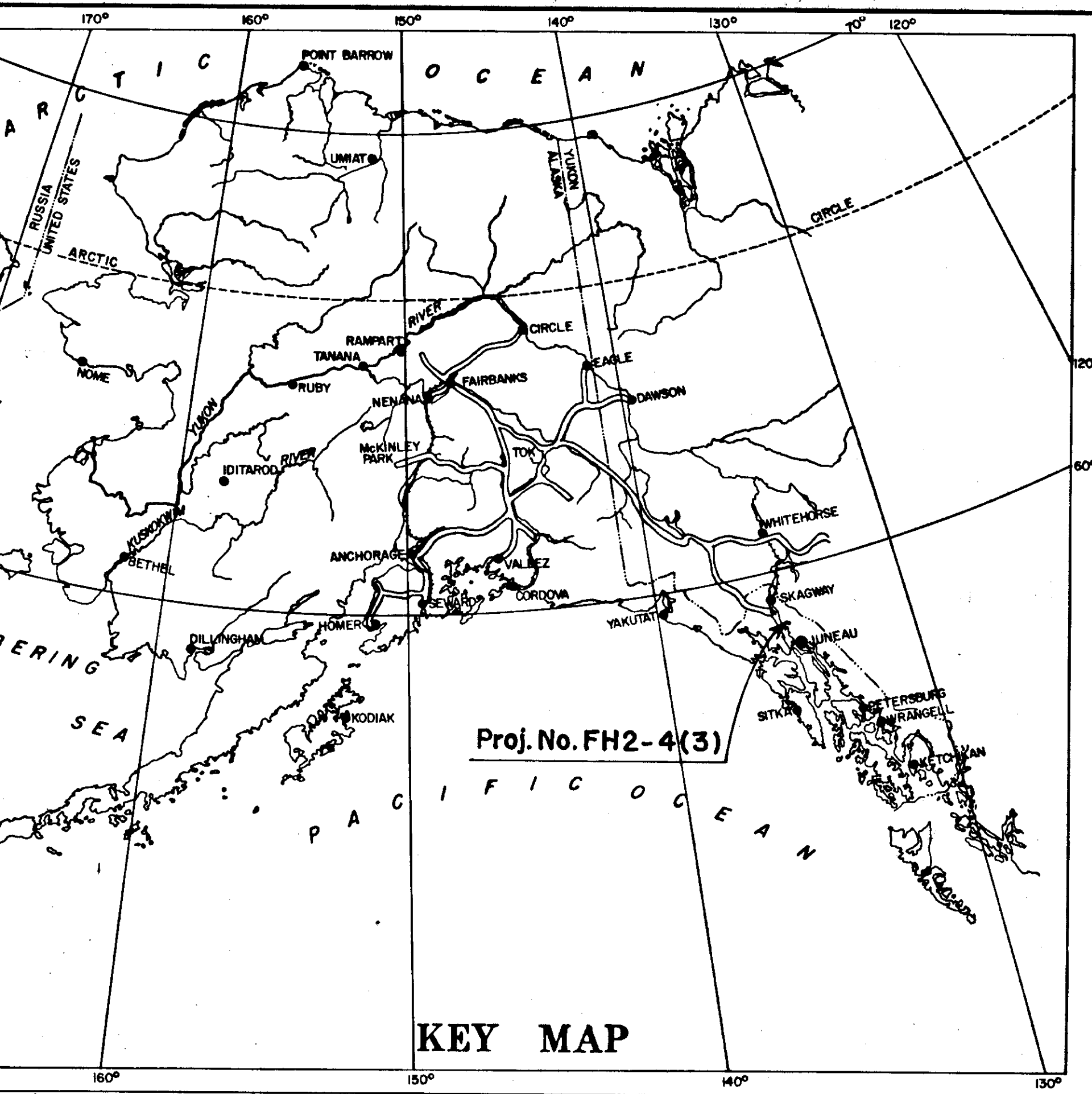




U.S. DEPARTMENT OF TRANSPORTATION BUREAU OF PUBLIC ROADS REGION 8

PLAN AND PROFILE PROPOSED HIGHWAY PROJECT

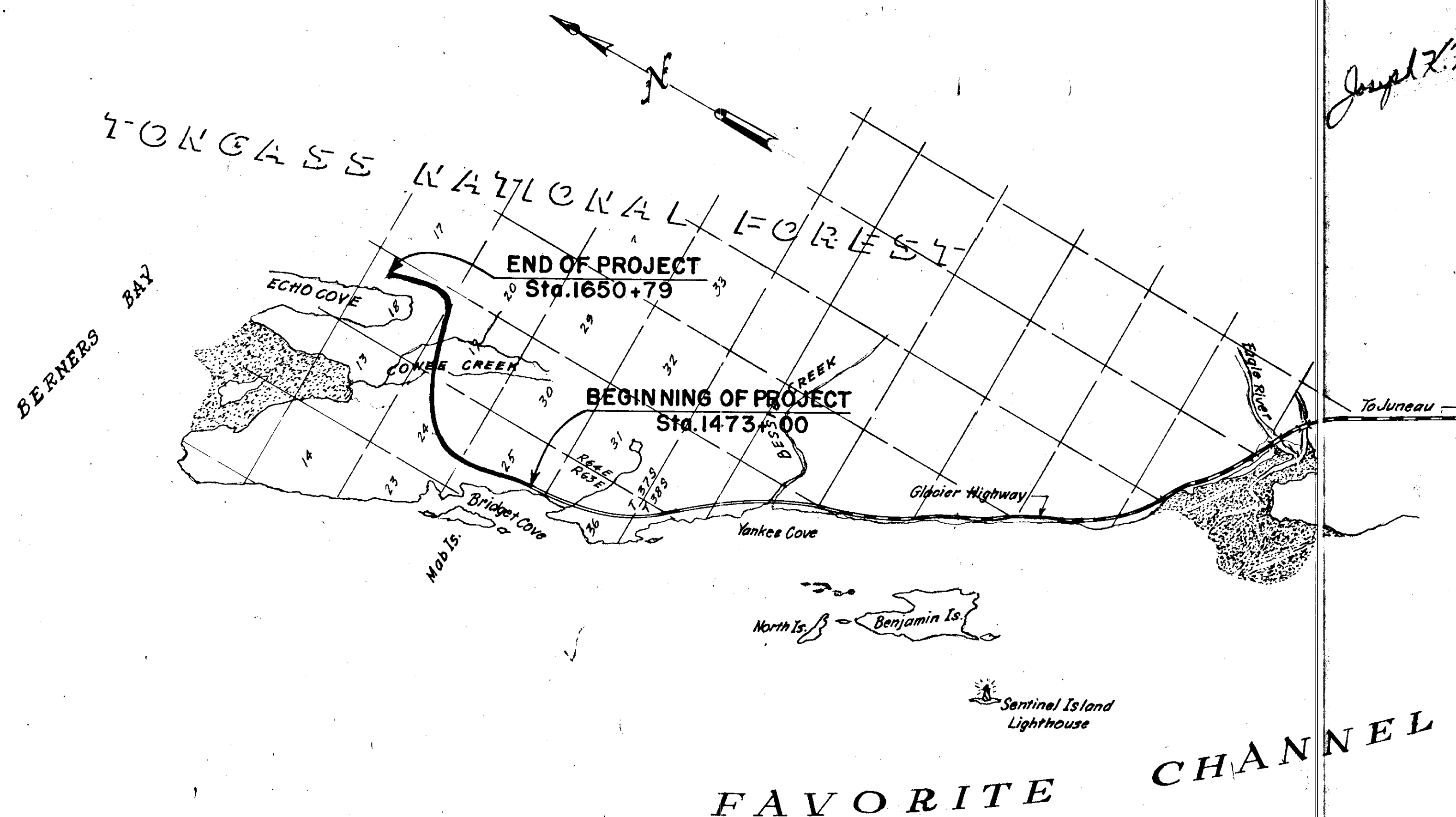
PROJECT NO. FH2-4(3)
BRIDGET COVE TO ECHO COVE
GLACIER HIGHWAY
GRADING, DRAINAGE & BRIDGE
ALASKA FOREST HIGHWAY
TONGASS NATIONAL FOREST
ALASKA

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 2	4	1970	1	24

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTION & ESTIMATE OF QUANTITIES
3-5	CULVERT PIPE SUMMARY
6-11	PLAN & PROFILE SHEETS
12	PARKING AREAS
13	INTERSECTION LAYOUT
14	TURNOUT & TURNAROUND
15	MATERIALS SITE MAP
16-19	BRIDGE PLANS
20	SUMMARY OF R.O.W. MONUMENTS
21	STANDARD METAL END SECTIONS
22	STANDARD BEAM TYPE GUARD-RAIL
23	STANDARD DEAD END SIGN
24	STANDARD IDENTIFICATION SIGN

missing - not included by app. 11/1/71



Joseph L. Hargrett 10-28-71

PROJECT SUMMARY

Width of Subgrade	28 Ft.
Length of Grading	17,586.84 Ft. = 3.331 Mi.
Length of Bridge	192.16 Ft. = 0.036 Mi.
Length of Project	17,779 Ft. = 3.367 Mi.

BRIDGET COVE TO ECHO COVE

ADT (1970) = 0
ADT (1990) = 1650
DHV 30% = 495
D = 70% - 30%
T = 10%
V = 50 M.P.H.

CONVENTIONAL SIGNS

SECTION LINE	---
CULVERT	---
R.O.W. MONUMENTS	•
"P" LINE	---
LINE TO BE CONSTRUCTED	---
MILE POST	---
RIGHT OF WAY LINE	---
PAVEMENT	---
UNDER CONSTRUCTION	---
TOE OF FILL SLOPE	---
TOP OF CUT SLOPE	---

APPROVED

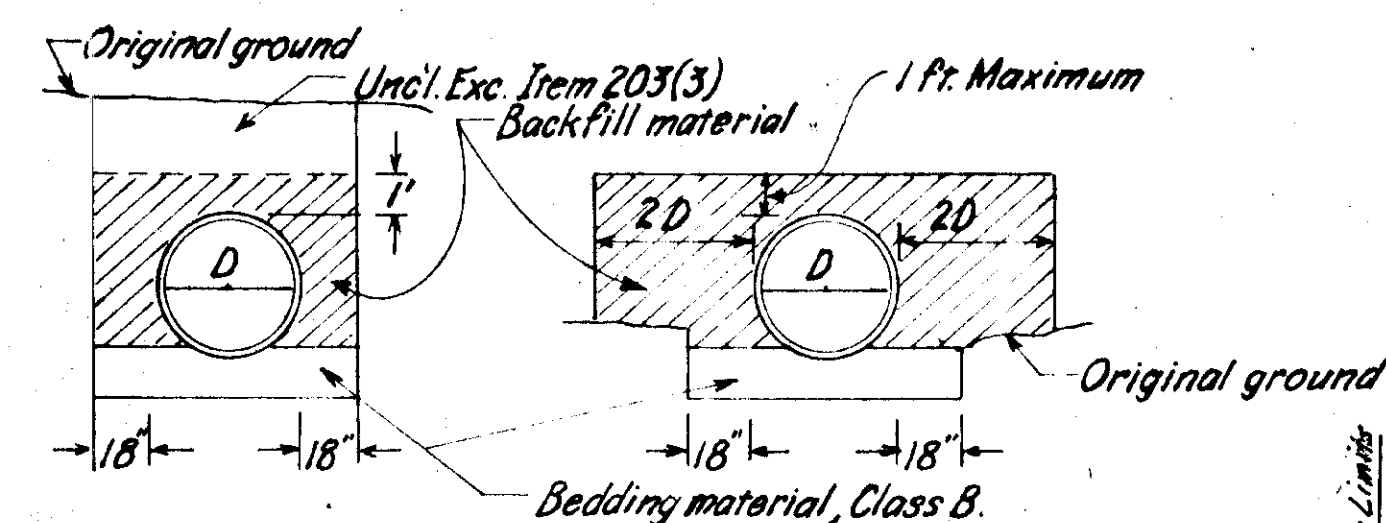
[Signature] Date 8/1/70
FOR REGIONAL ADMINISTRATOR

GENERAL NOTES

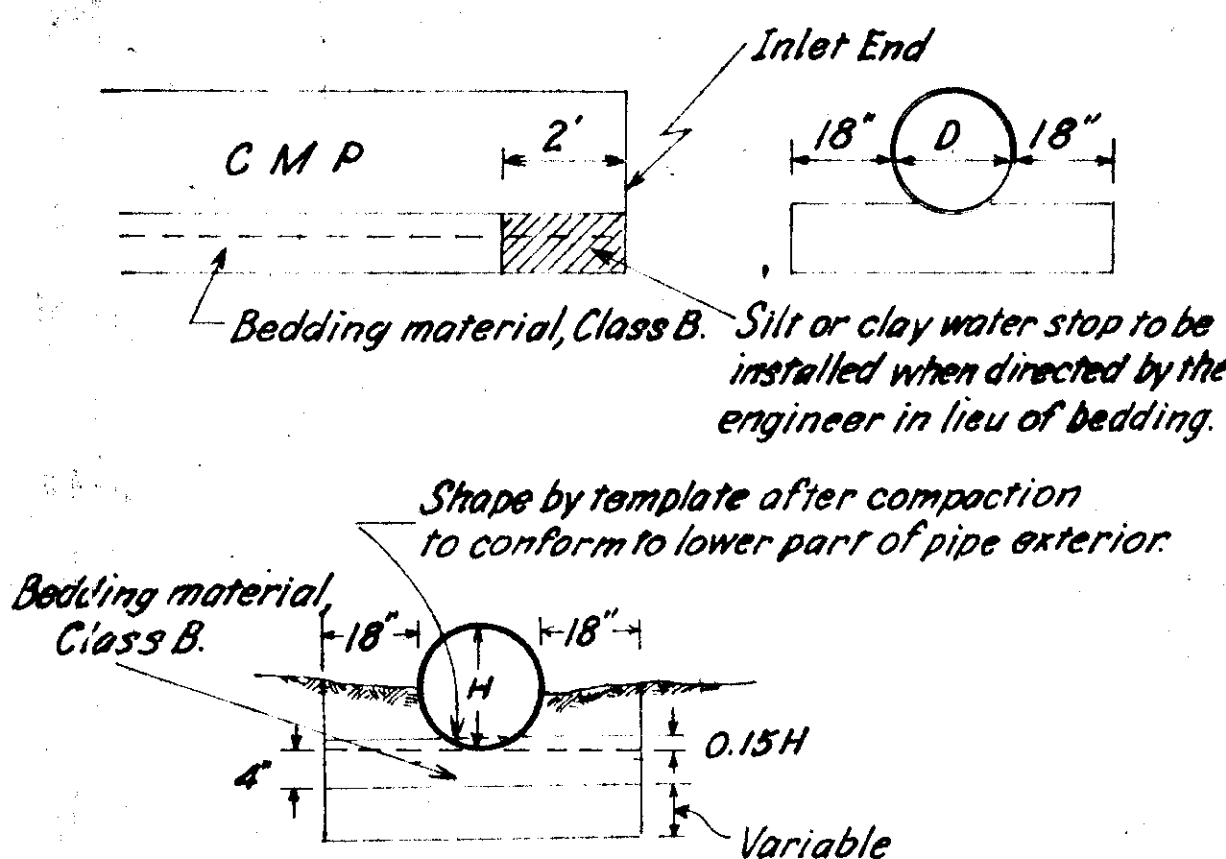
- The culvert lengths as shown are approximate only.
- The grades and alignment shown on these plans are subject to minor revisions.
- When unsuitable unclassified excavation is encountered, it shall be immediately hauled to disposal areas shown on the plans. No direct payment will be made for this work except payment under Item 203(3) for excavating the material.
- Slope rounding will not be required.
- The grades will be carried on the shoulder on tangent and on the inside shoulder of curves, both 19 ft. from centerline.
- Superelevation on all curves shall be as staked by the engineer. Maximum superelevation shall be 0.06 ft. per foot.
- All authorized excavation for culvert inlet and outlet ditches and channel changes will be paid for under Item 203(3), except as noted on Sheet No. 10 of these plans.
- All curves over 4" shall be widened as staked by the engineer. Curve widening and guardrail widening are accumulative.
- Grubbing of all rock cuts and quarries will be required prior to blasting.
- Approximately one foot of waste material shall be spread over the slopes of rock embankments to form a seed bed. Payment for this work is included under Item 625 (2).

SLOPE TABLES			
HEIGHT OR DEPTH	FILLS	CUTS	
		ROCK	EARTH
0'-4'	4:1	1:1	4:1
4'-10'	2:1	1/2:1-1/4:1	2:1
10'-15'	1 1/2:1	1/2:1-1/4:1	1 1/2:1
Over 15'	1 1/2:1**	1/2:1-1/4:1	1:1*

Note: The table above is a guide only, slopes may be varied to meet field conditions at the direction of the engineer.
* May be staked flatter ** May be staked 1 1/3:1 for rock fill.



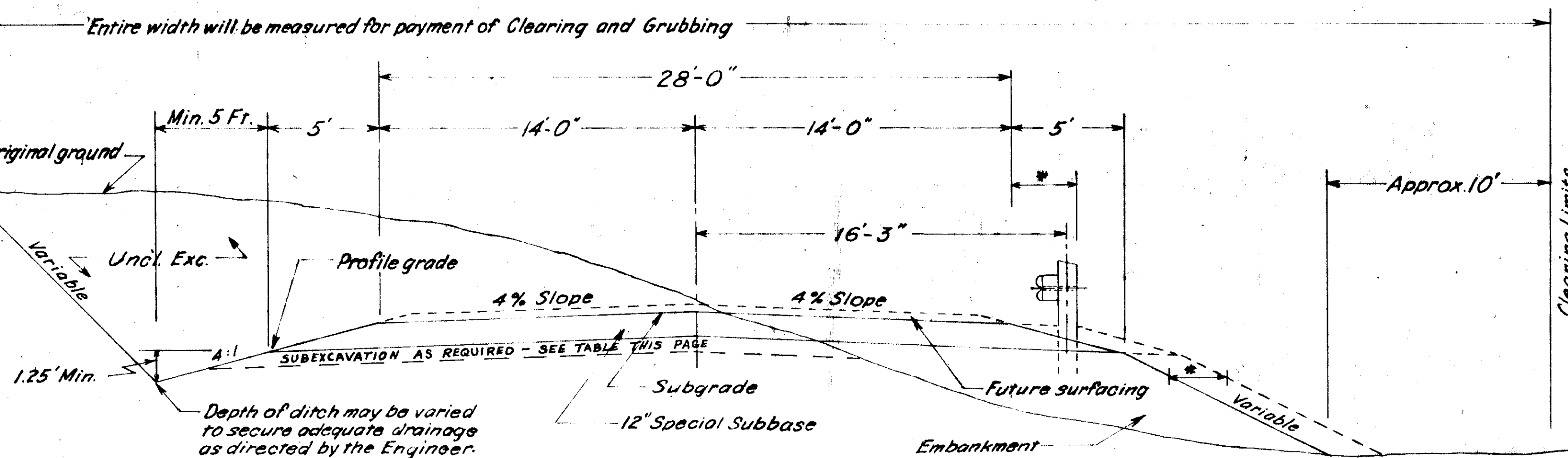
TYPICAL SECTIONS BACKFILL FOR PIPE CULVERTS



TYPICAL SECTION ROCK EMBANKMENT WITH FLATTENED SIDE SLOPES.

Approximate stations 1473+50 to 1474+00; 1480+50 to 1486+00; 1515+50 to 1516+50; 1522+50 to 1532+00 and 1572+44 to 1587+93.

TYPICAL SECTION OF IMPROVEMENT



* Widen 2.5' for Guardrail

SUMMARY of STANDARD SIGNS

Station	DIST. FROM LT. RT.	Sign No.	Type of Sign
1614+60	29'	RI-1	STOP
1615+15	29'	RI-1	STOP

BEAM-TYPE GUARDRAIL

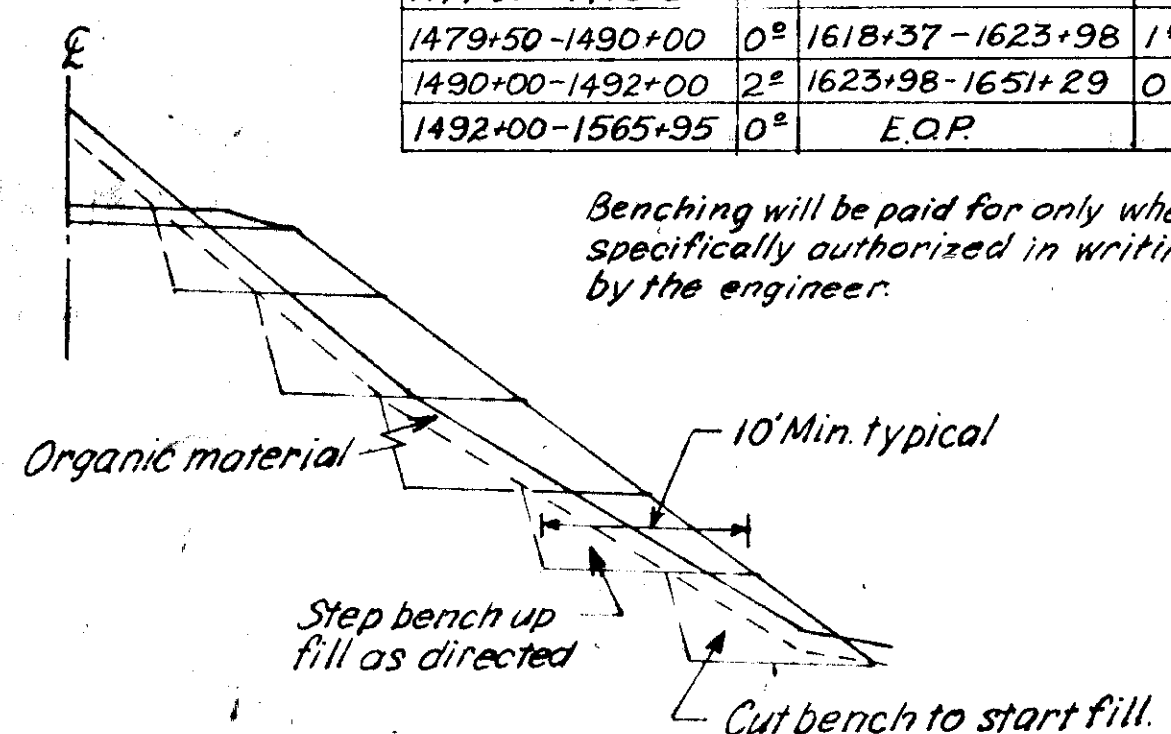
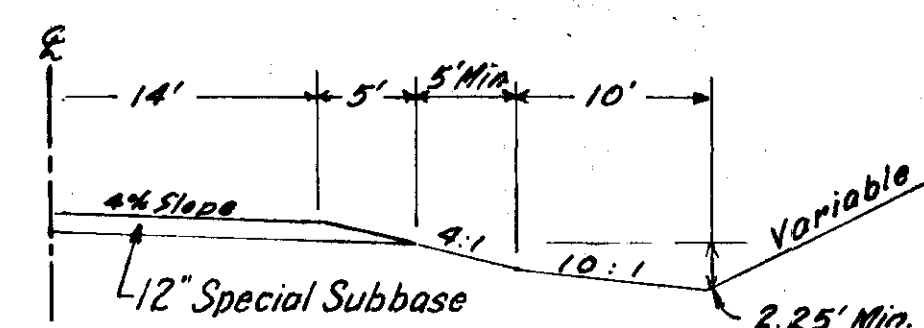
APPROACHES TO BRIDGE	338.1 LIN. FT.
1648+66 to 1650+78 LT.	202.8 LIN. FT.
1650+78*	88.6 LIN. FT.
* BARRIER AT END OF PROJ. SEE SHEET No. 14.	

AREAS of SUBEXCAVATION

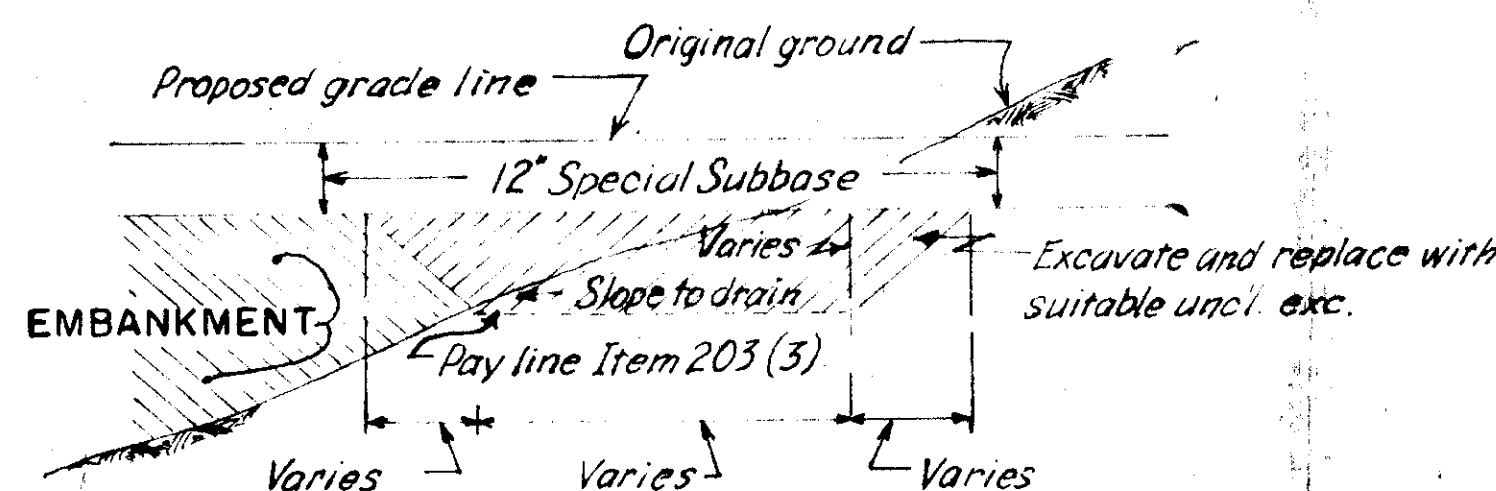
Sta. to Sta.	Dist.	Sta. to Sta.	Dist.
1473+00 - 1474+00	0'	1565+95 - 1572+44	19'
1474+00 - 1479+50	15'	1572+44 - 1618+37	0'
1479+50 - 1490+00	0'	1618+37 - 1623+98	14'
1490+00 - 1492+00	2'	1623+98 - 1651+29	0'
1492+00 - 1565+95	0'	E.Q.P.	

TYPICAL SECTION SPECIAL DITCH SECTION

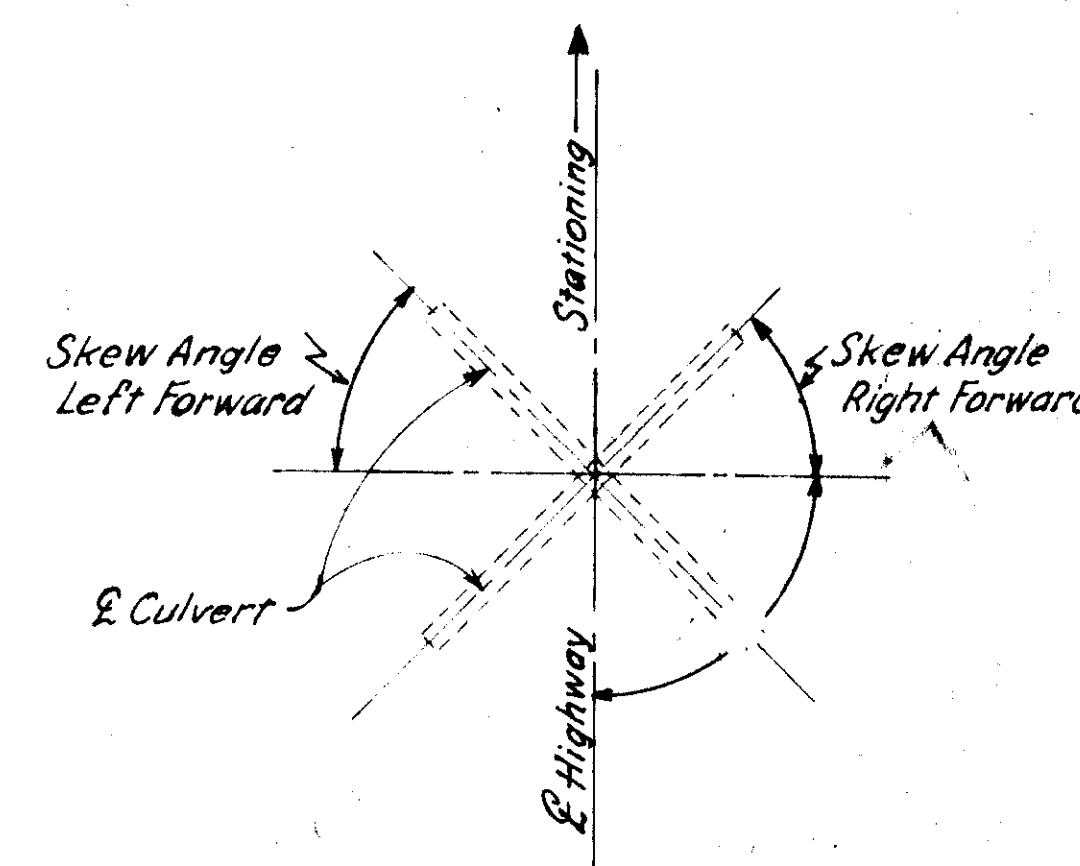
Sta. 1623+16 to Sta. 1625+50



TYPICAL SECTION FOR SIDEHILL BENCHING



CUT AND FILL TRANSITION



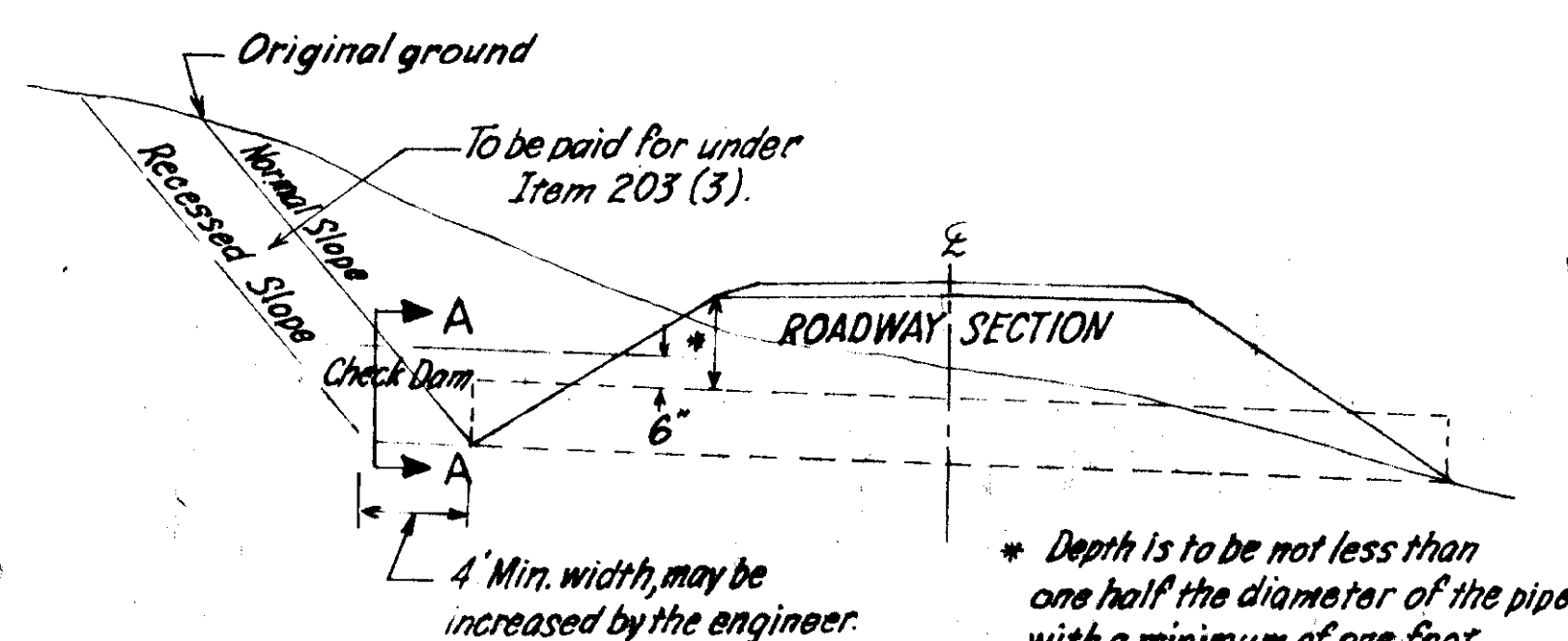
SKIEW ANGLE

ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
10	All Reqd.	C.S.	Miscellaneous Force Account
201 (1)	46.00	Acre	Clearing & Grubbing
201 (2)	450	Sq. Ft.	Individual Removal of Trees
203 (3)	83,000	Cu. Yds.	Unclassified Excavation
203 (5)	200,000	Cu. Yds.	Borrow Excavation, Case 1
206 (1)	1,100	Cu. Yds.	Excavation for Structures
212 (1)	25,000	Cu. Yds.	Special Subbase
* 600A (19)	2	Each	Test Piles, Item 600A (21), Furnished & driven
600A (21)	1280	Lin. Ft.	Concrete Piles Cast in steel shells, furnished in place.
600A (24)	4	Each	Splices
600A (28)	22	Each	Steel Pile Shells, Driven
601 (8)	All Reqd.	Lump Sum	Structural Concrete, Class A.
602 (1)	113,790	Pound	Reinforcing Steel
603 (26)	3,534	Lin. Ft.	24" Corrugated Steel Pipe
603 (21)	246	Lin. Ft.	36" Corrugated Steel Pipe
603 (2K)	246	Lin. Ft.	48" Corrugated Steel Pipe
603 (2M)	82	Lin. Ft.	60" Corrugated Steel Pipe
603 (46)	75	Each	24" Corrugated Steel End Section
603 (41)	8	Each	36" Corrugated Steel End Section
603 (4K)	2	Each	48" Corrugated Steel End Section
603 (29)	611	Cu. Yd.	Pipe Bedding Material, Class B
606 (5)	625	Lin. Ft.	Galvanized Beam-type Guardrail
606 (6)	5	Each	End Anchorages
612 (2)	378	Lin. Ft.	Steel Bridge Railing
619 (1)	1,200	Cu. Yd.	Loose Riprap
623 (1)	50	Each	Right-Of-Way Monuments
625 (2)	792	1000 Sq. Ft.	Turf Establishment
632 (1)	2	Each	Standard Signs
* 213 (1)	All Reqd.	C. S.	Emergency Erosion & Pollution Control

TYPICAL SECTIONS

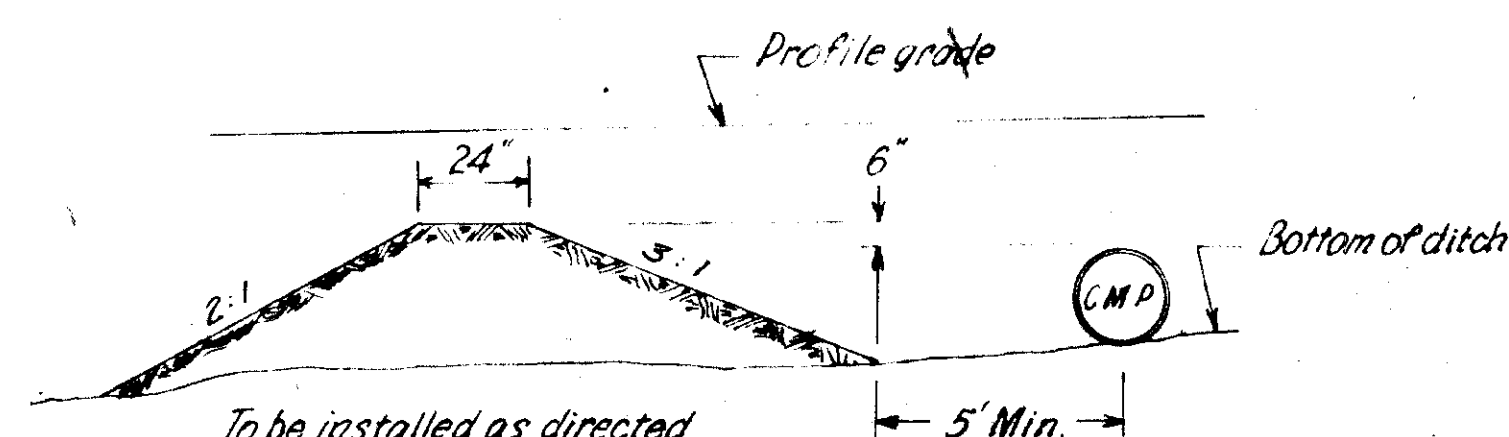
SHOWING BEDDING DETAILS FOR CULVERTS



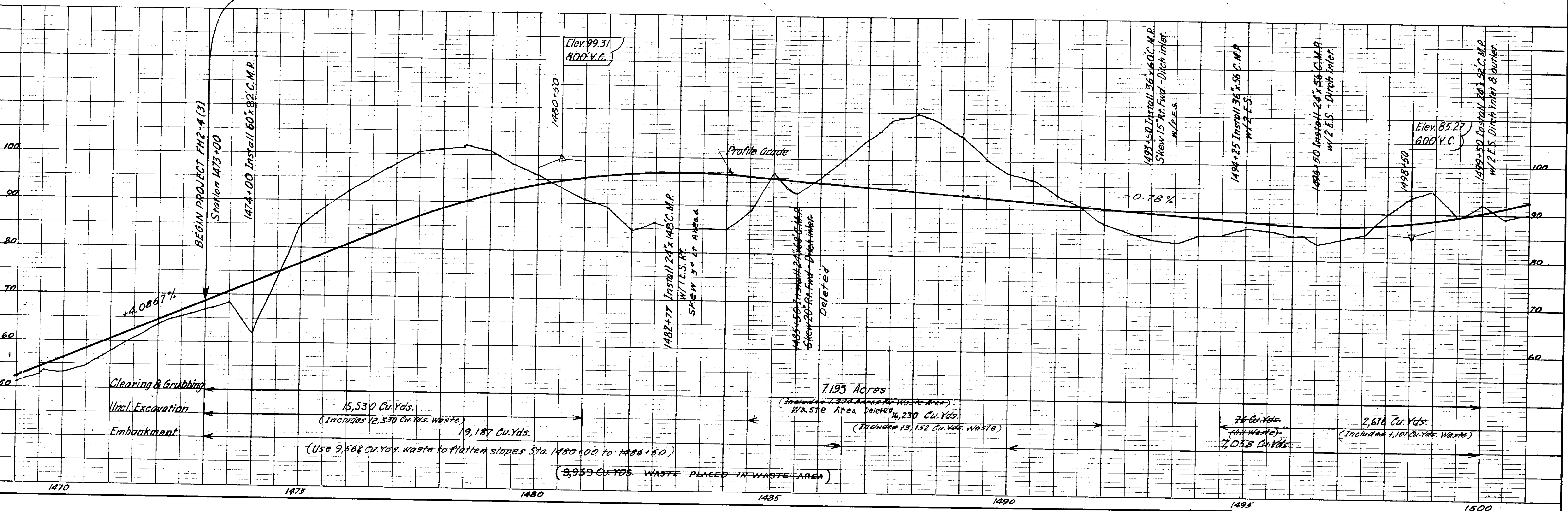
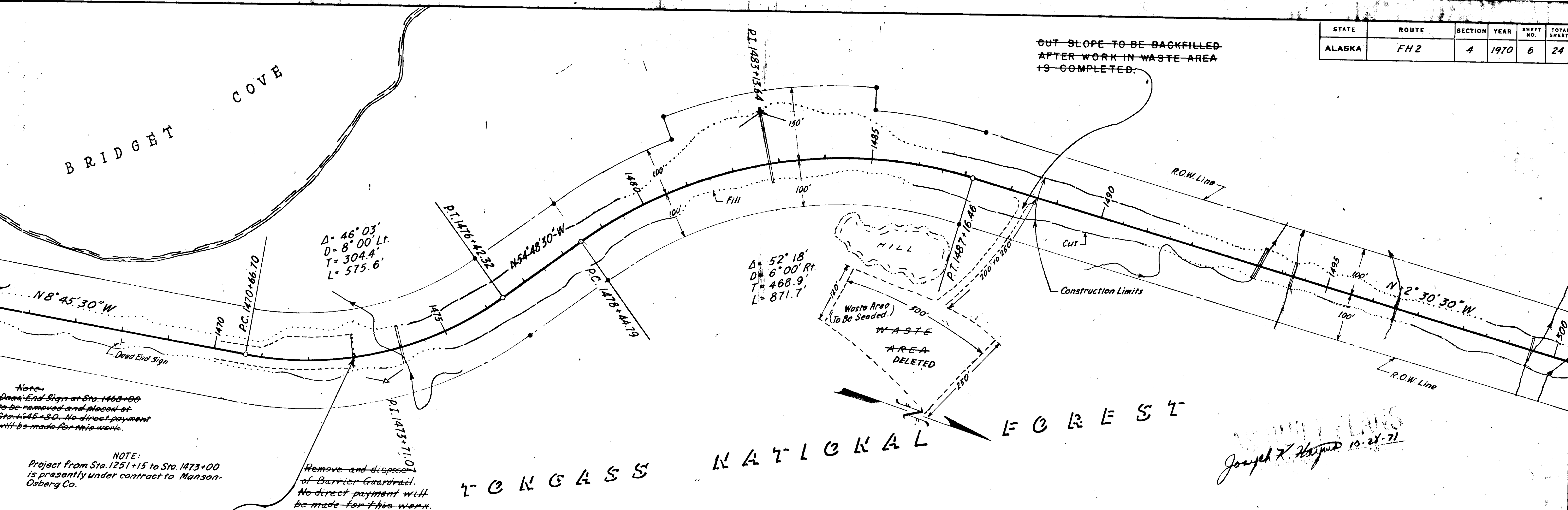
SIDEHILL INLET DETAIL

SECTION A-A CHECK DAM

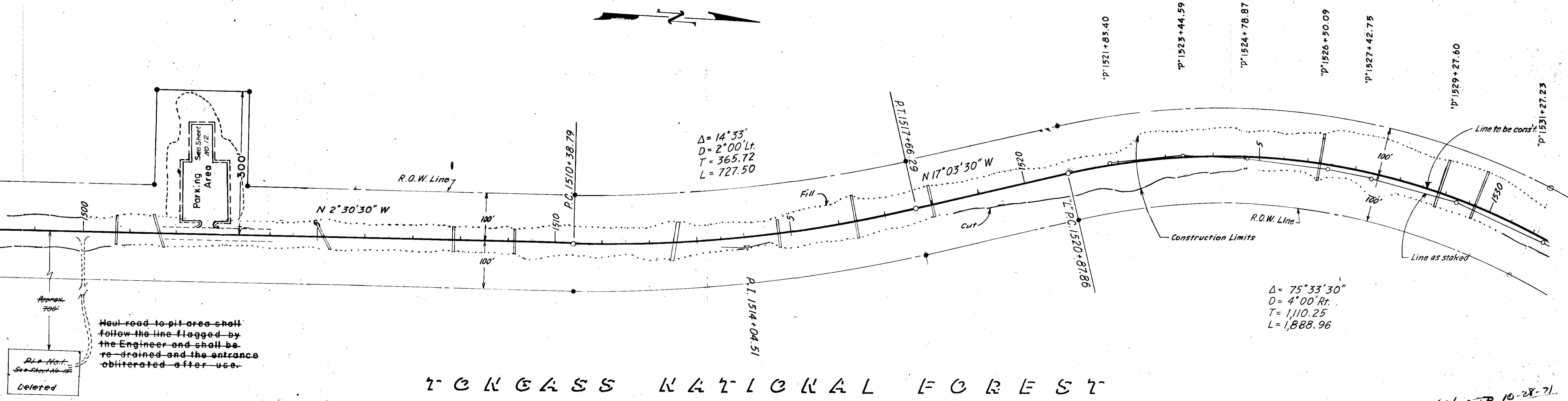
To be installed as directed by the engineer.



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	6	24

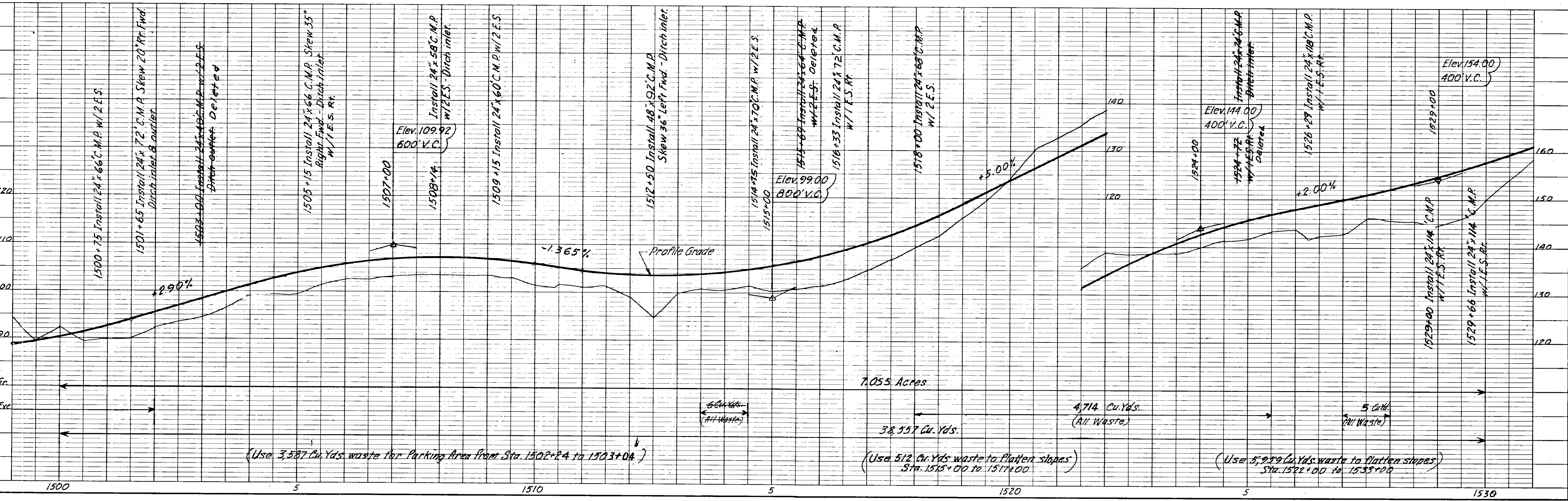


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	7	24

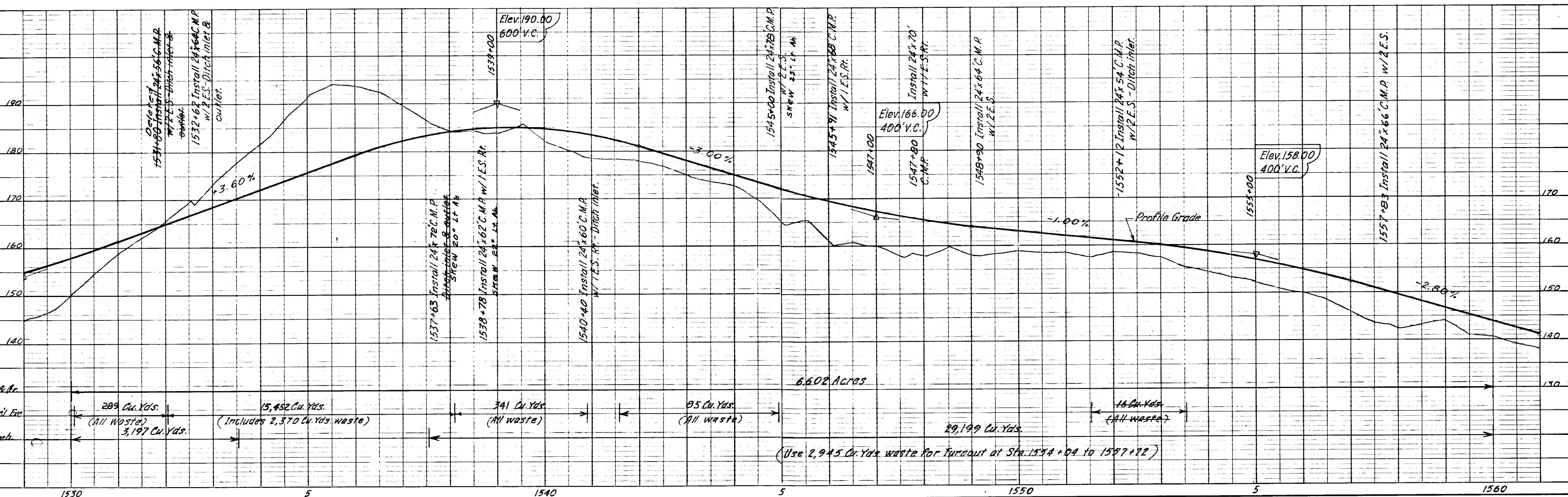
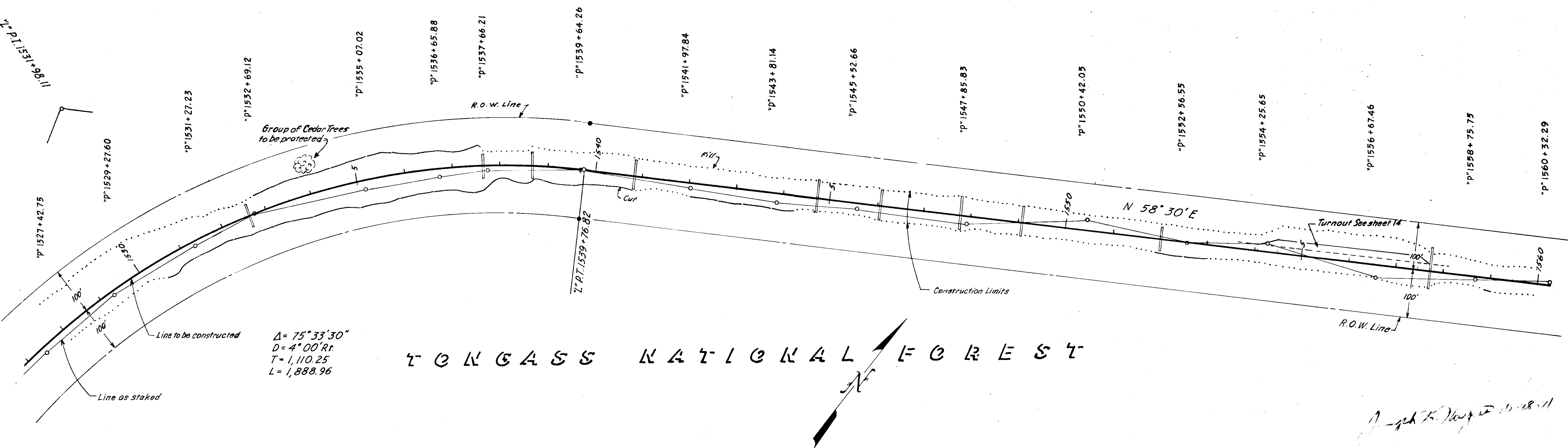


TONGASS NATIONAL FOREST

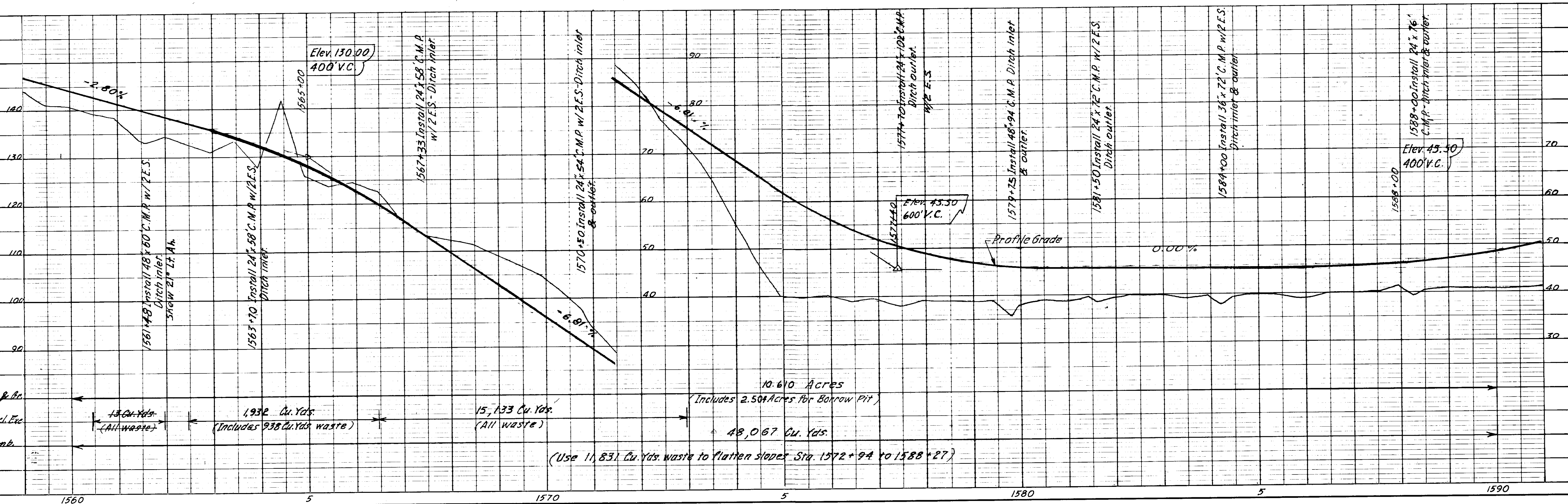
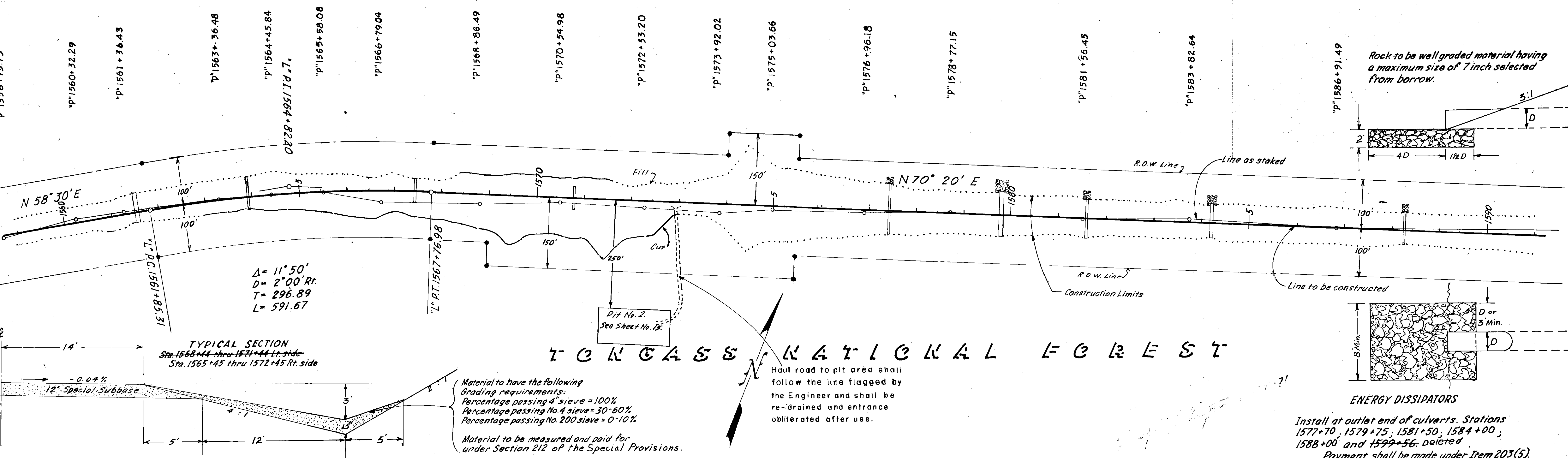
Joseph K. Hargrett 10-28-71



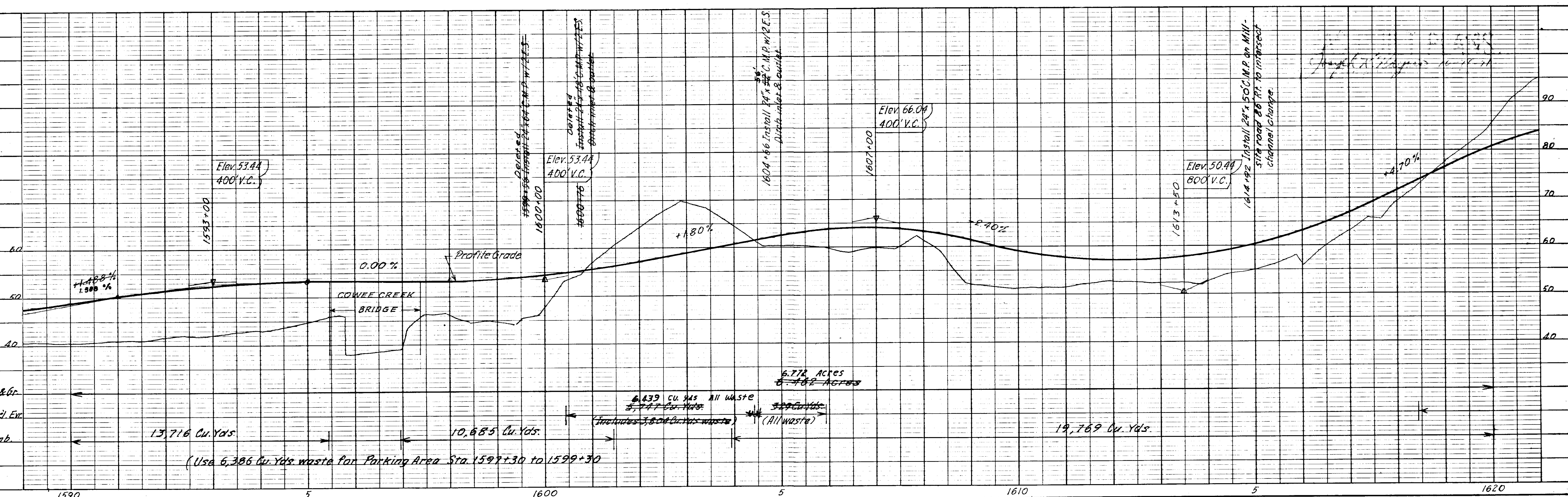
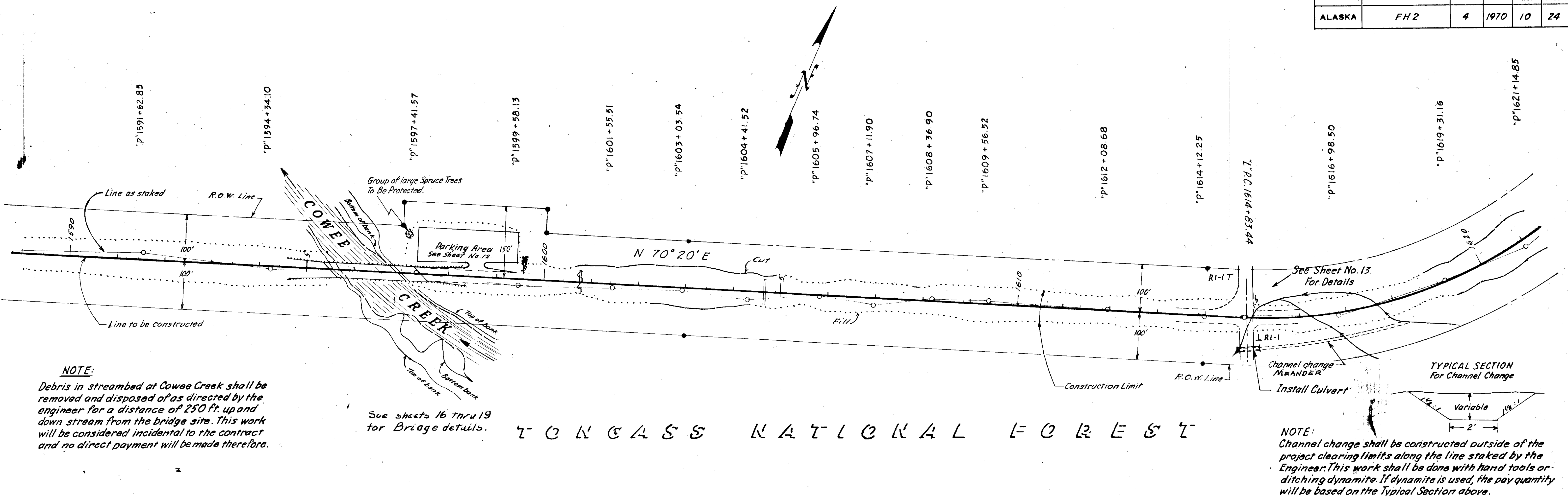
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	8	24



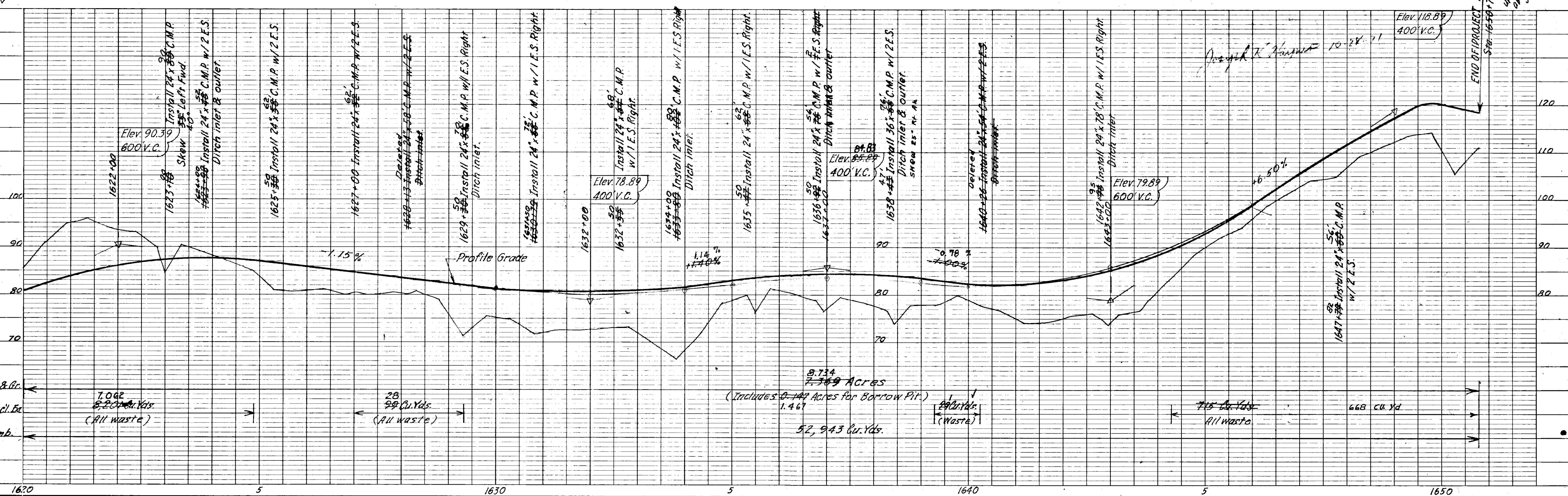
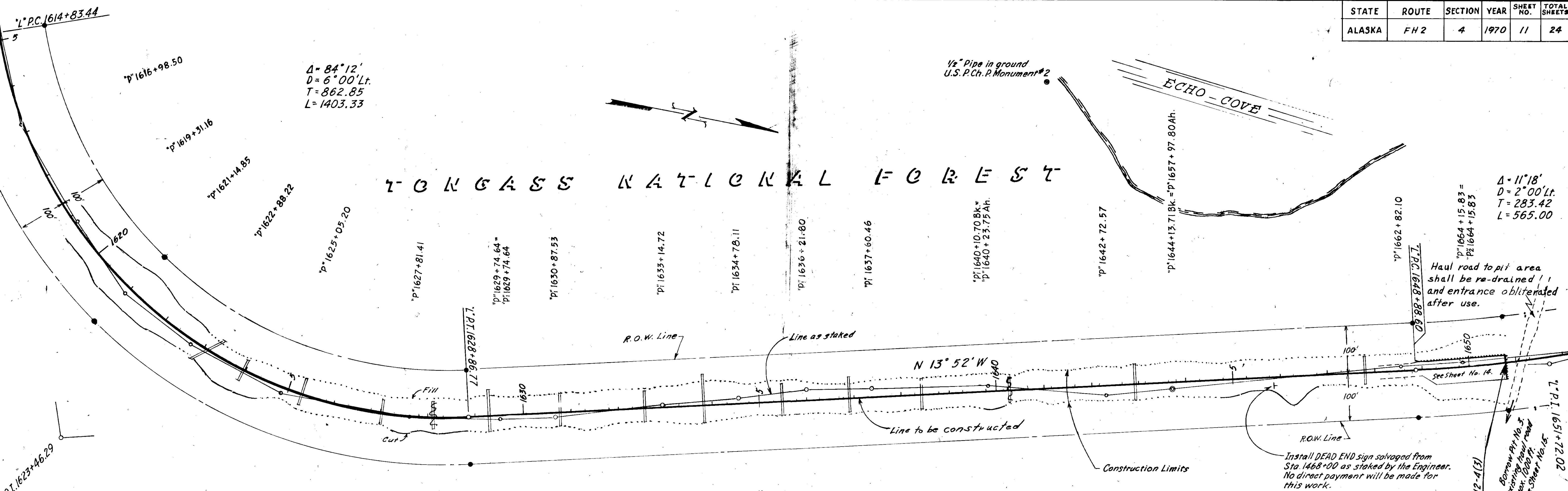
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ALASKA	FH2	4	1970	9	24



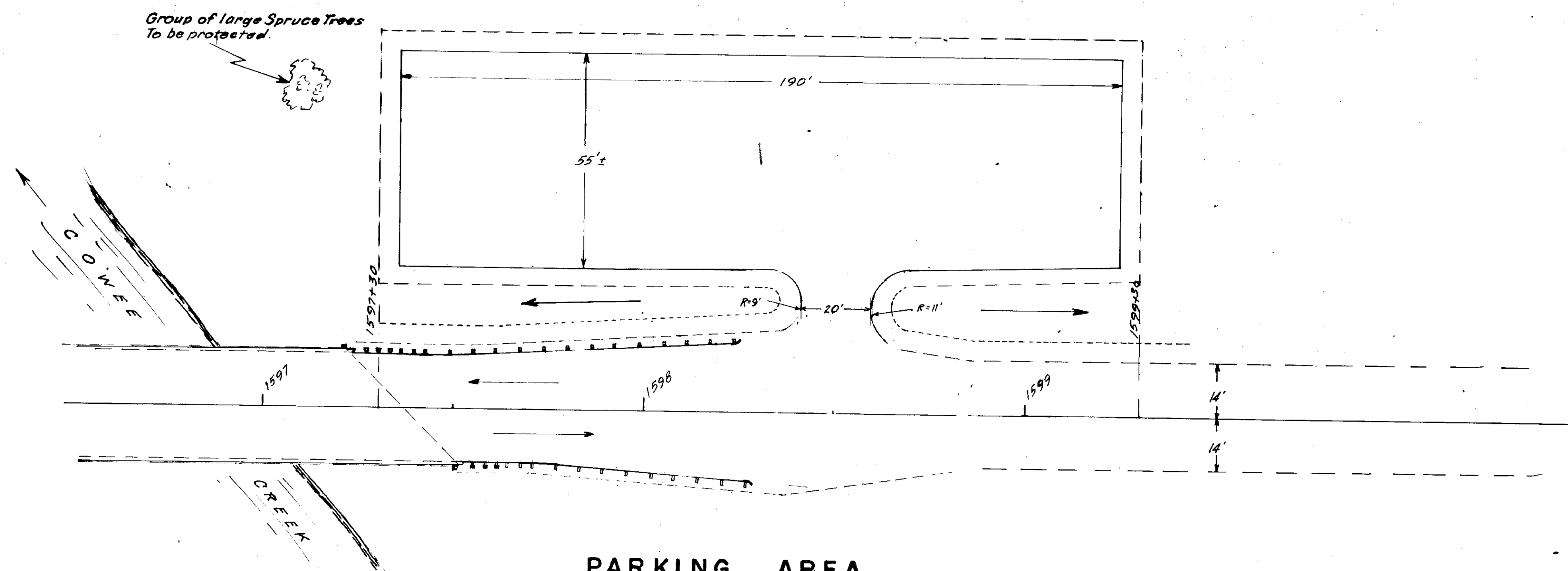
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 2	4	1970	10	24



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 2	4	1970	11	24

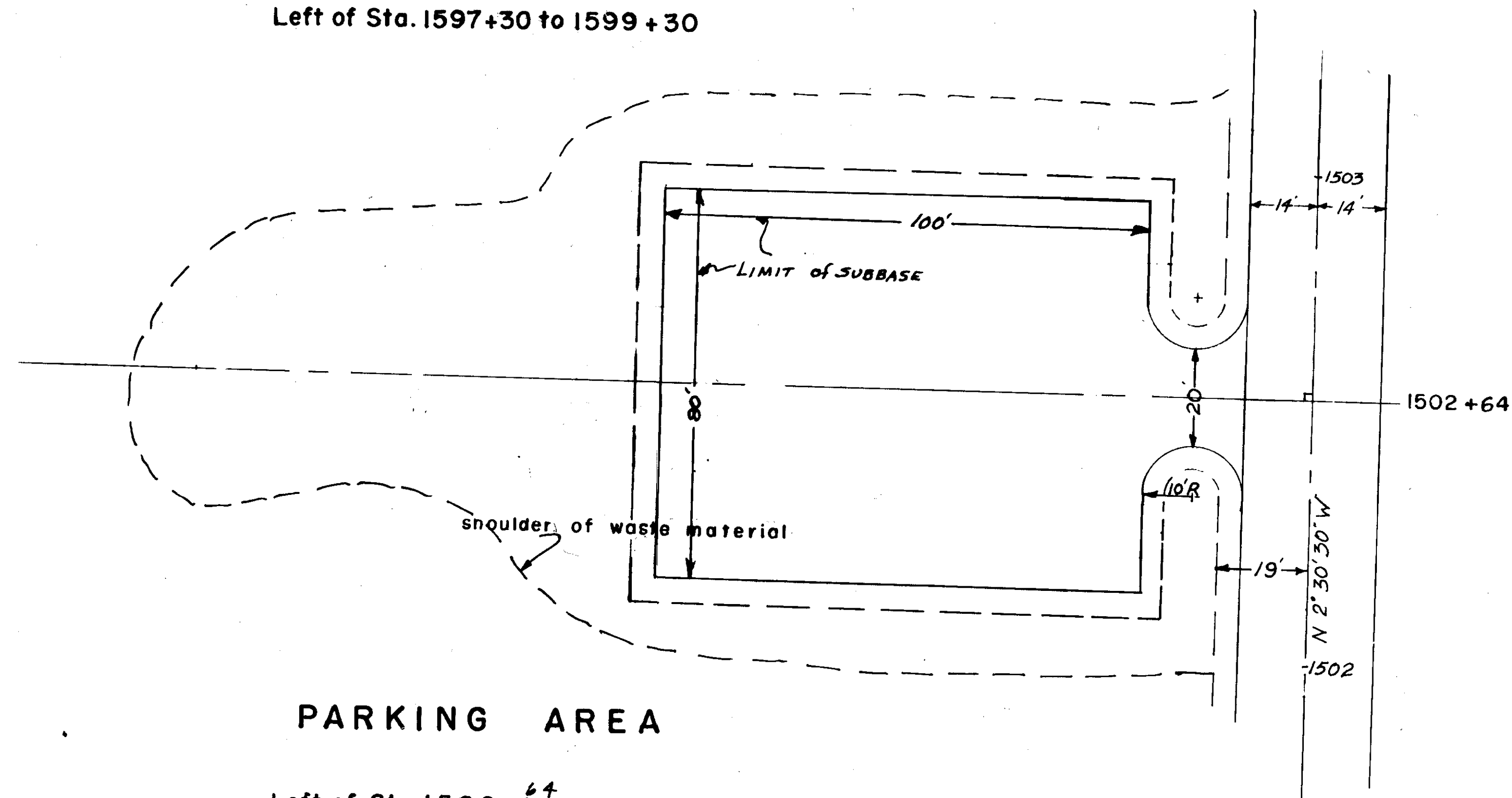


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	12	24



PARKING AREA

Left of Sta. 1597+30 to 1599+30

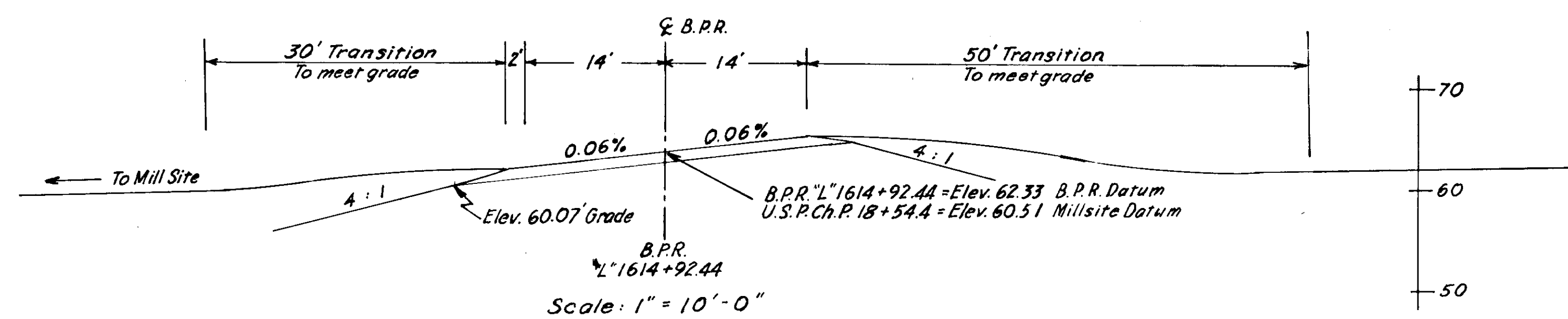


PARKING AREA

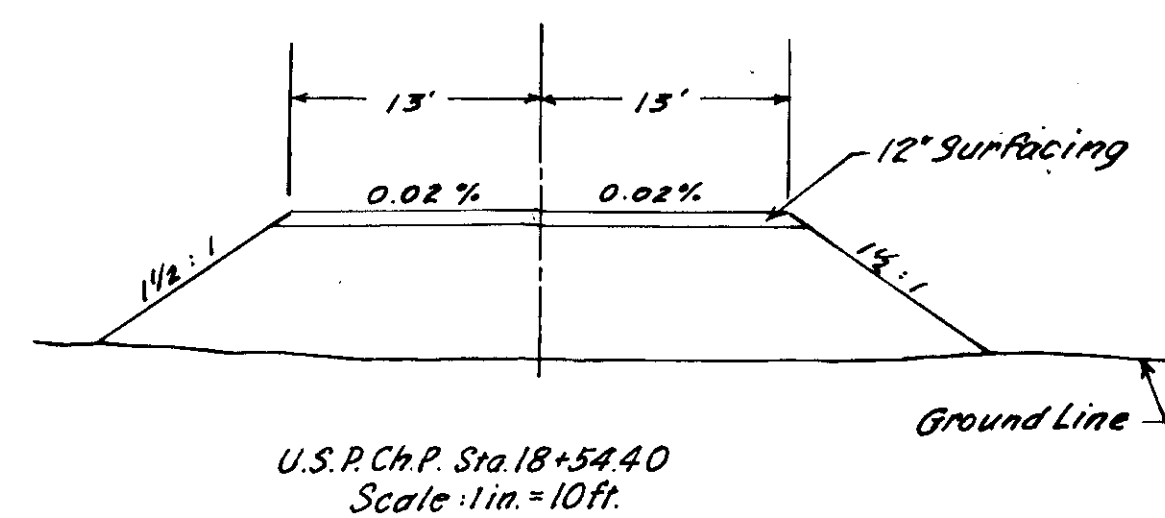
Left of Sta. 1502+54

AS BUILT PLANS
 Suppl. 2. Revised 10-28-71

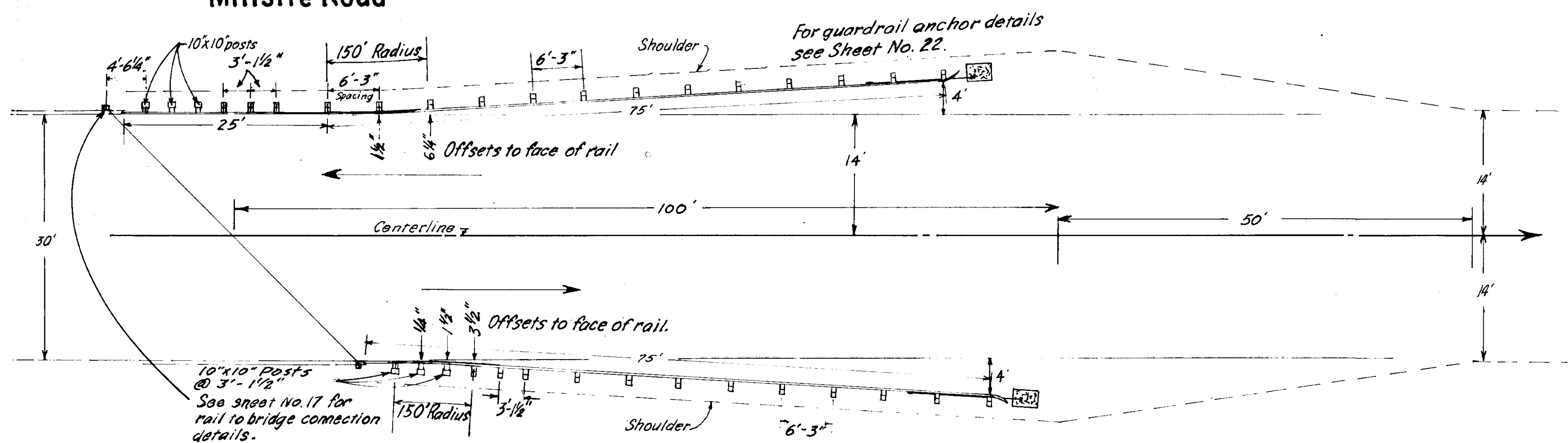
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	13	24



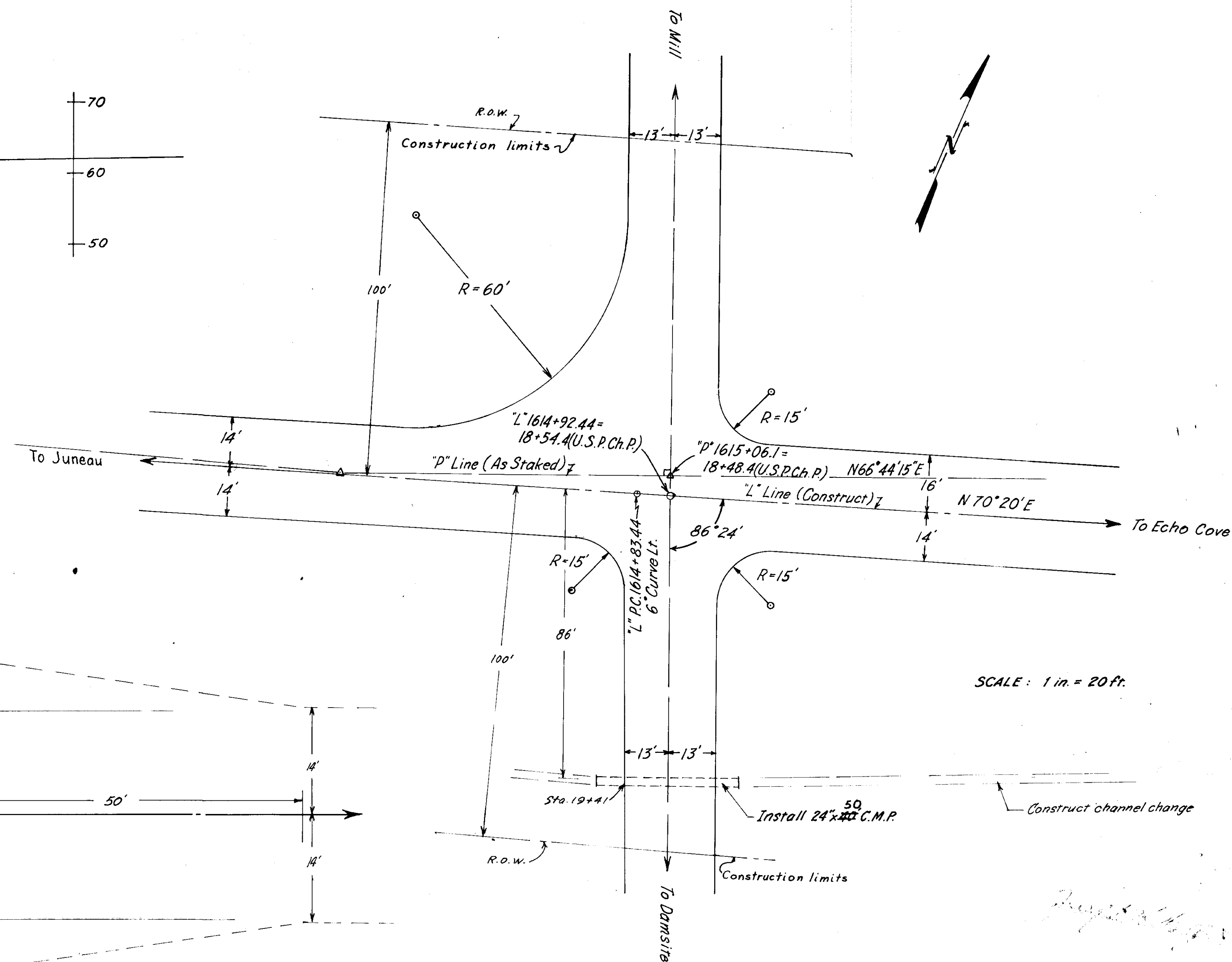
TYPICAL SECTION



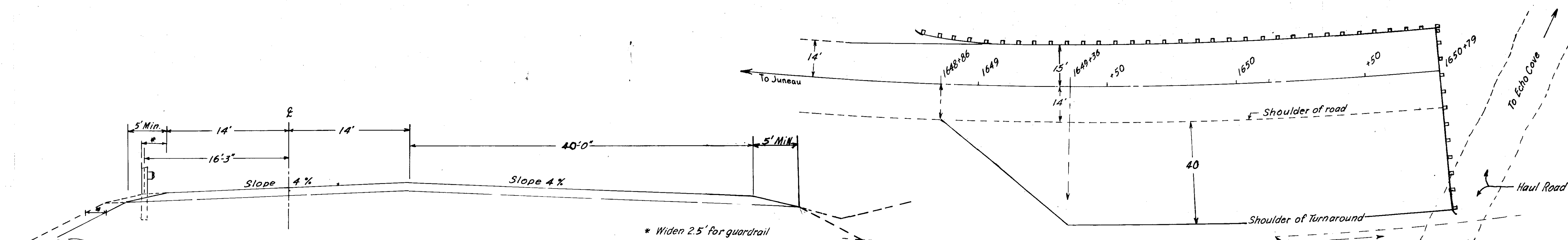
TYPICAL SECTION Millsite Road



**GUARDRAIL APPROACH
TO COWEE CREEK**
Both ends similar



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH2	4	1970	14	24



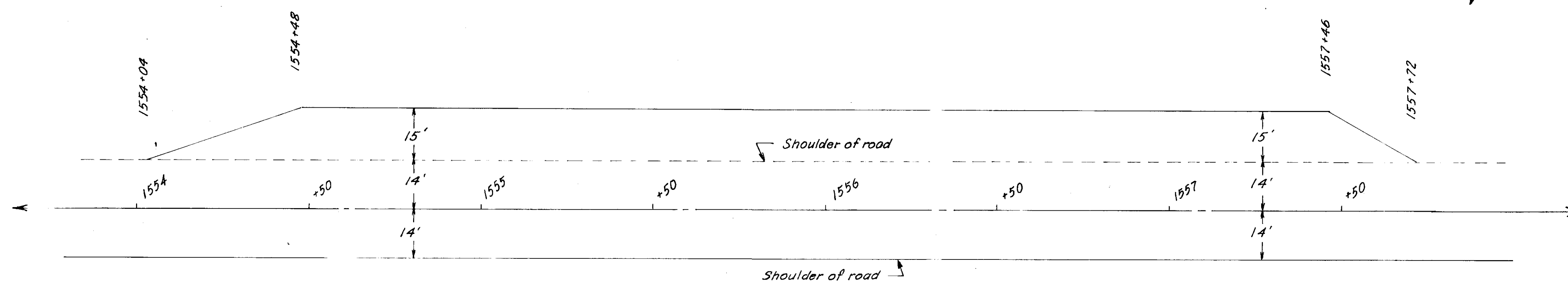
TURNAROUND TYPICAL SECTION

Sta. 1648+86 to Sta. 1650+79

Scale: 1" = 6'-0"

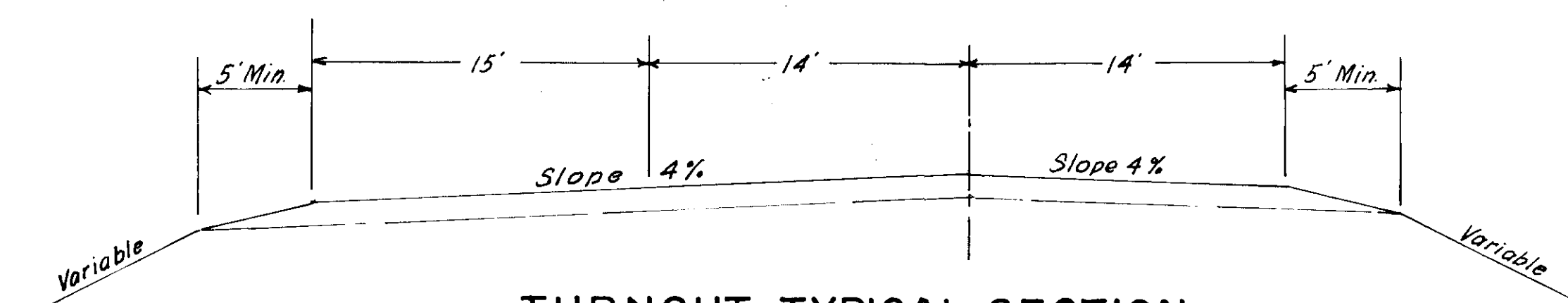
TURNAROUND

SCALE: 1" = 20'-0"



TURNOUT

SCALE: 1" = 20'-0"



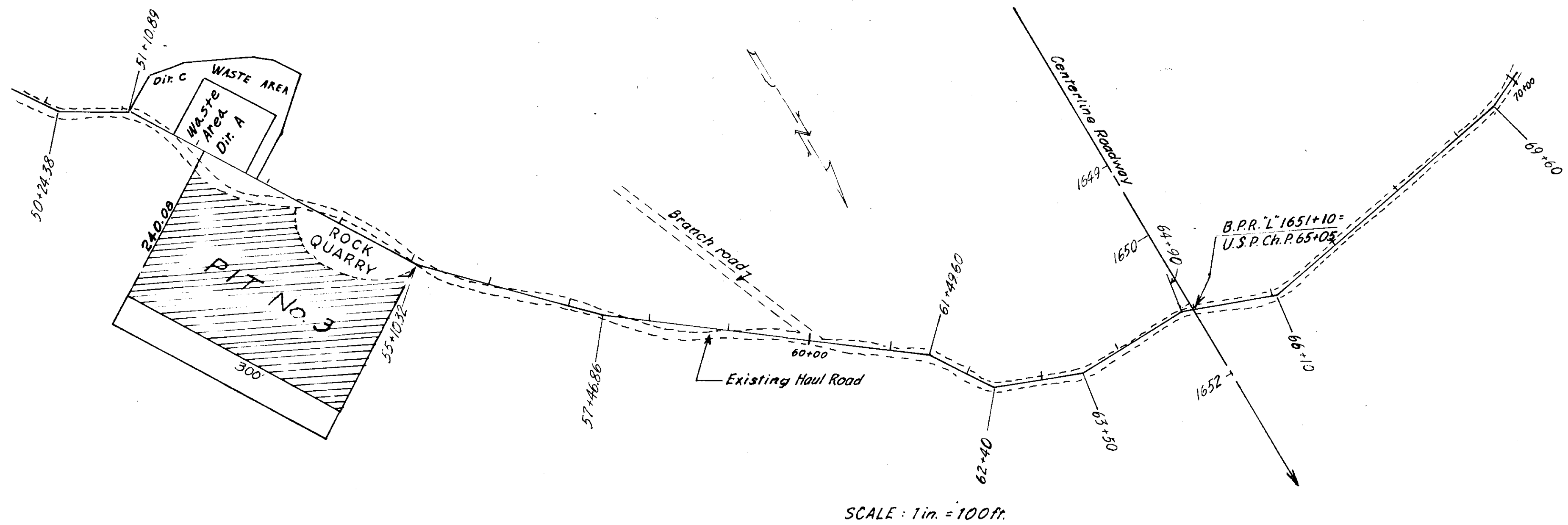
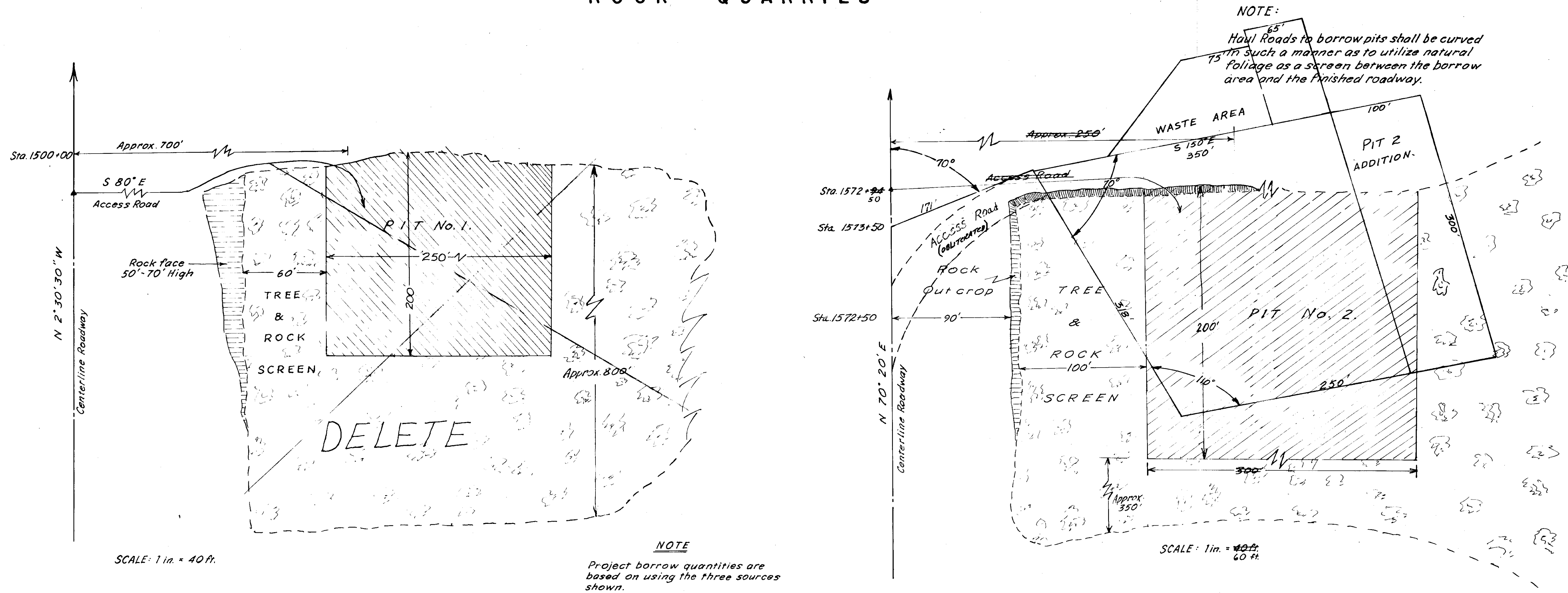
TURNOUT TYPICAL SECTION

Sta. 1554+04 to Sta. 1557+72

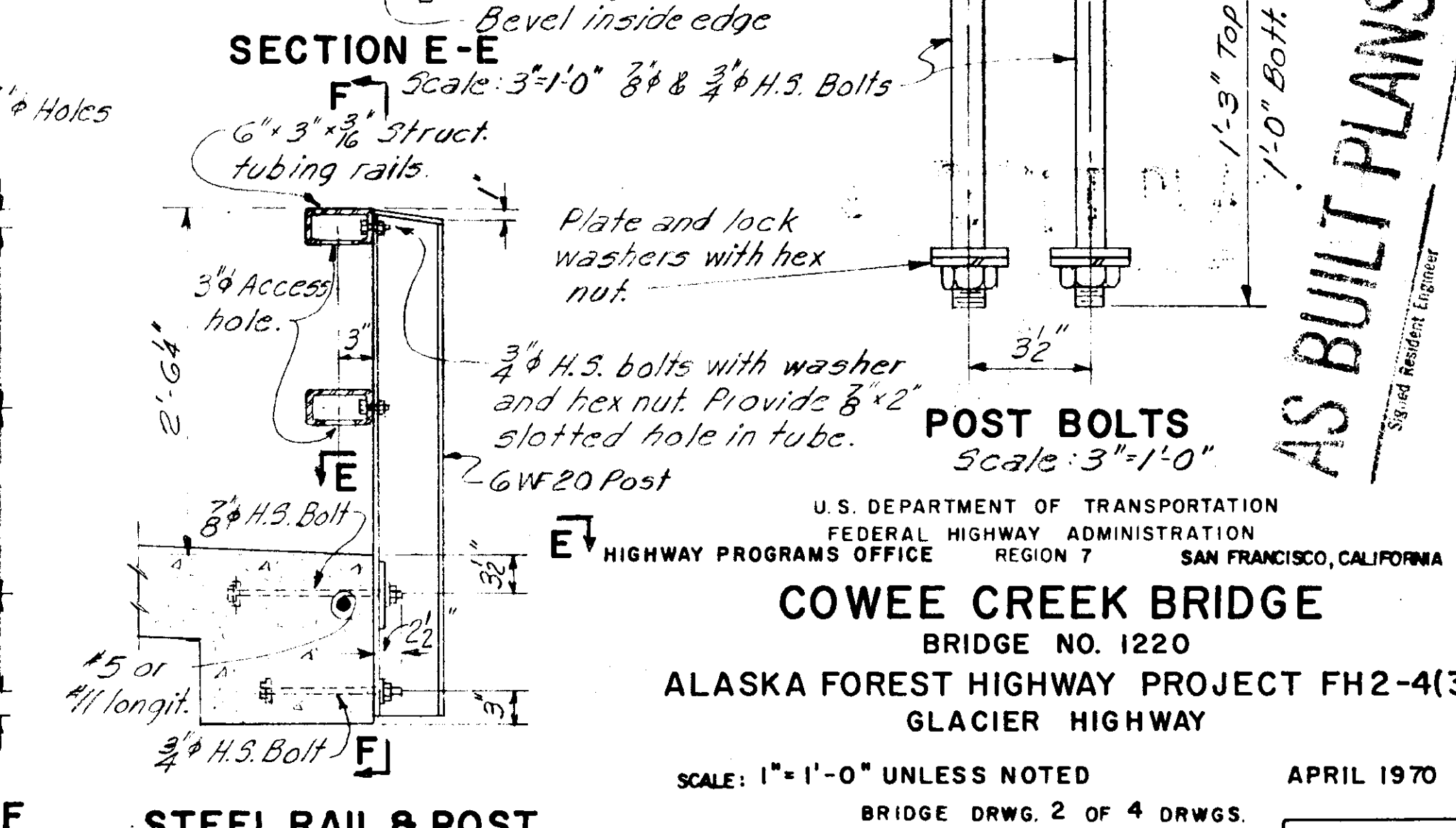
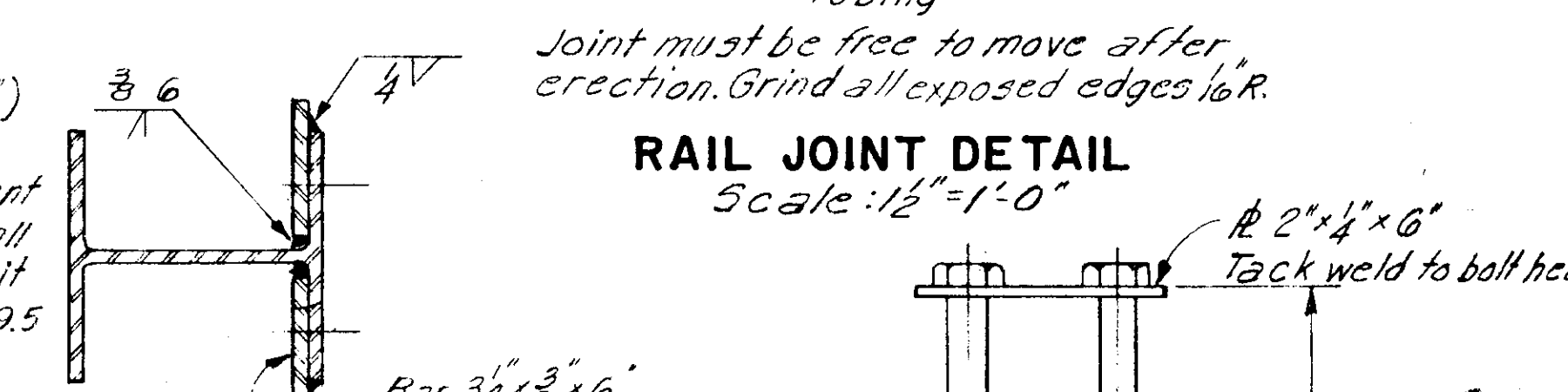
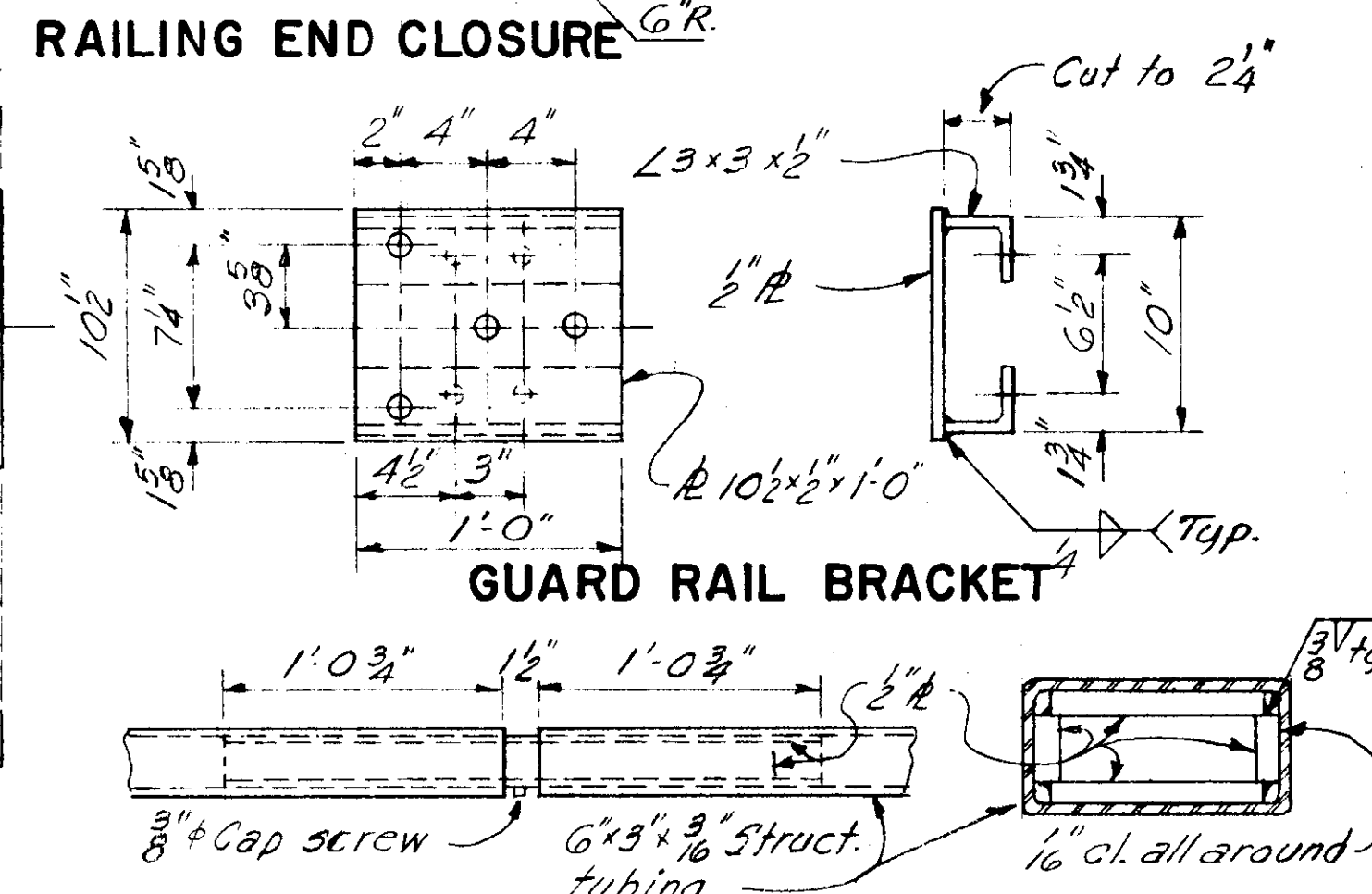
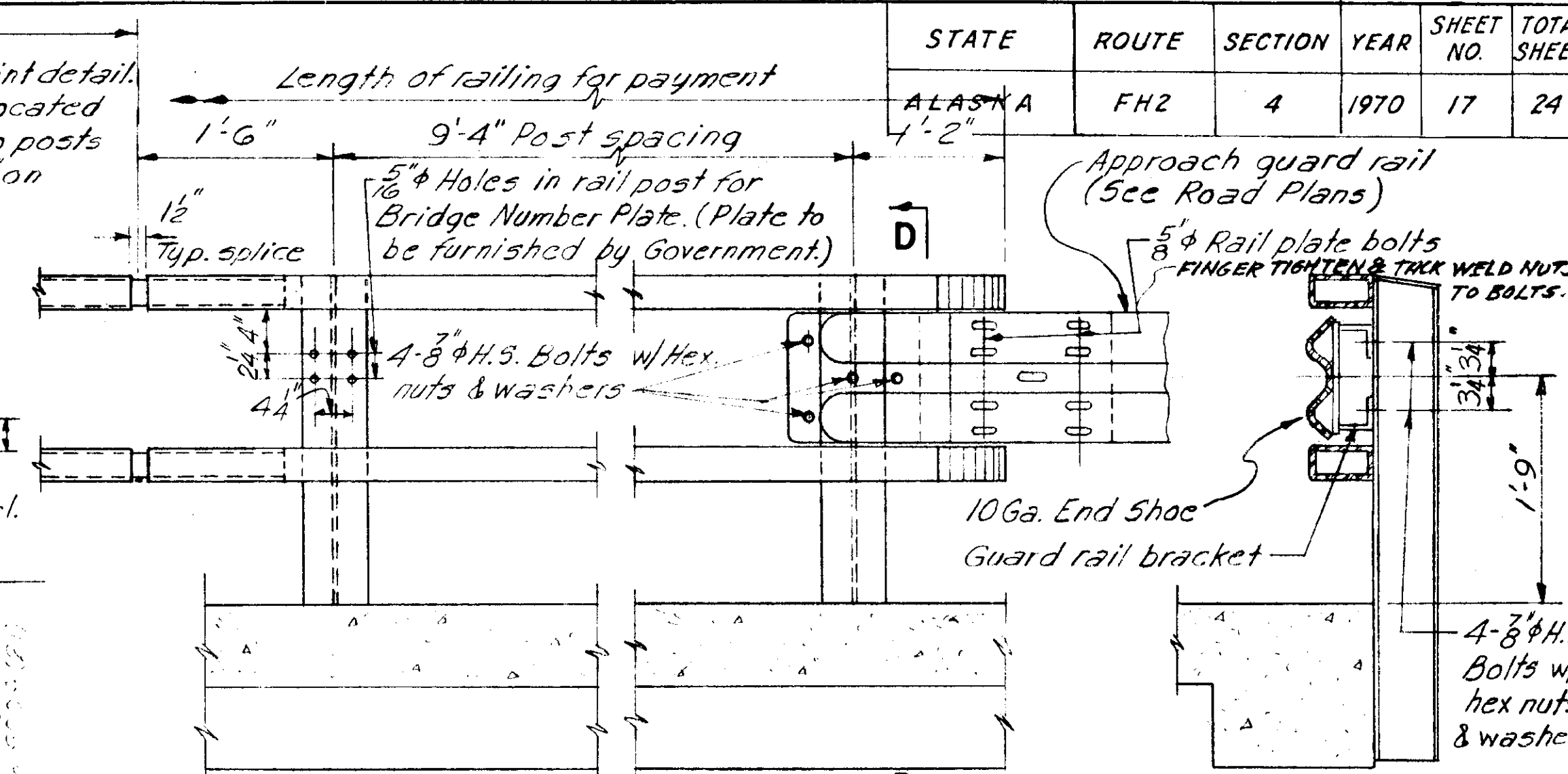
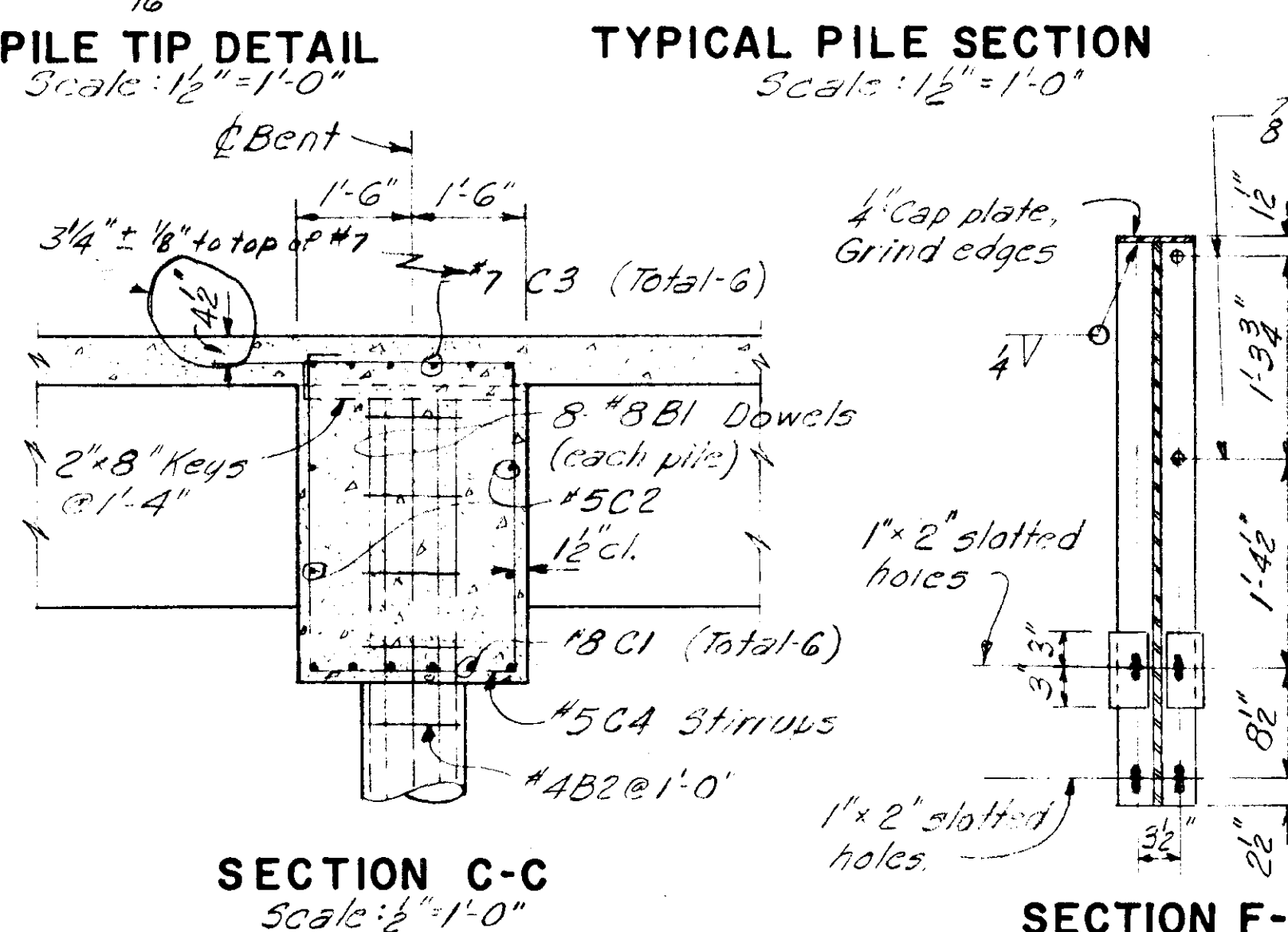
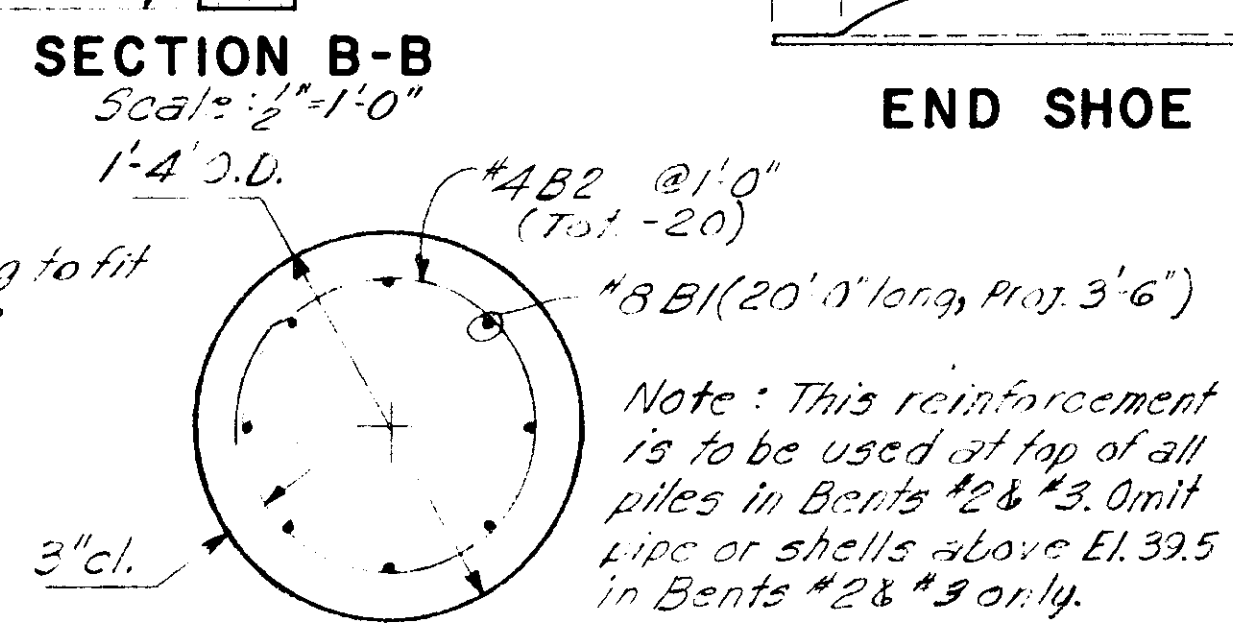
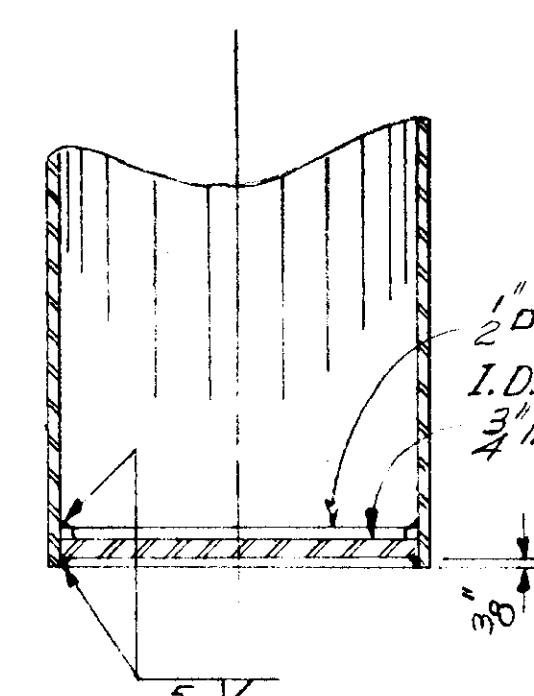
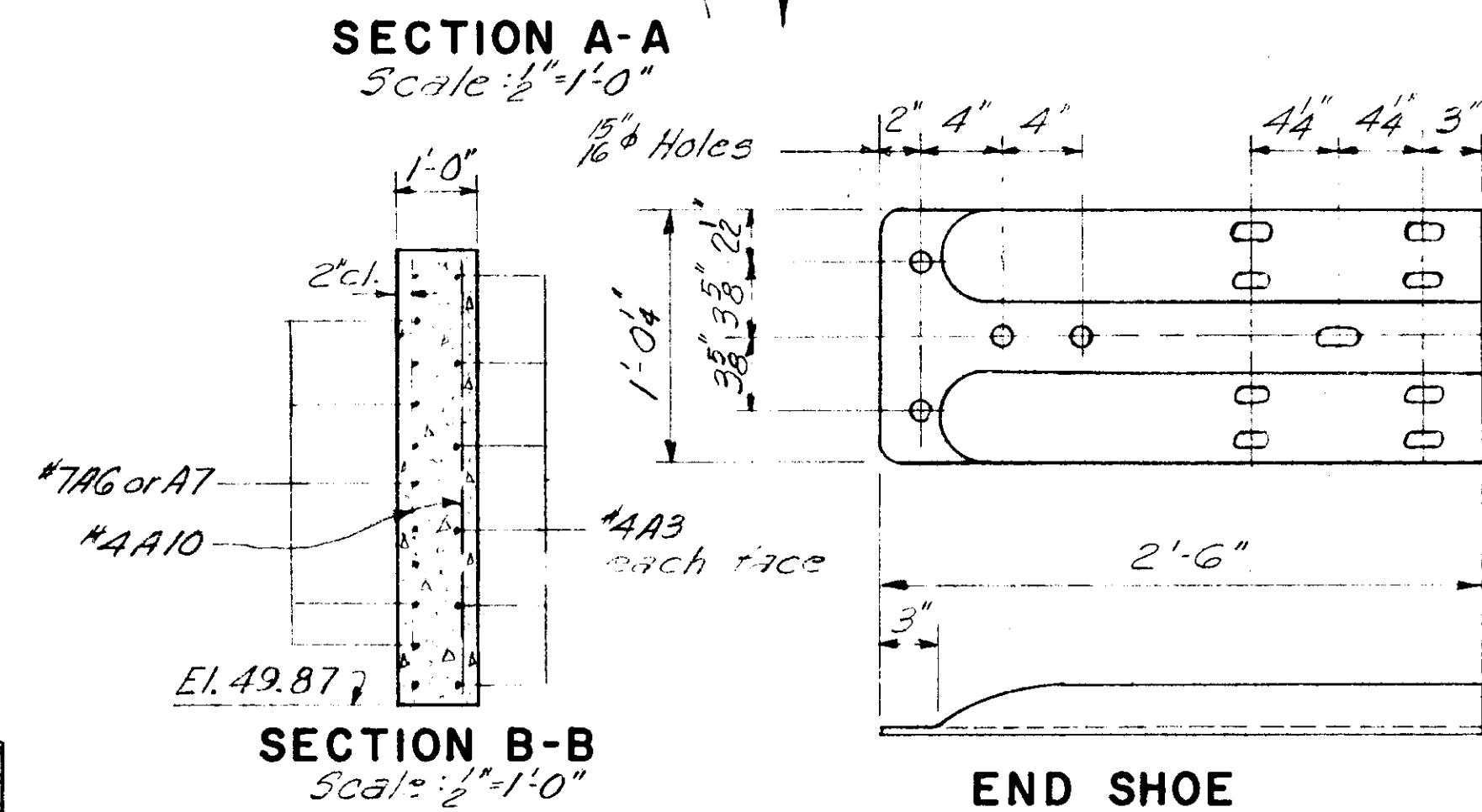
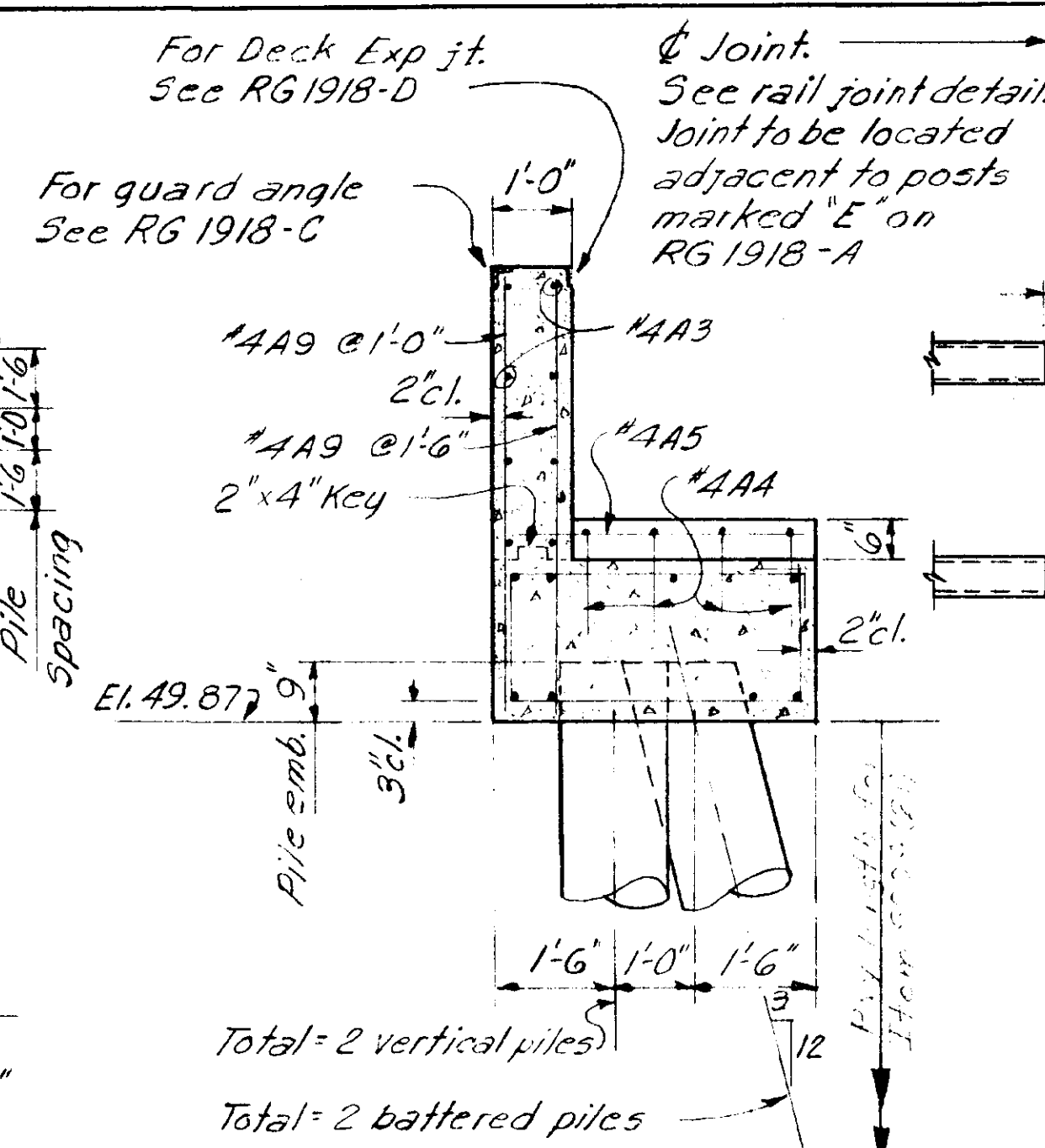
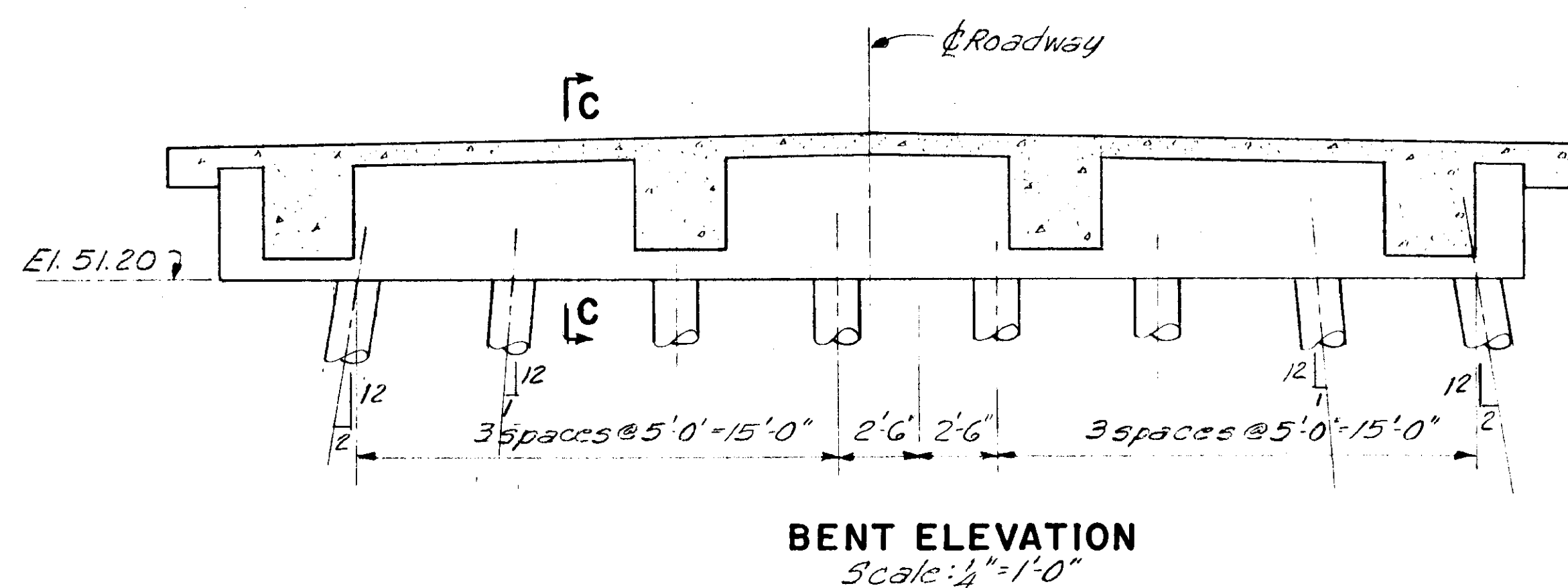
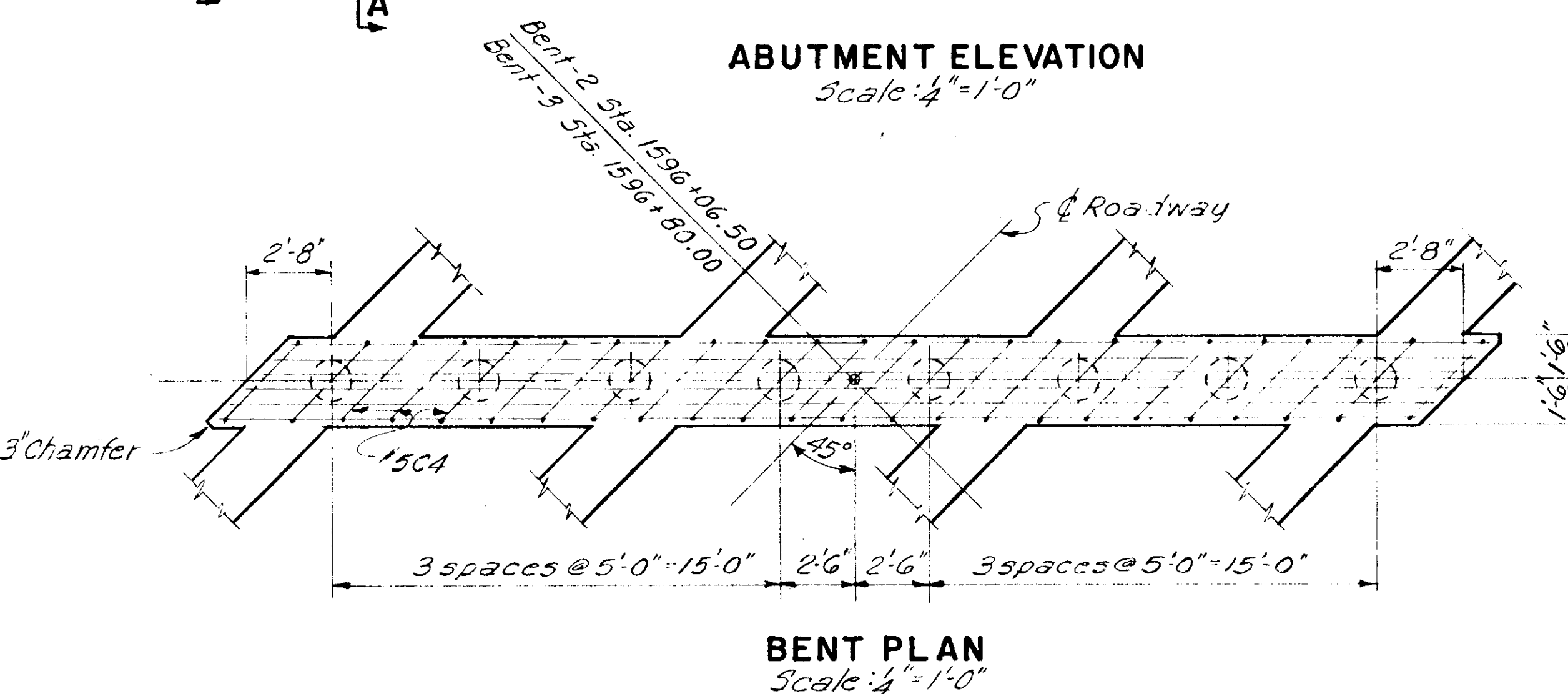
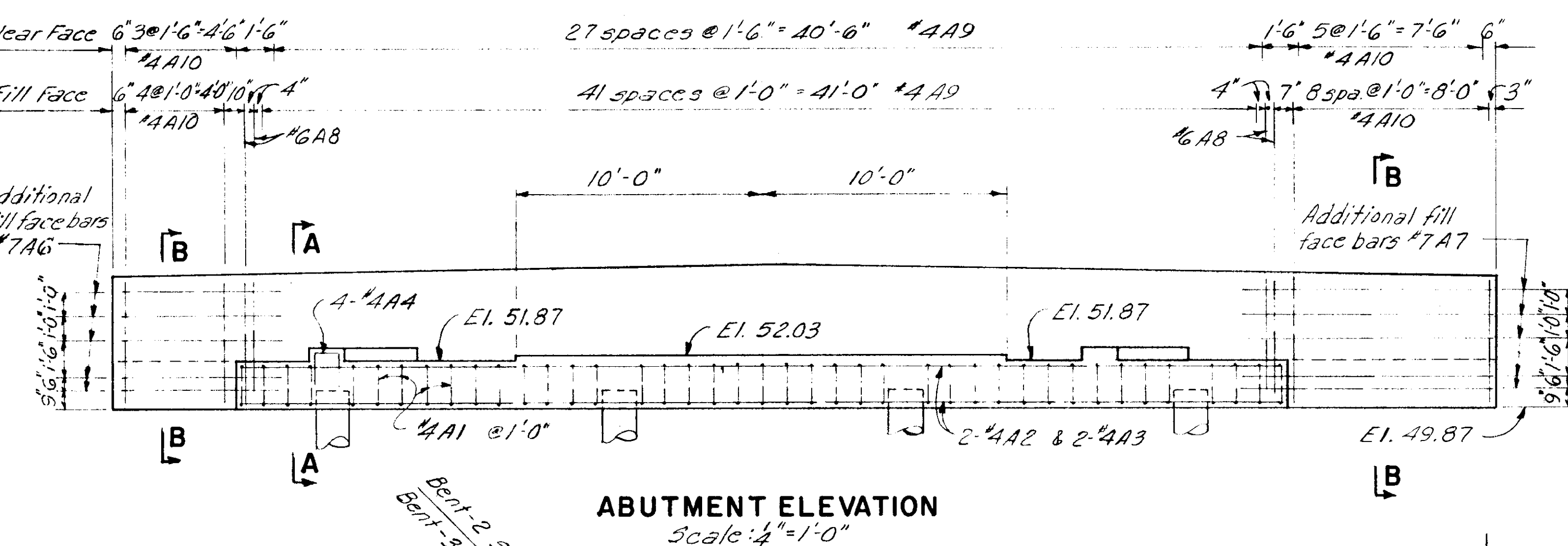
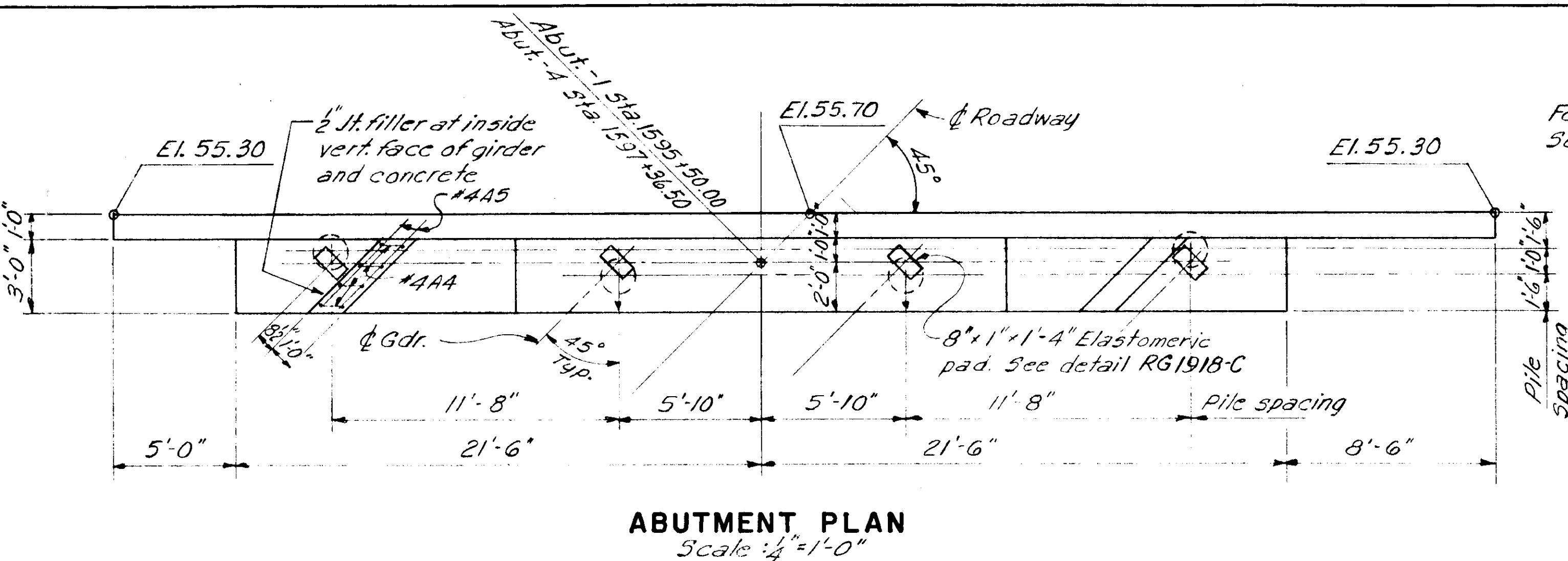
Scale: 1" = 6'-0"

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 2	4	1970	15	24

ROCK QUARRIES



STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA 4.2"	FH2	4	1970	17	24



AS BUILT PLANS
Signed Resident Engineer

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
HIGHWAY PROGRAMS OFFICE REGION 7 SAN FRANCISCO, CALIFORNIA

COWEE CREEK BRIDGE
BRIDGE NO. 1220
ALASKA FOREST HIGHWAY PROJECT FH2-4(3)
GLACIER HIGHWAY

SCALE: 1" = 1'-0" UNLESS NOTED
BRIDGE DRWG. 2 OF 4 DRWGS.

