

SH 45 Project Control Line

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction
Alignment Name:			20755 - Single Control Line						
Tangent	POB		8+14.65	581878.29	241563.7				
Tangent	PI		29+14.07	583974.8	241453.3				
Tangent	PI		29+14.07	583974.8	241453.3				
Tangent	PC		91+25.42	590168.34	240983.29				
Arc	PC		91+25.42	590168.34	240983.29				
Arc	PI		95+08.14	590549.97	240954.33	11500	765.16	3°48'44"	Right
Arc	CC			591038.53	252450.32				
Arc	PT		98+90.58	590932.67	240950.81				
Tangent	PT		98+90.58	590932.67	240950.81				
Tangent	PI		135+32.46	594574.4	240917.29				
Tangent	PI		135+32.46	594574.4	240917.29				
Tangent	PC		173+14.78	598355.45	240819.49				
Arc	PC		173+14.78	598355.45	240819.49				
Arc	PI		180+80.53	599120.95	240799.7	4600	1517.6	18°54'09"	Right
Arc	CC			598474.39	245417.96				
Arc	PT		188+32.38	599851.59	241028.96				
Tangent	PT		188+32.38	599851.59	241028.96				
Tangent	POE		222+63.66	603125.48	242056.25				

Southbound Profile Grade Line

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction
Alignment Name:			Southbound Control Line						
Tangent	POB		2999+99.79	589677.13	240998.81				
Tangent	PC		3005+19.66	590195.57	240960.22				
Arc	PC		3005+19.66	590195.57	240960.22				
Arc	PI		3008+79.17	590554.08	240933.54	11100	718.76	3°42'36"	Right
Arc	CC			591019.36	252029.61				
Arc	PT		3012+38.43	590913.57	240930.12				
Tangent	PT		3012+38.43	590913.57	240930.12				
Tangent	PI		3050+51.13	594726.11	240893.78				
Tangent	PI		3050+51.13	594726.11	240893.78				
Tangent	PC		3086+65.43	598339.18	240799.9				
Arc	PC		3086+65.43	598339.18	240799.9				
Arc	PI		3094+12.77	599086.27	240780.49	4500	1481.16	18°51'31"	Right
Arc	CC			598456.07	245298.38				
Arc	PT		3101+46.59	599799.53	241003.6				
Tangent	PT		3101+46.59	599799.53	241003.6				
Tangent	POE		3117+32.98	601313.58	241477.22				

Northbound Profile Grade Line

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction
Alignment Name:			Northbound Control Line						
Tangent	POB		1999+57.69	589638.08	241040.52				
Tangent	PI		2002+36.51	589915.83	241016.16				
Tangent	PI		2002+36.51	589915.83	241016.16				
Tangent	PC		2004+44.43	590123.22	241001.37				
Arc	PC		2004+44.43	590123.22	241001.37				
Arc	PI		2007+49.81	590427.83	240979.63	14100	610.66	2°28'53"	Right
Arc	CC			591126.3	255065.65				
Arc	PT		2010+55.09	590733.09	240971.13				
Tangent	PT		2010+55.09	590733.09	240971.13				
Tangent	PI		2011+81.49	590859.43	240967.61				
Tangent	PI		2011+81.49	590859.43	240967.61				
Tangent	PI		2017+28.56	591406.47	240961.56				
Tangent	PI		2017+28.56	591406.47	240961.56				
Tangent	PI		2036+21.55	593299.39	240944.51				
Tangent	PI		2036+21.55	593299.39	240944.51				
Tangent	PI		2052+36.49	594914.24	240927.18				
Tangent	PI		2052+36.49	594914.24	240927.18				
Tangent	PI		2081+15.49	597792.24	240851.43				
Tangent	PI		2081+15.49	597792.24	240851.43				
Tangent	PC		2085+81.08	598257.75	240843.16				
Arc	PC		2085+81.08	598257.75	240843.16				
Arc	PI		2095+04.89	599181.42	240826.74	5700	1831.7	18°24'44"	Right
Arc	CC			598359.04	246542.26				
Arc	PT		2104+12.78	600062.99	241102.9				
Tangent	PT		2104+12.78	600062.99	241102.9				
Tangent	POE		2117+19.04	601309.52	241493.39				

Print Date: 2/21/2017

File Name: 20755DES\_Geometry02.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted

Unit Information

Unit Leader DTD

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



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Region 2

DTD

As Constructed

No Revisions:

Revised:

Void:

GEOMETRY PLAN SHEET

Designer:	LEP	Structure Numbers
Detailer:	LEP	
Sheet Subset:	GEO	Subset Sheets: 02 of 02

Project No./Code

STM SH45-001

20755

Sheet Number 28