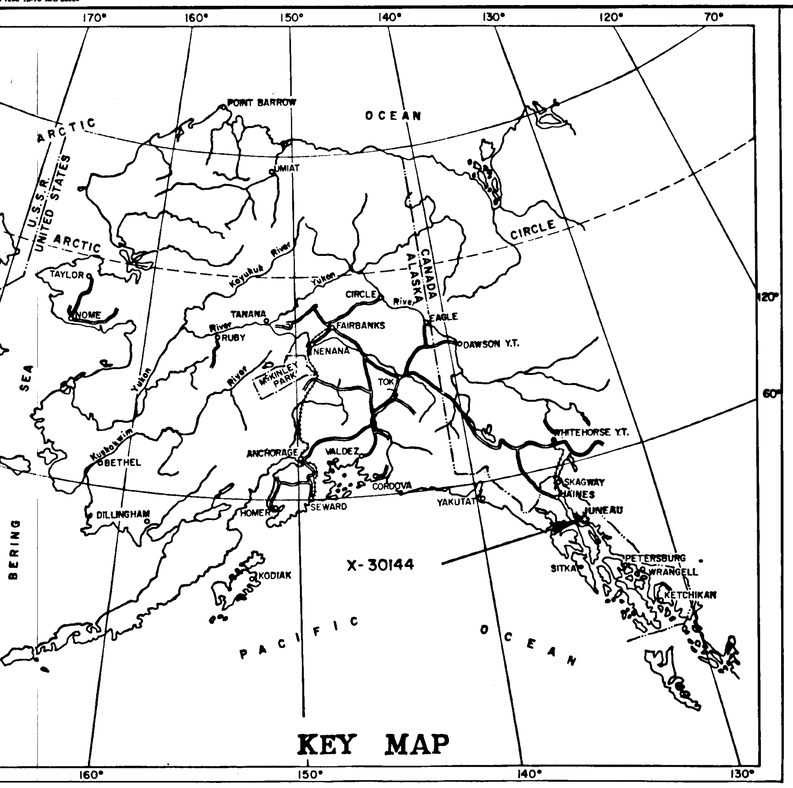
| STATE | PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| ALASKA | X-30144 | 1 | 2 |

# STATE OF ALASKA
# DEPARTMENT OF TRANSPORTATION
# &
# PUBLIC FACILITIES

# PLAN AND PROFILE
# PROPOSED HIGHWAY PROJECT
# X-30144
# MENDENHALL PENINSULA ROAD
## 1.13 MILES
## GRADING & DRAINAGE



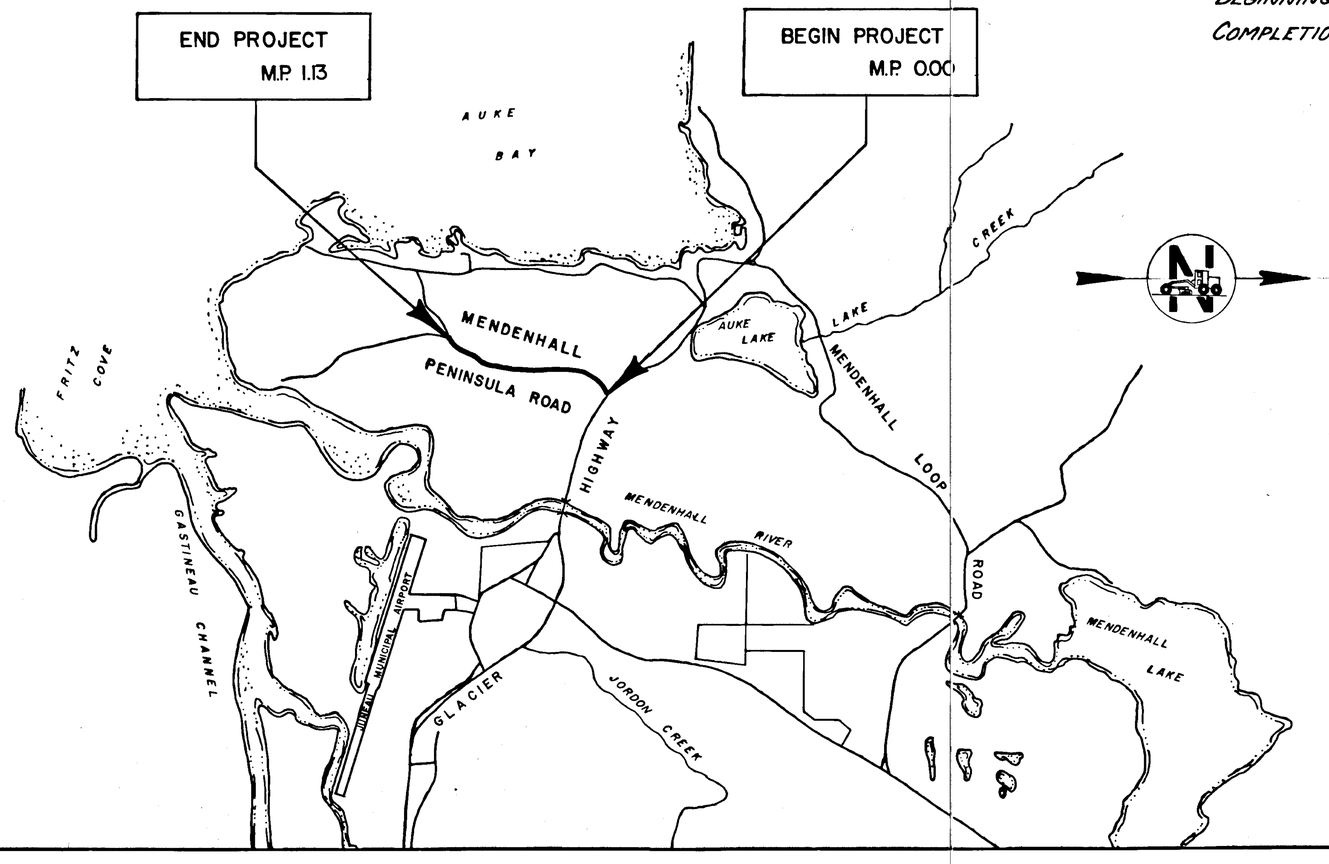
KEY MAP

## INDEX OF SHEETS

| Sheet No. | DESCRIPTION |
|---|---|
| 1 | TITLE SHEET |
| 2 | TYPICAL SECTIONS & ESTIMATE OF QUANTITIES |
| | |

The following Standard Drawings apply to this project:
A-1, C-00.04, C-10.03, C-11.03, D-01.00, D-04.00, D-05.00, S-00.11, S-05.00, S-30.12, I-40.21, I-80.0

*AS-BUILT PLANS*
*CONTRACTOR: BERG CONST. CO. INC.*
*PROJECT ENGINEER: JOHN R. EDWARDS*
*BEGINNING DATE: OCT. 15, 1980*
*COMPLETION DATE: DEC. 3, 1980*




PROJECT SUMMARY

| | |
|---|---|
| Width of surfacing | 22' |
| Length of project | 1.13 miles |
| DESIGN SPEED | 30 m.p.h. |
| 1978 ADT | 664 |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
Wallace K. Williams Date 6/19/80
S.E. REGION DESIGN AND CONSTRUCTION ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
Charles E. Parker Date 7-9-80
DIRECTOR-HIGHWAY DESIGN & CONSTRUCTION

| STATE | PROJECT DESIGNATION | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| ALASKA | X-30144 | 1980 | 2 | 2 |

## ESTIMATE OF QUANTITIES

| M NO. | ITEM | UNIT | QUANTITY |
|---|---|---|---|
| 0(1) | Mobilization | L.S. | All Required |
| 4(1) | Construction Engineering by the Contractor | L.S. | All Required |
| 5(1) | Traffic Maintenance | L.S. | All Required |
| 02(4) | Removal and Disposal of Culvert Pipe | Lin. Ft. | ~~60~~ 8 |
| 03(6A) | Selected Material | C.Y. | ~~300~~ 934 |
| 03(2) | Reconditioning | L.S. | All Required |
| 09(1) | Subbase Grading D | Ton | ~~5000~~ 6,370 |
| 3(22F) | 18" Pipe Conduit | Lin. Ft. | ~~176~~ 260 |
| 3(22G) | 24" Pipe Conduit | Lin. Ft. | ~~40~~ 68 |
| 5(1) | Standard Signs | Sq. Ft. | ~~22.5~~ 39 |

Basis of Estimate
Item 304(1) 1.96 Tons / cu. yd.

## DRIVEWAY APPROACH TABLE

| EAGE | DESCRIPTION |
|---|---|
| 12 | Residence Drive Approach — Lt. 34' - 18" C.M.P. |
| 20 | Residence Drive Approach ~ Lt. 34' - 18" C.M.P. |
| 21 | Residence Drive Approach ~ Lt. 34' - 18" C.M.P. |
| 25 | Commercial Drive Approach ~ Lt. 40' - 18" C.M.P. |
| 50 | Residence Drive Approach ~ Rt. 34' - 18" C.M.P. |

## TABLE OF WORK

| MILEAGE | DESCRIPTION |
|---|---|
| * 0.00 | Beginning of Project |
| 0.04 | Extend 24" Steel CMP 2' Right |
| 0.20 | Extend 24" Steel CMP 4' Each End |
| 0.35 | Begin Ditch Excavation in Rock |
| 0.40 | End Ditch Excavation in Rock |
| 0.72 | Begin Ditch Excavation in Rock |
| 0.79 | End Ditch Excavation in Rock |
| 0.80 | Begin Ditch Excavation in Rock |
| 0.85 | End Ditch Excavation in Rock |
| 0.87 | Remove and Install 24" CMP |
| 0.90 | Begin Ditch Excavation in Rock |
| 1.13 | End Ditch Excavation in Rock |
| 1.13 | End of Project |

Mileages are approximate only and are subject to minor revisions.

* Mileage begins 60' from ℄ of Exist. Glacier Highway.

Work begins 100' from ℄ of Exist. Glacier Highway.

## SIGNING SCHEDULE

| NO. | MILEAGE | CODE | LEGEND | SIZE | AREA Sq. Ft. | POST LENGTH | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 0.021 Rt. | W1-1RL | Curve Arrow | 30×30 | 6.25 | 12 | |
| 2 | 0.021 Rt. | W13-1 | 25 MPH | 18×18 | 2.25 | | Mount below 1. |
| 3 | 0.150 Lt. | W1-1RR | Curve Arrow | 30×30 | 6.25 | 12 | |
| 4 | 0.150 Lt. | W13-1 | 25 MPH | 18×18 | 2.25 | | Mount below 3. |
| 5 | 0.700 Lt. | R2-1 | Speed Limit 35 | 24×30 | 5.00 | 12 | (Opposite Exist Speed Limit 25) |

General Signing Notes

1. Sign locations and post lengths are approximate only and are subject to minor revisions.
2. All sign posts shall be square telescoping perforated galvanized steel posts; the 2" size shall be used above ground and the 2¼" size shall be used below ground for the sleeve.
3. All posts shall be installed with the sleeve type embedment in accordance with Standard Drawing 5-30.20, except that the 2¼" size shall be used for the entire embedment depth.
4. Post lengths are from the cut-off in the sleeve to the top of the post. See Standard Drawings 5-05.00 and 5-30.12.

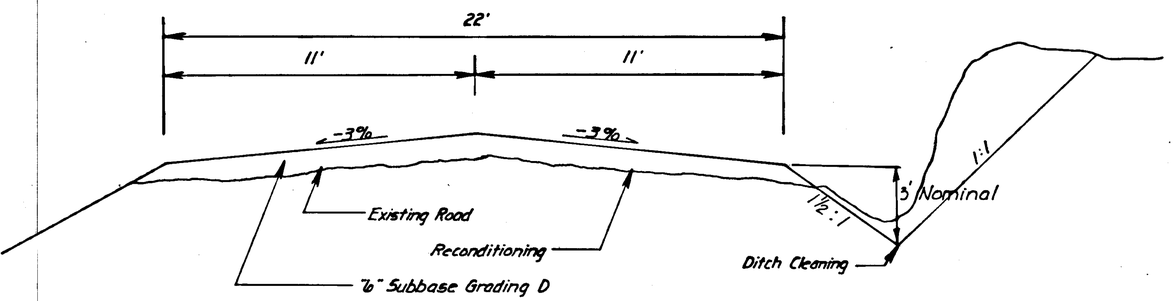
ADDITIONAL SIGNS

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 0.7 Rt. | W1-5R | Winding Rd. | 30×30 | 6.25 | |
| 7 | 0.7 Rt. | W13-1 | 25 M.P.H. | 18×18 | 2.25 | |
| 8 | 1.0 Lt. | W1-5L | Winding Rd | 30×30 | 6.25 | |
| 9 | 1.0 Lt. | W13-1 | 25 M.P.H. | 18×18 | 2.25 | |

## GENERAL NOTES

1. Ditch cleaning is incidental to reconditioning. Ditches over three feet deep will not require cleaning. Ditches will be a nominal minimum depth of 3' and will be graded to provide positive drainage between cross road culverts. In order to provide positive drainage along the roadway, a new ditch line must be established. This will require rock excavation in some locations. This excavation will not be measured directly but will be considered incidental to Reconditioning Item 303 (2).
2. Any clearing required to accomplish ditch cleaning or construction shall be incidental to other items of work and no direct payment will be made.
3. Removing and resetting existing mail boxes and newspaper tubes is incidental to other items of work.
4. Material removed during ditch reconditioning and construction will be wasted along the road as directed by the engineer.
5. Grade will be achieved by scarifying the existing roadbed to a depth of four inches and blading the surface to conform to crown and superelevation as well as developing a profile that will afford a good ride on the finished surface. Additional material required will be paid for as selected material.
6. Alignment shall be along the existing roadway. Minor shifts in alignment may be necessary to avoid conflicts with utilities
7. Superelevation may be rotated about the inside edge of the roadway in order to match existing approaches but generally will be rotated to minimize the need for additional material.
8. Standard Drawing I-40.21 shall be adhered to except that a 10' radius for drive approaches shall be used. The approaches shall be surfaced for a minimum distance of 10' from the edge of Travel Way.

## NORMAL SECTION




ADDITIONAL ITEMS

| | | | |
|---|---|---|---|
| 203(2) | Rock Excavation | L.S. | All Req'd. |
| 606(1) | Beam Type Guardrail, Type 1 Post | L.F. | 937.5 |

## DITCH EXCAVATION IN ROCK SECTION