

Building a Super Speedway

Dan Gallagher



Gallagher Asphalt Corp.

- Family run 3rd Generation
- 3 Asphalt Plants
- Located in Thornton, Illinois



Prepare to Bid!!



- Visit Ohio Valley Asphalt – Kentucky Speedway.
- Built 18 deg slope.
- Reviewed equipment.
- Est. cost to modify equipment.... **What do you think?**

•1.5 Mile Tri-Oval



11°

18°

5°

Chicagoland Speedway

- **\$7 million**
- **75,000 grandstand seating**
- **Joliet, Illinois**
- **NASCAR (stock cars) & IRL (Indy cars)**

Start placing stone: 7/18/2000

Lime treated Sub grade

An arrow pointing from the text 'Lime treated Sub grade' to the light-colored, prepared ground surface.

**First lift of 2.5" top size Aggregate placed
4" thick**

An arrow pointing from the text 'First lift of 2.5" top size Aggregate placed 4" thick' to the layer of light-colored aggregate.

26,000 tons of stone

2000/ 7/24



2000/ 7/24





2nd lift 19,540 tons of 1.5" top size placed 3"

3rd lift 19,540 tons of 1" top size placed 3"

2000/ 8/16



Minimum of 95% compaction

2000/ 8/16

Scrimmage





5000 \ 8 \ 19

Looking Good! ...What's so tough about building a speedway?



Paving it!!!



Let's try it again... Test strip

2, 3, 4!





The team calls a time out to huddle up







27!

Who do you call.....

Chuck Deahl from Compaction America

A photograph of a construction site for a large concrete structure, likely a stadium. In the foreground, a worker in a blue hard hat and safety vest sits on a small cart. To the right, a large yellow steamroller is operating on a wet concrete surface, with steam rising from its rollers. Several other workers in safety gear are visible in the background. The scene is set against a backdrop of a large concrete wall and a cloudy sky.

Thanks APAC!

APAC Missouri Inc.

Kansas City Speedway

Back to the drawing board !

BASE/LEVEL
HMA
HIGH-BANK

$$P_b = 4.5$$

$$V_a = 3.5$$

Sands to 50:50

Target 44% P8 4-Hypac C-350D

Binder Stone
to Chips @ 50:50

Tandem



315°-325° F



2 Vibes Forward
2 Static Backward

1 - Ingersoll-Rand
DD-170

Team work & Brain Storm

Base/Inter. Course Mixture

JMF

AJMF

1" 100%

1" 100%

3/4" 95%

3/4" 97%

1/2" 80%

1/2" 83%

#4 38%

#4 44%

#8 24%

#8 27%

#16 18%

#16 21%

#50 9%

#50 9%

#100 7%

#100 6%

#200 5.2%

#200 5.2%

PG 76-22 4.5%

PG 76-22 4.5%

3500 lb.
Stability



2000/ 9/13

Back on Track



Increase roller PLI



- 10-15 Feet Per Minute



2000/ 9/10

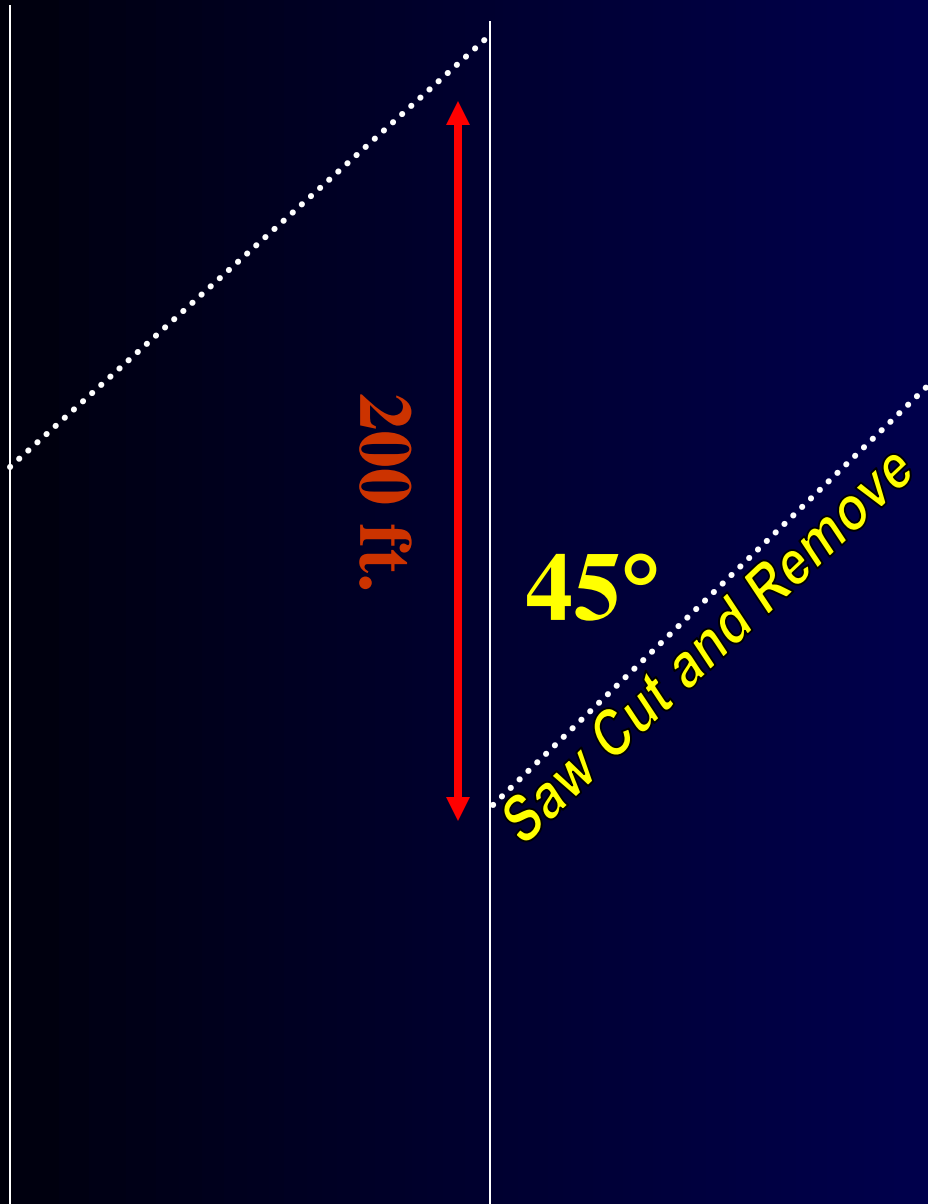
- 1 Lap Per Day

Play offs



2000/ 9/10

Transverse Joint Construction



- First Load was placed to heat equipment and get the equipment dialed in.
- Placed in back stretch



Three lifts 6-1/2" Total

- Base 2-1/2" Compacted
- Intermediate 2-1/2" Compacted
- Surface 1-1/2" Compacted

2000/ 9/28



Profile index shall be reported as the average of two adjacent test paths. Areas representing high points or low points of 0.3 inches in 25 feet shall be corrected by the contractor. This criteria shall be met regardless of the average index of the 0.1 mile section. The maximum allowable profile index for a 0.1 mile section is 12 inches per mile equivalent over a 0.1 mile stretch for the base and leveling courses, and 8 inches per mile for the wearing course.





Scott Sharp also had a chance to comment on the track after running his first laps. “This place is awesome. The track is really smooth, which is important for Indy cars. It’s extremely fast and the car gets in and out of the corners effortlessly.”

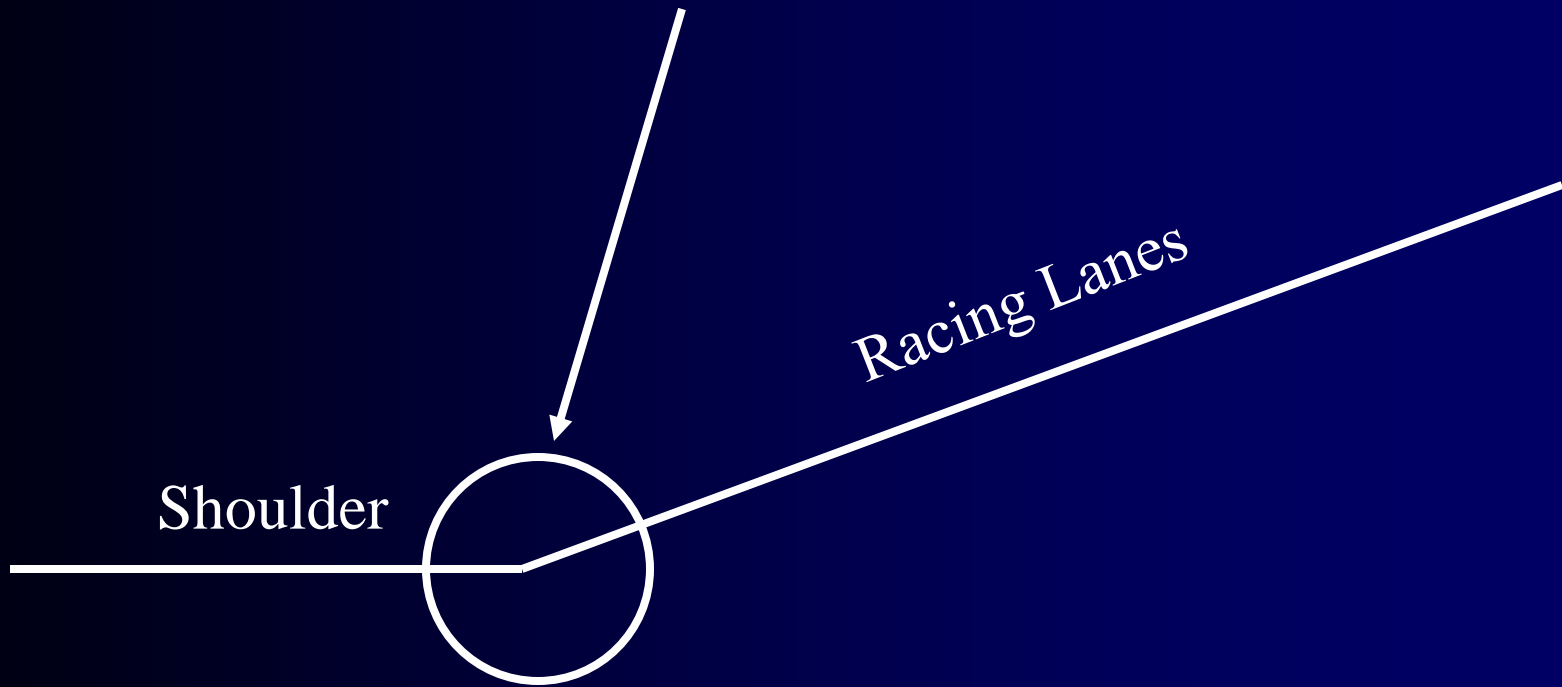
Scott Sharp



Great job, but how do I get off the track?.....

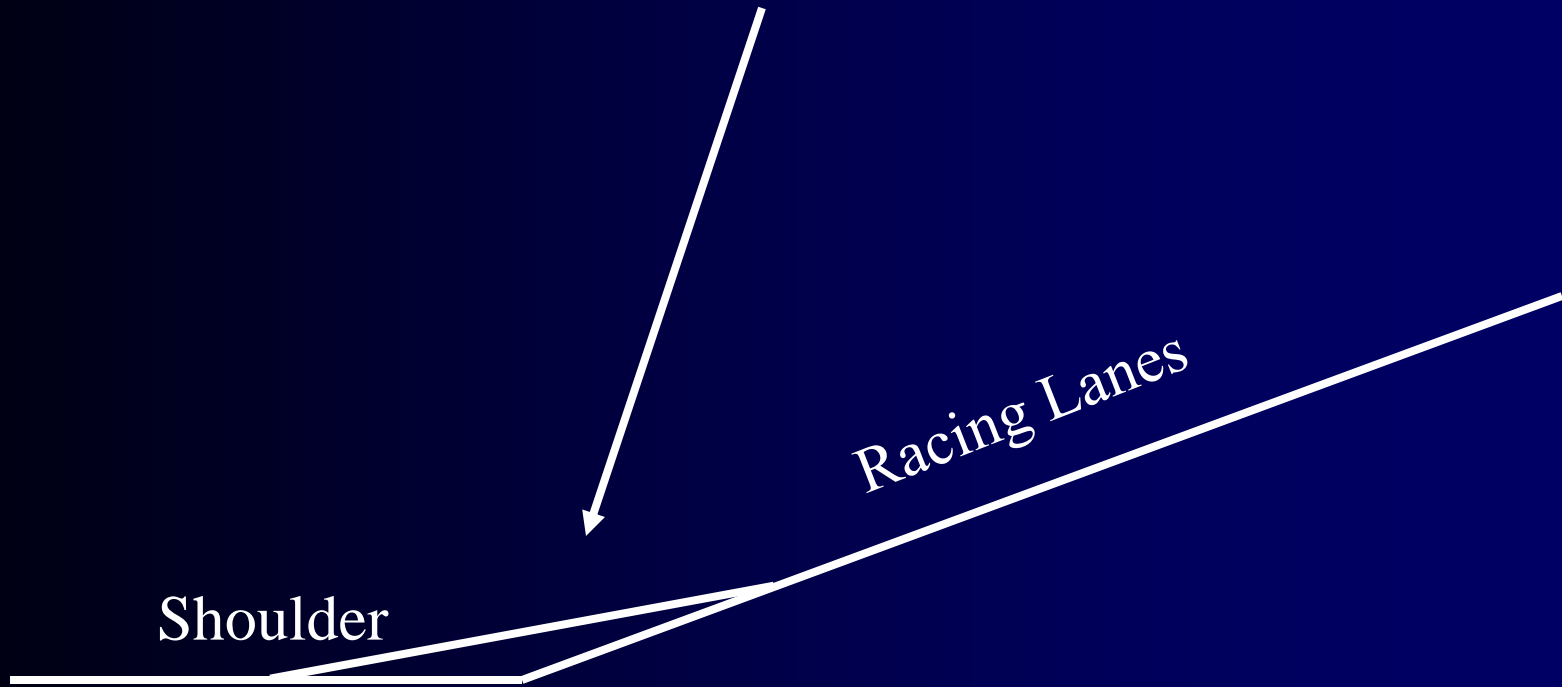
Hinge Joint

Owner said, “Oh, by the way,
how do we pave this?”



Hinge Joint

Gallagher said, "Do this!"





Racetrack Surface

- **Air cooled slag - friction**
- **85% sand**
- **PG 82-22**
- **7.5% Asphalt (oven aged)**



Surface Course Mixture

JMF

AJMF

1/2"	100%	1/2"	100%
3/8"	97%	3/8"	97%
#4	84%	#4	84%
#8	65%	#8	65%
#16	46%	#16	46%
#30	32%	#30	32%
#50	18%	#50	18%
#100	11%	#100	11%
#200	6.9%	#200	6.9%
PG 82-22	7.1%	PG 82-22	7.5%

4000 lb.
Stability

Super Bowl !



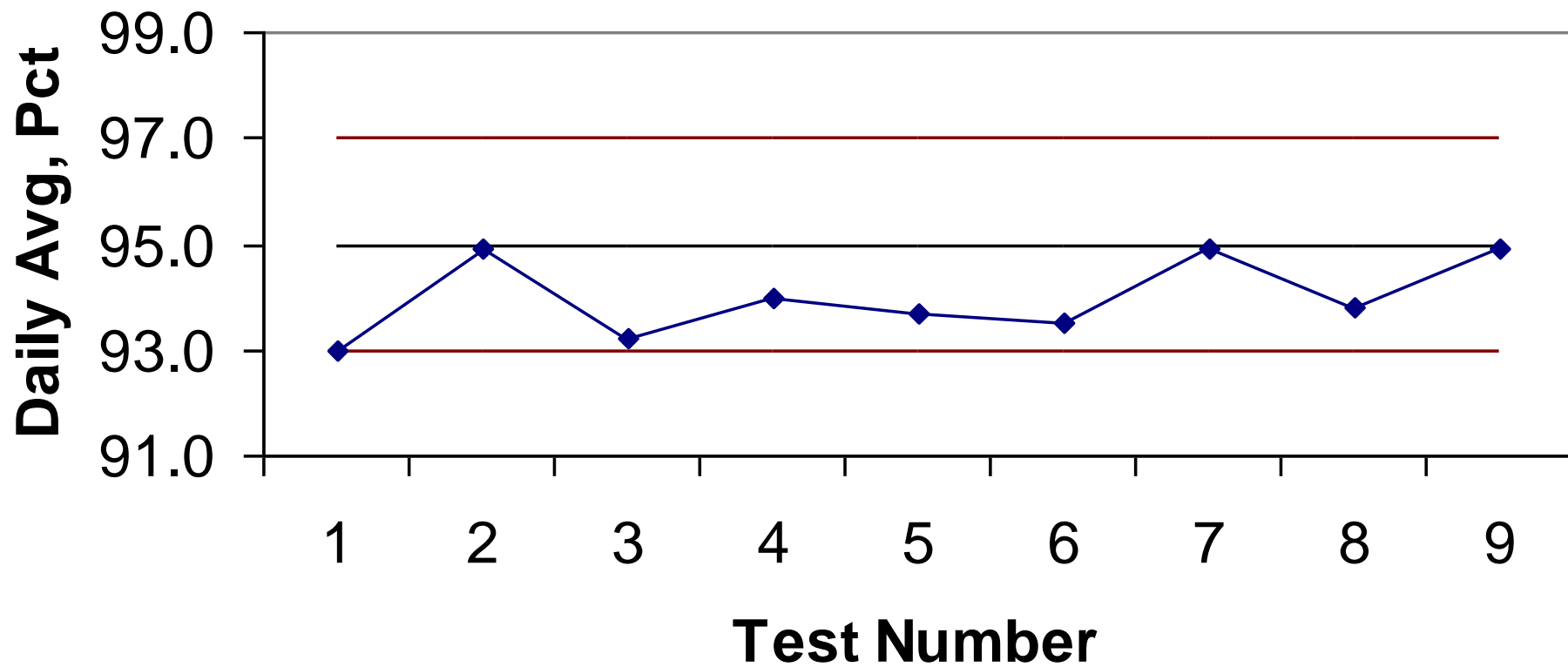




Traffic Jam at Chicagoland Speedway! 7 roller\$

Surface

In-Place Density





Touch Down !!







The Winning Super Bowl Team!



www.gallagherasphalt.com

Material Suppliers

- Seneca Petroleum
- Vulcan Materials
- Levy Slag Corp
- Marathon Ashland

Owners Reps /Engineering

- HNTB

- BOVIS

- Bob Harrington - Barrett Paving

Equipment Suppliers

- Blaw-Knox
- Compaction America
- Roadtec

Design Lab & Quality Control

- Chicago Testing Laboratory
- Frankfort Testing Laboratory
- JFG Technical Center





Asphalt Reheat Systems LLC

2534 S. FISH HATCHERY RD. MADISON, WI 53711 PHONE: 1(877)-4-REHEAT





The Roadtec SB2500 conveyor was changed from 24" X 20' to 12" X 40' to allow placement of material without trucks riding on the track.





Hey! What ever works!





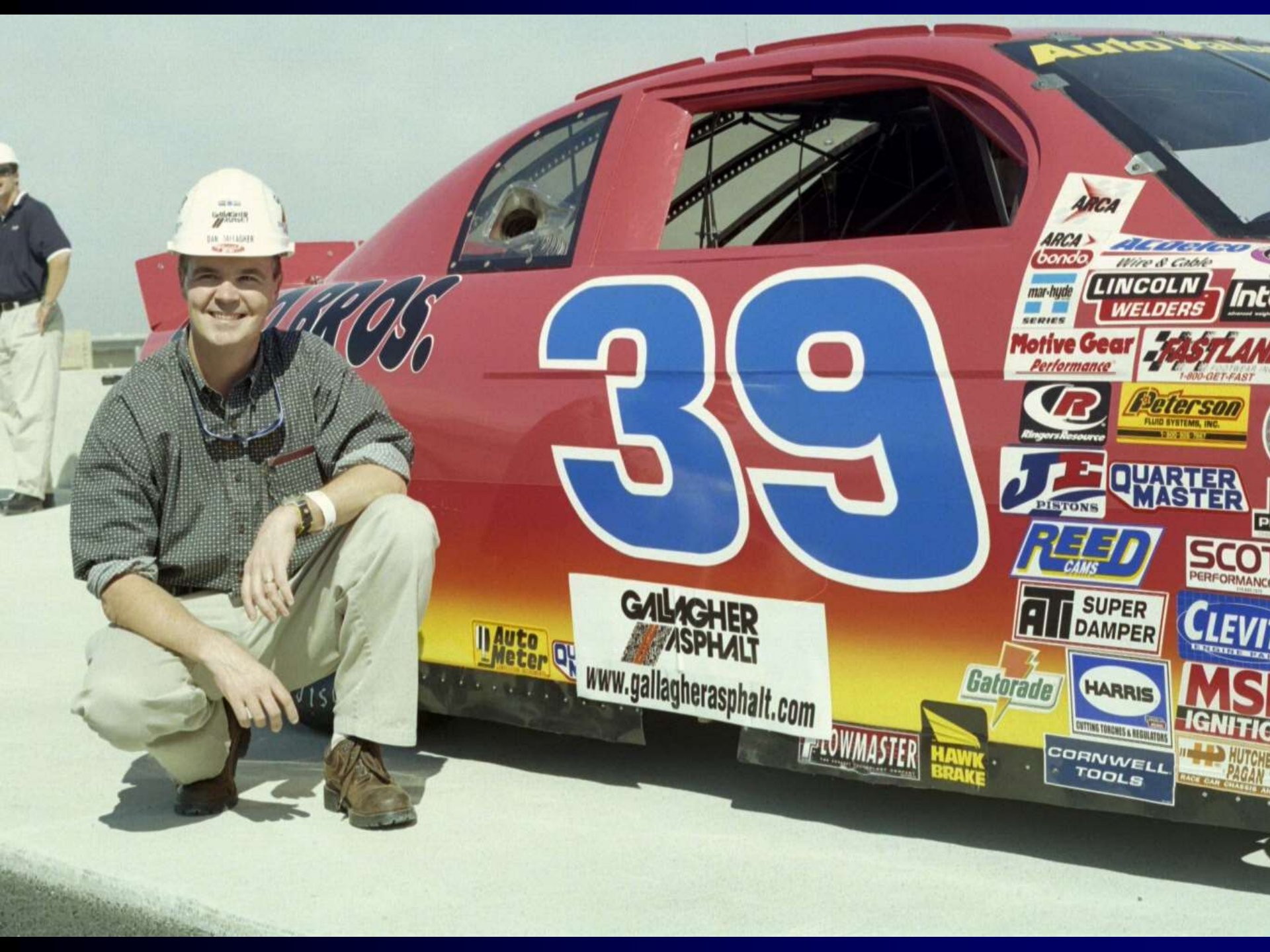


Thank you and God Bless America!



JUNE 01

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Auto Meter

LOWMASTER

HAWK BRAKE

PAVING "THE CHICAGOLAND SPEEDWAY"

OCTOBER 1, 2000

