

ALASKA	21	1	1958	1	55
ROUTE	110000	M.P. 6.3-21.4			

NO. F-021-1(1)
STERLING HIGHWAY
HOMER TO ANCHOR POINT
GRADING & DRAINAGE
"AS BUILT"

PROJECT NO. F-021-1(1)

1	TITLE SHEET
2	BORROW PIT LOCATION SKETCH AND TABLE OF STRIPPING DEPTH
3	ESTIMATE & TYPICAL SECTION
4	CULVERT PLAN
5-32	PLAN AND PROFILE
33-36	BRIDGE PLANS
37-38	STD. I-BEAM, DRAWING B-3-58
39	STD. HANDRAILS, DRAWING H-1-58
40-50	CULVERT & MISCELLANEOUS WORK
51	STANDARD CULVERTS
52	STANDARD SIGNS
53	STANDARD BARRICADE
54	STD. PROJECT IDENTIFICATION SIGN
55	STANDARD APPROACHES

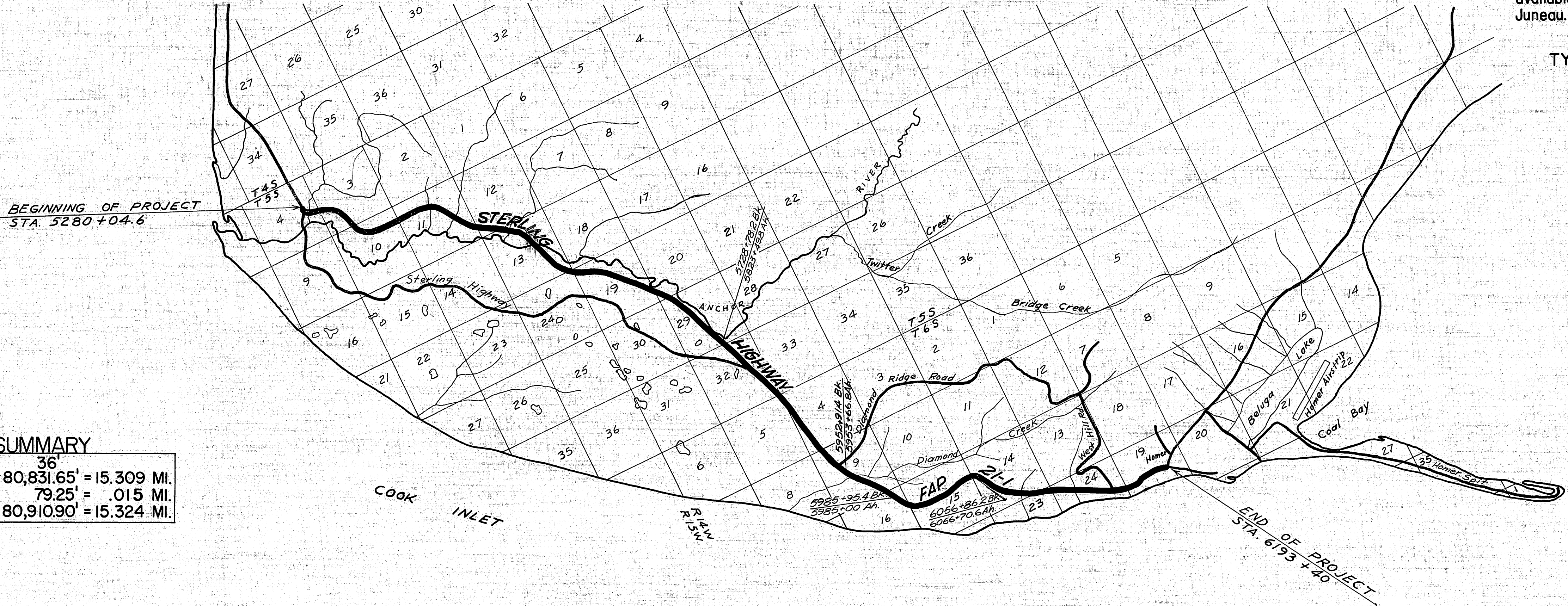
Field reports of the foundation soils and the type of materials found in the listed pits for this project are available for inspection in the Bureau of Public Roads Division office at Anchorage and the Regional office at Juneau.

Detail Cross Sections for this project are available for inspection in the Regional office at Juneau.

TYPE 0011 IMPROVEMENT

KACHEMAK

PROJECT SUMMARY	
WIDTH OF SUBGRADE	36'
LENGTH OF GRADING	80,831.65' = 15.309 MI.
LENGTH OF BRIDGE	79.25' = .015 MI.
LENGTH OF PROJECT	80,910.90' = 15.324 MI.



APPROVED
E.H. Litch
REGIONAL ENGINEER
BUREAU OF PUBLIC ROADS
REGION 10
Date: 7/29/58

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	2	55

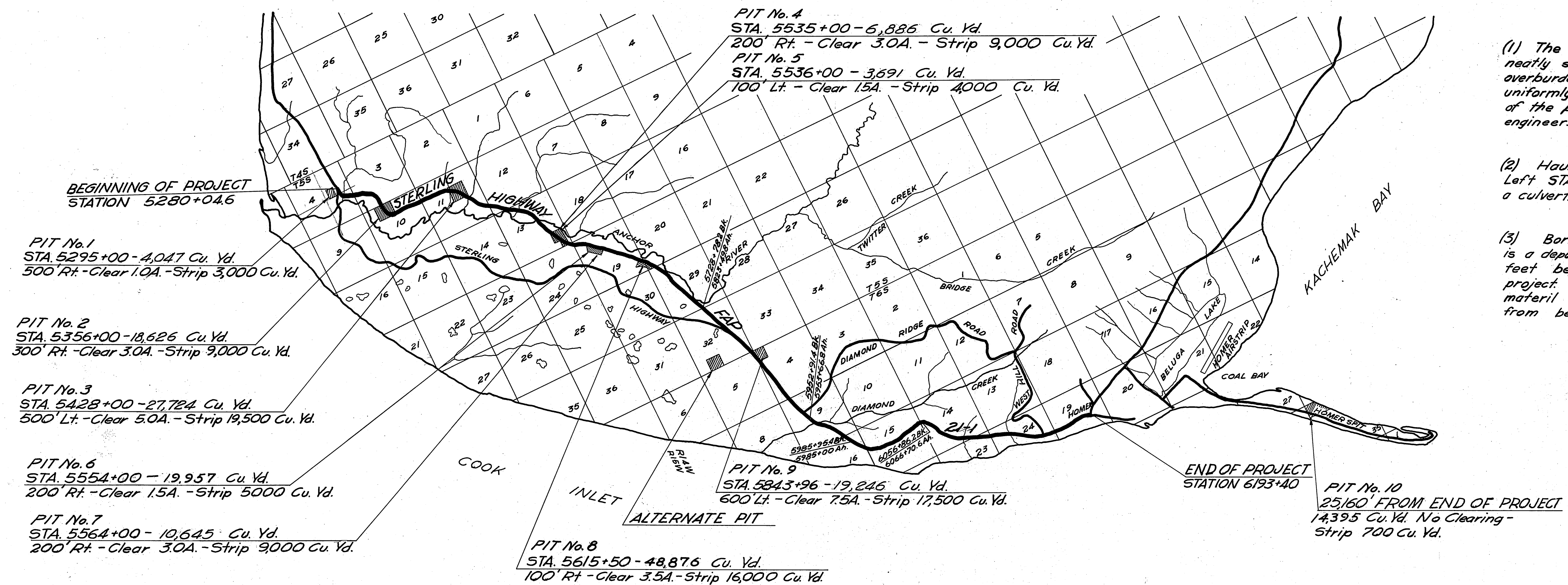
AS BUILT

TABLE OF STRIPPING DEPTHS

STATION	TO	STATION	DEPTH
5280+00	↪	5304+50	0.0'
5304+50	↪	5430+00	1.0'
5430+00	↪	5519+00	0.0'
5519+00	↪	5560+00	1.0'
5560+00	↪	5583+00	0.0'
5583+00	↪	5610+57	1.0'
5610+57	↪	5621+00	2.0'
5621+00	↪	5625+50	1.0'
5625+50	↪	5667+00	0.0'
5667+00	↪	5688+50	1.0'
5688+50	↪	5938+00	0.0'
5938+00	↪	5950+00	1.0'
5950+00	↪	6196+00	0.0'

BORROW PIT LOCATION SKETCH

ALL PITS SHOWN ON THIS SKETCH ARE LISTED SOURCES



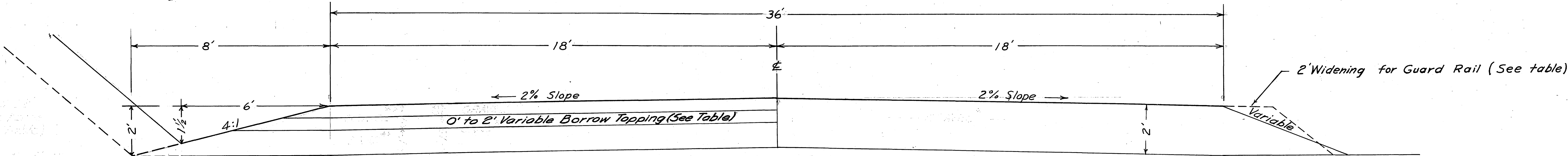
NOTES

- (1) The sides of all pits shall be neatly sloped and trimmed, and overburden or stripping spread uniformly on the bottoms and slopes of the pits as directed by the engineer.
- (2) Haul road to borrow source Left STATION 5343+96 will require a culvert;
- (3) Borrow source on Homer Spit is a deposit of beach gravel, 25,160 feet beyond the end of the project. The bulk of the borrow material will have to be removed from below water level.

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	3	5.5

AS BUILT

Cut and Fill Slopes
Variable Between 1½:1 and 4:1



GENERAL NOTES

- Approaches shall be constructed to all existing side roads.
- See top of Profile on plan and Profile sheets for grading and quantities.
- Curves shall be superelevated as staked by the engineer.
- Lengths of Culverts are approximate only and are subject to minor revisions.

TYPICAL SECTION OF IMPROVEMENT

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
Grading & Drainage Items			
100(3)	200	Acres	Clearing & grubbing
100(4)	30	Acres	Pit clearing & grubbing
102(1)	816,000	Cu. Yds.	Unclassified excavation
102(4)	180,000	Cu. Yds.	Borrow excavation, Case I
102(8)	23,000	Cu. Yds.	Stripping borrow pits, Case I
103(1)	6,800	Cu. Yds.	Excavation for structures
105(2)	81,500	Yd. Mi.	Overhaul (2000' freehaul)
105(3)	238,500	Yd. Mi.	Overhaul of Borrow, Case I (1000' freehaul)
453(2D)	1196	Lin. Ft.	15" bituminous-coated corrugated metal pipe
453(2E)	802	Lin. Ft.	18" bituminous-coated corrugated metal pipe
453(2F)	3858	Lin. Ft.	24" bituminous-coated corrugated metal pipe
453(2I)	1656	Lin. Ft.	36" bituminous-coated corrugated metal pipe
453(2K)	302	Lin. Ft.	48" bituminous-coated corrugated metal pipe
455(4G)	910	Lin. Ft.	Bituminous-coated, Structural-plate pipe, 96" diameter, 8 gage
457(1)	1,846	Lin. Ft.	Remove & dispose of existing culvert
		Lump Sum	Baycrest water service relocation
Bridge Items			
103(2)	40	Cu. Yds.	Excavation for structures, Bridges
400(3)	940	Lin. Ft.	Structural Steel Piles, 10BPA2, Furnished
400(12)	24	each	Structural Steel Piles, 10BPA2, Driven
400(23)	3	each	Splices
406(1)	93.7	Cu. Yds.	Class "A" Concrete
407(1)	17,975	Lbs.	Reinforcement Steel, Intermediate Grade
420(1A)	8,680	Lbs.	Structural Steel, A-373, Furn., Fabricated & erected
420(2)	66,685	Lbs.	Structural Steel, A-242, Furn., Fabricated & erected
422(5)	244.5	Lin. Ft.	Beam Type Bridge Railing
430(2)	5,060	MBM	Treated Timber, Creosote Preservative
511(2)	1,309	Sq. Yd.	Landing Mat
560(4)	4	each	Guideposts

TABLE OF UNIFORM BORROW TOPPING THICKNESS

STATION TO	STATION	SAND	GRAVEL
5280+046	5292+00	0.0	1.0'
5292+00	5317+00	0.0	0.0
5317+00	5423+00	0.0	1.5'
5423+00	5438+00	0.0	1.0'
5438+00	5500+00	0.0	1.5'
5500+00	5533+00	1.0'	0.5'
5533+00	5540+00	0.0	0.0'
5540+00	5546+00	0.5'	1.0'
5546+00	5551+00	0.5'	1.0'
5551+00	5559+00	0.5'	1.0'
5559+00	5594+84	1.0'	0.5'
5594+84	5611+00	0.0'	0.0'
5611+00	5628+98	0.5'	1.0'
5628+98	5644+97	0.0'	0.0'
5644+97	5682+00	0.5'	1.0'
5682+00	5951+00	1.0'	0.5'
5951+00	5965+00	1.0'	1.0'
5965+00	6132+00	1.0'	0.5'
6132+00	6193+40	1.0'	1.0'

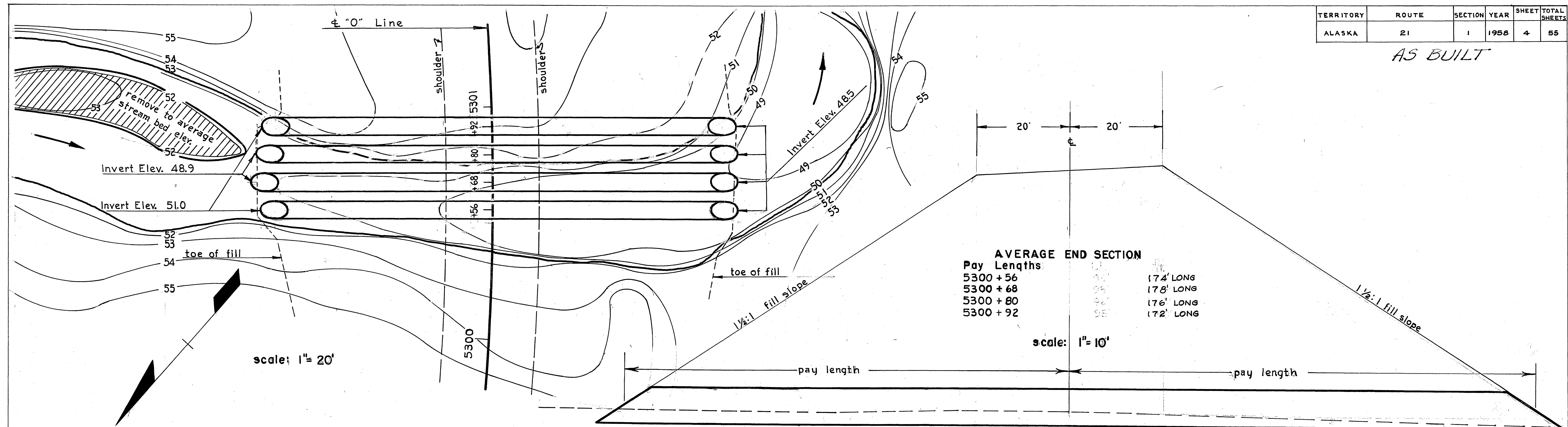
DITCH AND WIDENING TABLE

Station to	Station	2' Ditch	2' Widening For Guard Rail
5298+00	5304+00		✓
5904+00	5970+50	✓	
6025+00	6037+50	✓	
6038+00	6044+50		✓
6052+50	6069+00		✓
6075+00	6077+00		✓
6080+00	6193+40	✓	

All ditches not shown in table are 1.5'

TERRITORY	ROUTE	SECTION	YEAR	SHEET	TOTAL SHEETS
ALASKA	21	1	1958	4	55

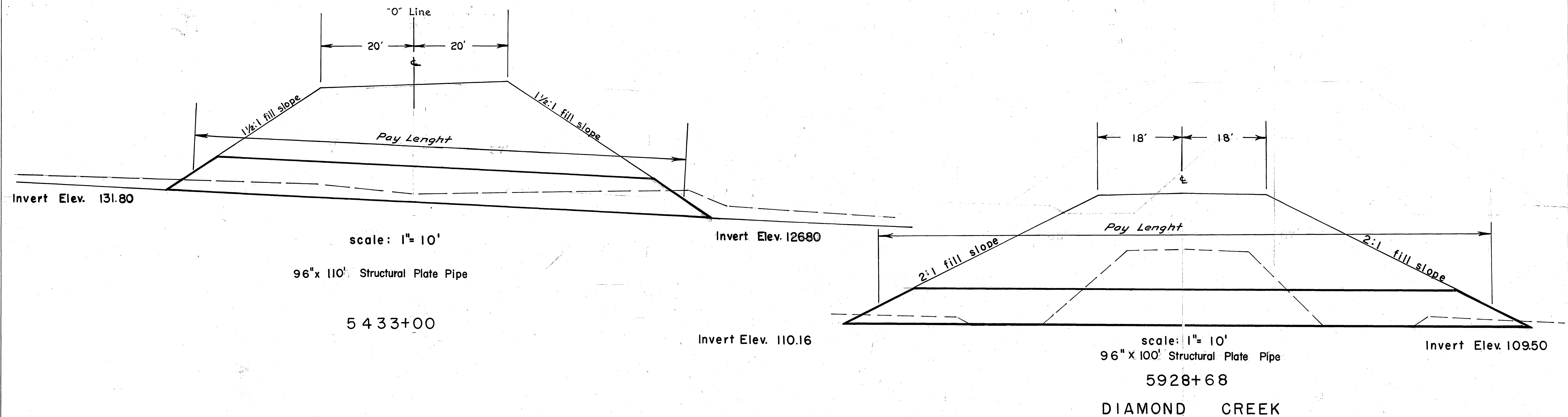
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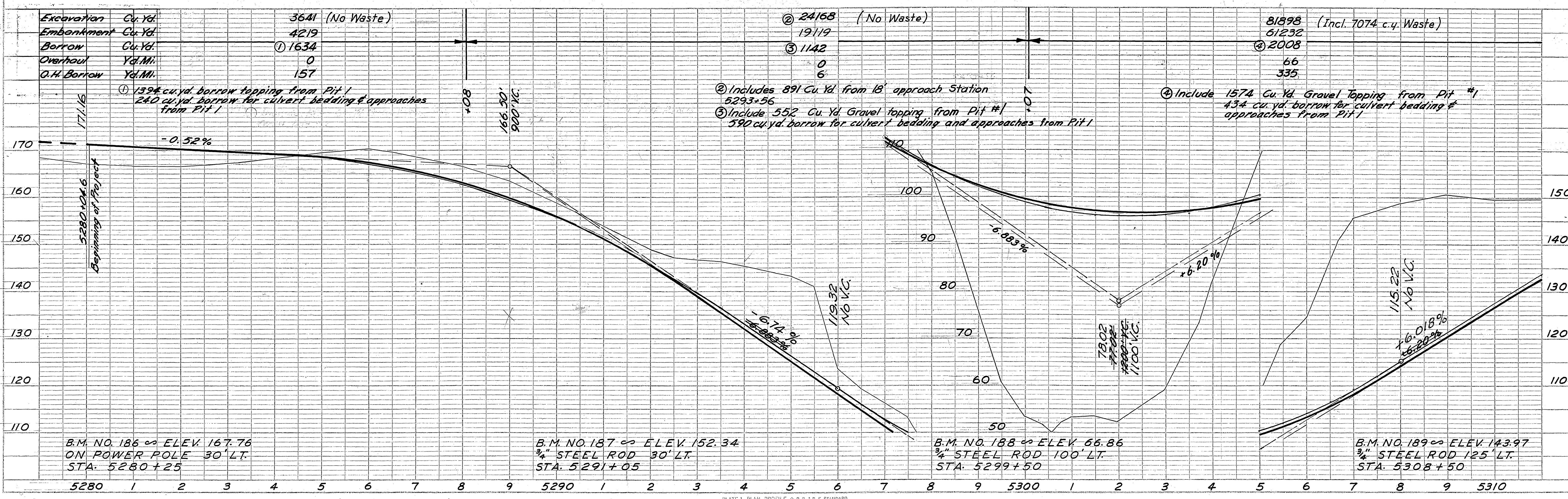
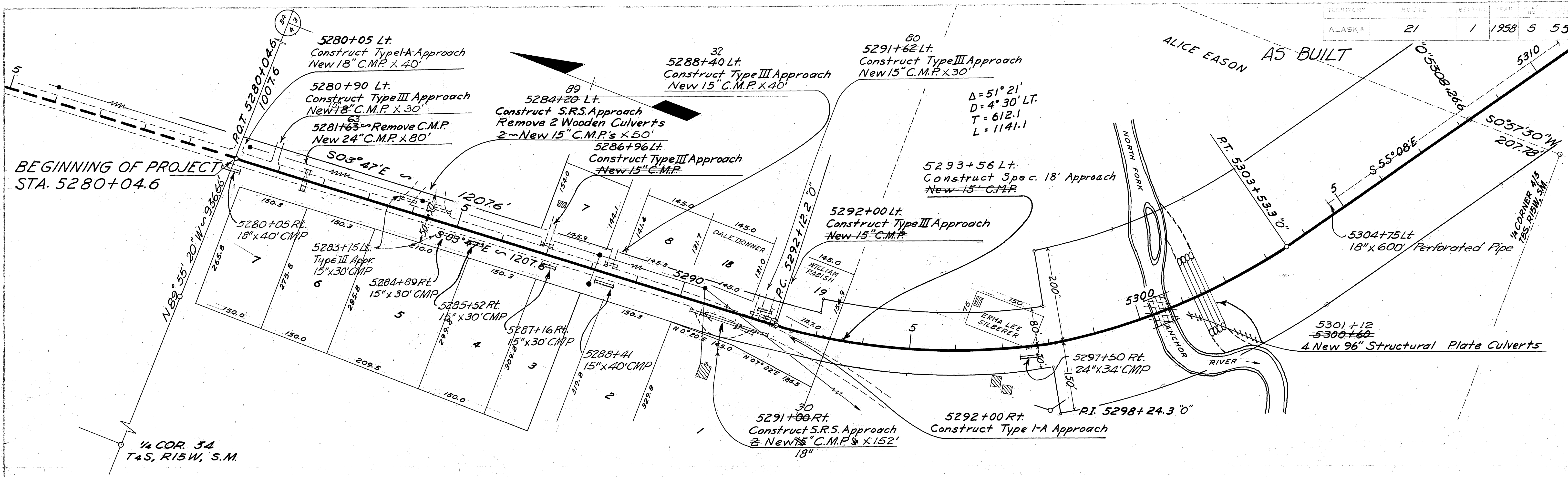
install 4- 96" Structural Plate Pipe

NORTH FORK, ANCHOR RIVER

NOTE:
Ends of all structural plate pipes
shall be beveled same as fill slopes.



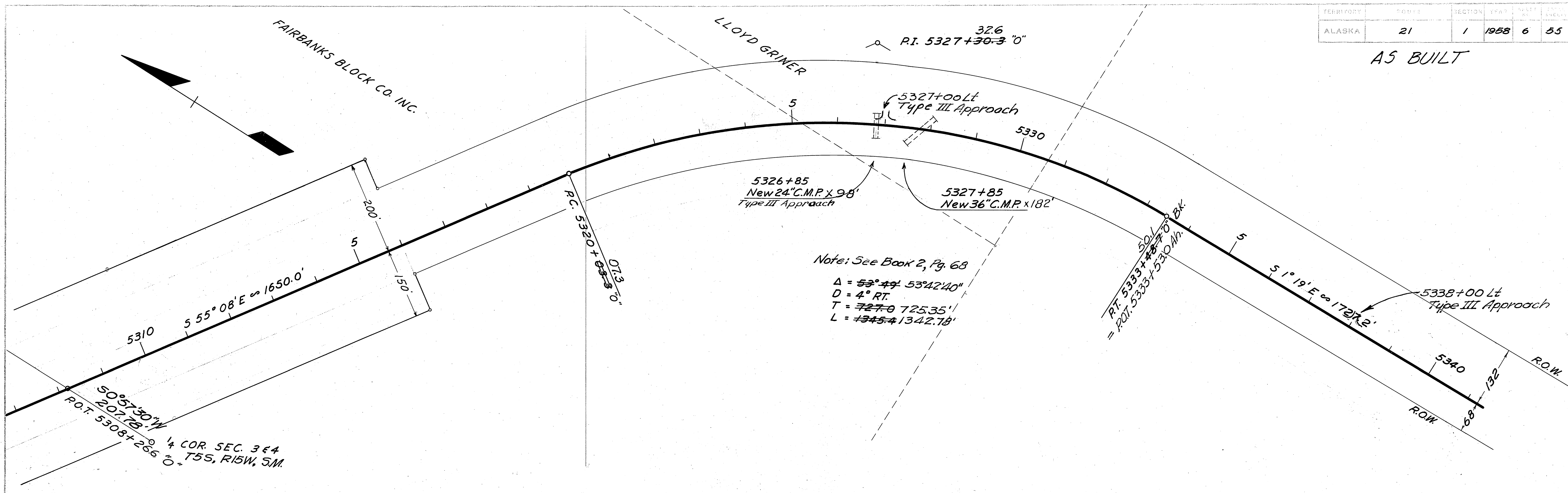
Left
A-4



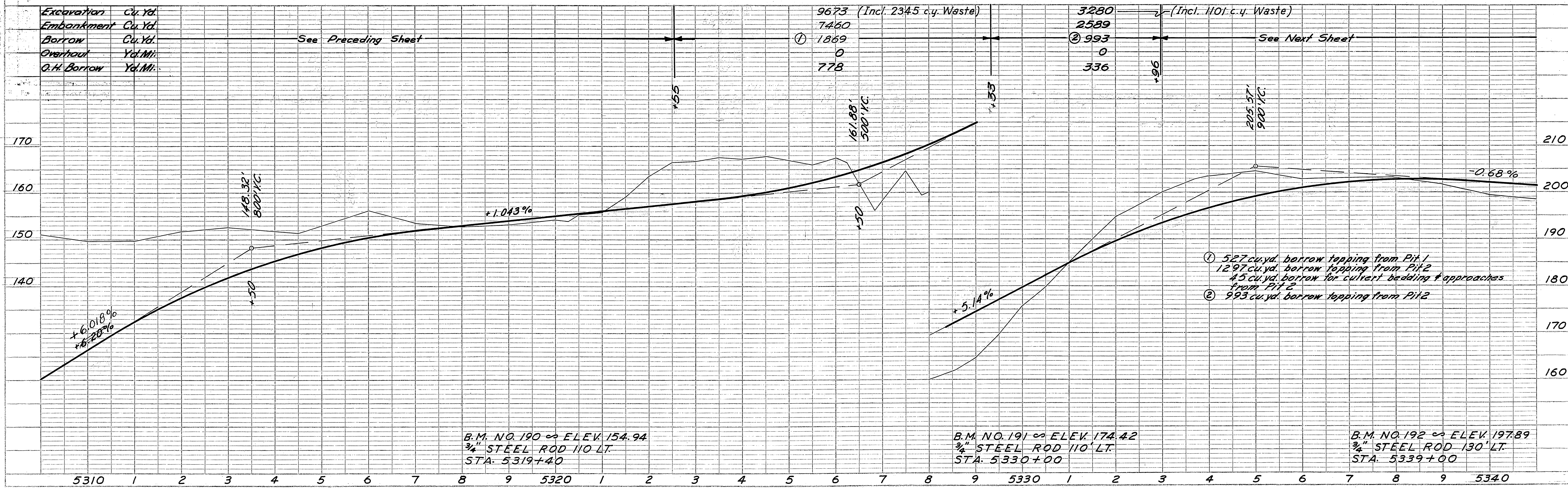
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ALASKA	21	1	1958	6	55

A5 BUILT

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NOTE BOOK	ALIGNED CHECKED	
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U.S. GEOLOGICAL SURVEY		BY		DATE
PROFILE	SURVEYED			
	PLOTTED			
NOTE BOOK	GRADES CHECKED			
	B. M'S NOTED			
N.C.	STRUCTURE NOTATIONS CHECKED			



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PROFILE	SURVEYED	DATE
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NOTE BOOK	GRADES CHECKED	
	STRUCTURE NOTATIONS CH'KD	
NO.		

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	7	55

A5 BUILT

LOUIS FRANK KRAINOCK

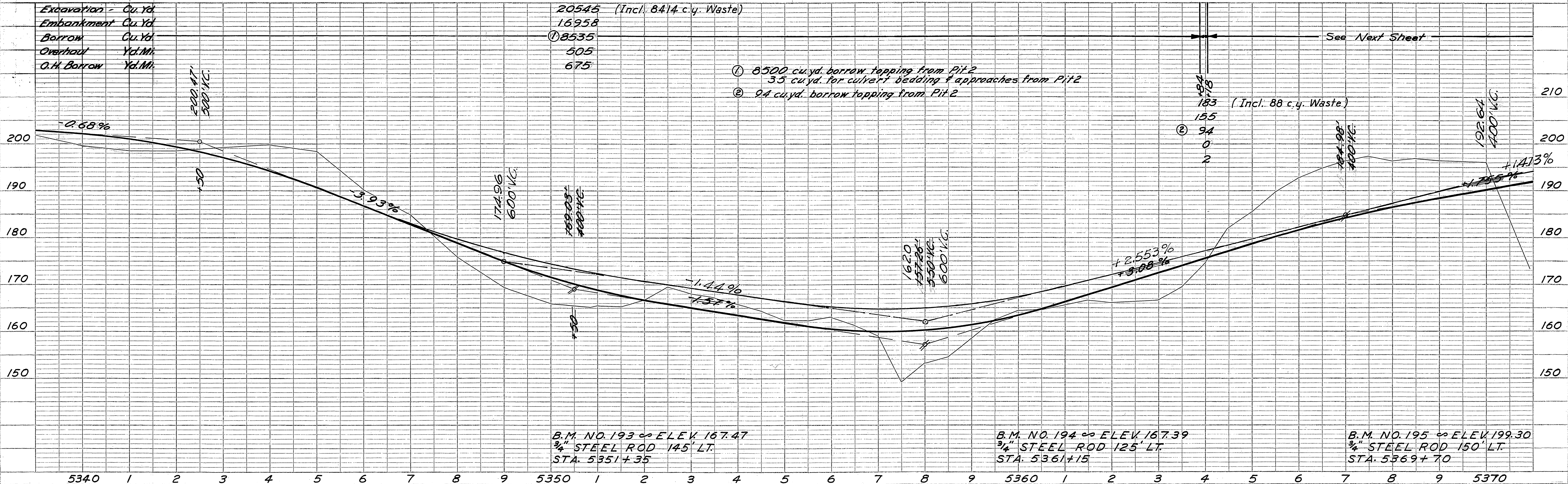
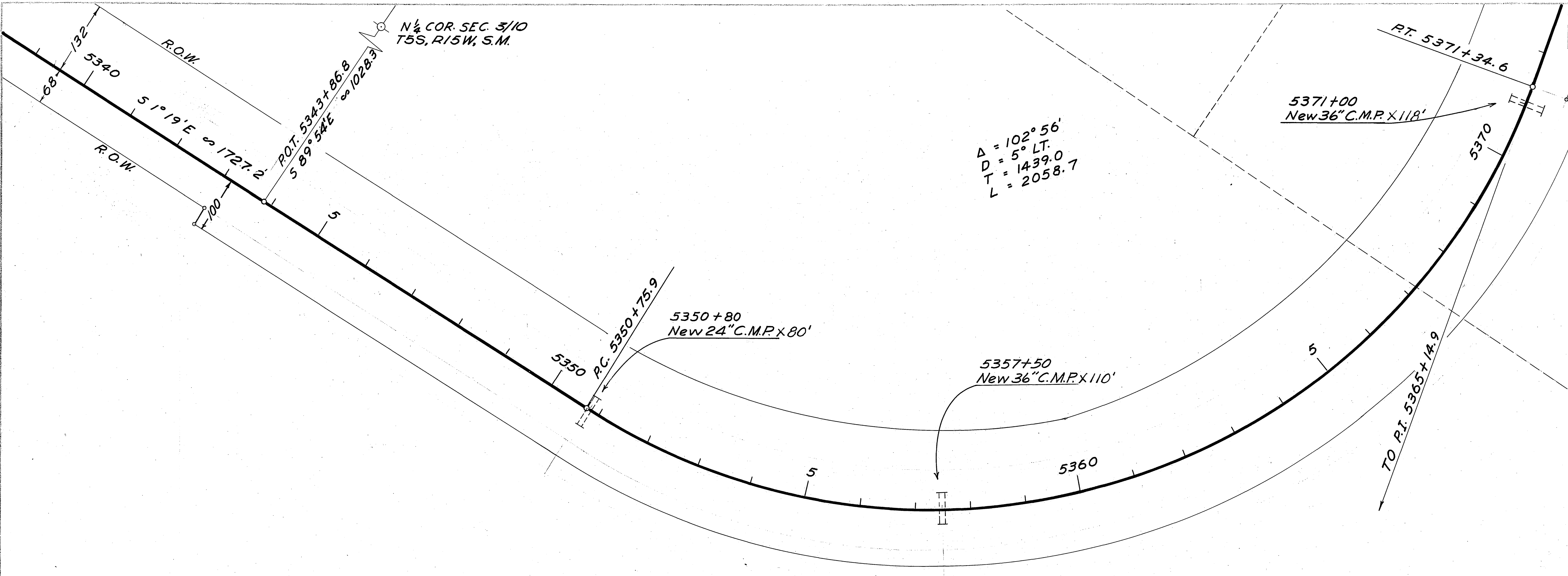


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KRIFFEL & ESSER CO., NEW YORK

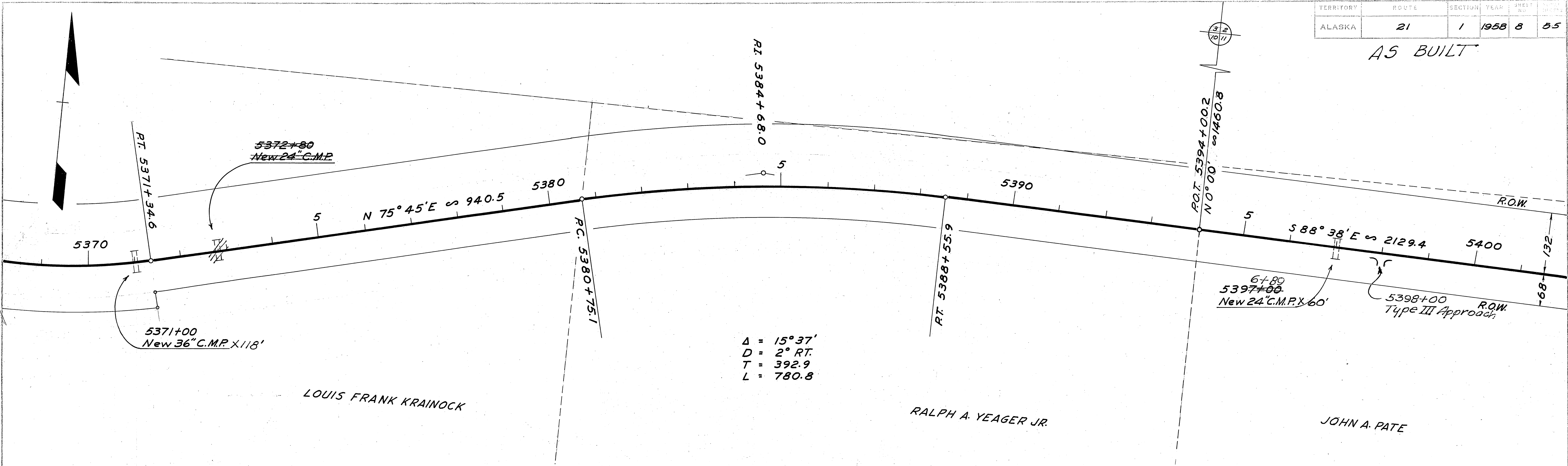
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UNIVERSITY MICROFILMS
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GRADES CHECKED				
STRUCTURE NOTATIONS CHKD.				

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	8	55

AS BUILT



$\Delta = 15^{\circ} 37'$
 $D = 2^{\circ} \text{ RT.}$
 $T = 392.9$
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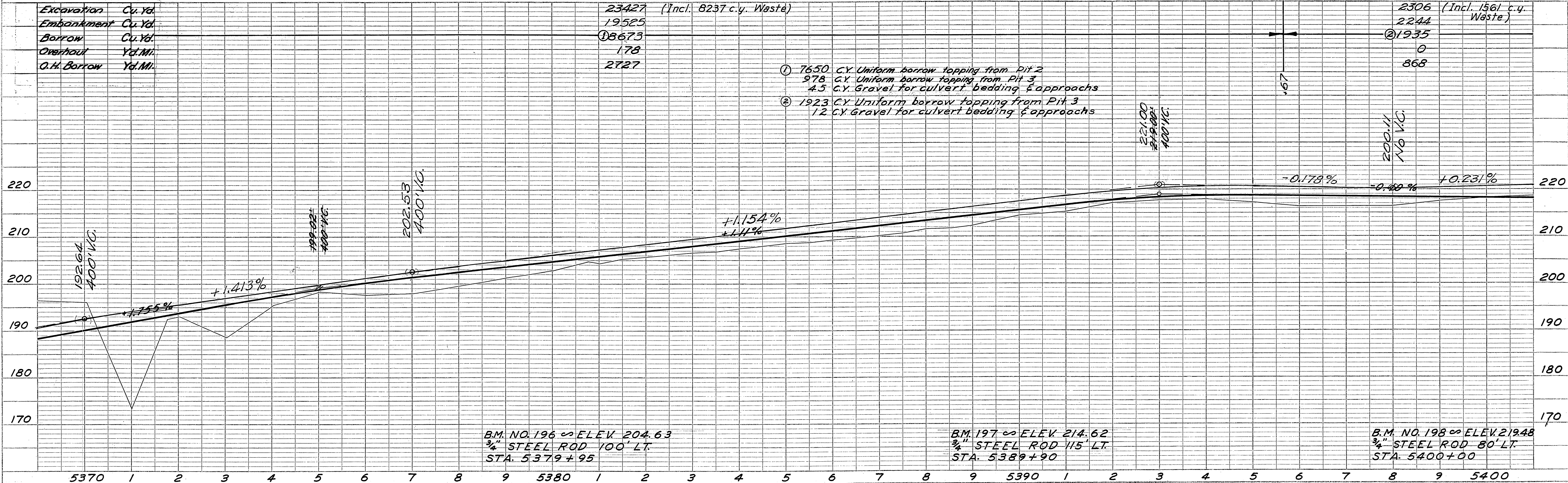


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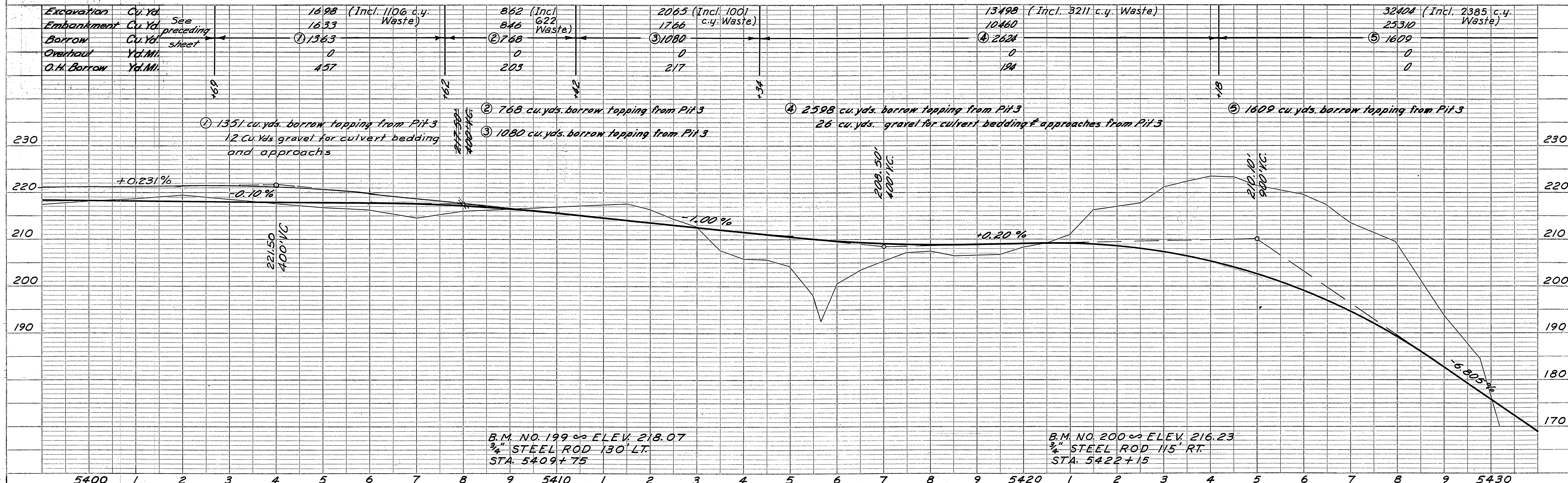
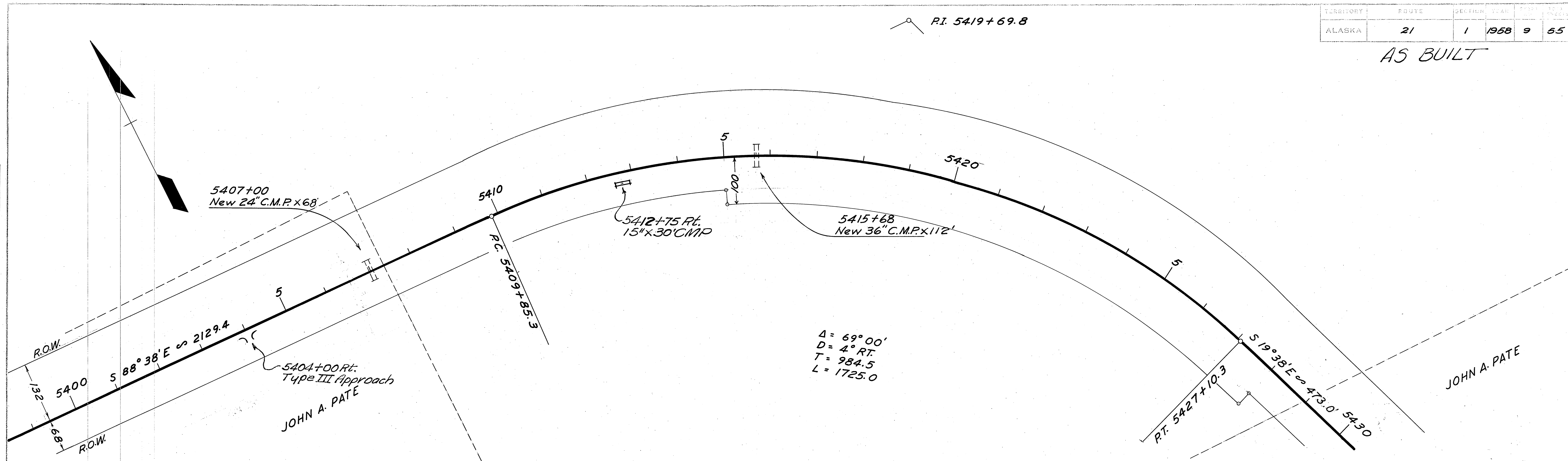
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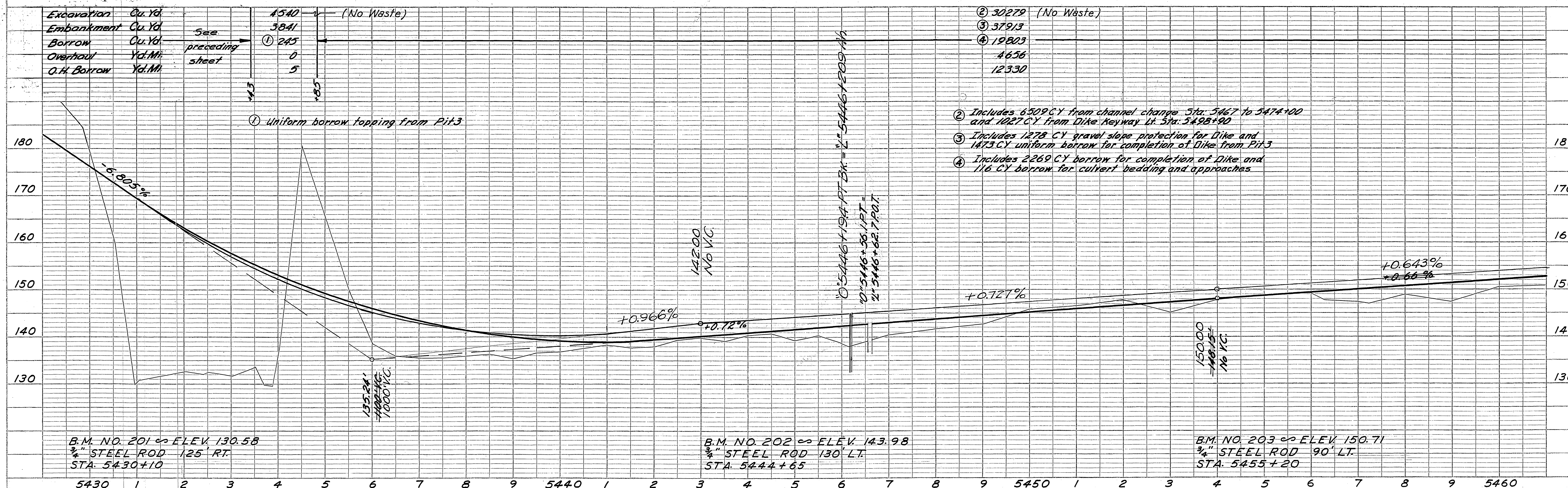
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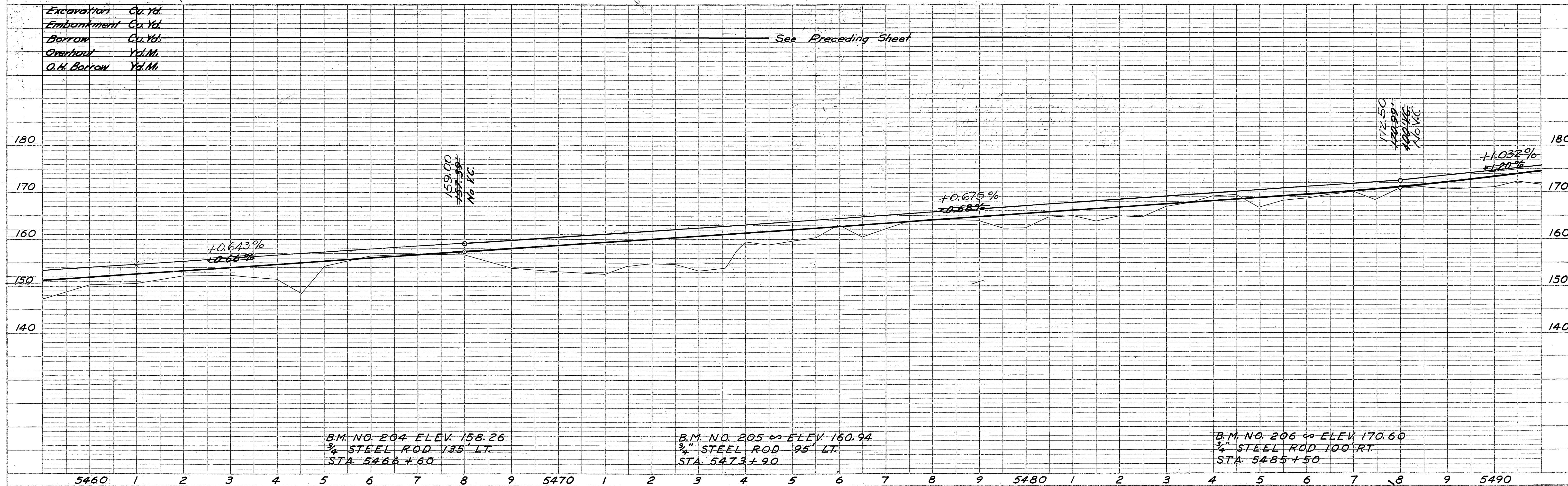
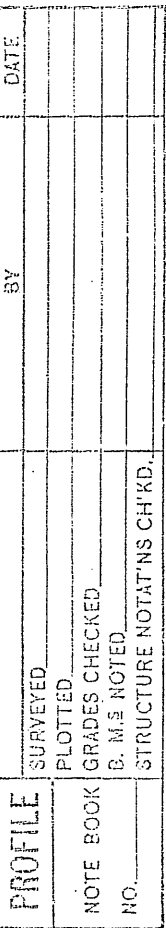


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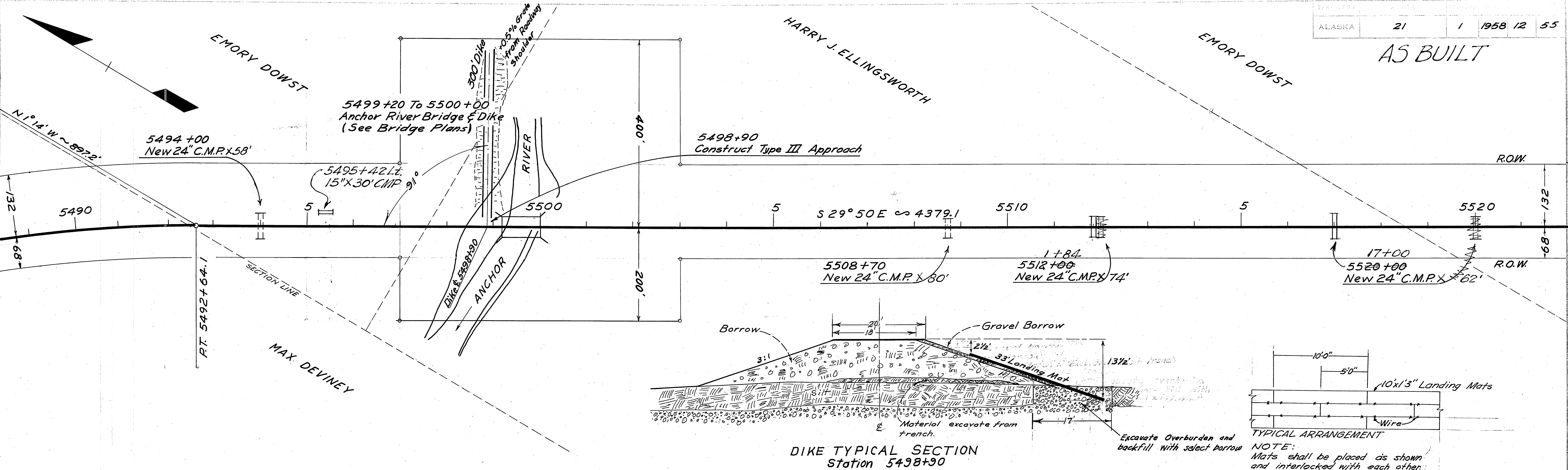


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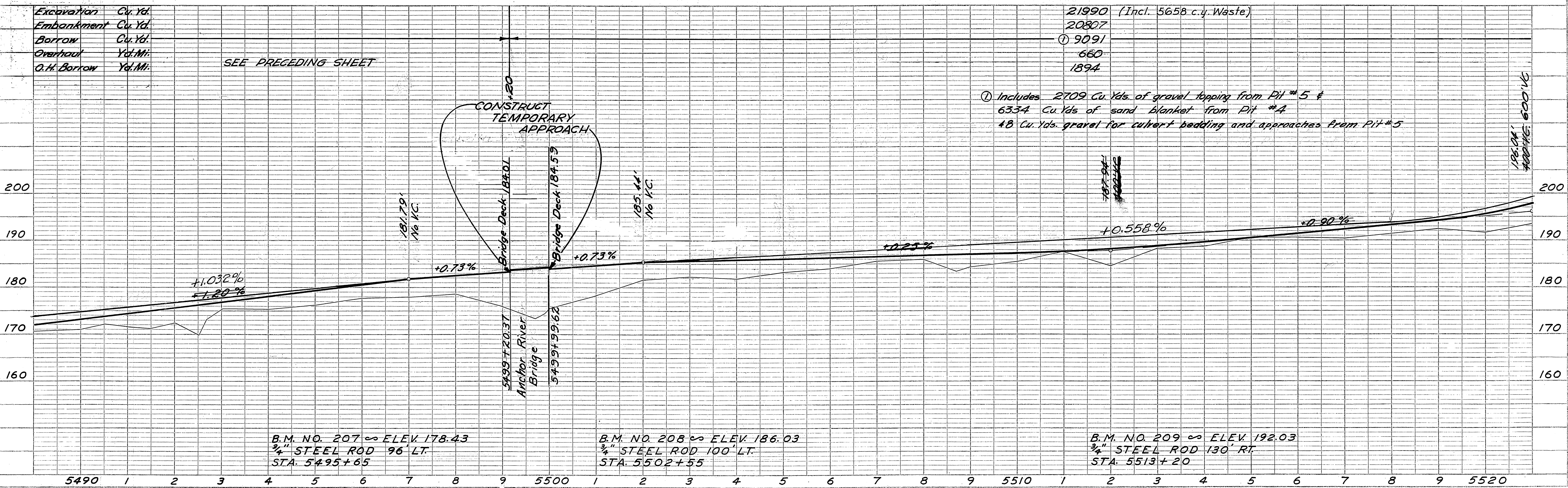


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	RT. OF WAY CHECKED	



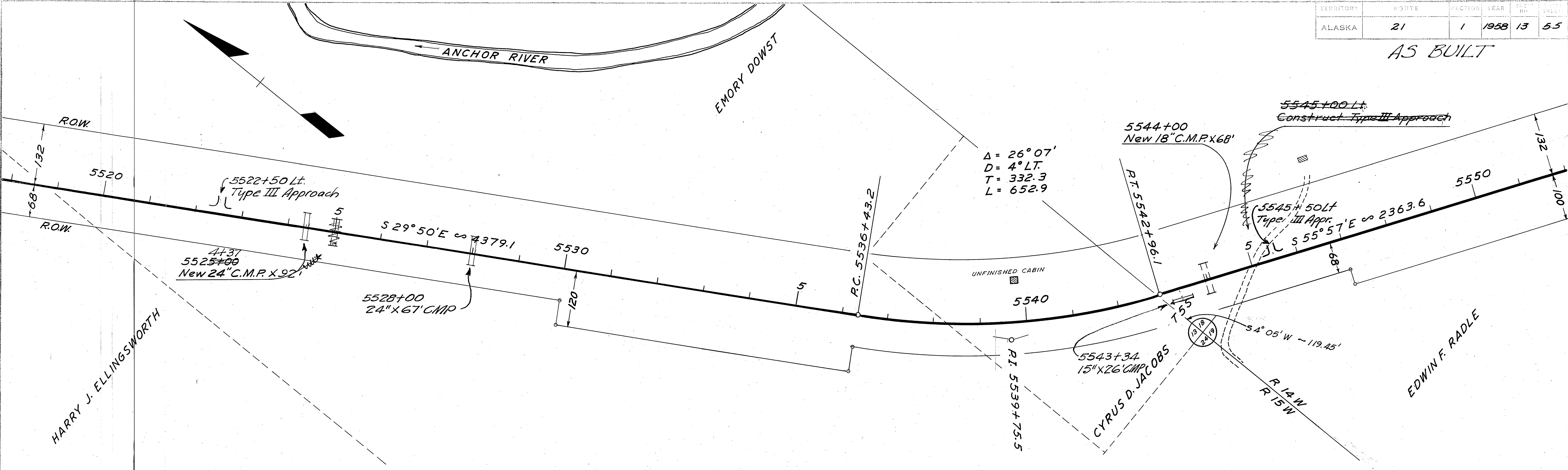
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	RT. OF WAY CHECKED	



TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	13	55

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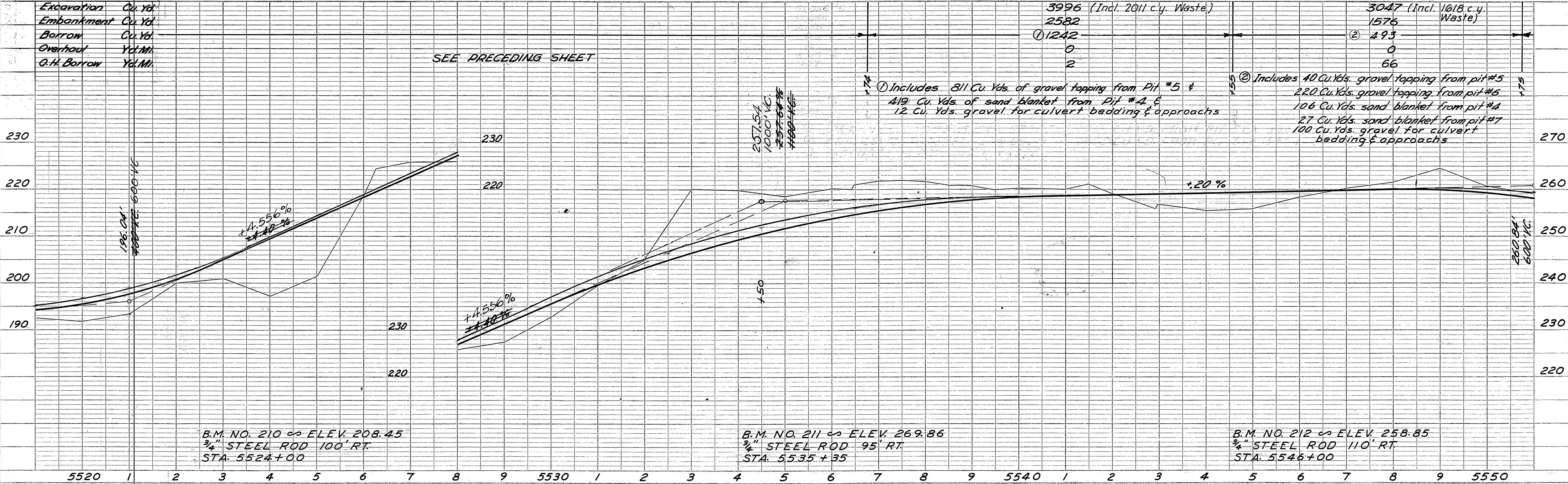


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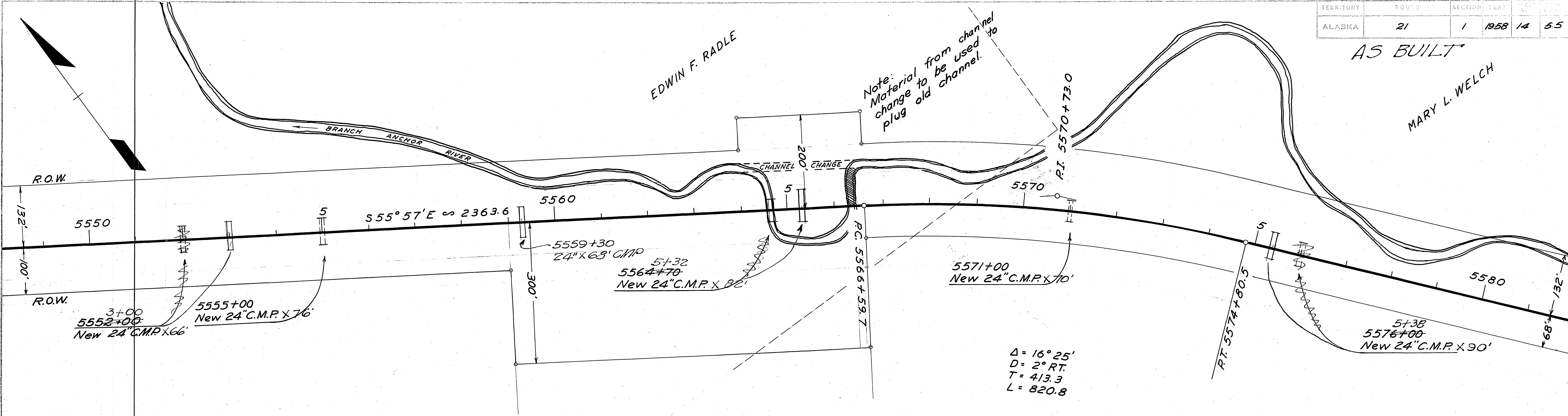
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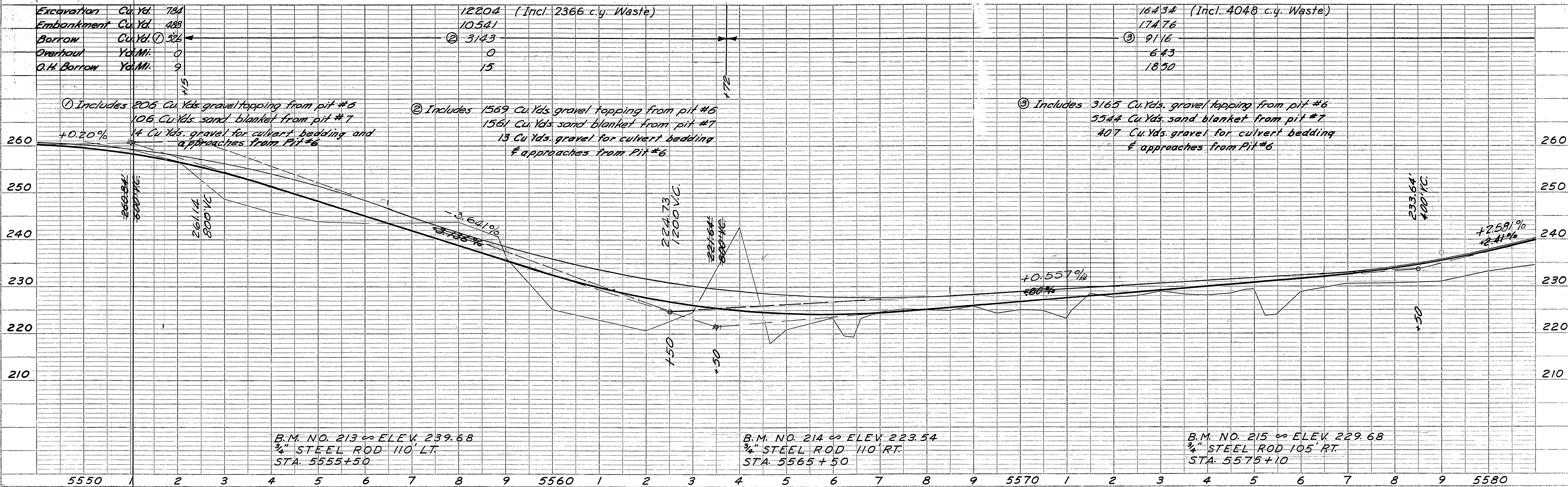
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MARY L. WELCH

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Δ = 16° 25'
D = 2° RT.
T = 413.3
L = 820.8

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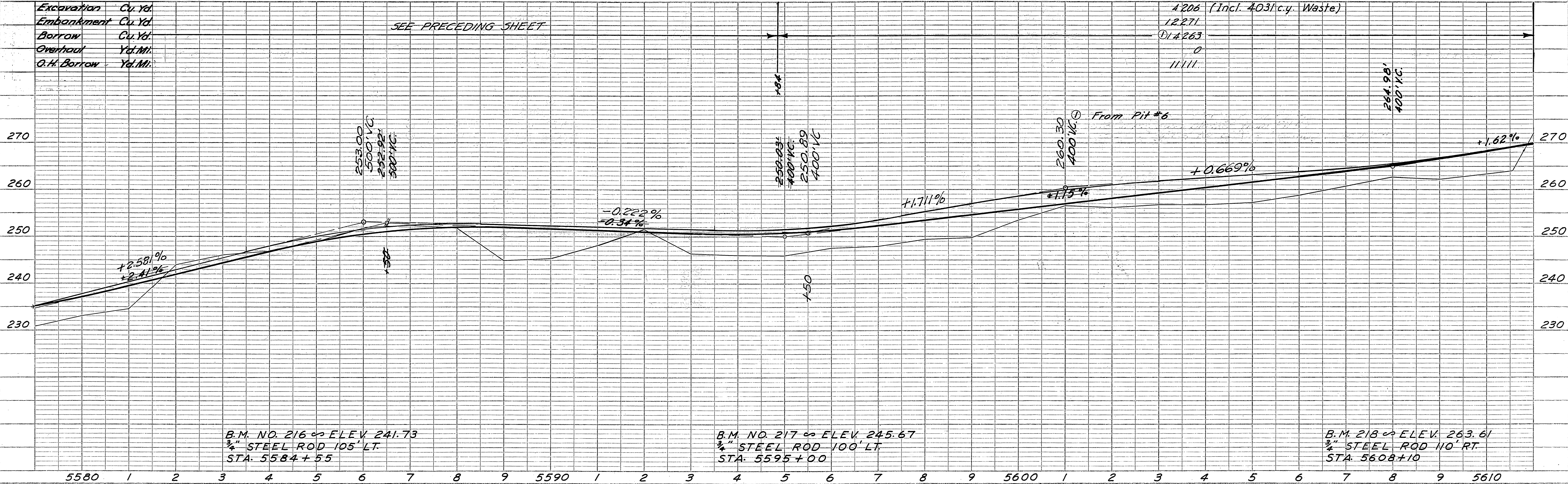
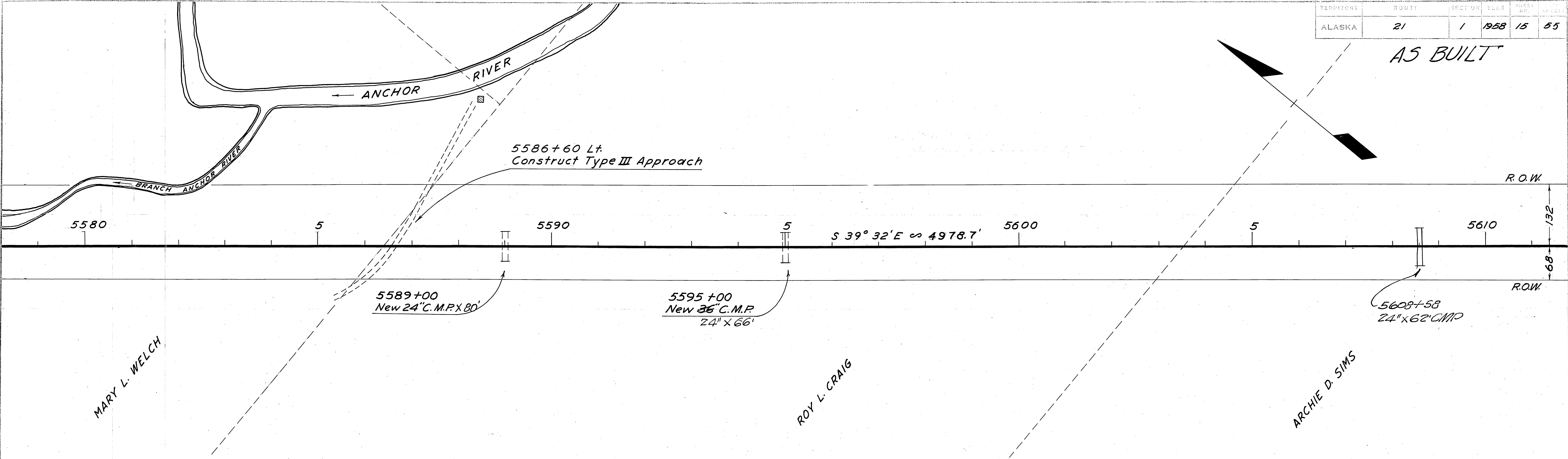


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ALASKA	21	1	1958	15	55

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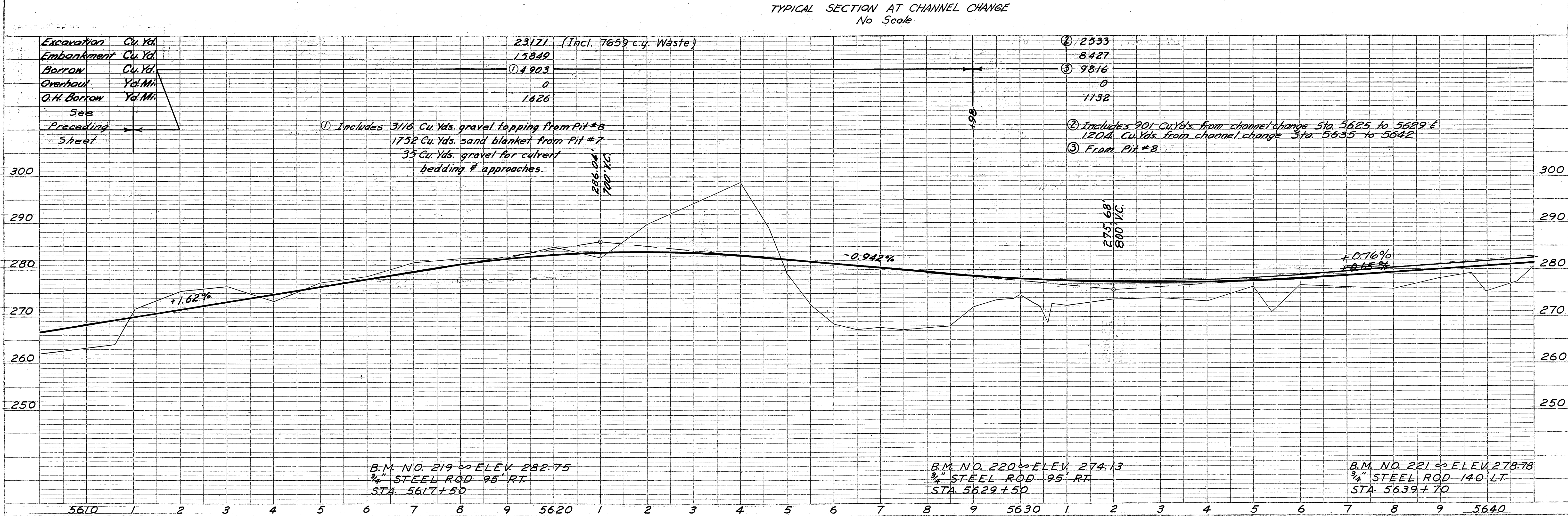
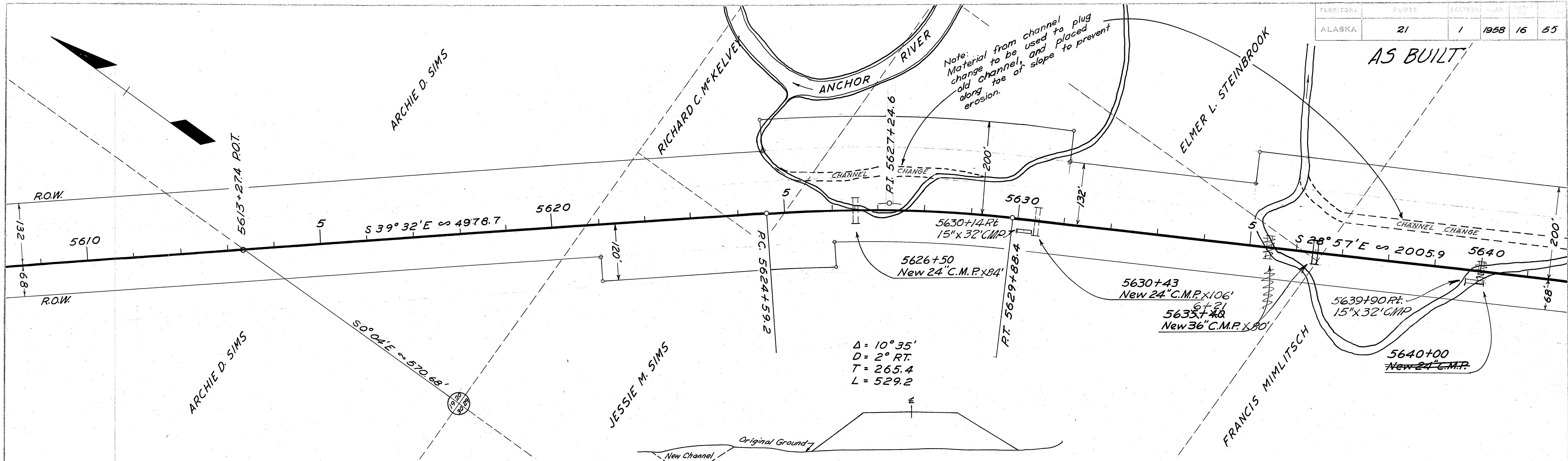
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NOTE BOOK	
ALIGNED CHECKED	
RT. OF WAY CHECKED	
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NOTE BOOK	
GRADES CHECKED	
IF N.E. NOTED	
NO.	



PLAN	DATE
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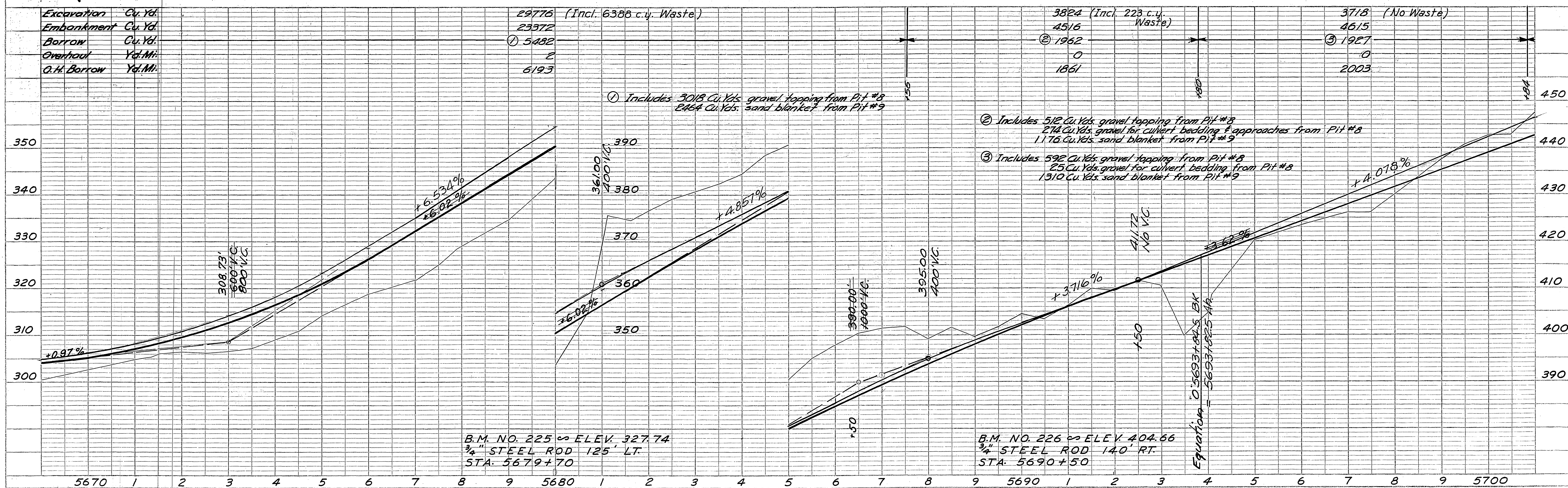
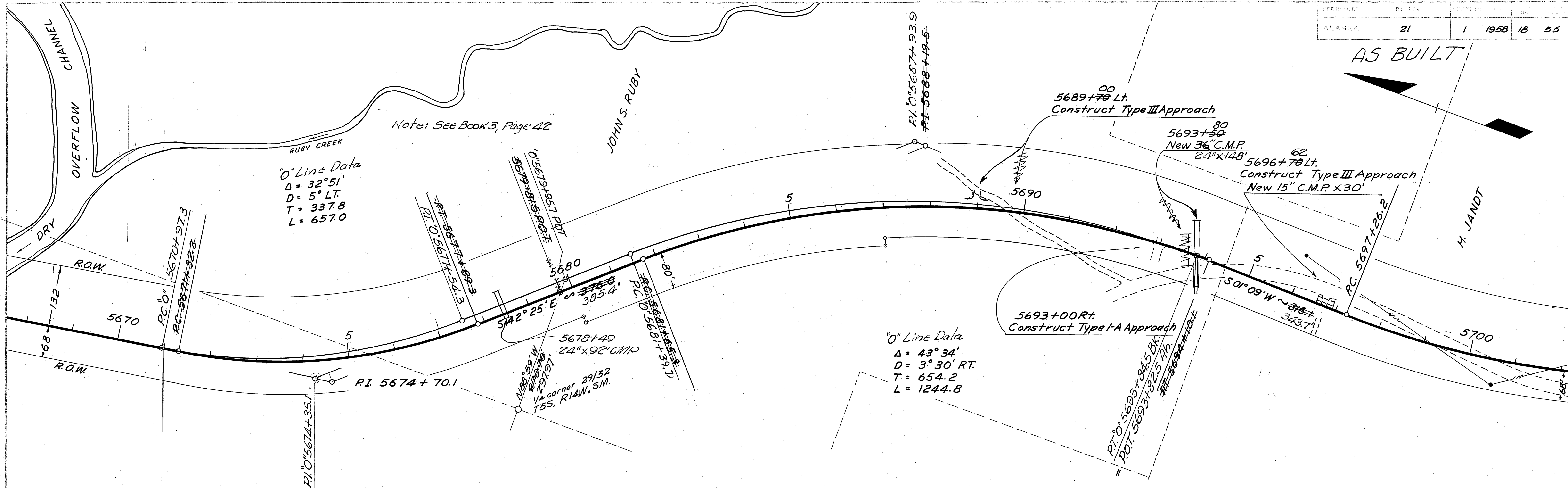


TERRITORY	ROUTE	SECTION	YEAR	DATE	BY
ALASKA	21	1	1958	18	55

AS BUILT

PLAN	DATE	BY
SURVEYED		
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CHECKED		
NO. OF WAY CHECKED		

PROFILE	DATE	BY
SURVEYED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATIONS CHD.		



PLAN	SURVEYED	DATE
BY		
NOTE BOOK	ALIGNMENT CHECKED	
NO.	RT. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
BY		
NOTE BOOK	GRADES CHECKED	
NO.	STRUCTURE NOTAS CHD.	

TERRITORY	ROUTE	SECTION	YEAR	NO.	DATE
ALASKA	21	1	1958	19	55

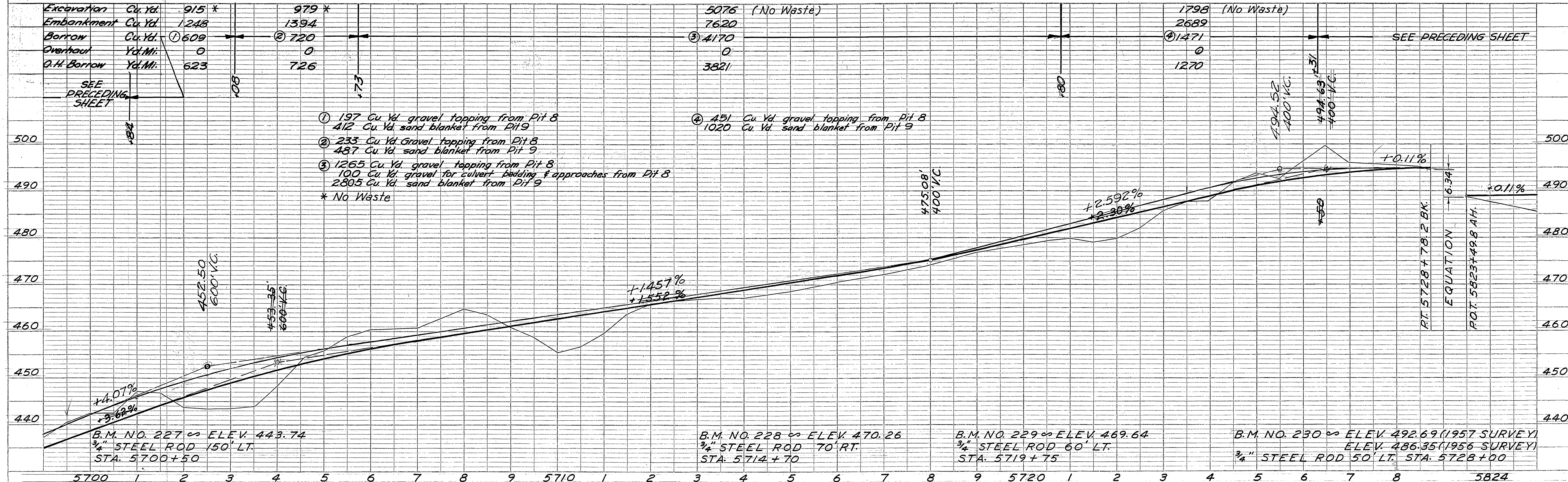
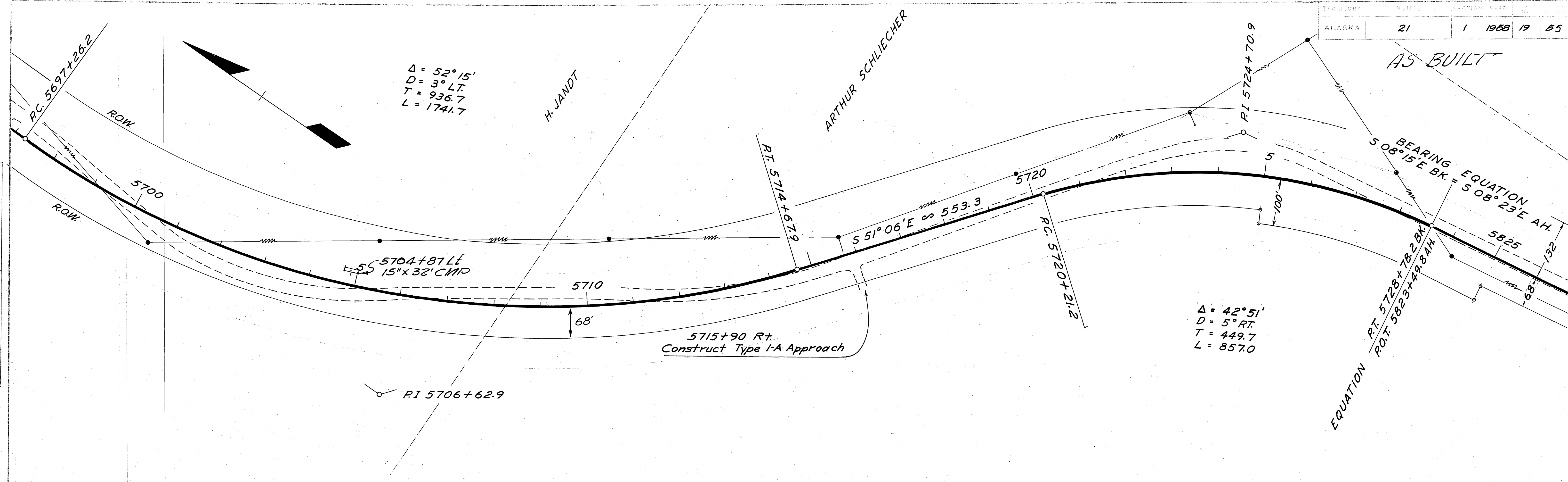
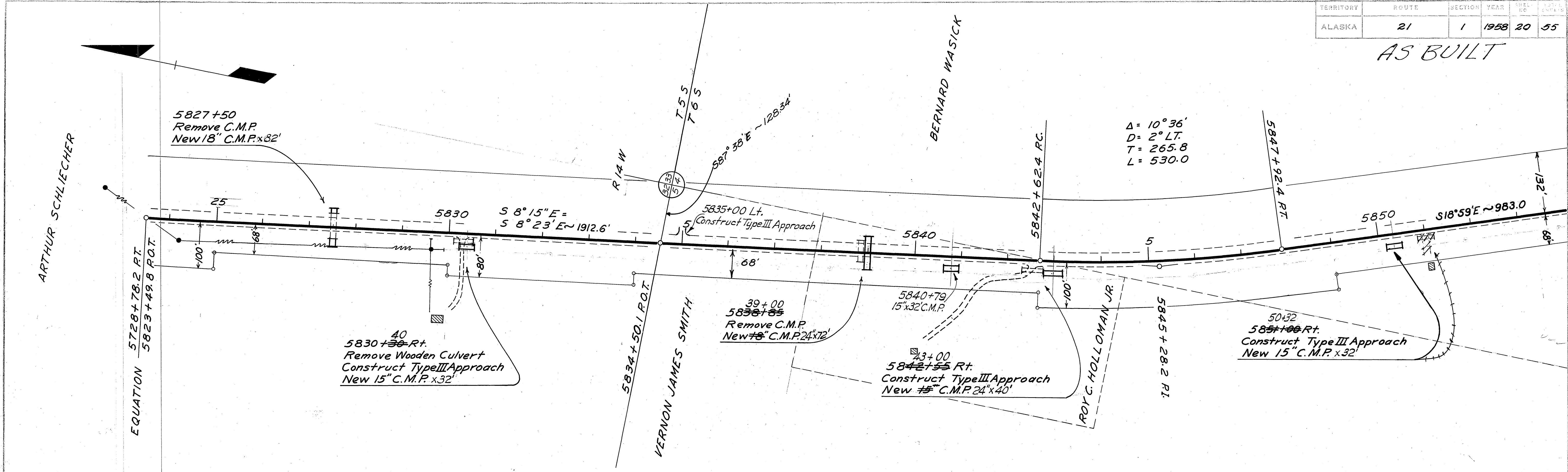


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KUPFFER & ESSER CO. NEW YORK.

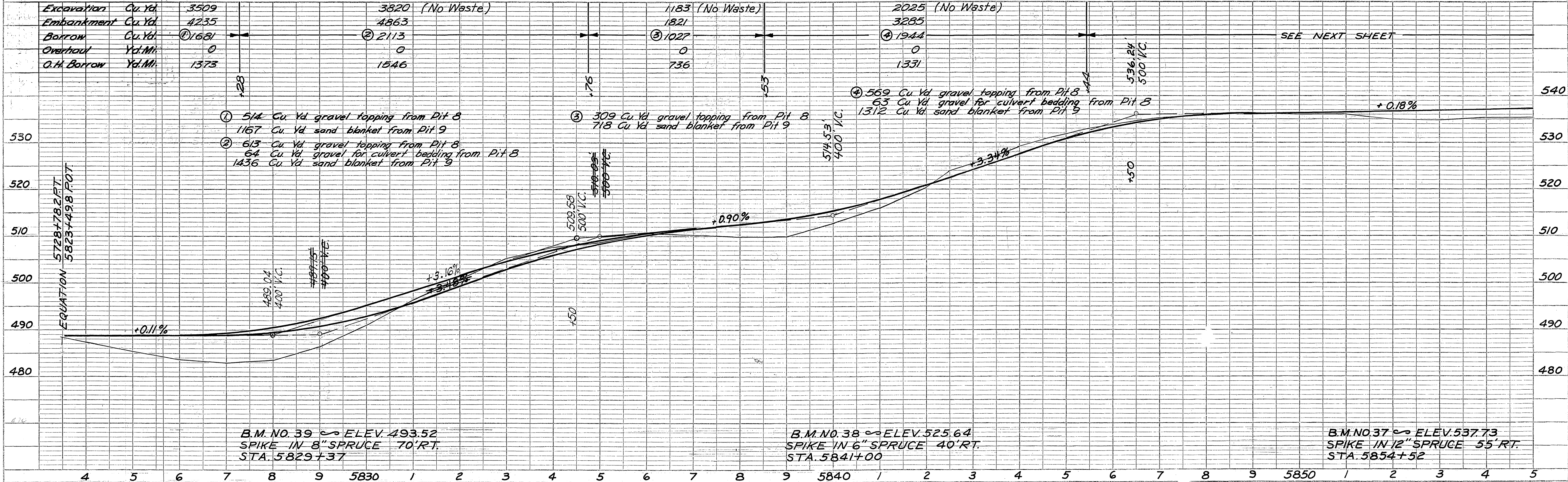
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ALASKA	21	1	1958	20	55

AS BUILT

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		



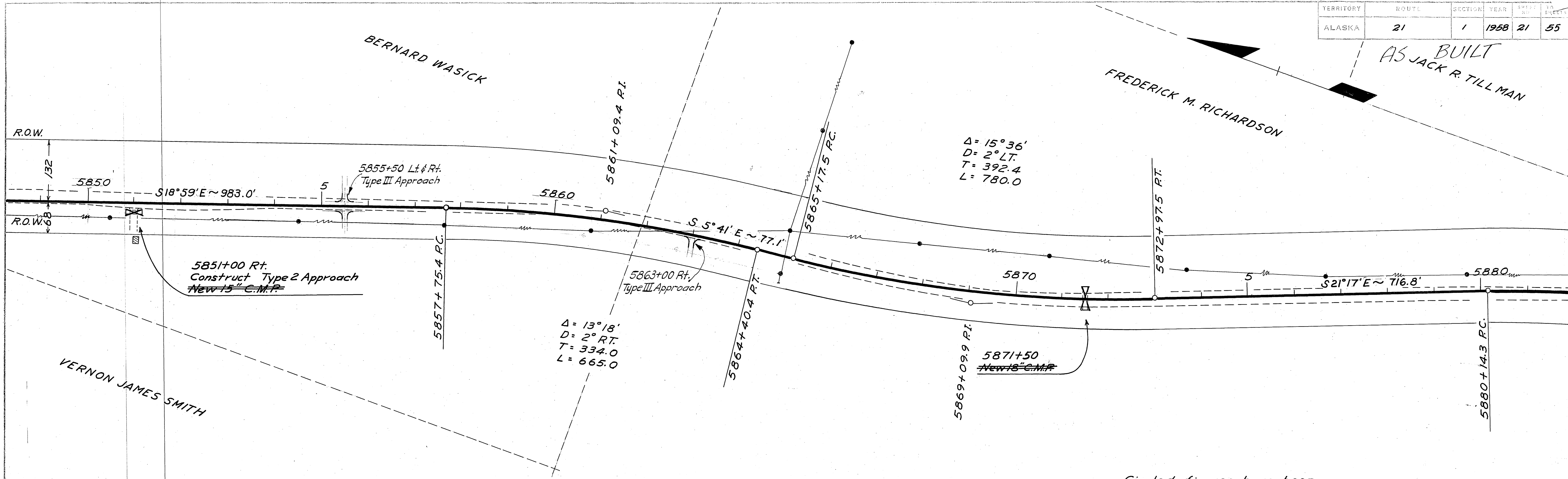
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SURVEYED		
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GRADES CHECKED		
STRUCTURE POINTS CH'VD.		
NO.		



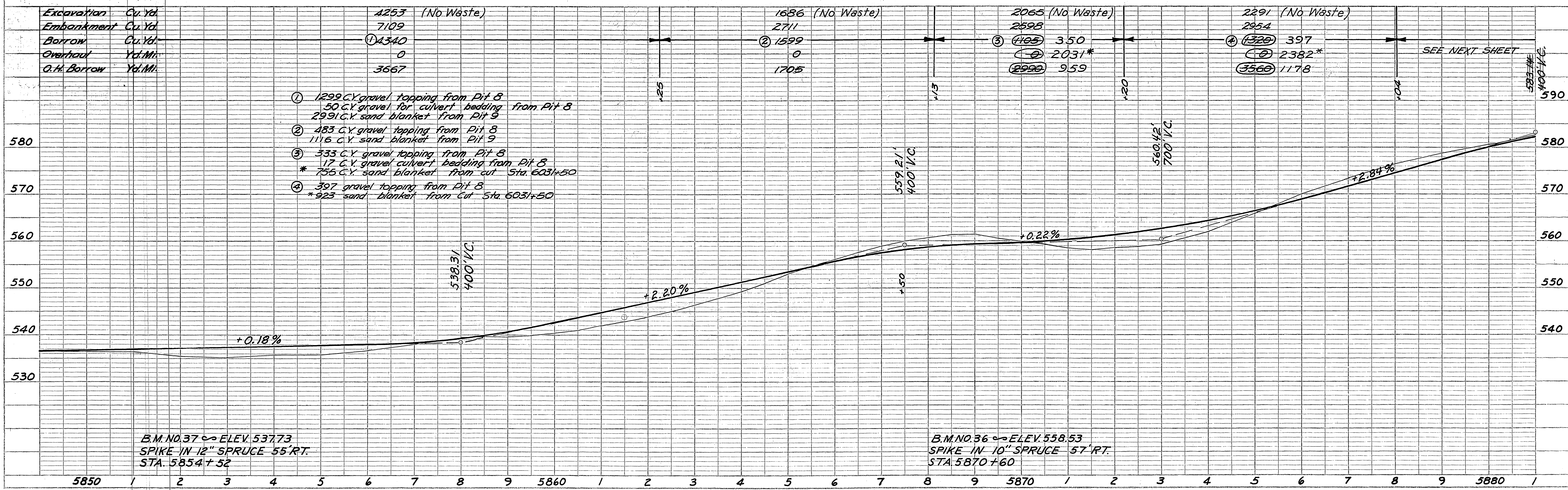
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	21	55

BUILT
AS JACK R. TILLMAN

PLAN	SURVEYED	DATE
BY		
NO.		

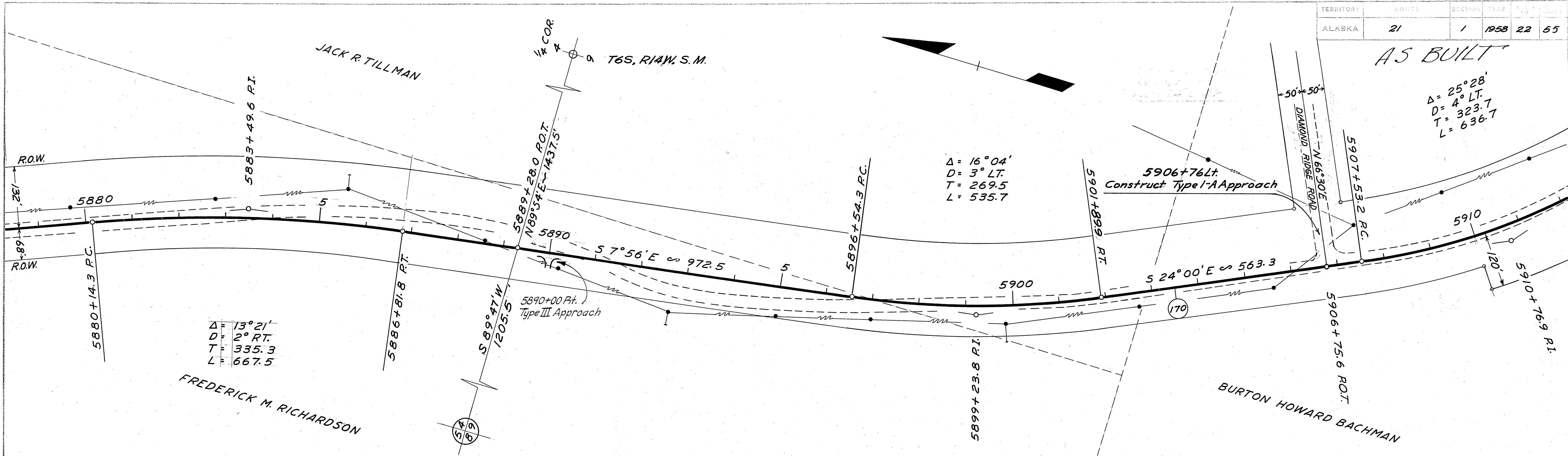


Circled figures have been revised as shown 8/8/58



PROFILE	SURVEYED	DATE
BY		
NO.		

PLAN	DATE	BY	DATE	BY
DESIGNED				
CHECKED				
NOTED				
NO.				



Circled figures have been revised as shown 8/8/58

8600 (No Waste)
 ① 13473
 ② 2339
 ③ 12415 *
 ④ 7697

PROFILE	DATE	BY	DATE	BY
DESIGNED				
CHECKED				
NOTED				
NO.				

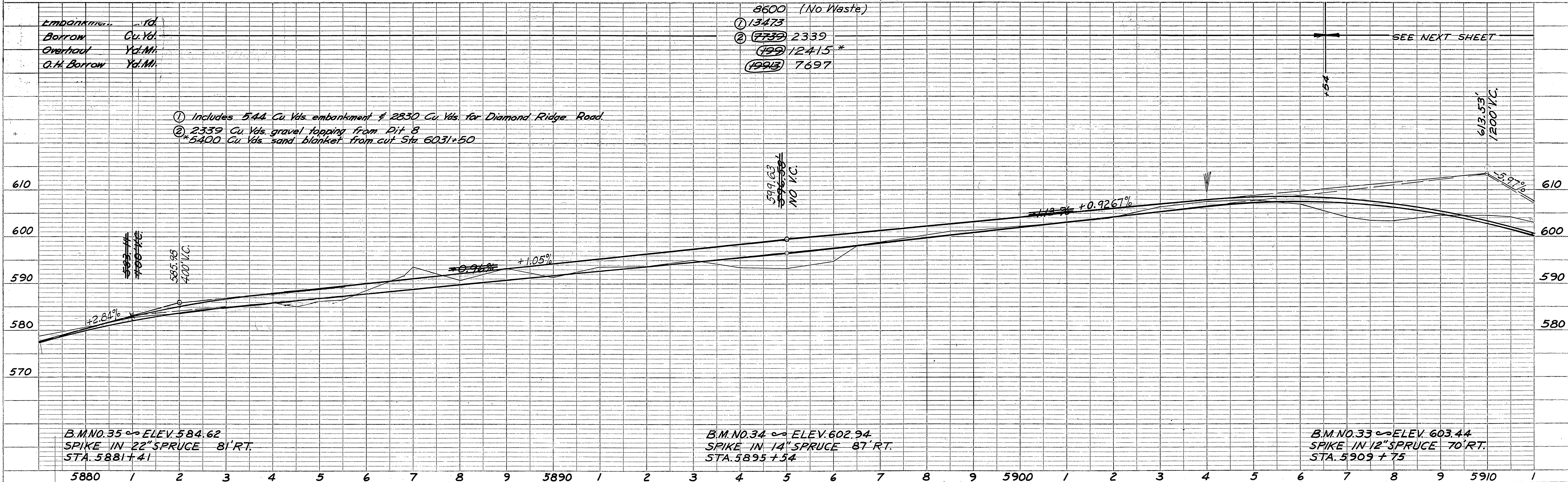
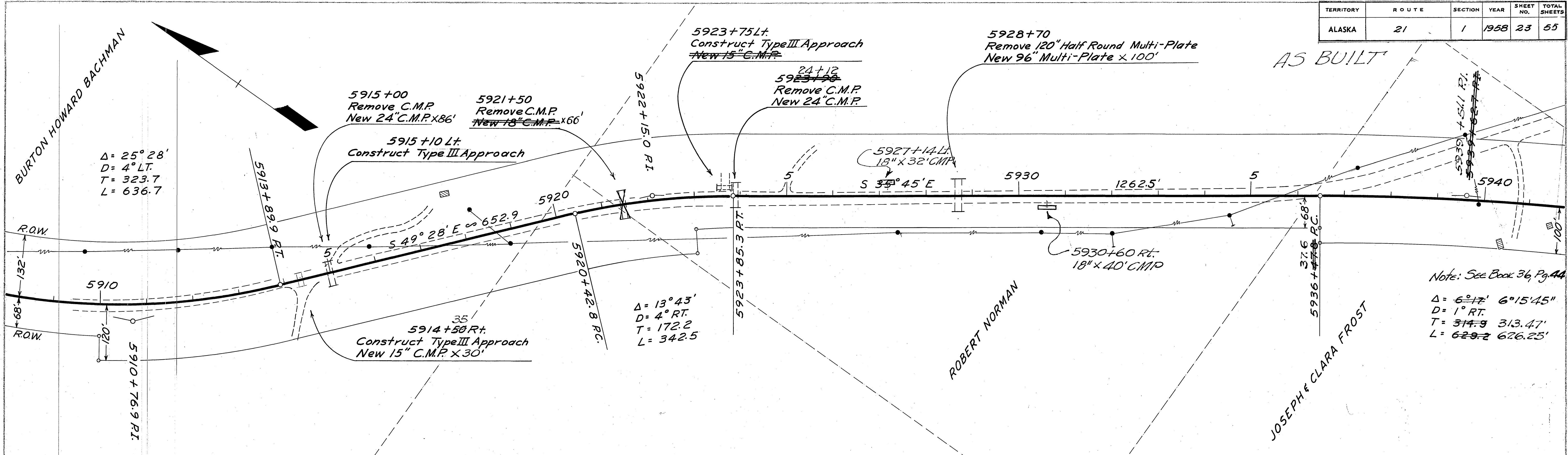


PLATE 1 - PLAN - PROFILE - O.P.R. & R.E. STANDARD
 KUFFEL & ESSER CO., NEW YORK

K & E Co. No. 348-10
 (PREFRINTED ELEVATION)
 30215

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	23	55

PLAN	SURVEYED	DATE
NO.		
NOTE BOOK	PLOTTED	
ALIGNED	CHECKED	
RT. OF WAY	CHECKED	



Circled figures have been revised as shown 8/8/58

DATE	BY	PROFILE
		SURVEYED
		PLOTTED
		NOTE BOOK
		GRADES CHECKED
		& N.E. NOTED
		NO.
		STRUCTURE NOTATIONS CHKD.

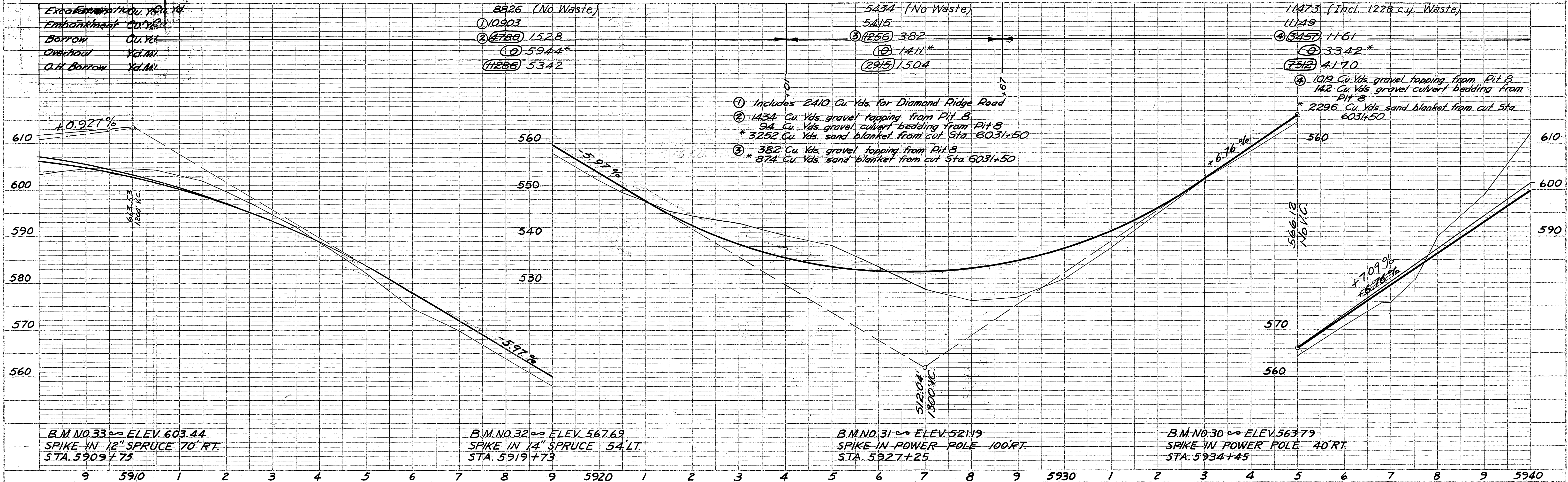


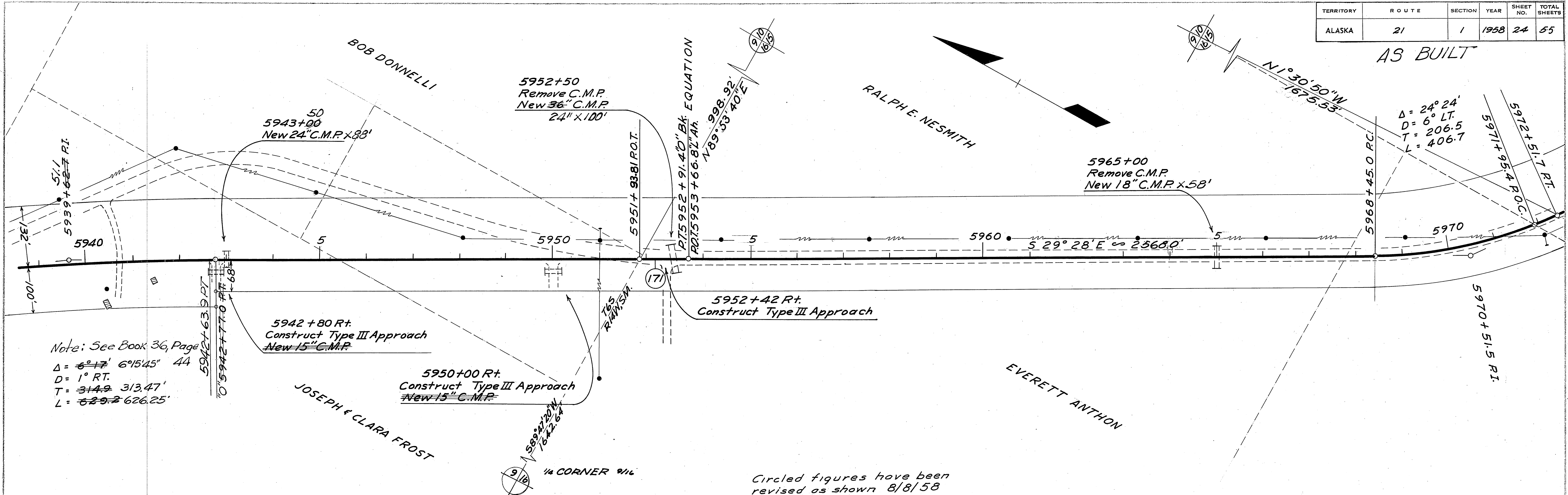
PLATE 1 - PLAN - PROFILE - O. P. R. & N. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

R & E Co. No. 346-10
1958

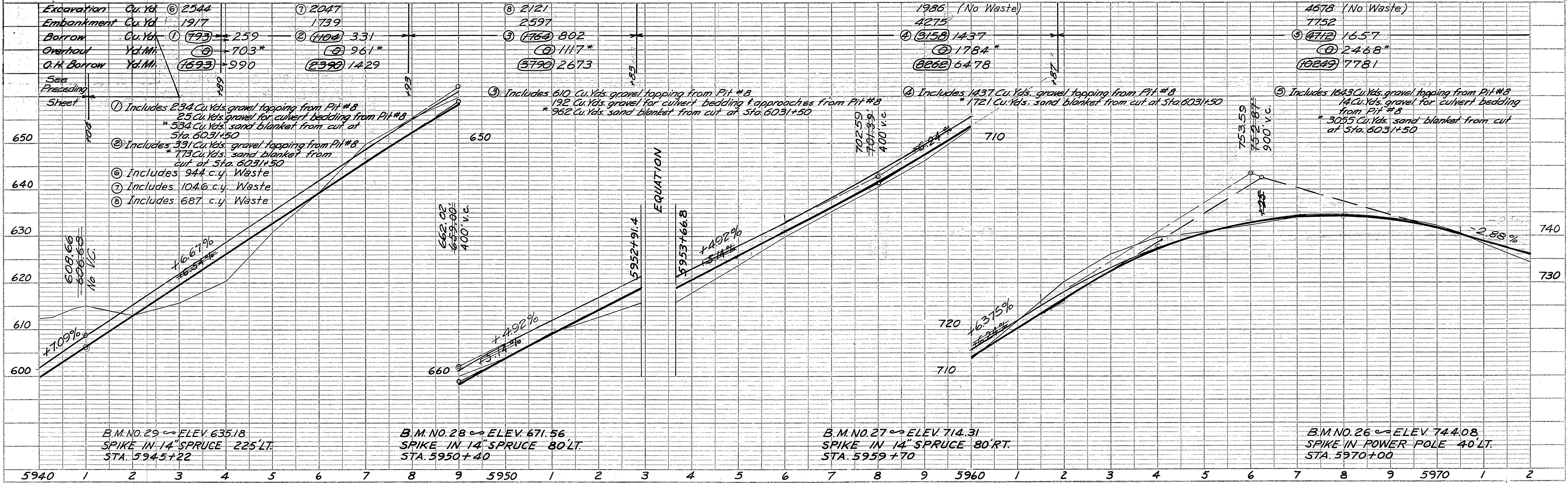
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ALASKA	21	1	1958	24	55

AS BUILT

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	SV
NO.	ALIGNED CHECKED	
	RT. OF WAY CHECKED	

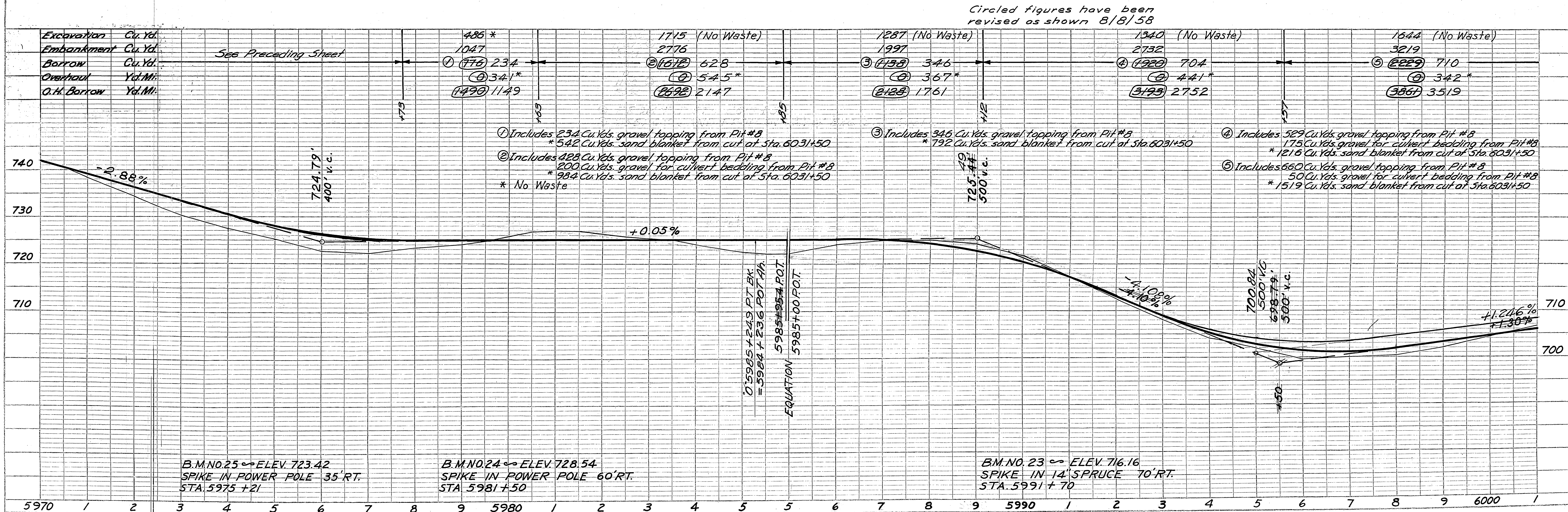


PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	SV
NO.	STRUCTURE NOTATIONS CHD.	



PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED		
NO. _____	RT. OF WAY CHECKED		

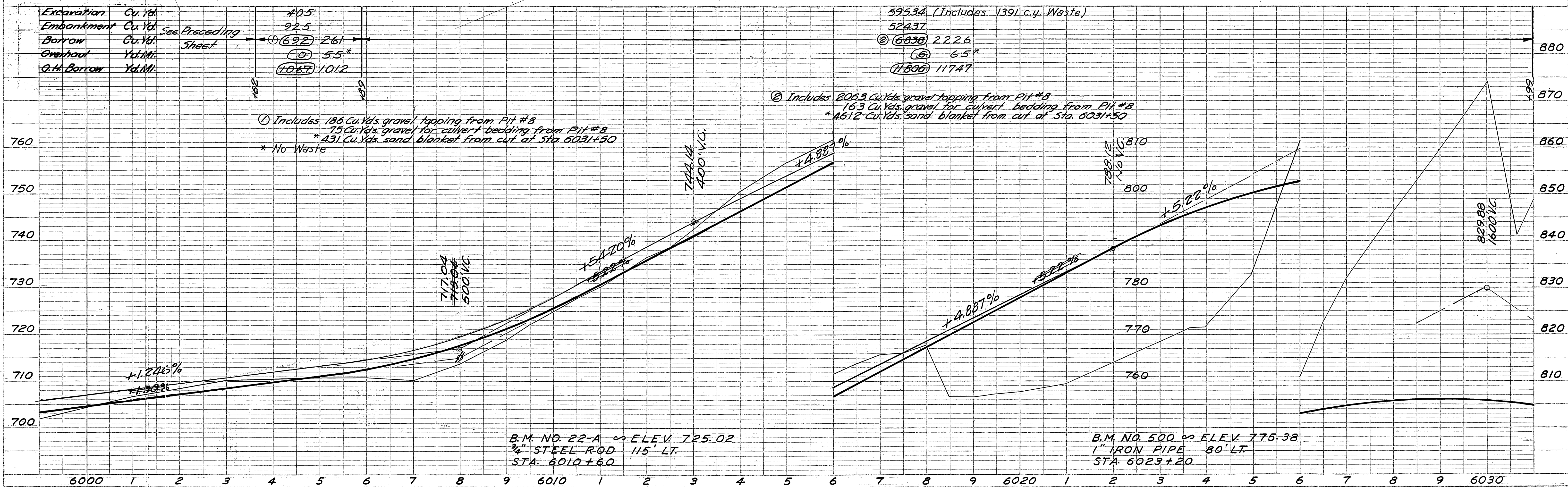
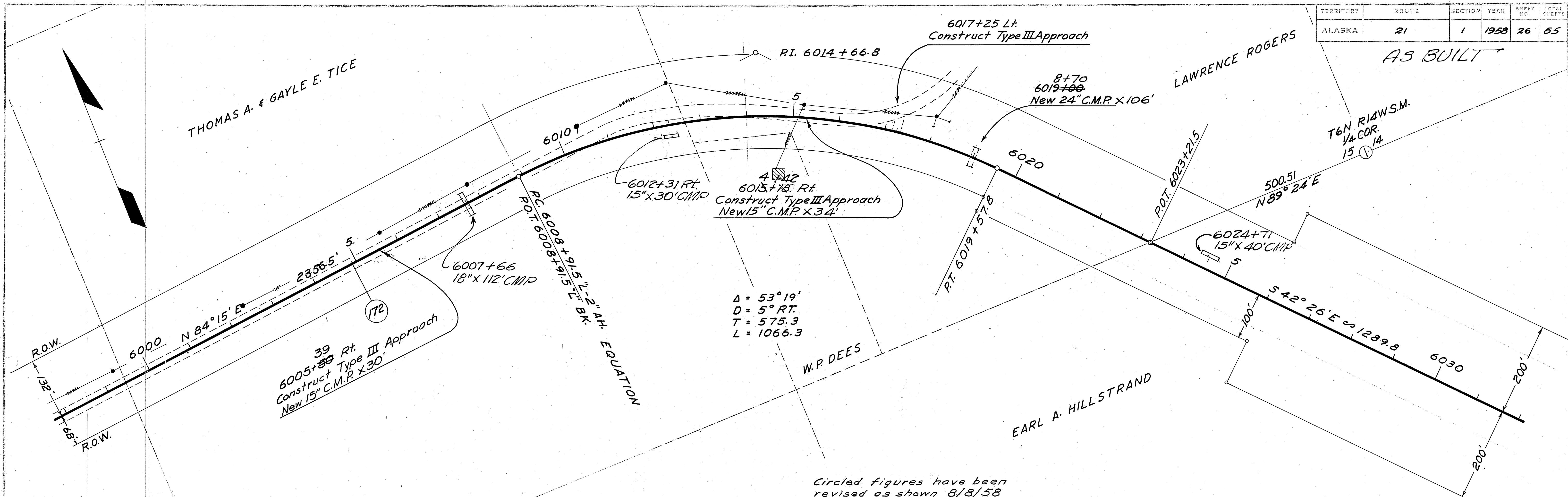
DATE	BY	SURVEYED	PROFILE
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		GRADES CHECKED	NOTE BOOK
		S. M.S. NOTED	NO.
		STRUCTURE NOTATIONS CH'D.	



PLAN	SURVEYED	DATE
BY		
NOTE BOOK	ALIGNED CHECKED	
NO.	RT. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
BY		
NOTE BOOK	ALIGNED CHECKED	
NO.	STRUCTURE NOTATIONS CHECKED	

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	26	55



TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	27	55

PLAN	DATE	BY
DESIGNED		
PLOTTED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		

PROFILE	DATE	BY
DESIGNED		
PLOTTED		
NOTE BOOK		
GRADES CHECKED		
STRUCTURE NOTATION CHD.		
NO.		

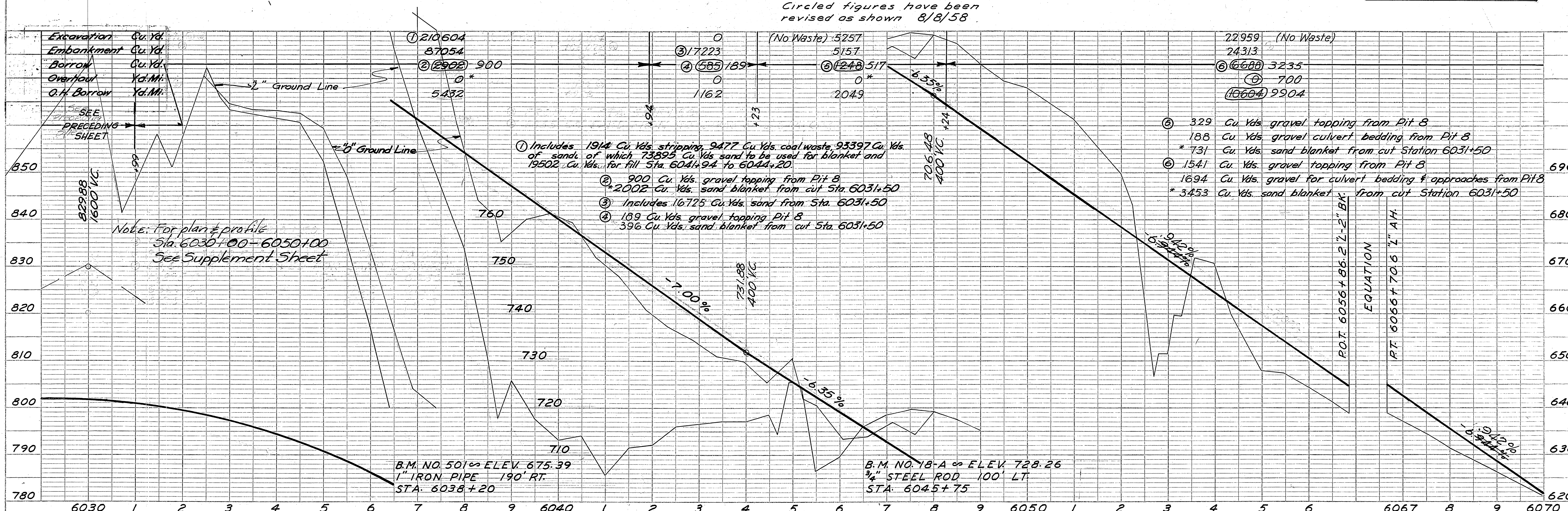
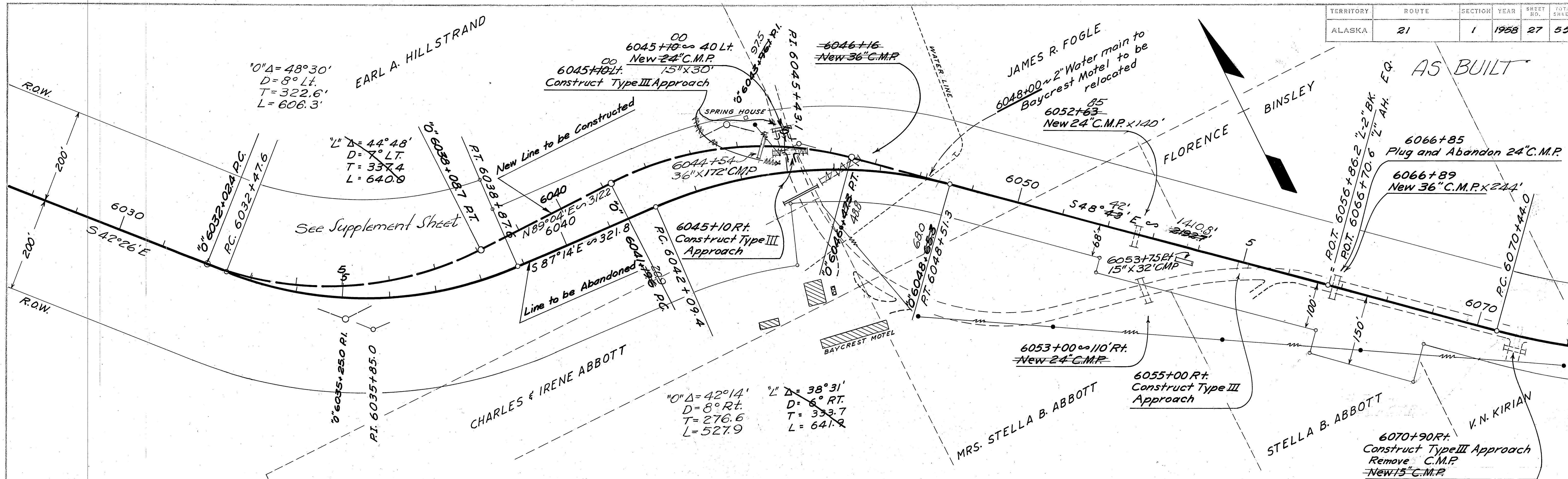
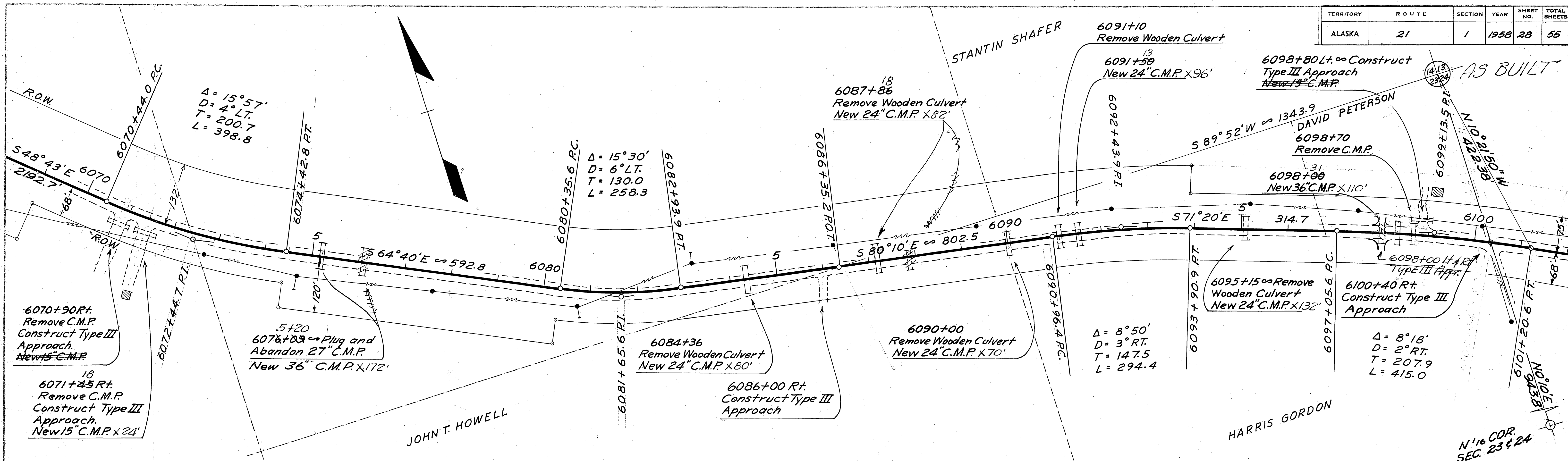


PLATE 1 - PLAN - PROFILE D. P. R. & E. STANDARD
KRUEPPEL & FESSER CO., NEW YORK

R & E Co. No. 348-HC
UNIVERSITY MICROFILMS
SERIALS

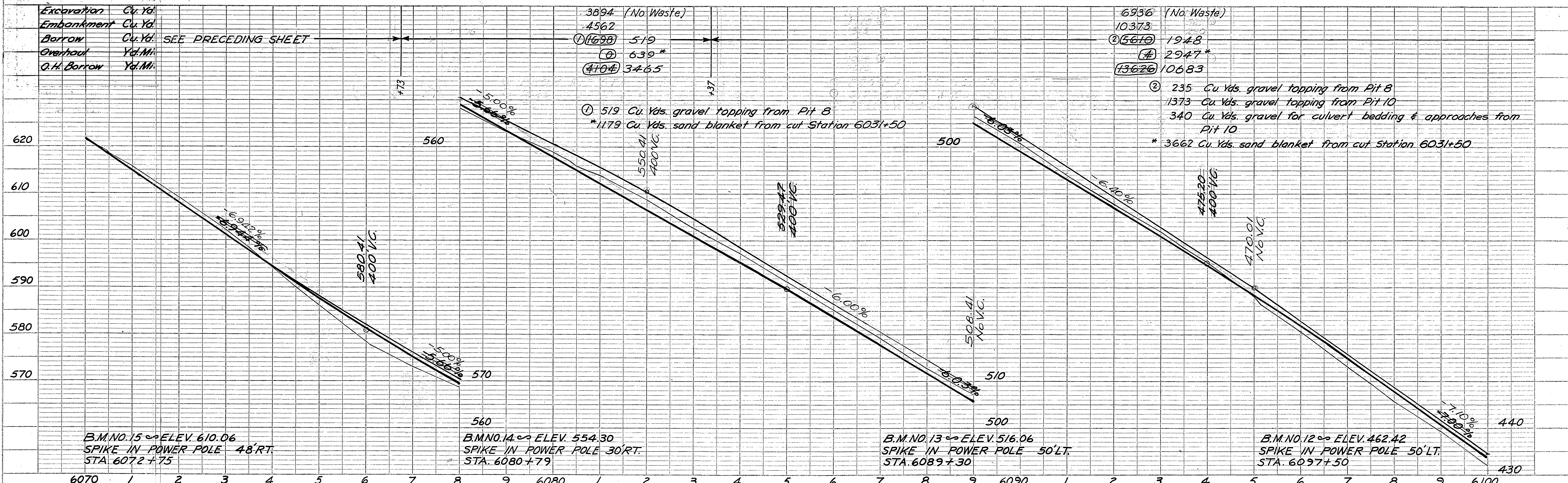
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ALASKA	21	1	1958	28	55

PLAN	SURVEYED	DATE
NO.	BY	
NOTE BOOK	PLOTTED	
ALIGNMENT CHECKED	RT. OF WAY CHECKED	



Circled figures have been revised as shown 8/8/58

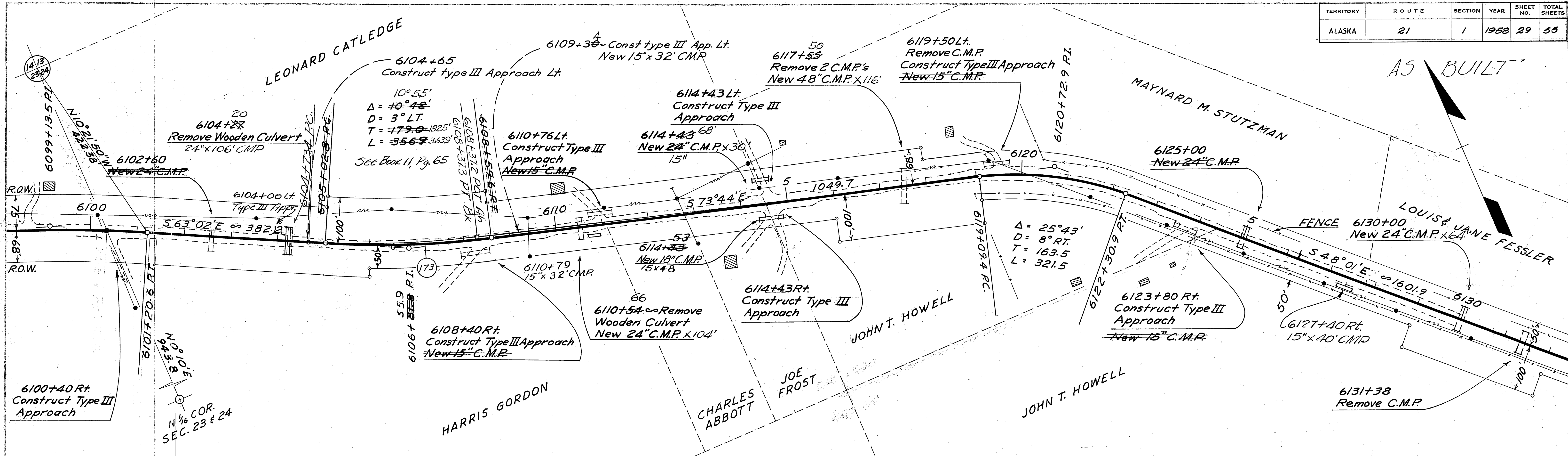
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NOTE BOOK	PLOTTED		
NO.	B. M.'S CHECKED		
	B. M.'S NOTED		
	STRUCTURE NOTATIONS CHK'D.		



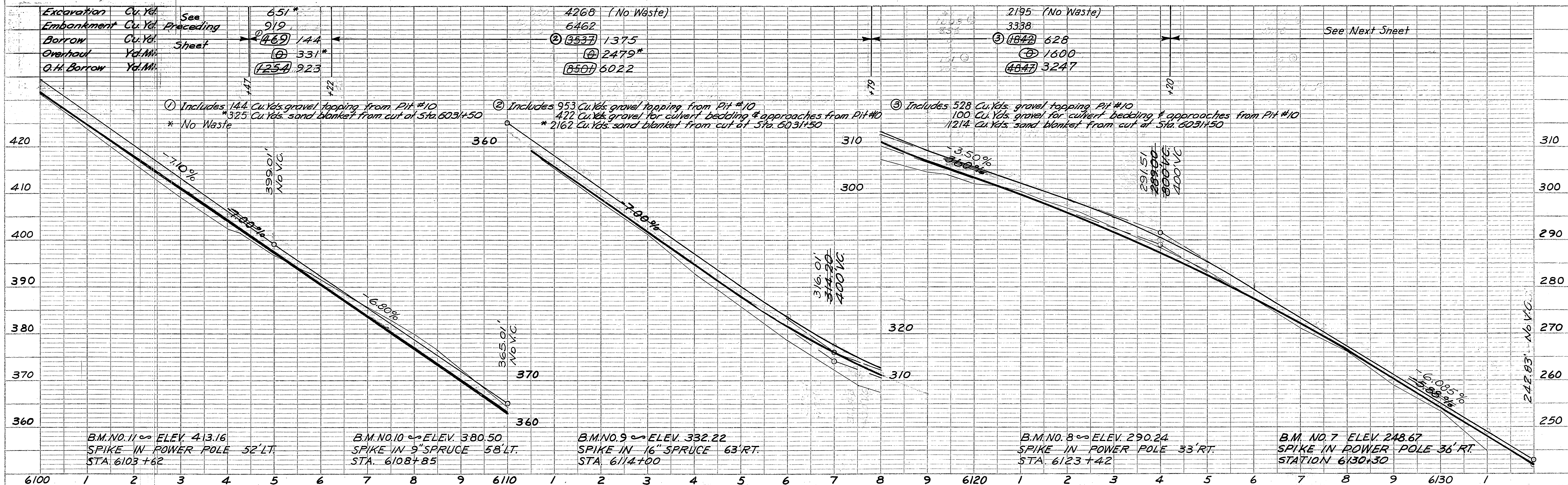
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	29	55

PLAN	SURVEYED	DATE
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.

PROFILE	SURVEYED	DATE
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NO.	NO.	NO.
NO.	NO.	NO.

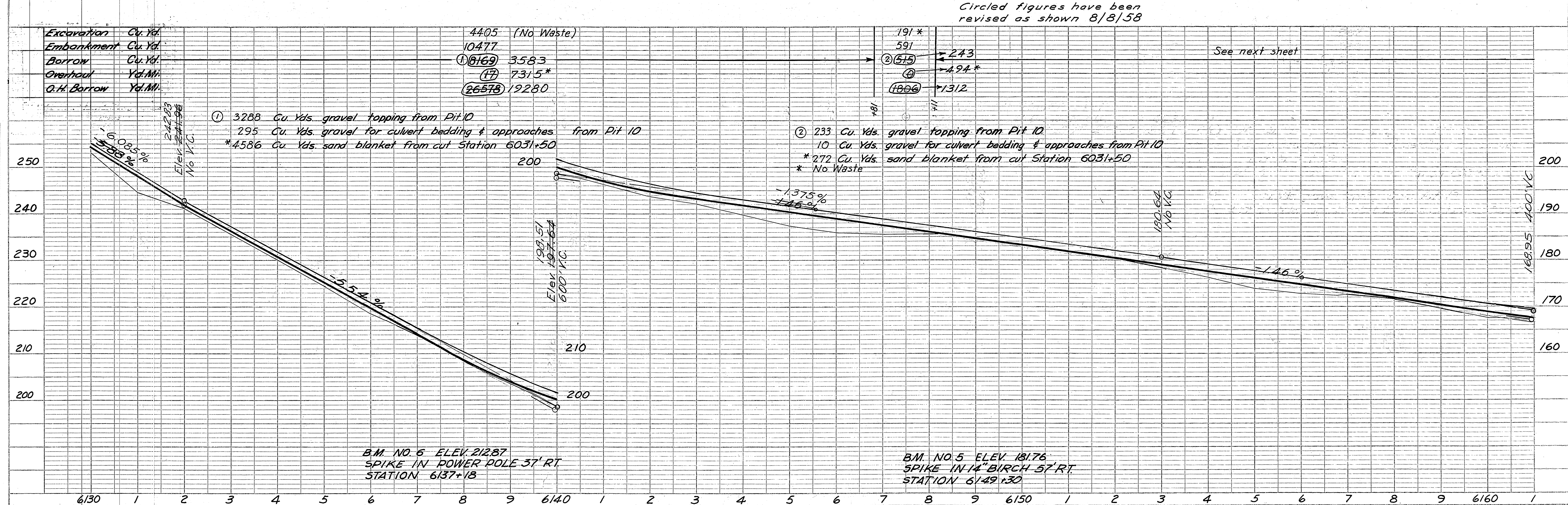
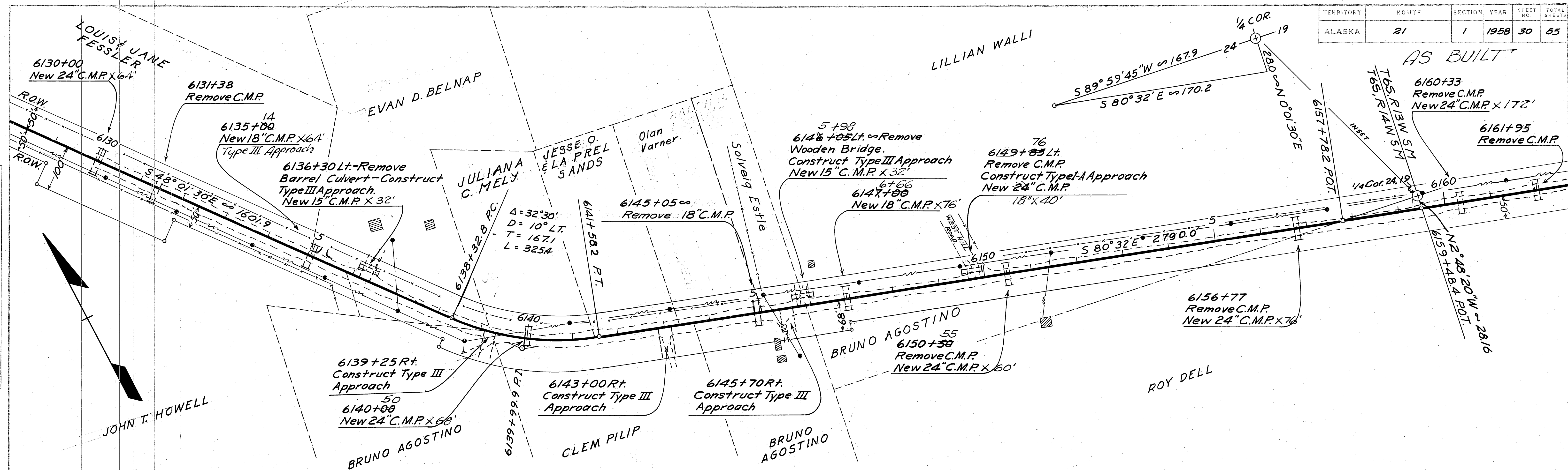


Circled figures have been revised as shown 8/8/58



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NO.	BY	
NOTE BOOK	PLANNED	
NO.	BY	
NOTE BOOK	PLANNED	
NO.	BY	

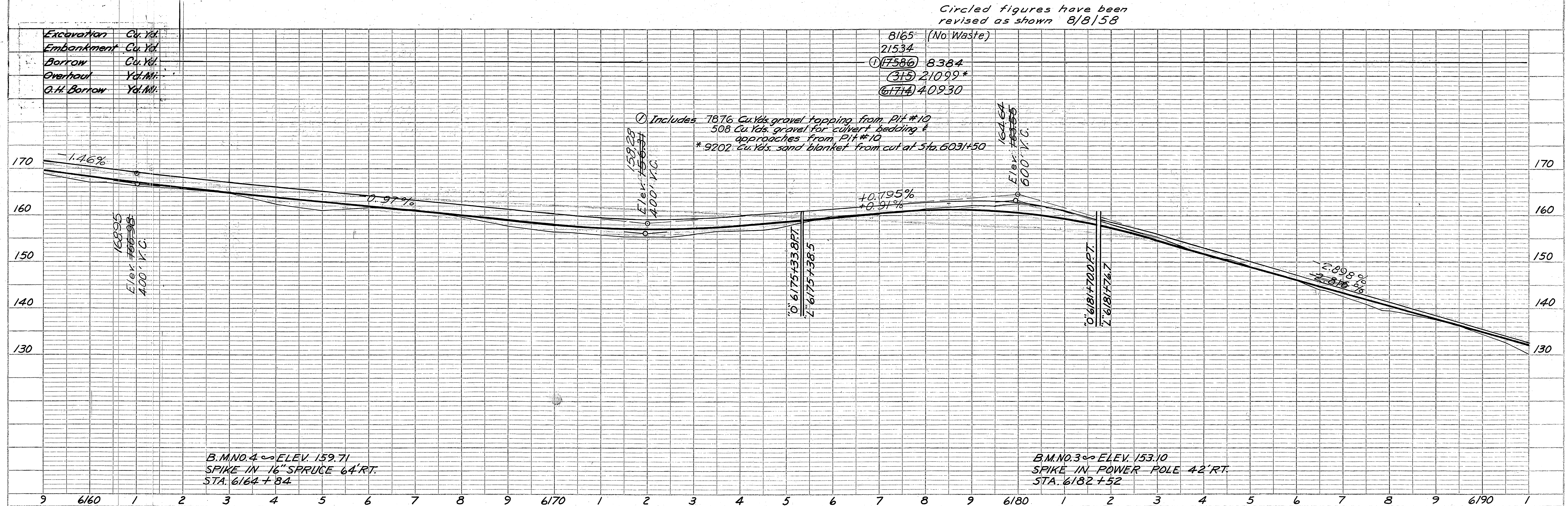
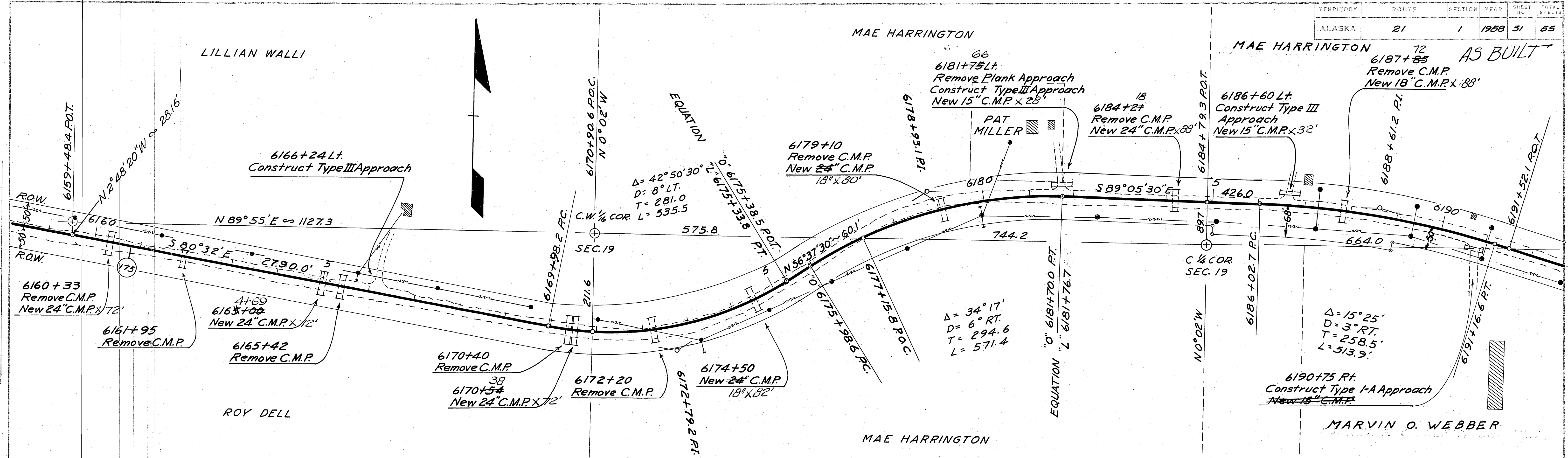
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NO.	BY	
NOTE BOOK	PLANNED	
NO.	BY	
NOTE BOOK	PLANNED	
NO.	BY	



PLAN	SURVEYED	DATE
NO.	BY	
DATE	BY	
NOTE BOOK	ALIGNED CHECKED	
NO.	BY	

PROFILE	SURVEYED	DATE
NO.	BY	
DATE	BY	
NOTE BOOK	GRADES CHECKED	
NO.	BY	
DATE	BY	
NOTE BOOK	STRUCTURE NOTATIONS CHECKED	
NO.	BY	

TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	31	55

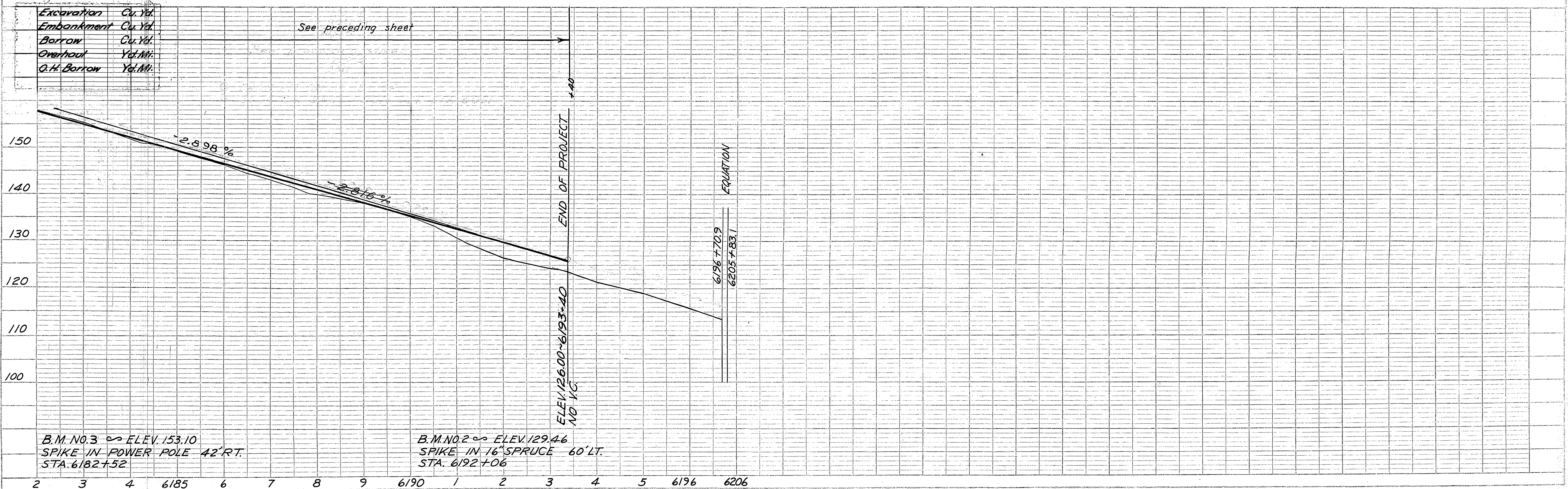
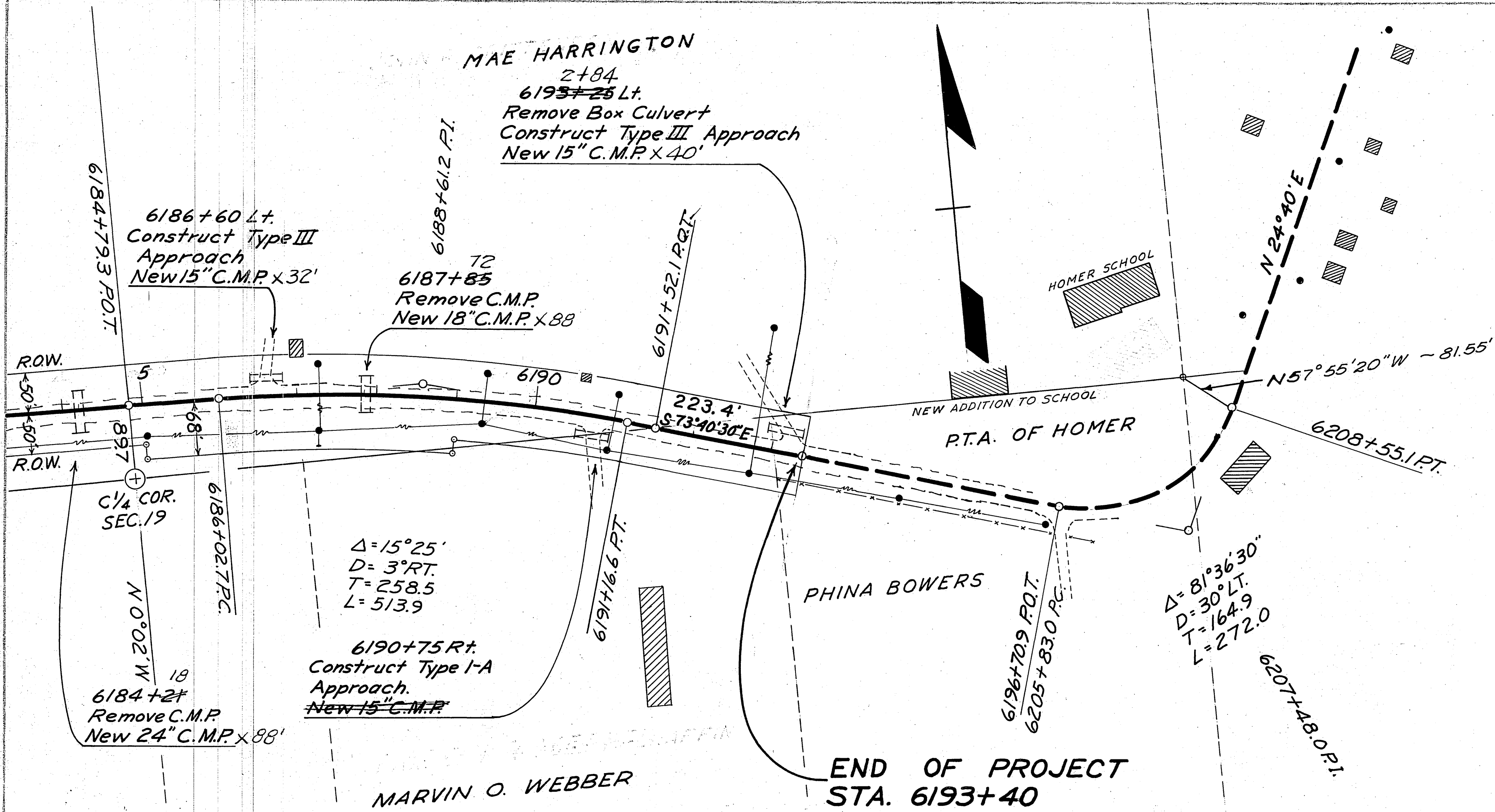


TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1958	32	65

AS BUILT

PLAN	SURVEYED	DATE	BY
NOTE BOOK	PLANNED	DATE	BY
NOTE BOOK	CONSTRUCTED	DATE	BY
NOTE BOOK	AS BUILT	DATE	BY

PROFILE	SURVEYED	DATE	BY
NOTE BOOK	PLANNED	DATE	BY
NOTE BOOK	CONSTRUCTED	DATE	BY
NOTE BOOK	AS BUILT	DATE	BY



LIST OF CULVERTS AND MISCELLANEOUS WORK

STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Borrow C.Y.	Remove & Dispose of Existing Culvert	15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections	REMARKS
	Construct Type III Approach Rt.		50										AS BUILT
	New 15" x 22' CMP												
2184+70	Construct Type III Approach Rt.												
2184+70	New 15" x 22' CMP												
2184+70	Construct Standard Roadside Service Lt.												
2184+70	New 15" x 22' CMP												
2184+70	Construct Type III Approach Rt.		50	15				30				2	
	New 24" x 30' CMP												
2185+79	Construct Type I-A Approach Lt.												
2185+79	Construct Standard Roadside Service Lt.												
2185+79	New 24" x 74' CMP							74				2	
2191+06	Construct Type I-A Approach Lt.												
2191+06	New 15" x 30' CMP												
2191+06	Construct Approach as shown on sheet 4												
12 2191+06	Construct Type 1-A Approach Rt.			50		62				2			
	Kalifonsky Beach Road												
	New 15" x 48' CMP					48				2			
2262+70	Construct Type III Approach Rt.												
2262+70	New 15" x 22' CMP												
2262+70	New 24" x 106' CMP	9		39				106'				2	
2263+44	Construct Type 1-A Approach Lt.												
2263+44	New 15" x 22' CMP												
16 2283+50	Construct Type III Approach Rt.			15		22				2			
	New 15" x 22' CMP												
2283+50	Construct Type III Approach Rt.												
2283+50	New 15" x 22' CMP												

F-021-1(9)

A-3 LT ENG. 444

LIST OF CULVERTS AND MISCELLANEOUS WORK

LIST OF CULVERTS AND MISCELLANEOUS WORK														STATE	ROUTE	SECTION	YEAR	SHEET	TOTAL SHEETS
														ALASKA	21	1	1960	41	55
STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Borrow C.Y.	Remove & Dispose of Existing Culvert			15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections			AS BUILT		
2291+48 2291+00	Construct Type III Approach Lt. New 15" x 22' CMP	2		15				22				2							
2293+56	18" x 39' CMP In Place Remove & Dispose				39														
2294+50	Construct Type III Approach Lt. 64'									64									
2293+56 2293+50	New 24" x 54' CMP New 24" x 54' CMP	39		23						2				2					
2301+77	Construct Type III Approach Rt. New 15" x 22' CMP		100					22				2							
2301+77	New 15" x 22' CMP	22		31						76				2					
7 2307+00	New 24" x 78' CMP New 24" x 78' CMP	22		31						76				2					
5+00 2307+30	Construct Type III Approach Rt. New 15" x 22' CMP			100				22				2							
2308+93	Construct Type III Approach Rt. New 15" x 34' CMP							34				2							
79 2311+70	Construct Type III Approaches Lt. & Rt. New 15" x 22' CMP Lt. New 15" x 18' CMP Rt.		250					26				2							
2315+08	Construct Type III Approach Rt	2						26				2							
74 2319+50	New 24" x 104' CMP New 24" x 100' CMP									100				2					SKEW 30° Rt. Ah.
77 2328+27	Construct Type III Approach Lt. New 15" x 22' CMP 50'	3	500	50				22				2							
29+97 2337+00	Construct Type III Approach Rt. New 15" x 22' CMP		200	20				26				2							
72 2350+00	New 96" x 98' Structural Plate Pipe 5% factory ellipses, ends beveled 3:1	13									98								Slikok Creek - Migratory fish stream, Pipe to be laid at average stream grade & the invert shall be installed a minimum of 6" below the stream bed.

F-021-1(9)

A-3 Lt ENG 04

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	ROUTE	SECTION	YEAR	SHEET	TOTAL SHEETS
ALASKA	21	1	1960	42	55

AS BUILT

STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Barrow C.Y.	Remove & Dispose of Existing Culvert	15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections	REMARKS
2365+00	Construct Type III Approach Lt. & Rt. New 15" x 22' CMP Lt. New 15" x 22' CMP Rt.	100	40			22				2			
2378+00	Construct Type III Approach Lt.							82				2	
2378+10	New 24" x 82' CMP Skew Rt. Ahead												
2378+31	Construct Type III Approach Rt. New 15" x 30' CMP					30				2			
2417+50	Construct Type I-A Approach Lt. New 18" x 60' CMP			300			60				2		
2413+00	Construct Type III Approach Rt. New 15" x 22' CMP					22				2			
2418+50	New 24" x 102' CMP	33		37				102				2	
2435+30	Construct Type III Approach Lt. New 15" x 22' CMP					22				2			
2442+00	Construct Type III Approach Lt. New 15" x 22' CMP			75		22				2			
2445+00													
2445+40	New 24" x 60' CMP	23		23				60				2	
2445+57	Construct Type III Approach Rt. New 15" x 22' CMP					22				2			
2447+00	Construct Type III Approach Lt. New 15" x 22' CMP	5		85		22				2			
	Construct Access Road as directed by the engineer		100		60								
2458+00	21" x 60' CMP in place Remove & Dispose				60								
	New 24" x 88' CMP	24		36				88				2	
2461+38	24" x 58' CMP in place Remove & Dispose				58								
	New 24" x 100' CMP	33		40				100				2	
2467+05	36" x 41' CMP in place Remove & Dispose				41								
2467+50	New 24" x 88' CMP	57		36				88				2	

Exception

See preceding sheet

Exception

See next sheet

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	1960	43	55

STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Borrow C.Y.	Remove & Dispose of Existing Culvert	15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections	REMARKS
2488/00	18" x 40' CMP in place Remove & Dispose				10								
2489/00	New 24" x 54' CMP	30		23				54				2	
2493/00	Construct Type III Approach Lt. New 15" x 22' CMP		20	15		22				2			
2498/00	Construct Type III Approach Rt. New 15" x 40' CMP			100		10				2			
2499/00	New 24" x 46' CMP	32		20				46				2	
2503/50	Construct Type II Approach Rt. New 15" x 60' CMP			30		60				2			
2511/00	New 24" x 64' CMP	20		26				64				2	
2518/00	New 24" x 82' CMP	26		31				82				2	
2514/00	Construct Type II Approach Rt.			15									
2550/92	15" x 60' CMP In Place Remove & Dispose				60								

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE ALASKA ROUTE 21 SECTION 1 YEAR 1960 SHEET NO 44 TOTAL SHEETS 55

Exception, See Sheet 42

2588+00

STATION	DESCRIPTION	Structural Excavation C.V.	Unclassified Excavation C.V.	Borrow C.V.	Remove & Dispose of Existing Culvert	15" C.M.P.	18" C.M.P.	24" C.M.P.	36" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections	REMARKS
2562+00	New 24" x 60' CMP	42		26				60				2	
2566+00	Construct Type III Approach Rt. New 15" x 22' CMP	3		20		22				2			
2572+00	Construct Type III Approach Rt. New 15" x 22' CMP	3		15		22				2			
2576+08	18" x 36' CMP In Place. Remove and Dispose				36								
2577+00	New 24" x 50' CMP	33		22				50				2	
2583+75	Construct Type III Approach Rt. New 15" x 22' CMP	3		15		22				2			
2595+00	Construct Type III Approach Rt. New 15" x 22' CMP 36'			15		36				2			
2597+00	New 24" x 122' CMP Approach Rt. & Lt. New 15" x 22' CMP Rt. New 15" x 22' CMP Lt.	25		10				122'				2	Skew 30° Rt. Ahead
2598+85	Construct Type III Approach Rt. & Lt. New 15" x 22' CMP Rt. New 15" x 22' CMP Lt.		15	5		22				2			
2623+54	Construct Type III Approach Lt. New 15" x 22' CMP 38'			50		38				2			
2632+00	30" x 22' CMP In Place Remove & Dispose												
2638+00	New 24" x 100' CMP	128		39				100				2	
2638+00	30" x 58' CMP In Place Remove & Dispose				58								

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Borrow C.Y.	Remove & Dispose of Existing Culvert			15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe		15" End Sections	18" End Sections	24" End Sections			REMARKS
2639+10	Construct Type III Approach Rt. New 15" x 28' CMP							28					2					AS BUILT
2649+22	Construct Type III Approach Lt.																	
2661+96	Construct Type III Approach Rt. New 15" x 72' CMP							72					2					
2677+50	New 24" x 64' CMP									64					2			
2716+15	60" x 42" x 39' CMPA In Place. Remove & Dispose				39													
2717+36	36" x 40' CMP In Place Remove & Dispose				40													
2717+50	36" x 42' CMP In Place, Remove & Dispose				42													
2716+78	New 96" x 90' Structural Plate Pipe 5 1/2 factory ellipsed, bevel ends 2 1/2:1	72		90							80							COAL CREEK
2719+50	Construct Type III Approach Rt. New 15" x 22' CMP		20	10				22					2					
2724+27	12" x 36' CMP In Place Remove & Dispose				36													
2728+62	Construct Type III Approach Rt. New 15" x 22' CMP		150	20				22					2					
2757+62	Construct Type III Approach Rt. New 15" x 22' CMP			20				22					2					
2757+71	Construct Type III Approach Lt.																	
2774+78	Construct Type 1-A Approach Lt. & Rt. New 15" x 42' CMP Lt.		15	20				42					2					

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATION	DESCRIPTION	Structural Excavation C.Y.	Unclassified Excavation C.Y.	Borrow C.Y.	Remove & Dispose of Existing Culvert	15" C.M.P.	18" C.M.P.	24" C.M.P.	96" Structural Plate Pipe	15" End Sections	18" End Sections	24" End Sections	REMARKS
25 2777/66	New 24" x 66' CMP	25		29				66 66				2	
50 2782/66	New 24" x 94' CMP	28		28				94				2	
50 2797/66	New 24" x 102' CMP	19		38				102 98				2	
2840/00	New 24" x 62' CMP	24		27				62 62				2	
2840+27	Construct Type III Approach Lt. New 15"x33' CMP					33				2			
2841+41	Construct Type III Approach Lt. New 15"x33' CMP					33				2			
67 2841/67	Construct Type I-A Approach Lt. & Rt. New 15" x 38' CMP Lt.			50		38 38				2			
32 2850/66	Construct Type III Approach Rt. Construct Access Road as directed by the engineer New 15" x 22' CMP	100		100		22 22				2			
2850+67	Construct Type III Approach Lt. New 15"x34' CMP					34				2			
2859/60	Construct Type III Approach Lt. & Rt. New 15" x 34' CMP Lt. New 15" x 34' CMP Rt.			50 50		34 34				2 2			
2860+05	Construct Type III Approach Lt. New 15"x32' CMP					32				2			
Totals		777	1870	2159	549	1090	60	1602	172	78	2	42	
Contract Quantities						1098							

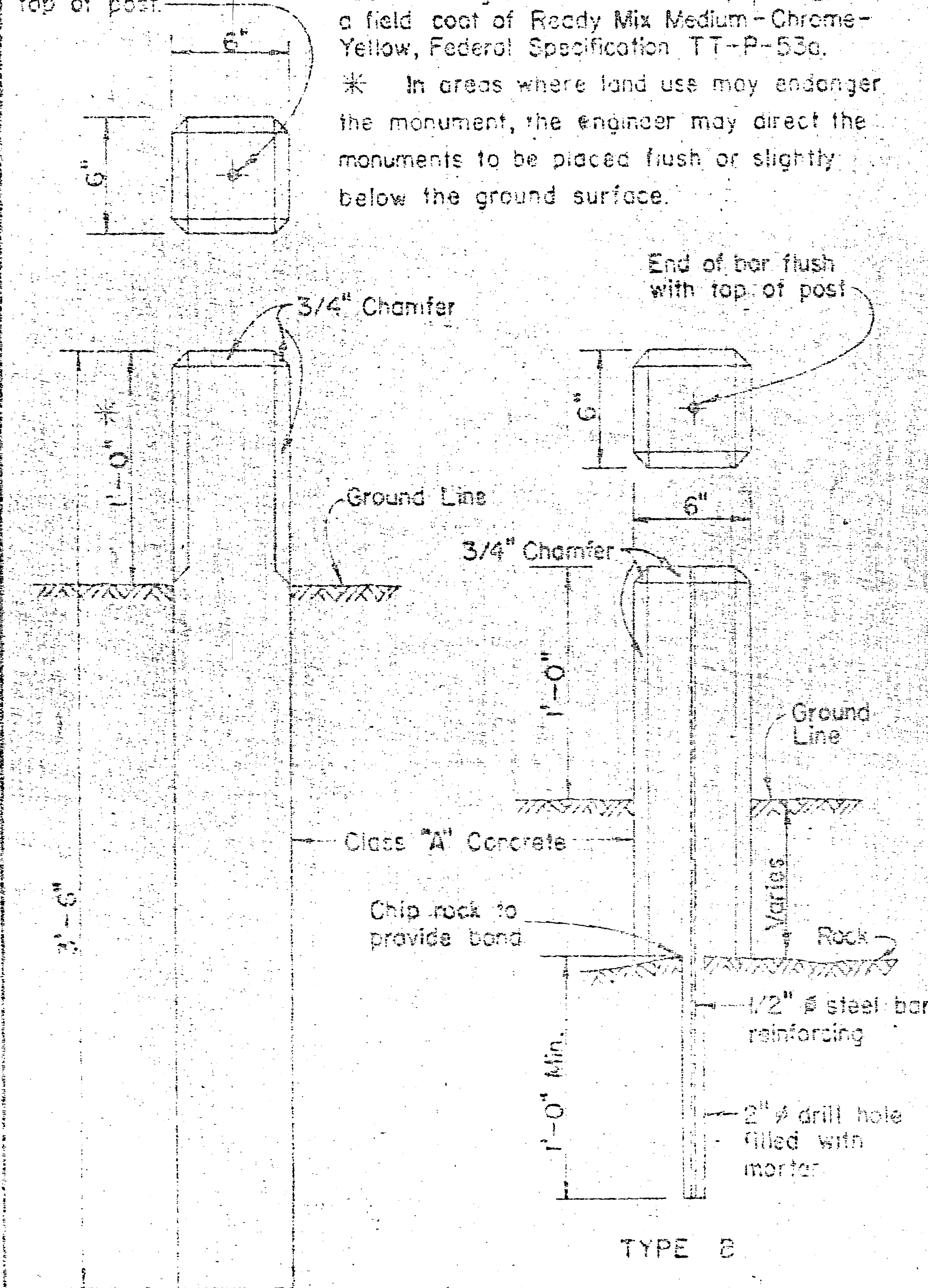
GENERAL NOTES

When solid rock is encountered the contractor shall have the option of furnishing either Type A or Type B monuments.

The portion of the monument projecting above the ground line shall be painted with a field coat of Ready Mix Medium-Chrome-Yellow, Federal Specification TT-P-53a.

* In areas where land use may endanger the monument, the engineer may direct the monuments to be placed flush or slightly below the ground surface.

3/16" copper wire 6" long cut flush with top of post.



TYPE A

TYPE B

RIGHT-OF-WAY MONUMENT

STANDARD CONCRETE RIGHT-OF-WAY MONUMENT

STATE	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	53	55

SUMMARY OF RIGHT-OF-WAY MONUMENTS

STATION	Dist. from C in ft	NO.	REMARKS	STATION	Dist. from C in ft	NO.	REMARKS
	Left	Right			Left	Right	
2183+50	68	132	2		2347+00	80	132
2186+27.2	68	132	2		2352+00	80	132
2190+00		132	1		2357+00	80	132
2190+54.2	68		1		2362+00	80	132
2192+00		132	1		2375+10	68	132
2195+00	68	132	2		2380+00	68	132
2200+00	68	132	2		2385+00	68	132
2205+00	68	132	2		2390+00	68	132
2210+00	68	132	2		2395+77.7	68	132
2215+00	68	132	2		2397+00	68	132
2220+00	68	132	4	150' Lt. & 200' Rt.	2401+44.7	80	132
2225+00	150	200	2		2406+00	80	132
2230+00	150	200	2		2411+00	80	132
2233+00	100	132	4	150' Lt. & 200' Rt.	2416+00	80	132
2238+00	100	132	2		2420+00	68	132
2243+00	100	132	2		2425+00	68	132
2248+00	100	132	2		2431+49.7	68	132
2253+00	100	132	2		2437+00	68	132
2257+10	100	132	2		2442+00	68	132
2262+00	100	132	2		2447+00	68	132
2267+00	100	132	2		2452+00	80	132
2272+50.8	68	132	3	100' Lt.	2457+00	80	132
2277+00	68	132	2		2460+00	80	132
2282+00	68	132	2		2465+00	100	132
2287+00	68	132	2		2470+00	68	132
2292+00	68	132	2		2475+00	68	132
2297+39.2	68	132	3	100' Lt.	2479+56.9	68	132
2303+31.7	68	132	3	100' Lt.	2485+00	68	132
2308+00	68	132	2		2491+76.9	68	132
2314+30	68	132	3	80' Lt.	2497+91.0	68	132
2319+00	80	132	2		2503+00	68	132
2325+00	80	132	3	100' Lt.	2508+33.5	68	132
2329+98.5	80	132	3	100' Lt.	2510+00	68	132
2337+00	80	132	2		2515+00	100	132
2342+00	80	132	2				

SUMMARY OF RIGHT-OF-WAY MONUMENTS

STATION	Dist. from C. in ft.		NO.	REMARKS	STATION	Dist. from C. in ft.		NO.	REMARKS	STATION	Dist. from C. in ft.		NO.	REMARKS
	LEFT	RIGHT				LEFT	RIGHT				LEFT	RIGHT		
2519+00	68	132	3	100' Lt.	2685+00	68	132	2		2853+00	68	132	3	160' Lt.
2524+00	68	132	2		2690+00	68	132	2		2855+00	160	132	3	150' Rt.
2529+00	68	132	2		2694+16.1	68	132	2		2860+00	160	132	3	150' Rt.
2534+00	68	132	2		2700+00	68	132	2		2861+20	160	132	2	
2539+49.8	68	132	2		2709+00	68	132	2		2857+00	100	132	3	160' Lt.
2545+00	68	132	2		2714+00	68	132	2		2860+94.6	100	132	2	
2550+00	68	132	2		2719+00	68	132	2						
2554+49.8	68	132	2		2721+22.6	68	132	2		TOTAL			4	
2560+00	68	132	2		2726+00	68	132	2					315	
2565+00	68	132	2		2729+64.8	68	132	2		NOTE: LOCATION OF MONUMENTS SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.				
2570+00	68	132	2		2735+00	68	132	2						
2575+00	68	132	2		2740+00	68	132	2						
2579+85.7	68	132	2		2744+22.9	68	132	2						
2585+00	68	132	2		2750+00	68	132	3	80' Lt.					
2587+21.5	68	132	2		2755+24.6	80	132	2						
2592+00	68	132	2		2760+00	80	132	2						
2598+46	68	132	2		2765+00	68	132	3	80' Lt.					
2603+00	68	132	2		2766+31	68	132	2						
2608+00	68	132	2		2771+00	68	132	2						
2613+78.8	68	132	2		2777+91.0	68	132	2						
2617+59.7	68	132	2		2780+00	68	132	3	80' Lt.					
2622+00	68	132	2		2785+00	80	132	2						
2627+00	68	132	2		2790+00	80	132	2						
2632+71.9	68	132	2		2795+00	80	132	2						
2639+00	68	132	2		2800+00	80	132	2						
2644+00	68	132	2		2803+00	68	132	3	80' Lt.					
2651+00	68	132	3	100' Lt.	2808+00	68	132	2						
2653+00	100	132	3	150' Rt.	2813+00	68	132	2						
2658+00	100	132	3	150' Rt.	2820+00	68	132	3	100' Lt.					
2661+26.1	100	132	2		2826+00	80	132	3	100' Lt.					
2665+00	68	132	3	100' Lt.	2831+00	80	132	2						
2670+00	68	132	2		2835+00	68	132	3	80' Lt.					
2675+00	68	132	2		2840+00	68	132	2						
2680+00	68	132	2		2846+41.1	68	132	2						

STATE	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
ALASKA	21	1	55	55

SUMMARY OF STANDARD SIGNS

STATION	Dist. from C. in ft.		NO.	TYPE OF SIGN	STATION	Dist. from C. in ft.		NO.	TYPE OF SIGN	STATION	Dist. from C. in ft.		NO.	TYPE OF SIGN
	LEFT	RIGHT				LEFT	RIGHT				LEFT	RIGHT		
2185/00		24	W-2	Curve Sign	2837/50		24	W-6	Crossroad Sign					
2187/00	24		W-22	Narrow Bridge	2841/85		30	R-1	Stop Sign					
		24	W-6	Crossroad Sign		30		R-1	Stop Sign					
2190/80	40		R-1	Stop Sign	2846/00	24		W-6	Crossroad Sign					
2191/20		40	R-1	Stop Sign	2857/00		24	W-22	Narrow Bridge					
2194/00	300		W-13	Stop Ahead Sign										
2194/95	24		W-2	Curve Sign										
2195/00	24		W-6	Crossroad Sign										
2328/35	40		R-1	Stop Sign										
2334/00	24		W-7	Side Road Sign										
2417/00	40		R-1	Stop Sign										
2421/50	24		W-7	Side Road Sign										
2499/50		24	W-7	Side Road Sign										
2503/75		40	R-1	Stop Sign										
2540/00		24	W-7	Side Road Sign										
2544/00		40	R-1	Stop Sign										
2745/50		24	W-7	Side Road Sign										
2752/70		30	R-1	Stop Sign										
2771/50		24	W-6	Crossroad Sign										
2775/25		30	R-1	Stop Sign										
2775/30	30		R-1	Stop Sign										
2779/50	24		W-6	Crossroad Sign										
				TOTAL					27 SIGES					