

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities
Statewide Design & Engineering Services Division

TO: DISTRIBUTION

DATE: July 3, 2003

FILE NO:

TELEPHONE NO: 465-6958

FAX NUMBER: 465-2460

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FROM: Mike Downing, P.E.
Chief Engineer 

SUBJECT: Specification Transmittal
for Highways 03-02

Incorporate the attached Standard Modifications and Special Provisions to the Standard Specifications for Highway Construction (SSHC) on projects advertised after August 3, 2003.

The Standard Modifications for 1998 SSHC are:

- M 103 Updates the 1998 SSHC asphalt paving to match changes in 2002 SSHC. Adds PG 52-28 oil. Changes subplot sizes for quantities under 4,499 Mg. Adds criteria for acceptance and penalties for non-conforming asphalt mix in quantities less than 1350 Mg. Adds asphalt compaction, surface requirements, and temperature requirements to the specifications. Will strengthen the inspectors right to refuse substandard asphalt.
- M 104 Adds PG 58-28 and PG 64-28 asphalt cements.
- M105 Changes the language of guardrail post installation.
- M 106 Allows sign measurement from plans instead of requiring field measurement.
- M107 Adds square non-perforated steel tubes to sign posts.
- M 108 Requires Worksite Traffic Supervisor to personally inspect the traffic control devices and personally write a report of the inspection. Requires certification renewal every 4 years.

There are no modifications for 2001 SSHC because all new projects designed with English units should be advertised with the 2002 SSHC.

The Standard Modifications for 2002 SSHC are:

- E 02 Adds criteria for acceptance and penalties for non-conforming asphalt mix in quantities less than 1500 tons. Adds asphalt compaction, surface requirements, and temperature requirements to the specifications. Will strengthen the inspectors right to refuse substandard asphalt.
- E 03 Changes the language of guardrail post installation.

- E 04 Allows sign measurement from plans instead of requiring field measurement.
- E 05 Adds square non-perforated steel tubes to sign posts.
- E 06 Requires Worksite Traffic Supervisor to personally inspect the traffic control devices and personally write a report of the inspection. Requires certification renewal every 4 years.

The Special Provisions to be used on a project specific basis are:

- S 90 Adds a summer deadline for paving the top layer of asphalt.

SE 03 and S 91

Adds measurement of asphalt smoothness with an inertial profiler and incorporates an incentive/disincentive for smoothness. Apply this special provision when the following criteria are met:

- Road is classified as a NHS highway or as a State-owned arterial or collector highway
- There is no curb and gutter or utility grade control on pavement which precludes smoothness
- Pavement project is new construction or major rehabilitation
- Pavement has been constructed on a stable embankment and subgrade (not over permafrost or peat)
- Contract requires the Contractor to place, compact, and grade the aggregate base or ATB before final paving (except for mill and fill projects)
- Posted speed is > 40 MPH (> 65 km/h)
- Road is not in a remote location e.g. Nome, Dillingham, Bethel
- Project has more than 1500 ton (1350 Mg) of mix.

SE 04 and S 92

Adds joint density incentive/disincentive and details corrective measures to improve joints. To be used on projects with over 1500 tons (1350 Mg) asphalt mix.

- S 93 Changes PAB from fixed price to engineer's estimate. This will affect all of the pay adjustment factors. Price should include both asphalt concrete and cement, and is cost per ton (Mg) in place.
- S 94 Adds a Camp for Contractor's workers at remote locations. This specification is written to match Section 644 so that State Employees may also stay in the camp.
- S 95 Adds a Campground for Contractor's workers at remote locations. State Employees may stay at the campground but they may not receive all of the services listed in Section 644.

Attached is an updated list of approved modifications to the Standard Specifications. Note that we have a new E series of standard modifications for 2002 SSHC, the M series is only for 1998 Metric. Special Provisions apply to all projects but are marked with an SE if units make them specific to the English 2002.

Forms:

Use the attached Bidder Registration Form 25D-6 for all projects advertised after July 11, 2003. We are moving the Construction Contract Forms to the external web site, and will be updating the tables and forms in August 2003.

Attachments

DISTRIBUTION:

Pete Bednarowicz, P.E., Review Engineer, Southeast Region, MS 2506
Jim Bennett, P.E., Contracts Engineer, Northern Region, MS 2550
Dave Bloom, P.E., Preconstruction Engineer, Northern Region D&ES, MS 2550
Chuck Correa, P.E., Construction Chief, Southeast Region, MS 2506
Steve Horn, P.E., Preconstruction Engineer, Central Region D&ES, MS 2525
Pat Kemp, P.E., Preconstruction Engineer, Southeast Region D&ES, MS 2506
David Miller, Division Administrator, Federal Highway Administration
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Mark O'Brien, Chief Contracts Officer, Office of the Commissioner, MS 2500
Bob Saviers, P.E., Regional Contracts Engineer, Southeast Region, MS 2506
Sharon Smith, P.E., Chief, Contracts Section, Central Region, MS 2525
Lon Krol, P.E., Construction Chief, Northern Region, MS 2550

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-2.03 ASPHALT MATERIALS. First paragraph, second sentence, delete "AC-5" and replace with: PG 52-28.

401-3.13 COMPACTION. Add the following to the end of the first paragraph: Compact asphalt concrete mixture immediately after it is placed and spread, and as soon as it can be compacted without undue displacement, cracking or shoving. Perform initial breakdown compaction while the asphalt concrete surface mixture temperature is greater than 113°C and finish compaction before the surface temperature reaches 150°F.

Delete and Replace Subsection 401-3.15 heading with:

401-3.15 SURFACE REQUIREMENTS AND TOLERANCE. Add the following paragraphs:

The finished surface of asphalt concrete paving shall match dimensions shown on the Plans for horizontal alignment and width, profile grade and elevation, crown slope, and paving thickness. Water shall drain without puddles, across the pavement surface. The surface shall be of uniform texture and without ridges, humps, depressions, and roller marks. The surface shall be free of raveling, cracking, tearing, rutting, asphalt cement bleeding, and aggregate segregation. The asphalt concrete mixture shall be free of foreign material, uncoated aggregate and oversize aggregate.

Any finished surface area that does not meet the requirements of this Subsection is deemed unacceptable as per Subsection 105-1.11. The Engineer will determine whether the unacceptable asphalt concrete mixture shall either be corrected, or removed and replaced. Submit correction methods to the Engineer for approval prior to correction work commencing.

Add Subsection 401-3.17:

401-3.17 TEMPERATURE REQUIREMENTS. The Engineer may reject asphalt concrete mixture that is mixed, hauled, spread and placed, or compacted at a temperature outside the temperature range determined by either the Job Mix Design, by a control test strip, or by the Specifications. Rejected asphalt concrete mixture is deemed unacceptable as per Subsection 105-1.11. The Engineer will determine whether the unacceptable asphalt concrete mixture shall either be corrected, or removed and replaced.

At the Engineer's discretion, the Contractor may be allowed to compact asphalt concrete mixture that is already placed and spread but is outside the temperature range. If the compacted asphalt concrete mixture fails the Engineer's tests for acceptance, it must be removed and replaced as per Subsection 105-1.11.

401-4.02 ACCEPTANCE SAMPLING AND TESTING.

Change second paragraph, second sentence, after word "terminated," insert: either due to completion of paving operations or the end of the construction season (winter shutdown),

Delete fourth paragraph and replace with the following: If the contract quantity is between 1,350 Mg and 4,499 Mg, the contract quantity will be considered 1 lot. The lot will be divided into 10 equal sublots and randomly sampled for asphalt cement content, density, and gradation according to this Subsection except that retests will not be allowed. The lot will be evaluated for price adjustment according to Subsection 401-4.03, except that the Pay Factor will not exceed 1.00 for any sieve size, asphalt cement content, or density.

Delete fifth and sixth paragraph and replace with the following:

For contract quantity of less than 1350 Mg (and for temporary pavement), asphalt concrete pavement will be accepted for payment when the following requirements are met:

1. The Engineer approves a Job Mix Design.
2. Asphalt concrete paving mixture complies with approved Job Mix Design.

3. Final pavement thickness matches plans, and final density matches specifications.
4. Final pavement surface meets requirements of Subsection 401-3.15.

The Engineer reserves the right to perform any testing required in order to determine acceptance. If calibrated test equipment is not available, asphalt content of the mix may be determined by extraction in accordance with AASHTO T 164. When testing is required in order to determine acceptance, at least two tests shall be taken for each approved mix design.

If asphalt concrete pavement fails to meet the requirements of this Subsection, the Engineer may determine a price reduction for asphalt as per 105-1.03; or the Engineer may direct you either to correct, or to remove and replace the unacceptable area as per Subsection 105-1.11.

401-5.01 BASIS OF PAYMENT. Sixth paragraph, delete "4500" and replace with: 1350

SECTION 702
ASPHALT MATERIALS

702-2.01 ASPHALT CEMENTS. Delete first sentence and replace with: Meet AASHTO M 320 and the following:

**ADDITIONAL REQUIREMENTS FOR
PERFORMANCE GRADED ASPHALTS**

	<u>PG 58-28</u>	<u>PG 64-28</u>
Softening Point, min. (AASHTO T 53)	49 °C	52 °C
Toughness, min. (ASTM D 5801)	12.4 N-m	12.4 N-m
Tenacity, min. (ASTM D 5801)	8.5 N-m	8.5 N-m

SECTION 606

GUARDRAIL

606-3.02 POSTS. Delete the entire subsection after the first sentence, and replace with the following:

Set posts as follows:

1. Set posts plumb, in the location and to the depth shown on the Plans or Standard Drawings.
2. Choose an installation method that does not damage the post, adjacent pavement, structures, utility conduits, and final slopes. Repair all damage to the satisfaction of the Engineer, or replace the damaged item, as per subsection 105-1.11.
3. Set wood or steel posts in dug, drilled, or pre-punched holes. Steel posts may also be set by ramming or driving if:
 - a. The embankment aggregate is no larger than six inch; and
 - b. If the posts are not damaged during installation.
- c. Backfill and compact around posts with acceptable material, to firmly support the post laterally and vertically. Compact under and around posts to the Engineer's satisfaction.
6. In solid rock or in broken rock embankment, construct holes for posts, no ramming or driving in the rock will be allowed.
7. In new roads, install posts before final shoulder or median compaction, surfacing, and paving.

SECTION 615
STANDARD SIGNS

615-4.01 METHOD OF MEASUREMENT. *Under* "Standard Signs and Object Markers." *in fourth sentence delete:* "Actual areas for signs will be measured, except" *and capitalize the remaining portion:* "Octagons and round signs will be measured as rectangles."

SECTION 730
SIGN MATERIAL

730-2.04 SIGN POSTS. Add Item Number 6:

6. Square Non-Perforated Steel Tubes.
 - a. Fabricate from 0.105 inch thick cold-rolled carbon steel sheets, commercial quality, to meet ASTM A 500, Grade B. Form posts into a steel tube, roll to size, and weld in the corner. Furnish with 7/16-inch diameter holes drilled or punched as necessary to permit mounting of the sign.
 - b. Hot dip galvanize to meet AASHTO M 111 after fabrication. When cutting metal posts after hot dip galvanizing, minimize damage to the zinc coating and protect all exposed surfaces by treating the exposed area.
 - c. Repair galvanized surfaces that are abraded or damaged at any time after the application of the zinc coating to meet the applicable provisions of AASHTO M 36.

SECTION 643

TRAFFIC MAINTENANCE

643 – 1.04 WORKSITE TRAFFIC SUPERVISOR. Item 1. Qualifications, delete the last paragraph and replace it with the following:

Renew certification no less frequently than every 4 years, and be able to show their certification anytime they are on the project.

Delete Item 2.b. and replace it with the following:

b. Physically inspect the condition and position of all traffic control devices used on the project at least once each day and once each night. Ensure that traffic control devices work properly, are clean and visible, and conform to the approved TCP. Complete and sign a detailed written report of each inspection on the form provided by the Engineer within 24 hours.

Delete item 2.h. and replace it with the following:

h. Certify that all flaggers are certified as required by Subsection 643-3.04.4. Submit a copy of all flagger certifications to the Engineer.

643 – 3.04 TRAFFIC CONTROL DEVICES. Delete the sixth paragraph and replace it with the following:

Use only traffic control devices that meet the requirements of the “Acceptable” category in ATTSA “Quality Standards for Work Zone Traffic Control Devices”.

Item 4. Flagging, delete the sixth paragraph and replace it with the following:

Renew flagger training and certification no less frequently than every 4 years. Flaggers must be able to show their flagger certification anytime they are on the project.

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.13 COMPACTION. *Add the following to the end of the first paragraph:* Compact asphalt concrete mixture immediately after it is placed and spread, and as soon as it can be compacted without undue displacement, cracking or shoving. Perform initial breakdown compaction while the asphalt concrete surface mixture temperature is greater than 235°F and finish compaction before the surface temperature reaches 150°F.

Delete and Replace Subsection 401-3.15 heading with:

401-3.15 SURFACE REQUIREMENTS AND TOLERANCE. *Add the following paragraphs:*

The finished surface of asphalt concrete paving shall match dimensions shown on the Plans for horizontal alignment and width, profile grade and elevation, crown slope, and paving thickness. Water shall drain without puddles, across the pavement surface. The surface shall be of uniform texture and without ridges, humps, depressions, and roller marks. The surface shall be free of raveling, cracking, tearing, rutting, asphalt cement bleeding, and aggregate segregation. The asphalt concrete mixture shall be free of foreign material, uncoated aggregate and oversize aggregate.

Any finished surface area that does not meet the requirements of this Subsection is deemed unacceptable as per Subsection 105-1.11. The Engineer will determine whether the unacceptable asphalt concrete mixture shall either be corrected, or removed and replaced. Submit correction methods to the Engineer for approval prior to correction work commencing.

Add Subsection 401-3.17:

401-3.17 TEMPERATURE REQUIREMENTS. The Engineer may reject asphalt concrete mixture that is mixed, hauled, spread and placed, or compacted at a temperature outside the temperature range determined by either the Job Mix Design, by a control test strip, or by the Specifications. Rejected asphalt concrete mixture is deemed unacceptable as per Subsection 105-1.11. The Engineer will determine whether the unacceptable asphalt concrete mixture shall either be corrected, or removed and replaced.

At the Engineer's discretion, the Contractor may be allowed to compact asphalt concrete mixture that is already placed and spread but is outside the temperature range. If the compacted asphalt concrete mixture fails the Engineer's tests for acceptance, it must be removed and replaced as per Subsection 105-1.11.

401-4.02 ACCEPTANCE SAMPLING AND TESTING. *Delete fifth and sixth paragraph and replace with the following:*

For contract quantity of less than 1,500 tons (and for temporary pavement), asphalt concrete pavement will be accepted for payment when the following requirements are met:

1. The Engineer approves a Job Mix Design.
2. Asphalt concrete paving mixture complies with approved Job Mix Design.
3. Final pavement thickness matches plans, and final density matches specifications.
4. Final pavement surface meets requirements of Subsection 401-3.15.

The Engineer reserves the right to perform any testing required in order to determine acceptance. If calibrated test equipment is not available, asphalt content of the mix may be determined by extraction in accordance with AASHTO T 164. When testing is required in order to determine acceptance, at least two tests shall be taken for each approved mix design.

If asphalt concrete pavement fails to meet the requirements of this Subsection, the Engineer may determine a price reduction for asphalt as per 105-1.03; or the Engineer may direct you either to correct, or to remove and replace the unacceptable area as per Subsection 105-1.11.

401-5.01 BASIS OF PAYMENT. *Fourth paragraph, Item 1 delete "5000" and replace with: 1500*

SECTION 606

GUARDRAIL

606-3.02 POSTS. *Delete the third paragraph titled "Set Posts as follows" and the numbered items below the third paragraph in that Subsection, and replace with the following:*

Set posts as follows:

4. Set posts plumb, in the location and to the depth shown on the Plans or Standard Drawings.
5. Choose an installation method that does not damage the post, adjacent pavement, structures, utility conduits, and final slopes. Repair all damage to the satisfaction of the Engineer, or replace the damaged item, as per subsection 105-1.11.
6. Set wood or steel posts in dug, drilled, or pre-punched holes. Steel posts may also be set by ramming or driving if:
 - d. The embankment aggregate is no larger than six inch; and
 - e. If the posts are not damaged during installation.
- f. Backfill and compact around posts with acceptable material, to firmly support the post laterally and vertically. Compact under and around posts to the Engineer's satisfaction.
6. In solid rock or in broken rock embankment, construct holes for posts, no ramming or driving in the rock will be allowed.
7. In new roads, install posts before final shoulder or median compaction, surfacing, and paving.

SECTION 615
STANDARD SIGNS

615-4.01 METHOD OF MEASUREMENT. *Under* "Standard Signs and Object Markers." *in fourth sentence delete:* "Actual areas for signs will be measured, except" *and capitalize the remaining portion:* "Octagons and round signs will be measured as rectangles."

SECTION 730
SIGN MATERIAL

730-2.04 SIGN POSTS. *Add Item Number 6:*

6. Square Non-Perforated Steel Tubes.

- a. Fabricate from 0.105 inch thick cold-rolled carbon steel sheets, commercial quality, to meet ASTM A 500, Grade B. Form posts into a steel tube, roll to size, and weld in the corner. Furnish with 7/16-inch diameter holes drilled or punched as necessary to permit mounting of the sign.
- b. Hot dip galvanize to meet AASHTO M 111 after fabrication. When cutting metal posts after hot dip galvanizing, minimize damage to the zinc coating and protect all exposed surfaces by treating the exposed area.
- c. Repair galvanized surfaces that are abraded or damaged at any time after the application of the zinc coating to meet the applicable provisions of AASHTO M 36.

SECTION 643

TRAFFIC MAINTENANCE

643 – 1.04 WORKSITE TRAFFIC SUPERVISOR. Item 1. Qualifications, delete the last paragraph and replace it with the following:

Renew certification no less frequently than every 4 years, and be able to show their certification anytime they are on the project.

Delete Item 2.b. and replace it with the following:

b. Physically inspect the condition and position of all traffic control devices used on the project at least once each day and once each night. Ensure that traffic control devices work properly, are clean and visible, and conform to the approved TCP. Complete and sign a detailed written report of each inspection on the form provided by the Engineer within 24 hours.

Delete item 2.h. and replace it with the following:

h. Certify that all flaggers are certified as required by Subsection 643-3.04.4. Submit a copy of all flagger certifications to the Engineer.

643 – 3.04 TRAFFIC CONTROL DEVICES. Delete the sixth paragraph and replace it with the following:

Use only traffic control devices that meet the requirements of the “Acceptable” category in ATTSA “Quality Standards for Work Zone Traffic Control Devices”.

Item 4. Flagging, delete the fourth paragraph and replace it with the following:

Renew flagger training and certification no less frequently than every 4 years. Flaggers must be able to show their flagger certification anytime they are on the project.

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.01 WEATHER LIMITATIONS. *Add the following second paragraph:*

Place the top layer of paving or surface course between May 1 and _____. Place bottom and middle layers of asphalt, leveling courses, and treated bases according to the limitations of this subsection.

The designer should use the following information:

Place the appropriate date in the special provision depending on type of paving and region. The deadlines can be extended with the permission of the Regional Director. Table is for top layer and surface course paving only:

Type of Asphalt Paving or Surface Treatment

Region	Type I & II	SMA	High Float	Surface Treatments
Central	Aug 15	Aug 15	July 25	Aug 1
Northern	Aug 15	Aug 15	July 25	Aug 10
Southeastern	Sept15	Sept 1	Aug 15	Sept 1

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.15 SURFACE TOLERANCE. *Add the following as the last paragraphs:*

The Engineer will measure the surface smoothness of the top lift of the asphalt in all of the driving lanes with an inertial profiler before final acceptance of the project. The Contractor shall remove and replace, or grind any portion of final pavement surface having a smoothness Profile Index (PrI) greater than 15.0 inches/mile in a 0.10 mile segment. PrI will be calculated using a 0.2 inch/mile blanking band.

After completion of corrective work, the Engineer will measure the pavement surface with an inertial profiler for a smoothness price adjustment. No measurements will be taken in turn lanes, lane transitions, within 25 feet of bridge abutments, or within 25 feet of existing pavement that requires difficult matching.

Add the following Subsection:

401-4.04 EVALUATION OF PAVEMENT FOR SMOOTHNESS. The Engineer will calculate and apply a separate asphalt Smoothness Price Adjustment as measured in accordance with subsection 401-3.15. Calculate the smoothness price adjustment as follows;

1. Smoothness Price Adjustment (\$) = SF x PAB x PQ

If PQ is less than 1500 tons,	SF = 0
If PQ is 1500 to 5000 tons,	SF = 0.1333 – 0.01666 x (PrI)
If PQ is 5000+ tons,	SF = 0.0666 – 0.0083 x (PrI)

SF= smoothness factor
PrI = final measured pavement smoothness (inches/mile)
PAB = Price Adjustment Base, see Subsection 401-4.03
PQ = final pay quantity of 401(1) in tons

Apply the smoothness price adjustment as an incentive/disincentive under Bid item 401(6) Asphalt Price Adjustment.

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.15 SURFACE TOLERANCE. *Add the following as the last paragraphs:*

The Engineer will measure the surface smoothness of the top lift of the asphalt in all of the driving lanes with an inertial profiler before final acceptance of the project. The Contractor shall remove and replace, or grind any portion of final pavement surface having a smoothness Profile Index (Pri) greater than 230 mm/km in a 160 meters segment. Pri will be calculated using a 3.16 mm/km blanking band.

After completion of corrective work, the Engineer will measure the pavement surface with an inertial profiler for a smoothness price adjustment. No measurements will be taken in turn lanes, lane transitions, within 8 meters of bridge abutments, or within 8 meters of existing pavement that requires difficult matching.

Add the following Subsection:

401-4.04 EVALUATION OF PAVEMENT FOR SMOOTHNESS. The Engineer will calculate and apply a separate asphalt Smoothness Price Adjustment as measured in accordance with subsection 401-3.15. Calculate the smoothness price adjustment as follows;

1. Smoothness Price Adjustment (\$) = SF x PAB x PQ

If PQ is less than 1350 Mg,	SF = 0
If PQ is 1350 to 4500 Mg,	SF = 0.1333 – 0.00106 (Pri)
If PQ is 4500+ Mg,	SF = 0.0666 – 0.000532 (Pri)

SF= smoothness factor

Pri = final measured pavement smoothness (millimeters/kilometer)

PAB = Price Adjustment Base, 401-4.03

PQ = final pay quantity of 401(1) in Mg

Apply the smoothness price adjustment as an incentive/disincentive under Bid item 401(6) Asphalt Price Adjustment.

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.14 JOINTS. *Delete the last paragraph and substitute the following:*

Construct the minimum number of joints to ensure a continuous bond, texture, and smoothness between adjacent sections of the pavement. The minimum specification limit for longitudinal joint density will be 91% of the MSG of the panel completing the joint. Cut one 6 inch diameter core centered on the longitudinal joint at each location the mat is cored for acceptance density testing in the panel completing the joint. Density will be determined in accordance with WAQTC FOP for AASHTO T 166/T 275. The MSG will be determined in accordance with WAQTC FOP for AASHTO T 209.

If the average joint density for any lot is less than 91% MSG, immediately change and improve the method used for joint construction.

If the average joint density of a lot is less than 91% MSG, seal all of the joints constructed in that lot with a joint sealing method approved by the engineer. Joint sealing to occur while asphalt is clean and free of moisture, dirt or debris.

No additional cost or contract time will be paid to repair or seal joints. Seal or repair joints prior to paint striping.

401-4.01 METHOD OF MEASUREMENT. *Add the following,*

Joint Density. By the linear foot of longitudinal asphalt joints in the top pavement surface and the calculated joint density.

401-4.05 EVALUATION OF JOINTS FOR ACCEPTANCE. *Add the following:*

The Engineer will calculate an average of the required joint densities taken on the project. Apply an incentive or disincentive price adjustment as part of bid item 401(6) Asphalt Price Adjustment.

1. If less than 91% MSG apply the following disincentives:
 - a. The Contractor shall repair all of the asphalt joints on a project at the Contractor's expense with an approved asphalt joint sealing method as per 401-3.14.
 - b. $\text{Deduct} = (\$1.00 \text{ per lineal foot}) \times (\text{lineal feet of paved joint for the entire project}) \times (\text{Project Average Joint Density\%} - 91\%) \times 100$
2. If greater than 91% MSG apply the following incentive:
 - a. $\text{Add} = (\$0.25 \text{ per lineal foot}) \times (\text{lineal feet of paved joint for the entire project}) \times (\text{Project Average Joint Density\%} - 91\%) \times 100$

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-3.14 JOINTS. *Delete the last paragraph and substitute the following:*

Construct the minimum number of joints to ensure a continuous bond, texture, and smoothness between adjacent sections of the pavement. The minimum specification limit for longitudinal joint density will be 91% of the MSG of the panel completing the joint. Cut one 150 mm diameter core centered on the longitudinal joint at each location the mat is cored for acceptance density testing in the panel completing the joint. Density will be determined in accordance with WAQTC FOP for AASHTO T 166/T 275. The MSG will be determined in accordance with WAQTC FOP for AASHTO T 209.

If the average joint density for any lot is less than 91% MSG, immediately change and improve the method used for joint construction.

If the average joint density of a lot is less than 91% MSG, seal all of the joints constructed in that lot with a joint sealing method approved by the engineer. Joint sealing to occur while asphalt is clean and free of moisture, dirt or debris.

No additional cost or contract time will be paid to repair or seal joints. Seal or repair joints prior to paint striping.

401-4.01 METHOD OF MEASUREMENT. *Add the following,*

Joint Density. By the meter of longitudinal asphalt joints in the top pavement surface and the calculated joint density.

401-4.05 EVALUATION OF JOINTS FOR ACCEPTANCE. *Add the following:*

The Engineer will calculate an average of the required joint densities taken on the project. Apply an incentive or disincentive price adjustment as part of bid item 401(6) Asphalt Price Adjustment.

1. If less than 91% MSG apply the following disincentives:
 - a. The Contractor shall repair all of the asphalt joints on a project at the Contractor's expense with an approved asphalt joint sealing method as per 401-3.14.
 - b. Deduct = $(\$3.00 \text{ per meter}) \times (\text{meters of paved joint for the entire project}) \times (\text{Project Average Joint Density}\% - 91\%) \times 100$
2. If greater than 91% MSG apply the following incentive:
 - a. Add = $(\$0.75 \text{ per meter}) \times (\text{meters of paved joint for the entire project}) \times (\text{Project Average Joint Density}\% - 91\%) \times 100$

SPECIAL PROVISION
S 93 (ALL)

07/03/03

SECTION 401

ASPHALT CONCRETE PAVEMENT

401-4.03 EVALUATION OF MATERIALS FOR ACCEPTANCE. *Delete second to last paragraph and replace with:* PAB = Price Adjustment Base = Engineer's Estimate of asphalt price \$_____ per ton(Mg).

SECTION 644

SERVICES TO BE FURNISHED
BY THE CONTRACTOR

Add the following subsection:

644-2.08 CONTRACTOR CAMP. Furnish and maintain a full service camp facility, providing food and housing to all Contractor and subcontractor workers working on the project site who are not local hires.

1. Description. Meet the requirements of Alaska Administrative Code 8 AAC 61.1010 and 8 AAC 61.1040 *Occupational Safety and Health Standards*, 18 AAC 31 *Alaska Food Code*, and U.S Code of Federal Regulations 29 CFR 1910.142 *Temporary Labor Camps*. A full service camp includes:
 - a. Furnished bunkhouse shelters and clean bedding.
 - b. Central food service facility with kitchen, dining area, a camp cook and three prepared meals per worker per day.
 - c. Central common room with entertainment equipment.
 - d. Electrical power and distribution system.
 - e. Water well or holding tank, and potable water supply system.
 - f. Toilet facilities and a sewage disposal system.
 - g. Trash disposal system.
 - h. Central shower/laundry/lavatory facility with supplies including soap, towels and toilet paper.
 - i. Safety items including first aid facilities, fire alarms, smoke alarms, and fire extinguishers.
 - j. Emergency response plan and emergency evacuation plan.
 - k. Access road(s).
 - l. Camp superintendent responsible for maintenance, daily operations, supplies, safety, and reporting communicable disease.
 - m. Other facilities and services required by codes, regulations, and labor union agreements.
2. Site Development. Any State-furnished sites for the camp will be listed in the Contract documents. If a site is not listed in the Contract, locate a suitable site within 2 miles of the project. Obtain all permits and pay all fees to develop and occupy the camp site.

Perform all necessary clearing, grubbing, site preparation, and construction.

No equipment fuel storage, vehicle fueling, or equipment maintenance activities will be allowed on State-furnished sites, except for electrical generators.

Remove all facilities and regrade and revegetate the site prior to the project final inspection. Final cleanup of State-furnished sites includes removal and disposal of potable water supply, sewage disposal and power supply systems; and grading and dressing of all roadways, trails and parking sites so they are suitable for future use. A water well or empty underground sewage tank may be left in place.

3. Plan. Do not begin site development until a plan for development, occupation, and cleanup is approved by the Engineer and by other permitting agencies such as the Alaska Department of Environmental Conservation (ADEC). The plan must include the following information:
 - a. Location and size shown on a proposed site development plan (map).
 - b. Estimates of number of people to use the site and dates of occupancy.
 - c. Food Establishment Plan approved by ADEC, including three prepared meals per day.
 - d. Power supply system conforming to the National Electrical Code. Supply power to a minimum of a 20-amp outlet and lights in each room, and additional power as needed to central facilities. Supply power from 6 am to 11 pm daily except when workers are not present.
 - e. Potable water supply system approved by ADEC, able to supply a minimum of 75 gallons per worker per day, with hot water to central facilities.
 - f. Sewage disposal system approved by ADEC.

- g. Road and trail site layout.
- h. Clearing limits and slash disposal locations.
- i. Trash Disposal system approved by ADEC, consisting of burning or disposal at a licensed landfill.
- j. Generator, equipment and fuel storage areas.

For a State-furnished site, the Department may but is not required to provide the above plan in the contract documents. Obtain the Engineer's approval for any changes to the plan and incorporate any approved modifications into a revised plan.

4. Permits. The Contractor shall obtain all permits and pay all fees required, except for those already obtained by the Department. Any permits secured by the Department are shown in the Contract.

Camps for 25 workers or less may be permitted by ADEC as a Remote or Transient Camp. Camps for more than 25 workers require individual utility permits from ADEC. Obtain a solid waste disposal, drinking water system, domestic wastewater system, and food service permit from ADEC.

If the Department has secured construction approval for a public water system and/or a wastewater system from ADEC, obtain the operational approval for these systems from ADEC.

Include site development plan in Storm Water Pollution Prevention Plan (SWPPP). If required, submit a Spill Prevention Control and Countermeasure (SPCC) Plan to the Environmental Protection Agency.

5. Food and Meal Preparation. Contractor to pay a minimum of the State per diem rate for meal allowance per worker per day, for food and meal preparation. Pay at least 50% of that amount for food and drink supplies to provide three well balanced meals per day. The remaining portion may be used to pay for food shipping, food storage, meal preparation and a camp cook. If a commercial grocery store or restaurant is within five miles of camp, the contractor may allow workers to purchase their own food or meals and will give them a minimum of the State per diem rate for meal allowance.

Provide camp facilities at no cost to Contractor and subcontractor workers. You may not consider the cost of the camp in setting wages for workers or in meeting wage requirements. Camp facilities may also be required for State employees and will be paid under Bid Items 644(4) and 644(5).

644-4.01 BASIS OF PAYMENT. *Add the following:*

Contractor Camp. The lump sum price will be full compensation for all labor, equipment, and materials required to furnish, install, maintain, and remove the camp facility in accordance with these specifications and to leave the site in the specified condition.

Meals and Lodging. The lump sum price will be full compensation for all labor, equipment and materials to provide the daily operation of the camp facility including prepared meals, electricity, sewage disposal, potable water supply, trash disposal, soap, toilet paper, clean towels, and clean bedding.

Pay Item	Pay Unit
644(10) Contractor Camp	Lump Sum
644(11) Meals and Lodging	Lump Sum

SECTION 644

SERVICES TO BE FURNISHED
BY THE CONTRACTOR

Add the following subsection:

644-2.09 CONTRACTOR CAMPGROUND. Furnish and maintain a full service or a temporary campground, for Contractor and subcontractor workers working on the project site who are not local hires.

1. Description. Meet the requirements of Alaska Administrative Code 8 AAC 61.1010 and 8 AAC 61.1040 *Occupational Safety and Health Standards*, 18 AAC 31 *Alaska Food Code*, and U.S Code of Federal Regulations 29 CFR 1910.142 *Temporary Labor Camps*. A full service campground includes:
 - a. Contractor furnishes campsites. Workers furnish their own shelter and bedding.
 - b. Contractor supplies food for three meals per worker per day. Workers prepare meals in their own kitchen or in a central common cooking area.
 - c. Central common room with entertainment equipment.
 - d. Electrical power and distribution system.
 - e. Water well or holding tank, and potable water supply system.
 - f. Toilet facilities and a sewage disposal system, may also include a separate gray water disposal.
 - g. Trash disposal system.
 - h. Central shower/laundry/lavatory facility with supplies including soap, towels and toilet paper.
 - i. Safety items including first aid facilities, fire alarms, smoke alarms, and fire extinguishers.
 - j. Emergency response plan and emergency evacuation plan.
 - k. Access road(s).
 - l. Camp superintendent responsible for maintenance, daily operations, supplies, safety, and reporting communicable disease.
 - m. Other facilities and services required by codes, regulations, and labor union agreements.
2. Site Development. Any State-furnished sites for the campground will be listed in the Contract documents. If a site is not listed in the Contract, locate a suitable site within 2 miles of the project. Obtain all permits and pay all fees to develop and occupy the campground.

Perform all necessary clearing, grubbing, site preparation, and construction. Provide a campsite for each individual worker.

No equipment fuel storage, vehicle fueling, or equipment maintenance activities will be allowed on State-furnished sites, except for electrical generators.

Remove all facilities and regrade and revegetate the site prior to the project final inspection. Final cleanup of State-furnished sites includes removal and disposal of potable water supply, sewage disposal and power supply systems; and grading and dressing of all roadways, trails and parking sites so they are suitable for future use. A water well or empty underground sewage tank may be left in place.

3. Plan. Do not begin site development until a plan for development, occupation, and cleanup is approved by the Engineer and by other permitting agencies such as the Alaska Department of Environmental Conservation (ADEC). The plan must include the following information:
 - a. Location and size shown on a proposed site development plan (map).
 - b. Estimates of number of people to use the site and dates of occupancy.
 - c. Food Establishment Plan approved by ADEC, includes food storage and distribution.
 - d. Power supply system conforming to the National Electrical Code. Supply a minimum of 20-amp power service to each campsite, and additional power as needed to central facilities. Supply power from 6 am to 11 pm daily except when workers are not present.

- e. Potable water supply system approved by ADEC to each campsite, able to supply a minimum of 75 gallons per worker per day, with hot water to central facilities.
- f. Sewage and gray water disposal system approved by ADEC to each campsite.
- g. Road and trail site layout.
- h. Clearing limits and slash disposal locations.
- i. Trash Disposal system approved by ADEC, consisting of burning or disposal at a licensed landfill.
- j. Generator, equipment and fuel storage areas.

For a State-furnished site, the Department may but is not required to provide the above plan in the contract documents. Obtain the Engineer's approval for any changes to the plan and incorporate any approved modifications into a revised plan.

4. Permits. The Contractor shall obtain all permits and pay all fees required, except for those already obtained by the Department. Any permits secured by the Department are shown in the Contract.

Camps for 25 workers or less may be permitted by ADEC as a Remote or Transient Camp. Camps for more than 25 workers require individual utility permits from ADEC. Obtain a solid waste disposal, drinking water system, domestic wastewater system, and food service permit from ADEC.

If the Department has secured construction approval for a public water system and/or a wastewater system from ADEC, obtain the operational approval for these systems from ADEC.

Include site development plan in Storm Water Pollution Prevention Plan (SWPPP). If required, submit a Spill Prevention Control and Countermeasure (SPCC) Plan to the Environmental Protection Agency.

5. Food and Meal Preparation. Contractor to pay a minimum of the State per diem rate for meal allowance per worker per day, for food and meal preparation. Pay at least 50% of that amount for food and drink supplies to provide three well balanced meals per day. The remaining portion may be used to pay for food shipping, food storage, meal preparation and a camp cook. If no camp cook or meal preparation is provided, pay at least 75% for food and drink supplies. If a commercial grocery store or restaurant is within five miles of camp, the contractor may allow workers to purchase their own food or meals and will give them a minimum of the State per diem rate for meal allowance.

Provide campgrounds at no cost to Contractor and subcontractor workers. You may not consider the cost of the campground in setting wages for workers or in meeting wage requirements.

Campgrounds may also be required for State employees and will be paid under Bid Items 644(4) and 644(5). State employees will be supplied with all the requirements of Subsection 604-2.04, except item 2 state employees will prepare their own meals with food the Contractor provides.

644-4.01 BASIS OF PAYMENT. *Add the following:*

Full Service Campground. The lump sum price will be full compensation for all labor, equipment, and materials required to furnish, install, maintain, and remove all campgrounds in accordance with these specifications and to leave the site in the specified condition.

Temporary Campground. The lump sum price will be full compensation for all labor, equipment, and materials required to furnish, install, maintain, and remove all campgrounds in accordance with these specifications and to leave the site in the specified condition, except for the following modifications:

Delete Item 1.c. Common entertainment room does not have to be provided.

Modify Item 3.d. Only require electric power to central facilities.

Modify Item 3.e. Only require potable water to central facilities and to within 100 feet of shelters.

Modify Item 3.f. Only require sewage to central facilities and within 200 feet of shelters.

Food and Campground Operations. The lump sum price will be full compensation for all labor, equipment and materials to provide the daily operation of the campground and central facilities, including supply and store food, electricity, sewage disposal, potable water supply, trash disposal, soap, toilet paper and clean towels.

Pay Item	Pay Unit
644(12) Full Service Campground	Lump Sum
644(13) Temporary Campground	Lump Sum
644(14) Food and Campground Operations	Lump Sum