MICROFILMED

By V. W. Throw DATE 9-5-06

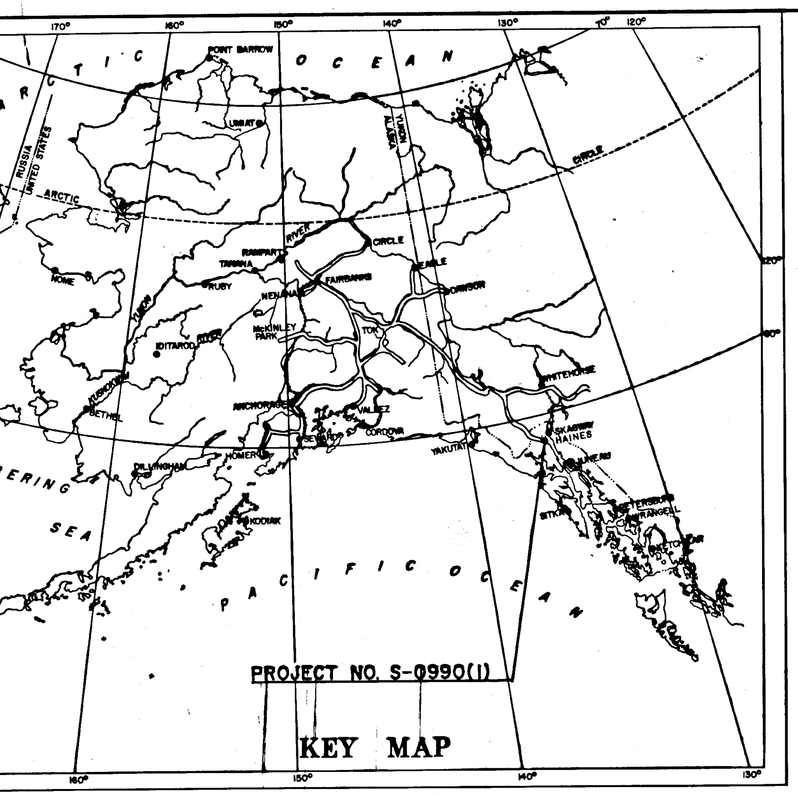
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	1	25

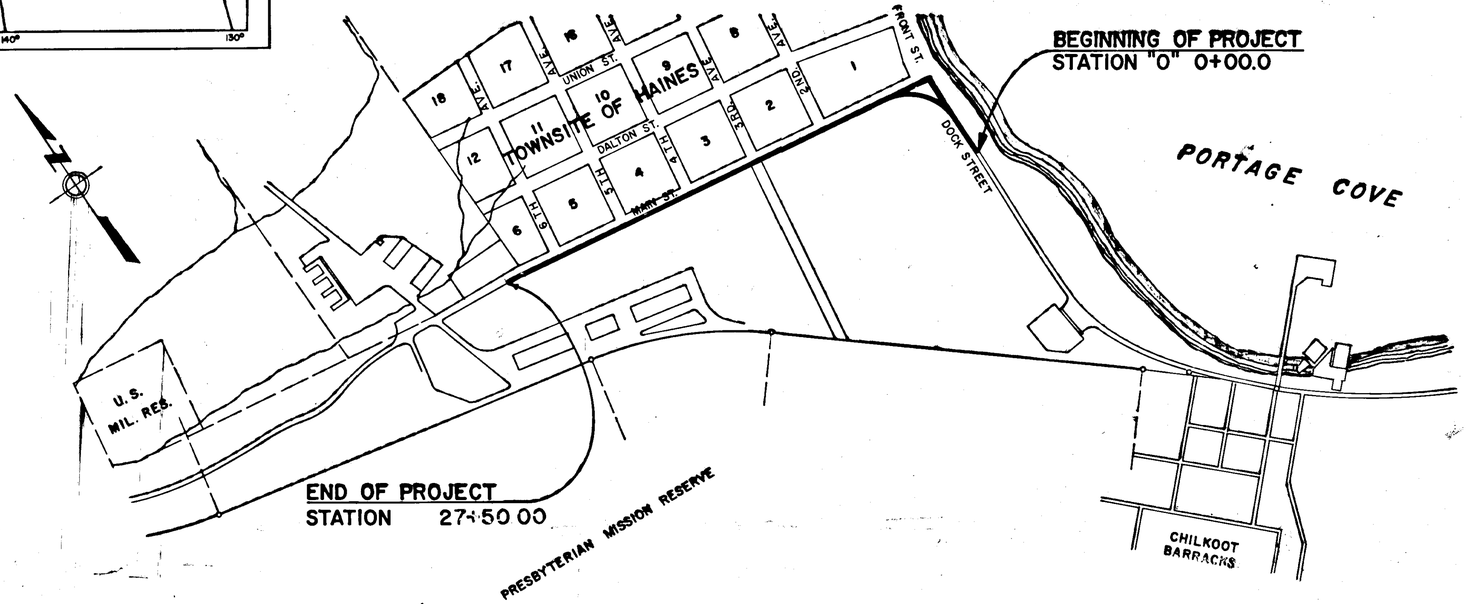
TYPE 6201 IMPROVEMENT

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

NO. S-0990(1)
MAIN ST., CITY OF HAINES
GRADING, DRAINAGE & PAVING

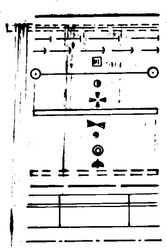




SCALE

CONVENTIONAL SIGNS

PROPOSED CONSTRUCTION CENTERLINE
NEW PERFORATED PIPE DRAINAGE LINE
EXISTING WATER LINE
EXISTING SEWER LINE
CURB INLET
POWER POLE
HYDRANT
STREET MONUMENT
CORR. METAL PIPE
VALVE BOX
CLEANOUT
MANHOLE
EXISTING METER BOX
EXISTING UTILIDOR
RIGHT-OF-WAY LINE
CURB CUT
U.C.S. UNDERGROUND CABLE



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & ESTIMATE OF QUANTITIES
3-8	PLAN AND PROFILE SHEETS
9	LIGHTING & RETAINING WALL DETAILS & EARTHWORK SUMMARY
10	INTERSECTION DETAIL
11	SIDEWALK STEPS & DETAILS
12-15	CULVERTS & MISCELLANEOUS WORK
16	SUMMARY OF STANDARD MONUMENT CASES
17	SUMMARY OF STANDARD SIGNS
S 1	STANDARD CULVERTS
S 2	STANDARD END SECTIONS
S 3	STANDARD APPROACHES
S 5	STANDARD BARRICADE
S 6	STANDARD IDENTIFICATION SIGNS
S 7	TYPICAL SIGNS
S 8	STANDARD BEAM GUARD RAIL
S 10	STD DROP INLETS, CATCH BASINS & MANHOLES

DESIGN DESIGNATION
ADT (1959) = 354
ADT (1980) = 1400
DHV = 182
D = 60%
T = 5%
V = 30 MPH

Field reports of the foundation soils and the type of materials found in the listed pits for this project are available for inspection in the Dept. of Public Works, Division of Highways, Headquarters office at Juneau.

Detail cross sections for this project are available for inspection in the Headquarters office at Juneau.

PROJECT SUMMARY

WIDTH OF SUBGRADE	60'
WIDTH OF PAVEMENT	26.5' & 41'
LENGTH OF GRADING	2,819.18' = 0.534 MI.
LENGTH OF PAVING	~~2,819.18' = 0.534~~ MI.
LENGTH OF PROJECT	2,819.18' 0.534 MI.

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF HIGHWAYS

APPROVED
J. D. Gerard Date 5/12/61
DIRECTOR, DIVISION OF HIGHWAYS

APPROVED
Date
REGIONAL ENGINEER
BUREAU OF PUBLIC ROADS
REGION TEN

AS BUILTS

Contractor: ROGERS CONST. & BABLER BROS.
Pro. Engineer: FRANK DARNIELL
Began Project: 8-8-61
Ended Project: 8-31-62

As built: entered 4-2-65 by R. Ward

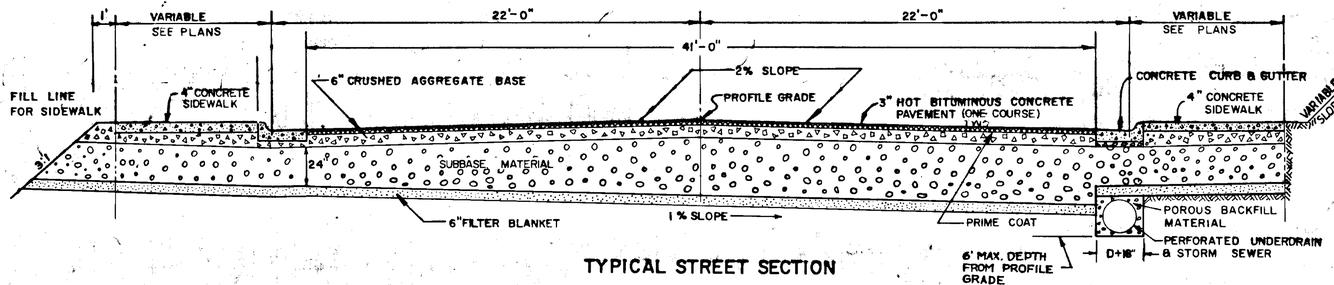
Title Sheet

MICROFILMED

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	S-0990(1)	1961	2

BY [illegible] DATE 9-5-66

AS BUILT



TYPICAL STREET SECTION

STA. "0" 3+18.12 – STA. 25+62.82

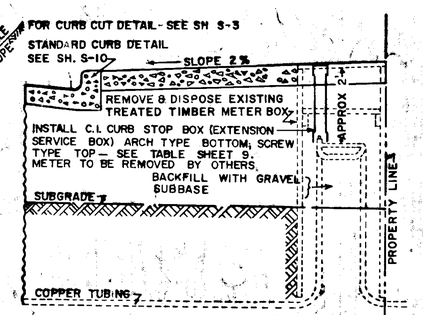
Note: 3" Hot Bit. Conc. Pavement Laid in 2-1½" Lifts

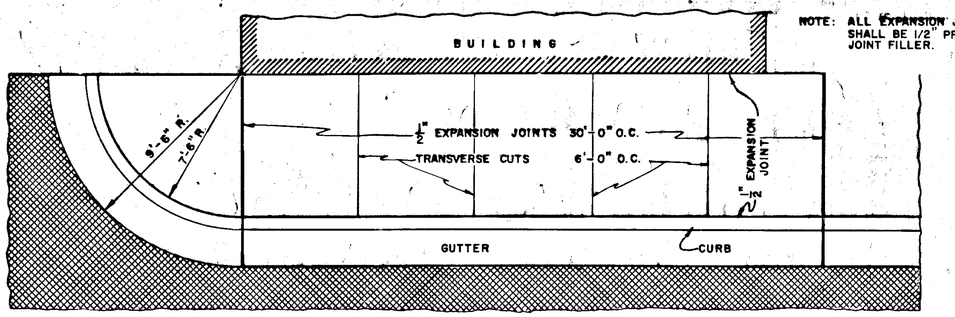
NOTE: FOR TYPICAL SECTION STA. "0" 0+00 - STA. "0" 3+18.12 SEE BELOW. FOR STA. 25+62.82 to Sta. 27+50 SEE SHEET 9

NOTE: MAIN LINE OF PERFORATED PIPE UNDERDRAIN FALLS DIRECTLY UNDER GUTTER AS SHOWN ON TYPICAL SECTION, SHOWN OTHERWISE ON PLANS FOR CLARITY.

TYPICAL SIDEWALK & METER BOX SECTION

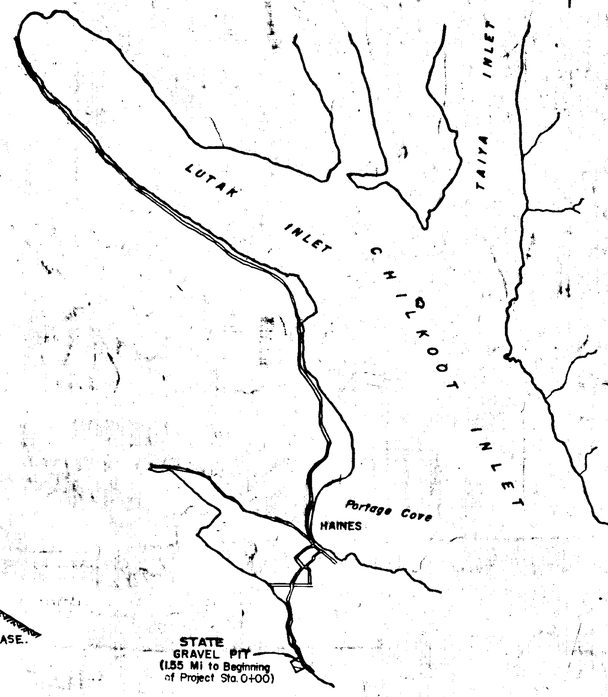
SCALE ½" = 1'-0"



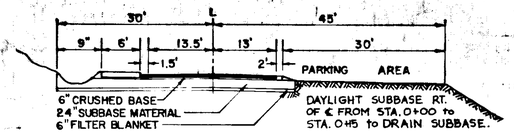


NOTE: ALL EXPANSION JOINTS SHALL BE 1/2" PREMOLDED JOINT FILLER.

TYPICAL EXPANSION & CONTRACTION JOINT DETAILS

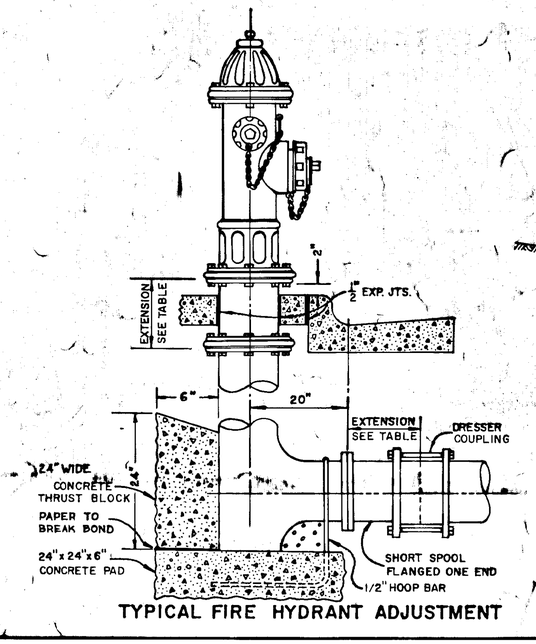


LISTED BORROW SOURCE

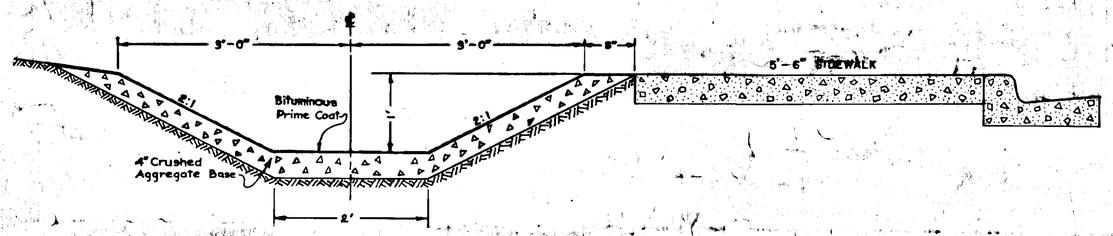


TYPICAL SECTION

Sta. "0" 0+00 to Sta. "0" 3+18.12



TYPICAL FIRE HYDRANT ADJUSTMENT



TYPICAL DITCH SECTION

STA. "0" 0+09 – STA. 6 2+30

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
10	All Req'd.	L.S.	Force account as provided in Article 9.5
102(1)	26,400	Cu.Yd.	Unclassified excavation
102(5)	13,600	Cu.Yd.	Borrow excavation, Case 2
102(12)	3,000	Cu.Yd.	Filter Blanket, Case 2
103 (1)	3,000	Cu.Yd.	Excavation for structures
200(4)	6,000	Ton	Crushed aggregate base, grading D-1
310(3)	4,000	Gal.	Asphalt, grade MC-0, prime coat
322(1)	2,200	Ton	Hot bituminous concrete pavement
322(2)	31,000	Gal.	Asphalt cement, 120-150 penetration
406(1)	25	Cu.Yd.	Class "A" concrete
453(5C)	346	Lin.Ft.	12" Asbestos-bonded paved invert C.M.P., 16 gage
453(5G)	496	Lin.Ft.	24" Asbestos-bonded paved invert C.M.P., 14 gage
457(1)	305	Lin.Ft.	Removal of pipe culverts
460(26)	2	Each	Bituminous-coated metal end sections for 24" pipe culverts
513(1)	7	Each	Adjusting fire hydrants
514(1)	5300	Lin.Ft.	2" Electrical conduit
515(1)	30	Each	Curb stop box (2" I.D. upper section)
515(2)	1	Each	Curb stop box (4¼" I.D. upper section)
520(5C)	554	Lin.Ft.	12" Bituminous-coated perforated C.M.P. underdrain, 16 gage
520(5D)	534	Lin.Ft.	15" Bituminous-coated perforated C.M.P. underdrain, 16 gage
520(5E)	682	Lin.Ft.	18" Bituminous-coated perforated C.M.P. underdrain, 16 gage
520(5F)	640	Lin.Ft.	21" Bituminous-coated perforated C.M.P. underdrain, 16 gage
521(1)	9	Each	Manholes
521(2)	23	Each	Inlets, Type B
521(3)	1	Each	Catch Basin, Type B
521(10)	17	Each	Adjusting manholes, valve boxes and cleanouts
524(3)	4700	Lin.Ft.	Concrete curb & gutter, 16" depth
530(1)	2900	Sq.Yd.	Concrete sidewalk, 4" depth
530(2)	140	Sq.Yd.	Concrete sidewalk and driveway, 6" depth
561(11)	6	Each	Monument cases
583(1)	25	Lin.Ft.	Beam-type guardrail
584(1)	9	Each	Standard signs
305(1)	3,500	Cu.Yd.	Stockpiled material, Section 200, Grading D-1
305(3)	3,000	Cu.Yd.	Stockpiled Special Sand

HYDRANT ADJUSTMENTS

LOCATION	DISTANCE TO ℄ OF STREET	HORIZONTAL ADJUSTMENT REQUIRED	VERTICAL EXTENSION REQUIRED	HYDRANT MANUFACTURER & SIZE	REMARKS
STA. 4+44.7					REMOVE
STA. 4+84.6	20'-8 1/2"	38"	- 6"	6" PACIFIC	
STA. 7+63.4	22'-10"	12"	- 6	6" PACIFIC	
STA. 10+53.1	22'-9"	14"	0	6" PACIFIC	
STA. 14+27.5	23'-1"	10"	0	4" COREY	
STA. 18+02.5	21-7 1/4"	26"	- 6"	6" PACIFIC	
STA. 21+78.6	21-7 1/2"	26"	-36"	6" PACIFIC	

GENERAL NOTES

ALL UTILITY POLES SHALL BE MOVED BY OTHERS
ALL VALVE BOXES, MANHOLES, & CLEANOUTS SHALL BE ADJUSTED TO GRADE

MONUMENTS WILL BE REFERENCED BY THE ENGINEER
CONTRACTOR SHALL MOVE & RESET.

REMOVED SIDEWALK WILL BE USED FOR RIPRAP AT STA. "F" 1+27.24

ALL BURIED TANKS SHALL BE REMOVED BY OWNERS.

FOR SUMMARY OF EARTHWORK SEE SHEET 9.

CULVERT LENGTHS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS

GRADES AND ALIGNMENT SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS.

ON SHEETS WITH DOUBLE PLAN & PROFILE, UPPER PLAN SHOWS CONSTRUCTION DETAILS WHILE LOWER PLAN SHOWS UTILITIES.

UNDERCUT SIDE STREET APPROACHES AS STAKED BY THE ENGINEER BACKFILL WITH BORROW CASE 2

ALL PREMOLDED EXPANSION JOINT MATERIAL SHALL MEET THE REQUIREMENTS OF AASHO M33-48.

WASTE MATERIAL PLACED IN SCHOOL YARD SHALL BE ROUGH GRADED AS DIRECTED BY THE ENGINEER.

TABLE OF APPROACHES

STATION	DESCRIPTION
"F" 0+42	Type 1A Approach Rt.
"F" 0+93	Type 1A Approach Rt
"0" 3+28	Type 2 Curb Cut Rt.
"0" 3+27	Type 2 Curb Cut Lt
3+98	Type 1 Curb Cut Rt.
4+64	Type 2 Curb Cut Rt.
5+00	Type 1 Curb Cut Lt.
10+19	Type 1 Curb Cut Rt.
13+77	Type 2 Curb Cut Rt
15+12	Type 1 Curb Cut Rt.
19+24	Type 1 Curb Cut Lt.
21+00	Type 2 Curb Cut Rt.
20+13	Type 1 Curb Cut Lt.
21+62	Type 1 Curb Cut Lt

Haines City Streets

MICROFILMED

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	5	26

AS BUILT

BY V. A. Nash 9-8-00

Install curb inlet inl. el. 25.00 88.5
Install 24" x 74' C.M.P.
Begin Project 0+00
Or 0+05.5
0+09 Install field inlet inl. el. 22.7
Interception ditch bituminous primed
R.O.W.
Construct 5.5' sidewalk & curb and gutter
"G" Line
Dock Street "E"
"O" Line
N04°25'W 225.84'
Edge of pavement
U.S.C. & G.S. Bench Mark Tablet set in stone Elev. 24.99'
"G" 1+00.97 P.C. (15°14') = "O" 1+00.31 P.O.T.
Parking area
(destroyed) U.S.L.M 575
P.P.P.
Small Boat Harbor
Adjust valve box
MAIN ST.
Adjust manhole
Sidewalk
"F" 0+41.05 P.C.
End of Pavement
Install 24" x 86' C.M.P. N9°08'E
"F" Line
Fl. 25.7
Fl. 25.3
24" x 10'
N18°43'E
Front Street "E"
Install 24" x 36' C.M.P.
Δ = 9°35'
D = 7°30' Rt
T = 64.04
L = 127.78
R.O.W.
Riprap Composed of Removed Sidewalk
F.L. 24.1

Note: for intersection details see sheets 4 & 10.

0+00 Begin Project Elev. 28.2 Warp to meet existing grade
Elev. 29.50 30' V.C.
+2.08%
+1.36%
+4.08%
Inlet "O" 2+47.42 Invert Elev. 28.6 31.6
Elev. 31.78 15
No V.C. 30
Elev. 31.78
Manhole "O" 2+39.34 Invert Elev. 25.8
Inlet "O" 2+52.54 Invert Elev. 26.6
End Pavement & Base "F" 0+60 0+38.9
-1.0%
Manhole "F" 1+05.09 Invert. Elv. 25.3
-1.54%
Elev. 30.20 30' V.C.
-4.0%
Elev. 28.8 Warp to existing grade
12" x 68' C.M.P.
Dock Street
+20
+25.84
No V.C. 30.26
"O" 2+27.04 Bk. = "F" 0+00 Ahd.
6' Below "E" Grade
12" x 68' C.M.P.
24" x 72' C.M.P.
Elv. & Grade to be determined by the Engineer.
Front Street
+50

Install 12" x 110' P.P. Pipe (-2.00%)
Fl. 84.2
Install 15" x 162' P. Pipe
Dalton St.
Invert elevation to be determined by the engineer.
Install manhole Sta. 1+ 1.7
Install 12" x 40' P. Pipe (-1.00%)
Future Street
MAIN STREET
Paving limits
2nd. Ave. "E"
Grade only 200' North 15'
F.L. 83.2

Note: Additional 32.8 sq. yds. sidewalk at Harbor Bar (Sta. "O" 2+25.84) placed under Directive Nº 22

Elev. 77.4
End Pavement, Road & Sidewalk 0+40
Match existing grade Elev. 85.4
Invert 82.8 (15") (12") (12")
+8.0%
+6.19%
-2.0%
+6.13%
Pipe grade to be determined by the engineer
Outlet 70.0
Invert 71.6 Inlet
Invert 71.5 Outlet
7+20.49 = 0+00 2nd. Ave.
Manh. F.L. 72.6
Inlet F.L. 72.7
Elev. 76.6 30' V.C.
+10
+50
2nd. Ave. North

PLATE 2-PLAN-PROFILE O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co. No 346-2C

Beginning of Project and 2nd Ave North

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	S-0990(1)	1961	4

AS BUILT

MICROFILM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	5	26

AS BUILT
MICROFILMED
BY W. Thrower DATE 9.7.66

Construct 5.5' sidewalk & curb and gutter
R.O.W.
Sta. 7+20.49 Install monument case
Future Street
Slope Easement
Remove 3 existing 8"X80' Drain Pipes
Install 24"X20' C.M.P. Outfall
Install curb inlet
Install 24"X48' C.M.P.
Construct 5.5' sidewalk & curb and gutter
Remove existing concrete sidewalk. Construct 7.5' sidewalk & curb and gutter
Utilidor
Remove existing wood sidewalk. Construct 5.5' sidewalk & curb and gutter.
Adjust valve box
Adjust manhole
N 80°55'W 2137.20'
Adjust cleanout
Main Street ℄
30' R.O.W.
Install 18"X150' P.Pipe
Install 18"X98' P.Pipe
Install 18"X40' P.Pipe
Install manhole
Install 12"X8' P.Pipe
Install manhole
Install 18"X8' P.Pipe
Install curb inlet
Install 12"X154' P.Pipe
Install 12"X180' P.Pipe
Gas Pumps to be removed by owner
Adjust valve box
Remove existing sidewalk Construct 7.5' sidewalk & curb and gutter
Install curb inlet
Install curb inlet
2nd Ave ℄
See Sheet 3 for 2nd Ave. Details
Sta 7+63.4 Relocate hydrant, Adjust valve box
Install curb inlet
R.O.W.
Remove existing sidewalk Construct 7.5' sidewalk & curb and gutter.
Const. curb cut

Elev. 75.39 200' V.C. N.P.S.D=200'
Elev. 78.09 200' V.C. N.P.S.D=322'
+10.0%
+1.28% - +1.44
-1.54% ℄
-2.0% - 2.33 ℄
6' Below ℄ Grade
18"X150' P. Pipe
18"X98' P. Pipe
18"X40' P. Pipe
6' Below ℄ Grade
12"X154' P. Pipe
12"X180' P. Pipe
Inlet 6+00.9 Invert Elev. 69.0
Inlet 6+99 Invert Elev. 73.2
M.H. 6+99 Invert Elev. 71.8
Inlet 8+98 Inv. Elev. 71.8
undercut to 2' to excavate muskeg ~ 139 C.Y.
Note: Grade change from Sta 7+50 to sta. 10+50. Grades shown are top curb.

R.O.W.
Main Street ℄
N 80°55'W 2137.20'
2nd Ave ℄
R.O.W
Bjornstad Store Lot 11
King's Drug Lot 12
Oslund Lot 13
Hdwe. Lot 14
Grocery Lot 15
O.P.P.
Powell's Store Lot 1
Lot 2
Hawser Lot 3
Lot 4
Theatre Lot 5
Ellengen Lot
Barn 6
Lapham Lot 7

Note: See Sheet 3 for 2nd Ave. Details

Sta 5+00 to 10+00 Main St.

PLATE 2 PLAN-PROFILE O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E Co. No. 946-204
7-62

U-4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TO SHE
ALASKA	S-0990(1)	1961	G	28

AS BUILT

Remove existing concrete sidewalk. Construct 7.5' sidewalk & curb and gutter

Warp grade to meet existing sidewalk

Grade only 100' South

Existing 18" C.M.P. outfall to remain in place.

Install curb inlet

Sta. 10+95.4 Install monument case

NOTE
Waste Area Behind School

Future Street

Install 12" x 88' C.M.P.

Construct 7.5' sidewalk & curb and gutter

Install curb inlet

0+30

Sta. 14+70.4 Install monument case

Const. 5.5' S.W. R.O.W.

Remove exist. 18" x 65' C.M.P. Install 24" x 52' C.M.P.

Adjust manhole

10 11 12 N 80° 55' W 2137.20' 13 Main Street ℄ 14 15 16

30' R.O.W.

30' R.O.W.

Adjust manhole

Sta. 10+53.1 Relocate hydrant

Adjust valve box

Construct type 1 curb cut

Install manhole

Install 24" X 8' C.M.P.

Install curb inlet

5'

3rd Ave ℄

Install manhole

Install 12" X 8' P Pipe

Porch to be removed by others

Sta. 14+27.5 Relocate hydrant

Adjust valve box

Install manhole

4th Ave ℄

5'

Install manhole

Install 12" X 8' P Pipe

Install curb inlet

Const. 7.5' S.W.

Existing 18' C.M.P. to remain in place

Grade only 200' North

Install 12" X 38' P Pipe

Install curb inlet

R.O.W.

Construct 5.5' sidewalk & curb and gutter

Install 15" X 332' P Pipe

Construct type 2 curb cut

Install 12" X 8' P Pipe

Install curb inlet

Install 15" X 40' P Pipe

Grade only 150' North

Const. 5.5' S.W.

Construct 7.5' sidewalk

Construct type 1 curb cut

Added wooden steps

MICROFILMED

BY V. Witherow DATE 7-8-96

90 80 70 60

-1.54% CH
-2.33% Ket.

K.P.T. 125.8

Rt. Inl. +7.5 Inv. Elev. Exist.
M.H. +7.5 Inv. Elev. 68.6
Lt. Inl. +7.5 Inv. Elev. Exist.

Inl. +1.5 Inv. Elev. 70.8
M.H. +1.5 Inv. Elev. 67.8

-2.00% -2.04%

12" X 38' P Pipe

15" X 332' P Pipe

6' Below ℄ Grade

Elev. 67.70
200' V.C.

Inl. +1.39 Inv. Elev. 61.8

Rt. Inl. Inv. Elev. 61.9
Rt. M.H. Inv. Elev. 61.0

M.H. +9.2 Inv. Elev. 62.8
Inl. +9.2 Inv. Elev. 68.5

-1.30% -1.28%

+20

15" X 40' P Pipe

10 11 12 13 14 15 16

School Bldg.

Approx. location of buried 2400V. primary & telephone lines - 4" conduit - approx. 3' deep Lowered Approx. 3' Must be protected at all times.

House

R.O.W.

Franks Bldg.

R.O.W.

N 80° 55' W 2137.20' Main Street ℄

R.O.W.

3rd Ave. ℄

P.P.

Young's Office Bldg.

Moose Horn

U.S. Customs

House

R.O.W.

4th Ave ℄

Old A.R.C. Garage

Lot 1 Lot 2 Lot 3 Lot 4 Lot 5 Lot 6 Lot 1 Lot 2

90 80 70 60

End Pavement, Base 0+40
℄ Sidewalk 0+30

10+95.4 Main St.
0+00 3rd Ave.

End Pavement, Base 0+40
℄ Sidewalk 0+40

Match Existing Grade El. 82.7

-5.46%
-6.8%

+2.0%

+2.0%

+3.94% +5.8%

Elev. 73.4
40' V.C.

Elev. 73.4
40' V.C.

3rd Ave. South

3rd Ave. North

14+70.4 Main St.
0+00 4th Ave.

End Pavement, Base 0+40
℄ Sidewalk 0+37.5

-2.0%

+0.6%
+1.0%

Elev. 66.8
50' V.C.

-0.6%
-1.0%

Match Existing Grade

Elev. 66.2
30' V.C.

4th Ave. North

+40 +40 +50 +50

1 0 1 2 0 1

PLATE 2-PLAN-PROFILE U.P.R.A.R.E. STANDARD
REDFIELD & CORBETT CO., NEW YORK
R & E Co. No. 328-20A
7412

Sta. 10+00 to 16+00 Main St. also 3rd & 4th Ave Profiles

J-4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TO SHE
ALASKA	S-0990(1)	1961	7	2

Construct 5.5' sidewalk & curb and gutter

Slope Easement R.O.W.

Install curb inlet

Future Street

Install 12" X 72' C.M.P.

176.5'

Construct 5.5' sidewalk & curb and gutter

Slope Easement

Install Type I curb cut

Install type I curb cut

R.O.W.

Note: A.C.S. Undergrou
cable to be protected
at all times. Relocation
or adjustment of cable i
needed, will be paid for
under item 10. See belo
for approximate locatio

AS BUILT

Adjust manhole

30' R.O.W.

N 80°55'W 2137.20'

Main Street ℄

5'

5th Ave ℄

Curb Cuts

30' R.O.W.

Install 18" X 386' P.P.Pipe

R.O.W.

Slope Easement

Sta. 18+02.5
Relocate hydrant, Adjust valve box

Grade only 300' North

Install curb inlet

Sta. 18+45.4

Install monument case

R.O.W.

Easement

Install 21" X 316' P.P.Pipe

Construct 5.5' sidewalk & curb and gutter

Install type 2 curb cut

Construct 5.5' sidewalk & curb and gutter

MICROFILMED

BY W. W. Norrad DATE 9-8-66

Int. +15 Inv. Elev. 57.4

Int. +76 Inv. Elev. 55.8

-X.30% -1.29%

12" x 72' C.M.P.

6' Below ℄ Grade

18" X 386' P.P. Pipe

21" X 316' P.P. Pipe

80 70 60 50

16 17 18 19 20 21

Note: From Sta. 18+00 to Sta. 25+50, shoulders widened 2' total.

125' Lot

undercut to excavate Peat 276 C.Y.

63' Lot

P.P.

R.O.W.

Approximate location A.C.S. Underground Communication Cables.

N 80°55'W 2137.20'

Main Street ℄

A.C.S. Underground Cables.

5th Ave ℄

R.O.W.

Lot 3 Lot 4 Lot 5 Lot 6 Lot 1 Lot 2 Lot 3

18+45.4 Main St. & 0+00 5th Ave.

End pavement & base 0+49 33'Rt

-2.0%

Elev. 60.2 100' V.C.

-3.8 %

-2.1. %

Elev. 54.1 100' V.C.

+3.0% -1.00%

Match Existing Grade Elev. 53.60

5th Ave. North

70 60 50

0 1 2 3

PLATE 2 - PLAN-PROFILE U.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E Co. No. 348-20A
7412

Sta. 16+00 to 21+00 Main St. & 5th Ave Profile

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	8	26

Install 12"X42' C.M.P. (41')
Install Type I curb cut
Const. 5.5 S.W.
Future Street
Install curb inlet
Sta. 22+20.4 (9)
Install monument case
Const. 5.5' Sidewalk & Curb & Gutter
R.O.W.
P.C. Sta. 24+19.33
Install Curb Inlet
Install 12"x42' C.M.P. (40')
Install 12"x18' C.M.P. Outlet (15')
Existing Pavement to be used
Pavement Transition
End of Project 27+50.00
Adjust manhole
5'
0+40
N 80°55'W 2137.20'
Main Street ℄
30'
6th Ave. ℄
Curb cut
21" P. Pipe
Const. 5.5' S.W.
18" x 323' C.M.P.
Sta. 21+78.6 Relocate hydrant, Adjust valve box
Slope Easement
Grade only 375' North
Install field inlet
Install 24" x 160' C.M.P. Free outfall
Install 21" x 52' P. Pipe
Slope Easement
Const. 5.5' Sidewalk & Curb & Gutter
R.O.W.
Sta. 25+62.82
Δ = 10°38'
D = 2°10.4' Lt.
T = 245.38'
L = 489.25'
Install Curb Inlet
Trans. to Existing Width See sheet 9 for Tyical Section
Install curb inlet

AS BUILT

MICROFILMED
BY K. W. Wilson DATE 4-5-00

Elev. 56.00 200' V.C.
-1.30% -1.25%
6' Below ℄ Grade
21" X 52' P. Pipe (51.1)
Rt. Inlet + 88.6 Invert Elev. 51.7
Lt. Inlet + 88.6 Invert Elev. 52.3
+80
Rt. Inlet + 38 Invert Elev. 52.4 (40)
-5.00% -4.80%
18" x 323' C.M.P.
Elev. 44.00 200' V.C.
Sta. 25+62.82 End Curb, Gutter & Full width Pav't.
-2.08%
End Project Sta. 27+50.84 = Sta. 20+85.70 Ahd.
Transition to existing width
100'

70
60
50
40

21 22 23 24 25 26

P.P.P.
R.O.W.
P.C. Sta. 24+19.33
Sta. 25+62.82 City
Existing Oiled Highway
N 80°55'W 2137.20'
Main Street ℄
Approximate location A.C.S. underground cable.
6th Ave. ℄
Lot 5
Lot 1
Lot 2
Lot 3
Lot 4

Sta. 22+20.4 Main St. 0+00 6th Ave.
End pavement, base & Sidewalk 0+40
Elev. 54.5 30' V.C.
Elev. 53.9 50' V.C.
Elev. 53.3 200' V.C.
-2.0%
-0.7%
-2.00%
-2.0%
+1.00%
+40
+50
+80
+50
+75
6th Ave. North

70
60
50
30

0 1 2 3 4

PLATE 2 PLAN-PROFILE D.P.R. & N.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E Co. No. 348-20A

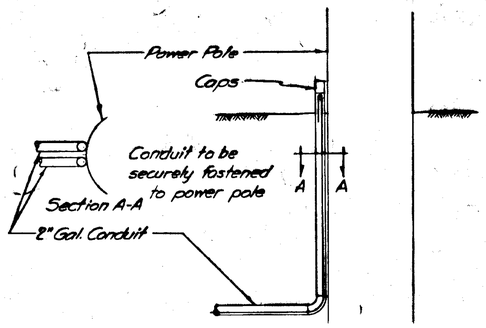
Sta 21+00 to End of Project Main St & 6th Ave Profile

J-4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	9	26

AS BUILT

STREET LIGHTING PLANS DETAILS & RETAINING WALL DETAIL



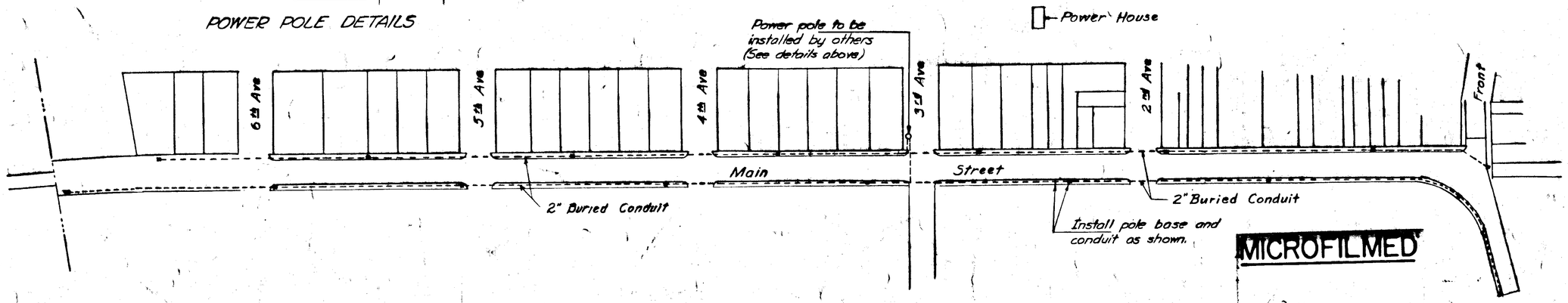
POWER POLE DETAILS

SUMMARY OF EARTHWORK

Station Limits	Unclassified Exc. Cu. Yds.	Borrow Exc, Case 2 Cu. Yds.	Filter Blanket Cu. Yds.
"0" 0+00 to "0" 3+18.12	3586	1262	303
"0" 3+18.12 to 10+50	5026	3364	816
10+50 to 24+00	12,080	5801	1433
24+00 to 25+62.8	793	700	174
2nd. Ave. North	437	279	
3rd. Ave. North	512	557	
3rd. Ave. South	7	0	
4th Ave. North	119	140	
5th Ave. North	244	209	
6th Ave North	786	383	
Front Street	468	107	24

LOCATION OF CURB STOP BOXES

Station	Left	Right	Size
"0" 2+90		28'	2"
3+38	25'		4½"
"0" 3+51.31 P.O.T = 2+82.13 P.T			
2+97		28'	2"
3+48		28'	2"
3+65	25'		2"
4+06		27'	2"
4+37	25'		2"
4+47		28'	2"
4+76		27'	2"
5+69		27'	2"
5+84		27'	2"
6+46		27'	2"
8+10		28'	2"
8+33		28'	2"
8+92		28'	2"
9+35		28'	2"
9+84		28'	2"
10+32		28'	2"
10+35	28'		2"
11+52		28'	2"
11+92		28'	2"
12+24	28'		2"
12+29		28'	2"
13+13		28'	2"
13+58		28'	2"
15+23	28'		2"
15+25		28'	2"
15+85		28'	2"
18+77	28'		2"
20+44		28'	2"
21+40		28'	2"



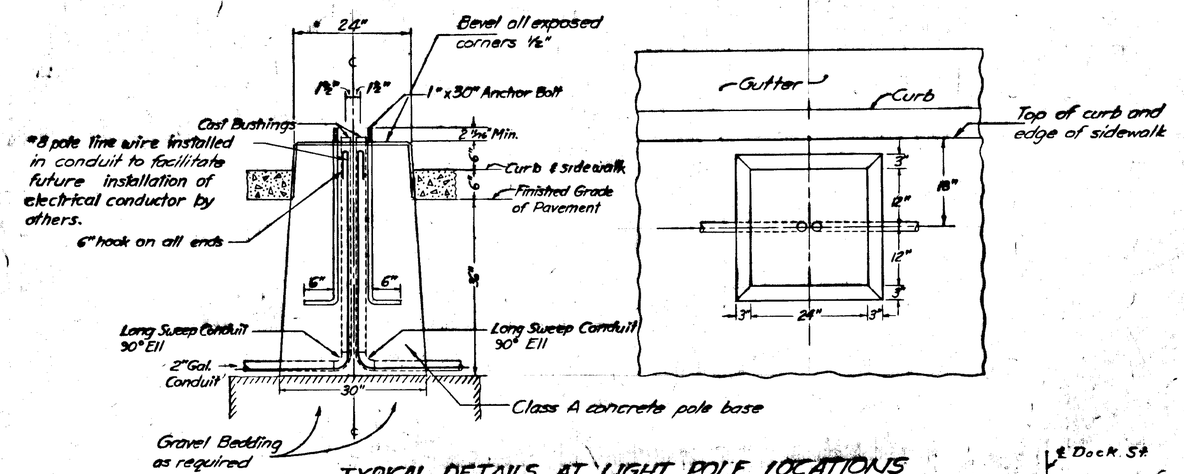
MICROFILMED

BY W. Wilhelm DATE 9-8-06

Plan for Mercury Vapor Ovalite Luminaire

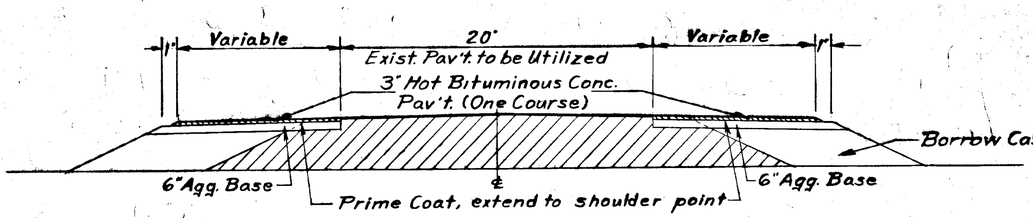
LIGHT POLE LOCATIONS

Left	Right
0+00	"0" 2+25
"G" 1+86	3+20
5+00	6+90
8+50	10+00
11+90	13+40
15+30	16+90
18+70	20+40
21+90	23+80
25+45	



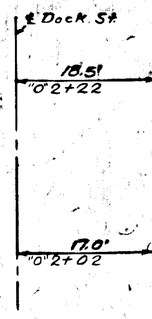
TYPICAL DETAILS AT LIGHT POLE LOCATIONS

NOTE: All conduit to be 2" Rigid Screwed Galvanized-Sherardized. Anchor bolt template to be furnished by the Engineer.

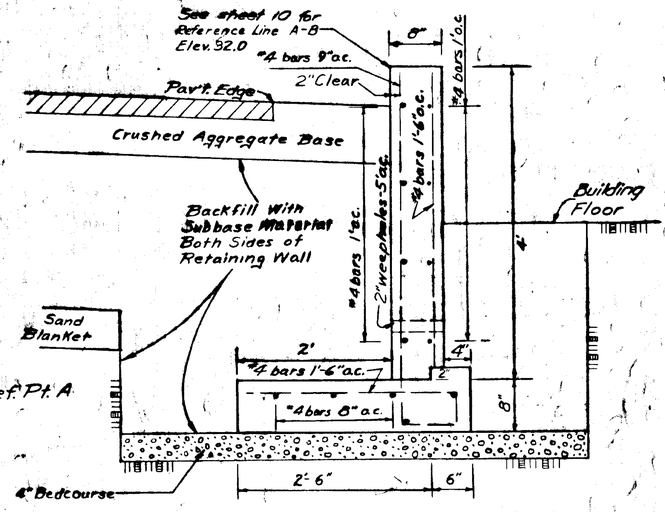


Sta. 25+62.82 to Sta. 27+50, Transition to 20' Width

TYPICAL STREET SECTION



RETAINING WALL LOCATION



Note: Bed course material shall meet the requirements of subbase

Retaining Wall
Sta. 0+02 to Sta. 2+22

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	10	26

MICROFILMED AS BUILT

BY V. Withrow DATE 4-8-06

Note: 1. for intersection details see sheets 3 & 4.
2. for Curb Inlet & Manhole details see sheet S 10.

Guardrail & Retaining Wall Location Details in front of Harbor Bar

* See Sheet 9 for Retaining Wall Detail

"O" 2+39.5±	Install Manhole	22'	Rt.
"O" 2+52.5±	Install Catch Basin	21.25'	Rt.
"O" 2+77.42	Install Curb Inlet	37.95'	Rt.
"F" 1+05.09	Install Manhole	13'	Rt.

Note: "O" & "G" Lines are Office Revisions.
"G" Line Stations & Elevations are to Gutter at face of Curb.

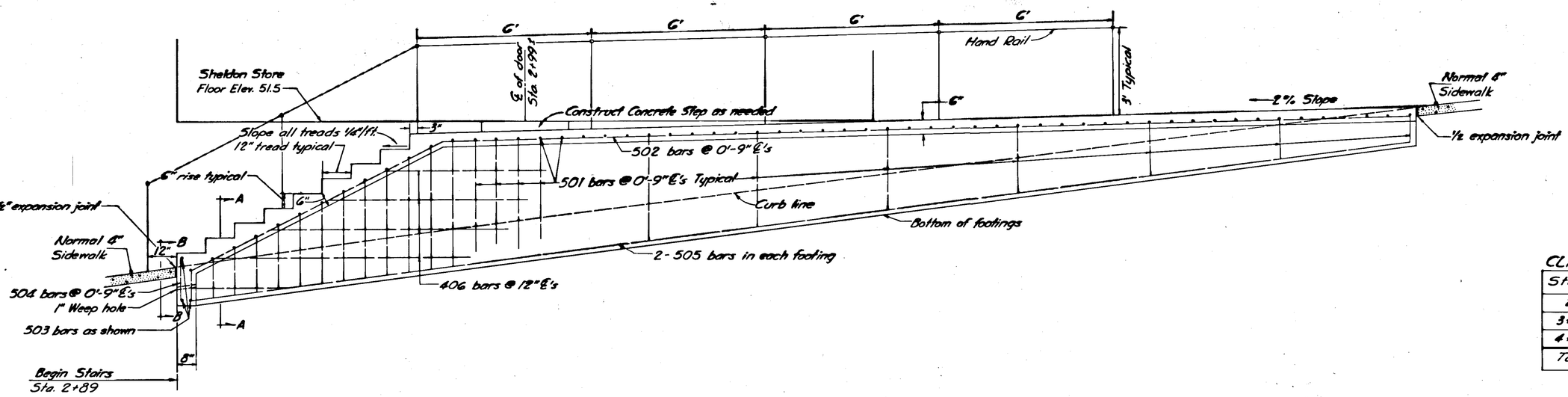
See Sheet 4 for Gutter Profile & Grade.

Intersection Dock St, Main St & Front St.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0990(1)	1961	11	26

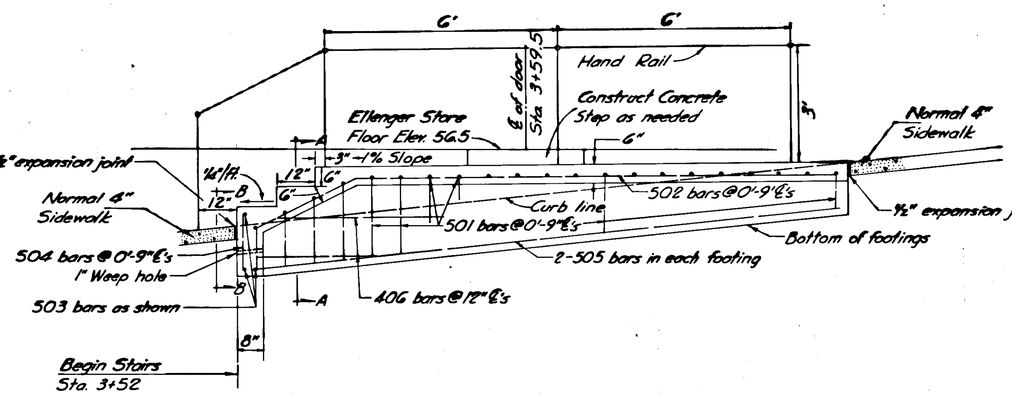
AS BUILT

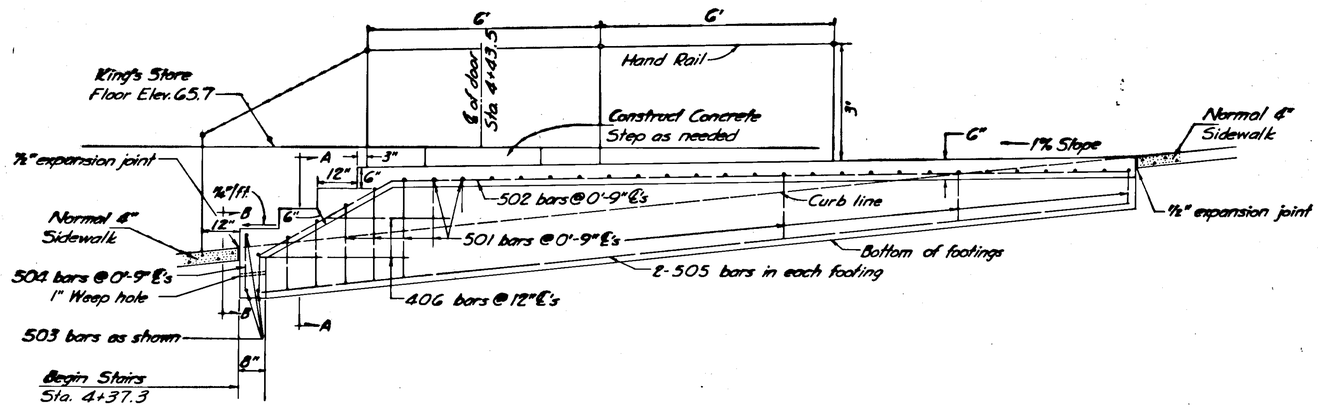
MICROFILMED
BY L. Withrow DATE 9-8-06

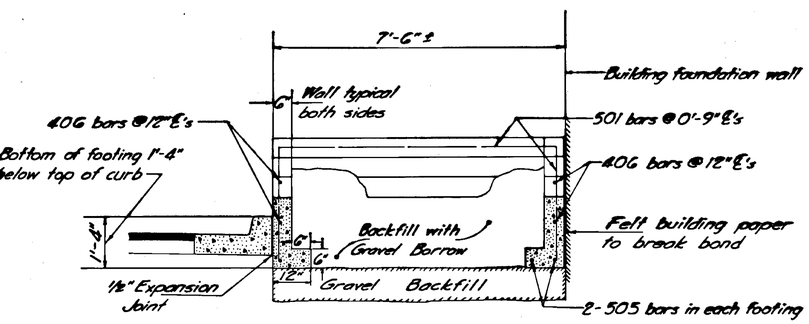


CLASS A CONCRETE

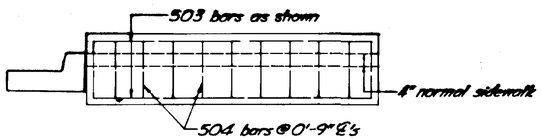
Station	Cubic Yards
2+99	12
3+59.5	4
4+43.5	6
Total	22







SECTION A-A



VIEW B-B

GENERAL NOTES

All concrete shall be Class A air entrained.
All reinforcement to be 2" clear from face of concrete.
All reinforcement bar splices to lap 80 diameters.
All dimensions, stations and elevations shall be varified in the field.
The first figure of each bar number indicates the bar diameter in 1/8's.
One and one half inch diameter wrought iron pipe shall be used for railing and posts. Fittings shall be of the malleable iron adjustable type. Welded joints (ground smooth) may be substituted for the maleable iron adjustable type. Posts shall be set in 2 1/2" galvanized iron pipe sockets and calked or poured with lead. After setting, the railing shall be painted with a primer coat of red lead ready-mixed paint (AASHO M 72) and two field coats of white and tinted ready-mixed paint (AASHO M 70, Type I, Class B).

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	ROUTE	SECTION	YEAR	SHEET NO
ALASKA	0990		1961	12

STATION	DESCRIPTION	453(6) 12" Asbestos-bonded Pipe Culvert Conc. Pipe, Ft.	453(6) 24" Asbestos-bonded Pipe Culvert Conc. Pipe, Ft.	457(1) Reinforced Concrete Box Culvert Conc. Pipe, Ft.	460(2) Concrete End Sections for Pipe Culverts Each	520(6) 12" Bituminous-coated Perforated CMP Under-drain, Lin. Ft.	520(6) 18" Bituminous-coated Perforated CMP Under-drain, Lin. Ft.	520(5) 18" Bituminous-coated Perforated CMP Under-drain, Lin. Ft.	520(5) 21" Bituminous-coated Perforated CMP Under-drain, Lin. Ft.	521(1) Manholes, Each	521(2) Type B Inlets, Each	521(3) Type B Catch Basins, Each	521(10) Adjusting Manholes Valve Boxes and Cleanouts, Each	533(1) Beam-Type Guardrail, Lin. Ft.	REMARKS
- (0+08)	INSTALL 24"x74' CMP SKEW 30° LT. AHD. W/1 END SECTION		74		1										
0 + 00	INSTALL CURB INLET LT.										1				
0 + 09	INSTALL FIELD INLET LT.										1				
"G" 2+15	INSTALL CURB INLET										1				
"F" 0+62.5	INSTALL 24"x86' CMP		86												
"F" 1+05.09	INSTALL MANHOLE RT.									1					
"F" 1+05.09	INSTALL 24"x36' CMP RT. W/1 END SECTION		36		1										
"0" 2+03.9 - "F" 0+06.8	STEEL BEAM GUARD RAIL WITH 6"x6" WOOD POSTS													25	
"0"2+26	ADJUST MANHOLE RT.									1					
"0"2+28	ADJUST VALVE BOX LT.												1		
"0" 2+33.5	INSTALL MANHOLE RT.									1					
"0" 2+39.5	INSTALL 24"x12' CMP		12												
"0"2+53.1	INSTALL CURB INLET CATCH BASIN RT. (2' SUMP)											1			
"0" 2+53.9	INSTALL 12"x68' CMP	68													
3 + 90	ADJUST MANHOLE RT.												1		
4+58	INSTALL CURB INLETS LT. & RT.										2				
	INSTALL 12" x 42' C. M. P.	42													
4 + 84.6	ADJUST VALVE BOX RT.												1		
6 + 00	INSTALL CURB INLET RT.										1				
6 + 55	ADJUST CLEANOUT RT.												1		

J-4

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0990		1961	13	26

STATION	DESCRIPTION	453(5C) 12" Asbestos-Bonded Paved Invert CMP, Lin. Ft.	453(5G) 24" Asbestos-Bonded Paved Invert CMP, Lin. Ft.	457(1) Remove and Dispose Existing Pipe Culvert, Lin. Ft.	460(2G) Metal End Sections for 24" Pipe Culverts, Each	520(5C) 12" Bituminous-Coated Perforated CMP Underdrain, Lin. Ft.	520(5D) 15" Bituminous-Coated Perforated CMP Underdrain, Lin. Ft.	520(5E) 18" Bituminous-Coated Perforated CMP Underdrain, Lin. Ft.	520(5F) 21" Bituminous-Coated Perforated CMP Underdrain, Lin. Ft.	521(1) Manholes, Each	521(2) Inlets, Each Type B	521(3) Type B Catch Basins, Each	521(10) Adjusting Manholes Valve Boxes and Cleanouts, Each	583(1) Beam-Type Guardrail, Lin. Ft.	REMARKS
6+99	INSTALL CURB INLET RT. INSTALL MANHOLE RT.									1	1				
7+10	ADJUST VALVE BOX LT.												1		
7+14	ADJUST VALVE BOX RT.												1		
7+35	ADJUST MANHOLE LT.												1		
7+41	INSTALL MANHOLE RT.									1					
	INSTALL MANHOLE AT 2ND & DALTON ST.									1					
	INSTALL CURB INLETS LT. & RT.										2				
	INSTALL 24" x 48' CMP		48												
	INSTALL 24" x 20' CMP OUTFALL		20												
	REMOVE & DISPOSE 3 - 8" x 80' DRAIN PIPES			240											
7+63.4	ADJUST VALVE BOX RT.												1		
8+98	INSTALL CURB INLET RT.										1				
10+5 .1	ADJUST VALVE BOX RT.												1		
10+75	INSTALL MANHOLE RT.									1					
	INSTALL CURB INLETS LT. & RT.										2				
	REMOVE & DISPOSE 18" x 65' C.M.P.			65											
	INSTALL 24" x 52' C.M.P. & 24" x 8' C.M.P.		60												
11+04	ADJUST MANHOLE LT.												1		
11+15	INSTALL MANHOLE RT.									1					
	INSTALL CURB INLET RT.										1				
14+27.5	ADJUST VALVE BOX RT.												1		
14+39	INSTALL CURB INLET LT. INSTALL 12"x68' C.M.P.68										1				
14+50	INSTALL MANHOLE RT.									1					
	INSTALL CURB INLET RT.										1				
14+80	ADJUST MANHOLE LT.												1		
14+92	INSTALL MANHOLE RT.									1					
	INSTALL CURB INLET RT.										1				
18+02.5	ADJUST VALVE BOX RT.												1		
18+15	INSTALL CURB INLET LT.										1				

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LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	ROUTE	SECTION	YEAR	PROJECT NO.	TOTAL SHEETS
ALASKA	0990		1961	14	26

STATION	DESCRIPTION	453(5C) 12" Asbestos-bonded Paved Invert CSP, Lin. Ft.	453(5C) 24" Asbestos-bonded Paved Invert CSP, Lin. Ft.	457(1) Reserve and Dismantle Existing Type Culvert, Lin. Ft.	460(2) Metal End Sections for 24" Pipe Culverts, Each	520(5C) 12" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5D) 15" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5D) 18" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5F) 21" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	521(1) Manholes, Each	521(2) Inlets, Each Type B	[illegible]	521(3) Type B Catch Basins, Each	521(10) Adjusting Manholes Valve Boxes and Cleanouts, Each	585(1) Beam-Type Guardrail, Lin. Ft.				REMARKS
18 + 46	INSTALL 12" x 74' CMP	74																	
18 + 55	ADJUST MANHOLE LT.													1					
18 + 76	INSTALL CURB INLET RT.										1								
21 + 78.6	ADJUST VALVE BOX RT.													1					
21 + 88	INSTALL CURB INLETS RT. & LT.										2								
	INSTALL 12" x 42' CMP	42																	
22 + 22	ADJUST MANHOLE LT.													1					
22 + 40	INSTALL FIELD INLET RT.										1								
	INSTALL 24" x 160' CMP		160																
25+58	INSTALL CURB INLETS RT. & LT.										2								
	INSTALL 12"x42' CMP & 12"x10' CMP	52																	
	OUTLET LT.																		

J-a

LIST OF CULVERTS AND MISCELLANEOUS WORK

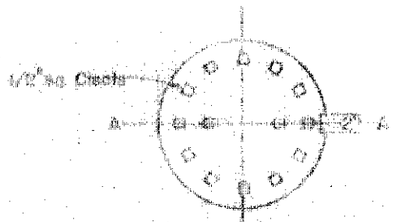
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0990		1961	15	26

STATION	DESCRIPTION	453(5C) 12" Asbestos-bonded Paved Invert CMP, Lin. Ft.	453(5D) 12" Asbestos-bonded Paved Invert CMP, Lin. Ft.	457(1) Remove and Replace Existing Pipe Culvert, Lin. Ft.	460(2) Metal End Sections for 24" Pipe Culverts, Each	520(5C) 12" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5D) 15" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5E) 18" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	520(5F) 21" Bituminous-coated Perforated CMP Underdrain, Lin. Ft.	521(1) Manholes, Each	521(2) Inlets, Type B, Each		521(3) Type B Catch Basins, Each	521(10) Adjusting Manholes Valve Boxes and Cleanouts, Each	583(1) Beam-Type Guardrail, Lin. Ft.	REMARKS
	SEE TABLE SHEET 2 FOR DETAIL AT FIRE HYDRANTS															
OVER	ENTIRE PROJECT															
	INSTALL 12" BITUMINOUS-COATED PERFORATED CMP UNDERDRAIN					554										
	INSTALL 15" BITUMINOUS-COATED PERFORATED CMP UNDERDRAIN						534									
	INSTALL 18" BITUMINOUS-COATED PERFORATED CMP UNDERDRAIN							682								
	INSTALL 21" BITUMINOUS-COATED PERFORATED CMP UNDERDRAIN								640							
	TOTALS	346	496	305	2	554	534	682	640	9	23		1	17	25	

J-4

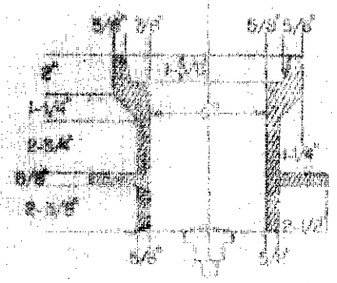
STANDARD BRASS CAP MONUMENT & MONUMENT CASE

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0990	1961	16	26



PLAN VIEW-COVER

SECTION A-A

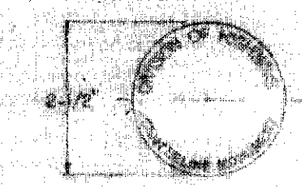


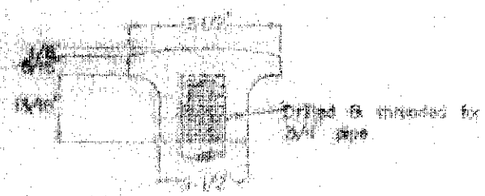
MONUMENT CASE

NOTE:
Where monument cases are to be placed in a bituminous paved or surfaced road, the top of the case shall be the same elevation as the top of the roadway.
Where monument cases are to be placed in a gravel surfaced roadway the top of the case shall be placed 1-0" below the top of the surface of the roadway.

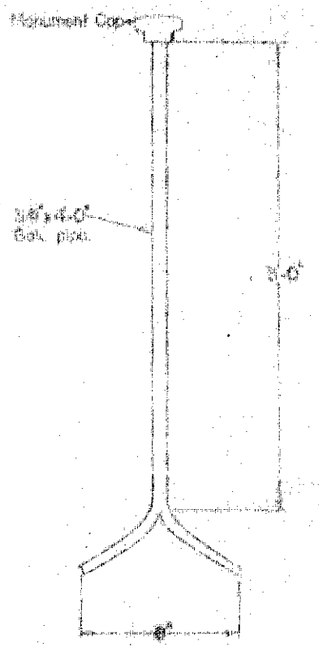
SUMMARY OF BRASS CAP MONUMENTS & MONUMENT CASES

STATION	MON	MON CASE	REMARKS	STATION	MON	MON CASE	REMARKS
2+27.04		1					
7+20.49		1					
10+95.4		1					
14+70.4		1					
18+45.4		1					
22+20.4		1					
TOTAL		6					





MONUMENT CAP



NOTE:
In solid rock, drill 4" ø hole a minimum of 1-0", fill with mortar and set one 3/4"ø pipe the remaining length with an anchor. The top of the monument shall be the same elevation as the bottom of the monument case.

J-4

STATE	ROUTE	SECTION	DATE	SHEET NO.	TOTAL SHEETS
ALASKA	0990		1961	17	26

SUMMARY OF STANDARD SIGNS

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN
1 + 77	17		R-39	YIELD
2 + 00		15	R-1	STOP
7 + 46		30	R-1	STOP
10 + 72	30		R-1	STOP
11 + 19		30	R-1	STOP
14 + 94		30	R-1	STOP
18 + 70		30	R-1	STOP
22 + 44		30	R-1	STOP
0 + 32 (FRONT ST.)	17		R-1	STOP

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN

NOTE: DISTANCES AND STATIONS ARE APPROXIMATE ONLY;
EXACT LOCATION TO BE STAKED BY THE ENGINEER