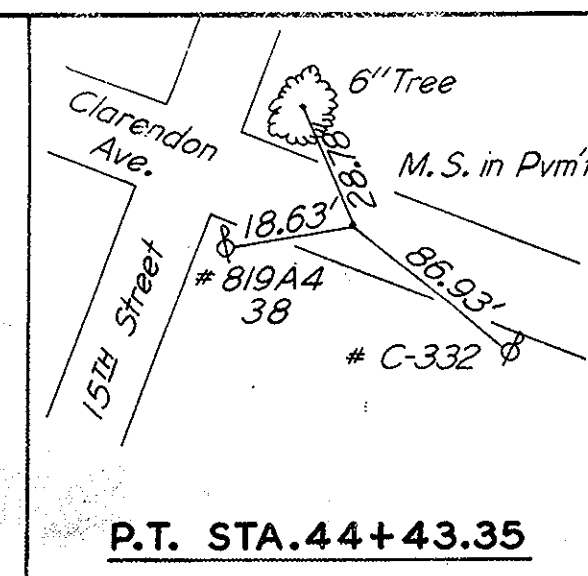


FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

340
433

STARK COUNTY
STA-30-12.47
In Canton



CURVE DATA U.S.R. 30

T.S. STA. 898+35.27
S.C. STA. 903+35.27
P.I. STA. 909+98.83
C.S. STA. 916+01.98
S.T. STA. 921+01.98
Dc = 2'-00"
Δ = 35°-20'-03" Rt.
Ls = 500
Θs = 5'-00"
Rc = 2864.79'
Lc = 1266.71'

B.M. Elev. 1056.19 - Mine Spike in power pole #819A4 at S.W. corner of 15th Street S.W. and Bedford Avenue

PROPOSED STRUCTURE

TYPE: Continuous steel beams with reinforced concrete deck and substructure.
SPANS: 43.0-61.50-67.75-57.25
ROADWAY: 28'-0" f f 2'-0" safety curb (Lt.) and 6'-0" sidewalk (Rt.)
LIVE LOAD: HS-20-44
SKEW: 0°
SURFACE COURSE: 2 1/2" Asphalt concrete
APPROACH SLABS: AS-1-72 modified (25' long)
ALIGNMENT: Tangent and Curve 10°-00' Rt.

Clarendon Ave. 1985 A.D.T. = 2,600
U.S.R. 30 1985 A.D.T. = 43,722

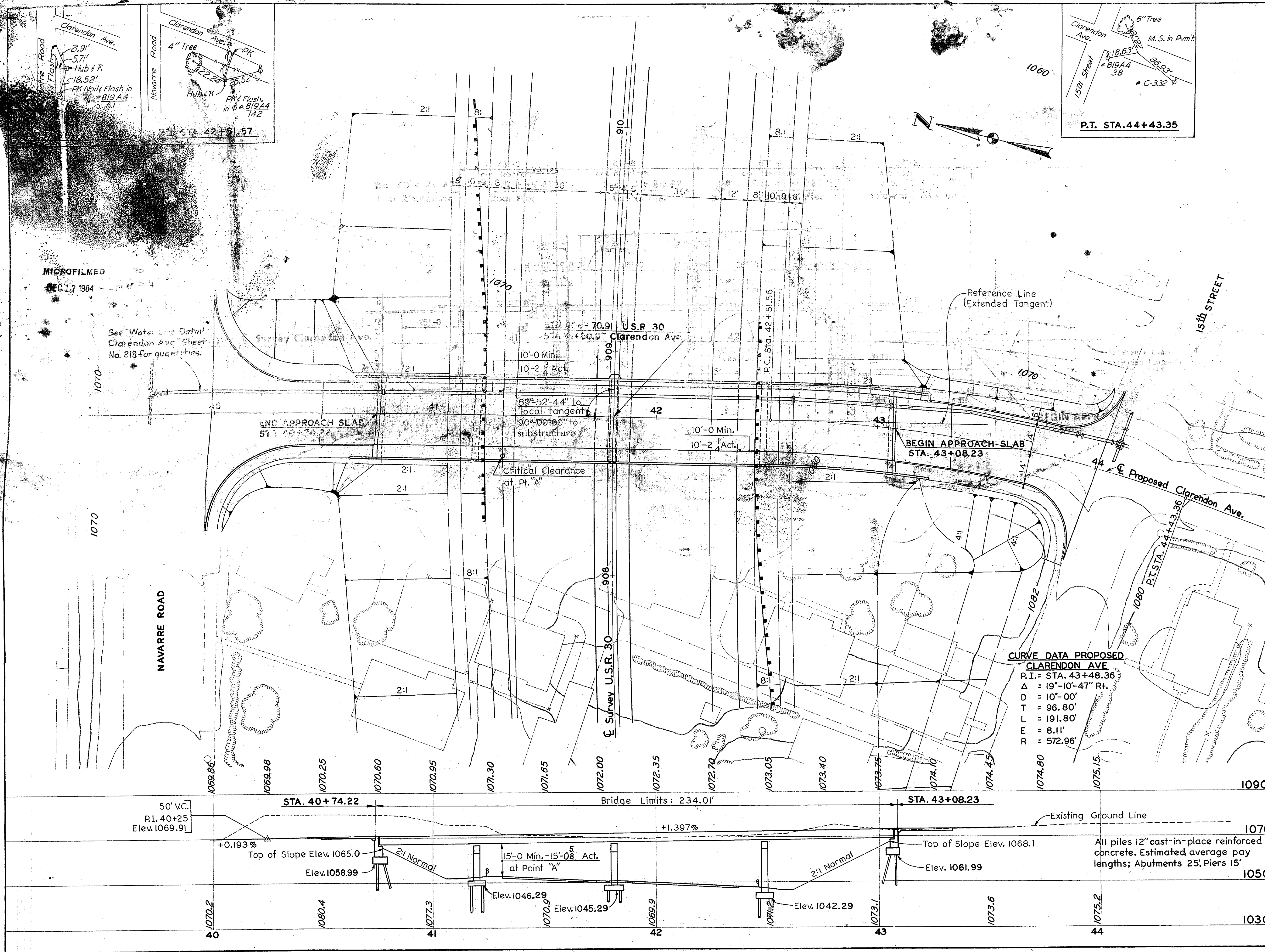
Earthwork limits shown are schematic. Actual slopes shall conform to actual plan cross-sections.

W.E.Q. BRIDGE 4
SHEET 1 OF 13

W.E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS - NEW PHILADELPHIA, OHIO

SITE PLAN
BRIDGE NO. STA-30-1392
U.S.R. 30 under Clarendon Ave.

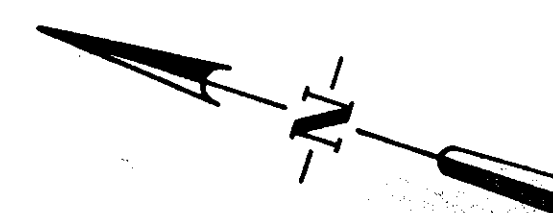
STARK COUNTY		STA. 908+70.91	
PRESENT TOPOGRAPHY		PROPOSED WORK	
SURVEYED	DRAWN	DESIGNED	DRAWN
Kucera	Rg	Rg	Rg
		CHECKED	REVIEWED
		wdc	DLM



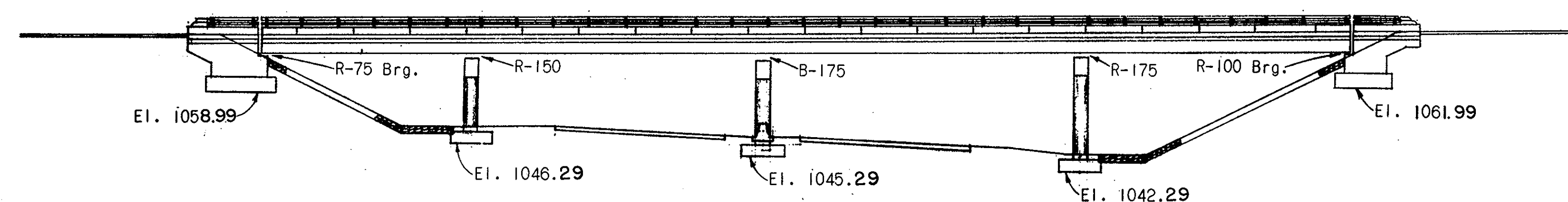
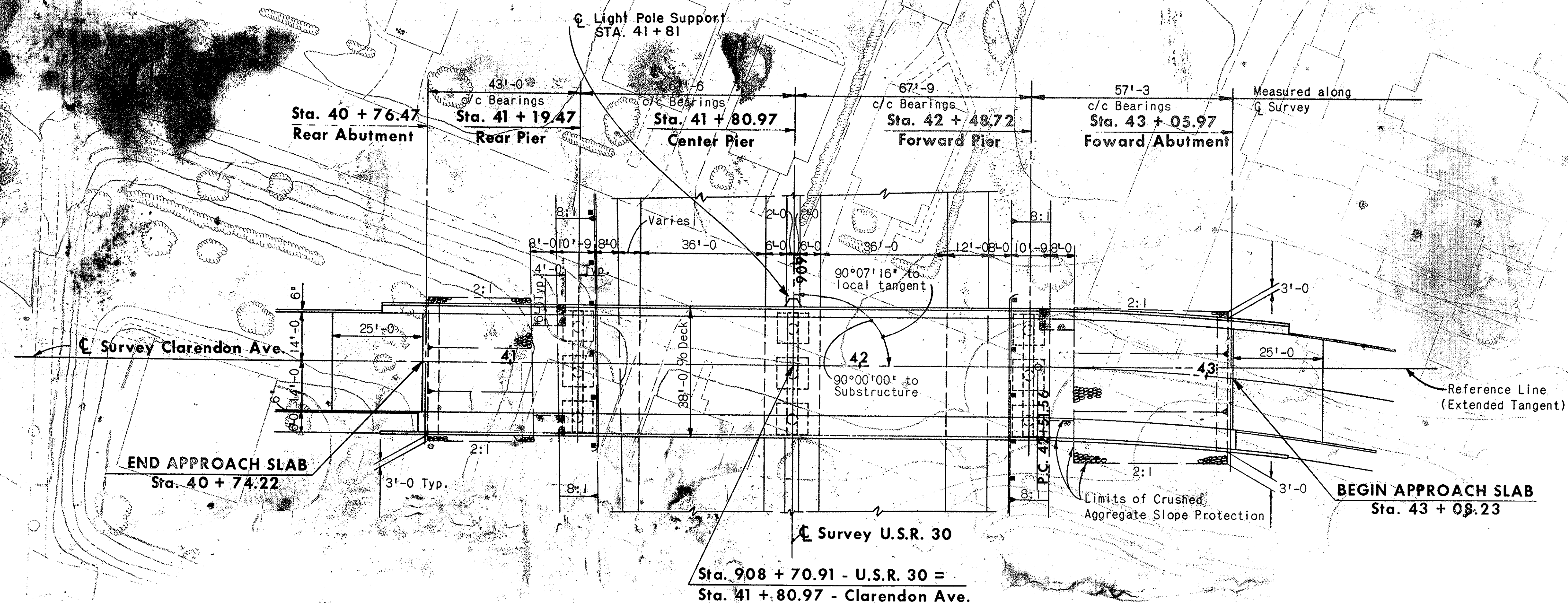
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

341
135

STA-30-12.47



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DEC 17 1984



W.E.Q. BRIDGE 4
SHEET NO. 2 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

GENERAL PLAN & ELEVATION

BRIDGE NO. STA-30-1392

U.S.R. 30 under CLARENDON AVE.

STARK COUNTY STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wdb	DLM	3/68	

MICROFILMED
DEC 17 1984

FIELD NO. DIVISION	STATE	PROJECT	
2	OHIO		

342
435

STA-30-12.47

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Abuts	Piers	Super	Gen'l.
	60.50	Cu.Yds	Asphalt Concrete AC-20			40	50
398		Cu.Yds	Excavation	251	147		
		Sum.	Test Pile				Lump
			12" Cast-in-place Reinforced Concrete Piles	650	840		
105997			Reinforcing Steel	10500	21794	73703	
510			Class C Concrete - Super Structure (See proposal note)			312	
511			Class C Concrete - Piers above Footings		86		
512		Yds.	Class C Concrete - Abutments above Footings	82			
513		Yds.	Class C Concrete - Footings	71	87		
514	191,000	Lbs.	Structural Steel			191,000	
515	191,000	Lbs.	Field Painting of Structural Steel			191,000	
516	468.02	Lin. Ft.	Subdrainage for wearing course (As per plan)			468.02	
517	468.02	Lin. Ft.	Railing (BR-2-67)	63.98		468.00	
518	35	Cu.Yds.	Porous Backfill	35			
519	13	Each	Scupper including supports			13	
520	64	Lin. Ft.	6" Non-Perforated Helical C.M.P. including specials, 707.01	64			
521	85	Lin. Ft.	6" Perforated Helical C.M.P., 707.01	85			
601	414	Sq.Yds.	Crushed Aggregate Slope Protection	414			
625			See sheet 226 B for Lighting Summary				
808	312	Unit	Chemical admixture for concrete, Type A, B or D			312	
	10	Cu. Yd.	Asphaltic Protective Course (See proposal note)			10	
Special	730	Sq. Yd.	Membrane waterproofing (Sheet type) (See proposal note)			730	

hot applied liquid

ELEVATIONS

TOP OF REINFORCED CONCRETE SLAB

STATION	PROFILE GRADE-2'	LEFT CURB	RIGHT CURB
40+76.47	1070.42	1070.20	1070.20
41+00	1070.75	1070.54	1070.54
41+19.47	1071.02	1070.80	1070.80
41+25	1071.10	1070.88	1070.88
41+50	1071.45	1071.26	1071.26
41+75	1071.80	1071.58	1071.58
41+80.97	1071.88	1071.68	1071.68
42+00	1072.15	1071.95	1071.95
42+25	1072.50	1072.31	1072.31
42+48.72	1072.83	1072.61	1072.61
42+75	1073.19	1073.01	1073.01
43+04.67	1073.61	1073.39	---
43+07.34	1073.65	---	1073.43

GENERAL NOTES

REFERENCE shall be made to:

Standard Drawings:

Supplemental Specifications:

808, dated 1-1-71

836 dated 3-12-75

BR-2-67, revised 10-15-71

BB-1-58: Revised 2-2-59

SD-1-69, dated 6-12-69

Std. Const. Drwg. HL, 4,5,7; revised 9-6-73

DESIGN SPECIFICATIONS: This structure conforms to "Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1960, including the 1960 "Supplement" to these specifications.

DESIGN INFORMATION

Unseen bodies

Concrete Cast No. 12.

[illegible]

6. Cultural Change

Reinforcing Steel

HS-20-44

Unit stress, 1333 p.s.i. for substructure

Unit stress, 1200 p.s.i. for superstructure

ASTM A36 - Unit stress, 20,000 p.s.i.

ASTM A615, A616 or A617

Unit stress 20,000 p.s.i.

Spiral Reinforcement shall be plain bars

ASTM A82 or A615

PILES: shall be driven to a minimum bearing capacity of 30 tons per pile for both the abutments and piers.

STEEL ERECTION: During the erection of end dams and crossframes care shall be taken to insure that stringers, bearing parts and bridge seats remain in bearing contact

W.E.Q. BRIDGE 4
SHEET NO. 3 OF 13

W.E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

**GENERAL NOTES, ESTIMATED
QUANTITIES & SLAB ELEVATIONS**

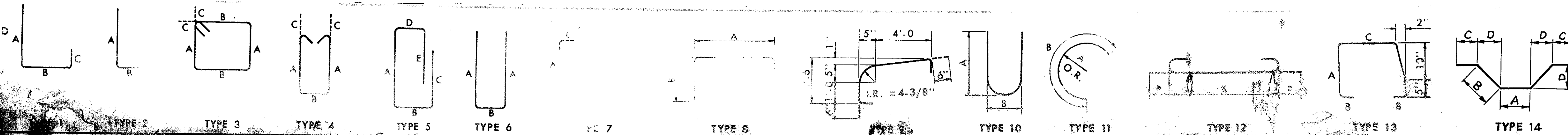
BRIDGE NO. STA-30-1392

BRIDGE NO. 31A-30-1392
U.S.R. 30 under CLARENDON AVE.

STARK COUNTY STA: 908+70.91

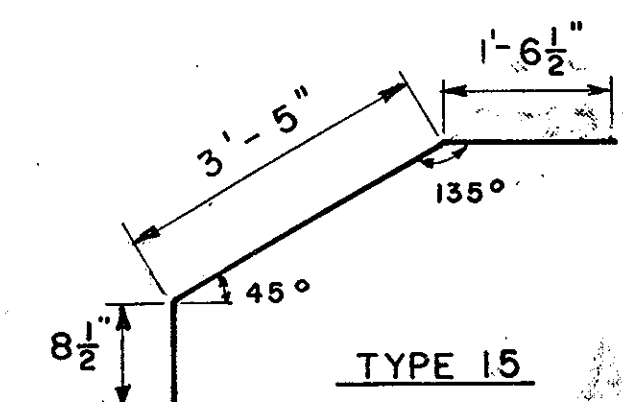
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	PMZ		wda	DLM	3/68	92975

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DEC 17 1984



FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

STA-30-12.47



NOTES

Refer to CMS Sections 106.03, 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structures by the additional steel spliced in accordance with 509.08.

MARK	TYPE	E	NO.	LENGTH	WEIGHT
A501	Str.		56	15'-4"	4304
A502	Str.		16	14'-1"	338
A503	Str.		52	14'-1"	1100
A504	Str.		22	17'-2"	567
A505	Str.		4	5'-6"	33
A506	Str.		52	6'-11"	1375
A507	Str.		52	4'-5"	240
A508	Str.		17	3'-4"	662
A509	Str.		17	5'-10"	671
A510	Str.		8	15'-5"	129
A511	Str.		52	6'-5"	345
A512	Str.		24	15'-8"	69
A513	Str.		24	9'-8"	242
A514	Str.		8	7'-8"	64
A515	Str.		14	14'-8"	68
A516	Str.		2	3'-9"	8
A517	Str.		2	3'-2"	7
A518	Str.		6	6'-5"	40
A519	Str.		7	10'-1"	74
A520	Str.		1	8'-6"	9
A521	Str.		1	6'-7"	7
A522	Str.		3	6'-1"	19
A523	Str.		12	6'-0"	134
A524	Str.		13	1'-3"	144
A525	Str.		3	2'-2"	294
A526	Str.		6	3'-1"	30
A527	Str.		11	5'-0"	57
A528	Str.		1	9'-5"	10
A529	Str.		1	7'-1"	8
A530	Str.		6	10'-7"	66
A531	Str.		1	9'-7"	10
A532	Str.		1	8'-3"	9
A533	Str.		2	3'-7"	7
A534	Str.		6	7'-8"	48
A535	Str.		2	3'-5"	7
A536	Str.		4	2'-2"	163

MARK	TYPE	B	C	D	E	NO.	LENGTH	WEIGHT
P1001	Str.					30	22'-0"	297
P1002	Str.					30		
P1003	Str.					30		
P1004	Str.					90	6'-8"	257
P901	Str.					32	34'-5"	3890
P801	Str.					30	9'-8"	774
P802	Str.					108	8'-8"	2500
P803	Str.					16	6'-8"	285
P804	Str.					12	34'-8"	434
P805	Str.					132	7'-11"	1090

MARK	CORE DIA.	PITCH	NO.	LENGTH	WEIGHT
SP401	32"	4 1/2"	3	19'-0 3/8"	1072
SP402	32"	4 1/2"	3	15'-0 3/8"	859
SP403	32"	4 1/2"	3	13'-4 1/2"	768

Other details in accordance with CRSI Standard Practice.

MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
S701	Str.						554	3'	
S601	Str.						504	30'-0"	
S602	Str.						61	6'-2"	
S603	Str.						69		
S501	Str.	6	7'-2"	1'-6"			139		36
S502	Str.	6	7'-2"	1'-3"			417		97
S503	Str.	6	7'-2"	6'-6"			139		1.08
S504	Str.	6	7'-2"	2'-6"			139		50
S505	Str.	4	2'-2"	8"	5"		330		.92
L501	Str.	1	7'-2"	2'-1"	7'-2"		4	3'-1"	13
L502	Str.	1	2'-9"	2'-1"	2'-9"		4	7'-4"	31
L503	Str.	14	1'-4"	2'-11"	6"	2'-1"	6	8'-0"	50
L504	Str.						4	2'-9"	11

MARK	TYPE	A	B	C	D	E	NO.	LENGTH	WEIGHT
R501	Str.						56	15'-8"	*
R502	Str.						16	11'-1"	*
R505	Str.	4	3'-2"	8"	5"		16	7'-7"	*
R506	Str.	9					8	6'-7"	*
R507	Str.	8	4'-8"	3'-2"			8	8'-3"	*
R509	Str.						16	15'-7"	*
R510	Str.						8	4'-8"	*
R511	Str.	10	1'-6"	6'-2"			16	3'-3"	*
R512	Str.						32	10'-4"	*
R513	Str.						80	5'-0"	*

W.E.Q. BRIDGE 4
SHEET NO. 4 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

REINFORCING BAR SCHEDULE
BRIDGE NO. STA-30-1392
U.S.R. 30 under CLARENDON AVE.

STARK COUNTY
DESIGNED
DRAWN
CHECKED
REVIEWED
DATE
3/68

DATE
3/68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

344
435

C Rear Abutment Bearings
Sta. 40 + 76.47

Rear Pier Bearing
Sta. 41 + 19.47

Center Pier Bearings
Sta. 41 + 80.97

Forward Pier Bearings
Sta. 42 + 48.72

Foward Abutment Bearings
Sta. 43 + 05.97

FOOTING PLAN

W.E.Q. BRIDGE 4
SHEET NO. 5 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

FOOTING PLAN

BRIDGE NO. STA-30-1392

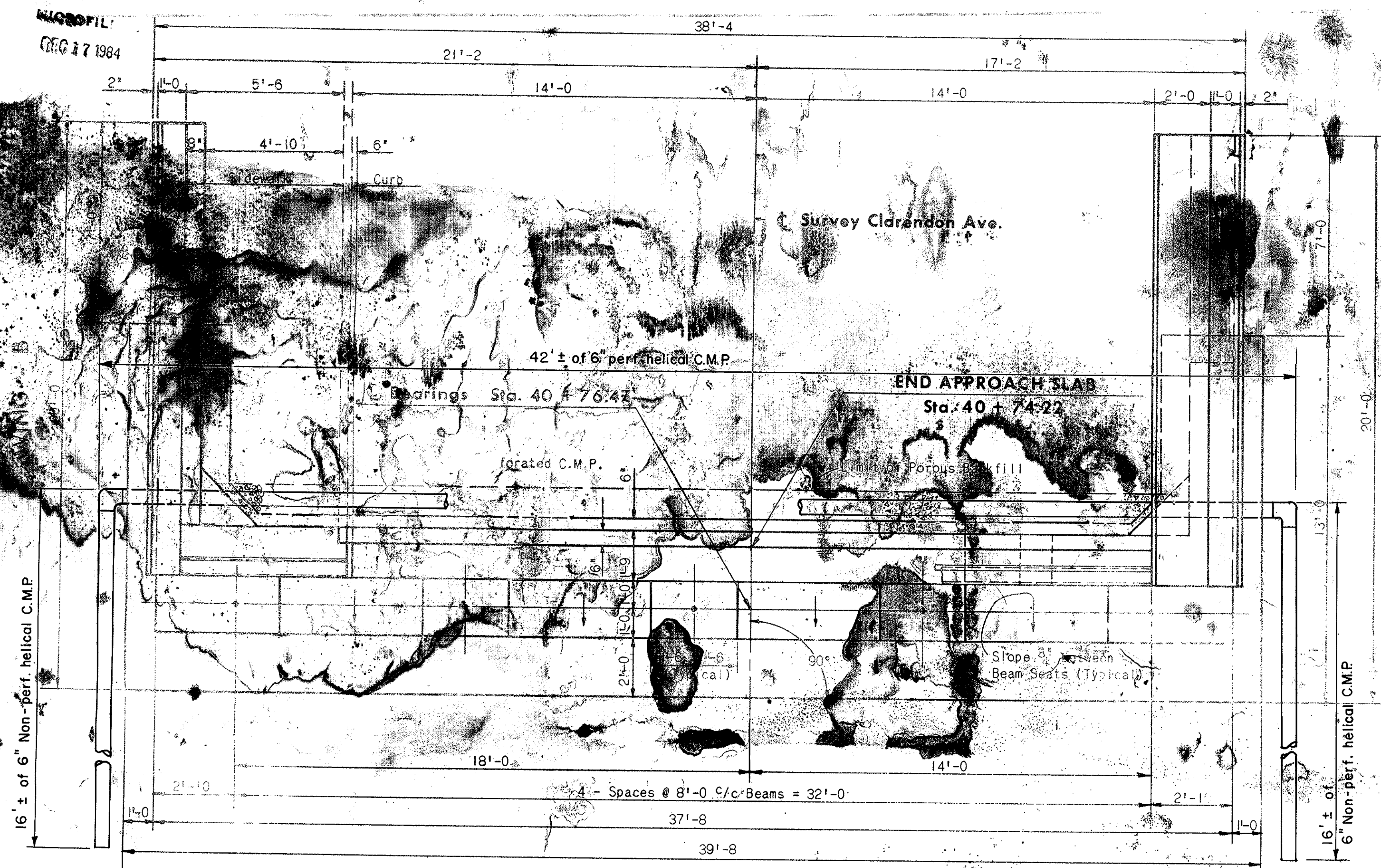
U.S.R. 30 under CLARENDON AVE.

STARK COUNTY

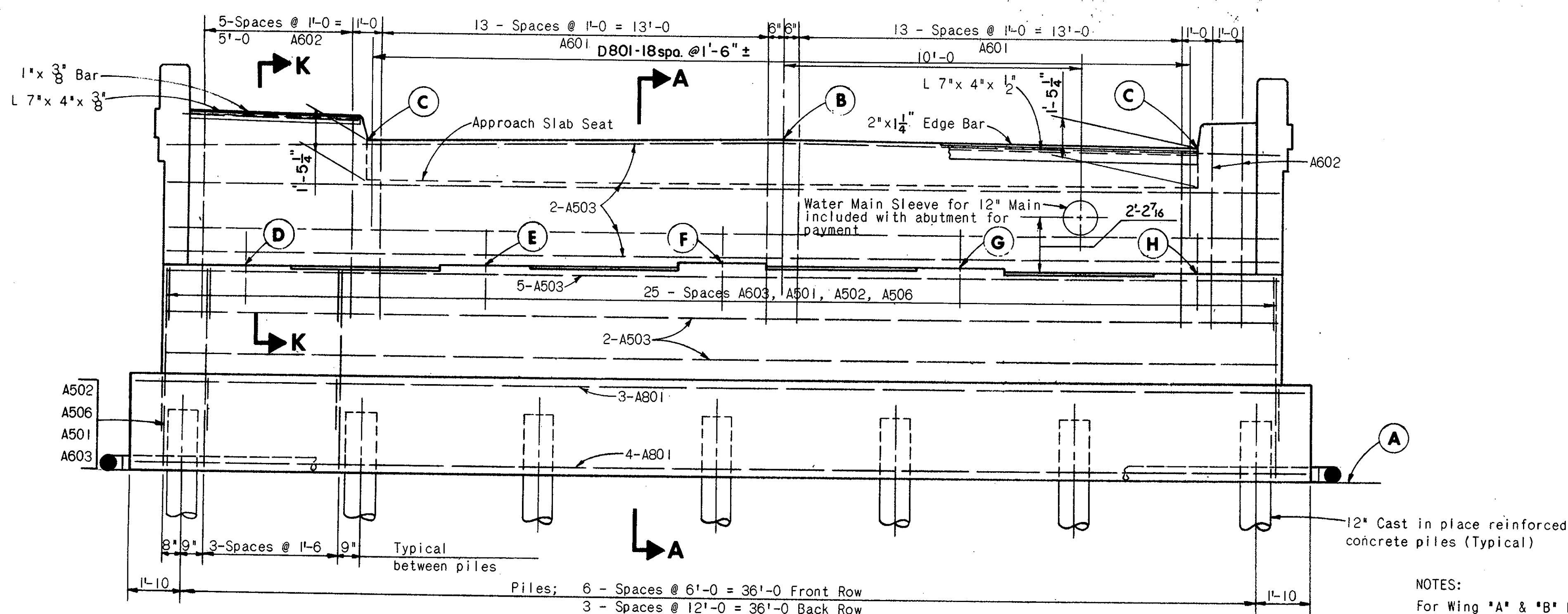
STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wda	DLM	3/68	

STA-30-12.47

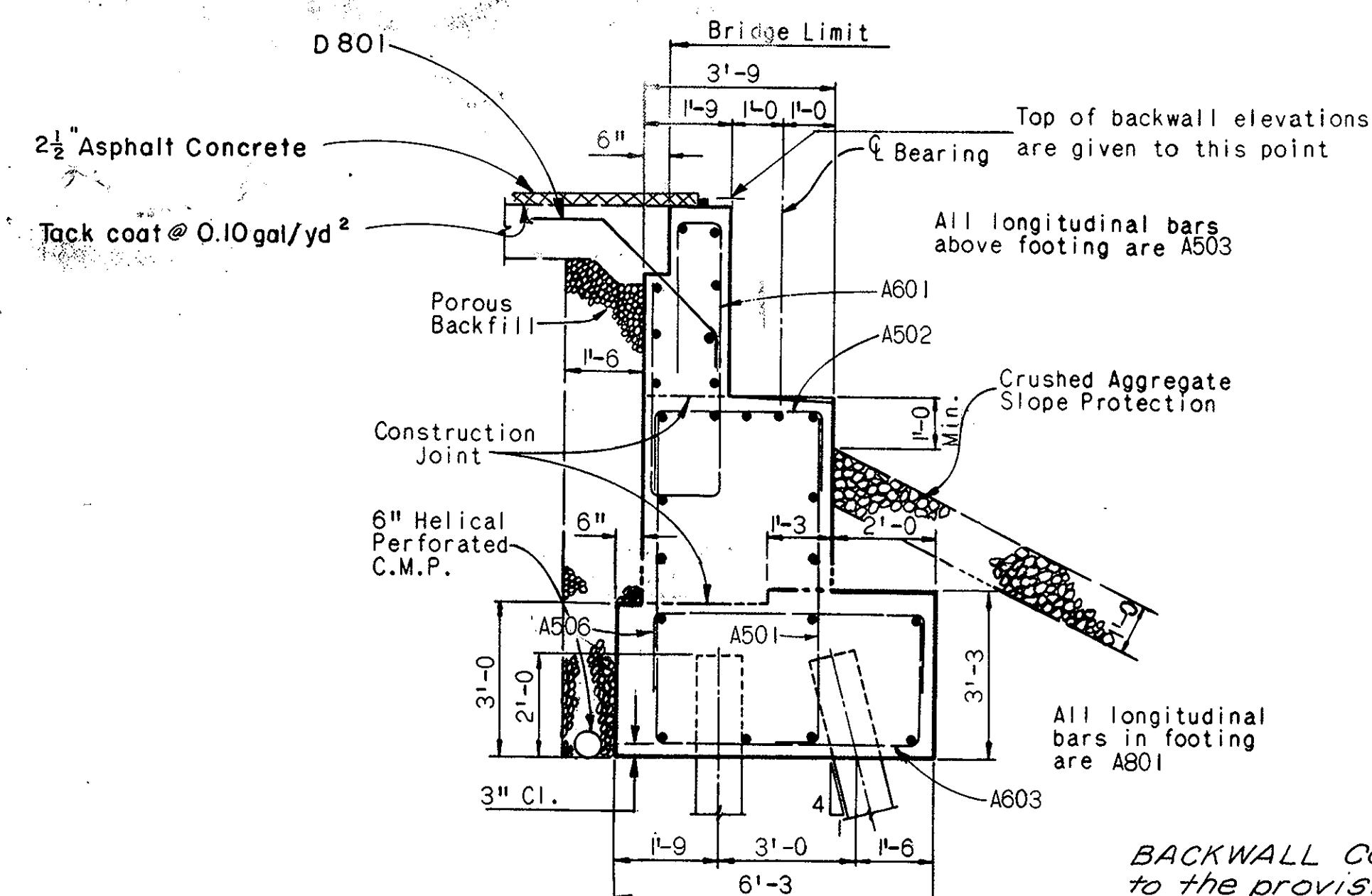


PLAN



ELEVATION

ELEVATIONS									
LOCATION	A	B	C	D	E	F	G	H	J
Rear Abutment	1058.99	1070.60	1070.38	1065.91	1066.04	1066.16	1066.10	1065.98	1070.19



SECTION A-A

BACKWALL CONCRETE: In addition to the provisions of 511.08, back-wall concrete shall not be placed until after the deck concrete in the span adjacent to the back-wall has been placed.

NOTES:

For Wing "A" & "B" Details and
Section K-K, see Sheet No. 7

Porous Backfill shall extend upward to the
Approach Slab and to the bottom of sidewalk.

W.E.Q. BRIDGE 4
SHEET NO. 6 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

REAR ABUTMENT

BRIDGE NO. STA-30-1392

U.S.R. 30 under CLARENDON AVE.

STARK COUNTY

STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wda	DLM	3/68	

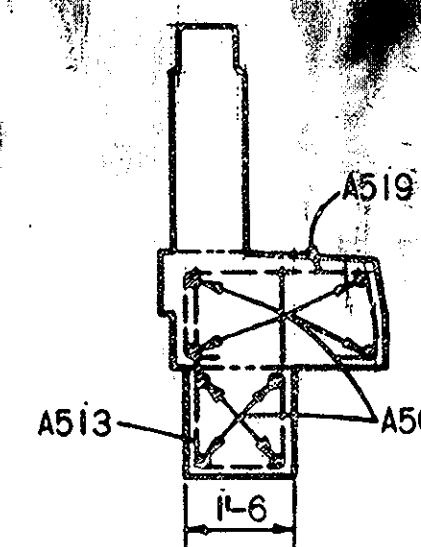
MICROFILMED
DEC 17 1984

FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

346
135

STA. 30-12.47

For dimensions not shown,
see Section #6.



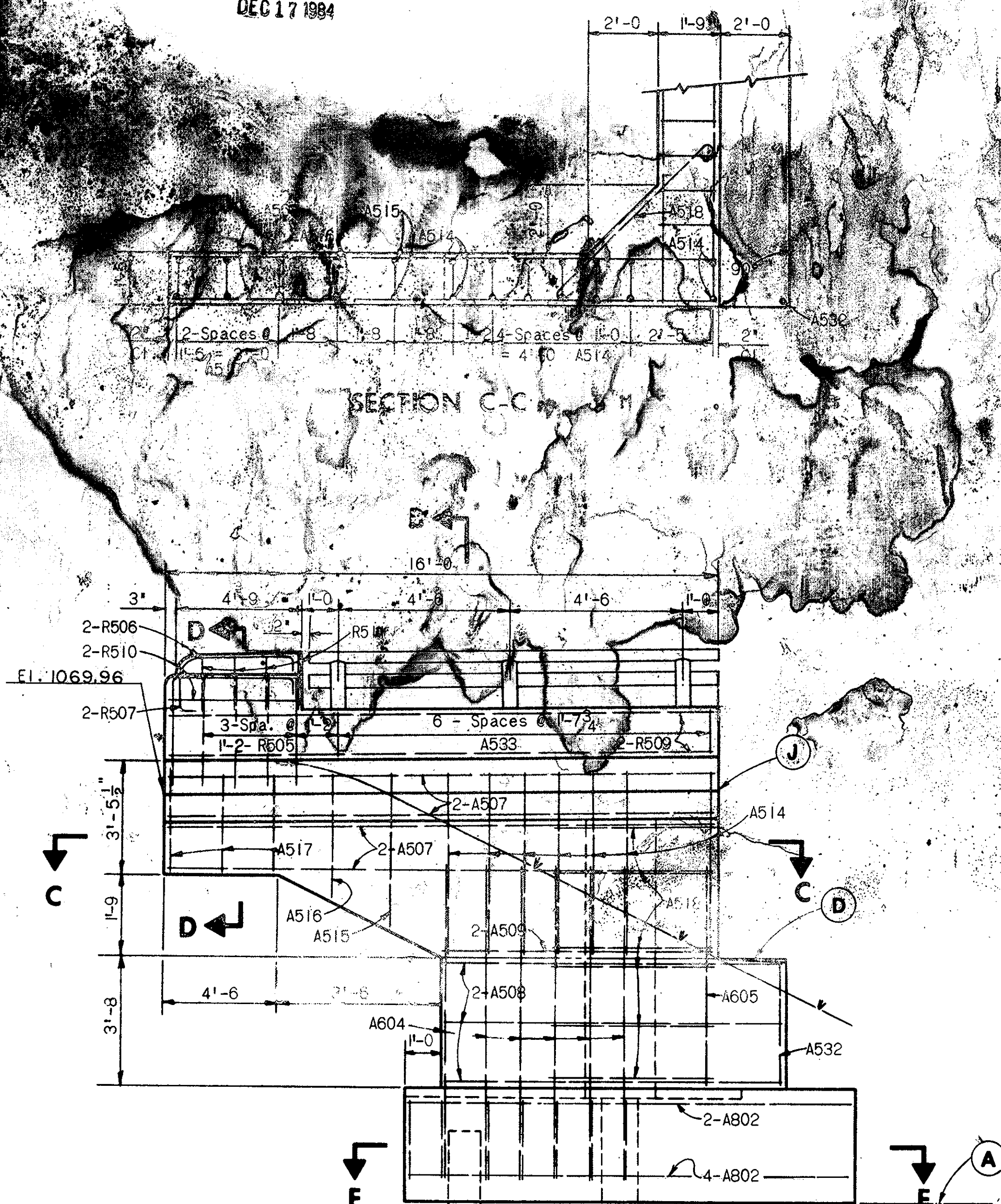
SECTION F-F

SECTION C-C

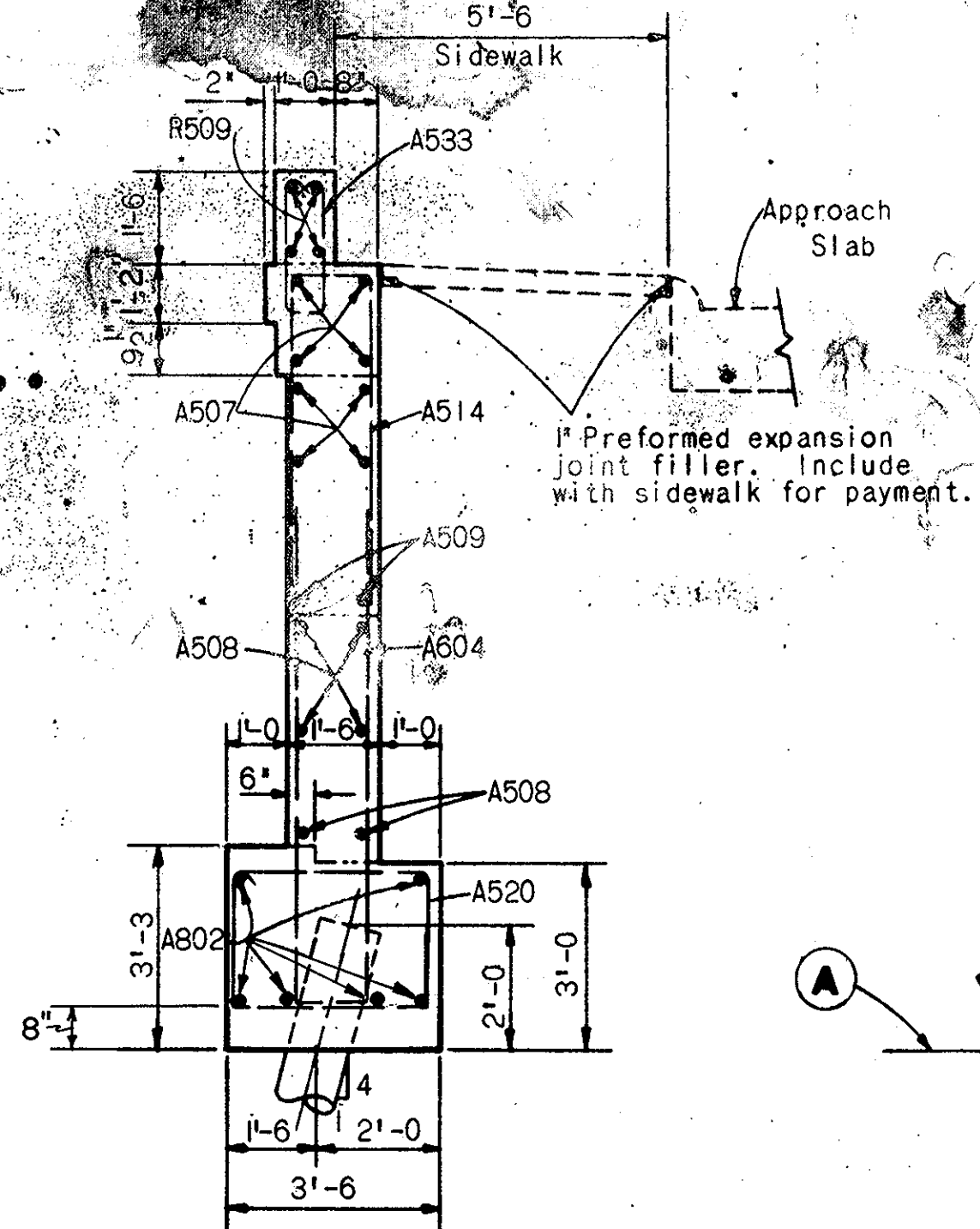
SECTION D-D

SECTION K-K

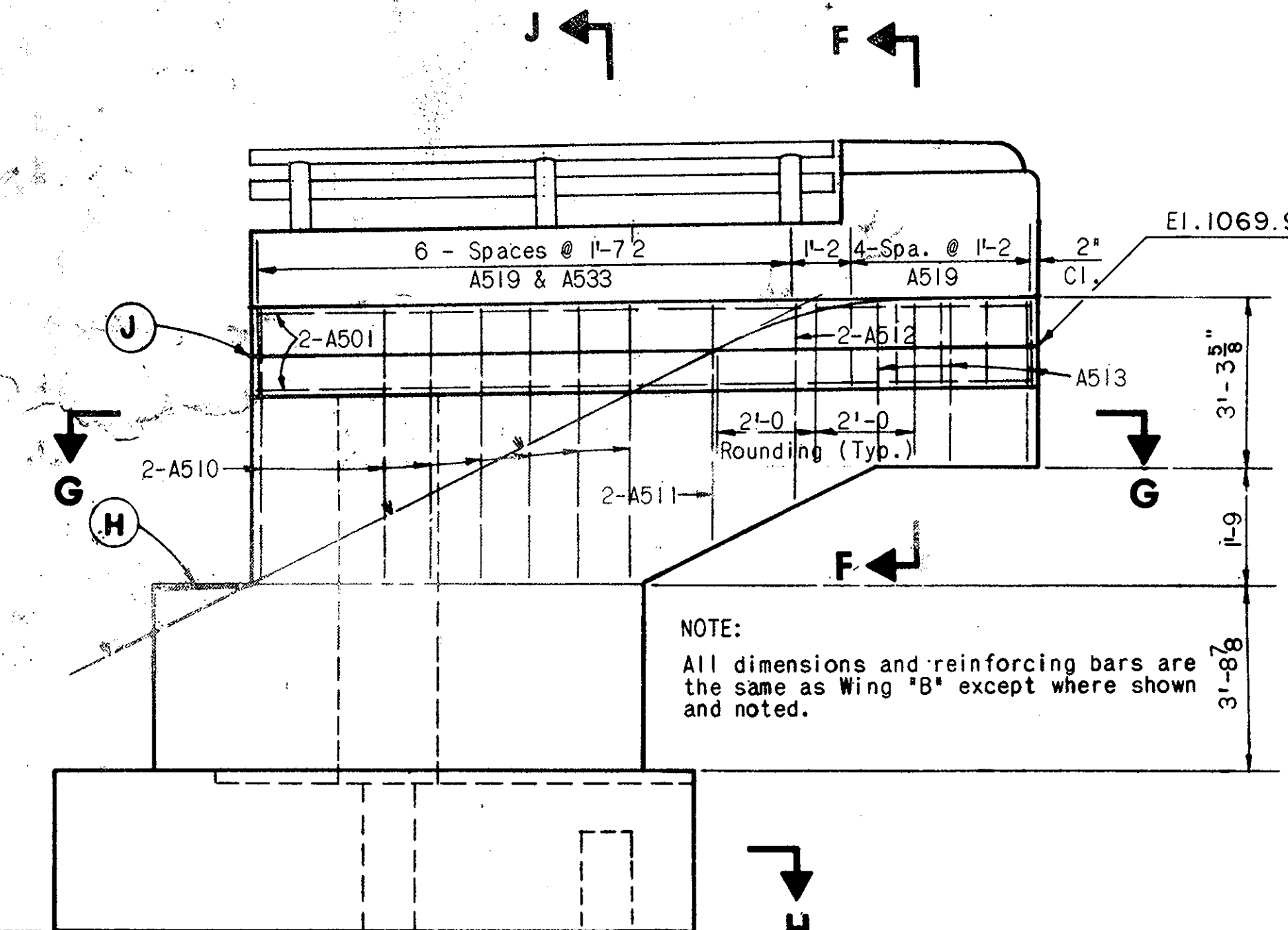
SECTION G-G



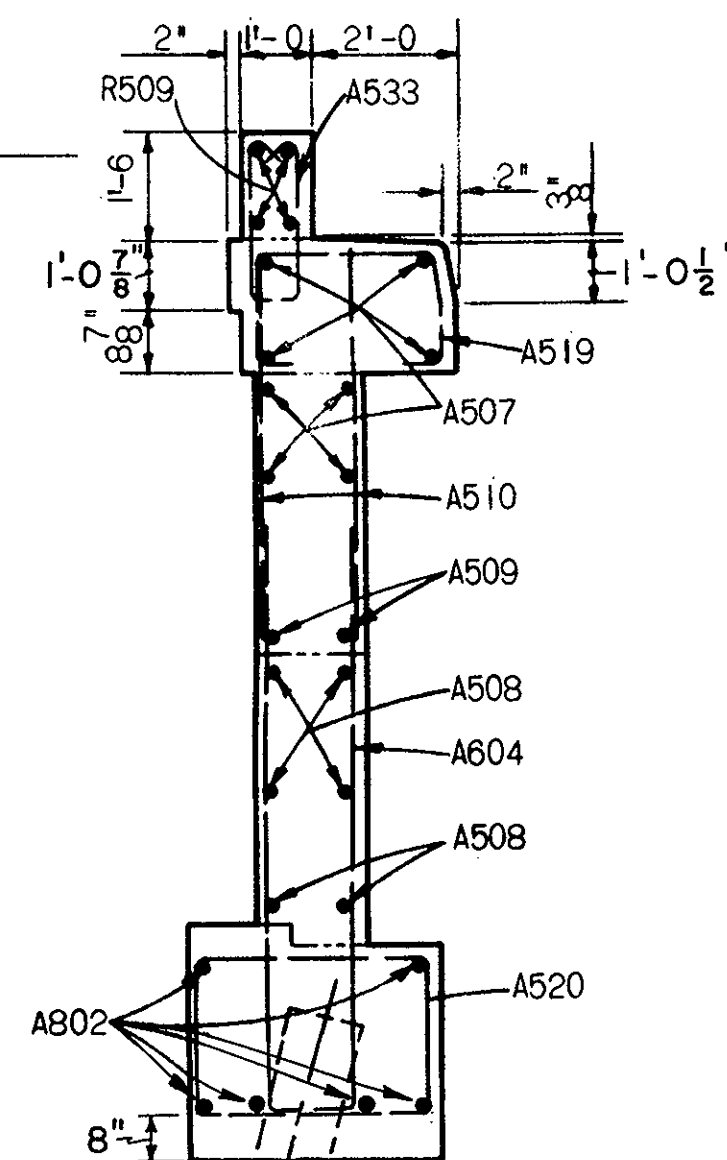
ELEVATION - WING B



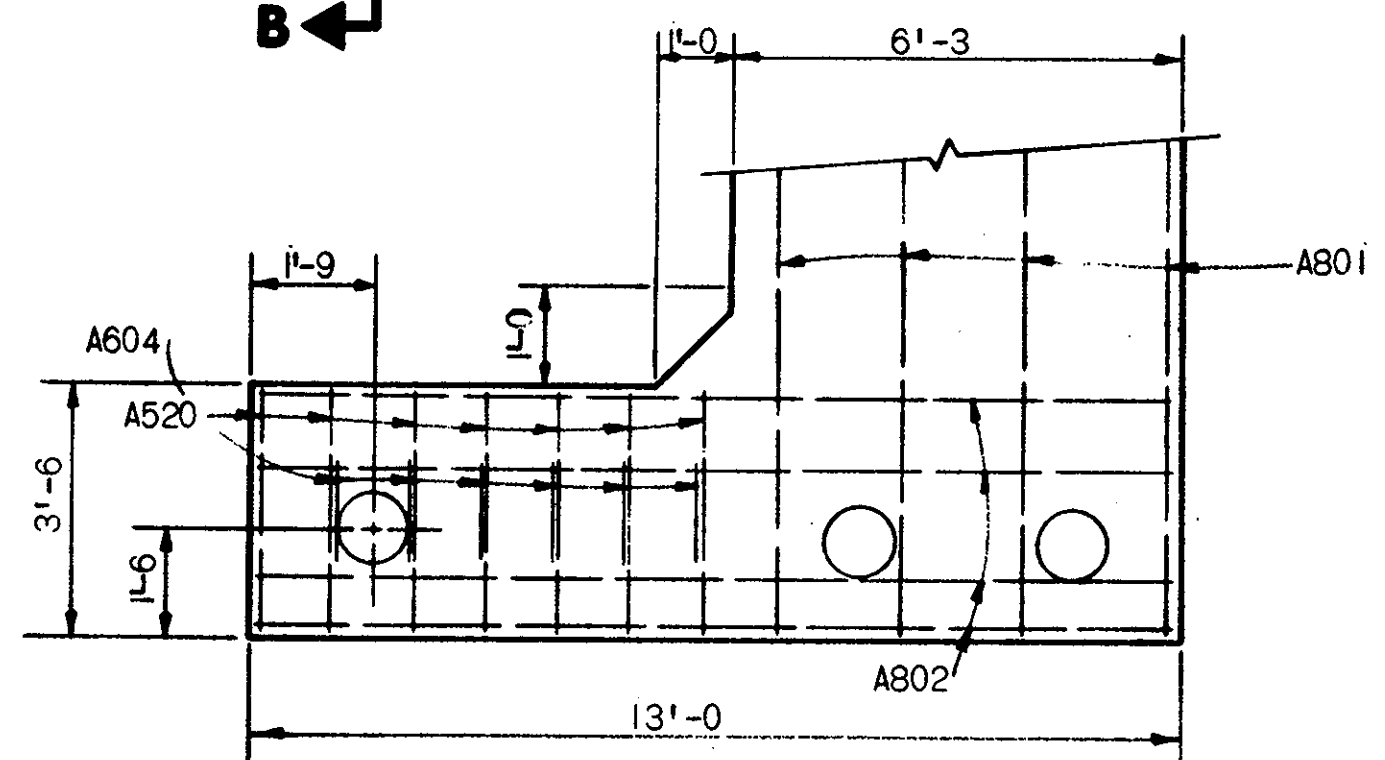
SECTION B-B



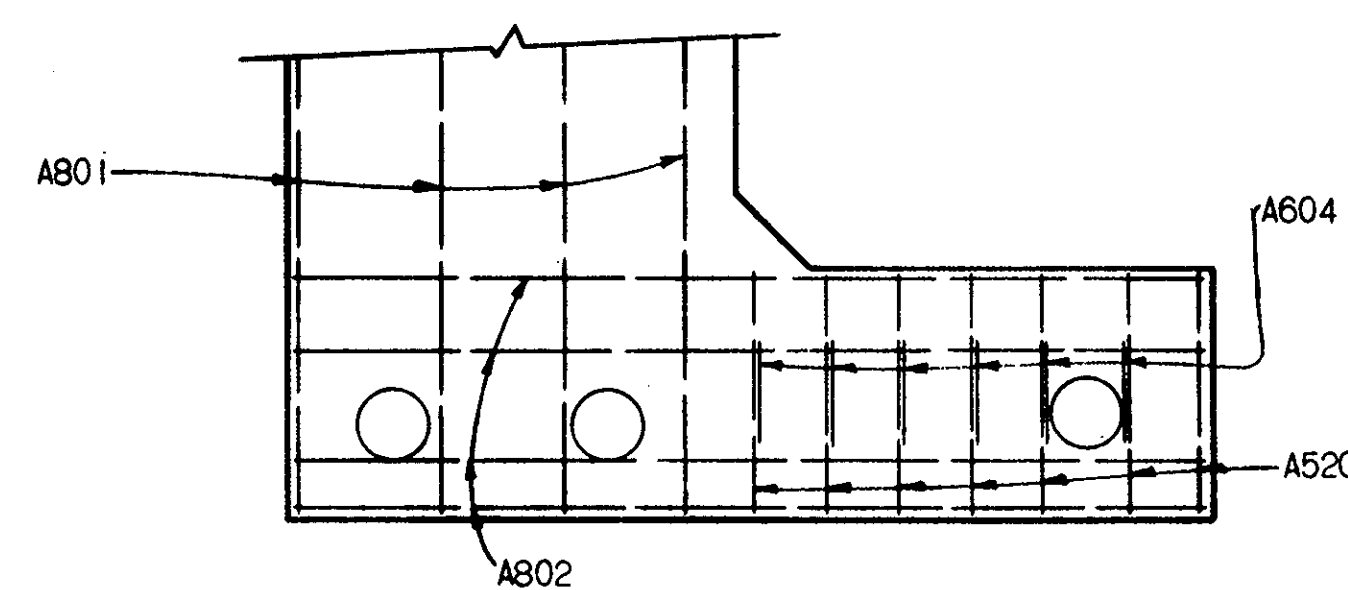
ELEVATION - WING A



SECTION J-J



SECTION E-E



SECTION H-H

For Abutment Elevations and
additional details, see sheet #6.

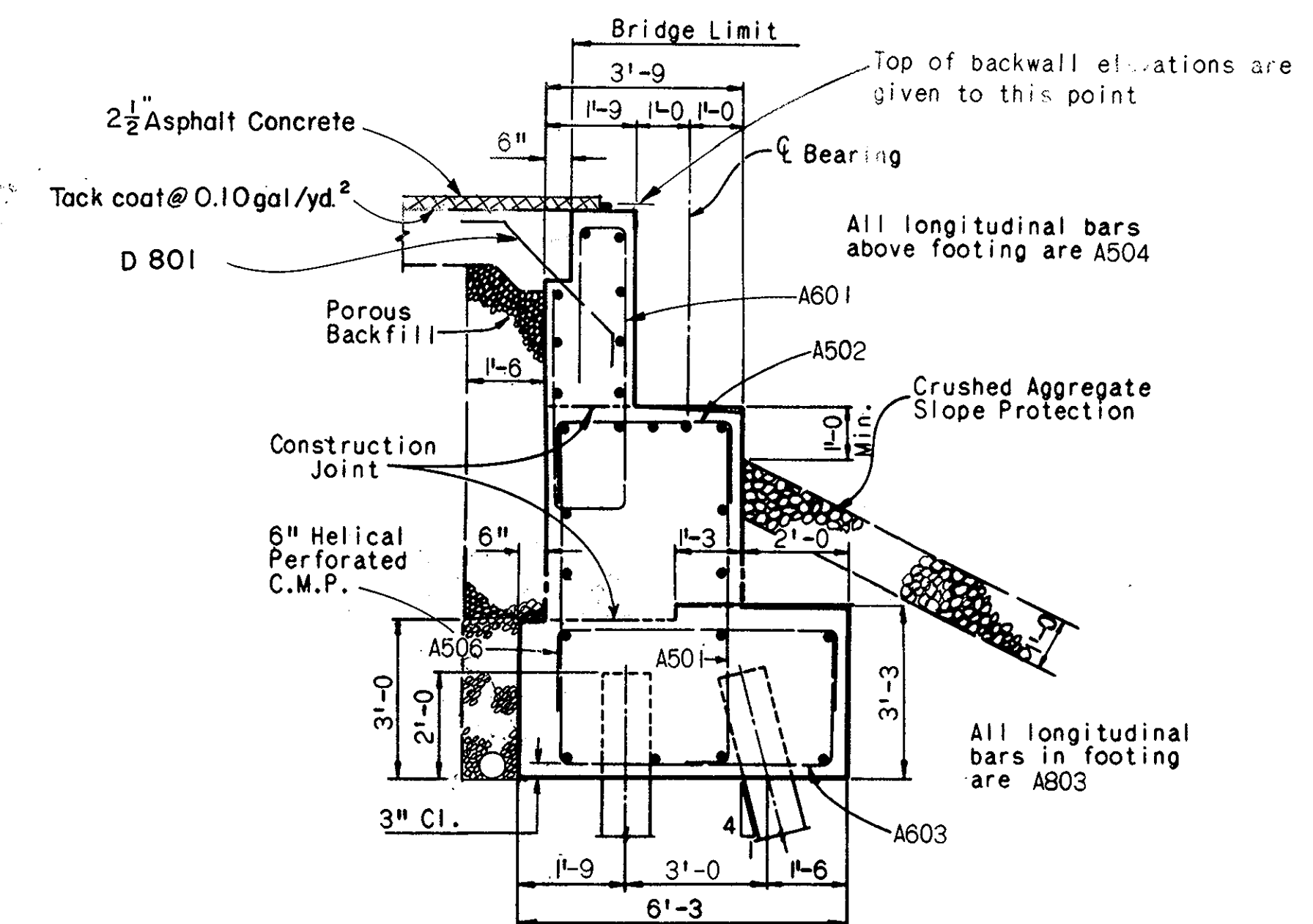
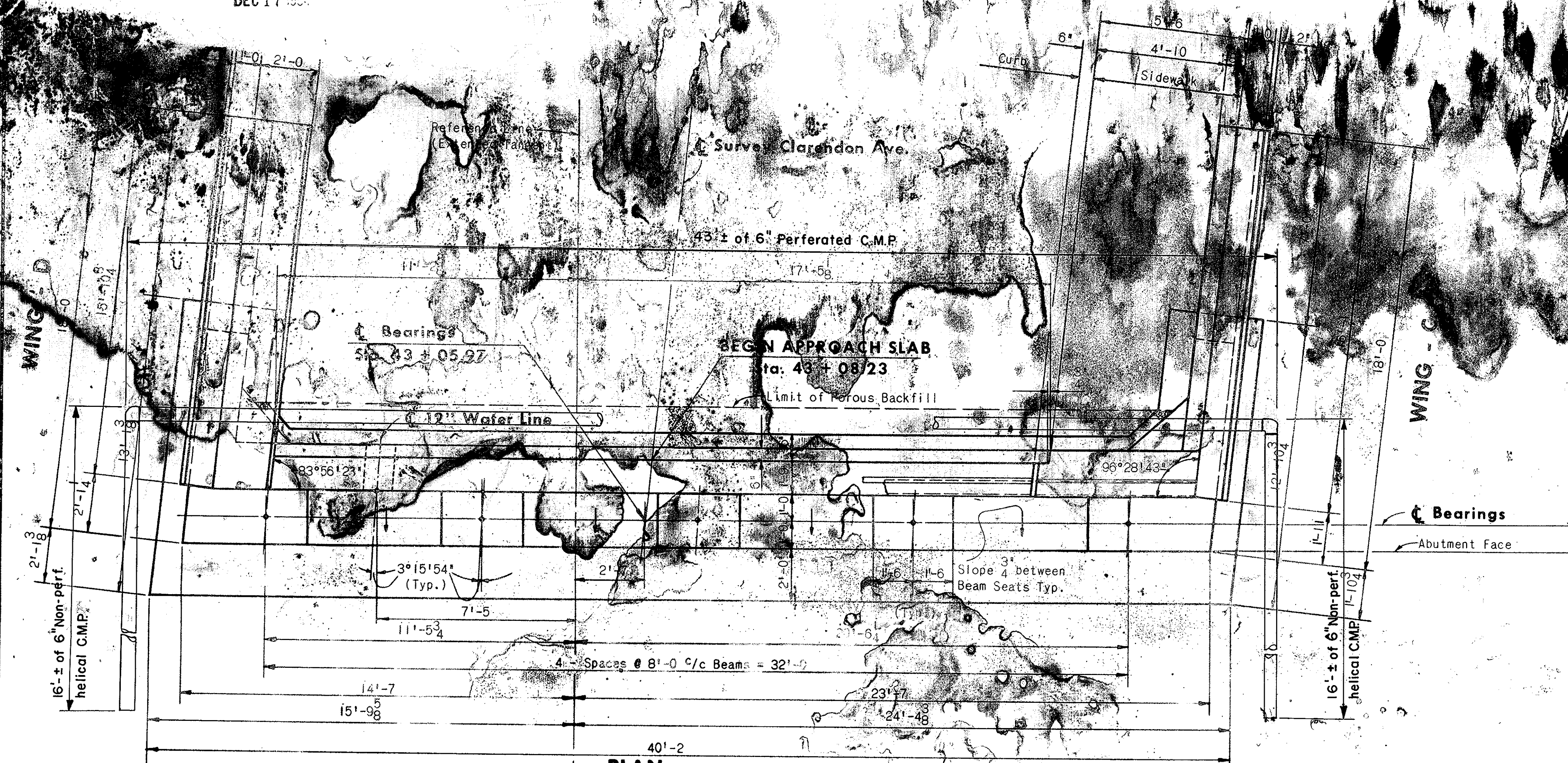
W.E.Q. BRIDGE 4
SHEET NO. 7 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

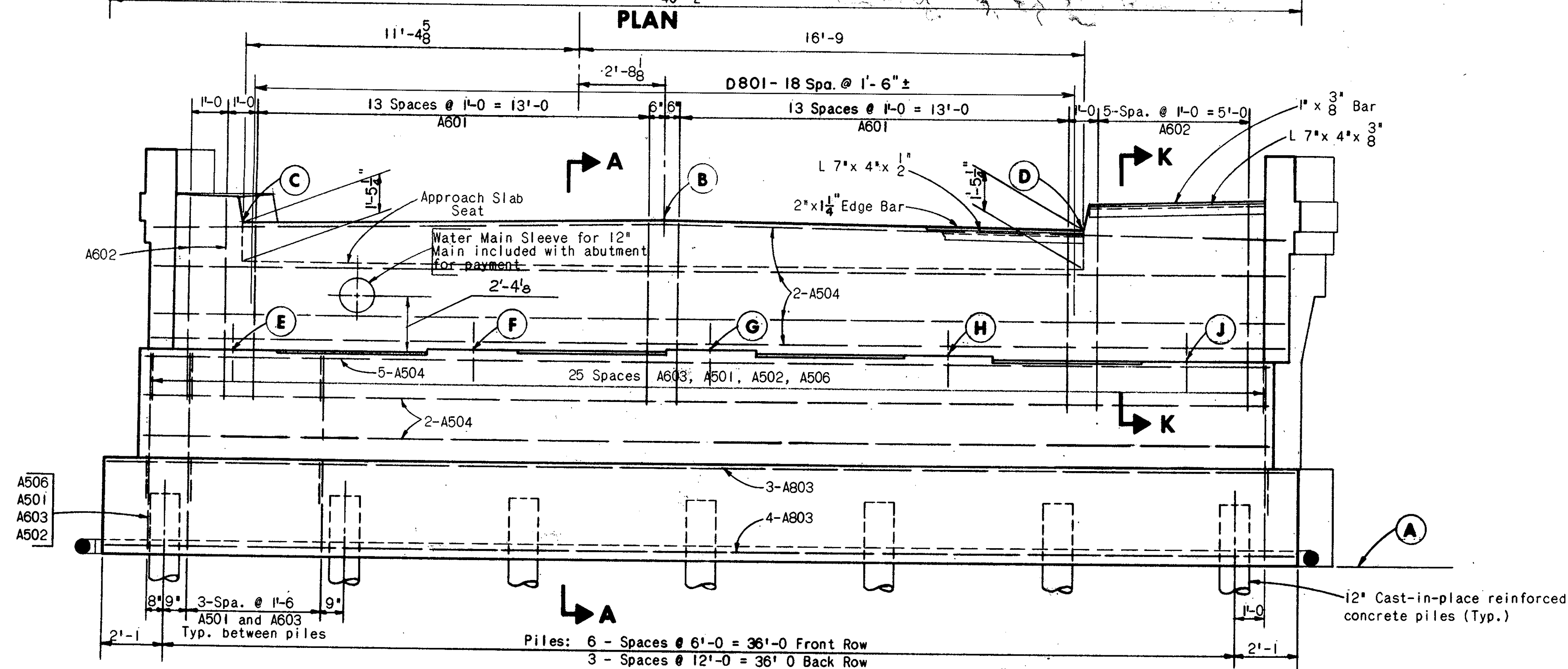
REAR ABUTMENT
BRIDGE NO. STA-30-1392
U.S.R. 30 under CLARENDON AVE.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wdg	DLN	3/68	

ELEVATIONS									
LOCATION	A	B	C	D	E	F	G	H	J
Hard Abutment	1061.99	1073.83	1073.59	1073.63	1069.06	1069.19	1069.27	1069.15	1069.04



SECTION A-A



ELEVATION

NOTES:

For Wing "C" & "D" details and
Section K-K, see sheet no. 9.

Porous Backfill shall extend upward to the approach slab and to the bottom of sidewalk.

BACKWALL CONCRETE: In addition to the provisions of 511.08, backwall concrete shall not be placed until after the deck concrete in the span adjacent to the backwall has been placed.

W.E.Q. BRIDGE 4
SHEET NO. 8 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

FORWARD ABUTMENT
BRIDGE NO. STA-30-1392

U.S.R. 30 under CLARENDON AVE.

STARK COUNTY STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wda	DLN	3/68	

DESIGNED	PMZ	DATE	3/18
DRAWN	Wda	DATE	3/18
CHECKED		DATE	
REVIEWED		DATE	

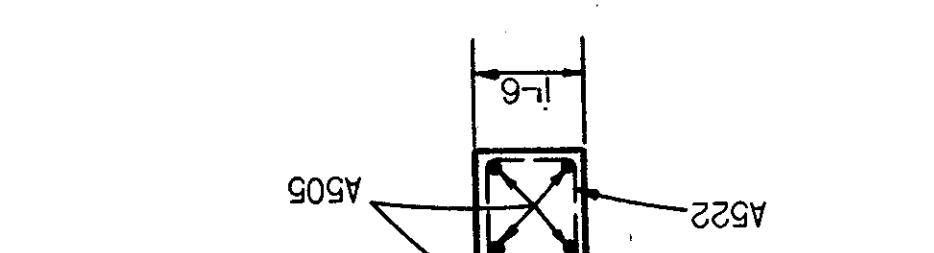
STARK COUNTY
U.S.R. 30 under CLARENDON AVE.
BRIDGE NO. STA-30-1392
FORWARD ABUTMENT

W. E. QUICKSALL AND ASSOCIATES, INC.
CONSULTING ENGINEERS • NEW PHILADELPHIA, OHIO

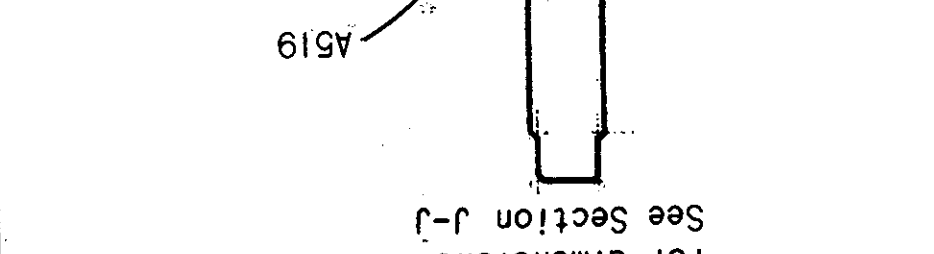
SHEET NO. 9 OF 13
W.E.Q. BRIDGE 4

For Abutment Elevations and additional details, see Sheet #8.

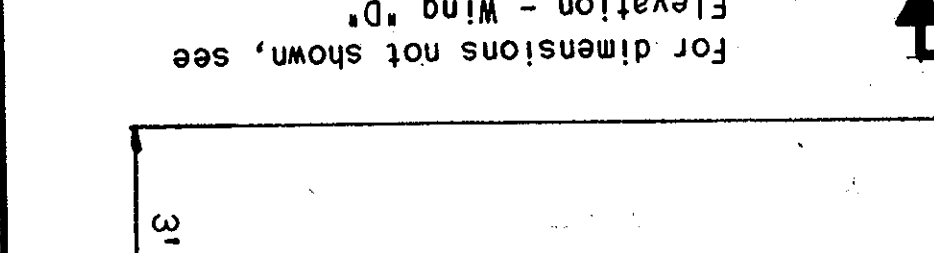
SECTION H-H



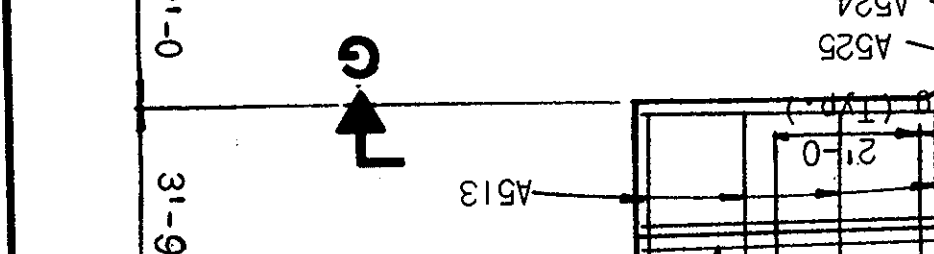
SECTION K-K



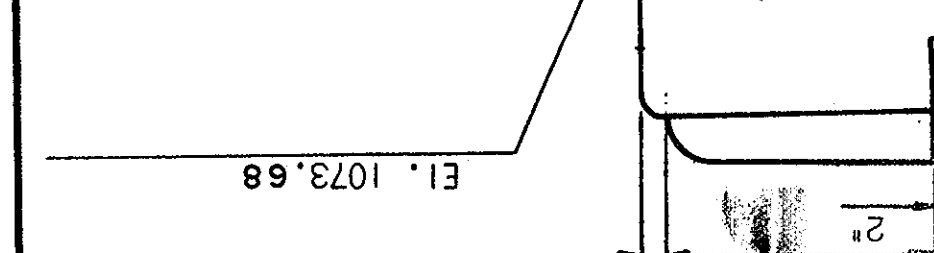
SECTION J-J



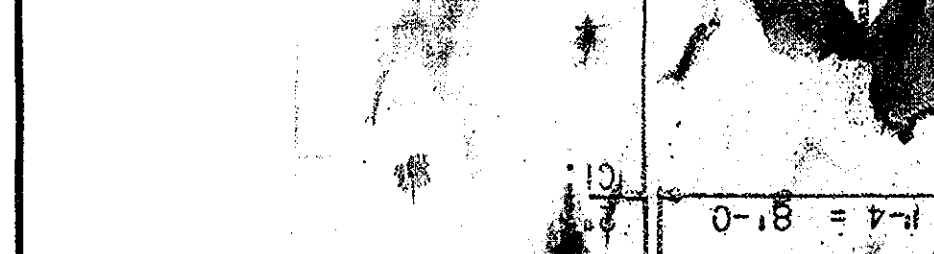
SECTION E-E



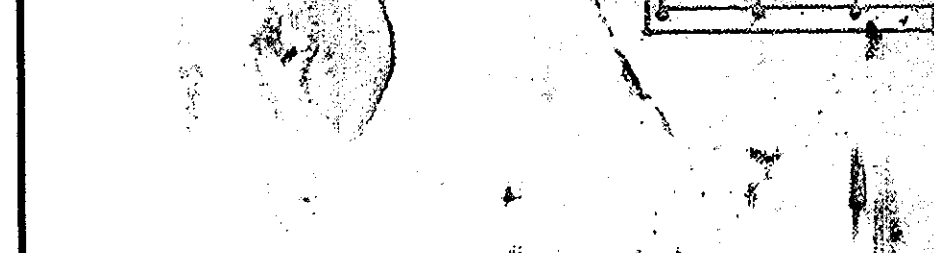
SECTION B-B



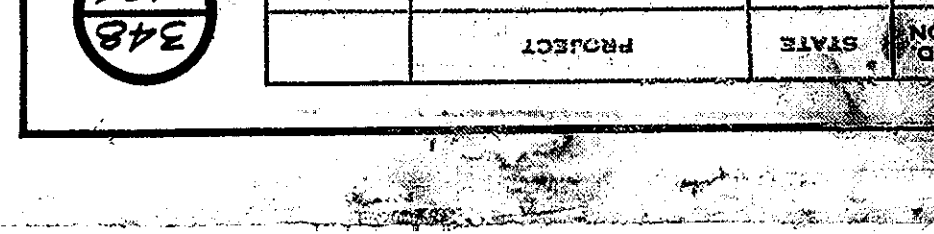
SECTION D-D



ELEVATION-WING 'C'



ELEVATION-WING 'D'



SECTION F-F



SECTION G-G



SECTION C-C



SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I



SECTION J-J



SECTION K-K



SECTION L-L



SECTION M-M



SECTION N-N



SECTION O-O



SECTION P-P



SECTION Q-Q



SECTION R-R



SECTION S-S



SECTION T-T



SECTION U-U



SECTION V-V



SECTION W-W



SECTION X-X



SECTION Y-Y



SECTION Z-Z



SECTION AA-AA



SECTION BB-BB



SECTION CC-CC



SECTION DD-DD



SECTION EE-EE



SECTION FF-FF



SECTION GG-GG



SECTION HH-HH



SECTION II-II



SECTION JJ-JJ



SECTION KK-KK



SECTION LL-LL



SECTION MM-MM



SECTION NN-NN



SECTION OO-OO



SECTION PP-PP



SECTION QQ-QQ



SECTION RR-RR



SECTION SS-SS



SECTION TT-TT



SECTION UU-UU



SECTION VV-VV



SECTION WW-WW



SECTION XX-XX



SECTION YY-YY



SECTION ZZ-ZZ



SECTION AA-AA



SECTION BB-BB



SECTION CC-CC



SECTION DD-DD



SECTION EE-EE



SECTION FF-FF



SECTION GG-GG



SECTION HH-HH



SECTION II-II



SECTION JJ-JJ



SECTION KK-KK



SECTION LL-LL



SECTION MM-MM



SECTION NN-NN



SECTION OO-OO



SECTION PP-PP



SECTION QQ-QQ



SECTION RR-RR



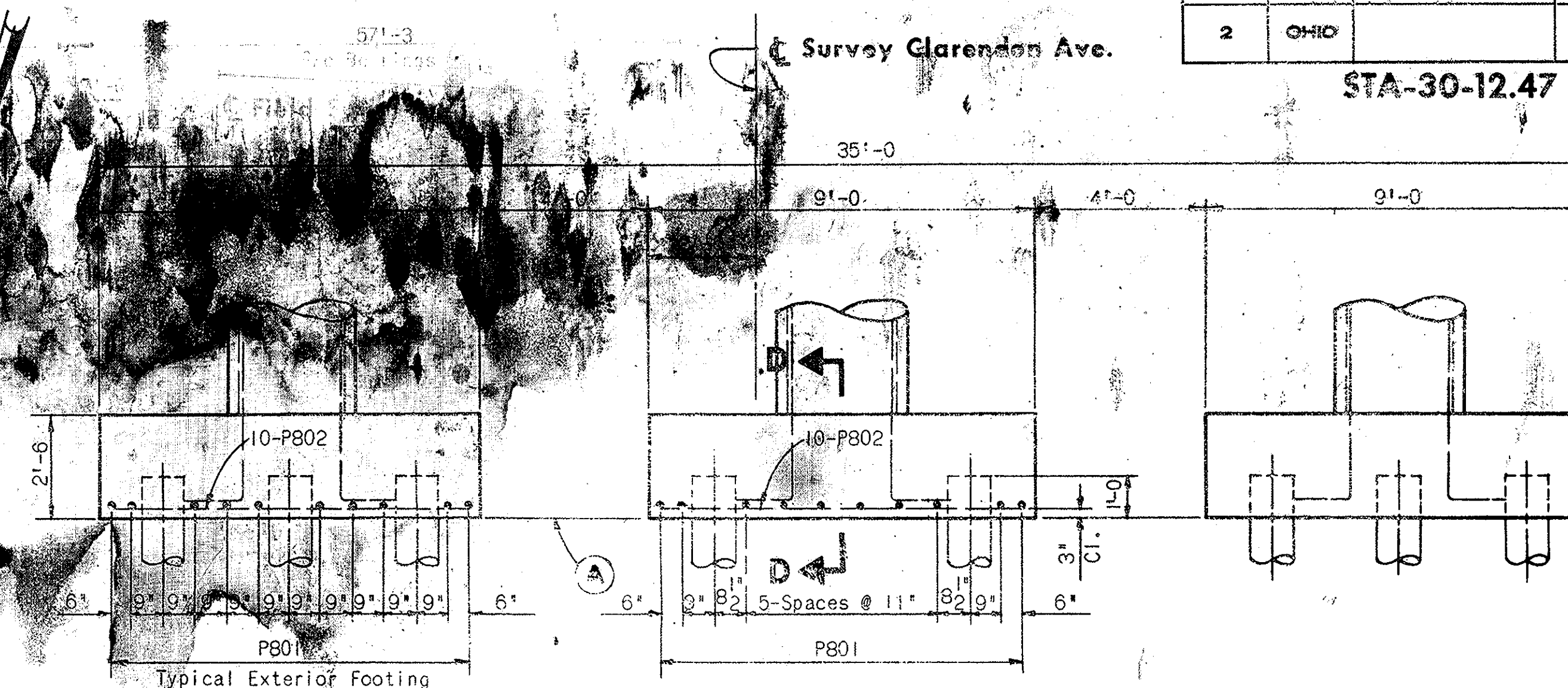
SECTION SS-SS



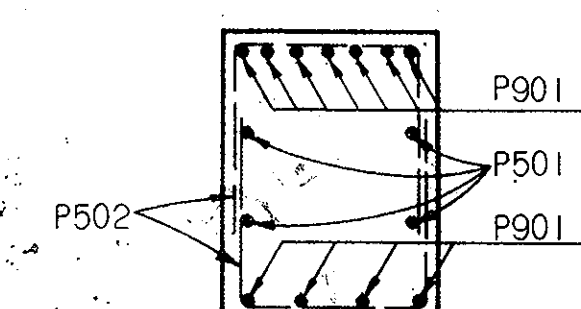
SECTION TT-TT



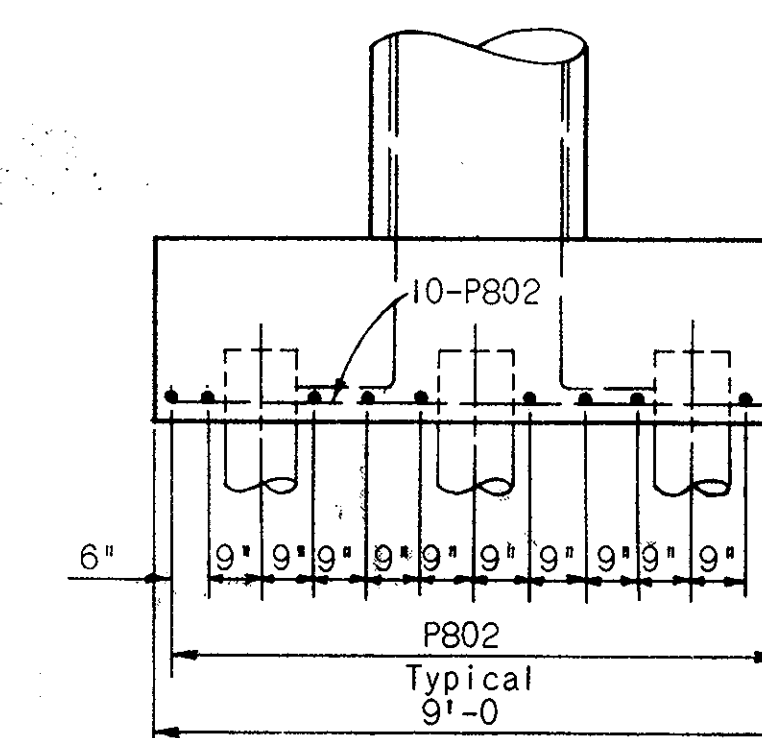
Survey Clarendon Ave.



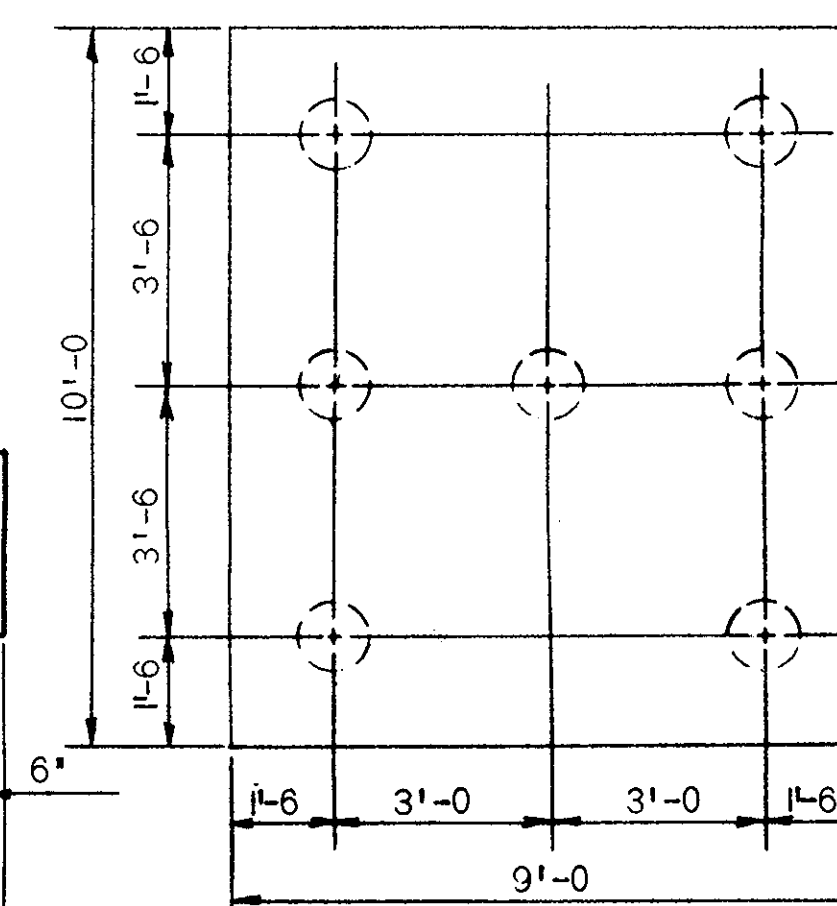
FOOTING DETAIL-FORWARD PIER



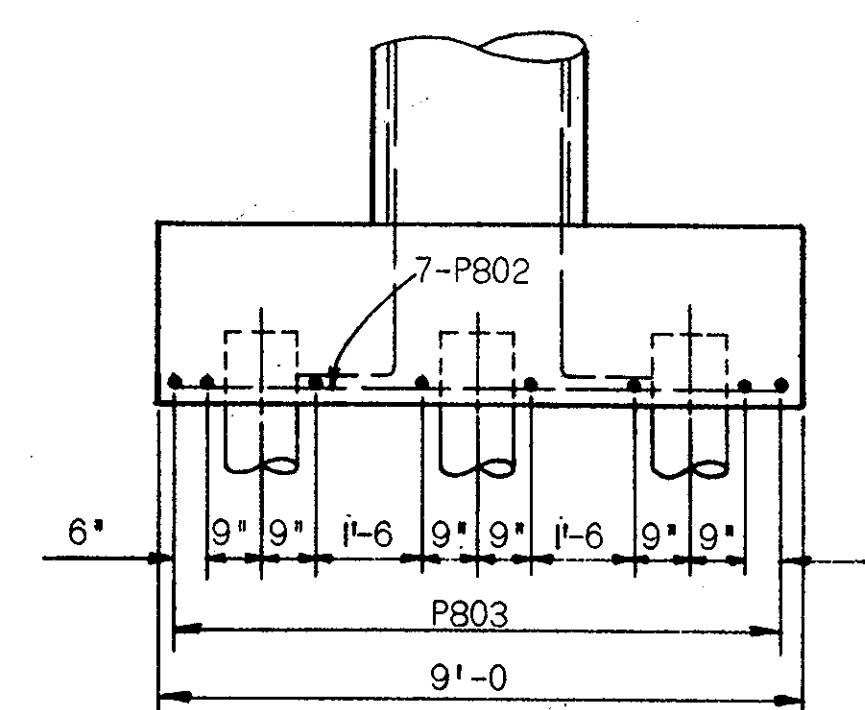
SECTION A-A



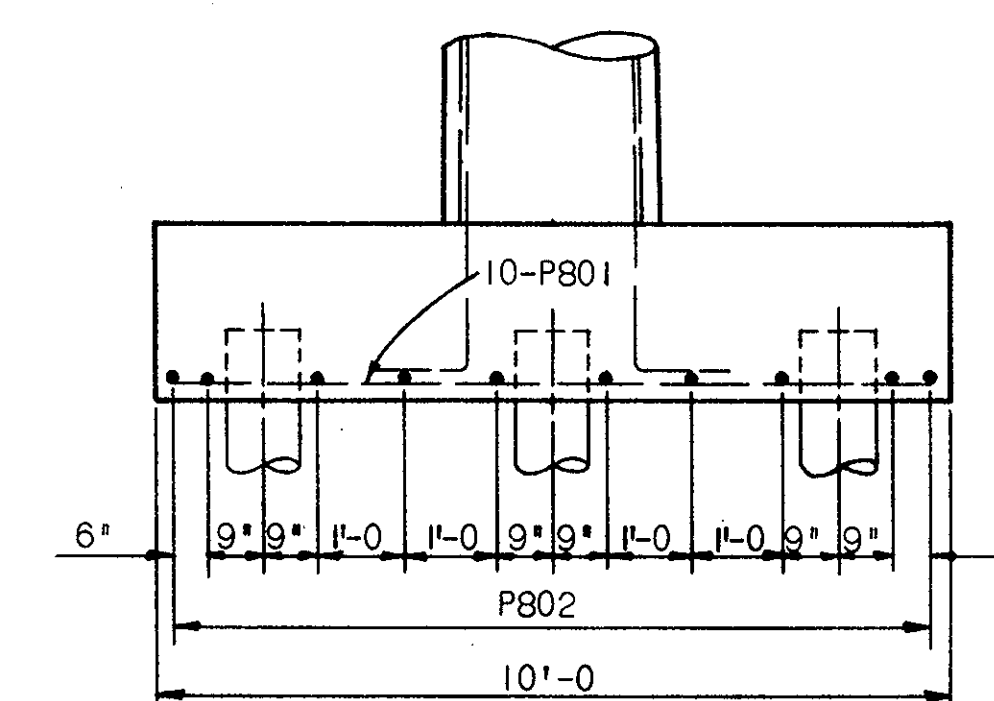
SECTION B-B



FOOTING PLAN - FW'D PIER
(TYPICAL EXTERIOR)



SECTION C-C



SECTION D-D

ELEVATION

Footing dimensions apply to rear and center piers only.
See other detail for forward pier footing dimensions.

Note: BEARING ANCHORS: At the option of the Contractor, bearing anchors (or formed holes), located and supported by templates, may be cast in place.

W.E.Q. BRIDGE 4
SHEET NO. 10 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
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PIER DETAILS

BRIDGE NO. STA-30-1392

U.S.R. 30 under CLARENDON AVE.

STARK COUNTY

STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wda	DLM	3/68	

STA-30-12.47

SUPERSTRUCTURE NOTES

ADDITIONAL DETAILS: Refer to Standard Drawing SD-1-69, sheets 1, 2 and 3 & 4 and BR-2-67 for details not shown.

For Scupper details see Std. Dwg. SD-1-69 sheet 3 of 4.

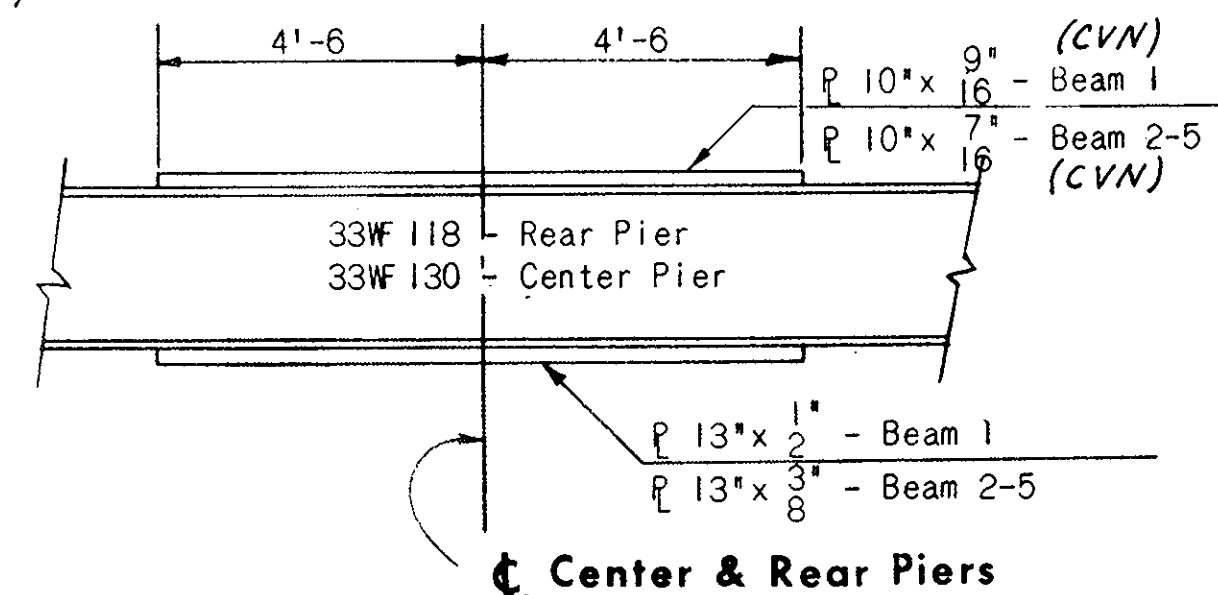
SLAB THICKNESS: Shown includes 1" for monolithic wearing surface.

DECK SLAB HAUNCH: A typical haunch width of 9" shall be used for computing quantities of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall not be greater than 1:4 for a haunch less than 9" wide.

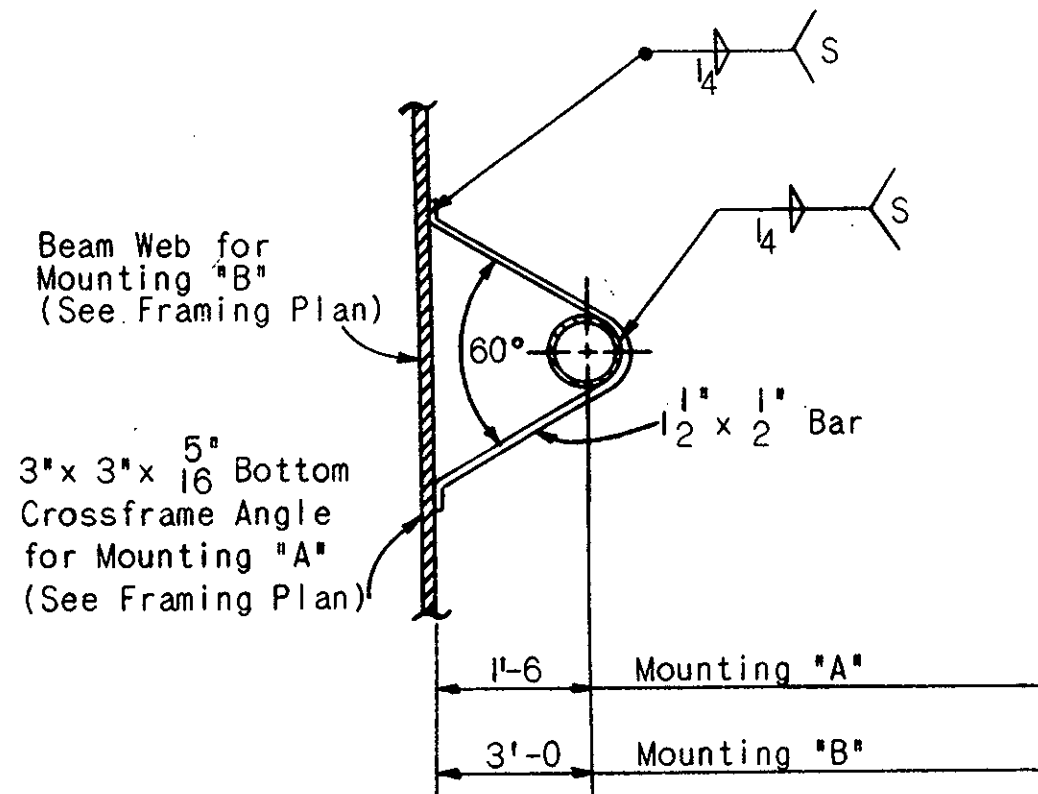
THIS DIMENSION is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates, as per Sec. 511.19 of Construction and Material Specifications.

BEAM LINE structural steel supports and U-Bolts included with structural steel for payment.

All splice material shall be CVN steel



MOMENT PLATE DETAILS



DETAIL 'Z'

W.E.Q. BRIDGE 4
SHEET 11 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
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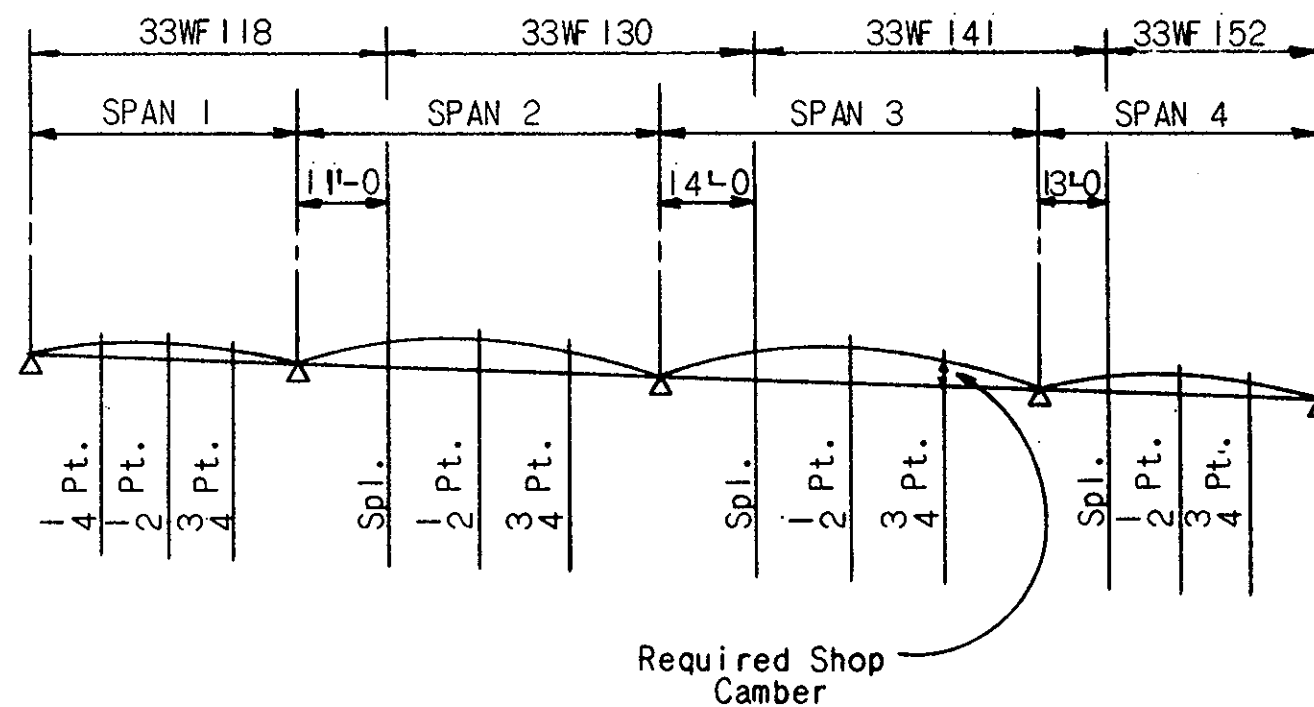
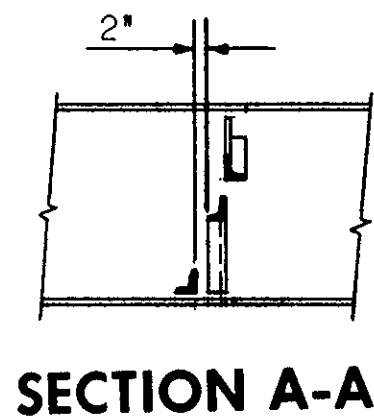
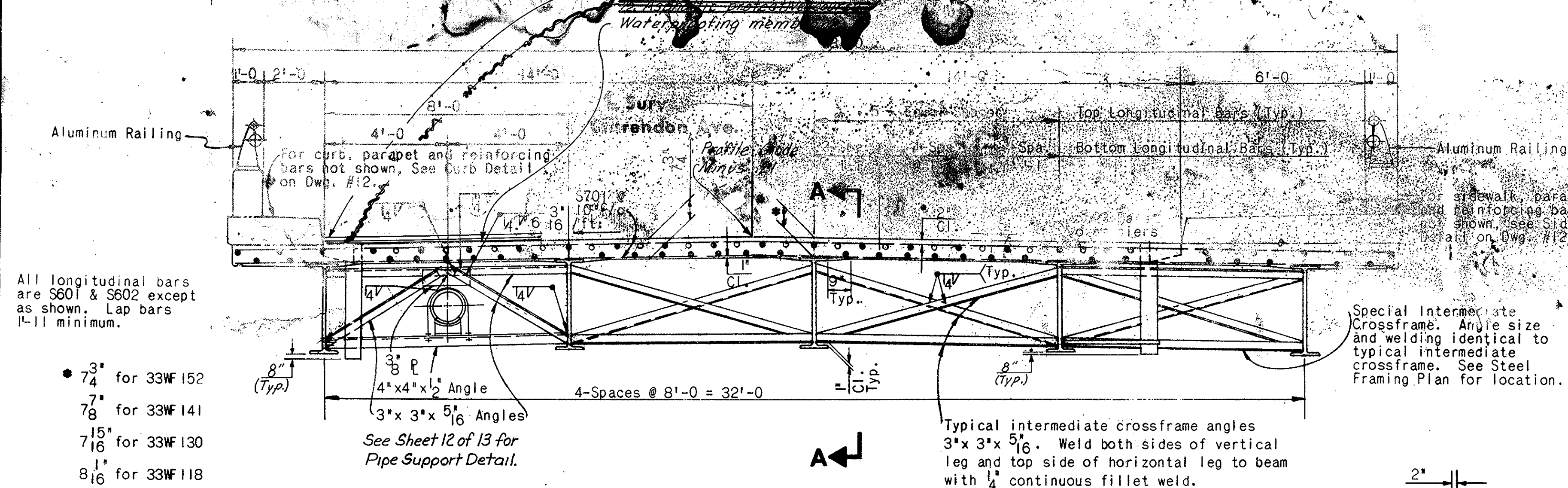
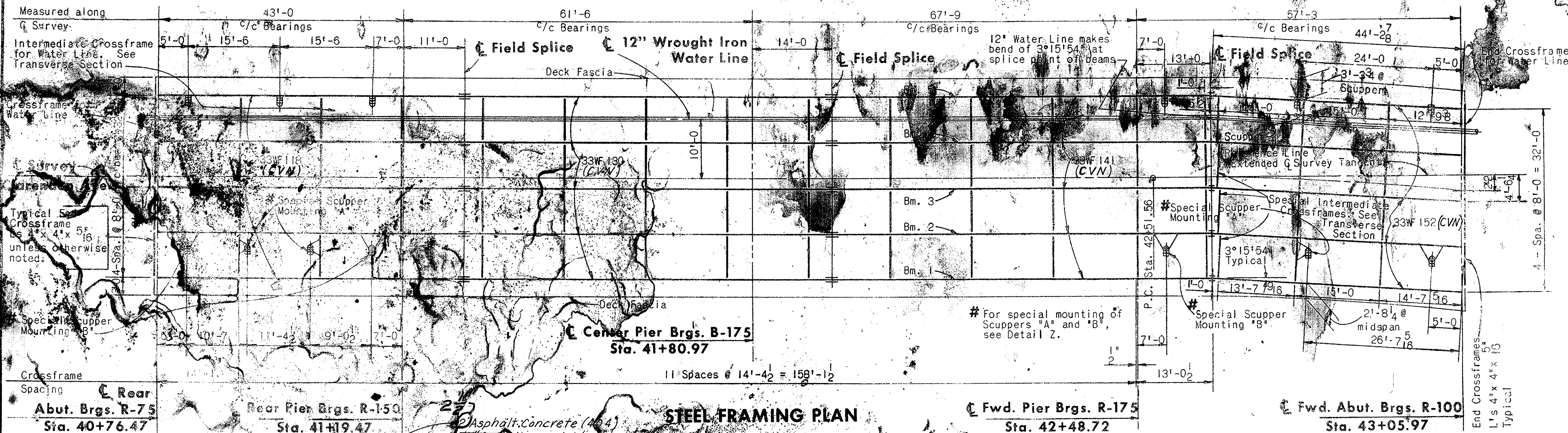
SUPERSTRUCTURE DETAILS

BRIDGE NO. STA-30-1392

U.S.R. 30 under CLARENDON AVE.

STARK COUNTY STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		uda	PLM	3/68	9.29.75



CAMBER & DEFLECTION DIAGRAM

LOCATION	SPAN 1				SPAN 2				SPAN 3				SPAN 4			
	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. l.	1/2 Pt.	3/4 Pt.	Sp. l.	1/2 Pt.	3/4 Pt.	Sp. l.	1/2 Pt.	3/4 Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. l.
Deflection due to weight of steel.	0	0	0	0	1/16	0	0	1/16	0	0	1/16	0	1/16	0	1/16	0
Deflection due to remaining dead load	3/16	1/8	1/16	1/8	3/8	3/16	1/4	1/8	1/4	3/16	1/4	1/8	3/16	1/4	1/8	1/4
Required shop camber	3/16	1/8	1/16	1/8	7/16	3/16	1/4	9/16	1/4	3/16	1/4	1/8	9/16	1/4	1/8	1/4

Where "(CVN)" follows a shape or plate size designation, the material shall meet specified minimum notch toughness requirements. The Fabricator shall submit to the Director a procedure designed for positive identification of material through all phases of fabrication. No material shall be fabricated until the Director has approved the procedure.

For Subdrainage Details and vertical location of scuppers with respect to top of asphalt, see sht. 12.

For additional details, see sheet #12 & #13.

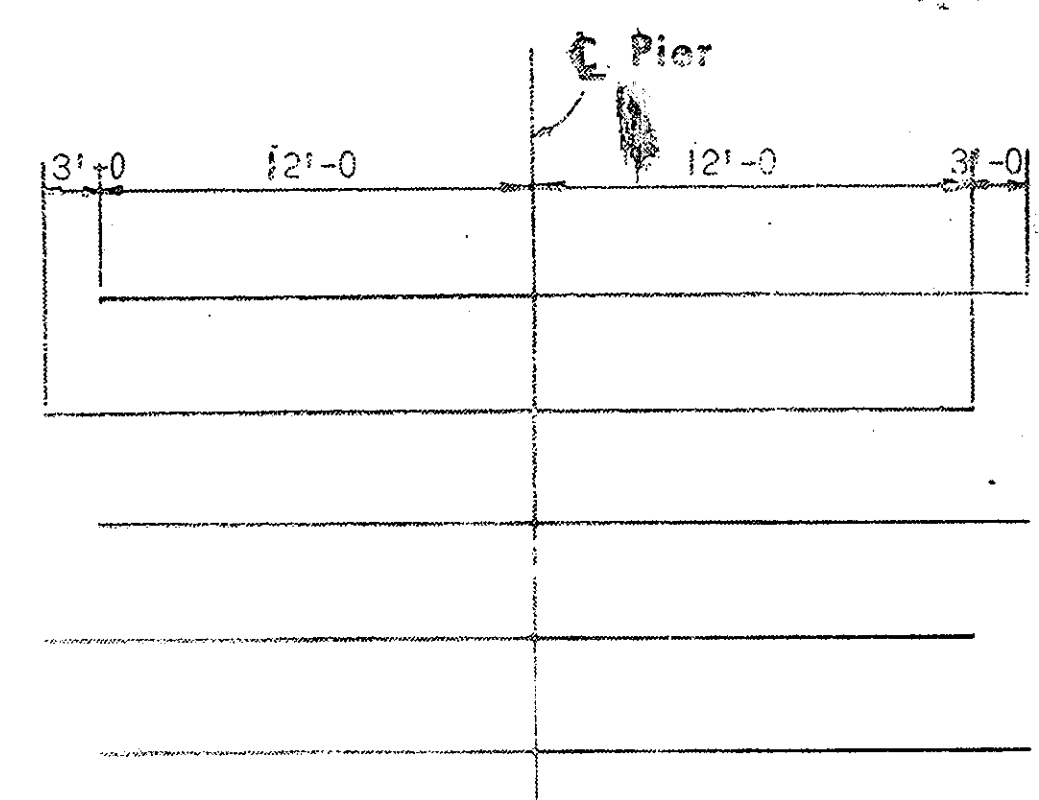
MICROFILMED
DEC 17 1984

276 Spaces @ 10" = 230'-0"
S701 Top & Bottom

SPD. NO.	STATE	PROJECT
2	OHIO	

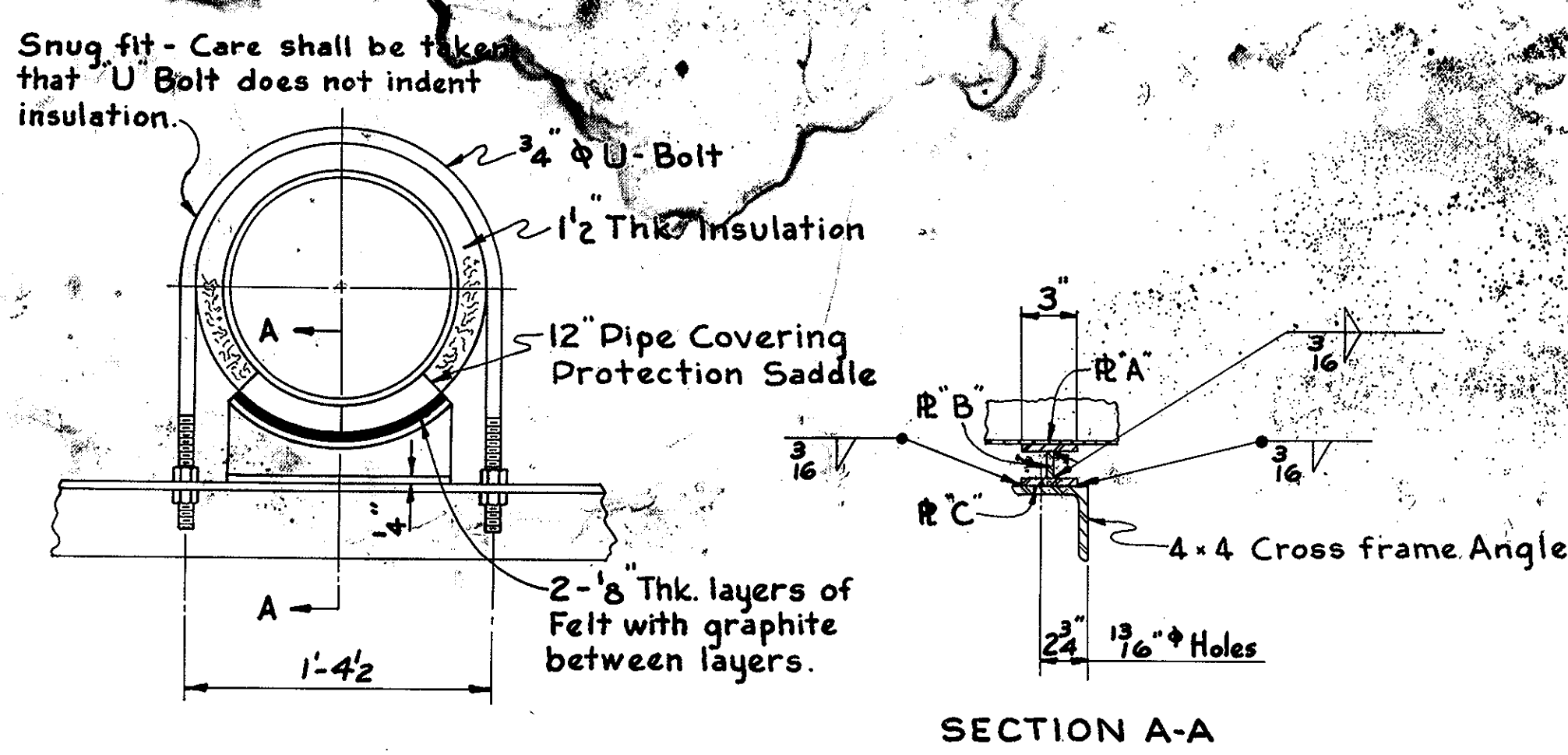
351
435

STA-30-12.47



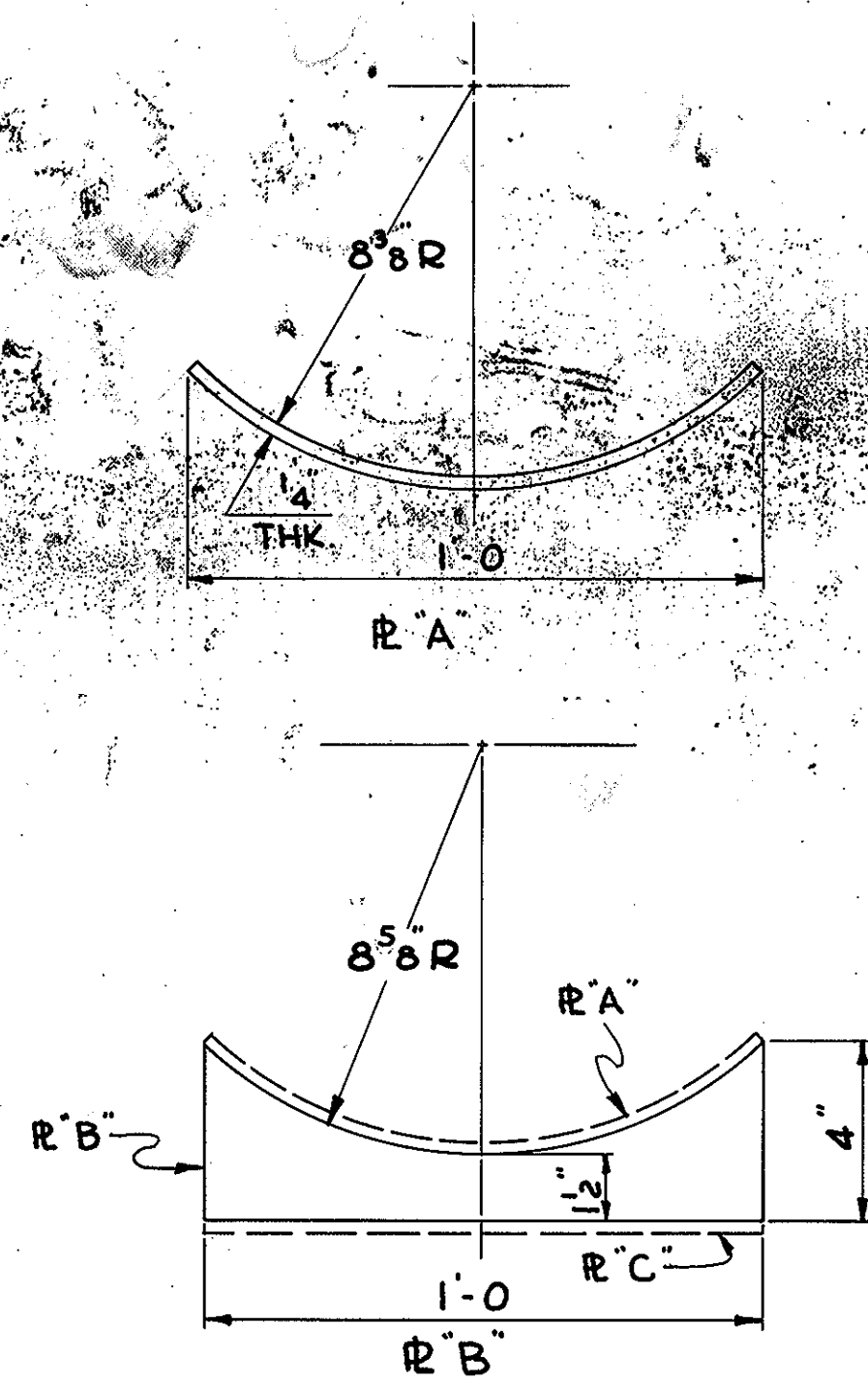
ALTERNATE STAGGER SYSTEM
OF S603 BARS OVER PIERS

PLAN OF DECK REINFORCING STEEL

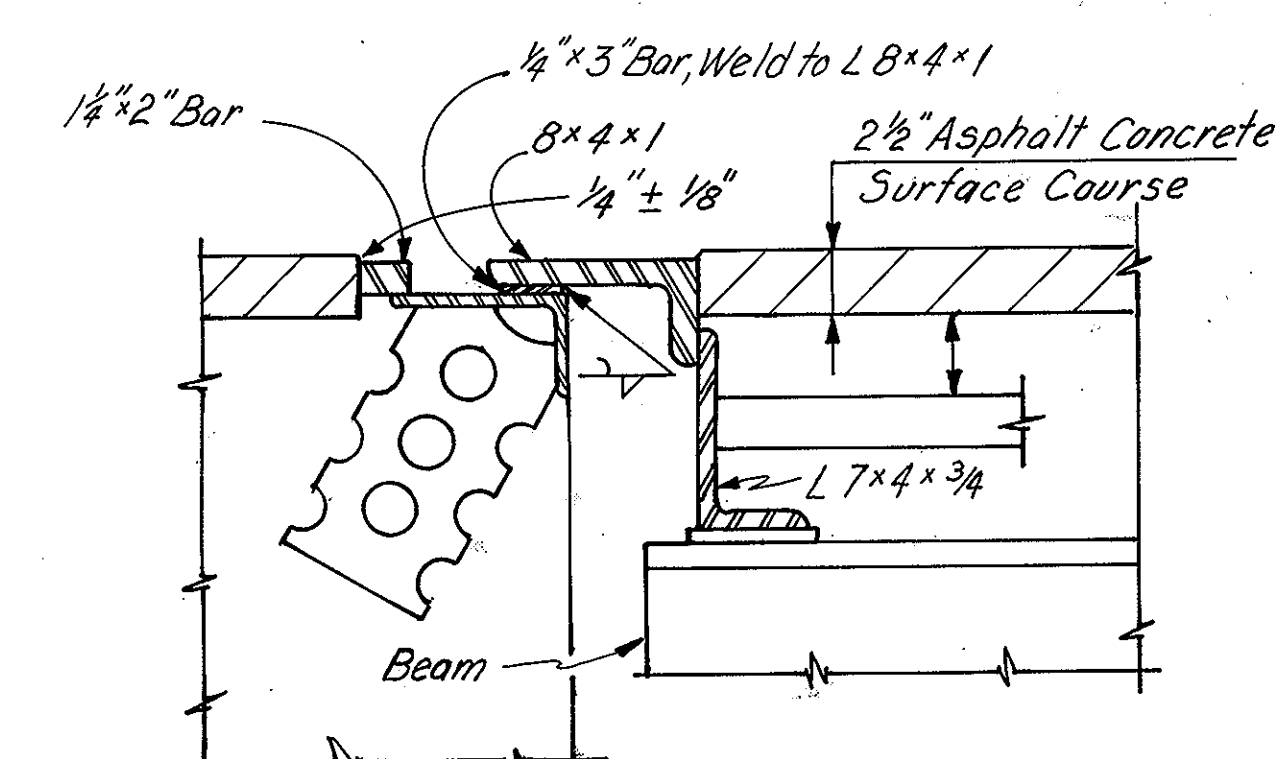


SECTION A-A

PIPE SUPPORT DETAIL

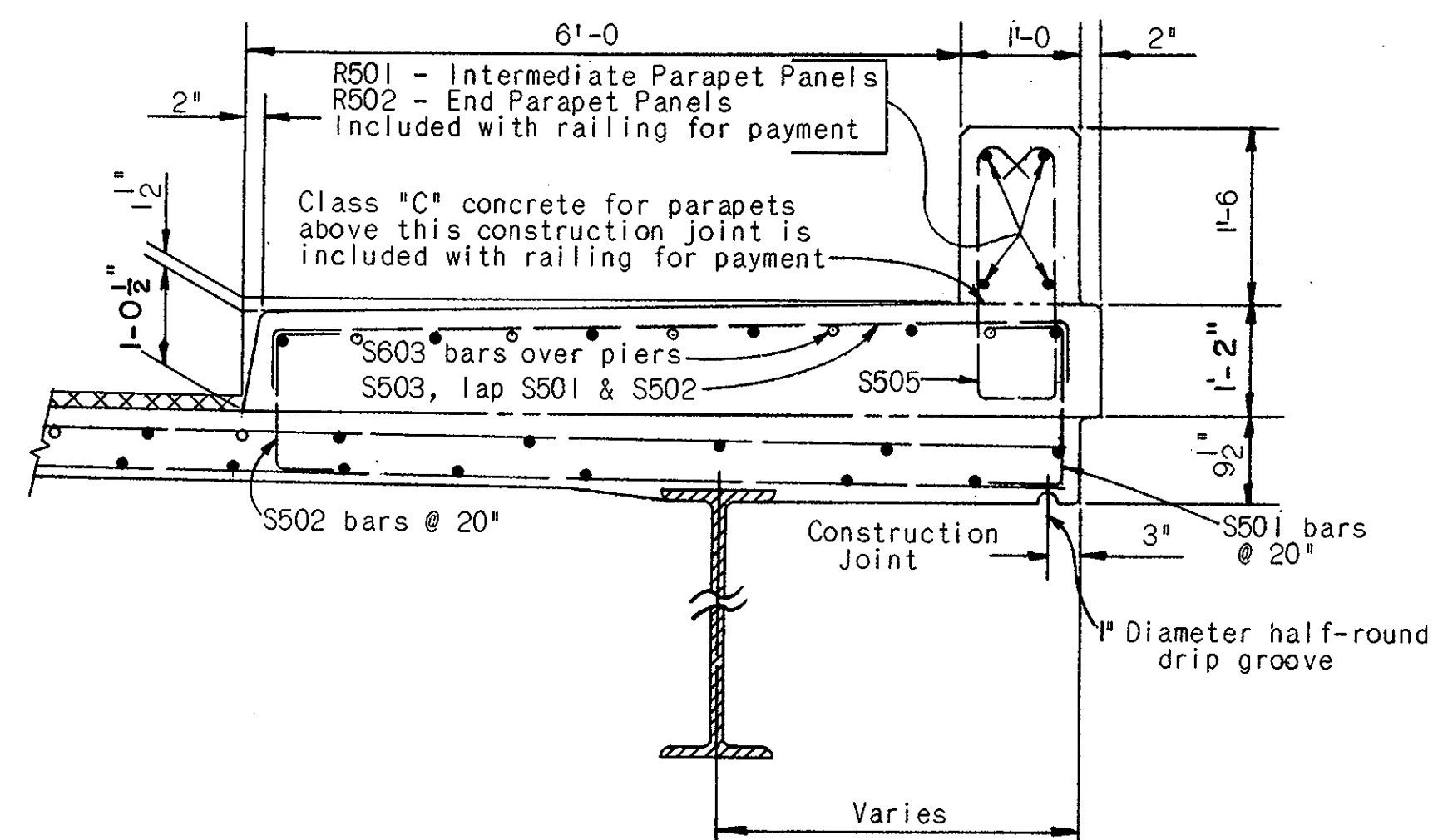


SPECIAL END CROSSFRAME DETAIL

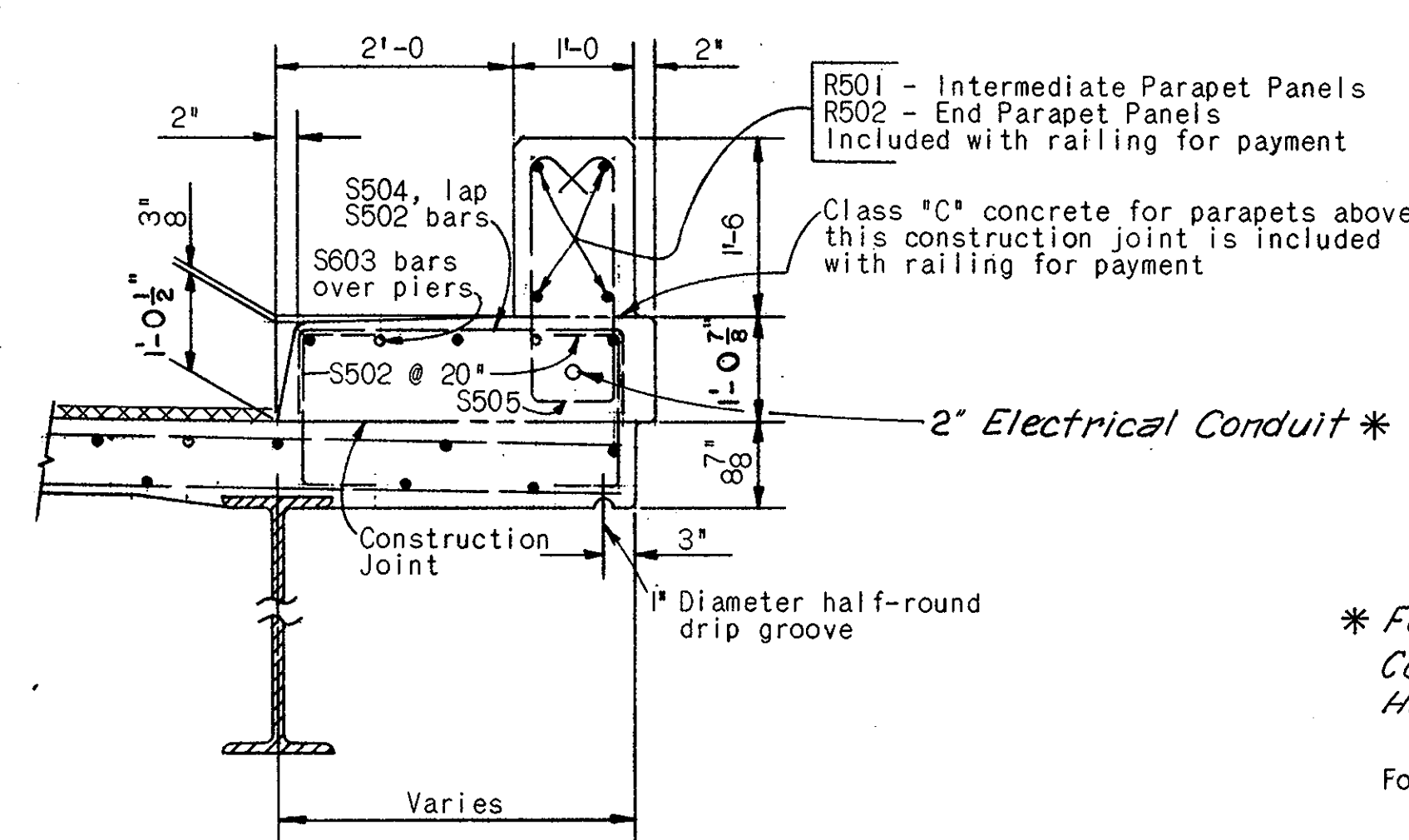


For additional end dam details
see Standard Drawing SD-1-69, Sheet 1 of 4

END DAM DETAILS



SIDEWALK AND PARAPET DETAILS



CURB & PARAPET DETAILS

* For Lighting Details, see Standard
Construction Dwg. HL-4, HL-5 &
HL-7.

For additional details see Sheet #11 & #13.

W.E.Q. BRIDGE 4
SHEET 12 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
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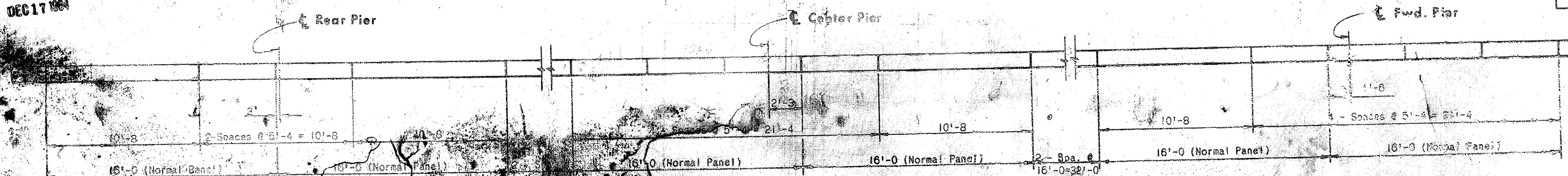
SUPERSTRUCTURE DETAILS

BRIDGE NO. STA-30-1392

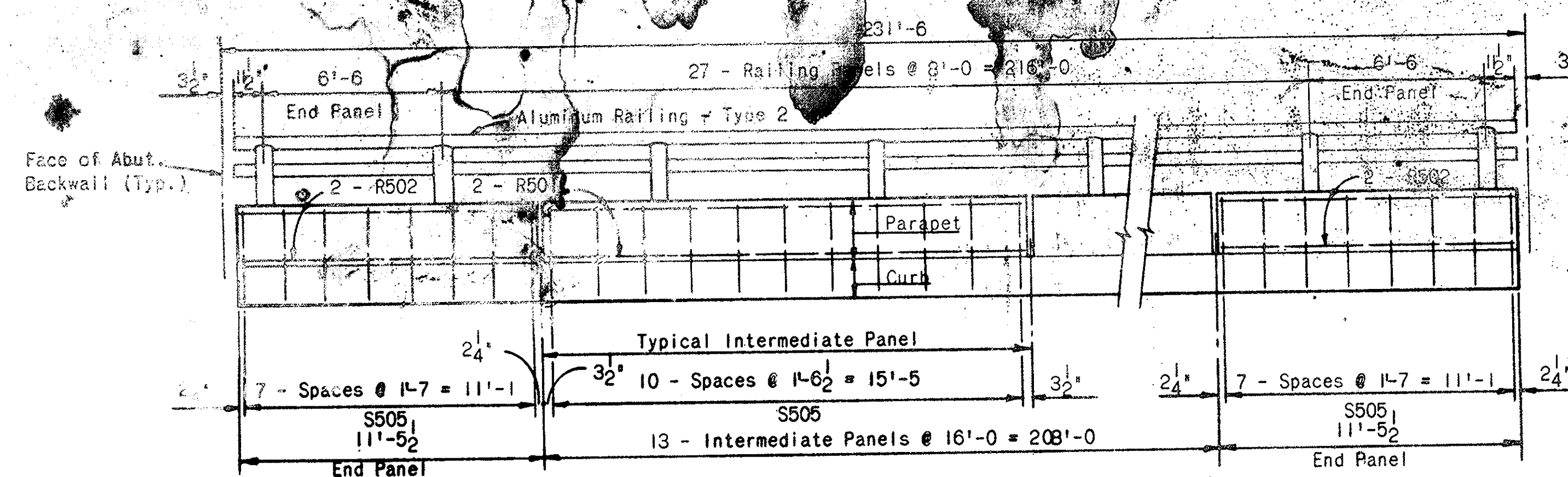
U.S.R. 30 under CLARENDON AVE.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	PMZ		wda	DLM	3/68	

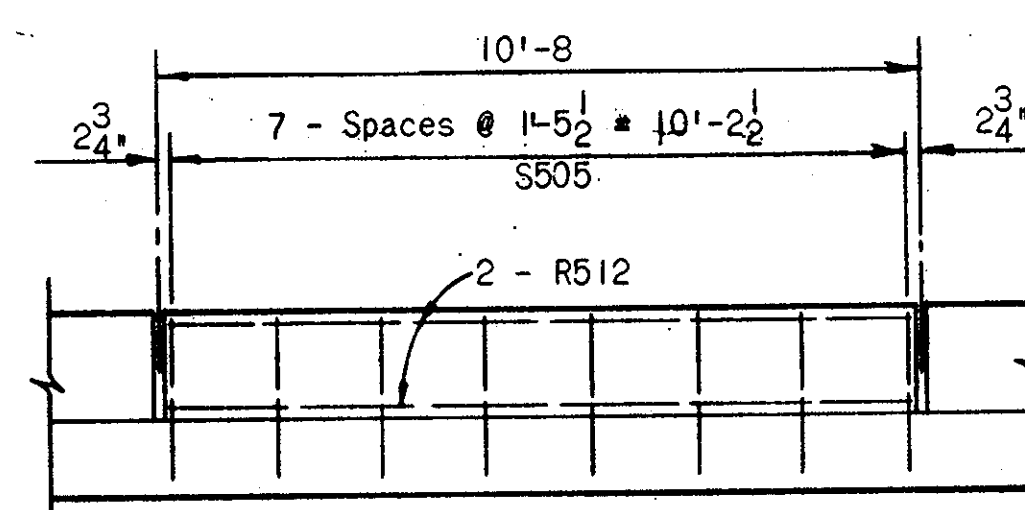
STA-30-12.47



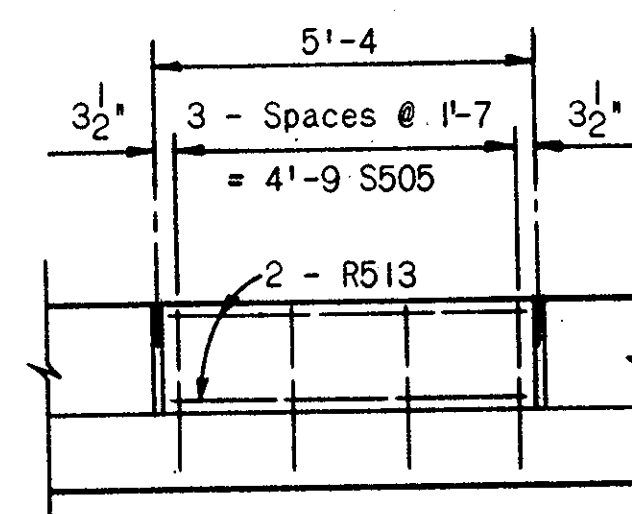
PLAN OF PARAPET REFLECTION JOINTS OVER PIERS



PARAPET AND RAILING DETAILS



TYPICAL 10'-8 PARAPET PANEL



TYPICAL 5'-4 PARAPET PANEL

For additional details, see
sheets 11 and 12

W.E.Q. BRIDGE 4
SHEET 13 OF 13

W. E. QUICKSALL AND ASSOCIATES, INC.
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SUPERSTRUCTURE DETAILS
BRIDGE NO. STA-30-1392

U.S.R. 30 Under CLARENDON AVE.

STARK COUNTY STA. 908+70.91

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVIS
	PMZ		wds	DLM	3/68	