

Draft

Carlsbad 10-18-2008

Hot applied Chip Seal

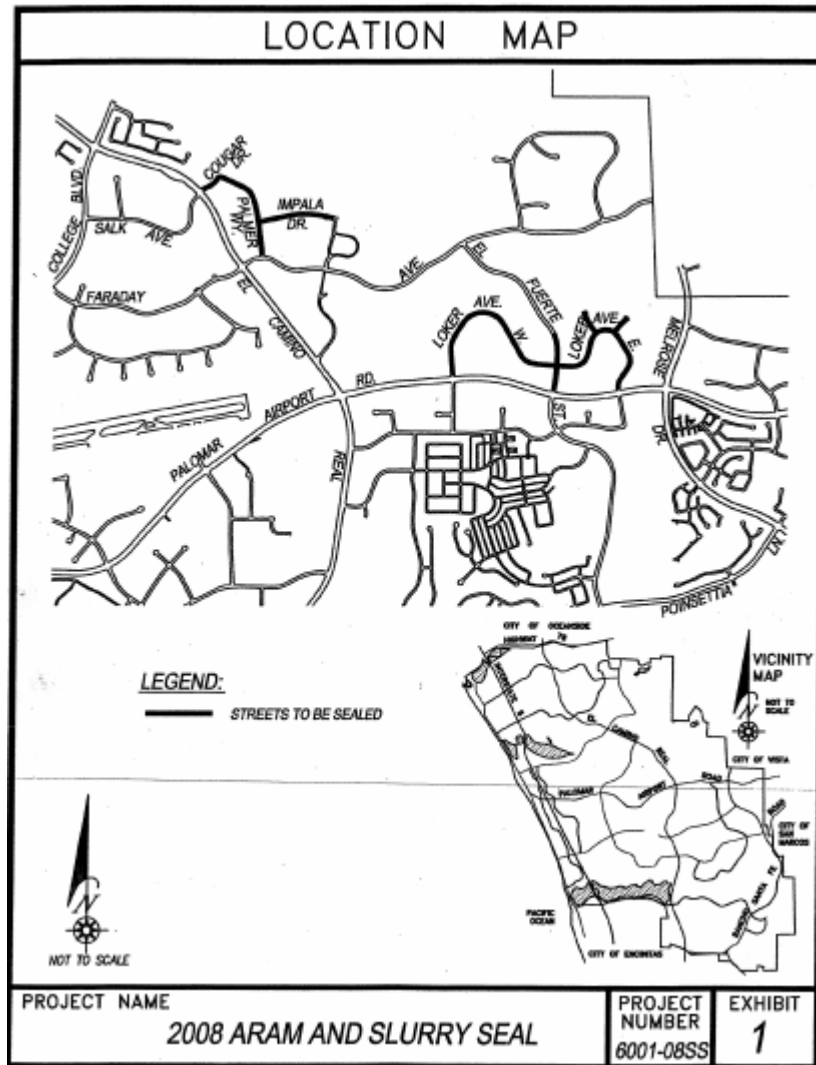
3/8" Chip (28lb/yd²)

PG70-22TR with 18.5% Rubber (0.4gal/yd²)

Slurry Seal



Cougar Dr.
 Impala Dr.
 Palmer Way.
 Loker Ave. W.
 Loker ave. E.
 El Fuerte



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Game going in a nearby Park during construction



Existing pavement condition



Existing pavement condition



Asphalt Binder Temperature PG70-22TR



Applying PG70-22TR



Chip Spreader



Detailed work



Detailed work



Compaction Rubber Roller



Compaction Steel Roller



Sweeper



Traffic during construction



Hot Chip Seal

(Before slurry seal)





a subsidiary of
ALON U.S.A.

14700 Downey Avenue
P.O. Box 1418
Paramount, CA 90723
(562) 531-2060

Product: PG70-22TR
Code No.: 13705
Date: September 8, 2008
Tank: 1013

Purchaser: _____
Destination: _____
Transporter: _____
Truck No.: _____
Bill of Lading: _____
Contract No.: _____
Purchase Order No.: _____


Meets Specifications: Paramount Petroleum Corporation.

CERTIFICATE OF COMPLIANCE

TESTS	ASTM No	AASHTO No	SPECIFICATION	RESULTS
Total Tire Rubber & Synthetic Rubber, Wt.%			18.0 min	18.5
Rotational Viscosity, 163°C, cP	D4402	T316	1000 max	395
Softening Point, °C	D36	T53	60 min	65
Elastic Recovery, 25°C, %	D6084	T301	70 min	86
Dynamic Shear, G*/Sinδ, 70°C, kPa	D7175	T315	1.00 min	1.79
Flash Point, C.O.C., °C	D92	T48	230 min	304
Solubility in Trichloroethylene, %	D2042	T44	97.5 min	98.5
API Gravity, 60 F	D70	T228	--	5.5
Specific Gravity, 60/60 F	D70	T228	--	1.0328
Pounds per Gallon @ 15.5°C				8.602
Gallons per Ton @ 15.5°C				232.5
Residue from R.T.F.O. Test:	D2872	T240		
Dynamic Shear, G*/Sinδ, 70°C, kPa	D7175	T315	2.20 min	3.47
Loss on Heating, %	D2872	T240	1.00 max	0.802
Residue from PAV Conditioning @ 110°C:	D6521	R28		
Dynamic Shear, G* Sinδ, 28°C, kPa	D7175	T315	5000 max	2428
BBR Creep Stiffness, -12°C, Mpa	D6648	T313	300 max	136
BBR m-value, -12°C	D6648	T313	0.300 min	0.331

Paramount Petroleum Corporation hereby certifies that the asphalt product accompanying this certificate was produced in accordance with an accepted certification program for suppliers of asphalt, and the above test data is representative of the shipment.

Data Compiled By: 
Asphalt Chemist

Released By: 
Refinery Shift Supervisor