



Summary of Compaction and CBR Test Results.

Boring No.	Depth (ft.)	USCS/ AASHTO	Liquid Limit (%)	Plastic Limit (%)	Proctor Results		CBR Results				Percent Compaction (%) *
					Maximum Dry Unit Weight (pcf)	Optimum Moisture Content (%)	Blows per Layer	Dry Unit Weight (pcf)	Moisture Content (%) *	CBR	
E-6	0.3 to 5	CL/ A-6 (7)	37	19	112.3	15.0	25	108.5	14.4	5.9	96.6
							56	115.0	14.2	6.2	102.4
P-2	0.3 to 5	CL/ A-6 (6)	32	18	113.6	14.3	10	98.7	14.3	1.6	86.9
							25	109.7	14.4	6.4	96.6
							56	114.1	14.5	6.2	100.4
P-5	0.8 to 5	CL/ A-7-6 (7)	41	23	112.6	15.5	25	109.3	15.9	5.1	97.1
							56	112.8	15.8	3.9	100.2
P-8	0.3 to 5	CL/ A-6 (6)	32	16	116.8	13.3	10	100.3	12.8	2.0	85.9
							25	112.2	12.8	7.5	96.1
							56	117.8	13.0	8.1	100.9
W-1	0.3 to 5	SC/ A-6 (2)	27	16	114.8	14.0	10	105.2	13.3	2.5	91.6
							25	113.9	13.4	5.8	99.2
							56	117.2	13.4	3.2	102.1
W-7	0.8 to 5	SC/ A-4 (2)	26	16	108.6	15.6	25	98.4	14.1	1.0	90.6
							56	107.6	13.7	1.5	99.1
W-11	0.8 to 5	CH/ A-7-5 (34)	80	31	96.5	23.0	10	81.0	22.2	0.4	83.9
							25	92.7	22.4	1.3	96.1
							56	93.4	21.8	3.4	96.8

Preliminary Compaction Results Boring Locations

I-40 Bridge Replacement / Rest Area Truck Parking
Smith - Putnam County, Tennessee
TDOT PIN 131552.01

Legend

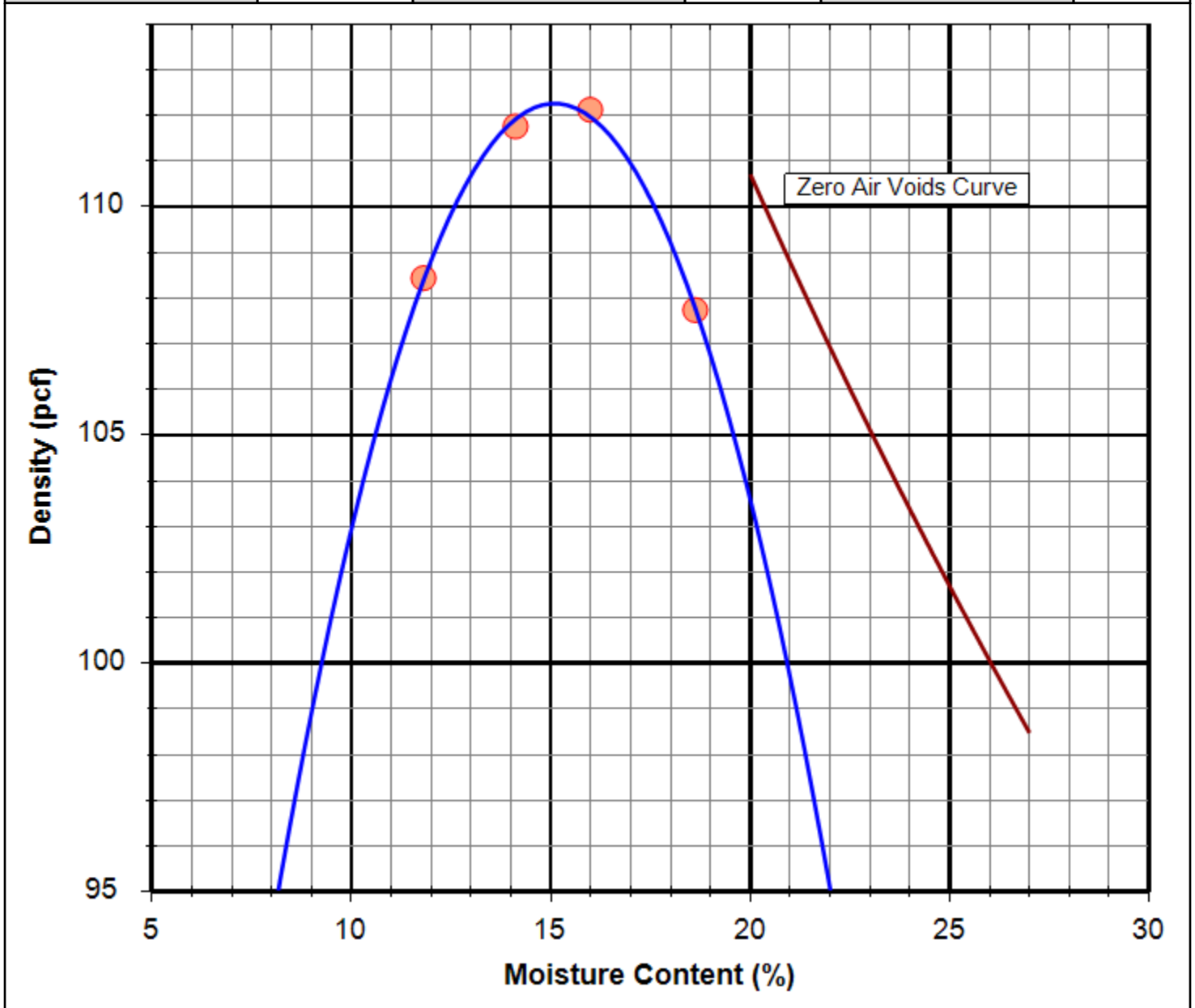
 Boring ID





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

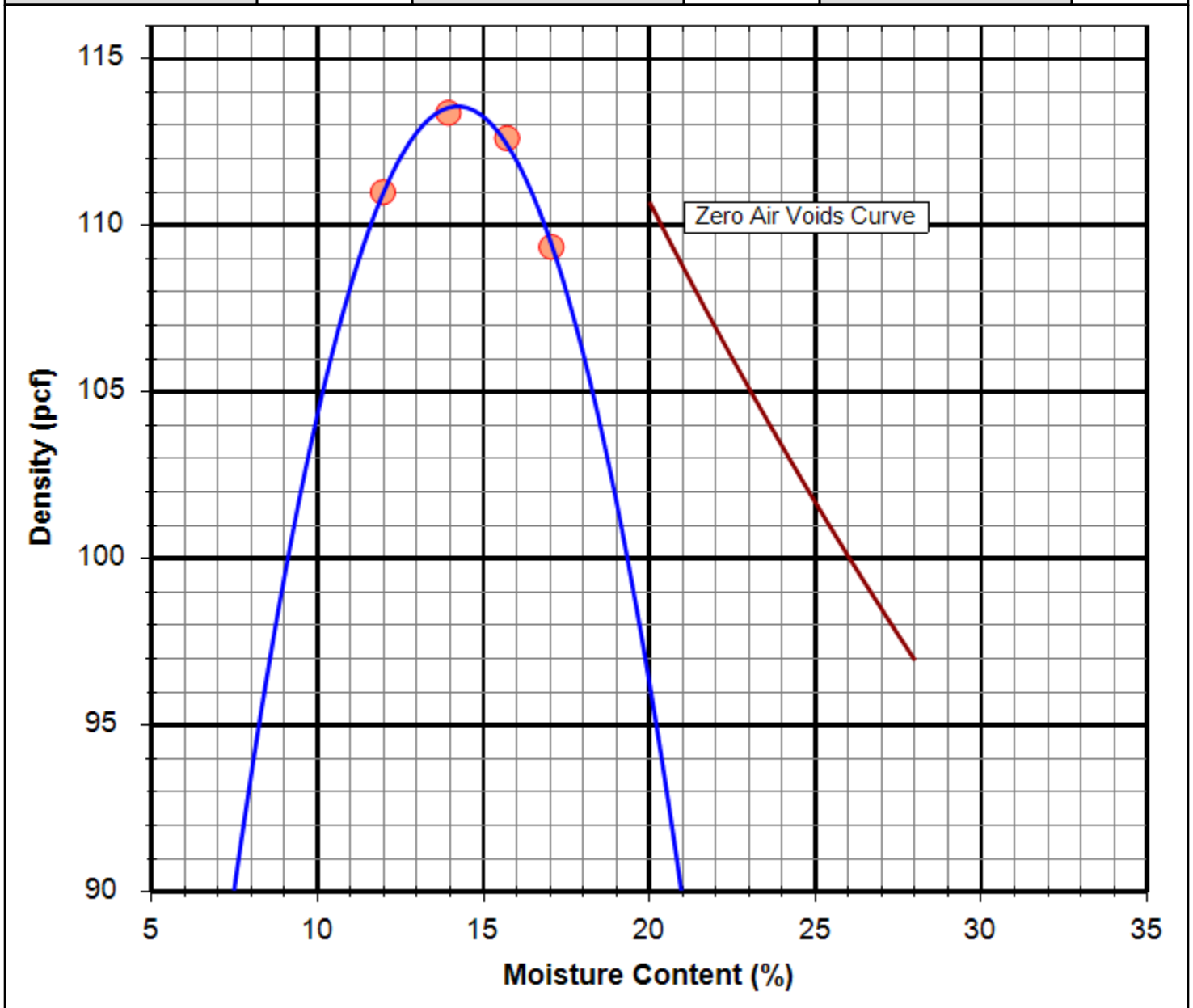
Client:	HMB Professional Engineers, Inc.				Project No.:	A24138.00136.001			
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN				Date:	5/9/2025			
Sample Obtained From:	E-6				Depth (ft.):	0.3 - 5'			
Sample Description:	Red-brown, sandy, LEAN CLAY - (CL)				LL	PL	PI	USCS	
					37	19	18	CL	
Maximum Dry Density (pcf):	112.3		Optimum Moisture Content:	15.0%		In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

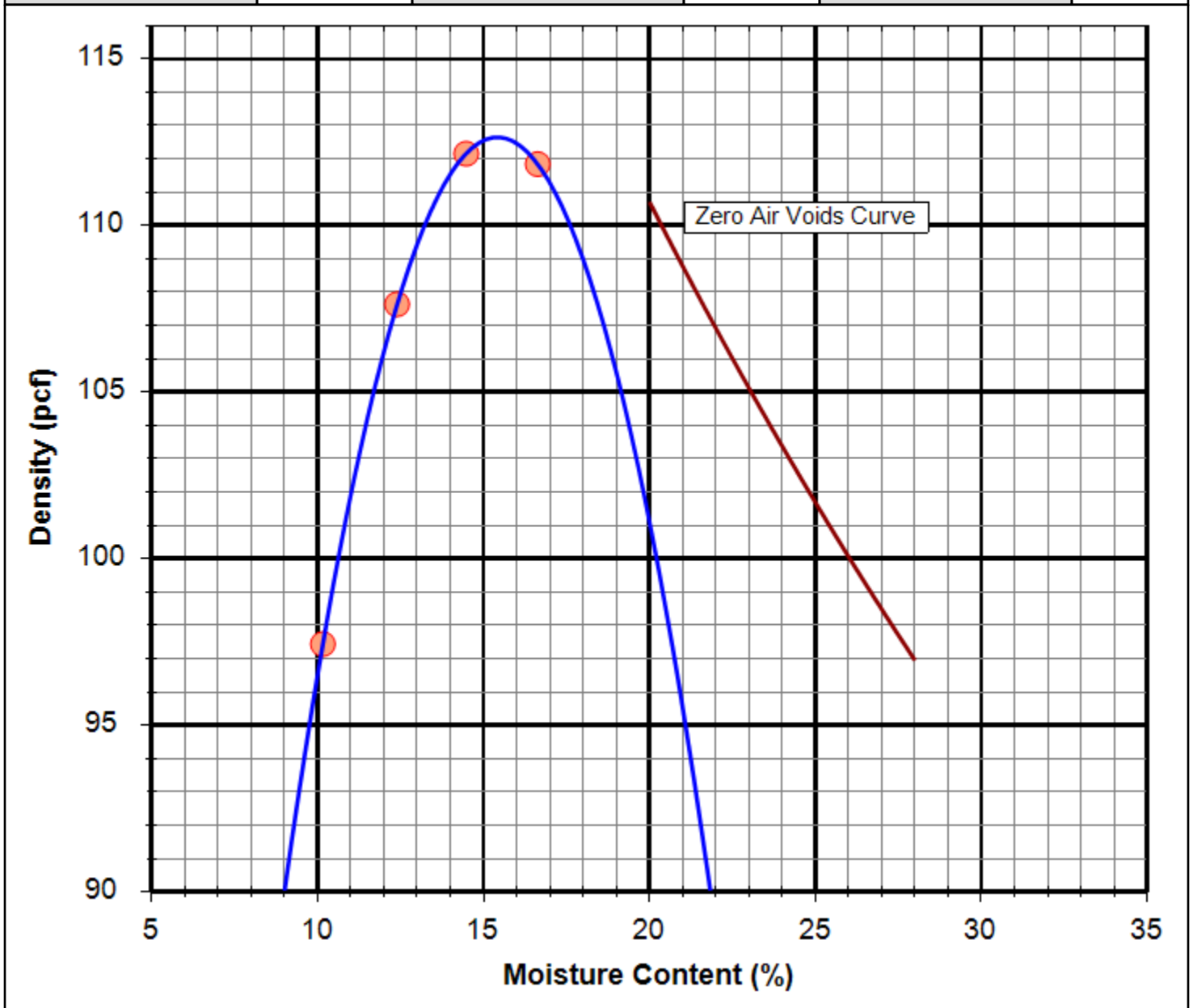
Client:	HMB Professional Engineers, Inc.			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/9/2025		
Sample Obtained From:	P-2			Depth (ft.):	0.3 - 5'		
Sample Description:	Brown, sandy, LEAN CLAY - (CL)			LL	PL	PI	USCS
				32	18	14	CL
Maximum Dry Density (pcf):	113.6	Optimum Moisture Content:	14.3%	In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

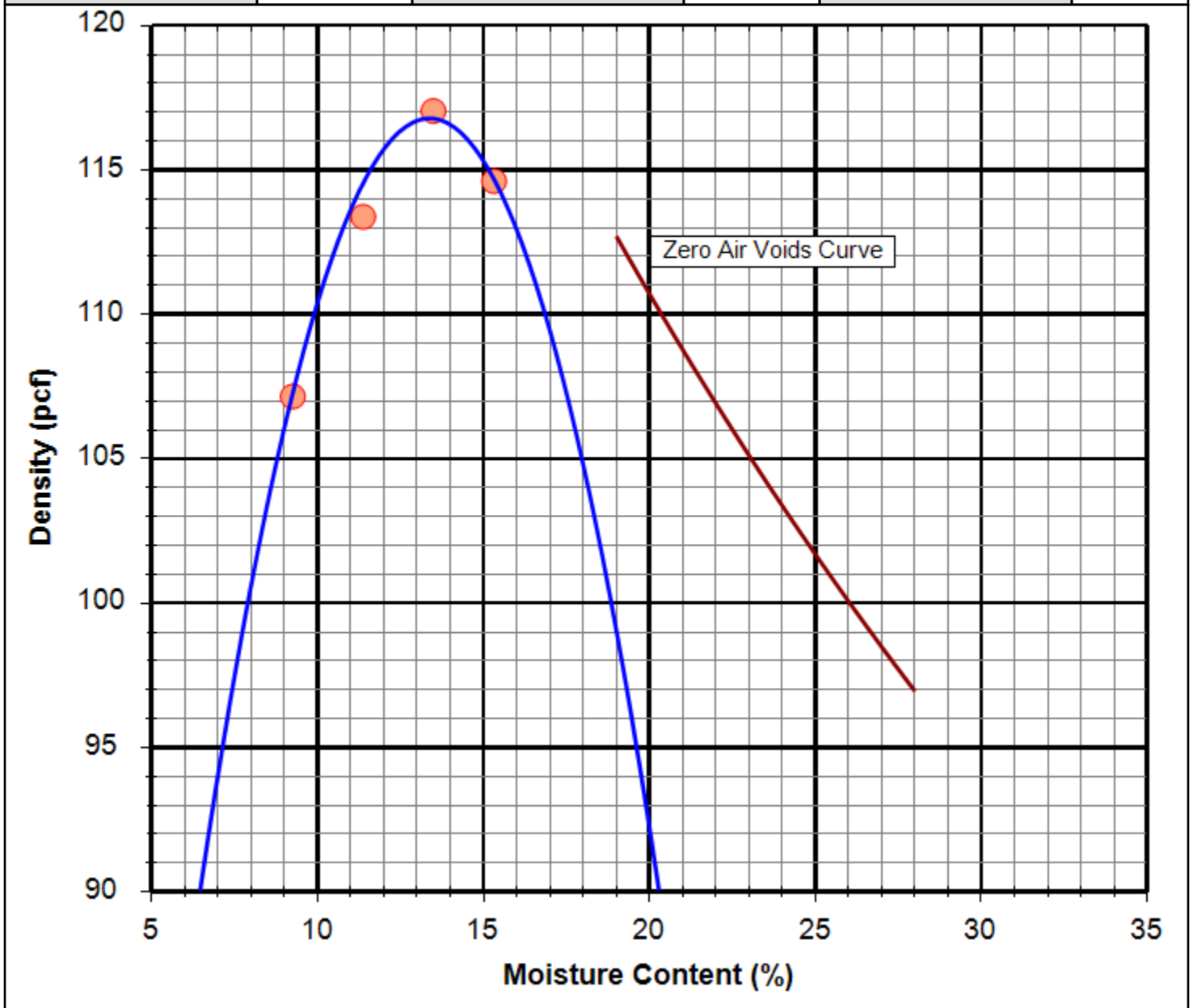
Client:	HMB Professional Engineers, LLC			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/2/2025		
Sample Obtained From:	P-5			Depth (ft.):	0.8- 5'		
Sample Description:	Red-brown, sandy, LEAN CLAY - (CL)			LL	PL	PI	USCS
				41	23	18	CL
Maximum Dry Density (pcf):	112.6	Optimum Moisture Content:	15.5%	In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

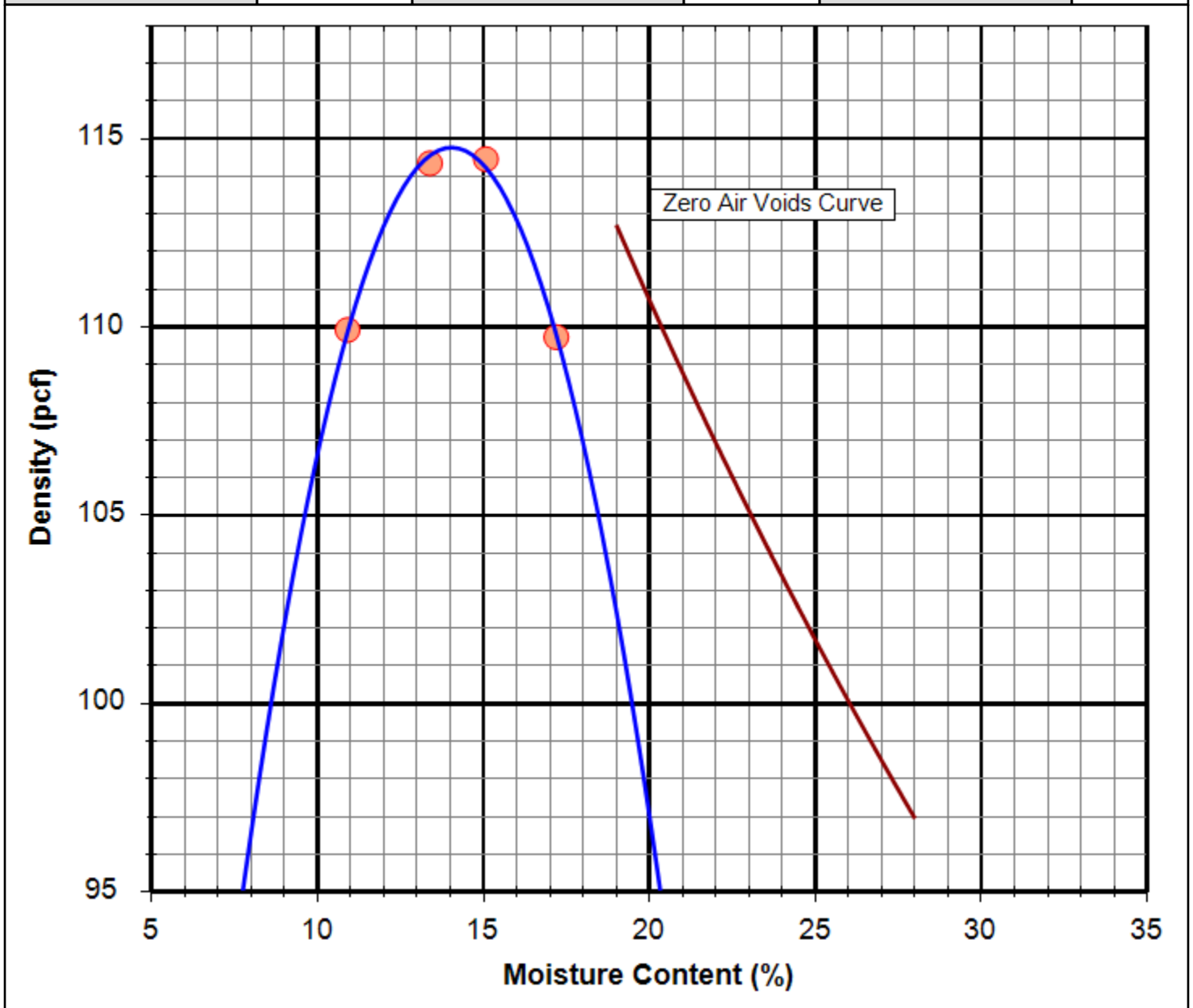
Client:	HMB Professional Engineers, Inc.			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/2/2025		
Sample Obtained From:	P-8			Depth (ft.):	0.3 - 5'		
Sample Description:	Brown, sandy, LEAN CLAY - (CL)			LL	PL	PI	USCS
				32	16	16	CL
Maximum Dry Density (pcf):	116.8	Optimum Moisture Content:	13.3%	In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

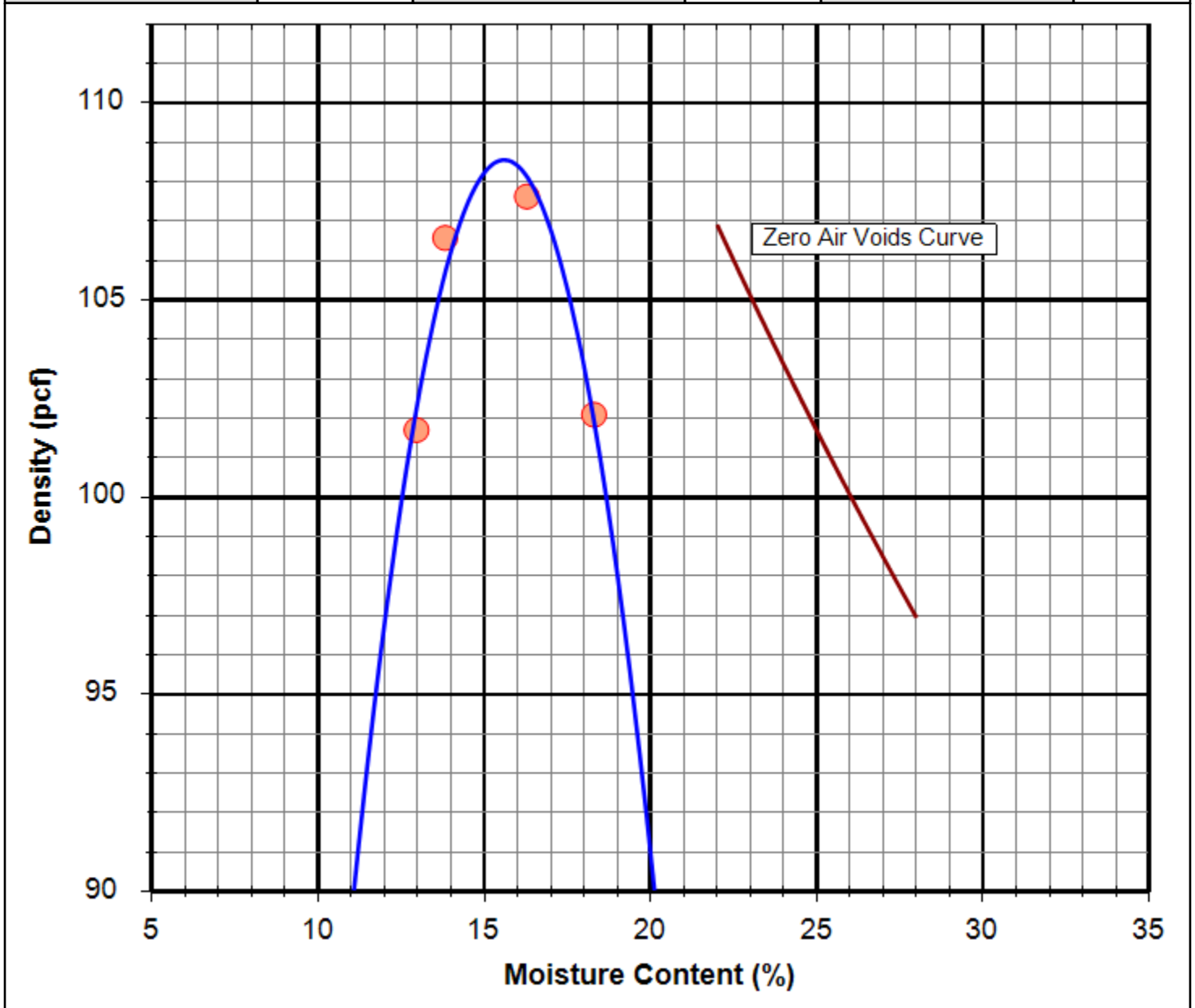
Client:	HMB Professional Engineers, Inc.			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/23/2025		
Sample Obtained From:	W-1			Depth (ft.):	0.3 - 5'		
Sample Description:	Brown, CLAYEY SAND - (SC)			LL	PL	PI	USCS
				27	16	11	SC
Maximum Dry Density (pcf):	114.8	Optimum Moisture Content:	14.0%	In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

Client:	HMB Professional Engineers, Inc.			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/14/2025		
Sample Obtained From:	W-7			Depth (ft.):	0.8 - 5'		
Sample Description:	Brown, CLAYEY SAND - (SC)			LL	PL	PI	USCS
				26	16	10	SC
Maximum Dry Density (pcf):	108.6	Optimum Moisture Content:	15.6%	In Situ Moisture Content:		-	





STANDARD PROCTOR MOISTURE DENSITY TEST, ASTM D698, METHOD A

Client:	HMB Professional Engineers, Inc.			Project No.:	A24138.00136.001		
Project:	PIN 131552.01 I-40 Truck Stop and Bridge Replacement over Carney Fork River, Buffalo Valley, TN			Date:	5/14/2025		
Sample Obtained From:	W-11			Depth (ft.):	0.8 - 5'		
Sample Description:	Brown, sandy, FAT CLAY - (CH)			LL	PL	PI	USCS
				80	31	49	CH
Maximum Dry Density (pcf):	96.5	Optimum Moisture Content:	23.0%	In Situ Moisture Content:		-	

