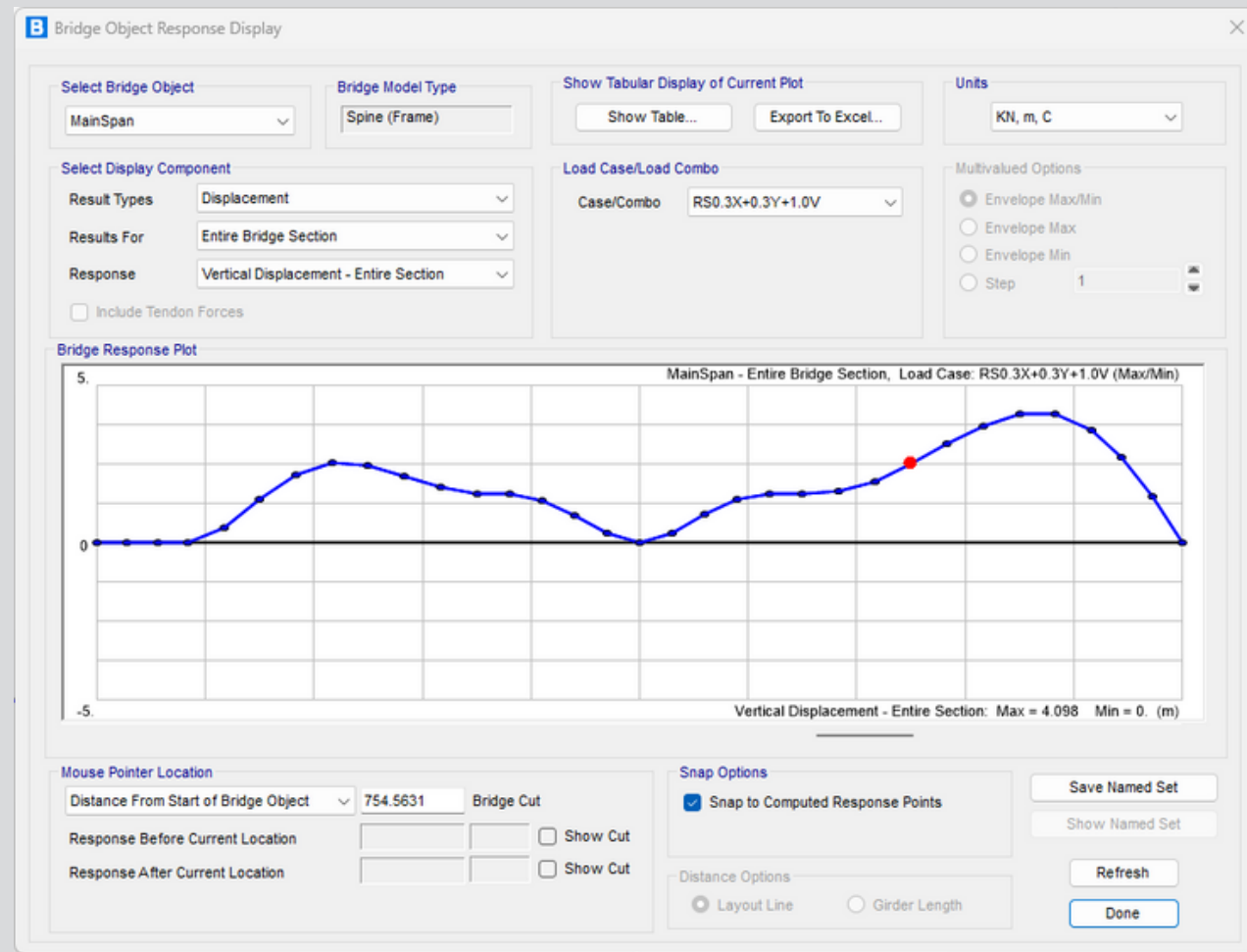
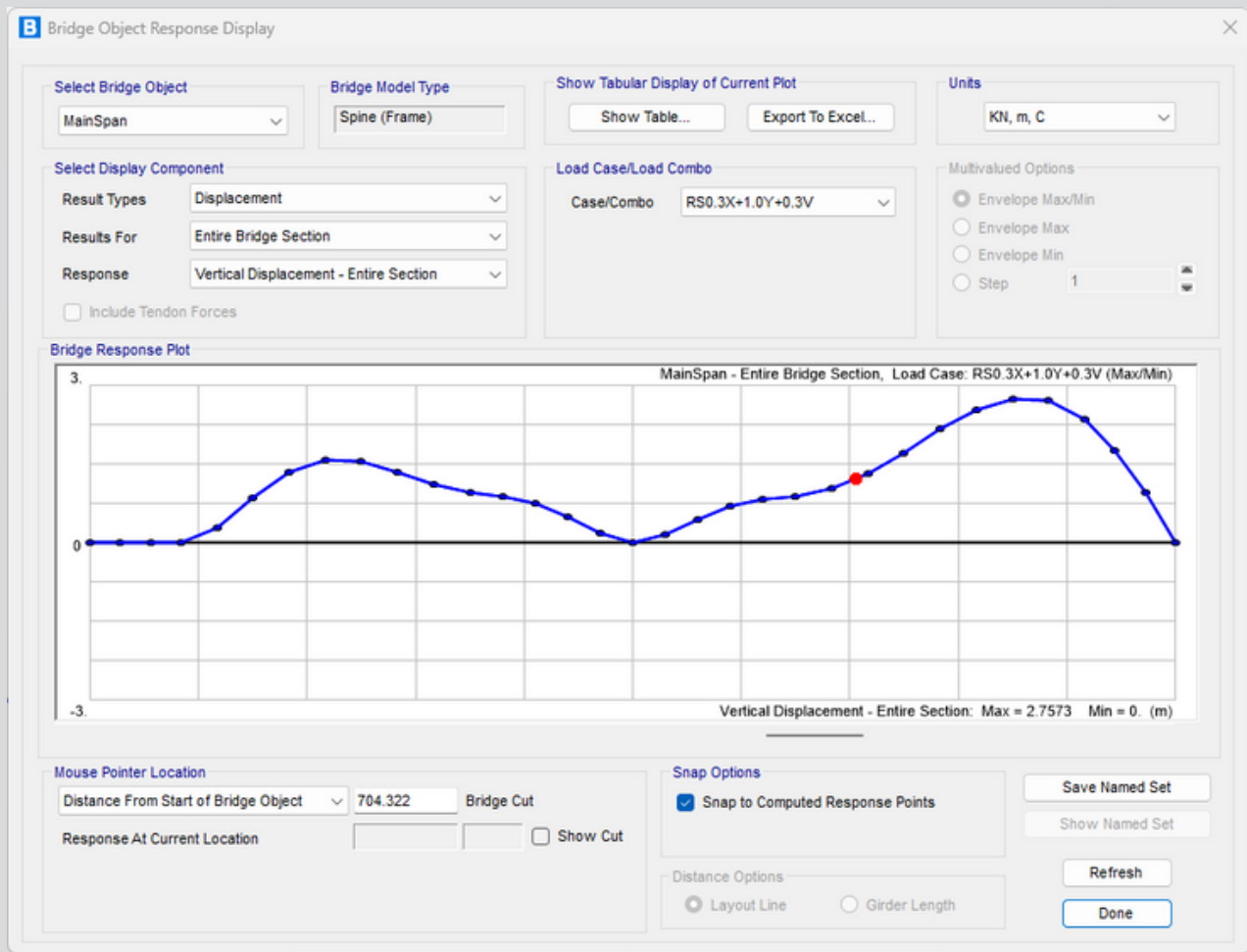
TIME HISTORY ANALYSIS

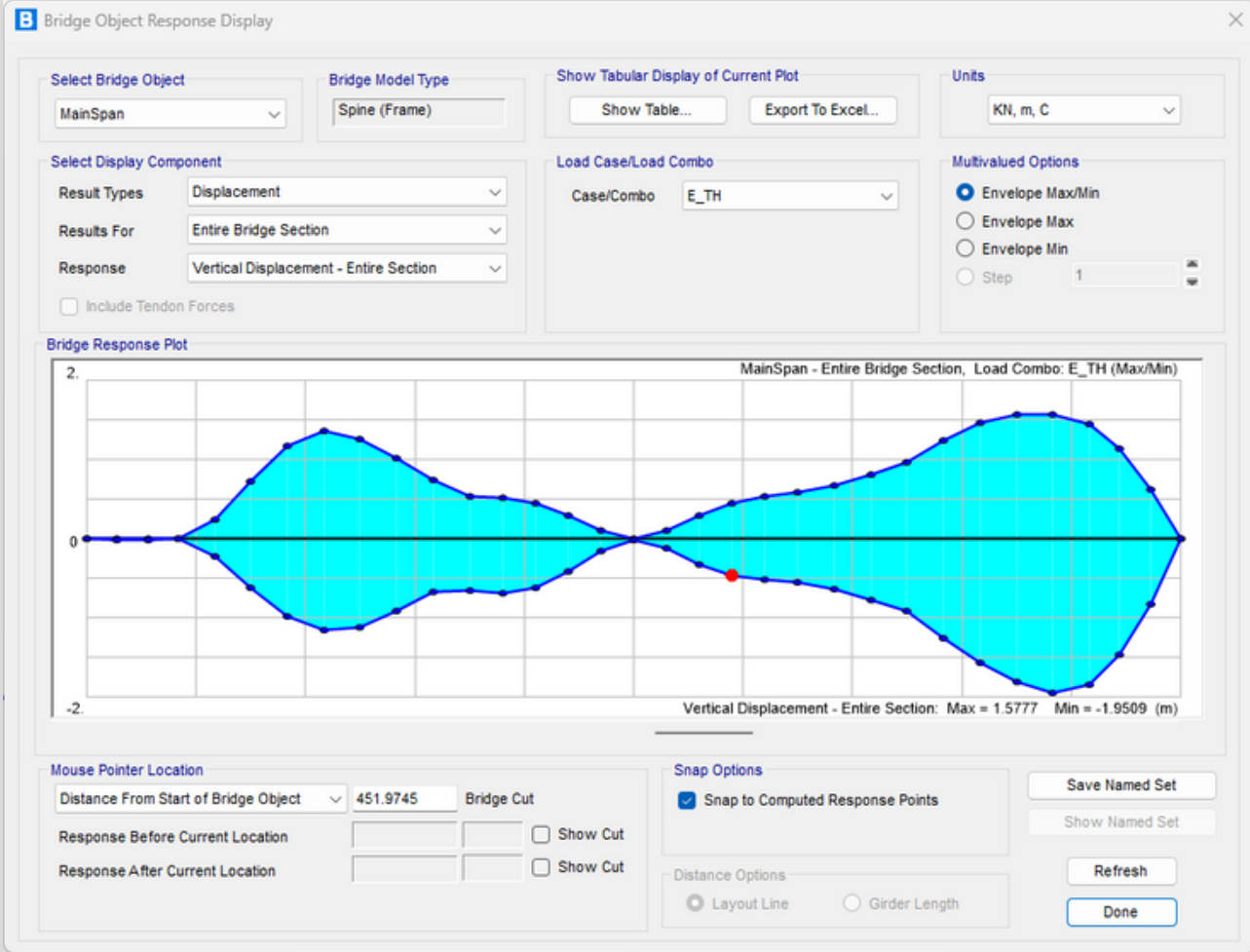
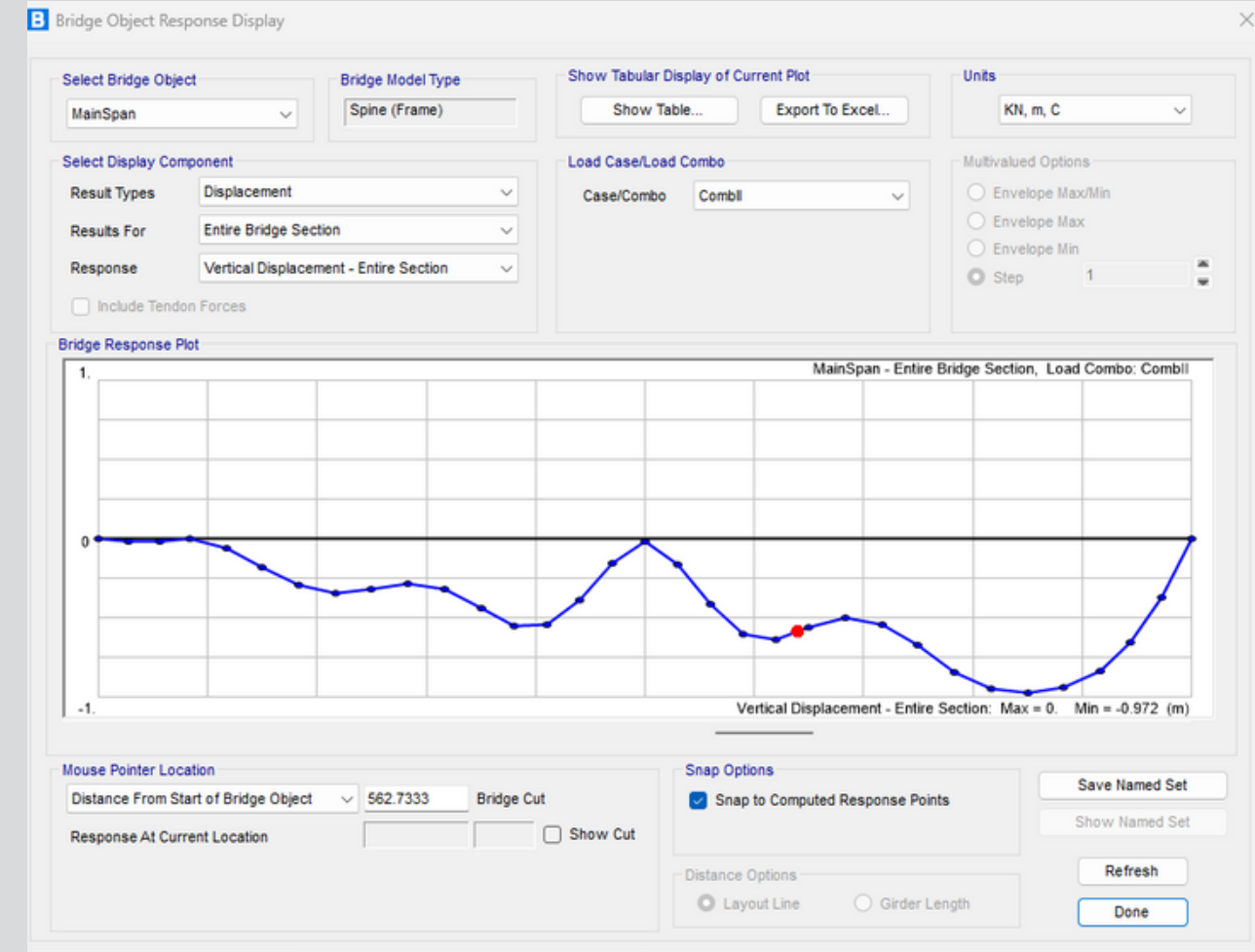
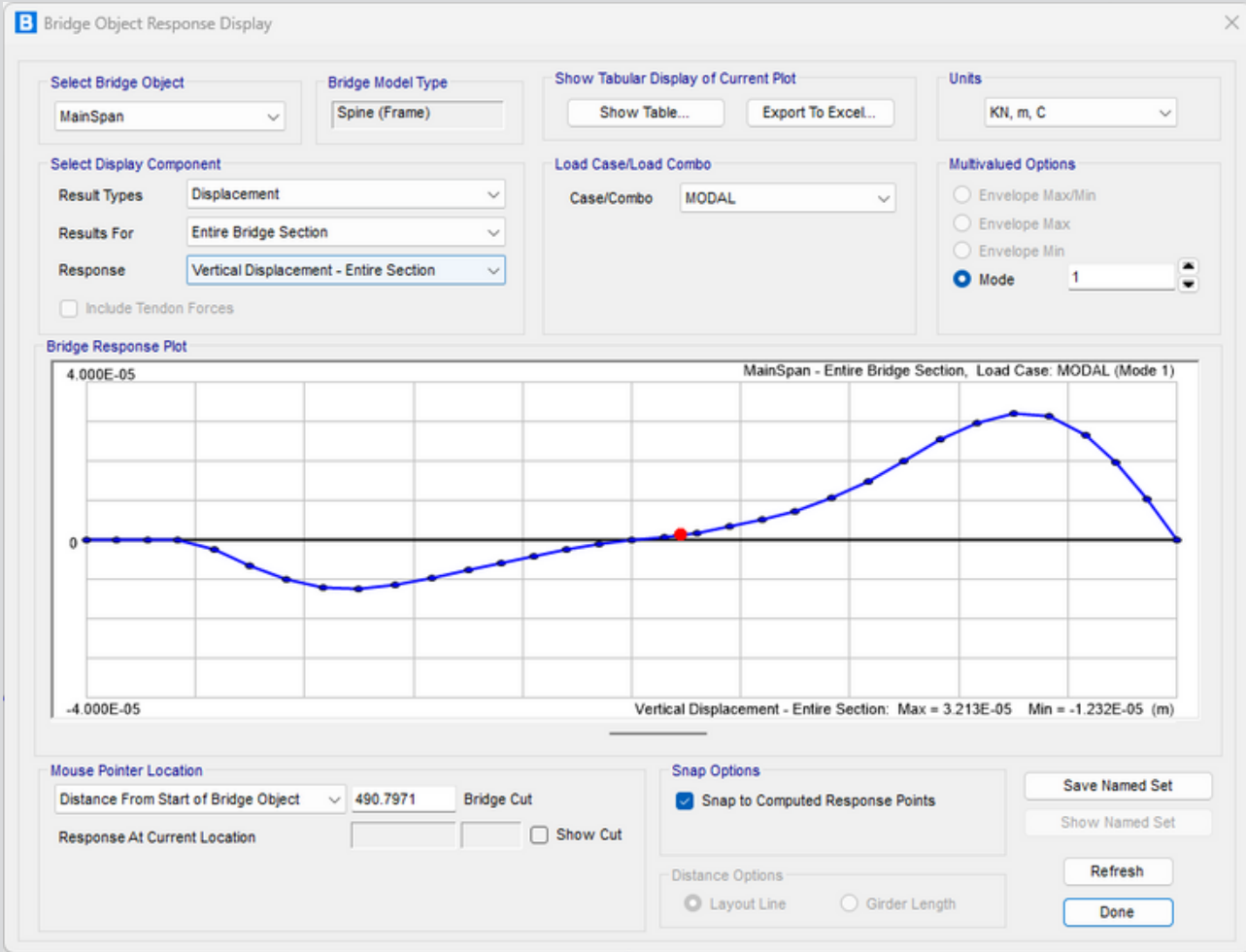
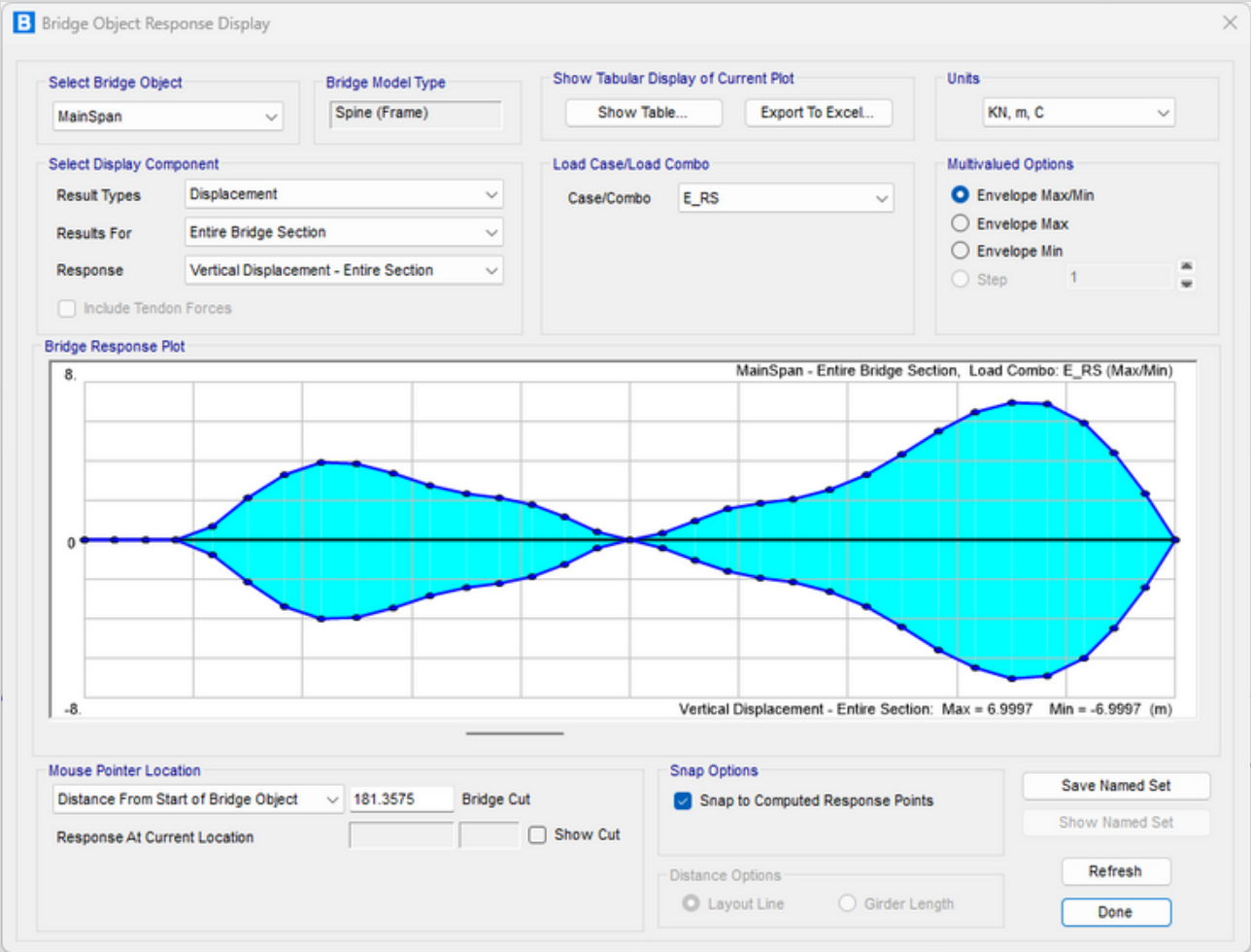
OutputCase	CaseType Text	StepType Text	GlobalFX KN	GlobalFY KN	GlobalFZ KN	GlobalMX KN-m	GlobalMY KN-m	GlobalMZ KN-m	GlobalX m	GlobalY m
CombII	Combination		316750.31	-18490.232	11511792.58	2723696.989	-5308518053	-10498738.6	0	0
CombIA	Combination	Max	3133064942	1326748947	11530000000	96310000000	5196000000...	8503000000...	0	0
CombIA	Combination	Min	-2893584068	-1376688715	-11880000000	-104100000...	-503800000...	-824500000...	0	0
CombIII	Combination	Max	1424120428	603067703	5242982448	43780000000	2362000000...	3865000000...	0	0
CombIII	Combination	Min	-1315265485	-625767598	-5399963353	-473300000...	-229000000...	-374800000...	0	0
E_RS	Combination	Max	3515566.921	8557107.715	3713243.487	1621882010	1795512368	4383106689	0	0
E_RS	Combination	Min	-3515566.9	-8557107.7	-3713243.5	-1621882010	-1795512368	-4383106689	0	0
CombVII_EQrs	Combination	Max	3515566.921	8557107.715	3713243.487	1621882010	1795512368	4383106689	0	0
CombVII_EQrs	Combination	Min	-3515566.9	-8557107.7	-3713243.5	-1621882010	-1795512368	-4383106689	0	0
E_TH	Combination	Max	2001785.702	1987079.831	3524037.539	344594883	2031141592	1066605942	0	0
E_TH	Combination	Min	-1633649.32	-2787504.65	-4408387.1	-360474442	-1607824029	-1442097786	0	0

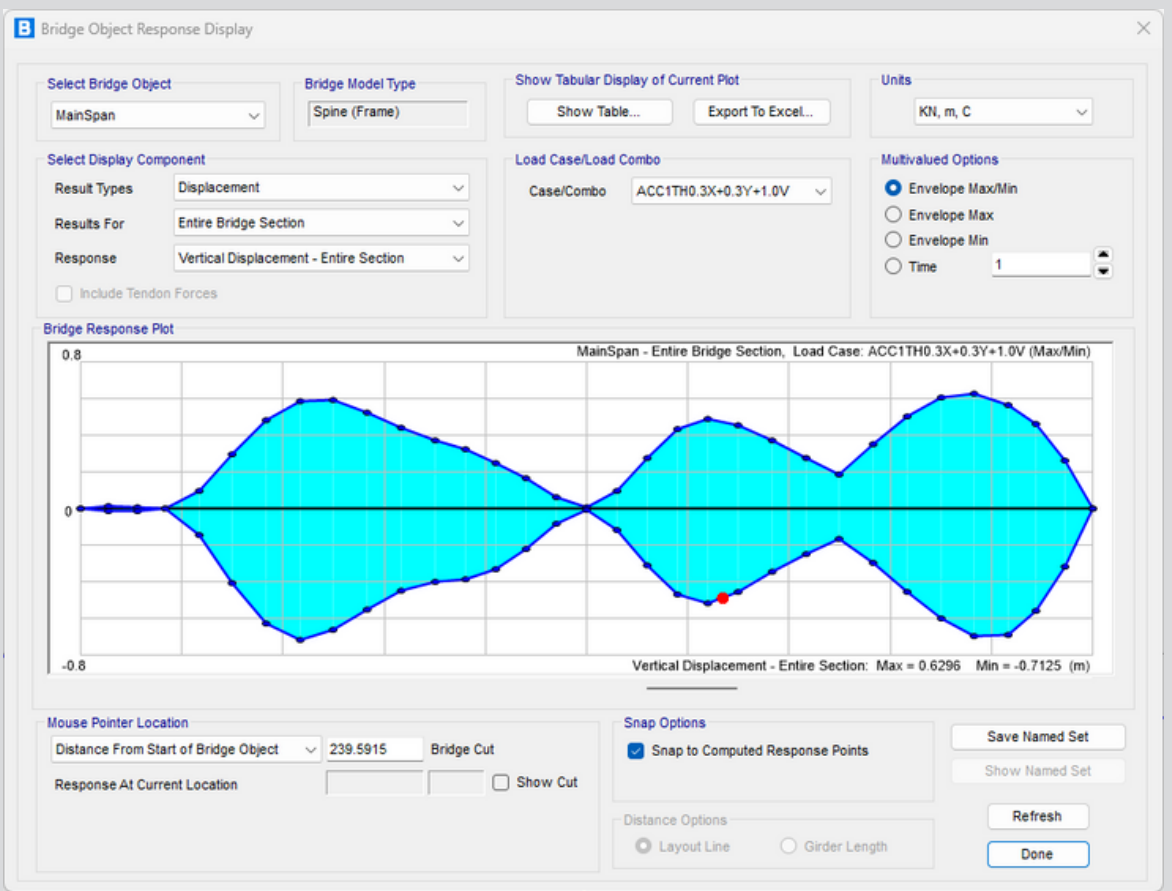
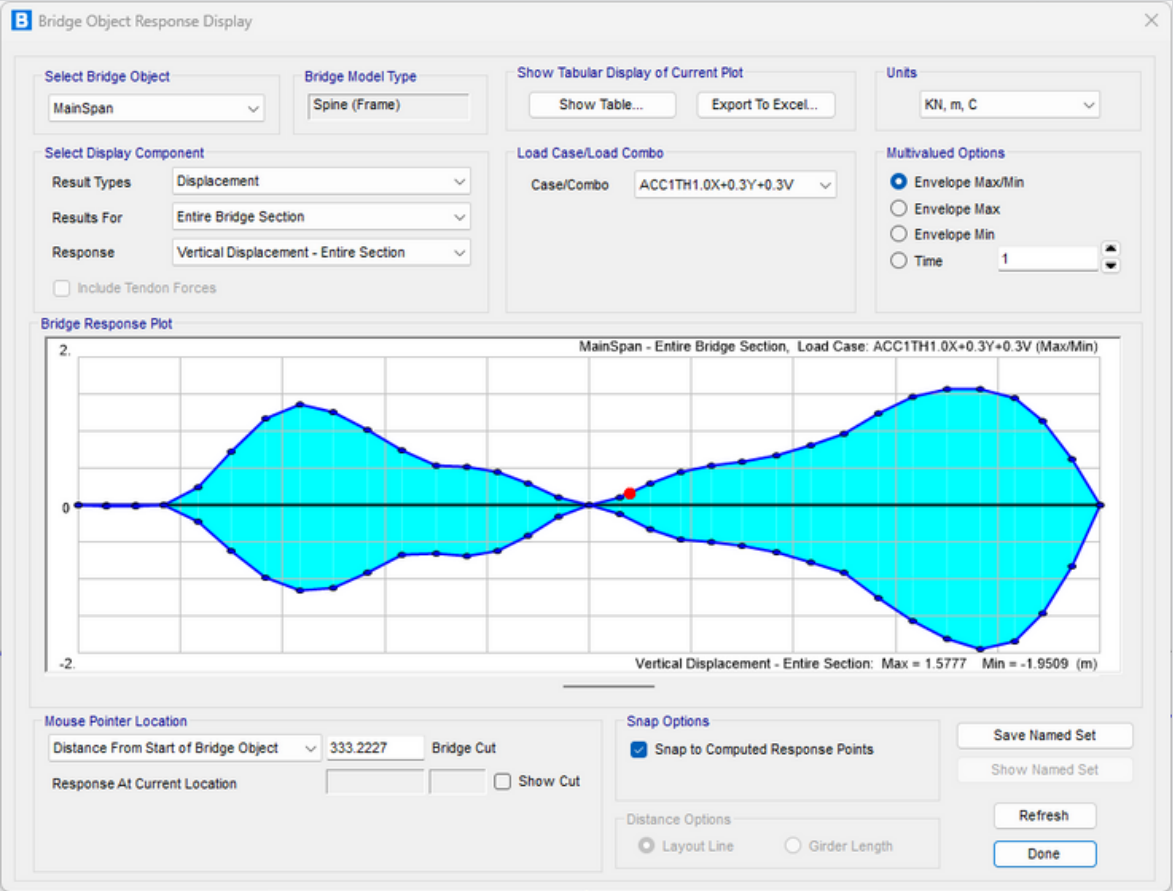
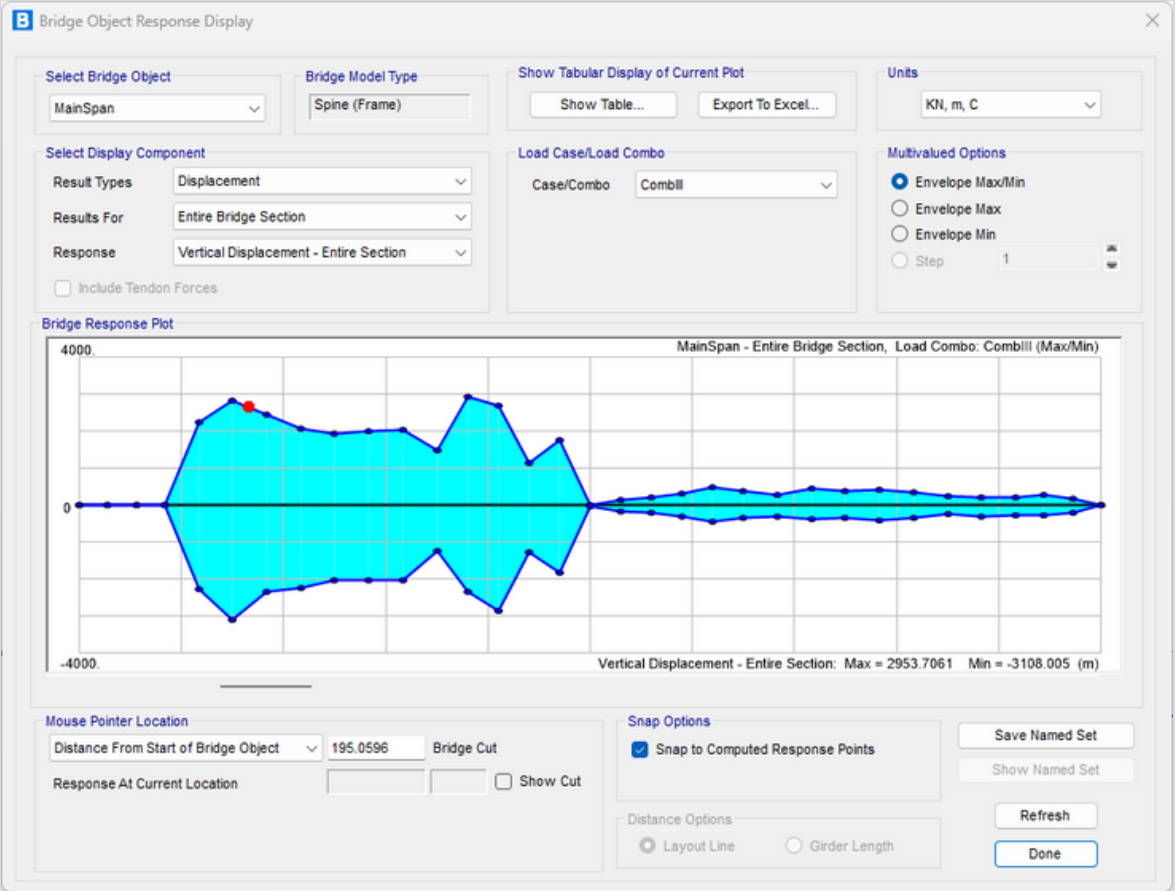
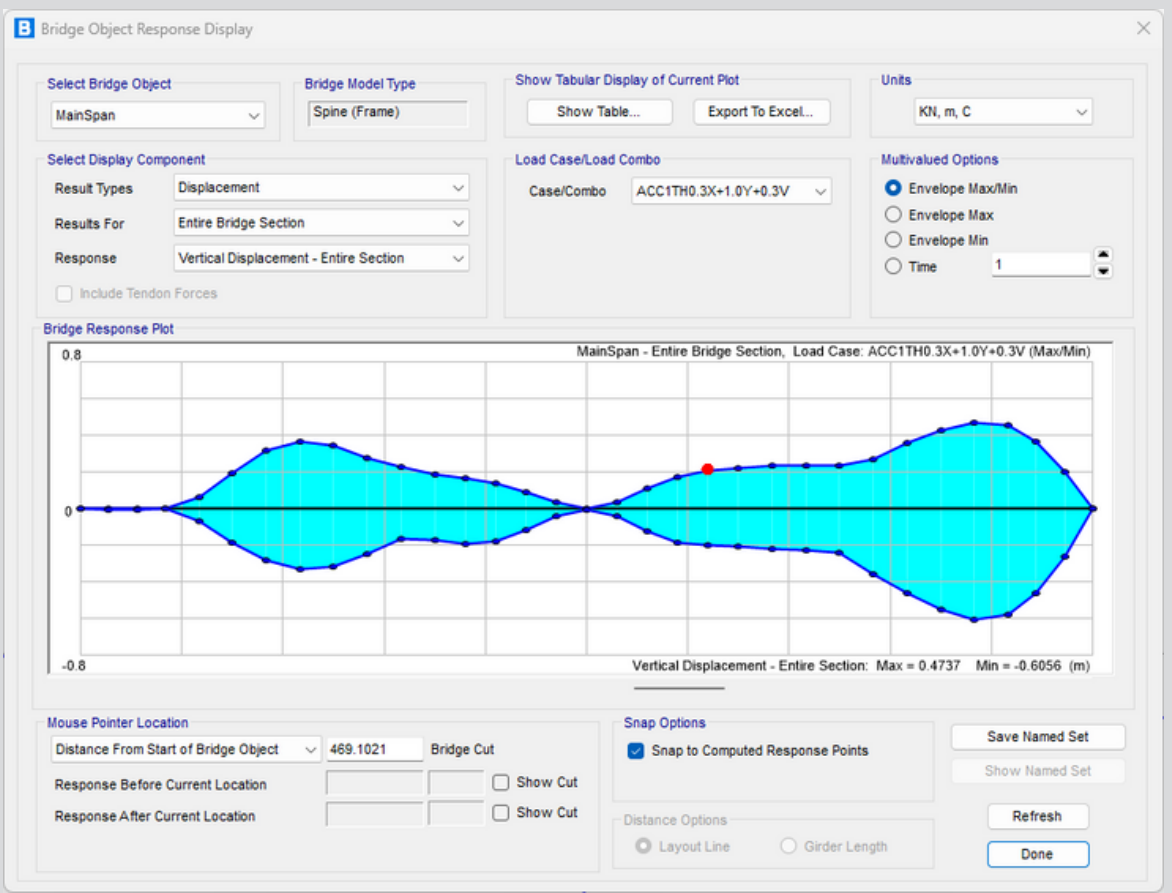
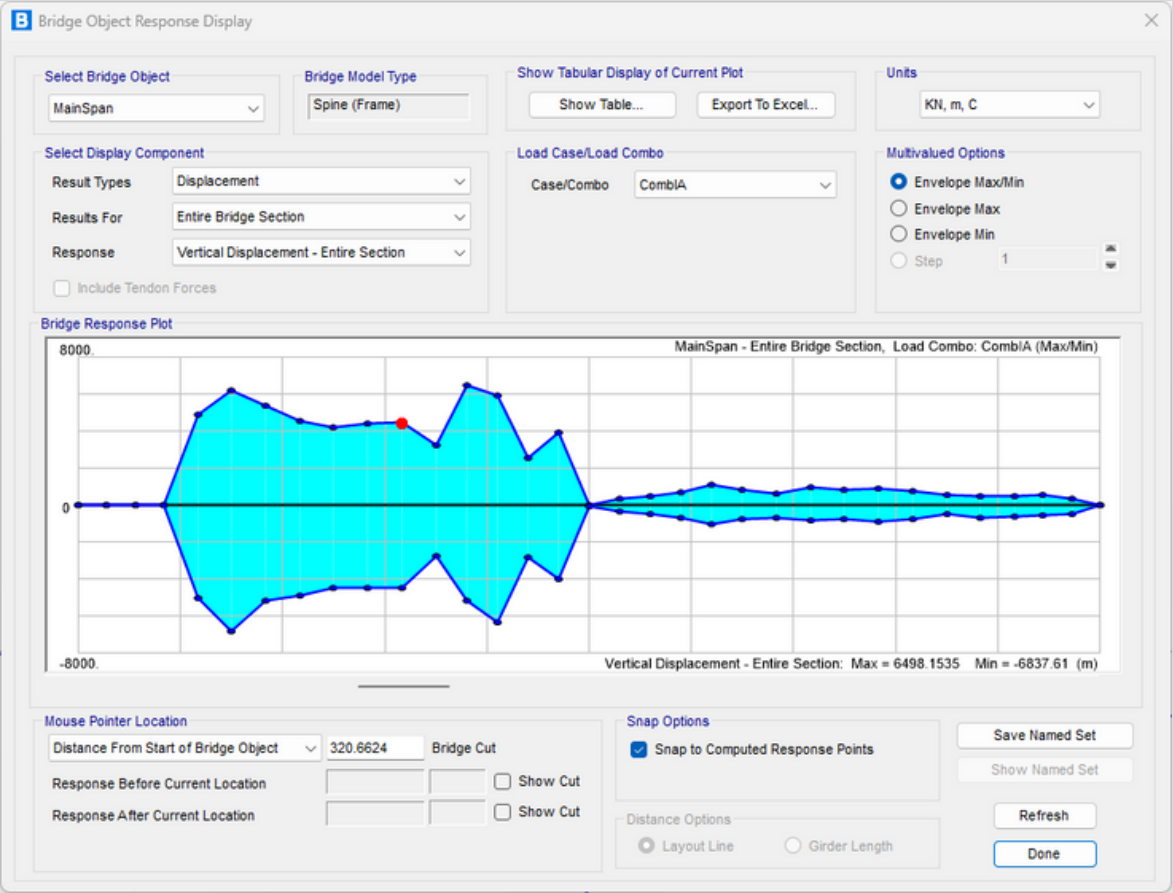
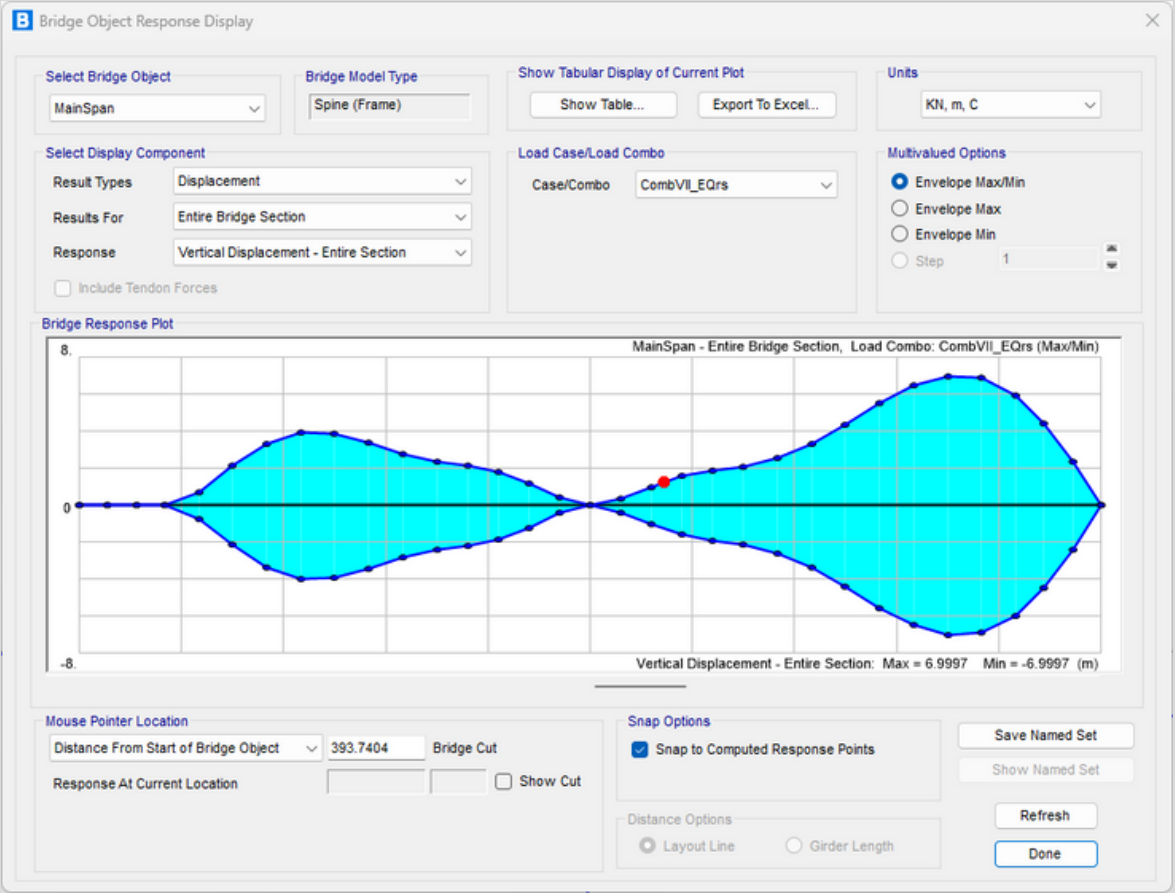


DISPLACEMENT IN EVERY COMBO/BASE

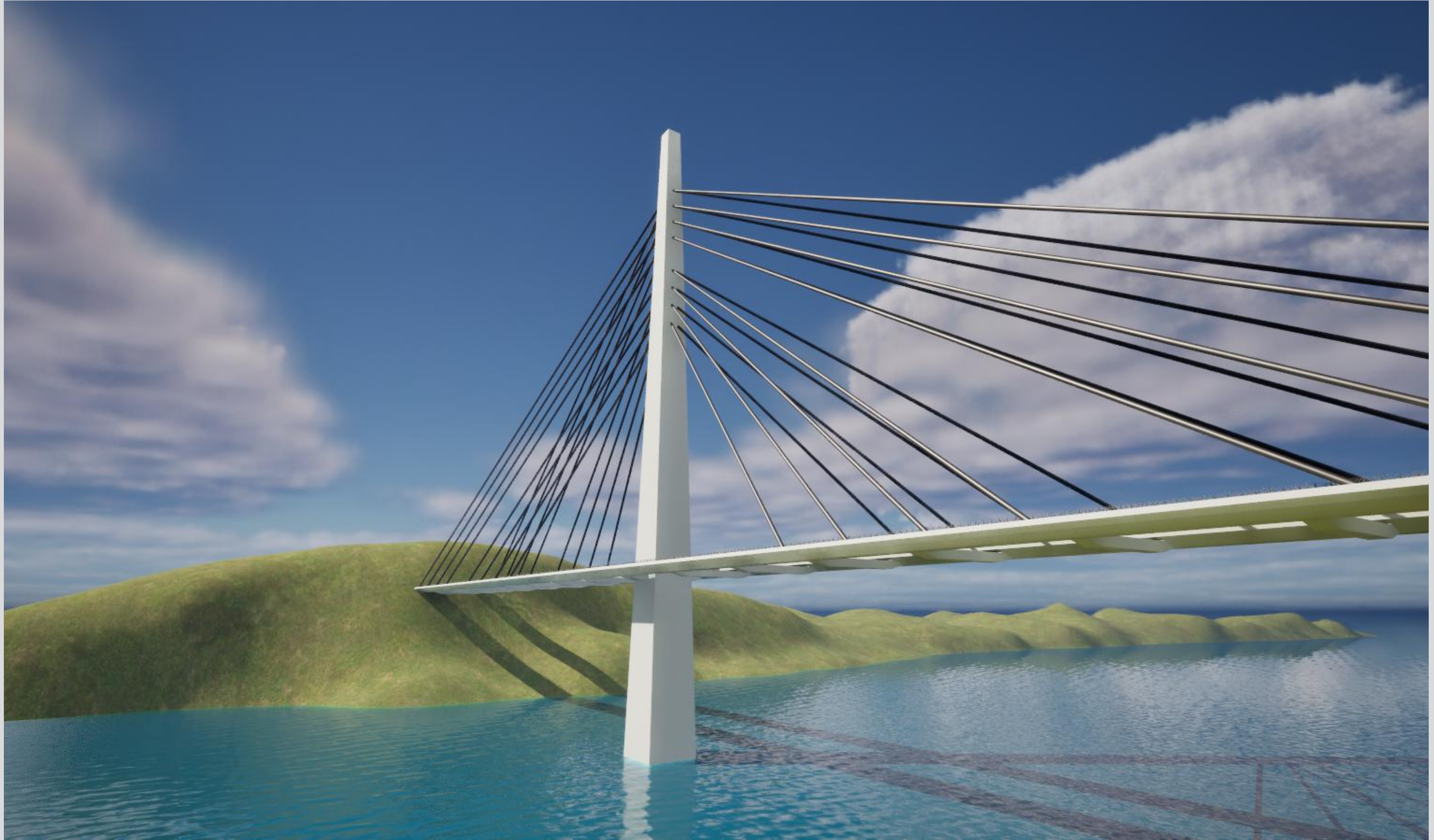




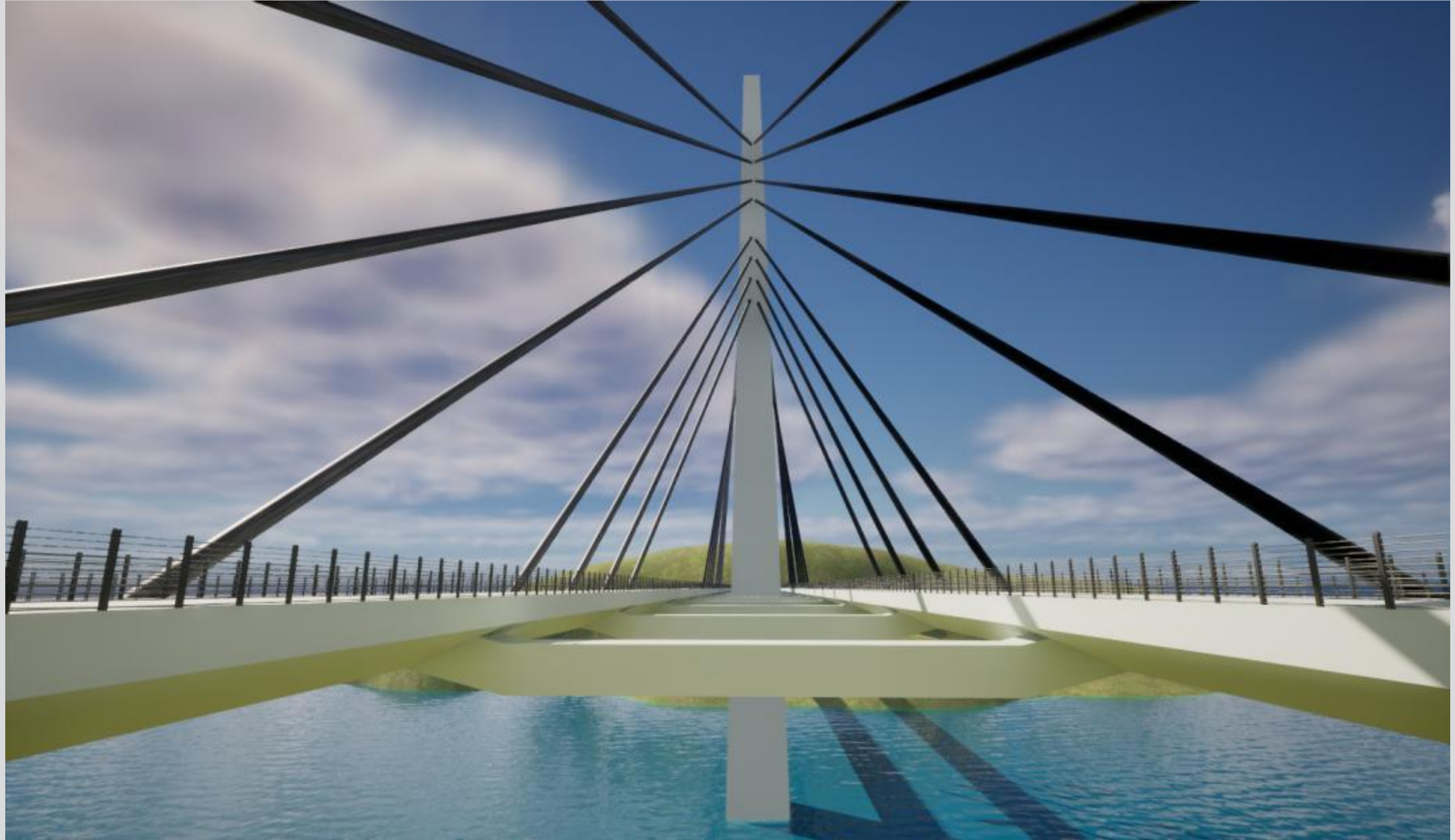


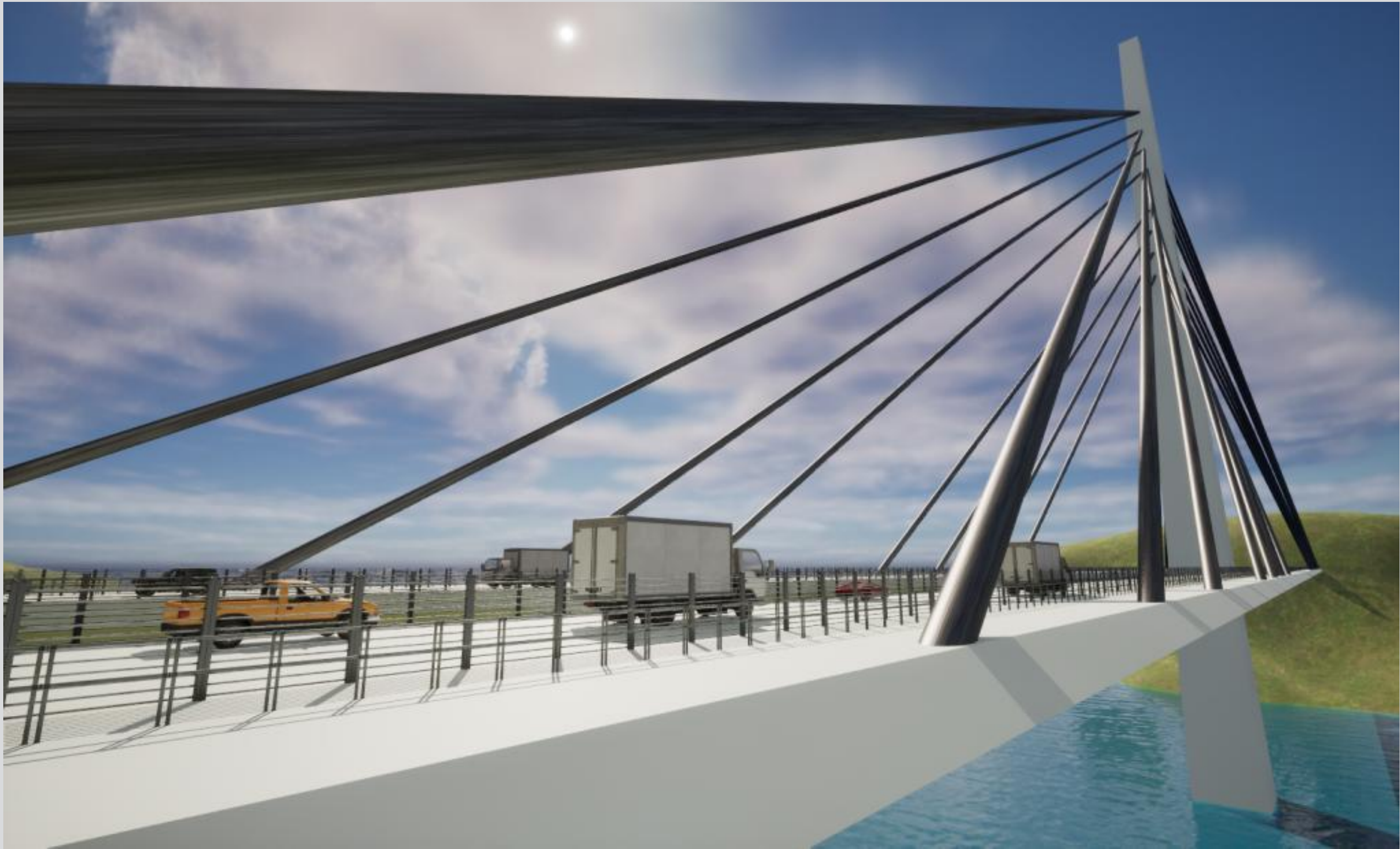


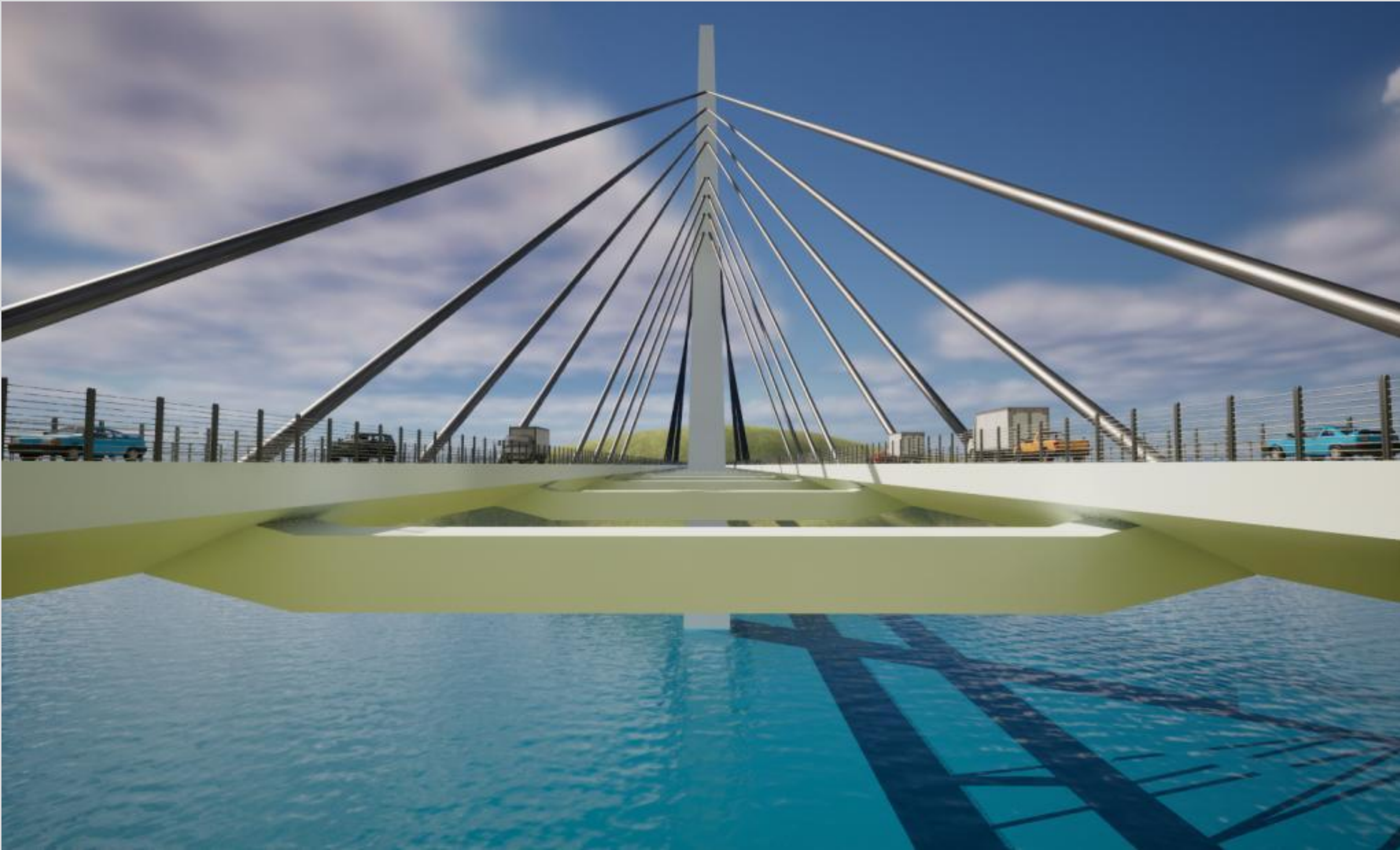
3D MODEL

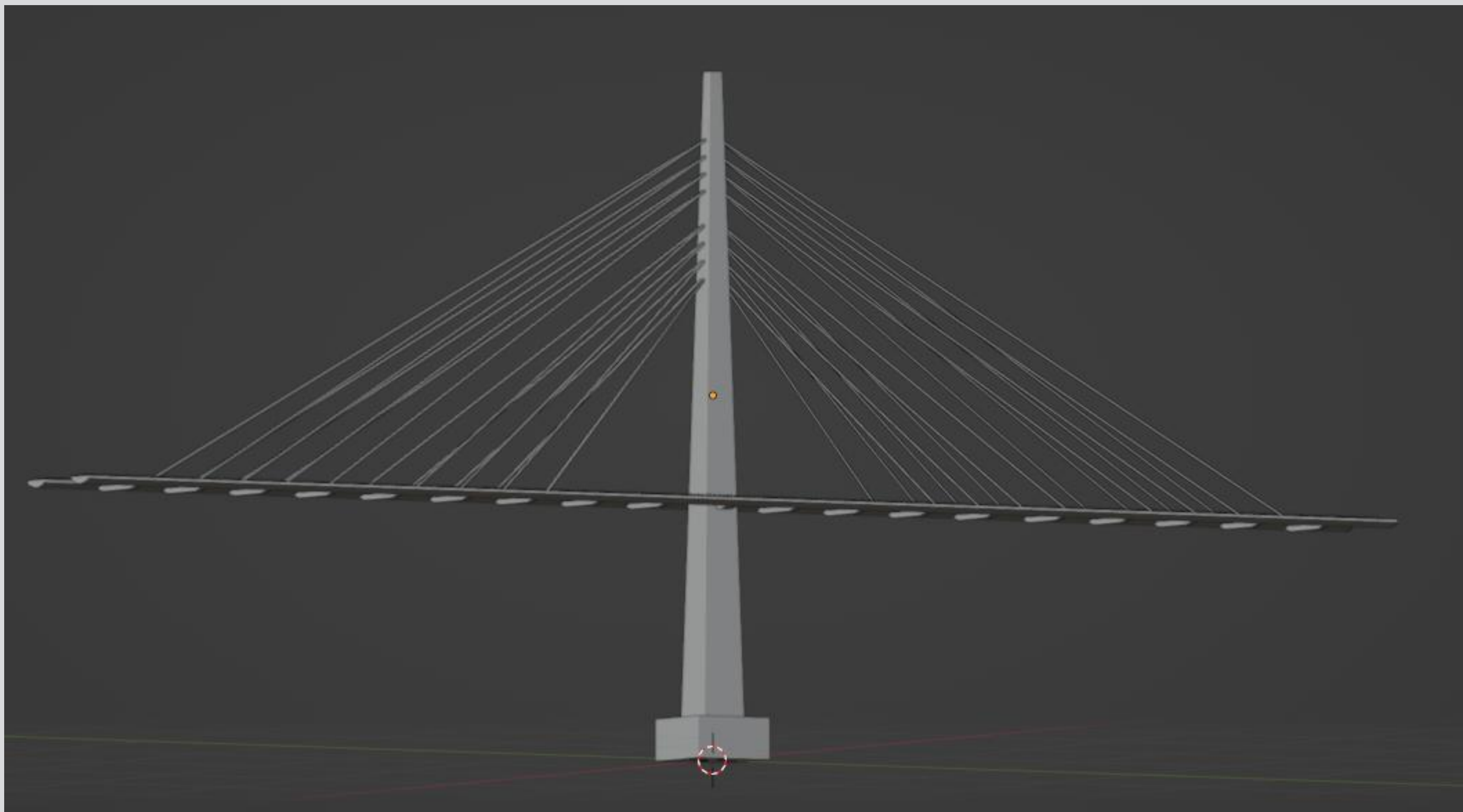




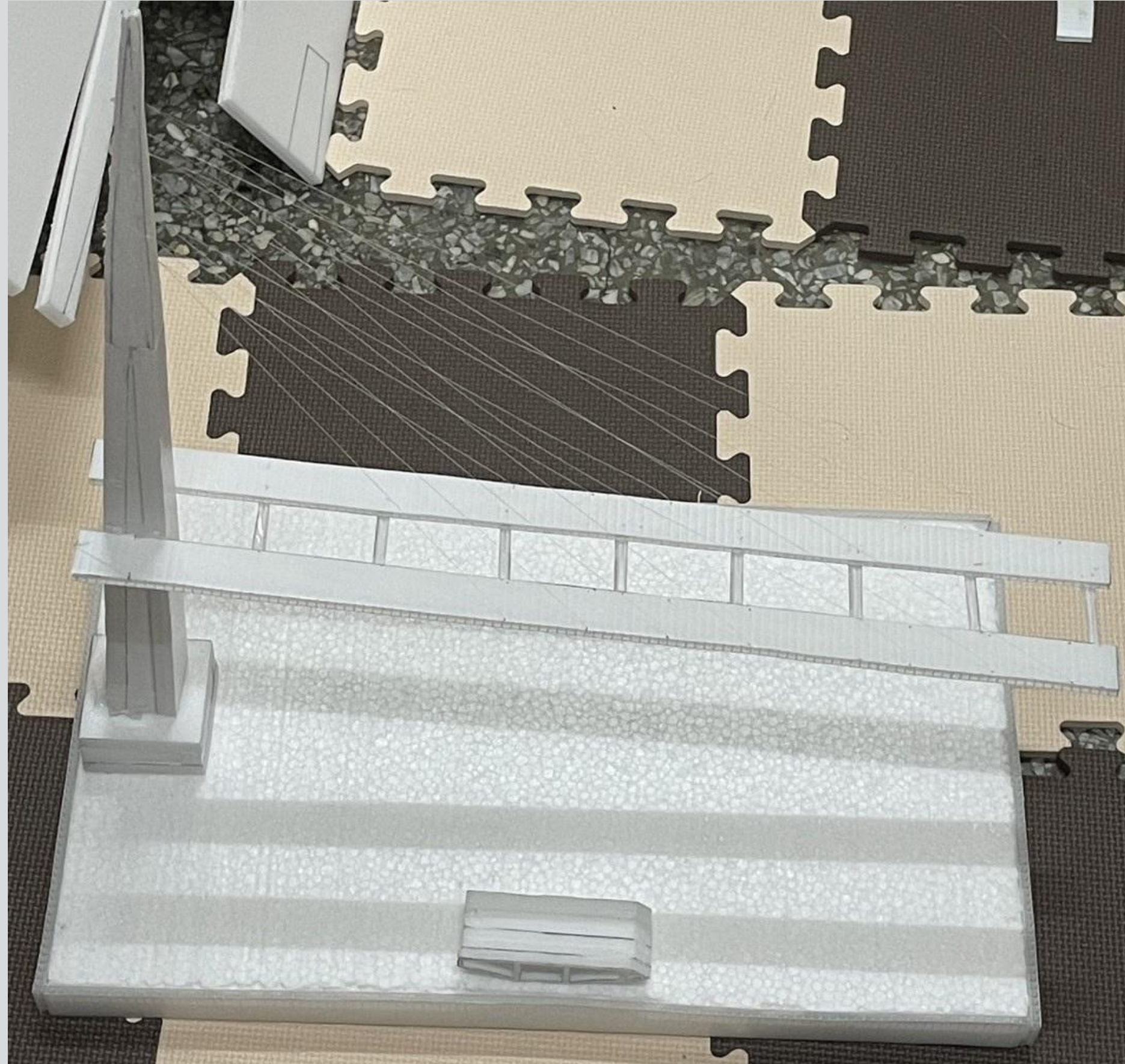








PHYSICAL MODEL



THANK YOU