STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA		1	11

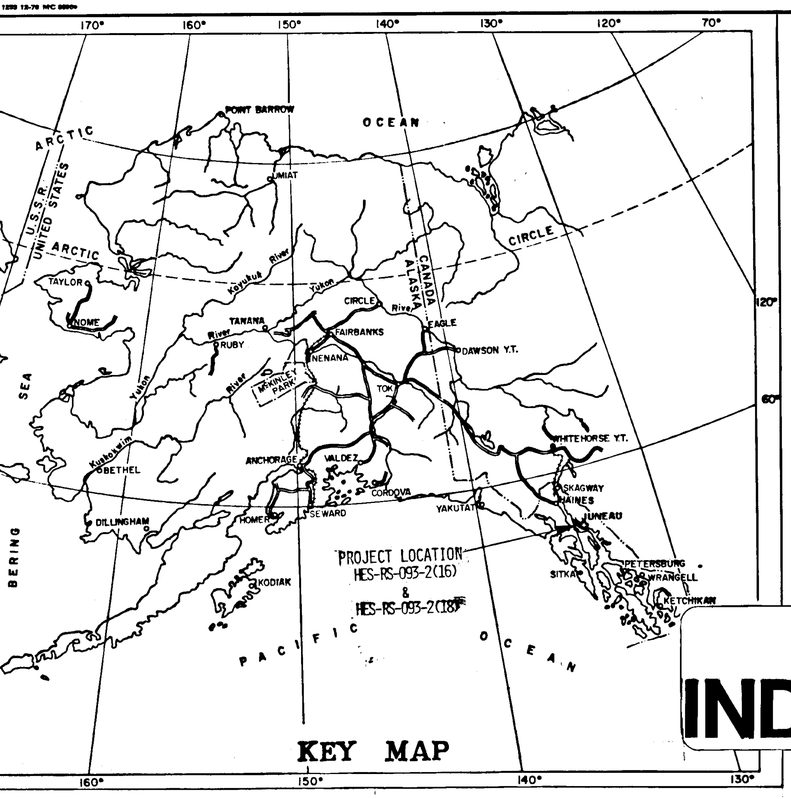
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

GLACIER HIGHWAY SAFETY IMPROVEMENTS
1985

GLACIER HIGHWAY,
INDUSTRIAL BLVD. INTERSECTION
HES-RS-093-2(16) (E-90052)

MENDENHALL PENINSULA ROAD
LANE WIDENING
HES-RS-093-2(18) (E-30112)



KEY MAP

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 - 3	TYPICAL SECTIONS
4	ESTIMATE OF QUANTITIES SUMMARY TABLES
5 - 7	PLAN AND PROFILE SHEETS
8 - 10	SIGNING, STRIPING, RPM, TCP & ILLUMINATION SHEETS
11	DRIVEWAY DETAILS

THE FOLLOWING STANDARD DRAWINGS ARE INCLUDED IN THIS PROJECT

A-1, C-01.01, C-02.00, C-03.01, C-04.00, D-01.00, D-05.01, F-01.01, F-03.01, I-40.00, L-03.00, L-10.00, L-14.00, L-20.00, L-23.00, L-30.00, M-20.01, M-23.00, S-00.00, S-05.00, S-20.00, S-30.01, T-03.01, T-05.00, T-20.00, T-21.00, T-22.00

PROJECT SUMMARY
GLACIER HIGHWAY AT INDUSTRIAL BLVD.

WIDTH OF WIDENING = 0'-6" LT. & RT.
LENGTH OF PROJECT = 732.00' = 0.139 MI.

DESIGN DESIGNATION
GLACIER HIGHWAY

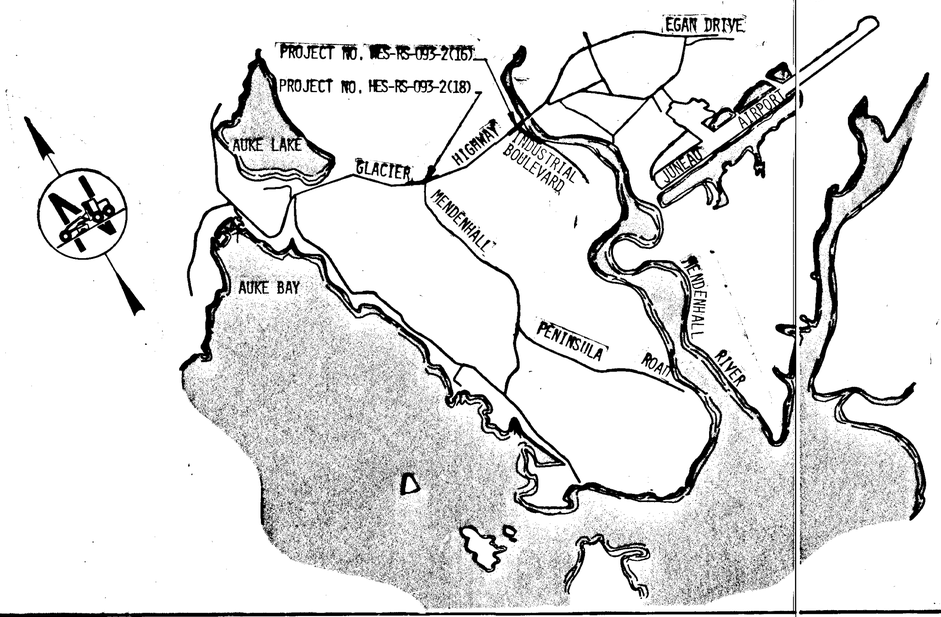
ADT (1983)	=	8,705
ADT (2004)	=	14,264
DHV (13%)	=	1,854
T.	=	10%
T.I.	=	9.5
V	=	50

PROJECT SUMMARY
INDUSTRIAL BLVD.

WIDTH OF PROJECT	=	32' - 44'
LENGTH OF PAVEMENT	=	388.73' = 0.074 MI.
LENGTH OF GRADING	=	438.73' = 0.083 MI.
LENGTH OF PROJECT	=	450.00' = 0.085 MI.
LENGTH OF TEMPORARY CONNECTION	=	50.00'

PROJECT SUMMARY
MENDENHALL PENINSULA ROAD -LANE WIDENING

WIDTH OF WIDENING = 0'-15'
LENGTH OF PROJECT = 850 .00' = 0.161 MI.



"AS-BUILT" PLANS
Contractor: ASSOCIATED SAND & GRAVEL CO., INC.
Proj. Engr.: S. KREUZENSTEIN
Begin: JULY 19, 1985
Completion: SEPT. 27, 1985
(ITEM 660(3)): NOV. 15, 1985

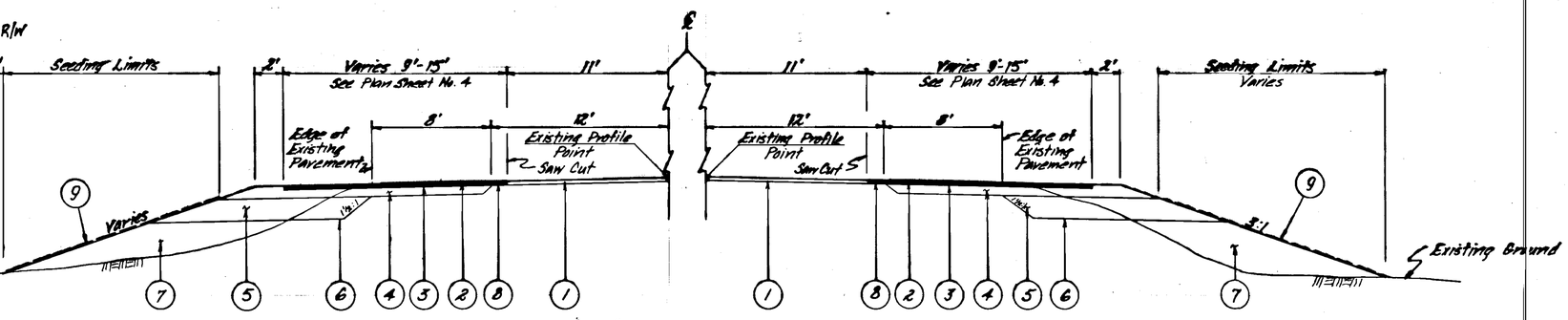
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
APPROVED BY: Wallace K. Wilson — DATE: 4/10/85
Southeast Region Design Engineer

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
APPROVED BY: D.D. Wackenreuter — DATE: 4/10/85
DIRECTOR S.E. Design and Construction

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(16)	1985	2	11

TYPICAL SECTIONS OF IMPROVEMENT

GLACIER HWY./INDUSTRIAL BLVD. INTERSECTION

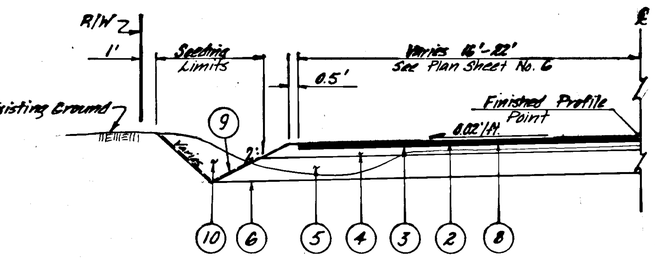


GLACIER HIGHWAY

Sta. "As Blt" 6+80, Lt. to Sta. "As Blt" 13+30, Lt.

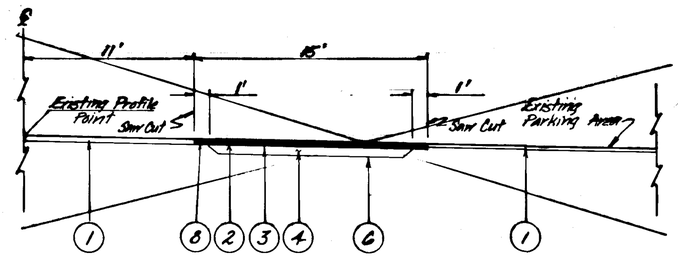
Sta. "As Blt" 8+00, Rt. to Sta. "As Blt" 13+30, Rt.

(+85



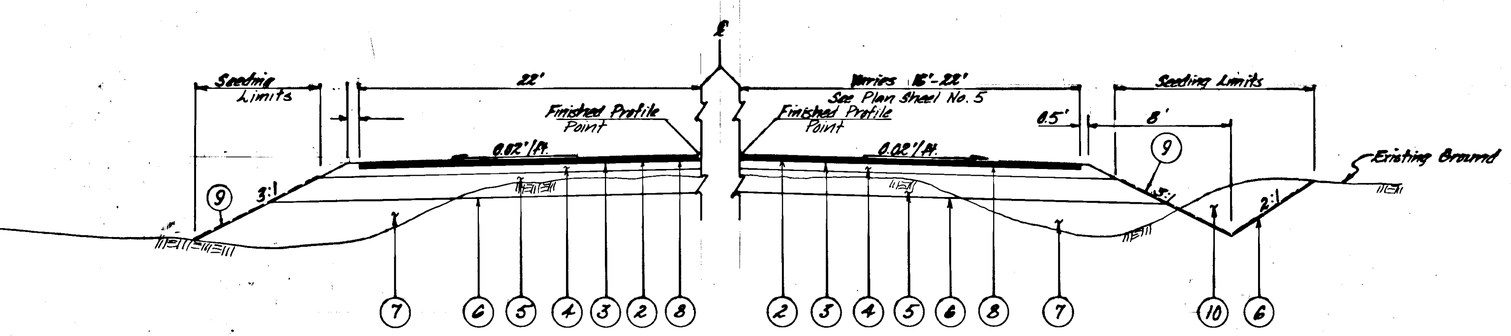
INDUSTRIAL BLVD.

Sta. "0" 11+70, Lt. to Sta. "0" 14+00, Lt.



GLACIER HIGHWAY

Sta. "As Blt" 6+45, Rt. to Sta. "As Blt" 8+00, Rt.



INDUSTRIAL BLVD.

Sta. "0" 10+88, Lt. to Sta. "0" 11+70, Lt.

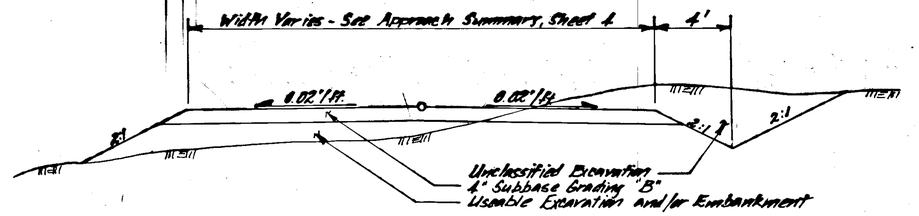
11+11.51

Sta. "0" 10+26, Rt. to Sta. "0" 14+00, Rt.

GENERAL NOTES

HES-RS-093-2 (16) & HES-RS-093-2 (18)

1. Alignments and Grades shown on the Plans are subject to minor revisions.
2. Pipe Conduit lengths and locations are approximate only and are subject to field adjustments.
3. All waste material shall be disposed of outside of the R/W limits at a location selected by the Contractor and approved by the Engineer. Also, the Contractor may be required to obtain a Corp. Permit if he chooses to waste the materials in the waters of the U.S. (i.e. Muskeg)
4. The Contractor will be required to design intersection grades to match existing grades. Existing pavement cross slope grades shall be extended through the shoulder of the new Asphalt.
5. Clearing and Grubbing Limits shall be 10' beyond the slope limits in cut areas and 5' beyond the slope limits in fill areas or to the R/W line, Easement Line or Permit Line as directed by the Engineer.
6. Any Special Ditching required by the Engineer will be minor and will be paid for as Unclassified Excavation under Section 203 and no additional payment will be made therefore.
7. All existing recessed pavement markers within the project limits shall be removed by the Contractor and the holes swabbed with Tack Coat and Patched with Asphalt Concrete. The removal of the recessed pavement markers and the patching of the holes shall be considered incidental to other items of work.
8. All removed asphalt pavement shall be stockpiled in the yard at the intersection of Egan Drive and the Mendenhall Loop Road.
9. The Contractor shall maintain continuous vehicular access to the Emmanuel Baptist Church during the construction of this project.



APPROACH ROAD DETAILS

"A" & "B" Lines

1. Approaches shall be constructed with the same structural section as Industrial Blvd. except that beyond the paving limits the above detail shall be used.
2. All work involved in forming, shaping and construction shall be considered incidental to the Bid Items involved. Materials required shall be paid for at contract bid prices.

STATE OF ALASKA
49th
12 Feb 85
Edna Witcher
No. CE3274
REGISTERED PROFESSIONAL ENGINEER

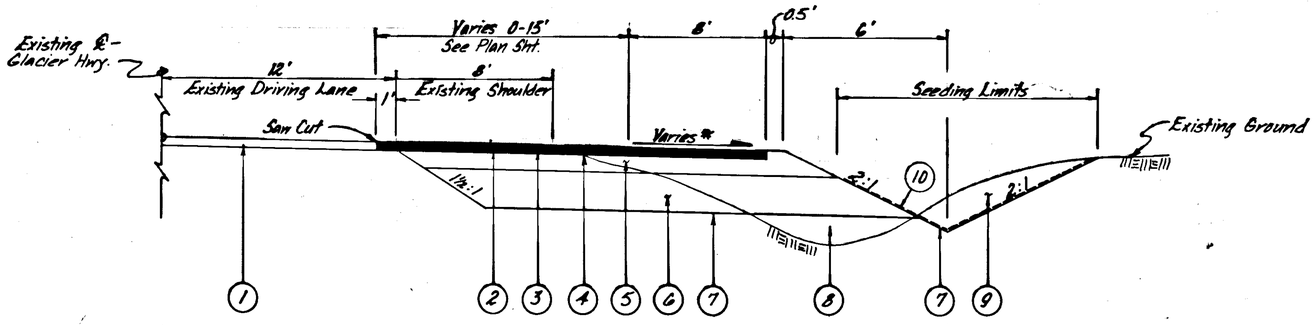
LABELING INDEX

(1)	Existing Asphalt Pavement
(2)	3½" Asphalt Concrete Type II (Two Lifts)
(3)	~~MC-30 Liquid Asphalt for Prime Coat~~ DELETED by E.W.O. 3
(4)	6" Crushed Aggregate Base Course, C-1, D-1 C.O. 1
(5)	18" Subbase Grading "B" "A" C.O. 1
(6)	Limits of Unclassified Excavation
(7)	Embankment and/or Useable Unclassified Excavation
(8)	CSS-1 Asphalt for Tack Coat (Between Lifts)
(9)	~~3" Topsoil and Hydro-seeding~~
(10)	Unclassified Excavation

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(18)	1985	3	11

TYPICAL SECTIONS OF IMPROVEMENT

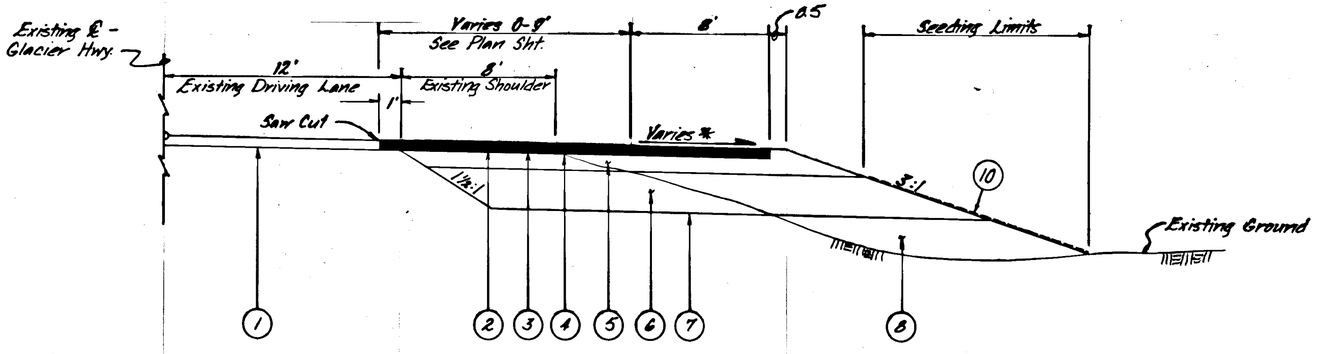
MENDENHALL PENINSULA ROAD LANE WIDENING



TYPICAL CUT SECTION

Sta. "AsBlt" 43+00.00 to Sta. "AsBlt" 50+00.00

* Extend existing Cross Slope



TYPICAL FILL SECTION

Sta. "AsBlt" 41+50.00 to Sta. "AsBlt" 43+00.00

STATE OF ALASKA 49th

Edna Witcher
No. CE3274
REGISTERED PROFESSIONAL ENGINEER

LABELING INDEX

1	Existing Asphalt Pavement
2	3½" Asphalt Concrete Type II (2-Lifts)
3	CSS-1 Asphalt for Tack Coat (Between Lifts)
4	~~MC-30 Liquid Asphalt for Prime Coat.~~ DELETED by E.W.O. 3
5	6" Crushed Aggregate Base Course ~~C-1~~ D-1
6	18" Subbase Grading ~~B~~ "A"
7	Limits of Unclassified Excavation
8	Useable Unclassified Excavation and/or Embankment
9	Unclassified Excavation
10	~~3" Topsoil~~ and Hydro-seeding

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2 (16) & HES-RS-093-2 (18)	1985	4	11

ESTIMATE OF QUANTITIES & SUMMARY TABLES

ESTIMATE OF QUANTITIES

NO.	ITEM	UNIT	GLACIER HWY INDUSTRIAL BLVD HES-RS-093-2(16)	MENDENHALL PENINSULA RD LANE WIDENING HES-RS-093-2(18)	GRAND TOTAL
109(2)	DBE and MBE Adjustments	C.S.	All Required	All Required	All Required
110(2)	Mobilization and Demobilization.	L.S.	All Required	All Required	All Required
111(1)	Temporary Erosion and Pollution Control	C.S.	All Required	All Required	All Required
114(1)	Construction Surveying by the Contractor	L.S.	All Required	All Required	All Required
115(1)	Traffic Maintenance	L.S.	All Required	All Required	All Required
201(2B)	Clearing and Grubbing	L.S.	All Required	All Required	All Required
202(2)	Removal of Pavement	S.Y.	1289.6 ~~1585~~	968.2 ~~868~~	2258.0 ~~2453~~
202(4)	Removal of Culvert Pipe	L.F.	60	~~82~~ 82	142
202(9)	Single Mail Box Installation	Each	0	0 +	0 +
203(3)	Unclassified Excavation	C.Y.	1548.7 ~~1212~~	1899.3 ~~1929~~	3447.9 ~~3141~~
203(8)	Embankment	C.Y.	2622.8 ~~2073~~	397.1	3019.9 ~~2588~~
203(3A)	UNCLASSIFIED EXCAVATION E.W.O. 4	C.Y.V.M.	0	511.8	511.8
301(1)(1A)	Crushed Aggregate Base Course ~~C-1~~ D-1 C.O.1	Ton	1566.1 ~~1486~~	762.9 ~~480~~	2329 ~~1966~~
304(1)(1A)	Subbase Grading "B" C.O.1	Ton	3003	1748.3 ~~1638~~	4751.3 ~~4638~~
401(1)	Asphalt Concrete, Type II	Ton	733.4 ~~755~~	330.1 ~~314~~	1063.5 ~~1069~~
401(2)	Asphalt Cement, AC-5	Ton	46.8 ~~48~~	22.8 ~~19~~	71.6 ~~68~~
402(2)	CSS-1 Asphalt for Tack Coat	L.S.	All Required	All Required	All Required
403(2	MC-30 Liquid Asphalt for Prime Coat E.W.O. 3	Ton	0 ~~3.7~~	0 ~~1.6~~	0 5.3
603(1-18)	18-Inch Corrugated Steel Pipe	L.F.	80	77 ~~8~~	157 ~~88~~
603(1-24)	24-Inch Corrugated Steel Pipe	LF	0	~~58~~	58
607(7)	Reconstructed Fence	L.S.	All Required	0	All Required
628(5)	ADJUST FIRE HYDRANT E.W.O. 7	L.S.	1	N/A	1
615(1)	Standard Signs	S.F.	~~46.25~~	19.0	65.25
615(5)	Guide Markers	Each	10	0	10
618(1)	Seeding	M.S.F.	35.2 ~~88~~	5.1 ~~12.6~~	~~40.3~~ 3
628(11)	Adjustment of Valve Box	Each	2	0	2
628(12)	RECONSTRUCT MANHOLE E.W.O. 5	L.S.	1	N\A	1
660(3)	Highway Lighting System, Complete	L.S.	All Required	All Required	All Required
670(1)	Painted Traffic Markings	L.S.	All Required	All Required	All Required
670(7)	Raised Pavement Markers	Each	37	~~46~~	~~83~~

ILLUMINATION SUMMARY

STATION	OFFSET	ITEM	REMARKS
"AsBlt" 5+98	27' Lt.	J-Box	CUT & RUN EXISTING & NEW CONDUIT INTO J-Box. SPLICE INTO EXISTING CIRCUIT
"AsBlt" 7+91	33' Lt.	J-Box	
"AsBlt" 8+13	32' Rt.	Electrolier	Slip Base with Footing & 12' mast Arm
"AsBlt" 9+58	39' Lt.	J-Box	
"AsBlt" 9+58	30' Rt.	J-Box	
"AsBlt" 9+62	31 ~~39~~' Lt.	Electrolier	Slip Base with Footing & 12' Mast Arm
"AsBlt" 10+85	35' Rt.	Electrolier	Slip Base with Footing & 12' Mast Arm
"AsBlt" 13+45	35' Rt.	Electrolier	Slip Base with Footing & 12' Mast Arm
"AsBlt" 13+50	32' Rt.	J-Box	
"AsBlt" 15+45	24' Lt.	Electrolier	Slip Base with Footing & 10' Mast Arm
"AsBlt" 15+52	35' Rt.	J-Box	
"AsBlt" 15+52	22' Lt.	J-Box	
"AsBlt" 15+83	72' Lt.	Load Center	See Illumination Notes, Sheet 10
"AsBlt" 16+80	34' Rt.	J-Box	
"AsBlt" 16+85	37' Rt.	Electrolier	Slip Base with Footing & 12' Mast Arm

APPROACH SUMMARY

STATION	WIDTH	RADIUS	REMARKS
"AsBlt" 8+39, Rt.	14'	15'	
"O" 11+79, Rt.	14'	10'	
"O" 12+75, Lt.	22'	15'	Match Existing Pavement
4L+ 31 Mt.	20'		
"AsBlt" 16+21, Rt.	24'	—	20' R. Lt., 50' R. Rt.

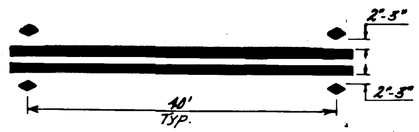
SIGNING SCHEDULE

NO.	STATION	OFFSET LT.	OFFSET RT.	CODE	LEGEND	SIGN PANEL SIZE	SIGN PANEL AREA S.F.	POST No. of Posts	POST TYPE	POST SIZE	POST LENGTH	POST EMBED.	FACING TRAFFIC	REMARKS
1	"AsBlt" 6+00		22'	M10-2	10	6"x12"	0.5	1	PST	2"x2"	11'	3'	WB	
2	"AsBlt" 6+00		22'	M10-2	10	6"x12"	0.5						EB	Mount on same post as #1
3	"AsBlt" 9+88 8+62		32'	D3-2 (L)	← Industrial Blvd.	18"x112"	14.00	2	PST	2"x2"	12'	3'	WB	Framed, 0.125" thick
4	"AsBlt" 9+62	~~35~~ 31		R7-101	No Parking Any Time	12"x18"	1.50						EB	Mount on Electrolier Pole
5	"O" 10+62	40'		R1-1	STOP	30"x30"	6.25	1	PST	2"x2"	11'	3'	NB	
6	"O" 10+62	40'		D3-1	Industrial Blvd.	8"x36"	2.00						EB-WB	USE SERIES "B" LETTERS. MOUNT ABOVE #6
7	"AsBlt" 12+50	28'		D3-2(R)	Industrial Blvd. →	18"x112"	14.00	2	PST	2"x2"	12'	3'	EB	Framed, 0.125" thick
8	"AsBlt" 10+85		33'	R2-1	SPEED LIMIT 50	30"x36"	7.50	1	PST	2"x2"	12'	3'	WB	Mount on Electrolier Pole
9	"AsBlt" 12+00		~~3430~~	D1-2L	← Engineer's Cutoff Rd.	24"x90"	15.00	2	PST	2"x2"	14'	3'	WB	Framed, 0.125" thick
10	"AsBlt" 16+17		17'	R1-1	STOP	24"x24"	4.00	1	PST	2"x2"	12'	3'	SB	

BASIS OF ESTIMATE

NO.	ITEM	FACTOR
301(1)(1A)	Crushed Aggregate Base Course D-1	1.96 Tons/Cu. Yd.
304(1)(1A)	Subbase, Grading "B"	1.90 Tons/Cu. Yd.
401(1)	Asphalt Concrete, Type II	~~114.4~~ 114.0 lbs/S.Y.-Inch
401(2)	AC-5, Asphalt Cement	6% of Item 401(1).
402(1)	CSS-1, Asphalt for Tack Coat	0.04 Gal/S.Y.-(Residual), 240 Gal/Ton Application Rate = 0.10 Gal./S.Y.
403(2)	MC-30 Liquid Asphalt for Prime Coat	0.25 Gal./S.Y., 256 Gal./Ton.

TYPICAL RPM PLACEMENT DETAIL



CULVERT SUMMARY

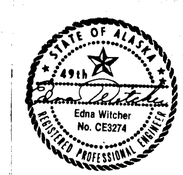
STATION	PIPE LENGTH 18"	24"	36"	REMARKS
"O" 11+79.3 Rt.	36'			
"O" 12+75.25 Lt.	44'			
AsBlt" 44+63.35 Rt.		8'		Extend existing pipe
"AsBlt" 16+21.54 Rt.		50'		
"C" 12+28	37'			
"AsBlt" 42+90, 36 Rt.	40'			

CULVERT REMOVAL SUMMARY

STATION	LENGTH	STATION	LENGTH
"O" 11+47.22' Rt.	20'	AsBlt 44+84.32' Rt.	40'
"O" 11+79.25' Lt.	40'		
"AsBlt" 44+37.32' Rt.	42'		

RECONSTRUCTED FENCE SUMMARY

STATION TO STATION	LENGTH	REMARKS
"AsBlt" 8+40, Lt.	—	Chain existing gates shut
"O" 10+77 to "O" 12+00 Lt.	125'	Remove existing chain-link fabric, posts and gate and install new posts and chain link fabric. See Sheet 6.
"O" 12+62 to "O" 12+86, Lt.	24'	Remove existing chain-link fabric and posts. Install new gate posts and salvaged gate swings. See Sht. 6



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(16)	1985	5	11

PLAN-GLACIER HWY./INDUSTRIAL BLVD. INTERSECTION

"AsBlt" 8+39.37' Rt, Remove and save existing sign and chain, and remove & dispose existing 8"x8" posts. At 44' Rt, Install new 8"x8" posts centered about the approach & and at 16' C.C. Installed height of posts shall be 4'0". Install salvaged sign and chains on new posts. All work and materials shall be considered incidental to Item 607(7), Reconstructed Fence.

"A" 0+70.00 Match Existing

"A" 0+42.00 Paving Limits

R/W

Parking Area

"AsBlt" 10+35.14 P.O.T. = "0" 10+00.00 P.O.T.

"AsBlt" 10+32.07 P.O.T. = "IB" 0+00.00 P.O.T.

Edge of Pavement

Saw Cut

"AsBlt" 7+99.32' Rt, Remove 12'± of existing guardrail. All work involved shall be considered incidental to Item 607(7) Reconstructed Fence.

"AsBlt" 6+85.00 22' Rt, Begin Rt Lane Widening

Pavement Not Removed

"AsBlt" 11+30

Match Line

11~ 10~ BLACIER HIGHWAY 9~ 11' 11' 9~ N 76° 34' 40" W 7~ 6~

"AsBlt" 8+39.00 P.O.T. = "A" 0+00.00 P.O.T.

"AsBlt" 11+29.25 30' Lt, Begin Taper 120' R

"AsBlt" 10+97.25 32' Lt.

"AsBlt" 9+84.5 32' Lt.

"AsBlt" 9+27.04 26' Lt. 120' R

"AsBlt" 9+00.00 26' Lt. End Taper

"AsBlt" 6+80.00 18' Lt. Begin Lt. Lane Widening

"AsBlt" 5+98.00 BEGIN GLACIER HWY. IMPROVEMENTS

Edge of Pavement

M.H.

Remove existing ... ind fill ...vement (See Traffic Control Note #7, Sheet #9)

Ditch to drain

R/W

Existing 36" Pipe Conduit to remain in Place

Drainage Easement

Drainage Easement

"AsBlt" 8+40, Lt., Permanently chain shut existing gates. All work and materials involved shall be payed for under Item 607(7), Reconstructed Fence.

"D" 10+40, 5' Rt., Adjust Valve Box

"D" 10+45, 7' Rt., Adjust Valve Box

Indicates New Pavement Construction under this Contract

R/W

"AsBlt" 13+30.00, 20' Rt. End Lane Widening, Rt.

Edge of Pavement

14~ 13~ Saw Cut 12~

Saw Cut

Edge of Pavement

"AsBlt" 13+30.00, 20' Rt. End Lane Widening, Lt.

"AsBlt" 13+30.00 END GLACIER HWY. IMPROVEMENTS

Existing "Horse Crossing" Sign to remain in place

"AsBlt" 11+30 Match Line

R/W

HORIZONTAL CONTROL

Horizontal Control for this project was the "AsBlt" & for project F-095-2(8), Brotherhood Bridge to Auke Bay, the bearing given as N. 76° 34' 40" W.

VERTICAL CONTROL

The basis of Vertical Control for this project was TBM #2 a nail in the top of a R/W post 60' Rt. of Glacier Highway Sta. "L" 20+05, Elev. 25.39.

STATE OF ALASKA 49th

Edna Witcher No. CE3274

REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(16)	1985	6	11

PLAN-GLACIER HWY./INDUSTRIAL BLVD. INTERSECTION

KEUFFEL & ESSER PLATE 1, PLAN-PROFILE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(18)	1985	7	11

PLAN - MENDENHALL PENINSULA ROAD LANE WIDENING

"AsBlt" 44+84, 32' Rt, Remove & Dispose of existing 40" Pipe Conduit.

"AsBlt" 44+37, 32' Rt, Remove & Dispose of existing 42" Pipe Conduit.

"AsBlt" 44+63, 35' Rt, Extend Existing 24" Pipe 8'.

"AsBlt" 44+60, 44' Rt, Remove & Dispose of abandoned utility pole. All work involved shall be considered incidental to Item 201(2B), Clearing and Grubbing.

Construction Permit

℄

R/W

"W" 12+49.00 P.C.

"AsBlt" 41+50.00, 20' Rt. = "W" 10+00.00 P.O.T.

Swampy Acres Access

Edge of Pavement

N 55° 24' 08" W 249.00'

Mailbox

Saw Cut

"AsBlt" 41+50.00, 11' Rt

"AsBlt" 45+75

Match Line

11'

45~

GLACIER

44~

43~

HIGHWAY

11'

42~

N 58° 44' 53" W

"AsBlt" 42+12.42 T.S.

"AsBlt" 45+12.42 S.C.

"W"

R/W

"AsBlt"

Δ : 15° 02' 40"
D : 2° 54' 37" Rt.
T : 260.00'
L : 517.01'
R : 1968.74'

Note: The "W" Line is the new edge of pavement

"AsBlt"

Δ : 21° 17' 00"
D : 4° 00' Rt.
T_s : 419.58'
L_s : 300.00'
Δ_s : 6° 00'
S : 5.5%

"AsBlt" 46+21, 54' Rt, Install 24" x 50' Pipe Conduit.

Indicates New Pavement Construction under this Contract

Construction Permit

Emmanuel Baptist Church Driveway Access. See Sheet 11 for Plan and Profile

HAMILTON ST.

R/W

"W" 18+39.16 P.O.T. = "AsBlt" 50+00.00, 20' Rt.

"W" 17+66.01 P.T.

Edge of Pavement

N 40° 21' 19" W ~ 73.15'

Saw Cut

"AsBlt" 45+75

Match Line

"AsBlt" 50+00.00, 11' Rt

N 37° 27' 53" W

50~

GLACIER

11'

49~

49~

HIGHWAY

47~

11'

46~

"W" 15+09.00 P.I.

"AsBlt" 50+44.50 S.T.

"AsBlt" 47+44.50 C.S.

"AsBlt" 46+32.00 P.I.

MENDENHALL PENINSULA ROAD

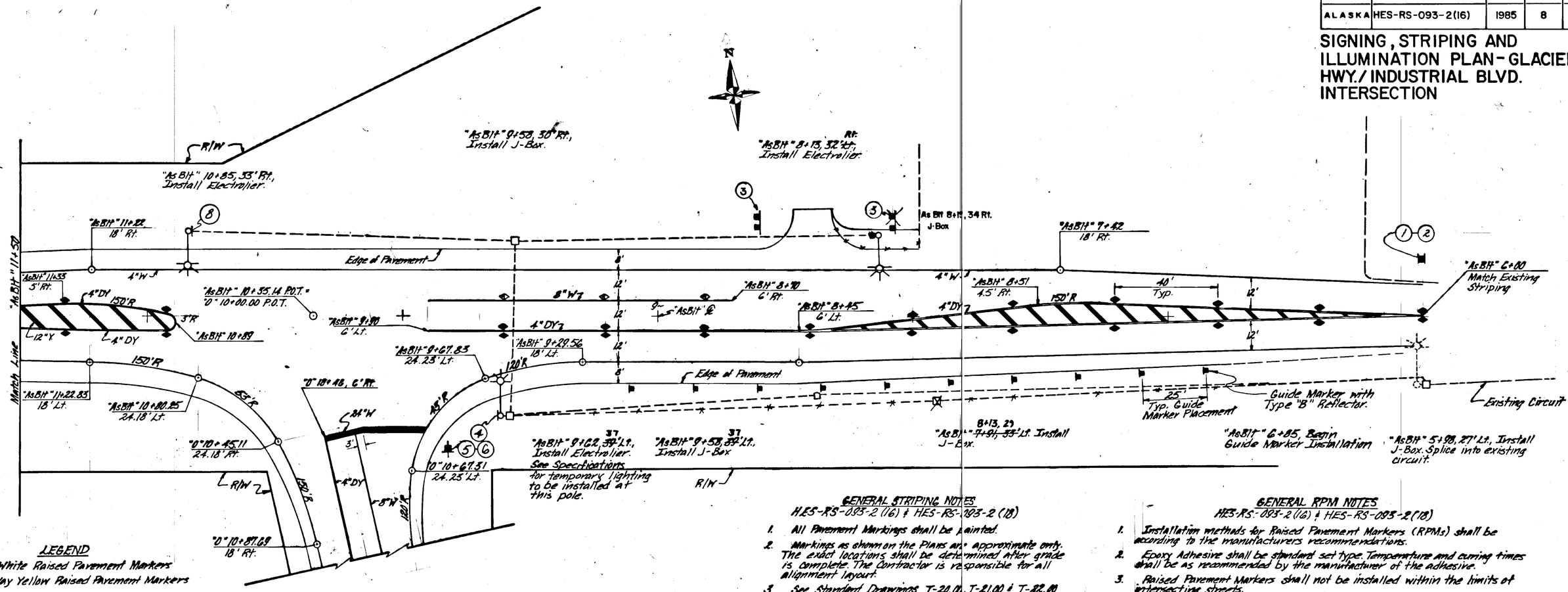
R/W

Note: The existing luminaire located at "AsBlt" 46+70, 38' Lt, shall remain in place for temporary lighting until the new lighting system is complete.

STATE OF ALASKA
49th
Edna Witcher
No. CE3274
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(16)	1985	8	11

SIGNING, STRIPING AND ILLUMINATION PLAN - GLACIER HWY./INDUSTRIAL BLVD. INTERSECTION



LEGEND

- Red-White Raised Pavement Markers
- Two-Way Yellow Raised Pavement Markers

GENERAL STRIPING NOTES

HES-RS-093-2(16) & HES-RS-093-2(18)

1. All Pavement Markings shall be painted.
2. Markings as shown on the Plans are approximate only. The exact locations shall be determined after grade is complete. The Contractor is responsible for all alignment layout.
3. See Standard Drawings T-20.00, T-21.00 & T-22.00 for additional striping information.

GENERAL RPM NOTES

HES-RS-093-2(16) & HES-RS-093-2(18)

1. Installation methods for Raised Pavement Markers (RPMs) shall be according to the manufacturers recommendations.
2. Epoxy Adhesive shall be standard set type. Temperature and curing times shall be as recommended by the manufacturer of the adhesive.
3. Raised Pavement Markers shall not be installed within the limits of intersecting streets.
4. If concrete markers are used, the mortar shall be Magnesium Phosphate Set 45 or equivalent.
5. All locations for RPMs shall be approved by the Engineer after staking by the Contractor.

GENERAL SIGNING NOTES

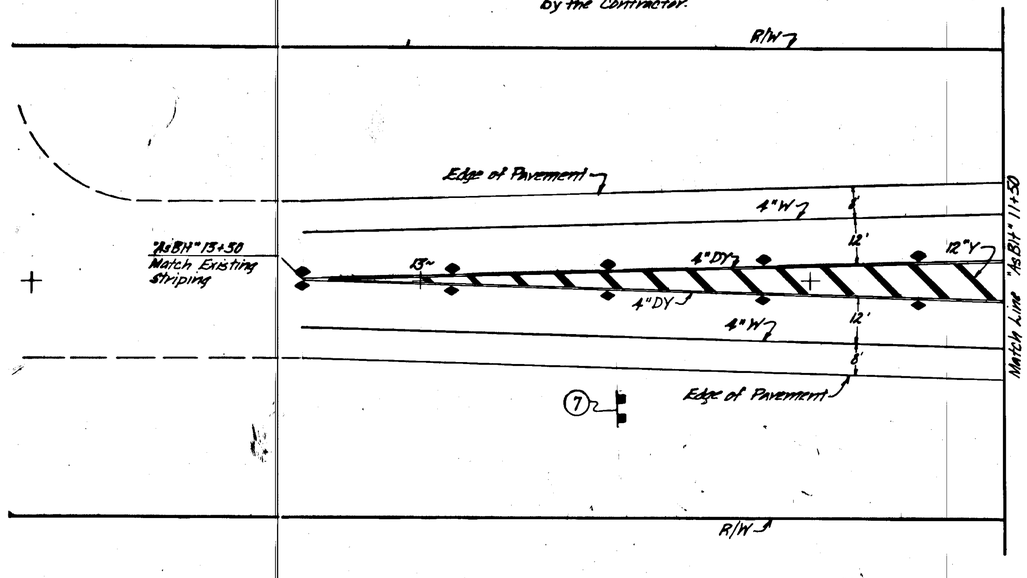
HES-RS-093-2(16) & HES-RS-093-2(18)
(See Signing Schedule, Sht. 3)

1. Sign locations are approximate only and are subject to minor revisions.
2. All existing signs and posts that are removed shall be salvaged and delivered to the Department of Transportation and Public Facilities maintenance yard in Juneau. Payment for this work shall be considered incidental to Item 615(1) Standard Signs and no separate payment will be made therefore.
3. When telescoping, perforated, galvanized, steel posts are specified (See Signing Schedule), the "2" size shall be used above ground and the 2½" size shall be used below ground.
4. All signs shall be unframed and 0.080" thick except as noted in the signing schedule, sheet 4.
5. All D3-1 street name signs have the legend on both sides.
6. Sign post length includes the one foot telescope inside the base. Lengths are for estimating only, actual length may vary.

GENERAL ILLUMINATION NOTES

HES-RS-093-2(16)

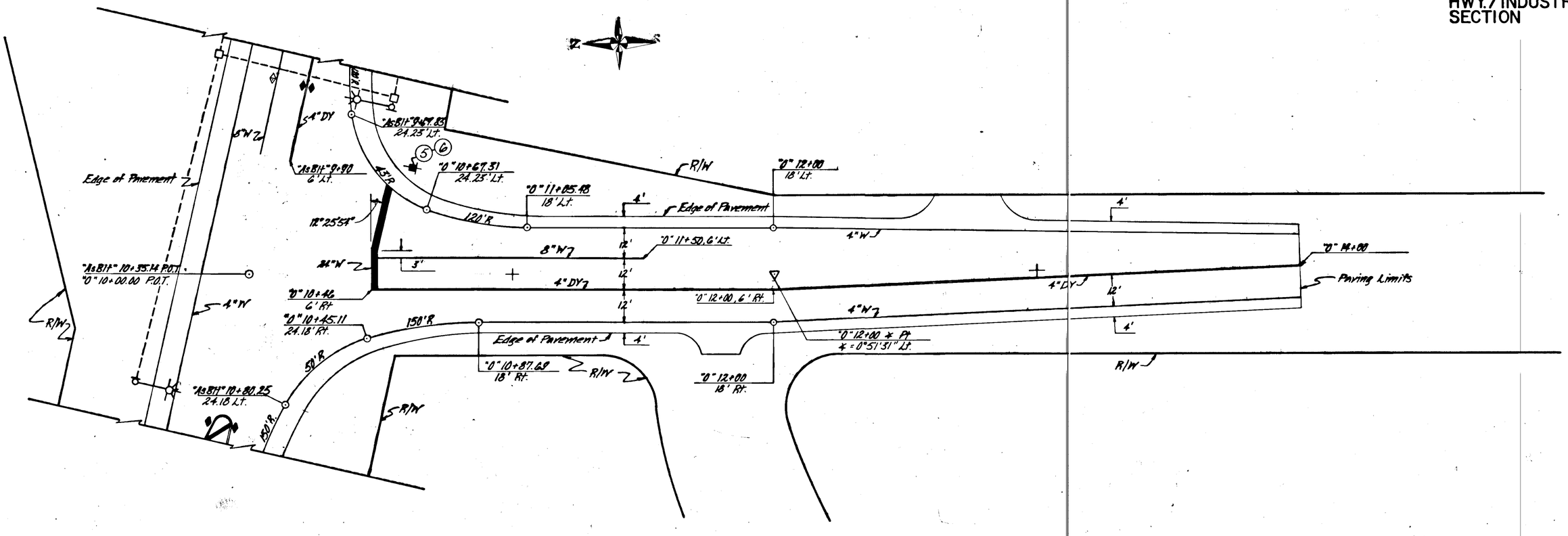
1. All interconnecting conductors shall be #8 A.W.G.
2. Conduit and cable routing as shown on the plans are schematic only and may be modified in the field as necessary to complete the Lighting System. Any modification shall be approved by the Engineer.
3. All wiring shall be in 2" metal conduit.
4. All work and material involved with burial of conduit shall be considered incidental to the Lighting System.
5. All Junction Boxes shall be Type I as per Standard Drawing L-25.00.
6. The location of Junction Boxes which are spliced into existing conductors shall be field verified.
7. All luminaire poles shall have slip bases.
8. All Mast Arms shall be 12' long.
9. Pole and Mast Arm Design shall be able to withstand 120 mph wind.
10. Existing Illuminator System may be disconnected from the power supply during the working period, but will be reinstated for use during the hours of darkness.
11. The Luminaires shall be High Pressure Sodium, 240 V, 400 W, Type III, M.S.C., mounted at 35 feet above the roadway.
12. The Contractor shall not cut the existing paved roadway to install electrical conduit.
13. The existing roadway foreslope rate shall be maintained around electrolier bases as shown in the Standard Drawings. Additional fill material shall be payed for as Item 504(1), Subbase Grading "B".
14. Temporary lighting will be installed at pole location, "As Blt" 9+62, 39' Lt., prior to Sept. 15, 1985. See Specifications.



STATE OF ALASKA 4918 Edna Witcher No. CE3274 REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
ALASKA	HES-RS-093-2(16)	1985	9	11

SIGNING, STRIPING AND ILLUMINATION PLAN - GLACIER HWY./INDUSTRIAL BLVD. INTERSECTION



TRAFFIC CONTROL NOTES

HES-RS-093-2(16) & HES-RS-093-2(18)

1. The Contractor shall submit a Traffic Control Plan (TCP) for approval by the Engineer. The TCP shall conform to the standards set forth by the Manual on Uniform Traffic Control Devices with the Alaska Supplement, Work Zone Traffic Control, the Standard Drawings and the Standard and Special Provisions.
2. Glacier Highway shall be open to two-way traffic weekdays between the hours of 7-9 A.M. and 4-6 P.M.
3. Flagmen shall be provided during other times that two-way traffic cannot be maintained. Any flagging required shall be considered incidental to Item 115(1), Traffic Maintenance.
4. During the hours of darkness, Type C, Steadyburn Yellow lights shall be used to delineate the traveled way for transitions, continuous obstructions or pavement drop-offs. Flashing yellow lights on barracades shall be used to warn of obstructions in the Roadway.
5. The Contractor may close Industrial Blvd. and detour traffic to a side street during the Contractor's normal working hours provided the following conditions are met:
   a.) The Closure and Detour Route Proposals are coordinated with the City and Borough of Juneau before closing Industrial Blvd.
   b.) The Public is advised of the closure and detour through the use of the local news media.
   c.) During the Contractors non-working hours, Industrial Blvd. shall be in a safe, traversable condition, free of rutting or washboarding.
6. The maximum dropoff at the edge of the work area during the Contractor's non-working hours shall be 2-Inches.
7. The driveway located at "As Bilt" 8+40, Lt. shall remain open to traffic until the new driveway located at "0" 12+75, Lt. is operational.
8. The Contractor shall designate one of his employees whose responsibility shall be the installation and maintenance of all required traffic control devices. All traffic control elements shall be maintained 24 hours a day.

STATE OF ALASKA
1918
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No. CE3274
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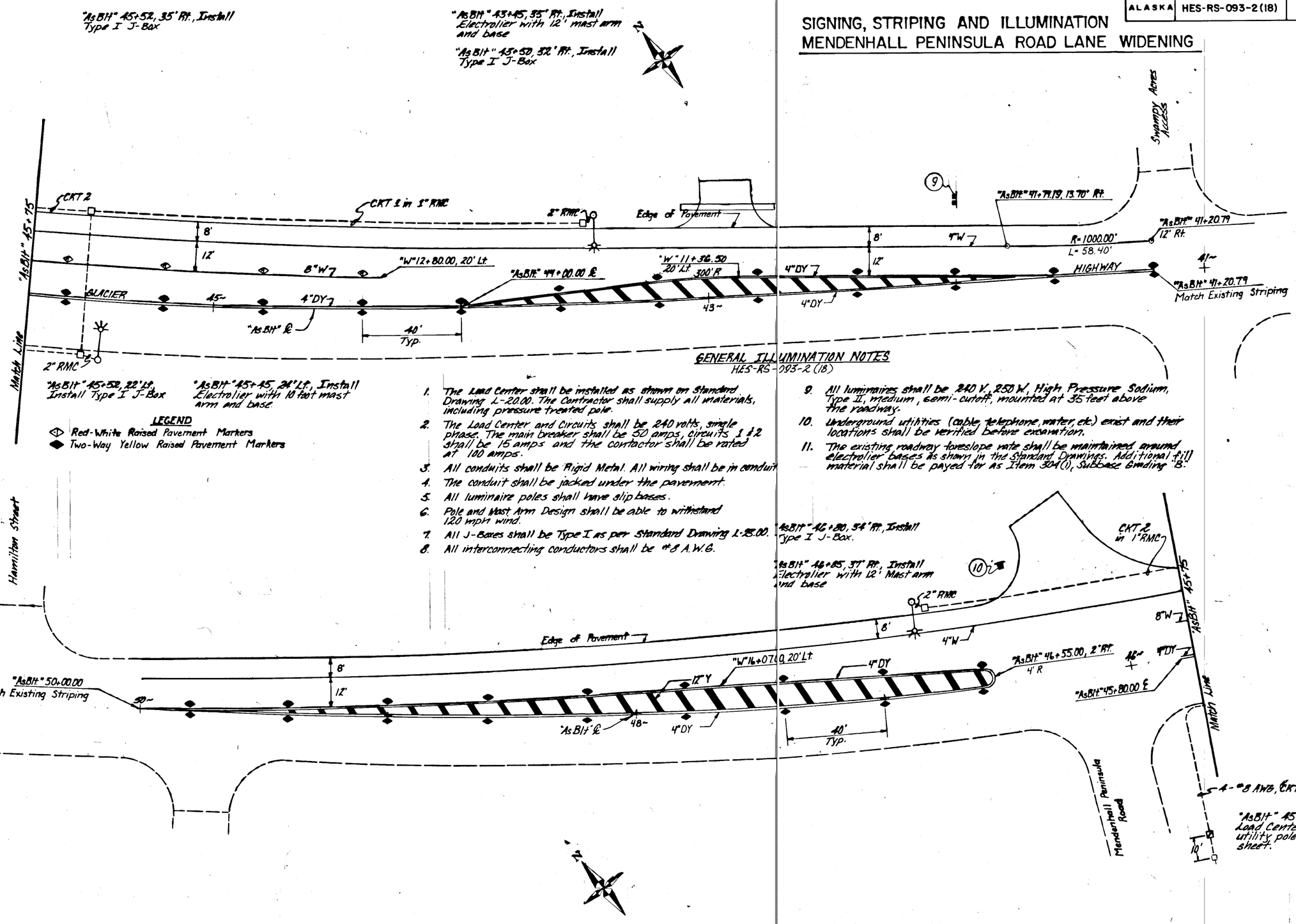
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-RS-093-2(18)	1985	10	11

SIGNING, STRIPING AND ILLUMINATION
MENDENHALL PENINSULA ROAD LANE WIDENING



GENERAL ILLUMINATION NOTES
HES-RS-093-2(18)

1. The Load Center shall be installed as shown on Standard Drawing L-20.00. The Contractor shall supply all materials, including pressure treated pole.
2. The Load Center and Circuits shall be 240 volts, single phase. The main breaker shall be 50 amps, circuits 1 & 2 shall be 15 amps and the contactor shall be rated at 100 amps.
3. All conduits shall be Rigid Metal. All wiring shall be in conduit
4. The conduit shall be jacked under the pavement.
5. All luminaire poles shall have slip bases.
6. Pole and Mast Arm Design shall be able to withstand 120 mph wind.
7. All J-Boxes shall be Type I as per Standard Drawing L-25.00.
8. All interconnecting conductors shall be #8 A.W.G.
9. All luminaires shall be 240 V, 250 W, High Pressure Sodium, Type II, medium, semi-cutoff, mounted at 35 feet above the roadway.
10. Underground utilities (cable, telephone, water, etc.) exist and their locations shall be verified before excavation.
11. The existing roadway foreslope rate shall be maintained around electrolier bases as shown in the Standard Drawings. Additional fill material shall be payed for as Item 304(1), Subbase Grading 'B'.

STATE OF ALASKA 49th
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No. CE3274
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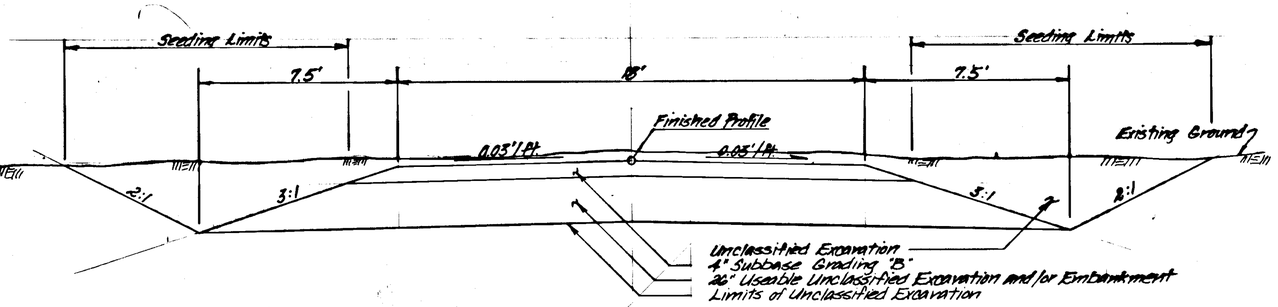
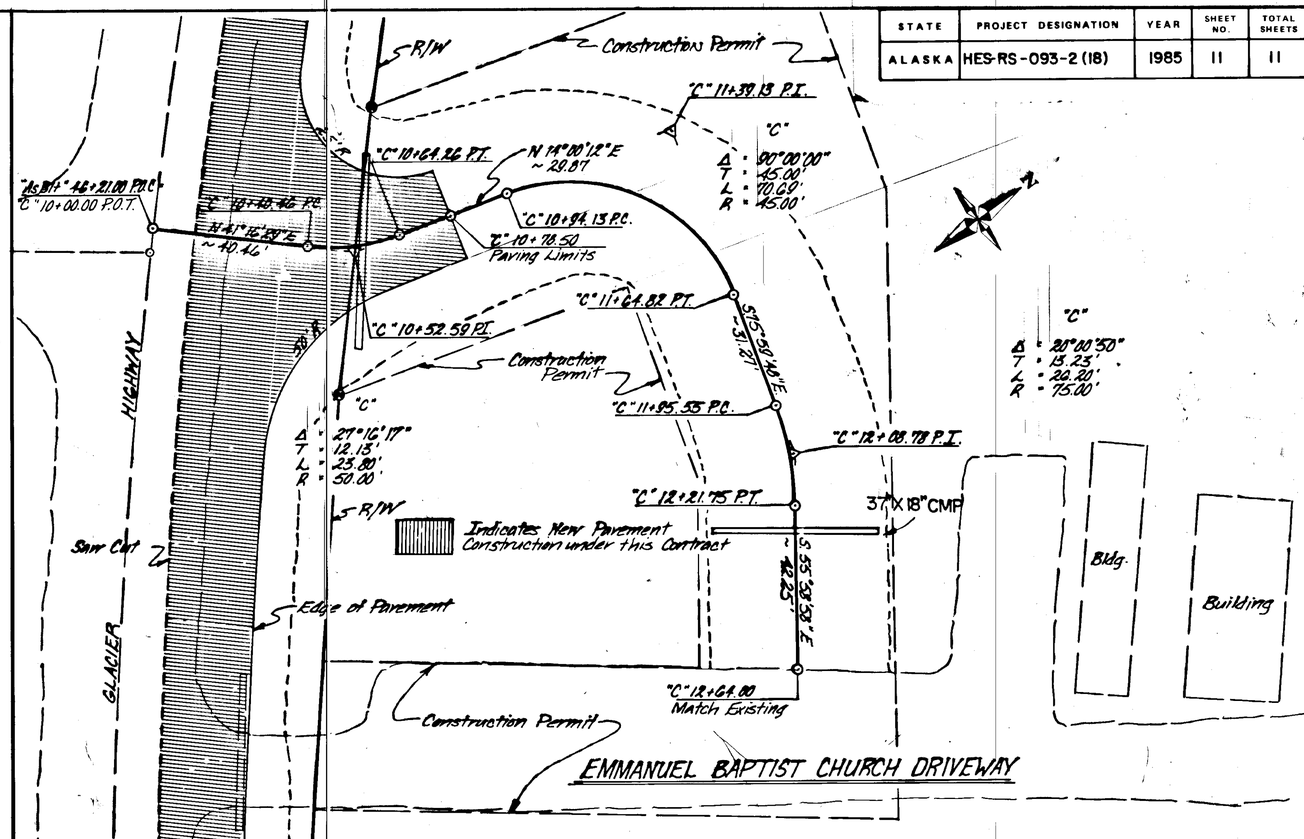
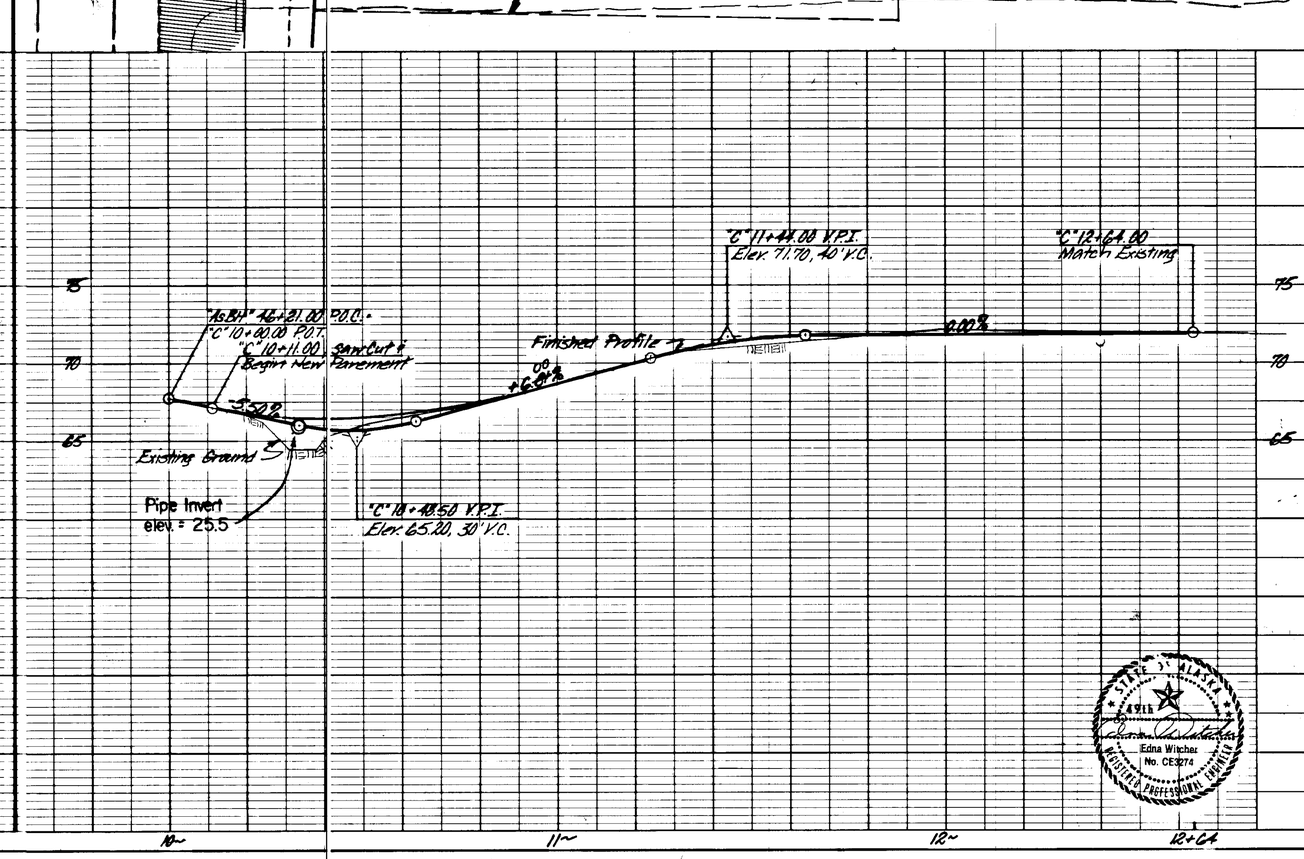


CHURCH DRIVEWAY TYPICAL SECTION

NOTES:

1. The paved portion of the driveway shall be constructed with the same structural section as the Mendenhall Peninsula Road Lane Widening. Beyond the the paving limits, the above detail shall be used.
2. All work involved in forming, shaping and construction shall be considered incidental to the Bid Items involved. Materials required shall be paid for at contract bid prices.
3. From Sta. "C" 10+79 to Sta. "C" 11+29 the driveway width shall transition smoothly from 24' to 18'.
4. The Contractor shall maintain continuous vehicular access to the Emmanuel Baptist Church during the construction of this project.





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