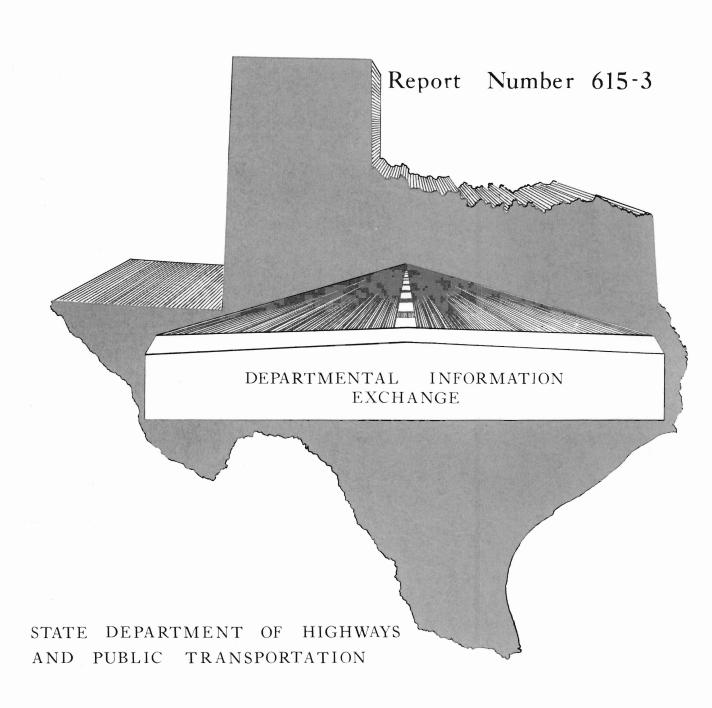
EXPERIMENTAL PROJECTS

TEST SECTIONS OF VARIOUS ASPHALTIC MIXTURES AND SPRINKLE TREATMENTS



TEST SECTIONS

0F

1006287

VARIOUS ASPHALTIC MIXTURES

AND

SPRINKLE TREATMENTS

FM 1604, Bexar County Project C 73-5-38 Contr. 2452-2-8 Contr. 2452-3-19

A FINAL REPORT

Experimental Projects Report 615-3

May 1, 1981

Prepared By Richard H. Magers Supvervising Laboratory Engineer

DISCLAIMER STATEMENT

The material contained in this report is experimental in nature and is published for informational purposes only. Any discrepancies with official views or policies of the DHT should be discussed with the appropriate Austin Division prior to implementation of the procedures or results.

Note: Data included herein incorporates that skid resistance data shown in experimental projects Report No. 615-2, dated July 1976.

ACKNOWLEDGMENT

I first met Don Frye, Sr. when I was "loaned" to the San Antonio Urban Expressway System from the Bexar County Residency in February, 1954.

I was, and continue to be, totally impressed with Don's dedication towards the department as a whole, and towards better, more economical, paving aggregates.

I replaced Don on his retirement in August 1977, and see him on occassion.

As of this writing, he and Eva are living near Harwood, outside of Luling, Texas, and enjoying his retirement.

BHM

4-8-81

As described in Report 615-1, the various test sections were placed to identify possible combinations and/or blends which could be available to the State for improving skid resistance.

The paving operations on FM 1604 were accomplished in early winter (November-December) 1974. The description of the work is covered in Report 615-1.

Skidding began in January 1975, and continued through April 1979. We had hoped to have a full five (5) year skid performance history of this work, but increased traffic, commercial development, etc. required modifications of intersections, addition of left turn lanes, channalization, etc. During the April 1979 skidding, we found we had lost two (2) test sections to improvements. When we prepared for the December 1979 skids, we found that we had lost four (4) additional test sections due to resurfacing.

As an idea of the traffic growth, the memorandum of ADT (1975 thru 1979) at Attachment B provides some indicators of San Antonio's growth. We recently surveyed the test sections to determine what, if any were left. One (1) section East Bound (EB #2) and four West Bound (WB 4, 5, 6, 7) of the original eighteen (18) test sections were all that remained.

This final report is for the purpose of providing four and one half $(4\frac{1}{2})$ years of skid resistance test data on the FM 1604. We feel that results shown warrant additional evaluation of these type surfaces.

Although we did not attempt any "silly putty" texture evaluation, visual observation still provides that in areas which were sprinkle treated, and where we had significant loss of the sprinkle rock, the pock marks left by the sprinkle rock provides some additional texturing for skid resistance.

ATTACHMENT "A"

Sheet 1 of 2

To Narrative Report of Test Sections On FM 1604

Project C 73-5-38, Bexar County

			SKID RESISTANCE	VALUES				
TEST SECTION	1-14-75	2-14-75	<u>3-17-75</u>	6 -3- 75	8-18-75	11-5-75	3-3-76	<u>5-27-76</u>
Westbound No. 1: PV 33/W Sprinkle	80	68	65	59	49	46	42	44
Westbound No. 2: PV 33 W/Sprinkle	79	60	59	64	53	46	48	50
Westbound No. 3: PV 32 W/20% Lt. Wt.	54	56	53	52	44	41	41	43
Westbound No. 4: PV 32 W/20% Lt. Wt.	54	53	5 2	51	43	40	40	41
Westbound No. 5: PV 32 W/10.8% Lt. Wt.	50	51	50	48	40	37	38	3 9
Westbound No. 6: PV 32 W/30.2% Lt. Wt.	44	49	51	47	35	33	36	37
Westbound No. 7: PV 32 W/25.2% Lt. Wt.	50	49	50	43	36	36	36	38
Westbound No. 8: PV 32 W/8.1% Lt. Wt.	47	48	46	46	38	34	35	3 9
Westbound No. 9: PV 32 Raw	52	51	49	44	39	30	28	31
Westbound No. 10: PV 33 Raw	52	47	47	43	38	32	31	31
Eastbound No. 1: PV 33 Raw	46	47	44	43	3 3	28	27	29
Eastbound No. 2: PV 32 W/20% Lt. Wt.	52	53	54	53	42	3 9	3 9	43
Eastbound No. 3: PV 35 W/20% Lt. Wt.	50	55	53	51	42	37	39	40
Eastbound No. 4: PV 33 W/Sprinkle	77	61	58	56	45	41	43	43
Eastbound No. 5: PV 33 W/Sprinkle	71	63	58	54	444	39	41	42
Eastbound No. 6: PV 33 W/Sprinkle	76	57	54	49	39	36	36	38
Eastbound No. 7: PV 33 W/Sprinkle	75	. 58	59	52	43	37	38	40
Eastbound No. 8: PV 33 W/Sprinkle	85	64	No Test Equip. Failed	59	46	43	41	46

ATTACHMENT "A"

To Narrative Report of Test Sections On

Sheet 2 of 2

FM 1604

Project C 73-5-38. Bexar County SKID RESISTANCE VALUES

9-29-76 7-25-77 3-30-78 10-20-78 TEST SECTION 3-10-77 7-12-78 Westbound No. 1: 1,5 PV 33/W Sprinkle Westbound No. 2: PV 33 W/Sprinkle Westbound No. 3: PV 32 W/20% Lt. Wt. Westbound No. 4: PV 32 W/20% Lt. Wt. Westbound No. 5: PV 32 W/10.8% Lt. Wt. Westbound No. 6: PV 32 W/30.2% Lt. Wt. Westbound No. 7: PV 32 W/25.2% Lt. Wt. Westbound No. 8: PV 32 W/8.1% Lt. Wt. Westbound No. 9: PV 32 Raw Westbound No. 10: PV 33 Raw Eastbound No. 1: PV 33 Raw Eastbound No. 2: PV 32 W/20% Lt. Wt. Eastbound No. 3: PV 35 W/20% Lt. Wt. Eastbound No. 4: PV 33 W/Sprinkle Eastbound No. 5: PV 33 W/Sprinkle Eastbound No. 6: PV 33 W/Sprinkle Eastbound No. 7: PV 33 W/Sprinkle Eastbound No. 8:

PV 33 W/Sprinkle

INTEROFFICE MEMORANDUM

TO:

Richard H. Magers

Date March 13, 1981

FROM:

Milton M. Dietert

Responsible

SUBJECT:

Average Daily Traffic at

various locations on Loop 1604

Control: 2452-2
Bexar County

Desk

Reference to your interoffice memorandum dated March 3, 1981, requesting Average Daily Traffic on Loop 1604 at various locations for years 1975 thru 1979.

Shown below is Annual Average Daily Traffic for locations indicated and years indicated.

Loop 1604 at I.H. 10 West	$\frac{1975}{6320}$	1976 6900	1977 8550	$\frac{1978}{10,010}$	$\frac{1979}{11,620}$
Loop 1604 at F.M. 1535	4960	5840	6000	6910	6580
Loop 1604 at F.M. 2696	N/A	N/A	N/A	N/A	N/A
Loop 1604 at U.S. 281 North	5240	6040	6150	7110.	6570

If we can be of further assistance, please advise.

Milton M. Dietert

MMD:CAC:vz