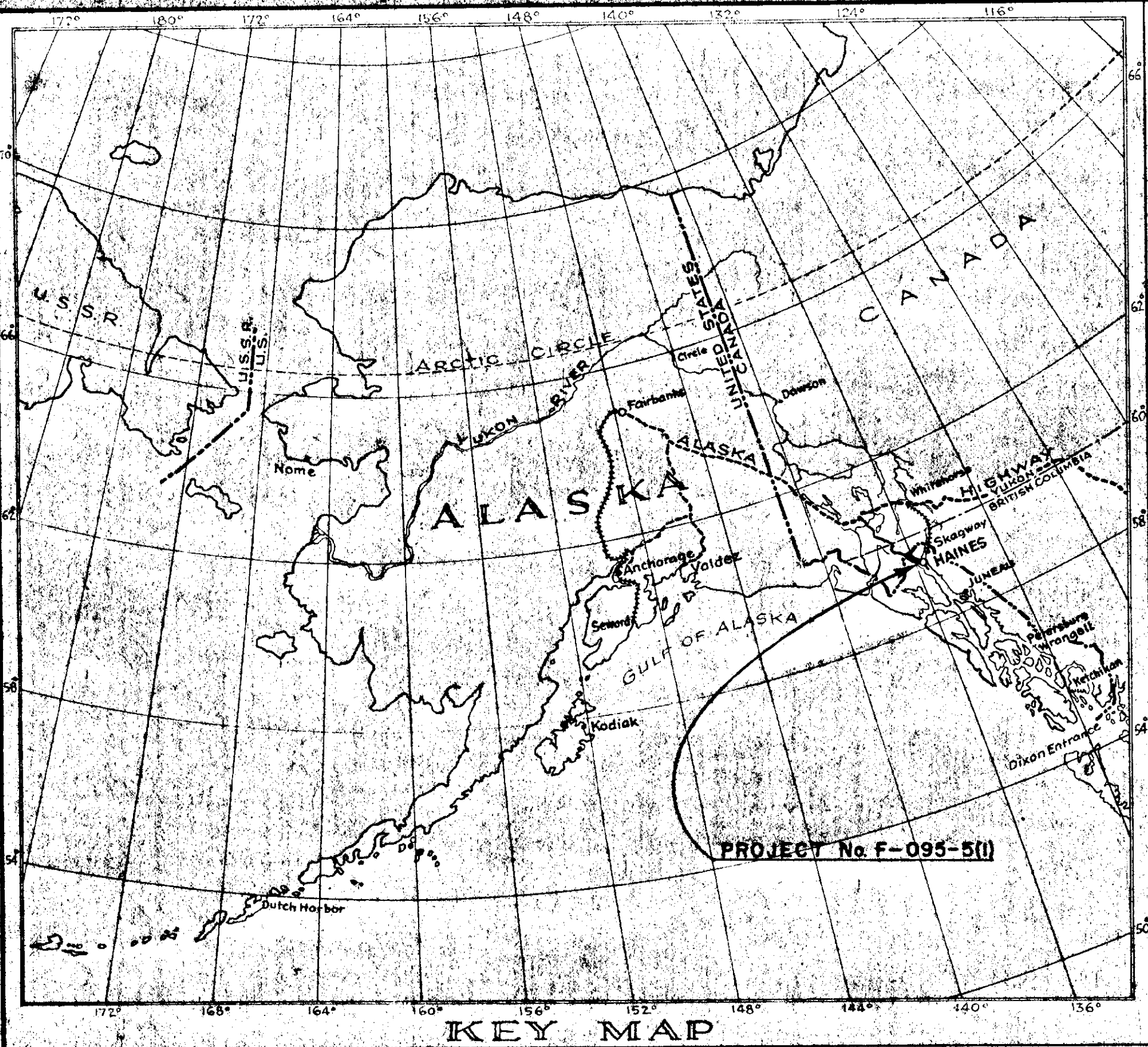


TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP 95	5	1957	1	8

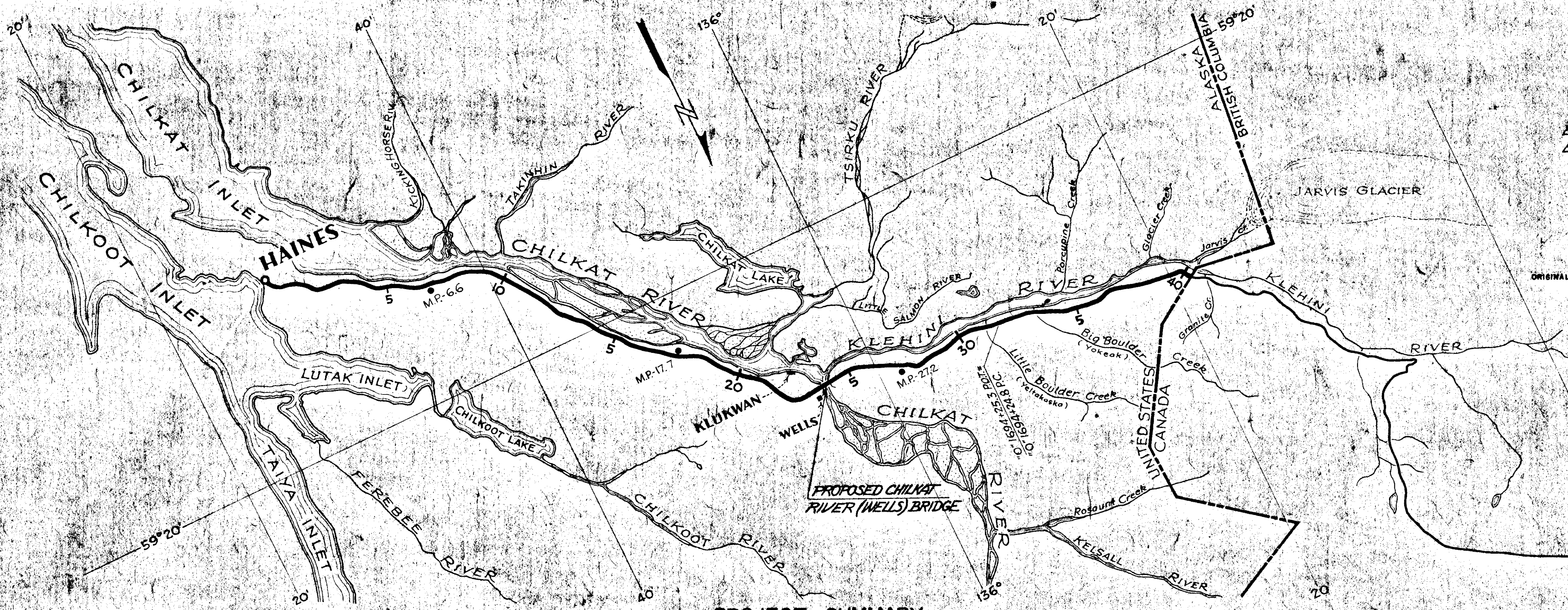


U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 10

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
NO. F-095-5(1)
CHILKAT RIVER BRIDGE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3	ABUTMENT DETAILS
4	PIER DETAILS
5-6	SUPERSTRUCTURE DETAILS
7-8	CONSTRUCTION DETAILS



LIMITS OF WORK
 Beginning of Project Sta 1255+63.75
 End of Project Sta 1260+67.49

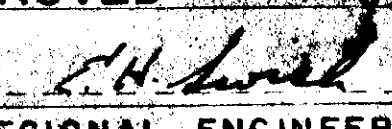
AS BUILT PLANS
 ORIGINAL DRAWN BY H. L. WALTON SEPT. 26 - 58
Squad Resident Engineer

CORRECTIONS TRANSFERRED
 TRACING BY A.G.G. DATE 12-18-58
 CHECKED BY _____ DATE _____

PROJECT SUMMARY

BRIDGE	LENGTH OF ROADWORK		LENGTH OF BRIDGE	
	FT.	MI.	FT.	MI.
CHILKAT RIVER BRIDGE		MI. 23.8	503.75	0.095
TOTAL			503.75	0.095

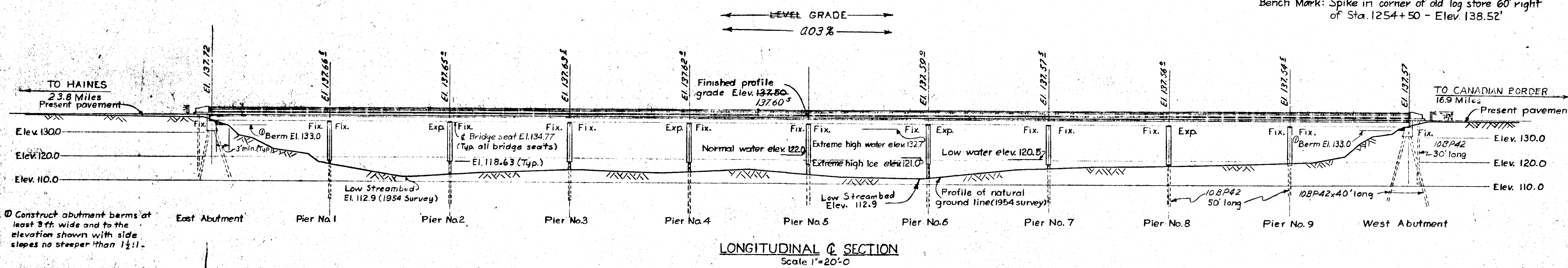
TOTAL LENGTH OF PROJECT 503.75 FT. 0.095 MI.

APPROVED
 Date 5/20/57
 REGIONAL ENGINEER
 BUREAU OF PUBLIC ROADS
 REGION 10

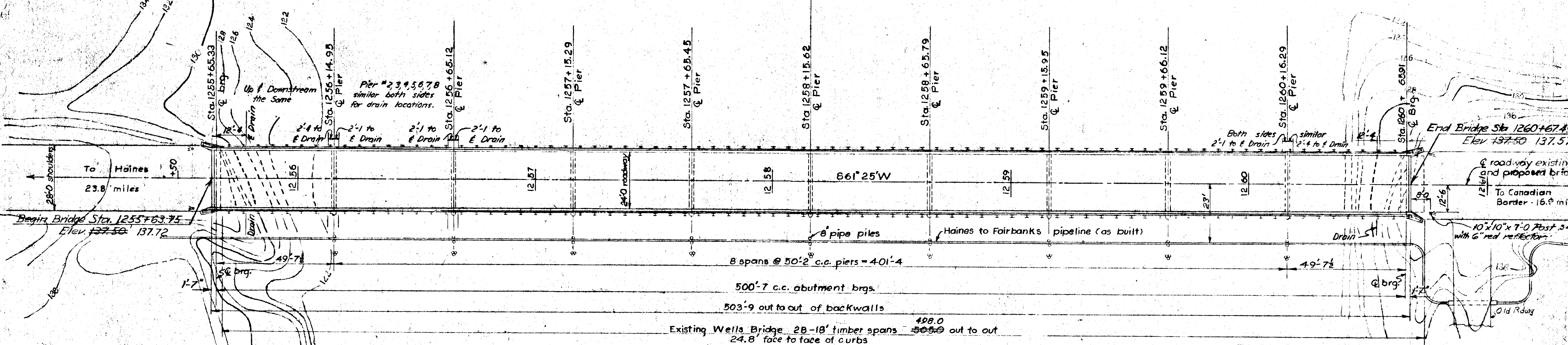
APPROVED
 _____ Date _____

Ry # 742

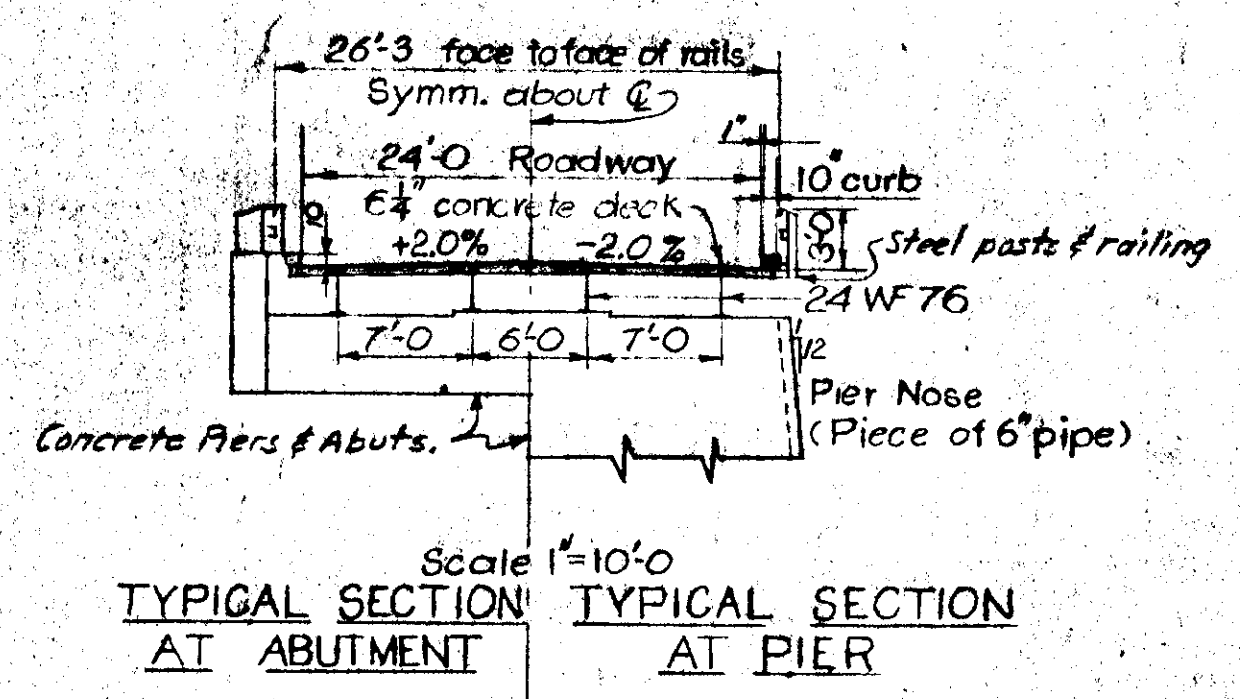
Bench Mark: Spike in corner of old log store 60' right of Sta. 1254+50 - Elev. 138.52'



Construct abutment berms at least 3 ft. wide and to the elevation shown with side slopes no steeper than 1 1/2:1.



NOTE: From surface conditions it appears that the streambed consists of gravel with boulders.



SHEET INDEX

General Layout	Sheet 1 of 7
Abutment Details	Sheet 2 of 7
Pier Details	Sheet 3 of 7
Superstructure Details	Sheet 4 of 7
Superstructure Details	Sheet 5 of 7
Construction Details	Sheet 6 of 7
Construction Details	Sheet 7 of 7

PLAN
Scale 1"=20'-0"

GENERAL NOTES

This bridge has been designed for an H20-44 loading of the A.A.S.H.O. Standard Specifications for Highway Bridges, 1953 Edition. All material and workmanship of fabrication and erection shall conform to the Standard Specifications for Constr. of Roads and Bridges on Federal Highway Projects, FP-57. The contractor shall remove the present timber bridge in stages and shall construct the proposed bridge in stages so as to permit traffic over the structures except as set forth in the Special Provisions for the contract. See Sheet 4 of 6 for sequence of construction stages. All reinforcing steel shall be intermediate grade. All concrete shall be Class A.

AS BUILT PLANS

ORIGINAL SIGNED BY **H. L. WALTON** SEPT 26 - 58
Signed Resident Engineer Date

BEGINNING OF PROJECT STA. 1255+63.75
END OF PROJECT STA. 1260+67.49

CORRECTIONS TRANSFERRED
TRACING BY A.G.G. DATE 12-18-58
CHECKED BY DATE

CONSTRUCTION COMPLETED
SEPTEMBER 1958

TOTAL ESTIMATED QUANTITIES

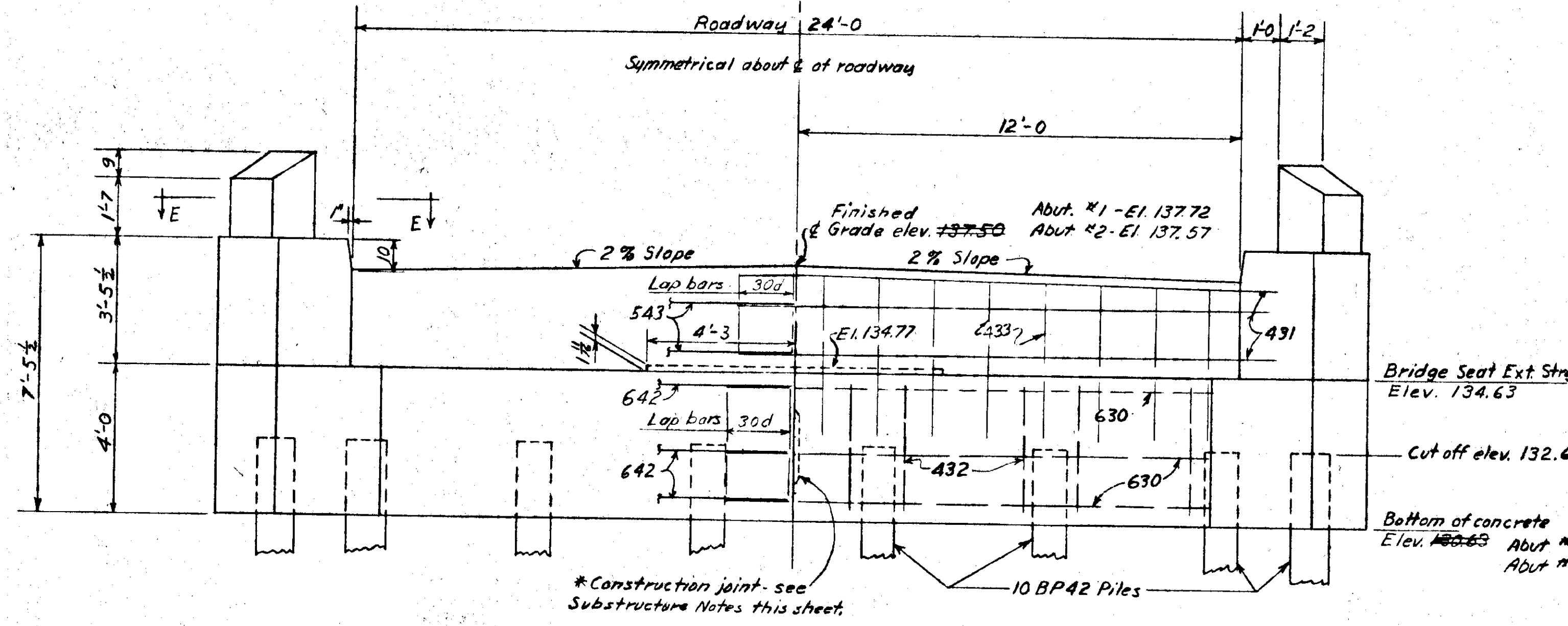
PAY ITEM NUMBER & NAME	UNITS	PIERS	ABUTTS	SUPER.	TOTAL
5604 Guideposts	ea.				4
470(2) Dismantling Existing Bridge	—		126		Lump Sum
103(2) Excavation for Structures	cu. yd.		100		100
400(3) Structural Steel Piles, 10BP42, Form.	lin. ft.	3150	600		3750 3750
400(2) Structural Steel Piles, 10BP42, Driven	ea.	63	16		79
401(1) Pile Core Stoppers	ea.	63	12		75
400(2) Splices	ea.	2	4		6
406(1) Class A Concrete	cu. yd.	230.8	49.7	269.2	549.7
407(1) Reinforcement Steel, Inter. Gr.	lbs.	14,364	2291	16,655	37,310
420(1) Structural Steel, A7	lbs.			81,875	81,875
420(2) Structural Steel, A242	lbs.			156,840	156,840
					70,691 87,346

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS, REGION 10
JUNEAU, ALASKA
DESIGN FOR
500'x24' I-BM BRIDGE
CONSISTING OF 10 SIMPLE 50' SPANS
GENERAL LAYOUT

HIGHWAY HAINES CUT-OFF
DISTRICT JUNEAU DIST. CHILKAT RIVER H-20-44
DESIGNED BY D.H.L.
CHECKED BY D.H.L.
DATE DECEMBER 1956 SHEET 1 OF 7
DESIGN NO. 1556

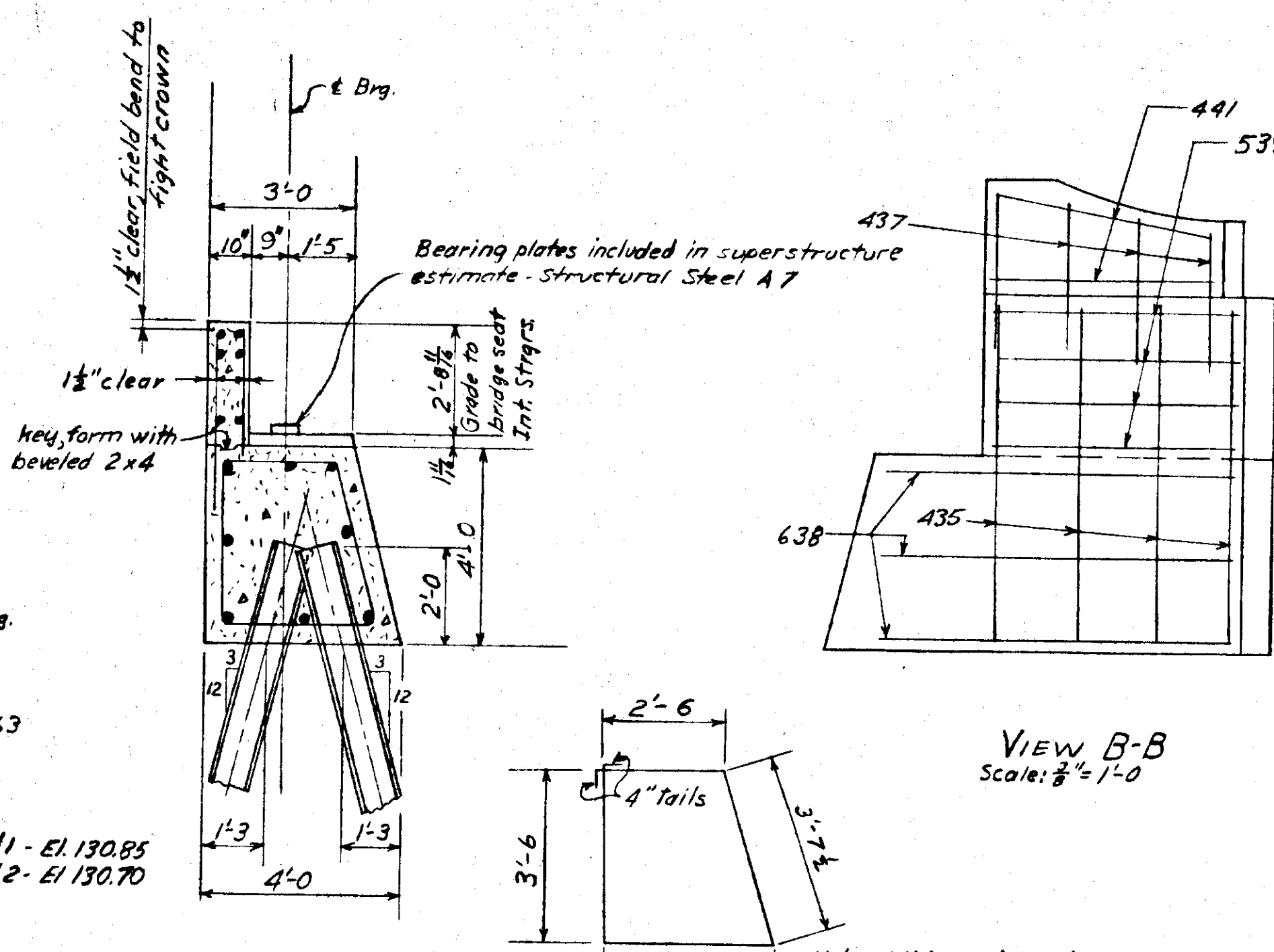
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP 95	5	1957	3	8

Bench Mark: Spike in corner of old log store 60' right of Sta. 1254+50. Elev. 138.52'

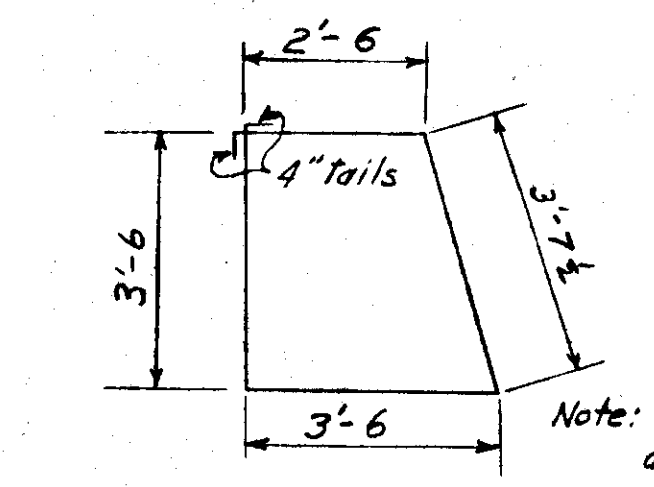


ABUTMENT ELEVATION
Scale: 3/8" = 1'-0"

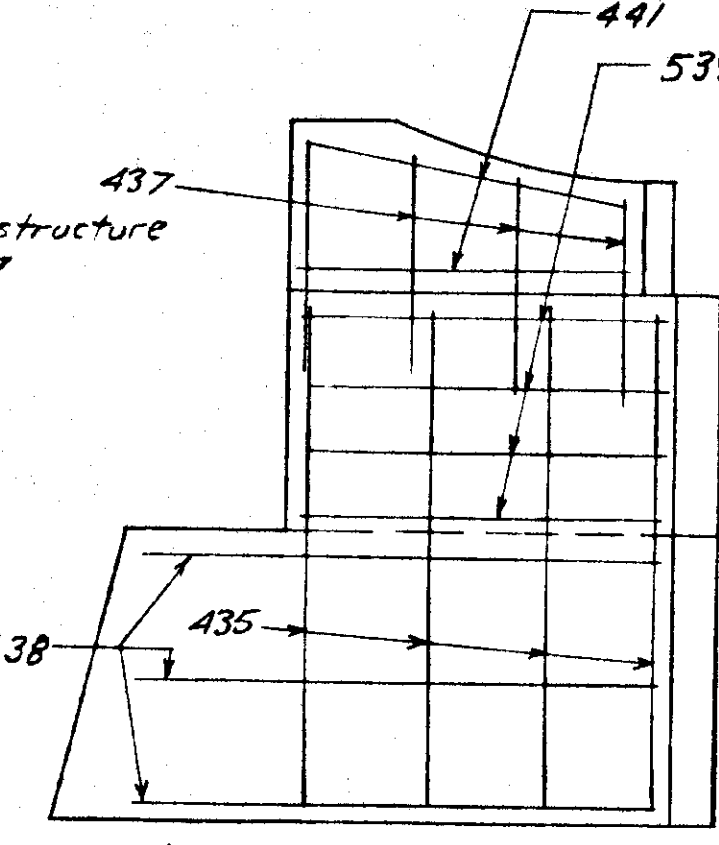
Note: Construction of the abutments shall be completed in two stages corresponding to the construction of the deck as shown on sheet 4 of 6.



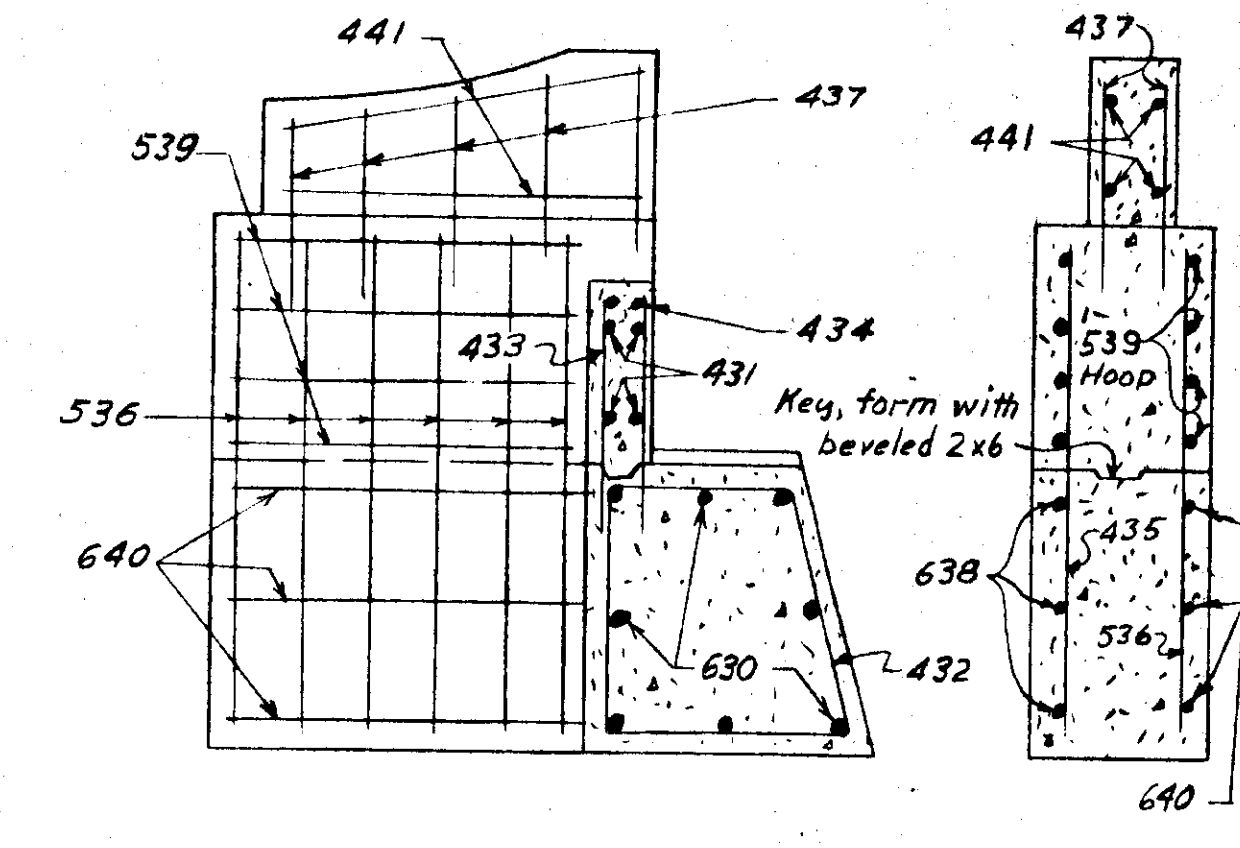
SECTION A-A
Scale: 3/8" = 1'-0"



BAR 432
Scale: 3/8" = 1'-0"



VIEW B-B
Scale: 3/8" = 1'-0"

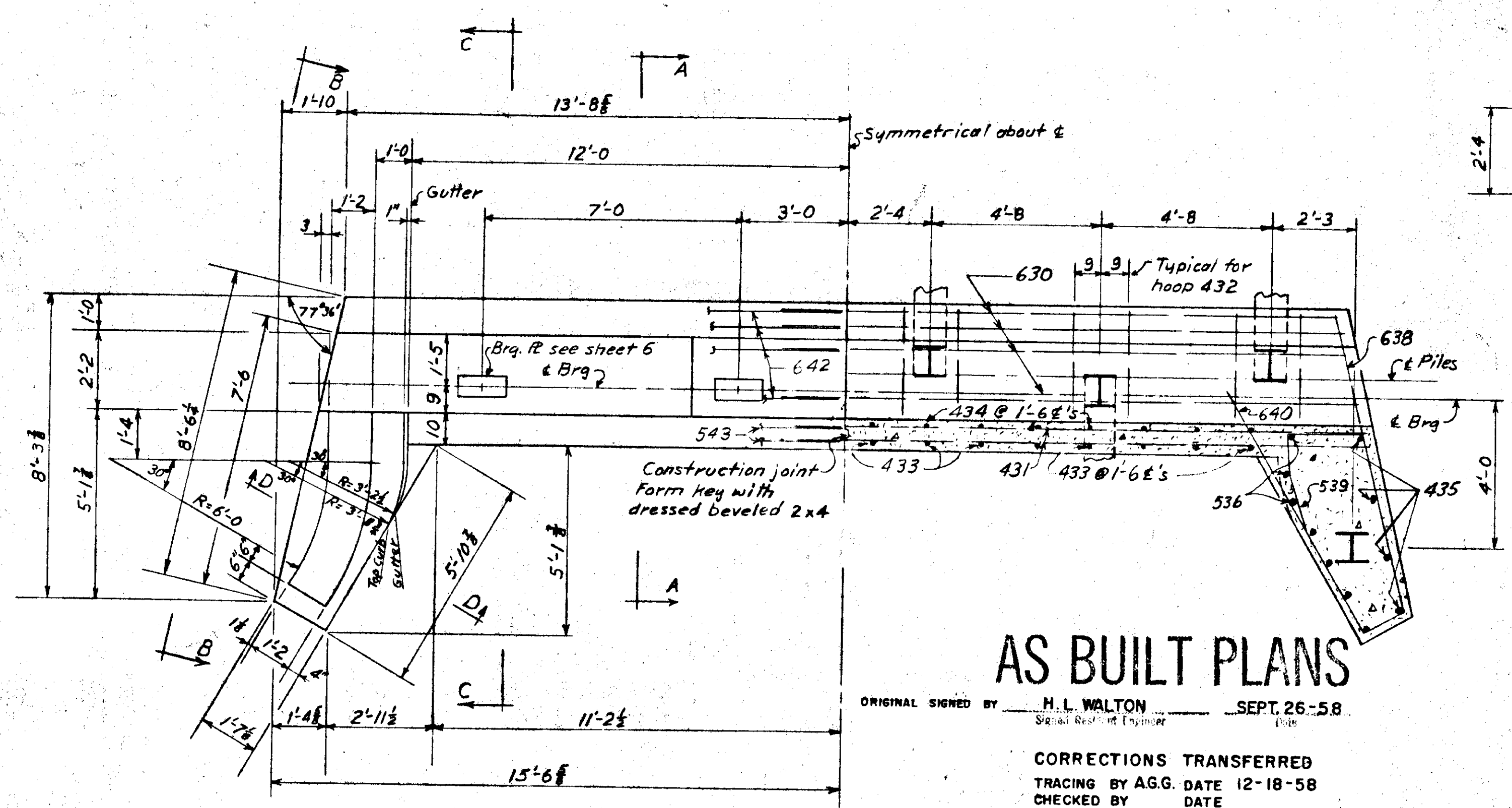


SECTION C-C
Scale: 3/8" = 1'-0"

SECTION D-D
Scale: 3/8" = 1'-0"

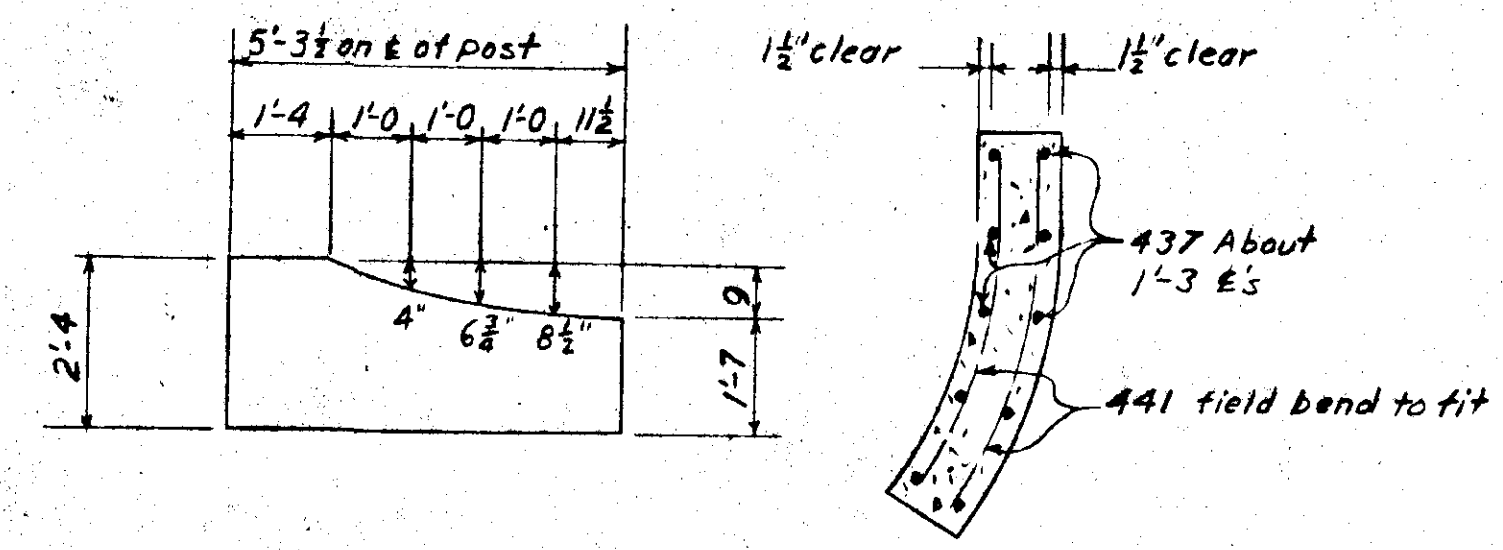
BILL OF REINFORCEMENT STEEL - 2 ABUTMENTS					
Mark	No.	Length	Weight	Shape	Location
630	16	15'-5"	372	Straight	Bridge seat, horiz. (stage II const.)
431	12	16'-2"	150	"	Backwall, horiz. (stage II const.)
432	24	13'-9"	221	See detail	Bridge seat, vertical
433	32	3'-10"	82	Straight	Backwall, vertical, back
434	32	3'-6"	75	"	" " front
435	16	6'-10"	73	"	Wing, outside, vert.
536	28	6'-10"	200	"	Wing, inside, vert.
437	40	2'-10"	76	"	Post, vert.
638	12	7'-3"	131	"	Wing, outside, horiz.
539	16	14'-5"	241	See detail	Wing, horiz.
640	12	7'-8"	138	Straight	Wing, inside, horiz.
441	16	5'-0"	53	"	Post, horiz. - (field bend)
642	16	13'-6"	325	"	Bridge seat, horiz. (stage III const.)
543	12	14'-3"	178	"	Backwall, horiz. (stage III const.)
		TOTAL	2,295		

① The first digit of the Mark No. indicates the nominal diameter of the bar in 1/8 inches.

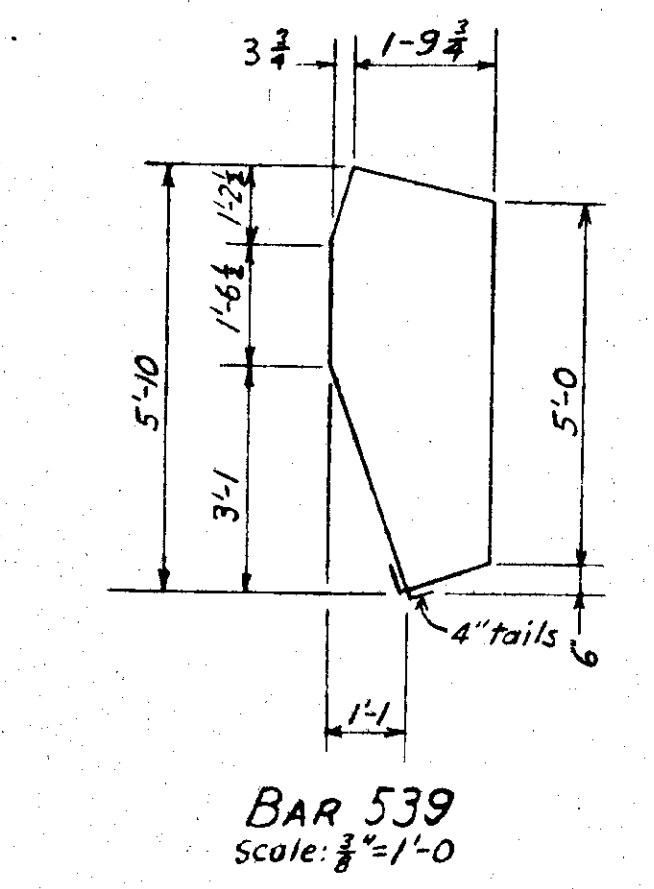


HALF PLAN

ABUTMENT PLAN
Scale: 3/8" = 1'-0"



WING POST DEVELOPED
Scale: 3/8" = 1'-0"

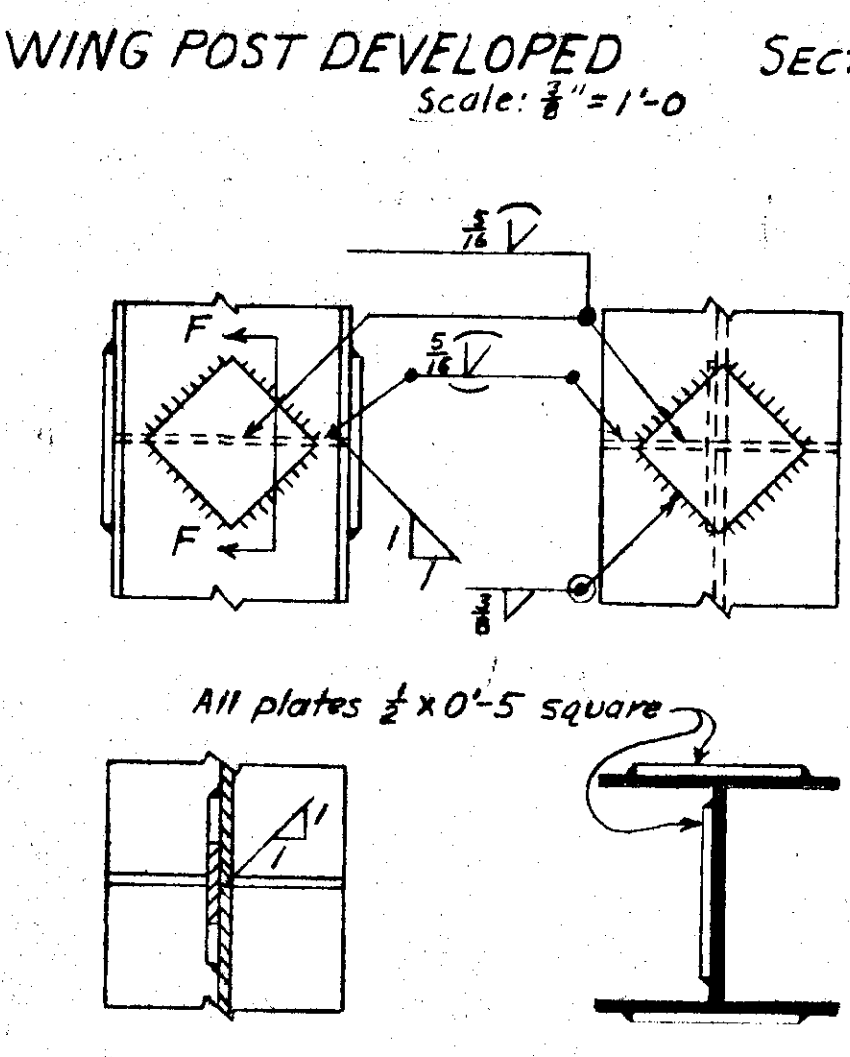


BAR 539
Scale: 3/8" = 1'-0"

SUBSTRUCTURE NOTES

Abutment bearing piles shall penetrate to at least elevation 110.0 and shall have a bearing value of at least 25 tons as determined by the formula in article 400-1.4 of the FP-57 specifications. Wing piles shall penetrate to at least elevation 110.0 and shall be driven to no particular bearing value. All exposed corners of the concrete except the wing posts shall be filleted with 3/8" dressed beveled strips. Edge distance to reinforcing bars shall be 3" clear unless otherwise stated. Spacing shown is to the center of the reinforcing bars except as otherwise shown. Reinforcement steel shall be intermediate grade. All concrete shall be Class "A".

All piles shall be 10 BP42 steel piles. Core stoppers as detailed on sheet 4 of 6 may be required to obtain bearing and they shall be used if ordered by the Engineer. Lumber for the core stoppers shall be untreated Douglas Fir 1700f Dense No. 1 Grade conforming to "Standard Grading & Dressing Rules," Book 15, as approved January 1, 1956 by the West Coast Lumber Inspection Bureau. See the Special Provisions. * The construction joint key shall be at least 1 1/2" in depth and shall be formed with dressed beveled lumber. The area of the key shall be at least 25% of the total area of the construction joint.



SECTION F-F
Note: Flame cut web and flange of upper section as shown. Butt weld joints and attach plates with fillet welds.

TYPICAL PILE SPLICE
Scale: 1 1/2" = 1'-0"

AS BUILT PLANS
ORIGINAL SIGNED BY **H. L. WALTON** SEPT. 26-58
Signal Resident Engineer

CORRECTIONS TRANSFERRED
TRACING BY A.G.G. DATE 12-18-58
CHECKED BY DATE

SECTION THROUGH BACKWALL AND WING

ESTIMATED QUANTITIES - 2 ABUTMENTS	
ITEM	QUANTITIES
Class A Concrete	49.7 cu. yd.
Reinforcement Steel, Int. Grade	2,295 lbs
Structural steel piles, 10 BP42, furnished	12 @ 40 @ 46.30 = 600 lin. ft.
Structural steel piles, 10 BP42, driven	16 ea.
Pile core stoppers	12 ea.
Excavation for Structures	100 cu. yd.

UNITED STATES
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS, REGION 10
JUNEAU, ALASKA
DESIGN FOR
500' X 24' I-BM BRIDGE
CONSISTING OF 10 SIMPLE 50' SPANS
ABUTMENT DETAILS

HIGHWAY: HAINES CUT-OFF BRIDGE NO. R.E. 95
DISTRICT: JUNEAU DIST. CHILKAT RIVER H-20-44 LOADING

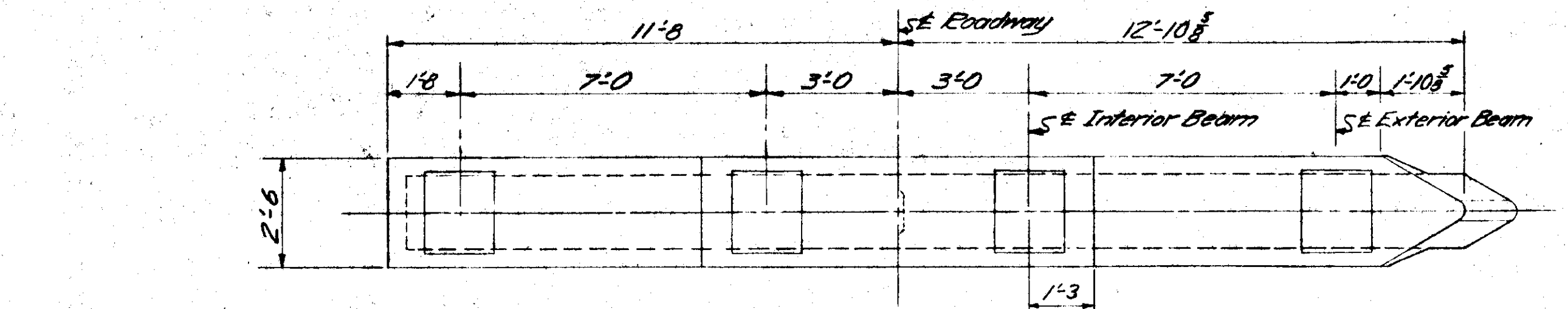
DESIGNED BY L.D.B.
DETAILED BY L.D.B.
TRACED BY L.D.B.
CHECKED BY L.D.B.

E. H. Swire
REGIONAL ENGINEER

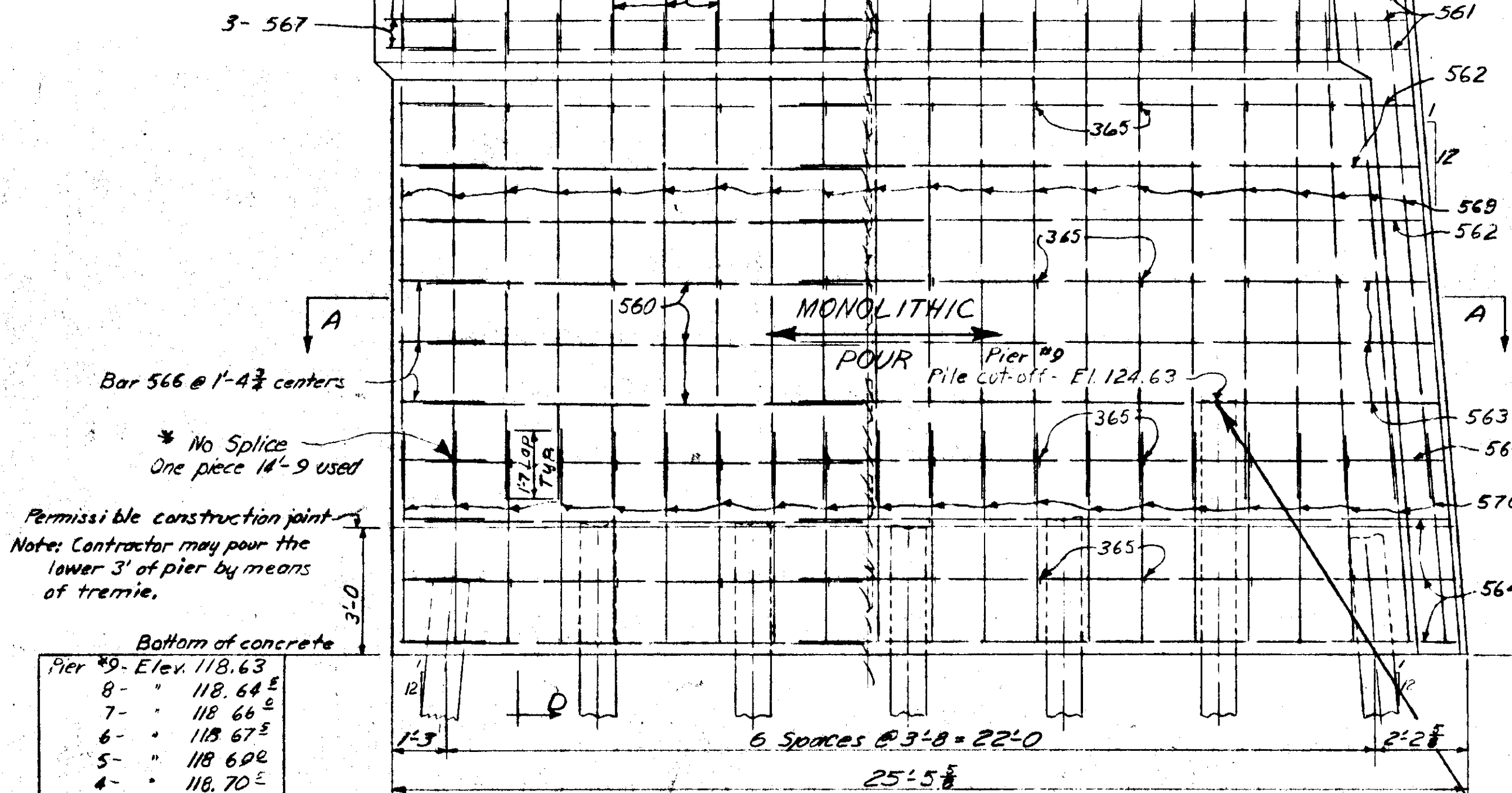
PROJECT NO. F-095-5(1)
DATE DECEMBER 1956 SHEET 2 OF 7 DESIGN NO. 1556

BM: Spike in corner of old log store 60' Right of sta. 1254+50 = El. 134.52

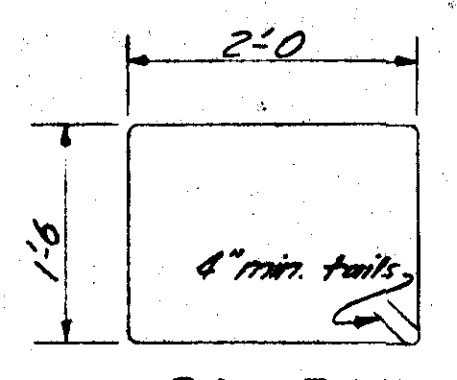
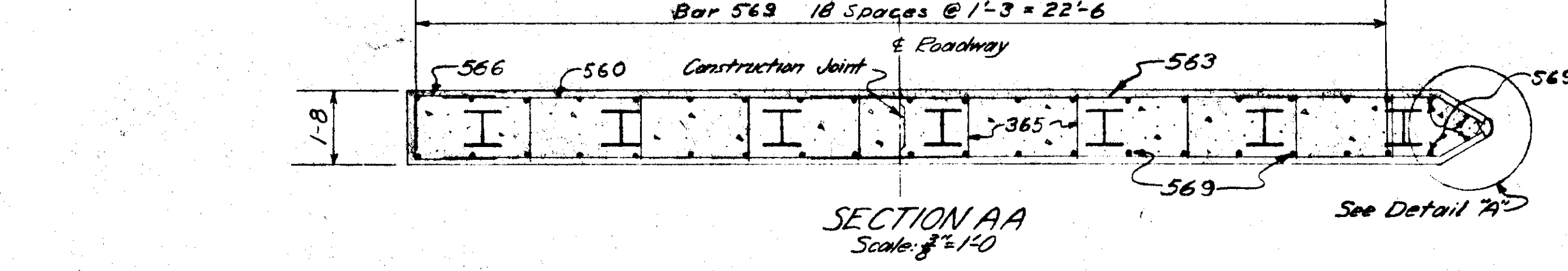
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP 95	5	1957	4	8



Pier #1	Bridge Seat El. 134.75
2	134.73
3	134.72
4	134.70
5	134.69
6	134.67
7	134.66
8	134.64
9	Bridge Seat El. 134.63

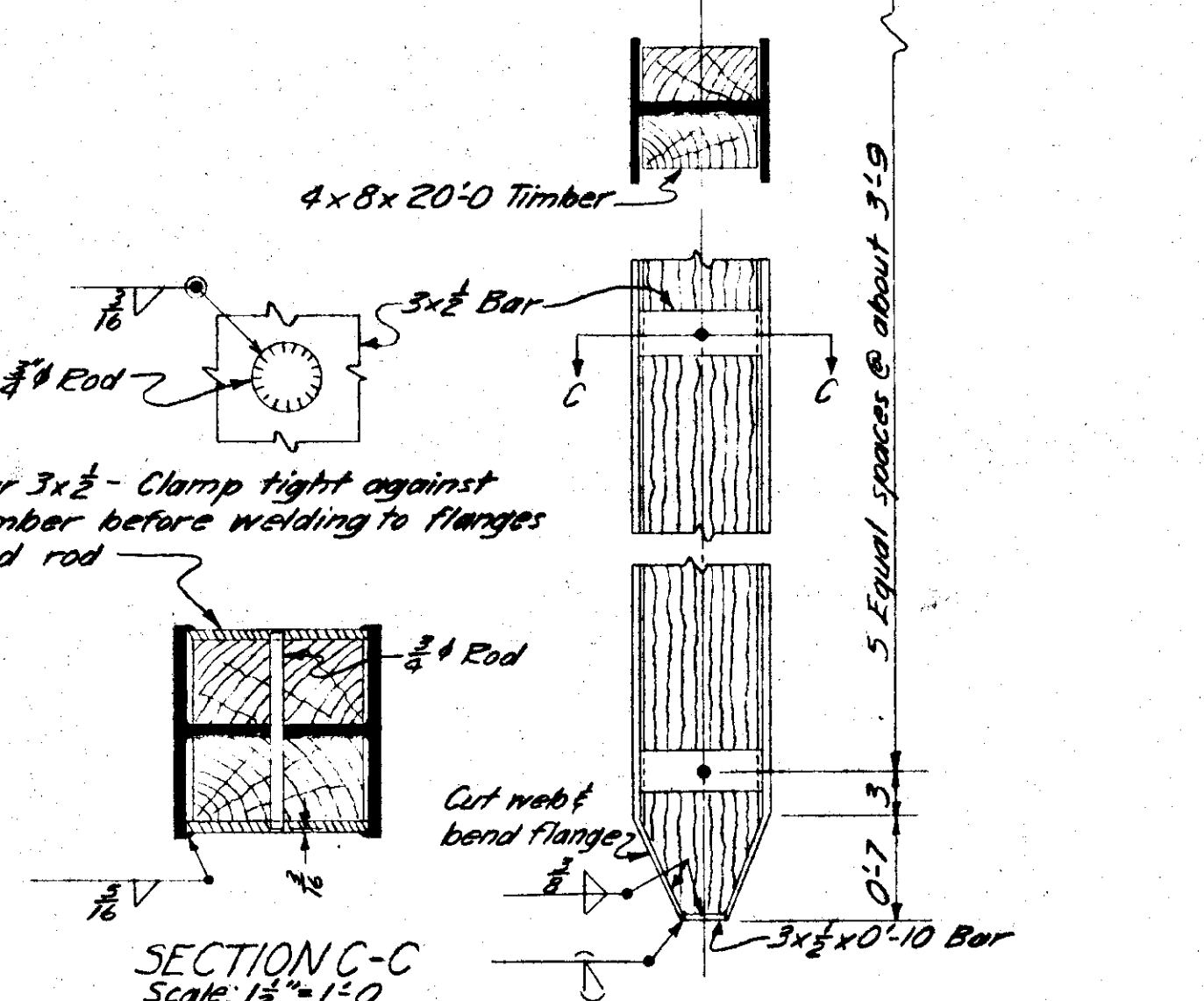
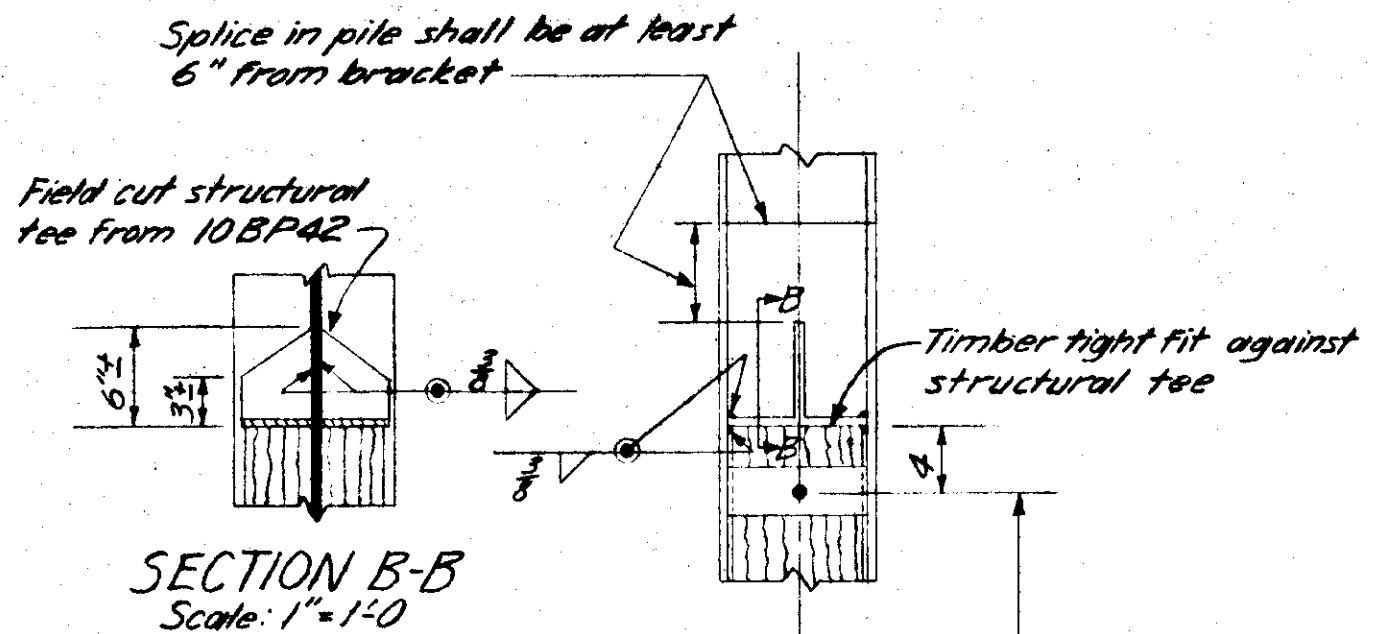


Pier #9	Elev. 118.63
8	118.64
7	118.66
6	118.67
5	118.69
4	118.70
3	118.72
2	118.73
1	118.75

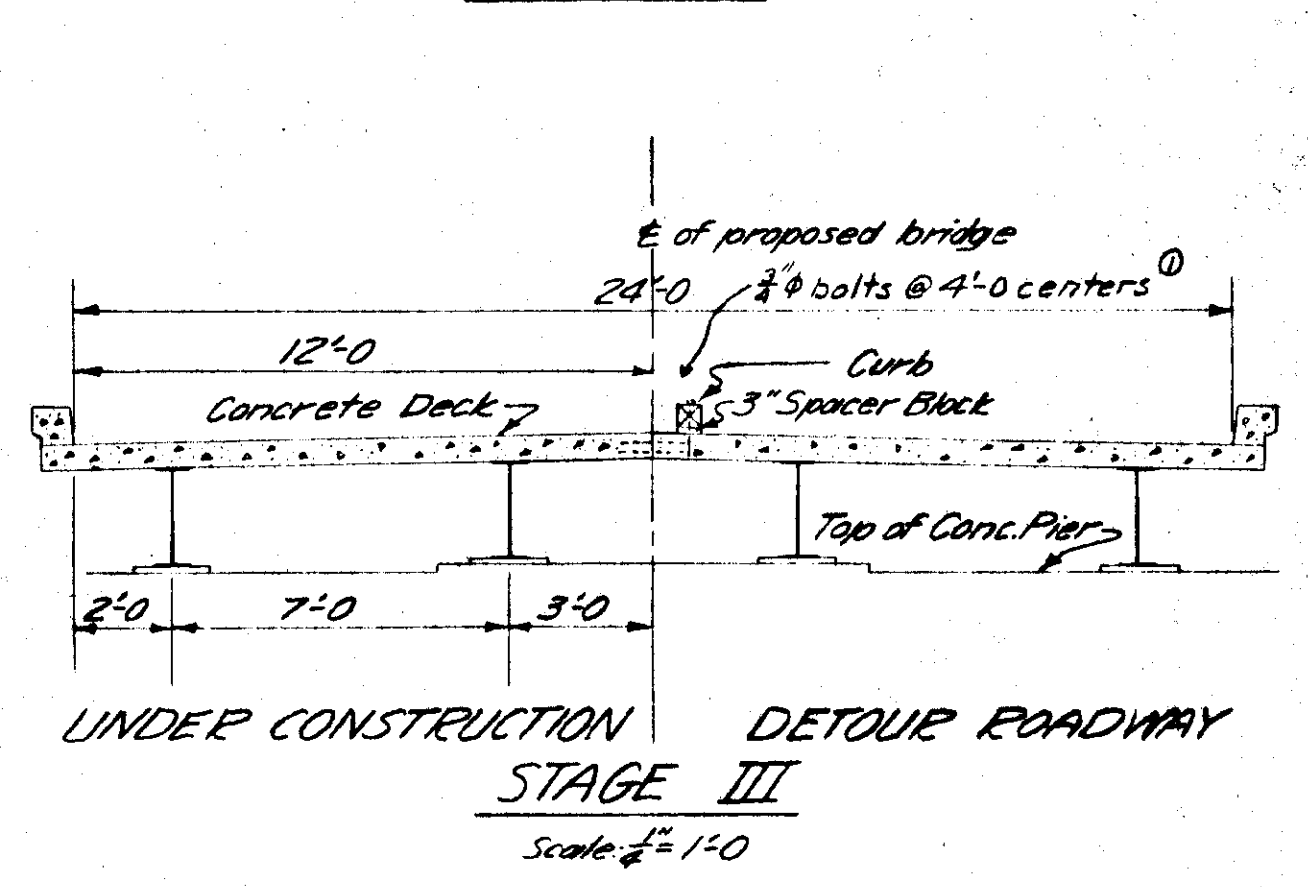
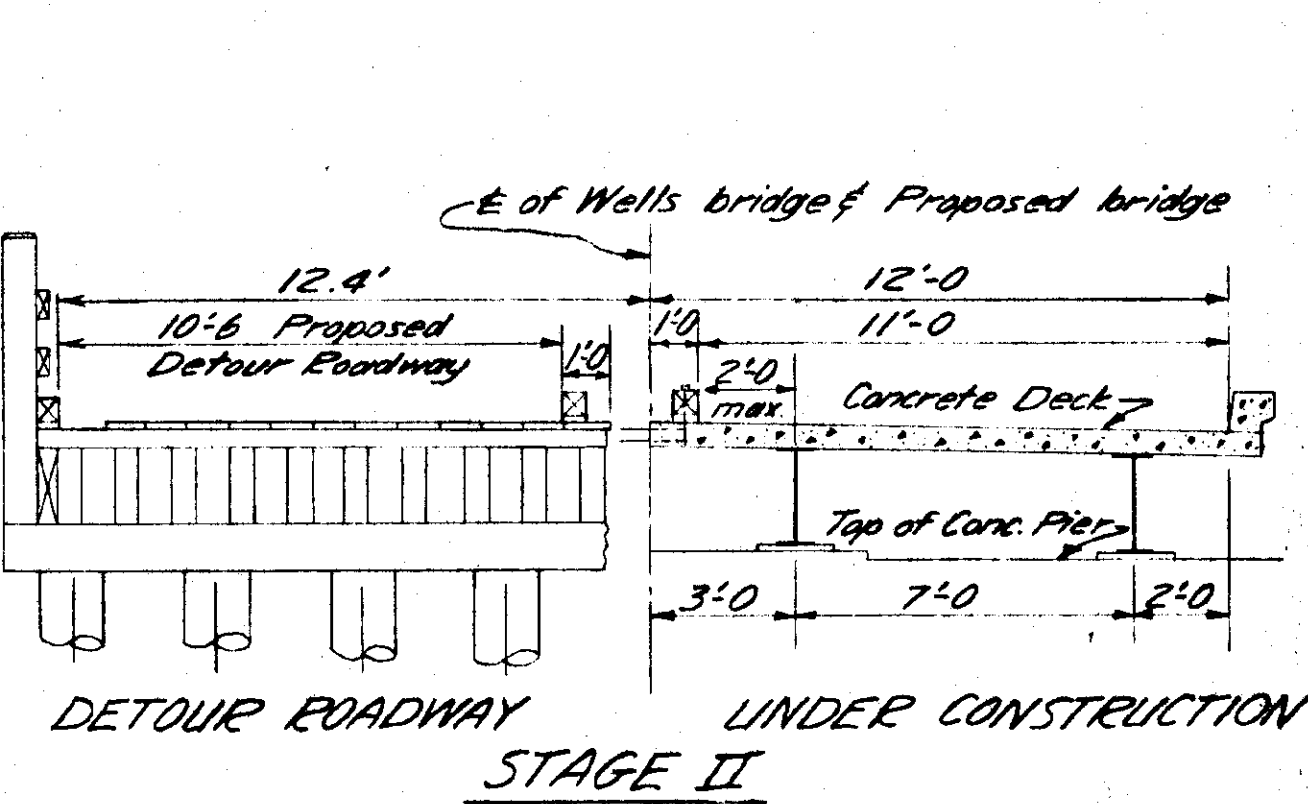
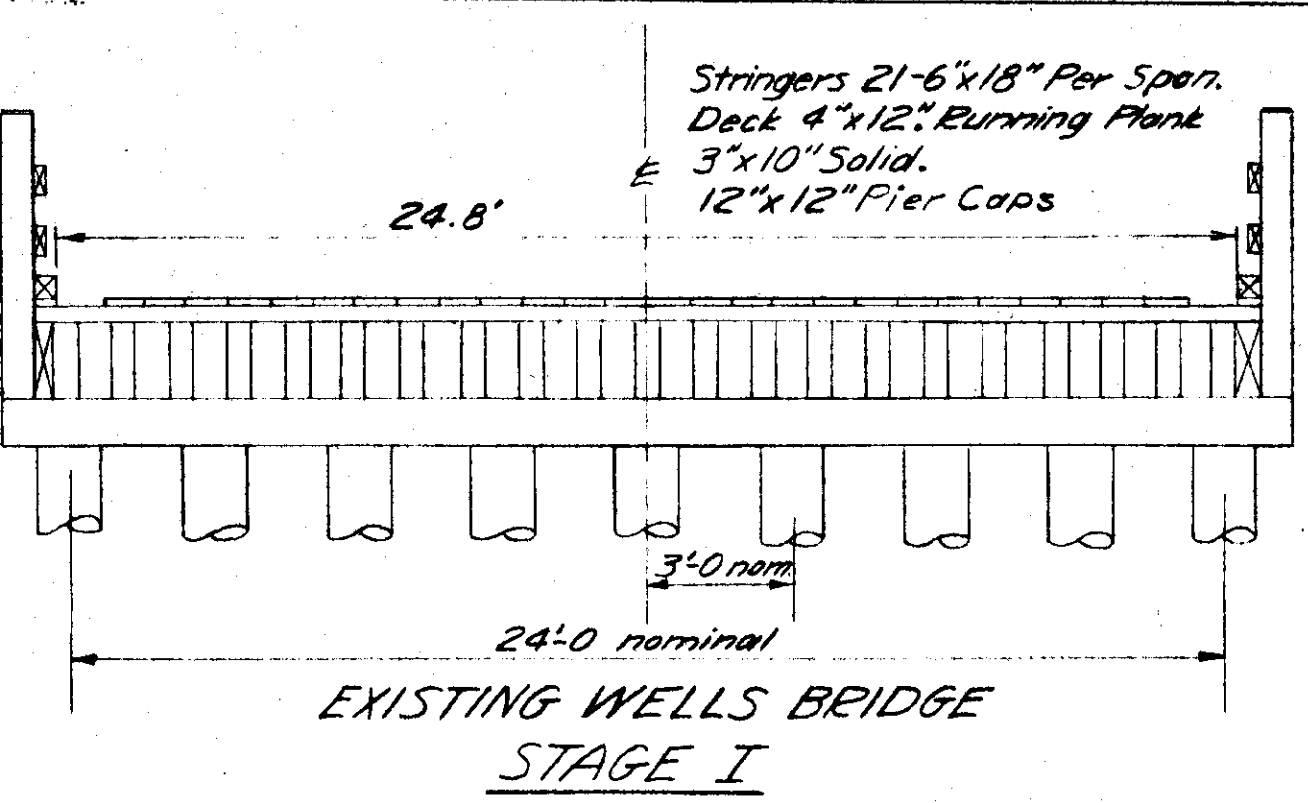


BAR 568
Scale: 3/8"=1'-0"

Note: Dimensions are out to out of bars.



PILE CORE STOPPERS
Scale: 1 1/2"=1'-0"



PIER NOTES

All pier bearing piles shall penetrate to at least elevation 98.0 and shall have a bearing value of at least 25 tons as determined by the formula in Article 400-1.4 of the FP-57 Specifications.

All piles shall be 10BP42 steel piles.

Core stoppers as detailed on this sheet may be required to obtain bearing and they shall be used if ordered by the Engineer. Lumber for the core stoppers shall be untreated Douglas Fir 1700F Darnse No. 1 Grade conforming to "Standard Grading & Dressing Rules" Book 15 as approved January 1, 1956 by the West Coast Lumber Inspection Bureau. See Special Provisions.

Edge distance for reinforcement bars shall be 3" clear unless otherwise noted. Spacing shown is to the center of the reinforcement bars except as otherwise shown.

Reinforcement bars shall be intermediate grade.

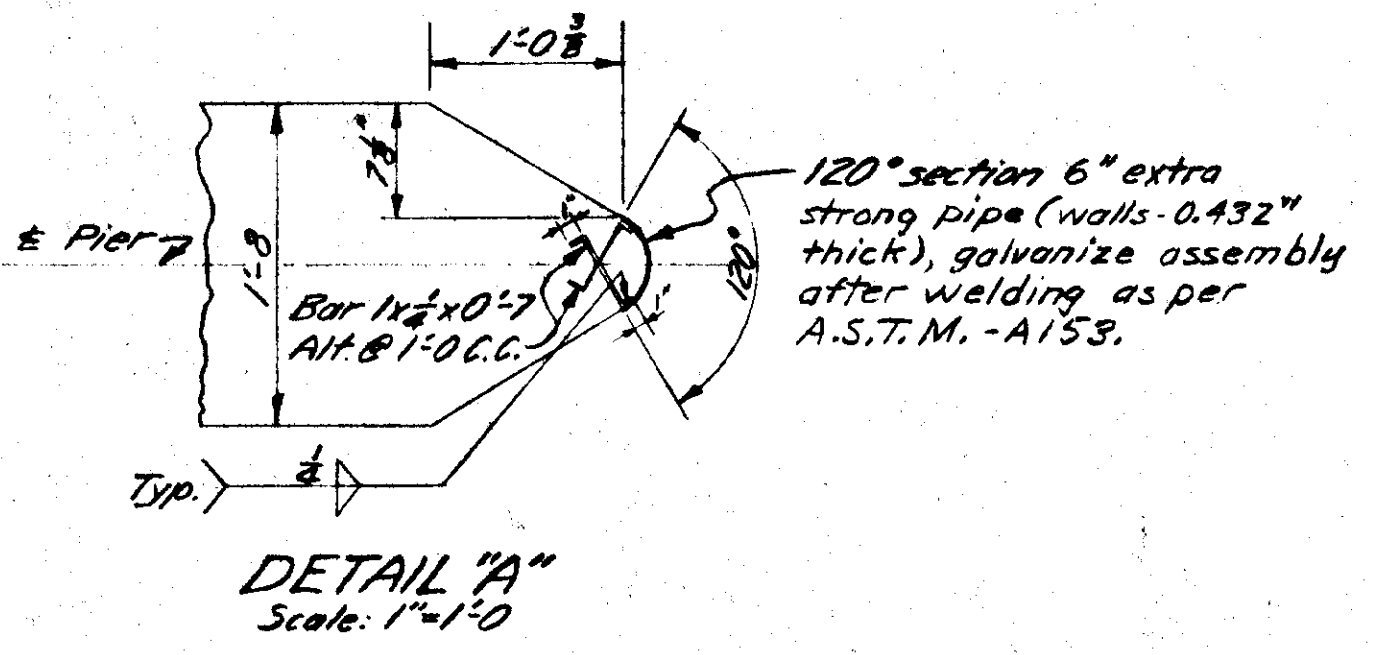
All exposed corners of 90° or sharper shall be chamfered with 1/2" dressed beveled strips.

Construction joint keys shall be formed by dressed beveled lumber and shall be placed with long dimension at right angles to the direction of shear. The keys shall be at least 1 1/2" in depth and each shall have an area of not more than one square foot. The total area of the keys shall be approximately 25% of the total area of the construction joint.

All concrete shall be Class "A".

MARK	NO.	SIZE	LENGTH	WEIGHT	SHAPE	LOCATION
560	26	5	10'-6	285 lbs.		Pier shaft & co. - Horiz.
561	6	5	14'-5	90 lbs.	1'-9"	Pier cap - Horiz.
562	6	5	14'-11	93 lbs.	1'-0"	Pier shaft - Horiz.
563	6	5	15'-3	96 lbs.	1'-0"	Pier shaft - Horiz.
564	8	5	15'-9	131 lbs.	1'-0"	Pier shaft - Horiz.
365	36	3	2'-0	27 lbs.	1'-0"	Pier shaft tie bars
566	10	5	5'-4	56 lbs.	1'-4"	Downstream end - Horiz.
567	3	5	6'-9	21 lbs.	1'-11"	" " " "
568	19	5	7'-8	152 lbs.	See Detail	Pier cap - Vert.
* 569	42	5	4'-4	485 lbs.		Pier shaft - Vert.
570	42	5	4'-4	485 lbs.		" " " "
Total				1655 lbs.		

ESTIMATED QUANTITIES - NINE PIERS	
ITEM	QUANTITIES
Class A Concrete	230.8 cu. yd.
Reinforcement Steel, Int. Grade	14,800 lbs. 14,364
Structural Steel Piles, 10BP42, Form.	63 6' x 8" = 377 1/2 lin. ft. 3,156
Structural Steel Piles, 10BP42, Driven	63 ea.
Pile Core Stoppers	42 ea. 62



Note: Weight of nose assembly is included in the Superstructure Estimate for Structural Steel A7.

AS BUILT PLANS

ORIGINAL SIGNED BY H. L. WALTON SEPT. 26 - 58
Registered Professional Engineer Date

CORRECTIONS TRANSFERRED
 TRACING BY A.G.G. DATE 12-18-58
 CHECKED BY _____ DATE _____

UNITED STATES
 DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS, REGION 10
 JUNEAU, ALASKA
 DESIGN FOR
500' X 24' I-BEAM BRIDGE
 CONSISTING OF 10-50' SPANS

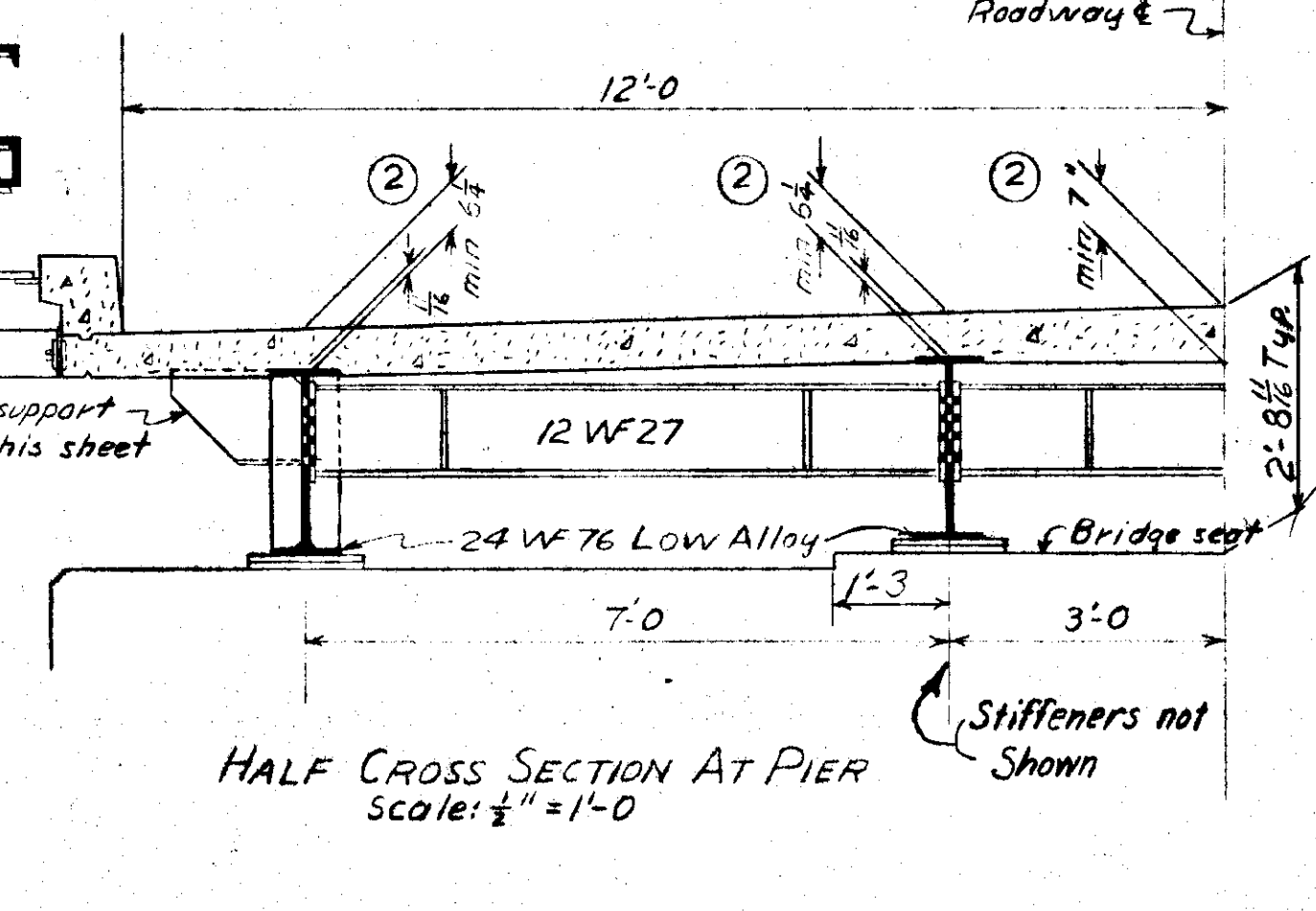
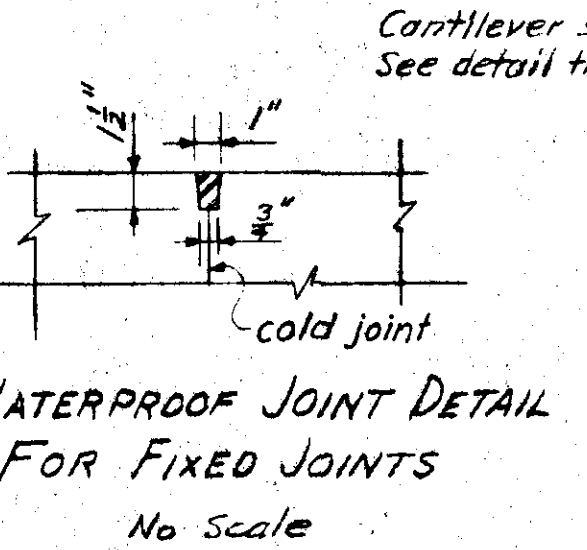
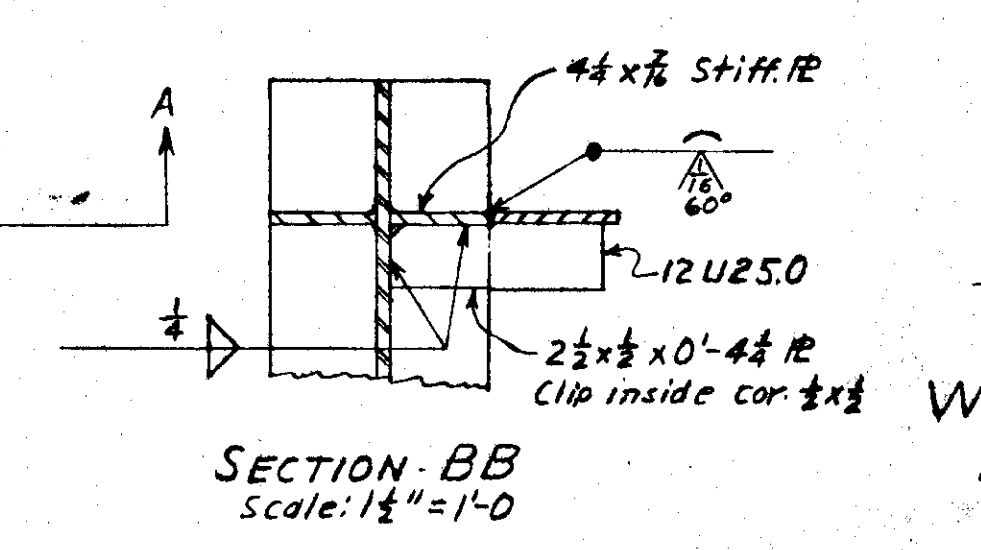
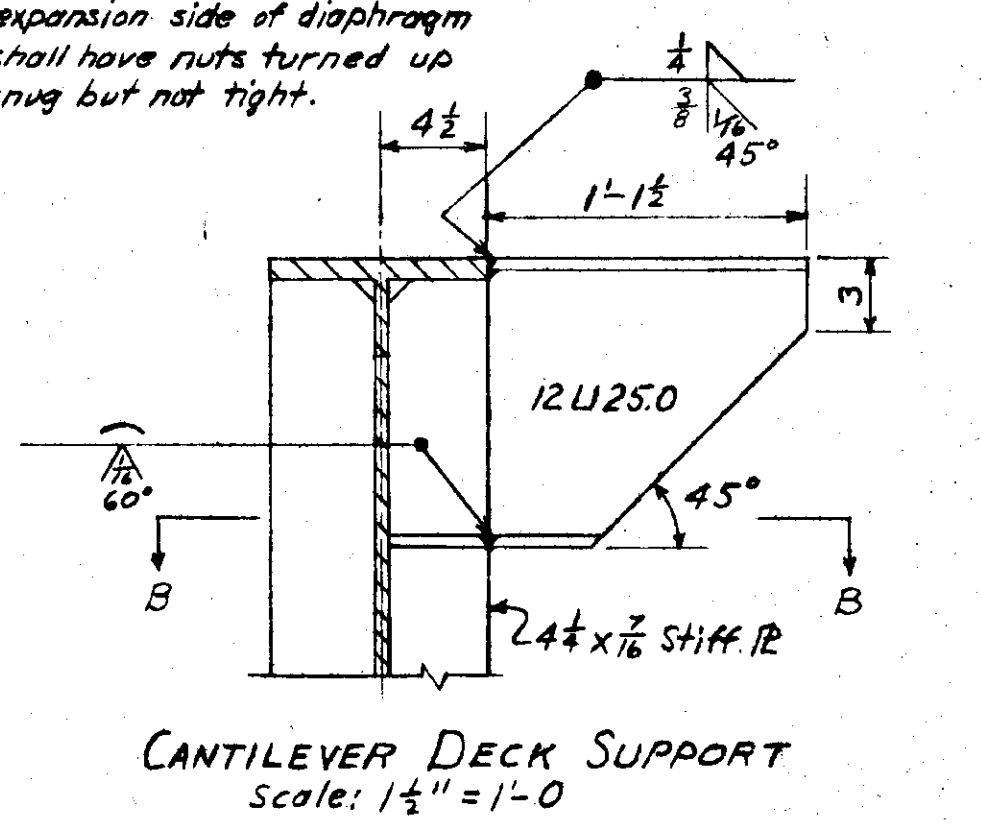
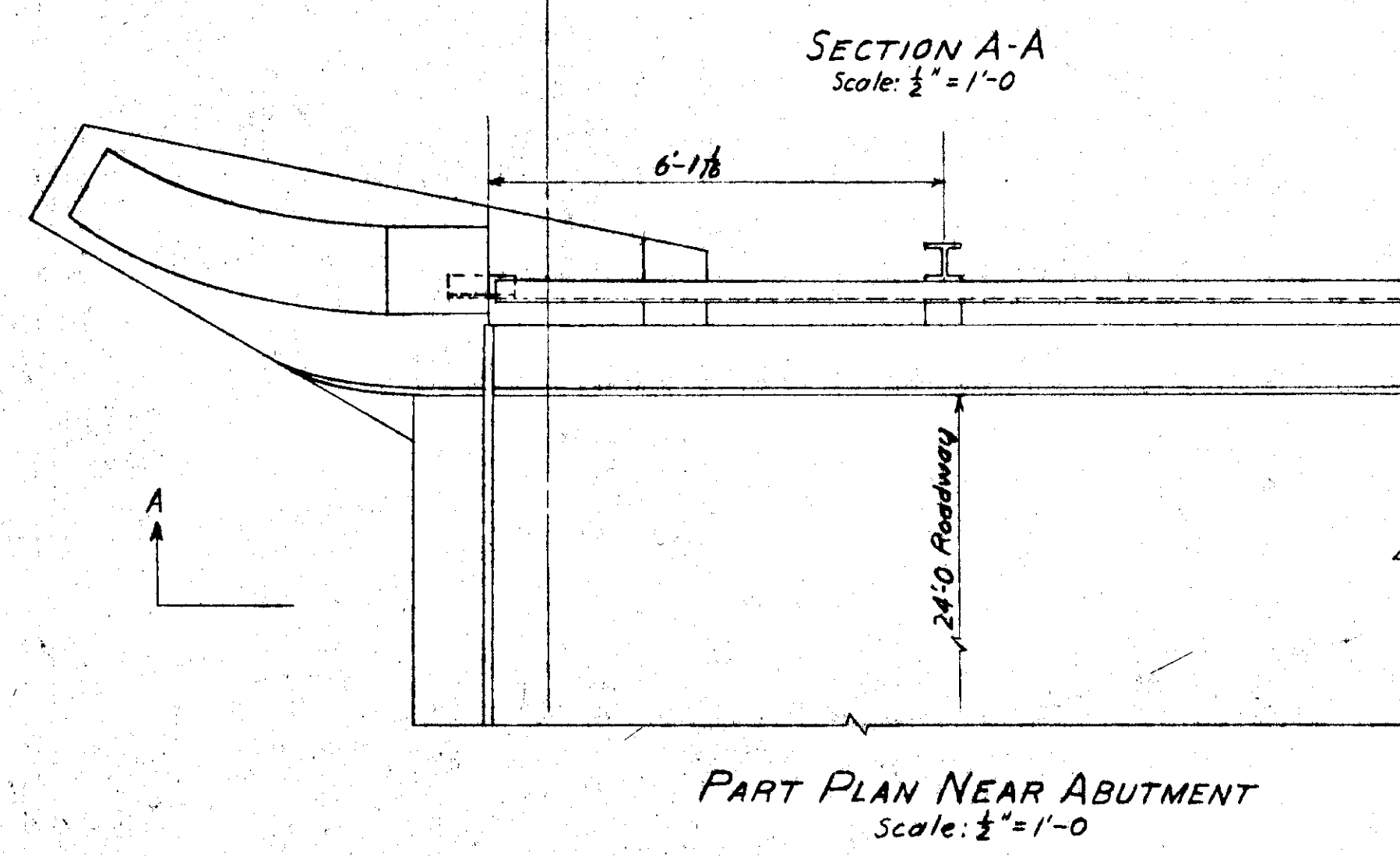
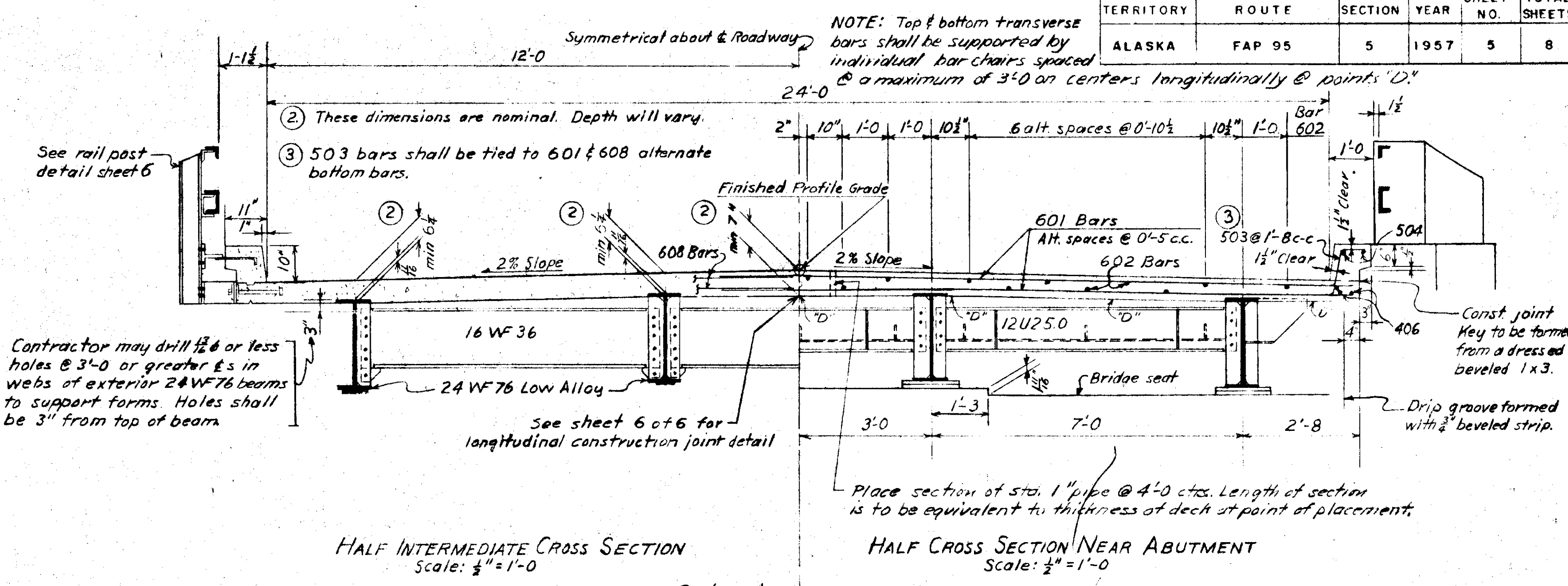
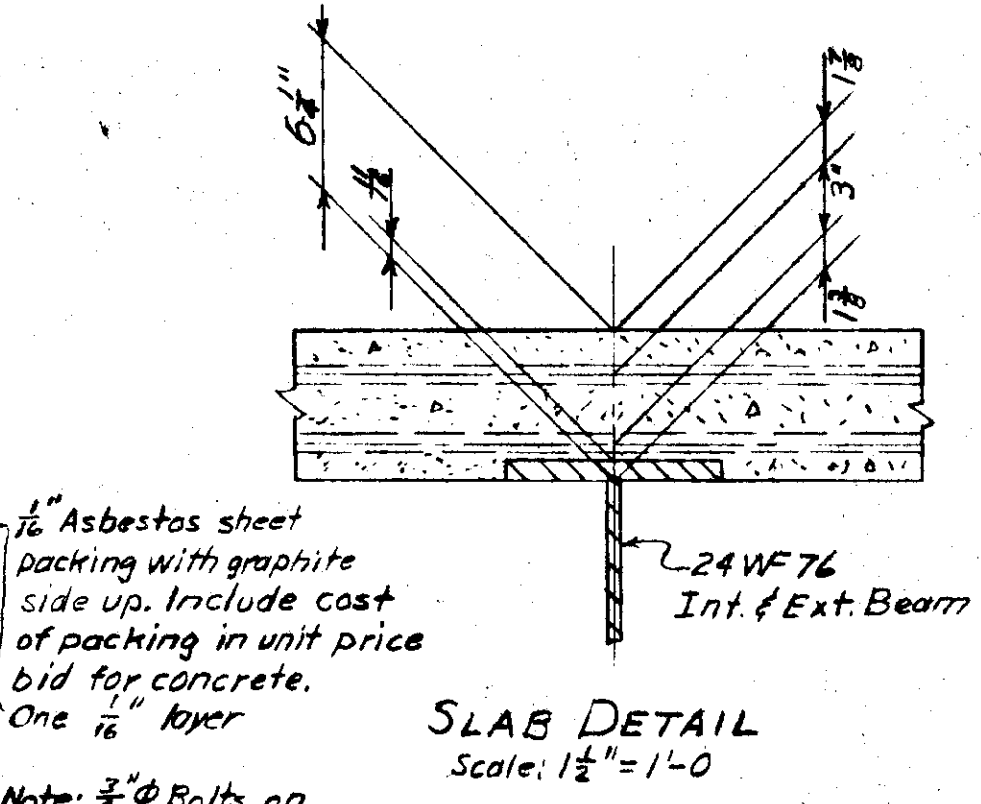
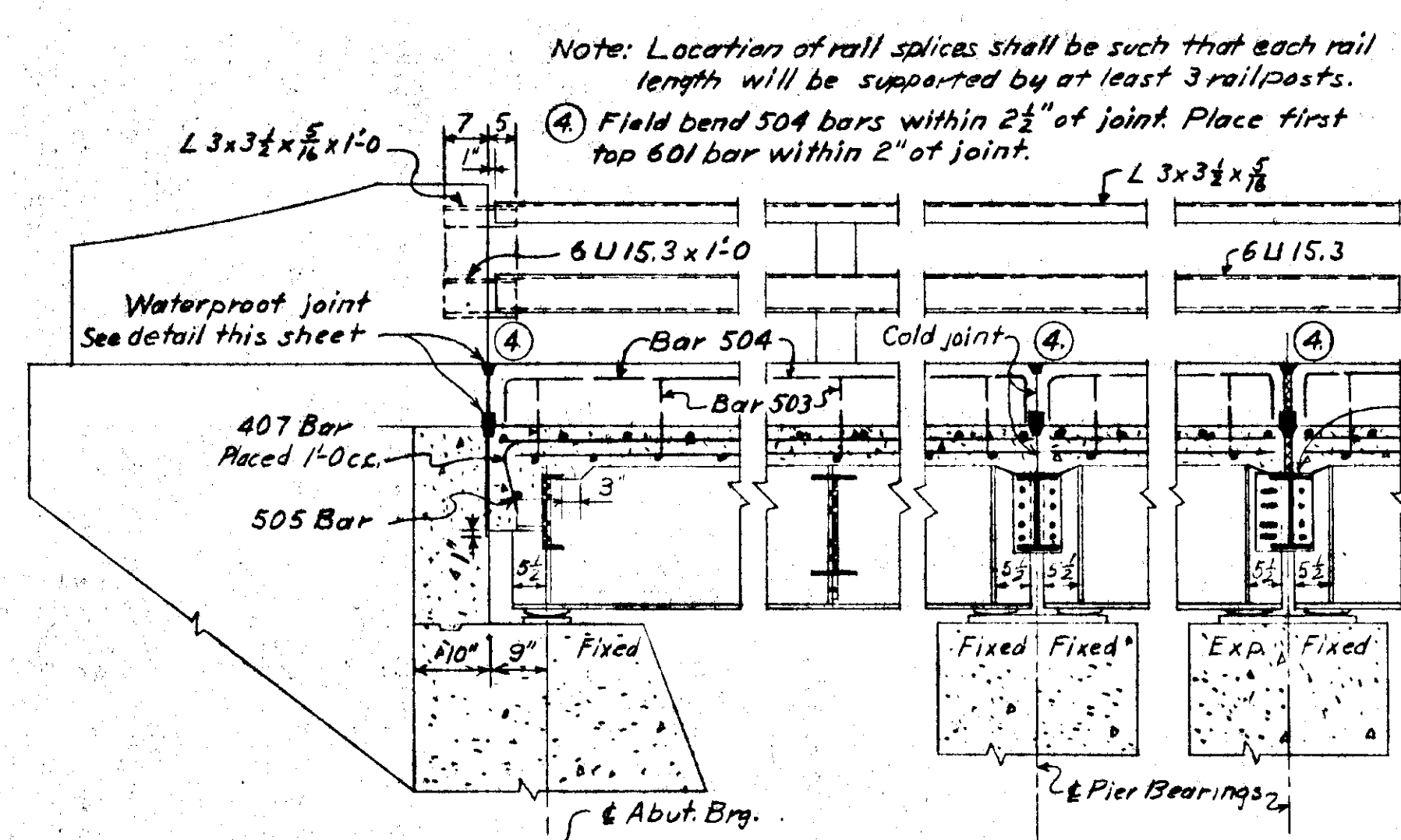
PIER DETAILS

HIGHWAY-HAINES CUT-OFF
 DISTRICT-JUNEAU DISTRICT
 CHILKAT RIVER

BRIDGE NO. 95
 H20-44 LOADING

APPROVED
E. H. ...
 REGIONAL ENGINEER

PROJECT NO. F-095-5(1) DATE, DEC 1958 SHEET 3 OF 7 DESIGN NO. 1556



SUPERSTRUCTURE NOTES

Unless otherwise designated all structural steel field connections shall be made with 3/4" unfinished machine bolts fitted with an S.A.E. lock washer. Open holes for 3/4" bolts shall be 1 1/2". The structural steel estimate includes weights for bolts plus 5% extra.

All structural steel shall conform to A.S.T.M. designation A-7 (carbon steel) except the beams and cover plates which shall conform to A.S.T.M. A-242 (low alloy steel). The bottom flanges of all beams shall be perpendicular to the webs at reaction points. The beams have been designed for composite action with the slab for resisting positive live load bending moment; the shear lugs insure this composite action.

Forms for slab shall be supported by the beams. Top 1/2" of slab is considered a wearing surface.

All exposed corners of concrete which are 90° or sharper shall be filled with 1/2" dressed beveled strips.

Point shall be omitted from all surfaces of steel in contact with concrete. These surfaces shall be thoroughly cleaned before the concrete is placed.

All reinforcement steel shall be intermediate grade.

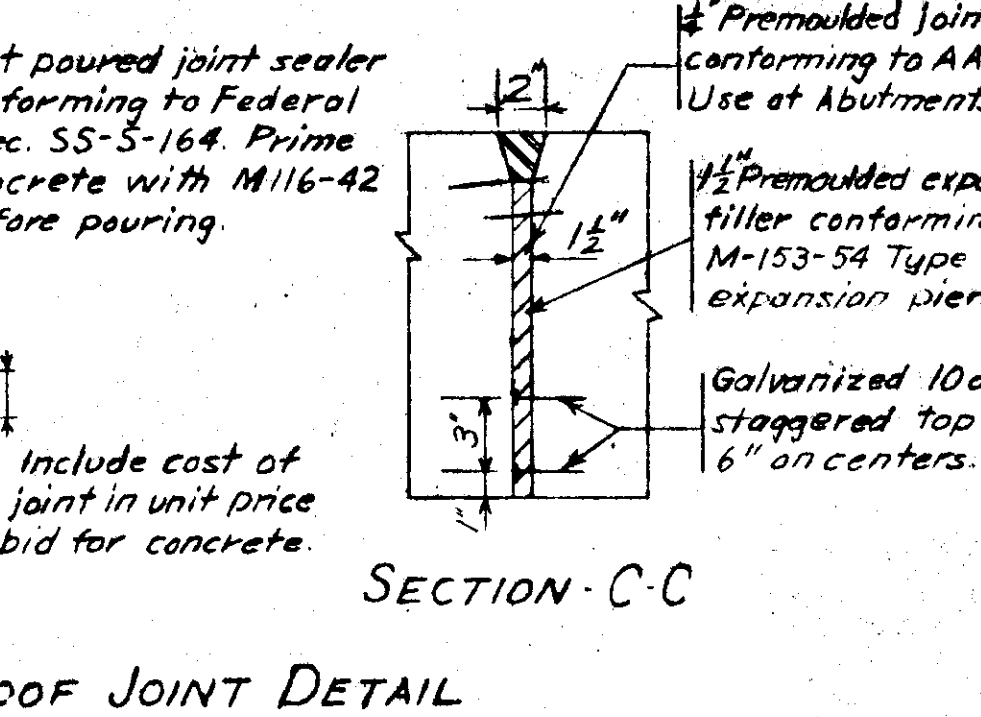
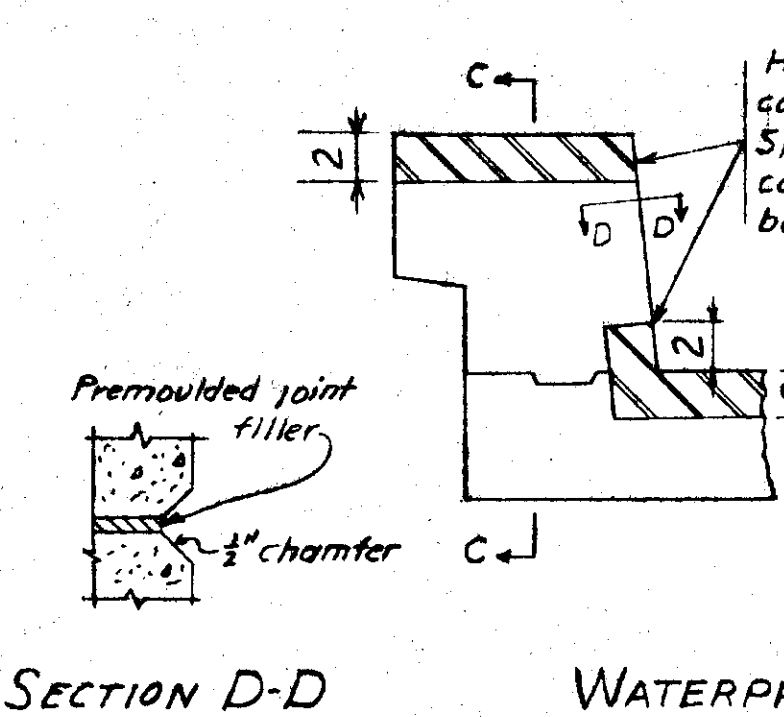
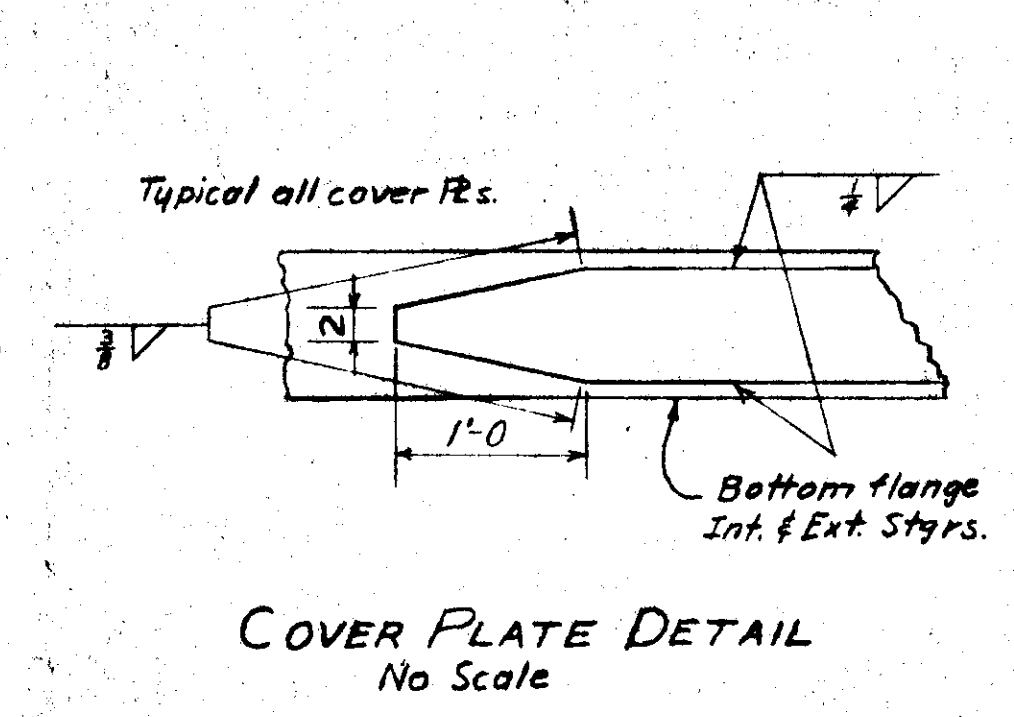
All bar chairs shall be galvanized. Concrete mortar blocks may be used in lieu of bar chairs to support bottom bars only.

Minimum clear distances for reinforcing steel shall be 2" unless otherwise noted.

Reinforcement dimensions are to center of bars.

Masonry plates shall be flat and true.

Standard 1" galvanized pipes shall be cast in the deck at 4'-0" centers to accommodate 3/4" bolts for fastening the temporary curb to the deck. The pipes shall be dry-packed with grout at completion of the bridge. The contractor may submit for approval of the engineer other methods for attaching the temporary timber curb. The cost of pipes or inserts shall be included in the bid price for concrete.



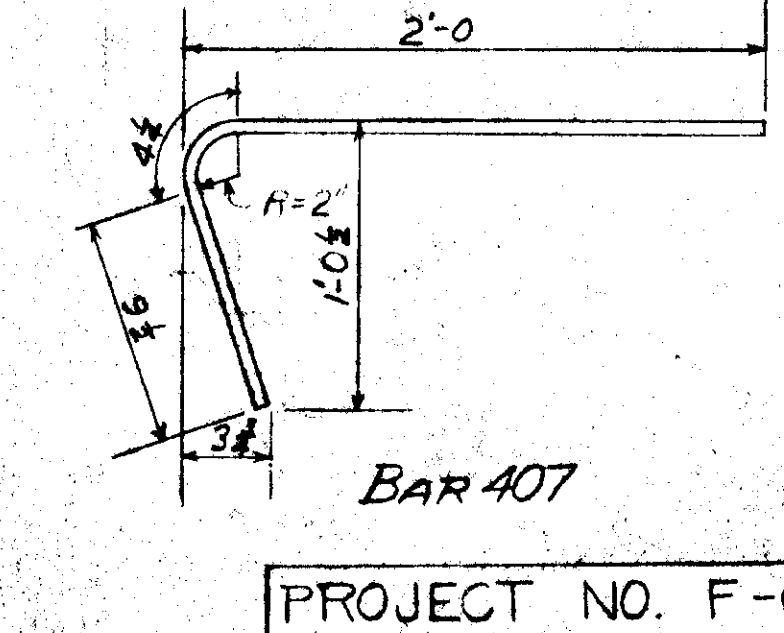
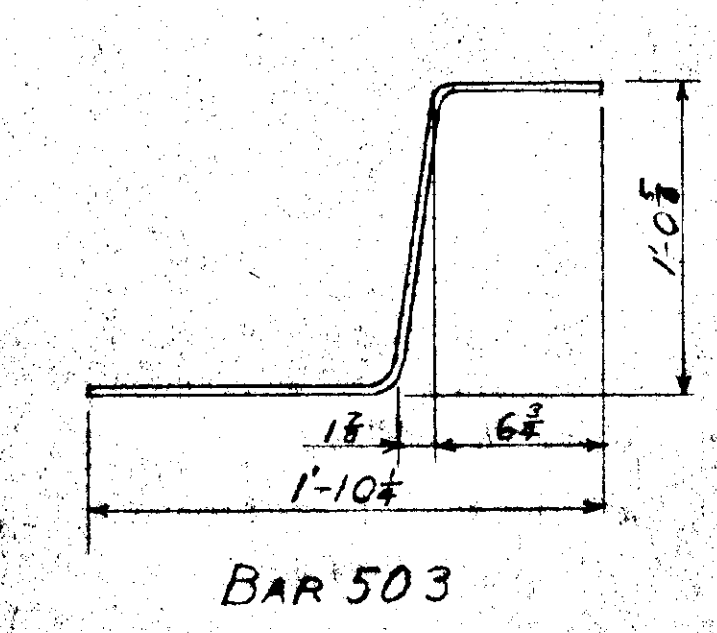
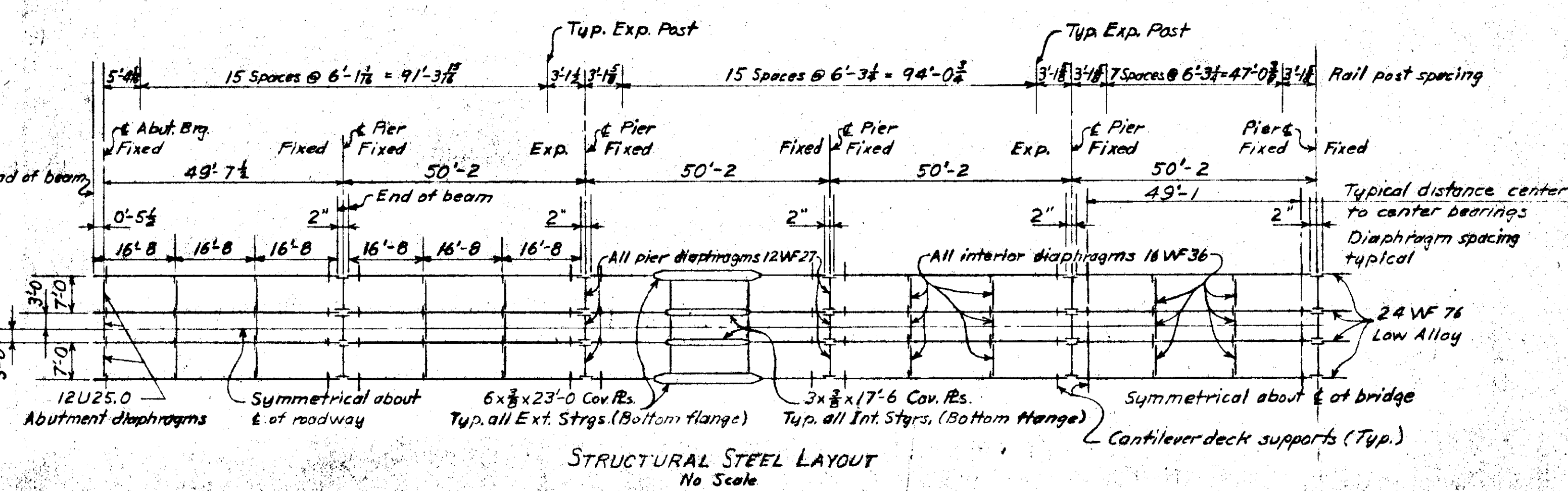
BILL OF SUPERSTRUCTURE REINFORCEMENT STEEL

Mark	No.	Length	Weight	Shape	Location
601	1210	14'-6"	26,353	Straight	Top & bottom slab (trans.-stage I const)
602	420	25'-8"	16,194	"	" " " (longitudinal)
503	620	2'-9"	1,778	See Detail	Curb to Slab
504	80	26'-0"	2,169	Straight	Top of curb (longitudinal)
505	2	18'-0"	38	"	End diaphragm (transverse)
406	80	25'-6"	1,363	"	Top & bottom slab (longitudinal)
407	40	3'-0"	80	See Detail	End diaphragm
608	1210	12'-6"	22,716	Straight	Top & bottom slab (trans.-stage II const)
		Total	70,690*		

① Note: The first digit of the Mark No. is the nominal diameter of the bar in inches.

② Note: Field cut bar 505 to fit between beams.

AS BUILT PLANS
ORIGINAL SIGNED BY H. L. WALTON
SEPT. 26 - 58



ESTIMATED QUANTITIES (SUPERSTRUCTURE)

Item	Quantities
Class A concrete	269.2 cu.yd.
Reinforcement Steel, Inter Grade	70,690 lbs.
Structural Steel, A7	81,875 lbs.
Structural Steel, A 242 (Low Alloy)	156,840 lbs.

UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS, REGION 10
JUNEAU, ALASKA
DESIGN FOR

500'x24' 1-BM BRIDGE
CONSISTING OF 10 SIMPLE 50' SPANS

SUPERSTRUCTURE DETAILS

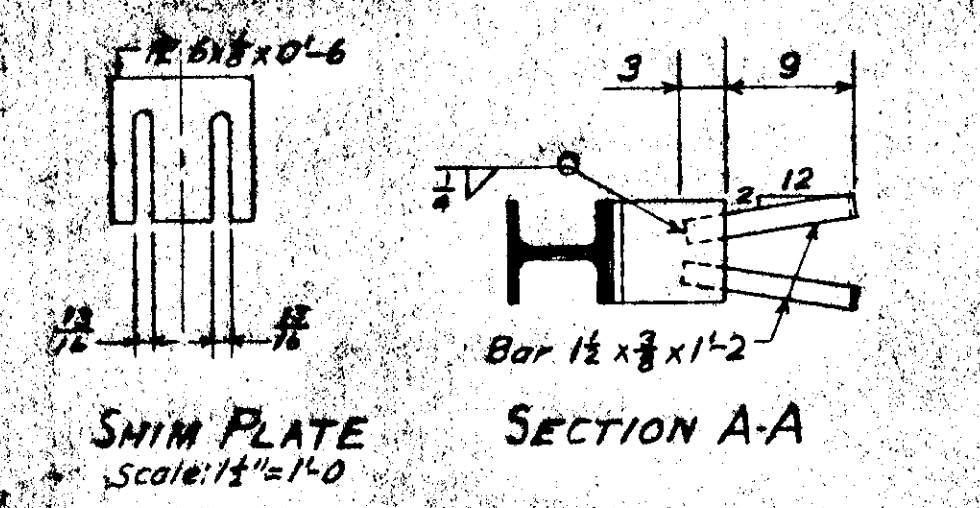
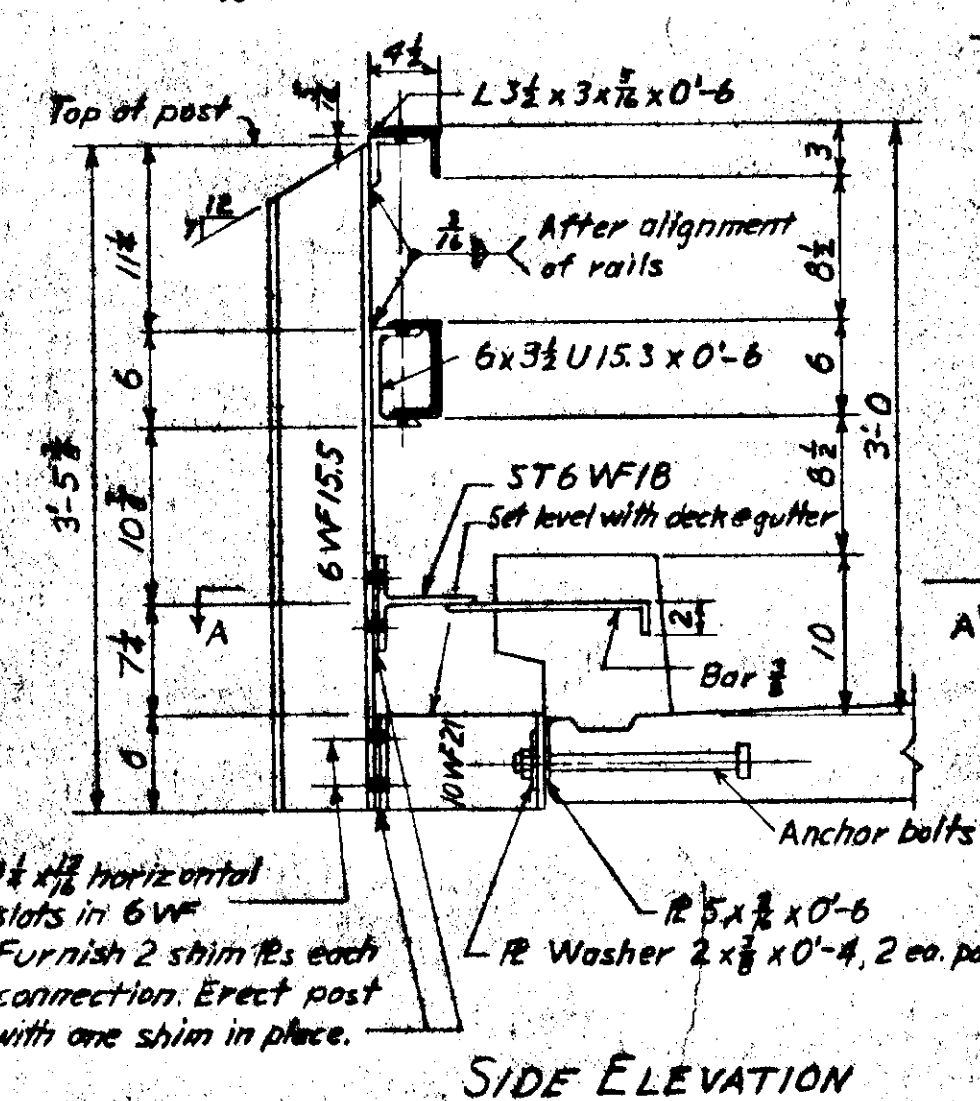
HIGHWAY: HAINES CUT-OFF BRIDGE NO. 195
DISTRICT: JUNEAU DIST. CHILKAT RIVER H-20-44 LOADING

DESIGNED L.D.B. APPROVED: [Signature]
CHECKED L.D.B. REGIONAL ENGINEER

PROJECT NO. F-095-5(1) DATE: DECEMBER 1958 SHEET 4 OF 7 DESIGN NO. 1556

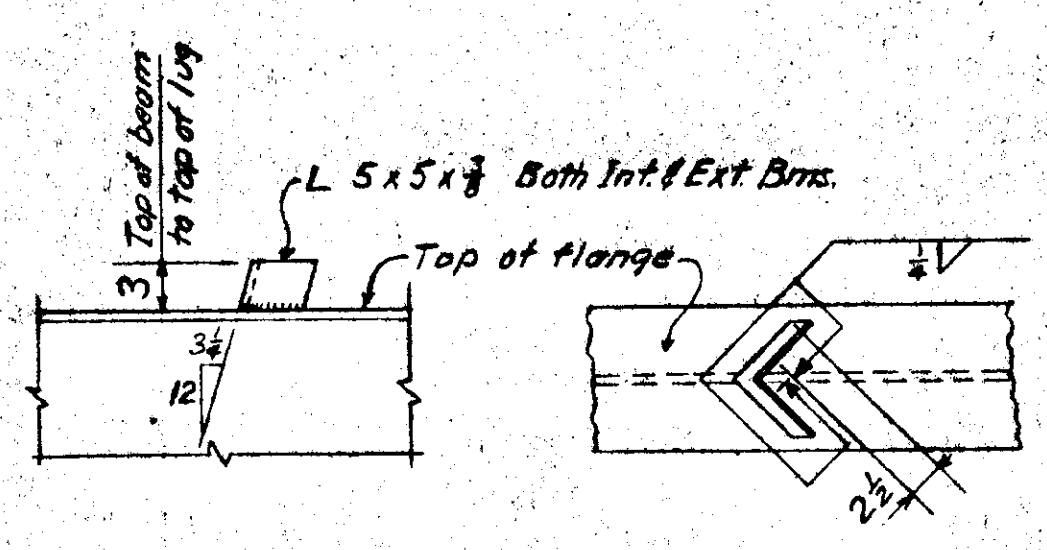
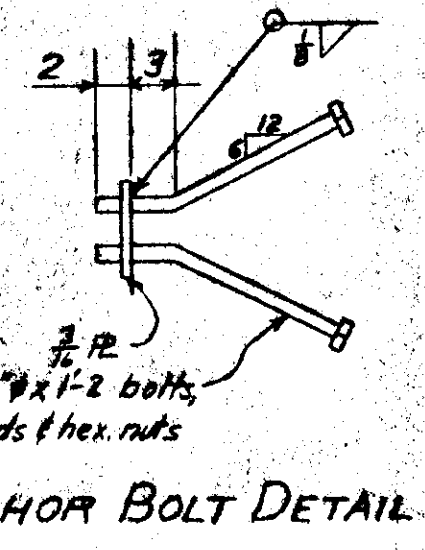
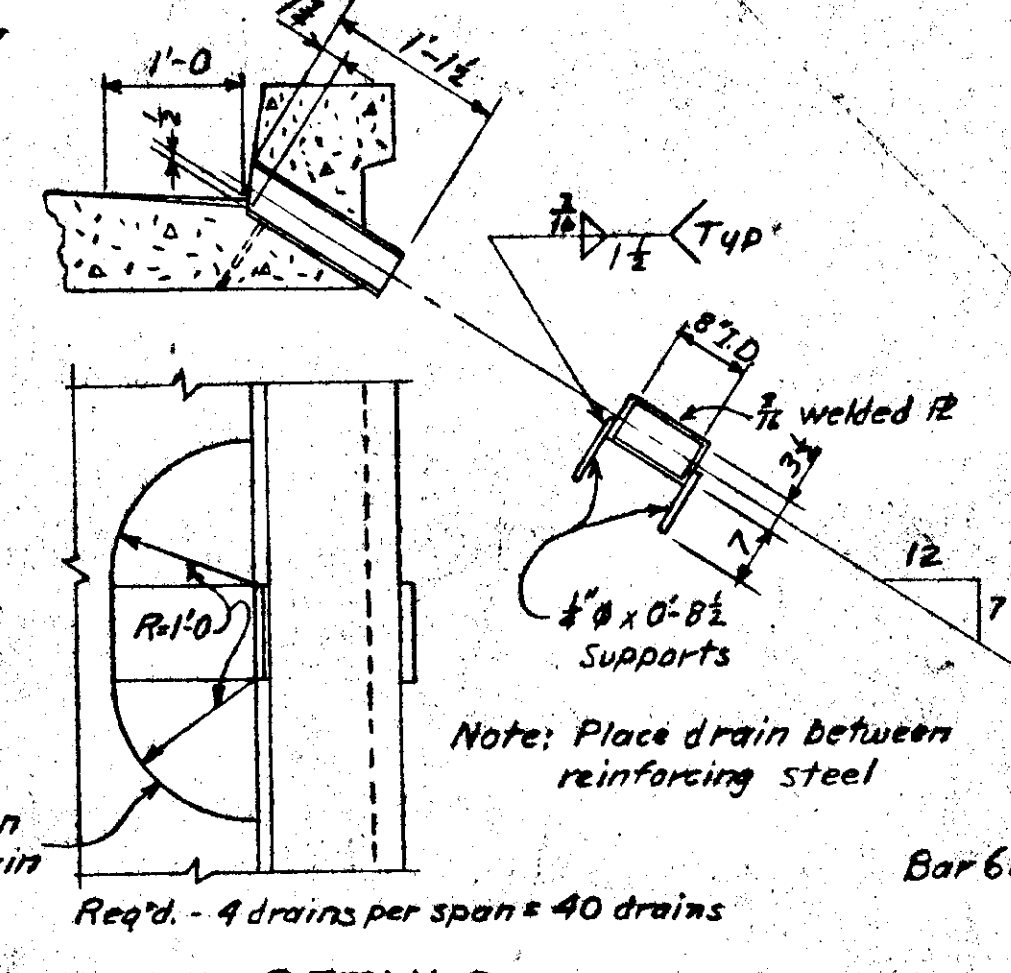
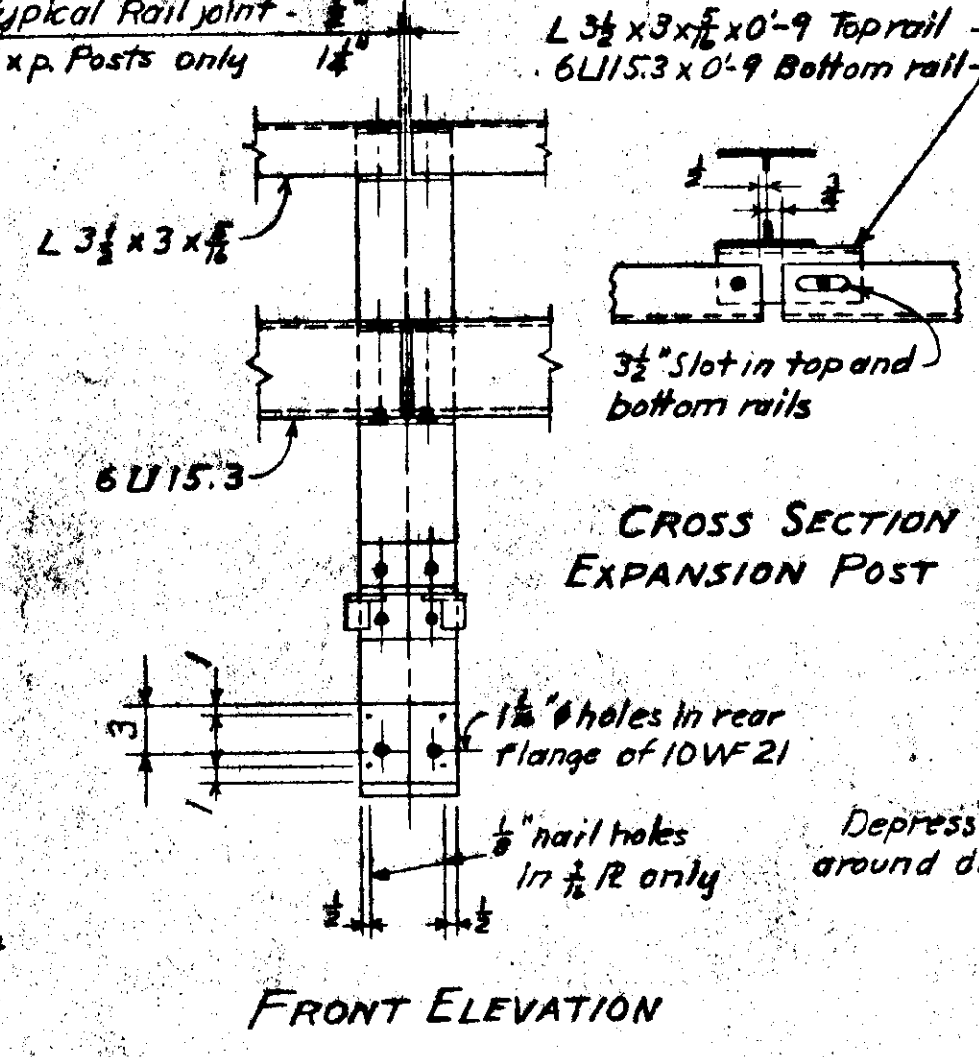
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP 95	5	1957	6	8

Note: 1/2" x 1/4" Slotted holes in clip at all rail splice points.

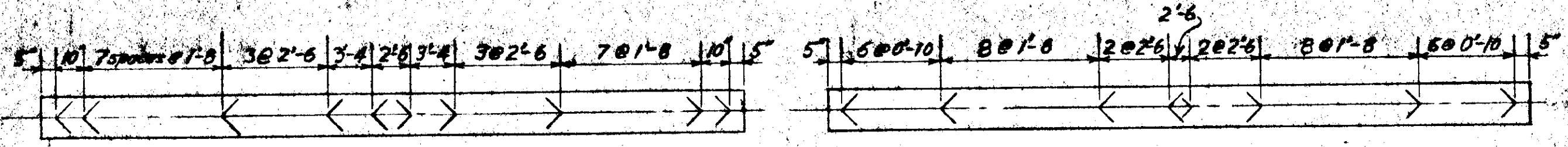


RAIL POST DETAILS
Scale: 1" = 1'-0 (Except as noted)

Note: See Steel Layout sheet 6 for location of expansion posts.



SHEAR LUG DETAIL
No Scale



(87% of total dead load deflection is due to weight of concrete and railing).

TOTAL ANTICIPATED DEAD LOAD DEFLECTION
No Scale

EXTERIOR STRINGER

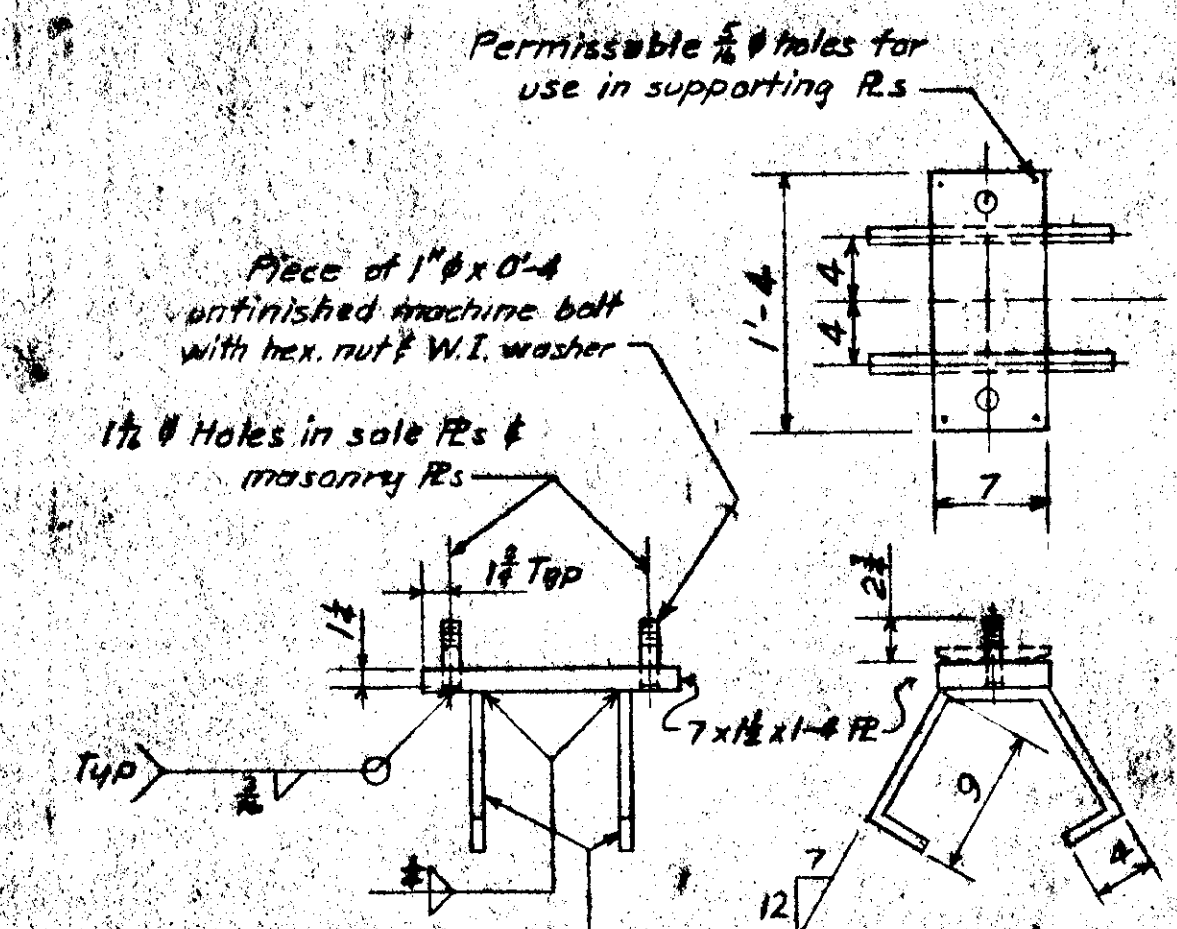
SHEAR LUG SPACING
No Scale

INTERIOR STRINGER

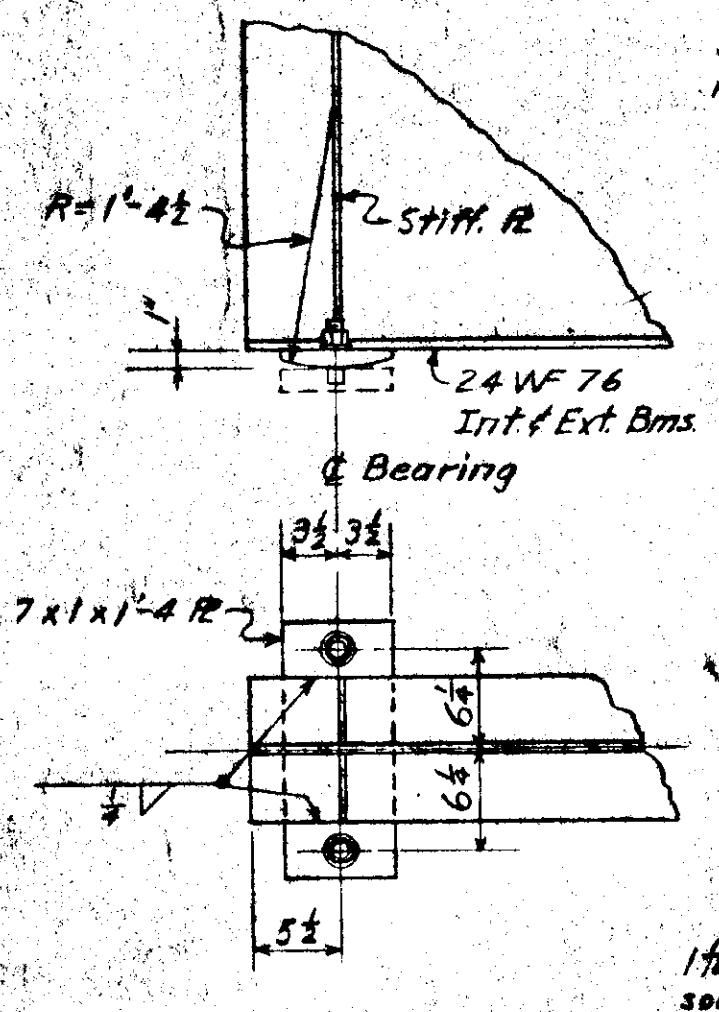
Note: Beams are to be cambered to compensate for dead load deflection. Acceptable camber shall be 1/8" to 1/4" at mid span. Camber must form a smooth curve throughout the entire length of the beam. All beams over cambered except one.

Note: Nuts on 1" bolts to be drawn up finger tight then backed off 1/4 turn. Ends of bolts shall then be burred to prevent removal of nuts.

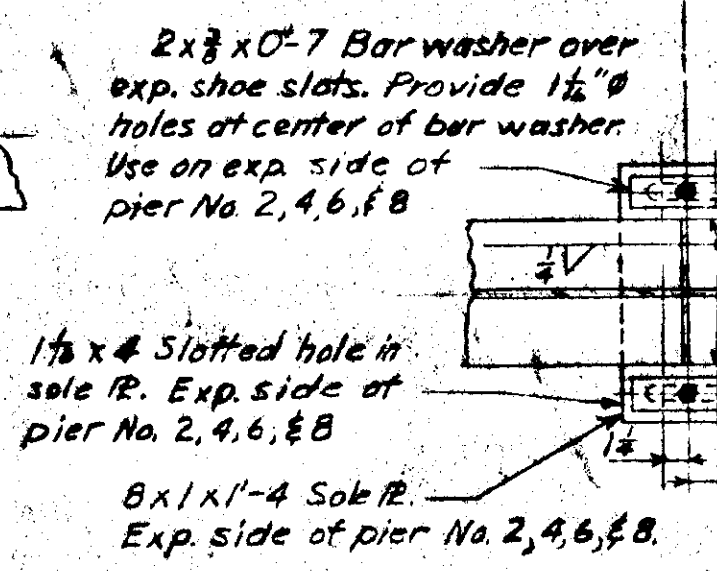
Note: Piers No. 2, 4, 6, 8 have one side fixed and one side expansion. Piers No. 1, 3, 5, 7, 9 are fixed both sides.



ABUTMENT BEARING DETAILS

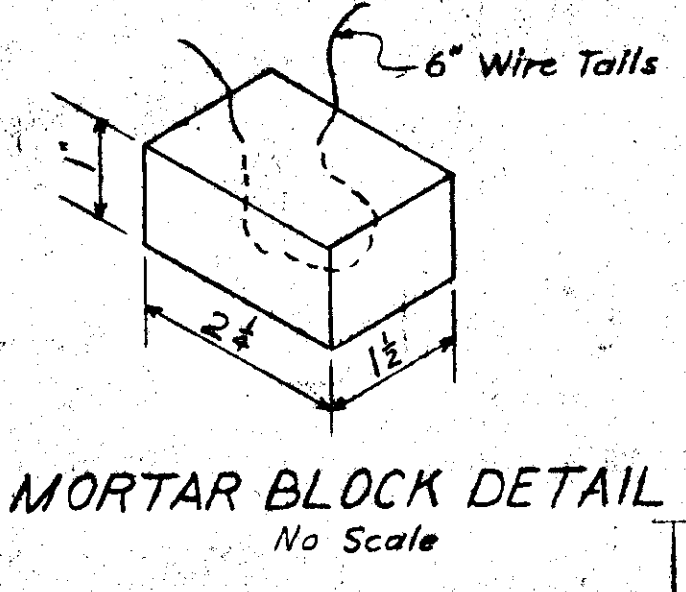


SOLE R DETAIL
Scale: 1" = 1'-0"

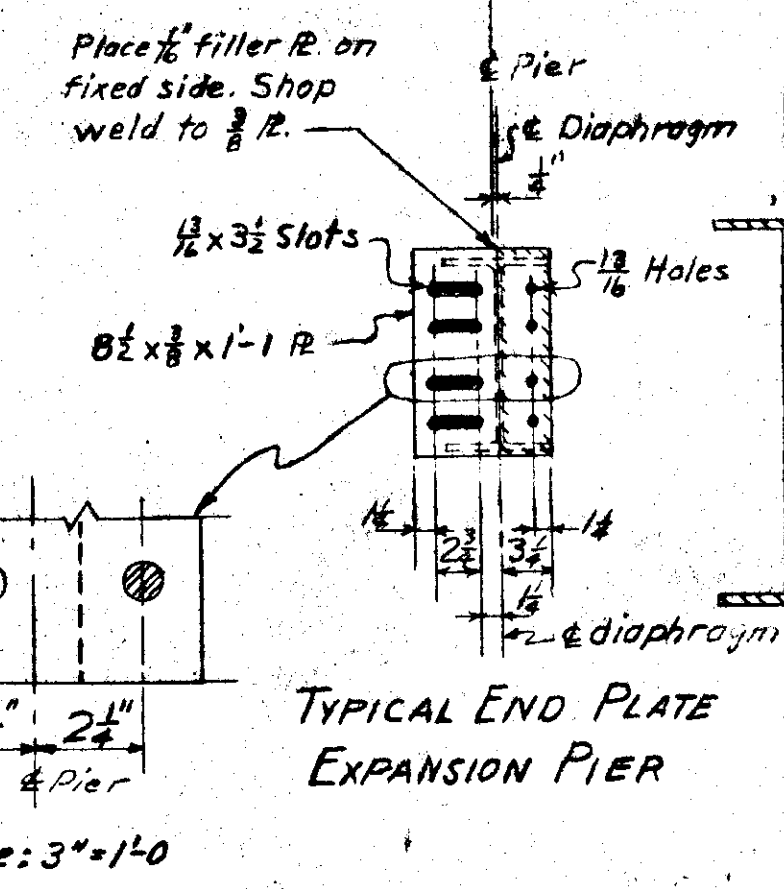
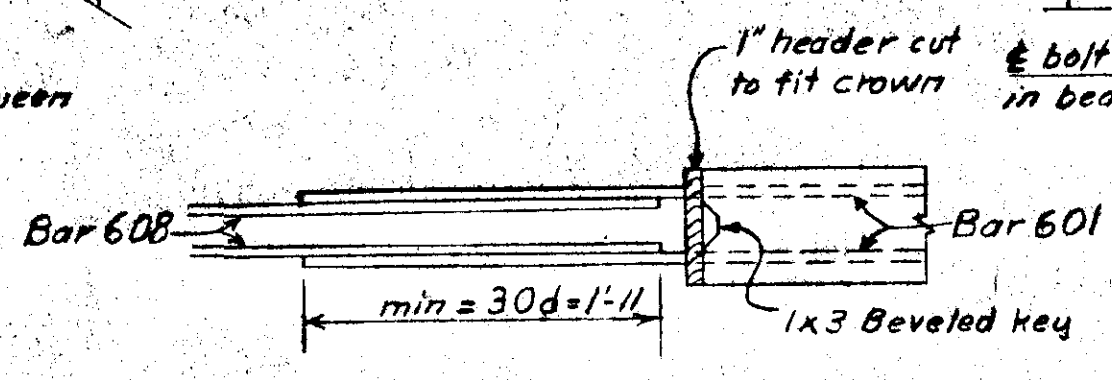


SOLE R DETAIL
Scale: 1" = 1'-0"

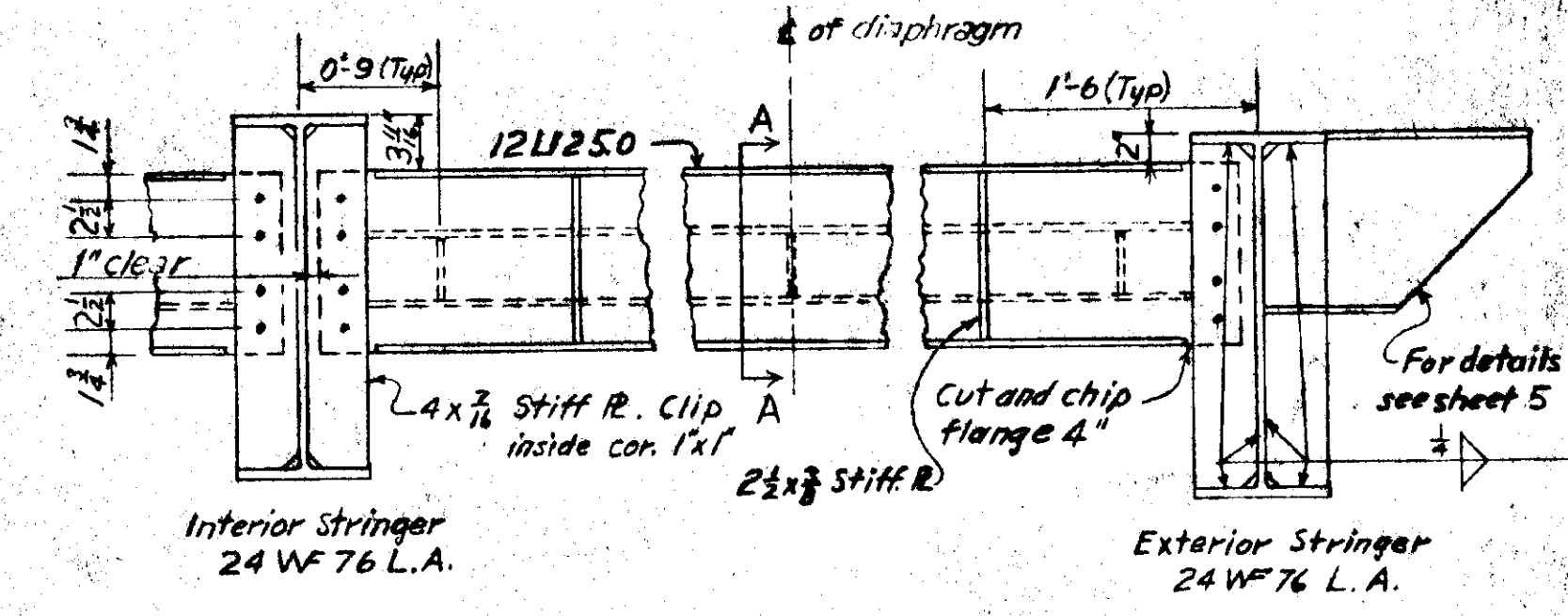
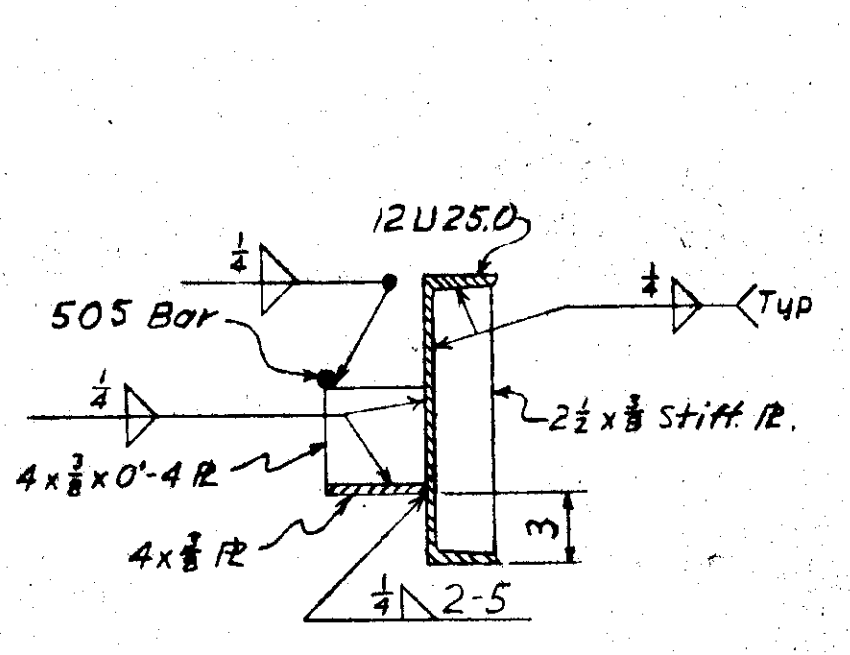
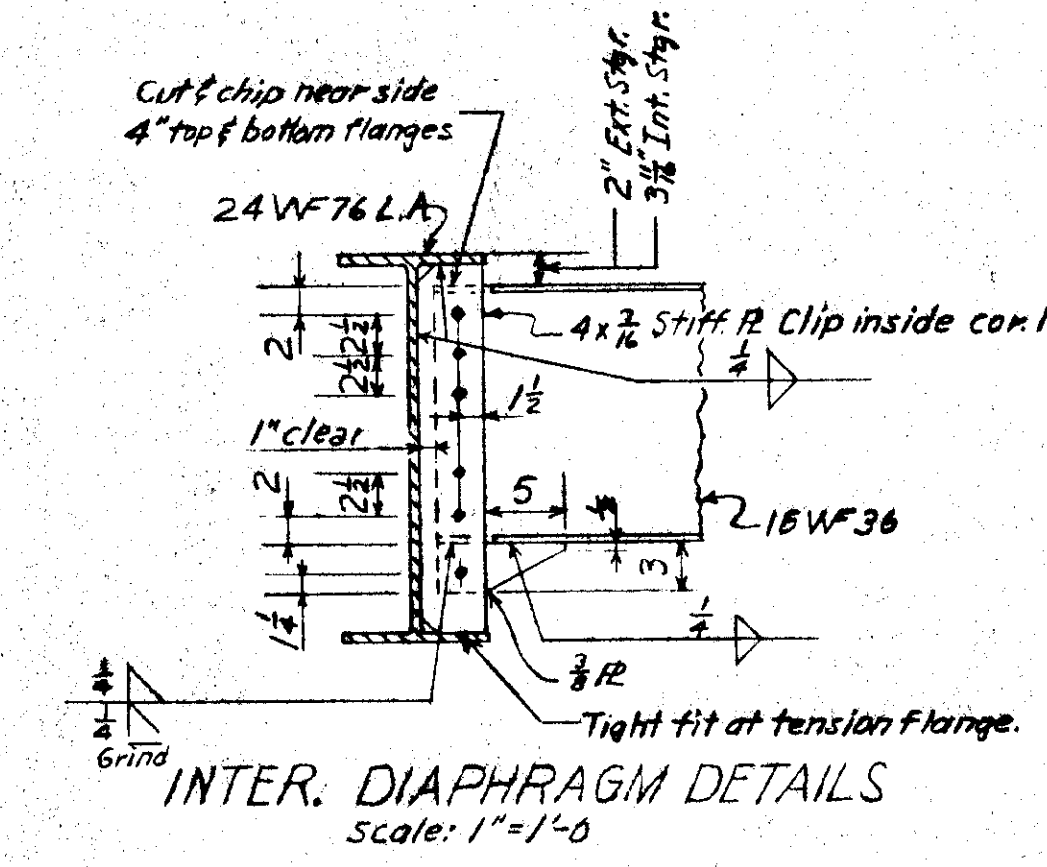
PIER BEARING DETAILS



DETAIL FOR LONGITUDINAL CONSTRUCTION JOINT OF SLAB
Scale: 1" = 1'-0"



PIER DIAPHRAGM DETAILS
Scale: 1" = 1'-0"



ABUTMENT DIAPHRAGM DETAILS
Scale: 1" = 1'-0"

AS BUILT PLANS

ORIGINAL SIGNED BY H. L. WALTON SEPT. 26-58

CORRECTIONS TRANSFERRED TRACING BY A.G.G. DATE 12-18-58 CHECKED BY DATE

UNITED STATES DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS, REGION 10 JUNEAU, ALASKA DESIGN FOR

500' X 24' I-BM BRIDGE
CONSISTING OF 10 SIMPLE 50' SPANS

SUPERSTRUCTURE DETAILS

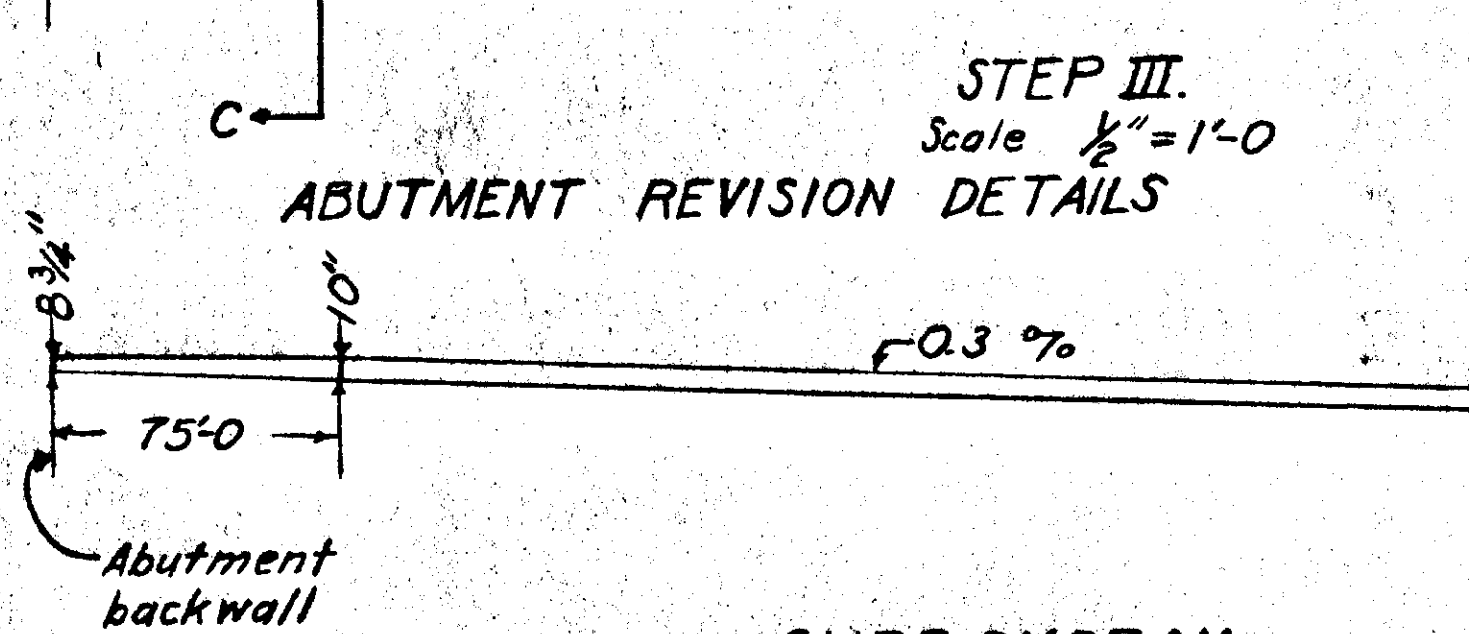
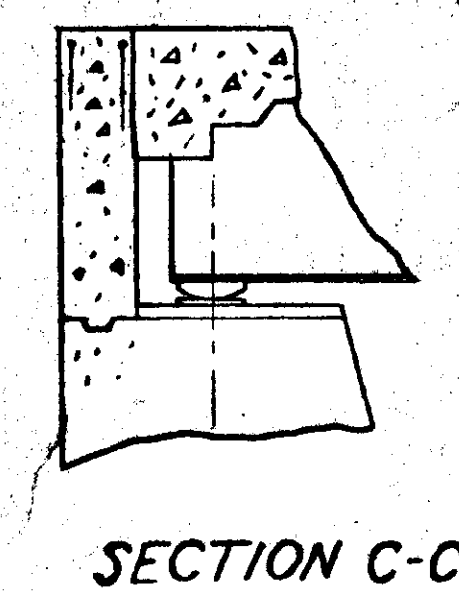
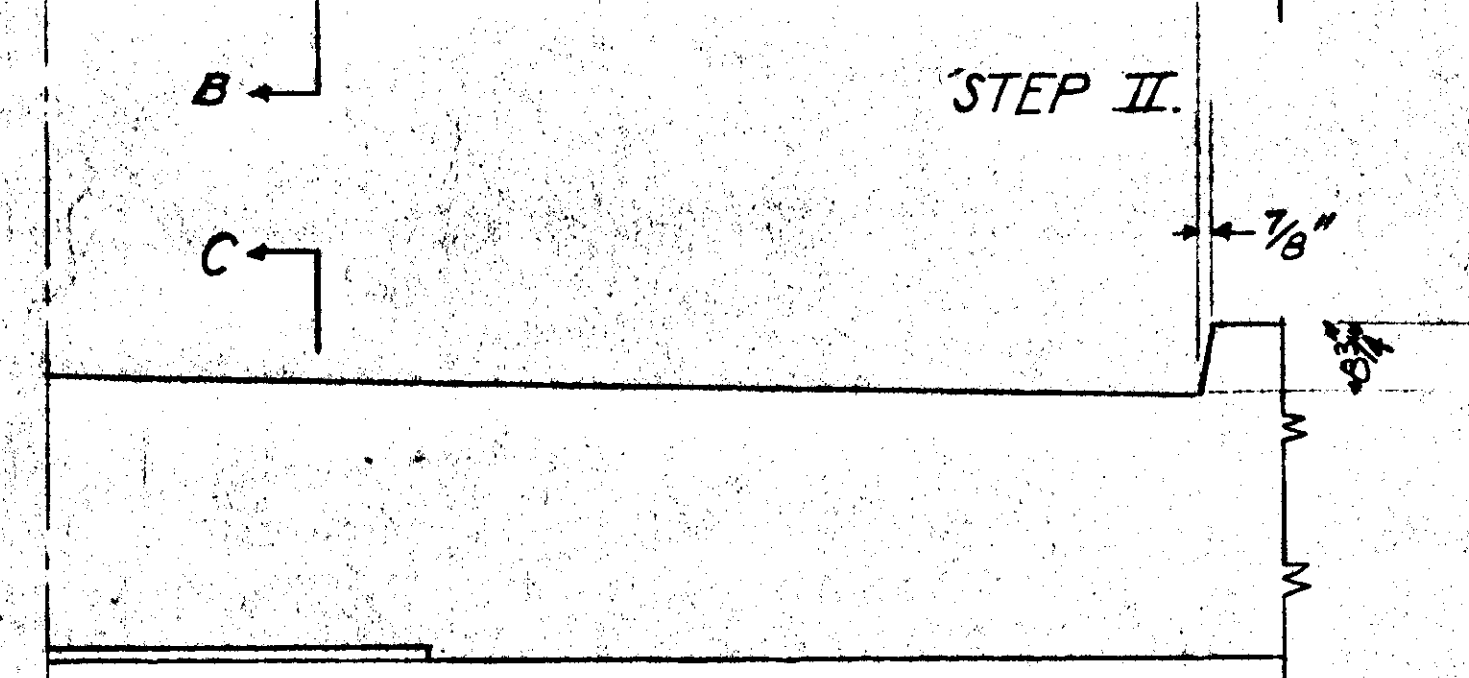
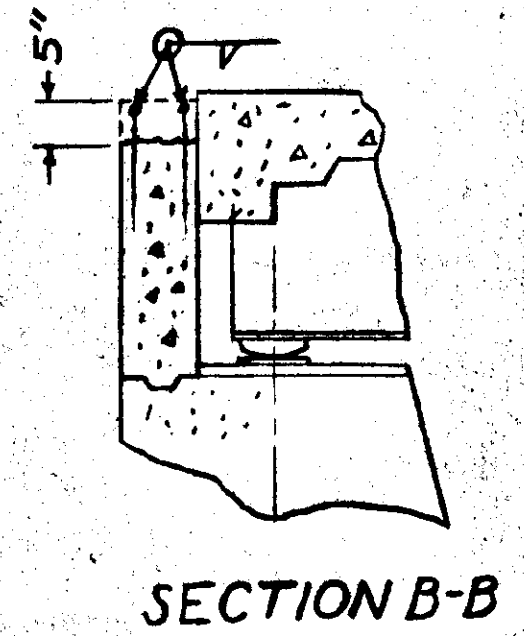
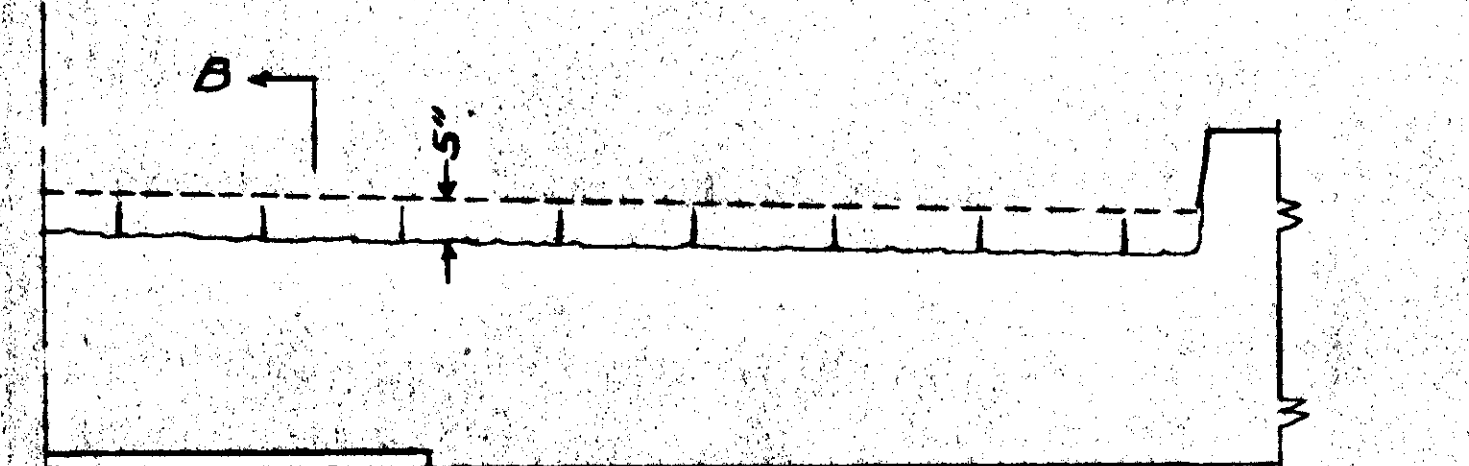
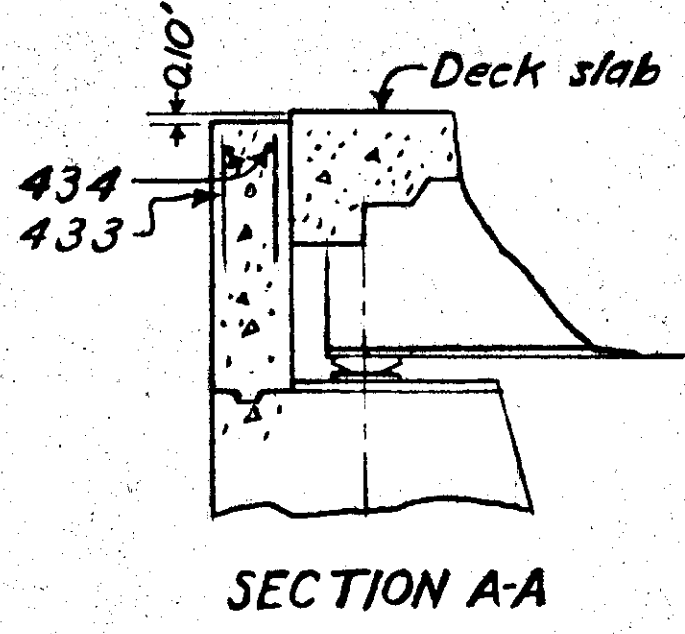
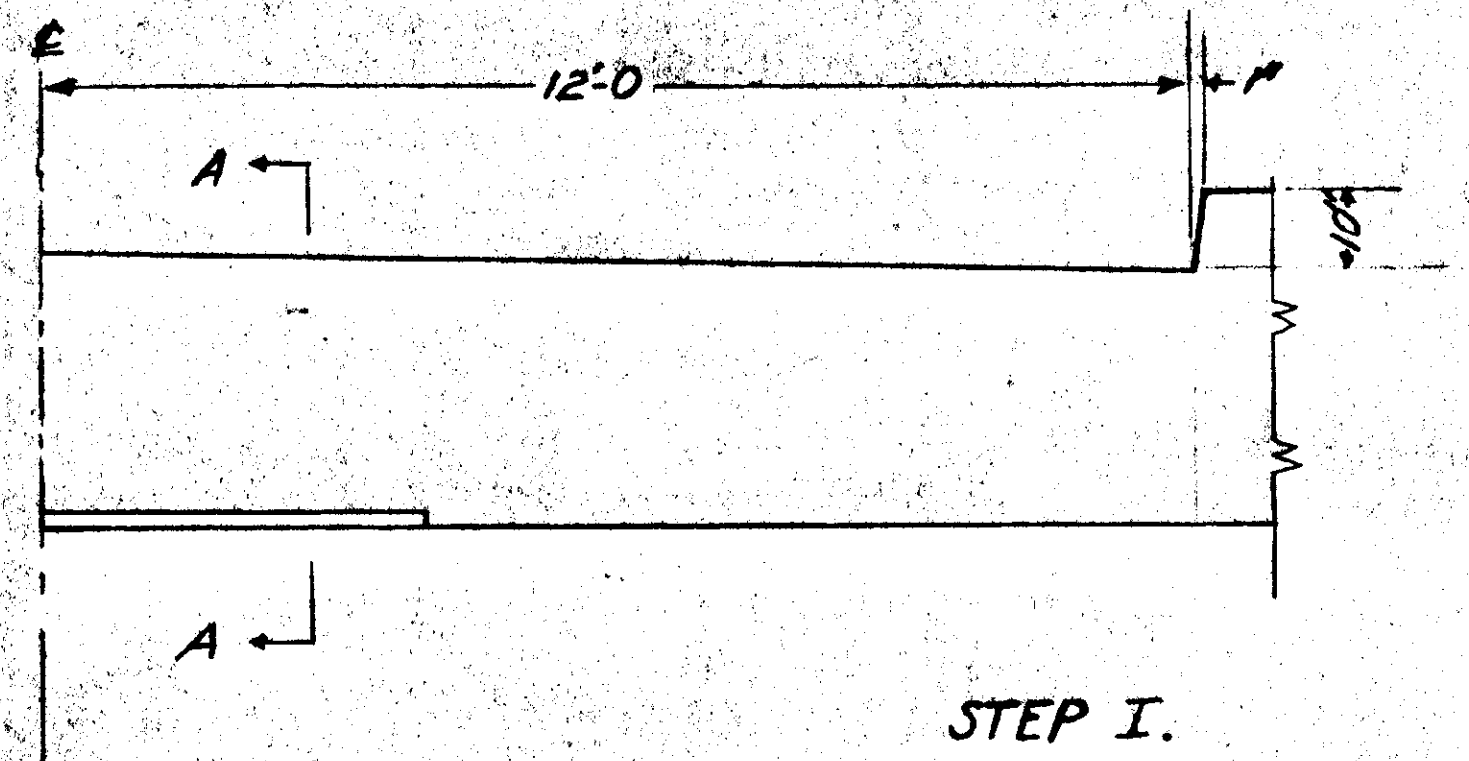
HIGHWAY HAINES CUT-OFF BRIDGE NO. 1195
DISTRICT: JUNEAU DIST. CHILKAT RIVER H-20-44 LOADING

DESIGNED L.D.B. APPROVED: 5.H. Smith REGIONAL ENGINEER
DETAILED L.D.B.
TRACED V.V.C.
CHECKED V.V.C.

PROJECT NO. F-095-5(1) DATE DECEMBER 1956 SHEET 5 OF 7 DESIGN NO. 1556

BP # 742

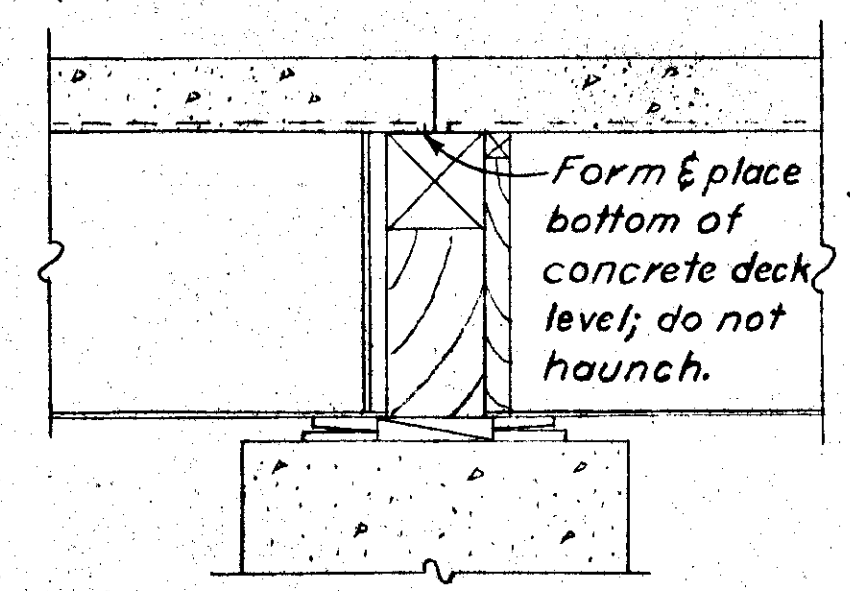
TERRITORY	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FAP 95	5	1958	7	8



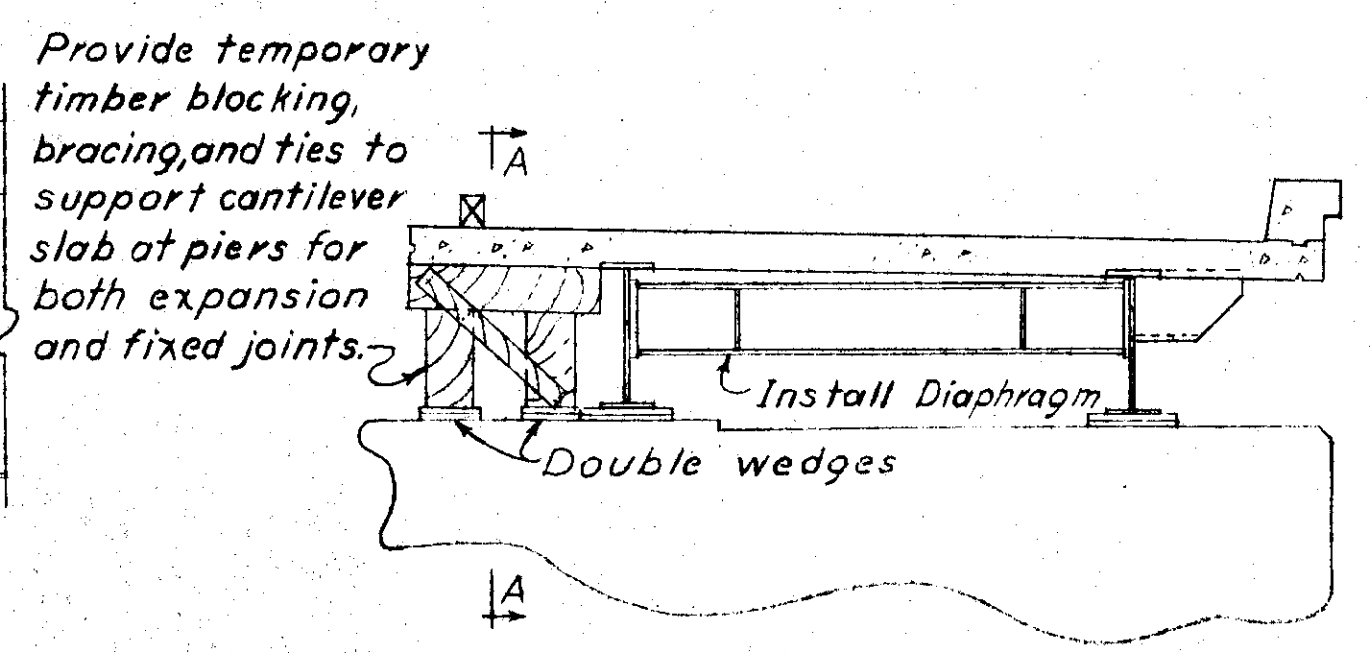
CURB DIAGRAM
Horizontal Scale 1"=100'-0"

Note: Top of curb will be straight on tangent grades. This detail will be used for the upstream curb only. Construct the downstream curb full design plan height of 10 inches. Both curbs constructed in similar manner as shown. This plan didn't reach Haines till downstream 1/2 abutments were built.

- SEQUENCE**
- 1 Remove concrete to a 5 inch depth on abutment backwall.
 - 2 Weld #4 bars on ends of vertical reinforcing bars.
 - 3 Place new concrete to deck level 0.10 ft. higher than Step I.



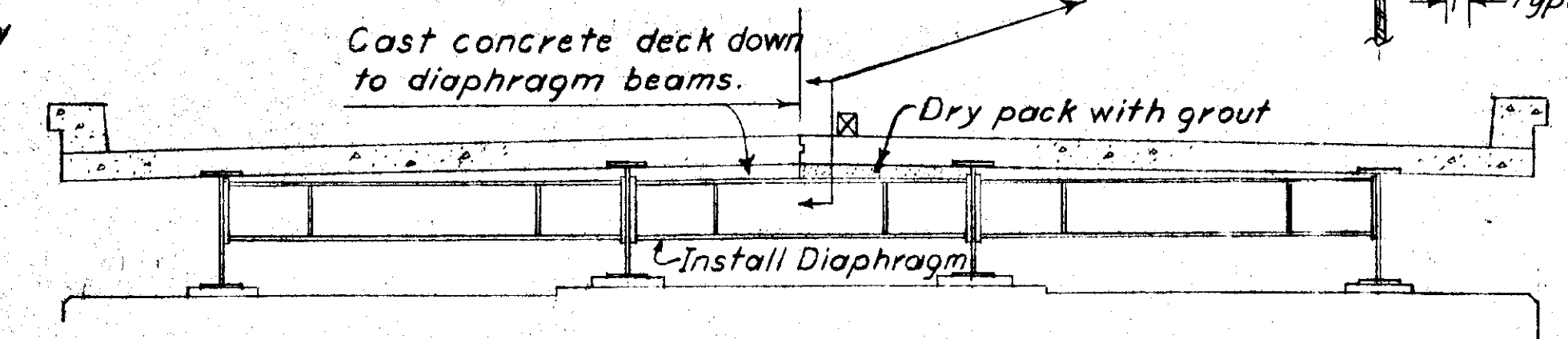
SECTION A-A
Scale 3/4"=1'-0"



STAGE II AT PIER
Scale 3/8"=1'-0"

CONSTRUCTION SEQUENCE

- 1 Stop traffic and remove temporary timber blocking.
- 2 Install permanent steel diaphragm.
- 3 Dry pack between top of diaphragm and bottom of deck.
- 4 Permit traffic upon structure.
- 5 Cast concrete deck on second half of bridge.



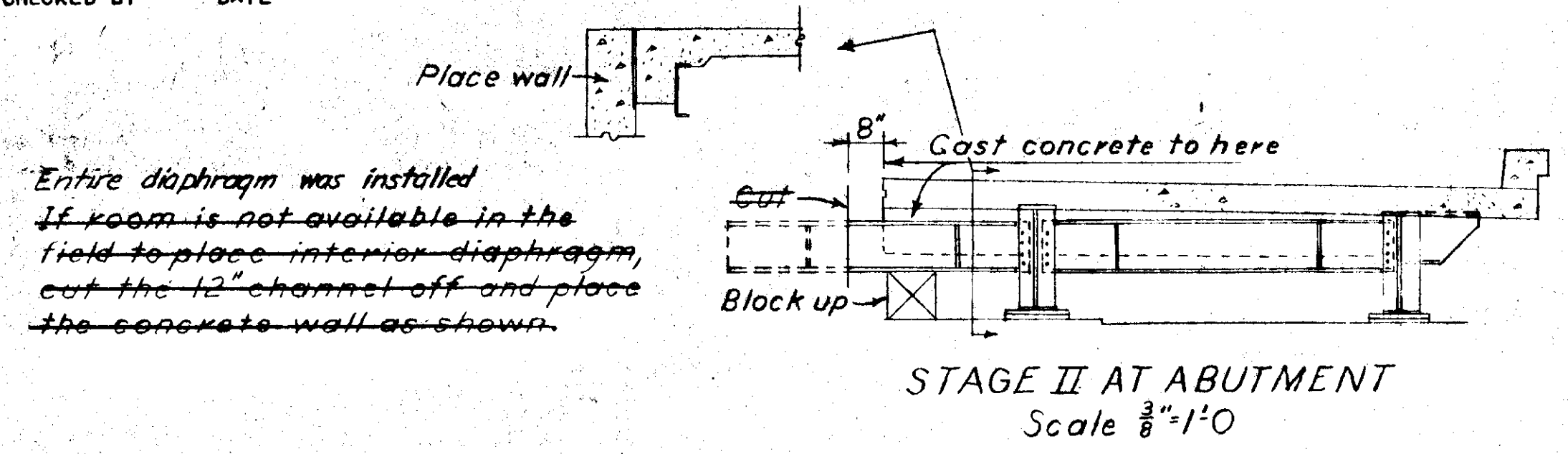
AS BUILT PLANS

ORIGINAL SIGNED BY H. L. WALTON
SIGNED AS ENGINEER Date SEPT. 26-58

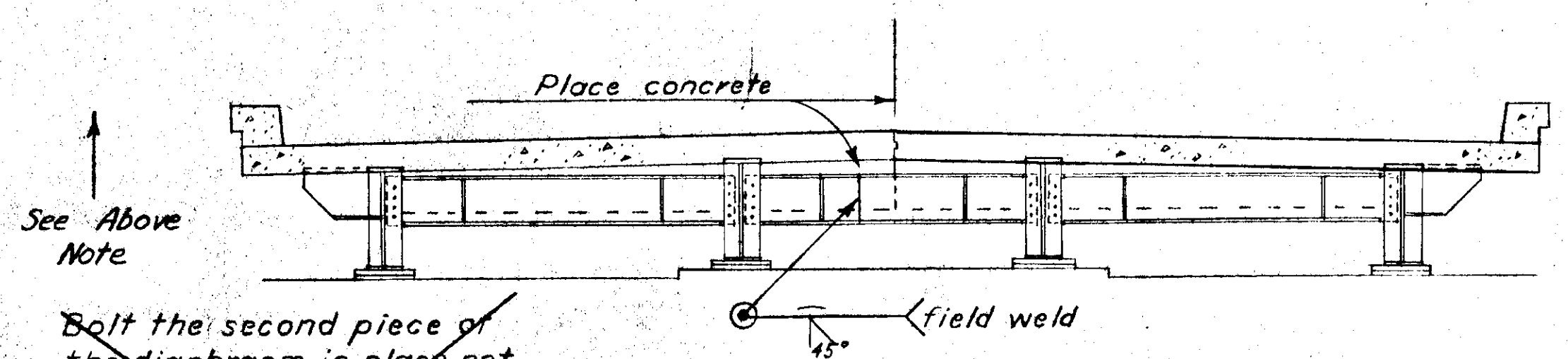
CORRECTIONS TRANSFERRED
TRACING BY A.G.G. DATE 12-18-58
CHECKED BY DATE

STAGE III AT PIER
Scale 3/8"=1'-0"

Note A Form key approx. 3/4 x 2 1/2 in deck pour. Through key form place 10 to 14 gauge wire about 6" long at 12" centers to bond the deck to the grout pad. A vertical cold joint need not be constructed in the grout pad at cold joints.



STAGE II AT ABUTMENT
Scale 3/8"=1'-0"



STAGE III AT ABUTMENT
Scale 3/8"=1'-0"

Bolt the second piece of the diaphragm in place, not tight, and weld, then loosen all the bolts to free the piece and then tighten. Place the concrete as shown. The temporary blocking shall remain in place until the welding and bolting has been completed.

Revised 6-17-58 AK J.M.C.

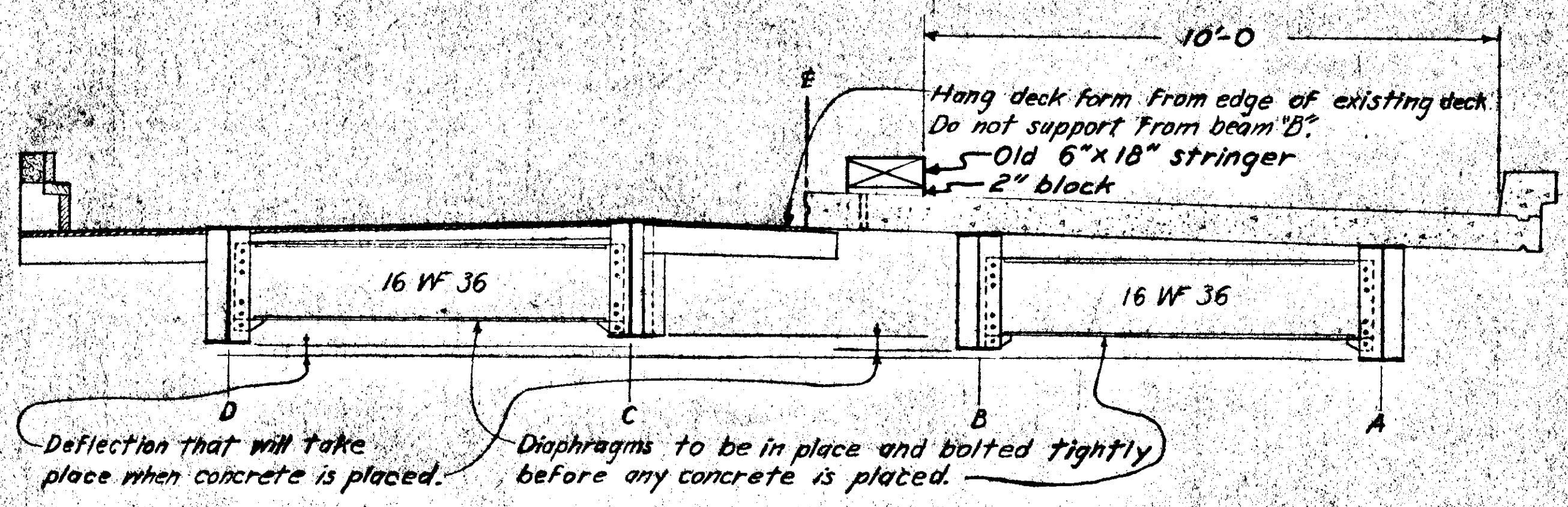
UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS, REGION 10, JUNEAU, ALASKA

CHILKAT RIVER
500' x 24' I-BM BRIDGE
CONSISTING OF 10 SIMPLE 50' SPANS

CONSTRUCTION DETAILS

JUNEAU H20-44 LOADING

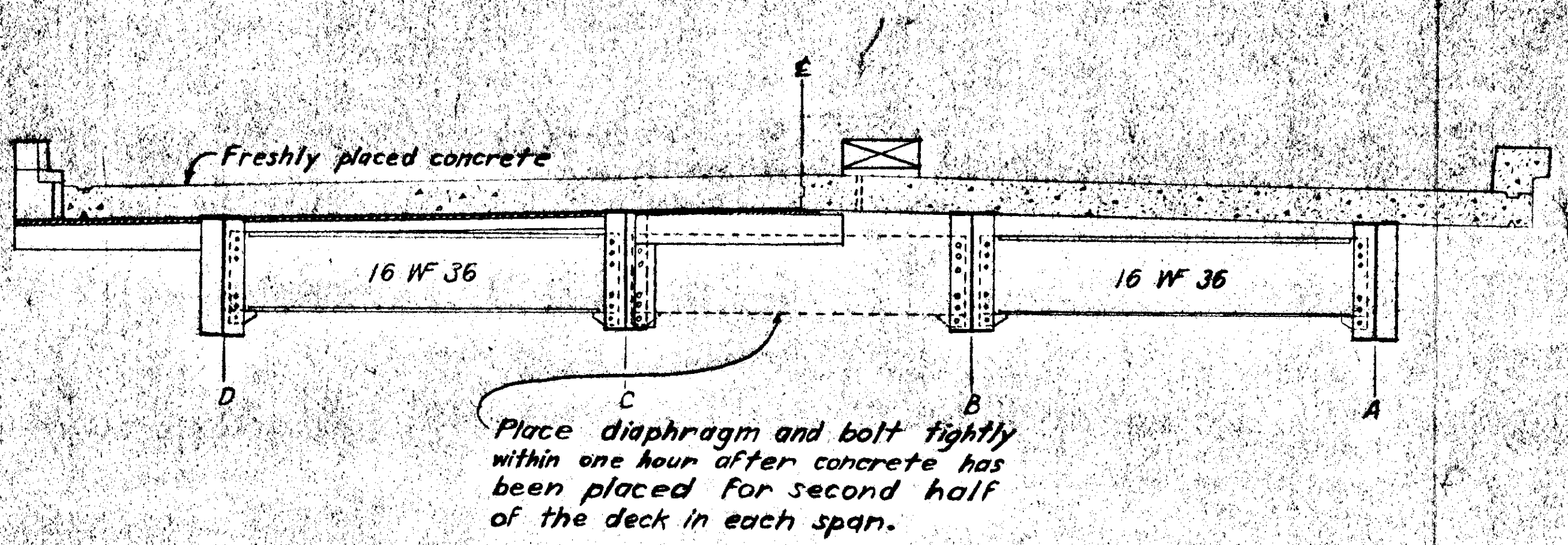
PROJECT NO. F-095-5 (I) SHEET 6 OF 7 DRAWING 1556



STAGE II AT MIDSPAN
Scale 1/2" = 1'-0"

- CONSTRUCTION SEQUENCE**
For second half of deck
- ① Build form and support to prevent freshly placed concrete from seeping under deck that is in place.
 - ② Pour concrete for second half of deck.
 - ③ Place center diaphragm and bolt tightly.

NOTE
All interior diaphragms were in place but not tightened before concrete was poured. Bolts were tightened within 30 minutes after pouring of concrete.



STAGE III AT MIDSPAN
Scale 1/2" = 1'-0"

This scheme or some similar one will be necessary to prevent the newly placed concrete from running between the present concrete and form when the weight is placed upon beams "C" and "D" which will cause them to go down.

AS BUILT PLANS

ORIGINAL SIGNED BY H. U. WALTON SEPT 26 58
Struct. Engr. & Archt. Engr.
 CORRECTIONS TRANSFERRED
 TRACING BY A.G.G. DATE 12-18-58
 CHECKED BY DATE

UNITED STATES DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS, REGION 10, JUNEAU, ALASKA

CHILKAT RIVER
 500' x 24' I BM BRIDGE
 CONSISTING OF 10 SIMPLE 50' SPANS

CONSTRUCTION DETAILS

DISTRICT JUNEAU H20-44 LOADING
 SHEET 7 OF 7 DRAWING 1556

BRIDGE BRANCH

CHECKED BY: [Signature]
 APPROVAL RECOMMENDED BY: [Signature]
 DATE: 6-1-58
 Chief Design Engr.