HORIZONTAL / VERTICAL CONTROL DATA

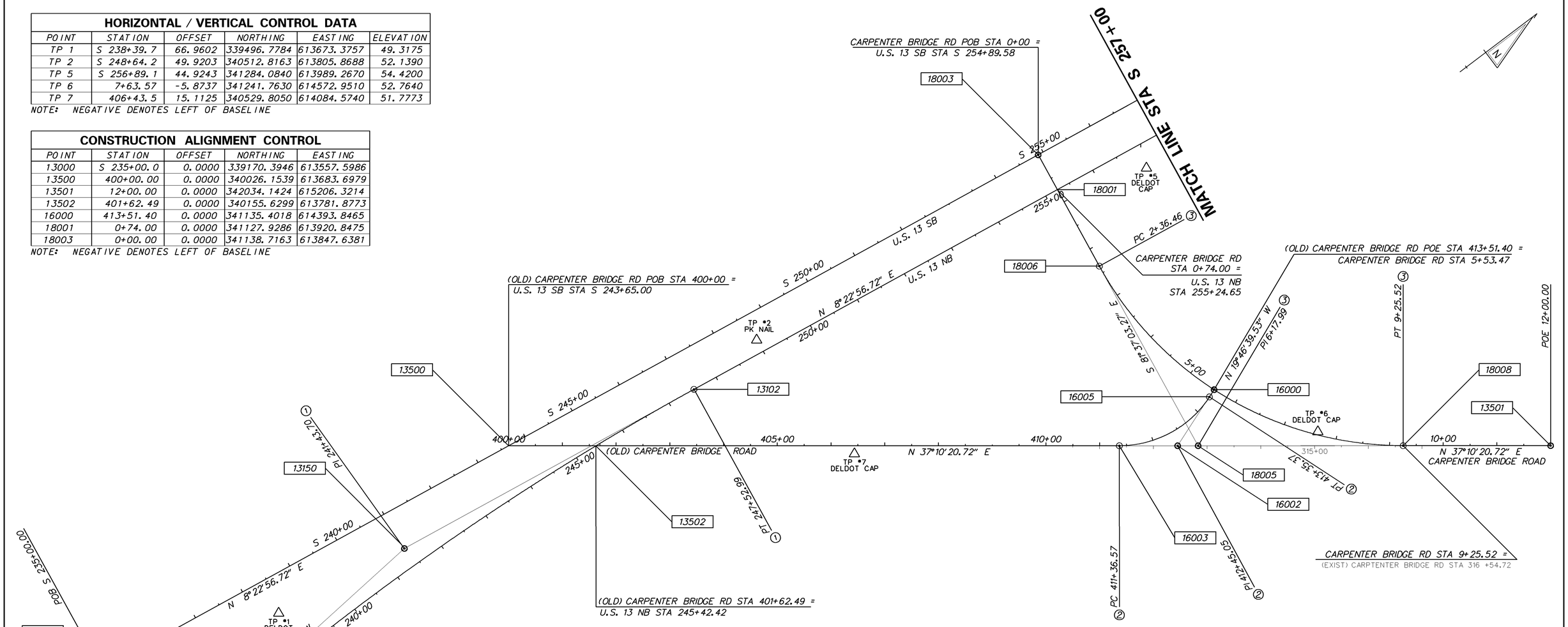
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP 1	S 238+39.7	66.9602	339496.7784	613673.3757	49.3175
TP 2	S 248+64.2	49.9203	340512.8163	613805.8688	52.1390
TP 5	S 256+89.1	44.9243	341284.0840	613989.2670	54.4200
TP 6	7+63.57	-5.8737	341241.7630	614572.9510	52.7640
TP 7	406+43.5	15.1125	340529.8050	614084.5740	51.7773

NOTE: NEGATIVE DENOTES LEFT OF BASELINE

CONSTRUCTION ALIGNMENT CONTROL

POINT	STATION	OFFSET	NORTHING	EASTING
13000	S 235+00.0	0.0000	339170.3946	613557.5986
13500	400+00.00	0.0000	340026.1539	613683.6979
13501	12+00.00	0.0000	342034.1424	615206.3214
13502	401+62.49	0.0000	340155.6299	613781.8773
16000	413+51.40	0.0000	341135.4018	614393.8465
18001	0+74.00	0.0000	341127.9286	613920.8475
18003	0+00.00	0.0000	341138.7163	613847.6381

NOTE: NEGATIVE DENOTES LEFT OF BASELINE



DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).

VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

CIRCULAR CURVE NO. ①

	STATION	NORTHING	EASTING
Element: Circular			
PC (13100)	235+28.74	339143.5825	613773.2058
PI (13150)	241+43.70	339756.1224	613718.7068
CC ( )		339605.1891	618961.4212
PT (13102)	247+52.99	340364.5124	613808.3553

Radius: 5208.7100
Delta: 13°28'00.3448" Right
Degree of Curvature(Arc): 1°05'59.9979"
Length: 1224.2518
Tangent: 614.9595
Chord: 1221.4357
Middle Ordinate: 35.9270
External: 36.1766
Tangent Direction: N 5°05'03.6226" W
Radial Direction: N 84°54'56.3774" E
Chord Direction: N 1°38'56.5498" E
Radial Direction: S 81°37'03.2778" E
Tangent Direction: N 8°22'56.7222" E

CIRCULAR CURVE NO. ②

	STATION	NORTHING	EASTING
Element: Circular			
PC (16003)	411+36.57	340931.7984	614370.4327
PI (16002)	412+45.05	341018.2362	614435.9771
CC (16004)		341052.6416	614211.0686
PT (16005)	413+35.37	341120.3158	614399.2712

Radius: 200.0000
Delta: 56°57'00.2549" Left
Degree of Curvature(Arc): 28°38'52.4031"
Length: 198.7932
Tangent: 108.4783
Chord: 190.7103
Middle Ordinate: 24.1950
External: 27.5248
Tangent Direction: N 37°10'20.7223" E
Radial Direction: S 52°49'39.2777" E
Chord Direction: N 8°41'50.5949" E
Radial Direction: N 70°13'20.4674" E
Tangent Direction: N 19°46'39.5326" W

CIRCULAR CURVE NO. ③

	STATION	NORTHING	EASTING
Element: Circular			
PC (18006)	2+36.46	341104.2456	614081.5695
PI (18005)	6+17.99	341048.6266	614459.0216
CC (18007)		341742.3551	614175.5973
PT (18008)	9+25.52	341352.6360	614689.5467

Radius: 645.0000
Delta: 61°12'36.0034" Left
Degree of Curvature(Arc): 8°52'59.0397"
Length: 689.0639
Tangent: 381.5279
Chord: 656.7603
Middle Ordinate: 89.8500
External: 104.3921
Tangent Direction: S 81°37'03.2743" E
Radial Direction: S 8°22'56.7257" W
Chord Direction: N 67°46'38.7240" E
Radial Direction: S 52°49'39.2777" E
Tangent Direction: N 37°10'20.7223" E

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 90 180 270
FEET

HSIP KC, US 13 AT
CARPENTER BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200900801	DESIGNED BY: STEVE BROWN	
COUNTY		
KENT	CHECKED BY:	

HORIZONTAL AND
VERTICAL CONTROL

SHEET NO. 10
TOTAL SHTS. 39