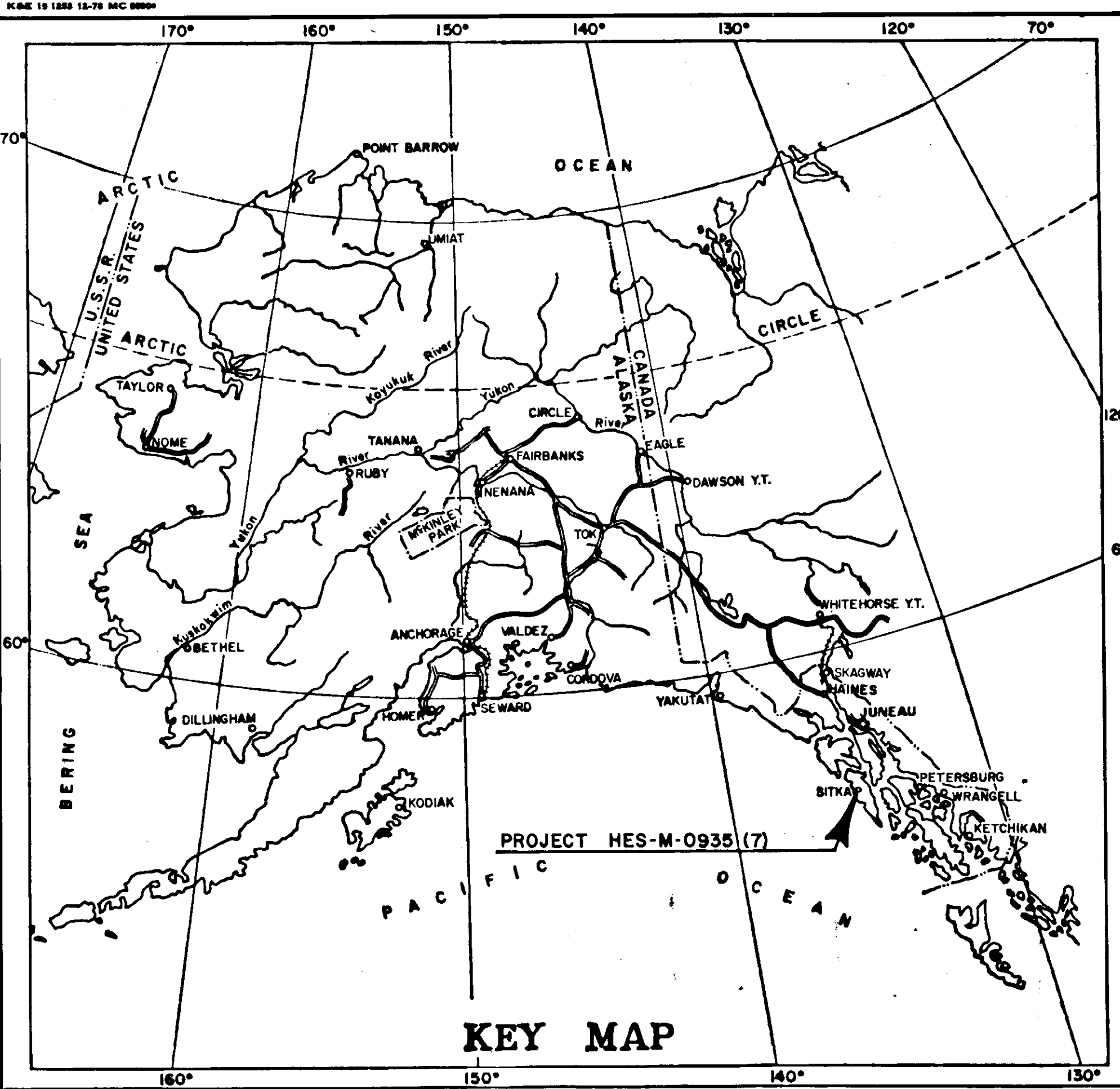


STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	HES-M-0935 (7)	1	7



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT **HES-M-0935 (7) (67525)** **KATLIAN AVENUE INTERSECTION**

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	TYPICAL SECTIONS
3	ESTIMATE OF QUANTITIES AND SUMMARY TABLES
4	PLAN SHEET
5	SIGNING, STRIPING, T.C.P. AND ILLUMINATION
6-7	MISCELLANEOUS DETAILS

THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT: A-1, C-01.02, C-02.00, C-03.01, C-04.00, D-01.00, D-04.10, D-05.10, D-20.01, D-26.01, I-20.01, L-03.00, L-23.00, M-16.00, S-00.00, S-05.00, S-20.00, S-30.01, T-20.00, T-21.01, T-22.01, T-52.01, U-03.00

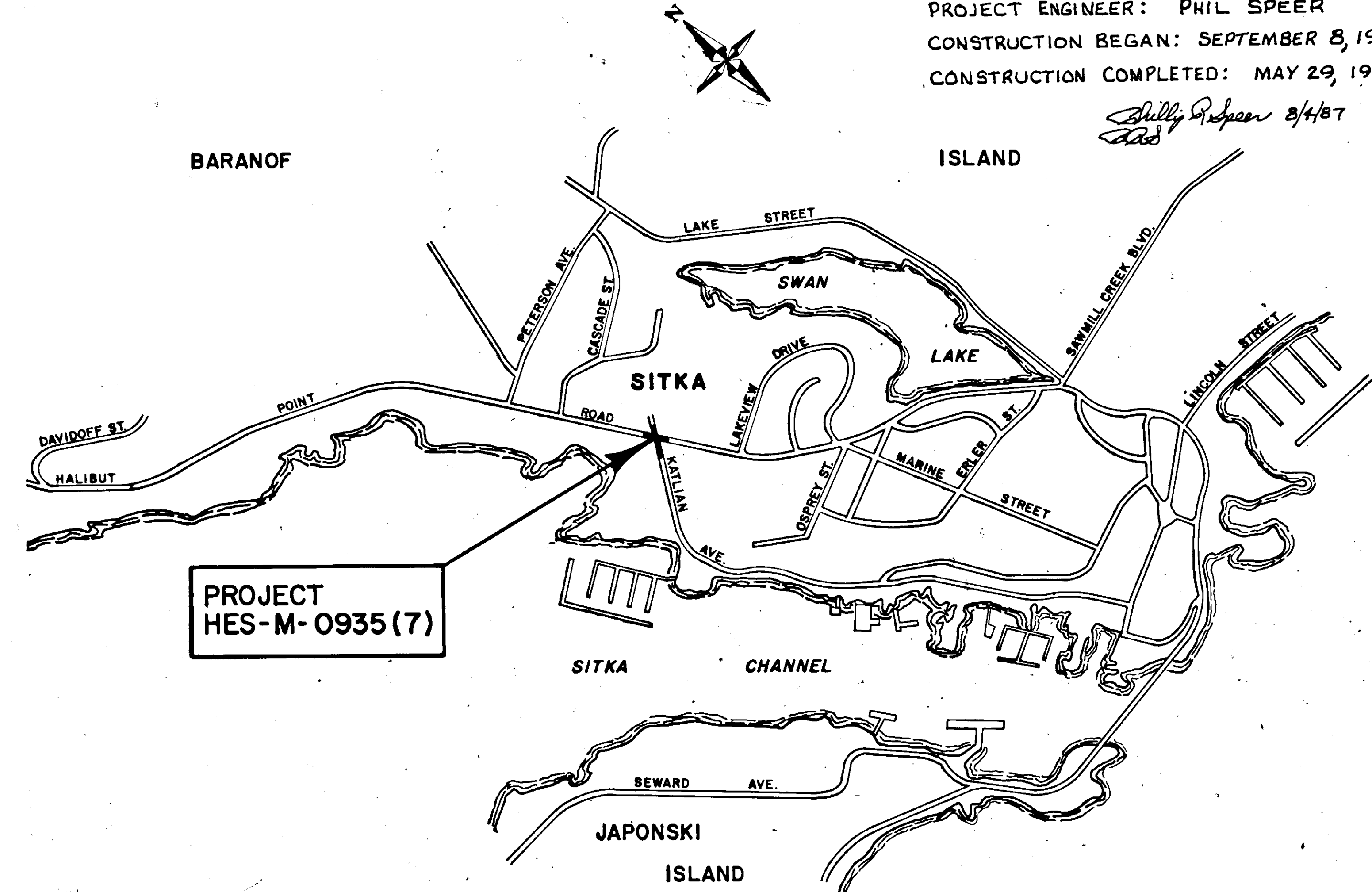
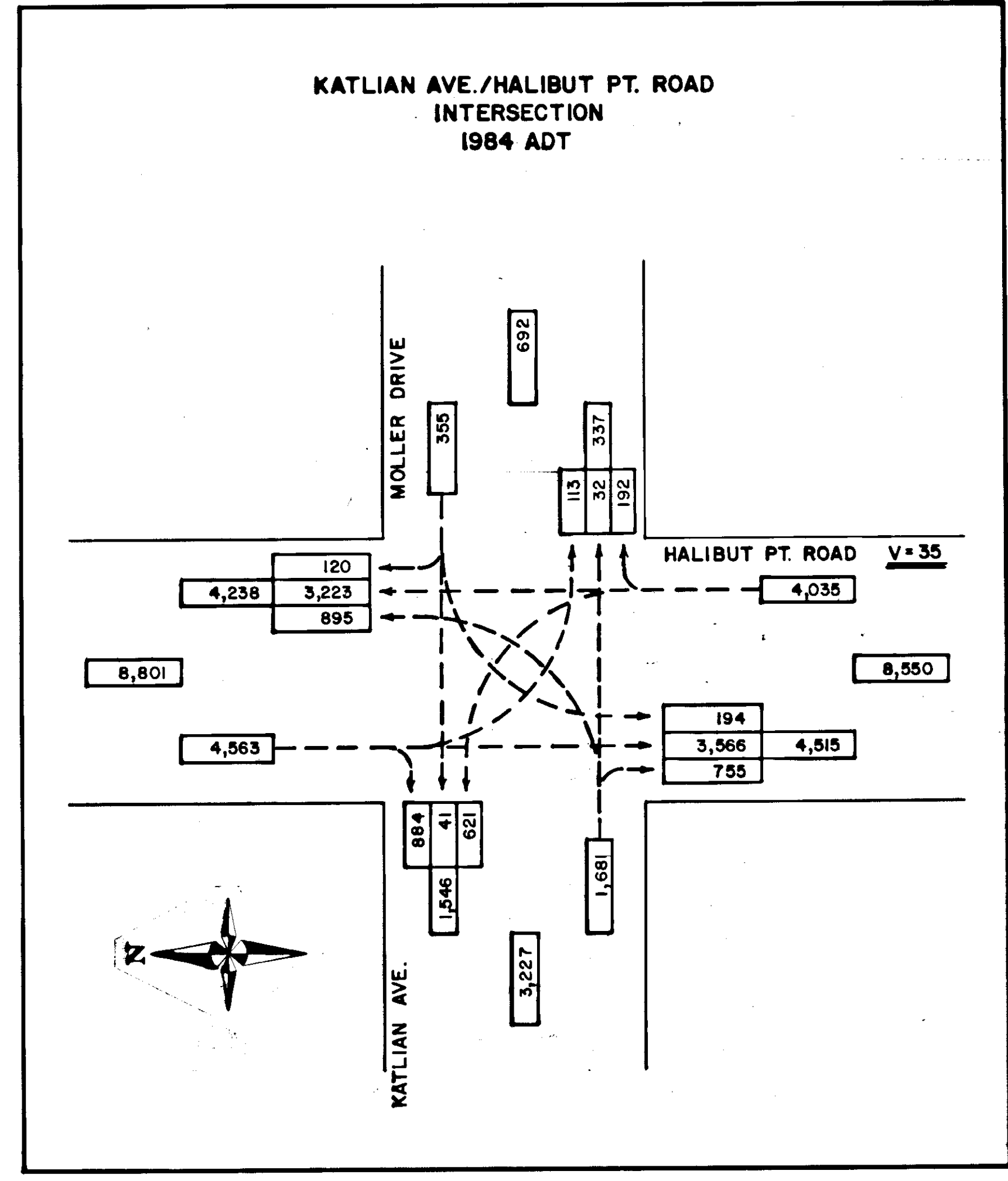
"AS-BUILT"

CONTRACTOR: KEYSTONE ASSOCIATES, INC.
PROJECT ENGINEER: PHIL SPEER
CONSTRUCTION BEGAN: SEPTEMBER 8, 1986
CONSTRUCTION COMPLETED: MAY 29, 1987

Shelly Speer 8/4/87
AS

PROJECT SUMMARY

- HALIBUT POINT ROAD**
 - WIDTH OF WIDENING ▪ 0'-11"
 - LENGTH OF WIDENING ▪ 240.15'
 - KATLIAN AVENUE**
 - WIDTH OF WIDENING ▪ 0'-12"
 - LENGTH OF WIDENING ▪ 345.36'
 - MOLLER DRIVE**
 - WIDTH OF PAVEMENT ▪ 22'-90"
 - LENGTH OF PAVEMENT ▪ 118.00'
- "NO CHANGE IN LENGTH"



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED
John W. Henry DATE 3-27-86
SOUTHEASTERN REGION DESIGN ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

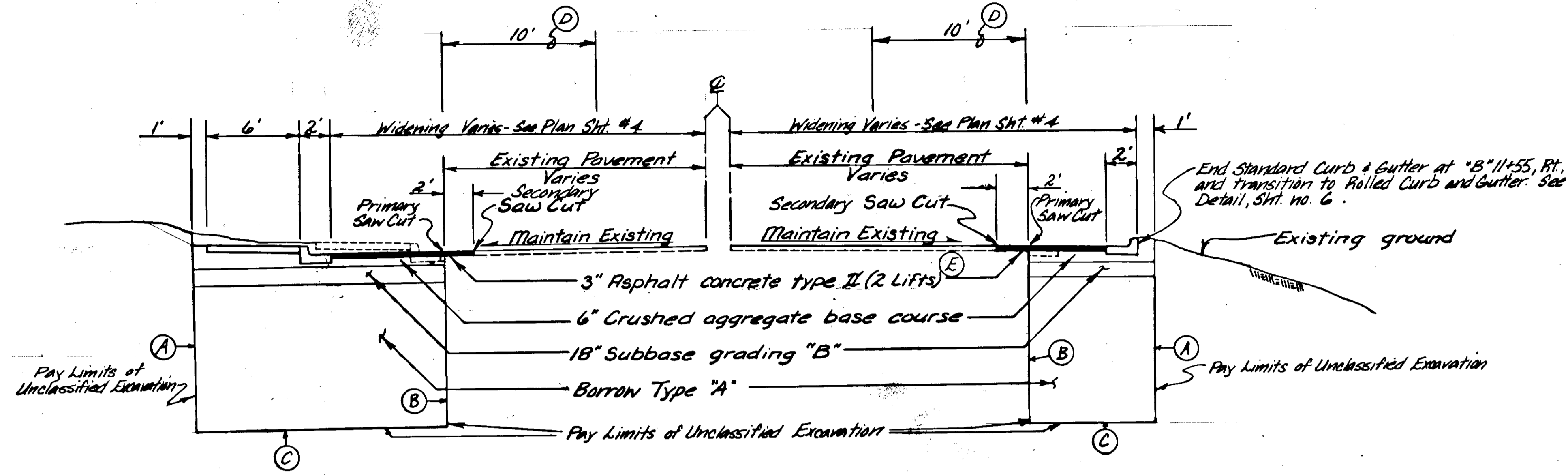
APPROVED
DD [Signature] DATE 3-27-86
DIRECTOR, S.E. REGION DESIGN AND CONSTRUCTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-M-0935 (7)	1986	2	7

TYPICAL SECTIONS OF IMPROVEMENT

GENERAL NOTES

- Alignments and Grades shown on the Plans are subject to minor revisions.
- Pipe conduit lengths and locations are approximate only and are subject to field adjustments.
- 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. Topsoil may be temporarily stored in the Construction Permit areas for re-use on fill slopes.
- Existing Pavement cross slope grades shall be extended through the shoulder of the new asphalt.
- Any special ditching required by the Engineer will be minor and shall be considered incidental to Item 203(3), Unclassified Excavation and no additional payment will be made therefore.
- Any Clearing and Grubbing required shall be considered incidental to Unclassified Excavation and no additional payment will be made therefore.
- The State Historic Preservation Office is requiring an Archaeological Monitor to be on site during excavation. Therefore, the Contractor is required to notify the ADOT/PF Southeast Region Environmental Section at (907) 364-4005 at least 3 days prior to commencing excavation activities.
- Fire Hydrants shall be removed and relocated according to Section 628 of the Standard Specifications. Also, see Std. Dwg. U-03.00 for additional installation information.

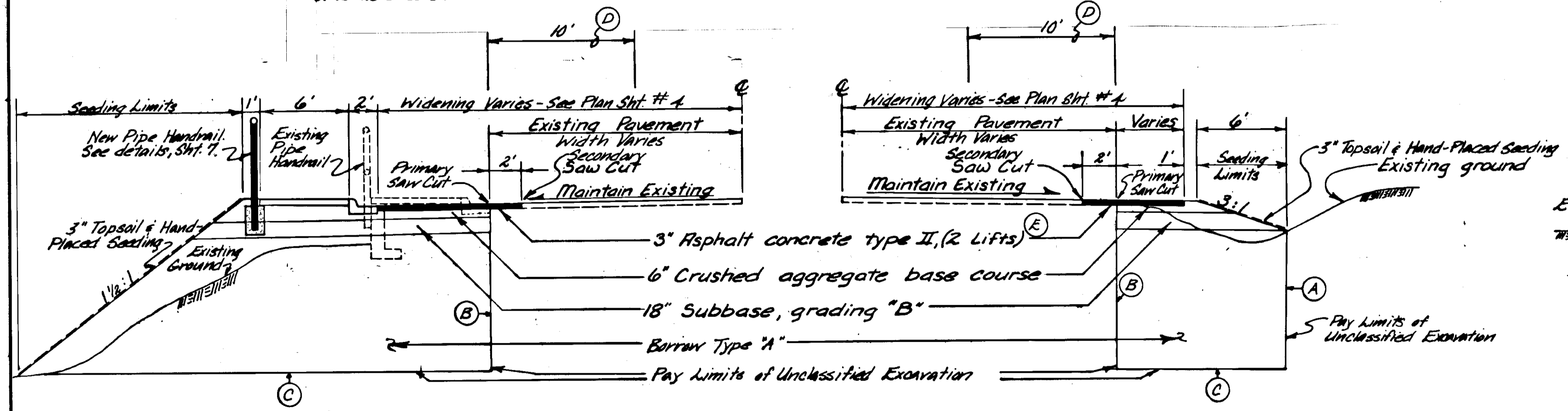


"B" 8+74.85 LT. TO "B" 11+37.17 LT.
Halibut Point Road to Katlian Avenue

"B" 10+79.53 RT. TO "B" 13+85.38 RT.
Katlian Avenue

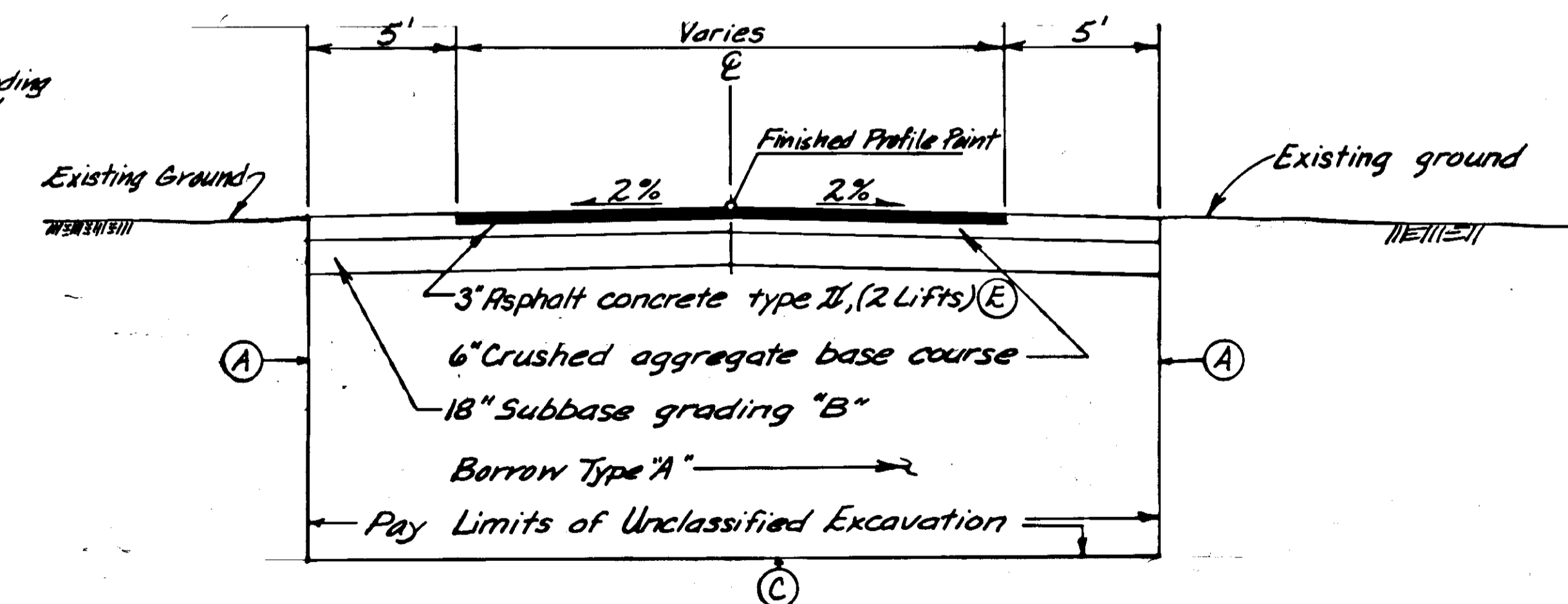
- (A) Excavate as close to Vertical as possible in Peat Material
- (B) Excavation shown as a Vertical Cut. Actual Backslope may vary depending upon the characteristics of the existing roadway Embankment Material encountered. Alternate Backslopes will be as directed by the Engineer.
- (C) Excavate to bottom of peat material or to a maximum of 15' as directed.

- (D) To avoid the possibility of a failure of the existing embankment material and provide a greater measure of safety to the public, No Vehicular Traffic, including construction equipment, shall be allowed within 10' of the edge of the Vertical Excavation plane.
- (E) Both Lifts shall be completed on the same day.



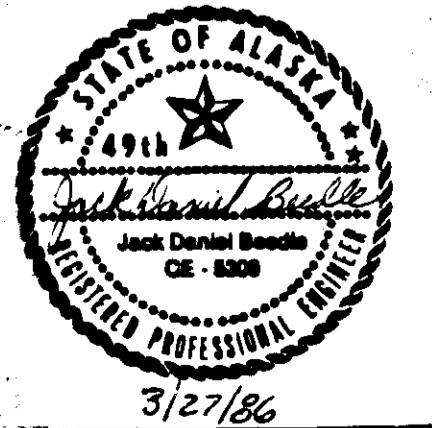
"B" 10+79.53 RT. TO "B" 10+88.98 LT.
Katlian Avenue to Halibut Point Road

"B" 8+80 RT. TO "B" 11+15 RT.
Halibut Point Road



"D" 20+30 TO "D" 21+35
Moller Drive

8/4/87



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-M-0935 (7)	1986	3	7

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
109(2)	DBE and WBE Adjustments	C.S.	All Required
110(2)	Mobilization and Demobilization	L.S.	All Required
111(1)	Temporary Erosion and Pollution Control	C.S.	All Required
113(1)	Flagging	Man Hr.	440 311.5
114(1)	Construction Surveying by the Contractor	L.S.	All Required
115(1)	Traffic Maintenance	L.S.	All Required
202(1)	Removal of Structures and Obstructions	L.S.	All Required
203(3)	Unclassified Excavation	C.Y.	6725 4935
203(SA)	Borrow Type A	C.Y.	6000 4326
116(A)	Furnishing and Maintaining Field Office - E.W.O. No. 1	L.S.	All Req'd
301(1)	Crushed Aggregate Base Course	Ton	525 655.3
304(1)	Subbase Grading "B"	Ton	1500 1559
401(1)	Asphalt Concrete Type II	Ton	225 358.28
401(2)	Asphalt Cement AC-5	Ton	13.5 21.34
603(1)	24-Inch Corrugated Steel Pipe	L.F.	214 225
603(2)	18-Inch Pipe	L.F.	5 6
604(5)	Inlets	Each	2 ✓
608(1)	Concrete Sidewalk, 4-Inch Depth	S.Y.	157 154
609(2a)	Curb and Gutter, Type "Standard"	L.F.	358 348
609(2b)	Curb and Gutter, Type "Rolled"	L.F.	330 332
615(1)	Standard Signs	S.F.	14.42 14.6
618(2)	Seeding (Estimated Quantity = 5300 sq. ft.)	L.S.	All Required
625(1)	Pipe Handrail	L.F.	84 89
628(7)	Fire Hydrant Relocation	Each	2 ✓
628(11)	Adjustment of Valve Box	Each	4 7
660(3)	Highway Lighting System, Complete	L.S.	All Required
670(1)	Painted Traffic Markings	L.S.	All Required

INLET SUMMARY

STRUCTURE	TYPE	LOCATION	OFFSET		TOP CURB ELEV.	INVERT. ELEV.
			LEFT	RIGHT		
S-1	"A"	"A" 9+27	28'	29.7'	44.50	40.50
S-2	Field	"A" 9+50		25'	44.10	39.00

PIPE SUMMARY

PIPE	DIA.	LENGTH	FROM		TO	
			STRUC. / STA.	ELEV.	STRUC. / STA.	ELEV.
P-1	24"	54' 63"	S-1	40.50	S-2	40.00
P-2	18"	5' 6"	S-2	41.40	"A" 9+50, 32' RT	41.70
P-3	24"	76' 0" 162"	S-2	39.00	"A" 11+13, 26' RT	36.50

BASIS OF ESTIMATE

ITEM NO.	ITEM	FACTOR
301(1)	Crushed Aggregate Base Course	1.96 Tons / Cu. Yd.
304(1)	Subbase, Grading	1.90 Tons / Cu. Yd.
401(1)	Asphalt Concrete, Type II	116 lbs / S.Y. / Inch Depth
401(2)	Asphalt Cement AC-5	6% of Item 401(1)

ILLUMINATION SUMMARY

STATION	OFFSET	ITEM	REMARKS
"A" 9+25	40' Lt.	J-Box	
"A" 9+29	42' Lt.	Electrolier	Signal Pole w/ lighting & 18' Mast Arm
"A" 9+52	27' Rt.	J-Box	
"A" 9+81	45' Rt.	J-Box	
"A" 9+98	57' Rt.	J-Box	
"A" 10+47	48' Rt.	J-Box	

GENERAL SIGNING NOTES

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 & Public Facilities maintenance yard in Sitka. 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 2 1/4" size shall be used below ground. Embed a minimum of 3 feet, unless otherwise specified. (See signing Schedule).
4. All signs shall be unframed and 0.080" thick. All D3-1 street name signs shall have legend on both sides.
5. Sign post length includes the one foot telescope inside the base. Lengths are for estimating only, actual lengths may vary.

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STATION	DESCRIPTION OF ITEM	REMARKS
"D" 20+25, @	80 L.F. of Pipe Conduit	Remove & dispose
"A" 10+06, Lt. to "A" 10+89, Lt.	100 L.F. Sidewalk	Remove & dispose
"A" 10+89, Lt. to "B" 13+42, Rt.	423 L.F. Curb & Gutter	Remove & dispose
"A" 8+75, Lt. to "B" 11+37, Lt.	175 L.F. Curb, Gutter & Sidewalk	Remove & dispose
"B" 11+50, 40 ft.	Logs	Remove & Dispose
"A" 10+47 to "A" 10+89, Lt.	42 L.F. of Concrete Retaining Wall and Pipe Handrail.	Remove Handrail, Saw Cut Retaining Wall and Remove & Dispose
		Re-install Pipe Handrail End section. Dispose of Remaining Rail.
		See End Section re-installation detail on sheet 7.

SIGNING SCHEDULE

NO.	STATION	OFFSET		CODE	LEGEND	SIGN PANEL		POST			FACING TRAFFIC	REMARKS	
		LT.	RT.			SIZE	AREA S.F.	No. of Posts	TYPE	SIZE			LENGTH
1.	"D" 20+57	32'		R1-1	STOP	24x24	4.00	1	PST	2"x2"	12'	S.B.	
2.	"B" 10+78	32'		R1-1	STOP	30x30	6.25	1	PST	2"x2"	10'	N.B.	
3.	"B" 10+78	32'		D3-1	KATLIAN AVE.	8x34	1.89					EB-WB	Mount above #2
4.	"B" 10+78	32'		D3-1	HALIBUT POINT RD.	8x45	2.28 ⁵⁰					NB-SB	Mount above #2

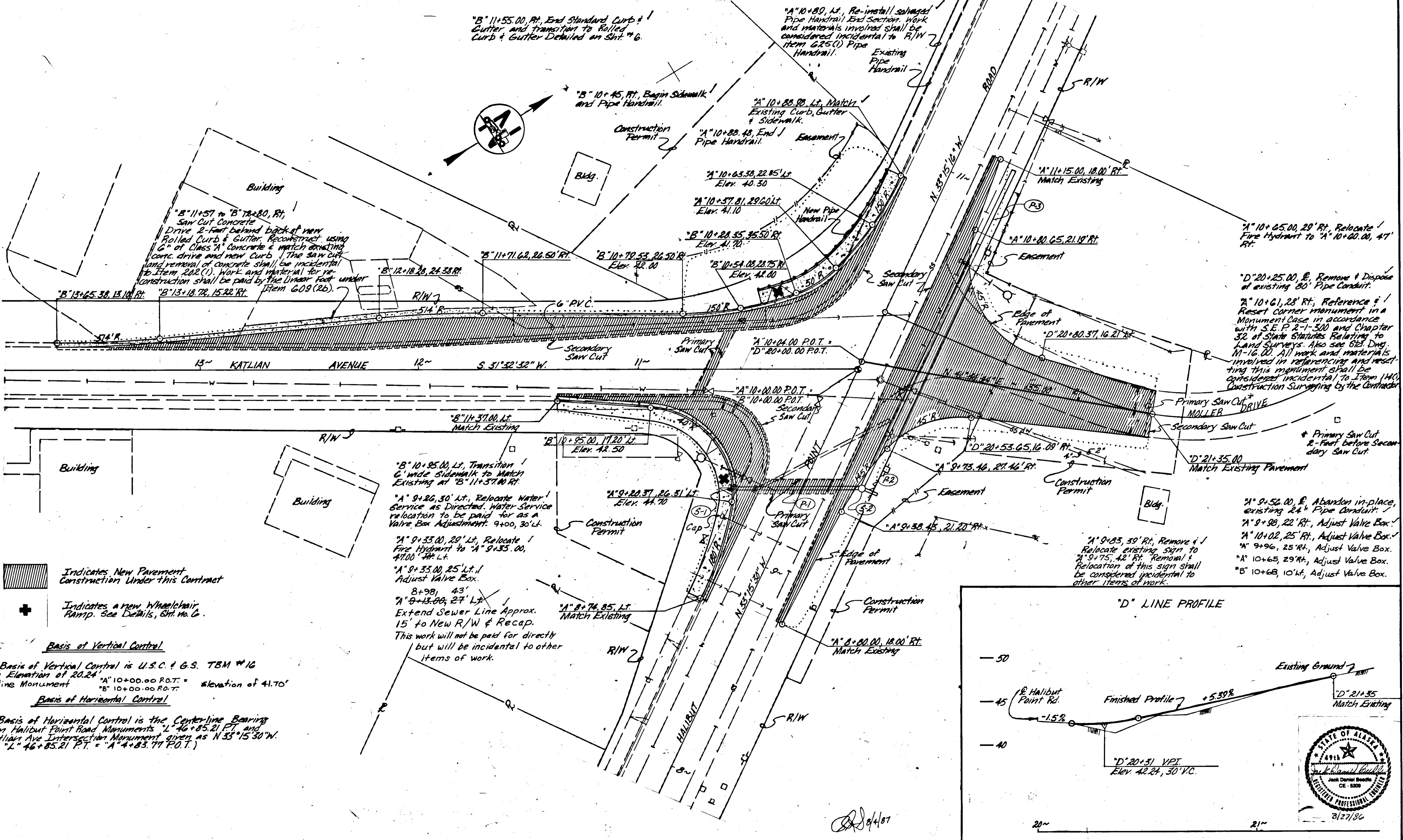


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ALASKA	HES-M-0835 (7)	1986	4	7

NOTE: The Geometrics in Curb & Gutter Sections are calculated at the Back of Curb.

KATLIAN AVE. INTERSECTION



"B" 11+55.00, Rt. End Standard Curb & Gutter and transition to Rolled Curb & Gutter Detailed on Sht. #6.

"A" 10+80, Lt. Re-install salvaged Pipe Handrail End Section. Work and materials involved shall be considered incidental to R/W item G.25(1) Pipe Handrail.

"B" 10+45, Ft. Begin Sidewalk and Pipe Handrail.

"A" 10+88.80, Lt. Match Existing Curb, Gutter & Sidewalk.

"A" 10+88.43, End J Pipe Handrail.

"A" 10+63.38, 22.85' Lt. Elev. 40.30

"A" 10+57.81, 29.60' Lt. Elev. 41.10

"B" 10+28.35, 35.50' Rt. Elev. 41.70

"B" 10+54.08, 28.75' Rt. Elev. 42.00

"A" 10+04.00 P.O.T. "D" 20+00.00 P.O.T.

"A" 10+00.00 P.O.T. "B" 10+00.00 P.O.T.

"B" 11+71.62, 26.50' Rt.

"B" 10+72.53, 26.50' Rt. Elev. 42.00

"B" 12+18.28, 24.38' Rt.

"B" 13+65.38, 13.10' Rt.

"B" 13+18.78, 15.22' Rt.

"B" 11+57 to "B" 12+80, Rt. Saw Cut Concrete Drive 2-feet behind back of new Rolled Curb & Gutter. Reconstruct using 1" G of Class A Concrete & match existing conc. drive and new Curb. The saw cut and removal of concrete shall be incidental to Item 202(1). Work and material for reconstruction shall be paid by the linear foot under Item 609(26).

"A" 10+65.00, 29' Rt. Relocate Fire Hydrant to "A" 10+80.00, 47' Rt.

"D" 20+25.00, E. Remove & Dispose of existing 80' Pipe Conduit.

"A" 10+61, 28' Rt. Reference & Reset corner monument in accordance with S.E.P. 2-1-500 and Chapter 32 of State Statutes Relating to Land Surveys. Also see Sht. Dwg. M-16.00. All work and materials involved in referencing and resetting this monument shall be considered incidental to Item 140. Construction Surveying by the Contractor.

"D" 21+35.00 Match Existing Pavement

* Primary Saw Cut 2-feet before Secondary Saw Cut.

"A" 9+52.00, E. Abandon in-place, existing 24' Pipe Conduit.

"A" 9+98, 22' Rt. Adjust Valve Box.

"A" 10+02, 25' Rt. Adjust Valve Box.

"A" 9+96, 25' Rt. Adjust Valve Box.

"A" 10+65, 29' Rt. Adjust Valve Box.

"B" 10+68, 10' Lt. Adjust Valve Box.

"B" 10+95.00, Lt. Transition 6' wide Sidewalk to Match Existing at "B" 11+37.00 Rt.

"A" 9+26, 30' Lt. Relocate Water Service as Directed. Water Service relocation to be paid for as a Valve Box Adjustment. 9+00, 30' Lt.

"A" 9+33.00, 29' Lt. Relocate Fire Hydrant to "A" 9+33.00, 47' Lt.

"A" 9+33.00, 25' Lt. Adjust Valve Box.

8+98, 43' "A" 9+13.00, 27' Lt. Extend Sewer Line Approx. 15' to New R/W & Recap.

This work will not be paid for directly but will be incidental to other items of work.

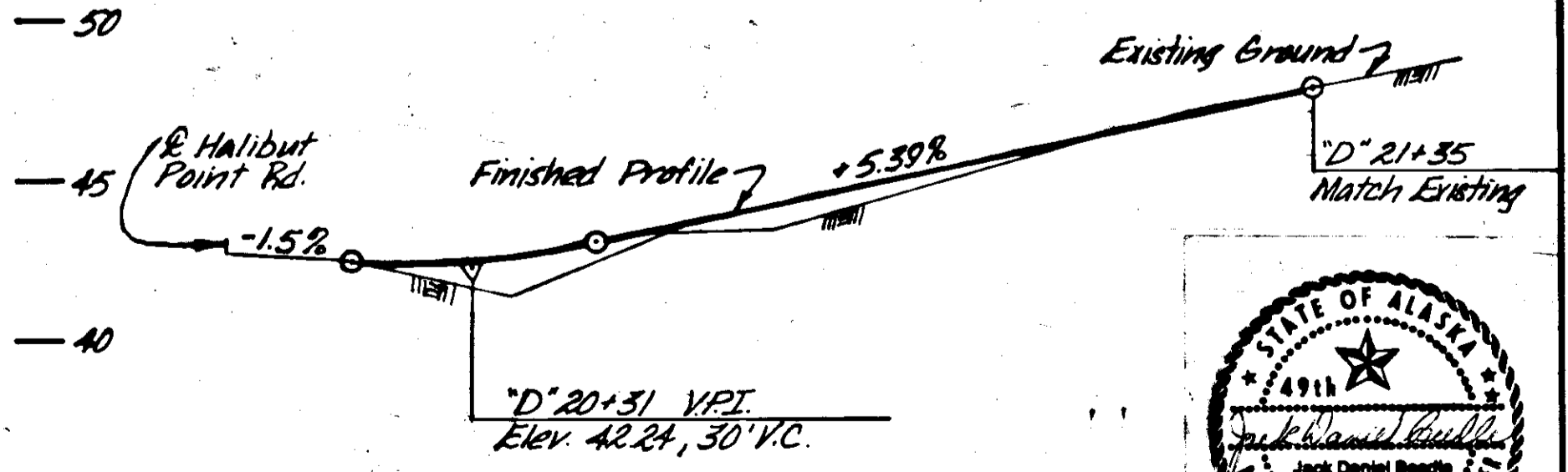
"A" 8+74.85, Lt. Match Existing

"A" 9+38.45, 21.20' Rt.

"A" 8+80.00, 18.00' Rt. Match Existing

"A" 9+83, 39' Rt. Remove & Relocate existing sign to "A" 9+75, 42' Rt. Removal & Relocation of this sign shall be considered incidental to other items of work.

"D" LINE PROFILE



Indicates New Pavement Construction Under this Contract

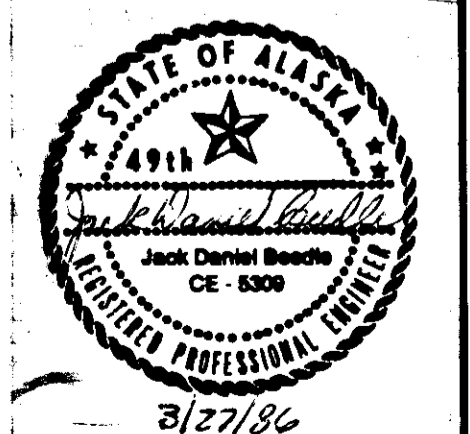
Indicates a new Wheelchair Ramp. See Details, Sht. no. 6.

Basis of Vertical Control

The Basis of Vertical Control is U.S.C. & G.S. TBM #16 with an Elevation of 20.24' "A" 10+00.00 P.O.T. = elevation of 41.70' "B" 10+00.00 P.O.T.

Basis of Horizontal Control

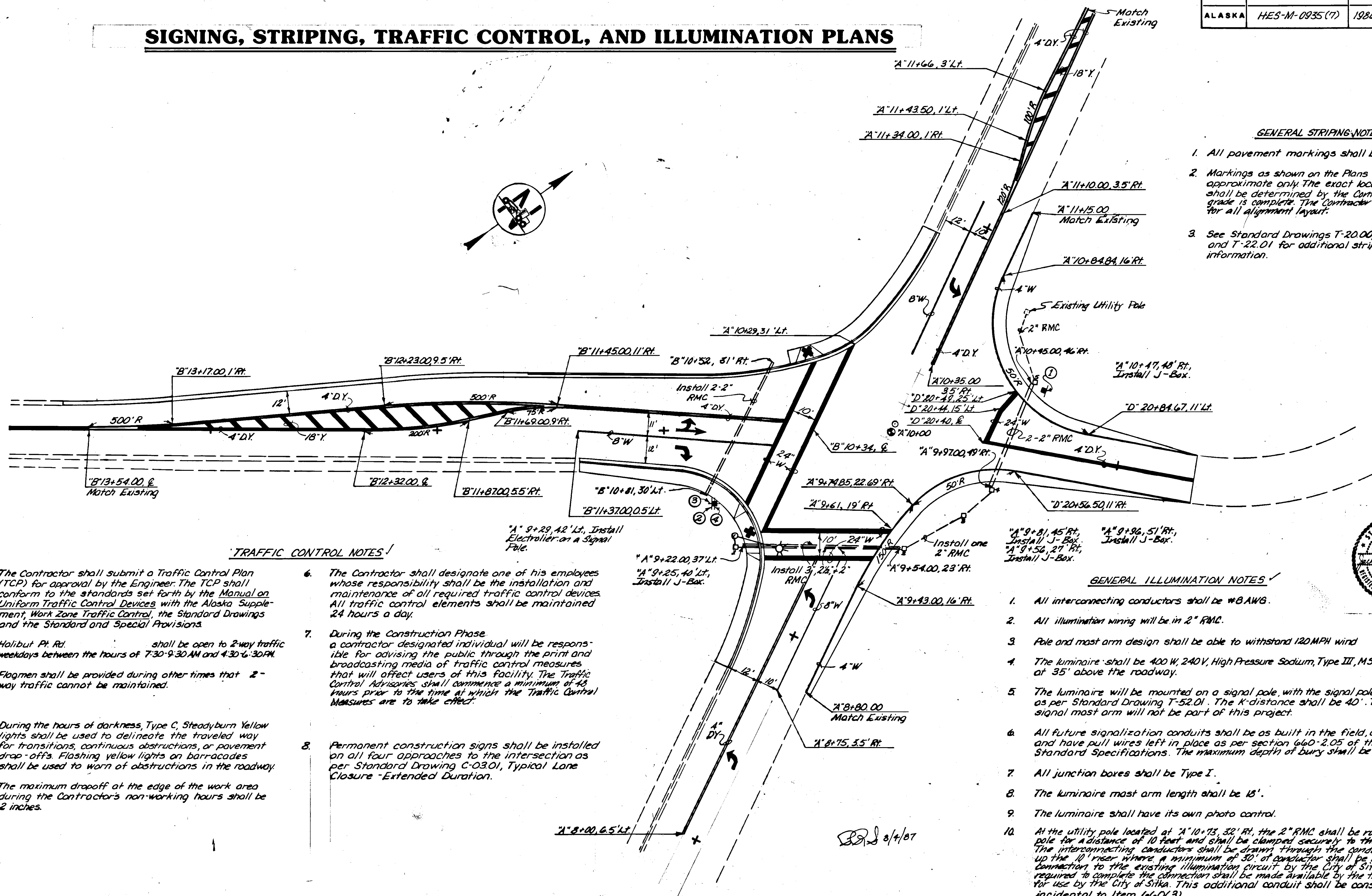
The Basis of Horizontal Control is the Centerline Bearing between Halibut Point Road Monuments "L" 46+85.21 P.T. and the Katlian Ave Intersection Monument given as N 35° 15' 30" W. (Note: "L" 46+85.21 P.T. = "A" 4+83.77 P.O.T.)



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ALASKA	HES-M-0935(7)	1986	5	7

SIGNING, STRIPING, TRAFFIC CONTROL, AND ILLUMINATION PLANS



GENERAL STRIPING NOTES

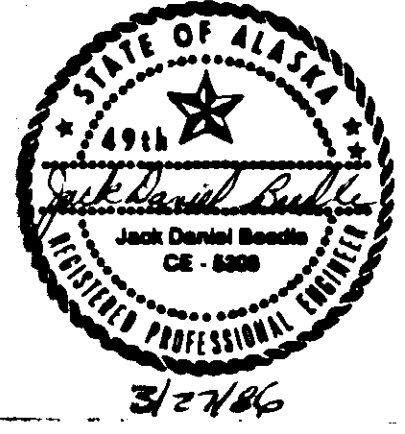
1. All pavement markings shall be painted.
2. Markings as shown on the Plans are approximate only. The exact locations shall be determined by the Contractor after grade is complete. The Contractor is responsible for all alignment layout.
3. See Standard Drawings T-20.00, T-21.01, and T-22.01 for additional striping information.

TRAFFIC CONTROL NOTES

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. Halibut Pt. Rd. shall be open to 2-way traffic weekdays between the hours of 7:30-9:30 AM and 4:30-6:30 PM.
3. Flagmen shall be provided during other times that 2-way traffic cannot be maintained.
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 barricades shall be used to warn of obstructions in the roadway.
5. The maximum dropoff at the edge of the work area during the Contractor's non-working hours shall be 2 inches.
6. 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.
7. During the Construction Phase a contractor designated individual will be responsible for advising the public through the print and broadcasting media of traffic control measures that will affect users of this facility. The Traffic Control Advisories shall commence a minimum of 48 hours prior to the time at which the Traffic Control Measures are to take effect.
8. Permanent construction signs shall be installed on all four approaches to the intersection as per Standard Drawing C-03.01, Typical Lane Closure - Extended Duration.

GENERAL ILLUMINATION NOTES

1. All interconnecting conductors shall be #8 AWG.
2. All illumination wiring will be in 2" RMC.
3. Pole and mast arm design shall be able to withstand 120 MPH wind.
4. The luminaire shall be 400 W, 240V, High Pressure Sodium, Type III, MSC mounted at 35' above the roadway.
5. The luminaire will be mounted on a signal pole, with the signal pole footing, as per Standard Drawing T-52.01. The K-distance shall be 40'. The signal mast arm will not be part of this project.
6. All future signalization conduits shall be as built in the field, capped, and have pull wires left in place as per section 660-2.05 of the Standard Specifications. The maximum depth of bury shall be 36".
7. All junction boxes shall be Type I.
8. The luminaire mast arm length shall be 18'.
9. The luminaire shall have its own photo control.
10. At the utility pole located at 'A' 10+73, 32' Rt., the 2" RMC shall be run up the pole for a distance of 10 feet and shall be clamped securely to the pole. The interconnecting conductors shall be drawn through the conduits and up the 10' riser where a minimum of 30' of conductor shall be left for connection to the existing illumination circuit by the City of Sitka. Conduit required to complete the connection shall be made available by the Contractor for use by the City of Sitka. This additional conduit shall be considered incidental to Item 660(3).




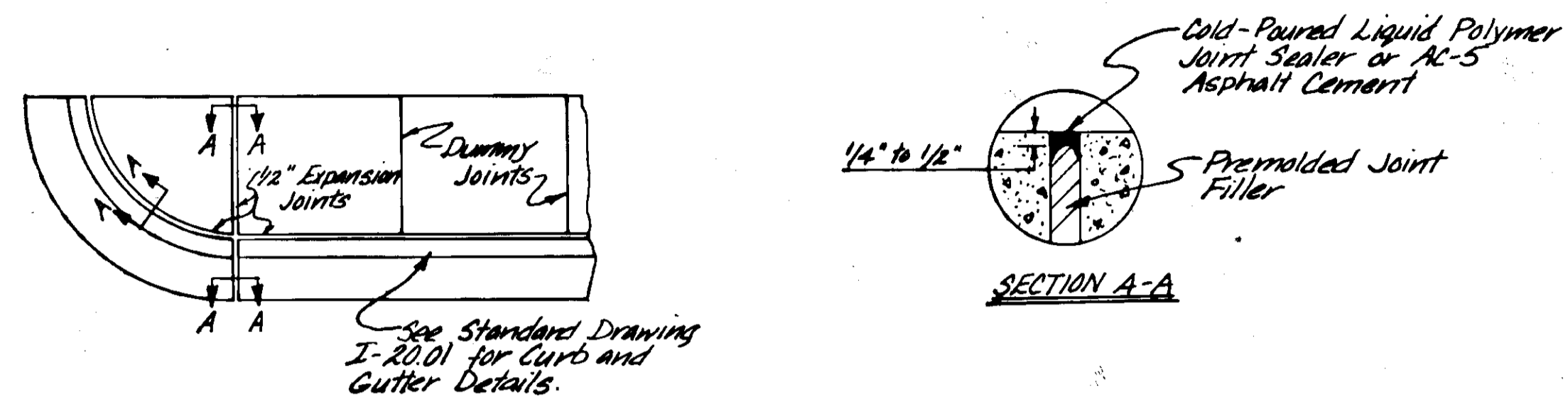
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ALASKA	HES-M-0935 (7)	1986	6	7

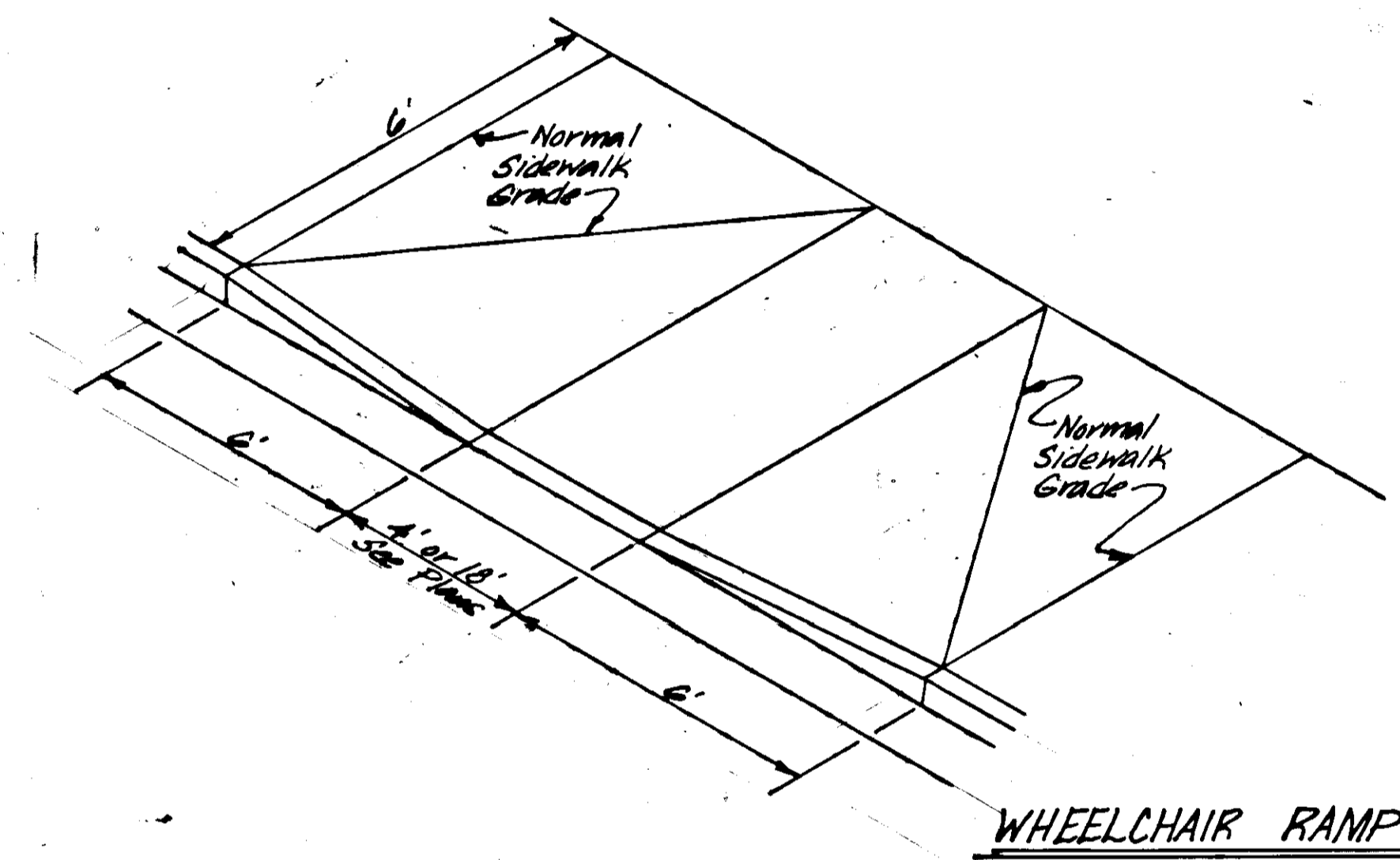
MISCELLANEOUS DETAILS

SIDEWALK NOTES

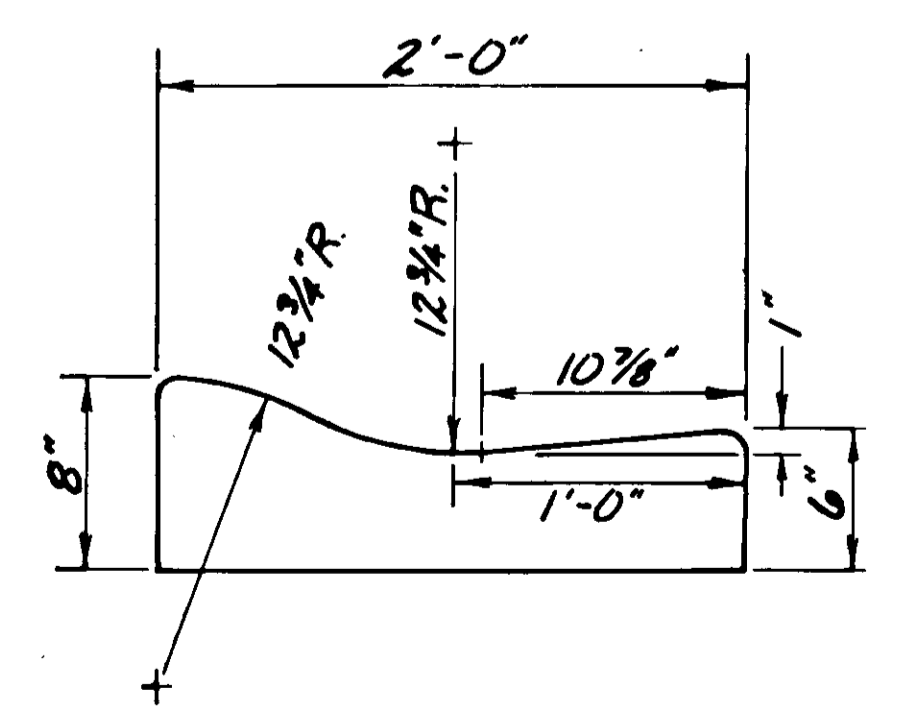
1. Premolded expansion joint filler & liquid polymer joint sealer (see specifications) or AC-5 Asphalt Cement shall be considered incidental to Items 608(1), 609(2a) & 609(2b) and no separate payment shall be made therefor.
2. Curb and Gutter expansion joints shall be at each end of the curb returns & immediately preceding and following all curb cuts. Thereafter they shall be placed at intervals of 30' except where shorter sections are needed for closure.
3. Sidewalk expansion joints shall be opposite expansion joints in adjoining Curb and Gutter. Dummy joints shall be equally spaced between expansion joints; spacing shall not exceed 5'.
4. Wheelchair ramps shall be constructed as detailed on this sheet and shall be constructed at locations designated by a  on plan sheet no. 4.
5. Wheelchair ramps shall have a wood float finish or broom finish & shall have a small curb face of 1".



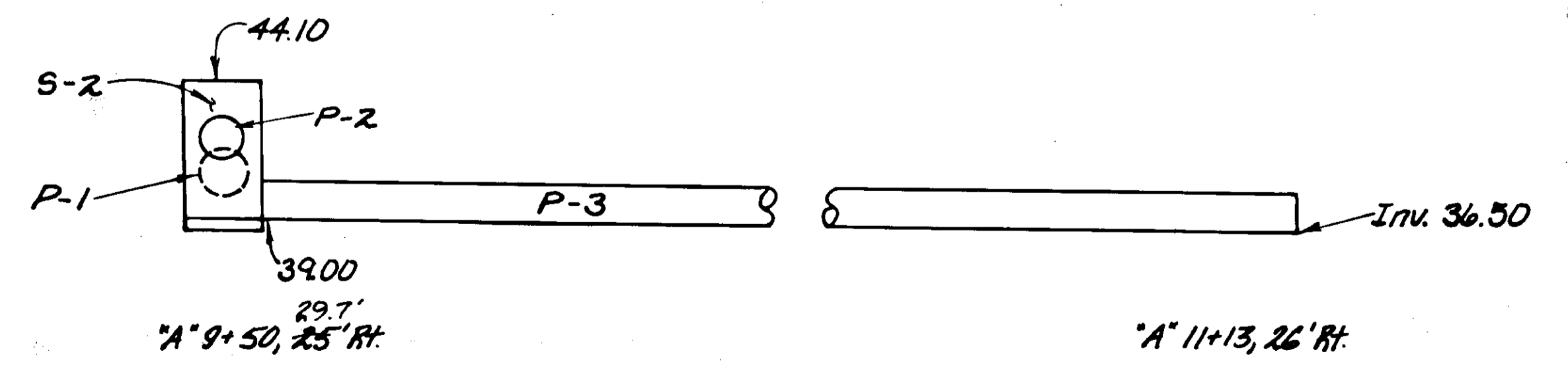
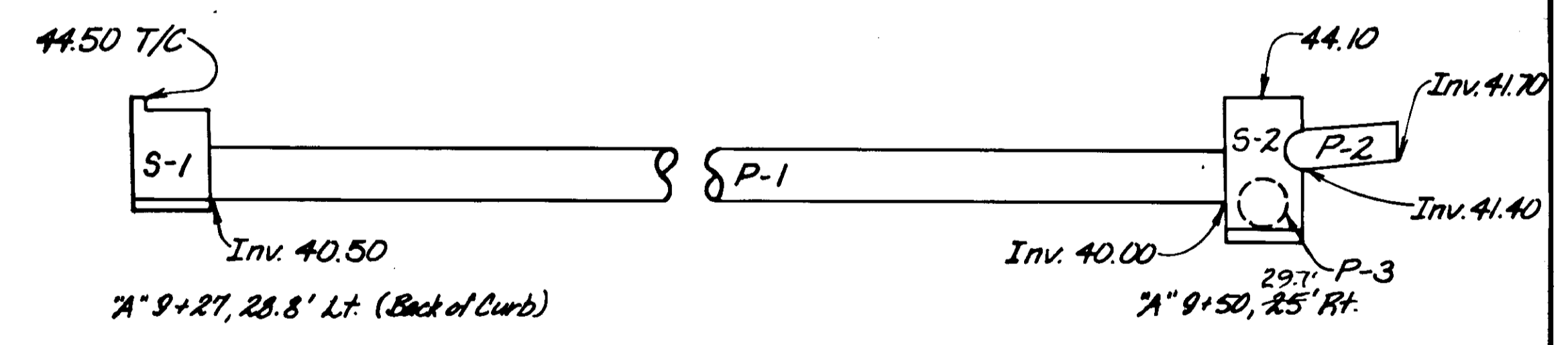
TYPICAL CURB & SIDEWALK JOINT DETAILS



WHEELCHAIR RAMP DETAILS



ROLLED CURB AND GUTTER

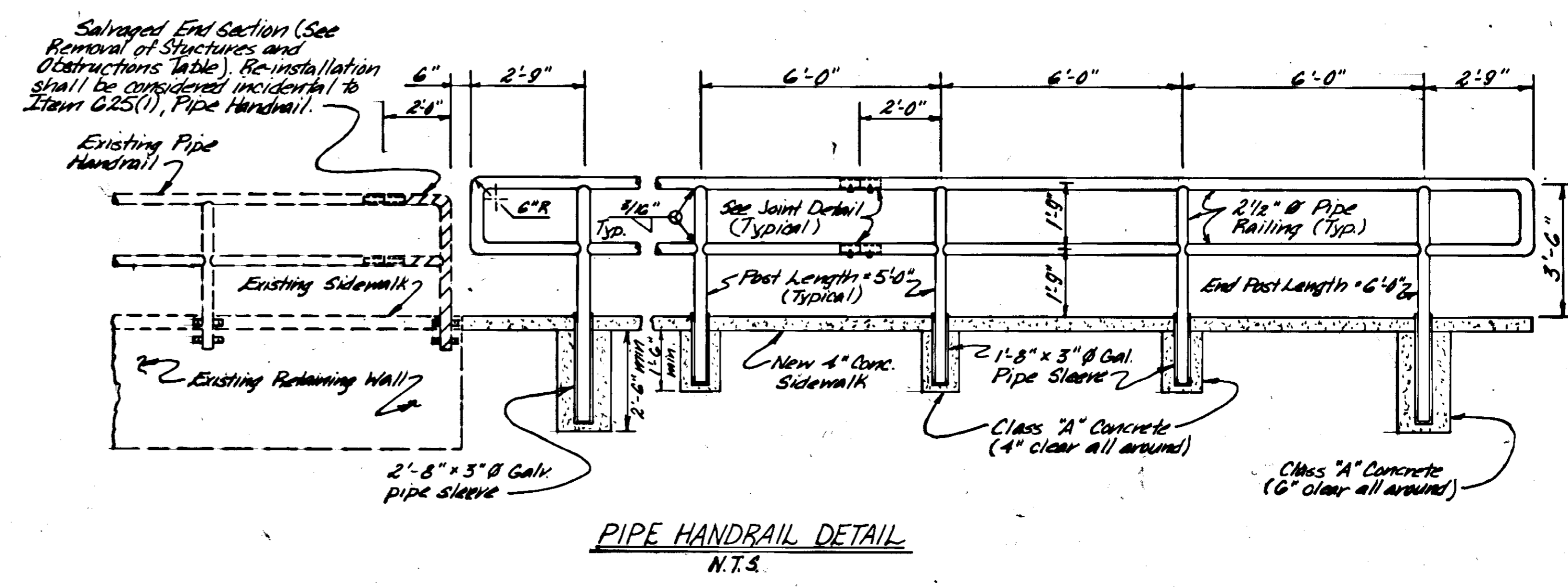
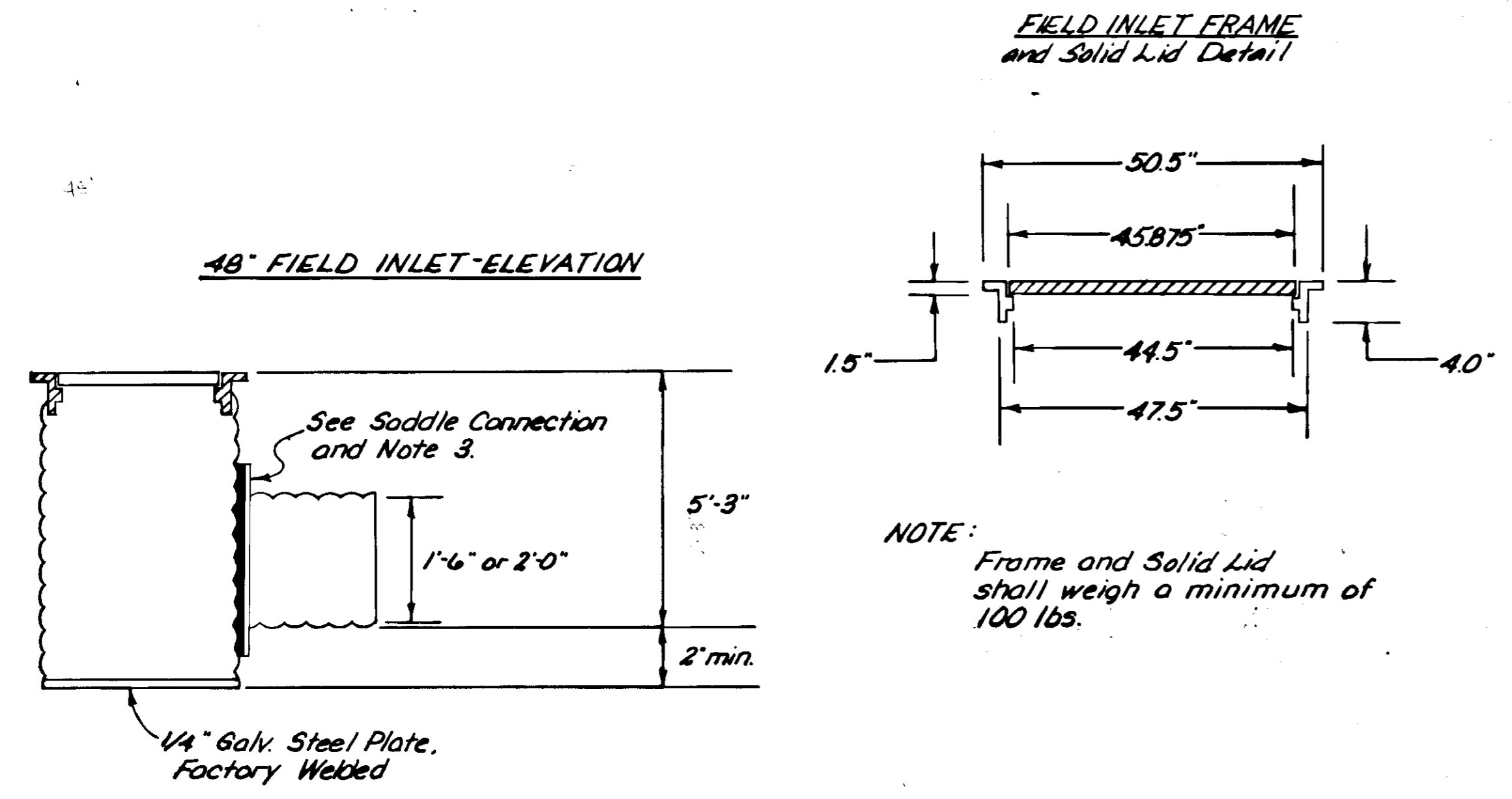


DRAINAGE STRUCTURE LAYOUT

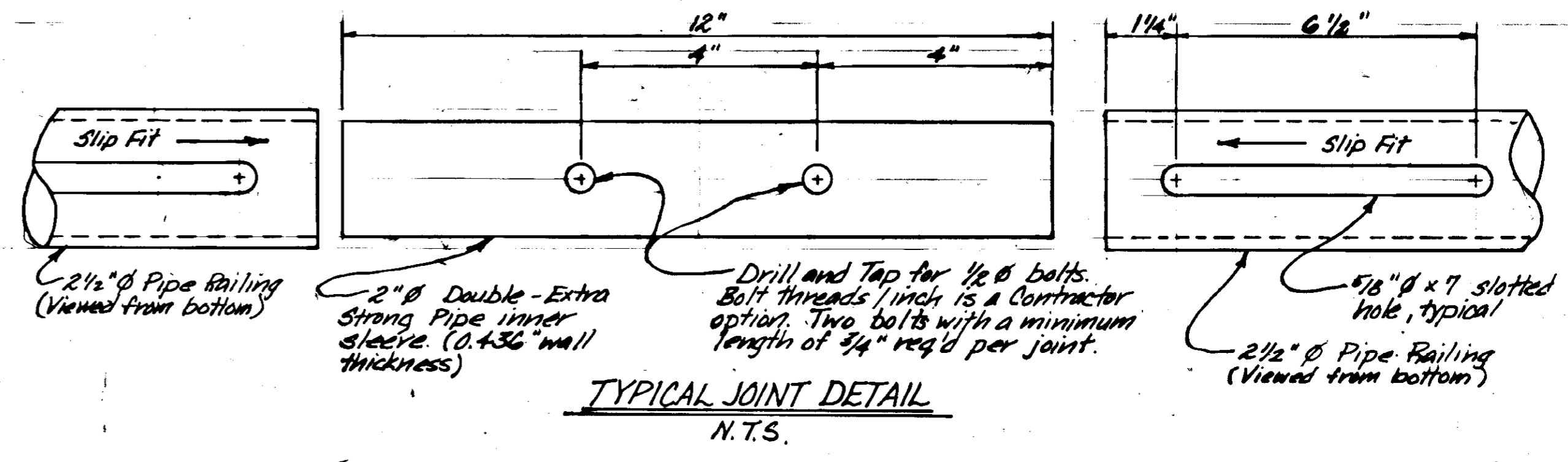
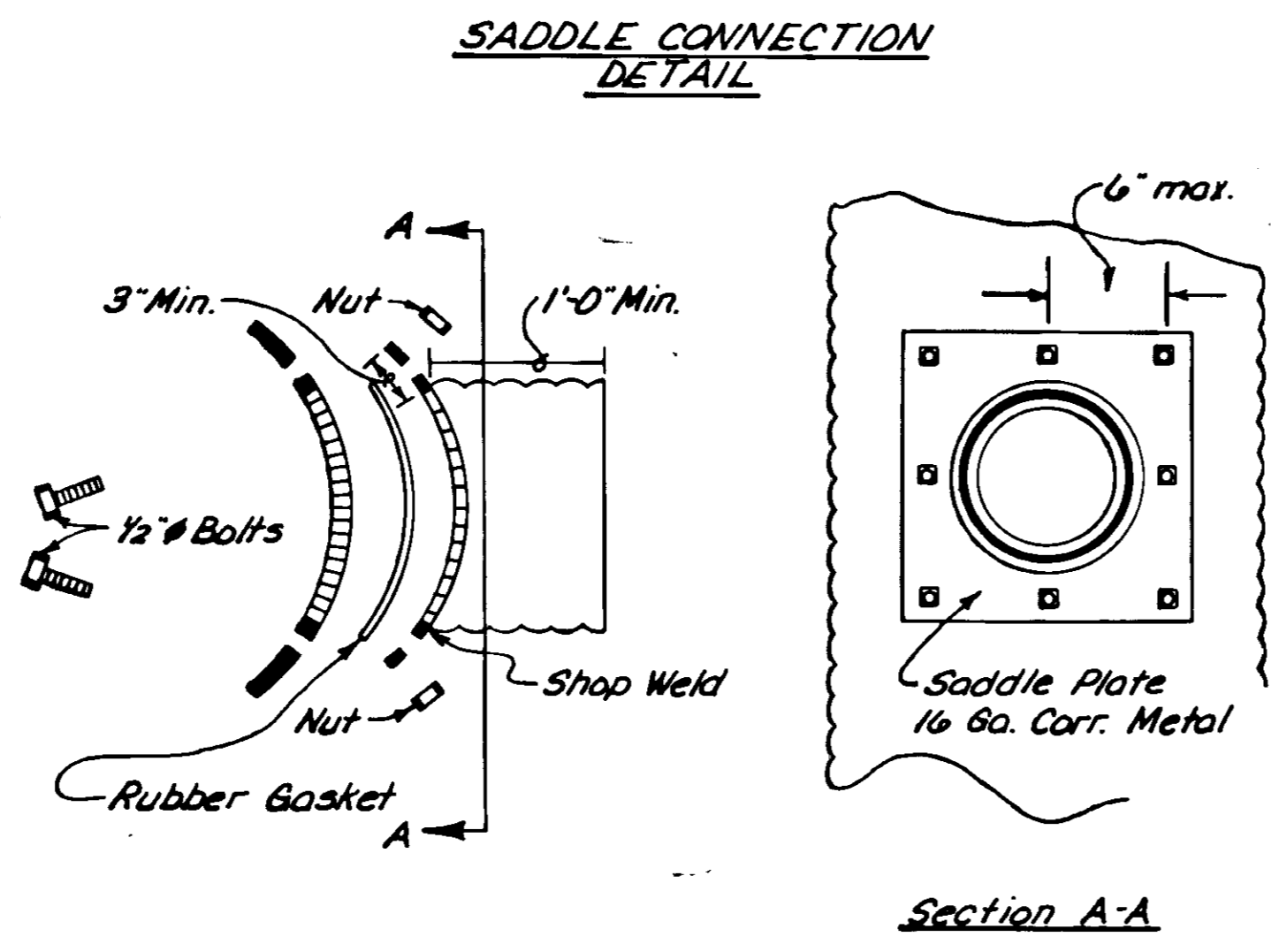
8/4/87

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HES-M-0935 (7)	1986	7	7

MISCELLANEOUS DETAILS



- NOTES:**
1. See Drainage Details for locations of field inlets, elevations, and stub-out locations.
 2. The rubber gasket used in the saddle connection shall conform to section 705-2.05 of the Standard Specifications.
 3. Factory weld may be substituted for Saddle Connection Detail.
 4. All work involved with grading areas, directly adjacent to the field inlet, shall be considered incidental to pay item 604(5).



- PIPE HANDRAIL NOTES
1. Sleeve joints shall be provided between every third post.
 2. Pipe Handrail sections may be cut and post spacings may vary as directed by the Engineer.
 3. Pipe Handrail sections shall be shop bent to match the back of sidewalk radii. Shop bends shall be made before galvanizing.

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