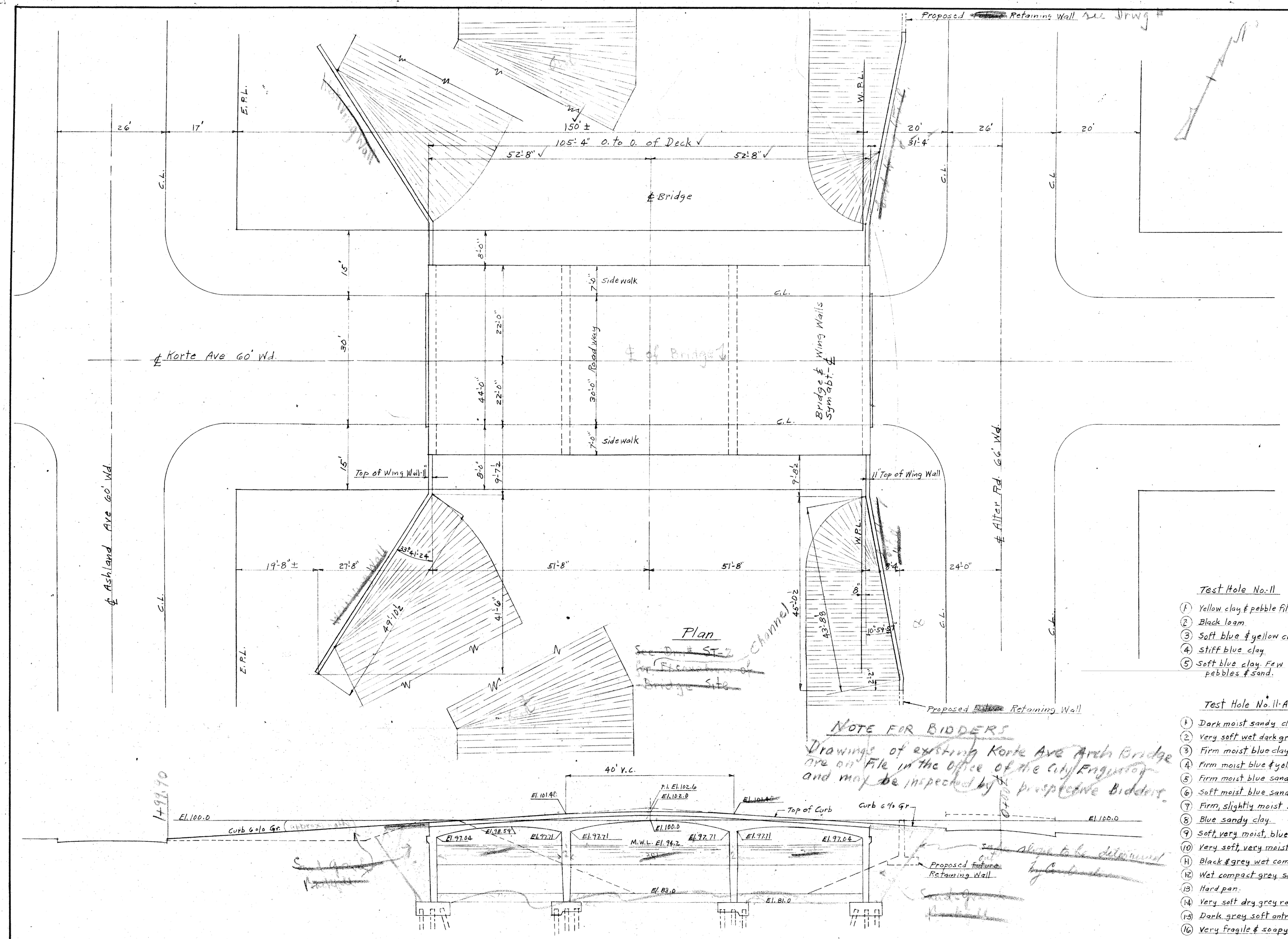

Profile on ℄ of Bridge
Curb Grades shown

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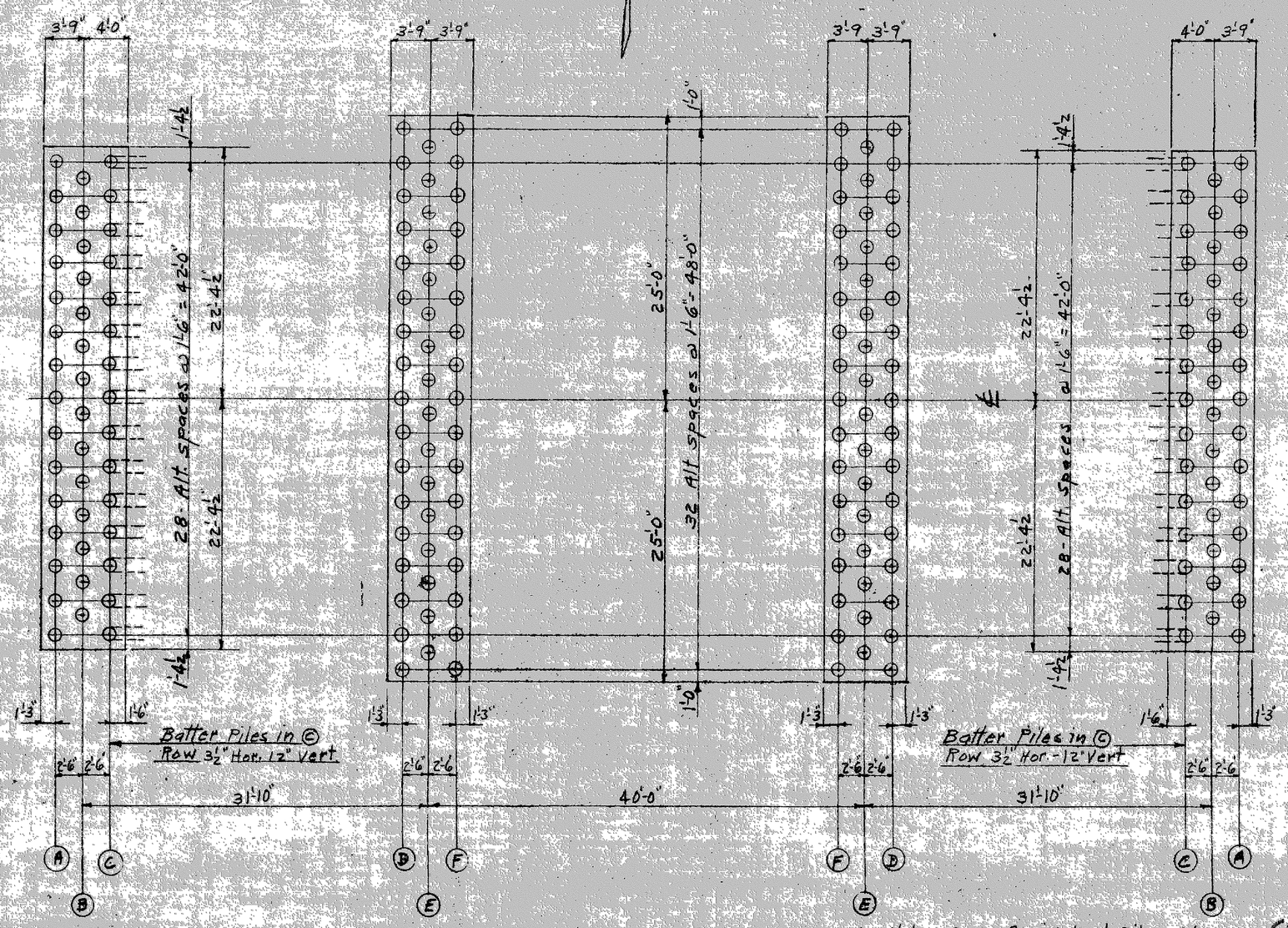
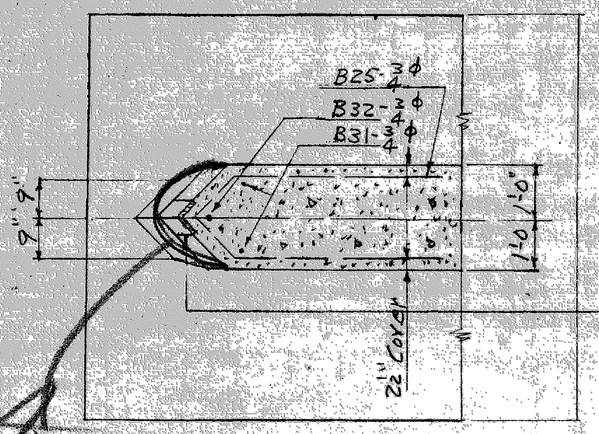


Foundation & Pile Plan
scale 1/8" = 1'-0"

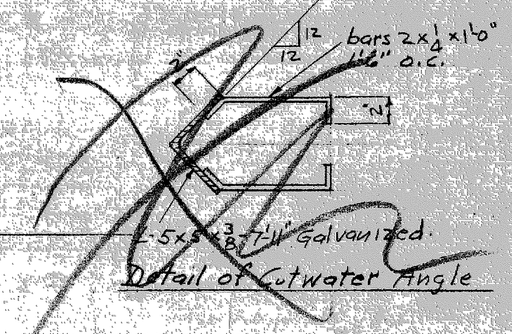
Note: Tops of Finished Piles El. 79.58 (Cutoff)

Piles for wing walls not shown see Drwg. # ST 748
All piles in Bridge Foundations shall be driven to safely sustain a load of 20 Tons each.

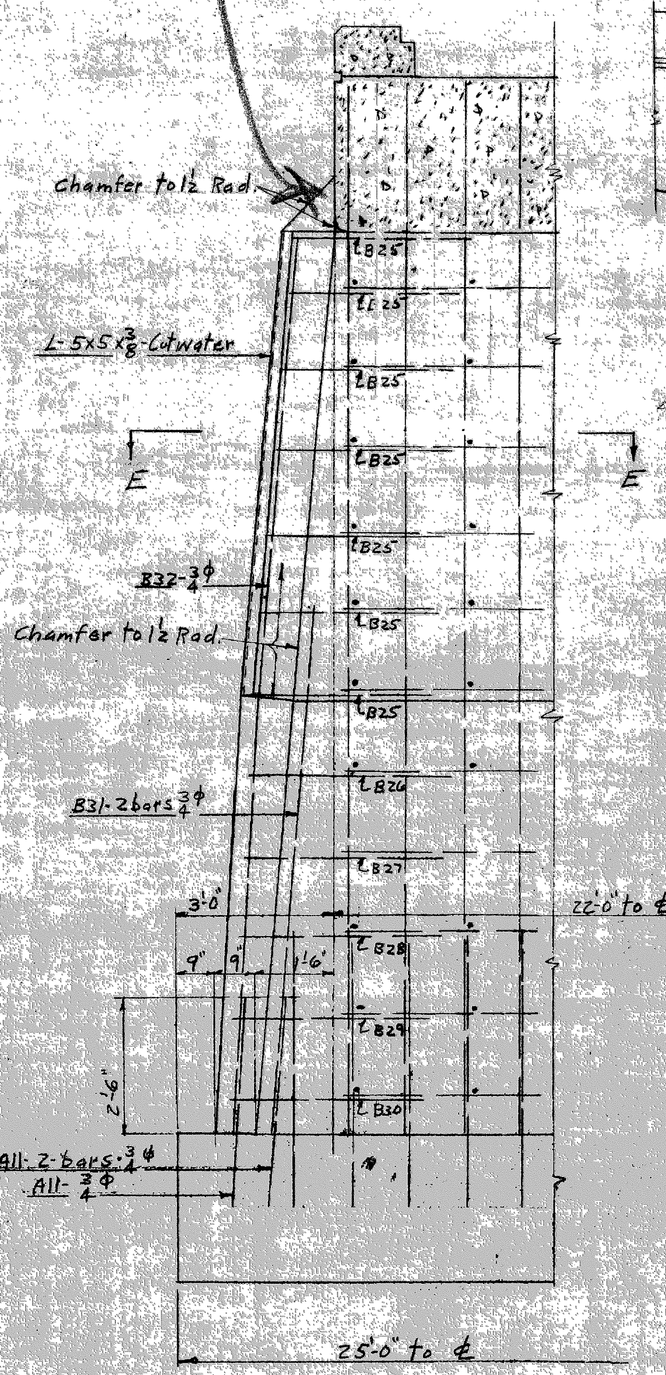
Excavation Plan
Transition Section



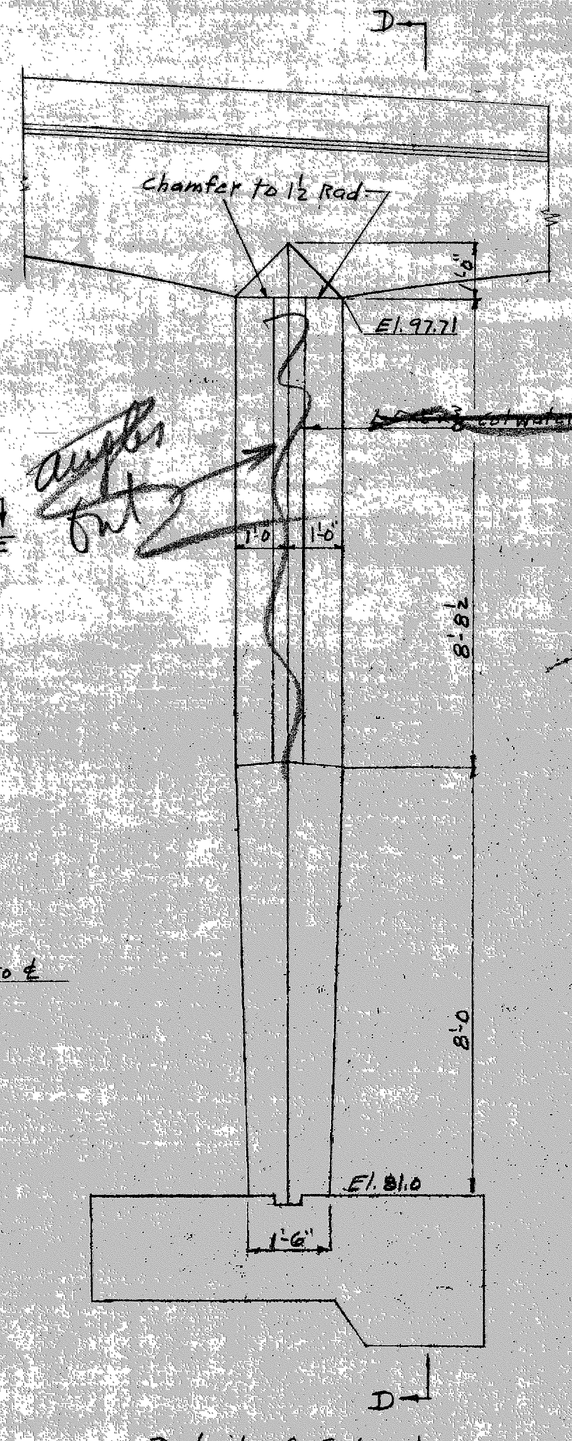
Plan Sect "E-E"



Detail of Cutwater Angle

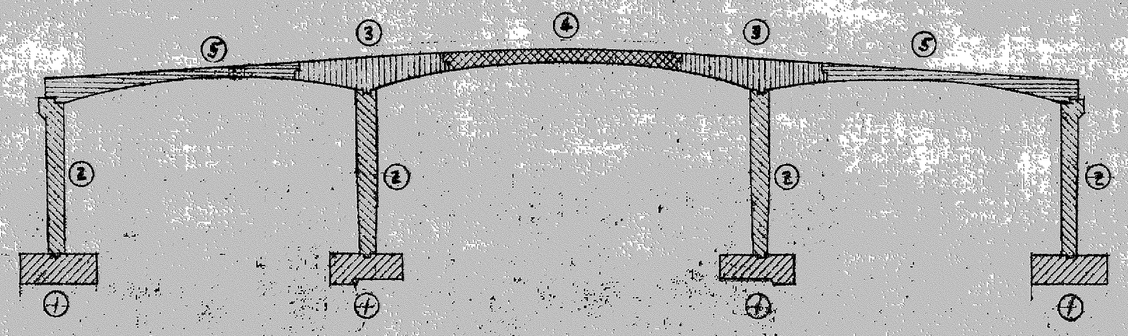


Sect "D-D"



Angles fit

Detail of Cutwater At Interior Pier Ends



Concrete Placing Schedule
Order of placement as follows:

- 1st Operation
- 2nd "
- 3rd "
- 4th "
- 5th "

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FOUNDATION PLAN & PIER DETAIL III

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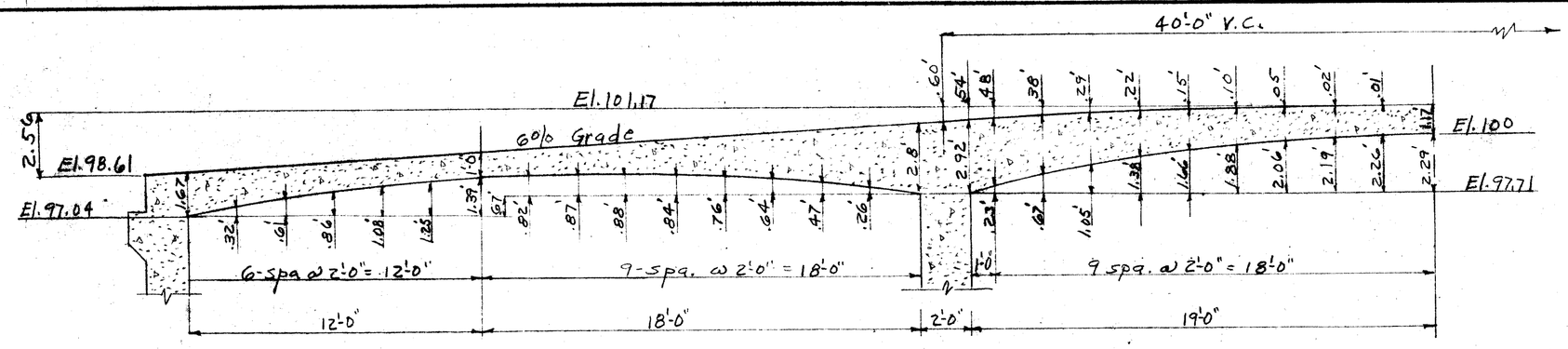
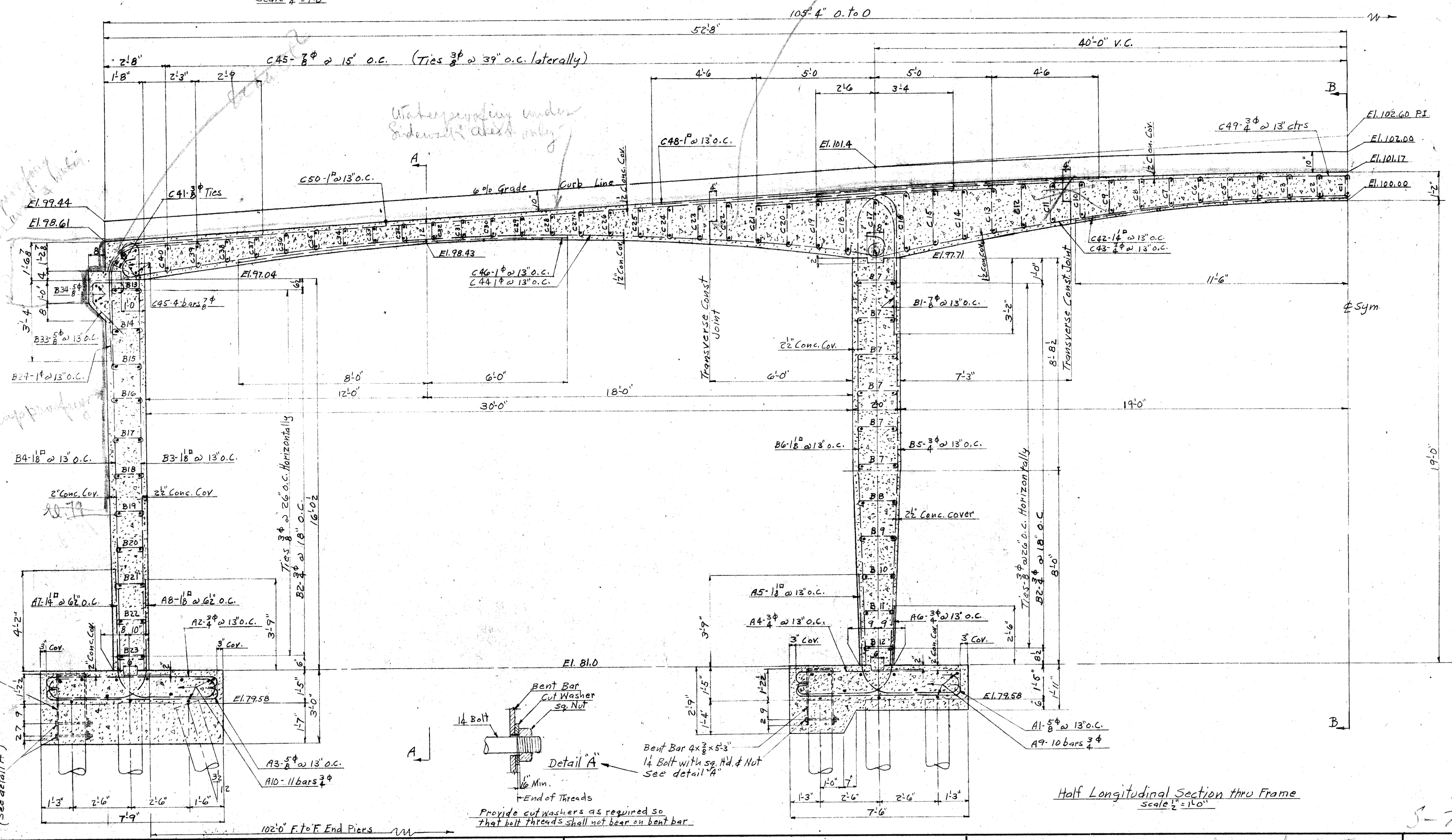


Half Longitudinal Section on Roadway Center Line
Showing Soffit and Grade Elevations
Scale 1/4" = 1'-0"



Detail "A"

Provide cut washers as required so that bolt threads shall not bear on bent bar.

Half Longitudinal Section thru Frame
Scale 1/2" = 1'-0"

G						
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Korte Ave Bridge

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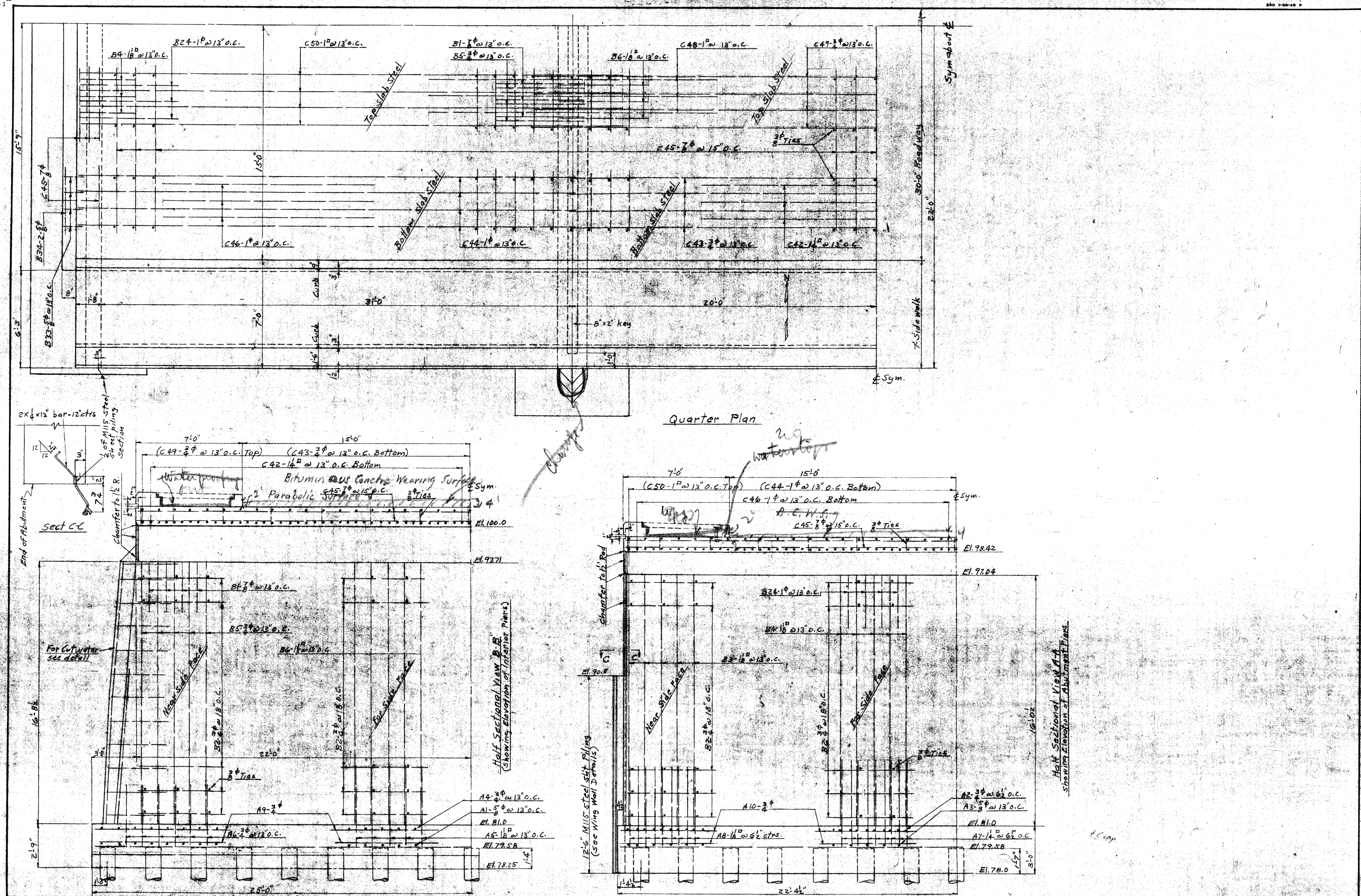
S-776-3

B/P 9/6/45



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Kercheval Ave Bridge
DEVELOPED FOR DETAILING

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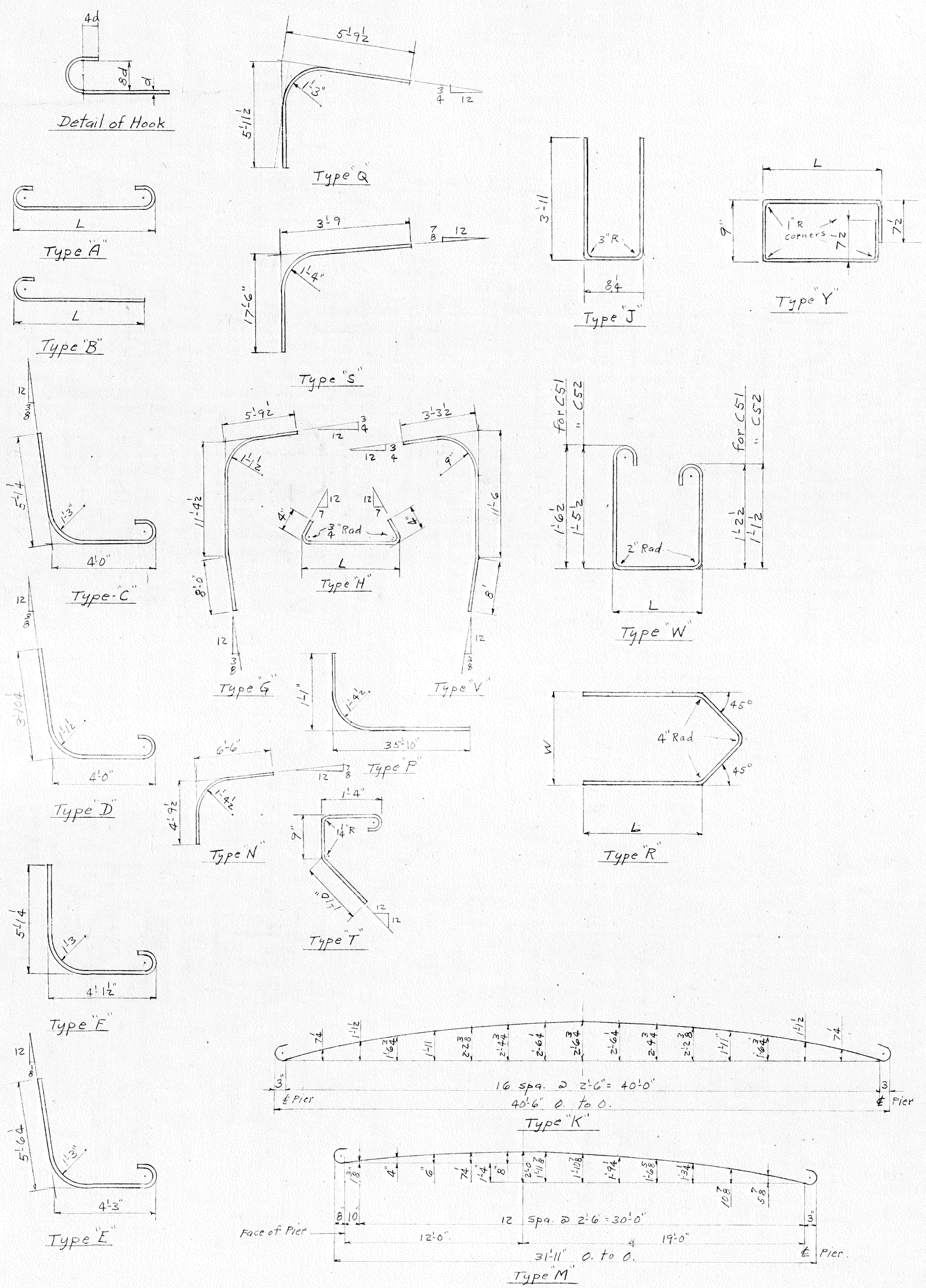

Mark	No.	Size	Length	Type	Distance L	Distance W	Remarks
C6	30	3/8 φ	1'-9"	H	1'-0"		Deck Center Span
C7	30	3/8 φ	1'-9"	H	1'-1"		" " "
C8	30	3/8 φ	2'-0"	H	1'-2 1/4		" " "
C9	30	3/8 φ	2'-0"	H	1'-3 1/2		" " "
C10	30	3/8 φ	2'-3"	H	1'-5 1/4		" " "
C11	30	3/8 φ	2'-3"	H	1'-7"		" " "
C12	30	3/8 φ	2'-6"	H	1'-9"		" " "
C13	30	3/8 φ	2'-9"	H	1'-11"		" " "
C14	30	3/8 φ	2'-9"	H	2'-1 3/8		" " "
C15	30	3/8 φ	3'-0	H	2'-3 5/8		" " "
C16	30	3/8 φ	3'-3"	H	2'-6 1/4		" " "
C17	30	3/8 φ	3'-6"	H	2'-9 1/8		" " "
C18	30	3/8 φ	3'-3	H	2'-4 3/4		Deck End spans
C19	30	3/8 φ	3'-0"	H	2'-4 7/8		" " "
C20	30	3/8 φ	2'-9"	H	1'-11 1/4		" " "
C21	30	3/8 φ	2'-6"	H	1'-8 3/4		" " "
C22	30	3/8 φ	2'-3"	H	1'-6 1/2		" " "
C23	30	3/8 φ	2'-0"	H	1'-4 1/2		" " "
C24	30	3/8 φ	2'-0"	H	1'-2 3/4		" " "
C25	30	3/8 φ	1'-9"	H	1'-1 1/8		" " "
C26	30	3/8 φ	1'-9"	H	11 1/2		" " "
C27	30	3/8 φ	1'-6"	H	10 1/2		" " "
C28	30	3/8 φ	1'-6"	H	9 5/8		" " "
C29	30	3/8 φ	1'-6"	H	8 3/4		" " "
C30	30	3/8 φ	1'-6"	H	8 1/4		" " "
C31	30	3/8 φ	1'-6	H	7 7/8		" " "
C32	60	3/8 φ	1'-6"	H	7 3/4		" "
C33	30	3/8	1'-6"	H	8		" "
C34	30	3/8	1'-6"	H	8 1/2		" " "
C35	30	3/8	1'-6"	H	9		" " "
C36	30	3/8	1'-6"	H	9 5/8		" " "
C37	30	3/8	1'-6"	H	10 5/8		" " "
C38	30	3/8	1'-9"	H	11 5/8		" " "
C39	30	3/8	1'-9"	H	1'-0 7/8		" "
C40	30	3/8	2'-0	H	1'-2 3/8		" " "
C41	60	3/8	2'-0"	H	1'-4 3/4		" " "
C42	40	1/4 □	23'-0"	straight			Deck Center Span
C43	41	3/4 φ	42'-9"	K			" " "
C44	82	1 φ	34'-6"	M			Deck End Spans
C45	170	7/8 φ	43'-6"	straight			Deck
C46	80	1 φ	14'-0"	"			Deck End Spans
C48	80	1 □	19'-0"	straight			Over Center Piers
C49	41	3/4 φ	45'-0"	"			Deck Center Span
C50	82	1 □	36'-6"	P			Deck End Spans
C51	170	1/2 φ	5'-3"	W	1'-3		Deck Curbs
C52	170	1/2 φ	4'-3"	W	6		" "
C53	60	1/2 φ	20'-0"	straight			" "
D1	56	3/4 φ	8'-6"	J			Railing Posts
D2	60	3/8 φ	4'-3"	Y	1'-1"		" "
D3	12	3/8 φ	7'-3"	Y	2'-6 5/8		" "

Mark	No.	Size	Length	Type	Distance L	Distance W	Remarks
A1	94	5/8 φ	8'-6"	A	7'-0"		Interior Footings
A2	162	3/4 φ	9'-0"	A	7'-3"		End "
A3	84	5/8 φ	8'-9"	A	7'-3"		" "
A4	94	3/4 φ	8'-0"	B	7'-0"		Interior "
A5	86	1/8 □	9'-9"	C			" "
A6	86	3/4 φ	8'-3"	D			" "
A7	162	1/4 □	10'-6"	E			End "
A8	162	1 1/8 □	10'-0"	F			" "
A9	20	3/4 φ	49'-6"	straight			Interior "
A10	22	3/4 φ	44'-3"	"			End "
A11	12	3/4 φ	4'-9	B	3'-10 1/4		Interior "
B1	80	7/8 φ	11'-3"	Q			Interior Piers
B2	88	3/4 φ	43'-6"	straight			End & Interior "
B3	82	1/8 □	19'-0"	B	17'-7		End Piers
B4	82	1/8 □	20'-9"	S			" "
B5	82	3/4 φ	22'-6"	V			Interior Piers
B6	82	1/8 □	24'-6"	G.			" "
B7	252	3/8 φ	2'-3"	H	1'-5 7/8		" "
B8	42	3/8 φ	2'-3"	H	1'-4 7/8		" "
B9	42	3/8 φ	2'-0"	H	1'-3 3/4		" "
B10	42	3/8 φ	2'-0"	H	1'-2 5/8		" "
B11	42	3/8 φ	1'-9"	H	1'-1 1/2		" "
B12	42	3/8 φ	1'-9"	H	1'-0 3/8		" "
B13	42	3/8 φ	2'-0"	H	1'-2		End "
B14	42	3/8 φ	2'-0"	H	1'-1 3/4		" "
B15	42	3/8 φ	1'-9"	H	1'-1 1/2		" "
B16	42	3/8 φ	1'-9"	H	1'-1 3/8		" "
B17	42	3/8 φ	1'-9"	H	1'-1 1/4		" "
B18	42	3/8 φ	1'-9"	H	1'-1		" "
B19	42	3/8 φ	1'-9"	H	1'-0 3/4		" "
B20	42	3/8 φ	1'-9"	H	1'-0 5/8		" "
B21	42	3/8 φ	1'-9"	H	1'-0 3/8		" "
B22	42	3/8 φ	1'-9"	H	1'-0 1/4		" "
B23	42	3/8 φ	1'-9"	H	1'-0"		" "
B24	80	1 φ	10'-9"	N	2'-6		" "
B25	28	3/4 φ	7'-3"	R	3'-0	1'-7	Interior "
B26	4	3/4 φ	8'-0"	R	3'-0	1'-6	" "
B27	4	3/4 φ	8'-0"	R	3'-0	1'-4 7/8	" "
B28	4	3/4 φ	7'-9"	R	3'-0"	1'-3 3/4	" "
B29	4	3/4 φ	7'-9"	R	3'-0	1'-2 5/8	" "
B30	4	3/4 φ	7'-6"	R	3'-0	1'-1 1/2	" "
B31	8	3/4 φ	10'-0"	straight			" "
B32	4	3/4 φ	16'-9"	"			" "
B33	60	5/8 φ	4'-6"	T			End "
B34	4	5/8 φ	31'-0"	straight			End "
C1	15	3/8 φ	1'-6"	H	9 3/4		Deck Center Span
C2	30	3/8 φ	1'-6	H	9 7/8		" " "
C3	30	3/8 φ	1'-6	H	10 1/8		" " "
C4	30	3/8 φ	1'-6	H	10 1/2		" " "
C5	30	3/8 φ	1'-9"	H	11 1/4		" " "

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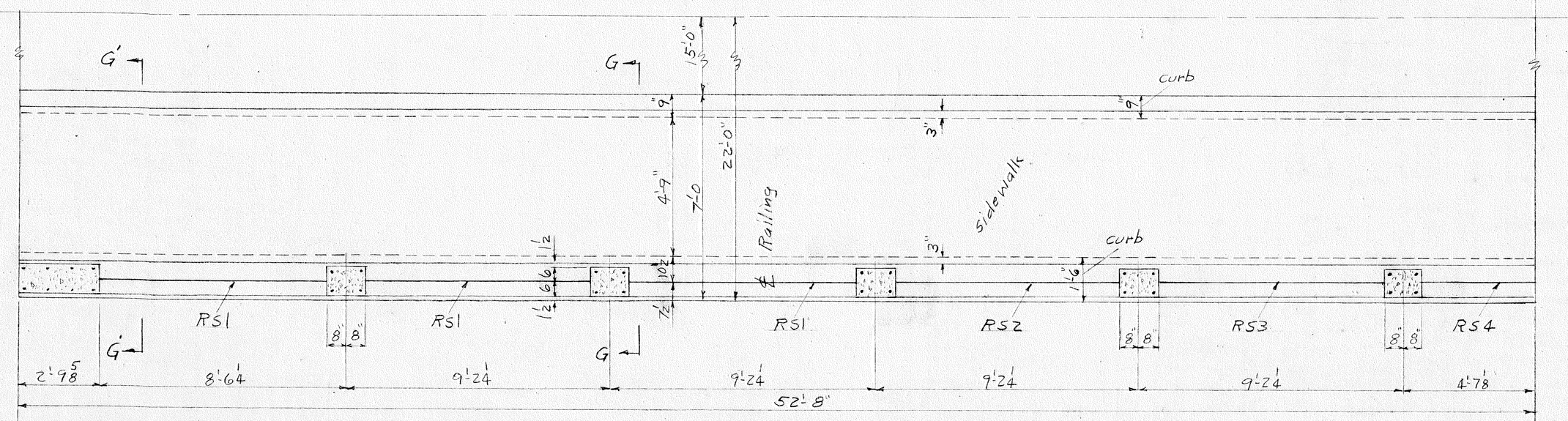
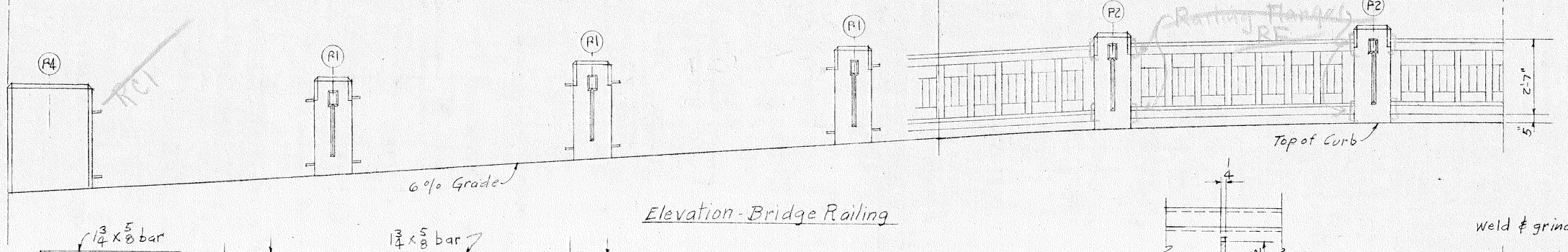
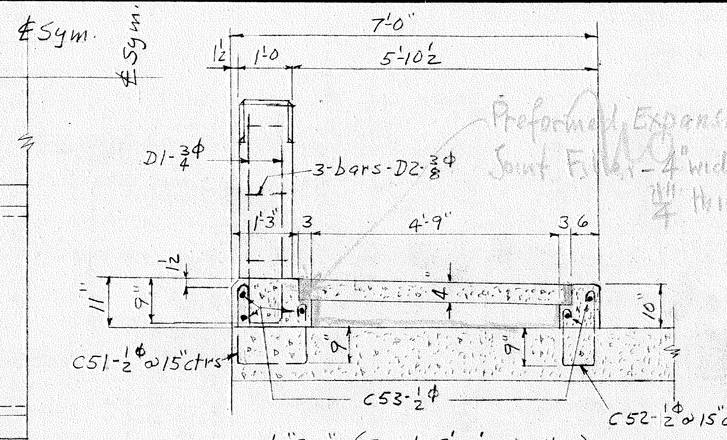


Quarter Plan - Sidewalks & Railings

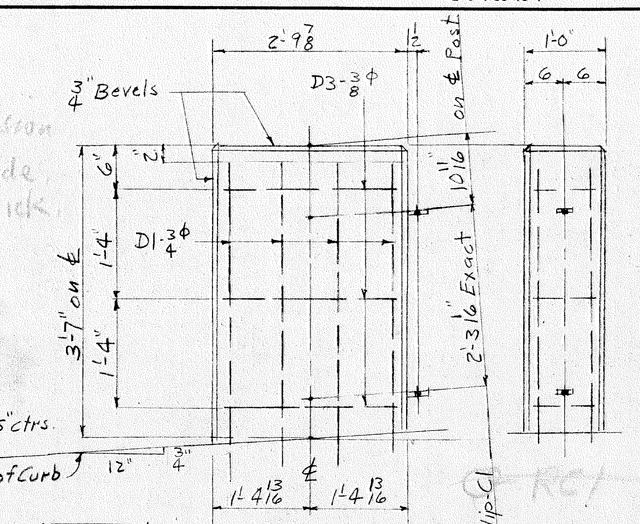


Elevation - Bridge Railing

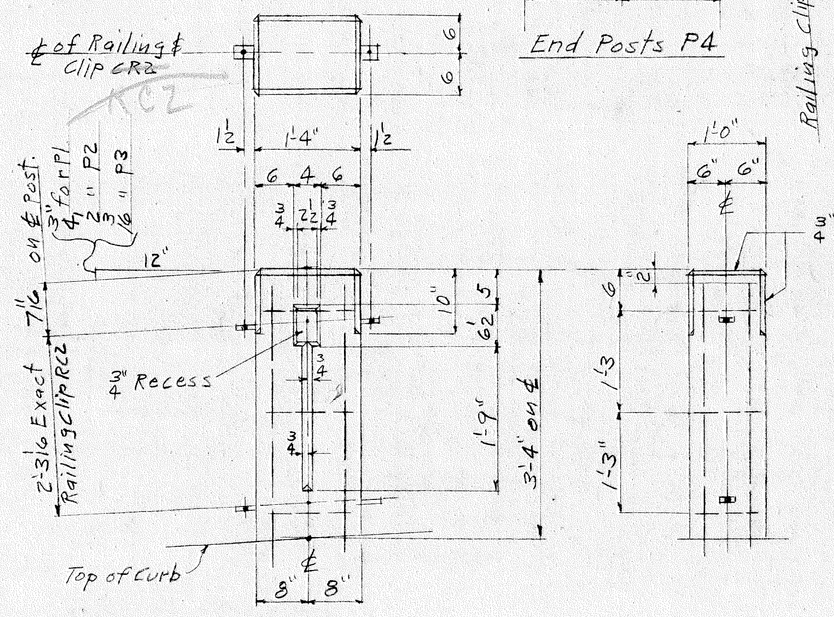


Sect "GG" (Sect G'-G' similar)

Note:- 1½" Conc. Cover for bars

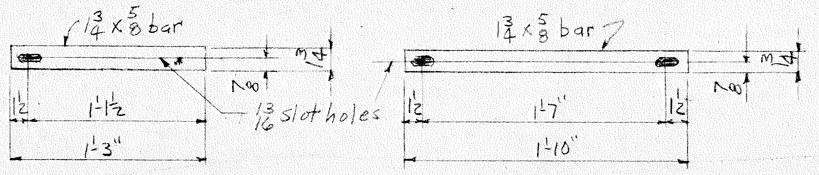


End Posts P4

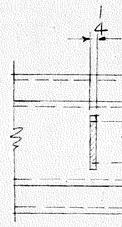


Inter-mediate Railing Posts P1-P2-P3

Posts recesse on both sides as shown

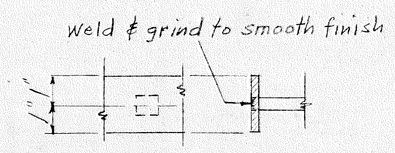


Railing Clips - RC1 Railing Clips RC2



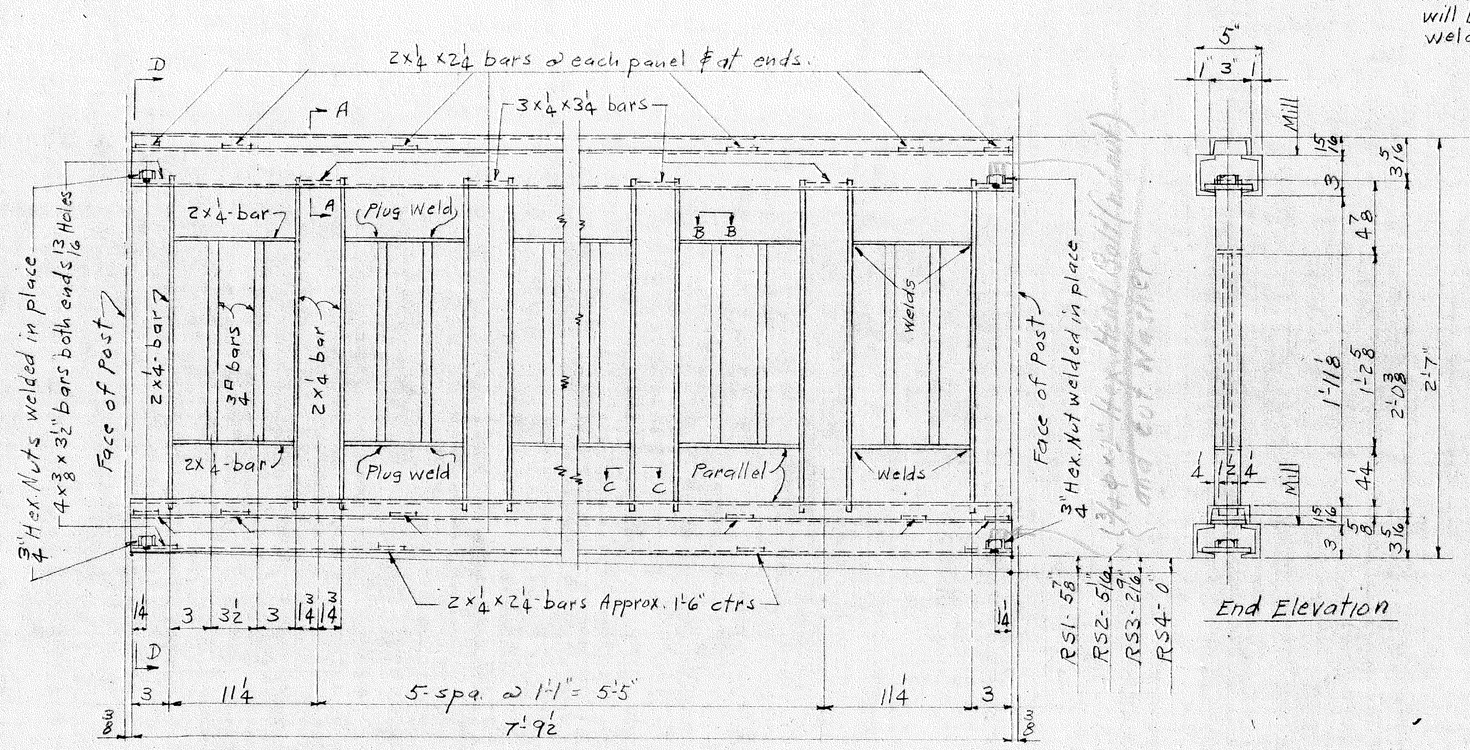
1½ x ¼ Slot in web of ⊔ for 2 x ¼ bar cut to fit at end. If slot does not provide a tight fit for the bar in the opinion of the Engineer, the fabricator will be required to fill the excess opening with weld metal and grind to a smooth finish.

Sect "C-C"



Punch 13/16 D hole in 2 x ¼ bar & plug weld to ¾" bar

View "B-B"

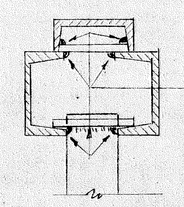


Railing Note: All railing sections to be completely Electric welded in shop in a template so constructed as to prevent distortion

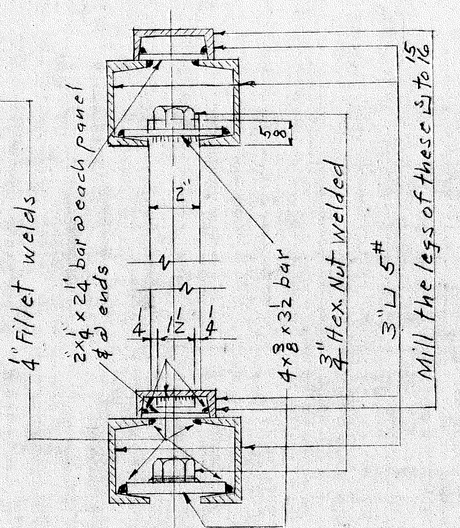
Typical Detail of Railing Sections RS1-RS2-RS3-RS4

Scale 1½" = 1'-0"

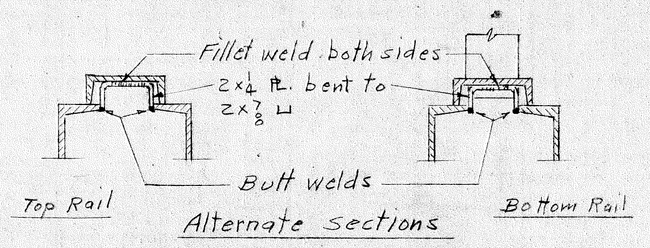
End Elevation



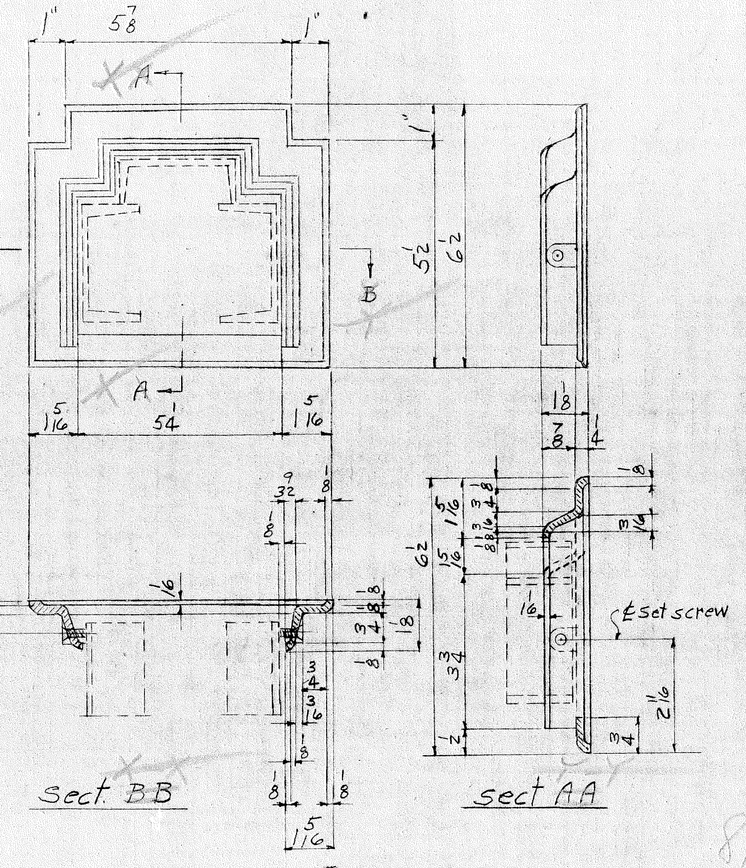
Sect "A-A"



Enlarged Sect "D-D"



Alternate sections



Sect. B-B Sect A-A

Detail of Railing Flanges

Material - Cast Brass

8/6/45

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F										
E										
D										
C										
B										
A										
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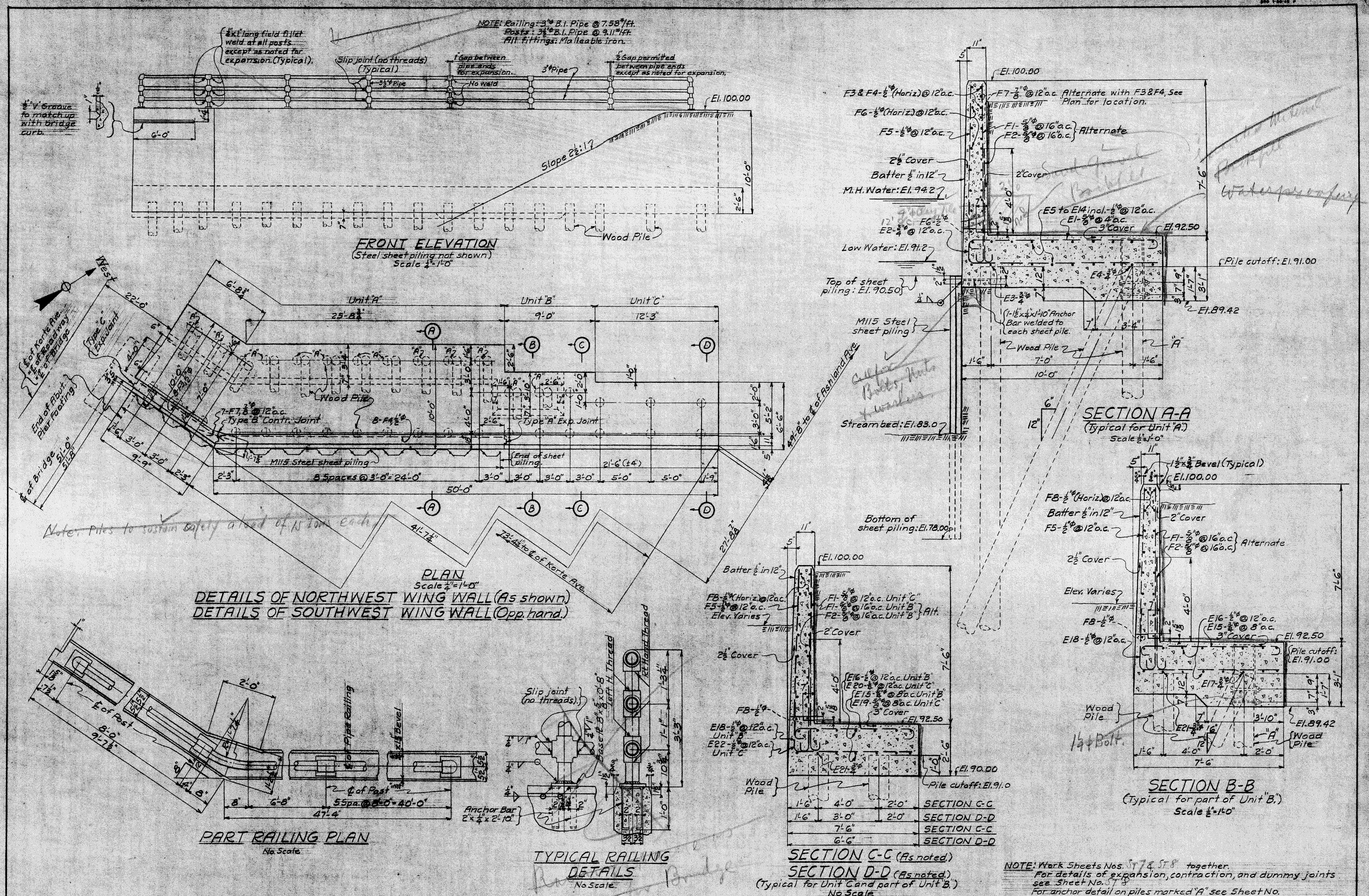
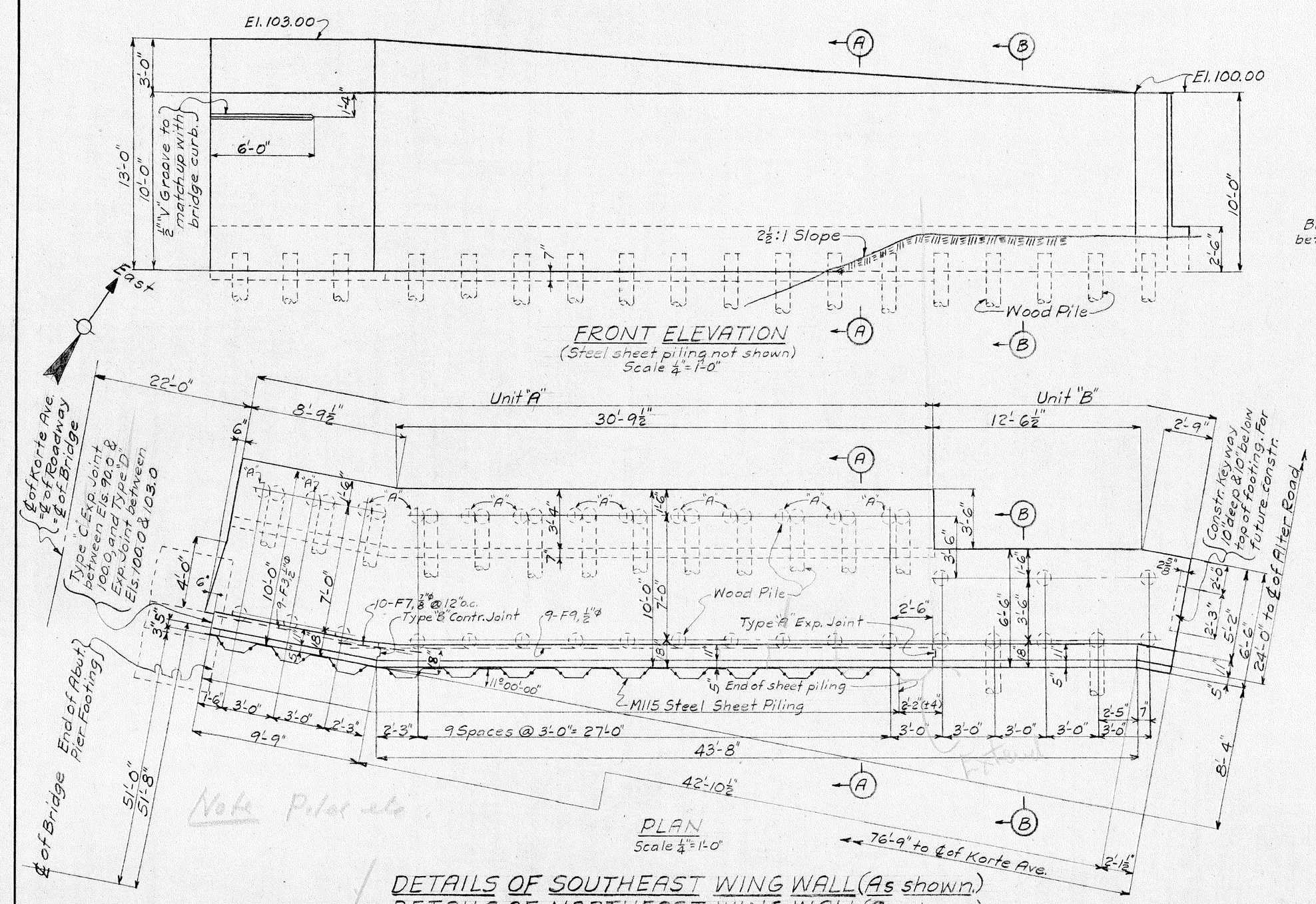
3-B/P
9/6/45

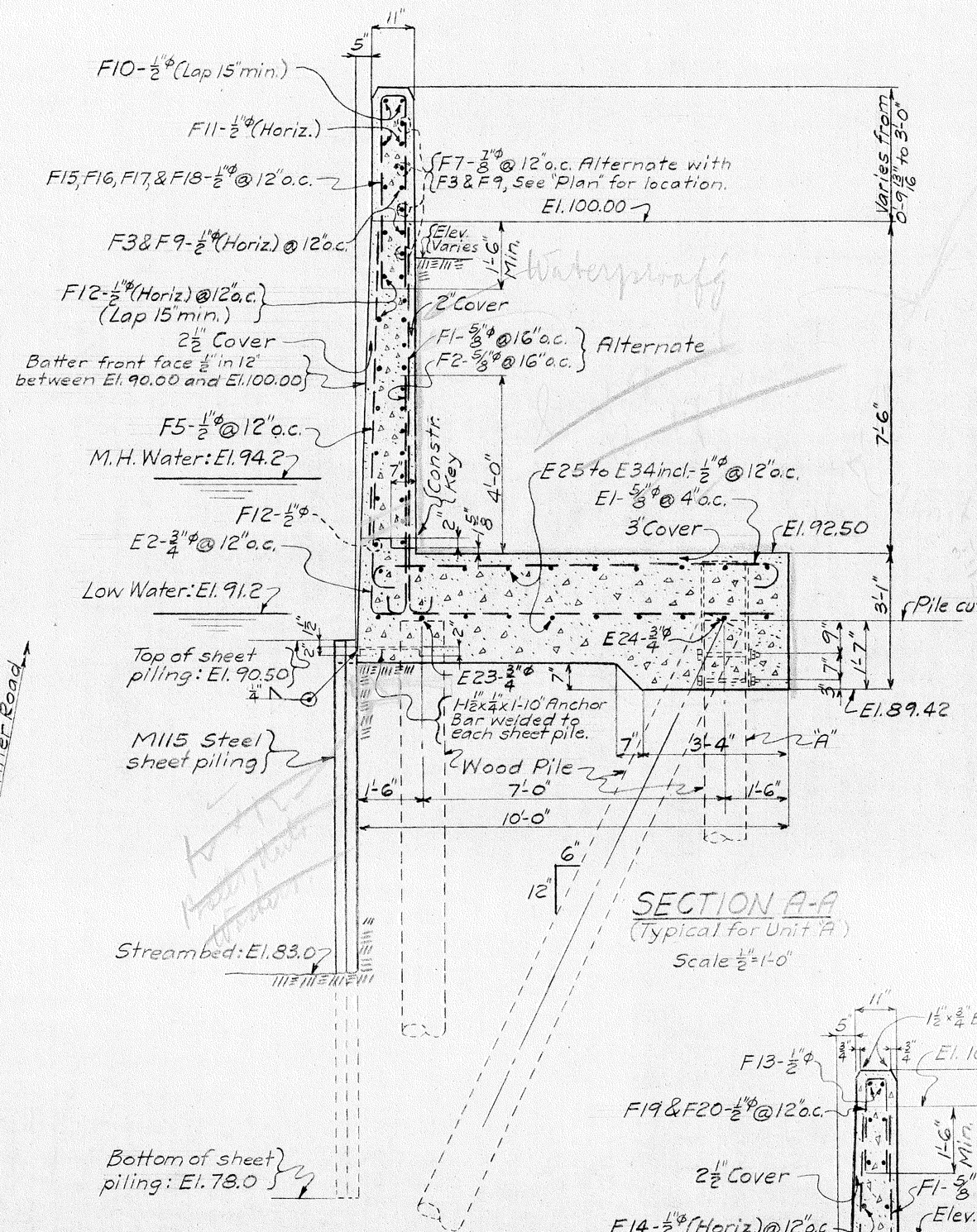

NOTE: Railing: 3" ϕ B.I. Pipe @ 7.58#/ft.
Posts: 3½" ϕ B.I. Pipe @ 9.11#/ft.
All fittings: Malleable iron.
1/4" x 1" long field fillet weld at all posts except as noted for expansion. (Typical).
Slip joint (no threads) (Typical)
1" Gap between pipe ends for expansion.
No weld
3" ϕ Pipe
1/2" Gap permitted between pipe ends except as noted for expansion.
3/8" V Groove to match up with bridge curb.
El. 100.00
Slope 2½:1
Wood Pile
FRONT ELEVATION
(Steel sheet piling not shown)
Scale 1/4"=1'-0"
West
Unit "A"
Unit "B"
Unit "C"
Type "C" Expansion
End of Abut. Pier Footing
Wood Pile
7-F7, 7/8" ϕ @ 12" o.c. Type "B" Contr. Joint
8-F4, 1/2" ϕ
Type "A" Exp. Joint
M115 Steel sheet piling
End of sheet piling
8 Spaces @ 3'-0" = 24'-0"
50'-0"
Note: Piles to sustain safety ahead of slope earth
PLAN
Scale 1/4"=1'-0"
DETAILS OF NORTHWEST WING WALL (As shown)
DETAILS OF SOUTHWEST WING WALL (Opp. hand.)
F3 & F4-1/2" ϕ (Horiz) @ 12" o.c.
F6-1/2" ϕ (Horiz) @ 12" o.c.
F5-1/2" ϕ @ 12" o.c.
F7-7/8" ϕ @ 12" o.c. Alternate with F3 & F4, See Plan for location.
F1-5/8" ϕ @ 16" o.c.
F2-5/8" ϕ @ 16" o.c.
Alternate
2½" Cover
Batter 1/2" in 12"
M.H. Water: El. 94.2
E5 to E14 incl.-1/2" ϕ @ 12" o.c.
E1-5/8" ϕ @ 4" o.c.
3" Cover
El. 92.50
Low Water: El. 91.2
Pile cutoff: El. 91.00
Top of sheet piling: El. 90.50
E3-3/4" ϕ
(1-1½" x ¼" x 1'-10" Anchor Bar welded to each sheet pile.
El. 89.42
M115 Steel sheet piling
Wood Pile
Streambed: El. 83.0
SECTION A-A
(Typical for Unit "A")
Scale 1/2"=1'-0"
1½" x ¾" Bevel (Typical)
F8-1/2" ϕ (Horiz) @ 12" o.c.
Elev. Varies
E16-1/2" ϕ @ 12" o.c.
E15-3/4" ϕ @ 8" o.c.
E18-1/2" ϕ @ 12" o.c.
E17-3/4" ϕ
E21-3/4" ϕ
1¼" ϕ Bolt.
SECTION B-B
(Typical for part of Unit "B.")
Scale 1/2"=1'-0"
Bottom of sheet piling: El. 78.00
Batter 1/2" in 12"
F8-1/2" ϕ (Horiz) @ 12" o.c.
F5-1/2" ϕ @ 12" o.c.
F1-5/8" ϕ @ 12" o.c. Unit "C"
F1-5/8" ϕ @ 16" o.c. Unit "B"
F2-5/8" ϕ @ 16" o.c. Unit "B"
Alt.
E16-1/2" ϕ @ 12" o.c. Unit "B"
E20-1/2" ϕ @ 12" o.c. Unit "C"
E15-3/4" ϕ @ 8" o.c. Unit "B"
E19-3/4" ϕ @ 8" o.c. Unit "C"
E18-1/2" ϕ @ 12" o.c. Unit "B"
E22-1/2" ϕ @ 12" o.c. Unit "C"
E21-3/4" ϕ
El. 90.00
Pile cutoff: El. 91.0
SECTION C-C (As noted.)
SECTION D-D (As noted.)
(Typical for Unit C and part of Unit "B.")
No Scale
SECTION C-C
SECTION D-D
SECTION C-C
SECTION D-D
PART RAILING PLAN
No Scale
Slip joint (no threads)
Anchor Bar 2" x ¼" x 2'-10"
TYPICAL RAILING DETAILS
No Scale
NOTE: Work Sheets Nos. ST7 & ST8 together.
For details of expansion, contraction, and dummy joints see Sheet No. ST8
For anchor detail on piles marked "A" see Sheet No.
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
DESIGNED BY H.O. Titus
DRAWN BY H.O. Titus
TRACED BY H.O. Titus
CHECKED BY
APPROVED:
ENGINEER OF
CITY ENGINEER
REFERENCE DRAWINGS
DESCRIPTION
REVISIONS
Preliminary For Office Use Only OK 10/23/45
JOB: AP67-1-A
SHEET ___ OF ___ SHEETS
JOB NO.
DRWG NO. CE693-X5
DATE

3-BP
9/6/45

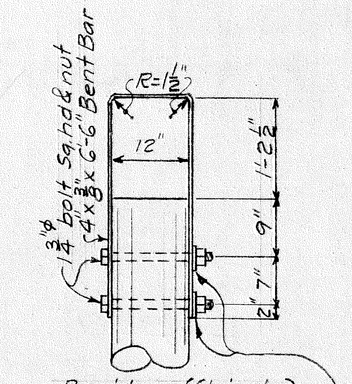
200 1-30-45 P



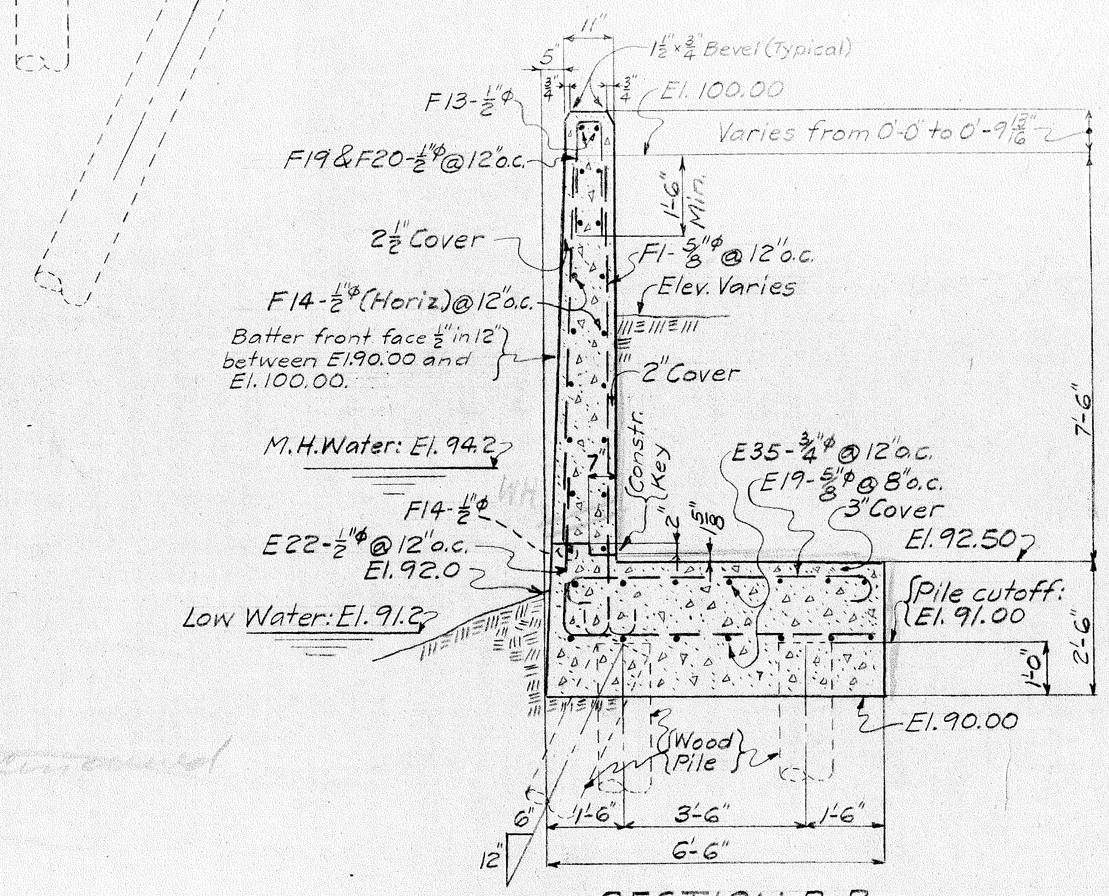
DETAILS OF SOUTHEAST WING WALL (As shown.)
DETAILS OF NORTHEAST WING WALL (Opp. hand.)



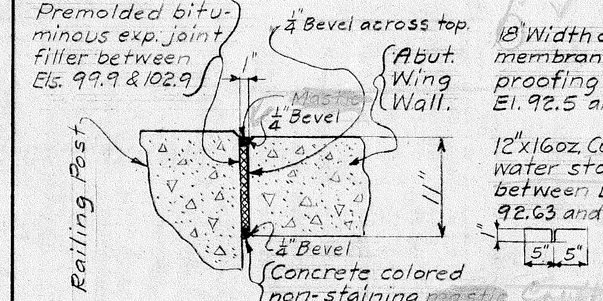
SECTION A-A
(Typical for Unit "A")
Scale ½"=1'-0"



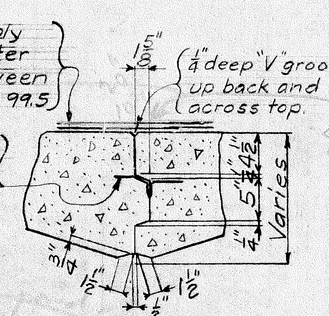
ANCHOR DETAIL FOR PILES MARKED "A"



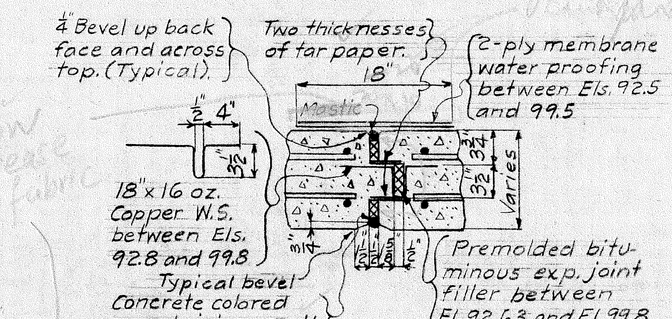
SECTION B-B
(Typical for Unit "B")
Scale ½"=1'-0"



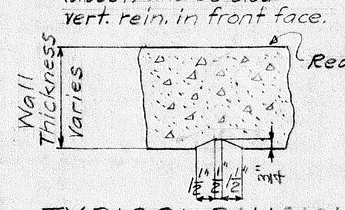
TYPE "D" EXP. JOINT
Scale 1"=1'-0"



TYPE "B" CONTRACTION JOINT
No Scale

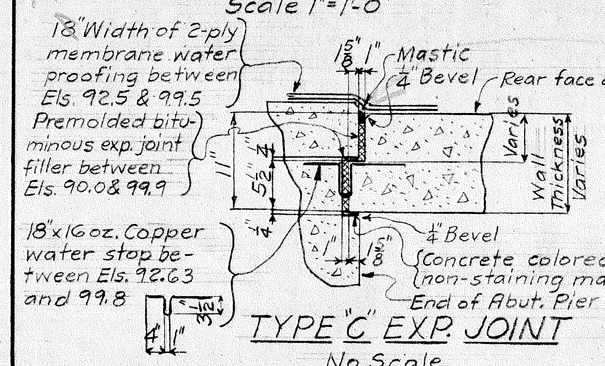


TYPE "A" EXP. JOINT
No Scale



TYPICAL DUMMY JOINT
No Scale

NOTE:
Dummy joints shall be spaced at 8'-0" ctrs. (about) and be clear of vert. rein. in front face.



TYPE "C" EXP. JOINT
No Scale

NOTE: Work sheets Nos. together.

G								
F								
E								
D								
C								
B								
A								
NOTED BY	DESCRIPTION	DR'N	CK'D	APV'D	DATE			
	REVISIONS							

REFERENCE DRAWINGS		
DESIGNED BY	H.O. Titus	APPROVED:
DRAWN BY	H.O. Titus	
TRACED BY	H.O. Titus	ENGINEER OF
CHECKED BY		CITY ENGINEER

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

Preliminary
For Office Use Only
Job: AP-6711-A
OK 10/23/45

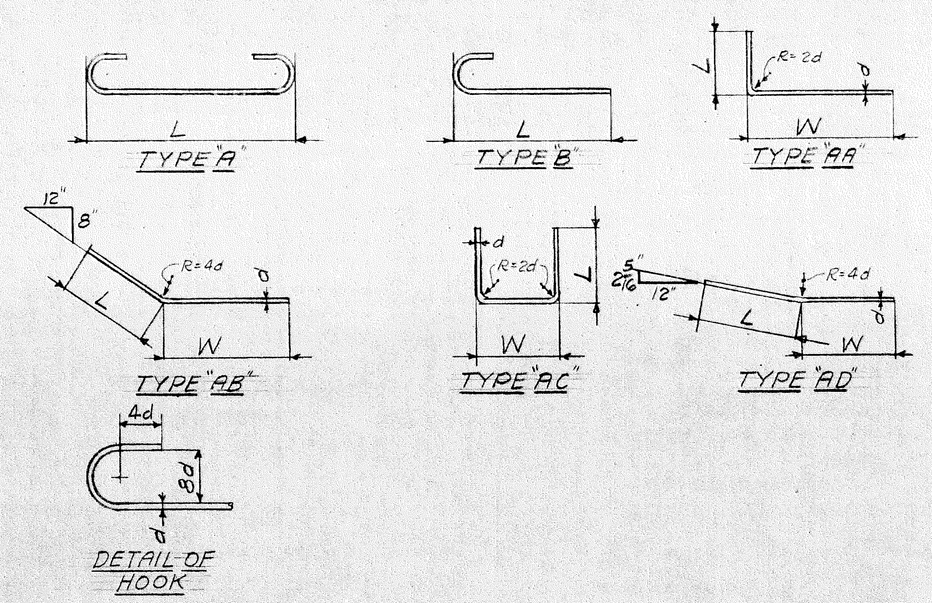
BOOK NO. | PAGE | SCALE

SHEET ___ OF ___ SHEETS
JOB No.
DRWG No. 6673-X6
DATE

3 BP 9/6/45

200 1-30-45 P

MARK	No.	SIZE	LENGTH	TYPE	DIMENSION L	DIMENSION W.	LOCATION
F1	192	5/8"φ	9'-6"	B	8'-9½"	—	Units "A" "B" & "C" West Abut. Pier Wing Wall
							do "A" & "B" East do do do do
F2	132	5/8"φ	6'-0"	B	5'-3½"	—	do "A" & "B" West do do do do
							Unit "A" East do do do do
F3	34	½"φ	10'-6"	Straight	—	—	do "A" West do do do do
							do "A" East do do do do
F4	16	½"φ	29'-6"	Straight	—	—	do "A" West do do do do
F5	238	½"φ	7'-0"	Straight	—	—	Units "A", "B", & "C" West do do do do
							do "A" & "B" East do do do do
F6	16	½"φ	38'-3"	AB	9'-6½"	28'-6½"	Unit "A" West do do do do
F7	34	7/8"φ	6'-0"	Straight	—	—	do "A" West do do do do
							do "A" East do do do do
F8	32	½"φ	21'-0"	Straight	—	—	Units "B" & "C" West do do do do
F9	18	½"φ	30'-0"	Straight	—	—	Unit "A" East do do do do
F10	8	½"φ	21'-6"	Straight	—	—	do "A" do do do do do
F11	4	½"φ	26'-0"	Straight	—	—	do "A" do do do do do
F12	36	½"φ	21'-3"	Straight	—	—	do "A" do do do do do
F13	4	½"φ	11'-9"	Straight	—	—	do "B" do do do do do
F14	32	½"φ	13'-9"	Straight	—	—	do "B" do do do do do
F15	38	½"φ	9'-0"	AC	4'-3½"	0'-6½"	do "A" do do do do do
F16	16	½"φ	8'-0"	AC	3'-9"	0'-6½"	do "A" do do do do do
F17	16	½"φ	7'-0"	AC	3'-2½"	0'-6½"	do "A" do do do do do
F18	18	½"φ	5'-9"	AC	2'-8"	0'-6½"	do "A" do do do do do
F19	16	½"φ	4'-9"	AC	2'-1½"	0'-6½"	do "B" do do do do do
F20	14	½"φ	3'-9"	AC	1'-6¾"	0'-6½"	do "B" do do do do do



MARK	No.	SIZE	LENGTH	TYPE	DIMENSION L	DIMENSION W	LOCATION
E1	480	5/8"φ	11'-0"	A	9'-6"	—	Unit "A" West Abut. Pier Wing Walls
							do "A" East do do do do
E2	162	¾"φ	12'-3"	AA	9'-6½"	2'-8½"	do "A" West do do do do
							do "A" East do do do do
E3	2	¾"φ	37'-6"	AB	9'-2"	28'-2"	do "A" West do do do do
E4	2	¾"φ	33'-3"	AB	7'-0½"	26'-0½"	do "A" do do do do do
E5	4	½"φ	38'-0"	AB	9'-5½"	28'-5½"	do "A" do do do do do
E6	2	½"φ	37'-6"	AB	9'-2"	28'-2"	do "A" do do do do do
E7	4	½"φ	36'-9"	AB	8'-10½"	27'-10½"	do "A" do do do do do
E8	4	½"φ	36'-3"	AB	8'-7"	27'-7"	do "A" do do do do do
E9	4	½"φ	35'-9"	AB	8'-3½"	27'-3½"	do "A" do do do do do
E10	4	½"φ	35'-0"	AB	8'-0"	27'-0"	do "A" do do do do do
E11	4	½"φ	34'-6"	AB	7'-8"	26'-8"	do "A" do do do do do
E12	4	½"φ	33'-9"	AB	7'-4"	26'-4"	do "A" do do do do do
E13	2	½"φ	33'-3"	AB	7'-0½"	26'-0½"	do "A" do do do do do
E14	4	½"φ	32'-6"	AB	6'-9"	25'-9"	do "A" do do do do do
E15	28	3/4"φ	8'-9"	A	7'-0"	—	do "B" do do do do do
E16	28	½"φ	10'-3"	Straight	—	—	do "B" do do do do do
E17	2	3/4"φ	10'-9"	Straight	—	—	do "B" do do do do do
E18	18	½"φ	9'-9"	AA	7'-0½"	2'-8½"	do "B" do do do do do
E19	80	5/8"φ	7'-6"	A	6'-0"	—	do "C" do do do do do
							do "B" East do do do do
E20	26	¾"φ	14'-0"	Straight	—	—	do "C" West do do do do
E21	2	¾"φ	23'-0"	Straight	—	—	Units "B" & "C" West Abut. Pier Wing Walls
E22	54	½"φ	8'-9"	AA	6'-0½"	2'-8½"	Unit "C" West Abut. Pier Wing Walls
							do "B" East do do do do
E23	2	¾"φ	40'-0"	AD	9'-4½"	30'-7½"	do "A" do do do do do
E24	2	¾"φ	39'-6"	AD	8'-8½"	30'-8½"	do "A" do do do do do
E25	4	½"φ	40'-0"	AD	9'-5½"	30'-6½"	do "A" do do do do do
E26	2	½"φ	40'-0"	AD	9'-4½"	30'-7½"	do "A" do do do do do
E27	4	½"φ	40'-0"	AD	9'-3¼"	30'-8¾"	do "A" do do do do do
E28	4	½"φ	40'-0"	AD	9'-2¼"	30'-9¾"	do "A" do do do do do
E29	4	½"φ	40'-0"	AD	9'-1"	30'-11"	do "A" do do do do do
E30	4	½"φ	40'-0"	AD	9'-0"	31'-0"	do "A" do do do do do
E31	4	½"φ	40'-0"	AD	8'-10¾"	30'-10¾"	do "A" do do do do do
E32	4	½"φ	39'-9"	AD	8'-9¾"	30'-9¾"	do "A" do do do do do
E33	2	½"φ	39'-6"	AD	8'-8½"	30'-8½"	do "A" do do do do do
E34	4	½"φ	39'-3"	AD	8'-7½"	30'-7½"	do "A" do do do do do
E35	28	3/4"φ	17'-6"	Straight	—	—	do "B" do do do do do

G							
F							
E							
D							
C							
B							
A							
NOTED BY	DESCRIPTION	DR'N	CK'D	AP'VD	DATE		

REVISIONS

REFERENCE DRAWINGS

DESIGNED BY H.O. Titus
DRAWN BY H.O. Titus
TRACED BY H.O. Titus
CHECKED BY

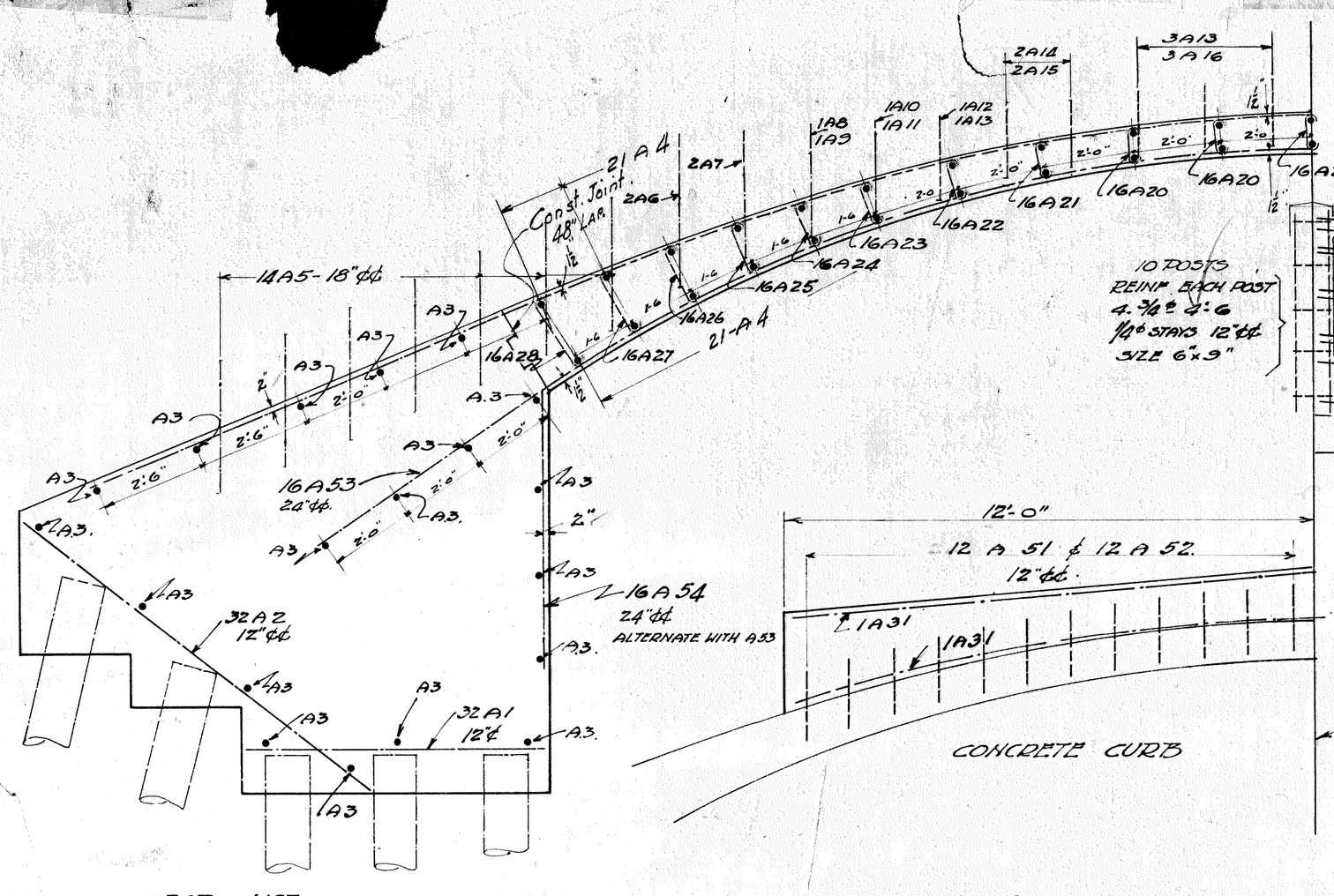
APPROVED:
ENGINEER OF
CITY ENGINEER

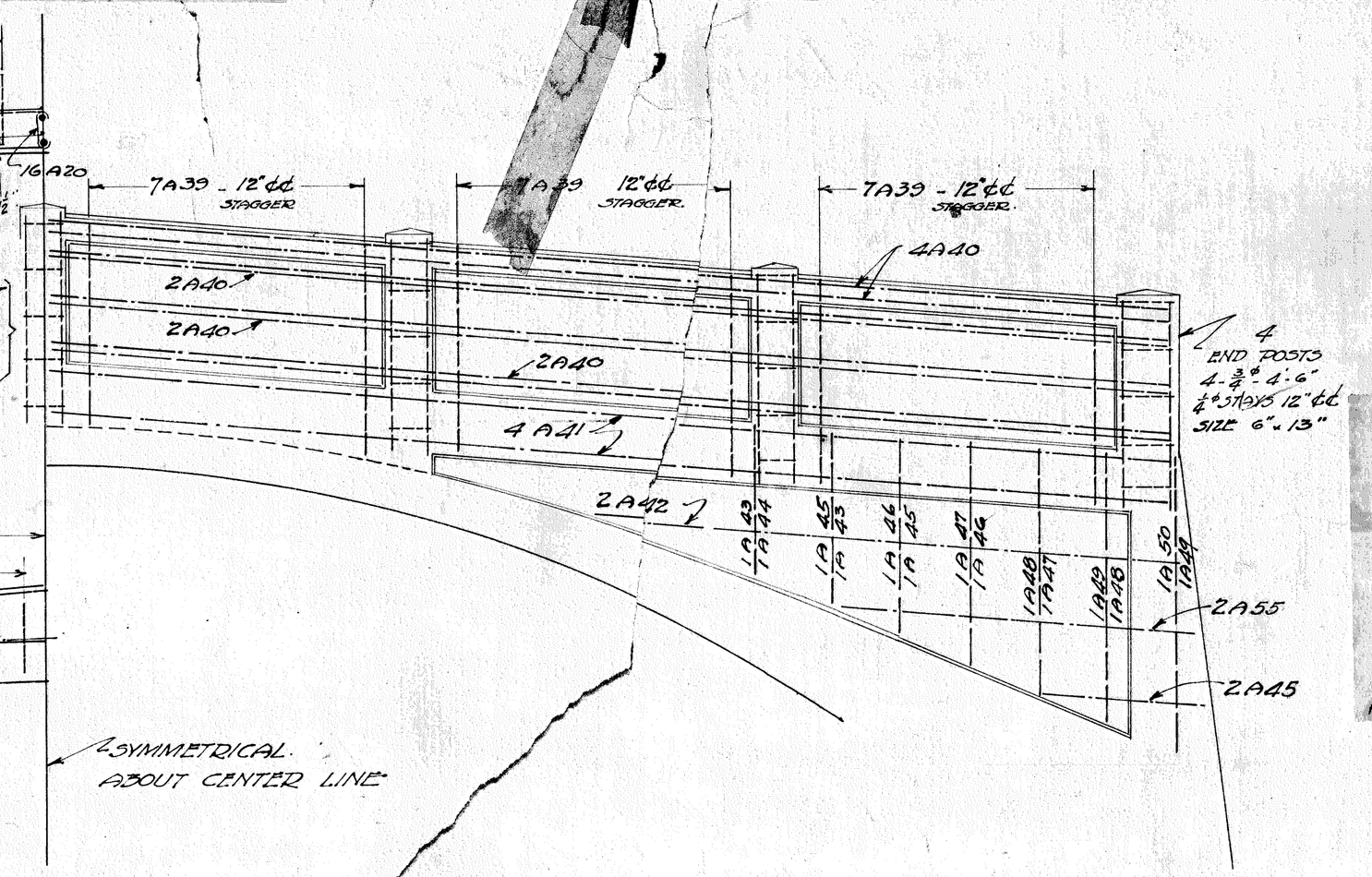
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

Reinforcing Details for Abut. & Pier Wing Walls
Preliminary For Office Use Only
Job: AB-67-1-A Freeway Tow

BOOK NO. PAGE SCALE

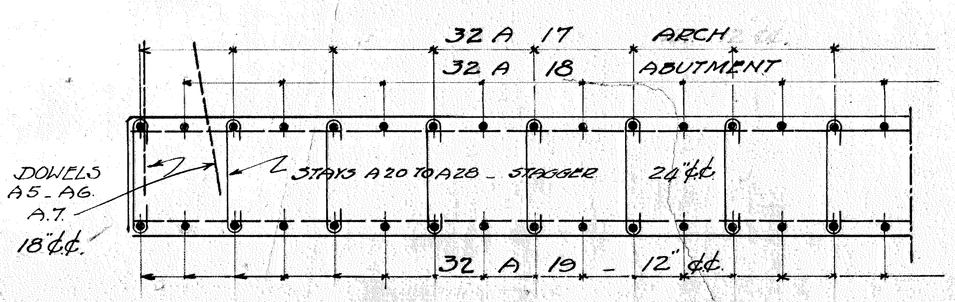
SHEET ___ OF ___ SHEETS
JOB No.
DRWG No. E693-X7
DATE



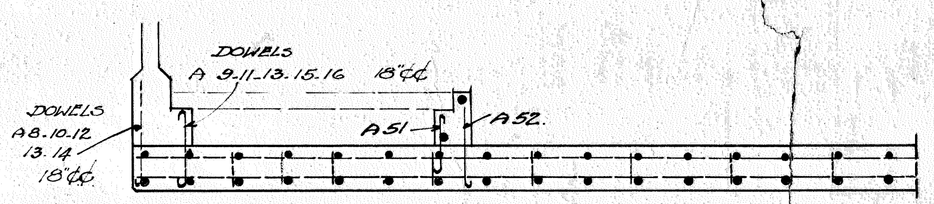


BAR LIST

NO.	SIZE	LENGTH	SHAPE							MK.
64	1"	6'-6"	–							A-1
64	1"	10'-0	–							2
38	3/4	31-0	–							3
47	5/8	31-0	–							4
116	3/4	3-0	–							5
8	3/4	4-4	–							6
8	3/4	3-10	–							7
4	3/4	3-9			3'-3	OUT	TO	OUT		8
4	3/4	3-3			2-9	"	"	"		9
4	3/4	3-6			3-0	"	"	"		10
4	3/4	3-3			2-3	"	"	"		11
4	3/4	3-0			2-6	"	"	"		12
16	3/4	3'-0"			2-0	"	"	"		13
8	3/4	2-9			2-3	"	"	"		14
8	3/4	2-8			1-8	"	"	"		15
12	3/4	2-3			1-3	"	"	"		16
32	1	37-0								17
32	1	14-0								18
32	1	32-0								19
80	3/8	1-1			6 3/4	OUT	TO	OUT		20
37	3/8	1-1 1/2			7 1/4	"	"	"		21
37	3/8	1-2			8 1/4	"	"	"		22
37	3/8	1-3 1/2			9 1/2	"	"	"		23
37	3/8	1-4 1/2			10 1/4	"	"	"		24
37	3/8	1-6 1/2			1'-0"	"	"	"		25
37	3/8	1-8 1/2			1-2 1/4	"	"	"		26
37	3/8	1-1"			1-4 1/2	"	"	"		27
37	3/8	2-2"			1-8	"	"	"		28
4	1/2	6-0	–							29
4	1/2	7-0	–							30
4	1/2	24-0	–							31
8	1/2	9-0	–							32
6	3/4	14-6	–							33
8	3/4	8-0	–							34
12	3/4	8'-0"		–	–	4-0	4'-0	–	48	35
2	3/4	6-0		–	–	4-0	2-0	–	48	36
12	3/4	4-0	–							37
12	3/4	1-6	–							38
84	3/8	4-6	–							39
24	3/8	25-6"	–							40
16	1/2	25-6"	–							41
8	1/2	12'-6	–							42
8	1/2	3-3	–							43
4	1/2	2-9	–							44
16	1/2	3-0	–							45
8	1/2	4-3	–							46



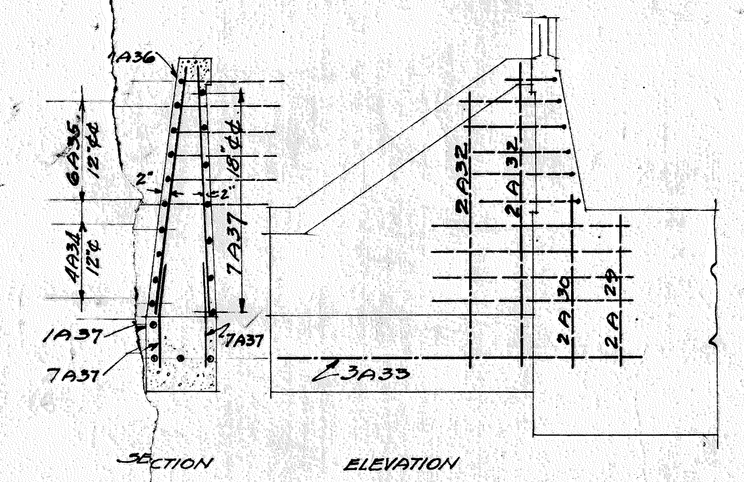
SECTION AT SPRINGING



SECTION AT CROWN

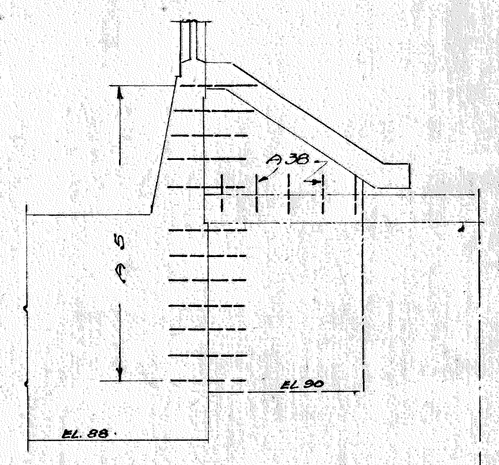
BAR LIST

NO.	SIZE	LENGTH	SHAPE							MK.
8	1/2	4-9	–							47
8	1/2	5-3	–							48
8	1/2	6-0	–							49
4	1/2	6-6	–							50
48	5/8	2-0				1'-6"	OUT	TO	OUT	51
48	5/8	2-0				1-9	"	"	"	52
37	1"	10'-6								53
37	1"	10'-6				6'-6	4'-0"	–	3'-0	54
8	1/2	8-0	–							55

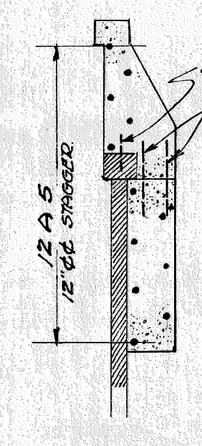


SECTION ELEVATION

WING WALLS - WEST ABUTMENT
1/4" SCALE



ELEVATION



SECTION

WING WALLS - EAST ABUTMENT
1/4" SCALE

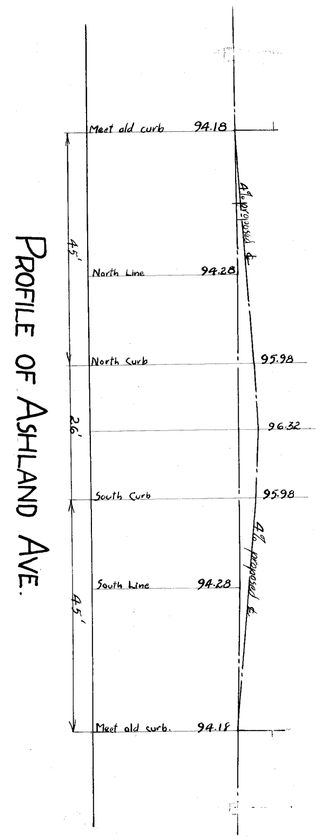
REVISIONS			
DATE	LOCATION	CHARACTER	BY

GABRIEL STEEL CO.
DETROIT, MICHIGAN

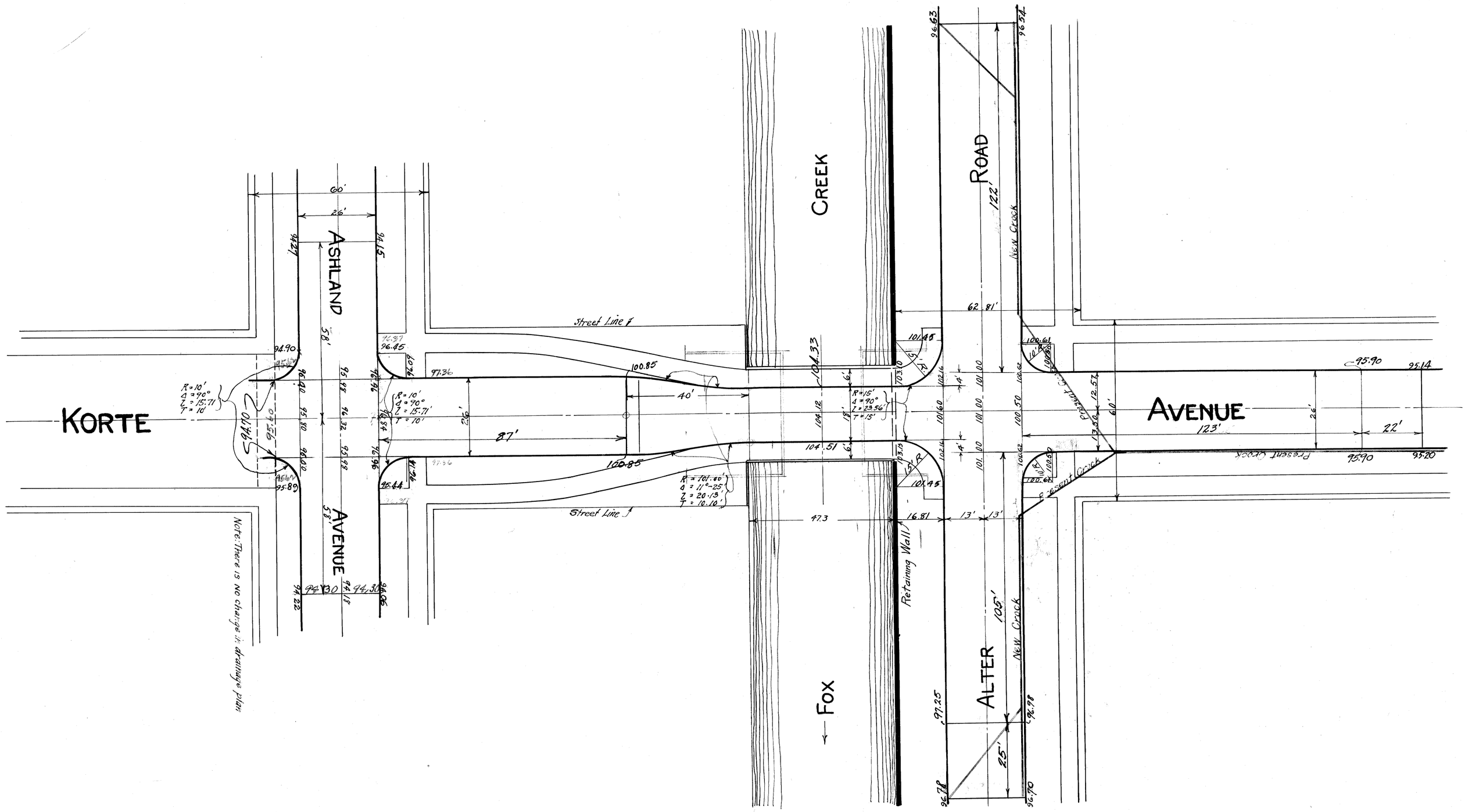
STRUCTURE BRIDGE
LOCATION KORTE AVE & FOX CR
TITLE
CONTRACTOR GEO. R. COOKE
ARCHITECT CITY ENGINEER.
DRAWN BY H. E. K.
CHECKED BY
DATE MAY 8 1922
JOB NO.
SHEET

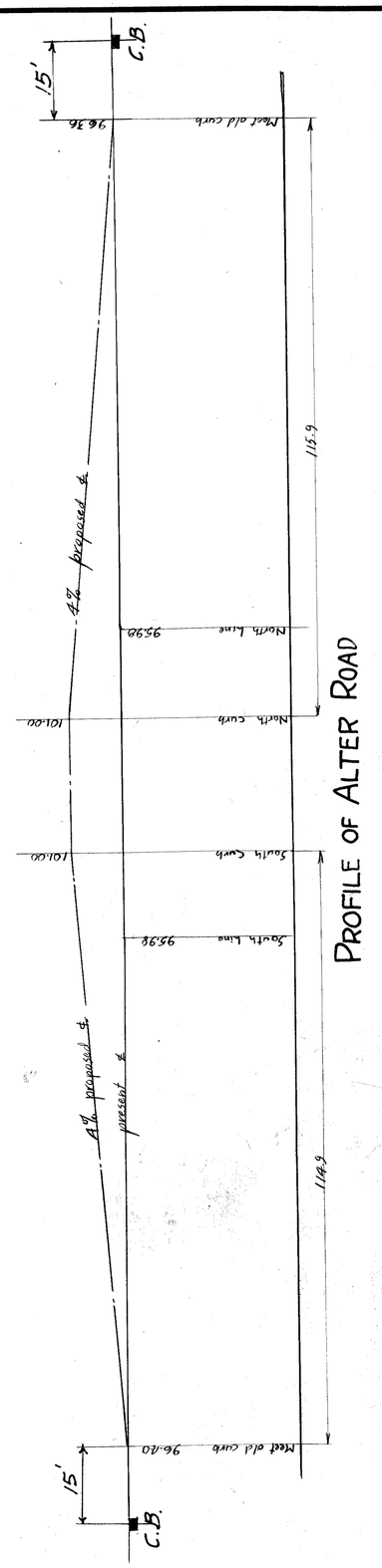
File # 349

J.B.P.
9-6-45

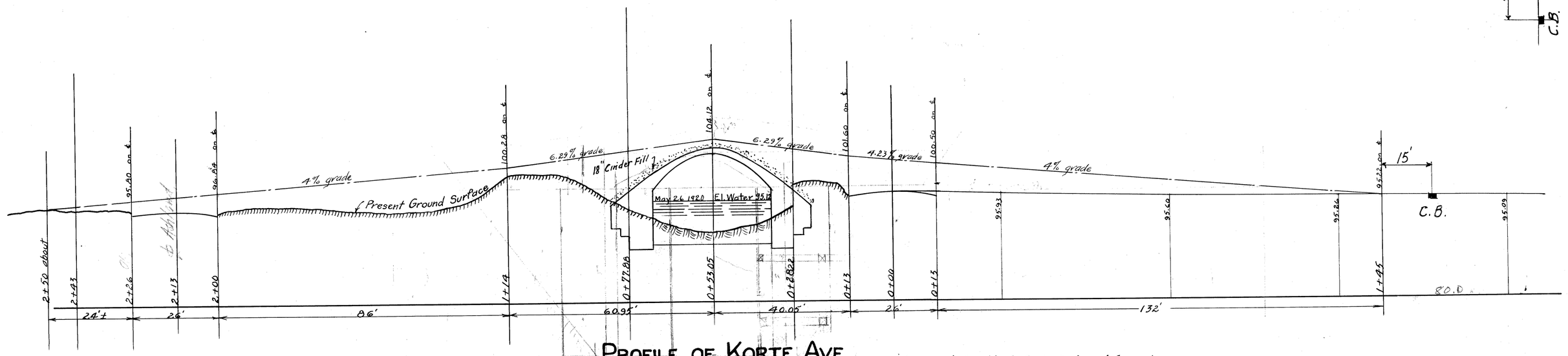


PROFILE OF ASHLAND AVE.





PROFILE OF ALTER ROAD



PROFILE OF KORTE AVE.

Approximate Quantities for Paving Bridge and Approaches:

Earth Fill	3450 c.y.
Cinder Fill	110 " "
Curbing to be taken up, straight	328 l.ft.
circles (10' Rad)	314 " "
Curbing to be laid : straight	1014 " "
circles 10' Rad	94.26 " "
15' "	47.12 " "
101' "	80.52 " "
Sidewalks 6' wide	6290 sq.ft.
Roadway Paving	2093 sq. yds.
New Drainage Crock (same as present, probably 12")	270 l.ft.
Remove 3 catch basins. Install 4 catch basins.	

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
DIVISION OF GRADE SEPARATION & BRIDGES
MAP & PROFILE – KORTE AVE.

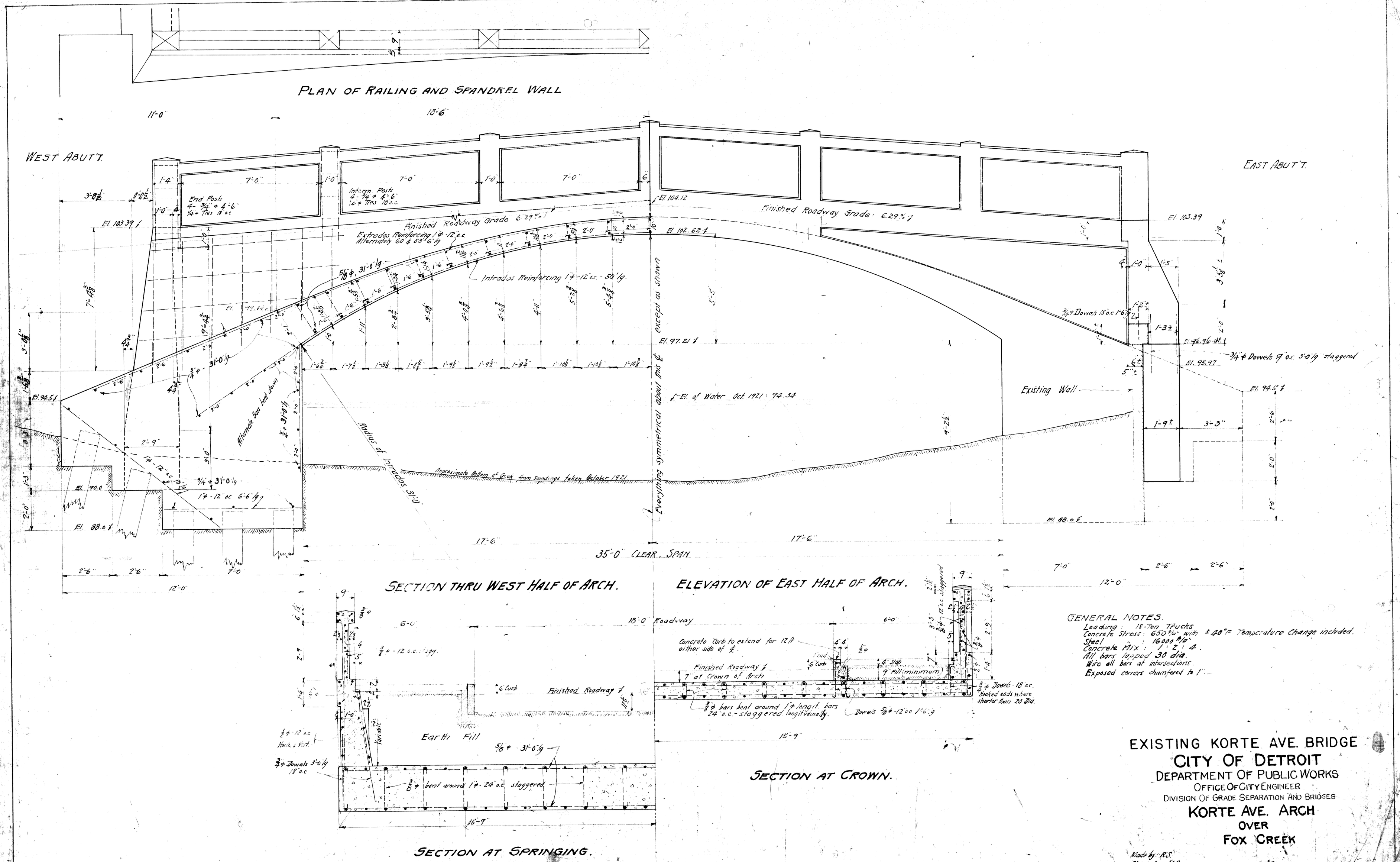
SCALE 1" = 20' HOR.
1" = 10' VER.

FEBRUARY, 1922.

BK E-334

Revised Sep. 28th 1922.
" Oct. 3rd '24
" July 2nd '24

BW 249-1a



GENERAL NOTES.

Loading: 18-Ton Trucks
Concrete Stress: 650 # to with ± 40° F Temperature Change included.
Steel: 16000 #/□"
Concrete Mix: 1 : 2 : 4.
All bars lapped 30 dia.
Wire all bars at intersections
Exposed corners chamfered to 1"

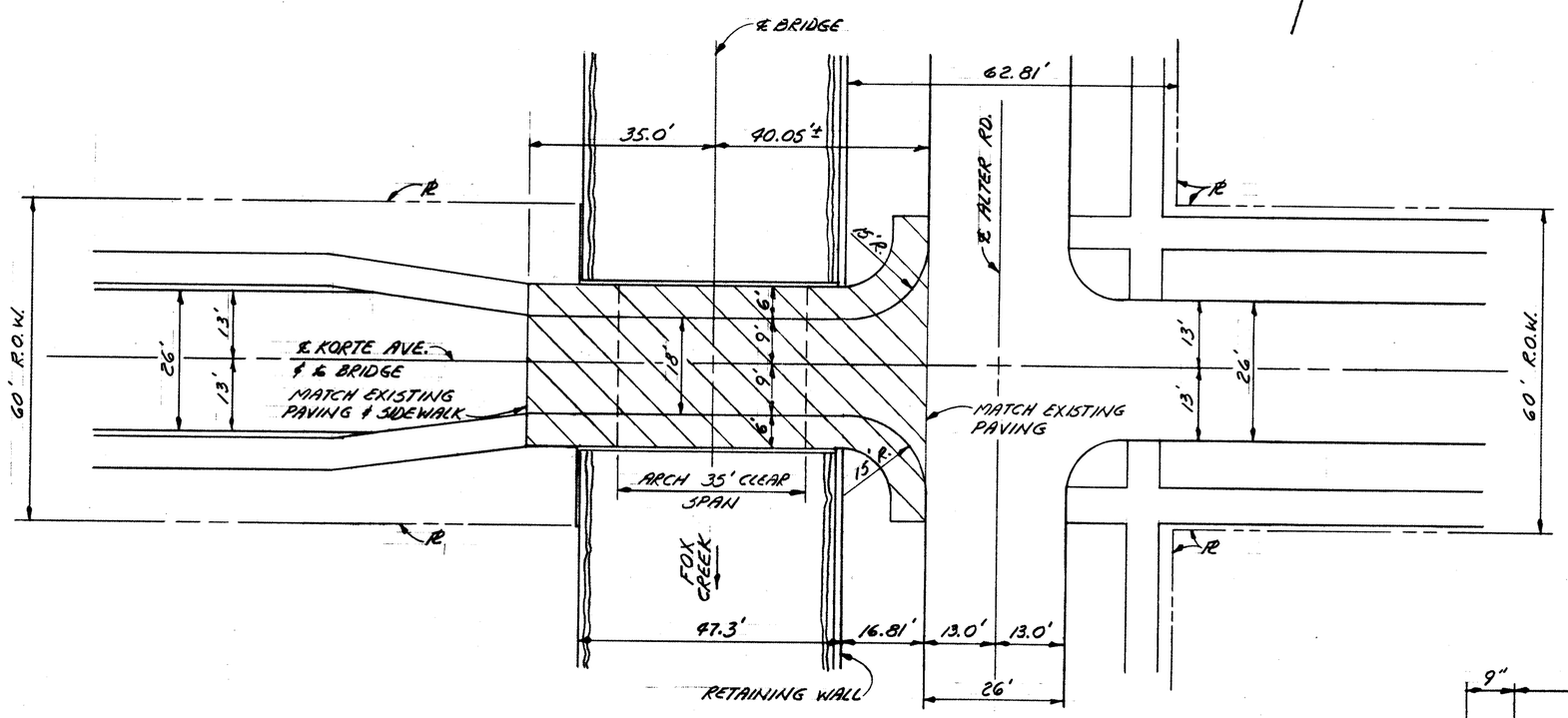
EXISTING KORTE AVE. BRIDGE
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
OFFICE OF CITY ENGINEER
DIVISION OF GRADE SEPARATION AND BRIDGES
KORTE AVE. ARCH OVER FOX CREEK

Made by: R.S.
Chkd by: J.L.B.

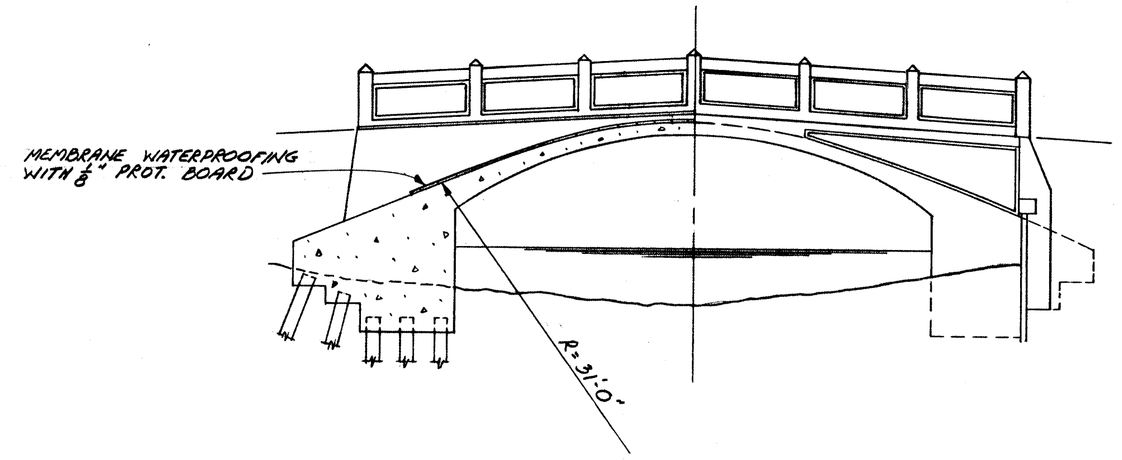
Scale 1/2" = 1'-0"

SHEET 2 X OF 2

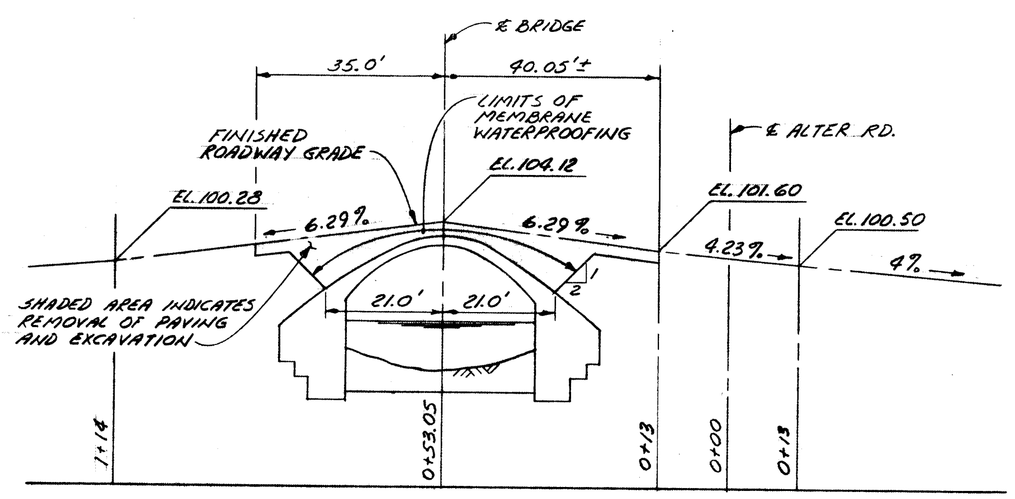
BW 249-2



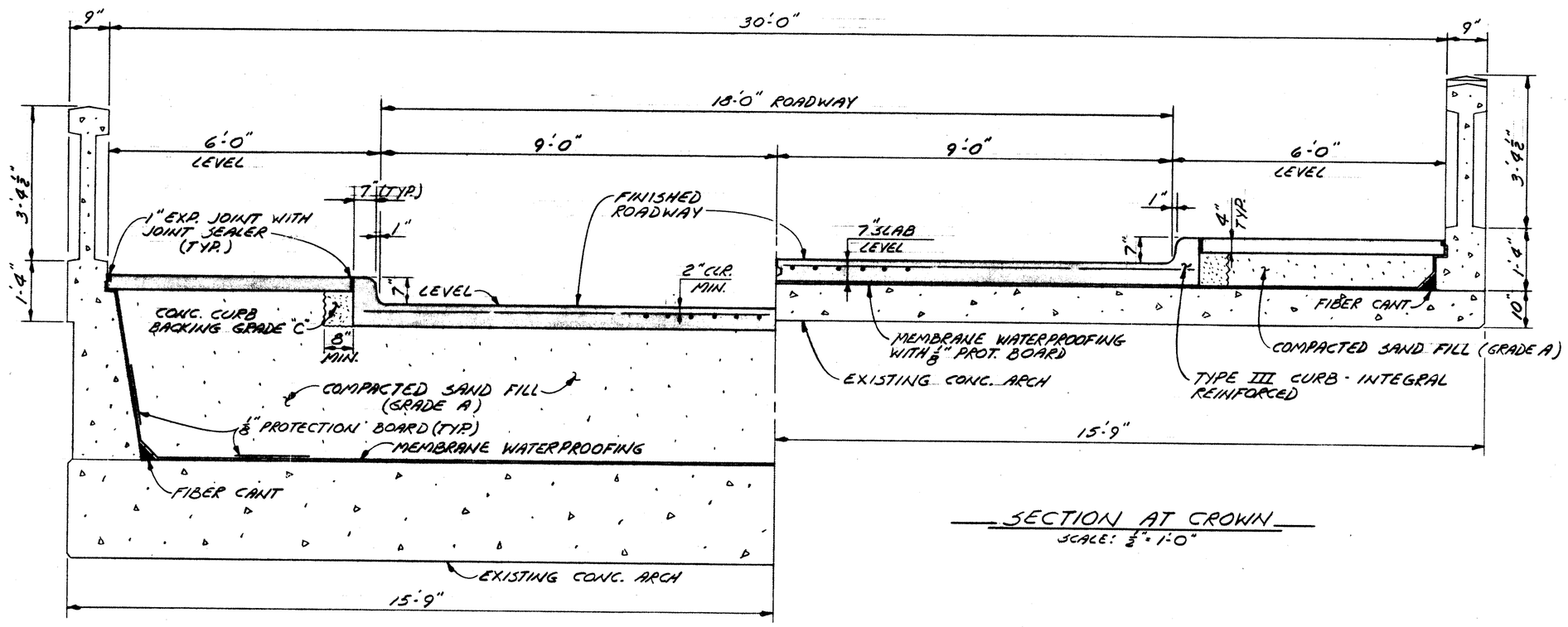
PLAN
SCALE: 1" = 20'



SECTION AT ℄ ARCH — ELEVATION EAST END
SCALE: ⅛" = 1'-0"



PROFILE OF KORTE AVE.
SCALE: HOR: 1" = 20'
VER: 1" = 10'



SECTION AT SPRINGING
SCALE: ½" = 1'-0"

SECTION AT CROWN
SCALE: ½" = 1'-0"

REVISIONS

	DR'N	CK'D	AP'VD	DATE
A				
B				
C				
D				
E				
F				

DESIGNED BY

DRAWN BY A.G.

CHECKED BY

APPROVED:

STRUCTURAL ENGINEER

HEAD CIVIL ENGINEER

CITY OF DETROIT

ENVIRONMENTAL PROTECTION AND MAINTENANCE DEPARTMENT

CITY ENGINEERING DIVISION

FOR EP&MD

KORTE AVE OVER FOX CREEK DECK & SIDEWALK REPLACEMENT

BW 241

A.O. 80-22-03

CONTRACT NO. PW-6616

DRAWING NO. 1

SHEET 1 OF 1