

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9), S-0943(10), F-095-4(II)	1969	I	43

STATE OF ALASKA DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT S-0943(9), S-0943(10), F-095-4(II) WRANGELL EAST - SPUR TO AIRPORT GRADING & DRAINAGE FERRY TERMINAL & FERRY TERMINAL SOUTHEAST SEALCOAT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & MISC. TABLES
3	ESTIMATE OF QUANTITIES
4	MATERIALS SITE LOCATIONS
5-11	PLAN & PROFILE SHEETS
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21	BRASS CAP MONUMENT SUMMARY SHEET
22	R.O.W. MONUMENT SUMMARY SHEET
23	SEAL COAT LIMITS

The following standard drawings apply to this project: A-1, D-1a, D-2, D-3, D-4, M-1, M-3, R-1, R-3, R-8, T-1, T-2, T-9, T-11, T-15, T-16(1&2), T-18, T-19, T-20.

As Built

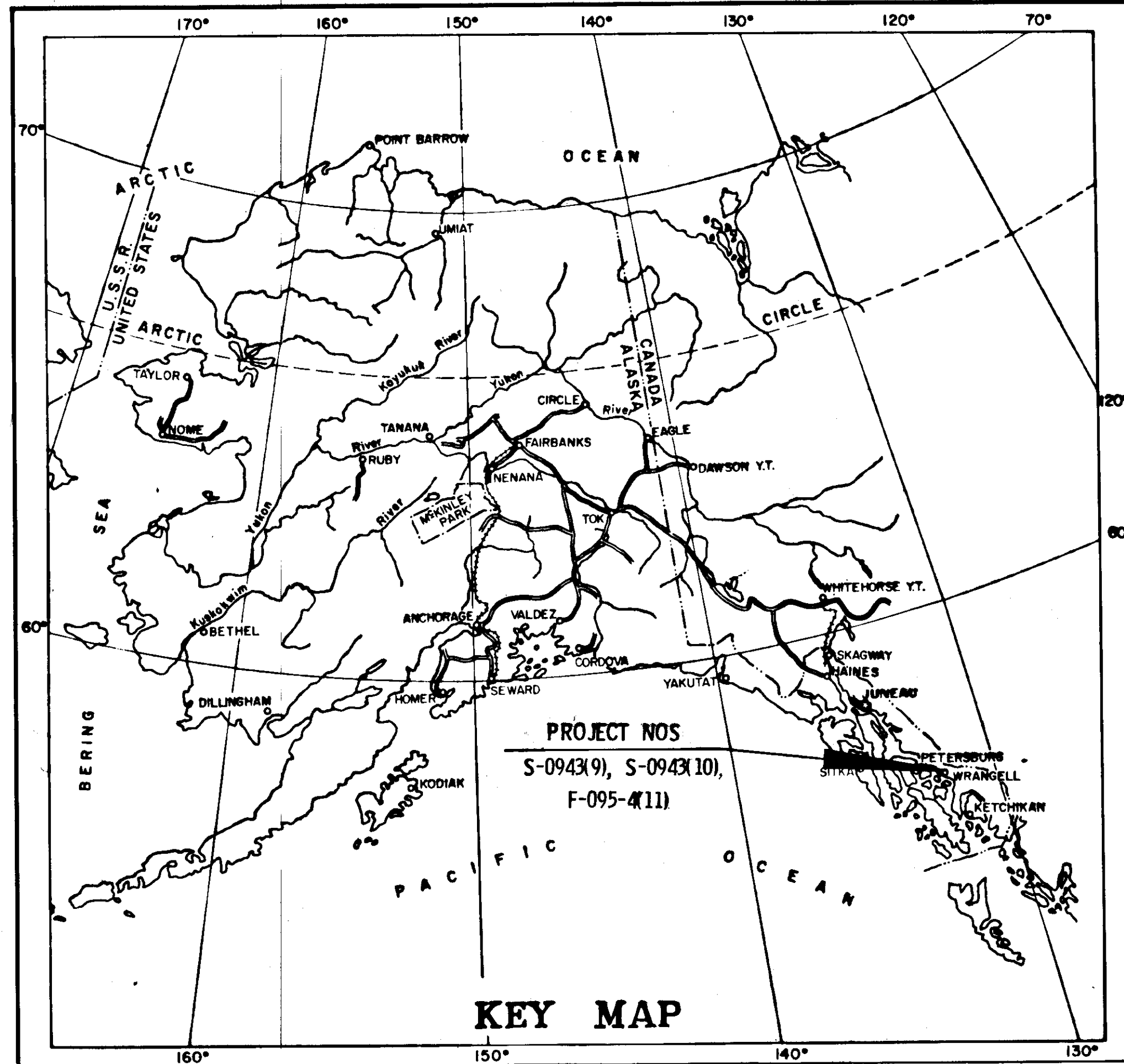
As Built Plans

Burgess Construction Co., Contractor

S. N. Hirotsu, Project Engineer

June 1970, Beginning of Work

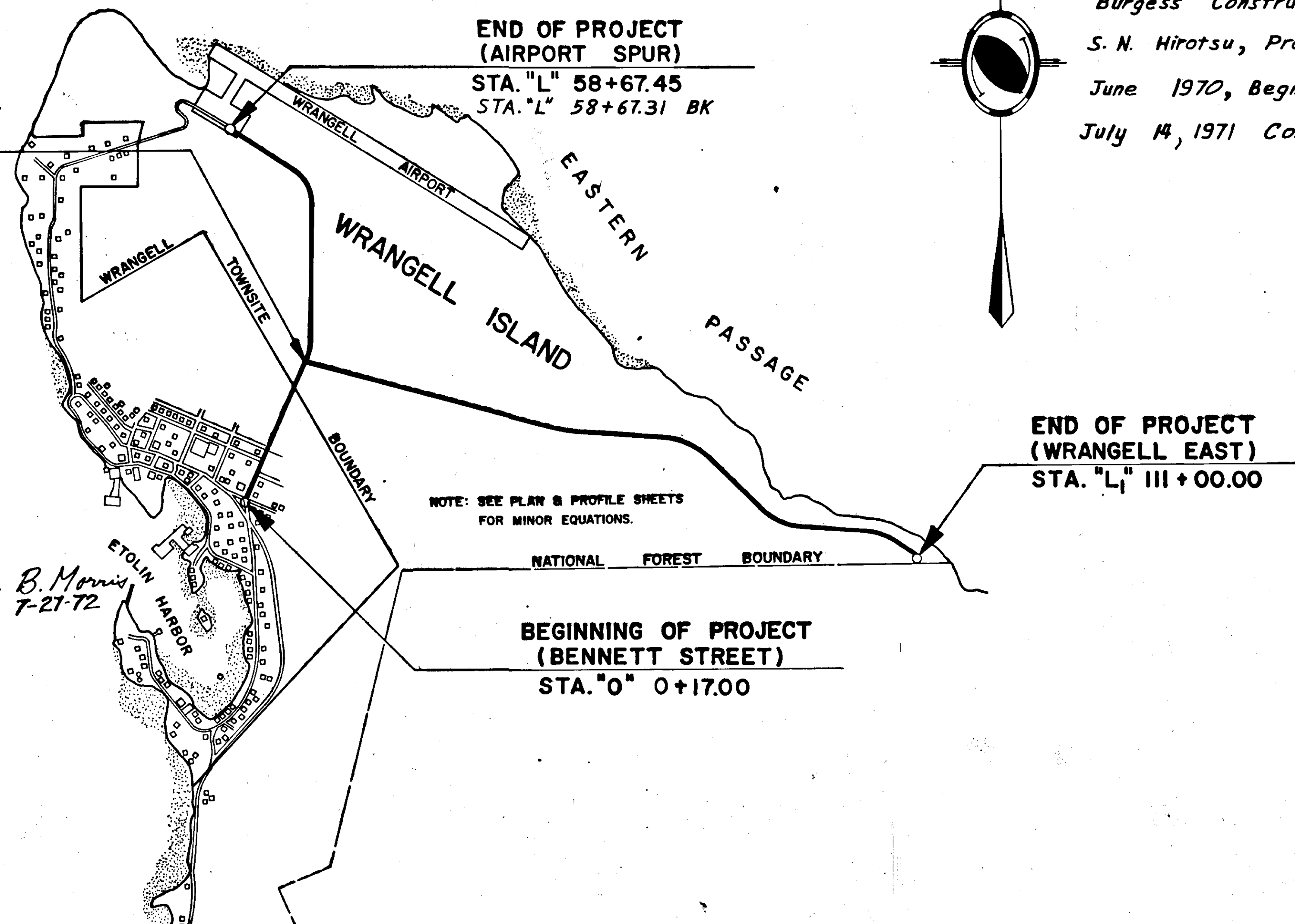
July 14, 1971 Completion of Project



KEY MAP

PROJECT NOS
S-0943(9), S-0943(10),
F-095-4(II)

BEGINNING OF PROJECT
(WRANGELL EAST)
STA. "L" 13+82.09 =
STA. "L" 21+39.40



END OF PROJECT
(AIRPORT SPUR)
STA. "L" 58+67.45
STA. "L" 58+67.31 BK

END OF PROJECT
(WRANGELL EAST)
STA. "L" III+00.00

BEGINNING OF PROJECT
(BENNETT STREET)
STA. "0" 0+17.00

NOTE: SEE PLAN & PROFILE SHEETS
FOR MINOR EQUATIONS.

*Checked by B. Morris
7-27-72*

	DESIGN	DESIGNATION
	WRANGELL to AIRPORT	WRANGELL EAST
ADT (1969) =	65	11
ADT (1989) =	190	50
DHV =	29	10
D =	40-60	35-65
T =	5%	5%
V =	40 M.P.H.	40 M.P.H.

PROJECT SUMMARY

BENNETT STREET B.Q.P. to SECOND AVE.	REMAINDER OF PROJECT
---	-------------------------

WIDTH OF SUBGRADE	1168.12	51' 0.221 Mi	14,384.628'
LENGTH OF GRADING	1170.93	= 0.222 mi.	14,398.41 = 2.727 mi.
LENGTH OF PROJECT	15,569.34	= 2.949 mi.	15,552.81 2.946 mi.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED:

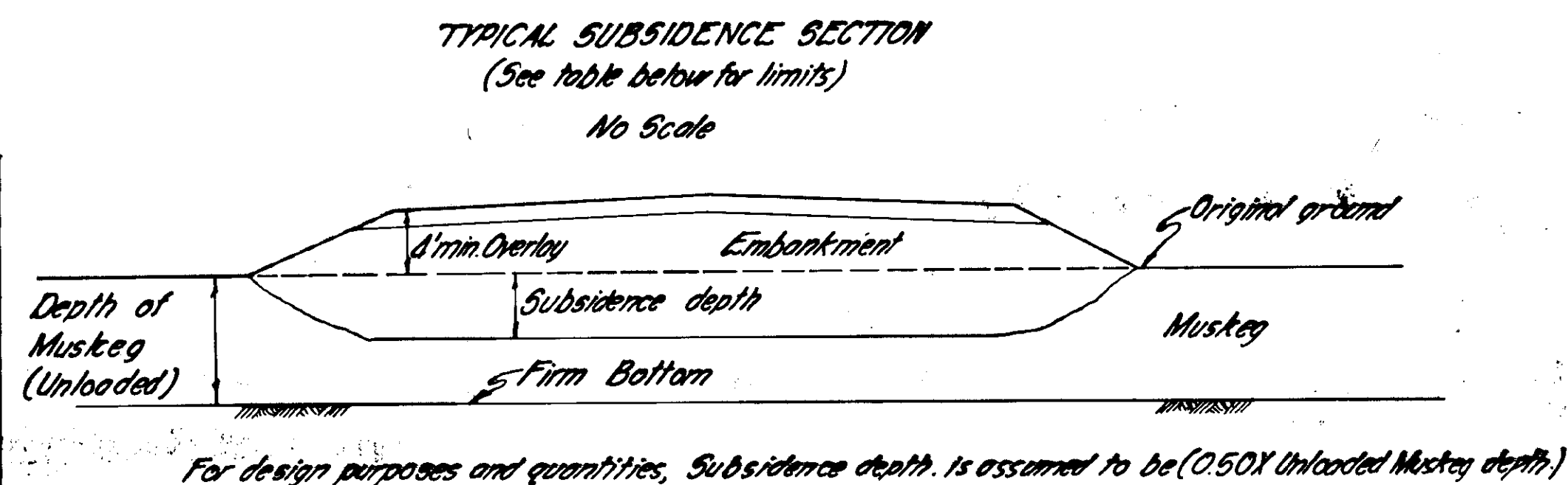
Harmon S. Wild DATE 9/8/69
DISTRICT HIGHWAY ENG.
JUNEAU DISTRICT

R.D. Dendley DATE 9/8/69
COMMISSIONER OF HIGHWAYS

TABLE OF FILL SLOPES

Stations	Height of Fill		
	0-5'	5'-20'	>20'
Z"0+17.00			
to	4:1	2:1	1 1/2 : 1
Z"58+67.45			
to	0-5'	5'-15'	>15'
Z"73+96.09			
to	4:1	2:1	1 1/2 : 1
Z"111+00.00			

*Sta. Z"2+90 to Z"13+00 (L. side only), fill slope is 2:1 for fill heights greater than 2.0 ft.



Subsidence Section *

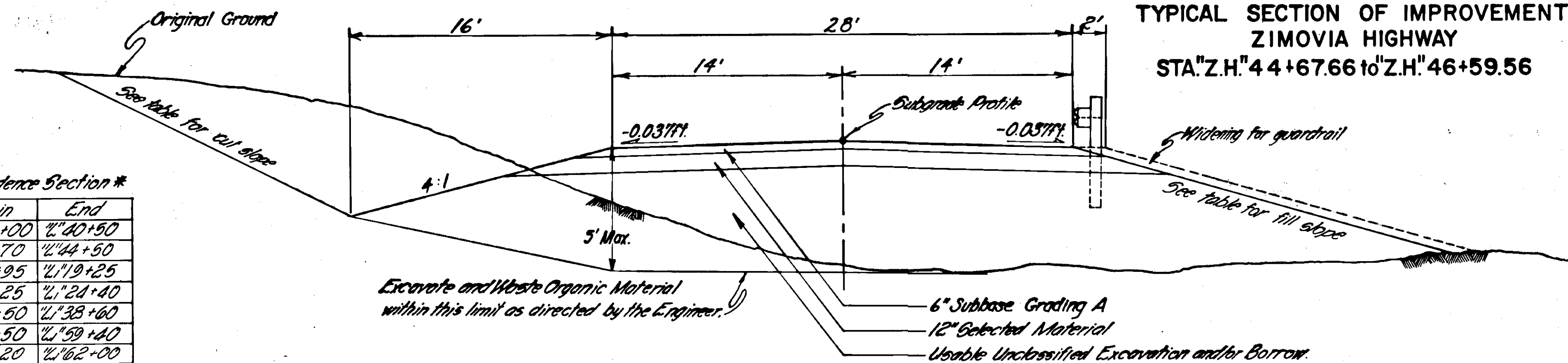
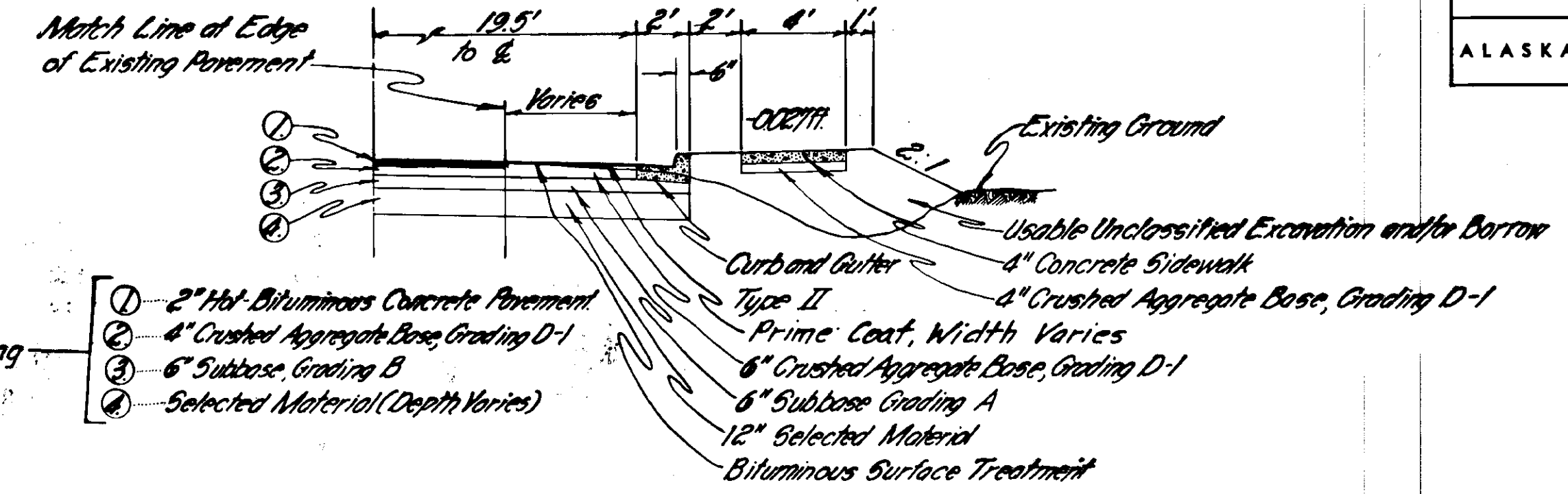
Begin	End
Z"12+00	Z"40+50
Z"41+70	Z"44+50
Z"13+95	Z"19+25
Z"21+25	Z"24+40
Z"30+50	Z"38+60
Z"48+50	Z"59+40
Z"60+20	Z"62+00
Z"64+20	Z"70+75
Z"79+25	Z"82+50

* Between listed stations, embankments shall be constructed by placing usable unclassified excavation and/or borrow material directly on existing ground. Prior to placement of embankment, existing ground shall be left in an undisturbed state.

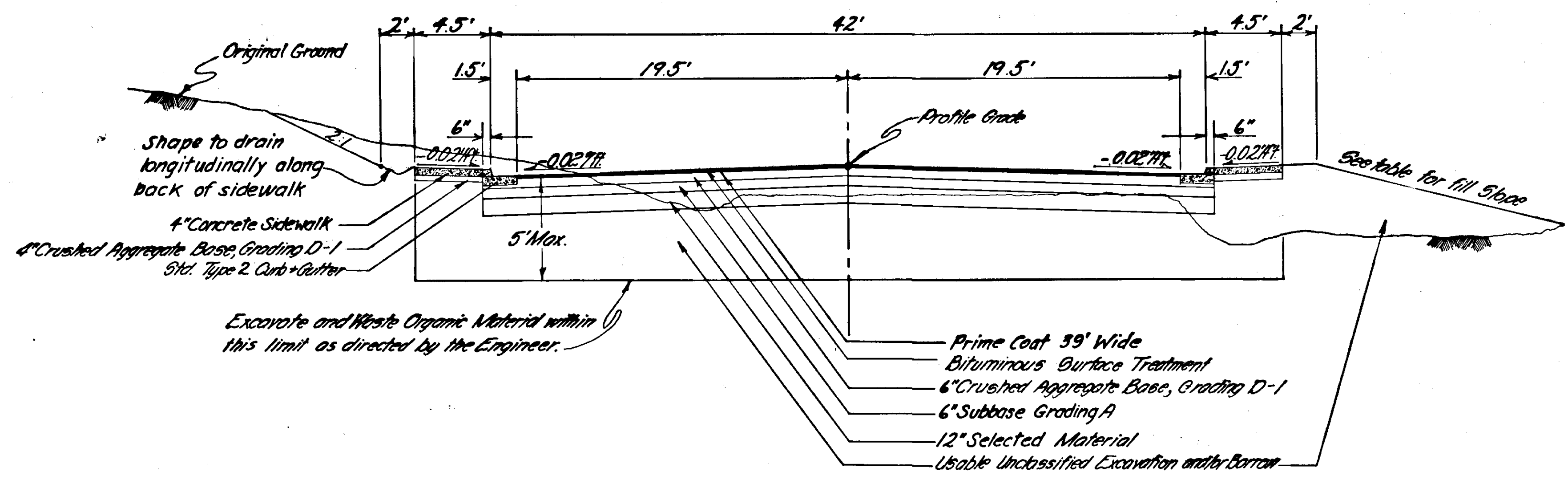
TABLE OF CUT SLOPES

Stations	Height of Cut		
	0-5'	5'-10'	>10'
Z"0+17.00			
to	2:1	2:1	2:1
Z"58+67.45			
to	0-5'	5'-15'	>15'
Z"73+96.09			
to	2:1	2:1	2:1
Z"40+50.00			
to	1:1	1 1/2 : 1	1 1/2 : 1
Z"90+00.00			
to	1 1/2 : 1	1 1/2 : 1	1 1/2 : 1
Z"96+00.00			
to	1:1	1 1/2 : 1	1 1/2 : 1
Z"111+00.00			

Note: Back slopes may be adjusted in rock areas, as stated by the Engineer.



TYPICAL SECTION OF IMPROVEMENT
Sta. L"13 + 95.00 to Sta. 58 + 67.45 AIRPORT SPUR
Sta. L"13 + 82.09 to Sta. 111 + 00 WRANGELL EAST
TRANSITION SECTION
Sta. L"11 + 66.00 to Sta. 13 + 95.00 AIRPORT SPUR



TYPICAL SECTION OF IMPROVEMENT
BENNETT STREET
Sta. "O" 0+17.00 to Sta. "L" 11+66.00

SUMMARY OF CURB CUTS

STATION	LOCATION	TYPE
Z.H. 45+00	Rt.	2
Z.H. 45+38	Rt.	2
Z.H. 45+83	Rt.	2
"O" 1+00	Lt.	1
"L" 2+30	Rt.	1
"L" 2+34	Lt.	1
"L" 3+00	Rt.	1
"L" 5+30	Rt.	30 ft.
"L" 6+65	Lt.	2
"L" 7+18	Rt.	30 ft.
"L" 9+15	Lt.	2
"L" 9+91	Lt.	1
"L" 10+65	Lt.	2

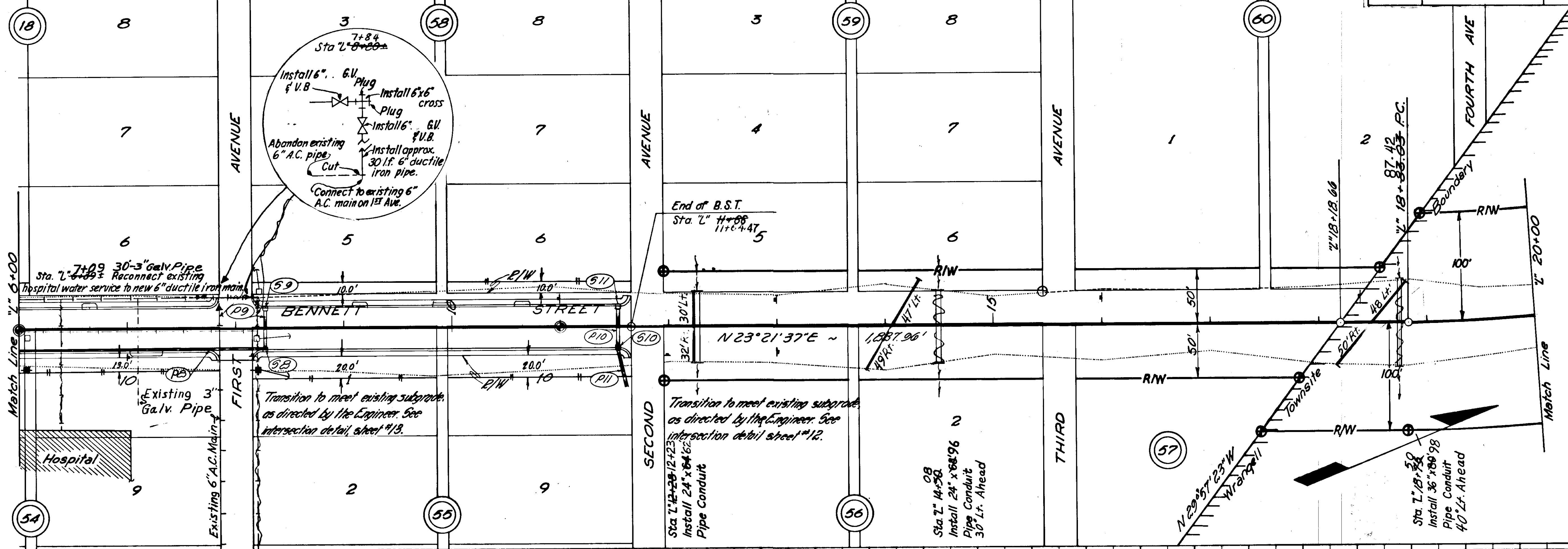
GUARDRAIL TABLE

Stations	Length (L.F.)	Side
Z"73+60		
Z"73+35	162.5	
to Z"75+22.5	+375'	Left
Z"74+70.4		
Z"96+85		
to	162.5	Left
Z"98+27.5		
to Z"102+25		
Z"102+40		
to Z"102+00	+68-175	Left
Z"101+40		
Z"96+50 to	75'	Rt.
Z"97+25		

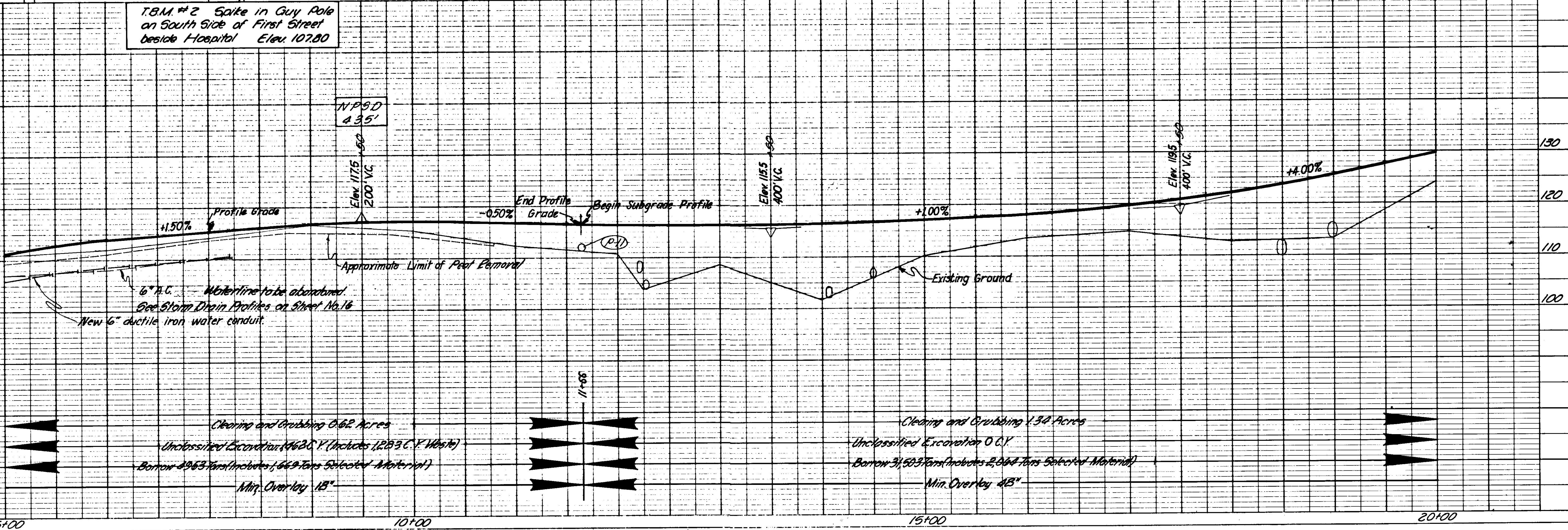
GENERAL NOTES

- Grades and alignment shown on these plans are subject to minor revisions.
- Culvert lengths and locations are approximate only and are subject to minor revisions.
- All waste or surplus material encountered on this project may be disposed of at locations shown on the plans, in a manner approved by the Engineer.
- Miscellaneous and minor right-of-way encroachments, within the construction limits at the time of construction, such as fences, signs, abandoned foundations, etc., shall be removed by the Contractor as directed by the Engineer. Such work will be considered incidental to other items of work performed under this contract.
- The clearing limits shall be a neat line five feet beyond the slope limit in fill sections or ten feet beyond the slope limit in cut sections, or to the right-of-way line, whichever is less.
- Where culverts are to be installed in embankment sections, the excavation shall be made after the embankment has been completed to a minimum height of twelve (12) inches above the top of the culvert. Exceptions are all storm sewer pipes and the culverts at Sta. "L"88+08, "L"97+15, and "L"100+78.
- All pipe conduit shall be either corrugated steel or corrugated aluminum pipe.
- Prime coat application rate = 0.3 gal/yd²
- The removal and disposal of the CMP inlet and pipe conduit, as noted on the plans, shall be considered incidental to other items of work performed under this contract, and no separate payment shall be made therefor.
- Stripping of unsuitable material shall be required in areas as shown on the plans and as stated by the Engineer, to a depth not to exceed five (5) feet below finished shoulder grade.
- Utility poles and transformers within the construction limits will be moved by others.
- Adjustment of driveway, signs, and steps, as indicated on the plans, shall be considered incidental to other items of work performed under this contract, and no separate payment shall be made therefor.
- Overlay depths shown on the plan and Profile sheets are referenced to the top of subbase. The minimum overlay of 15" may be used in rock areas, as directed by the Engineer.

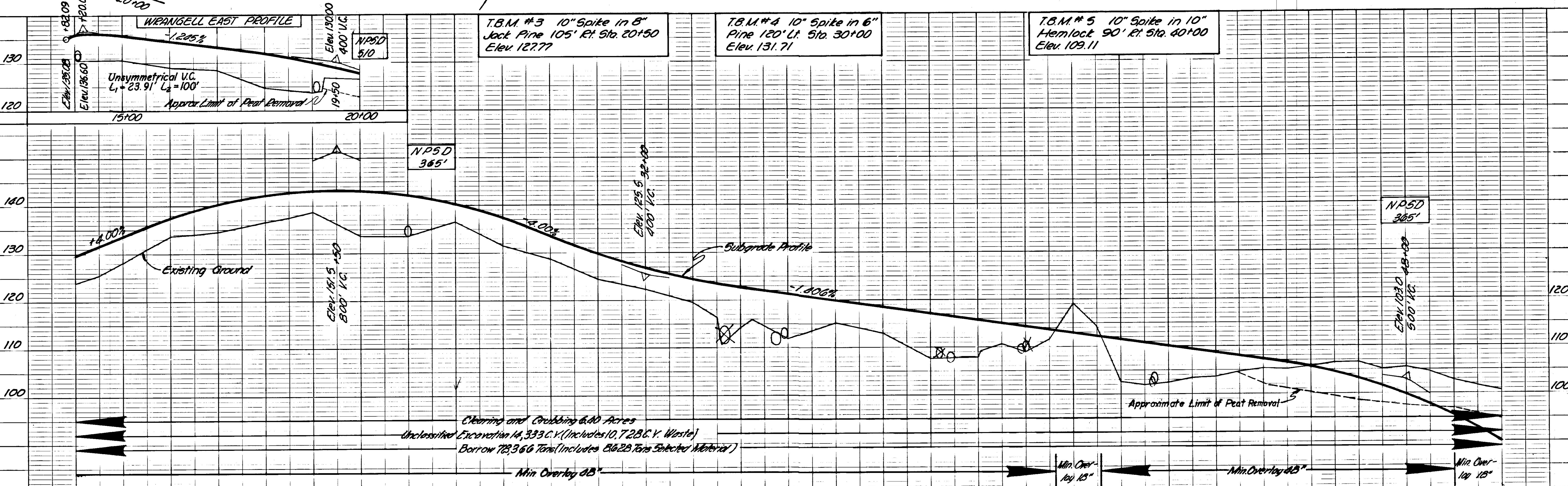
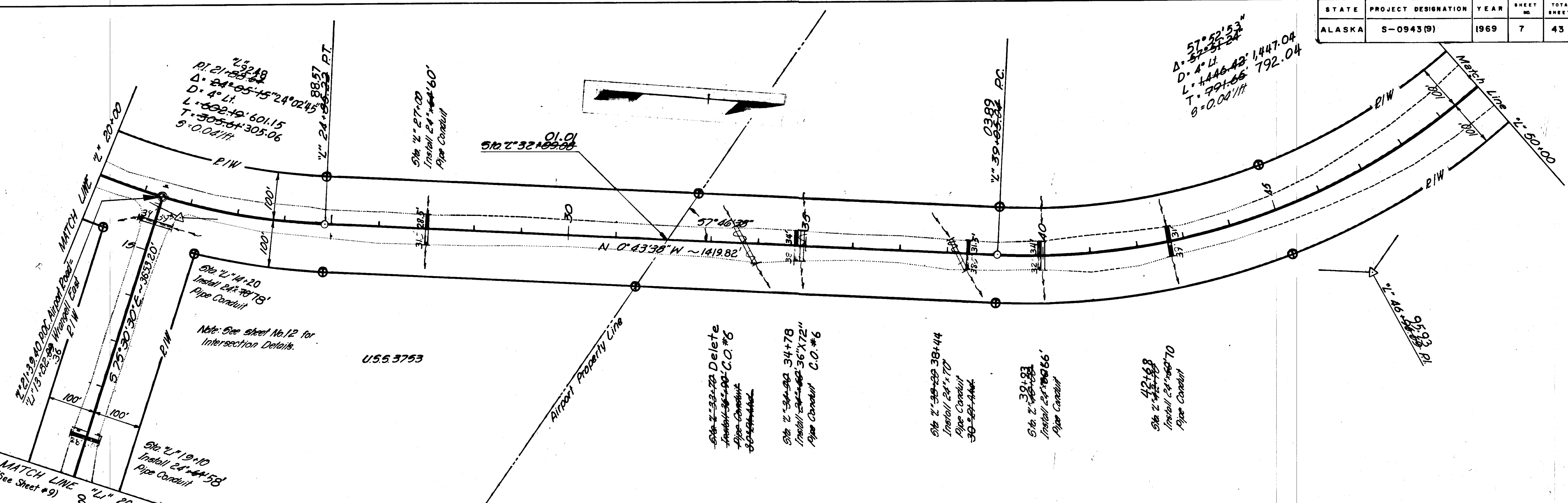
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	6	43



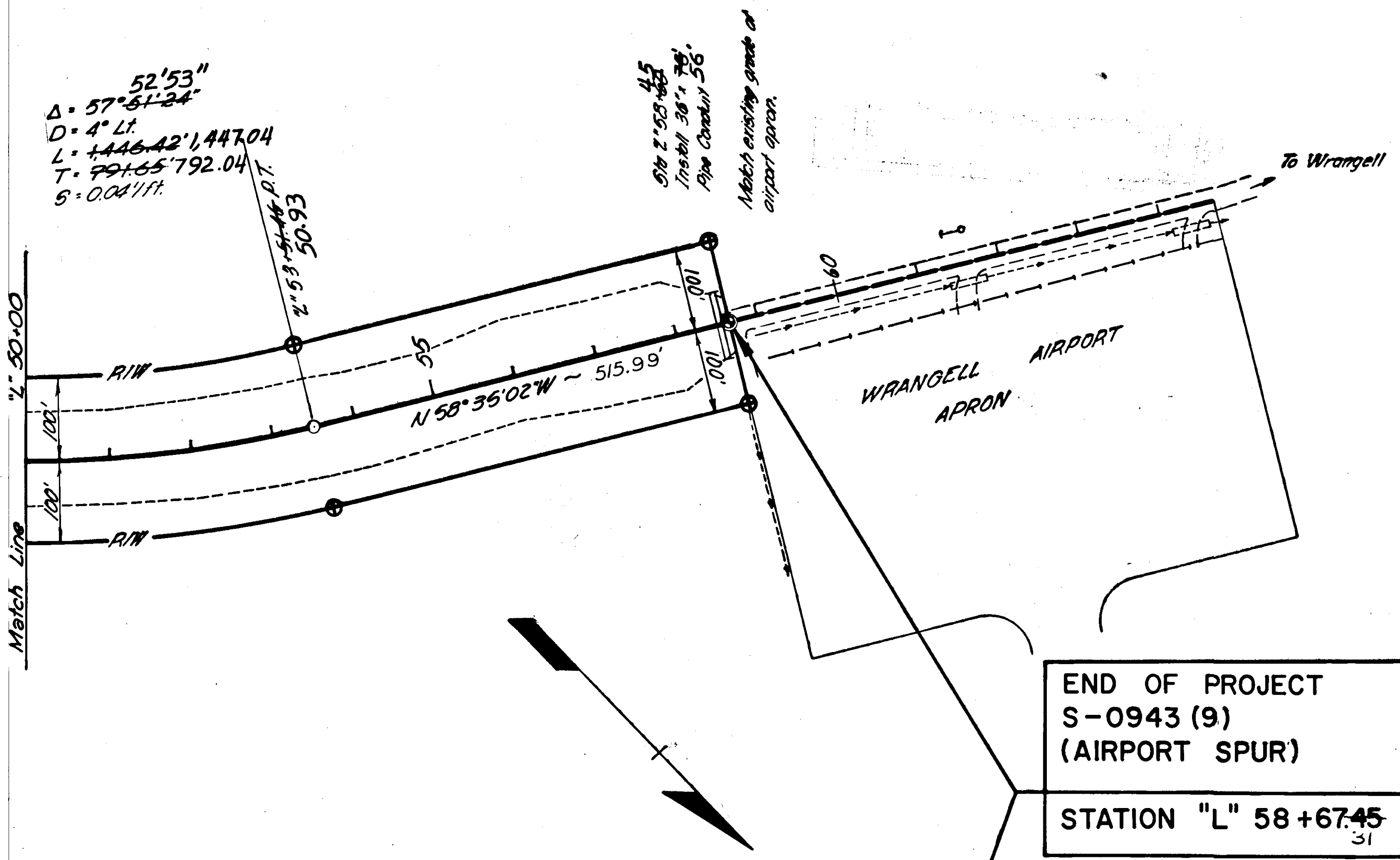
T.B.M. #2 Spike in Guy Pole on South Side of First Street beside Hospital Elev. 107.80



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	7	43

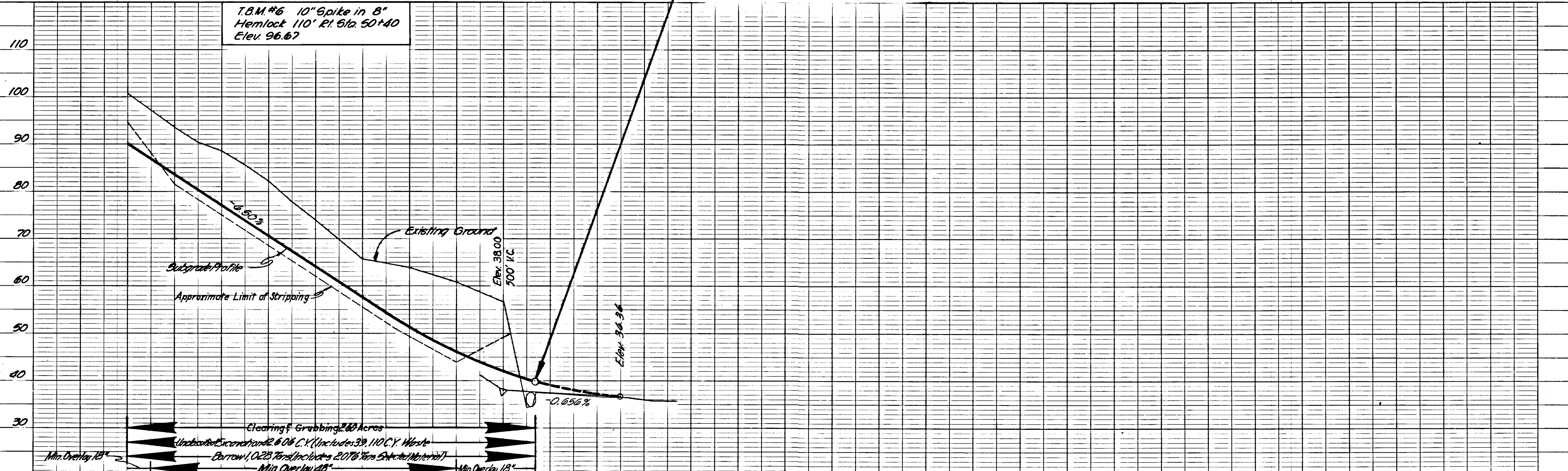


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	8	43

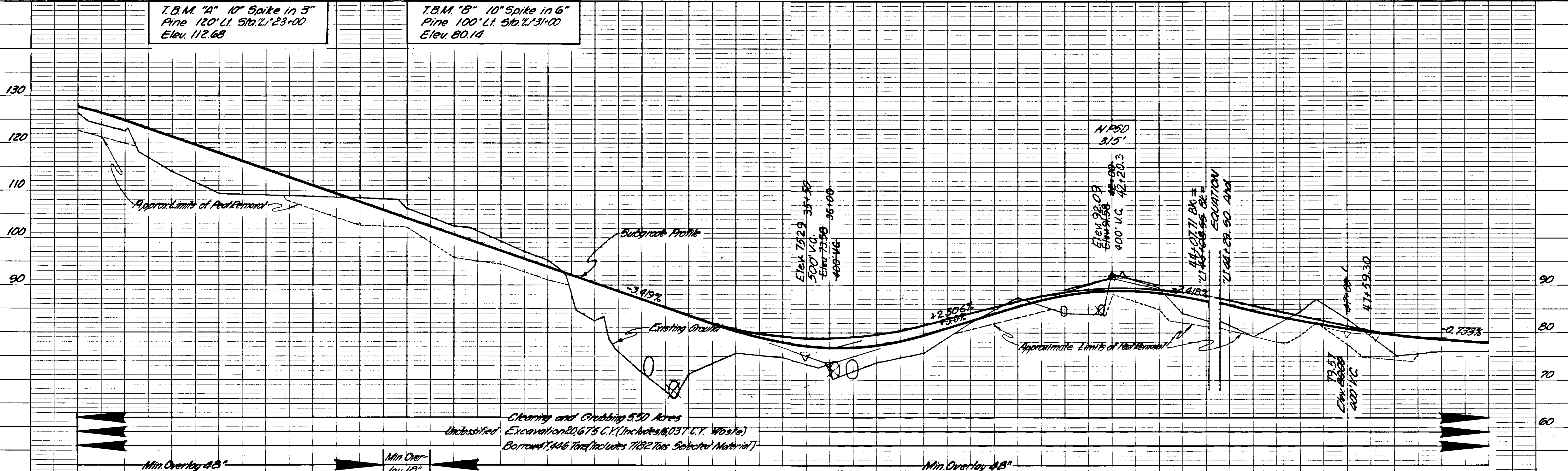
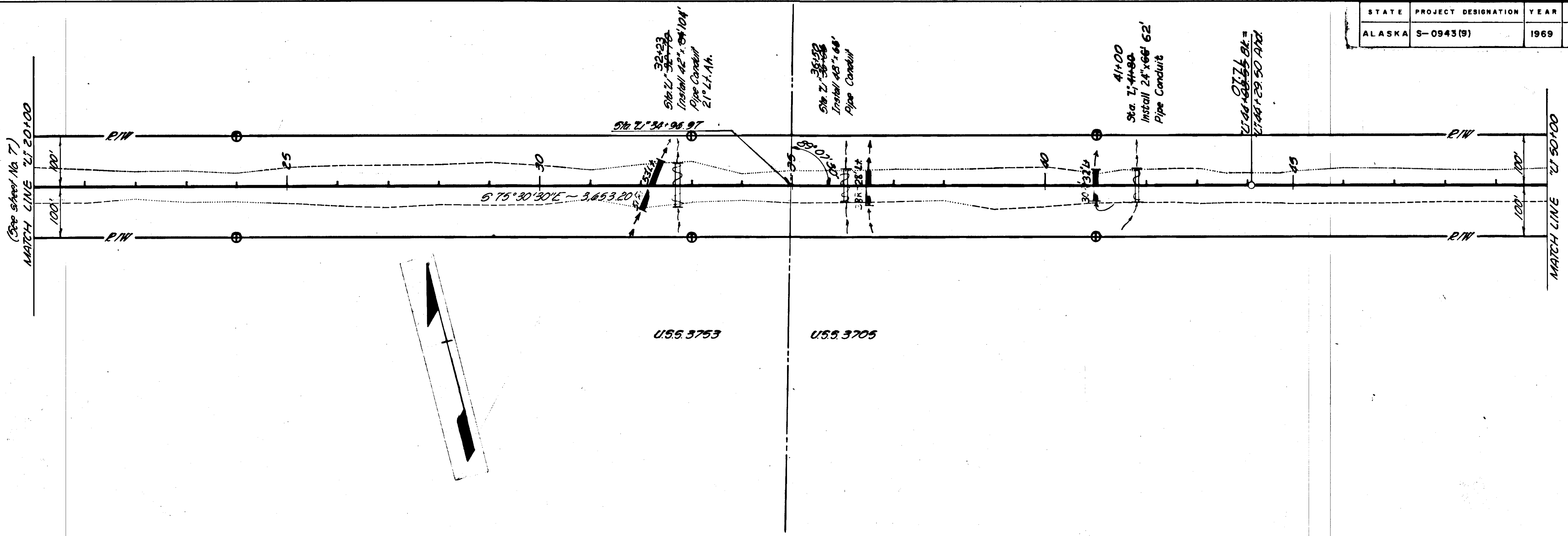


END OF PROJECT
S-0943 (9)
(AIRPORT SPUR)
STATION "L" 58+67.45
31

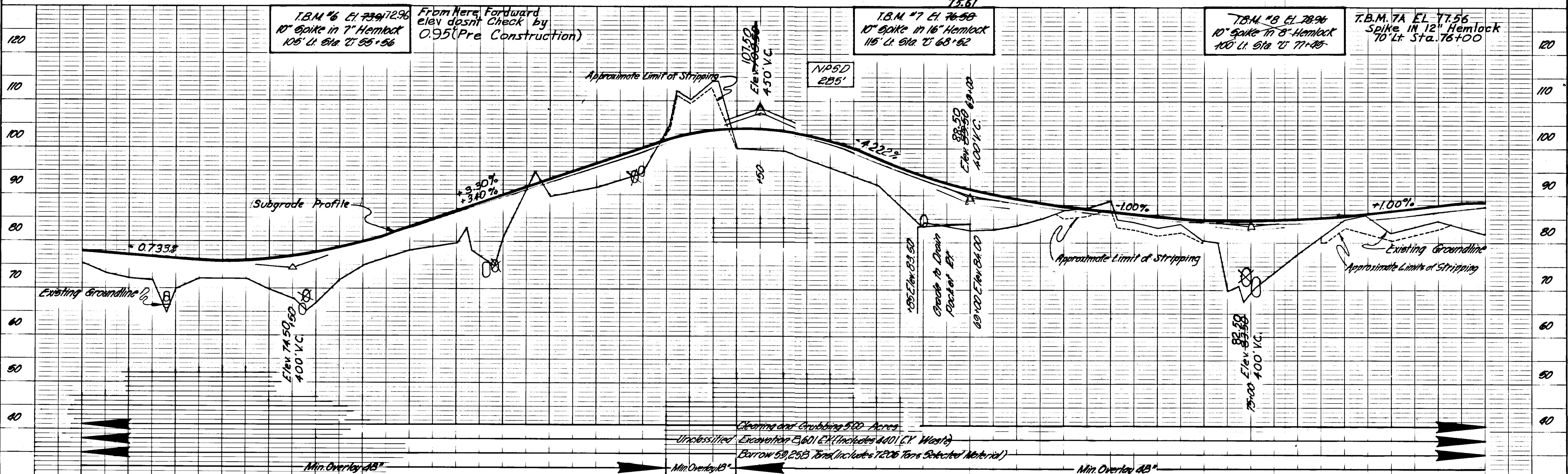
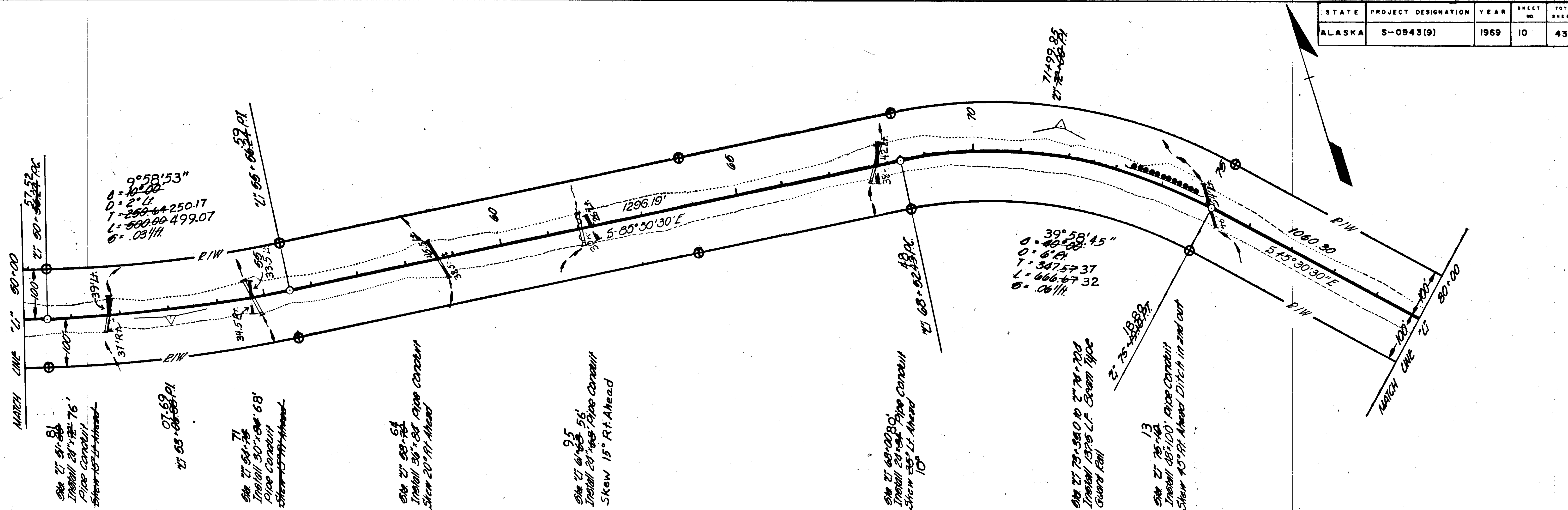
T.B.M.#6 10" Spike in 8" Hemlock 110' Rt Sta. 50+40 Elev. 96.67



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	9	43



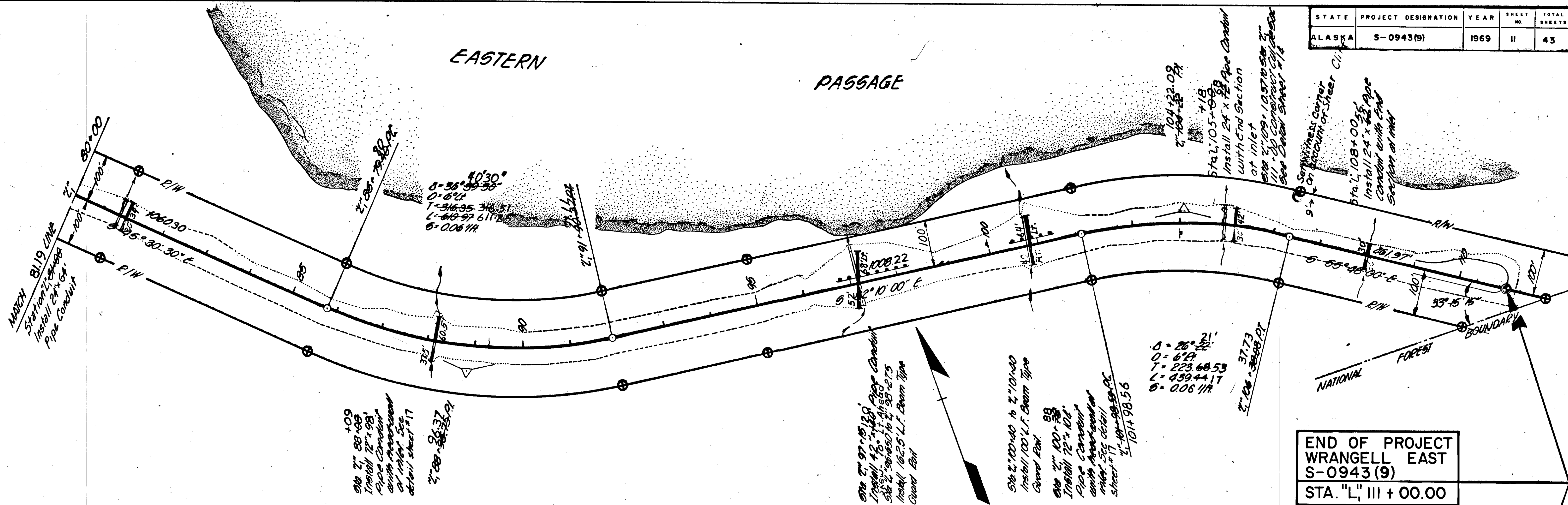
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ALASKA	S-0943(9)	1969	10	43



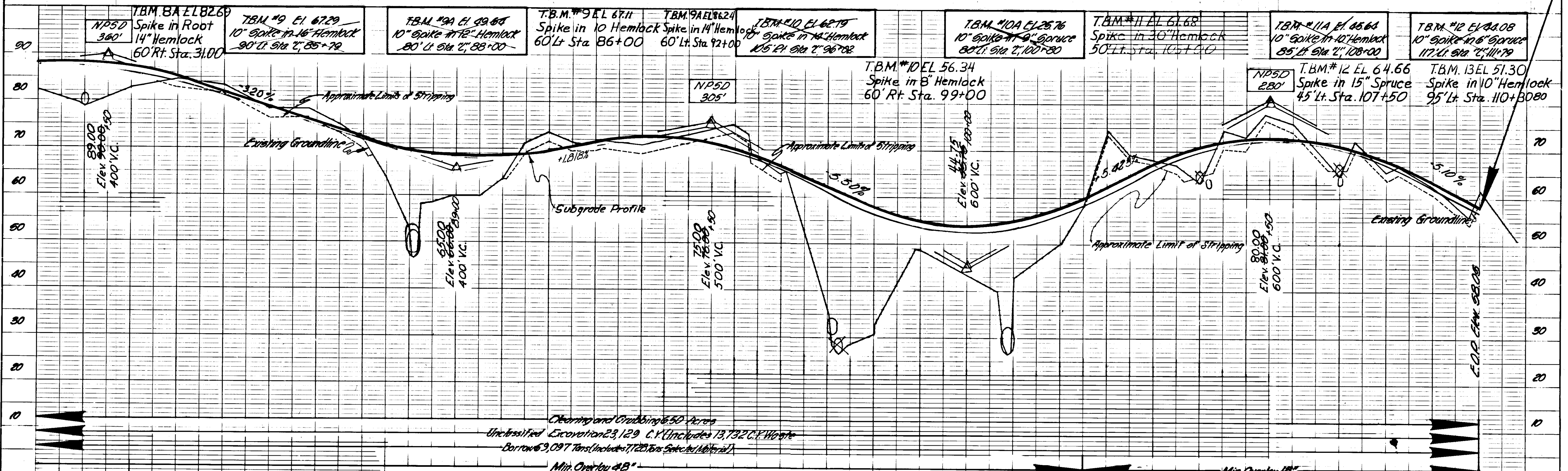
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	11	43

EASTERN

PASSAGE

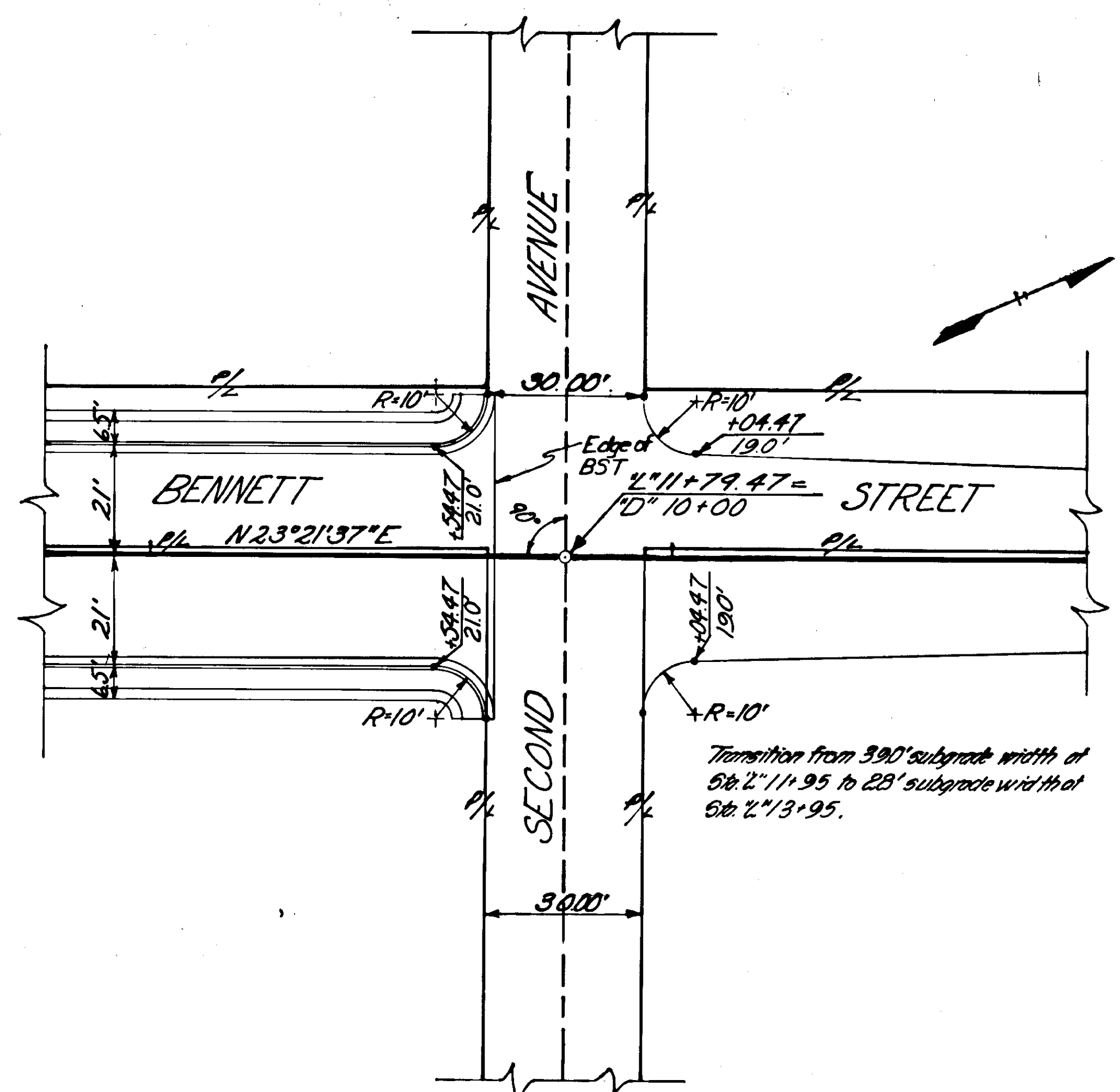


END OF PROJECT
WRANGELL EAST
S-0943(9)
STA. "L", III + 00.00

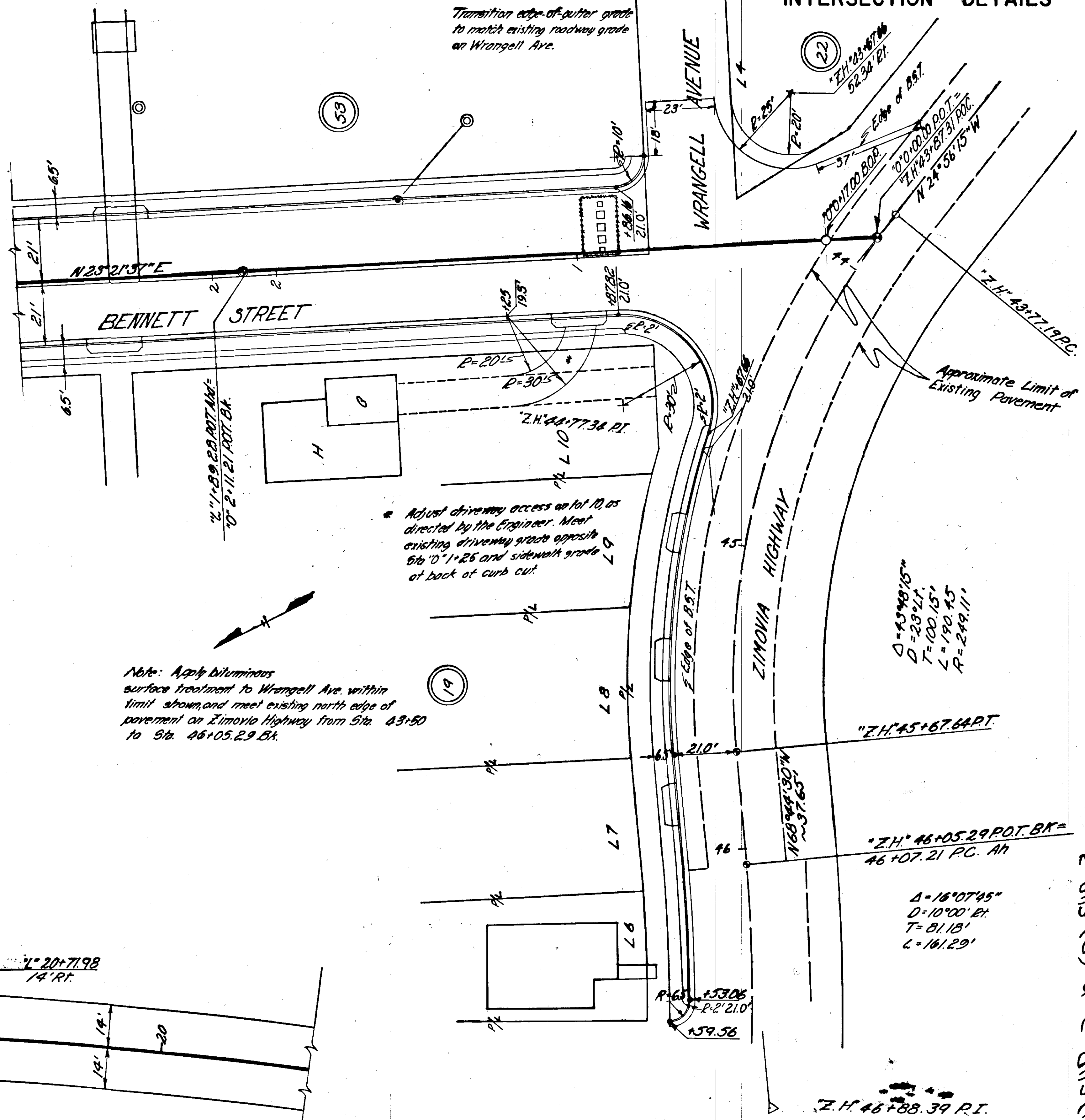


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	12	43

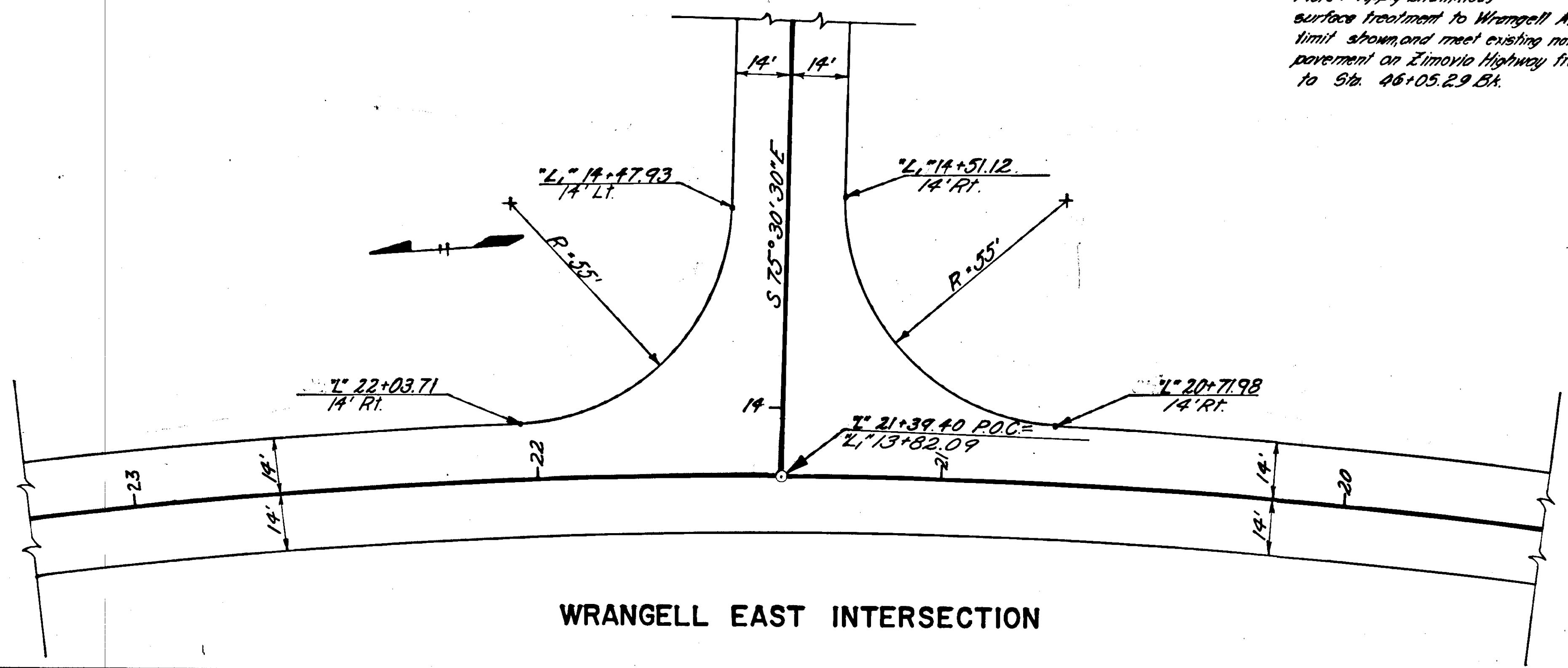
INTERSECTION DETAILS



BENNETT STREET-SECOND AVE. INTERSECTION



ZIMOVIA HIGHWAY INTERSECTION



WRANGELL EAST INTERSECTION

* Adjust driveway access on lot 10, as directed by the Engineer. Meet existing driveway grade opposite Sta. 10+25 and sidewalk grade at back of curb cut.

Note: Apply bituminous surface treatment to Wrangell Ave. within limit shown, and meet existing north edge of pavement on Zimovia Highway from Sta. 43+50 to Sta. 46+05.29 Bk.

Transition edge-of-gutter grade to match existing roadway grade on Wrangell Ave.

Approximate Limit of Existing Pavement

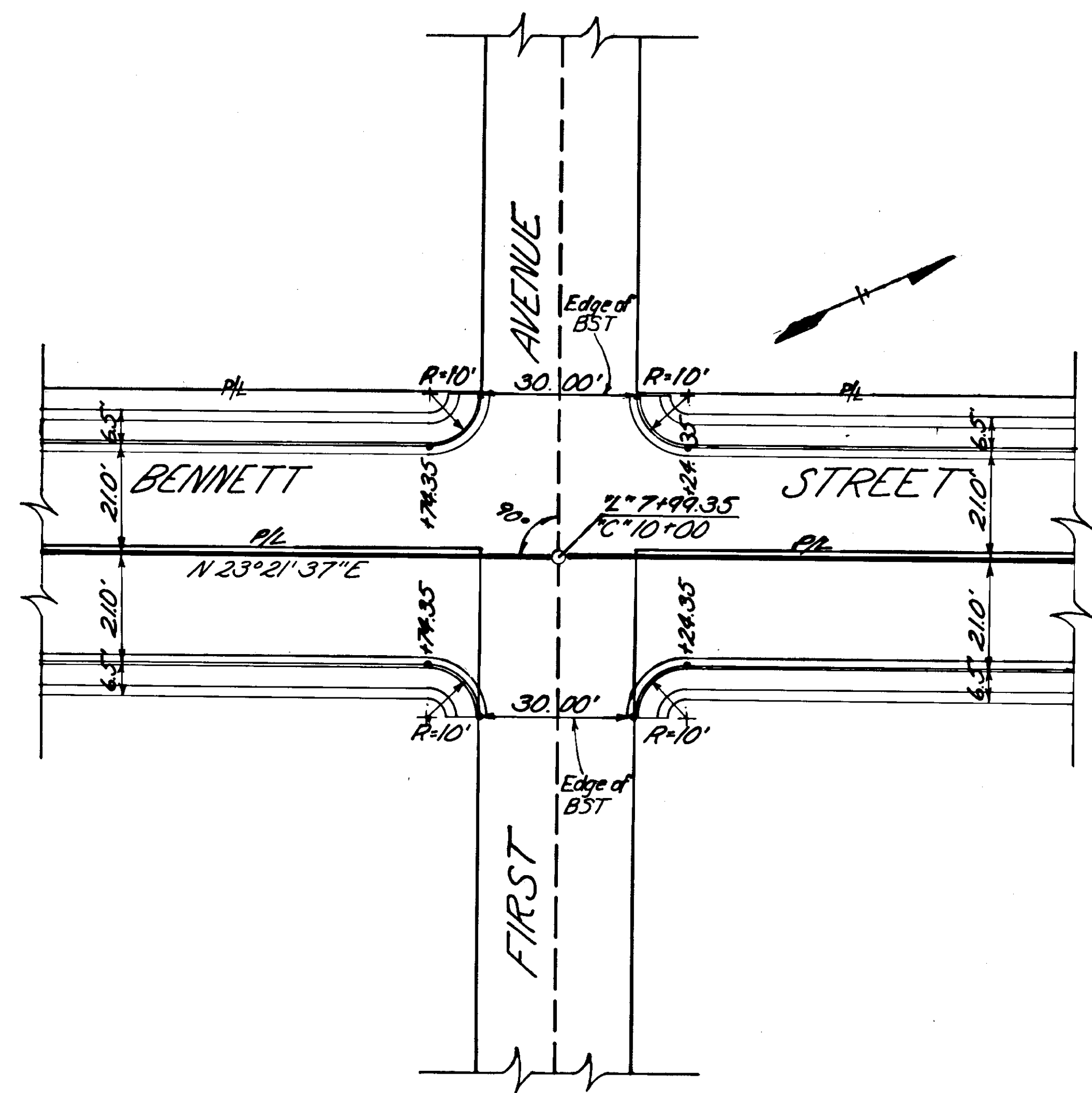
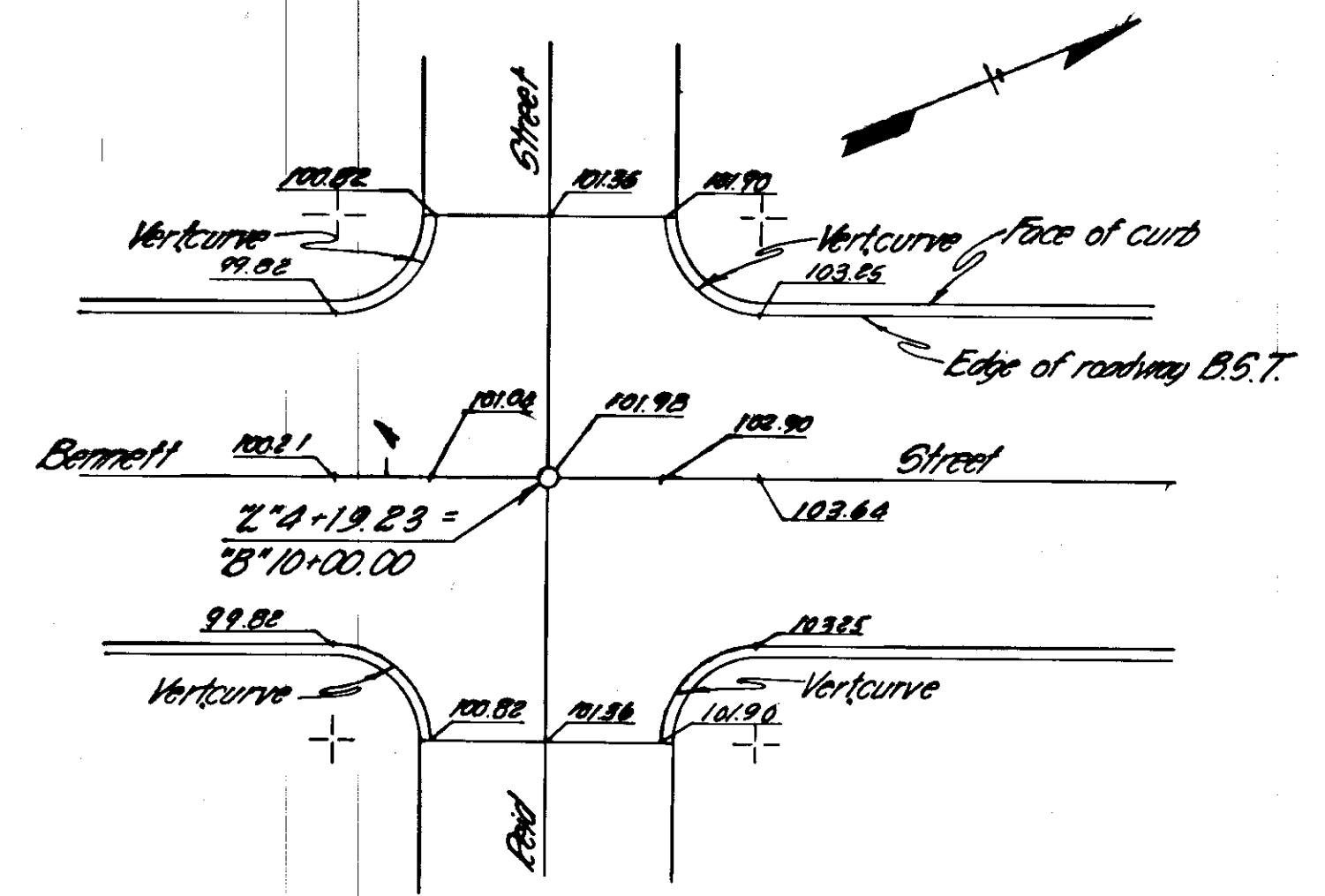
D = 43+98.15'
D = 28' 21"
T = 100.15'
L = 190.45'
R = 249.11'

Δ = 16° 07' 45"
D = 10' 00' 00"
T = 81.18'
L = 161.29'

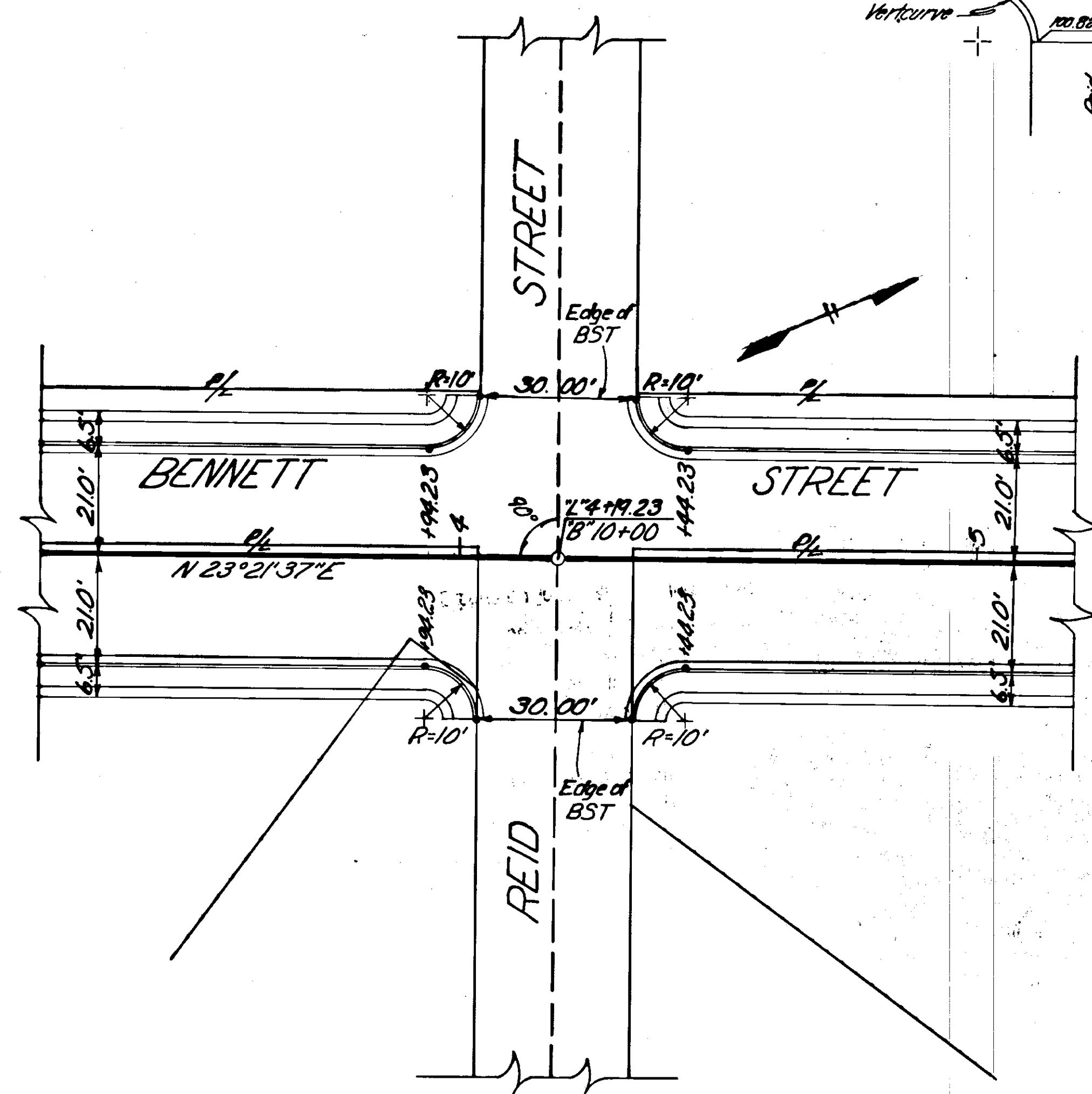
(10) EAP-2-9 (P) EAP-2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	13	43

INTERSECTION DETAILS



BENNETT STREET - FIRST AVENUE INTERSECTION

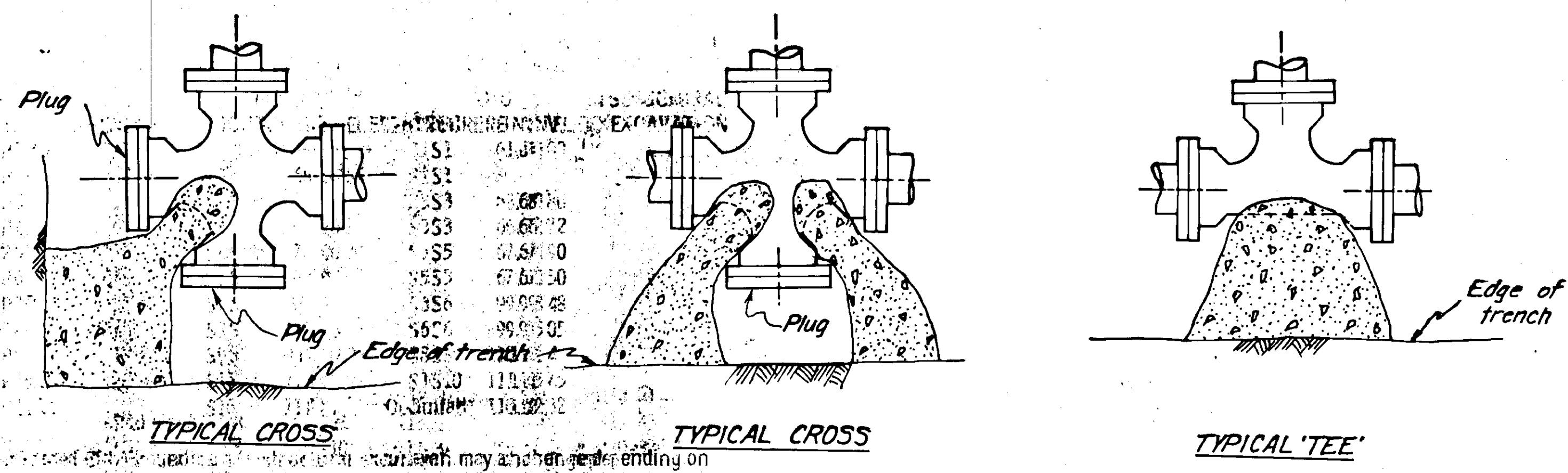


BENNETT STREET - REID STREET INTERSECTION

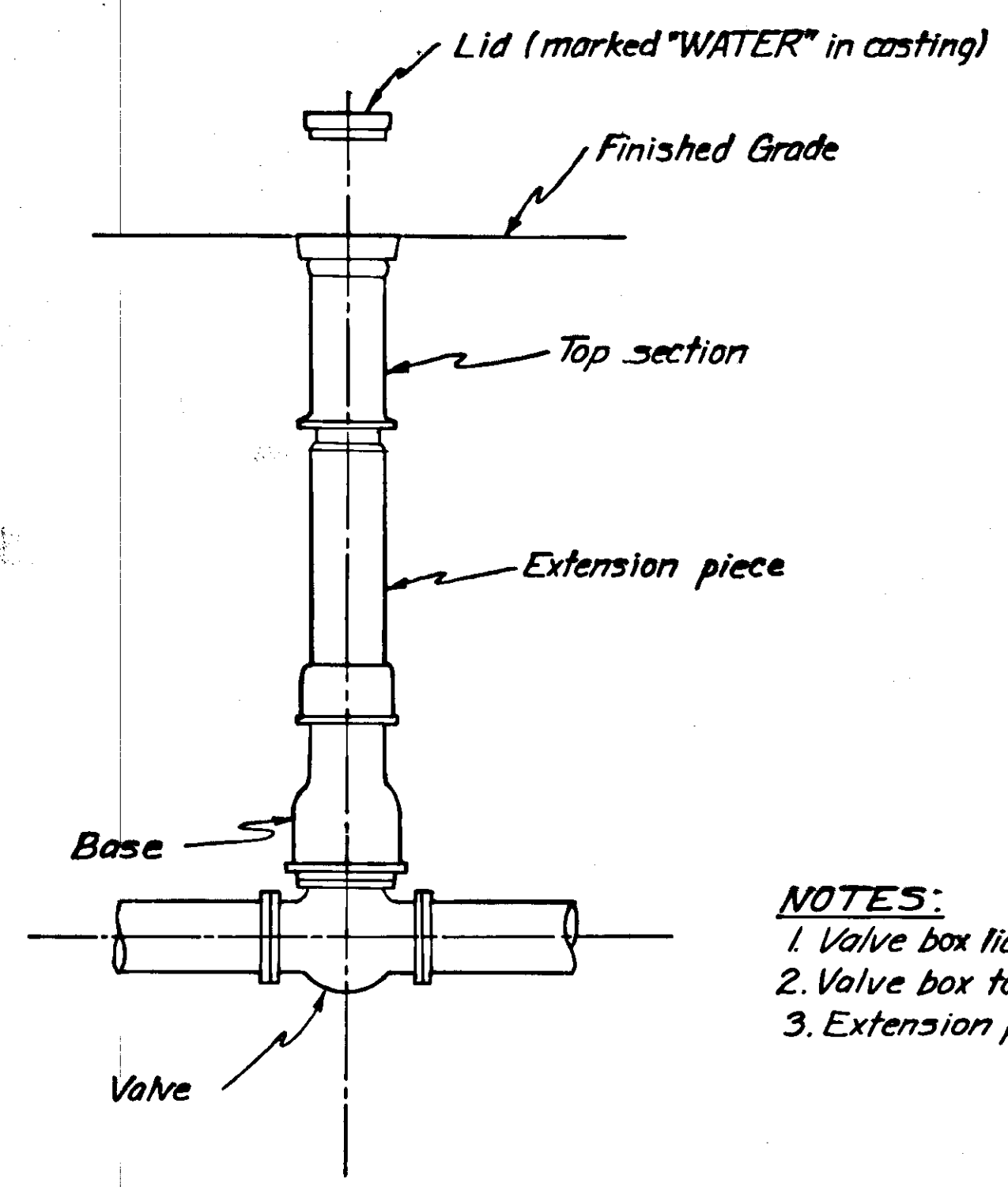
WATER LINE DETAILS

CULVERT SUMMARY

TYPICAL THRUST BLOCK DETAILS



Pipe Size **Min. Base Area**
 6" ϕ 2.00 ft²
 10" ϕ 3.0 ft²
 All thrust blocks to be class "A" concrete.



NOTES:
 1. Valve box lid to be MUELLER H-10361 or equal.
 2. Valve box to be MUELLER H-10364 or equal.
 3. Extension piece to be MUELLER H-10375 or equal.

TYPICAL VALVE BOX DETAIL
 NO SCALE

LOCATION	603 (26E)	603 (26G)	603 (26H)	603 (26I)	603 (26J)	603 (26K)	603 (26O)	603 (31G)	Head walls	Design Fill Height	Culvert Marker Post	APPROXIMATE STRUCTURAL EXCAVATION	REMARKS
	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Each	Each					
AIRPORT SPUR													
Station 11+00	22											170	Storm Drain P-2
Station 12+00	12											5	Storm Drain P-3
Station 13+00	60											60	Storm Drain P-4
Station 14+00	16											5	Storm Drain P-5
Station 15+00	378											245	Storm Drain P-6
Station 16+00	12											0	Storm Drain P-7
Station 17+00	34											250	Storm Drain P-8
Station 18+00	25											20	Storm Drain P-9
Station 19+00	16											0	Storm Drain P-10
Station 20+00	35											0	Storm Drain P-11
Station 21+00	18											0	Post under new driveway 25' left of
Station 22+00		64								10	1	40	
Station 23+00		68								9		40	
Station 24+00				80						12		90	
Station 25+00		64								9		40	
Station 26+00				90						12		45	
Station 27+00		60								10		25	
Station 28+00		70								10		30	
Station 29+00		60								6	1	25	
Station 30+00		60								9		30	
Station 31+00				76						6	2	50	
WRANGELL EAST													
Station 32+00		70								5	2	30	
Station 33+00		64								7	1	30	
Station 34+00				84						13		115	
Station 35+00					66					4	2	75	
Station 36+00		66								8	2	35	
Station 37+00		72								11	2	35	
Station 38+00			84							10		55	
Station 39+00				84						16		70	
Station 40+00		68								7	1	45	
Station 41+00		84								11	1	45	
Station 42+00										14		115	
Station 43+00		64								10		30	
Station 44+00										1		15	See Headwall Details on Sheet No. 17
Station 45+00					140					34		0	
Station 46+00						104			1	28		25	See Headwall Details on Sheet No. 17
Station 47+00		72						1		8	1	45	End Section at Inlet
Station 48+00		62						1		6	1	40	End Section at Inlet
						605 (18)							
						8" Perf. Pipe Underdrain							
AIRPORT SPUR													
PCMP UNDERDRAIN													
See Table Sht. #16						220						34.5	60

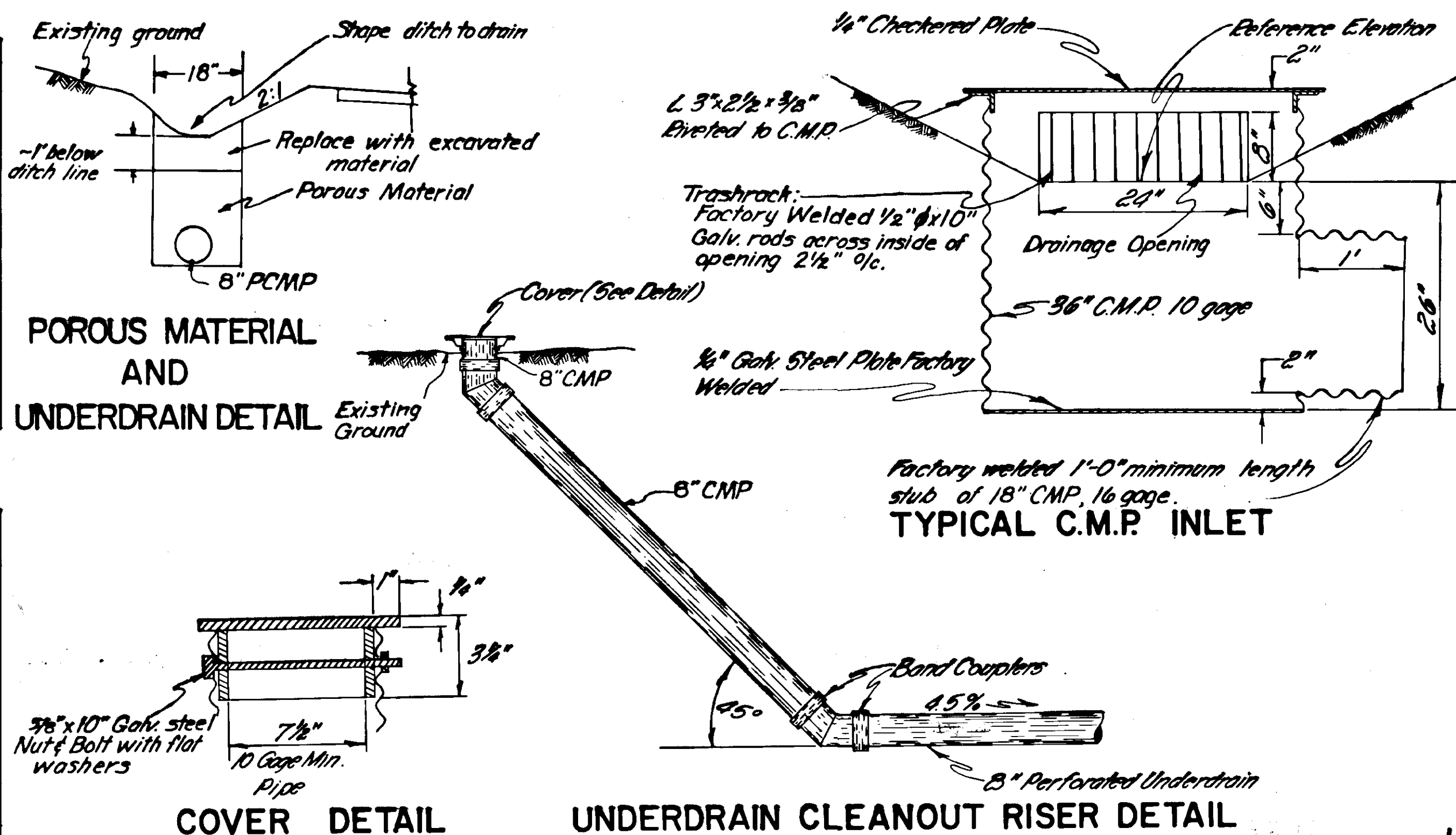
DRAINAGE STRUCTURE SUMMARY

INLET NO.	INLET TYPE	LOCATION		TOP OF CURB ELEVATION	INVERT ELEV.
		STATION	OFFSET		
S1	A	2H'46+59	27' Rt.	63.66	60.38
S2	CMP	0' 0+74	37' Lt.	N/A	69.90
S3	B	0' 0+61	36' Lt.	73.97	66.64
S4	CMP	0' 0+77	33' Rt.	N/A	70.00
S5	B	0' 0+88	20' Rt.	76.43	67.20
S6	A	1" 4+46	20' Rt.	103.77	98.97
S7	A	1" 4+46	20' Lt.	103.77	100.49
S8	A	1" 8+26	20' Rt.	115.65	110.33
S9	A	1" 8+26	20' Lt.	115.65	112.37
S10	A	1" 11+52	20' Rt.	116.50	111.37
S11	A	1" 11+52	20' Lt.	116.50	113.22

PIPE SUMMARY

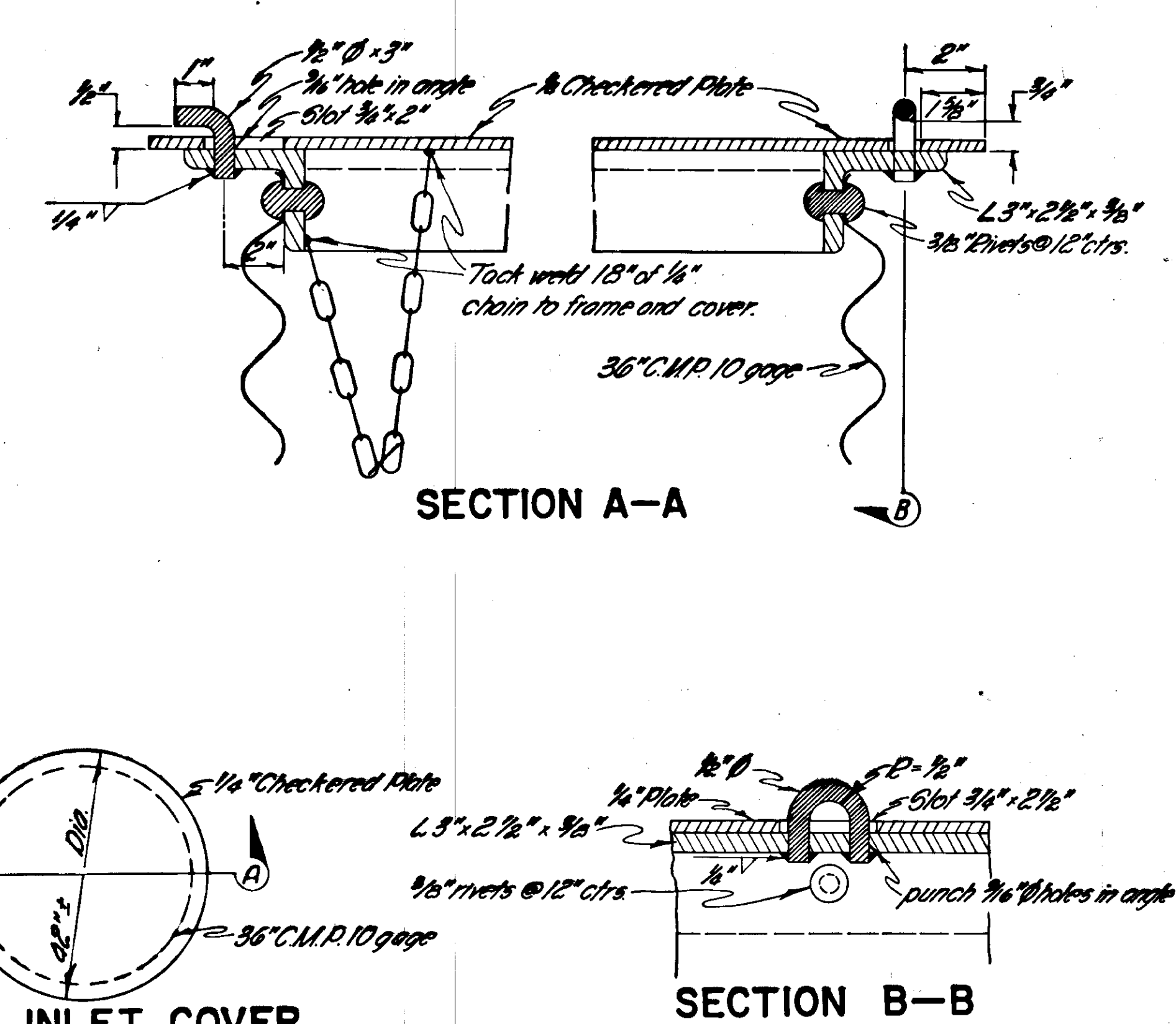
PIPE NO.	DESIGN LENGTH	FROM		TO	STRUCTURAL EXCAVATION
		STRUCTURE	INV. EL.		
P1*	220	Cleanout		60.00	60 C.Y.
P2	221	S3	66.64	60.38	170
P3	11	S2**	69.90		5
P4	60	S5	67.20		60
P5	16	S4**	70.00		5
P6	378	S6	98.97		245
P7	38	S7	100.49		0
P8	376	S8	110.33		250
P9	38	S9	112.37		20
P10	38	S11	113.22		0
P11	35	S10	111.37		0

*Paved area
 field placement of pipe.
 **CMP Inlet
 ***Slope P11 to discharge into existing drainage on south side of Center Ave.

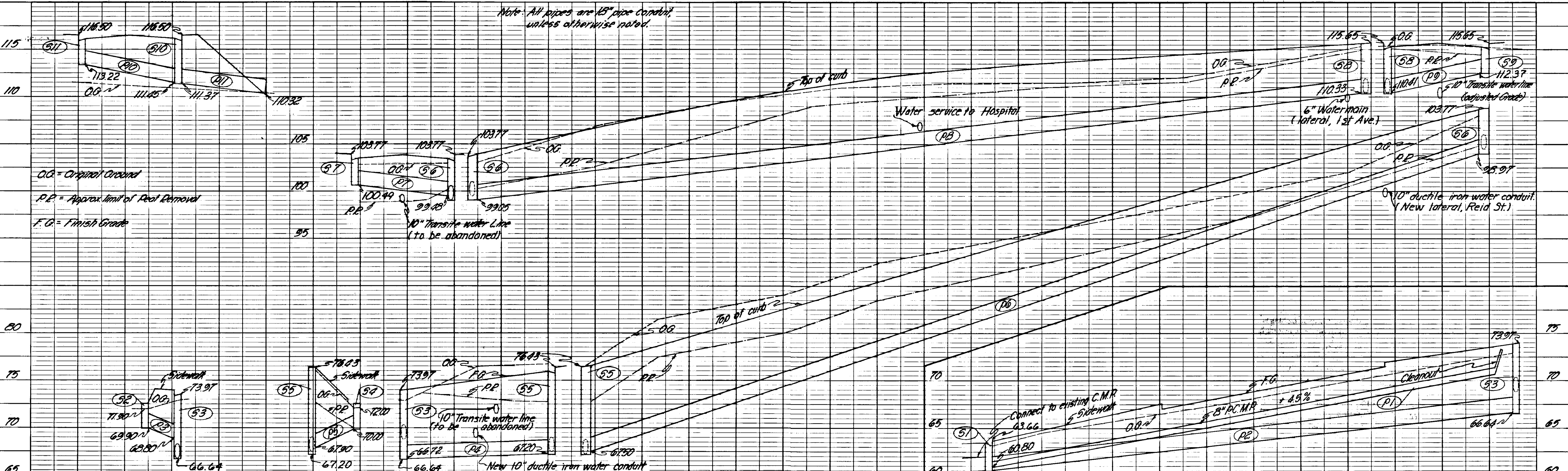


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ALASKA	S-0943(9)	1969	16	43

DRAINAGE DETAILS

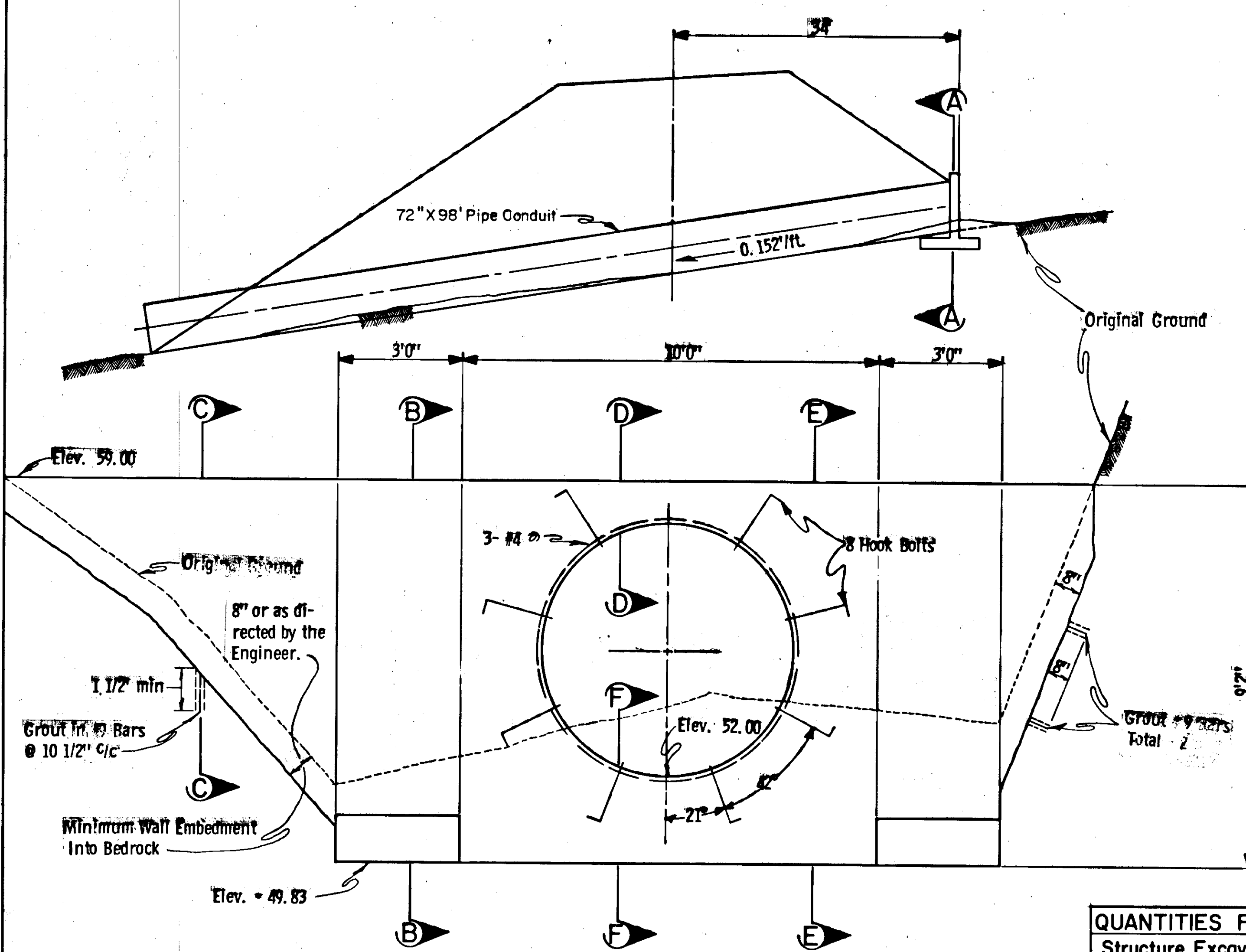


- NOTES:**
- Galvanize all covers, plates, and hardware on C.M.P. inlets and underdrain cleanout.
 - Porous material shall be considered incidental item 605 (18) and no separate payment shall be made therefor.

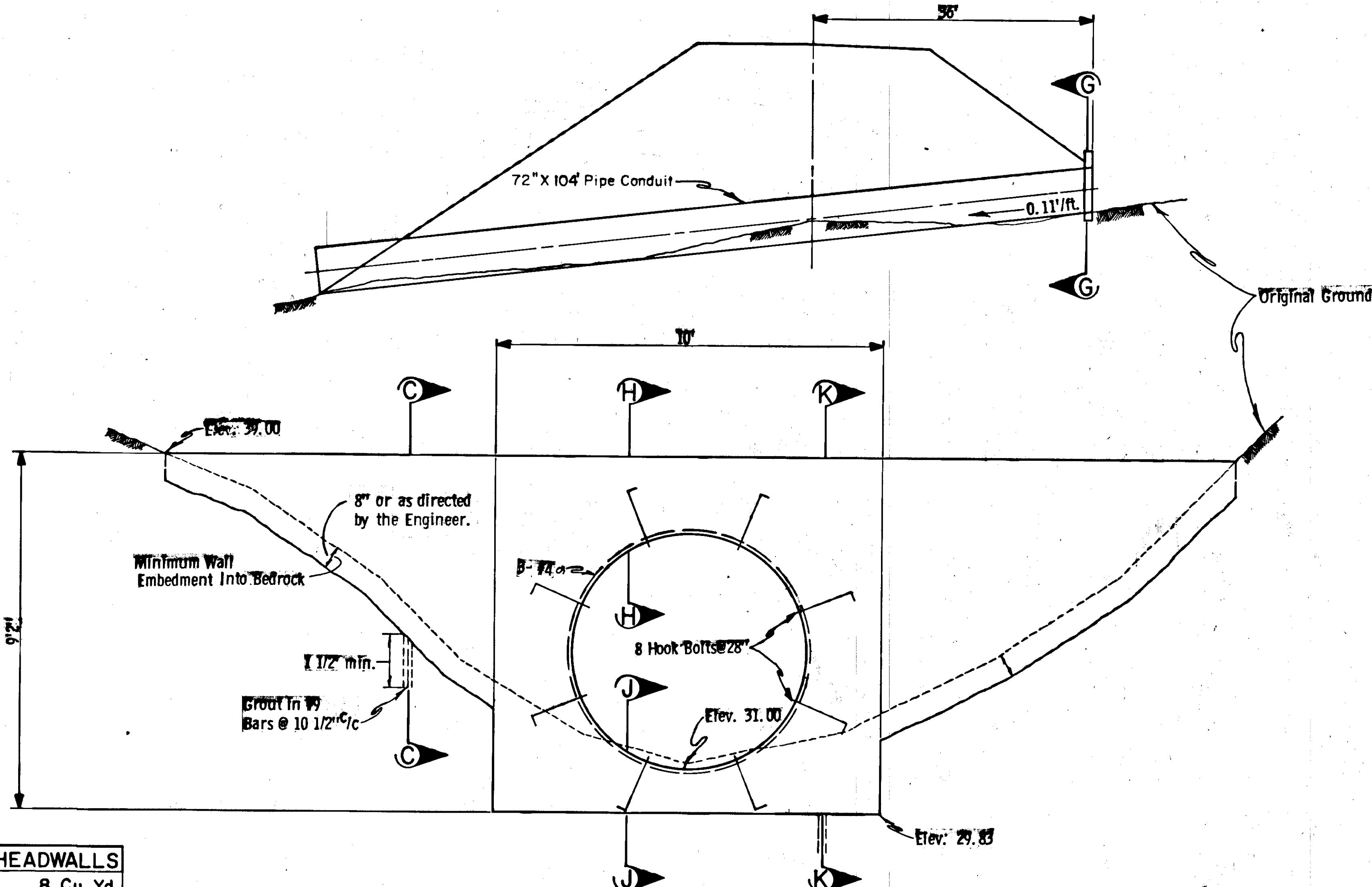


CULVERT HEADWALL DETAILS

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0943(9)	1969	17	43

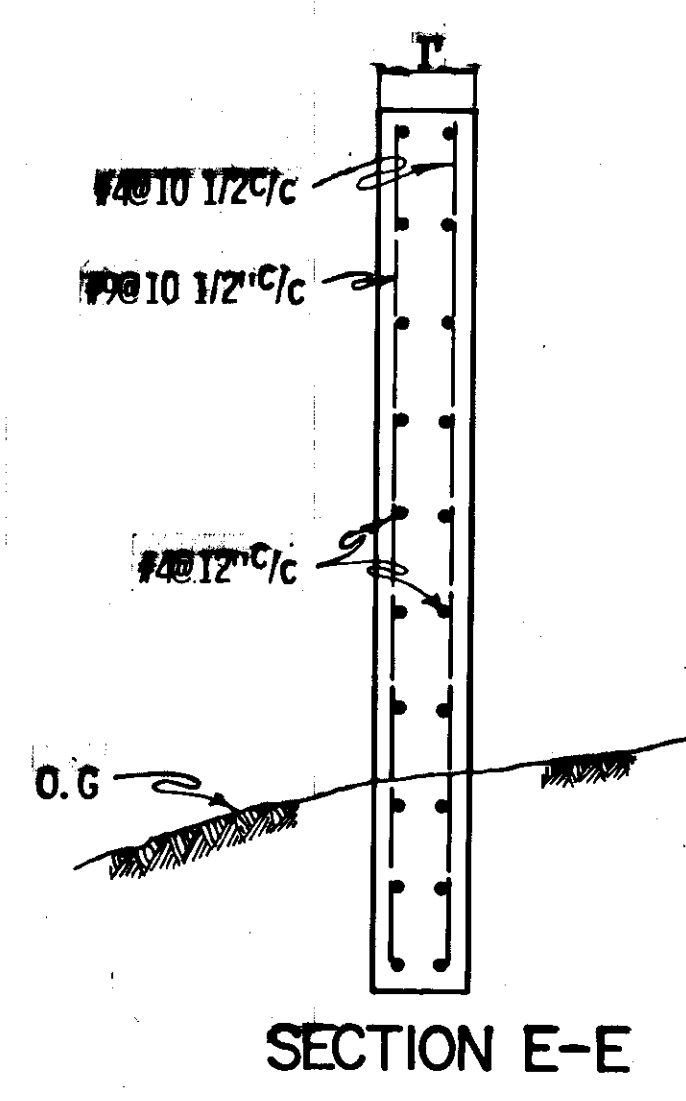


SECTION A-A
HEADWALL RT. "L" 88 + 08

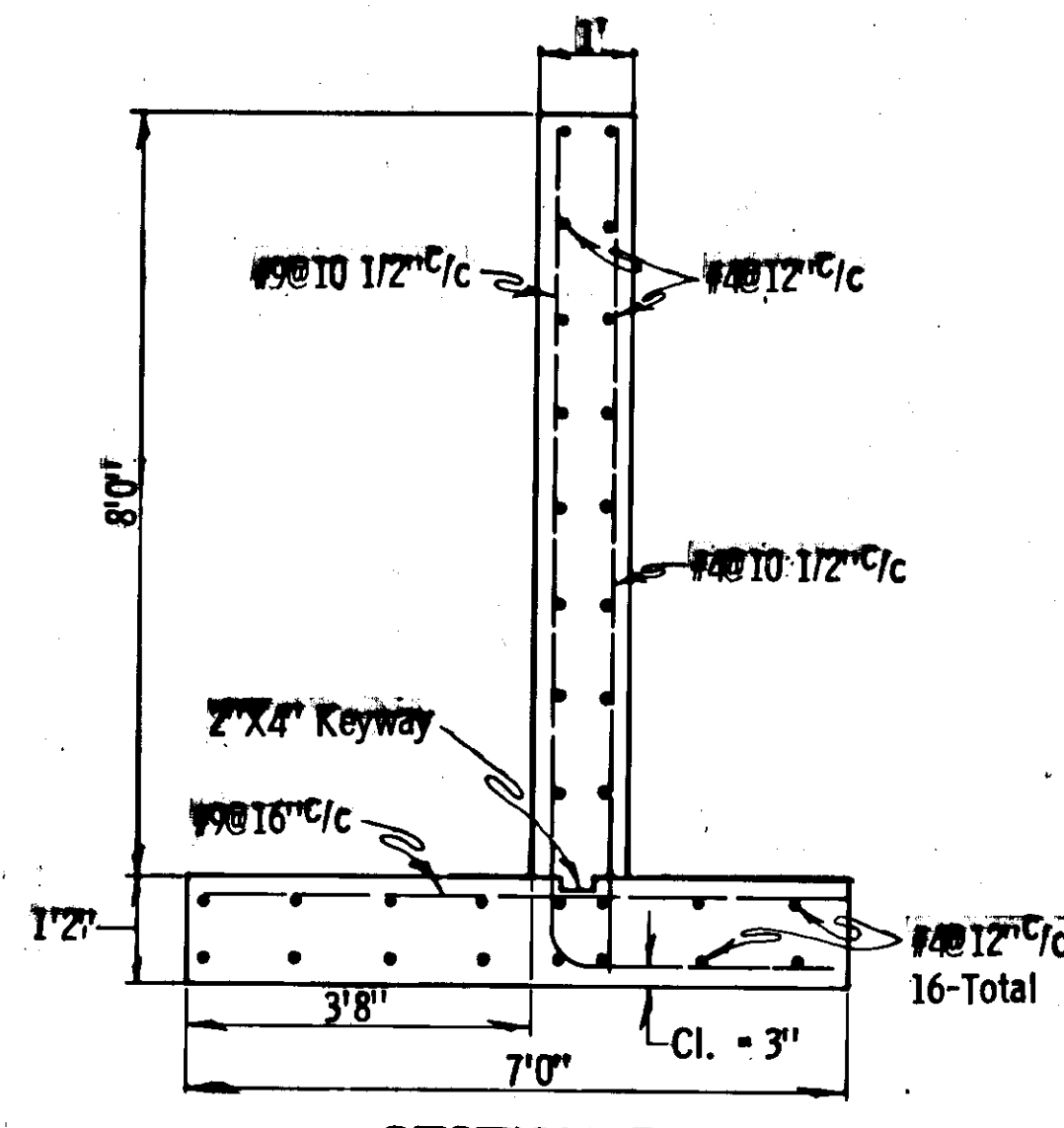


SECTION G-G
HEADWALL RT. "L" 100 + 78

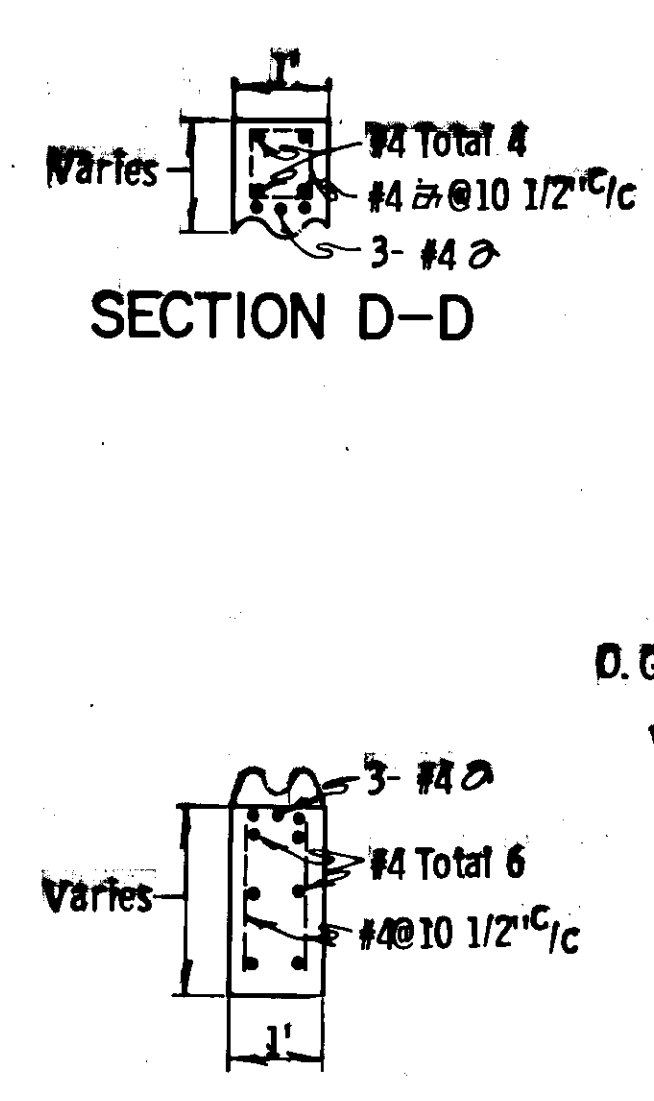
Structure Excavation	8 Cu. Yd.
Reinforcing Steel	1960 Lbs.
Class "A" Concrete	12.77 Cu. Yd.



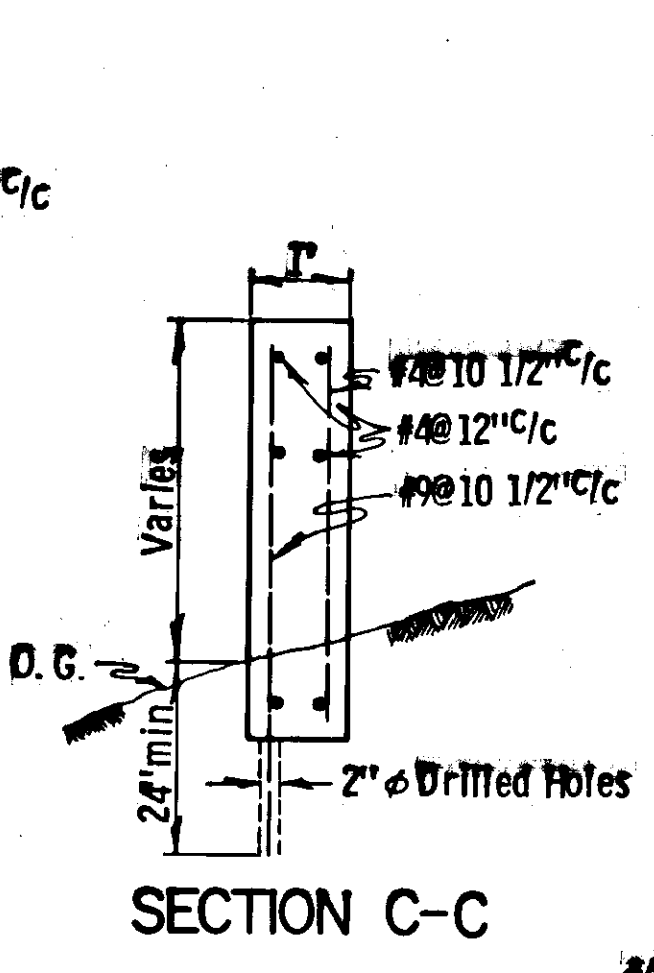
SECTION E-E



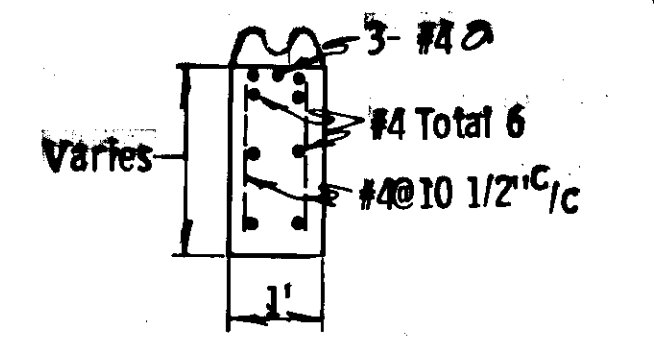
SECTION B-B



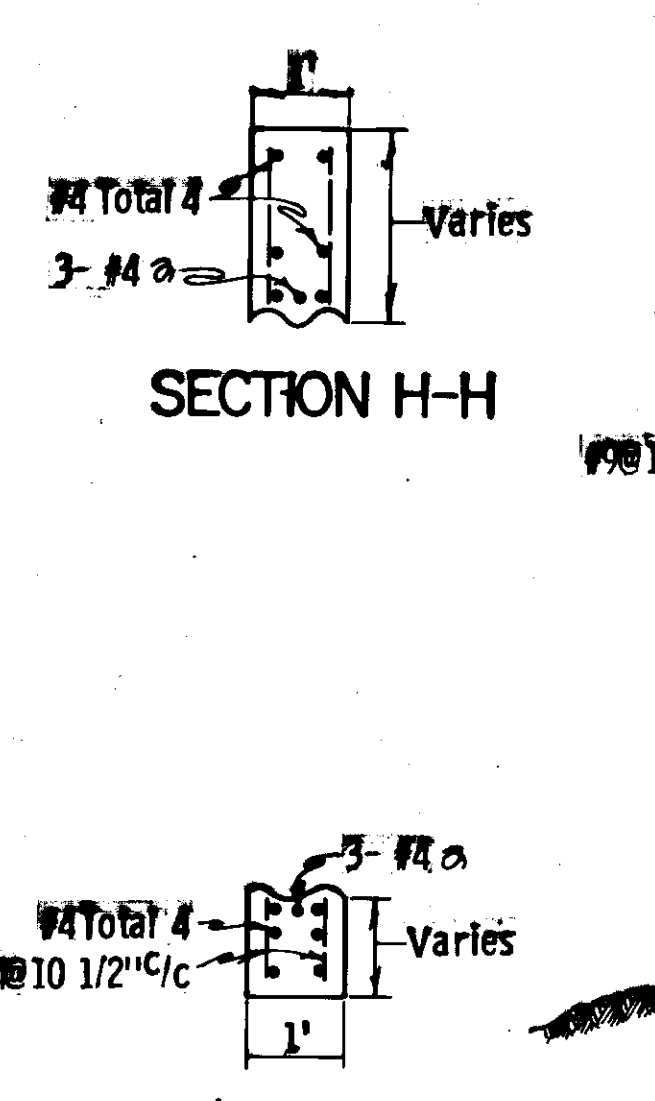
SECTION D-D



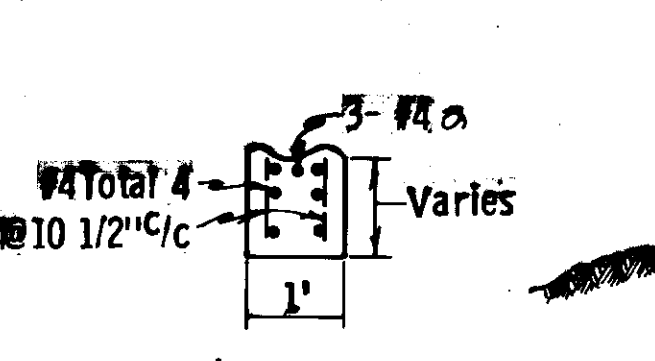
SECTION C-C



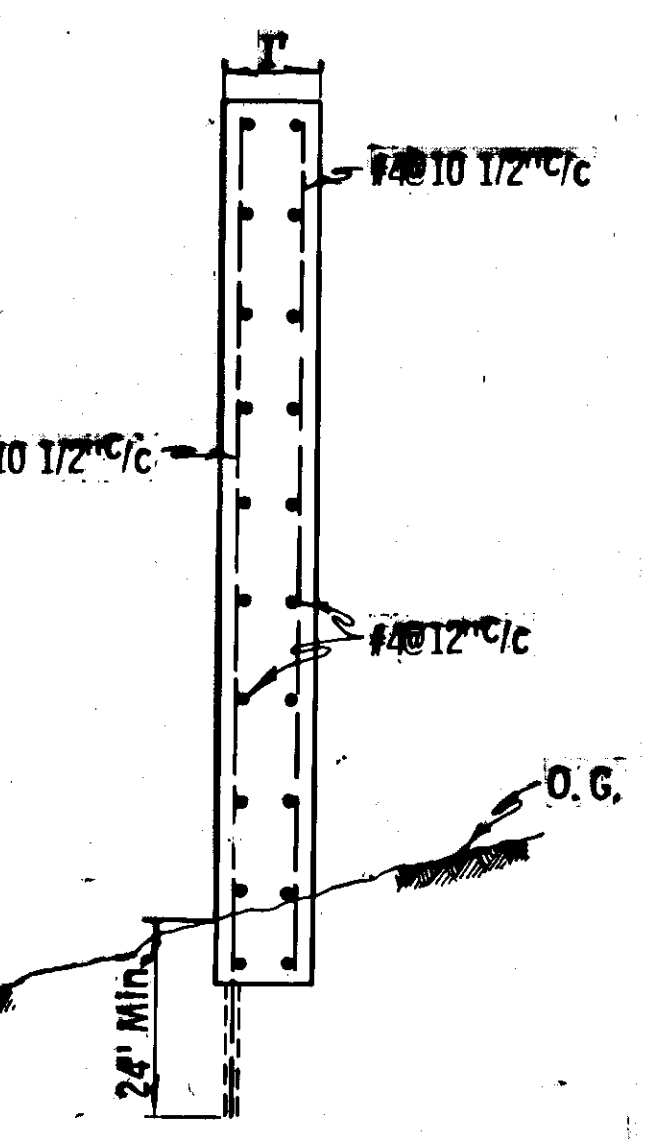
SECTION F-F



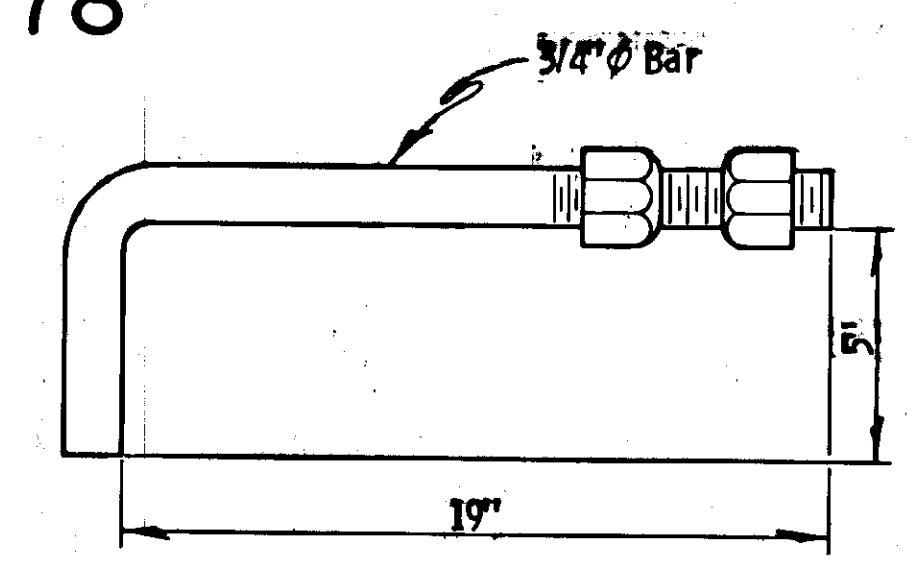
SECTION H-H



SECTION J-J



SECTION K-K



HOOK BOLT DETAIL

- NOTES:
- Hook bolts shall be of the same material as the culvert bolts, and shall be galvanized. Hook bolt installation shall be considered incidental to other items of work performed under this contract.
 - Clear distance from reinforcing steel to face of concrete shall be 2" unless otherwise noted.

**SPECIAL STANDARD
SIGN DETAILS**

LEGEND

SPACING

5 INCH SERIES D - CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

Letter	R	O	A	D	E	N	D	S
Letter Width	336	350	419	336	305	336	336	336
Space Width	094	094	094	094	094	117	094	094
Cumulative Width	336	430	780	874	1293	1387	1723	

5 INCH SERIES D - CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

Letter	T	O	O	F	T
Letter Width	336	350	350	305	305
Space Width	094	094	225	062	
Cumulative Width	336	430	780	874	1224

5 INCH SERIES C - CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

Letter	W	R	A	N	G	E	L	L
Letter Width	375	273	312	273	273	250	250	250
Space Width	084	084	084	105	105	084	084	
Cumulative Width	375	459	732	816	1128	1212	1485	1590

3 INCH SERIES C - CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

Letter	C	I	T	Y	L	I	M	I	T
Letter Width	165	042	150	188	150	042	195	042	150
Space Width	050	050	018	450	050	063	063	050	
Cumulative Width	165	215	257	307	457	475	663	1113	1263

--- INCH SERIES --- CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

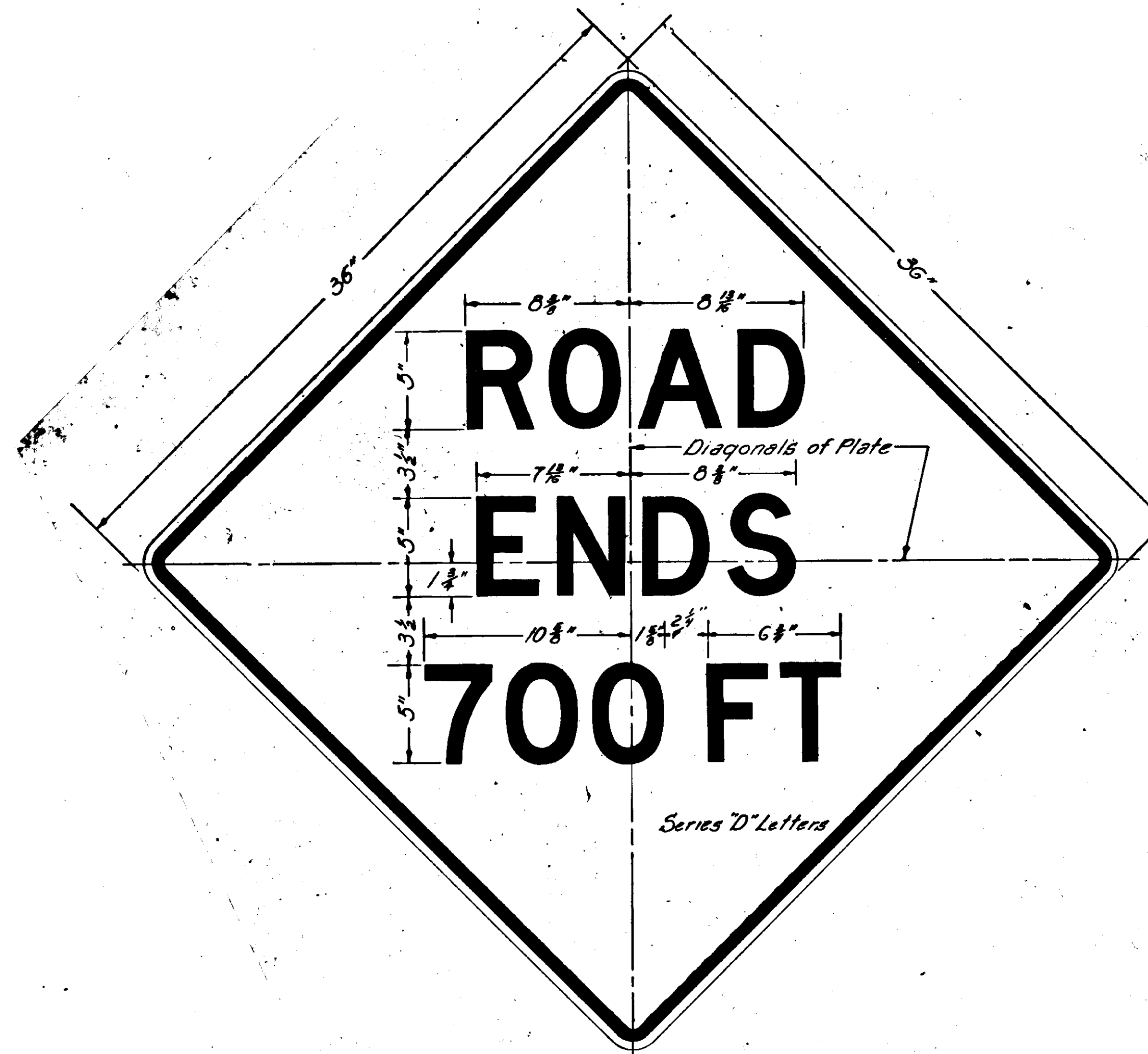
Letter								
Letter Width								
Space Width								
Cumulative Width								

--- INCH SERIES --- CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

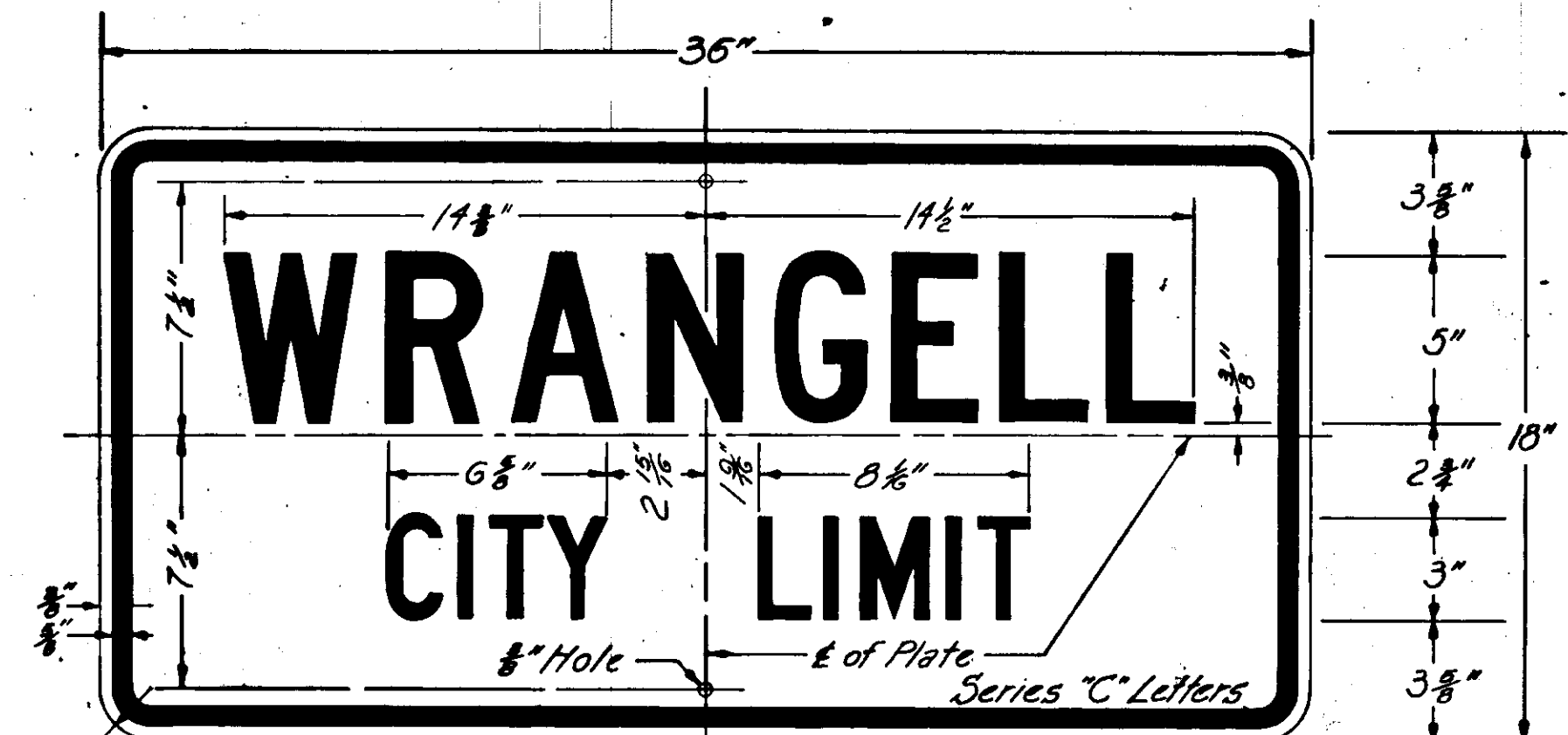
Letter								
Letter Width								
Space Width								
Cumulative Width								

--- INCH SERIES --- CAPITALS; --- INCH LOWER CASE (--- INCH LOOP HEIGHT)

Letter								
Letter Width								
Space Width								
Cumulative Width								



Black legend & border on yellow background
WB-10



Black legend & border on white reflectorized background
D5-1

**SPECIAL STANDARD
SIGN DETAILS**

6 INCH, SERIES "E" CAPITALS ----- INCH, LOWER CASE

Letter	A	I	P	R	O	T
Letter Width	9.00	6.00	1.03	4.78	4.78	4.97
Space Width	2.00	1.24	1.55	1.55	1.24	1.55
Cumulative Width	9.00	11.00	17.00	18.24	19.27	20.82

6 INCH, SERIES "E" CAPITALS ----- INCH, LOWER CASE

Letter	A	I	P	R	O	T
Letter Width	6.00	1.03	4.78	4.78	4.97	4.78
Space Width	1.24	1.55	1.55	1.24	1.55	1.24
Cumulative Width	6.00	7.24	8.27	9.82	14.60	16.15

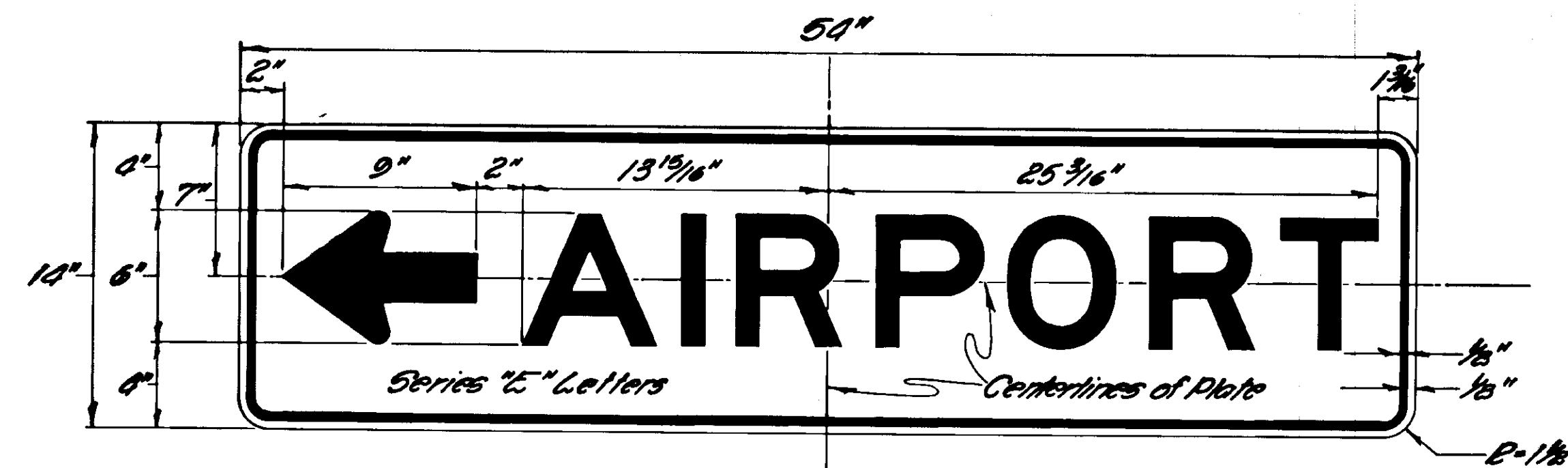
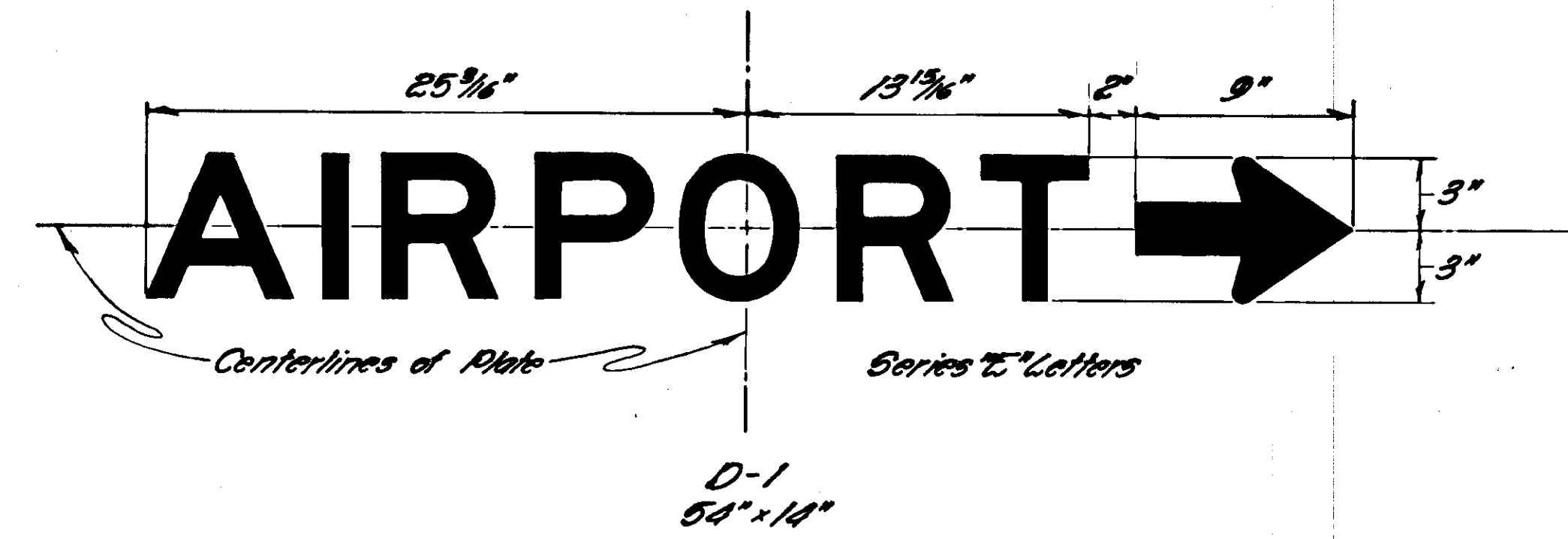


PLATE DETAIL
D-1
54" x 14"

Note: ReflectORIZED White Legend and Border on
ReflectORIZED Green Background.



D-1
54" x 14"

Missing pages 19 and 21-43.