



VICINITY MAP

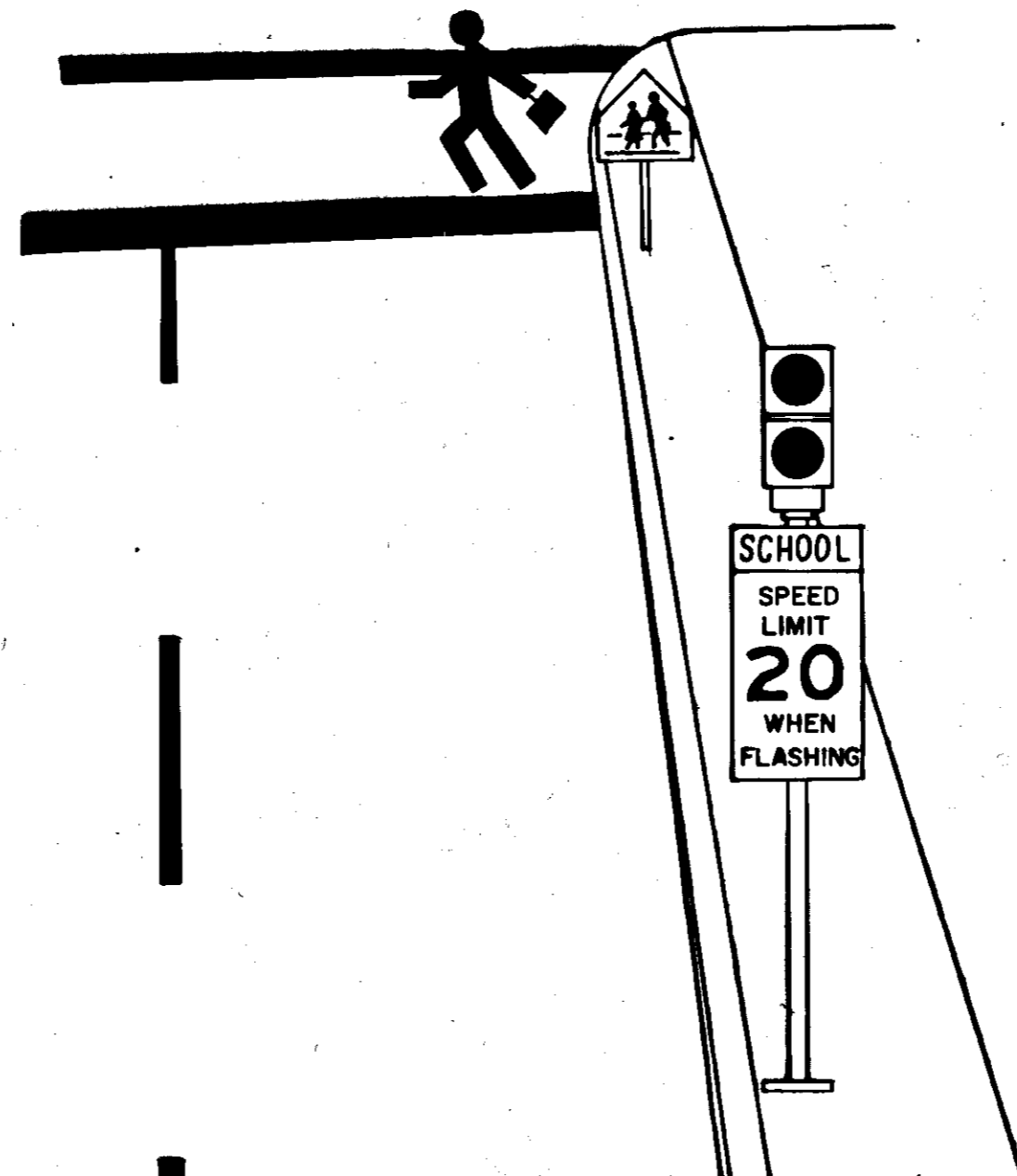
STATE OF ALASKA DEPARTMENT OF HIGHWAYS SOUTHEASTERN DISTRICT

S-9999(I) & F-9999(I) STANDARD SCHOOL CROSSING FLASHER DOUGLAS, HAINES, JUNEAU, PETERSBURG, SITKA, SKAGWAY, AND WRANGELL

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S & F-9999(I)	1	21

SHEET NO	DESCRIPTION
1	TITAL SHEET
2-3	DETAIL SHEET
4-7	LOCATION MAPS
8	DOUGLAS PLAN
9	HAINES PLAN
10	JUNEAU-AUKE BAY PLAN
11	JUNEAU - CORDOVA STREET PLAN
12	JUNEAU - LOOP ROAD PLAN GRAMMER SCHOOL
13	JUNEAU - LOOP ROAD PLAN JR. HIGH SCHOOL
14	PETERSBURG PLAN
15	SITKA - HALIBUT POINT ROAD PLAN
16	SITKA to JAPONSKI ISLAND
17	SITKA - SAWMILL CREEK ROAD PLAN
18	SKAGWAY PLAN
19	WRANGELL - BENNET STREET PLAN
20	WRANGELL - CHURCH STREET PLAN
21	WRANGELL - WRANGELL HIGHWAY PLAN

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: A-1, T-1, T-2, T-3, T-15, T-16 Sheets 1 & 2, T-17, T-18, T-19, T-70, T-71, Sheet 1, and T-72



"As Built"
 Contractor: Service Electric Co.
 Project Eng: Gary Kanter
 Date Began: May 1, 1973
 Date Ended: Aug. 24, 1973

1) bb bb-5

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED: *Wallace K. Williams* For 5/26/72
 SOUTHEASTERN DISTRICT ENGINEER DATE

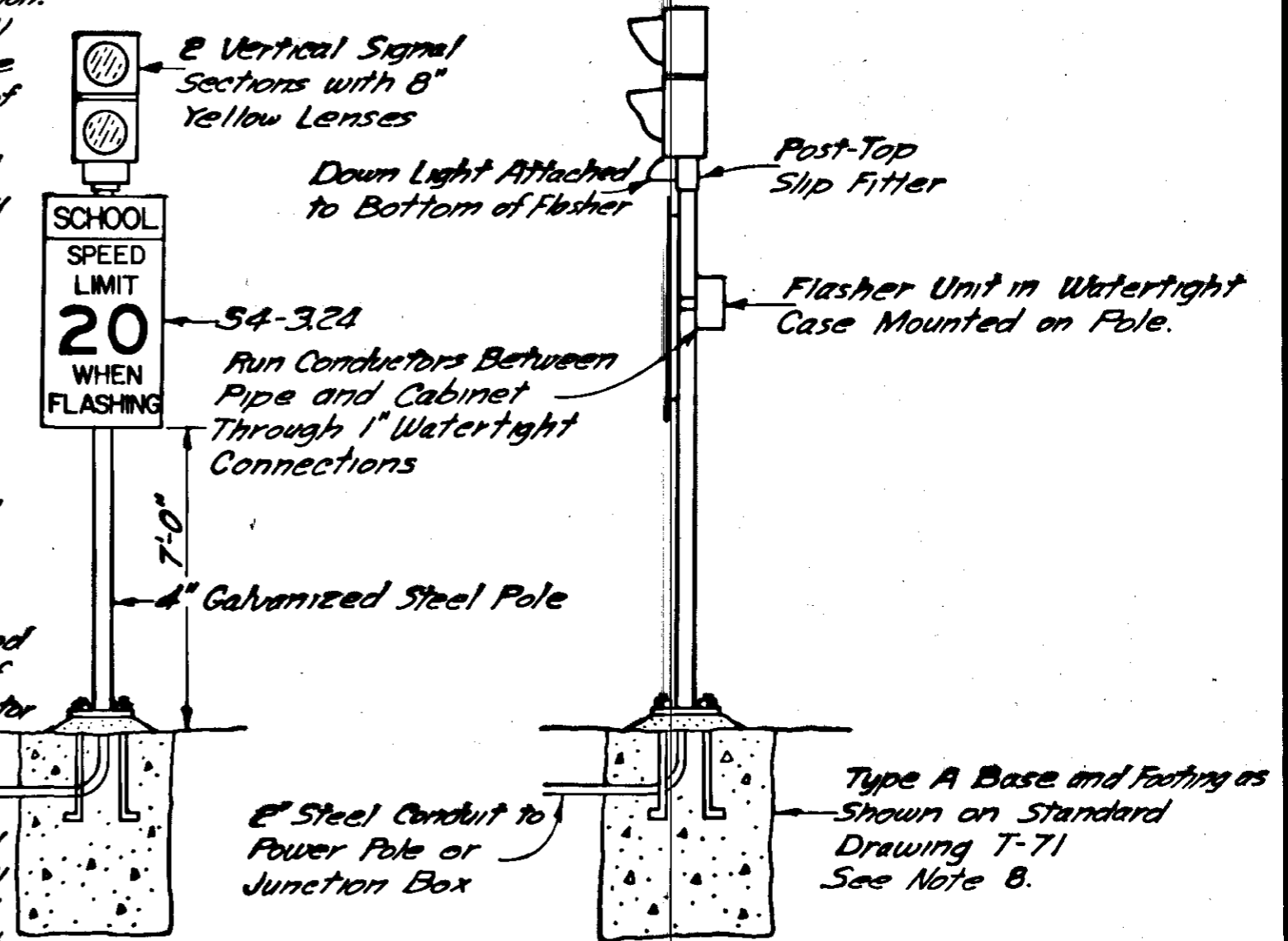
B. Campbell 5/26/72
 COMMISSIONER OF HIGHWAYS DATE

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S&F-9999(1)	2	21

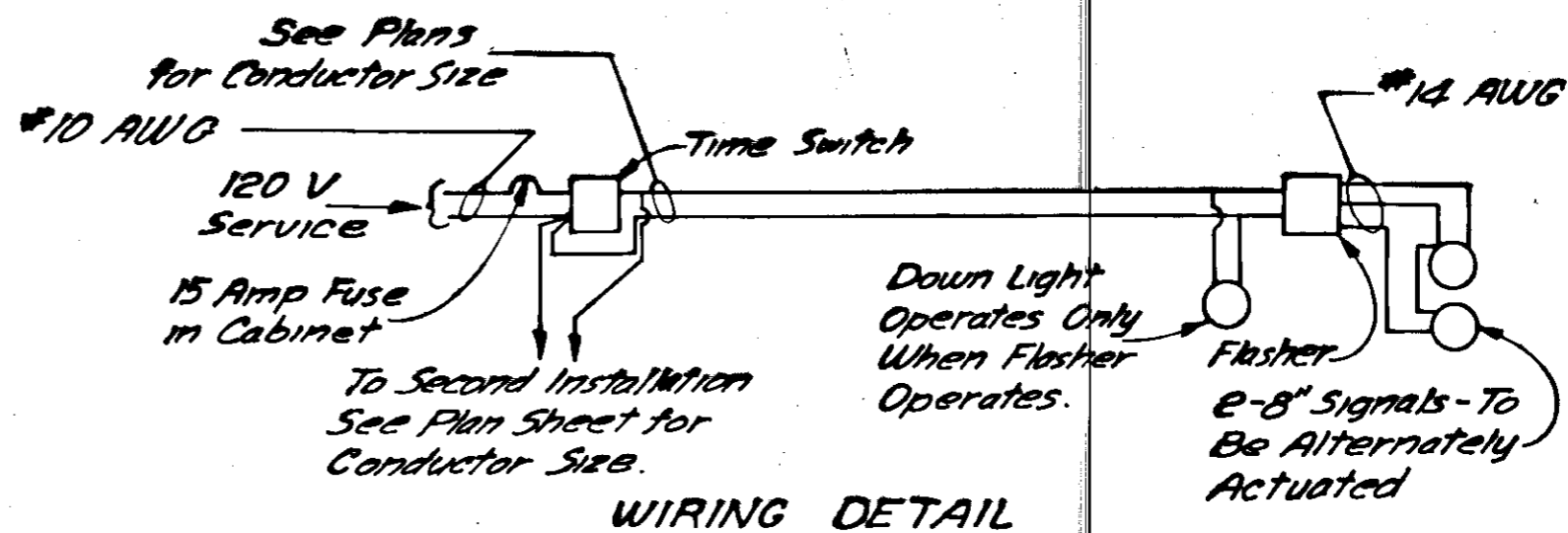
GENERAL NOTES

- All dimensions are approximate only and the exact locations of all signs will be staked by the project engineer.
- All devices and equipment removed by the contractor (Sign, Flashers) shall be stockpiled in the local state maintenance yard for return to the respective owner (city, state).
- Contractor is to contact power company in each town for proper installation of conductors on power poles and location of load centers and weather heads.
- Before installing flasher wires in conduit for the Haines installation only, remove existing illumination wires. One illumination wire may be left for use as a pull wire or a separate pull wire may be pulled in when removing the illumination wires. The illumination and flasher wires shall then be pulled into the conduit together.
- To remove and replace wires in the existing illumination conduits in Haines, it should not be necessary to remove the light poles. However, if the hand hole does not provide sufficient room to pull the wires, the light pole may be removed. In all cases, the poles shall be replaced and in operation each night.
- The extension of the Type II J-Boxes in Haines center cabinet such that may be concrete or brick. The wall of concrete the adjustable dials are option shall be 6" thick and the brick option shall be 8" thick. Concrete or mortar shall conform to the Standard Specifications. Back-fill around the J-Box and extension shall be compacted with a "pogo stick" type compactor.
- All underground cables shall be in 2" rigid metal conduit.
- Flasher posts in Wrangell on the Wrangell Highway (at the B.I.A. School) shall have breakaway bases. See Standard Drawing T-72.
- Wood poles to be furnished by the contractor shall be 30 feet, Class 5.
- The meter at all load centers shall face away from the road.
- The down light shall be weatherproof and equipped with two std. 60w signal lamps. It shall be attached

to the lower signal section.
 12. The time switches shall consist of a 24 hour time clock with a minimum of four on-off operations per day. The clock shall be equipped with a 7-day "skip a day" feature capable of omitting any day of the week from the timing operation. It shall be equipped with a wound spring carry over capable of running the clock for a minimum of 10 hours in the event of a power failure. The switches shall have a minimum "on" time of one hour and a maximum "on" time of 23 hours. The clock motor shall operate at 120 volts AC. The switch shall be of the SPST type with tungsten contacts rated 40 Amps. The unit shall be mounted in the load



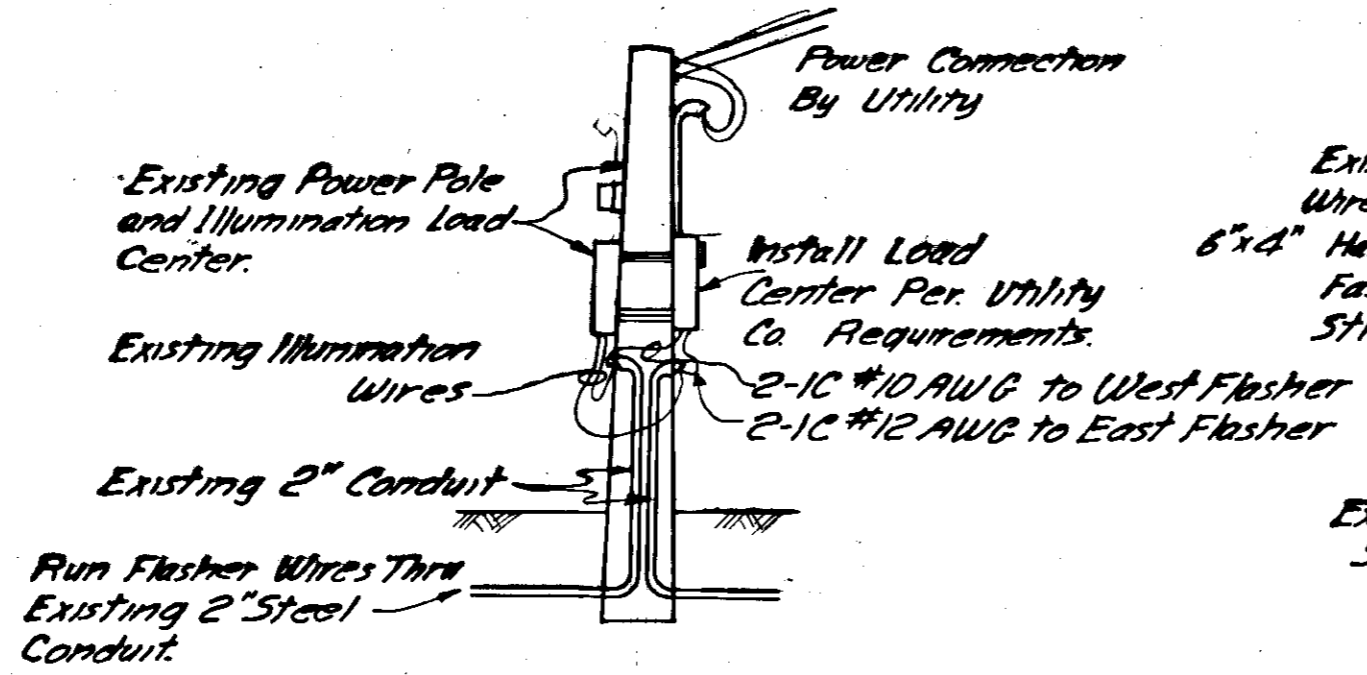
FLASHER DETAIL



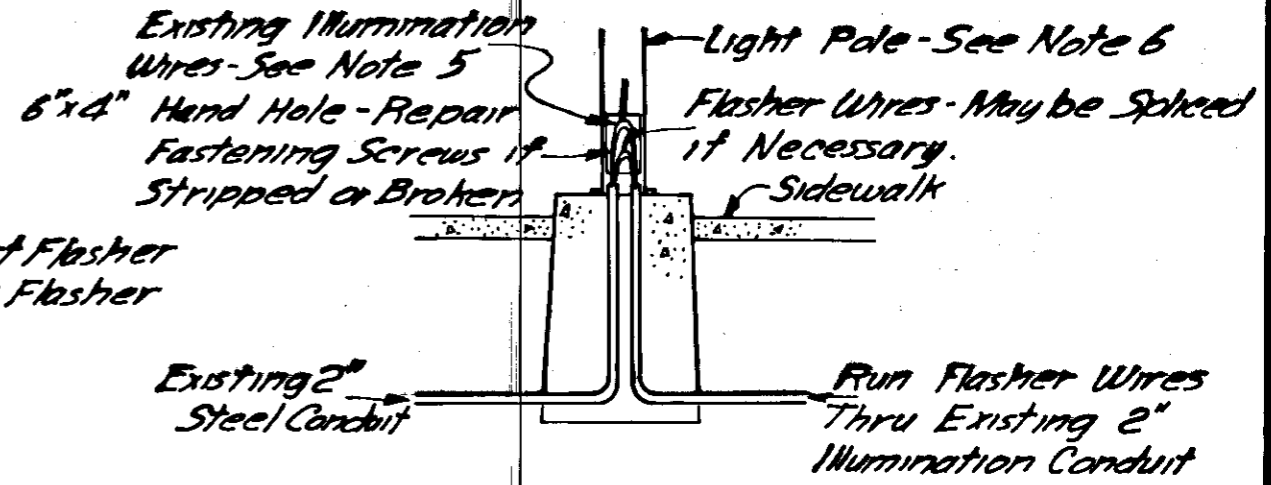
WIRING DETAIL

DETAILS

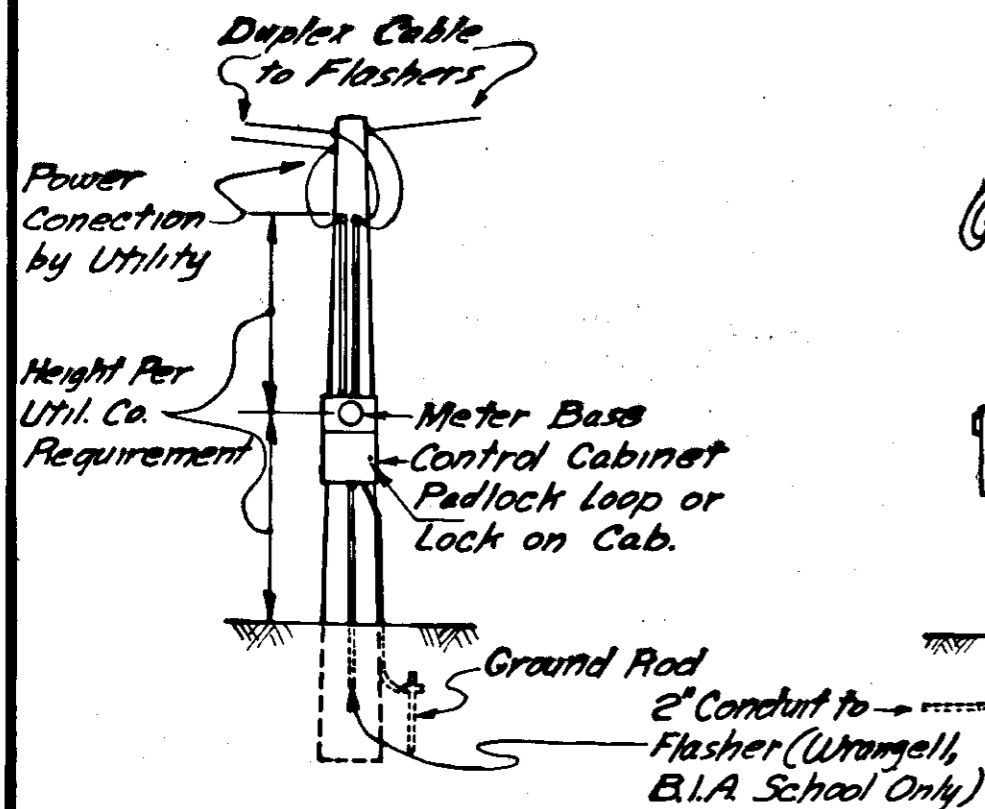
STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S & F-9999(1)	3	21



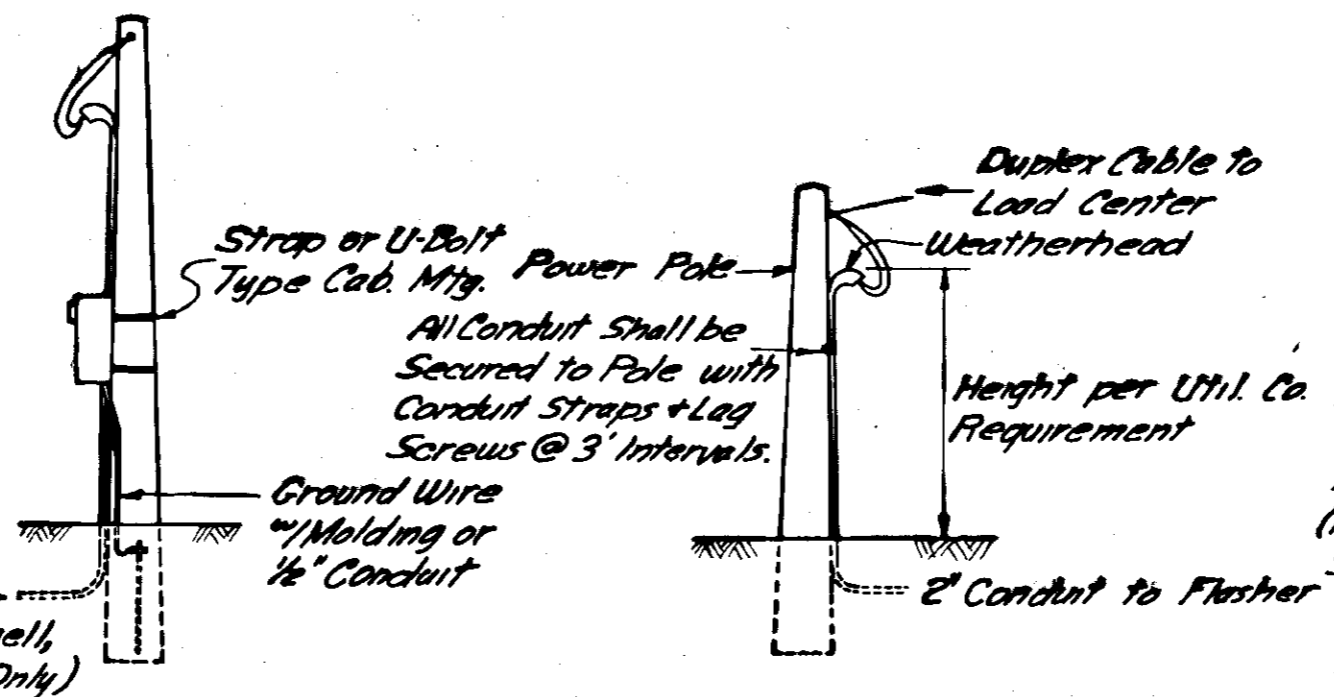
LOAD CENTER DETAIL - HAINES



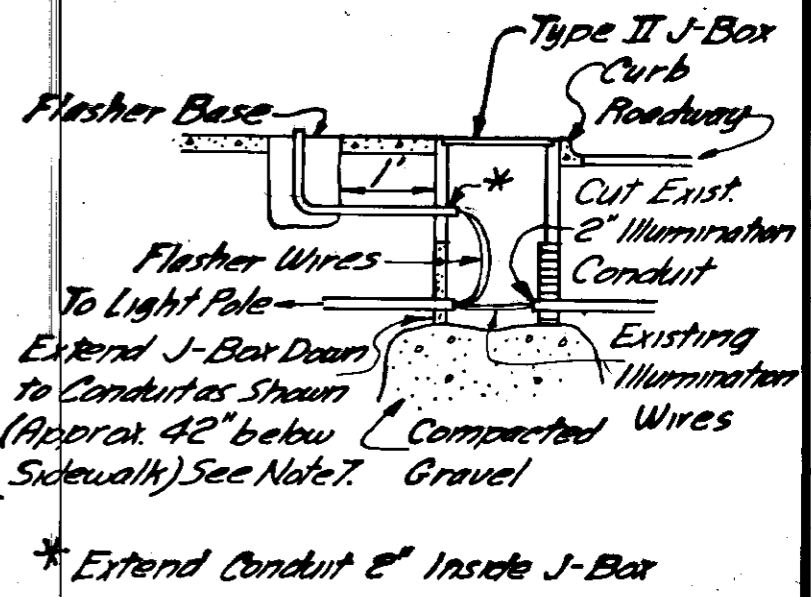
TYPICAL ILLUMINATION FOOTING - HAINES



TYPICAL LOAD CENTER



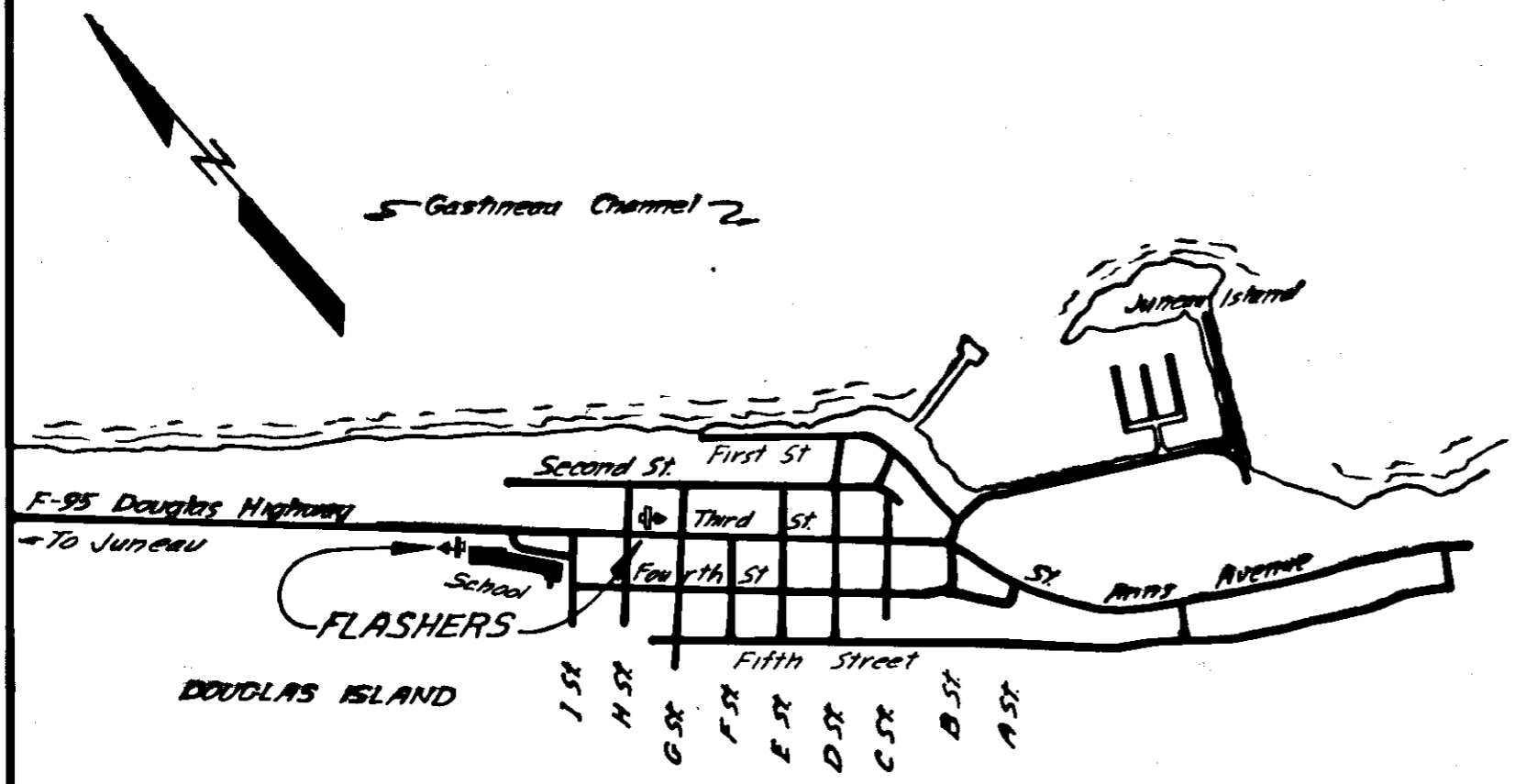
TYPICAL OVERHEAD TO UNDERGROUND CONNECTION



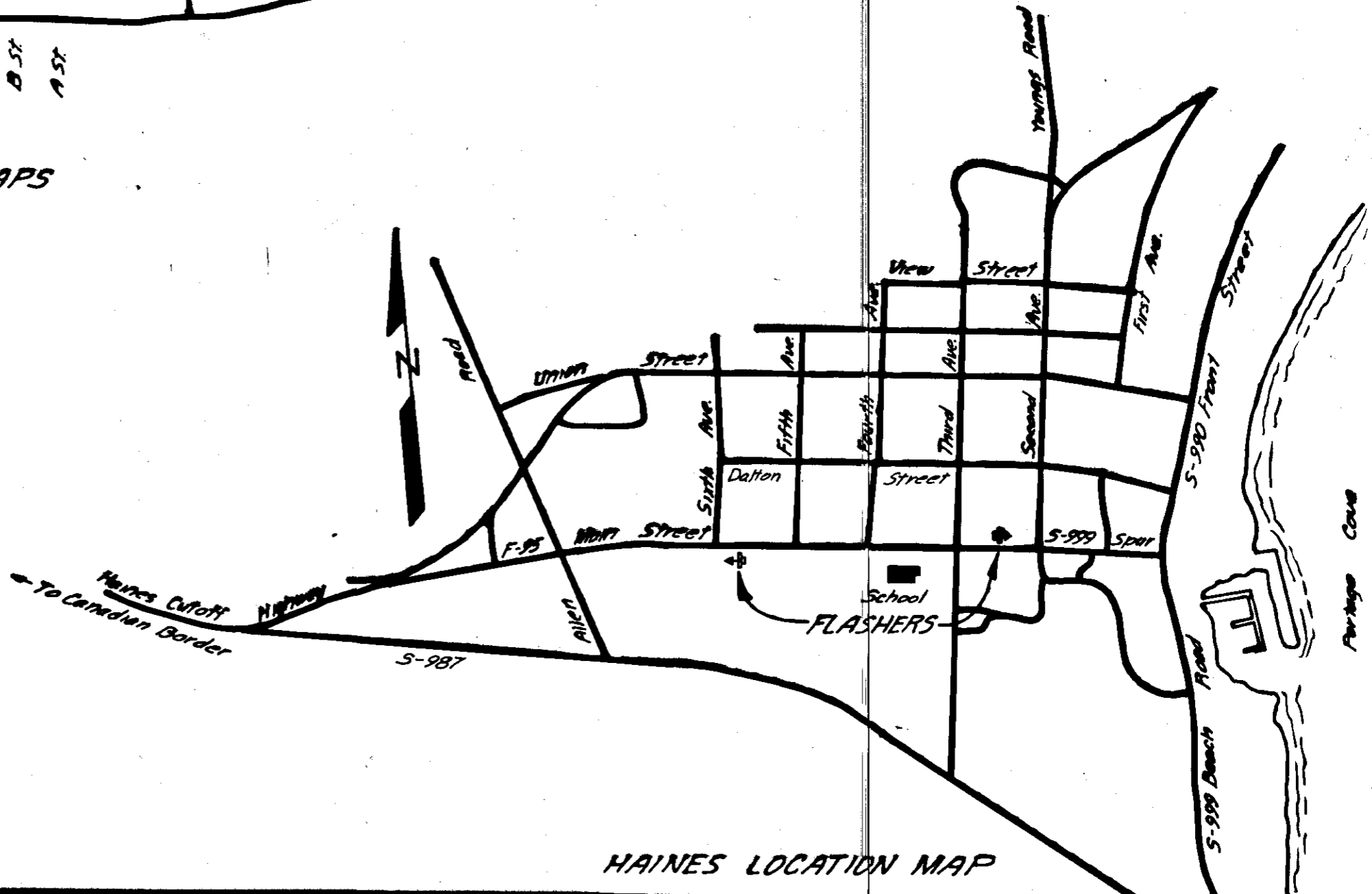
JUNCTION BOX INSTALLATION DETAIL - HAINES

LOCATION MAPS

STATE	PROJECT DESIGNATION	SHEET NO	TOTAL SHEETS
ALASKA	S&F-9999(1)	4	21



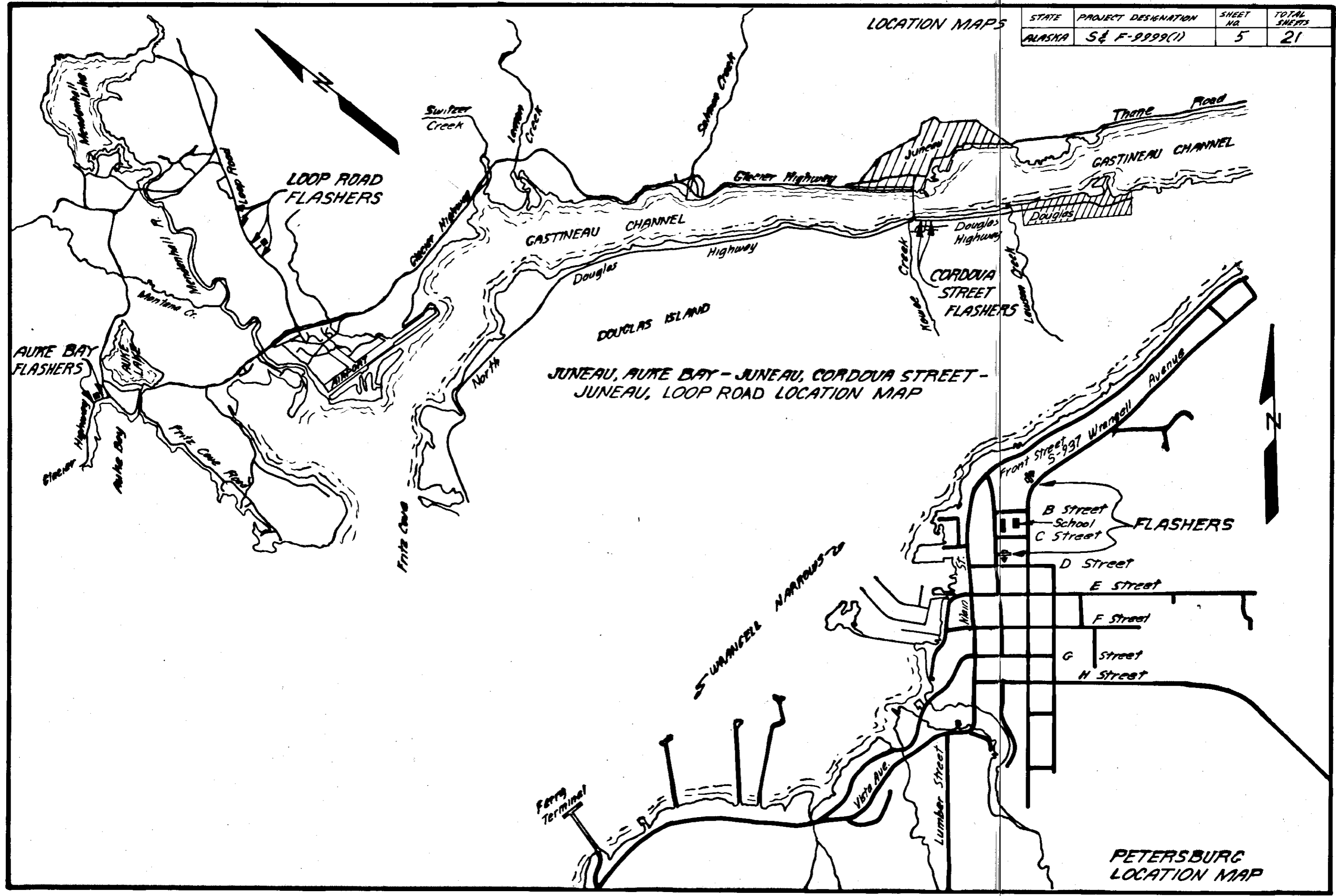
DOUGLAS LOCATION MAPS



HAINES LOCATION MAP

LOCATION MAPS

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S& F-9999(1)	5	21

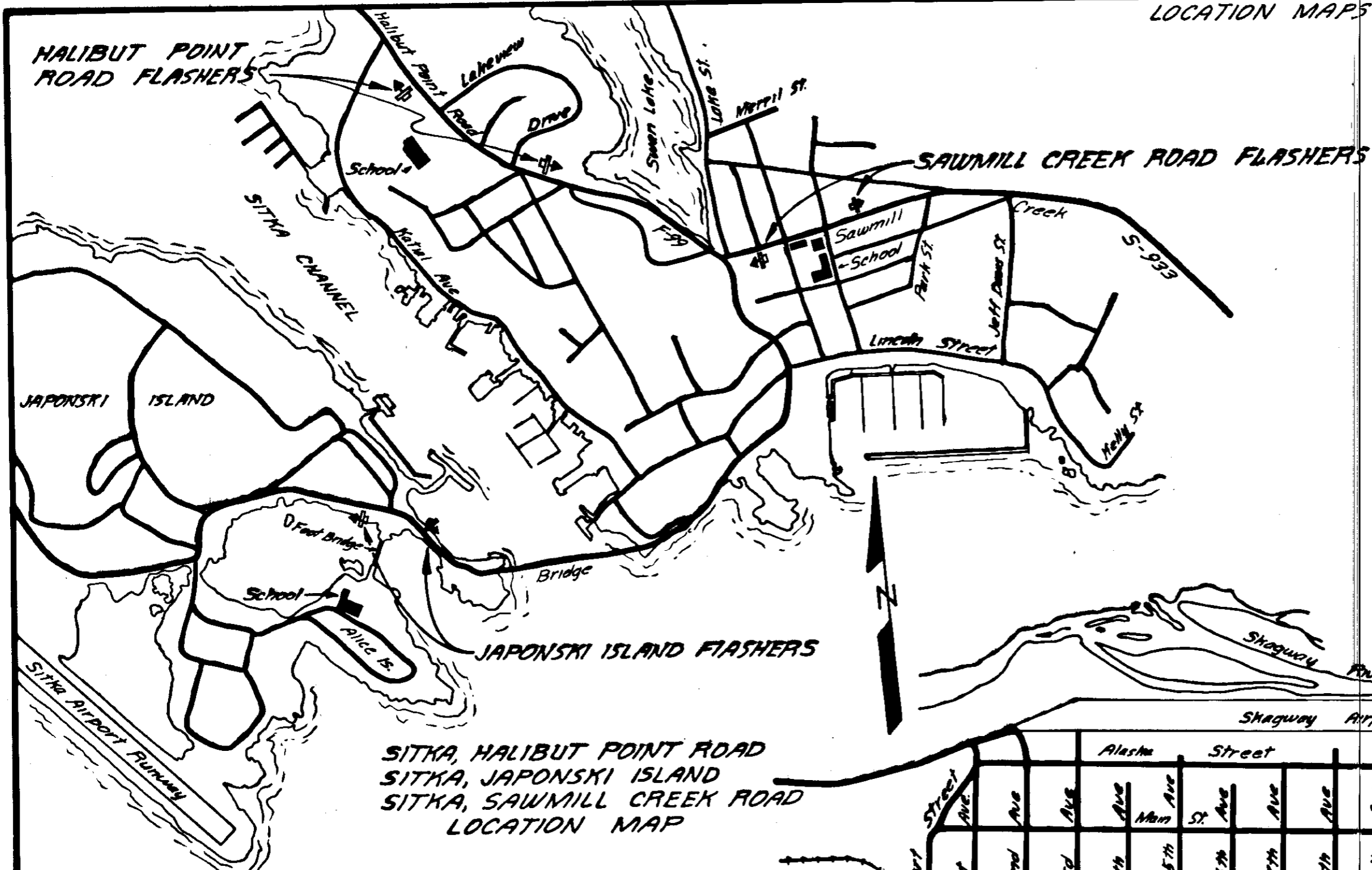


JUNEAU, AUKE BAY - JUNEAU, CORDOVA STREET -
JUNEAU, LOOP ROAD LOCATION MAP

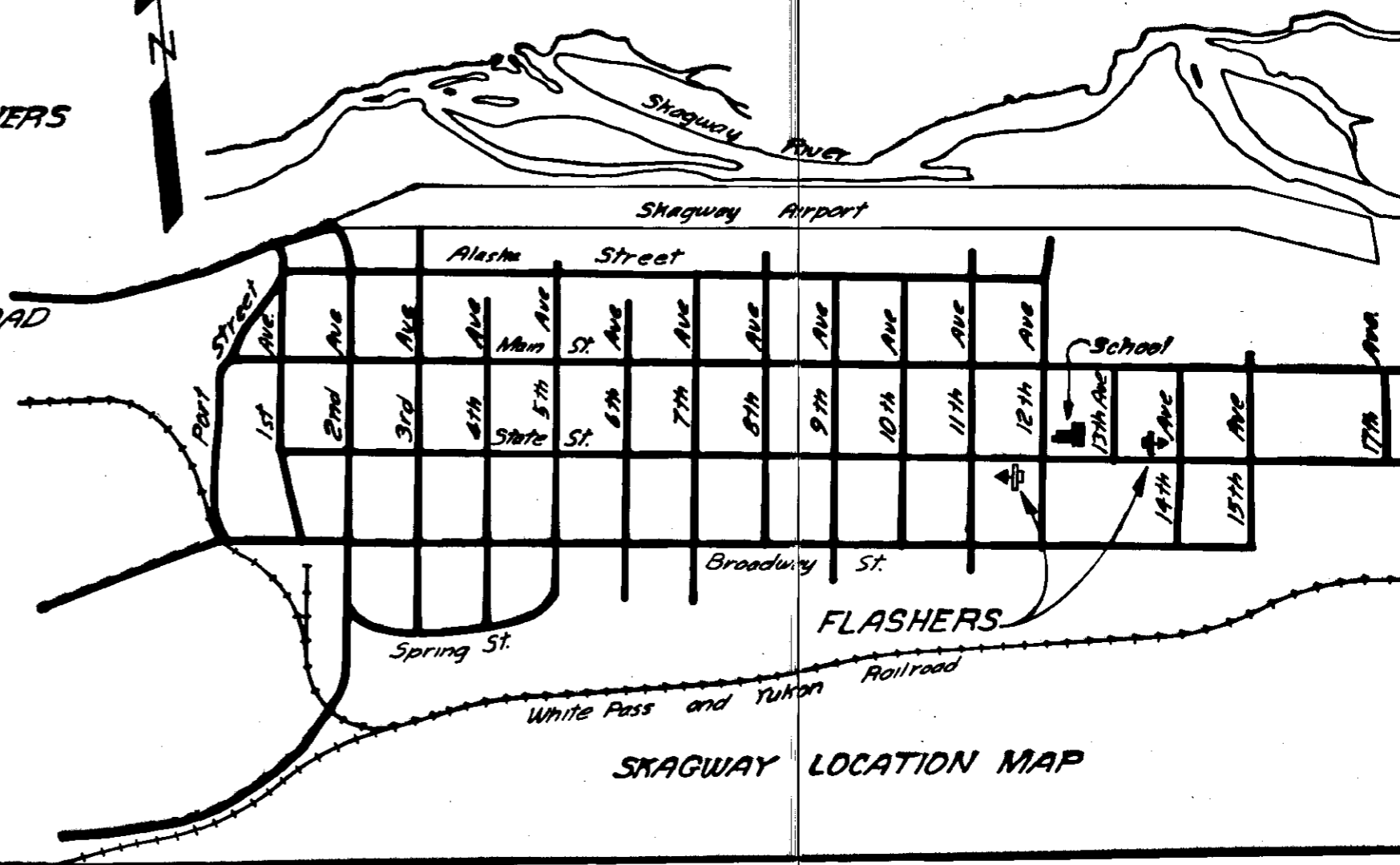
PETERSBURG
LOCATION MAP

LOCATION MAPS

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S&F-9999(1)	6	21



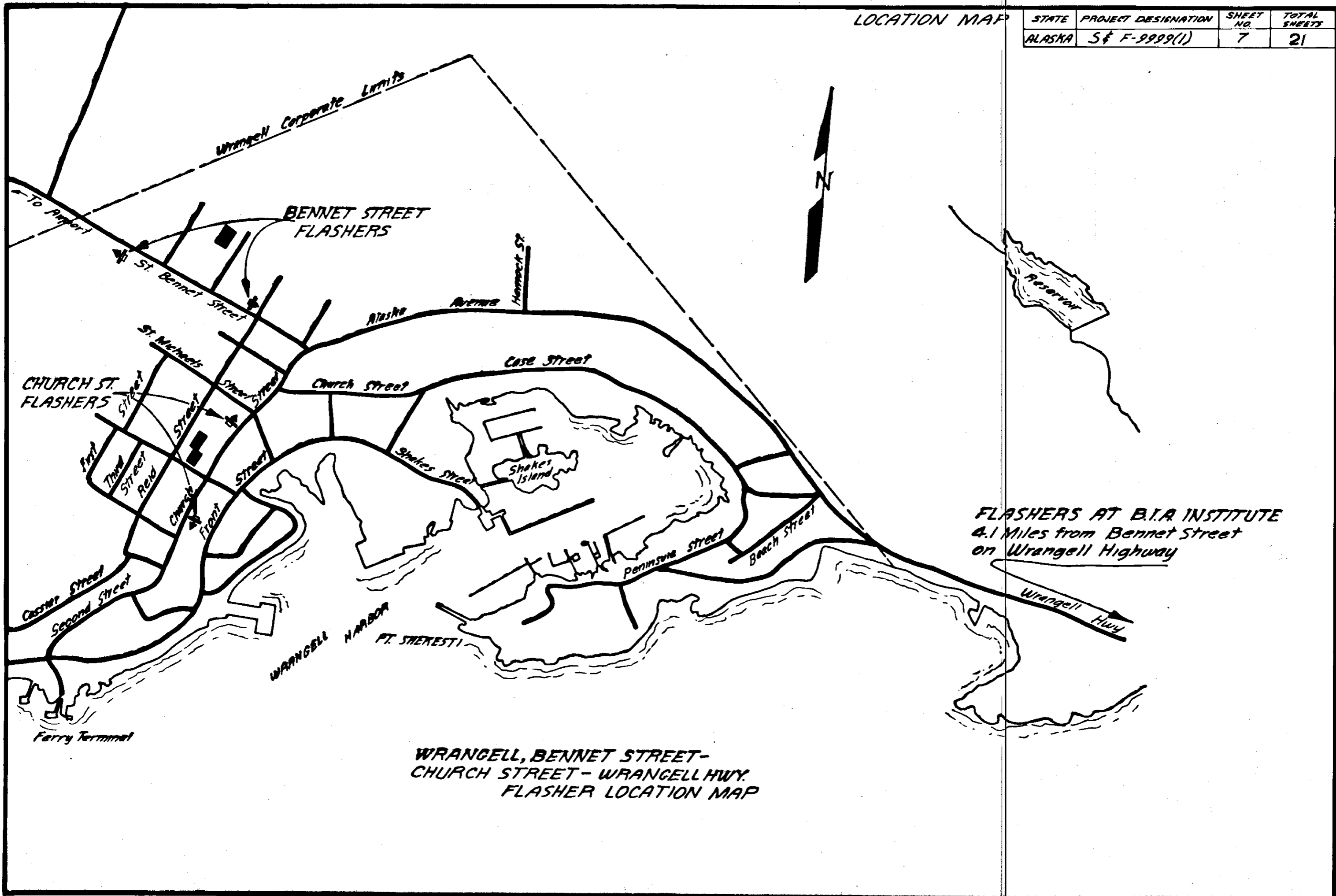
SITKA, HALIBUT POINT ROAD
 SITKA, JAPONSKI ISLAND
 SITKA, SAWMILL CREEK ROAD
 LOCATION MAP



SKAGWAY LOCATION MAP

LOCATION MAP

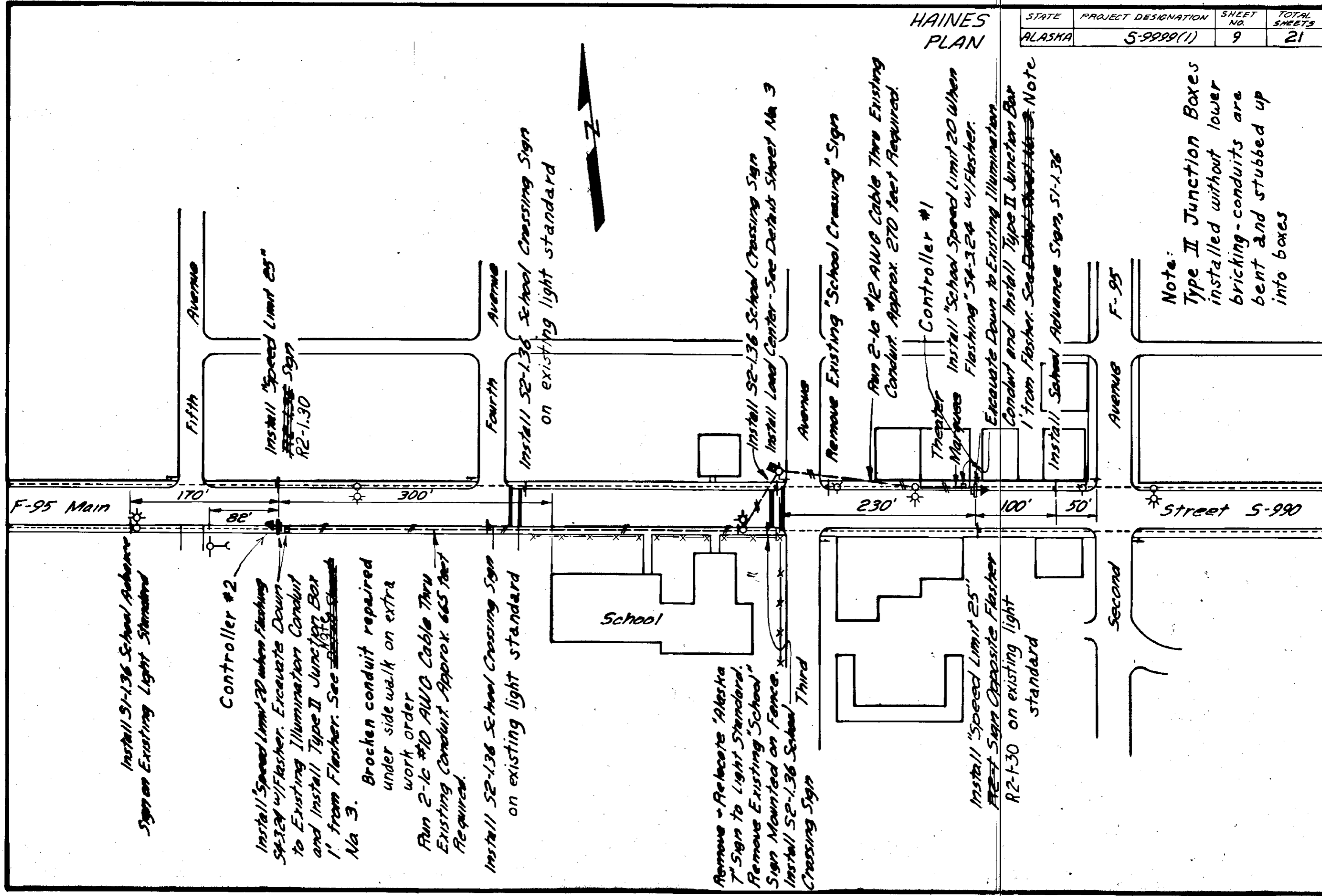
STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S& F-9999(1)	7	21



WRANGELL, BENNET STREET-
CHURCH STREET - WRANGELL HWY.
FLASHER LOCATION MAP

HAINES PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	5-9999(1)	9	21



Install S1-1.36 School Advance Sign on Existing Light Standard

Controller #2

Install Speed Limit 25" 54-324 w/Flasher. Excavate Down to Existing Illumination Conduit and Install Type II Junction Box 1' from Flasher. See ~~Sheet Na 3~~ Na 3.

Broken conduit repaired under side walk on extra work order

Run 2-16 #10 AWG Cable Thru Existing Conduit Approx. 665 feet Required.

Install S2-1.36 School Crossing Sign on existing light standard

School

Remove - Relocate 'Alaska 7" Sign to Light Standard. Remove Existing 'School' Sign Mounted on Fence. Install S2-1.36 School Third Crossing Sign

Install Speed Limit 25" ~~R2-1.30~~ R2-1.30

Install S2-1.36 School Crossing Sign on existing light standard

Install S2-1.36 School Crossing Sign Install Load Center - See Details Sheet Na 3

Remove Existing "School Crossing" Sign

Run 2-16 #12 AWG Cable Thru Existing Conduit. Approx. 270 feet Required.

Controller #1

Install "School Speed Limit 20 When Flashing" 54-324 w/Flasher.

Excavate Down to Existing Illumination Conduit and Install Type II Junction Box 1' from Flasher. See ~~Sheet Na 3~~ Note

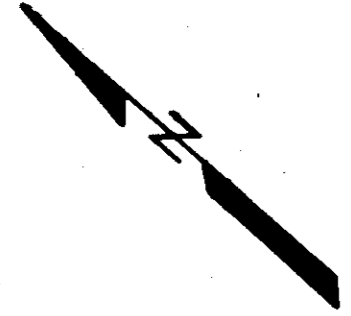
Install School Advance Sign, S1-1.36

Install "Speed Limit 25" ~~R2-1.30~~ R2-1.30

Sign Opposite Flasher on existing light standard

Note:
Type II Junction Boxes installed without lower bricking - conduits are bent and stubbed up into boxes

Bridge



JUNEAU AT CORDOVA ST. PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	F-9999(1)	11	21

Install "Speed Limit 30" ~~Sign~~ R2-1.30

Remove Existing "School Crossing Ahead" and Install SI-1.36 Advance School Sign.

Remove Existing "Speed Limit 30" Sign

Install "School Speed Limit 20 when Flashing SA-3.24 Sign w/Flasher. Provide type I J-Box.

Controller #2

Remove Existing "School Speed Limit 20 when Children are Present SA-9 Sign.

Remove Existing "School Crossing" and Install SE-1.36 School Crossing Sign.

Run 2-1c #8 AWG Cable underground in 2" Conduit from load center to for flasher. Approx. 750 feet req'd.

2" Conduit run moved across street

Install "Speed Limit 30" R2-1.30.36

~~Install Type I J-Box on back side of road and jack 2" conduit under road for cable to flasher~~

Relocate Existing "Speed Limit 40" R2-1.40.36 150 feet South of Exist Location.

Install "Speed Limit 30" ~~Sign~~ R2-1.30
Installed JB and jacked conduit under roadway 3' deep

2" Conduit installed

- JB1 - Base 50' 3' ^{Shoulder from}
- JB1 - JB2 40' 3' "
- JB2 - JB3 - 200' 3' "
- JB3 - JB4 - 170' 6' "
- JB4 - JB5 - 200' 6' "

Remove Existing "School Crossing" and Install SE-1.36 School Crossing Sign.

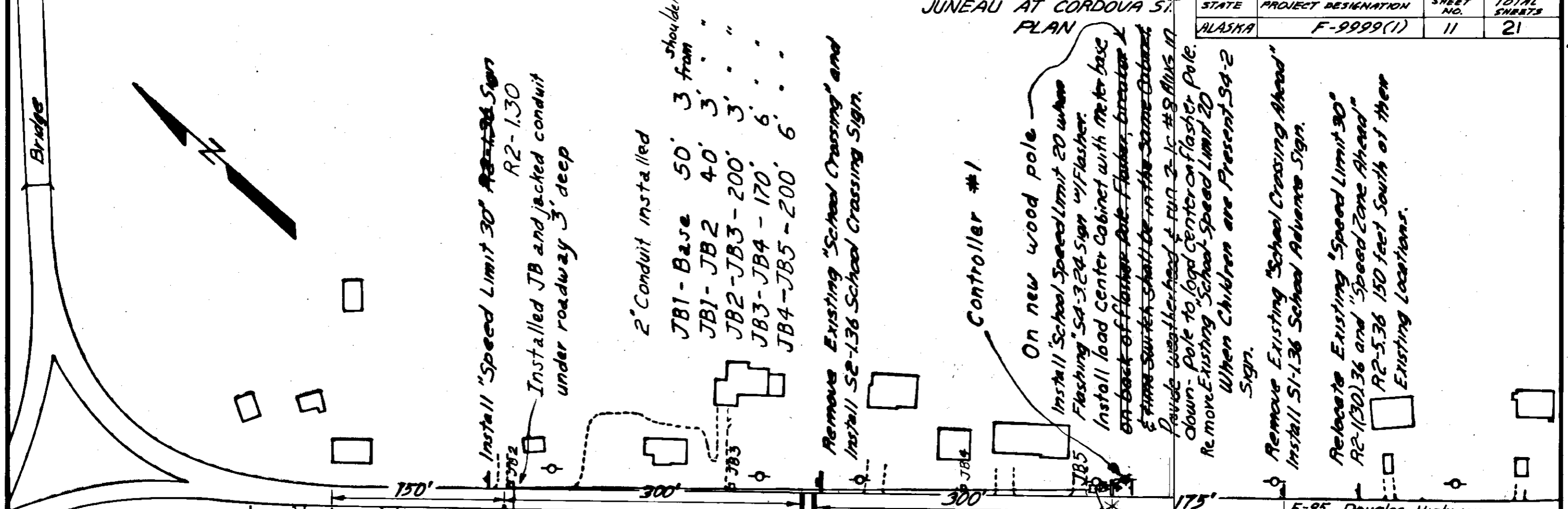
Controller #1

On new wood pole

Install "School Speed Limit 20 when Flashing" SA-3.24 Sign w/Flasher.
Install load center cabinet with meter base on back of flasher pole. Flasher, breaker & time switch shall be in the same cabinet.
Provide weather head & run 2-1c #8 AWG down pole to load center on flasher pole.
Remove Existing "School Speed Limit 20 when Children are Present SA-2 Sign.

Remove Existing "School Crossing Ahead" and Install SI-1.36 School Advance Sign.

Relocate Existing "Speed Limit 30" R2-1.30.36 and "Speed Zone Ahead" R2-5.36 150 feet South of their Existing Locations.



Install SI-136 Advance School Sign
 Remove Existing S4-2 "School Speed Limit 20 when Children are Present"

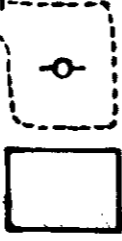
Controller #1

Install "School Speed Limit 20 when Flashing" S4-3.24 Sign. Provide Type I J-Box each Side of road.

2" Conduit jacked under roadway 3' deep

Private Drive

← Glacier Valley School
 Remove Existing "School Crossing Stop When Occupied" Sign
 Install S2-136 School Crossing Sign



Controller #2

Install "Speed Limit 45" ~~S4-3.24~~ Sign R2-1.30

2" Conduit installed

- JB1 - Base 15'
- JB1 - JB2 - 43'
- JB2 - JB3 - 200'
- JB3 - JB4 - 100'
- JB4 - JB5 - 200'
- JB5 - JB6 - 75'
- JB6 - Base 15'

All 2" conduit installed 8' from edge of roadway 2' deep

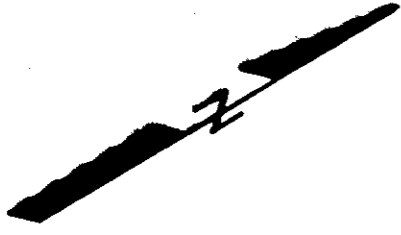
Loop Road S-966

275'

300'

340'

275'



Install "Speed Limit 45" ~~S4-3.24~~ Sign R2-1.30

JB2

Run 2-1c #12 AWG cable underground in 2" Conduit from load center to flasher. Approx. 350 feet Required.

JB3

JB4 Remove Existing Flasher.

Remove Existing "School Crossing Stop When Occupied". Install S2-136 School Crossing Sign. Install load center. For details see sheet No. 3. Provide Type I J-Box & 2" Conduit from load center to J-Box.

Run 2-1c #12 AWG cable underground in 2" Conduit from load center to flasher. Approx. 350' Req'd.

JB5

Provide J-Box + Run 2-1c #12 AWG Cable in Conduit - Under Road to Flasher. Approx. 90 feet Req'd.

JB6 Install "School Speed Limit 20 when Flashing" ~~S4-3.24~~ Sign w/Flasher S4-3.24

Remove Existing S4-3 "School Speed Limit 20 when Children are Present"

Install SI-136 School Advance Sign.

Remove Existing "Speed Zone Ahead"

JUNEAU - LOOP ROAD
~~NORTH~~ South

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	12	21

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999 (1)	1972	13	21

JUNEAU - LOOP ROAD
~~South~~ North

- 2" Conduit installed
- JB1 - base 15'
 - JB1 - JB2 43'
 - JB2 - JB3 200'
 - JB3 - JB4 200'
 - JB4 - JB5 200'
 - JB5 - base 40'
 - JB2 - service 34'

Installed 8' from edge of roadway 2' deep

Install "Speed Limit 45" ~~R2-1.30~~ Sign

Install Type I J box on each side of road Jack 2" conduit under roadway for power cable & cable to flasher.

Provide weatherhead & run 2-lc #8 in 2" conduit down pole load center on flasher pole. Connection by utility approx. 90' req'd

Run 2-lc #8 AWG from load center to far flasher in 2" conduit approx. 650' req'd.

Install S2-1.36 School Crossing Sign each side of road as directed by the Engineer.

Install School "Speed Limit 20 when flashing" ~~S4-3.36~~ sign with flasher.

Controller #2

Install S1-1.36 School Advance Sign.

Install S1-1.36 Advance School Sign

Controller #1

Install School Speed Limit 20 when flashing ~~S4-3.24~~ sign with flasher. S4-3.24 Install load center cabinet with meter base on back of flasher pole. ~~Flasher cabinet~~ ~~Flasher cabinet~~ ~~Flasher cabinet~~

On new wood pole.

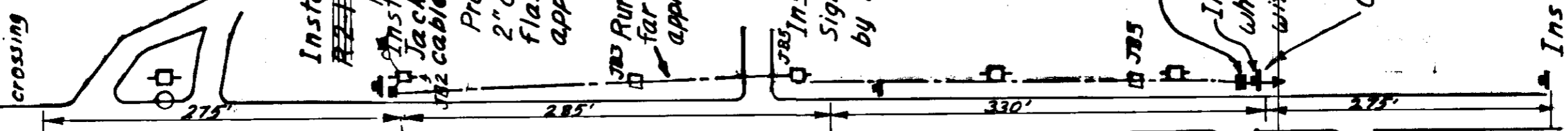
Note: Signs at this location shall be covered using an opaque material securely fastened to the sign. Burlap or plastic shall not be used.

Install "Speed Limit 45" ~~R2-1.30~~ Sign.

Jr. High School

Petrolane

South



STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	14	21

S-997

D Street

Install SI-1.36, Advance School Sign

Controller #1
 Install School Speed Limit 20 when Flashing
 S4-3.24 Sign w/flasher. Provide Weatherhead & Run
 2-1c #12 AWG Cable in Conduit Down Pole to
 flasher. Approximately 30 feet required.

85' 142' 10'

C Street

#6 Triplex
 Run ~~#12 AWG~~ Cable Overhead from
 Load Center to Weatherhead. Approximately
 350 feet required.

High School

Grade School

B Street

#6 Triplex
 Run ~~#10 AWG~~ Cable
 Overhead from Load Center
 to Weatherhead. Approx.
 520 feet required.

First Street

Install Load Center
 For details see Sheet
 No. 3

Install Speed
 Limit ~~20~~ 25
~~R2-1.30~~
 Sign

Third Street

Install S4-3.24 "School Speed
 Limit 20 when Flashing" Sign
 w/flasher. Provide Weatherhead
 and Run 2-1c #12 AWG Cable in
 Conduit under Road to flasher.
 Approx. 70 feet required.

Controller #2

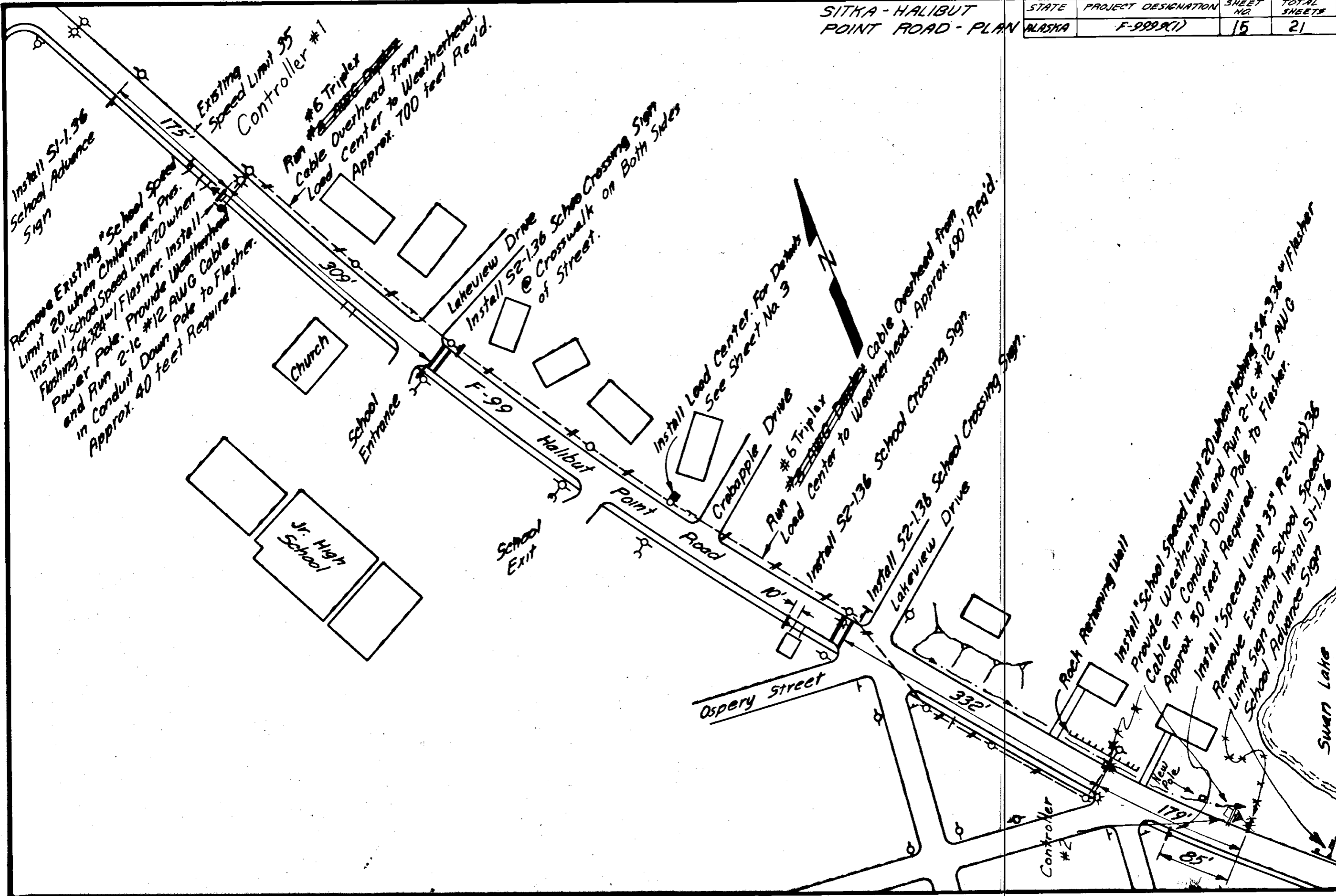
Install SI-1.36 School Advance Sign.

S-997 Wrangell Ave



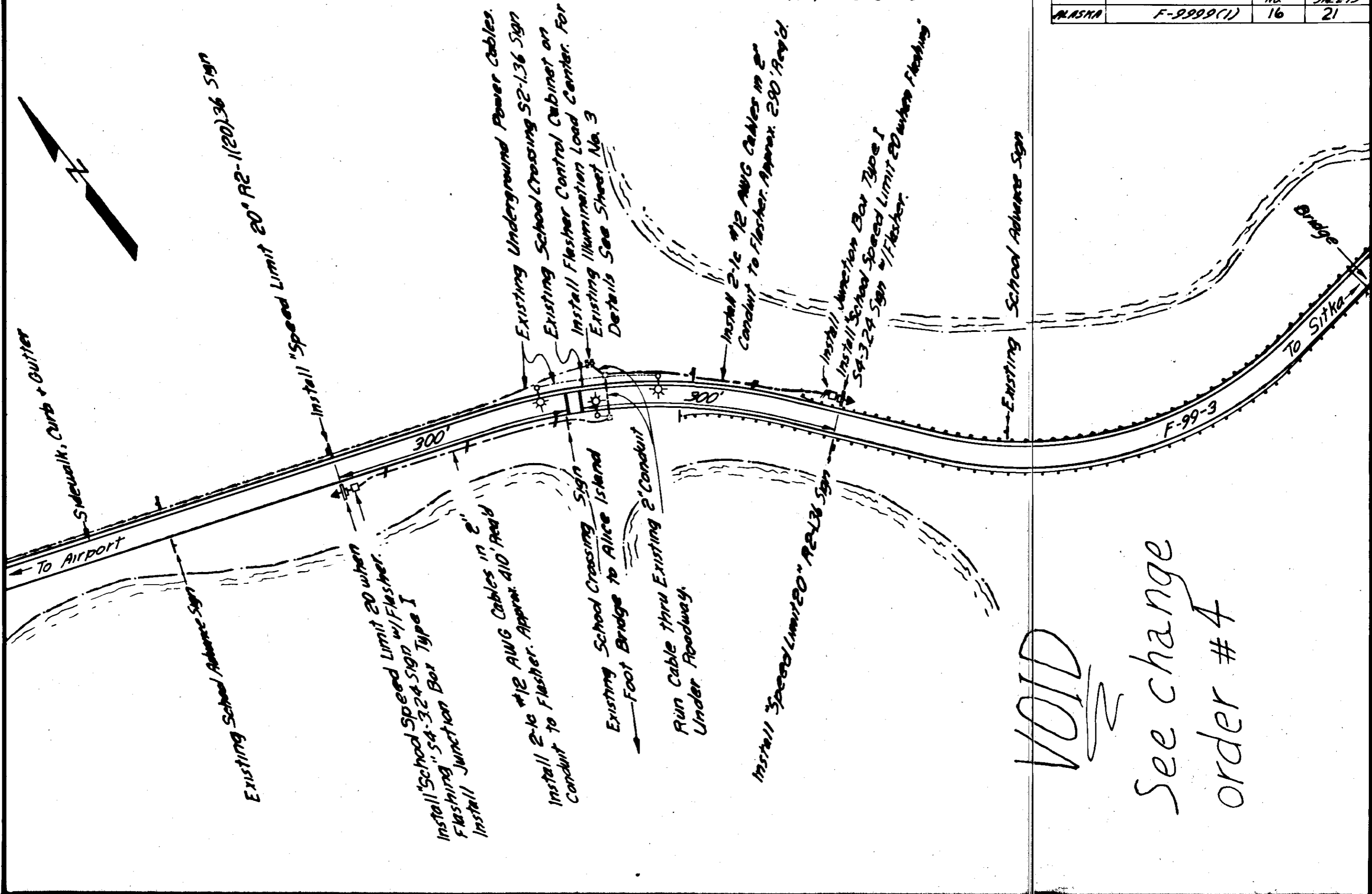
SITKA - HALIBUT
POINT ROAD - PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	F-9999(1)	15	21



SITKA TO JAPONSKI ISLAND

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	F-9999(1)	16	21

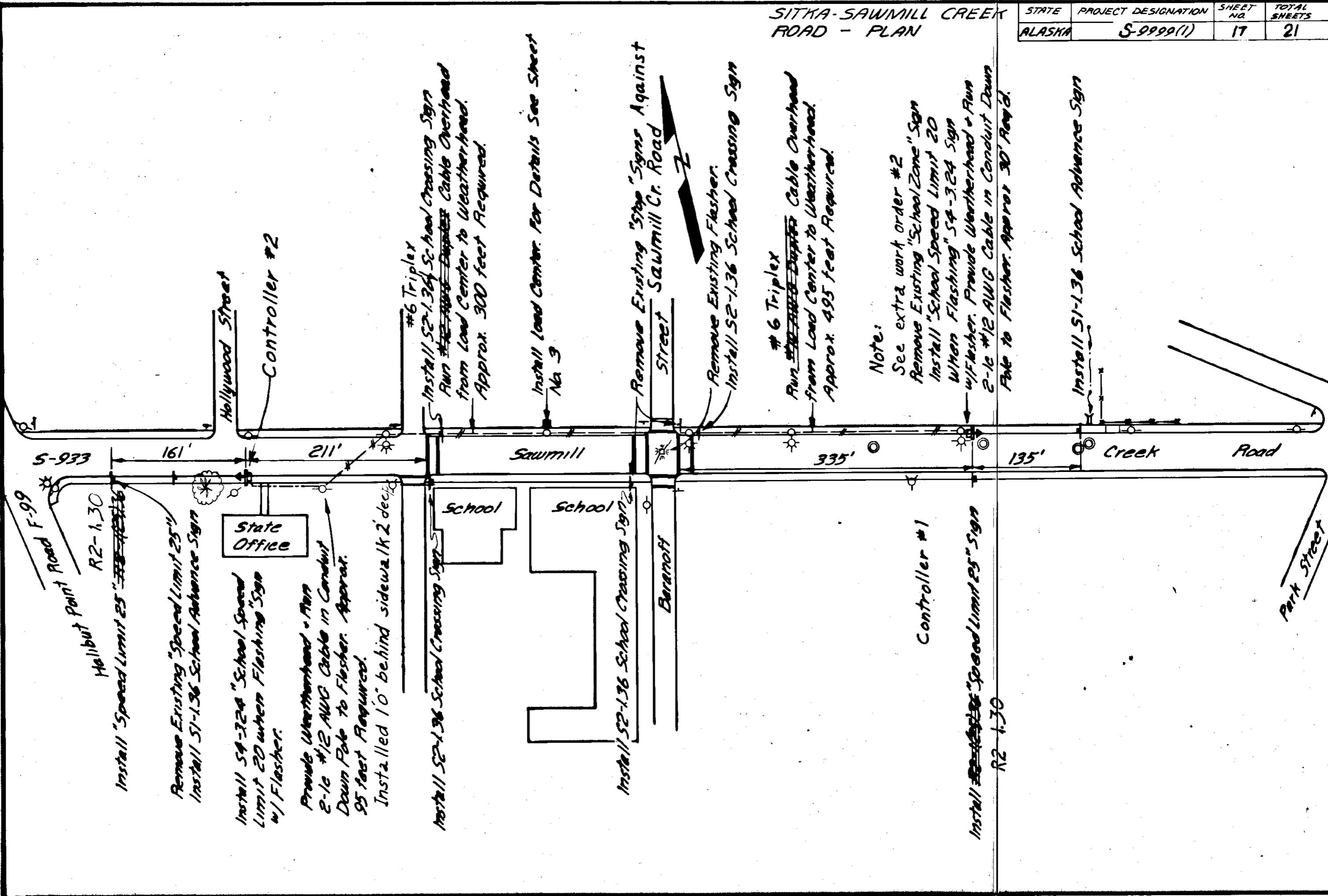


VOID

See change
order # 4

SITKA-SAWMILL CREEK ROAD - PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	17	21



Note:

See extra work order #2
 Remove Existing "School Zone" Sign
 Install "School Speed Limit 20
 When Flashing" S4-3.24 Sign
 w/ Flasher. Provide Weatherhead & Run
 E-1c #12 AWG Cable in Conduit Down
 Pole to Flasher. Approx 30' Road.

Install "Speed Limit 25" ~~S1-1.36~~

Remove Existing "Speed Limit 25"
 Install S1-1.36 School Advance Sign

Install S4-3.24 "School Speed
 Limit 20 when Flashing" Sign
 w/ Flasher.

Provide Weatherhead & Run
 E-1c #12 AWG Cable in Conduit
 Down Pole to Flasher. Approx.
 95 feet Required.

Installed 10" behind sidewalk 2' dec.

Install S2-1.36 School Crossing Sign

Install S2-1.36 School Crossing Sign

Install ~~S1-1.36~~ "Speed Limit 25" Sign
 R2-1.30

#6 Triplex
 Install S2-1.36 School Crossing Sign
 Run ~~S1-1.36~~ Cable Overhead
 from Road Center to Weatherhead.
 Approx. 300 feet Required.

Install Land Center. For Details See Sheet
 No 3

Remove Existing "Stop" Signs Against
 Street Sawmill Cr. Road

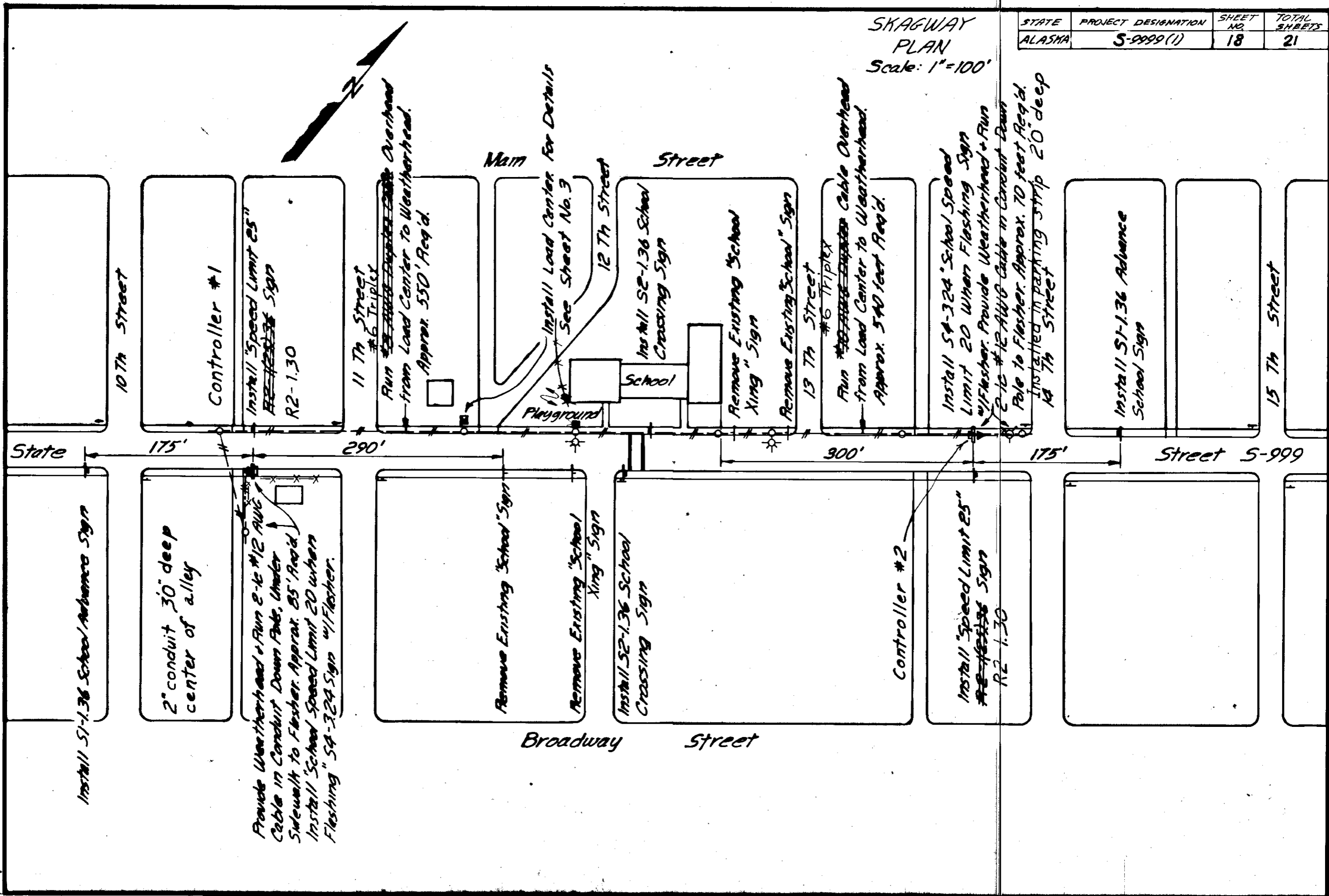
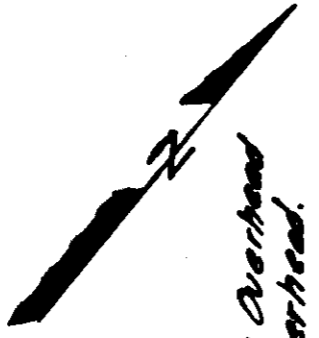
Remove Existing Flasher.
 Install S2-1.36 School Crossing Sign

#6 Triplex
 Run ~~S1-1.36~~ Cable Overhead
 from Road Center to Weatherhead.
 Approx. 495 feet Required.

Install S1-1.36 School Advance Sign

SKAGWAY
PLAN
Scale: 1"=100'

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	18	21



Install S1-1.36 School Advance Sign

2" conduit 30" deep center of alley

Provide Weatherhead + Run E-1c #12 AWG Cable in Conduit Down Pole, Under Sidewalk to Flasher. Approx. 85' Road. Install "School Speed Limit 20 when Flashing" SA-3.24 Sign w/Flasher.

Remove Existing "School" Sign
Remove Existing "School Xing" Sign

Install S2-1.36 School Crossing Sign

Controller #2

Install "Speed Limit 25" ~~S1-1.36~~ Sign R2 1.30

10th Street

Controller #1

Install "Speed Limit 25" ~~S1-1.36~~ Sign R2-1.30

11th Street #6 Triplex

Run ~~S1-1.36~~ Overhead from Load Center to Weatherhead. Approx. 550' Road.

Mam Street

Install Load Center For Details See Sheet No. 3

12th Street

Install S2-1.36 School Crossing Sign

Remove Existing "School Xing" Sign

Remove Existing "School" Sign

13th Street #6 Triplex

Run ~~S1-1.36~~ Cable Overhead from Load Center to Weatherhead. Approx. 540 feet Road.

Install SA-3.24 "School Speed Limit 20 when Flashing Sign w/Flasher. Provide Weatherhead + Run Pole to Flasher. Approx. 70 feet Road. Installed in parking strip 20' deep at 7th Street

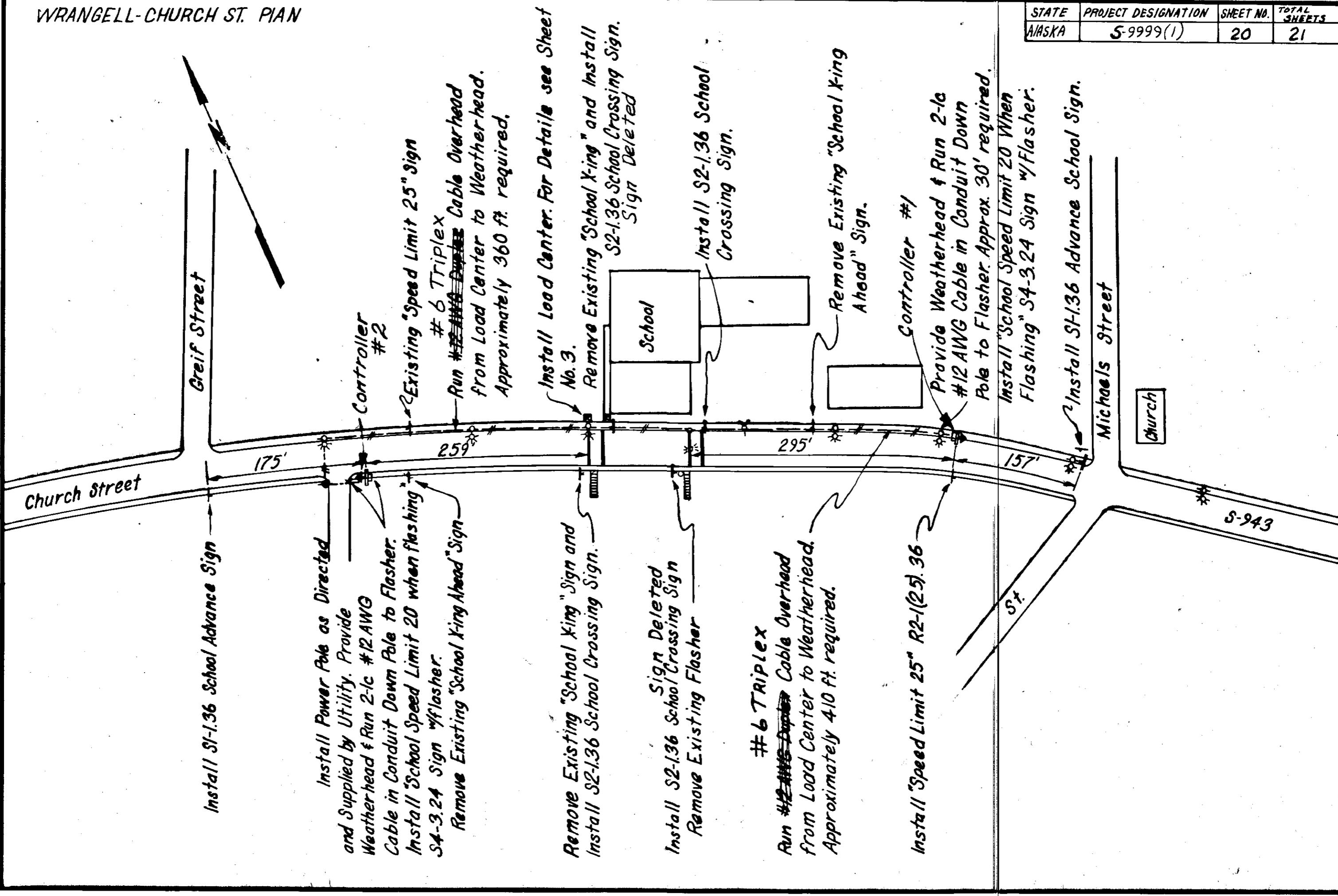
Install S1-1.36 Advance School Sign

15th Street

Street S-999

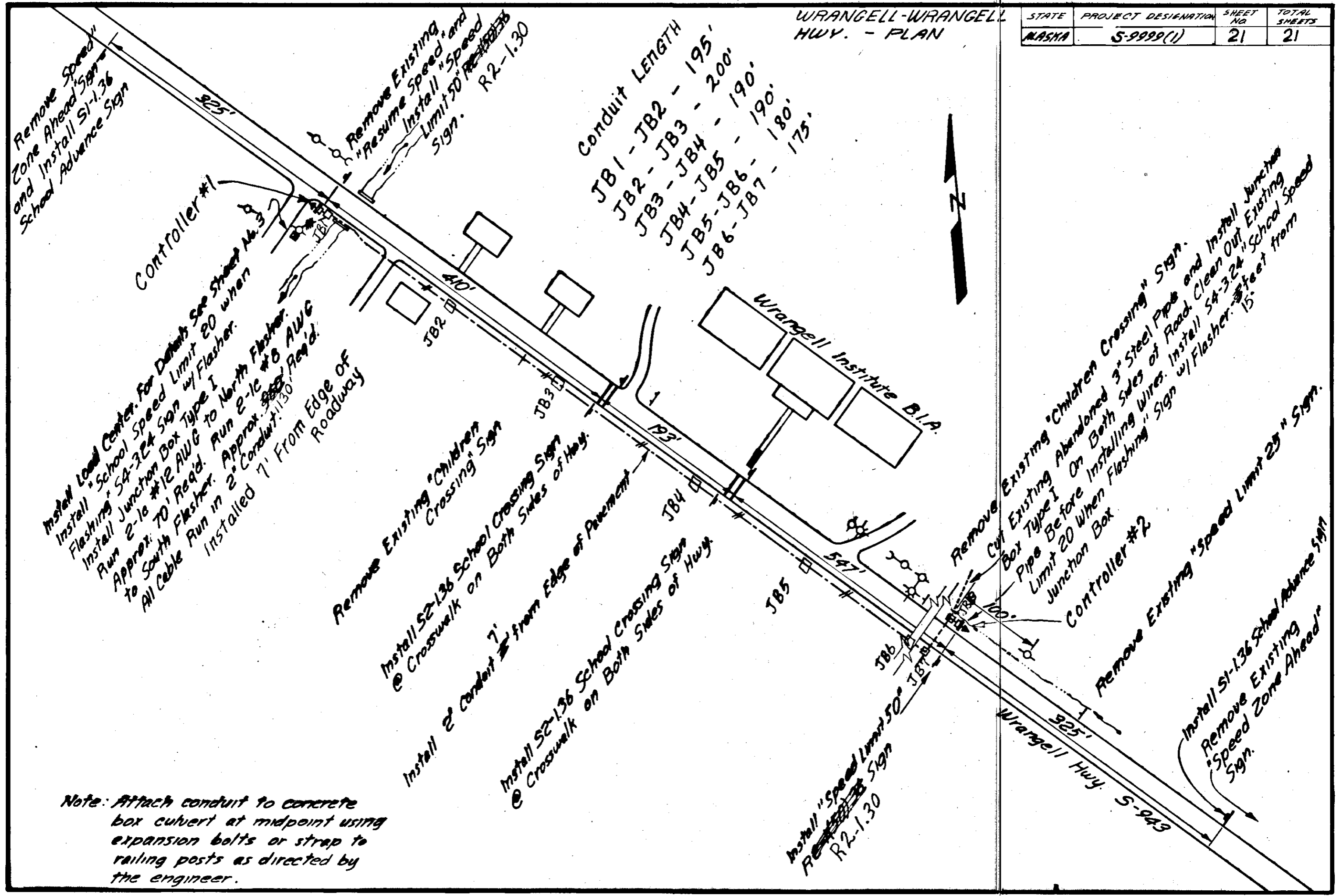
WRANGELL-CHURCH ST. PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	20	21



WRANGELL-WRANGELL
HWY. - PLAN

STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	S-9999(1)	21	21



Note: Attach conduit to concrete box culvert at midpoint using expansion bolts or strap to railing posts as directed by the engineer.

