SOUTH RIVER ROAD – NAVAJO AVENUE TO NIBLICK ROAD

RECOMMENDATIONS

Pavement Maintenance Options (Short-Term)

For Option 1, we recommend placing a 1-1/4 inch TMO (thin maintenance overlay).

Estimated Cost: $120,000 Estimated Life Expectancy: 5-7 Years

For Option 2, we recommend placing a Cape Seal.

Estimated Cost: $106,000 Estimated Life Expectancy: 5-7 Years

Pavement Rehabilitation Options (Long-Term)

Overlay Options

For option 1, we recommend 4 inch digouts for base failures, placing a 1/2 inch HMA leveling course and a 1-3/4 inch HMA overlay.

Estimated Cost: $161,000 Estimated Life Expectancy: 10-12 Years

For option 2, we recommend 4 inch digouts for base failures, placing a 1/2 inch HMA leveling course and a 1-3/4 inch RHMA overlay.

Estimated Cost: $174,000 Estimated Life Expectancy: 10-12 Years

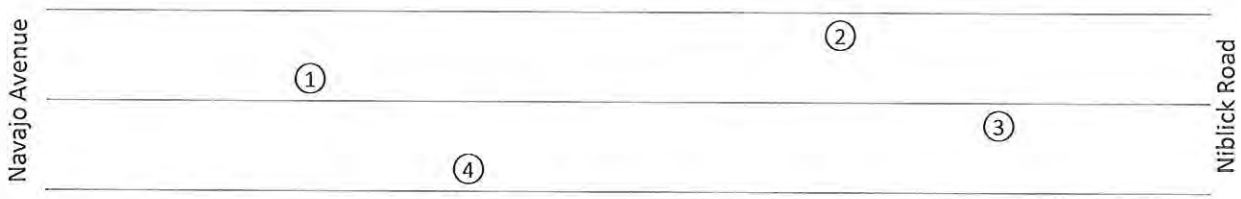
Recycle and Mill and Replace Options

Mill and replace options are not recommended because the existing pavement would be reduced to less than 2 inches in some areas. This can result in failure of the thin layer causing a significant increase in digouts.

Reconstruction Options

Reconstruction options were not evaluated for this section of road.

Pavement Engineering Inc.
Civil Engineering • Landscape Architecture
CalTrans/AMRL QC/QA • Construction Management



NOTES:
- NTS
- ACTUAL ROAD MAY NOT BE STRAIGHT
- NOT ALL ROADS CONNECTING TO THIS STREET ARE SHOWN
- WIDTH OF ROAD MAY VARY WITHIN THE BOUNDARY SECTION
- ALL LOCATIONS SHOWN ARE APPROXIMATED

South River Road

[Section of Road ≈ 1100ft]

TRAFFIC LAYOUT:
- 2-WAY STREET
- 2 LANE EACH WAY

VISUAL DESCRIPTION FOR THIS SECTION OF ROAD

The pavement exhibits moderate to severe weathering and raveling and longitudinal and transverse cracking. There was evidance of trenching and widening.

CORING LOG

Symbol	Location	Core Data		R-value
1	South of Navajo Avenue 250ft	AC	4.50"	N.A.
2	South of Navajo Avenue 750ft	AC	3.50"	N.A.
3	Norht of Niblick Road 200ft	AC	8.75"	N.A.
4	North of Niblick Road 700ft	AC	4.00"	N.A.

DEFLECTION ANALYSIS

Lane		Tolerable	TI	80th Percentile	Percent Reduction	HMA Overlay
West Bound	1	20	8.0	14.22	0.00	0.00 - inches
	2	21	8.0	10.13	0.00	0.00 - inches
East Bound	1	20	8.0	13.53	0.00	0.00 - inches
	2	21	8.0	10.92	0.00	0.00 - inches
					Overlay Required by Reflective Cracking	1.65 - inches

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20260 Skypark Drive • Redding, CA • 96002-9221 • Tel. (530) 224-4535 • Fax (530) 224-4539
3485 Sacramento Drive, Suite A • San Luis Obispo, CA • 93401-7156 • Tel. (805) 781-2265 • Fax (805) 781-2267

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04/01/13

City of Paso Robles

Road: South River
From: Niblick
To: Navajo
Lane/Line: NB

Survey Date: 03/15/13
Thickness: 0.32
Traffic Index: 8.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
11	5.17	8.29	11.75	2.19

Road Surface

Thickness	Traffic Index
0.32	8.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
21.00	10.13	11.09	0.00	0.00

HMA Overlay
0.00

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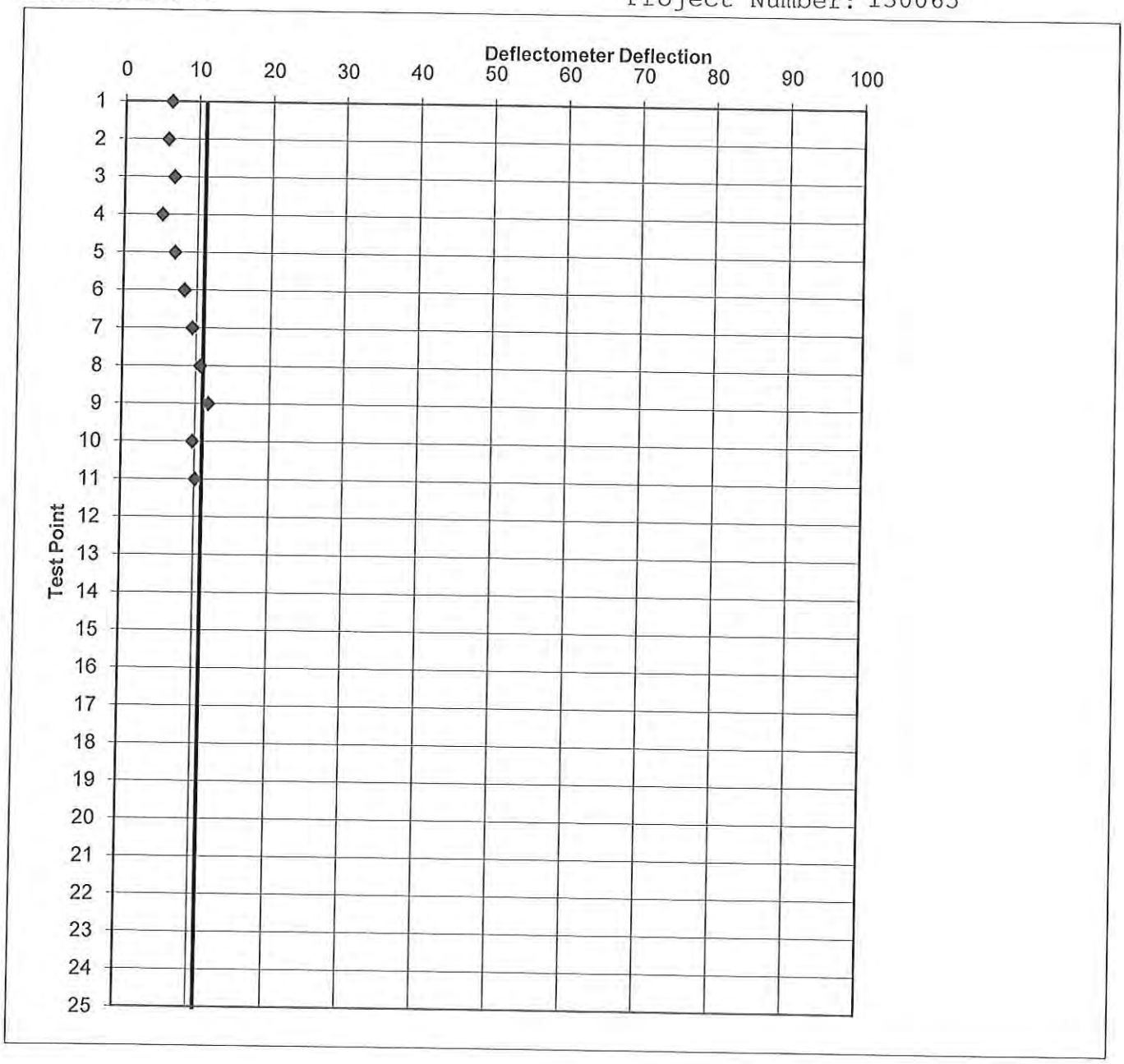

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Date: 4/1/2013

Client:	City of Paso Robles	Interval:	100
Road:	South River	Survey Date:	3/15/13
From:	Niblick	Thickness:	0.32
To:	Navajo	Traffic Index:	8.00
Lane/Line:	NB	Project Number:	130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	0.30			6.306	
2	0.28			5.852	
3	0.32			6.760	
4	0.25			5.172	
5	0.33			6.987	
6	0.39			8.348	
7	0.44			9.482	
8	0.49			10.616	
9	0.54			11.751	
10	0.45			9.709	
11	0.47			10.163	

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City of Paso Robles

Road: South River
From: Niblick
To: Navajo
Lane/Line: NB

Survey Date: 03/15/13
Thickness: 0.38
Traffic Index: 8.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
11	9.94	12.76	15.15	1.74

Road Surface

Thickness	Traffic Index
0.38	8.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
20.00	14.22	14.99	0.00	0.00

HMA Overlay
0.00

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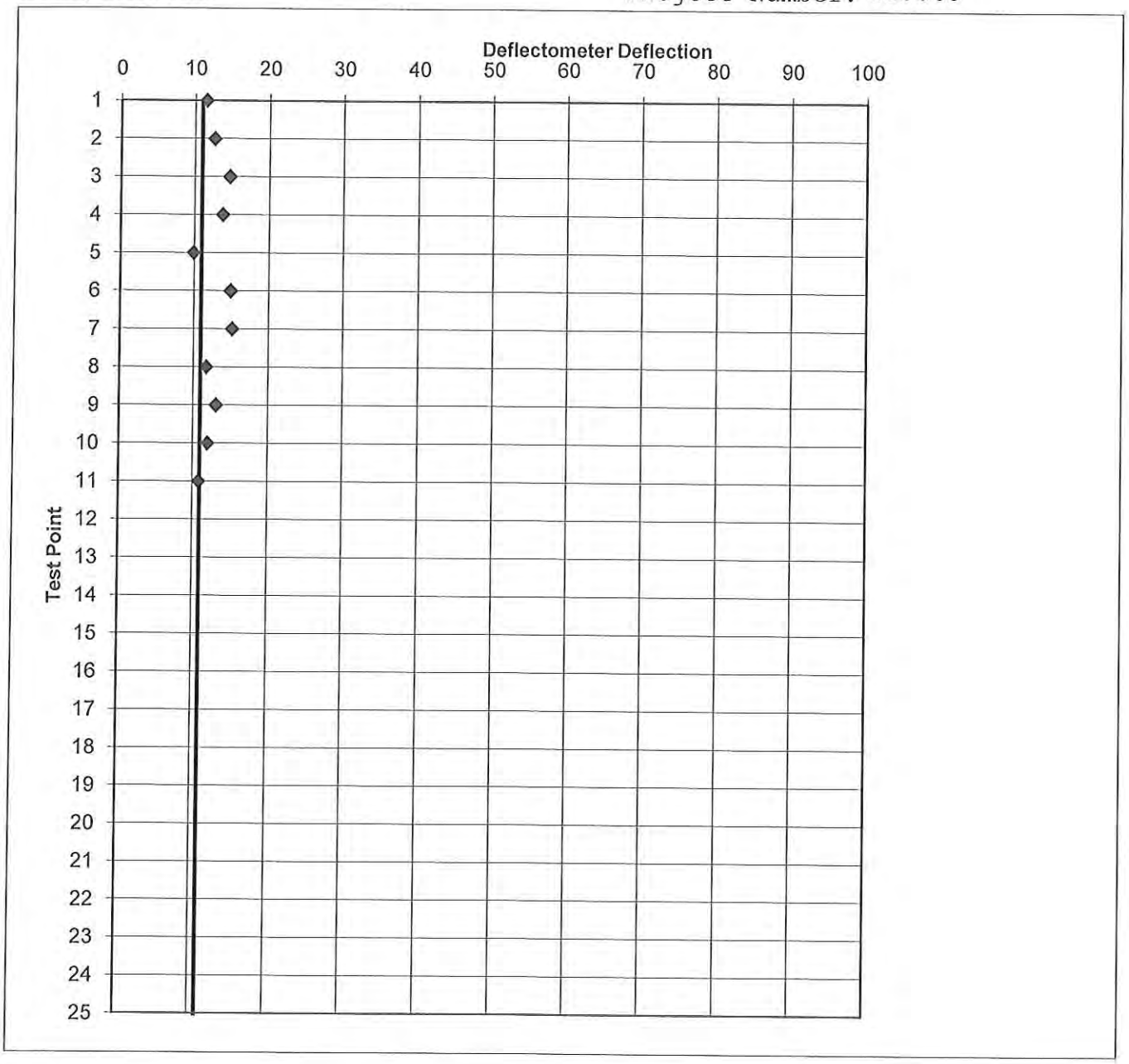
City of Paso Robles

Road: South River
From: Niblick
To: Navajo
Lane/Line: NB

Survey Date: 03/15/13
Thickness: 0.38
Traffic Index: 8.00
Project Number: 130065



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Redding (530) 224-4535 **Petaluma** (707) 769-5330 **San Luis Obispo** (805) 781-2265

Date: 4/1/2013

Client:	City of Paso Robles	Interval:	100
Road:	South River	Survey Date:	3/15/13
From:	Niblick	Thickness:	0.38
To:	Navajo	Traffic Index:	8.00
Lane/Line:	NB	Project Number:	130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	0.53			11.524	
2	0.58			12.658	
3	0.67			14.700	
4	0.63			13.793	
5	0.46			9.936	
6	0.68		Cary Street	14.927	
7	0.69			15.154	
8	0.54			11.751	
9	0.60			13.112	
10	0.55			11.978	
11	0.50			10.843	

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City of Paso Robles

Road: South River
From: Navajo
To: Niblick
Lane/Line: SB

Survey Date: 03/15/13
Thickness: 0.32
Traffic Index: 8.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
11	6.99	9.26	13.34	1.99

Road Surface

Thickness	Traffic Index
0.32	8.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
21.00	10.92	11.80	0.00	0.00

HMA Overlay
0.00

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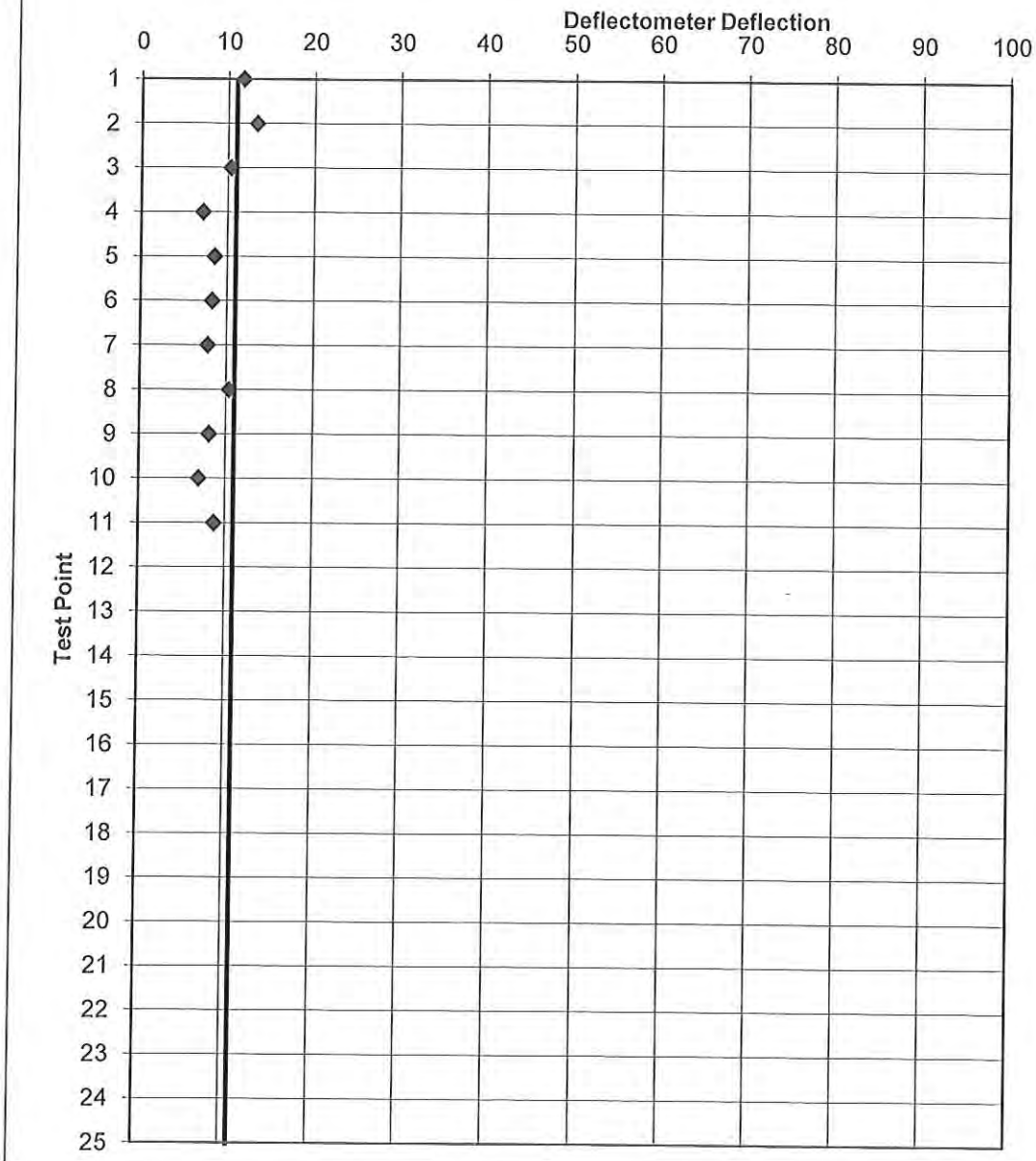

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Date: 4/1/2013

Client:	City of Paso Robles	Interval:	100
Road:	South River	Survey Date:	3/15/13
From:	Navajo	Thickness:	0.32
To:	Niblick	Traffic Index:	8.00
Lane/Line:	SB	Project Number:	130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	0.54			11.751	
2	0.61			13.339	
3	0.48			10.390	
4	0.34			7.213	
5	0.40			8.575	
6	0.39			8.348	
7	0.37			7.894	
8	0.48			10.390	
9	0.38			8.121	
10	0.33			6.987	
11	0.41			8.802	

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04/01/13

City of Paso Robles

Road: South River
From: Navajo
To: Niblick
Lane/Line: SB

Survey Date: 03/15/13
Thickness: 0.38
Traffic Index: 8.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
11	7.44	11.34	16.29	2.61

Road Surface

Thickness	Traffic Index
0.38	8.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
20.00	13.53	14.68	0.00	0.00

HMA Overlay
0.00

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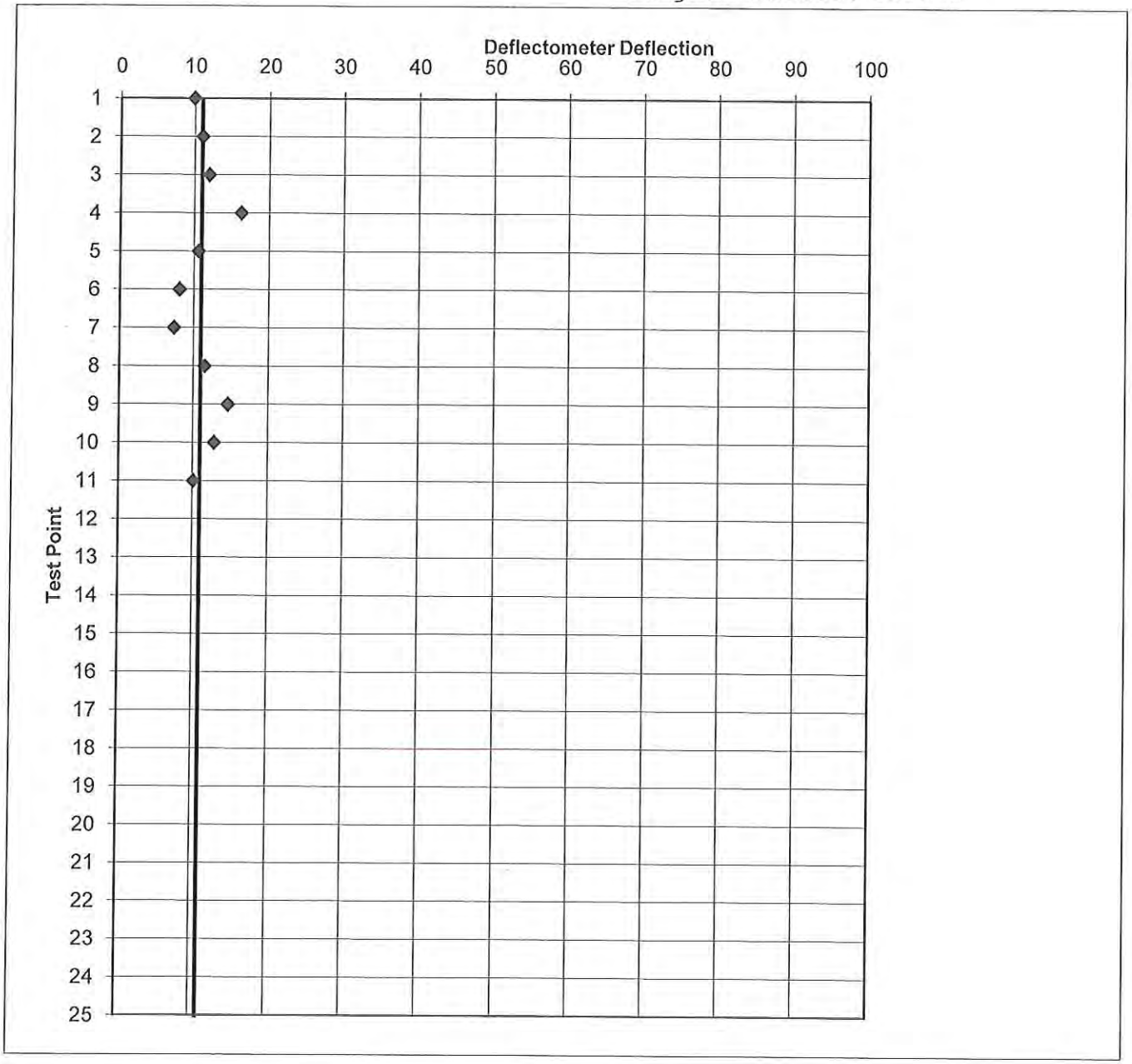

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Interval: 100
Survey Date: 3/15/13
Thickness: 0.38
Traffic Index: 8.00
Project Number: 130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	0.46			9.936	
2	0.51			11.070	
3	0.55			11.978	
4	0.74			16.288	
5	0.49			10.616	
6	0.38			8.121	
7	0.35			7.440	
8	0.53			11.524	
9	0.67			14.700	
10	0.59			12.885	
11	0.47			10.163	

SOUTH RIVER ROAD – NAVAJO AVENUE TO NIBLICK ROAD
Navajo Avenue looking Southbound

SOUTH RIVER ROAD – NAVAJO AVENUE TO NIBLICK ROAD
Niblick Road looking Northbound (SB Lanes)

SOUTH RIVER ROAD – NAVAJO AVENUE TO NIBLICK ROAD
Niblick Road looking Northbound (NB Lanes)