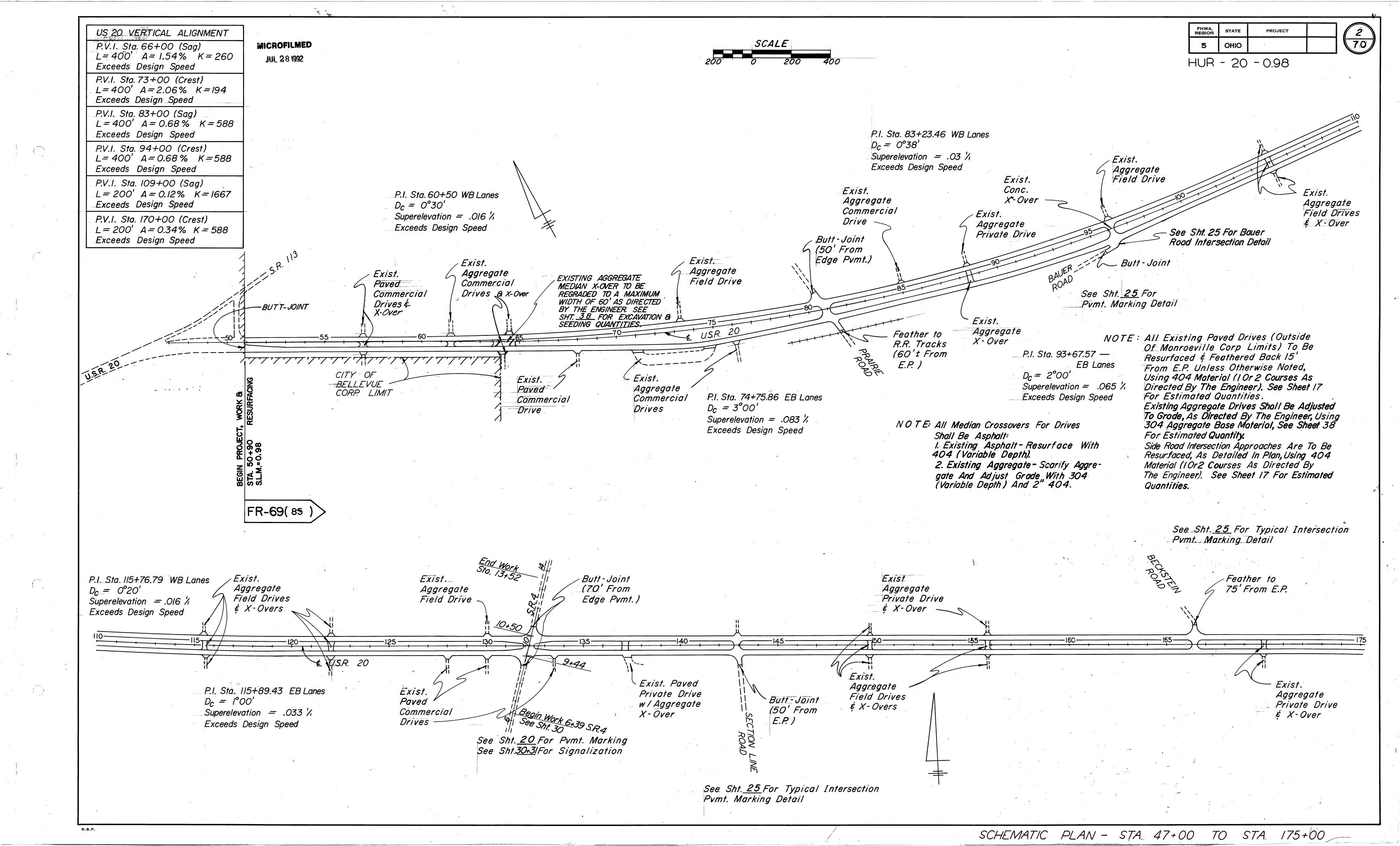
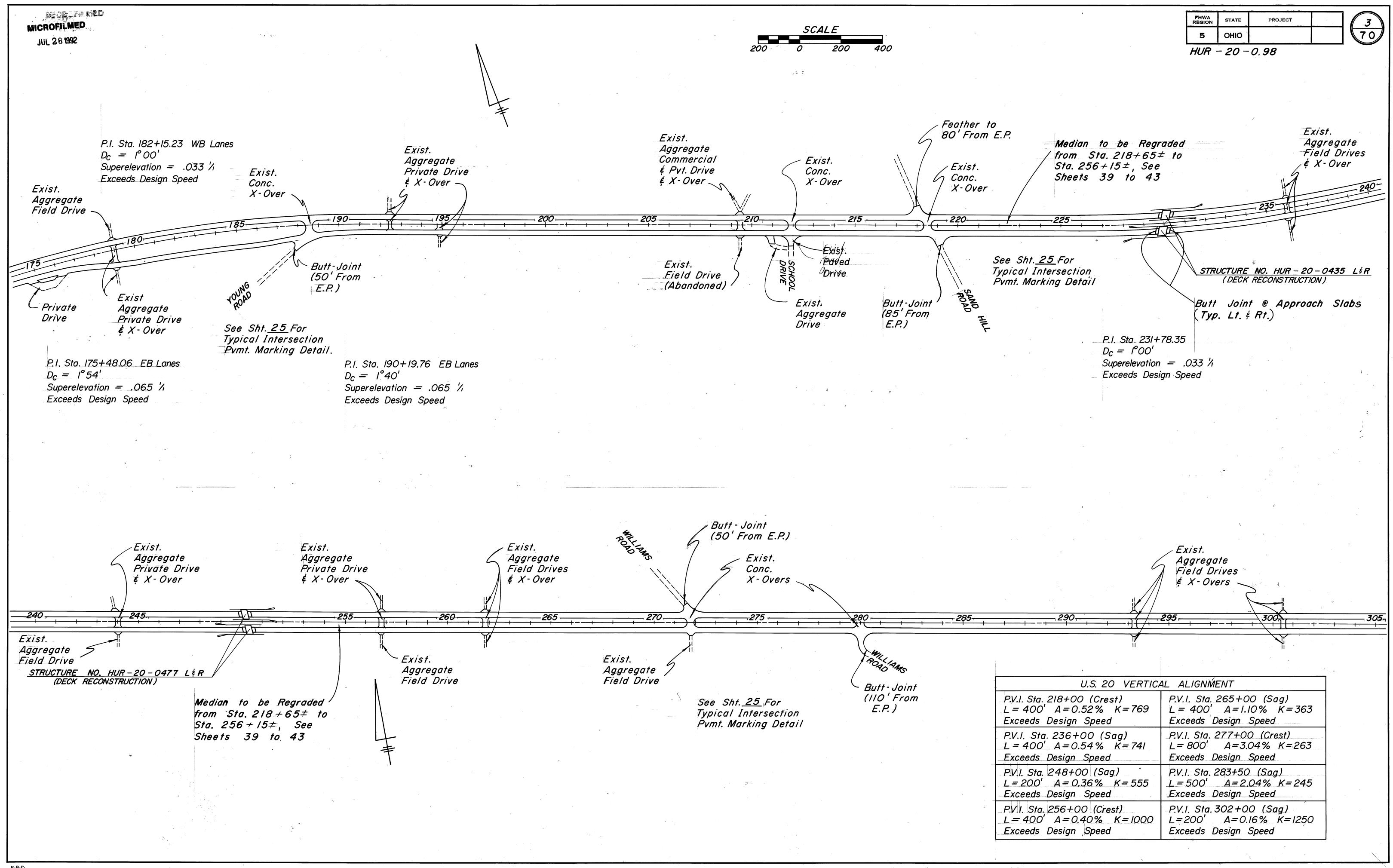
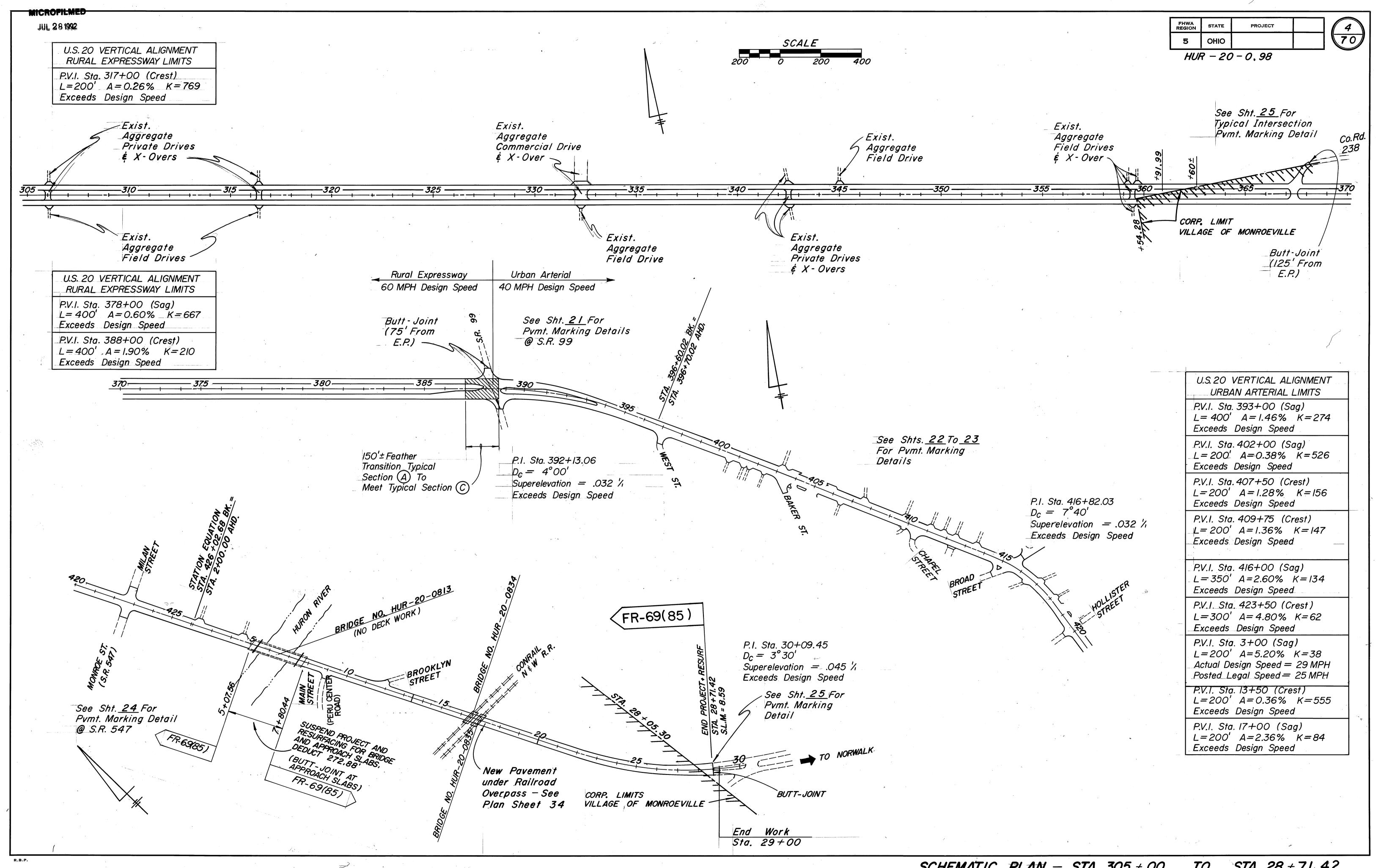
MICROFILMED	STATE OF OHIO	HUR - 20 - 0.98 FHWA 5 70
DESIGN DESIGNATION	DEPARTMENT OF TRANSPORTATION MICROFILMED	FR-69(85) FEDERAL PROJECT
CURRENT ADT (1985) = 7,500		
DESIGN YEAR ADT (2005) = 11,000 DHV = 1,100	H(1) + 7(1) - (1) 98	FR-69(85)
D = 55% T = 26%		
V - RURAL EXPRESSWAY = 60 MPH EXCEPT AS NOTED URBAN ARTERIAL = 40 MPH ON SHEETS 588	JI I AGF OF MONROFVII I F	
LEGAL SPEEDS - RURAL _ 55 MPH		No PID
URBAN 25 & 35 MPH LYME	AND RIDGEFIELD TOWNSHIPS	C No. 870431
	HURON COUNTY	1007 ODEOJEJOATIONO
CONVENTIONAL SIGNS		1987 SPECIFICATIONS The standard specifications of the State of Ohio,
County Line ————————————————————————————————————		Department of Transportation, including changes and supplemental specifications listed in the proposal shall
Section Line————————————————————————————————————	BEGIN PROJECT SS	govern this improvement.
Fence Line (existing)—×———————————————————————————————————	g fence)-x-R-x- or ++++++++ ERIE (13)	
Trees \bigcirc , Stumps \nearrow , (to be removed) \nearrow Guardrail (existing) \bigcirc \bigcirc \bigcirc (propultility Poles: Telephone $\not o$, Power $\not o$, Light $\not o$.		I hereby approve these plans and declare that the making of this improvement will not require
	BELLEVUE SEYMOUR CREEK INORWAL	the closing of the highway to traffic and that provisions for the maintenance and safety of
INDEX OF SHEETS	PLAN 34	traffic will be as set forth on the plans and estimates.
TITLE SHEET I RAILROAD UNDERPASS P SCHEMATIC PLANS 2-4 QUANTI	ITIES 35	eşimdies.
TYPICAL SECTIONS 5-8 DETAILS GENERAL NOTES 9-12 CROSS-	- SECTIONS 37	
GENERAL SUMMARY 14-16 GUARDRAIL PLAN RESURFACING CALCULATIONS 17-18 CROSS-SECTIONS	38 39-43 END PROJECT [13]	
PAVEMENT MARKING 19-25 CATCH BASIN SUMMARY SIGNING 26-28 MISC. DETAILS	46-47	
SCHOOL ZONE PLAN 29 TRAFFIC MAINTENANCE SIGNAL PLAN @ S.R. 4 30 STRUCTURES OVER 20	49,48A-59,59A SHERMAN PERU = -	
SIGNAL DETAILS 31 S.R. 4 INTERSECTION PLAN 32	BRONSON =	
CROSS-SECTIONS 33 SHEET I3 DELETED	LOCATION MAP	
	SCALE IN MILES	Approved <u>Jan W. P. M.</u> Date <u>12/12/86</u> District Deputy Director of Transportation
LINE DATA	Portion to be improved	Date 72/12/06 District Deputy Director of Transportation
BEGIN PROJECT STA. 50+90.00	State & Federal Routes SUPPLEMENTAL SPECIFICATIONS Other Roads Supplemental specifications	
STATION EQUATION STA. 396 + 60.02 (BK.) = BEF	ORKING DAYS ORE YOU DIG SCALES 824 10-8-82	Date 1-5-87 Engineer, Bureau of Bridges and
STATION EQUATION STA. 426 + 02.68 (BK.) = 2,932.66 L.F. Call800	0-362-2764 (Toll free) TIES PROTECTION SERVICE Plan Plan	Structural Design
	Profile:Horizontal ,Vertical	3/17/Approved Waynett. Kauble
DEDUCT FOR BRIDGE HUR-20-0813	Cross Section: Horizontal 5 0 5 Vertical 5 0 5 932 - 3-25-85	Date <u>5-1-87</u> Chief Engineer, Planning and Design
NET PROJECT LENGTH	SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS	τ 0 τ 0
ADD FOR WORK: S.R. 4 INTERSECTION SIGNAL WORK 607.00 L.F.	BP-1 G-1-G5 TC-41.10 8-29-84 FC-83.10 1-20-84 BP-3 12-6-76 GR-1 1-11-85 MC-4 7-26-76 TC-41.20 3-26-79 TC-84.20 1-20-84	Approved Waven J Smith Date 5-1-87 Director, Department of Transportation
BRIDGE HUR-20-0813	BP-4 I - I - 85 GR-2B 2 - 5 - 82 MC-9A I - I - 85 TC-4 1.40 6 - 18 - 79 TC-85.20 I - 20 - 84 BP-5 I - 1 - 85 GR-3 I - 21 - 85 MC-10 5 - 1 - 76	
STA. 28+71.42 TO 29+00	BP-6 6-1-65 GR-4 2-5-82 MH-1 12-18-84 AS-1-81 11-27-81 *BP-7 12-6-76 GR-4A 1-30-84 MH-3 12-18-84 TC-42.10 8-19-77 DBR-2-73 4-10-73 GR-5 2-5-82 MH-5 6-12-75 TC-42.20 3-26-79 PSBD-1-81 9-18-81	DEPARTMENT OF TRANSPORTATION
OR 7.729 MILES Plan Prepared By	GR-5 2 - 5 - 82 MH-5 6 - 12-75 1 C-42.20 5 - 26-79 F-36D-1-61 9 1 6 61 GR-6 2 - 5 - 82 TC-52.20 4 - 3 - 79 C-5-2-73 4 - 10-73 CB-2-2A8B 5-1-79 TC-16.20 1 - 20-84	FEDERAL HIGHWAY ADMINISTRATION
DISTRICT 3 DESIGN	CB-5 11-10-83 I-2A 12 18-84 TC-21.20 1-20-84 TC-71.10 4-9-79 MT-99.10 11-14-86 TC-35.10 8-29-84 MT-99.20 11-14-86	APPROVED:
Project: HUR — 20 — 0.98, HURON COUNTY Date of Letting	#L-10 12-28-84 TC-81.10 1 - 20-84 TC-82.10 8 - 29-84	DIVISION ADMINISTRATOR DATE
.D 0300 Rev. - -8 -		





(·)



FHWA REGION STATE PROJECT

5 OHIO

70

HUR - 20 - 0.98

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Abutments	Piers	Super.	General
202	Lump		Portions of Structure Removed, Superstructure, As Per Plan	,	3	Lump	
202	43	Cu. Yd.	Portions of Structure Removed, Abutments, As Per Plan	43			
202	13	Cu. Yd.	Portions of Structure Removed, Pier Caps, As Per Plan		13		
503	Lump	1	Unclassified Excavation	Lump		,	
en en en en en en en en en			THE CONTROL OF THE CO				
See .		क्यां की हैं। क	The state of the s	A CONTRACTOR OF THE SECOND SEC	Service Services	with the same of t	
511	29	Cu. Yd.	Class "5" Concrete, Pier Cops, As Per Plan		29		
511	60	Cu. Yd.	Class "5" Concrete, Abutments, As Per Plan	60			
511	157	Cu. Yd.:.	Class "5" Concrete, Superstructure, As Per Plan			157	u.
and the state of t							
517	200	Lin. Ft.	Railing (Deep Beam Rail with Steel Tubular Back-up, Type 2 Posts and Bolts)		,	200	· •
518	51	Cu. Yd.:.	Porous Backfill, As Per Plan	51			
				494.54.44.49	,		
824	44,322	Lb:	Epoxy Coated Reinforcing Steel	4469	623.7	33,616	
Special	42	Sq. Yd.	Sealing of Concrete Surfaces (See Proposal Note)			42	
				<u> </u>			

References shall be made to Standard Drawings:
A5-1-81 - Dated 11-27-81
C5-2-73 - Dated 4-10-73
DBR-2-73-Dated 4-10-73
GR-1 Dated 1-11-85
And to Supplemental Specification
824 - Dated 10-8-82

Design Specifications: This Structure Conforms to "Standard Specifications for Highway Bridges" Adopted by the American Association of State Highway and Transportation Officials, 1983, including the 1984 \$ 1985 Interim Specifications and the "Ohio Supplement" to the Specifications.

Design Data: Design Loading - HS-20-44 and the Alternate Military Loading.

Concrete Class "S" = Unit Stress 1500 P.S.I.

Concrete Class "C" = Unit Stress 1333 P.S.I.

Reinforcing Steel - ASTM A615, A616, or A617

Unit Stress 20,000 P.S.I.

Deck Protection Method: Epoxy Coated Reinforcing Steel, Top and Bottom Mats. 21/2" Clearance of Top Reinforcing from Surface of Deck.

Monolithic Wearing Surface: Is Assumed, for Design purposes, to be I" thick.

Bench Mark: Spike in Cable Pole
South Side of Bridge 0435 Rt.

Elev. = 759.34.

EXISTING STRUCTURE

TYPE: Continuous Concrete Slab with Concrete
Substructure

SPAN: 2 @ 18'-0" Clear
ROADWAY: 2 @ 44'-0" F/F Guardrail

SKEW: 15° L.F.

LOADING: 5-20-46

WEARING SURFACE: Asphalt

APPROACH SLABS: 15' Long x 24' Wide

ALIGNMENT: 1°-00' L.C.

SUPERELEVATION: 0.033'/

PROPOSED STRUCTURE

TYPE: Continuous Concrete Slob on Existing
Substructure

SPAN: 2 @ 19'-0" Clear

ROADWAY: 2 @ 44'-6" F/F Railing

SKEW: 15° L.F.

LOADING: H5-20-44 (Slob only)

WEARING SURFACE: 1" Monolithic Concrete

APPROACH SLAB5: 25' Long x 44'-6" Wide

ALIGNMENT: 1°-00' L.C.

SUPERELEVATION: 0.033'|1

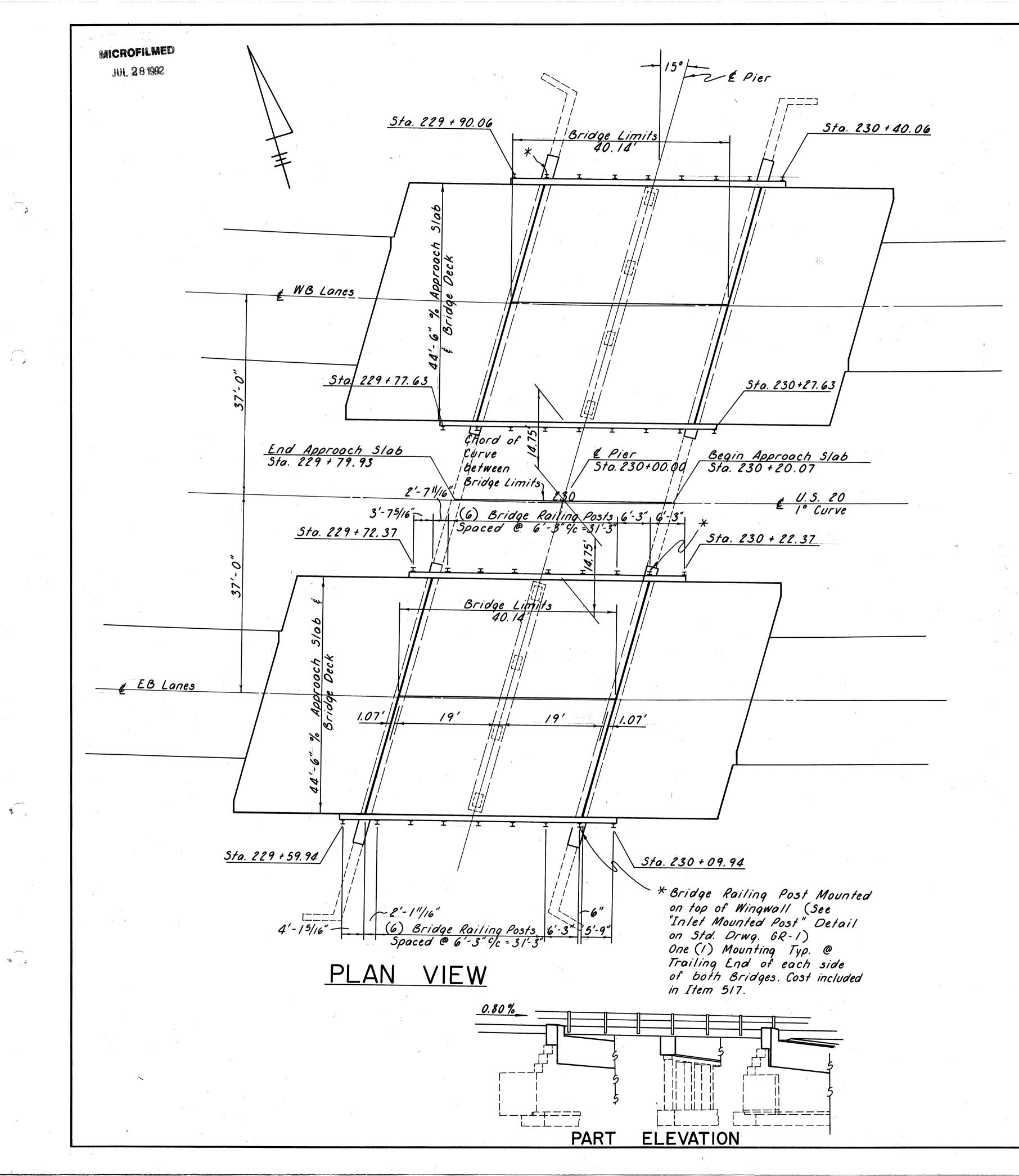
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

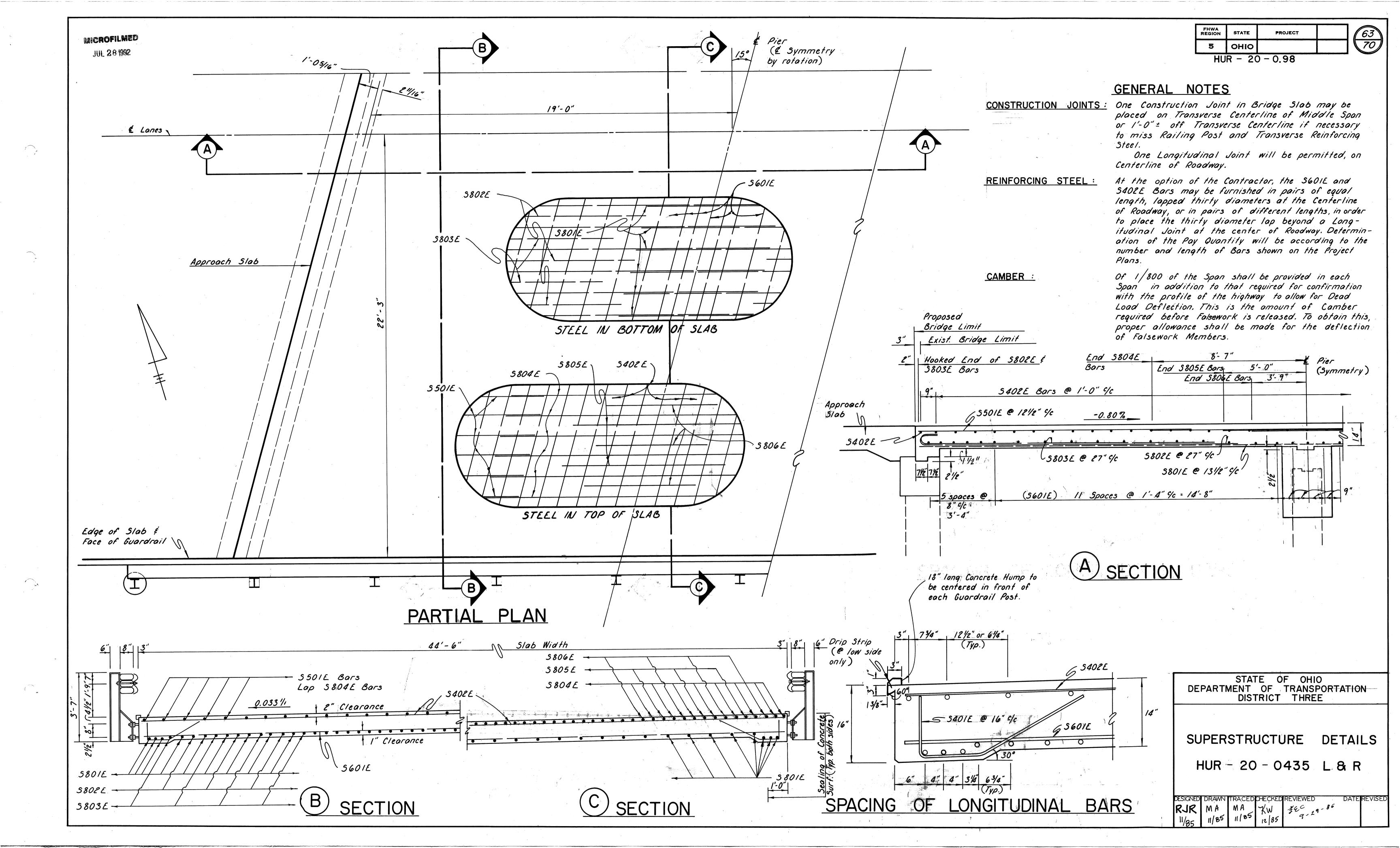
GENERAL PLAN — ELEVATION

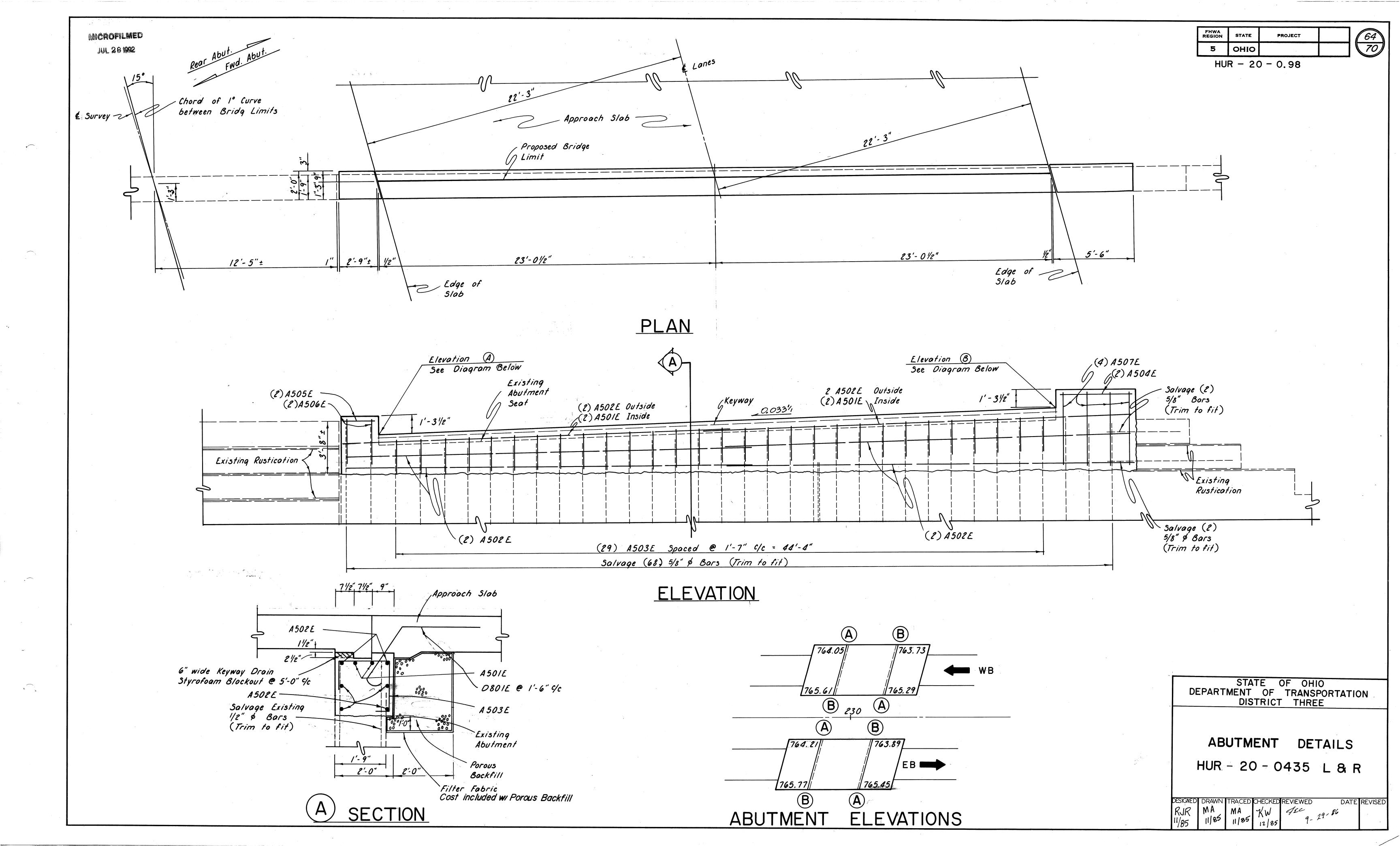
ESTIMATED QUANTITIES

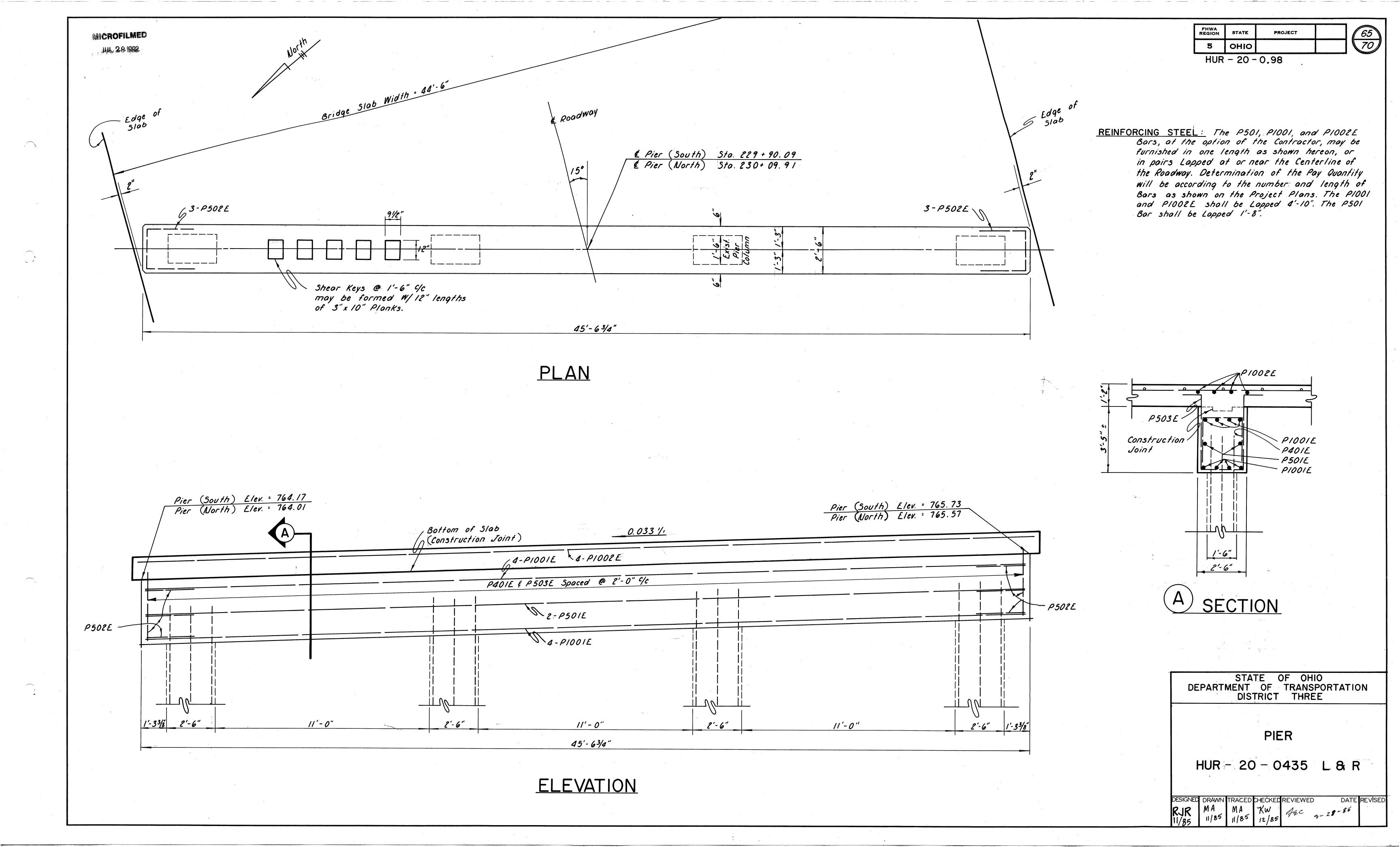
HUR - 20 - 0435 L & R

ESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RJR	MA			Ahc a	,86	
11/85	11185	11/85	12-85	9-2"		
רש/"	ן יון	11/0	•			

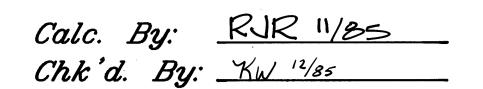








REINFORCING STEEL LIST

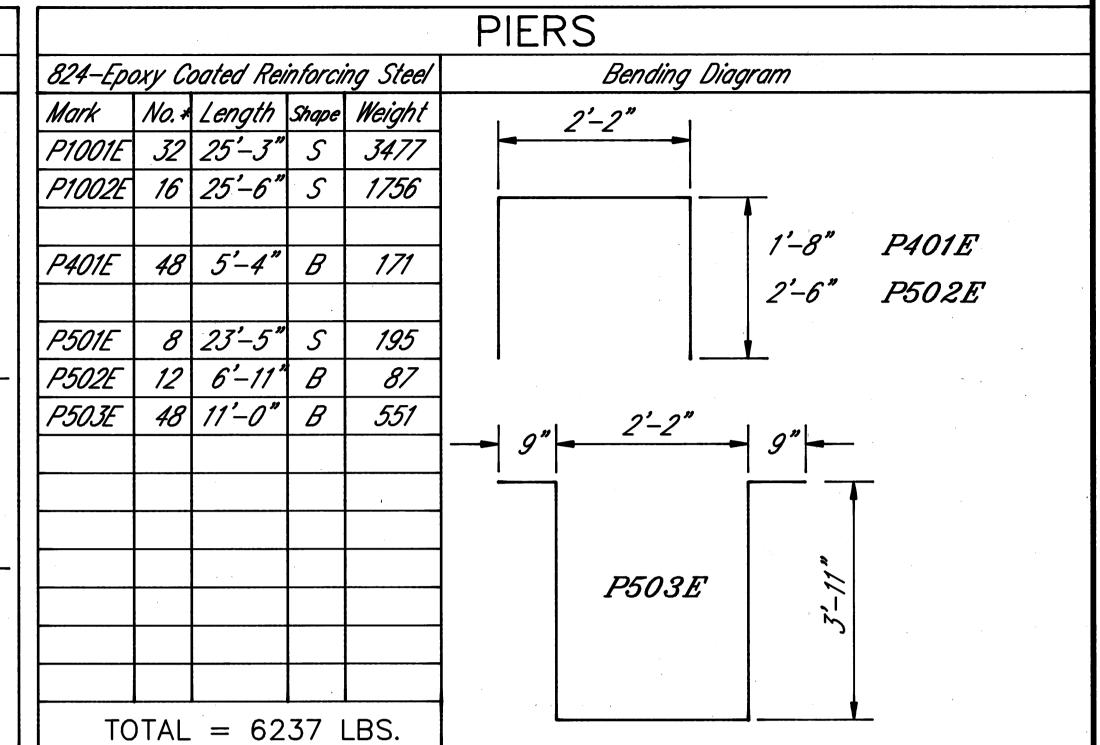


HUR-20-0.98

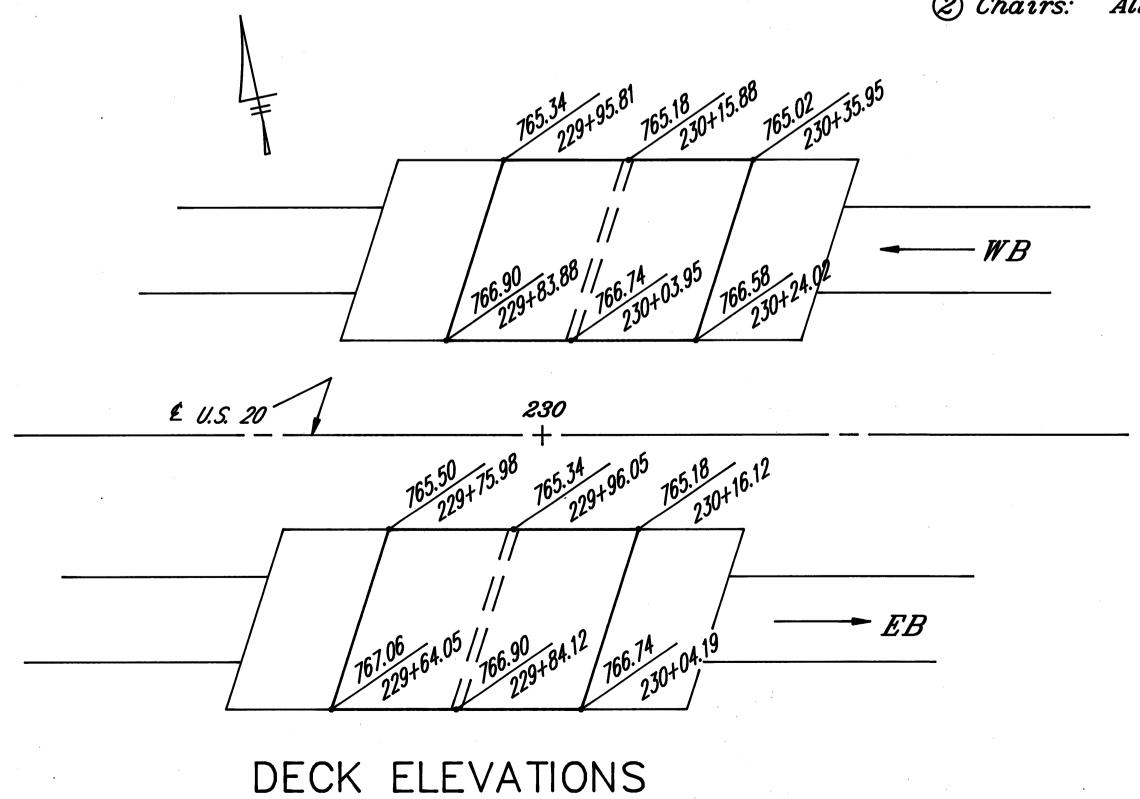


	SUPERSTRUCTURE								
824-Ep	oxy Co	ated Rein	nforcing	g Steel	Bending Diagram	·			
Mark	No. *	Length	Shape	Weight					
S801E	172	22'-9"	5	10448		·			
S802E	76	17'-1"	В	3467					
<i>S803E</i>	76	15′-9"	В	3196	16'-0"	S802E			
S804E	88	17'-2"	5	4034	14'-8"	S803E			
<i>S805E</i>	40	10'-0"	5	1068					
<i>S806E</i>	42	7'-6"	5	841					
					an or we we	a de la companya de			
S401E	124	4'-0"	В	331		>30.			
S402E	164	23'-0"	5	2520	12				
					7 /2	\			
<i>S501E</i>	176	13'-9"	5	2524	2'-0"				
S601E	148	23'-4"	5	5187	1'-1"				
·									
					S401E				
	TOTAI	_ = 33	3,616	LBS.					

	ABUTMENTS												
	824-E	DOXY	Coate	ed Re	inforcing	Stee	/	Bending Diagram					
1	Mark	Numb Rr. A.	ber * Fwd.A.	Total No. *	Length	Shape	Weight	\ 1					
	D801E	62	62	124	5'-0"	В	1655						
	A501E	8	8	16	24'-4"	5	406	1'-0" 2'-8"					
	A502E	24	24	48	27'-10"	5	1394	D801E					
	A503E	58	58	116	5'-10"	B	706	1 1'-8"					
	A504E	4	4	8	5'-0"		42	- 					
1	A505E	4	4	8	2'-3"		19	<u> </u>					
١	A506E	4	4	8	7'-10"	В	66	A503E					
	A507E	8	8	16	10'-10	<i>B</i>	181	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
								A507E					
							· · · · · · · · · · · · · · · · · · ·						
								Mark A B 6"					
								A503E 2'-0" 2'-0" A506E 2'-6" 3'-6" A507E 4'-0" 5'-0"					
								A503E 2'-0" 2'-0" A506E 2'-6" 3'-6" A507E 4'-0" 5'-0"					
				TOT	AL = 4	4469	B LBS.						



- (1) Reinforcing Steel Samples: 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.
- @ Chairs: All chairs shall be epoxy coated.



* Total Number For Both Bridges L&R.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

Reinforcing Steel List And Deck Elevations For HUR-20-0435 L&R

				•	
ESIGNED	•	CHECKED			REVISED
SUR	Autocad	XW	Age	9-29-86	
11/85	AUL	12/85	i		