

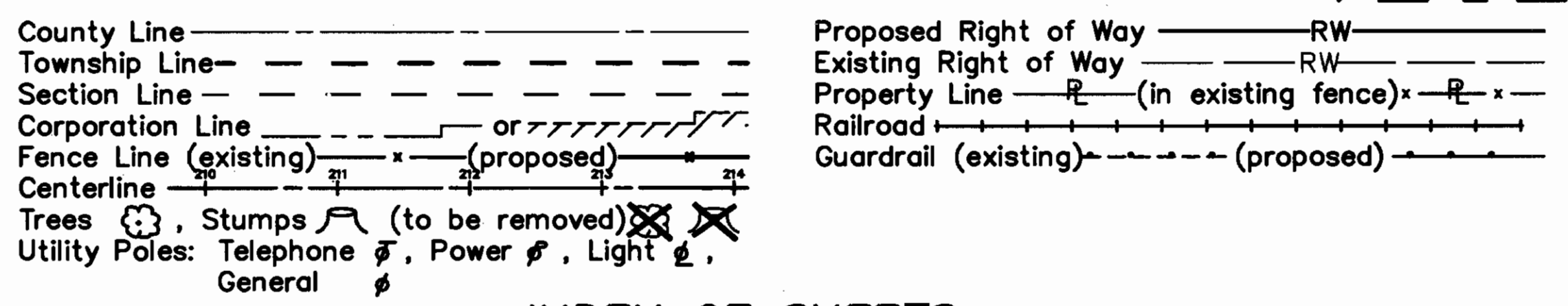
STATE OF OHIO DEPARTMENT OF TRANSPORTATION CUY-6-14.99 REHABILITATION OF VETERANS MEMORIAL BRIDGE CITY OF CLEVELAND CUYAHOGA COUNTY

FRWA REGION	STATE	PROJECT	1
5	OHIO	BHF - 83(13) STP - 83(13)	412

CUYAHOGA COUNTY
CUY - 6 - 14.99

IRRENT ADT (1994)	=	21,300
DESIGN YEAR ADT (2014)	=	24,100
DHV	=	2410
D	=	60%
T	=	4%
DESIGN SPEED	=	40 M.P.H.
POSTED SPEED	=	25 M.P.H.
FUNCTIONAL CLASSIFICATION	=	URBAN
DESIGN EXCEPTIONS	=	NONE REQUIRED

CONVENTIONAL SIGNS



INDEX OF SHEETS

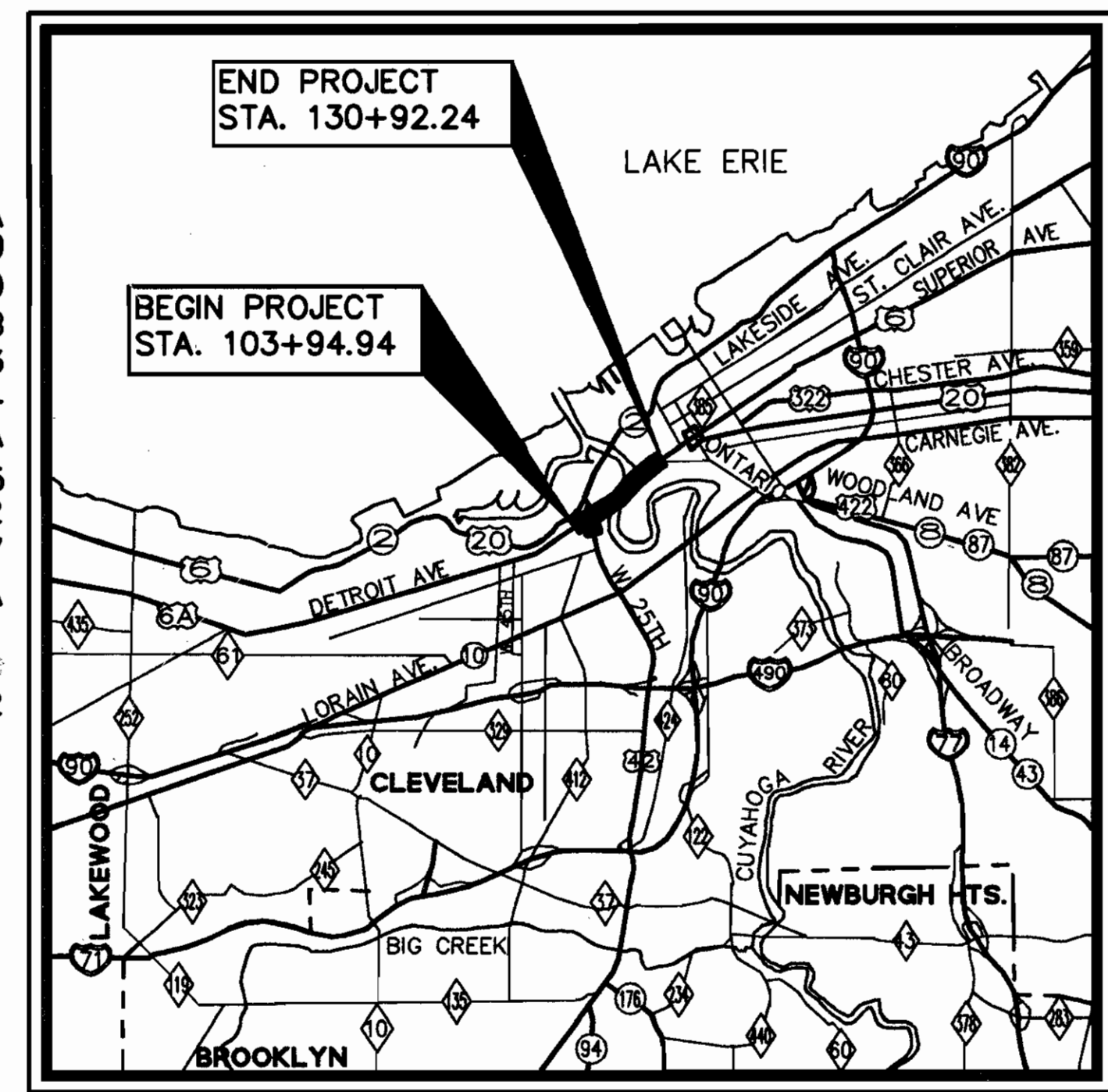
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LINE DATA

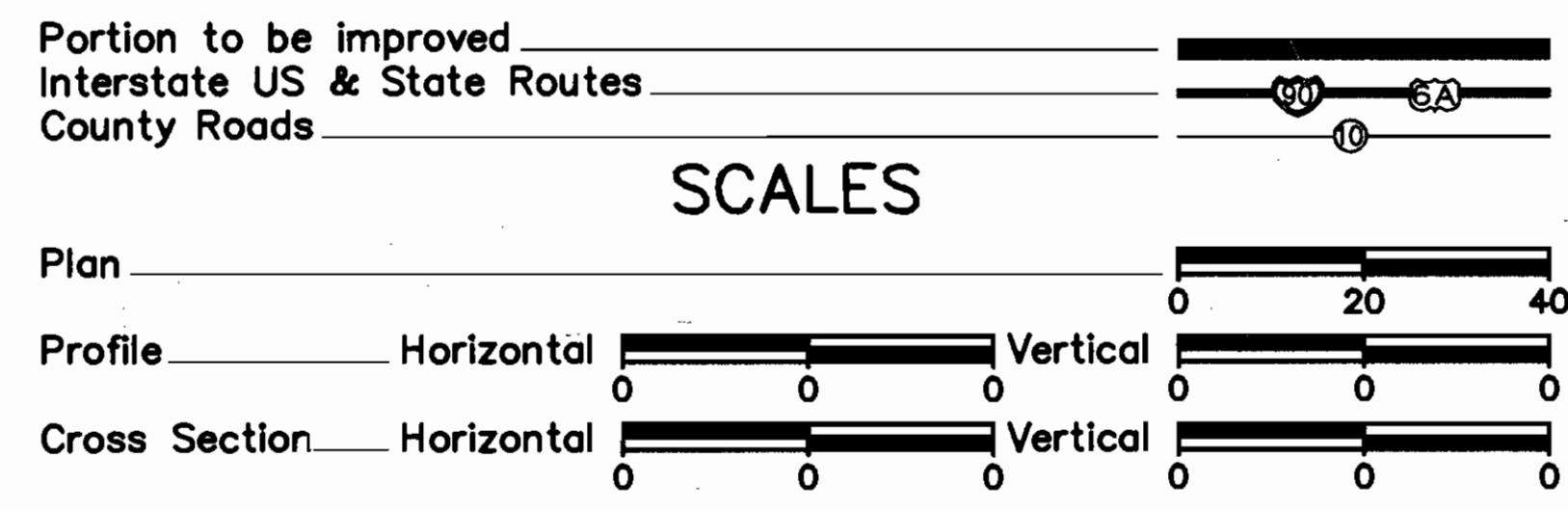
PROJECT LIMITS		
Detroit Avenue Sta. 103+94.94 to Sta. 130+92.24		2697.30 Lin. Ft.
Project Length		2697.30 Lin. Ft. or 0.511 Miles
ADD FOR WORK		
Detroit Avenue Sta. 93+00.00 to Sta. 103+94.94		1094.94 Lin. Ft.
West 25th Street Sta. 14+27.00 to Sta. 22+63.00		836.00 Lin. Ft.
West 49th Street Sta. 6+80 to Sta. 0+00		680.00 Lin. Ft.
West 45th Street Sta. 2+25 to Sta. 13+06		1081.00 Lin. Ft.
Lorain Avenue Sta. 84+35 to Sta. 89+75		540.00 Lin. Ft.
Sta. 90+75 to Sta. 91+75		100.00 Lin. Ft.
Sta. 93+60 to Sta. 130+88		3728.00 Lin. Ft.
West 6th Street Sta. 3+58 to Sta. 16+74		1316.00 Lin. Ft.
West 3rd Street Sta. 3+49 to Sta. 16+65		1316.00 Lin. Ft.
Ontario Avenue Sta. 3+39 to Sta. 16+63		1324.00 Lin. Ft.
Lakeside Avenue Sta. 5+00 to Sta. 16+96		1196.00 Lin. Ft.

TOTAL LENGTH OF WORK 15909.24 LIN.FT. OR 3.013 MILES

Plans Prepared By:
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**



LOCATION MAP



UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG

CALL 800-362-2764 (Toll Free)

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CALLED DIRECTLY

SUPPLEMENTAL SPECIFICATIONS

802	4-13-90	820	3-18-92
852	7-30-93		
910	5-20-91		
927	10-19-81		
931	3-18-92		
933	2-10-87		
944	5-2-94		
940	6-10-87		
942	3-18-92		

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-1.1	2-21-92	MC-6	1-30-84	MT-105.11	7-1-92	TC-41.41	8-2-79	TC-85.20	1-20-84	HL-30.32	5-1-87
BP-1.2	2-21-92	MC-9.2	5-6-91	TC-16.20	1-20-84	TC-41.50	3-26-79	EXJ-4-87	1-20-84	HL-40.10	5-1-87
BP-2.1	2-21-92	MC-11	8-1-78	TC-17.10	1-20-84	TC-42.10	8-19-77	GR-1.1	5-6-91	HL-50.21	5-1-87
BP-2.2	2-21-92	MH-1	12-18-84	TC-21.20	9-1-92	TC-42.20	3-26-79	GR-1.2	10-30-92	HL-60.11	5-1-87
BP-2.5	2-21-92	MH-3	12-18-84	TC-22.10	9-1-92	TC-51.10	1-20-84	HL-10.11	5-1-87	HL-60.31	5-1-87
BP-3.1	2-21-92	MH-5	6-12-75	TC-22.20	9-1-92	TC-51.11	1-20-84	HL-10.12	5-1-87		
BP-4.1	2-21-92	MT-95.30	10-10-88	TC-31.21	9-1-92	TC-52.10	4-3-79	HL-10.13	5-1-87		
BP-5.1	2-21-92	MT-95.31	10-10-88	TC-32.10	9-1-92	TC-52.20	4-3-79	HL-20.11	5-1-87		
BP-7.1	10-30-92	MT-95.32	8-25-89	TC-32.11	9-1-92	TC-71.10	9-10-91	HL-20.14	5-1-87		
CB-2-3 & 2-4	5-1-79	MT-95.41	10-1-92	TC-35.10	8-29-84	TC-81.20	1-20-84	HL-20.31	5-1-87		
CB-3	5-1-79	MT-99.10	11-14-86	TC-41.10	8-29-84	TC-82.10	8-29-84	HL-30.11	5-1-87		
		MT-101.60	7-1-92	TC-41.20	3-26-79	TC-83.20	1-20-84	HL-30.22	5-1-87		
MC-4	7-26-76	MT-105.10	7-1-92	TC-41.40	6-18-79	TC-85.10	1-20-84	HL-30.31	5-1-87		

BHF-83(13)
STP-83(13)
STP-83(33)

1993 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as indicated on sheet 61.

APPROVED: *Byron J. Hodum*
DATE: 7-1-94 DISTRICT DEPUTY DIRECTOR

APPROVED: *B. D. Hinkelmann/wtc*
DATE: 7/14/94 ENGINEER, BUREAU OF BRIDGES AND STRUCTURAL DESIGN

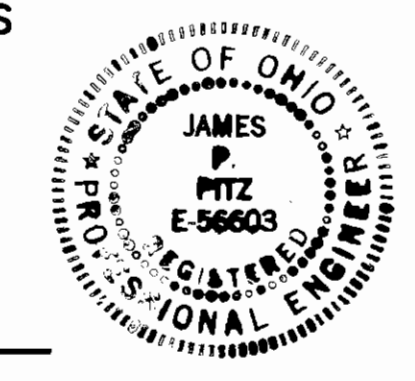
APPROVED: *Christopher L. Rummel*
DATE: 7-29-94 DEPUTY DIRECTOR, DESIGN

APPROVED: *James P. Pitz*
DATE: 7-29-94 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

James P. Pitz
James P. Pitz



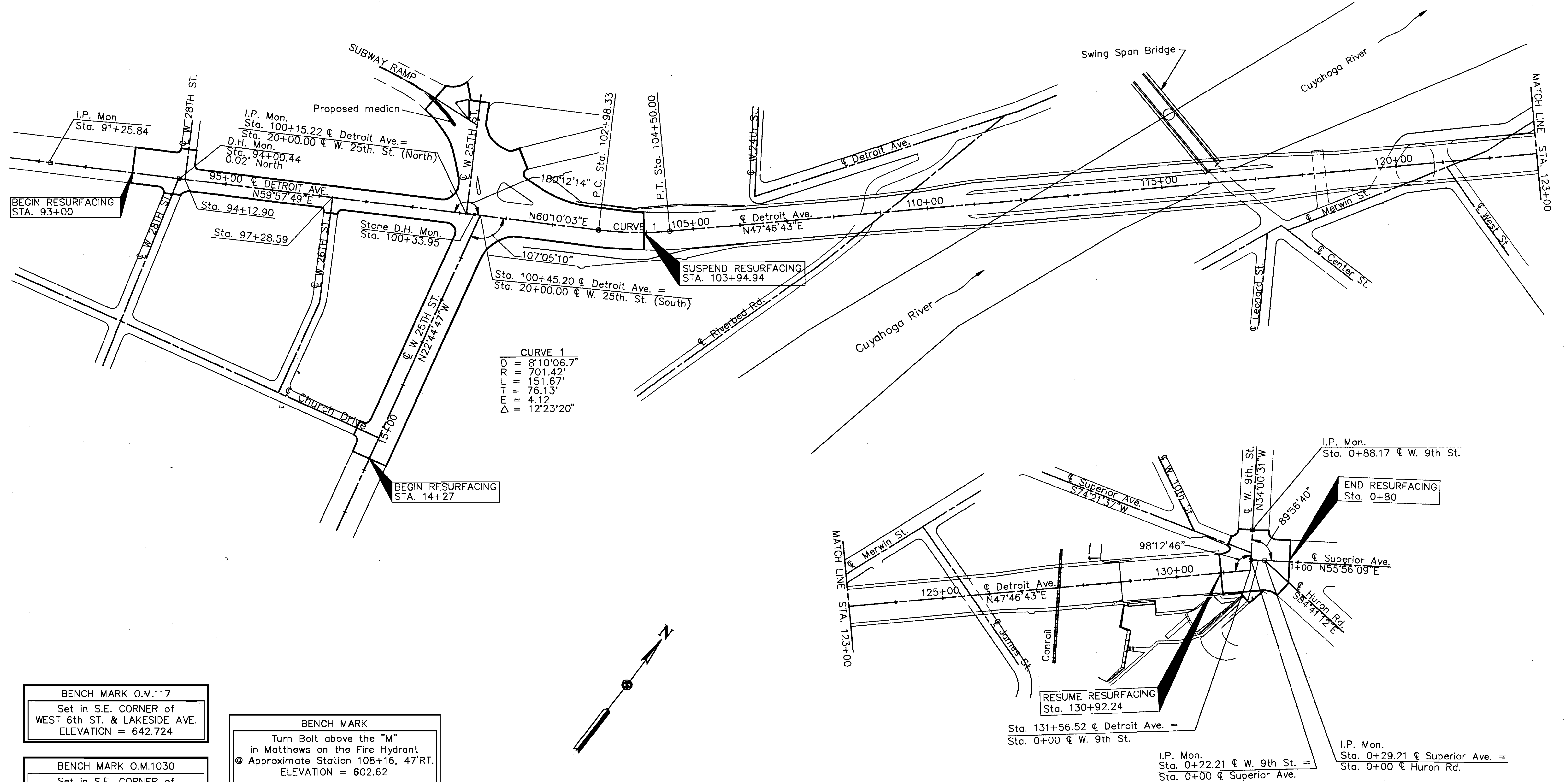
PID 5561

SCHEMATIC GEOMETRIC PLAN

FHWA REGION	STATE	PROJECT	
5	OHIO		

2
412

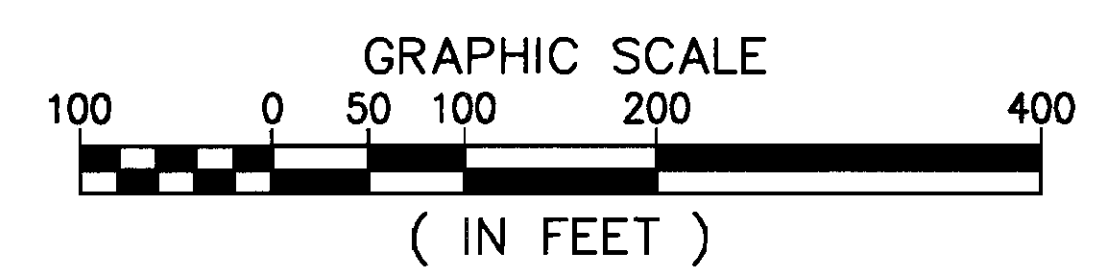
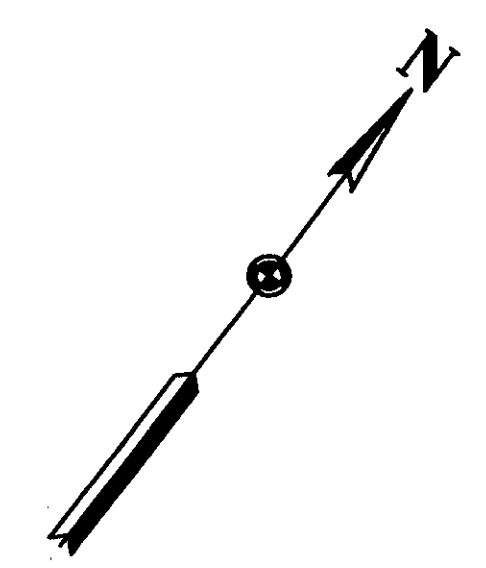
CUYAHOGA COUNTY
CUY-6-14.99



BENCH MARK O.M.117
Set in S.E. CORNER of
WEST 6th ST. & LAKESIDE AVE.
ELEVATION = 642.724

BENCH MARK O.M.1030
Set in S.E. CORNER of
ST. CLAIR AVE. & WEST 6th ST.
ELEVATION = 649.959

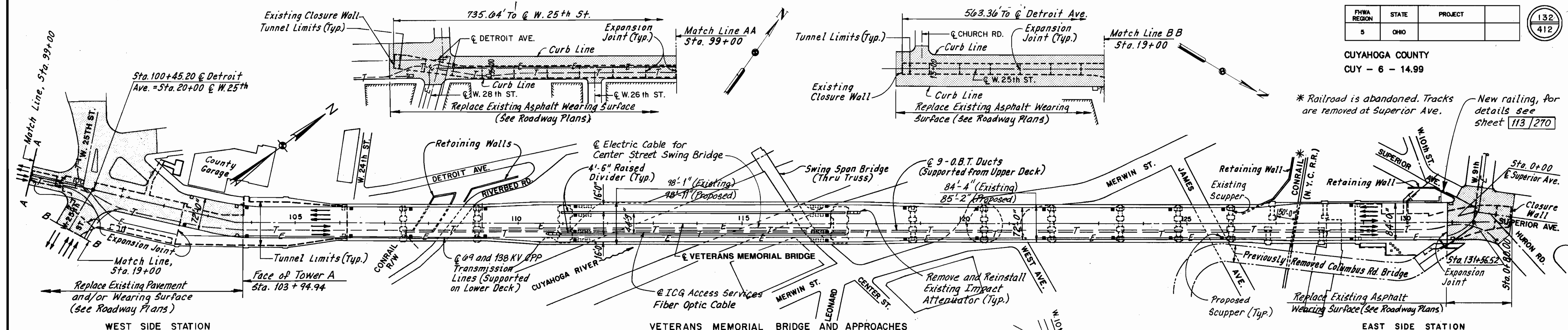
BENCH MARK
Turn Bolt above the "M"
in Matthews on the Fire Hydrant
@ Approximate Station 108+16, 47°RT.
ELEVATION = 602.62



HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**
MADE BY: DGD, DATE: 9/92
DRAWN BY: DJF, DATE: 9/92
CHECKED BY: PF, DATE: 9/92
SCALE: AS SHOWN
SCHEM.DWG

CUYAHOGA COUNTY
CUY - 6 - 14.99

* Railroad is abandoned. Tracks are removed at Superior Ave.
New railing, for details see sheet 113/270

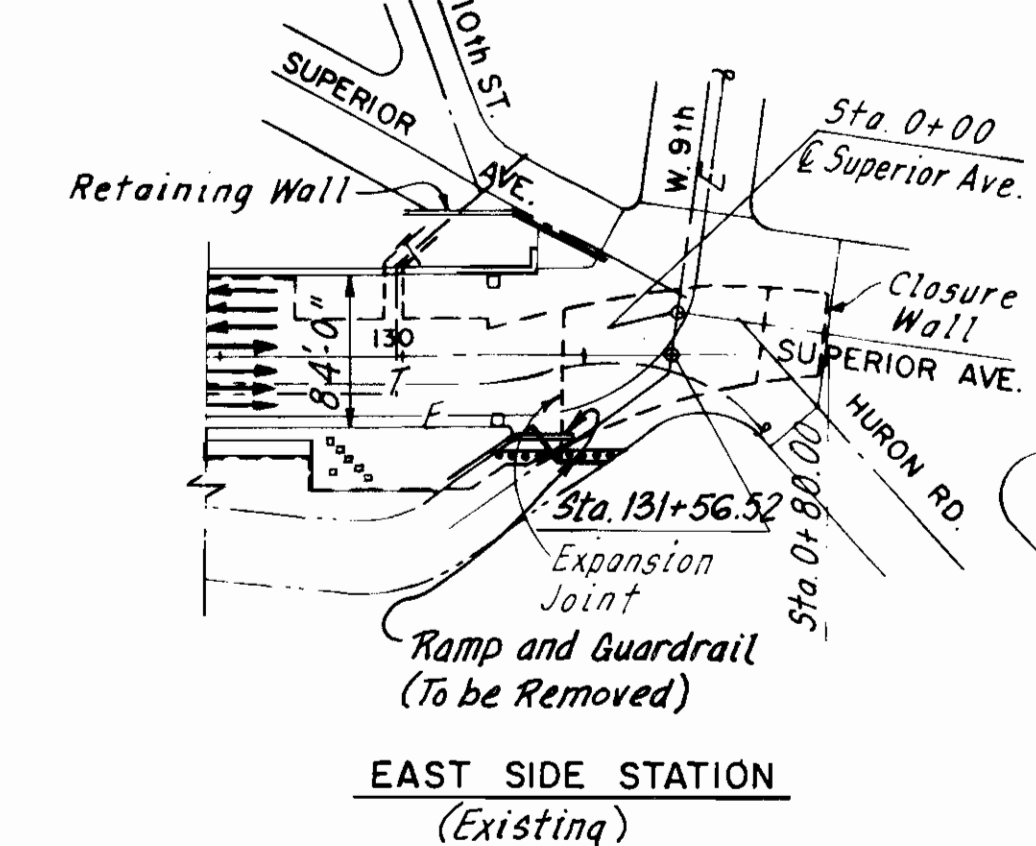


WEST SIDE STATION

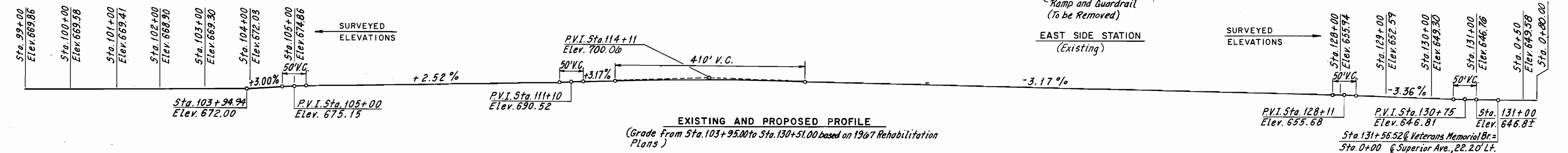
VETERANS MEMORIAL BRIDGE AND APPROACHES

EAST SIDE STATION

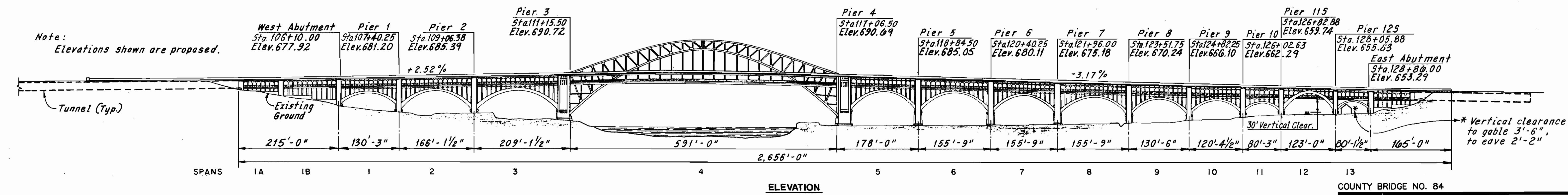
PROPOSED PLAN
(Existing Similar Except as Noted)



EAST SIDE STATION
(Existing)



EXISTING AND PROPOSED PROFILE
(Grade from Sta. 103+95.00 to Sta. 130+51.00 based on 1967 Rehabilitation Plans)



COUNTY BRIDGE NO. 84

EXISTING STRUCTURE		PROPOSED STRUCTURE	
Superstructure Type:	Abutments: Reinforced deep concrete abutments with arch ribs, walls and columns.	The existing structure data shall be maintained except as follows:	
Main Span:	Spans: Main: 591'-0"	Loadings:	
Approach Spans:	West Approach: 130'-3", 166'-1-1/2" and 209'-1-1/2"	Upper Deck:	HS20-44 Case II (Span 4 Truss lower chord overstressed 6.3% maximum with 30 psf future wearing surface)
Tunnels:	East Approach: 178'-0", 3 @ 155'-9", 130'-6", 120'-4-1/2", 80'-3", 123'-0" and 80'-1-1/2"	Lower Deck:	One 8 ton vehicle with 10% impact, 100 psf, or a 6 ton mailift with a 136.5% increase in allowable stress, whichever controls.
Substructure Type:	Roadway: Main: 44'-5" F/F of 4'-6" medians with two adjacent roadways 16'-0" F/F of curbs, and two 5'-0" sidewalks.	Wearing Course:	1" monolithic concrete wearing surface
Piers:	Approaches: Varies 72'-0" min. to 85'-9" max. F/F of curbs and two 5'-0" sidewalks.	Year Built:	1917 (Rehabilitated 1967, 1994)
	Skew: None		
	Alignment: Tangent		
	Upper Deck: Slab: CF2000. Other Members: S-20-60 (lower chord overstressed 14.8% max.).		
	Lower Deck: 6 tracks each with two 60 ton cars.		
	Approach Slabs: None		
	Superelevation: Normal crown - 3/16" per ft.		
	Year Built: 1917 (Rehabilitated 1967)		
	Structure File Number: 1800932		

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

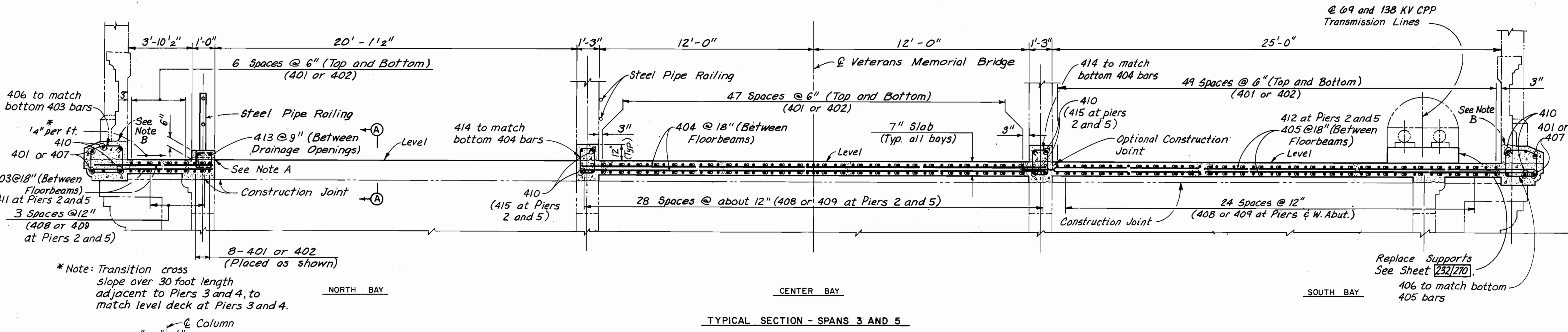
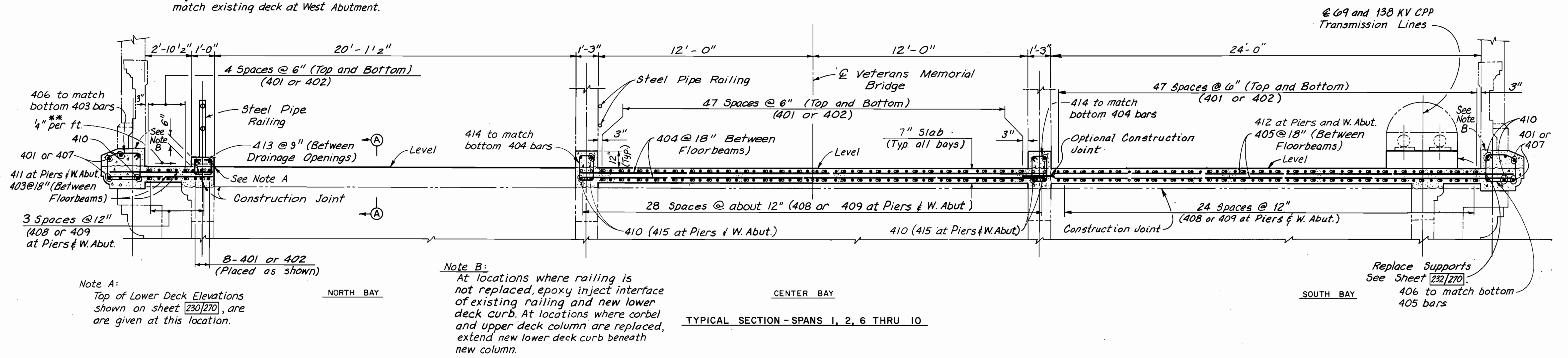
SITE PLAN
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN F.S.J.	TRACED C.P.	CHECKED R.A.S.	REVIEWED C.A.B.	REVISED
DATE 5/20/88	DATE 5/31/88	DATE 9/21/88	DATE 9/23/88	

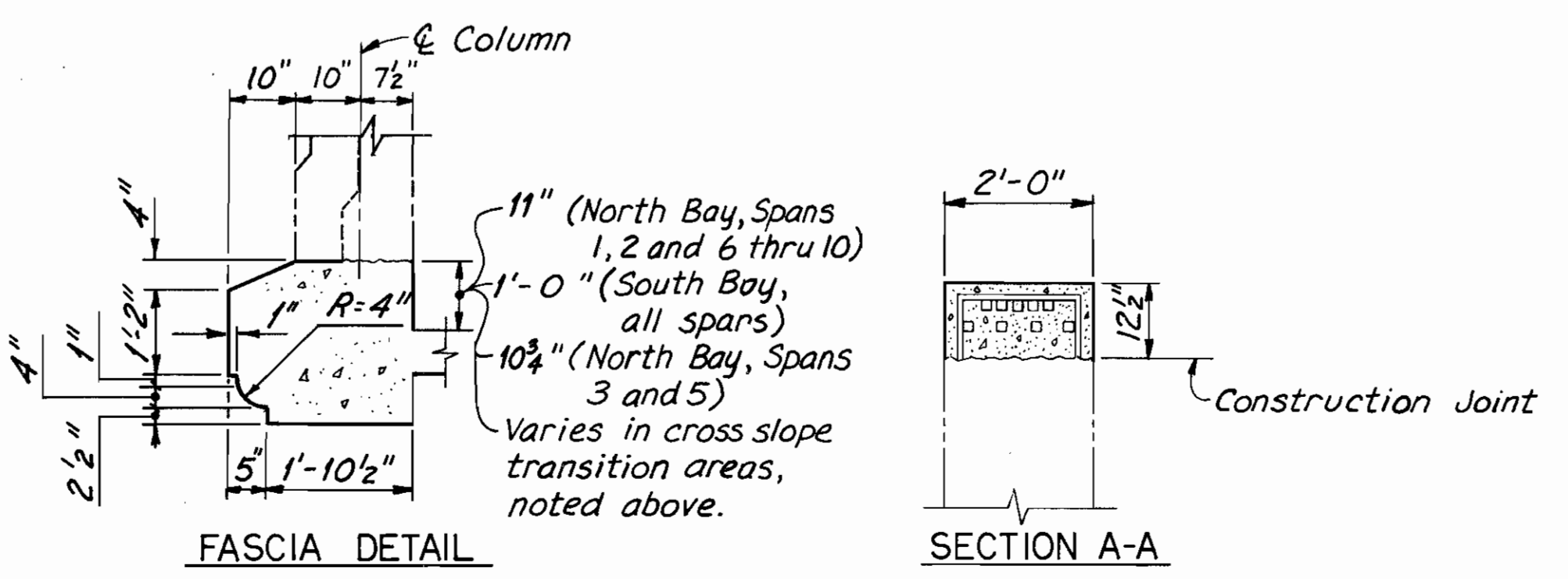
SHEET 1A / 270

CUYAHOGA COUNTY
CUY - 6 - 14.99

*** Note: Transition cross slope over 30 foot length of Span 1 adjacent to West Abutment to match existing deck at West Abutment.



* Note: Transition cross slope over 30 foot length adjacent to Piers 3 and 4, to match level deck at Piers 3 and 4.



ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

SPAN 1	-	1LES
SPAN 2	-	2LES
SPAN 3	-	3LES
SPAN 5	-	5LES
SPAN 6	-	6LES
SPAN 7	-	7LES
SPAN 8	-	8LES
SPAN 9	-	9LES
SPAN 10	-	10LES

NOTES:
THE REQUIRED REINFORCING BAR LAP LENGTH SHALL BE 2'-2" MINIMUM.
FOR SECTIONS A-A AND B-B AND TYPICAL LONGITUDINAL DECK SECTIONS, SEE SHEET - 97/270
----- INDICATES EXISTING STRUCTURE

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

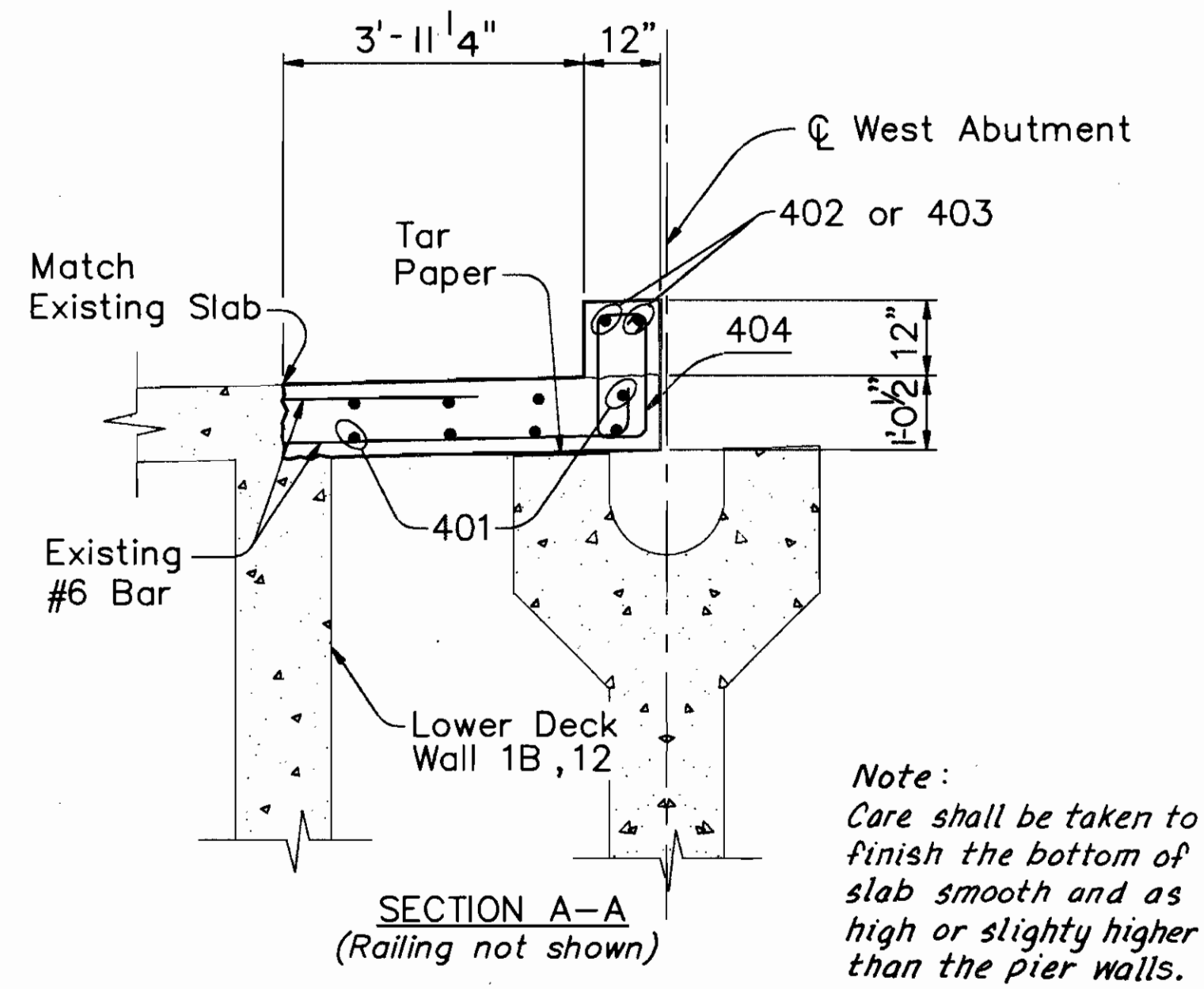
HNTB

LOWER DECK SECTIONS
SPANS 1 THRU 3 AND 5 THRU 10
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

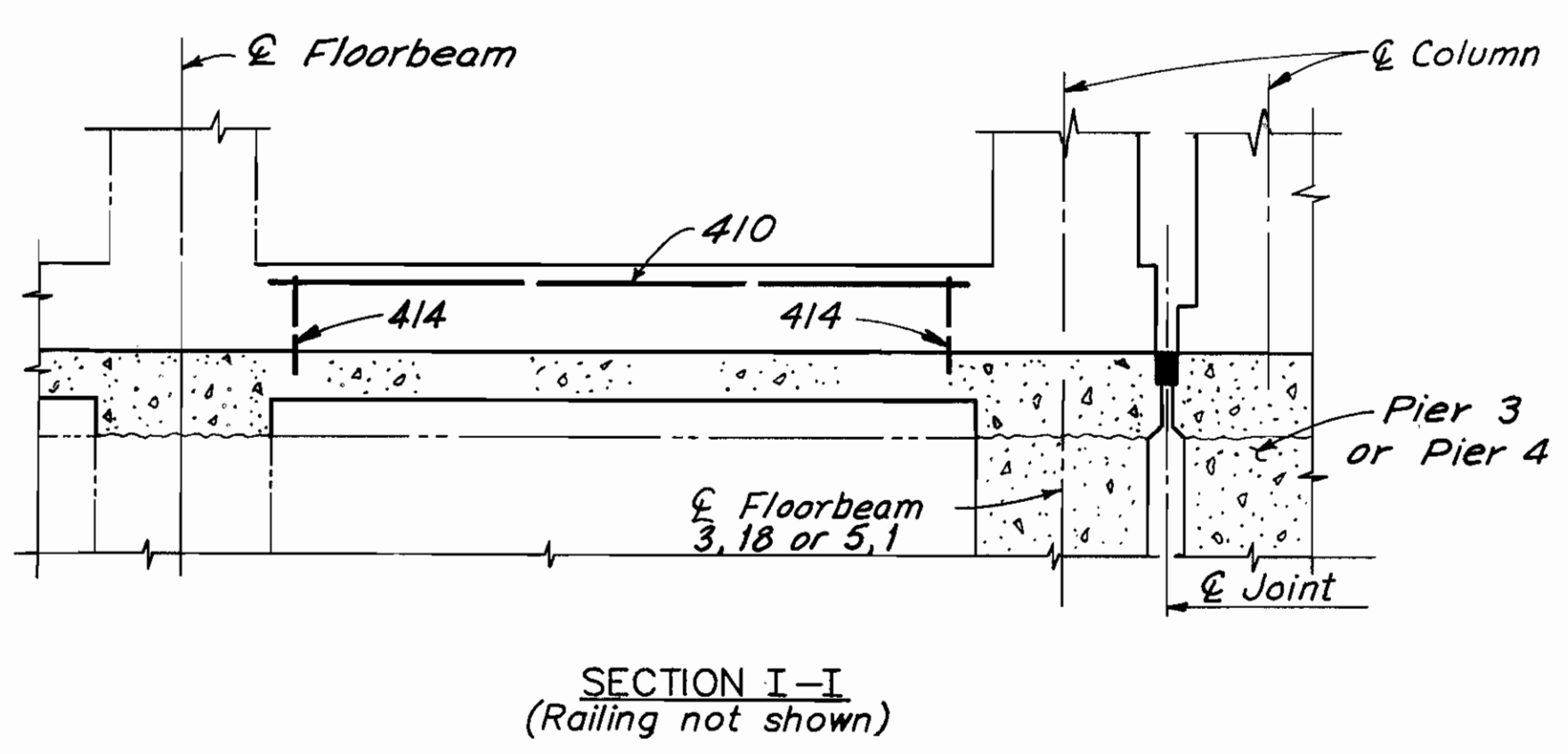
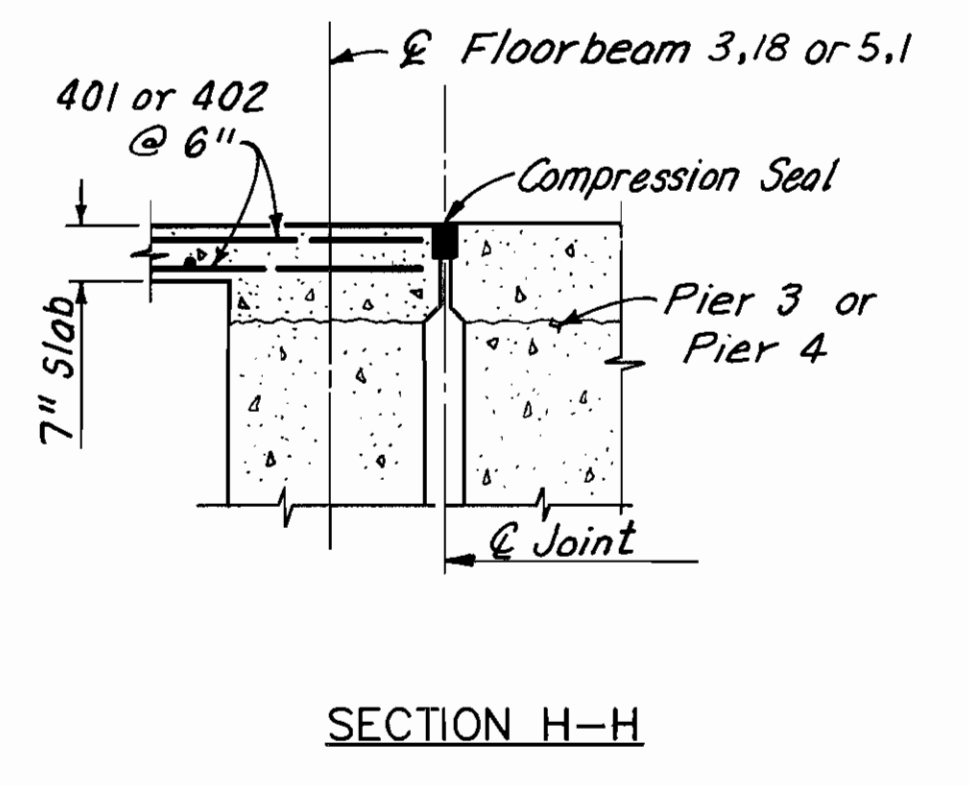
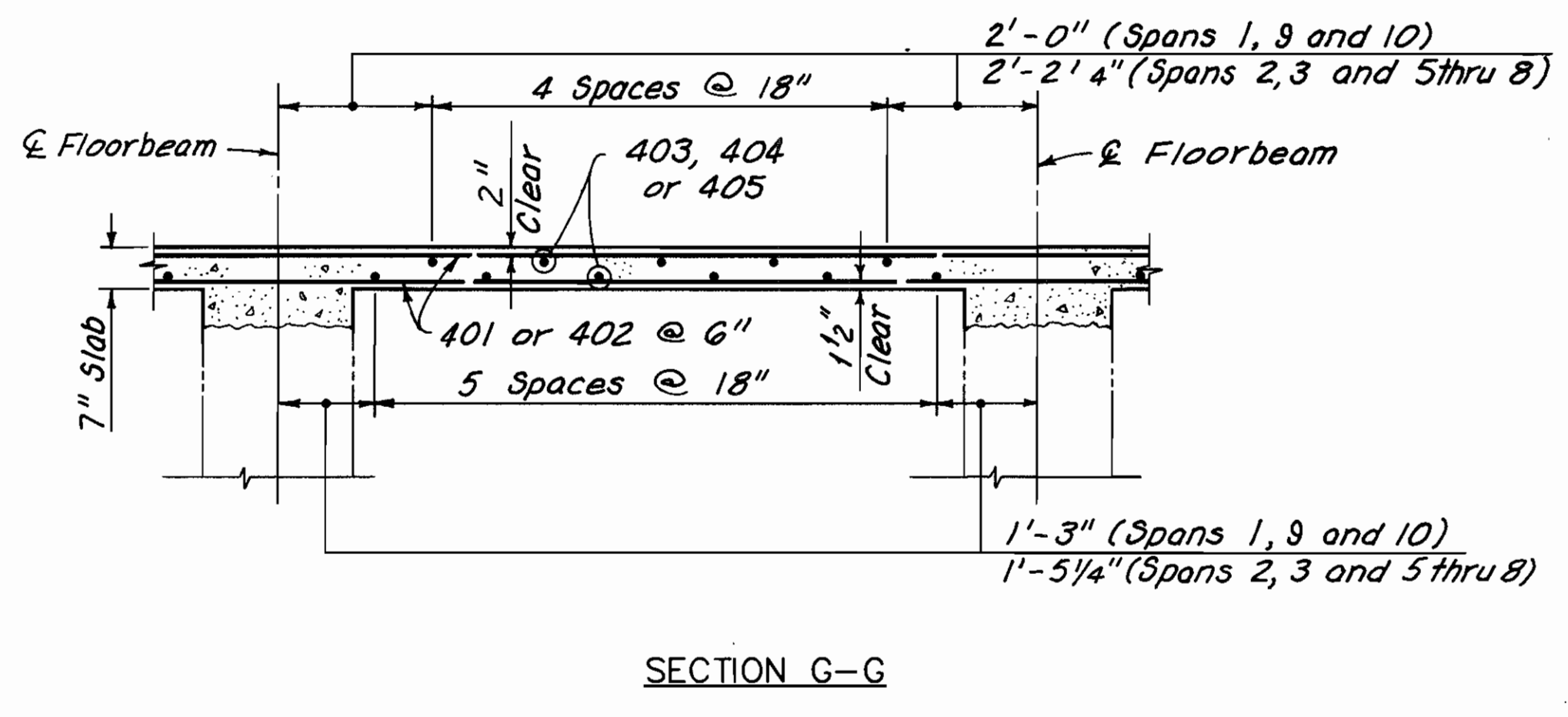
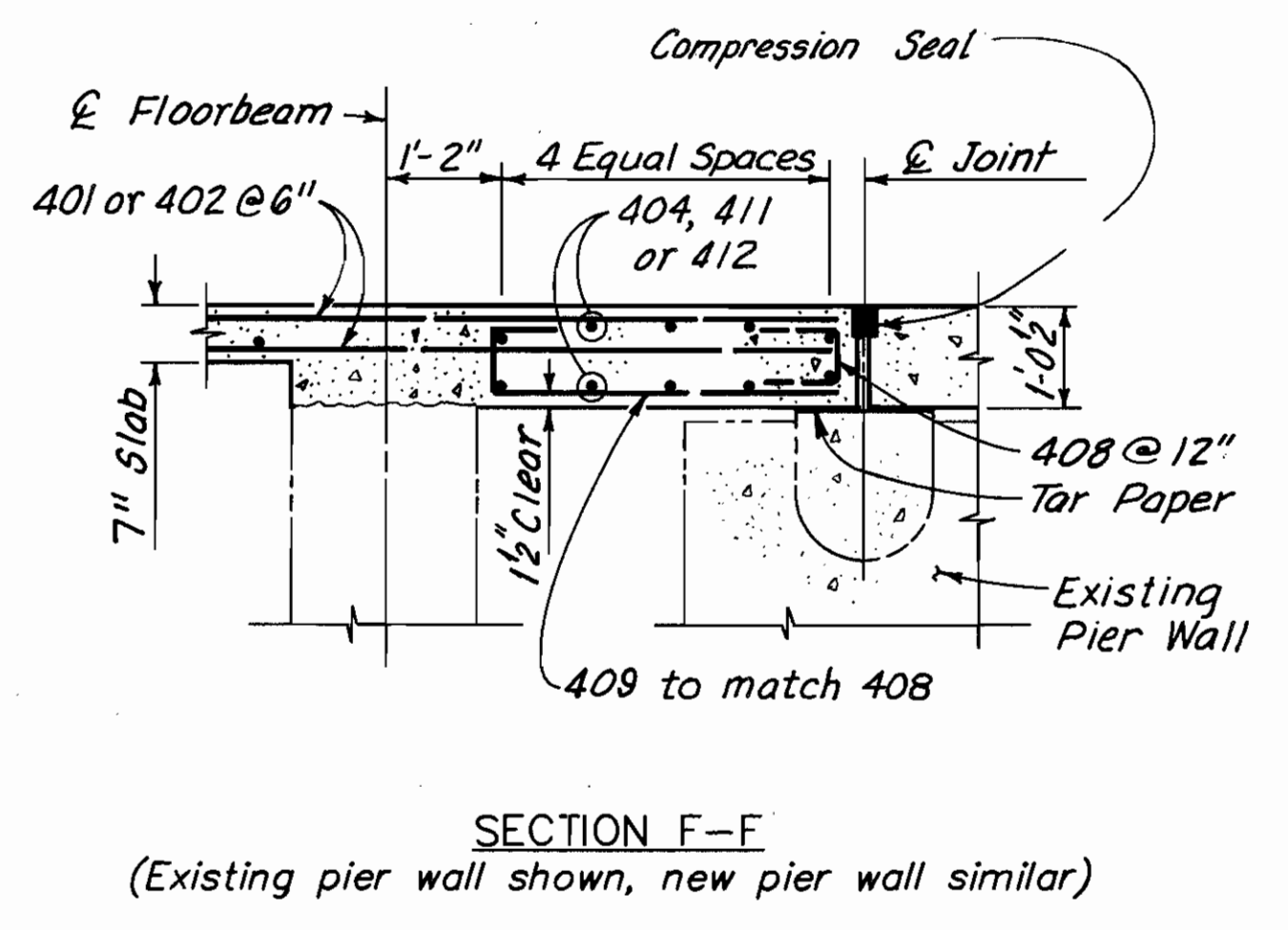
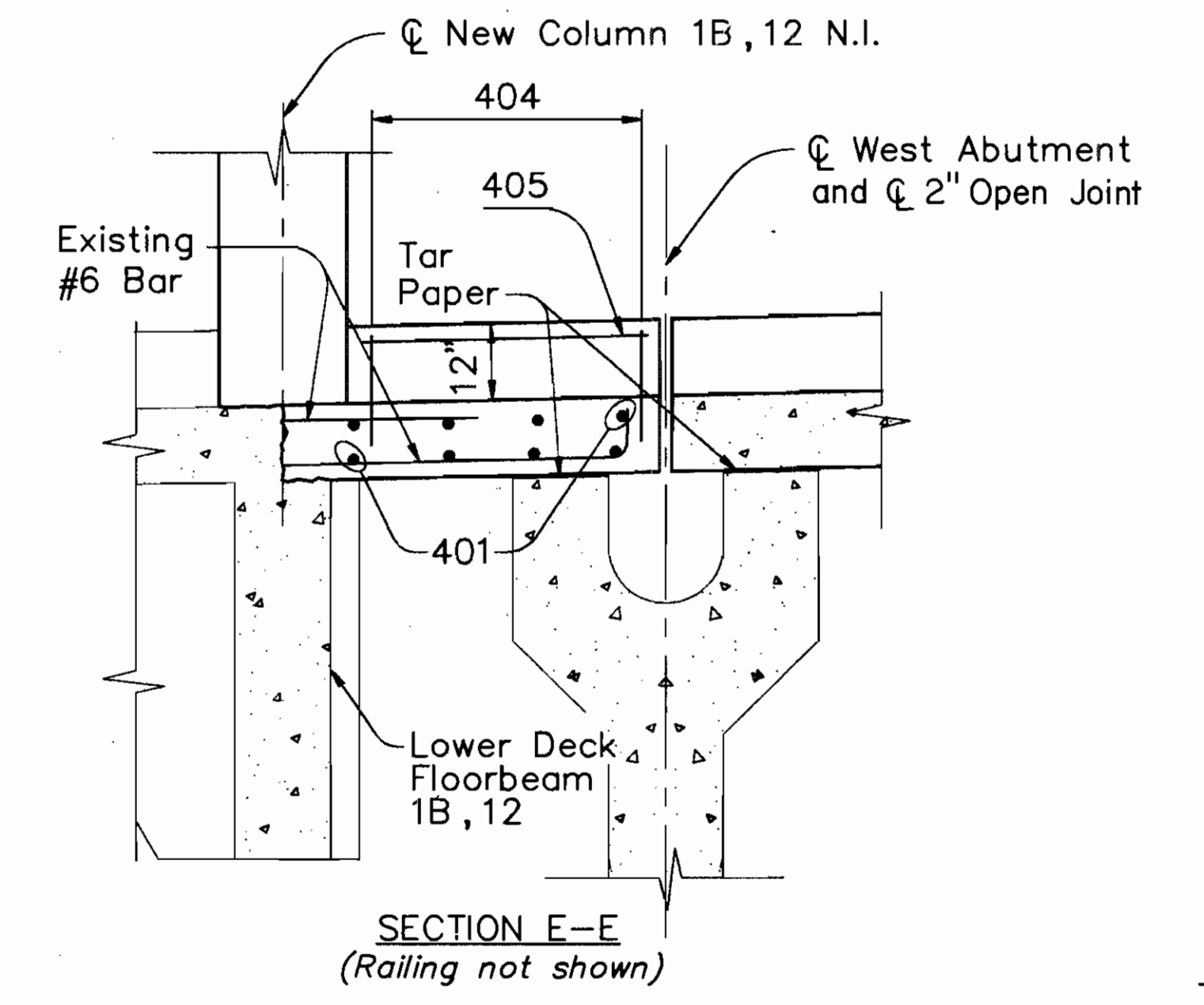
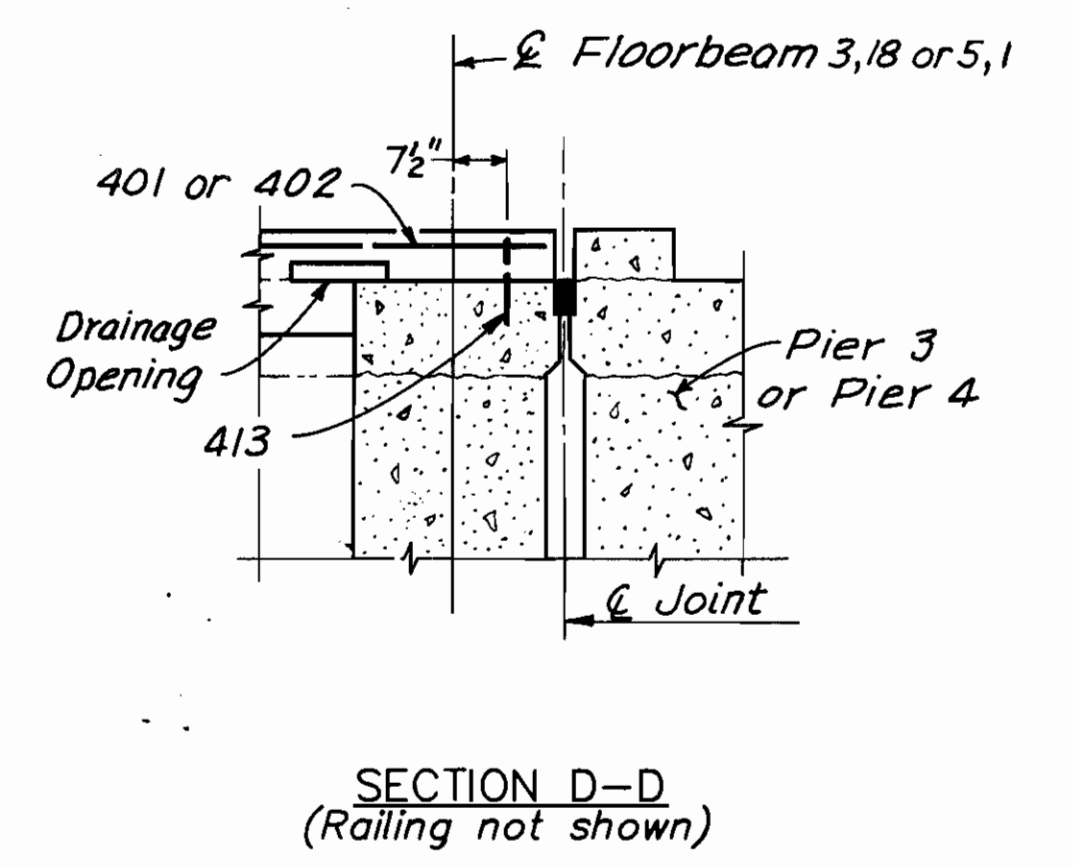
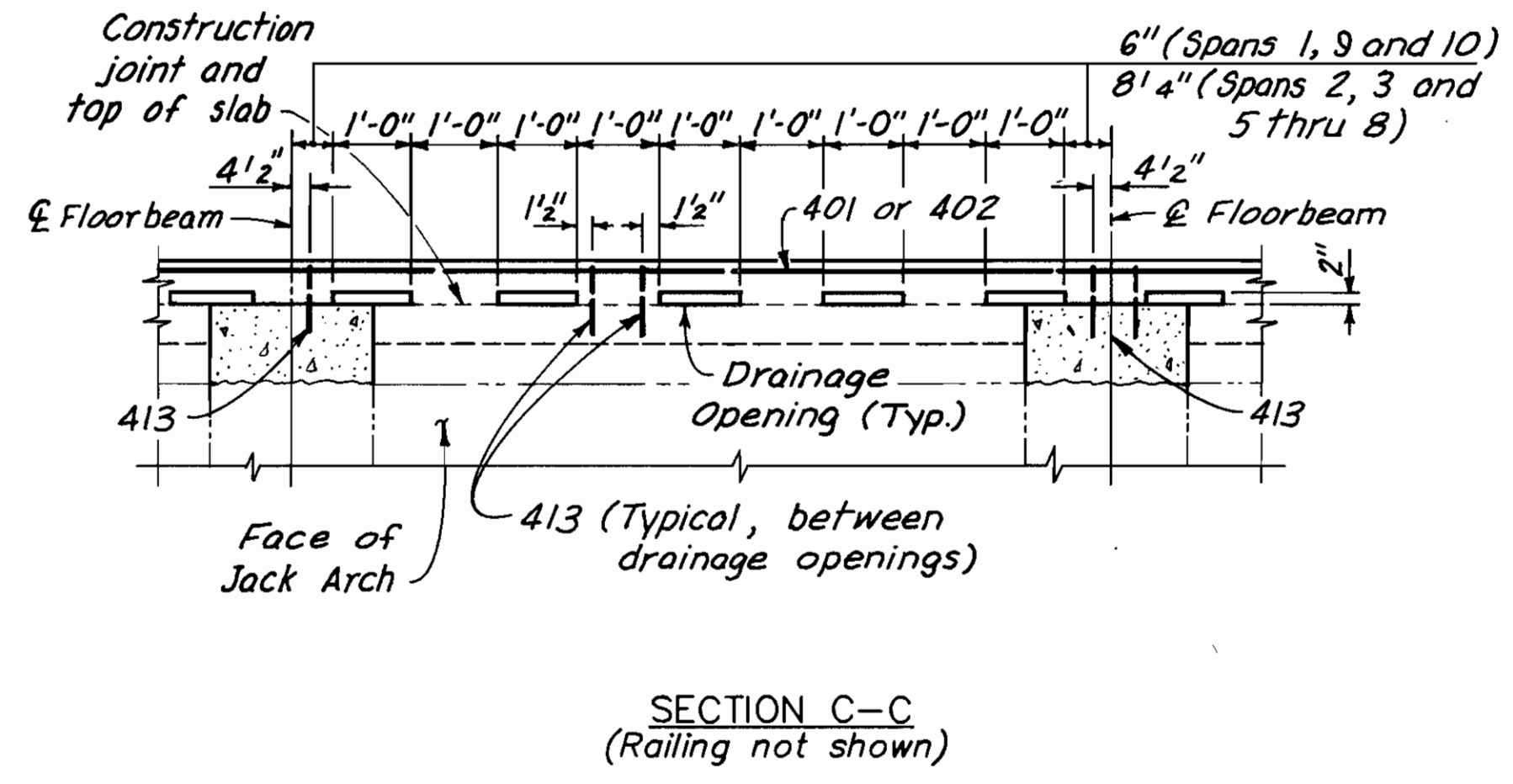
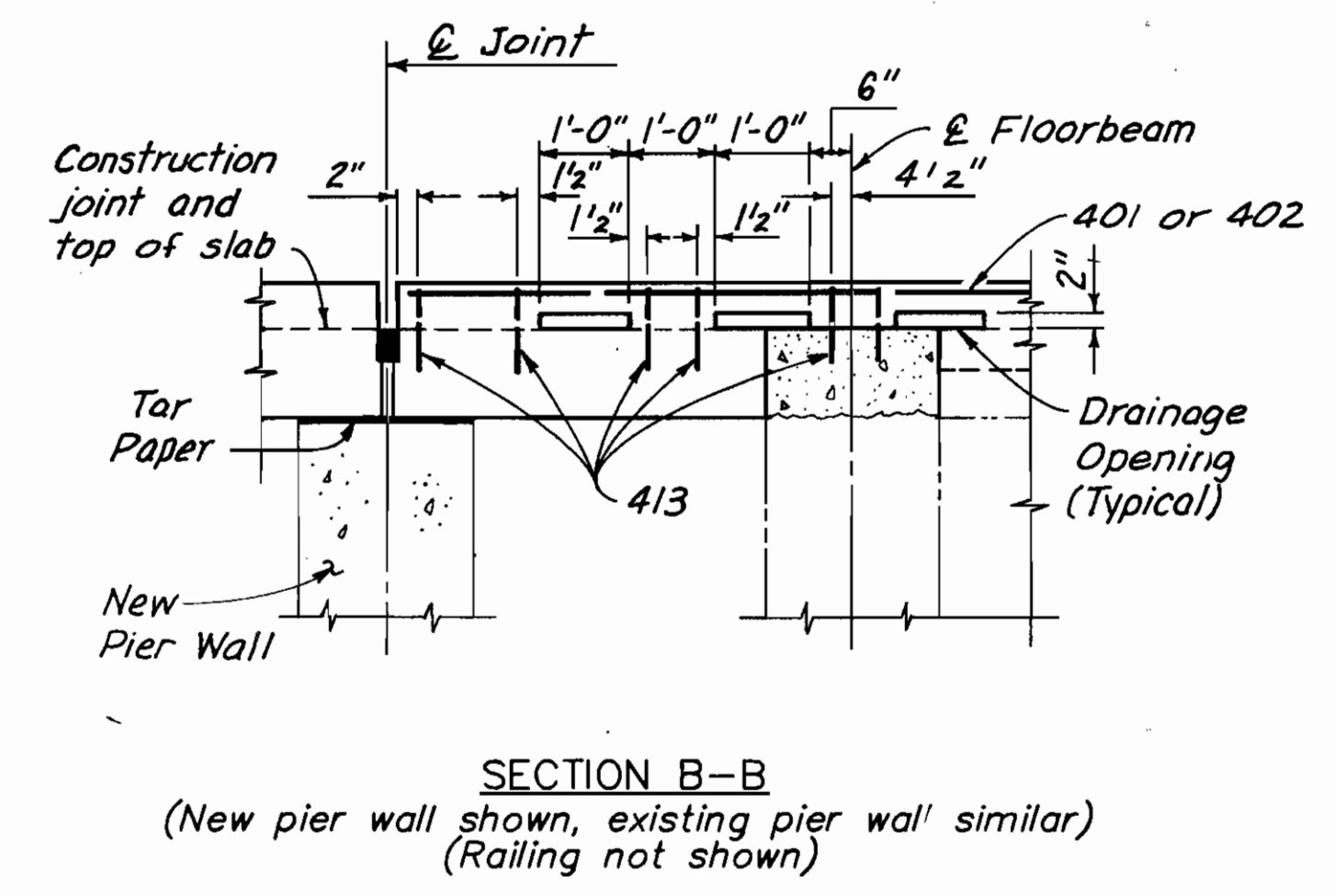
DRAWN	TRACED	CHECKED	REVIEWED
C.K.B.	G.C.A.	C.E.P.	C.A.B.
DATE	DATE	DATE	DATE
5/3/90	5/10/90	6/13/90	4/5/94

SHEET 96 / 270

CUYAHOGA COUNTY
CUY - 6 - 1499



Note:
Care shall be taken to finish the bottom of slab smooth and as high or slightly higher than the pier walls.



NOTES:
FOR PARTIAL LOWER DECK PLAN AND LOCATIONS OF SECTIONS A-A THRU I-I SEE SHEET 95/270.
FOR TYPICAL SECTIONS SEE SHEET 96/270.

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

SPAN 1B	-	1BLES
SPAN 1	-	1LES
SPAN 2	-	2LES
SPAN 3	-	3LES
SPAN 5	-	5LES
SPAN 6	-	6LES
SPAN 7	-	7LES
SPAN 8	-	8LES
SPAN 9	-	9LES
SPAN 10	-	10LES

COUNTY BRIDGE NO. 84

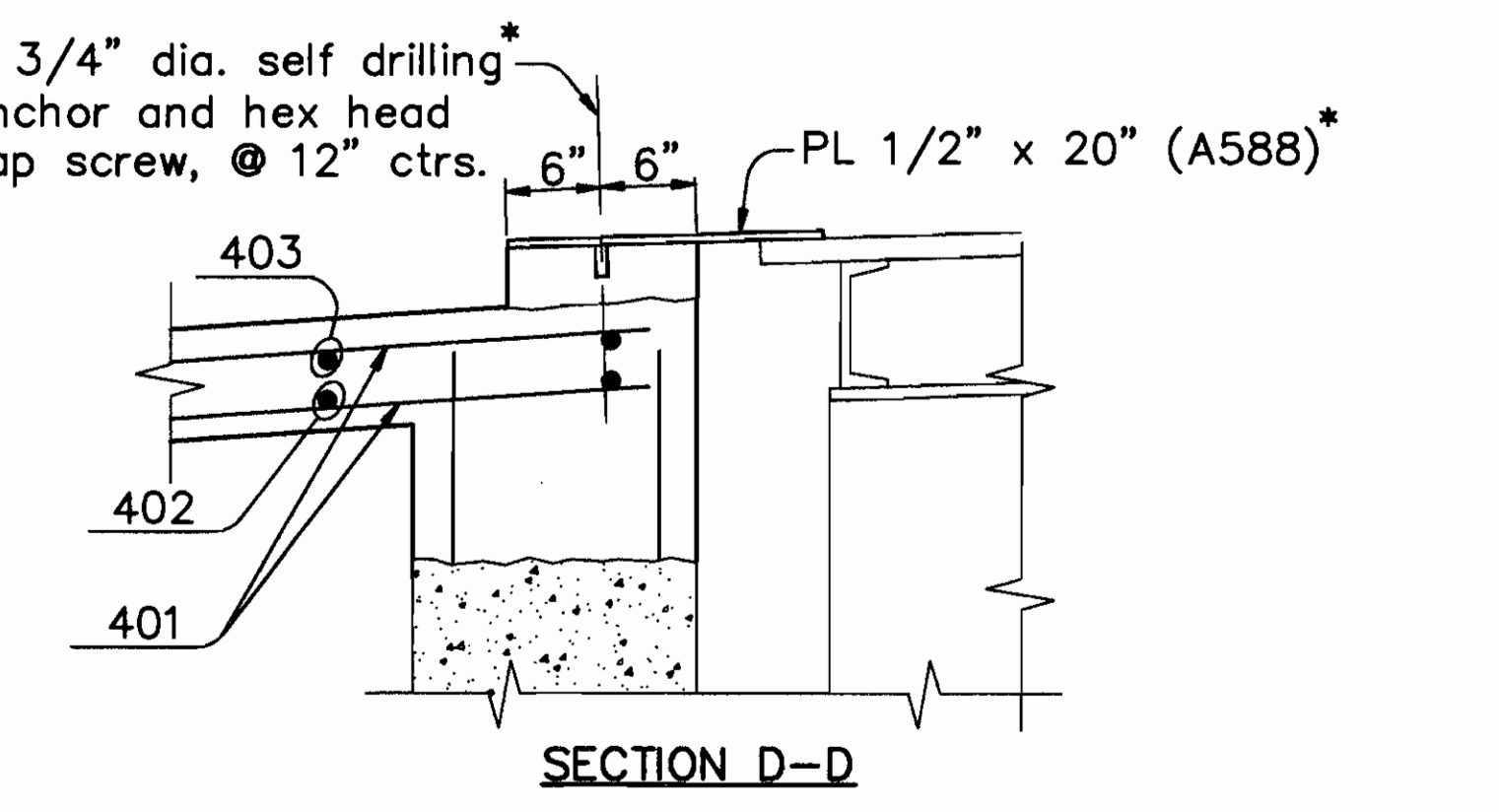
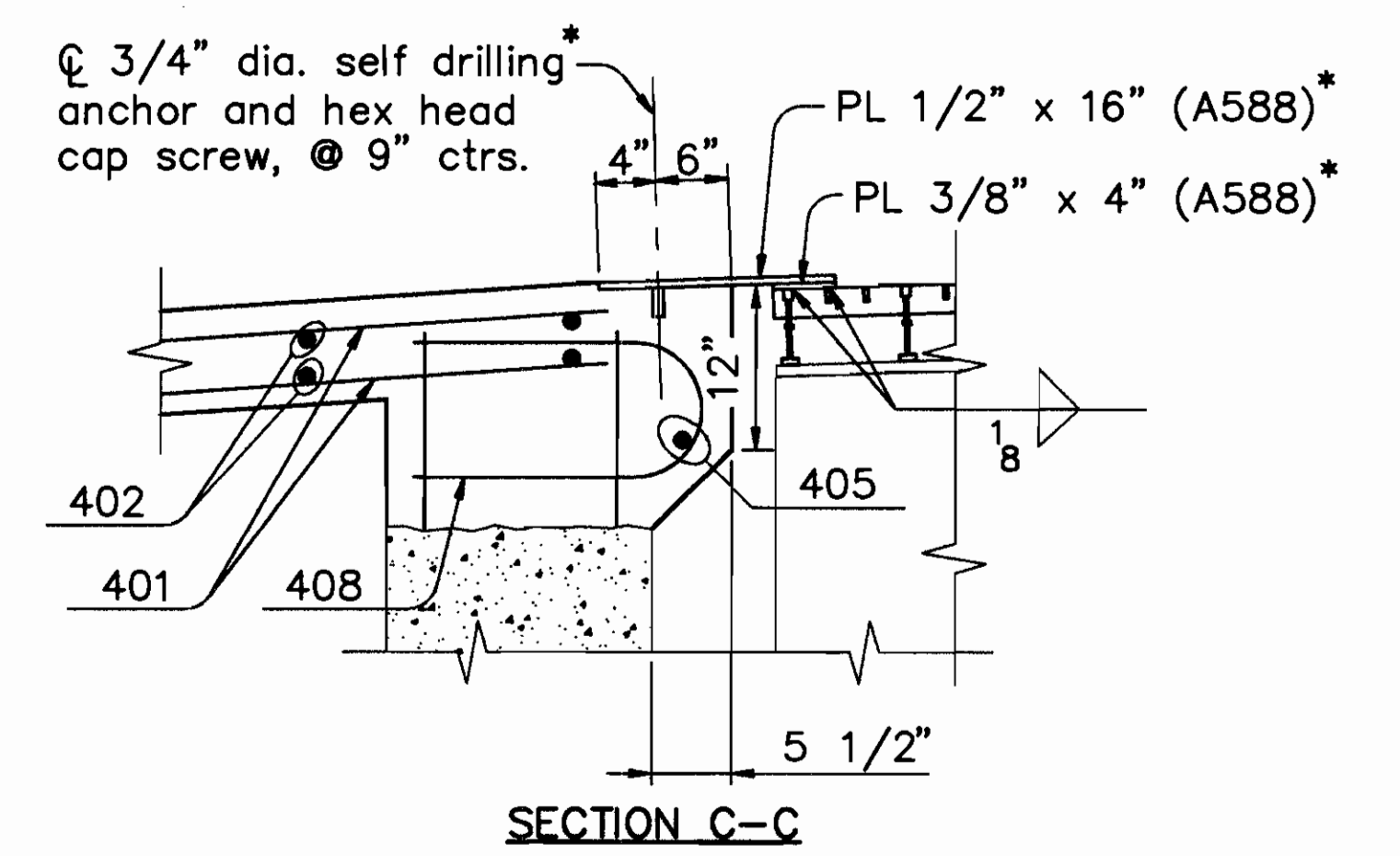
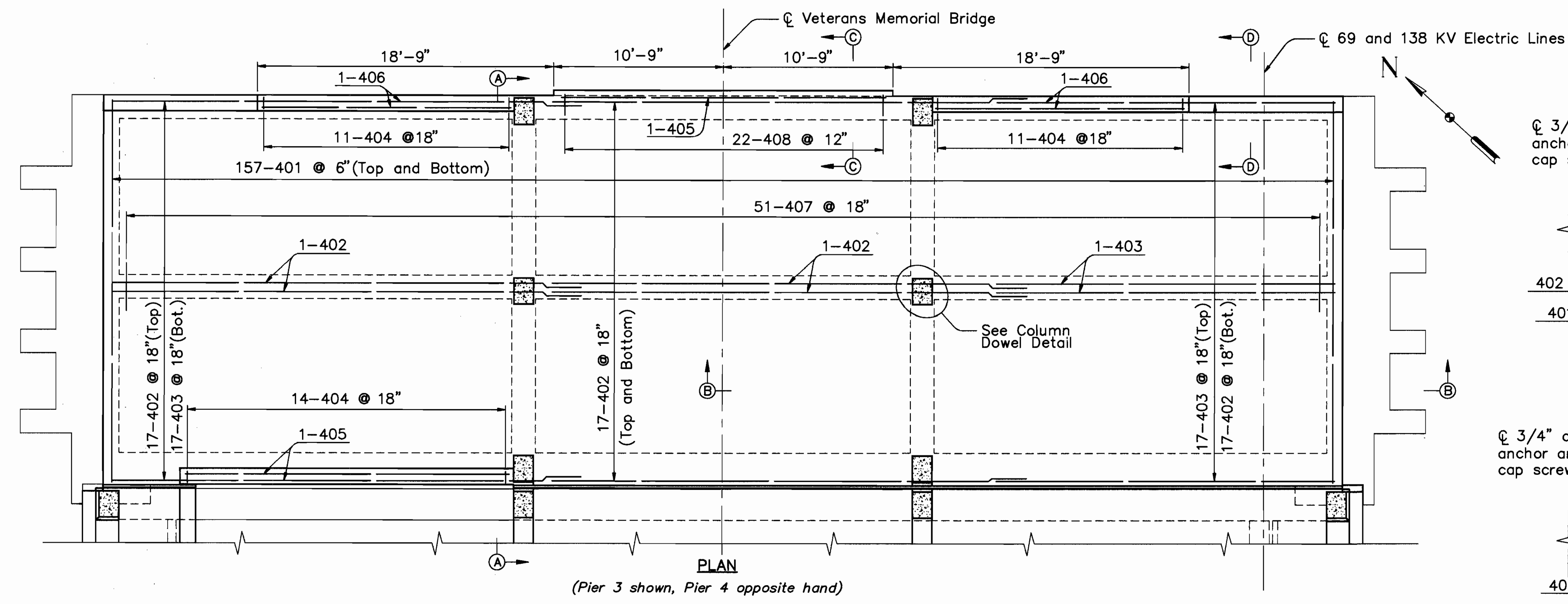
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK SECTIONS
SPANS 1 THRU 3 AND 5 THRU 10
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

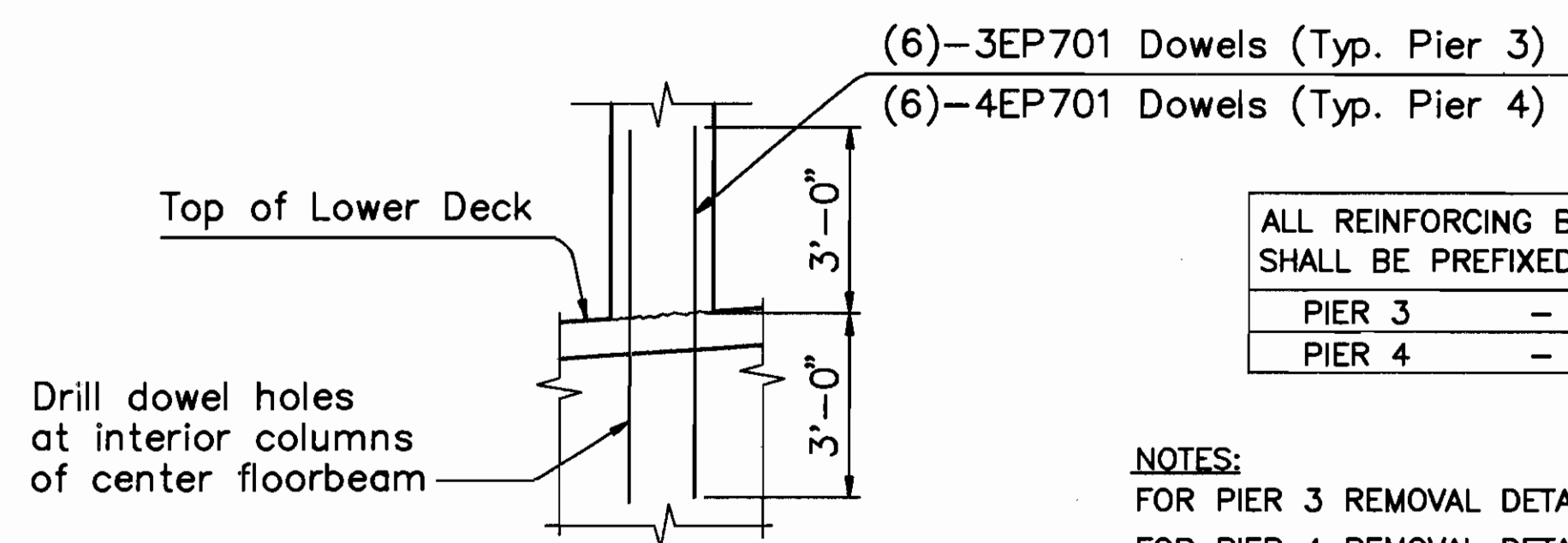
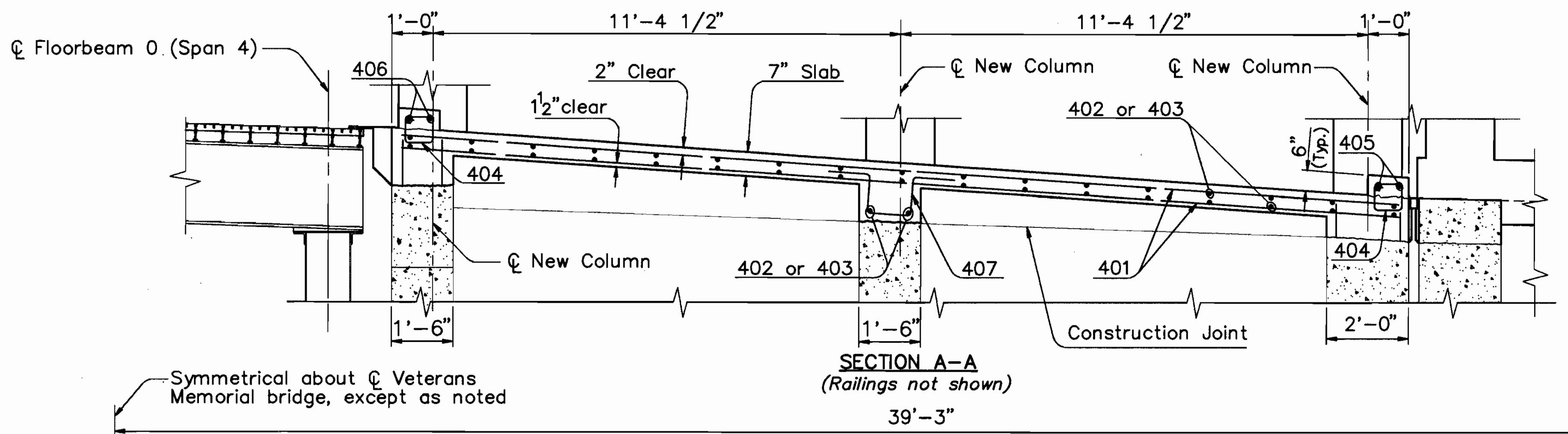
DRAWN	TRACED	CHECKED	REVIEWED	REVISED
C.K.B.	G.C.A.	C.E.P.	C.A.B.	
DATE	DATE	DATE	DATE	
5/28/90	6/6/90	6/13/90	4/5/94	

SHEET 97 / 270

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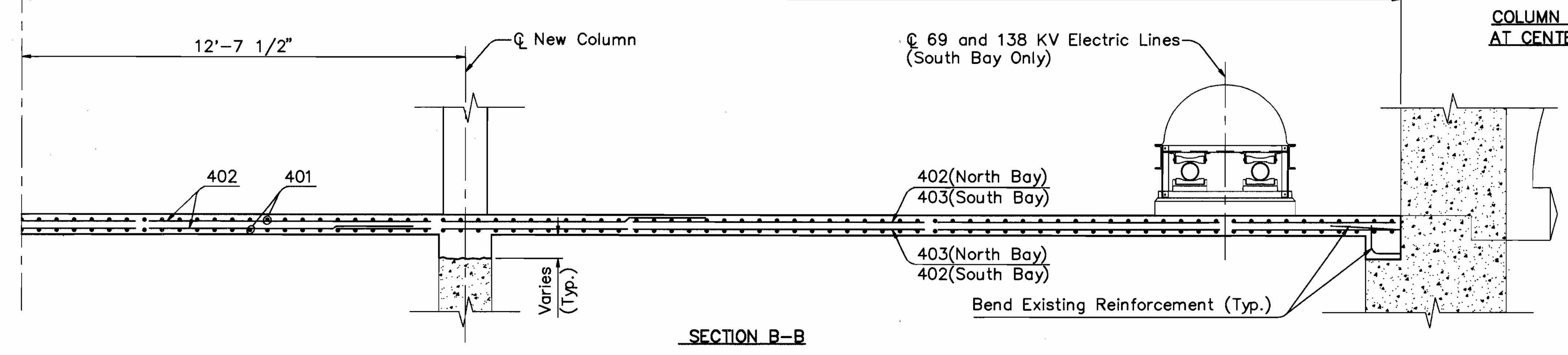


* Steel plates, bolts, and anchors shall be included with the open grid decking or fiberglass grating for payment. All bolts shall be galvanized.



ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:		
PIER 3	-	P3LES
PIER 4	-	P4LES

NOTES:
 FOR PIER 3 REMOVAL DETAILS SEE SHEET 55 / 270.
 FOR PIER 4 REMOVAL DETAILS SEE SHEET 56 / 270.
 FOR PIER 3 REPLACEMENT DETAILS SEE SHEET 79 / 270.
 FOR PIER 4 REPLACEMENT DETAILS SEE SHEET 80 / 270.
 FOR SPAN 4 LOWER DECK DETAILS SEE SHEETS 99 / 270, 100 / 270 AND 101 / 270.
 REINFORCEMENT BAR LAP LENGTH SHALL BE 1'-6" MINIMUM.



COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK DETAILS
 PIERS 3 AND 4
 BR. NO. CUY - 6 - 1499
 REHABILITATION OF
 VETERANS MEMORIAL BRIDGE
 (U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
 CLEVELAND CUYAHOGA COUNTY OHIO

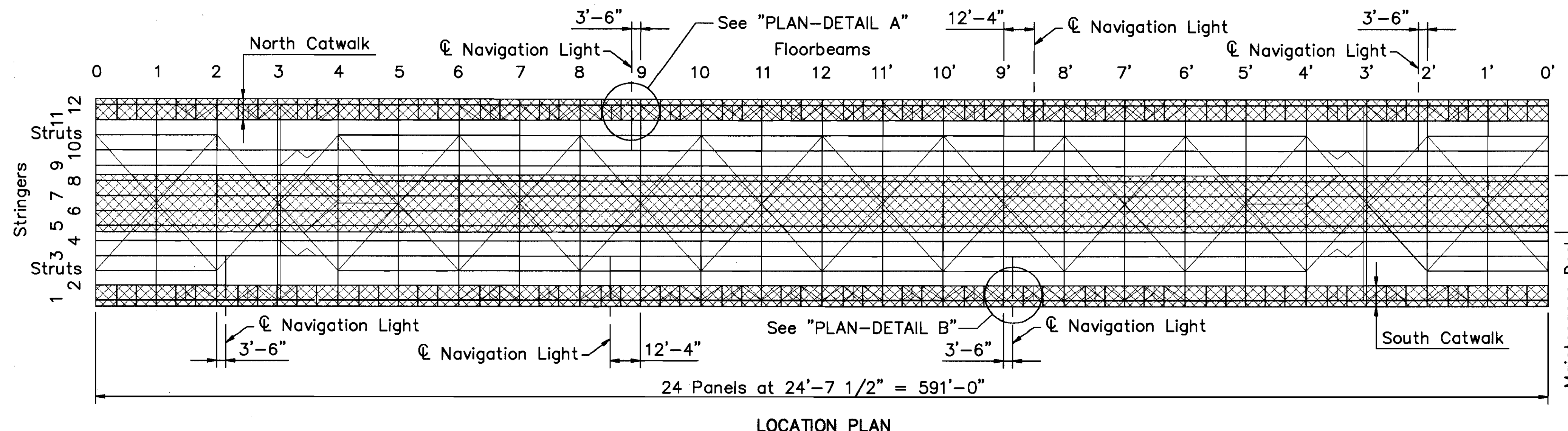
DRAWN	TRACED	CHECKED	REVIEWED
B.E.B.	B.E.B.	W.D.D.	C.A.B.
DATE	DATE	DATE	DATE
6/25/93	6/25/93	3/9/94	3/31/94

SHEET 98 / 270

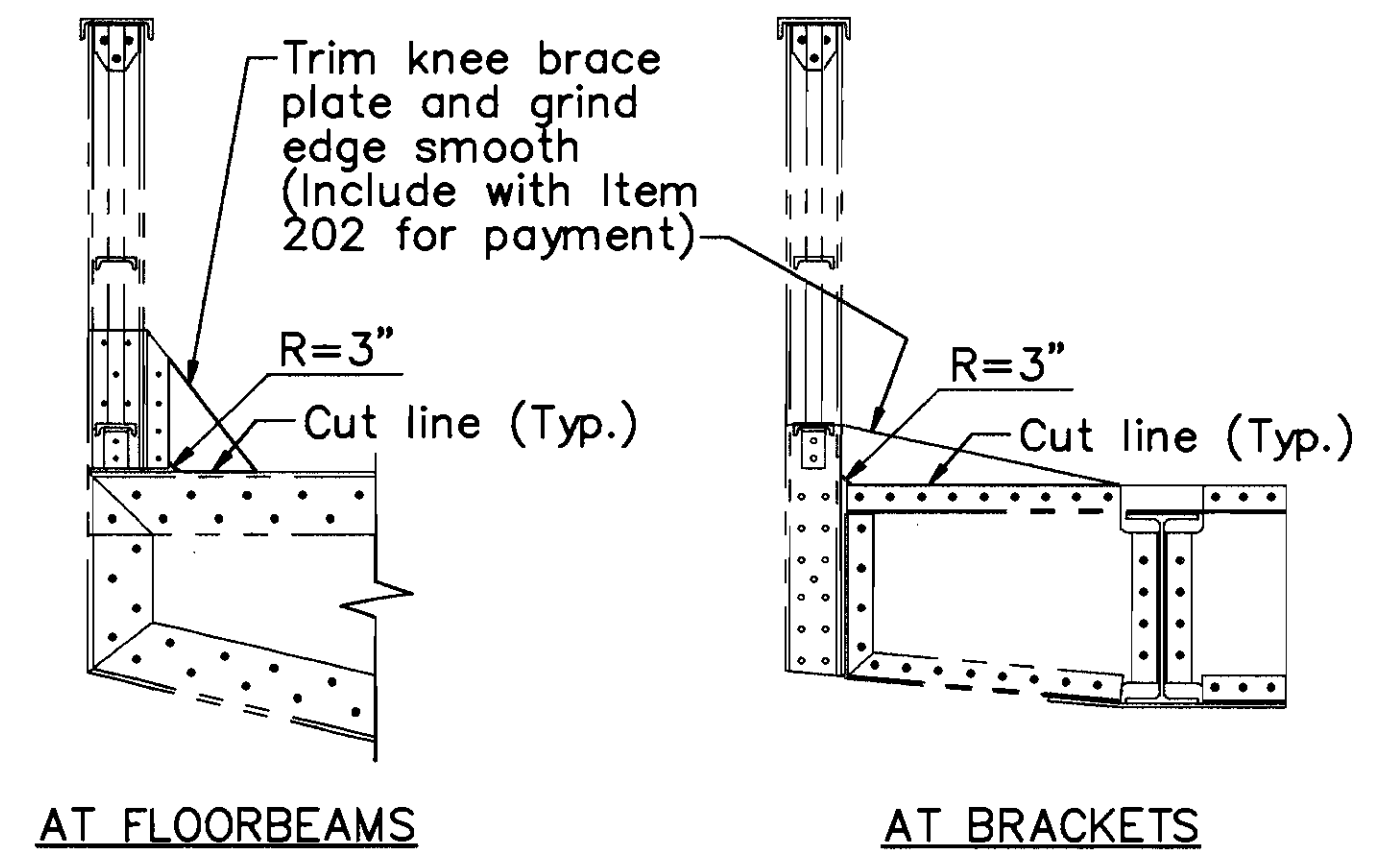
FHWA REGION	STATE	PROJECT	
5	OHIO		

231
412

CUYAHOGA COUNTY
CUY - 6 - 14.99



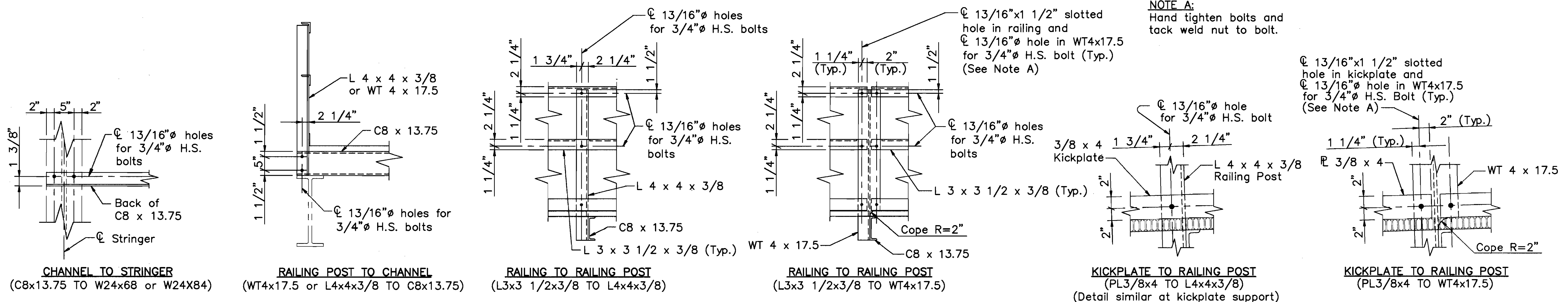
LOCATION PLAN



AT FLOORBEAMS

AT BRACKETS

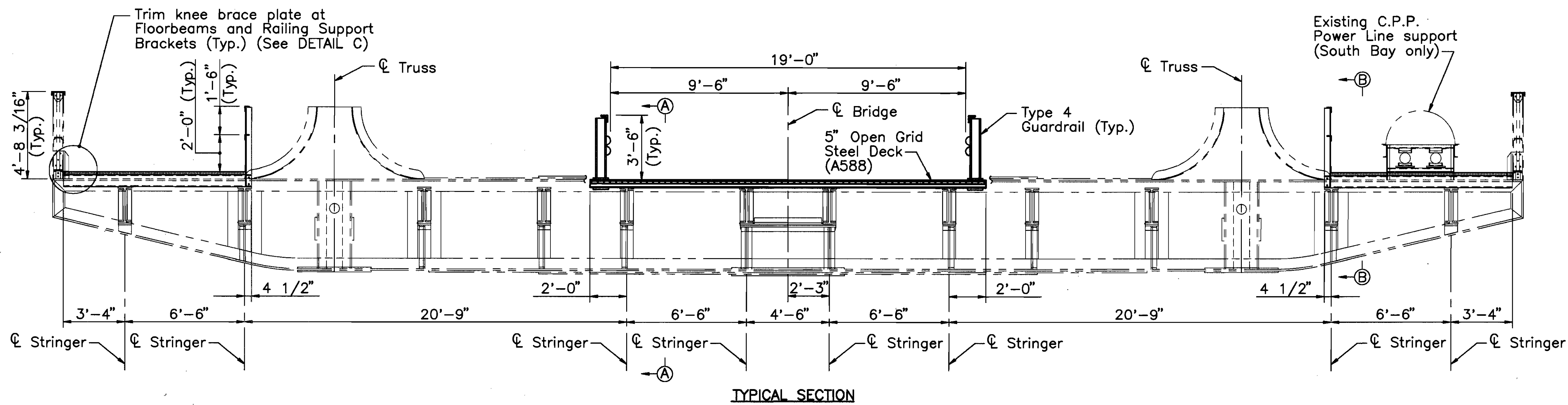
DETAIL C



NOTE A:
Hand tighten bolts and
tack weld nut to bolt.

Ø 13/16" x 1/2" slotted
hole in kickplate and
Ø 13/16" hole in WT4x17.5
for 3/4" H.S. Bolt (Typ.)
(See Note A)

TYPICAL CATWALK CONNECTION DETAILS



TYPICAL SECTION

NOTES:
For PLAN-DETAIL A and PLAN-DETAIL B,
See sheet 101/270.
For Sections A-A and B-B, See sheet 100/270.
For Utility Support Details, see sheets 232/270
and 233/270.
For additional Notes, See sheet 100/270.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS **HNTB**

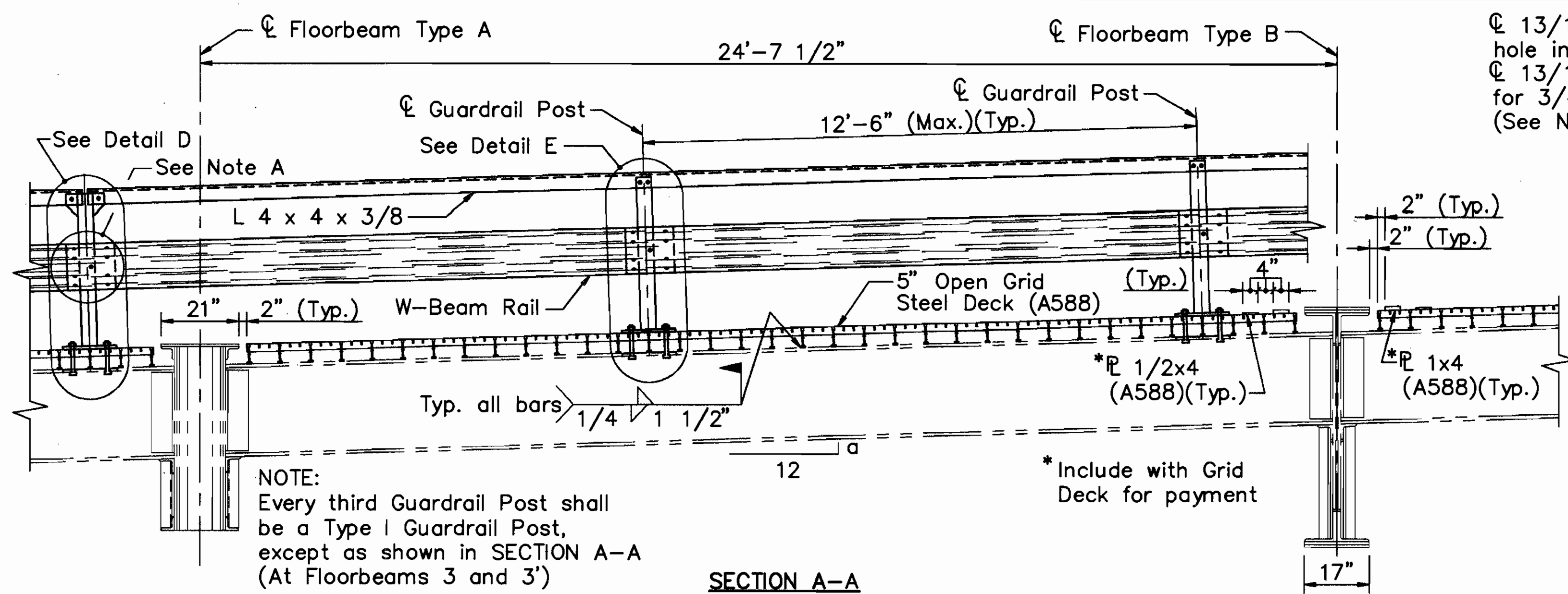
LOWER DECK DETAILS
SPAN 4
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	ADY	TRACED	ADY	CHECKED	JLV	REVIEWED	CAB	REVISED
DATE	03/24/94	DATE	03/24/94	DATE	03/31/94	DATE	04/05/94	

SHEET 99 / 270

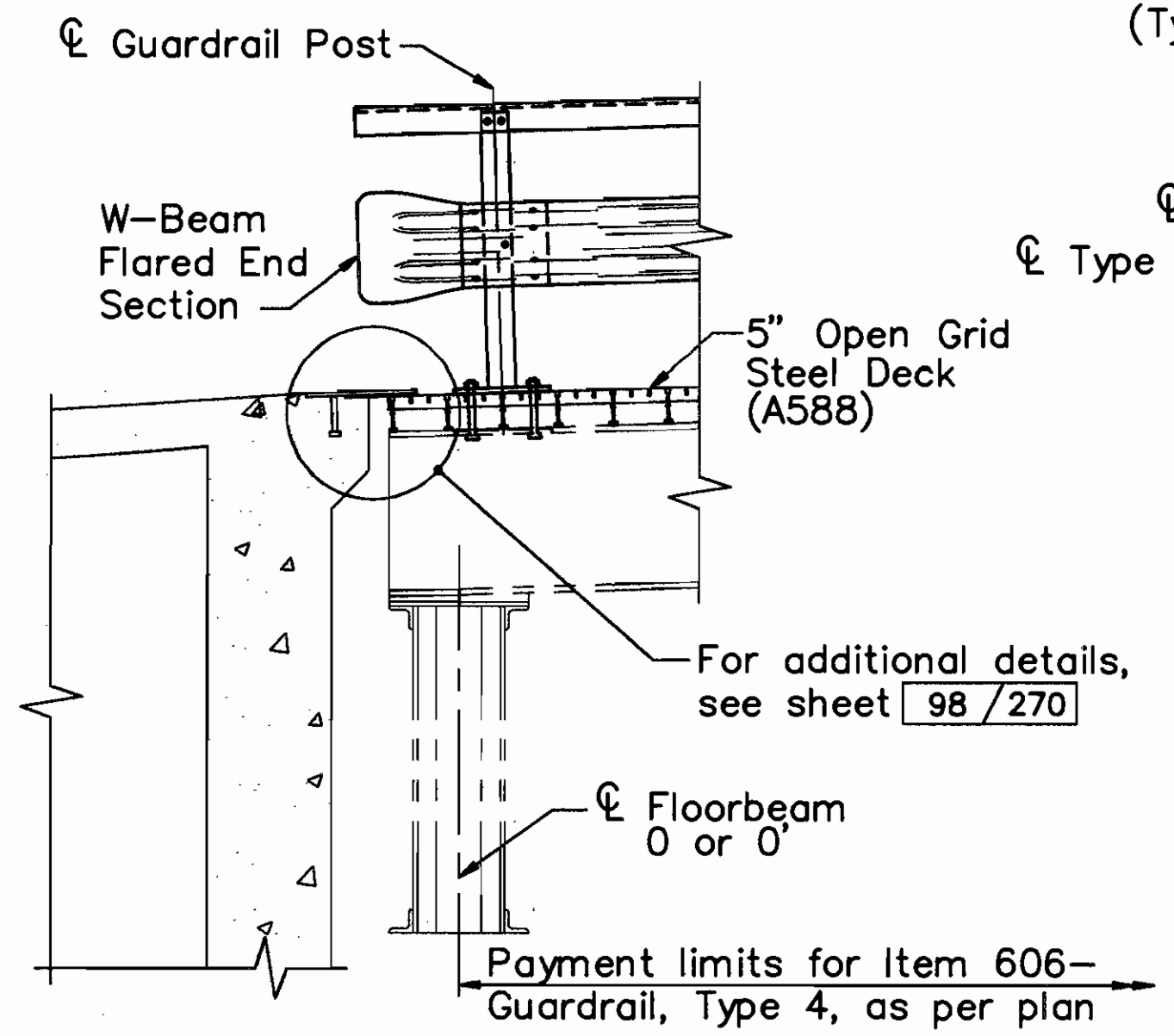
\\11646\CONCRETE\LDSP4

CUYAHOGA COUNTY
CUY - 6 - 14.99

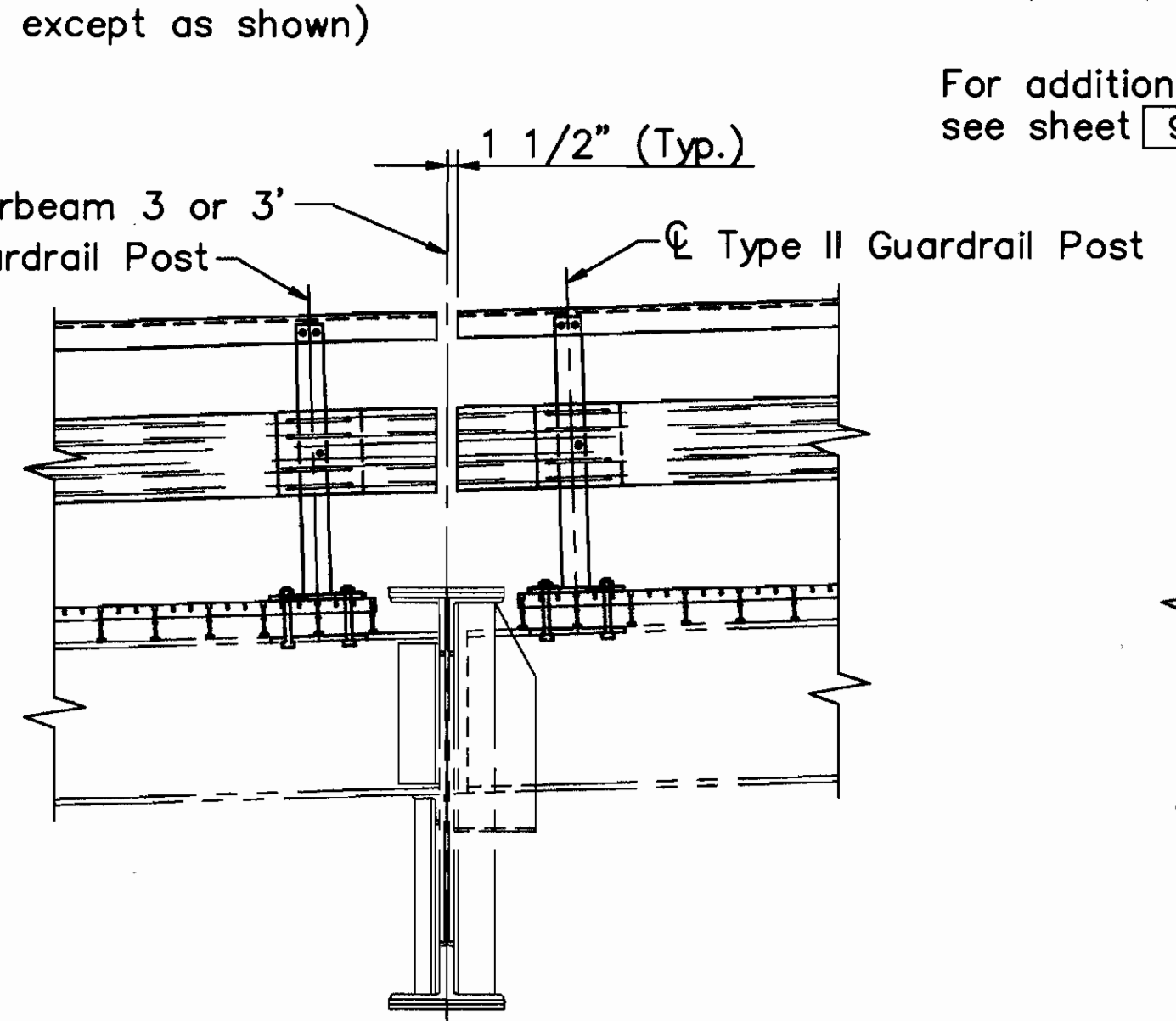


NOTE:
Every third Guardrail Post shall be a Type I Guardrail Post, except as shown in SECTION A-A (At Floorbeams 3 and 3')

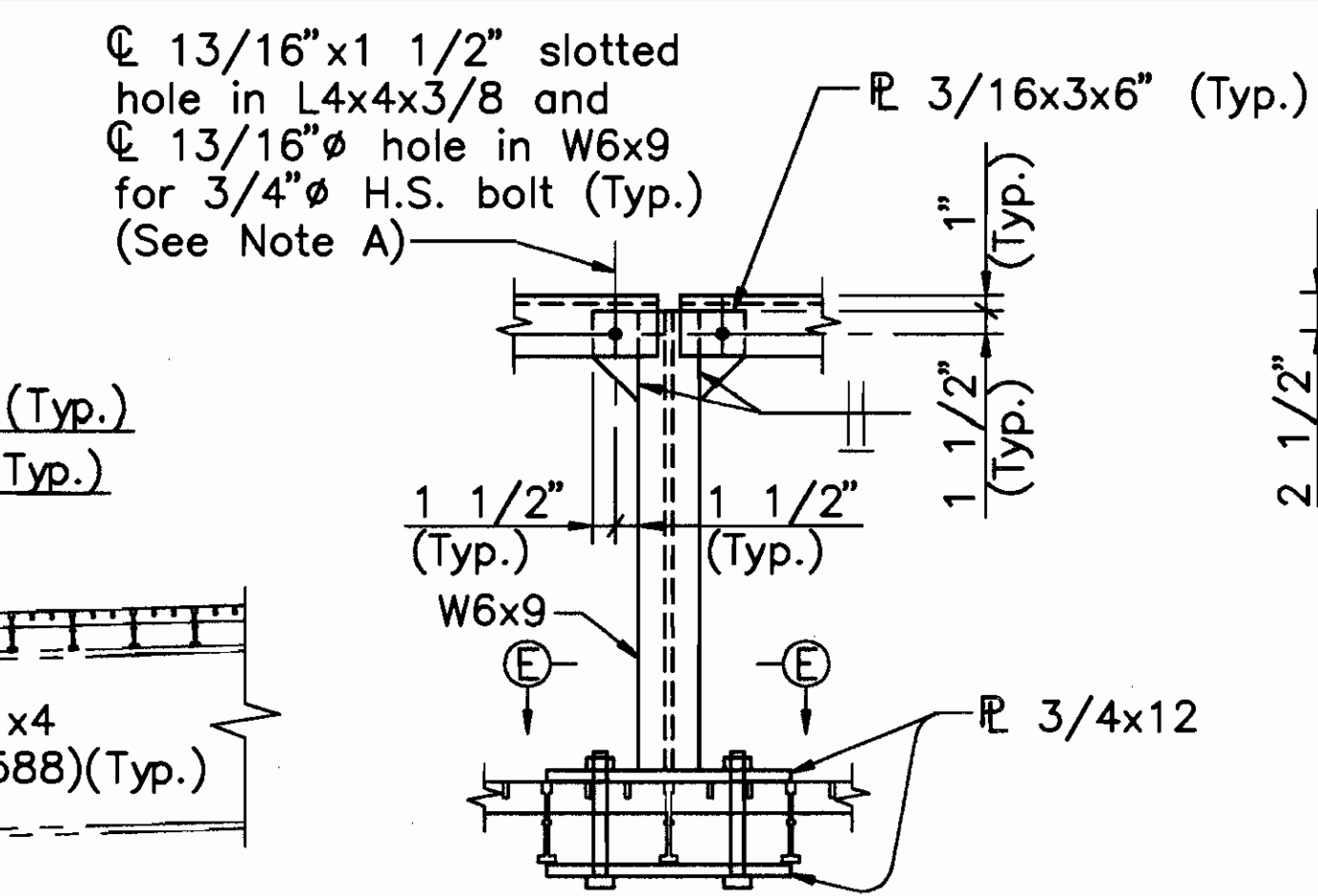
SECTION A-A
(Typical, except as shown)



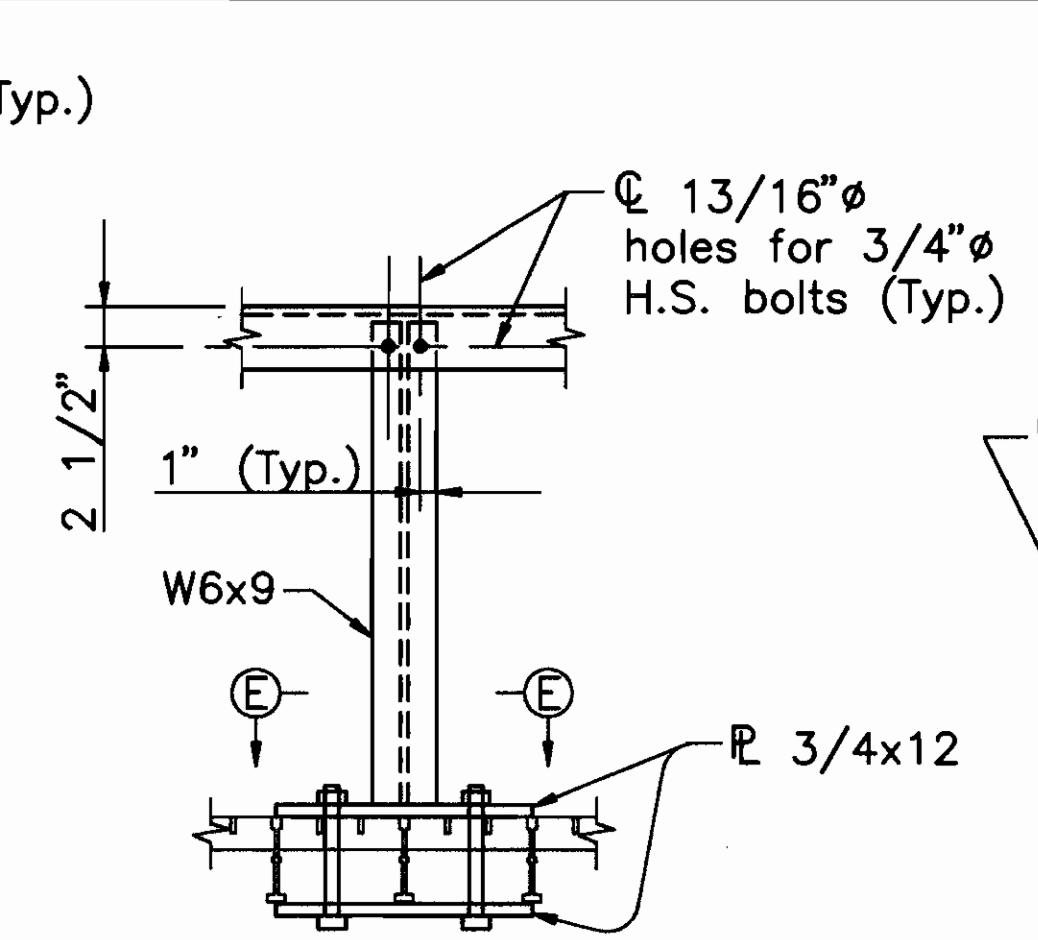
SECTION A-A
(At Floorbeams 0 and 0')



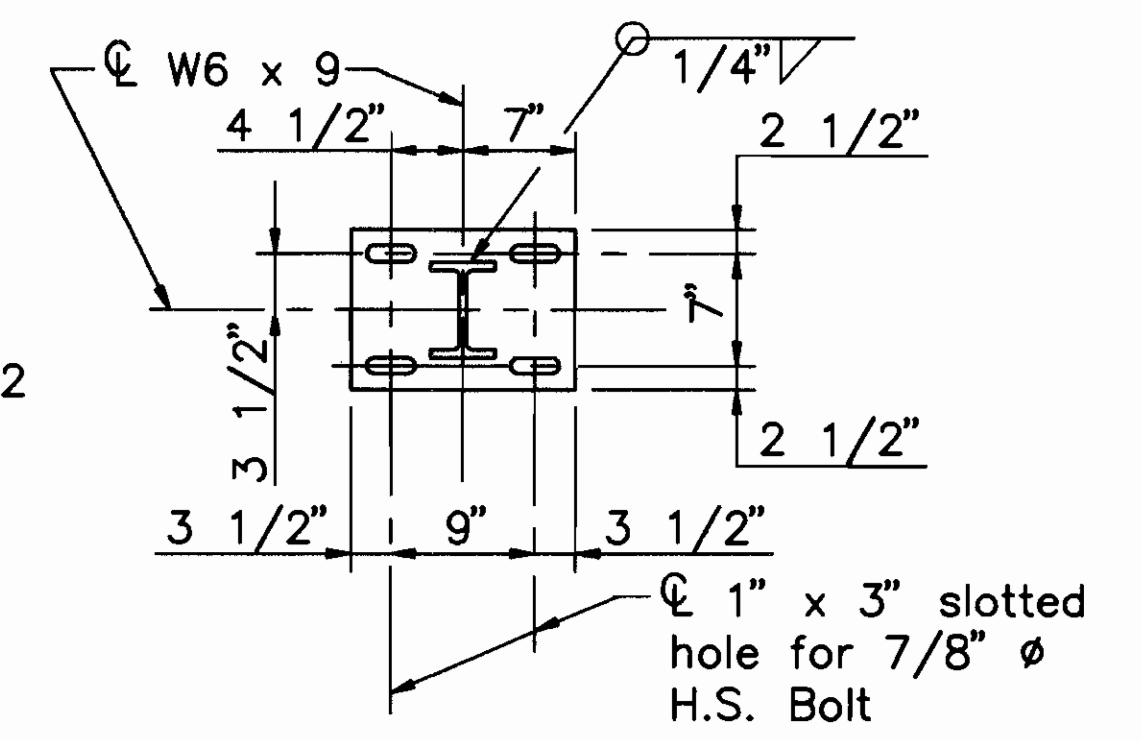
SECTION A-A
(At Floorbeams 3 and 3')



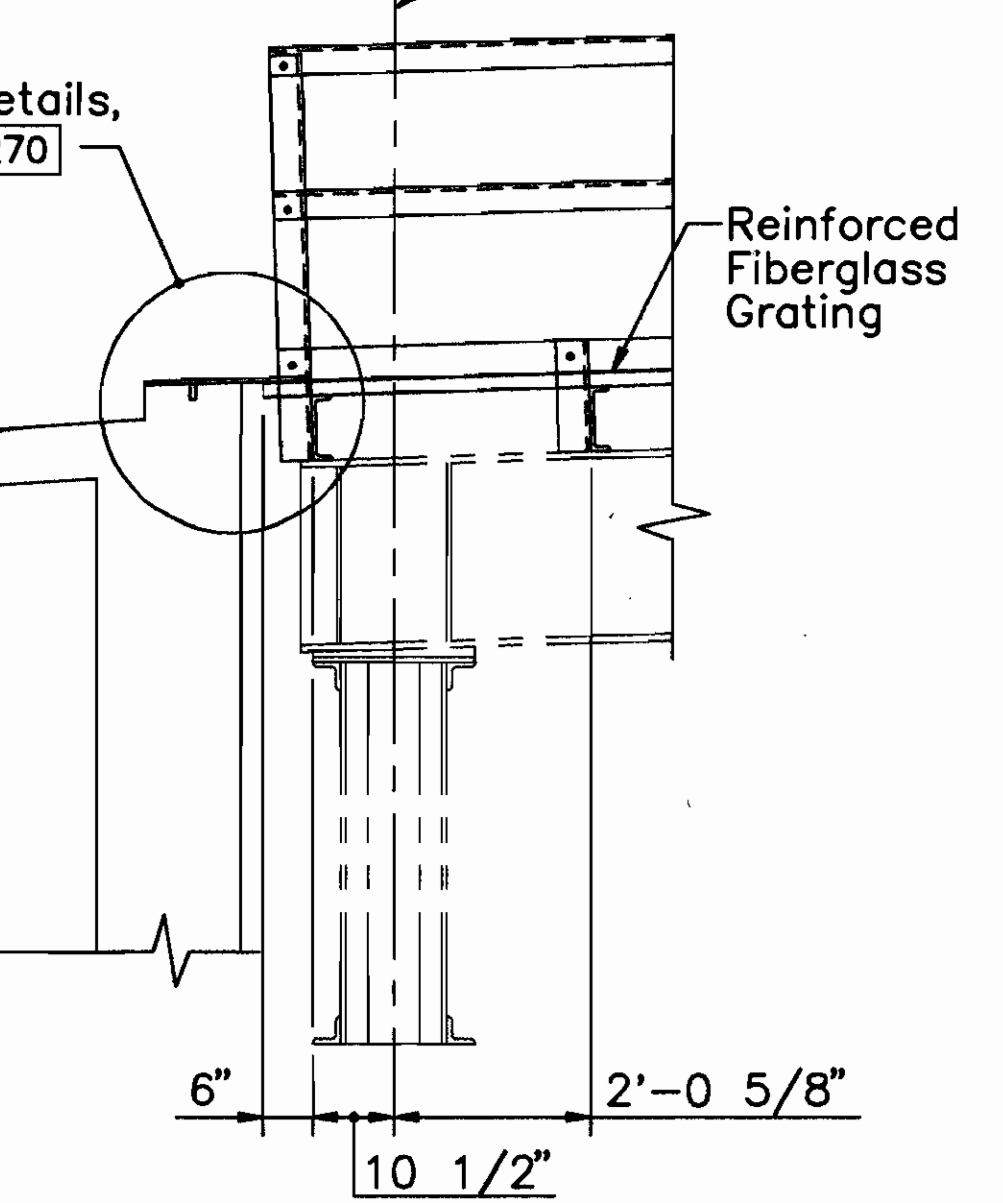
DETAIL D
(Type I Guardrail Post)
(W-Beam Rail not shown)



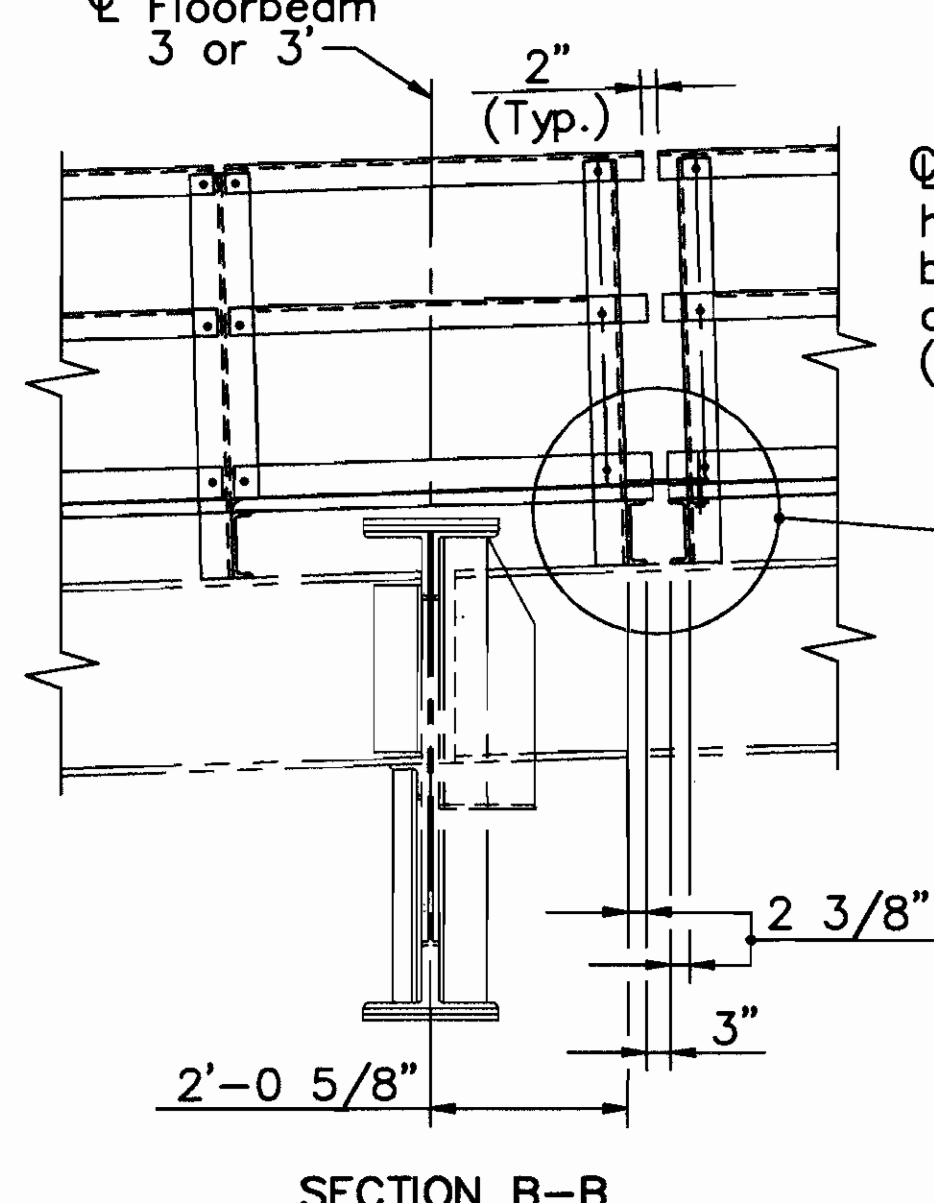
DETAIL E
(Type II Guardrail Post)
(W-Beam Rail not shown)



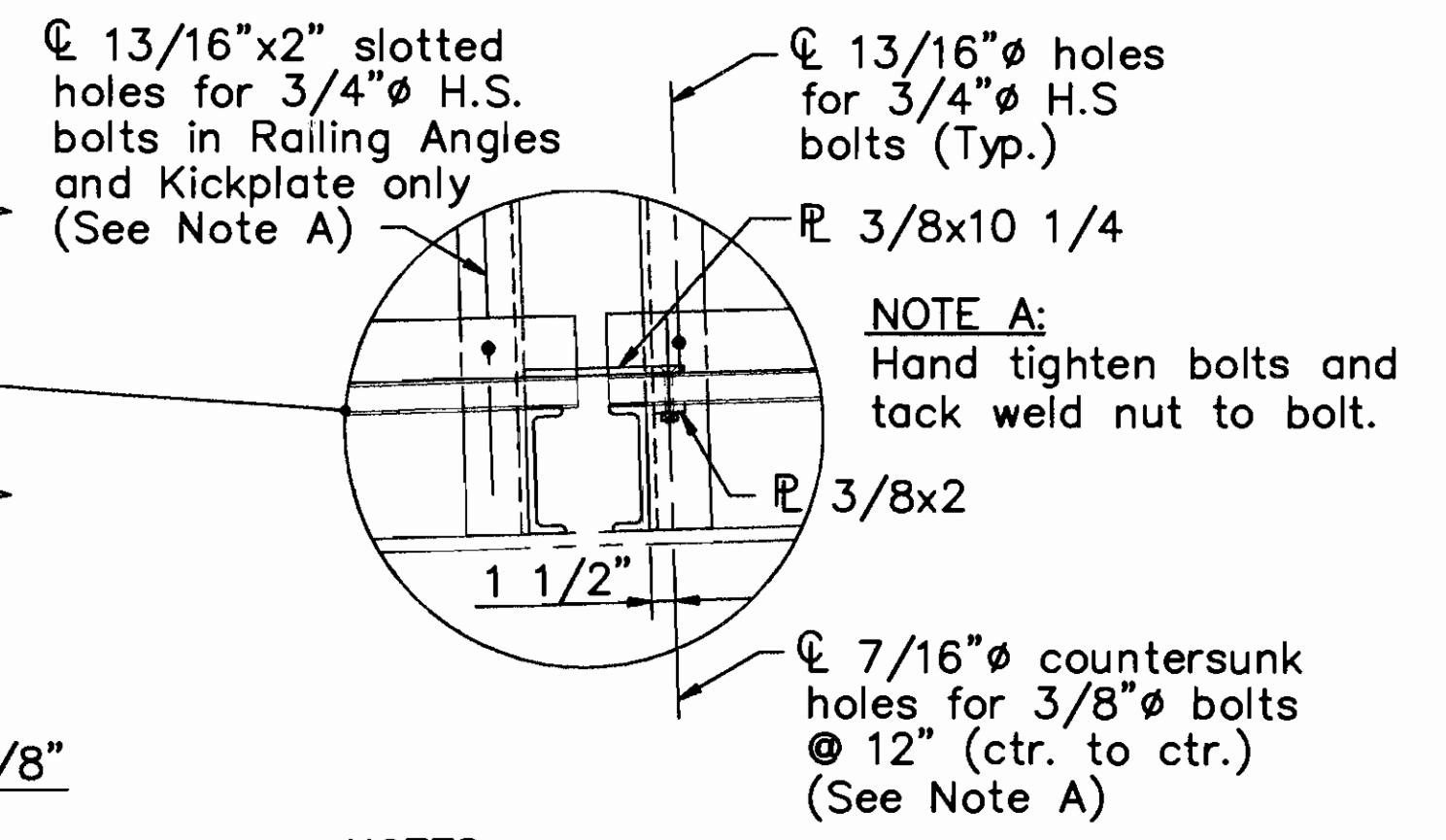
SECTION E-E
(Open Grid Deck not shown)



SECTION B-B
(At Floorbeams 0 and 0')



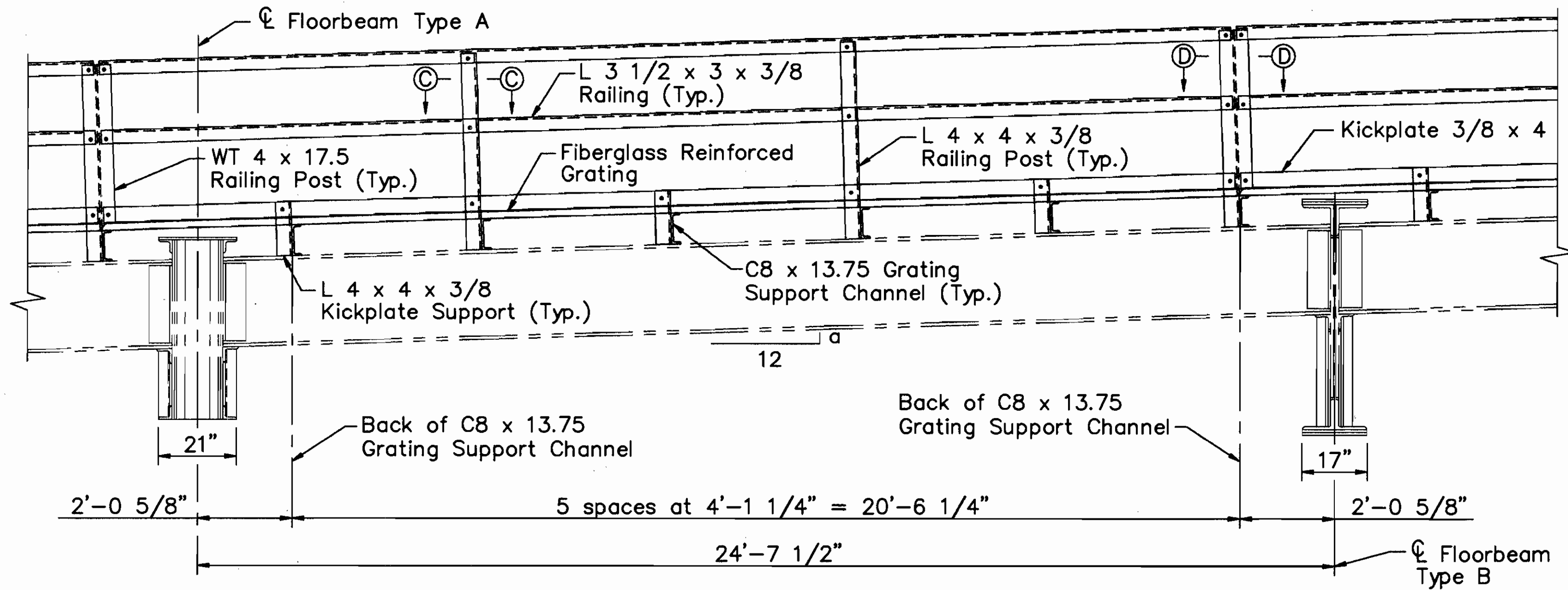
SECTION B-B
(At Floorbeams 3 and 3')



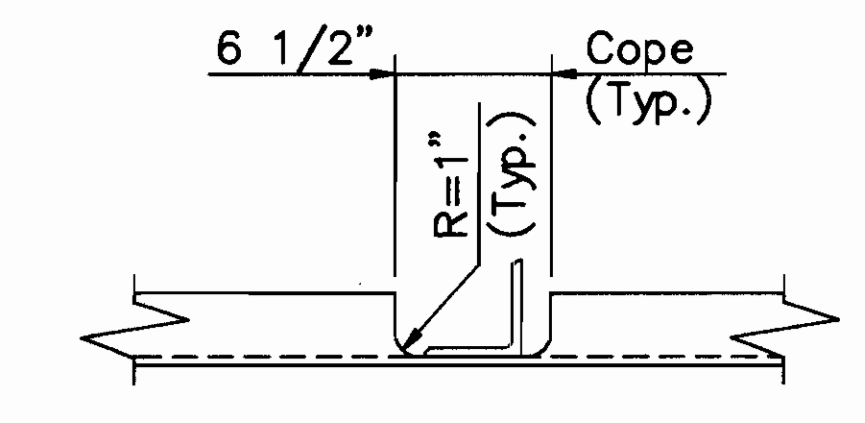
NOTE A:
Hand tighten bolts and tack weld nut to bolt.

NOTES:

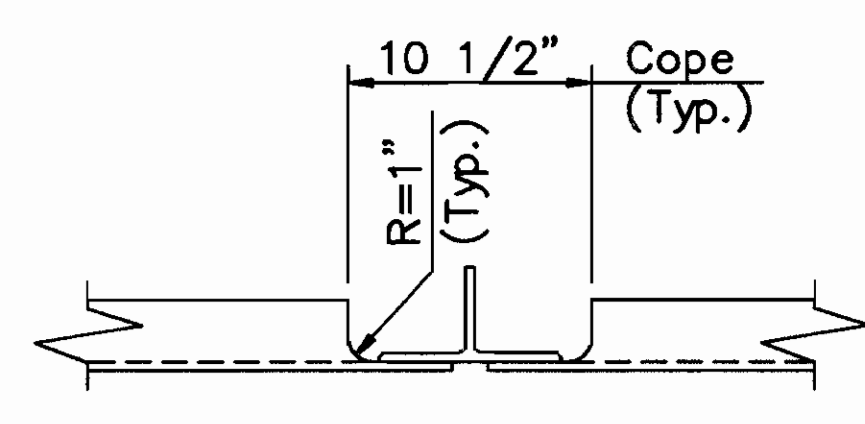
- For TYPICAL CATWALK CONNECTION DETAILS, See sheet 99/270.
- For location of Sections A-A and B-B, See sheet 99/270.
- For additional Catwalk Details, See sheet 101/270.
- For additional Guardrail details, see standard construction drawings GR-1.1, 5-6-91 and GR-1.2, 10-30-92.



SECTION B-B
(Typical at WT Railing Posts)



SECTION C-C
(Typical at L4x4 Railing Posts)



SECTION D-D
(Typical at WT Railing Posts)

Floorbeam	Panel	FB Type	a
0		A	
1	1	A	3/8
2	2	A	3/8
3	3	A	3/8
4	4	B	3/8
5	5	B	11/32
6	6	B	5/16
7	7	B	1/4
8	8	B	7/32
9	9	B	5/32
10	10	B	1/8
11	11	B	1/16
12	12	B	1/32

NOTE:
Symmetrical about Floorbeam 12.

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

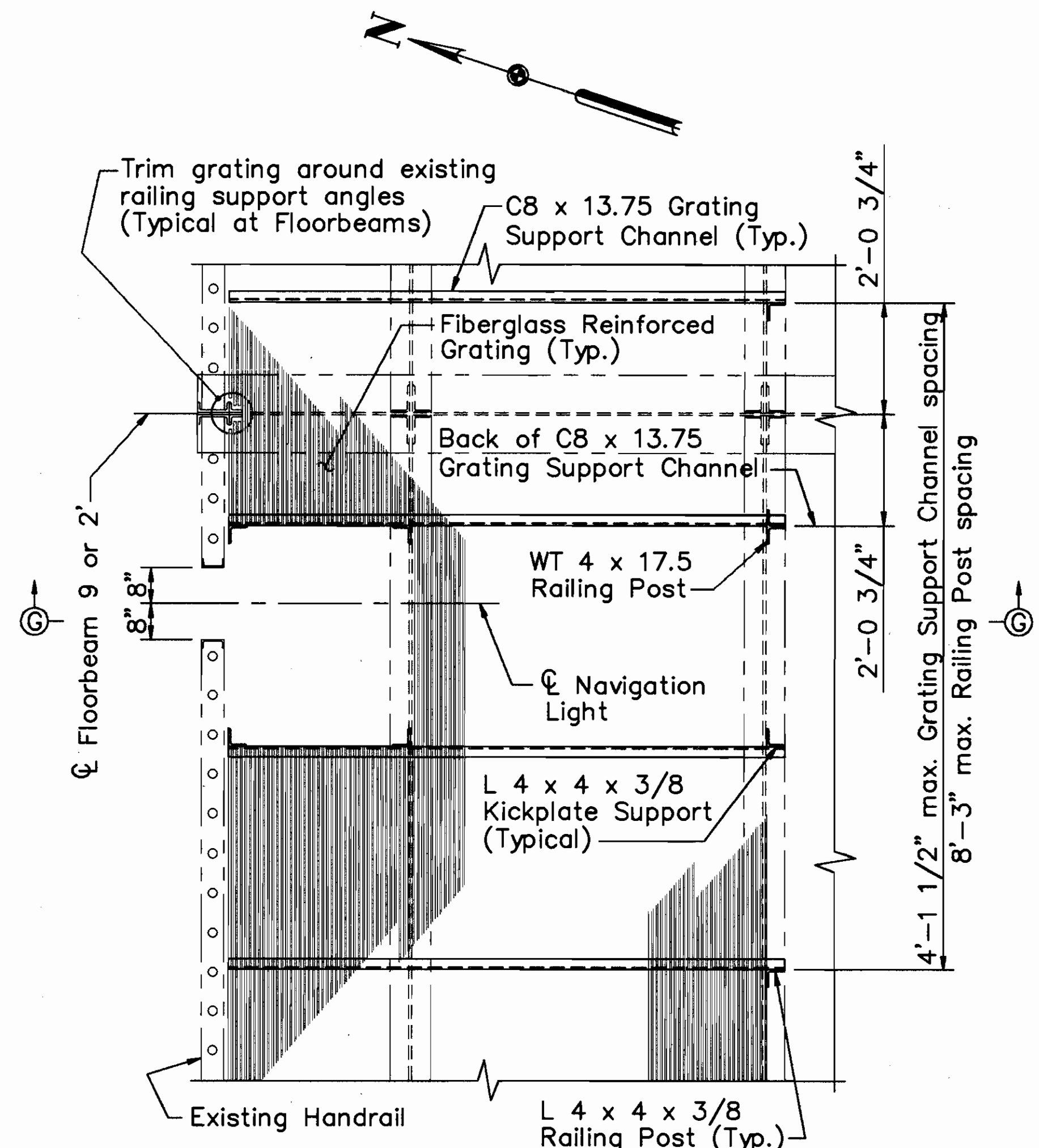
LOWER DECK DETAILS
SPAN 4
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
ADY	ADY	JLV	CAB	
DATE	DATE	DATE	DATE	DATE
03/24/94	03/24/94	03/31/94	04/05/94	

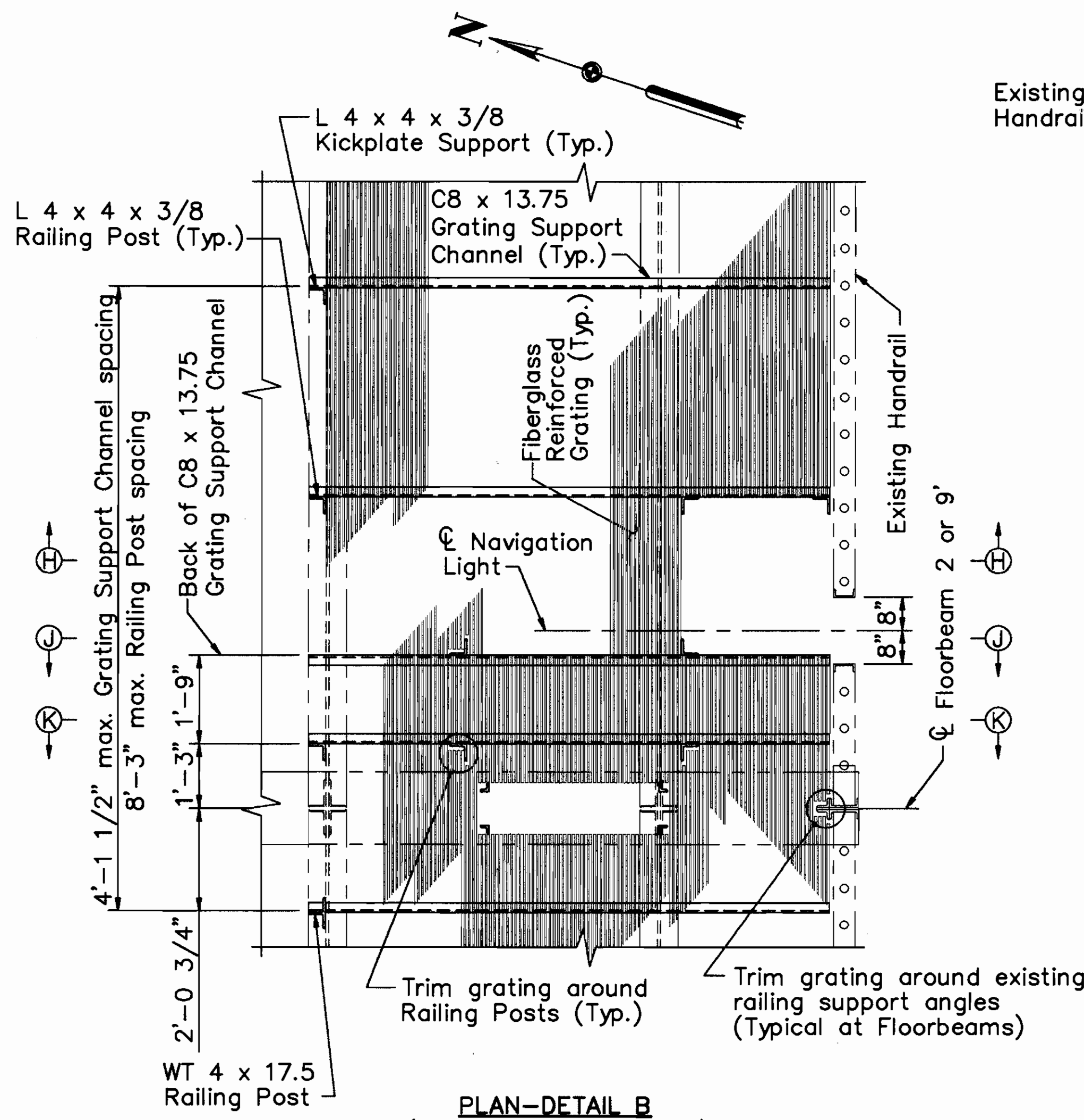
SHEET 100/270

\\11646\CONCRETE\LDSP4

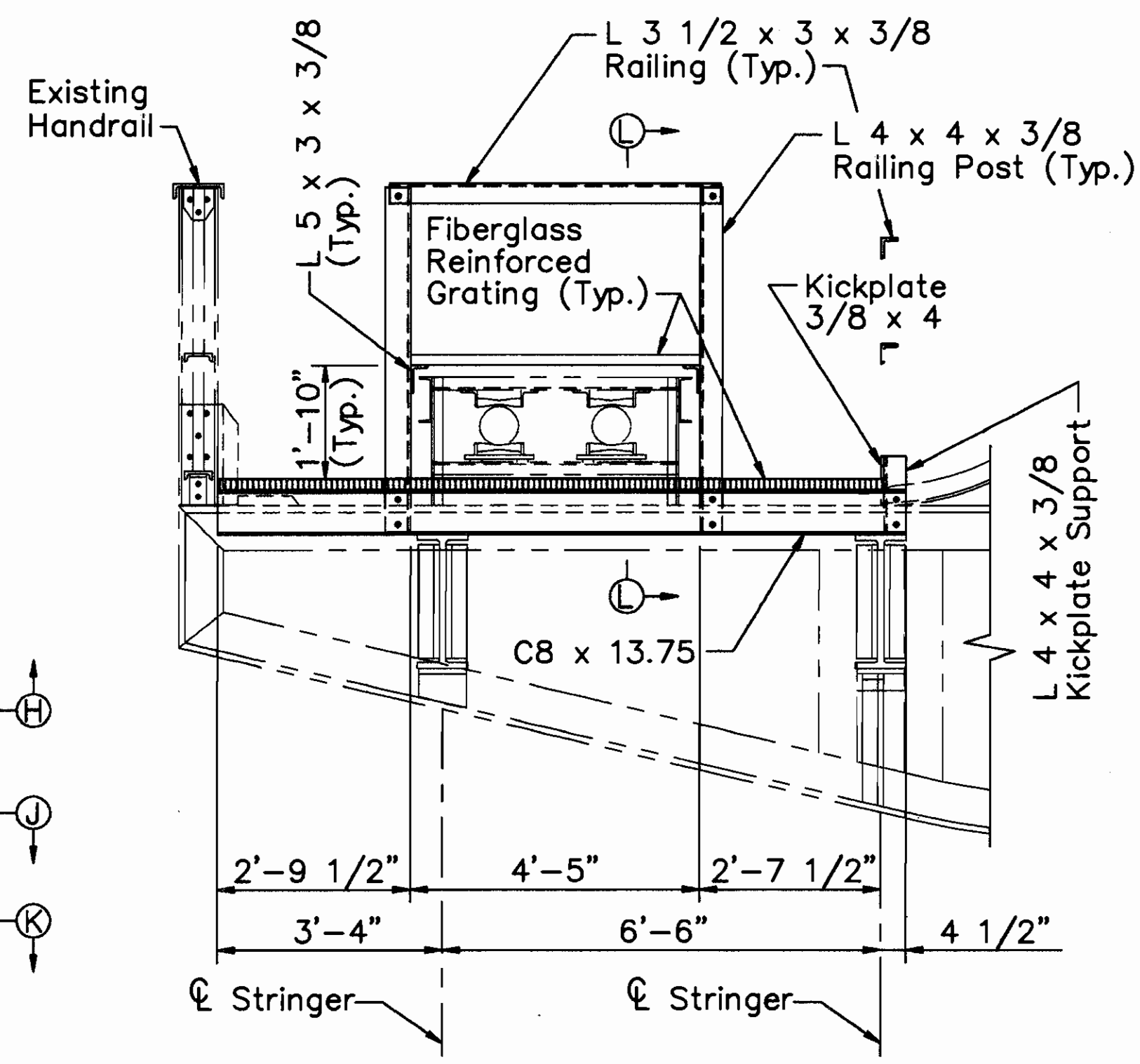
CUYAHOGA COUNTY
CUY - 6 - 1499



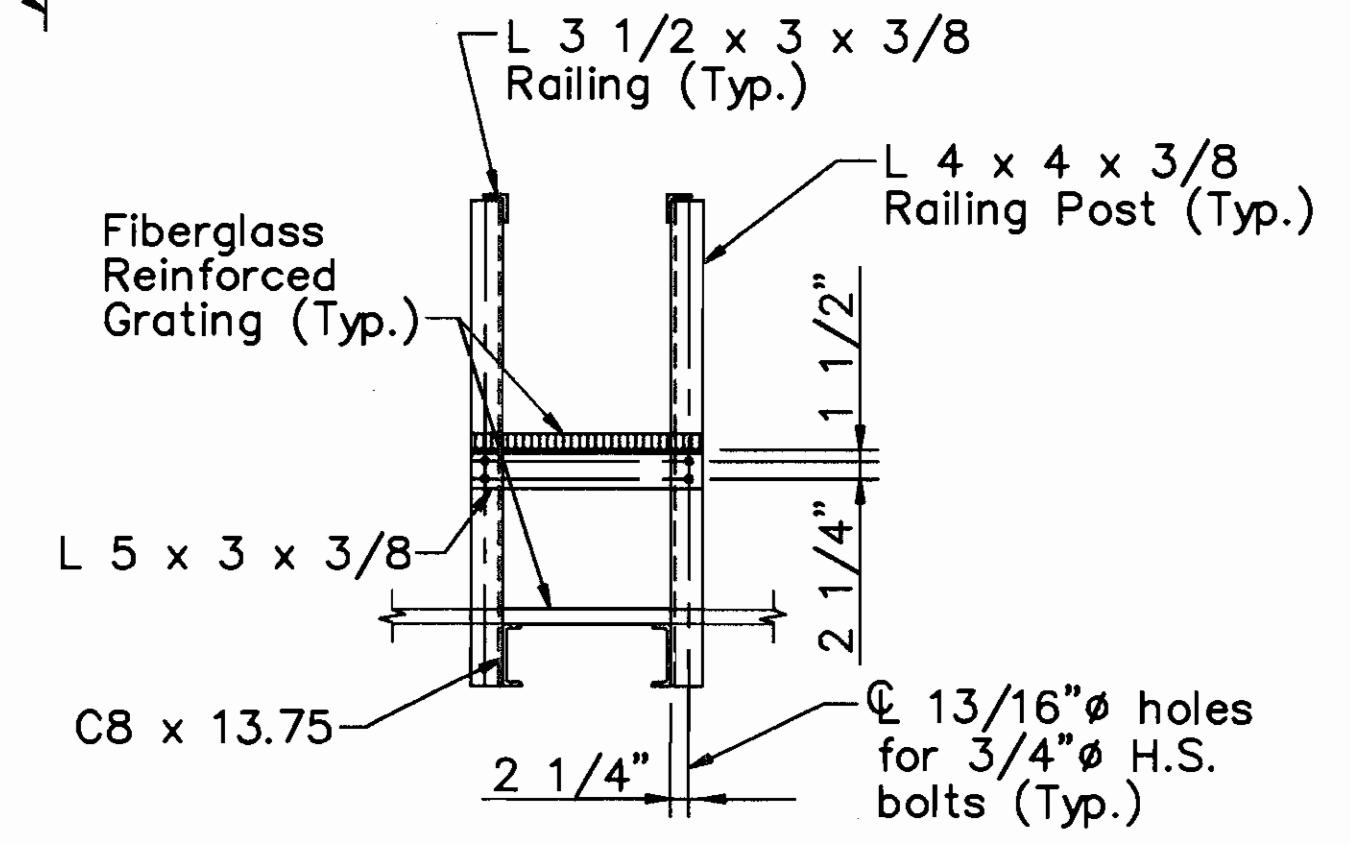
PLAN-DETAIL A
(Typical North Bay only)
(Detail between floorbeams 8' and 9' similar)
(Railing Angles not shown)



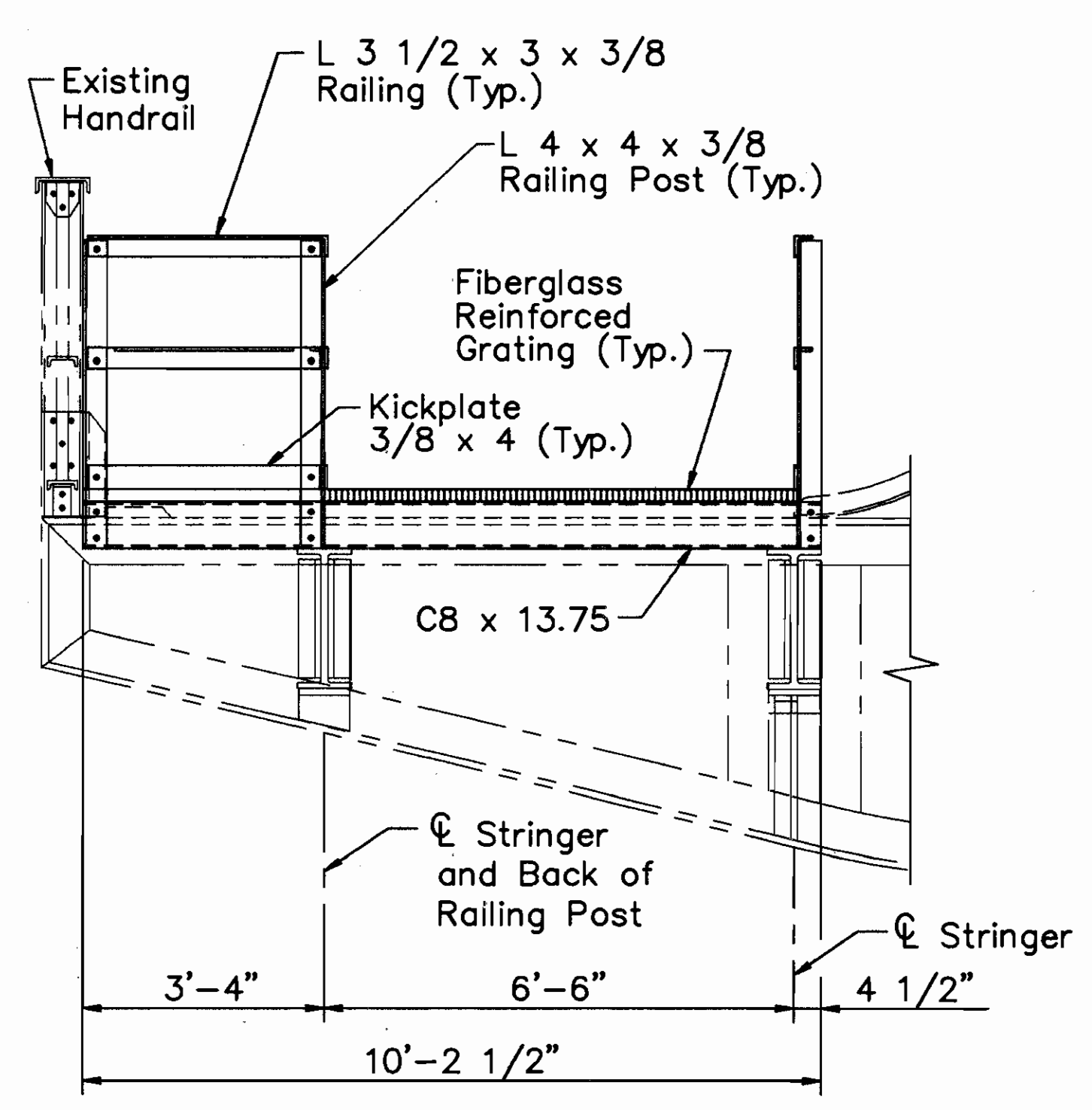
PLAN-DETAIL B
(Typical South Bay only)
(Detail between floorbeams 8 and 9 similar)
(Railing Angles not shown)



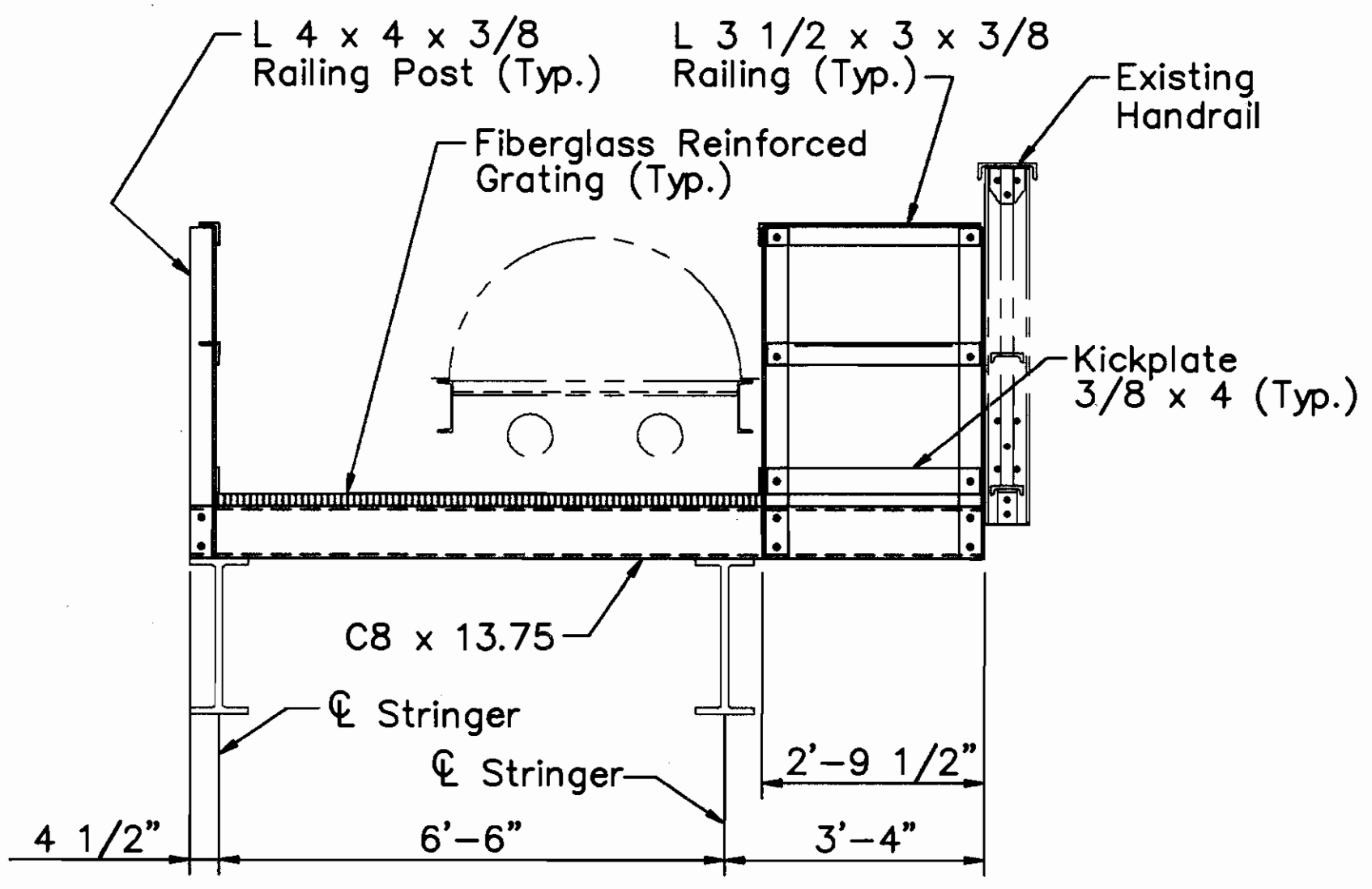
SECTION K-K



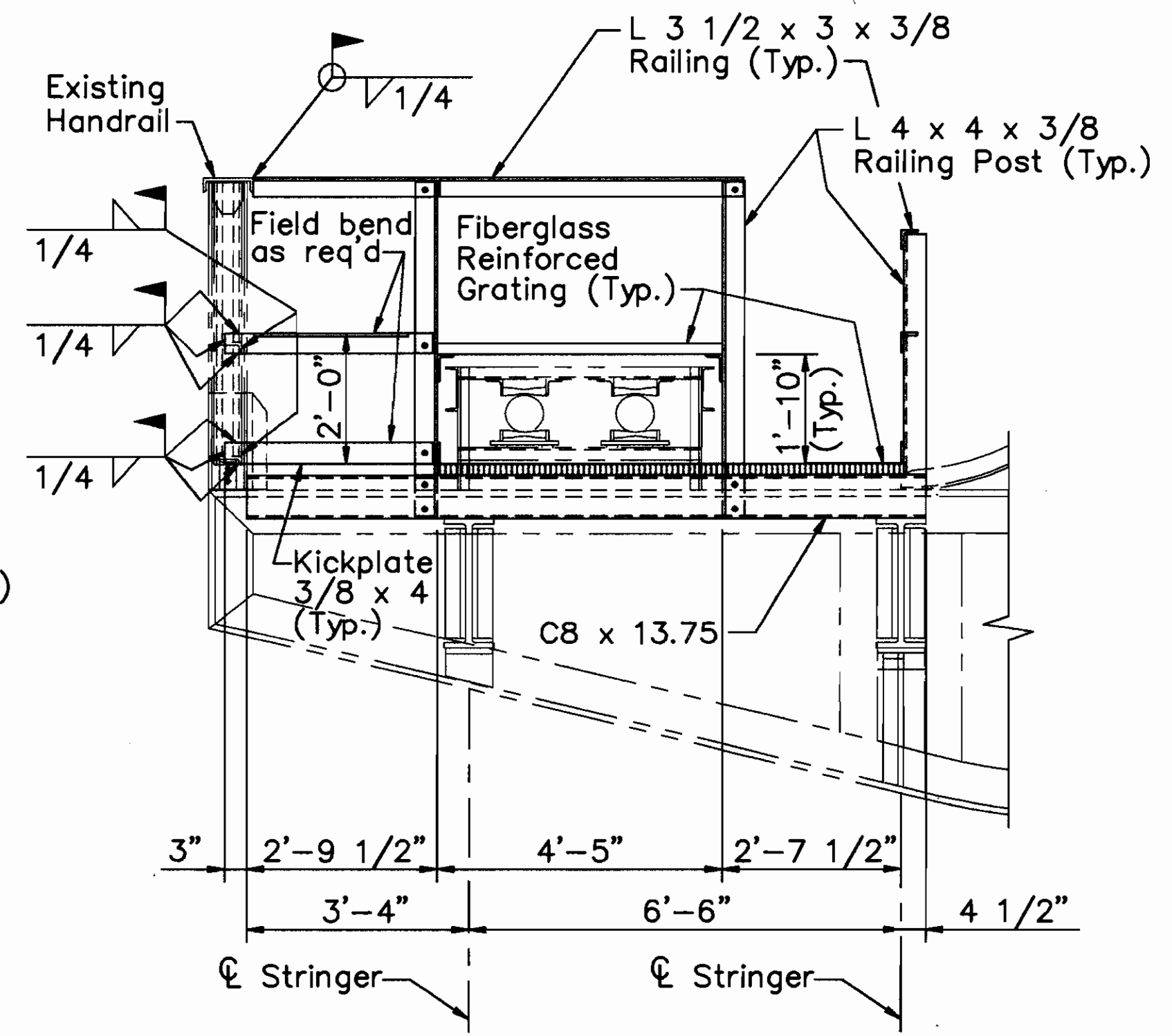
SECTION L-L
(CPP Lines not shown)



SECTION G-G



SECTION H-H



SECTION J-J

- NOTES:**
- For TYPICAL CATWALK CONNECTION DETAILS, See sheet 99/270.
 - For location of PLAN-DETAIL A and PLAN-DETAIL B, See sheet 99/270.
 - For additional Catwalk Details, See sheet 100/270.
 - For Utility Support Details, see sheets 232/270 and 233/270.
 - For additional Notes, See sheet 100/270.

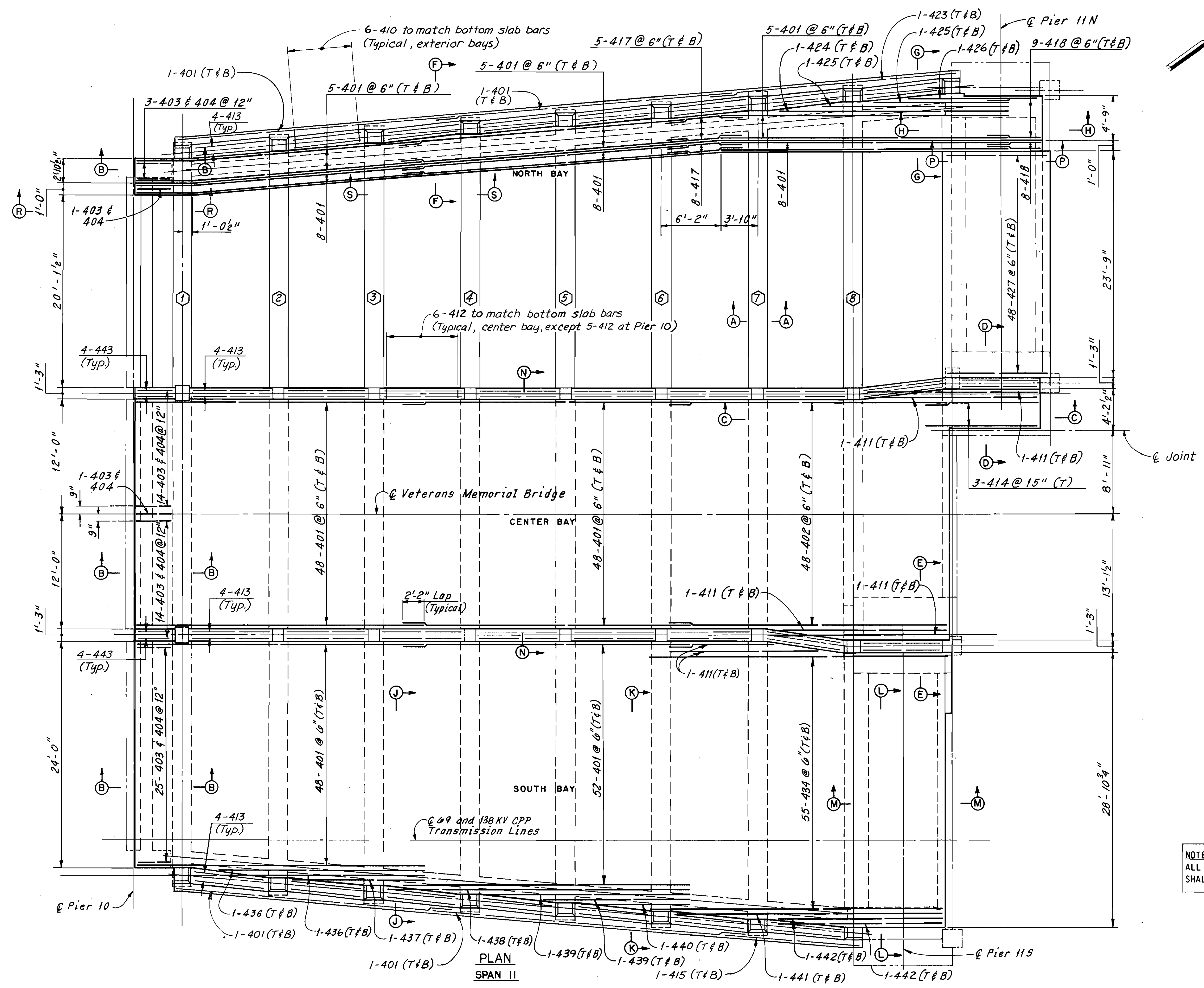
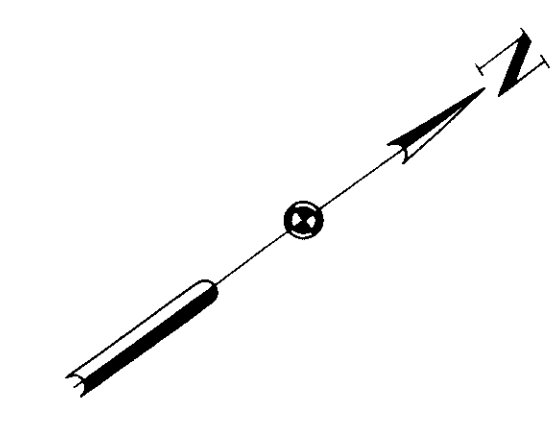
COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS **HNTB**

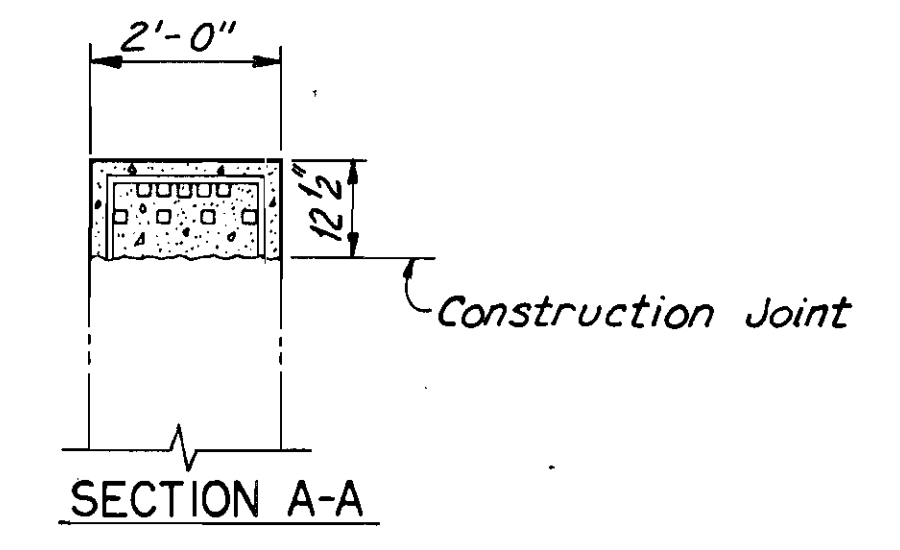
LOWER DECK DETAILS
SPAN 4
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
ADY	ADY	JLV	CAB	
DATE	DATE	DATE	DATE	DATE
03/24/94	03/24/94	03/31/94	04/05/94	

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NOTE:
TRANSVERSE REINFORCEMENT IS NOT SHOWN ON THIS SHEET.
SEE LONGITUDINAL SECTIONS, SHEET 104/270 FOR TRANSVERSE REINFORCEMENT.



NOTES:
 FOR SECTIONS B-B THRU N-N, SEE SHEET 103/270
 FOR TYPICAL LONGITUDINAL SECTIONS AND SECTIONS P-P THRU S-S, SEE SHEET 104/270
 THE FOLLOWING ABBREVIATIONS ARE USED:
 T = TOP
 B = BOTTOM
 --- INDICATES EXISTING STRUCTURE
 ○ INDICATES FLOORBEAM DESIGNATION

NOTE:
 ALL REINFORCING BAR MARKS SHALL BE PREFIXED 11LES

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS **HNTB**

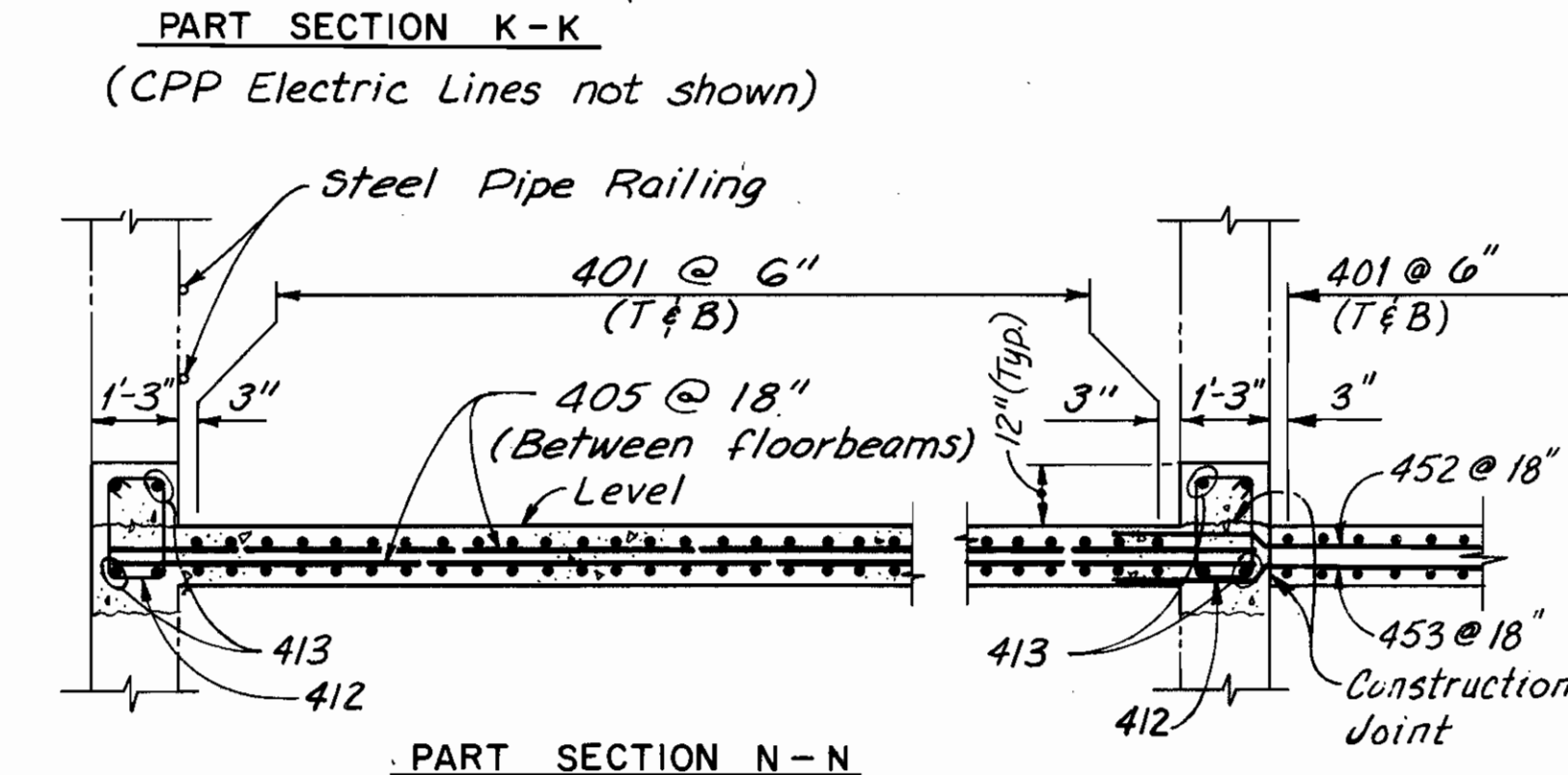
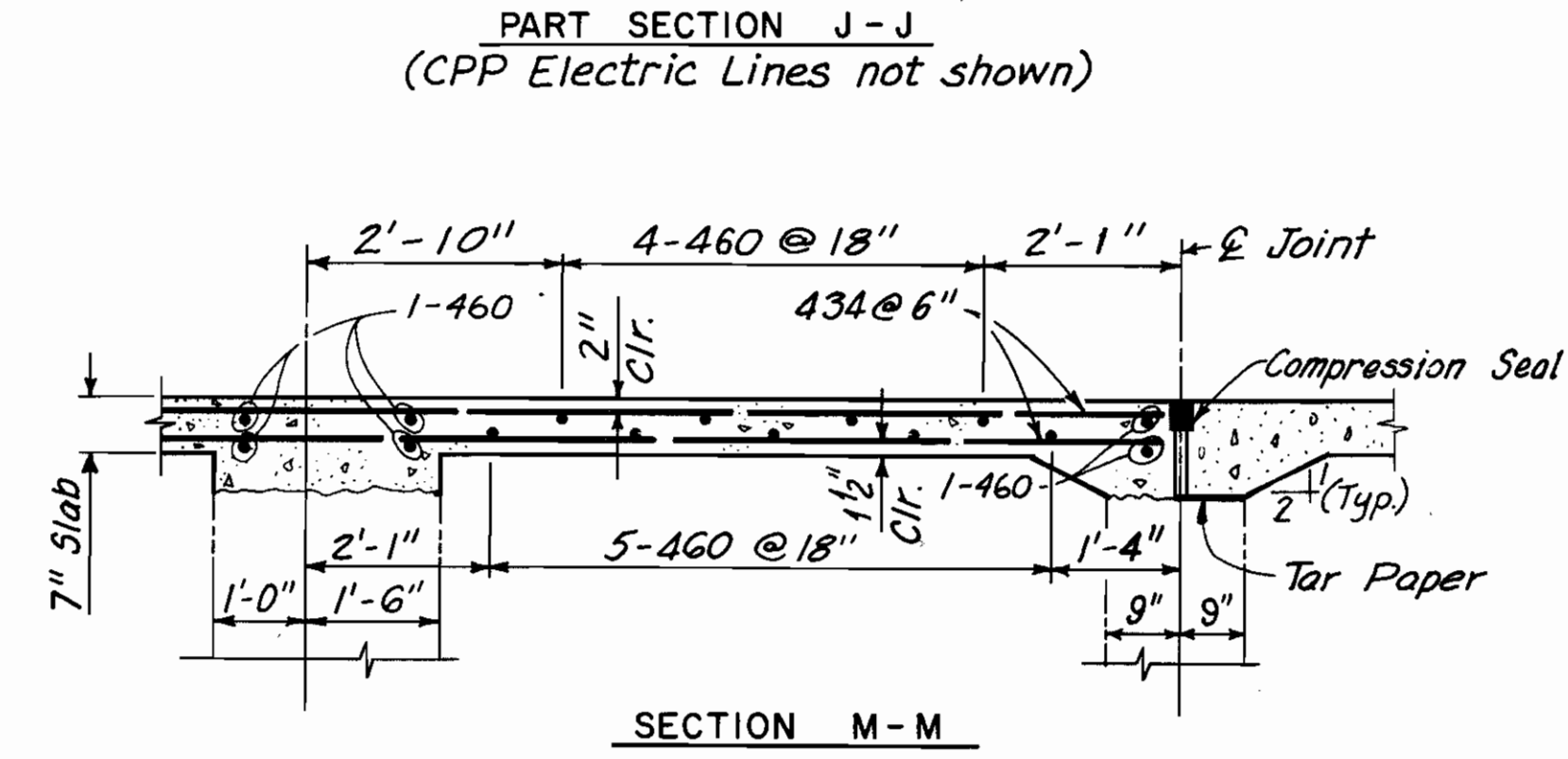
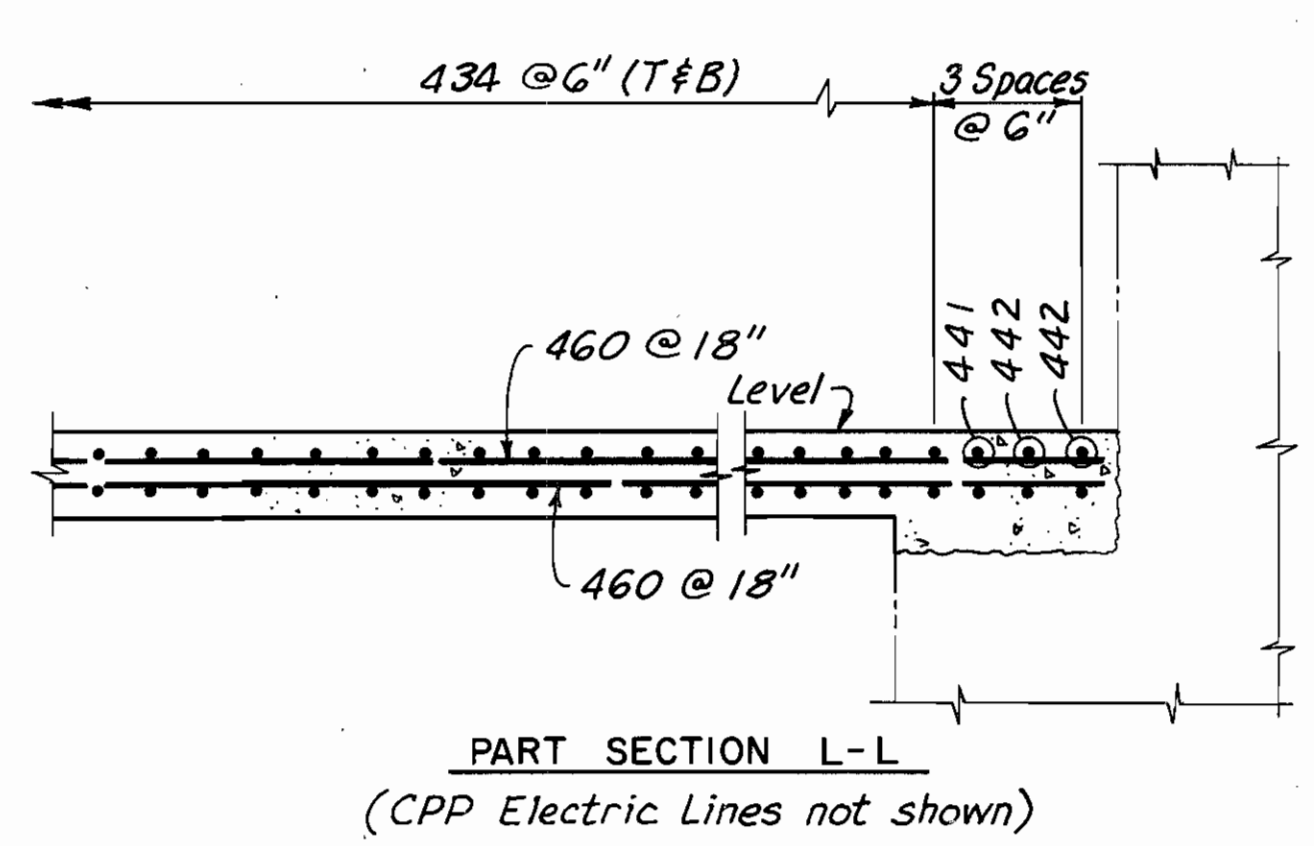
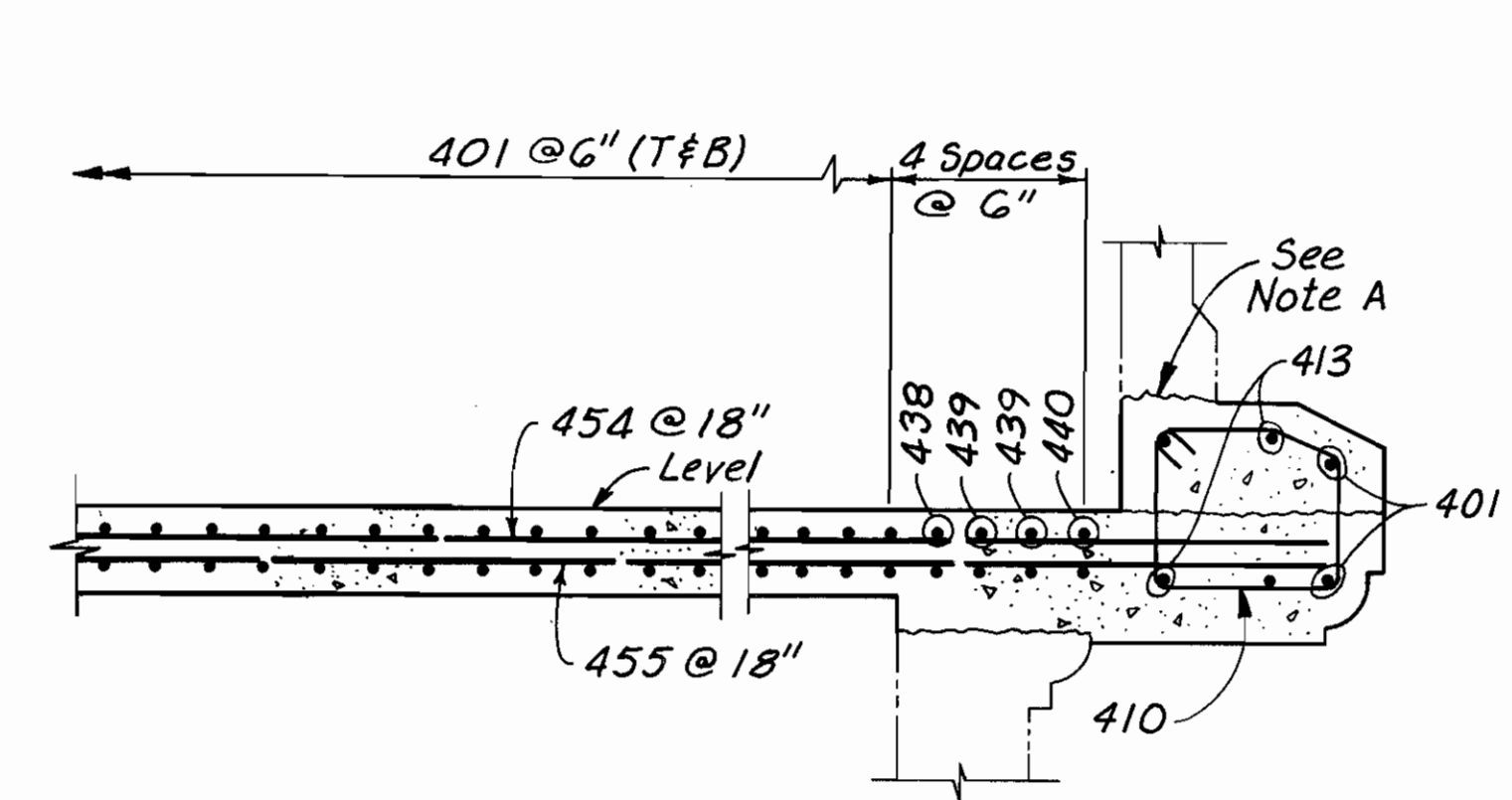
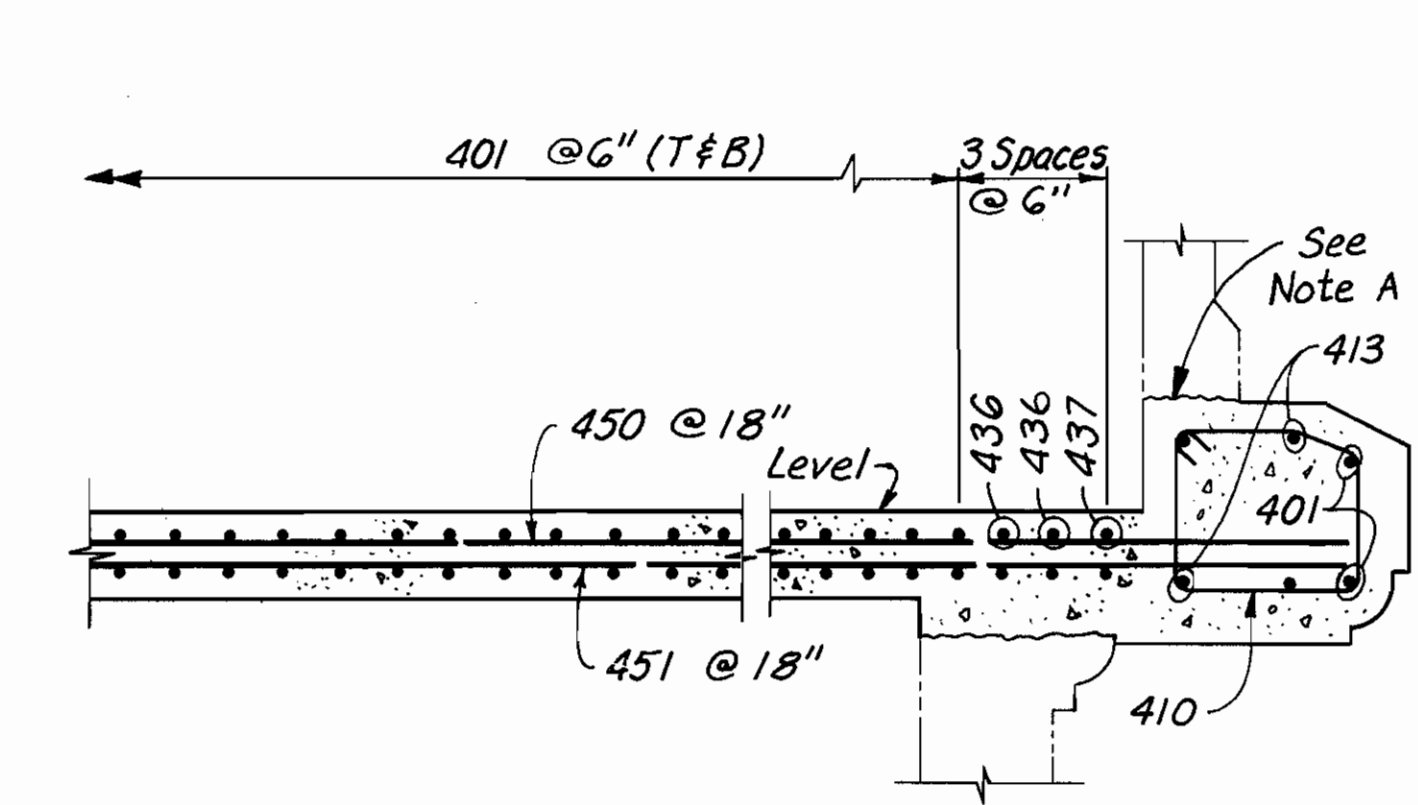
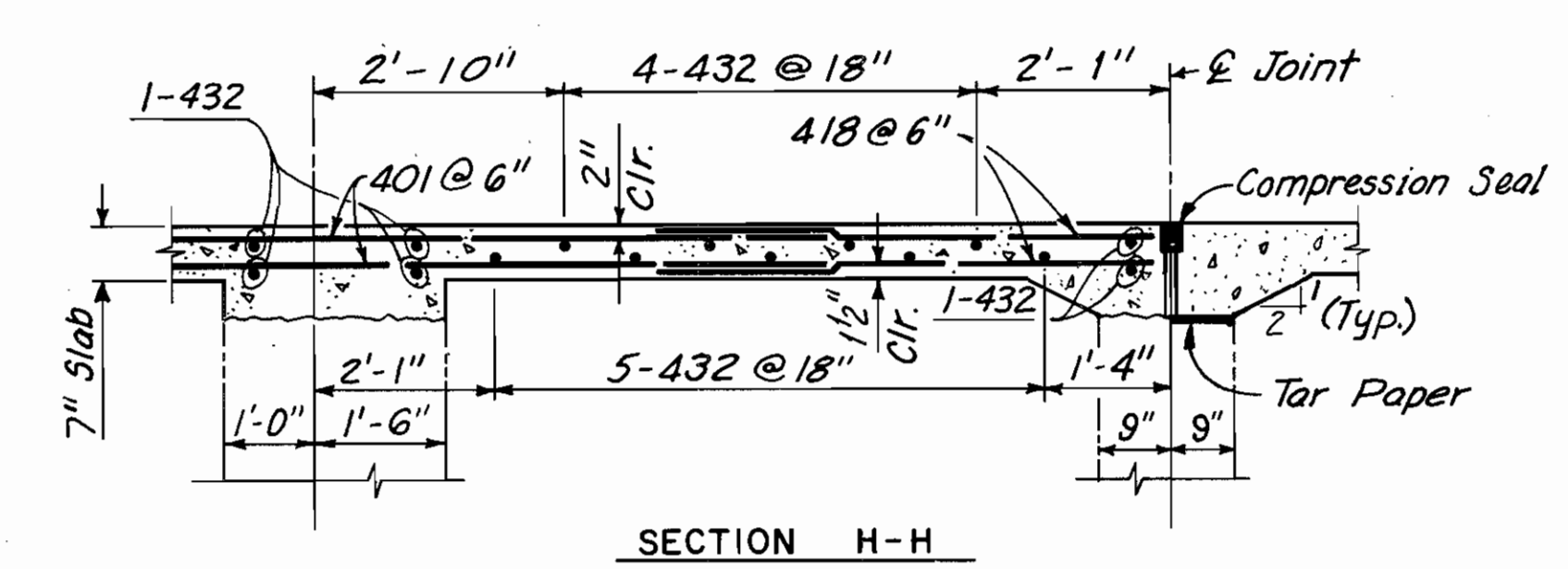
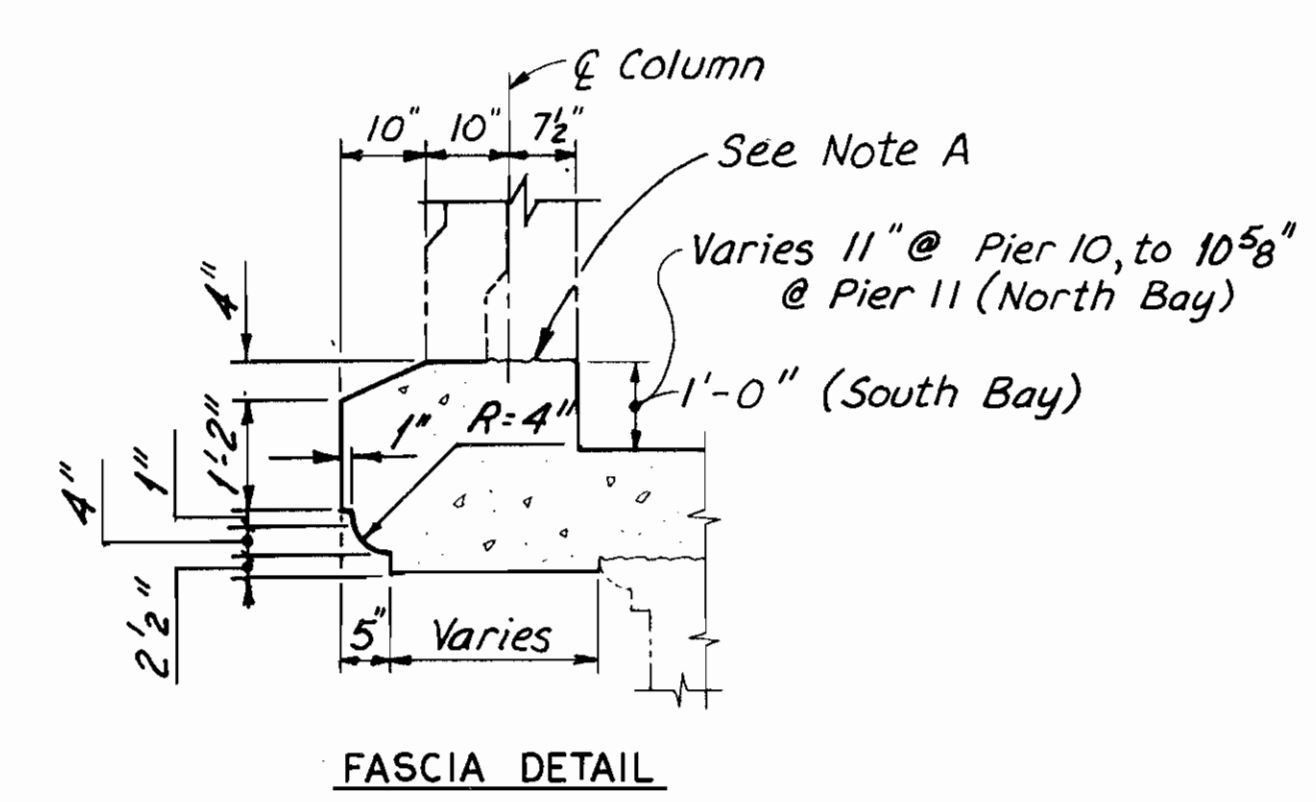
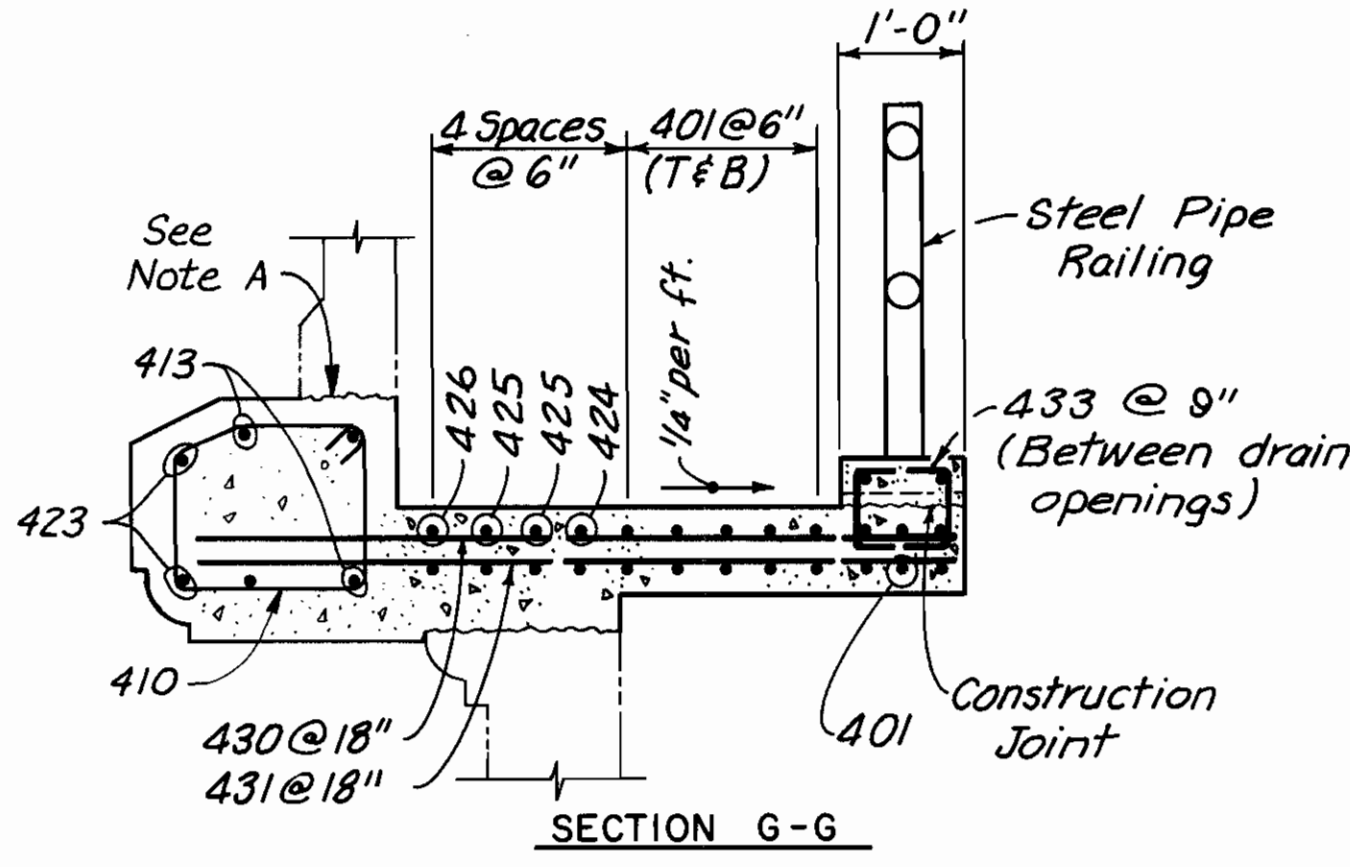
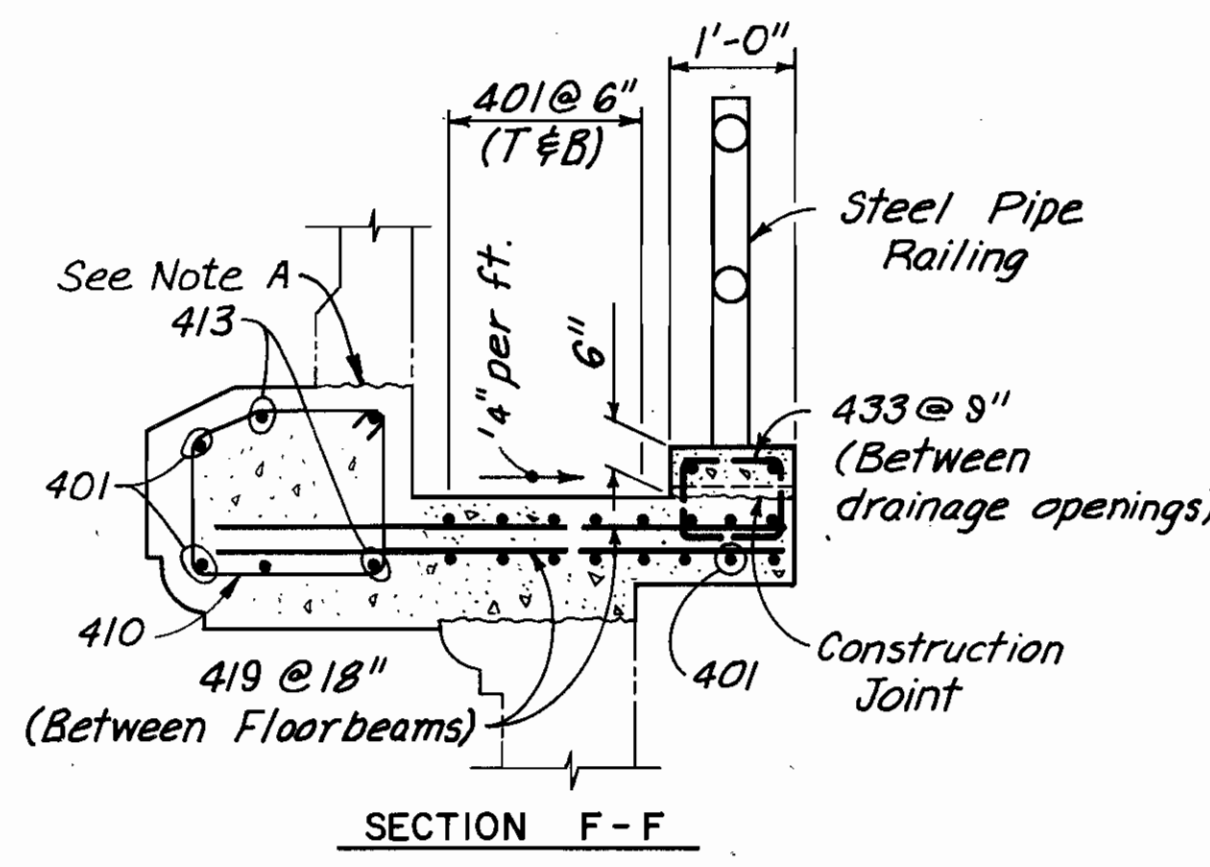
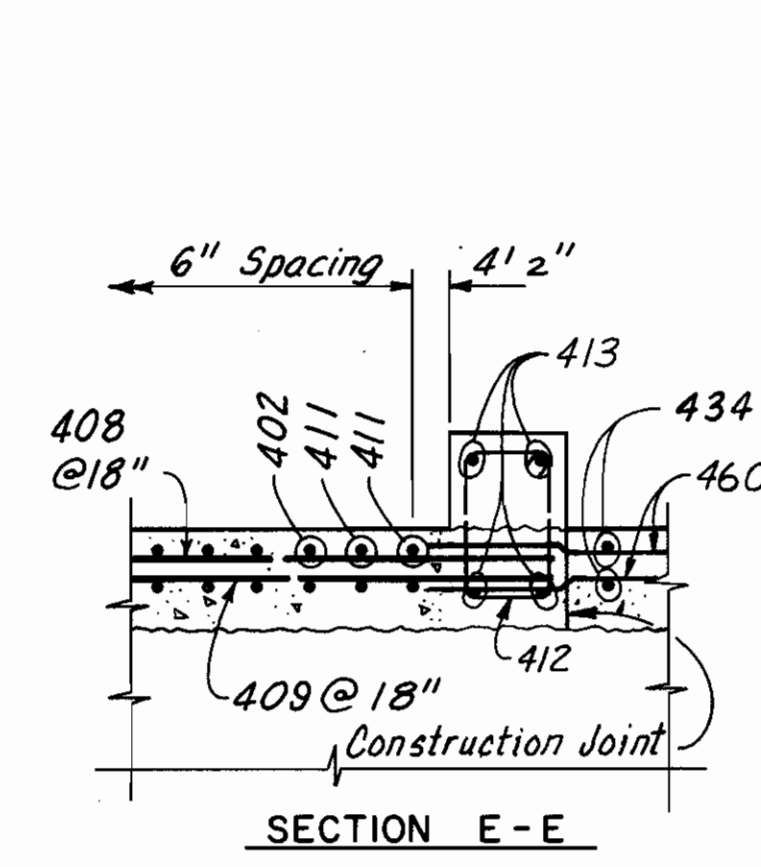
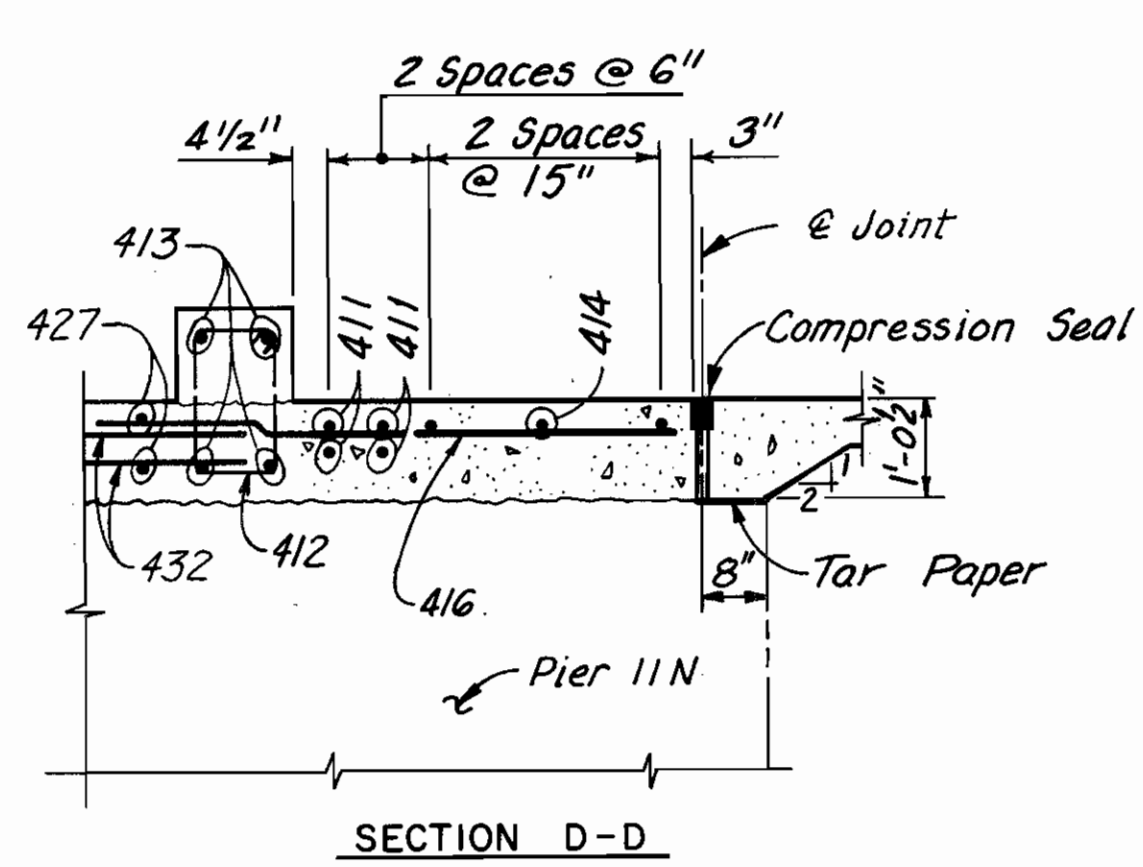
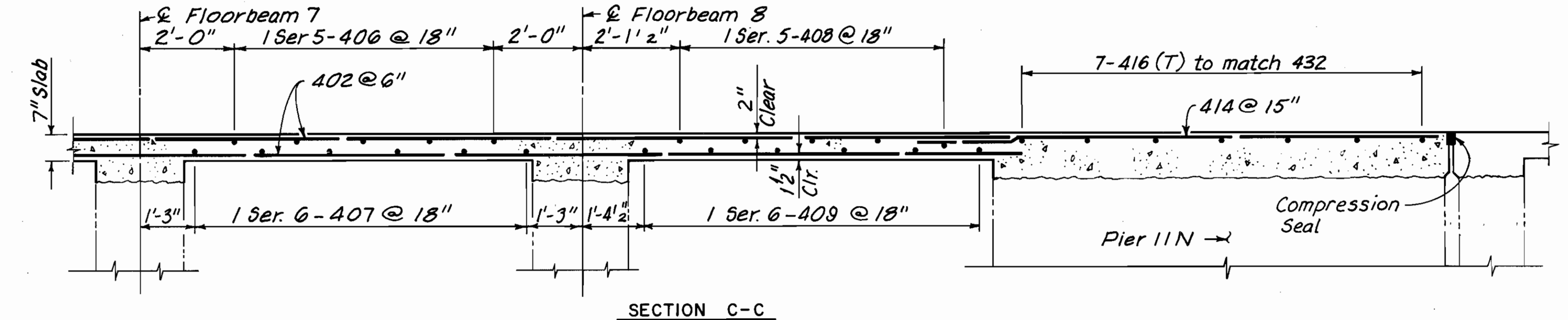
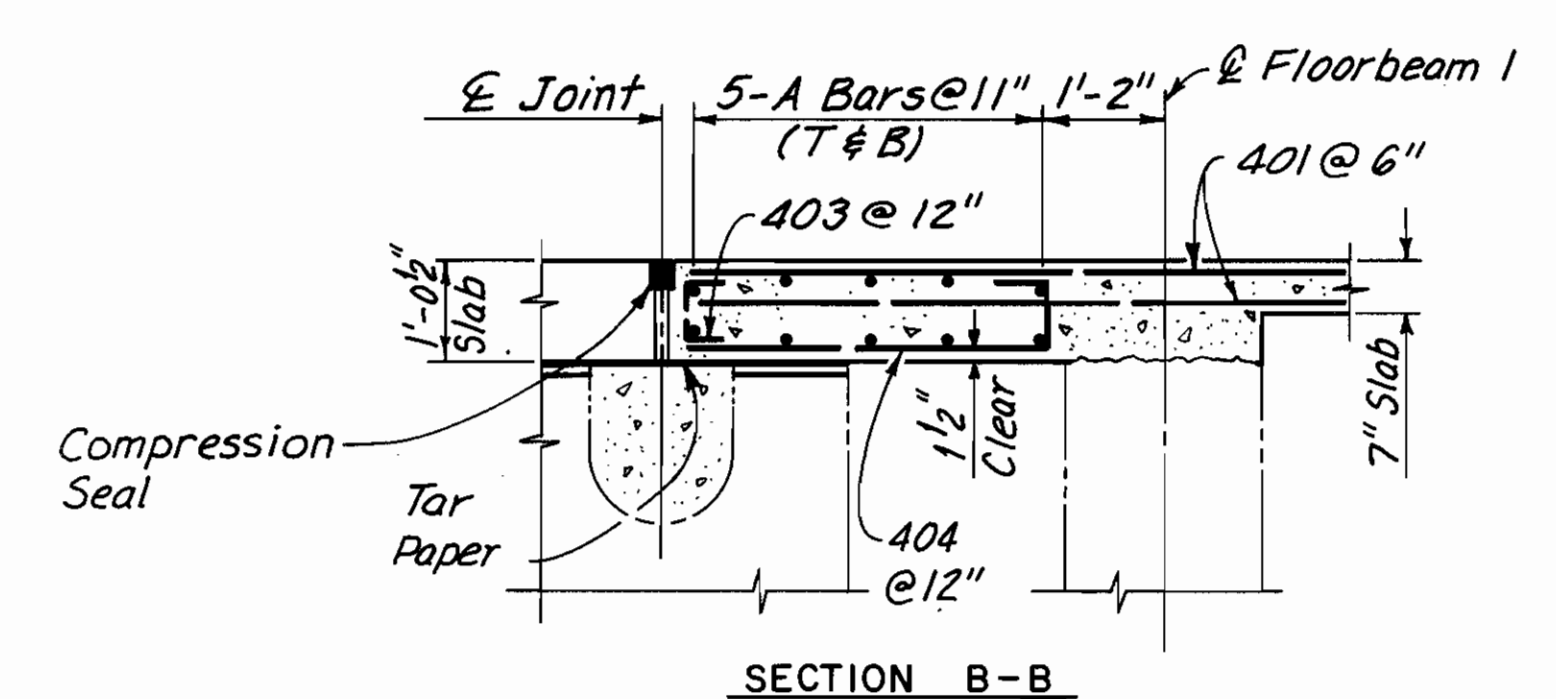
LOWER DECK PLAN
SPAN 11
 BR. NO. CUY - 6 - 1499
 REHABILITATION OF
 VETERANS MEMORIAL BRIDGE
 (U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
 CLEVELAND CUYAHOGA COUNTY OHIO

DRANN	TRACED	CHECKED	REVIEWED	REVISION
C.K.B.	C.E.P.	W.J.V.	C.A.B.	
DATE	DATE	DATE	DATE	
12/8/90	12/8/90	1/29/91	4/5/94	

SHEET 102/270

Note A:
At locations where railing is not replaced, epoxy inject interface of existing lower deck railing and new lower deck curb.

A BAR MARKS	
LOCATION	A BAR
CENTER BAY	405
NORTH BAY	419
SOUTH BAY	435



NOTE:
ALL REINFORCING BAR MARKS SHALL BE PREFIXED 11LES

NOTES:
FOR LOCATION OF SECTIONS, SEE SHEET 102/270.
FOR DETAILS OF COMPRESSION SEAL, SEE SHEET 224/270.
THE FOLLOWING ABBREVIATIONS ARE USED:
T = TOP
B = BOTTOM
--- INDICATES EXISTING STRUCTURE.

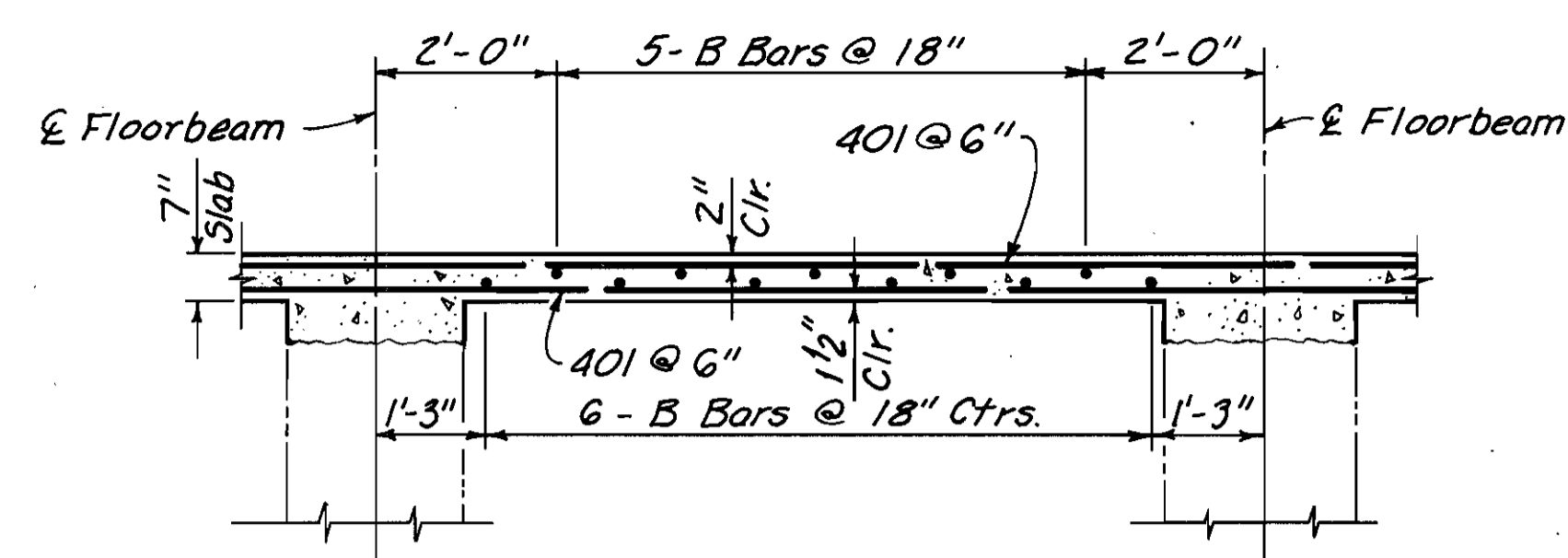
COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

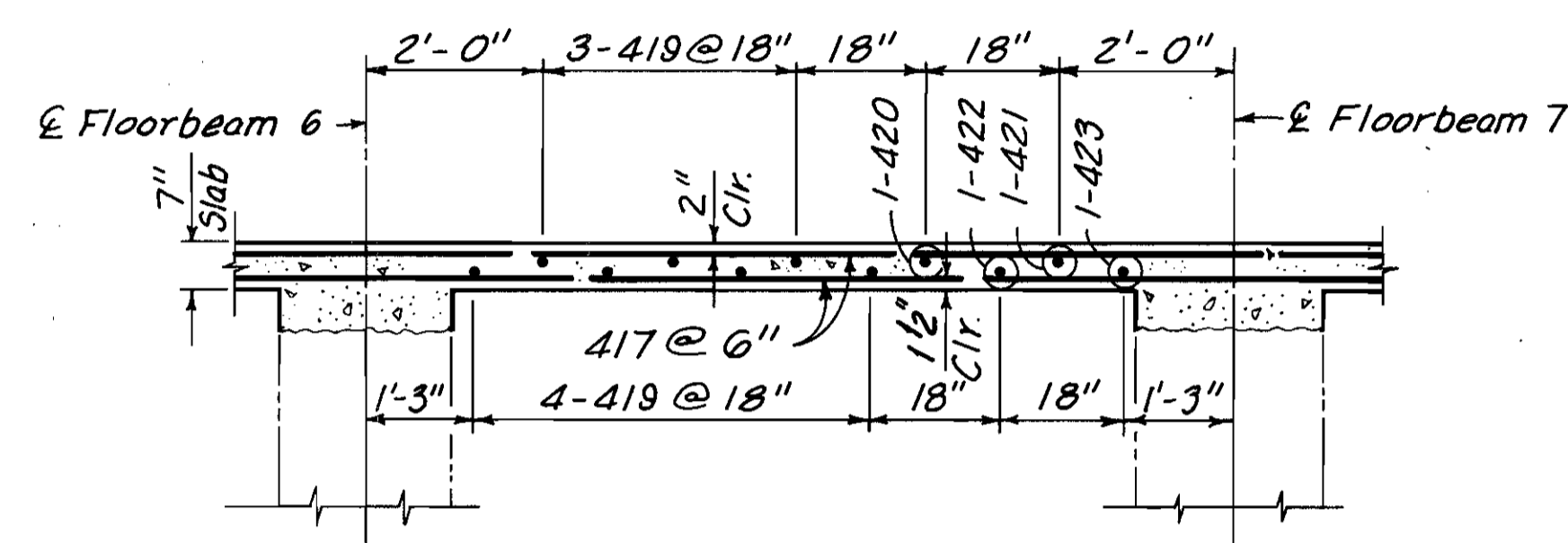
LOWER DECK SECTIONS
SPAN 11
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISION
C.K.B.	G.C.A.	W.J.V.	C.A.B.	
DATE	DATE	DATE	DATE	
12/13/90	12/15/90	1/29/91	4/5/94	

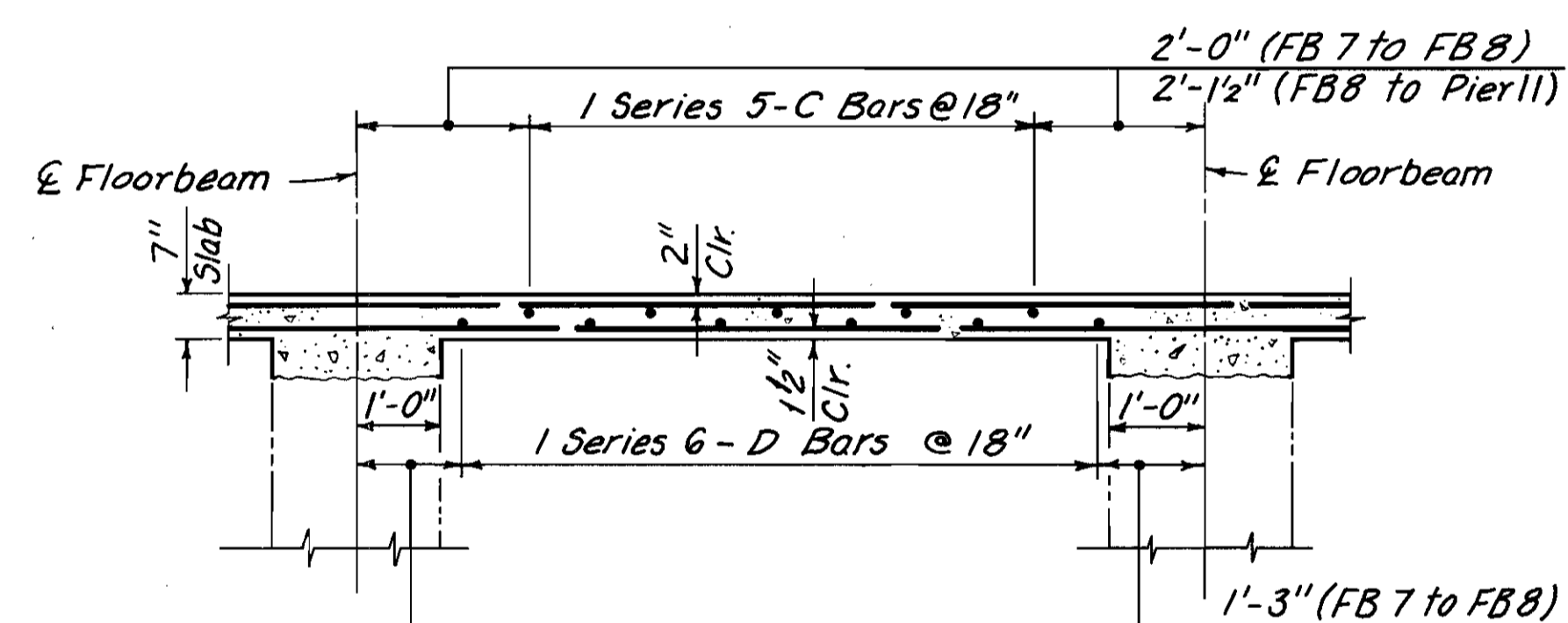
SHEET 103/270



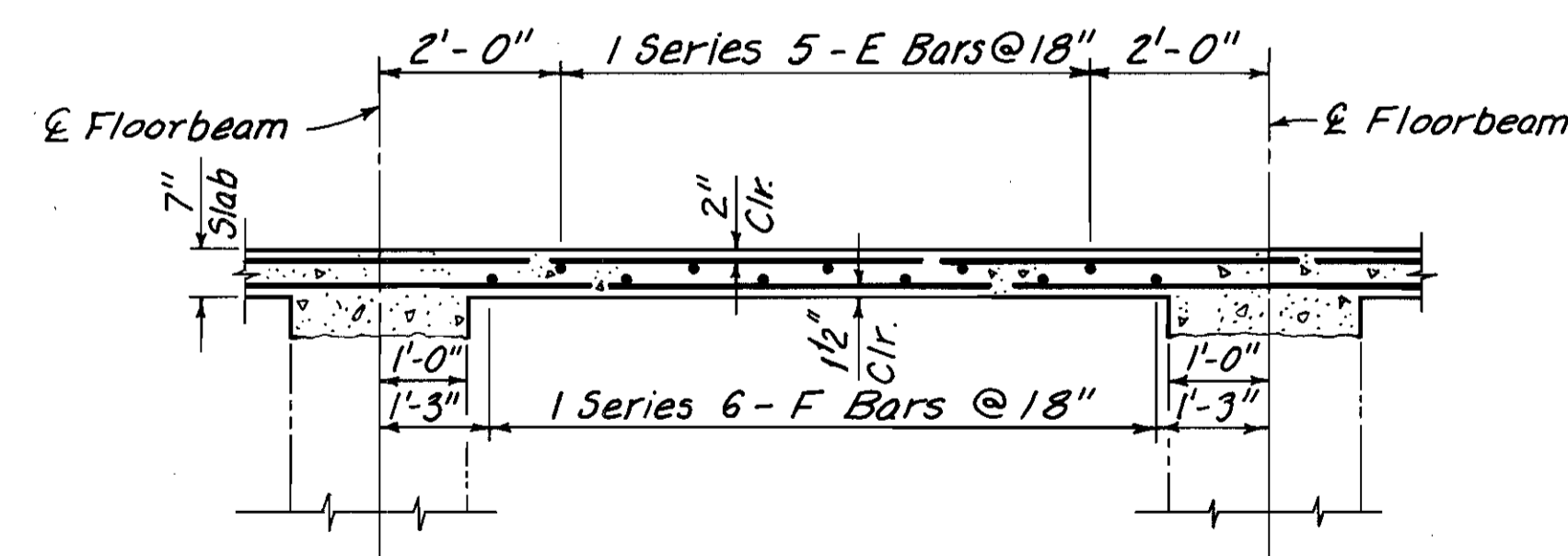
FB 1 TO FB 7 (CENTER BAY)
FB 1 TO FB 6 (NORTH BAY)



FB 6 TO FB 7 (NORTH BAY)

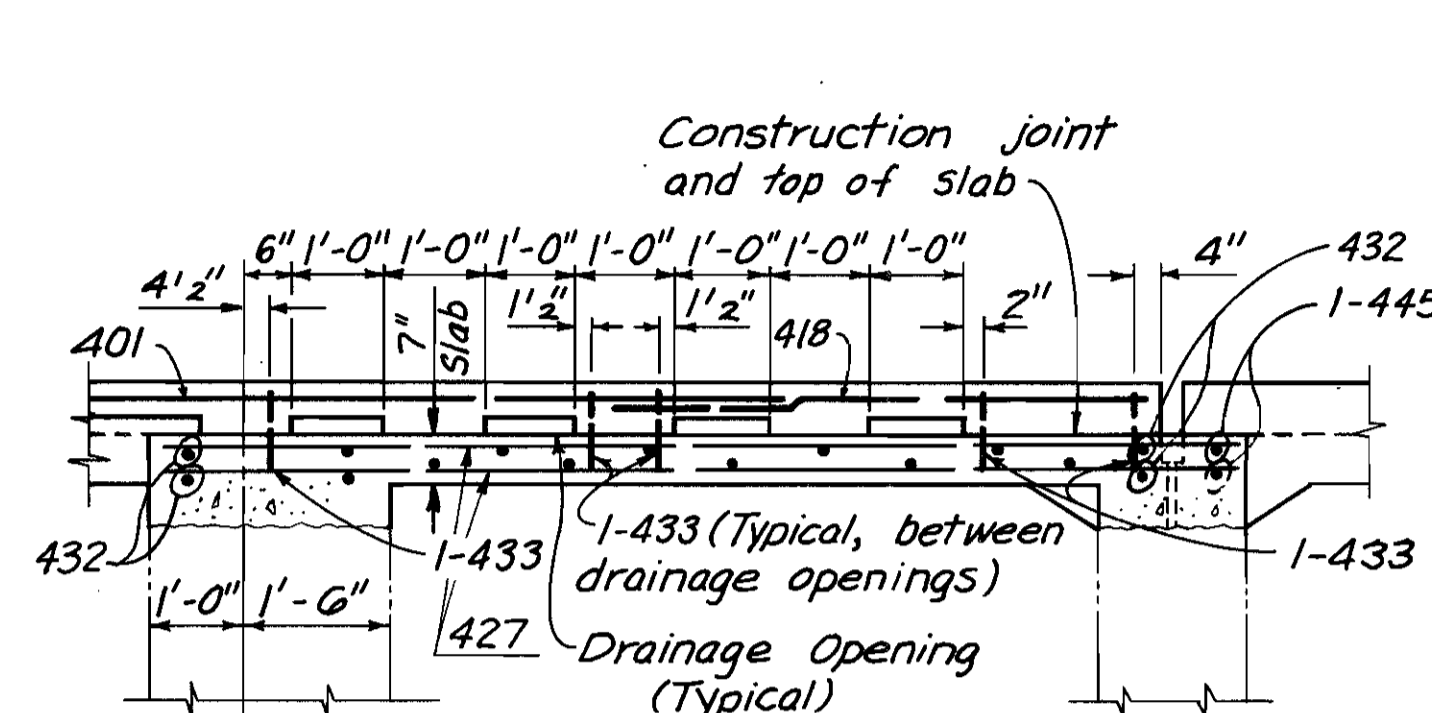


FB 7 TO PIER 11N (NORTH BAY)

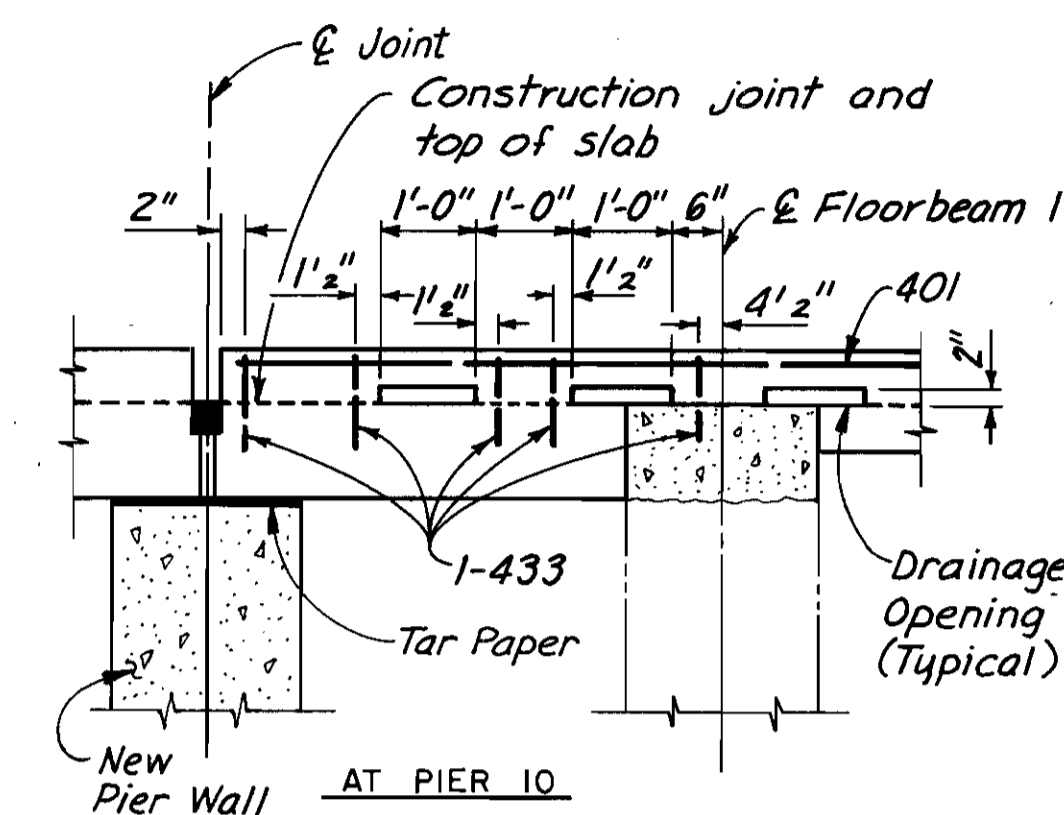


FB 1 TO PIER 11S (SOUTH BAY)

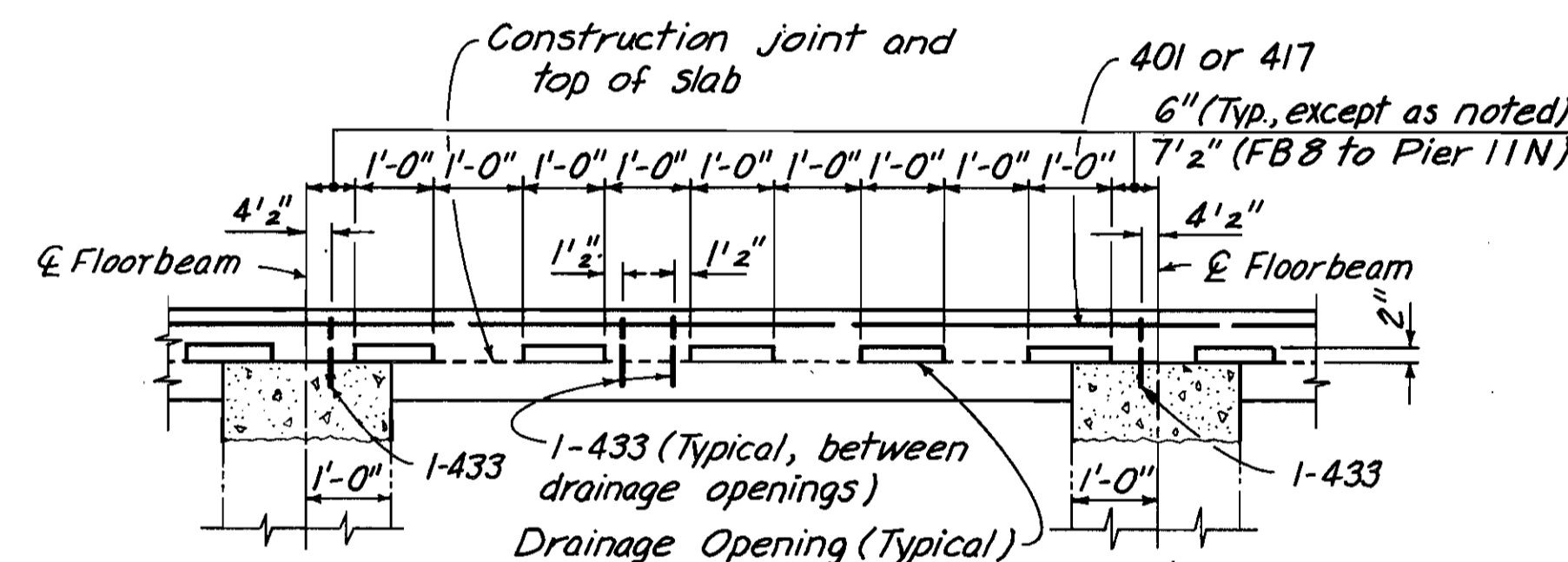
TYPICAL LONGITUDINAL SECTIONS



AT PIER 11N
SECTION P-P
(Railing Not Shown)



AT PIER 10
SECTION R-R
(Railing Not Shown)



TYPICAL INTERIOR BAY
SECTION S-S
(Railing Not Shown)

B BAR MARKS	
LOCATION	B BAR
CENTER BAY	405
NORTH BAY	419

C BAR AND D BAR MARKS		
LOCATION	C BAR	D BAR
FB7 TO FB8	428	429
FB8 TO PIER 11N	430	431

E BAR AND F BAR MARKS		
LOCATION	E BAR	F BAR
FB1 TO FB2	446	447
FB2 TO FB3	448	449
FB3 TO FB4	450	451
FB4 TO FB5	452	453
FB5 TO FB6	454	455
FB6 TO FB7	456	457
FB7 TO PIER 11S	458	459

NOTE:
ALL REINFORCING BAR MARKS
SHALL BE PREFIXED 11LES

NOTES:
FOR LOCATION OF SECTIONS, SEE SHEET 102/270

THE FOLLOWING ABBREVIATION IS USED:

FB = FLOORBEAM

----- INDICATES EXISTING STRUCTURE

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS



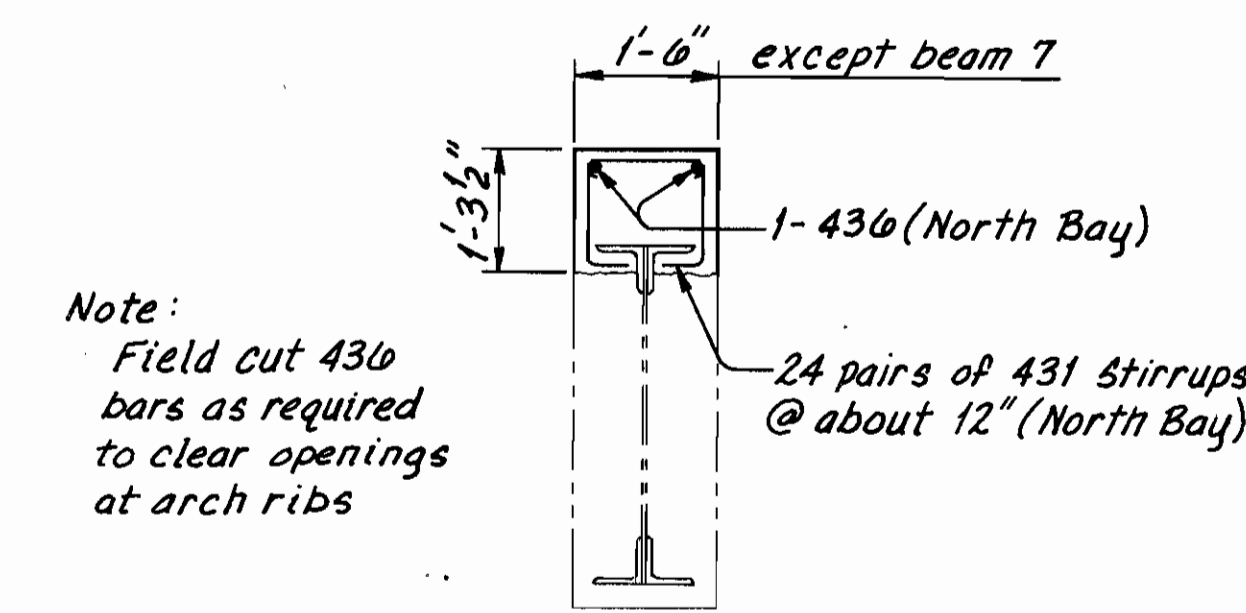
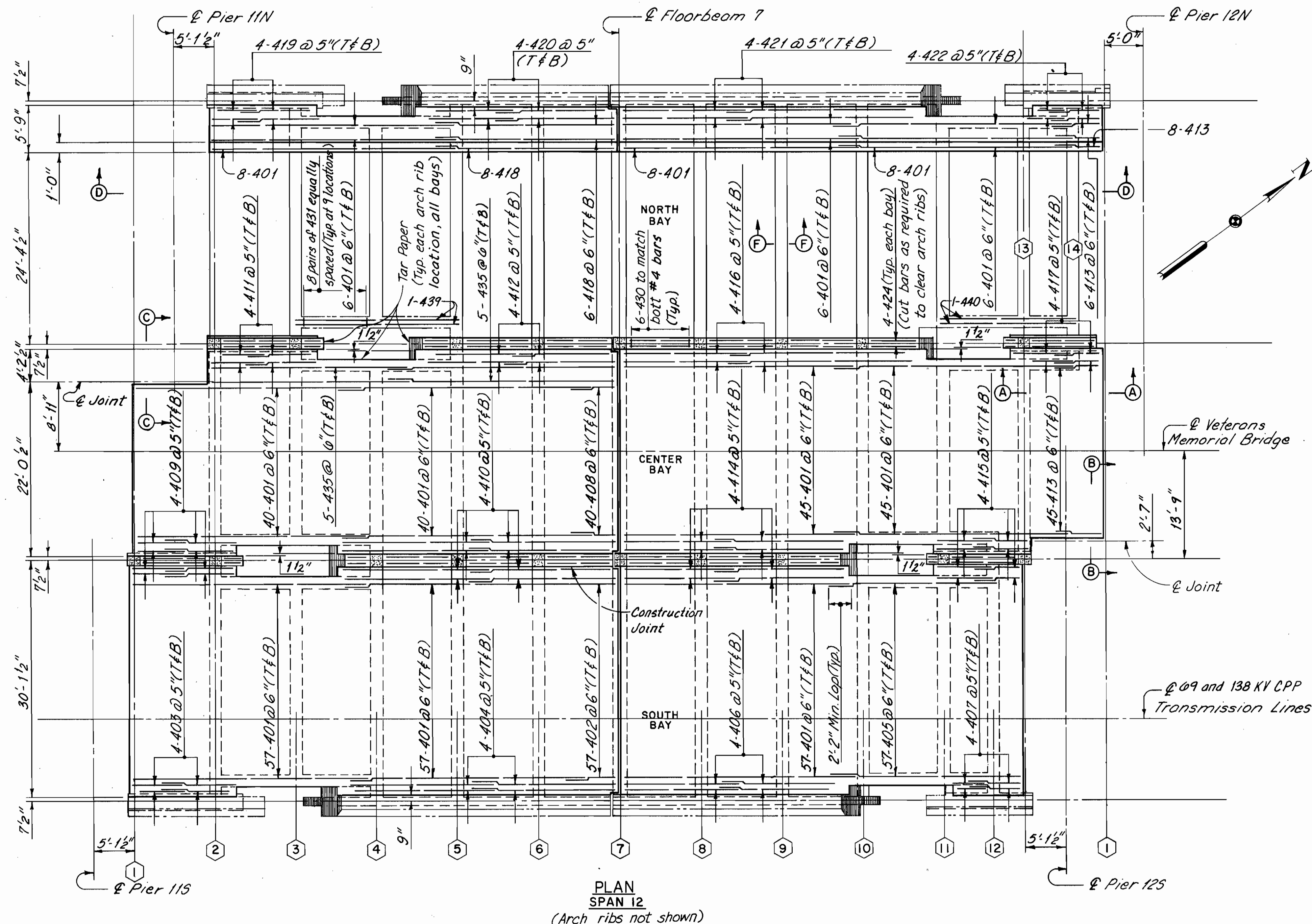
LOWER DECK SECTIONS
SPAN 11
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
C.K.B.	G.C.A.	W.J.V.	C.A.B.	
DATE 12/13/90	DATE 12/17/90	DATE 1/28/91	DATE 4/5/94	

CUYAHOGA COUNTY
CUY - 6 - 14.99

NOTE:

TRANSVERSE REINFORCEMENT IS NOT SHOWN ON THIS SHEET. SEE LONGITUDINAL SECTIONS, SHEET 106/270 FOR TRANSVERSE REINFORCEMENT.



Note: Field cut 436 bars as required to clear openings at arch ribs

SECTION F-F
(Typ except beam 7)

NOTE: ALL REINFORCING BAR MARKS SHALL BE PREFIXED 12LES

NOTES: FOR SECTION D-D, SEE SHEET 107/270

FOR TYPICAL LONGITUDINAL SECTIONS AND SECTIONS A-A THRU C-C, SEE SHEET 106/270

THE FOLLOWING ABBREVIATIONS ARE USED:

- T = TOP
- B = BOTTOM
- INDICATES EXISTING STRUCTURE
- ⊙ INDICATES FLOORBEAM DESIGNATION

PLAN SPAN 12
(Arch ribs not shown)

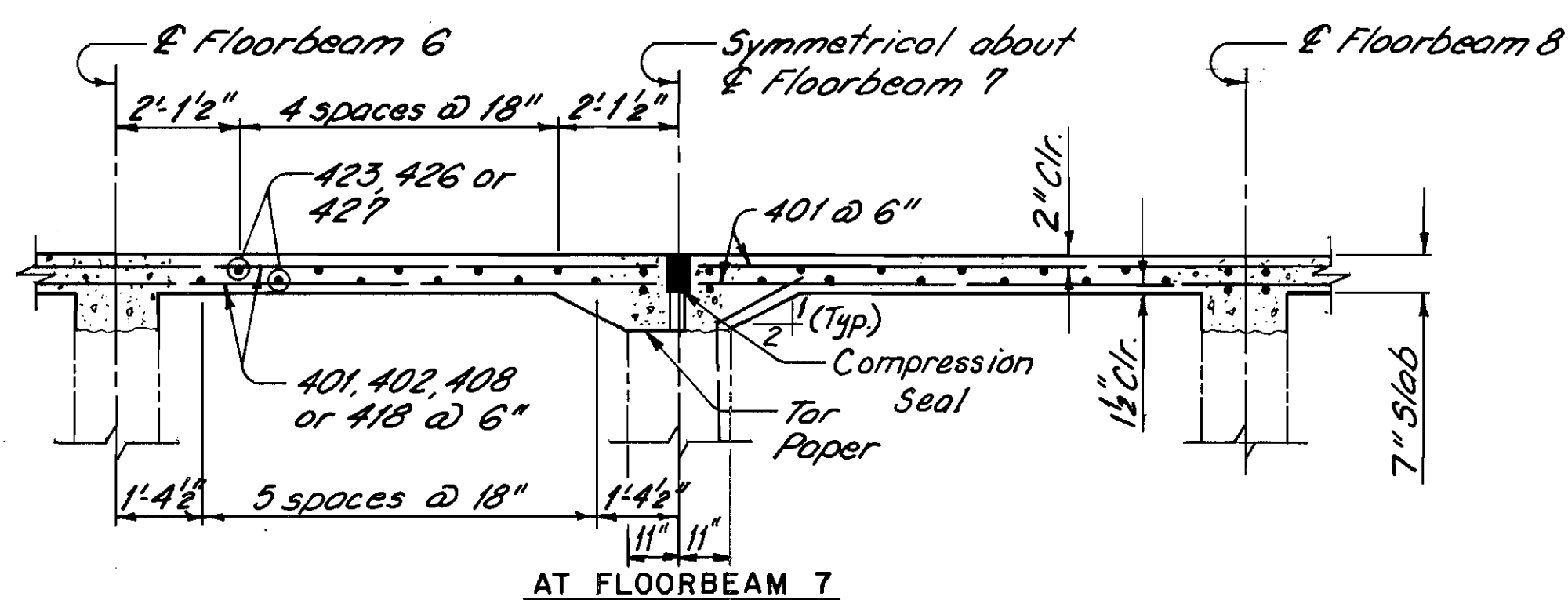
COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

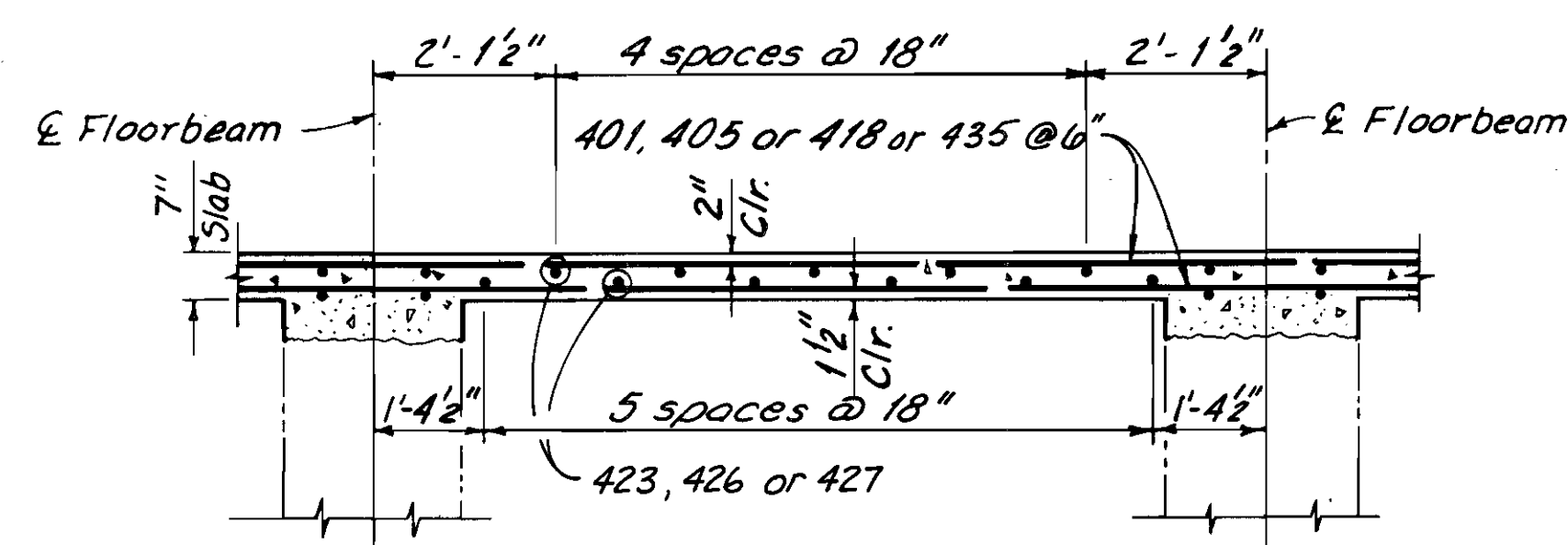
LOWER DECK PLAN
SPAN 12
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN J.O.L.	TRACED J.L.V.	CHECKED W.J.V.	REVIEWED C.A.B.	REVISED
DATE 3/10/92	DATE 5/5/92	DATE 5/6/92	DATE 4/8/94	SHEET 105/270

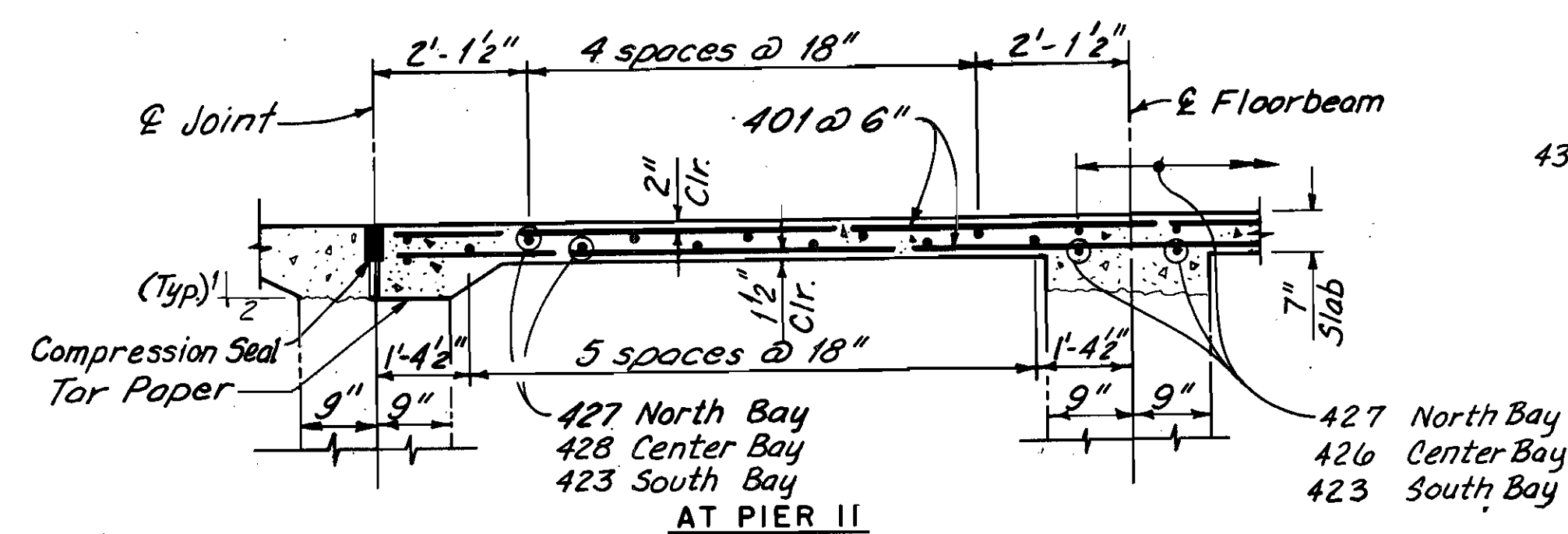
CUYAHOGA COUNTY
CUY - 6 - 14.99



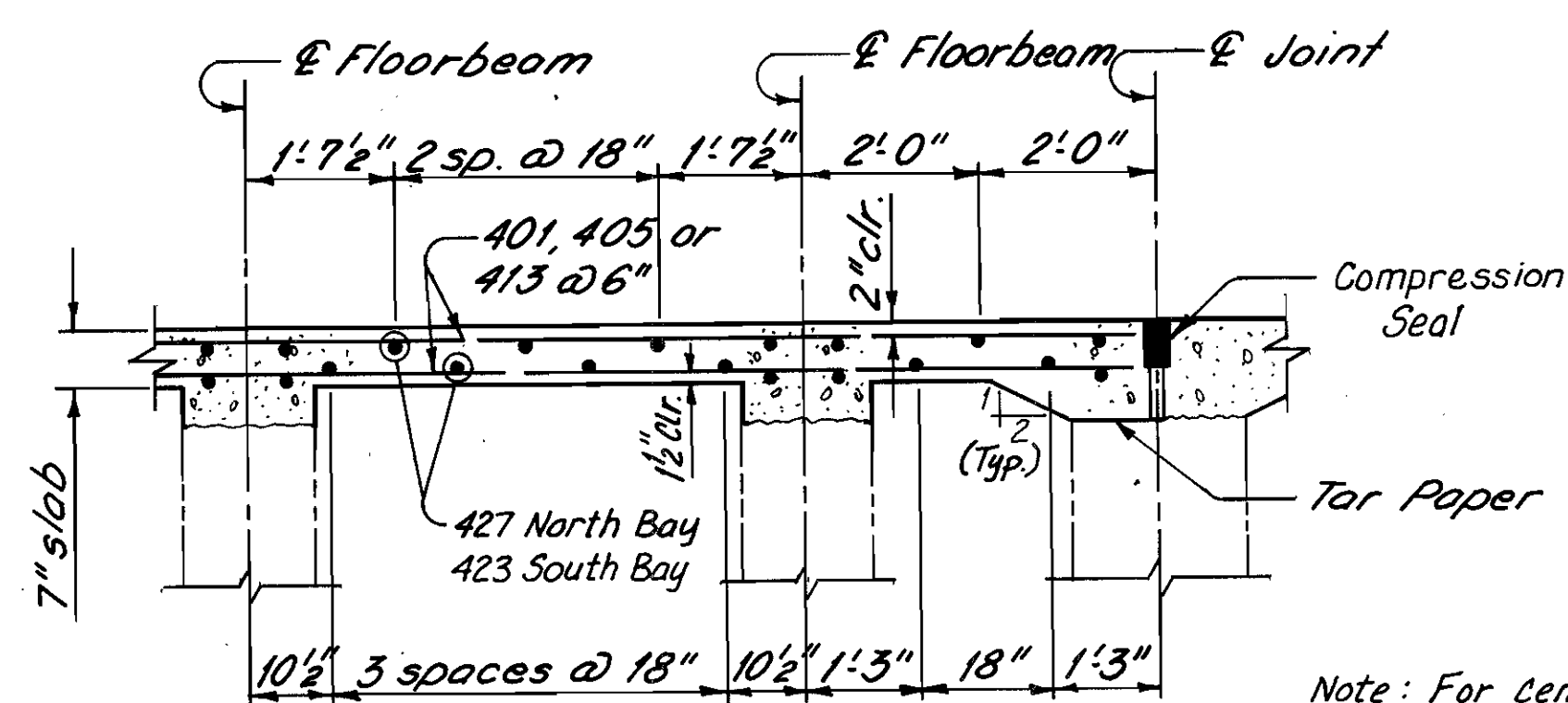
AT FLOORBEAM 7



INTERIOR BAY



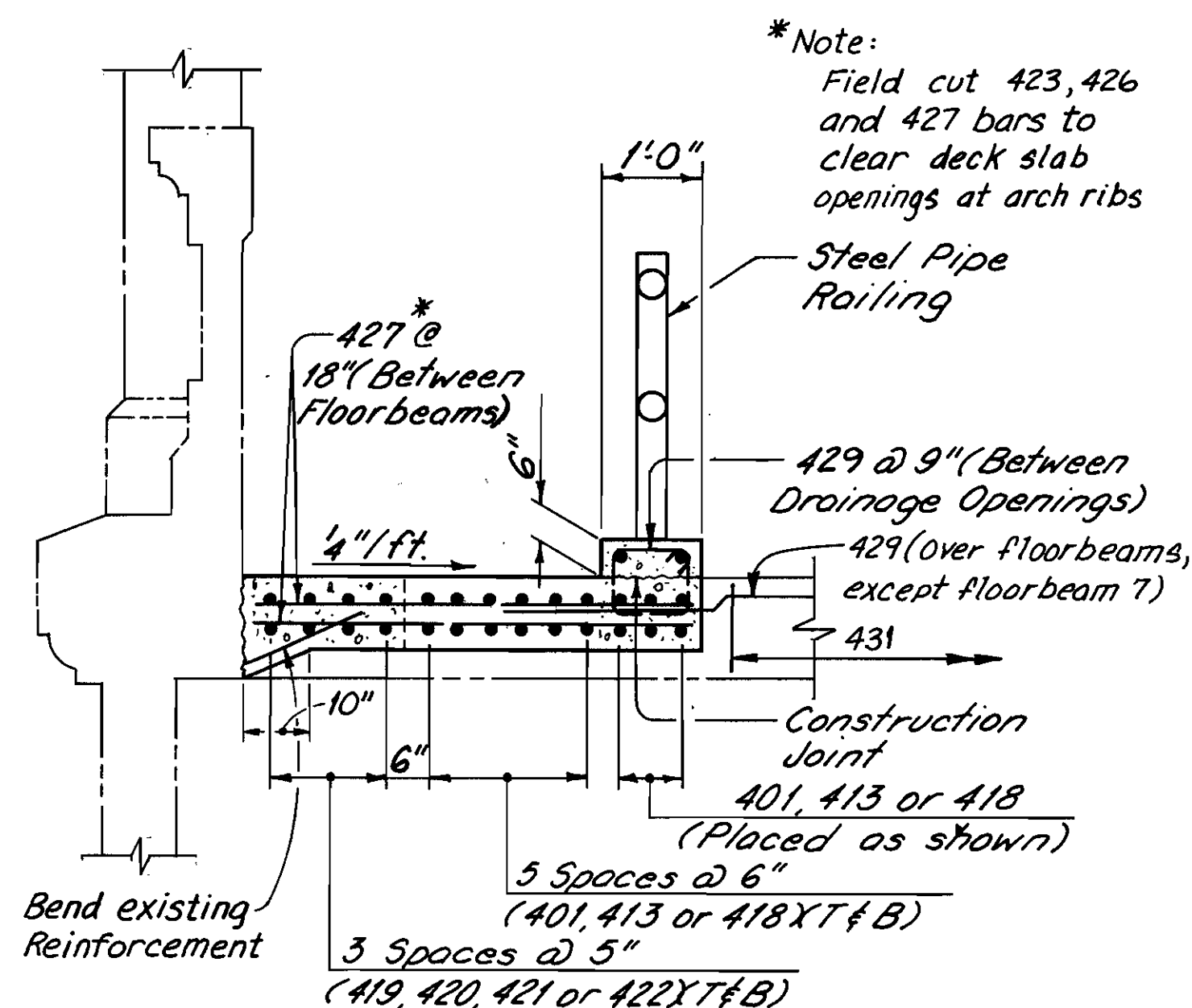
AT PIER 11



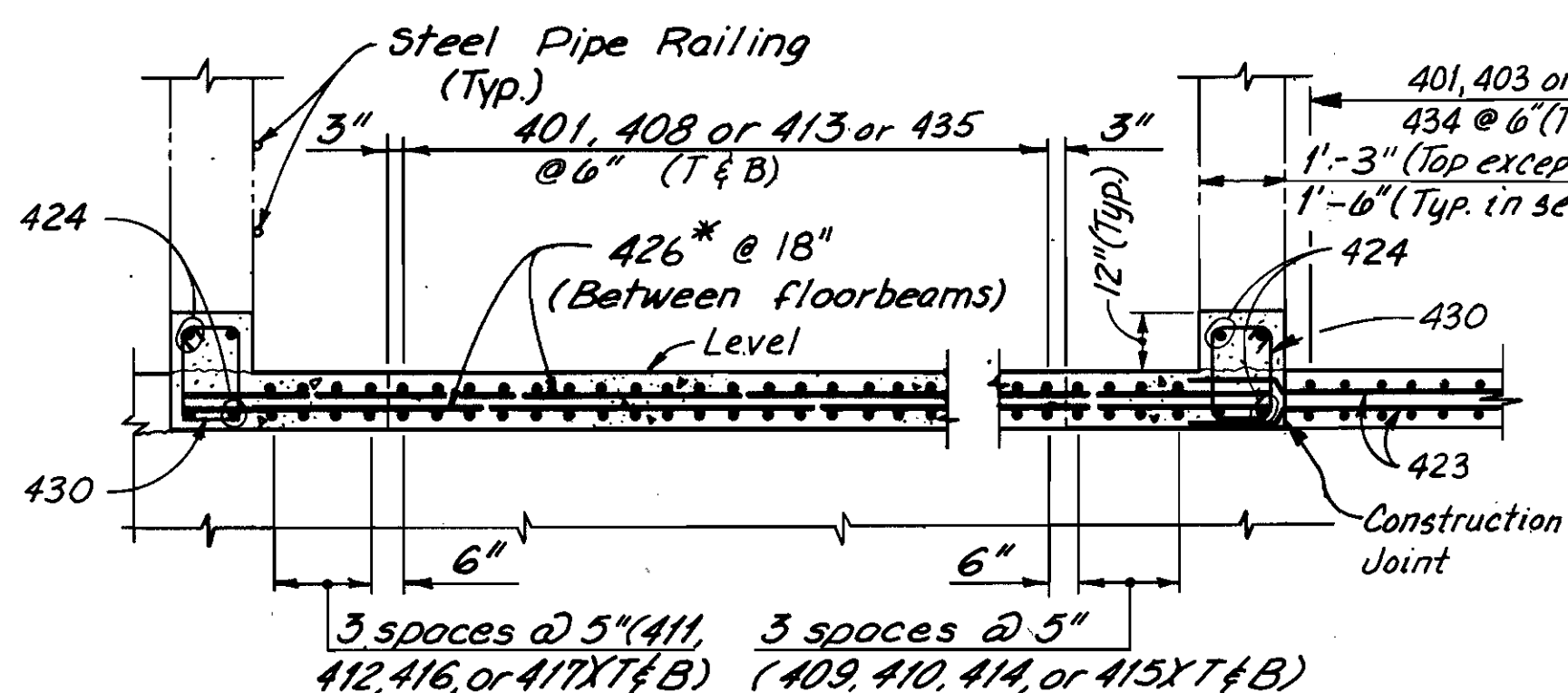
AT PIERS 12N AND 12S

TYPICAL LONGITUDINAL SECTIONS

Note: For center bay see section A-A

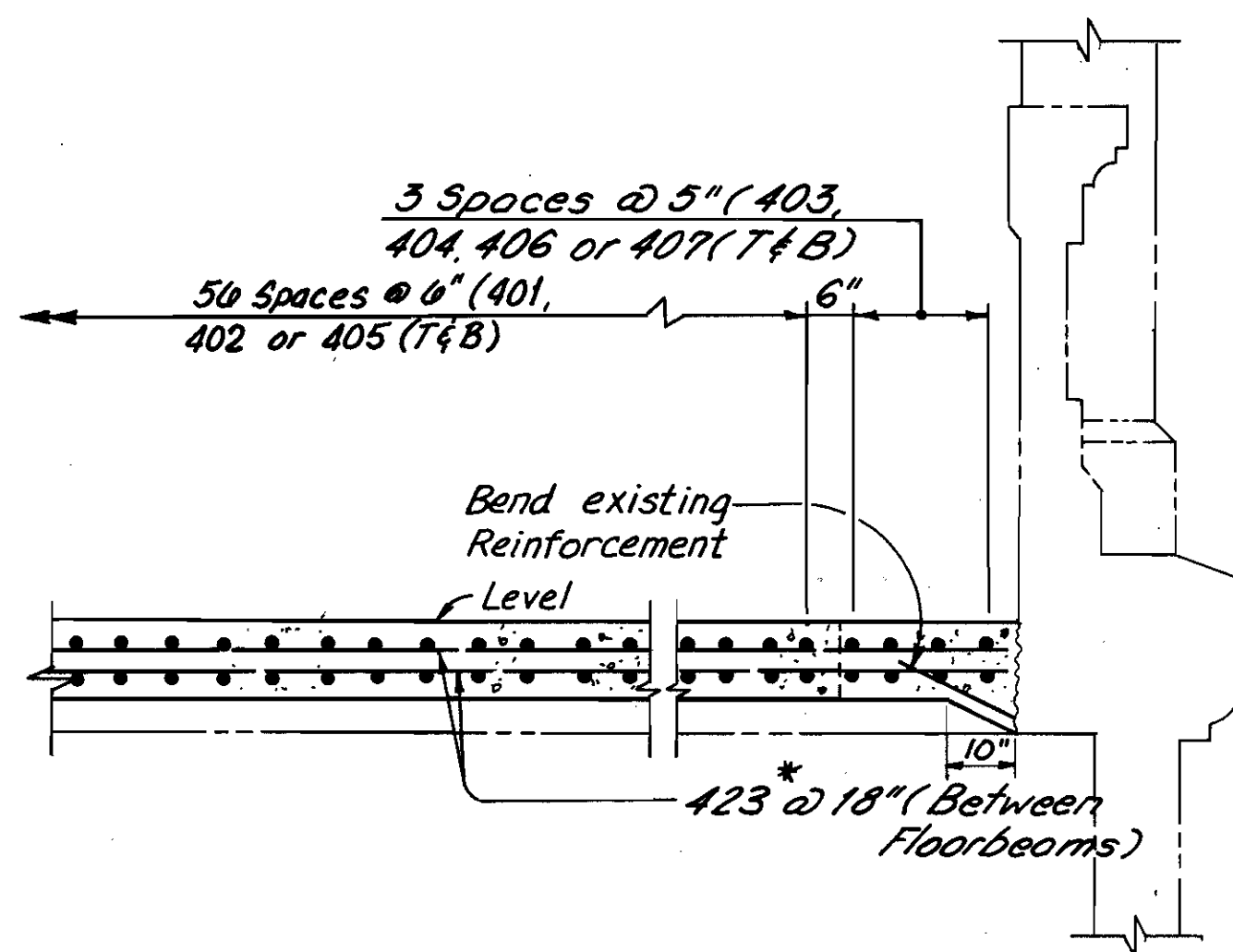


TYPICAL SECTION-NORTH BAY



TYPICAL SECTION-CENTER BAY

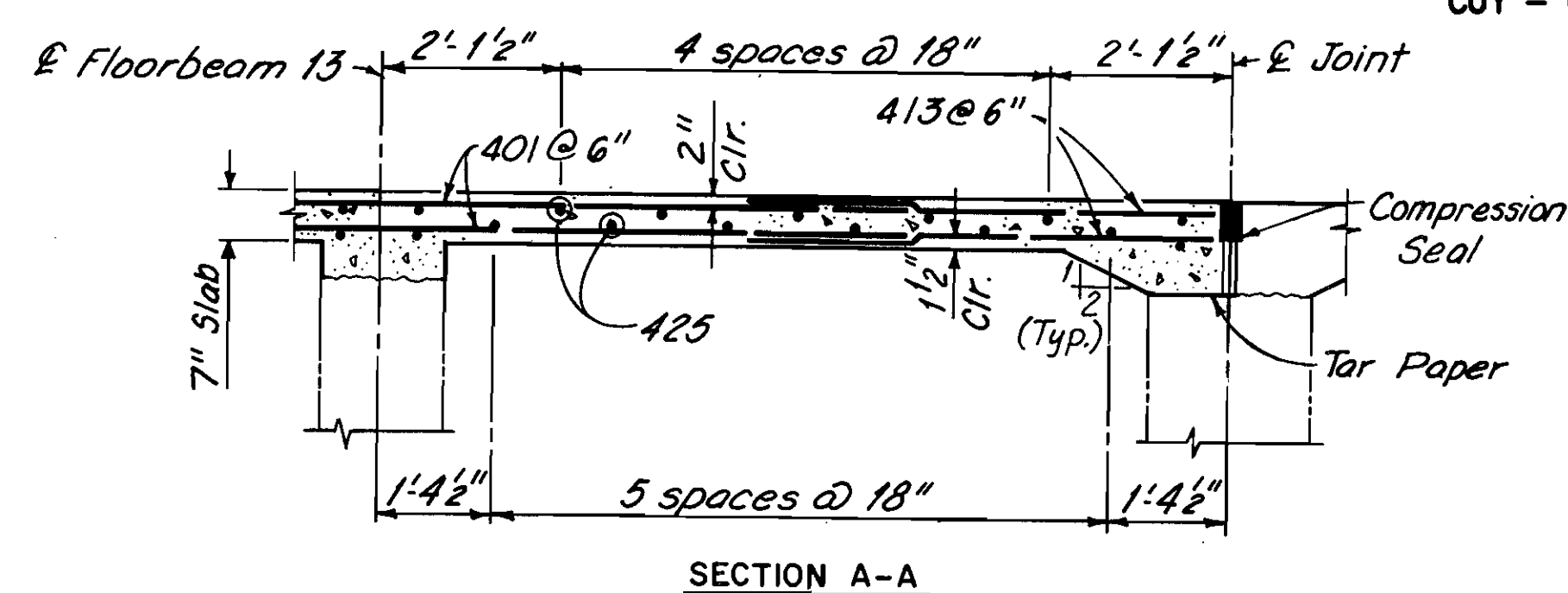
(Looking East)



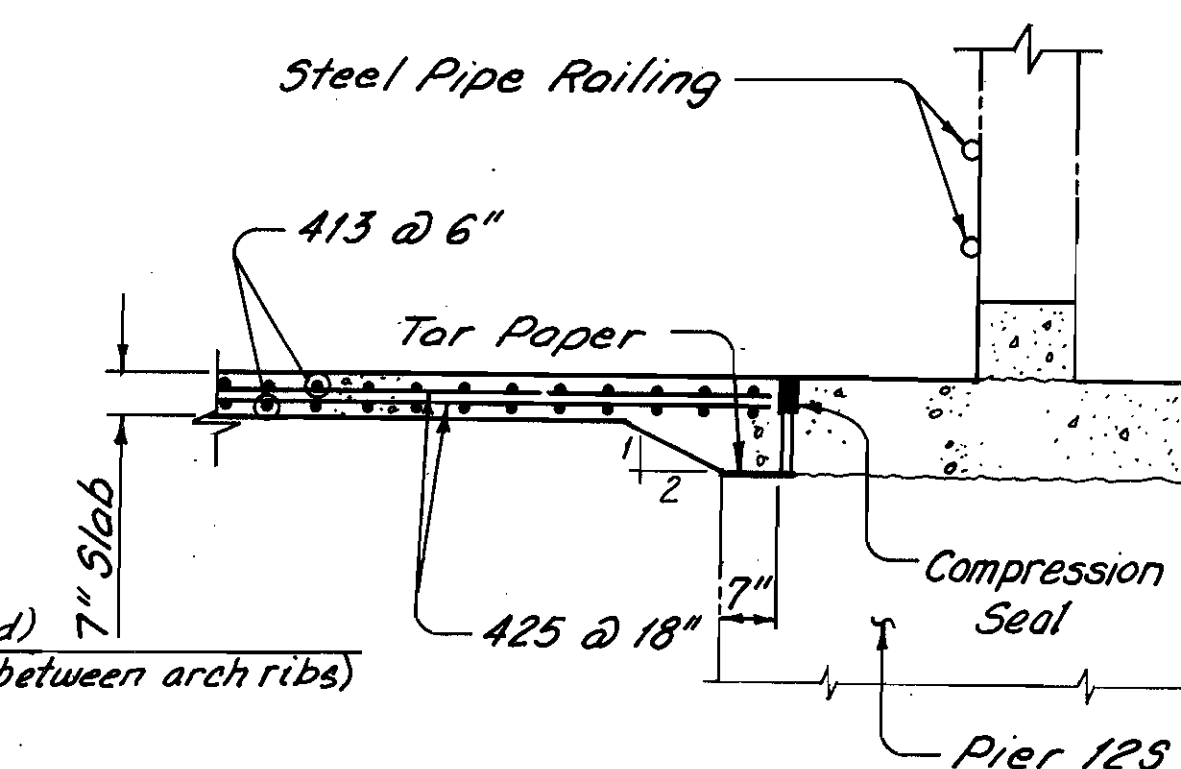
TYPICAL SECTION-SOUTH BAY

(CPP Electric Lines not shown)

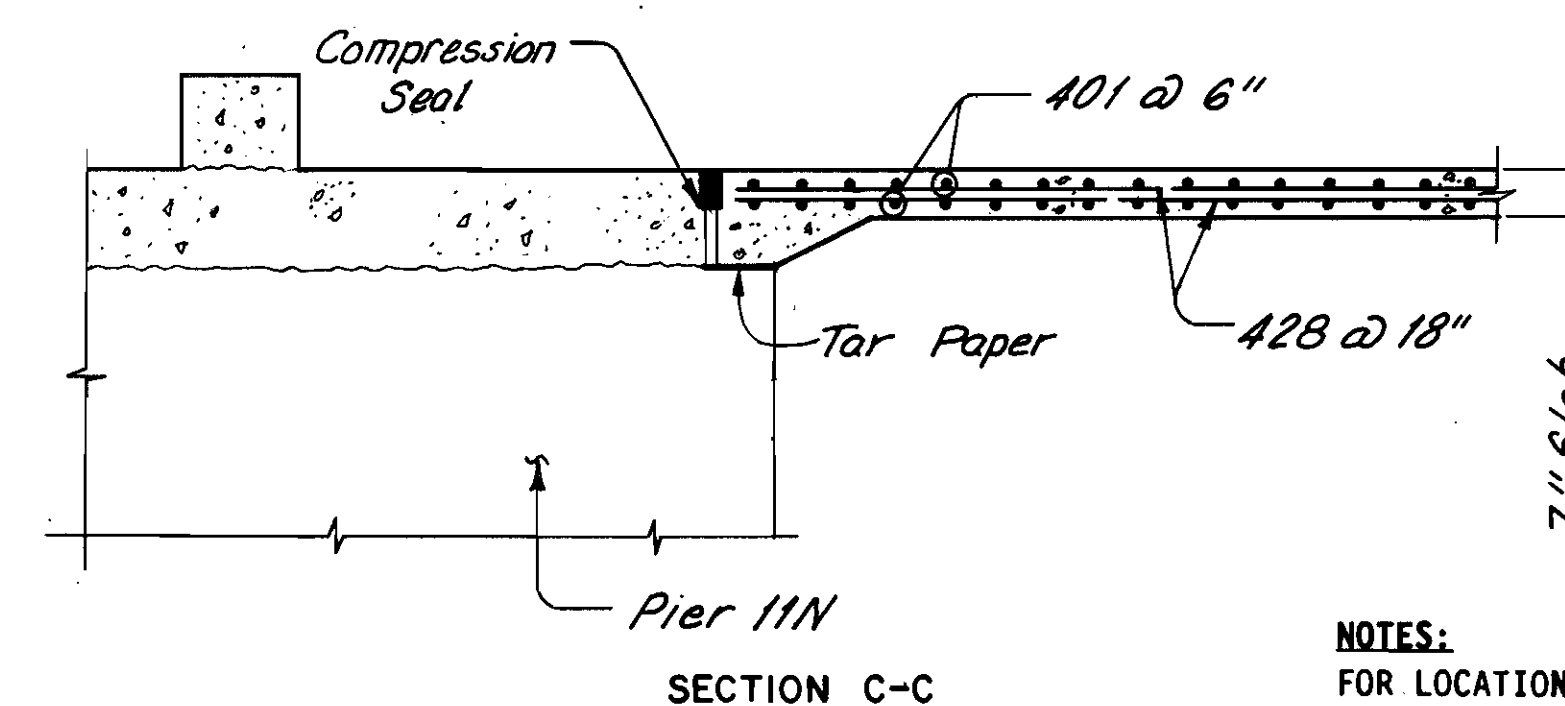
*Note:
Field cut 423, 426 and 427 bars to clear deck slab openings at arch ribs



SECTION A-A



SECTION B-B



SECTION C-C

NOTE:
ALL REINFORCING BAR MARKS SHALL BE PREFIXED 12LES

NOTES:
FOR LOCATION OF SECTIONS A-A THRU C-C, SEE SHEET 105/270

ENCASED STEEL FLOORBEAMS ARE NOT SHOWN

FOR DETAILS OF COMPRESSION SEAL, SEE SHEET 224/270

THE FOLLOWING ABBREVIATIONS ARE USED:

T = TOP

B = BOTTOM

--- INDICATES EXISTING STRUCTURE.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

LOWER DECK SECTIONS

SPAN 12

BR. NO. CUY - 6 - 1499

REHABILITATION OF

VETERANS MEMORIAL BRIDGE

(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)

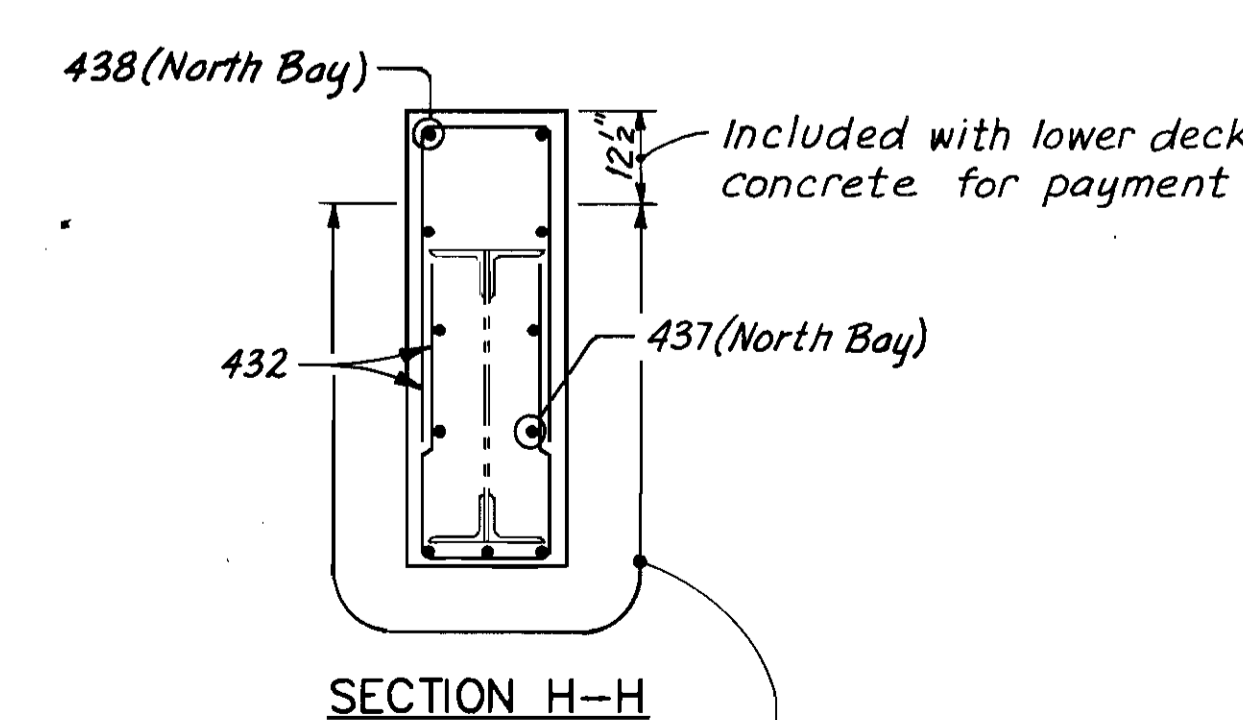
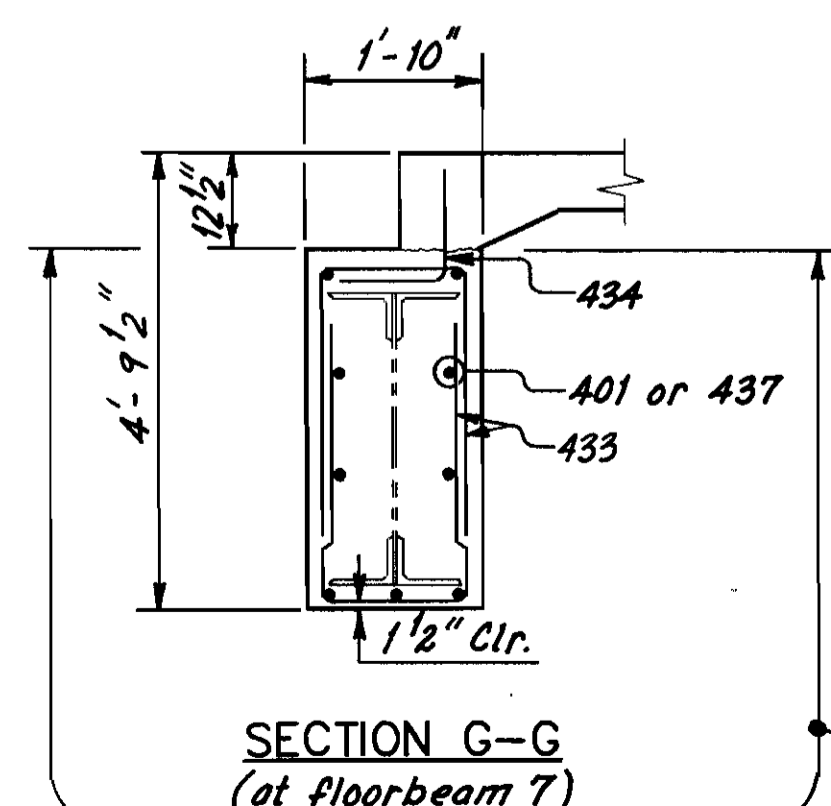
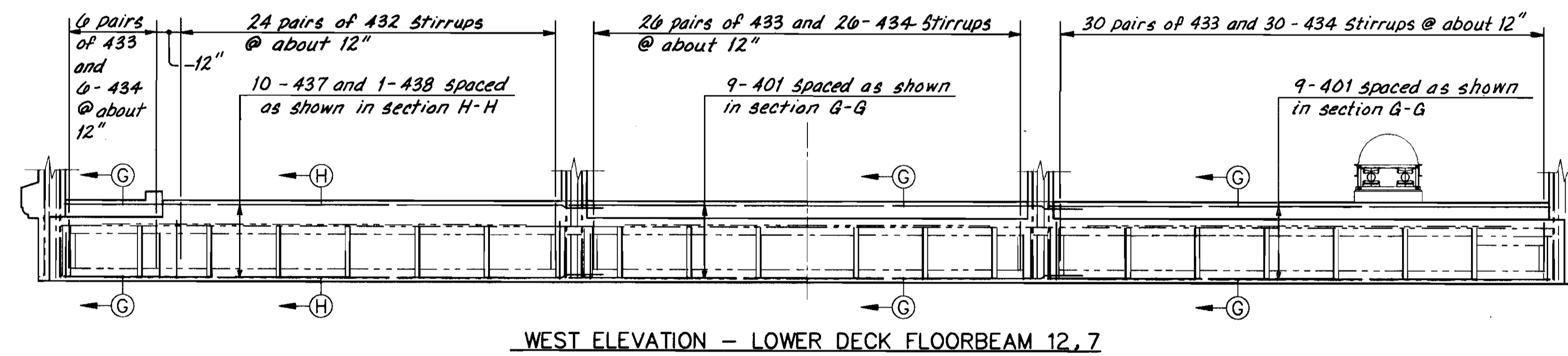
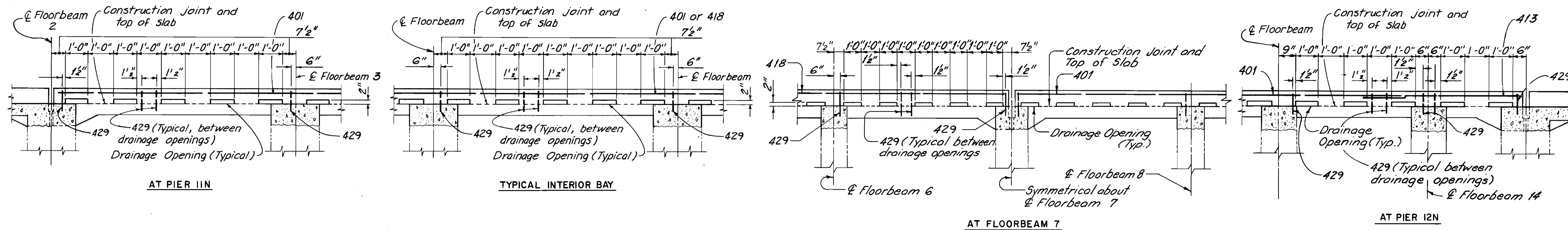
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	J.O.L.	TRACED	J.L.V.	CHECKED	W.J.V.	REVIEWED	C.A.B.	REVISED
DATE	3/10/92	DATE	5/5/92	DATE	5/6/92	DATE	4/6/94	

FHWA REGION	STATE	PROJECT
5	OHIO	

239
412

CUYAHOGA COUNTY
CUY - 6 - 14.99



Payment limits for Item Special.
Repair Structural Steel Members
Encased in Concrete

NOTE:
ALL REINFORCING BAR MARKS
SHALL BE PREFIXED 12LES

NOTES:
FOR LOCATION OF SECTION D-D
SEE SHEET 105 / 270
----- INDICATES EXISTING STRUCTURE.
LOWER DECK RAILING AND ENCASED STEEL
FLOORBEAMS ARE NOT SHOWN.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK SECTIONS
SPAN 12
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

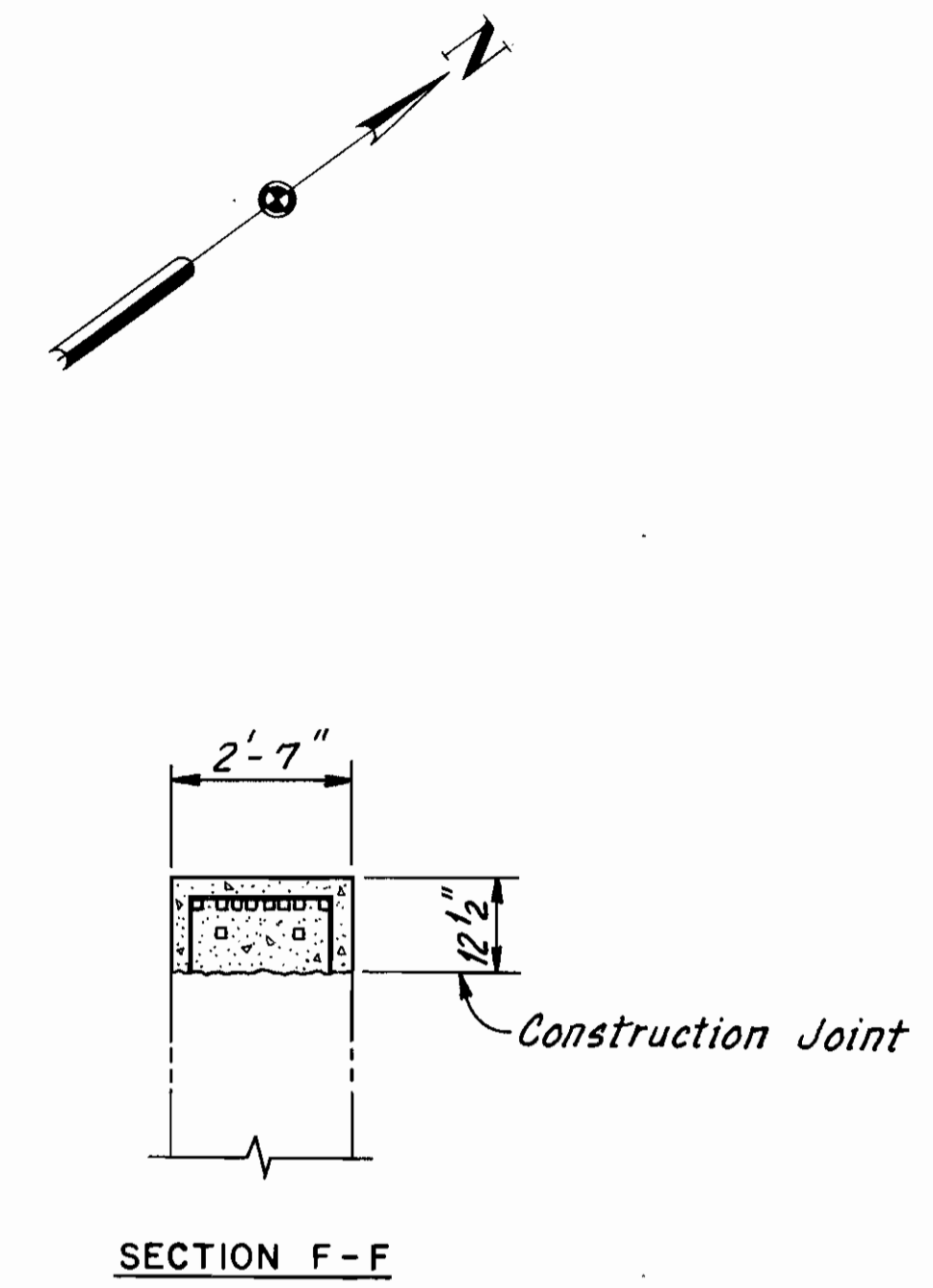
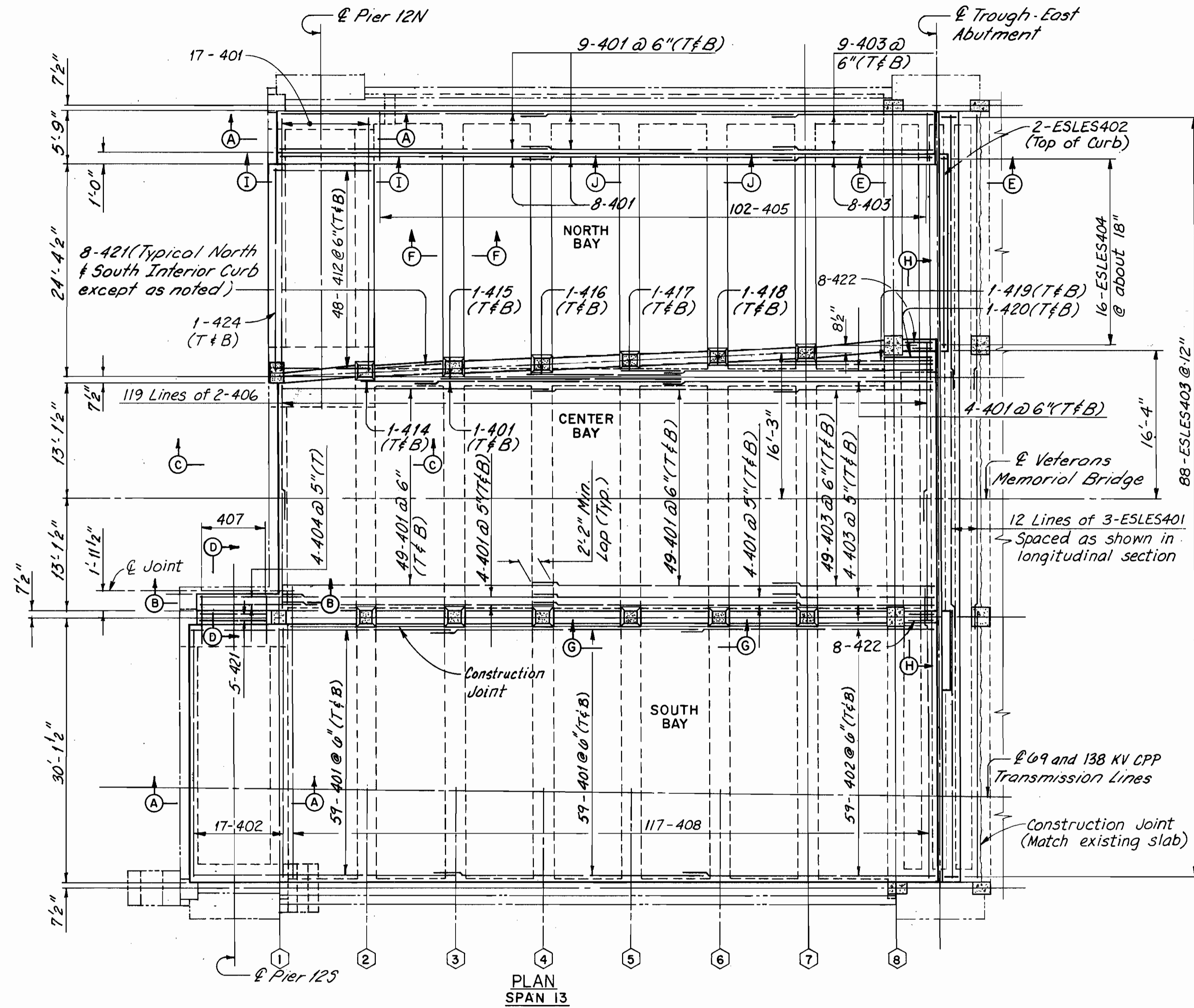
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DATE	3/10/92	DATE	5/5/92	DATE	5/6/92	DATE	4/6/94	

SHEET 107 / 270

FHWA REGION	STATE	PROJECT
5	OHIO	

240
412

CUYAHOGA COUNTY
CUY - 6 - 1499



NOTE:
ALL REINFORCING BAR MARKS
SHALL BE PREFIXED 13LES
UNLESS OTHERWISE NOTED

NOTES:
FOR SECTIONS A-A THRU E-E AND I-I AND J-J SEE SHEET 110/270

FOR TYPICAL LONGITUDINAL SECTIONS AND SECTION G-G AND H-H,
SEE SHEET 109/270

THE FOLLOWING ABBREVIATIONS ARE USED:

- T = TOP
- B = BOTTOM
- INDICATES EXISTING STRUCTURE .
- ◻ INDICATES FLOORBEAM DESIGNATION

COUNTY BRIDGE NO. 84

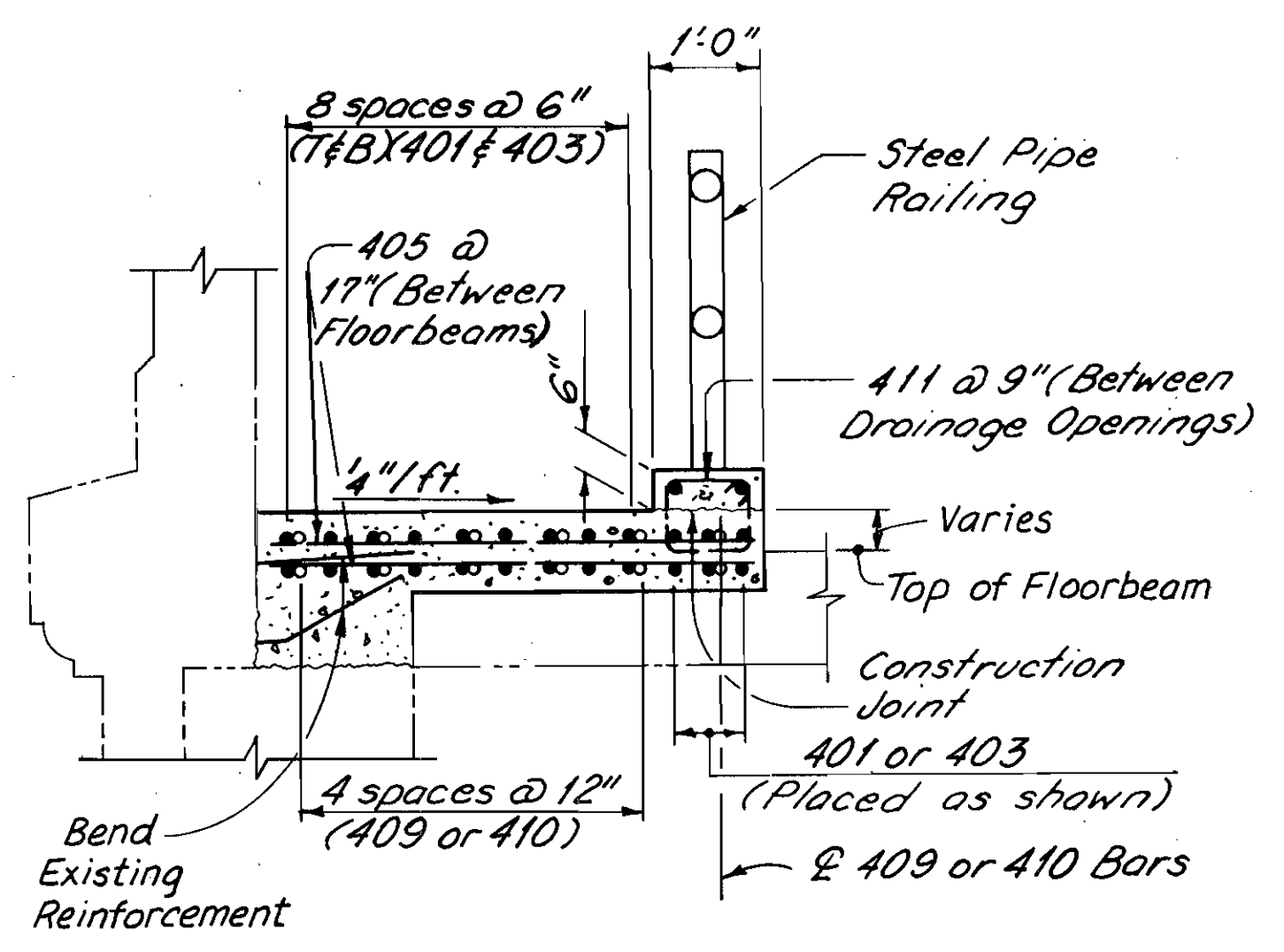
HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK PLAN
SPAN 13
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

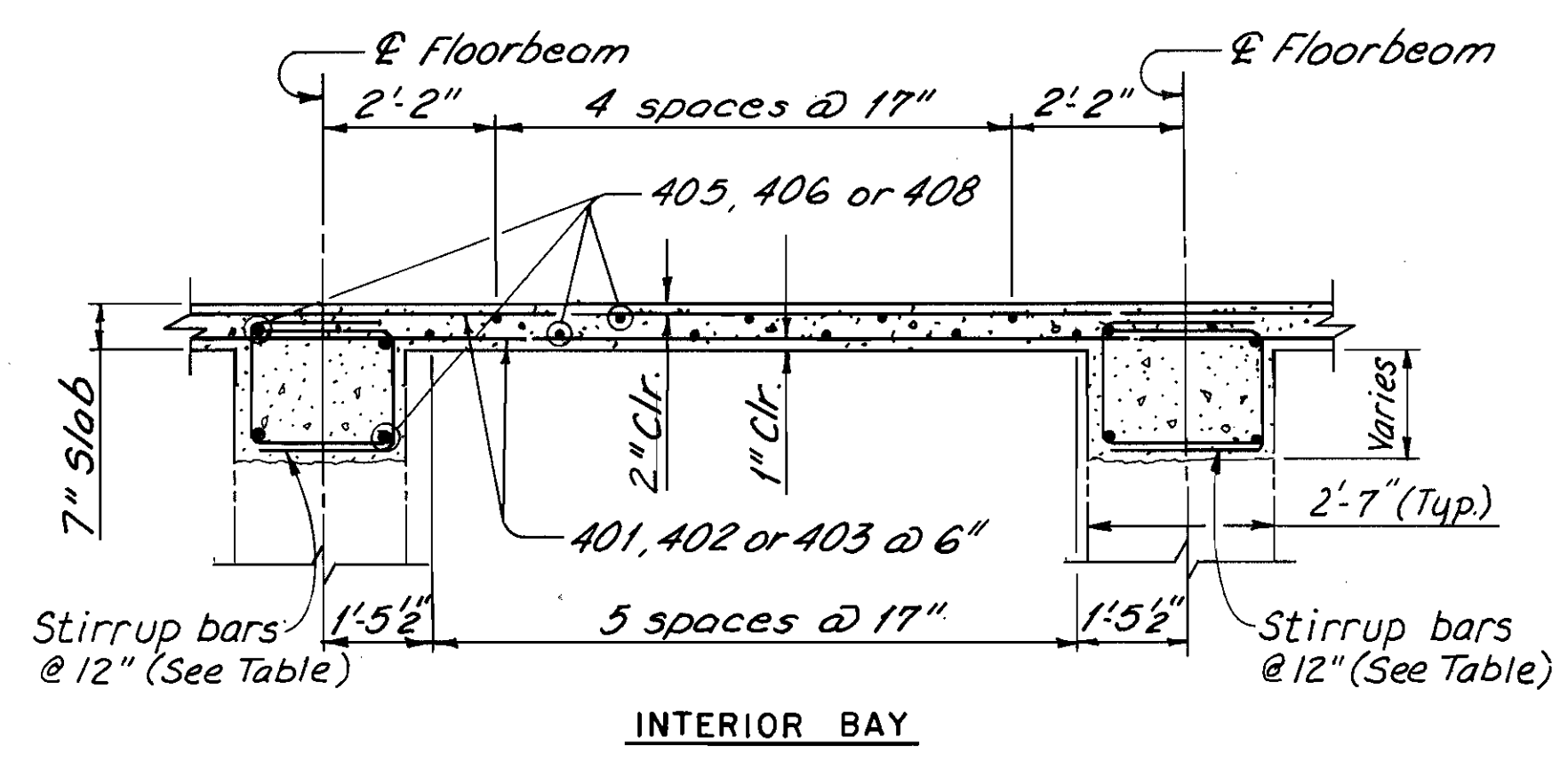
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DATE	3/10/92	DATE	5/5/92	DATE	5/6/92	DATE	4/6/94	

SHEET 108/270

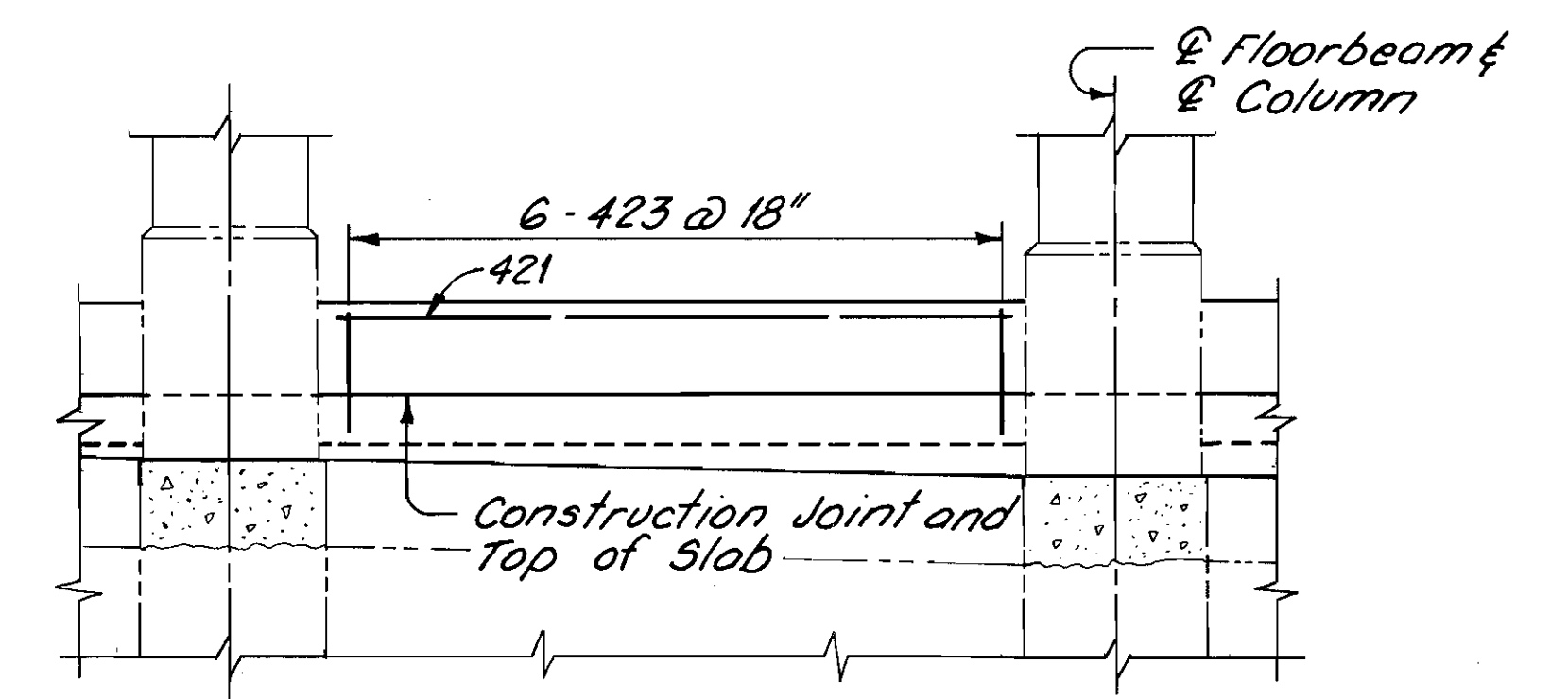
CUYAHOGA COUNTY
CUY - 6 - 14.99



TYPICAL SECTION-NORTH BAY

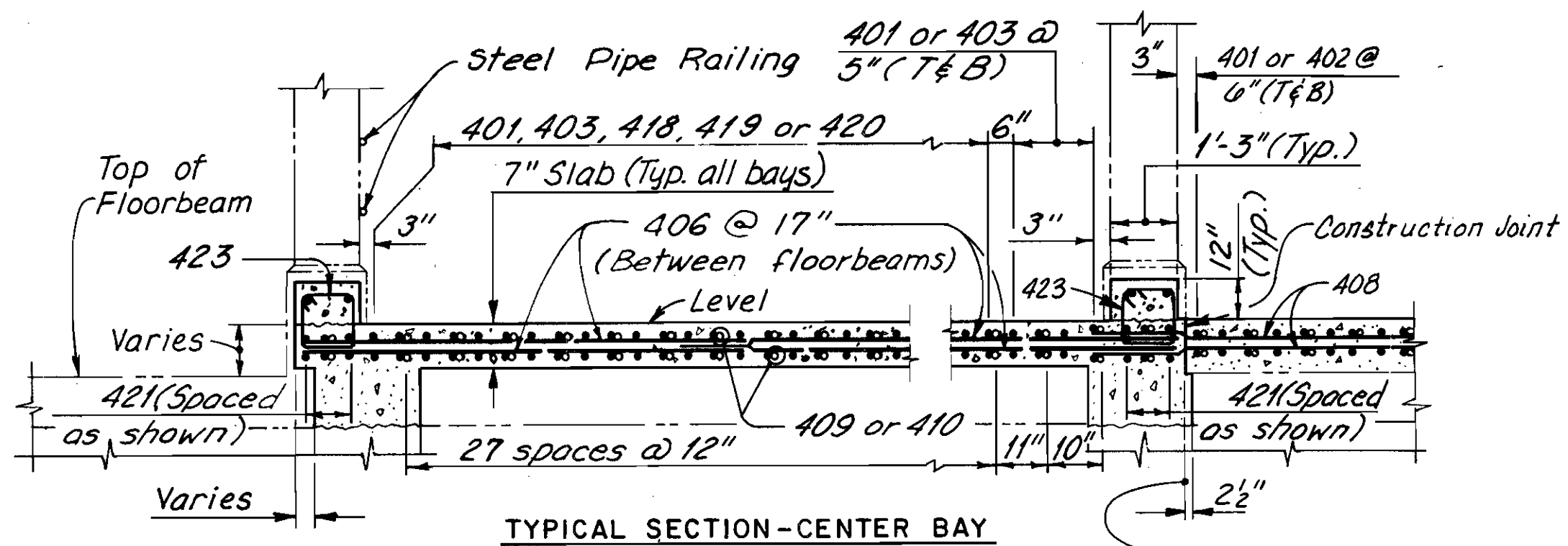


INTERIOR BAY

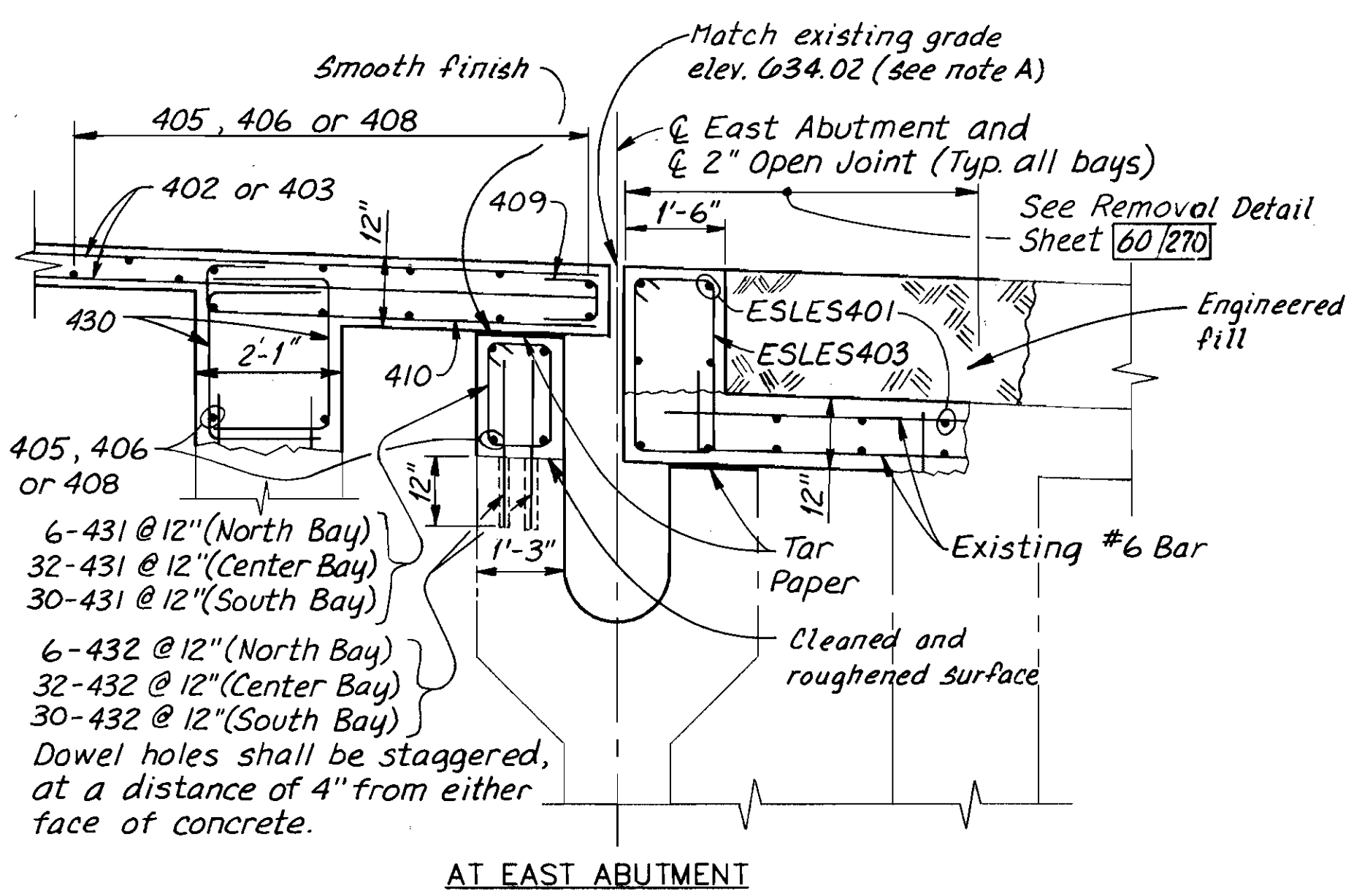


SECTION G-G

(Railing not shown)
(Curb at Pier 125 similar)

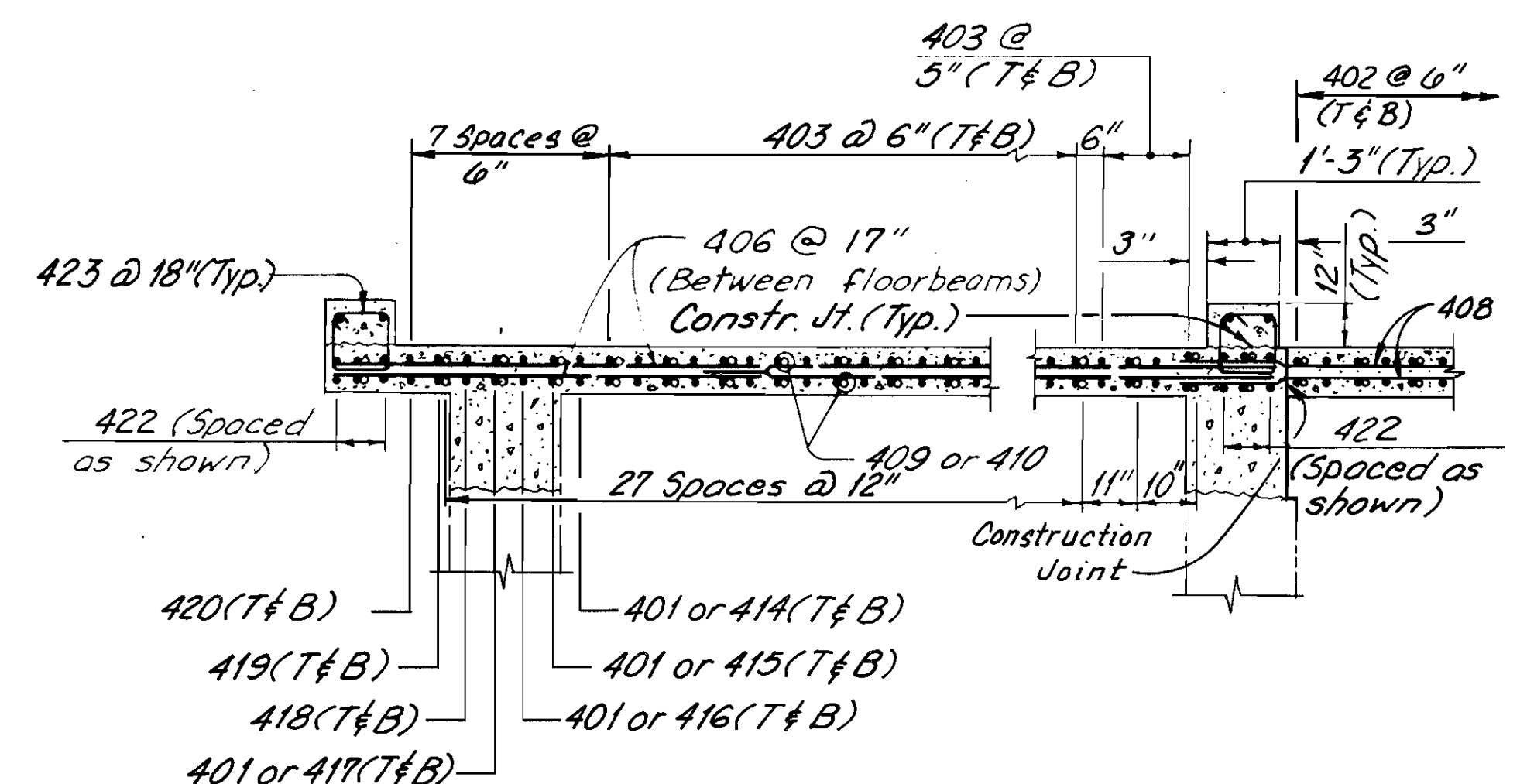


TYPICAL SECTION-CENTER BAY



AT EAST ABUTMENT

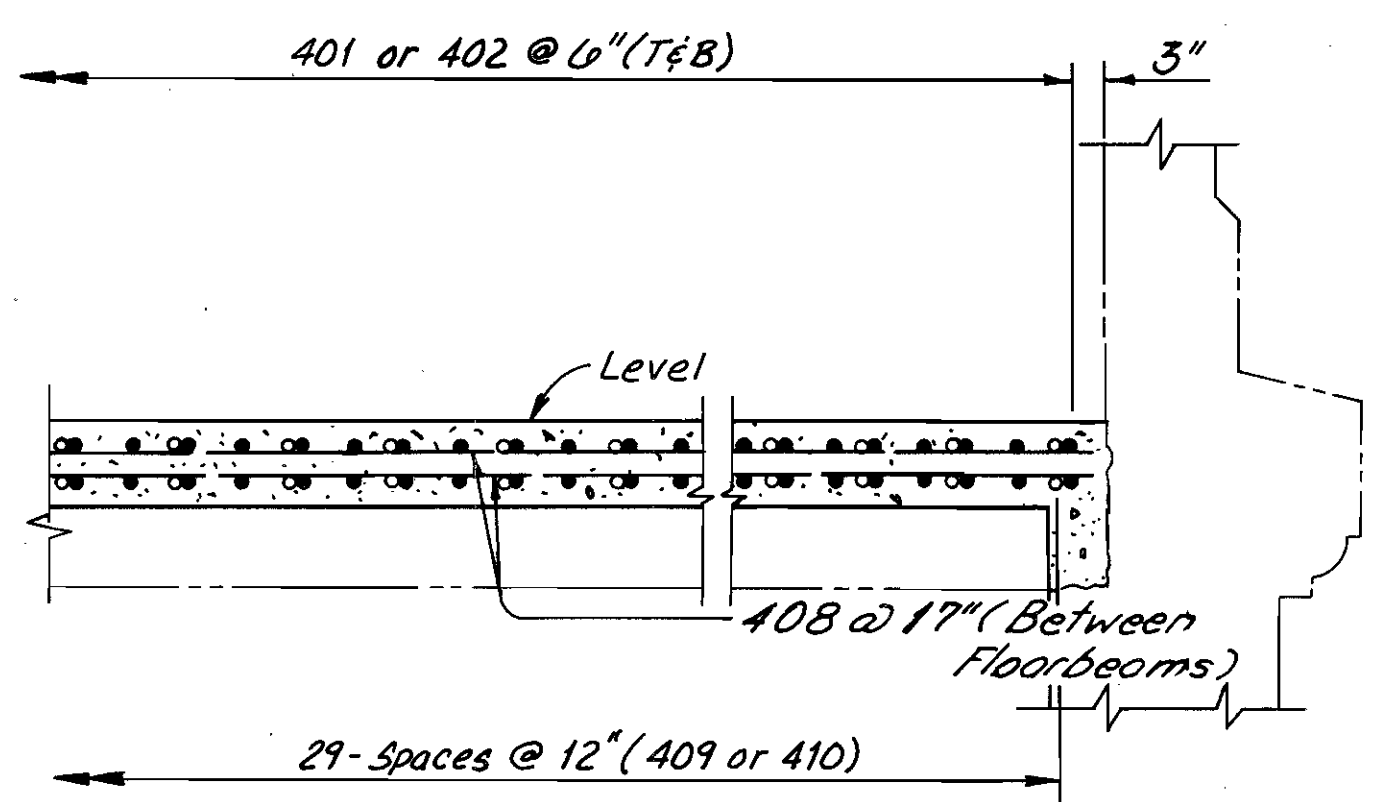
TYPICAL LONGITUDINAL SECTIONS



SECTION H-H

STIRRUP BARS OVER LOWER DECK FLOORBEAMS *			
FLOORBEAM	NORTH BAY	CENTER BAY	SOUTH BAY
13-1	—	—	—
13-2	—	—	—
13-3	6-425	28-425	30-425
13-4	6-426	28-426	30-426
13-5	6-427	29-427	30-427
13-6	6-428	29-428	30-428
13-7	6-429	29-429	30-429
13-8	6-430	30-430	30-430

* Quantities shown are the number of pairs of stirrup bars. (See note A)



TYPICAL SECTION-SOUTH BAY

(CPP Electric Lines not shown)

NOTE:
ALL REINFORCING BAR MARKS SHALL BE PREFIXED 13LES UNLESS OTHERWISE NOTED

NOTES:
FOR LOCATION OF SECTIONS G-G AND H-H, SEE SHEET 108/270

FOR DETAILS OF COMPRESSION SEAL, SEE SHEET 224/270

THE FOLLOWING ABBREVIATIONS ARE USED:

T = TOP

B = BOTTOM

--- INDICATES EXISTING STRUCTURE.

Note A:
The existing grade elevations at floorbeam 12,12 and at the east abutment shall be field verified. The proposed top of lower deck elevations shown on sheet 230/270 shall be adjusted as directed by the Engineer. Prior to fabricating and furnishing stirrup bar nos. ESLES403 and 13LES425 thru 13LES430 the Contractor shall field verify the top of floorbeam and abutment elevations after removal of the existing lower deck slab. The lengths of the stirrup bars shall be checked, and adjusted if required to match the lengths obtained by taking the differences between the proposed top of deck elevations and the existing top of floorbeam elevations. Payment for this work shall be included with Item 623.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK SECTIONS
SPAN 13
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

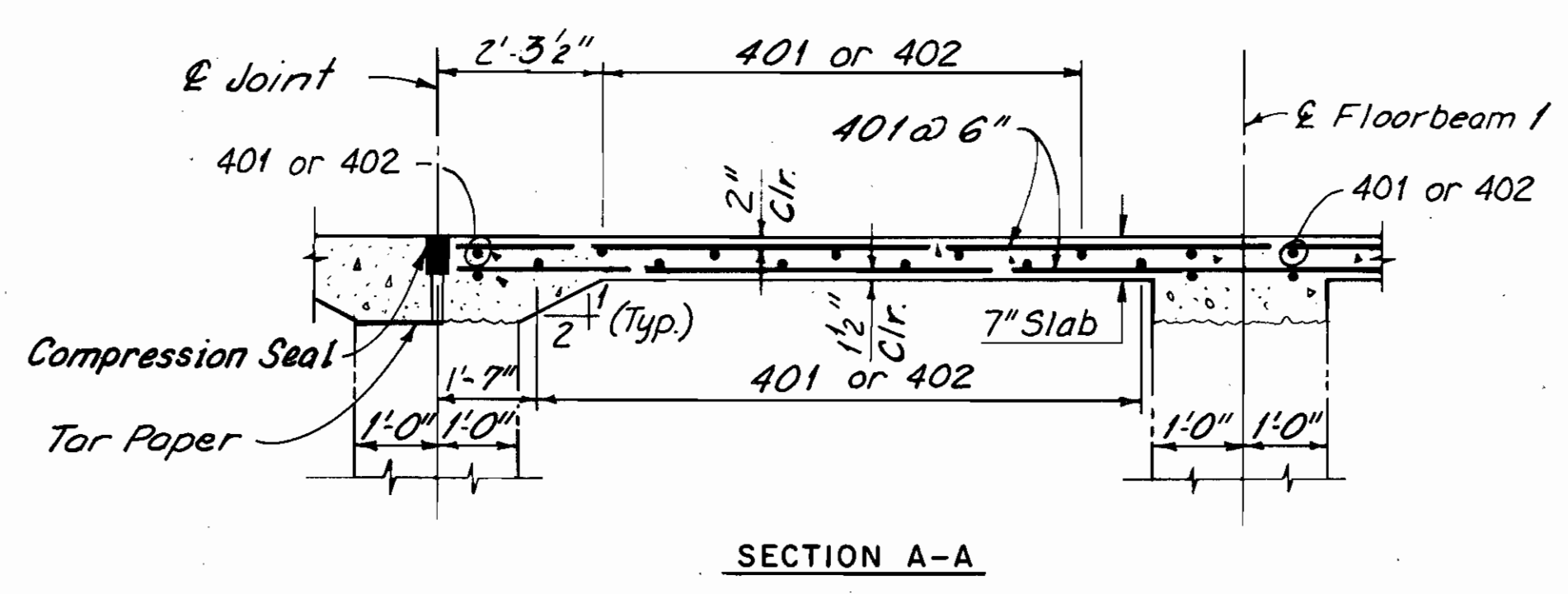
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DATE	3/10/92	DATE	5/5/92	DATE	5/6/92	DATE	4/8/94	

SHEET 109/270

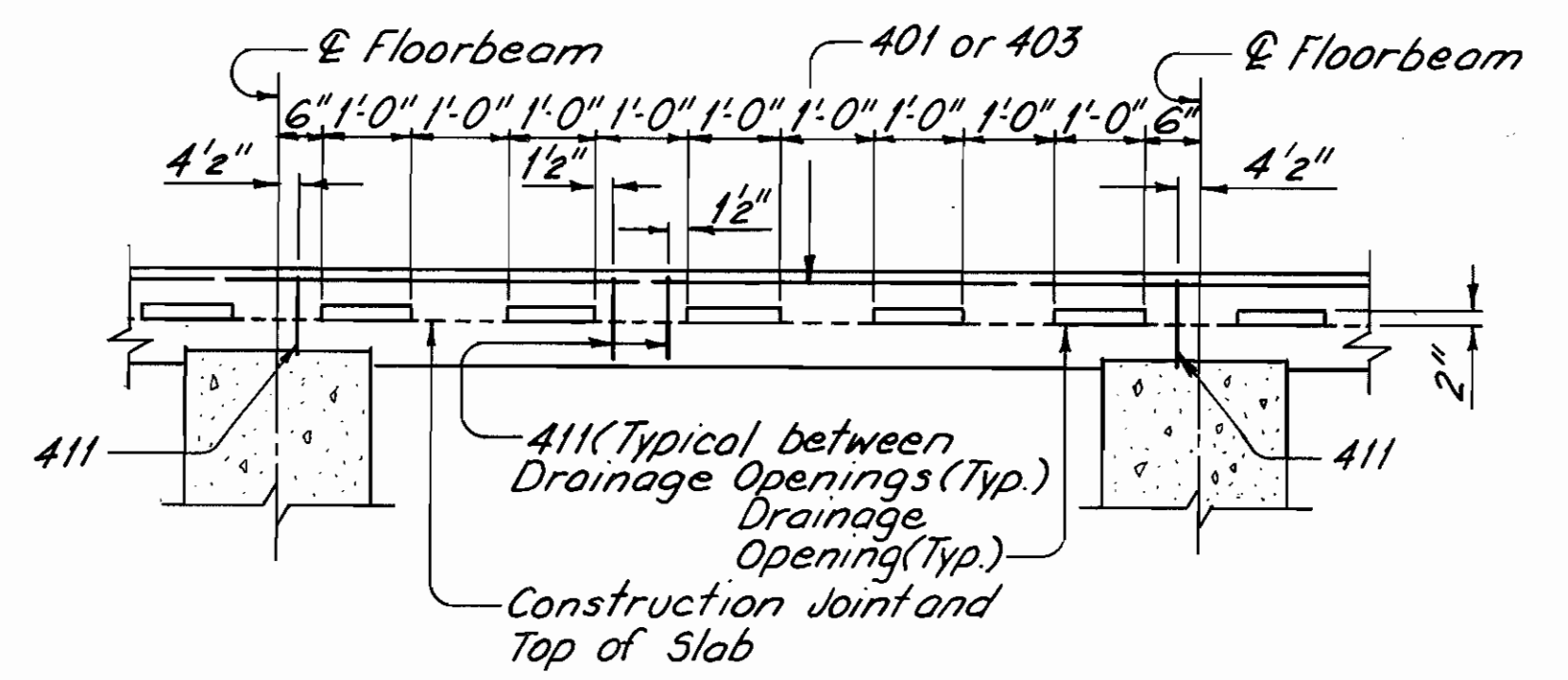
FHWA REGION	STATE	PROJECT
5	OHIO	

242
412

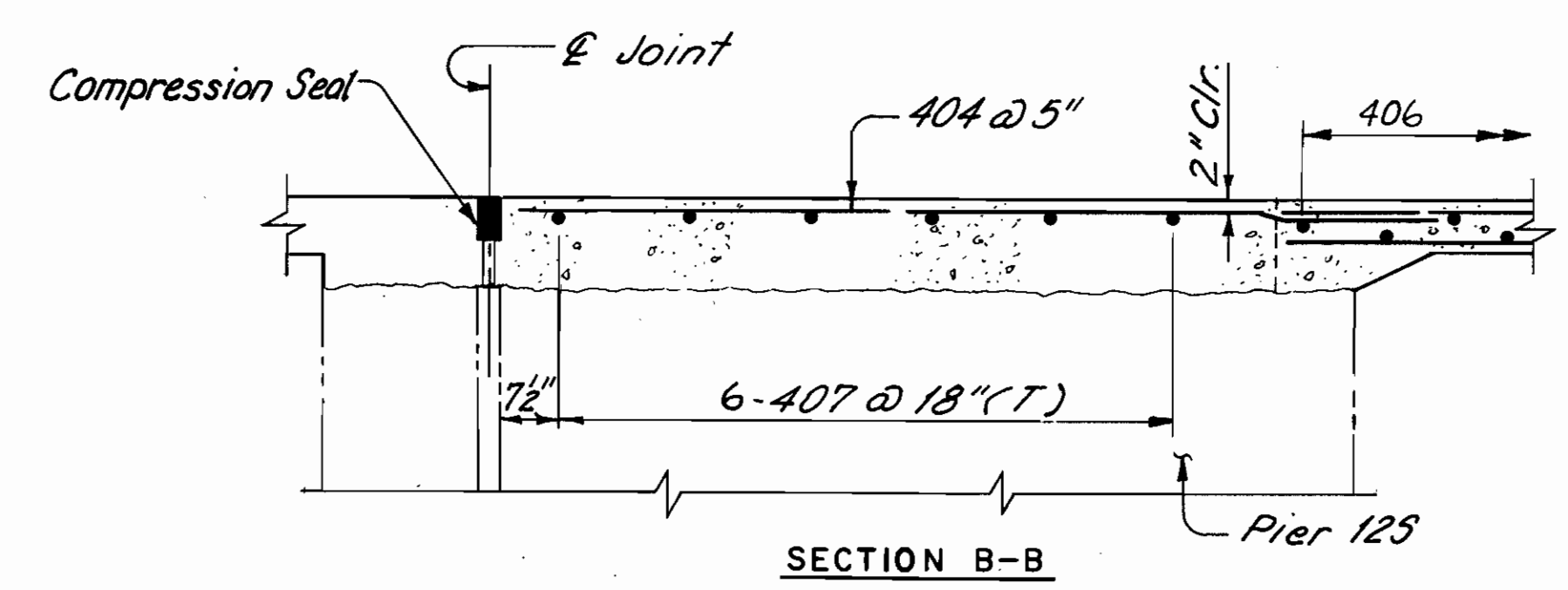
CUYAHOGA COUNTY
CUY - 6 - 14.99



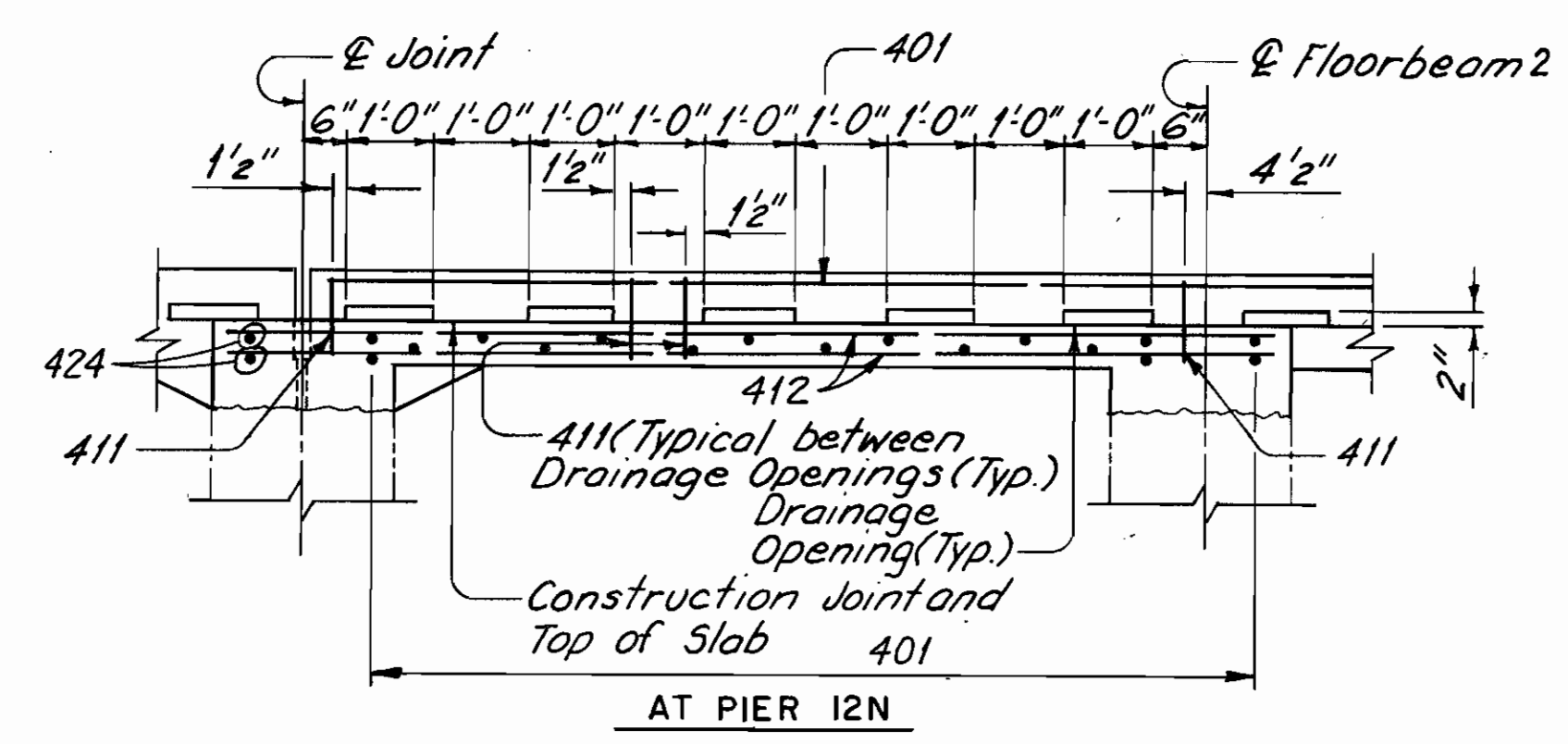
SECTION A-A



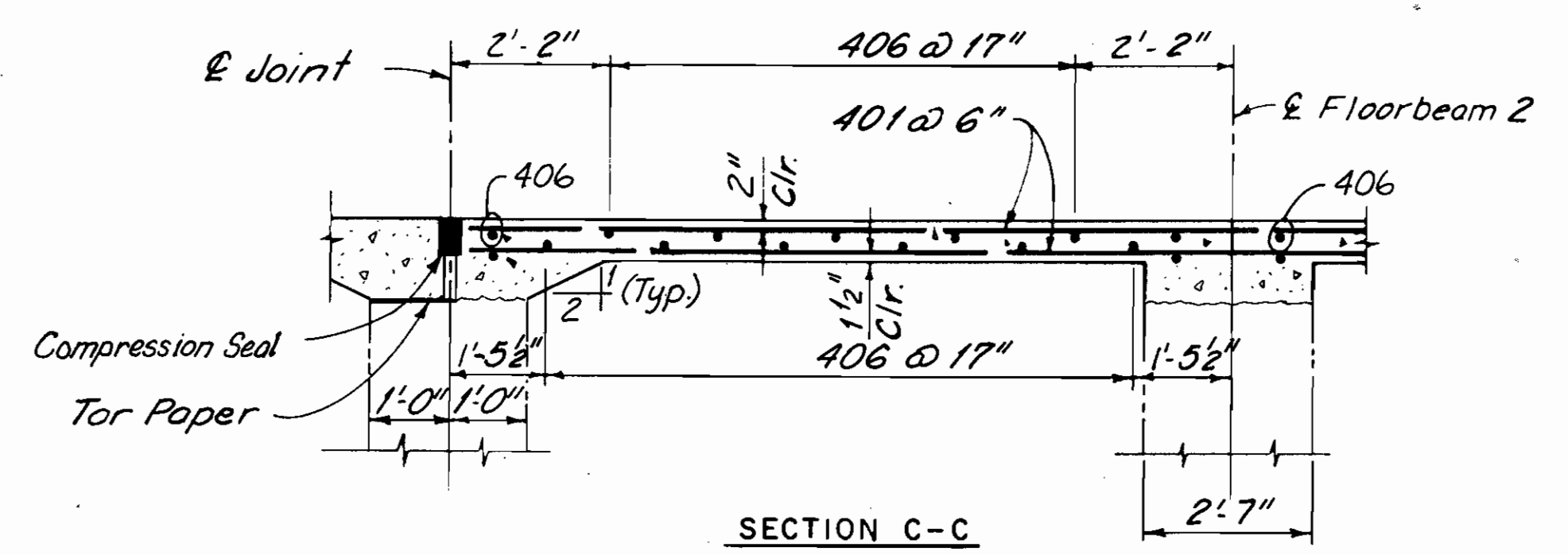
INTERIOR BAY
SECTION J-J
(Railing Not Shown)



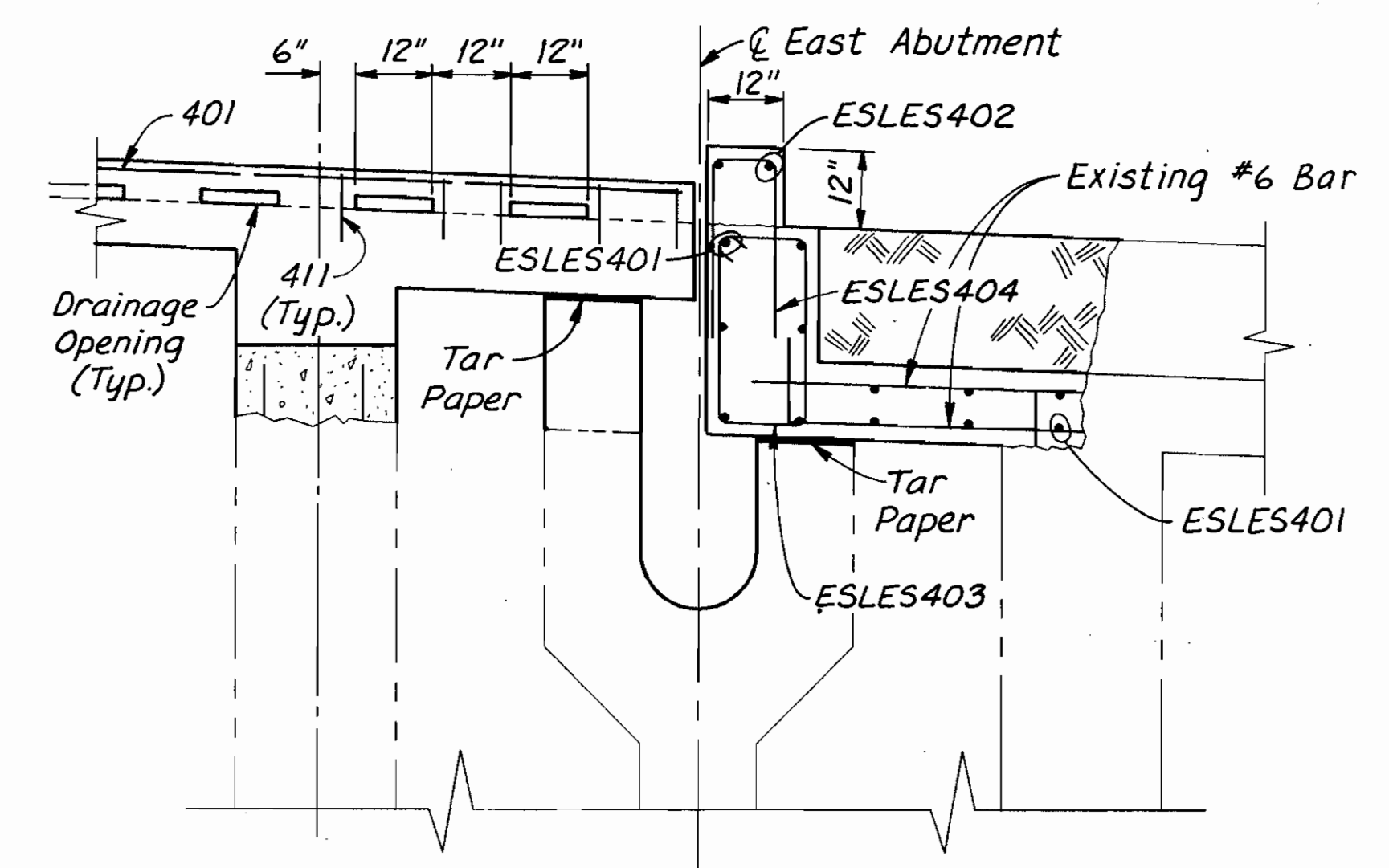
SECTION B-B



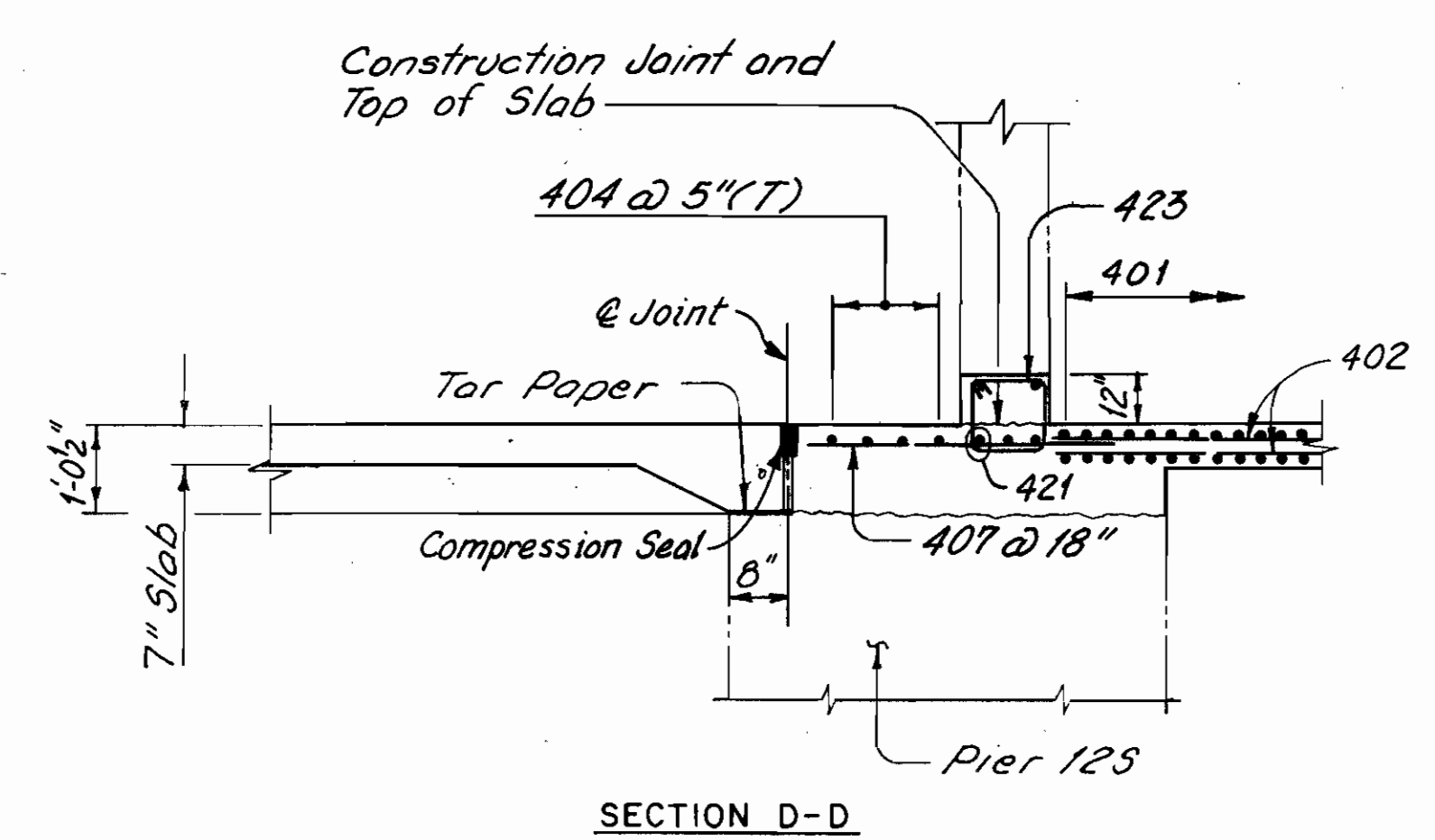
AT PIER 12N
SECTION I-I
(Railing Not Shown)



SECTION C-C



AT EAST ABUTMENT
SECTION E-E
(Railing Not Shown)



SECTION D-D

NOTES:
FOR LOCATION OF SECTIONS, SEE SHEET 108/270
FOR DETAILS OF COMPRESSION SEAL, SEE SHEET 224/270
THE FOLLOWING ABBREVIATIONS ARE USED:
T = TOP
B = BOTTOM
--- INDICATES EXISTING STRUCTURE.

NOTE:
ALL REINFORCING BAR MARKS
SHALL BE PREFIXED 13LES
UNLESS OTHERWISE NOTED

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS **HNTB**

LOWER DECK SECTIONS
SPAN 13
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

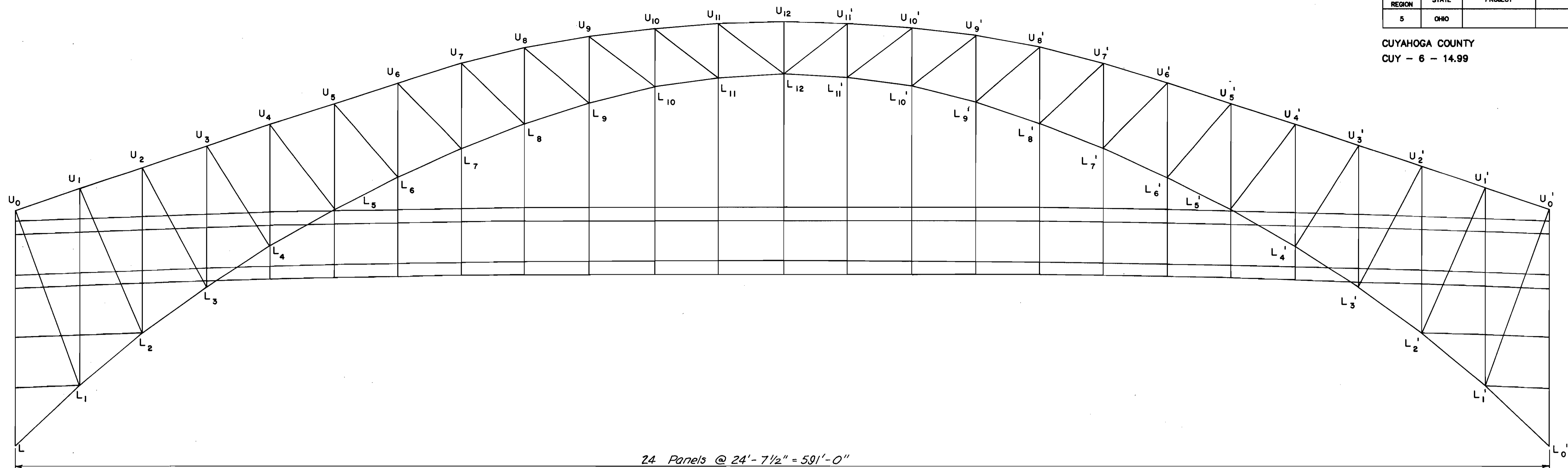
DRAWN	TRACED	CHECKED	REVIEWED
J.O.L.	J.L.V.	W.J.V.	C.A.B.
DATE	DATE	DATE	DATE
3/10/92	5/5/92	5/6/92	4/6/94

SHEET 110 / 270

FHWA REGION	STATE	PROJECT
5	OHIO	

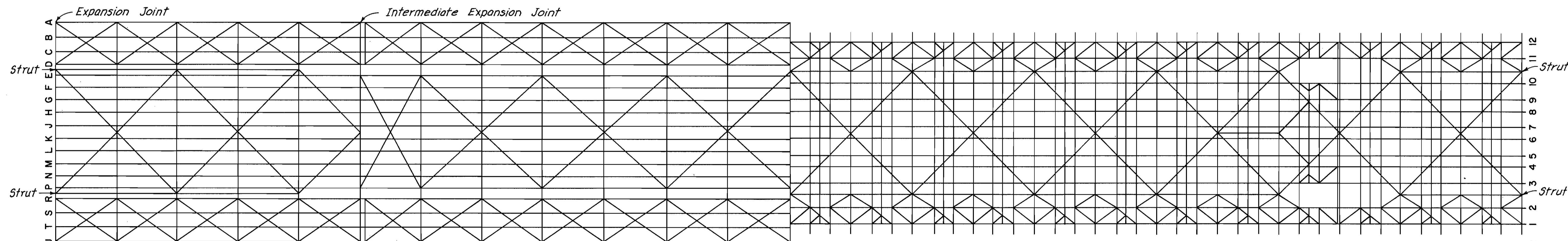
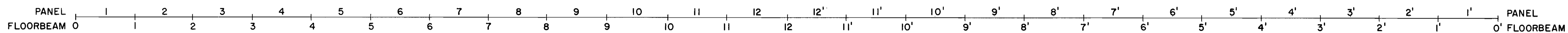
255
412

CUYAHOGA COUNTY
CUY - 6 - 14.99



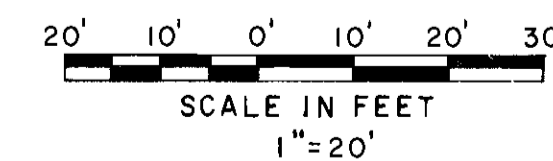
24 Panels @ 24' - 7 1/2" = 591' - 0"

ELEVATION

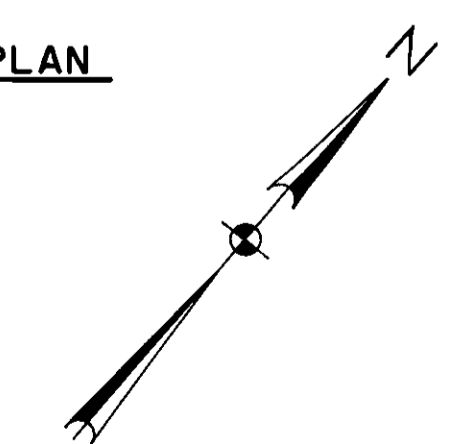


UPPER DECK FRAMING PLAN

LOWER DECK FRAMING PLAN



Note:
All framing plans are symmetrical
about floorbeam 12.



COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS



FRAMING PLAN - SPAN 4
UPPER AND LOWER DECKS
BR. NO. CUY - 6 - 1499

REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)

CLEVELAND CUYAHOGA COUNTY OHIO

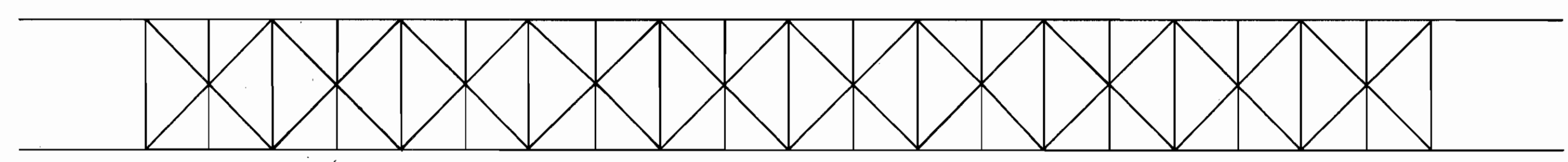
DRAWN	TRACED	CHECKED	REVIEWED	REVISED
C.K.B.	G.C.A.	C.E.P.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
4/11/90	4/12/90	4/18/90	4/5/94	

SHEET 123 / 270

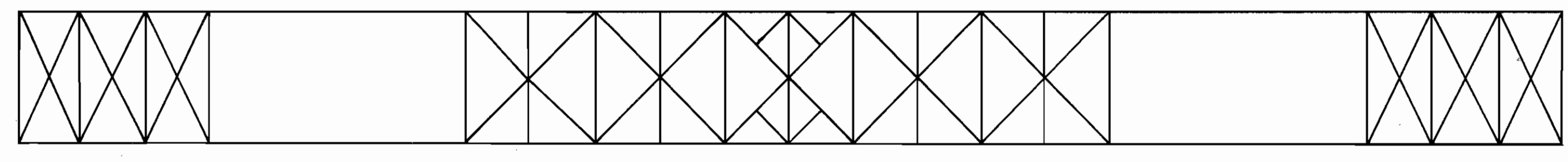
FHWA REGION	STATE	PROJECT
5	OHIO	

256
412

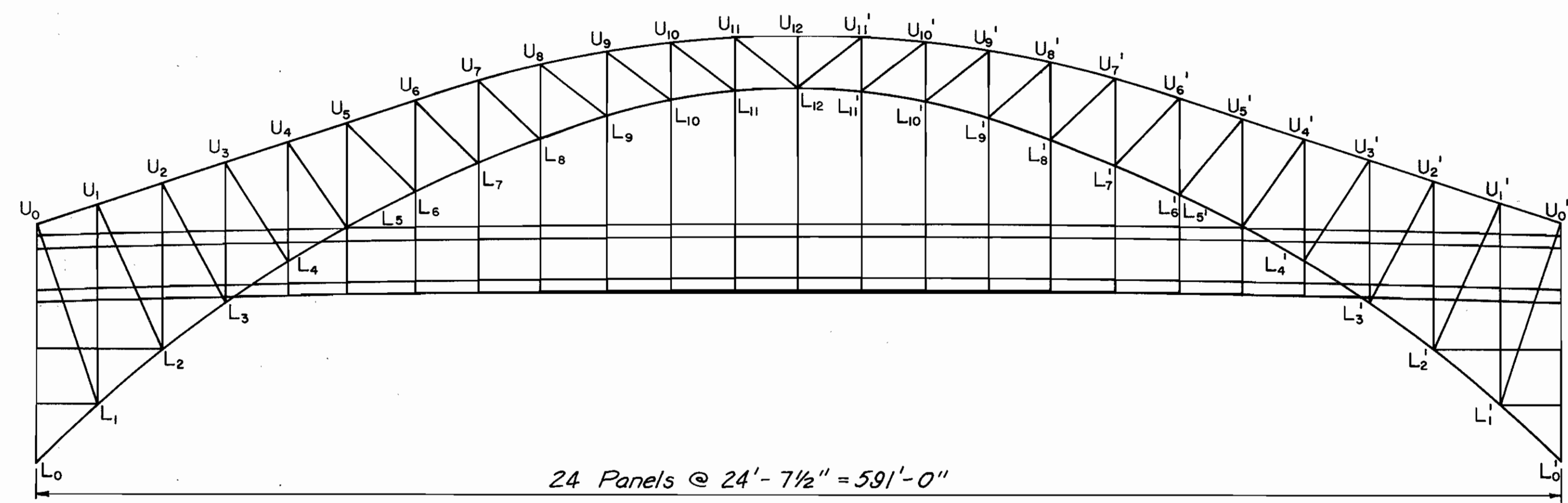
CUYAHOGA COUNTY
CUY - 6 - 14.99



TOP CHORD LATERAL BRACING

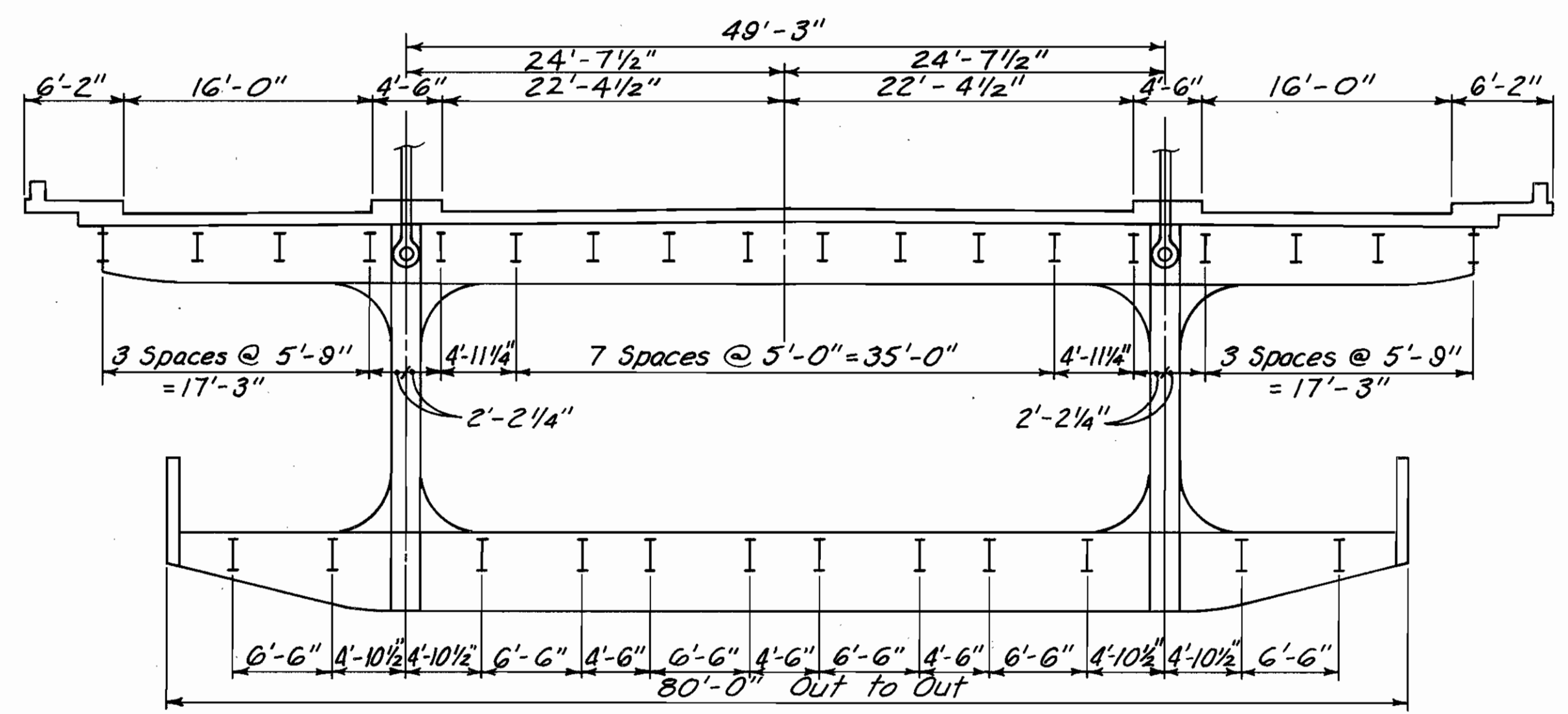
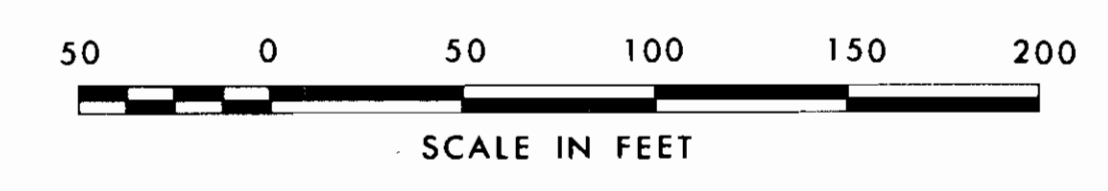


BOTTOM CHORD LATERAL BRACING

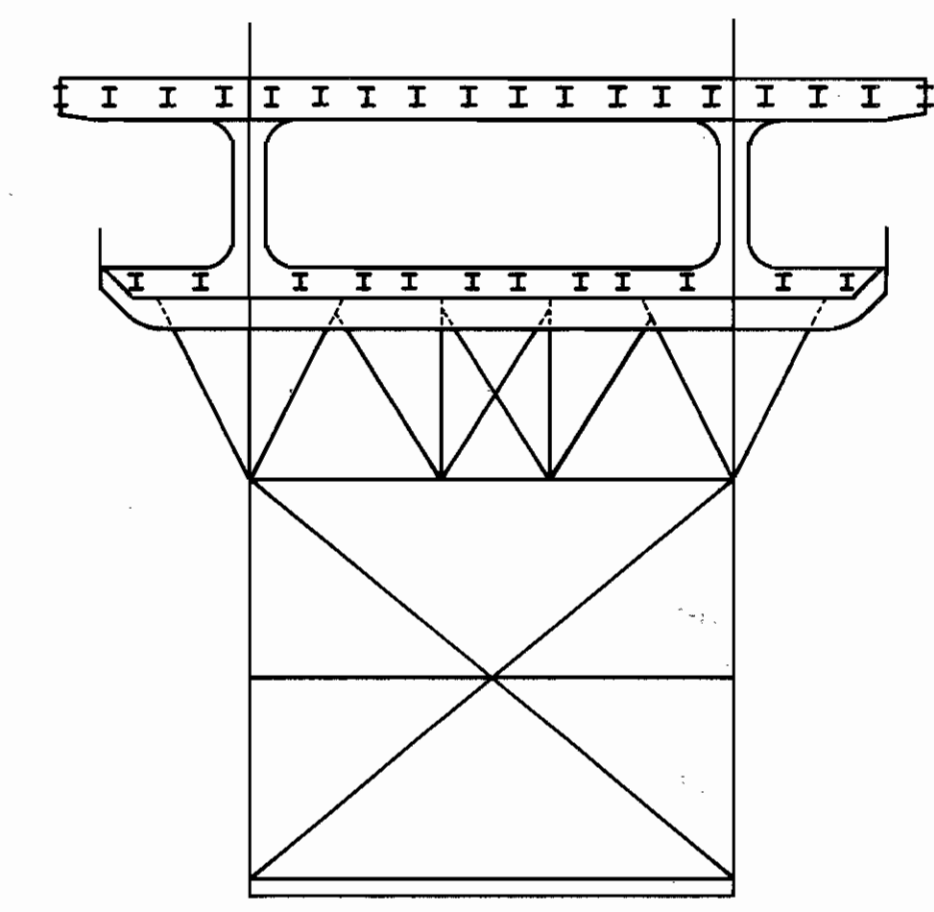


24 Panels @ 24'-7 1/2" = 591'-0"

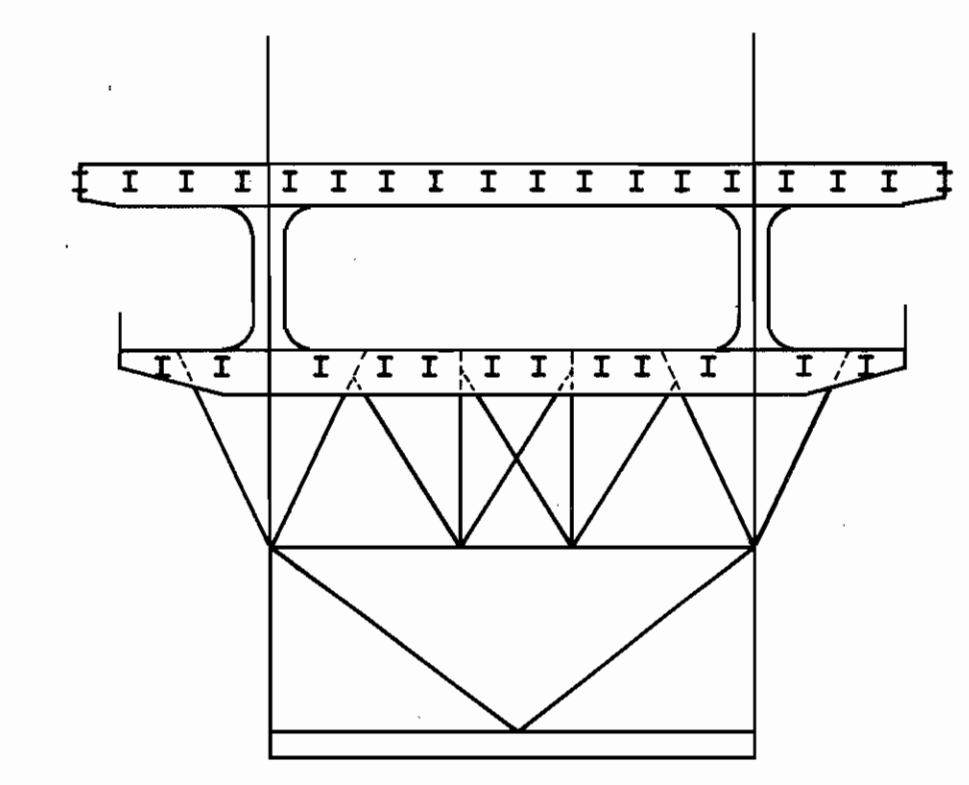
ELEVATION



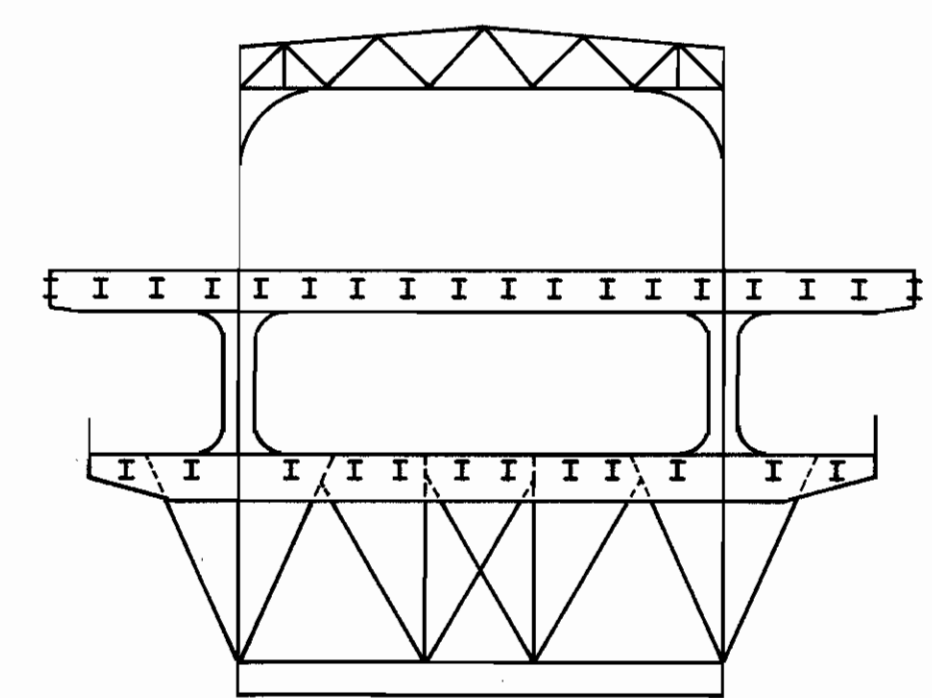
TYPICAL SUSPENDED DECK CROSS SECTION
PANEL POINTS 6 THRU 6'



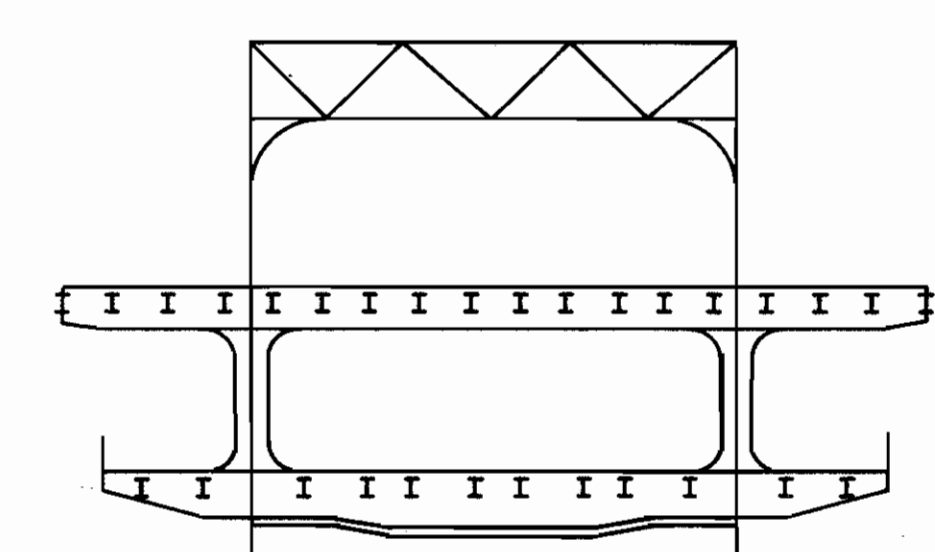
SECTION U₀-L₀



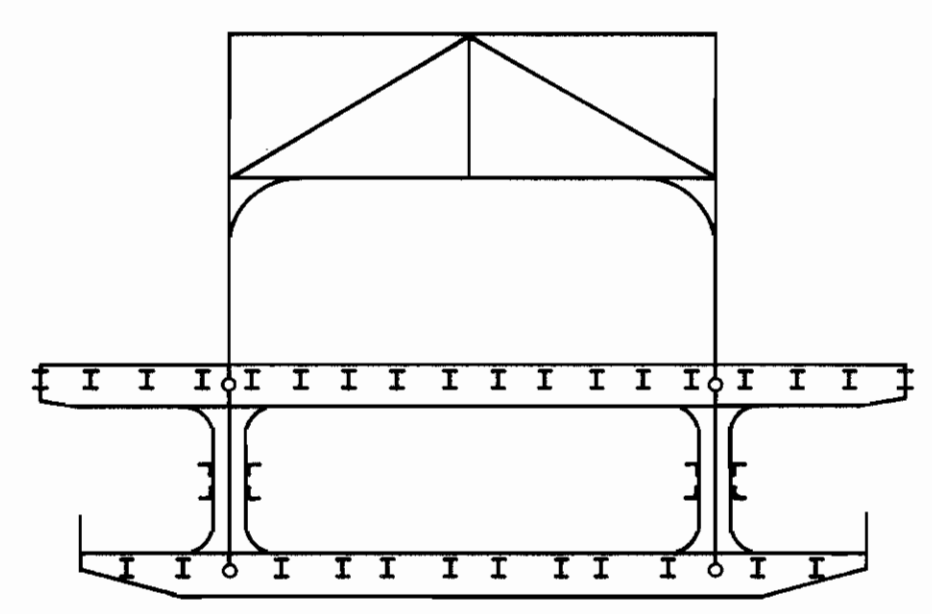
SECTION U₁-L₁



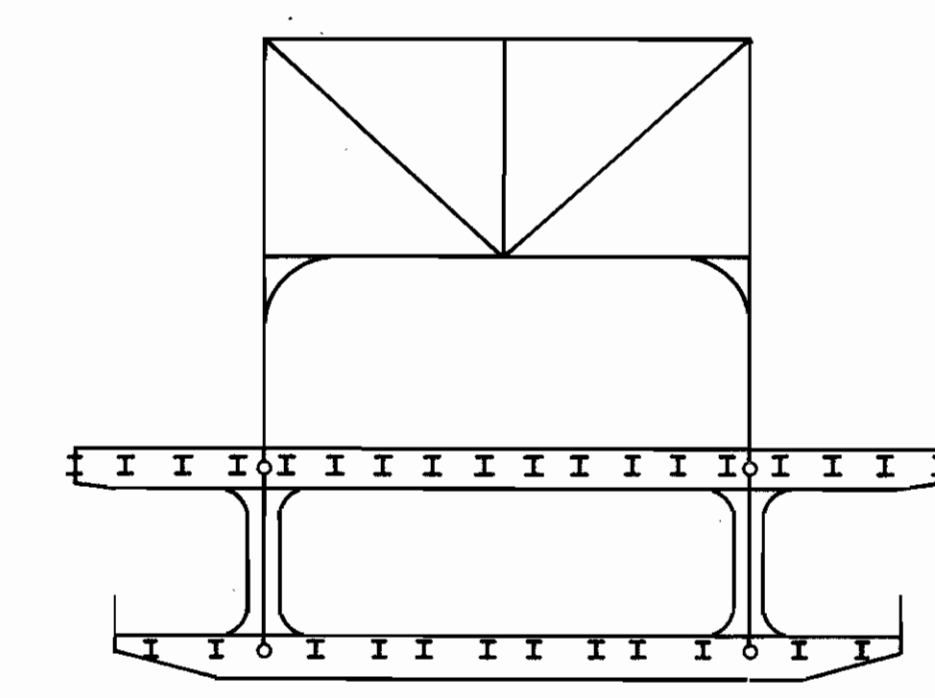
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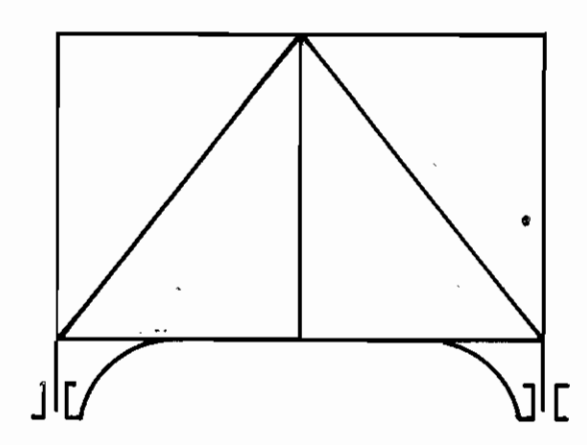
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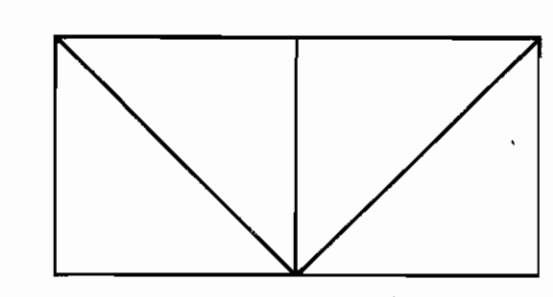
SECTION U₄-L₄



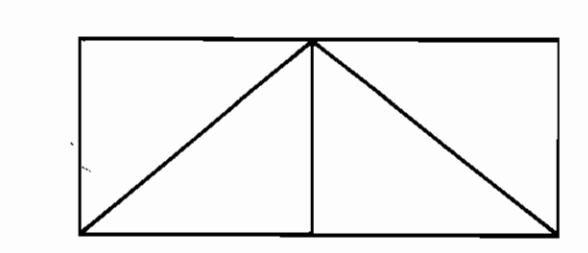
SECTION U₅-L₅



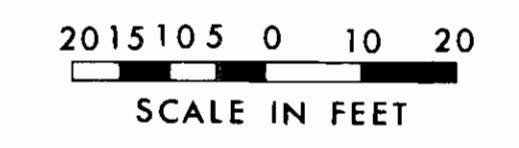
SECTION U₆-L₆



SECTION U₇-L₇, U₉-L₉, U₁₁-L₁₁



SECTION U₈-L₈, U₁₀-L₁₀, U₁₂-L₁₂



COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

FRAMING PLAN - SPAN 4
CROSS SECTIONS
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
C.K.B.	G.C.A.	C.E.P.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
4/12/90	4/13/90	4/18/90	4/5/94	

FHWA REGION	STATE	PROJECT
5	OHIO	

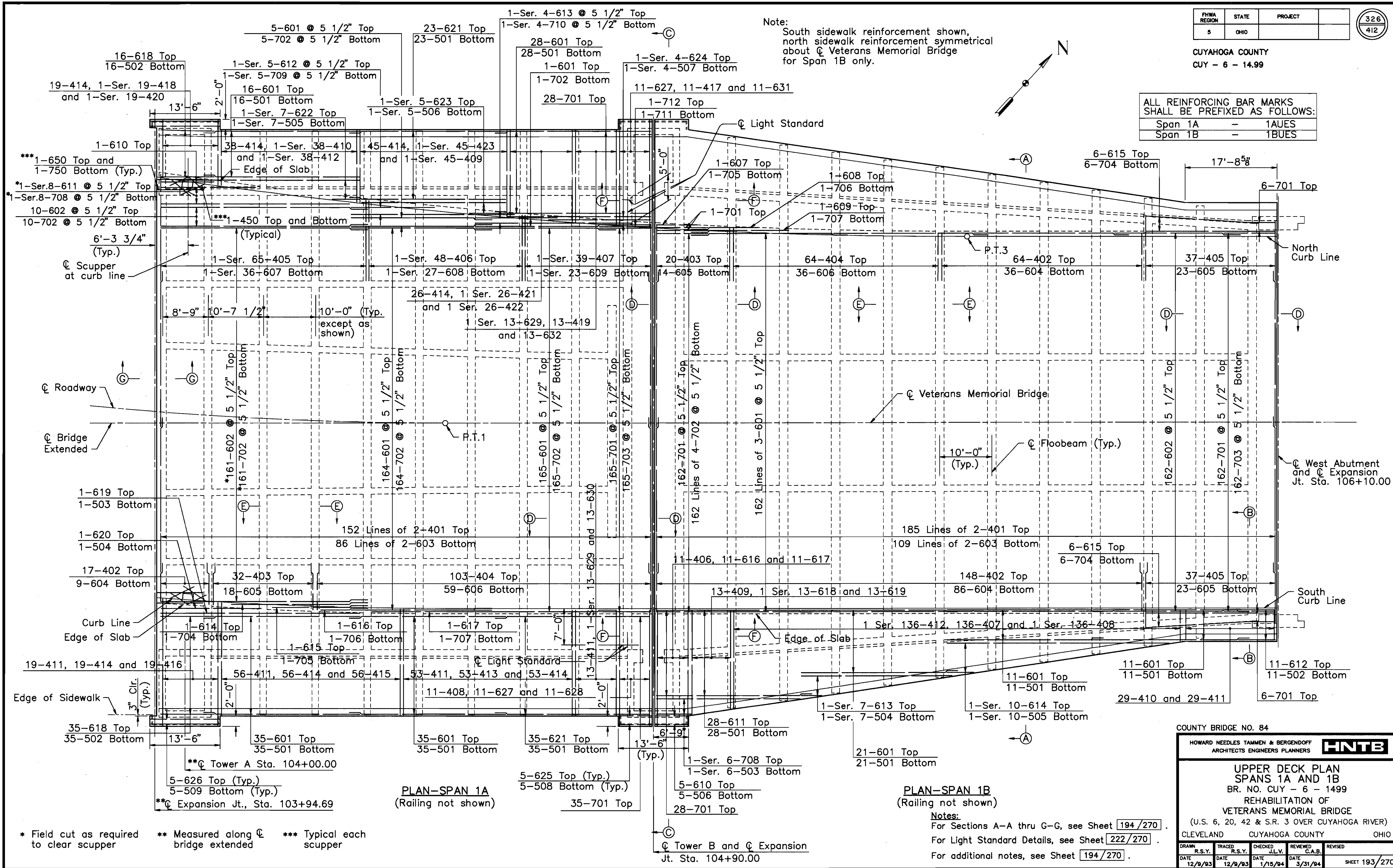
326
412

CUYAHOGA COUNTY
CUY - 6 - 14.99

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

Span 1A	-	1AUES
Span 1B	-	1BUES

Note:
South sidewalk reinforcement shown, north sidewalk reinforcement symmetrical about \bar{C} Veterans Memorial Bridge for Span 1B only.



PLAN-SPAN 1A
(Railing not shown)

PLAN-SPAN 1B
(Railing not shown)

* Field cut as required to clear scupper
** Measured along \bar{C} bridge extended
*** Typical each scupper

Notes:
For Sections A-A thru G-G, see Sheet 194/270.
For Light Standard Details, see Sheet 222/270.
For additional notes, see Sheet 194/270.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

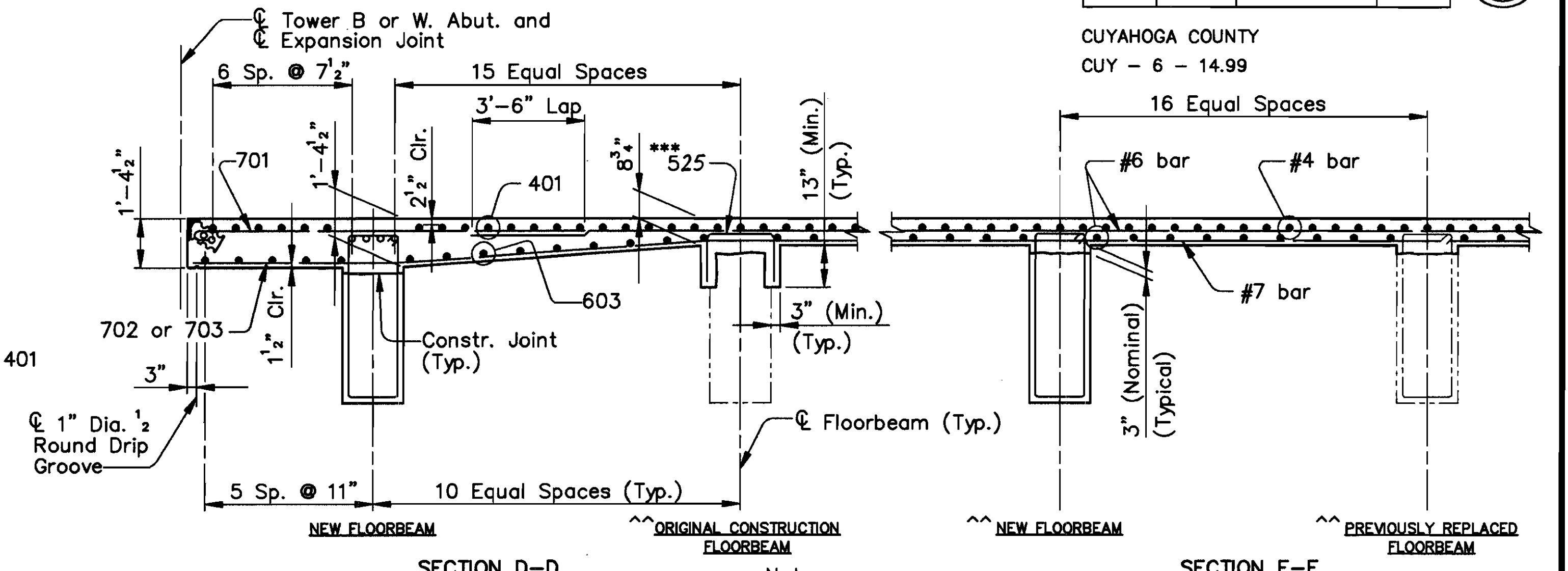
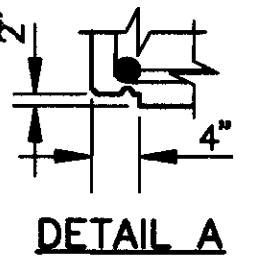
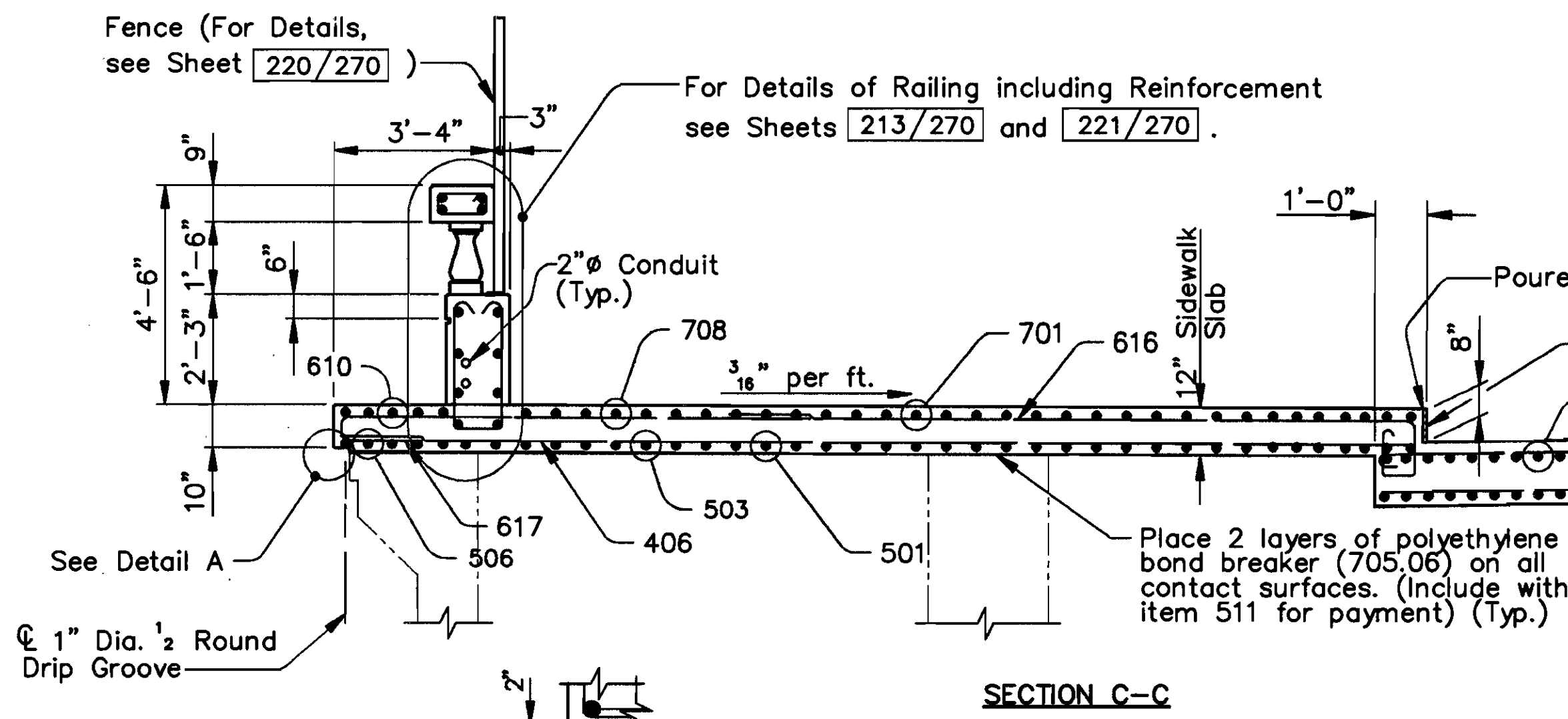
HNTB

UPPER DECK PLAN
SPANS 1A AND 1B
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRWN	R.S.Y.	TRACED	R.S.Y.	CHECKED	J.L.V.	REVIEWED	C.A.B.	REVISED
DATE	12/9/93	DATE	12/9/93	DATE	1/15/94	DATE	3/31/94	

SHEET 193/270

\\11646\SPAN1A.DWG

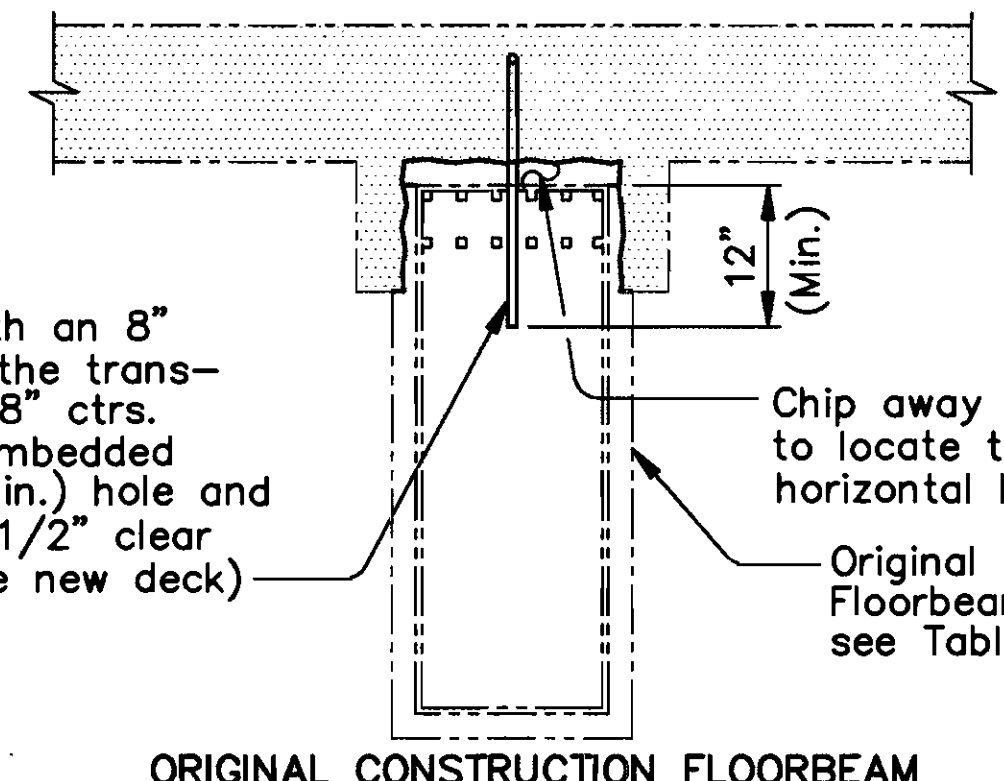


Notes:

- * Typical for Deck and Sidewalk Slabs.
- **Original Construction Jack Arches shown. For details of Previously Replaced Jack Arches, see Sheet 48/270. For Jack Arch Replacement Details, see Sheet 116/270. For Existing Reinforcement in Jack Arches, see Sheet 51/270.
- *** Install 525 bars to match every other longitudinal bar at the following Original Construction Floorbeams:

SPAN 1A	
South Bay - Floorbeam	1A,2 thru 1A,8

SPAN 1B	
North Bay - Floorbeam	1B,2 thru 1B,6
South Bay - Floorbeam	1B,2
	1B,3



ORIGINAL CONSTRUCTION FLOORBEAM
MODIFICATION DETAIL

SPAN 1A		SPAN 1B	
South Bay - Floorbeam	1A,8	South Bay - Floorbeam	1B,2
		North Bay - Floorbeam	1B,2

BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 1A	1AUES
SPAN 1B	1BUES

Legend

Indicates Deck Removal

Notes:

- For Member Identification and Removal Plan, see Sheet 23/270.
- For Floorbeam Removal see Sheet 50/270.
- For Floorbeam Replacement see Sheet 118/270.

COUNTY BRIDGE NO. 84

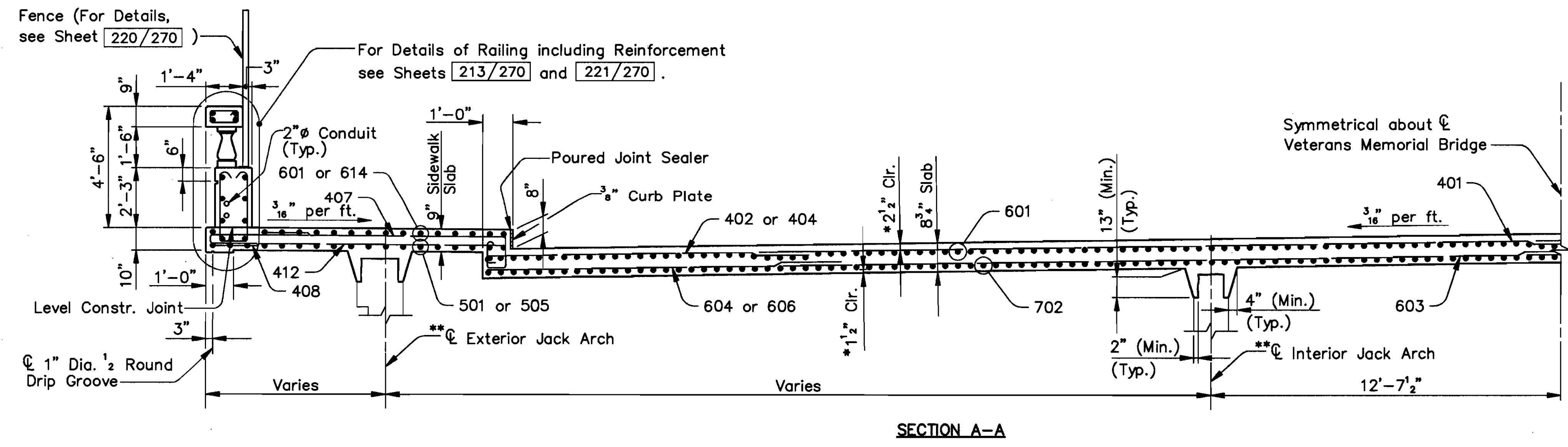
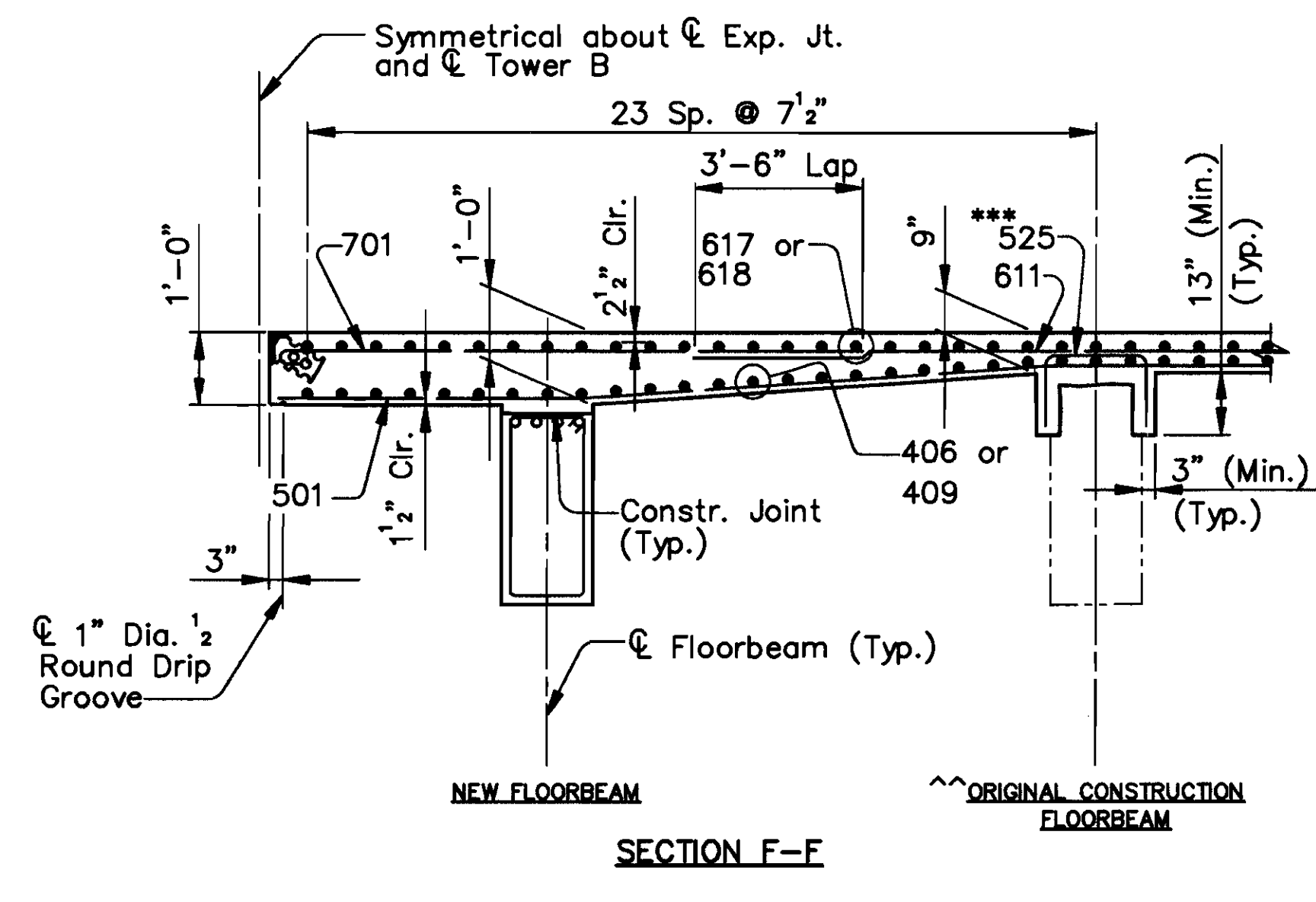
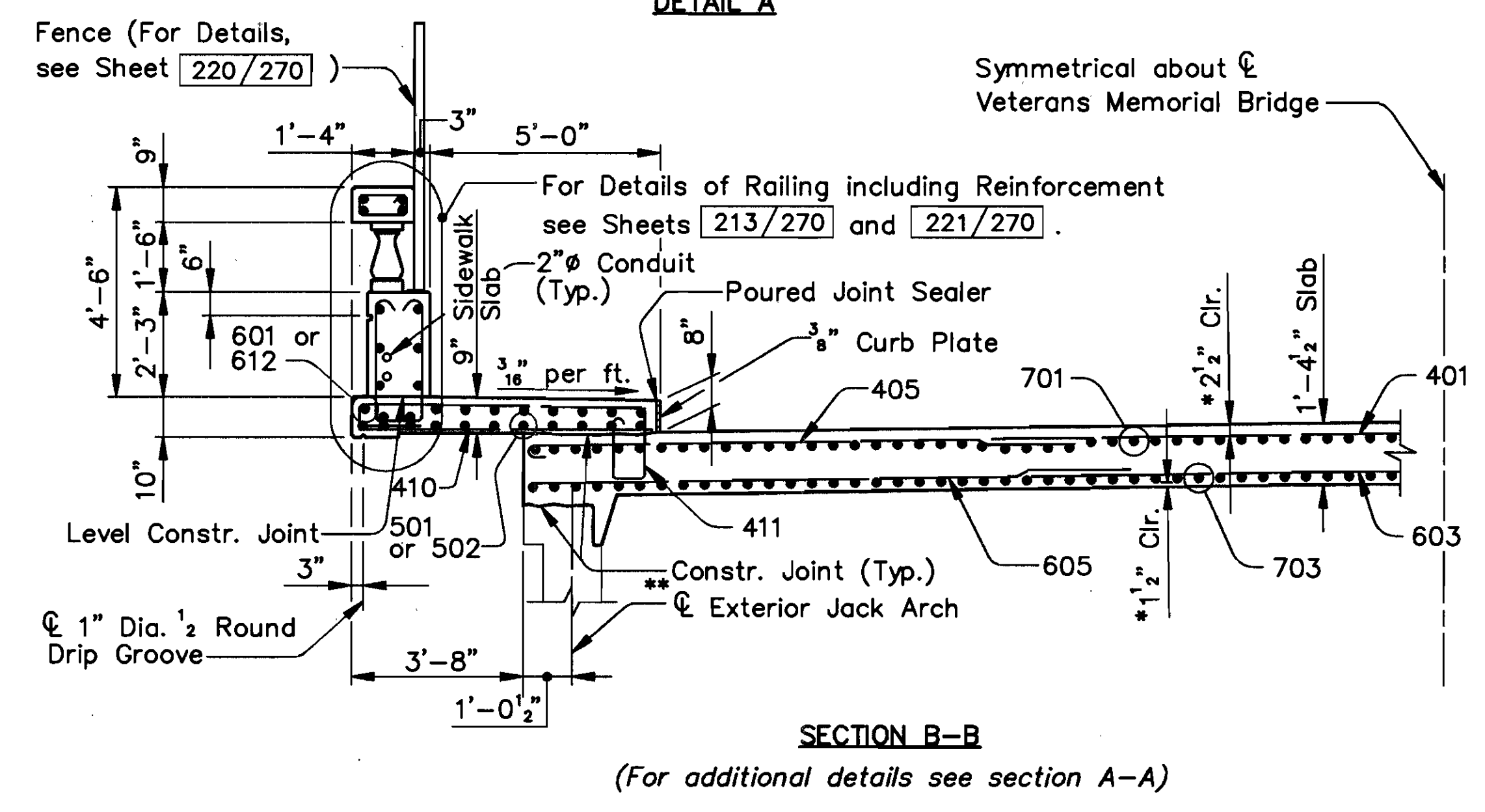
HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

UPPER DECK DETAILS
SPANS 1A AND 1B
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

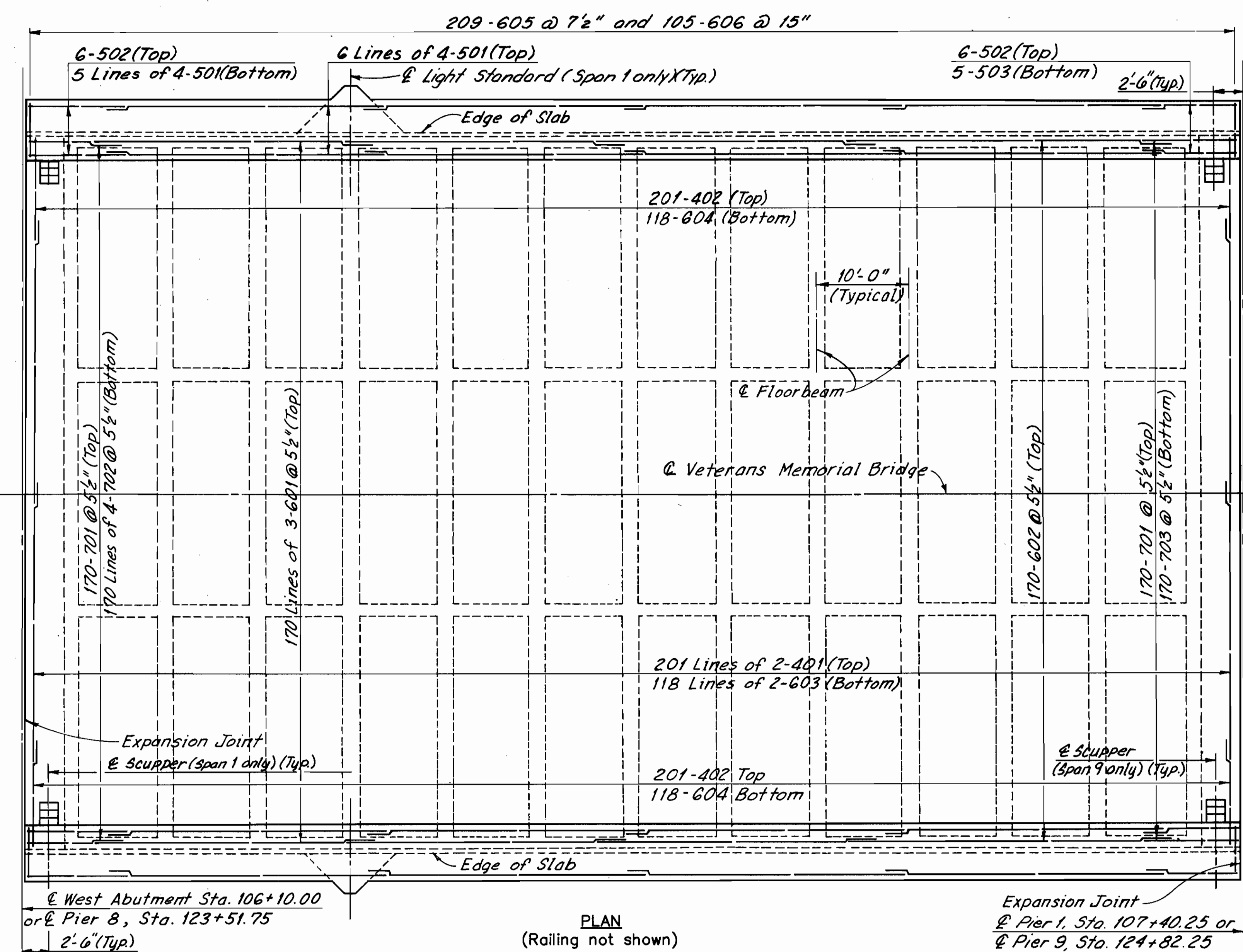
DRAWN	R.S.Y.	TRACED	R.S.Y.	CHECKED	J.L.V.	REVIEWED	C.A.B.	REVISED
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1/12/94	1/12/94	1/15/94	1/15/94	3/31/94				

SHEET 194/270



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CUYAHOGA COUNTY
CUY - 6 - 14.99

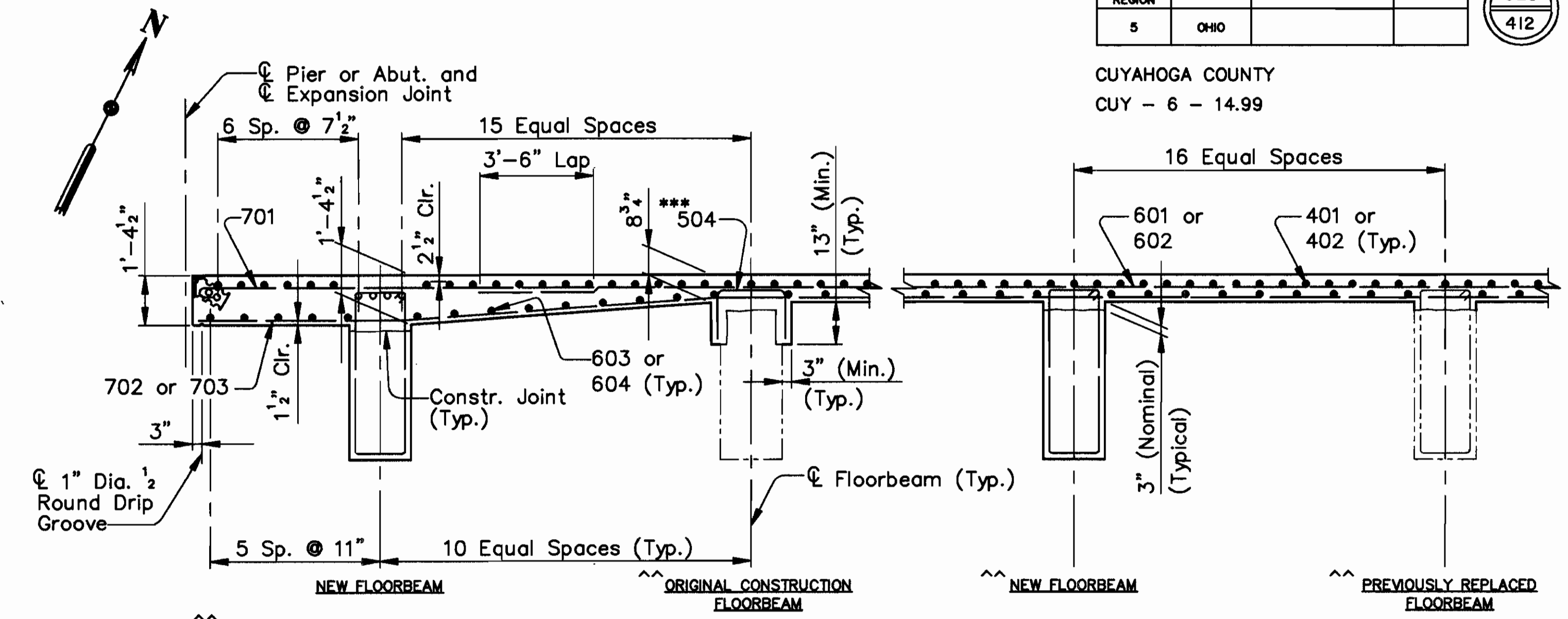


PLAN
(Railing not shown)

Expansion Joint
@ Pier 1, Sta. 107+40.25 or
@ Pier 9, Sta. 124+82.25

Note:
Field cut 402 and 604 bars as
required to clear the scuppers.

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 1	- 1UES
SPAN 9	- 9UES

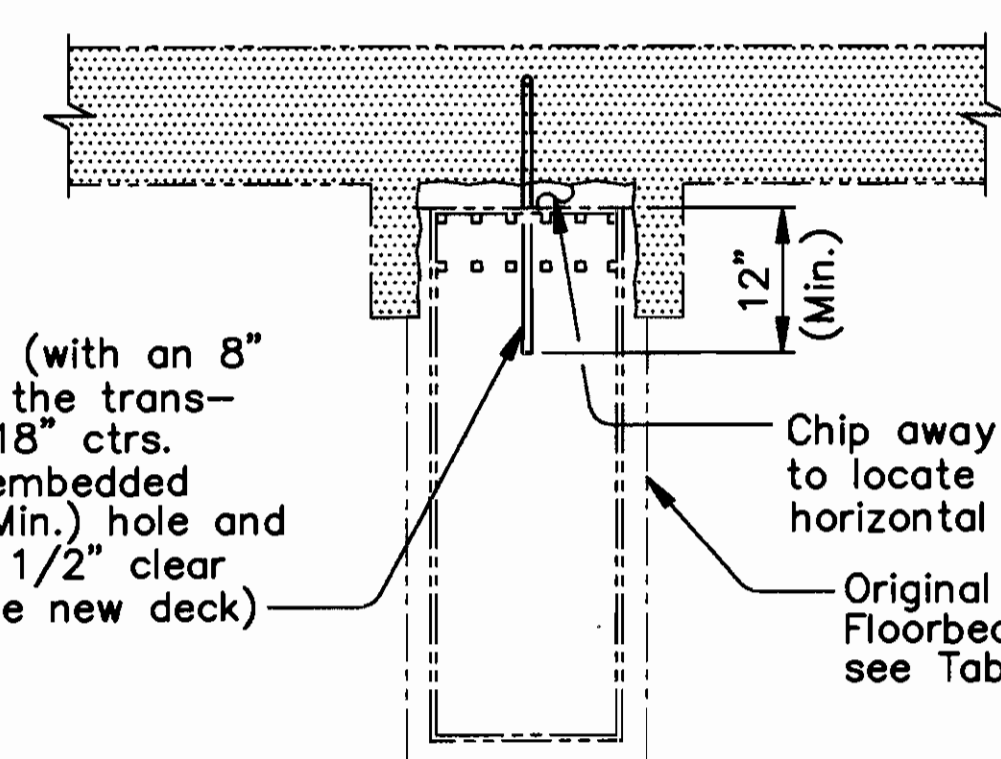


TYPICAL LONGITUDINAL SECTION
(Transverse Reinf. in Floorbeams not shown)

*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 1	SPAN 9
North Bay - Floorbeam	North Bay - Floorbeam
1, 4	9, 2 thru 9, 6
1, 6	9, 11
1, 7	South Bay - Floorbeam
1, 8	9, 2 thru 9, 12

16-403 Dowel Bars (with an 8" horz. leg placed in the transverse direction @ 18" ctrs. (The bar shall be embedded into a 1"Ø x 12" (Min.) hole and the bar shall be 2 1/2" clear from the top of the new deck)



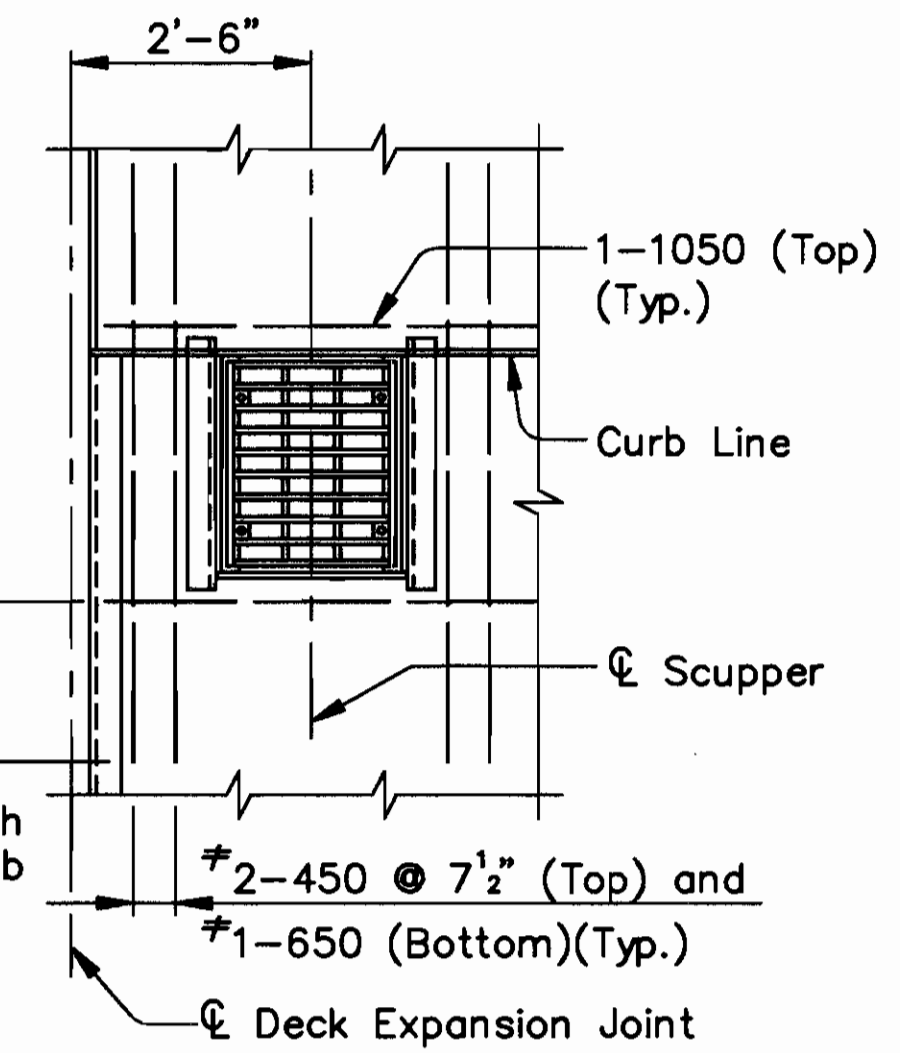
ORIGINAL CONSTRUCTION FLOORBEAM
MODIFICATION DETAIL

SPAN 9	
North Bay - Floorbeam	9, 2
South Bay - Floorbeam	9, 2 and 9, 12

Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.
For details of Previously Replaced Jack Arches, see Sheet 48/270.
For Jack Arch Replacement Details, see Sheet 116/270.
For Existing Reinforcement in Jack Arches, see Sheet 51/270.

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)



SCUPPER DETAIL
(Typical for Spans 1 thru 3, and Spans 5 thru 10)

Legend

Indicates Deck Removal

Notes:

For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheet 118/270.
For Light Standard Support Details, see Sheet 222/270.

COUNTY BRIDGE NO. 84

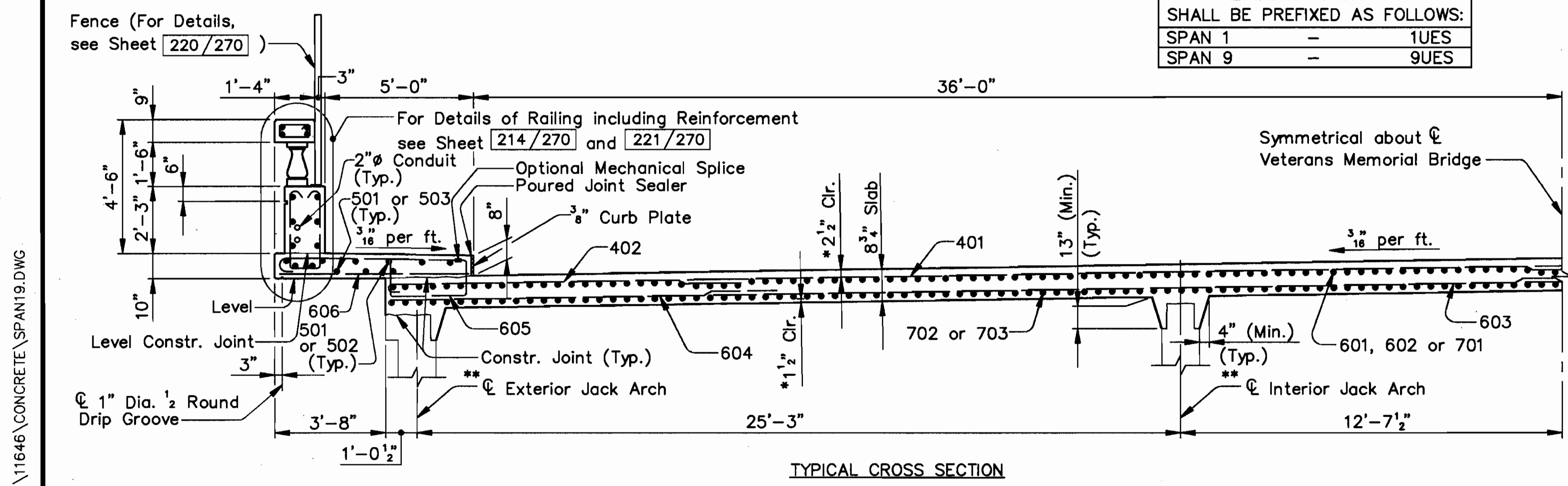
HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS



UPPER DECK PLAN
SPANS 1 AND 9
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)

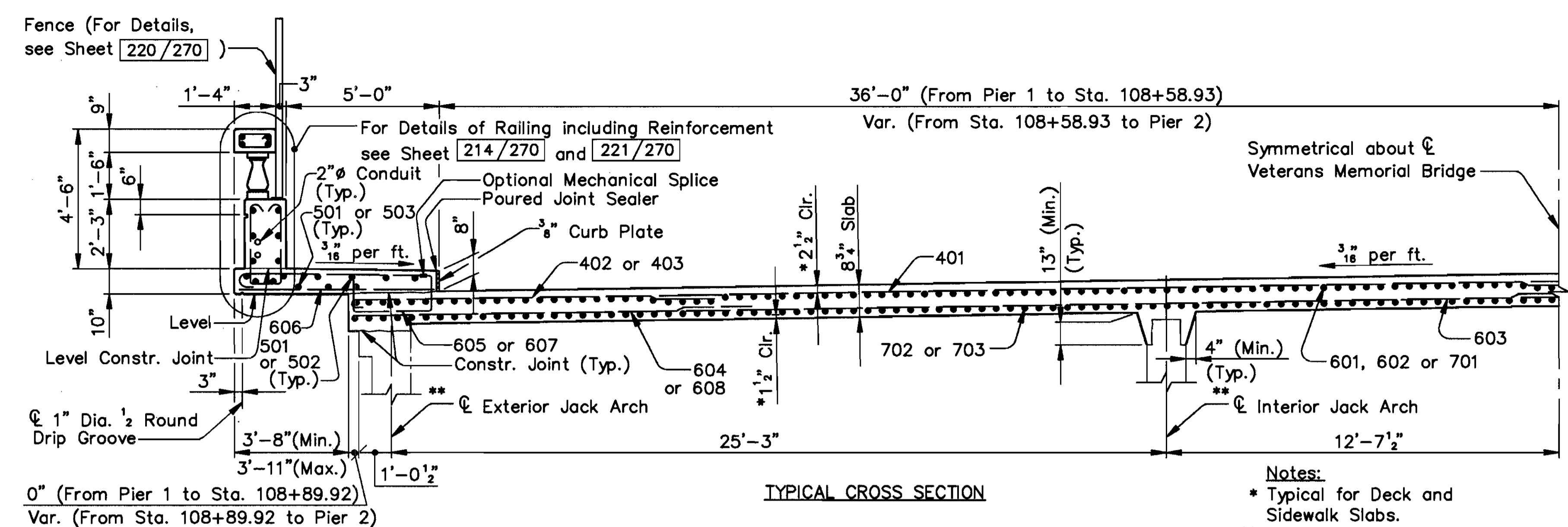
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISION
R.S.Y./J.L.V.	R.S.Y./J.L.V.	J.L.V./R.S.Y.	C.A.B.	
DATE	DATE	DATE	DATE	
2/23/94	2/23/94	2/24/94	4/06/94	



TYPICAL CROSS SECTION

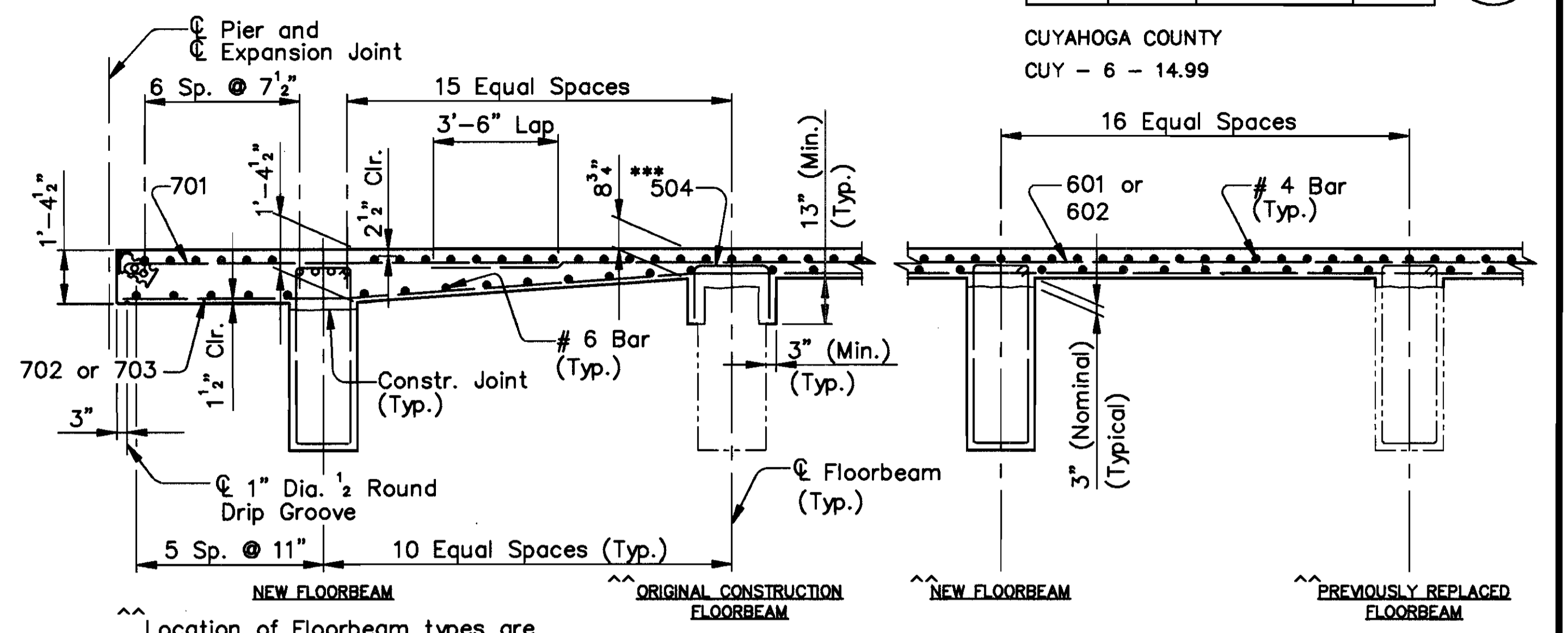
\\11646\CONCRETE\SPAN9.DWG



TYPICAL CROSS SECTION

Note:
Field cut 402 and 604 bars as required to clear the scuppers.

Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown. For additional notes, see Sheet 195/270.



TYPICAL LONGITUDINAL SECTION
(Transverse Reinf. in Floorbeams not shown)

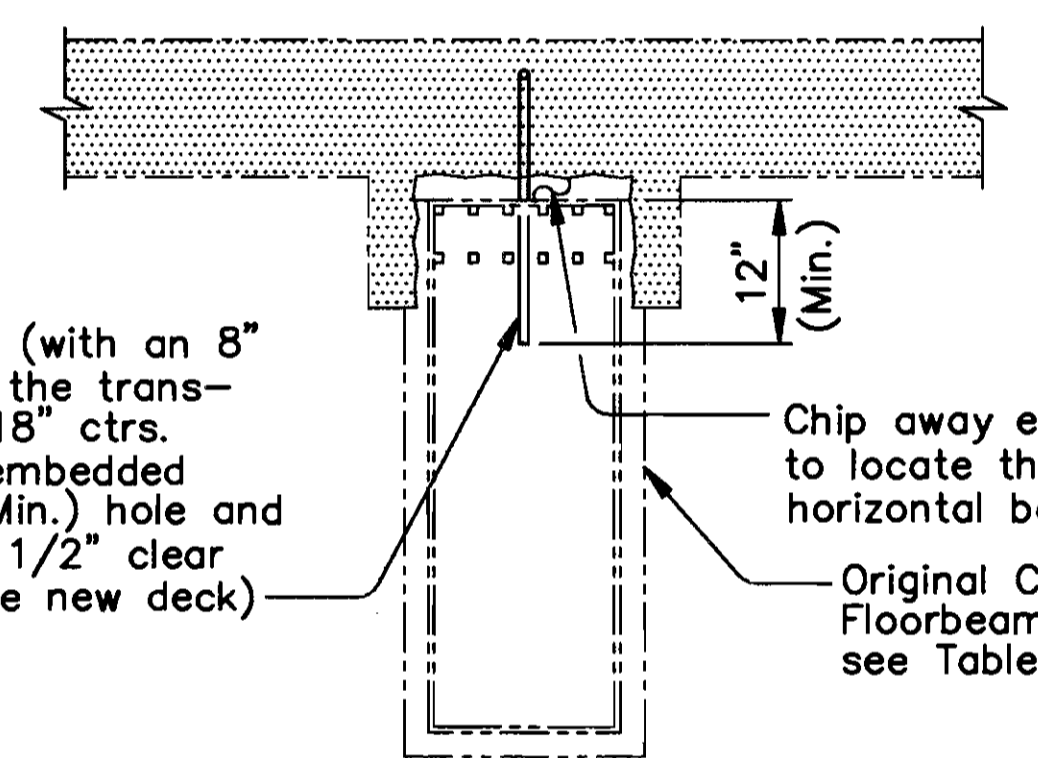
*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 2	
South Bay - Floorbeam	2, 6 thru 2, 10 and 2, 15

16-404 Dowel Bars (with an 8" horz. leg placed in the transverse direction) @ 18" ctrs. (The bar shall be embedded into a 1" x 12" (Min.) hole and the bar shall be 2 1/2" clear from the top of the new deck)

Chip away existing concrete to locate the stirrup and horizontal bars

Original Construction Floorbeam (For locations see Table)



ORIGINAL CONSTRUCTION FLOORBEAM
MODIFICATION DETAIL

SPAN 2	
South Bay - Floorbeam	2, 15

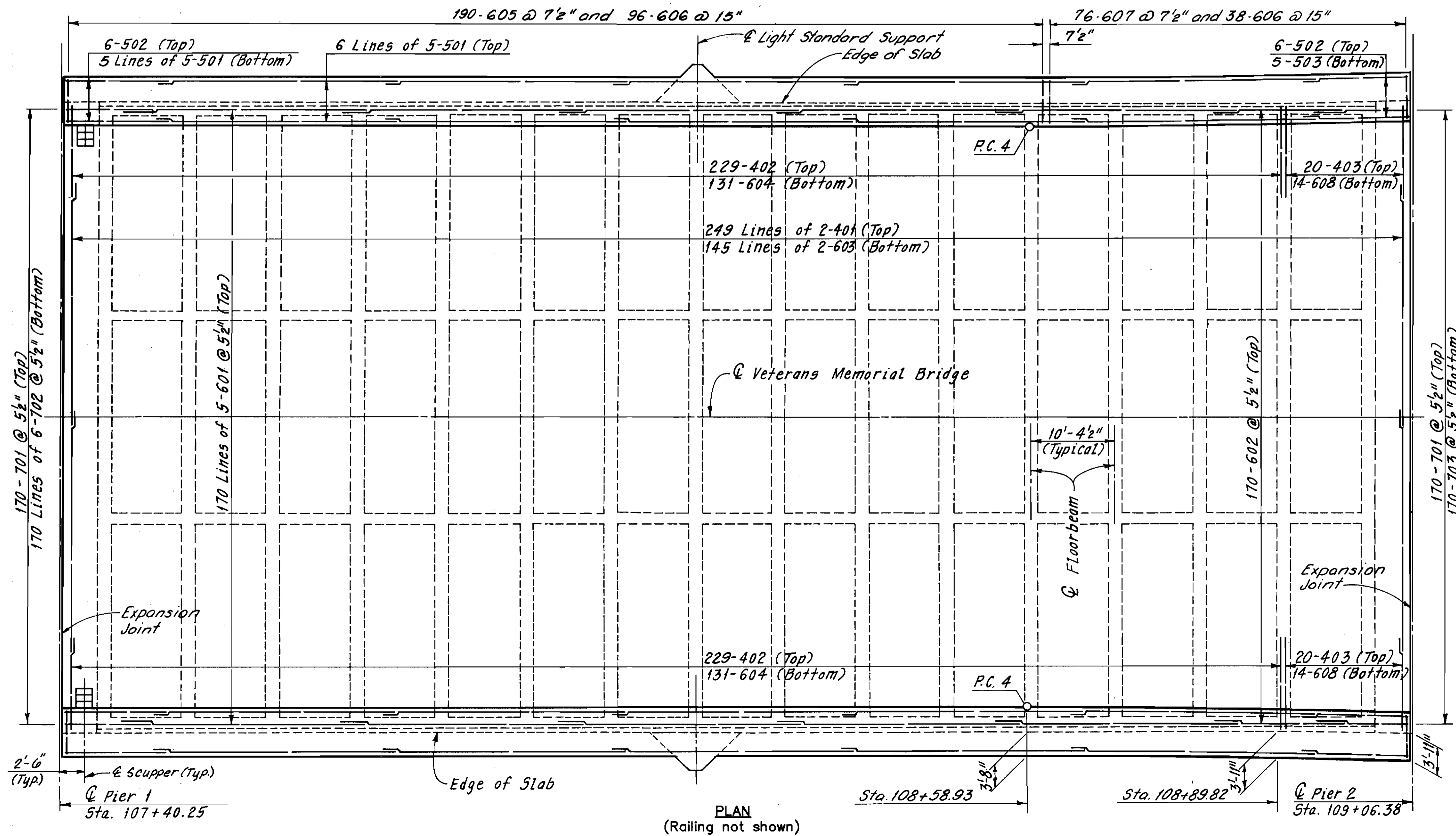
Notes:
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheet 118/270.
For Scupper Detail, see Sheet 195/270.
For Light Standard Support Details, see Sheet 222/270.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

UPPER DECK PLAN
SPAN 2
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISION
R.S.Y./J.L.V.	W.E.B./J.L.V.	J.L.V./R.S.Y.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
2/25/94	2/25/94	2/25/94	4/06/94	



PLAN
(Railing not shown)

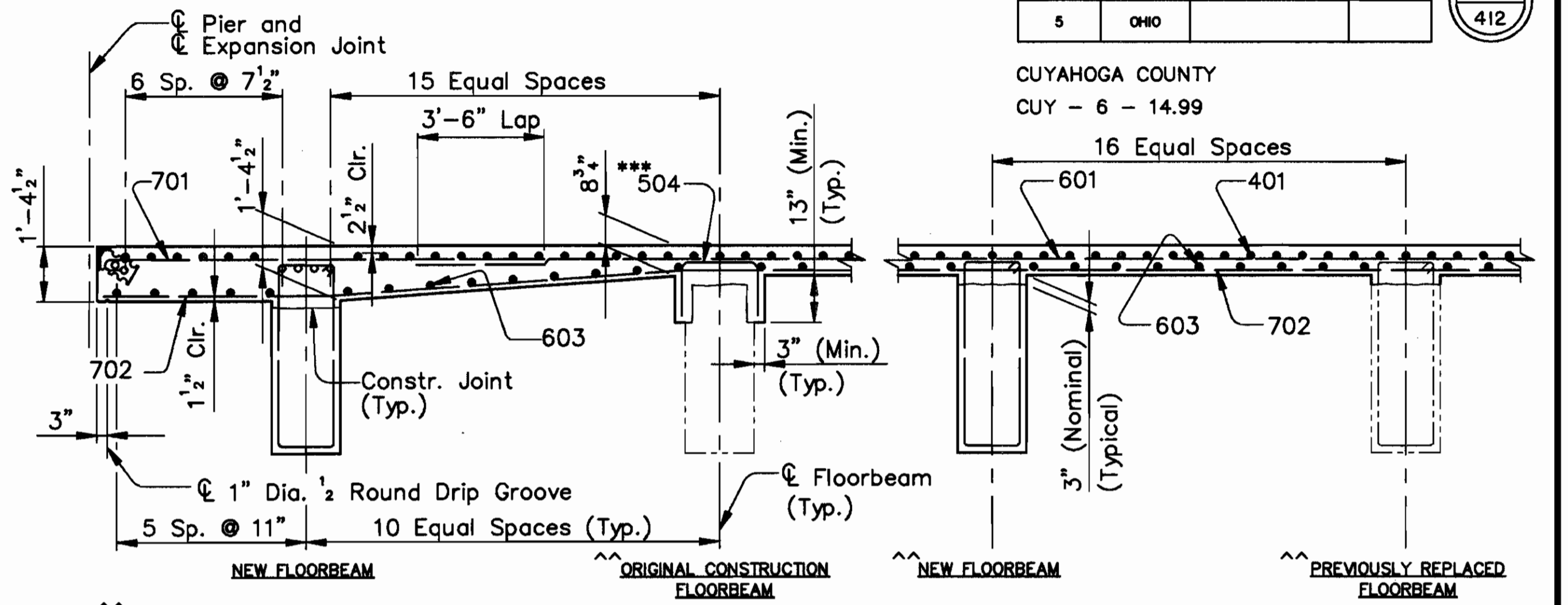
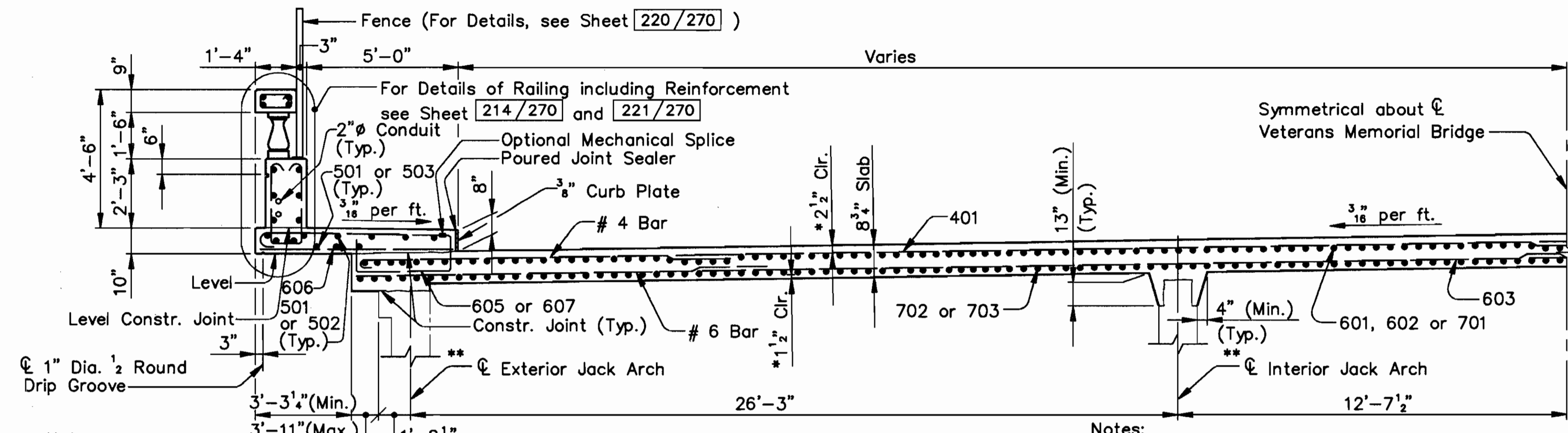
MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:
SPAN 2 - 2UES

\\11646\CONCRETE\SPAN2.DWG

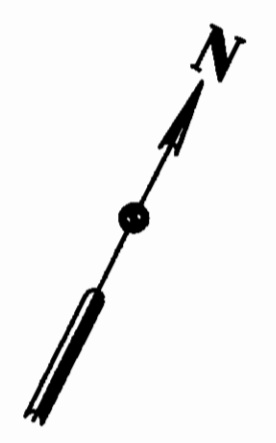
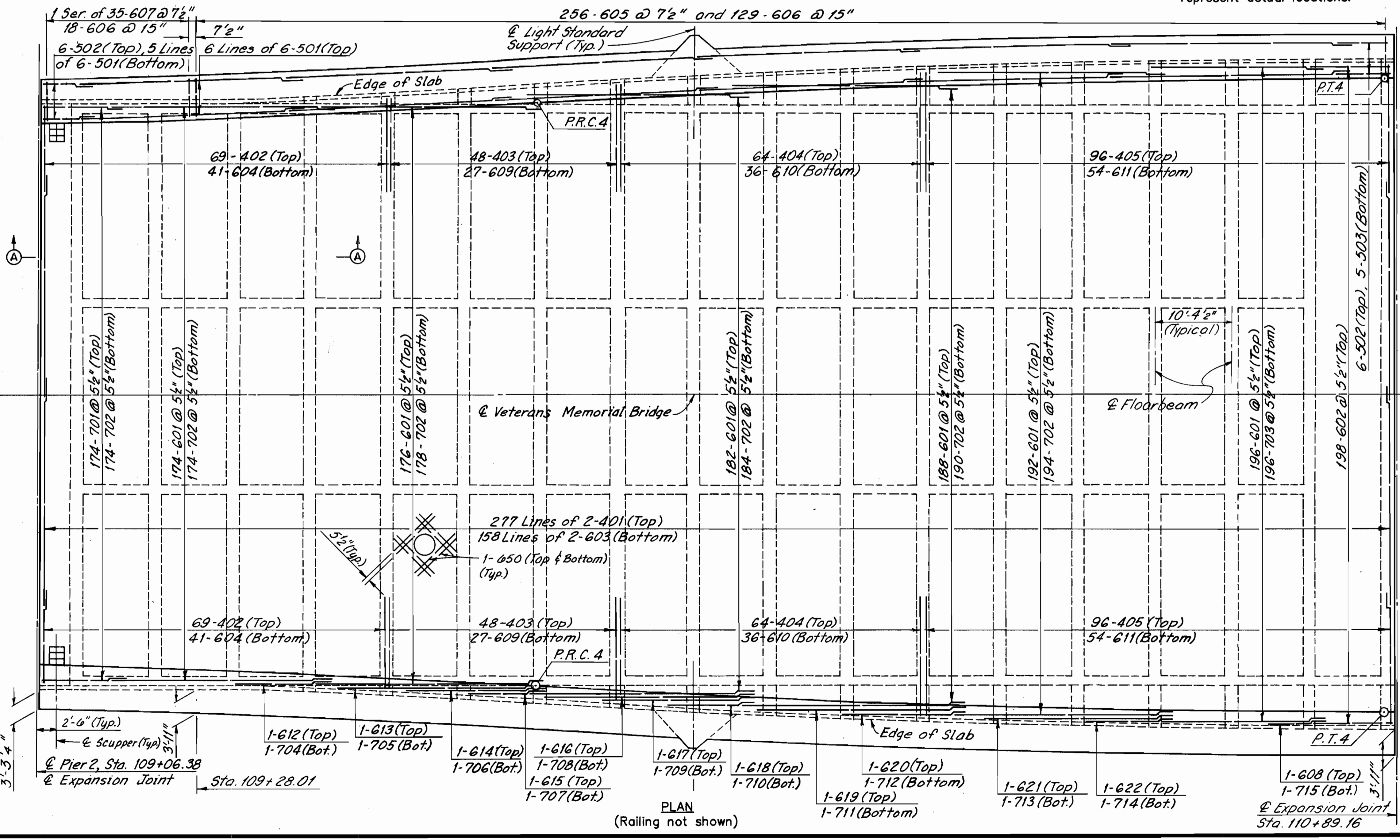
CUYAHOGA COUNTY
CUY - 6 - 1499



Notes:
Field cut 402 and 604 bars as required to clear the scuppers.
Field cut 401, 601, 603 and 702 Bars as required to clear the O.B.T. Manhole.

Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.

For additional notes, see Sheet 195/270.



*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 3
South Bay - Floorbeam
3, 8 thru 3, 11
and 3, 13 thru 3, 17

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

SPAN 3	-	3UES
--------	---	------

Notes:
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheet 119/270.
For Scupper Detail, see Sheet 195/270.
For Light Standard Support Details, see Sheet 222/270.
For O.B.T. Support Details, see Sheet 233/270.

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

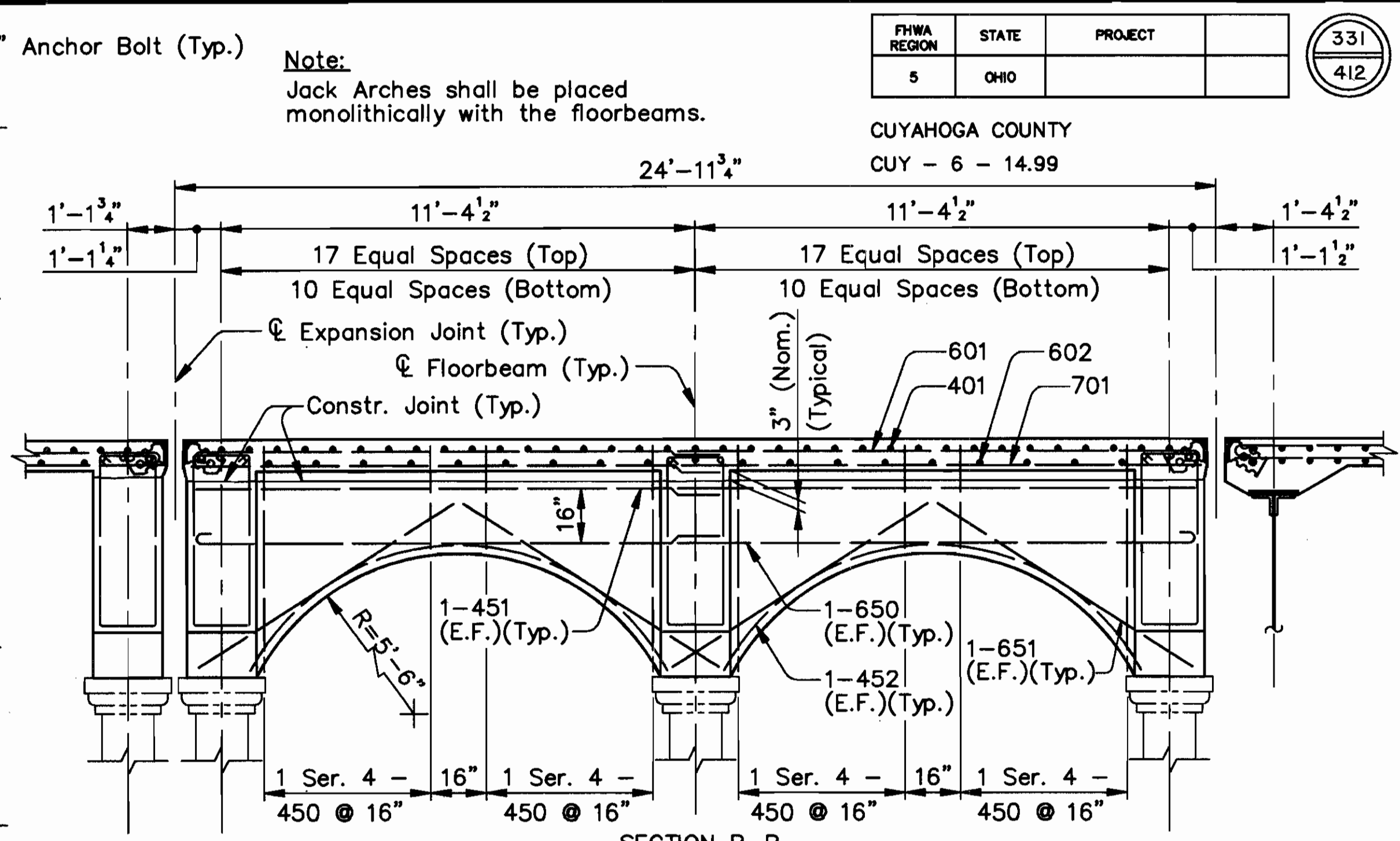
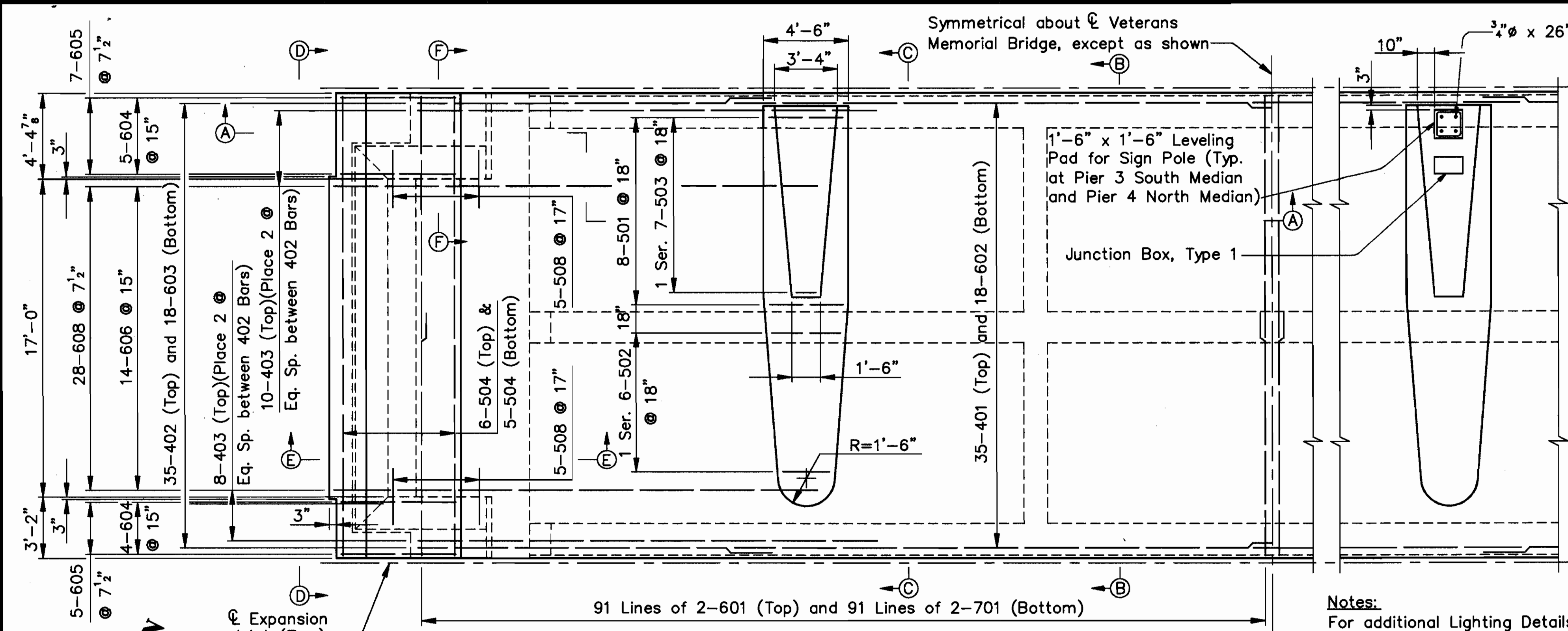
HNTB

UPPER DECK PLAN
SPAN 3
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
R.S.T./J.L.V.	W.E.B./J.L.V.	J.L.V./R.S.T.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
2/25/94	2/25/94	2/26/94	4/06/94	

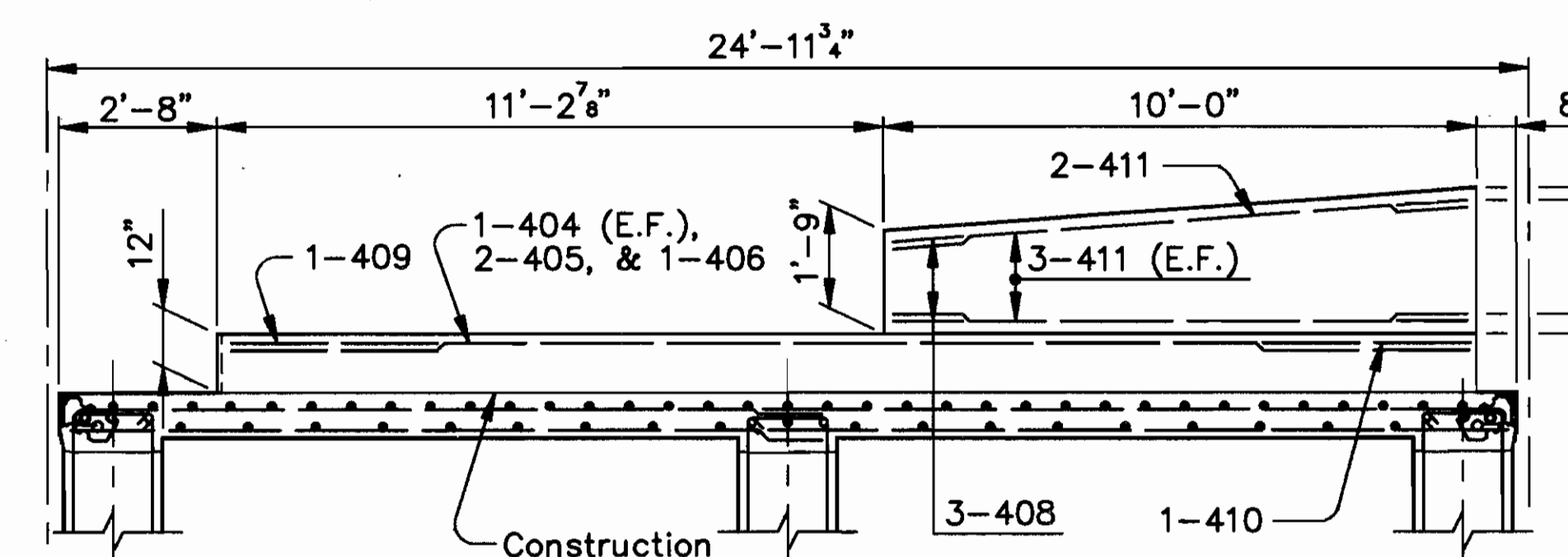
SHEET 197/270

\\11646\CONCRETE\SPAN3.DWG



Notes:
For additional Lighting Details, see Sheet E9 of 412.
For anchor bolt detail, see Std. Constr. Dwg. No. TC-83.20.

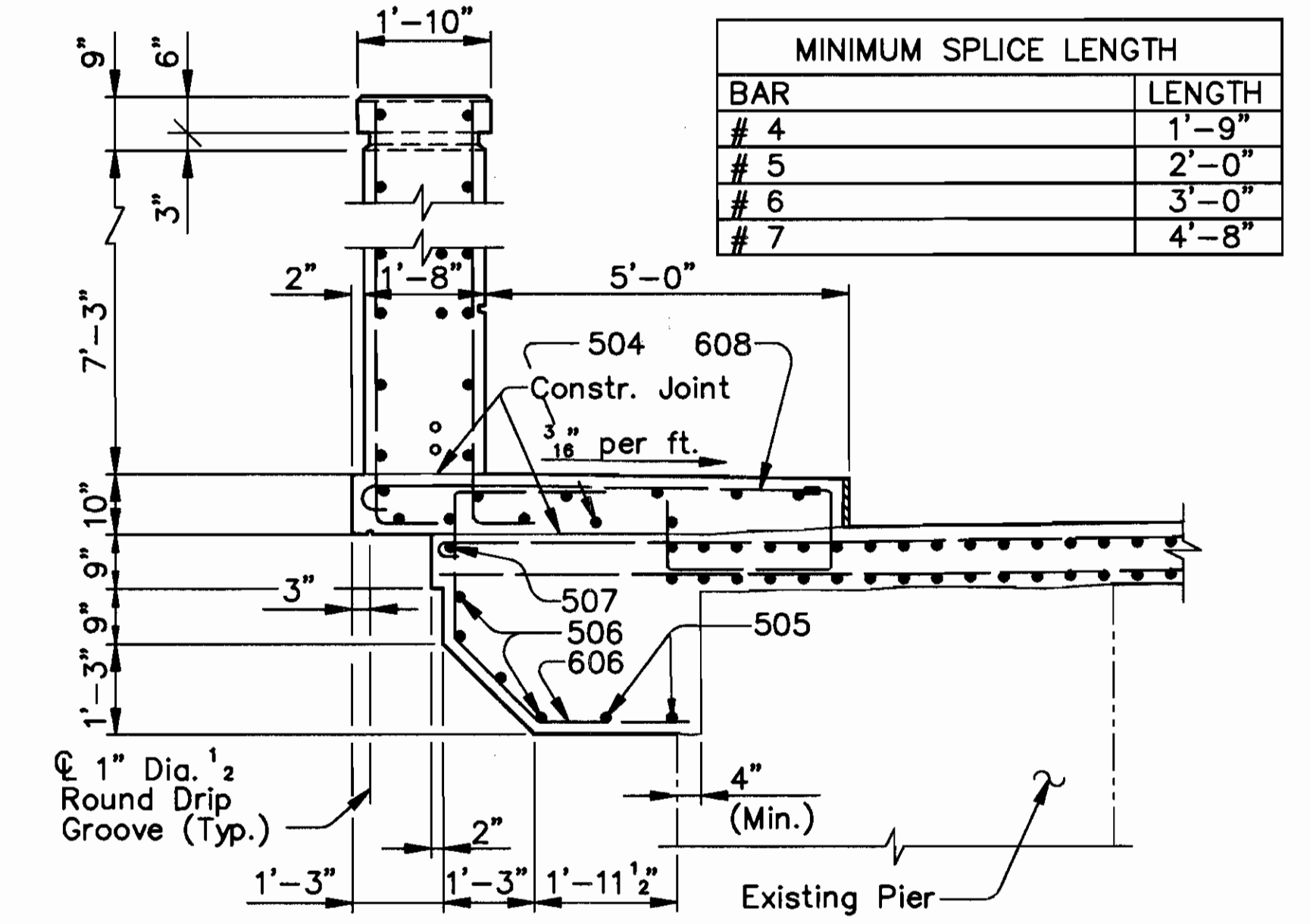
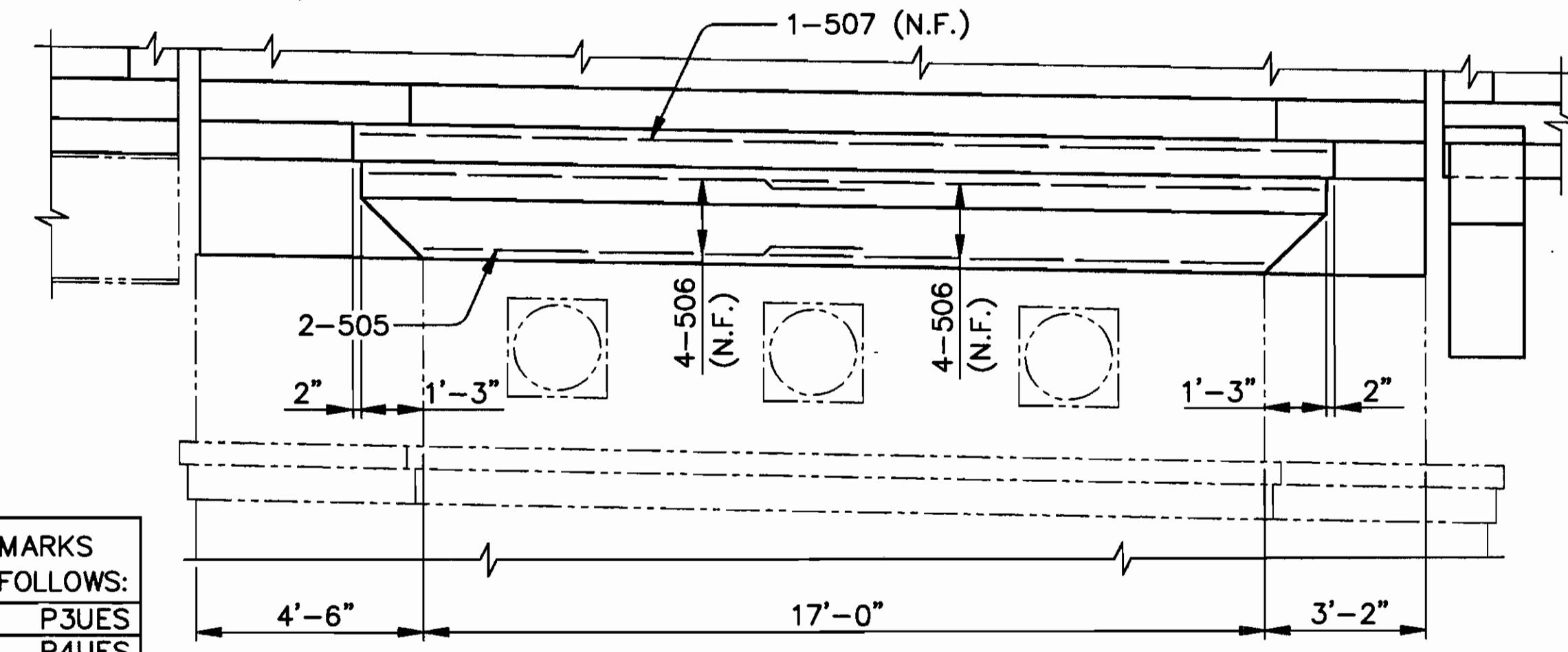
PLAN
(Railing not shown)
(Pier 3 shown, Pier 4 similar)



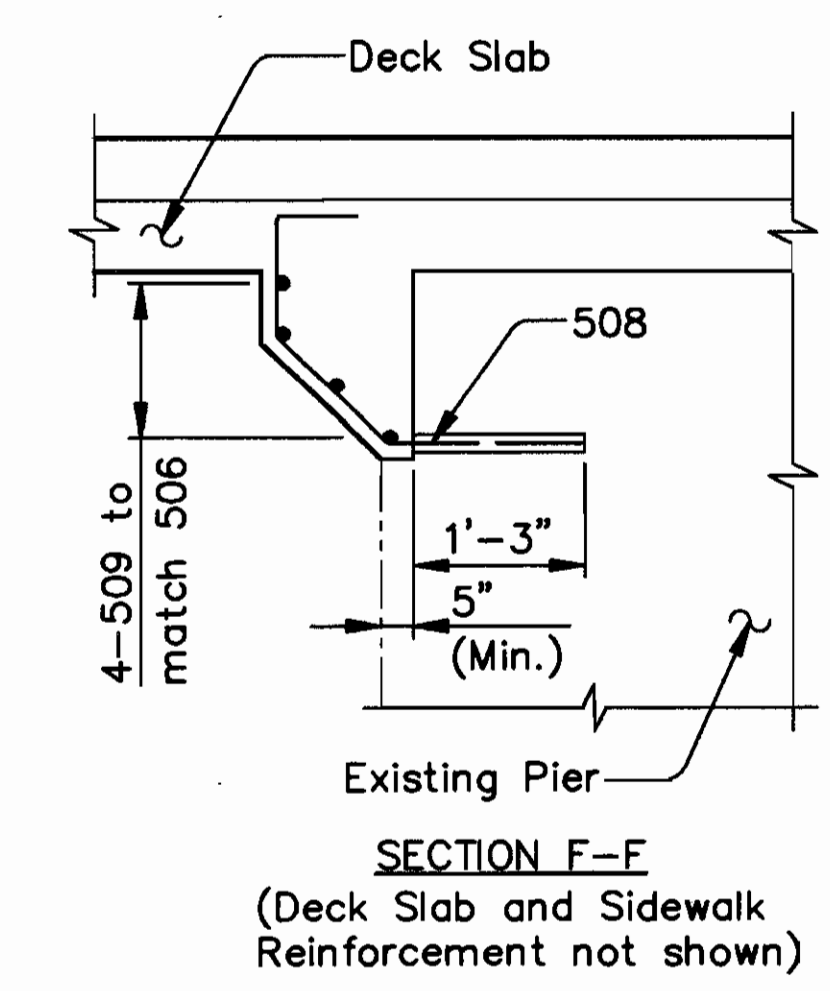
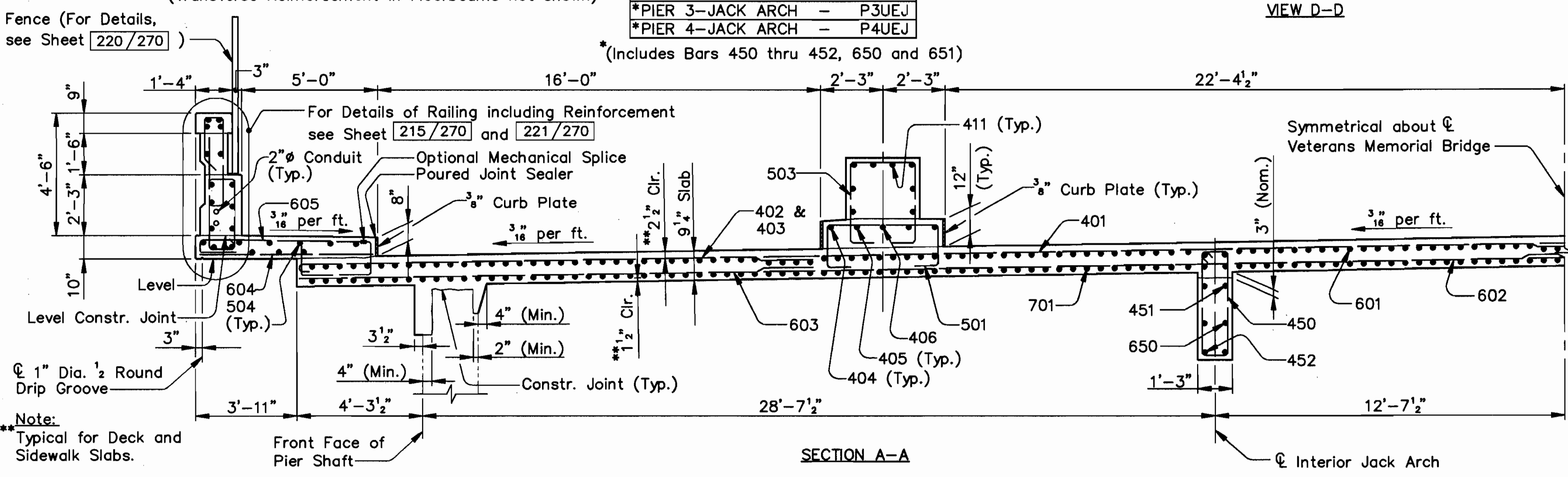
ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

PIER 3	- P3UES
PIER 4	- P4UES
*PIER 3-JACK ARCH	- P3UEJ
*PIER 4-JACK ARCH	- P4UEJ

*(Includes Bars 450 thru 452, 650 and 651)



BAR	MINIMUM SPLICE LENGTH
# 4	1'-9"
# 5	2'-0"
# 6	3'-0"
# 7	4'-8"



Notes:
For Suggested Construction Sequence, see Sheet 41/270.
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Details, see Sheet 117/270.

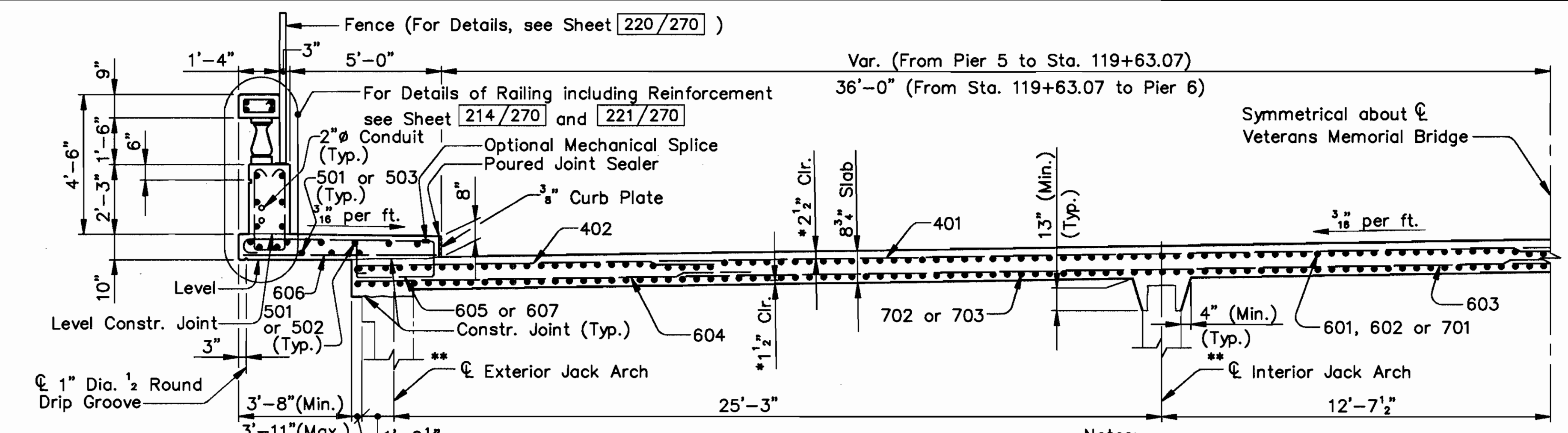
COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

UPPER DECK PLAN
PIERS 3 AND 4
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	J.L.V.	TRACED	J.L.V.	CHECKED	R.S.Y.	REVIEWED	C.A.B.	REVISED
DATE	2/23/94	DATE	2/23/94	DATE	3/08/94	DATE	4/05/94	SHEET 198/270

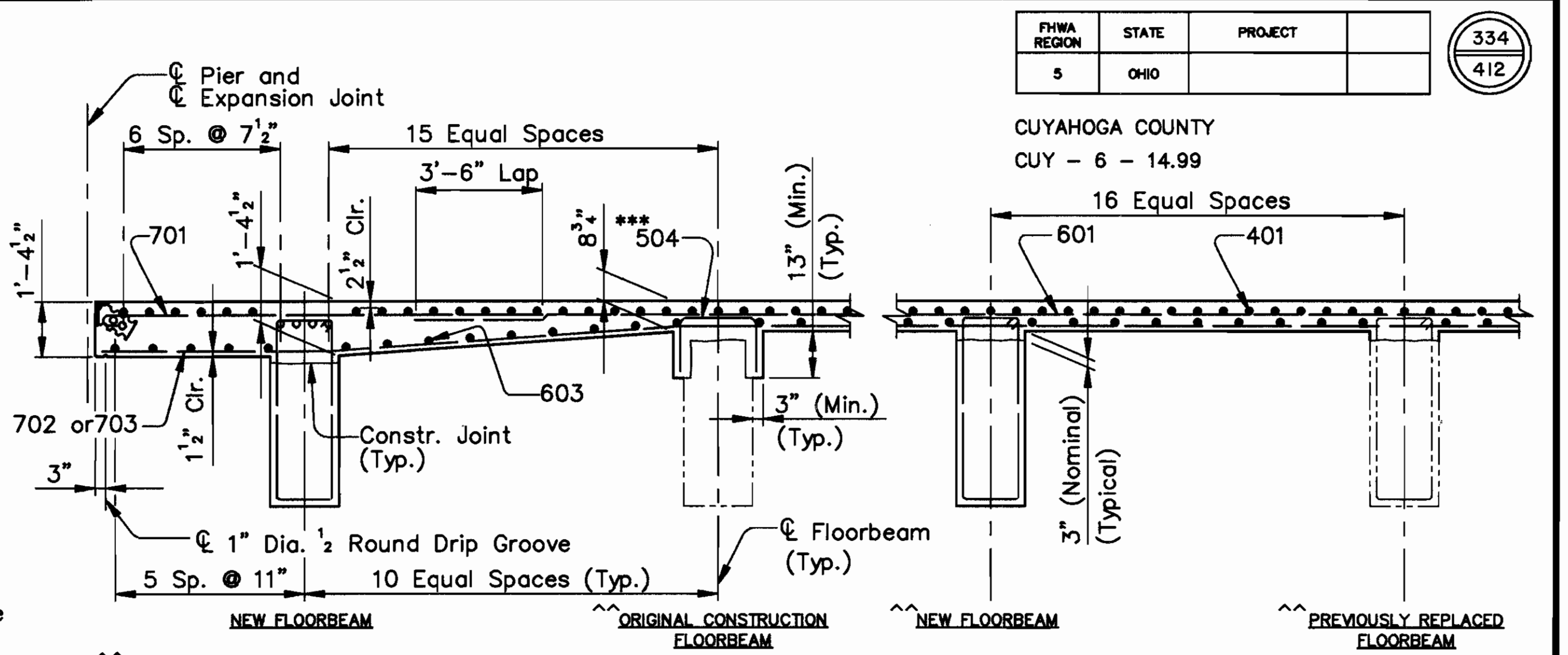


Var. (From Pier 5 to Sta. 119+63.07)
 36'-0" (From Sta. 119+63.07 to Pier 6)
 Symmetrical about \bar{C} Veterans Memorial Bridge

TYPICAL CROSS SECTION

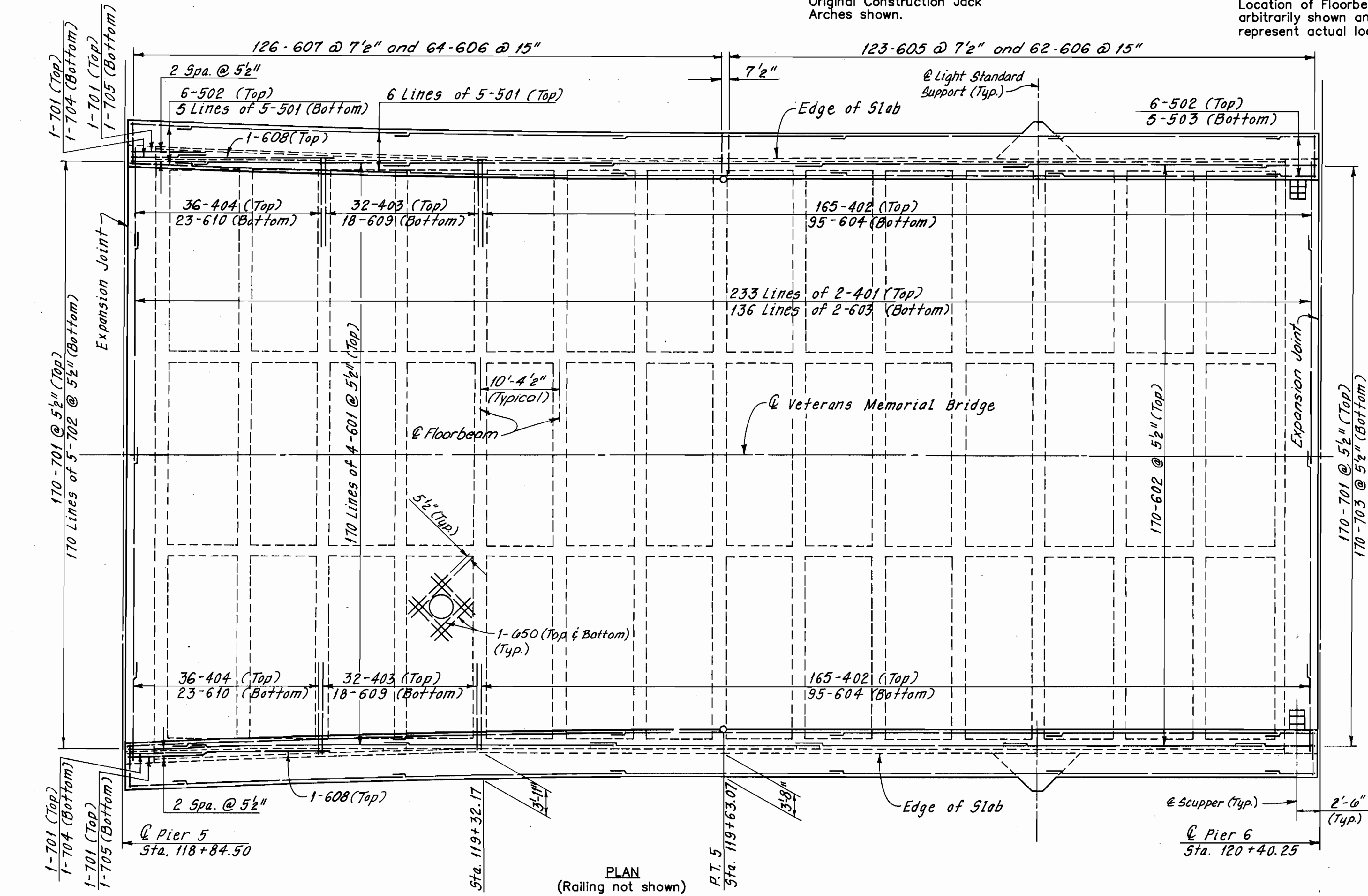
Notes:
 * Typical for Deck and Sidewalk Slabs.
 ** Original Construction Jack Arches shown.

For additional notes, see Sheet 195/270.



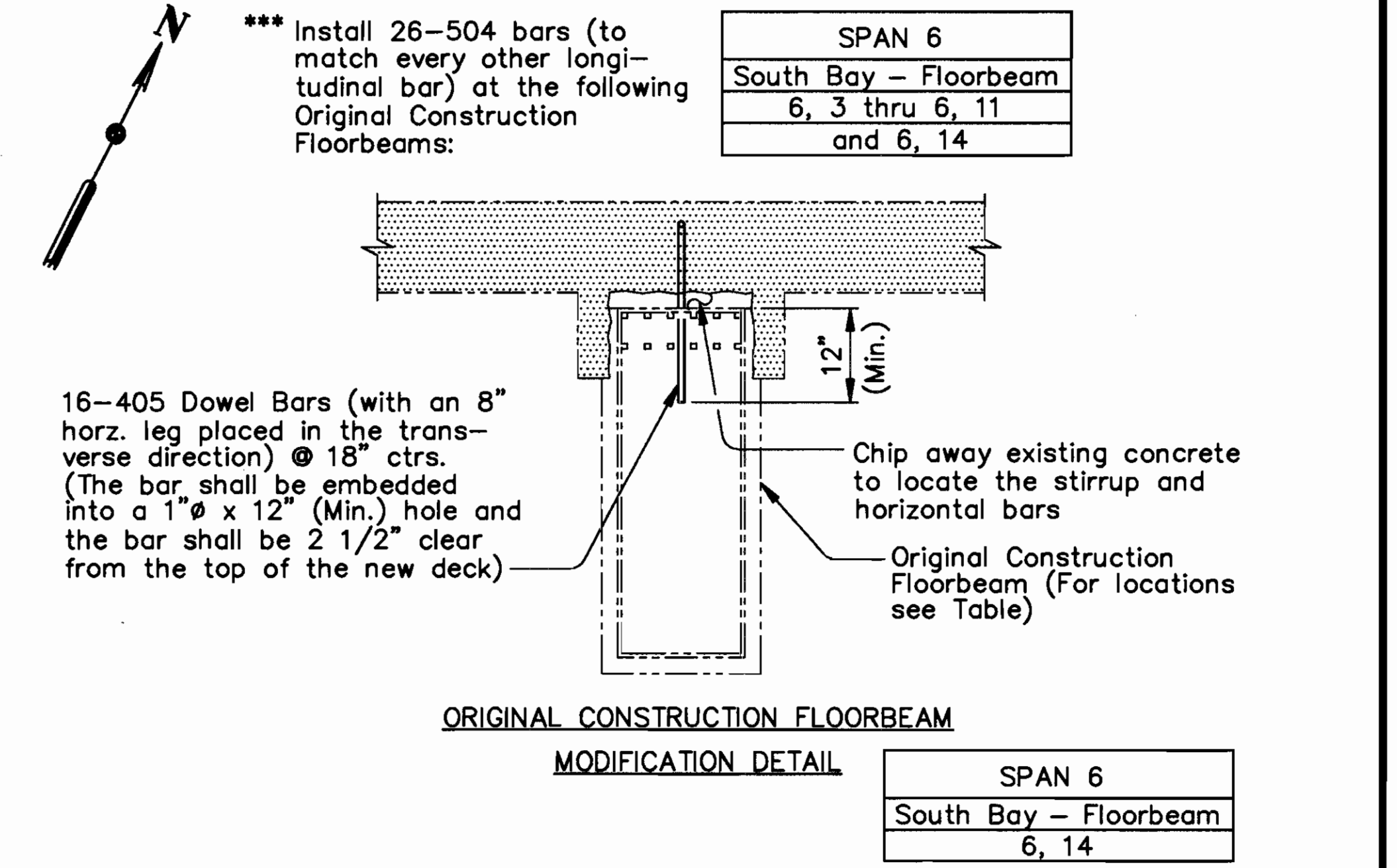
TYPICAL LONGITUDINAL SECTION
 (Transverse Reinforcement in Floorbeams not shown)

Location of Floorbeam types are arbitrarily shown and may not represent actual locations.



PLAN
 (Railing not shown)

Var. (From Pier 5 to Sta. 119+63.07)
 0" (From Sta. 119+63.07 to Pier 6)



MODIFICATION DETAIL

*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 6
South Bay - Floorbeam
6, 3 thru 6, 11
and 6, 14

16-405 Dowel Bars (with an 8" horz. leg placed in the transverse direction) @ 18" ctrs. (The bar shall be embedded into a 1" ϕ x 12" (Min.) hole and the bar shall be 2 1/2" clear from the top of the new deck)

Legend
 Indicates Deck Removal

Notes:
 For Member Identification and Removal Plan, see Sheet 23/270.
 For Floorbeam Removal Details, see Sheet 50/270.
 For Floorbeam Details, see Sheet 118/270.
 For Scupper Detail, see Sheet 195/270.
 For O.B.T. Support Details, see Sheet 233/270.
 For Light Standard Support Details, see Sheet 222/270.

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 6	6UES

COUNTY BRIDGE NO. 84

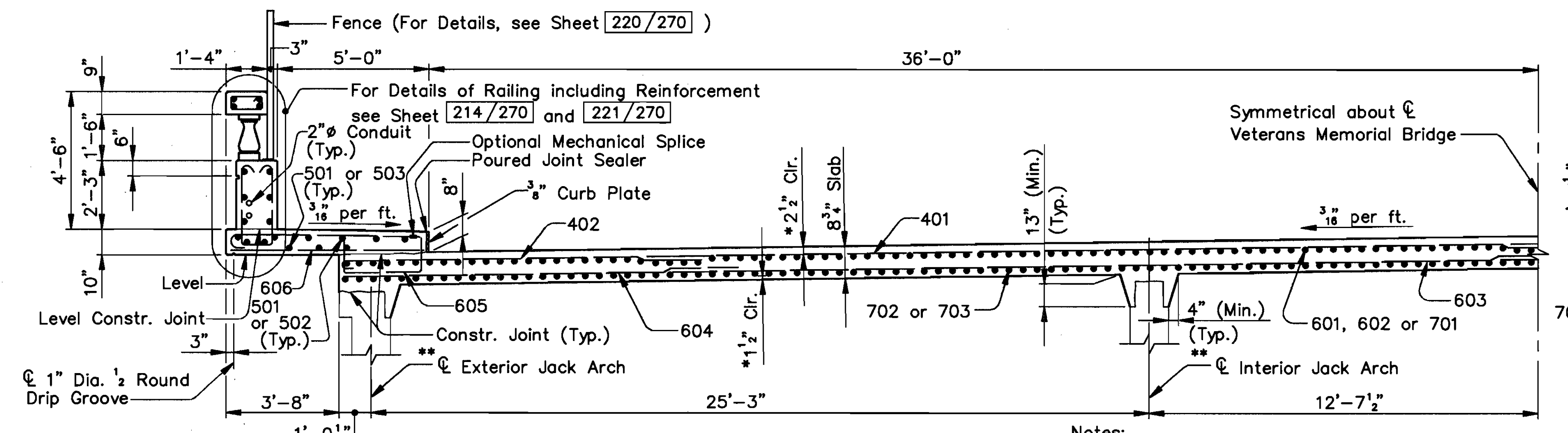
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

UPPER DECK PLAN
 SPAN 6
 BR. NO. CUY - 6 - 1499
 REHABILITATION OF
 VETERANS MEMORIAL BRIDGE
 (U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
 CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
R.S.Y./J.L.V.	W.E.B./J.L.V.	J.L.V./R.S.Y.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
2/24/94	2/24/94	2/25/94	4/07/94	

SHEET 201/270

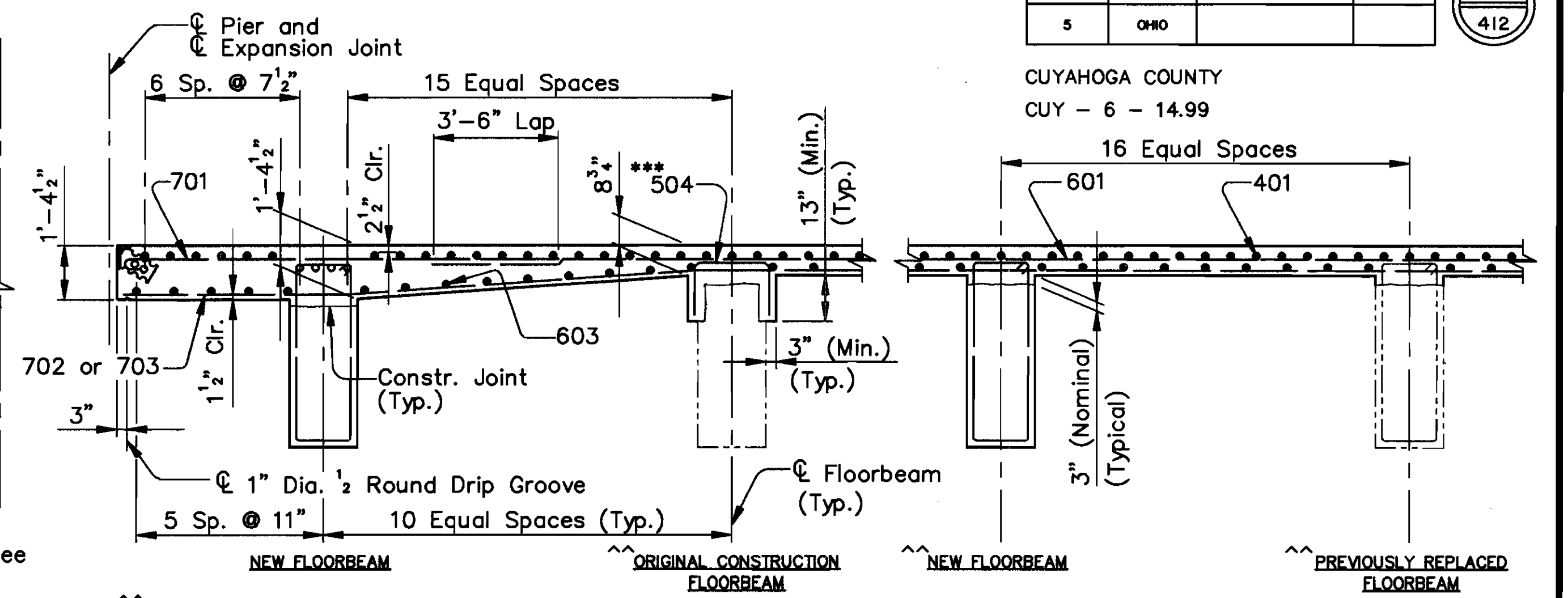
\\11646\CONCRETE\SPAN6.DWG



TYPICAL CROSS SECTION

Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.

For additional notes, see Sheet 195/270.



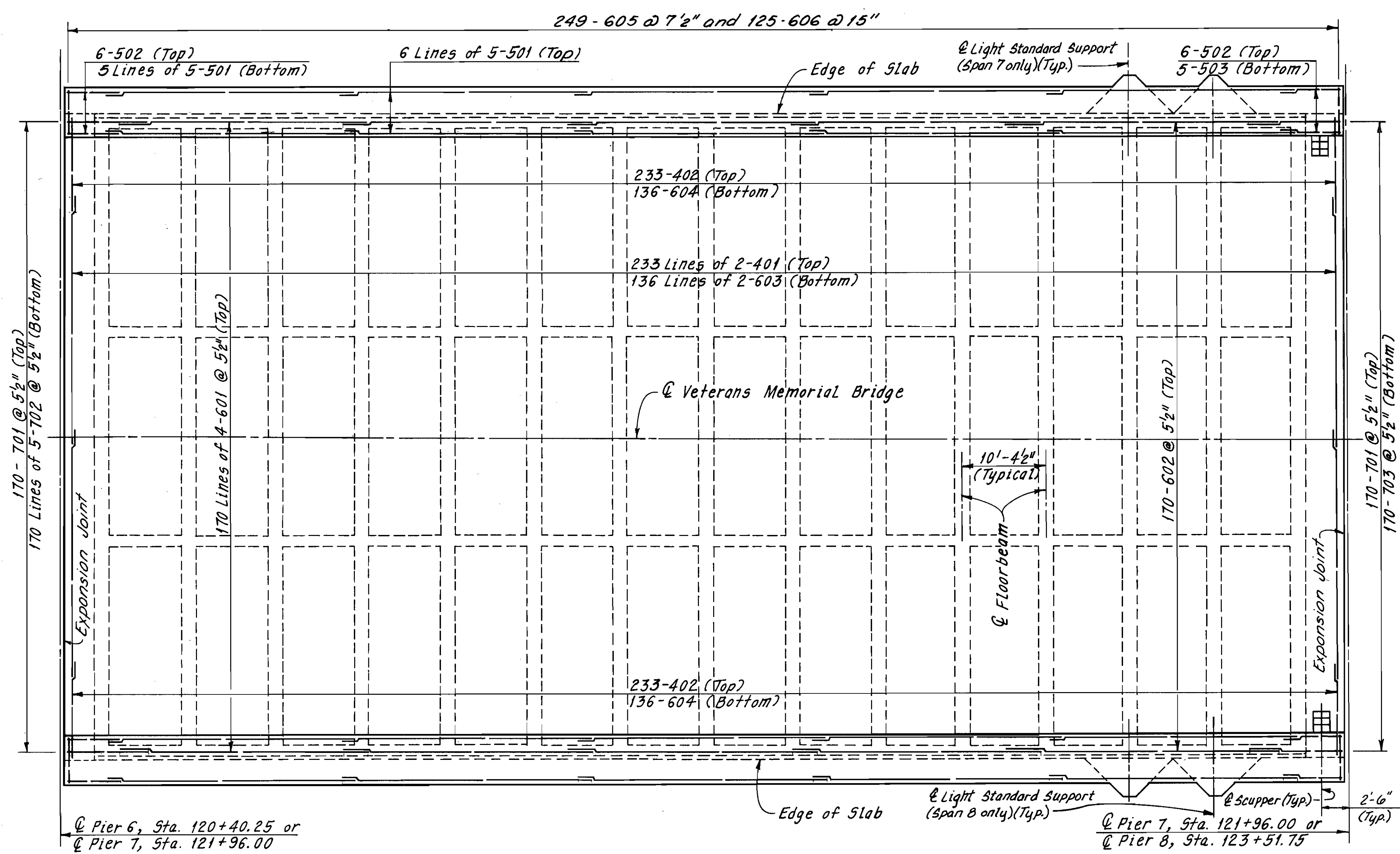
TYPICAL LONGITUDINAL SECTION
(Transverse Reinforcement in Floorbeams not shown)

Location of Floorbeam types are arbitrarily shown and may not represent actual locations.

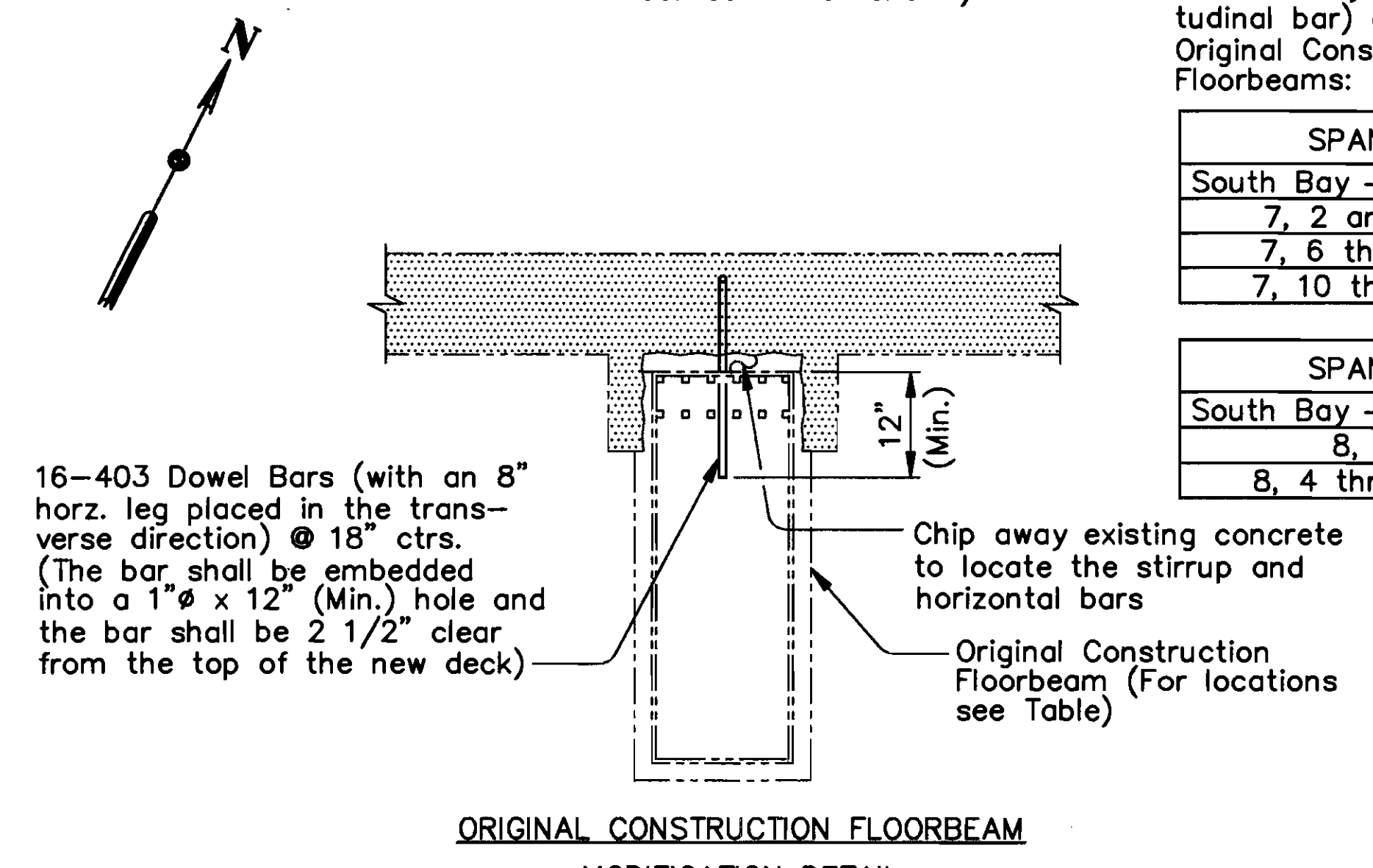
*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 7
South Bay - Floorbeam
7, 2 and 7, 3
7, 6 thru 7, 8
7, 10 thru 7, 13

SPAN 8
South Bay - Floorbeam
8, 2
8, 4 thru 8, 14



PLAN
(Railing not shown)



ORIGINAL CONSTRUCTION FLOORBEAM
MODIFICATION DETAIL

SPAN 7	SPAN 8
South Bay - Floorbeam	South Bay - Floorbeam
7, 2	8, 2 and 8, 14

Legend
Indicates Deck Removal

Notes:
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheet 118/270.
For Scupper Detail, see Sheet 195/270.
For Light Standard Support Details, see Sheet 222/270.

Note:
Field cut 402 and 604 bars as required to clear the scuppers.

BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 7	7UES
SPAN 8	8UES

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

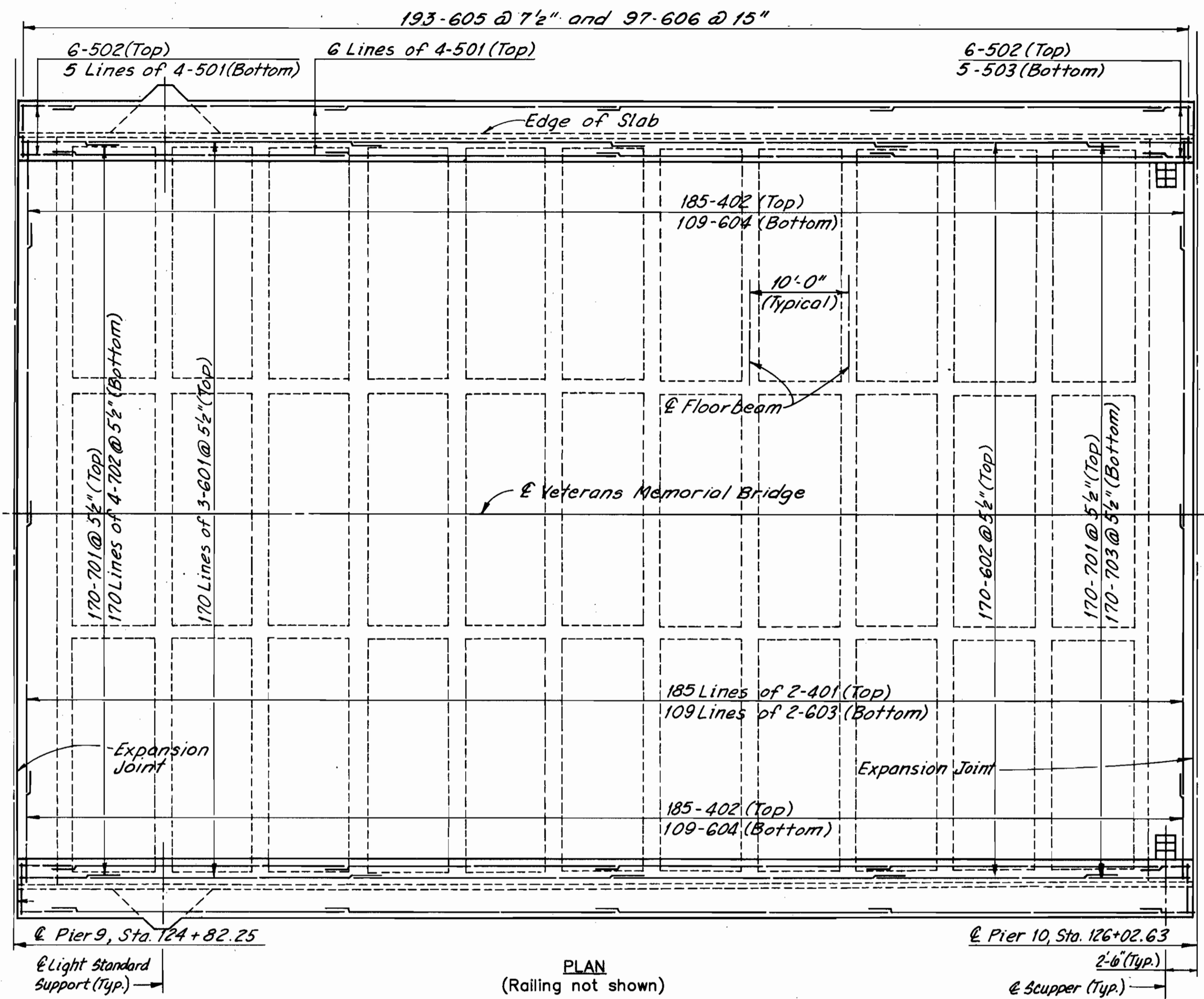
HNTB

UPPER DECK PLAN
SPANS 7 AND 8
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISION
R.S.Y./J.L.V.	W.E.B./J.L.V.	J.L.V./R.S.Y.	C.A.B.	
DATE	DATE	DATE	DATE	
2/24/94	2/24/94	2/25/94	4/07/94	

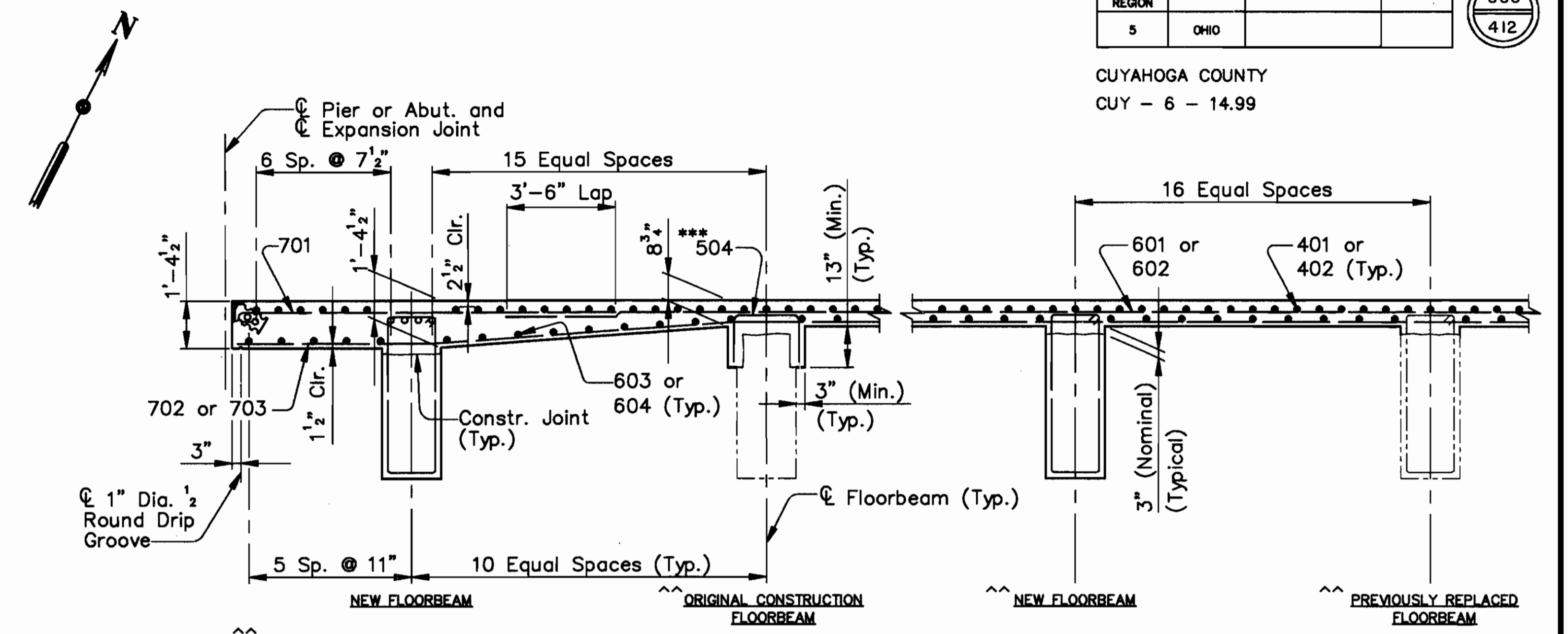
SHEET 202/270

CUYAHOGA COUNTY
CUY - 6 - 14.99



PLAN
(Railing not shown)

Note:
Field cut 402 and 604 bars as required to clear the scuppers.



TYPICAL LONGITUDINAL SECTION
(Transverse Reinf. in Floorbeams not shown)

*** Install 26-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

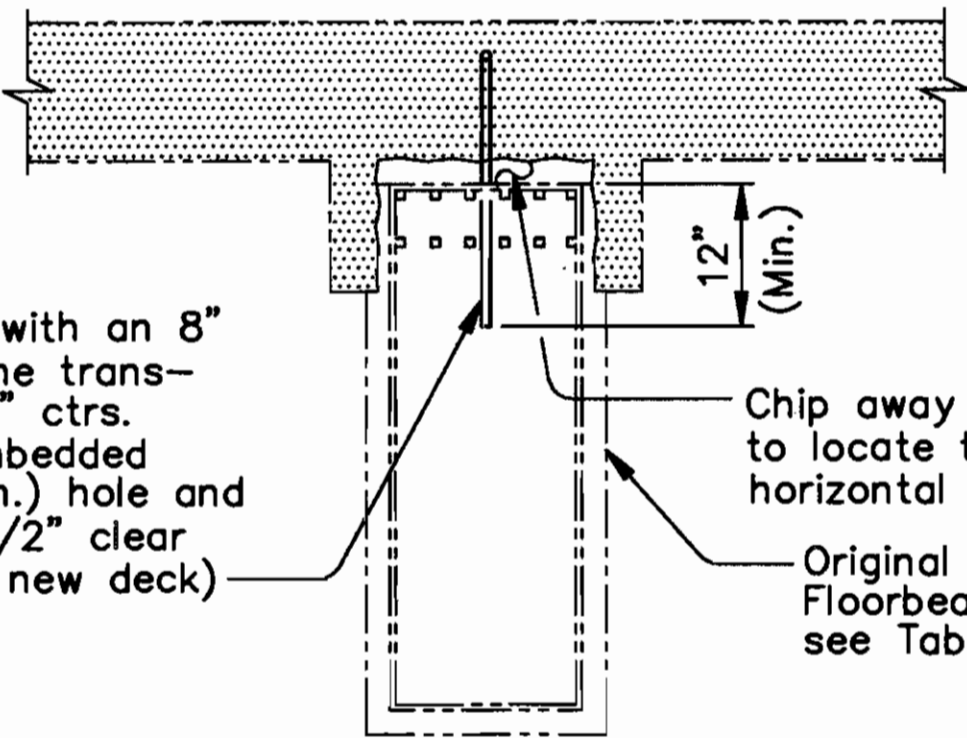
SPAN 10
South Bay - Floorbeam
10, 2 thru 10, 11

16-403 Dowel Bars (with an 8" horz. leg placed in the transverse direction) @ 18" ctrs. (The bar shall be embedded into a 1" x 12" (Min.) hole and the bar shall be 2 1/2" clear from the top of the new deck)

Chip away existing concrete to locate the stirrup and horizontal bars

Original Construction Floorbeam (For locations see Table)

12" (Min.)



ORIGINAL CONSTRUCTION FLOORBEAM
MODIFICATION DETAIL

SPAN 10
South Bay - Floorbeam
10, 2 and 10, 11

Legend
Indicates Deck Removal

Notes:
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheet 117/270.
For Scupper Detail, see Sheet 195/270.
For Light Support Details, see Sheet 222/270.

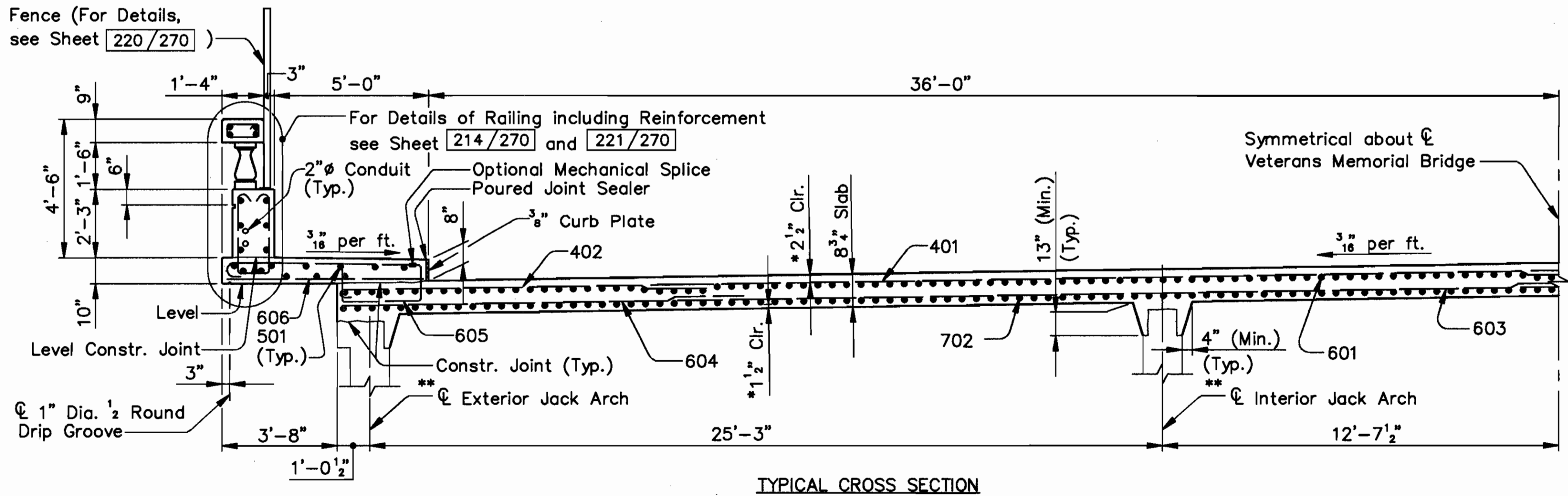
COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

UPPER DECK PLAN
SPAN 10
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN R.S.Y./J.L.V.	TRACED R.S.Y./J.L.V.	CHECKED J.L.V./R.S.Y.	REVIEWED C.A.B.
DATE 2/23/94	DATE 2/23/94	DATE 2/24/94	DATE 4/07/94

SHEET 203/270



TYPICAL CROSS SECTION

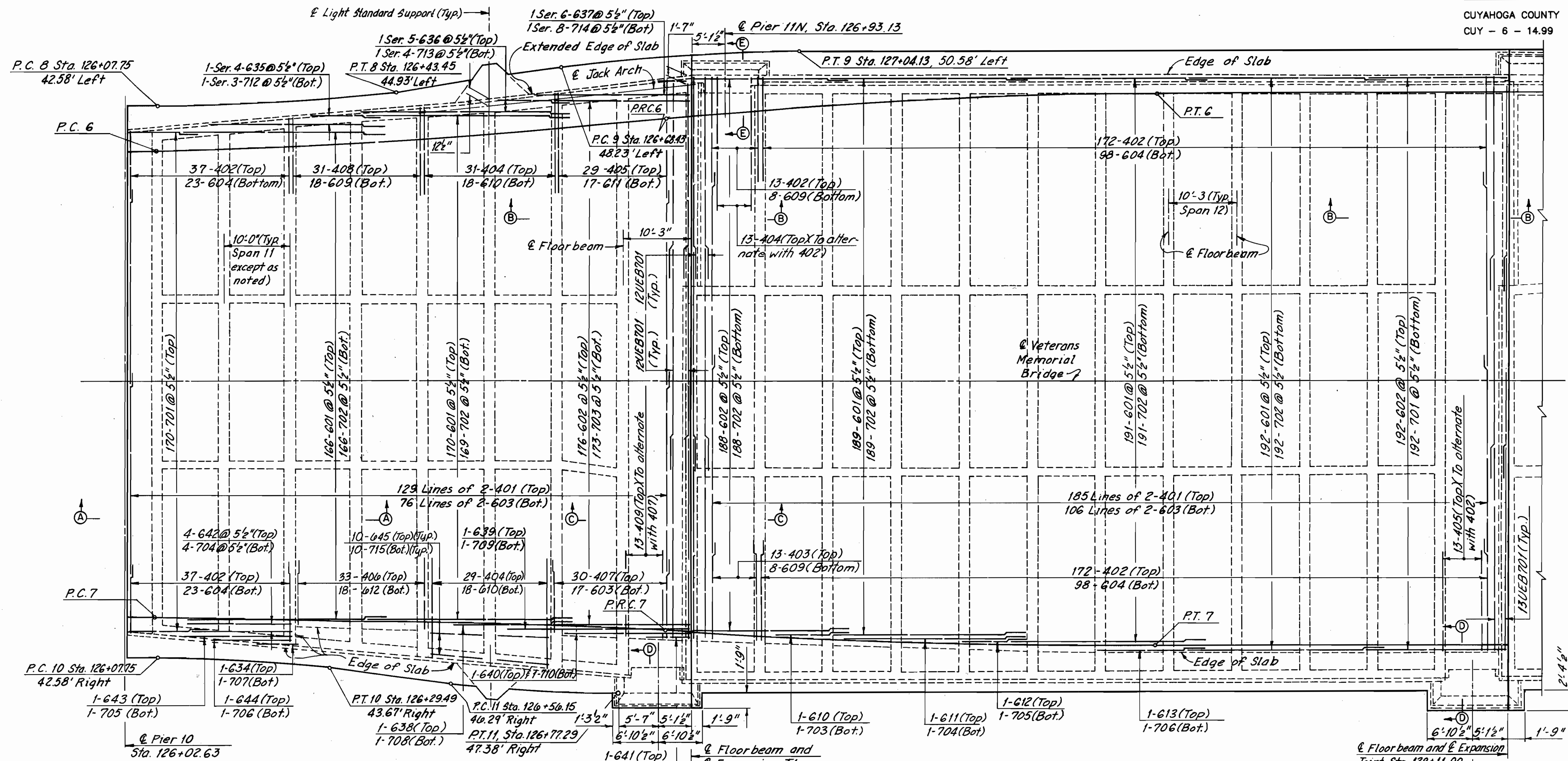
Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.
For additional notes, see Sheet 195/270.

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 10	- 10UES

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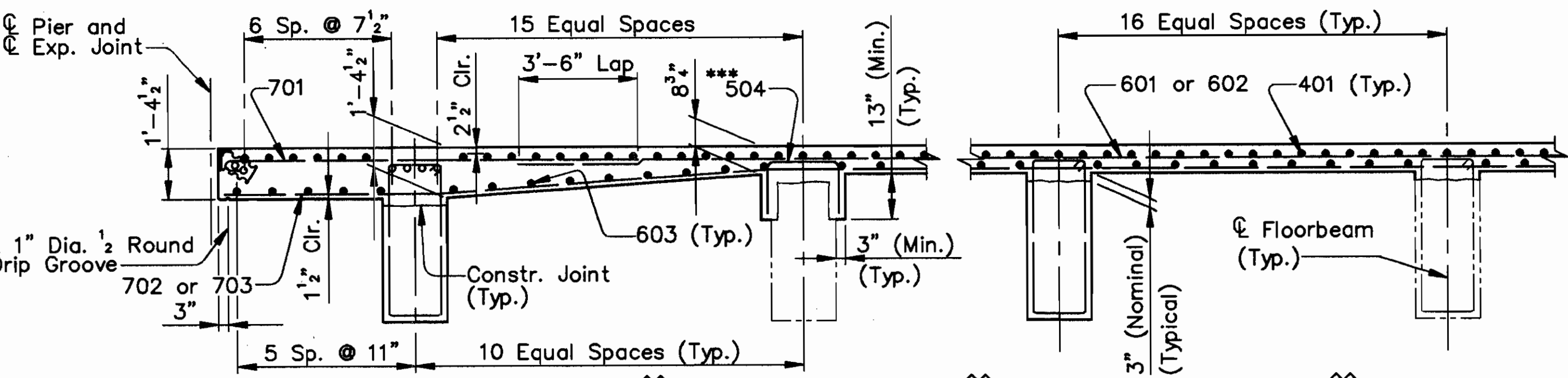


Note:
Remove South Exterior Jack Arch as required to place Deck Slab Extension for Light Standard Support.

PLAN - SPAN 11
(Railing not shown)

PLAN - SPAN 12
(Railing not shown)

Notes:
For Typical Cross Section, see Sheet 206/270.
For Suggested Construction Sequence, see Sheet 120/270.
For Sidewalk Details, see Sheet 206/270.
For Sections B-B thru E-E, see Sheet 205/270.
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Removal Details, see Sheet 50/270.
For Floorbeam Details, see Sheets 117/270 and 120/270.
For Light Standard Support Details, see Sheet 222/270.



SECTION A-A
(Transverse Reinforcement in Floorbeams not shown)

*** Install 1-504 bar to match every other longitudinal bar at the following Original Construction Floorbeams:

SPAN 11	
North Bay - Floorbeam	11, 3 and 11, 7
South Bay - Floorbeam	11, 2 thru 11, 8

SPAN 12	
North Bay - Floorbeam	12, 2 thru 12, 12
South Bay - Floorbeam	12, 2 thru 12, 12

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 11	11UES
SPAN 12	12UES

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

COUNTY BRIDGE NO. 84

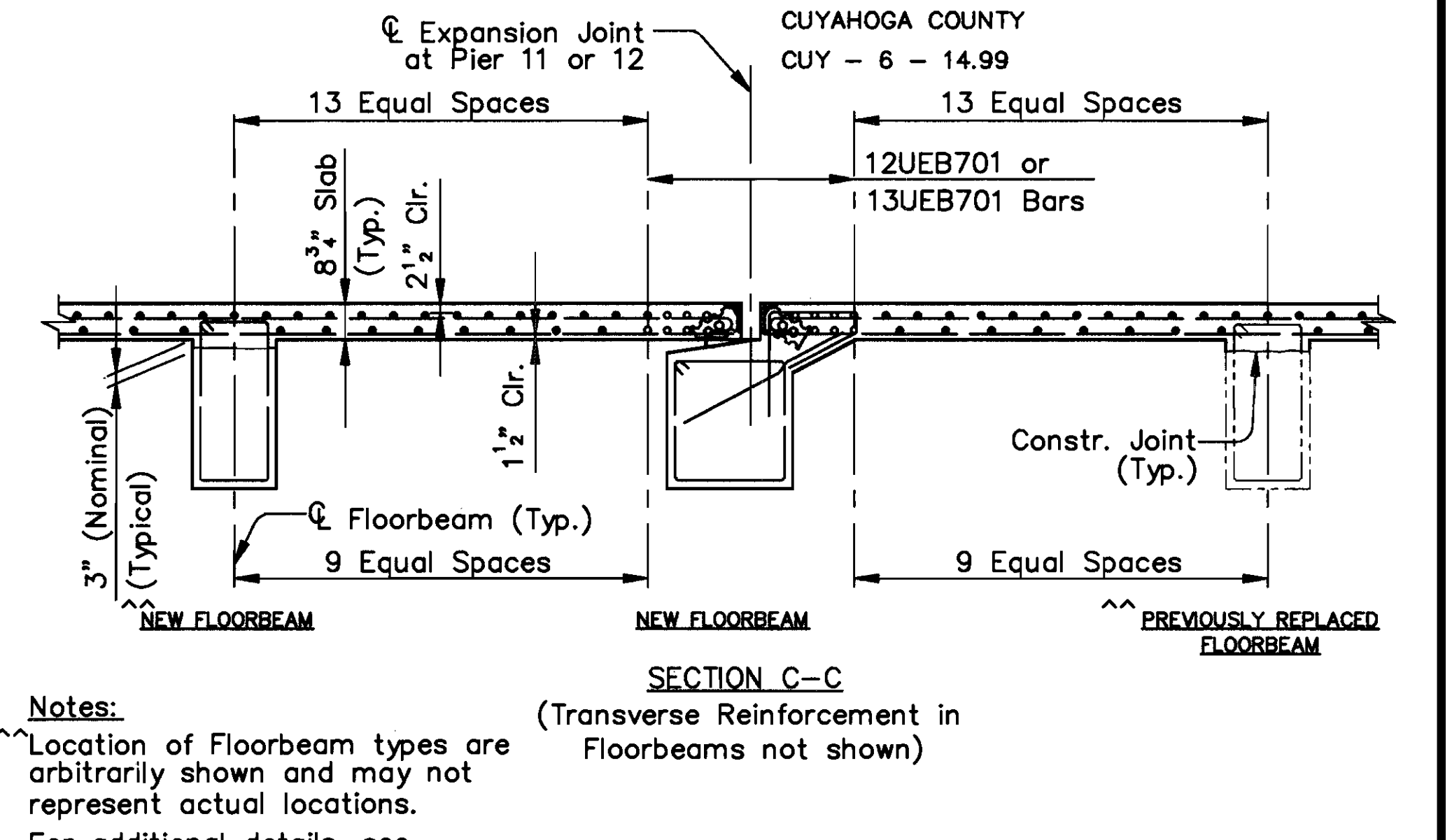
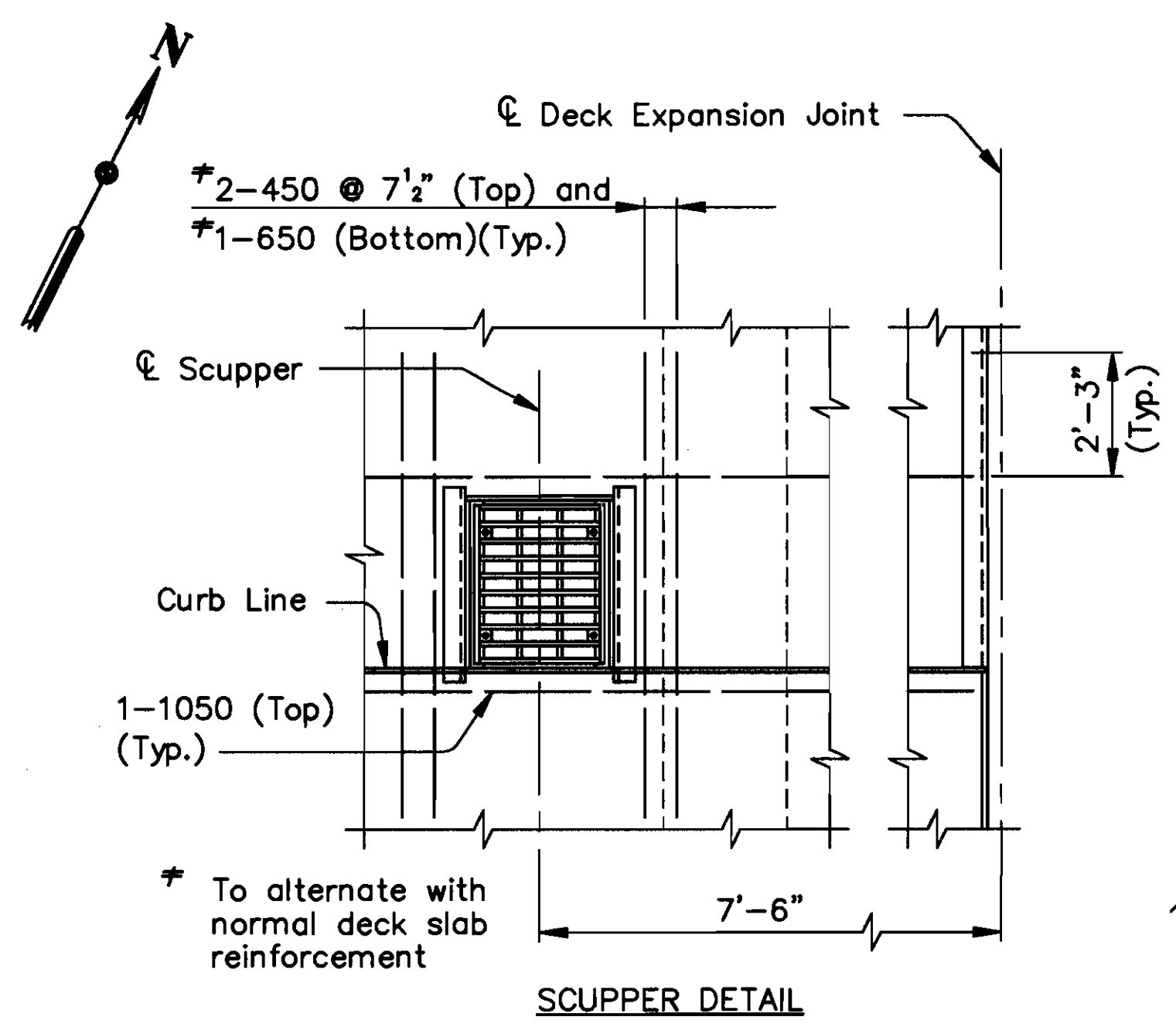
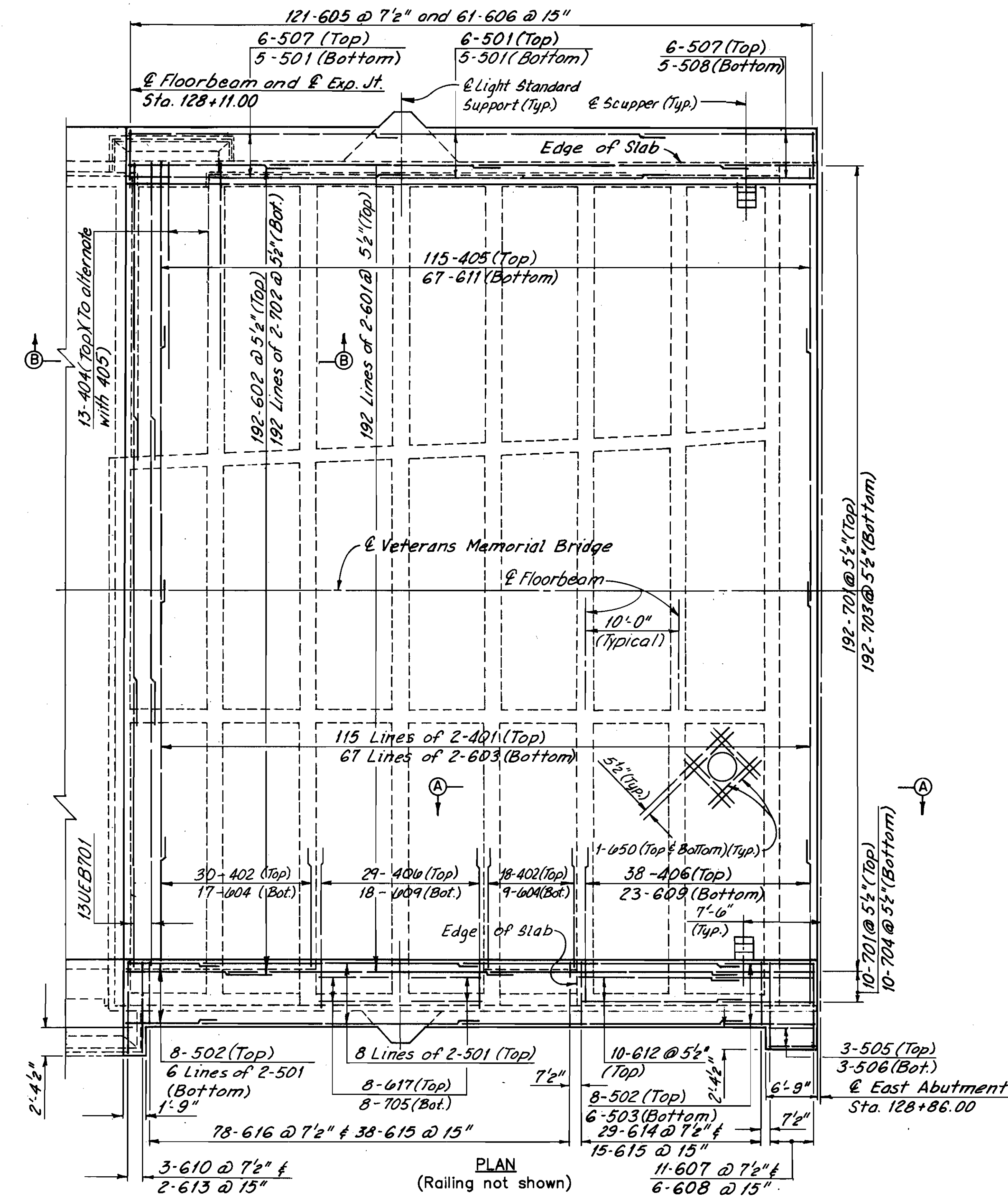
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS



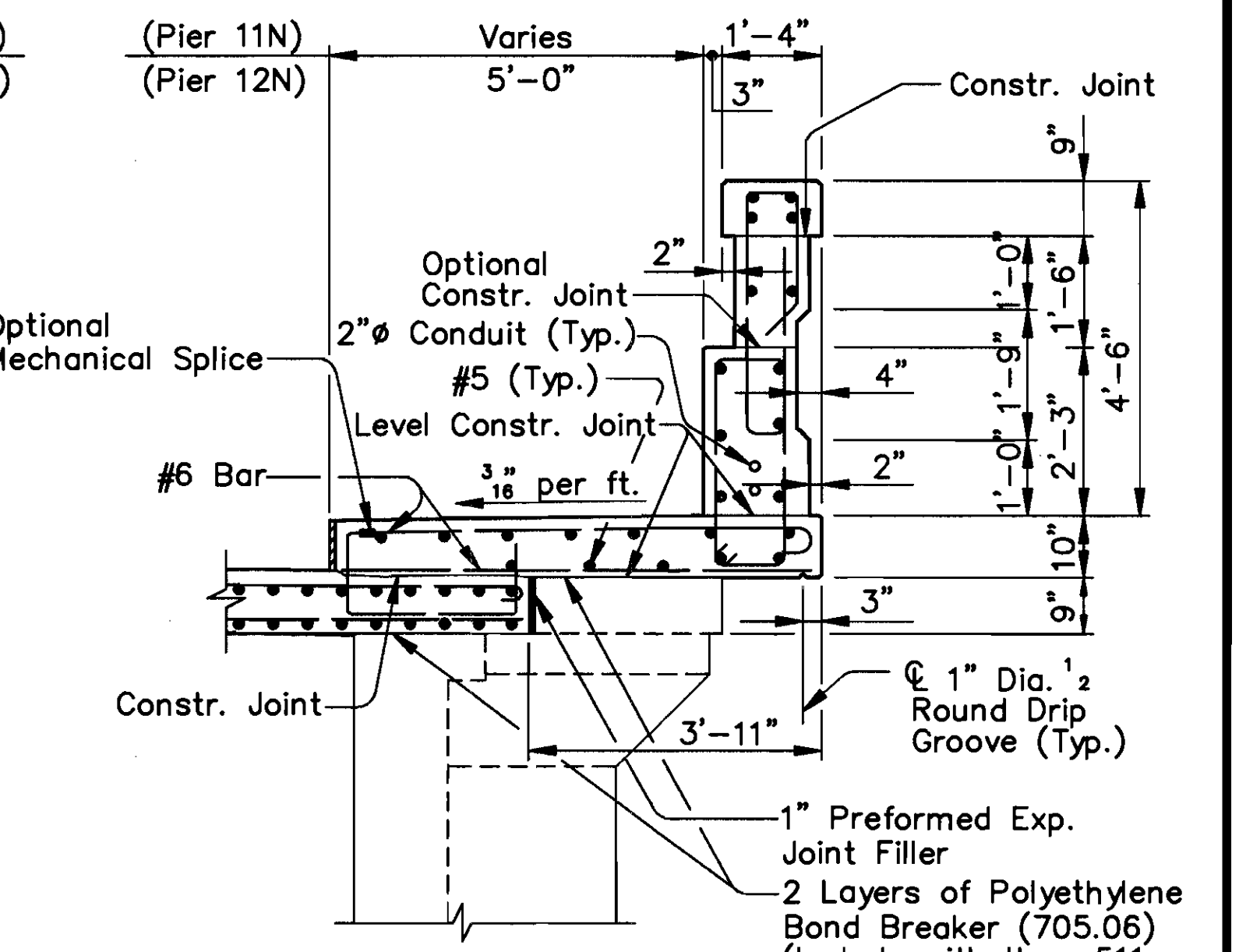
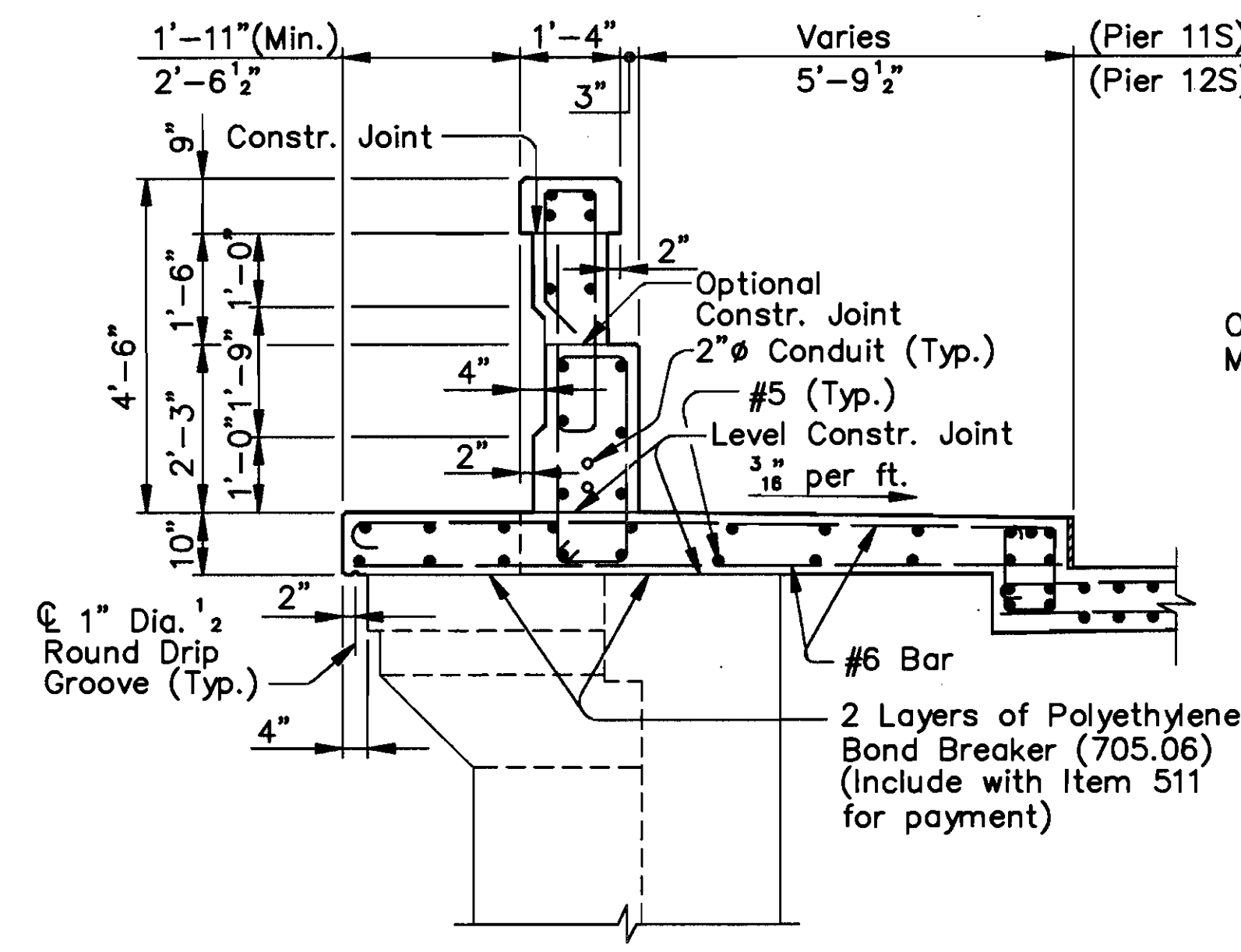
UPPER DECK PLAN
SPANS 11 AND 12
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED	REVISED
R.S.Y./J.L.V.	W.E.B./J.L.V.	J.L.V./R.S.Y.	C.A.B.	
DATE	DATE	DATE	DATE	DATE
3/16/94	3/16/94	3/17/94	4/07/94	

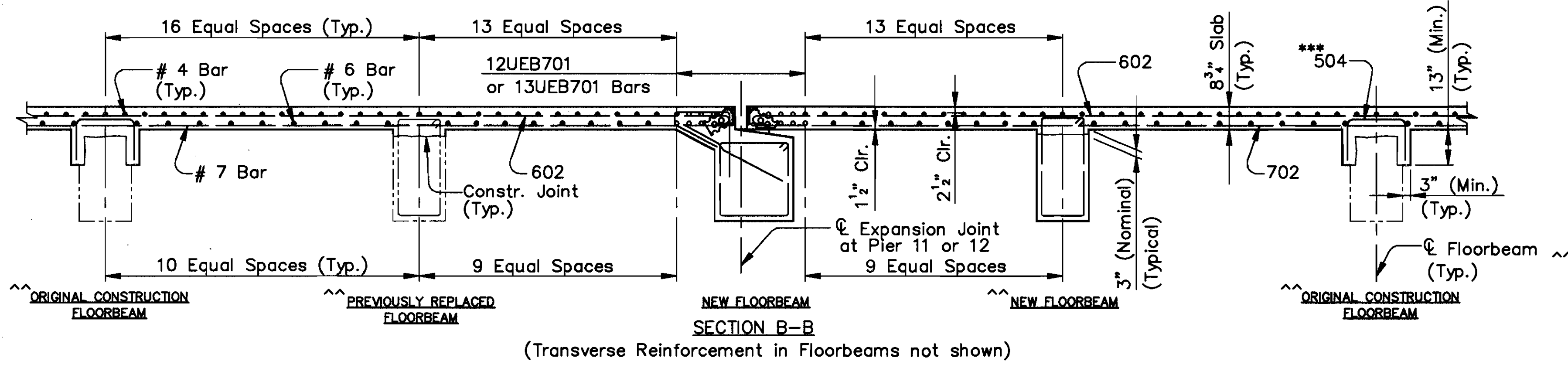
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Notes:
Location of Floorbeam types are arbitrarily shown and may not represent actual locations.
For additional details, see Section A-A, Sheet 204/270.



Notes:
Remove South Exterior Jack Arch as required to place Deck Slab Extension at the Light Standard Support and at the East Abutment.
Field cut 405, 406, 609, 611, 701 and 703 bars as required to clear the scuppers.
Field cut 401, 603, 701, and 703 bars as required to clear the O.B.T. Manhole.



*** Install 21-504 bars (to match every other longitudinal bar) at the following Original Construction Floorbeams:

SPAN 13	
North Bay - Floorbeam	13, 4 thru 13, 7
South Bay - Floorbeam	13, 5 thru 13, 7

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

(Typical except as shown in Details)

ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:	
SPAN 11	- 11UES
SPAN 12	- 12UES
SPAN 13	- 13UES

Location of Floorbeam types are arbitrarily shown and may not represent actual locations.

Note:
For O.B.T. Support Details, see Sheet 233/270.
For Light Standard Support Details, see Sheet 222/270.

Notes:
For Suggested Construction Sequence, see Sheet 120/270.
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Details, see Sheets 117/270 and 120/270.

COUNTY BRIDGE NO. 84

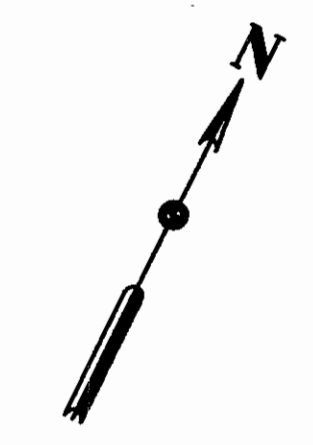
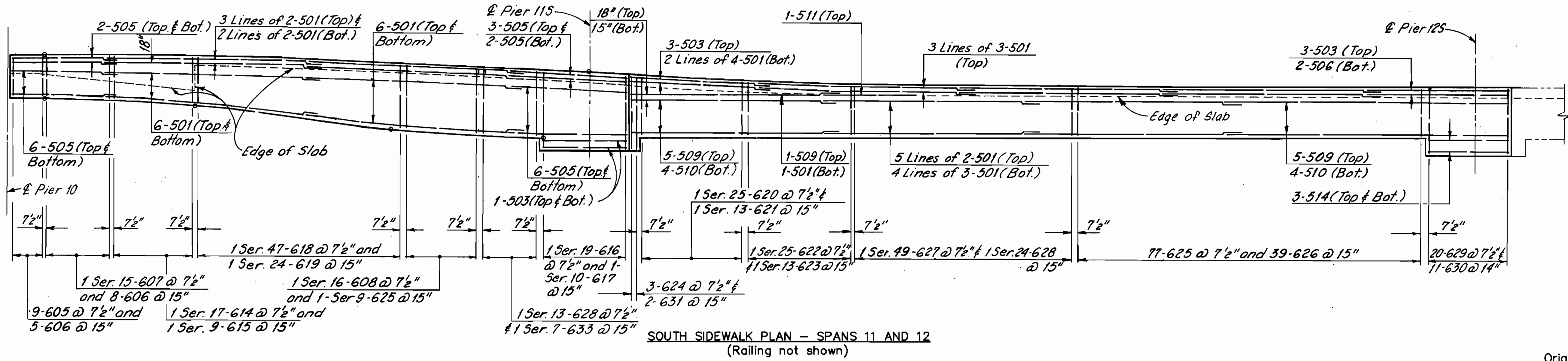
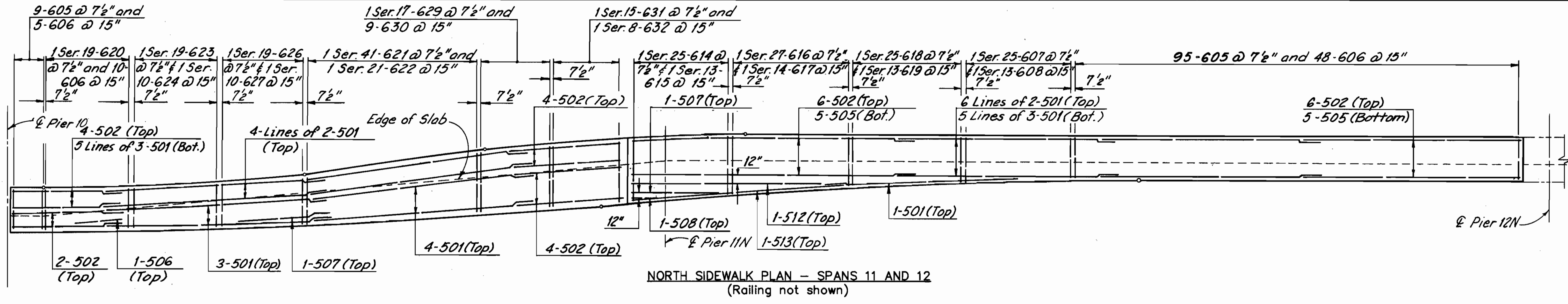
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

UPPER DECK PLAN
SPAN 13
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

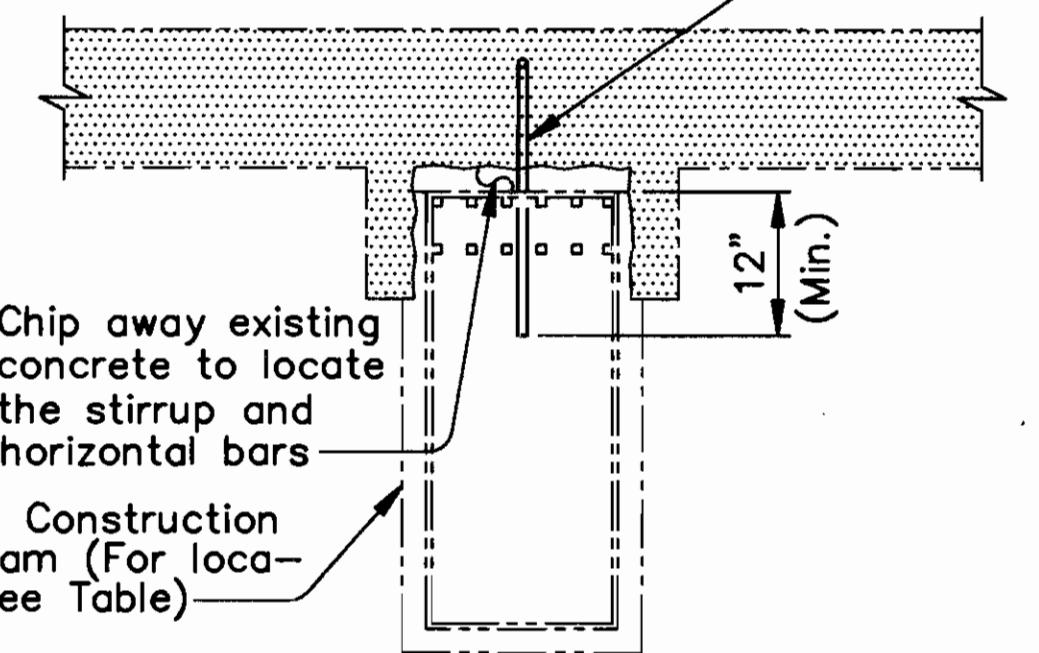
DRAWN R.S.Y./J.L.V.	TRACED W.E.B./J.L.V.	CHECKED J.L.V./R.S.Y.	REVIEWED C.A.B.	REVISED
DATE 3/02/94	DATE 3/02/94	DATE 3/03/94	DATE 4/07/94	

SHEET 205/270

CUYAHOGA COUNTY
CUY - 6 - 14.99



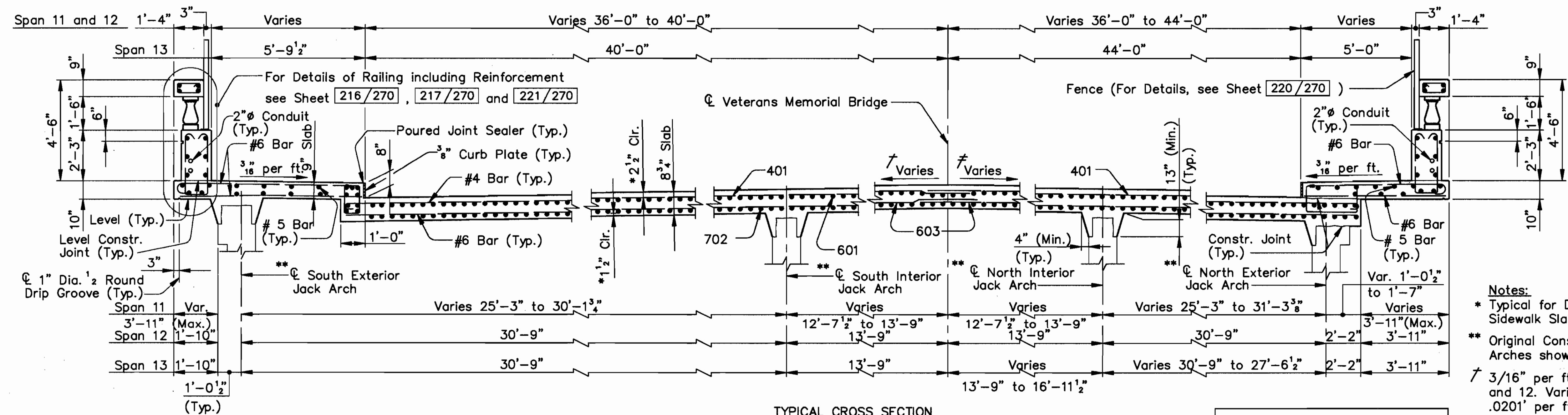
Place 403 Dowel Bars (with an 8" horz. leg placed in the transverse direction) @ 18" ctrs. (The bar shall be embedded into a 1" x 12" (Min.) hole and the bar shall be 2 1/2" clear from the top of the new deck)



SPAN 11 South Bay - Floorbeam 11, 2	SPAN 13 North Bay - Floorbeam 13, 7
	South Bay - Floorbeam 13, 7

Legend
Indicates Deck Removal [hatched pattern]

Notes:
For Suggested Construction Sequence, see Sheet 120/270.
For Member Identification and Removal Plan, see Sheet 23/270.
For Floorbeam Details, see Sheets 117/270 and 120/270.



ALL REINFORCING BAR MARKS SHALL BE PREFIXED AS FOLLOWS:

SPAN 11	-	11UES
SPAN 12	-	12UES
SPAN 13	-	13UES

MINIMUM SPLICE LENGTH

BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

Notes:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.
† 3/16" per ft. Spans 11 and 12. Varies 3/16" to .0201' per ft. Span 13.
‡ 3/16" per ft. Spans 11 and 12. Varies 3/16" to .0112' per ft. Span 13.
For additional notes, see Sheet 204/270.

COUNTY BRIDGE NO. 84

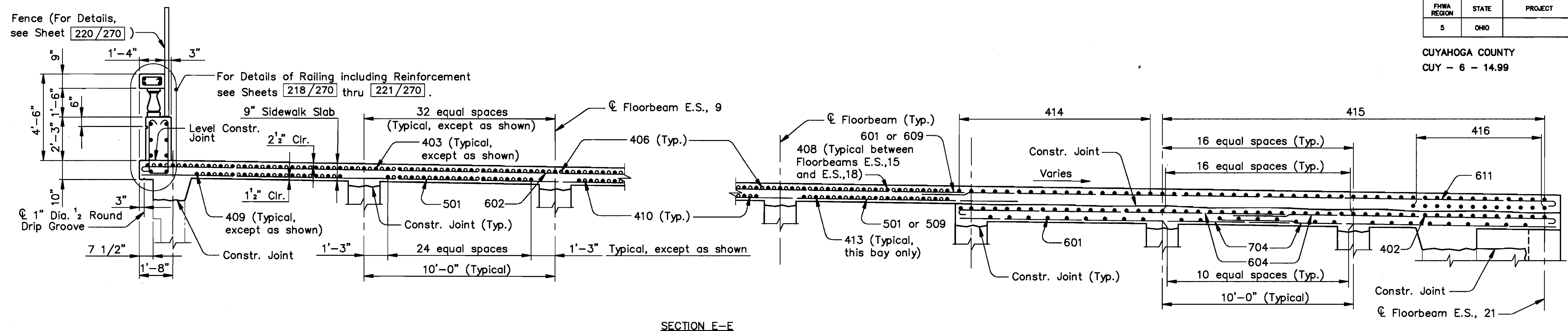
HOWARD NEEDLES TAMMEN & BERGENDOFF ARCHITECTS ENGINEERS PLANNERS **HNTB**

UPPER DECK DETAILS
SPANS 11, 12 and 13
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

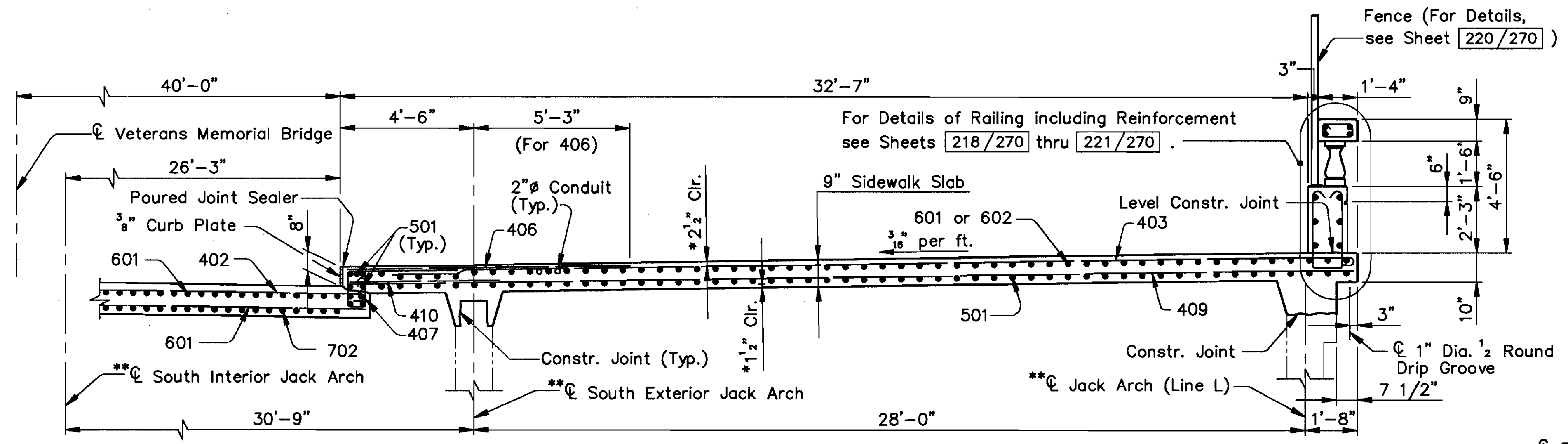
DRAWN R.S.Y./J.L.V.	TRACED W.E.B./J.L.V.	CHECKED J.L.V./R.S.Y.	REVIEWED C.A.B.
DATE 3/16/94	DATE 3/16/94	DATE 3/17/94	DATE 4/07/94

SHEET 206/270

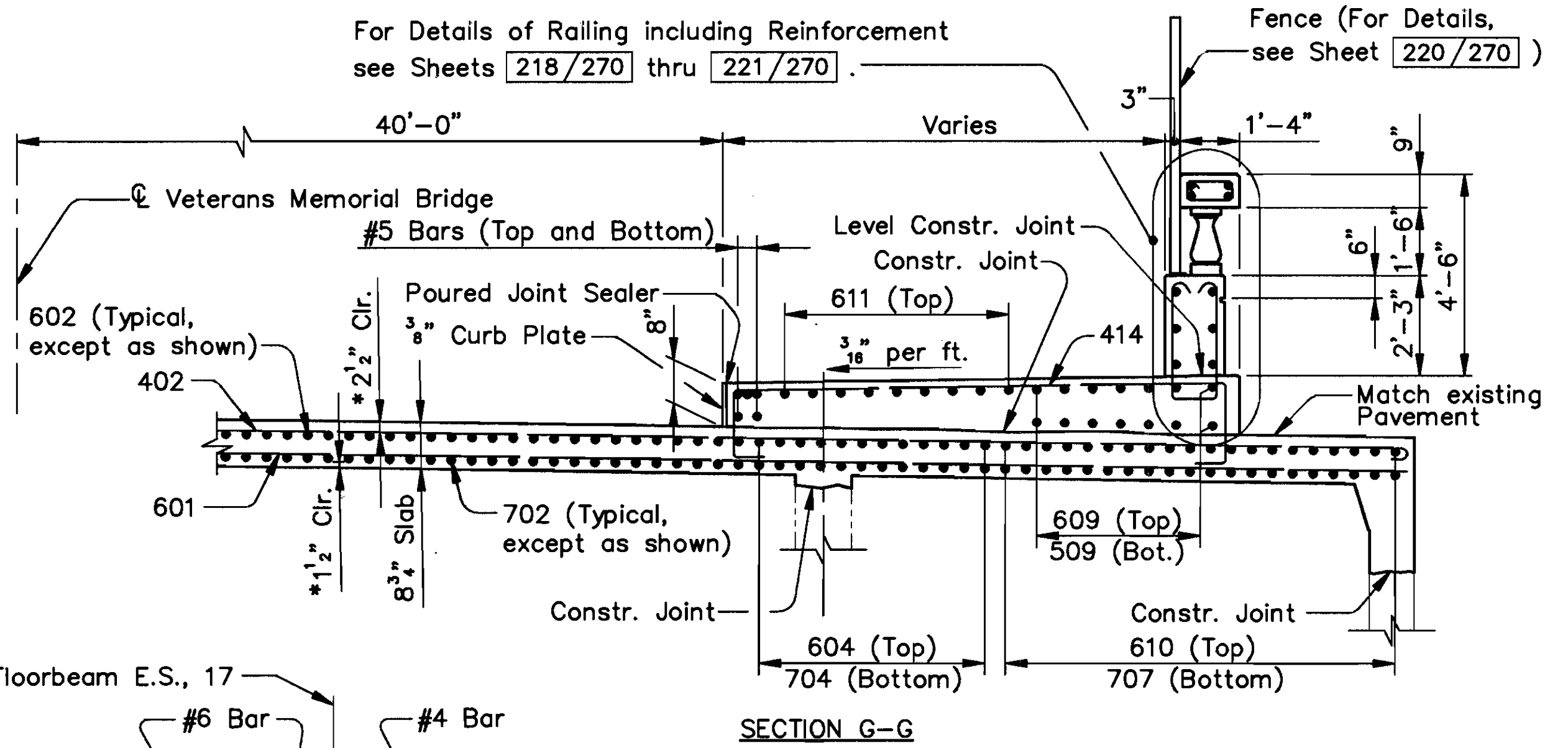
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SECTION E-E

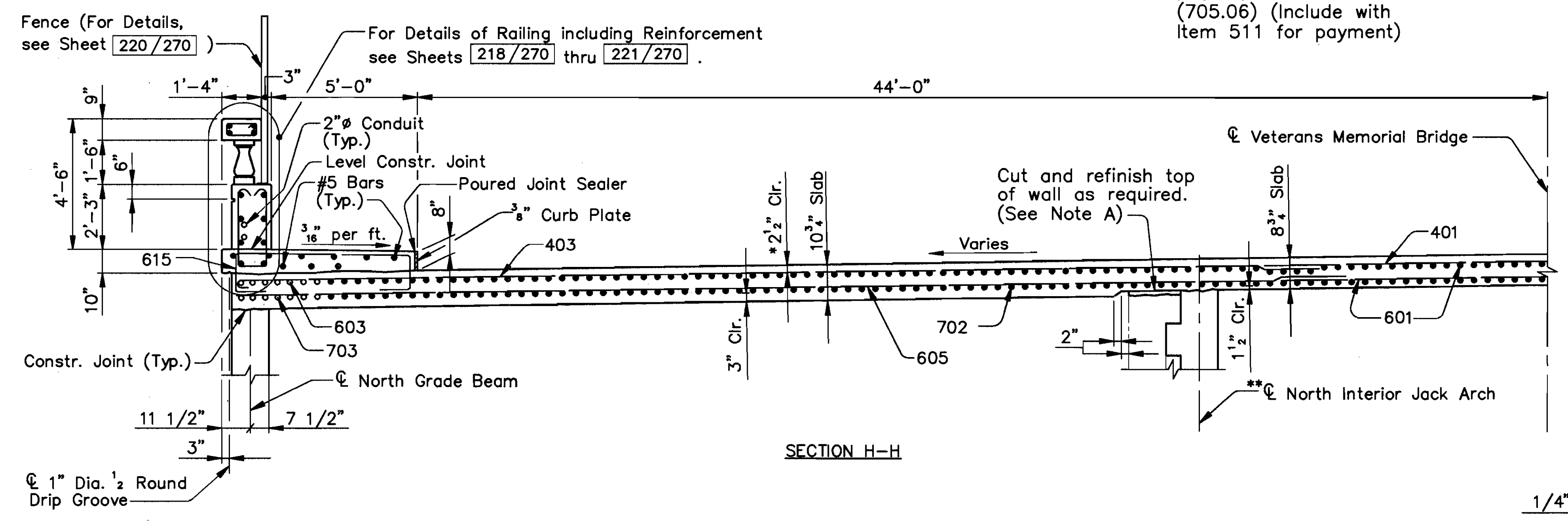


SECTION F-F

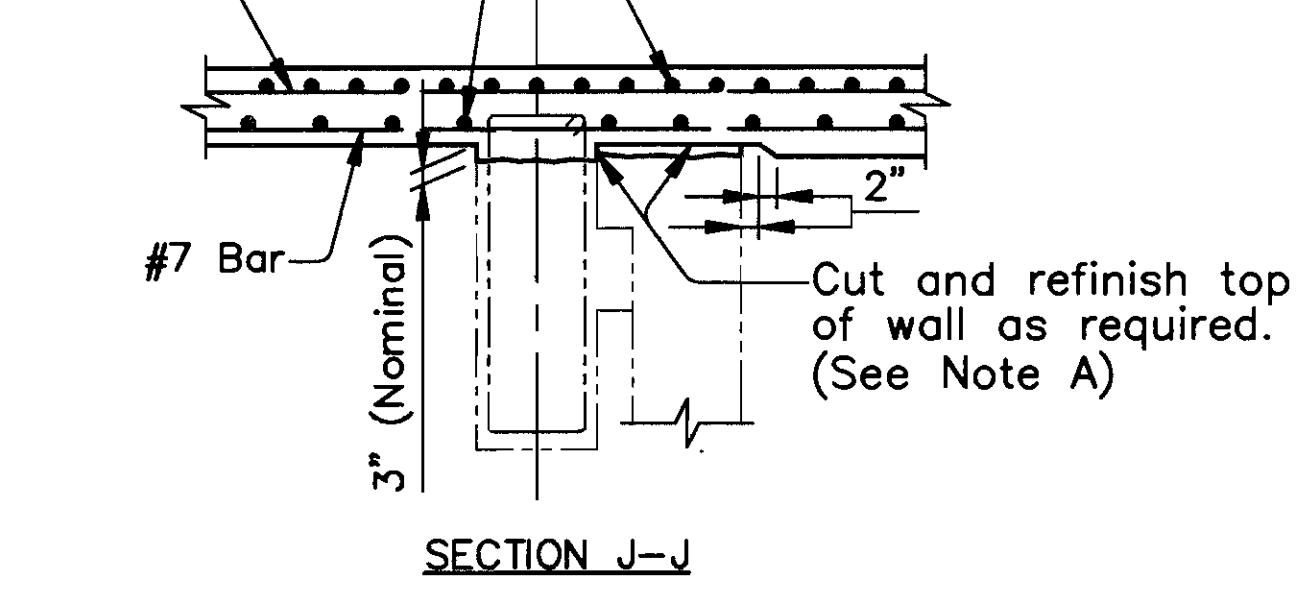


SECTION G-G

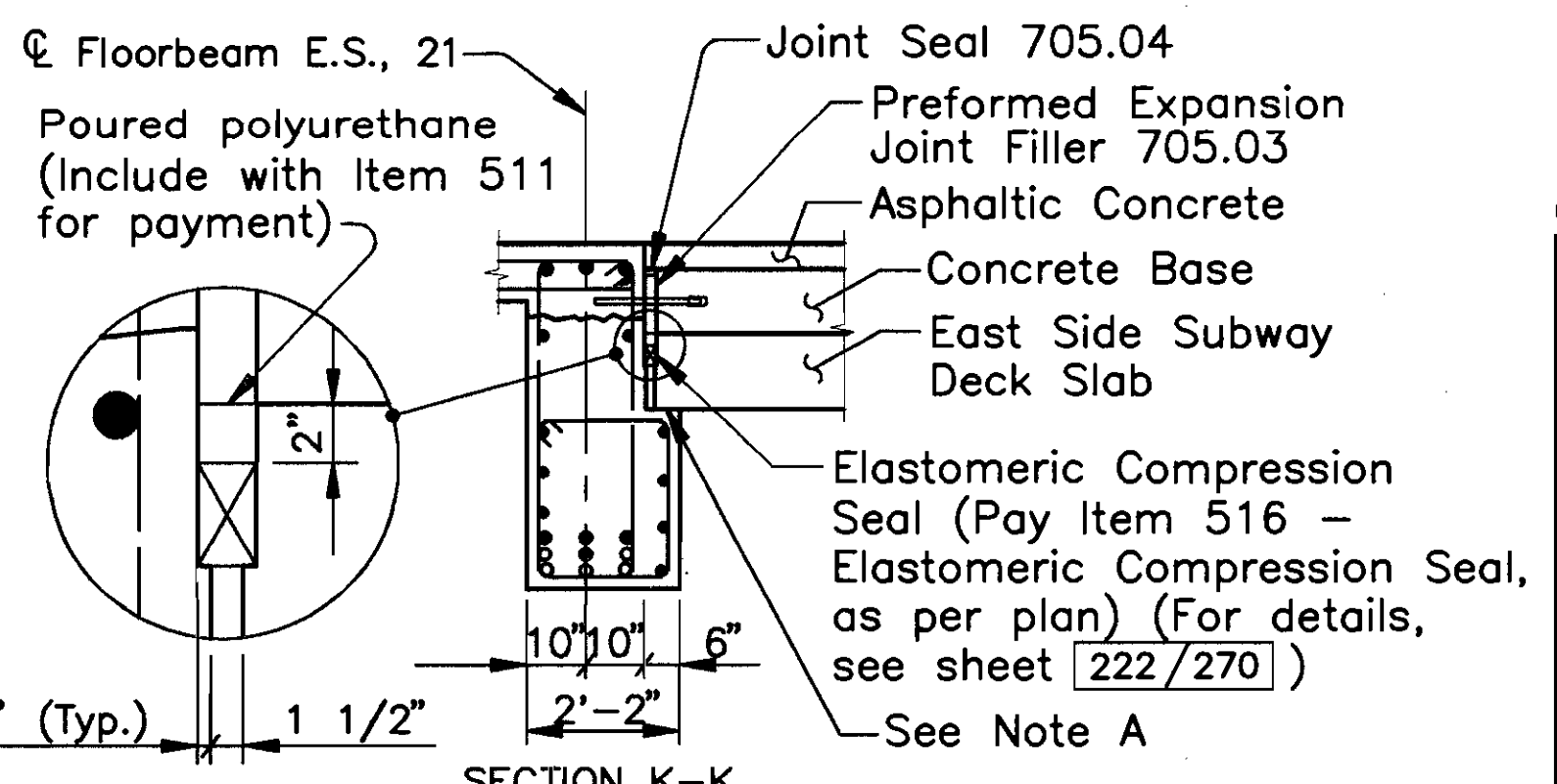
NOTE A:
Provide 2 layers of polyethylene bond breaker (705.06) (Include with Item 511 for payment)



SECTION H-H



SECTION J-J



SECTION K-K

NOTES:
* Typical for Deck and Sidewalk Slabs.
** Original Construction Jack Arches shown.
For additional notes, see Sheet 208/270.
For haunch dimensions, see Sheet 208/270.

MINIMUM SPLICE LENGTH	
BAR	LENGTH
# 4	1'-9"
# 5	2'-0"
# 6 (TRANSVERSE)	2'-5"
# 6 (LONGITUDINAL)	3'-0"
# 7	4'-8"

COUNTY BRIDGE NO. 84

HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

HNTB

DECK SLAB DETAILS
EAST SIDE STATION
BR. NO. CUY - 6 - 1499
REHABILITATION OF
VETERANS MEMORIAL BRIDGE
(U.S. 6, 20, 42 & S.R. 3 OVER CUYAHOGA RIVER)
CLEVELAND CUYAHOGA COUNTY OHIO

DRAWN	TRACED	CHECKED	REVIEWED
ADY	ADY	JLV	CAB
DATE	DATE	DATE	DATE
01/13/94	01/13/94	2/18/94	3/31/94

SHEET 209/270

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