







# GENERAL SUMMARY

FED RD DIVISION	STATE	PROJECT	4 38
5	OHIO		

**PART 24** MAH-76-0604 (IR)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 25** MAH-76-0606 (IR)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 26** POR-59-0605 (STATE ONLY)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 27** TRU-5-0657 R (STATE ONLY)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 28** TRU-82-0524 (SR)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 29** TRU-534-2145 (SR)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-SURFACE PREPARTION  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-FULL PRIME-SYSTEM A  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE EPOXY INTERMEDIATE COAT  
 SPECIAL LUMP FIELD PAINTING OF EXISTING STEEL-COMPLETE COAT FINISH-SYSTEM A

**PART 30** MAH-76-0091 L & R (STATE ONLY)  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 SPECIAL LUMP SURFACE PREPARTION (AS PER PLAN)  
 SPECIAL LUMP SPOT COAT (AS PER PLAN)  
 SPECIAL LUMP FINISH COAT (AS PER PLAN)  
 SPECIAL LUMP POLLUTION CONTROL (AS PER PLAN)  
 SPECIAL LUMP BOAT FOR INSPECTION (AS PER PLAN)

**PARTS 1 THROUGH 30**  
 ITEM APPROX. QUANT. ITEM DESCRIPTION  
 624 LUMP MOBILIZATION  
 614 LUMP MAINTAINING TRAFFIC  
 SPECIAL 200 HR. UNIFORMED POLICE OFFICER WITH PATROL CAR  
 103.05 LUMP PREMIUM FOR CONTRACT PERFORMANCE BCND AND FOR PAYMENT BOND

# GENERAL NOTES

FED RD DIVISION	STATE	PROJECT	5 38
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PLANS BP-17-84

## 1. PAINTING OF BRIDGE APPURTENANCES

FOR PART NO'S 1 THRU 29, AN ESTIMATED QUANTITY OF 5051 TONS OF STRUCTURAL STEEL HAS BEEN CALCULATED FROM ORIGINAL CONSTRUCTION PLANS (SEE #4 BELOW). THIS QUANTITY IS FOR THE PURPOSE OF ESTIMATION ONLY.

ALL STEEL BRIDGE RAILING (EXCEPT GALVANIZED RAILING) AND ALL STEEL SCUPPERS, DOWNSPOUTS, AND BULB ANGLES, SHALL BE CLEANED, PRIMED, AND PAINTED IN ACCORDANCE WITH SPECIFICATIONS. THIS CLEANING ITEM FOR STEEL SCUPPERS AND BULB ANGLES SHALL INCLUDE THE REMOVAL OF ALL DEBRIS SUCH AS GRAVEL AND DIRT WHICH HAVE COLLECTED IN THE AREAS TO BE PAINTED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR SURFACE PREPARATION, PRIME, INTERMEDIATE AND FINISH PAINTING FOR EACH BRIDGE.

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF OHIO DEPARTMENT OF TRANSPORTATION AND SPECIFICALLY TO THE ITEMS LISTED BELOW AS PROVIDED FOR IN THIS SECTION.

## 2. STATE SAFETY REQUIREMENTS

THE CONTRACTOR IS REQUIRED TO MEET THE APPLICABLE SAFETY REQUIREMENTS OF THE OHIO INDUSTRIAL COMMISSION.

## 3. COOPERATION OF CONTRACTOR

THE CONTRACTOR SHALL LEAVE HIS LADDERS, PLATFORMS OR SCAFFOLDS IN PLACE FOR A SUFFICIENT LENGTH OF TIME AND IN SUCH A MANNER TO PERMIT THE ENGINEER OR INSPECTOR TO SAFELY EXAMINE THE WORK PERFORMED.

## 4. PRIOR INSPECTION OF WORK

PROSPECTIVE BIDDERS ARE REQUIRED TO MAKE AN INSPECTION OF THE BRIDGES IN THE FIELD AND TO REVIEW THE PLANS AND SPECIFICATIONS BEFORE SUBMITTING BIDS. SEE SECTION 102.05 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS DATED JANUARY 1, 1983.

## 5. PROTECTION OF PERSONS AND PROPERTY

THE CONTRACTOR SHALL COLLECT, REMOVE AND DISPOSE OF ALL BUCKETS, RAGS, OR OTHER DISCARDED MATERIALS AND HE SHALL LEAVE THE JOB SITE IN A CLEAN CONDITION.

THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE STRUCTURE WHICH ARE NOT TO BE PAINTED, AGAINST DAMAGE OR DISFIGUREMENT BY SPLASHES, SPATTERS, SMIRCHES OF PAINT.

WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLIGENCE, OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR HE SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.

## 6. POLLUTION CONTROL

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COMPLY WITH POLLUTION CONTROL LAWS, RULES OR REGULATIONS OF FEDERAL, STATE OR LOCAL AGENCIES.

## 7. DATE PAINTED

THE COMPLETION DATE OF THE FINISH COAT OF PAINT, (MONTH AND YEAR) AND THE STRUCTURE FILE NUMBER SHALL BE STENCILED ON THE STRUCTURE, AS DIRECTED BY THE ENGINEER, IN A CONTRASTING COLOR. PAYMENT SHALL BE INCLUDED IN LUMP SUM BID PRICE FOR ITEM SPECIAL - FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT FINISH - SYSTEM A.

## 8. COOPERATION WITH RAILROADS

THE CONTRACTOR SHALL COOPERATE AT ALL TIMES WITH THE LOCAL OFFICIALS OF THE RAILROAD COMPANY. HE SHALL USE ALL REASONABLE CARE AND DILIGENCE IN THE WORK IN ORDER TO AVOID ACCIDENTS, DAMAGE OR INTERFERENCE WITH THE TRAINS OR OTHER PROPERTY OF THE RAILROAD. THE CONTRACTOR SHALL NOTIFY THE LOCAL OFFICIALS OF THE RAILROAD PRIOR TO STARTING WORK THAT MAY AFFECT RAILROAD PROPERTY AND FACILITIES AND SHALL PAY THE RAILROAD COMPANY THE COST OF THE FLAGMEN FURNISHED BY THE RAILROAD COMPANY AND MADE NECESSARY BECAUSE OF ANY OF THE CONTRACTORS' OPERATIONS OVER OR ADJACENT TO THE TRACKS.

NO SCAFFOLD, PLANKS OR OTHER EQUIPMENT SHALL BE SUSPENDED OR ERECTED ABOVE OR WITHIN 10 FEET OF A RAIL OVER WHICH TRAINS ARE OPERATING WITHOUT PRIOR WRITTEN APPROVAL OF THE CHIEF ENGINEER, OR HIS AUTHORIZED REPRESENTATIVE, OF THE RAILROAD COMPANY.

FAILURE TO NOTIFY THE RAILROAD COMPANY AS NOTED ABOVE SHALL BE CAUSE FOR STOPPING WORK UNTIL ALL PROVISIONS FOR PROTECTING RAILROAD PROPERTY HAVE BEEN PROVIDED.

## 9. LIMITATIONS

NOTE: DUE TO THE LARGE NUMBER OF BRIDGES TO BE PAINTED ON THIS PROJECT, THE CONTRACTOR SHALL NOT WORK ON MORE THAN TWO (2) BRIDGES AT ONE TIME. ALL WORK SHALL BE COMPLETED ON THE TWO BRIDGES PRIOR TO THE BEGINNING OF WORK ON THE NEXT TWO BRIDGES.

## 10. PROVISIONS - SYSTEM A

- A. MATERIAL-ALL PAINT SHALL CONFORM TO 708 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE EXCEPTION OF THE INTERMEDIATE EPOXY TIE COAT.
- B. GENERAL-THE SURFACES TO BE PAINTED SHALL BE CLEAN AND DRY. PAINT SHALL NOT BE APPLIED IN RAIN, SNOW, FOG OR MIST, OR TO FROSTED OR ICE-COATED SURFACES. TEMPERATURE AND HUMIDITY SHALL BE AT LEVELS TO CAUSE A CLEARLY DEFINED THIN FILM OF WATER PLACED WITH A DAMP CLOTH UPON THE SURFACE TO BE PAINTED TO EVAPORATE WITHIN 15 MINUTES, OR THE RELATIVE HUMIDITY SHALL BE LESS THAN 85 PERCENT.
- C. BEFORE ANY WORK AT EACH BRIDGE SITE BEGINS, THE CONTRACTOR SHALL DEMONSTRATE TO THE INSPECTOR HIS ABILITY TO PROVIDE THE REQUIRED SURFACE PREPARATION. THIS WILL BE ACCOMPLISHED ON A SMALL AREA OF THE BRIDGE NEAR ONE ABUTMENT. THE APPEARANCE OF THE BLAST CLEANED DEMONSTRATION AREA SHALL BE COMPARED TO THE COLOR PICTORIALS MENTIONED ON SHEET 6. THE WORK WILL NOT PROCEED UNTIL THE INSPECTOR IS ASSURED THAT THE CONTRACTOR CAN MEET THESE REQUIREMENTS. AT THAT TIME, WORK CAN PROCEED AND THE CONTRACTOR IS EXPECTED TO CLEAN THE REMAINDER OF THE BRIDGE TO THE SAME DEGREE AS THE DEMONSTRATION AREA.
- D. THE PAINT SHALL BE APPLIED WHEN THE AMBIENT TEMPERATURE AND THE SURFACE TO BE PAINTED ARE 40F OR HIGHER; IT SHALL BE APPLIED BY SPRAY METHODS EXCEPT THAT SMALL TOUCH-UP AREAS MAY BE BRUSHED.

# GENERAL NOTES

FED RD DIVISION	STATE	PROJECT
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THE FOLLOWING GENERAL NOTES APPLY TO PARTS 1 THROUGH 29:

ITEM SPECIAL: SURFACE PREPARATION OF EXISTING STEEL (100% SA 2 1/2)

ALL HEAVY RUST AND SCALE SHALL FIRST BE REMOVED FROM SURFACES TO BE PAINTED BY CHIPPING AND SCRAPING. SCALING HAMMERS MAY BE USED TO REMOVE HEAVY RUST SCALE, BUT HEAVIER TYPE CHIPPING HAMMERS WHICH WOULD EXCESSIVELY SCAR THE METAL SHALL NOT BE USED.

ALL SURFACES TO BE PAINTED SHALL BE COMPLETELY BLAST CLEANED OF ALL EXISTING PAINT, RUST, ETC. TO NEAR WHITE METAL (SA 2 1/2) ACCORDING TO ASTM D 2200 OR SSPC-SP10. THE FINAL APPEARANCE OF THE BLASTED SURFACE SHALL BE EQUAL TO VISUAL STANDARDS SSPC-VIS 1 OR SWEDISH PICTORIAL D SA 2 1/2. THE PROFILE HEIGHT OF THE BLASTED SURFACE SHALL BE 2-3 MILS.

ABRASIVES USED FOR BLAST CLEANING SHALL BE EITHER CLEAN DRY SAND, STEEL SHOT, MINERAL GRIT, OR MANUFACTURED GRIT AND SHALL HAVE A GRADATION SUCH THAT THE ABRASIVE WILL PRODUCE A UNIFORM PROFILE.

ALL CLEANED SURFACES SHALL BE APPROVED BY THE INSPECTOR PRIOR TO PAINTING, AND PAINTING SHALL BE COMPLETED BEFORE THE CLEANED SURFACES HAVE DEGRADED FROM THE PRESCRIBED STANDARDS. IN EVERY CASE, BARE STEEL SURFACES EXPOSED DURING THE CLEANING OPERATION SHALL BE PRIME COATED THE SAME DAY.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - FULL PRIME - SYSTEM A

THE PRIME COAT SHALL CONSIST OF 708.17. SEVERELY PITTED AREAS OF STEEL OR PINHOLED AREAS OF PRIME COAT SHALL BE RECCATED IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS.

THE DRY FILM THICKNESS FOR THE PRIME COAT SHALL BE NOT LESS THAN 3.0 MILS NOR MORE THAN 10.0 MILS, EXCEPT THAT ON FAYING SURFACES OF BOLTED SPLICES THE THICKNESS SHALL NOT EXCEED 5.0 MILS. THICK FILMS SHALL BE REDUCED BY SCREENING, SANDING, OR SWEEPINGBLASTING. ANY RECOATING OF PRIME PAINT THAT HAS CURED LONGER THAN 24 HOURS SHALL BE DONE AS RECOMMENDED BY THE PAINT MANUFACTURER'S PRINTED INSTRUCTIONS.

IF "MUD CRACKING" OCCURS, THE AFFECTED AREA SHALL BE SCRAPED TO SOUNDLY BONDED PAINT AND THE AREA RECOATED.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - COMPLETE EPOXY INTERMEDIATE COAT

THE INTERMEDIATE COAT SHALL CONSIST OF A COMPLETE COAT OF A TWO COMPONENT EPOXY PAINT. MATERIAL SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

ITEM SPECIAL: FIELD PAINTING OF EXISTING STEEL - COMPLETE COAT FINISH - SYSTEM A

THE TOP COAT SHALL CONSIST OF 708.18 AND SHALL BE APPLIED BY SPRAY METHODS, EXCEPT THAT SMALL TOUCH-UP AREAS MAY BE BRUSHED. THE TOP COAT SHALL BE TINTED A COLOR WHICH IS APPROVED BY THE DISTRICT BRIDGE ENGINEER.

THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THIS ITEM.

NOTE: ALL THREE COATS OF PAINT ON EACH STRUCTURE SHALL BE SUPPLIED FROM ONE AND ONLY ONE MANUFACTURER. IN ORDER TO INSURE COMPATIBILITY OF THE COATS.

THE FOLLOWING GENERAL NOTES APPLY TO PARTS 1 THROUGH 30:

METHOD OF APPLICATION

ALL COATS SHALL BE APPLIED BY AIRLESS SPRAY METHOD. THE MANUFACTURER CAN SUPPLY SPECIFIC INFORMATION CONCERNING RECOMMENDED AIRLESS SPRAY EQUIPMENT. GENERALLY, THE AIRLESS SPRAY GUN SHALL BE HELD 8" - 10" FROM THE SURFACE AND AT A RIGHT ANGLE TO THE SURFACE. EACH SUCCESSIVE PASS OF THE GUN SHALL OVERLAP THE PREVIOUS PASS BY 50%. MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS ARE AVAILABLE THROUGH THE MANUFACTURER.

SPRAY APPLICATION SHALL PRODUCE A WET COAT AT ALL TIMES; THE DEPOSITION OF SEMIDRY PARTICLES SHALL BE AVOIDED.

ITEM 624 MOBILIZATION

THE CONTRACTOR SHALL ON ANY CONTRACT FOR WHICH HIS BID EXCEEDS \$50,000.00, INCLUDE AN AMOUNT TO COVER ANY APPLICABLE EXPENDITURES REFERRED TO UNDER ITEM 624 OF THE 1983 CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT SHALL BE THE LUMP SUM BID FOR ITEM 624, MOBILIZATION.

ITEM 614 MAINTAINING TRAFFIC

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WARNING AND REGULATORY SIGNS, LIGHTS, BARRICADES, PAVEMENT MARKING, AND ANY OTHER DEVICE NECESSARY TO MAINTAIN TRAFFIC AS INDICATED IN THE OHIO MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, CURRENT EDITION, LATEST REVISIONS. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

A FLASHING ARROW WILL BE USED AT ALL PARTS AS PER STANDARD DRAWING TC-35.10 DATED 10/5/77 PAGE C-20. PAYMENT FOR FLASHING ARROW SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM SPECIAL - UNIFORMED POLICE OFFICER WITH PATROL CAR

THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A SPECIAL DUTY UNIFORMED POLICE OFFICER WITH PATROL CAR FOR THE PURPOSE OF CONTROLLING THROUGH TRAFFIC. THE POLICE OFFICER WITH A PATROL CAR SHALL BE UTILIZED DURING INSTALLATION AND REMOVAL OF TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS AND AS REQUIRED BY THE ENGINEER. THE OFFICER SHALL CONSTANTLY MOVE WITH THE BACKUP OF TRAFFIC SO THAT HE IS ALWAYS IN POSITION NEAR THE END OF THE STOPPED TRAFFIC TO ASSIST IN CONTROLLING TRAFFIC, WARNING TRAFFIC OF THE RESTRICTION AND INFORMING DRIVERS AS TO THE NATURE OF THE DELAY.

PAYMENT FOR THE ABOVE SHALL BE ITEM SPECIAL - UNIFORMED POLICE OFFICER WITH PATROL CAR - 200 HOURS.

# GENERAL NOTES

FED RD DIVISION	STATE	PROJECT	
5	OHIO		7 38

THE FOLLOWING GENERAL NOTES SHALL APPLY TO PART 30 (MAH-76-0091 L & R):

ITEM SPECIAL: SURFACE PREPARATION (AS PER PLAN)

- (1) THE CONTRACTOR WILL HIGH PRESSURE WATER CLEAN (1800 PSI MINIMUM NOZZLE PRESSURE) ALL STRUCTURAL STEEL WHICH IS TO BE SANDBLASTED AND/OR PAINTED.
- (2) FOLLOWING THE WATER CLEANING OPERATION, THE CONTRACTOR WILL SPOT BLAST ALL RUSTED AREAS TO GRADE SA 2 1/2 AS DIRECTED BY THE PROJECT ENGINEER.

ITEM SPECIAL: SPOT COAT (AS PER PLAN)

ALL AREAS WHICH HAVE BEEN ~~PREVIOUSLY~~ SPOT BLASTED WILL BE SPOT COATED USING MOBIL'S ALUMAPOXY AT THE RATE OF FIVE (5) MILS DRY.

ITEM SPECIAL: FINISH COAT (AS PER PLAN)

THE CONTRACTOR WILL APPLY ONE COMPLETE COAT OF MOBIL'S ALUMAPOXY TO THE OUTSIDE OF ALL FOUR FASCIA GIRDERS (SEE DRAWING ON SHEET 37) AT THE RATE OF THREE (3) MILS DRY.

NOTE: BEFORE BEGINNING ANY WORK, THE CONTRACTOR WILL CONTACT THE FOLLOWING AGENCIES TO OBTAIN ANY WORK PERMITS WHERE APPLICABLE. THE CONTRACTOR WILL COMPLY TO ALL REGULATIONS, GUIDELINES AND RESTRICTIONS OF THESE AGENCIES:

1. CITY OF YOUNGSTOWN  
LAKE MILTON PARK & RECREATION DEPT.  
8155 GRANDVIEW RD.  
LAKE MILTON, OHIO 44429  
(216) 743-2891
2. OHIO EPA  
2110 E. AURORA RD.  
TWINSBURG, OHIO 44087  
LOCAL CONTACT: BOB WYSENSKI  
(216) 425-9171

ITEM SPECIAL: POLLUTION CONTROL (AS PER PLAN)

THE CONTRACTOR WILL PROVIDE EPA APPROVED FLOTATION DEVICES FOR THE PURPOSES OF CONTROLLING ANY WATER POLLUTION. FLOTATION DEVICES WILL BE PROVIDED, INSTALLED, AND MAINTAINED BY:

1. ENVIRONMENTAL POLLUTION CONTROL SERVICE, INC. (EPCS)  
250 N. CLEVELAND-MASSILLON RD.  
MONTROSE, OHIO 44313  
LOCAL CONTACT: KENNY GOSSARD  
(216) 867-8925
- OR 2. SAMSEL INDUSTRIES  
1285 OLD RIVER RD.  
CLEVELAND, OHIO 44113  
LOCAL CONTACT: BOB LEHMAN  
(216) 241-0333
- OR 3. MELADON ENVIRONMENTAL CONTROLS  
8569 BRECKSVILLE RD.  
BRECKSVILLE, OHIO 44141  
LOCAL CONTACT: DON SEWELL  
(216) 526-8202

THE FLOTATION DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING ANY WORK. NO WORK WILL BE PERFORMED OVER WATER WHICH IS NOT PROTECTED BY THE FLOTATION DEVICES. THE PAINTING CONTRACTOR WILL COORDINATE HIS WORK WITH THE COMPANY PROVIDING THE FLOTATION DEVICES. THE COST OF THIS WILL BE BORN BY THE CONTRACTOR.

NOTE: THE REMOVAL OF ANY ENTRAPMENTS WILL BE MADE BY THE SAME COMPANY WHO PROVIDES THE FLOTATION DEVICES. THIS SAME COMPANY WILL BE RESPONSIBLE FOR REMOVING THIS EQUIPMENT AFTER THE WORK IS COMPLETED.

ITEM SPECIAL: BOAT FOR INSPECTION (AS PER PLAN)

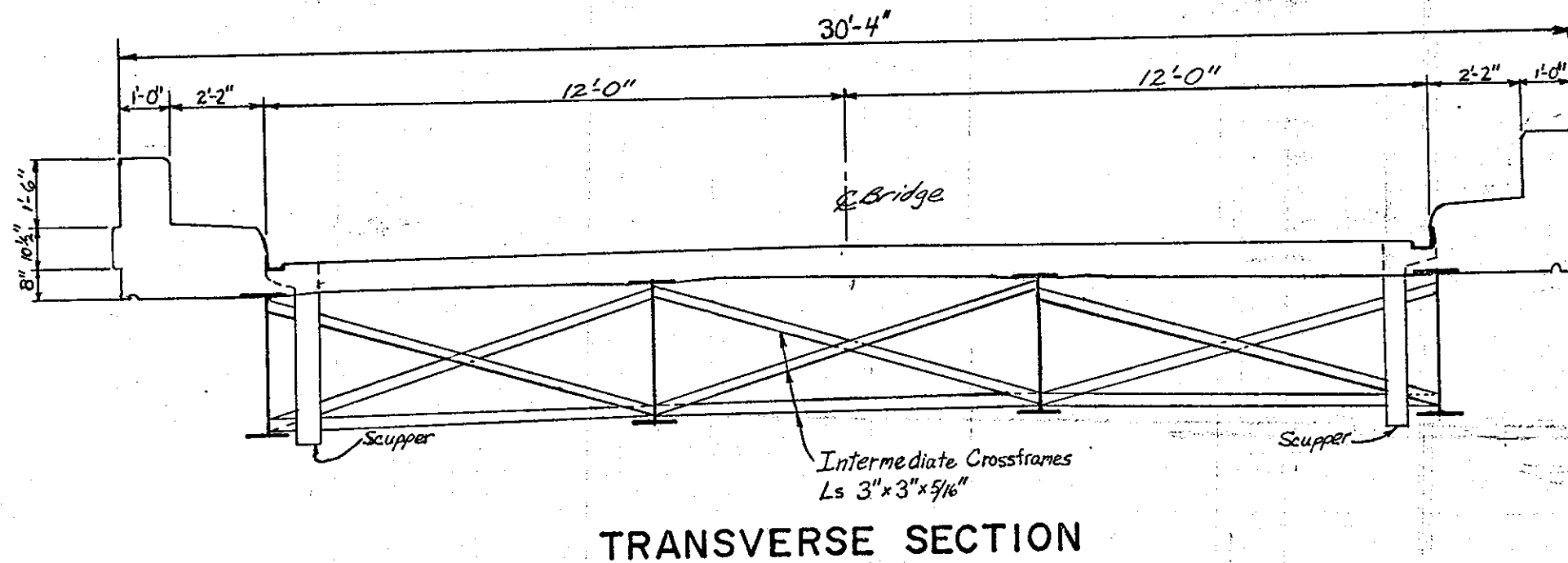
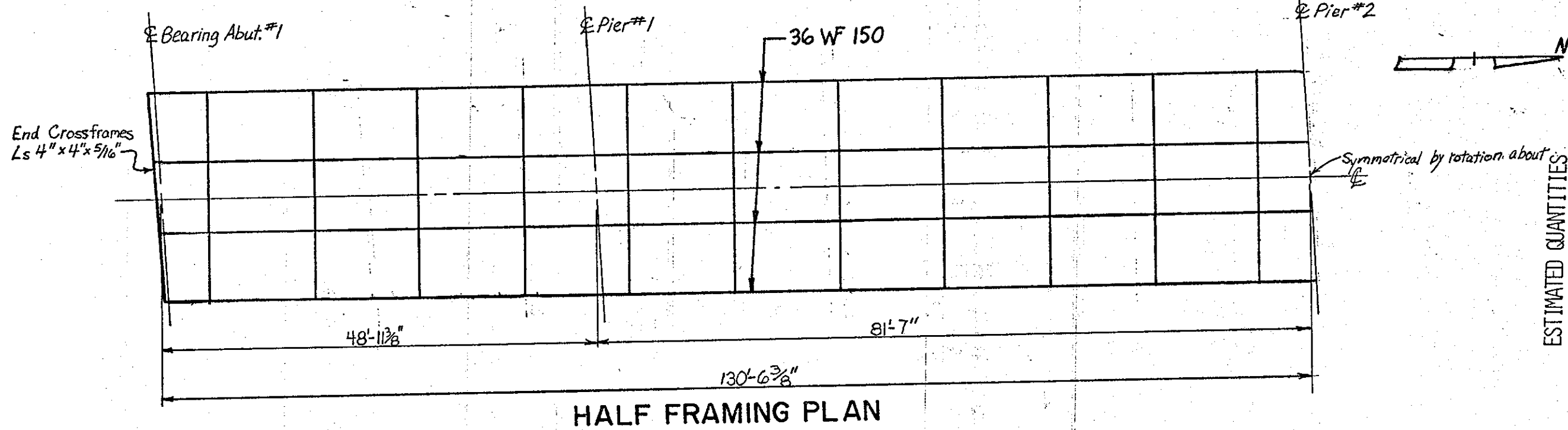
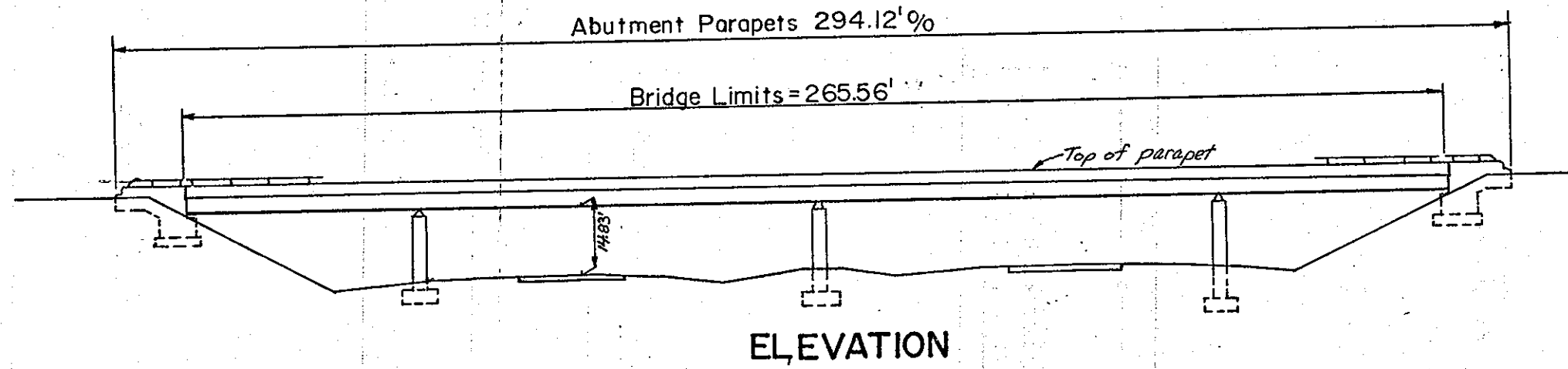
FOR THE PURPOSE OF INSPECTION AND SAFETY, THE CONTRACTOR WILL PROVIDE A NEW FOURTEEN (14) FEET BOAT & NEW TRAILER WITH A NEW 9.9 H.P. ENGINE FOR THE INSPECTOR. LIFE JACKETS SHALL BE PROVIDED FOR ALL OCCUPANTS OF THIS BOAT.

ALUMAPOXY CAN BE PURCHASED FROM:

MOBIL CHEMICAL COMPANY (VALSPAR CORPORATION)  
MAINTENANCE AND MARINE COATINGS DEPARTMENT  
901 NORTH GREENWOOD AVENUE  
KANKAKEE, ILLINOIS 60901  
(815) 933-5561  
LOCAL CONTACT: GEORGE LANGEVIN  
(419) 885-3269

PART I

PLAN NO.  
BP-17-84

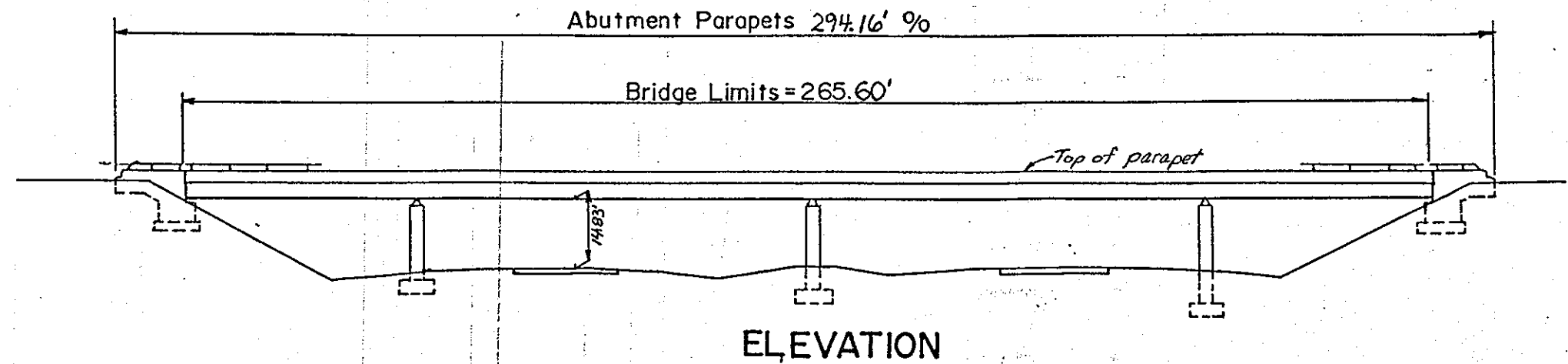


ESTIMATED QUANTITIES

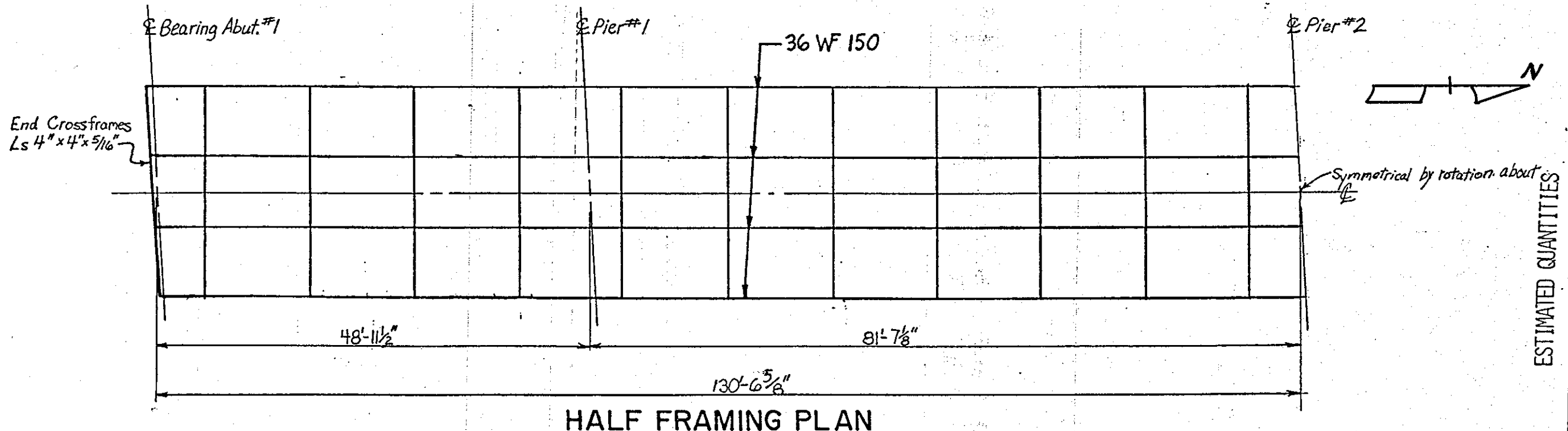
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME-SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>ATB-90-0137</b>	TYPE: Cont. Steel Beam
SFN: 0403601	LENGTH: 265.56'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
	RAIL: Aluminum
OVER: VAN PELT RD. (T.H. 135) over I-90	
WEIGHT OF STRUCTURAL STEEL: 197,761 lbs.	

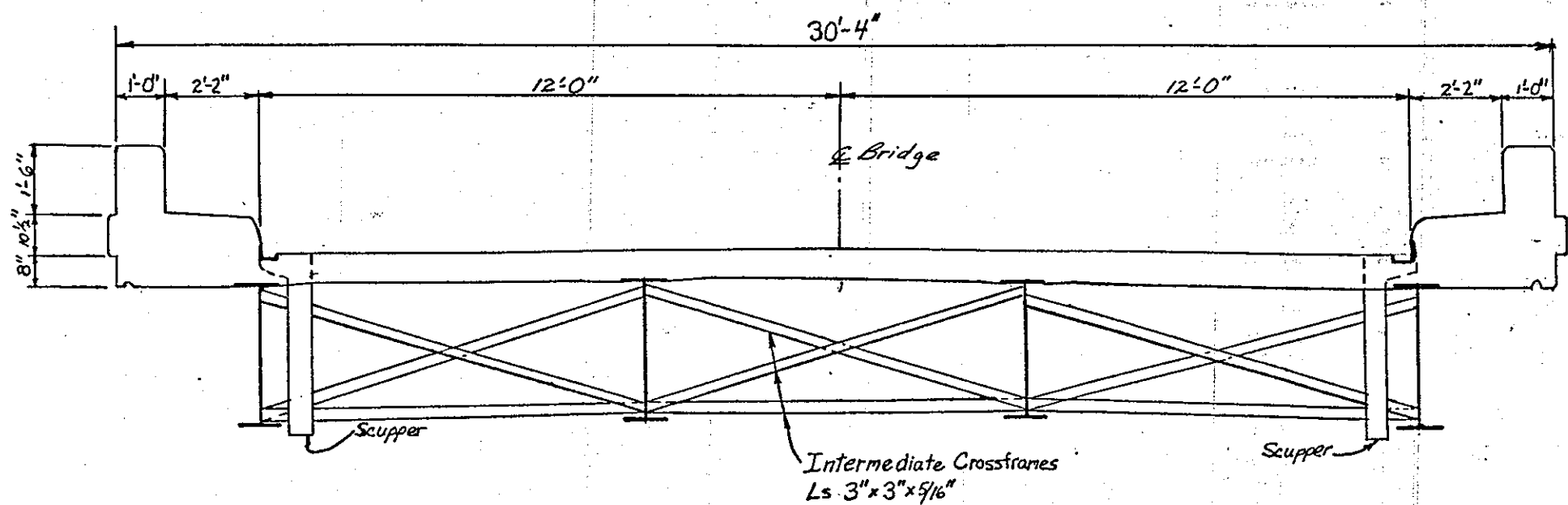




ELEVATION



HALF FRAMING PLAN

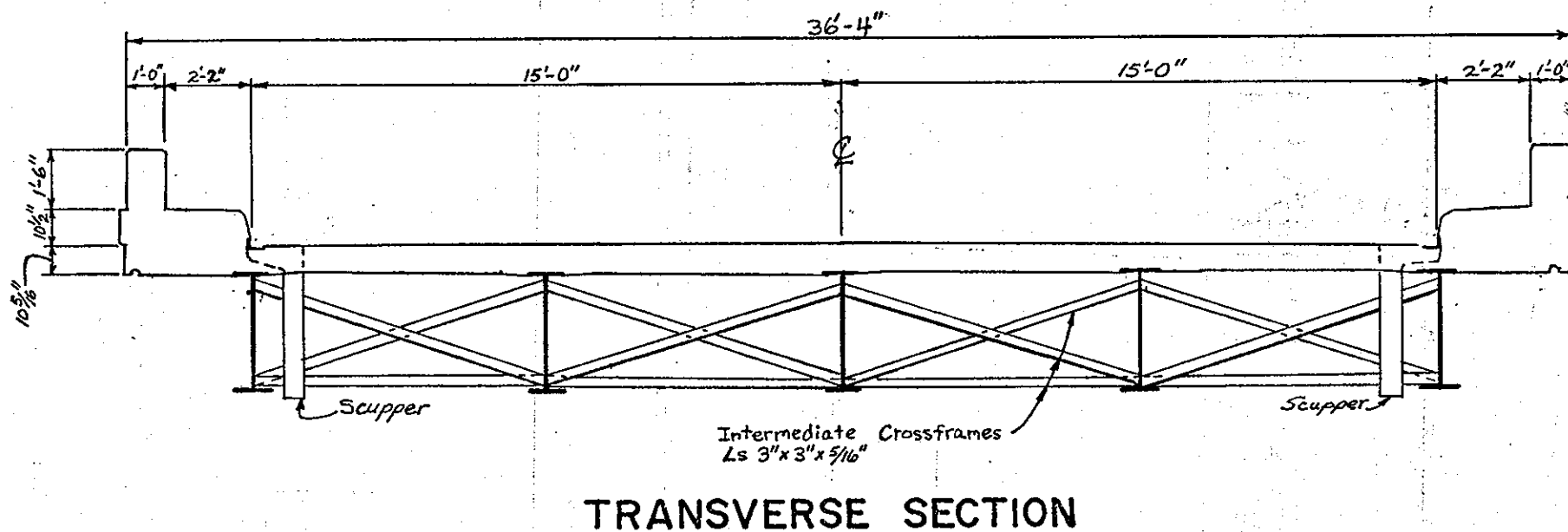
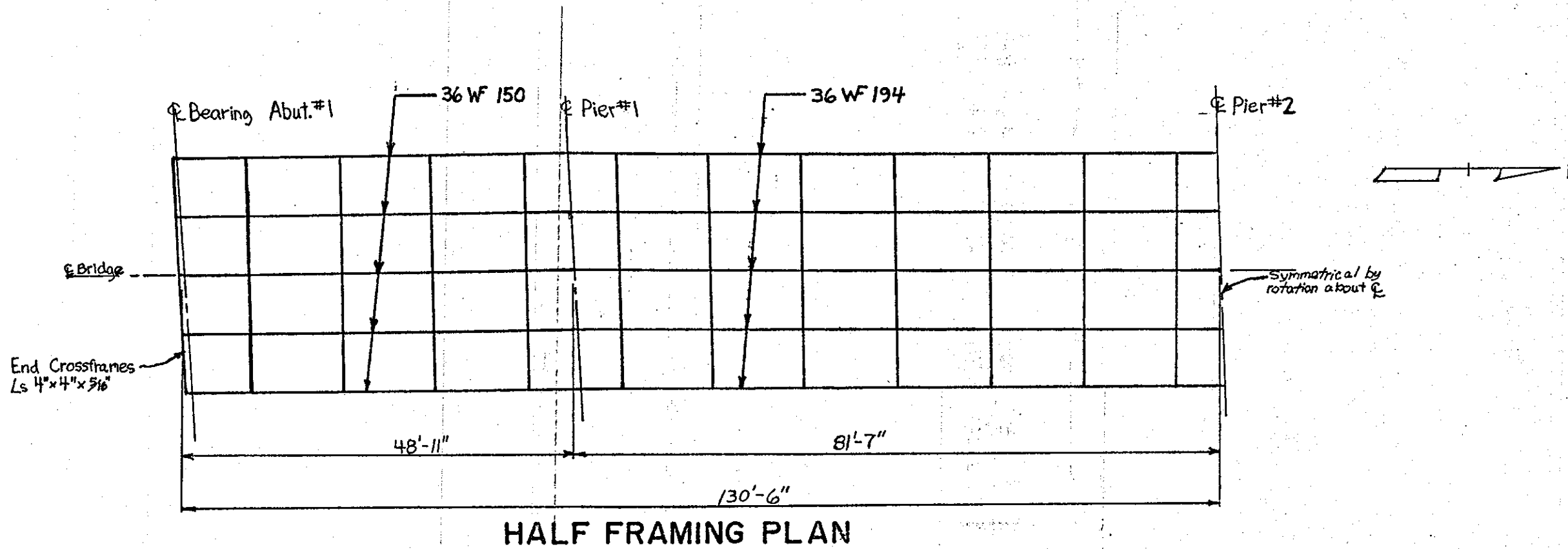
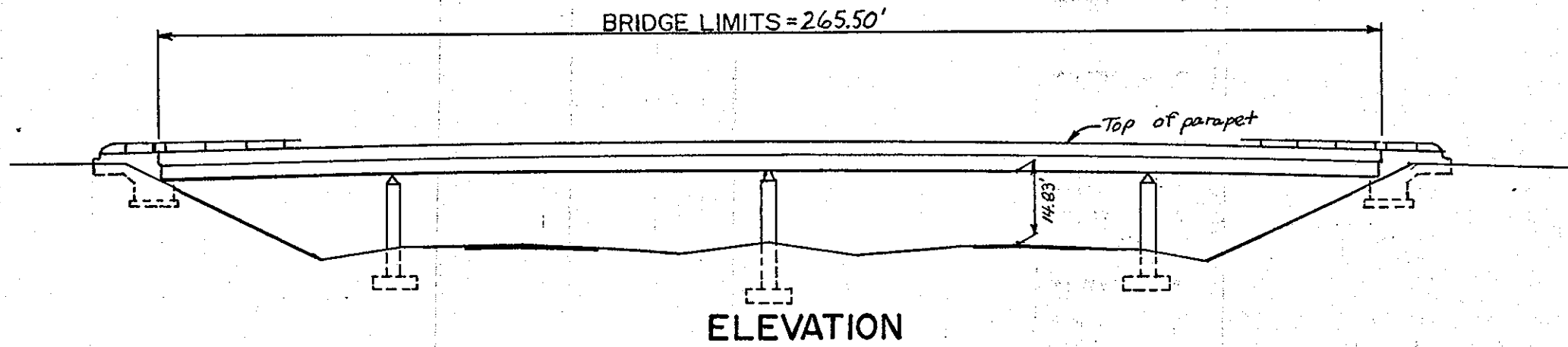


TRANSVERSE SECTION

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME-SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

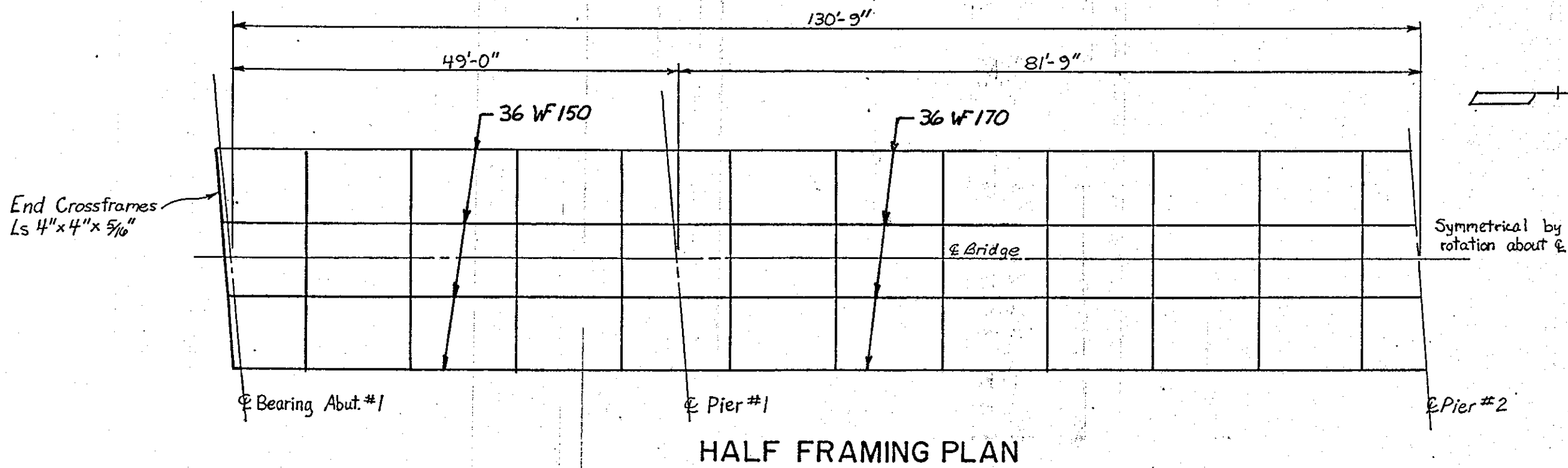
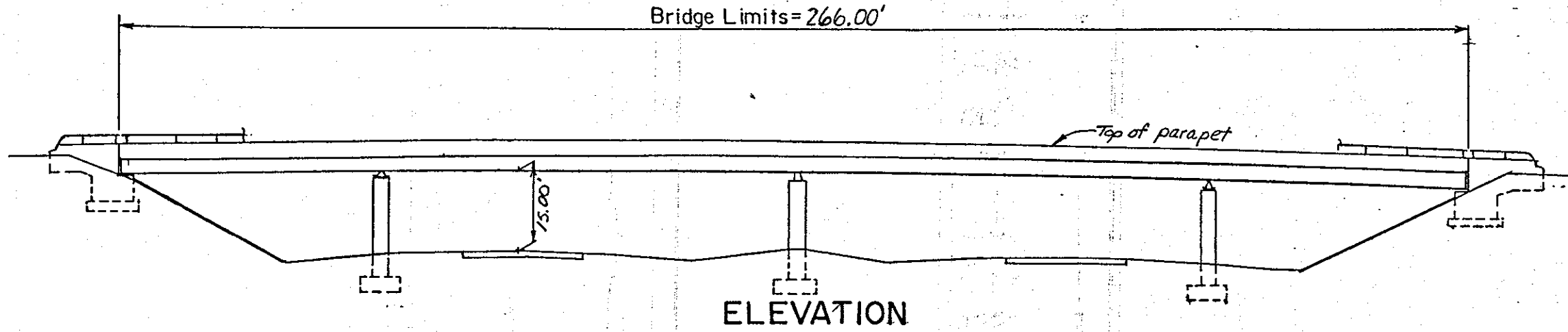
STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>ATB-90-0233</b>	TYPE: Cont. Steel Beam
SFN: 0403636	LENGTH: 265.60'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: LA FEVER RD. (T.H 136) over I-90	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 197,786 lbs.	



ESTIMATED QUANTITIES

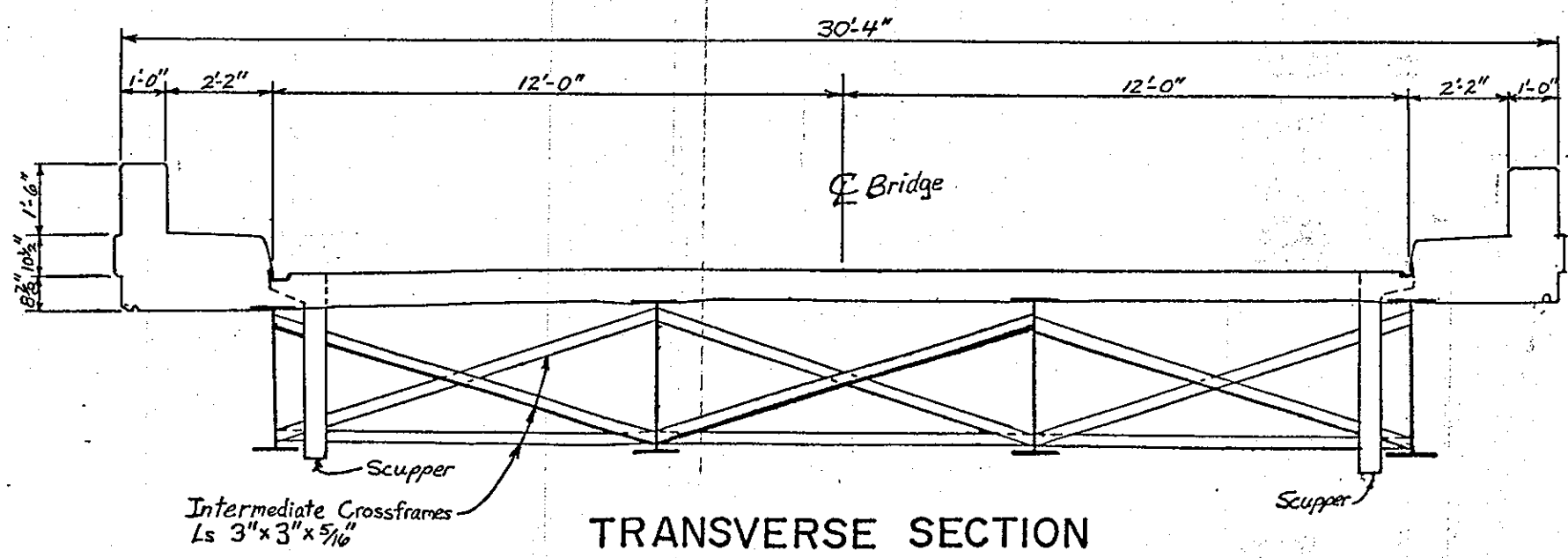
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-0295	TYPE: Cont. Steel Beam
SFN: 0407119	LENGTH: 265.50'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-90 under S.R. 534	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 301,145 lbs.	

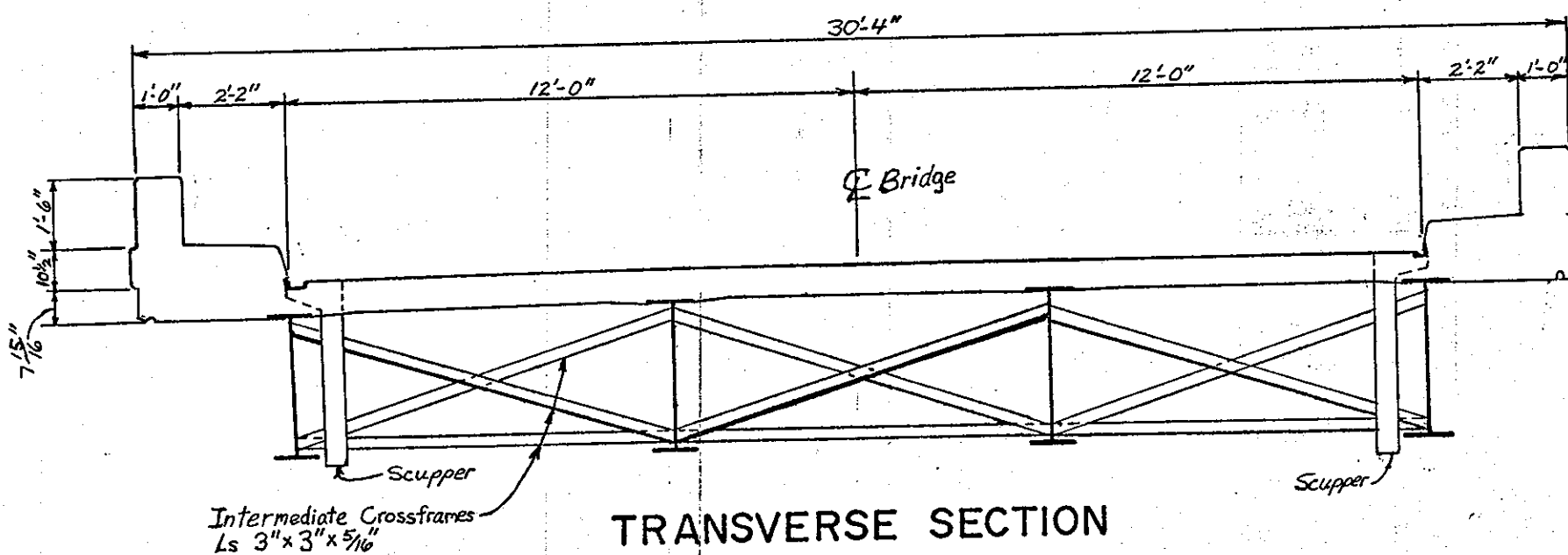
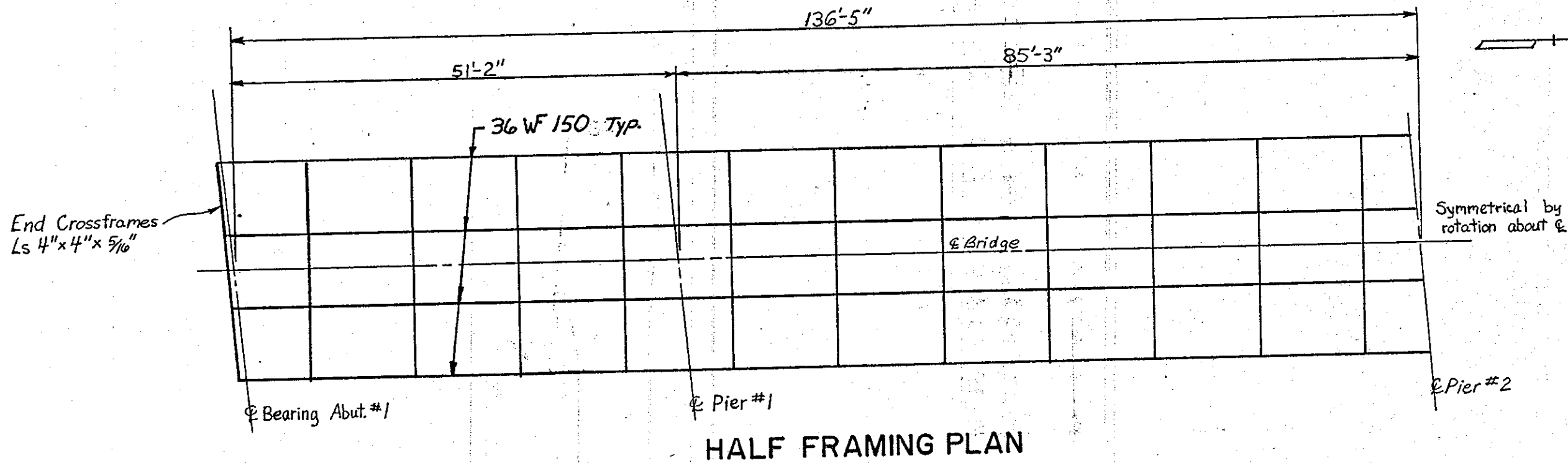
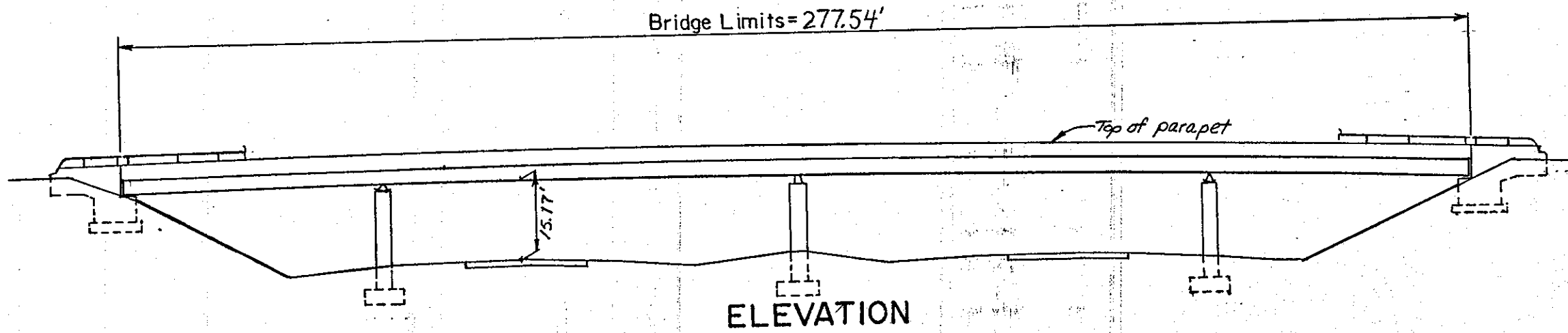


ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A



STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>ATB-90-0537</b>	TYPE: Cont. Steel Beam
SFN: 0403695	LENGTH: 266.00'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: SEXTON RD. (C.H. 218) over I-90	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 219,346 lbs.	



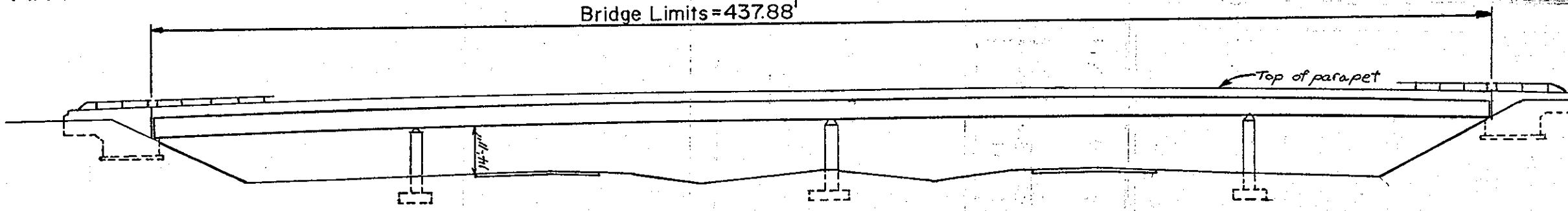
ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

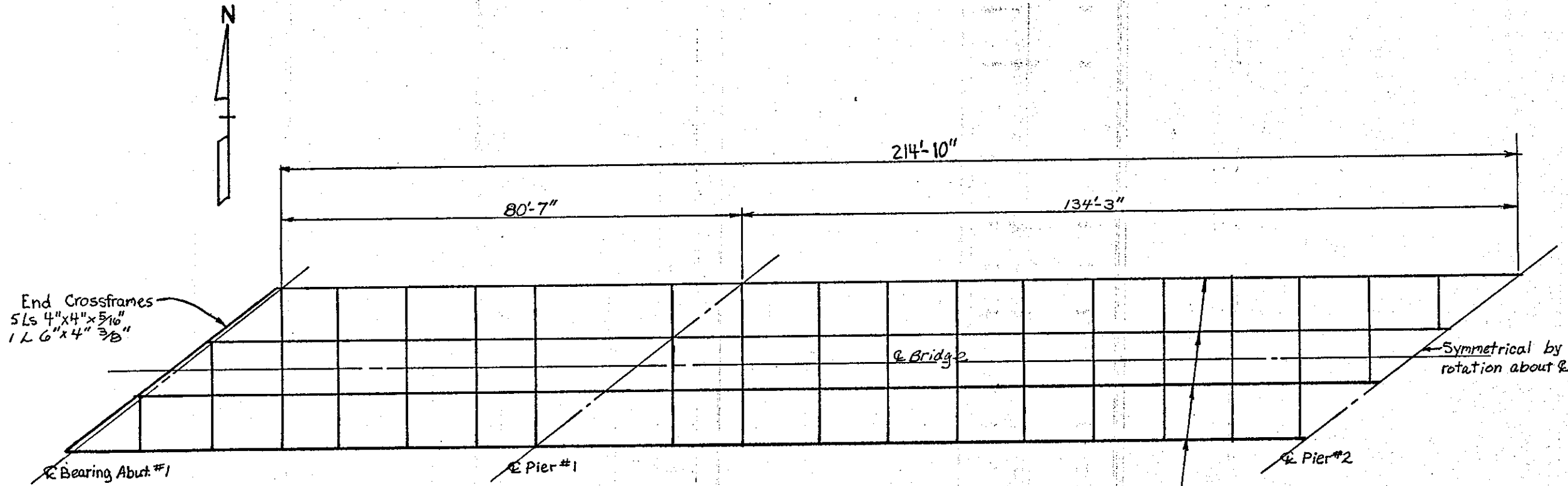
STRUCTURE DATA

COUNTY-ROUTE-SECTION <b>ATB-90-0618</b>	TYPE: Cont. Steel Beam
SFN: 0403725	LENGTH: 277.54'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: PELTON RD. (T.H. 229) over I-90	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 210,569 lbs.	

Bridge Limits = 437.88'



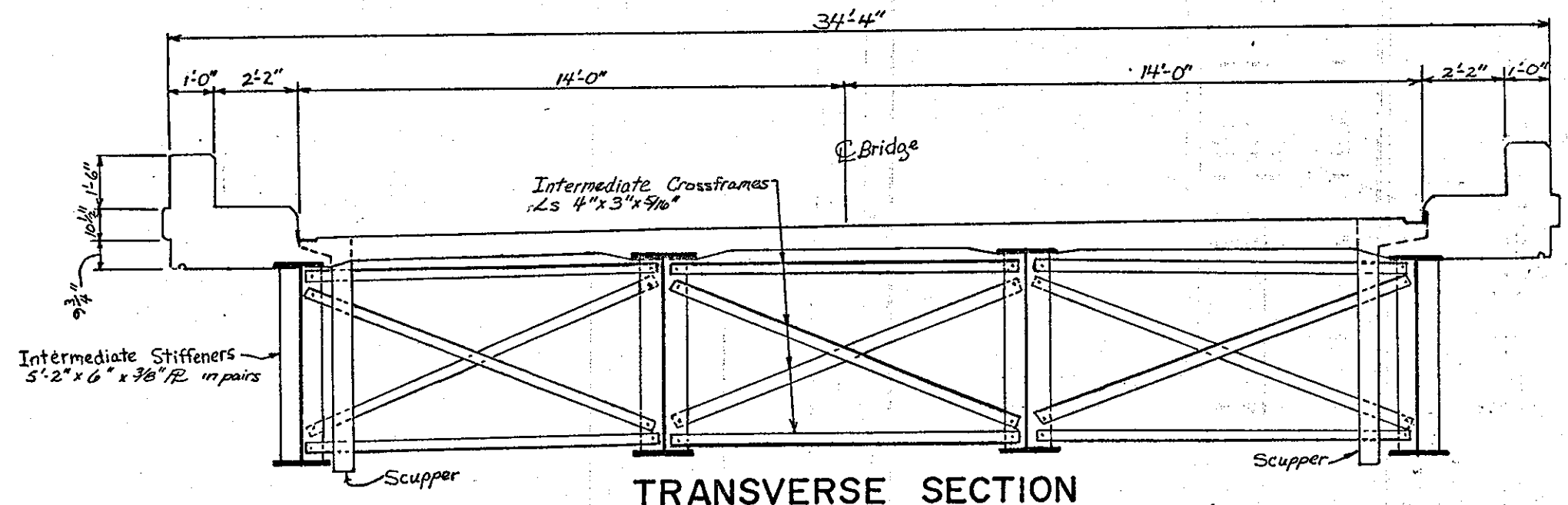
ELEVATION



HALF FRAMING PLAN

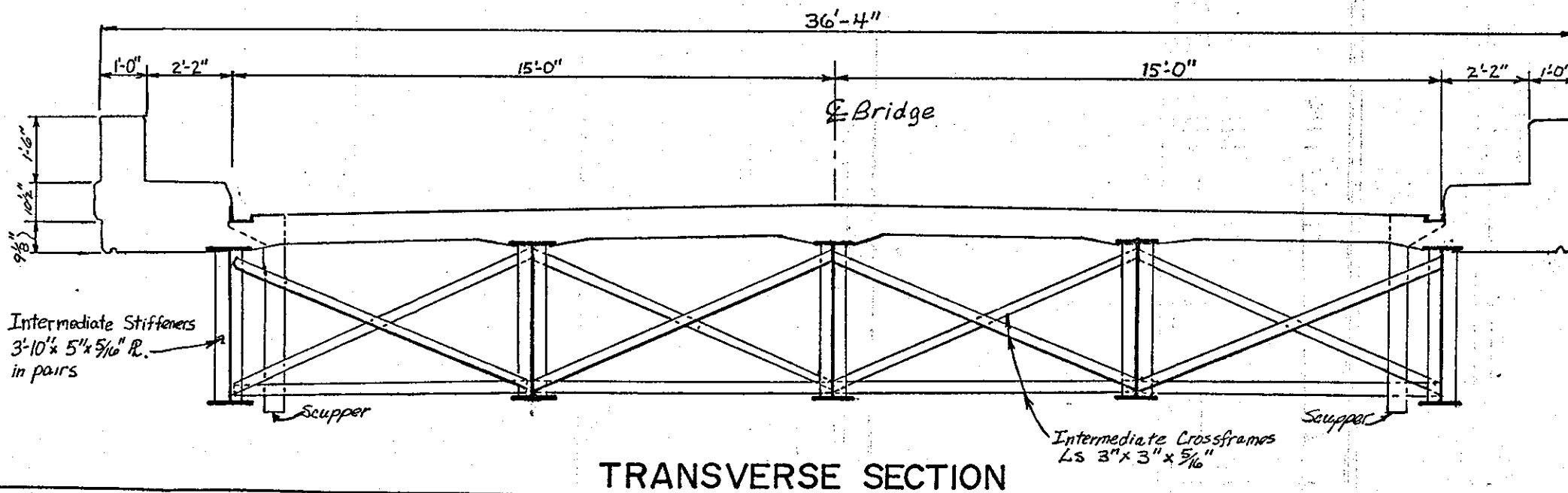
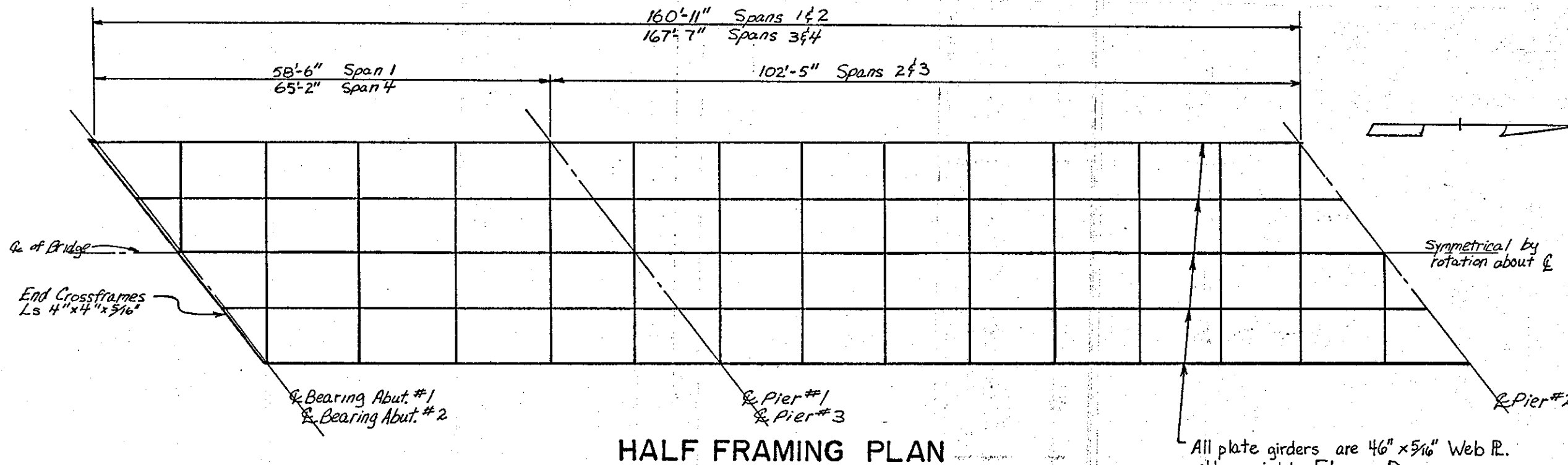
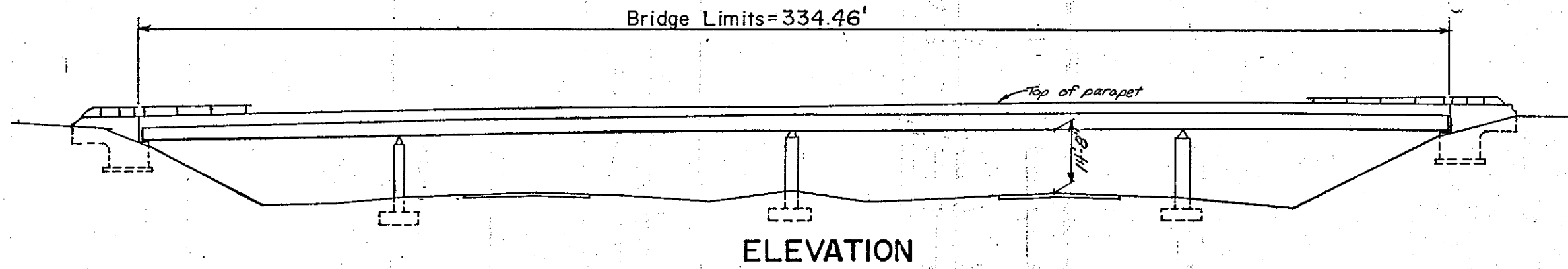
ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A



TRANSVERSE SECTION

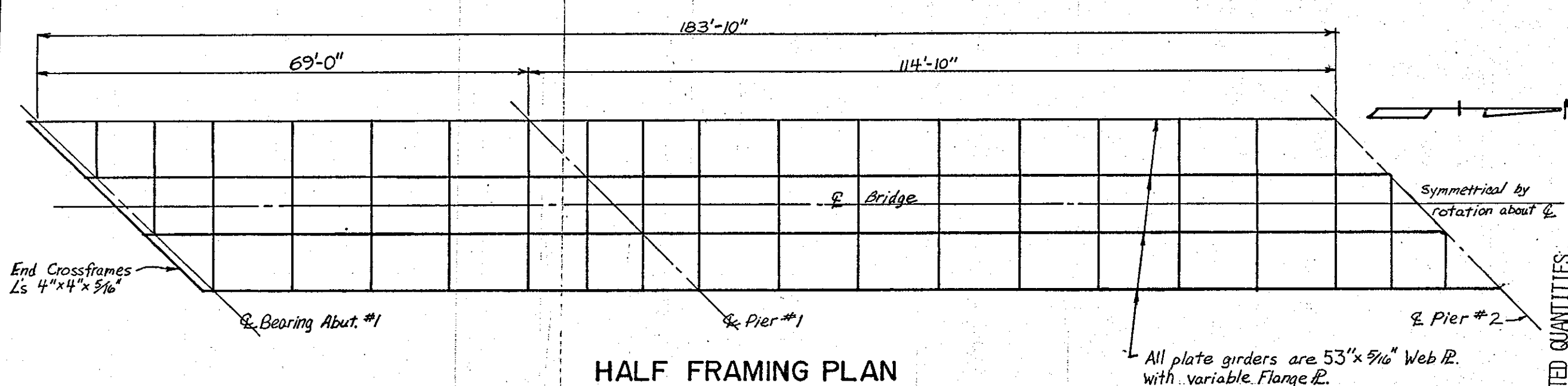
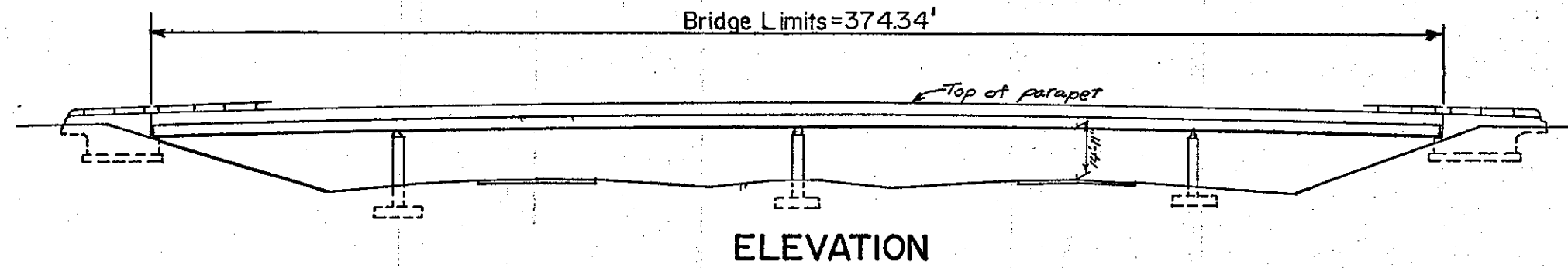
STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>ATB-90-0743</b>	TYPE: <b>Steel Girder</b>
SFN: <b>0403784</b>	LENGTH: <b>437.88'</b>
NO. OF SPANS: <b>4</b>	WIDTH: <b>28'-0" curb/curb</b>
OVER: <b>CLAY ST. (C.H. 16) over I-90</b>	RAIL: <b>Aluminum</b>
WEIGHT OF STRUCTURAL STEEL: <b>535,097 lbs.</b>	



ESTIMATED QUANTITIES

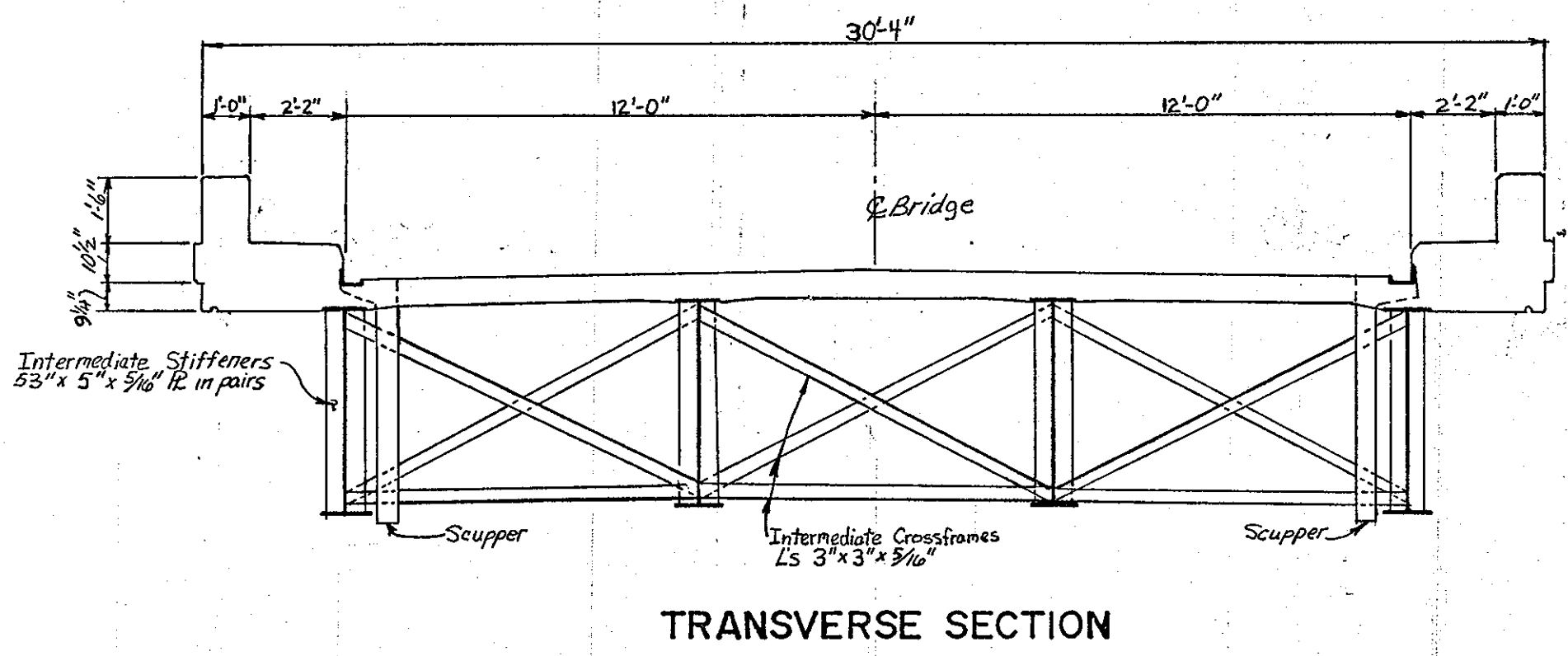
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-0799	TYPE: Steel Girder
SFN: 0402583	LENGTH: 334.46'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-90 under S.R. 45	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 377,785 lbs.	



ESTIMATED QUANTITIES:

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

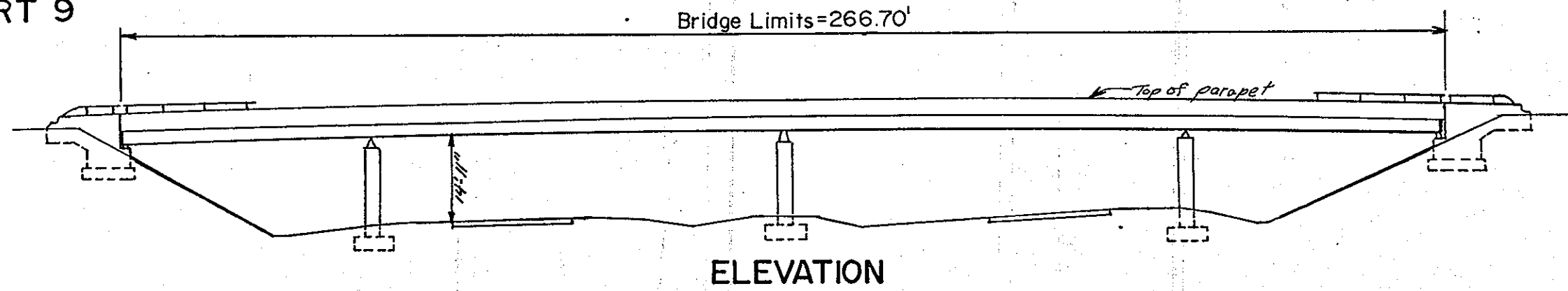


STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-1098	TYPE: Steel Girder
SFN: 0403962	LENGTH: 374.34'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: CHAPEL RD. (C.H. 199) over I-90	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 332,379 lbs.	

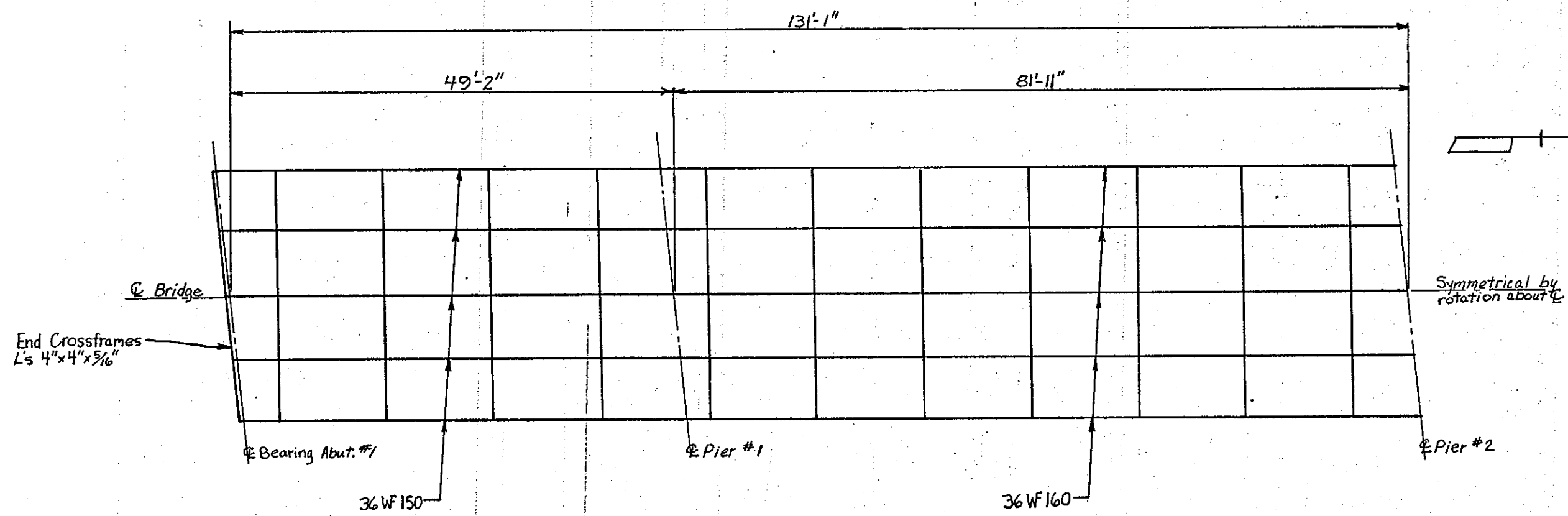
PART 9

16  
38

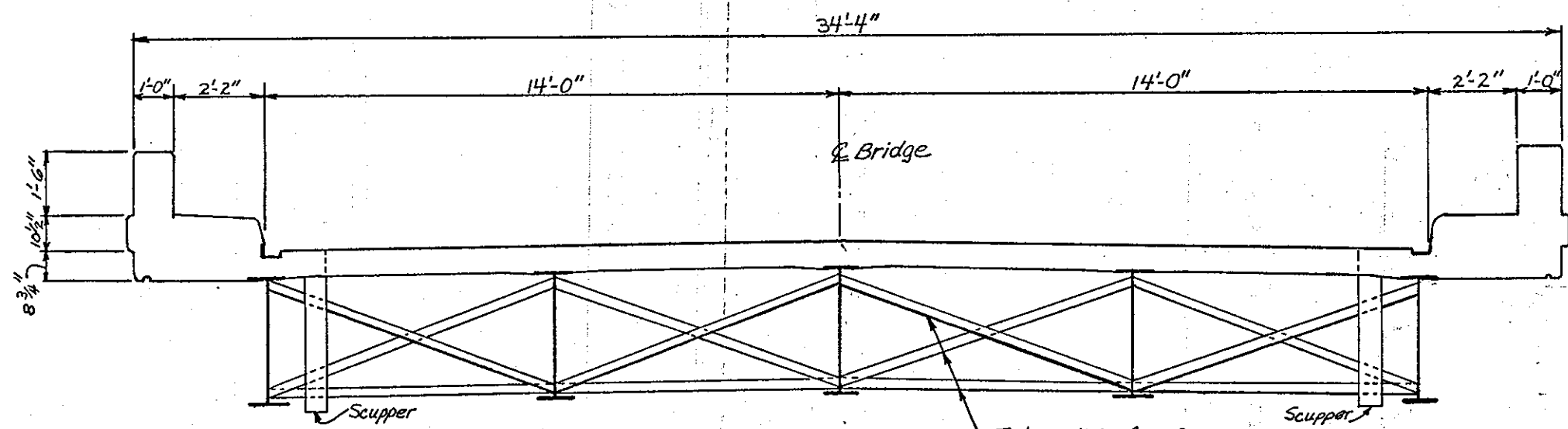
PLAN NO.  
BP-17-84



ELEVATION



HALF FRAMING PLAN



TRANSVERSE SECTION

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION	TYPE: Cont. Steel Beam
ATB-90-1262	LENGTH: 266.70'
SFN: 0403997	WIDTH: 28'-0" curb/curb
NO. OF SPANS: 4	RAIL: Aluminum
OVER: JEFFERSON RD. (C.H. 150) over I-90	
WEIGHT OF STRUCTURAL STEEL: 259,396 lbs.	

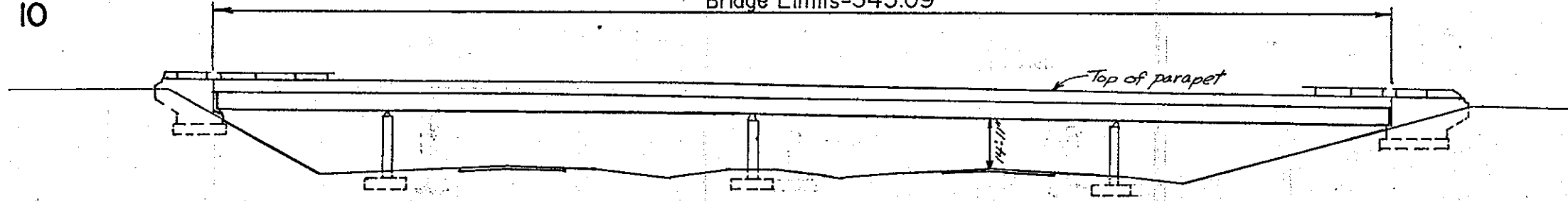


PART 10

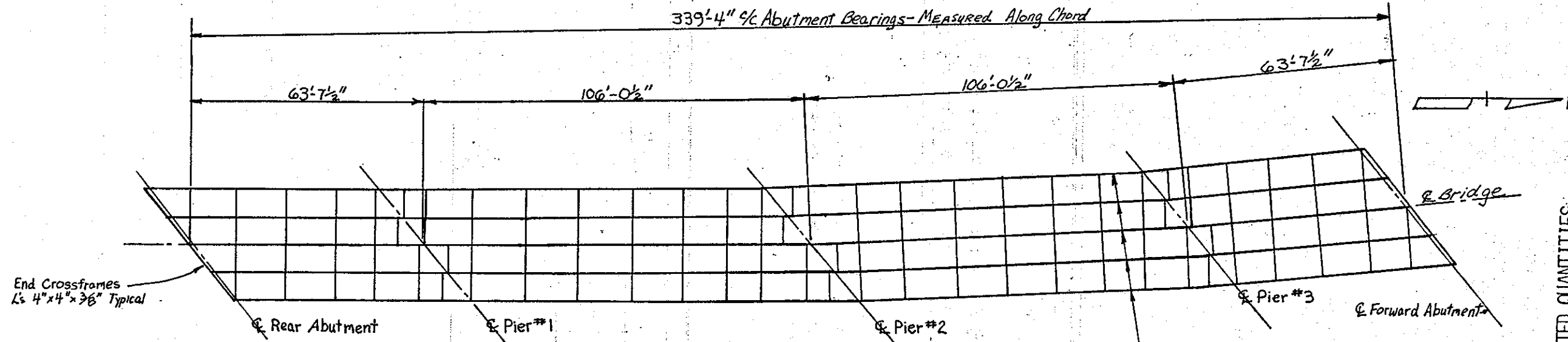
17  
38

PLAN NO.  
BP-17-84

Bridge Limits=345.09'



ELEVATION

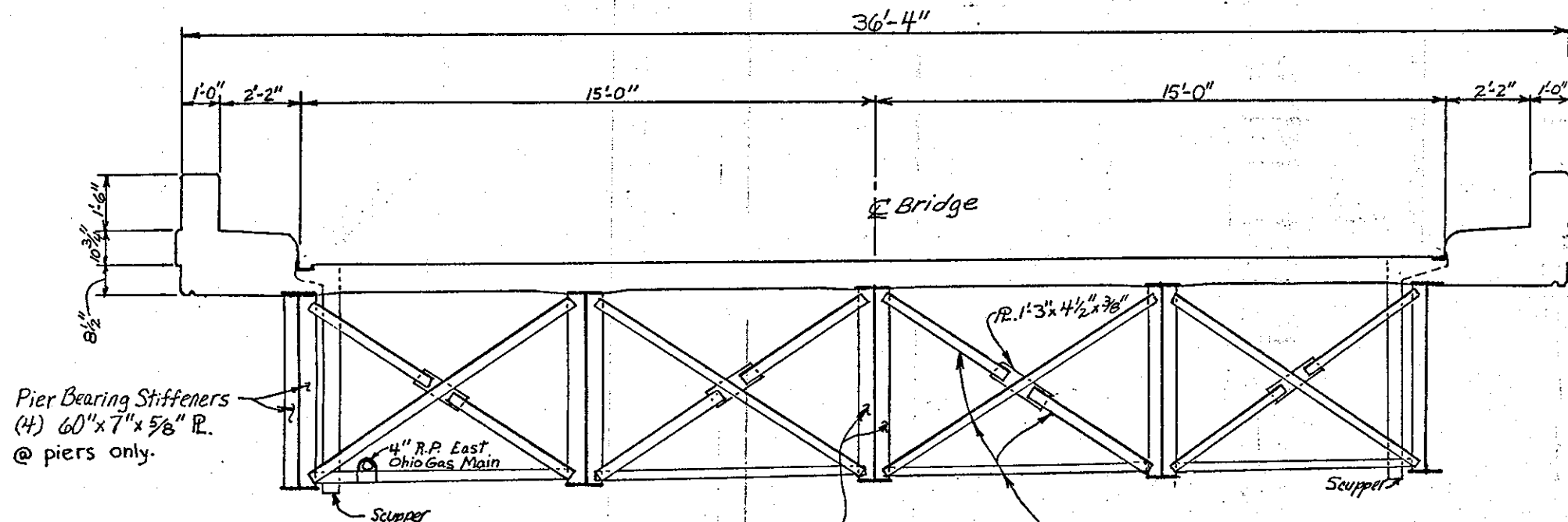


FRAMING PLAN

All beams are plate girders with 60"x3/8" Web R. & variable Flange R.

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A



TRANSVERSE SECTION

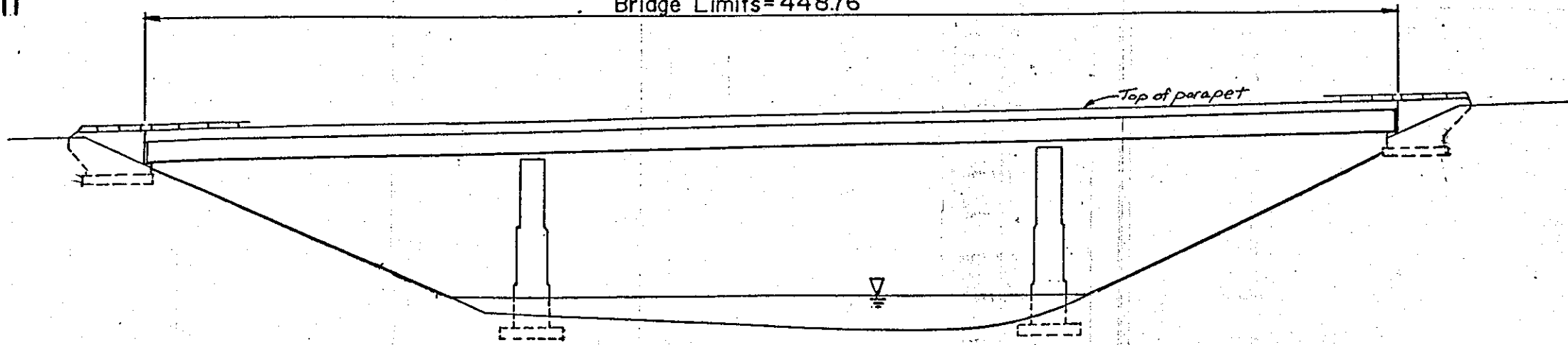
STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2010	TYPE: Steel Girder
SFN:0403458	LENGTH:345.09'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-90 under S.R. 84	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL:387,182 lbs.	

PART II

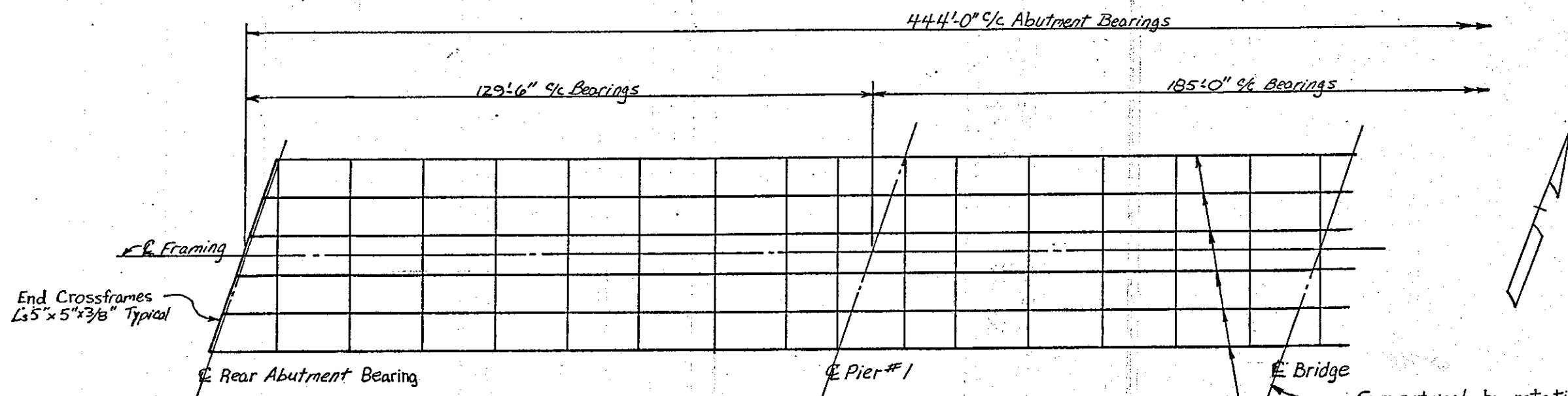
Bridge Limits = 448.76'

18  
38

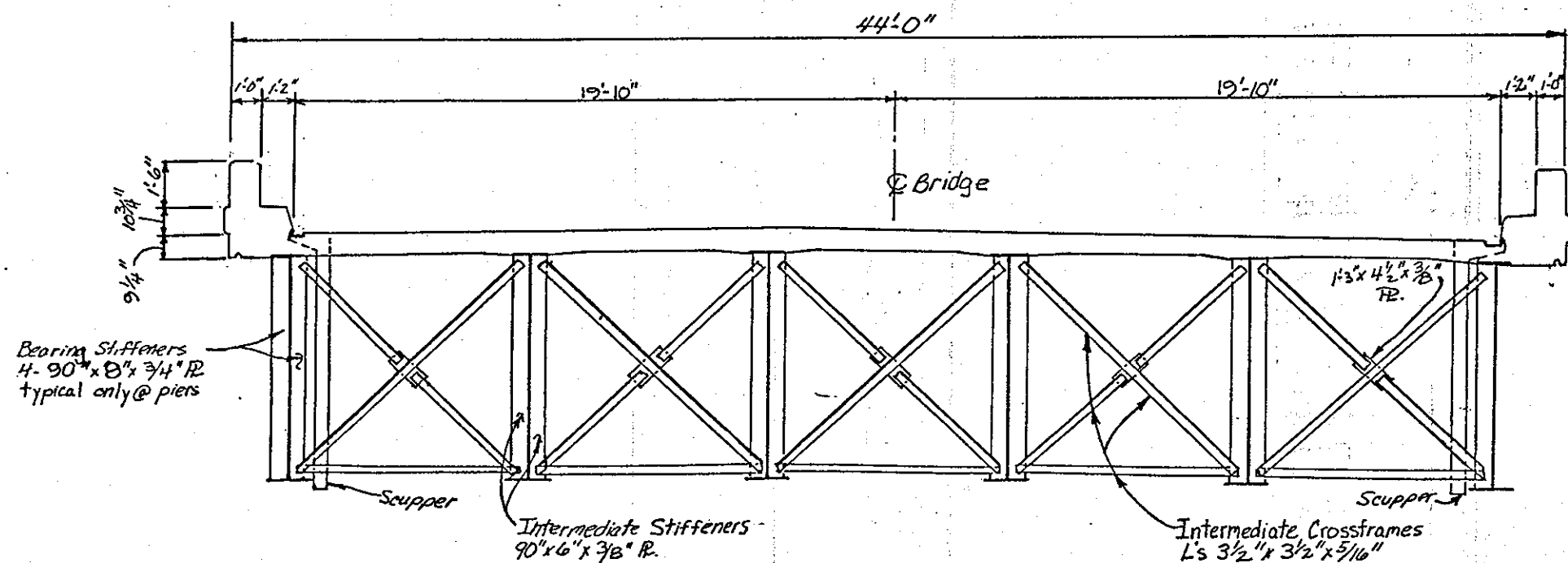
PLAN NO.  
BP-17-84



ELEVATION



HALF FRAMING PLAN



TRANSVERSE SECTION

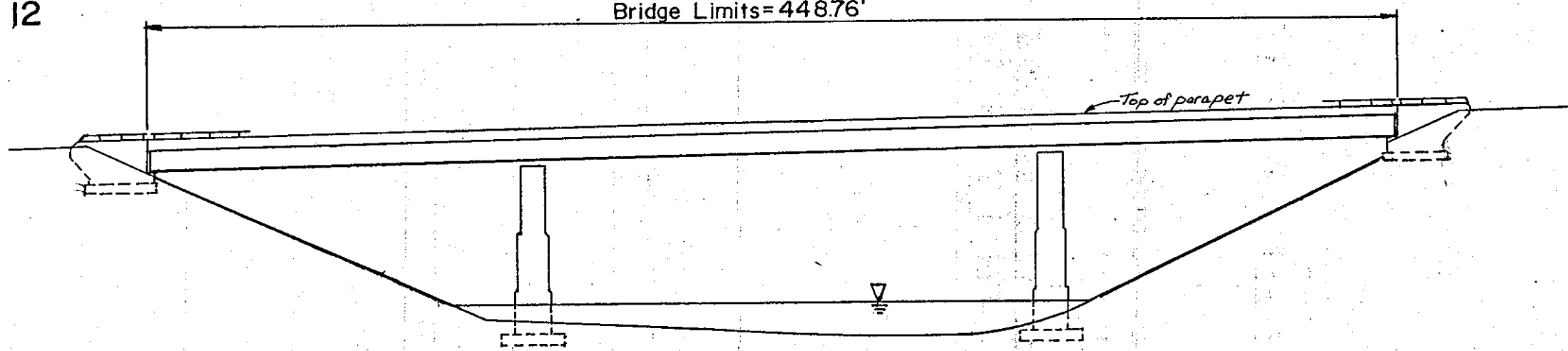
ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP COAT FINISH-SYSTEM A

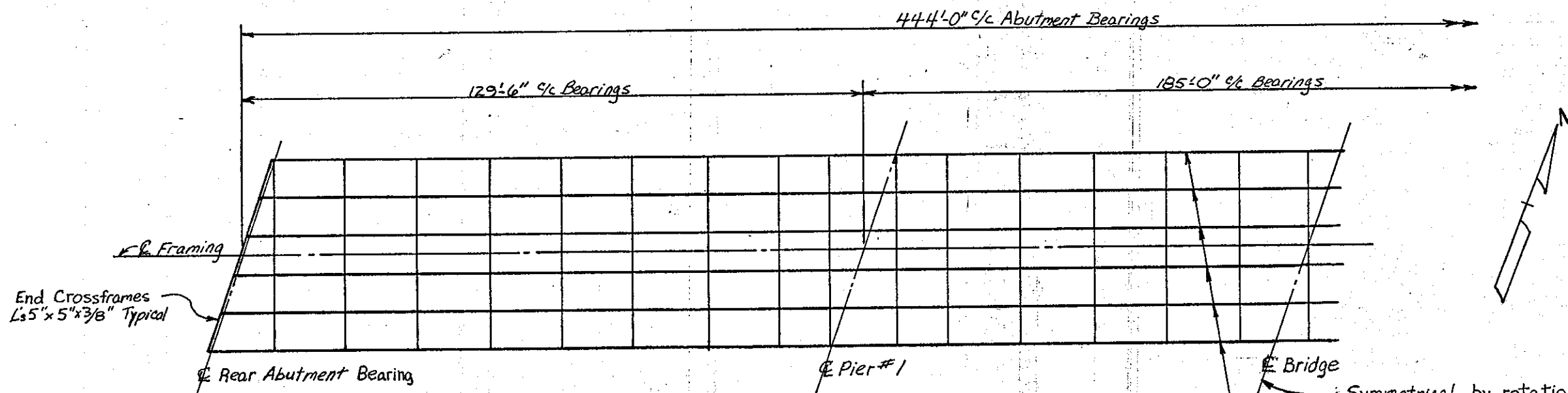
STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2172 L	TYPE: Steel Girder
SFN: 0404411	LENGTH: 448.76'
NO. OF SPANS: 3	WIDTH: 39'-8" curb/curb
OVER: CONNEAUT CREEK	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 1,044,543 lbs.	

Bridge Limits=448.76'

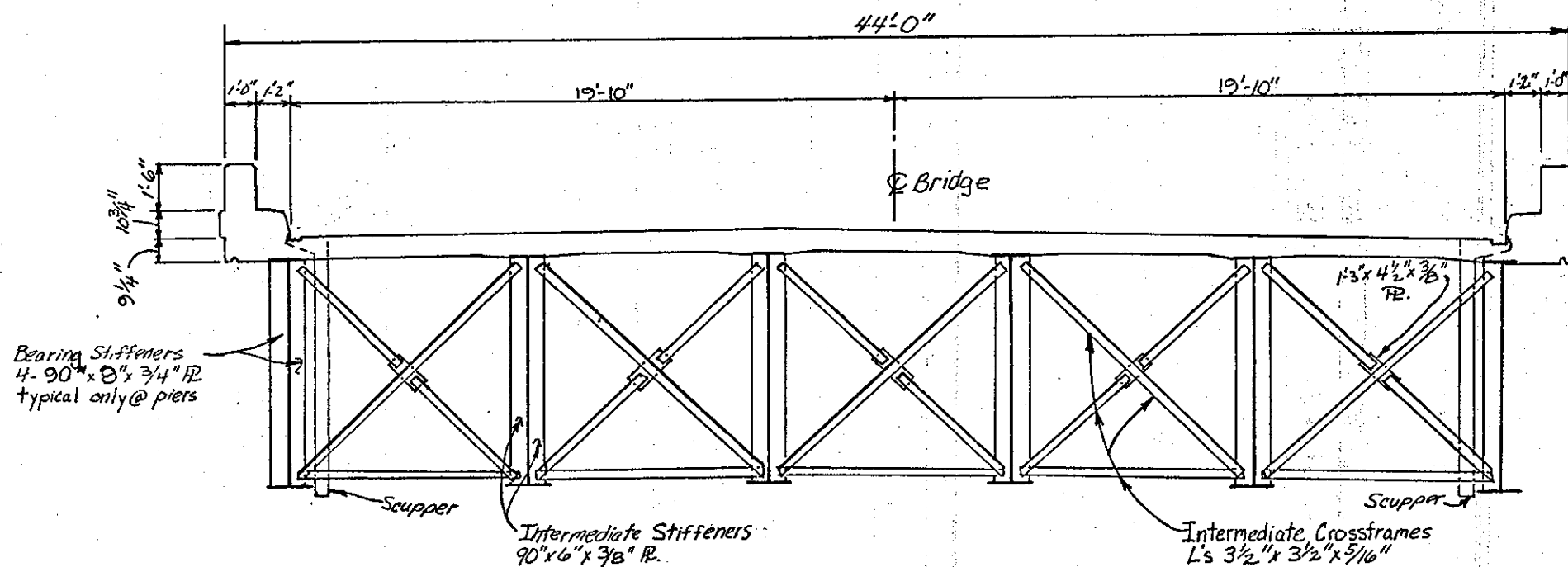
PLAN NO.  
BP-17-84



ELEVATION



HALF FRAMING PLAN

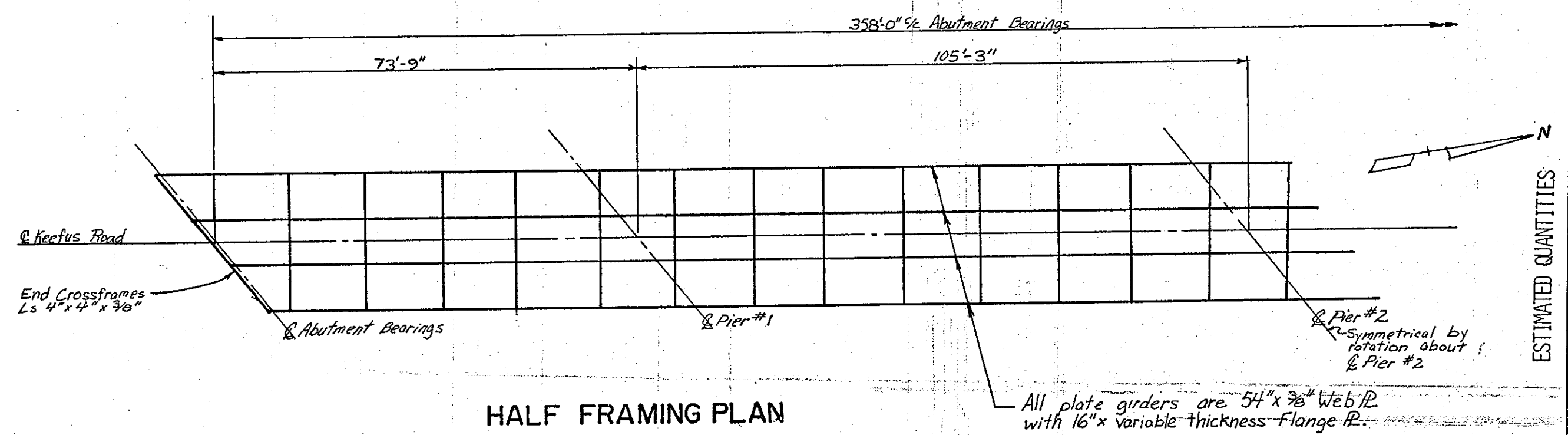
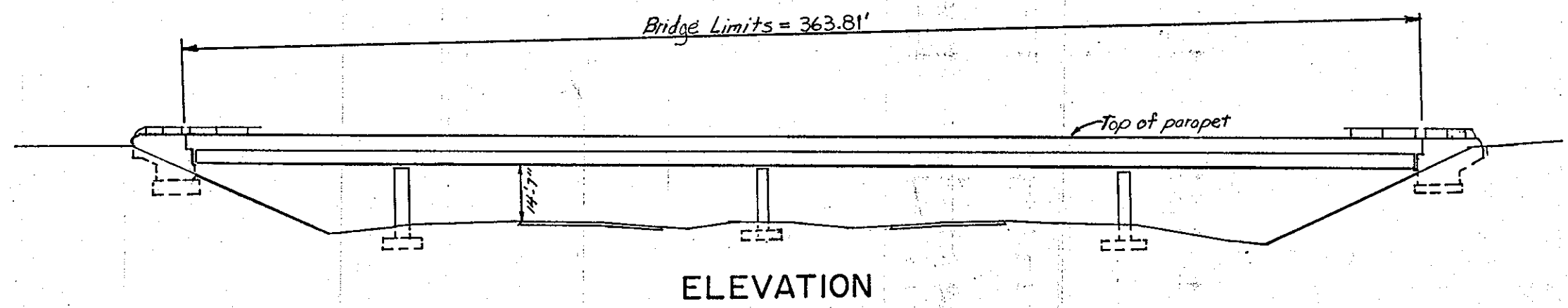


TRANSVERSE SECTION

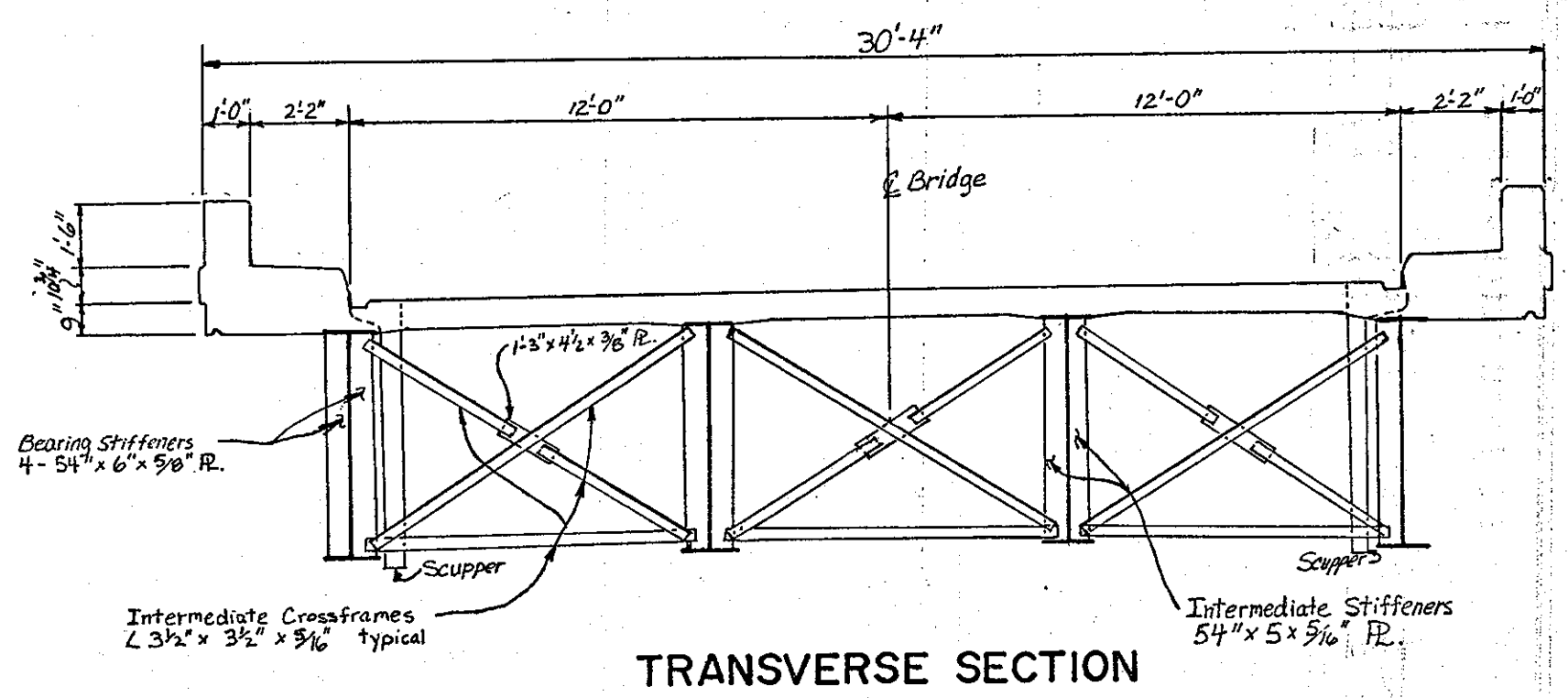
ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2172 R	TYPE: Steel Girder
SFN: 0404446	LENGTH: 448.76'
NO. OF SPANS: 3	WIDTH: 39'-8" curb/curb
OVER: CONNEAUT CREEK	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 1,044,543 lbs.	

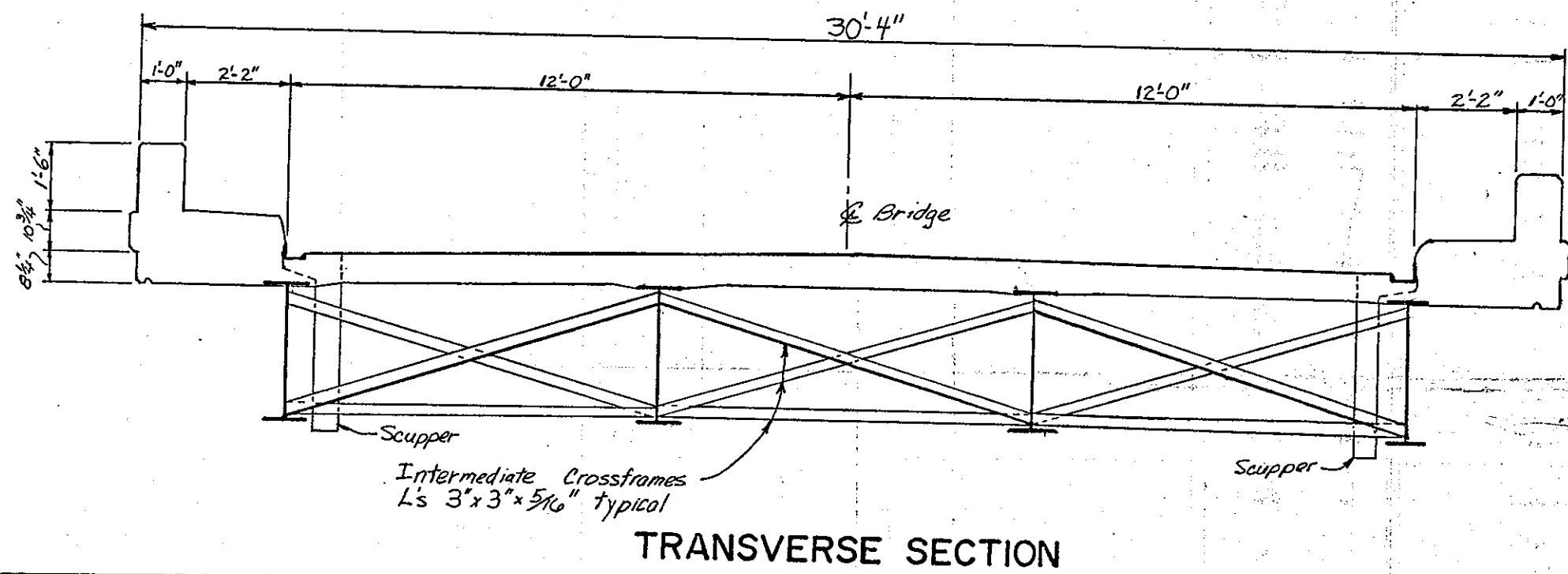
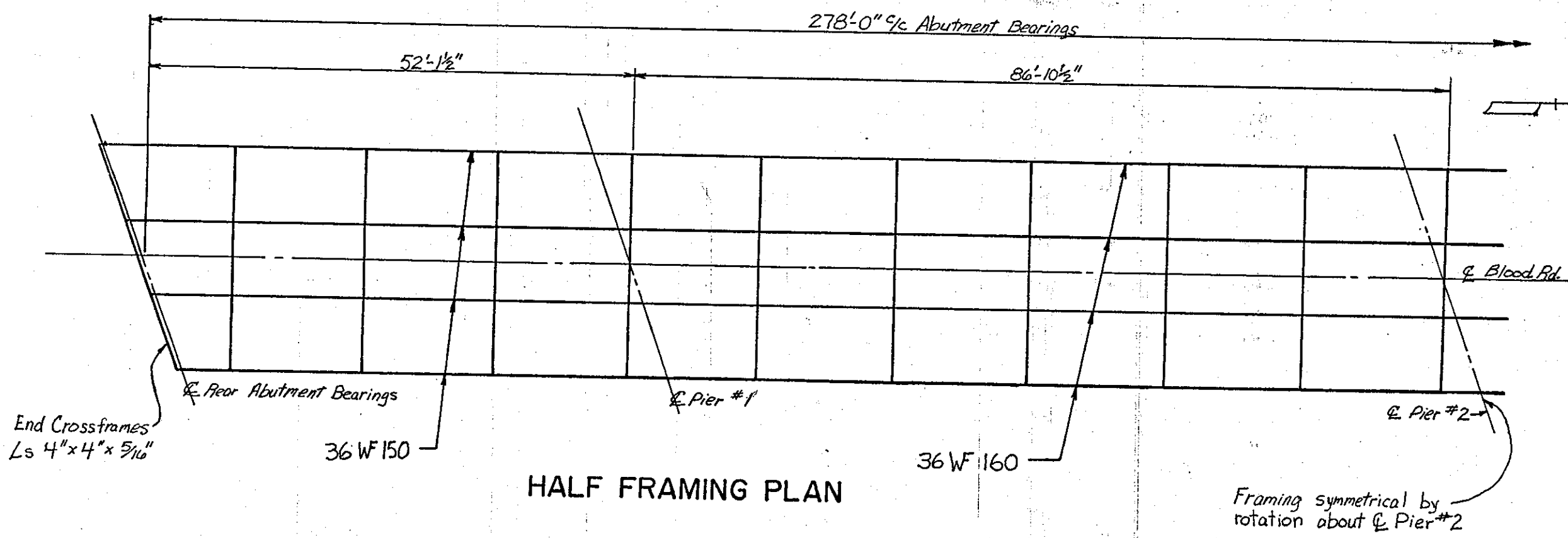
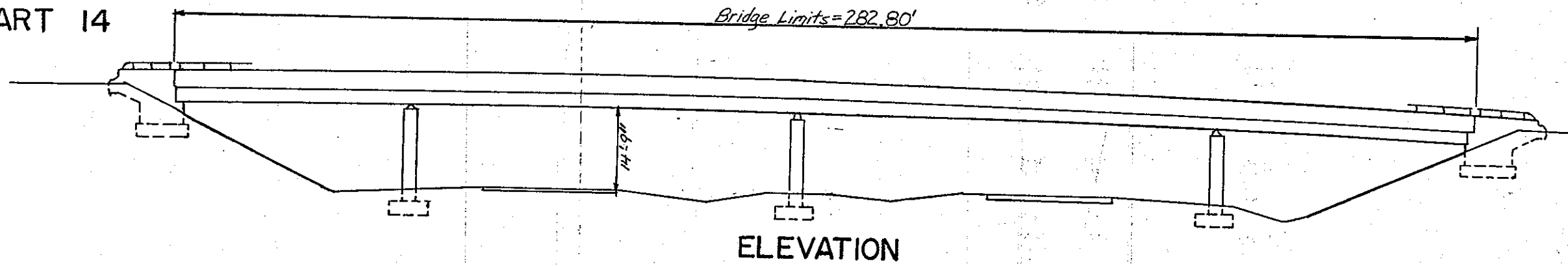


All plate girders are 54" x 3/8" Web PL with 16" x variable thickness Flange PL.



ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

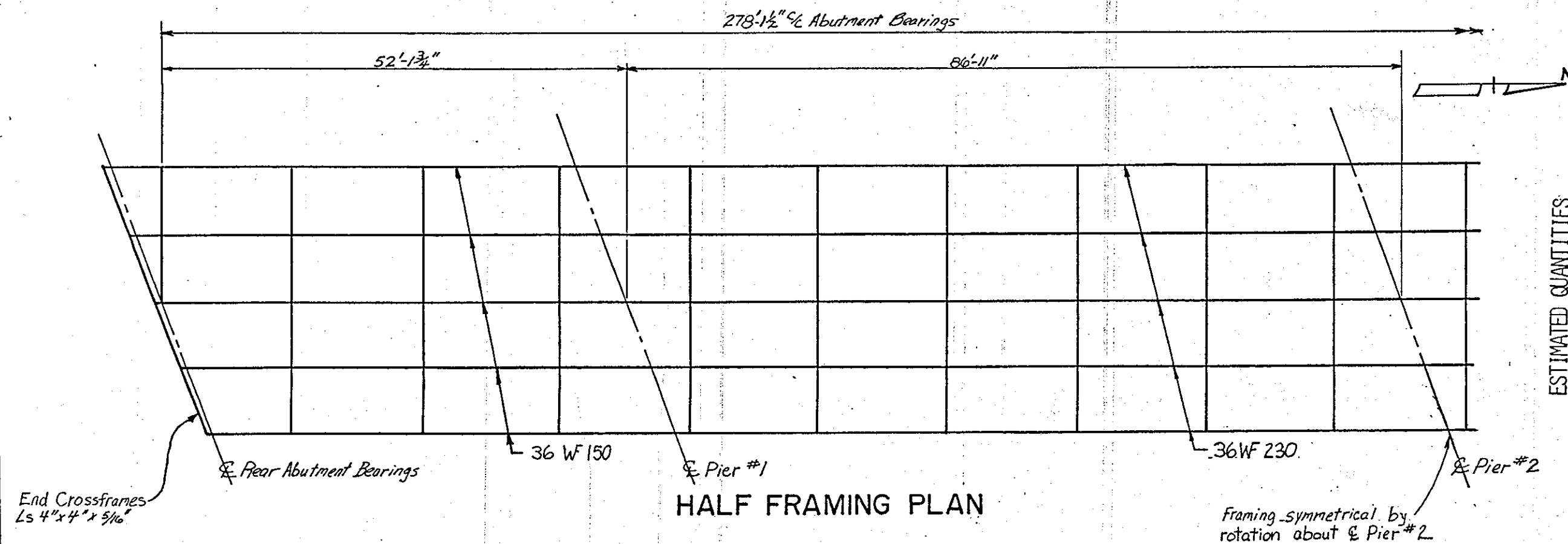
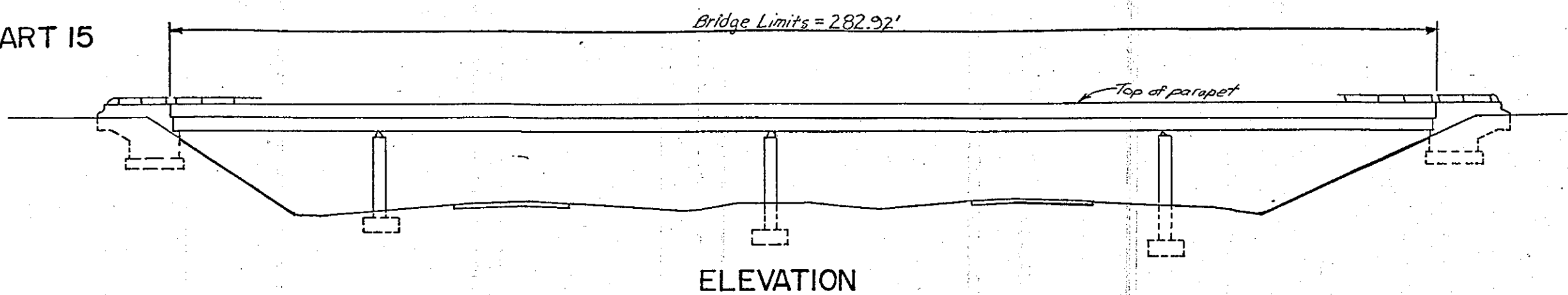
STRUCTURE DATA	
COUNTY-ROUTE-SECTION	TYPE: Steel Girder
ATB-90-2385	LENGTH: 363.81'
SFN: 0404535	WIDTH: 24'-0" curb/curb
NO. OF SPANS: 4	RAIL: Aluminum
OVER: KEEFUS RD. over I-90	
WEIGHT OF STRUCTURAL STEEL: 299,608 lbs.	



ESTIMATED QUANTITIES:

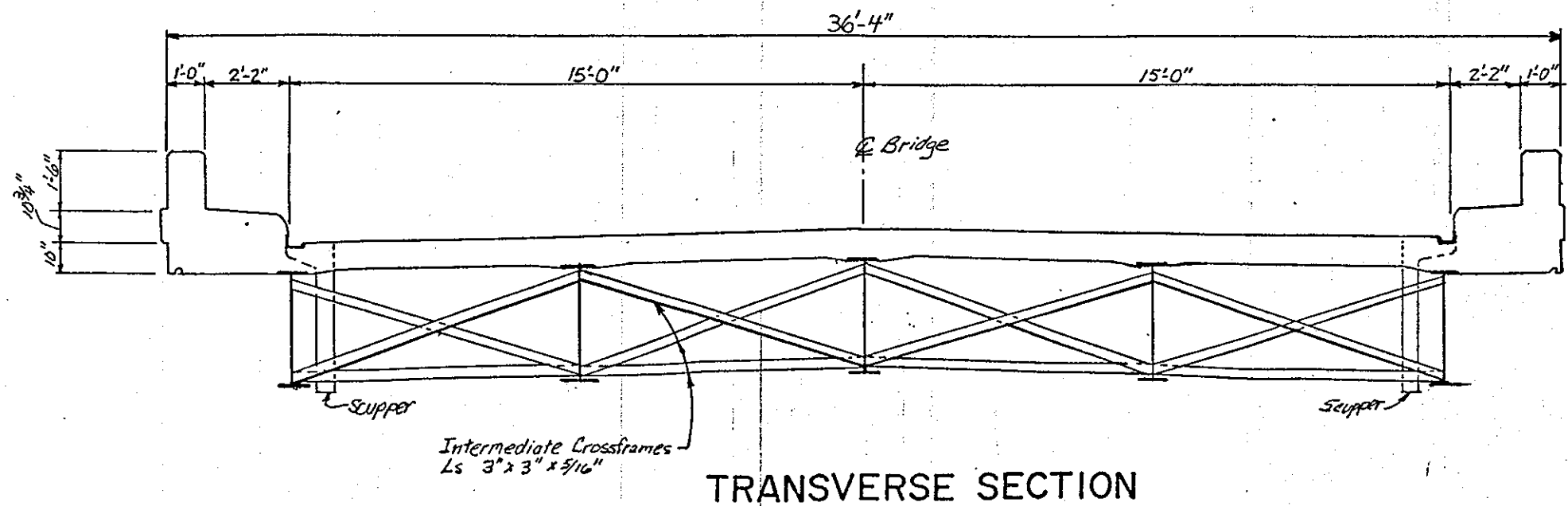
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>ATB-90-2456</b>	TYPE: <b>Cont. Steel Beam</b>
SFN: <b>0404594</b>	LENGTH: <b>282.80'</b>
NO. OF SPANS: <b>4</b>	WIDTH: <b>24'-0" curb/curb</b>
OVER: <b>BLOOD RD. (T.H.448) over I-90</b>	RAIL: <b>Aluminum</b>
WEIGHT OF STRUCTURAL STEEL: <b>222,480 lbs.</b>	

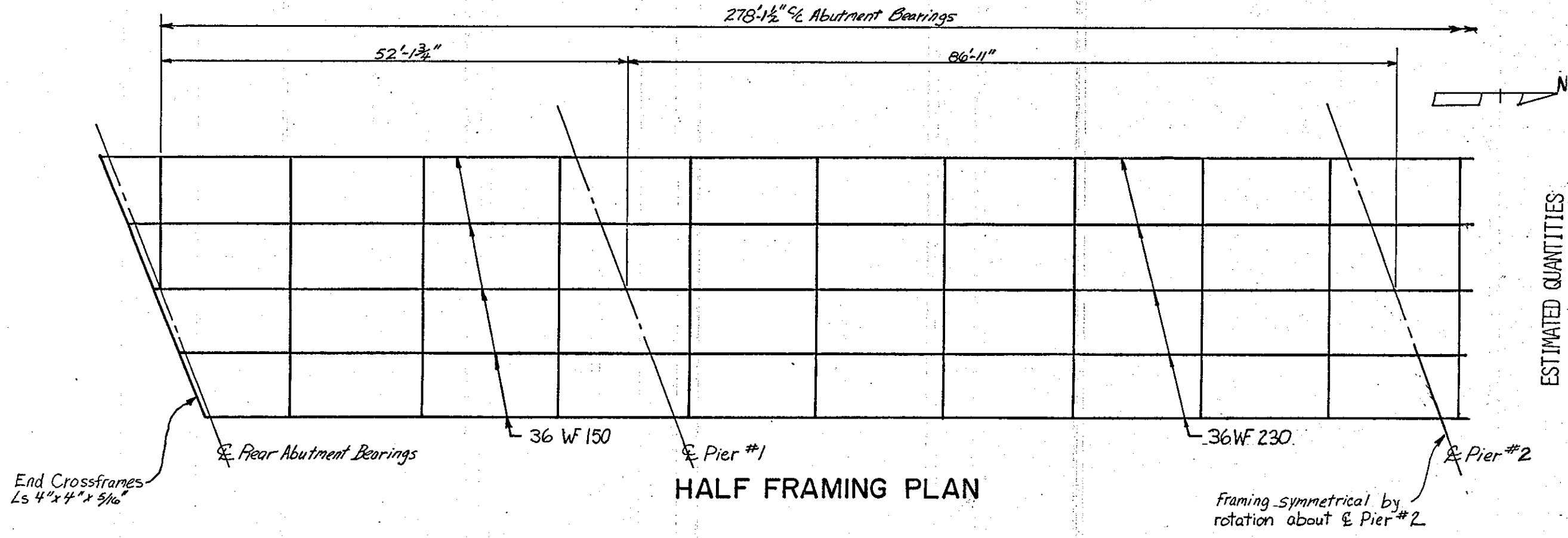
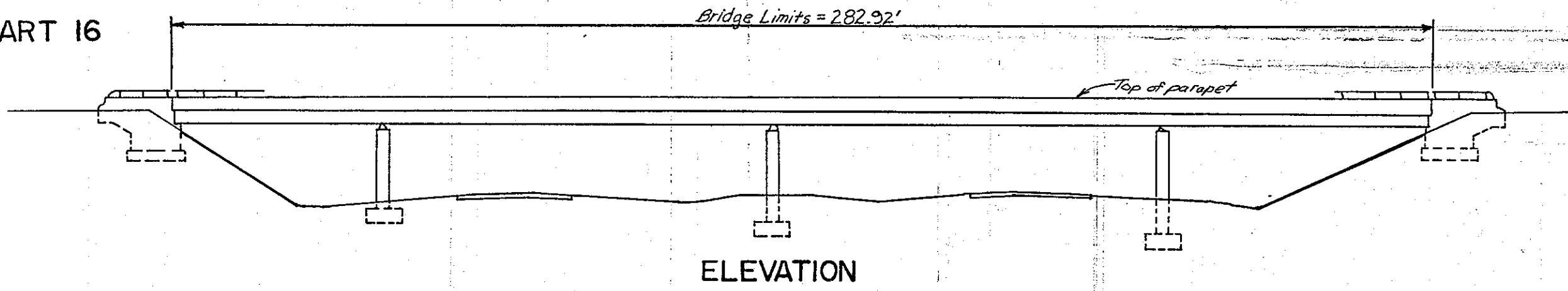


ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

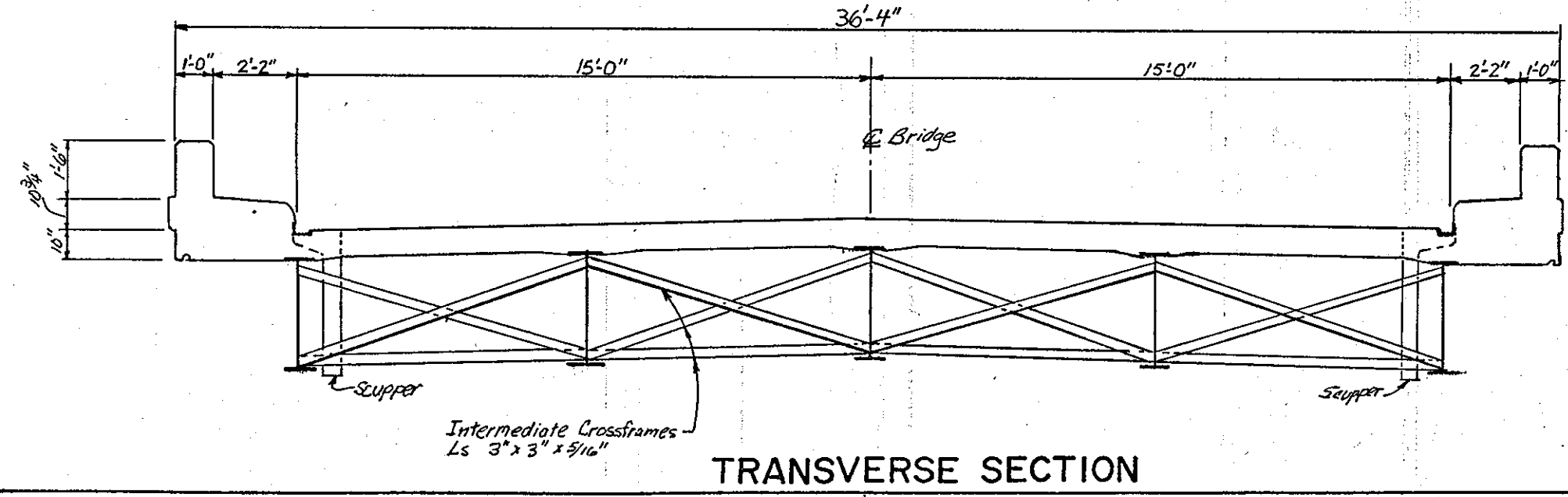


STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2575	TYPE: Cont. Steel Beam
SFN: 0400955	LENGTH: 282.92'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-90 under SR 7	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 354,552 lbs.	

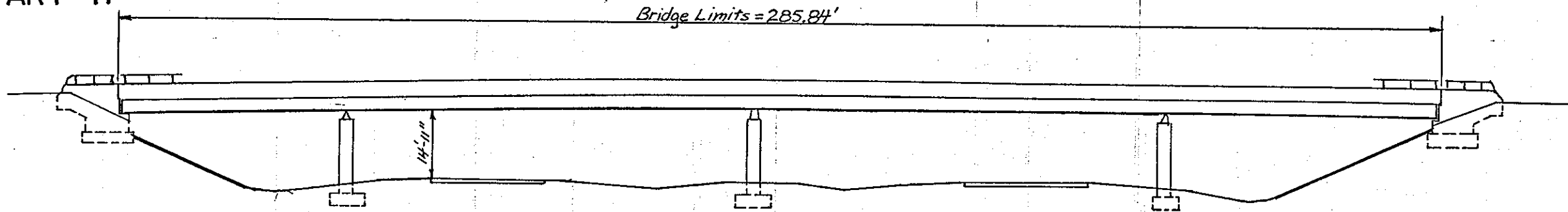


ESTIMATED QUANTITIES

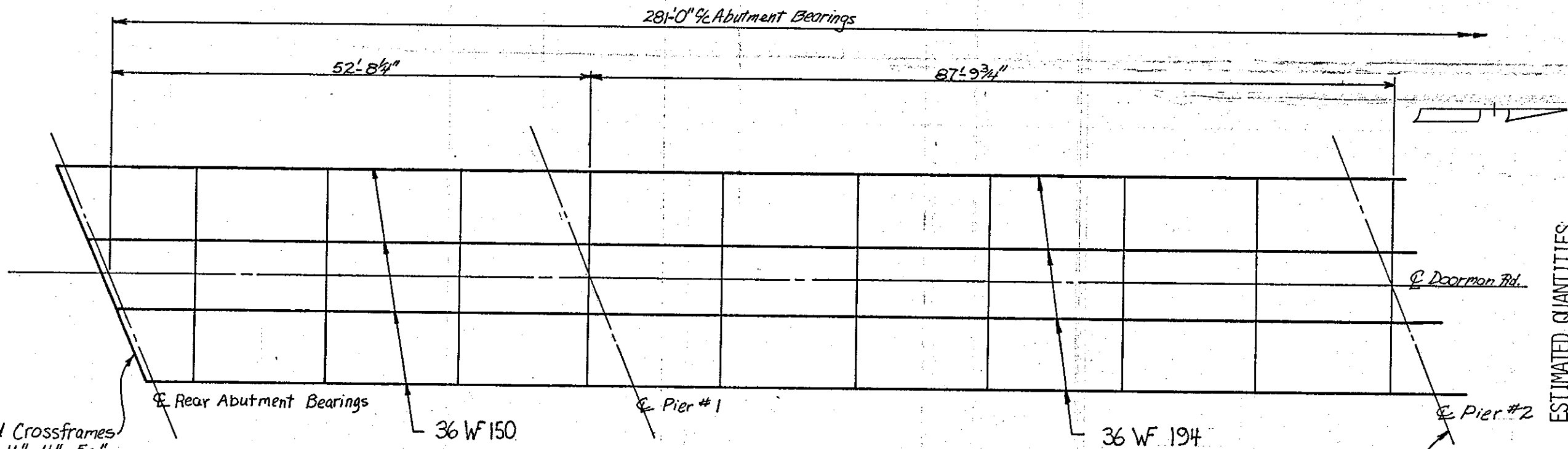
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME-SYSTEM A
SPECIAL	LUMP	COMP: EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP: COAT FINISH-SYSTEM A



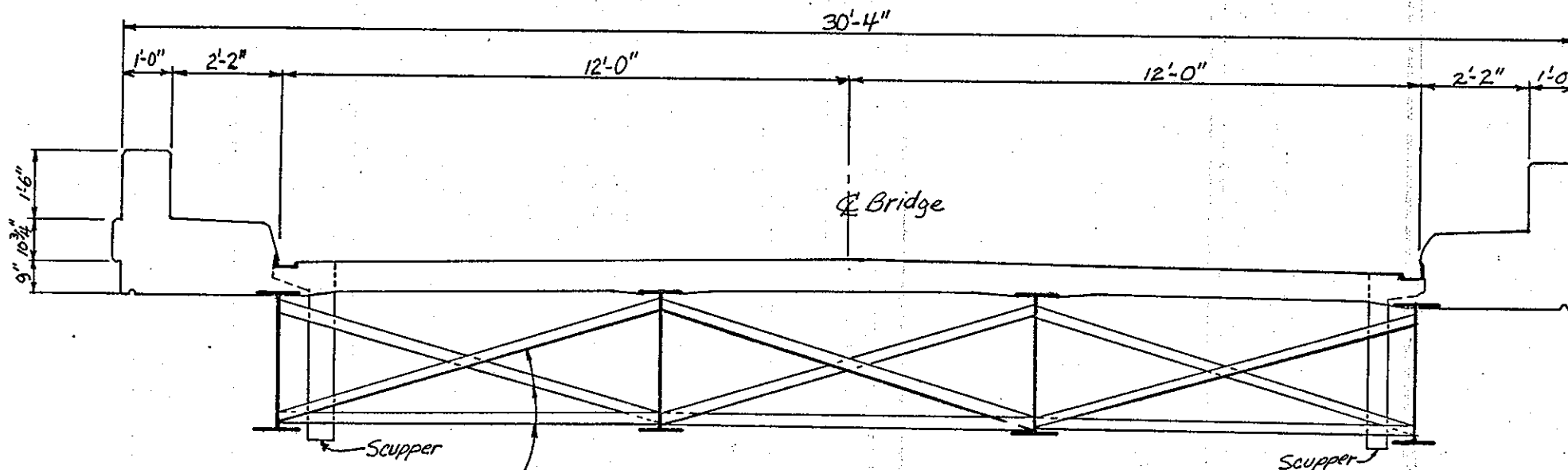
STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2577	TYPE: Cont. Steel Beam
SFN: 0400963	LENGTH: 282.92'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-90 under SR 7	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 354,552 lbs.	



ELEVATION



HALF FRAMING PLAN



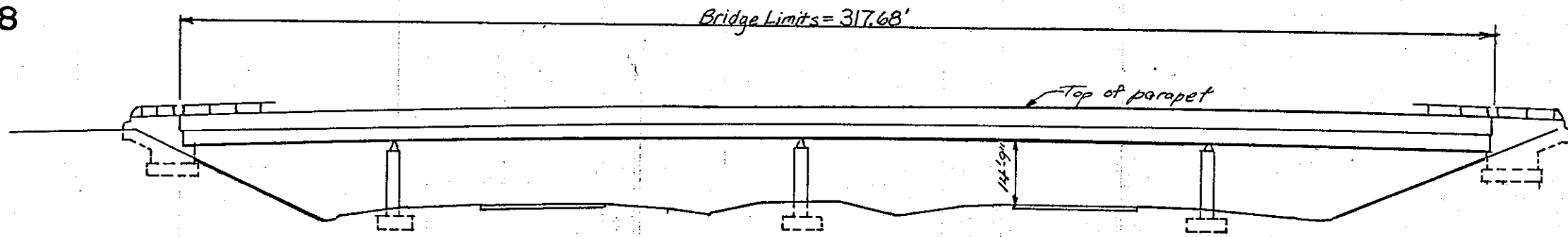
TRANSVERSE SECTION

ESTIMATED QUANTITIES

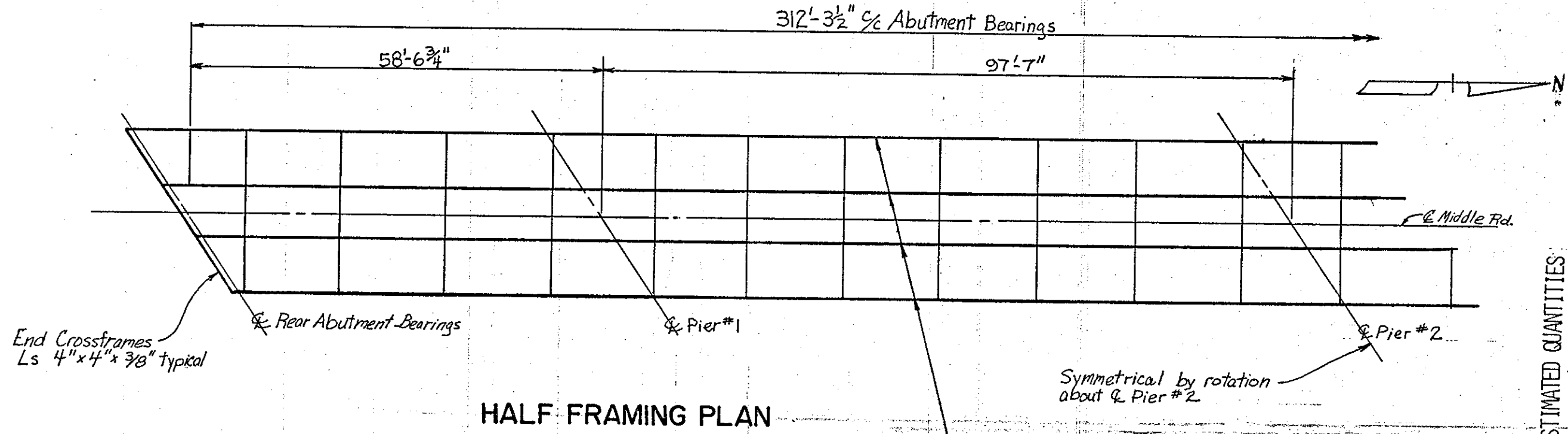
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP COAT FINISH - SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2650	TYPE: Cont. Steel Beam
SFN: 0404683	LENGTH: 285.84'
NO. OF SPANS: 4	WIDTH: 24'-0" curb / curb
RAIL: Aluminum	
OVER: DOORMAN RD. over I-90.	
WEIGHT OF STRUCTURAL STEEL: 258,697 lbs.	



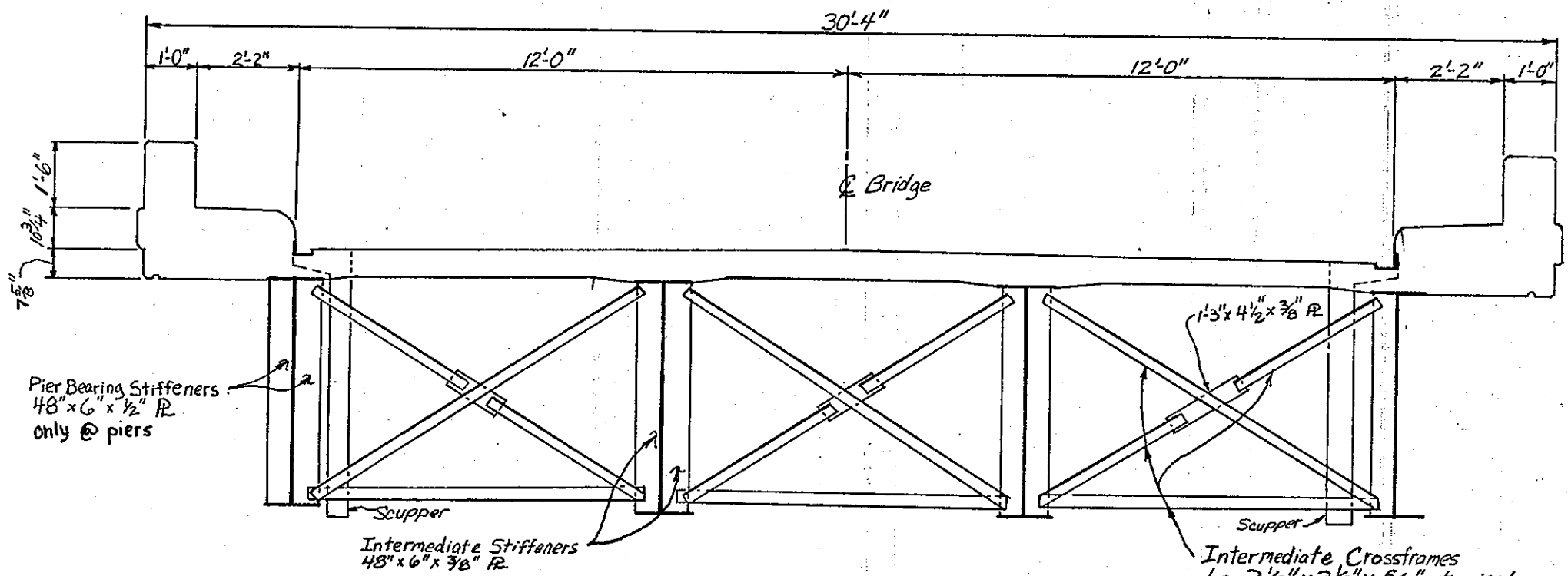


ELEVATION



HALF FRAMING PLAN

All plate girders are 48" x 38" Web R.  
with variable Flange R.

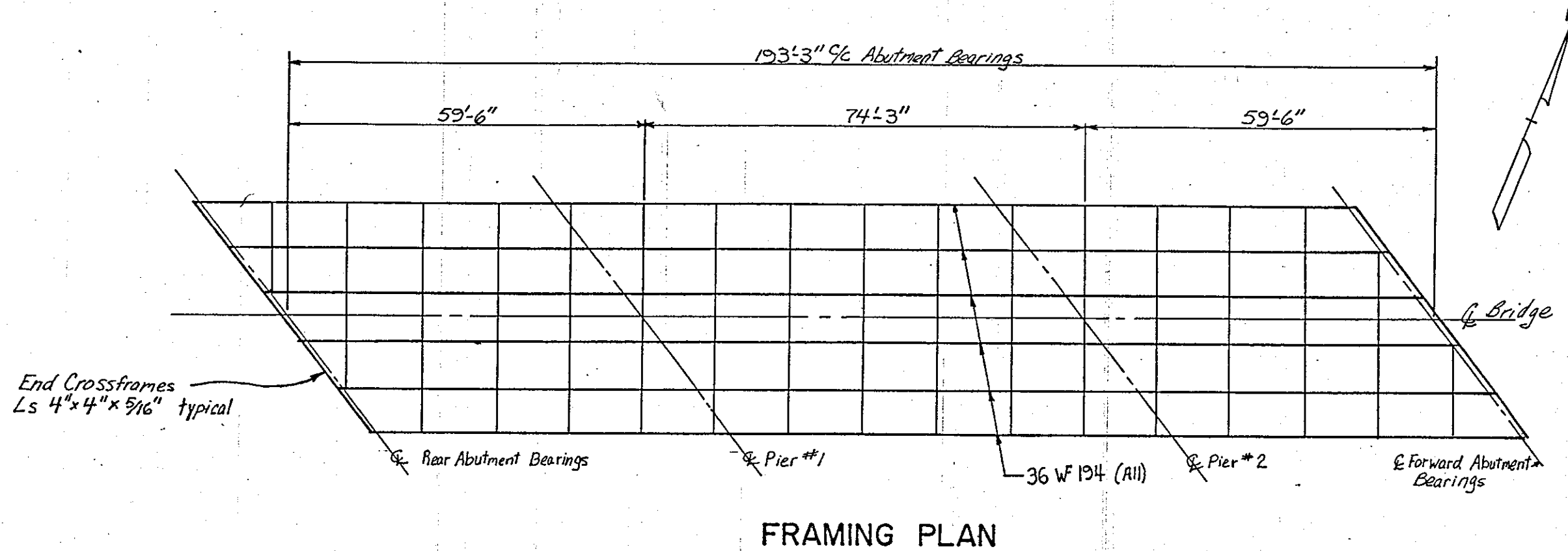
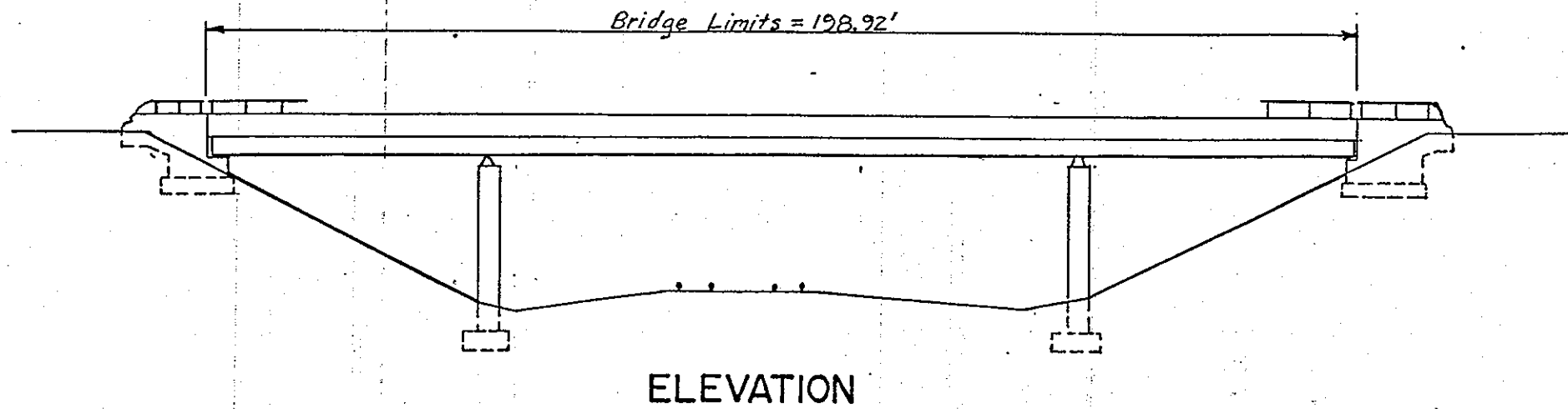


TRANSVERSE SECTION

ESTIMATED QUANTITIES:

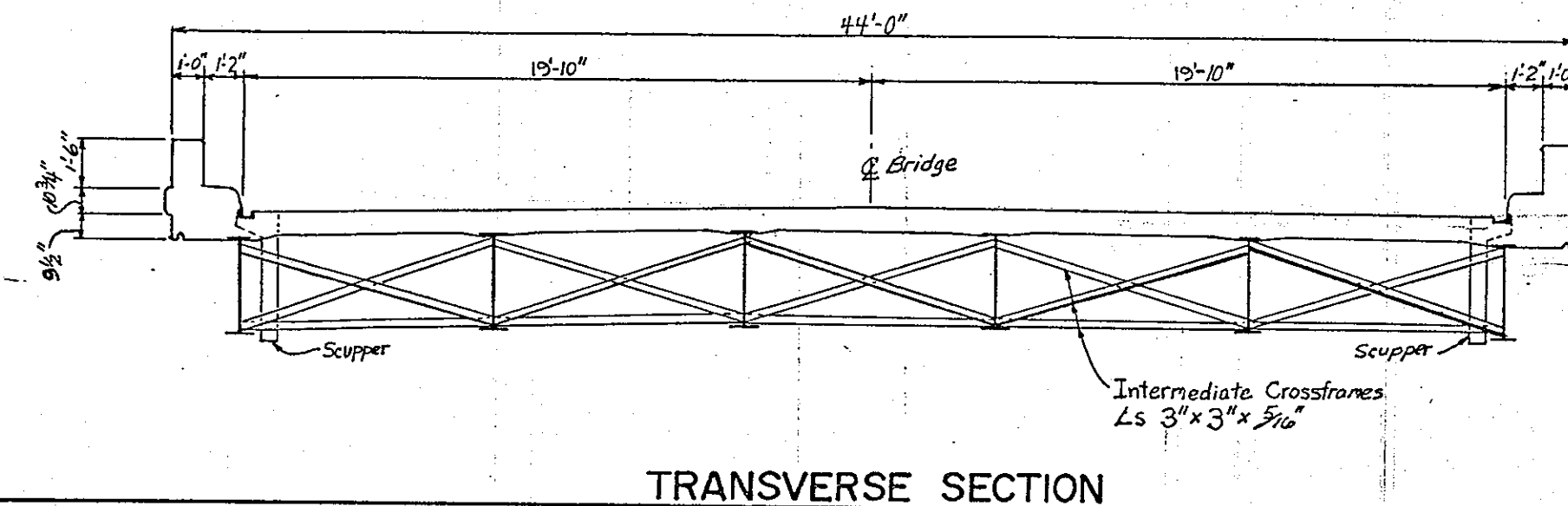
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2723	TYPE: Steel Girder
SFN: 0404713	LENGTH: 317.68'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: MIDDLE RD. over I-90	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 264,088 lbs.	

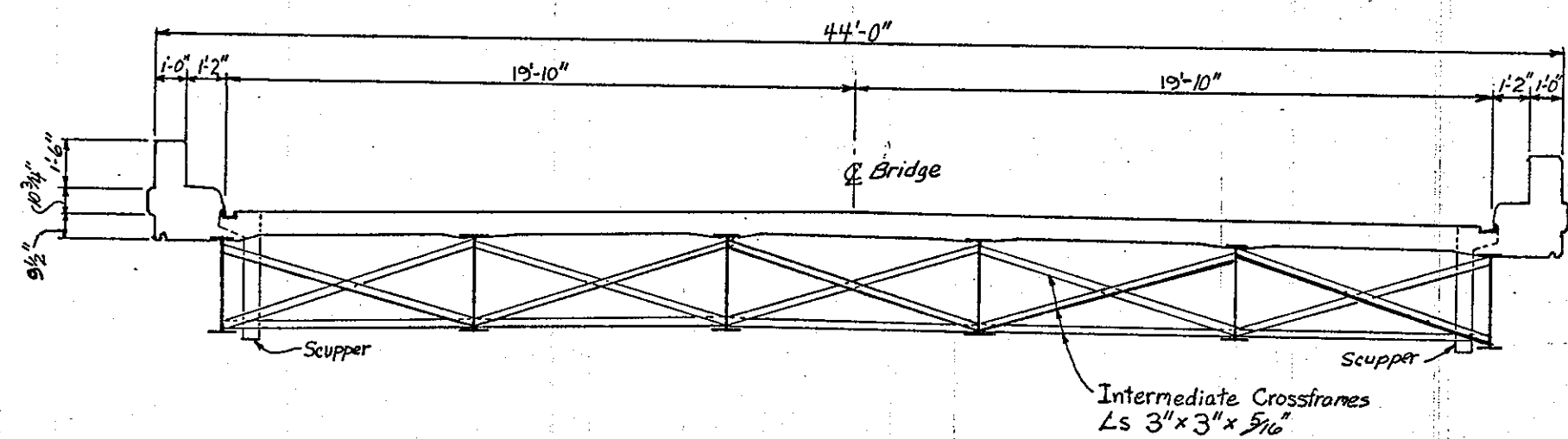
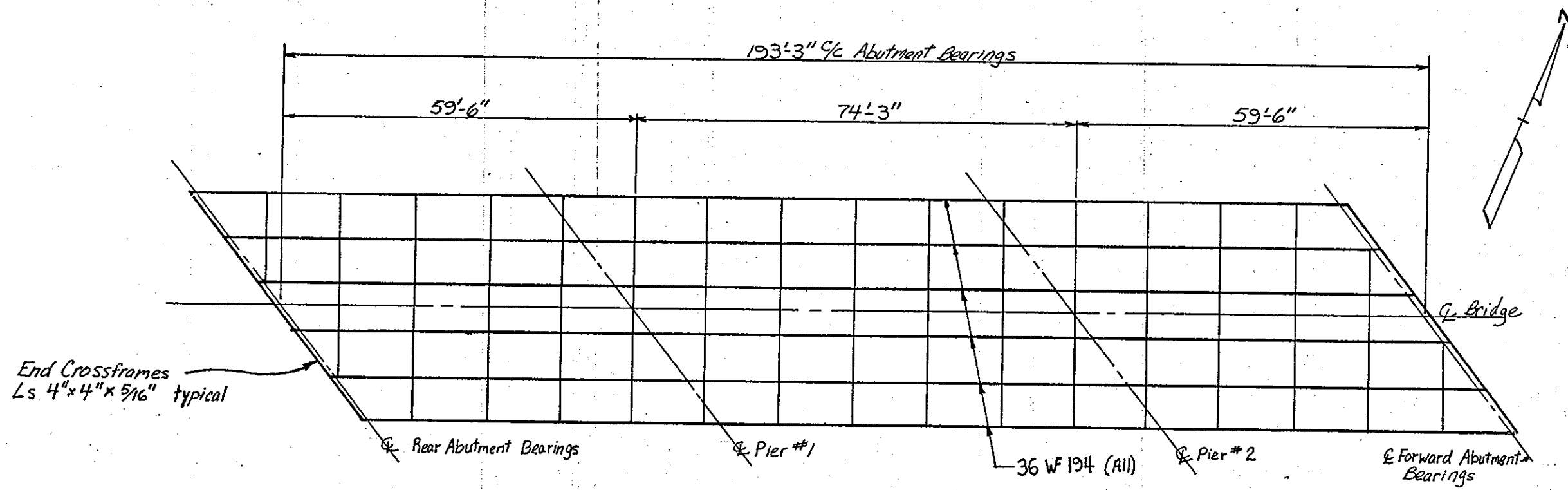
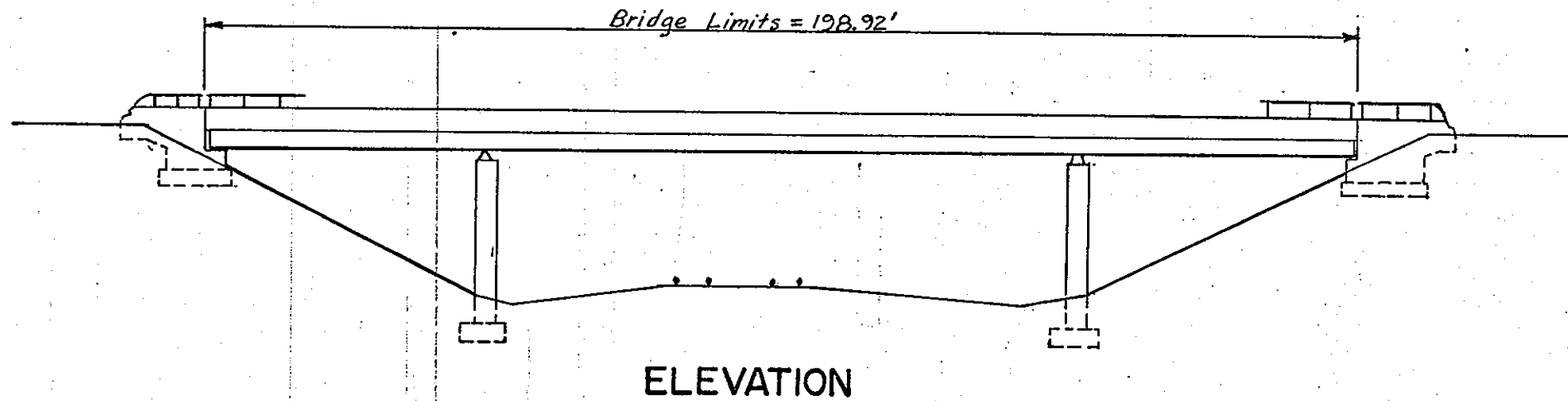


ESTIMATED QUANTITIES:

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME-SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A



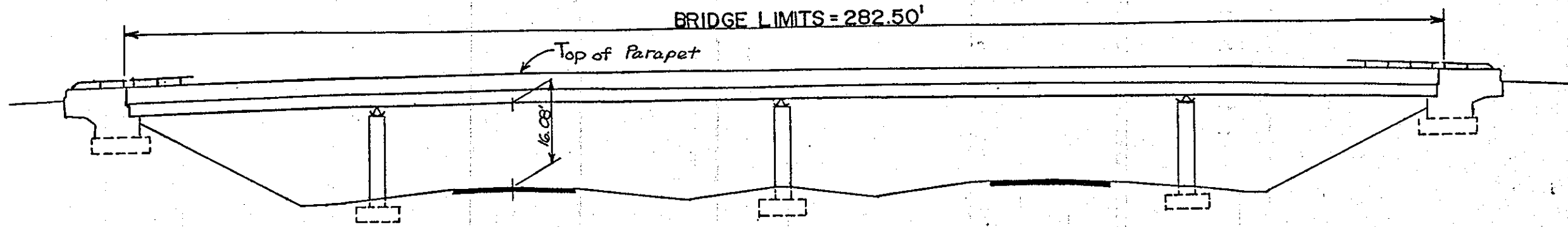
STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2839 L	TYPE: Cont. Steel Beam
SFN: 0404802	LENGTH: 198.92'
NO. OF SPANS: 3	WIDTH: 39'-0
OVER: B.&L.E. RR.	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 268,297 lbs.	



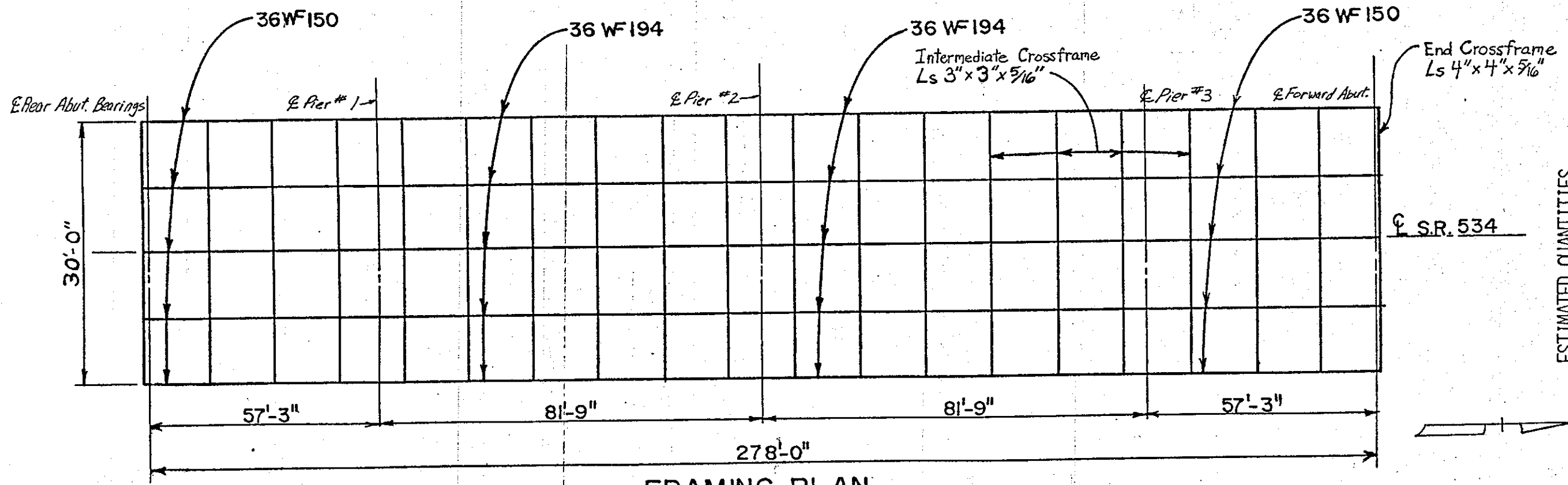
ESTIMATED QUANTITIES:

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

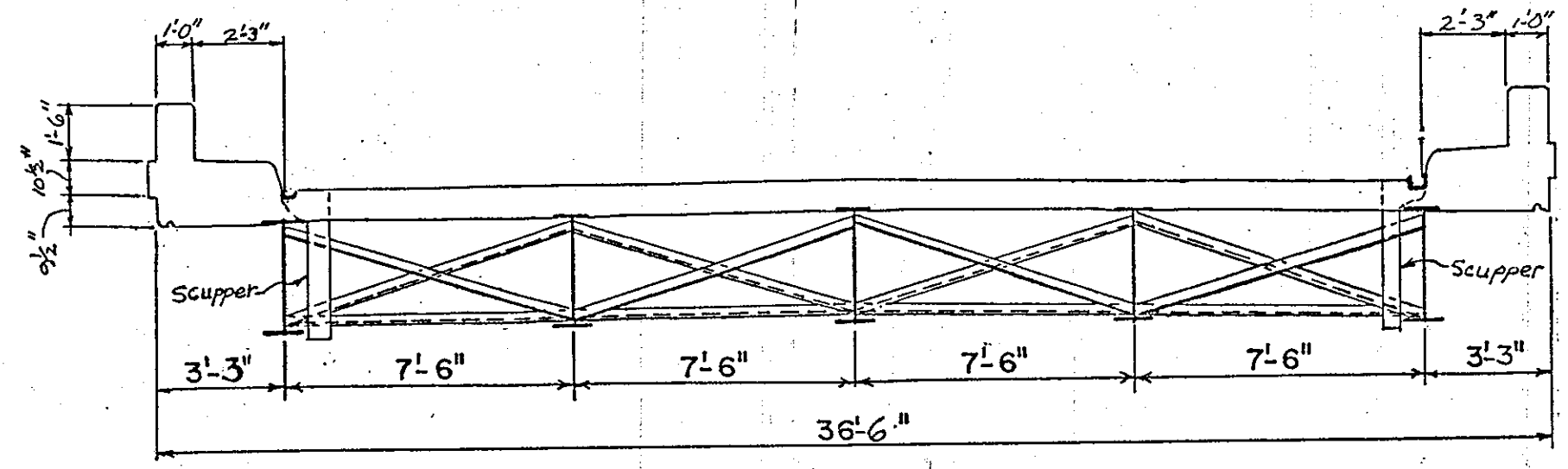
STRUCTURE DATA	
COUNTY-ROUTE-SECTION ATB-90-2839 R	TYPE: Cont. Steel Beam
SFN: 0404837	LENGTH: 198.92'
NO. OF SPANS: 3	WIDTH: 39'-8" curb/curb
OVER: B. & L. E. RR.	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 268,297 lbs.	



ELEVATION



FRAMING PLAN

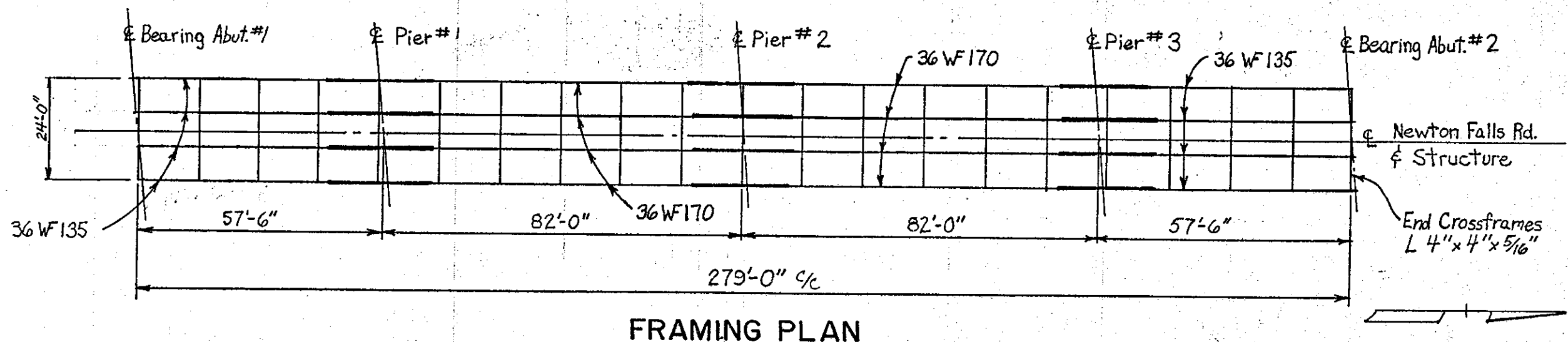
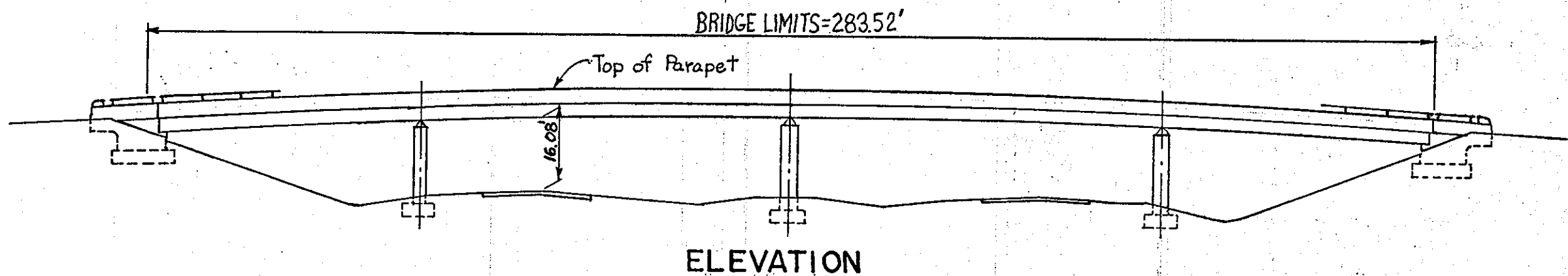


TRANSVERSE SECTION

ESTIMATED QUANTITIES

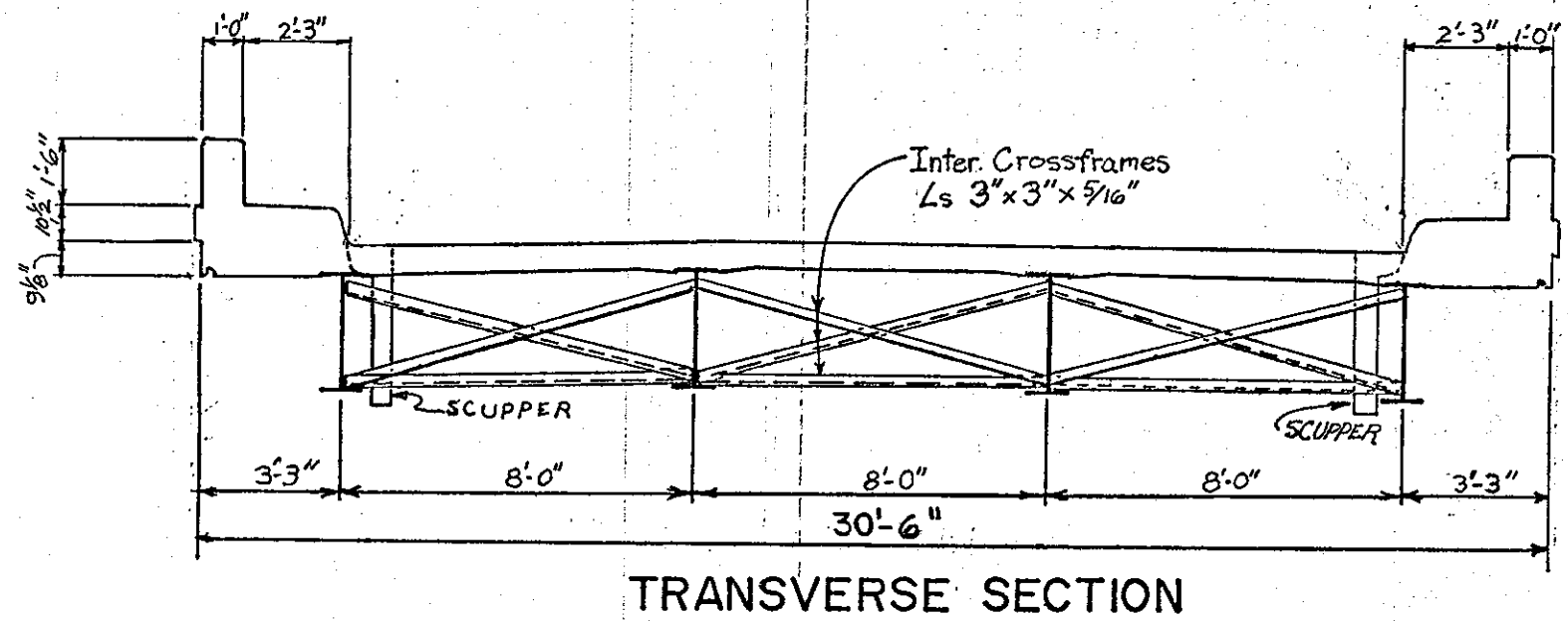
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME-SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT-FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>MAH-76-0284</b>	TYPE: Cont. Steel Beam
SFN:5005914	LENGTH: 282.50'
NO. OF SPANS: 4	WIDTH: 30'-0" curb/curb
OVER: I-76 under S.R 534	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 303,900 lbs.	

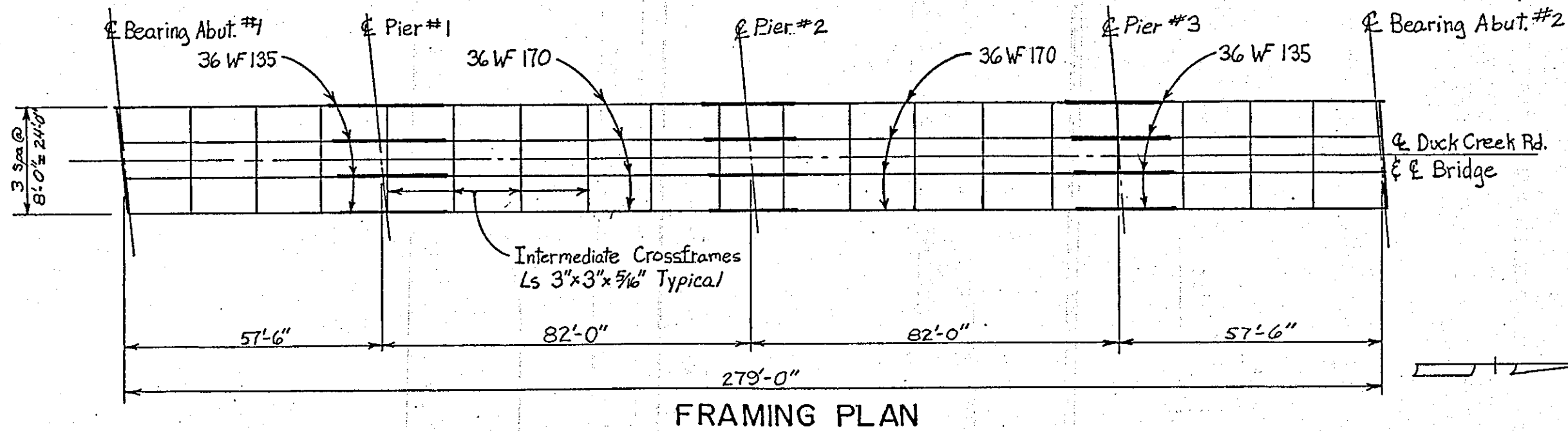
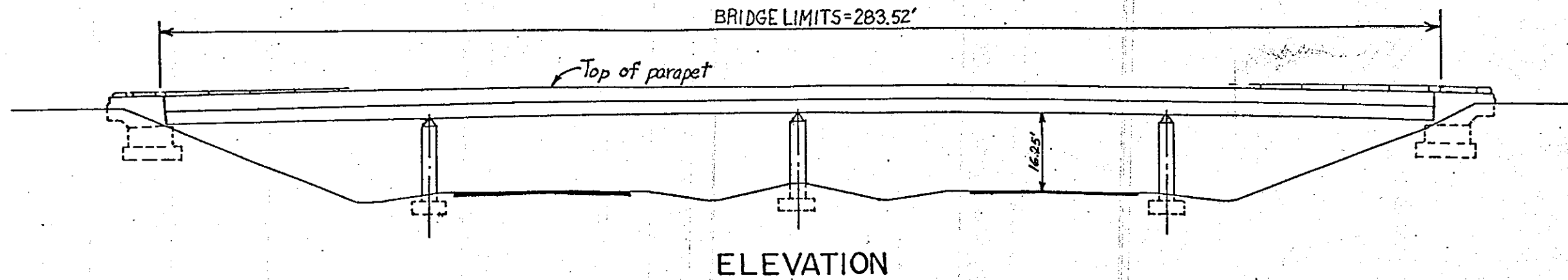


ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

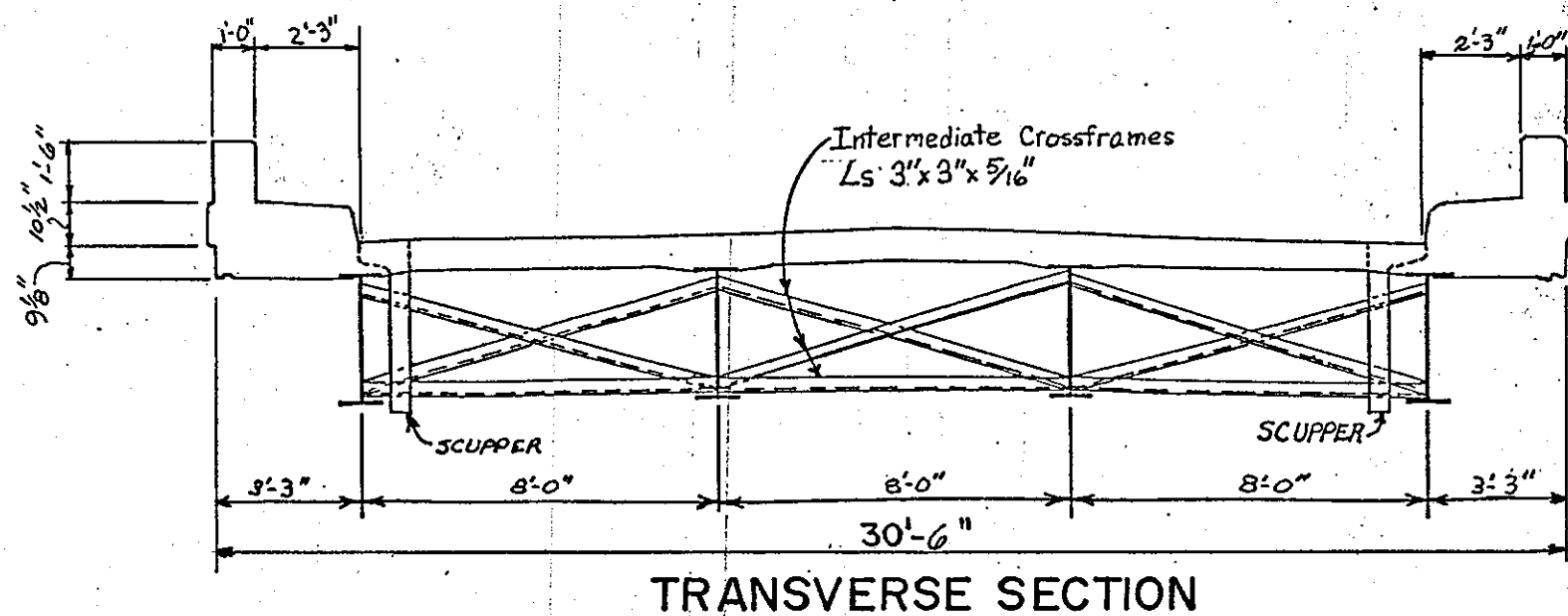


STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>MAH-76-0408</b>	TYPE: Cont. Steel Beam
SFN: 5002826	LENGTH: 28352'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: NEWTON FALLS RD. over I-76	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 213,700 lbs.	

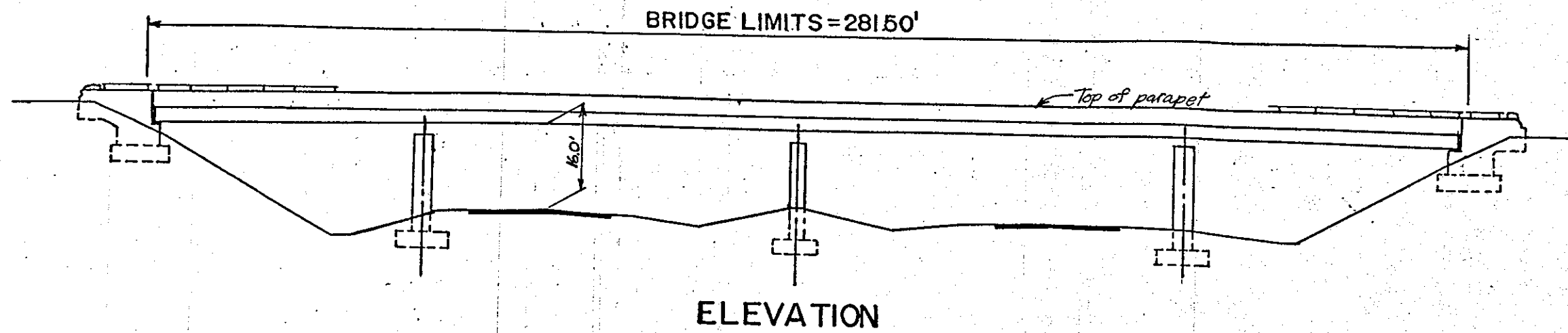


ESTIMATED QUANTITIES

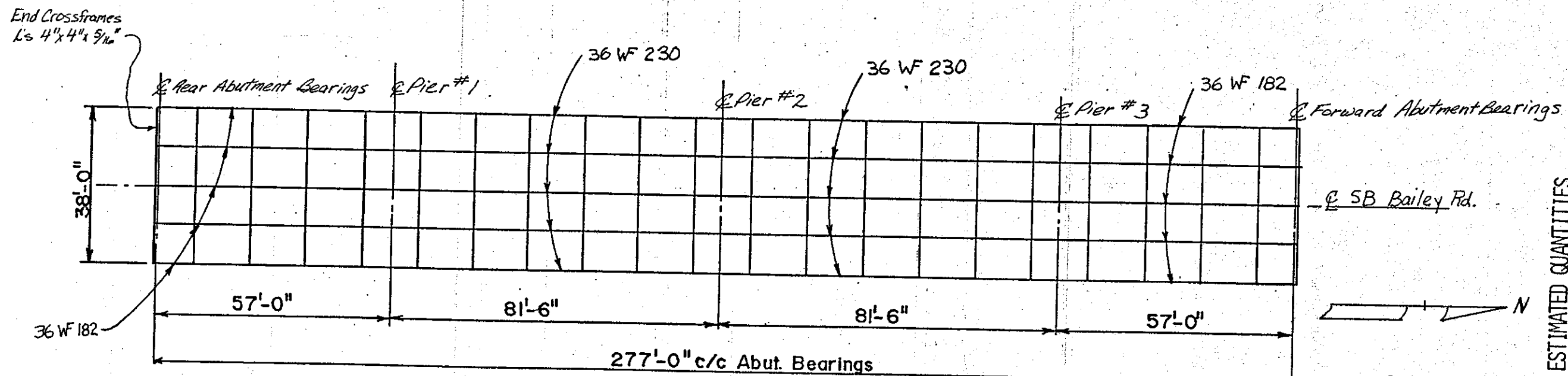
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A



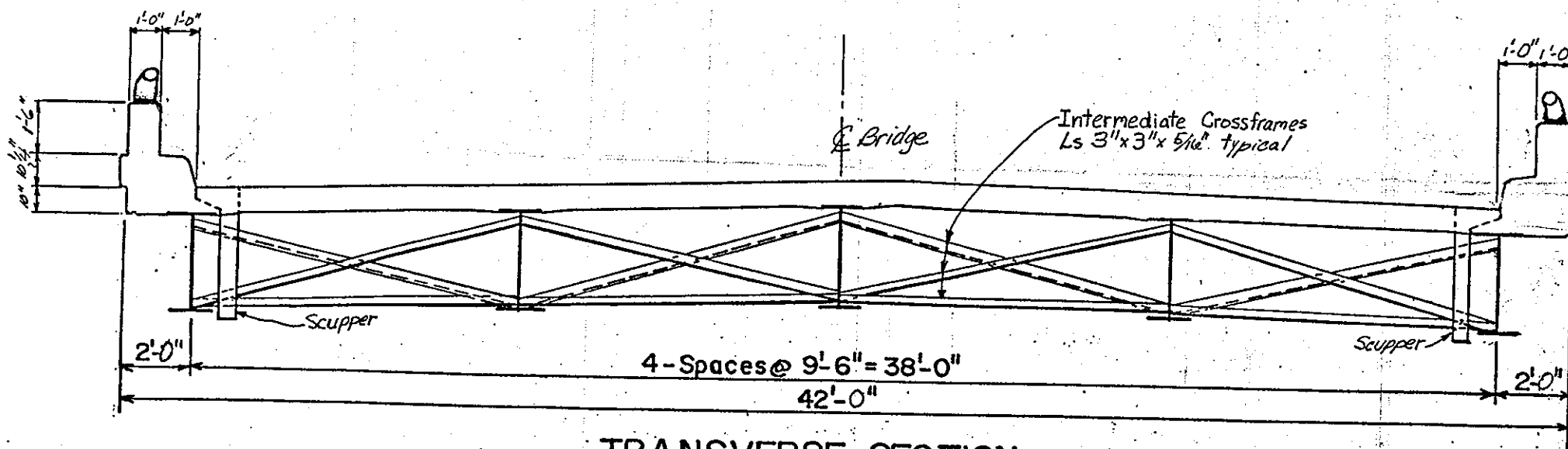
STRUCTURE DATA	
COUNTY-ROUTE-SECTION MAH-76-0508	TYPE: Cont. Steel Beam
SFN: 5002885	LENGTH: 283.52'
NO. OF SPANS: 4	WIDTH: 24'-0" curb/curb
OVER: DUCK CREEK RD. over I-76	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 213,700 lbs.	



ELEVATION



FRAMING PLAN



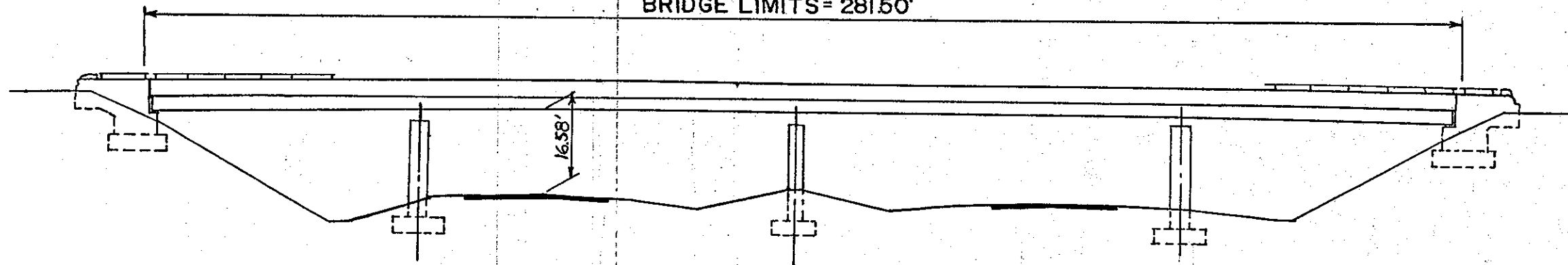
TRANSVERSE SECTION

ESTIMATED QUANTITIES

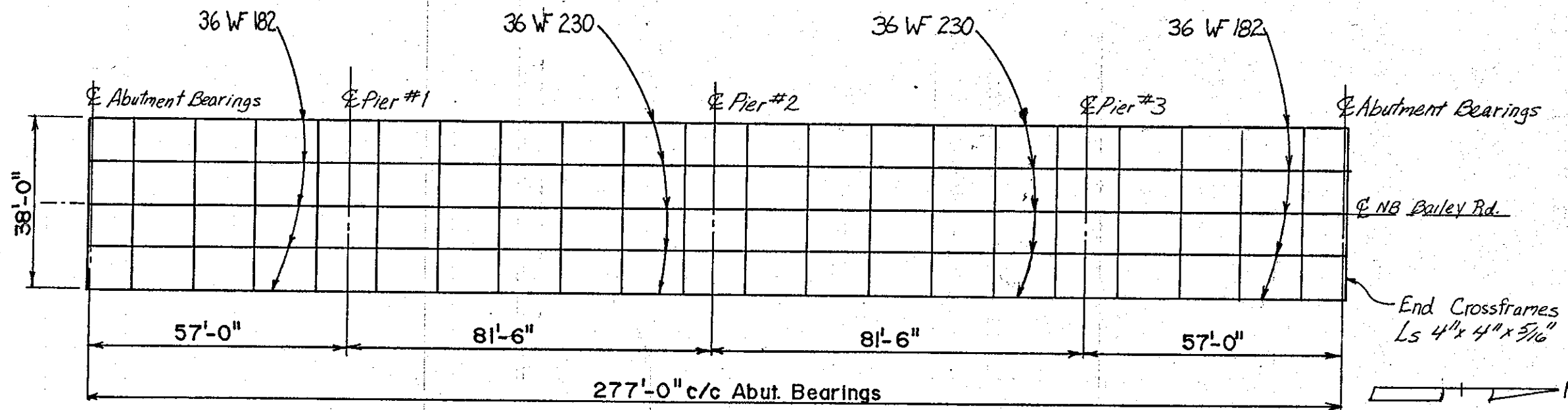
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>MAH-76-0604</b>	TYPE: Cont. Steel Beam
SFN: 5002974	LENGTH: 281.50'
NO. OF SPANS: 4	WIDTH: 38'-0" curb/curb
OVER: SB BAILEY RD. over I-76	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 353,900 lbs.	

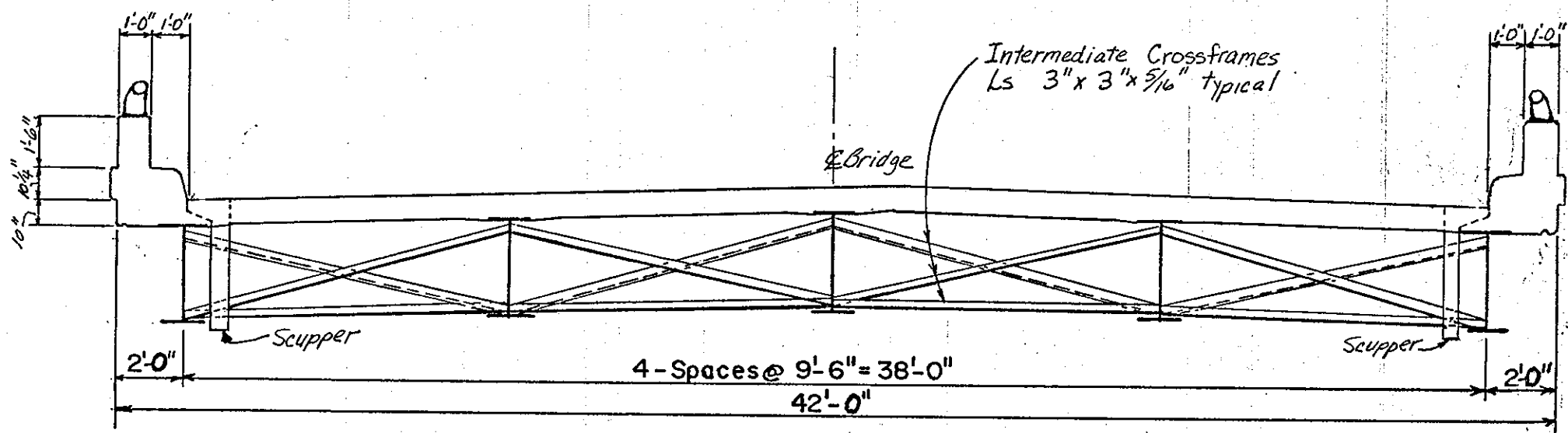
BRIDGE LIMITS = 281.50'



ELEVATION



FRAMING PLAN



TRANSVERSE SECTION

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA

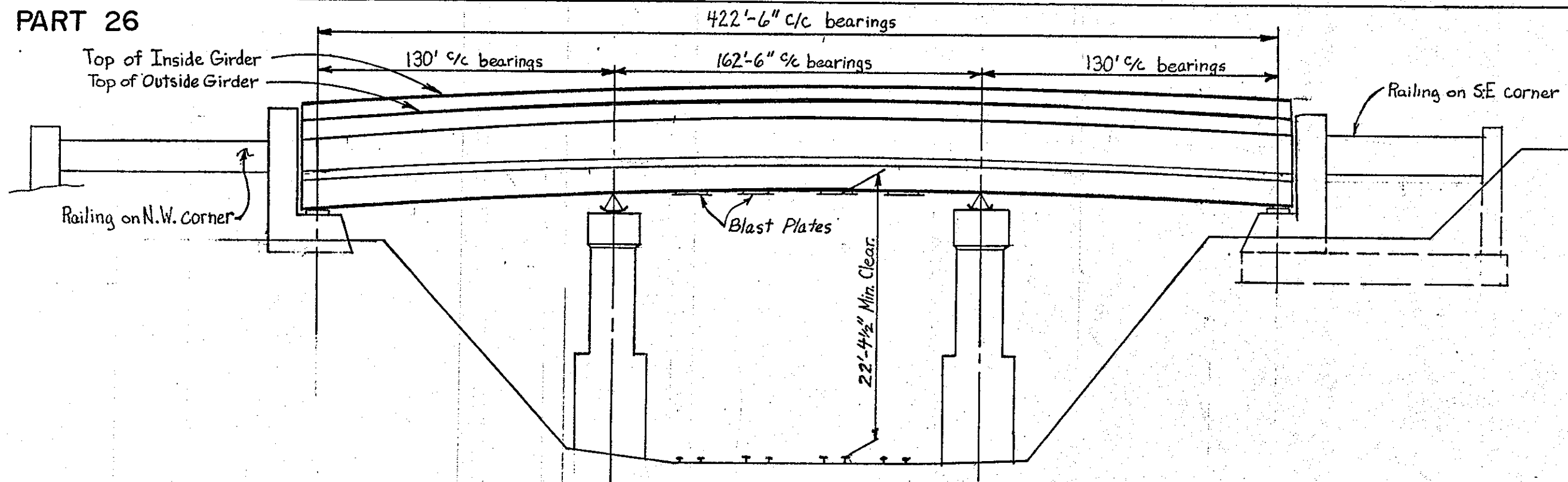
COUNTY-ROUTE-SECTION MAH-76-0606	TYPE: Cont. Steel Beam
SFN: 5002915	LENGTH: 281.50'
NO. OF SPANS: 4	WIDTH: 38'-0" curb/curb
OVER: NB BAILEY RD. over I-76	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 353,900 lbs.	



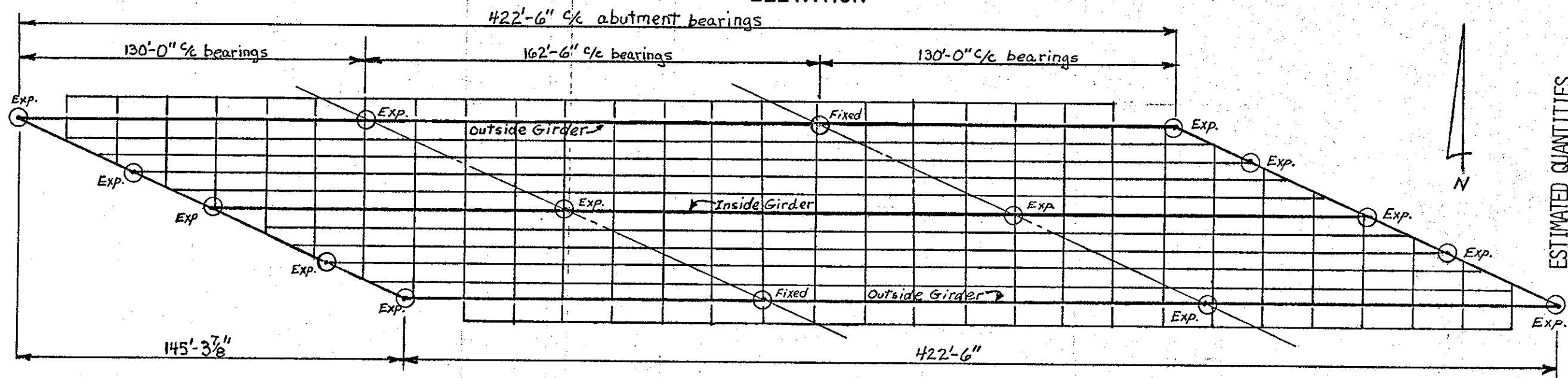
**PART 26**

33  
38

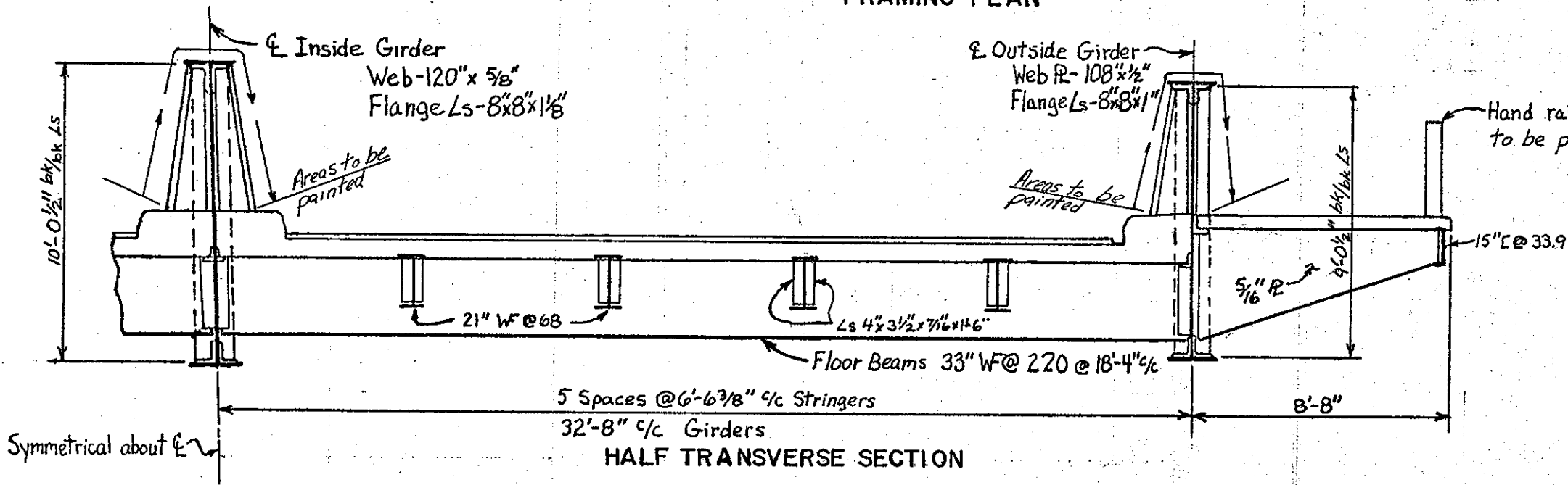
PLAN NO.  
BP-17-84



**ELEVATION**



**FRAMING PLAN**



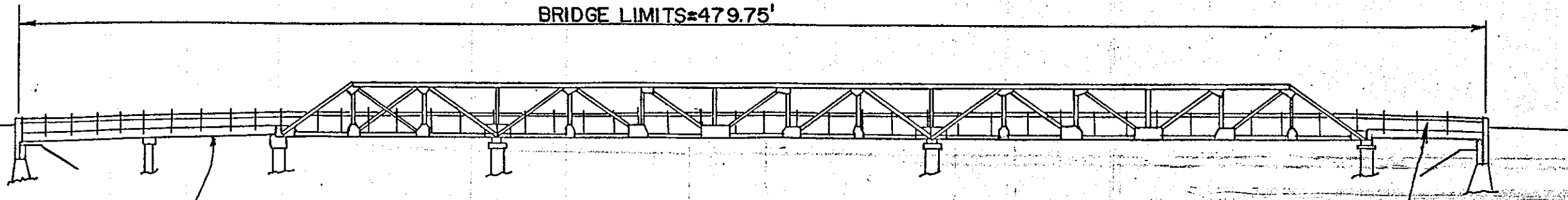
**HALF TRANSVERSE SECTION**

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

STRUCTURE DATA	
COUNTY-ROUTE-SECTION <b>POR-59-0605</b>	TYPE: <b>Steel Thru Girder</b>
SFN: <b>6701833</b>	LENGTH: <b>433.06'</b>
NO. OF SPANS: <b>3</b>	WIDTH: <b>2-28'-0"</b>
OVER: <b>PENN CENTRAL R.R.</b>	
WEIGHT OF STRUCTURAL STEEL: <b>475,000 lbs.</b>	

BRIDGE LIMITS=479.75'

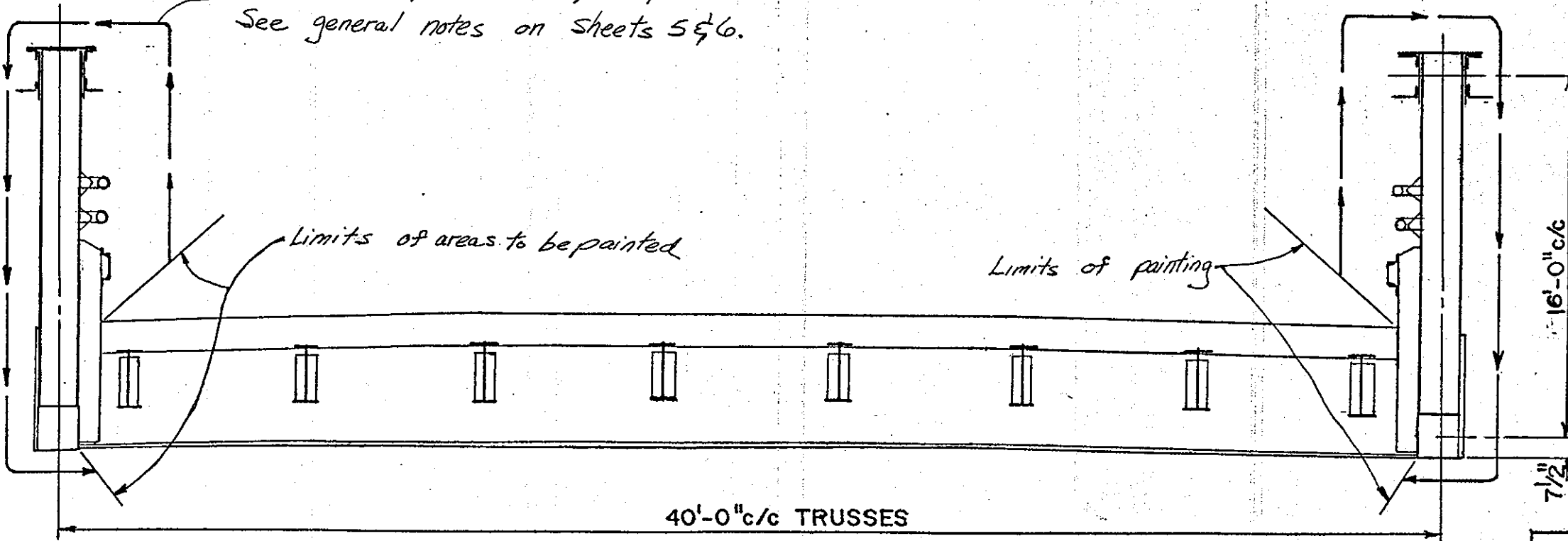


ELEVATION

*Railing, posts, and outside girders to be painted.*

*Railing, posts, and outside girders to be painted*

*Area to be painted as per plan. See general notes on sheets 5 & 6.*



*Limits of areas to be painted*

*Limits of painting*

40'-0" c/c TRUSSES

16'-0" c/c  
7 1/2"

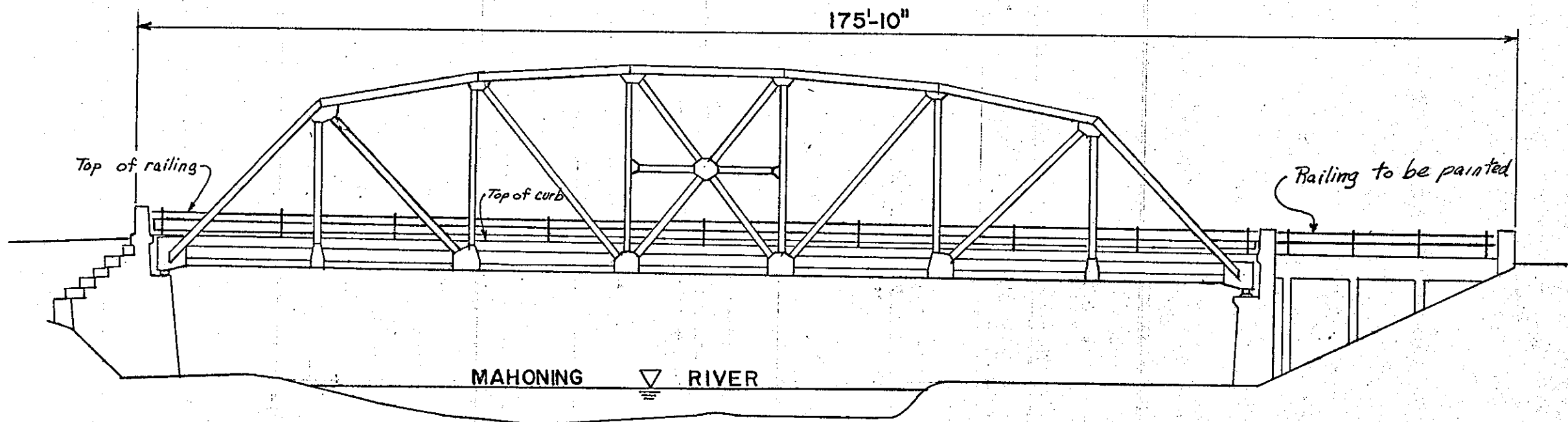
TRANSVERSE SECTION

ESTIMATED QUANTITIES

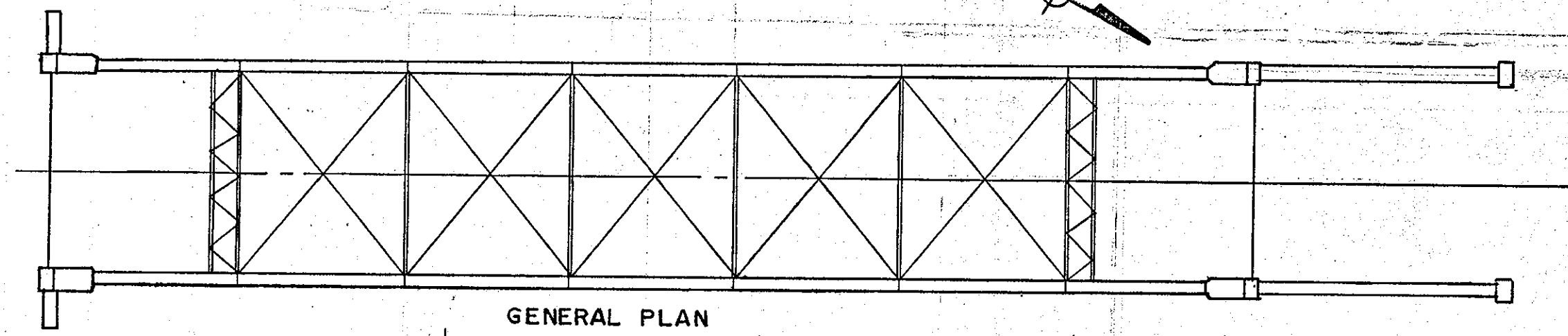
ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A

STRUCTURE DATA

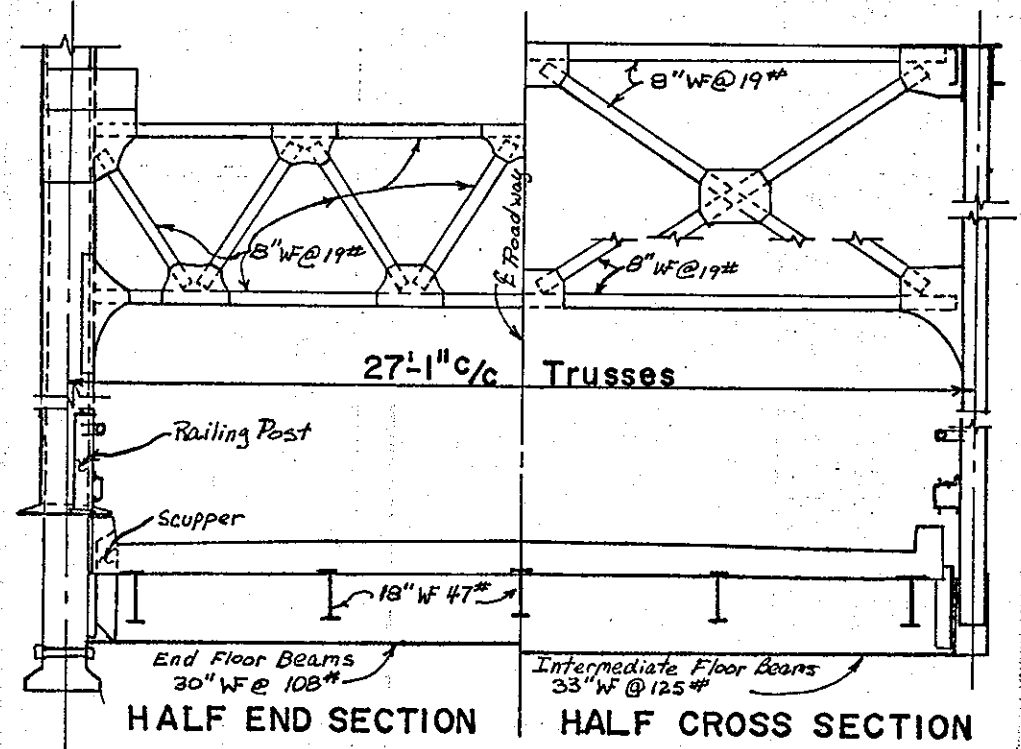
COUNTY-ROUTE-SECTION <b>TRU-5-0657R</b>	TYPE: <b>Steel Thru Truss</b>
SFN: 7800215	LENGTH: <b>479.75'</b>
NO. OF SPANS: 6	WIDTH: <b>40'-0" c/c Truss</b>
OVER: <b>ERIE R.R.</b>	RAIL: <b>Steel Combination</b>
WEIGHT OF STRUCTURAL STEEL: <b>535,800 lbs.</b>	



ELEVATION



GENERAL PLAN



HALF END SECTION

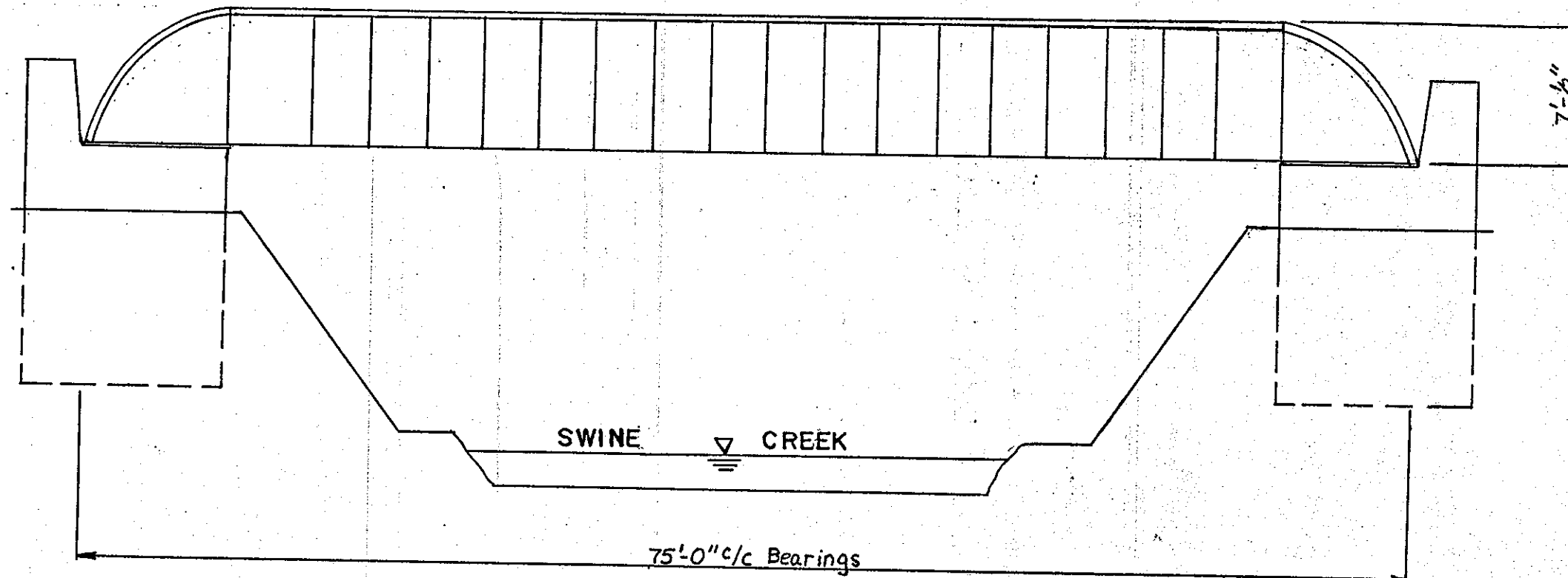
HALF CROSS SECTION

*Paint all structural steel*

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH-SYSTEM A

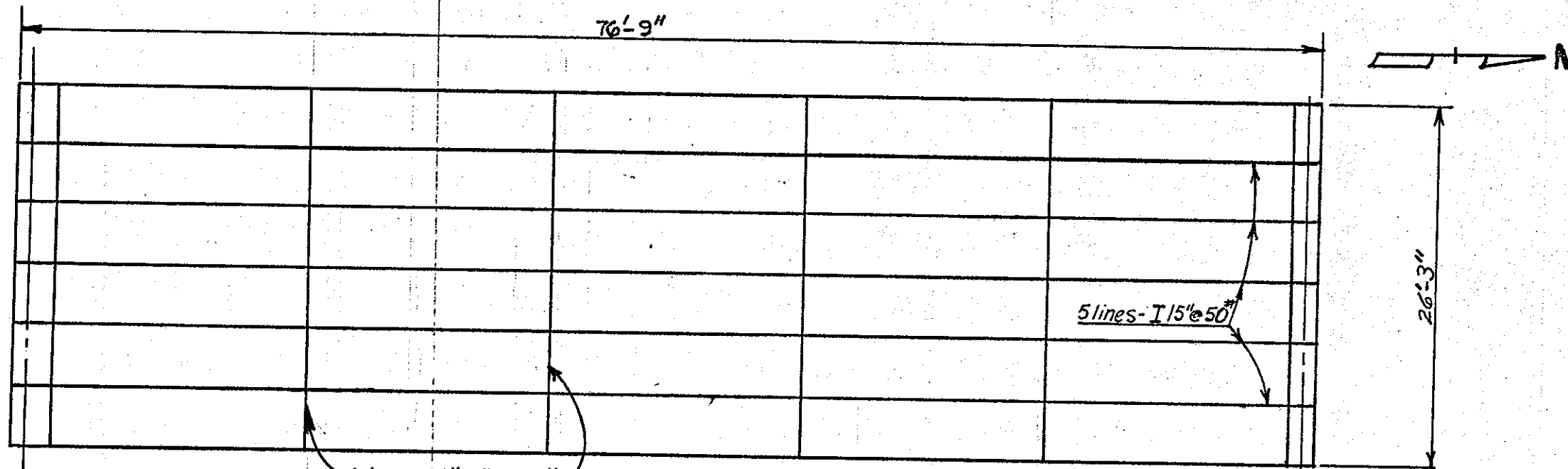
STRUCTURE DATA	
COUNTY-ROUTE-SECTION TRU-82-0524	TYPE: Steel Thru Truss
SFN: 7804563	LENGTH: 175'-10"
NO. OF SPANS: 1	WIDTH: 27'-1" c/c Trusses
OVER: MAHONING RIVER	RAIL: Var. Steel Sections
WEIGHT OF STRUCTURAL STEEL: 184,650 lbs.	



75'-0" c/c Bearings

ELEVATION

76'-9"



5 lines - I 15" @ 50#

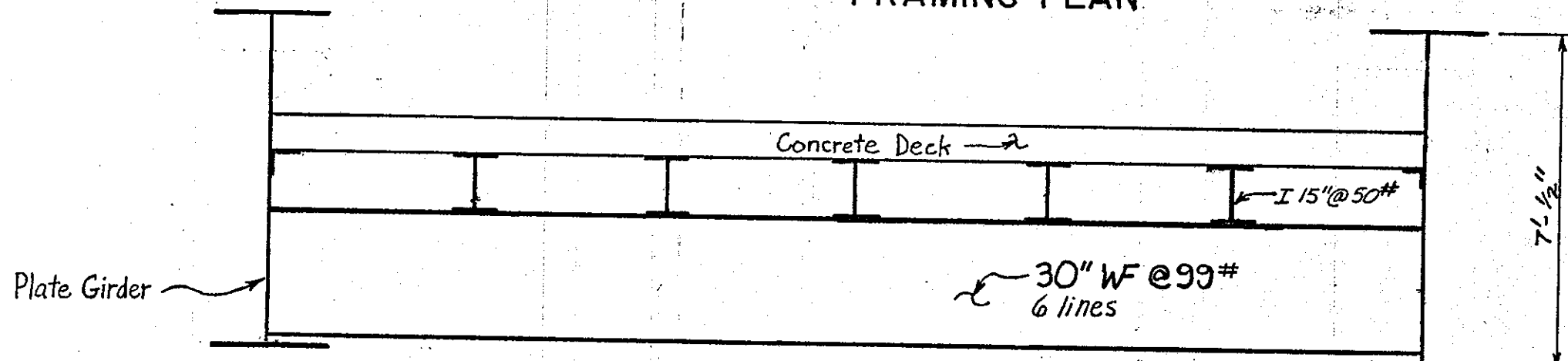
26'-3"

6 lines 30" WF @ 99#

FRAMING PLAN

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION (100% SA 2 1/2)
SPECIAL	LUMP	FULL PRIME - SYSTEM A
SPECIAL	LUMP	COMP. EPOXY INTERMEDIATE COAT
SPECIAL	LUMP	COMP. COAT FINISH - SYSTEM A



Concrete Deck

I 15" @ 50#

30" WF @ 99#  
6 lines

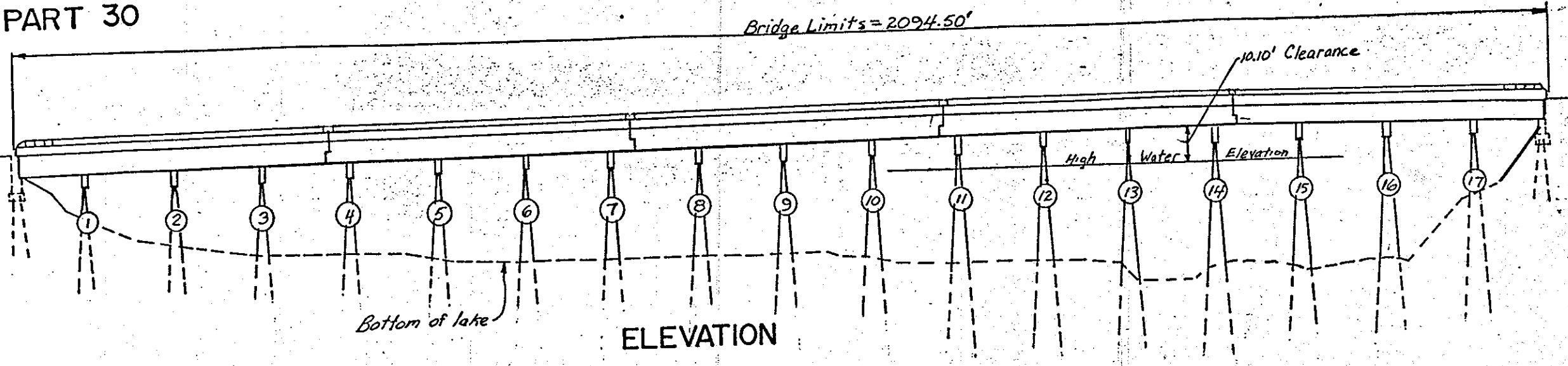
Plate Girder

7'-1/2"

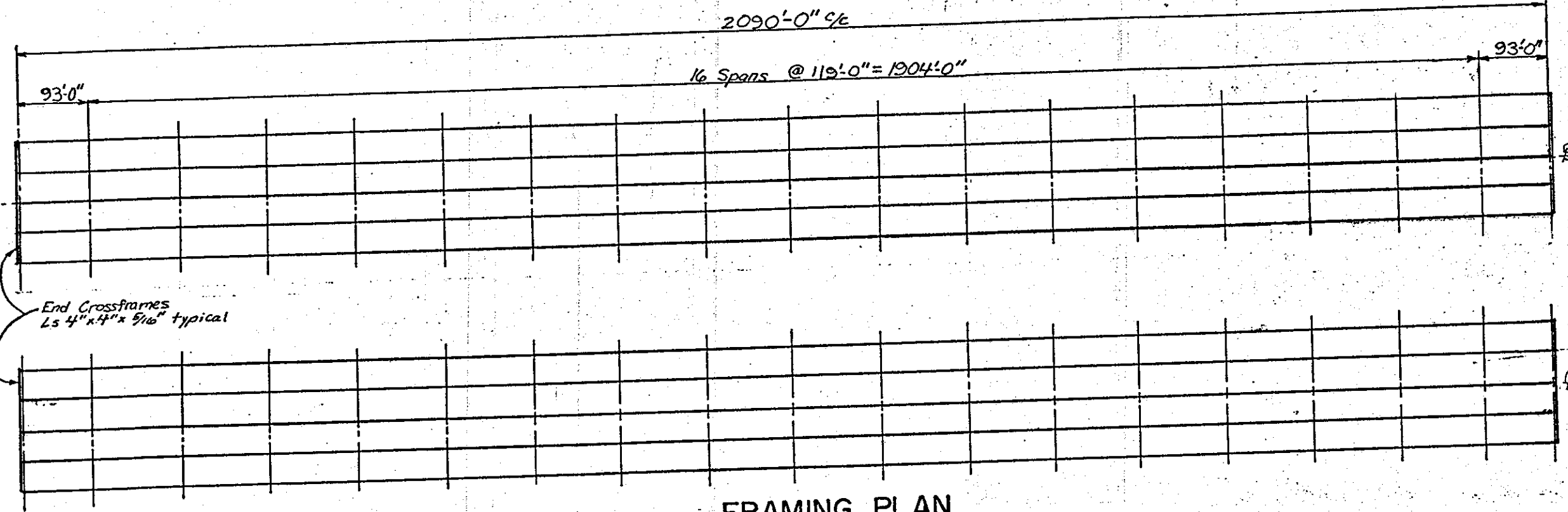
TRANSVERSE SECTION

STRUCTURE DATA	
COUNTY-ROUTE-SECTION TRU-534-2145	TYPE: Steel Thru Girder
SFN: 7807651	LENGTH: 76'-9"
NO. OF SPANS: 1	WIDTH: 26'-3" c/c Girder
OVER: SWINE CREEK	RAIL: None
WEIGHT OF STRUCTURAL STEEL: 70,000 lbs.	

Bridge Limits = 2094.50'



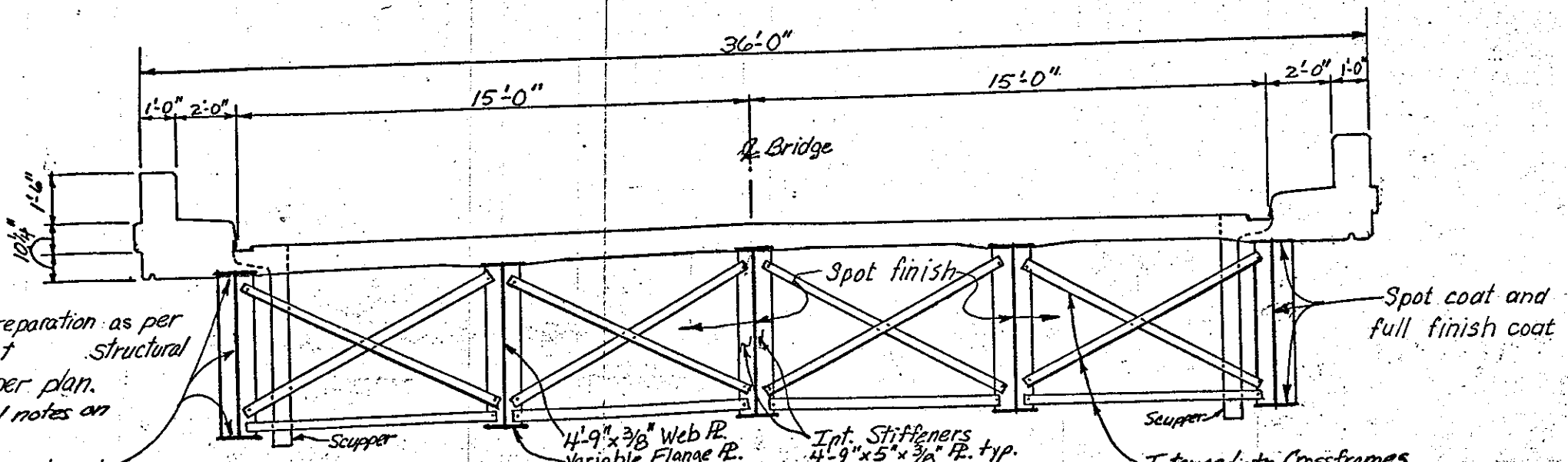
ELEVATION



FRAMING PLAN

ESTIMATED QUANTITIES

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP	SURFACE PREPARATION AS PER PLAN
SPECIAL	LUMP	SPOT COAT AS PER PLAN
SPECIAL	LUMP	FINISH COAT AS PER PLAN
SPECIAL	LUMP	POLLUTION CONTROL AS PER PLAN
SPECIAL	LUMP	BOAT FOR INSPECTION AS PER PLAN



TYPICAL CROSS SECTION

Surface preparation as per plan. Paint structural steel as per plan. See general notes on sheet 7.  
Spot coat and full finish coat

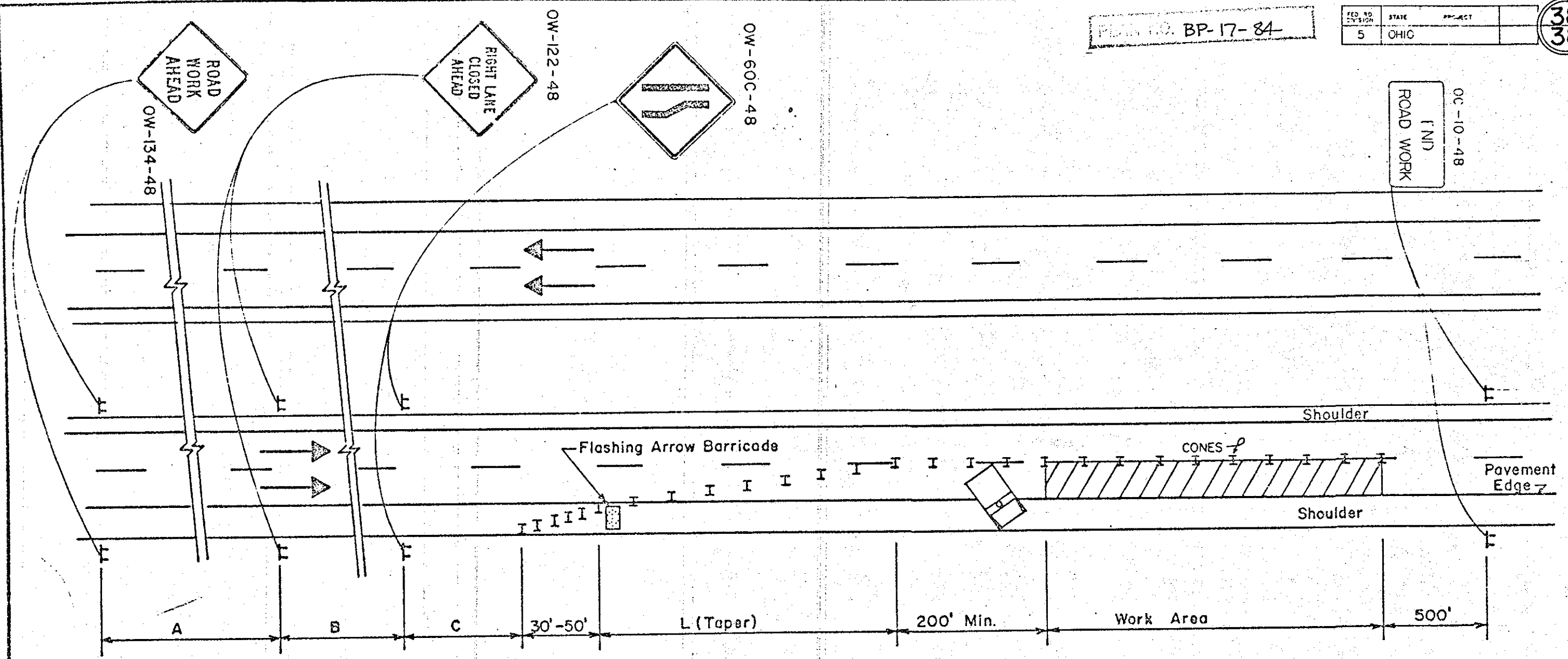
Rev. 1-18-85 RLE

STRUCTURE DATA	
COUNTY-ROUTE-SECTION MAH-76-0091 L&R	TYPE: Steel Girder
SFN:	LENGTH: 2094.50'
NO. OF SPANS: 18 (each)	WIDTH: 30'-0" curb/curb
OVER: LAKE MILTON	RAIL: Aluminum
WEIGHT OF STRUCTURAL STEEL: 6,043,770 lbs.	

PLAN NO. BP-17-84

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	

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**GENERAL NOTES**

- THIRTEEN (13) CONES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA, FIVE (5) CONES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA.
- WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, "OW-123-48" SIGNS SHALL BE SUBSTITUTED FOR "OW-122-48" SIGNS AND THE OW-600 SIGNS SHALL BE SUBSTITUTED FOR THE OW-60C SIGNS.

- THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE WHENEVER MEN ARE WORKING WITHIN THE WORK AREA.
- THE FLASHING ARROW BARRICADE SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON STANDARD DRAWING TC35.10
- SIGNS SHALL BE MOUNTED ON PORTABLE SIGN SUPPORTS WITH APPROPRIATE WEIGHTING AND SHALL BE IN ACCORDANCE WITH OM/TCD, CURRENT EDITION, LATEST REVISION.

DISTANCE	A	B	C	L
URBAN	200	200	200	425
RURAL STANDARD	300	300	300	600
FREEWAY AND EXPRESSWAY	2600	1600	1000	720

OHIO DEPARTMENT OF TRANSPORTATION	
CLOSING ONE LANE OF A FOUR LANE DIVIDED HIGHWAY	DATE 7/77
DR. GRD. CK. 7/8.	