



ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599

**TESTING SUMMARY
FLYING HORSE NORTH, FILING 6
EL PASO COUNTY, COLORADO**

Prepared for:
**Classic Communities
2138 Flying Horse Club Drive
Colorado Springs, CO 80921**

Attn: Adam Doyle

September 18, 2026

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Joseph C. Goode III, P.E.
Sr. Engineer

Entech Job No. 251790

DO:JCG/

Storm Sewer Trench Backfill



Entech Engineering
505 Elkton Dr.
Colorado Springs, CO 80907
Phone: 719-531-5599

Soil Density Report

Storm Sewer Testing

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

251790
Flying Horse North F6
Flying Horse North F6
Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 / 22	Storm Water: Culvert 2, middle of Sandbagger Dr.	1	Below Grade	06/11/2026	P1	12.0	108.9	96	95	-1 / 3	DPMP		MS
2 / 23	Storm Water: Culvert 2, middle of Sandbagger Dr.	-	At Grade	06/11/2026	P2	6.6	124.8	97	95	-2 / 2	DPMP		MS
3 / 24	Storm Water: Culvert 1, STA 40 + 75.	1	Below Grade	06/12/2026	P1	12.1	107.8	95	95	-1 / 3	DPMP		MS
4 / 25	Storm Water: Culvert 1, STA 40 + 75.	-	At Grade	06/12/2026	P1	11.8	107.2	95	95	-1 / 3	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P1	ASTM D698 - A	CL	12.8	113.4
P2	ASTM D1557 - A	SC	7.6	129.3

Roadway Subgrade



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Soil Density Report

Roadway Native Subgrade

Client:

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Project:

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Flying Horse North F6
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Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
4 / 27	Roadway Subgrade: STA 37 + 00 on Holmes Rd., center of the cul-de-sac.	-	At Grade	08/12/2026	P2	6.9	124.9	97	95	-2 / 2	DPMP		MS
5 / 28	Roadway Subgrade: STA 39 + 00 on Holmes Rd., eastbound lane.	-	At Grade	08/12/2026	P3	9.0	117.7	98	95	-1 / 3	DPMP		MS
6 / 29	Roadway Subgrade: STA 41 + 00 on Holmes Rd., westbound lane.	-	At Grade	08/13/2026	P3	9.5	117.7	98	95	-1 / 3	DPMP		MS
7 / 30	Roadway Subgrade: STA 43 + 00 on Holmes Rd., eastbound lane.	-	At Grade	08/13/2026	P3	9.3	117.0	97	95	-1 / 3	DPMP		MS
8 / 31	Roadway Subgrade: STA 26 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/13/2026	P2	6.8	124.9	97	95	-2 / 2	DPMP		MS
9 / 32	Roadway Subgrade: STA 28 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/17/2026	P2	8.0	124.9	97	95	-2 / 2	DPMP		MS
10 / 33	Roadway Subgrade: STA 30 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/17/2026	P2	7.9	124.0	96	95	-2 / 2	DPMP		MS
11 / 34	Roadway Subgrade: STA 32 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/17/2026	P2	8.2	125.0	97	95	-2 / 2	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D1557 - A	SC	7.6	129.3
P3	ASTM D698 - A	CL	9.9	120.7

**Roadway Subgrade:
Recycled Concrete Base**



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Colorado Springs, CO 80907
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Soil Density Report

RCB Testing

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

251790
Flying Horse North F6
Flying Horse North F6
Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
12 / 35	Roadway Subgrade: RBC, STA 38 + 50 on Holmes Rd., northbound lane.	-	At Grade	08/28/2026	P4	10.0	111.9	98	95	-2 / 2	DPMP		MS
13 / 36	Roadway Subgrade: RBC, STA 40 + 50 on Holmes Rd., southbound lane.	-	At Grade	08/28/2026	P4	9.8	110.8	97	95	-2 / 2	DPMP		MS
14 / 37	Roadway Subgrade: RBC, STA 42 + 50 on Holmes Rd., northbound lane.	-	At Grade	08/28/2026	P4	10.2	111.2	97	95	-2 / 2	DPMP		MS
15 / 38	Roadway Subgrade: RBC, STA 44 + 50 on Holmes Rd., southbound lane.	-	At Grade	08/28/2026	P4	11.0	111.4	97	95	-2 / 2	DPMP		MS
16 / 39	Roadway Subgrade: RBC, STA 27 + 00 on Sandbagger Dr., eastbound lane.	-	At Grade	08/28/2026	P4	10.5	112.1	98	95	-2 / 2	DPMP		MS
17 / 40	Roadway Subgrade: RBC, STA 29 + 00 on Sandbagger Dr., westbound lane.	-	At Grade	08/28/2026	P4	11.2	111.4	97	95	-2 / 2	DPMP		MS
18 / 41	Roadway Subgrade: RBC, STA 31 + 00 on Sandbagger Dr., northeast bound lane.	-	At Grade	08/28/2026	P4	11.0	110.9	97	95	-2 / 2	DPMP		MS
19 / 42	Roadway Subgrade: RBC, STA 33 + 00 on Sandbagger Dr., southwest bound lane.	-	At Grade	08/28/2026	P4	11.2	112.9	98	95	-2 / 2	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P4	ASTM D1557 - C	Cls 6 R.C.	10.9	114.7

Asphalt Pavement



Entech Engineering
505 Elkton Dr.
Colorado Springs, CO 80907
Phone: 719-531-5599

Density of Asphalt

Asphalt testing

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

251790
Flying Horse North F6
Flying Horse North F6
Colorado Springs, CO

Test Results

Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
1	08/31/2026	Bottom Lift, Drive Lane: STA 38 + 00 on Holmes Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.9	92	92 / 96	SP	MS	
2	08/31/2026	Bottom Lift, Drive Lane: STA 40 + 00 on Holmes Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.3	93	92 / 96	SP	MS	
3	08/31/2026	Bottom Lift, Drive Lane: STA 42 + 00 on Holmes Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.7	93	92 / 96	SP	MS	
4	08/31/2026	Bottom Lift, Drive Lane: STA 44 + 00 on Holmes Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.5	93	92 / 96	SP	MS	
5	08/31/2026	Bottom Lift, Drive Lane: STA 27 + 00 on Sandbagger Dr., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.1	92	92 / 96	SP	MS	
6	08/31/2026	Bottom Lift, Drive Lane: STA 29 + 00 on Sandbagger Dr., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.8	92	92 / 96	SP	MS	
7	08/31/2026	Bottom Lift, Drive Lane: STA 31 + 00 on Sandbagger Dr., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.2	92	92 / 96	SP	MS	
8	08/31/2026	Bottom Lift, Drive Lane: STA 32 + 50 on Sandbagger Dr., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.1	92	92 / 96	SP	MS	
9	09/01/2026	Top Lift, Drive Lane: STA 38 + 50 on Holmes Rd., westbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	141.4	93	92 / 96	SP	MS	
10	09/01/2026	Top Lift, Drive Lane: STA 40 + 50 on Holmes Rd., northbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	143.3	94	92 / 96	SP	MS	
11	09/01/2026	Top Lift, Drive Lane: STA 42 + 50 on Holmes Rd., southbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	141.2	92	92 / 96	SP	MS	
12	09/01/2026	Top Lift, Drive Lane: STA 44 + 50 on Holmes Rd., northbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	145.0	95	92 / 96	SP	MS	



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Density of Asphalt

Asphalt testing

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Project:

251790
Flying Horse North F6
Flying Horse North F6
Colorado Springs, CO

Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
13	09/01/2026	Top Lift, Drive Lane: STA 26 + 50 on Sandbagger Dr., eastbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	143.6	94	92 / 96	SP	MS	
14	09/01/2026	Top Lift, Drive Lane: STA 28 + 50 on Sandbagger Dr., westbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	143.7	94	92 / 96	SP	MS	
15	09/01/2026	Top Lift, Drive Lane: STA 30 + 50 on Sandbagger Dr., eastbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	144.9	95	92 / 96	SP	MS	
16	09/01/2026	Top Lift, Drive Lane: STA 32 + 50 on Sandbagger Dr., westbound lane.	2.0	(1/2") GR SX PG 64-22 20% rap	152.7	143.9	94	92 / 96	SP	MS	

Remarks

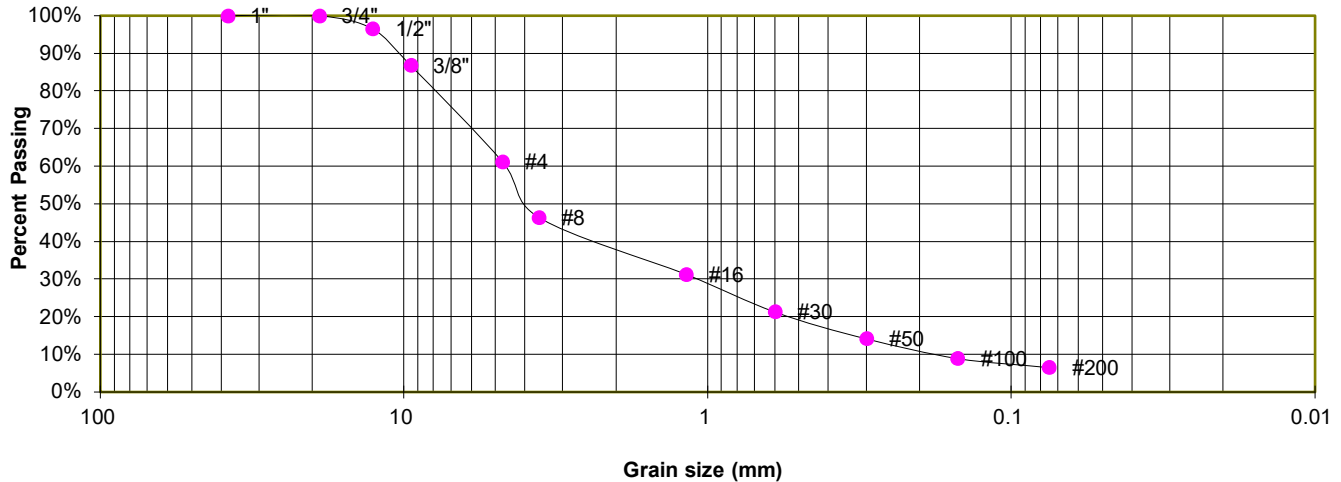
SP : Supplied Density Pass

Comments

Tests are determined using backscatter method.

LOCATION	HOLMES ROAD, ST A42+00
MIX DESIGN	SCHMIDT: 2562

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"	100.0%	95-100			100	100	
3/4"	100.0%	100			100	94-100	
1/2"	96.5%				94	88-100	
3/8"	86.8%				86	80-92	
4	61.2%	30-70			66	61-71	
8	46.4%	25-55			50	45-55	
16	31.3%				36		
30	21.3%				24	16-32	
50	14.2%				15		
100	9.0%				9		
200	6.60%	3-15	3-15	3-12	5.9	3.9-7.9	
% Bitumen	5.35%				5.4	4.6-6.2	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



LABORATORY TEST RESULTS

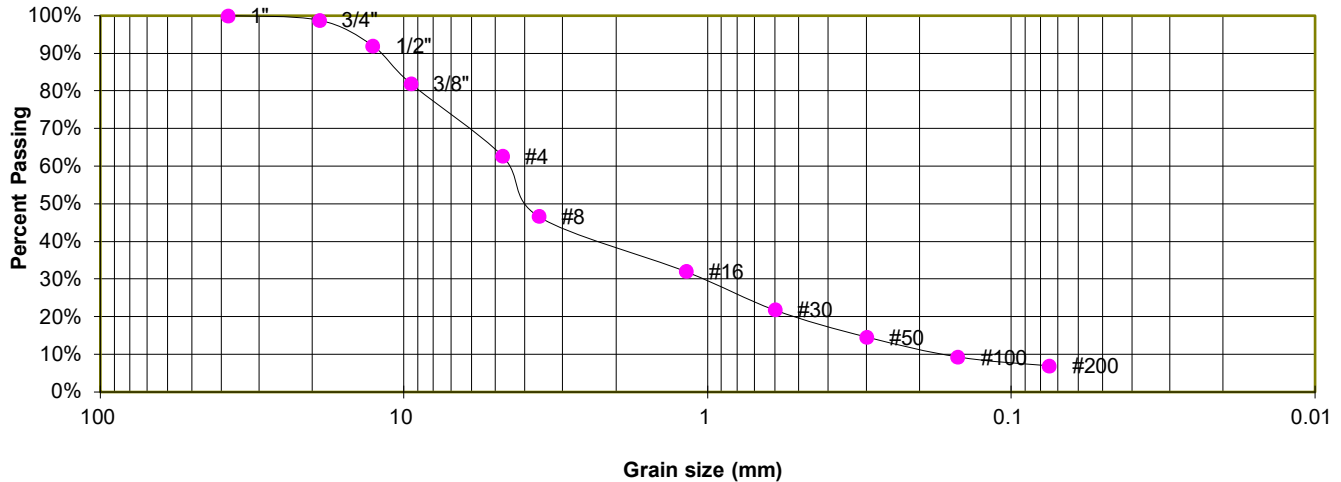
FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

FIG. 1

LOCATION	SANDBAGGER, STA 27+00
MIX DESIGN	SCHMIDT: 2562

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"	100.0%	95-100			100	100	
3/4"	98.9%	100			100	94-100	
1/2"	92.0%				94	88-100	
3/8"	82.0%				86	80-92	
4	62.8%	30-70			66	61-71	
8	46.7%	25-55			50	45-55	
16	32.1%				36		
30	21.9%				24	16-32	
50	14.6%				15		
100	9.4%				9		
200	6.94%	3-15	3-15	3-12	5.9	3.9-7.9	
% Bitumen	5.25%				5.4	4.6-6.2	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



LABORATORY TEST RESULTS

FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

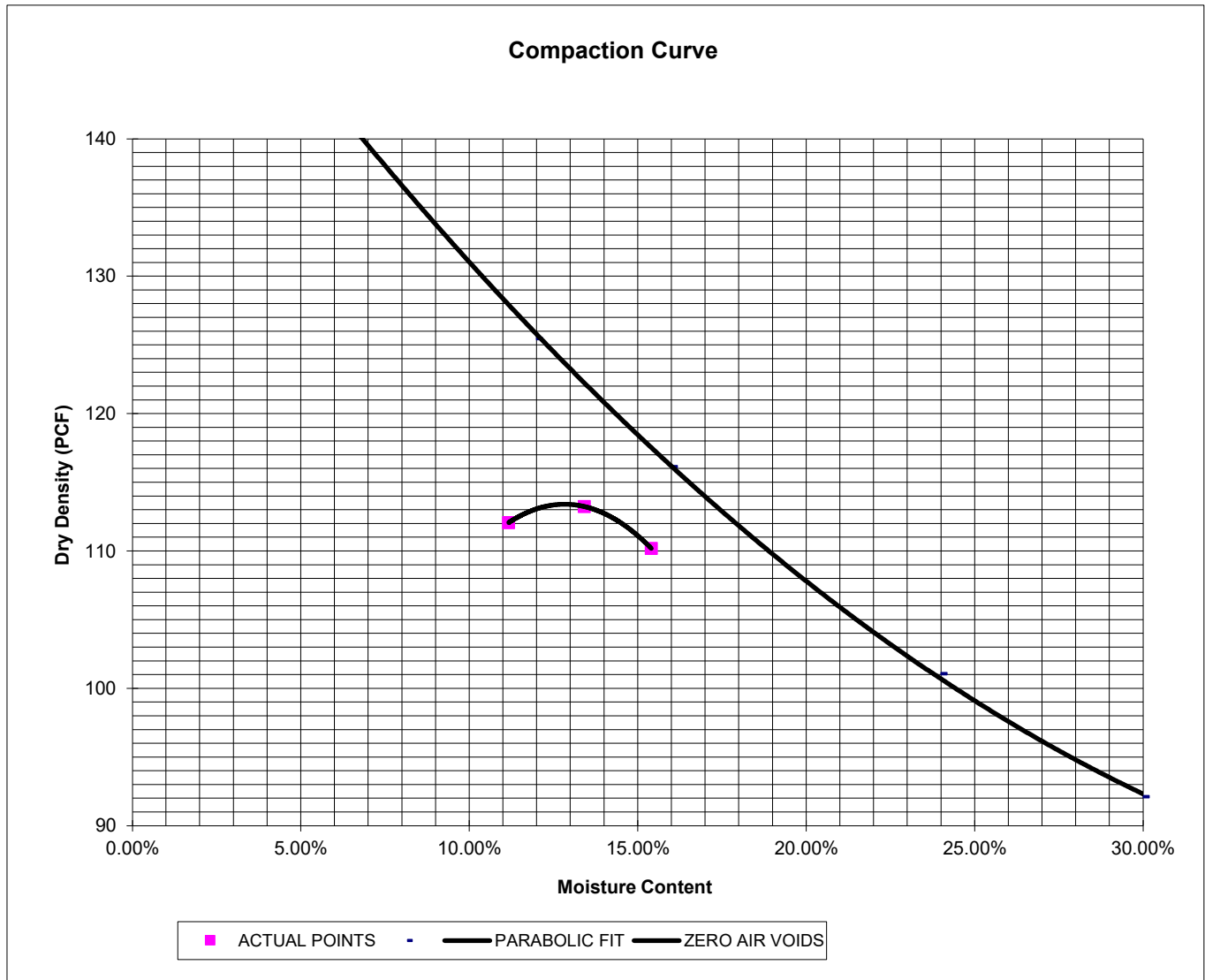
JOB NO.
251790

FIG. 2

Appendix A: Laboratory Data

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO.	<u>CLIENT</u>	FLYING HORSE NORTH, LLC
<u>SAMPLE LOCATION</u>	HOLMES ROAD, STA 42+00	<u>JOB NO.</u>	251790
<u>SOIL DESCRIPTION</u>	CLAY, SANDY, BROWN	<u>DATE</u>	04/22/26

<u>IDENTIFICATION</u>	CL	<u>PROCTOR TEST #</u>	1
<u>TEST DESIGNATION / METHOD</u>	ASTM D-698-A	<u>TEST BY</u>	DK
<u>MAXIMUM DRY DENSITY (PCF)</u>	113.4	<u>OPTIMUM MOISTURE</u>	12.8%



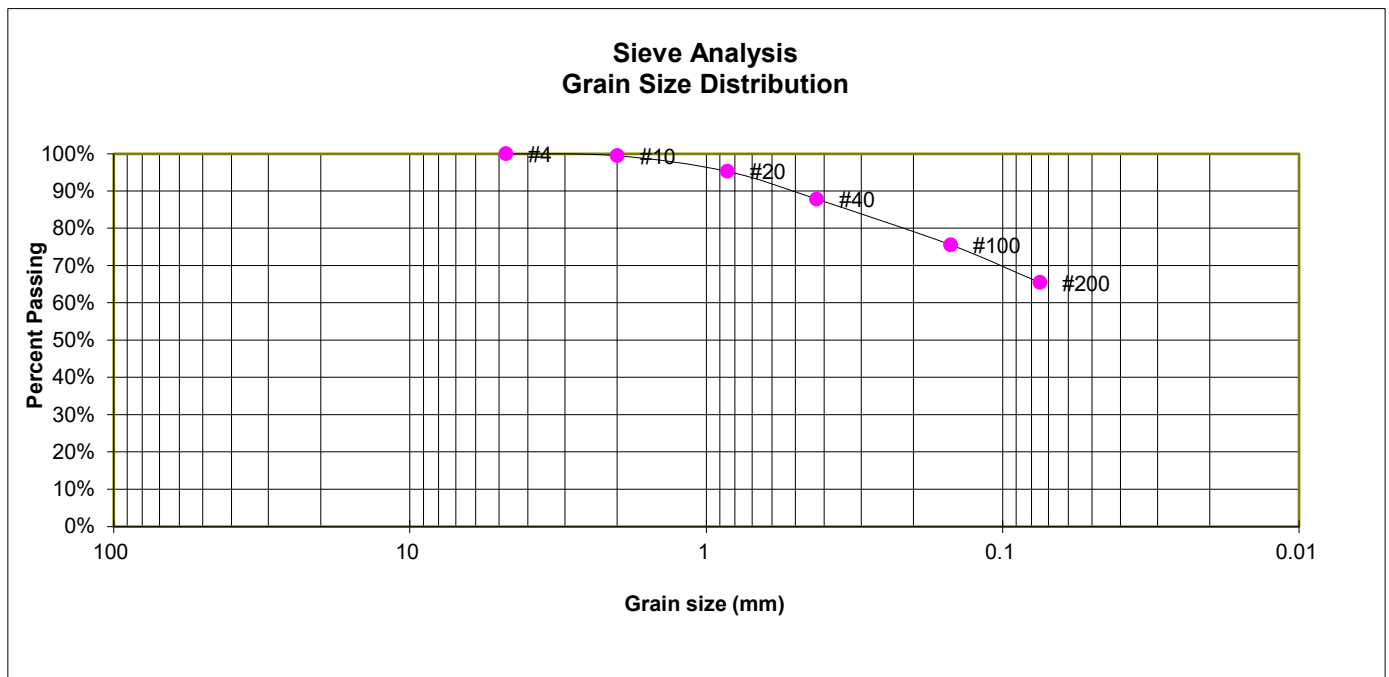
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P1

LOCATION HOLMES ROAD, STA 42+00 SOIL DESCRIPTION CLAY, SANDY, BROWN



**U.S.
Sieve #**

3"
1 1/2"
3/4"
1/2"
3/8"
4
10
20
40
100
200

**Percent
Finer**

100.0%
99.5%
95.3%
87.9%
75.6%
65.5%

Atterberg Limits

Plastic Limit 20
Liquid Limit 30
Plastic Index 10



LABORATORY TEST RESULTS

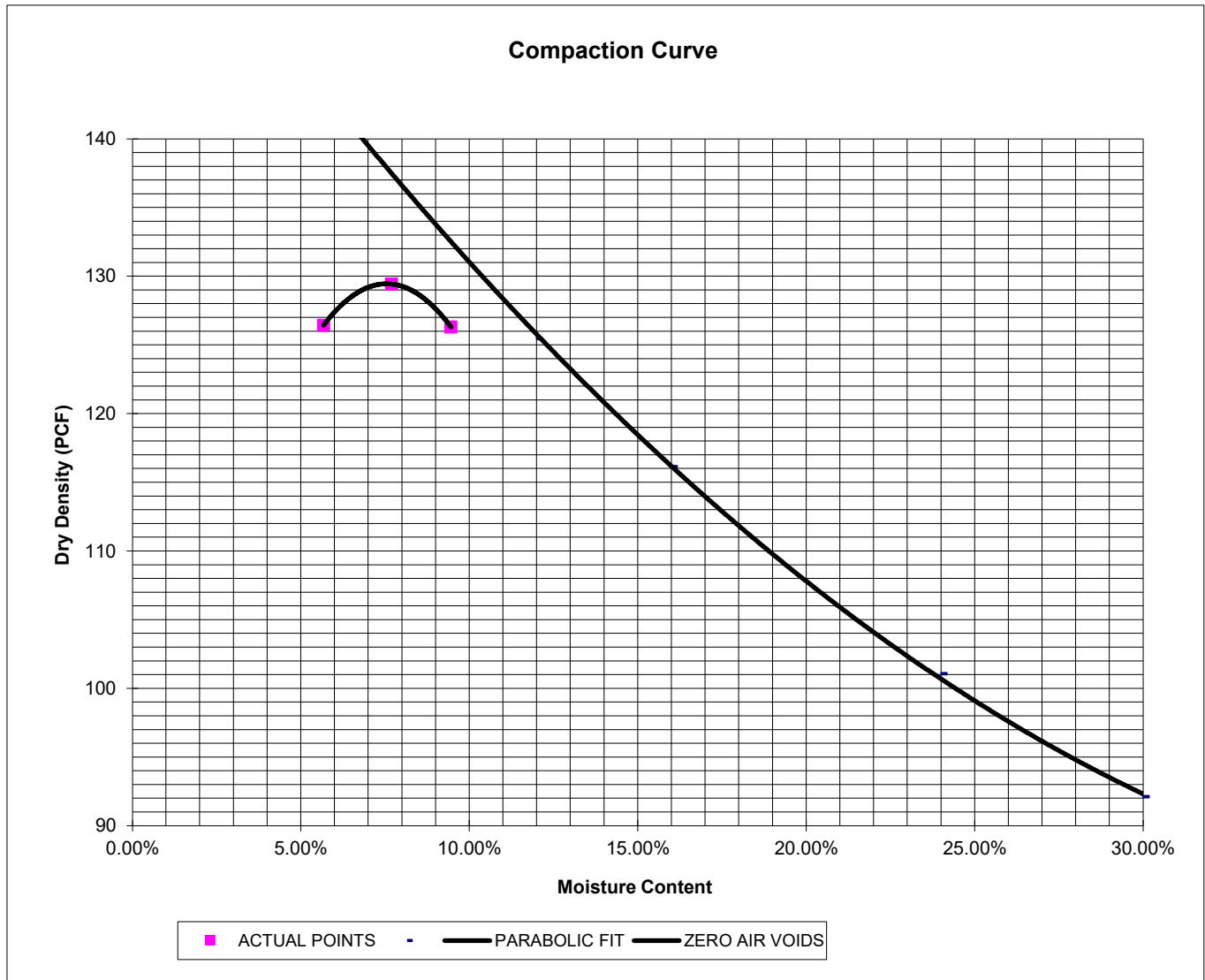
FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P1

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO.	<u>CLIENT</u>	FLYING HORSE NORTH, LLC
<u>SAMPLE LOCATION</u>	SANDBAGGER DRIVE, STA 30+50	<u>JOB NO.</u>	251790
<u>SOIL DESCRIPTION</u>	SAND, CLAYEY, BROWN	<u>DATE</u>	04/22/26

<u>IDENTIFICATION</u>	SC	<u>PROCTOR TEST #</u>	2
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	DK
<u>MAXIMUM DRY DENSITY (PCF)</u>	129.3	<u>OPTIMUM MOISTURE</u>	7.6%



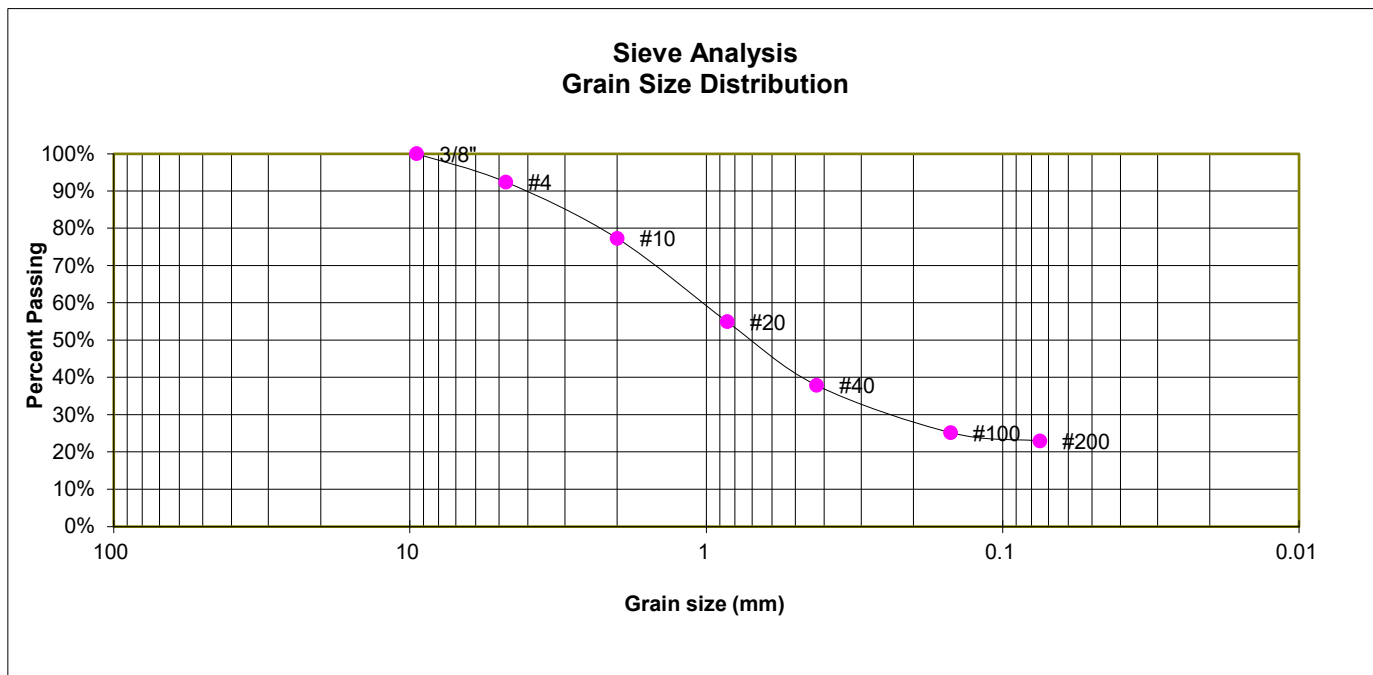
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P2

LOCATION SANDBAGGER DRIVE, STA 30+50 SOIL DESCRIPTION SAND, CLAYEY, BROWN



**U.S.
Sieve #**

**Percent
Finer**

Atterberg Limits

Plastic Limit 17
Liquid Limit 24
Plastic Index 7

3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	92.4%
10	77.3%
20	54.9%
40	37.9%
100	25.2%
200	23.0%



LABORATORY TEST RESULTS

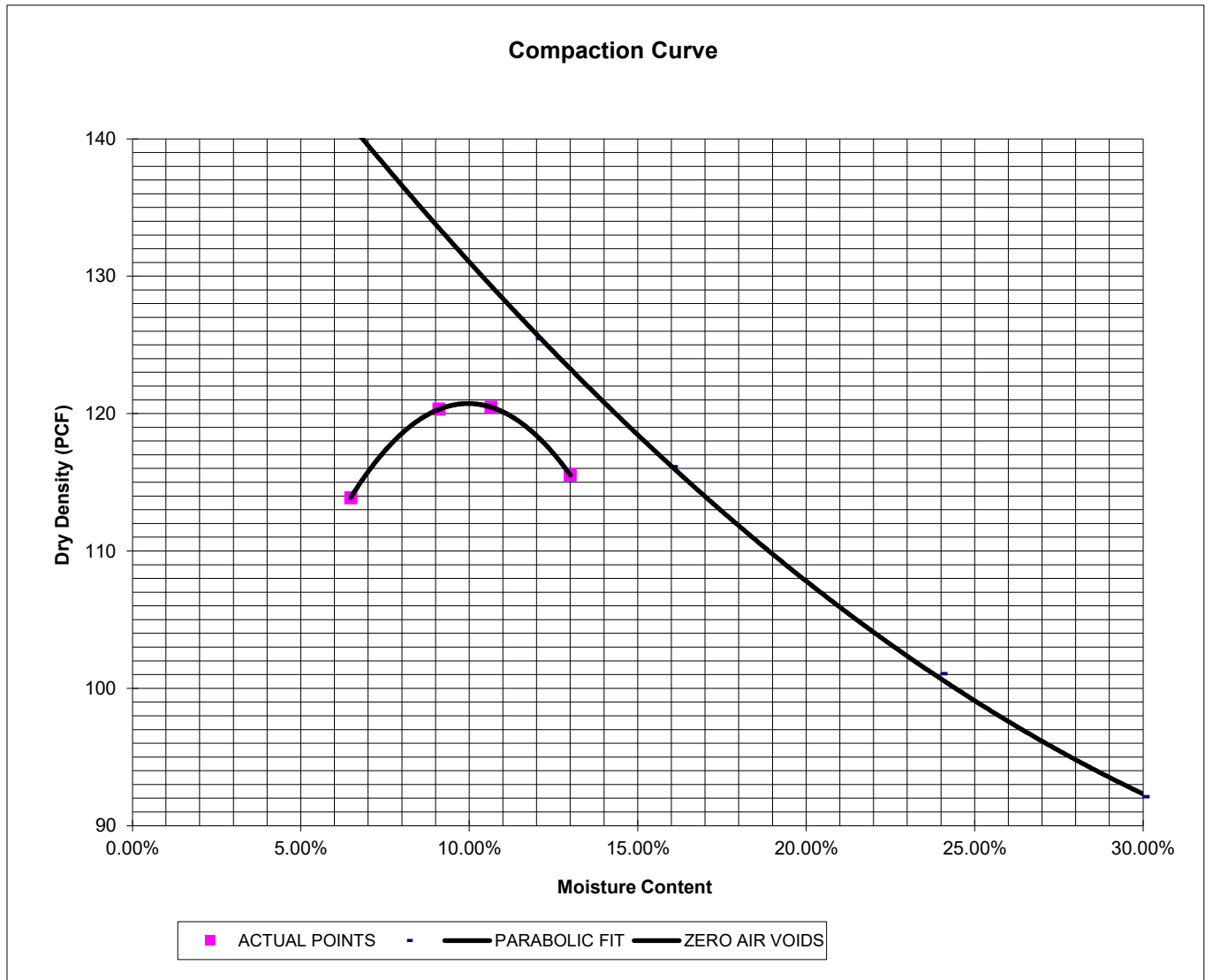
FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P2

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO.	<u>CLIENT</u>	FLYING HORSE NORTH, LLC
<u>SAMPLE LOCATION</u>	TB-3 @ 0-3'	<u>JOB NO.</u>	251790
<u>SOIL DESCRIPTION</u>	FILL, SAND, CLAYEY, BROWN	<u>DATE</u>	07/06/26

<u>IDENTIFICATION</u>	SC	<u>PROCTOR TEST #</u>	3
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	SB
<u>MAXIMUM DRY DENSITY (PCF)</u>	120.7	<u>OPTIMUM MOISTURE</u>	9.9%



MOISTURE DENSITY RELATION

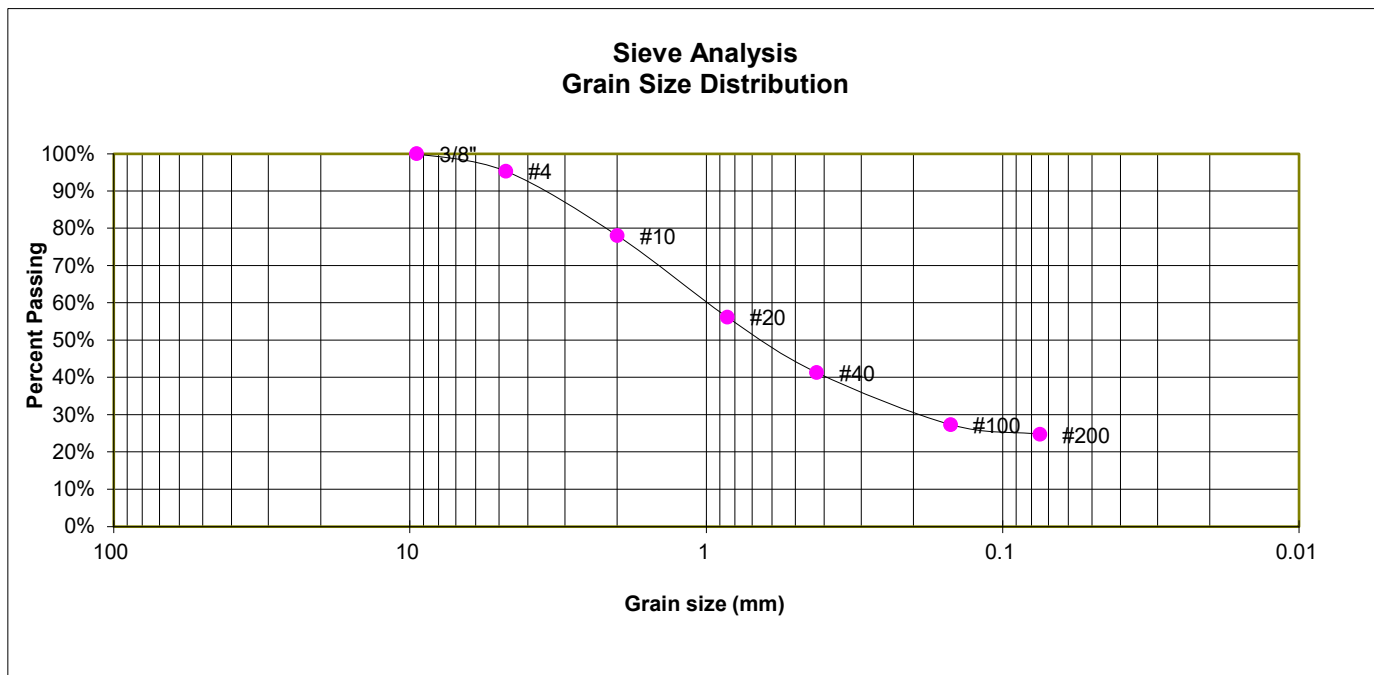
FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P3

LOCATION TB-3 @ 0-3'

SOIL DESCRIPTION FILL, SAND, CLAYEY, BROWN



**U.S.
Sieve #**

**Percent
Finer**

Atterberg Limits

Plastic Limit	22
Liquid Limit	34
Plastic Index	12

3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	95.3%
10	78.1%
20	56.2%
40	41.3%
100	27.3%
200	24.7%



LABORATORY TEST RESULTS

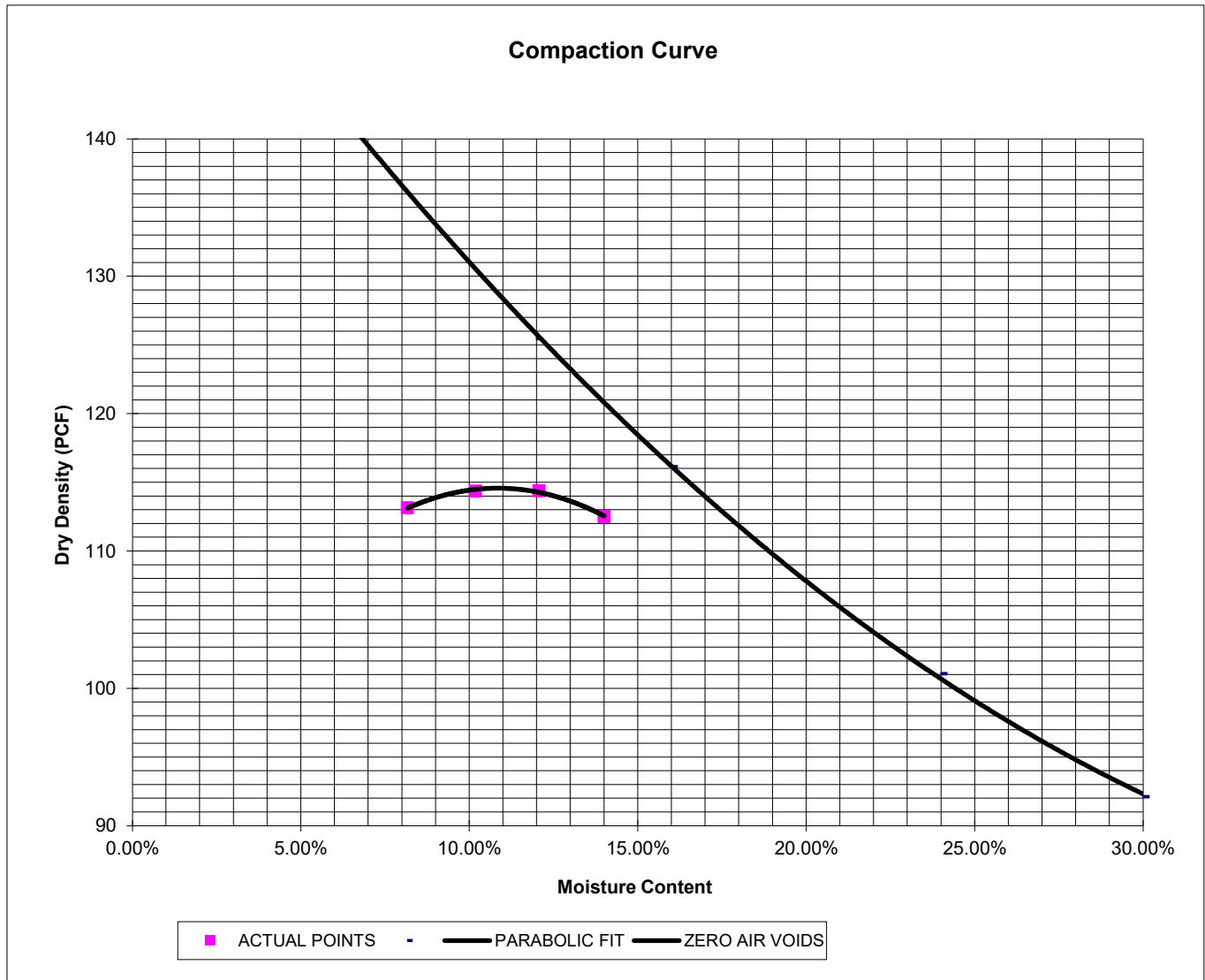
FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P3

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO.	<u>CLIENT</u>	FLYING HORSE NORTH, LLC
<u>SAMPLE LOCATION</u>	IMPORT	<u>JOB NO.</u>	251790
<u>SOIL DESCRIPTION</u>	RECYCLED CONCRETE, GRAY	<u>DATE</u>	07/07/26

<u>IDENTIFICATION</u>	SW-SM	<u>PROCTOR TEST #</u>	4
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-C	<u>TEST BY</u>	DK
<u>MAXIMUM DRY DENSITY (PCF)</u>	114.7	<u>OPTIMUM MOISTURE</u>	10.9%



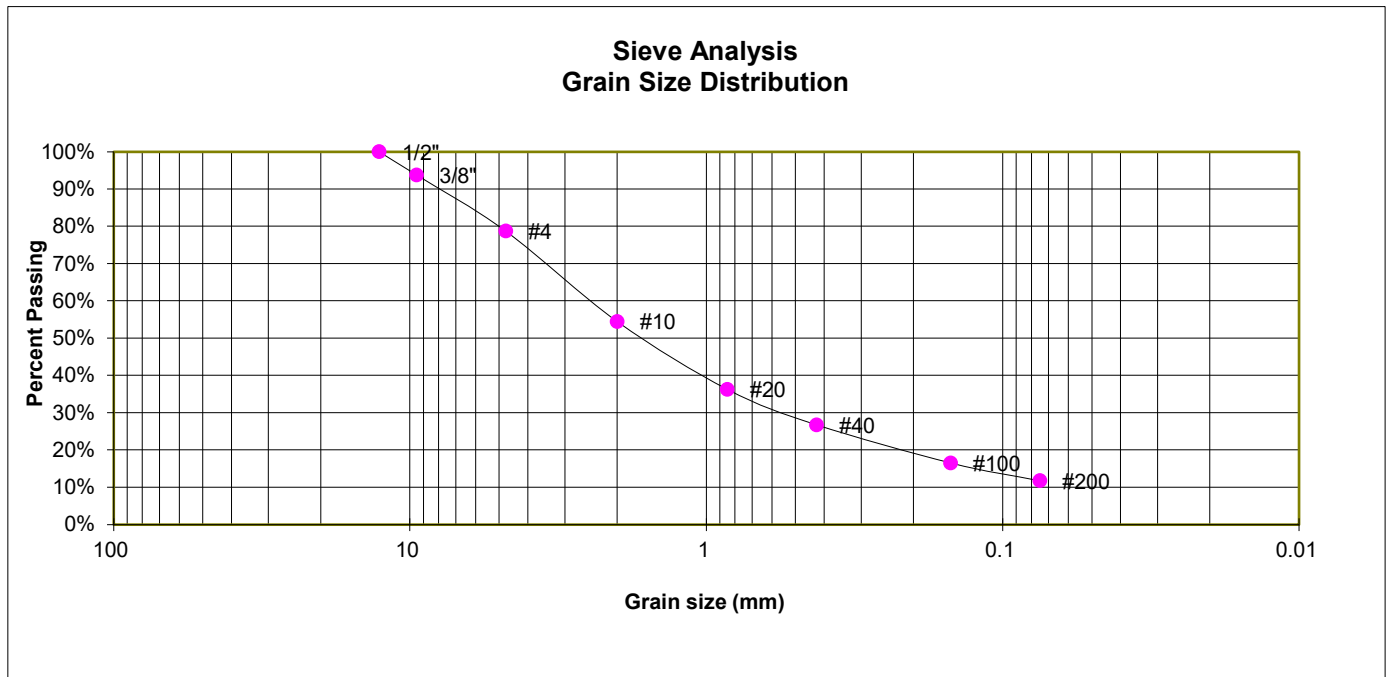
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
251790

P4

LOCATION	IMPORT	SOIL DESCRIPTION	RECYCLED CONCRETE, GRAY
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<u>U.S. Sieve #</u>	<u>Percent Finer</u>
3"	
1 1/2"	
3/4"	
1/2"	100.0%
3/8"	93.8%
4	78.7%
10	54.5%
20	36.3%
40	26.8%
100	16.5%
200	11.8%

<u>Atterberg Limits</u>	
Plastic Limit	NP
Liquid Limit	NV
Plastic Index	NP



LABORATORY TEST RESULTS

FLYING HORSE NORTH, FILING NO. 6
FLYING HORSE NORTH, LLC

JOB NO.
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P4