Special Provisions Section 10-1.40 "EPOXY ASPHALT CONCRETE SURFACING," subsection "GENERAL," is revised as follows:

The epoxy asphalt concrete surfacing shall be placed in two (2) courses, a leveling course and a surface course to the total nominal thickness shown on the plans or as directed by the Engineer. The leveling course shall be placed to a variable thickness because of variations in the grade of the steel deck.

The seventh paragraph of Special Provisions Section 10-1.40 "EPOXY ASHALT CONCRETE SURFACING," subsection "MATERIALS," subsection "Storage, Proportioning and Mixing Materials," bullet "4. Mixing," is revised as follows:

The temperature of the aggregate at the time the epoxy asphalt binder is added shall be sufficient to result in at temperature of the mixture as it is discharged from the pug mill between 110°C and ~~121~~ 126°C.

The second paragraph of Special Provisions Section 10-1.40 "EPOXY ASHALT CONCRETE SURFACING," subsection "MATERIALS," subsection "Transporting, Spreading and Compacting," bullet "1. General," is revised as follows:

Epoxy asphalt concrete surfacing shall be placed in 2 (two) courses or as directed by the Engineer. Epoxy asphalt mixtures shall be placed only when the roadway surface is dry, the atmospheric temperature is at least 10°C, and the roadway surface temperature is above 10°C. If heavy fog, rain or temperature drop to below 10°C is imminent or might reasonably be expected before placement can be completed or dew is forming, epoxy asphalt mixtures shall not be placed.

Special Provisions Section 10-1.40 "EPOXY ASHALT CONCRETE SURFACING," subsection "MATERIALS," subsection "Transporting, Spreading and Compacting," bullet "2. Transporting," is revised as follows:

2. **Transporting** – Epoxy asphalt concrete shall be transported from the batch plant to the job site in haul trucks having tight, clean, smooth container bodies that have been oiled with a minimum amount of thin oil, as recommended by the manufacturer, to prevent adhesion of the surfacing mixture to the truck bodies. Each load of surfacing mixture shall be covered with canvas or other approved material to protect the mixture from the weather and to prevent loss of heat. Any load wetted by rain will be rejected. Haul trucks shall have tires with well-defined treads. Trucks with smooth, bald tires will not be permitted.

Each haul truck shall have three, 10 mm holes drilled in the two side walls of the truck bed through which long-stem (approximately 30 cm) thermometers can be inserted for measuring temperature of the mix in the truck. The holes shall be located 30 ± 5 cm above the bottom of the bed and located at the mid point and 60 ± 10 cm from each end of the truck bed. Before each truck leaves the batch plant long-stem thermometers shall be placed into each of the three holes in the side walls of the truck bed.

~~In order to reach the paving machine h~~Haul trucks ~~must~~ shall not pass over uncured bond coat to reach the paving machine. A material transfer vehicle could be used to deliver the epoxy asphalt concrete from the haul truck to the paving machine. ~~To minimize tracking of bond coat from the haul truck tires onto the clean steel deck or freshly paved epoxy asphalt, plywood or other suitable material shall be placed on the deck at the location haul trucks drive off of the uncured bond coat after discharging their load into the paving machine.~~

Epoxy asphalt concrete shall be discharged directly from the mixer into the hauling vehicle, except a holding container such as a front end loader or other device as approved by the Engineer may be used while verifying mix requirements prior to discharging into the hauling vehicle. The use of a storage silo to accumulate batches will not be permitted.

The allowable time between batching at the plant and placing into the paving machine at the job site is dependent upon the temperature of the batch mixture taken at the batch plant. Batches or portions thereof registering below 110°C or above ~~121~~ 126°C when discharged from the pug mill will be rejected. No load or portion of a load shall be placed after the specified reject times.

Allowable times between batching at the plant and placing into the paving machine at the job site for respective temperatures, shall conform to the following:

Time Limits For Making And Transporting Epoxy Asphalt Type V

Temperature of Mix* Degrees C	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
Maximum time in minutes	94	90	86	82	79	76	73	70	66	63	60	57	54	51	48	46	44
Minimum time in minutes	~~69~~ 60	~~66~~ 58	~~63~~ 56	~~60~~ 54	~~58~~ 52	~~55~~ 50	~~53~~ 48	~~51~~ 46	~~49~~ 44	~~48~~ 43	~~46~~ 41	~~45~~ 39	38	36	35	33	32

Notes:
1. *Temperature of Mix is average temperature of all batches in a truck load.
2. Maximum time is the longest time allowable from making first batch in a truckload to emptying truck into paving machine.
3. Minimum time is the shortest time allowable from making first batch in a truckload to emptying truck into paving machine.

The temperature of each load shall be measured as each haul truck reaches the bridge deck using the long stem thermometers that had been inserted through the holes in the truck bed side wall and into the paving mix at the batch plant. If any of the three thermometers are not embedded in the load because of the manner of placement of the load in the truck that reading shall be disregarded in calculating the average temperature. Any load with a temperature registering below 110°C or above ~~121~~ 126°C, based on the average temperature determined with these three temperature readings, will be rejected. Rejected loads shall be removed from the bridge deck.

Each haul truck shall carry a record of the average temperature of all batches in the truck and time of first and last batch into the truck. Any rise in the temperature of a batched mix of epoxy asphalt concrete at the time of placement in the paving machine shall be cause for rejection of the batch by the Engineer.

The first paragraph of Special Provisions Section 10-1.40 "EPOXY ASHALT CONCRETE SURFACING," subsection "MATERIALS," subsection "Transporting, Spreading and Compacting," bullet "3. Spreading," is revised as follows:

3. Spreading – Epoxy asphalt concrete mix shall be placed with an asphalt-paving machine as specified herein. The epoxy asphalt mix shall be deposited ~~directly~~ from the haul trucks into the hopper of the paving machine via device such as a material transfer vehicle to avoid driving directly over the bond coat. Depositing the epoxy asphalt mix in a windrow followed by pickup and placement into the hopper of the asphalt-paving machine by loading equipment will not be permitted.

The ninth paragraph of Special Provisions Section 10-1.40 "EPOXY ASHALT CONCRETE SURFACING," subsection "MATERIALS," subsection "Transporting, Spreading and Compacting," bullet "3. Spreading," is revised as follows:

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The epoxy asphalt concrete shall be placed in 2 (two) lifts or as directed by the Engineer. In areas where ~~The~~ first course (leveling course) can be placed, the leveling course shall establish a uniform finished grade within 25 mm ± 3 mm of the final grade. The final compacted thickness of the pavement shall be 50 mm ± 3 mm or as directed by the Engineer. The minimum thickness of either course shall be 19 mm and the maximum thickness shall not exceed 40mm. At locations where the epoxy asphalt concrete is required to conform to fixed objects, such as the Hinge A seismic joint, the final grade will be sloped 1:100 or as directed by the Engineer.

REGISTERED PROFESSIONAL ENGINEER
MARWAN N. NADER
No. C 054426
Exp. 12/13
CIVIL
STATE OF CALIFORNIA