No PID STATE OF OHIO I-480-3 (4) 153 CONVENTIONAL SIGNS C No. 780059 NOTE: Project Designation LOR-80-18.62 DEPARTMENT OF TRANSPORTATION appearing thru-out this plan shall be understood to read LOR-480-0.00 Existing Sewer Center Line Proposed Sewer Existing R/W "LIMITED ACCESS Existing Manhole A SAN WALLET Proposed Manhole Limited Access Line -LA-1 JUL 12 12 LOR480-0.00 Temporary R/W Existing Catch Basin PAPERTURE MAROS Work Agreement Line ----Proposed Catch Basin of The Revised Code of Ohio. Manhole Abandoned Original Lot Line-01.79 MICROVILMED 1977 SPECIFICATIONS Catch Basin Abandoned 🕱 LORAIN COUNTY Existing Guard Rail Water Line JUL 18 1993 Water Valve Proposed Guard Rail Water Hydrant CUYAHOGA COUNTY Gas Line Existing Retaining Wall ====== Gas Valve Railroad Telephone Underground-T-Existing Trees Removed County Line CITY OF NORTH OLMSTED Electric Underground ---- E ---Power Pole Light Pole as set forth on the plans and estimates. SHEETS DELETED FROM THIS PLAN CITY OF NORTH RIDGEVILLE Telephone Pole Sht. Nos. 22, 210-217, 243 , 266 £ 355 SHEETS ADDED TO THIS PLAN Sht. Nos. 20A, 24A, 24B, 241A, 241B, 241G N INDEX OF SHEETS 366A. 367A . 240A Begin Project Pavement Details__ Sta. 975 + 50 Sta. 100+00 Schematic Plan_ 2-3 Storm Sewer Profiles_ S.L.M. 0.00 Typical Sections_ 4-8 Culvert & Ditch Details_ 9-13 EB I-480 & EB U.S. 20 Cross Sections_____ General Summary_ 14-17 W.B. I-480 & W.B.U.S. 20 Cross Sections_____ Povement Colculations___ IB 20A EB & W.B. I-480 Cross Sections_____ 21248 SR 10 Interchange, Ramps Cross Sections____ Sercial Details Horizontal Control Data__ 2526 SR IO (Lorain Road) Cross Sections_____ Superelevation Tables_ 2728 Water Work Plans____ EBI-4808 EBUS 20 Plan & Profile _29.39 Traffic Control Plans__ WB 1480 & WB US 20 Plan & Profile_ _40 49 Lighting Plan_ EB 8 WB 1-480 Plan & Profile 50 53 Structures Over 20 Length_ S.R-IO interchange, Flamps Plan & Profile___5458 Right-of-Way Plans_ SR-10 (Lorgin Rd) Plan & Profile GR-5 GR-6 Sheets 274 6 275 revised 5.11.79 EBL LINE DATA MC-6 MC-7 MC-8 MC-10 MH-1 Begin Project ~ Sta. 975+50.00 to Sta. 998+0301 (Bk) & [-480 E.B. = 2,253.01 L.F. Sta. 0+30.17(Ah.) to Sta. 32+31.00 (Toll Plaza) & [-480 E.B. = 3,200.83 L.F. Sta. 37+31.00(Toll Plaza) to Sta. 74+11.39 & I-480 E.B. = 3,680.39 L.F. Sta. 74+11.39 to Sta. 100+00.00 & I-480 End Project = 2,588.61 L.F. LENGTH OF PROJECT = 11,722.84 LF or 2.220 MILES PLANS PREPARED BY ADD FOR WORK ALDEN E. STILSON & ASSOCIATES 1970 A.D.T.= AS-1-72 BR-1-67 RB-1-55 Lorain Rd. (S.R.10) CONSULTING ENGINEERS SUPPLEMENTAL Sta. 1137+30.00 to Sta. 1153+80.00 = 1.650.00 L.F. 75 PUBLIC SQUARE CLEVELAND OHIO SPECIFICATIONS 50-1-69 6-30-61 DATE Sta. 973+35,00 to Sta. 975+50.00 4-25-77 Sta. 100+25.34 to Sta. 105+37.00 = 511.66 L.F. Portion To Be Improved LENGTH OF ADDITIONAL WORK = 2.376.66 L.F. 9-6-73 State Routes = 11,722.84 L.F. ADD PROJECT LENGTH U.S. Routes 7-27-73 Interstate Routes LENGTH OF WORK = 14,099.50 L.F. or 2.670 MILES 9-6-73 City Streets 3-22-77 **SCALES** 1-21-76 APPROVED: 4-25-77 PLAN

PROFILE: HORIZ.

CROSS SECTIONS

PAVEMENT DETAILS

VERT.

LORAIN COUNTY

DATE OF LETTING

CONTRACT NUMBER_

LOR- 480-0.00

5 OHIO I-480-3(4)153

LORAIN COUNTY LOR.+ 480-0.00

This improvement is especially designed for thru traffic and has been declared a Limited Access Highway or Freeway by action of the Director of Transportation, in accordance with the provisions of Sec 5511.02

The Standard Specifications of the State of Ohio, Department of Trans portation . 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

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for maintenance and safety of traffic will be

Date 1-30-76 District Deputy Director of Transportation Approved Robert B. Cfeefe	
Approved Robert B Cfeefer	
	<u>.</u>
Date 12-21-77 Engineer, Bureau of Bridges and Structural Design	n.
Approved K. E. Gattie	
Dcts 12-22-77 Chief Engineer, Planning and Design	
Approved Amid & Wein	
Date 12-22-77 Director, Department of Transportation	

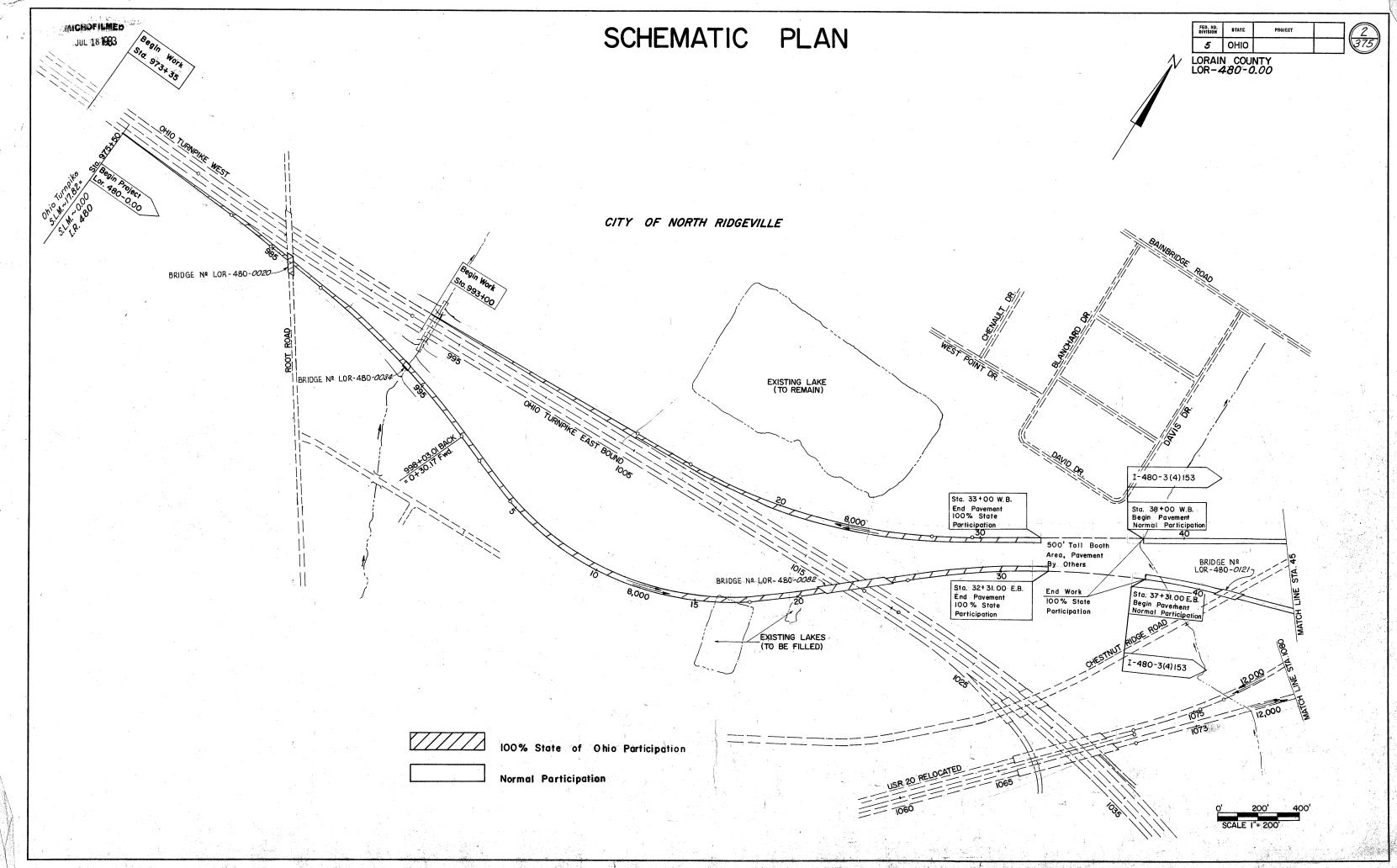
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Number	Date	Number	Date	Number	Date
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		TC-41.10	8-19-77		
TC-22.20	8-19-77	TC-41.20	4-7-77	TC-71.10	12-1-75
TC-7.65	10-1-74	TC-41.50	4-1-77	TC-72.20	8-29-77
TC-12.30	10-1-74	TC-42.10	8-19-77	Literatura de la composição de la compos	and the second of the second
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TC-32.10	8-27-76	TC-52.20	4-1-77	· · · · · · · · · · · · · · · · · · ·	ana di Santana di manana di palanda di
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DESIGN DESIGNATION D. (directional distribution) 67%
T. (percent BBC trucks) 5%
V. (design speed) 60 MPH.

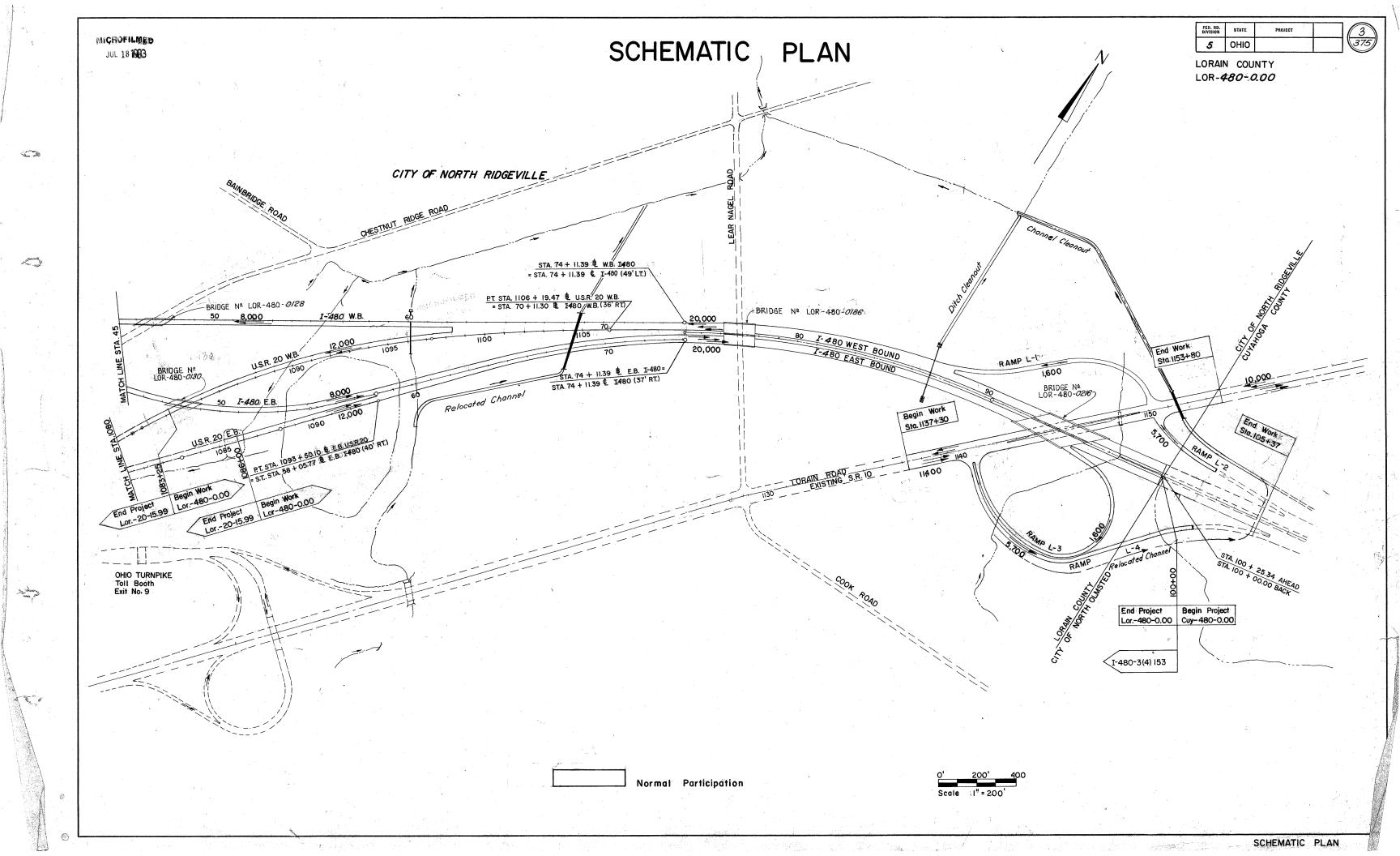
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

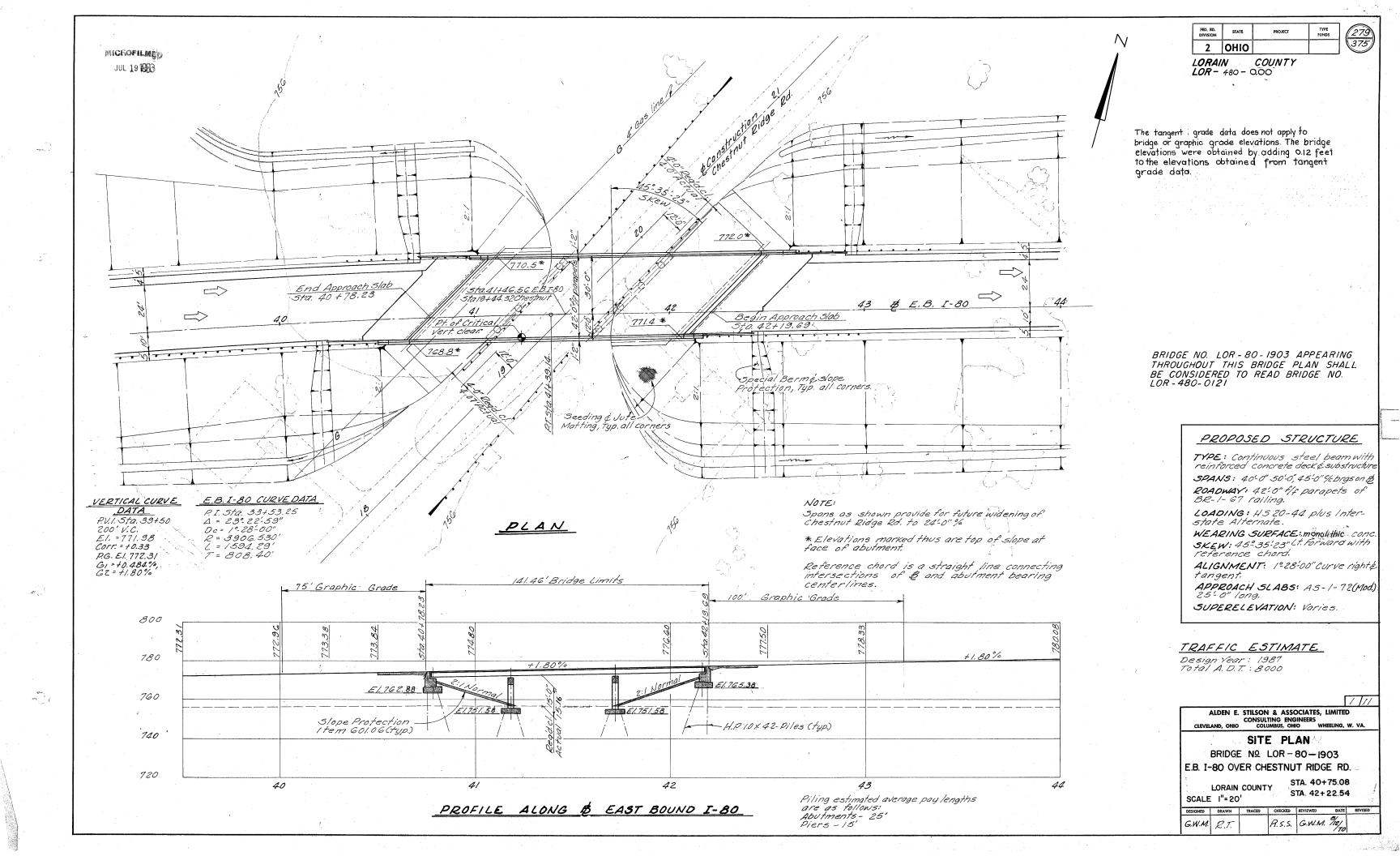
DIVISION ADMINISTRATOR

DATE:



and the same





MICFOFILMED JUL 19 1986

BLUE-GREEN VINYL PAINT

FED. RD. DIVISION 375 2 OHIO

LORAIN COUNTY LOR - 480 - 0.00

STANDARD DRAWING REFERENCES

DESCRIPTION DWG. NO. SHT. END DAM AND END CROSSFRAME SD-1-69 1-2 6-12-69 CURB PLATES SD-1-69 6-12-69 SD-1-69 SCUPPERS 3 6-12-69 BOLTED SPLICES 6-12-69 SD-1-69 BRIDGE ROADWAY RAILING BR-1-67 1 10-15-7/ R ROCKERS AND BOLSTERS RB-1-55 2- 2-59 R AS-1-72(MOD.) # G-30-72 APPROACH SLABS 1-21-76

SUPPLEMENTAL SPECIFICATION REFEREI	NCES-	CON'T.
DESCRIPTION	NO.	DATE
PAINTING FOR NEW STRUCTURAL STEEL	846	4-25-77
INORGANIC ZINC SILICATE PAINT	950	-4-25-77

951 4-25-77

STRUCTURE GROUNDING (R INDICATES REVISED DATE) SUPPLEMENTAL SPECIFICATION REFERENCES DESCRIPTION NO. DATE CHEMICAL ADMIXTURE FOR CONCRETE. 1- 1-71 TYPE A. B OR D CONCRETE CURING AND PROTECTIVE 836 3-12-75 MEMBRANE 838 1-13-77 SPECIAL PILE TESTS COMMON DETAIL REFERENCES CONTRACTION JOINTS & END DAMS

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 'STANDARD SPECI-FICATIONS FOR HIGHWAY BRIDGES' ADOPTED BY THE AMERI-CAN ASSOCIATION OF STATE HIGHWAY OFFICIALS, 1969, INCLUDING THE OHIO 'SUPPLEMENT' TO THESE SPECIFICA-TIONS.

<u>DESIGN DATA</u>

DESIGN LOADING - HS20-44 AND THE INTERSTATE ALTERNATE LOADING

CONCRETE CLASS C - UNIT STRESS 1200 PSI FOR SUPERSTRUCTURE UNIT STRESS 1333 PSI FOR

SUBSTRUCTURE STRUCTURAL STEEL - ASTM A36 - UNIT STRESS 20000 PSI REINFORCING STEEL - ASTM A615, A616 OR A617 - UNIT STRESS 20000 PSI.

SPIRAL REINFORCEMENT MAY BE PLAIN BARS ASTM A82, OR A615.

EMBANKMENT CONSTRUCTION

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE LEVEL OF THE SUBGRADE FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE ABUTMENTS. EXCAVATION SHALL THEN BE MADE FOR THE PIERS AND ABUTMENTS

PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF-

35 TONS PER PILE FOR THE ABUTMENTS AND WINGWALLS 35 TONS PER PILE FOR THE PIERS

UTILITY LINES

ALL EXPENSE INVOLVED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CON-TRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY AR-RANGING THEIR WORK IN SUCH A MANNER THAT INCONVENI-ENCE TO EITHER WOULD BE HELD TO A MINIMUM.

MAINTENANCE OF TRAFFIC
TWO LANES OF TRAFFIC WITH A MINIMUM HORIZONTAL WIDTH OF 20'-0 AND A MINIMUM VERTICAL CLEARANCE OF 13'-6 SHALL BE MAINTAINED ON CHESTNUT RIDGE ROAD AT ALL TIMES.

* Std. Dwg. A5-1-72 shall be modified to provide 3"Clearance to the top re-bars instead of the 2" shown and jacking holes shall be omitted.

ITEM	TOTAL	UNIT	DESCRIPTION	ABUTS	PIERS	SUPER	GENERAL				
503	462	C.Y.	UNCLASSIFIED EXCAVATION	312	150						_
503	LUMP	SUM	COFFERDAMS, CRIBS AND SHEETING				LUMP				7
505		SUM	TEST PILE				LUMP				1
,					A STATE OF THE STA						1
507	1290	L.F.	STEEL PILES, HP10X42	750	540						1
											1
509	60319	LB	REINFORCING STEEL	16586	20925	22808					1
,		 									1
511	193	C.Y.	CLASS C CONCRETE, SUPERSTRUCTURE (SEE PROPOSAL NOTES)			193					1
511	133	C.Y.	CLASS C CONCRETE, ABUTMENTS ABOVE FOOTINGS	133							1
511			CLASS C CONCRETE, PIER CAPS AND COLUMNS		85						1
511	160		CLASS C CONCRETE, FOOTINGS	102	58						1
311	100	C . 1 .	CERO C CONCRETE; TOUTINGS	102							+
E10	1.5	1 =	PREMOLDED SEALING STRIP	15							1
512	19	L.F.	INCHOLDED DEULTING OLIVII	10							1
F13	120000	1.0	CTRUCTURAL CIEFL PRIMER DED ONG /CEE DRADACAL MATECT			130800					1
513	130800	LB	STRUCTURAL STEEL, PRIMER PER 846 (SEE PROPOSAL NOTES)			130000				f	1
	100000		EVEL D. DOVINTANC OF CTOUCTUROL CTEEL			120000					+
846	130800	LB	FIELD PAINTING OF STRUCTURAL STEEL			130800				<u> </u>	-
			A THOU POSTOCKED EVECTOR INTELLED				70				-
516	70	8.1.	1/2 INCH PREFORMED EXPANSION JOINT FILLER				/0				4
										<u> </u>	-
518	70		POROUS BACKFILL	70							4
518	5		SCUPPERS INCLUDING SUPPORTS			5					4
518	116		6 INCH PERFORATED, HELICAL CSP, 707.01	116	,						4
518	86	L.F.	6 INCH NON-PERFORATED, HELICAL CSP, INCLUDING	86							4
			SPECIALS, 707.01								4
7 - 7	· · ·		The state of the s								_
601	656	S.Y.	CONCRETE SLOPE PROTECTION				656				1
											_
808	193	UNIT	CHEMICAL ADMIXTURE FOR CONCRETE, TYPE A, B OR D			193					_
838	. 3	HR.	SPECIAL PILE TESTS				3				
v. 1. C	*		A Comment of the Comm								
SPEC.	27158	LB.	EPOXY COATED REINFORCING STEEL (SEE PROPOSAL NOTE)	1123		26035		-			
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Monolitic wearing surface thickness is assumed to be !"

Deck Protection Method: Epoxy Coated reinforcing steel, top mat only.

Minimum bar lap shall be 30 diameters

ATTACHMENT OF GUARDRAIL TO CONCRETE PARAPETS:

Concrete insert anchor assemblies per Standard Construction Drawings GR-3 and GR-I shall be placed during parapet construction.

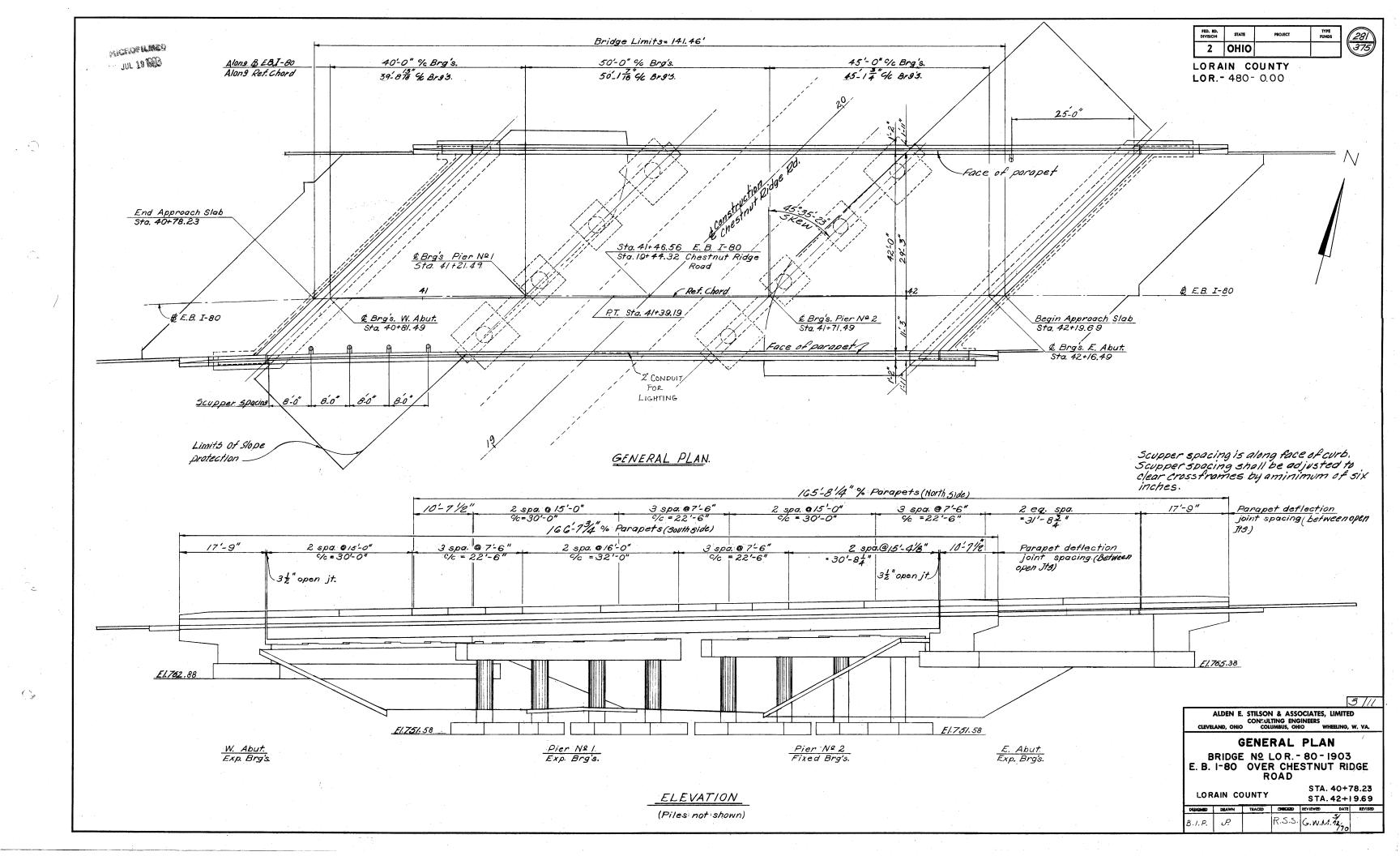
2/11 ALDEN E. STILSON & ASSOCIATES, LIMITED

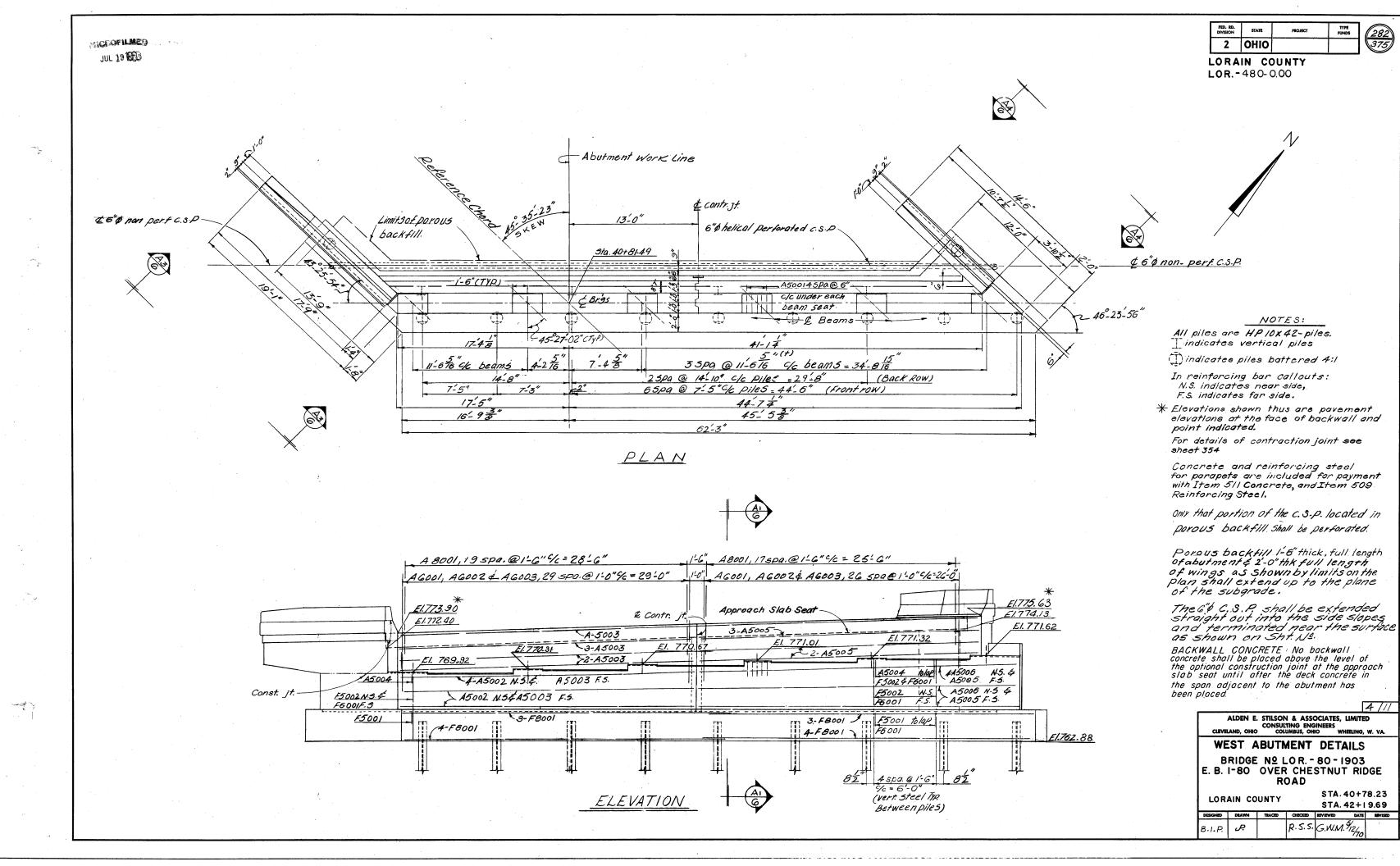
CONSULTING ENGINEERS
CLEVELAND, OHIO COLUMBUS, OHIO WHEELING, W. VA.

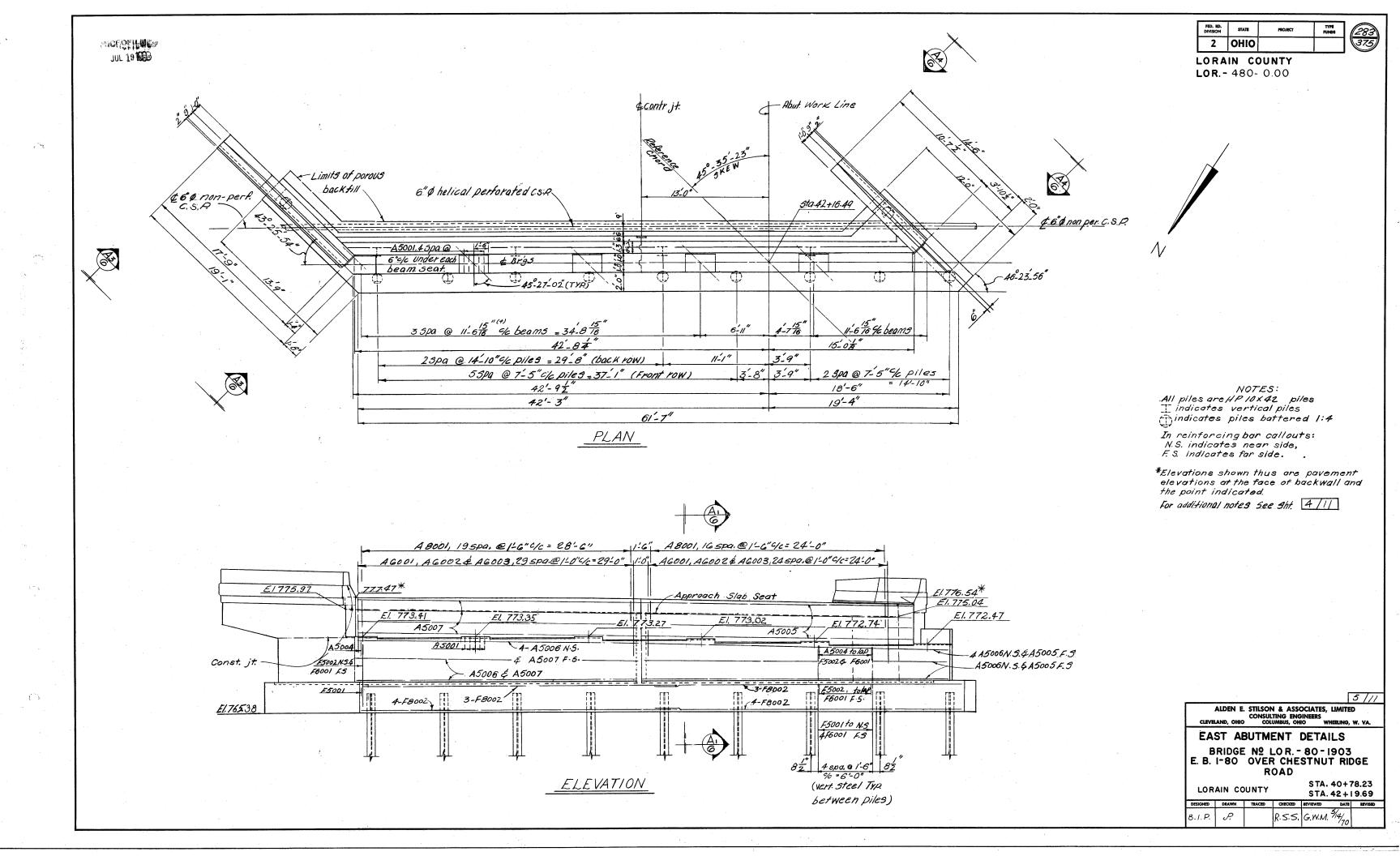
GENERAL NOTES AND ESTIMATED QUANTITIES BRIDGE Nº LOR-80-1903 E.B. I-80 OVER CHESTNUT RIDGE RD.

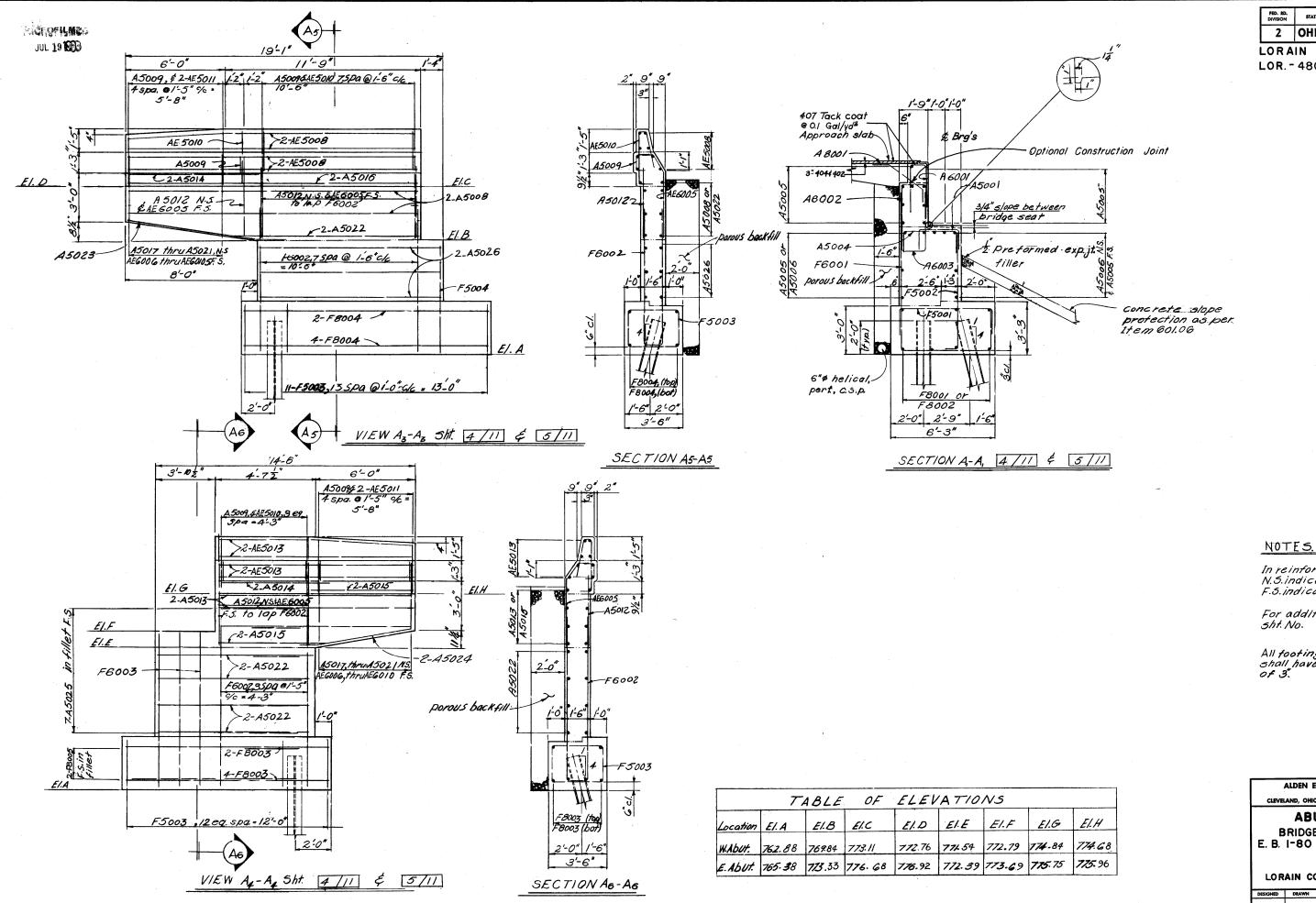
STA. 40 + 75.08 LORAIN COUNTY STA. 42 + 22.54

TRACED CHECKED REVIEWED DATE REVISED W.M.A. G.W.M. 5/2/10 B.D.









284 375) STATE OHIO

LORAIN COUNTY LOR. - 480-0.00

In reinforcing bar callout: N.S.indicates near Side F.S.indicates far Side

For additional notes see 5ht. No. 4/11

All tooting reinforcement shall have a minimum cover of 3.

6/11

ALDEN E. STILSON & ASSOCIATES, LIMITED CONSULTING ENGINEERS
CLEVELAND, OHIO COLUMBUS, OHIO WHEELING, W.

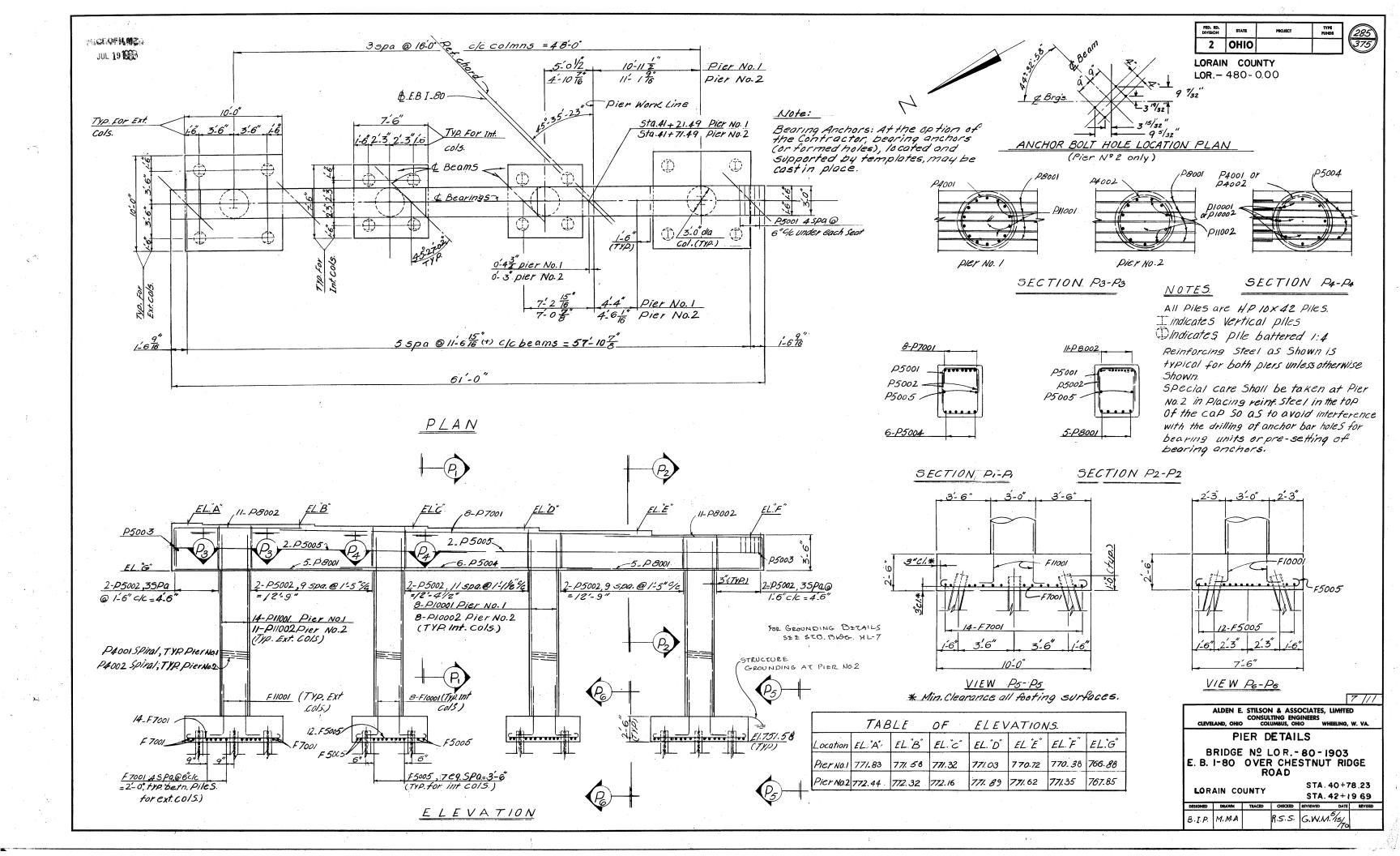
ABUTMENT DETAILS

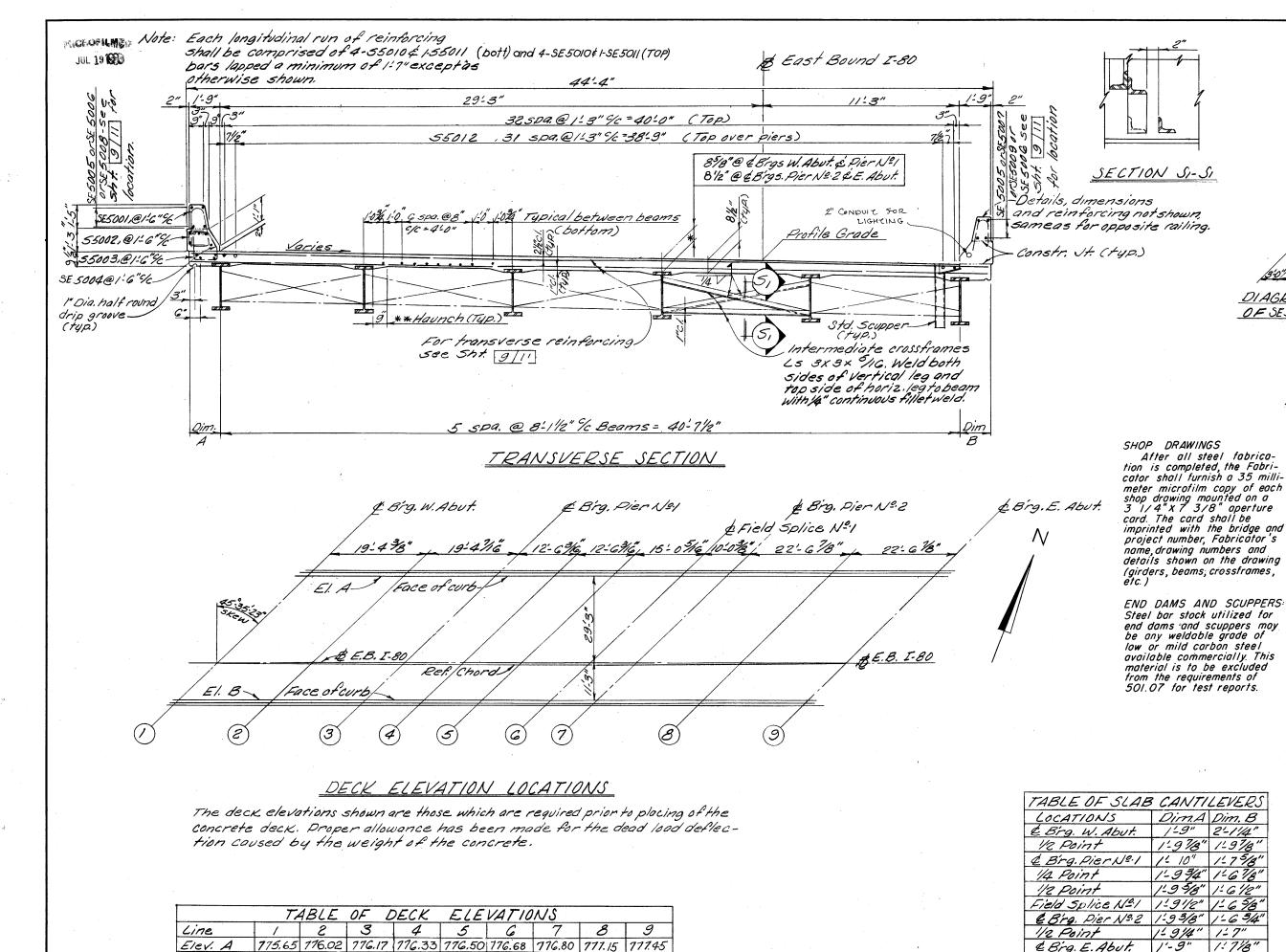
BRIDGE Nº LOR. - 80-1903 E. B. I-80 OVER CHESTNUT RIDGE ROAD

LORAIN COUNTY

STA. 40+78.23 STA. 42+19.69

R.S.S. G.W.M. 5/15/70 P





713.93 714.35 714.73 714 99 715.24 115.53 115.70 116.13 716.52

STATE 2 OHIO

LORAIN COUNTY LOR.-480-0.00

& Piers DIAGRAM SHOWING STAGGER OF SESOIZ BARS OVER PIERS

NOTES:

*This is the design dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade. For details of end dam see 5ht. 287

* * A hounch width of 9" shall * * A naunch width of 9" Shall be used for all beams in computing quantity of concrete. However the naunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a naunch less then 9" in width.

Concrete and reinforcing steel for parapets Shall be included for payment with their respective items. Item 511 Superstructure concrete and Item 509 reinforcing steel.

Longitudinal reinforcing steel shall be field cut as necessary to avoid interference with scuppers.

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.

For additional notes see Sht. 9/11

ALDEN E. STILSON & ASSOCIATES, LIMITED

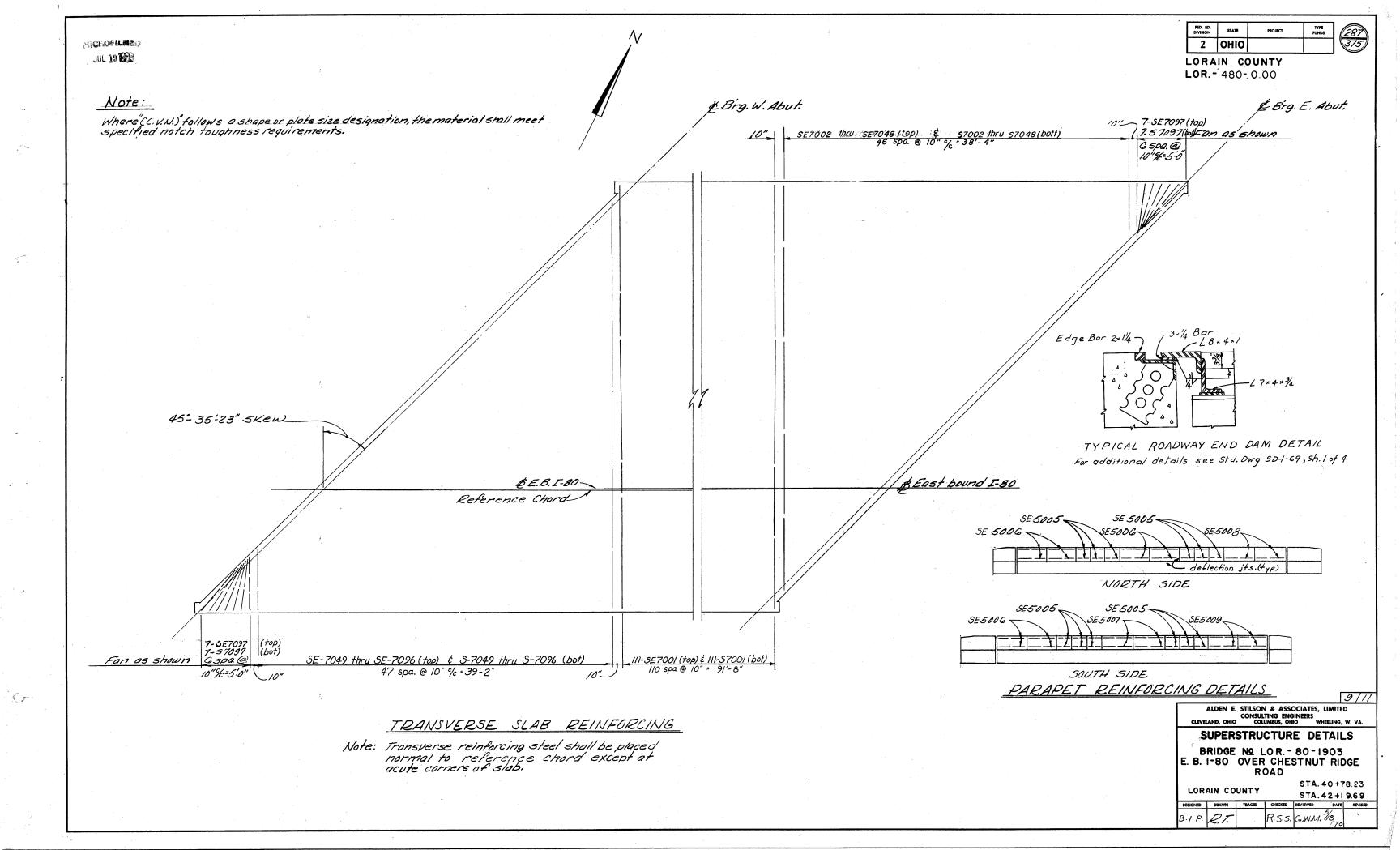
CONSULTING ENGINEERS CLEVELAND, OHIO COLUMBUS, OHIO

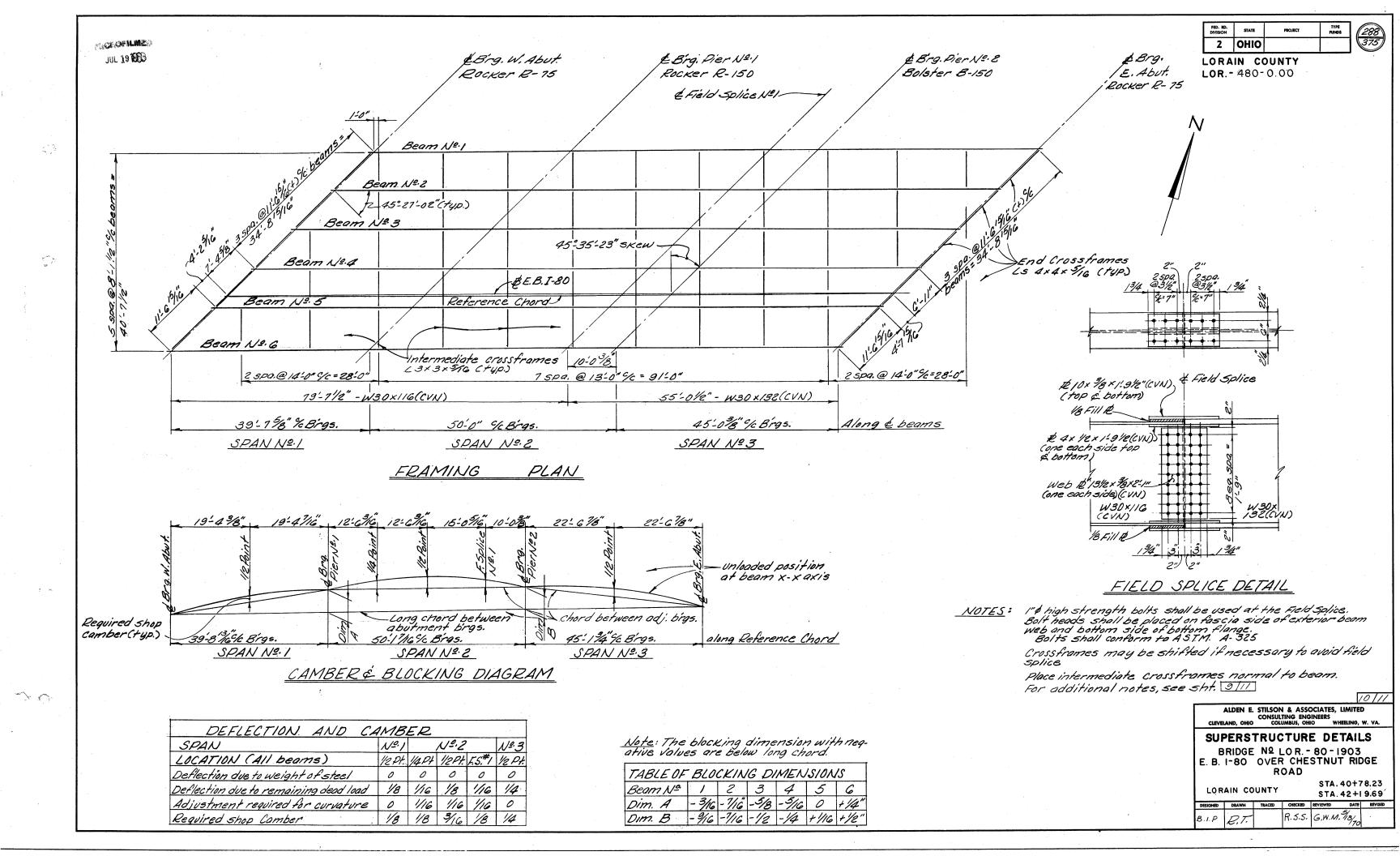
SUPERSTRUCTURE DETAILS BRIDGE Nº LOR. - 80-1903 E. B. I-80 OVER CHESTNUT RIDGE ROAD

LORAIN COUNTY

STA. 42+19.69 R. S.S. G.W.M. 7/8/

STA. 40+78.23





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AE 5010	26	6-2	167	19		2-5	3-0	0-8		
	40	3-0				2 3	30	0.0		
AE 5011 AE 5013	16	10-4	172	ST ST						
AE SUIS	10	10 4	116	51						
	0.0		000	15		0.0			<u> </u>	
AE 6005	26	5-4	208	, 15		0-9	0-9		0-11	
AE 6006	4	5-0		15	1 = 110=11	O-9	0-9	3-2	0-11	
THRU			160		LENGIHZ	DIM D	BY	0-2		
AE 6010	ે.4	5⊴8≒		135						
				0.1055	070.107				·	
	10.4	5-0			STRUCT	-	0-0			
SE 5001	184	5-4	1024				2-2		0-0	
SE 5004	184	3-2	608	15	0-8	0-8	1-0	0-9	0-9	
SE 5005	48	7-2	359	ST						
SE 5006	24		367	ST						
SE 5007		15-8	131	ST	,					·
SE 5008		15-5	129	ST			,			
SE 5009	8		125	ST						
SE 5010		30-0	5883	ST						
SE 5011	47		1115	ST						
SE 5012	72	20-0	1502	ST						
8./										
SE 7001	111	43-8	9907	ST						
SE 7002		5-6		ST						
THRU			2346		VARY	LENGTH	BY	0-9%		
SE 7048	1	43-4		ST						1
SE 7049		5-6		ST						1
THRU	,		2396		VARY	LENGTH	BY	0-95/8		
SE 7096	1	43-4		ST						١
SE 7097	14	5-0	143	ST			,			
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MARK	NUM.	LENGTH	WEIGHT	TYPE	A	В	С	D	Ε	NOTE
a 5001	60	4-11	308	2	MENTS 1- 6	2- 2	1- 6			
5002	6	30- 3	189	ST	1- 0	2-2	1- 0			
5003	11	32-3	370	ST						+
9 5004	82	8- 2	698	2	2- 6	3- 5	2- 6			
3004	22	27- 8	635	ST	2- 0	J- U				
9 5006	18	29- 3	549	ST						+
										
5007	11	31-5	360	ST						
5008	.8	17- 5	145	ST		1 0	0 0			
5009	46	1- 9	84	2	0- 6	1-0	0- 6			
		<u> </u>					. ,			
										<u> </u>
7 5012	26	3- 5	93	ST						<u> </u>
5013	. 8	10- 4	.86	ST						
7 5014	8	6- 1	51	ST						
9 5015	8	5-10	49	ST						
5016	4	11- 7	48	ST						
a 5017	4	3- 2		ST						1
THRU			76		VARY	ENGTH	BY	0- 3		T
7 5021	4	4- 2		ST						1
A 5022	20	8- 2	170	ST		<u> </u>				
A 5023	4	9- 7	40	12		8- 0	1- 7	0- 6		†
A 5024	4	7- 7	32	12		6- 0	1- 7	0- 6	 	
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9 5026	12	10- 9	135	ST	 					+
7 0020	12	10- 8	135	0 !	 		<u> </u>	 		
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A 6002	112	6-1	1023	2	2-6	1-5	2-6	ļ	<u> </u>	
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F 6002	24	19- 6	703	2	9- 4	1- 2	9- 4	<u></u>		
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F 8001	14	32- 3	1206	ST				I	T	T
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P 5002	160	8- 9	1460	2	3- 2	2-8	3- 2			
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P 8002	44	19- 5	2281	2	16- 6	3- 2				
P10001	16	15- 6	1067	ST						
P10002	16	16- 6	1136	ST						
P11001	28	15- 6	2306	ST						
P11002	22	16- 6	1929	ST						
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FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	1/2
2	OHIO			

LORAIN COUNTY

NOTES

- 1. INDICATES SERIES BAR. EACH BAR VARIES FROM ADJACENT BAR (S) BY TABULATED AMOUNT (S). CALCULATED TO NEAREST 1/8 INCH. WEIGHT SHOWN IS FOR ENTIRE SERIES UTILIZING AVERAGE LENGTH.
- 2. BARS INCLUDED WITH ITEM 517, RAILING, FOR PAYMENT.
- 3. COST OF FIELD BENDING SHALL BE INCLUDED WITH ITEM 509.
- 4. LIGHT POLE SUPPORT BARS INCLUDED WITH ITEM 509 FOR PAYMENT.
- 5. END PREPARATION AND FIELD WELDING INCLUDED WITH ITEM 509.
- 6. 'LENGTH' SHOWN FOR SPIRAL BARS IS DISTANCE FROM TOP OF FOOTING TO BOTTOM OF PIER CAP.
 'NO. TURNS' SHOWN IS 'LENGTH' DIVIDED BY PITCH, PLUS 3 TURNS (NUMBER OF CLOSED COILS). EXPRESSED AS NEAREST WHOLE NUMBER.

1 1/2 CLOSED
COILS SHALL BE PROVIDED AT ENDS OF
EACH SPIRAL UNIT. FOUR STEEL CHANNEL,
TEE OR ANGLE SPACERS, WEIGHING
APPROXIMATELY 0.80 LB. PER LIN. FT.
OF SPACER SHALL BE PROVIDED FOR EACH
SPIRAL UNIT. THEY SHALL BE EQUALLY
SPACED ALONG PERIPHERY OF COIL.
WEIGHT OF SPACERS, AT 0.80 LB. PER
LIN. FT. WILL BE PAID FOR AS
REINFORCING STEEL AND IS INCLUDED IN
TABULATED WEIGHT.

Bardimensions are out to out.

Refer to CMS Sections 106.03,700, 109.01 through 109.05 and 109.08. 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.

BAR SIZE DESIGNATION

BAR SIZE IS INDICATED IN THE BAR MARK.
THE FIRST DIGIT WHERE FOUR DIGITS ARE
USED, AND FIRST TWO DIGITS WHERE FIVE
DIGITS ARE USED, INDICATE THE BAR SIZE
NUMBER. FOR EXAMPLE, A7001 IS A NO. 7
SIZE BAR AND A10140 IS A NO. 10 SIZE.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
CLEVELAND, OHIO COLUMBUS, OHIO WHEELING, W. VA.

REINFORCING STEEL LIST

BRIDGE № LOR-80-1903

E.B. I-80 OVER CHESTNUT RIDGE

ROAD

LORAIN COUNTY

STA. 40+78.23 STA. 42+19.69

