STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND
PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION

JUNEAU, ALASKA

DOUGLAS HIGHWAY
GASTINEAU CHANNEL BRIDGE TO ST. ANN'S AVE.
PAVEMENT REHABILITATION

STP-0958(11)
PROJECT NO. 71661

DESIGN DESIGNATION
JUNEAU DOUGLAS BRIDGE TO CORDOVA STREET
ADT 1994 9,400
ADT 2004 1,450
% T 3.4%
V 30 MPH

CORDOVA STREET TO ST. ANN'S AVENUE
ADT 1994 6,700
ADT 2004 6,200
HBV 1,950
% T 3.4%
V 40 MPH

PROJECT SUMMARY
WIDTH OF PAVING VARIIES
LENGTH OF PAVING 11,832 (2.2 MILES)
LENGTH OF PROJECT 11,832 (2.2 MILES)

SIGHT DISTANCE
VPI Sta. TYPE EXISTING AASHTO
84+51 SAG 252 325
84+75 CREST 254 325

AS-BUILT PLANS
Contractor: SECON INC.
Project Engineer: FRANK MURPHY
Begin Date: June 2, 1995
End Date: September 10, 1995

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN SECTION

APPROVED
Date

APPROVED
Date

AS-BUILT

DATE: 1995
SHEET: 1 OF 21
STATIONS "AS BUILT" 94+39.14 TO "AS BUILT" 115+00

"R" LINE
FULL LANE WIDTHS SECTION @ INTERSECTION
STATIONS "R" 12+03.36 TO "R" 15+80.83

"S" LINE
TYPICAL SECTION (DOUGLAS APPROACH)
Stations "S" 10+00.00 to "S" 15+80.83

LABELING INDEX
1 1/4" COLD PLANNING
2 1 1/4" HOT ASPHALT PAVEMENT
3 1 1/2" HOT ASPHALT PAVEMENT
4 STV-1 ASPHALT FOR ENCORE COAT (UNDER LEVELING COURSE AND UNDER OVERLAY)
5 1/2" COLD PLANNING
6 3/4" HOT ASPHALT PAVEMENT

"S" LINE
TYPICAL SECTION (KOWEE CREEK)
Stations "S" 15+80.83 to "S" 25+14.12
(NORTH DOUGLAS ROAD)

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS
### Estimate of Quantities

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Pay Item</th>
<th>Pay Unit</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>20325</td>
<td>Drive Adjustment</td>
<td>Contingent Sum</td>
<td>All Required</td>
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<tr>
<td>40215</td>
<td>Asphalt Reconditioning</td>
<td>Linear Foot</td>
<td>206.36</td>
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<tr>
<td>40216</td>
<td>Bitumen Emulsion</td>
<td>Ton</td>
<td>36,000 lb/ton</td>
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<tr>
<td>40217</td>
<td>PBA-2 Asphalt</td>
<td>Ton</td>
<td>1000 lb/ton</td>
</tr>
<tr>
<td>40218</td>
<td>Chip &amp; Dust</td>
<td>Yd³</td>
<td>3000 yd³</td>
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</table>

### Adjust Valve Box Summary

#### Station Offset Remarks
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87

### Manhole Adjustment Summary

#### Station Offset Remarks
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87
- ST 062.87 1112 11.87

### Basics of Estimate

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Pay Item</th>
<th>Estimating Factor</th>
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<tbody>
<tr>
<td>40101</td>
<td>Asphalt Concrete, Type I</td>
<td>115.48/52.97/10.79, 80s/60s/50s</td>
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<tr>
<td>40102</td>
<td>PBA-2 Asphalt</td>
<td>68% of Item 40101, Type I</td>
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<tr>
<td>40103</td>
<td>StE-1 Asbestos for Tack Coat</td>
<td>0.07 gal/50 lb to 255 gal/ton 60s</td>
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</table>

### Notes
- Do not scale from these plans—use dimensions as-built.
<table>
<thead>
<tr>
<th>STATION</th>
<th>OFFSET</th>
<th>CODE NO.</th>
<th>LEGEND</th>
<th>SIZE IN.</th>
<th>AREA S.F.</th>
<th>TRAFFIC</th>
<th>NO. OF POSTS</th>
<th>POST SIZE IN.</th>
<th>REMARKS</th>
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<td>1</td>
<td>712.111</td>
<td>BT1-1</td>
<td>BIKE ROUTE</td>
<td>24411</td>
<td>5.0</td>
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<td>2</td>
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<td>2</td>
<td>INSTALL BELOW BIKE ROUTE</td>
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</table>

**NOTE:** DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS.
# SIGNING SCHEDULE

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>STATION</th>
<th>OFFSET CODE NO.</th>
<th>LEGEND</th>
<th>SIZE (IN)</th>
<th>AREA S.F.</th>
<th>FACING TRAFFIC</th>
<th>NO. OF POSTS</th>
<th>POST SIZE (IN)</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>125</td>
<td>A+02+00</td>
<td>x</td>
<td>BUS STOP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MOVE SIGN UP ON EXISTING POST</td>
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<td>126</td>
<td>A+02+00</td>
<td>x</td>
<td>None</td>
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<td></td>
<td></td>
<td></td>
<td>REMOVE NULLITY SIGN POST</td>
</tr>
<tr>
<td>127</td>
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<td>x</td>
<td>School Crossing 30'6</td>
<td>30'6</td>
<td>8.0</td>
<td>No</td>
<td>Install new 2.5 inch pipe sign brackets</td>
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<td>Right 23</td>
<td>23</td>
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<td>Install above stop</td>
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<td>139</td>
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<td>27</td>
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<td>Install above stop</td>
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<tr>
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<td>1.33</td>
<td>Same</td>
<td>Install above stop</td>
<td></td>
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</tr>
</tbody>
</table>

**GENERAL SIGNING NOTES**

1. SIGN LOCATIONS ARE APPROXIMATELY ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. ALL EXISTING SIGNS SHALL BE REMOVED AND SALVAGED AND DELIVERED TO THE DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AT MILE 7 OLD GLACIER HIGHWAY.
3. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED STEEL. THE 1 1/2" DIAMETER SHALL BE USED ABOVE GROUND AND THE 2 1/2" DIAMETER SHALL BE USED BELOW GROUND.
4. ALL 53-1 STREETS NAME SIGNS SHALL HAVE THE LEGEND ON BOTH SIDES.
5. ALL 53-1 STREETS NAME SIGNS SHALL BE EXTRUDED ALUMINUM PANELS.
6. ALL PARKING SIGNS SHALL FACE 45 DEGREES TO TRAFFIC.

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**SIGNING SUMMARIES**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**

**SOUTHEAST REGION DESIGN & CONSTRUCTION**

**STATE OF ALASKA**

**JUNEAU**

**DOUGLAS HIGHWAY PAVEMENT REHABILITATION**

**PROJECT NO. 71681**

**ALASKA**

**DESIGNED BY:** T. MUROE

**DRAWN BY:** T. KLEMMERSON

**CHECKED BY:** T. MUROE

**PROJECT NO.:** 71681

**DATE:** 1/28/95

**SHEET:** 9 OR 21

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**RECORD OF REVISIONS**

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**PLAN**

**SECTION**

**MONUMENT AND VALVE BOX ENCAVESMENT DETAIL**

**USED**

**ALTERNATE METHOD: PAINT AROUND AND SEAL EDGE WITH RUBBERIZED ASPHALTIC MASTIC THAT HAS BEEN GROOVED INTO ASPHALT CONCRETE 1 INCH AROUND METAL FLANGE CONTRACTOR TO SUBMIT DETAIL FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.**

**AS BUILT**

**NOTE:** DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS
TRAFFIC CONTROL NOTES

1. SEE SECTION 643-3.08 OF THE SPECIAL PROVISIONS FOR RESTRICTIONS ON LANE CLOSURES.

2. WORK ZONE TRAFFIC CONTROL SHALL NOT BE SET UP FOR A GREATER DISTANCE THAN THE CONTRACTOR’S OPERATION CAN COVER IN FOUR HOURS. IN NO CASE SHALL IT EXCEED THE MAXIMUM LENGTH SHOWN ON EACH DETAIL.

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- Flagging Station

FORMULAS FOR L (TAPER LENGTH)

For 40 MPH OR LESS,

\[ L = \frac{606}{V} \]

For 45 MPH OR GREATER,

\[ L = \frac{606}{V} \]

Where \( V \) = speed of travel

**S** = posted speed limit

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

AS BUILT

K. MATTSON

K. KLEMATSON

K. SMITH

PROJECT NO. 71061

DATE: 1999

SOUTH EAST REGION DESIGN & CONSTRUCTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

DOUGLAS HIGHWAY
Pavement Rehabilitation

STP-00814(1) - 71061

TRAFFIC CONTROL PLAN
**ESTIMATE OF STRIPING QUANTITIES**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot; WHITE SHOULDER/PARKING</td>
<td>LF</td>
<td>27,214</td>
</tr>
<tr>
<td>4&quot; YELLOW CENTERLINE</td>
<td>LF</td>
<td>18,587</td>
</tr>
<tr>
<td>6&quot; WHITE LANE DIVIDER</td>
<td>LF</td>
<td>440</td>
</tr>
<tr>
<td>18&quot; YELLOW CHEVRON</td>
<td>LF</td>
<td>198</td>
</tr>
<tr>
<td>18&quot; WHITE CHEVRON</td>
<td>LF</td>
<td>36</td>
</tr>
<tr>
<td>2&quot; WHITE CROSSWALK/STOPBAR</td>
<td>LF</td>
<td>360</td>
</tr>
<tr>
<td>PAINT WHITE &quot;Bike Lane&quot; M/ ARROW &amp; DIAMOND EACH</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>PAINT YELLOW CURB</td>
<td>LF</td>
<td>180</td>
</tr>
</tbody>
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Note: Markings for parking shall be type "B" as shown on standard drawing T-20.00.

**STRIPING AND RPM NOTES**

1. Unless noted otherwise, all markings shall be preformed thermoplastic.
2. Striped lane widths shall be 12".
3. Existing no-passing grooves at ends of no passing zones shall be referenced before construction begins by the contractor for temporary and permanent marking placement.
4. Lateral placement of recessed pavement markers shall be between double yellow stripes on centerline.
5. Locations on markers in situations with unusual geometries will be determined by the project engineer.
6. RPM quantities are approximate only and may vary.

**TYPICAL RECESSED PAVEMENT MARKER**

**LAYOUT DETAIL**

- Cut 1/4" deep recess at both ends of all no-passing zone markings. The end away from the "B" leg shall point towards the solid marking.
- 2.75" x 2.75" x 6" TYP
- 4.5" x 4.5" x 6" TYP
- 6" x 6" x 6" TYP

**ELEVATION**

- 72"
- 12" MIN
- 50" MIN
- 1/16" TO 1/"'

**PLAN**

- Traffic Direction
- Two-Way Yellow Markers

**TYPICAL RECESSED MARKER LOCATION**

- Cut 1/4" deep recess at both ends of all no-passing zone markings. The end away from the "B" leg shall point towards the solid marking.
- 2.75" x 2.75" x 6" TYP
- 4.5" x 4.5" x 6" TYP
- 6" x 6" x 6" TYP

**NOTE:** Do not scale from these plans—use dimensions.
DETAIL PAINTED BIKE LANE

(TALL MARKINGS ARE WHITE)

INSTALL TYPICAL TYPE "B" PARKING SPACE STRIPING

INSTALL PAINTED BIKE LANE MARKINGS AS PER DETAIL.

TYPICAL PAINT TAIL & TOP OF CURB TRAFFIC PAINT YELLOW, 15'-0" EACH SIDE OF FIRE HYDRANT

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS