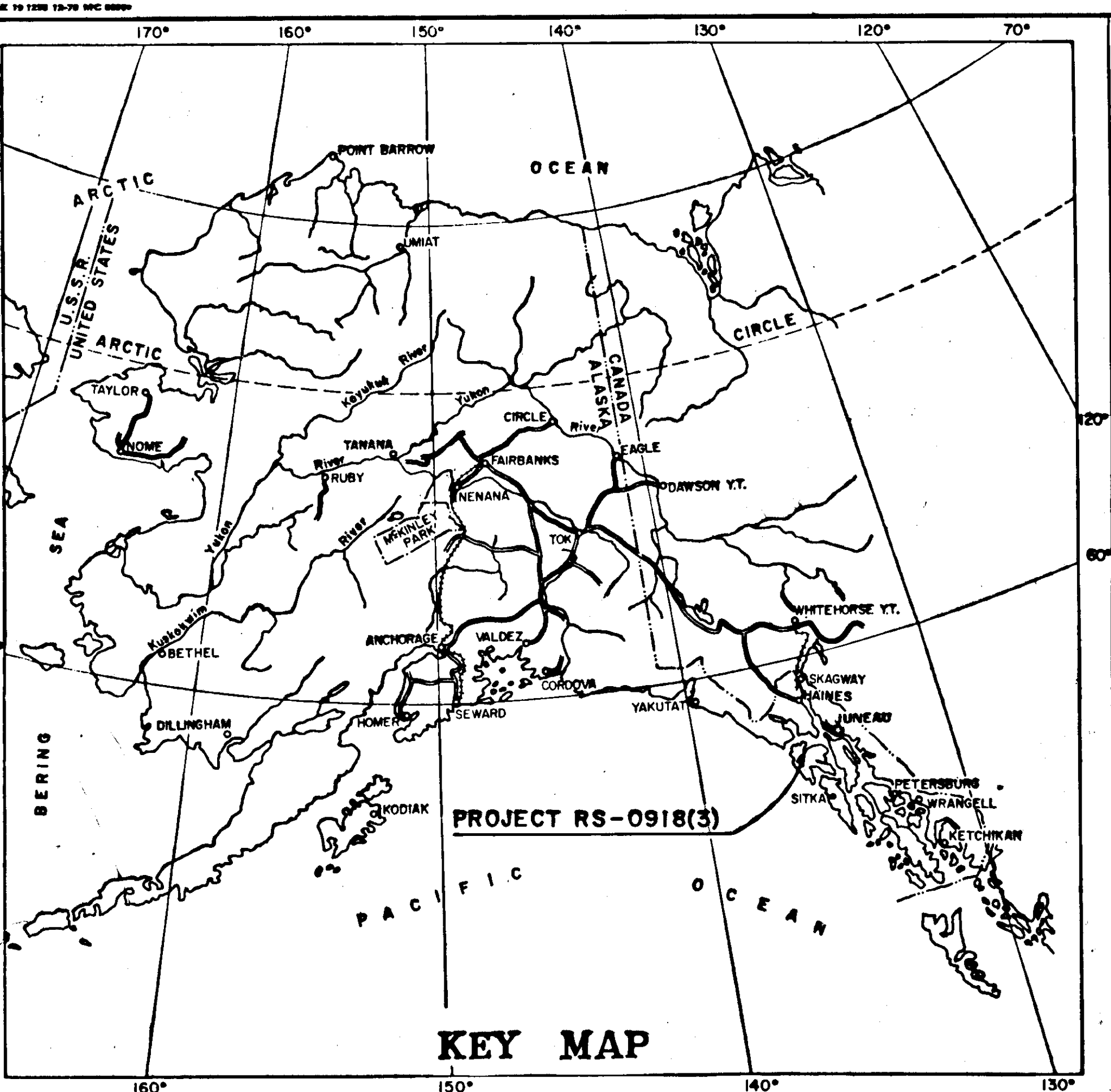




STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT RS-0918(3) 67454 HOONAH ARTERIAL HOONAH SEAFOODS TO WHITE ALICE ROAD GRADING, PAVING & DRAINAGE

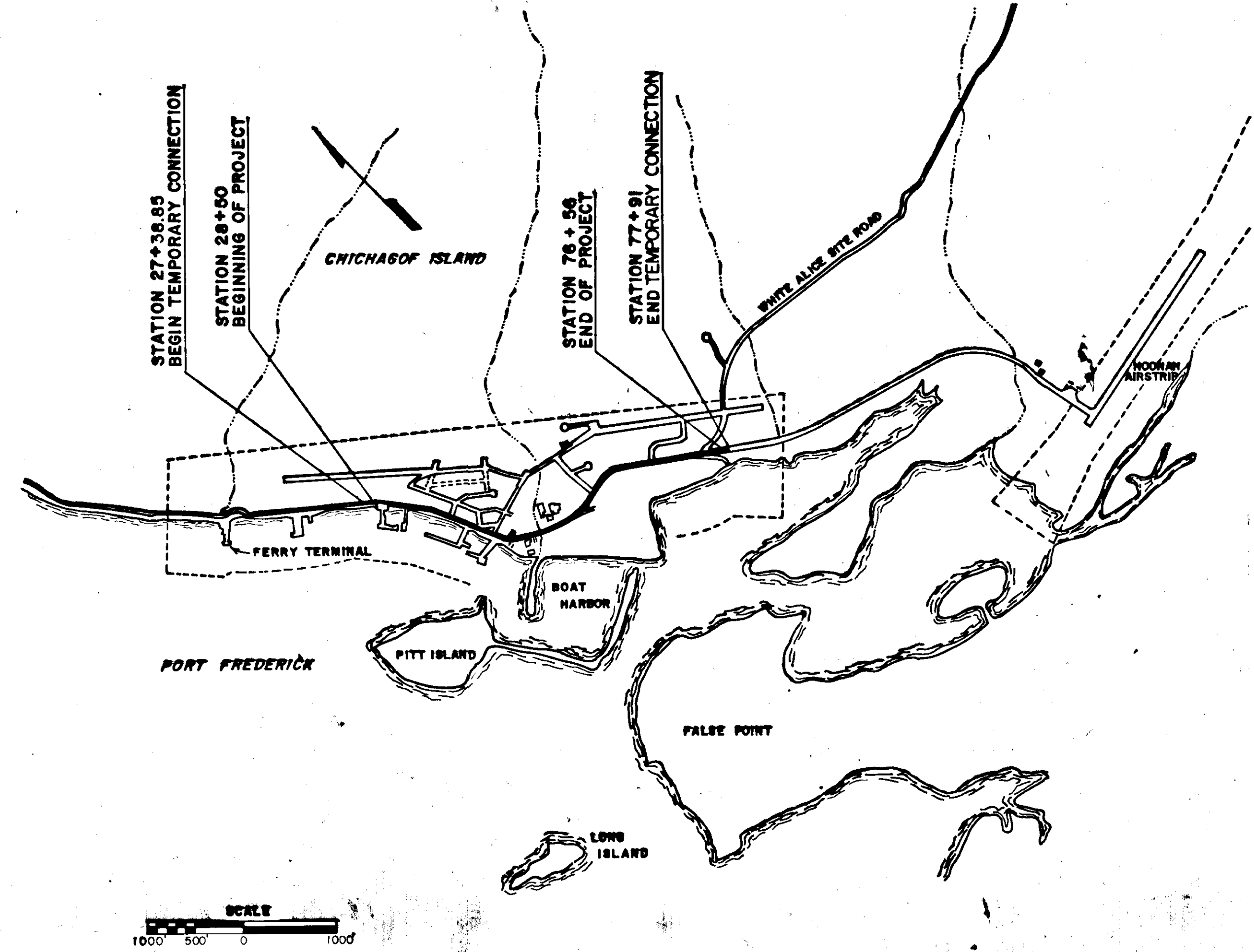
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	1	38

SHT. NO.	INDEX OF SHEETS
1	TITLE
2	TYPICAL SECTION
3	ESTIMATE OF QUANTITIES
4-7	SUMMARY TABLES
8	SIGNING AND STRIPING
9	MISCELLANEOUS DETAILS
10	INTERSECTION DETAILS
11	STORM DRAIN EXTENSION
12-20	PLAN AND PROFILE SHEETS
21-26	STRUCTURES
27	HOONAH CITY HALL MODIFICATIONS
29-38	ELECTRIC POWER RELOCATION

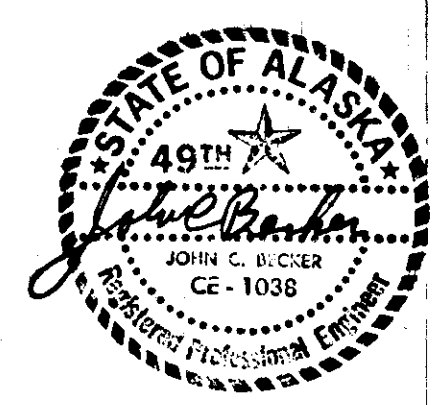
THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT:
A-1, C-0102, C-02.00, C-03.01, D-01.01, D-04.10, D-05.10, D-20.01, D-23.00, D-24.00, D-26.01, G-04.02S, G-04.02W, G-14.03S, G-14.03W, G-18.01, I-20.01, M-05.00, M-18.00, S-00.00, S-05.00, S-30.01, T-21.01, U-03.00

DESIGN	DESIGNATION
ADT (1983)	883
ADT (2002)	1309
DHV (16 %)	209
D	60-40
% T	5%
V: (28+50 to 65+00)	20
V: (65+00 to 76+56)	30
T.I.	6.5

PROJECT SUMMARY	
WIDTH OF PAVEMENT	27.5', 28' & 32'
LENGTH OF PAVEMENT	4805.70' = 0.910 MI.
LENGTH OF GRADING	4805.70' = 0.910 MI.
LENGTH OF PROJECT	4805.70' = 0.910 MI.
LENGTH OF TEMPORARY CONNECTIONS	246.15' = 0.045 MI.

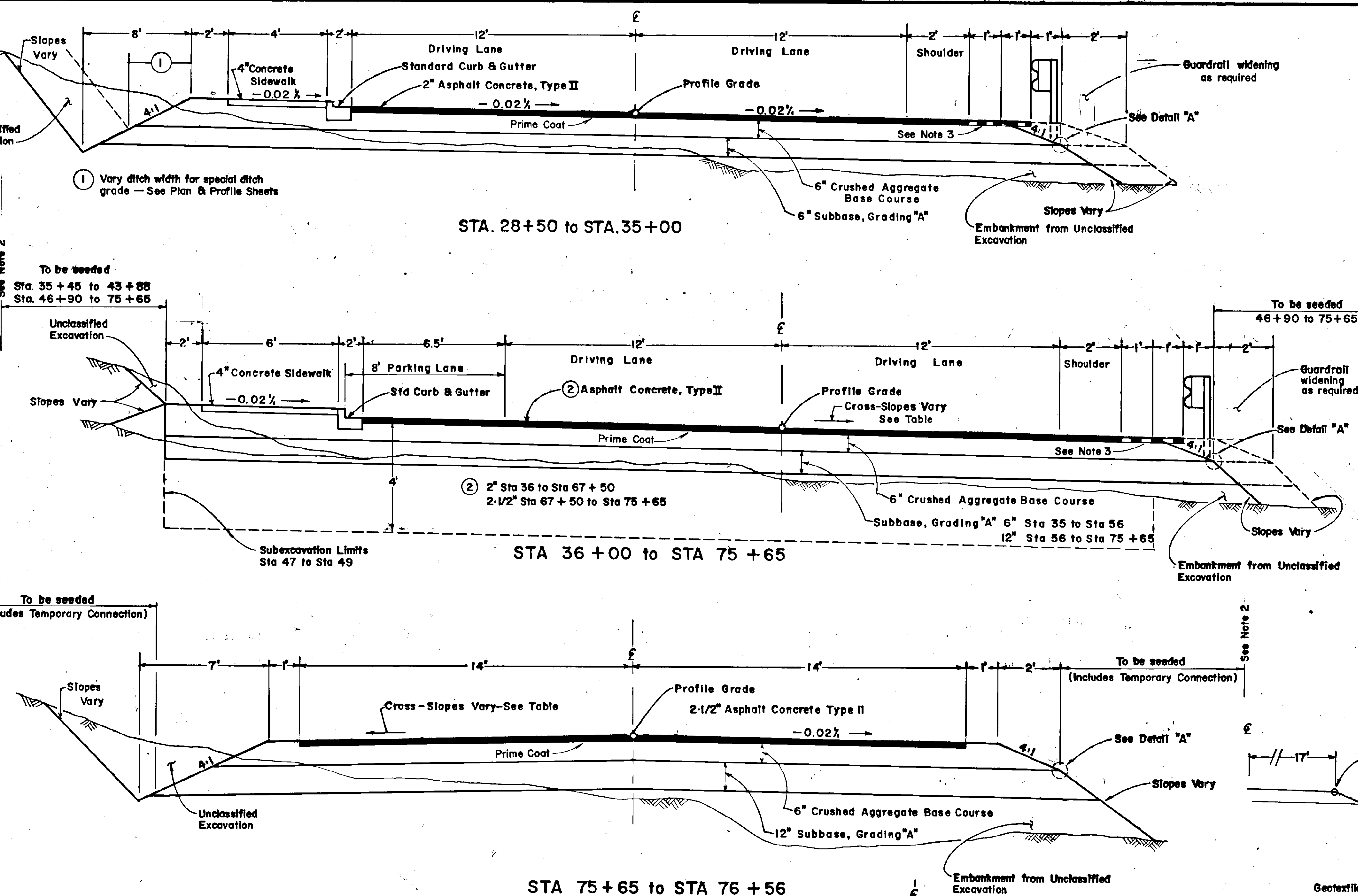


As-Builts Plans
Cont-Northern Timber Corp.
Project Engineer-Larry Geise
Construction Began Sept. 1988
Construction End.



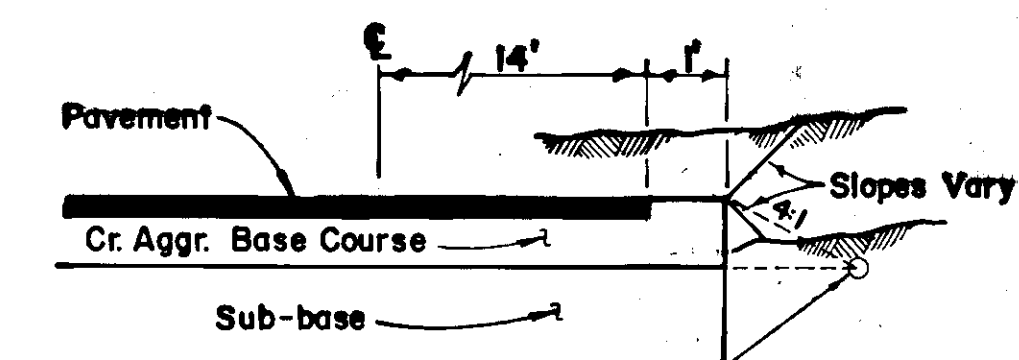
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
James H. Maxwell P.E. Date 4-26-88

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
APPROVED
D. Duckmeijer Date 4-26-88



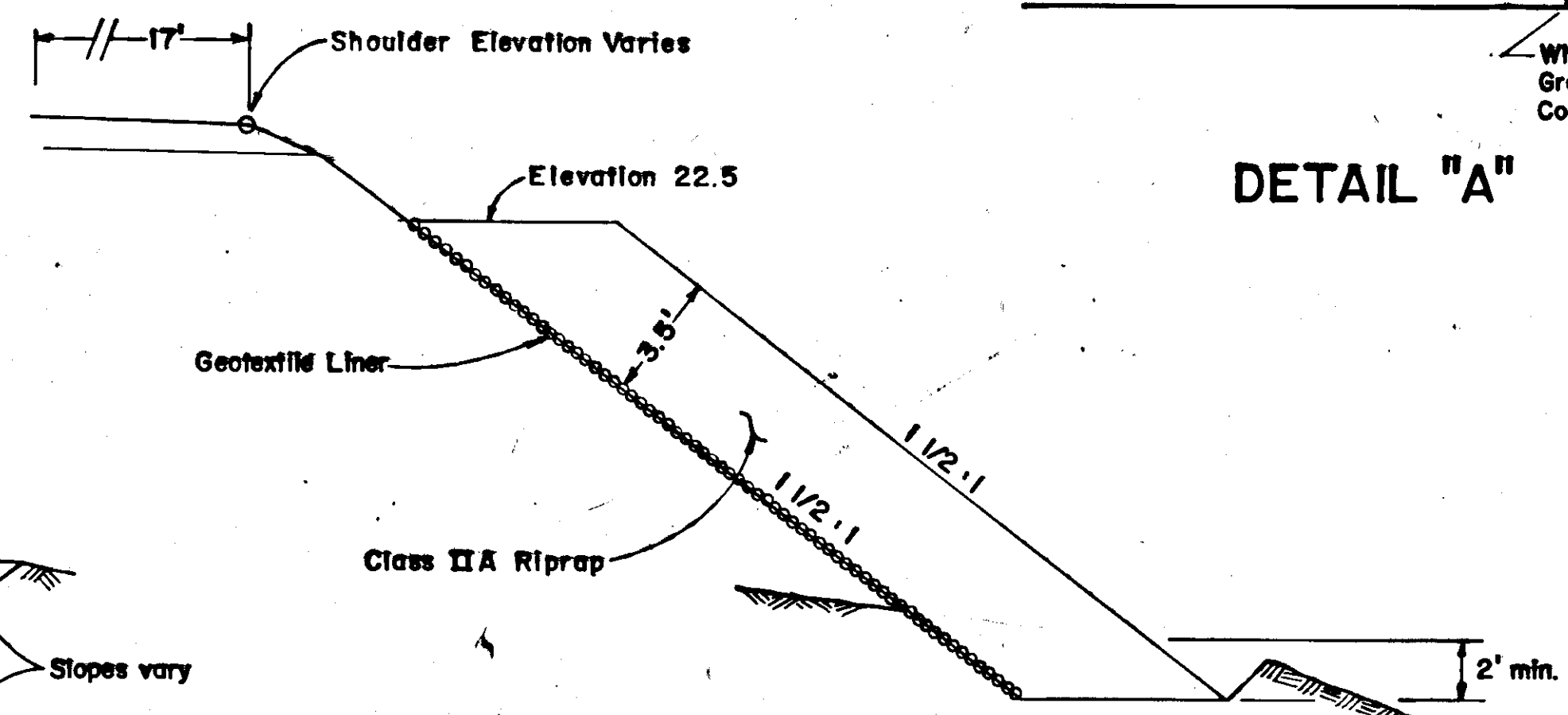
STATION to STATION	PARKING LANE	DRIVING LANE	DRIVING LANE
35 + 00 to 44 + 84.4	-0.02%	-0.02%	-0.02%
44 + 84.4 to 45 + 84.4	TRANSITION		
45 + 84.4 to 47 + 54.0	-0.02%	-0.02%	-0.02%
47 + 54.0 to 48 + 54.0	TRANSITION		
48 + 54.0 to 50 + 33.3	-0.02%	-0.02%	-0.02%
50 + 33.3 to 51 + 33.3	TRANSITION		
51 + 33.3 to 57 + 87.2	-0.02%	-0.02%	-0.02%
57 + 87.2 to 58 + 87.2	TRANSITION		
58 + 87.2 to 60 + 00.0	-0.02%	-0.02%	-0.02%
60 + 00.0 to 61 + 00.0	TRANSITION		
61 + 00.0 to 74 + 00.0	-0.02%	-0.02%	-0.02%
74 + 00.0 to 75 + 00.0	TRANSITION		
75 + 00.0 to 76 + 56.0	-0.02%	-0.02%	-0.02%
76 + 56.0 to 77 + 40.0	TRANSITION		
77 + 40.0 to 77 + 91.0	-0.02%	-0.02%	-0.02%

Cross slope transition rotation point is at centerline.



When this Point is Below Existing Grade, End Cr. Aggr. Base Course & Sub-base as Shown.

DETAIL "A"



RIPRAP DETAIL

Sta. 33 + 70 to 40 + 80 Rt.
Sta. 42 + 90 to 44 + 75 Rt.

CURB AND GUTTER DETAIL (RIGHT SIDE)

Not to Scale

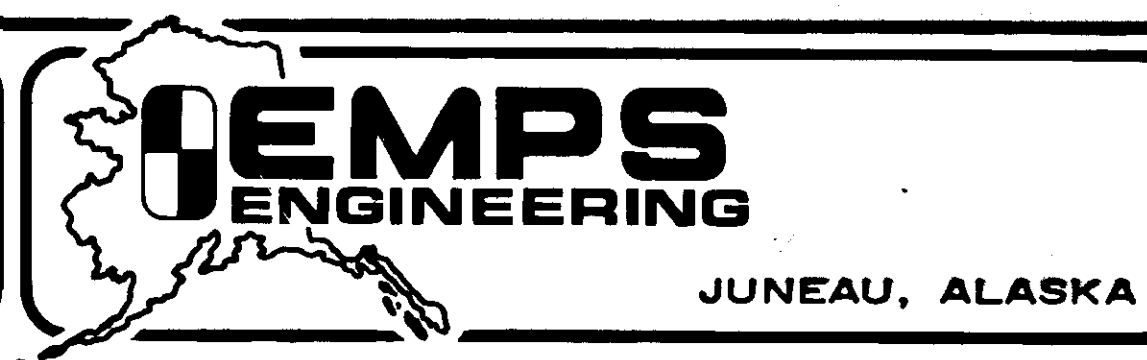
NOTES:

- SEE SHEET 5 FOR CUT & FILL SLOPE SCHEDULE.
- SEEDING LIMITS EXTENDED OUTWARD TO CONSTRUCTION LIMITS.
- WIDEN PAVEMENT 2' FOR ALL GUARDRAIL. CONSTRUCT 37.5 FEET TRANSITION TAPER OPPOSITE GUARDRAIL FLARE. SEE STD. DWG. G-14.03, EXCEPT FOR GUARDRAIL BETWEEN STA. 52+20 TO STA. 52+80 RT. TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
- USE STA. 28+50 TO STA. 35+00 STRUCTURAL SECTION FOR TRANSITION BETWEEN STA. 35+00 & 36+00.

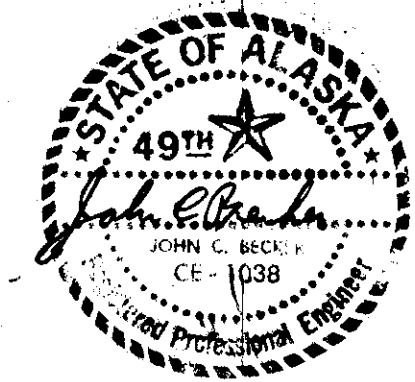
2/88	MB	CHANGED BEGINNING STATION & NOTE #3
DATE	BY	REVISION

PROJECT RS-0918(3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: JCB
Dwn: SEGM
Chkd: JCB
Date:
Ref:
SCALE: NONE



TYPICAL SECTIONS



Sheet
2 of 38
Proj. No. 711

ESTIMATE OF QUANTITIES												
ITEM NO.	ITEM	UNIT	SHEET NUMBERS								TOTALS	
			12	13	14	15	16	17	18	19		20
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	M.Hr.										1200
114 (1)	Construction Surveying by the Contractor	L.S.										All Required
115 (1)	Traffic Control	L.S.										All Required
115 (2)	Construction Signs	S.F.										394
115 (3A)	Barricades, Type II	Each										10
115 (3B)	Barricades, Type III	Each										15
115 (8)	Cones	Each										40
116 (1)	Furnishing and Maintaining Field Office	L.S.										All Required
116 (2)	Furnishing and Maintaining Field Laboratory	L.S.										All Required
201 (2B)	Clearing and Grubbing	L.S.										All Required
202 (1)	Removal of Structures and Obstructions	L.S.										All Required
202 (4)	Removal of Culvert Pipe	L.F.	40	86.92	13268		360	183190	111113	200194	100	12/2
203 (3)	Unclassified Excavation	C.Y.	18801941	14291467	14231624	17751503	22612429	17792975	19363671	7501240	10871379	14300 18,229
301 (1)	Crushed Aggregate Base Course	Ton	816	1054	1252	937	1200	1391	1195	1205	616	9678 13,771
304 (1)	Subbase, Grading "A"	Ton	733	949	1102	831	1019	2308	2139	2163	1218	12462 21,201
401 (1)	Asphalt Concrete, Type II	Ton	131	215	287	198	244	270	262	340	216	2163 2,777.7
401 (2)	Asphalt Cement, AC-5	Ton	7.8	12.9	17.2	11.9	14.6	16.2	15.7	20.4	129	129.6123.07
403 (2)	MC-30 Liquid Asphalt for Prime Coat	Ton	1.16	1.91	2.54	1.76	2.17	2.40	2.32	2.42	1.57	18.25 11.22
501 (1)	Class A Concrete	L.S.										All Required
503 (1)	Reinforcing Steel	L.S.										All Required
506 (1)	Treated Timber	L.S.										All Required
551 (1)	Geotextile Riprap Liner	S.Y.		1295	857							2452 1801.3
603 (22-12)	12 Inch Pipe	L.F.			8							8
603 (22-18)	18 Inch Pipe	L.F.		32 34	126 150	385 334	132 134	536 418	166 177	340 344		1712 1591
603 (22-24)	24 Inch Pipe	L.F.	54	80	124	163 152		132	223 210	58	72	746 882
603 (22-36)	36 Inch Pipe	L.F.						197 386				197 386
603 (22-54)	54 Inch Pipe	L.F.					360					360
603 (27)	Pipe Arch, -29 x 48 Inch 28 x 20 Inch	L.F.	57	54						148 142		259 253
604 (1)	Storm Sewer Manhole	Each			1			2		1		4 3
604 (3)	Reconstruct Existing Manhole	Each				31	3	4	2 1	1 2		12 11
604 (4)	Adjust Existing Manholes	Each	1	2 3	2			2	1 2	1	1	9 12
604 (5A)	Inlet, Type "A"	Each		1	1	4	2	3	2	2		74 15
604 (5B)	Inlet, Field	Each	2	3	4			2 3	2	2 3		15 17
606 (1)	Beam Type Guardrail, Type I Post	L.F.		547 52	378 1915		62.5					9875 775
606 (6)	End Anchorages	Each		13	31		2					6 5
608 (1-4)	Concrete Sidewalk, 4 Inch Depth	S.Y.	294	392	309	329	308	321	359	256	101	2662 2644
608 (1-6)	Concrete Sidewalk, 6 Inch Depth	S.Y.		13		41	70	69	28	82	13	316 669
609 (2)	Curb and Gutter, Type 1 or 2	L.F.	734	724	717	820	632	634	581	554	218	5614 6594
611 (1)	Riprap, Class IIA	C.Y.		1071	720							1784 1971.9
614 (1)	Survey Monuments	Each	3	3	5	4	8	3	1		1	28
614 (2)	Monument Cases	Each	1	3	3	4	3	2	1		1	18
615 (1)	Standard Sign	S.F.	20.00	5.33	17.33	3.00	4.00	9.33	6.00	17.25	16.38	98.62 152.2
618 (1)	Seeding	MSF		0.5	0.8	3.0	4.9	5.9	7.1	5.9	4.1	34.6 26.5
618 (4)	Water for Maintenance	M.Gal.										14 0
625 (1)	Pipe Hand Rail	L.F.					17					17 0
627 (1)	Watering	M.Gal.										60 54.6
628 (5)	Fire Hydrant Adjustment	Each					1					1 2
628 (7)	Fire Hydrant Relocation	Each	2		2	1						5
628 (11)	Adjustment of Valve Box	Each	4	3	3	6	7	11	1	3	1	99 43
629 (1)	Fuel Line Removal and Installation	L.S.										All Required
635 (1)	Insulation Board	MBM	2.49	1.63	4.81	2.26	6.34	3.49	1.51	.44	2.75	25.72 7.07
639 (1)	Approaches	Each	3	1	1	1	5	5	3	6		26** 24
670 (6)	Thermoplastic Pavement Markings	L.S.										All Required
681 (1)	Electrical Power Relocation	L.S.										All Required
* 112 (1)	Training Program	M.H.										1000

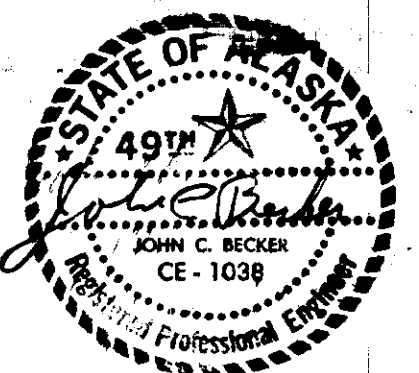
BASIS OF ESTIMATE	
ITEM	FACTOR
301 (1)	1.98 Tons/Cu. Yd.
304 (1)	1.94 Tons/Cu. Yd.
401 (1)	110 Lbs./Sq. Yd./In. Depth
401 (2)	6% of 401 (1)
403 (2)	0.25 Gal./Sq. Yd.; 256 Gal./Ton

ESTIMATED EMBANKMENT QUANTITIES	
SHEET	CUBIC YARDS
12	5
13	2980
14	870
15	1130
16	35
17	110
18	150
19	255
20	80
TOTAL	5615

Item's Initiated by	Extra Work Orders	UNIT	QUANTITIES
1	68(KIA) Electric Power Relocation	L.S.	All Req'd
2	68(IIB) Connect Local Services	L.S.	All Req'd
3	114(IA) Control Travers	L.S.	All Req'd
4	68(IC) Service Pole Revision	L.S.	All Req'd
5	603(30) Subd'ain Modifications	L.S.	All Req'd
6	506(10) Russian Orthodox Church Cribbing	L.S.	All Req'd
7	203(10) Rock Retaining Wall Russian Orthodox Church	L.S.	All Req'd
8	605(10) 4" P.V.C. Pipe	L.S.	All Req'd
9	605(11) 8" P.V.C. Pipe & Field Inlet	L.S.	All Req'd
10	114(1B) Adjustment For Const. Surveying By The Contractor	L.S.	All Req'd
11	501(10) Concrete Retaining Wall Russian Orthodox Church	L.S.	All Req'd
12	203(20) Roadway Modifications	L.S.	All Req'd
13	501(11) Concrete Stairs	L.S.	All Req'd
14	506(11) Building Modifications	L.S.	All Req'd
15	607(10) 3' Chain Link Fence	L.S.	All Req'd
16	607(11) 5' Chain Link Fence	L.S.	All Req'd
17	618(10) Additional Fertilizer	L.S.	All Req'd
18	605(3) 8" Perforated Pipe Underdrain	L.S.	All Req'd
19	604(20) Water & Sewer Adjustments	L.S.	All Req'd
20	604(10) 72" Manhole	Each	1
21	603(27) 28" X 20" Pipe Arch	L.F.	259
22	201(5) Selective Tree & Slide Removal	L.S.	All Req'd
23	501(1A) Additional Class A Concrete	L.S.	All Req'd
24	503(1A) Adjusted Reinforcing Steel	L.S.	All Req'd
25	203(11) Rock Retaining Wall Extension	L.S.	All Req'd
26	616(6) Standard Signs Purchase	L.S.	Req'd

NOTE: WHEN SHEETS OVERLAP, QUANTITIES ARE CALCULATED FOR THE 1st SHEET THAT THEY APPEAR ON.

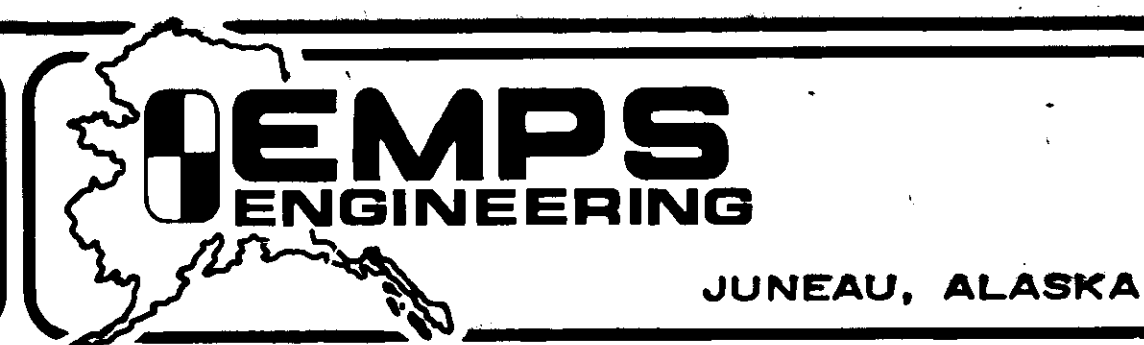
** 1 APPROACH IS INCLUDED TO ACCOMMODATE NEW IMPROVEMENTS ON THE PROJECT.



17/88	P.B.	CHANGED ITEM 639 (1) & ADDED ** NOTE
2/88	M.B.	CHANGED ITEM 603 (22-18), 603 (22-24), 603 (27), 606 (1), 606 (6), 608 (1-4), 608 (1-6)
9/88	M.B.	CHANGED ITEM 639 (1), 606 (1), & 606 (6), 603 (27), 604 (5A), & 609 (2)
5/87	M.B.	CHANGED ITEM 603 (27), 603 (1-6) & 608 (1-4)
17/87	M.B.	CHANGED ITEM 603 (22-18), 603 (22-24), 604 (5A), & 604 (5B), 606 (1), & 606 (6)
1/87	M.B.	CHANGED ITEM 603 (22-36) & ITEM 604 (1) SHEET 17
2/87	EMPS	CHANGED ITEM 603 (22-48) TO 603 (22-54)
10/88	W.D.A.	ADDED ITEM 112 (1); ADDED EMBANKMENT QUANTITIES
27/87	W.D.A.	CHANGED ITEMS 301 (1), 603 (22-18), & 603 (22-36) SHEET 17
ATE	BY	REVISION

PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Desgn: J.C.B.
Drawn: —
Chkd: J.C.B.
Date: APR. 1987
Ref.:
SCALE: NONE



ESTIMATE OF QUANTITIES

Sheet
3 of 38
Proj.
No. 711

CONSTRUCTION SIGNING SUMMARY				
TYPE	QUANTITY	LEGEND	SIZE	TOTAL AREA-S.F.
M4-9L	4	DETOUR	30"x24"	20
M4-9R	4	DETOUR	30"x24"	20
R11-2	4	ROAD CLOSED	48"x48"	40
W20-1	2	ROAD CONSTRUCTION 1500 FT	48"x48"	32
W20-2	2	DETOUR 1000 FT	48"x48"	32
W20-3	4	ROAD CLOSED 500 FT	48"x48"	64
W20-4	4	ONE LANE ROAD 1000 FT	48"x48"	64
W20-7a	4	Flagger Symbol	36"x36"	36
	4	500 FT	24"x18"	12
W22-1	2	BLASTING ZONE 1000 FT	48"x48"	32
W22-2	2	TURN OFF 2-WAY RADIO	42"x36"	21
W22-3	2	END BLASTING ZONE	42"x36"	21

CURB AND GUTTER SUMMARY			
LEFT SIDE		RIGHT SIDE	
LOCATION	LENGTH	LOCATION	LENGTH
28+39 to 38+59.36	1029.36	28+88 to 30+08	120.18
PARK AVE. INTERSECTION	74.78	30+29 to 31+16	90.88
39+28.43 to 42+35.50 42+59	331.309	31+48 to 31+90 32+48	100.42
MARINE WAY INTERSECTION	153.168	32+01 to 32+46	45
43+37.19 to 44+30.69	94	32+99 to 33+63	64
HILL AVE. INTERSECTION	76.78	41+85 to 42+55	69.70
45+06.70 to 59+54.37	1430.149	43+81 to 46+64	107
RAVIN DR. INTERSECTION	75	48+76 to 50+37	160
60+23.51 to 68+34.40	832.812	43+48 to 50+53	705.693
SEE ST. INTERSECTION	75	58+82 to end of Lembeh Dr.	145
69+04.40 to 75+25.47 75+01	597.621	60+14 to 63+25	311
W. ALICE RD. INTERSECTION	78.76	68+20 to 69+36	116

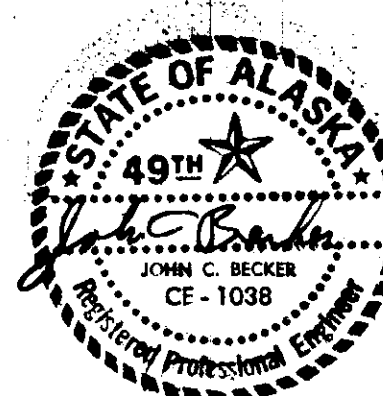
4855 759 TOTAL=5,614
4844 1720 TOTAL=5,564

PROJECT CONTROL					
TRAVERSE POINTS			CENTERLINE POINTS		
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
HN-2	49,049.96	61,374.17	*PI 28+94.76	48,903.63	61,500.76
HN-3	48,284.88	61,906.08	PI 35+15.77	48,380.16	61,834.68
HN-4	47,344.72	62,207.85	PI 38+79.51	48,043.08	61,971.95
HN-5	47,025.26	62,555.58	PI 42+51.10	47,692.45	62,095.06
HN-6	46,797.52	63,056.22	PI 46+76.39	47,276.98	62,186.58
HN-7	46,896.58	63,476.29	PI 49+19.95	47,147.82	62,407.54
HN-8	46,859.37	63,744.76	PI 52+38.93	46,956.52	62,665.39
HN-9	46,065.91	64,725.80	PI 56+79.10	46,795.46	63,076.79
			PI 62+89.94	46,909.16	63,684.87
			PI 74+54.60	46,142.24	64,596.35

*PI 27+38.85 49,015.71 61,392.50
*PI 28+39.52 48,945.02 61,494.18

GENERAL NOTES

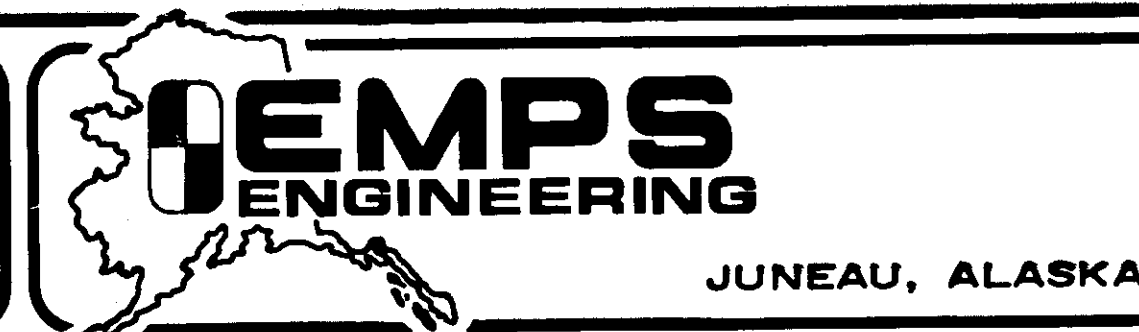
- Vertical and horizontal alignments shown on these plans are subject to minor field revisions.
- Pipe lengths and locations are approximate only and are subject to field adjustments.
- Basis of Bearings: Project bearings are based upon a line from U.S.N.O.S. monument FERRY, a 1981 brass cap located near the southeast end of the Ferry Terminal abutment wall, and U.S.N.O.S. monument RED, a 1981 brass cap located near the eastern tip of Pitt Island. The project bearing from FERRY to RED is S23° 58' 20.7"E.
- Datum: Project elevations are based upon U.S.C. & G.S. Bench Mark 8, a standard disc stamped "NO 8 1938" set in a large boulder about 48 feet northwest of a path and 190 feet northeast of the first point south of the Icy Straits Salmon Company Cannery. Project elevation is 16.05 feet.
- The locations of underground utilities shown on these plans are based upon "as-built" and design plans obtained from various agencies. Water lines and sanitary sewer force mains generally have a minimum depth of cover of 4 feet. Before excavating in the vicinity of buried utilities the Contractor shall ascertain the actual location of such utilities, and shall take all necessary steps to protect them.
- Clearing & grubbing limits shall be to 10 feet beyond the slope limits or to the right-of-way, easement or permit line, whichever is less. Additional area for the power line relocation shall be cleared as required but need not be grubbed.
- From Station 47 to Station 49 sub-excavation to 4 feet below finished grade is required. The Engineer may extend these limits. All old trestle remnants shall be disposed of by the Contractor. Piling shall either be pulled or cut off a minimum distance of 6 feet below finished grade. Excavated material free of timber material and organics may be used for embankment construction. Removal and disposal of trestle remnants shall be a part of Bid Item 202(1).
- The Contractor shall remove and stockpile the riprap in place at the ends of the existing twin 48 inch culverts at approximate Station 50 + 70. After installation of the new culverts the riprap shall be replaced at the culvert ends. This will not be paid for directly, but will be considered incidental to other bid items.
- Between approximate Stations 33 + 50 and 45 + 00 the Contractor shall remove and dispose of all old timbers below the road from old cribbing, retaining walls and other structures. Removal of timbers and other debris shall be a part of Bid Item 202(1).
- All approaches, driveways and intersecting streets and roads shall be constructed with the same structural section as shown on the Typical Sections for the adjacent main roadway, except that the limits of paving and curb and gutter shall be as shown on Sheet 9, 10 or the plan and profile sheets.
- The Contractor shall survey the right-of-way Road Limits (each corner) for Parcel 73 owned by Mr. Greenwald, between approx. stationing 60+70 Rt. and 61+80Rt. This work shall be accomplished after the slope limits have been constructed.
- Due to renovation, new construction, or demolition, electrical services at Hoonah Seafoods will have changed by the time this project is bid. It is the Contractor's responsibility to include these changes in his bid. Reconstruction of facilities at Hoonah Seafoods is scheduled for completion by August 1, 1988. The freezers and other facilities will need to remain in the highway Right-of-Way prior to this date. The Contractor shall include working around these facilities till August in his bid.
- Relocation of two power generators and shed right of approximate station 45+60 with Hoonah Cold Storage is scheduled for relocation by August 1, 1988. The shed, foundation and plants need to remain in the Right-of-Way prior to this date. The Contractor shall include working around these facilities till August in his bid.



DATE	BY	REVISION
4/26/88	MB	ADDED NOTES 11 & 12
3/2/88	MB	DELETED STA. 52+28 to 52+84 CURB & GUTTER SUMMARY
3/9/88	MB	CHANGED CURB & GUTTER SUMMARY, STA. 28+88 to 29+85 and STA. 52+28 to 52+84

PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: J.C.B.
Drawn: —
Chkd: J.C.B.
Date: APR. 1987
Ref.:
SCALE: NONE



SUMMARY TABLES

Sheet
4 of 38
Proj.
No. 711

APPROACH SUMMARY

STATION	SIDE	TYPE	WIDTH	REMARKS
30+20	Rt.	C	24	Match existing dock
31+95	Rt.	C	14	
32+95	Rt.	C	12	Match existing dock
36+10	Lt.	B	14	
41+45	Rt.	C	14	Match existing dock
45+46	Rt.	C	14	Match existing pavement
46+75	Lt.	A	36	
49+90	Lt.	A	14	Match existing shop floor
50+85	Lt.	A	14	
50+90	Rt.	C	23	
* 53+85	Rt.	C	14	
54+33	Rt.	C	14	
54+80	Lt.	B	20	
55+14	Lt.	B	14	Curb cut only - no grading
55+40	Lt.	B	20	
55+95	Rt.	C	14	
56+65	Rt.	C	14	
57+10	Lt.	B	14	
57+35	Rt.	C	18	
58+10	Lt.	B	14	
58+40	Lt.	B	14	
59+00	Lt.	A	14	
"C" 11+12	Rt.	C	14	Gravel approach on Beach Road
61+07	Lt.	B	20	
61+54	Rt.	C	14	
62+30	Rt.	C	20	
63+05	Rt.	C	14	
63+60	Lt.	B	14	
64+60	Rt.	C	14	
64+65	Lt.	B	16	
67+60	Rt.	C	15	
69+40	Lt.	B	14	
69+60	Rt.	C	20	
70+00	Lt.	A	16	
70+50	Rt.	C	20	
71+00	Lt.	B	14	
71+70	Lt.	A	14	
72+10	Rt.	C	20	
72+70	Lt.	B	14	
72+90	Rt.	C	14	
73+20	Rt.	C	17	
73+55	Lt.	B	15	
73+98	Rt.	C	20	
74+20	Lt.	A	14	
* 51+22	Lt.	A	14	
* 52+14	Rt.	C	14	
* 28+62	Rt.	C	52	
42+75	Lt.	C	16	
49+95	Rt.	C	18	
60+50	Rt.	C	18	

NOTE: SEE SHEET 9 FOR APPROACH DETAILS.

* OUT OF SEQUENCE

MONUMENTS AND CASES

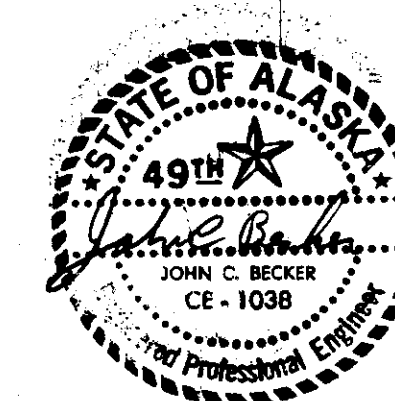
STATION	SIDE	MON.	CASE	POINT
28+37.52	**	1		R/W
29+39.34	On C.L.	1	1	P.T.
30+49.13	45.00' Lt.	1		R/W
34+21.18	On C.L.	1	1	P.C.
36+09.85	On C.L.	1	1	P.T.
37+99.20 Ah.	On C.L.	1	1	P.C.
39+59.80	On C.L.	1	1	P.T.
41+95.63	On C.L.	1	1	P.C.
42+04.41	28.50' Lt.	1		R/W
42+44.84	28.50' Lt.	1		R/W
43+06.43	On C.L.	1	1	P.T.
45+51.02	On C.L.	1	1	P.C.
47+87.37	On C.L.	1	1	P.T.
48+78.76	On C.L.	1	1	P.C.
49+57.06	On C.L.	1	1	P.T.
51+00.01	On C.L.	1	1	P.C.
51+89.24	42.00' Lt.	1		R/W
51+93.55	16.00' Rt.	1		R/W
52+85.40	16.00' Rt.	1		R/W
53+76.23	On C.L.	1	1	P.T.
54+89.03	16.00' Rt.	1		R/W
54+99.24	28.50' Lt.	1		R/W
55+29.89	On C.L.	1	1	P.C.
58+20.53	On C.L.	1	1	P.T.
60+89.01	On C.L.	1	1	P.C.
60+90.70	28.50' Lt.	1		R/W
64+64.33	On C.L.	1	1	P.T.
74+45.60	On C.L.	1	1	P.I.

74+54.60
** BEARING = N.46°06'54"E. DISTANCE = 34.10' A

SLOPE SCHEDULE

LEFT		STATION	RIGHT		LEFT		STATION	RIGHT	
CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL
1: 1		27+39	4: 1		4: 1		56+82		4: 1
0.5: 1		28+37		2: 1	2: 1		57+30		4: 1
0.5: 1		28+88		4: 1	2: 1		57+80		4: 1
0.5: 1		29+39		4: 1	2: 1		58+29		4: 1
WALL		29+92		50: 1		4: 1	58+78		2: 1
WALL		30+42		2: 1		2: 1	59+27		2: 1
0.5: 1		30+93		4: 1		2: 1	59+76		2: 1
0.5: 1		31+46		4: 1		4: 1	60+25		2: 1
0.5: 1		31+96		4: 1		4: 1	60+76		4: 1
0.5: 1		32+46		4: 1	2: 1		61+27	4: 1	
0.5: 1		32+97		4: 1	WALL		61+78		4: 1
0.5: 1		33+48		2: 1	2: 1		62+28	-50: 1	
0.5: 1		33+97		1.5: 1	2: 1		62+78	-50: 1	
0.75: 1		34+46		1.5: 1	2: 1		63+28	4: 1	
0.75: 1		34+96		1.5: 1	2: 1		63+78		4: 1
4: 1		35+45		1.5: 1		4: 1	64+28		2: 1
	+50: 1	35+94		1.5: 1	2: 1		64+77		2: 1
	+50: 1	36+43		1.5: 1	2: 1		65+29		2: 1
	+50: 1	36+92		1.5: 1	4: 1		65+61		2: 1
	+50: 1	37+43		1.5: 1	4: 1		66+10		2: 1
4: 1		37+92		1.5: 1	2: 1		66+61		2: 1
	4: 1	38+42		1.5: 1	2: 1		67+11		2: 1
4: 1		38+91		1.5: 1	2: 1		67+61		4: 1
	4: 1	39+41		1.5: 1	2: 1		68+11		2: 1
	4: 1	39+92		1.5: 1	-----	-----	68+61		4: 1
	4: 1	40+42		1.5: 1		4: 1	69+11		4: 1
	2: 1	40+92	4: 1		2: 1		69+61		4: 1
	4: 1	41+42	-50: 1			4: 1	70+11		2: 1
	4: 1	41+92		4: 1	2: 1		70+61		4: 1
	4: 1	42+42		2: 1		4: 1	71+11		4: 1
-----	-----	42+91		2: 1		4: 1	71+61		4: 1
	4: 1	43+40		1.5: 1		2: 1	72+11		2: 1
-----	-----	43+88		1.5: 1	2: 1		72+60		4: 1
-----	-----	44+38		1.5: 1		+50: 1	73+11		4: 1
	4: 1	44+88	4: 1		2: 1		73+61		4: 1
-----	-----	45+37	4: 1			4: 1	74+11		4: 1
4: 1		45+89	4: 1			4: 1	74+53		2: 1
-----	-----	46+39	4: 1			4: 1	75+11		2: 1
4: 1		46+90	4: 1		-----	-----	75+61		4: 1
	4: 1	47+40		4: 1	2: 1		76+11		2: 1
	4: 1	47+91		4: 1	2: 1		76+61		2: 1
	4: 1	48+42		4: 1	2: 1		77+11		4: 1
	4: 1	48+90		2: 1	2: 1		77+61		2: 1
	4: 1	49+40		2: 1	NO. APPROACH BEACH ROAD				
	4: 1	50+39		2: 1	2: 1	"C" 10+25			1.5: 1
	4: 1	50+89		4: 1	1.5: 1	"C" 10+50			1.5: 1
	4: 1	51+39	4: 1		1.5: 1	"C" 10+75			1.5: 1
2: 1		51+89		2: 1	1.5: 1	"C" 11+00			1.5: 1
2: 1		52+38	2: 1						
2: 1		52+87		2: 1					
2: 1		53+37		4: 1					
2: 1		53+87		4: 1					
2: 1		54+36		4: 1					
4: 1		54+85		4: 1					
2: 1		55+35		WALL					
2: 1		55+84		4: 1					
2: 1		56+34		4: 1					

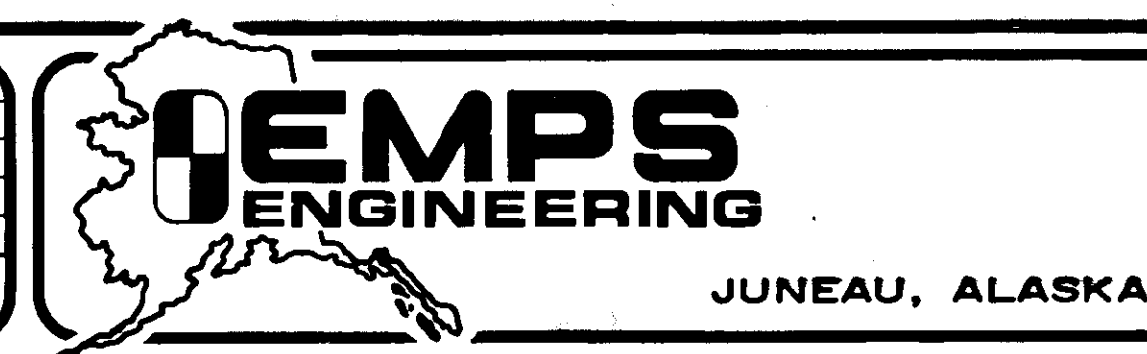
263 to 300,
doi to 458



DATE	BY	REVISION
5/2/88	M.B.	ADDED APPROACH 51+22, LT., 75+98, RT., ADDED ** NOTE TO MONUMENTS
2/25/88	M.B.	ADDED APPROACH 28+62, RT.
2/8/88	M.B.	CHANGED MONUMENT LOCATION AT STA. 28+32.8 & 29+31.2 ADDED APPROACH 52+14
10/4/87	P.B.	CHANGED BEACH ROAD STA. TO "C" 11+12
10/1/87	M.B.	CHANGED APPROACH 61+25, SEE 61+07.

PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: J.C.B.
Dwn: —
Chkd: J.C.B.
Date: APR. 1987
Ref: —
SCALE: NONE



SUMMARY TABLES

Sheet
5 of 38
Proj. No. 711

REMOVAL OF CULVERT PIPE		
STATION	LENGTH	REMARKS
29+40	40	
33+77	32	
38+83	54 60	
42+56	12 8	52' Lt.
42+61	98 62	
42+69	22 60	48' Lt.
50+67	180	
50+75	180	
59+60	40 42	
59+71	20	44' Rt.
59+85	55	26' Lt.
60+70	68	89' Rt.
64+38	72 78	
67+75	39 35	
68+72	40 46	18' Lt.
69+49	20	18' Lt.
69+95	20	19' Lt.
70+25	40 36	
71+03	20	17' Lt.
71+67	20 18	18' Lt.
72+70	20	17' Lt.
73+54	20	19' Lt.
74+18	20	18' Lt.
74+72	40	
74+74	40	

BEAM TYPE GUARDRAIL			
STATION TO STATION	SIDE	LENGTH	
33+79	40+91.5	Rt.	712.5
42+66.5	44+79	Rt.	212.5
52+20.0	52+82.5	Rt.	62.5

REMOVAL OF STRUCTURES AND OBSTRUCTIONS		
STATION	SIDE	DESCRIPTION
27+90	On CL.	Frame building
28+70	On CL.	Frame building
28+90	On CL.	Large freezer
29+10	On CL.	Large freezer
29+70	On CL.	Frame building
30+05	10' Lt.	Stairway for fueling facility, see details, sheet 21
30+90	On CL.	Frame building
33+77	11' Lt.	Drainage inlet structure
36+35 to 36+83	27' Lt.	Fence
38+83	35' Lt.	Traffic sign and post
38+84	44' Lt.	Drainage inlet structure
39+35	On CL.	Stairs to beach
40+50	7' Rt.	Stairs to beach
42+58	44' Lt.	Drainage inlet structure
44+00	On CL.	Frame building
44+32	On CL.	Two story frame building
44+53	40' Lt.	Traffic sign and post
44+60	On CL.	Frame building
45+65	9' Rt.	Building generator plant
46+40	23' Lt.	City hall entrance. See details, sheet 27
48+97	12' Rt.	Entrance to ANB hall
49+25	14' Rt.	8 ft. long woodshed
49+90	22' Lt.	Concrete driveway slab
50+80	26' Lt.	Sidewalk
50+95 to 51+90	23' Lt.	Fence
51+04	12' Rt.	Traffic sign and post
51+20	12' Rt.	Remove concrete slab to 26' Rt. CL.
52+85 to 53+65	5' - 8' Rt.	Fence lined with spruce trees
53+60	24' Lt.	Stairs. See details, sheet 22
53+91 to 54+25	7' - 9' Rt.	Fence
54+40 to 55+86	9' - 16' Rt.	Fence
55+65 to 56+00	16' - 20' Lt.	Fence
55+73	23' Lt.	Shed
55+95	18' Rt.	Small fence
55+95 to 56+50	17' - 20' Rt.	Fence
56+00	21' Lt.	Shed
56+12 to 56+95	15' - 12' Lt.	Fence
57+32	20' Rt.	Traffic sign and post
58+25 to 59+40	26' Lt.	Fence
58+32	24' Lt.	Traffic sign and post
58+44	9' Rt.	Traffic sign and post
58+63	10' Rt.	Tree
59+61	39' Lt.	Traffic sign and post
59+75	53' Rt.	Drainage inlet structure
60+70 to 60+90	12' Rt.	Logs
64+17	22' Lt.	Traffic sign and post
68+05 to 68+40	30' Lt.	Fence
68+50	23' Lt.	Traffic sign and post
68+80 to 69+43	13' - 15' Rt.	Boulders (as fence)
68+91	24' Lt.	Traffic sign and post
69+90	15' Rt.	Clump of boulders
72+30 to 72+80	17' Rt.	Fence
75+23	47' Lt.	Traffic sign and post
75+86	13' Rt.	Traffic sign and post
77+62	21' Lt.	Traffic sign and post
77+65	15' Rt.	Traffic sign and post
"CD" 10+70	On CL.	Beach road driveway. Log across road
"CD" 10+30	On CL.	Beach road driveway. Wood, planks, posts, etc.

REMOVAL OF STRUCTURES & OBSTRUCTIONS NOTES:

1. Notice has been given to individual property owners for removal of encroachments, such as fences, stairs, sheds, entryways, etc. (as noted in the table above) to be removed by July 1, 1988, or they will be removed by the Contractor. Therefore, some of the encroachments above may already be removed by the owners.

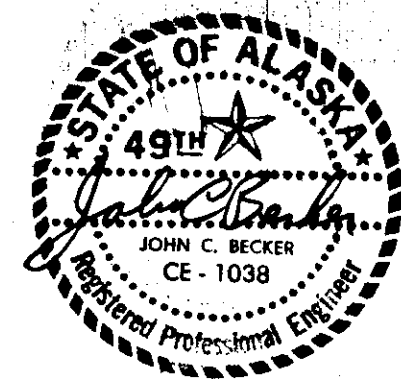
2. Care shall be used by the Contractor not to damage owner property while removing the above obstructions or encroachments, such as the entrance at the ANB hall. Any damage caused by the Contractor to property outside the State Right-of-Way shall be repaired, replaced or otherwise owner compensated.

MANHOLE ADJUSTMENT AND RECONSTRUCTION		
STATION	SIDE	REMARKS
29+01	15' 17' Rt.	ADJUST
34+04	12' Rt.	ADJUST
38+93	22' 21' Lt.	ADJUST
42+83	13' 11' Lt.	ADJUST
42+90	7' 2' Lt.	ADJUST
* 48+38	4' Lt.	RECONSTRUCT CLEANOUT
46+65	10' Rt.	RECONSTRUCT
50+10	2' Lt.	RECONSTRUCT
52+11	6' Lt.	RECONSTRUCT
53+75	4' Lt.	RECONSTRUCT
56+67	10' Rt.	RECONSTRUCT
* 55+19	6' Lt.	RECONSTRUCT CLEANOUT
58+28	7' Lt.	RECONSTRUCT CLEANOUT
59+95	2' Lt.	RECONSTRUCT
59+99	22' Lt.	RECONSTRUCT
61+22	4' Lt.	ADJUST
62+57	13' 9' Rt.	ADJUST
75+47	47' Lt.	ADJUST
64+17	On CL.	RECONSTRUCT
66+54	On CL.	ADJUST
68+57	2' Rt.	RECONSTRUCT
71+65	4' Rt.	RECONSTRUCT
73+74	On CL.	ADJUST

* OUT OF SEQUENCE

35+78	22' Lt.	ADJUST
61+02	4' Rt.	ADJUST
59+50	2' Lt.	RECONSTRUCT

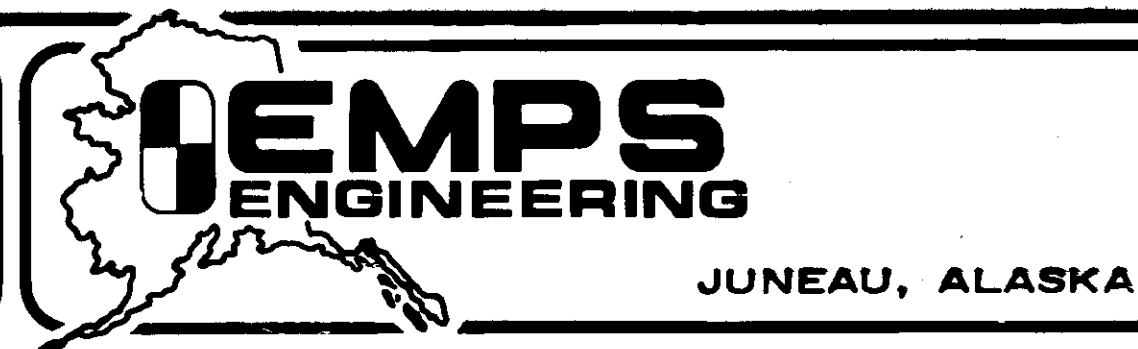
INSULATION SUMMARY		
LOCATION	SIDE	QUANTITY
27+60 to 28+70	Both	1.36 MBM
29+33	Rt.	.064 8.13 MBM
31+70 to 32+70	Both	1.00 MBM
33+04 to 33+20	Lt.	0.17 MBM
34+70 to 35+72	Lt.	1.02 MBM
38+80	Lt.	.064 8.44 MBM
40+10 to 40+70	Lt.	0.64 MBM
41+06	Lt.	.064 8.13 MBM
41+60 to 47+70	Both	6.30 MBM
50+56	Lt.	0.42 MBM
51+10 to 58+60	Both	8.30 MBM
58+95	Lt.	0.06 MBM
59+22	Lt.	0.06 MBM
59+57	Lt.	0.13 MBM
61+38 to 63+60	Both	2.08 2.18 MBM
64+24	Lt.	0.06 MBM
67+78	Lt.	0.13 MBM
68+53 to 68+69	Lt.	0.19 MBM
70+21 to 70+33	Both	0.13 MBM
70+86	Lt.	0.06 MBM
71+51	Lt.	0.06 MBM
74+78	Lt.	0.06 MBM
75+40 to 77+91	Lt.	2.69 MBM
42+71		.03 MBM
TOTAL		= 7.07 MBM



DATE	BY	REVISION
5/5/88	M.B.	CHANGED REMOVAL, M.H. ADJUSTMENT & RECONSTRUCT, & INSULATION SUMMARIES
3/3/88	M.B.	ADDED BEAM TYPE GUARDRAIL STA. 52+20 to 52+82
2/8/88	M.B.	CHANGED MANHOLE ADJUSTMENT STA 29+01

PROJECT RS-0918(3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

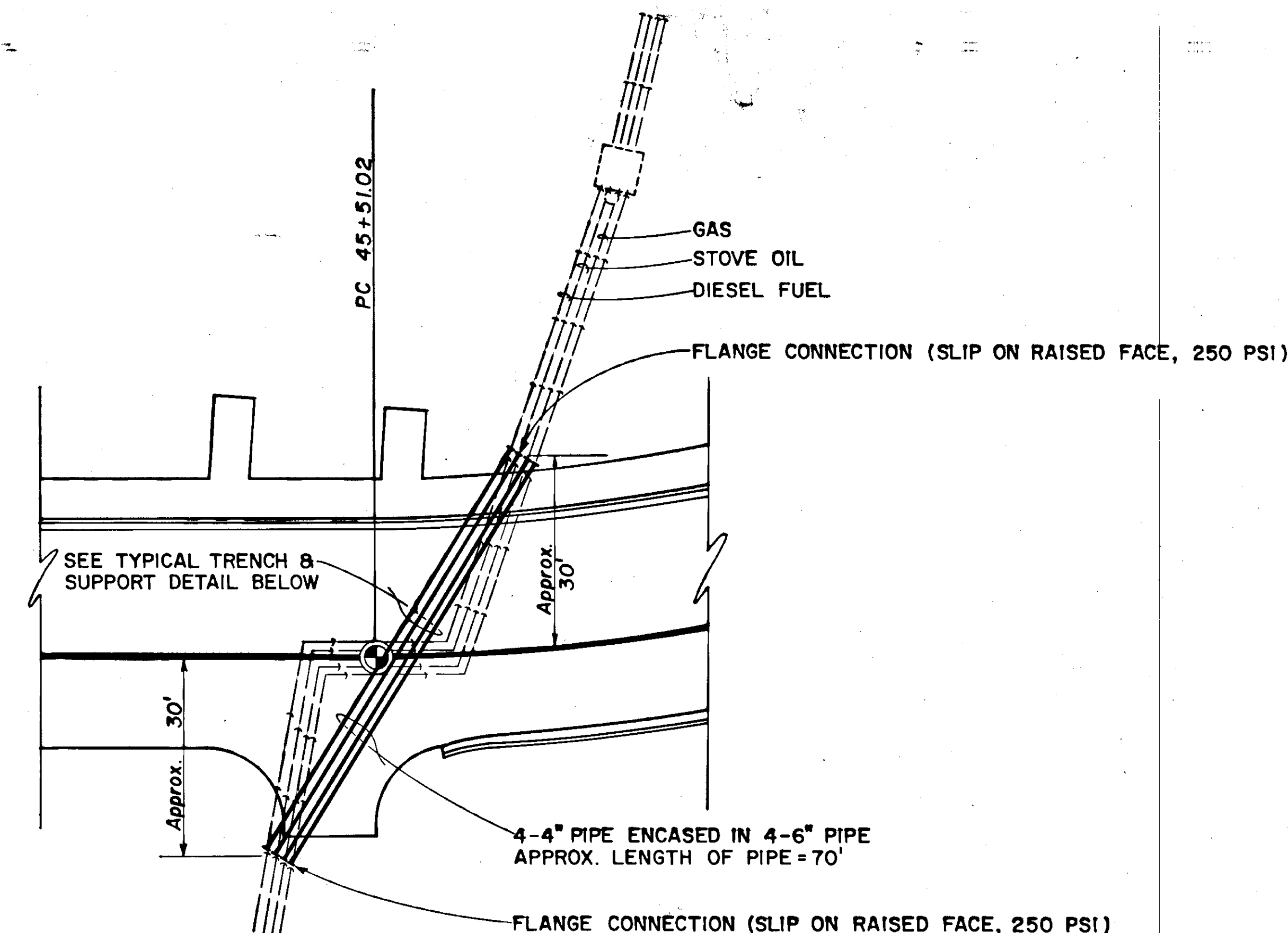
Dsgn: J.C.B.
Drwn: S.E.G.M.
Chkd: J.C.B.
Date: 8/86
Ref.:
SCALE: NONE



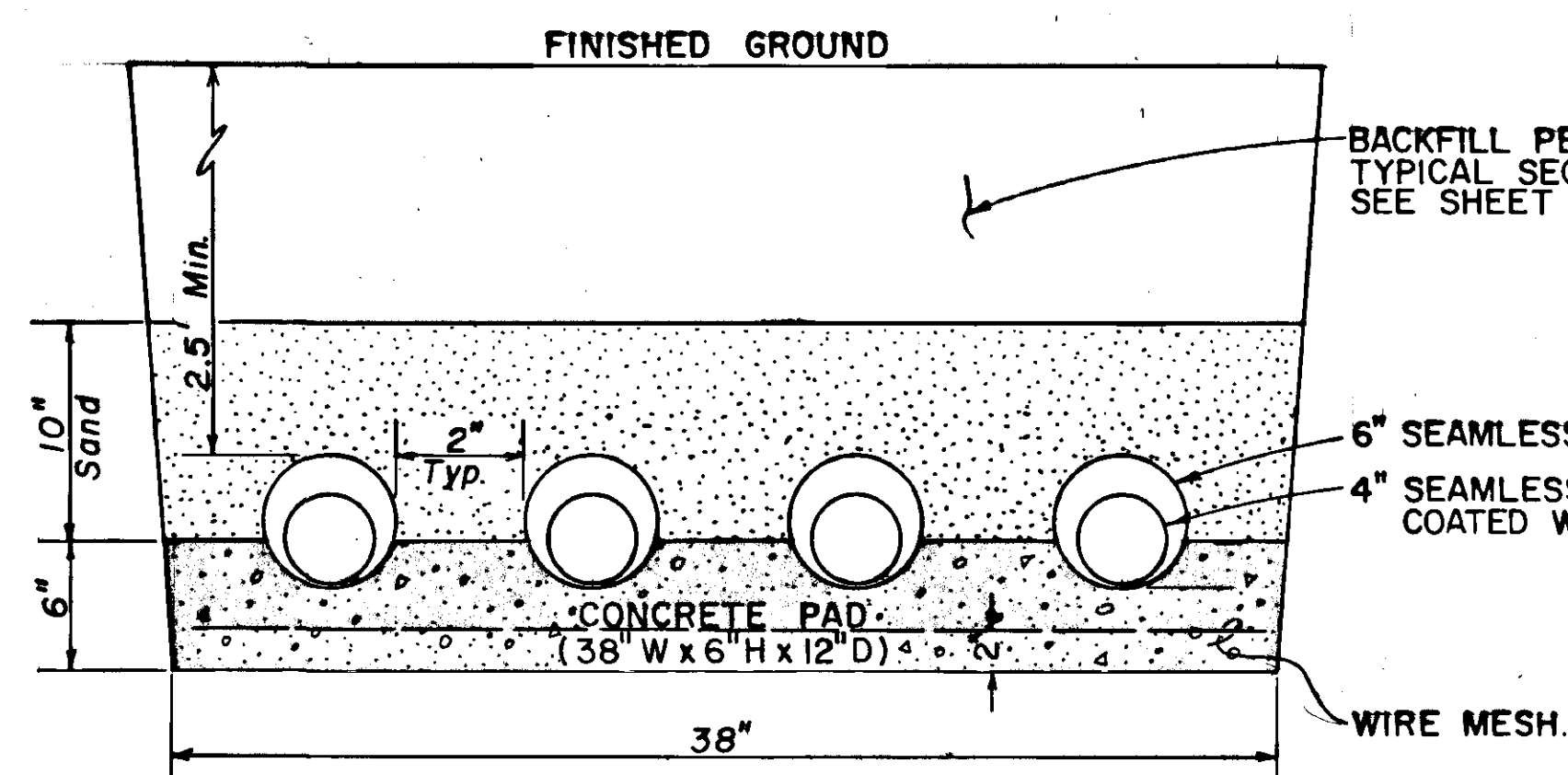
SUMMARY TABLES

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Proj.
No. 711

WATER UTILITY ADJUSTMENTS					
STATION	SIDE	FIRE HYDRANT ADJUSTMENT	ITEM FIRE HYDRANT RELOCATION	VALVE BOX ADJUSTMENT	REMARKS
31+40	15' Rt.			1	
28+28	12' Lt.			1	
28+28	14' Lt.		1		To 21' Lt. 28+55. Requires 24' DI Pipe
29+84	3' Rt.			1	
30+82	6' Lt.			1	
31+83	12' Lt.		1		To 21' Lt. Requires 9' DI Pipe
35+37	12' Lt.			1	
38+72	10' Lt.			1	
38+86	19' Lt.			1	
39+01	10' Lt.			1	
39+09	33' Lt.		1		To 37' Lt. Requires 4' DI Pipe
42+33	14' Rt.			1	Relocate behind curb.
42+77	56' Lt.		1		To 61' Lt. 42+73. Requires 7' DI Pipe
44+50	19' Lt.			1	
44+59	33' Lt.			1	
44+76	19' Lt.			1	
46+07	14' Rt.			1	
49+27	25' Lt.		1		To 31' Lt. Requires 6' DI Pipe
49+34	25' Lt.			1	
49+44	15' Rt.			1	
49+65	14' Rt.			1	Relocate behind curb
51+65	26' Lt.			1	
52+04	15' Rt.			1	
52+50	11' Rt.			1	
53+55	24' Lt.			1	
53+81	9' Rt.			1	
54+41	29' Rt.	1			
55+26	13' Rt.			1	
55+95	18' Rt.			1	
58+11	8' Rt.			1	
58+95	31' Lt.			1	
58+97	31' Lt.			1	
59+25	13' Lt.			1	
59+33	19' Lt.			1	
59+74	19' Lt.			1	
59+83	25' Lt.			1	
59+89	19' Lt.			1	
60+67	28' Rt.			1	
60+99	12' Rt.			1	
61+37	32' Lt.			1	
63+52	23' Lt.			1	
69+04	11' Lt.			1	
69+12	3' Lt.			1	
69+94	6' Lt.			1	
75+80	40' Lt.			1	



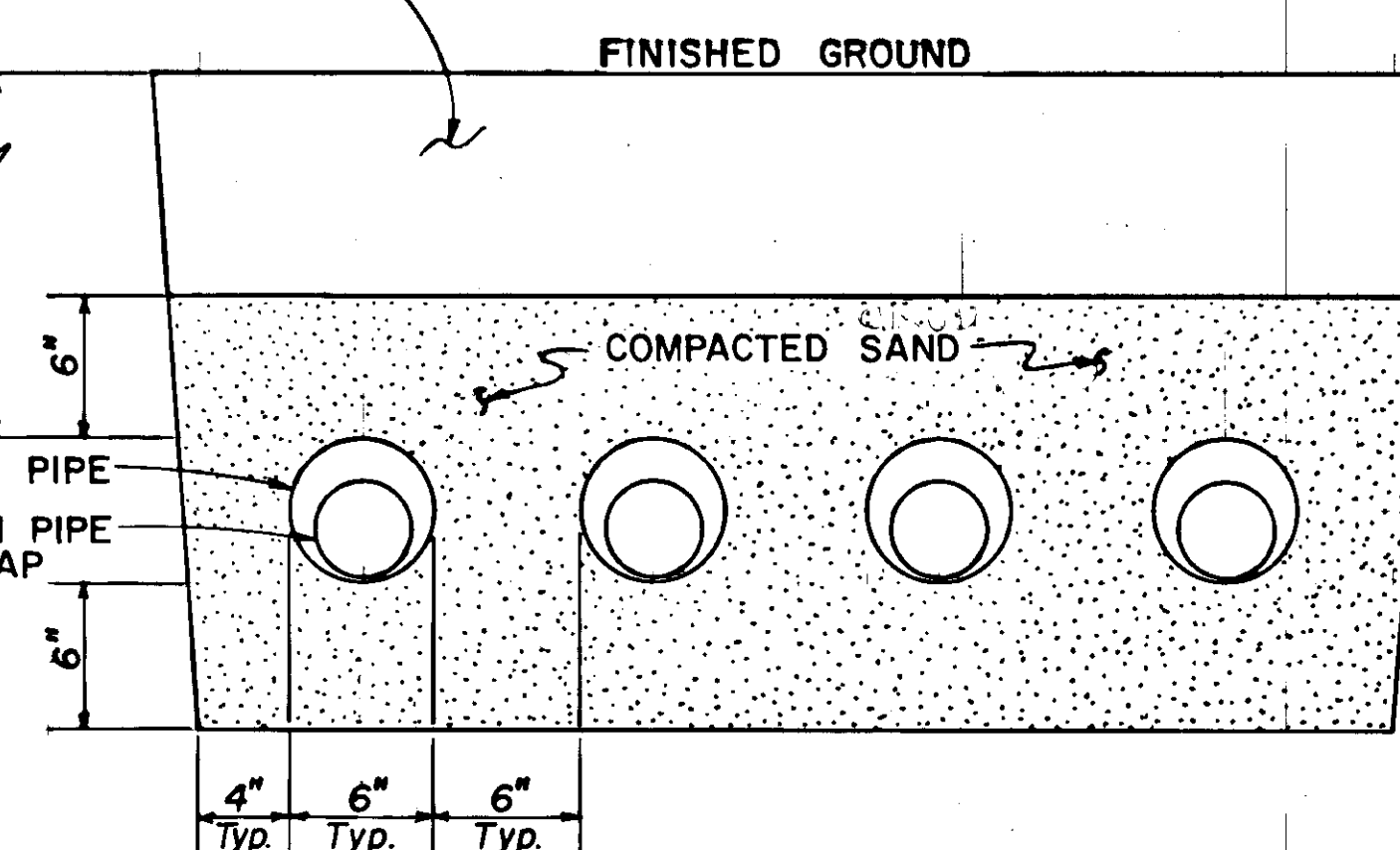
FUEL LINE CROSSING DETAIL
SCALE: 1"=20'



TYPICAL CONCRETE PAD SUPPORT DETAIL
NO SCALE

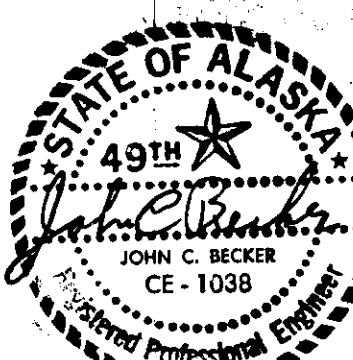
NOTES:

1. CONCRETE SUPPORTS SHALL BE PLACED EVERY 8 FEET.
2. PLACE 6" OF COMPACTED SAND TOP & BOTTOM OF PIPES AS DETAILED.
3. 6" PIPE ENDS SHALL BE PACKED WITH FELT.
4. PIPES SHALL HAVE A MINIMUM COVER OF 2.5 FEET BELOW FINISHED GRADE.
5. WATER LINES PARALLELING THE ROADWAY ARE ESTIMATED TO HAVE A MINIMUM DEPTH OF 4 FEET. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF WATER LINE TO AVOID CONFLICTS WITH THE FUEL LINES.



TYPICAL FUEL LINE DETAIL
NO SCALE

REVISIONS



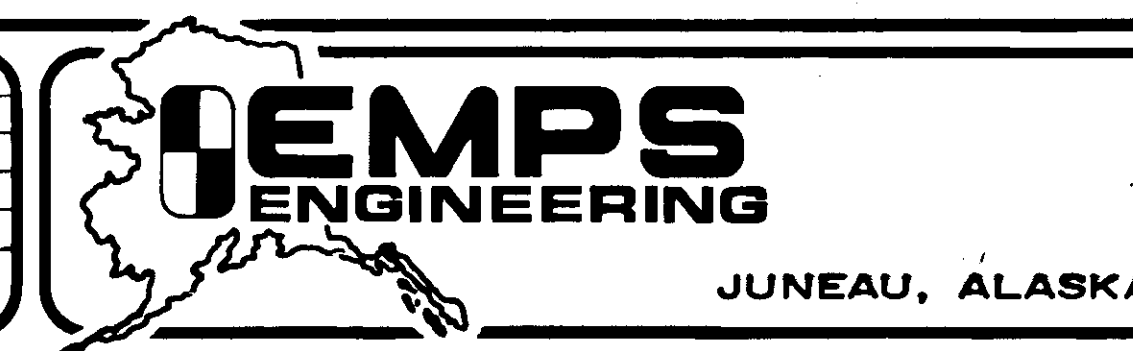
STRUCTURES SUMMARY				
LOCATION	CLASS 'A' CONCRETE C.Y.	REINFORCING STEEL LB.	TREATED TIMBER M.B.M.	PIPE HANDRAIL L.F.
30+01 to 30+17 Lt.			0.6	
53+07 to 53+81 Lt.	24.1	2380		17
55+21 to 55+64 Rt.	9.4	660		
61+61 to 62+23 Lt.	25.3	2580		
10+25 Rt.			0.2	
46+30 Lt.	1.5			
TOTALS	60.3	5620	0.8	17

Δ * OUT OF SEQUENCE

DATE	BY	REVISION
5/4/88	M.B.	ADDED TO STRUCTURE SUMMARY
4/25/88	M.B.	ADDED FUEL LINE CROSSING DETAILS
2/5/98	M.B.	CHANGED WATER UTILITY ADJUSTMENTS AT STA. 28+11, 28+28, & 28+47

PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: J.C.B.
Drawn: —
Chkd: J.C.B.
Date: APR. 1987
Ref: —
SCALE: NONE



SUMMARY TABLES

Sheet
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Proj. No. **711**

SIGNING SUMMARY

STATION	OFFSET LT RT	CODE NO.	LEGEND	SIZE	AREA S.F.	NO POSTS	TYPE	SIZE	SIZE	REMARKS
27+50	12.7	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	
27+50	12.4	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	FACES N.W. BOUND TRAFFIC
27+75	14.1	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	
27+75	13.4	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	FACES N.W. BOUND TRAFFIC
28+00	15.8	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	
28+00	14.4	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"	DELETE	FACES NW BOUND TRAFFIC
29+00	16.8	R2-1	SPEED LIMIT 20	18"x24"	3.0	1	TUBE	2"	24"x30"	
29+00	19.8	W5-1	ROAD N ARROWS	30"	6.25	1	TUBE	2"		
29+00	19.8	W8-3	PAVEMENT ENDS	24"	4.0				30"	MOUNT ABOVE W5-1
38+84	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES PARK AVE TRAFFIC
42+00	27.5	R2-1	SPEED LIMIT 20	18"x24"	3.0	1	TUBE	2"	24"x30"	
42+60	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES MARINE WAY TRAFFIC
44+51	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES HILL AVE TRAFFIC
48+50	17.8	R2-1	SPEED LIMIT 20	18"x24"	3.0	1	TUBE	2"	24"x30"	
51+03	24	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES HARBOR TRAFFIC
59+60	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES BEACH ROAD TRAFFIC
59+68	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES RAVIN DR. TRAFFIC
65+00	27.5	R2-1	SPEED LIMIT 20	18"x24"	3.0	1	TUBE	2"	24"x30"	
65+00	17.8	R2-1	SPEED LIMIT 30	18"x24"	3.0	1	TUBE	2"	24"x30"	
68+57	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES SEE ST. TRAFFIC
68+57	28.5	R6-IL		12"x36"	3.0					MOUNT BACK TO BACK
68+57	28.5	R6-IR		12"x36"	3.0					ABOVE RI-1
68+84	28.5	R5-1	DO NOT ENTER	30"	6.25	1	TUBE	2"		
75+43	28.5	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES WHITE ALICE ROAD TRAFFIC
76+25	17.8	W8-3	PAVEMENT ENDS	24"	4.0	1	TUBE	2"	30"	
76+50	16.8	R2-1	SPEED LIMIT 30	18"x24"	3.0	1	TUBE	2"	24"x30"	
77+00	17.5	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"		
77+45	15.8	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"		
77+90	14.0	W1-8	CHEVRON	9"x18"	1.125	1	TUBE	2"		
42+56	48.0	R1-1	STOP	24"	4.0	1	TUBE	2"	30"	FACES BROAD STREET TRAFFIC
38+84	28.5	D3-1	PARK AVE.	8"x24"	1.33		TUBE	2"		MOUNT ABOVE RI-1
42+60	28.5	D3-1	MARINE WAY	8"x24"	1.33		TUBE	2"		MOUNT ABOVE RI-1
44+51	28.5	D3-1	HILL AVE.	8"x18"	1.0		TUBE	2"		MOUNT ABOVE RI-1
59+68	28.5	D3-1	RAVIN DR.	8"x24"	1.33		TUBE	2"		MOUNT ABOVE RI-1
68+84	28.5	D3-1	SEE ST.	8"x18"	1.0		TUBE	2"		MOUNT ABOVE RI-1
75+43	28.5	D3-1	WHITE ALICE RD.	8"x36"	2.0		TUBE	2"		MOUNT ABOVE RI-1

TOTAL = 98.62 S.F.

SIGNING SUMMARY NOTES

- SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
- POST LENGTHS SHALL BE DETERMINED AS PER STD. DRAWING S-05.00
- ALL SIGN POSTS SHALL BE TELESCOPING, PERFORATED, GALVANIZED SQUARE STEEL POSTS. THE 2" SIZE SHALL BE USED ABOVE GROUND AND THE 2-1/4" SIZE SHALL BE USED BELOW GROUND.
- ALL POSTS SHALL BE INSTALLED WITH THE SLEEVE TYPE EMBEDMENT IN ACCORDANCE WITH STD. DWG. S-30.01
- EXISTING SIGNS AND POSTS REMOVED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED A PART OF PAY ITEM 202(1)
- ALL NEW SIGNS SHALL BE UNFRAMED UNLESS OTHERWISE NOTED.
- ALL STREET NAME SIGNS SHALL FACE ARTERIAL TRAFFIC.

STATION	OFFSET LT RT	CODE NO.	LEGEND	SIZE	AREA S.F.	NO. POST	TYPE	SIZE
29+15	17'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
31+35	19'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
32+15	17'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
35+12	19'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
36+00	17'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
40+20	17'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
43+86	19'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
46+38	19'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
48+40	20'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
54+87	15'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
63+00	15'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"
30+42	16'	R7-1	NO PARKING ANYTIME	12"x18"	1.5	1	TUBE	2"

EDGE STRIPES

Sta. 31 + 16	to	31 + 48 Rt.	32 L.F.
Sta. 32 + 46	to	33 + 06 Rt.	61 L.F.
Sta. 33 + 63	to	41 + 86 Rt.	823 L.F.
Sta. 42 + 57	to	43 + 67 Rt.	90 L.F.
Sta. 44 + 96	to	45 + 60 Rt.	64 L.F.
Sta. 46 + 64	to	48 + 76 Rt.	112 L.F.
Sta. 50 + 37	to	50 + 63 Rt.	26 L.F.
Sta. 51 + 14	to	52 + 06 Rt.	92 L.F.
Sta. 52 + 84	to	55 + 11 Rt.	127 L.F.
Sta. 55 + 74	to	59 + 20 Rt.	346 L.F.
Sta. 59 + 51	to	75 + 01 Rt.	1650 L.F.
Sta. 75 + 01	to	77 + 91 Rt.	290 L.F.
Sta. 76 + 12	to	77 + 91 Lt.	179 L.F.
TOTAL			3792 L.F.

DOUBLE NO PASSING STRIPES

Sta. 27 + 50	to	38 + 72	1122 L.F.
Sta. 39 + 16	to	42 + 51	335 L.F.
Sta. 43 + 37	to	44 + 38	101 L.F.
Sta. 44 + 95	to	50 + 63	568 L.F.
Sta. 51 + 14	to	59 + 20	806 L.F.
Sta. 60 + 23	to	68 + 46	823 L.F.
Sta. 68 + 94	to	75 + 01	607 L.F.
TOTAL			4362 L.F.

CENTER STRIPE

Sta. 76 + 12	to	77 + 91	179 L.F.
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SINGLE NO PASSING STRIPE

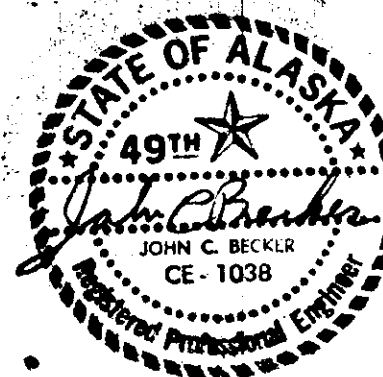
Sta. 76 + 12	to	77 + 25	113 L.F.
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TYPE "B" PARKING STRIPE

Sta. 36 + 00	to	38 + 72 Lt	272 LF
Sta. 39 + 16	to	42 + 51 Lt	335 LF
Sta. 43 + 37	to	44 + 38 Lt	101 LF
Sta. 44 + 95	to	59 + 54 Lt	1459 LF
Sta. 60 + 23	to	68 + 46 Lt	823 LF
Sta. 68 + 94	to	75 + 25 Lt	631 LF
Less driveways			(312) LF
TOTAL			3309 LF

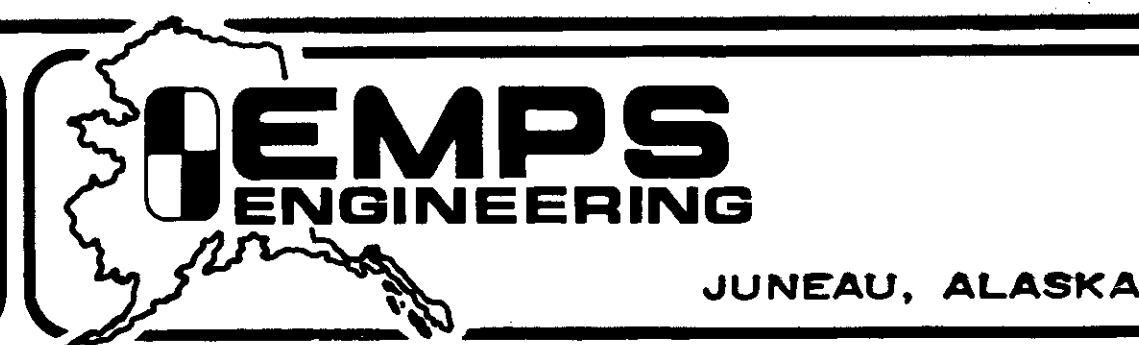
NOTES

- PAVEMENT MARKINGS SHALL CONSIST OF CENTERLINE, SHOULDER, STOP BAR AND CROSSWALK MARKINGS IN ACCORDANCE WITH STANDARD DRAWING T-21.01
- NO TYPE "B" PARKING STRIPE SHALL BE PLACED OPPOSITE DRIVEWAY ENTRANCES.
- SEE SHEET 10 FOR CROSSWALK MARKINGS.



PROJECT RS-0918(3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Desgn: JCB
Drawn: SEGM
Chkd: JCB
Date: DEC 1985
Ref.:
SCALE: NONE

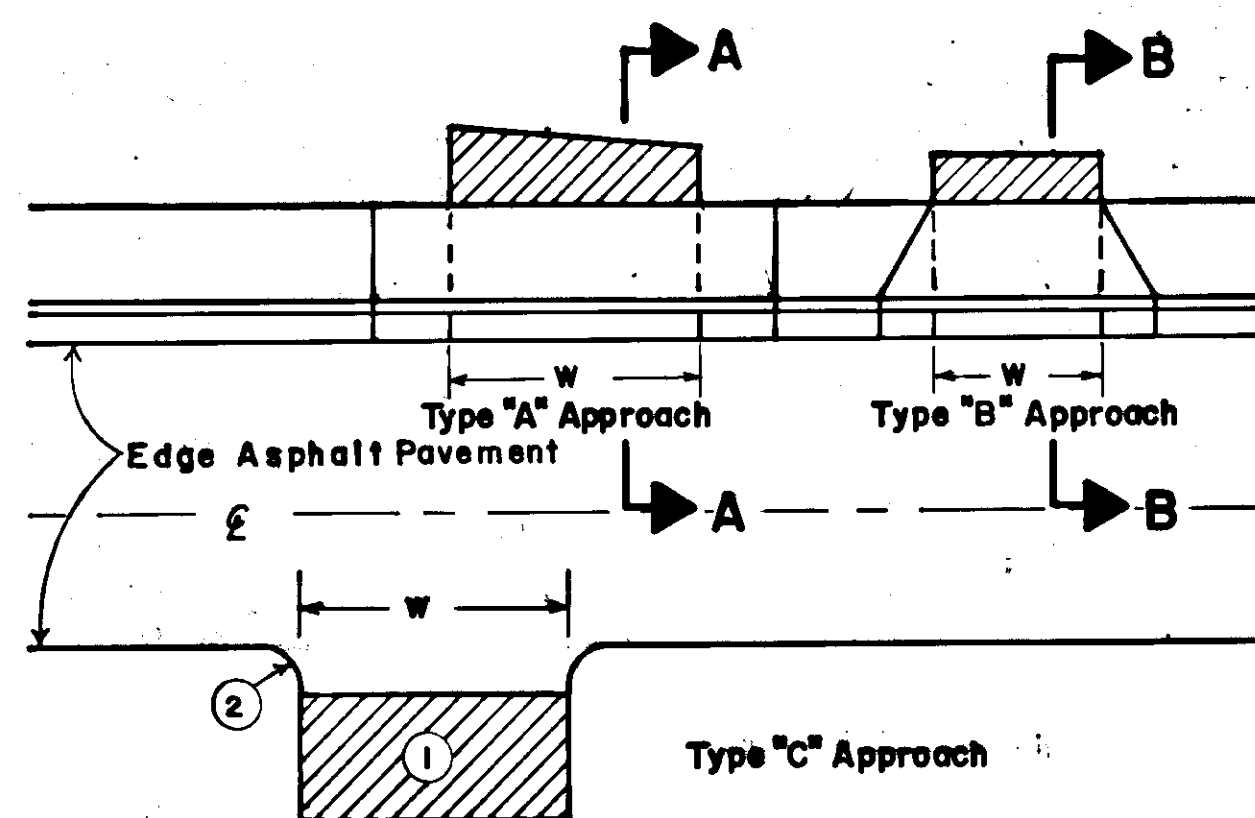


SIGNING & STRIPING

Sheet
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Proj.
No. 711

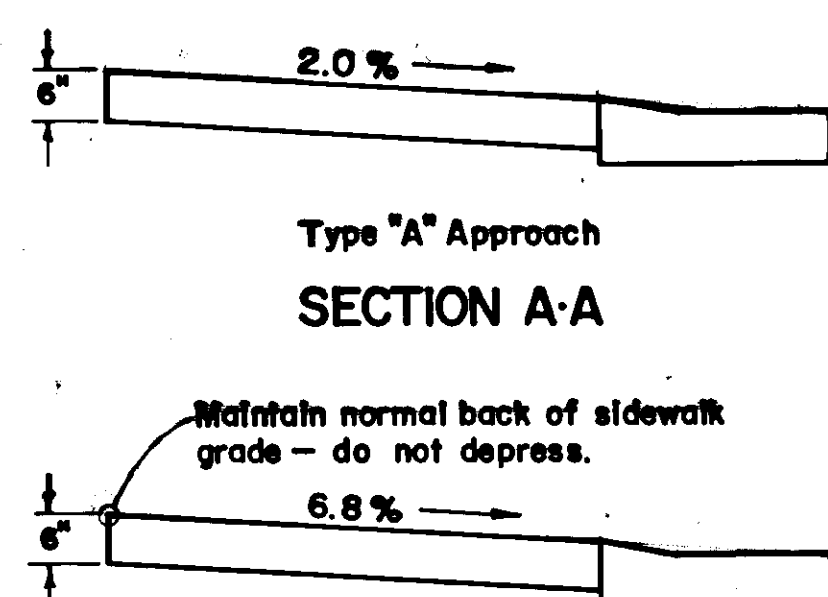
See Std. Drawing I-20.01 for
Sidewalk Transition Details



- ① Cross hatching indicated Crushed Aggregate Base Surfacing only — no pavement.
- ② All radii are 5 feet unless otherwise noted on Plan and Profile sheets.
- ③ Approaches to have same Base & Subbase thickness as main roadway.

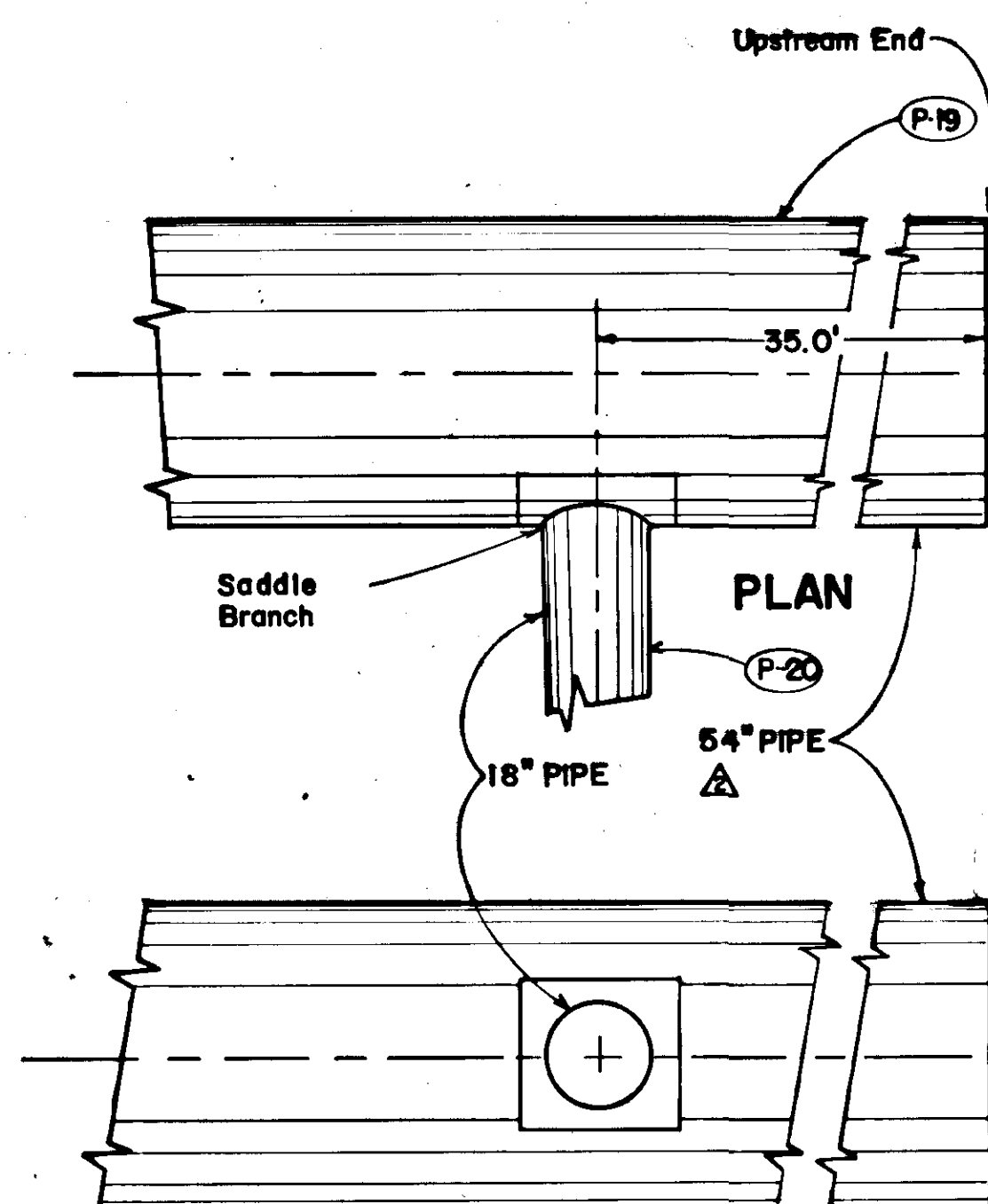
APPROACH DETAILS

Approach Summary on Sheet 5
Not to Scale



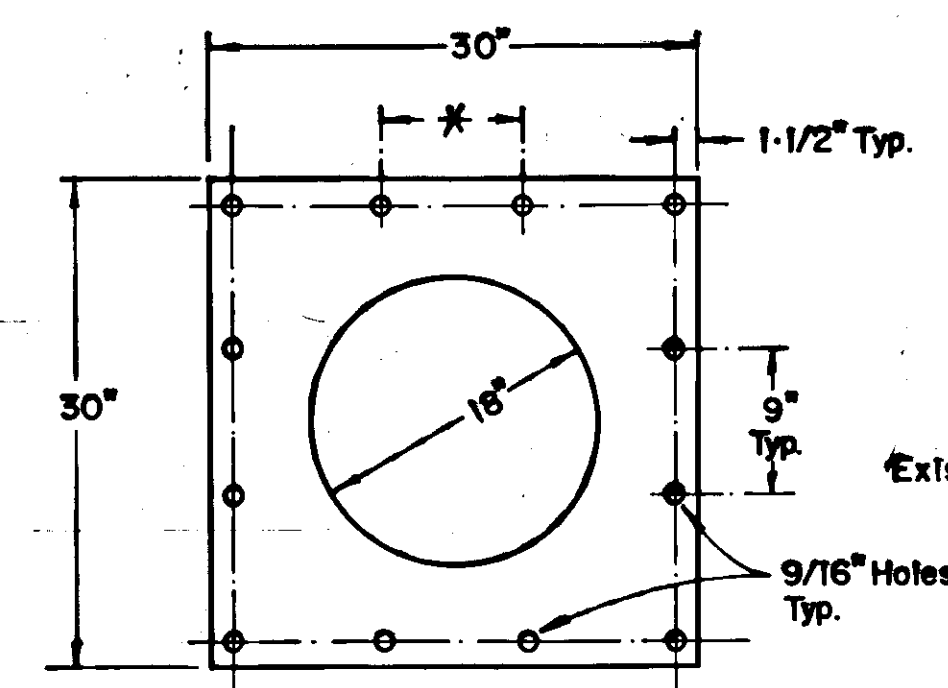
CURB CUT DETAILS

Not to Scale



PIPE JUNCTION

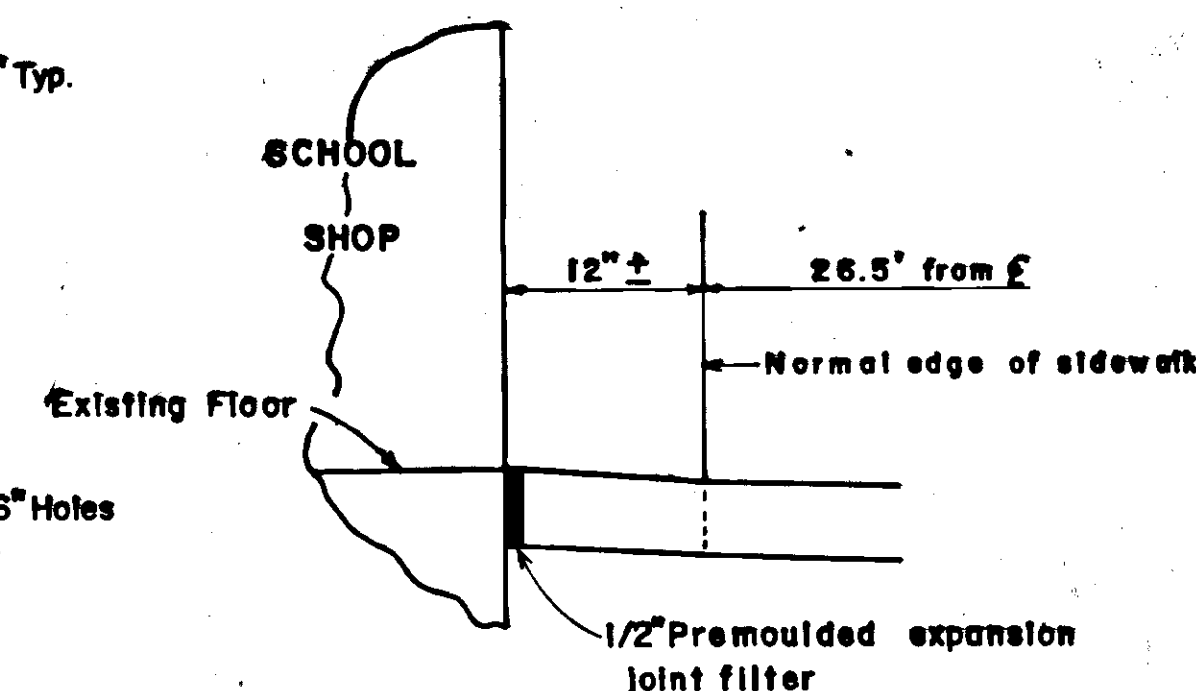
Sta 50 + 70
Not to Scale



SADDLE PLATE

Not to Scale

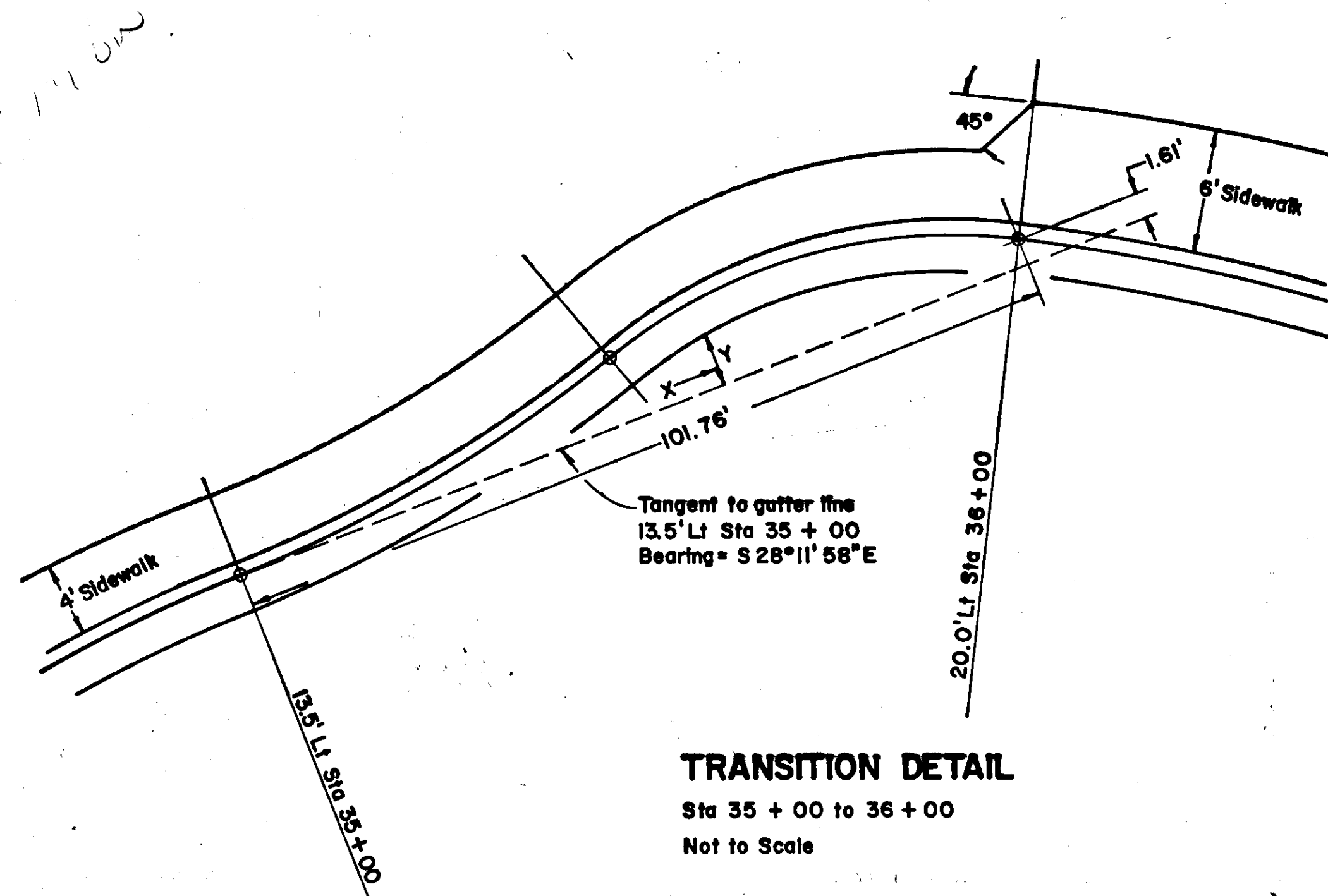
* Top & bottom hole spacing to be 2x corrugation spacing or 9", whichever is less. All bolt holes to be in crest of corrugations.



- ① Remove existing driveway slab to edge of footing or floor slab
- ② Extend sidewalk to footing or floor slab, and match existing floor elevation

SCHOOL SHOP APPROACH

Sta. 49 + 90
Not to Scale

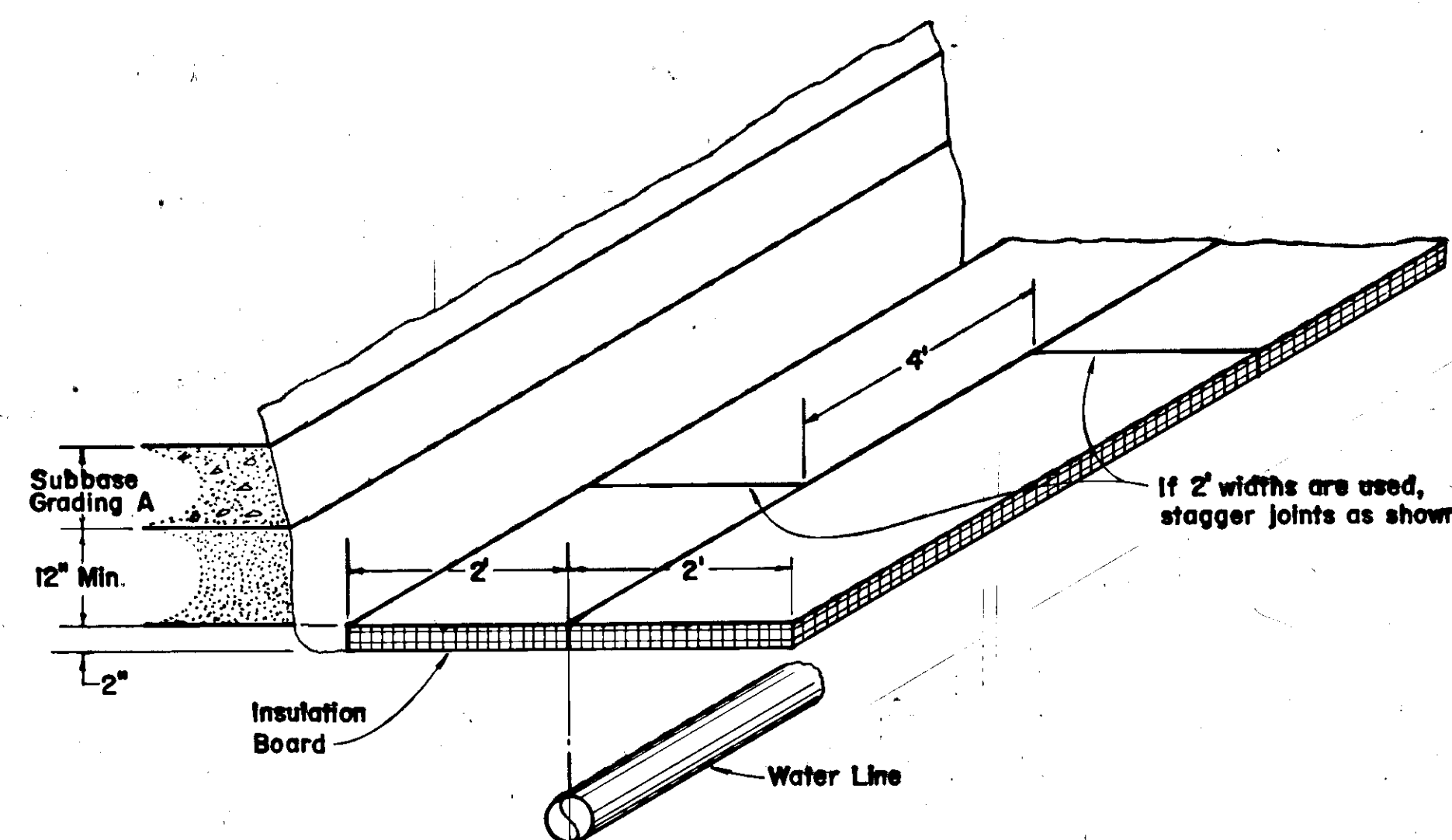


TRANSITION DETAIL

Sta 35 + 00 to 36 + 00
Not to Scale

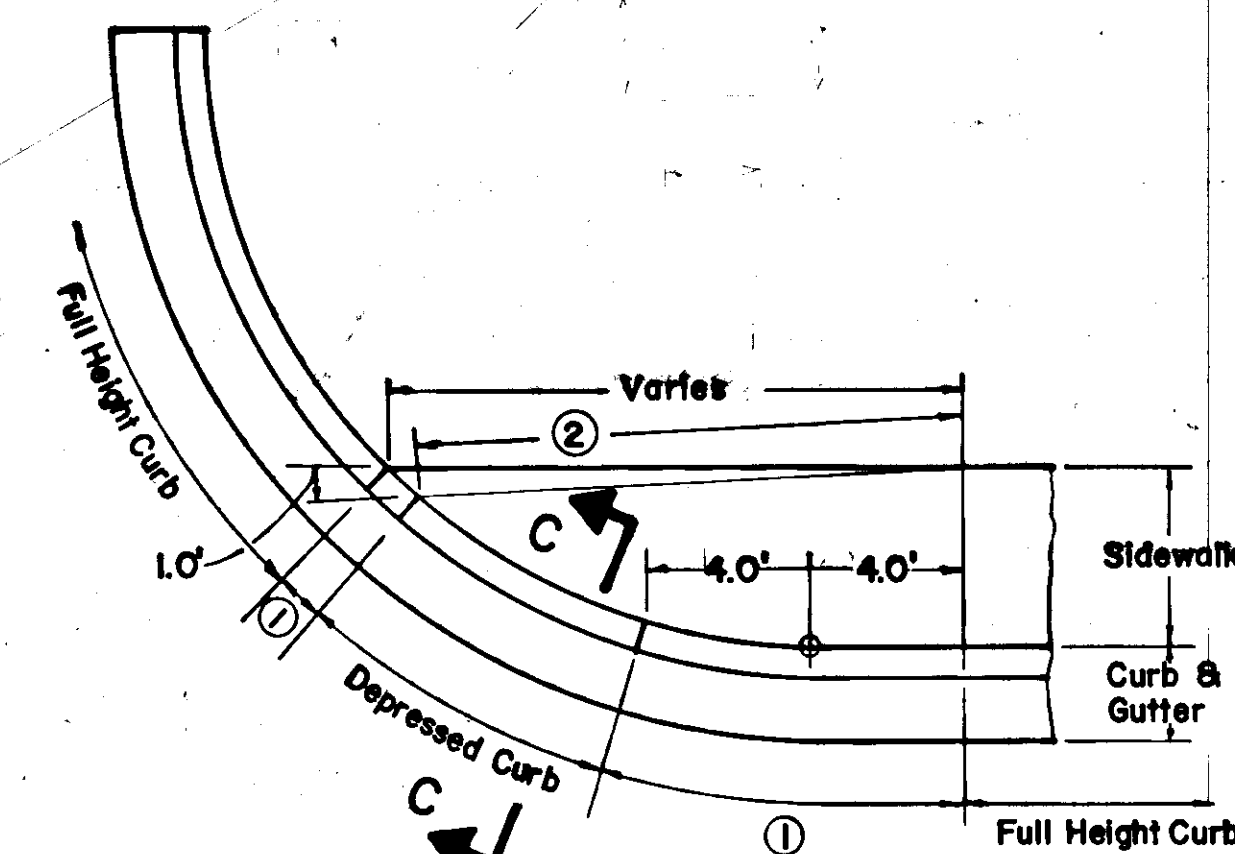
PARABOLIC OFFSETS

DISTANCE ALONG TANGENT TO 13.5' LT STA 35 + 00 (X) FT	0	10	20	30	40	50	60	70	80	90	101.76
OFFSET (Y) FT	0	0.08	0.31	0.71	1.25	1.96	2.61	2.92	2.89	2.50	1.61



INSULATION BOARD DETAIL

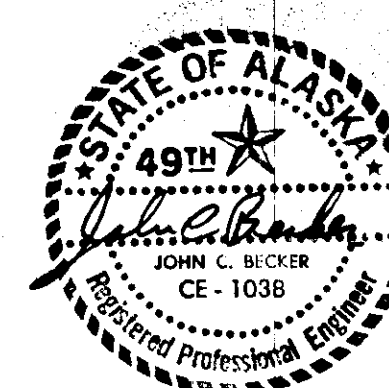
Not to Scale



- ① Uniform transition from depressed to full height curb.
- ② Construct sidewalk to a uniform slope.

WHEELCHAIR RAMP DETAIL

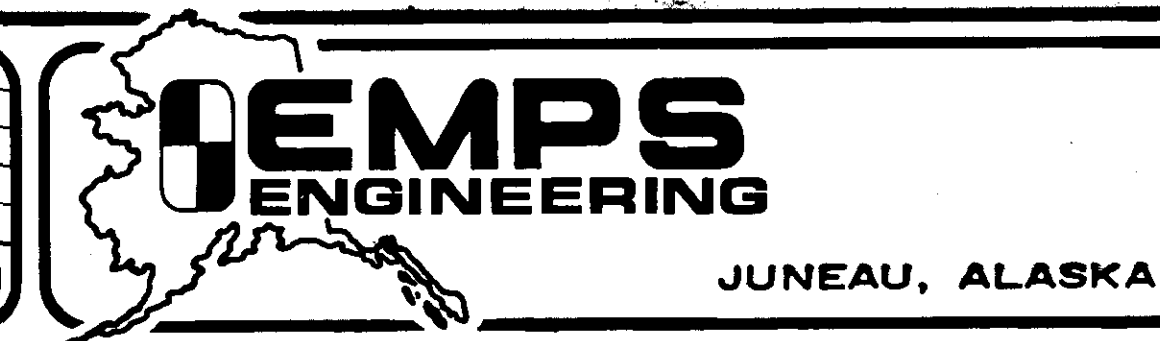
Not to Scale



DATE	BY	REVISION
7/2/87	EMPS	CHANGED PIPE DIAMETER
5/20/87	W.D.A.	CHANGED WORDING

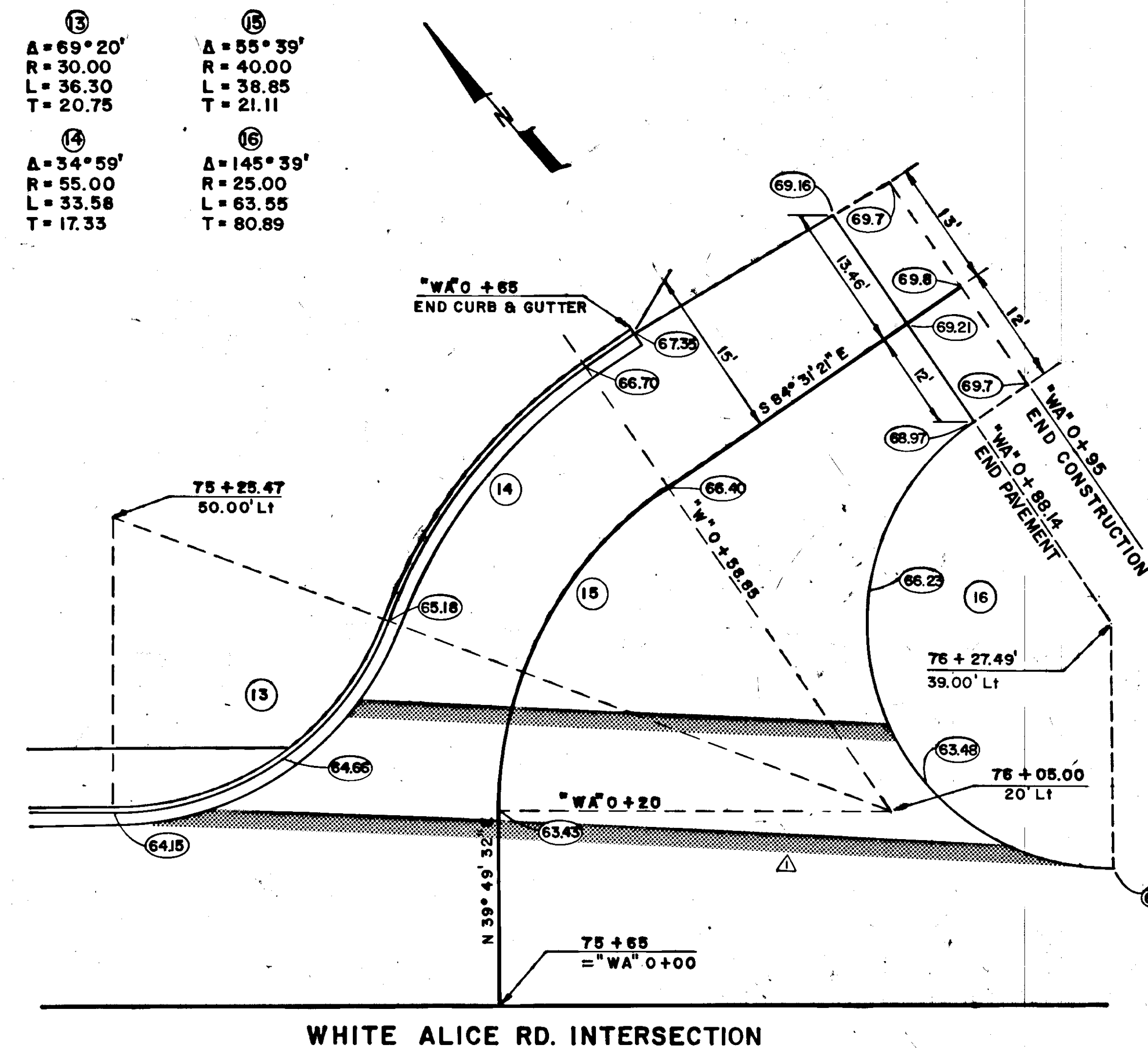
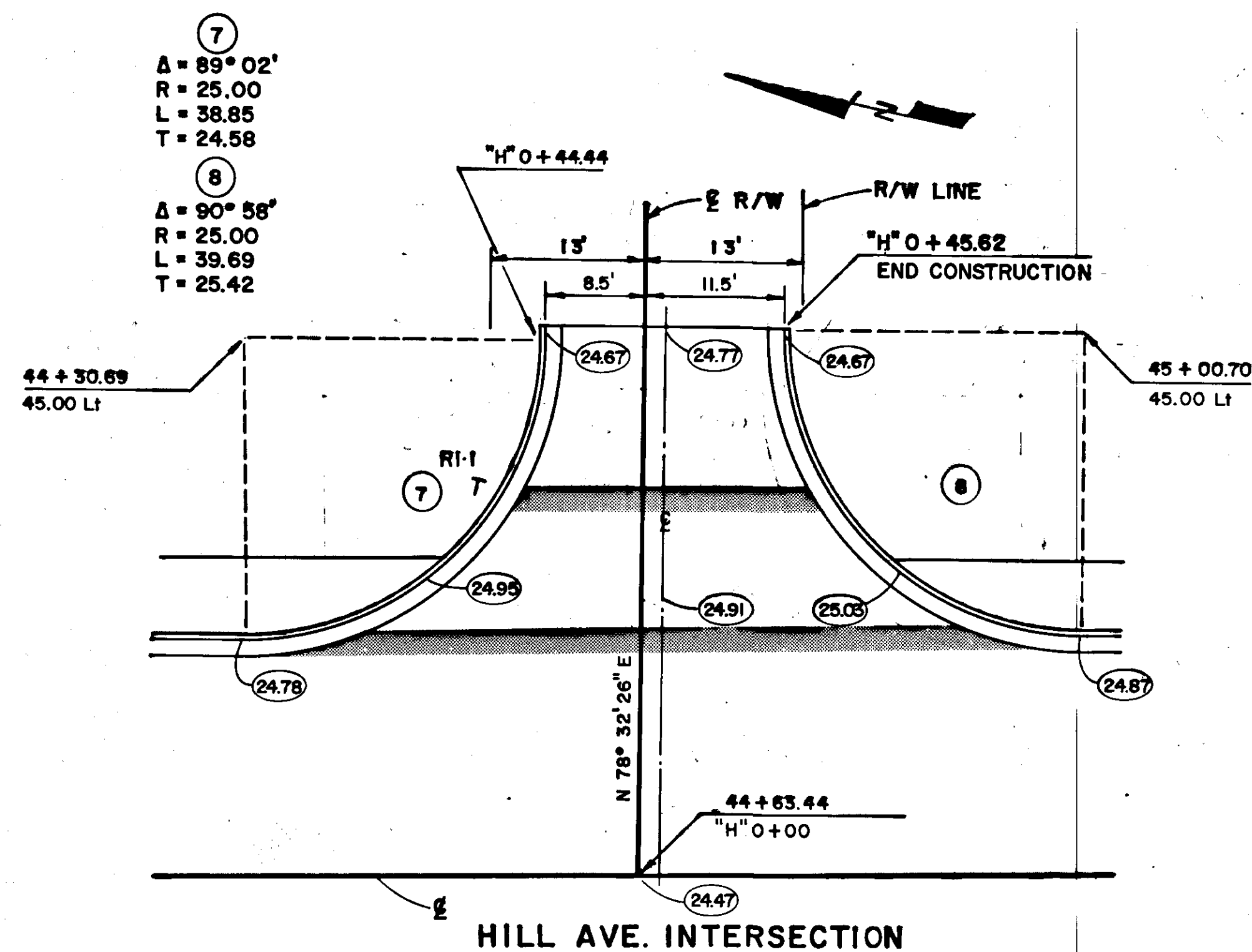
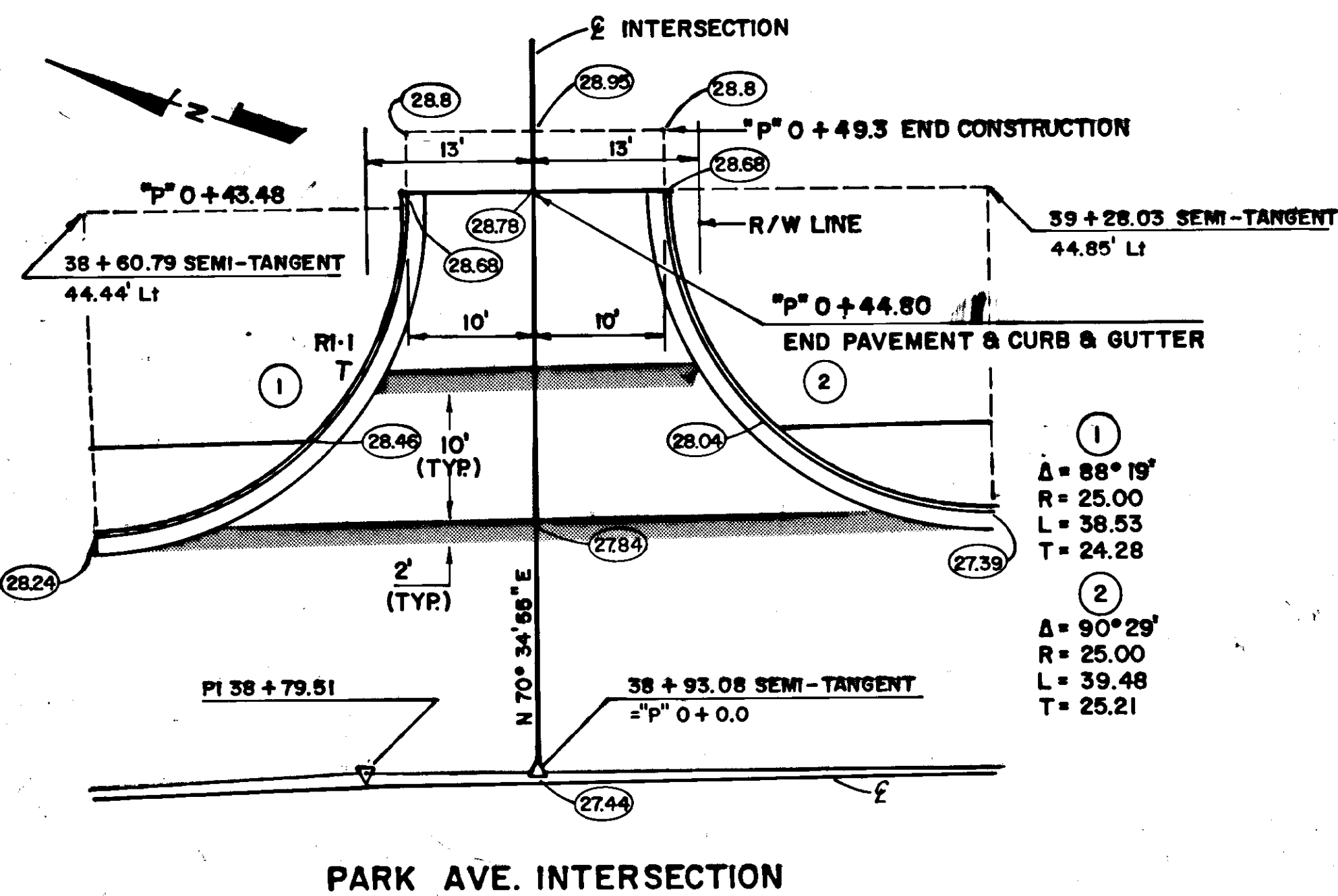
PROJECT RS-0918 ()
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: JCB
Drawn: SEGM
Chkd: JCB
Date: DEC. 1985
Ref.:
SCALE AS SHOWN

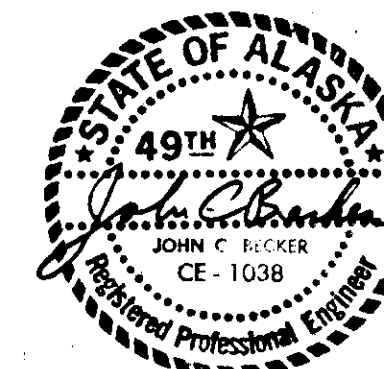
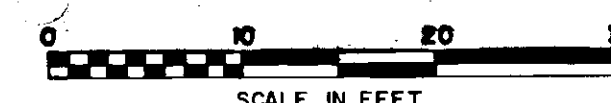
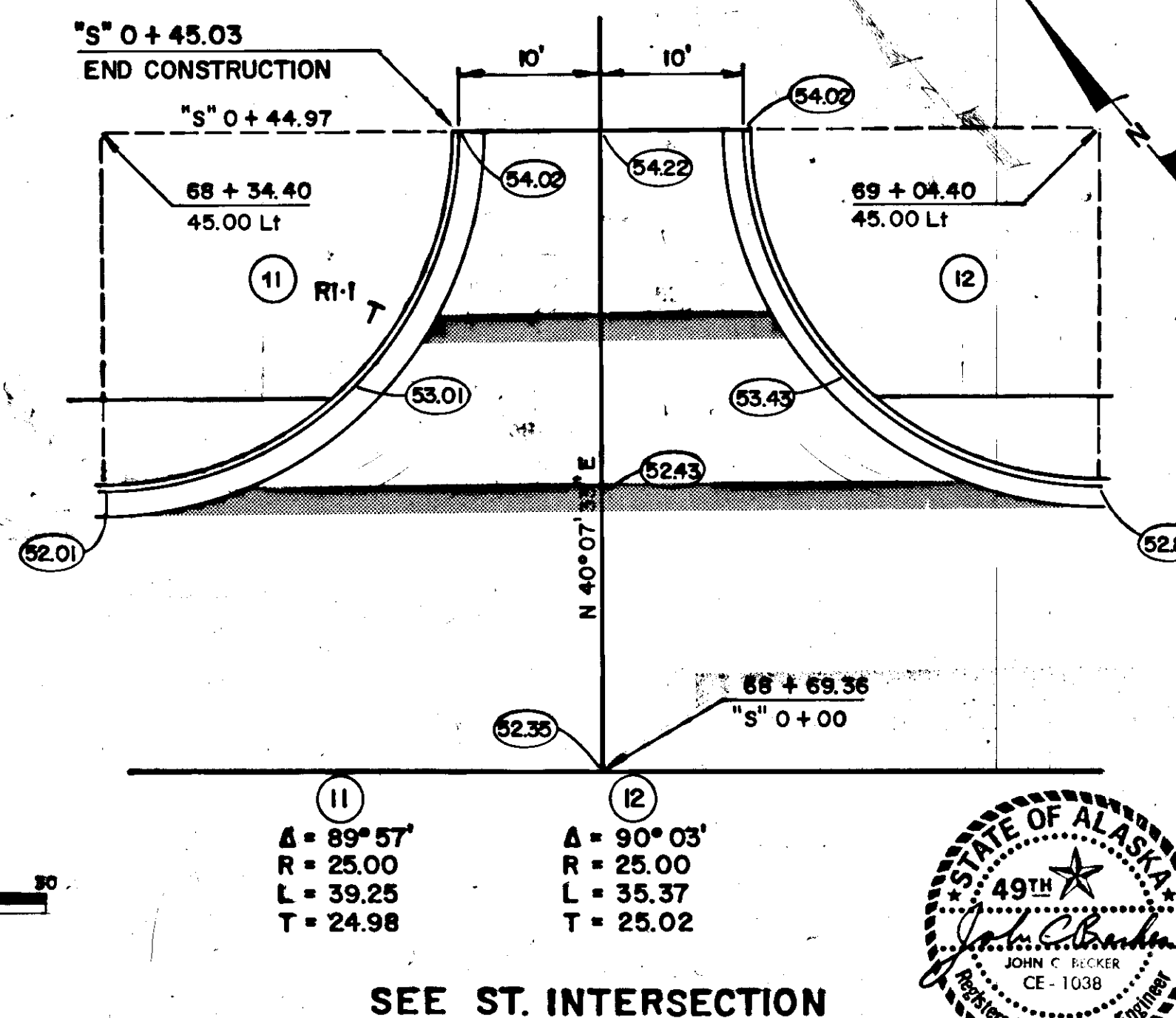
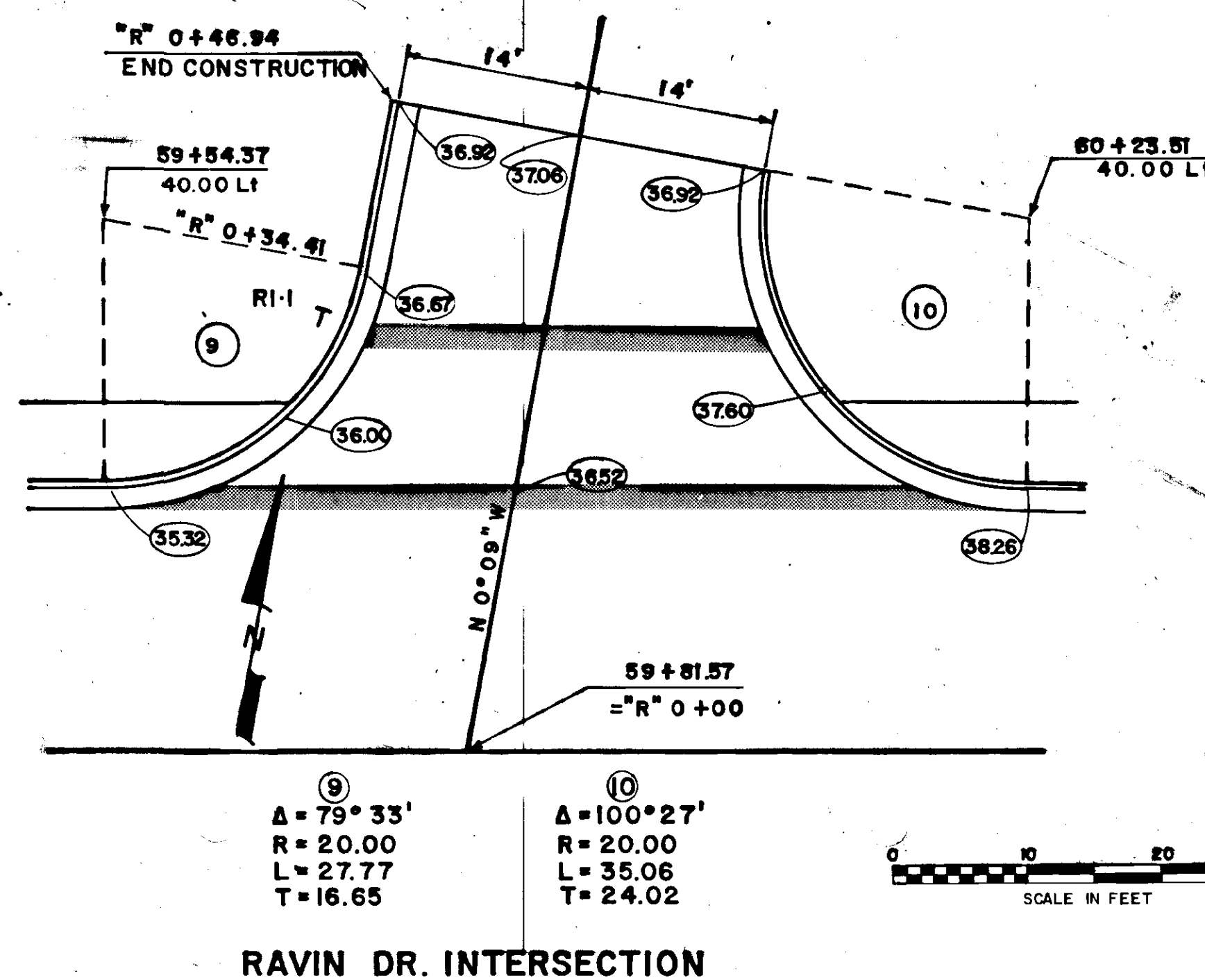
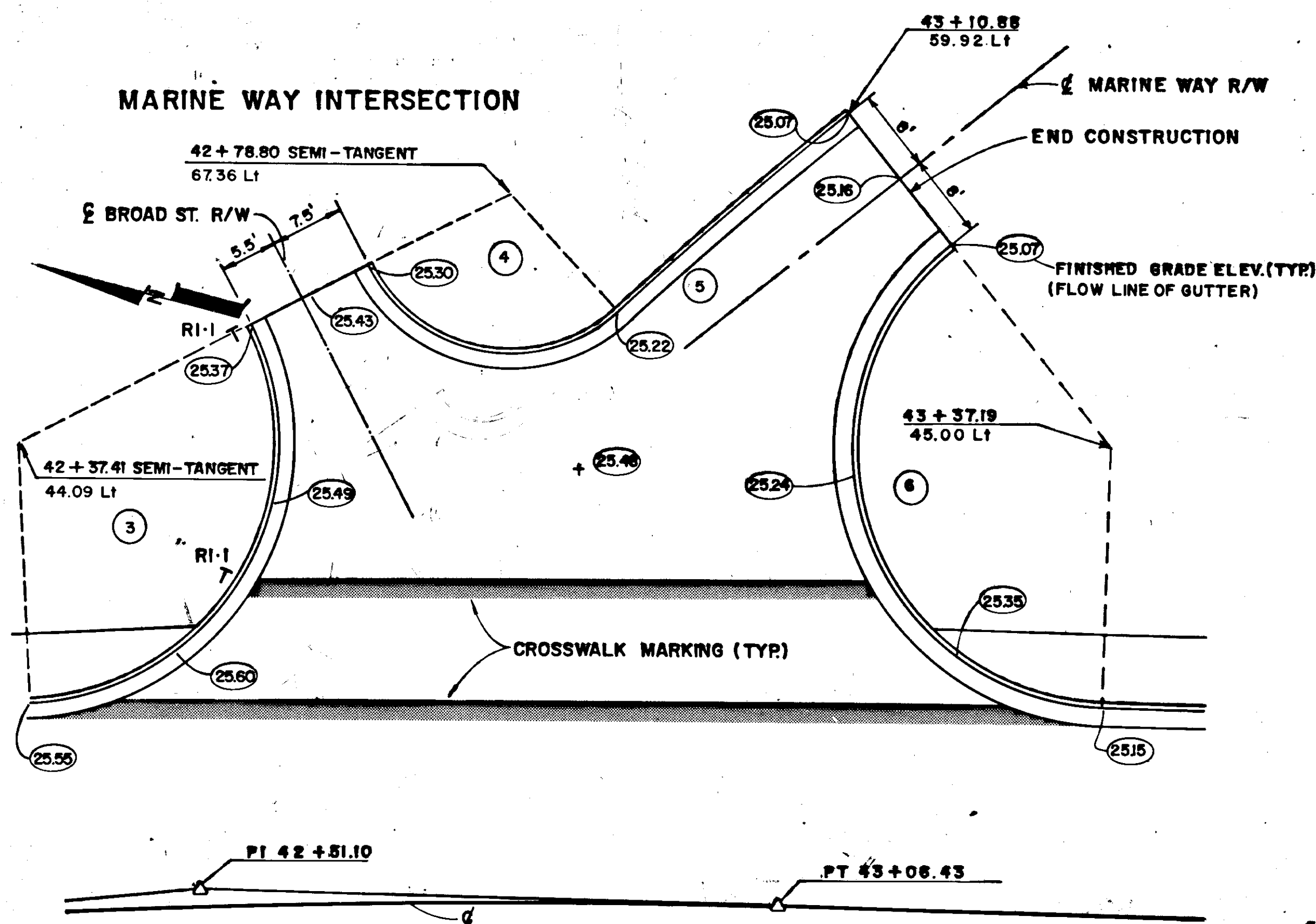


MISCELLANEOUS DETAILS

Sheet
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Proj. No. 711



- 3 Δ = 114°14', R = 25.00, L = 49.84, T = 38.66
- 4 Δ = 106°06', R = 15.00, L = 27.78, T = 19.94
- 5 Δ = 4°49', R = 348.20, L = 29.30, T = 14.66
- 6 Δ = 140°04', R = 25.00, L = 61.12, T = 68.81



EV	DATE	BY	REVISION
1	5/18/87	W.D.A.	ADD CROSSWALK SYMBOL TO WHITE ALICE ROAD INTERSECTION.

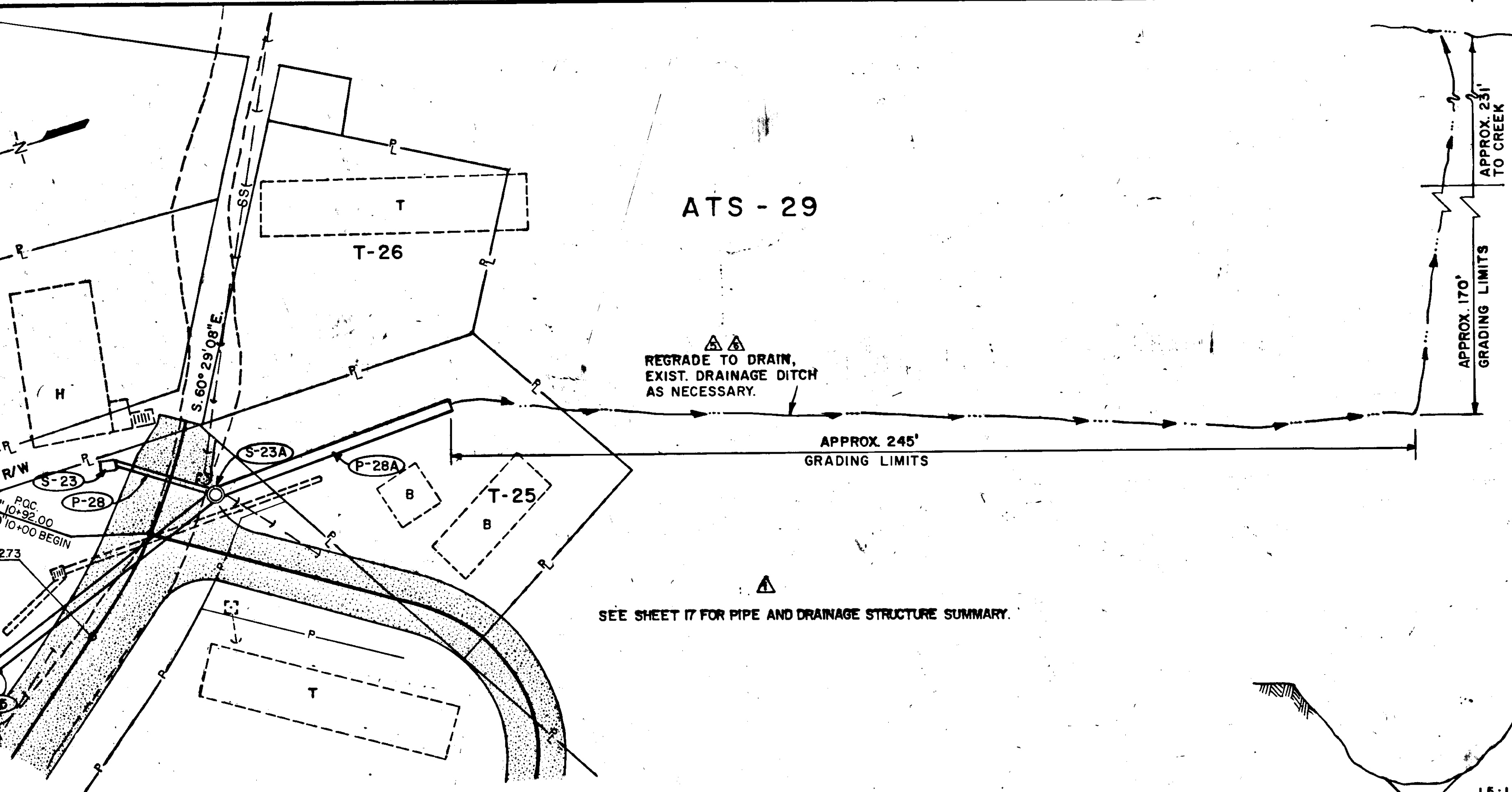
PROJECT RS-0918(3)
HOONAH ARTERIAL
 HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: JCB
 Drwn: SEGM
 Chkd: JCB
 Date: DEC 1985
 Ref.:
 SCALE: AS SHOWN

EMPS
 ENGINEERING
 JUNEAU, ALASKA

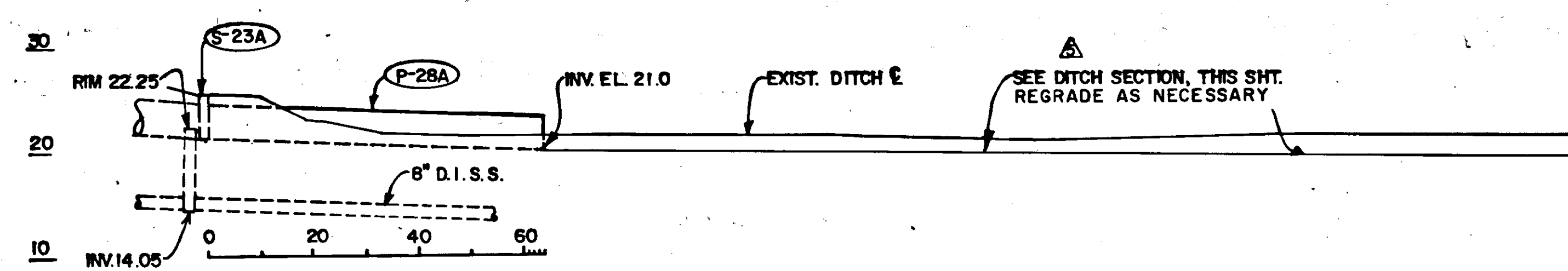
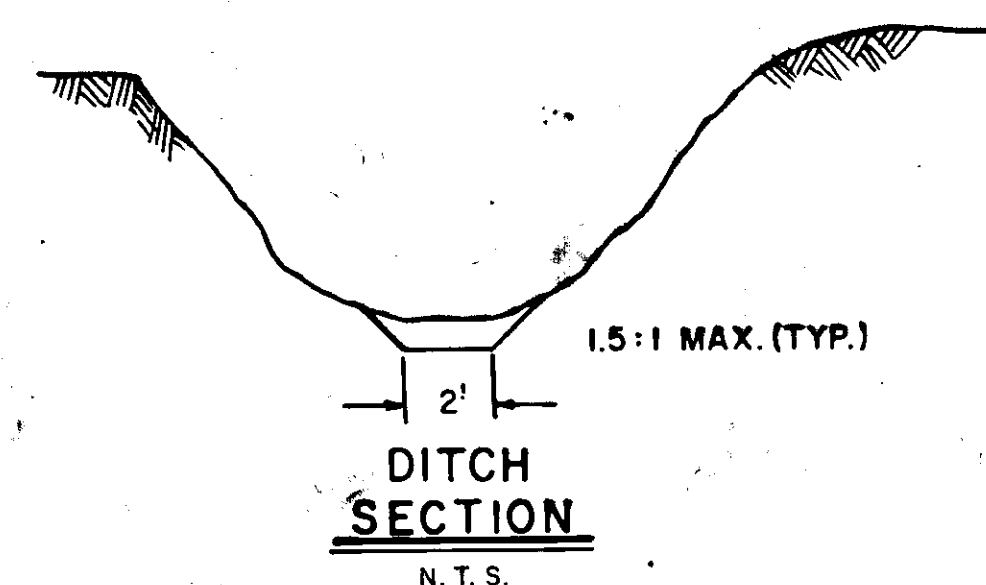
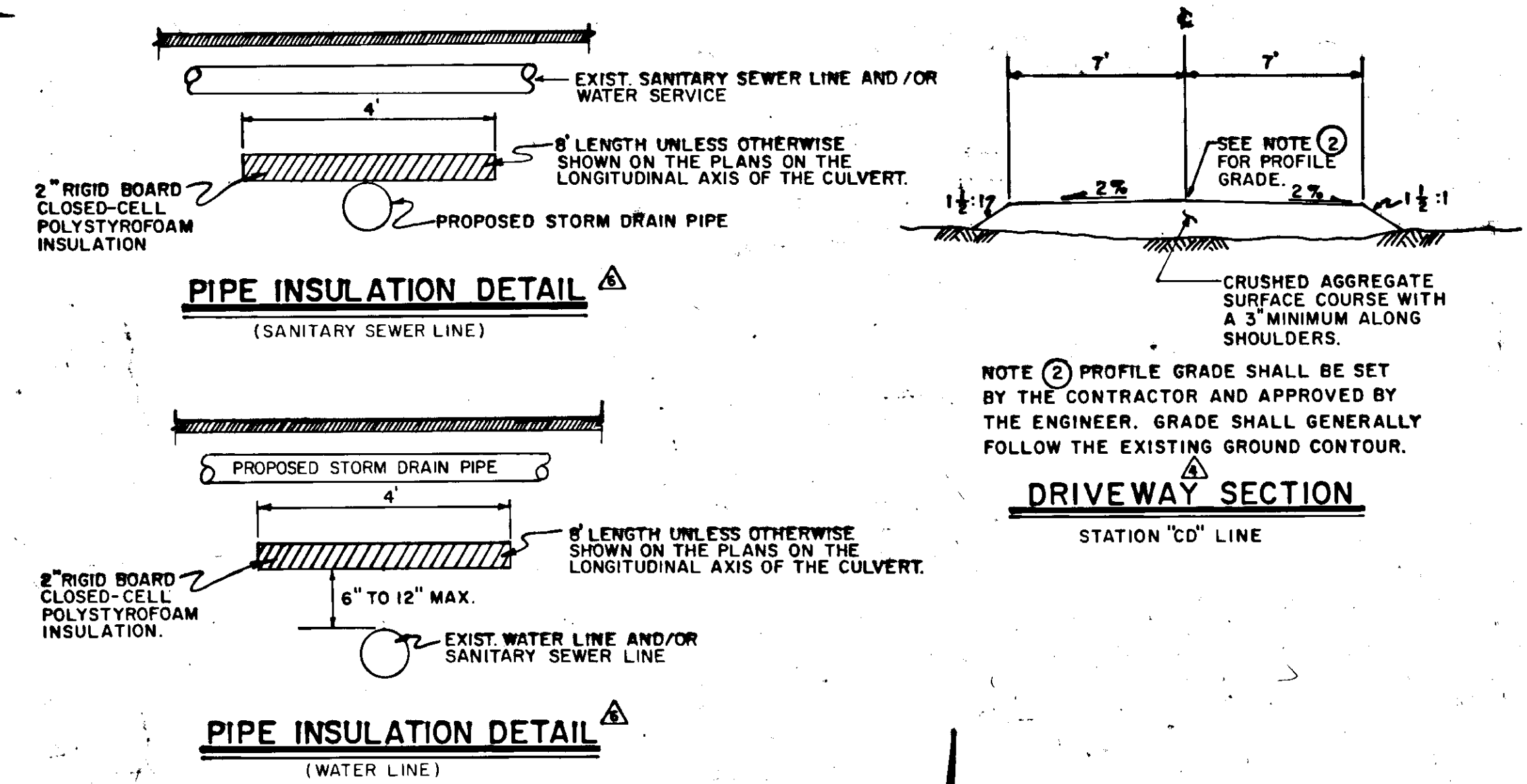
INTERSECTION DETAILS

Sheet
 10 of 30
 Proj. No. 711

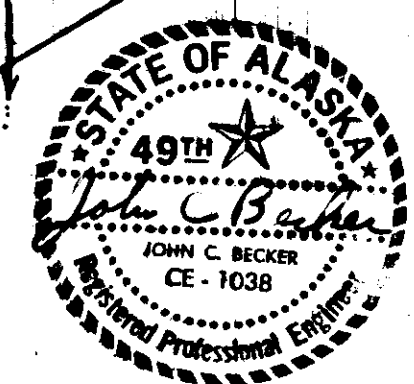
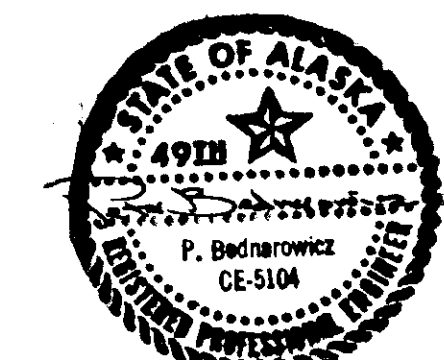
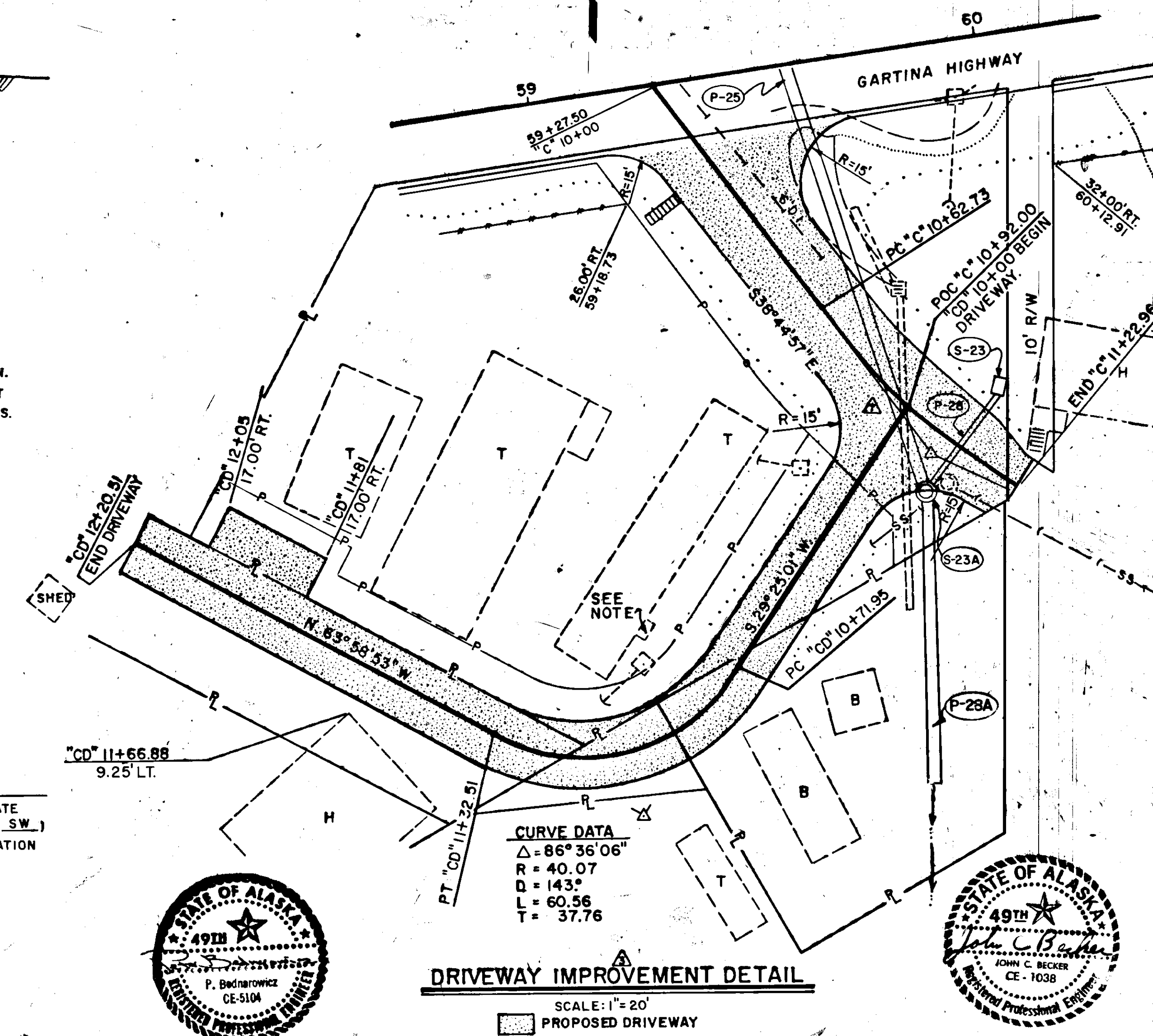


LEGEND
 PROPOSED DRIVEWAY

SEE SHEET 17 FOR PIPE AND DRAINAGE STRUCTURE SUMMARY.



NOTE:
 CONTRACTOR SHALL RELOCATE FUEL TANK TO THE OTHER (SW) SIDE OF THE BLDG. AT LOCATION SPECIFIED BY THE OWNER.



DATE	BY	REVISION
11/2/87	M.B.	CHANGED DRIVEWAY INTERSECTION
10/3/87	M.B.	ADD DRAINAGE NOTES & PIPE INSULATION DETAILS
10/1/87	M.B.	CHANGED P-28A & DRAINAGE DITCH PLAN/PROFILE
5/27/87	M.B.	ADD DRIVEWAY SECTION
5/26/87	M.B.	ADD DRIVEWAY IMPROVEMENT DETAIL
5/21/87	M.B.	MOVED P-28, P-28A, S-23A. LENGTHENED P-28A. SHORTENED P-25, P-28.
5/18/87	M.B.	CHANGE SHEET NO. 12 TO 17.

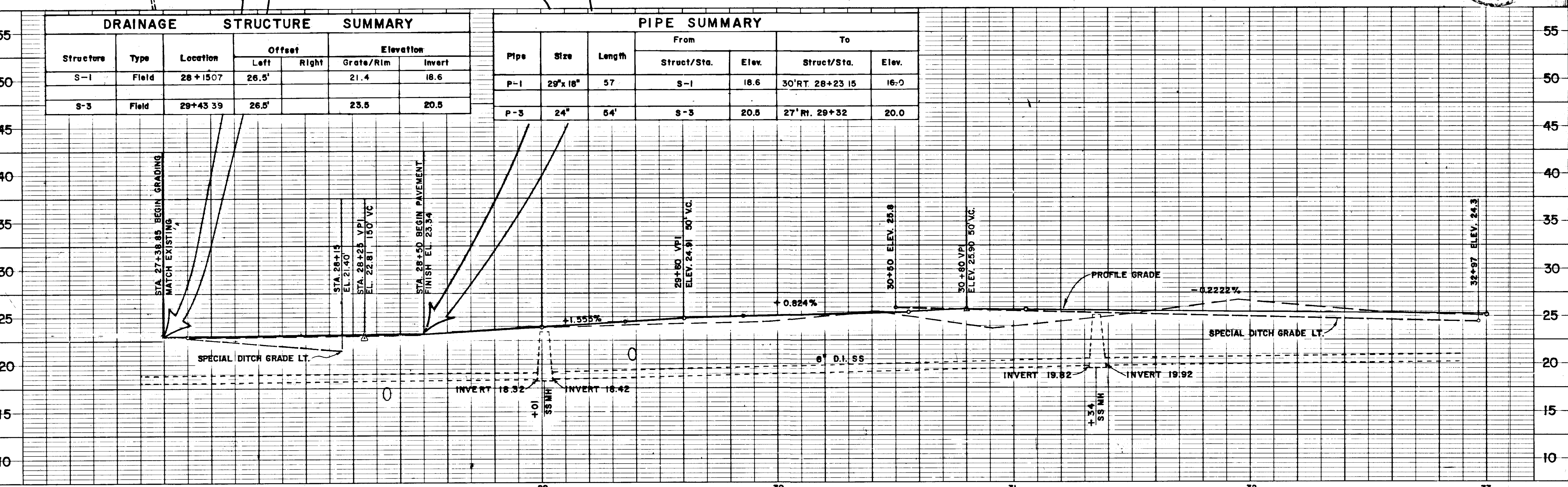
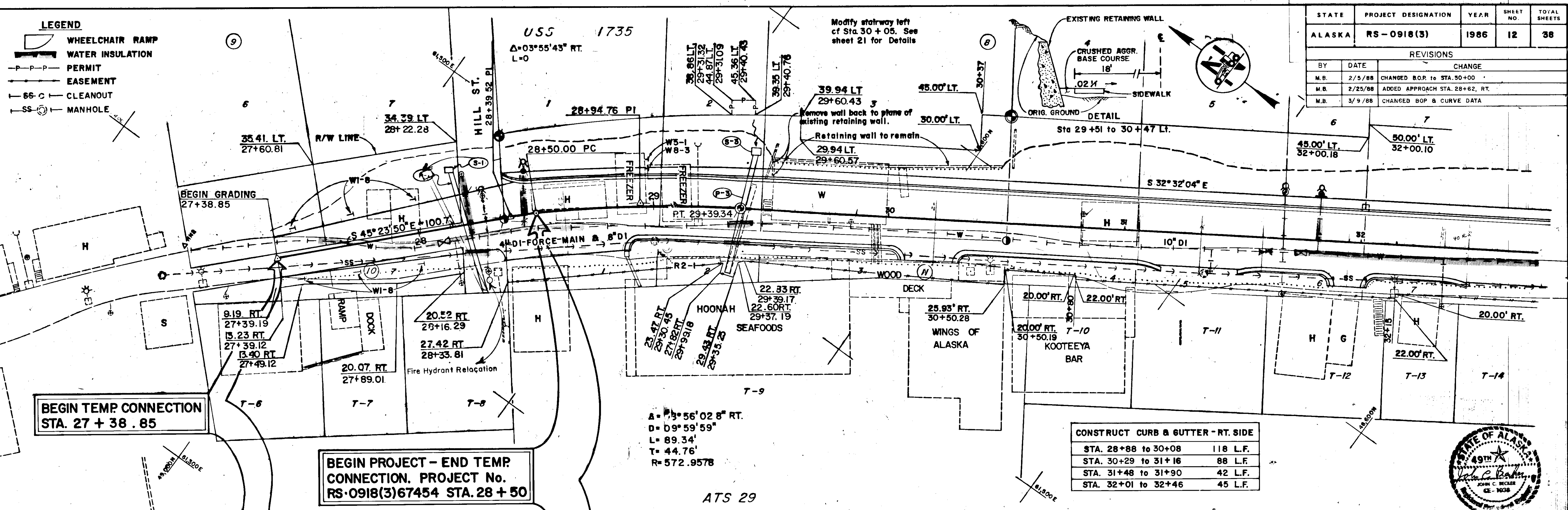
PROJECT RS - 0918 (3)
HOONAH ARTERIAL
 HOONAH SEAFOODS TO WHITE ALICE ROAD

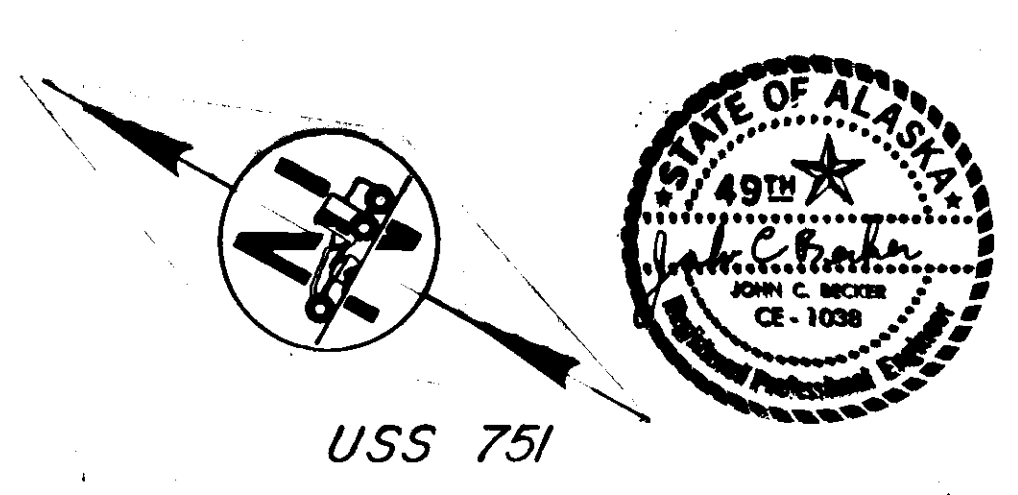
Dsgn: JCB
 Drawn: SEGM
 Chkd: JCB
 Date: APR. 1987
 Ref.:
 SCALE: 1" = 20'

EMPS ENGINEERING
 JUNEAU, ALASKA

STORM DRAIN EXTENSION

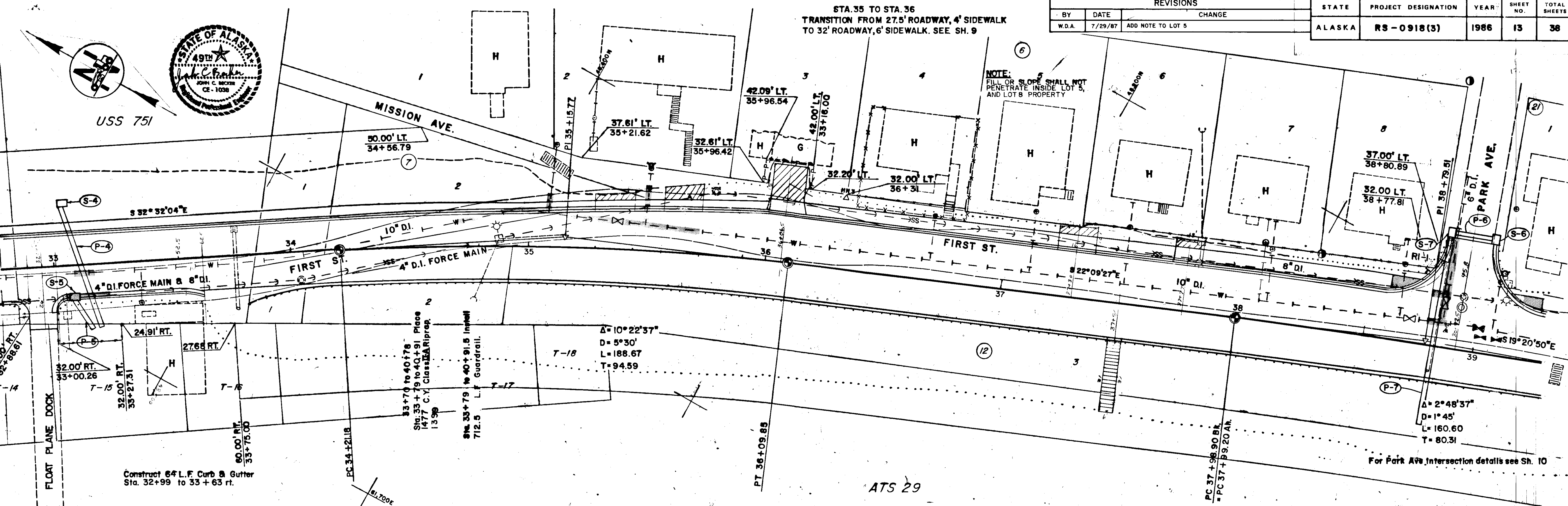
Sheet 11 of 38
 Proj. No. 711





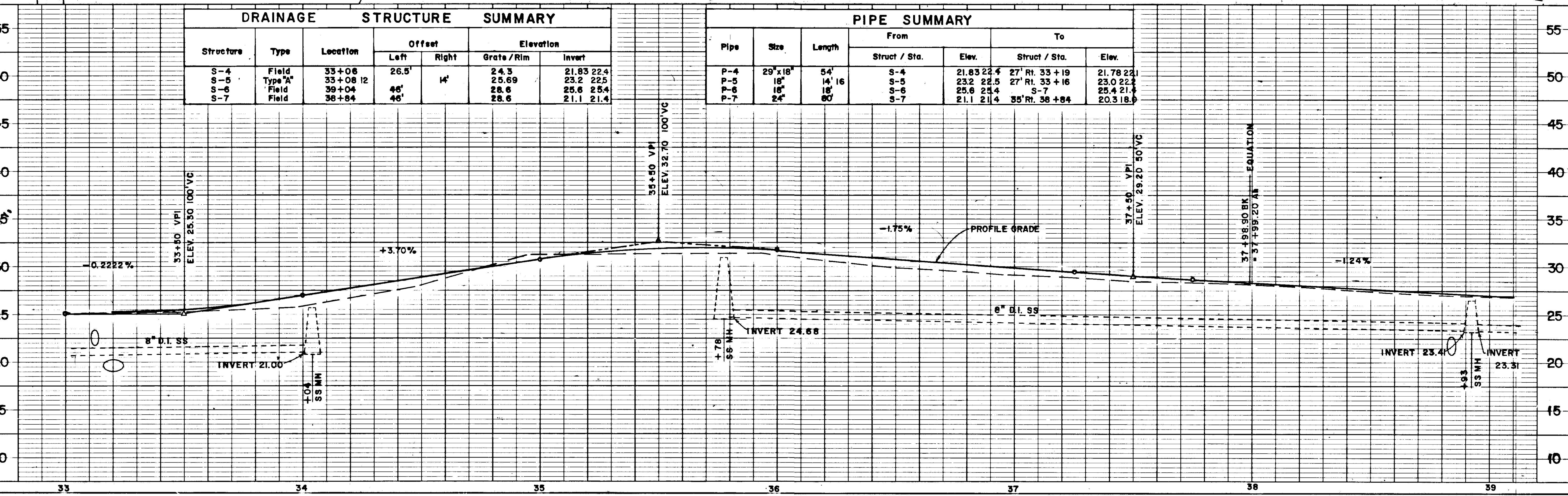
STA.35 TO STA.36
TRANSITION FROM 27.5' ROADWAY, 4' SIDEWALK
TO 32' ROADWAY, 6' SIDEWALK. SEE SH. 9

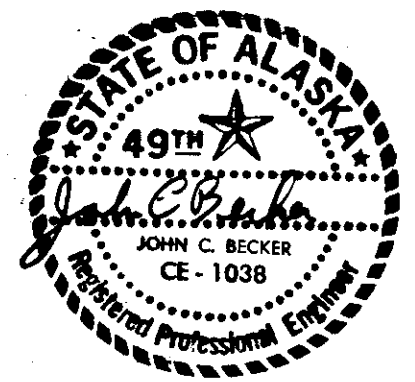
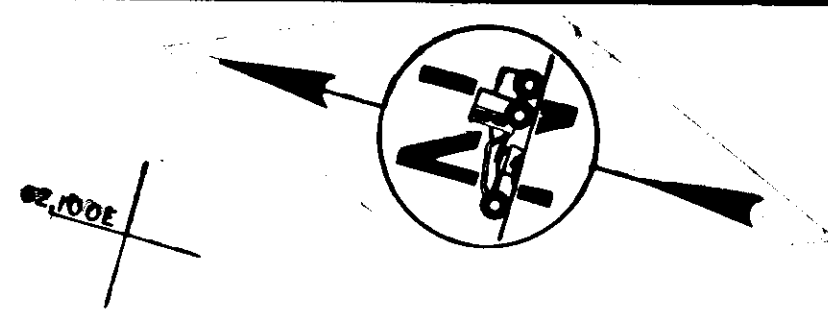
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
BY	DATE	CHANGE	ALASKA	RS-0918(3)	1986	13	38
W.D.A.	7/29/87	ADD NOTE TO LOT 5					



DRAINAGE STRUCTURE SUMMARY						
Structure	Type	Location	Offset		Elevation	
			Left	Right	Grate/Rim	Invert
S-4	Field	33+06	26.5'		24.3	21.83 22.4
S-5	Type "A"	33+08 12		14'	25.69	23.2 22.5
S-6	Field	39+04	46'		25.6	25.6 25.4
S-7	Field	38+84	46'		25.6	21.1 21.4

PIPE SUMMARY						
Pipe	Size	Length	From		To	
			Struct / Sta.	Elev.	Struct / Sta.	Elev.
P-4	29"x18"	54'	S-4	21.83 22.4	27' Rt. 33+19	21.78 22.1
P-5	18"	14' 16"	S-5	23.2 22.5	27' Rt. 33+16	23.0 22.2
P-6	18"	18'	S-6	25.6 25.4	S-7	25.4 21.4
P-7	24"	80'	S-7	21.1 21.4	35' Rt. 38+84	20.3 18.9

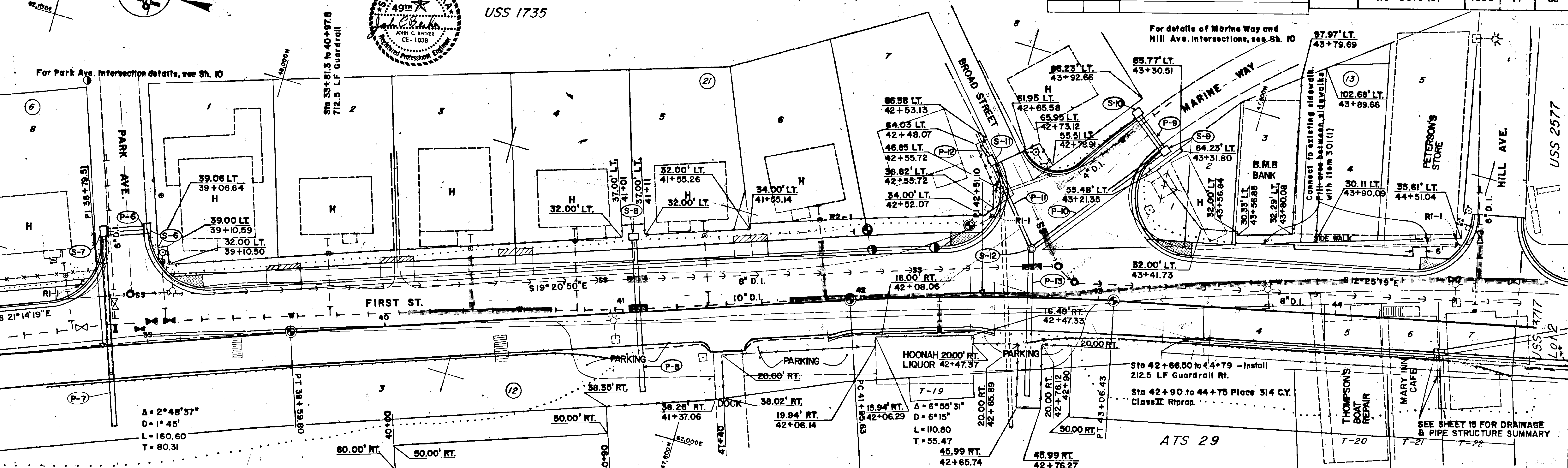




Construct Curb & Gutter Rt. side
Sta. 41+85 to 42+55 - 70 LF

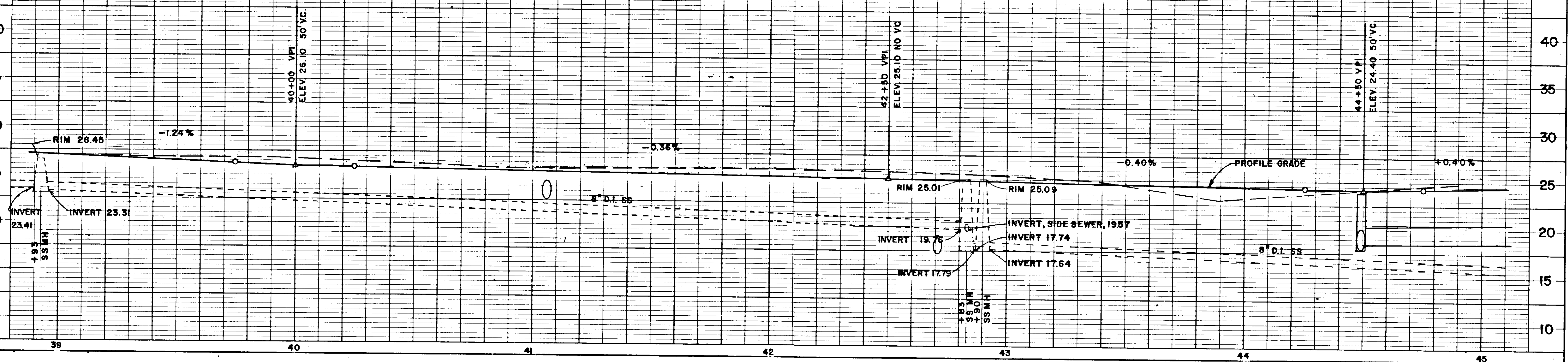
USS 1735

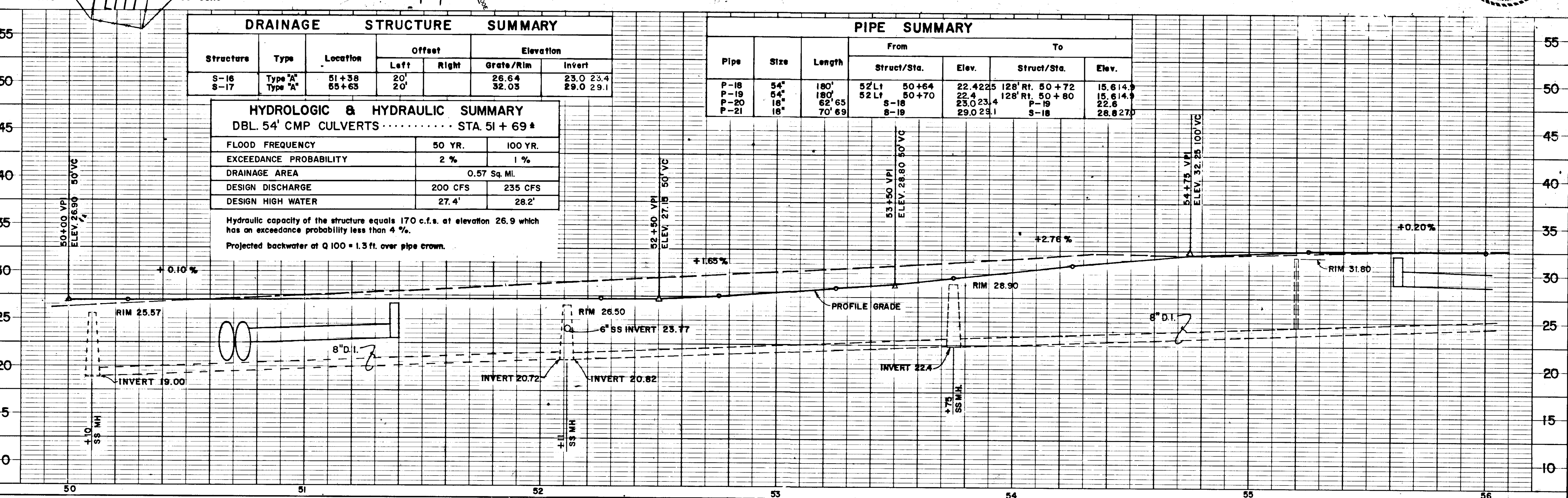
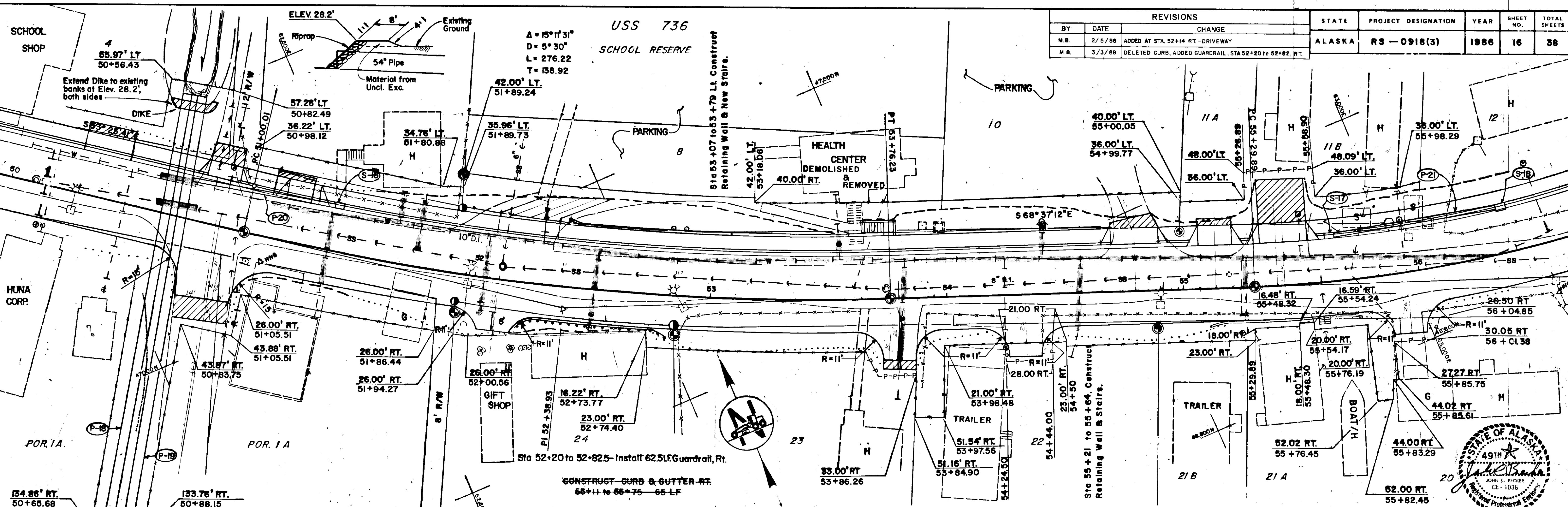
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
BY	DATE	CHANGE	ALASKA	RS-0918 (3)	1986	14	38
M.B.	12/17/87	ADDED DRAINAGE & PIPE AT 36' LT. 44+49, CHANGED GR.					



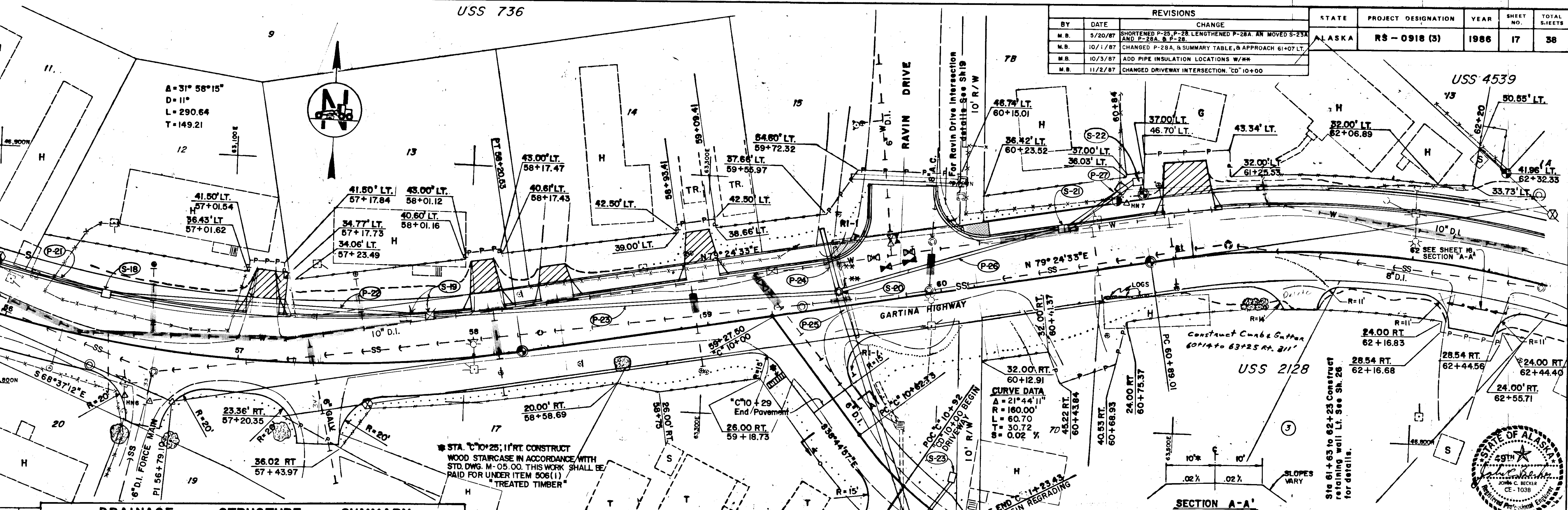
DRAINAGE STRUCTURE SUMMARY						
Structure	Type	Location	Offset		Elevation	
			Left	Right	Grate/Rim	Invert
S-8	Field	41+06	31'		25.9	22.9
S-9	Field	43+25	64'		25.0	21.8
S-10	Field	43+12	79'		25.0	22.0
S-11	Field	42+54	58'		25.3	18.7
S-12	M. H.	42+71	20'		25.42	17.3

PIPE SUMMARY						
Pipe	Size	Length	From		To	
			Struct/Sta.	Elev.	Struct/Sta.	Elev.
P-8	24"	64'	S-8	22.9	33' Rt. 41+06	21.8
P-9	18"	18'	S-10	22.0	S-9	21.8
P-10	18"	68'	S-9	21.8	S-12	21.1
P-11	18"	40'	S-11	18.7	S-12	18.4
P-12	12"	8'	Existing 12"		S-11	18.7
P-13	24"	60'	S-12	17.3	41' Rt. 42+71	16.7





REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
BY	DATE	CHANGE					
M.B.	5/20/87	SHORTENED P-25, P-28 LENGTHENED P-28A, AN MOVED S-23A AND P-28A, & P-28.					
M.B.	10/1/87	CHANGED P-28A, & SUMMARY TABLE, & APPROACH 61+07 LT.					
M.B.	10/3/87	ADD PIPE INSULATION LOCATIONS W/HH					
M.B.	11/2/87	CHANGED DRIVEWAY INTERSECTION, "CD" 10+00	ALASKA	RS - 0918 (3)	1986	17	38

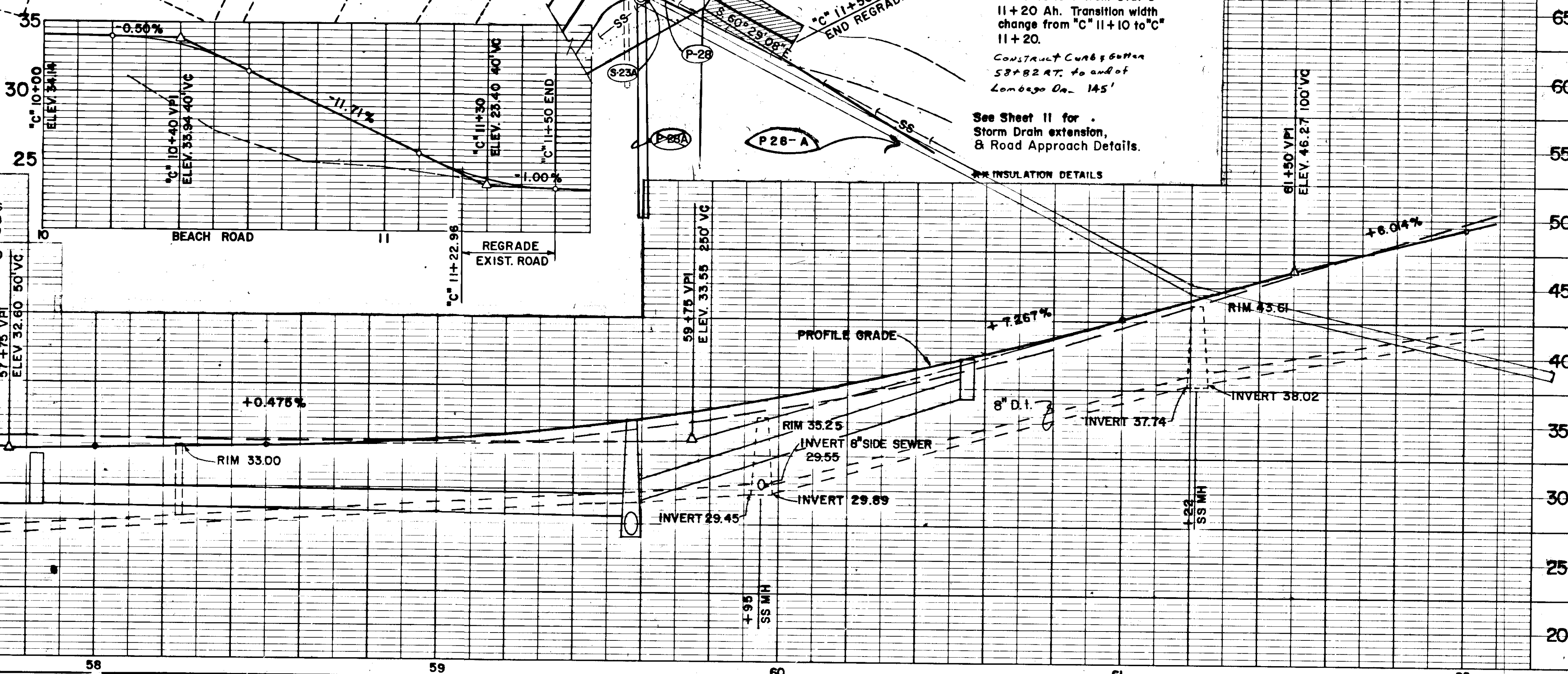


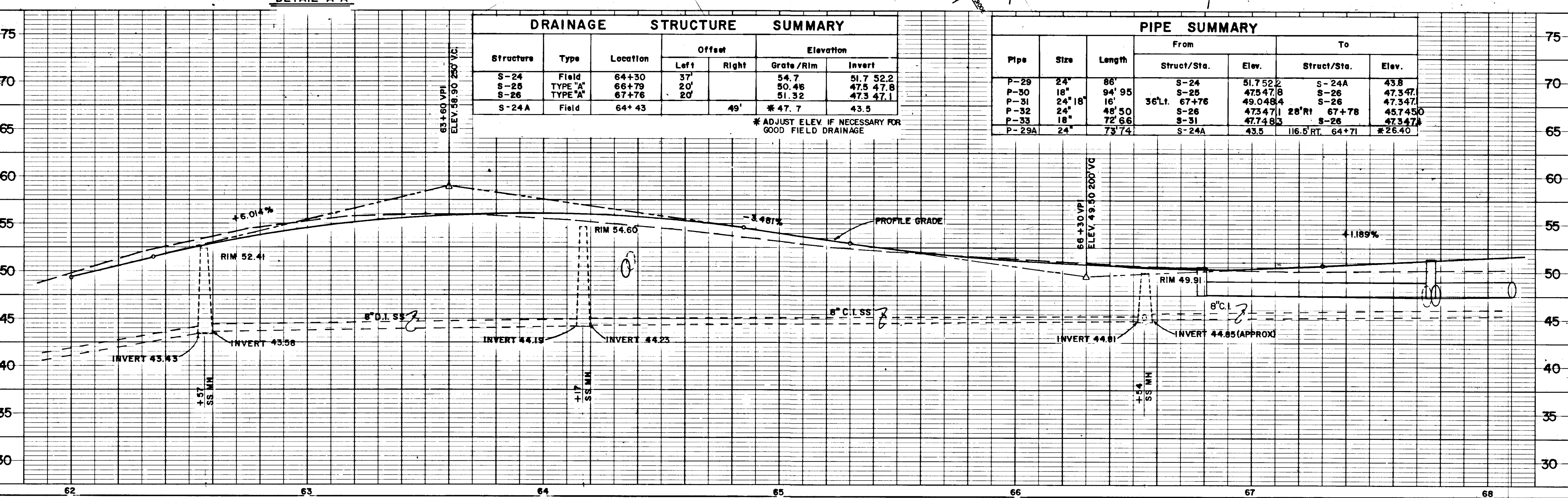
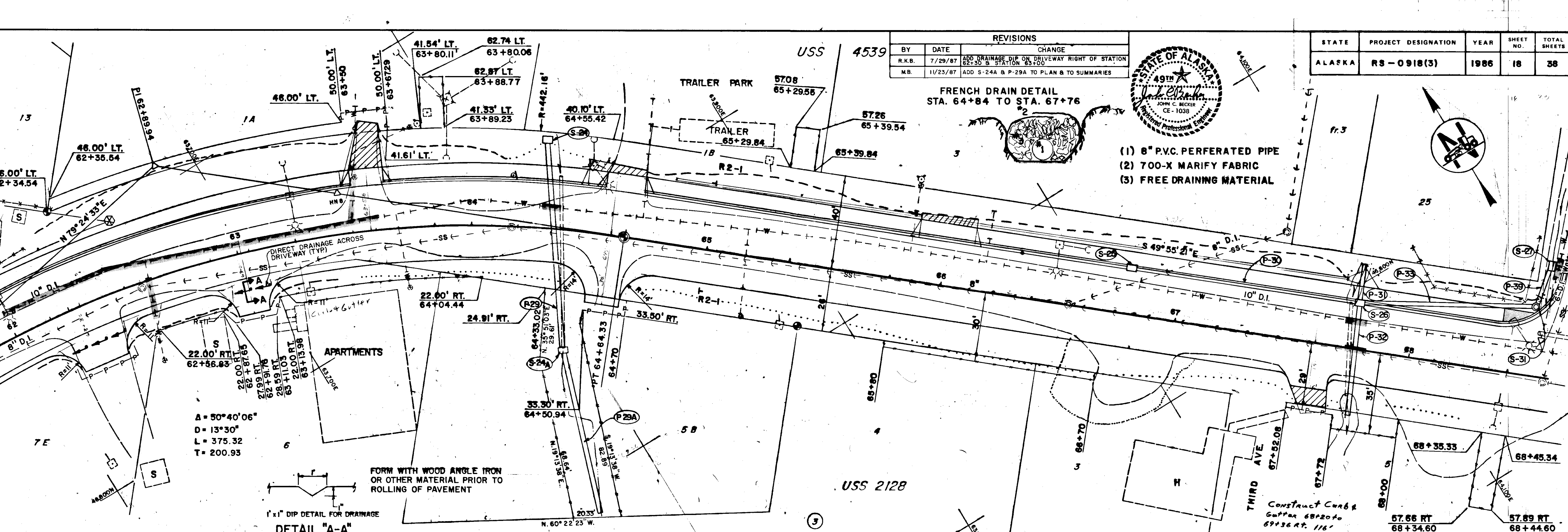
DRAINAGE STRUCTURE SUMMARY

Structure	Type	Location	Offset		Elevation	
			Left	Right	Grate/Rim	Invert
S-18	Type "A"	56+40.38	20'		32.31	28.8 27.0
S-19	Type "A"	57+83.70	20'		32.28	28.5 25.6
S-20	M.H.	59+57.54	6'		35.14	25.3 27.7
S-21	Type "A"	60+55.58	20'		39.60	36.6 37.1
S-22	Field	60+89.81	35' 29		42.1	39.7 39.0
S-23	Field	69+93.95		78' 74	24.5	21.8 22.2
S-23A	M.H.	69+73		100'	26.0	21.3

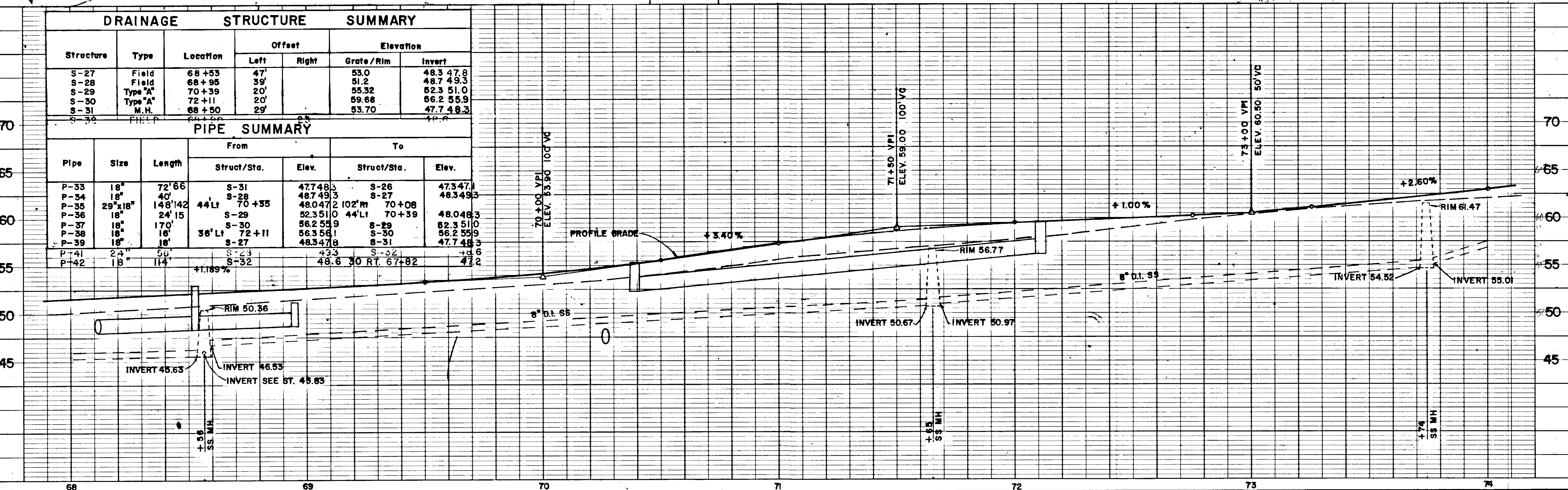
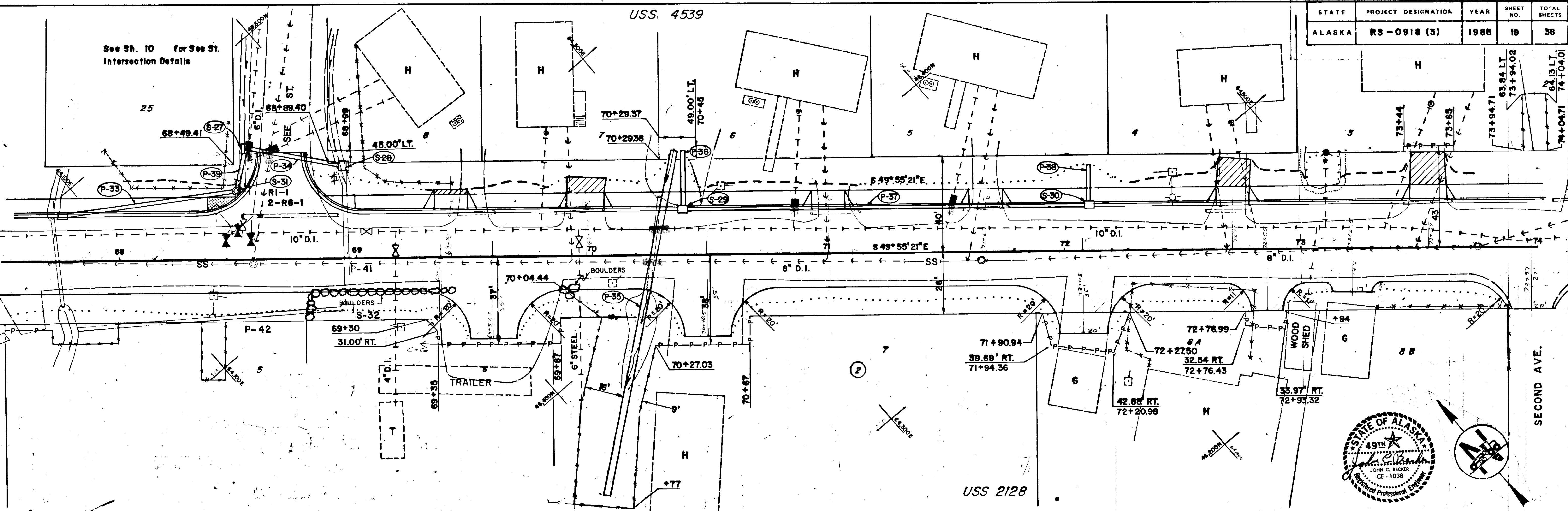
PIPE SUMMARY

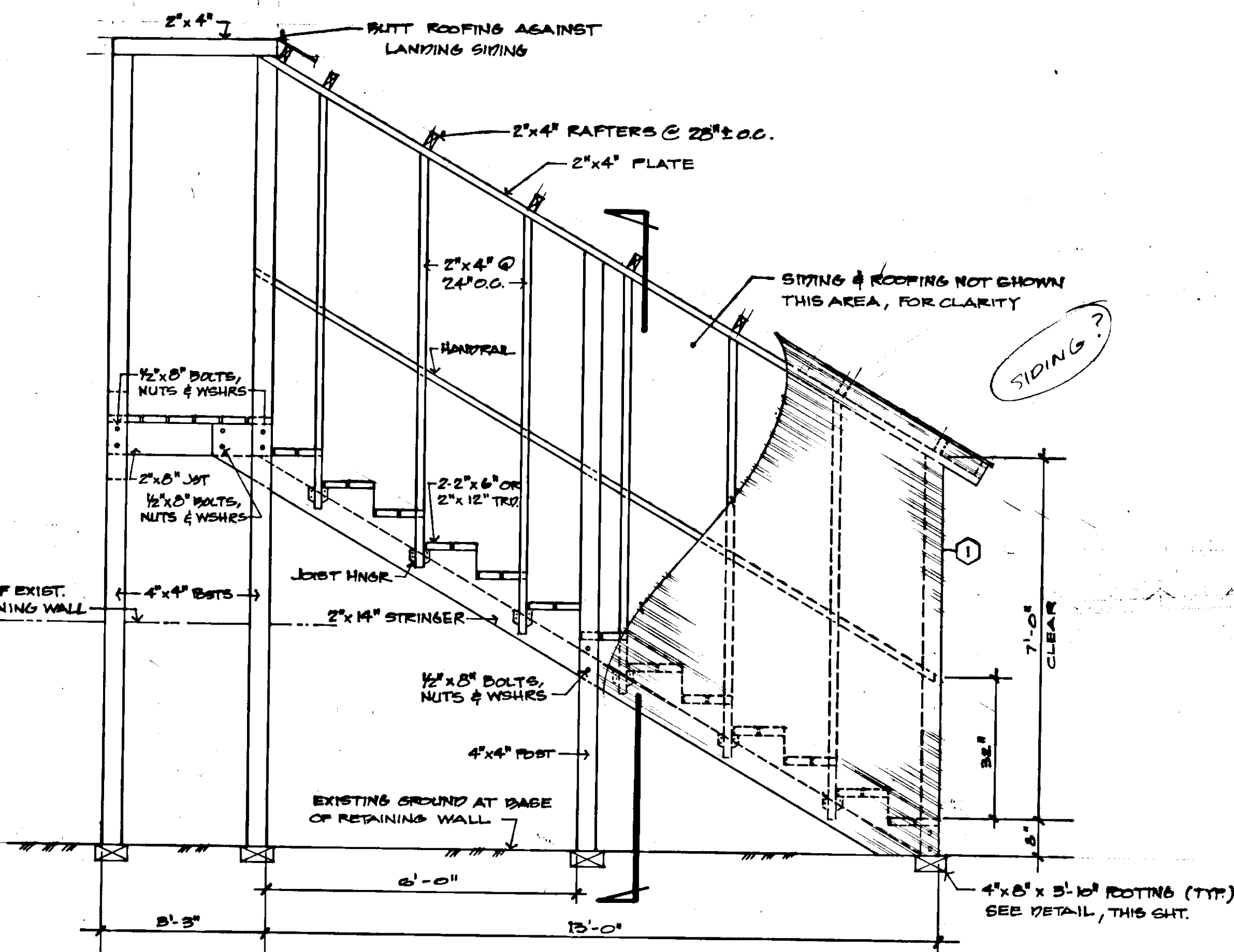
Pipe	Size	Length	From		To	
			Struct / Sta.	Elev.	Struct / Sta.	Elev.
P-21	18"	70' 60	S-17	29.0	S-18	28.8
P-22	18"	134' 120	S-18	28.827	S-19	28.5256
P-23	18"	170' 182	S-19	28.5256	S-20	27.6718
P-24	36"	26'	S-20	32.1	S-20	26.1320
P-25	18"	107' 101	S-20	25.3277	S-23A	21.5
P-26	18"	96' 107	S-21	36.6371	S-20	27.6320
P-27	18"	34' 24	S-22	39.7390	S-21	36.6371
P-28	18"	50' 28	S-24 23	22.0222	S-23A	21.8
P-28A	36"	64' 285	S-23A	21.4	"C" 11+33	20.318
PVC	6"		S-22	41.1	CMP INLET	



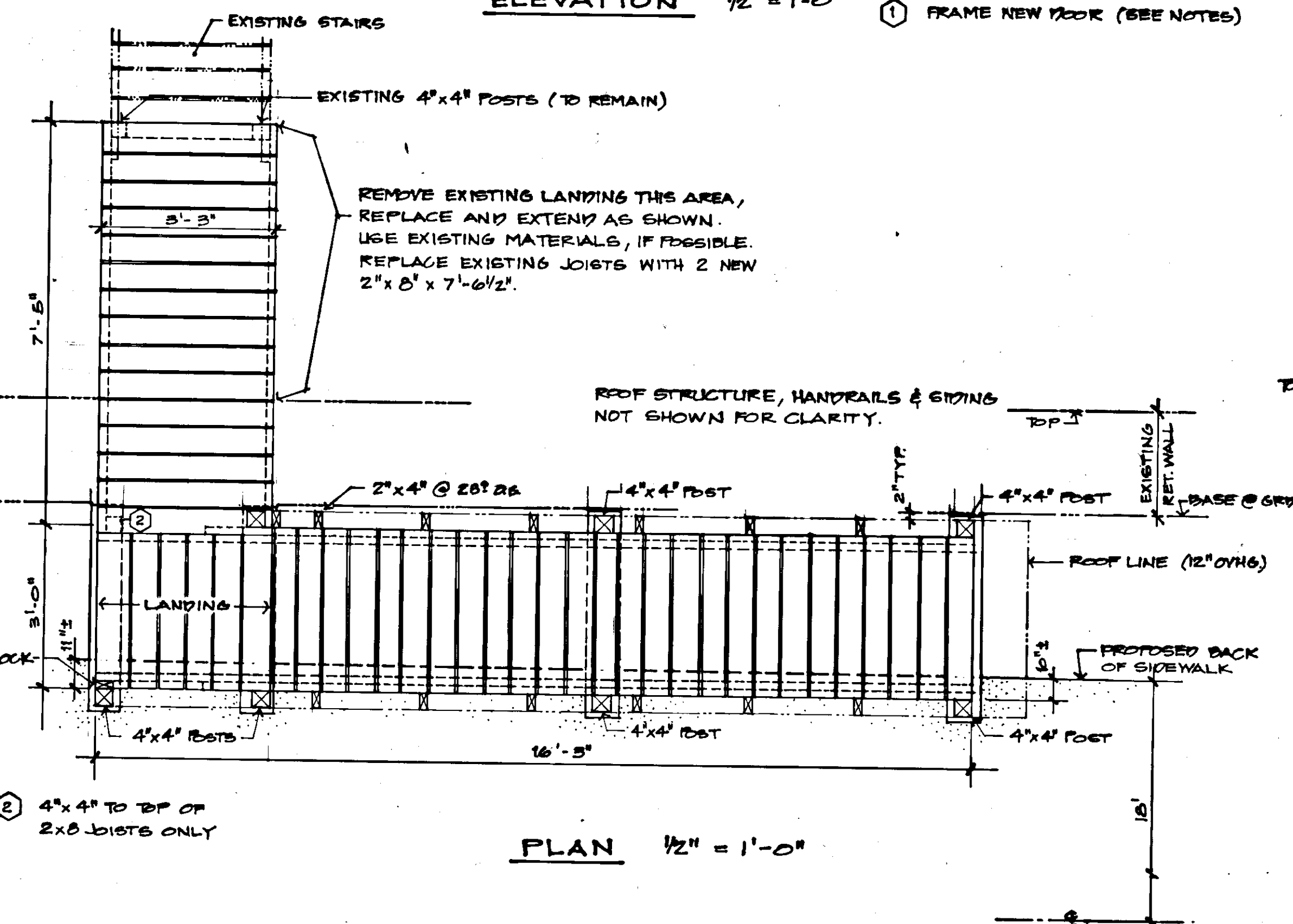


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	1985	19	38

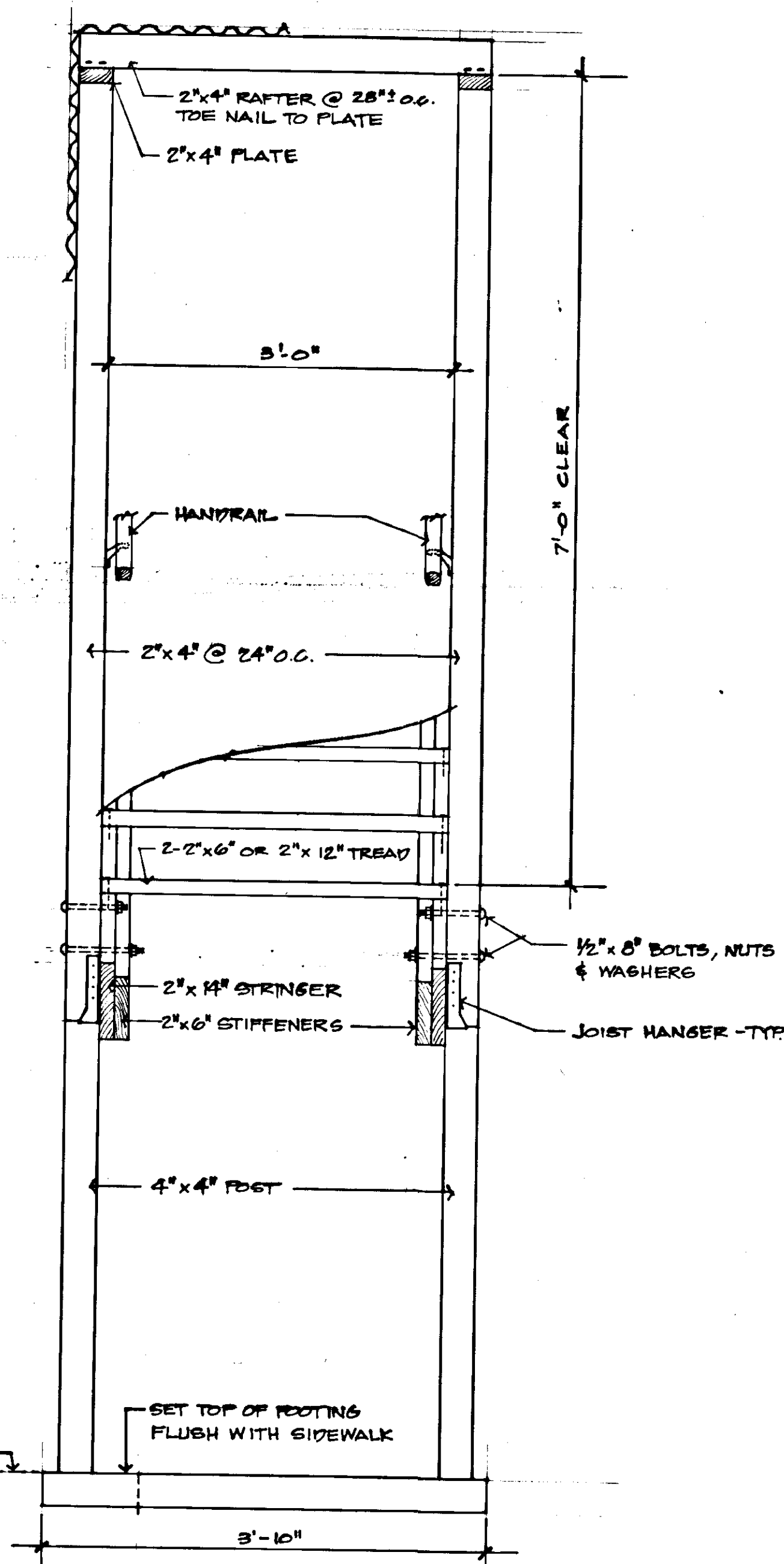




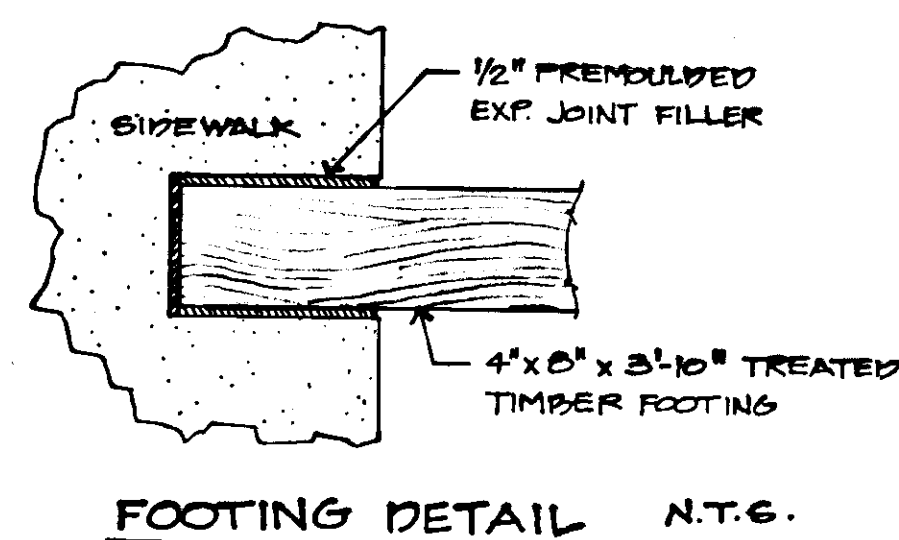
ELEVATION 1/2" = 1'-0" ① FRAME NEW DOOR (SEE NOTES)



PLAN 1/2" = 1'-0"



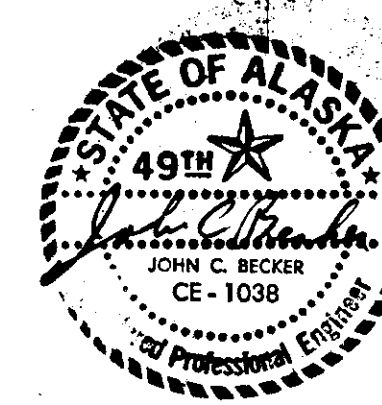
SECTION 1" = 1'-0"



STAIRWAY MODIFICATION — STA. 30+05 LT.

NOTES

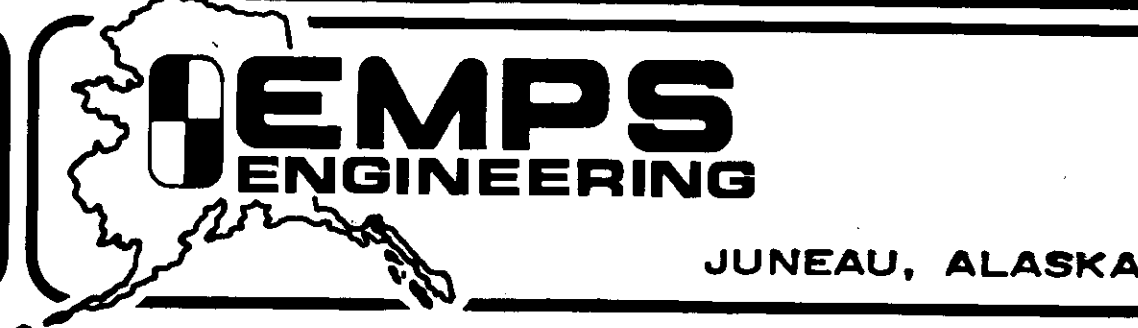
1. All pertinent details and notes on State of Alaska, Department of Transportation and Public Facilities Standard Drawing M-05.00 shall apply to the stairway modifications. In cases of conflicts this drawing shall apply. All other details shall conform to the requirements of the Uniform Building Code, current edition.
2. The contractor shall remove that portion of the existing stairs below the landing and enough of the landing to enable him to place the new 2x8 joists. He shall provide temporary support for the upper stairs and for the framing of the landing walls and roof.
3. Except as noted below, the contractor may re-use tread materials, framing, siding and roofing for the new landing. Any reused materials shall be in good condition, and their use shall be approved by the engineer. All hardware and fasteners shall be new materials.
4. All 4x4 posts, joists, stringers, footings, and all materials in the new lower stairs shall be new.
5. The existing door and hardware shall be removed and stored. A new door opening shall be framed to fit the existing door. The door shall be re-hung using existing hardware. All fasteners shall be new. The area surrounding the framed opening shall be sheathed with 1/2 in. exterior grade plywood (CDX).
6. Treatment: Delete the reference to creosote in Note 2 of Drawing M-05.00. The footings and timber in contact with the ground shall be treated with oil based (pentachlorophenol) preservative.
7. New siding and roofing shall be 4 oz./sq. ft. translucent corrugated (blue or green tint) fiberglass. It shall be installed in accordance with the manufacturer's recommendations.
8. All leftover materials shall be disposed of by the contractor in accordance with Section 202 of the Specifications.
9. The roof and both walls of the landing and stairs are to be completely enclosed. Siding is to extend to the bottom of stringers and joists.



DATE	BY	REVISION

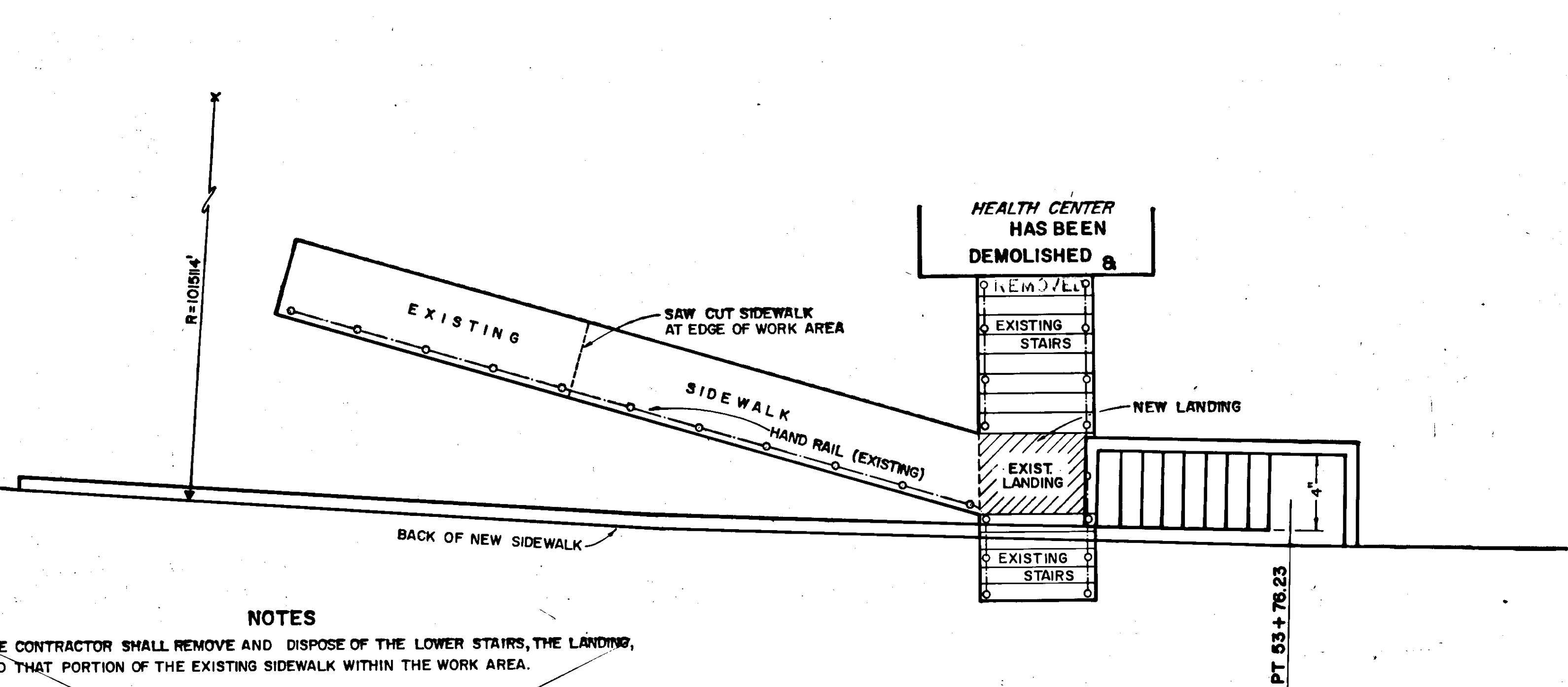
PROJECT RS-0918(3)
HOONAH ARTERIAL
 HOONAH SEAFOODS TO WHITE ALICE ROAD

Desgn: JCB
 Drawn: SEGM
 Chkd: JCB
 Date: APR 1987
 Ref:
 SCALE: AS SHOWN



STRUCTURES

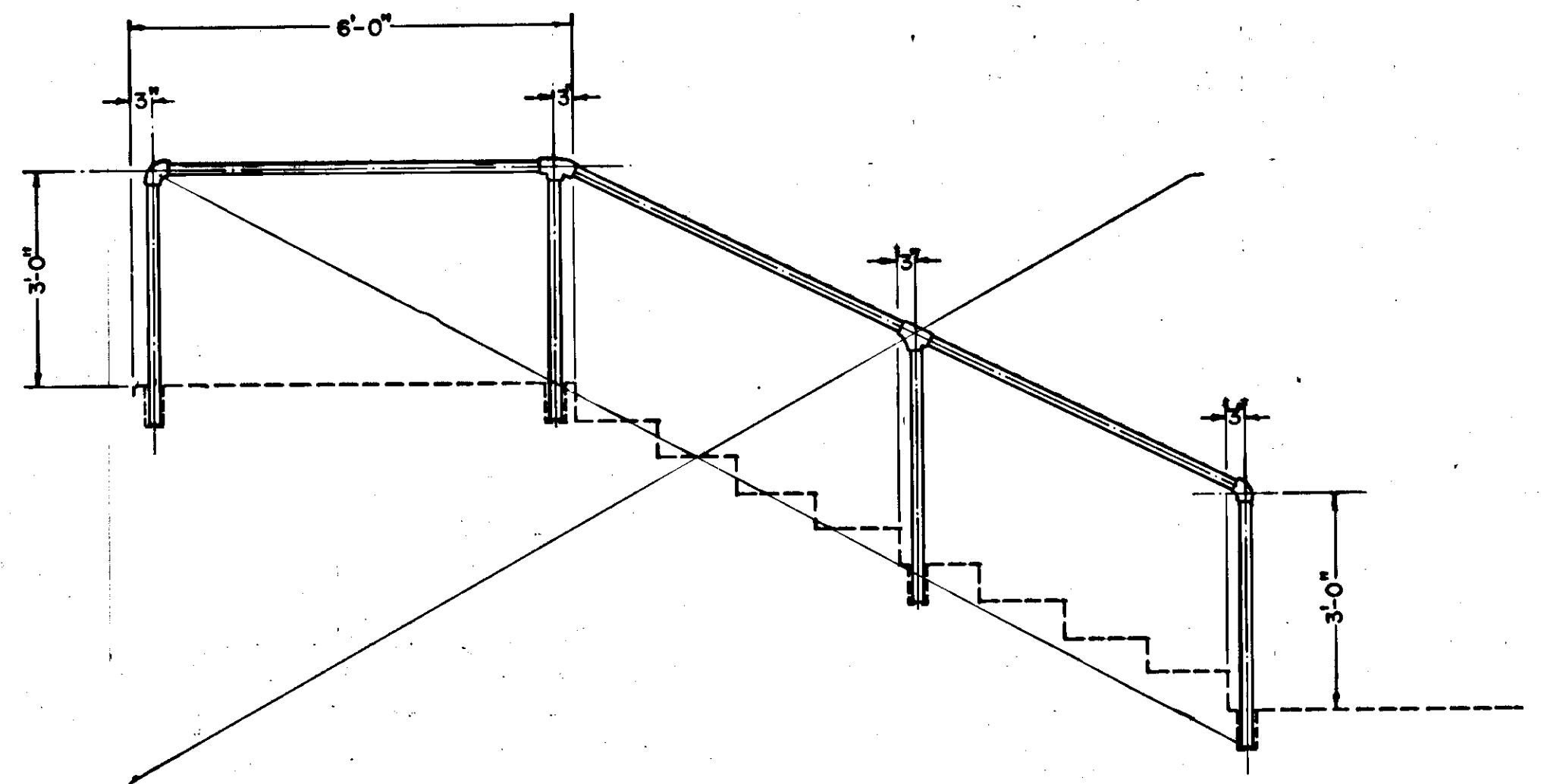
Sheet
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 Proj. No. 711



NOTES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE LOWER STAIRS, THE LANDING, AND THAT PORTION OF THE EXISTING SIDEWALK WITHIN THE WORK AREA.
2. THE PIPE HANDRAIL ADJACENT TO THE EXISTING SIDEWALK WITHIN THE WORK AREA SHALL BE REMOVED AND STOCKPILED BY THE CONTRACTOR.
3. AFTER COMPLETION OF THE RETAINING WALL AND NEW STAIRS, A NEW LANDING SHALL BE CONSTRUCTED. THE LANDING SHALL EXTEND FROM THE BACK OF WALL "D" TO THE FOOT OF THE EXISTING UPPER STAIRS. THE REMOVED PORTION OF THE EXISTING SIDEWALK SHALL BE REPLACED AND THE PIPE HANDRAIL REINSTALLED.
4. NEW PIPE HANDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING M-0100.
5. THE LANDING, REPLACEMENT OF THE EXISTING SIDEWALK, AND THE SIDEWALK IN THE AREA FORMED BY WALL SECTIONS "E", "F", & "G" WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK.
6. CONSTRUCTION OF THE LANDING AND SIDEWALK SHALL CONFORM TO SECTION 608 OF THE SPECIFICATIONS.

SITE PLAN
SCALE: 1" = 5'-0"



HANDRAILING DETAIL
SCALE: 1/2" = 1'-0"

DELETED STAIRS ONLY
RETAINING WALL & STAIRS
Sta. 53 + 07.21 to Sta. 53 + 81.64 Lt.

RETAINING WALL
Sta. 52 + 37.5 to 54 + 66

BILL of BARS
HEALTH CENTER WALL

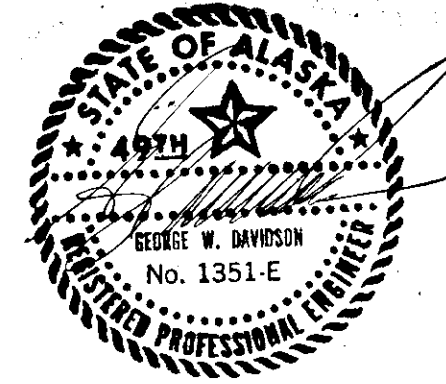
MARK	NO.	SIZE	LENGTH	TYPE	MARK	NO.	SIZE	LENGTH	TYPE	BENDING DIAGRAMS
301	11	3	3'-8"	---	465	9	4	4'-6"	---	
433	7	4	2'-11"	BENT	466	19	4	5'-4"	---	
436	18	4	4'-7"	BENT	467	15	4	7'-6"	BENT	
437	10	4	2'-10"	---	468	14	4	14'-0"	---	
438	33	4	3'-10"	BENT	469	14	4	5'-0"	---	
439	22	4	16'-8"	---	470	40	4	2'-11"	BENT	
440	9	4	3'-7"	BENT	471	4	4	10'-9"	---	
441	6	4	16'-9"	---	472	4	4	2'-0"	BENT	
442	18	4	3'-6"	---	473	4	4	3'-10"	BENT	
443	2	4	9'-0"	---	474	4	4	2'-9"	BENT	
444	2	4	3'-6"	---	475	5	4	3'-8"	---	
445	5	4	1'-10"	---	476	2	4	3'-8"	---	
446	32	4	3'-0"	---	477	8	4	4'-10"	---	
447	2	4	8'-2"	---	478	2	4	1'-6"	---	
448	16	4	17'-6"	---	479	2	4	4'-8"	---	
449	24	4	4'-0"	---	480	2	4	3'-7"	---	
450	25	4	4'-6"	---	481	2	4	4'-8"	---	
451	10	4	16'-8"	---	482	6	4	5'-10"	---	
452	2	4	15'-2"	---	507	8	5	4'-6"	---	
453	2	4	6'-6"	---	508	9	5	6'-6 1/2"	BENT	
454	9	4	3'-10"	---	513	15	5	11'-2"	BENT	
455	5	4	4'-10"	---	514	2	5	5'-5"	BENT	
456	18	4	5'-7"	BENT	515	2	5	6'-5"	BENT	
461	2	4	5'-7"	---	516	9	5	7'-7"	BENT	
462	4	4	16'-6"	---						
463	8	4	21'-3"	---						
464	14	4	5'-8"	---						

NOTE: ALL DIMENSIONS OUT/OUT

BILL of BARS
WALL LT 62 ±

MARK	NO.	SIZE	LENGTH	TYPE	MARK	NO.	SIZE	LENGTH	TYPE	BENDING DIAGRAMS
410	12	4	6'-7 1/2"	BENT	430	4	4	2'-6"	---	
411	6	4	8'-7 1/2"	BENT	431	36	4	2'-4"	---	
412	34	4	5'-6"	BENT	432	34	4	8'-0 1/2"	BENT	
413	12	4	15'-8"	---	433	18	4	2'-11"	BENT	
414	4	4	12'-1"	---	434	4	4	15'-8 1/2"	---	
415	4	4	8'-10 1/2"	---	435	2	4	2'-4"	BENT	
416	4	4	5'-8 1/2"	---						
417	4	4	16'-5"	---						
418	47	4	5'-6"	---	503	6	5	11'-3 1/2"	BENT	
419A	32	4	16'-8"	---	504	7	5	5'-6"	---	
419D	8	4	15'-8"	---	505	34	5	11'-10 1/2"	BENT	
420A	2	4	11'-8"	---	506	8	5	8'-7 1/2"	BENT	
420D	2	4	10'-8"	---						
421A	2	4	6'-8"	---						
421D	2	4	5'-8"	---						
422	14	4	4'-6"	---						
423	8	4	5'-4 1/2"	BENT						
424	8	4	4'-0 1/2"	BENT						
425	8	4	3'-0"	---						
426	14	4	4'-4"	BENT						
427	2	4	2'-4"	BENT						
428	34	4	4'-3 3/8"	BENT						
429	28	4	15'-8"	---						

NOTE: ALL DIMENSIONS OUT/OUT



DATE	BY	REVISION

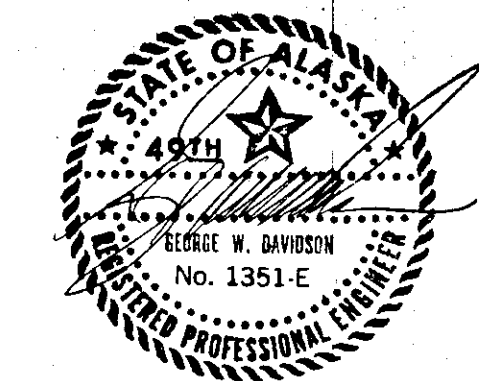
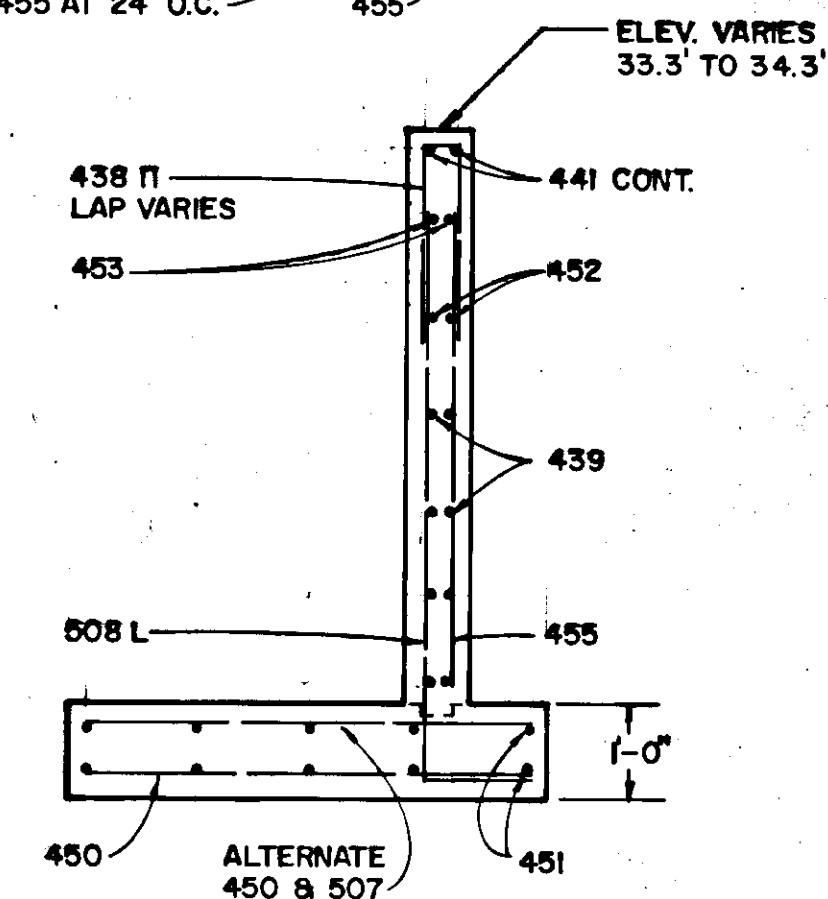
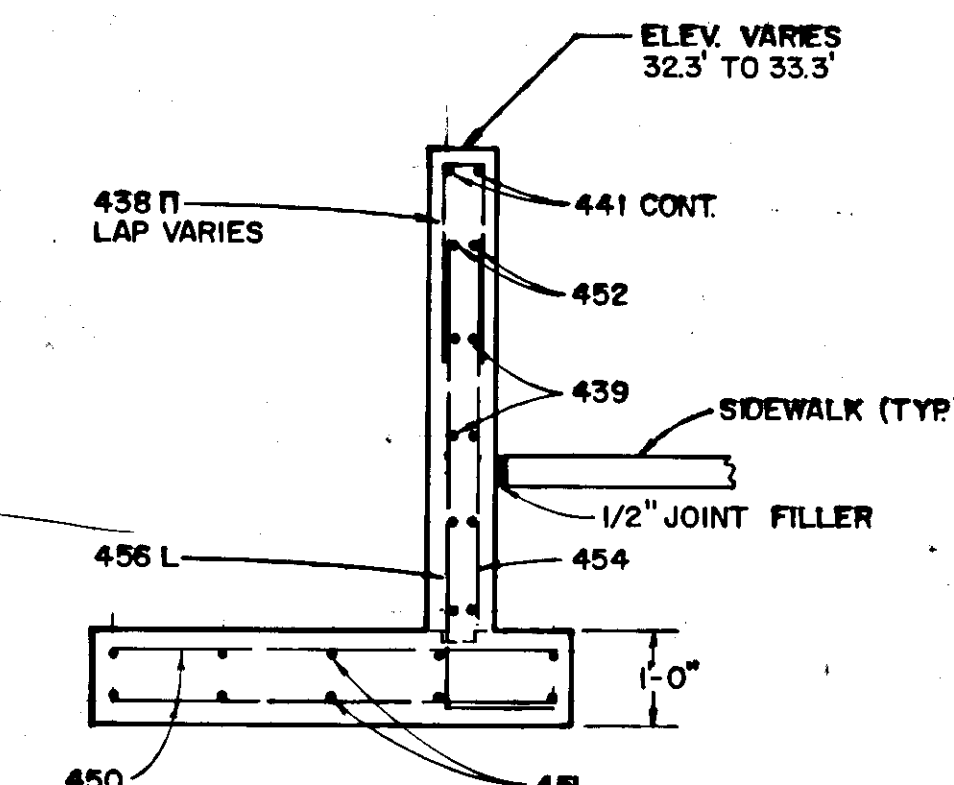
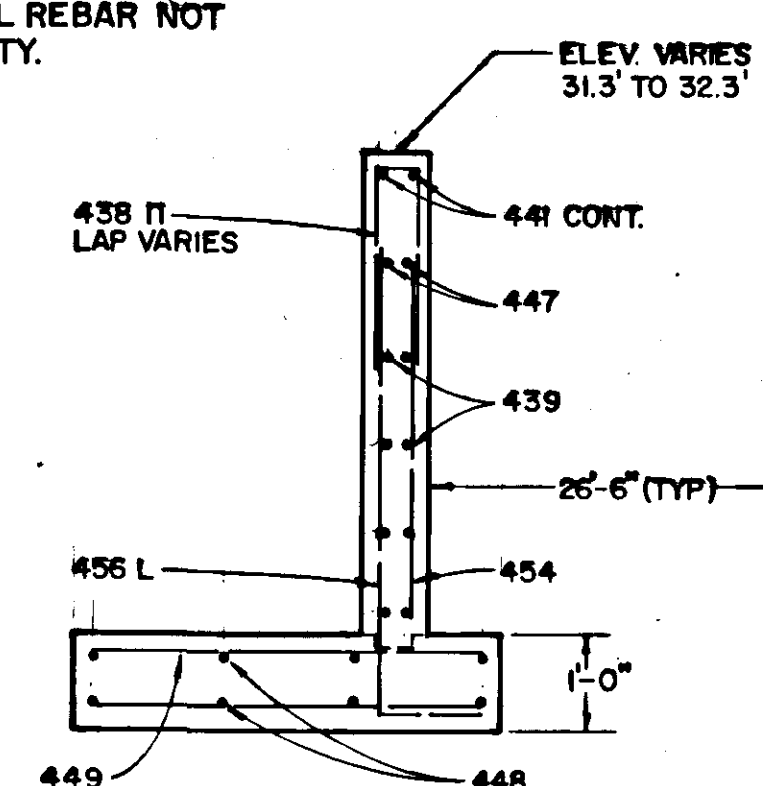
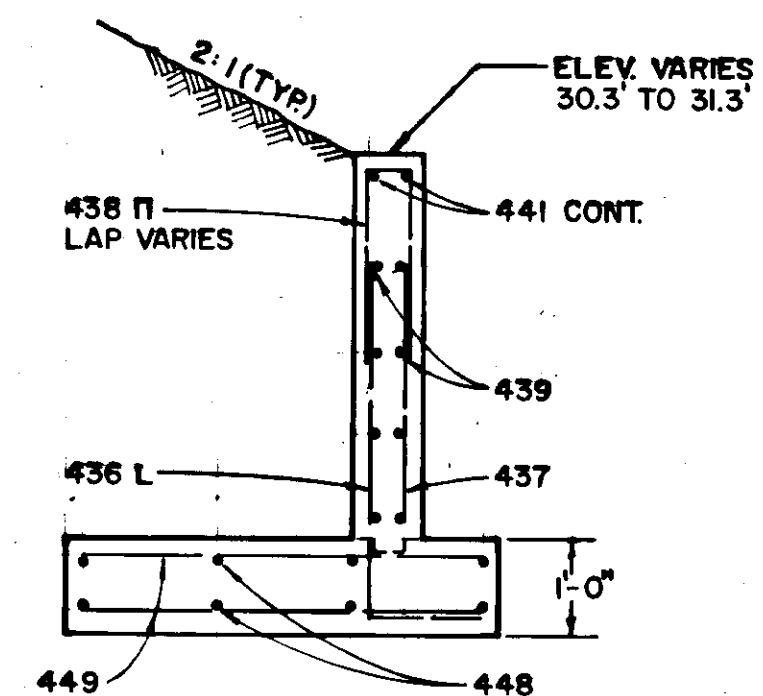
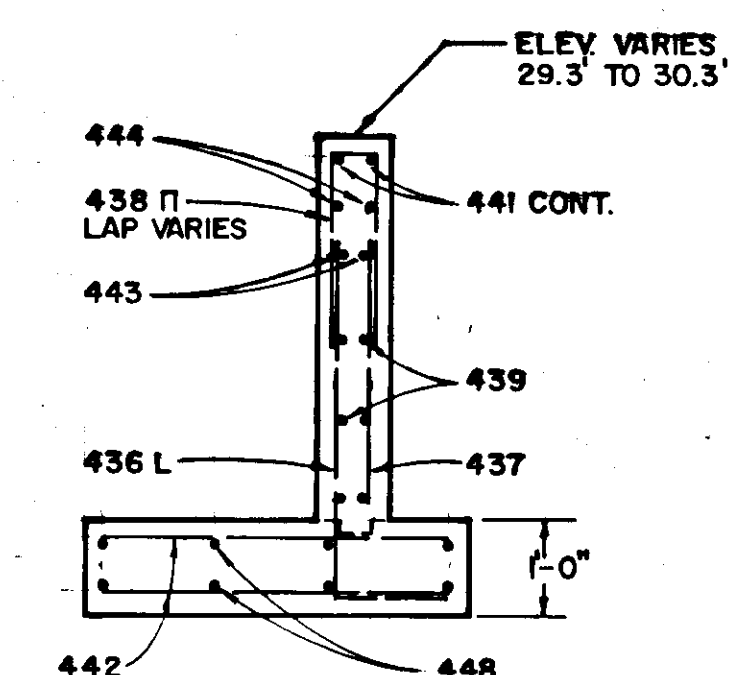
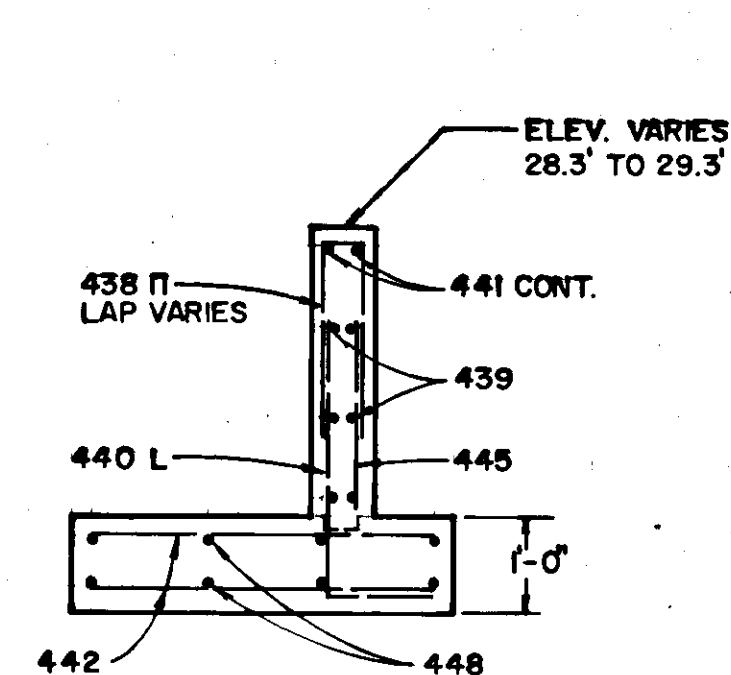
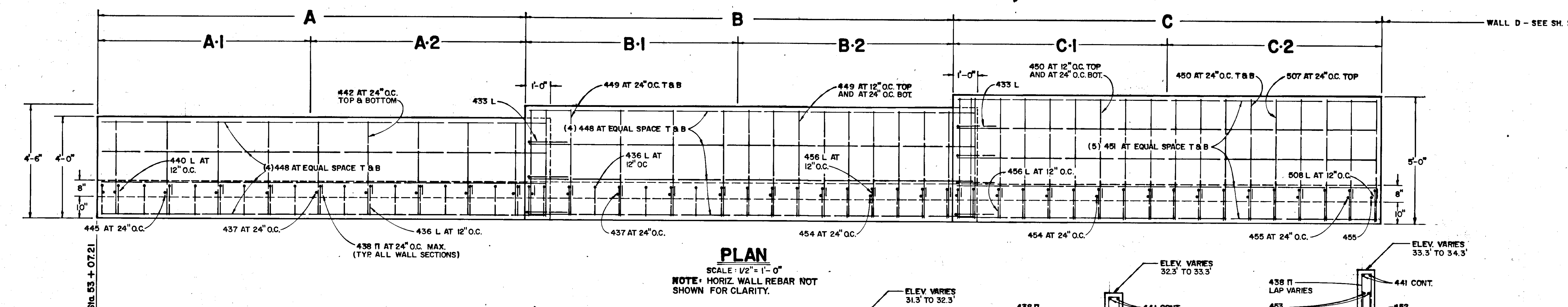
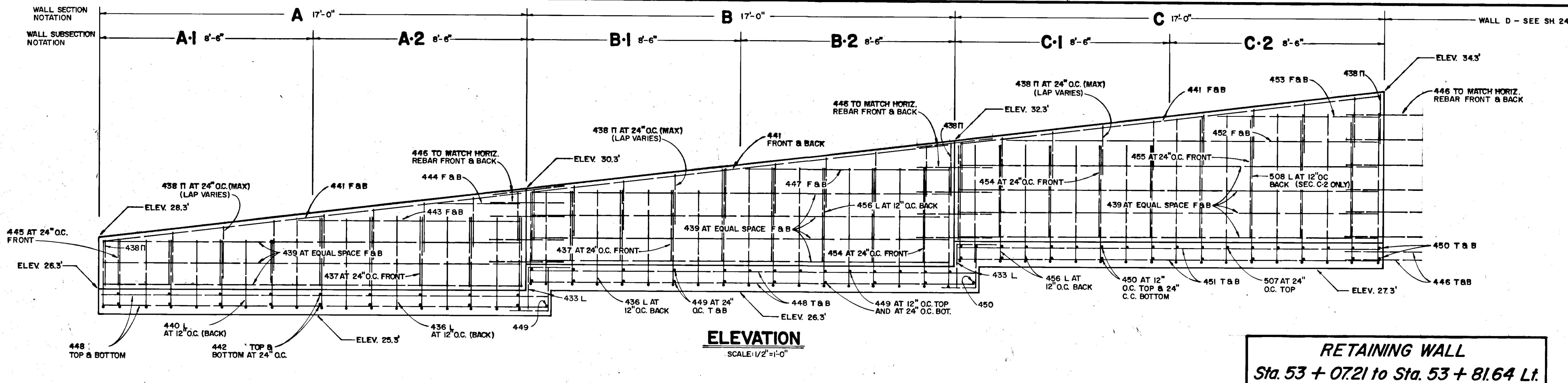
PROJECT RS - 0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: G.W.D.
Drawn: S.E.G.M.
Chkd: J.C.B.
Date: 8/86
Ref:
SCALE: AS NOTED

EMPS ENGINEERING
JUNEAU, ALASKA

STRUCTURES

Sheet
22 of 38
Proj. No. **711**



DATE	BY	REVISION

PROJECT RS - 0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

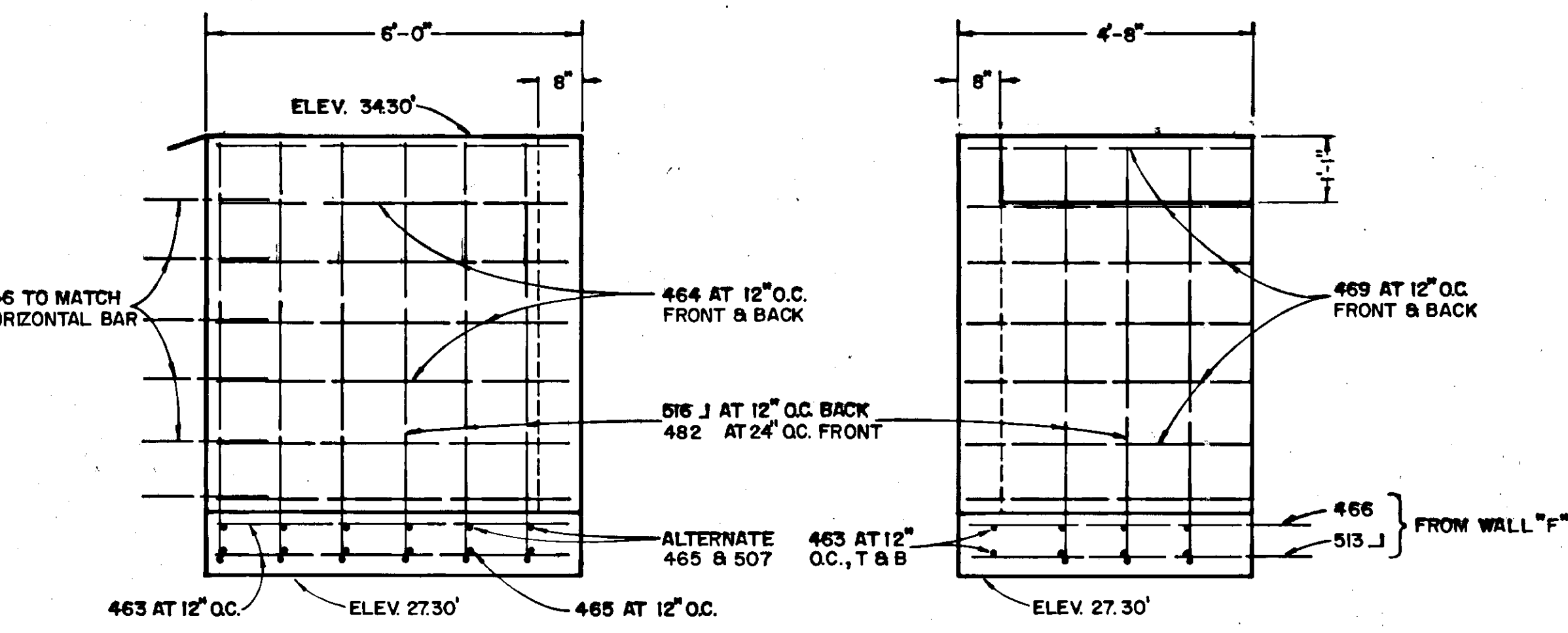
Design: G.W.D.
Drawn: SE.G.M.
Chkd: J.C.B.
Date: 8/86
Ref:
SCALE: 1/2" = 1'

EMPS
ENGINEERING
JUNEAU, ALASKA

STRUCTURES

Sheet
23 of 38
Proj. No. **711**

SEE SHEET 22 FOR GENERAL NOTES AND BILL OF BARS.

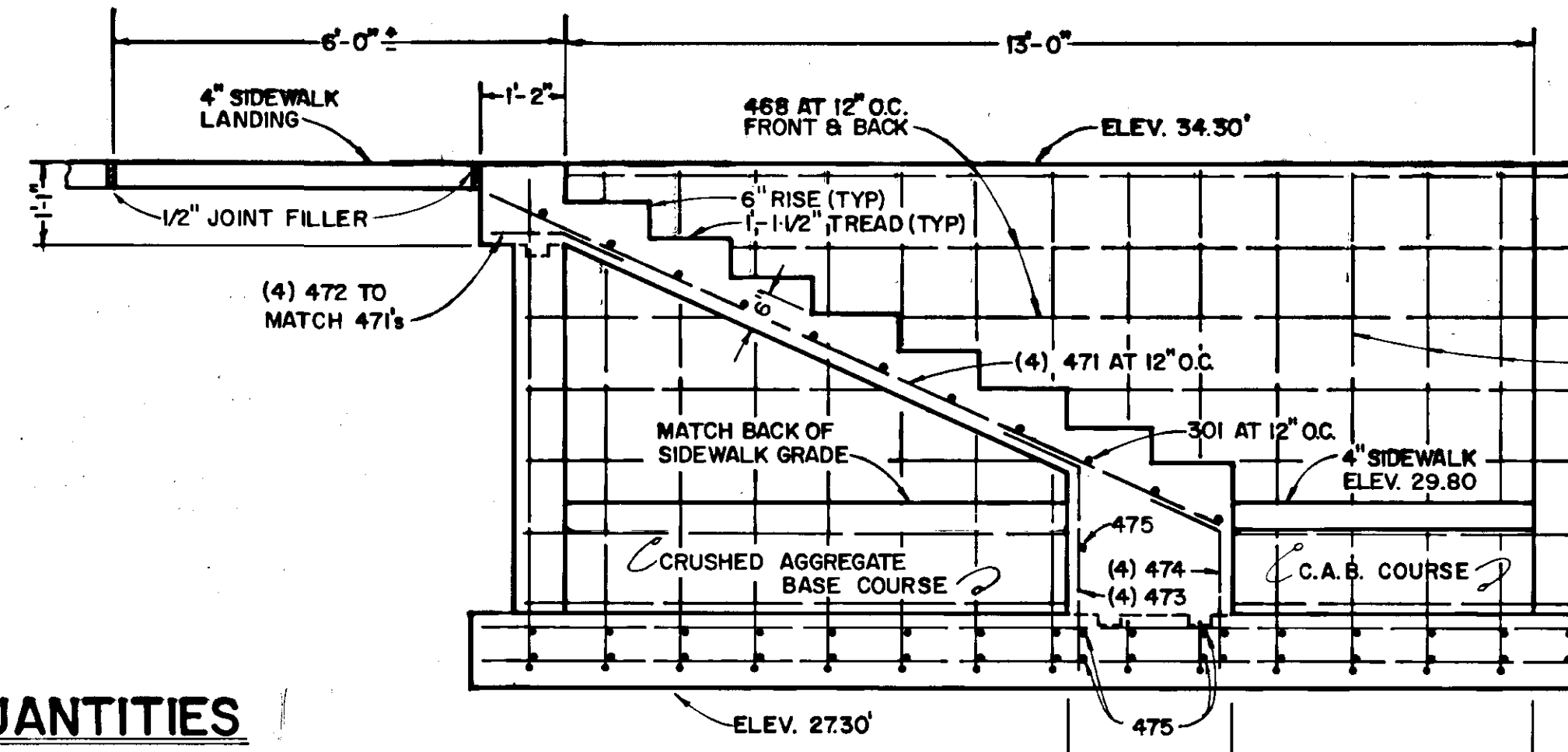


ELEVATION - WALL D
SCALE: 1/2" = 1'-0"

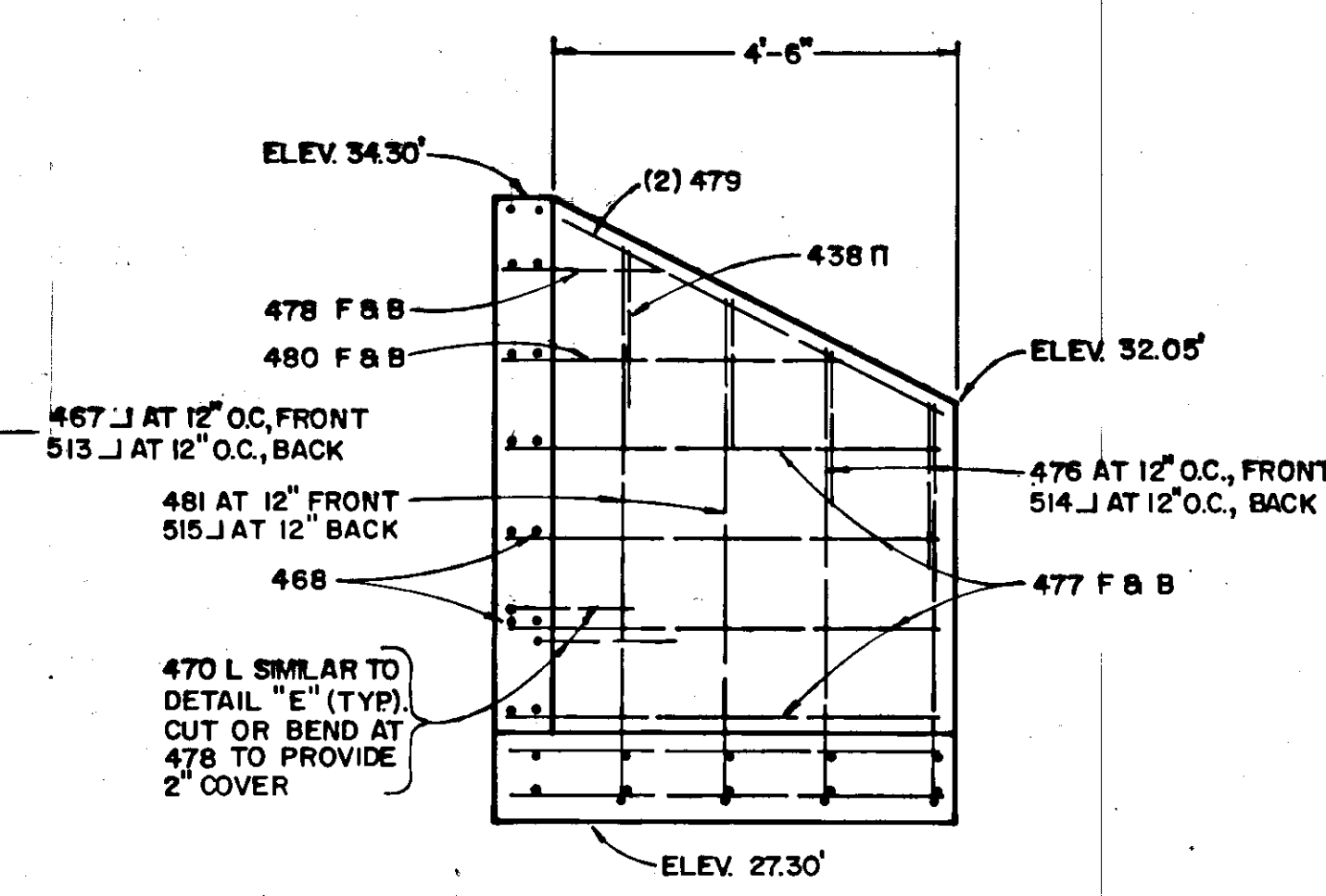
ELEVATION - WALL E
SCALE: 1/2" = 1'-0"
SEE DETAIL "E" FOR WALL HORIZONTAL STEEL TIES.

QUANTITIES

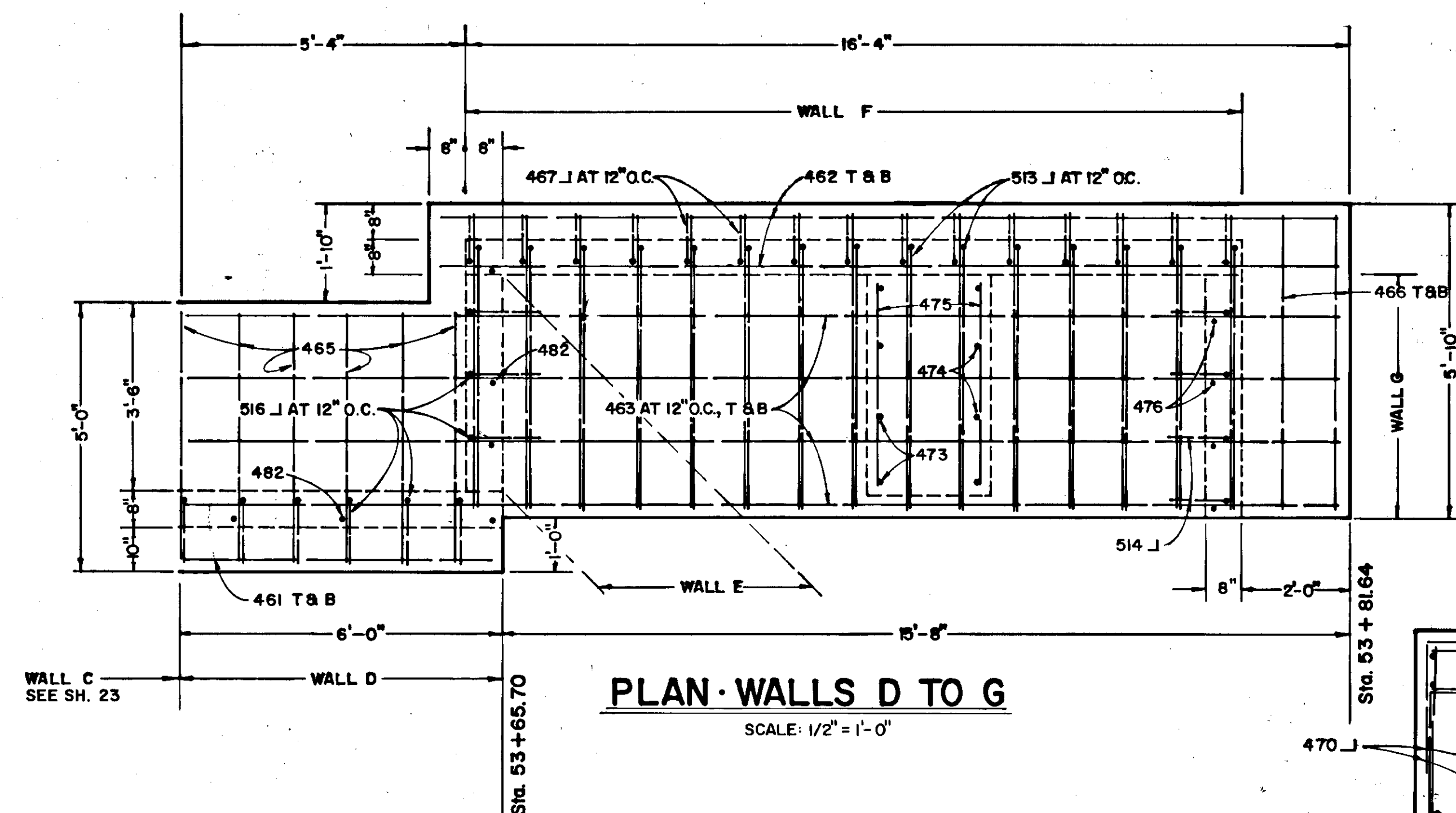
CLASS "A" CONCRETE 24.1 Cu. Yds.
REINFORCING BAR, GRADE 60 2380 lbs.



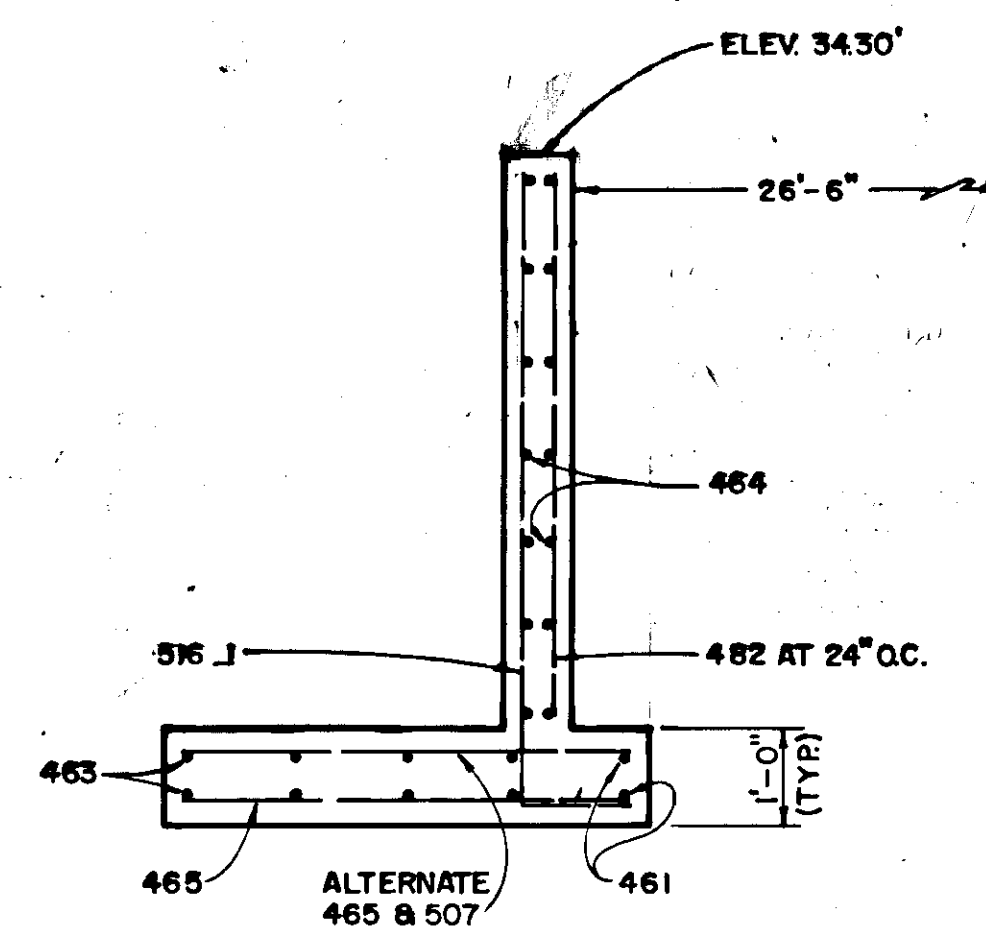
ELEVATION - WALL F
SCALE: 1/2" = 1'-0"



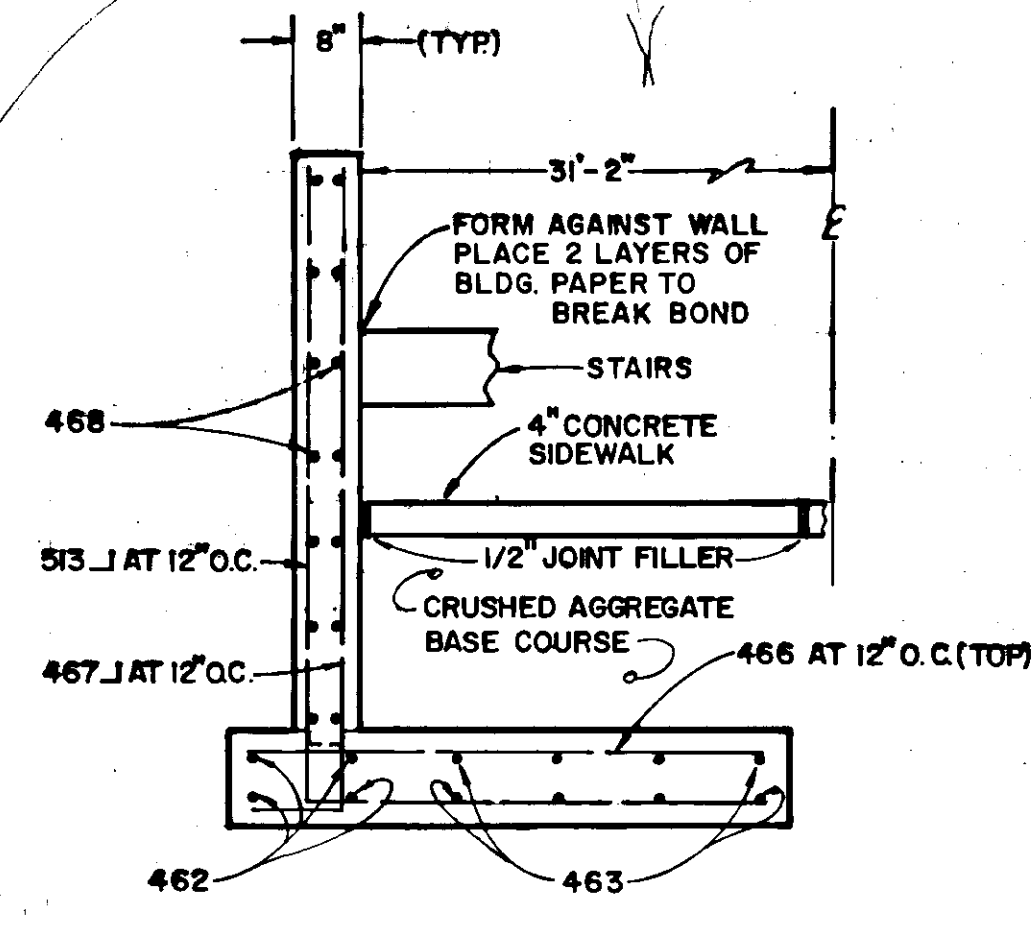
ELEVATION - WALL G
SCALE: 1/2" = 1'-0"



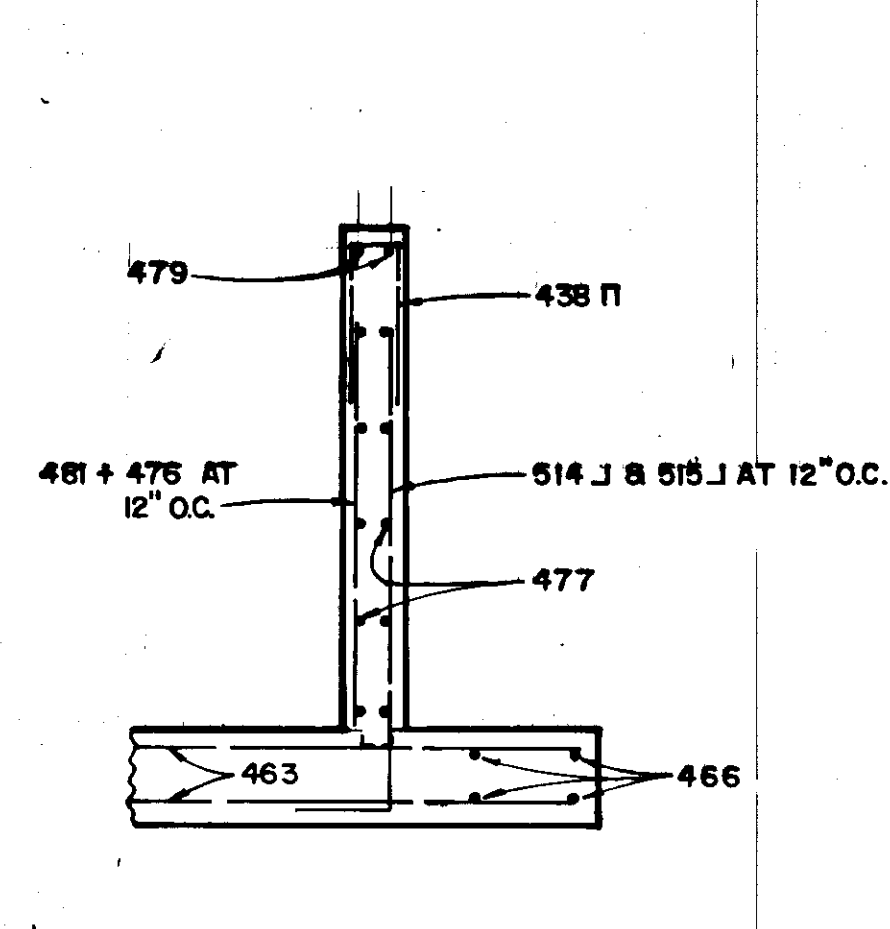
PLAN - WALLS D TO G
SCALE: 1/2" = 1'-0"



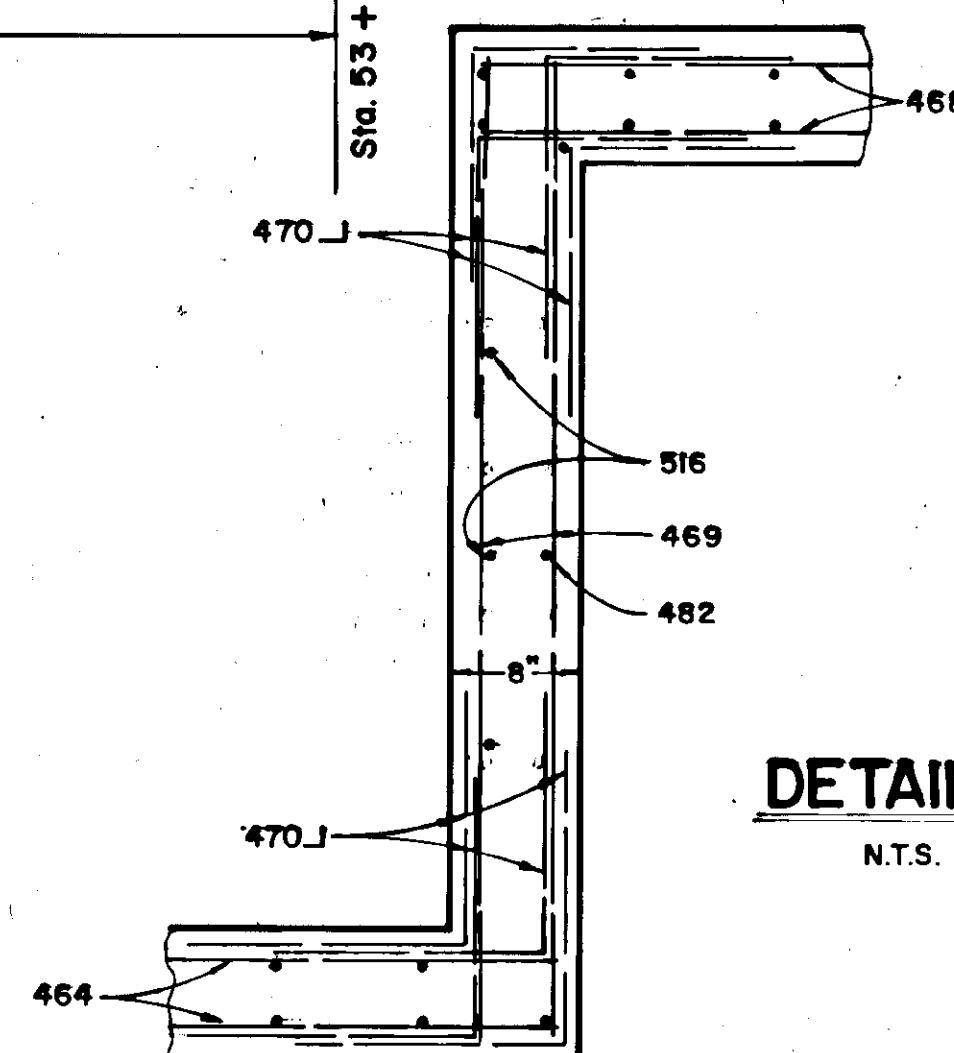
SECTION THRU WALL D
SCALE: 1/2" = 1'-0"



SECTION THRU WALL F
SCALE: 1/2" = 1'-0"

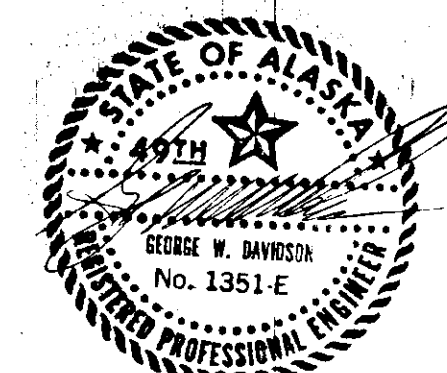


SECTION THRU WALL G
SCALE: 1/2" = 1'-0"



DETAIL E
N.T.S.

RETAINING WALL & STAIRS
Sta. 53 + 07.21 to Sta. 53 + 81.64 Lt.



SEE SHEET 22 FOR GENERAL NOTES AND BILL OF BARS.

DATE	BY	REVISION

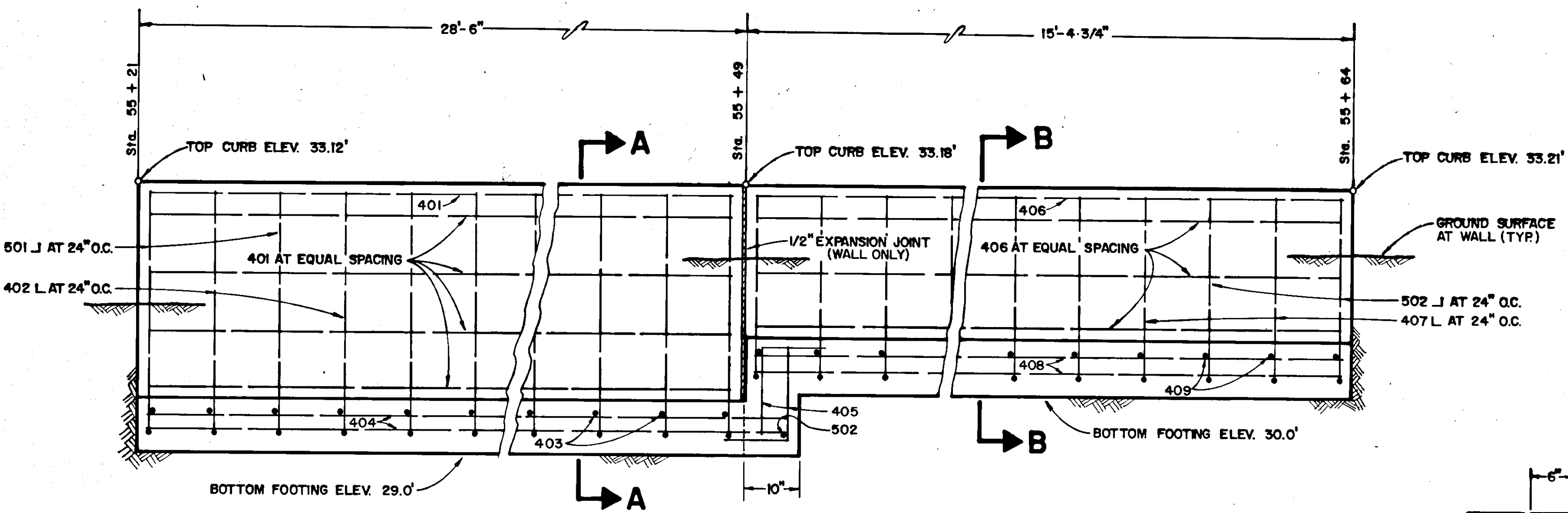
PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: G. W. B.
Drwn: SE. G. M.
Chkd: J.C.B.
Date: 8/86
Ref:
SCALE: 1/2" = 1'

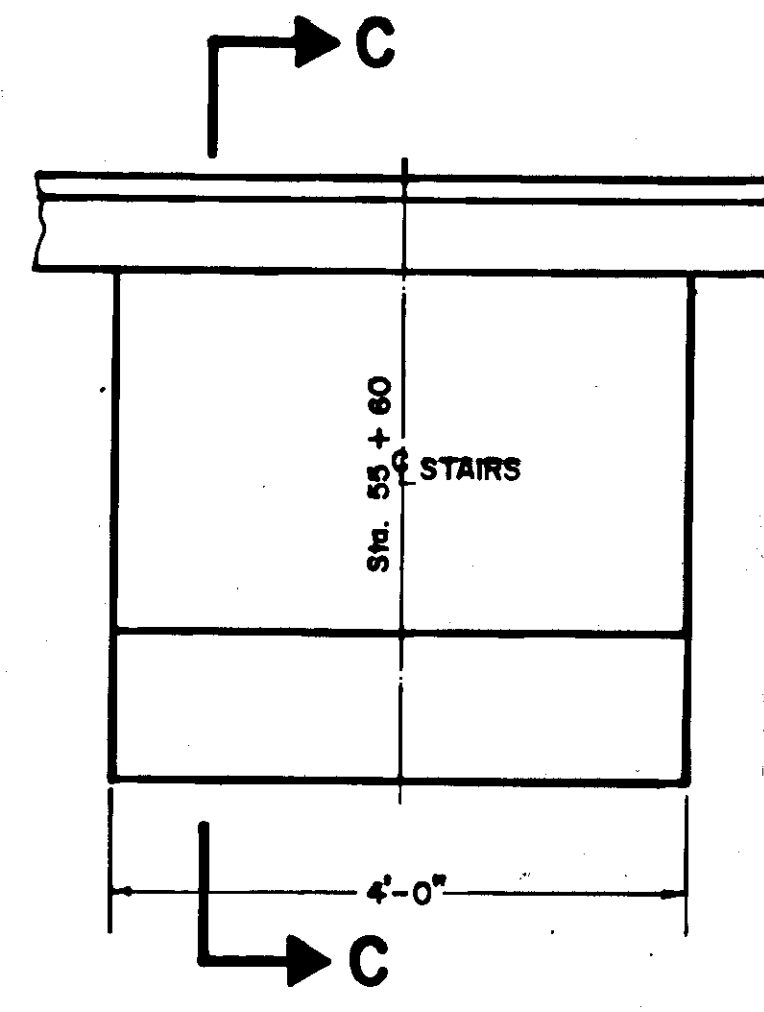
EMPS
ENGINEERING
JUNEAU, ALASKA

STRUCTURES

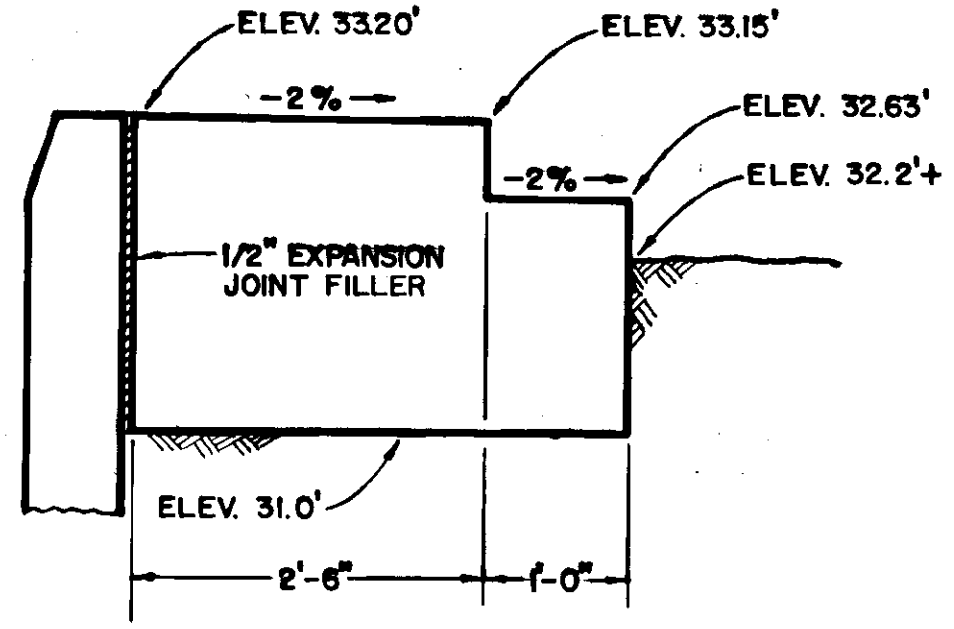
Sheet
24 of 38
Proj. No. **711**



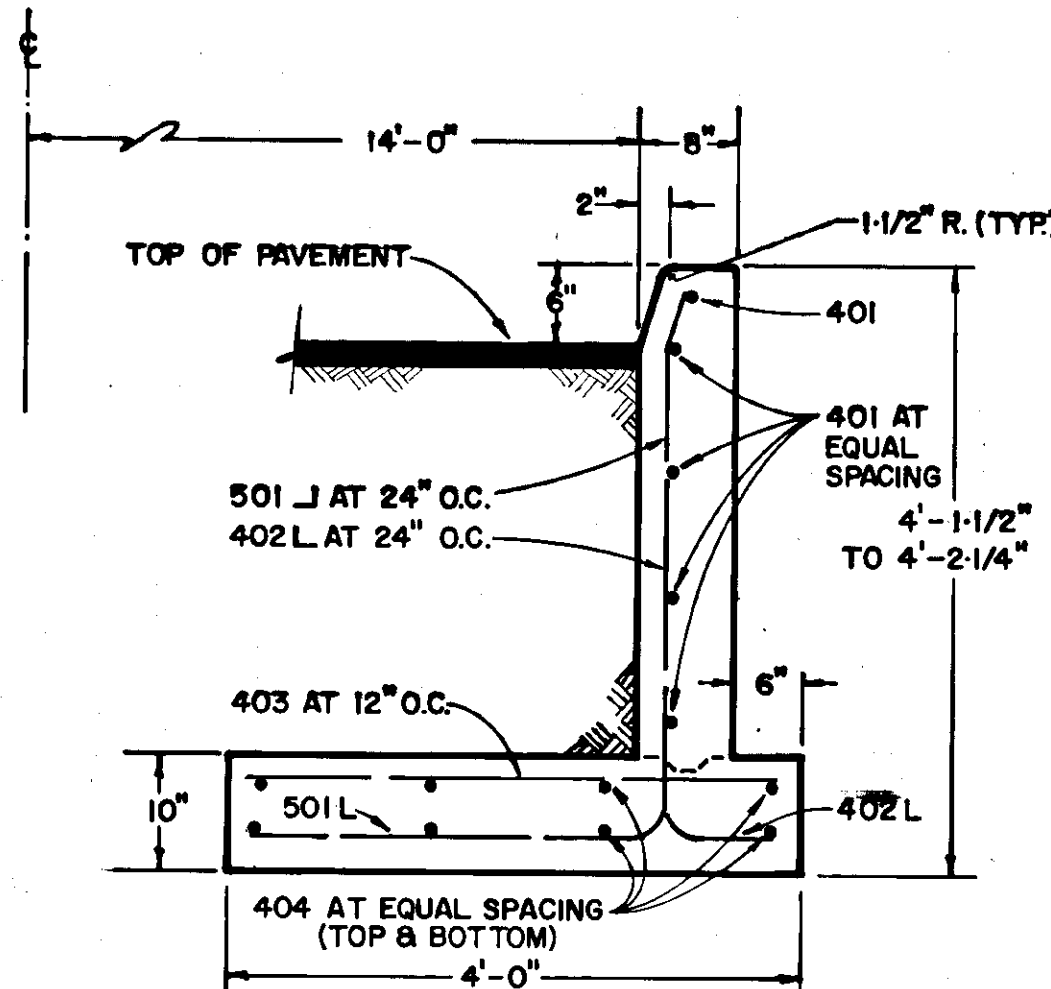
ELEVATION
SCALE: 3/4" = 1'



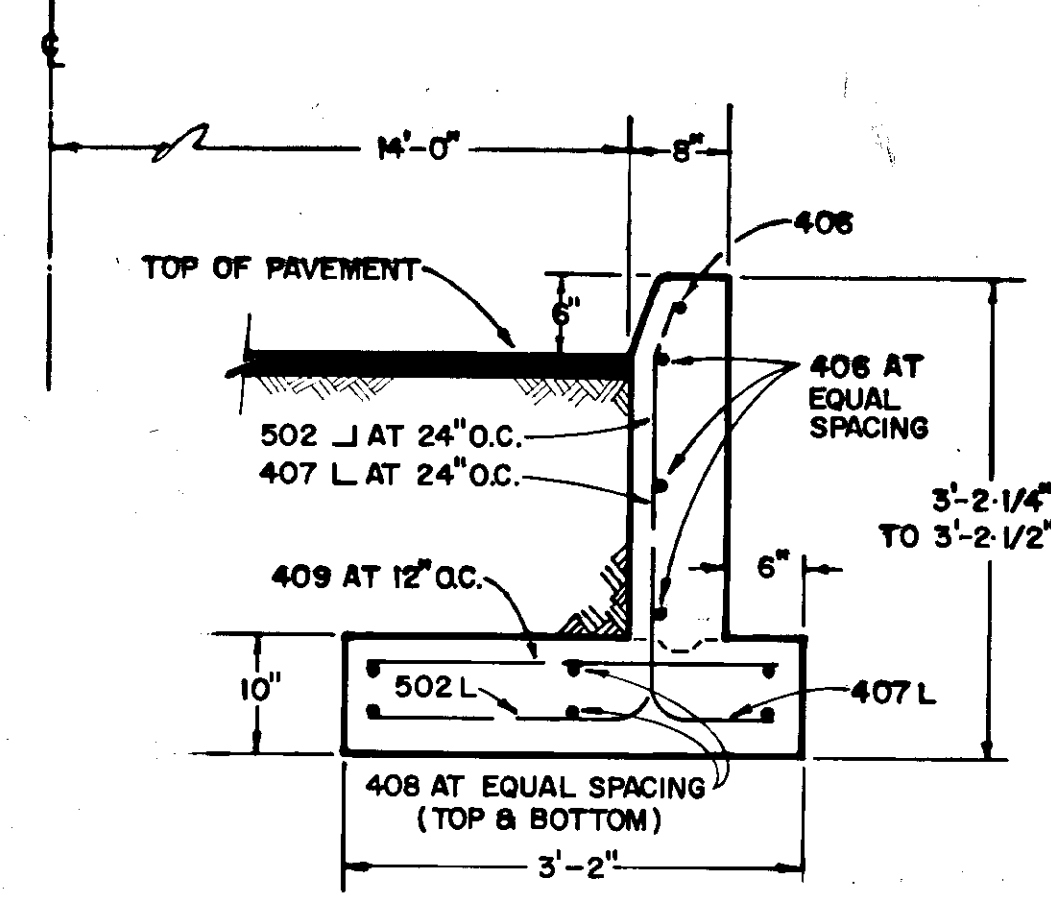
PLAN
SCALE: 3/4" = 1'



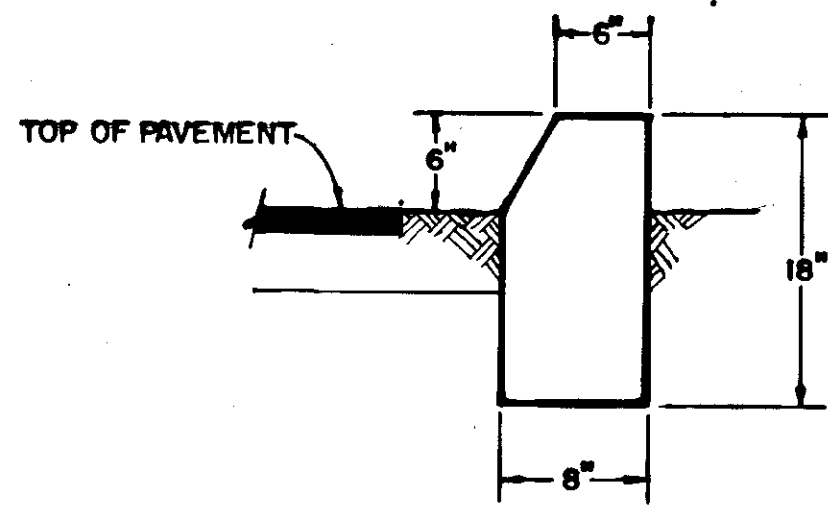
SECTION C-C
SCALE: 3/4" = 1'



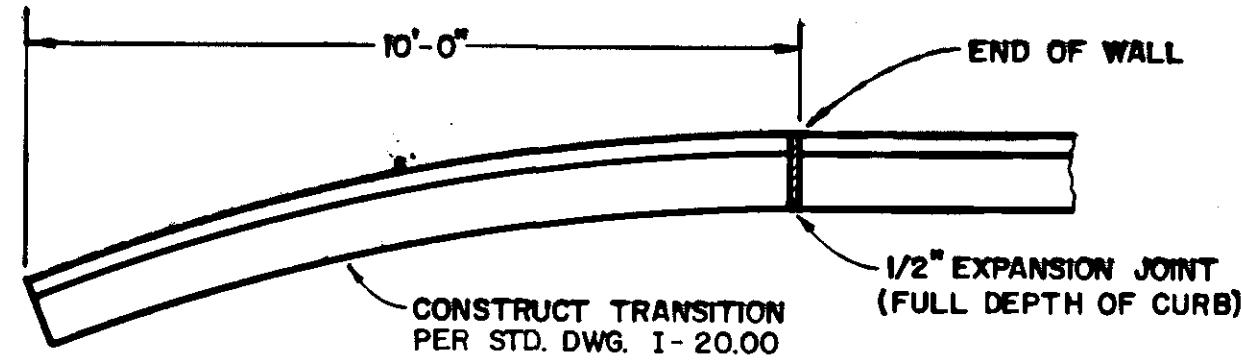
SECTION A-A
SCALE: 3/4" = 1'



SECTION B-B
SCALE: 3/4" = 1'



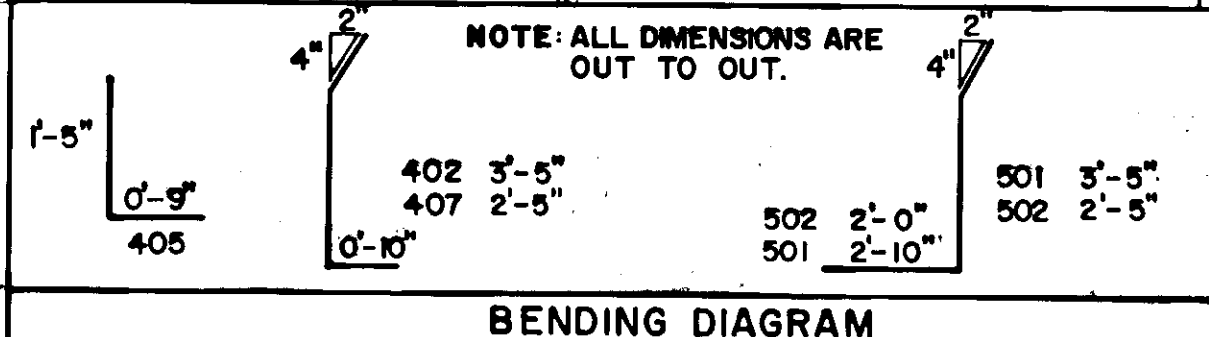
CURB DETAIL
NOT TO SCALE



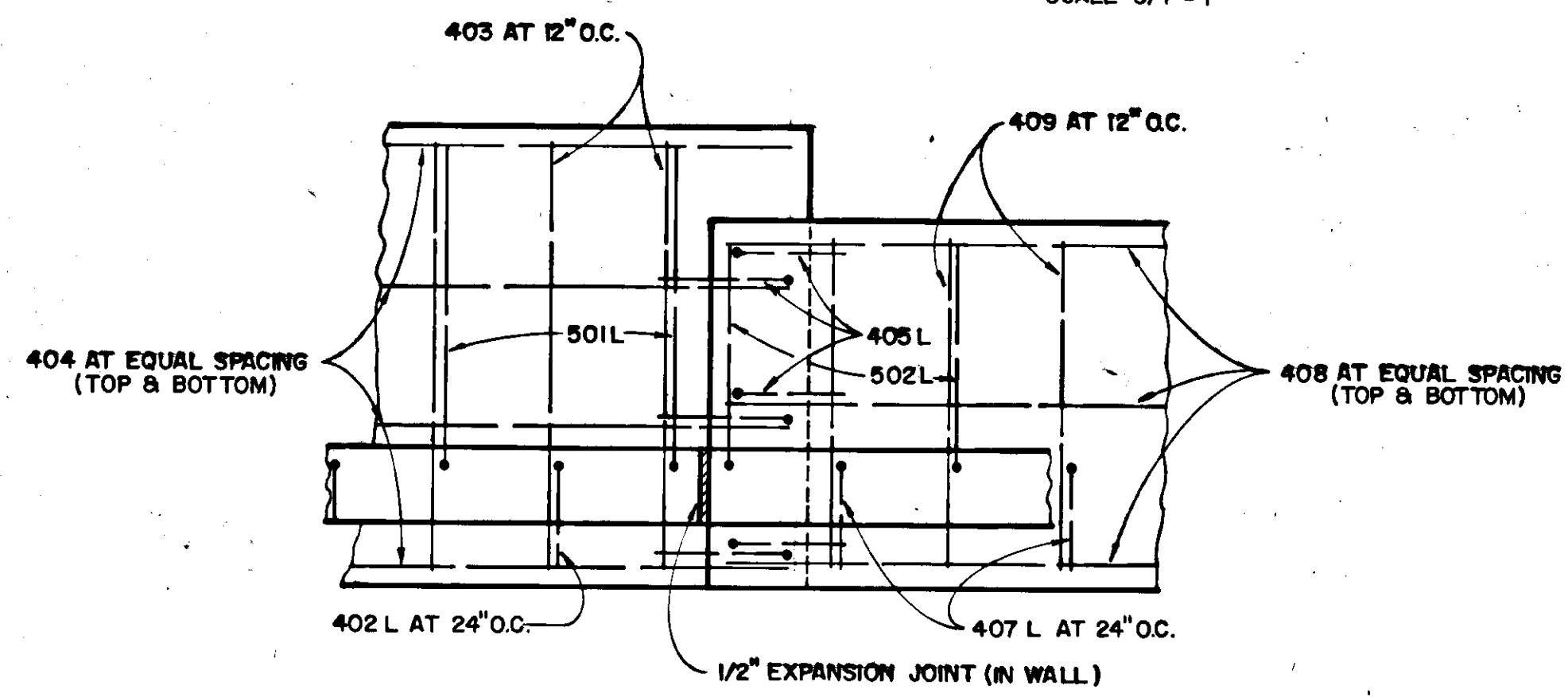
CURB TRANSITION
NOT TO SCALE

NOTE: Other end of wall has the same detail, opposite hand.
Curb to be paid for under Item 609 (2).

BILL OF BARS				
MARK	SIZE	NO.	LENGTH	TYPE
401	4	5	28' 2"	----
402	4	14	4' 6"	Bent
403	4	29	3' 6"	----
404	4	8	28' 10"	----
405	4	6	2' 4"	Bent
406	4	4	15' 0"	----
407	4	8	3' 6"	Bent
408	4	6	15' 0"	----
409	4	16	2' 10"	----
501	5	15	6' 6"	Bent
502	5	8	4' 8"	Bent



BENDING DIAGRAM

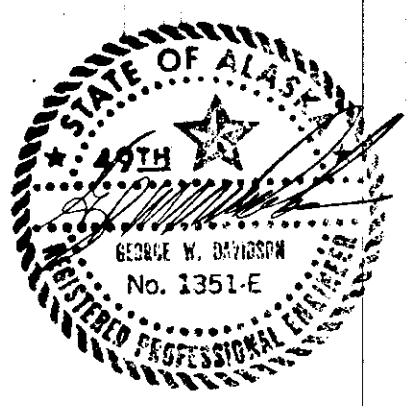


PARTIAL PLAN OF FOOTING & STEP
SCALE: 3/4" = 1'

QUANTITIES

CLASS "A" CONCRETE 9.4 Cu. Yds.
REINFORCING BAR, GRADE 60 610 lbs.

RETAINING WALL
Sta. 55 + 21 to Sta. 55 + 64 Rt.



DATE	BY	REVISION

PROJECT RS-0918 (3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: G.W.D.
Drwn: SE.G.M.
Chkd: J.C.B.
Date: 8/86
Ref:
SCALE: 3/4" = 1'



STRUCTURES

Sheet
25 of 38
Proj. No. **711**

NOTES

1. BILL OF BARS IS LOCATED ON SHEET No. 22.
2. SPLICE BAR AT SECTION C-D IS MARK No. 435, SEE SHEET No. 22.

QUANTITIES

CLASS "A" CONCRETE 25.3 Cu. Yds.
REINFORCING BAR, GRADE 60 2580 lbs.

RETAINING WALL

Sta. 61+62.82 to Sta. 62+23.06 Lt.

PLAN WALL SECTION B & C

SCALE: 1/2" = 1'-0"

ELEVATION

PLAN WALL SECTION A & D

A SHOWN - D OPPOSITE HAND
SCALE: 1/2" = 1'-0"

ELEVATIONS KEY

NOT TO SCALE

SECTION A-A

SCALE: 3/4" = 1'-0"

SECTION A-B

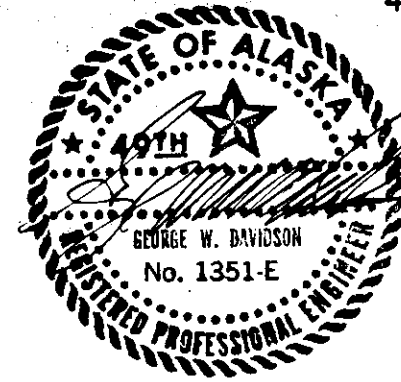
SCALE: 3/4" = 1'-0"

SECTION A-C

SCALE: 3/4" = 1'-0"

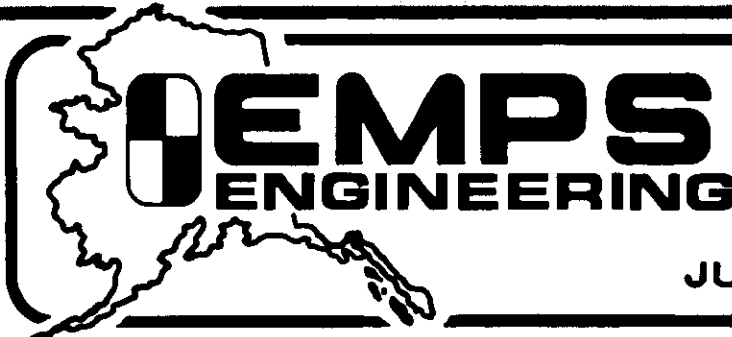
SECTION B-C

SCALE: 3/4" = 1'-0"



PROJECT RS-0918(3)
HOONAH ARTERIAL
HOONAH SEAFOODS TO WHITE ALICE ROAD

Dsgn: G.W.D.
Drwn: SE.G.M.
Chkd: J.C.B.
Date: 8/86
Ref:
SCALE: AS NOTED

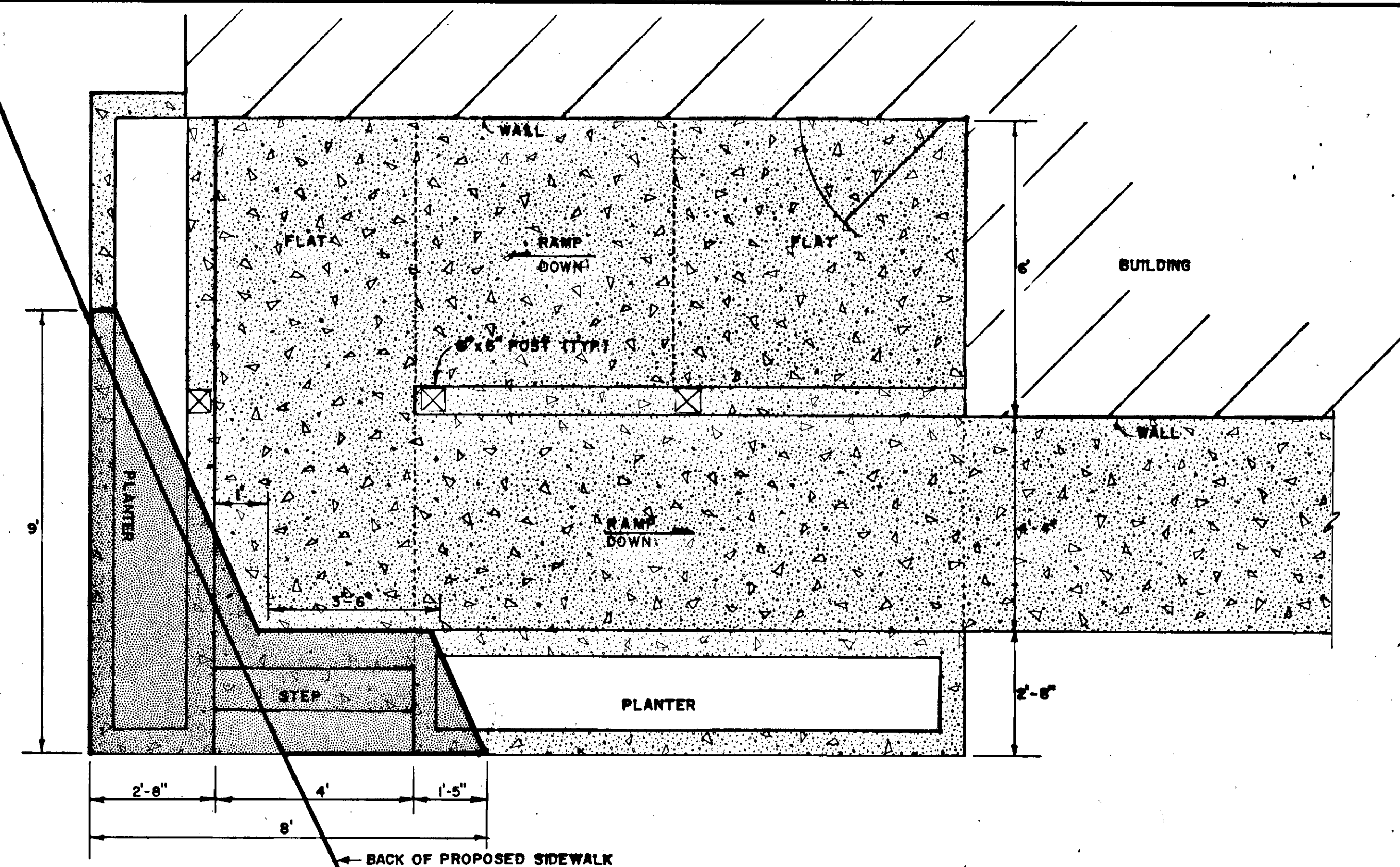


JUNEAU, ALASKA

STRUCTURES

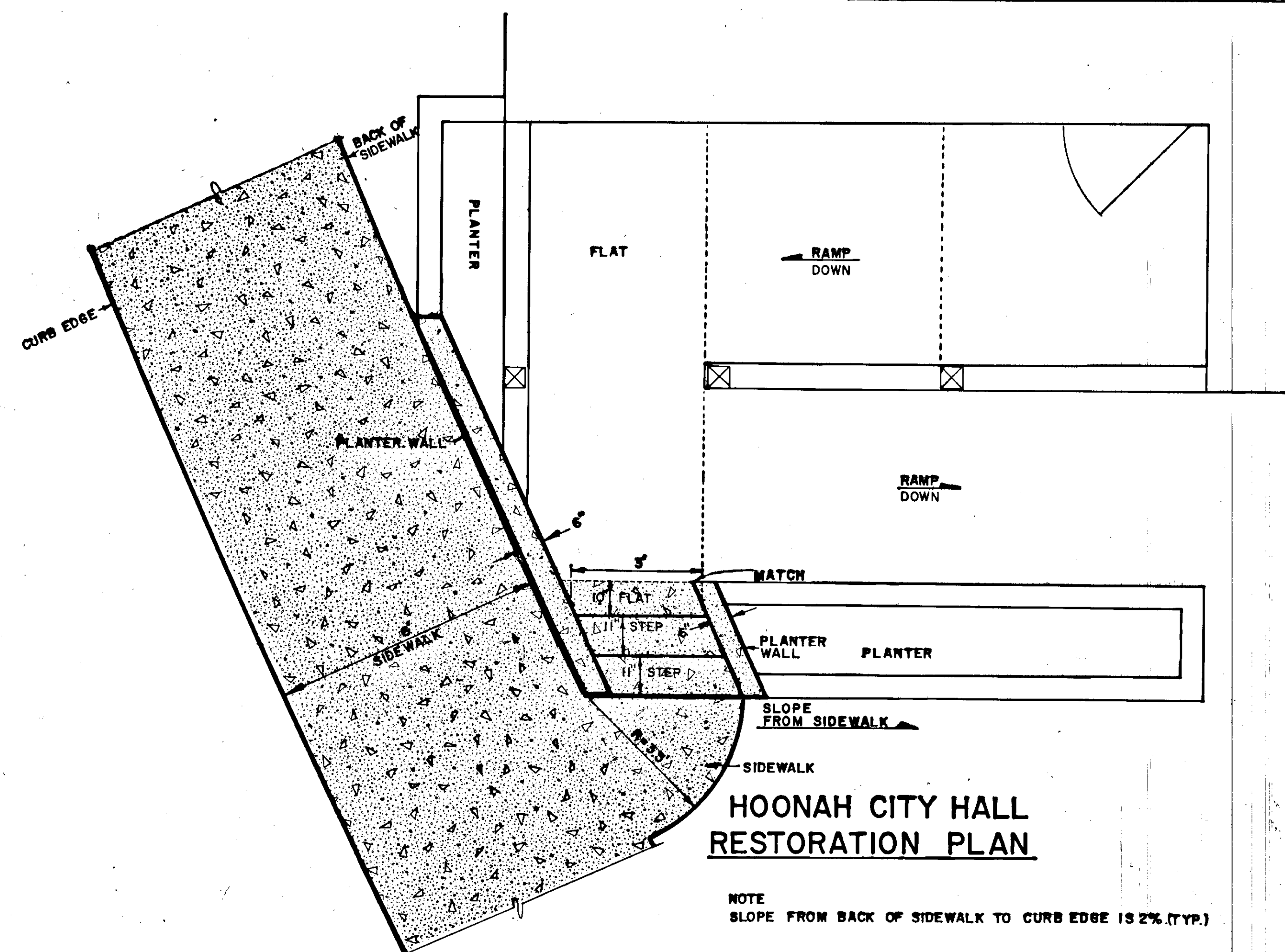
Sheet
26 of 38
Proj. No. 711

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-918 (3)	1987	27	38



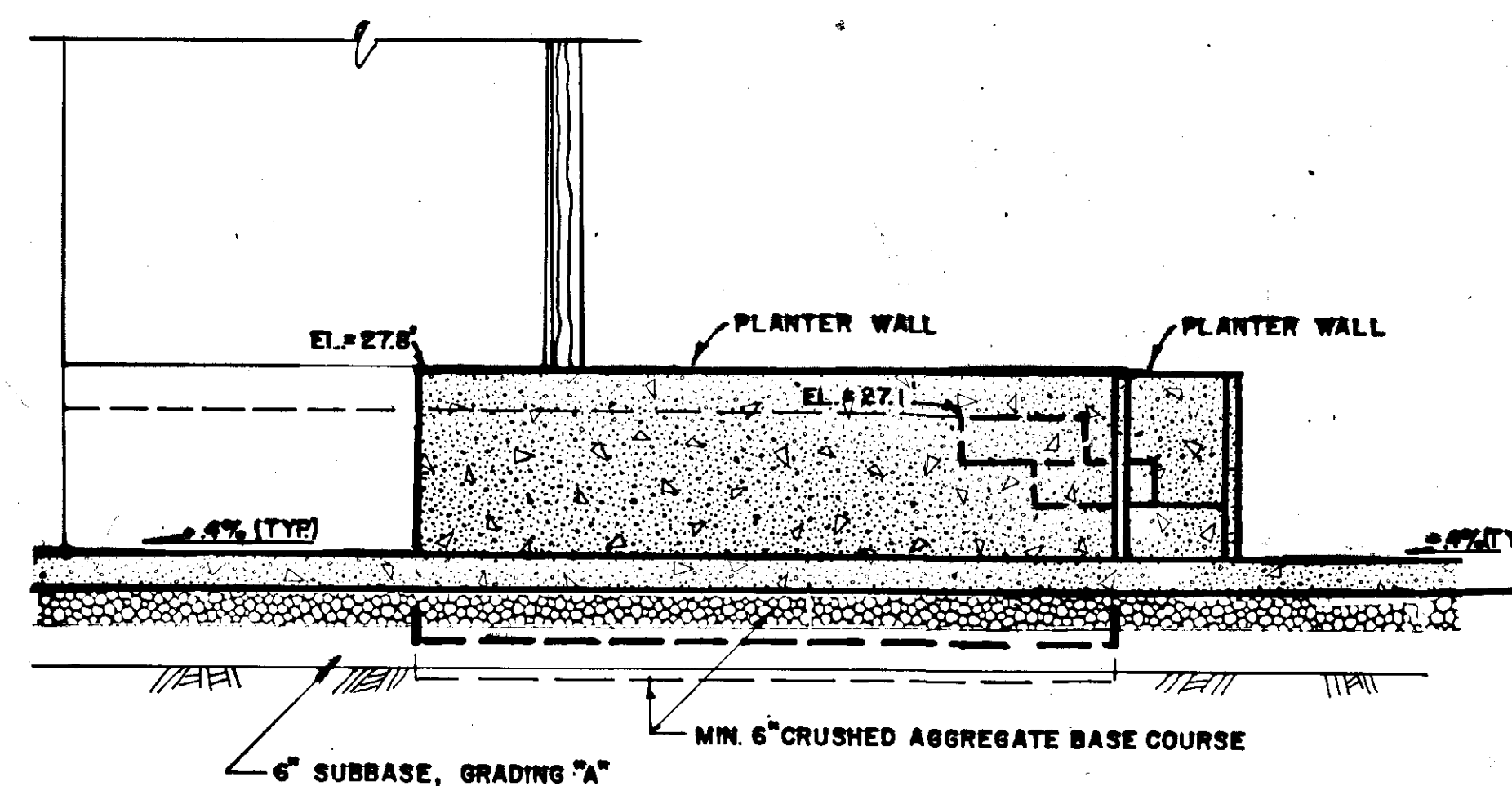
HOONAH CITY HALL STRUCTURE REMOVAL PLAN

- REMOVE EXISTING STRUCTURE IN SHADED AREA
- EXISTING CONCRETE

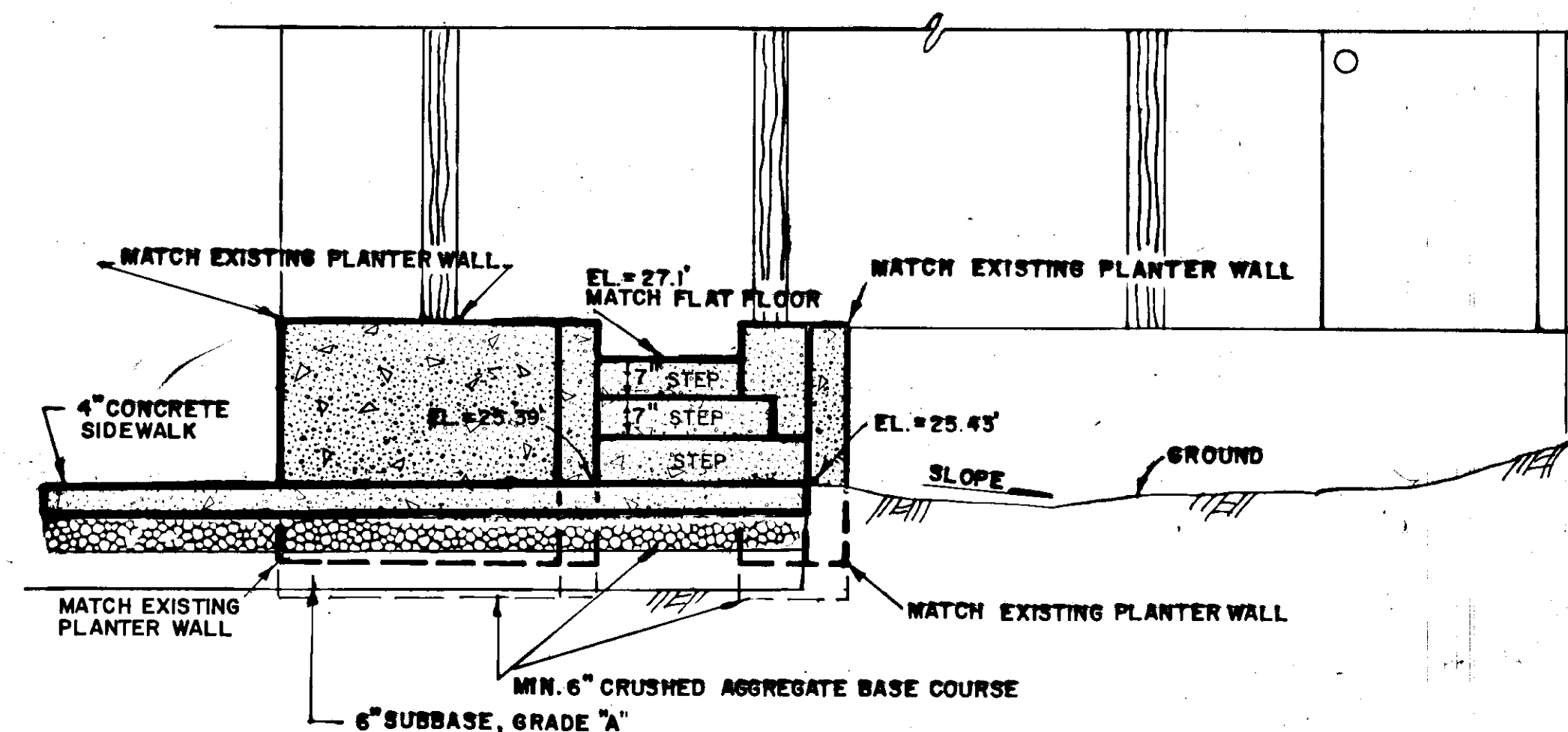


HOONAH CITY HALL RESTORATION PLAN

NOTE
SLOPE FROM BACK OF SIDEWALK TO CURB EDGE IS 2% (TYP.)

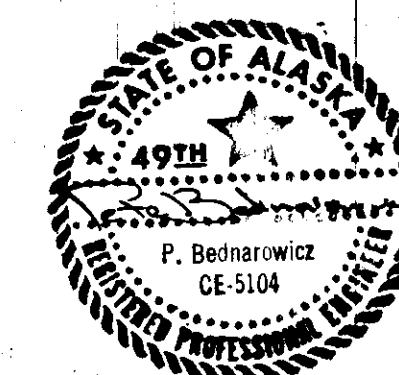


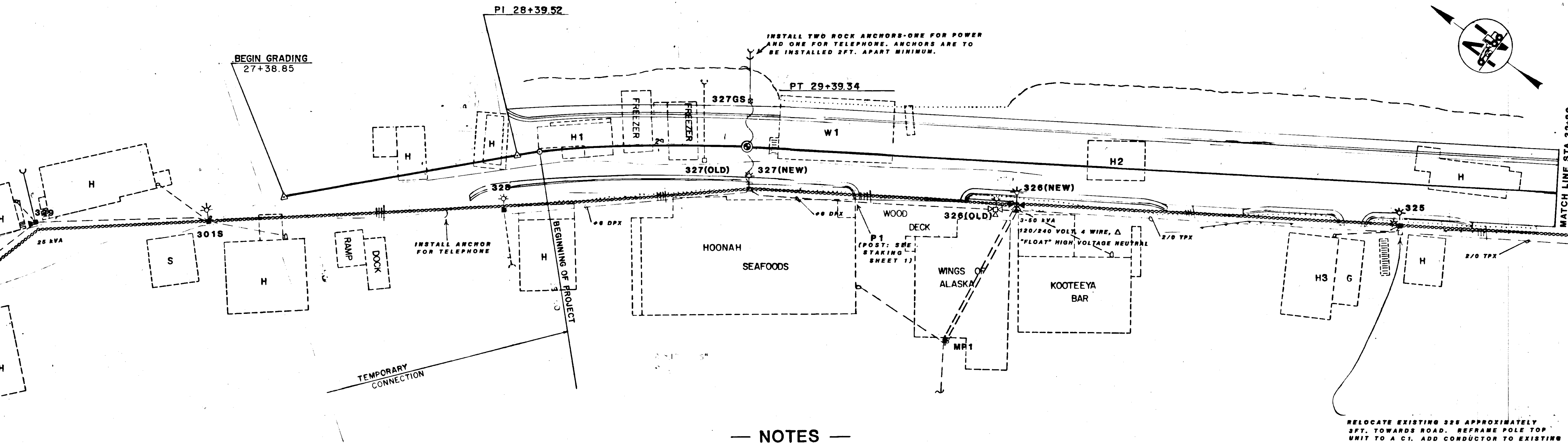
BACK OF SIDEWALK PLAN VIEW SIDEWALK GRADE MODIFICATION



SIDE VIEW FOR RESTORATION OF STEPS

- REBUILD CONCRETE STEPS, PLANTER WALLS, AND INSTALL SIDEWALK.
- PLACE 6\"/>





— NOTES —

- Some pole and structure locations in outlying areas are approximate. Weatherhead locations are approximate. Existing secondary and service sizes and all service back span lengths are approximate.
- All power pole, anchor and guy installations shall be located to provide one of the following minimum clearances:
 - 22 feet from center line of highway to face of pole.
 - 2 feet from face of curb to face of pole.
 - 3 feet from guard rails to face of pole.
 - 10 feet from edge of traveled way to face of pole.Pole stations and offsets are shown on sheet 2 of 10 of these drawings.
- The Contractor shall coordinate all switching and outages with the individual designated by Tlingit-Haida Regional Electrical Authority as their representative.

All requests for outages shall be in writing and delivered to the Owner's designated representative at least 48 hours in advance of the scheduled outage.

The Contractor shall not perform any switching operations, de-energize any existing lines or equipment, energize any new lines or equipment or perform any consumer conversions without written permission from the Owner's designated representative.

The Contractor's switching operations shall be in conformance with the Owner's switching procedures.

The Contractor shall notify the Owner's designated representative of the beginning and end of all outages, including unscheduled outages.
- All new construction shall be consistent with drawings and specifications for construction in the latest revision of REA Bulletin 50-3, Standard D 804, Specifications and Drawings for 12.5/7.2 kV Line Construction. Contractor shall note exceptions to crossarm to neutral spacing for pole top units C1, C1-1 and C2 as shown on sheet 10 of 10 of these drawings. Contractor shall also note exceptions to crossarm to neutral spacing for tap assembly guide drawings M29-1 as shown on sheet 10 of 10 of these drawings.
- Transformer and street light designations on poles are for reference purposes only and ARE NOT specifications of quadrant locations on poles.
- The contractor shall be responsible for reinforcing existing weatherheads so they comply with REA drawing M24-10 in Bulletin 50-3.
- Staking sheet notation "LS" refers to a pole mounted street light assembly.

Staking sheet notation "M" as in "SL-M" or "TV-M" refers to an assembly that includes a metered riser as shown on REA drawing M8 in Bulletin 50-3.

Staking sheet notation "MP" refers to a yard pole with a metered riser as shown on REA drawings M8-9 or M8-10 in Bulletin 50-3.

Staking sheet notation "K14CN" refers to a service assembly identical to service assembly "K14C" in Bulletin 50-3 except the insulated bracket and bolt are omitted.

Staking sheet distribution conductor notation 3x2-2 ACSR indicates three #2 ACSR phase conductors and one #2 ACSR neutral conductor. Distribution conductor notation 2x2-2 ACSR indicates two #2 ACSR phase conductors and one #2 ACSR neutral conductor. Distribution conductor notation 1x2-2 ACSR indicates one #2 ACSR phase conductors and one #2 ACSR neutral conductor.
- All new poles and anchors shall be backfilled with suitable rock and soil. If suitable material does not exist at the site of the pole or anchor installation, shot rock (4 inches to 6 inches) shall be provided as backfill.
- Contractor shall furnish and use only the materials and equipment listed in the current edition of REA Bulletin 43-5, "List of Materials Acceptable for Use on Systems of REA Electrification Borrowers", as amended and revised.
- All new anchors shall be installed with triple eye type anchor rods.
- All guy strand shall be 3/8 in. High strength steel strand unless otherwise noted on the staking sheets.

Formed type guy attachments may be used at the pole guy attachment. Only automatic type deadends shall be used at the anchor rod guy attachment. Anchor rod bonding clamps shall be installed.

Guy markers shall be installed on all guys.
- All new primary conductor shall be #2 ACSR 7/1 stranding. Conductor ties shall be performed ties.
- All ground wire and leads on equipment such as transformers shall be #6 solid soft drawn copper.
- All poles shall be Douglas Fir. Poles shall be full length pressure treated. Preservative shall be pentachlorophenol. Poles shall be either Insured Warranted or Independently Inspected.
- All crossarms shall be Douglas Fir. Preservative shall be pentachlorophenol.
- Contractor shall verify 15 Amp primary tap fuse size with utility.
- All transformer connections to primary conductors shall be made with hot line clamps.
- Each new pole mounted street light assembly will consist of a 120 Volt, 80 Watt, high pressure sodium, high power factor ballast, suitable for operation at -5% to +8% input voltage, with a 100 Watt clear bulb, 80 degree cutoff optics, a Lexan polycarbonate resin dropped globe, and an individual photoelectric receptacle and control (G.E. M-250A2 catalogue number including special order ballast available from G.E.). Also include a 2.5 ft. Aluminum pipe bracket for wood pole mounting (G.E. Catalogue number C6226002 or equivalent).
- All hot line tap connections to primary conductors shall be made with compression stirrup connections.
- Transformer units do not require arresters.
- All pole ground rods shall be copperweld.
- The owner is to supply any extra transformers which are not currently existing on the project site. Transformers which are retired from existing poles shall be transferred to and installed on the new poles providing that the retired transformer meets the specifications designated for the new pole installation. Transformers which cannot or do not need to be transferred will be returned to the owner. The contractor shall coordinate the retiring and installation of all transformers with the owner in order to keep outage duration to a minimum.

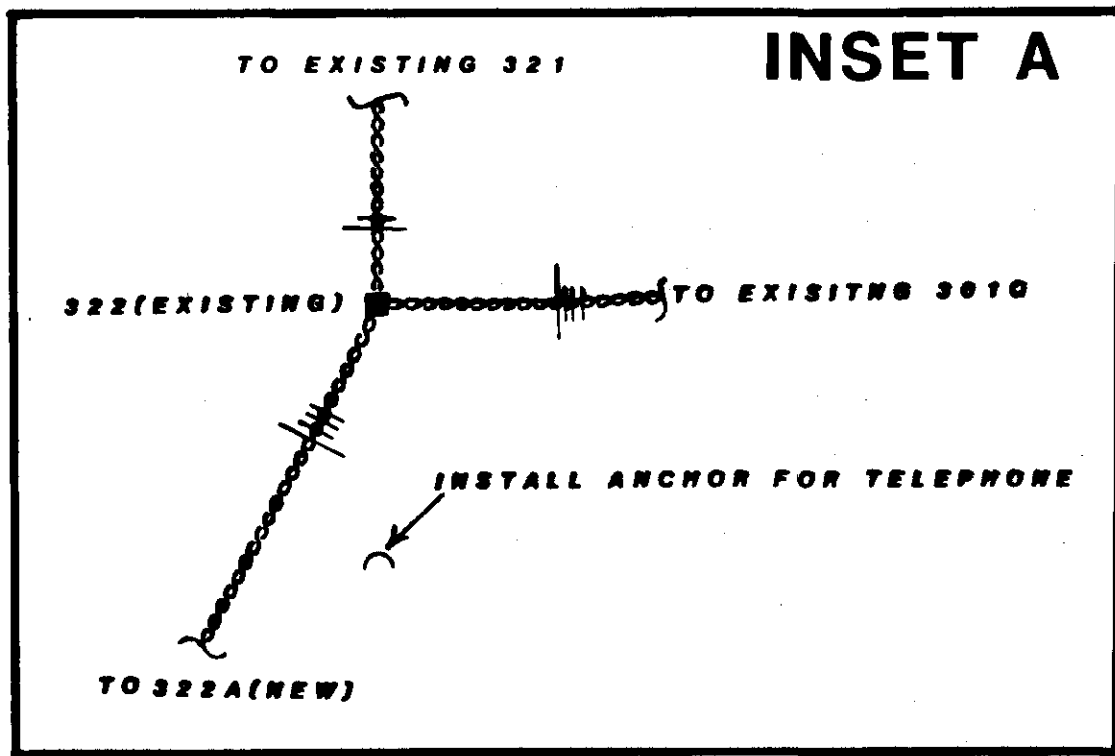
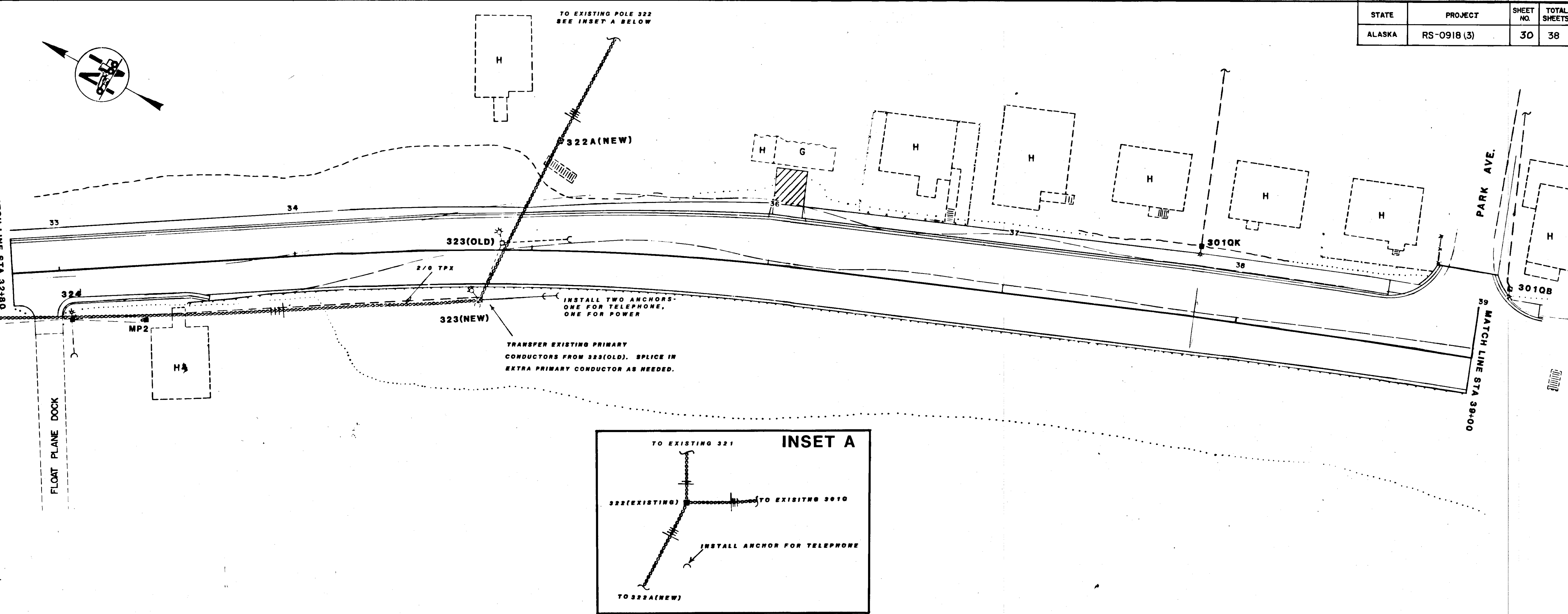
RELOCATE EXISTING 326 APPROXIMATELY 3 FT. TOWARDS ROAD. REFRAME POLE TOP UNIT TO A C1. ADD CONDUCTOR TO EXISTING SECONDARIES AS MAY BE REQUIRED.

LEGEND

EXISTING POLE (REMOVE)	□
EXISTING POLE (TO REMAIN)	■
REPLACE EXISTING POLE WITH NEW POLE	◻
INSTALL NEW POLE	▲
TRANSFORMER (INSTALL/TO REMAIN)	⊠
TRANSFORMER (REMOVE)	△
FUSED CUTOUT	—○—
STREET LIGHT	⊙
OVERHEAD PRIMARY GUY	—●—
OVERHEAD SECONDARY GUY	—○—
DOWN GUY & ANCHOR (REMOVE)	—○—
(INSTALL/TO REMAIN)	—○—
GUY STUB	G.S.
7.2/12.5 kV OVERHEAD LINES	
3 PHASE & NEUTRAL	—●—●—●—
2 PHASE & NEUTRAL	—●—●—
1 PHASE & NEUTRAL	—●—
SECONDARY/SERVICE LINES	—●—

2-24-88 EB	ADD TITLE BLOCK				
2-5-88 MB	Revise E + shoulder of B.O.P. - 30+00	5-18-87 WDA			ADD NOTE NO. 22
4-23-87 RNP	ADDITION OF P.O.E. 326 (NEW) AND TRANSFER OF P.O.E. 325 1/4/87 WEN				ADDITION TO K14CN, ADDED PHONE ANCHORS
DATE	BY	APPR	REVISION	DATE	BY
STATE OF ALASKA, RS-0918(3)					
HOONAH ARTERIAL 12.5 kV DISTRIBUTION LINE					
HOONAH SEAFOODS TO WHITE ALICE ROAD					
T. E. NEUBAUER & ASSOCIATES					
CONSULTING ENGINEERS JUNEAU, ALASKA					
DRAWN RNP:TCO	DATE 4-25-86	SCALE 1"=20'	SHEET 29 OF 38		
APPR	FILE 525.6101	DWG No			

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	30	38



POLE LOCATIONS FOR NEW POLE INSTALLATIONS

POLE NUMBER	STATION	OFFSET	POLE NUMBER	STATION	OFFSET	POLE NUMBER	STATION	OFFSET
327 (NEW)	29+38	17' RIGHT	216 GS	48+74	24' RIGHT	201F (NEW)	59+94	117' RIGHT
327 GS	29+39	20' LEFT	311Q	48+26	122' LEFT	201E (NEW)	60+89	31' LEFT
326 (NEW)	30+53	18' RIGHT	202MA	50+5	159' RIGHT	208 (NEW)	62+25	29' LEFT
325 (AFTER MOVE)	32+15	18' RIGHT	215 (NEW)	50+17	29' LEFT	201W	62+16	23' RIGHT
323 (NEW)	34+79	22' RIGHT	201V	50+33	19' RIGHT	201J (NEW)	62+88	107' LEFT
322A (NEW)	35+9	46' LEFT	214 (NEW)	51+96	28' LEFT	207 (NEW)	63+85	29' LEFT
301QB	39+13	31' LEFT	214 GS	51+96	24' RIGHT	206 (NEW)	65+35	29' LEFT
301QD (NEW)	40+95	24' RIGHT	213 (NEW)	53+95	29' LEFT	205 (NEW)	66+78	30' LEFT
302QD (NEW)	41+35	31' RIGHT	213 GS	53+93	23' RIGHT	204 (NEW)	68+42	31' LEFT
219 (NEW)	43+86	22' RIGHT	201K	54+98	30' LEFT	204 GS (NEW)	68+40	24' RIGHT
2010 (NEW)	43+35	31' LEFT	202K	54+90	22' RIGHT	203 (NEW)	70+19	31' LEFT
2020 (NEW)	42+51	30' LEFT	212 (NEW)	55+81	29' LEFT	201 B (NEW)	69+99	23' RIGHT
218 (NEW)	45+61	19' RIGHT	212 GS	55+81	24' RIGHT	202 (NEW)	72+19	30' LEFT
217 (NEW)	46+63	23' RIGHT	211 (NEW)	57+23	29' LEFT	201S	72+26	55' RIGHT
201Q	47+46	24' RIGHT	211 GS	57+24	34' RIGHT	201 (NEW)	74+00	30' LEFT
216 (NEW)	48+52	31' LEFT	210 (NEW)	58+89	24' LEFT	201A (NEW)	74+02	39' RIGHT
			209 (NEW)	60+14	31' LEFT	201X (NEW)	74+70	30' LEFT
			202I (NEW)	67+37	158' RIGHT	103 GS	76+34	66' RIGHT

3-16-88	RK	ADDED 202I TO LIST			
2-5-88	MB	ADDED MORE CURB STA. 33+00	2-24-88	EB	ADD TITLE BLOCK
			4/24/87	NPN	CHANGES AT ROAD KING POLES 323, 322, 322A
8/11/86	RNP	ADDITIONS / CHANGES TO POLE LOCATION LIST	2/13/87	RNP	CHANGES TO ANCHOR LEAD ADDITION OF FILL FOR ANCHOR IN TIDAL AREA
DATE	BY	APPR	DATE	BY	APPR
			12/15/86	TCO	ADDITIONS / CHANGES TO POLE LOCATION LIST

STATE OF ALASKA, RS-0918(3)

HOONAH ARTERIAL 12.5 kV DISTRIBUTION LINE:

HOONAH SEAFOODS TO WHITE ALICE ROAD

T. E. NEUBAUER & ASSOCIATES

CONSULTING ENGINEERS

JUNEAU, ALASKA

DRWN RNP & TCO

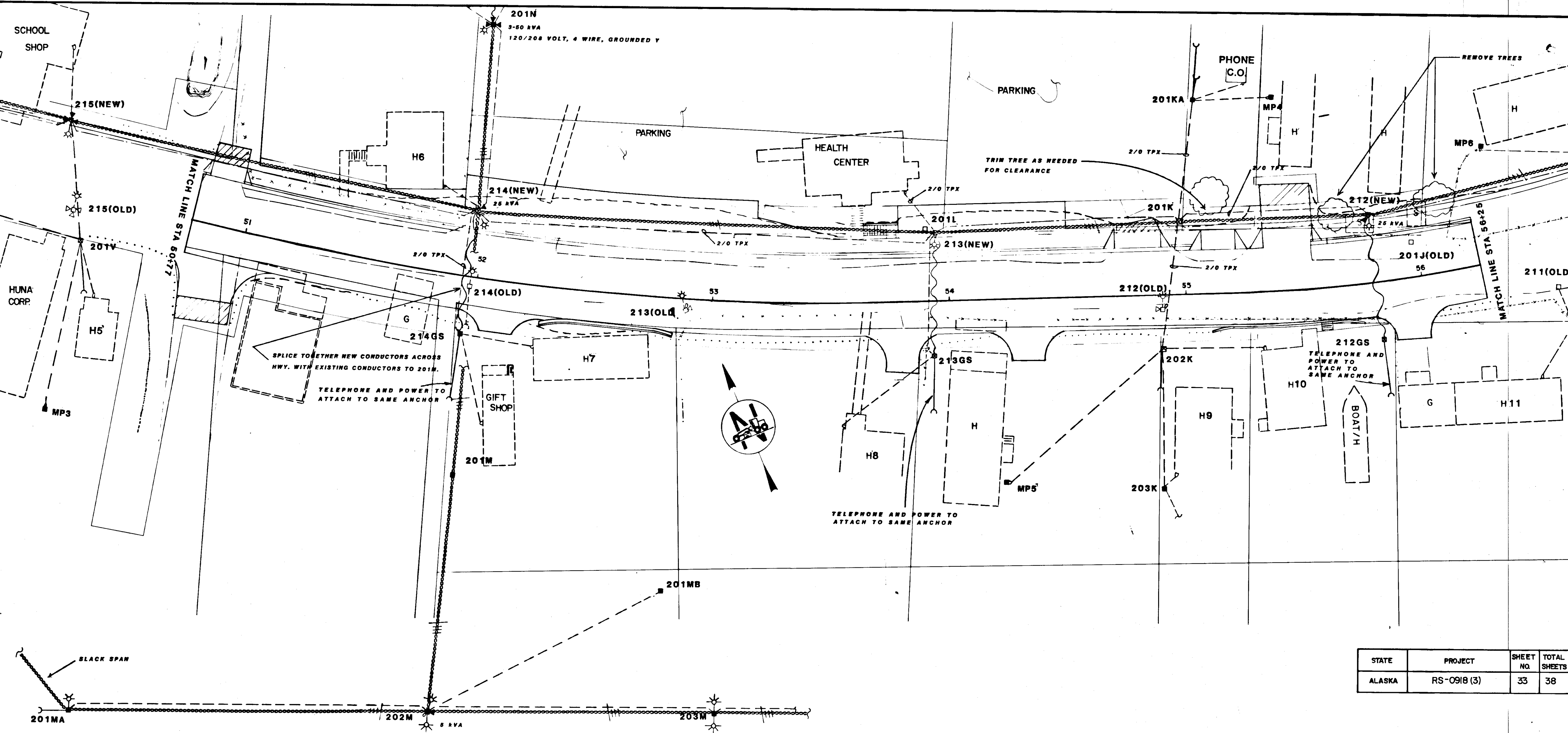
DATE 4-25-86

SCALE 1"=20'

FILE 525.6101

DWG No

SHEET 30 OF 38

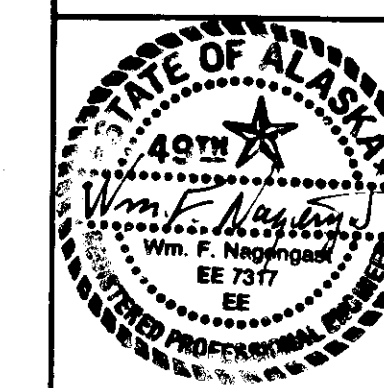


STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	33	38

POLE LOCATIONS 201MA, 201M, 202M, 201MB, 203M, & 201N ARE APPROXIMATE

2-5-88 MB	REVISED DRIVEWAYS	2-24-88 EB	ADDED TITLE BLOCK
8/11/88 RNP	ADDITION OF POLE 201N	4/25/87 RNP	REVISION

STATE OF ALASKA, RS-0918(3)



HOONAH ARTERIAL 12.5 kV DISTRIBUTION LINE:
HOONAH SEAFOODS TO WHITE ALICE ROAD

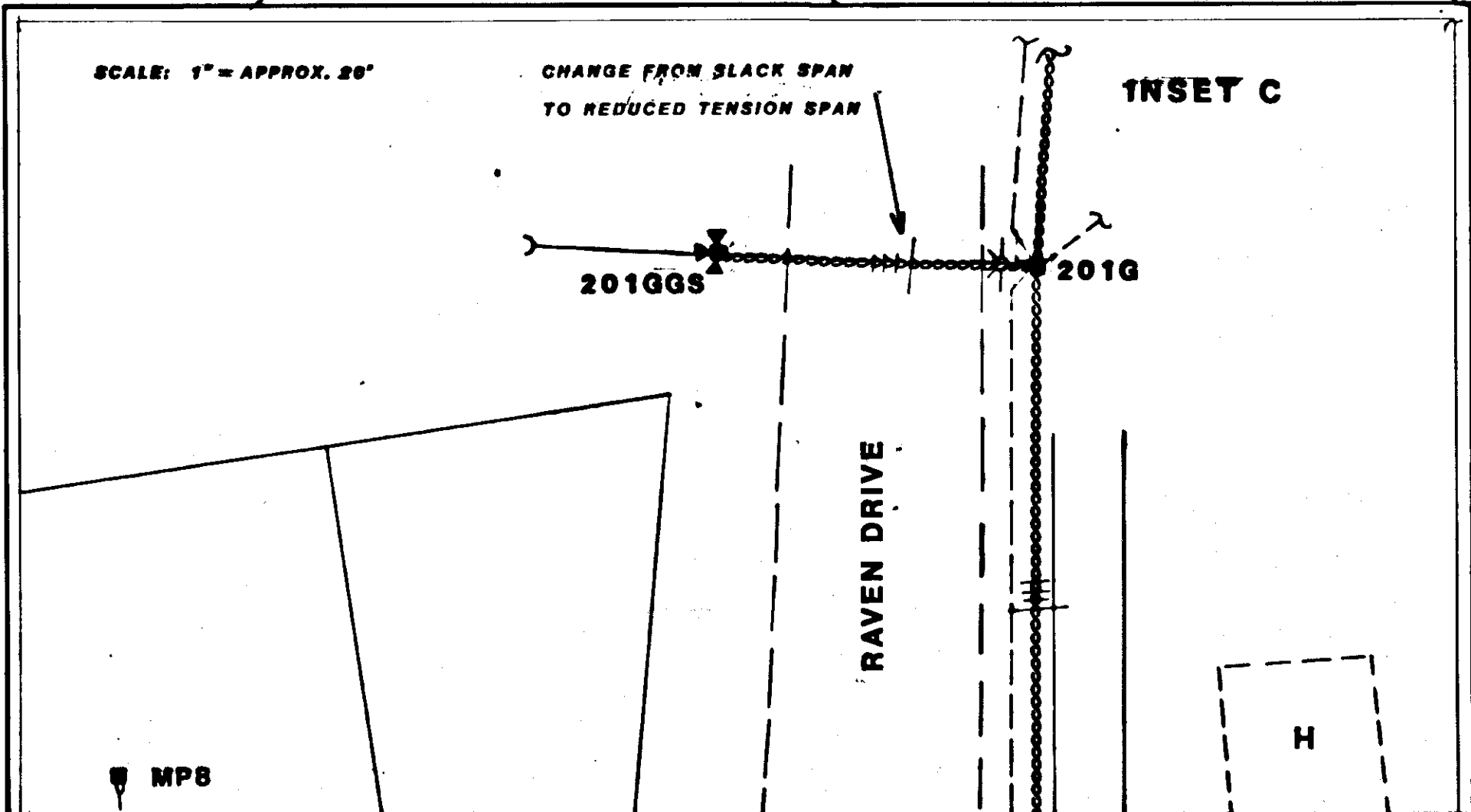
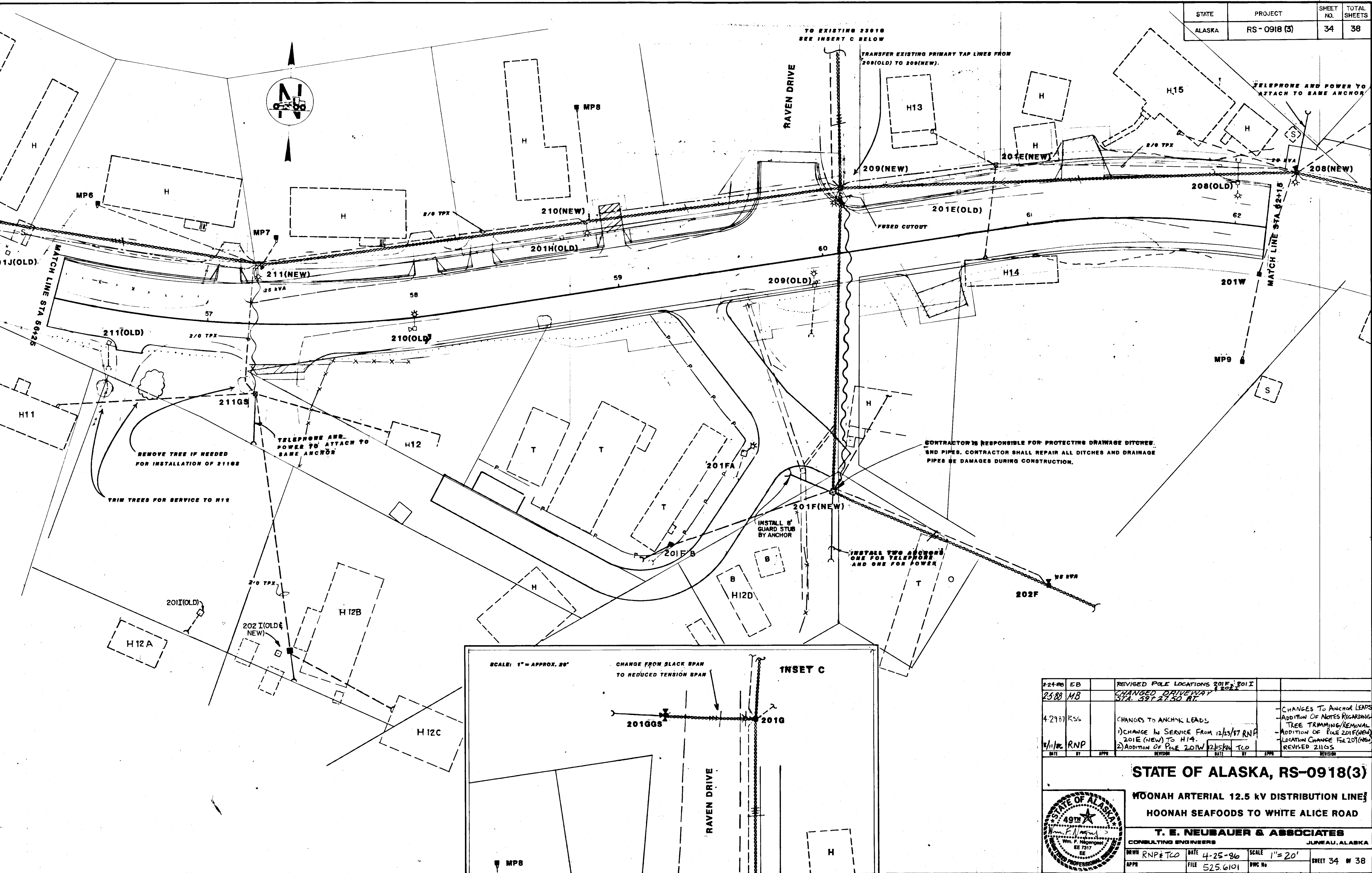
T. E. NEUBAUER & ASSOCIATES

CONSULTING ENGINEERS JUNEAU, ALASKA

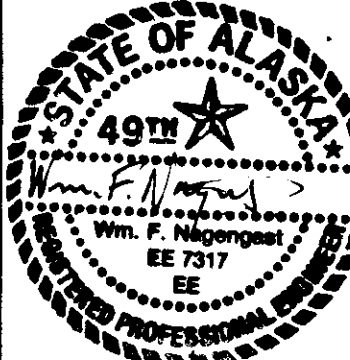
DATE	4-25-86	SCALE	1"=20'
FILE	525.6101	DWC No.	

SHEET 33 OF 38

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	34	38



2-24-88	EB	REVISED POLE LOCATIONS 201F, 201I	
2-25-88	MB	CHANGED DRIVEWAY 201I	
4-29-87	RSS	CHANGES TO ANCHOR LEADS	
5-11-86	RNP	1) CHANGE IN SERVICE FROM 12/23/87 RNP 201E (NEW) TO H14. 2) ADDITION OF POLE 201W	12/23/87 TCO REVISED 211GS



STATE OF ALASKA
49th
T. E. NEUBAUER & ASSOCIATES
CONSULTING ENGINEERS
JUNEAU, ALASKA

STATE OF ALASKA, RS-0918(3)

HOONAH ARTERIAL 12.5 KV DISTRIBUTION LINE

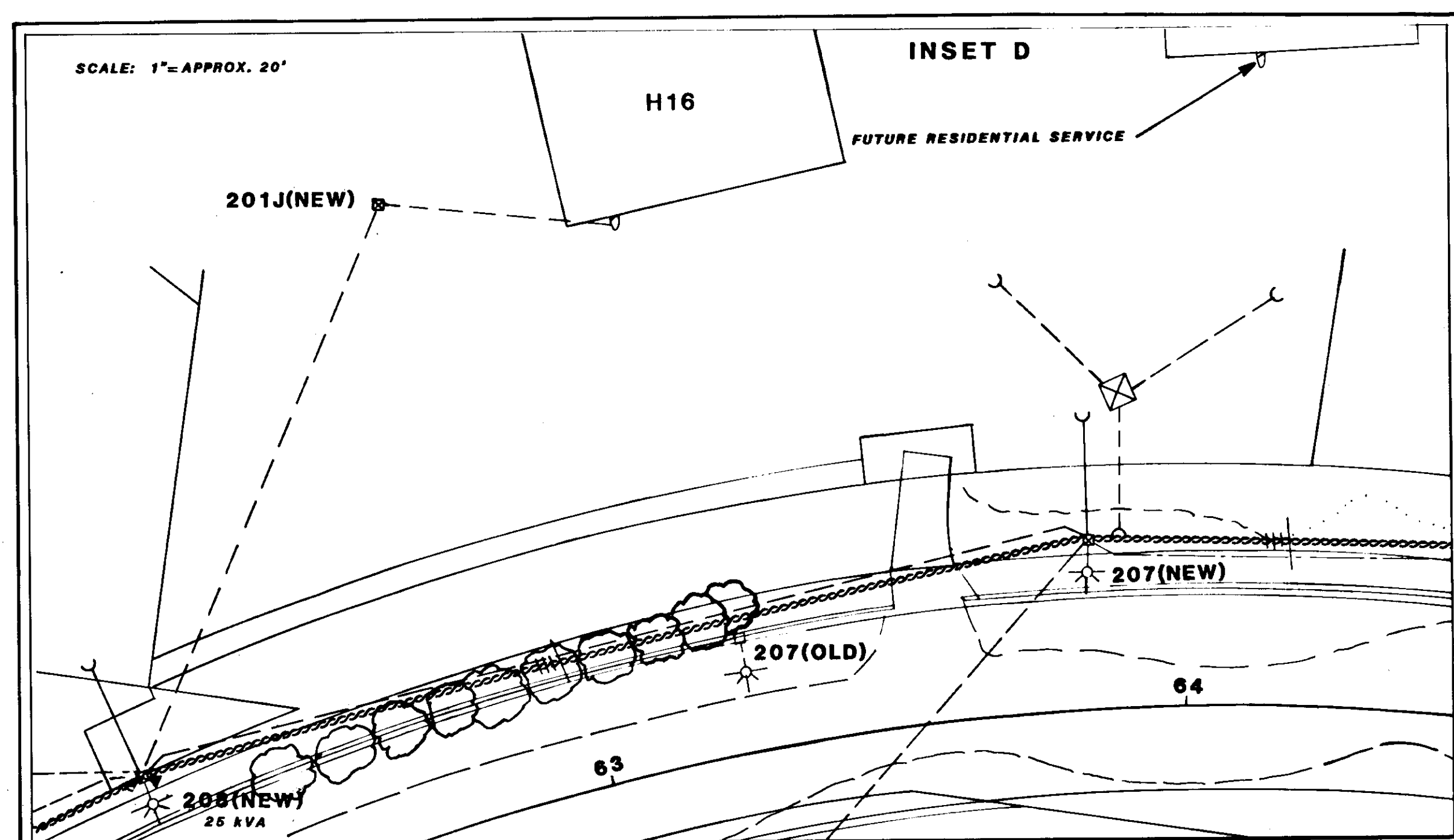
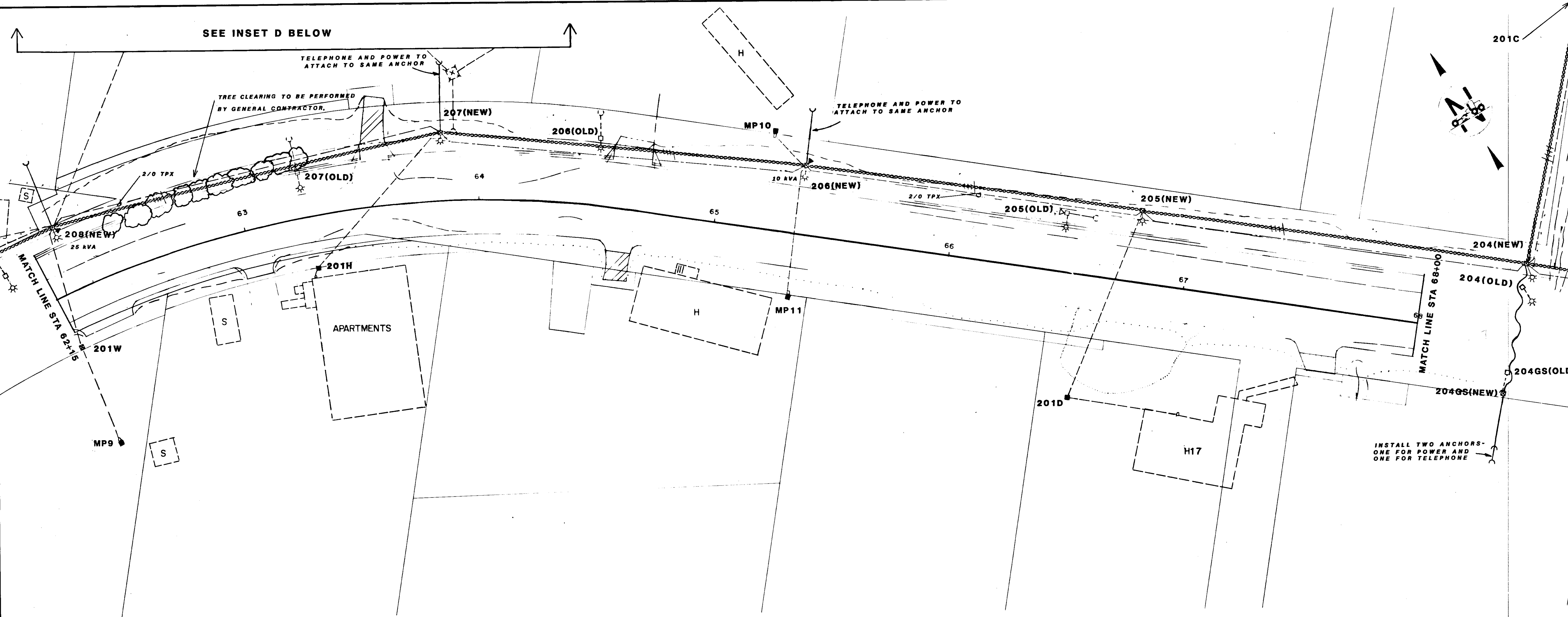
HOONAH SEAFOODS TO WHITE ALICE ROAD

T. E. NEUBAUER & ASSOCIATES

CONSULTING ENGINEERS JUNEAU, ALASKA

DRWN RNP & TCO DATE 4-25-86 SCALE 1"=20' SHEET 34 OF 38

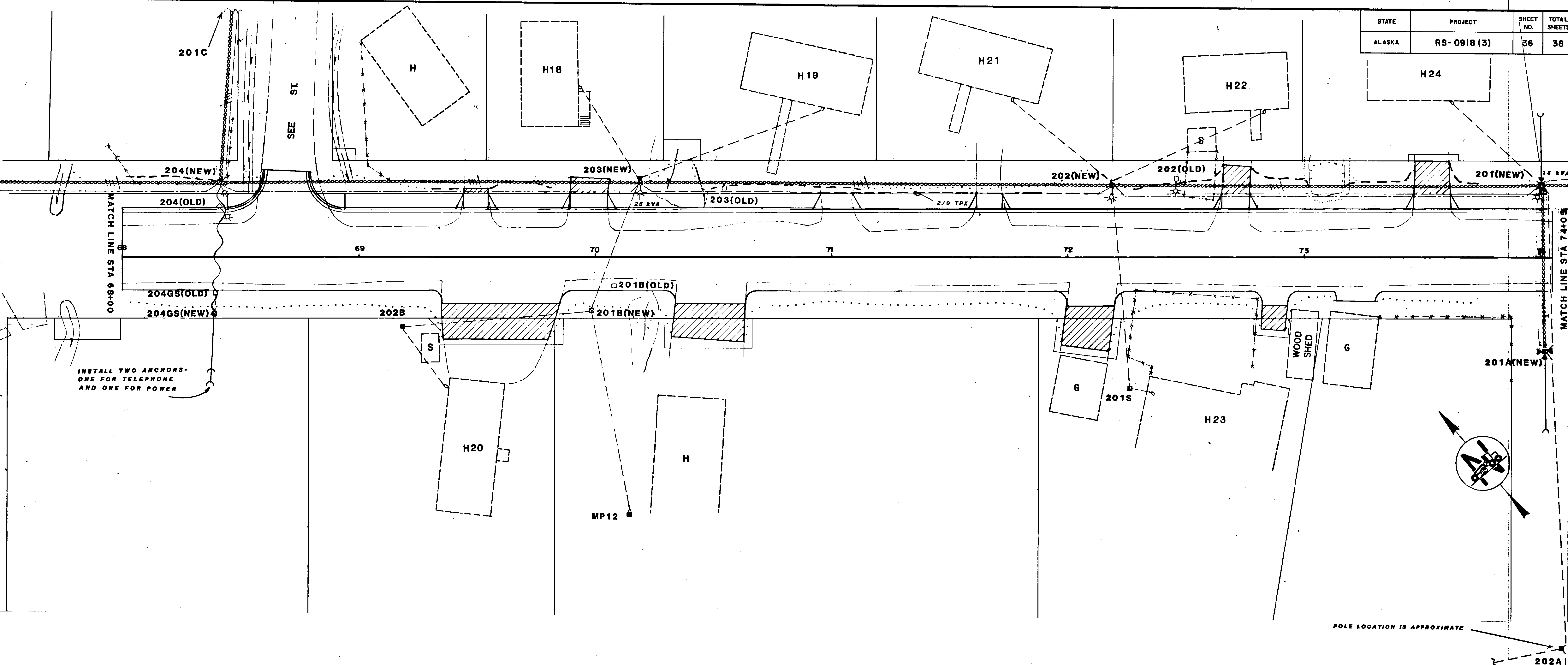
APPD FILE 525.6101 DMC No



STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	35	3

8/11/86 RNP		ADDITION OF POLE 201W		4/23/87 RNP		ADDED ANCHOR NOTES	
DATE	BY	APPR	REVISION	DATE	BY	APPR	REVISION
STATE OF ALASKA, RS-0918(3) HOONAH ARTERIAL 12.5 KV DISTRIBUTION LINE HOONAH SEAFOODS TO WHITE ALICE ROAD T. E. NEUBAUER & ASSOCIATES CONSULTING ENGINEERS JUNEAU, ALASKA							
DRWN	RNP & TCO	DATE	4-25-86	SCALE	1"=20'	SHEET 35 OF 3	
APPR		FILE	525.6101	DWG No			

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	36	38



8/11/86 RNP

DATE BY APPR

CHANGES WITH POLE 201S 12/23/87 RNP

DATE BY APPR

4/26/97 WFN

CHANGES TO ANCHOR LEADS AND NOTES.

CHANGES TO ANCHOR LEADS

ADDITION OF POLE 201A(NEW)

STATE OF ALASKA, RS-0918(3)

HOONAH ARTERIAL 12.5 KV DISTRIBUTION LINE:

HOONAH SEAFOODS TO WHITE ALICE ROAD

T. E. NEUBAUER & ASSOCIATES

CONSULTING ENGINEERS JUNEAU, ALASKA

DRWN RNP & TCO

APPR

DATE 4-25-86

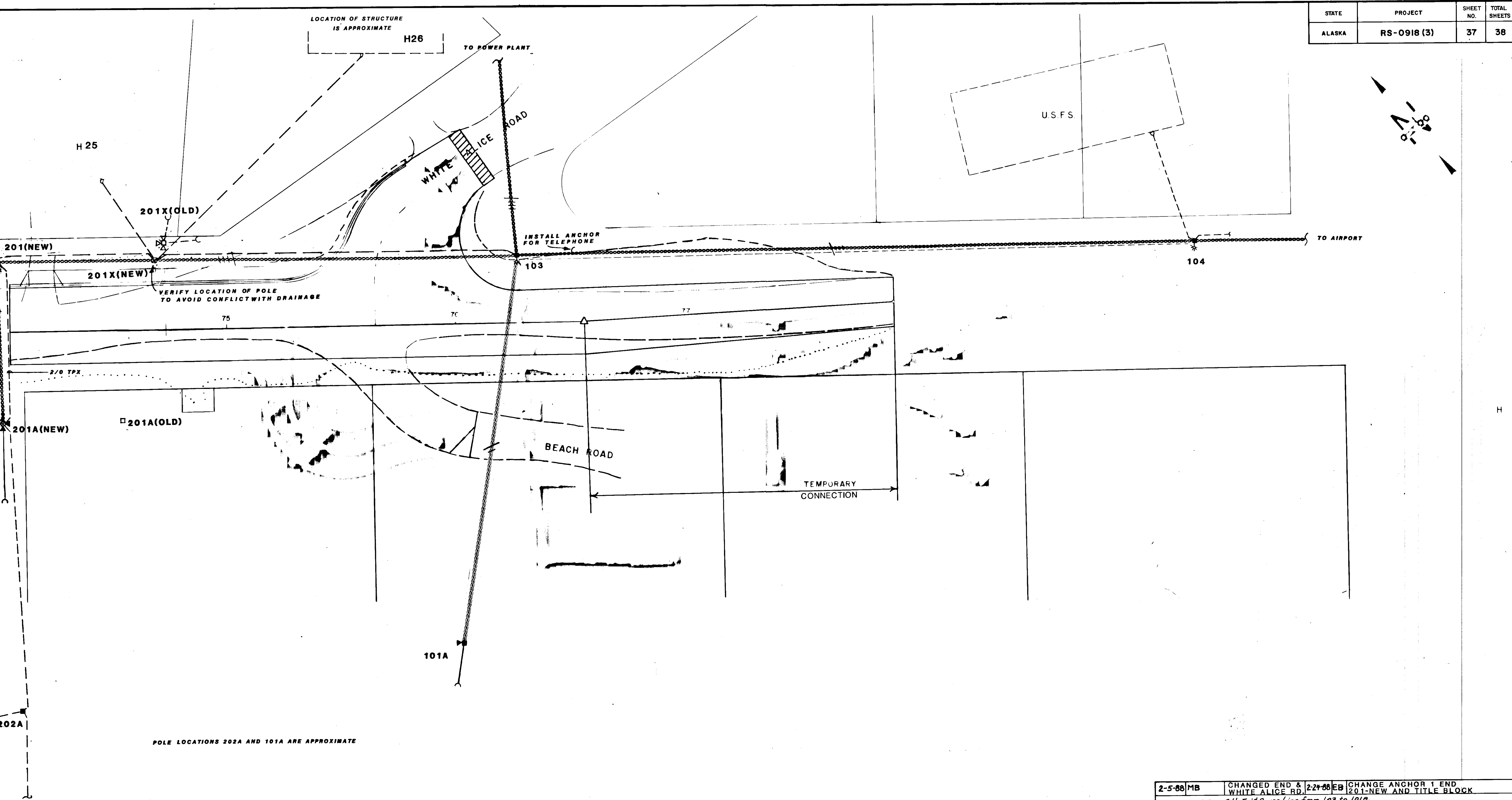
FILE 525.6101

SCALE 1"=20'

DWG No

SHEET 36 OF 38

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0918 (3)	37	38



2-5-88 MB	CHANGED END & WHITE ALICE RD.	2-24-88 EB	CHANGE ANCHOR 1 END 201-NEW AND TITLE BLOCK
6-5-87 W.D.A. Add Exst. Power Line from 103 to 101A, Removed Proposed Line. - CHANGES TO ANCHOR LEADS - CHANGES TO POLES 201X AND 201A(OLD)			
11/23/87 RNP	DATE	BY	REVISION
11/23/87	RNP	4/24/87	WFM
CHANGES AT POLE 201X			

STATE OF ALASKA, RS-0918(3)

HOONAH ARTERIAL 12.5 kV DISTRIBUTION LINE:

HOONAH SEAFOODS TO WHITE ALICE ROAD

T. E. NEUBAUER & ASSOCIATES

CONSULTING ENGINEERS JUNEAU, ALASKA



DRWN RNP & TCO DATE 4-25-86 SCALE 1" = 20'

APPR FILE 525.6101 DWG No

SHEET 37 OF 38

