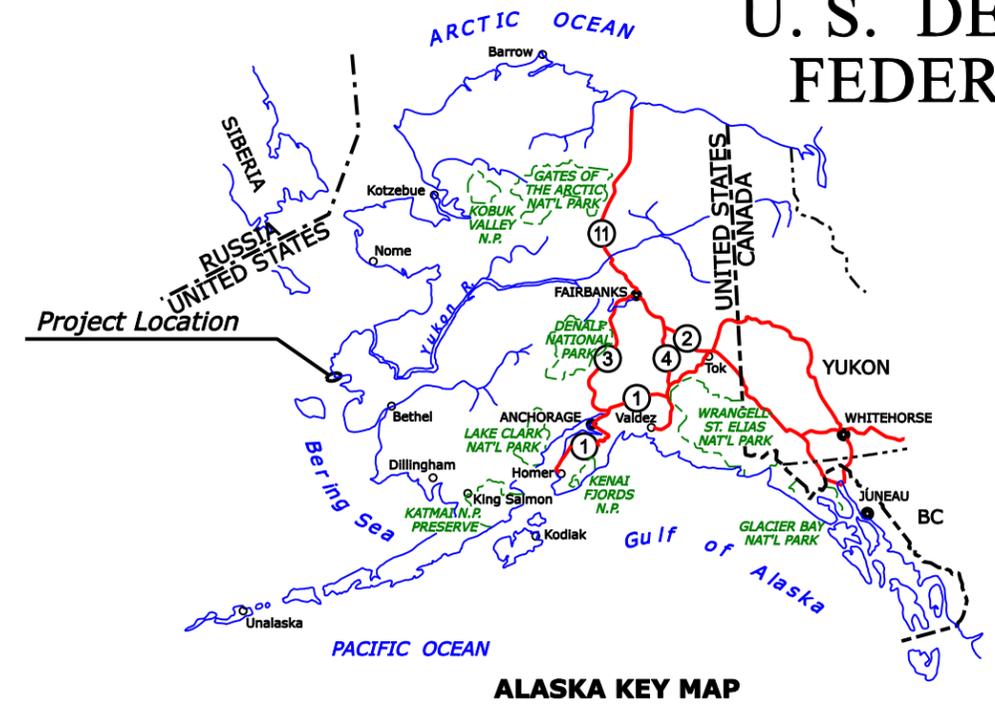


U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION



PLANS FOR PROPOSED PROJECT DENALI COMMISSION STUDY HOOPER BAY COMMUNITY STREETS VILLAGE OF HOOPER BAY ALASKA



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E.1	DRAINAGE DETAIL FOR VILLAGE ROAD



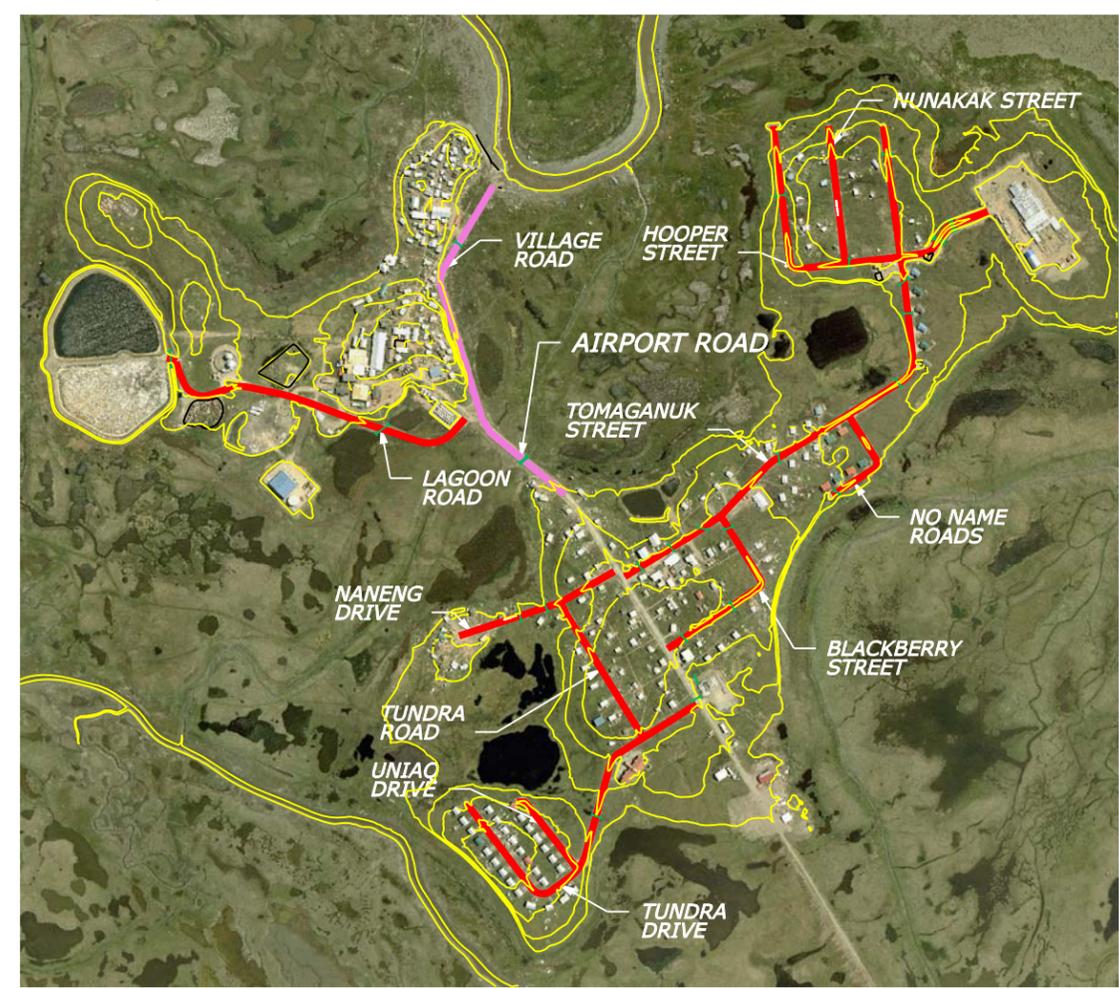
TYPE OF CONSTRUCTION:
Resurfacing, grade raise, drainage

DESIGN DESIGNATION:
Two-way residential streets

**FOR PLANNING AND SCOPING PURPOSES ONLY
NOT FOR CONSTRUCTION**



PLANS PREPARED BY
**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**
WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON



LEGEND	
	Roads/City Streets to be resurfaced
	Roads/City Streets to have grade raised and resurfaced

Checked by: \$DATE\$ \$PATH\$ \$DESIGNED BY:

PROJECT MANAGER
M. TRAFFALIS

STATE	PROJECT	SHEET NUMBER
AK	DEN 2008	A.2

DESIGN AND CONSTRUCTION

MATERIAL SOURCE:

The village has no local material source all material will have to be imported.

CONSTRUCTION RESOURCES:

The village of currently owns or leases some heavy equipment.

General labor from the village is available for employment.

TRANSPORTATION:

The village can be accessed by water with landing boats or small boats.

The village can be accessed by air.

Local ground transportation is primarily ATVs and four-wheel drive trucks.

RIGHT-OF-WAY

Utility corridors will need to be surveyed. Agreements will need to be made with the local utilities to relocate if there are any conflicts.

ENVIRONMENTAL COMPLIANCE

Projected NEPA Document Type:

Categorical Exclusion

Projected Permits and Compliance Actions:

Section 404 Nationwide Permit
 Section 106 Cultural Consultation
 ESA Section 7 Consultation
 Coastal Zone Consistency

Projected Time to Complete Environmental Compliance:

6-12 months

**PROJECT NOTES
AND FINDINGS**

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SUMMARY OF QUANTITIES

STATE	PROJECT	SHEET NUMBER
AK	DEN 2008	B.1

PLAN SHEET SECTION ----->>			Section C Typical Section	Section D Plan and Profile	Section E Drainage							ESTIMATED QUANTITY		ESTIMATED COST	
ITEM	DESCRIPTION	UNIT										PLAN	BID SCHEDULE	UNIT COST	AMOUNT
15101-0000	MOBILIZATION	LPSM										ALL	ALL	\$450,000.00	\$450,000.00
15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM										ALL	ALL	\$60,000.00	\$60,000.00
15802-0000	WATERING FOR DUST CONTROL	LPSM										ALL	ALL	\$50,000.00	\$50,000.00
20410-0000	SELECT BORROW	CUYD	13,967									13,967	13,967	\$135.00	\$1,885,545.00
30112-0000	AGGREGATE SURFACE COURSE	CUYD	6,969									6,969	6,969	\$155.00	\$1,080,195.00
60201-0899	24- INCH PIPE CULVERT	EACH			8							8	8	\$150.00	\$1,200.00

TOTAL BID ITEMS: \$3,526,940.00

30% CONTINGENCY: \$1,058,082.00

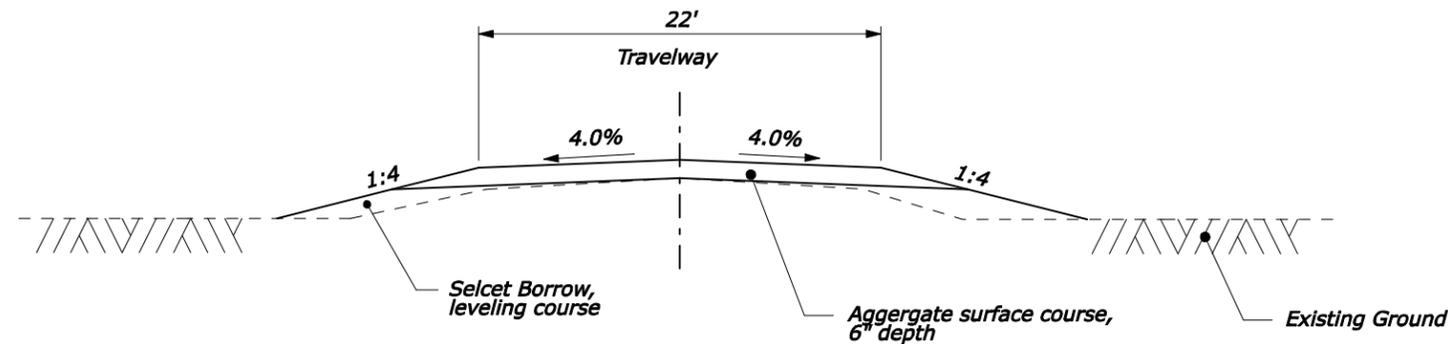
10% ENVIRONMENTAL MITIGATION: \$ 352,694.00

TOTAL CONSTRUCTION COST: \$4,937,716.00

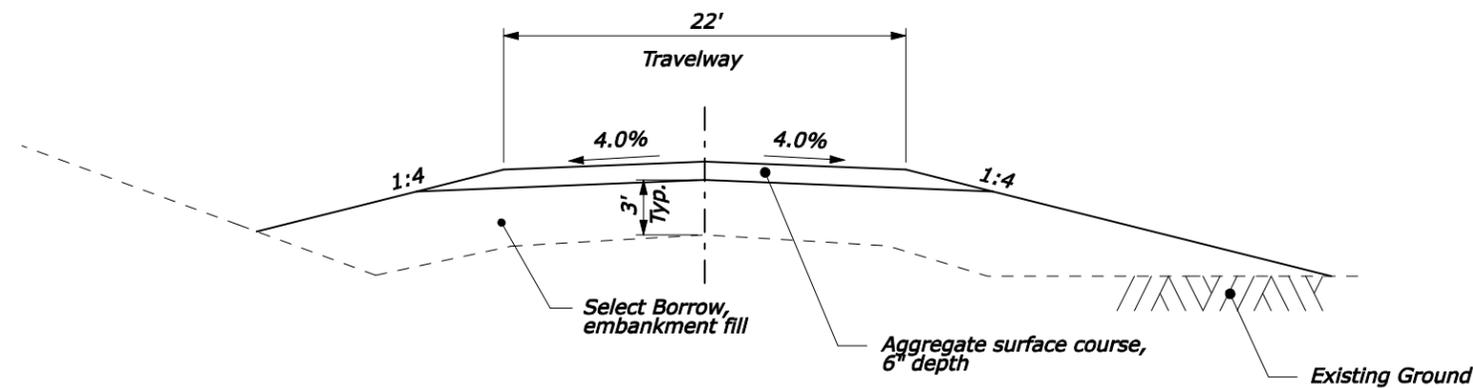
15% PE COST: \$740,657.40

10% CE COST: \$493,771.60

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 A. Designer
 Checked by:
 D. Checker



TYPICAL SECTION
*Tundra Road, Tundra Drive, Uniaq Drive
 Naneng Drive, Tomaganuk Street, Blackberry Street
 Hooper Street, Nunakak Street, Lagoon Road,
 No Name Roads*



TYPICAL SECTION
Village Road, Airport Road

ROADWAY QUANTITIES

ROAD NAME	ROAD LENGTH (ft)	ITEM 30112-0000 AGGREGATE SURFACE COURSE, 6" DEPTH (cuyd)	ITEM 20410-0000 SELECT BORROW (cuyd)
Tundra Road	1,550	680	29
Tundra Drive	1,728	758	32
Uniaq Drive	511	224	9
Naneng Drive	582	255	11
Tomaganuk Road	3,287	1,443	61
Blackberry Street	1,059	465	20
Hooper Street	1,942	852	36
Nunakak Street	755	331	14
Lagoon Road	1,852	813	34
No Name Roads	616	270	11
Village Road	1,390	610	9,524
Airport Road	611	268	4,186
TOTAL	15,883	6,969	13,967

NOTE:

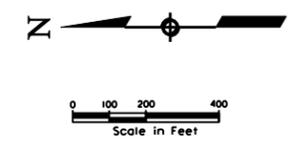
1. Provide a 10' transition to existing roadway grade and width at beginning and end of road.

TYPICAL SECTION

NO SCALE

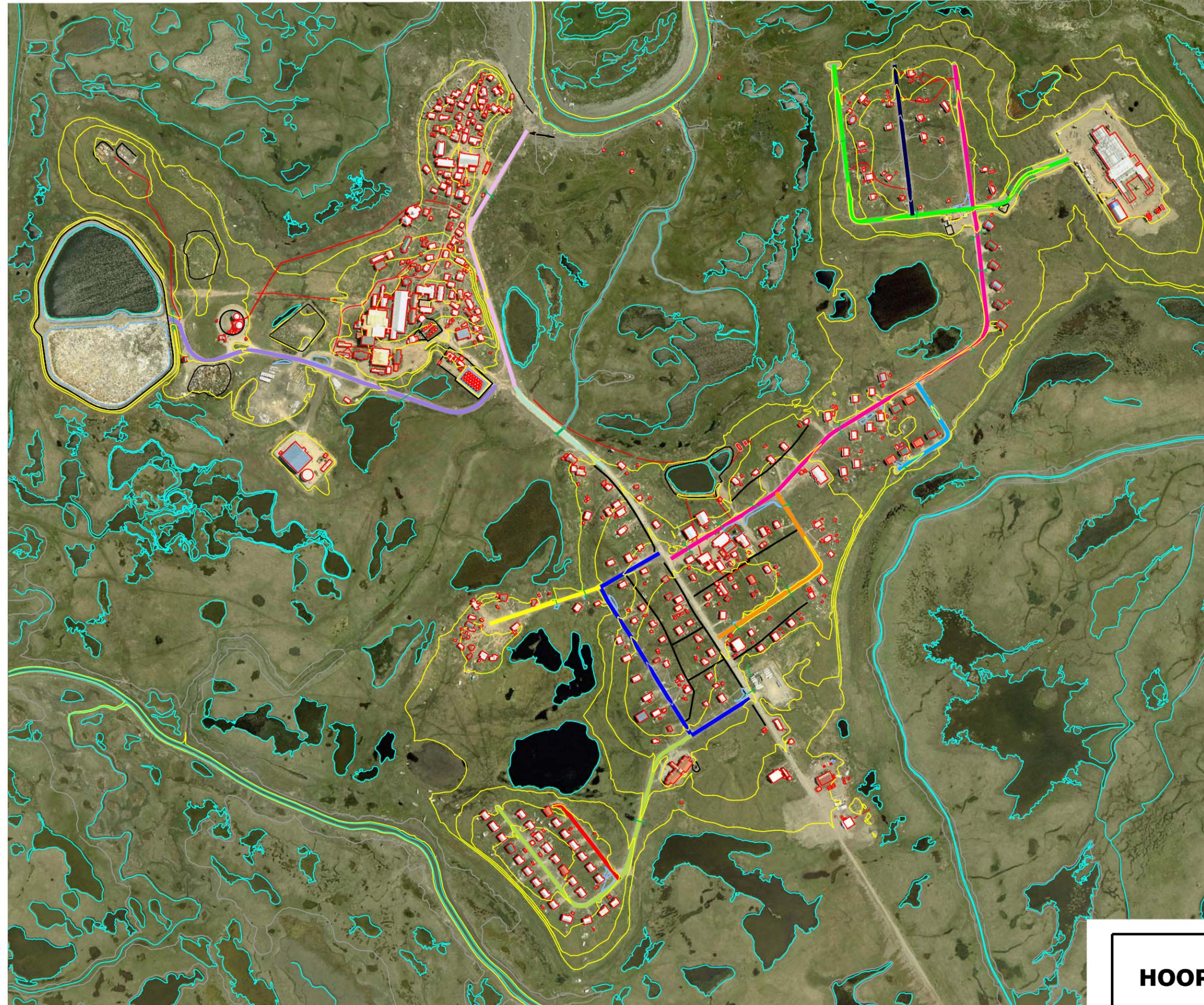
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LEGEND

<i>Tundra Road</i>	
<i>Tundra Drive</i>	
<i>Uniaq Drive</i>	
<i>Naneng Drive</i>	
<i>Tomaganuk Street</i>	
<i>Blackberry Street</i>	
<i>No Name Roads</i>	
<i>Hooper Street</i>	
<i>Nunakak Street</i>	
<i>Lagoon Road</i>	
<i>Village Road</i>	
<i>Airport Road</i>	

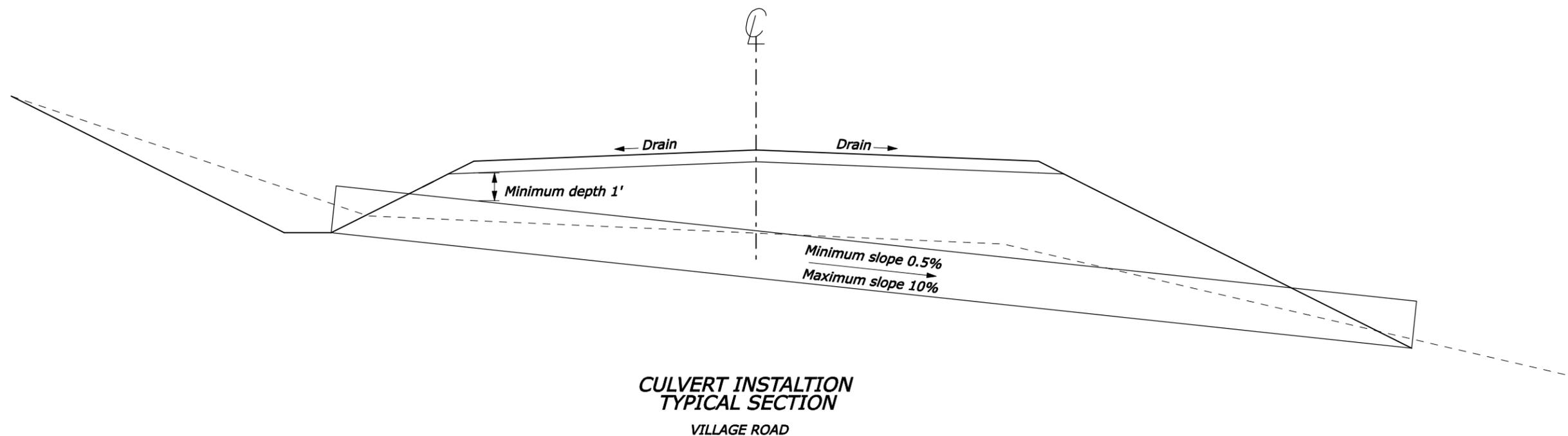


**HOOPER BAY CITY STREETS
VICINITY MAP**

Checked by:

Designed by:

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CULVERT QUANTITIES

ITEM NUMBER	DESCRIPTION	QUANTITY (each)	APPROX. CULVERT LENGTH (ft)
6021-0899	24- inch pipe culvert	8 ^{1/}	40'

NOTE:

1. All culverts are installed perpendicular to the roadway.
2. Excavate any unsuitable material present at the pipe foundation and replace it with select borrow.
3. Place 6" uncompacted select borrow pipe bedding layer.
4. Place 12" maximum layers of pipe backfill evenly on all sides of pipe. Compact backfill with hand tampers or mechanical compactors.

FOOTNOTE:

^{1/} Quantity based on installing culverts every 250' for the the length of Village Road.

**DRAINAGE DETAIL
FOR VILLAGE ROAD**

NO SCALE