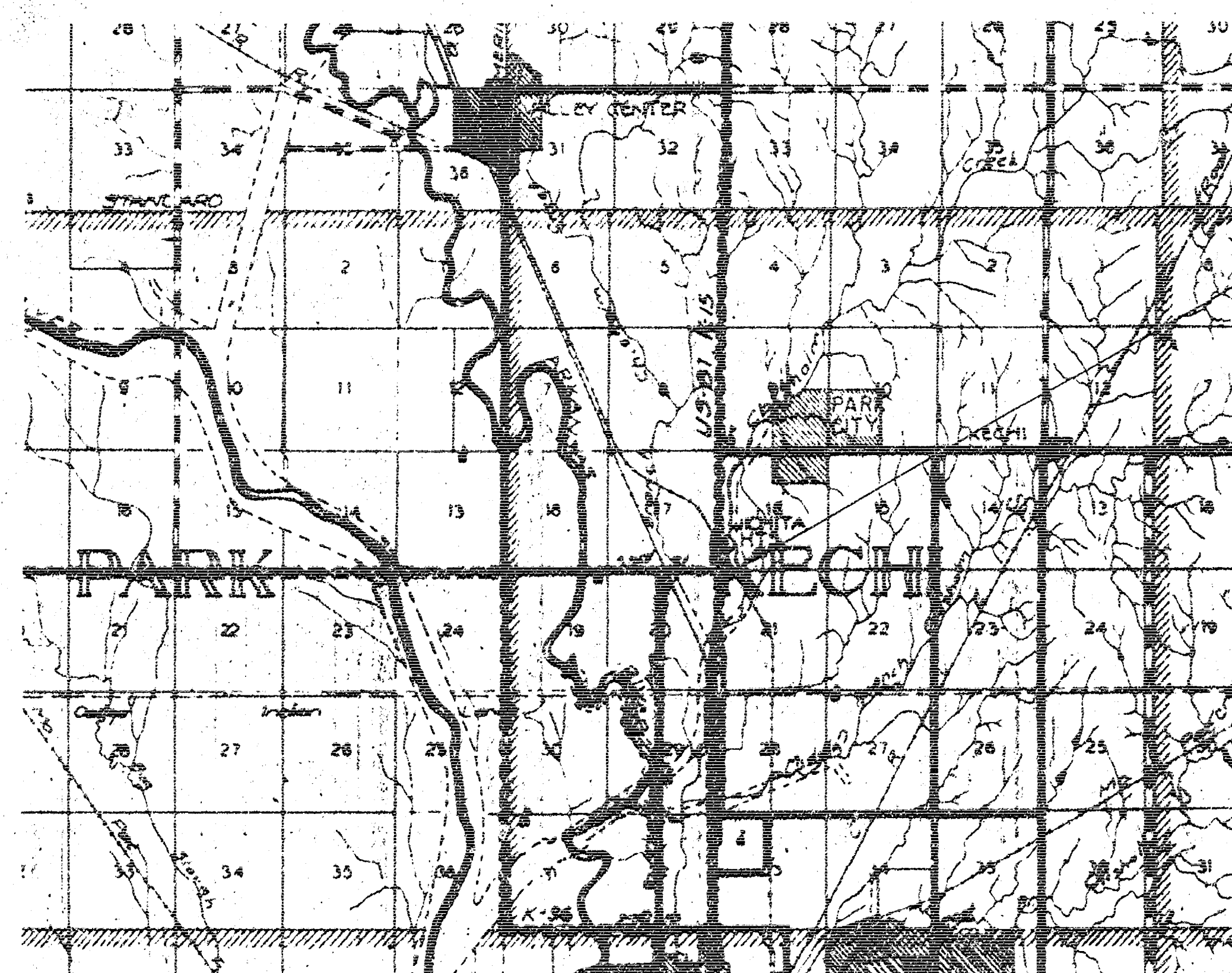


INDEX OF SHEETS	
SHEET NO. 1	TITLE SHEET
SHEET NO. 2	PLAN, PROFILE AND RIP-RAP PLAN
SHEET NO. 3	CONSTRUCTION LAYOUT
SHEET NO. 4	CONCRETE FLOOR DETAILS
SHEET NO. 5	STEEL LAYOUT & CONCRETE DETAILS
SHEET NO. 6	ABUTMENT, PIER, AND AUXILIARY DETAILS
SHEET NO. 7	BAR DIAGRAMS & REINFORCING STEEL QUANTITIES
SHEET NO. 8	STANDARD FILE DETAILS
SHEET NO. 9	CROSS SECTIONS



BRIDGE-GRADING & RIP-RAP

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



CONSTRUCT BRIDGE NO. 606-27-983 (2°12'-20" LT. SKEW)
CONTINUOUS STEEL-BEAM, WITH
CONCRETE DECK - 48'-0" RDWY.
WITH ALUMINUM HANDRAIL.
SPANS: 30'-4 @ 42'-6" - 30'

TRAFFIC COUNT - 600 CARS PER DAY

INCLOSURE WITH LETTER DATED 19 Dec 1957
FROM 120 Park Hill

REC'D DEC 19 1957

CONVENTIONAL SIGNS

COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RAILROADS	-----
SURVEY LINE	-----
RIGHT OF WAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

NET LENGTH OF PROJECT	750	FT.	.142	MILES
NET LENGTH OF BRIDGES	232'-8"	FT.	.044	MILES
NET LENGTH OF ROAD	517.33	FT.	.098	MILES
EXCEPTIONS	NONE	FT.	---	MILES
ADDITIONS	NONE	FT.	---	MILES
GROSS LENGTH OF PROJECT	750	FT.	.142	MILES

PLANS PREPARED BY

SEDGWICK CO. ENGR. DEPT.

DATE NOVEMBER 1957

APPROVED

DATE

CHAIRMAN
BOARD OF COUNTY COMMISSIONERS

APPROVED

COUNTY ENGINEER

DATE NOVEMBER 1957

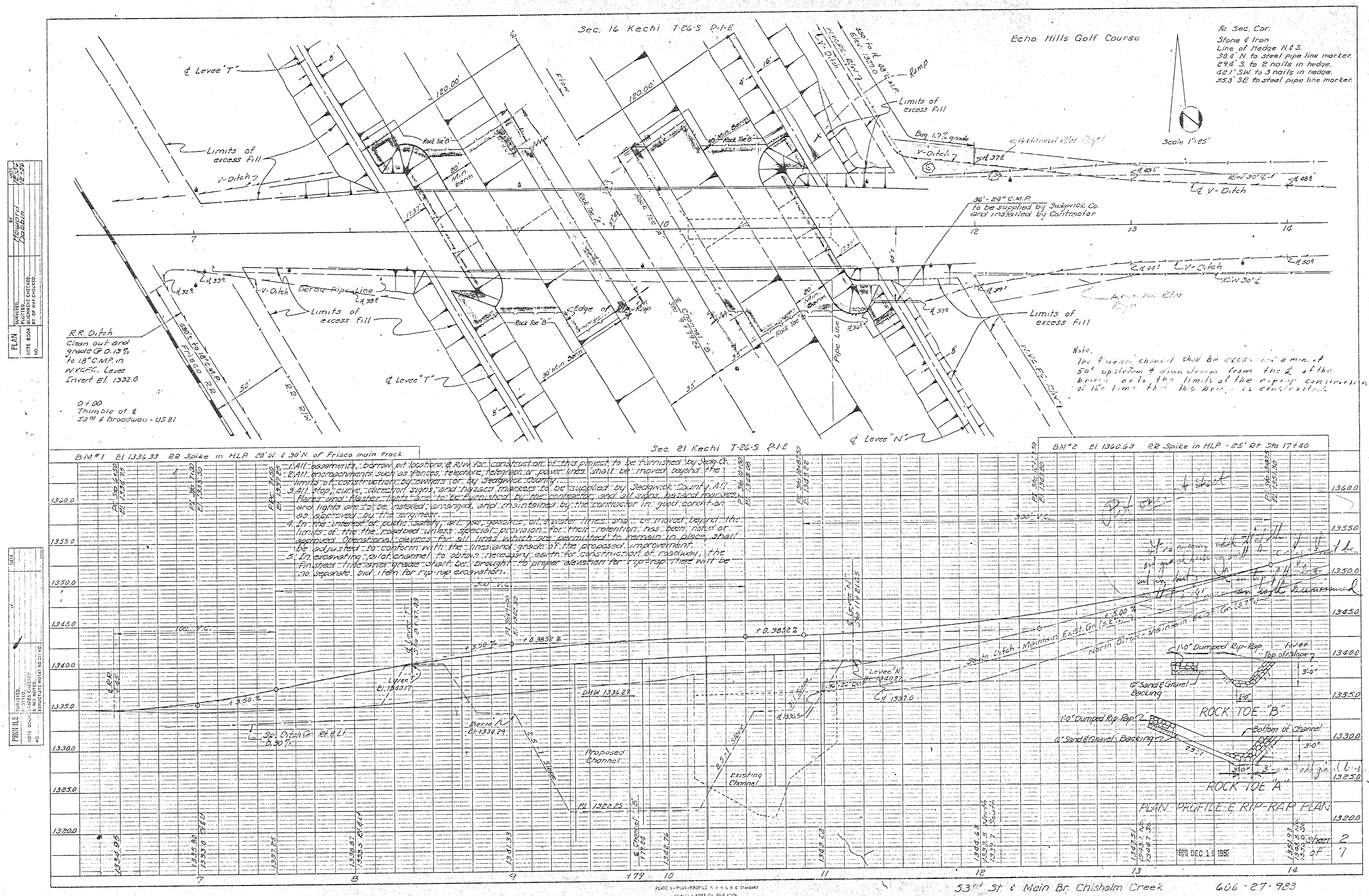
APPROVED

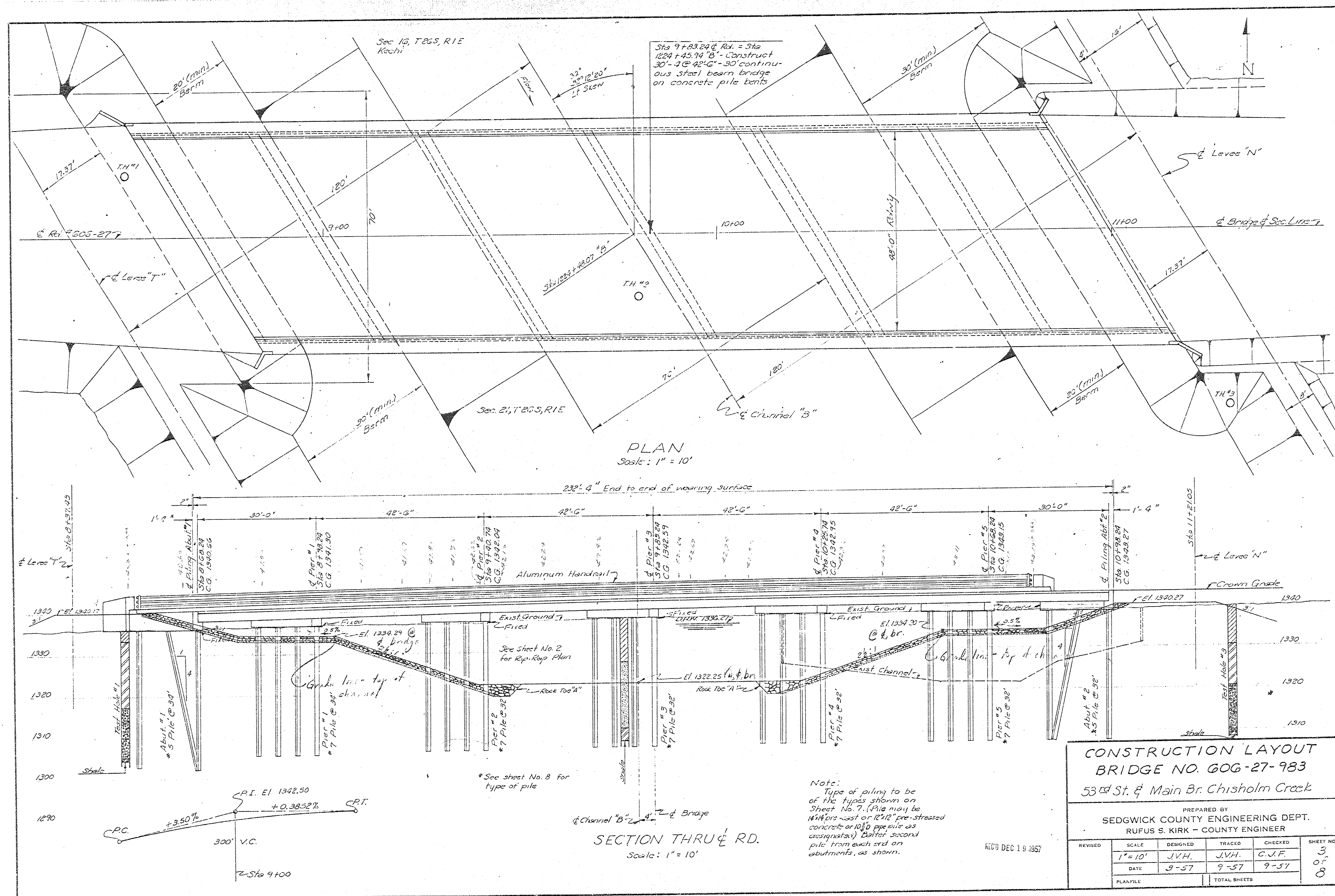
DATE

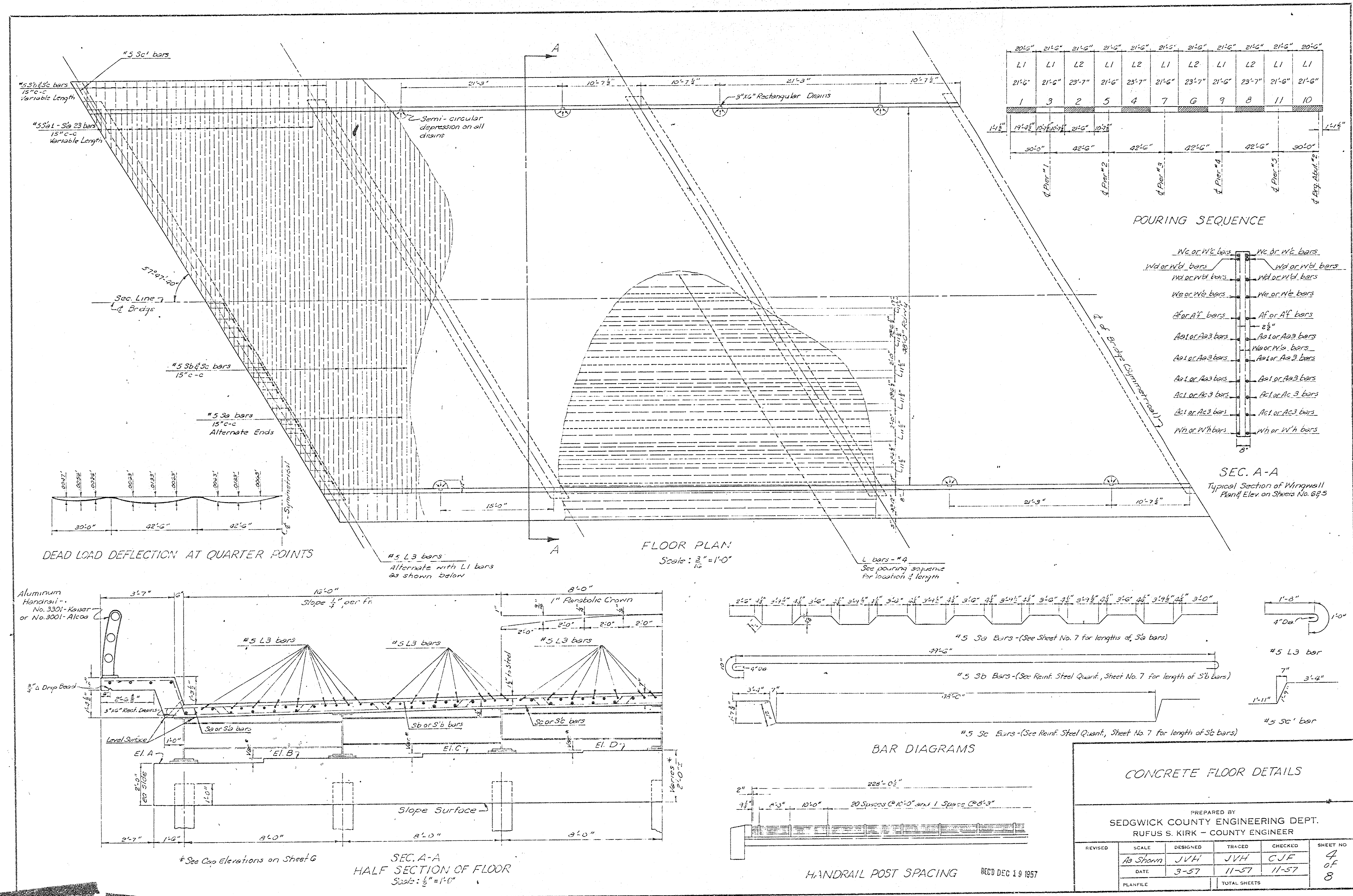
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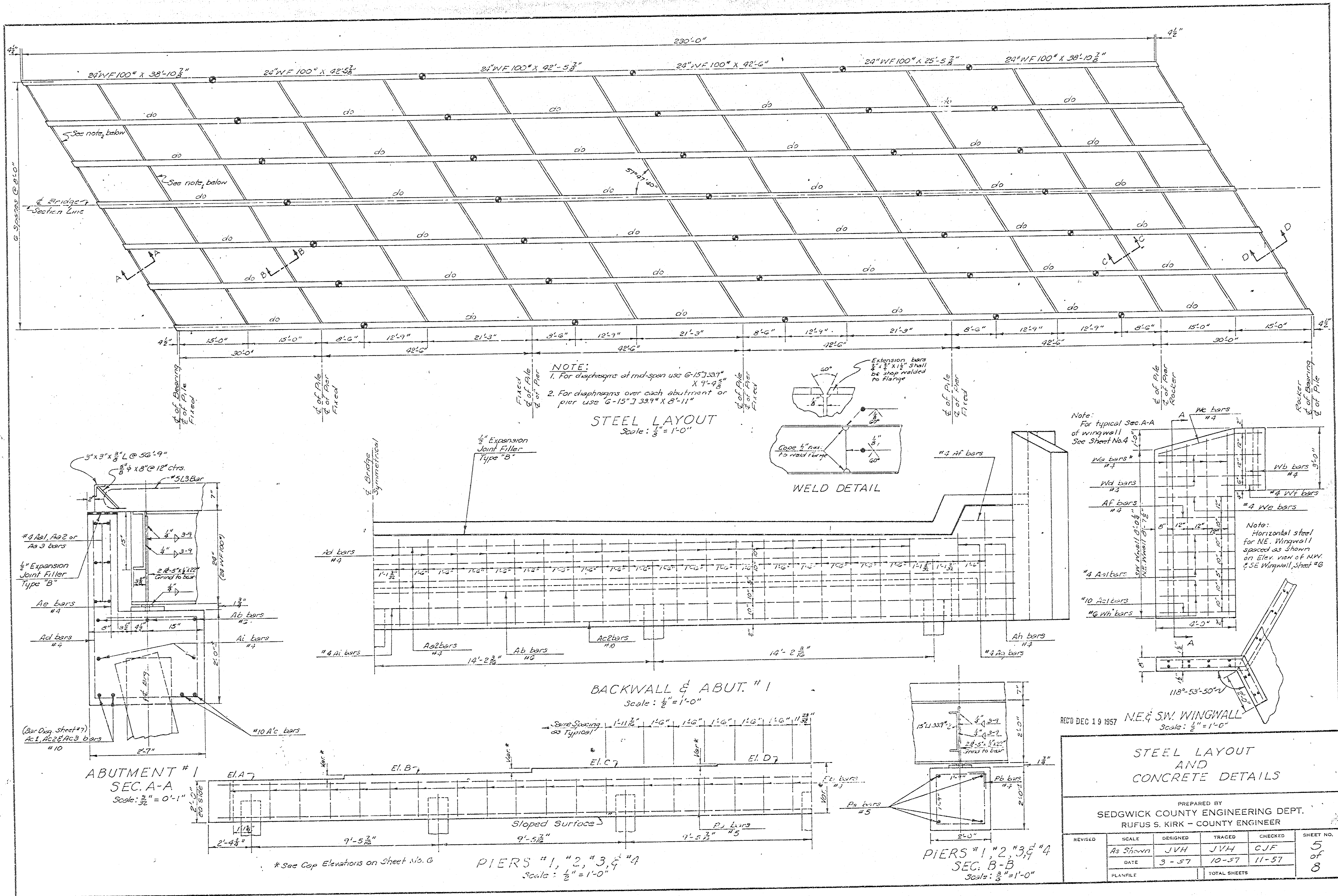
Per John A. Officer

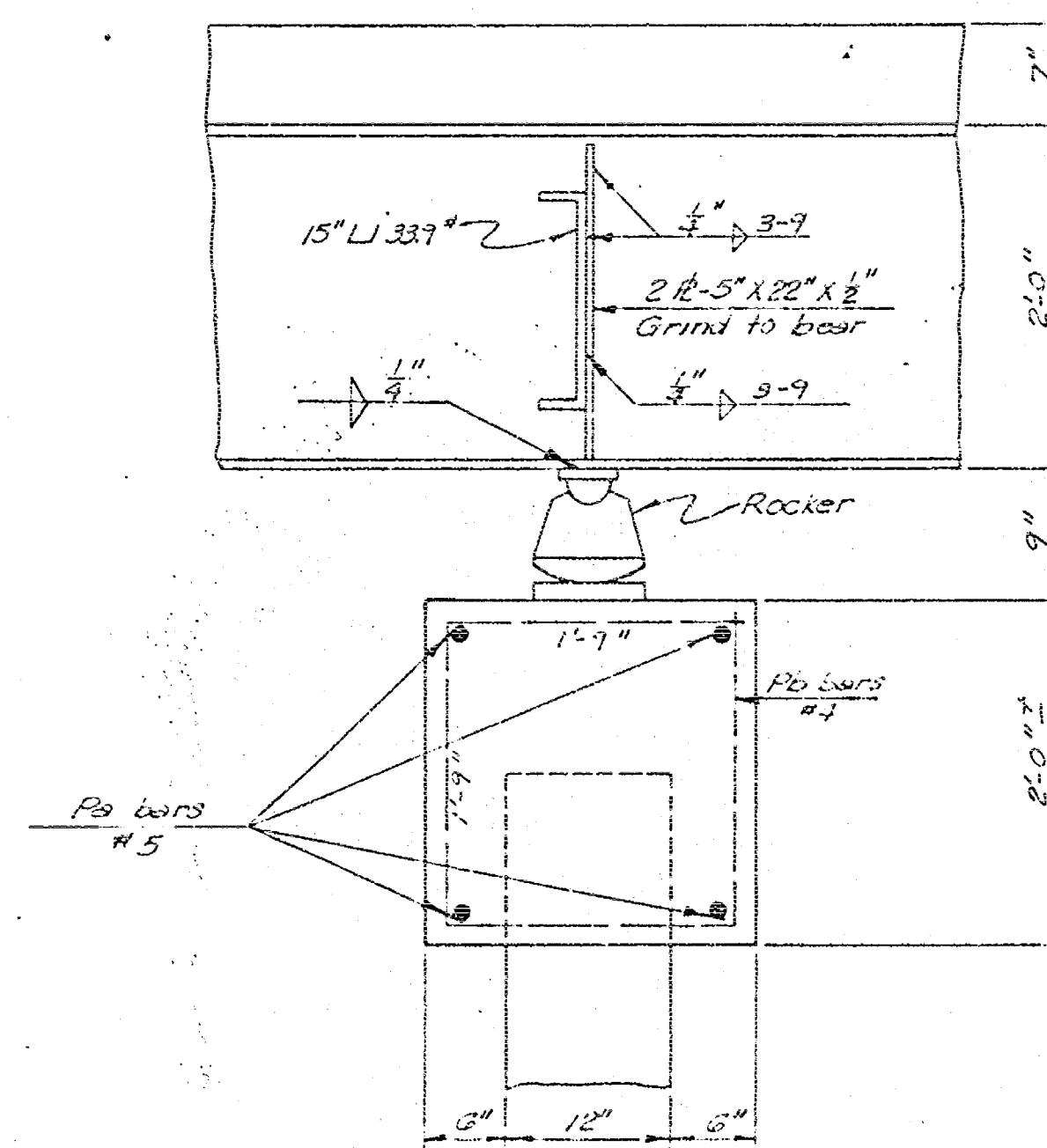
COUNTY CROSSINGS
53 RD. MAIN BRANCH



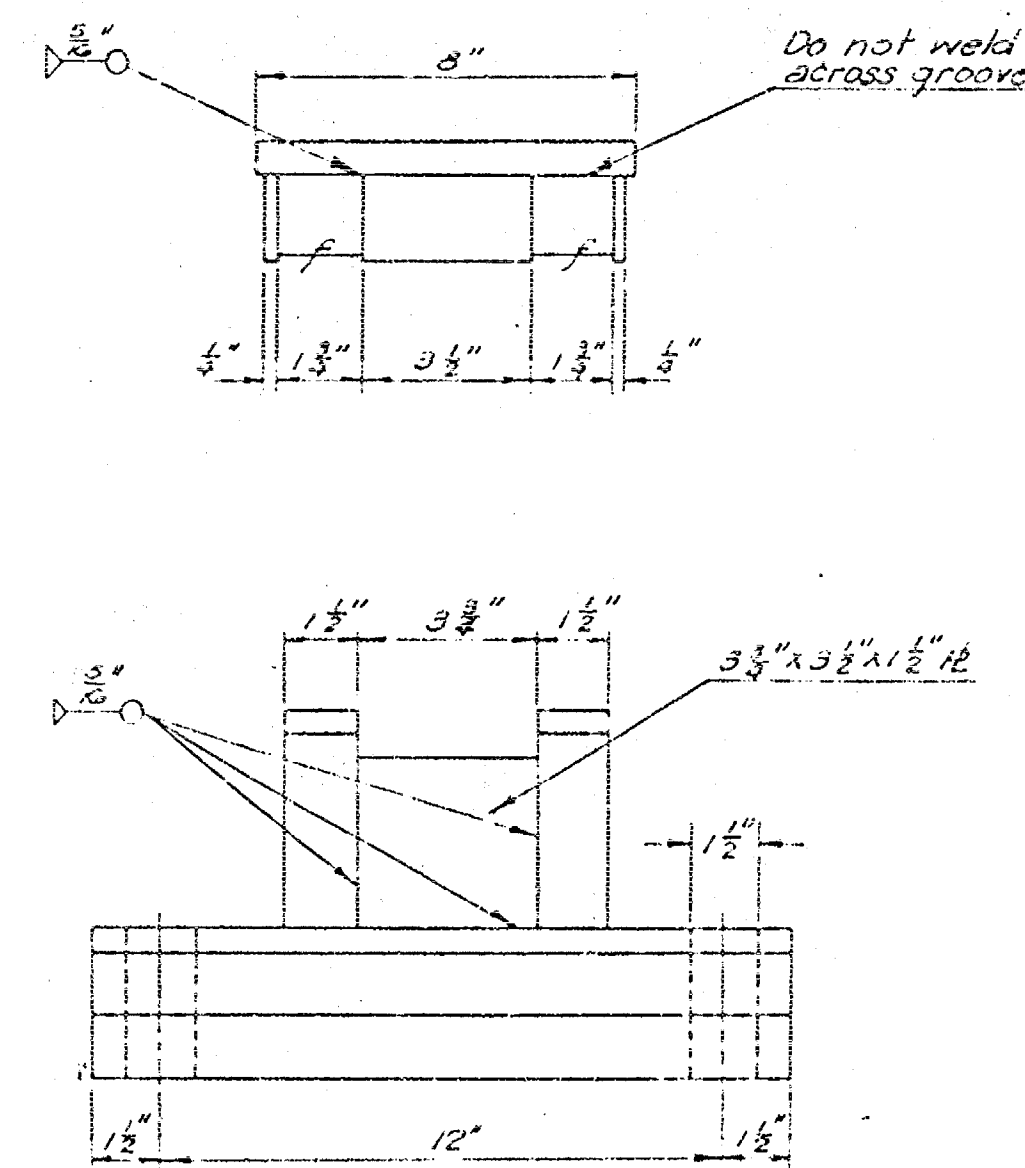




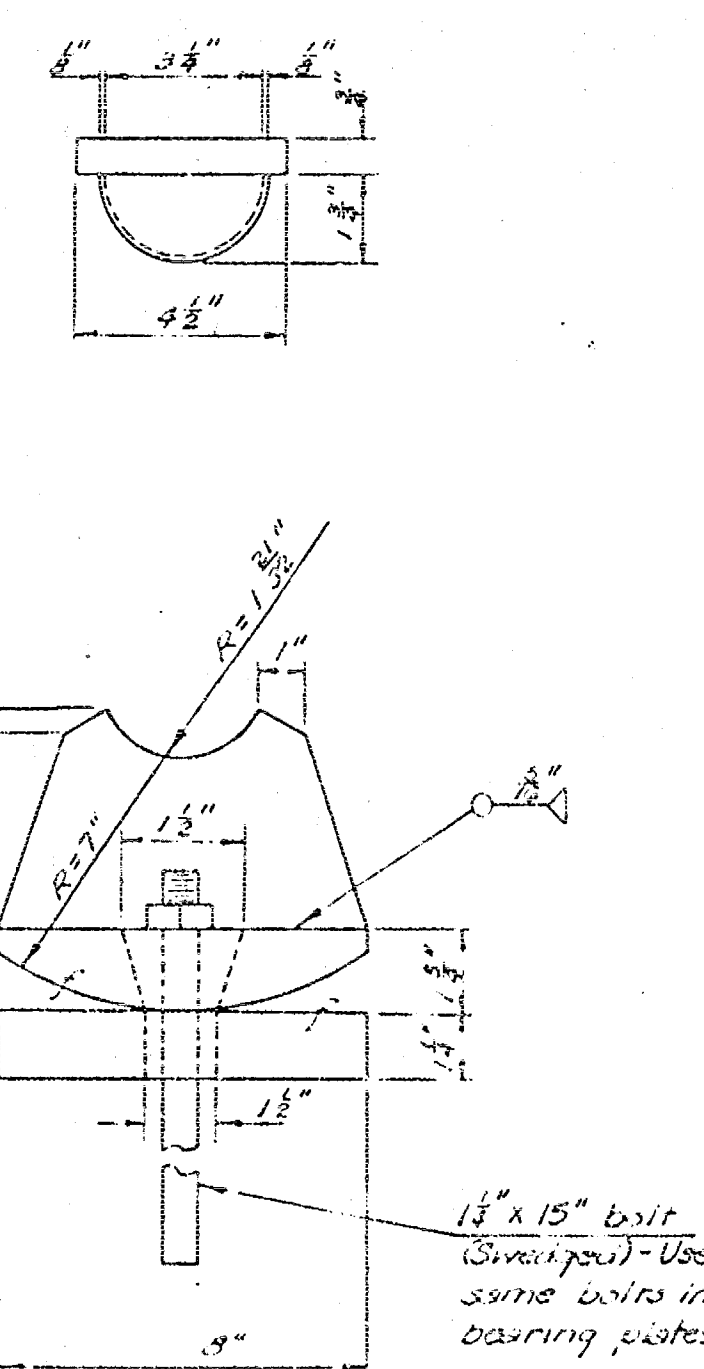




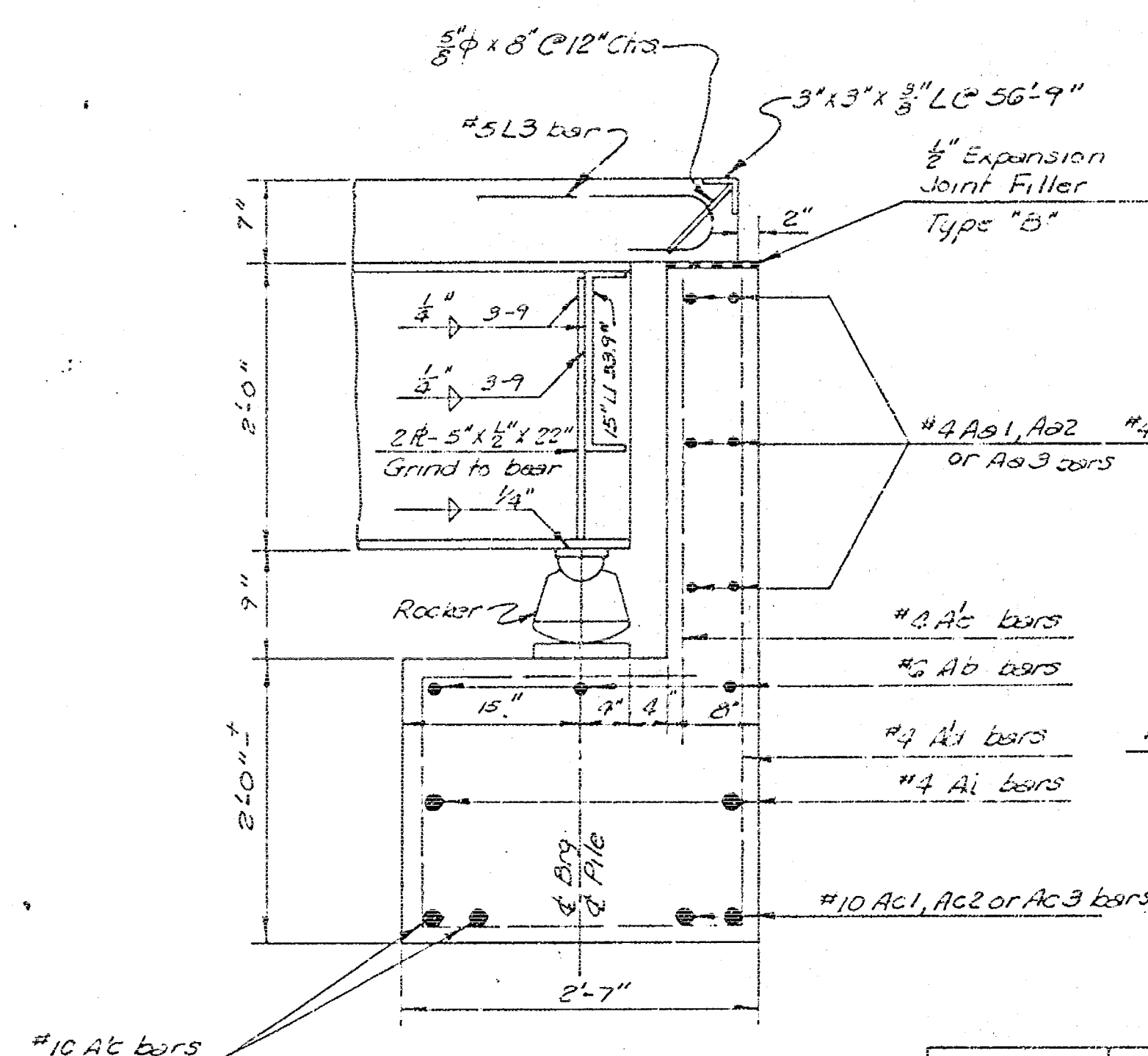
PIER #5
SEC. C-C (Sheet No. 5)
Scale: 1"=1'-0"



ROCKER DETAIL
(To be used at Pier #5 & Abut. #2)
Scale: 1/2"=1'-0"

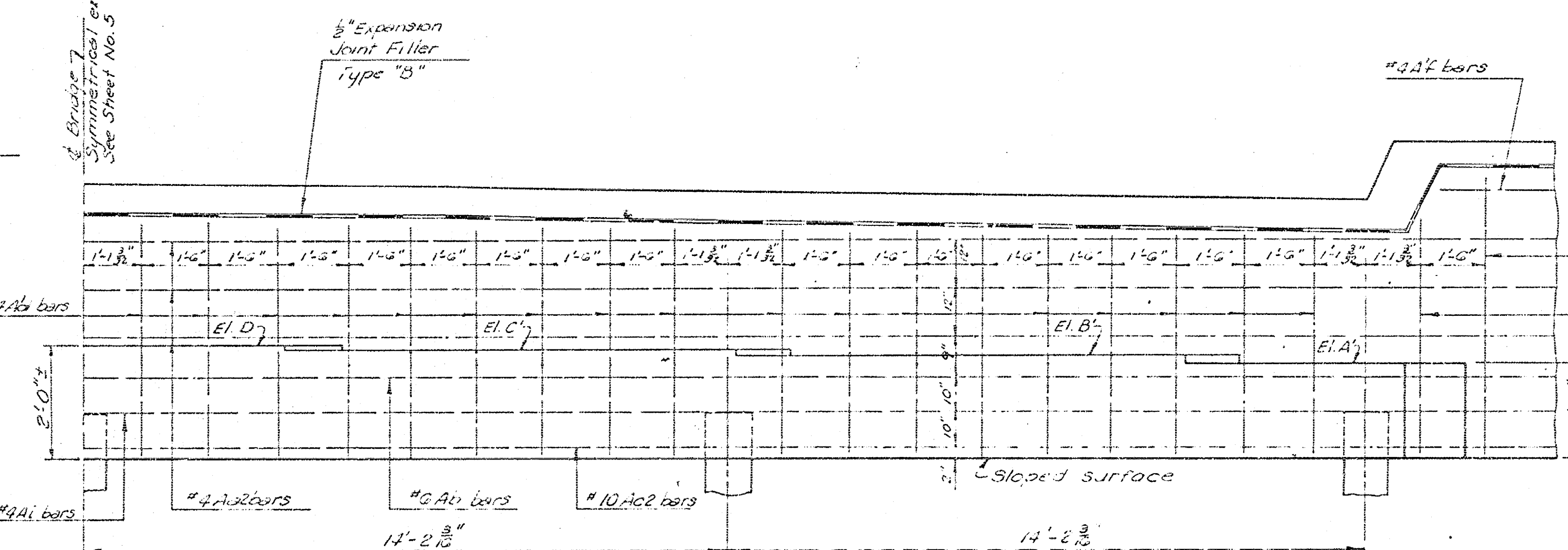


BEARING PLATES
(To be used at Piers #1, 2, 3, 4 & Abut. #1)
Scale: 1/2"=1'-0"



ABUT. #2
SEC. D-D (Sheet No. 5)
Scale: 1"=1'-0"

See Sheet No. 5
Symmetrical except for Wingwall



ABUTMENT NO. 2
Scale: 1/2"=1'-0"

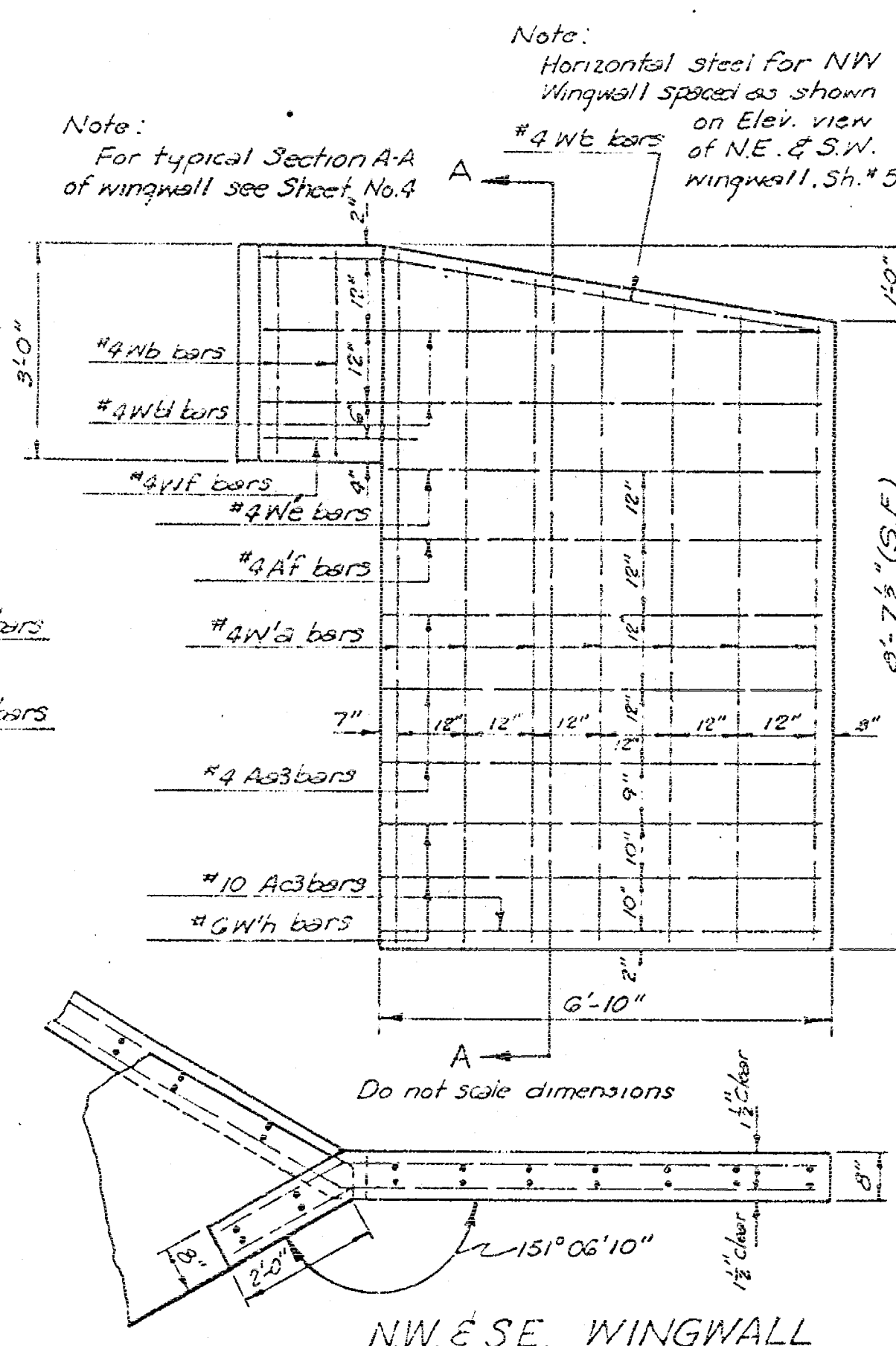
CAP ELEVATIONS

NO.	EL. A (North)	EL. B	EL. C	EL. D (R)	EL. C'	EL. B'	EL. A' (S)
Abut. #1	1337.16	1337.45	1337.74	1337.13	1337.96	1337.71	1337.85
Pier #1	1337.34	1338.12	1338.39	1338.57	1339.58	1338.51	1338.47
Pier #2	1338.65	1338.90	1339.15	1339.31	1339.30	1339.20	1339.11
Pier #3	1339.27	1339.50	1339.72	1339.86	1339.83	1339.71	1339.59
Pier #4	1339.70	1339.90	1340.11	1340.22	1340.17	1340.03	1339.89
Pier #5	1339.34	1339.53	1339.71	1339.82	1339.75	1339.60	1339.46
Abut. #2	1339.46	1339.64	1339.83	1339.93	1339.87	1339.72	1339.57

SUMMARY OF QUANTITIES

ITEM	QUANTITY	UNIT
Test Piling	72	Lin. Ft.
Concrete, Class A (AE)	3897	Cu. Yd.
Piling	1,398	Lin. Ft.
Structural Steel	128,060	Lbs.
Reinforcing Steel	44,940	Lbs.
Bearing Devices	4,595	Lbs.
Aluminum Handrail	456	Lin. Ft.
Expansion, Common	3,370	Cu. Yd.
12" Heavy Rip-Road	1090	Cu. Yd.
6" Sand & Gravel Backing	340	Cu. Yd.

DESIGN - AASD Spec. H-20-44 loading.
CONCRETE - Class "A" concrete, $f_c = 1200 \text{ psi}$. Bevel all exposed edges with a $\frac{3}{8}$ " triangular moulding unless otherwise noted.
REINFORCING STEEL - All dimensions shown relative to placing reinforcing steel are to 8 of bars unless otherwise noted. $f_s = 20,000 \text{ psi}$.
CONSTRUCTION JOINTS - Construction joints shown are optional with the contractor, but if used shall be made only at locations shown or as approved by the Engineer. See pouring sequence.
PILING - Piling to be driven to refusal or to a computed minimum bearing value of 50 tons per pile.
FOUNDATIONS - Test holes No. 1, 2, 3 drilled with a $\frac{3}{8}$ " jet by Sedgwick County.
PLAQUES - Contractor to provide and install two 12"x16" cast bronze alloy plaques on wall adjacent to end handrail post. Thickness and finish of plaques shall conform to Section 118.70 of "Kansas Standard Specifications". Sedgwick County to furnish full size detail drawing. Plaques shall not be paid for directly, but shall be considered as subsidiary to other items in the bridge contract.
HANDRAIL - Aluminum handrail, Kaiser # 3301, Alcoa # 9001, or equal to be used. Anchor bolts for handrail posts shall be of aluminum alloy and conform to manufacturers specifications. These bolts shall not be used for directly but shall be considered subsidiary to Aluminum Handrail.
OLD STRUCTURE - Bridge contractor to remove existing structure prior to construction of new bridge. Existing bridge consists of 3 simple spans, 28' 28" and 12' 34" - timber pile bents - 6 lines of 18" I-beams - laminated wood deck and timber posts and wingwalls. All material from the existing bridge deemed salvageable by the engineer shall be handled or disposed of on the site as directed by the engineer. All material not desired as salvage shall be wasted in a location as designated by the engineer.
TEST PILES - Two 24" test pile shall be driven in place and in a location designated by the engineer prior to approval of the necessary pile lengths for order.

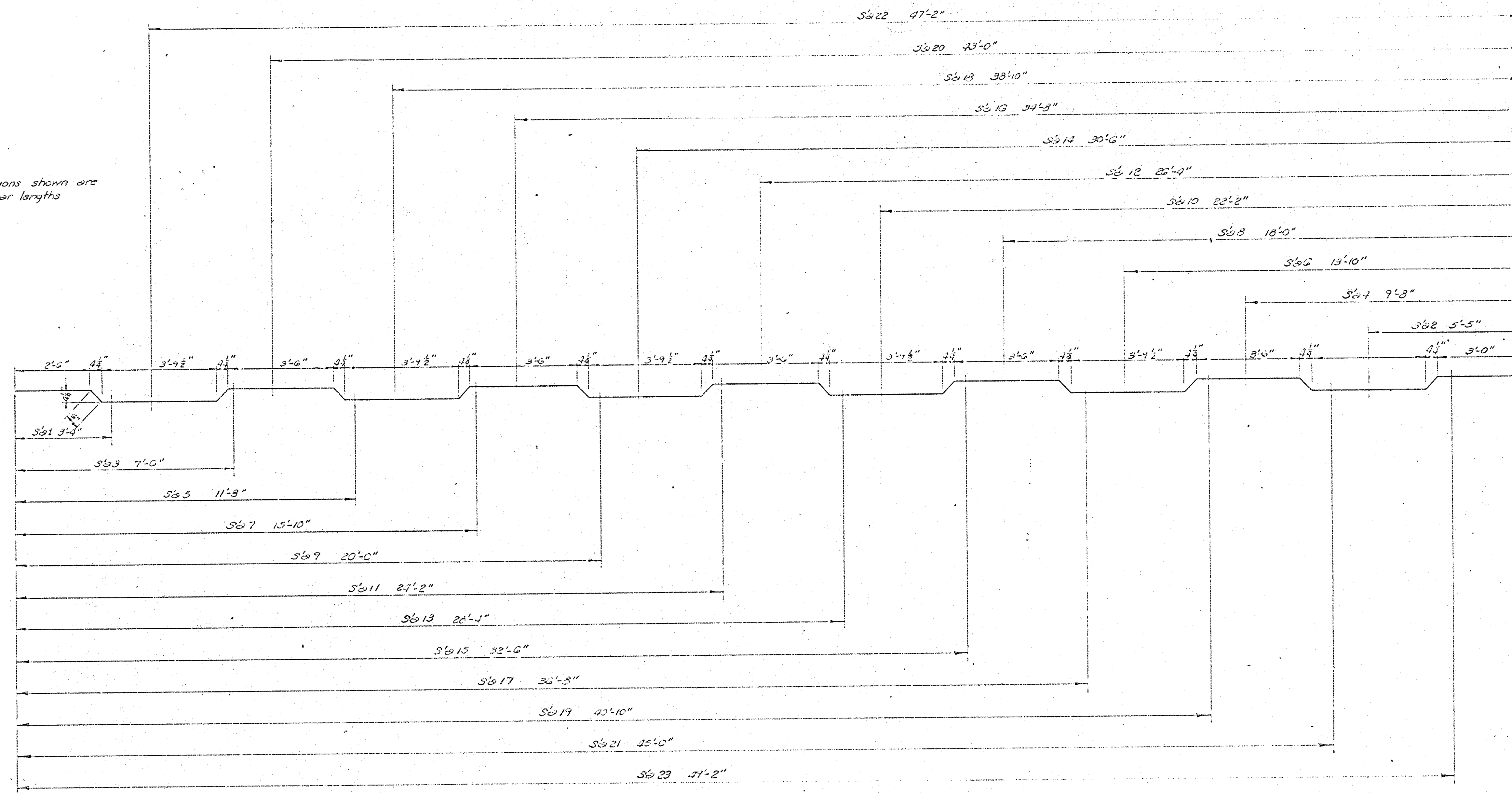


ABUTMENT, PIER, AND AUXILIARY DETAILS

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK - COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	As Shown	JVH	JVH	CJF	6 of 8
	DATE	3-57	11-57	11-57	
	PLANFILE		TOTAL SHEETS		

Notes:
Dimensions shown are
actual bar lengths

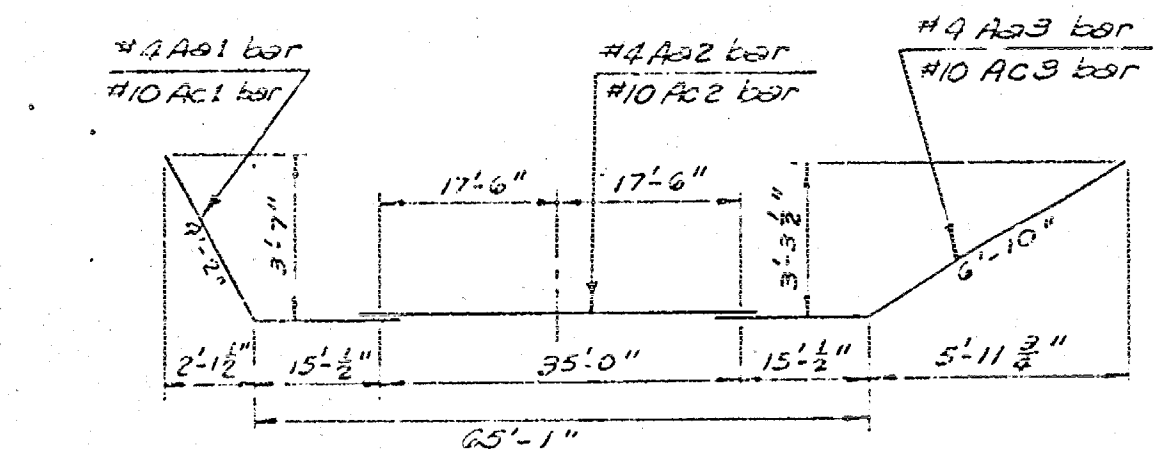


S61 through S623 Bar Diagrams (2 Sets Right)
Scale: 1/8" = 1'-0"

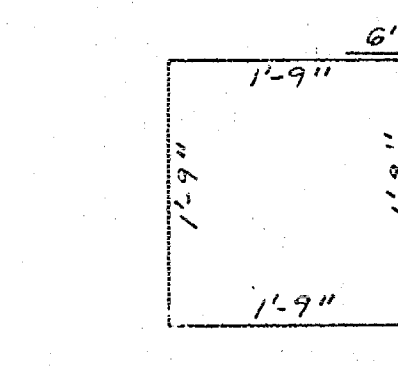
REINFORCING STEEL QUANTITIES

Bar Design	Location	Size	No.	Length	Weight	Remarks	Bar Design	Location	Size	No.	Length	Weight	Remarks
Aa1	Blk wall & Wingwalls	#4	12	19'-10"		Bar diag on Sh. #7	L1	Sloab	#4	448	21'-6"		Straight Bar
Aa2	" " "	#4	12	36'-0"		"	L2	"	#4	256	23'-7"		"
Aa3	" " "	#4	12	22'-6"		"	L3	"	#4	92	2'-6"		Bar diag Sh. #7
Ab	Abutment	#6	6	60'-0"	541	Straight bar	Po	Gap (Piers)	#5	20	60'-0"		Straight Bar
Ac1	Abut. & Wingwalls	#10	4	20'-4"		Bar diag on Sh. #7	Pb	"	#4	190	8'-0"		Bar diag Sh. #7
Ac2	" " "	#10	4	37'-11"		"	Sa	Sloab	#5	135	51'-9"		Bar diag Sh. #7
Ac3	" " "	#10	4	23'-10"		"	Sa1 thru Sa23	"	#5	26	Remarks	1504	Bar diag Sh. #7
Ad	Abutment	#10	4	60'-0"	1033	Straight Bar	Sb	"	#5	134	51'-2"		Bar diag Sh. #7
Ad	Blk wall & Abut.	#4	38	11'-0"		Bar diag on Sh. #7	3'b	"	#5	48	Remarks	1296	Bar diag Sh. #7
Ad	" " "	#4	38	11'-7"		"	3c	"	#5	134	58'-2"		Bar diag Sh. #7
Ae	" " "	#4	36	3'-0"		Straight Bar	3c	"	#5	50	Remarks	1582	Bar diag Sh. #7
Ae	" " "	#4	36	3'-6"		"	3c1	"	#5	1	7'-0"		Bar diag Sh. #7
Af	Blk wall & NE & SW	#4	4	6'-11"		Bar diag Sh. #7	Wb	SW Wingwall	#4	8	Remarks	90	Bar diag Sh. #7
Af	Blk wall & NW & SE	#4	4	9'-7"	26	"	Wb	SE Wingwall	#4	14	Remarks	168	Bar diag Sh. #7
Ag	Backwall	#4	8	4'-6"		Straight Bar	Wb	All Wingwalls	#4	16	Remarks	249	Straight Bars
Ah	"	#4	8	5'-6"		"	Wc	NE & SW Wingwalls	#4	4	Remarks	6'-0"	Bar diag Sh. #7
Al	Abutment	#4	4	60'-0"	160	"	Wd	NW & SE Wingwalls	#4	4	Remarks	8'-6"	"

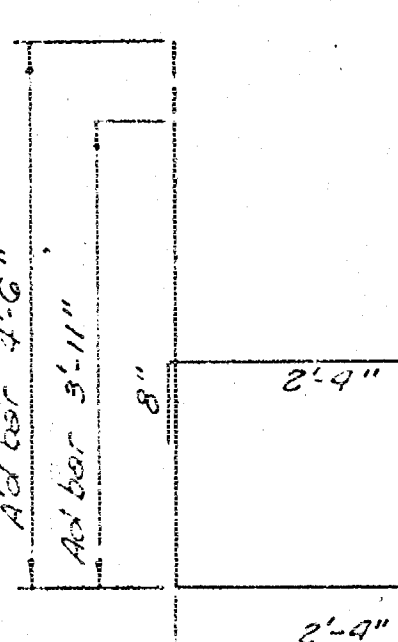
NOTE:
Dimensions of bar lengths are indicated to
the nearest inch.



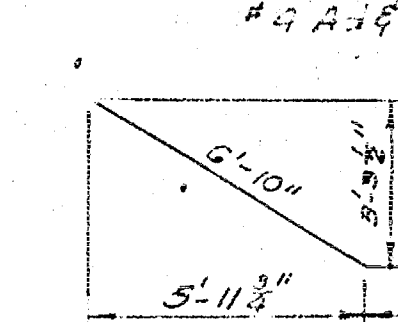
Aa1, Aa2, Aa3, Ac1, Ac2, & Ac3 bars



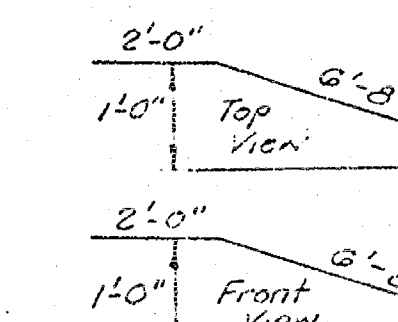
#4 Pb bars



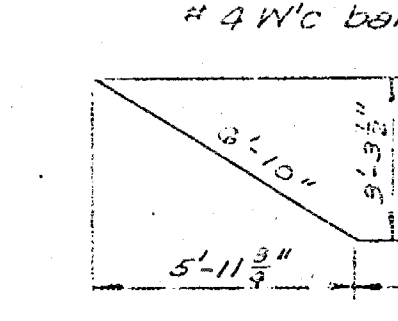
#4 Wd bar



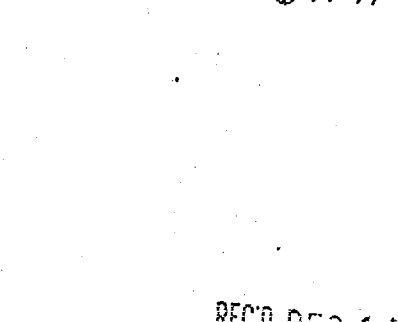
#4 Af bars



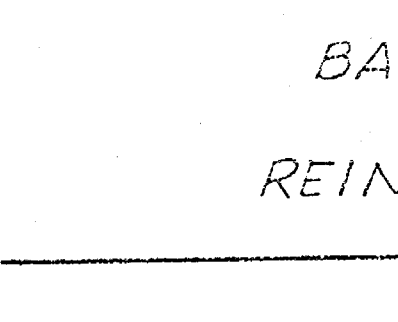
#4 Wc bars



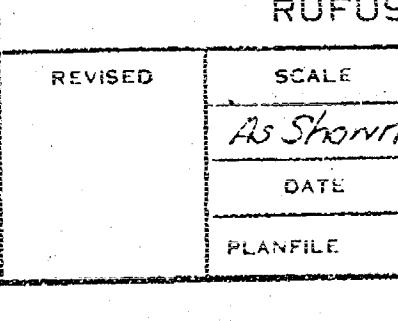
#4 Wd bars



#4 Wc bars



#4 Wd bars



#4 Wc bars

BAR DIAGRAMS
No Scale

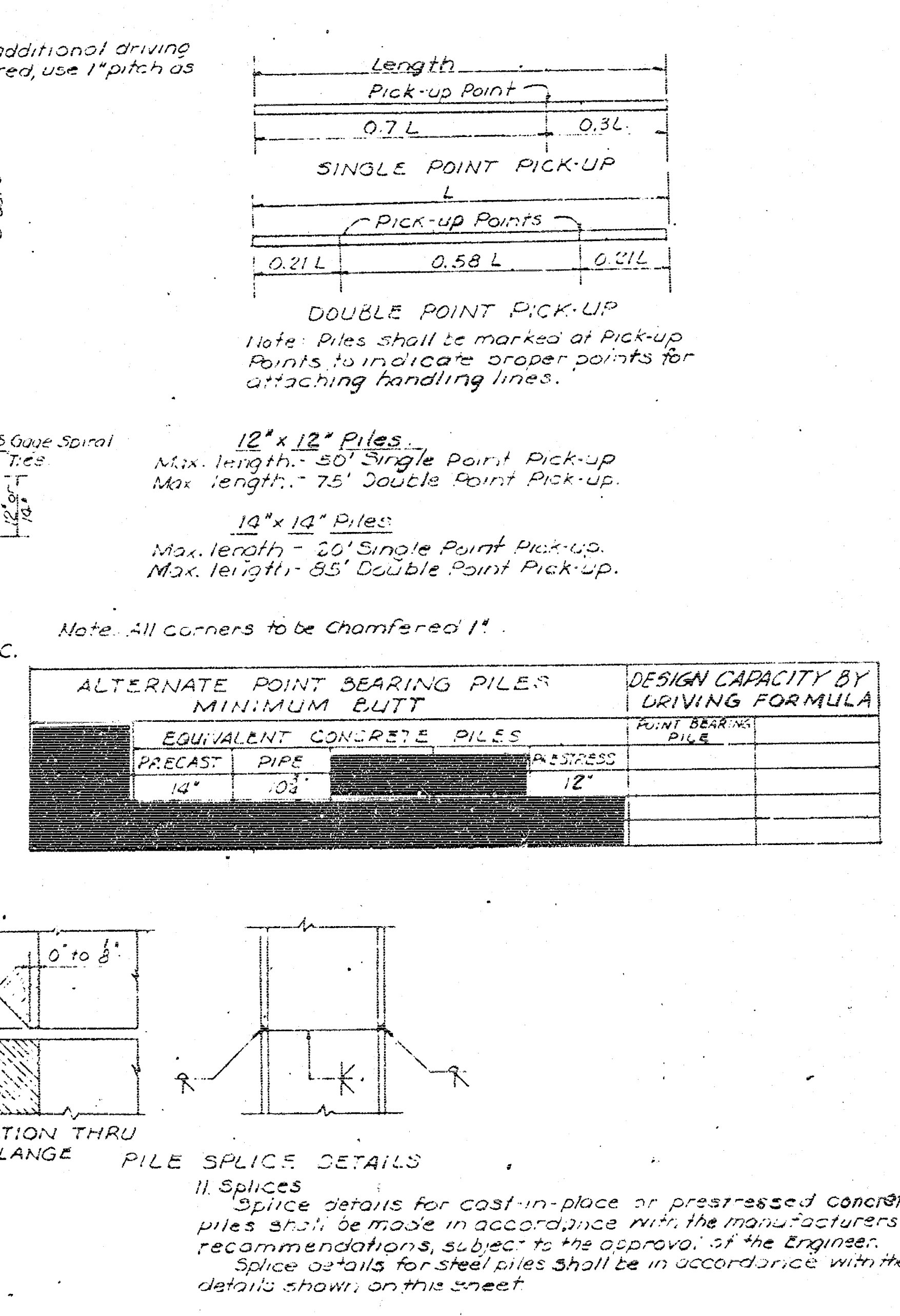
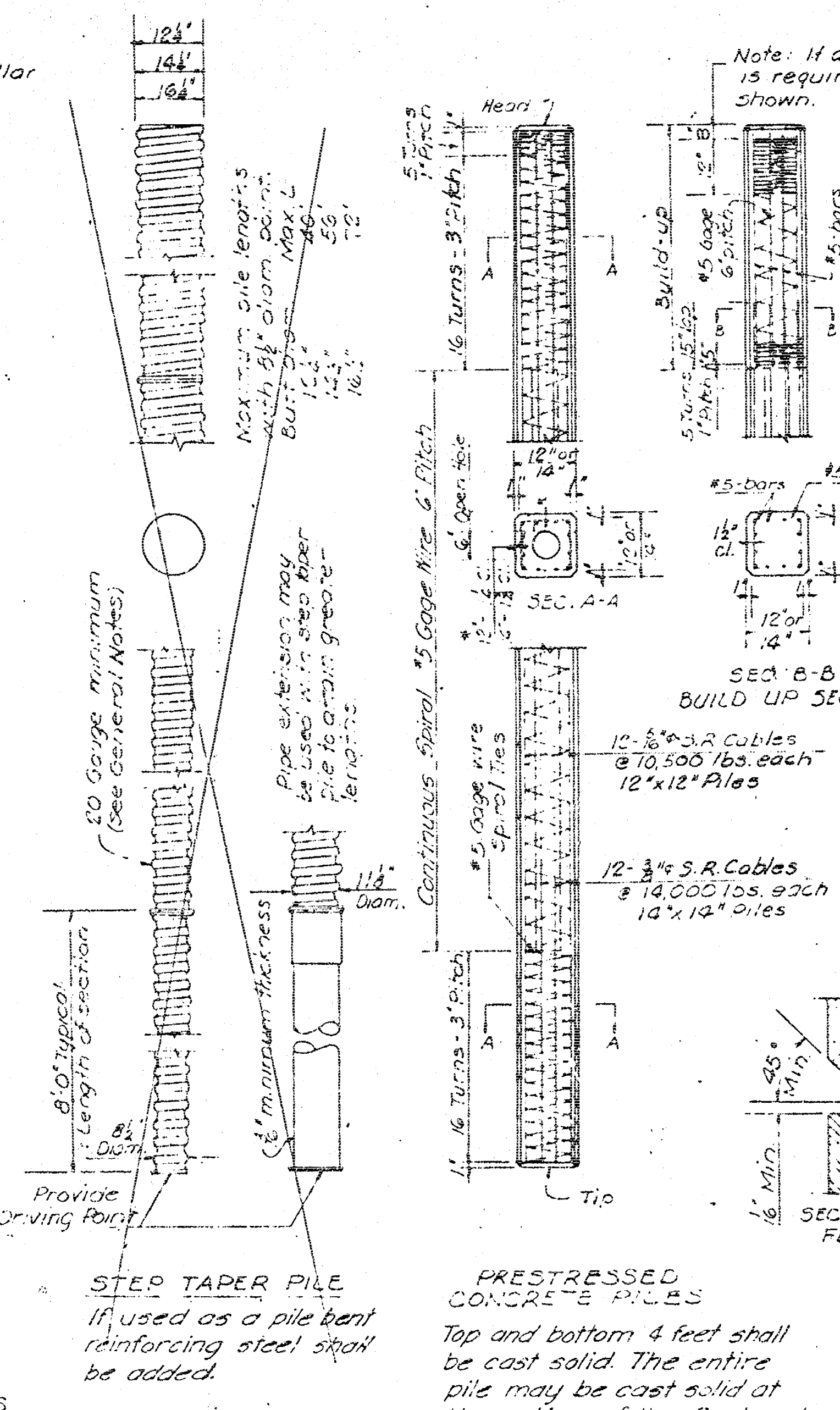
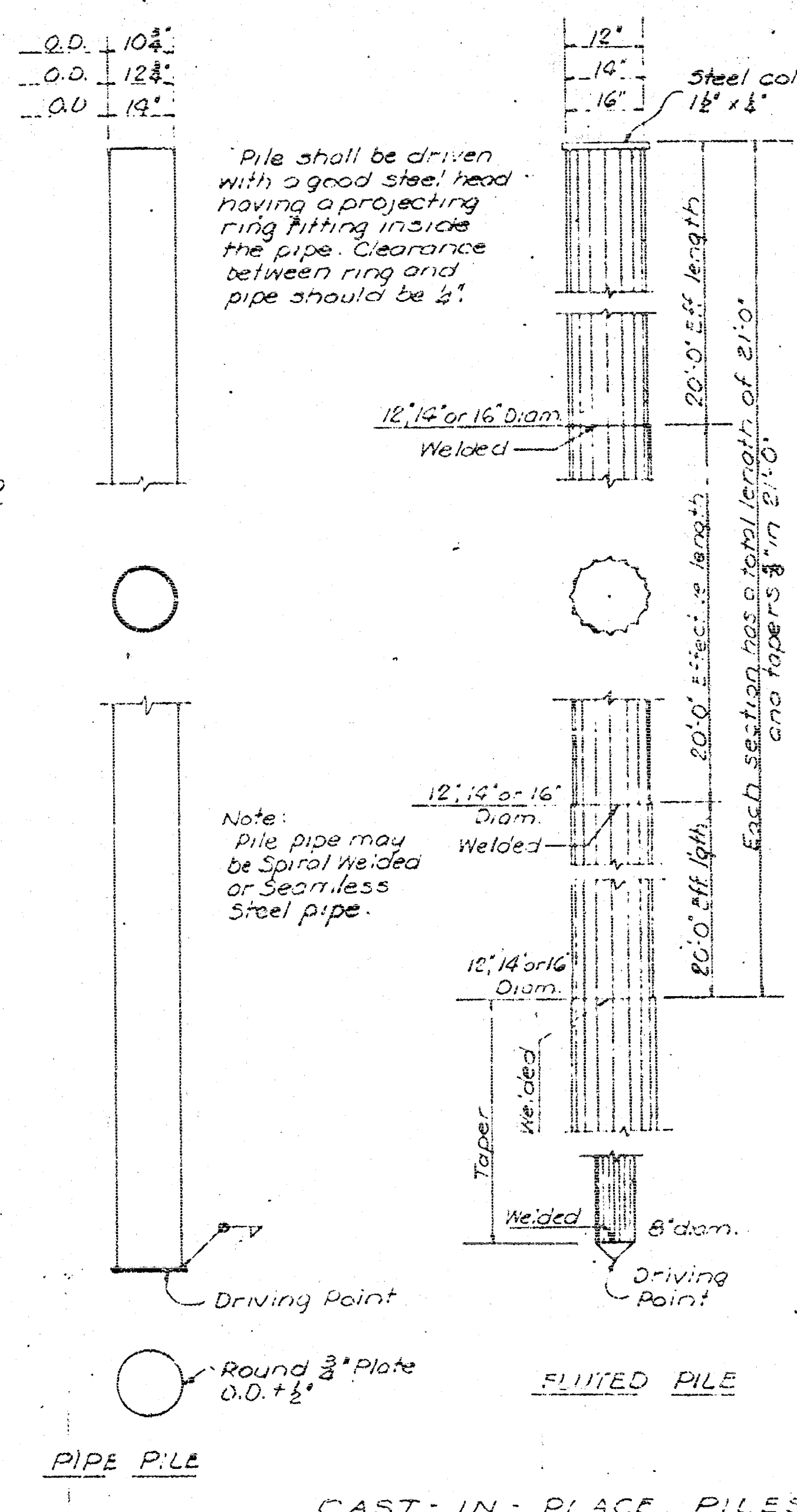
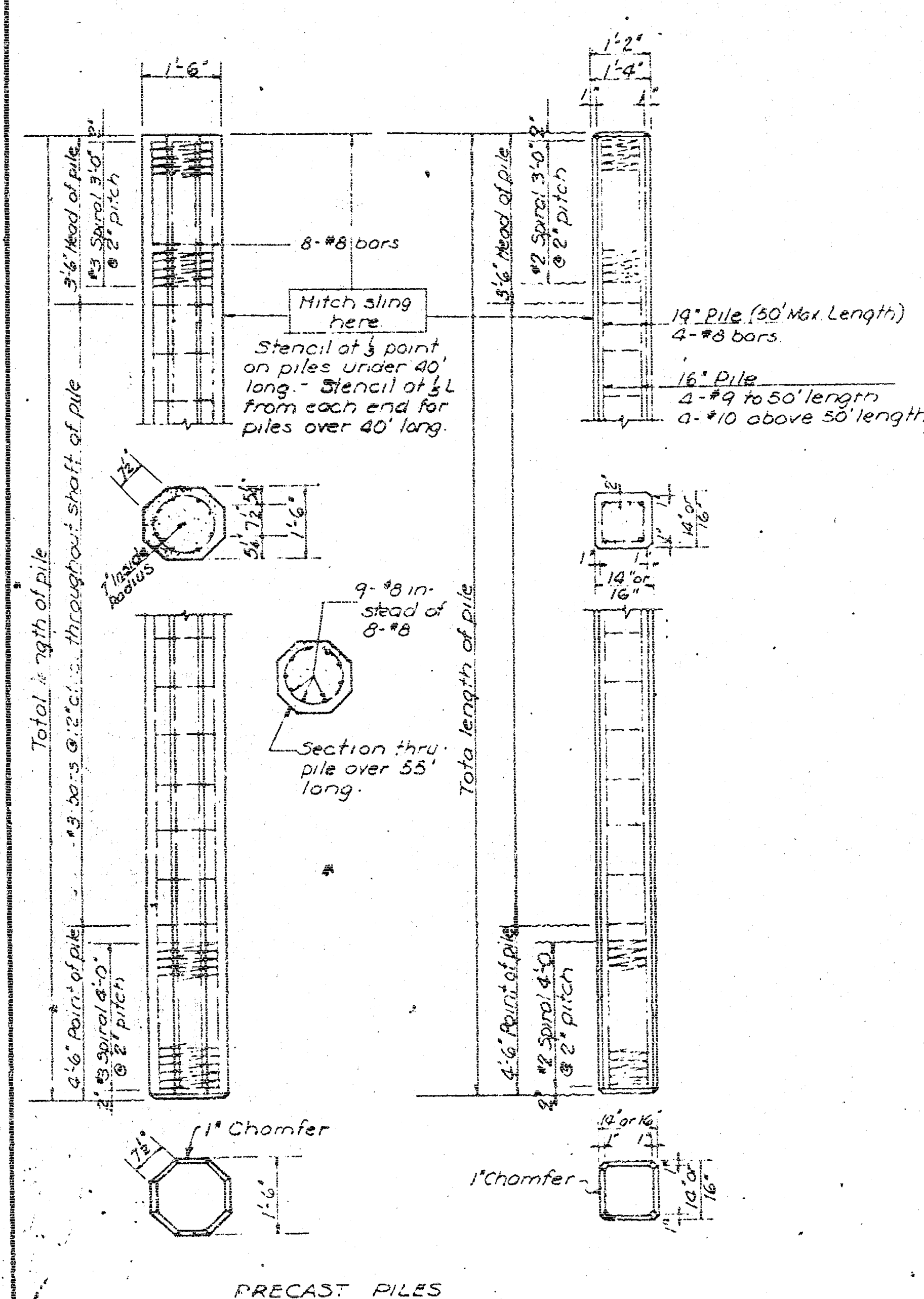
RECD OF 10 1957

BAR DIAGRAMS AND REINFORCING STEEL QUANTITIES

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK - COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	As Shown	J.V.H.	J.V.H.	C.V.F.	7 of 8
	DATE	3-57	11-57	11-57	
	PLANFILE		TOTAL SHEETS		

PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS		195		



General Note:

1. Specifications
Standard Specifications for State Road and Bridge Construction
as currently used by State Highway Commission of Kansas.

2. Choice of Piles

2. Choice of Piles

As indicated in the plans, piles will be considered as point bearing piles or friction piles. Where point bearing piles are specified, the contractor may elect to use either the steel pile specified on the footing plans or the equivalent precast concrete, cast-in-place concrete or prestressed concrete pile shown in the details on this sheet. Where friction piles are specified, the contractor may elect to use either the steel and type concrete pile specified on the footing plans or the equivalent precast concrete, cast-in-place concrete or prestressed concrete pile shown in the details on this sheet. Steel piles and not all types of concrete piles have adequate friction piles are specified. Other types of concrete piles not shown here are subject to the approval of the Engineer.

3. Concrete

3. Concrete
All concrete for precast and cast-in-place shall be Class 'A' $f_c' = 3000$ p.s.i.. Concrete for Prestressed piles shall be Class AAA $f_c' = 4000$ p.s.i.

4. Reinforcement.
Reinforcing bars shall be new billet steel of intermediate grade without exception. Hoops and spirals may be either plain or deformed bars.

5. Precast Piles.

5. Precast Piles.
Precast piles shall conform to the requirements of Section 59.310 of the specifications.

6. Cast-in-place Shells

A. Pile shells shall have a minimum thickness as follows:

1. Piles driven without mandrel - 8 gage except fluted pile use 9 gage minimum.
2. Piles driven with mandrel Shell shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to soil pressure after being driven and the mandrel removed.

8. Die shells shall meet the following material requirements:

1. Fluted steel sheets and steel coils. One told us that this is the best for open heartn steel.

2. Spiral welded steel-ASTM designation, A252, Grade 2, Electric Fusion-Welded Spiral Seam Steel Pipe.

3. Seamless Steel pipe - A.S.T.M. A252, Welded and Seamless Steel

4. Corrugated steel shell - SAE 1000.

C. The contractor shall maintain on the job at all times prior to and during the filling of the shells a light suitable for

18 and during the firing of the shots, eight to twelve in their inspection.

D. Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer by removal and replacement, or the driving of an additional pile at no extra cost.

Tool Files

tree! Files
which do not meet the requirements of ASTM 67-517

3. Real time materials simulation: the requirements of materials will

Drive Points
All cast-in-place piles shall be equipped with a steel driving point or

minimum thickness. Driving points shall be mill welded to the pile

all. Driving points shall be either hot pressed steel meeting the requirements of SAE 1020 for forged steel, or cast steel meeting the

Measurements of A.S.T.M. Serial No. A-87-40, Grade 2, or Structural Steel
using the measurements of A.S.T.M. A7-53T

Steel piles shall have a square cut end only. No driving point is required.

4/10/00

All field welding shall meet the requirements of Section 51.34 of the

indications

shall comply with the Kansas Standard Specifications (1955 Edition).

When comply with the above

REC'D DEC 19 1957

REC'D DEC 19 1957 sheet

STANDARD PILE DETAILS 8.

0.4

SHEET NO	OF	SCALE	APP'D
DESIGNED		CHECKED	QUANTITIES
			TRACED

DESIGN CK	DETAIL CK	QUAN CK	TRACE CK
-----------	-----------	---------	----------