State of Alaska
Department of Transportation and Public Facilities - Southeast Region

JNU-FFY09 AREAWIDE PAVING
PROJECT No. HPP-000S(696)~68837

MENDENHALL LOOP ROAD
GLACIER HWY/TWIN LAKES DRIVE
GLACIER HWY/LEMON ROAD
DOUGLAS HIGHWAY

PROJECT SUMMARY

<table>
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<tr>
<th>PAVING LOCATION</th>
<th>LENGTH OF RESURFACING</th>
<th>WIDTH</th>
<th>2008 ADT</th>
<th>2011 ADT</th>
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<td>310'0''</td>
<td>22''</td>
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<td>8470</td>
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<tr>
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<tr>
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<td>14890</td>
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<td>TOTAL LENGTH= 1467'2''</td>
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THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

- A-1
  - M-201-21
  - D-21-02
  - T-21-02
- C-01-12
  - D-30-10
  - T-21-02
- C-05-01
  - D-30-00
  - T-22-03
- D-22-01
  - D-30-10

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

CERTIFIED TRUE & CORRECT AS BUILT AT ACTUAL FIELD CONDITION:

CONSTRUCTION/PROJECT MANAGER

APPROVED:
REGIONAL PRE-CONSTRUCTION ENGINEER
VICTOR W. WINTER, P.E.

MENDENHALL LOOP ROAD
GLACIER HWY/TWIN LAKES DRIVE
DOUGLAS HIGHWAY

VICINITY MAP
TWIN LAKES DRIVE & LEMON DRIVE

VICINITY MAP
MENDENHALL LOOP ROAD

VICINITY MAP
DOUGLAS HIGHWAY

INDEX

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<tr>
<th>SHEET NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>A1</td>
<td>TITLE SHEET</td>
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<td>A2</td>
<td>ESTIMATES OF QUANTITIES</td>
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<td>A3-A6</td>
<td>SUMMARIES</td>
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<td>A7-A9</td>
<td>TYPICAL SECTIONS</td>
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<td>B1-B4</td>
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PUBLIC FACILITIES

LOW OF TRANSPORTATION, P.E.
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**BASIS OF ESTIMATE**

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GLACIER HWY/TWIN LAKES DRIVE
TYPICAL SECTION
STA 100+00 TO STA 131+30

GLACIER HWY/LEMON ROAD
TYPICAL SECTION
STA 24+00 TO STA 30+75 AND STA 39+00 TO STA 84+63

EXISTING GROUND

VARES

2" COLD PLANING LIMITS

VARES

2" COLD PLANING LIMITS

2" COLD PLANING LIMITS

EXISTING CRUSHED AGGREGATE BASE COURSE

EXISTING CRUSHED AGGREGATE BASE COURSE

EXISTING ASPHALT CONCRETE

STE-1 TACK COAT

RELATED DOCUMENTS

ARTICLE

PAGE 29

DATE

November 25, 2009

DRAWN BY:

D. MULLIN

CHECKED BY:

D. MULLIN

SCALE

1" = 1'-0"

10 20 30 40 50

10 20 30 40 50

ADDITIONAL SHEETS

29

TYPICAL SECTIONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
MENDENHALL LOOP ROAD
2" COLD PLANING
STA 106+94 TO STA 110+76
NTS

2" ASPHALT CONCRETE, ST-1, TYPE B
STE-1 TACK COAT

NOTE: EXISTING CONCRETE ISLAND COLD PLANE TURN LANE, SEE SHEET B-1

EXISTING GROUND

LINEAR GRADING

EXISTING ACP

2" OVERLAY LIMITS

EXISTING ACP

LINEAR GRADING

EXISTING GROUND

MENDENHALL LOOP ROAD
2" OVERLAY
(VALLEY BOULEVARD TO BACK LOOP ROAD)
STA 110+76 TO STA 136+25
NTS

2" OVERLAY LIMITS

2" ASPHALT CONCRETE, ST-1, TYPE B
STE-1 TACK COAT

PROJECT BALLOON DRAWINGS have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as construct.

PE 725/10
Date

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY:
C. HOWARD
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION

AREAWIDE PAVING PROJECT #68837
TYPICAL SECTIONS

HPP-005(S96)-68837 2009
BOP
STA 106+94 TO STA 110+76
BEGIN 2" COLD PLANING OF TRAVEL LANES AND TURN LANES

STA 110+76
BEGIN 2" OVERLAY

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
STA 127+52 TO STA 127+78
24' x 26'
SAWCUT
EXISTING PFIDOT TRAFFIC COUNTER TO REMAIN.

STA 130+49
ASPHALT CRACK REPAIR
SEE DETAIL SHEET F2

4" DOUBLE YELLOW
WHITE

---

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
EOP STA 138+25
END 2" OVERLAY

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
NOTE:
WORK MUST OCCUR IN ONE LANE ONLY WITH PAVING TO FOLLOW GRINDING OPERATIONS WITH WEATHER PERMITTING.
BOP STA 2+90 TO STA 30+75
BEGIN 2" COLD PLANING OF
EXISTING ASPHALT & REPLACE
WITH 2" OF NEW ASPHALT.

SAWCUT ALONG SHOULDER
2" COLD PLANE
REPAIR AREA AND PAVE
SAWCUT ALONG
EXISTING AC SEAM

INTERSECTION APPROACH ARROWS AND "ONLY" MARKINGS
TO BE WHITE PAINT. SEE STD DWGS T-21.02 AND T-22.03

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the Project as constructed.

STA ± 30+75
END 2" COLD PLANING (SAW CUT AT EXISTING AC SEAM)
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE: J
Date: 

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

LEMON ROAD
PLAN VIEW

Project Designation
HPP-0008(696)

STATE YEAR
ALASKA
2009

SHEET NUMBER
TOTAL SHEETS

D5
29
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

- PE

Date

Do not scale from these drawings. Use dimensions path, Q:

ALASKA 2009

LEMON ROAD

PLAN VIEW

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

Date: [Date]

[Signature]

PE

LEMON ROAD PLAN VIEW

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
BOP STA 14+67
BEGIN AT
BRIDGE ABUTMENT

DOUGLAS HIGHWAY

MATCH EXISTING
NEW ASPHALT SEAM
2" WHITE

MATCH EXISTING
NEW ASPHALT SEAM

EOP STA 18+97

ASPHALT CRACK REPAIR
SEE DETAIL SHEET F2

SEE DETAIL SHEET F2
BEFORE DRIVING IN THIS AREA.
WEET WITH PROJECT ENGINEER.

PROJECT
As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge
as constructed.

DATE

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MANHOLE ADJUSTMENT NOTES:

1. Adjusting rings shall be replaced in accordance to each manhole investigation conducted by the project engineer.
2. Manhole casting shall be adjusted to conform with slope and grade of proposed pavement.
3. Adjusting rings shall be properly sized for the existing cone or flat top opening, and installed per manufacturer's recommendations.
4. Installation of frame, cover, and adjusting rings, onto the existing structure shall be water tight.
5. For manhole reconstruct, see cvj/ std. dwg. 203.

MONUMENT CASE AND VALVE BOX ADJUSTMENT DETAIL

NEW ASPHALT PAVEMENT (TYP.)

APPROX. DEPTH OF EXISTING AC.

CONCRETE COLLAR

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GOVERNMENT OF ALASKA
DEPARTMENT OF TRANSPORTATION
DESIGN & ENGINEERING SERVICES DIVISION
SOUTHEAST REGION
INLET PROTECTION DETAIL

INLET PROTECTION INSTALLATION AND MAINTENANCE

1. INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT AND PLACE THE GRATE ON TOP. 

2. INSTALLATION: REMOVE LOWER STRAPS. HOLDING OF UNIT IN SEDIMENT INSTALL INLET PROTECTION UNIT OUT OF MOVE SATURATION. 

3. INSTALLATION: REMOVE THE EROSION ENVIRONMENTAL COMMITMENTS. CONTROLS BEGINNING SEDIMENT TRAPS ACCORDING TO SECTION AS SPECIFIED INLET PROTECTION INSTALLATION INLET PROTECTION DETAIL. 

4. INSTALLATION: REMOVE EROSION ENVIRONMENTAL COMMITMENTS. CONTROLS BEGINNING SEDIMENT TRAPS ACCORDING TO SECTION AS SPECIFIED INLET PROTECTION INSTALLATION INLET PROTECTION DETAIL. 

5. INSTALLATION: REMOVE EROSION ENVIRONMENTAL COMMITMENTS. CONTROLS BEGINNING SEDIMENT TRAPS ACCORDING TO SECTION AS SPECIFIED INLET PROTECTION INSTALLATION INLET PROTECTION DETAIL. 

6. INSTALLATION: REMOVE OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION. 

3. INSTALL INLET PROTECTION AT LOCATIONS WITH EARTH DISTURBING ACTIVITIES AND COLD PLANNING.

EROSION & SEDIMENT CONTROL NOTES:

1. NOTES TO APPENDIX A OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS. 

2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 404 OF THE SPDES. 

3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES AND COLD PLANNING OR AS SPECIFIED ELSEWHERE. 

4. MAINTAIN DEVICES. MONITOR DAILY. REMOVE SEDIMENT FROM SEDIMENT TRAPS WHEN 1/4" OF SEDIMENT HAS ACCUMULATED.

TYPICAL WATTLE INSTALLATION DETAIL

NOTES:

1. STRAW WATTLES SHALL BE MANUFACTURED FROM RICE STRAW AND WRAPPED IN TUBULAR PLASTIC NETTING. 

2. THE LOCATION AND LENGTH OF WATTLES IS DEPENDENT ON THE CONDITION OF THE SITE. 

3. TIGHTLY ABOUT ADJACENT WATTLES TO PREVENT SEDIMENT BYPASS. 

4. INSTALLATION: REMOVE OIL ABSORBENTS. PLACE ABSORBENT PILLOW IN UNIT AND PLACE THE GRATE ON TOP. 

PAVING FABRIC/Crack REPAIR

NOTES:

1. APPLY APPROVED TACK COAT OVER MEMBRANE PRIOR TO PAVING. 

2. CRACK REPAIR PAID FOR UNDER ITEM #521 PAVING FABRIC.
1. **TRAFFIC CONTROL NOTES**

   1. **MINIMUM OF ONE LANE SHALL REMAIN OPEN AT ALL TIMES IN WORK AREAS.**
   2. **TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".**
   3. **CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.**
   4. **CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.**
   5. **DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 6 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS NOTICE OF THE CLOSURE.**
   6. **IT IS THE INTENT OF THE TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. IT IS USED FOR CONFOURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL, WHERE APPROPRIATE, THEY SHALL INCORPORATE APPROPRIATE DETAILS FROM THESE SHEETS.**
   7. **ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION.**

2. **EXAMPLE: TCP: 3, MUTCD Ta-15.**

3. **THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL PRINT MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.**

4. **GLACIER HARDWARE/LEKES OR WORK MUST OCCUR IN ONE LANE ONLY WITH PAVING TO FOLLOW ORGANIZING OPERATIONS WITH WEATHER PERMITTING.**

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**LEGEND**

- **SIGN**
- **CON*E**
- **DRUM**
- **TYPE II BARRICADE**
- **FLAGGING STATION**

**FORMULAS FOR L (TAPER LENGTH)**

- **45 MPH OR LESS**

\[
L = \frac{W}{6}
\]

- **45 MPH OR GREATER**

\[
L = W + 5
\]

**WHERE W = WIDTH OF OFFSET**

**S = POSTED SPEED LIMIT**

**DRUM OR CONE SPACING = 45 (IN FEET)**

**MIN. BUFFER**

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**PERMANENT CONSTRUCTION SIGNING**

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