

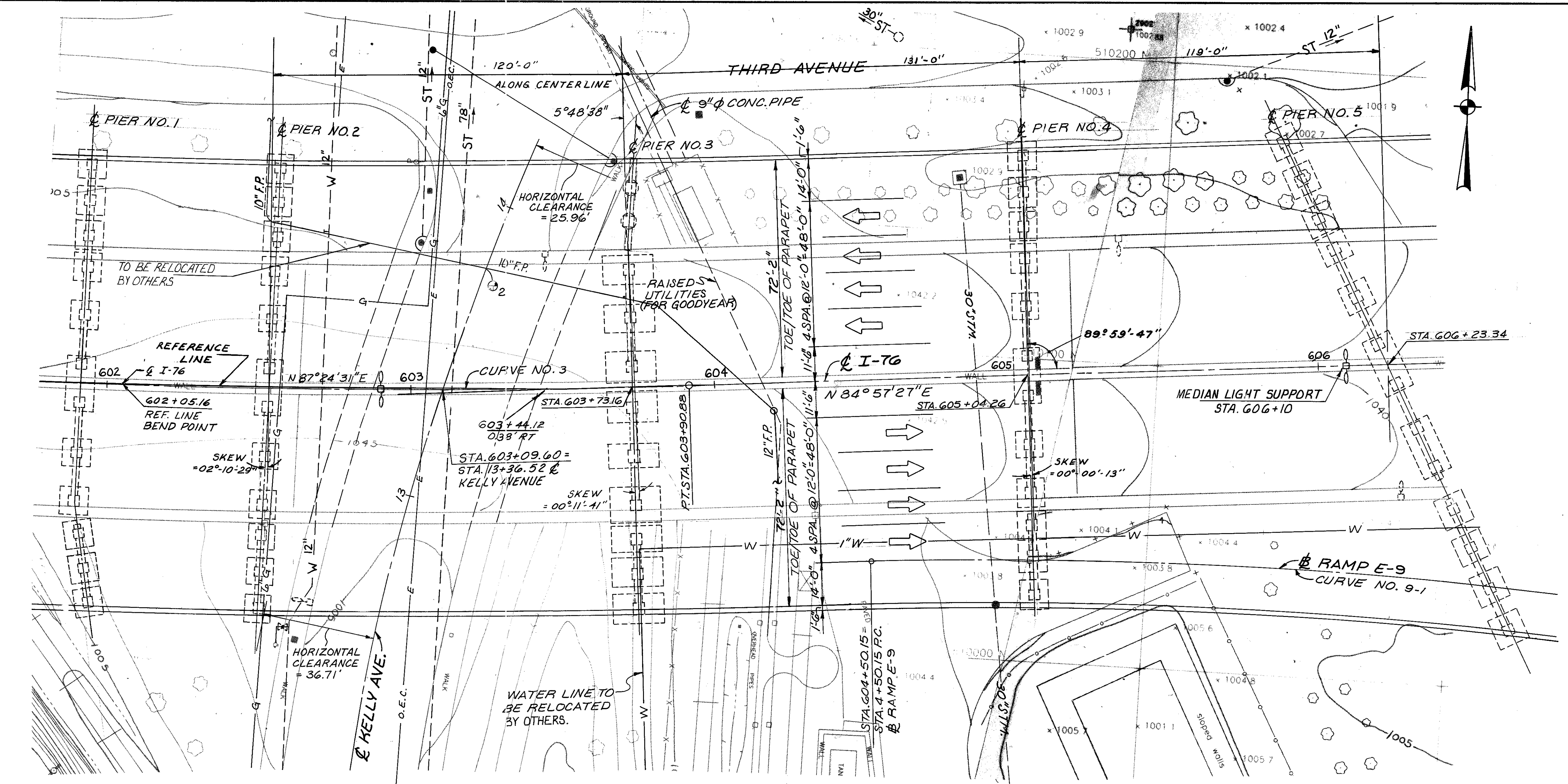
F.H.W.A. REG.	STATE	PROJECT
5	OHIO	

938
1214

SUMMIT COUNTY
SUM 76-11.57

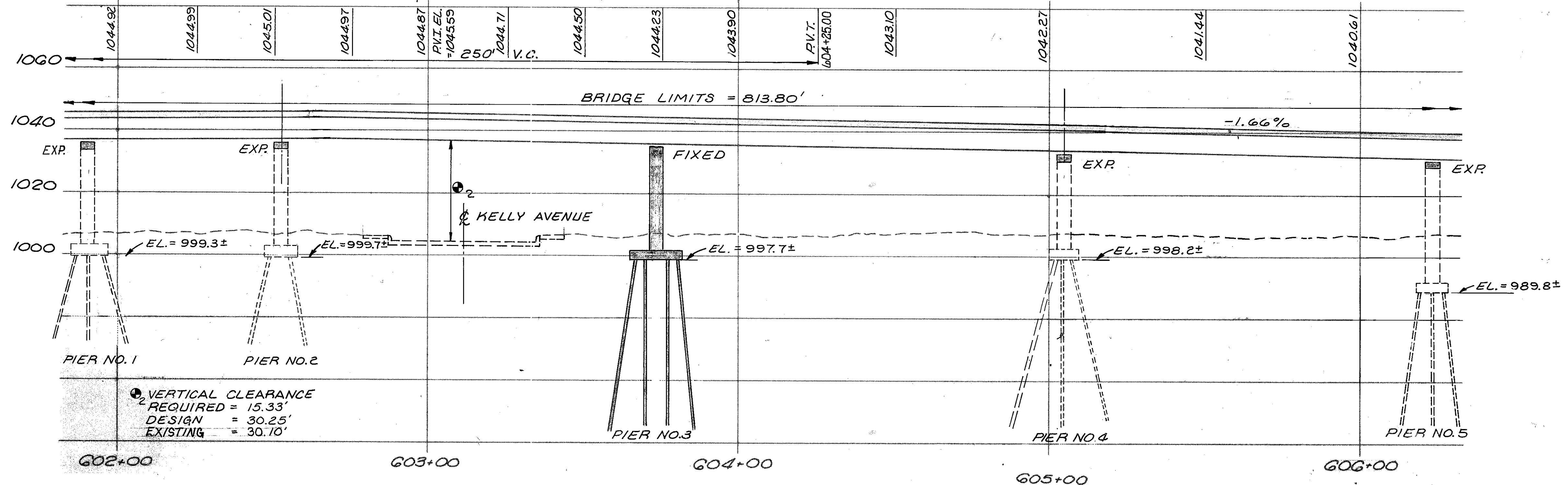
CURVE DATA

CURVE NO. 3	CURVE NO. 9-1
$\Delta = 21^{\circ}08'51''$	$\Delta = 15^{\circ}43'50''$
$D_c = 1^{\circ}58'30''$	$D_c = 4^{\circ}00'00''$
$R = 2901.052'$	$R = 1432.395'$
$L_c = 1070.759'$	$L_c = 393.262'$
$CH = 1064.692'$	$CH = 392.028'$



PIER PILES
PIERS 2, 3 SOUTH & 4
14" C.I.P. REINFORCED CONCRETE
EST'D PAY LENGTH = 27 L.F.

PIER 3 NORTH
66" DRILLED SHAFTS
EST'D PAY LENGTH = 50 L.F.



McCOY ASSOCIATES INC. 2/120
CONSULTING ENGINEERS
AKRON, OHIO

SITE PLAN
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT
SUMMIT COUNTY STA. 600+55.23
STA. 608+69.03

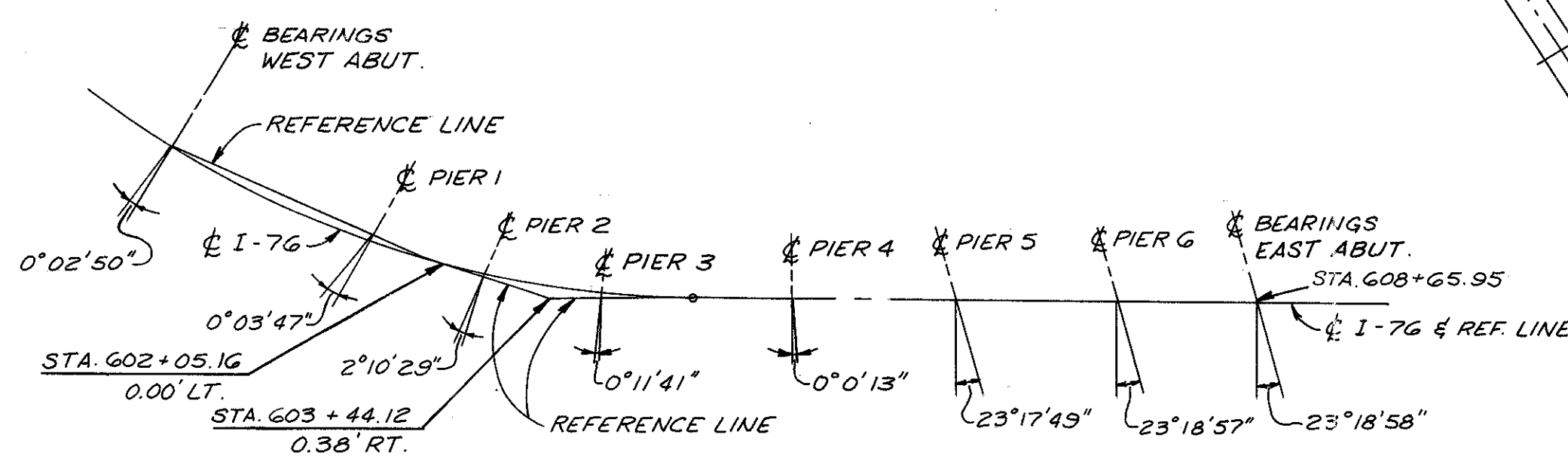
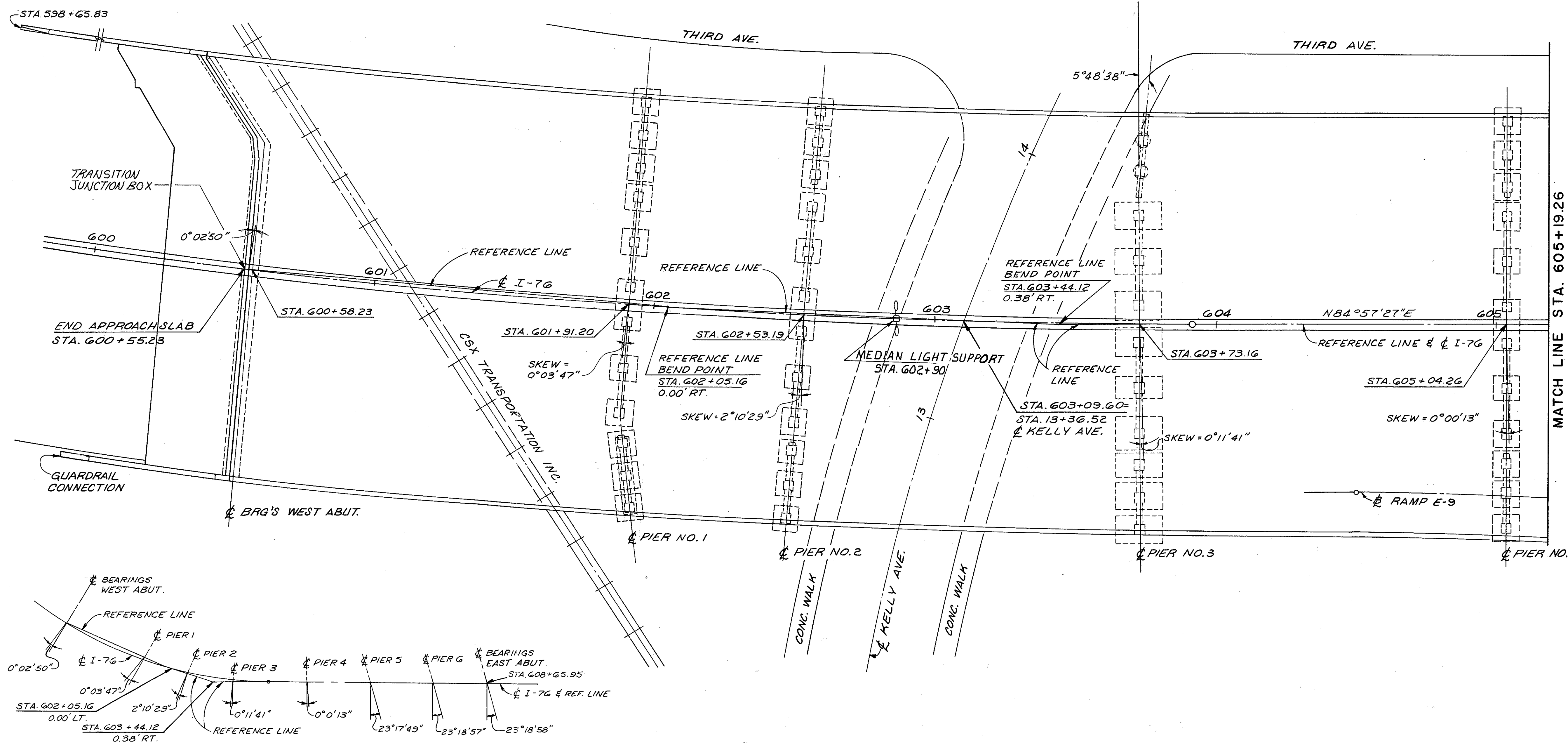
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK		JBH	JBH	3-30-89	

SUMMIT COUNTY
SUM 76-11.57



NOTES

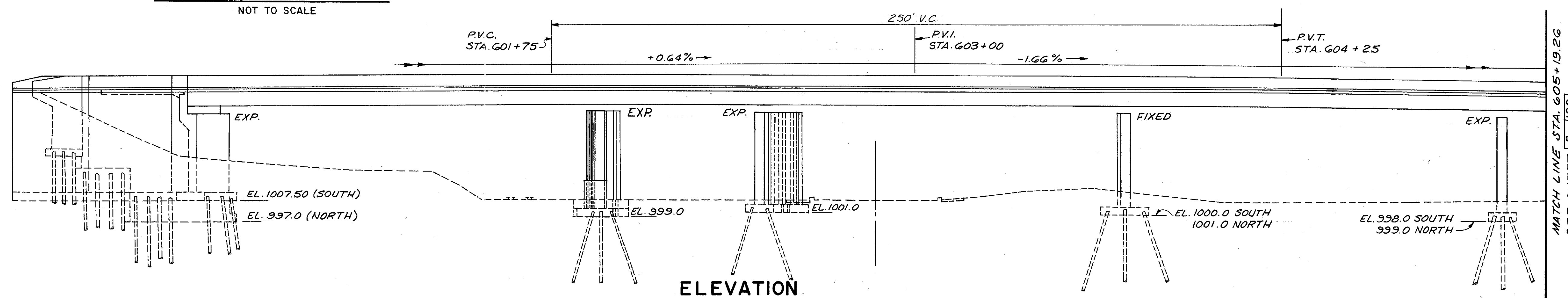
- FOR LIGHTING CONDUIT-EXPANSION FITTING, SEE STANDARD DRAWING HL-30.31.
- FOR TRANSITION JUNCTION BOX DETAILS, SEE SHEET 704.



REFERENCE LINE DIAGRAM

NOT TO SCALE

PLAN



ELEVATION

MATCH LINE STA. 605+19.26
SEE SHEET 5/120

McCOY ASSOCIATES INC. 4/120
CONSULTING ENGINEERS
AKRON, OHIO

GENERAL PLAN & ELEVATION

BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK		JBH	JBH	3-30-87	

FHWA REGION	STATE	PROJECT
5	OHIO	

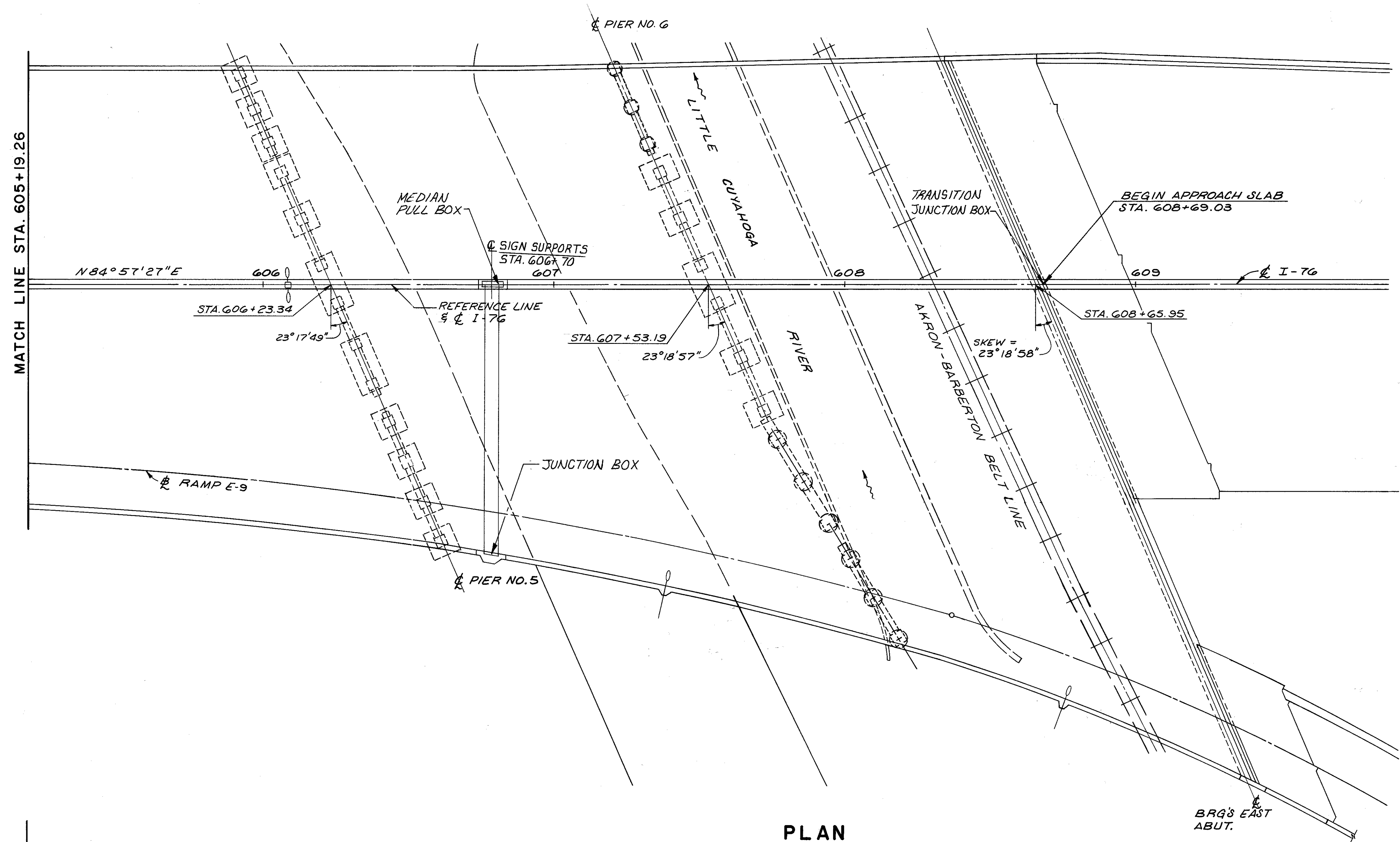
941
1214

SUMMIT COUNTY
SUM 76-II.57

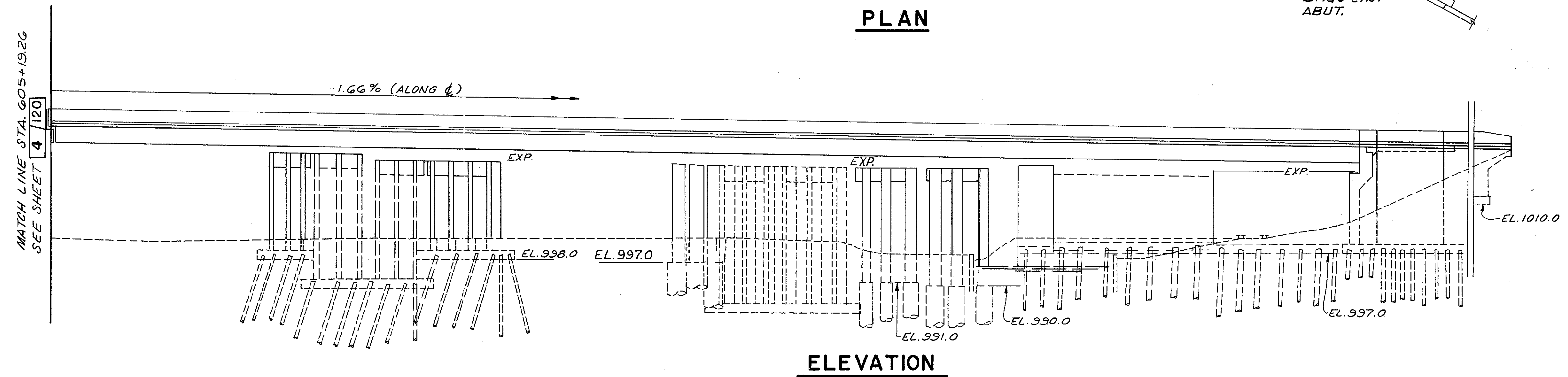


NOTES

- ① FOR LIGHTING CONDUIT EXPANSION FITTING, SEE STANDARD DRAWING HL-30.31.
- ② FOR TRANSITION JUNCTION BOX DETAILS, SEE SHEET 704.



PLAN



ELEVATION

MATCH LINE STA. 605+19.26
SEE SHEET 4 120

McCOY ASSOCIATES INC. 5/120
CONSULTING ENGINEERS
AKRON, OHIO

GENERAL PLAN & ELEVATION
BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK		JBH	JBH	3-30-89	

STRUCTURAL GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

942
1214

SUMMIT COUNTY
SUM. 76-11.57

REFERENCE

SHALL BE MADE TO STANDARD DRAWINGS:

AS-1-81 DATED 11-27-81
EXJ-4-81 DATED 01-05-89
RB-1-55 REVISED 02-02-59
SD-1-69 DATED 06-12-69

AND TO SUPPLEMENTAL SPECIFICATION:

836 DATED 11-12-85

DESIGN SPECIFICATIONS*

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1989 AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

DESIGN LOADING - HS 20-44 (CASE I) AND ALTERNATE MILITARY LOADING
CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 PSI
CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 PSI
REINFORCING STEEL - ASTM A615, A616, OR A617 - GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI
STRUCTURAL STEEL - ASTM A36, UNIT STRESS 20,000 PSI
PROPOSED
STRUCTURAL STEEL - ASTM A7 OR A373, UNIT STRESS 18,000 PSI
EXISTING

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL, BOTH MATS.
CONCRETE PROTECTION: PARAPETS

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.02.

PLANS OF EXISTING STRUCTURE ARE AVAILABLE AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT FOUR, 705 OAKWOOD STREET, RAVENNA, OHIO 44266, FOR THE CONTRACTOR'S EXAMINATION.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

REPLACEMENT OF EXISTING REINFORCING STEEL

ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST. ANY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL. AN ALLOWANCE OF 5000 POUNDS IS INCLUDED IN ITEM 509, EPOXY COATED REINFORCING STEEL, GRADE 60, FOR THIS PURPOSE.

PORTIONS OF STRUCTURES REMOVED

REMOVAL OF PORTIONS OF EXISTING STRUCTURE AS SHOWN ON THE CONTRACT DRAWINGS SHALL CONFORM IN ALL RESPECTS TO ITEM 202 OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL PREPARE DETAILED PROCEDURES AND PLANS FOR REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE INCLUDING METHODS OF PROTECTING EXISTING OR RELOCATED UTILITIES AND PROTECTING THE PEDESTRIAN AND THE VEHICULAR TRAFFIC WITHIN THE LIMITS OF THE PROJECT. SUCH PLANS SHALL INCLUDE INFORMATION AS TO EQUIPMENT AND MATERIALS TO BE USED, PERSONNEL, SUPERVISION, THE HOURS OF OPERATION AND DURATION OF THE JOB. THE PROTECTION OF UTILITY LINES SHALL INCLUDE THOSE LINES OWNED BY GOODYEAR.

THIS WORK SHALL INCLUDE ASPHALT WEARING COURSES; CONCRETE DECK; WALKWAYS; PARAPETS; RAILING; RAILING CONNECTION MEMBERS; GIRDERS G&H; FLOORBEAMS, STIFFENERS, CROSSFRAMES AND CONNECTION MEMBERS BETWEEN GIRDERS G&H; BEARINGS FOR GIRDERS G&H; FINGER JOINT ASSEMBLIES; ABUTMENT BACKWALLS; TOP OF WINGWALLS AS SHOWN ON THE DETAIL PLANS; EXPANSION ROLLERS AT GIRDERS F THRU L; AND EXISTING PIER No. THREE.

THESE PLANS SHALL BE APPROVED BY THE ENGINEER AND RAILROADS BEFORE COMMENCING ANY DEMOLITION OPERATION. THE REVIEW AND APPROVAL BY THE ENGINEER AND RAILROADS SHALL NOT RELIEVE THE CONTRACTOR OF HIS FULL RESPONSIBILITY FOR SAFE DEMOLITION OPERATIONS. THE CONTRACTOR SHALL BE AND SHALL REMAIN RESPONSIBLE FOR A SAFE DEMOLITION OPERATION.

PILE DESIGN LOADS

THE DESIGN LOAD FOR THE ABUTMENT PILES IS 58 TONS PER PILE, THE DESIGN LOAD FOR THE WINGWALL PILES IS 58 TONS PER PILE AND THE DESIGN LOAD FOR THE PIER PILES IS 55 TONS PER PILE.

MAINTENANCE OF TRAFFIC

REFER TO SHEETS NUMBERED 21 THRU 88 OF THE MAINTENANCE OF TRAFFIC PLANS.

UTILITY LINES

ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNER(S). THE CONTRACTOR AND OWNER(S) ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM. THE CONTRACTOR SHALL TREAT THE UTILITY LINES OWNED BY GOODYEAR CORPORATION THE SAME AS ALL OTHER UTILITIES.

CUTTING OR BENDING OF REINFORCING BARS

ANY CUTTING OR BENDING OF REINFORCING BARS NECESSARY TO ACCOMMODATE THE UTILITY OPENINGS OR ANY OTHER ESSENTIAL ELEMENT OF WORK RELATED TO THE PROJECT, SHALL BE INCLUDED IN THE PRICE BID PER POUND FOR "ITEM 509 - REINFORCING STEEL-GRADE 60," AND/OR "ITEM 509 - EPOXY COATED REINFORCING STEEL, GRADE 60," UNLESS OTHERWISE NOTED.

ITEM 202 - REMOVAL FOR REUSE OF EXISTING STEEL BEARINGS

EXISTING STEEL BEARINGS SHALL BE REMOVED FOR REUSE. CARE SHALL BE EXERCISED IN REMOVING SOLE PLATES FOR REUSE WHERE REQUIRED.

GIRDERS AND PLATES SHALL BE GROUND SMOOTH PRIOR TO REWELDING OF SOLE PLATES.

ITEM SPECIAL - RAISING EXISTING STRUCTURAL STEEL

THIS ITEM CONSISTS OF THE FOLLOWING:

- SUBMIT A DESCRIPTION OF THE METHODS AND EQUIPMENT TO BE USED FOR REVIEW AND APPROVAL BY THE DIRECTOR. THE REVIEW AND APPROVAL BY THE DIRECTOR SHALL NOT RELIEVE THE CONTRACTOR OF HIS FULL RESPONSIBILITY FOR SAFE OPERATIONS.
- RAISING THE EXISTING STRUCTURAL STEEL GIRDERS AND OTHER STRUCTURAL STEEL COMPONENTS INCLUDING FLOOR BEAMS, STRINGERS AND FRAMING THAT ARE TO REMAIN IN THE PROPOSED STRUCTURE TO AN ELEVATION ABOVE THE PROPOSED LOCATION TO PERMIT CONSTRUCTION OF NEW PEDESTALS AND THE REMOVAL OF EXISTING BEARING WHERE THEY ARE TO BE REPLACED. ALL GIRDERS IN A UNIT SHALL BE RAISED SIMULTANEOUSLY AT A UNIFORM RATE. REMOVAL OF EXISTING SLAB, EXPANSION JOINT FINGER PLATES AND EXTERIOR RAILING SHALL BE COMPLETED PRIOR TO JACKING OF THE GIRDERS.

MEASUREMENT AND PAYMENT

PAYMENT WILL BE MADE AT THE CONTRACT LUMP SUM PRICE BID FOR "ITEM SPECIAL - RAISING EXISTING STRUCTURAL STEEL" AND SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED HEREIN.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES, EPOXY

SPECIFIED CONCRETE SURFACES SHALL BE PROTECTED USING MATERIALS SPECIFIED IN THE PROPOSAL, SEE SHEET NO. 6/120 FOR DETAIL OF AREAS TO BE PROTECTED. SEE THE PROPOSAL FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION, RATES, MATERIAL REQUIREMENTS, APPLICATION PROCEDURES AND MEASUREMENT AND PAYMENT. *

ITEM 510 - DOWEL HOLES

THIS ITEM SHALL BE PERFORMED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND SHALL BE USED TO REPLACE THE DETERIORATED BARS WHICH WERE TO REMAIN, OR PLACING NEW DOWEL BARS WHERE A NEW CONCRETE SECTION IS BEING ATTACHED TO THE REMAINING PORTIONS OF EXISTING CONCRETE. AN ALLOWANCE OF 500 DOWEL HOLES IS INCLUDED IN THE ESTIMATED QUANTITY OF ITEM 510 IN REPLACING DETERIORATED BARS.

THE DOWEL BARS ARE TO BE PAID FOR UNDER "ITEM 509 - EPOXY COATED REINFORCING STEEL, GRADE 60" AND THE DOWEL HOLES ARE TO BE PAID FOR UNDER "ITEM 510 - DOWEL HOLES".

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 507 14 INCH CAST-IN-PLACE REINFORCED CONCRETE PILES AS PER PLAN, PILE WALL THICKNESS

THE RESPONSIBILITY OF CHOOSING AND PROVIDING A SATISFACTORY PILE WALL THICKNESS FOR THIS PROJECT SHALL BE BORNE BY THE CONTRACTOR EXCEPT THAT THE PILE WALL THICKNESS SHALL NOT BE LESS THAN 0.25 INCHES. IF A PILE WALL THICKNESS GREATER THAN 0.25 INCHES IS NECESSARY TO RESIST THE PILE INSTALLATION DRIVING STRESS, THE CONTRACTOR SHALL MAKE THIS DETERMINATION AND SHALL FURNISH A PILE WITH AN ACCEPTABLE WALL THICKNESS. MONOTUBE PILES ARE NOT REQUIRED TO COMPLY WITH THE ABOVE SPECIFIED MINIMUM PILE WALL THICKNESS. IF MONOTUBE PILES ARE USED, THE PILE WALL THICKNESS SHALL NOT BE LESS THAN 0.200 INCHES AND THE PILES SHALL SATISFY ALL THE REQUIREMENTS OF 507.

PILE HAMMER

THE PILE HAMMER USED TO INSTALL THE CAST-IN-PLACE REINFORCED CONCRETE PILES SHALL HAVE A STATE'S ENERGY RATING OF NOT LESS THAN 18,000 FOOT-POUNDS. THIS REQUIREMENT DOES NOT RELIEVE THE CONTRACTOR FROM 108.05 WHICH STATES THAT THE CONTRACTOR IS TO PROVIDE SUFFICIENT EQUIPMENT FOR PROSECUTING THE REQUIRED WORK. REFER TO "ODOT'S MANUAL OF PROCEDURES FOR STRUCTURES" TO OBTAIN THE STATE'S ENERGY RATING.

ITEM 518 POROUS BACKFILL with Filter Fabric

TO ENSURE THAT ANY FINE SOIL PARTICLES INCLUDED WITHIN THE EMBANKMENT TO BE PLACED BEHIND THE REAR AND FORWARD ABUTMENT DO NOT MIGRATE INTO AND THROUGH THE VOIDS OF THE POROUS BACKFILL MATERIAL LOCATED BEHIND THE REAR AND FORWARD ABUTMENT, FILTER FABRIC, 712.09 TYPE A, SHALL BE PLACED BETWEEN THE 518 POROUS BACKFILL MATERIAL AND THE 203 EMBANKMENT MATERIAL TO THE LIMITS AS SHOWN IN THE PLANS. PAYMENT FOR THE FILTER FABRIC SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD FOR THE ITEM 518 POROUS BACKFILL with Filter Fabric, WHICH SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

* THE COLOR SPECIFICATION OF THE EPOXY SEALER SHALL BE IN ACCORDANCE WITH THE FEDERAL STANDARD 595A AND THE COLOR OF THE EPOXY SEALER SHALL BE NO. 13522.

McCoy ASSOCIATES, INC. 5A / 120					
CONSULTING ENGINEERS AKRON, OHIO					
STRUCTURAL GENERAL NOTES					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JBH	JWD		JGC	JBH	11-13-91

STRUCTURAL GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

943
1214

SUMMIT COUNTY
SUM. 76-11.57

ITEM 506 STATIC LOAD TEST, AS PER PLAN

THE CONTRACTOR SHALL PERFORM A STATIC LOAD TEST ON ONE OF THE INITIALLY INSTALLED PIER PILES OR ON A PILE INSTALLED NEAR AN ABUTMENT OR PIER LOCATION. THE INSTALLED LENGTHS OF THE PILES TO BE LOAD TESTED SHALL NOT BE MORE THAN THE PLAN ESTIMATED PAY LENGTHS. THE CONTRACTOR SHALL FURNISH THE DIRECTOR (ATTENTION: BUREAU OF BRIDGES) A COPY OF A TYPED REPORT DESCRIBING THE PROCEDURES AND RESULTS OF THE STATIC LOAD TEST. PAYMENT FOR THIS REPORT IS CONSIDERED INCIDENTAL TO THE COST OF THE STATIC LOAD TEST.

ABUTMENT WALL TEXTURE

ABUTMENTS AND WINGWALLS SHALL BE TEXTURED BY USING FORM LINERS ATTACHED TO FORMWORK PRIOR TO PLACING CONCRETE, AREAS TO RECEIVE TEXTURED CONCRETE SURFACE SHALL INCLUDE THE FULL LENGTH OF EXPOSED ABUTMENT BREAST WALLS AND WINGWALLS FROM FINISHED GRADE OR PAVEMENT TO THE TOP OF THE WALL.

TEXTURED SURFACE SHALL CONSIST OF A 3/4" DEEP FRACTURED FIN TEXTURE. ACCEPTABLE PRODUCTS INCLUDE:

SYMONS CORPORATION 7603 OLD ROCKSIDE RD. INDEPENDENCE, OH 44131 (216) 524-5240 PATTERN NO. P/C 30449	GREENSTREAK 3400 TREE COURT IND. BLVD. ST. LOUIS, MO 63122 (800) 325-9504 PATTERN NO. 373
--	---

FITZGERALD CONSTRUCTION SALES
17376-A NEWHOPE AVENUE
FOUNTAIN VALLEY, CA 92708
(800) 227-2755
PATTERN NO. 16950

OR AN APPROVED ALTERNATE. THE CONTRACTOR SHALL SUBMIT A SAMPLE OF THE FINISHED CONCRETE TEXTURED SURFACE FOR APPROVAL.

PAYMENT FOR ALL MATERIALS AND LABOR REQUIRED FOR THE TEXTURED SURFACES SHALL BE INCLUDED WITH ITEM 511 - CLASS C CONCRETE, ABUTMENTS, AS PER PLAN.

ITEM SPECIAL - PAINTING OF NEW STEEL, SYSTEM IZEU

ALL OF THE REQUIREMENTS CONTAINED IN THE "PAINTING OF NEW STEEL, SYSTEM IZEU" PROPOSAL NOTE SHALL APPLY.

THE COLOR OF URETHANE FINISH COAT SHALL BE "DARK BROWN" FEDERAL SPECIFICATION NUMBER 595A 10080. THE COLOR OF EPOXY INTERMEDIATE COAT SHALL BE "TAN" FEDERAL SPECIFICATION NUMBER 595A10219. AN ACTUAL SAMPLE OF THE PAINT PROPOSED FOR USE SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL.

ITEM SPECIAL - FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU

ALL OF THE REQUIREMENTS CONTAINED IN THE "FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU" PROPOSAL NOTE SHALL APPLY.

THE COLOR OF URETHANE FINISH COAT SHALL BE "DARK BROWN" FEDERAL SPECIFICATION NUMBER 595A 10080. THE COLOR OF EPOXY INTERMEDIATE COAT SHALL BE "TAN" FEDERAL SPECIFICATIONS NUMBER 595A10219. AN ACTUAL SAMPLE OF THE PAINT PROPOSED FOR USE SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL.

REINFORCING STEEL SAMPLES

REFER TO CMS SECTION 106.03, 709.01 THROUGH 709.03 AND 709.08. SUFFICIENT REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURE BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

ITEM 513 - STRUCTURAL STEEL FOR REHABILITATION, AS PER PLAN

STRUCTURAL STEEL UNDER THIS ITEM WILL NOT REQUIRE SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL MAKE NECESSARY MEASUREMENTS AND PREPARE SKETCHES, DRAWINGS, TABLES, ETC. THE ENGINEER SHALL HAVE AUTHORITY AND RESPONSIBILITY FOR ENSURING THAT THE FABRICATED STEEL IS ACCEPTABLE. TECHNICAL ASSISTANCE WILL BE PROVIDED ON REQUEST BY THE BUREAU OF BRIDGES. MILL TEST REPORTS AND SHIPPING DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INCORPORATING STEEL ITEMS INTO THE WORK, AS REQUIRED BY 501.07. AFTER FABRICATION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL TO ENSURE THAT THE DRAWINGS DEPICT THE STEEL AS ACTUALLY INCORPORATED INTO THE WORK. THE ENGINEER WILL THEN SEND ONE APPROVED SET TO THE BUREAU OF BRIDGES FOR INFORMATION. PAY WEIGHTS SHALL BE COMPUTED IN COMPLIANCE WITH 513 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SUBMITTED TO THE ENGINEER FOR HIS REVIEW AND APPROVAL. THE FABRICATOR SHALL FURNISH A 35 MILLIMETER MICROFILM COPY OF EACH SHOP DRAWING, WHICH SHALL BE MOUNTED ON AN APERTURE CARD AS SPECIFIED IN 501.05.

A QUANTITY OF 20,000 POUNDS HAS BEEN INCLUDED IN ITEM 513, STRUCTURAL STEEL FOR REHABILITATION, A36, AS PER PLAN TO BE USED AS DIRECTED BY THE ENGINEER FOR REPLACEMENT OF EXISTING END FRAMES, CROSS FRAMES AND STIFFENERS TO REMAIN IN PLACE.

PAYMENT SHALL INCLUDE REMOVAL OF DETERIORATED MEMBERS AND ALL MATERIAL, EQUIPMENT AND LABOR REQUIRED TO PROVIDE REPLACEMENT IN KIND.

EXISTING RIVET AND STRUCTURAL STEEL REMOVAL

EXISTING RIVETS THAT ARE IN HOLES USED TO CONNECT NEW MATERIAL TO EXISTING MATERIAL, EXISTING RIVETS THAT MUST BE REMOVED TO REMOVE EXISTING STEEL, AND RIVETS DIRECTED TO BE REMOVED BY THE ENGINEER SHALL BE REMOVED WITH CARE.

ALL EXISTING RIVETS TO BE REMOVED SHALL FIRST HAVE THE HEADS CUT OFF AND THEN THE REMAINDER OF THE RIVET REMOVED BY DRILLING. PUNCHING MAY BE USED TO REMOVE LOOSE FITTING SHANKS. RIVET REMOVAL METHODS SHALL NOT DAMAGE BASE MATERIAL THAT IS TO REMAIN IN PLACE. BURNING THROUGH THE RIVET SHANK IS NOT AN ACCEPTABLE REMOVAL METHOD. THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED RIVET REMOVAL METHOD FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.

EXISTING STRUCTURAL STEEL WHICH IS INDICATED TO BE REMOVED BY CUTTING MAY BE FLAME CUT TO STRAIGHT LINES. ALL FLAME CUT EDGES SHALL BE GROUND SMOOTH. ALL OTHER STRUCTURAL STEEL SHALL BE REMOVED BY DISCONNECTING BY REMOVAL OF EXISTING RIVETS. ANY DAMAGE TO EXISTING MATERIAL TO REMAIN IN PLACE DUE TO THE CONTRACTOR'S REMOVAL OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE COST OF THE CONTRACTOR.

PAYMENT FOR RIVET REMOVAL PROCEDURES, AND CAREFUL STRUCTURAL STEEL REMOVAL SHALL BE INCLUDED WITH ITEM 202-PORCTIONS OF STRUCTURE REMOVED.

BOLTED CONNECTION TO EXISTING STEEL

AT LOCATIONS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER, NEW STRUCTURAL STEEL SHALL BE CONNECTED TO EXISTING STRUCTURAL STEEL USING EXISTING RIVET OR BOLT HOLES AND NEW BOLTS. RIVET REMOVAL PROCEDURES ARE DESCRIBED IN THE GENERAL NOTE ABOVE.

PAYMENT FOR RIVET OR BOLT REMOVAL IS INCLUDED WITH ITEM 202-PORCTIONS OF STRUCTURE REMOVED. HOLES IN NEW MATERIAL SHALL BE MADE BY ANY OF THE FOLLOWING METHODS (TO BE SELECTED BY THE CONTRACTOR):

- CAREFUL FIELD MEASUREMENTS AND EXAMINATION OF EXISTING SHOP DRAWINGS BY THE CONTRACTOR SHALL BE USED FOR LOCATING HOLES IN NEW MATERIAL TO BE SUBPUNCHED OR DRILLED UNDERSIZE IN THE SHOP. THE HOLE SHALL BE 3/16 INCH LESS IN DIAMETER THAN THE NOMINAL DIAMETER OF THE NEW BOLT. THE HOLES SHALL BE REAMED TO PROPER SIZE IN THE FIELD AFTER FIT-UP TO THE EXISTING RIVET OR BOLT HOLES.
- MAKE TEMPLATES IN THE FIELD OF HOLE PATTERNS AND LOCATIONS AFTER REMOVAL OF RIVETS OR BOLTS. USE THE FIELD TEMPLATES IN THE SHOP TO PUNCH OR DRILL STANDARD SIZE HOLES. THE HOLES SHALL BE REAMED IN THE FIELD AFTER FIT-UP TO THE EXISTING RIVET OR BOLT HOLES.
- FURNISH NEW STRUCTURAL STEEL WITHOUT SHOP HOLES FOR CONNECTION TO EXISTING RIVET OR BOLT HOLES. HOLES IN NEW MATERIAL TO BE FIELD DRILLED AND REAMED TO MATCH EXISTING RIVET OR BOLT LOCATION.

RIVET HOLES NOT USED FOR BOLTED CONNECTIONS SHALL BE LEFT OPEN. EXISTING MATERIAL WITHOUT HOLES FOR CONNECTION TO NEW MATERIAL SHALL BE FIELD DRILLED.

ALL HOLES THROUGH NEW AND EXISTING MATERIAL SHALL BE REAMED AFTER ASSEMBLY. THE FINAL HOLES MAY BE OVERSIZED: 3/16 INCH MORE IN DIAMETER FOR 7/8 INCH AND LESS NOMINAL DIAMETER BOLTS; AND 1/4 INCH MORE IN DIAMETER FOR 1 INCH NOMINAL DIAMETER BOLTS. HARDENED WASHERS SHALL BE USED ON BOTH SIDES OF OVERSIZED HOLES.

ADDITIONAL REQUIREMENTS FOR HOLES SHALL BE PER 513.14. SHOP HOLES THAT DO NOT MATCH EXISTING RIVET HOLES SHALL BE FIELD DRILLED.

EXISTING MATERIAL SHALL BE CLEANED AND PRIME PAINTED BEFORE CONNECTING NEW MATERIAL.

THE COST OF ALL MATERIAL, EQUIPMENT AND LABOR FOR CONNECTING NEW MATERIAL TO EXISTING MATERIAL SHALL BE INCLUDED AS INCIDENTAL TO THE PERTINENT NEW MATERIAL PAY ITEM.

SHOP ASSEMBLY OF STRUCTURAL STEEL (ITEM 513)

STRUCTURAL STEEL FOR THE EASTBOUND WIDENING IN (FROM FIELD SPLICE 14'-5" EAST OF PIER 4 TO THE EAST ABUTMENT) SHALL BE FIT-UP IN THE SHOP IN SECTIONS PRIOR TO SHIPPING. FIT-UP SHALL BE MADE OF THE LONGEST OVERLAPPING SECTIONS POSSIBLE BASED ON AVAILABLE SPACE WITH THE FOLLOWING SECTIONS AS MINIMUM LENGTHS:

- SECTION 1 - FIELD SPLICE TO GIRDER BB BEND POINT NO. 2
GIRDERS R,S,T & BB
- SECTION 2 - GIRDER BB BEND POINTS NO. 1 TO NO. 3
GIRDERS R,S,T,U & BB
- SECTION 3 - GIRDER BB BEND POINTS NO. 2 TO NO. 4
GIRDERS S,T,U,V,W,X & BB
- SECTION 4 - GIRDER BB BEND POINT NO. 3 TO EAST ABUTMENT
GIRDERS T,U,V,W,X,Z,AA & BB

THE ABOVE WORK SHALL BE INCLUDED IN ITEM 513, STRUCTURAL STEEL (AISC CATEGORY III), AS PER PLAN FOR PAYMENT.

SEQUENCE OF CONSTRUCTION

THE REQUIRED ITEMS OF WORK TO BE PERFORMED FOR REMOVAL OF PORTIONS OF EXISTING STRUCTURE AND THE WIDENING AND REHABILITATION CONSTRUCTION SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

PHASE 2 CONSTRUCTION

- A. INSTALL TEMPORARY TRAFFIC BARRIER TO DIVERT TRAFFIC TO THE CENTER OF THE BRIDGE. (SEE MAINTENANCE OF TRAFFIC PLANS)
- B. REMOVE PORTIONS OF SLABS & APPROACH SLABS, PORTIONS OF ABUTMENT BACKWALLS, ALL WINGWALLS, THE 2 EXTERIOR STEEL GIRDERS AT THE SOUTHEAST RAMP, EXISTING SIDEWALKS AND SUPPORTS AND END DAM ANGLES AS SHOWN ON THE PLANS. (SEE SHEETS 13/120 THRU 24/120)
- C. DRIVE PILING, PLACE DRILLED SHAFTS, CONSTRUCT NEW PORTIONS OF ABUTMENTS AND PIERS, PLACE NEW GIRDERS, INSTALL NEW END CROSSFRAMES AND INTERMEDIATE CROSSFRAMES, PLACE NEW BEARINGS, PLACE EXTERIOR PORTIONS OF DECK SLABS, BACKWALLS, APPROACH SLABS AND REPAIR ABUTMENTS AND PIERS AS SHOWN ON PLANS.

McCOY ASSOCIATES, INC. 5B/120
CONSULTING ENGINEERS
AKRON, OHIO

STRUCTURAL GENERAL NOTES

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	JWD		JGC	JBH	11-13-91	

STRUCTURAL GENERAL NOTES

FHWA REGION	STATE	PROJECT	
5	OHIO		

944
12/4

SUMMIT COUNTY
SUM. 76-11.57

PHASE 4 CONSTRUCTION

- D. RELOCATE TEMPORARY TRAFFIC BARRIERS TO DIVERT TRAFFIC. (SEE MAINTENANCE OF TRAFFIC PLANS)
- E. REMOVE MEDIAN BARRIERS, REMAINING PORTIONS OF SLABS, APPROACH SLABS, ABUTMENT BACKWALLS, AND END DAM ANGLES AS SHOWN ON THE PLANS. (SEE SHEETS 13/120 THRU 24/120)
- F. REPAIR ABUTMENTS AS SHOWN ON THE PLANS, REPLACE BACKWALLS, REMOVE AND REPLACE EXISTING PIER NO. 3, (CAREFULLY REMOVE CONCRETE FOOTINGS FROM PILES TO BE REUSED, CUT-OFF REMAINING PILES ONE FOOT BELOW PROPOSED BOTTOM OF FOOTING ELEVATION. PILING TO BE REUSED WHICH IS DAMAGED BY THE CONTRACTOR'S REMOVAL OPERATION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. SEE SHEETS 57/120 AND 57A/120 FOR PILING LOCATIONS. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR SUPPORT OF THE EXISTING BRIDGE DURING REMOVAL AND REPLACEMENT OF PIER THREE. THESE PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCING ANY DEMOLITION). RAISE GIRDERS, PLACE REUSED BEARINGS, PLACE DECK SLABS (EXCEPT FOR 3' - 6" CLOSURE SECTIONS), MEDIAN BARRIERS AND APPROACH SLABS.

CLOSURE PHASE

- G. INSTALL CROSS-FRAMES AT THE CLOSURE SECTIONS.
- H. PLACE 3' - 6" CLOSURE SECTIONS.
- I. REMOVE TEMPORARY BARRIERS AND INSTALL COMPRESSION SEAL IN ONE CONTINUOUS PIECE AT WEST ABUTMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE MAINLINE, CITY, STREET AND STRUCTURE WORK IN THE RESPECTIVE PHASES.

NEOPRENE DRAINAGE TROUGH

A. DESCRIPTION

THIS WORK SHALL INCLUDE FURNISHING AND INSTALLING AT THE EAST ABUTMENT EXPANSION JOINTS THE NEOPRENE TROUGHS, DOWNSPOUTS AND BITUMINOUS COATING AS DETAILED IN THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL STRUCTURAL STEEL, PLATES AND ANCHOR STUDS ARE INCLUDED WITH ITEM 516 STRUCTURAL STEEL EXPANSION JOINTS.

B. MATERIALS

1. NYLON REINFORCED NEOPRENE SHEET (TROUGH AND DOWNSPOUT) - DUPONT'S FAIRPRENE NN-003, 3/32" THICK, CHEMPRENE, 1/8" THICK, OIL STATES RUBBER CO. OR AN APPROVED EQUAL.

THE ONE-PLY MATERIAL SHALL CONFORM TO ASTM D751 AND THE FOLLOWING:

BREAKING STRENGTH, GRAB, W x F, MINIMUM 700 X 700 LBS.
ADHESION, 1" STRIP, 2" MIN., MINIMUM 9 LBS.

BURSTING STRENGTH (MULLEN), MINIMUM 1,400 PSI

HEAT AGING,
180° BEND WITHOUT CRACKING AFTER 70 HOURS AT 212°F

LOW TEMPERATURE BRITTLENESS, ASTM D2136

PASS FLEX TEST AFTER 5 HOURS AT -40°F

2. BITUMINOUS COATING - THE COATING SHALL CONFORM TO THE LATEST EDITION OF FEDERAL SPECIFICATION WW-P-4058, COATING F.

C. FABRICATION

TROUGH SHOP DRAWINGS SHALL BE PREPARED TO CONTROL THE WORK. THEY SHALL BE COORDINATED BY THE CONTRACTOR WITH THE STRUCTURAL STEEL FABRICATOR AND SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL PRIOR TO THE BEGINNING OF TROUGH FABRICATION.

ALL JOINTS OR SEAMS IN THE TROUGH SHALL BE LAP SPLICED NYLON REINFORCED NEOPRENE SHEETS WHICH SHALL EXTEND AT LEAST 4" ON BOTH SIDES OF EACH JOINT. SPLICES SHALL BE VULCANIZED BONDED UNDER HEAT AND PRESSURE IN THE SHOP.

ENDS OF TROUGHS SHALL BE CLOSED WITH THE END REINFORCED AS DESCRIBED ABOVE FOR JOINTS OR SEAMS.

HOLES IN THE TROUGHS SHALL BE LOCATED WITH THE AID OF A TEMPLATE FURNISHED BY THE STRUCTURAL STEEL FABRICATOR.

D. BITUMINOUS COATING APPLICATION

THE BITUMINOUS COATING SHALL BE BRUSH OR TROWEL APPLIED, PRIOR TO ITS APPLICATION SURFACES SHALL BE WIPED WITH A SUITABLE SOLVENT USING CLEAN DRY CLOTHS TO REMOVE CONTAMINANT TRACES. SURFACES SHALL BE DRY AND WARMER THAN 40° DURING COATING APPLICATION. COATING THICKNESS SHALL BE NOT LESS THAN 1/16 OF AN INCH.

E. MEASUREMENT AND PAYMENT

NEOPRENE DRAINAGE TROUGH MEASUREMENT WILL BE BASED ON THE ACTUAL NUMBER OF LINEAL FEET OF DRAINAGE TROUGH (MEASURED ALONG THE TOP OF THE TROUGH) COMPLETE AND IN PLACE AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR ITEM SPECIAL, NEOPRENE DRAINAGE TROUGH. THIS PRICE SHALL BE PAYMENT IN FULL FOR FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

REMOVAL OF WELDED ATTACHMENTS

WELDED ATTACHMENTS SHALL BE REMOVED FROM TOP FLANGES OF EXISTING GIRDERS AND BEAMS IN TENSION AREAS AFTER CONCRETE DECK REMOVAL BY GRINDING. GIRDER AND BEAM FLANGES SHALL BE GROUND SMOOTH. REMOVAL OF WELDED ATTACHMENTS SHALL BE INCLUDED WITH ITEM 202, PORTIONS OF STRUCTURES REMOVED FOR PAYMENT.

ITEM 511 - CLASS C CONCRETE, ABUTMENTS, AS PER PLAN

ALL LOOSE AND DISINTEGRATED OR UNSOUND CONCRETE SHALL BE REMOVED TO A MINIMUM DEPTH OF 4 INCHES (3 INCHES ON TOP HORIZONTAL SURFACES) FROM AREAS TO BE REPAIRED AS SPECIFIED UNDER CMS ITEM 519.03. THE AREAS TO BE PATCHED SHALL BE PREPARED AND WELDED STEEL WIRE FABRIC AND HOOK BOLTS WITH EXPANSION ANCHORS SHALL BE INSTALLED AS SPECIFIED UNDER CMS ITEMS 519.02, 519.04 AND 519.05. CLASS "C" CONCRETE SHALL THEN BE PLACED, INCLUDING AREAS TO BE PATCHED, AN ADDITIONAL 4 INCHES OF NEW CONCRETE OVER THE ENTIRE FACE OF THE ABUTMENT AND AN ADDITIONAL 4 1/2 INCHES OVER THE BEAM SEATS.

REMOVAL OF EXISTING CONCRETE, PREPARATION OF SURFACES TO BE PATCHED, INSTALLATION OF WELDED STEEL WIRE FABRIC AND HOOK BOLTS WITH EXPANSION ANCHORS AND PLACEMENT OF NEW CLASS "C" CONCRETE SHALL BE PAID UNDER THIS ITEM.

THE QUANTITY SHALL BE THE TOTAL AREA IN SQUARE FEET OF ALL ABUTMENT SURFACES RECEIVING NEW CLASS C CONCRETE REGARDLESS OF THICKNESS.

ALL INSPECTION TOOLS, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY FOR THE ENGINEER TO SOUND 100% OF THE CONCRETE ABUTMENTS, WINGWALLS AND BEAM SEATS SHALL BE SUPPLIED BY THE CONTRACTOR AT THE REQUEST OF THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 511 CLASS "C" CONCRETE, ABUTMENTS, AS PER PLAN.

~~ITEM 519 - Patching Concrete Structure, As Per Plan~~

~~AT THE LOCATIONS WHERE LOOSE, DISINTEGRATED OR UN-SOUND CONCRETE EXTENDS BEYOND THE LIMITS NOTED IN ITEM 511 - CLASS C CONCRETE, ABUTMENTS (AS PER PLAN) THE CONTRACTOR SHALL REMOVE THE CONCRETE TO EXPOSE A SOUND CONCRETE SURFACE, PREPARE THE SURFACE AND PLACE NEW CLASS "C" CONCRETE. ALL OF THESE ITEMS OF WORK AND REPAIR SHALL BE AS DESCRIBED IN THE NOTE TITLED ITEM 511 - CLASS "C" CONCRETE, ABUTMENTS (AS PER PLAN). PAYMENT FOR THIS WORK SHALL BE MEASURED ON A SQUARE FOOT BASIS AND SHALL INCLUDE ONLY THOSE AREAS WHERE THE DEPTH OF PATCHING EXCEEDS THE LIMITS NOTED IN ITEM 511 - CLASS "C" CONCRETE, ABUTMENTS (AS PER PLAN) THE PAYMENT SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED WORK. SINCE ALL QUANTITIES OF PATCHING SHOWN ON THE PLANS ARE ONLY ESTIMATES, ACTUAL PATCHING QUANTITIES WILL BE DETERMINED THROUGH FIELD INSPECTION AND SOUNDING.~~

ITEM 516 - BEARING DEVICE, MISC.

WHEN EXISTING BEARINGS DESIGNATED FOR REUSE ARE DETERMINED TO BE UNSALVAGEABLE BY THE ENGINEER, THEY SHALL BE REPLACED BY NEW BEARINGS AS FOLLOWS WHEN DIRECTED BY THE ENGINEER:

- AT PIER 1 - USE NEW *R-375 BEARINGS
- AT PIER 2 - USE NEW R-400 BEARINGS
- AT PIER 3 - USE NEW *B-375 BEARINGS
- AT PIER 4 - USE NEW *R-375 BEARINGS

SEE SHEET 76/120 FOR BEARING DETAILS.

PAYMENT FOR ALL MATERIALS AND LABOR TO FURNISH AND INSTALL THE NEW BEARINGS SHALL BE INCLUDED IN ITEM 516- BEARING DEVICE, MISC. AN ESTIMATED QUANTITY OF 6 EACH HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS PURPOSE.

ITEM 516, REFURBISH BEARING DEVICES, AS PER PLAN

THIS ITEM INCLUDES THE RESETTING OF EXISTING STEEL BEARINGS THAT HAVE BEEN DESIGNATED FOR REUSE AND RELOCATION ON SHEET 76/120. THIS ITEM SHALL ALSO INCLUDE THE COST OF REMOVAL AND REPLACING CONCRETE REMOVED TO OBTAIN SUFFICIENT CROSS-SECTIONAL AREA OF THE EXISTING ANCHOR BOLT TO WELD PROPERLY, SEE DETAIL "A" ON SHEET 52/120.

ITEM 614 - MAINTAINING TRAFFIC

THE ELASTOMERIC COMPRESSION SEAL AT THE WEST ABUTMENT SHALL BE INSTALLED IN ONE CONTINUOUS PIECE FOR EASTBOUND LANES AND ONE CONTINUOUS PIECE FOR WESTBOUND LANES. PRIOR TO OPENING PHASE 2 CONSTRUCTION TO TRAFFIC, THE CONTRACTOR SHALL INSTALL TEMPORARY SEALS IN THE PORTION TO BE OPENED TO TRAFFIC.

AT THE CONCLUSION OF PHASE 4 CONSTRUCTION AND PLACEMENT OF THE CLOSURE SECTION, THE TEMPORARY SEAL SHALL BE REMOVED AND FULL WIDTH SEALS SHALL BE INSTALLED. THE CONTRACTOR SHALL BE PERMITTED TO SET-UP THE NECESSARY LANE CLOSURES ON A DAY AND AT A TIME APPROVED BY THE ENGINEER TO FACILITATE INSTALLATION OF THE FULL WIDTH SEALS. ALL NECESSARY TRAFFIC CONTROL TO ACCOMPLISH THIS WORK AND COSTS OF THE TEMPORARY SEAL INCLUDING INSTALLATION, REMOVAL AND DISPOSAL SHALL BE INCIDENTAL TO ITEM 614, MAINTAINING TRAFFIC.

McCOY ASSOCIATES, INC. 5C/120					
CONSULTING ENGINEERS AKRON, OHIO					
STRUCTURAL GENERAL NOTES					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JBH	JWD		JAC	JBH	11-13-91

ESTIMATED QUANTITIES

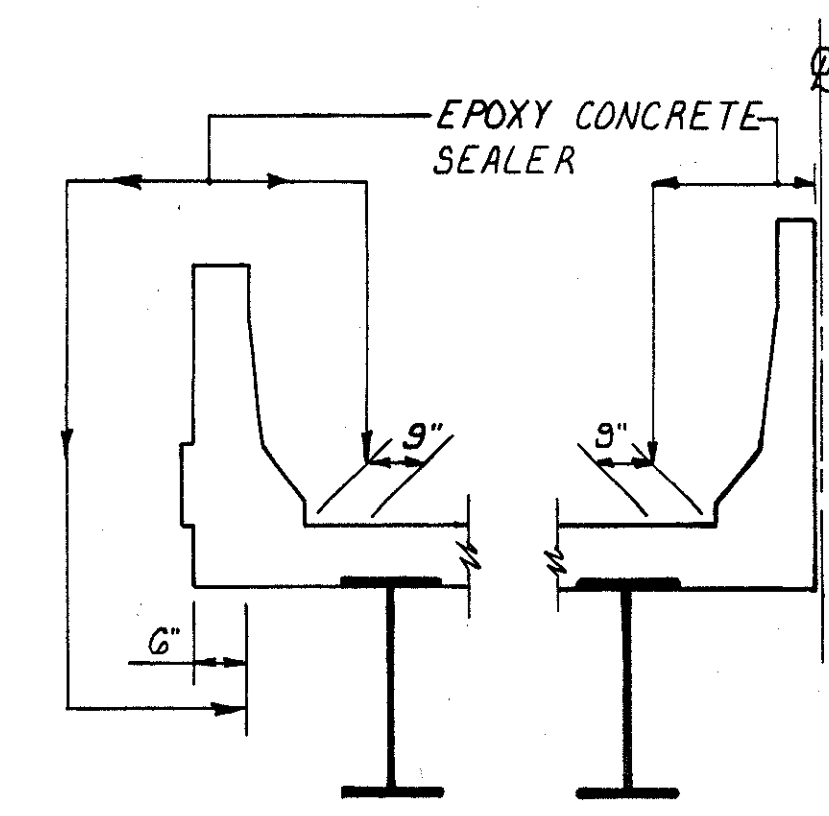
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT'S	W.WALL	GENERAL
202	11200	LUMP		PORTIONS OF STRUCTURE REMOVED					L.S.
202	98000	LUMP		REMOVAL FOR RE-USE OF EXISTING STEEL BEARINGS	L.S.				
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING					L.S.
503	21100	5770	C.Y.	UNCLASSIFIED EXCAVATION		1820	2450	1500	
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION					L.S.
506	11101	LUMP		STATIC LOAD TEST, AS PER PLAN					L.S.
507	42201	17,531	L.F.	14" DIA. C.I.P. REINFORCED CONCRETE PILES, AS PER PLAN		6246	5623	5662	
507	92200	48	L.F.	PREBORED HOLES				48	
SPEC.	50794920	415	L.F.	66" DIA. DRILLED SHAFTS		415			
509	15400	704,076	LB.	REINFORCING STEEL, GRADE 60		390,116	157,382	156,578	
509	15800	1,185,349	LB.	EPOXY COATED REINFORCING STEEL, GRADE 60	1,144,581		28,172	7596	5000
510	11100	700	EA.	DOWEL HOLES			200		500
511	31503	4492	C.Y.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	4492				
511	43000	1078	C.Y.	CLASS C CONCRETE, PIERS		1078			
511	45501	6485	S.F.	CLASS C CONCRETE, ABUTMENTS, AS PER PLAN			6485		
511	45700	1240	C.Y.	CLASS C CONCRETE, ABUTMENTS			1240		
511	46200	770	C.Y.	CLASS C CONCRETE, Retaining wall or wingwall				770	
511	46500	1823	C.Y.	CLASS C CONCRETE, FOOTINGS		504	582	737	
* 511	33404	4492	C.Y.	Class S Concrete, superstructure using shrinkage compensating cement	4492				
* 511	33410	LUMP		Class S concrete, using shrinkage compensating cement for preplace testing	L.S.				
512	44400	30	S.Y.	TYPE B WATERPROOFING			30		
SPEC.	51267502	5284	S.Y.	SEALING OF CONCRETE SURFACES, EPOXY *A	2960		1294	1030	
513	11701	2,870,600	LB.	STRUCTURAL STEEL, A36, AISC CATEGORY III, AS PER PLAN	2,870,600				
513	12301	20,700	LB.	STRUCTURAL STEEL, A588, CATEGORY III, AS PER PLAN	20,700				
513	14800	128,576	LB.	FRACTURE CRITICAL STRUCTURAL STEEL, A36, CATEGORY III	128,576				
513	16001	226,700	LB.	STRUCTURAL STEEL FOR REHABILITATION, A36, AS PER PLAN	206,700				20,000
SPEC.	51317700	LUMP		RAISING EXISTING STRUCTURAL STEEL	L.S.				
513	20000	3645	EA.	WELDED STUD SHEAR CONNECTORS	3645				
513	21200	LUMP		TRIMMING OF BEAM END	L.S.				
SPEC.	51400100	LUMP		Surface Prep. OF EXISTING STEEL, SYSTEM OZEU *A	L.S.				
SPEC.	51400200	LUMP		FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU *A	L.S.				
SPEC.	51400300	LUMP		FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU *A	L.S.				
SPEC.	51400400	LUMP		FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU *A	L.S.				
SPEC.	51400610	3,226,576	LB.	PAINTING OF NEW STEEL, SYSTEM IZEU *A	3,226,576				
516	11210	160	L.F.	STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC STRIP SEALS, 4"	160				
516	12200	270	L.F.	STRUCTURAL STEEL EXPANSION JOINT	270				
516	13600	1266	S.F.	1" PREFORMED EXPANSION JOINT FILLER			257	1009	
516	30500	414	L.F.	P.V.C. WATERSTOP			71	343	
516	45305	24	EA.	REFURBISH BEARING DEVICES, As Per Plan	24				
516	46900	6	EA.	BEARING DEVICE, MISC.					6
518	21200	1197	C.Y.	POROUS BACKFILL, WITH FILTER FABRIC			644	553	
518	42200	505	L.F.	8" PERFORATED C.S.P., 707.01			175	330	
518	42300	206	L.F.	8" NON-PERFORATED C.S.P., INCLUDING SPECIALS, 707.01			176	30	
SPEC.	51862100	279	L.F.	NEOPRENE DRAINAGE TROUGH	279				
519	11100	2321	S.F.	PATCHING CONCRETE STRUCTURES		921	1400		
519	11100	2321	S.F.	PATCHING Concrete Structures			1400		
523	11100	15	HR.	DYNAMIC LOAD TEST					15

QUANTITIES	
CALC. BY: JMH	DATE: 12/88
CHKD. BY: MAM	DATE: 11/89

FHWA REGION	STATE	PROJECT
5	OHIO	

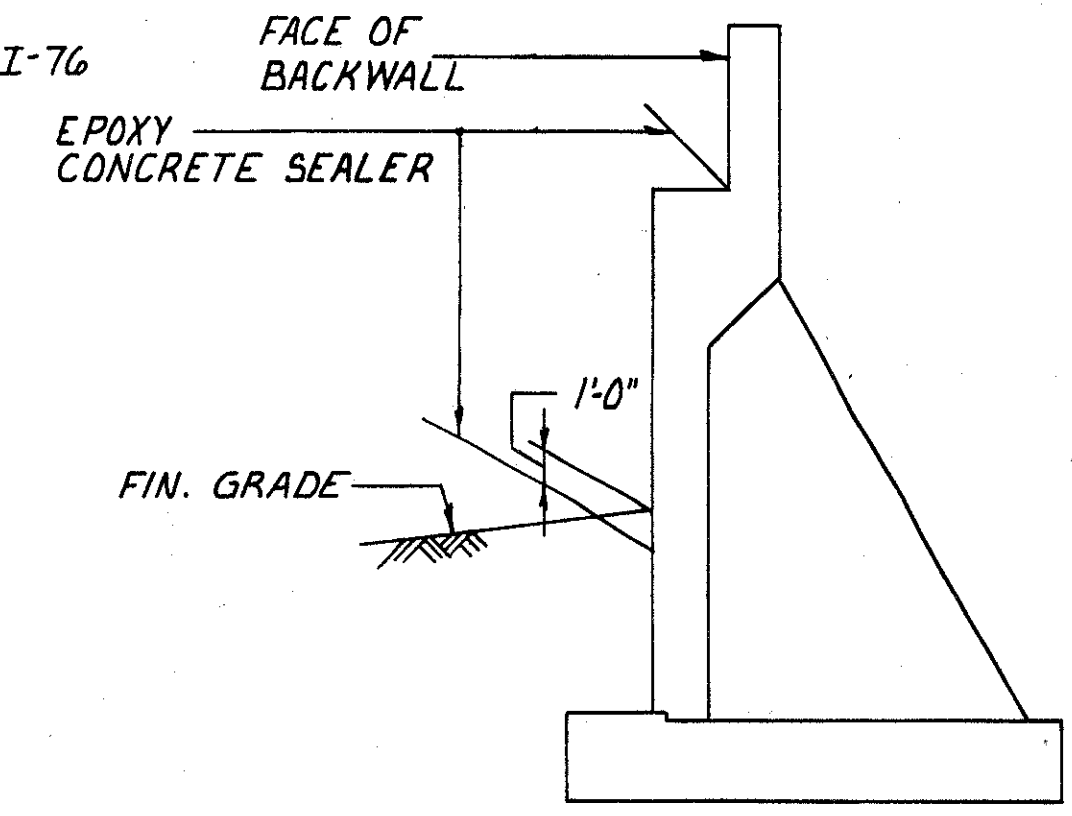
SUMMIT COUNTY
SUM 76-11.57

945
1214

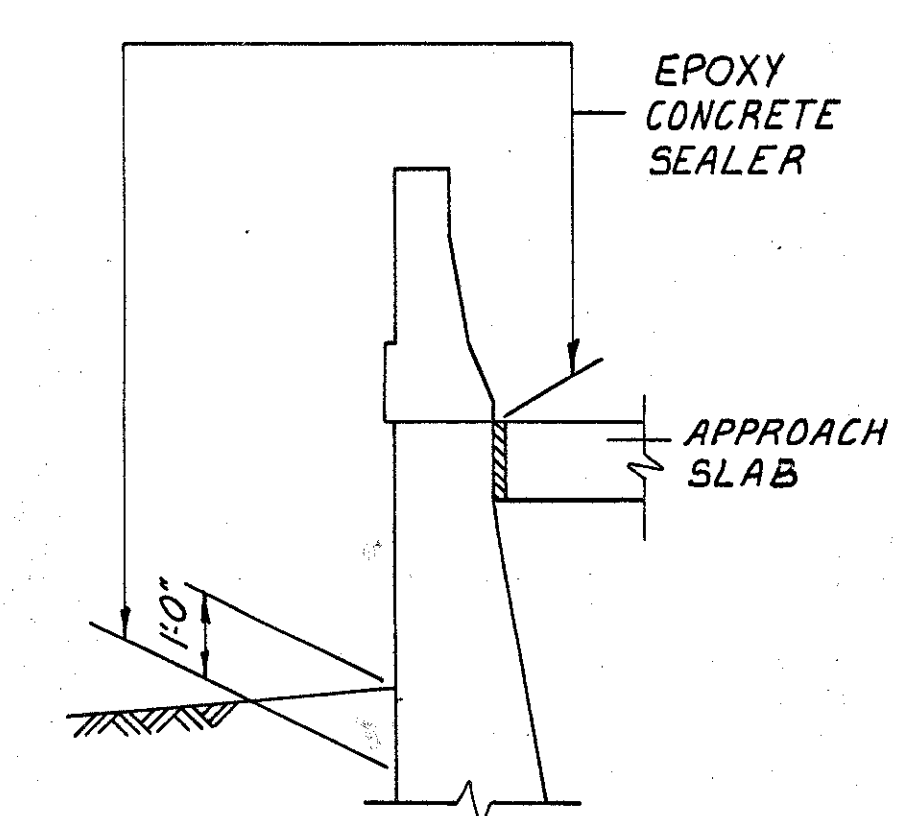


SUPERSTRUCTURE

Class S concrete superstructure, as per plan -
Concrete shall be cured by method (a) water curing



SECTION THRU EXIST. AND PROPOSED ABUTMENTS

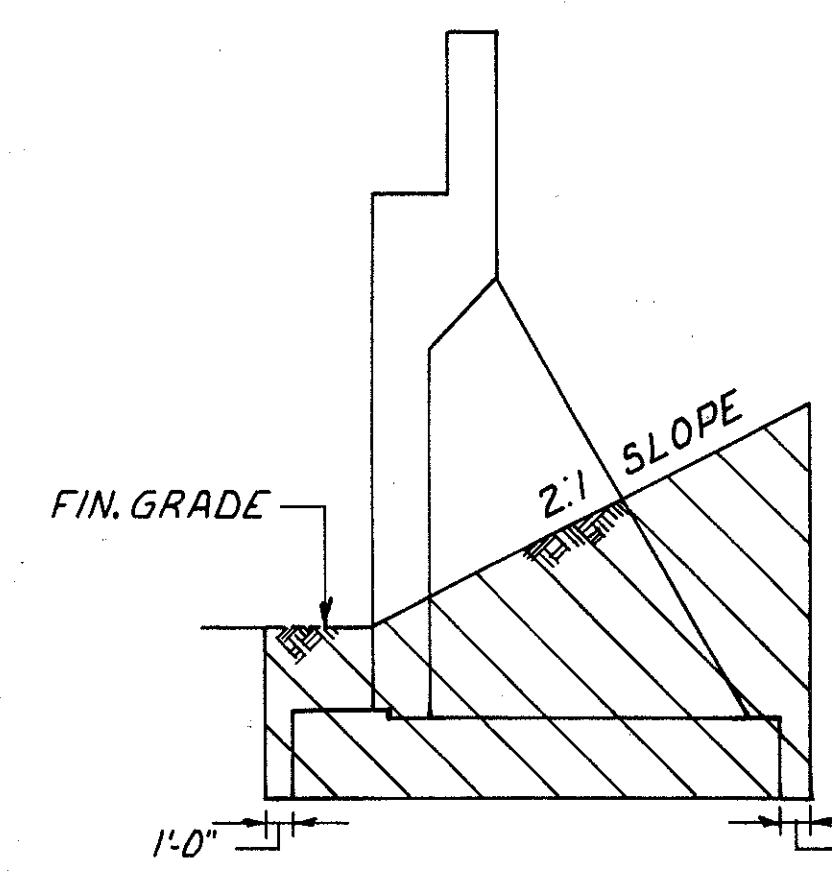


SECTION THRU WINGWALLS

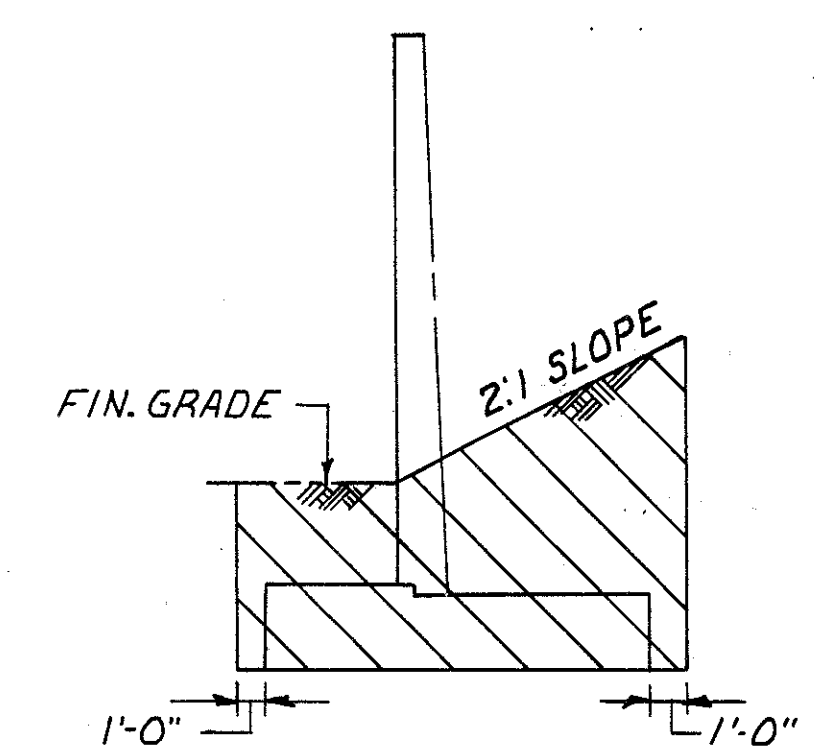
These two items shall constitute one alternate bid to class S concrete superstructure, as per plan

LIMITS OF CONCRETE SEALER

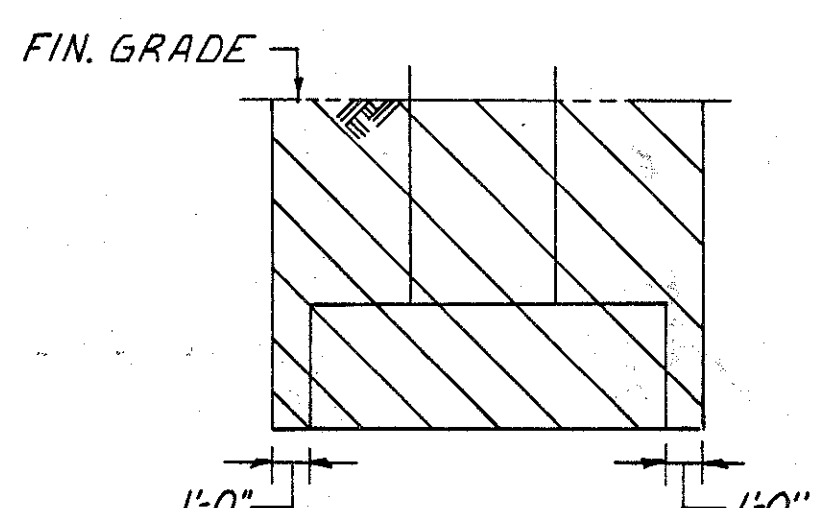
THE CONCRETE SEALER SHALL BE APPLIED AS DESCRIBED IN THE PROPOSAL UNDER "SEALING OF CONCRETE SURFACES."



SECTION THRU ABUTMENT



SECTION THRU WINGWALL



SECTION THRU PIER

LIMITS OF UNCLASSIFIED EXCAVATION

SEE SHT. NO. 13/120 & 14/120 FOR LIMITS OF UNCLASSIFIED EXCAVATION FOR EXISTING ABUTMENTS

* SEE PROPOSAL NOTE.

▲ SEE GENERAL NOTES FOR ADDITIONAL DETAILS

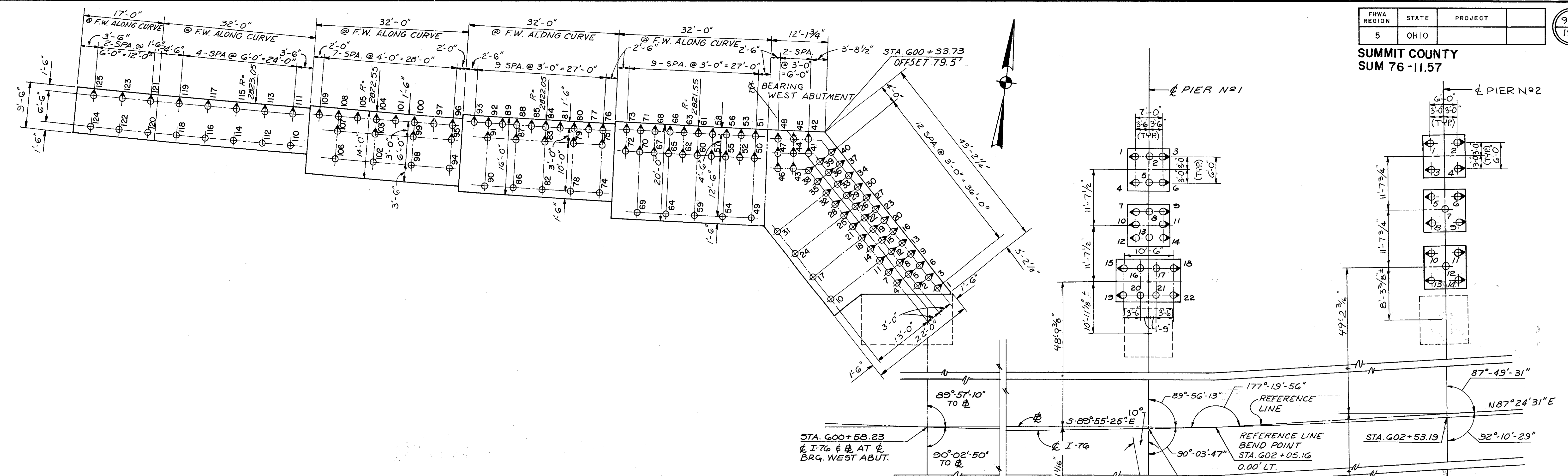
McCOY ASSOCIATES INC. 6/120
CONSULTING ENGINEERS
AKRON, OHIO

ESTIMATED QUANTITIES

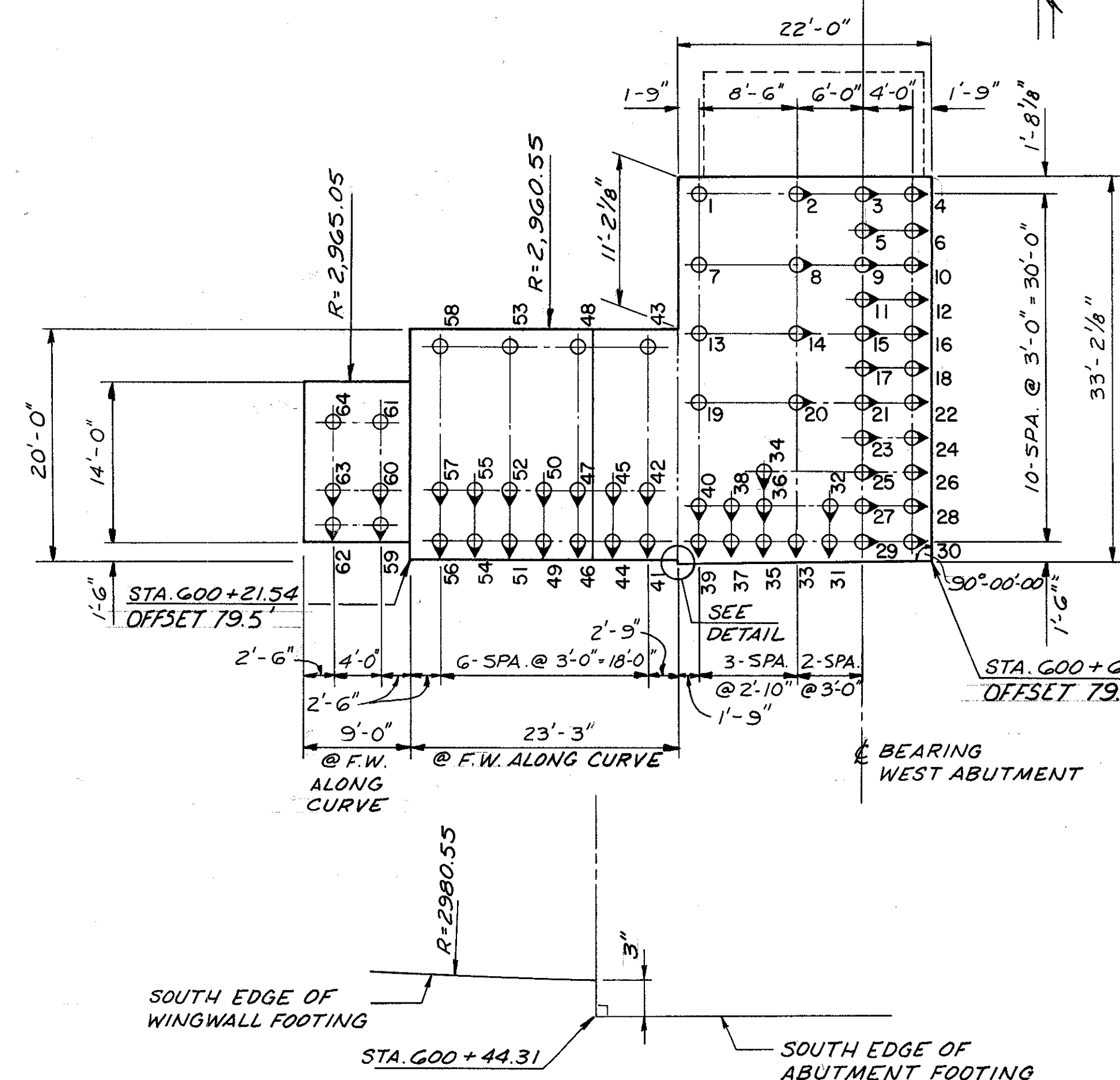
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JMH	A.M. M.A.M.	J.W.D.	M.A.M.	J.B.H.	3-31-89	J.G.C.

**SUMMIT COUNTY
SUM 76-11.57**



PILE TABLE						
	PILE NO	PILE TYPE	VERT. PILES		BATTERED PILES	
			QTY.	EST. LENGTH	QTY.	EST. LENGTH
WABUT.-N.	1-48	14" Ø C.I.P. RC.	4	22'	44	23'
NW-W.WALL	49-53	14" Ø C.I.P. RC.	1	29'	4	31'
NW-W.WALL	54-73	14" Ø C.I.P. RC.	4	22'	16	23'
NW-W.WALL	74-77	14" Ø C.I.P. RC.	1	29'	3	31'
NW-W.WALL	78-93	14" Ø C.I.P. RC.	4	22'	12	23'
NW-W.WALL	94-97	14" Ø C.I.P. RC.	1	29'	3	31'
NW-W.WALL	98-109	14" Ø C.I.P. RC.	3	22'	9	23'
NW-W.WALL	110-111	14" Ø C.I.P. RC.	1	26'	1	28'
NW-W.WALL	112-119	14" Ø C.I.P. RC.	4	22'	4	23'
NW-W.WALL	120-121	14" Ø C.I.P. RC.	1	26'	1	28'
NW-W.WALL	122-125	14" Ø C.I.P. RC.	2	22'	2	23'
WABUT.-S.	1-40	14" Ø C.I.P. RC.	4	22'	36	23'
SW-W.WALL	41-45	14" Ø C.I.P. RC.	1	22'	4	23'
SW-W.WALL	46-50	14" Ø C.I.P. RC.	1	29'	4	31'
SW-W.WALL	51-53	14" Ø C.I.P. RC.	2	22'	6	23'
SW-W.WALL	59-61	14" Ø C.I.P. RC.	1	26'	2	28'
SW-W.WALL	62-64	14" Ø C.I.P. RC.	1	22'	2	23'
PI-N	1-22	14" Ø C.I.P. RC.	8	27'	14	28'
PI-S	1-22	14" Ø C.I.P. RC.	6	27'	16	28'
P2-N	1-14	14" Ø C.I.P. RC.	2	27'	12	28'
P2-S	1-14	14" Ø C.I.P. RC.	2	27'	12	28'



DETAIL
NOT TO SCALE

- NOTES**
- PILES SHOWN SHALL BE BATTERED IN THE DIRECTION INDICATED AS FOLLOWS:
ABUTMENTS - 1:3
PIERS - 1:4
 - PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY AS FOLLOWS:
ABUTMENTS : 58 TONS PER PILE.
PIERS 1 & 2 : 55 TONS PER PILE.
 - REFER TO WEST ABUTMENT, PIER 1 & PIER 2 DETAILS FOR ADDITIONAL DIMENSIONS.
 - F.W. = FACE OF WALL

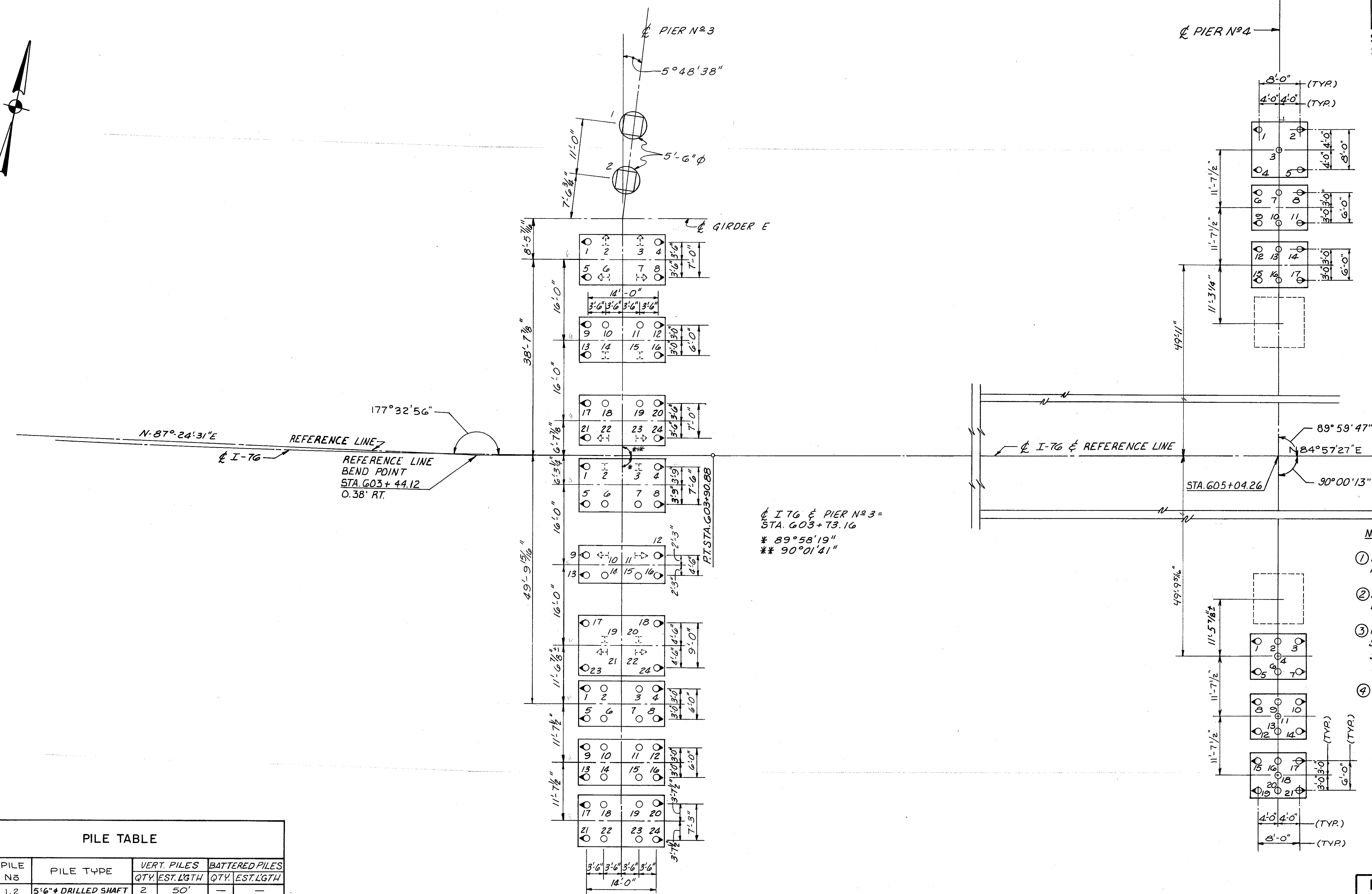
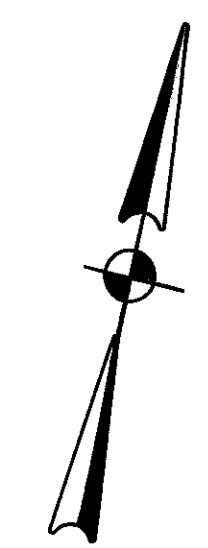
McCOY ASSOCIATES INC. 7/120
CONSULTING ENGINEERS
AKRON, OHIO

FOUNDATION LAYOUT PLAN

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.R.	M.R.A.	RAK	J.B.H.	3-30-89	
T.E.N.						

SUMMIT COUNTY
SUM 76-11.57



I 76 & PIER N°3 =
STA. 603+73.16
* 89°58'19"
** 90°01'41"

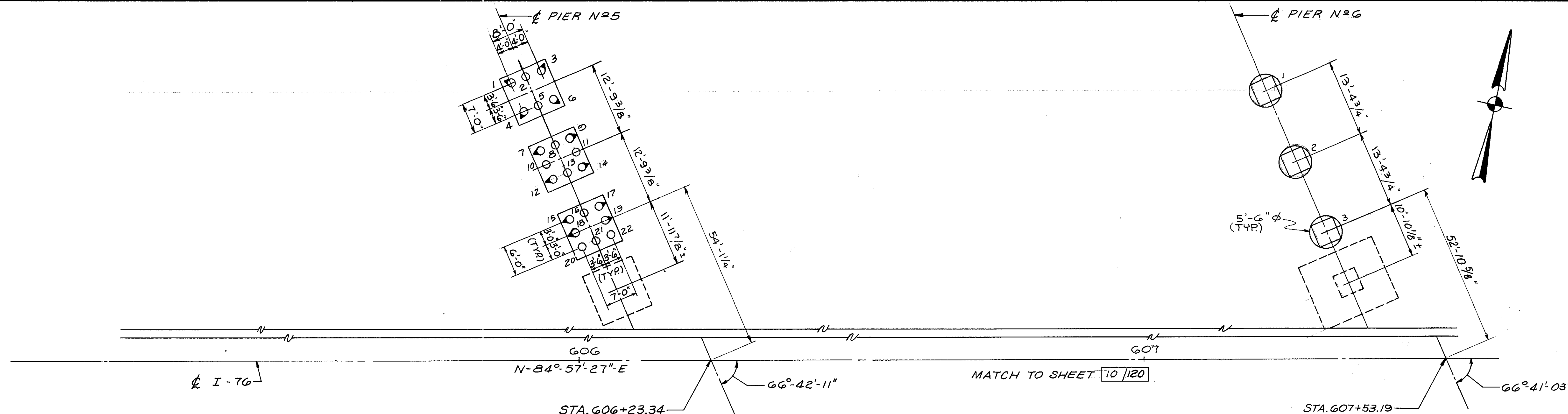
- NOTES:
- PILES SHOWN \odot SHALL BE BATTERED 1:4 IN THE DIRECTION INDICATED.
 - PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE.
 - FOR DRILLED SHAFT SPECIFICATIONS, SEE SHEET N° 12A/120 FOR DRILLED SHAFT INSPECTION RECORD SEE SHEET N° 12B/120
 - REFER TO PIER 3 & PIER 4 DETAILS FOR ADDITIONAL DIMENSIONS.

PIER N°	PILE N°	PILE TYPE	VERT. PILES		BATTERED PILES	
			QTY.	EST. LGTH	QTY.	EST. LGTH
P3-NE	1,2	5'-6" DRILLED SHAFT	2	50'	—	—
P3-NI	1-24	14" C.I.P. R.C.	4	27'	12	28
		EXISTING 14 BP73	2	48	6	50
P3-SI	1-24	14" C.I.P. R.C.	4	27'	12	28
		EXISTING 14 BP73	4	48'	4	50
P3-SE	1-24	14" C.I.P. R.C.	12	27'	12	28
P4-N	1-17	14" C.I.P. R.C.	5	27'	12	28
P4-S	1-21	14" C.I.P. R.C.	9	27'	12	28

McCOY ASSOCIATES INC. 8/120
CONSULTING ENGINEERS
AKRON, OHIO

FOUNDATION LAYOUT PLAN
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	DAK		R.A.K.	J.B.H.	3-30-89	



NOTES

- ① PILES SHOWN \ominus SHALL BE BATTERED 1:4 IN THE DIRECTION INDICATED.
- ② PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE.
- ③ FOR DRILLED SHAFT SPECIFICATIONS SEE SHEET 12A/120. FOR DRILLED SHAFT INSPECTION RECORD SEE SHEET 12B/120.
- ④ REFER TO PIER 5 & PIER 6 DETAILS FOR ADDITIONAL DIMENSIONS.

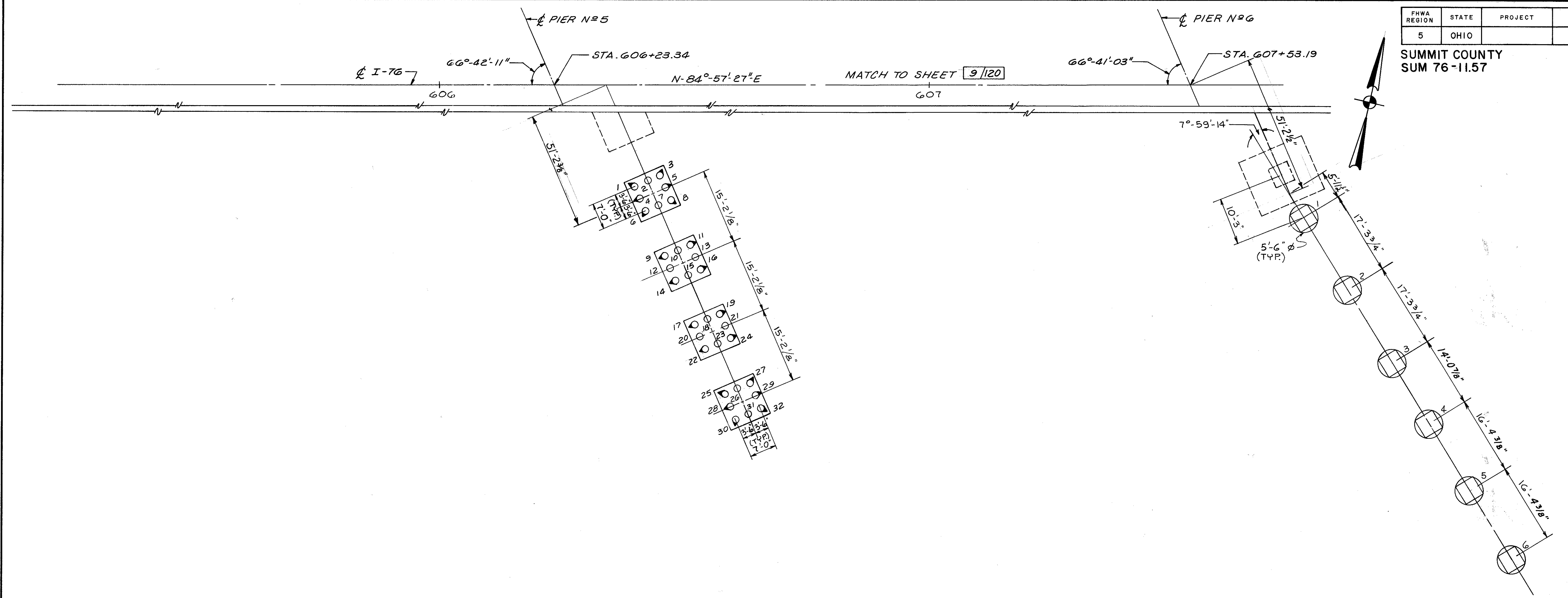
PIER N#	PILE N#	PILE TYPE	VERT. PILES		BATTERED PILES	
			QTY	EST. L'GTH	QTY	EST. L'GTH
P5-N	1-22	14" ϕ C.I.P. R.C.	10	27'	12	28'
P6-N	1-3	5'-6" ϕ DRILLED SHAFT	3	35'	-	-

McCOY ASSOCIATES INC. 9/120
CONSULTING ENGINEERS
AKRON, OHIO

FOUNDATION LAYOUT PLAN
NORTH BRIDGE
BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	DAK		R.A.K.	J.B.H.	9-30-89	
T.E.N.	M.R.A.					

SUMMIT COUNTY
SUM 76-11.57



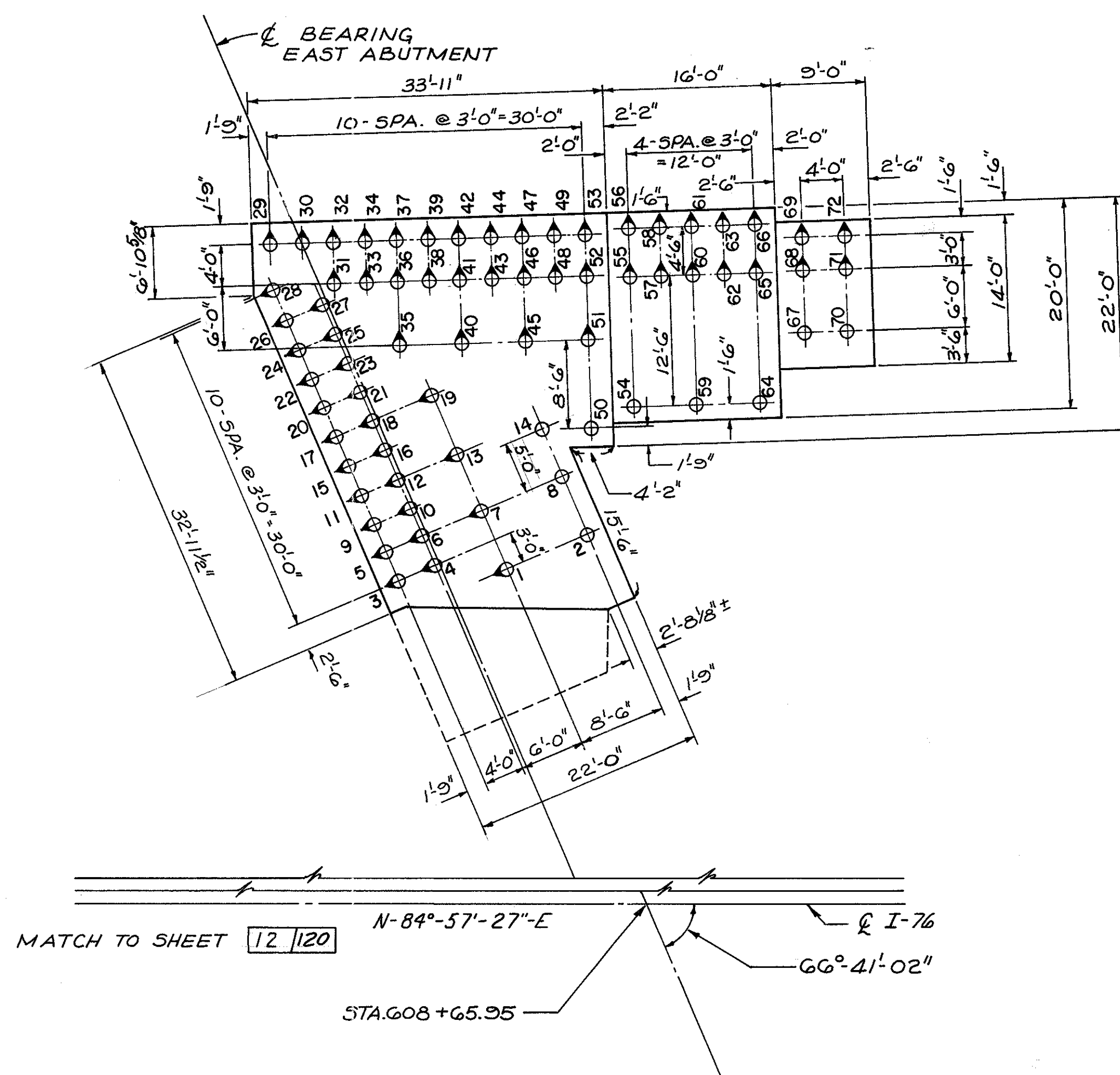
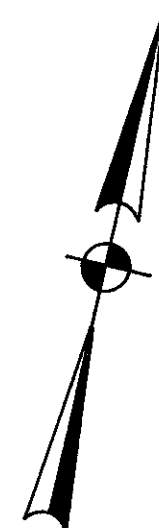
NOTES:
① SEE SHEET 9/120 FOR NOTES.

PILE TABLE						
PIER No	PILE No	PILE TYPE	VERT. PILES		BATTERED PILES	
			QTY.	EST. LGTH	QTY.	EST. LGTH
P5-S	1-32	14" C.I.P. R.C.	12	32'	20	33'
P6-S	1-6	5'-6" DRILLED SHAFT	6	35'	-	-

McCOY ASSOCIATES INC. 10/120
CONSULTING ENGINEERS
AKRON, OHIO

FOUNDATION LAYOUT PLAN
SOUTH BRIDGE
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	DAK		RAK.	J.B.H.	3-30-89	
T.E.N.						



NOTES:

- ① PILES SHOWN \odot SHALL BE BATTERED 1:3 IN THE DIRECTION SHOWN.
- ② PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 58 TONS PER PILE.
- ③ REFER TO EAST ABUTMENT DETAILS FOR ADDITIONAL DIMENSIONS.

PILE TABLE

	PILE No	PILE TYPE	VERT. PILES		BATTERED PILES	
			QTY	EST. LENGTH	QTY	EST. LENGTH
E. ABUT-N.	1-53	14" ϕ C.I.P. R.C.	4	32'	49	34'
N.E.-W. WALL	54-56	14" ϕ C.I.P. R.C.	1	36'	2	38'
N.E.-W. WALL	57-58	14" ϕ C.I.P. R.C.	0	0	2	41'
N.E.-W. WALL	59-66	14" ϕ C.I.P. R.C.	2	32'	6	34'
N.E.-W. WALL	67-69	14" ϕ C.I.P. R.C.	1	36'	2	38'
N.E.-W. WALL	70-72	14" ϕ C.I.P. R.C.	1	32'	2	34'

McCOY ASSOCIATES INC. 11/120
CONSULTING ENGINEERS
AKRON, OHIO

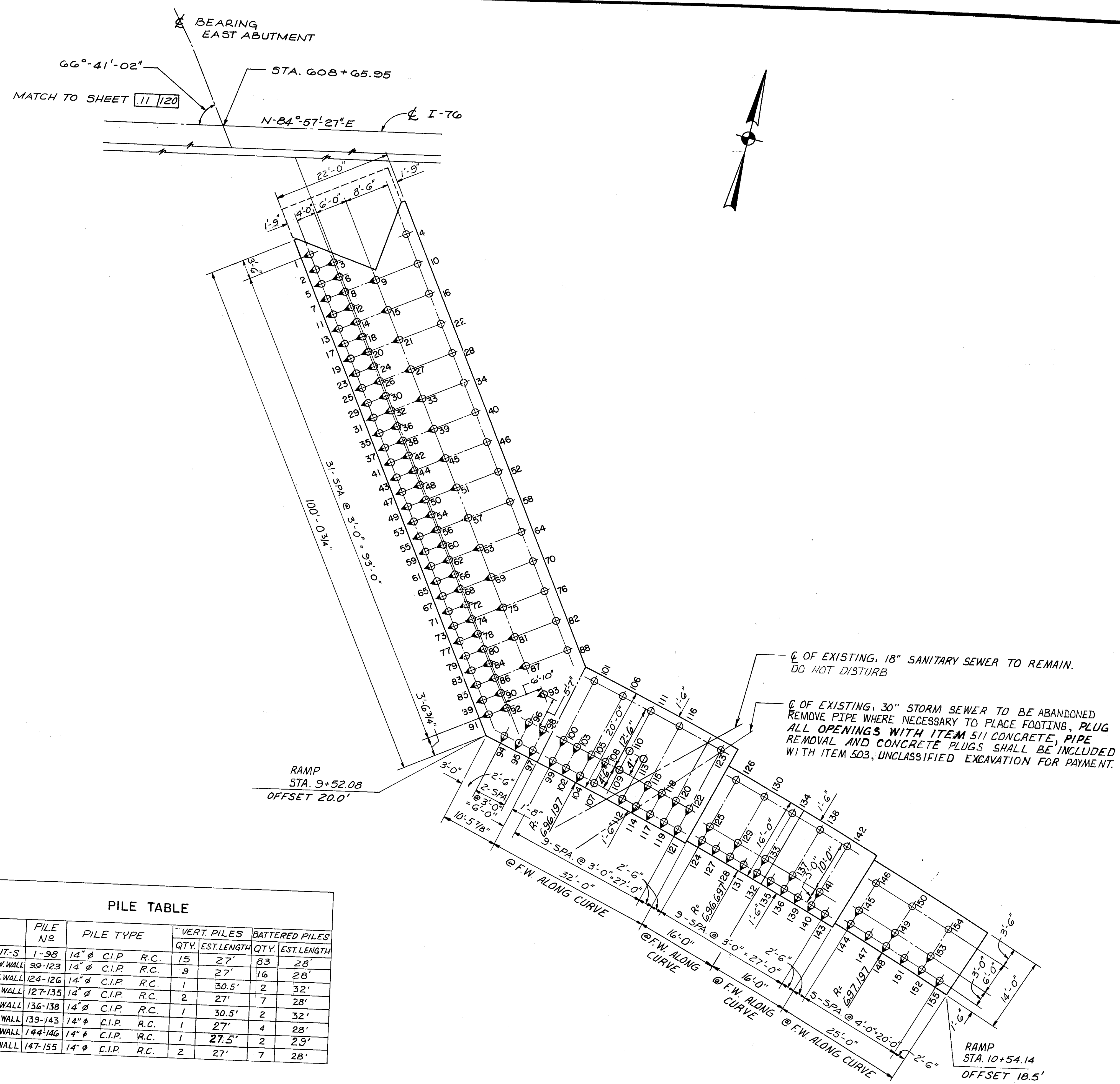
FOUNDATION LAYOUT PLAN
NORTH BRIDGE
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.P.		R.A.K.	J.B.H.	3-30-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

957
1214

SUMMIT COUNTY
SUM 76-11.57



- NOTES:
- PILES SHOWN \odot SHALL BE BATTERED 1:3 IN THE DIRECTION SHOWN.
 - PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 38 TONS PER PILE.
 - REFER TO EAST ABUTMENT DETAILS FOR ADDITIONAL DIMENSIONS.
 - SEE ROADWAY DRAWINGS-DRAINAGE PLANS FOR SEWER DETAILS.
 - STATIONING IS \odot I-76 UNLESS NOTED OTHERWISE.
 - F.W. = FACE OF WALL
 - PREBORE HOLES FOR PILES 109, 112, 113 AND 115 TO APPROXIMATE ELEVATION 9850 TO MISS 18" SANITARY SEWER. EST'D PAY LENGTH= 12 LF PER HOLE.

PILE No.	PILE TYPE	VERT. PILES		BATTERED PILES		
		QTY.	EST. LENGTH	QTY.	EST. LENGTH	
E. ABUT-S	1-98	14" ϕ C.I.P. R.C.	15	27'	83	28'
S.E.-W. WALL	99-123	14" ϕ C.I.P. R.C.	9	27'	16	28'
S.E.-W. WALL	124-126	14" ϕ C.I.P. R.C.	1	30.5'	2	32'
S.E.-W. WALL	127-135	14" ϕ C.I.P. R.C.	2	27'	7	28'
S.E.-W. WALL	136-138	14" ϕ C.I.P. R.C.	1	30.5'	2	32'
S.E.-W. WALL	139-143	14" ϕ C.I.P. R.C.	1	27'	4	28'
S.E.-W. WALL	144-146	14" ϕ C.I.P. R.C.	1	27.5'	2	29'
S.E.-W. WALL	147-155	14" ϕ C.I.P. R.C.	2	27'	7	28'

McCOY ASSOCIATES INC. 12/120
CONSULTING ENGINEERS
AKRON, OHIO

FOUNDATION LAYOUT PLAN
SOUTH BRIDGE
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		R.A.K.	J.B.H.	3-30-89	
T.E.N.						

FHWA REGION	STATE	PROJECT	
5	OHIO		

952
1214

SUMMIT COUNTY
SUM-76 -11.57

ITEM SPECIAL - DRILLED SHAFTS

DESCRIPTION

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING DRILLED SHAFTS OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND APPURTENANCES REQUIRED TO COMPLETE THE WORK AS SPECIFIED. THE LENGTH(S) OF THE DRILLED SHAFTS SHOWN IN THESE PLANS HAS BEEN ESTIMATED FROM AVAILABLE SUBSURFACE INFORMATION. THE CONTRACTOR IS EXPECTED TO FURNISH THE PROPOSED DRILLED SHAFTS AS PER THESE PLAN REQUIREMENTS, WITH THE UNDERSTANDING THAT THE ACTUAL LENGTH REQUIRED BASED ON CONDITIONS ENCOUNTERED DURING CONSTRUCTION, MAY DIFFER FROM THE ESTIMATED LENGTH SHOWN IN THE PLANS.

THE REQUIRED LENGTH OF THE DRILLED SHAFT IS 35 FEET FOR PIERS 6N & 6S. THE REQUIRED LENGTH OF THE DRILLED SHAFT IS 50 FEET FOR PIER 3N. THE LOCATION AND ELEVATION OF THE TOP OF THE DRILLED SHAFT SHALL BE CONSTRUCTED TO THE LIMITS AS SHOWN ON THE PLANS.

A CASING WILL BE NECESSARY FOR THE CONSTRUCTION OF EACH PIER DRILLED SHAFT AND THE CASINGS SHALL BE LEFT IN PLACE.

CONTRACTOR QUALIFICATION

THE CONTRACTOR SHALL SUBMIT INFORMATION TO THE ENGINEER TO DOCUMENT THAT HIS PERSONNEL ARE EXPERIENCED IN THE CONSTRUCTION OF DRILLED SHAFTS OF THE TYPE AND SIZE SPECIFIED ON THE PLANS. THIS INFORMATION SHALL BE SUBMITTED AT THE PRECONSTRUCTION CONFERENCE. THE PROJECT ENGINEER IS REQUESTED TO INFORM BUREAU OF BRIDGES, ATTENTION: FOUNDATION ENGINEER (TEL. 614-466-2399) OF THE DATES WHEN THE CONTRACTOR WILL BE CONSTRUCTING THE DRILLED SHAFTS.

SEQUENCE OF INSTALLATION

THE INSTALLATION SEQUENCE SHALL BE SUCH THAT NO DRILLED SHAFT IS INSTALLED ADJACENT TO EITHER AN OPEN DRILLED SHAFT EXCAVATION OR A DRILLED SHAFT IN WHICH THE CONCRETE HAS LESS THAN A SEVEN DAY CURE. INSTALLING THE SHAFTS IN AN ALTERNATING SEQUENCE OR ANY OTHER SEQUENCE THAT MEETS THIS CRITERIA IS PERMISSIBLE.

CASING

THE CASINGS SHALL BE MADE OF STEEL, SHALL BE WATER TIGHT AND SHALL BE OF AMPLE STRENGTH TO WITHSTAND HANDLING PRESSURES AND EXTERNAL SUBSURFACE PRESSURES. THE CASING LENGTH SHALL BE AS NECESSARY TO CONSTRUCT EACH DRILLED SHAFT.

EXCAVATION

WHEN OBJECTS SUCH AS LARGE BOULDERS ARE ENCOUNTERED, THEY SHALL BE REMOVED. BLASTING METHODS MAY BE USED AND WHEN USED, SHALL BE CONDUCTED SO AS TO AVOID DISTURBANCE TO THE BEDROCK FOUNDATION BELOW AND OUTSIDE THE LIMITS OF THE PROPOSED DRILLED SHAFT EXCAVATIONS.

DEWATERING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ANY INCOMING WATER TO THE EXTENT THAT THE SHAFT EXCAVATION IS MAINTAINED DRY ENOUGH FOR PERFORMANCE OF THE REQUIRED INSPECTION OPERATION. THE PREFERRED METHOD OF CONSTRUCTION IS TO PLACE THE CONCRETE IN A CLEAN, DRY EXCAVATION. THE CONTRACTOR IS TO SEAL WATER OUT OF THE DRILLED SHAFT EXCAVATION.

BOTTOM CLEANOUT

THE BOTTOM OF THE COMPLETED DRILLED SHAFT EXCAVATION SHALL BE CLEAN.

APPROVAL BEFORE CONCRETE PLACEMENT

THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL A WRITTEN PLAN OF STEPS AND PROCEDURES HE PROPOSES TO FOLLOW WHEN PLACING AND MONITORING THE CONCRETE PLACEMENT. CONCRETE SHALL NOT BE PLACED IN THE DRILLED SHAFT EXCAVATION WITHOUT PRIOR APPROVAL FROM THE ENGINEER. THE DRILLED SHAFT EXCAVATION SHALL BE INSPECTED IMMEDIATELY BEFORE THE CONCRETE IS PLACED. NOTE THAT THROUGH THE WATER THE INSPECTION SHALL BE LIMITED TO PROBING AND MEASURING.

CONCRETE PLACEMENT

THE CONCRETE FOR THE DRILLED SHAFTS SHALL BE PLACED AS PER 511 EXCEPT AS MODIFIED BY THE PLANS. THE CONCRETE PLACEMENT OPERATION SHALL BE CONTINUOUS FROM START TO FINISH. THE CONCRETE FOR THE BEDROCK SOCKET SHALL BE PLACED AGAINST THE INSITU BEDROCK AND SHALL BE PLACED PROMPTLY AFTER THE FINAL INSPECTION OF THE SHAFT.

THE CONCRETE SHALL BE PLACED IN A CLEAN DRY EXCAVATION. CARE SHALL BE TAKEN TO ASSURE THAT CONCRETE IS NOT BEING PLACED IN MOVING WATER.

IF THE ENGINEER DETERMINES THAT DEWATERING IS NOT PRACTICABLE, THE CONTRACTOR WILL BE GIVEN PERMISSION TO PLACE THE CONCRETE UNDER WATER. TO PLACE CONCRETE UNDER WATER, THE DRILLED SHAFT EXCAVATION SHALL BE FILLED WITH WATER TO SUCH A DEPTH THAT ALL WATER MOTION HAS CEASED. THE CONCRETE SHALL THEN BE PLACED BY MEANS OF A CONCRETE PUMP. THE CONCRETE PUMP PIPE SHALL HAVE A DIAMETER THAT IS NOT LESS THAN 4 INCHES. THE CONCRETE PUMP EQUIPMENT SHALL BE SO ARRANGED THAT NO VIBRATIONS RESULT WHICH MIGHT DAMAGE FRESH CONCRETE. PIPES CARRYING CONCRETE FROM THE PUMP TO THE SHAFT SHOULD BE ARRANGED WITH A MINIMUM NUMBER OF BENDS. THE PIPE USED TO CONVEY THE CONCRETE TO THE BOTTOM OF THE DRILLED SHAFT EXCAVATION SHALL BE ANCHORED TO THE STEEL CASING TO PREVENT THE PIPE FROM UNDULATING DURING THE INITIAL PLACEMENT OF THE CONCRETE.

THE PUMPING EQUIPMENT SHALL BE SUITABLE IN KIND AND ADEQUATE IN CAPACITY FOR THE WORK REQUIRED. THE USE OF ALUMINUM PIPE AS A CONVEYANCE FOR THE CONCRETE WILL NOT BE PERMITTED. AN ADEQUATE QUANTITY OF GROUT, MORTAR OR CONCRETE WITH COARSE AGGREGATE OMITTED SHALL BE PUMPED THROUGH THE EQUIPMENT AHEAD OF THE SPECIFICATION CONCRETE TO PROVIDE LUBRICATION TO THE PUMPING SYSTEM. THE CONCRETE USED FOR LUBRICATION SHALL NOT BE PLACED IN THE SHAFT. THE LUBRICATION PROCESS WILL NOT BE REPEATED AS LONG AS THE PUMPING OPERATIONS ARE CONTINUOUS. THE OPERATION OF THE PUMP SHALL BE SUCH THAT A CONTINUOUS STREAM OF CONCRETE WITHOUT AIR POCKETS IS PRODUCED. IN ORDER TO PREVENT THE CONTAMINATION OF THE CONCRETE PLACED INITIALLY AT THE BOTTOM OF THE SHAFT, THE OUTLET END OF THE PUMPING PIPE SHALL BE SEALED WITH A DIAPHRAM OR PLUG THAT IS FLUSHED OUT WHEN THE HYDROSTATIC PRESSURE FROM THE COLUMN OF CONCRETE EXCEEDS THAT OF THE WATER IN THE SHAFT. THE INITIAL RATE OF CONCRETE PLACEMENT MUST BE CAREFULLY CONTROLLED SO AS NOT TO LIFT OR DISPLACE THE CAGE OF REINFORCING STEEL. THE CONVEYING SYSTEM SHALL BE WATER TIGHT AND THE OUTLET END SHALL ALWAYS REMAIN WELL BELOW THE TOP OF THE FRESHLY PLACED CONCRETE. THE PREFERRED CONCRETE PLACEMENT PROCEDURE IS TO MAINTAIN THE OUTLET END OF THE PUMPING SYSTEM AT APPROXIMATELY 15 FEET BELOW THE TOP OF THE FRESH CONCRETE. WHEN THE CONCRETE REACHES THE TOP OF THE DRILLED SHAFT COLUMN ALL LAITANCE SHALL BE REMOVED.

TOLERANCES

THE CONTRACTOR SHALL LOCATE AND CONSTRUCT THE TOP CENTER OF THE PIER DRILLED SHAFTS WITHIN A TWO-INCH RADIUS OF THE POSITION INDICATED BY THE PLANS. THE SHAFTS ARE TO BE INSTALLED VERTICALLY AND MUST BE WITHIN 1.0 PERCENT OF PLUMB FOR THE TOTAL LENGTH OF THE DRILLED SHAFT.

CONCRETE

CONCRETE FOR ALL DRILLED SHAFTS SHALL BE CLASS S CONCRETE AND SHALL BE IN ACCORDANCE WITH 511, EXCEPT AS MODIFIED AND SUPPLEMENTED HEREIN. THE REQUIRED SLUMP IS SIX (6) INCHES, PLUS OR MINUS ONE-HALF INCH. THE MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.50. IF CONCRETE IS PLACED UNDER WATER, THE REQUIREMENTS OF ADDING 10 PERCENT MORE CEMENT TO THE CONCRETE MIX SHALL BE WAIVED. THE TOP 5 TO 10 FEET OF CONCRETE IN THE DRILLED SHAFTS ARE REQUIRED TO BE VIBRATED. ONLY A MINIMAL VIBRATORY EFFORT IS NECESSARY. SPECIAL CARE SHALL BE TAKEN NOT TO OVER-VIBRATE THE DRILLED SHAFT CONCRETE.

REINFORCING STEEL

REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF 509. THE REINFORCING STEEL SHALL BE GRADE 60. THE SPIRAL REINFORCING STEEL MAY BE PLAIN BARS ASTM A82 OR A615. THE REINFORCING STEEL CAGE SHALL BE COMPLETELY ASSEMBLED PRIOR TO PLACEMENT. SEE PLAN SHEETS FOR DETAILS OF REINFORCING STEEL. THE REINFORCING STEEL SHOULD BE PLACED AT PLAN LOCATIONS.

INSPECTION

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE MEANS FOR ACCESS AND SAFE DESCENT INTO ALL DRILLED SHAFT EXCAVATIONS THAT ARE PROTECTED BY A CASING AND HAVE A DIAMETER THAT IS LARGE ENOUGH TO ALLOW A PERSON TO SAFELY ENTER AND PERFORM THE REQUIRED INSPECTION. ACCESS MAY BE PROVIDED BY A POSITIVE FORWARD AND REVERSE HYDRAULIC WINCH OR POWER-UP AND POWER-DOWN HOIST ON A CRANE. THE METHOD CHOSEN FOR ENTERING OR LEAVING THE SHAFT SHALL BE CONVENIENT, SAFE AND NOT UNCOMFORTABLE FOR THE USER. THE CONTRACTOR SHALL ALSO PROVIDE PROTECTIVE CLOTHING FOR THOSE MAKING AN INSPECTION OF THE SHAFT.

AN INSPECTION RECORD CHART HAS BEEN INCLUDED WITH THE PLANS ON SHEET 12B OF 120 AND SHOULD BE COMPLETED BY THE ENGINEER. MEASUREMENTS SHOULD BE OBTAINED PRIOR TO PLACING CONCRETE. THE CONTRACTOR SHOULD PROVIDE ALL NECESSARY EQUIPMENT NEEDED TO OBTAIN MEASUREMENTS FOR COMPLETEING THE CHART. THE CONTRACTOR SHALL ASSIST THE ENGINEER IN OBTAINING THESE MEASUREMENTS. WHEN THE INSPECTION RECORD CHART IS COMPLETED, THE PROJECT ENGINEER SHOULD SUBMIT A COPY TO THE BUREAU OF BRIDGES:

ATTENTION: FOUNDATION ENGINEER.

SAFETY PROVISIONS

THE CONTRACTOR SHALL HAVE AT THE JOB SITE ALL EQUIPMENT AND MATERIALS NEEDED TO PROVIDE SAFE CONSTRUCTION AND INSPECTION OF THE DRILLED SHAFTS AS REQUIRED BY CITY, STATE AND FEDERAL SAFETY REQUIREMENTS.

SAFETY PROVISIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE REQUIREMENTS SPECIFIED BY THE PLANS, SPECIAL PROVISIONS, AND PROPOSAL.

THE CONTRACTOR SHALL PROVIDE CONTINUOUS SURVEILLANCE OF ALL PERSONS IN THE DRILLED SHAFT EXCAVATIONS. AT ALL TIMES WHEN A PERSON IS IN THE DRILLED SHAFT EXCAVATION, PROVISIONS SHALL BE MADE FOR PUMPING FRESH AIR TO SAID PERSON. ALL LIGHTING SHALL BE WITH ELECTRICAL LIGHTS. MECHANICAL EQUIPMENT USED INSIDE THE SHAFTS SHALL BE OPERATED BY AIR OR ELECTRICITY. THE USE OF GASOLINE ENGINES OR OTHER TYPES OF EQUIPMENT PRODUCING FUMES THAT MAY ENTER THE EXCAVATION WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE GAS DETECTION AND OXYGEN ANALYZERS, AND SHALL TEST THE DRILLED SHAFT EXCAVATION ATMOSPHERE QUALITATIVELY THROUGHOUT THE COLUMN'S ENTIRE LENGTH AND ASSURE THAT THE QUANTITIES OF GASES AND OXYGEN PRESENT ARE IN SAFE AMOUNT AND SAFE PROPORTION PRIOR TO PERMITTING ANY PERSON TO ENTER THE SHAFT.

METHOD OF MEASUREMENT

THE TOTAL PAY LENGTH OF EACH DRILLED SHAFT SHALL BE THE COMPLETED AND ACCEPTED LENGTH, MEASURED ALONG THE AXIS OF THE DRILLED SHAFT FROM THE BOTTOM OF THE BEDROCK SOCKET TO THE PROPOSED TOP ELEVATION, AS PER PLAN.

BASIS OF PAYMENT

PAYMENT FOR FURNISHING AND INSTALLING DRILLED SHAFTS WILL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF ACCEPTED SHAFT LENGTH AS PER ITEM SPECIAL - "5'-6" DIAMETER DRILLED SHAFTS", WHICH SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE ITEMS AS SPECIFIED.

DESIGN PARAMETERS

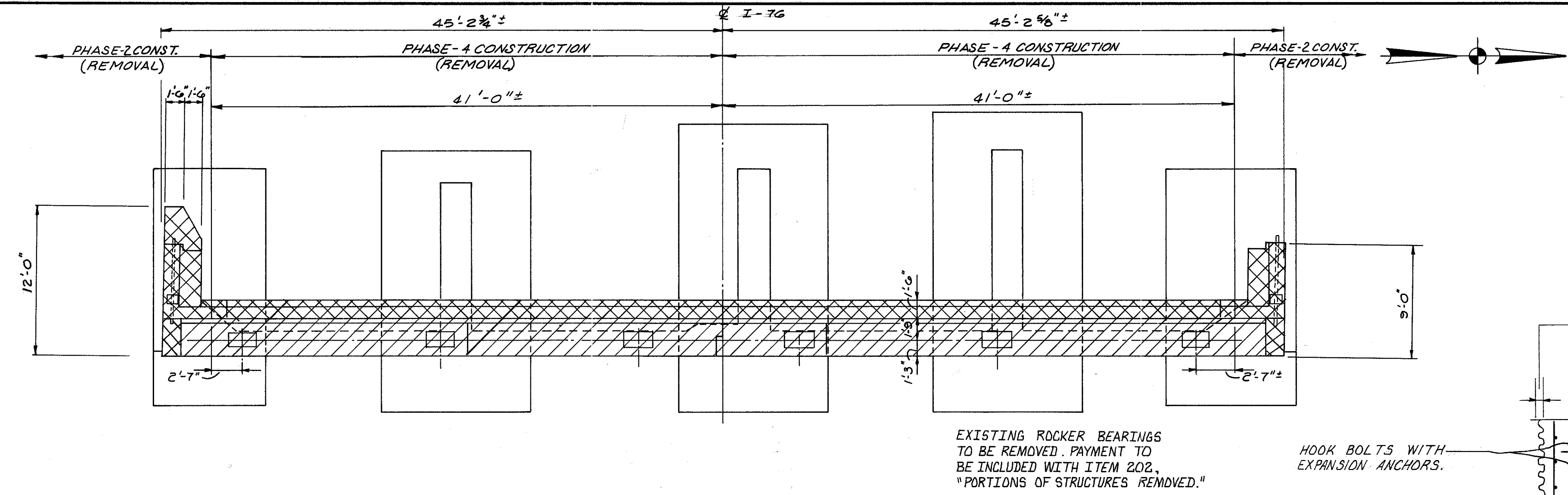
THE DRILLED SHAFT IS REQUIRED TO SUPPORT A 550 TON WORKING LOAD (LIVE AND DEAD LOAD) WHICH IS ASSUMED TO BE RESISTED BY SHAFT ADHESION AND BY SHAFT END BEARING PRESSURE. THE ALLOWABLE ADHESION IS 1.0 TON PER SQUARE FOOT WHICH IS ASSUMED TO ACT ALONG THE BOTTOM 40 FEET OF THE DRILLED SHAFT FOR PIER 3N AND ALONG THE BOTTOM 20 FEET OF THE DRILLED SHAFT FOR PIERS 6N AND 6S. THE ALLOWABLE END BEARING PRESSURE IS 25 TONS PER SQUARE FOOT.

STATE OF OHIO							12A/120
DEPARTMENT OF TRANSPORTATION							
BUREAU OF BRIDGES AND STRUCTURAL DESIGN							
DRILLED SHAFT NOTES							
BRIDGE NO. SUM-76 -1277							
AKRON EAST EXPRESSWAY							
WEST VIADUCT							
SUMMIT COUNTY							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
JPH	RJS	RJS	RLE	RLE	10/1/89		

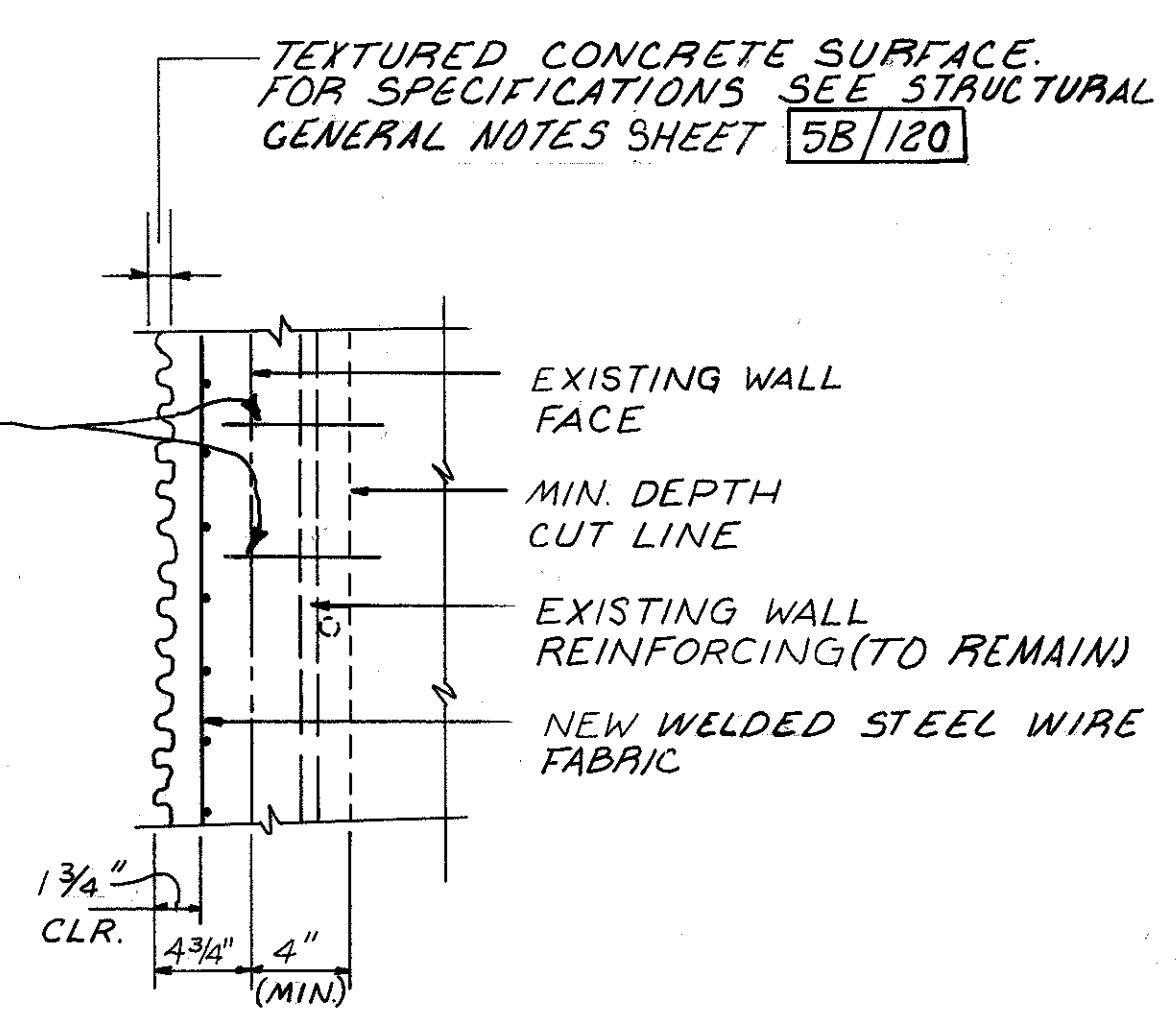
**SUMMIT COUNTY
SUM 76-11.57**

NOTES

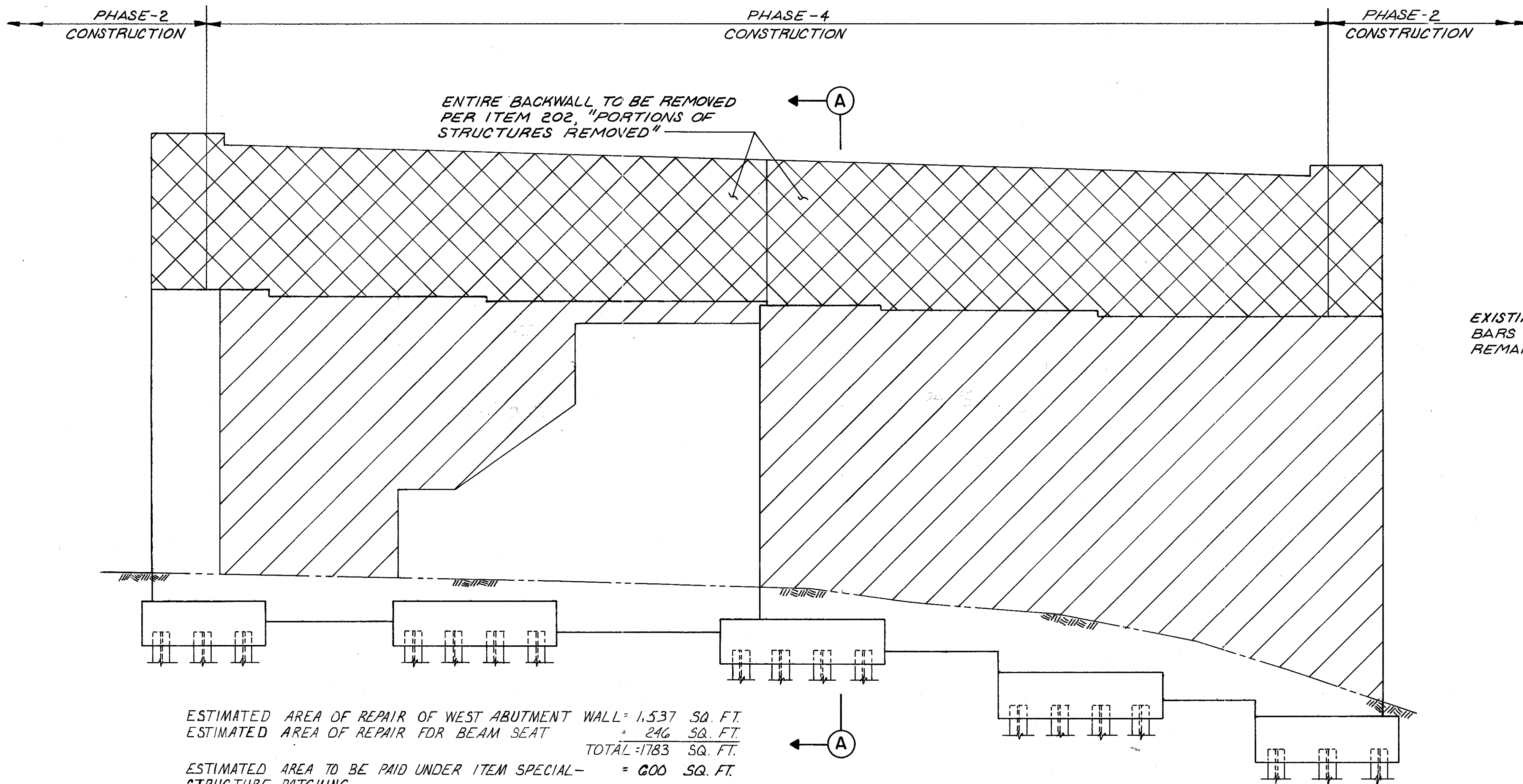
- SEE ITEM 511, CLASS C CONCRETE, ABUTMENTS, AS PER PLAN AND ITEM SPECIAL, STRUCTURE PATCHING NOTES ON SHEET 5C/120 FOR DESCRIPTION OF WORK.
- FOR ADDITIONAL NOTES SEE SHEET 14/120



PLAN

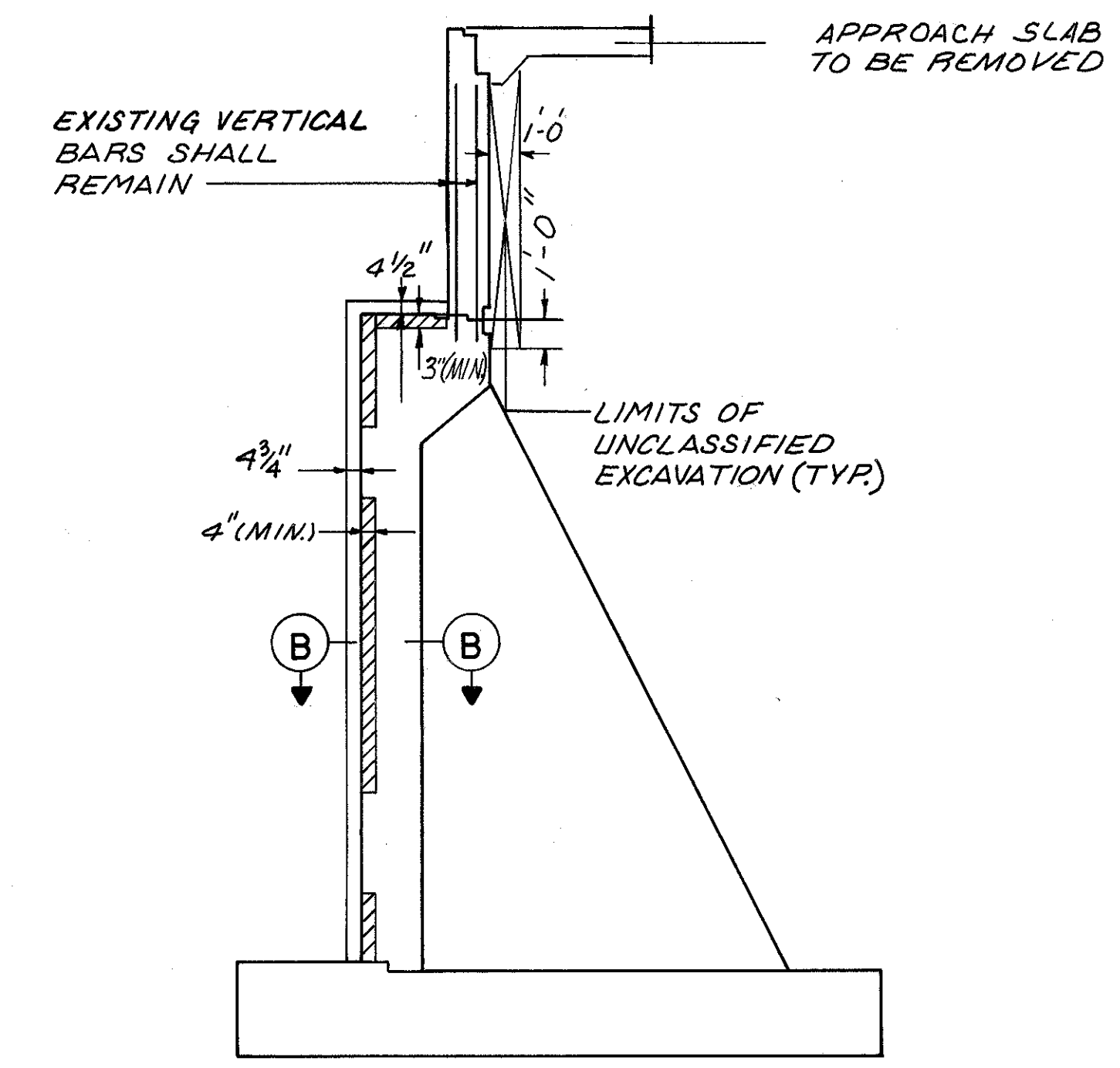


SECTION B-B



ELEVATION

ESTIMATED AREA OF REPAIR OF WEST ABUTMENT WALL = 1,537 SQ. FT.
 ESTIMATED AREA OF REPAIR FOR BEAM SEAT = 246 SQ. FT.
 TOTAL = 1,783 SQ. FT.
 ESTIMATED AREA TO BE PAID UNDER ITEM SPECIAL - STRUCTURE PATCHING = 600 SQ. FT.



SECTION A-A

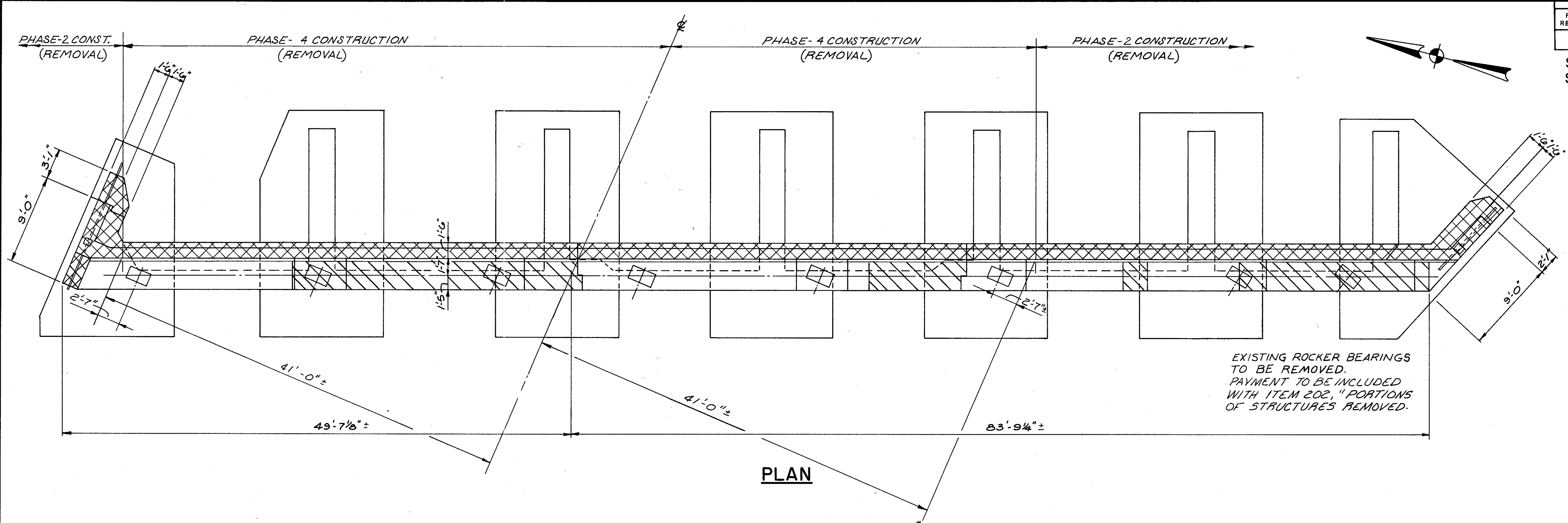
LEGEND

- INDICATES LIMITS OF EXISTING STRUCTURES TO BE TOTALLY REMOVED, AS PER ITEM 202.
- INDICATES AREA REQUIRING REMOVAL OF UNSOUND CONCRETE AND PREPARATION PER CMS ITEM 519. THE AREA SHOWN ARE APPROXIMATE. WHEN DEPTH OF REPAIR EQUALS 4" (3" ON HORIZONTAL SURFACES), ALL WORK WILL BE INCLUDED IN ITEM 511, CLASS "C" CONCRETE, ABUTMENTS, AS PER PLAN FOR PAYMENT. WHEN DEPTH OF REPAIR EXCEEDS 4" (3" ON HORIZONTAL SURFACES) PAYMENT SHALL BE MADE UNDER ITEM SPECIAL, STRUCTURE PATCHING.

McCOY ASSOCIATES INC. 13/120
 CONSULTING ENGINEERS
 AKRON, OHIO

**DEMOLITION AND REPAIRS
WEST ABUTMENT**
 BRIDGE No. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	DAK		M.A.M.	J.B.H.	3-30-85	

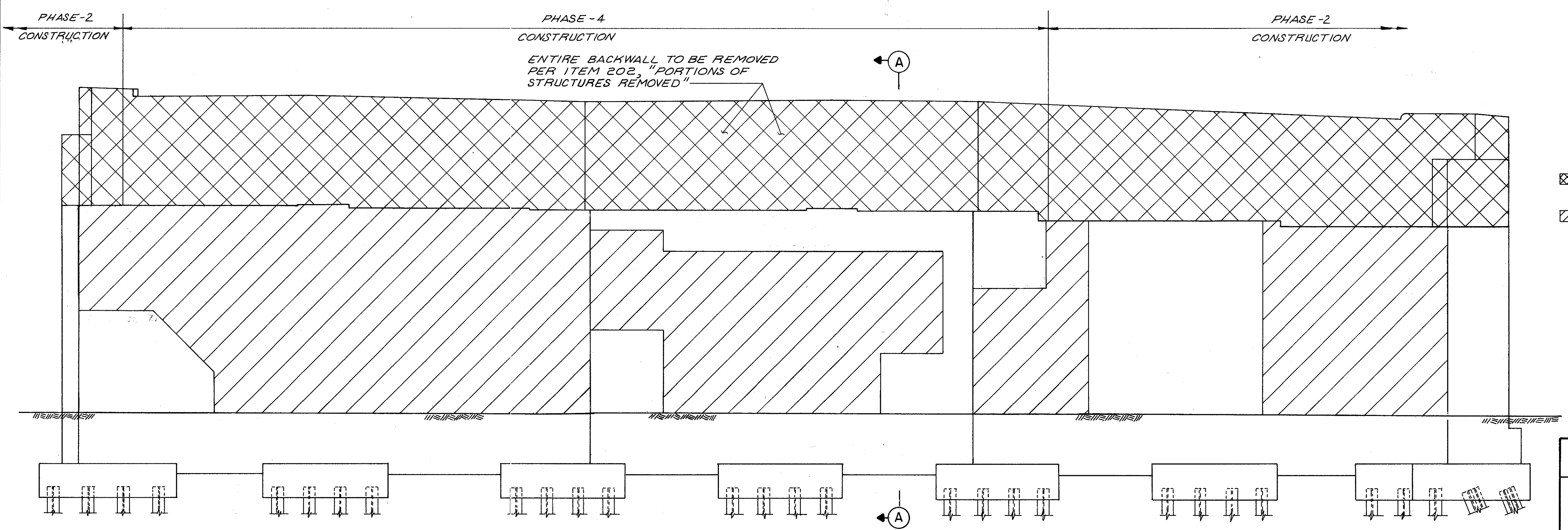


PLAN

EXISTING ROCKER BEARINGS TO BE REMOVED. PAYMENT TO BE INCLUDED WITH ITEM 202, "PORTIONS OF STRUCTURES REMOVED."

NOTES

- CARE SHALL BE TAKEN IN REMOVING EXISTING CONCRETE TO AVOID DAMAGING EXISTING REINFORCING. WHERE EXISTING BARS ARE DETERIORATED OR DAMAGED, NEW DOWELS OF THE SAME SIZE AND 60 DIA. LONGER THAN THE SECTION BEING REPLACED SHALL BE PROVIDED. EMBED DOWELS 30 DIA., AS DIRECTED BY THE ENGINEER INTO EXISTING CONCRETE WITH NON-SHRINK GROUT. PAYMENT FOR REMOVAL OF EXISTING CONCRETE SHALL BE INCLUDED WITH ITEM 202. PORTIONS OF STRUCTURE REMOVED. PAYMENT FOR REPLACING DETERIORATED BARS SHALL BE INCLUDED WITH ITEM 509 EPOXY COATED REINFORCING STEEL AND ITEM 510 DOWEL HOLES. ESTIMATED QUANTITIES OF 1,000 POUNDS OF ITEM 509 EPOXY COATED REINFORCING STEEL AND 200 EACH, ITEM 510 DOWEL HOLES HAVE BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.
- FOR SECTION A-A SEE SHEET 13/120
- FOR ADDITIONAL NOTES SEE SHEET 13/120



ELEVATION

LEGEND

- INDICATES LIMITS OF EXISTING STRUCTURES TO BE TOTALLY REMOVED, AS PER ITEM 202.
- INDICATES AREA REQUIRING REMOVAL OF UNSOUND CONCRETE AND PREPARATION PER CMS ITEM 519. WHEN DEPTH OF REPAIR EQUALS 4" (3" HORIZONTAL SURFACES), ALL WORK WILL BE INCLUDED IN ITEM 511, CLASS C CONCRETE. ABUTMENTS, AS PER PLAN FOR PAYMENT. WHEN DEPTH EXCEEDS 4" (3" HORIZONTAL SURFACES), PAYMENT SHALL BE MADE UNDER ITEM SPECIAL, STRUCTURE PATCHING. THE AREAS SHOWN ARE APPROXIMATE.

ESTIMATED AREA OF REPAIR OF WEST ABUTMENT WALL = 2,083 SQ. FT.
 ESTIMATED AREA OF REPAIR FOR BEAM SEAT = 183 SQ. FT.
 TOTAL = 2,266 SQ. FT.
 ESTIMATED AREA TO BE PAID UNDER ITEM SPECIAL, STRUCTURE PATCHING = 800 SQ. FT.

McCOY ASSOCIATES INC. 14/120
 CONSULTING ENGINEERS
 AKRON, OHIO

DEMOLITION AND REPAIRS
EAST ABUTMENT
 BRIDGE NO. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

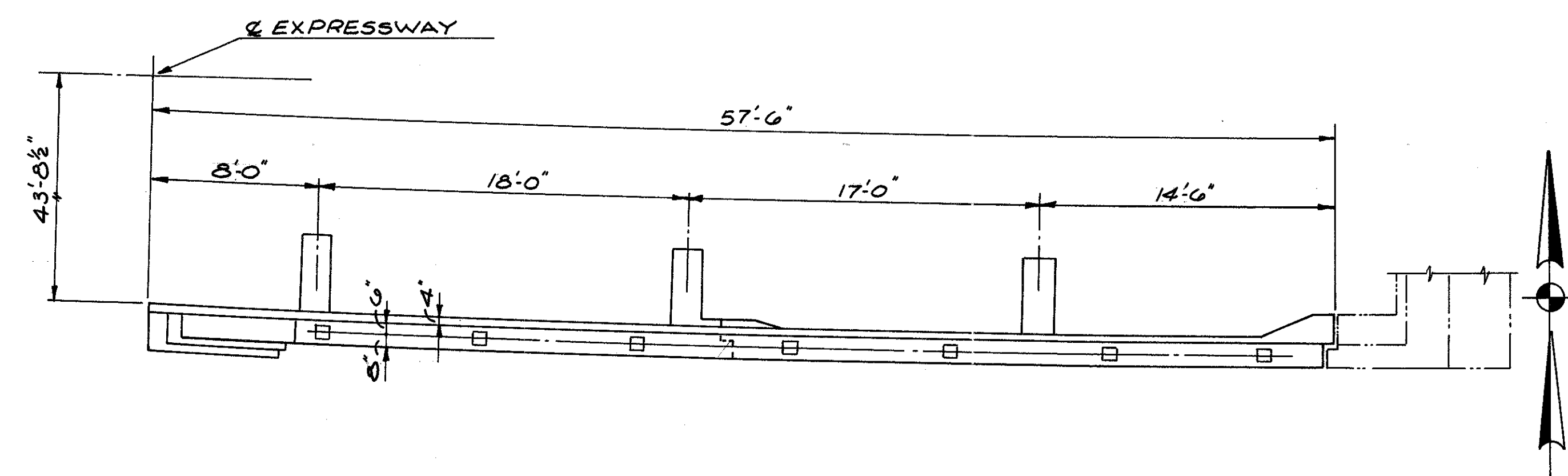
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	D.A.K.		M.A.M.	J.B.H.	3-30-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

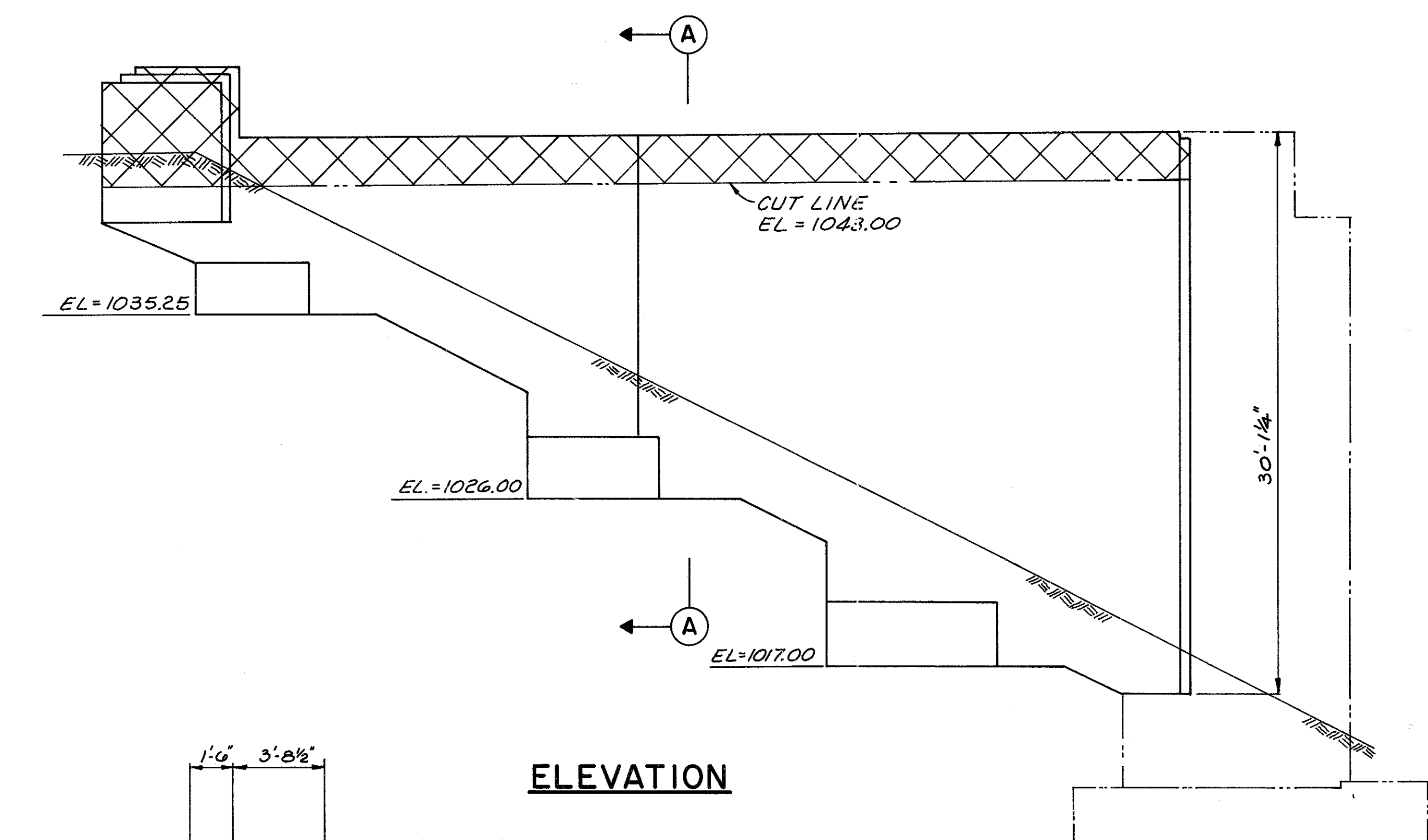
956
1214

SUMMIT COUNTY
SUM 76-II.57

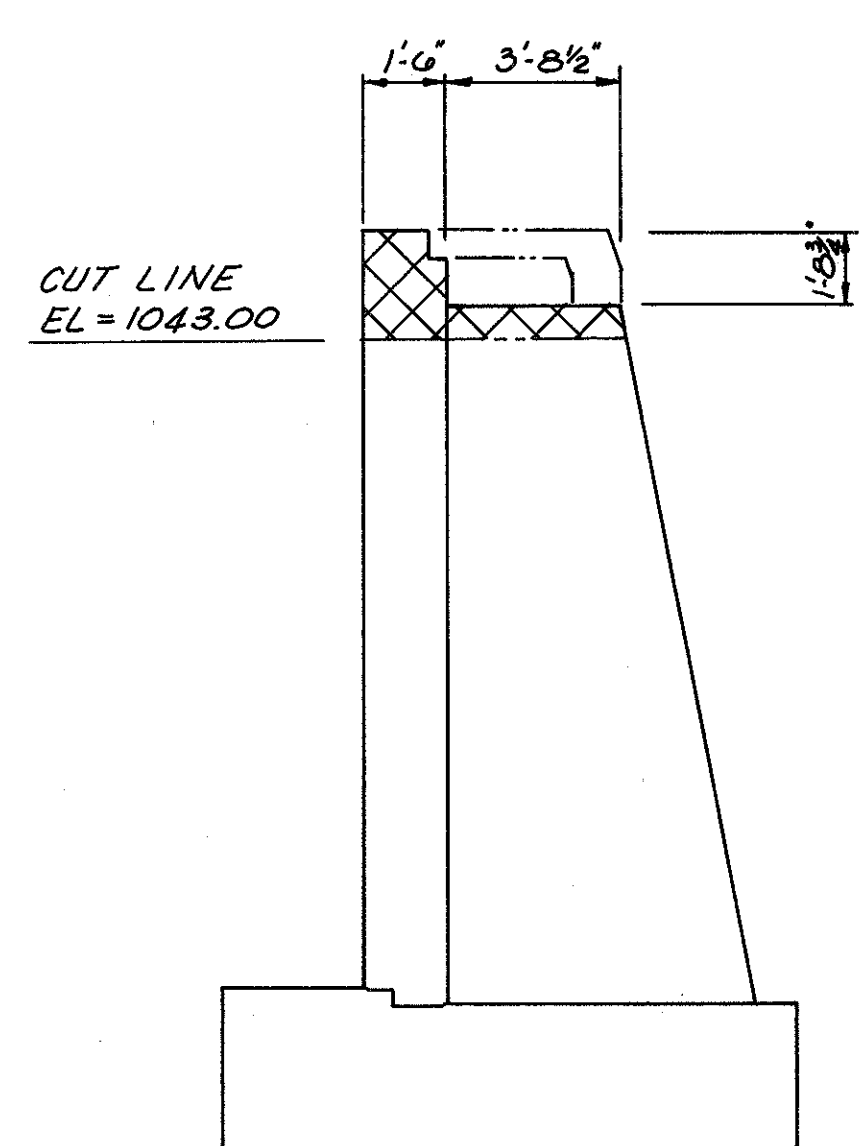
NOTES



PLAN



ELEVATION



SECTION A-A

LEGEND

- ▣ INDICATES LIMITS OF EXISTING STRUCTURES TO BE TOTALLY REMOVED, AS PER ITEM 202.
- ▨ INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES. THE AREAS SHOWN ON THIS DRAWING ARE APPROXIMATE. FINAL DETERMINATION OF THE AREAS TO BE REPAIRED WILL BE MADE BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

McCOY ASSOCIATES INC. 15 / 120
CONSULTING ENGINEERS
AKRON, OHIO

DEMOLITION
WEST ABUTMENT WINGWALLS
BRIDGE No. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

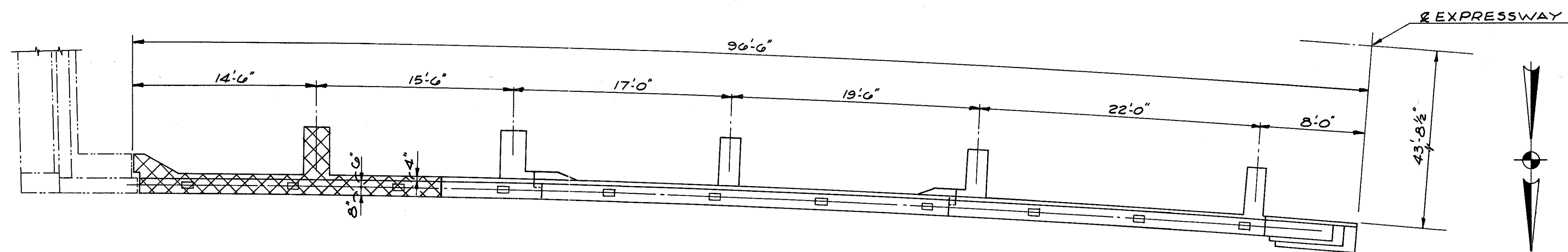
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	D.A.K.		M.A.M.	J.B.H.	3-30-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

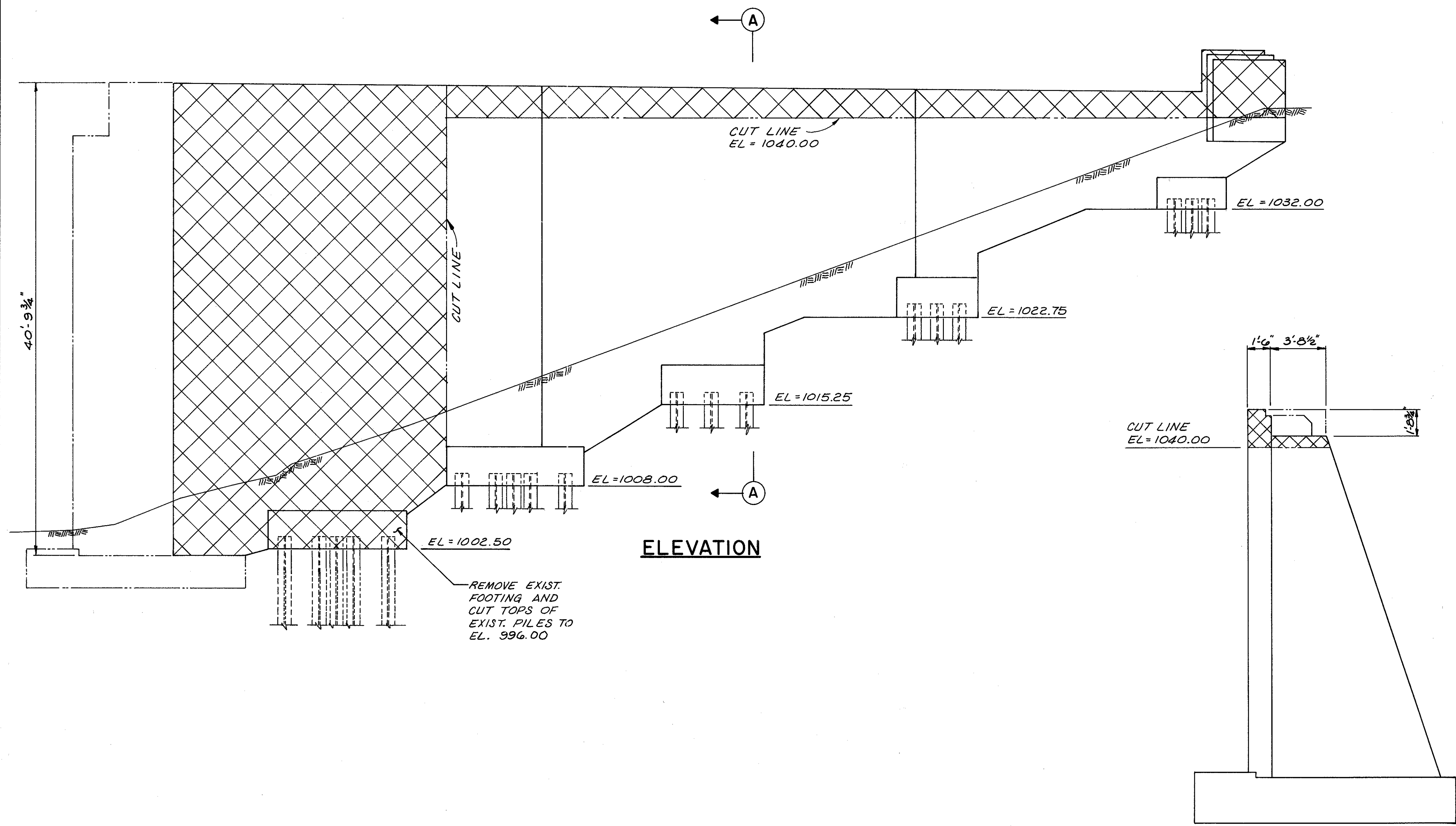
957
1214

SUMMIT COUNTY
SUM 76 - 11.57

NOTES



PLAN



ELEVATION

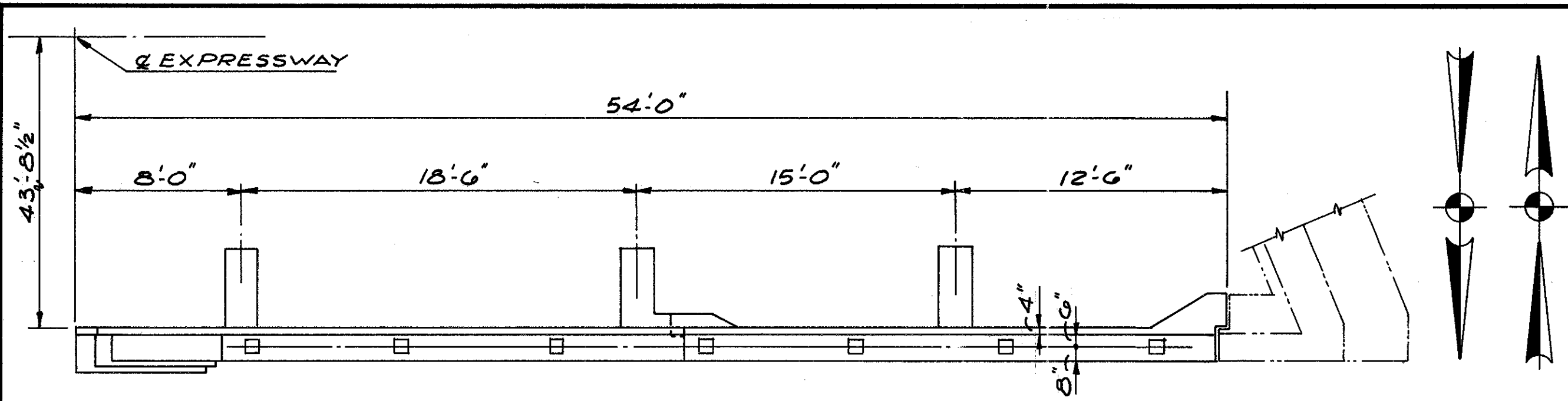
SECTION A-A

LEGEND

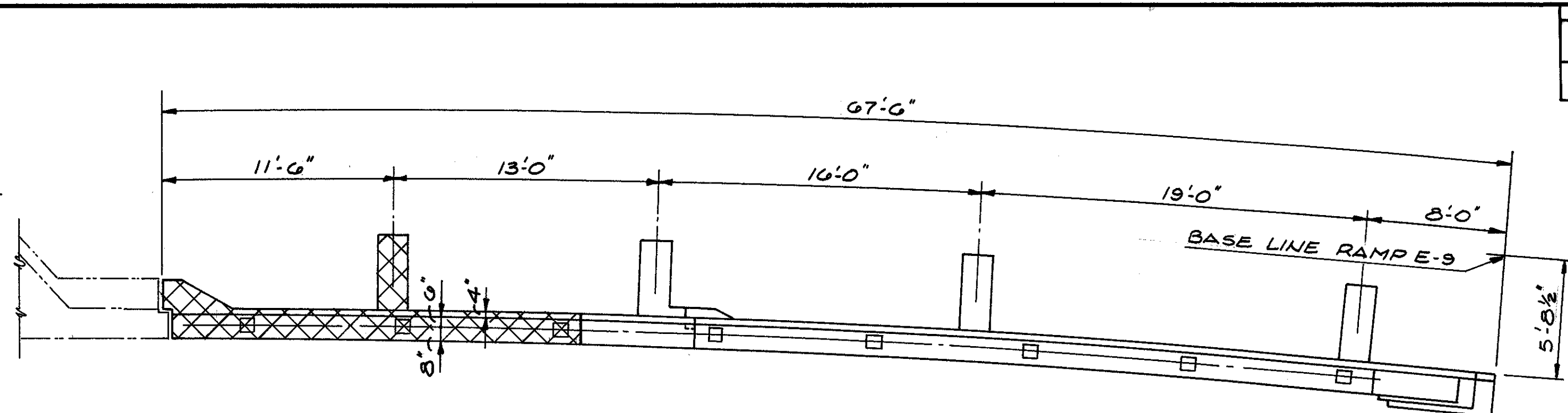
- INDICATES LIMITS OF EXISTING STRUCTURES TO BE TOTALLY REMOVED, AS PER ITEM 202.
- INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES. THE AREAS SHOWN ON THIS DRAWING ARE APPROXIMATE. FINAL DETERMINATION OF THE AREAS TO BE REPAIRED WILL BE MADE BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

McCOY ASSOCIATES INC. 16/120 CONSULTING ENGINEERS AKRON, OHIO						
DEMOLITION WEST ABUTMENT WINGWALLS BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY, WEST VIADUCT						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	D.A.K.		M.A.M.	J.B.H.	3-30-89	

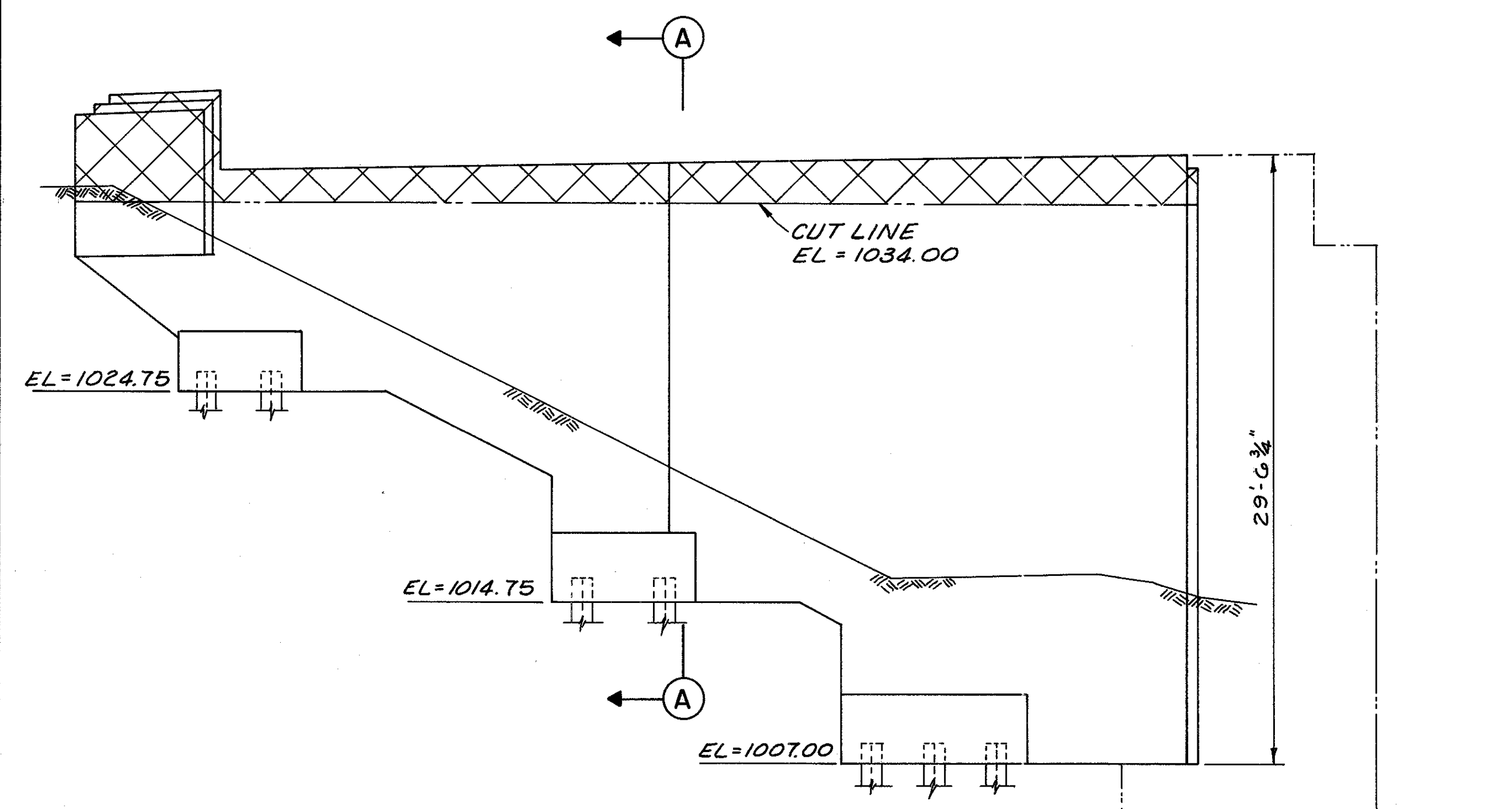
NOTES



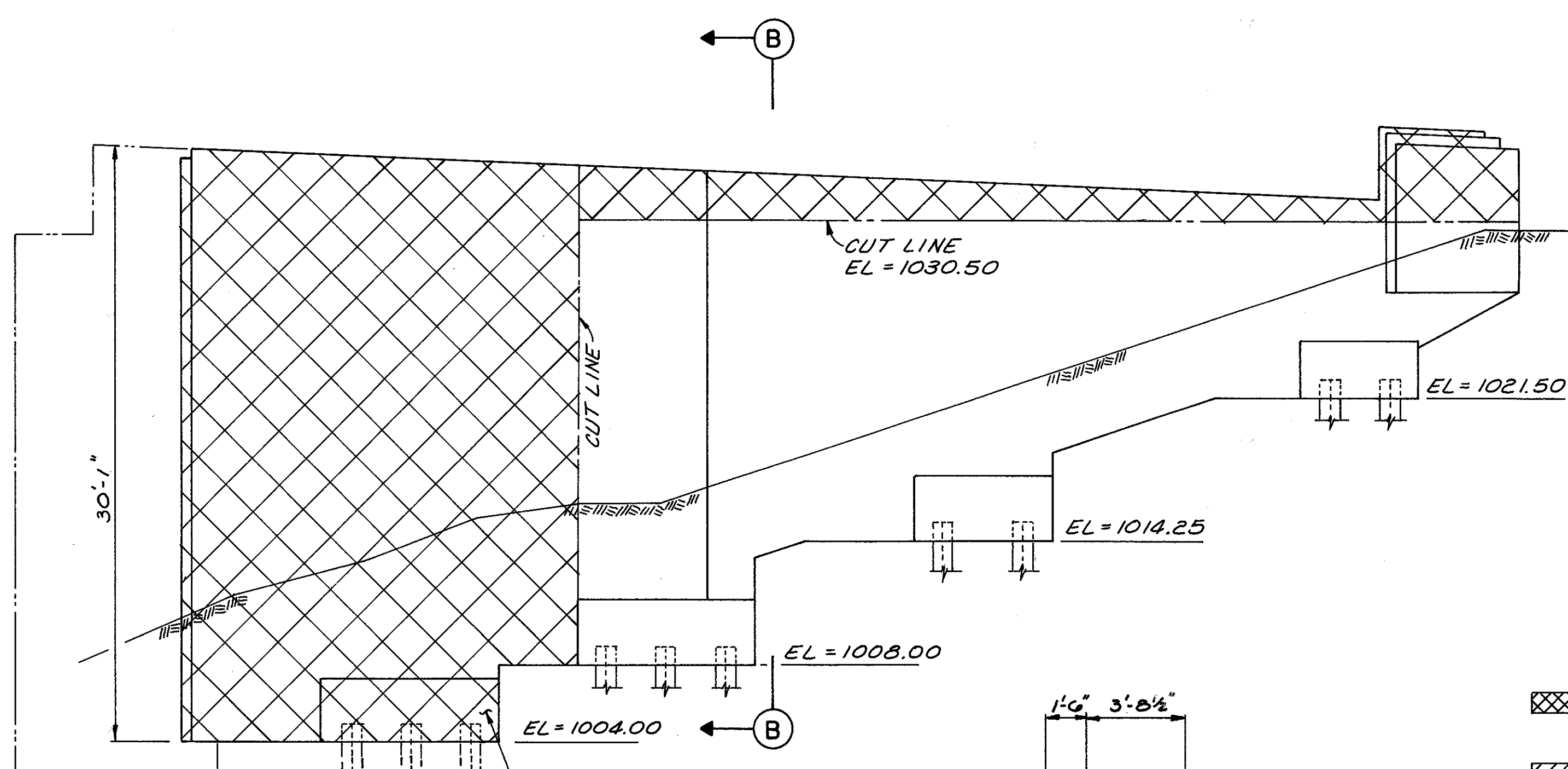
PLAN



PLAN

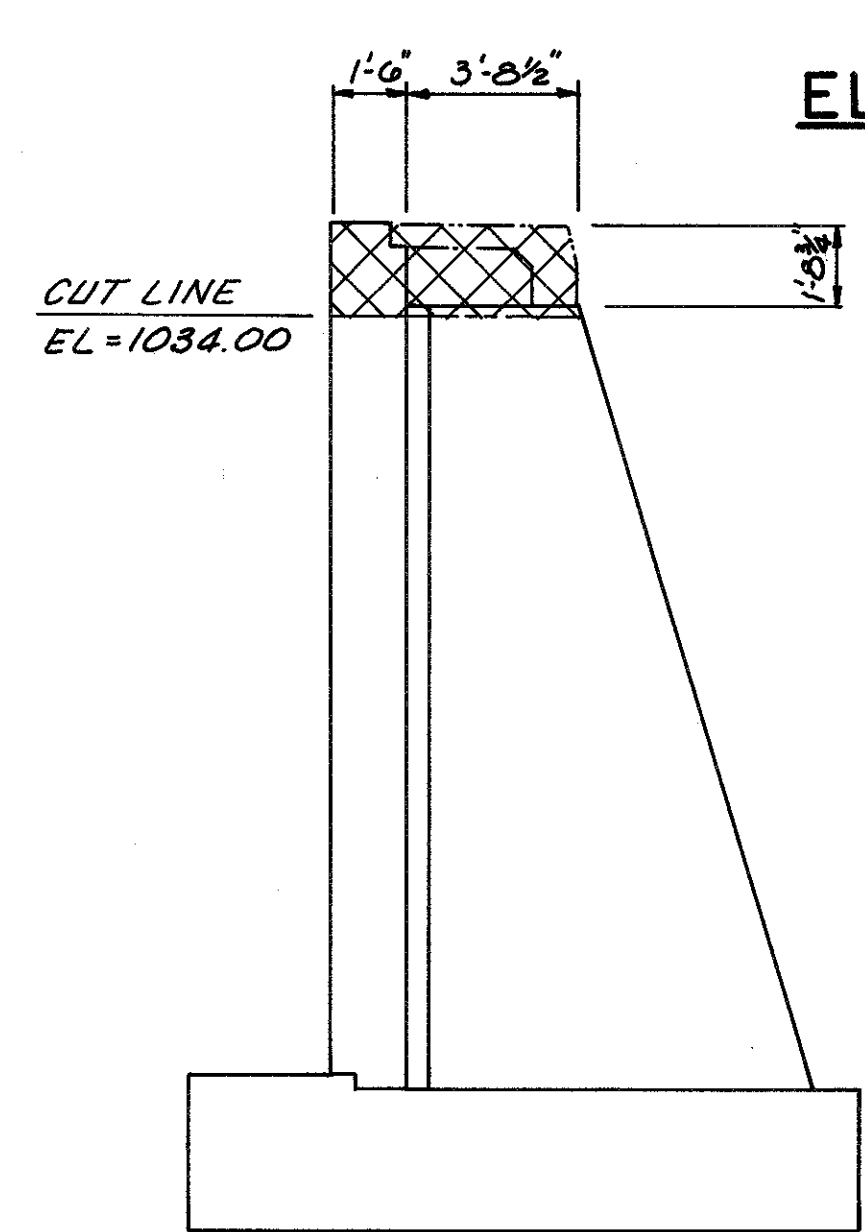


ELEVATION

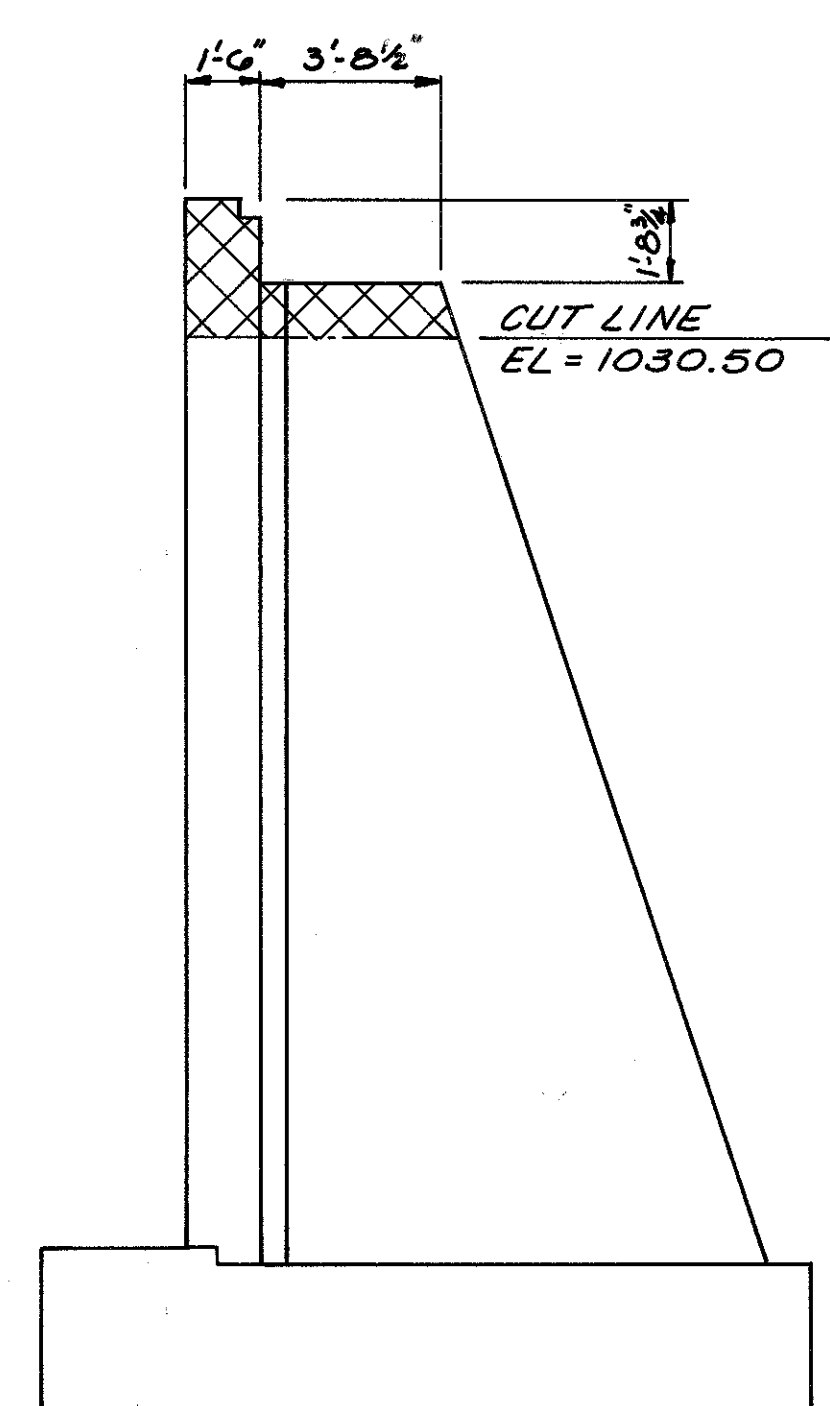


ELEVATION

- LEGEND**
- INDICATES LIMITS OF EXISTING STRUCTURES TO BE TOTALLY REMOVED, AS PER ITEM 202.
 - INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES. THE AREAS SHOWN ON THIS DRAWING ARE APPROXIMATE. FINAL DETERMINATION OF THE AREAS TO BE REPAIRED WILL BE MADE BY THE ENGINEER AT THE TIME OF CONSTRUCTION.



SECTION A-A



SECTION B-B

McCOY ASSOCIATES INC. 17 / 120
CONSULTING ENGINEERS
AKRON, OHIO

**DEMOLITION
EAST ABUTMENT WINGWALLS**

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	D.A.K.		M.A.M.	J.B.H.	3-30-87	

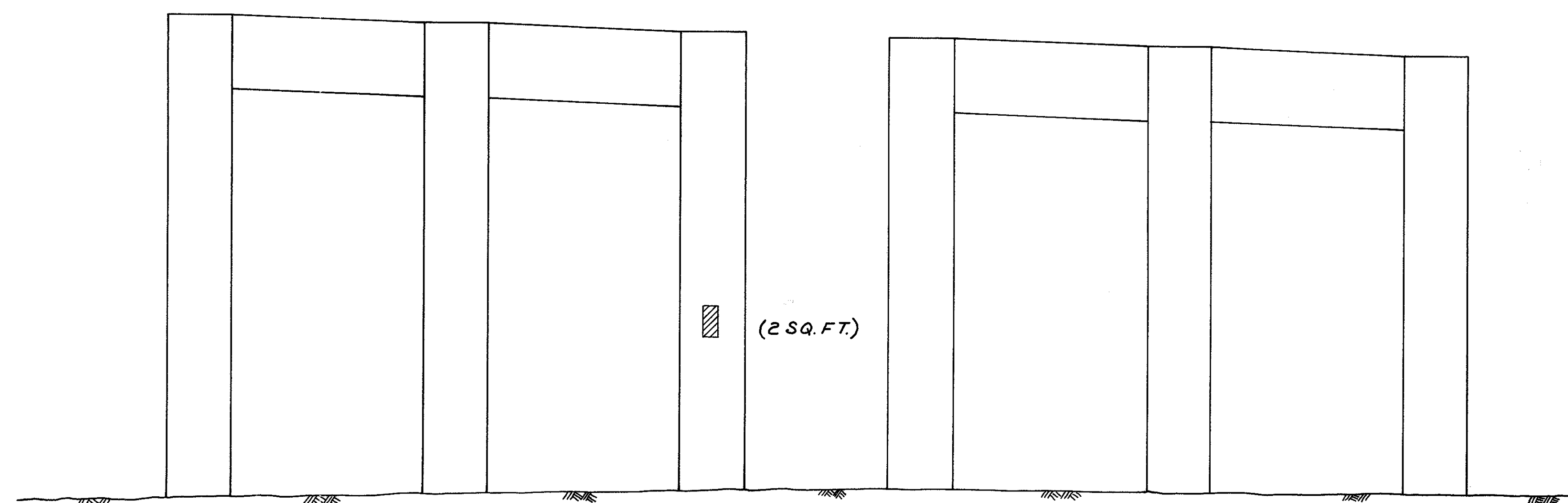
FHWA REGION	STATE	PROJECT	
5	OHIO		

959
1214

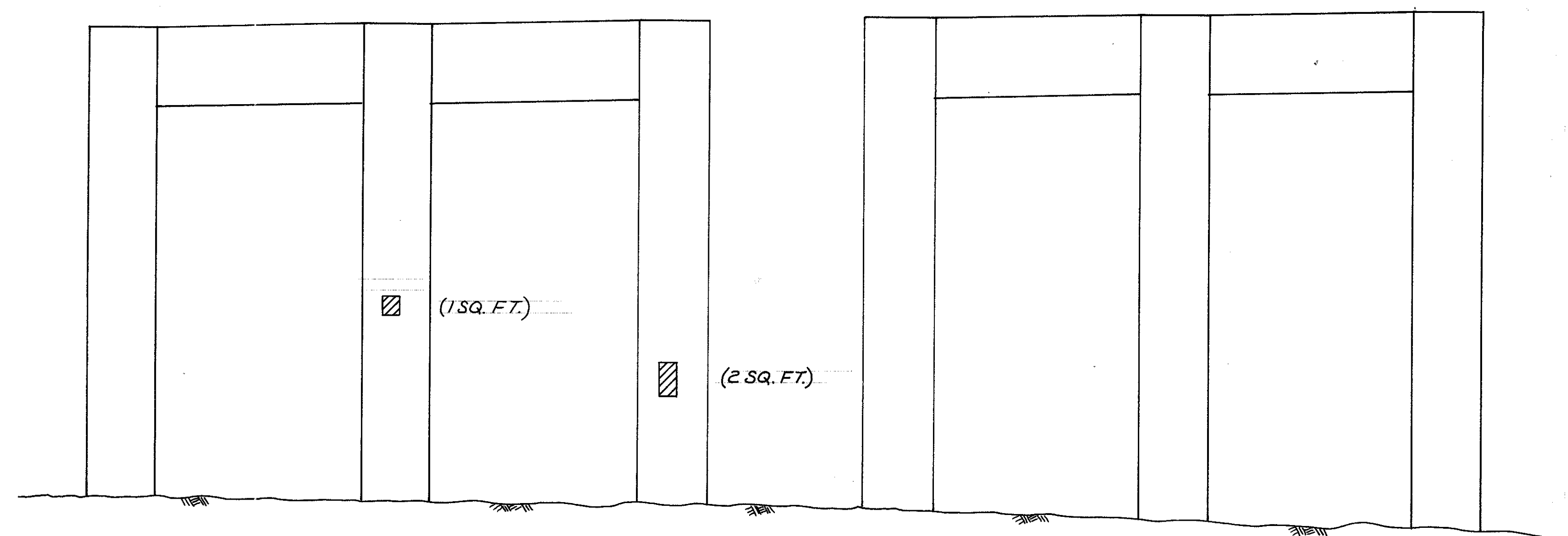
SUMMIT COUNTY
SUM 76-II.57



PLAN



WEST ELEVATION



EAST ELEVATION

LEGEND
 ▨▨▨ INDICATES AREA TO BE REPAIRED
 BY ITEM 519 - PATCHING CONCRETE
 STRUCTURES. (TOTAL THIS SHT. = 5 S.F.)

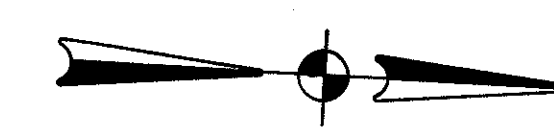
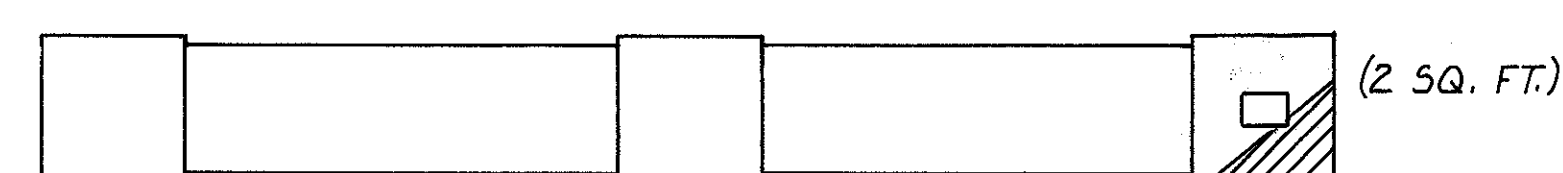
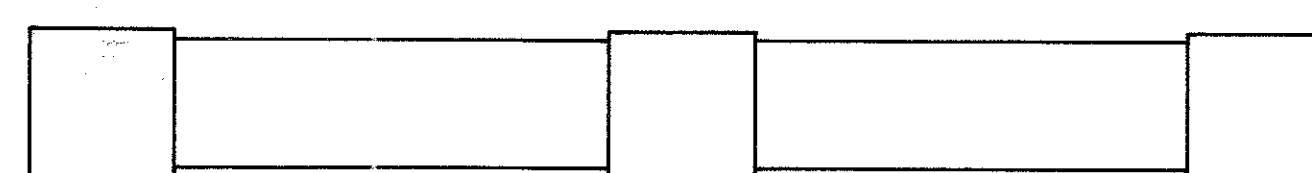
McCOY ASSOCIATES INC. 18 / 120
 CONSULTING ENGINEERS
 AKRON, OHIO
SUBSTRUCTURE REPAIRS
PIER I
 BRIDGE NO. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	DAK		M.A.M.	JBH	3-30-89	

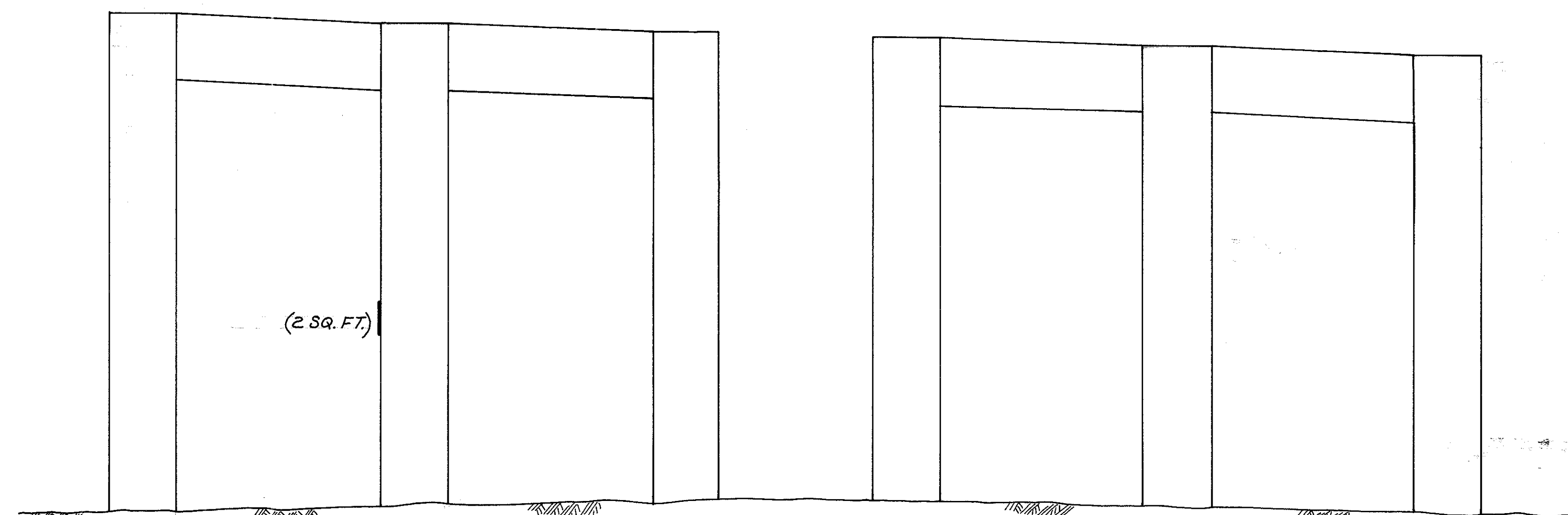
FHWA REGION	STATE	PROJECT	
5	OHIO		

960
1214

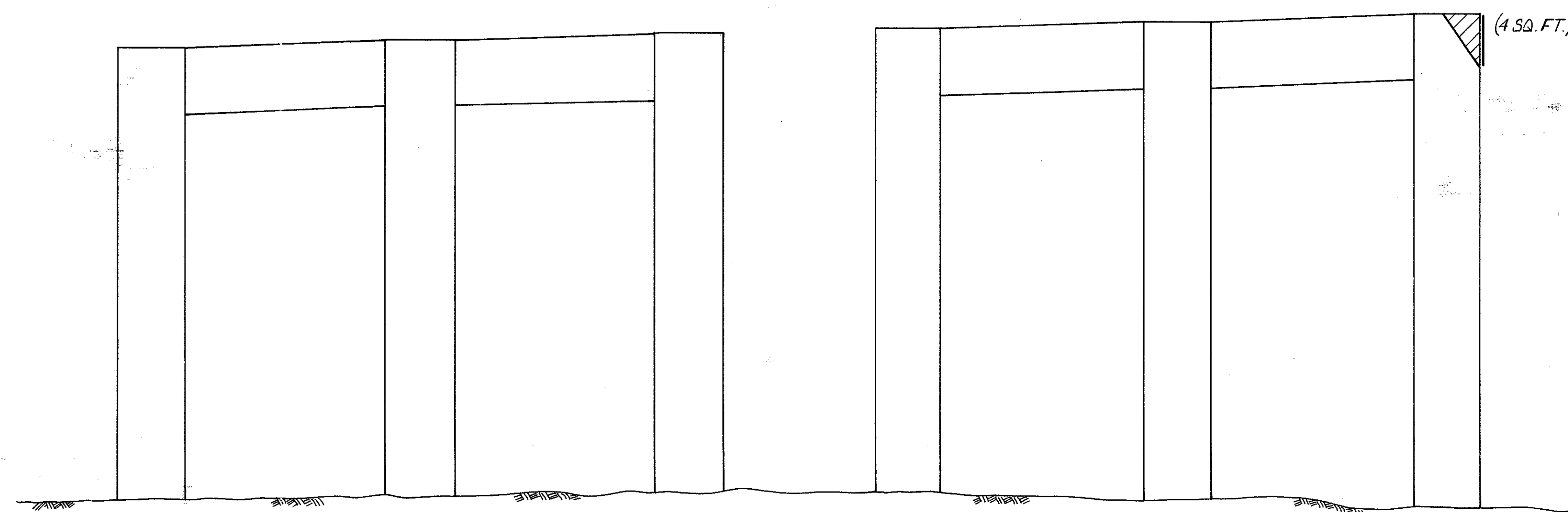
SUMMIT COUNTY
SUM 76-11.57



PLAN



WEST ELEVATION



EAST ELEVATION

LEGEND
 [Hatched Box] INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES. (TOTAL THIS SHT. = 8 S.F.)

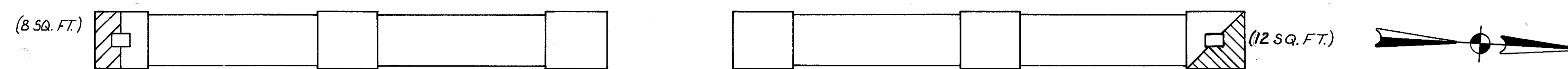
NOTE: SHEET 20/120 IS NOT USED

McCoy Associates Inc. 19/120					
CONSULTING ENGINEERS AKRON, OHIO					
SUBSTRUCTURE REPAIRS					
PIER 2					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T.A.B.	DAK		M.A.M.	JBH	3-30-87

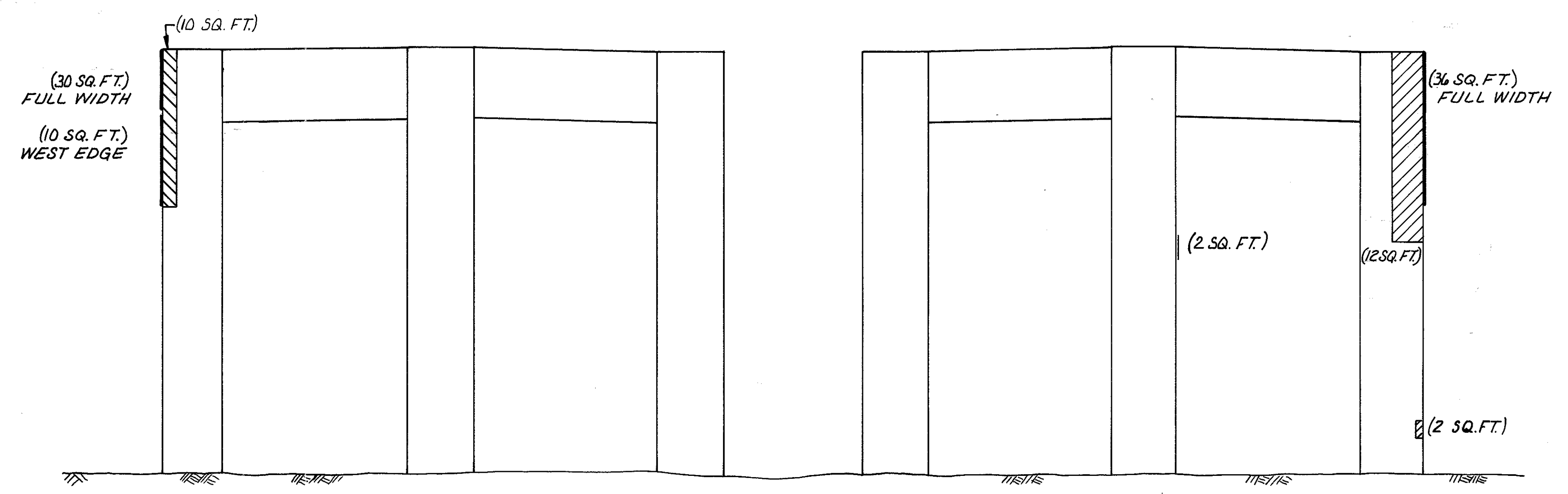
FHWA REGION	STATE	PROJECT	
5	OHIO		

961
1214

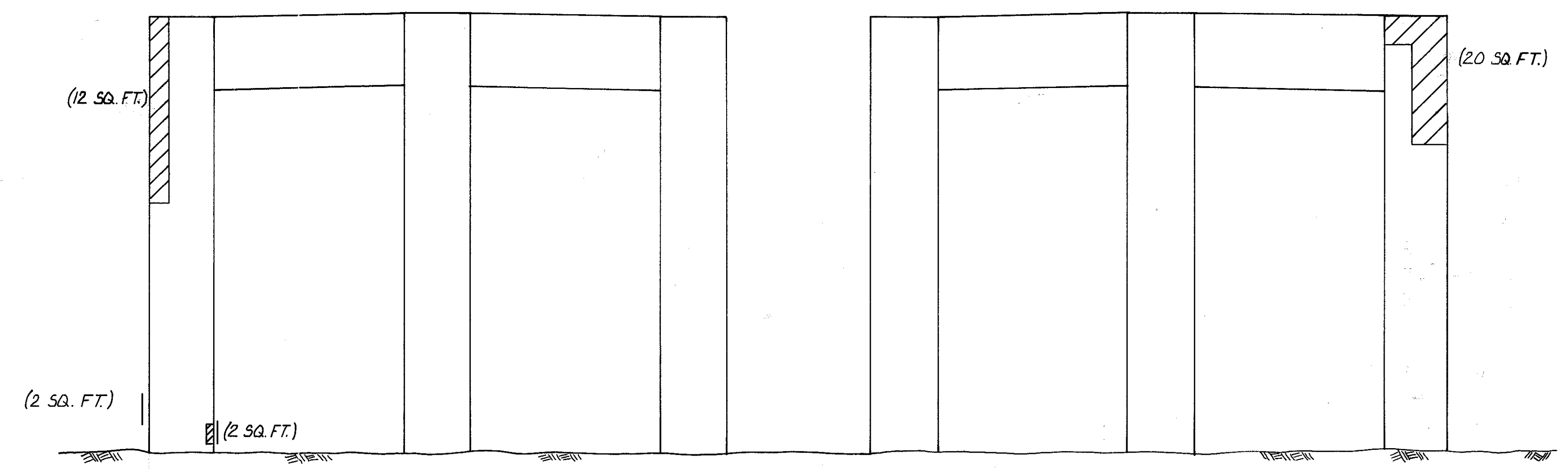
SUMMIT COUNTY
SUM 76-11.57



PLAN



WEST ELEVATION

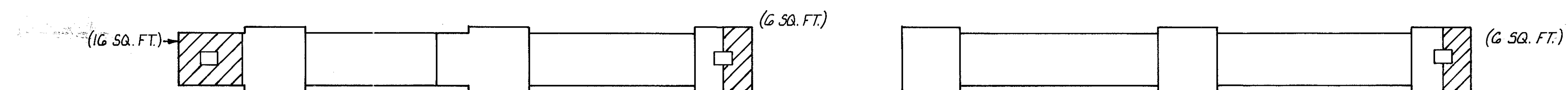


EAST ELEVATION

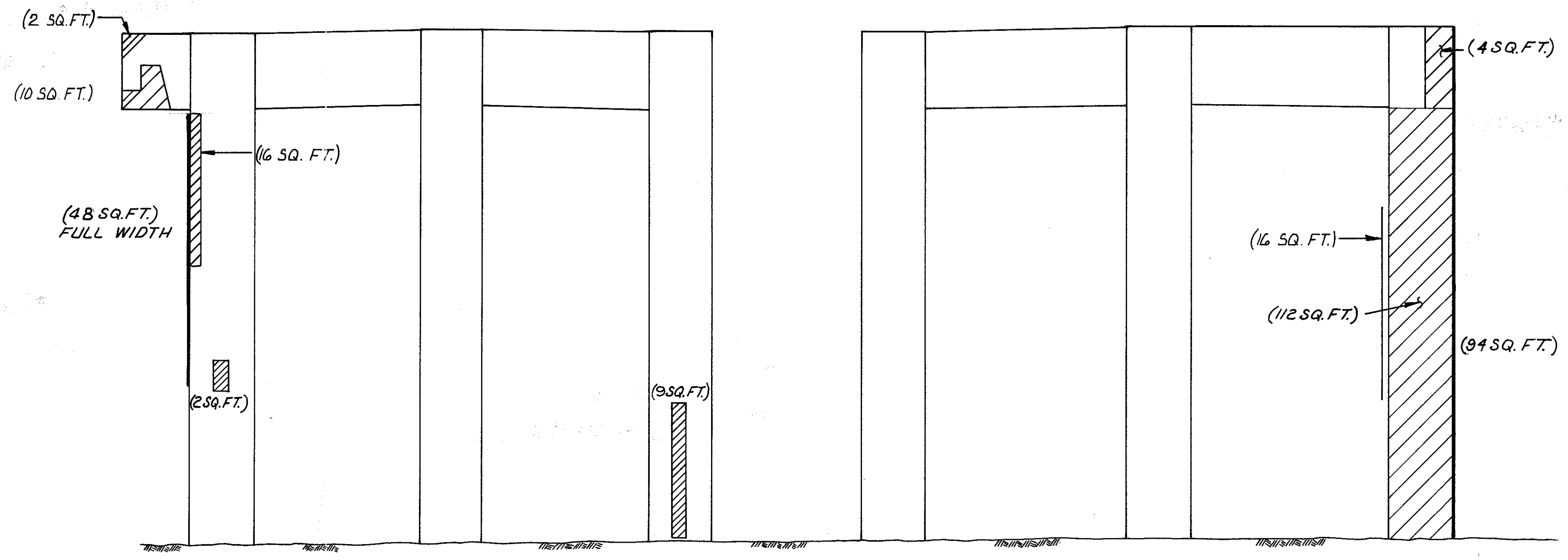
LEGEND
 INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES. (TOTAL THIS SHT. = 146 S. F.)

NOTE: SHEET 20/120 IS NOT USED.

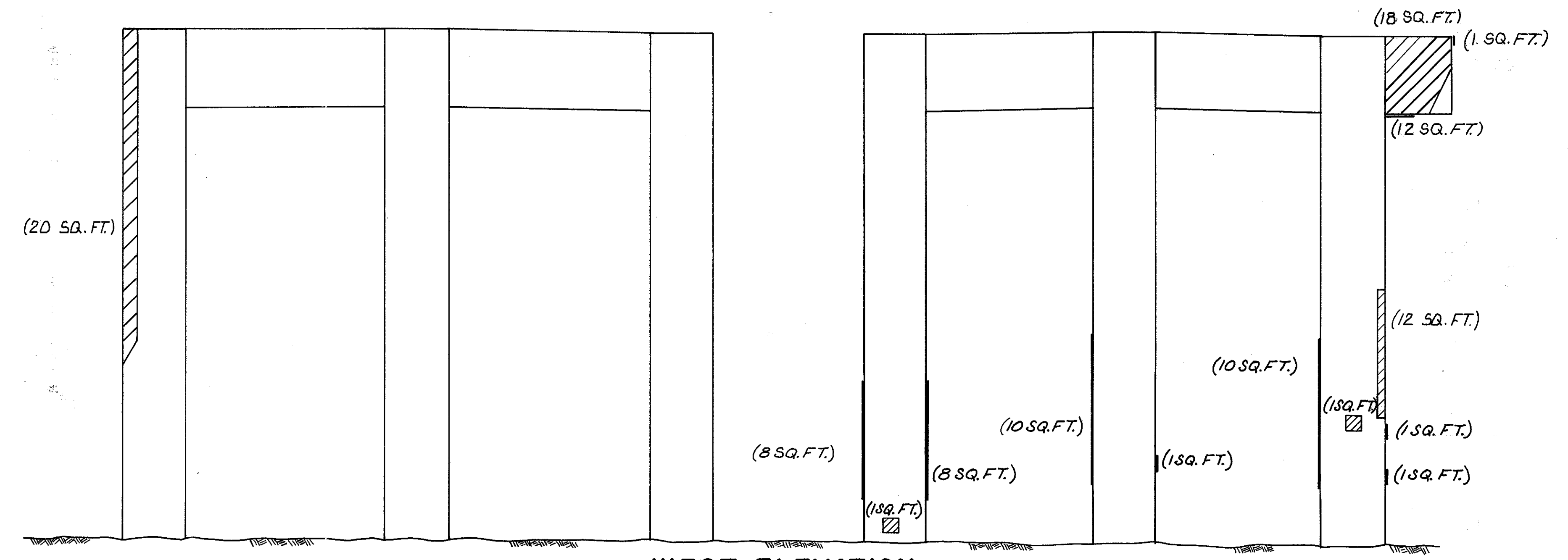
McCoy Associates Inc. 21 / 120					
CONSULTING ENGINEERS AKRON, OHIO					
SUBSTRUCTURE REPAIRS					
PIER 4					
BRIDGE NO. SUM. 76-1277					
AKRON EAST EXPRESSWAY					
WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T.A.B.	DAK		M.A.M.	J.B.H.	3-30-85
REVISED					



PLAN



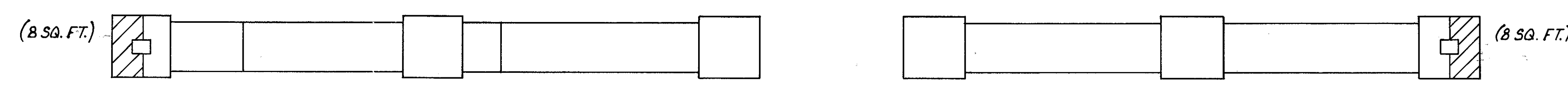
EAST ELEVATION



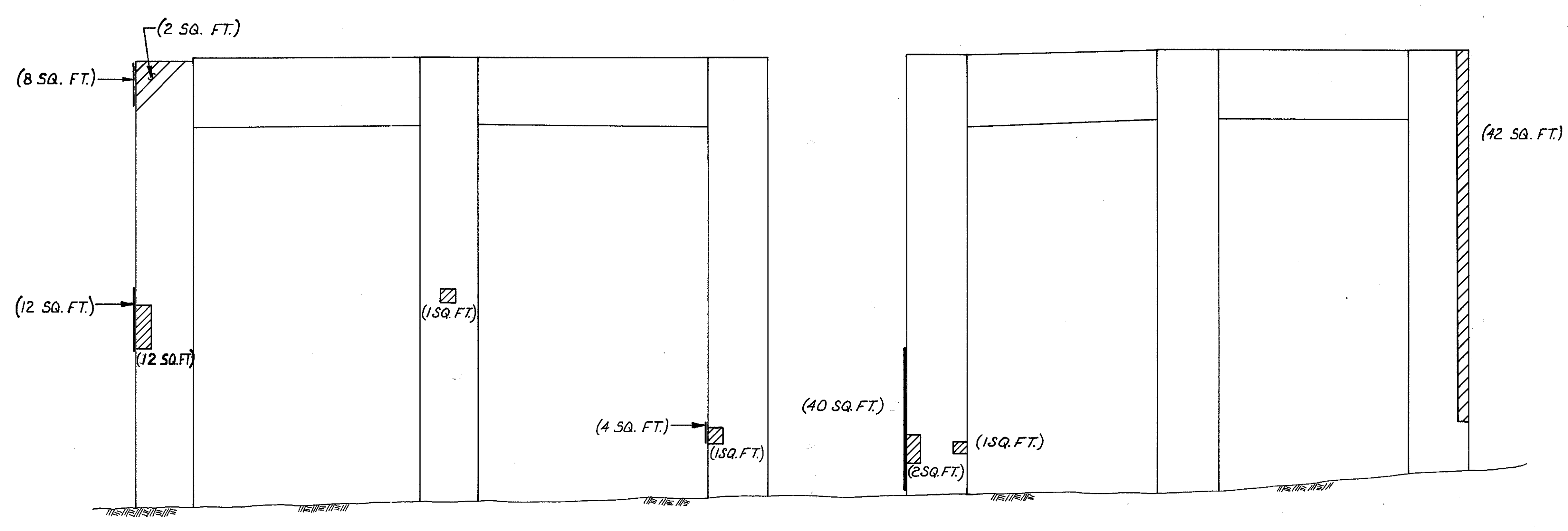
WEST ELEVATION

LEGEND
 INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURE (TOTAL THIS SHT. = 445 S.F.)

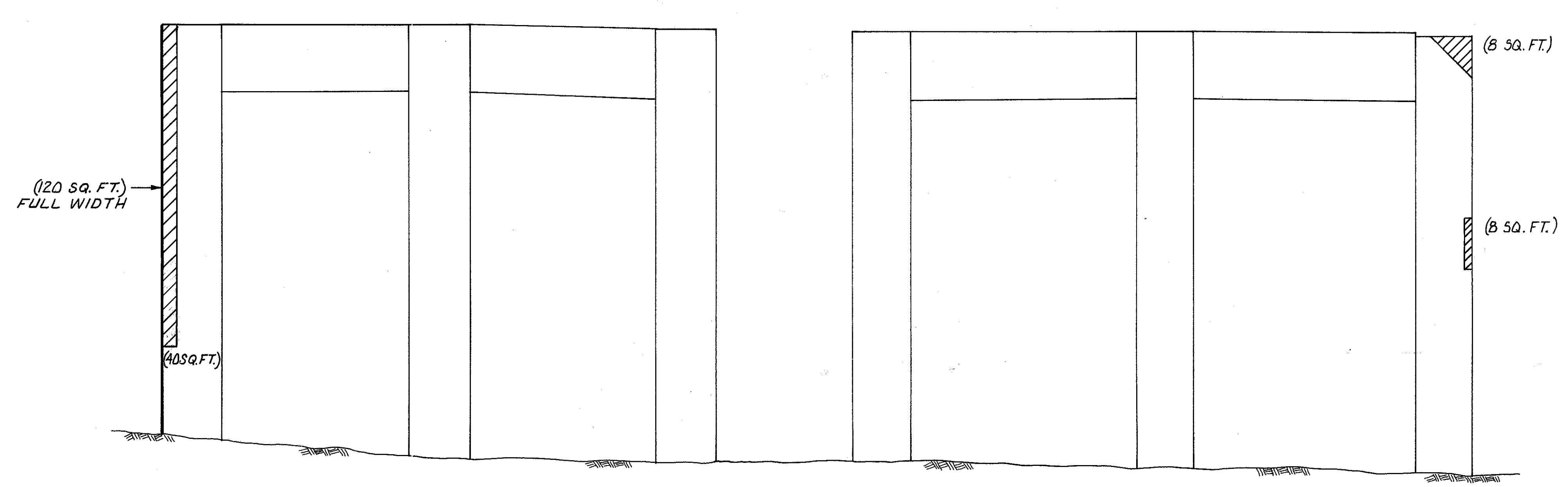
McCOY ASSOCIATES INC. 22/120					
CONSULTING ENGINEERS AKRON, OHIO					
SUBSTRUCTURE REPAIRS					
PIER 5					
BRIDGE NO. SUM. 76-1277					
AKRON EAST EXPRESSWAY					
WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T.A.B.	DAK		M.A.M.	J.B.H.	3-30-85



PLAN



WEST ELEVATION

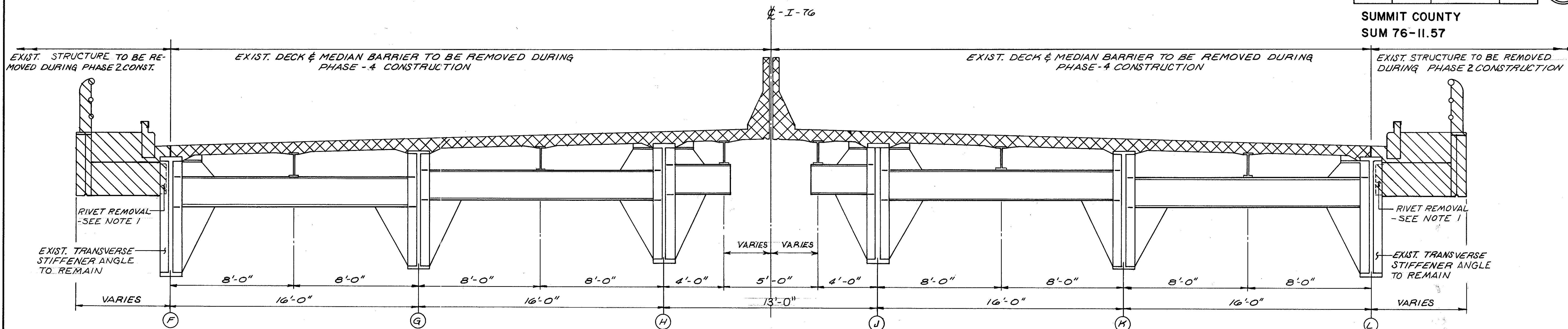


EAST ELEVATION

LEGEND
 INDICATES AREA TO BE REPAIRED BY ITEM 519 - PATCHING CONCRETE STRUCTURES (TOTAL THIS SHT. = 317 S.F.)

McCOY ASSOCIATES INC. 23/120					
CONSULTING ENGINEERS AKRON, OHIO					
SUBSTRUCTURE REPAIRS					
PIER 6					
BRIDGE NO. SUM. 76-1277					
AKRON EAST EXPRESSWAY					
WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T.A.B.	DAK		M.A.M.	J.B.H.	3-30-85

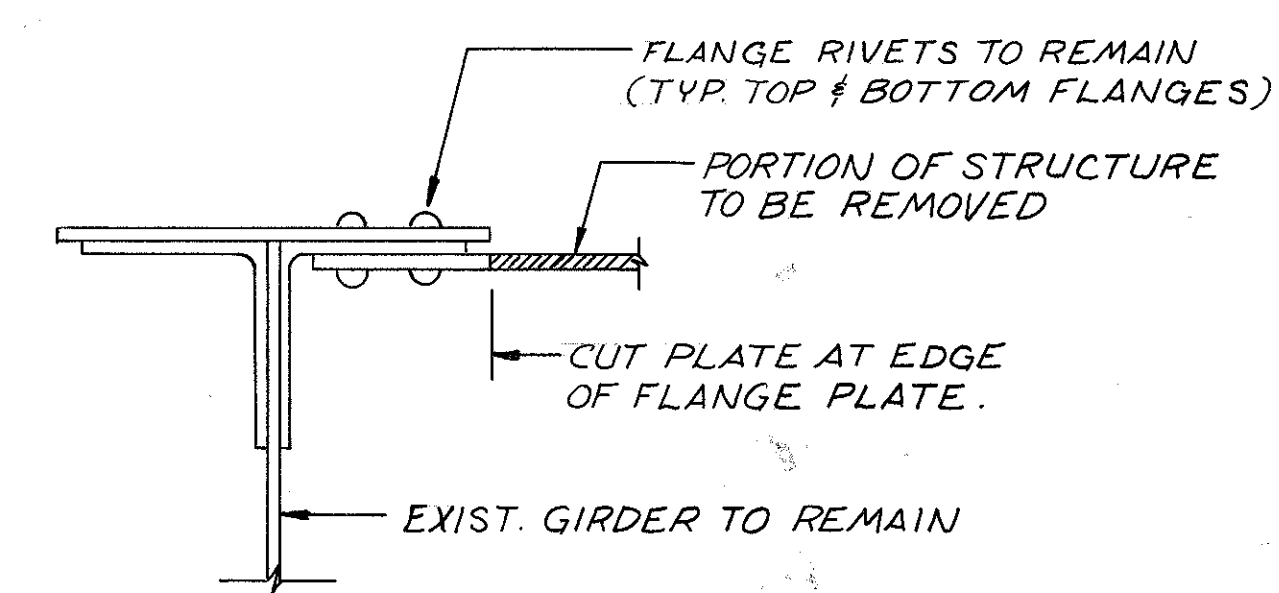
**SUMMIT COUNTY
SUM 76-II.57**



WEST BOUND

EAST BOUND

EXISTING TRANSVERSE SECTION



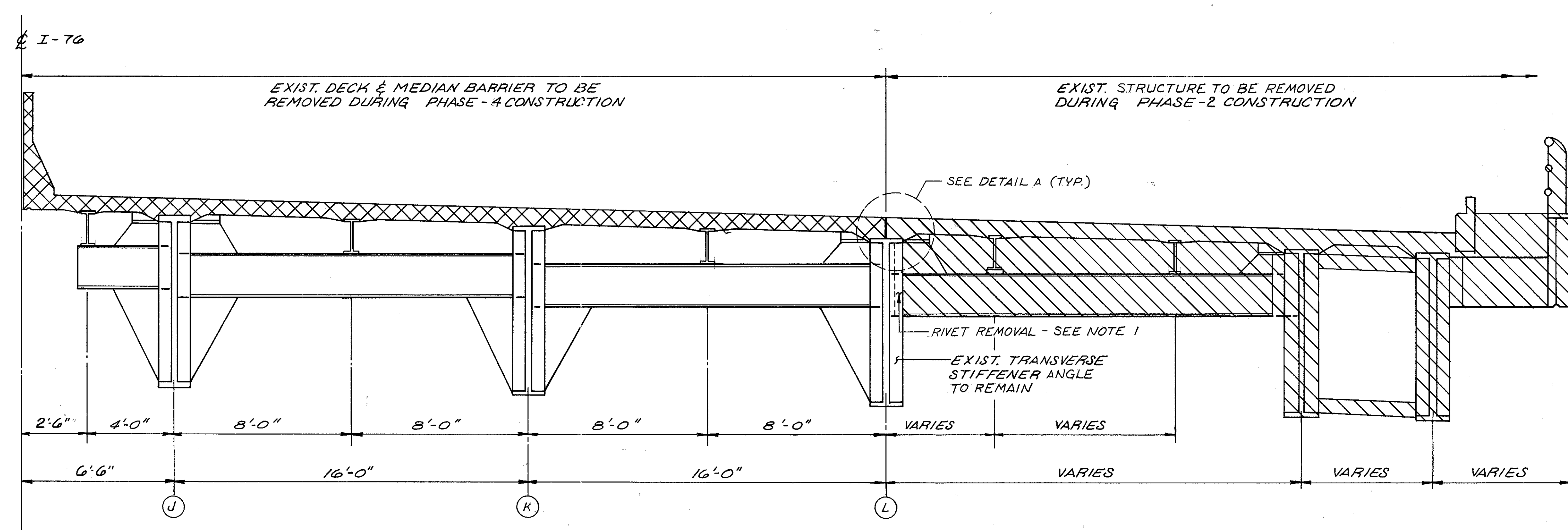
DETAIL A

LEGEND

- INDICATES LIMITS OF EXISTING STRUCTURES TO BE REMOVED DURING PHASE 2, AS PER ITEM 202.
- INDICATES LIMITS OF EXISTING STRUCTURES TO BE REMOVED DURING PHASE 4, AS PER ITEM 202.

NOTES

- ① REMOVE RIVETS IN OUTSTANDING LEG OF INTERMEDIATE STIFFENER ANGLES. THESE RIVETS TO REMAIN AT BEARING STIFFENER ANGLES. AT BEARING STIFFENER ANGLES, REMOVE RIVETS IN PORTION OF FILL PLATE PROTRUDING FROM BEARING STIFFENER ANGLES.



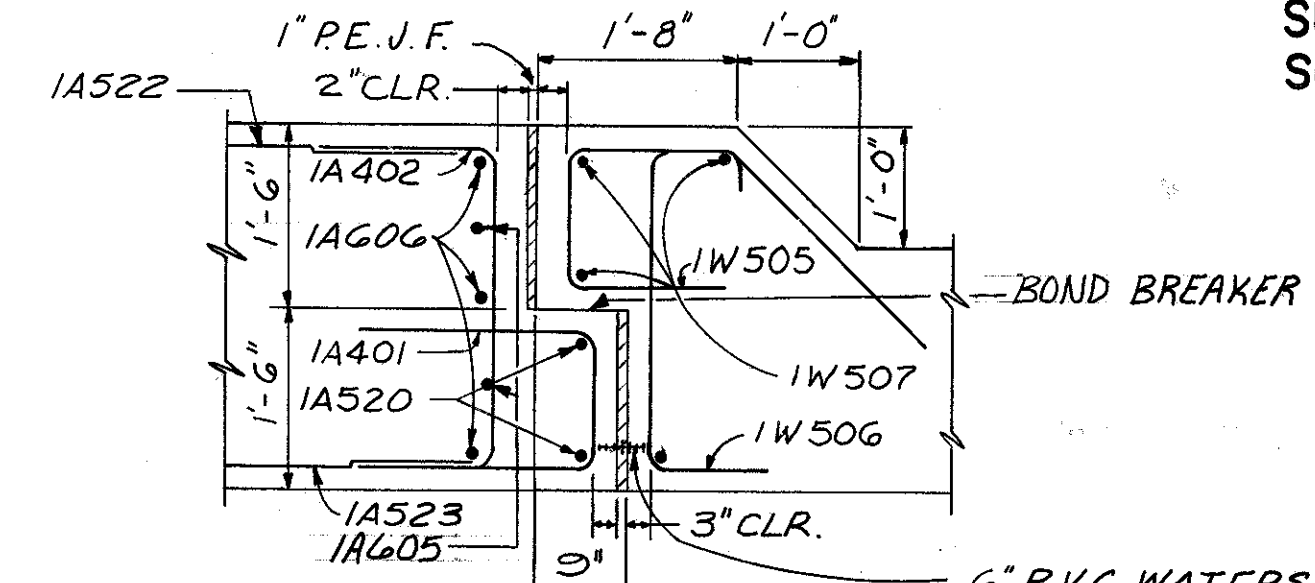
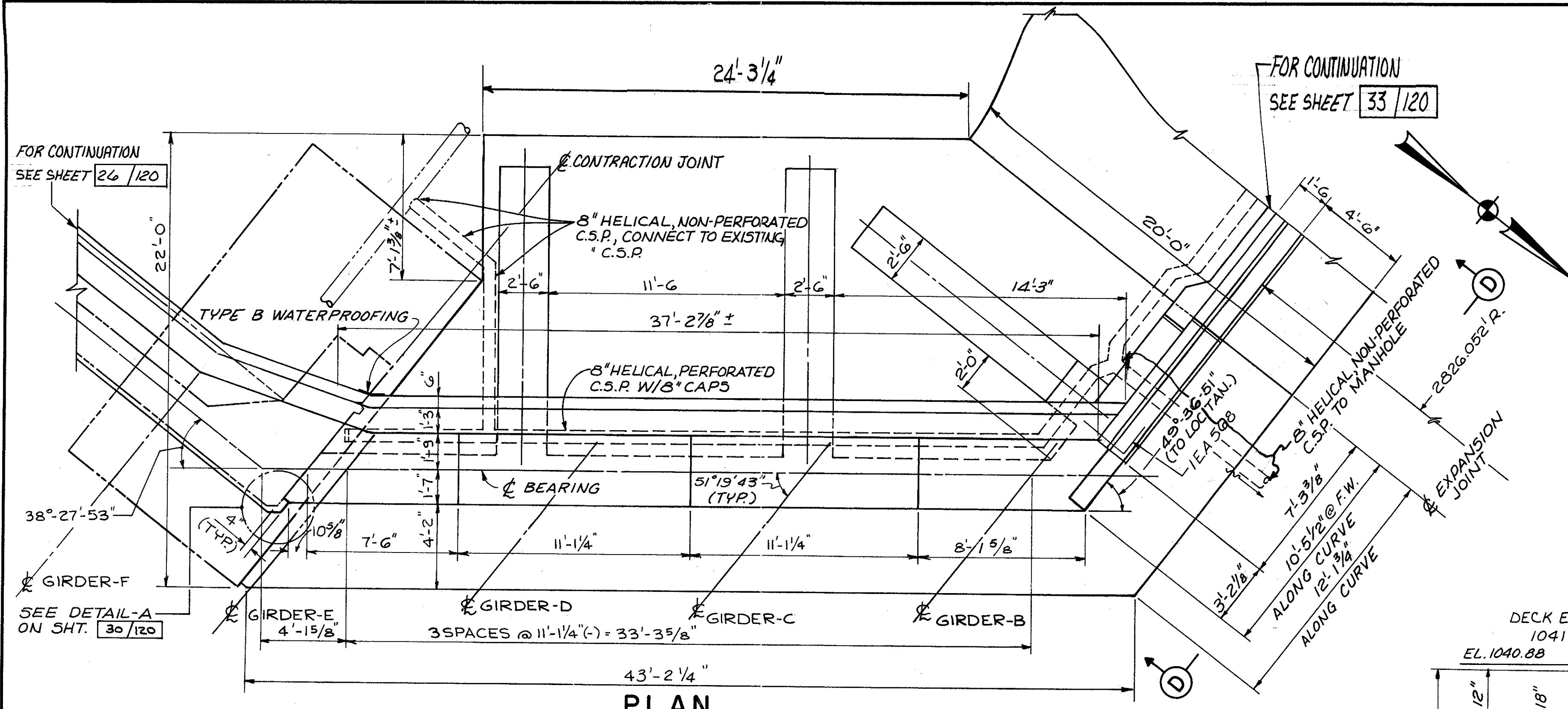
EXISTING TRANSVERSE SECTION (EAST BOUND AT APPROXIMATE STATION 608+75)

McCOY ASSOCIATES INC. 24/120					
CONSULTING ENGINEERS AKRON, OHIO					
STRUCTURAL REMOVAL & REPAIR DETAILS					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T. A. B.	DAK MRA		M. A. M.	J. B. H.	3-30-89
REVISED					

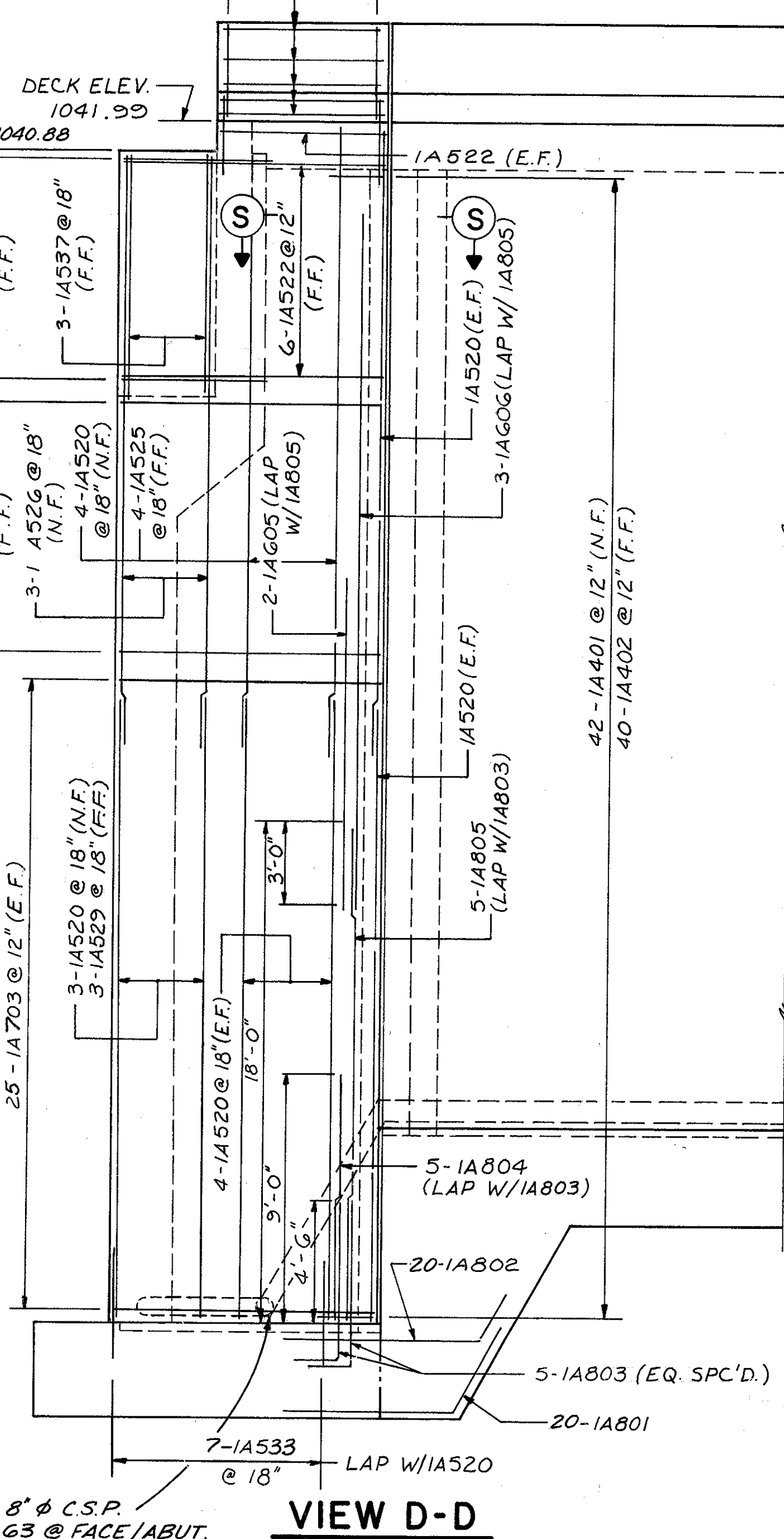
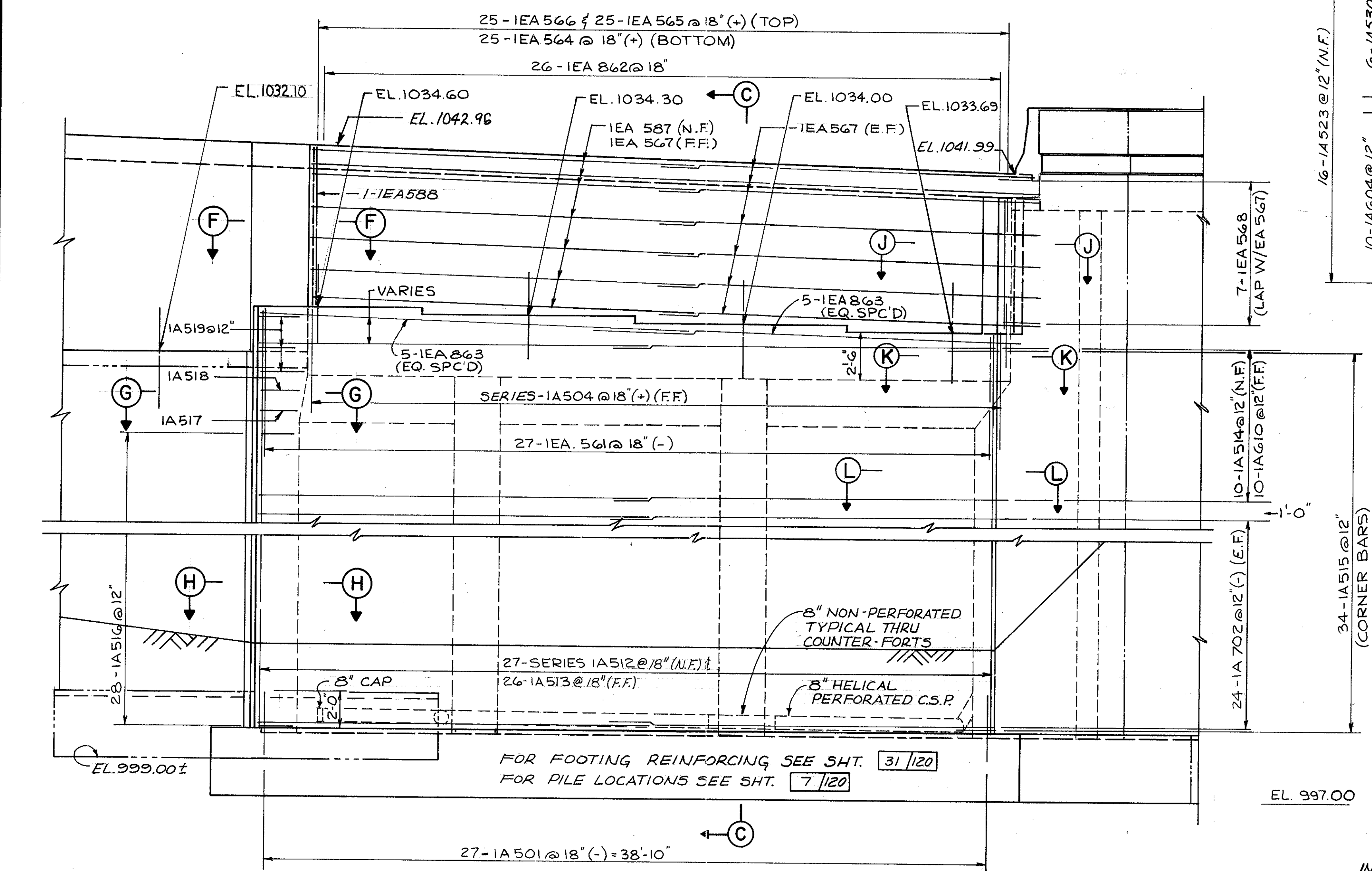
FHWA REGION	STATE	PROJECT
5	OHIO	

965
1214

SUMMIT COUNTY
SUM 76-11.57



SECTION S-S
6\"/>



- NOTES:**
- TYPICAL BAR LAPS, UNLESS OTHERWISE SHOWN
 #11=81"; TOP BARS = 113"
 #10=66"; TOP BARS = 92"
 #9=51"; TOP BARS = 72"
 #8=41"; TOP BARS = 57"
 #7=31"; TOP BARS = 43"
 #6=24"; TOP BARS = 34"
 #5=20"; TOP BARS = 29"
 - ABBREVIATIONS
 F.W. = FACE OF WALL
 N.F. = NEAR FACE
 F.F. = FAR FACE
 E.F. = EACH FACE
 - ELEVATIONS FOR PAVEMENT BREAK LINES ARE GIVEN AT THE FACE OF THE BACKWALL & THE CENTERLINE OF THE PAVEMENT BREAK.
 - SEE SHEET 29/120 FOR ADDITIONAL DETAILS.
 - SEE SHEET 31/120 FOR FOOTING DETAILS.
 - ALL CHANGES IN DIRECTION IN THE 8" HELICAL PERFORATED C.S.P. SHALL BE MADE USING STANDARD FACTORY MADE BENDS.

ELEVATION

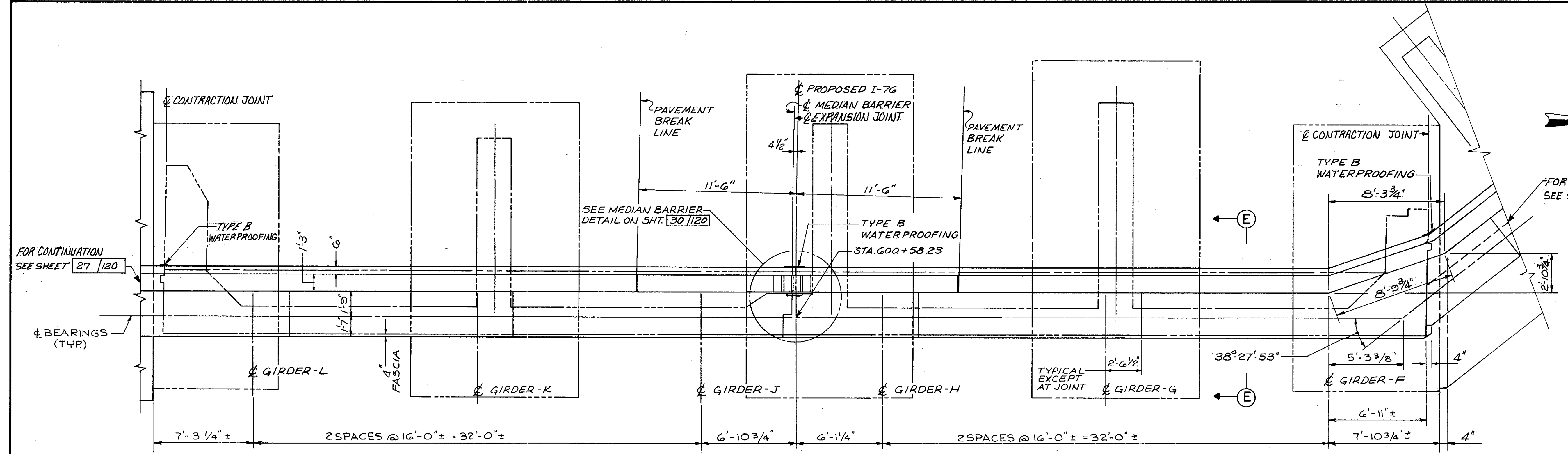
VIEW D-D

McCOY ASSOCIATES INC. 25/120
 CONSULTING ENGINEERS
 AKRON, OHIO

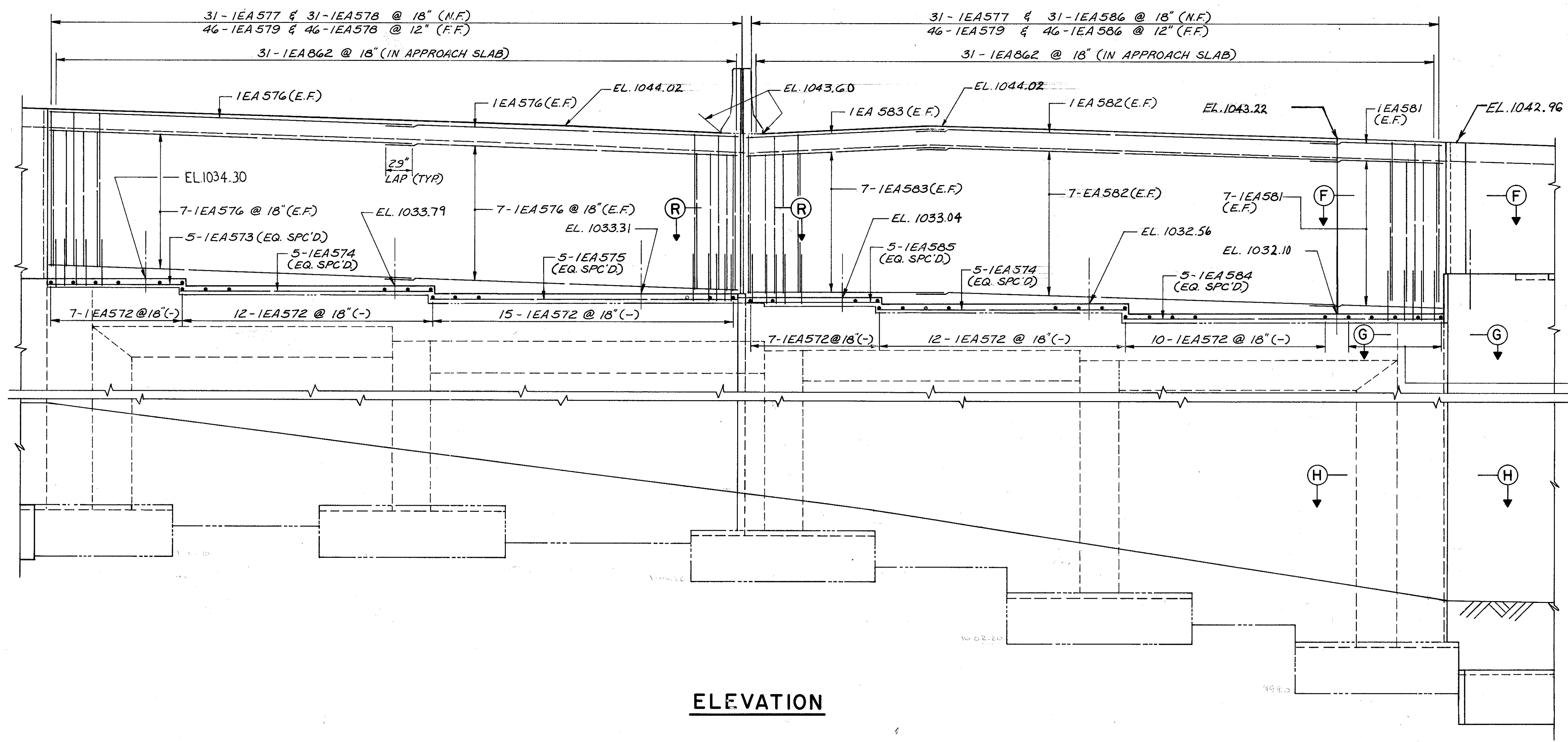
WEST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK M.R.A.		RG5	JBH	3-31-89	



PLAN



ELEVATION

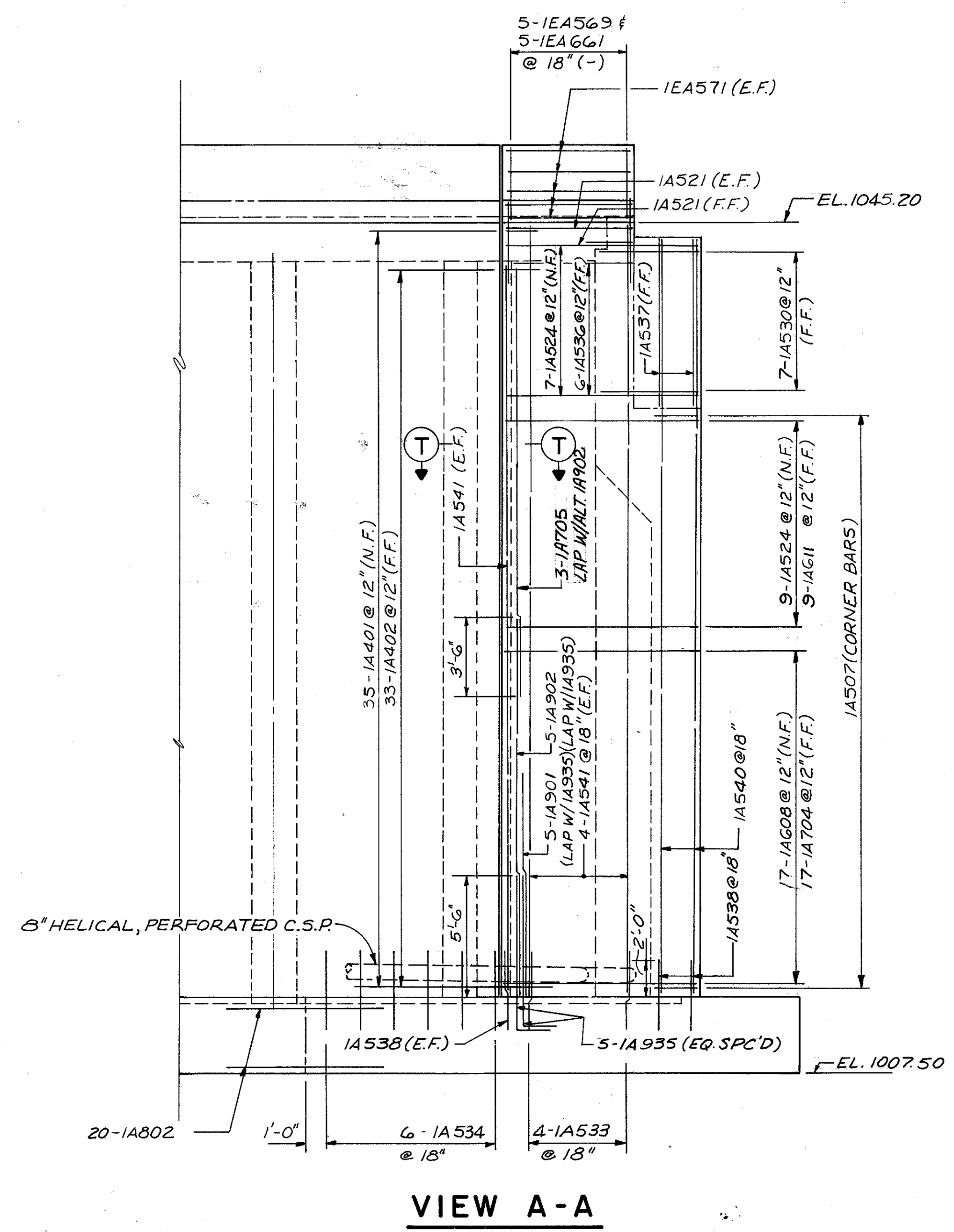
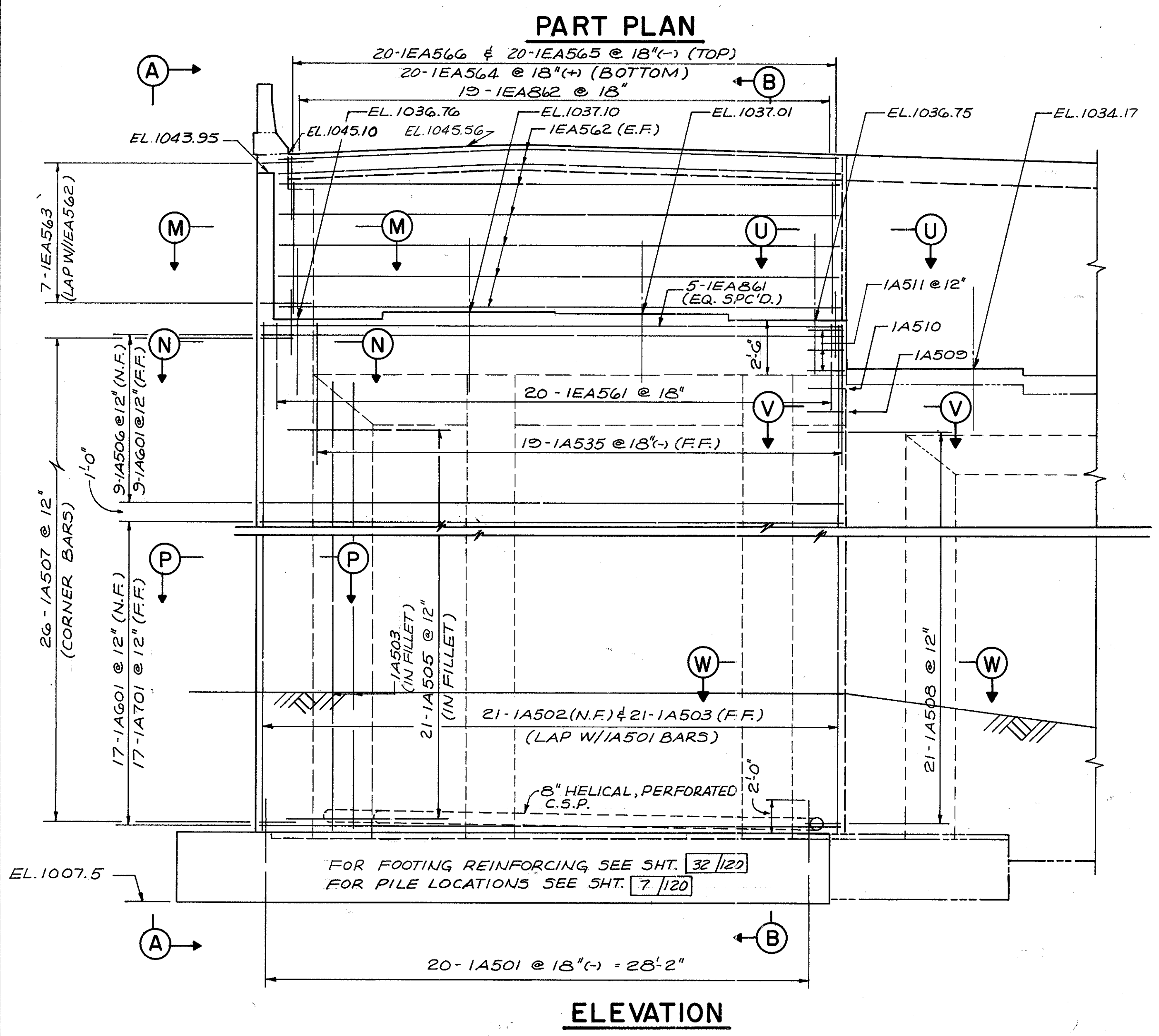
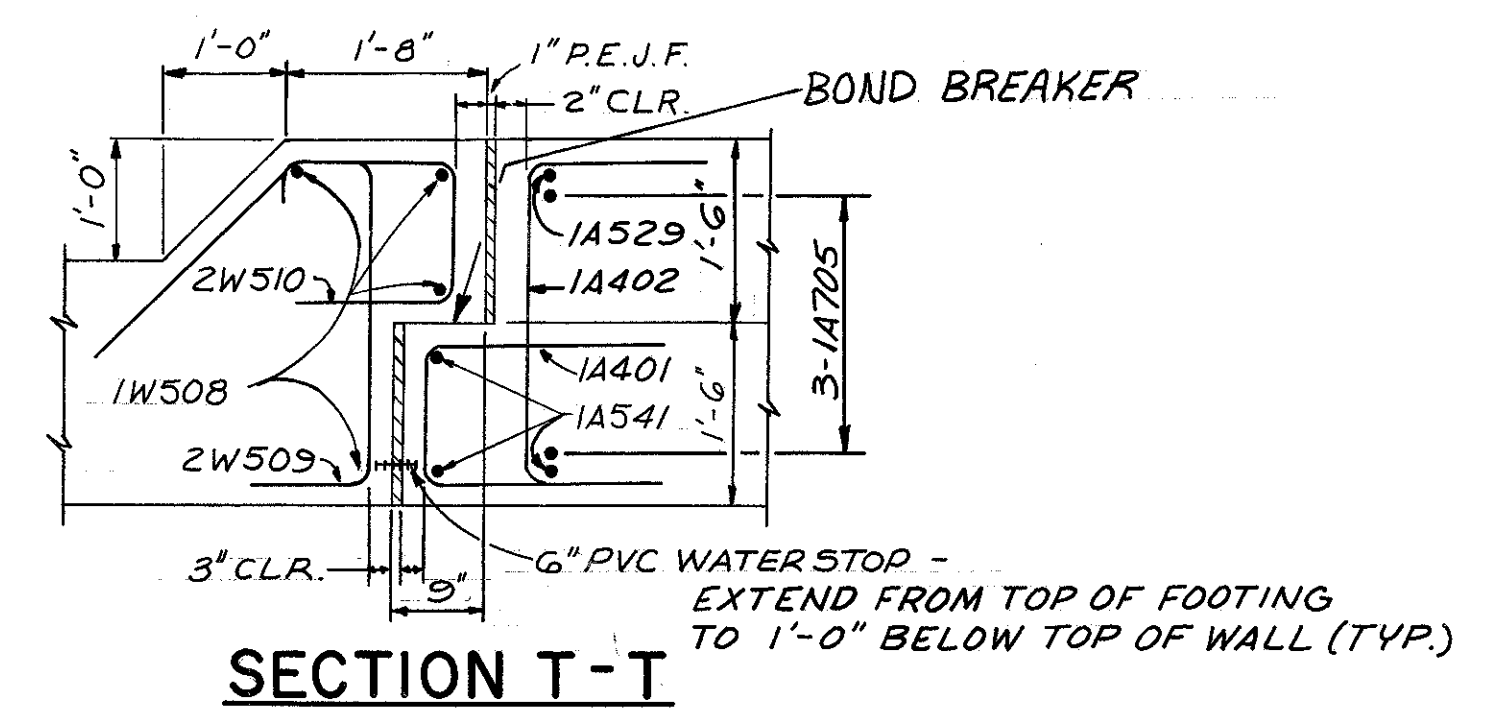
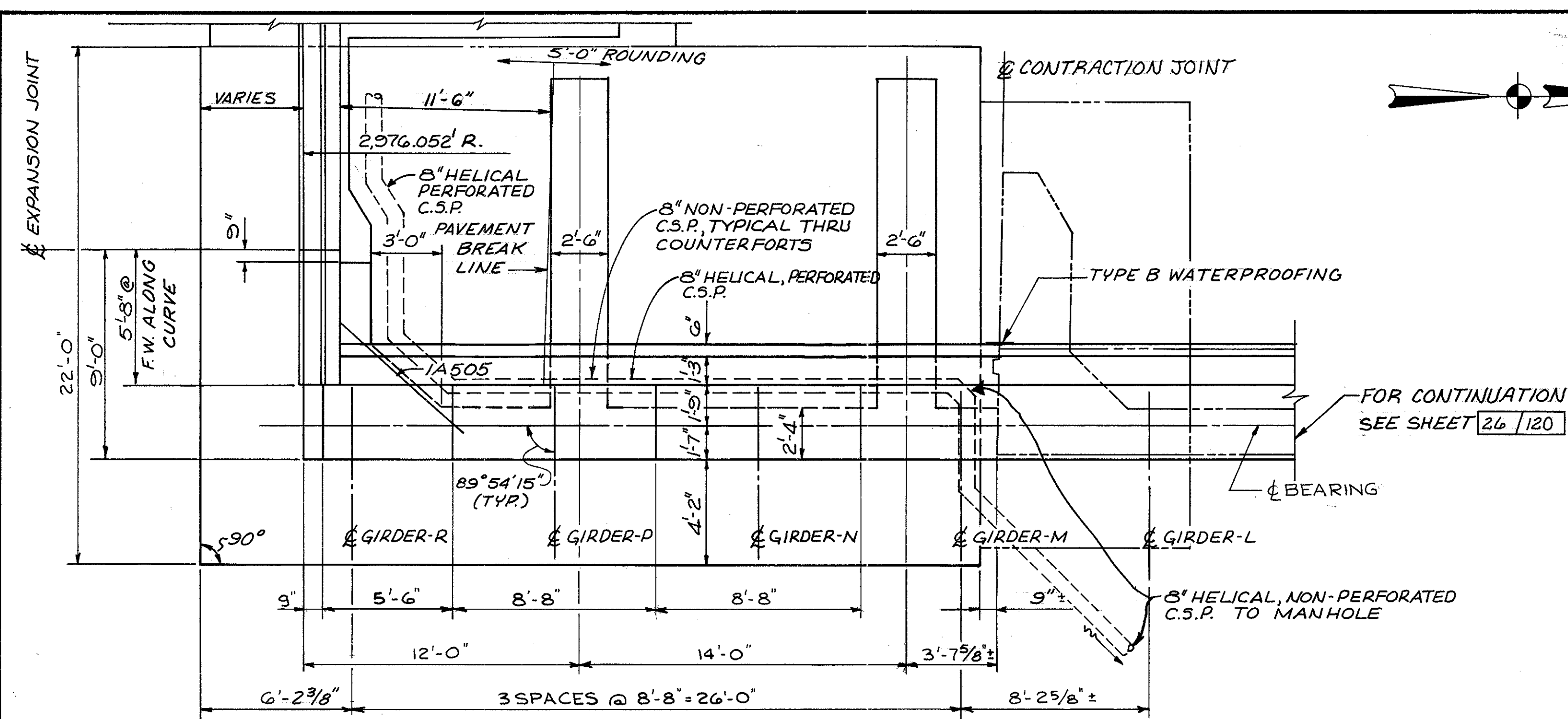
- NOTES:**
- ① SEE SHEET 30/120 FOR ADDITIONAL DETAILS.
 - ② SEE NOTES 1-3, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 26/120
CONSULTING ENGINEERS
AKRON, OHIO

WEST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	J.D.P.		RGS	JBH	3-31-89	



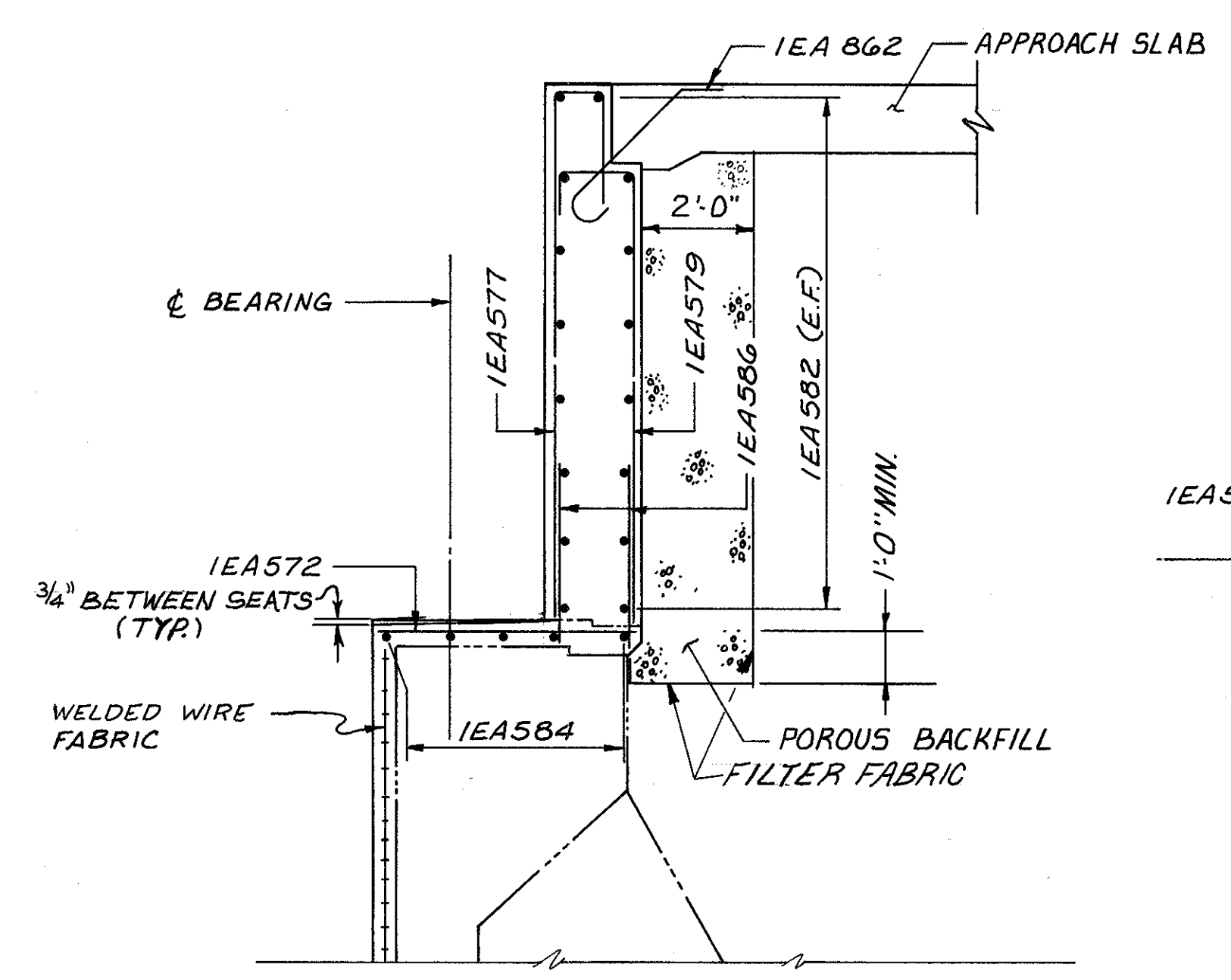
- NOTES:**
- SEE SHEET 29/120 FOR ADDITIONAL DETAILS.
 - SEE SHEET 32/120 FOR FOOTING DETAILS.
 - SEE NOTES 1-3, SHEET 25/120

McCOY ASSOCIATES INC. 27/120
CONSULTING ENGINEERS
AKRON, OHIO

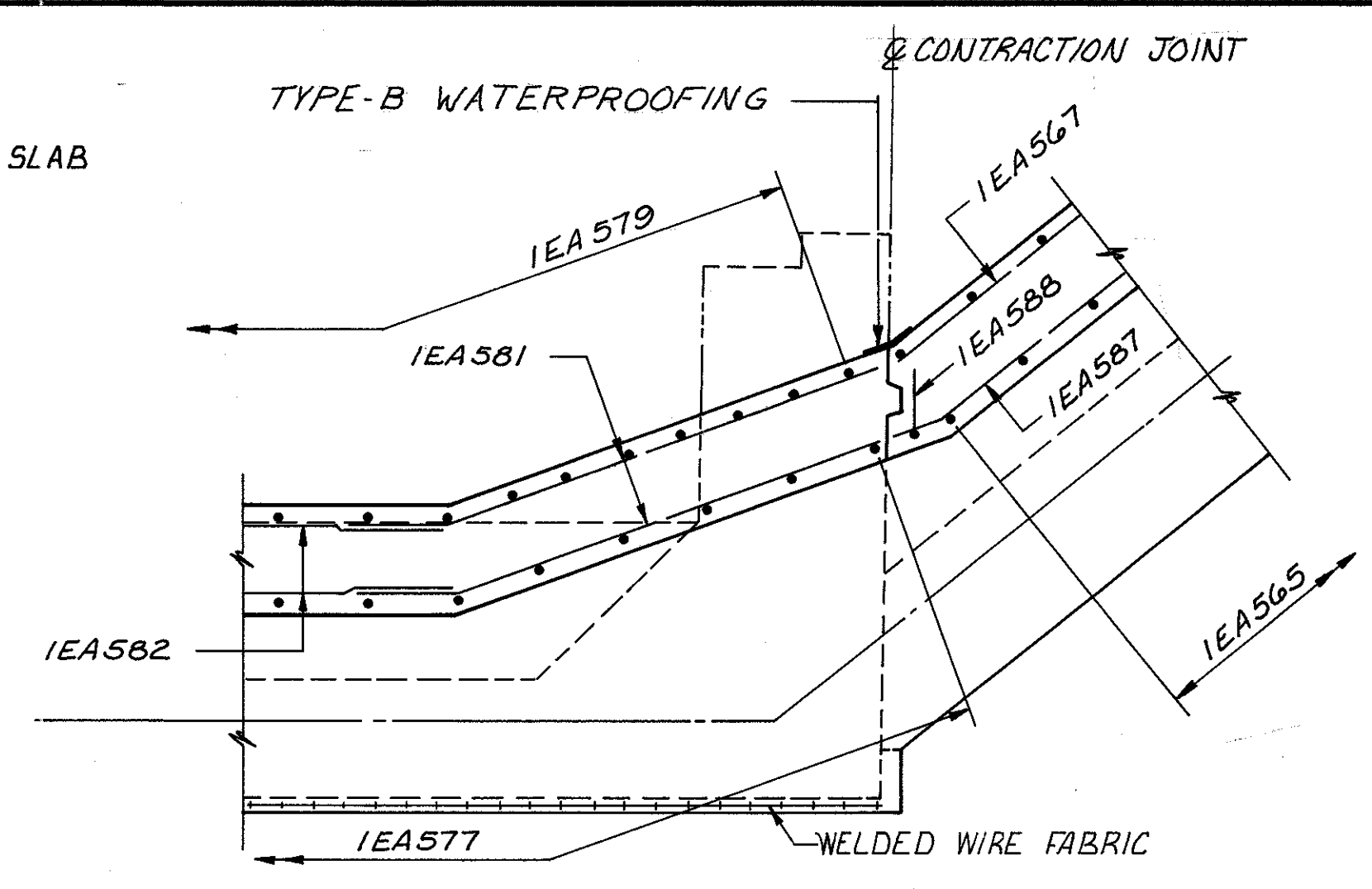
WEST ABUTMENT DETAILS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK JOP	M.R.A.	RGS	JBH	3-31-89	

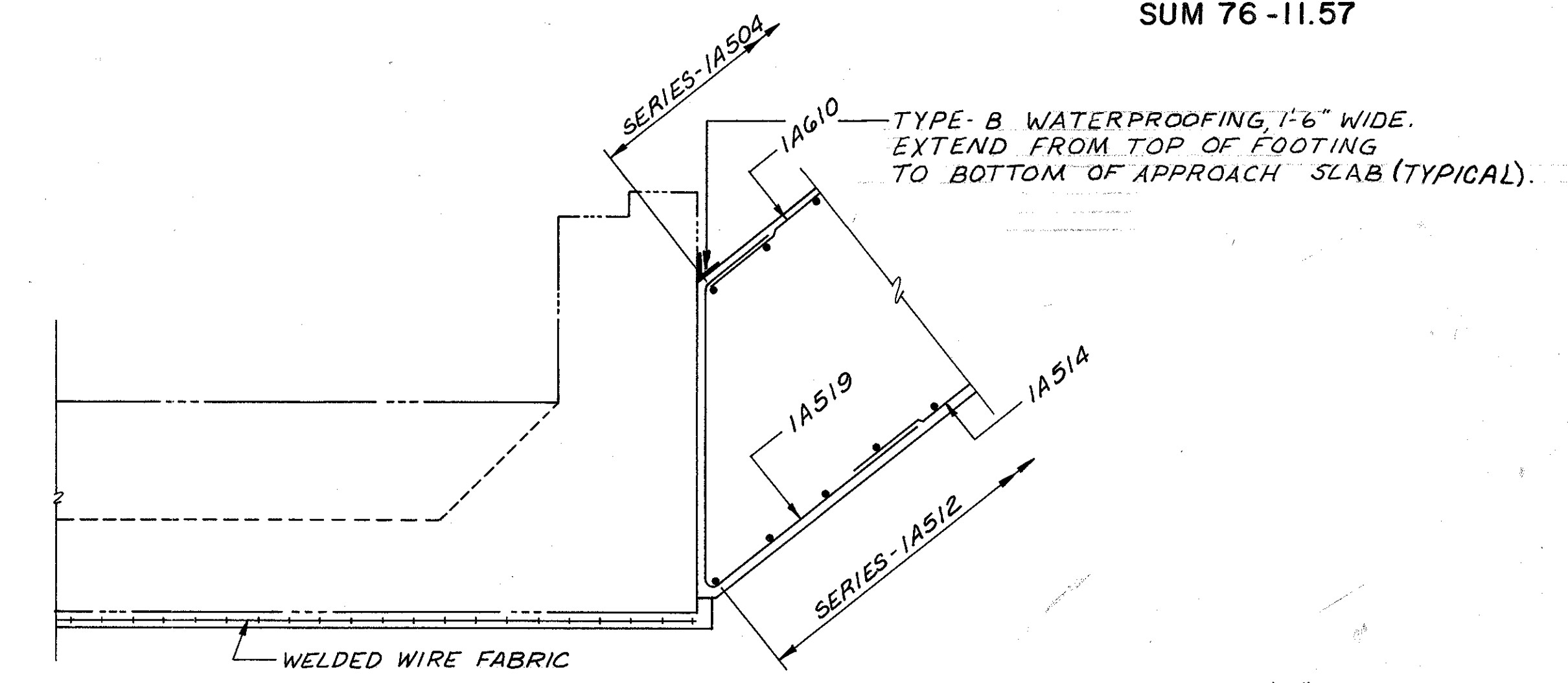
SUMMIT COUNTY
SUM 76-11.57



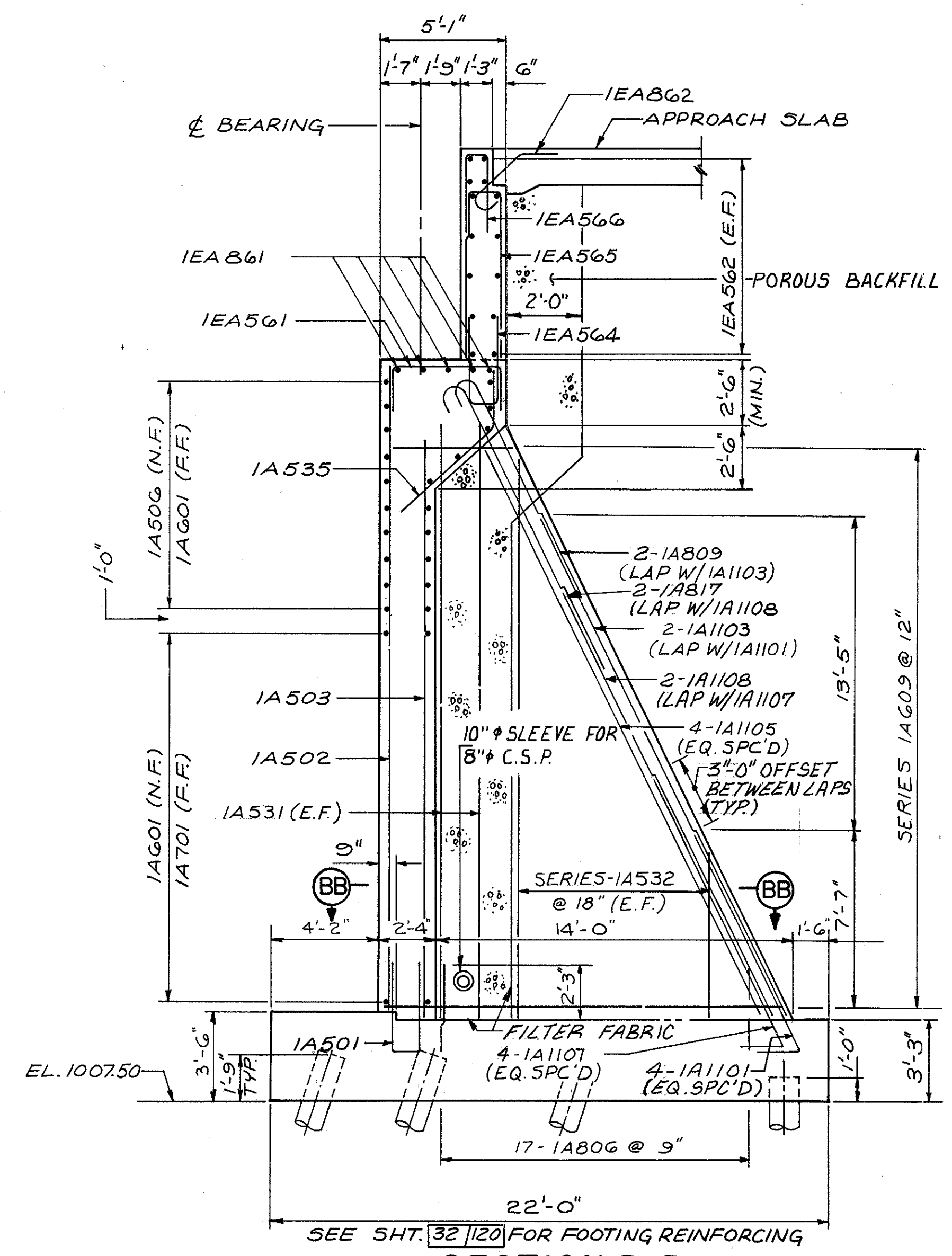
SECTION E-E



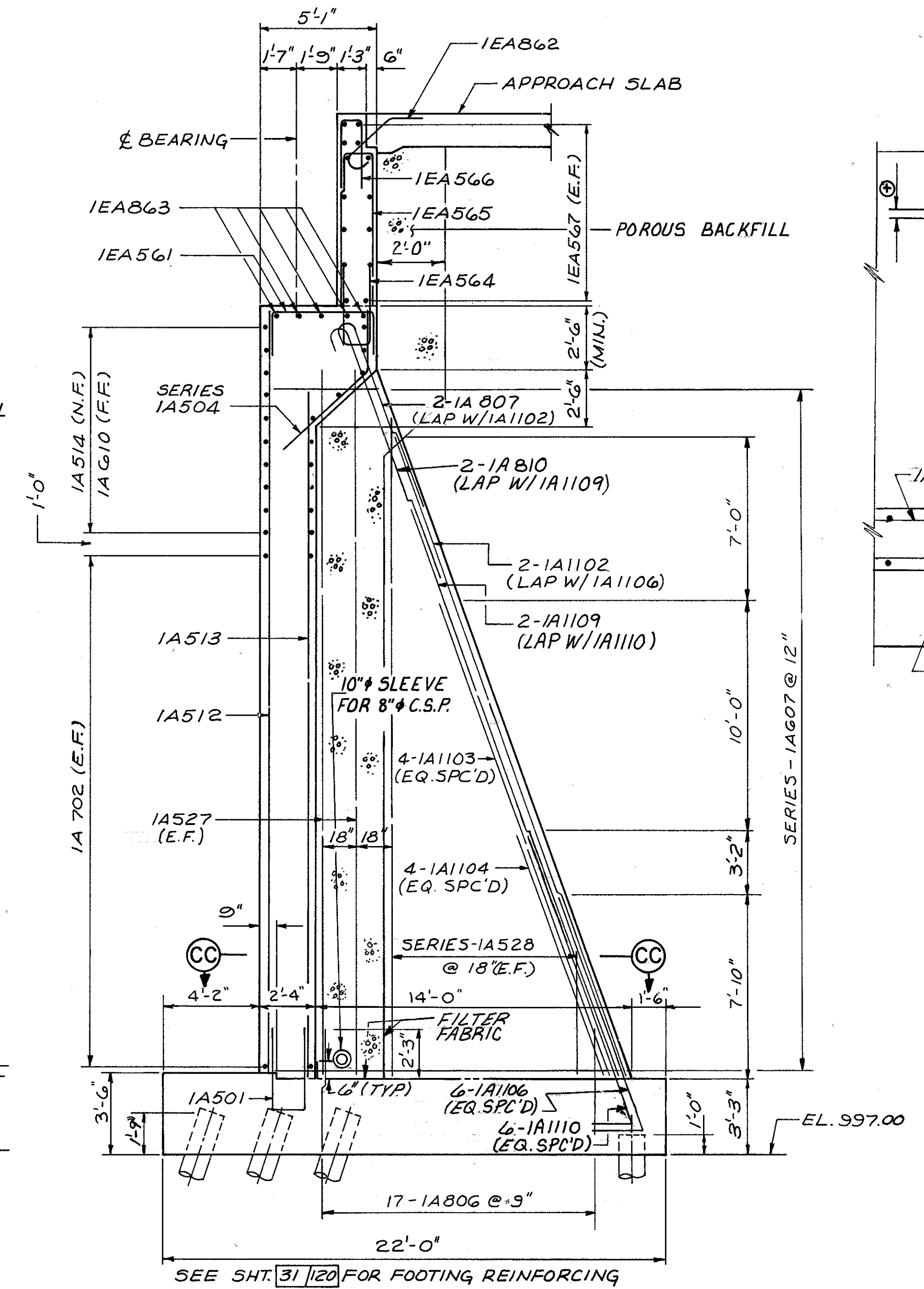
SECTION F-F



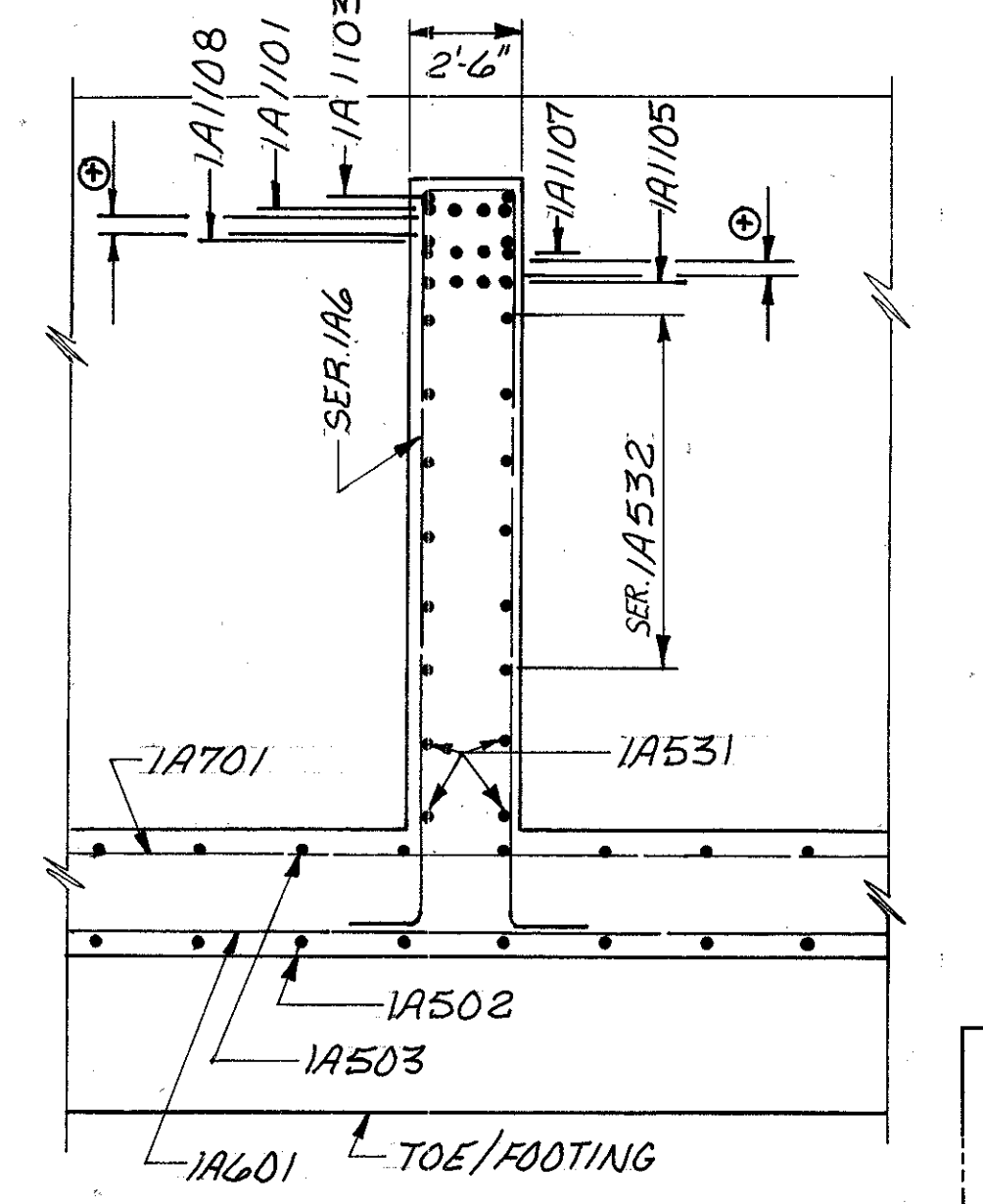
SECTION G-G



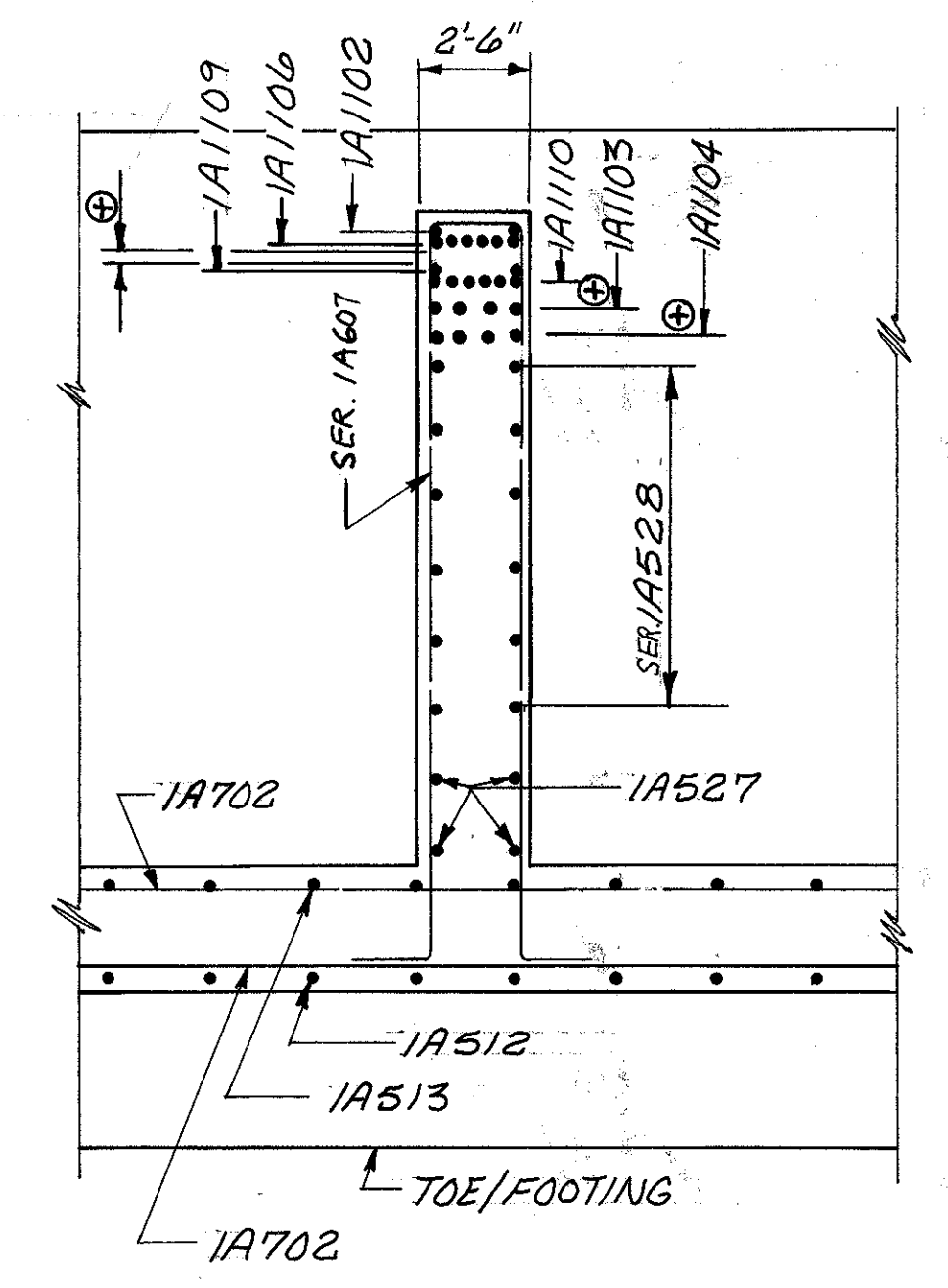
SECTION B-B



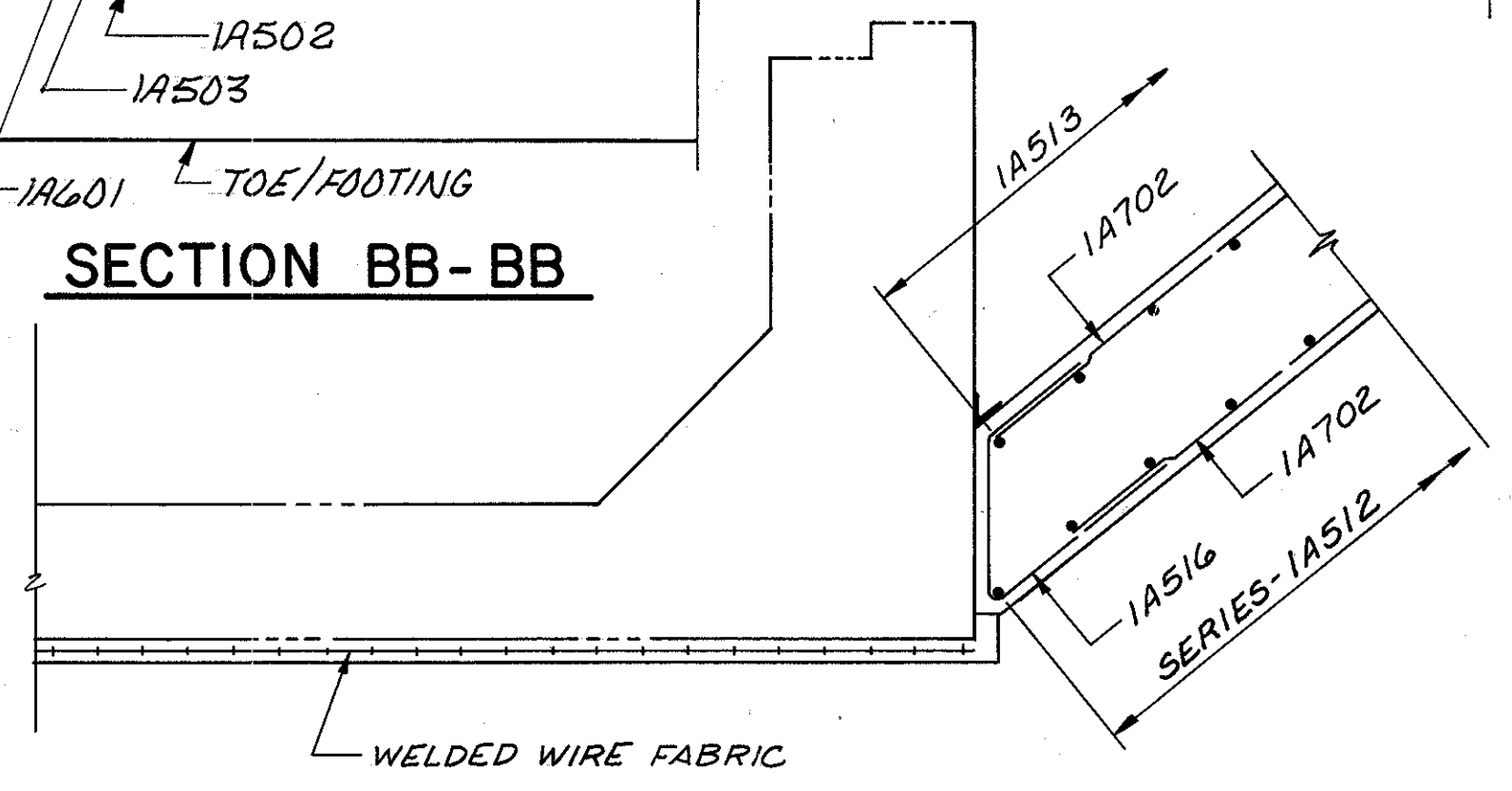
SECTION C-C



SECTION BB-BB



SECTION CC-CC



SECTION H-H

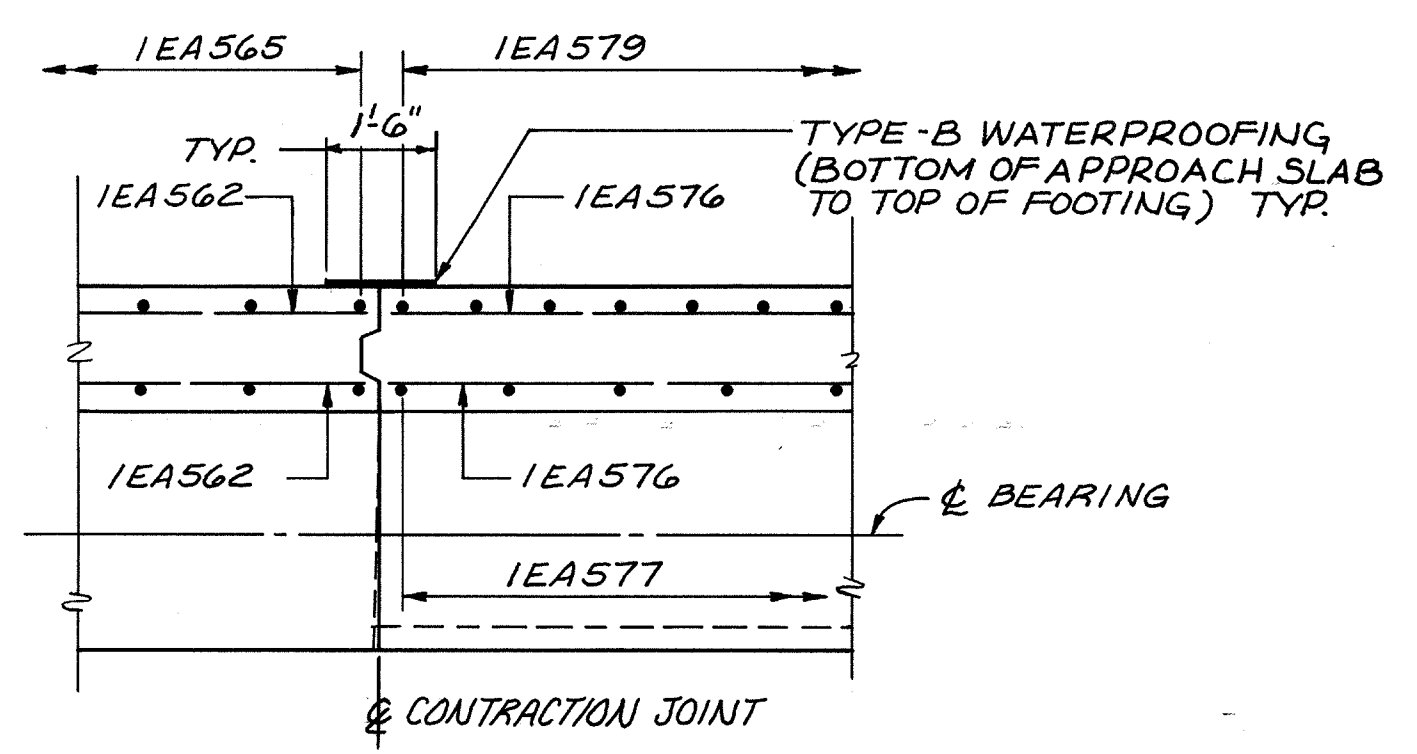
- NOTES:**
- SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.
 - ⊕ - INDICATES 2 1/2" (MIN.) CLEAR BETWEEN ROWS OF BARS.

McCOY ASSOCIATES INC. 28/120
CONSULTING ENGINEERS
AKRON, OHIO

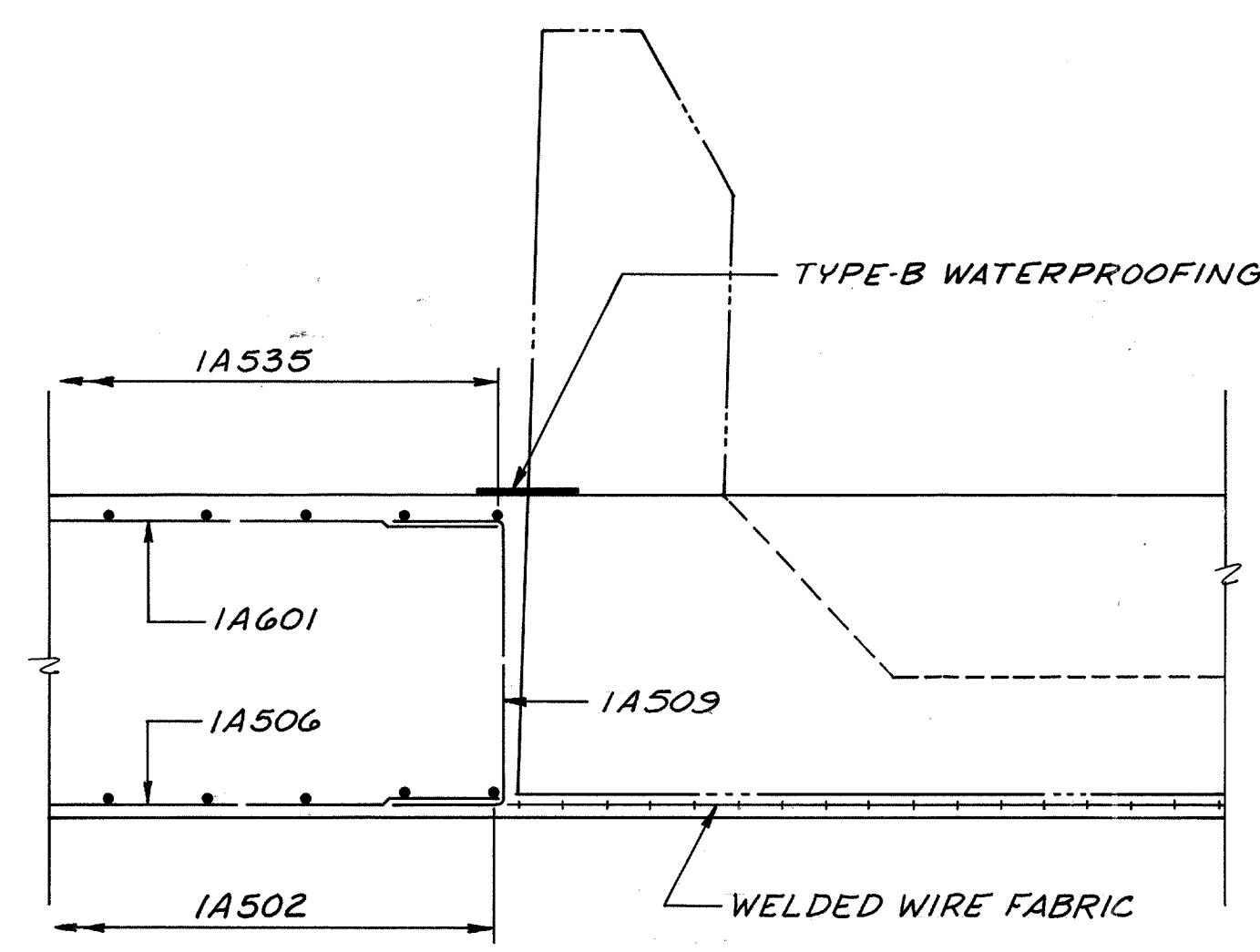
WEST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

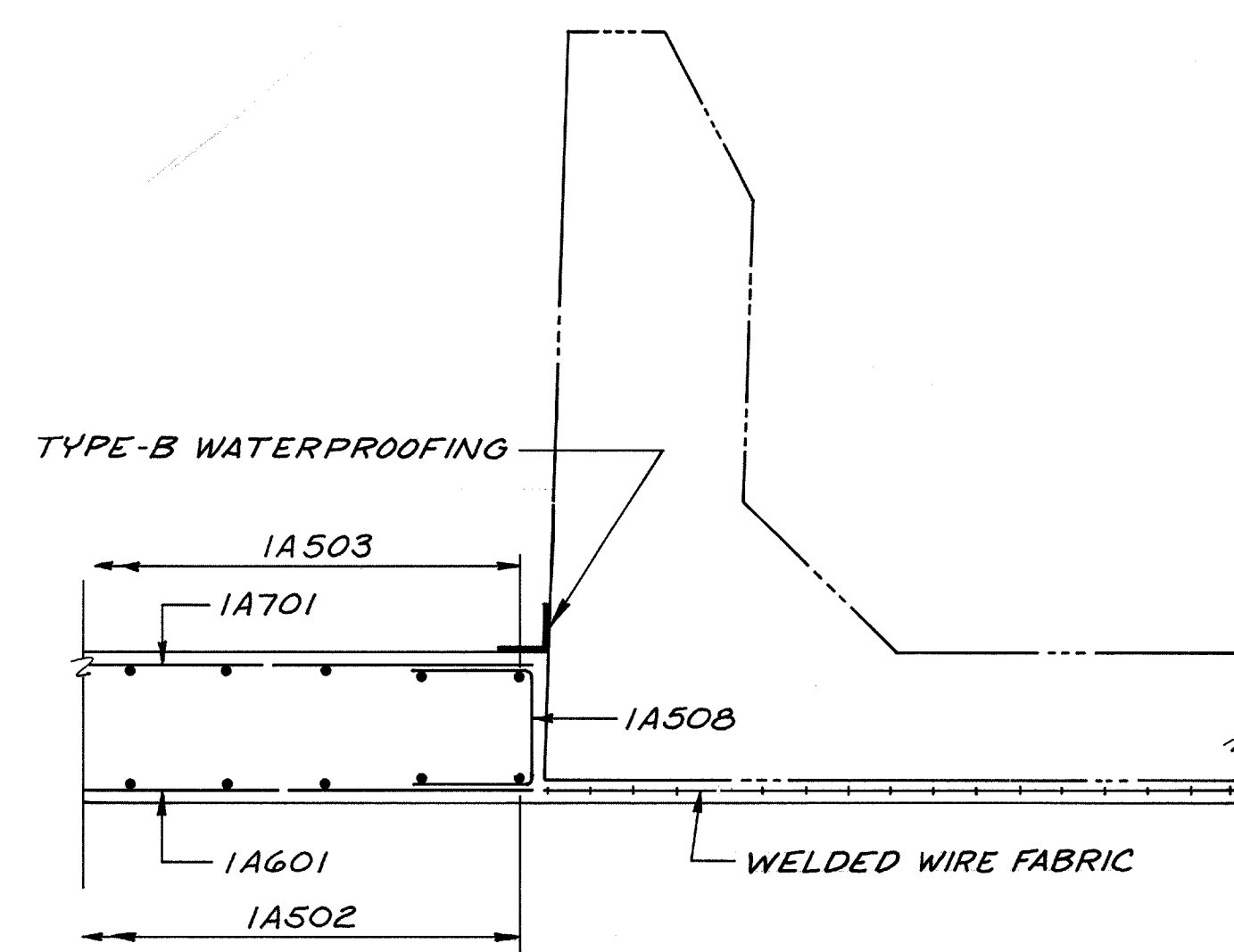
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	DAK		RGS	JBH	3-31-89	



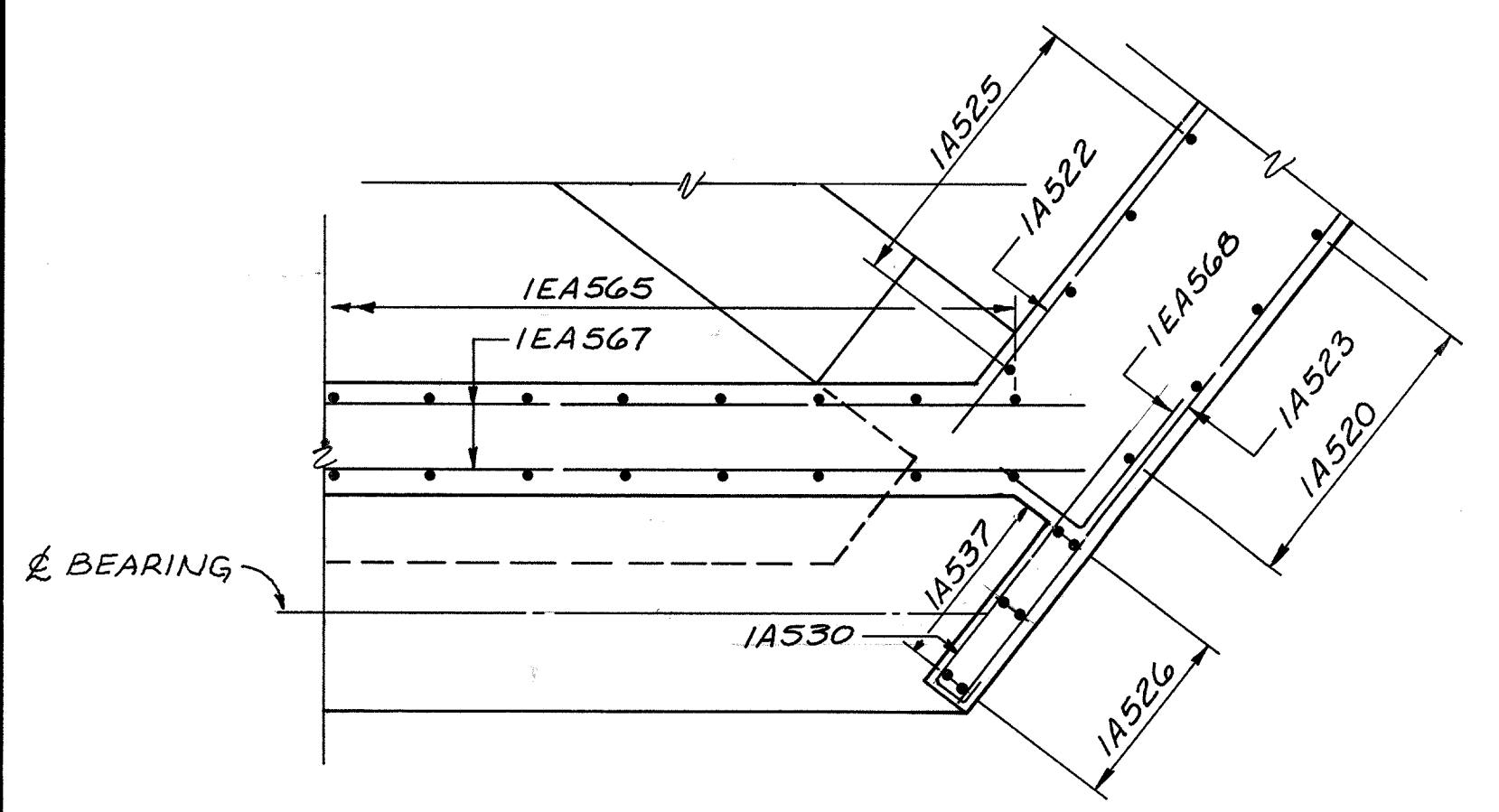
SECTION U-U



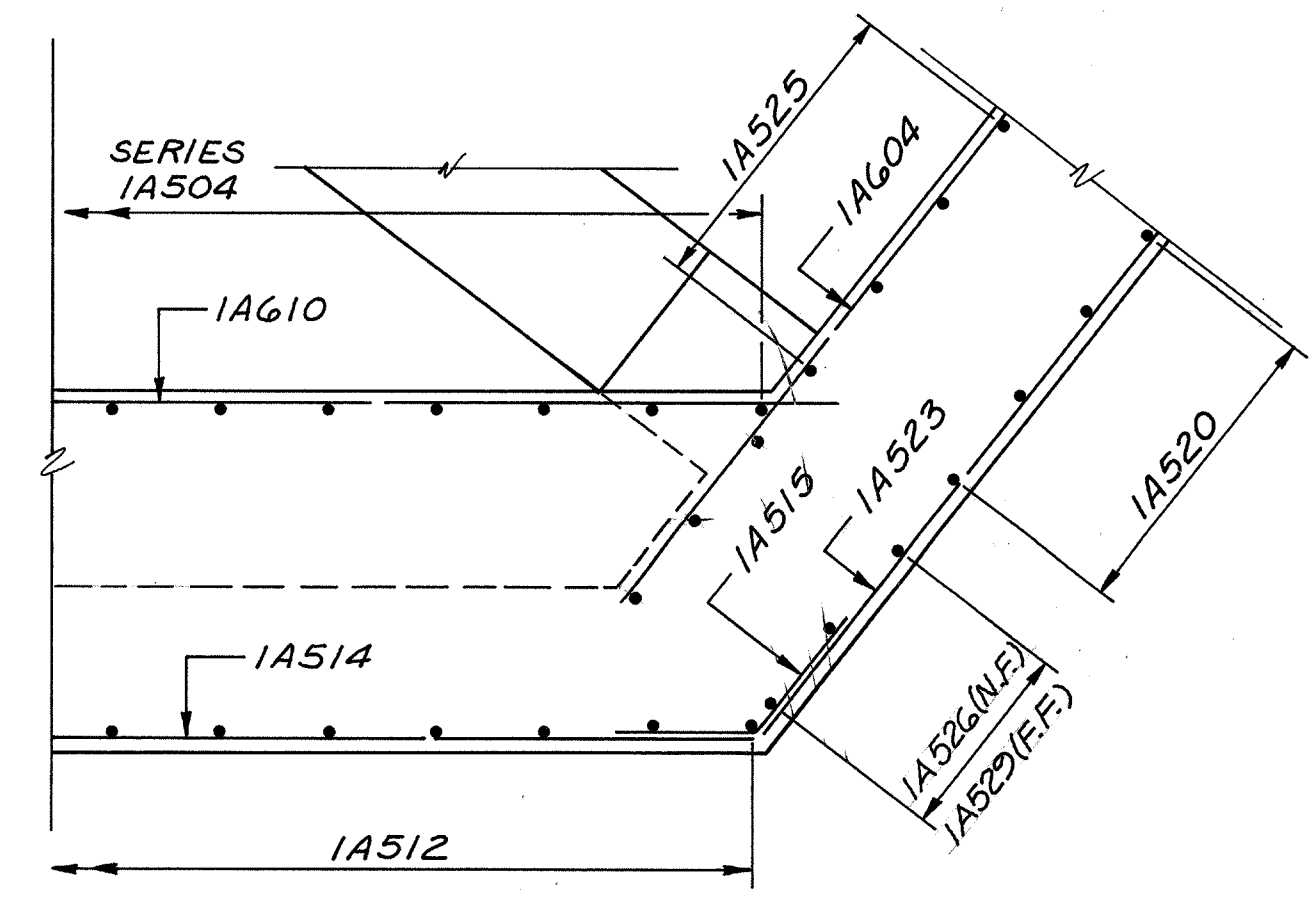
SECTION V-V



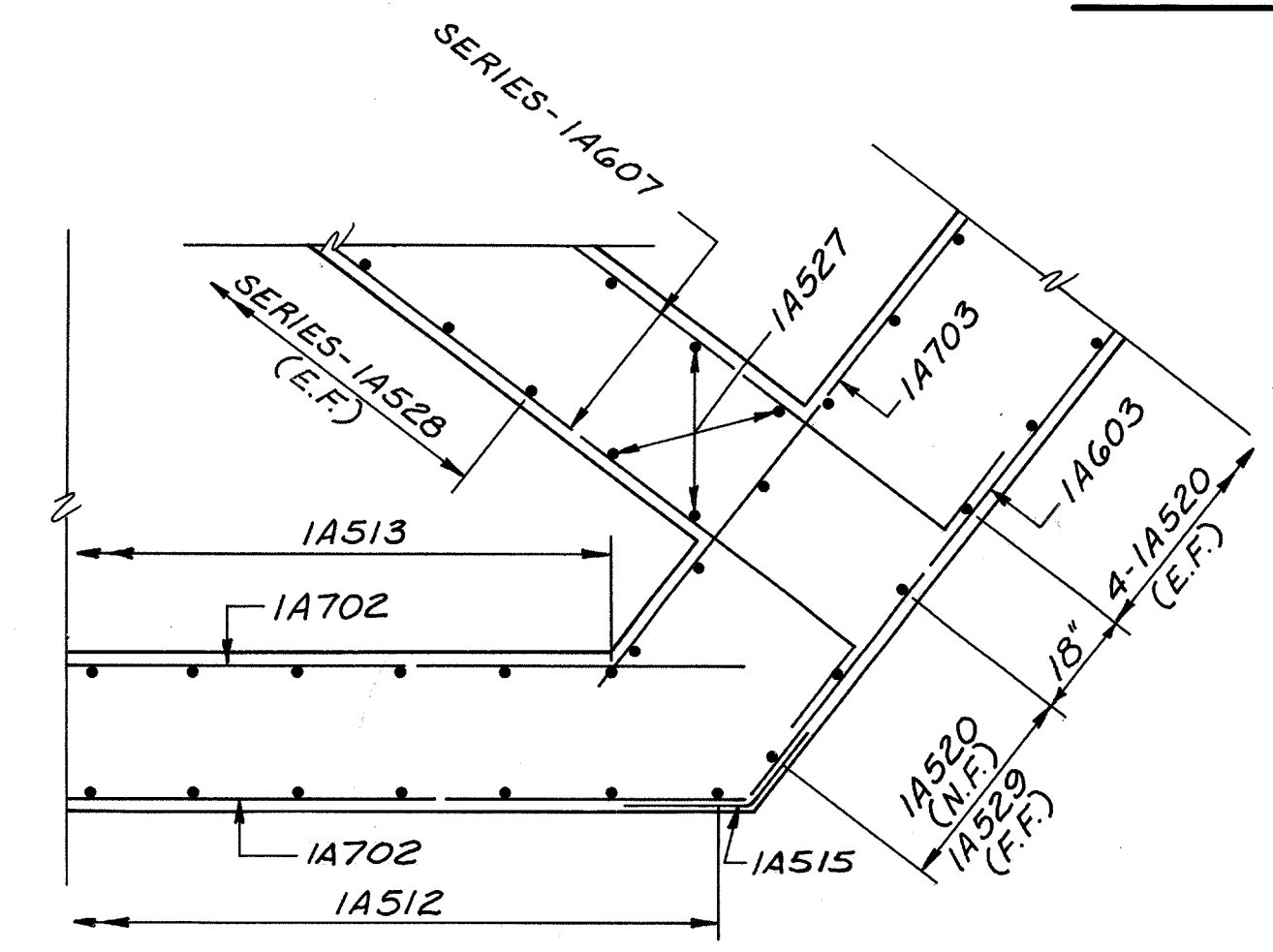
SECTION W-W



SECTION J-J

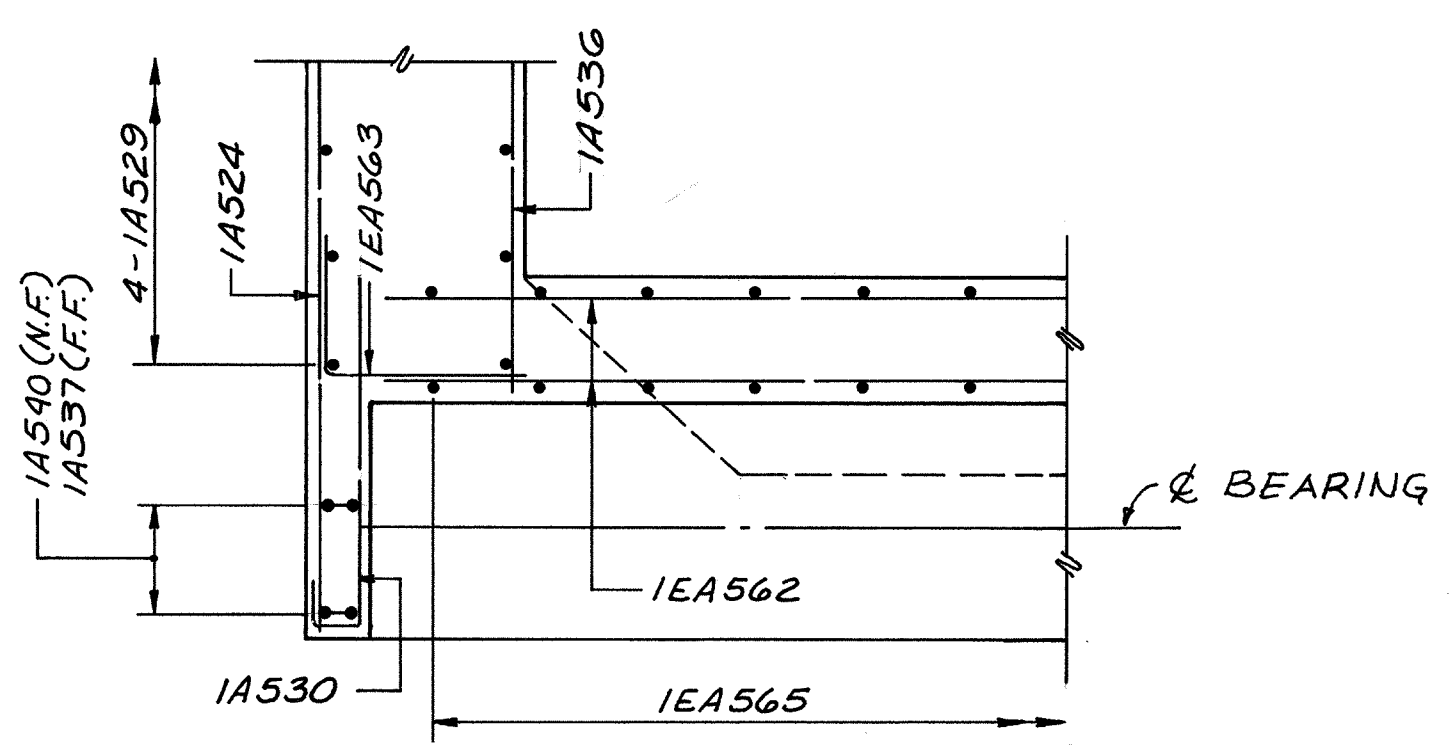


SECTION K-K

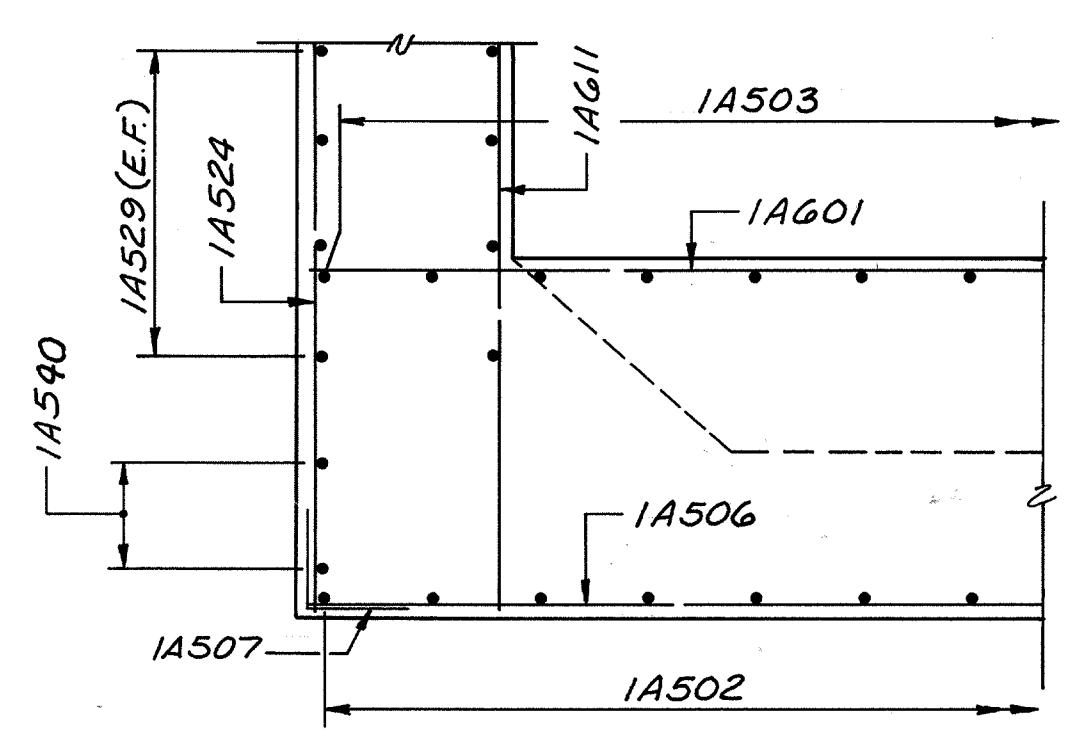


SECTION L-L

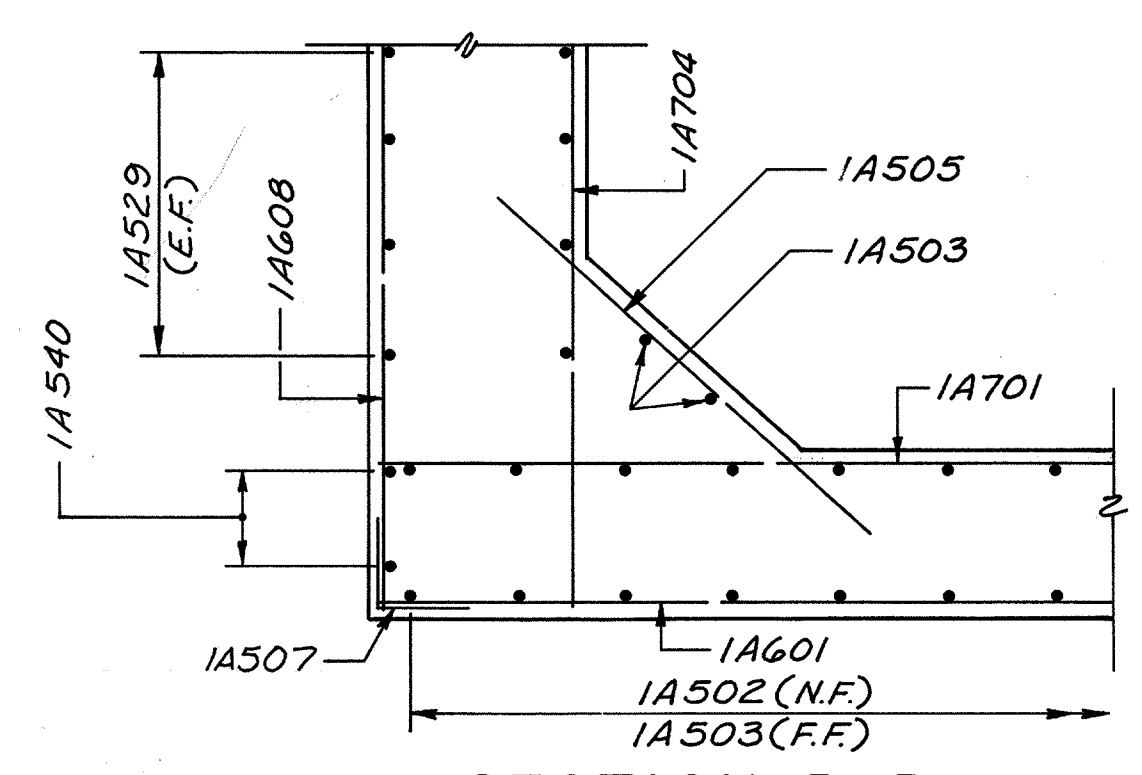
NOTES:
① SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.



SECTION M-M



SECTION N-N



SECTION P-P

McCOY ASSOCIATES INC. 29/120
CONSULTING ENGINEERS
AKRON, OHIO

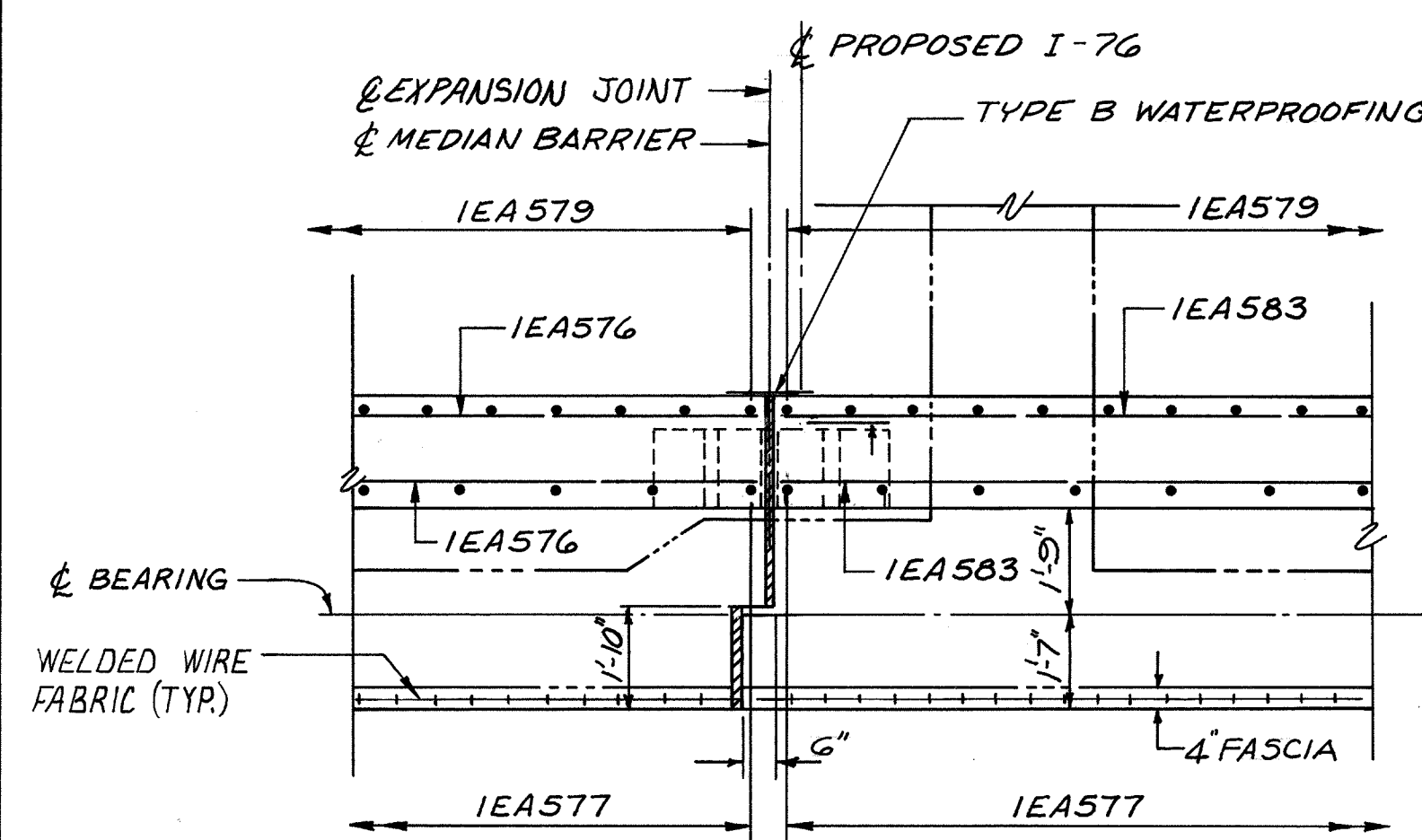
WEST ABUTMENT DETAILS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	J.D.R.		RGS	JBH	3-31-89	

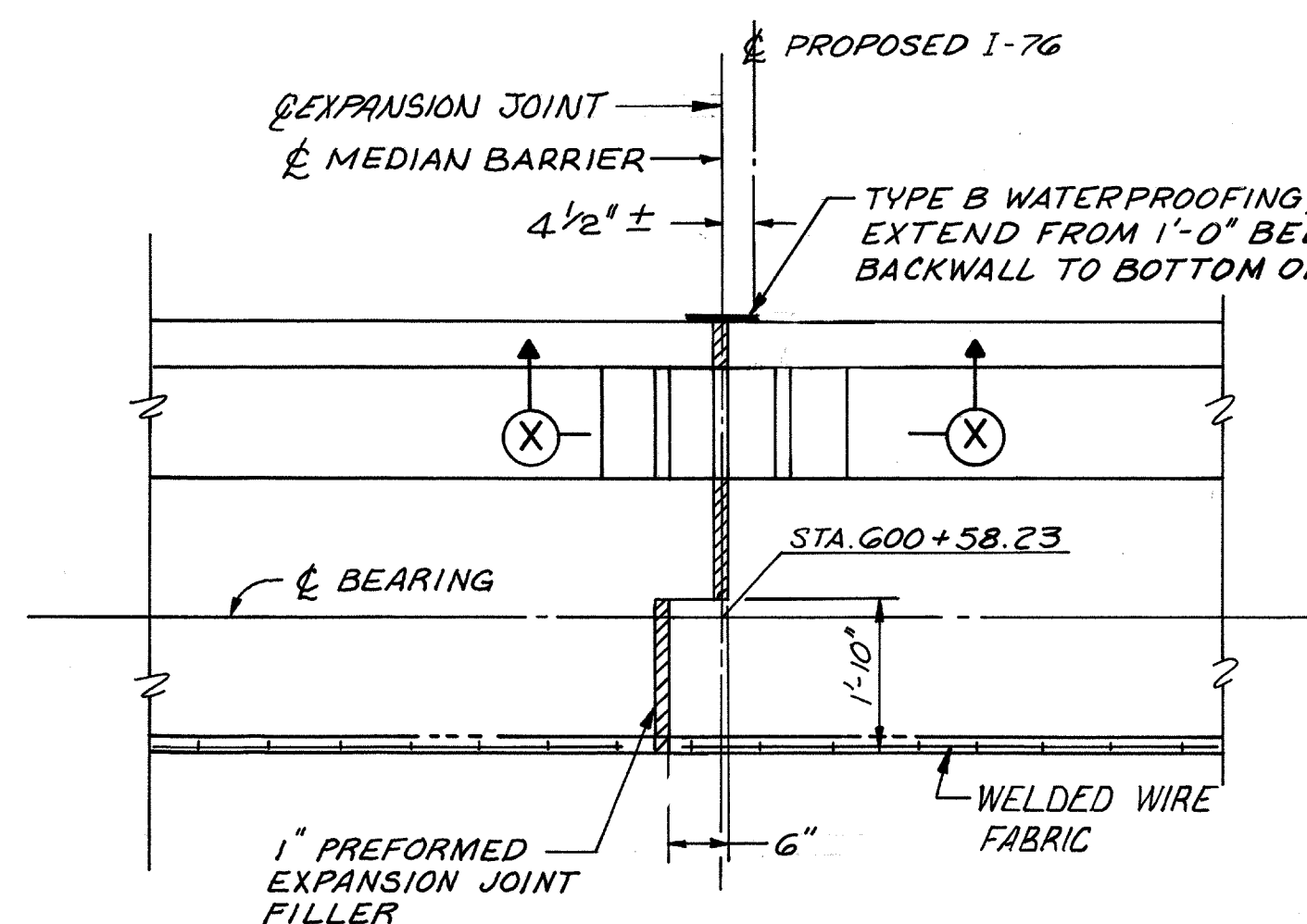
FHWA REGION	STATE	PROJECT
5	OHIO	

97C
1214

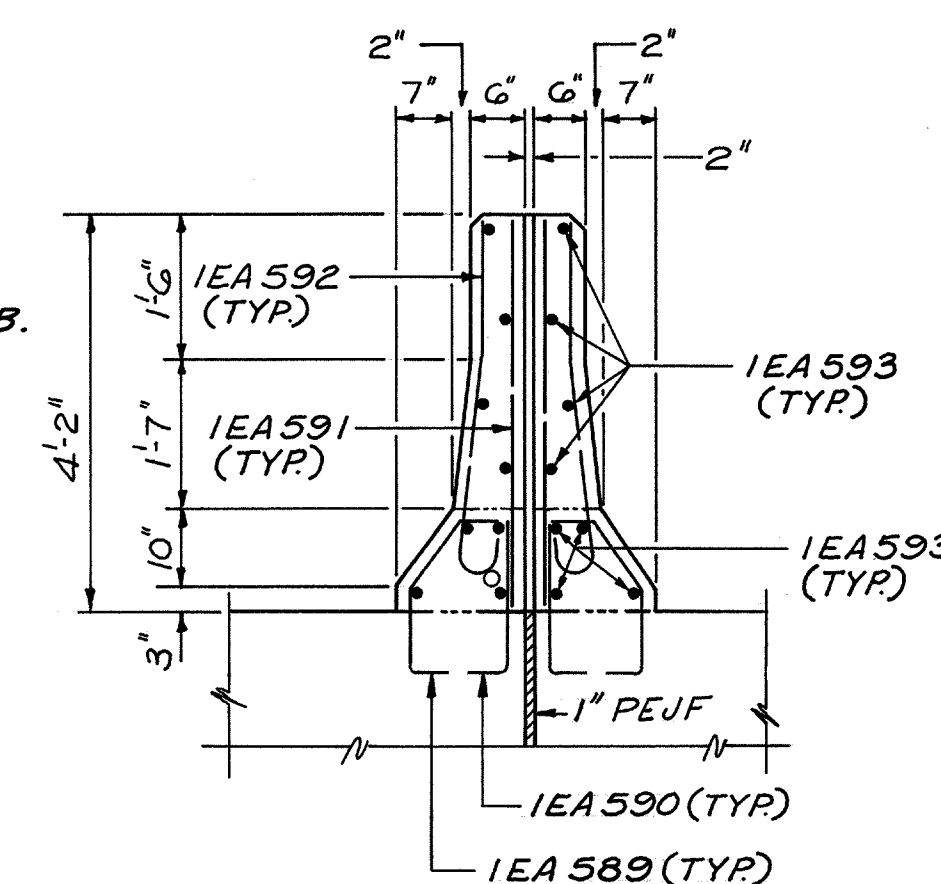
SUMMIT COUNTY
SUM 76-11.57



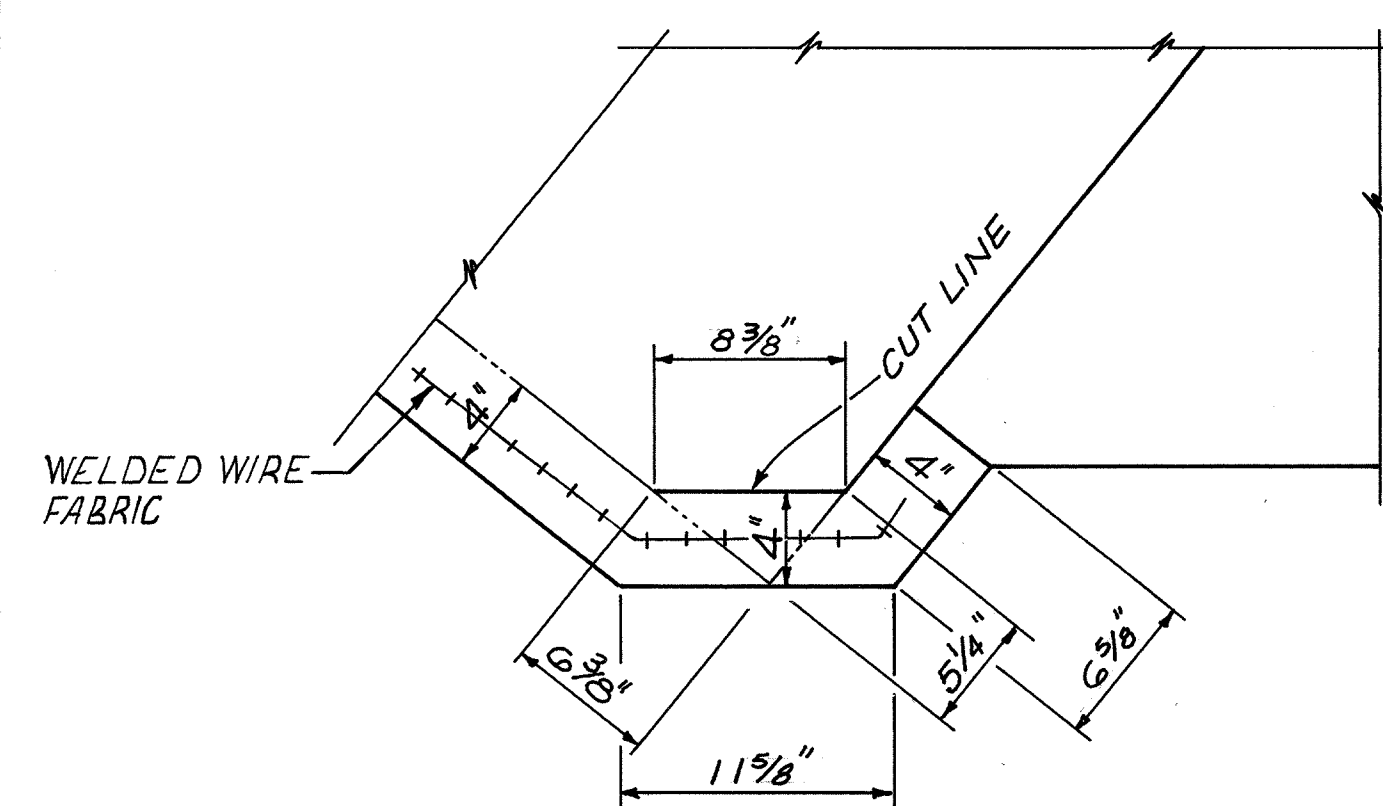
SECTION R-R



**MEDIAN BARRIER DETAIL
WEST ABUTMENT**

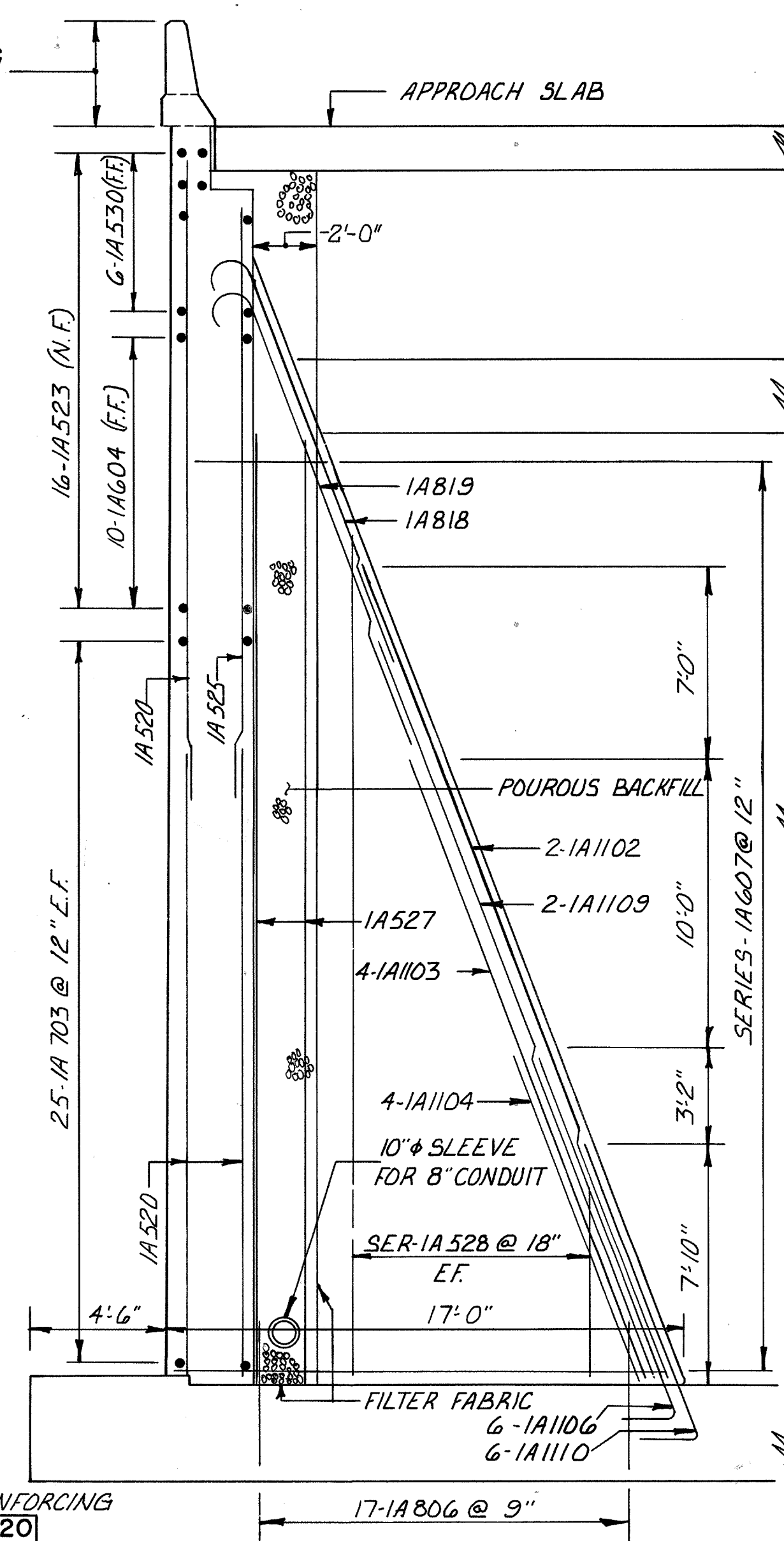


SECTION X-X



DETAIL - A

SEE SECTION G-G
SHEET 35/120



FOR FOOTING REINFORCING
SEE SHEET 31/120

FOR PILE LOCATIONS SEE SHEET 7/120

SECTION Y-Y

NOTES:

- ① SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 30/120
CONSULTING ENGINEERS
AKRON, OHIO

WEST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	DAK		RGS	JBH	3-31-87	

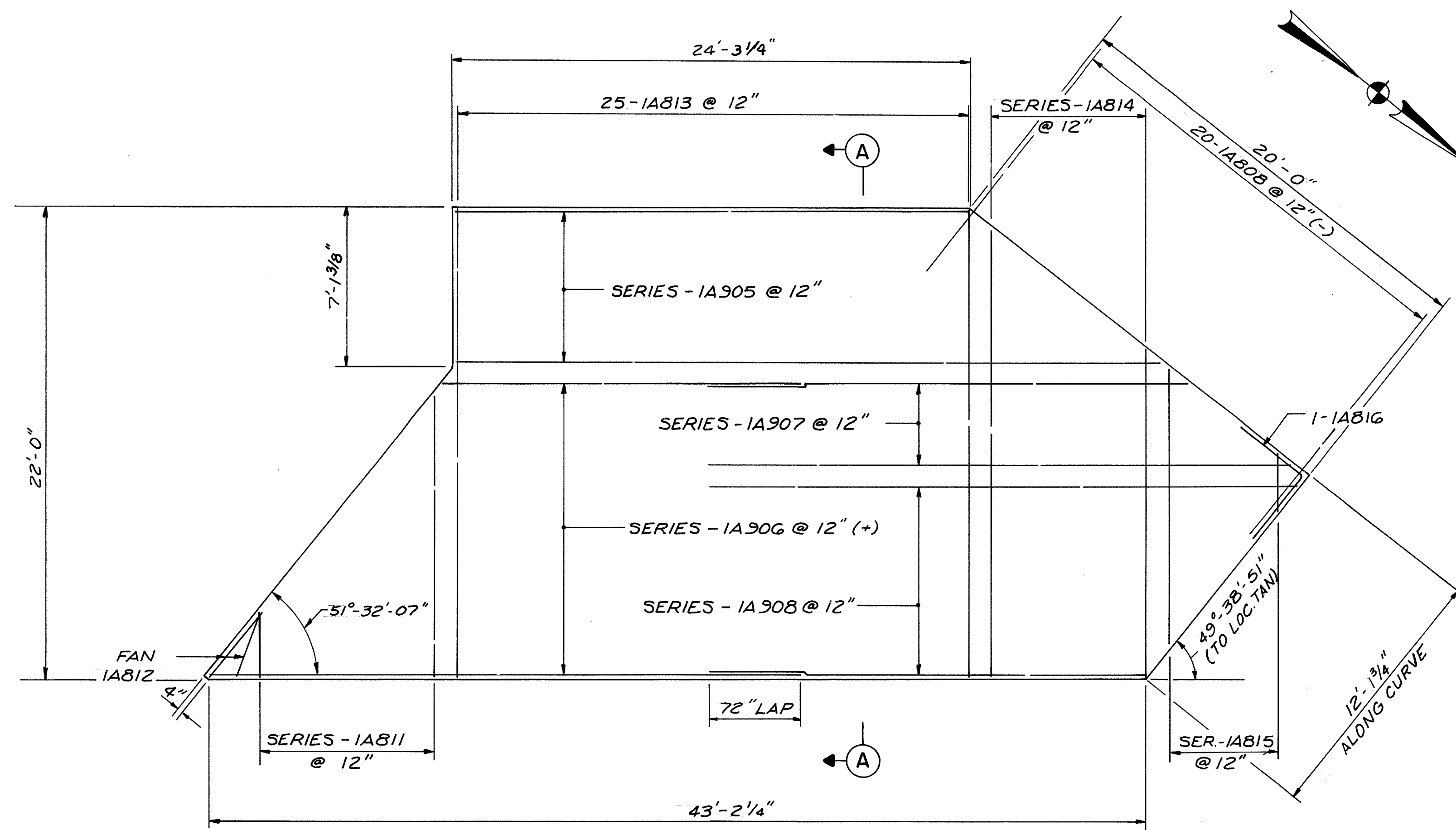
FHWA REGION	STATE	PROJECT	
5	OHIO		

971
1214

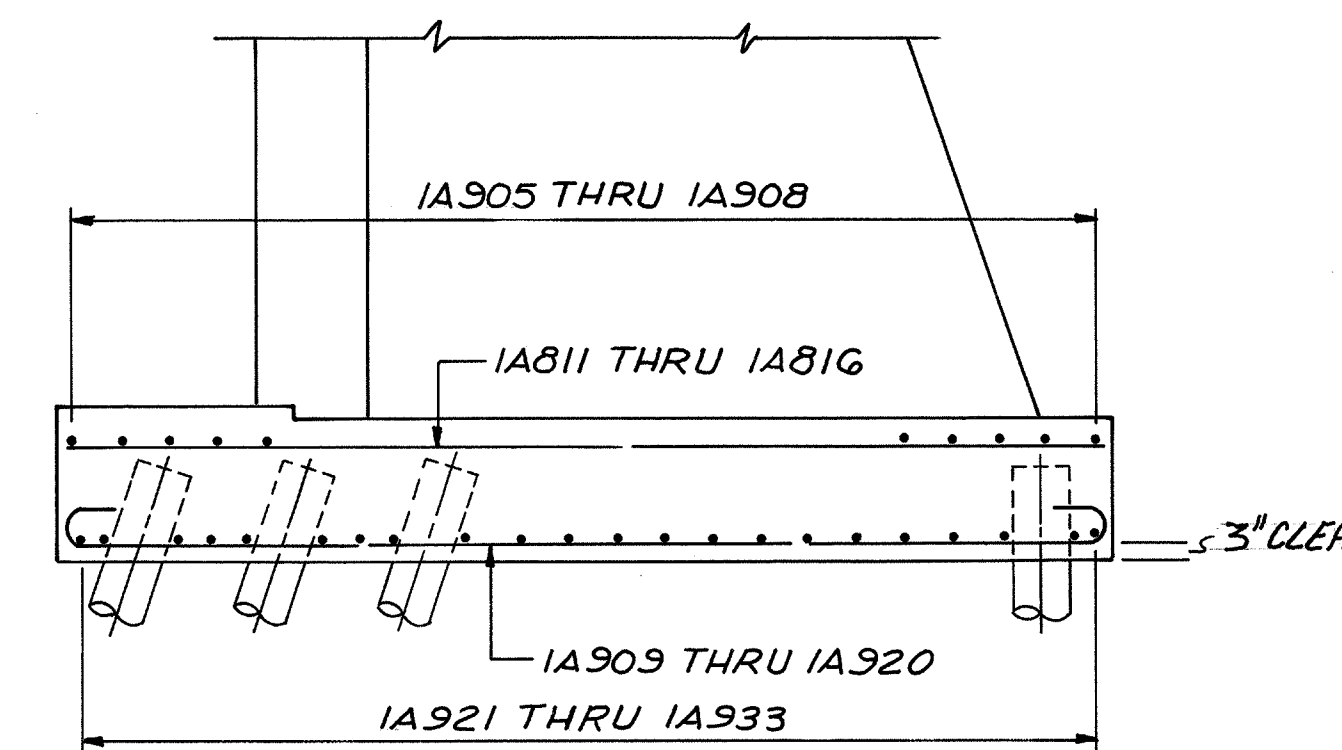
SUMMIT COUNTY
SUM 76-11.57

NOTES:

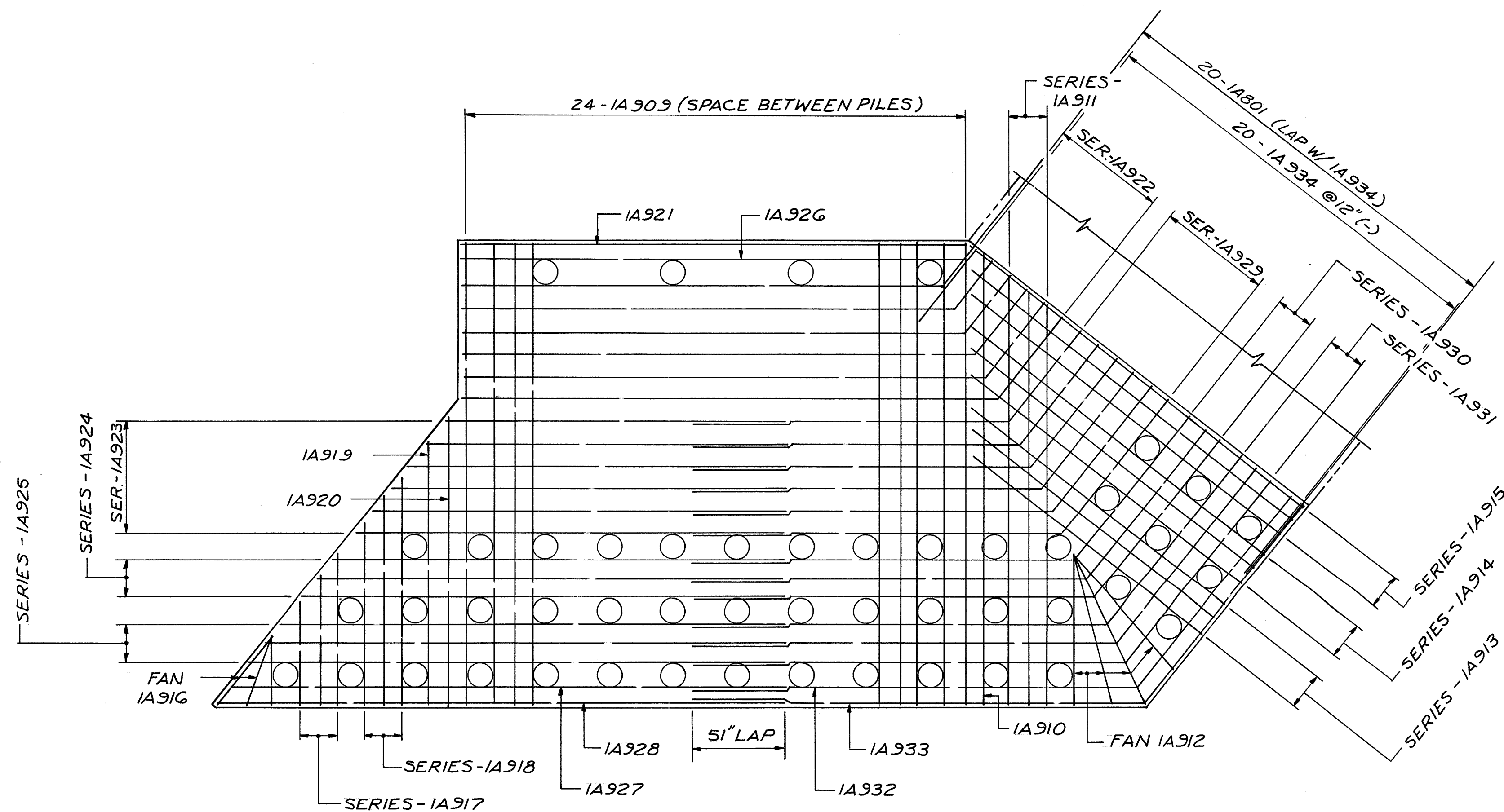
- ① REFER TO WEST ABUTMENT DETAILS FOR ADDITIONAL PLAN DIMENSIONS.
- ② SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.



REINFORCING IN TOP OF FOOTING



SECTION A-A



REINFORCING IN BOTTOM OF FOOTING

McCOY ASSOCIATES INC. 31/120
CONSULTING ENGINEERS
AKRON, OHIO

**NORTHWEST ABUTMENT
FOOTING REINFORCING**

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	JDP	MRA	JMH	JBH	3-31-89	

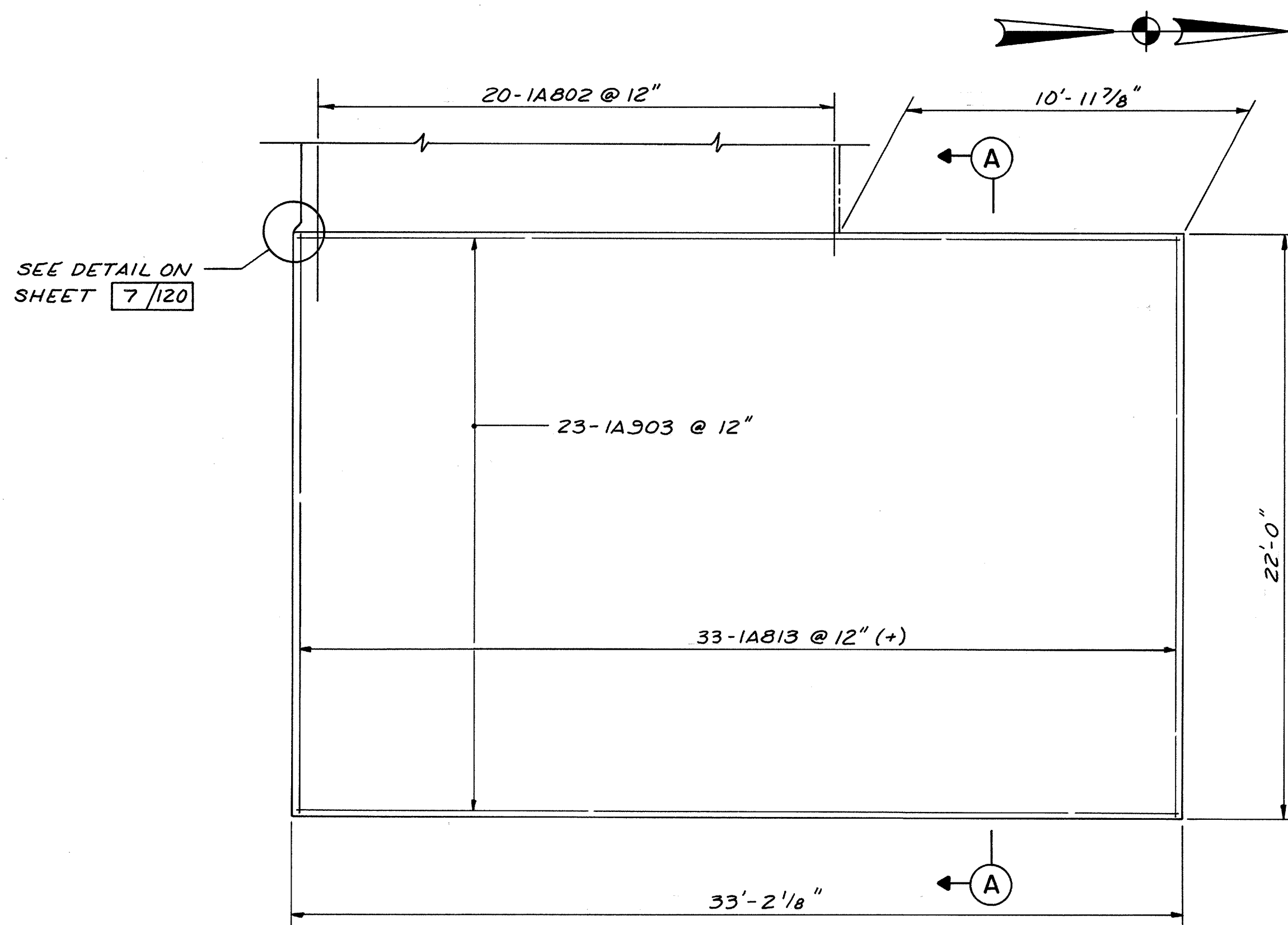
FHWA REGION	STATE	PROJECT	
5	OHIO		

972
1214

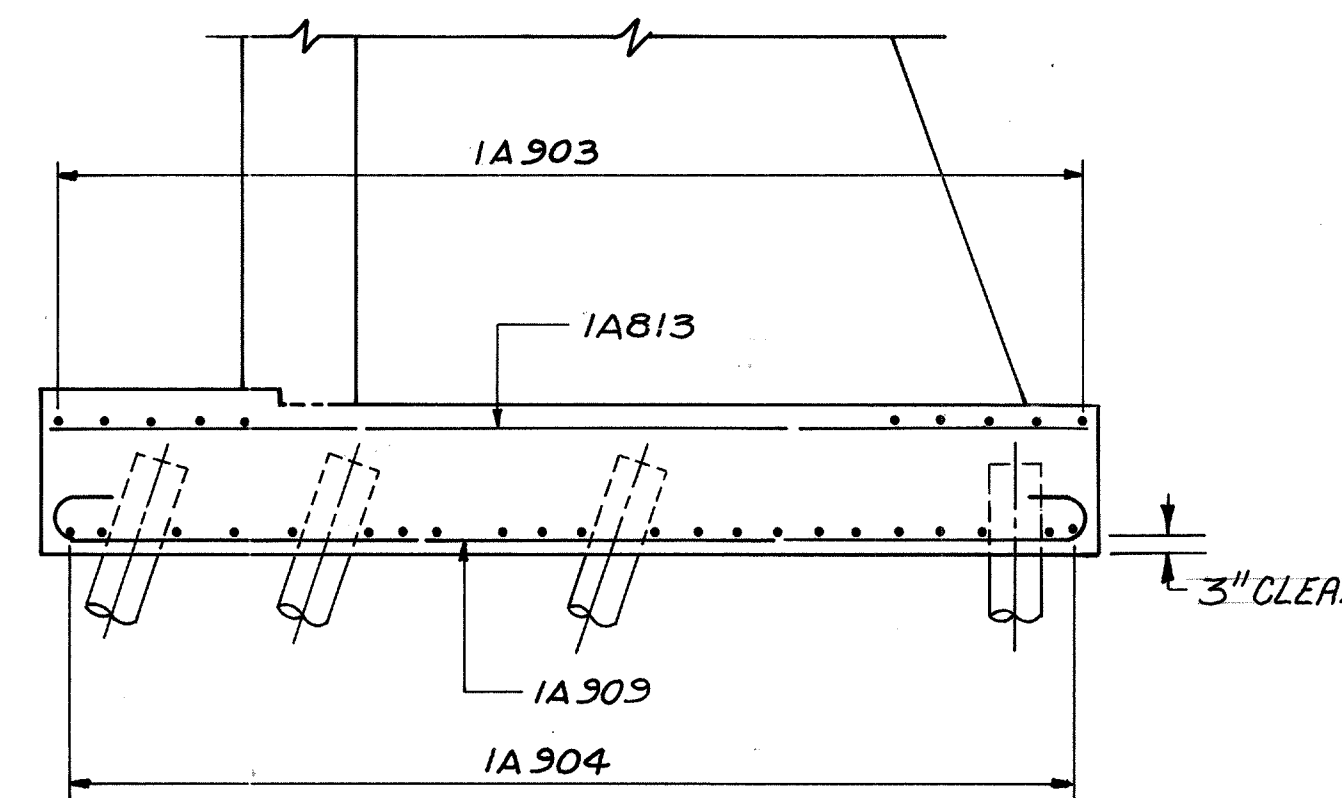
SUMMIT COUNTY
SUM 76-11.57

NOTES:

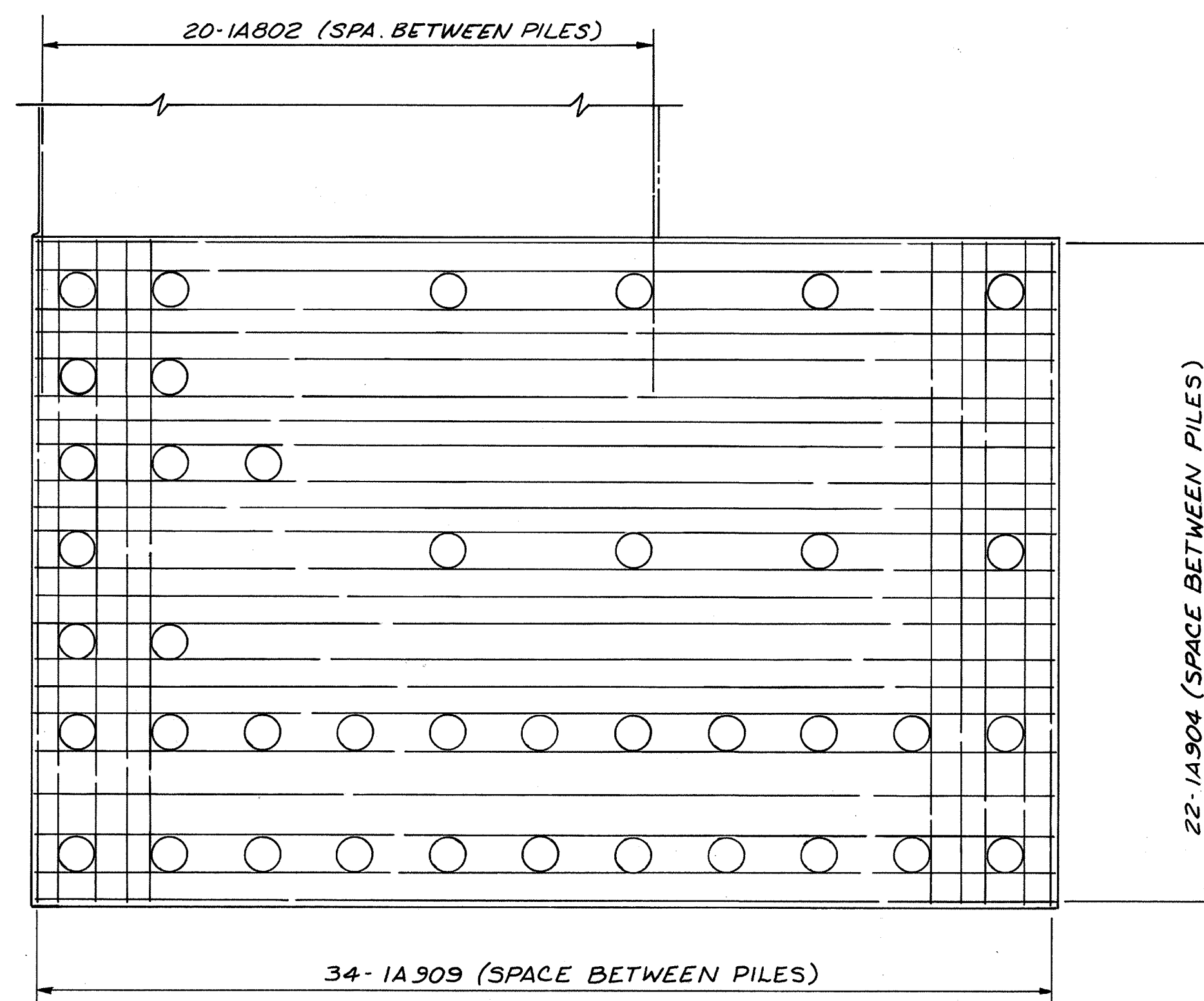
- ① REFER TO WEST ABUTMENT DETAILS FOR ADDITIONAL PLAN DIMENSIONS.
- ② SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.



REINFORCING IN TOP OF FOOTING



SECTION A - A



REINFORCING IN BOTTOM OF FOOTING

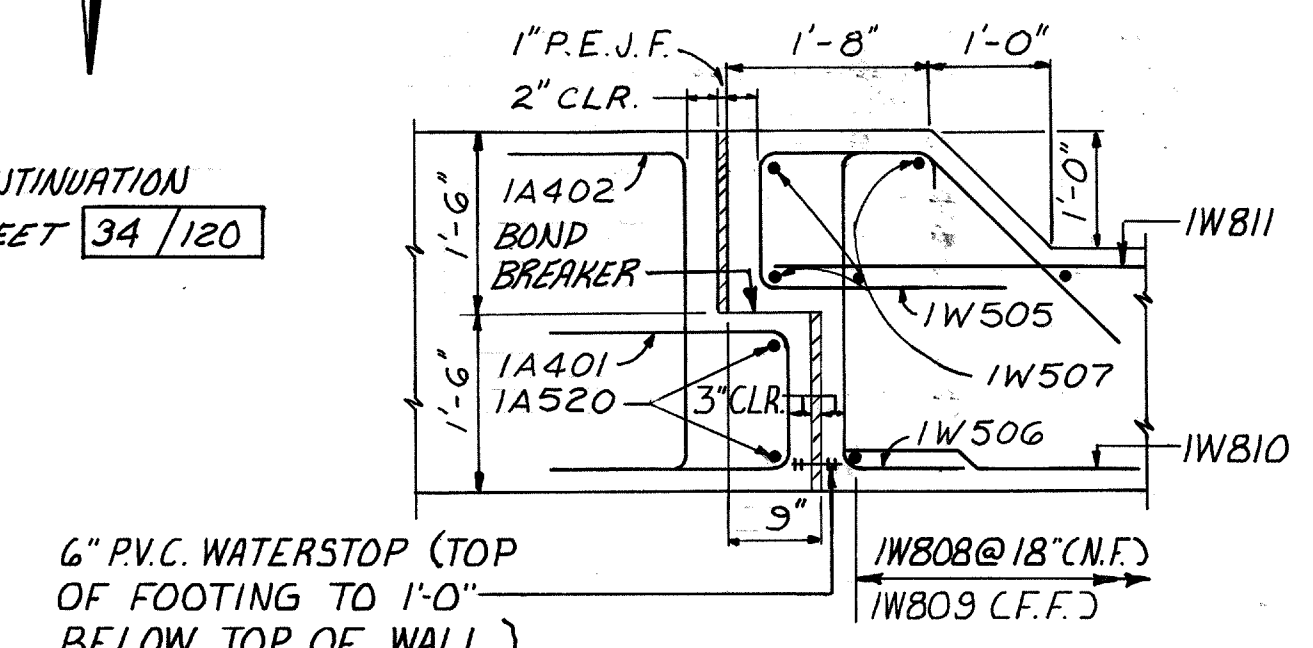
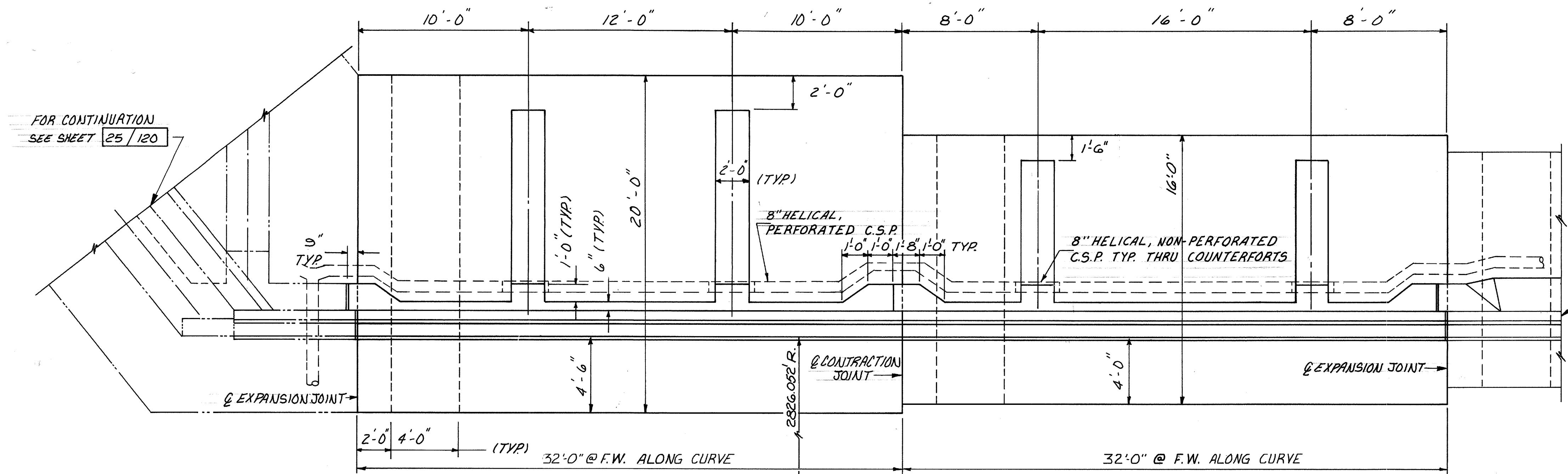
McCOY ASSOCIATES INC. 32/120
CONSULTING ENGINEERS
AKRON, OHIO

**SOUTHWEST ABUTMENT
FOOTING REINFORCING**

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

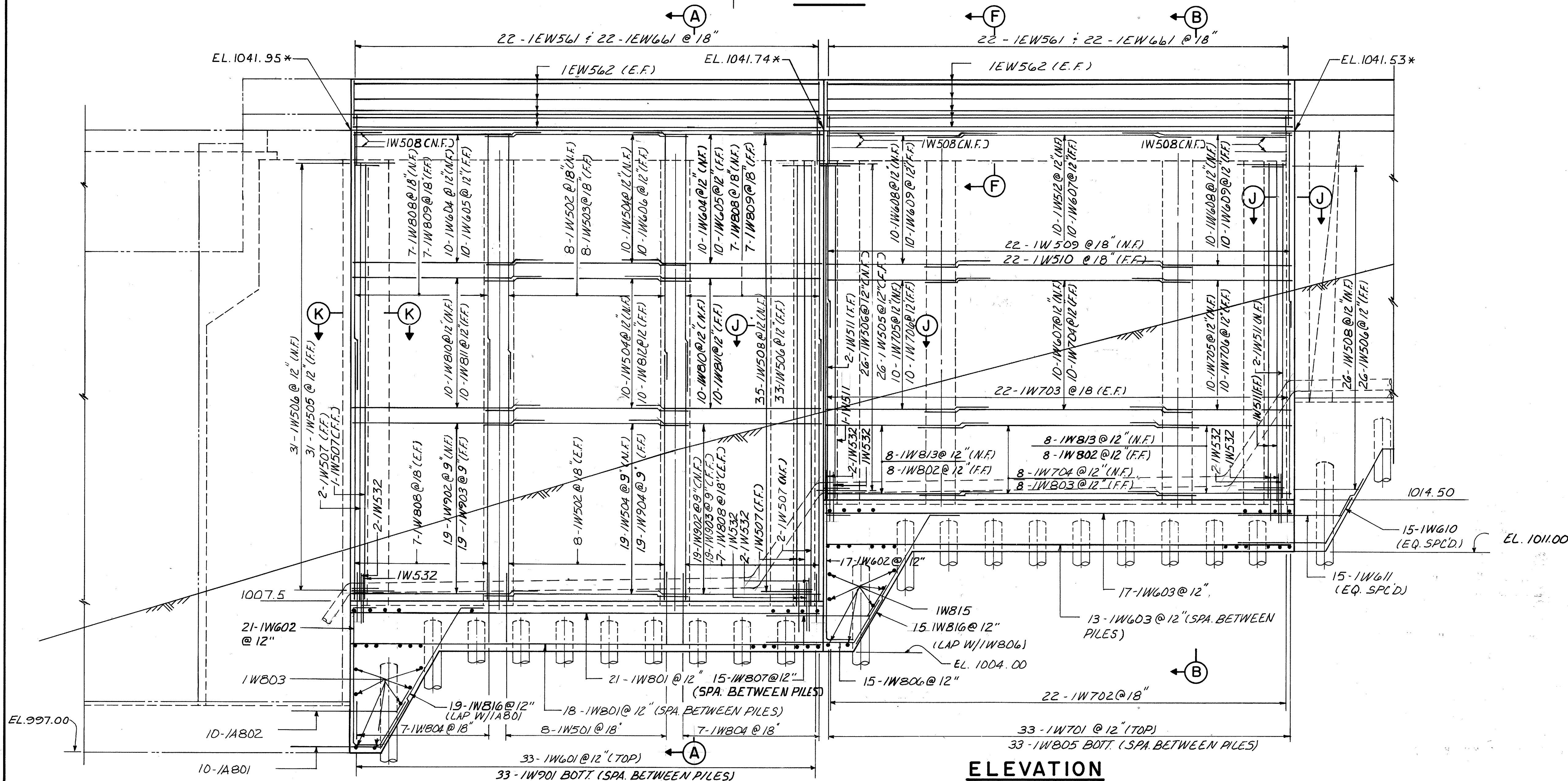
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	J.D.R.	M.R.A.	JMH	JBH	3-31-89	

SUMMIT COUNTY
SUM 76-11.57



PLAN

SECTION K-K



ELEVATION

NOTES

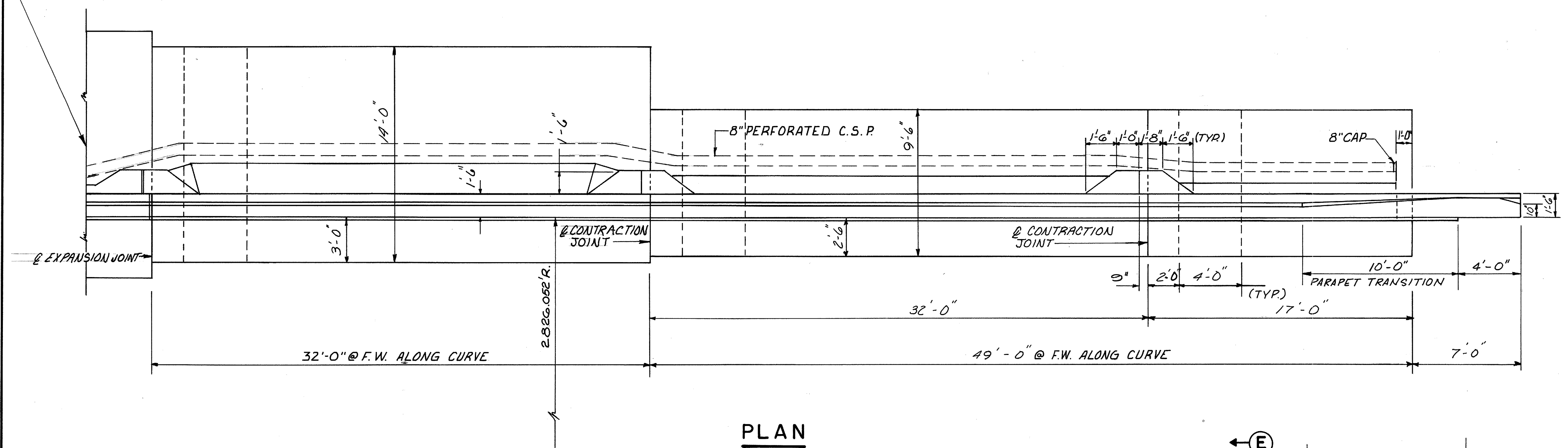
- ① *- INDICATES ELEVATION GIVEN AT TOE OF PARAPET & TOP OF APPROACH SLAB
- ② SEE SHEET 35/120 FOR ADDITIONAL DETAILS.
- ③ SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCoy Associates Inc. 33/120
CONSULTING ENGINEERS
AKRON, OHIO

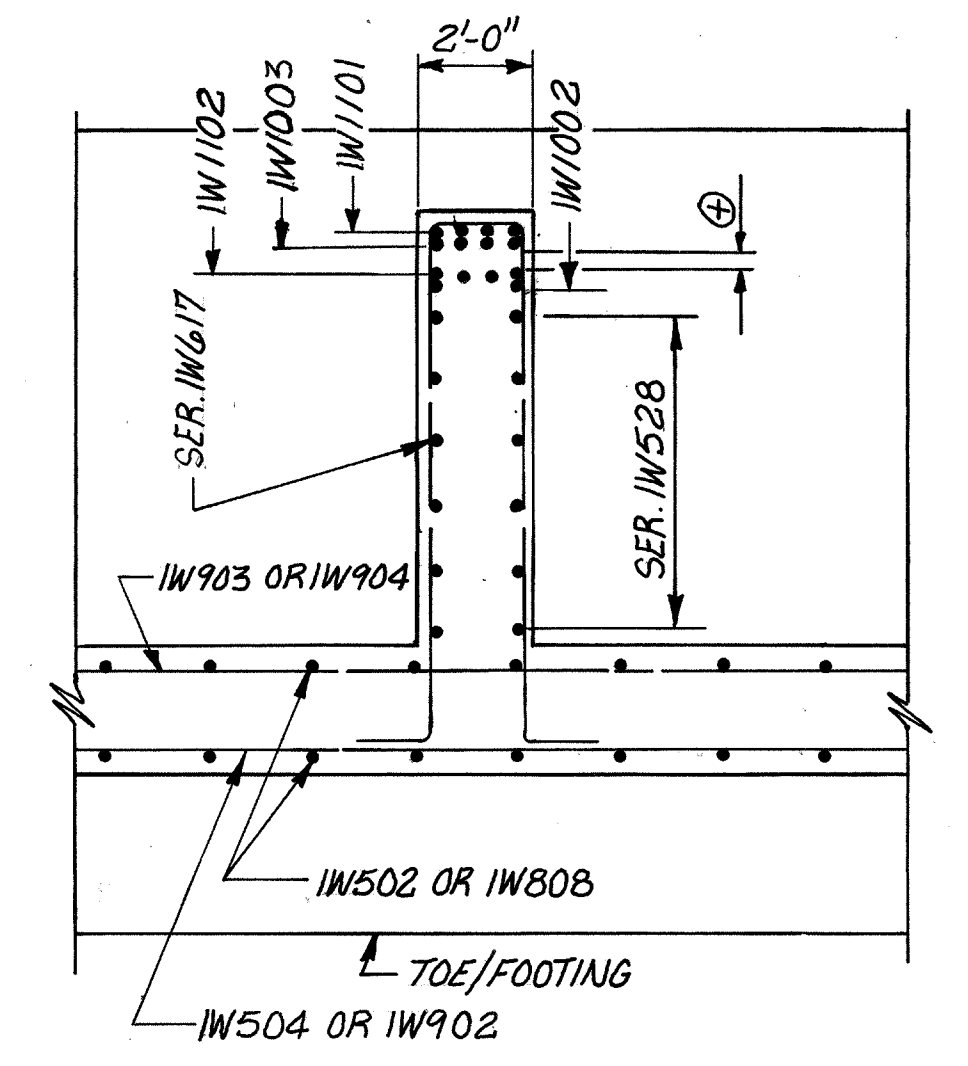
**NORTHWEST WINGWALL
DETAILS**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.P.		J.M.H.	J.B.H.	3-31-89	

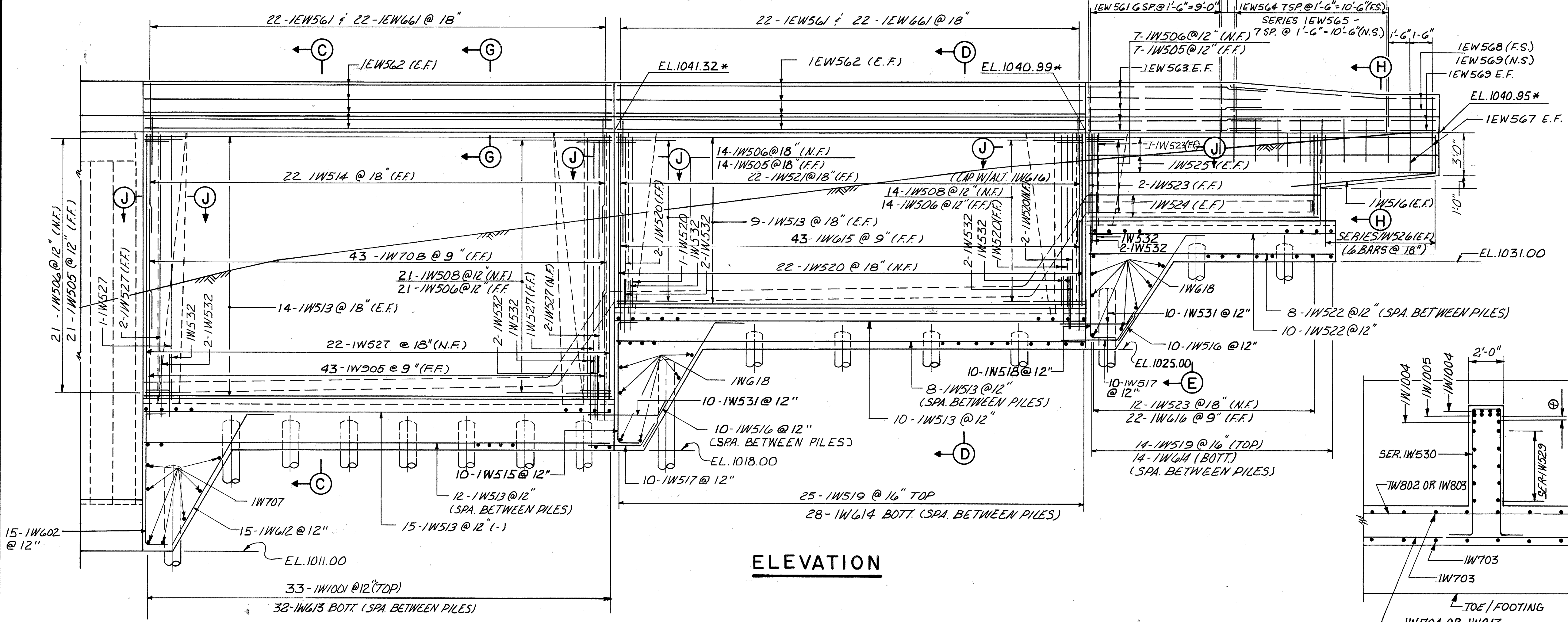
FOR CONTINUATION
SEE SHEET 33/120



PLAN



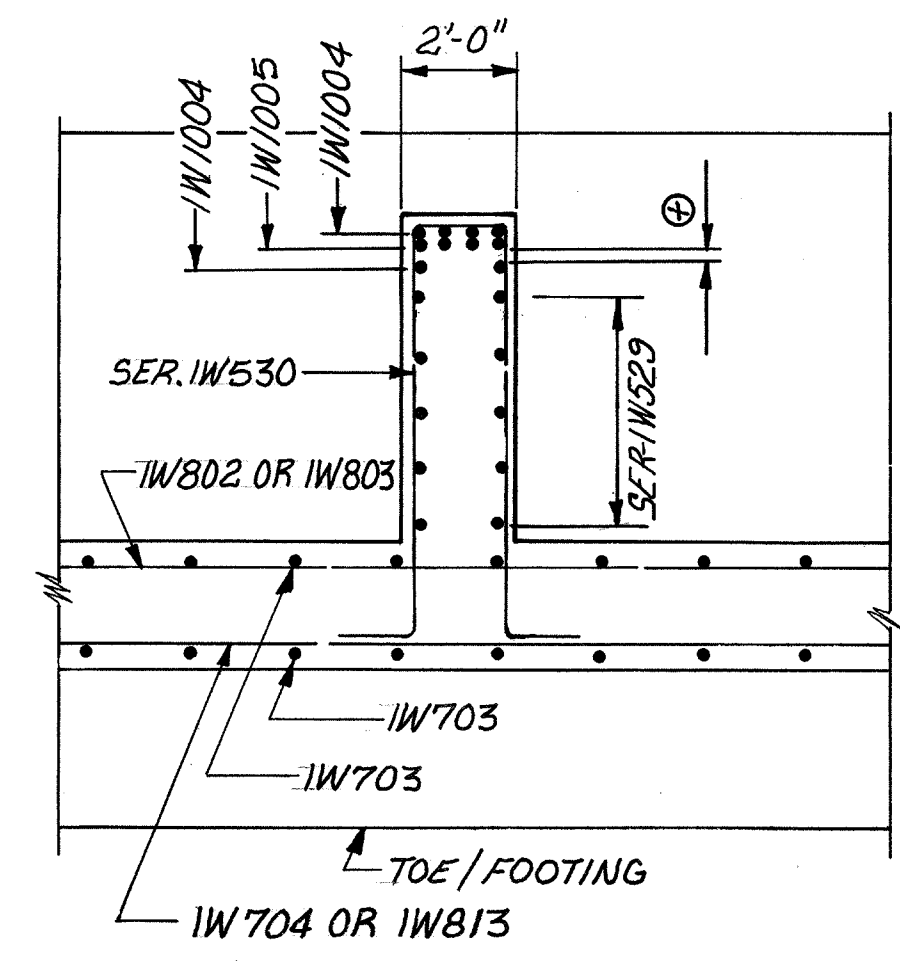
SECTION L-L



ELEVATION

NOTES

- ① *-INDICATES ELEVATION GIVEN AT TOE OF PARAPET & TOP OF APPROACH SLAB.
- ② SEE NOTES 1&2, SHEET 25/120 FOR ADDITIONAL NOTES.
- ③ SEE SHEET 35/120 FOR ADDITIONAL DETAILS.
- ④ ⊕-INDICATES 2'12" (MIN.) CLEAR BETWEEN ROWS OF BARS.



SECTION M-M

McCOY ASSOCIATES INC. 34/120
CONSULTING ENGINEERS
AKRON, OHIO

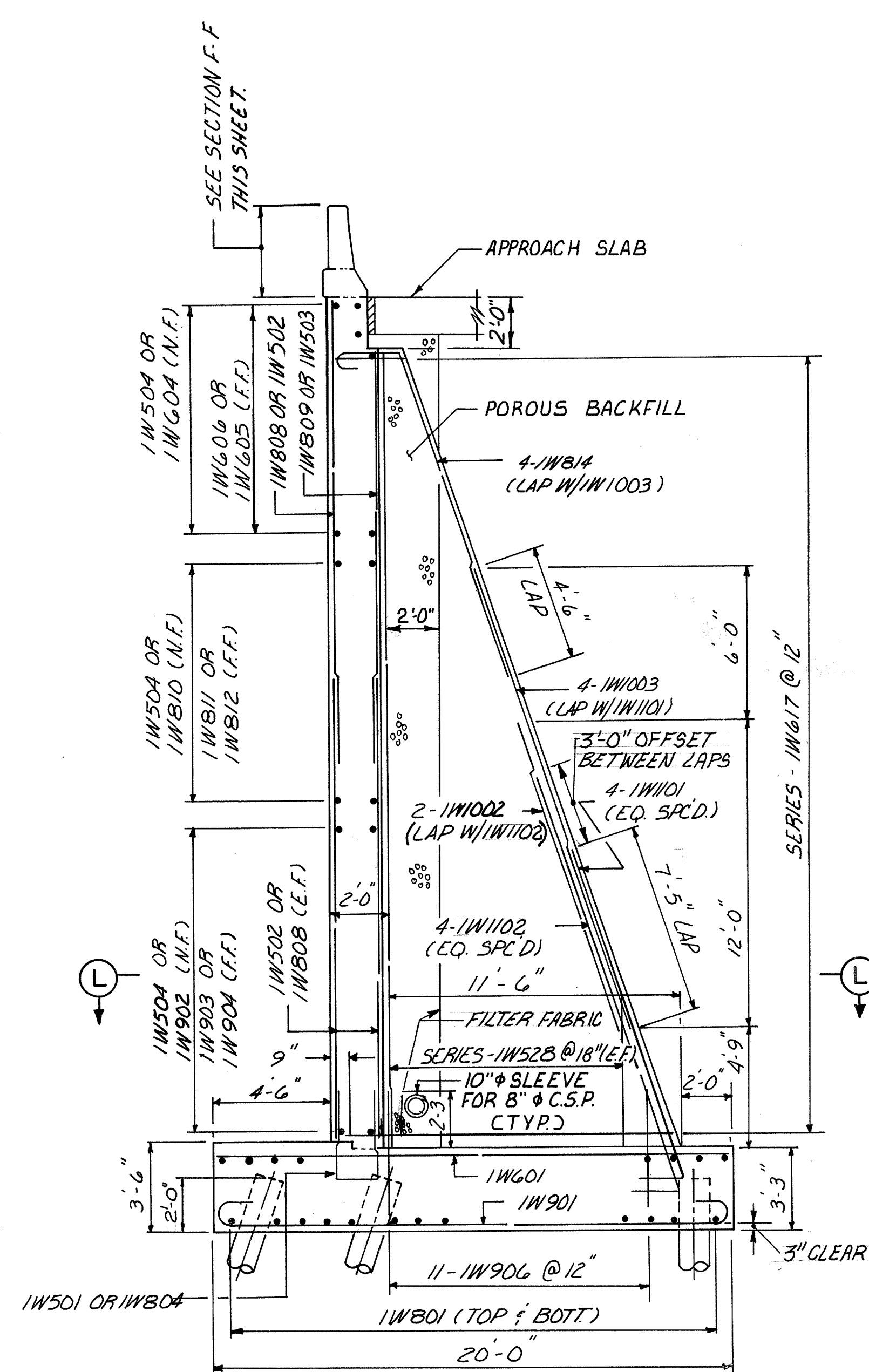
**NORTHWEST WINGWALL
DETAILS**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.R.		J.M.H.	J.B.H.	3-31-89	

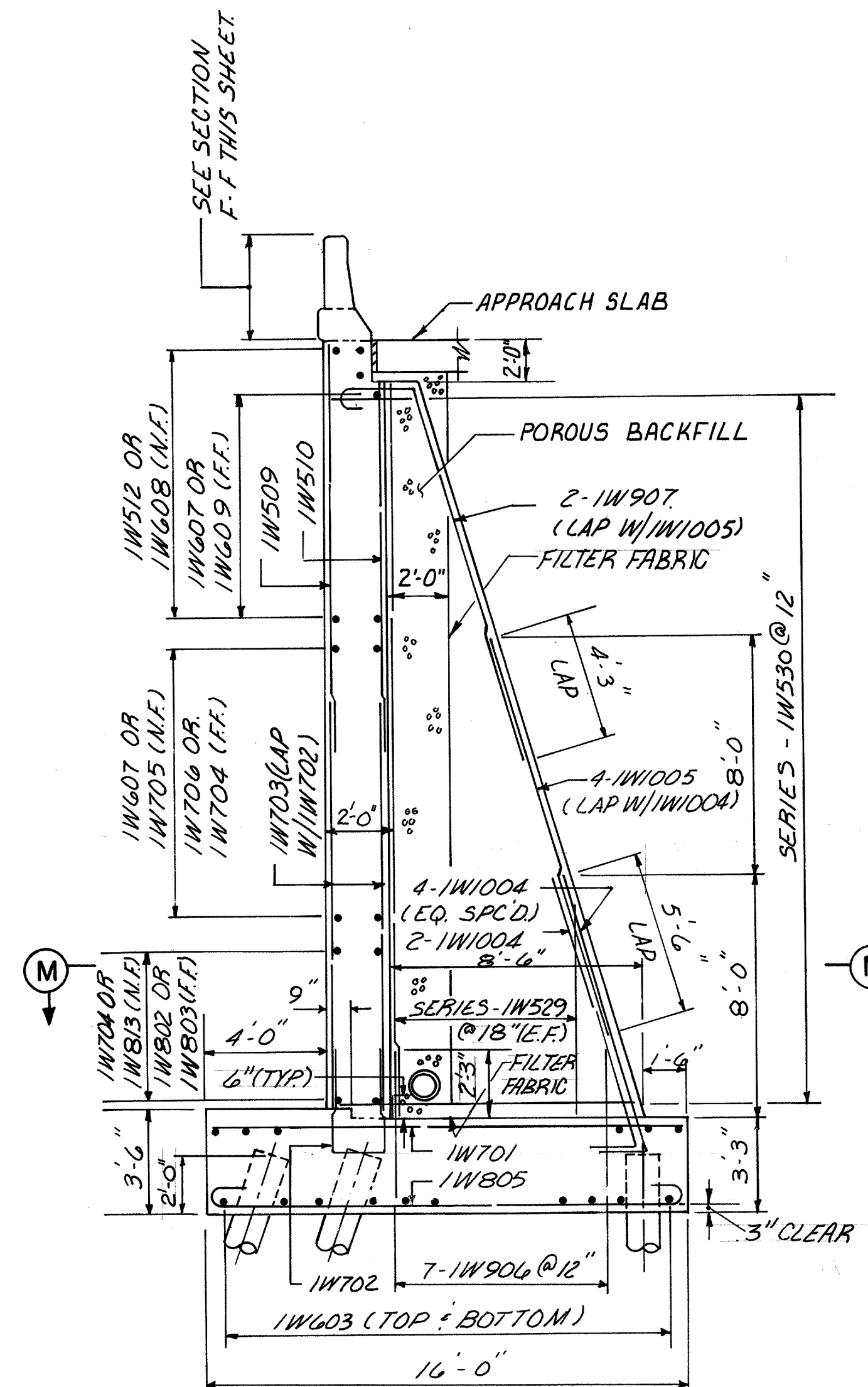
FHWA REGION	STATE	PROJECT
5	OHIO	

975
1214

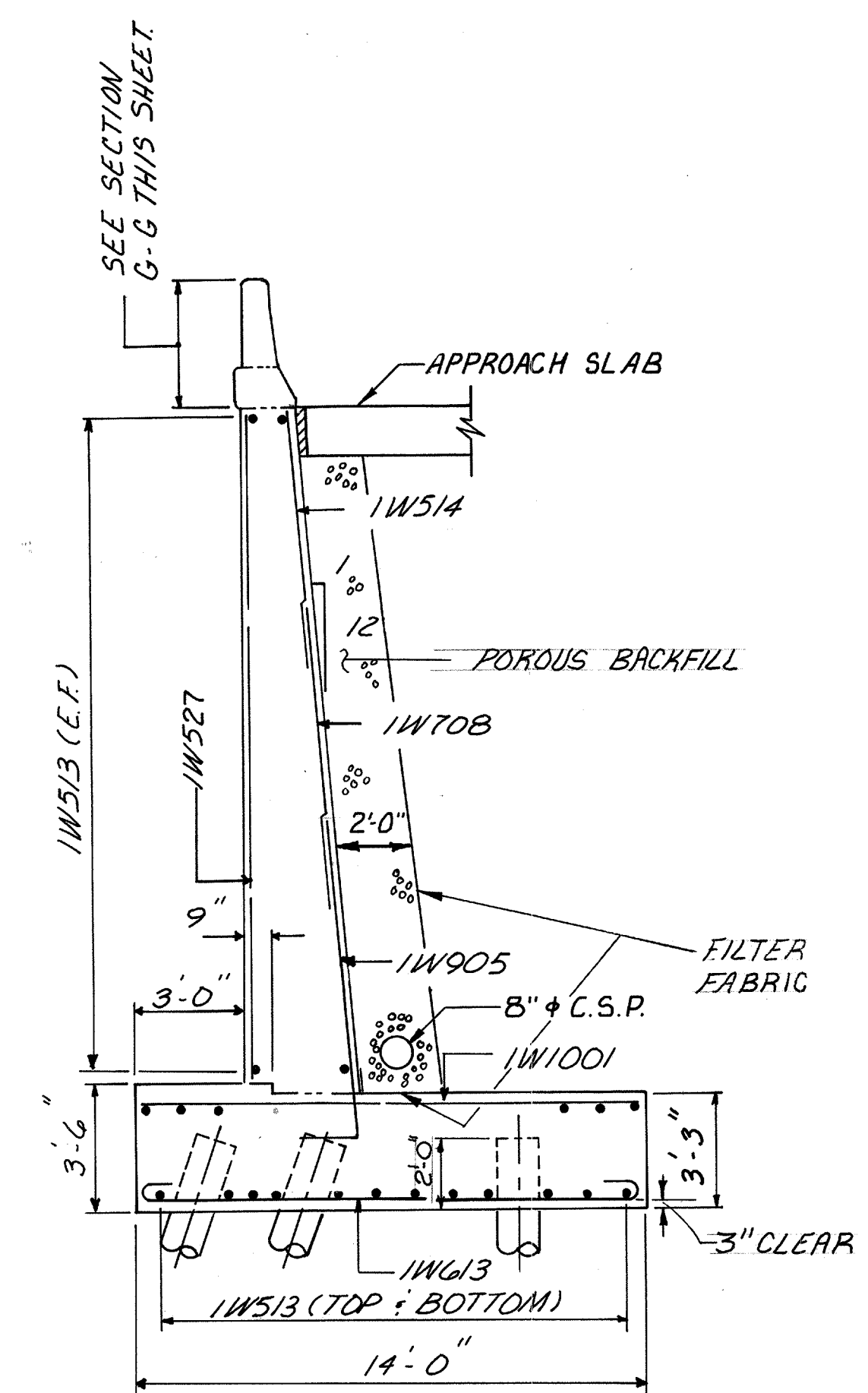
SUMMIT COUNTY
SUM 76-11.57



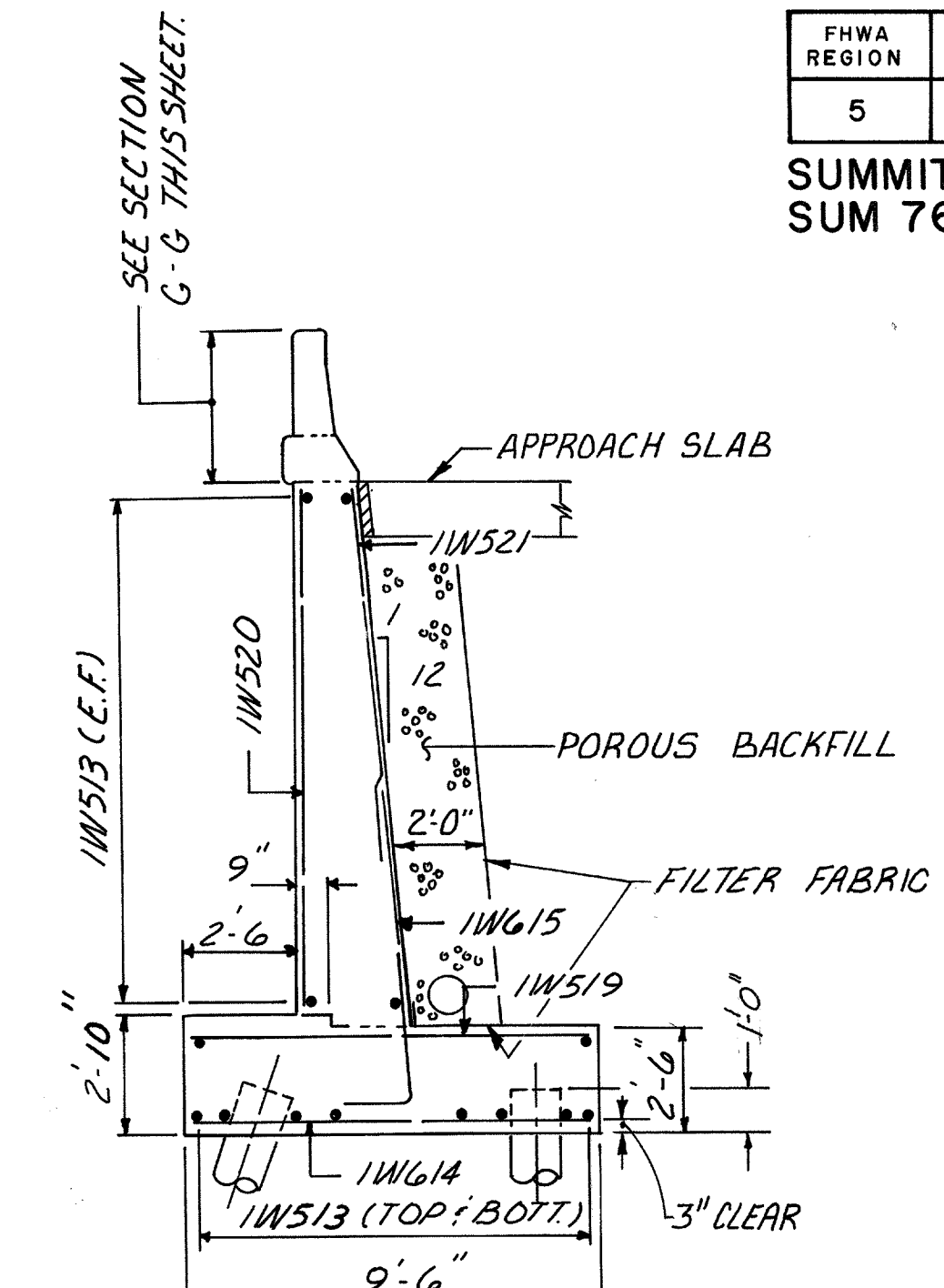
SECTION A-A



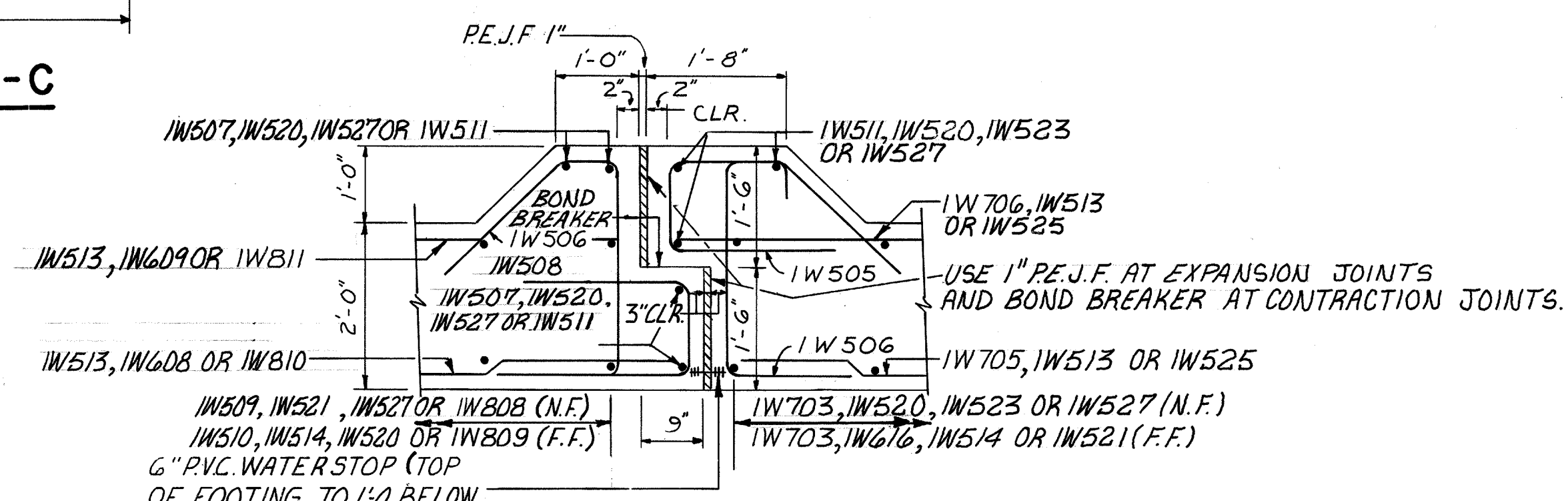
SECTION B-B



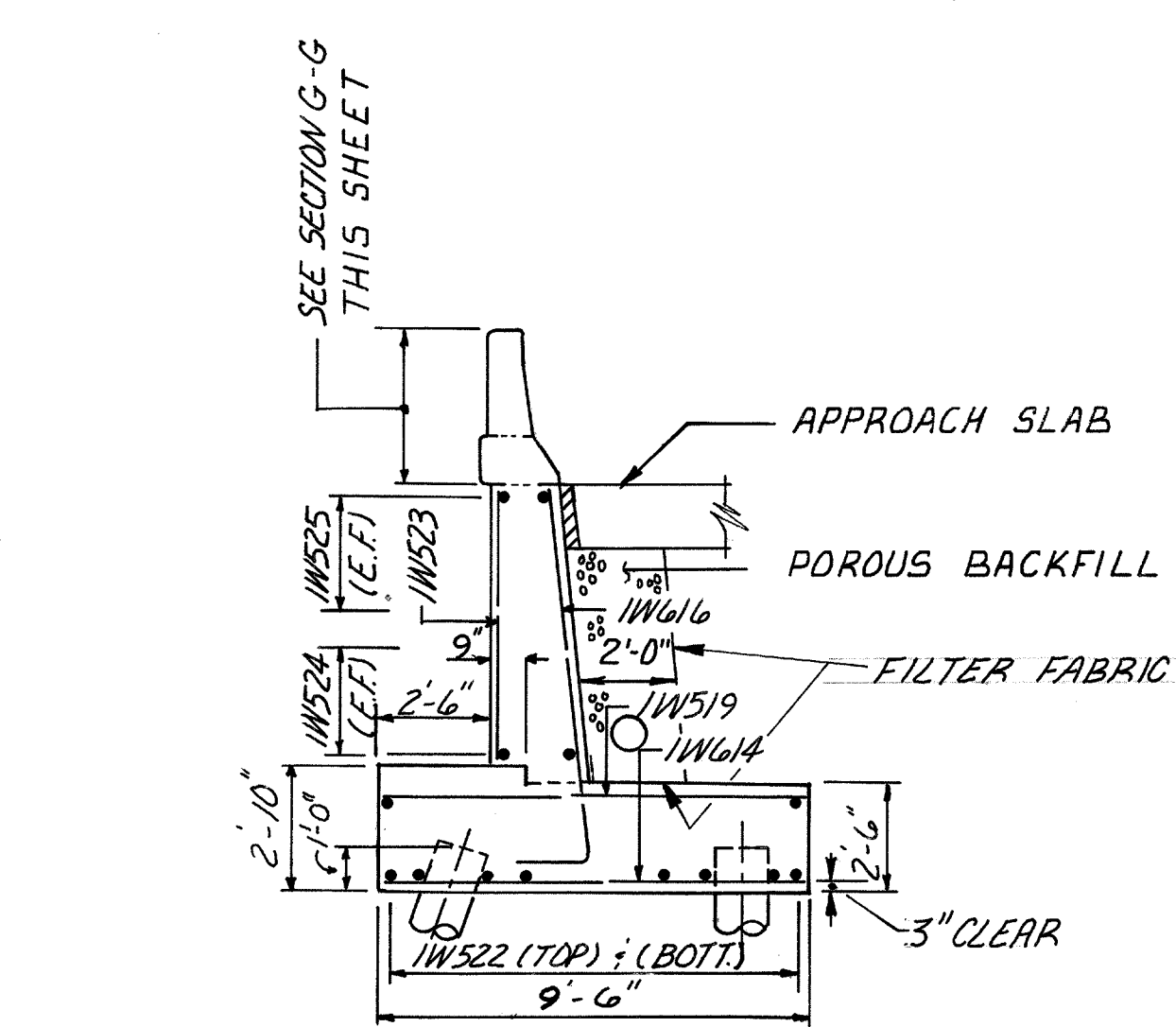
SECTION C-C



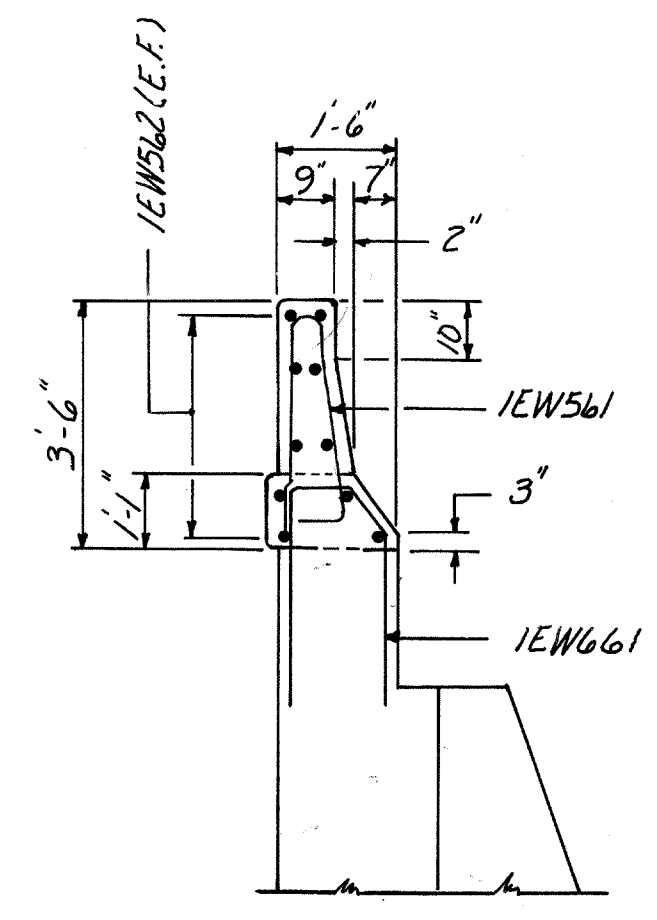
SECTION D-D



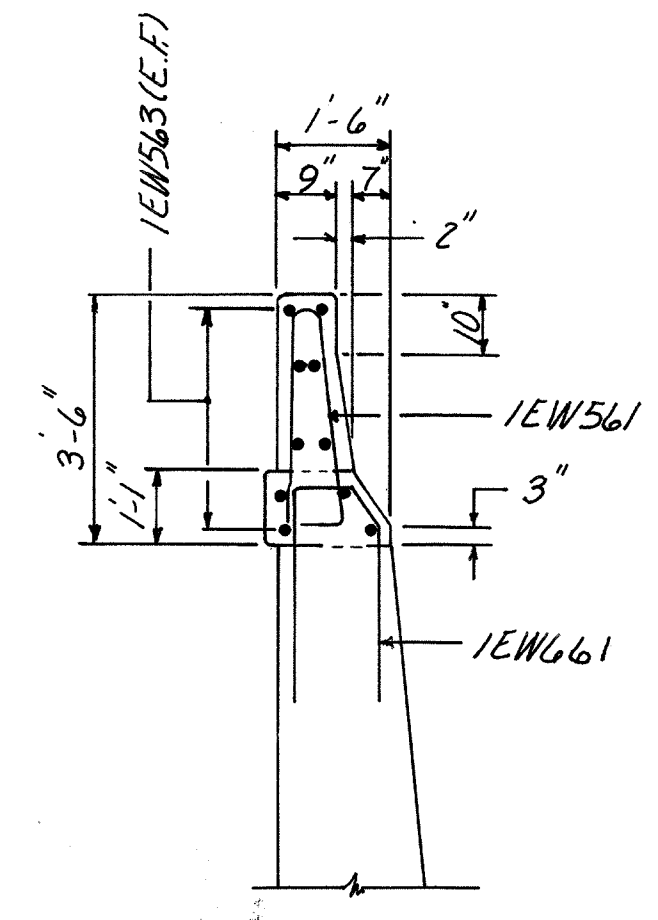
SECTION J-J



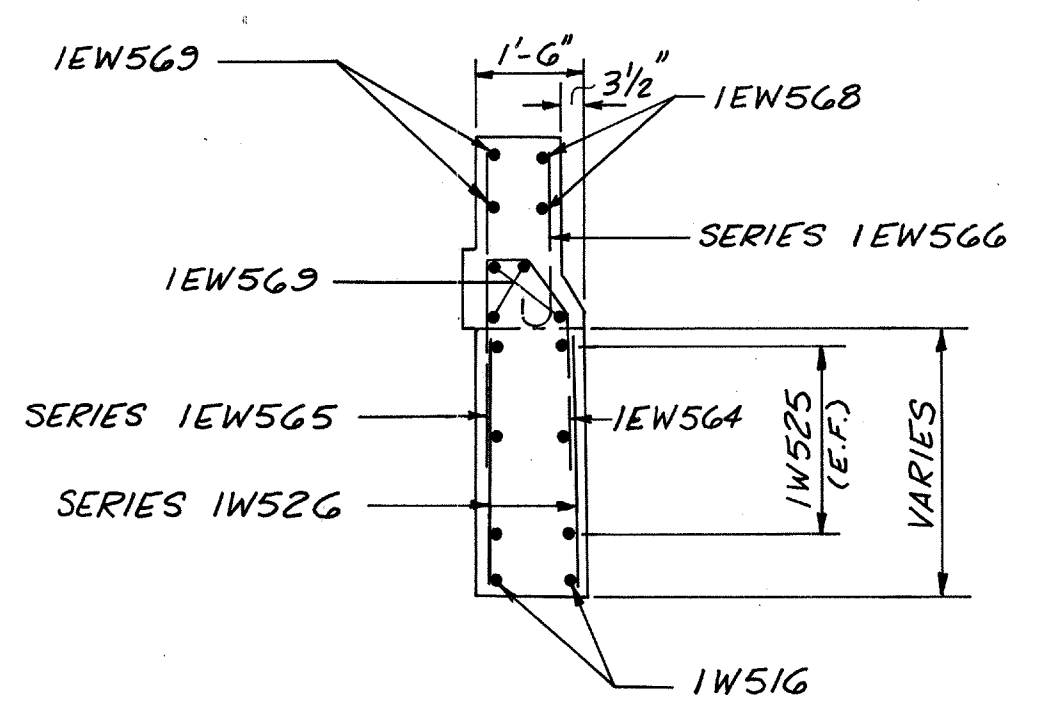
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

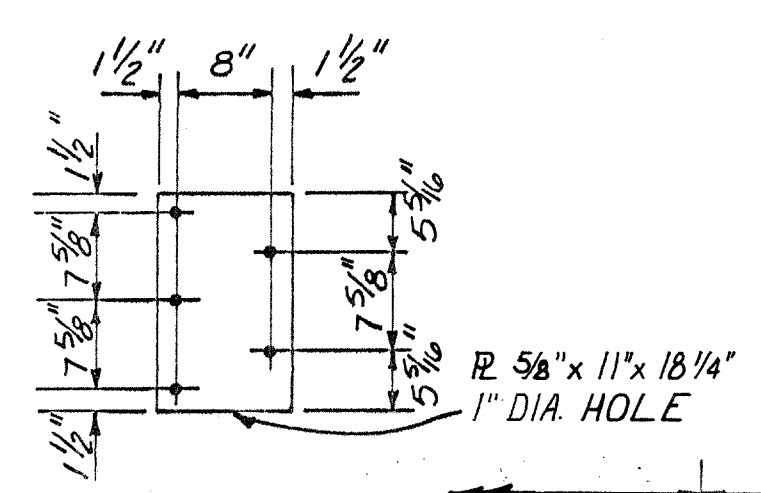
- NOTES**
- SEE NOTES 1 & 2, SHEET 25 / 120 FOR ADDITIONAL NOTES.
 - SEE SHEET 34 / 120 FOR ADDITIONAL DETAILS.

McCoy Associates Inc. 35 / 120
CONSULTING ENGINEERS
AKRON, OHIO

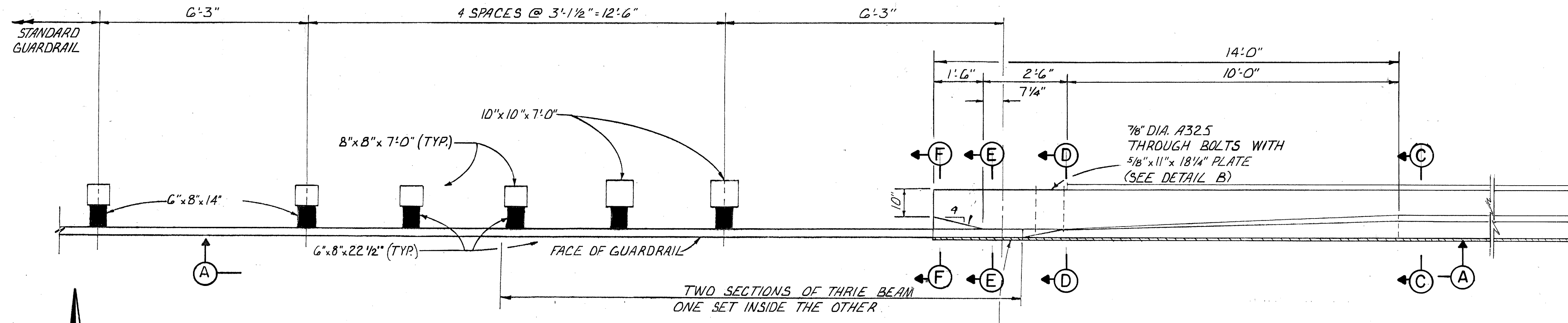
**NORTHWEST WINGWALL
DETAILS**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.R.		J.M.H.	J.B.H.	3-31-89	

SUMMIT COUNTY
SUM 76-11.57

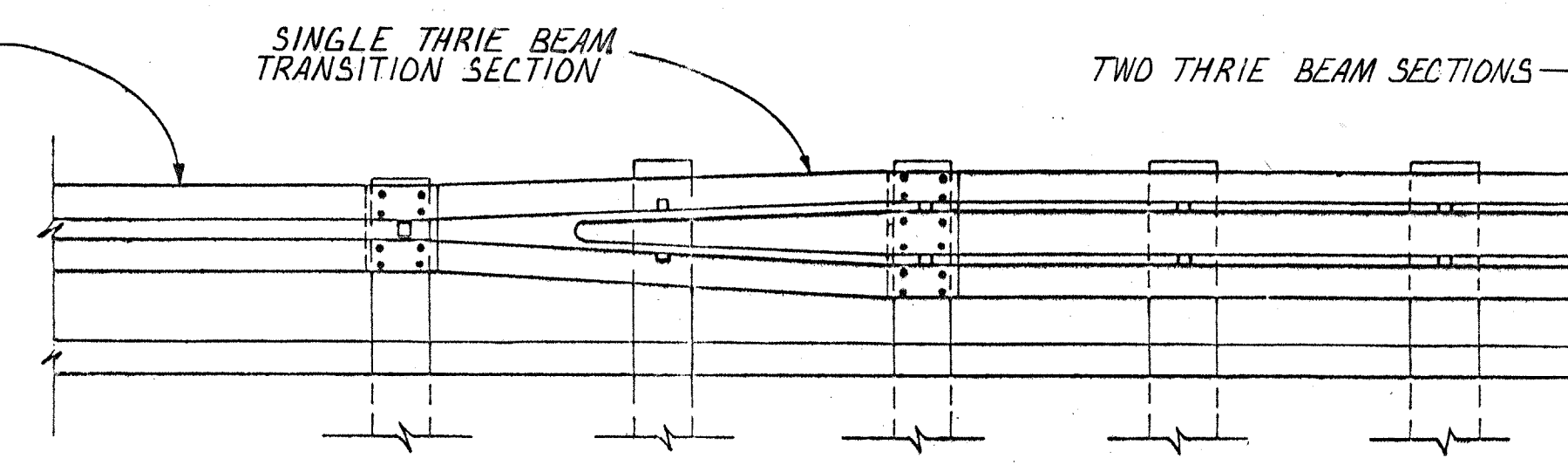


DETAIL B



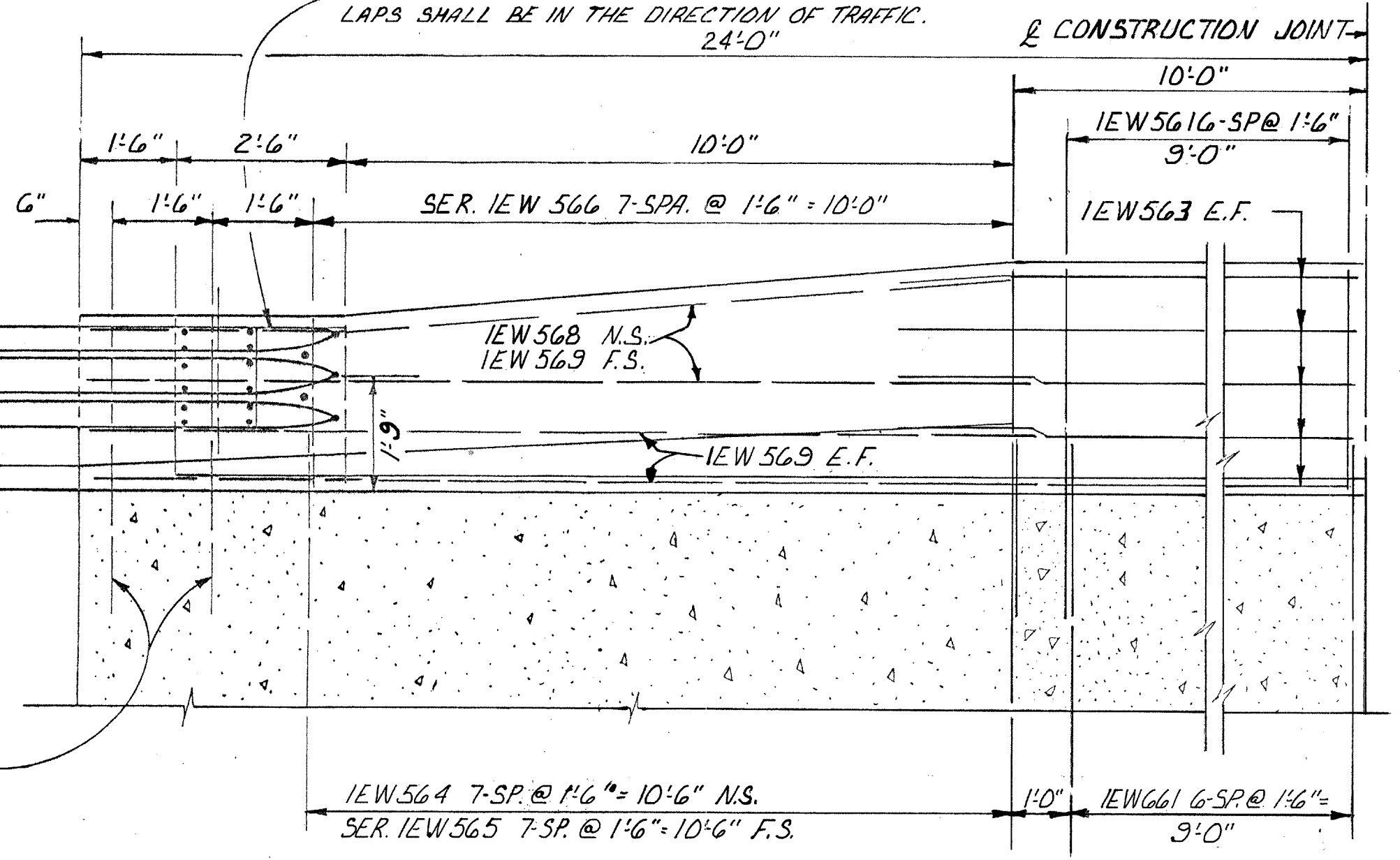
PART PLAN AT ABUTMENT

SINGLE DEEP BEAM RAIL SECTION

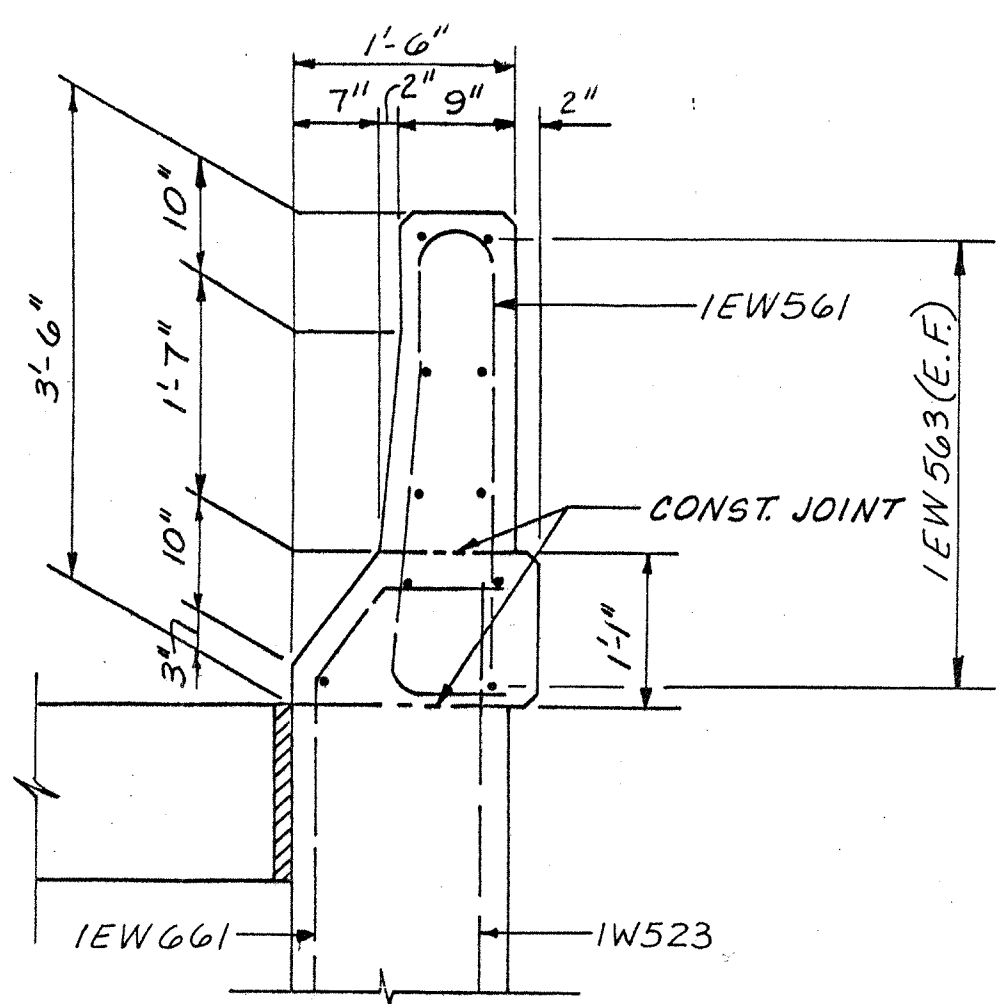


SINGLE THRIE BEAM TRANSITION SECTION

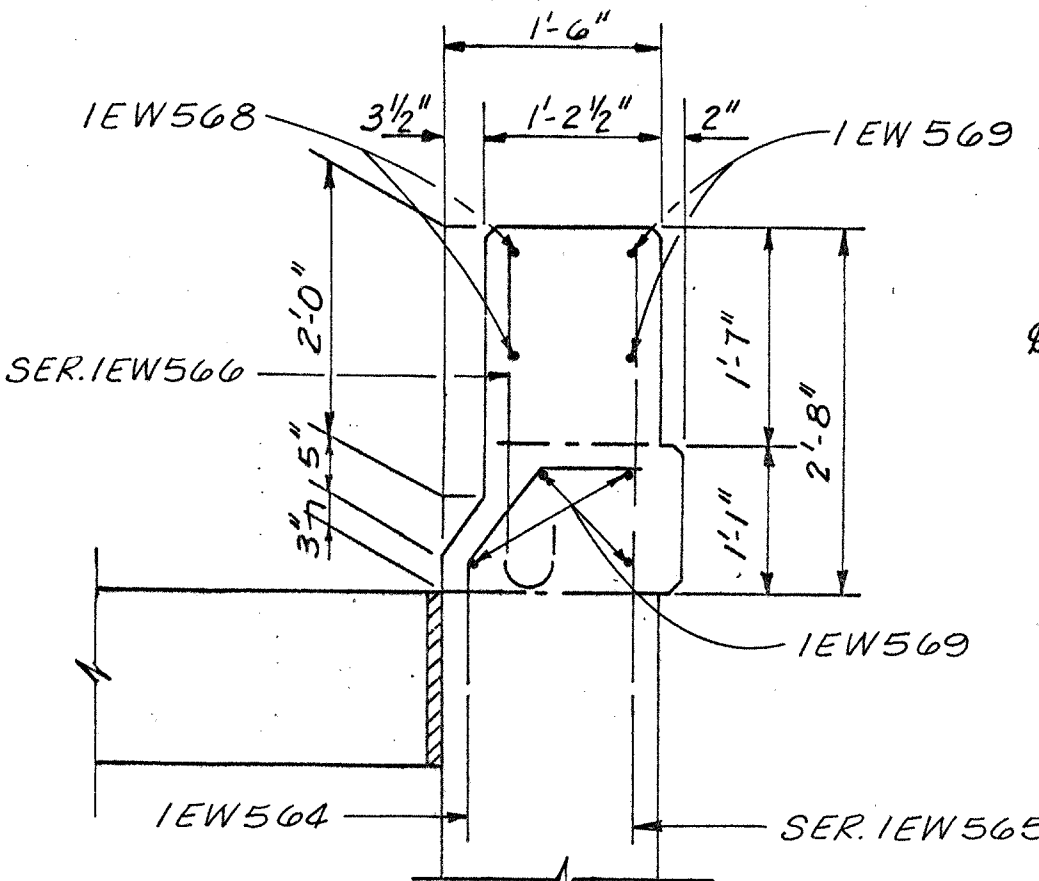
TWO THRIE BEAM SECTIONS



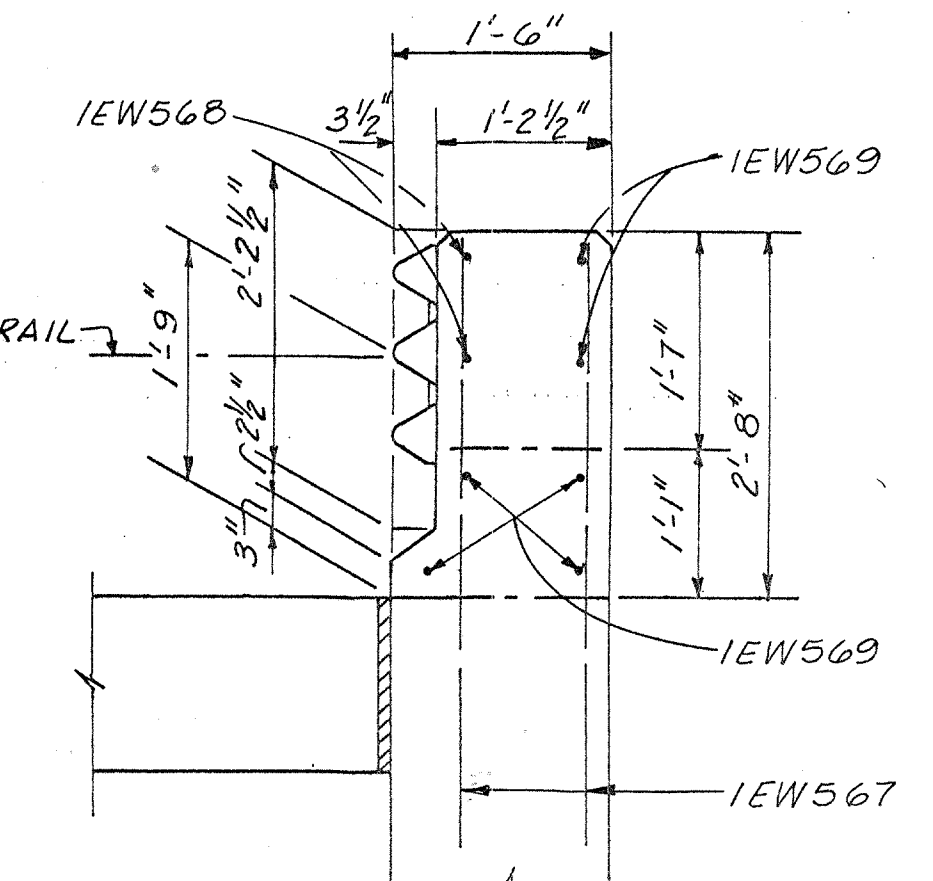
SECTION A-A



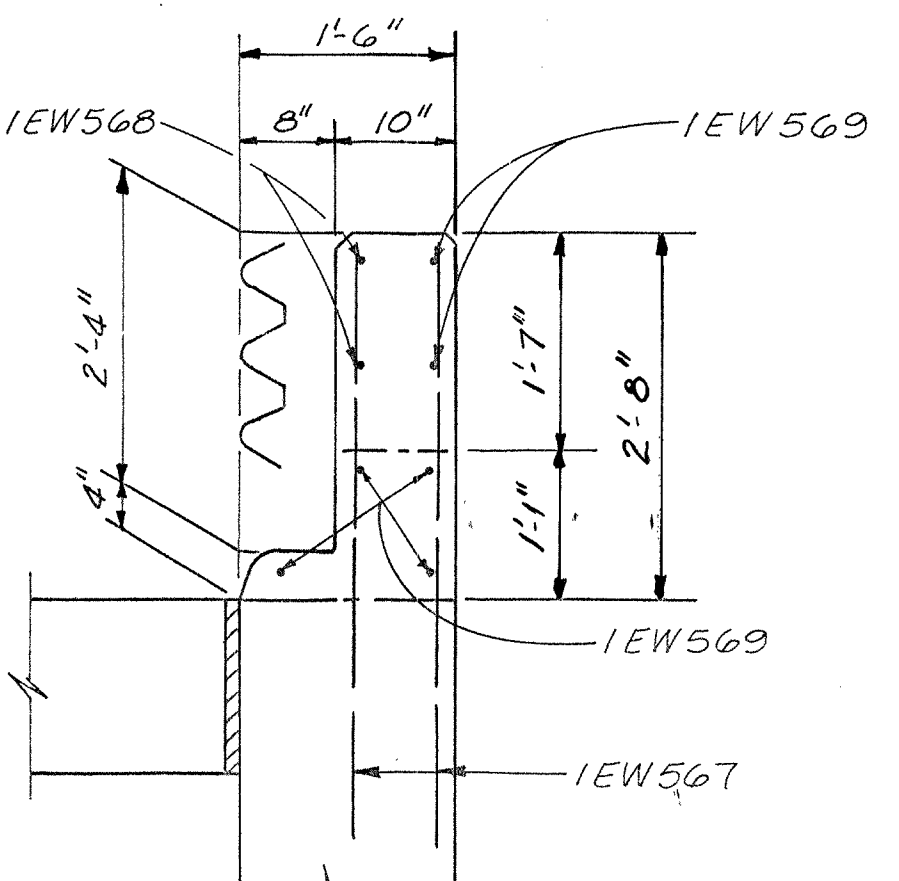
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

GENERAL NOTES

DESIGN SPECIFICATIONS: "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", ADOPTED BY AASHTO 1989, INCLUDING THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA: CONCRETE CLASS S $f'_c=4500$ P.S.I., $f_c=1500$ P.S.I., REINFORCING STEEL ASTM A615, A616 OR A617 GRADE 60 $f_s=24,000$ P.S.I.

PREFORMED EXPANSION JOINT FILLER IN THE PARAPET DEFLECTION JOINTS MAY BE EITHER 1/4" GRAY SPONGE RUBBER OR 1/4" GRAY CELLULAR POLYVINYL CHLORIDE (PVC) SPONGE. SPONGE RUBBER FILLER SHALL CONFORM TO AASHTO M-153, TYPE 1. DENSITY OF PVC SPONGE NOT TO BE LESS THAN 20 LBS. PER CU. FT.

DEFLECTION JOINTS SHALL BE SPACED AT 16'-0" CENTERS, MAX., EXCEPT THAT FOR CONTINUOUS STRUCTURES THE PANELS SHALL BE FURTHER SUBDIVIDED IN THE NEGATIVE MOMENT REGION (OVER THE PIERS) INTO LENGTHS OF NOT LESS THAN 5'-0" NOR MORE THAN 7'-6", REINFORCING BARS SHALL NOT EXTEND THROUGH DEFLECTION JOINTS.

CONCRETE PARAPETS ABOVE UPPER CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATE SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER REMOVAL OF BULKHEADS AND AFTER PLACEMENT OF EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF CONCRETE AND SHALL BE FREE OF MORTAR.

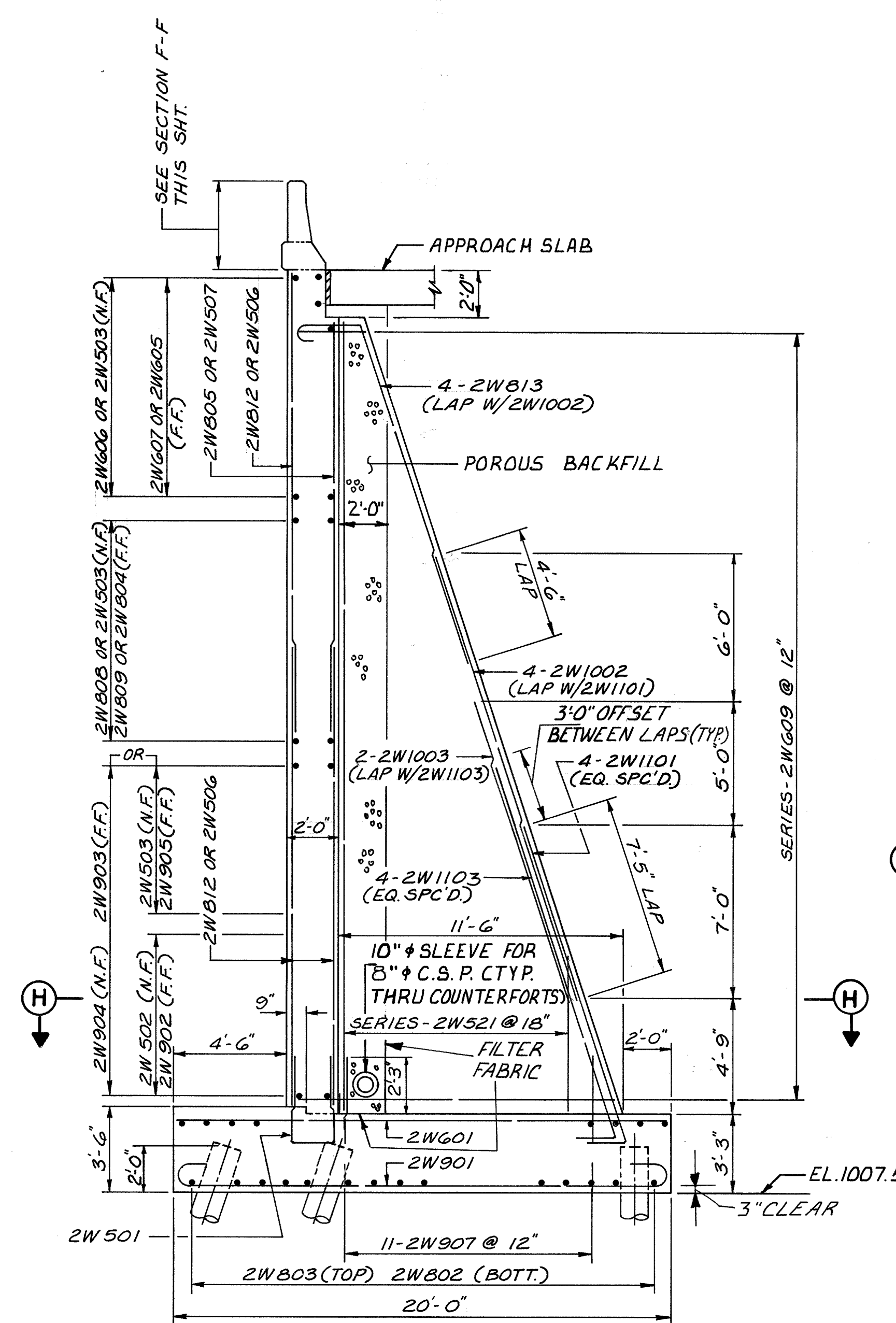
PAYMENT: ADDITIONAL GUARDRAIL COST IN EXCESS OF NORMAL GUARDRAIL COST, SUCH AS: TERMINAL CONNECTOR, STEEL PLATE, BOLTS, NUTS, PLATE WASHERS AND OTHER HARDWARE SHALL BE INCLUDED WITH BRIDGE TERMINAL ASSEMBLY FOR PAYMENT. QUANTITIES OF CONCRETE AND REINFORCING STEEL FOR PARAPET ARE INCLUDED WITH THEIR APPROPRIATE ITEM UNDER EITHER ABUTMENTS OR SUPERSTRUCTURE FOR PAYMENT.

POSTS SHALL BE SQUARE-SAWED PRESSURE TREATED WOOD AS PER 710.14. POSTS SHALL BE FABRICATED WITH SQUARE ENDS. BOLT HOLES SHALL BE BORED AND TOPS OF POSTS TRIMMED. IF REQUIRED, AFTER POSTS ARE SET, POSTS MAY BE SET IN DRILLED HOLES OR DRIVEN TO GRADE. STEEL POSTS AND BLOCKOUTS MAY BE FURNISHED AS AN ALTERNATE, PROVIDED THAT THE STRENGTH EQUALS OR EXCEEDS THE STRENGTH OF WOOD POSTS AND BLOCKOUTS.

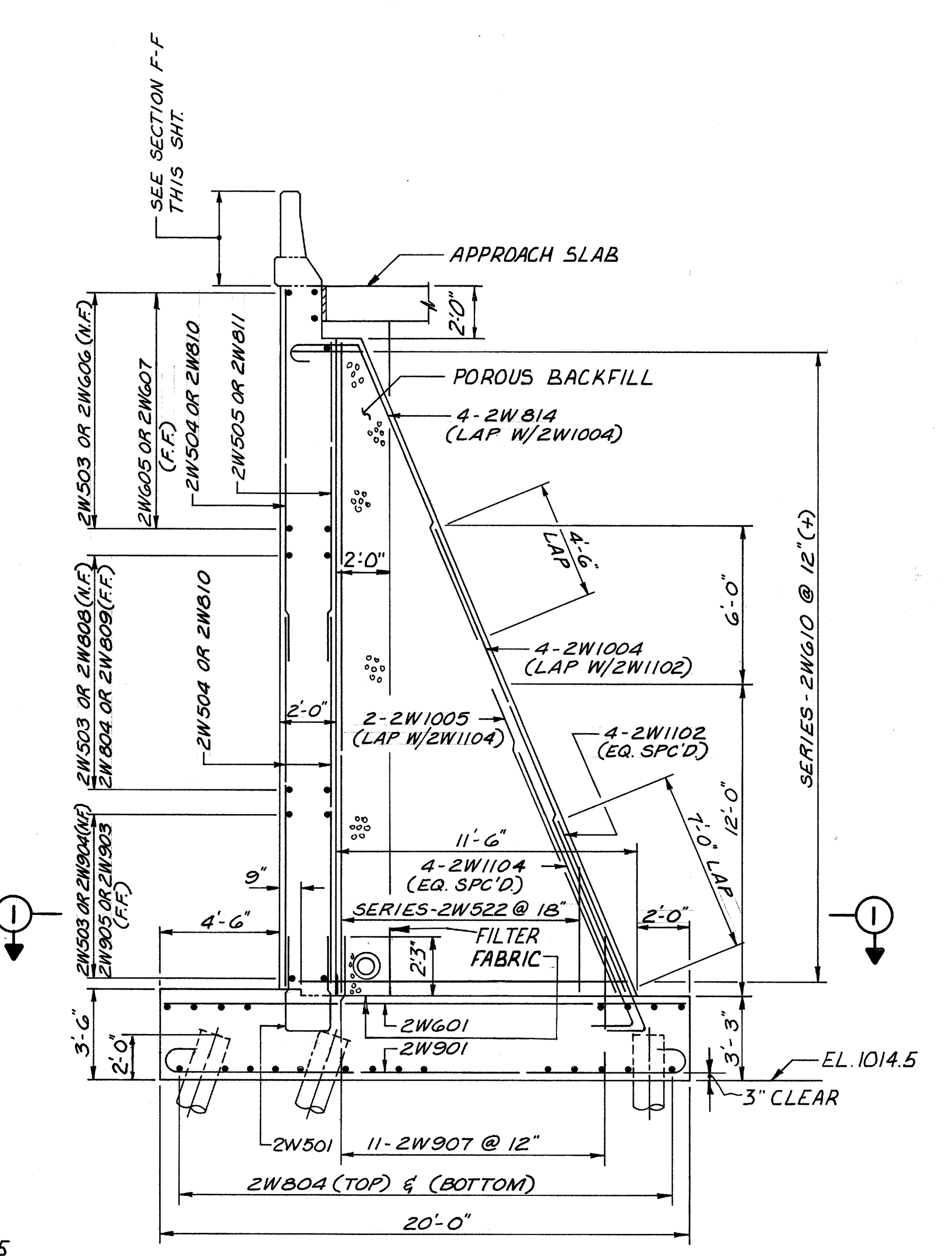
McCOY ASSOCIATES, INC. 35A/120
CONSULTING ENGINEERS
AKRON, OHIO

**NORTHWEST WINGWALL
PARAPET TRANSITION**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

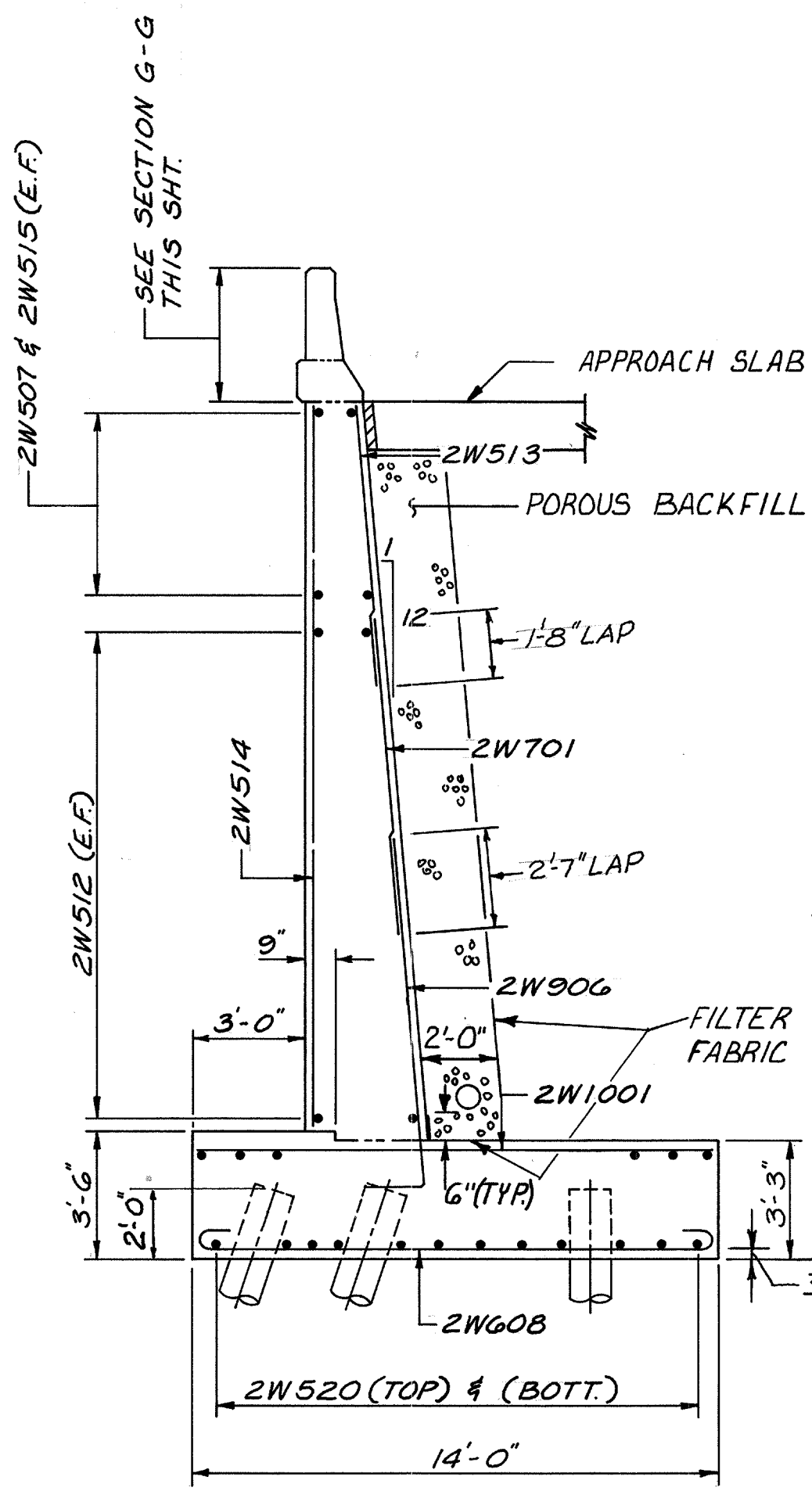
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
GCK	DAK		JGC	JBH	7-19-90	



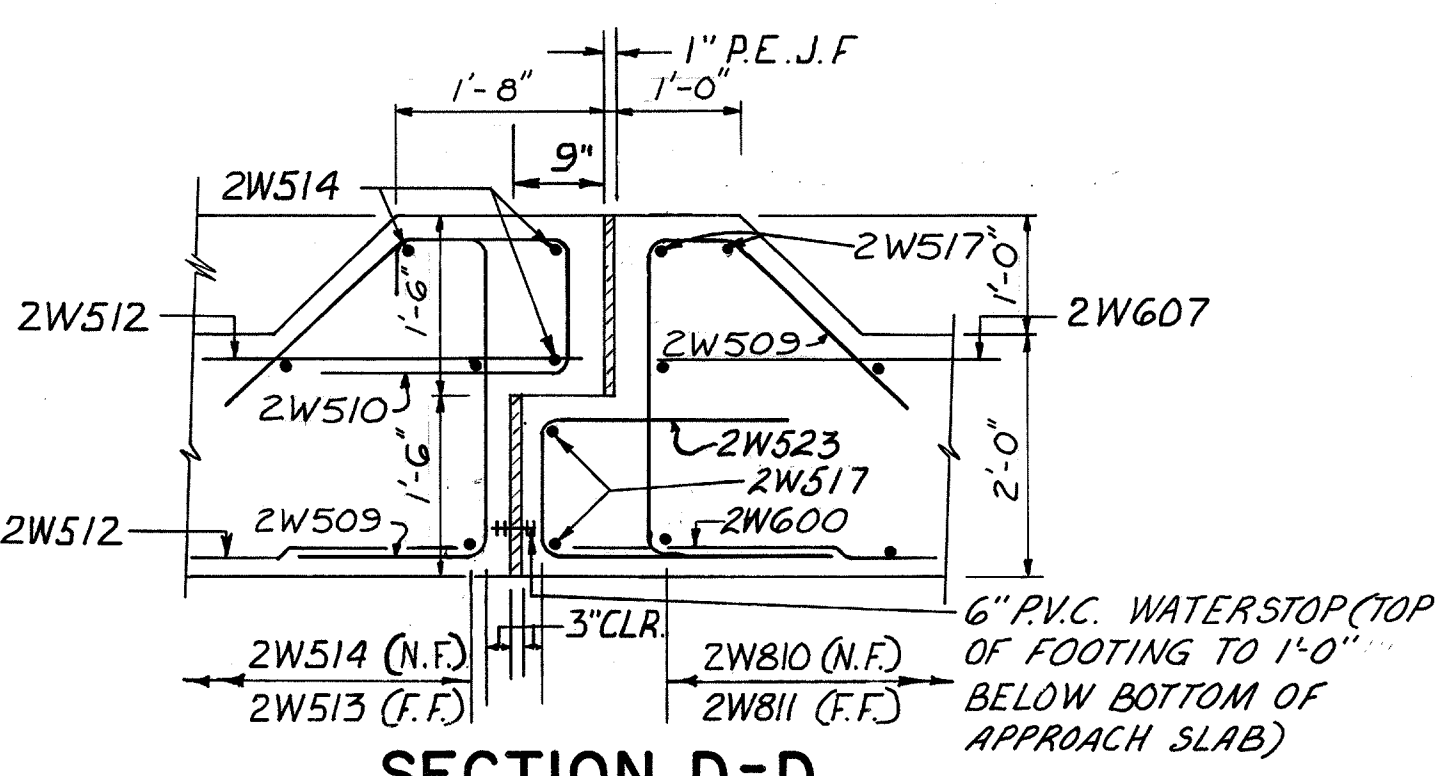
SECTION A-A



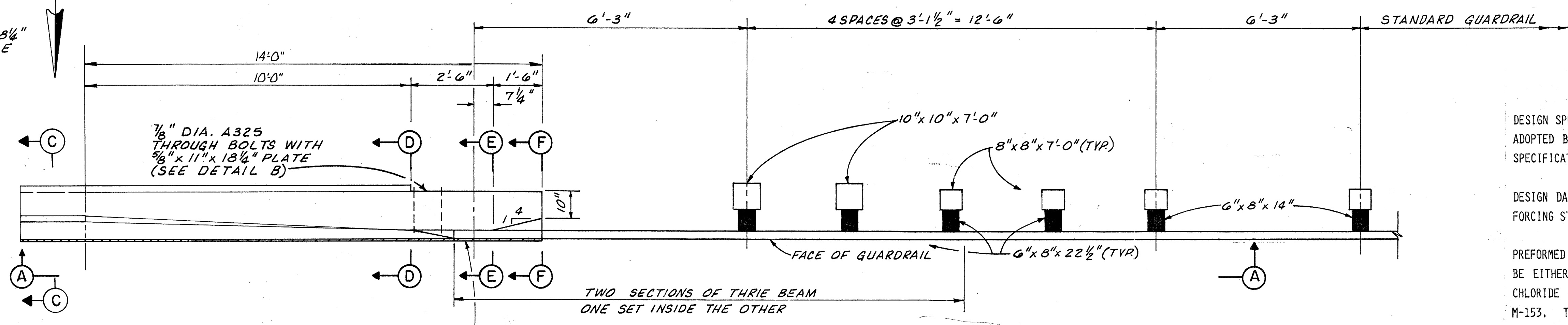
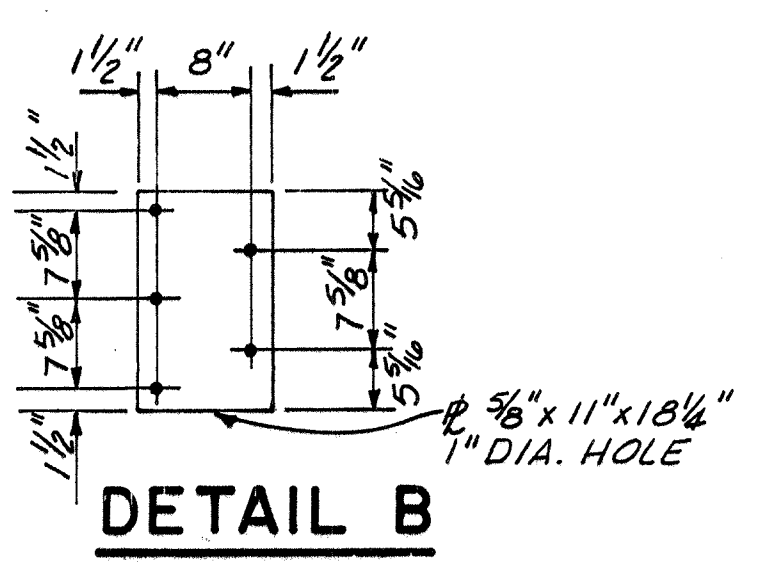
SECTION B-B



SECTION C-C

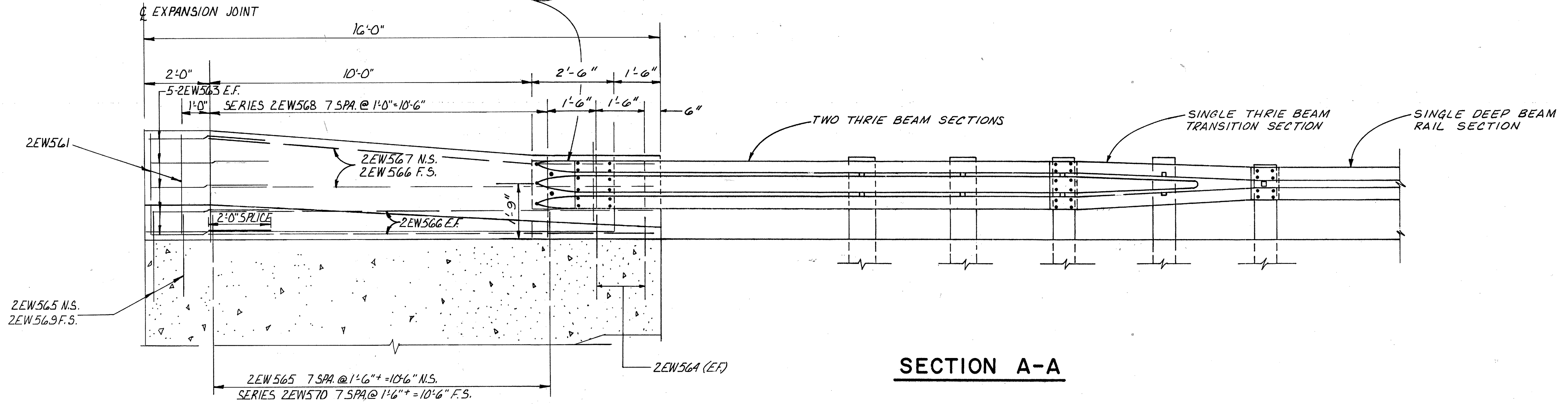


SUMMIT COUNTY
SUM 76-11.57

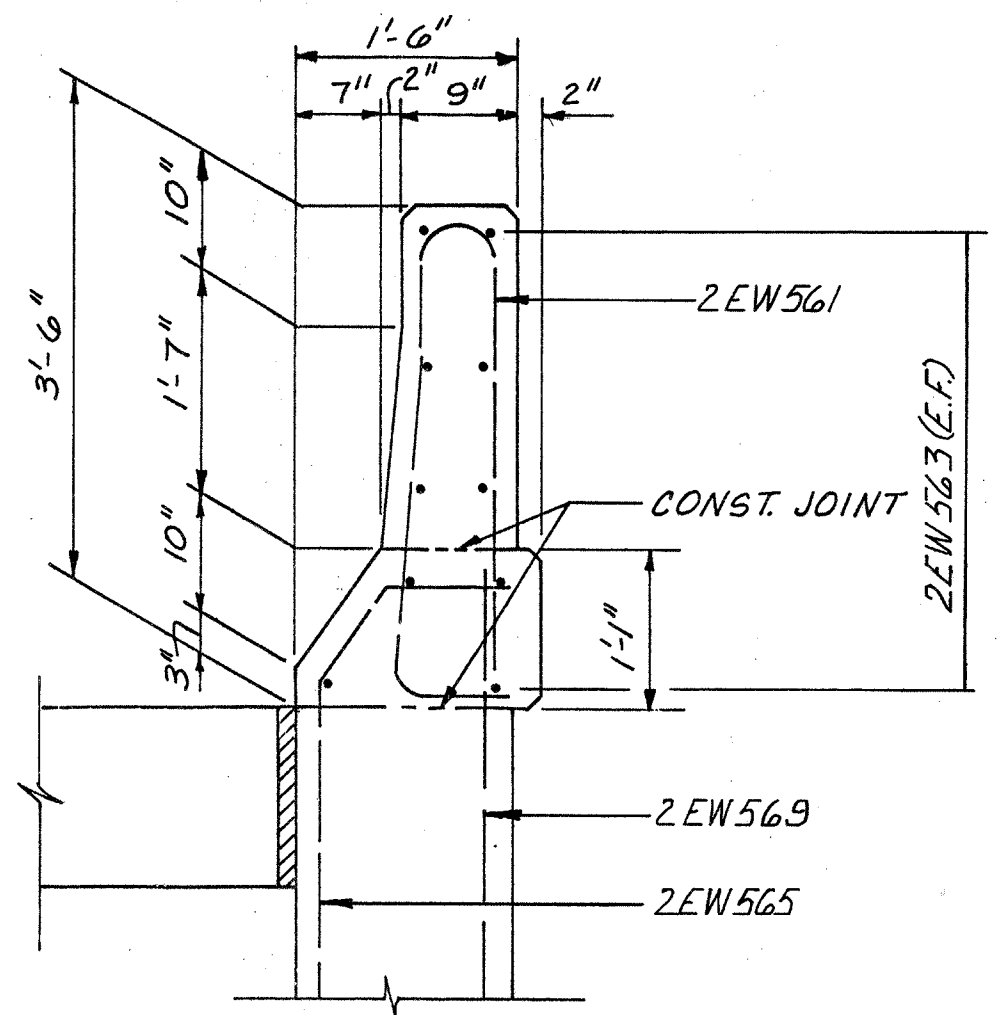


PART PLAN AT ABUTMENT

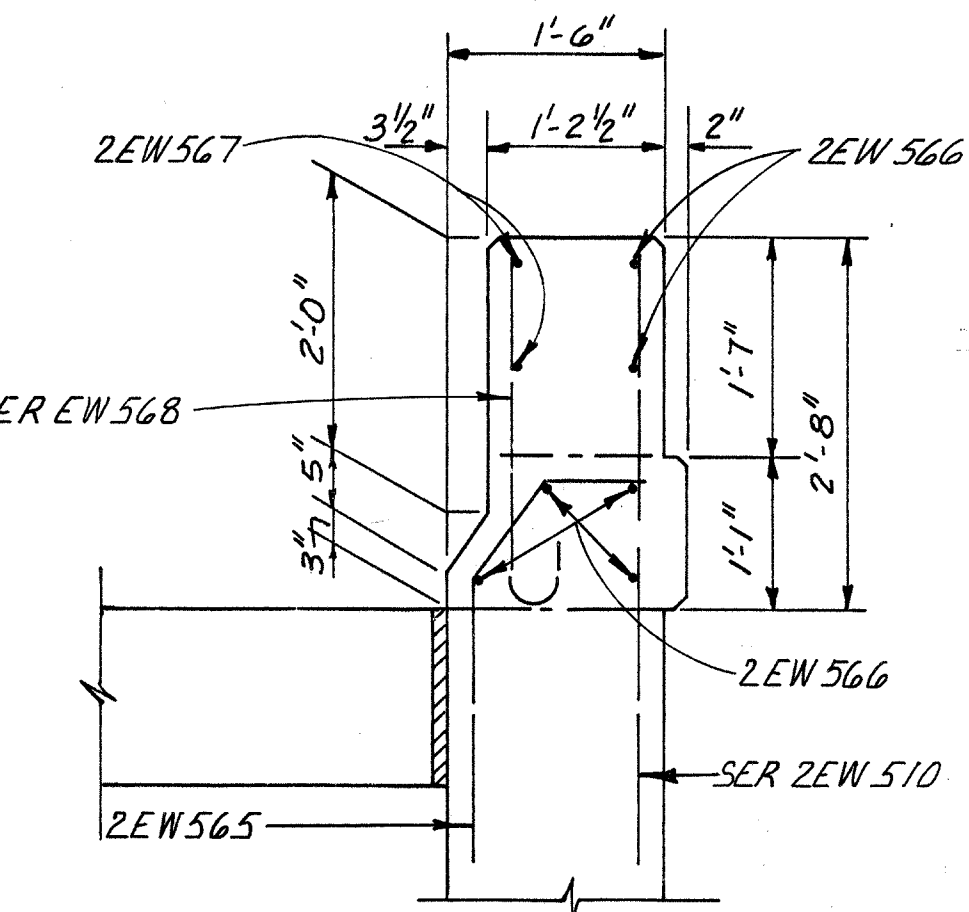
NOTE: THE THRIE BEAM TERMINAL CONNECTOR SHALL FIT UNDER THE STANDARD GUARDRAIL SECTION AT THE APPROACH END. ALL LAPS SHALL BE IN THE DIRECTION OF TRAFFIC.



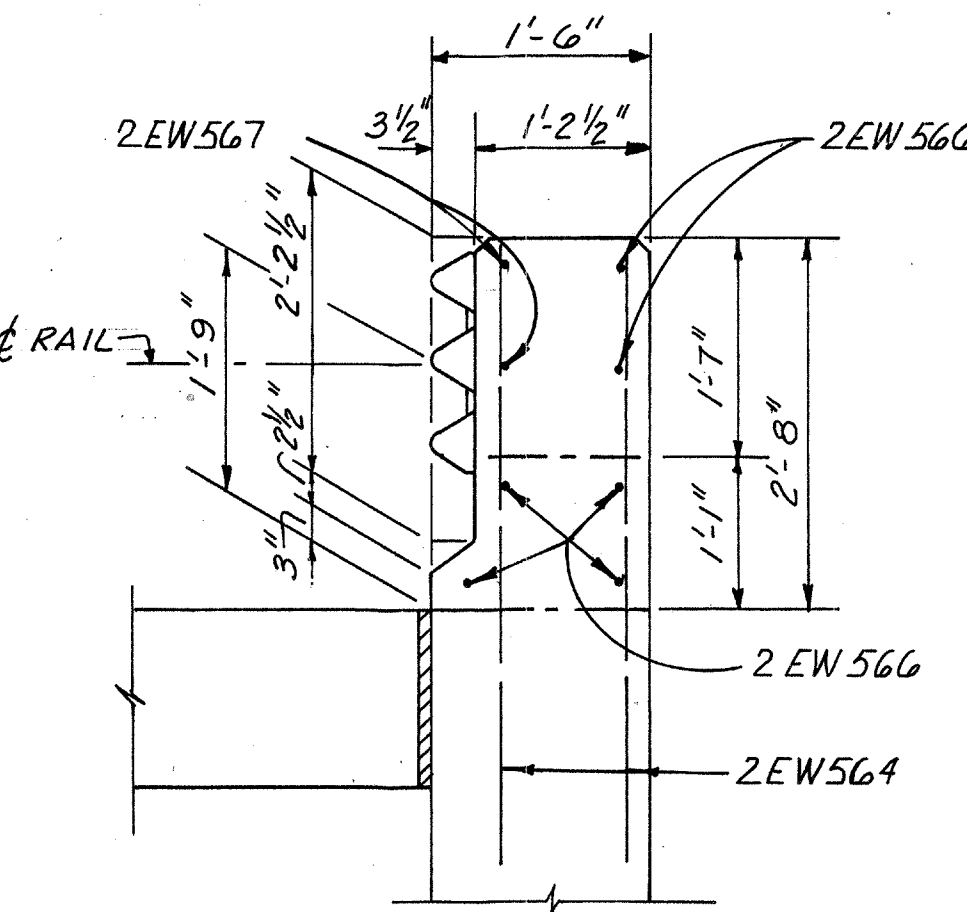
SECTION A-A



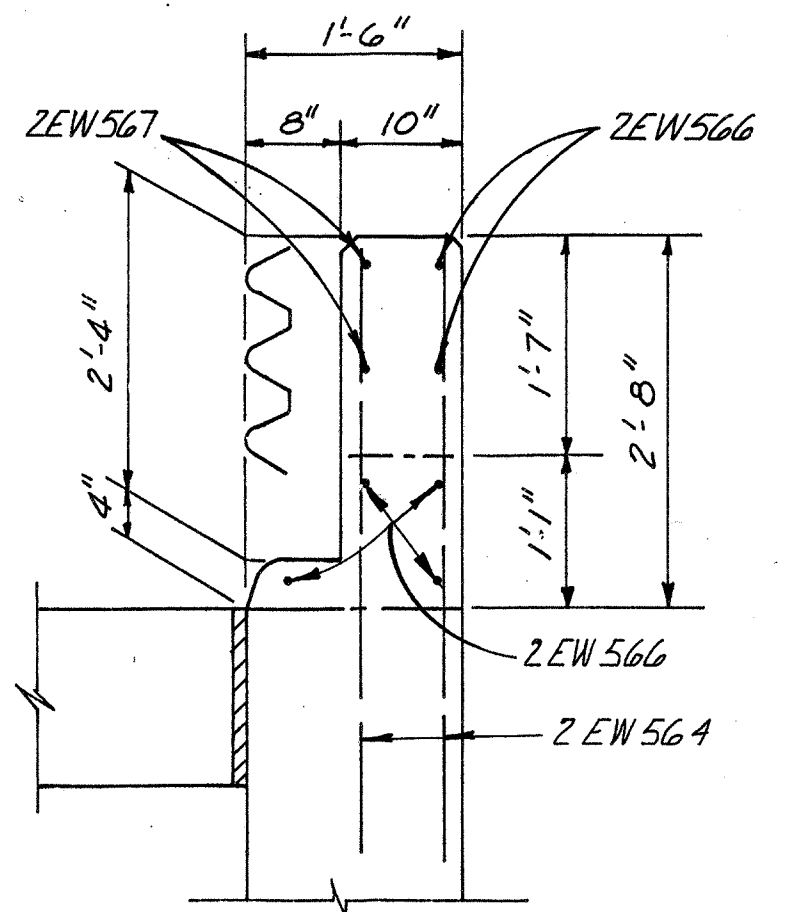
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

GENERAL NOTES

DESIGN SPECIFICATIONS: "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY AASHTO 1989, INCLUDING THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA: CONCRETE CLASS S $f'_c=4500$ P.S.I., $f'_t=1500$ P.S.I., REINFORCING STEEL ASTM A615, A616 OR A617 GRADE 60 $f_y=24,000$ P.S.I.

PREFORMED EXPANSION JOINT FILLER IN THE PARAPET DEFLECTION JOINTS MAY BE EITHER 1/4" GRAY SPONGE RUBBER OR 1/4" GRAY CELLULAR POLYVINYL CHLORIDE (PVC) SPONGE. SPONGE RUBBER FILLER SHALL CONFORM TO AASHTO M-153, TYPE I. DENSITY OF PVC SPONGE NOT BE LESS THAN 20 LBS. PER CU. FT.

DEFLECTION JOINTS SHALL BE SPACED AT 16'-0" CENTERS, MAX., EXCEPT THAT FOR CONTINUOUS STRUCTURES THE PANELS SHALL BE FURTHER SUBDIVIDED IN THE NEGATIVE MOMENT REGION (OVER THE PIERS) INTO LENGTHS OF NOT LESS THAN 5'-0" NOR MORE THAN 7'-6". REINFORCING BARS SHALL NOT EXTEND THROUGH DEFLECTION JOINTS.

CONCRETE PARAPETS ABOVE UPPER CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATE SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER REMOVAL OF BULKHEADS AND AFTER PLACEMENT OF EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF CONCRETE AND SHALL BE FREE OF MORTAR.

PAYMENT: ADDITIONAL GUARDRAIL COST IN EXCESS OF NORMAL GUARDRAIL COST, SUCH AS: TERMINAL CONNECTOR, STEEL PLATE, BOLTS, NUTS, PLATE WASHERS AND OTHER HARDWARE SHALL BE INCLUDED WITH BRIDGE TERMINAL ASSEMBLY FOR PAYMENT. QUANTITIES OF CONCRETE AND REINFORCING STEEL FOR PARAPET ARE INCLUDED WITH THEIR APPROPRIATE ITEM UNDER EITHER ABUTMENTS OR SUPERSTRUCTURE FOR PAYMENT.

POSTS SHALL BE SQUARE-SAWED PRESSURE TREATED WOOD AS PER 710.14. POSTS SHALL BE FABRICATED WITH SQUARE ENDS, BOLT HOLES SHALL BE BORED AND TOPS OF POSTS TRIMMED. IF REQUIRED, AFTER POSTS ARE SET, POSTS MAY BE SET IN DRILLED HOLES OR DRIVEN TO GRADE. STEEL POSTS AND BLOCKOUTS MAY BE FURNISHED AS AN ALTERNATE, PROVIDED THAT THE STRENGTH EQUALS OR EXCEEDS THE STRENGTH OF WOOD POSTS AND BLOCKOUTS.

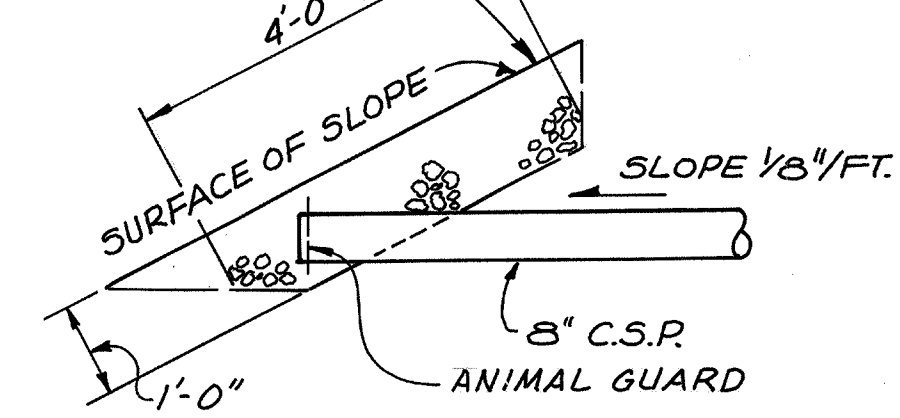
McCoy Associates, Inc.
CONSULTING ENGINEERS
AKRON, OHIO

**SOUTHWEST WINGWALL
PARAPET TRANSITION**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

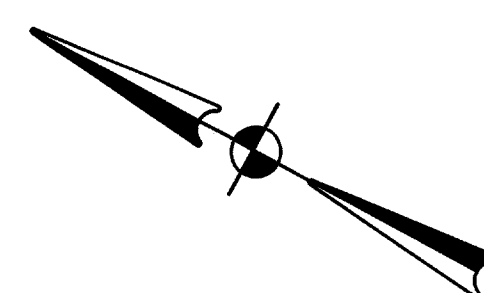
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
GCK	DAK		JGC	JBH	7-19-90	

**SUMMIT COUNTY
SUM 76-11.57**

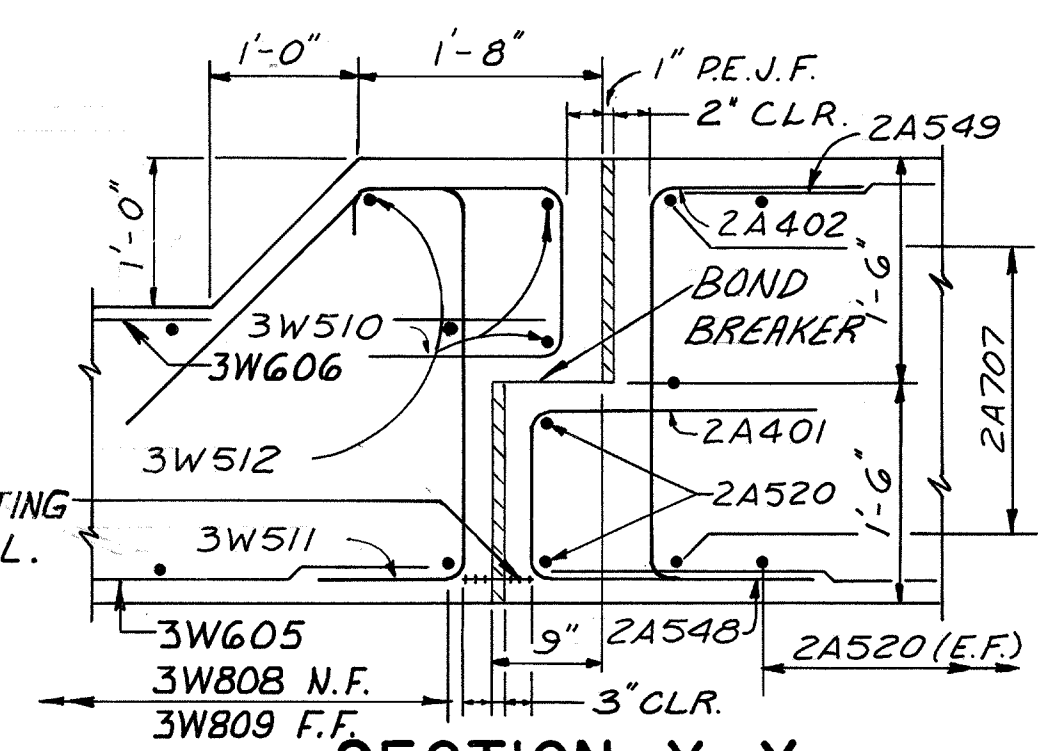
CRUSHED AGGREGATE SLOPE PROTECTION, INCLUDED IN ITEM 518 FOR PAYMENT.



DETAIL - A

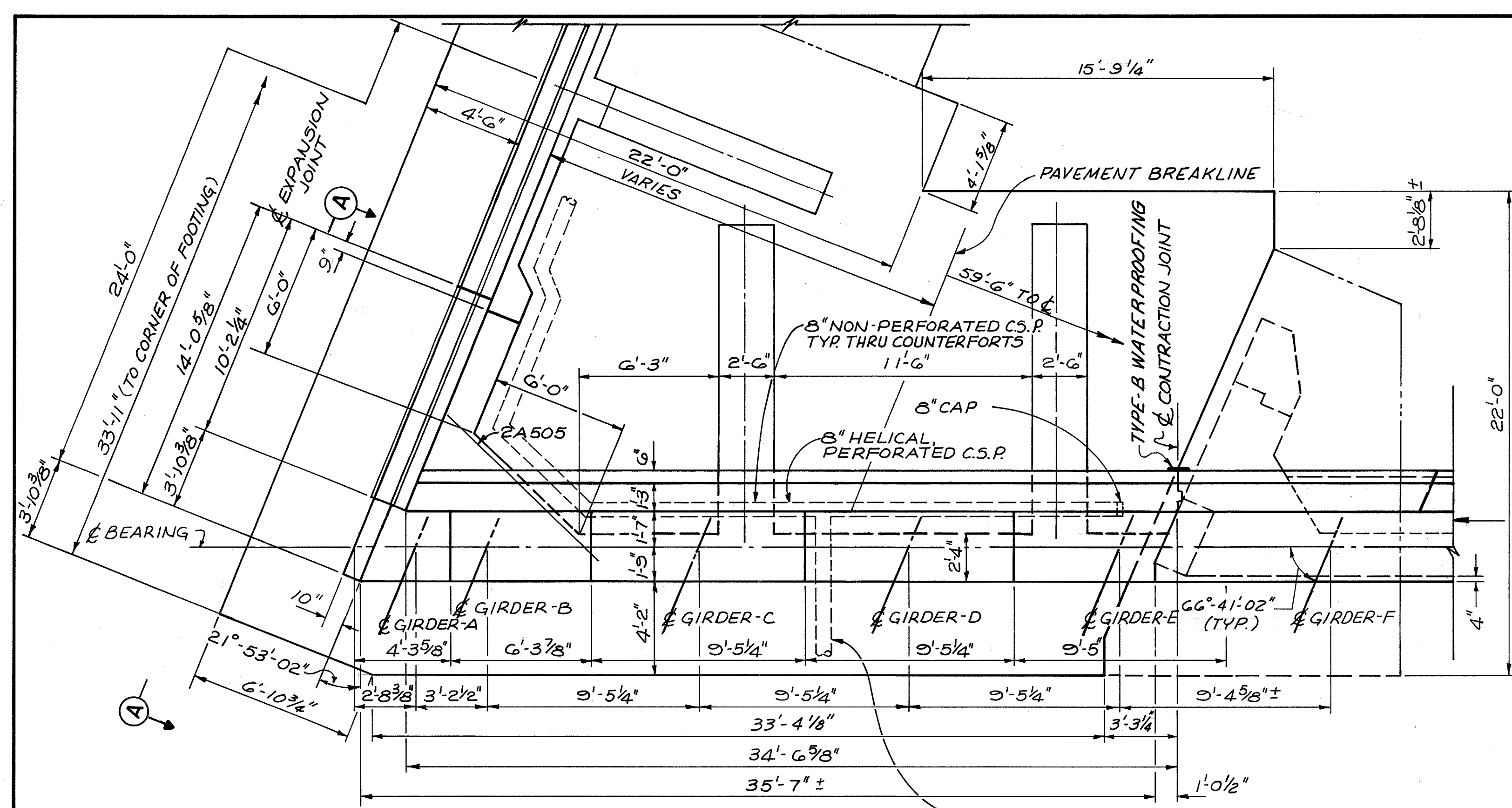


6" PVC WATER STOP. EXTEND FROM TOP OF FOOTING TO 1'-0" BELOW TOP OF WALL.



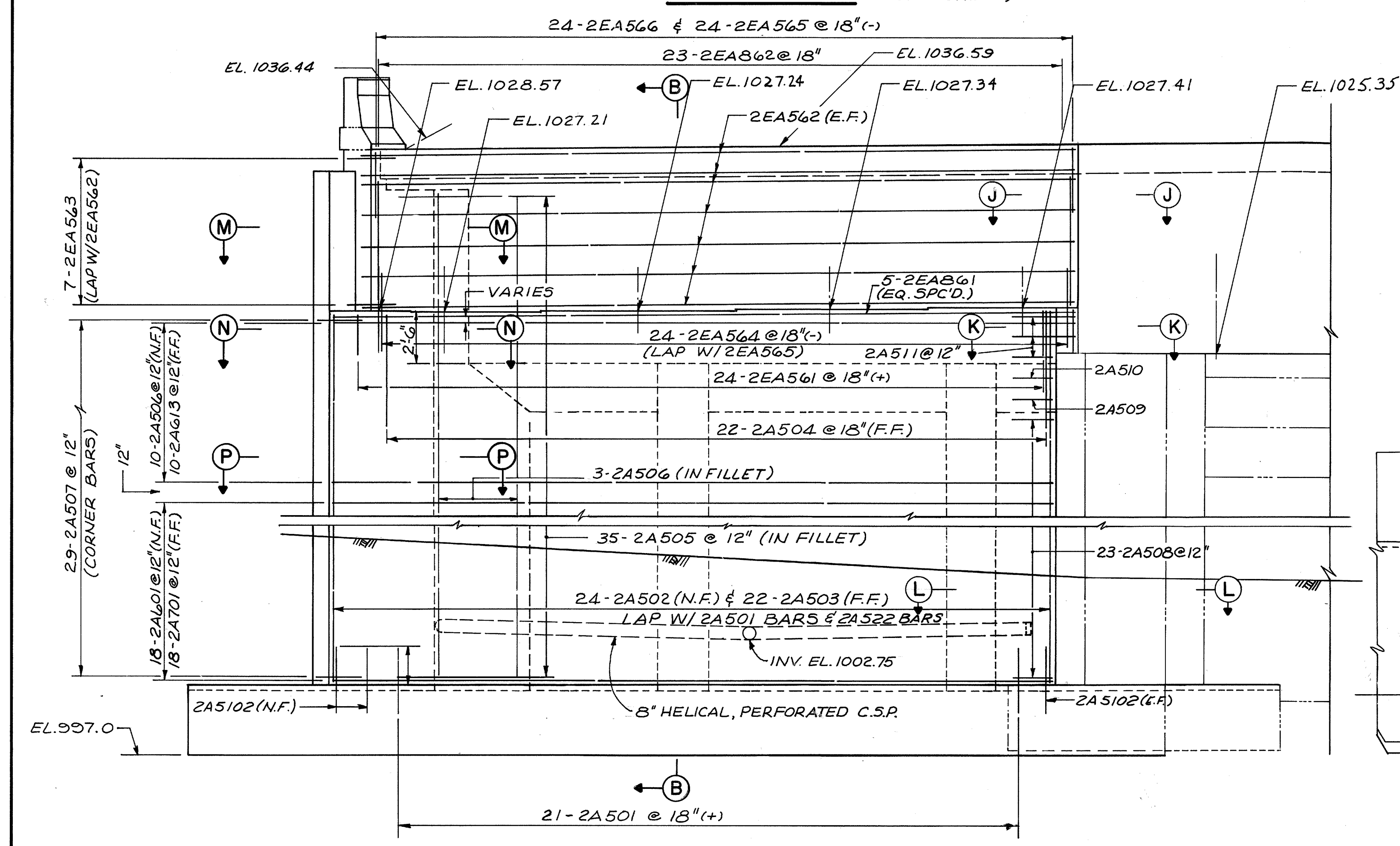
SECTION X-X

FOR CONTINUATION SEE SHEET 39/120

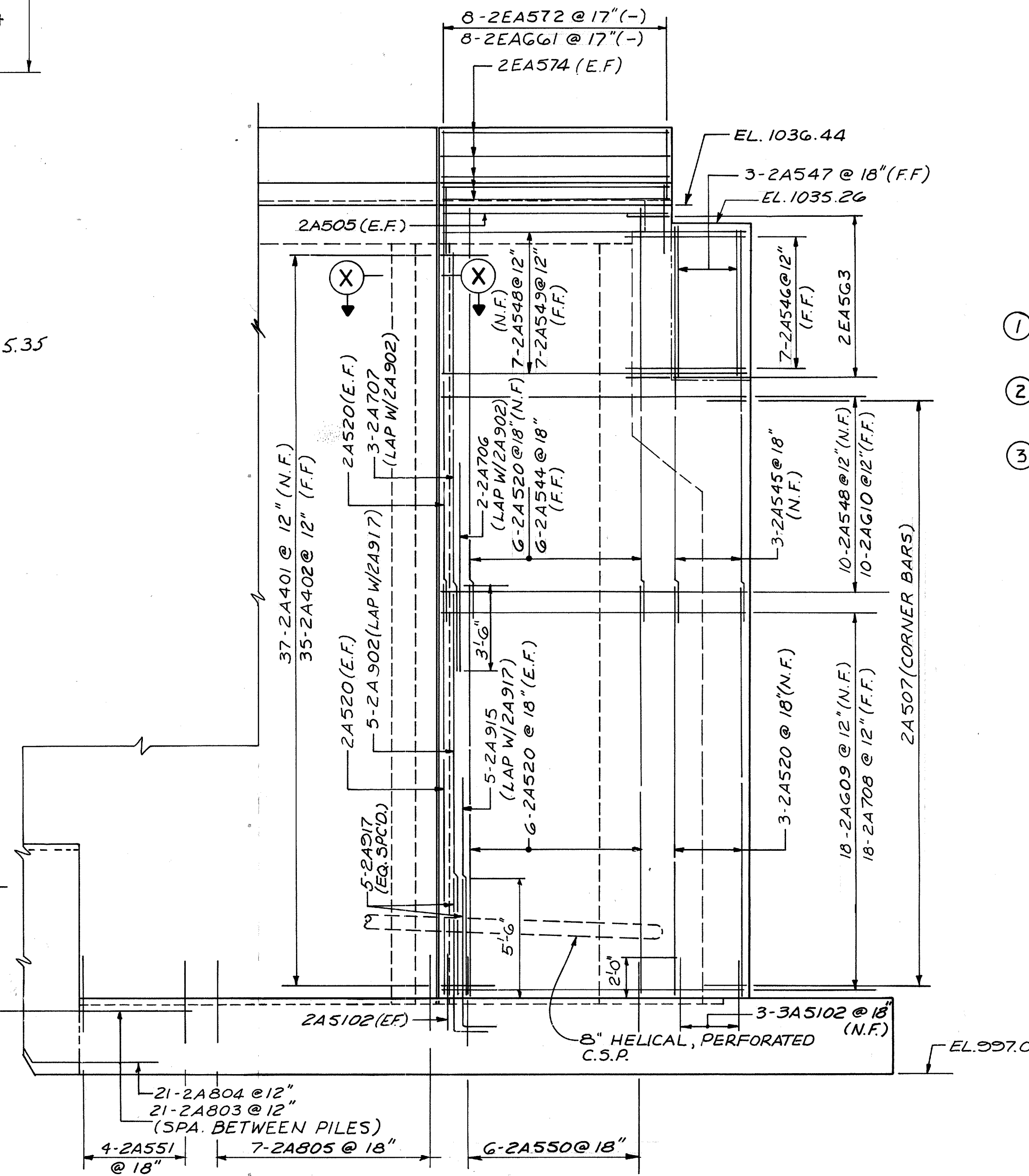


PART PLAN

8" HELICAL, NON-PERFORATED C.S.P. TO SLOPE (SEE DETAIL-A THIS SHEET)



ELEVATION



VIEW A-A

NOTES

- 1 SEE SHEET 46/120 FOR FOOTING DETAILS.
- 2 SEE SHEETS 42/120 & 43/120 FOR ADDITIONAL DETAILS.
- 3 SEE NOTES 1-3, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 38/120
CONSULTING ENGINEERS
AKRON, OHIO

EAST ABUTMENT DETAILS

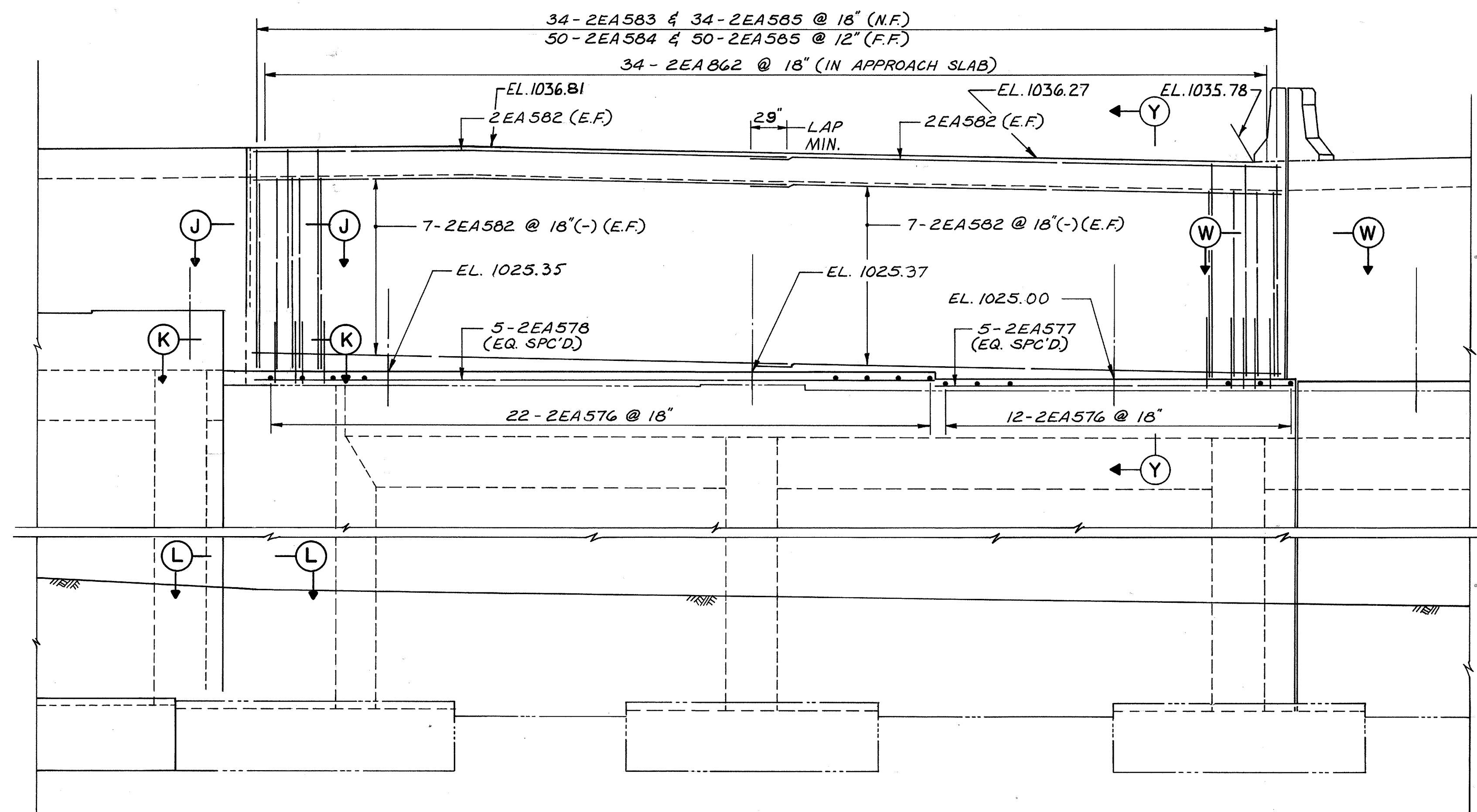
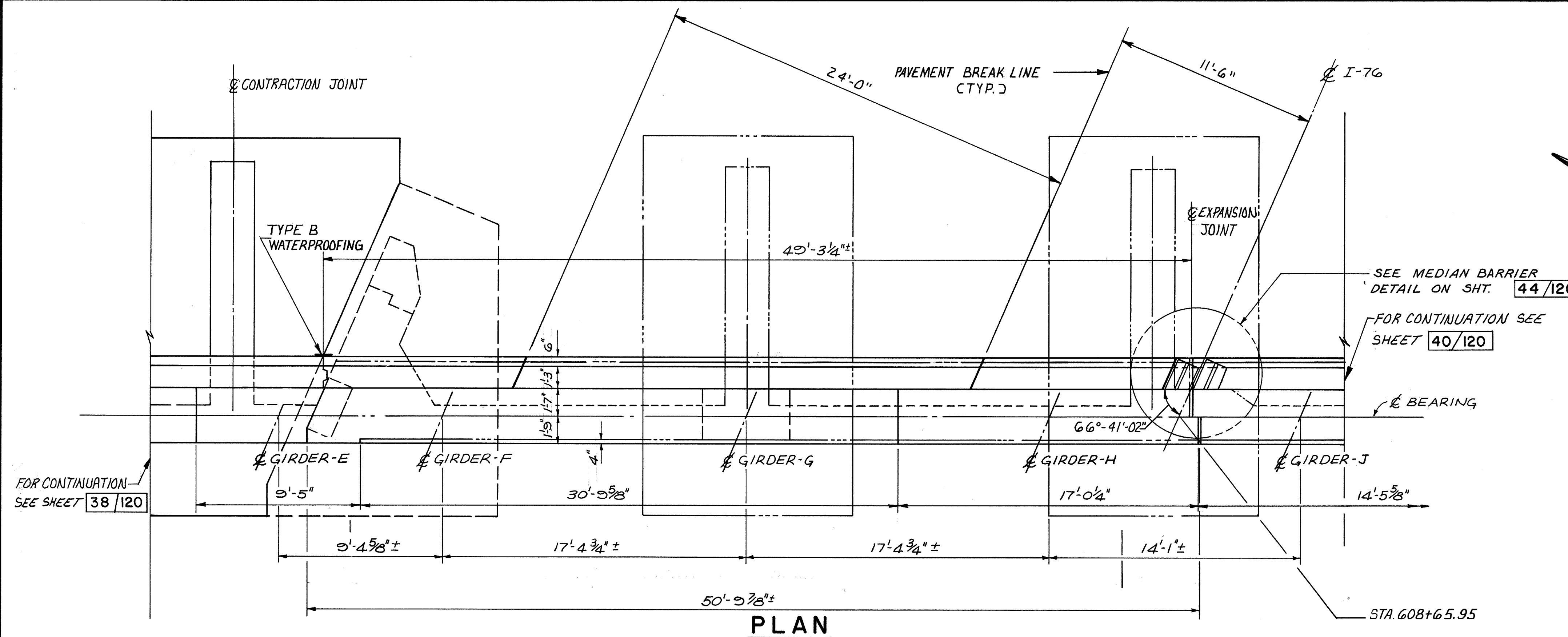
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	DAK JDP		JMH	JBH	3-31-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

981
1214

SUMMIT COUNTY
SUM 76-11.57



NOTES

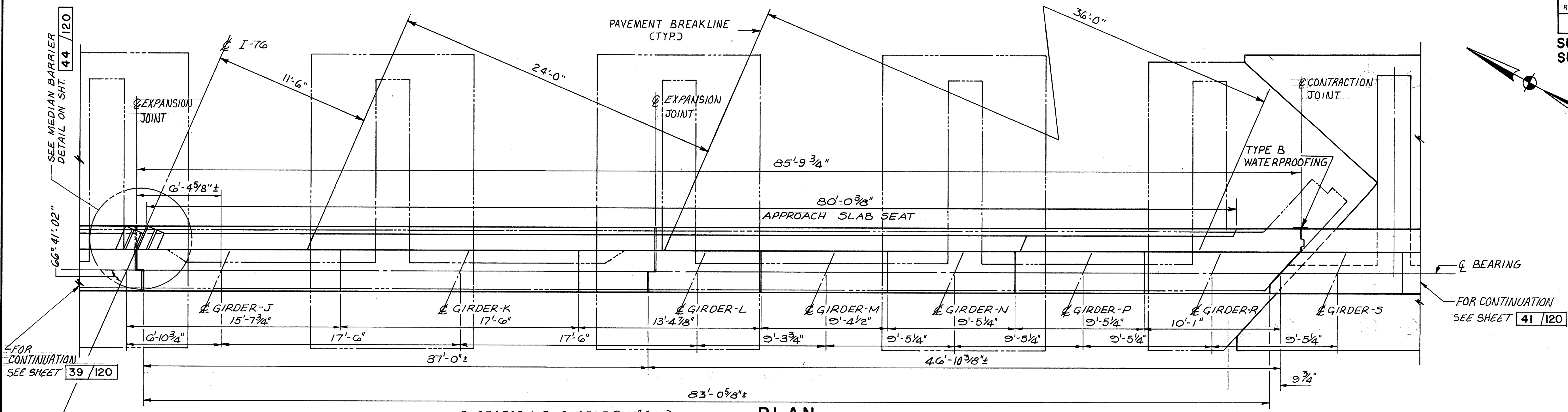
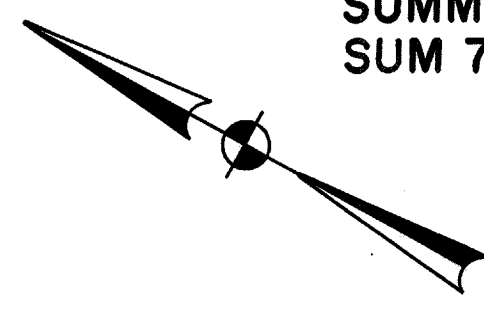
- ① SEE SHEETS 43/120 & 44/120 & 45/120 FOR ADDITIONAL DETAILS.
- ② SEE NOTES 1-3, SHEET 25/120 FOR ADDITIONAL NOTES

McCOY ASSOCIATES INC. 39/120
CONSULTING ENGINEERS
AKRON, OHIO

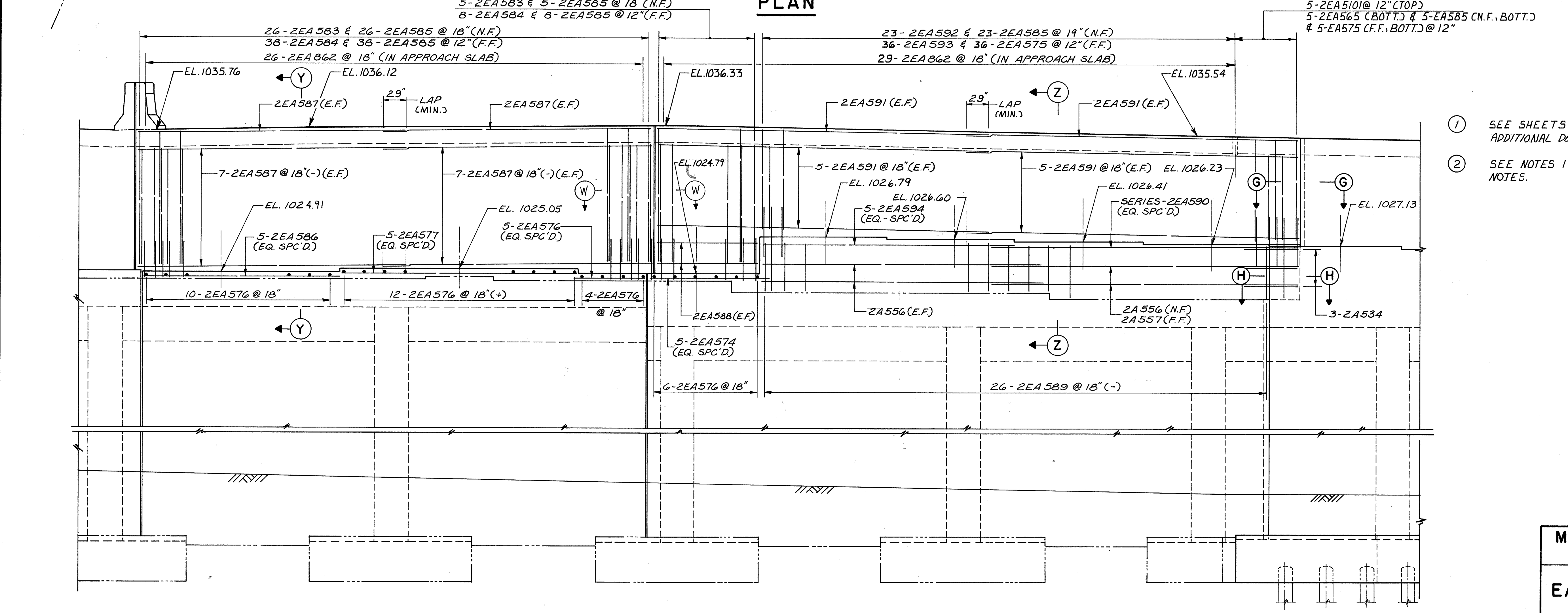
EAST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	DAK JDP		JMH	JBH	3-31-89	



PLAN



ELEVATION

NOTES

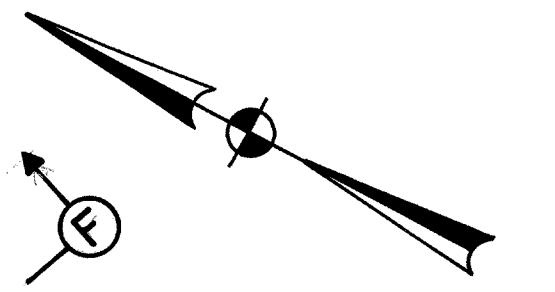
- ① SEE SHEETS 42/120, 44/120 & 45/120 FOR ADDITIONAL DETAILS.
- ② SEE NOTES 1-3, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 40/120
CONSULTING ENGINEERS
AKRON, OHIO

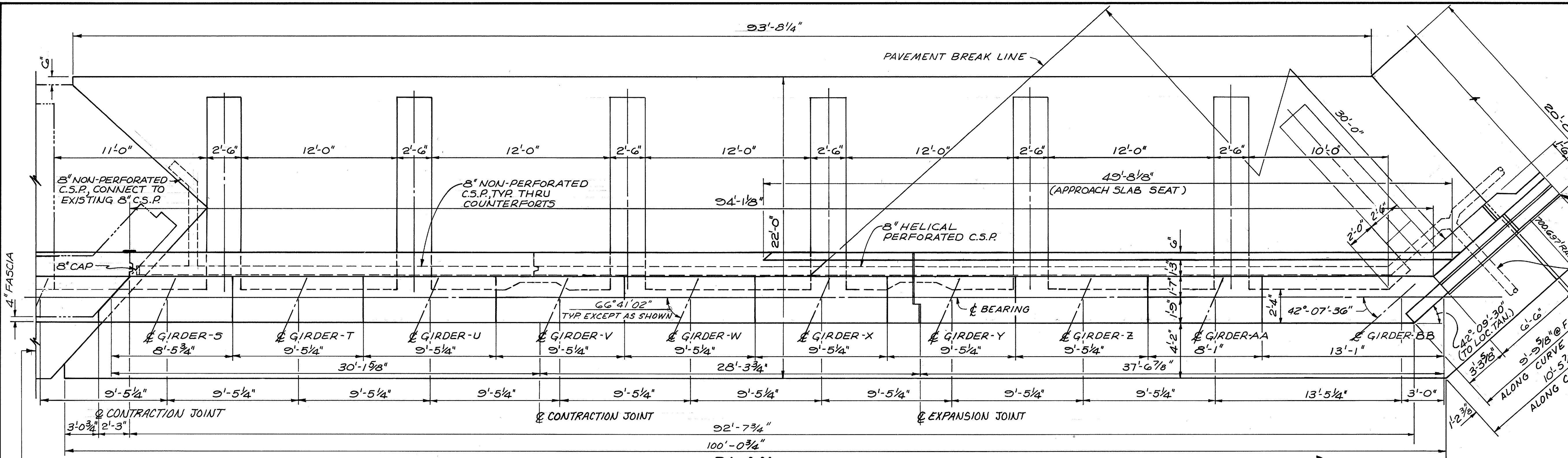
EAST ABUTMENT DETAILS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.R.		J.M.H.	J.B.H.	3-31-89	

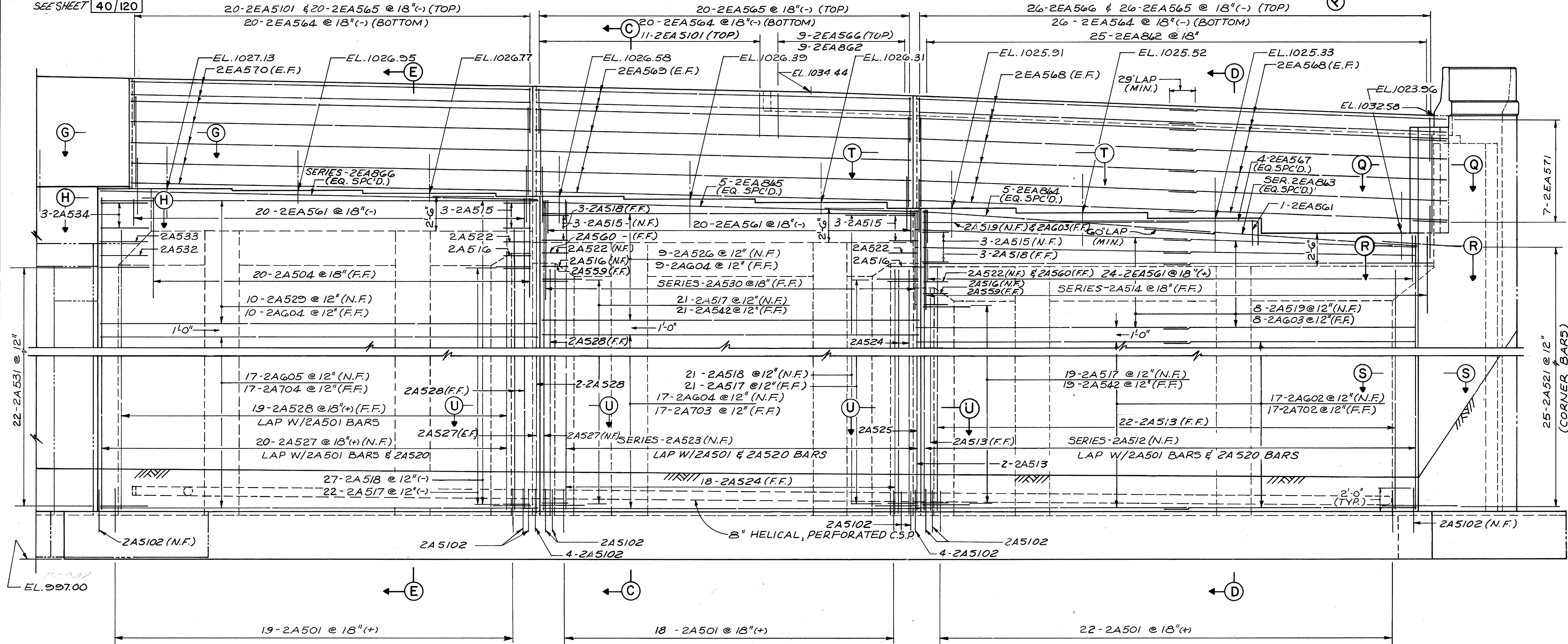
SUMMIT COUNTY
SUM 76-11.57



FOR CONTINUATION SEE SHEET 50/120



PLAN



ELEVATION

NOTES

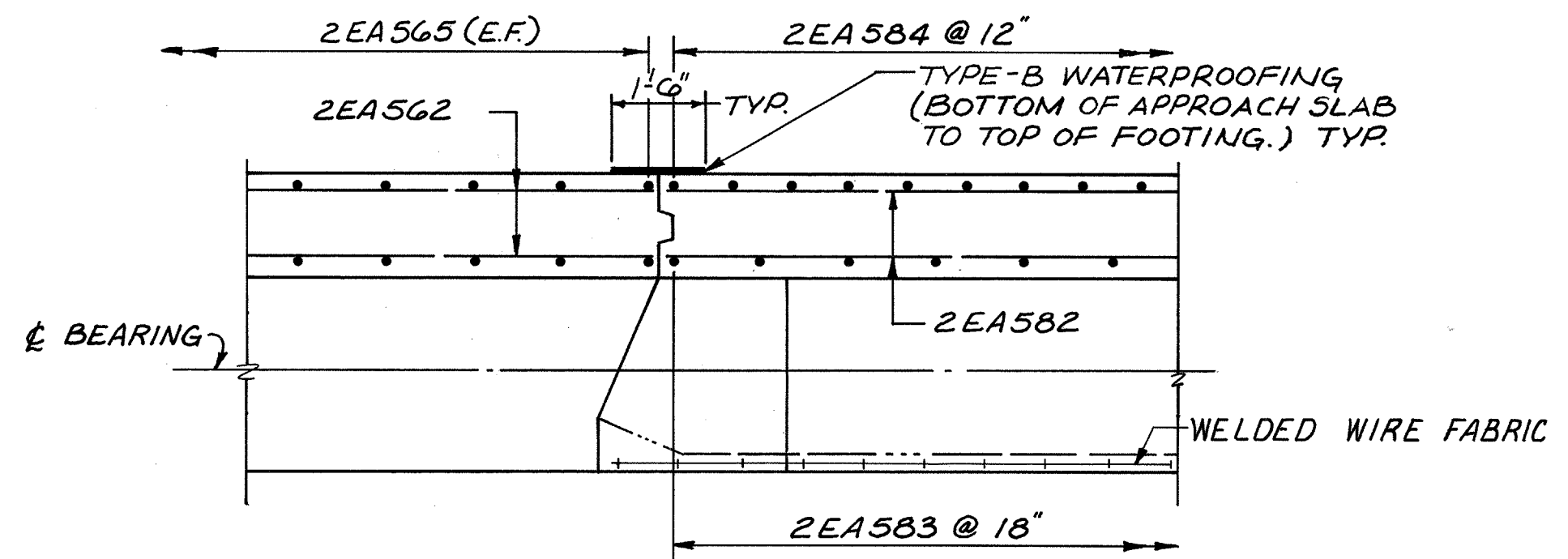
- ① SEE SHEET 47/120 FOR FOOTING DETAILS.
- ② SEE NOTES 1-3 SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 41/120
CONSULTING ENGINEERS
AKRON, OHIO

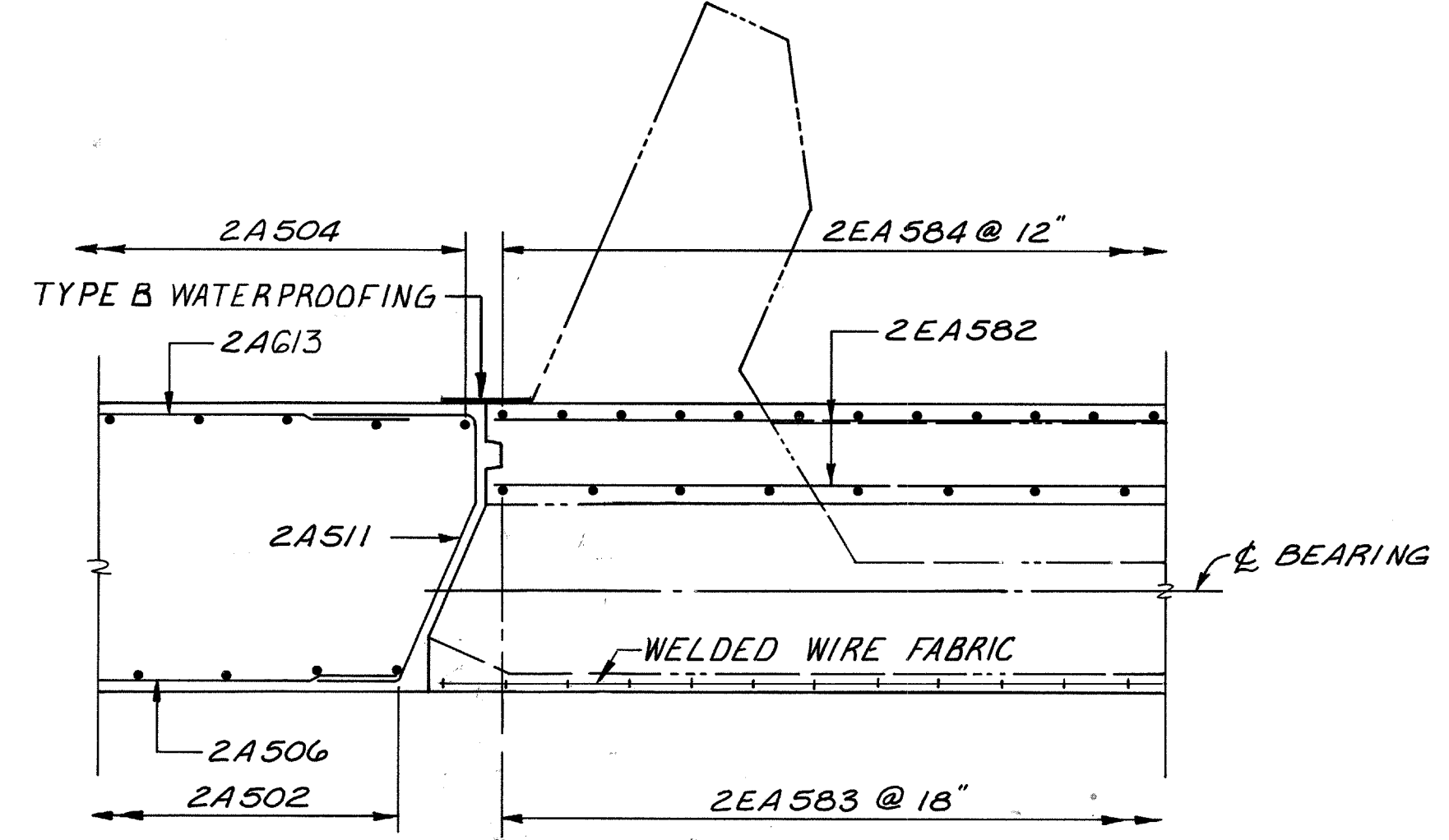
EAST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

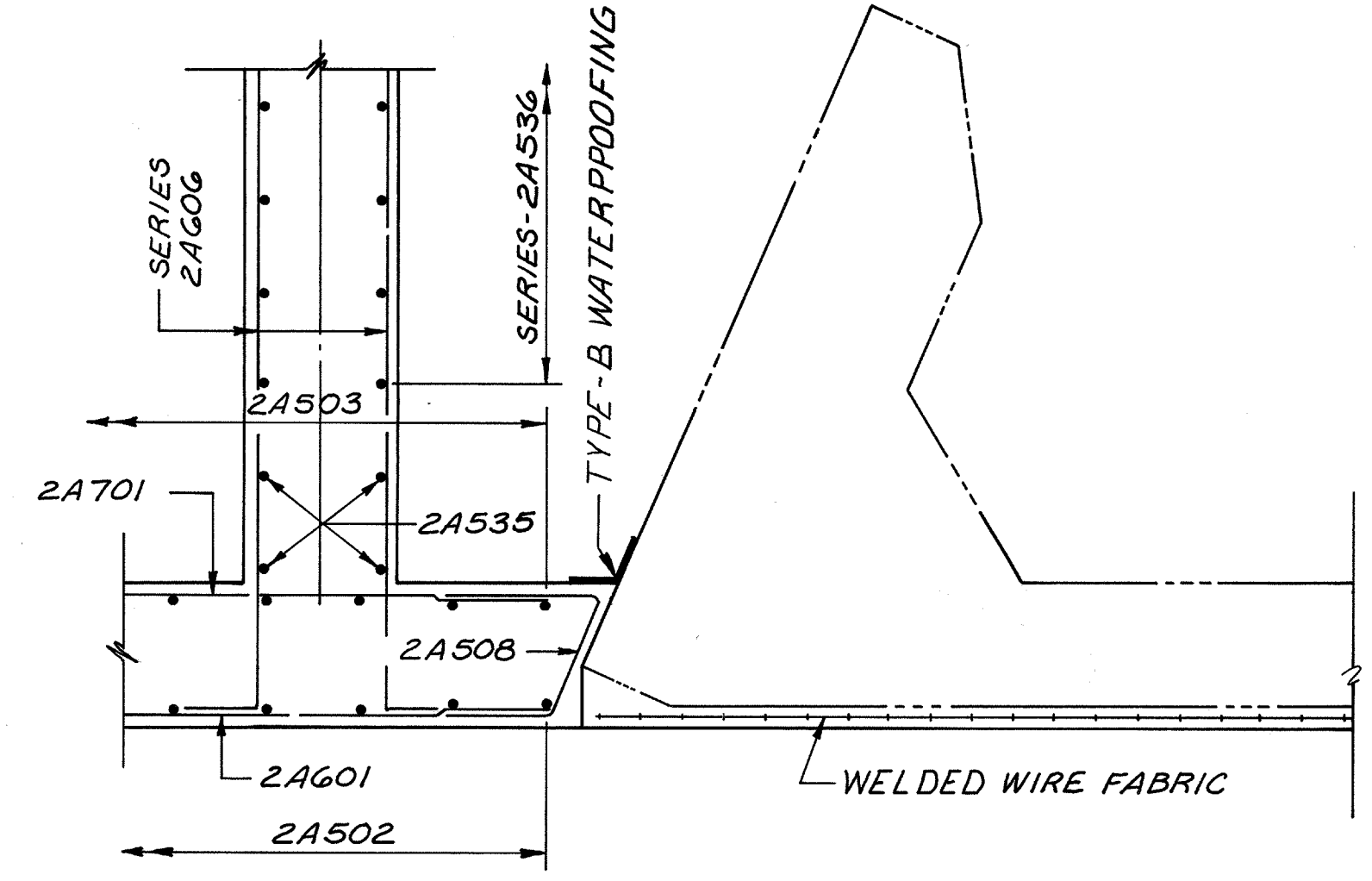
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.P.		JMH	JBR	3-31-89	



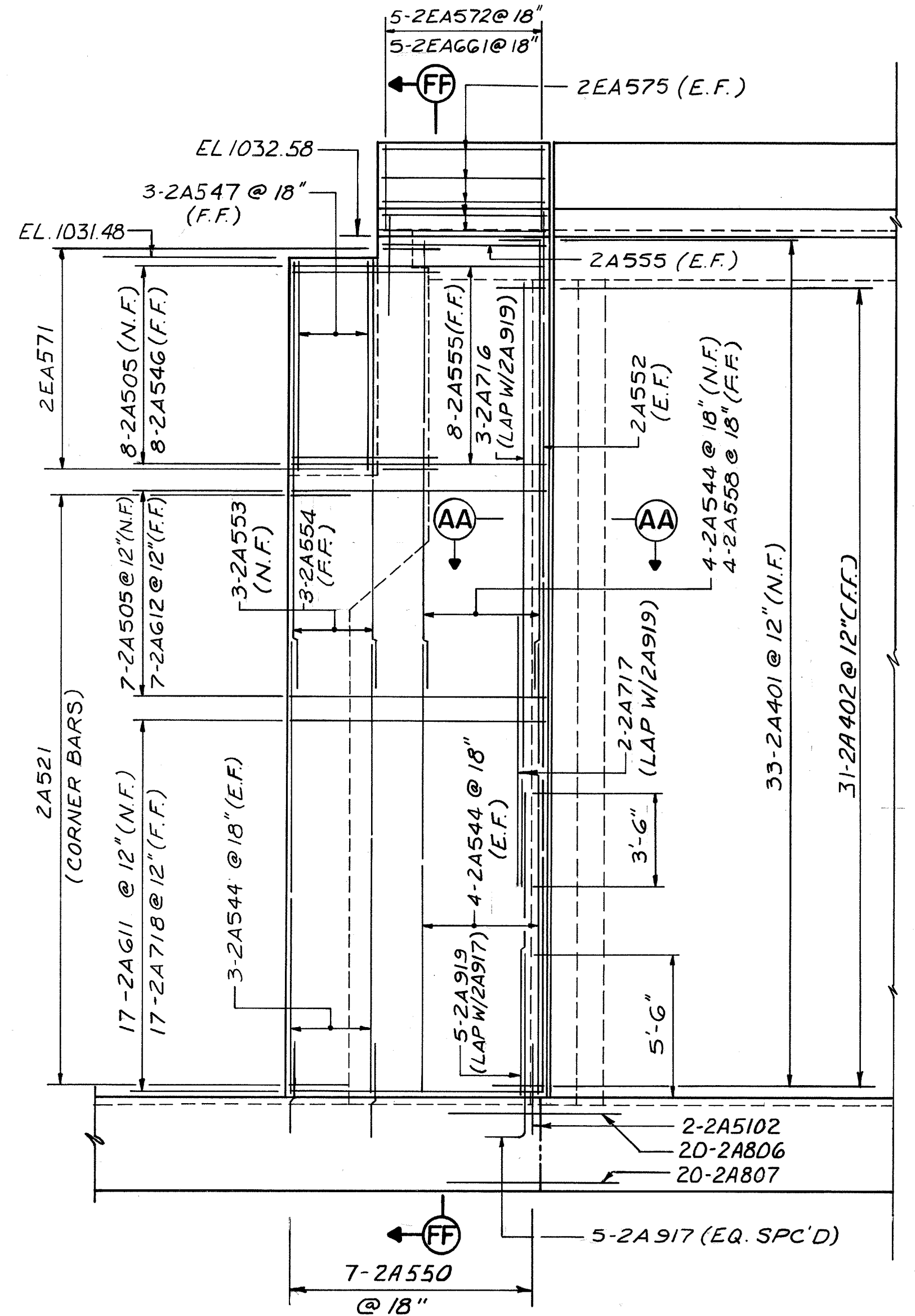
SECTION J-J



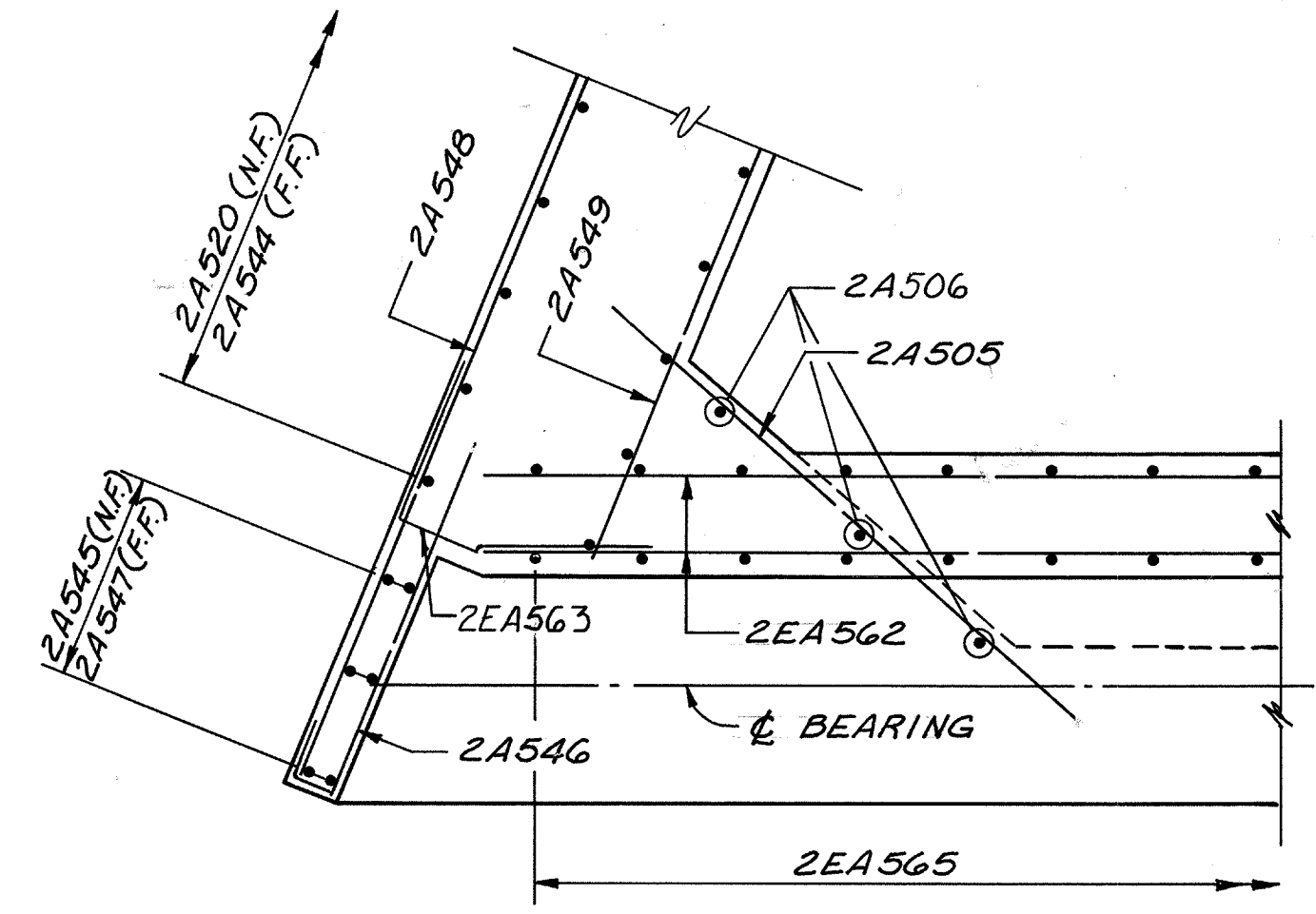
SECTION K-K



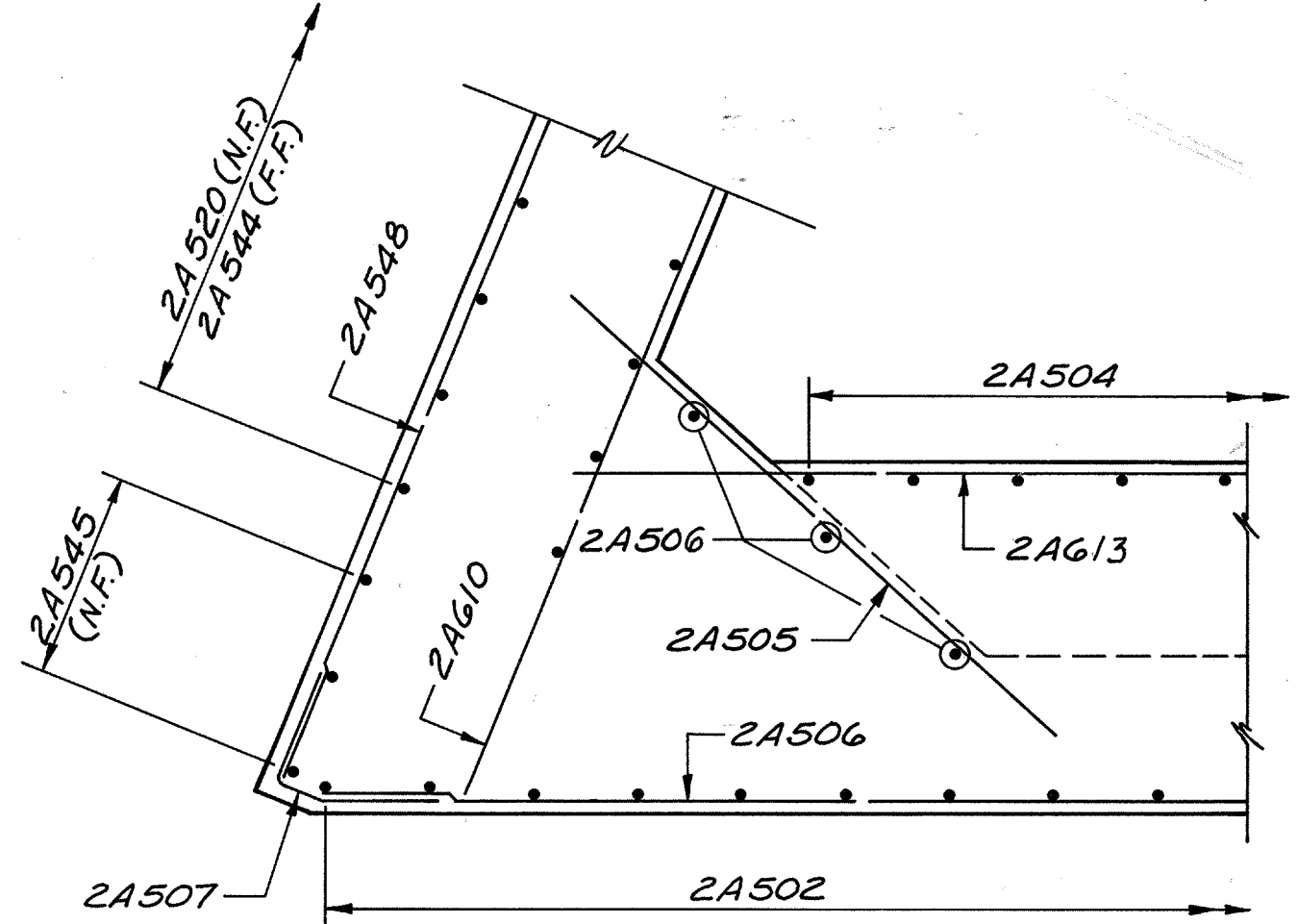
SECTION L-L



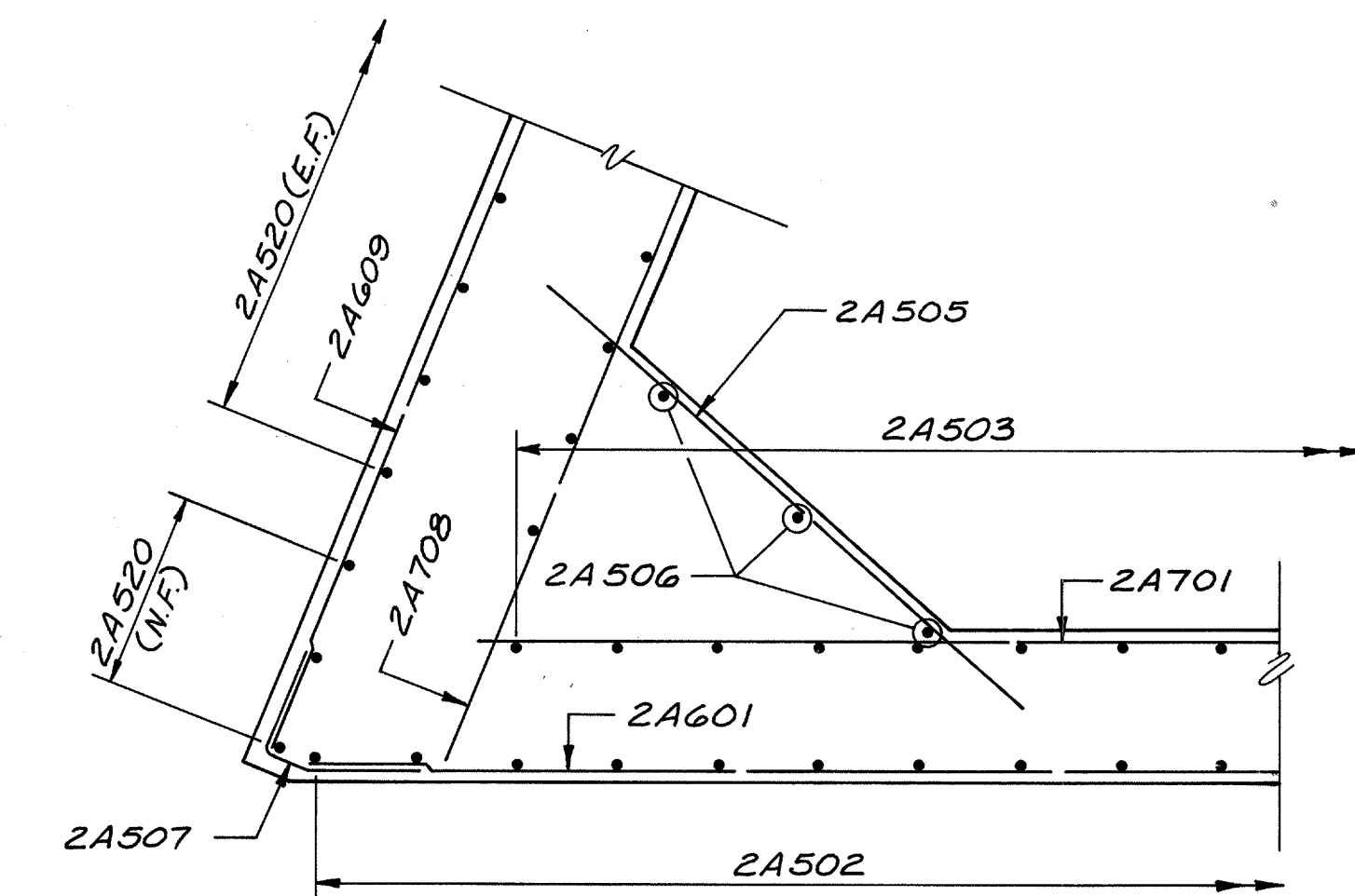
VIEW F-F



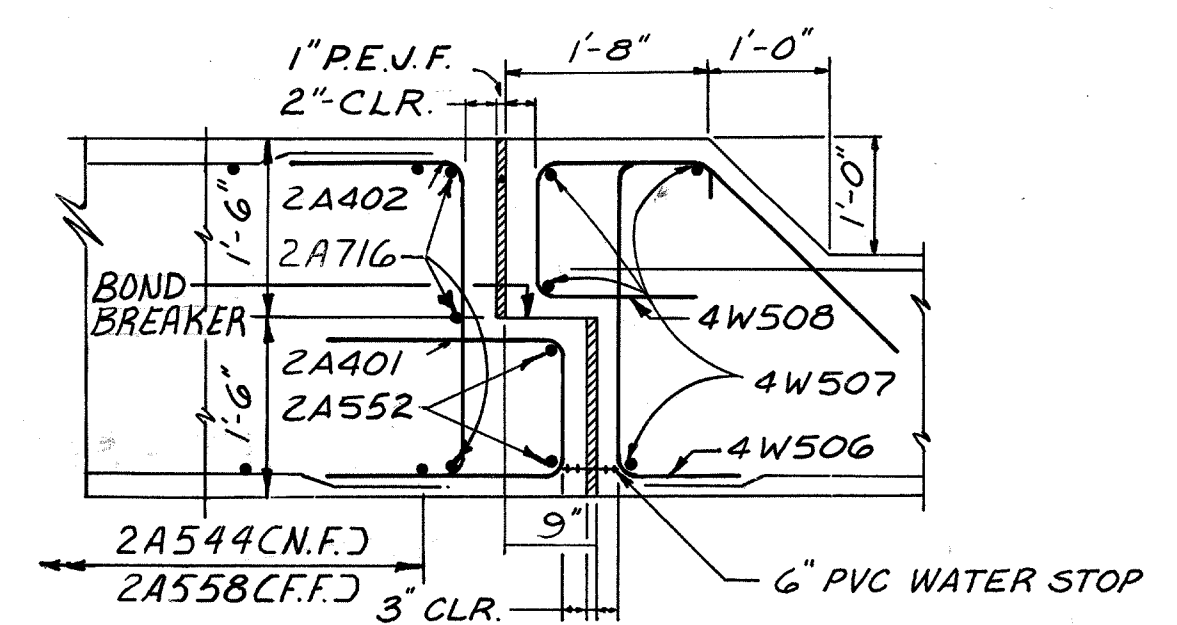
SECTION M-M



SECTION N-N



SECTION P-P



SECTION AA-AA

NOTES

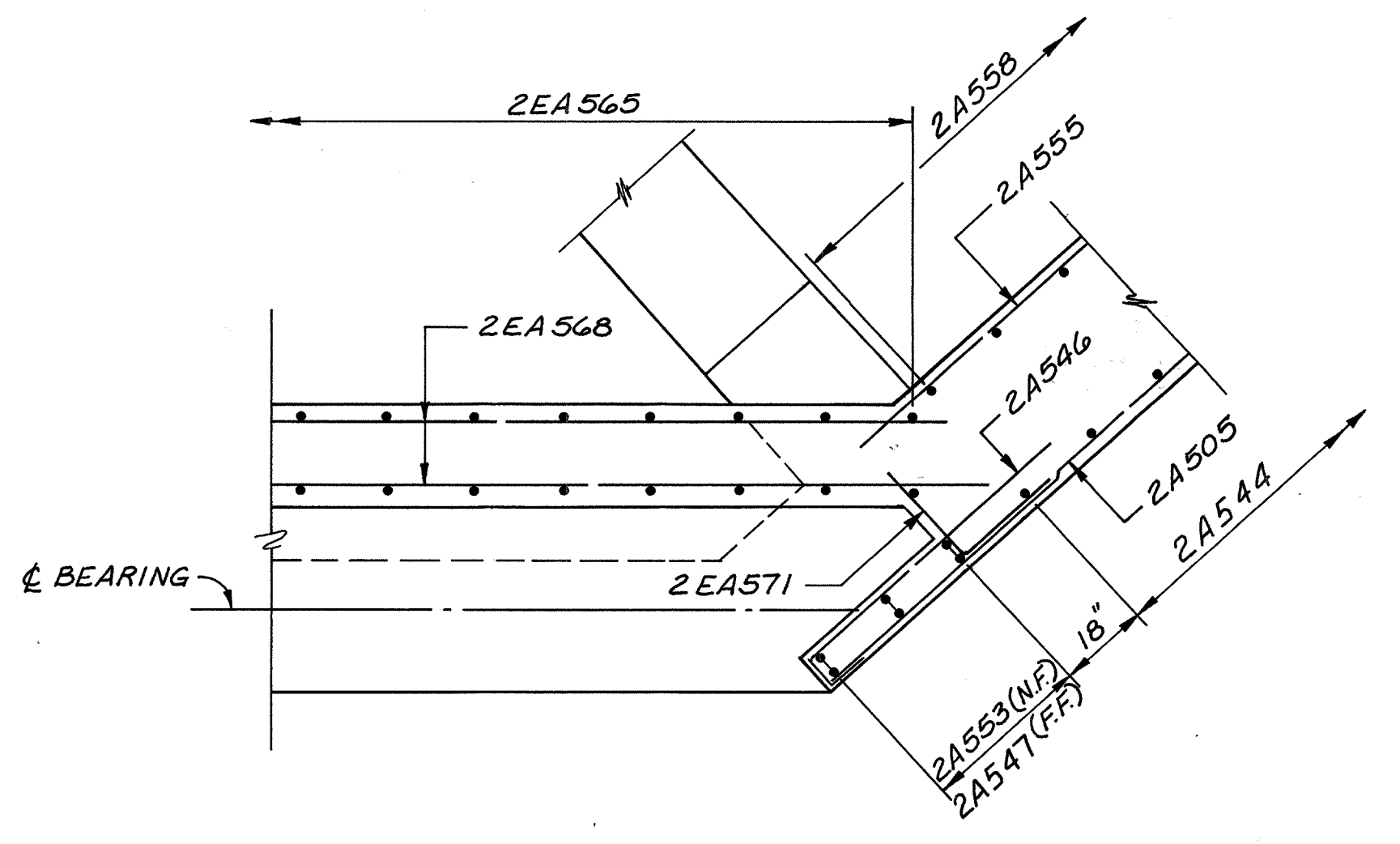
① SEE NOTES 1&2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 43/120
CONSULTING ENGINEERS
AKRON, OHIO

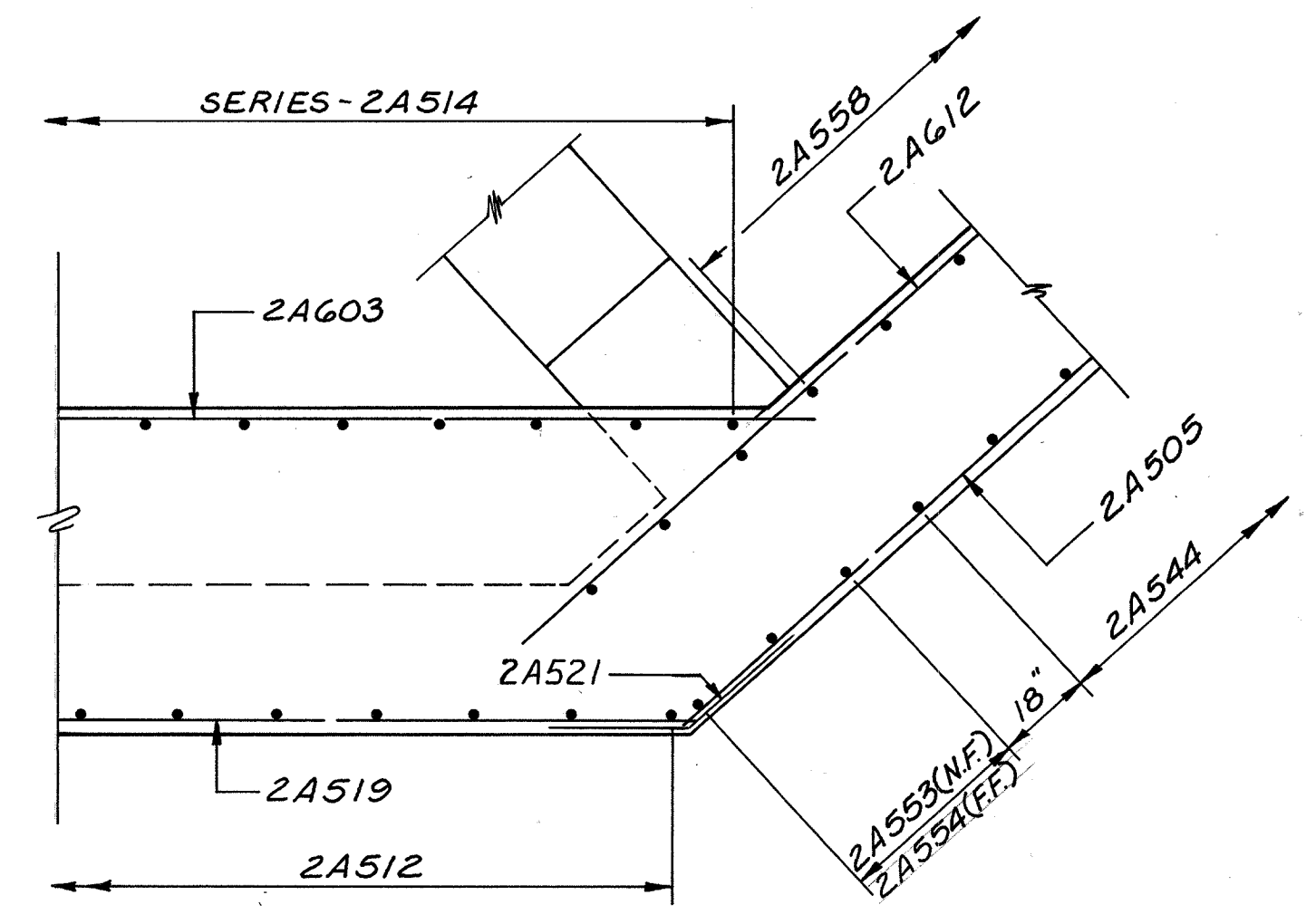
EAST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

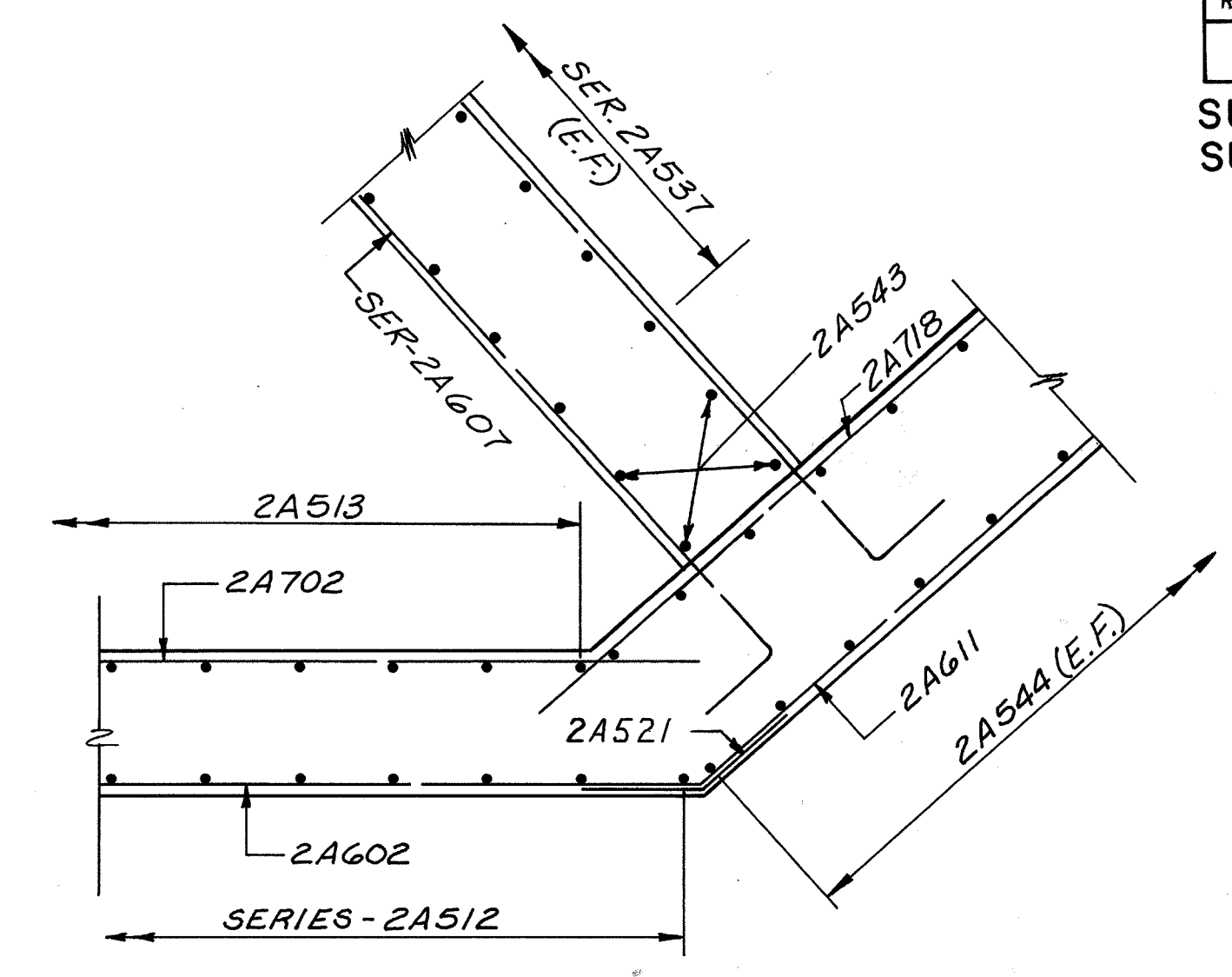
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	DAK JDP		JMH	JBH	3-31-89	



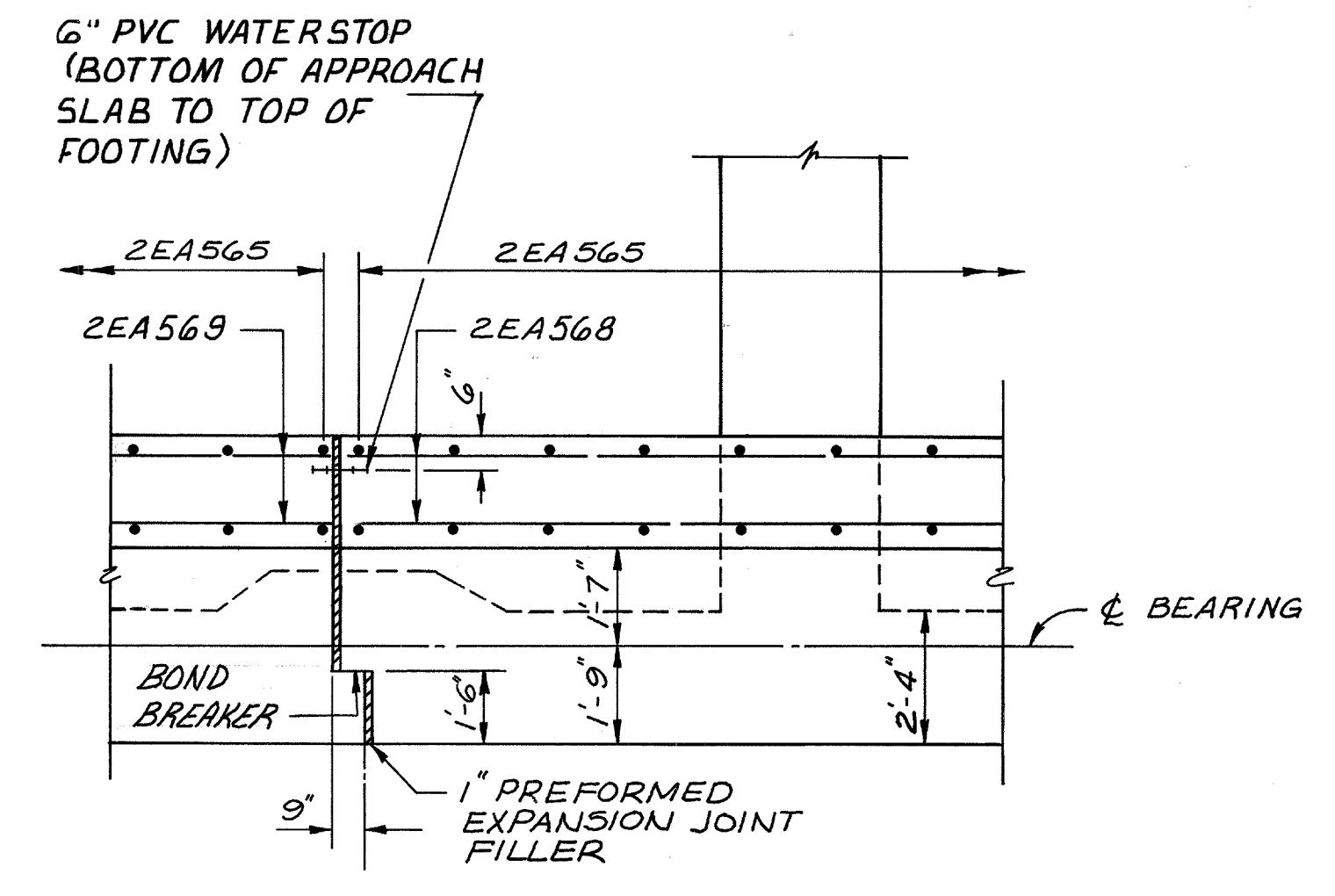
SECTION Q-Q



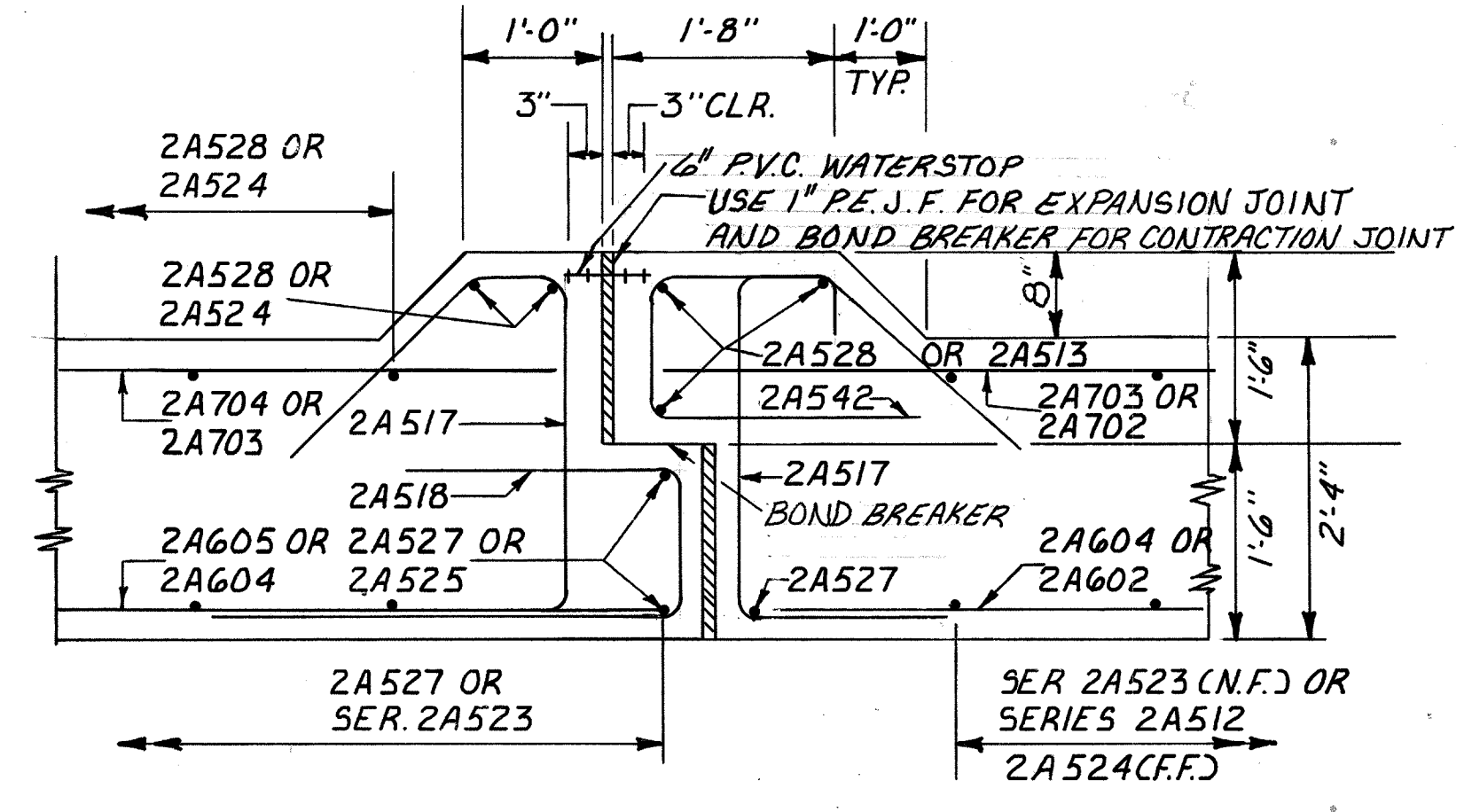
SECTION R-R



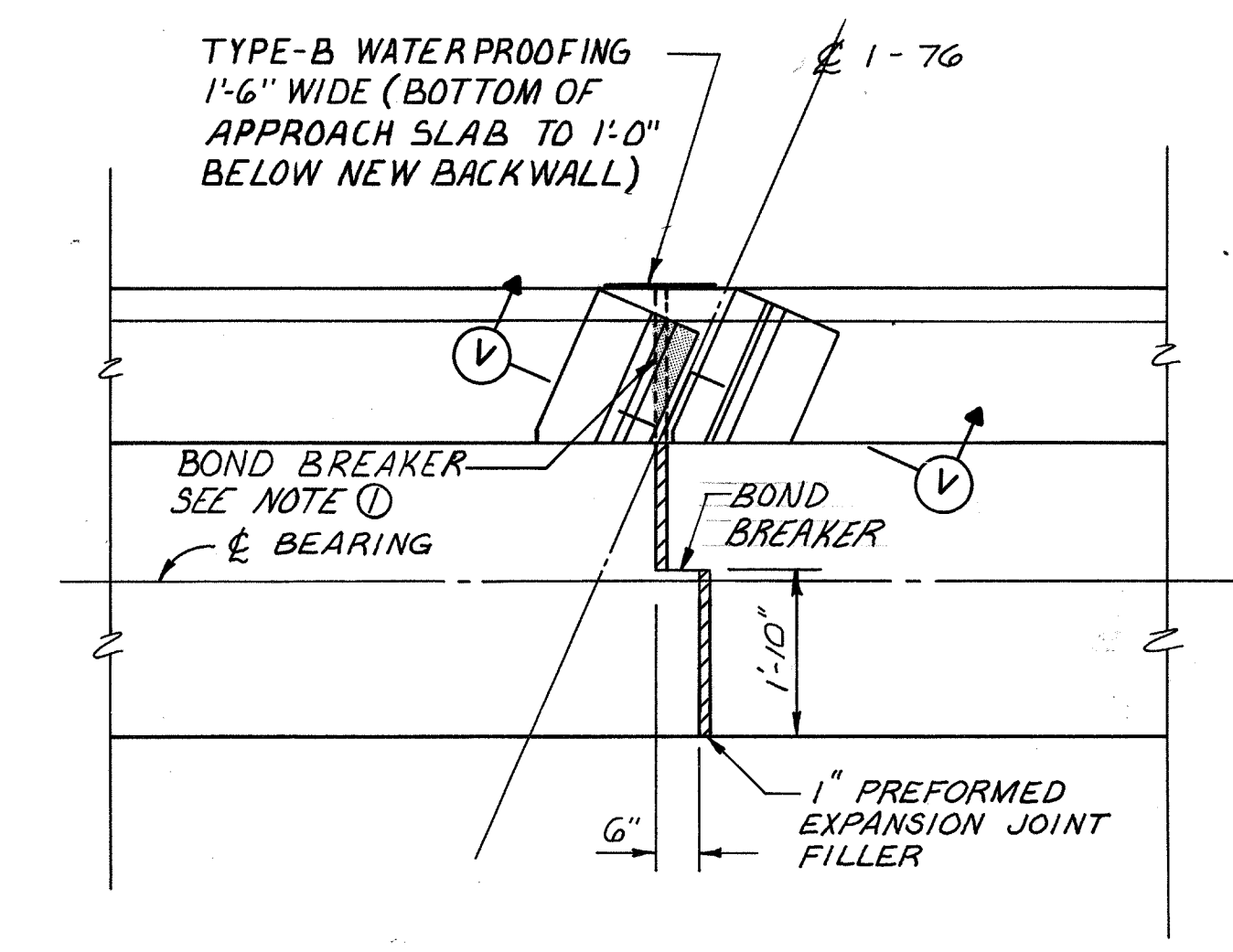
SECTION S-S



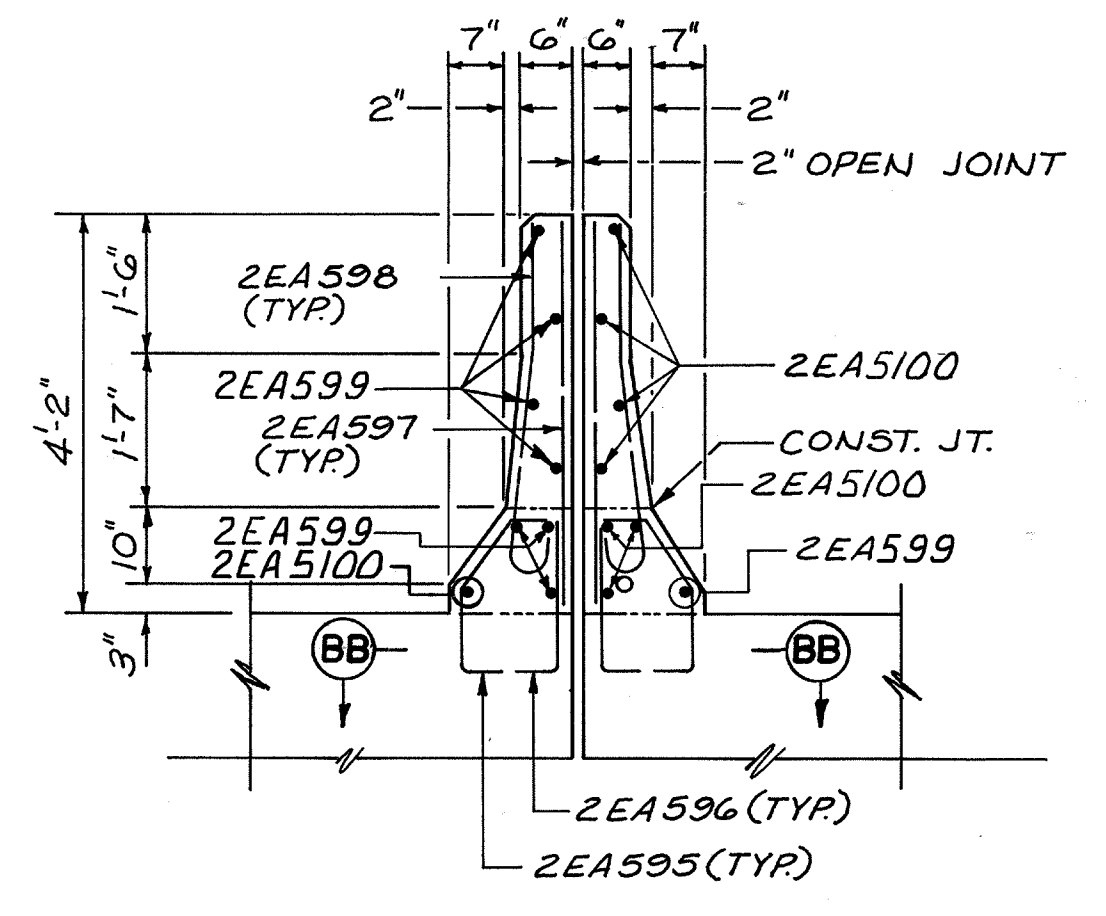
SECTION T-T



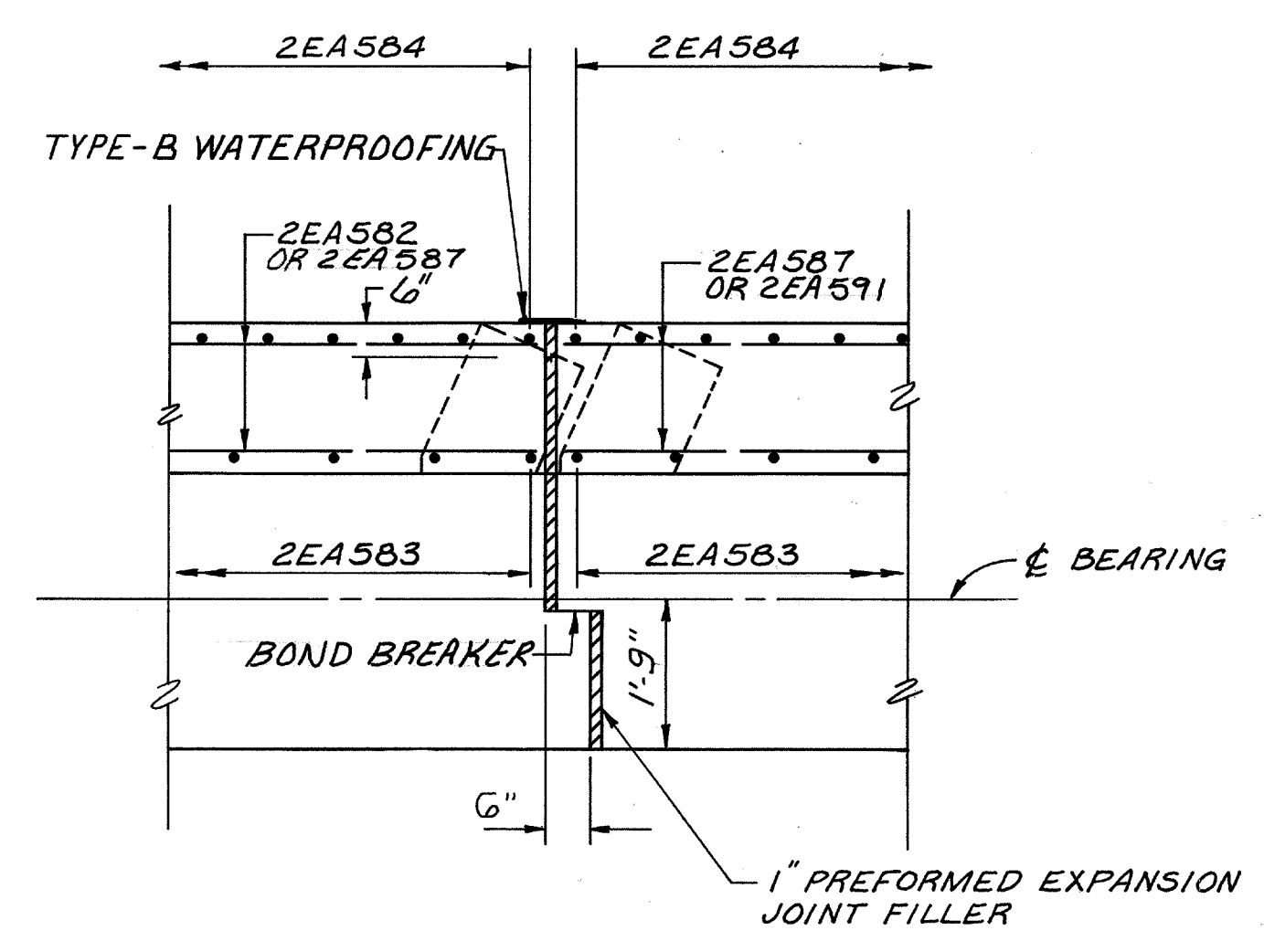
SECTION U-U



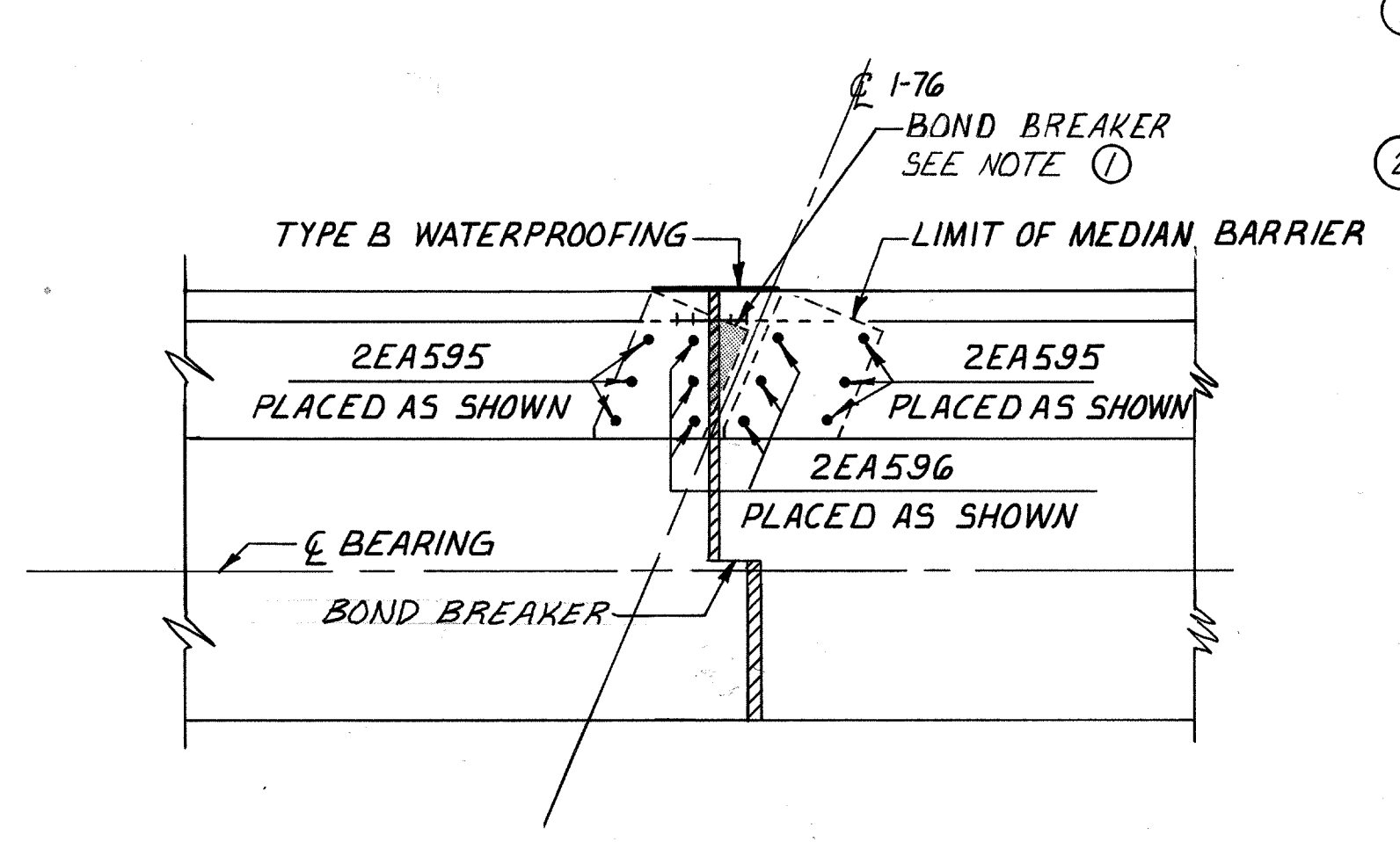
MEDIAN BARRIER DETAIL



SECTION V-V



SECTION W-W



SECTION BB-BB

NOTES

- ① BOND BREAKER SHALL BE APPLIED AT THE JOINT BETWEEN THE TOP OF THE BACKWALL AND THE BOTTOM CORNER OF THE MEDIAN BARRIER (SHADED AREAS).
- ② SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 44/120
CONSULTING ENGINEERS
AKRON, OHIO

EAST ABUTMENT DETAILS

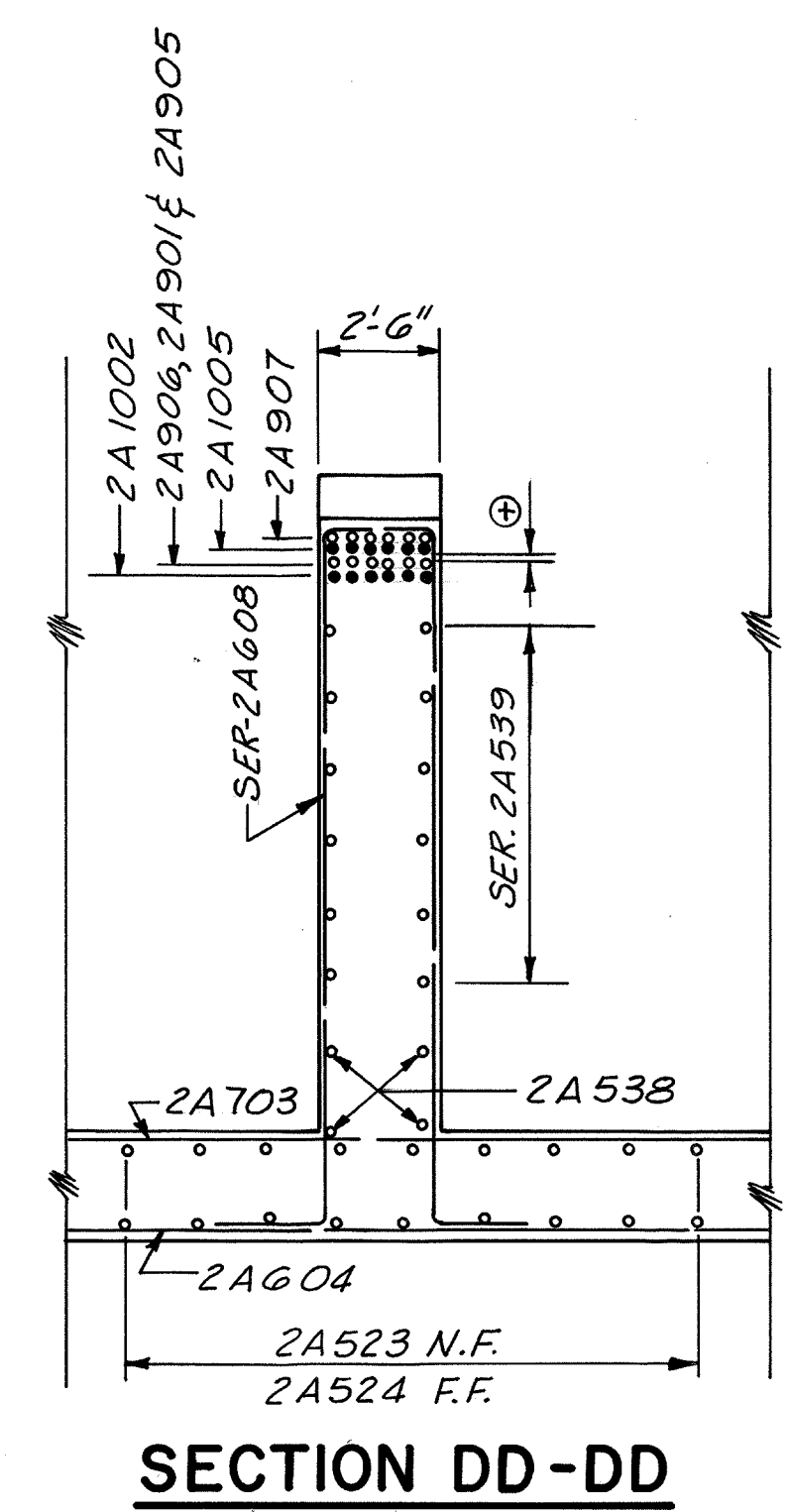
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	DAK JDP		J.M.H.	J.B.H.	3-31-89	

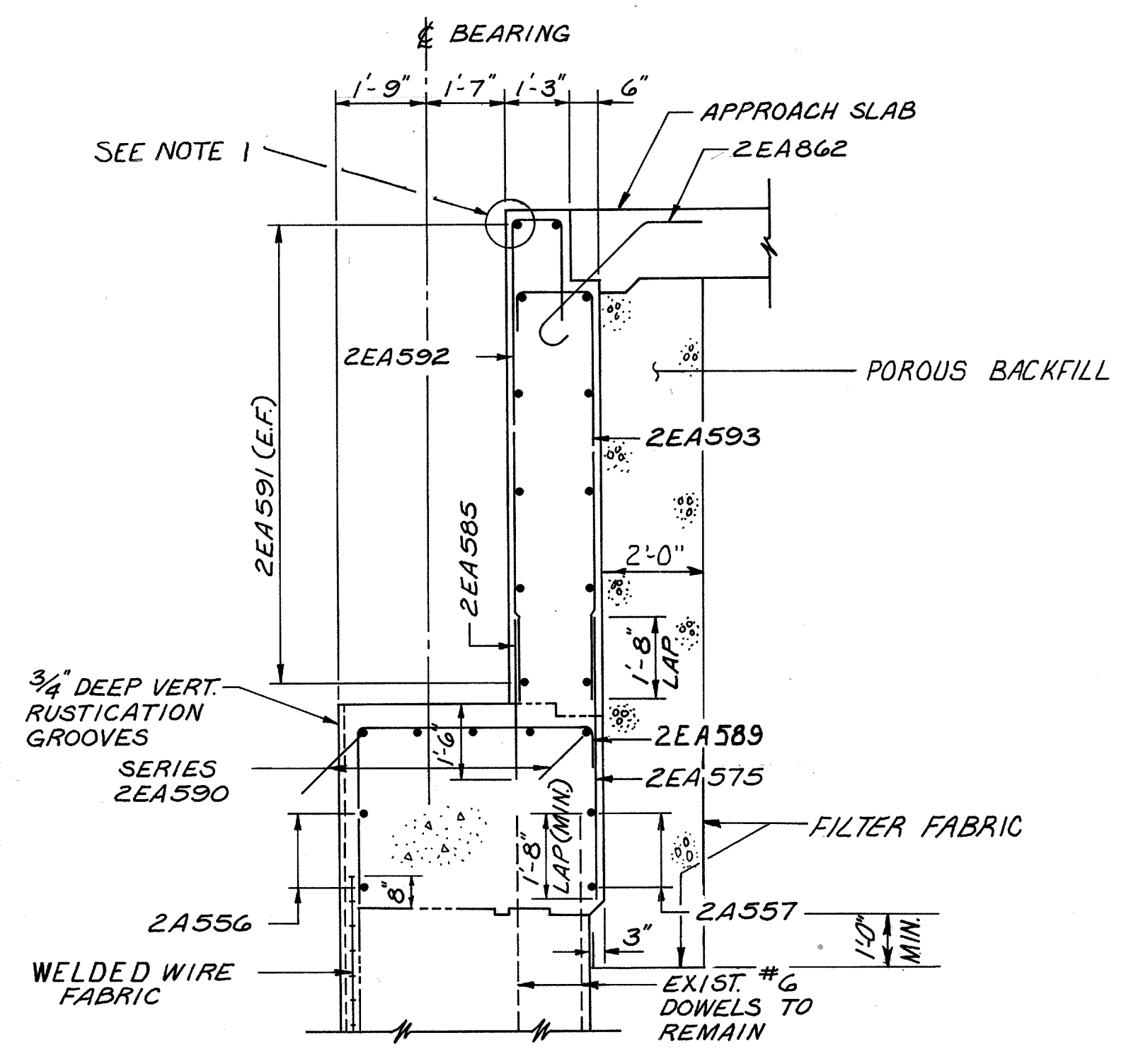
FHWA REGION	STATE	PROJECT
5	OHIO	

987
1214

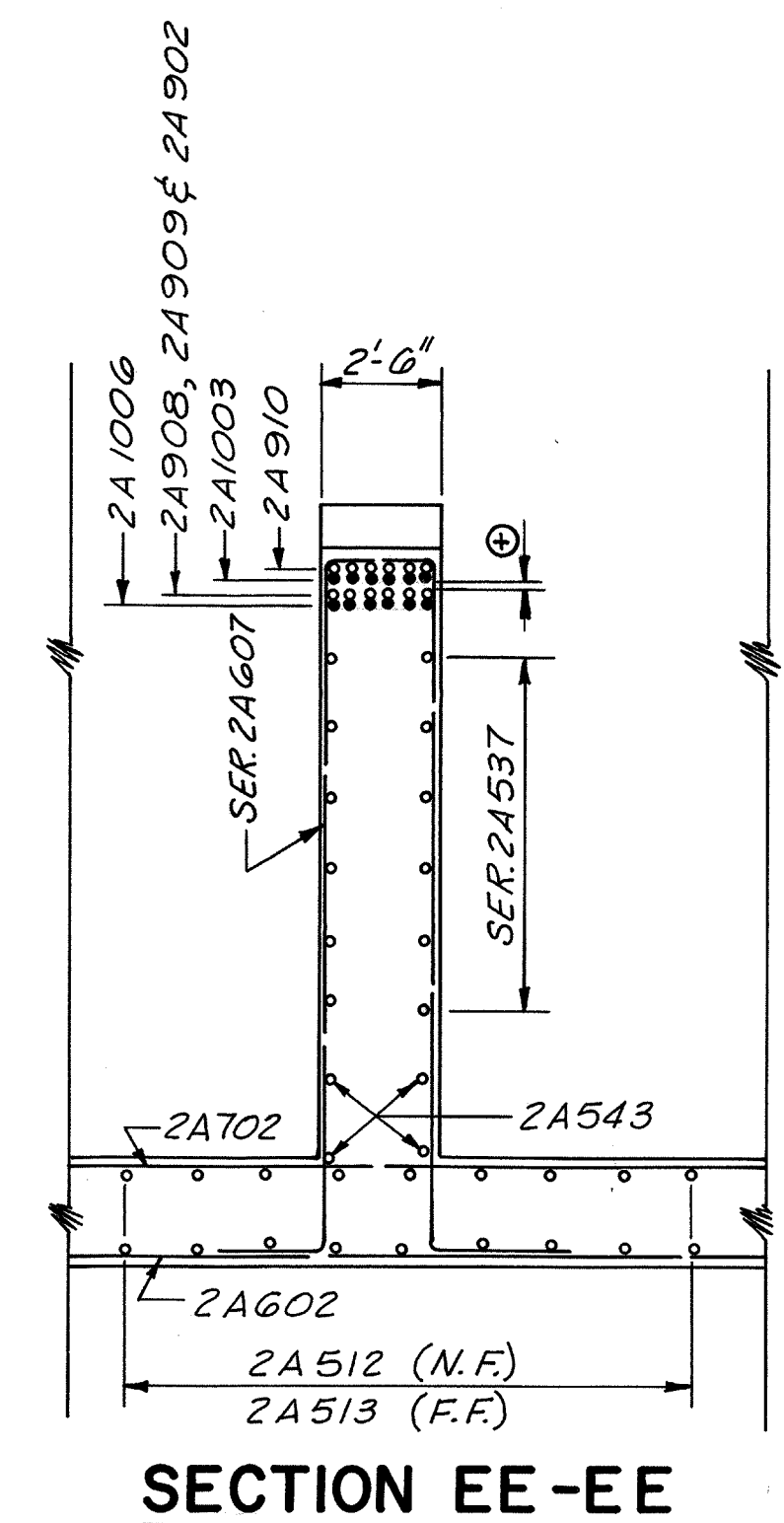
SUMMIT COUNTY
SUM 76-11.57



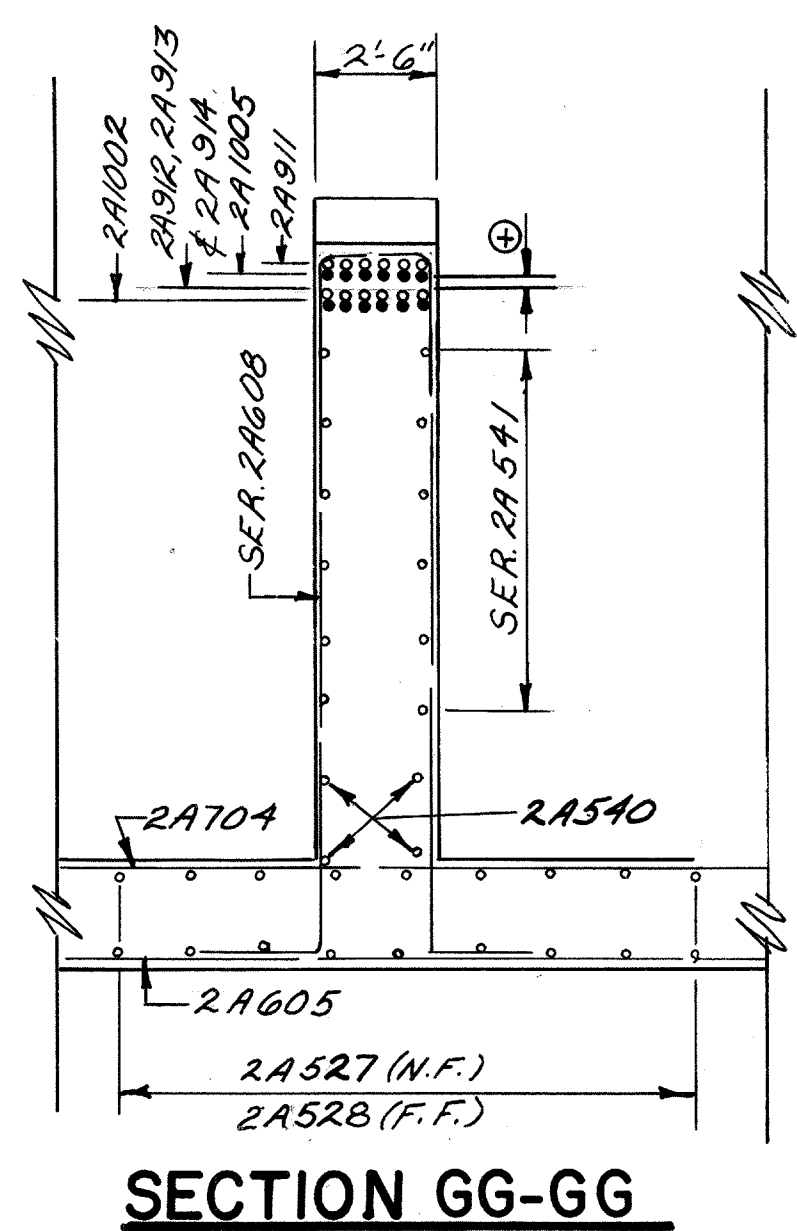
SECTION DD-DD



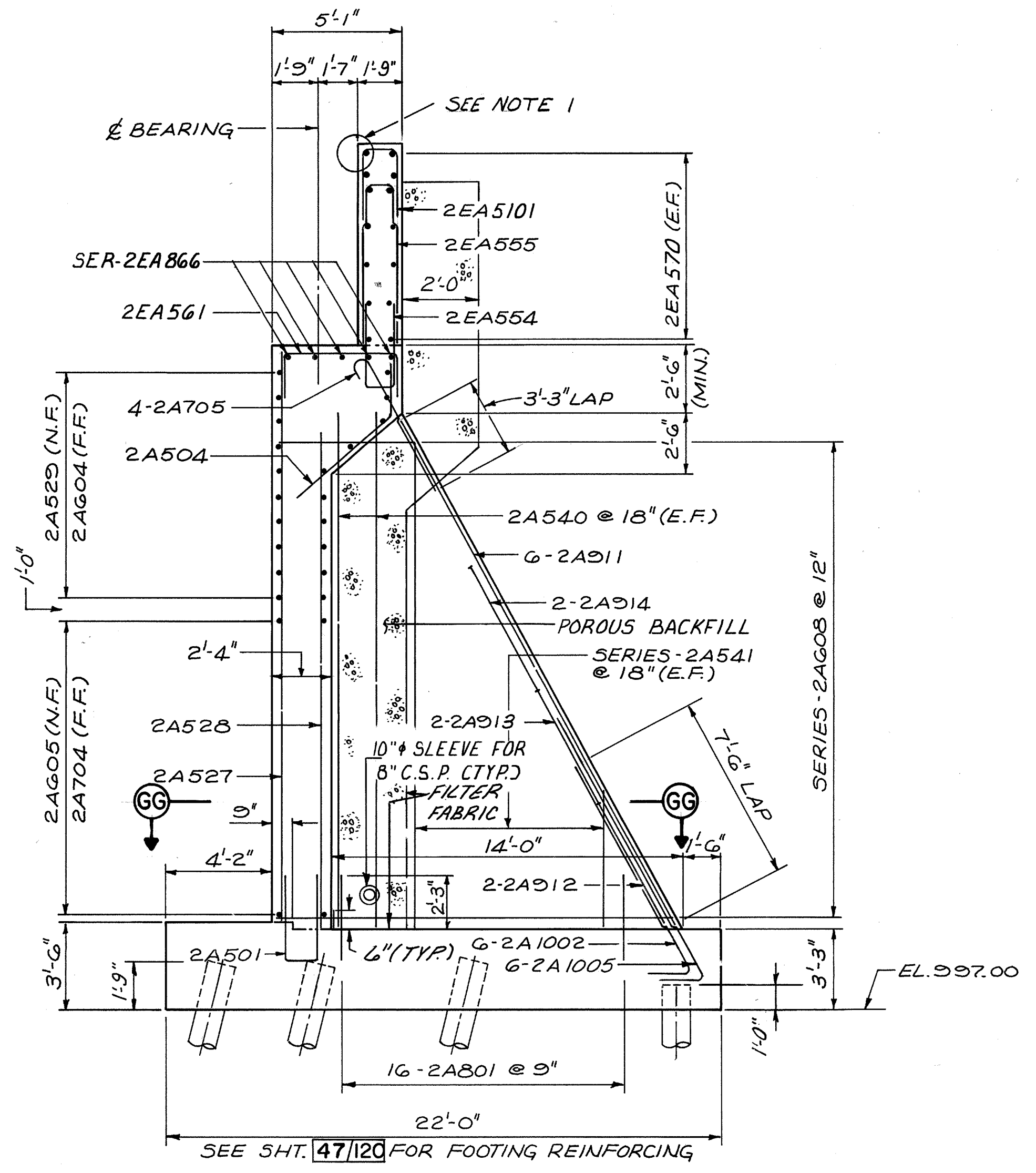
SECTION Z-Z



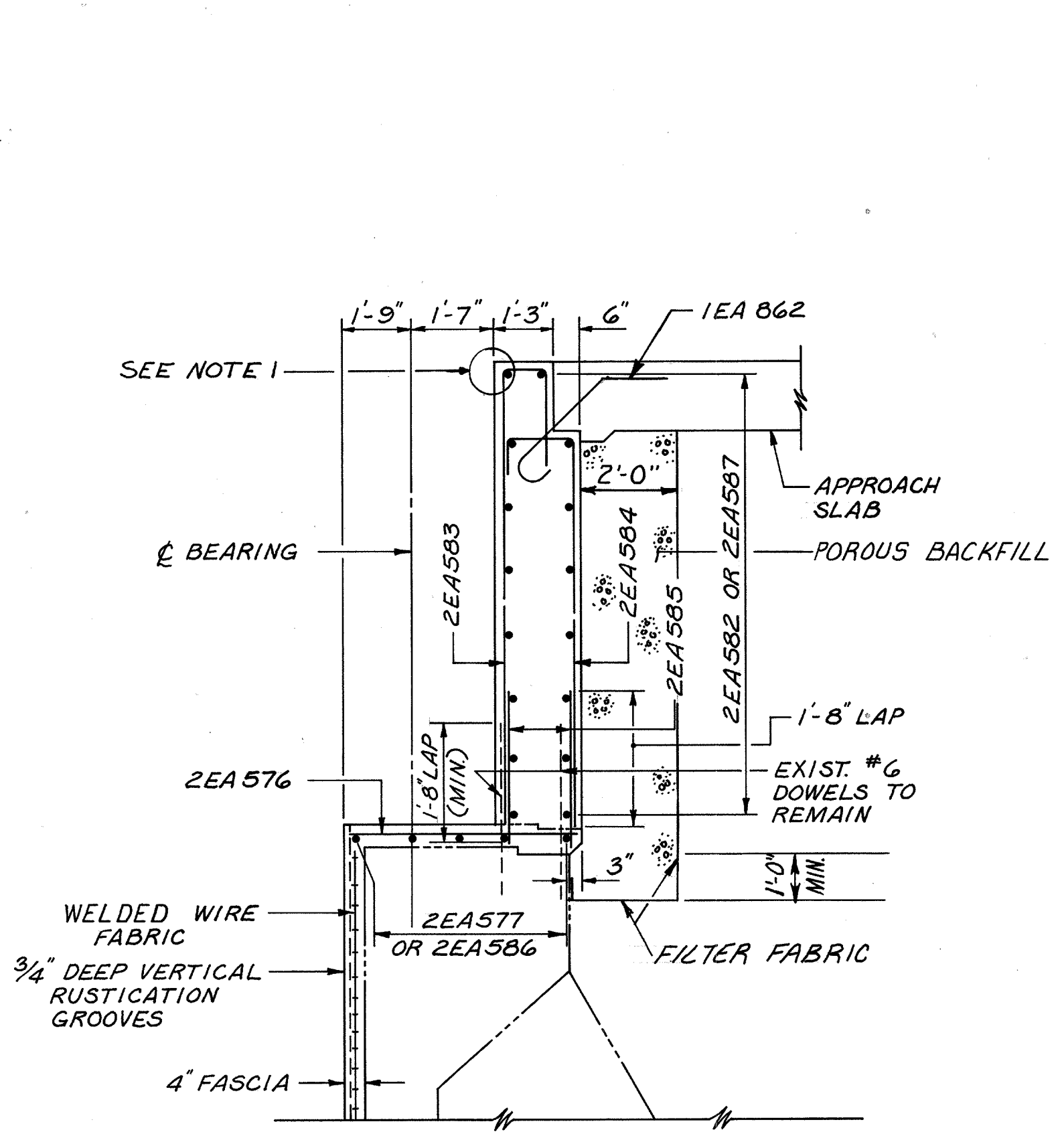
SECTION EE-EE



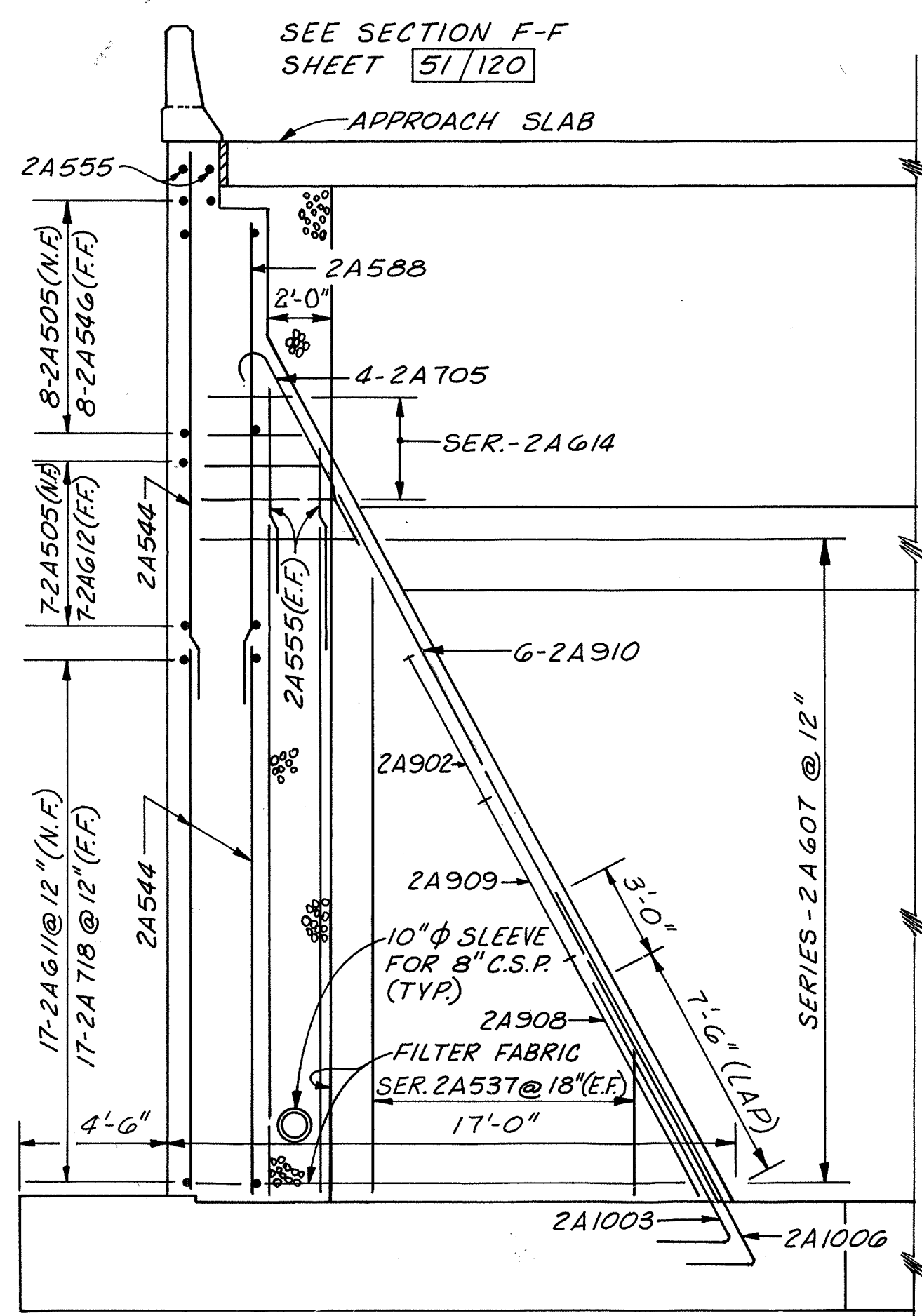
SECTION GG-GG



SECTION E-E



SECTION Y-Y



SECTION FF-FF

NOTES

- ① FOR EXPANSION JOINT DETAILS SEE SHEETS 80/120 THRU 82B/120
- ② SEE NOTES 1 & 2, SHEET 25/120
- ③ ⊕ INDICATES 2 1/2" (MIN) CLEAR BETWEEN ROWS OF BARS.

McCOY ASSOCIATES INC. 45/120
CONSULTING ENGINEERS
AKRON, OHIO

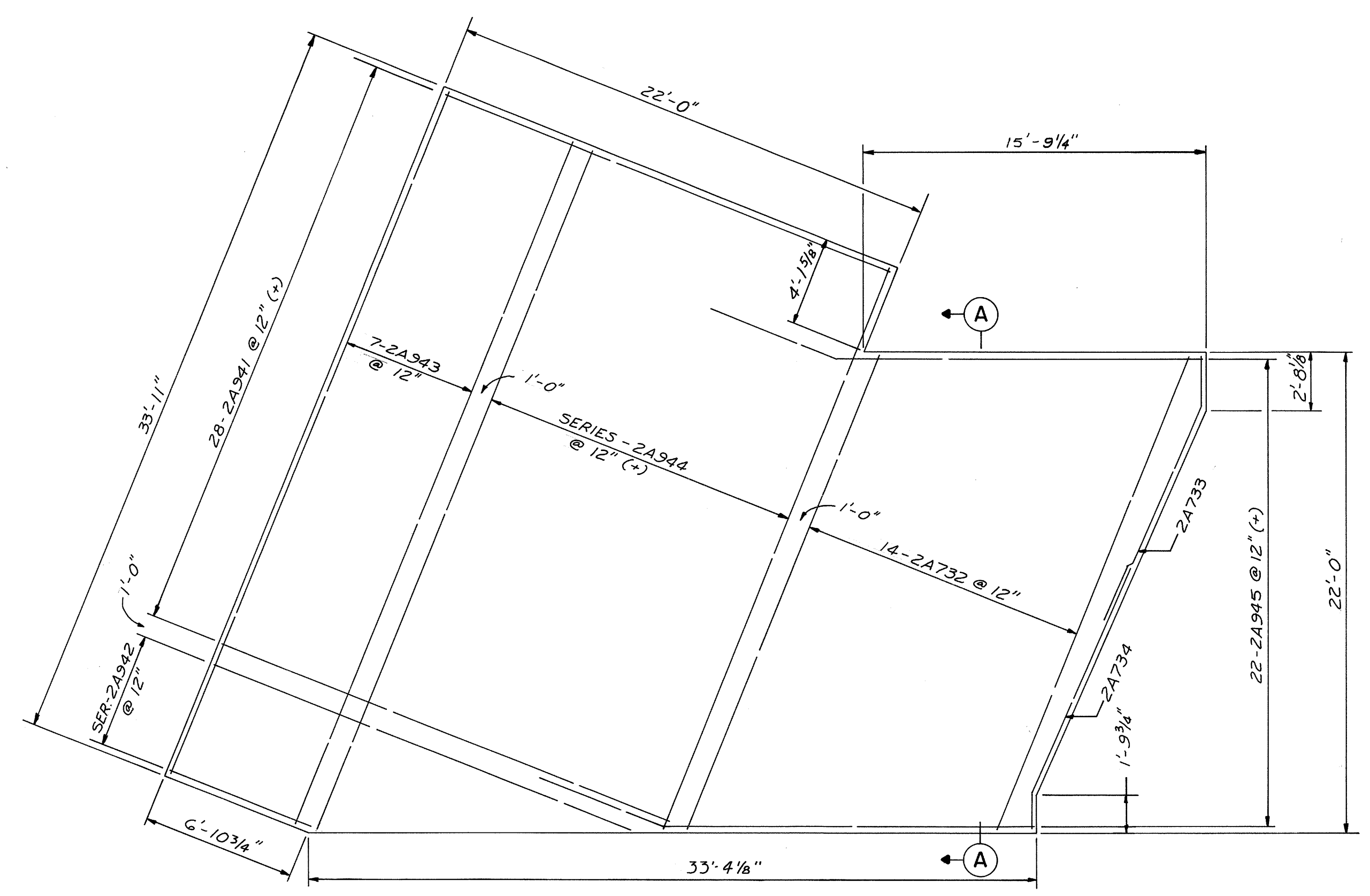
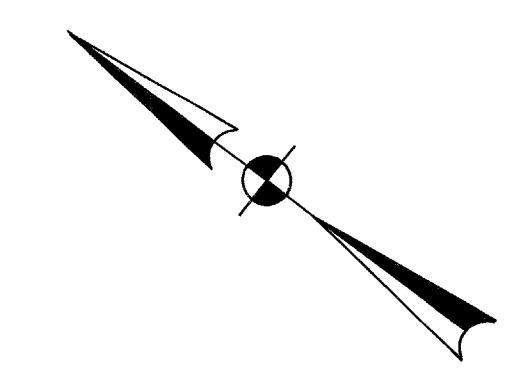
EAST ABUTMENT DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

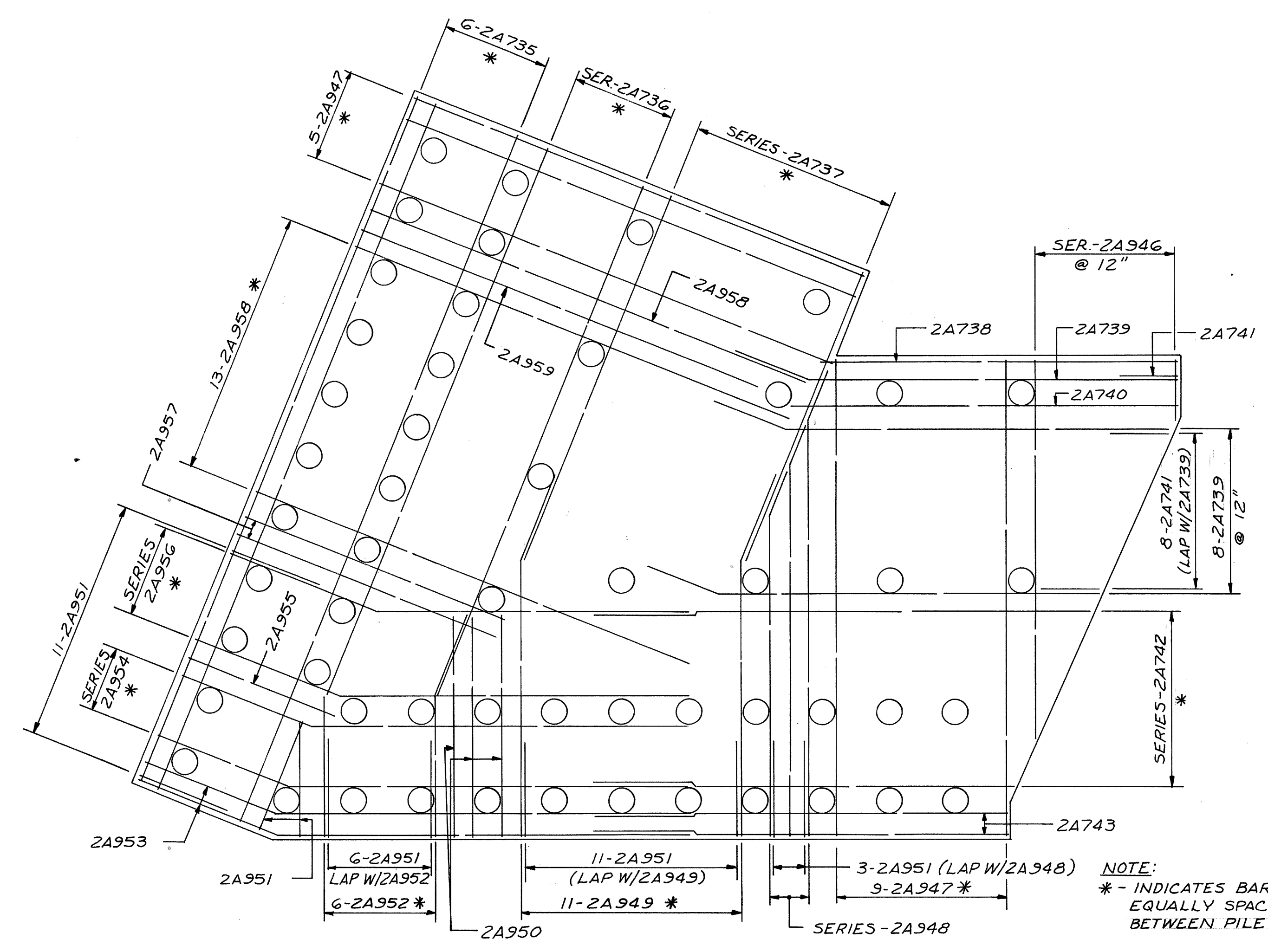
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	JDP DAK		JMH	JBH	3-31-89	

SEE FOOTING DETAILS
SHEET 47/120

SUMMIT COUNTY
SUM 76-11.57

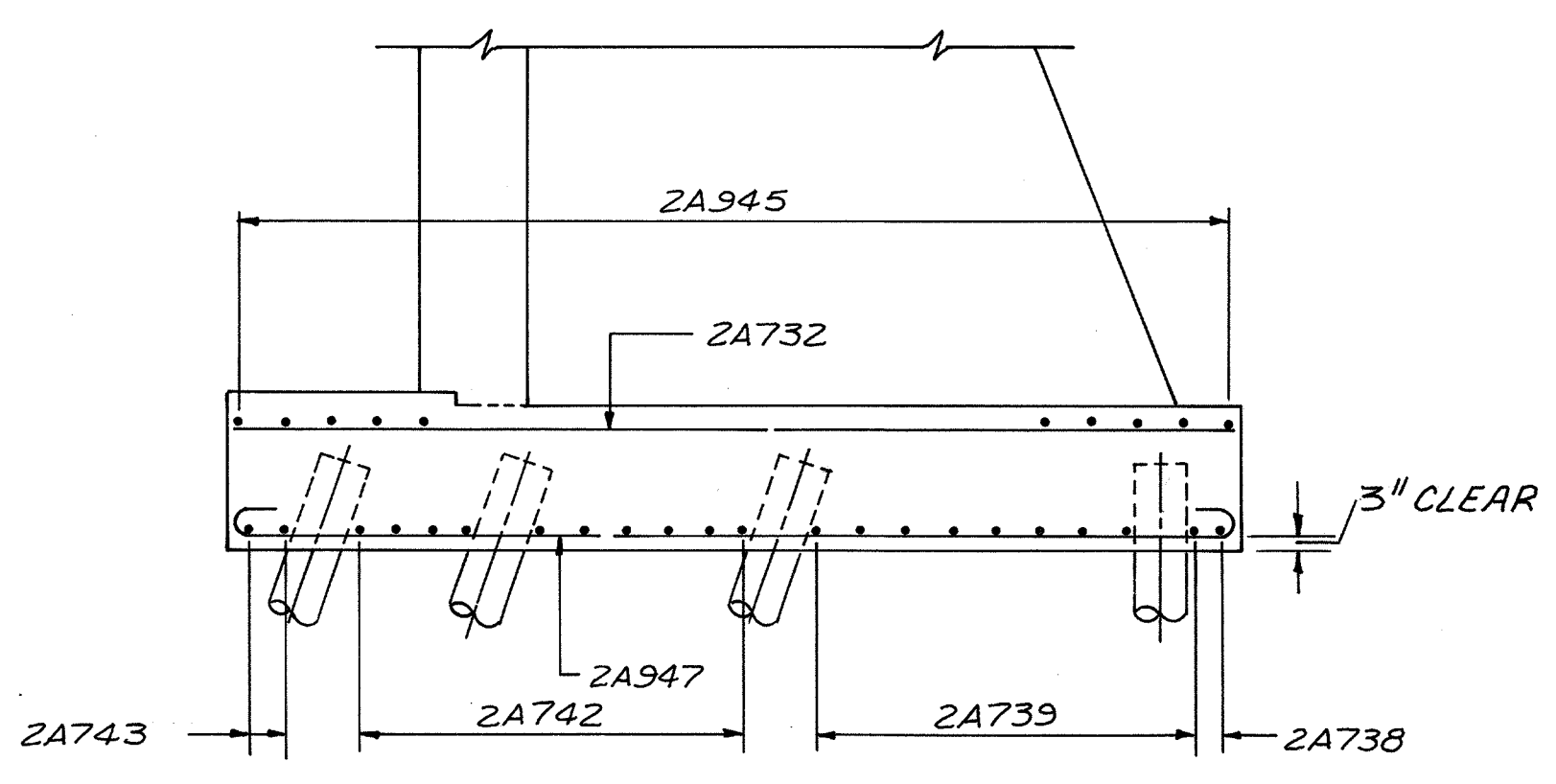


REINFORCING IN TOP OF FOOTING



REINFORCING IN BOTTOM OF FOOTING

NOTE:
* - INDICATES BARS TO BE EQUALLY SPACED BETWEEN PILES



SECTION A-A

NOTES

- ① REFER TO EAST ABUTMENT DETAILS FOR ADDITIONAL PLAN DIMENSIONS.
- ② SEE NOTES 1 & 2. SHEET 25/120

McCOY ASSOCIATES INC. 46/120
CONSULTING ENGINEERS
AKRON, OHIO

**NORTHEAST ABUTMENT
FOOTING REINFORCING**

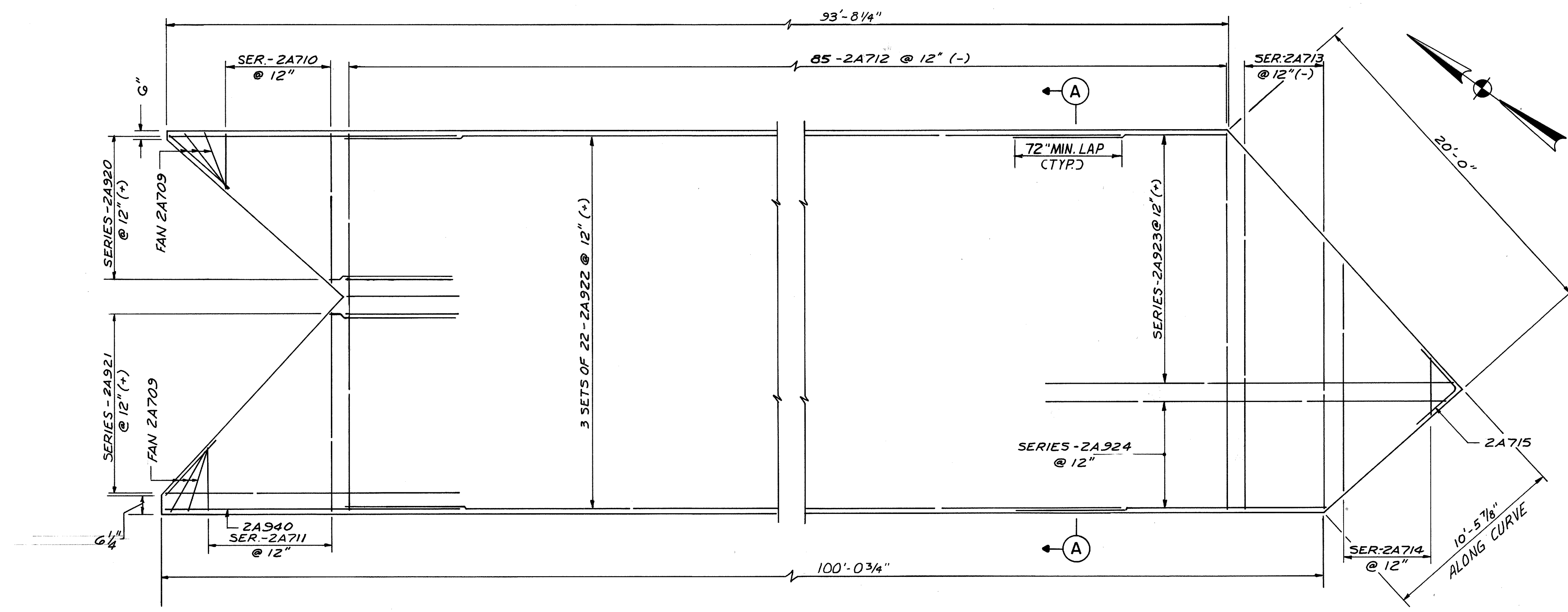
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.P.	M.R.A.	J.M.H.	J.B.H.	3-31-83	

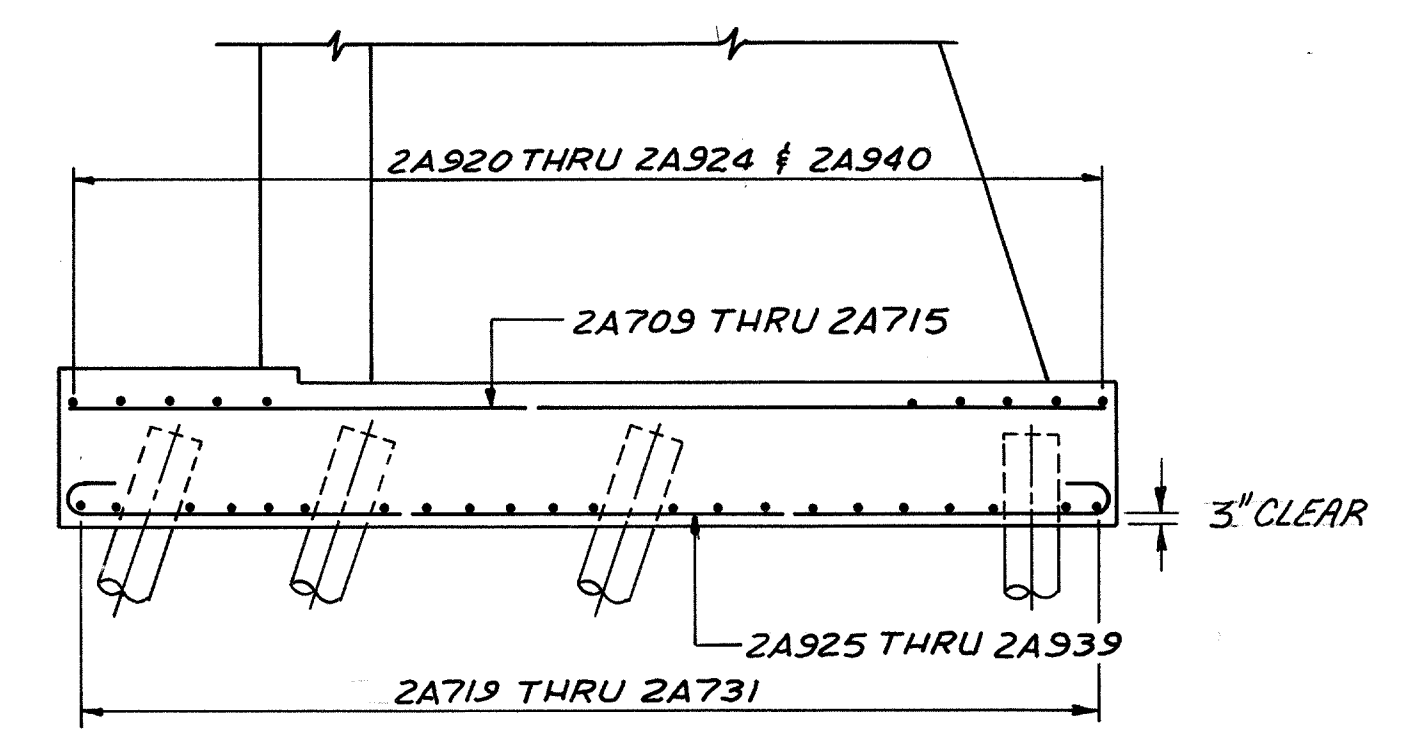
FHWA REGION	STATE	PROJECT	
5	OHIO		

989
1214

SUMMIT COUNTY
SUM 76-11.57



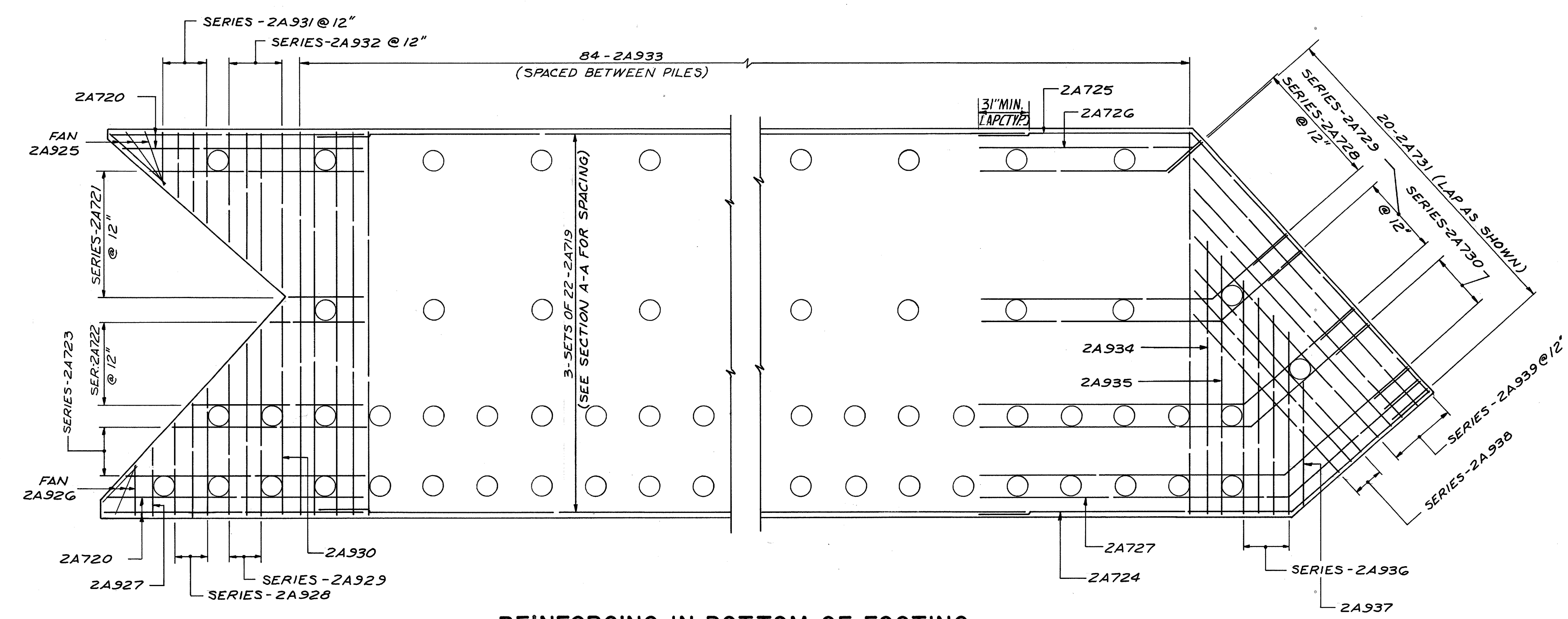
REINFORCING IN TOP OF FOOTING



SECTION A-A

NOTES

- ① REFER TO EAST ABUTMENT DETAILS FOR ADDITIONAL PLAN DIMENSIONS.
- ② SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.



REINFORCING IN BOTTOM OF FOOTING

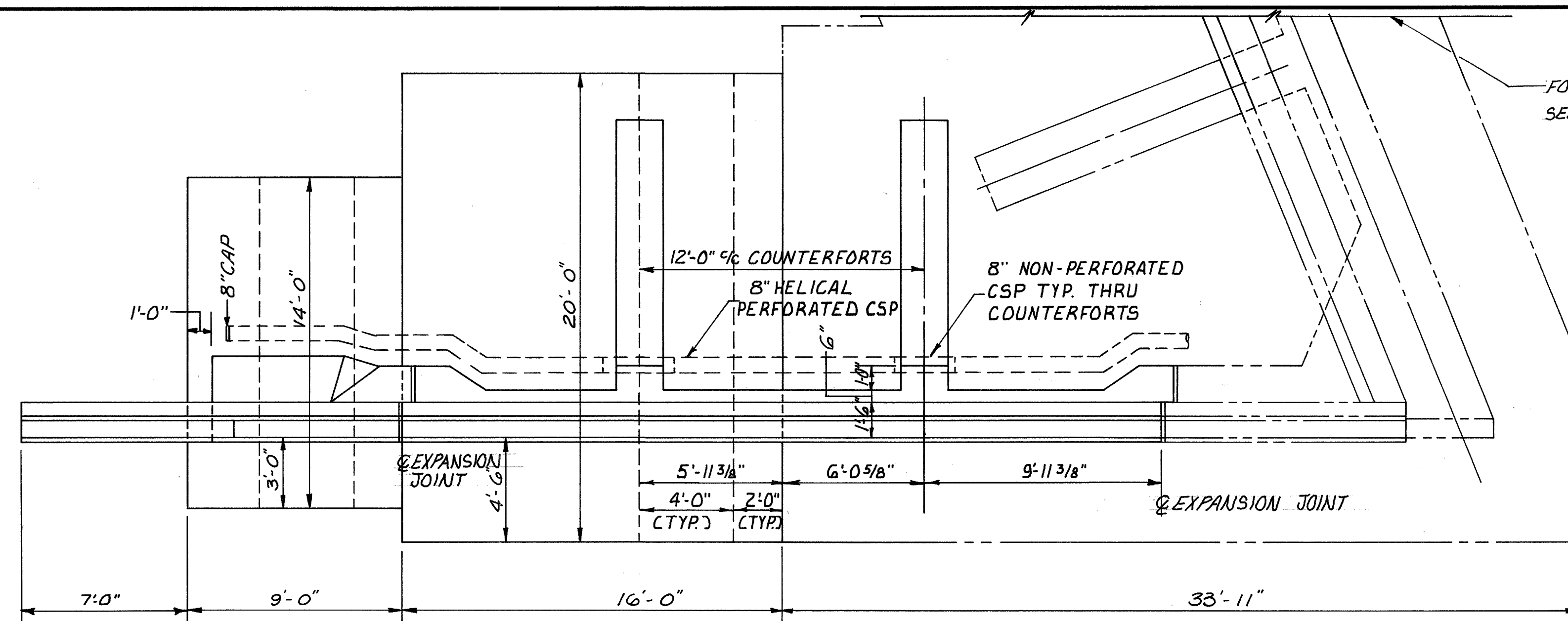
McCOY ASSOCIATES INC. 47/120			
CONSULTING ENGINEERS AKRON, OHIO			
SOUTHEAST ABUTMENT FOOTING REINFORCING			
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT			
DESIGNED	DRAWN	TRACED	CHECKED
T.E.N.	J.D.P.	J.M.H.	J.P.H.
			DATE
			3-31-89
			REVISED

FHWA REGION	STATE	PROJECT	
5	OHIO		

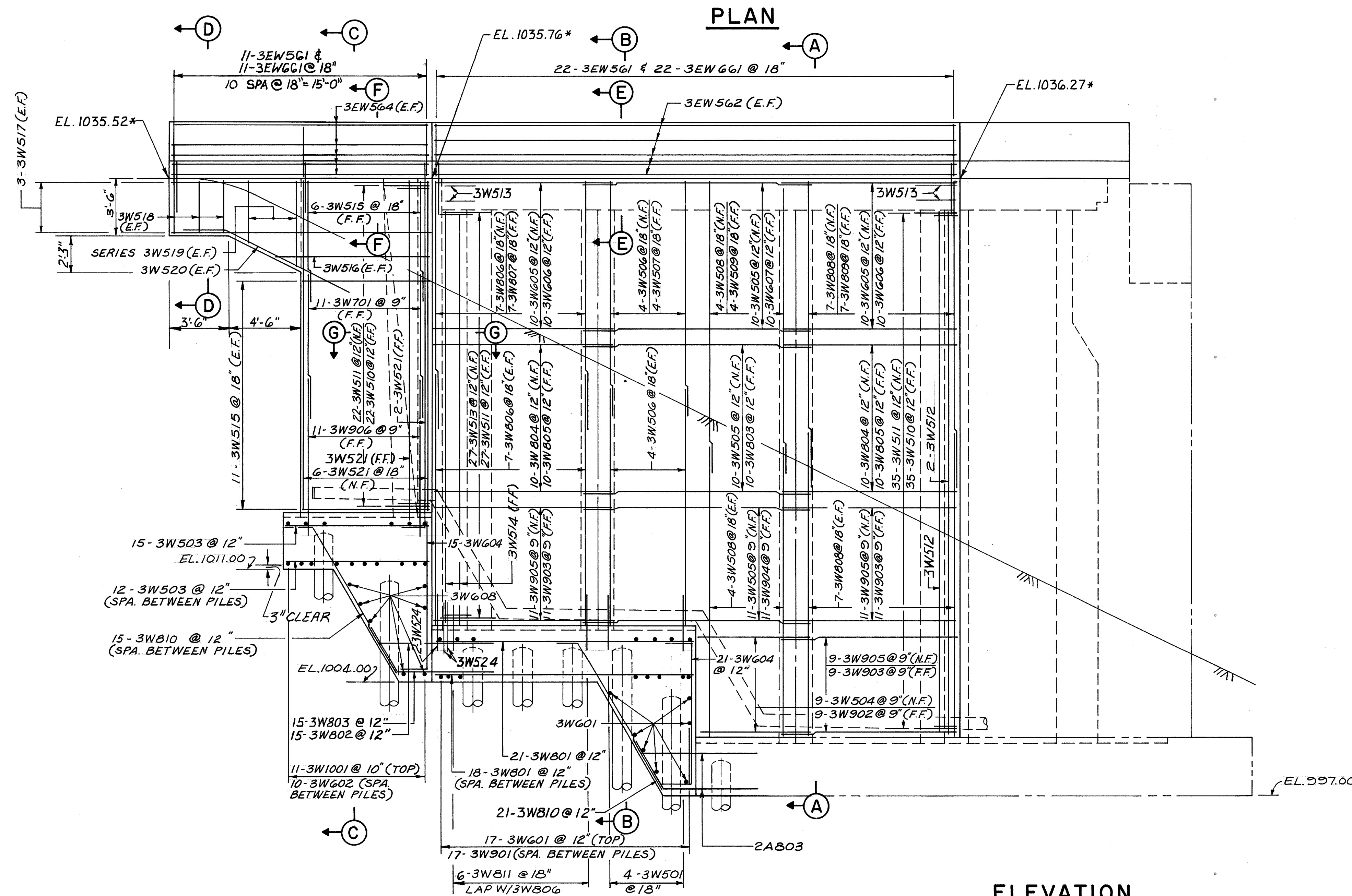
990
1214

SUMMIT COUNTY
SUM 76-11.57

FOR CONTINUATION
SEE SHEET 38/120



PLAN



ELEVATION

NOTES

- ① *INDICATES ELEVATION GIVEN AT TOE OF PARAPET AND TOP OF APPROACH SLAB.
- ② SEE SHEET 49/120 FOR ADDITIONAL DETAILS.
- ③ SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCoy Associates Inc. 48/120
CONSULTING ENGINEERS
AKRON, OHIO

NORTHEAST WINGWALL
DETAILS

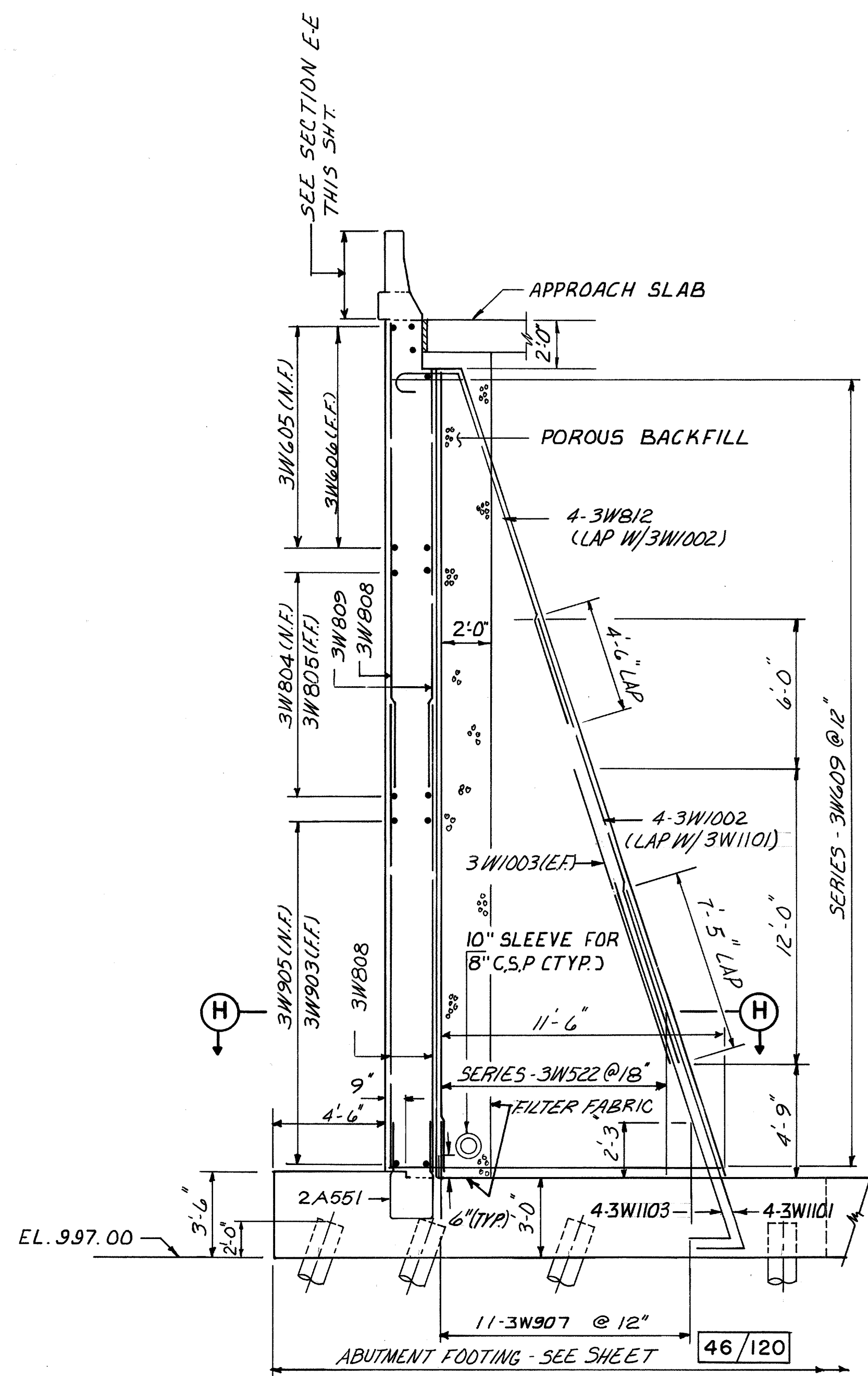
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.P.	G.T.	J.M.H.	J.B.H.	3-31-89	

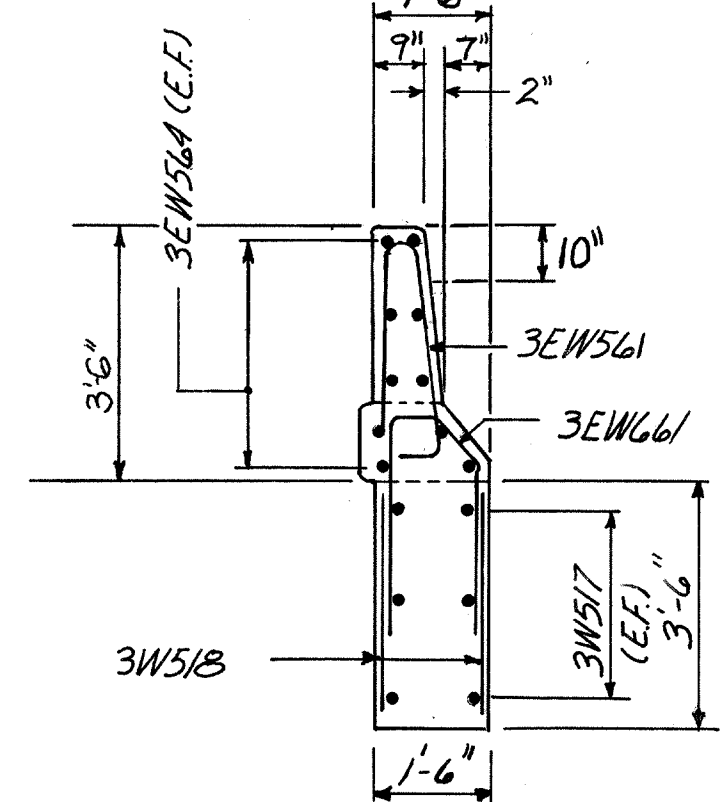
FHWA REGION	STATE	PROJECT
5	OHIO	

991
1214

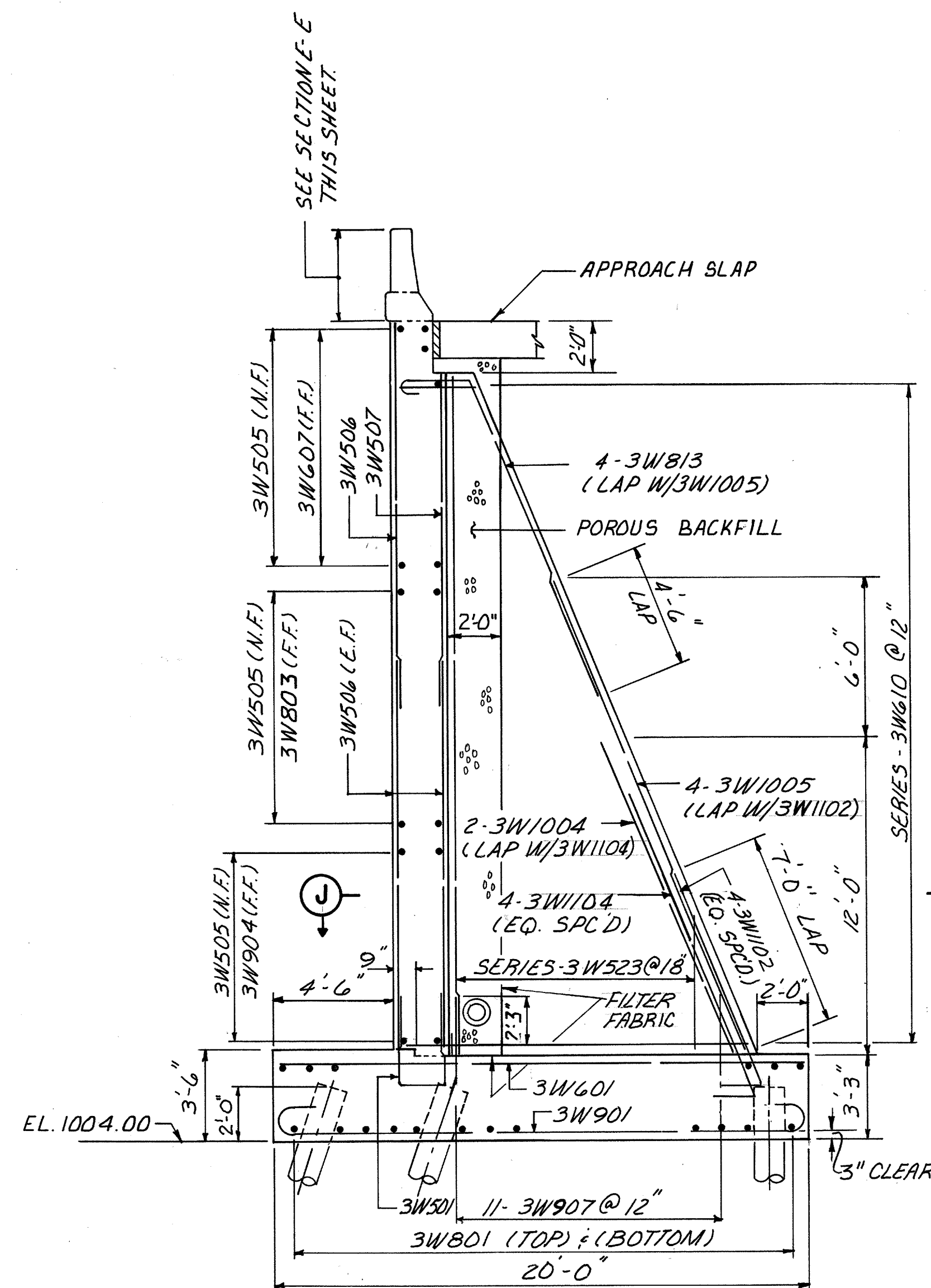
SUMMIT COUNTY
SUM 76-11.57



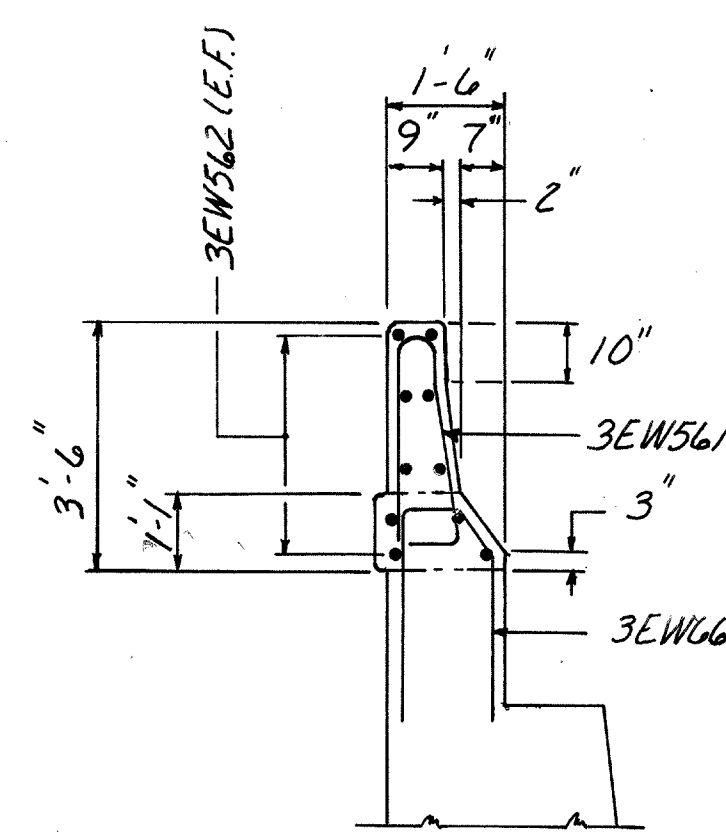
SECTION A-A



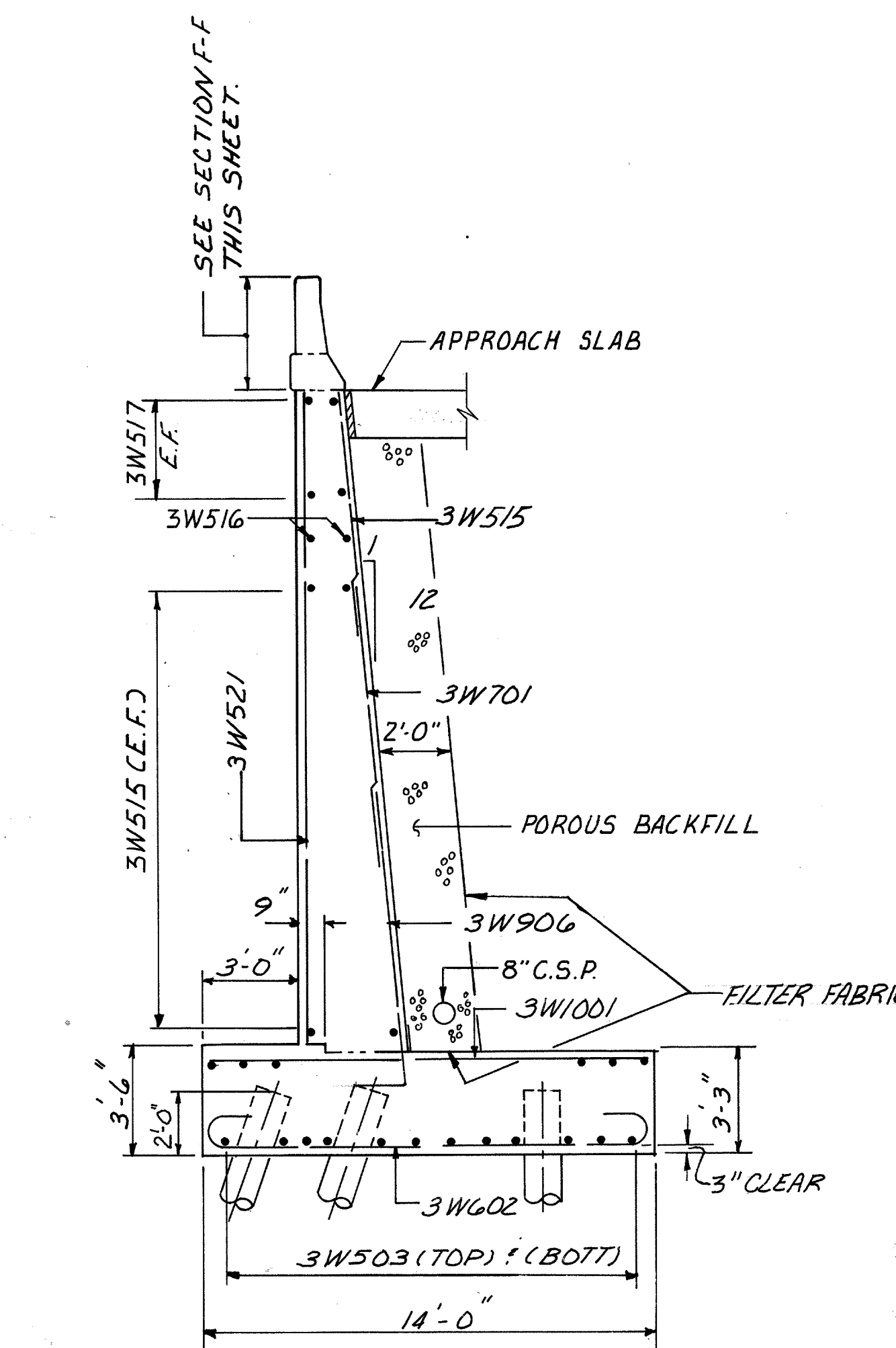
SECTION D-D



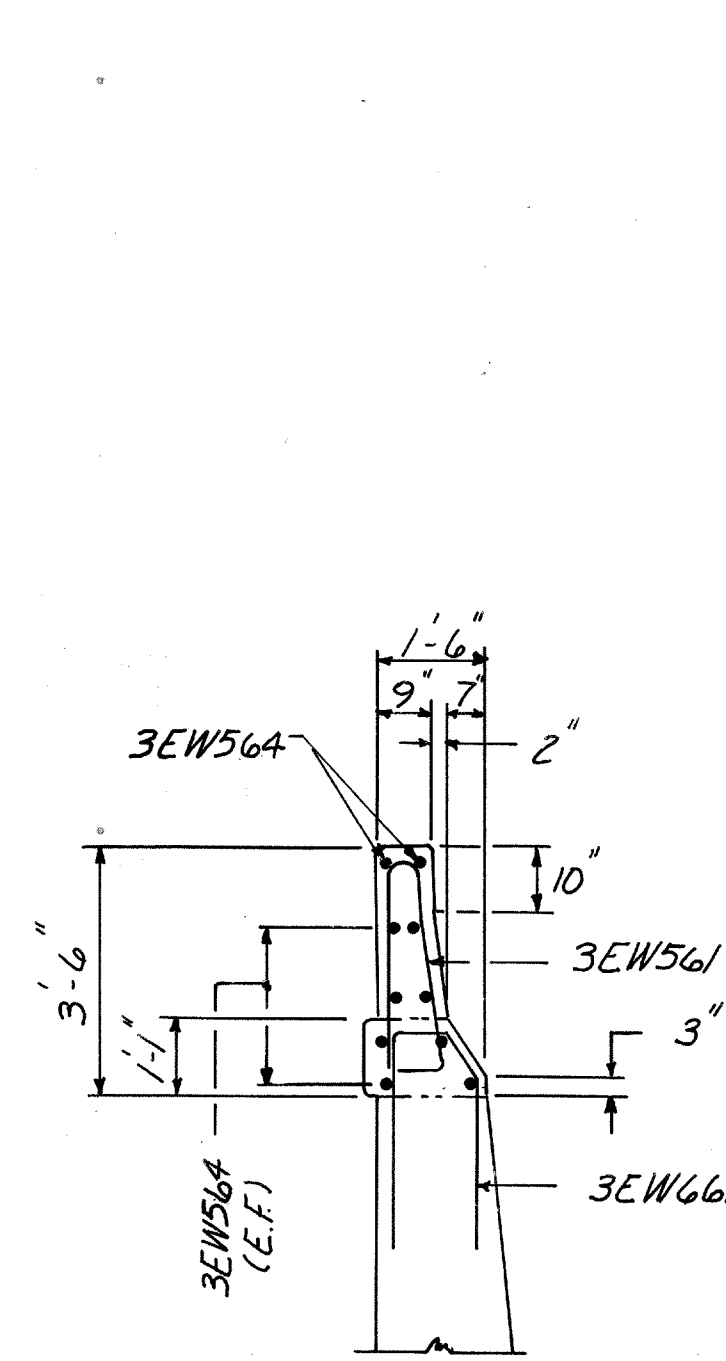
SECTION B-B



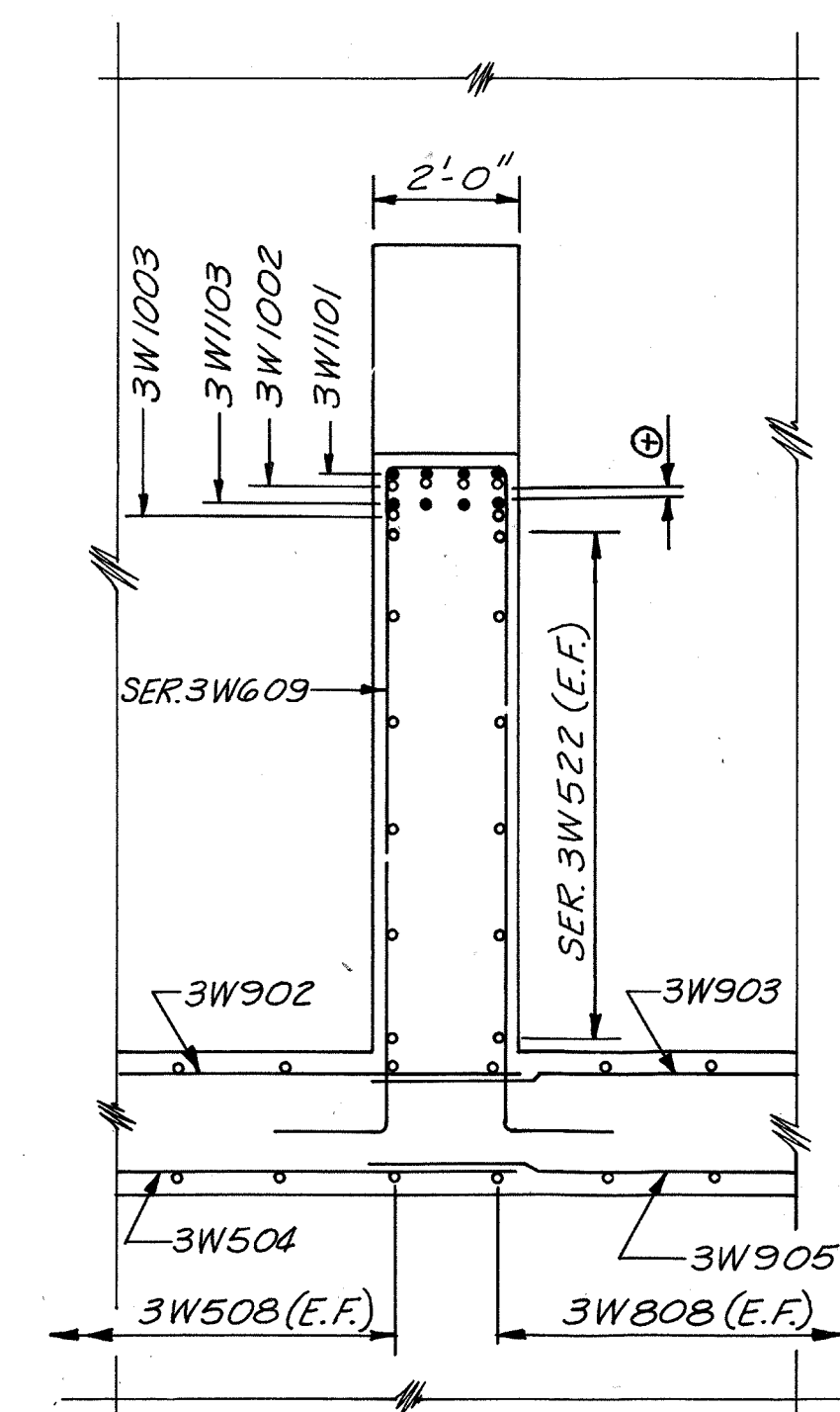
SECTION E-E



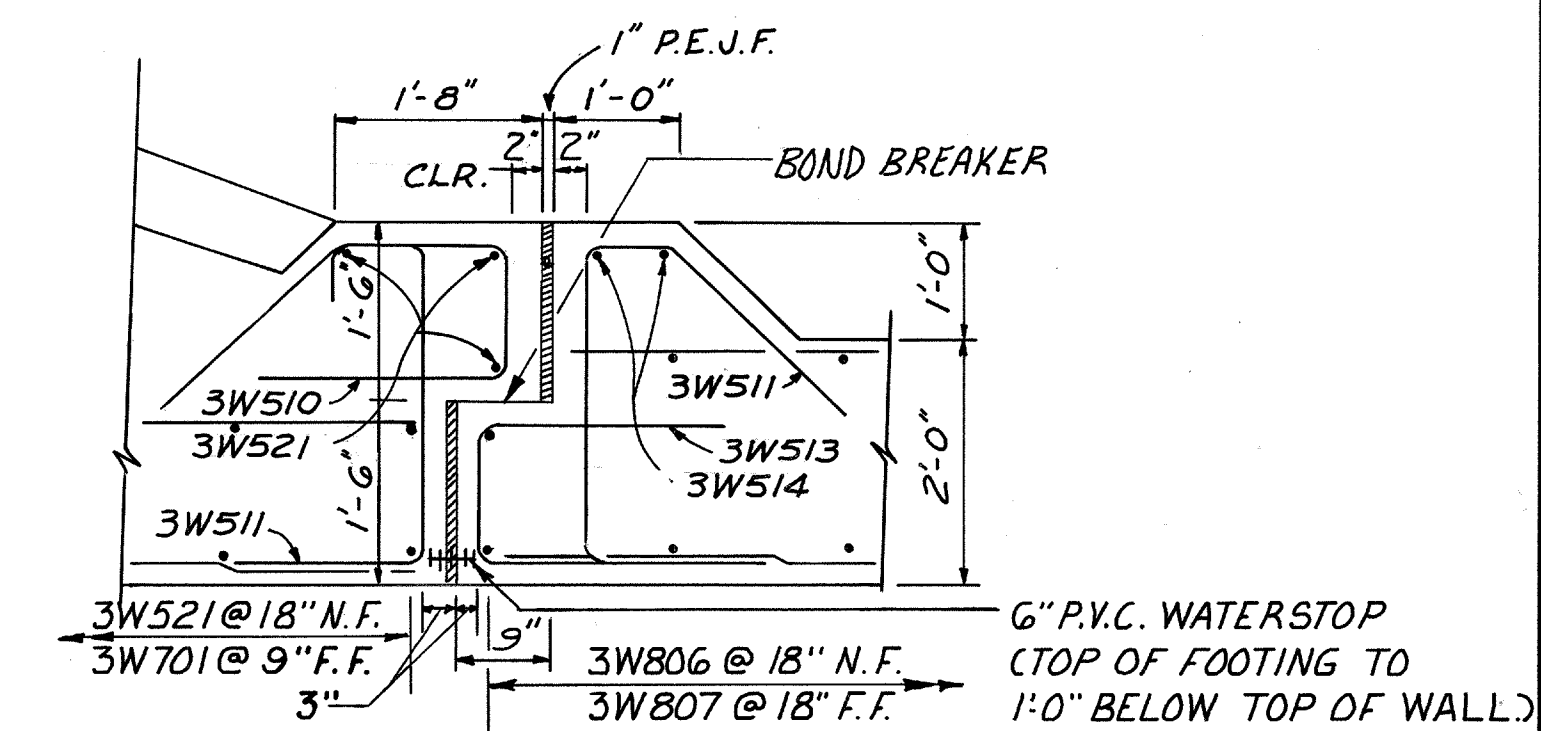
SECTION C-C



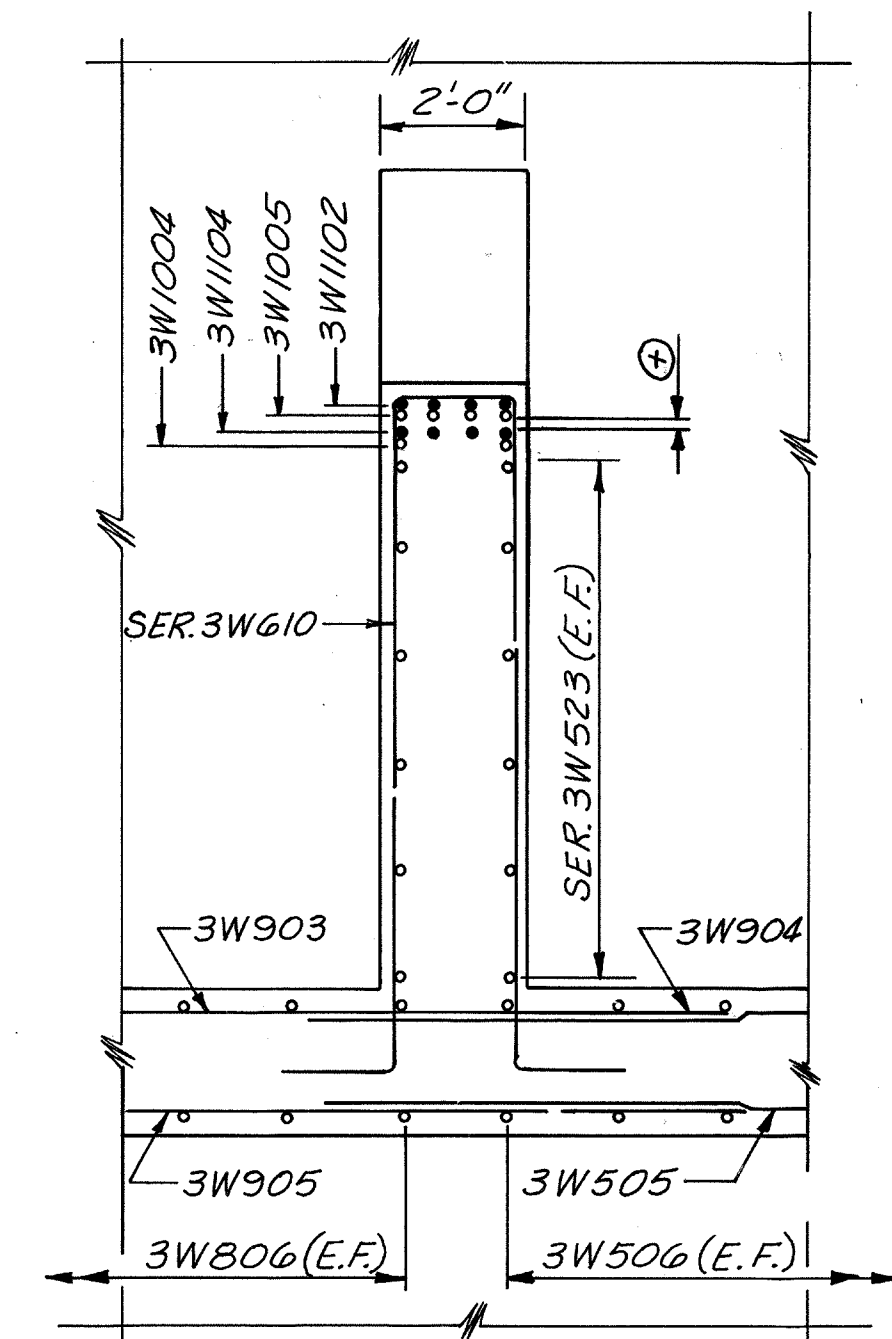
SECTION F-F



SECTION H-H



SECTION G-G



SECTION J-J

- NOTES
- ⊕ INDICATES 2 1/2" (MIN.) CLEAR BETWEEN ROWS OF BARS
 - SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES.

McCOY ASSOCIATES INC. 49/120
CONSULTING ENGINEERS
AKRON, OHIO

**NORTHEAST WINGWALL
DETAILS**

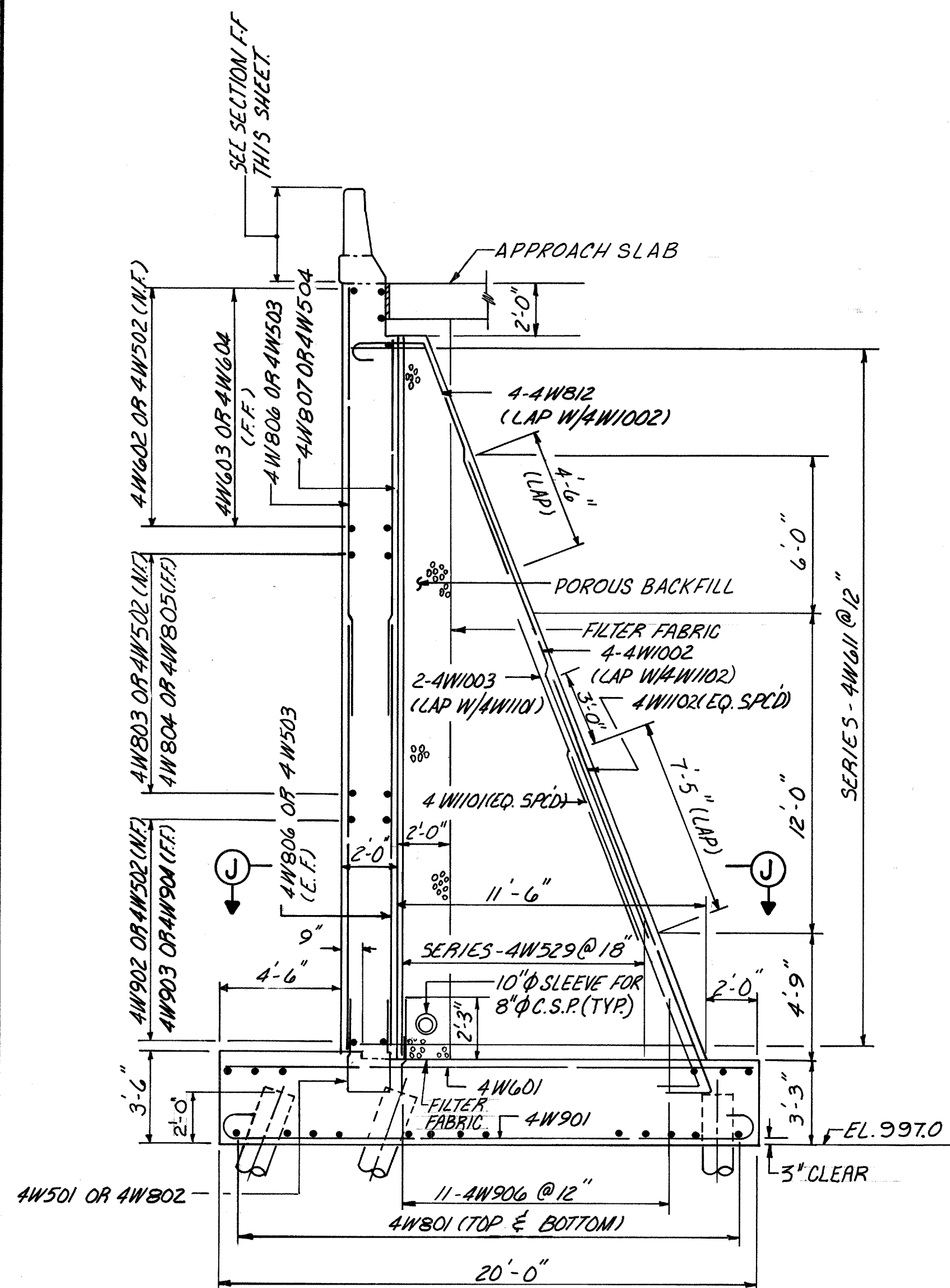
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	J.D.R.		J.M.H.	J.B.H.	3-31-89	

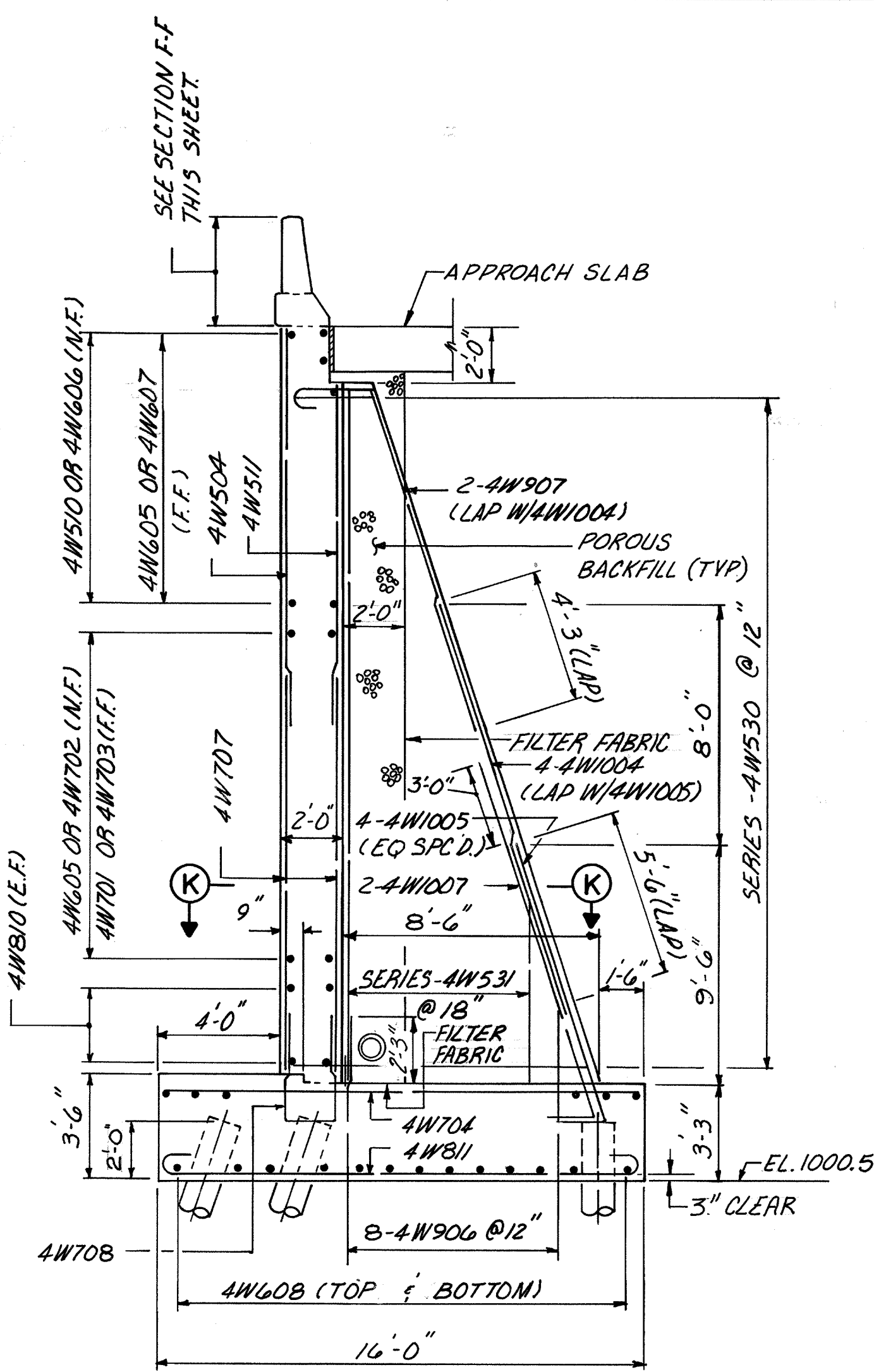
FHWA REGION	STATE	PROJECT
5	OHIO	

993
1214

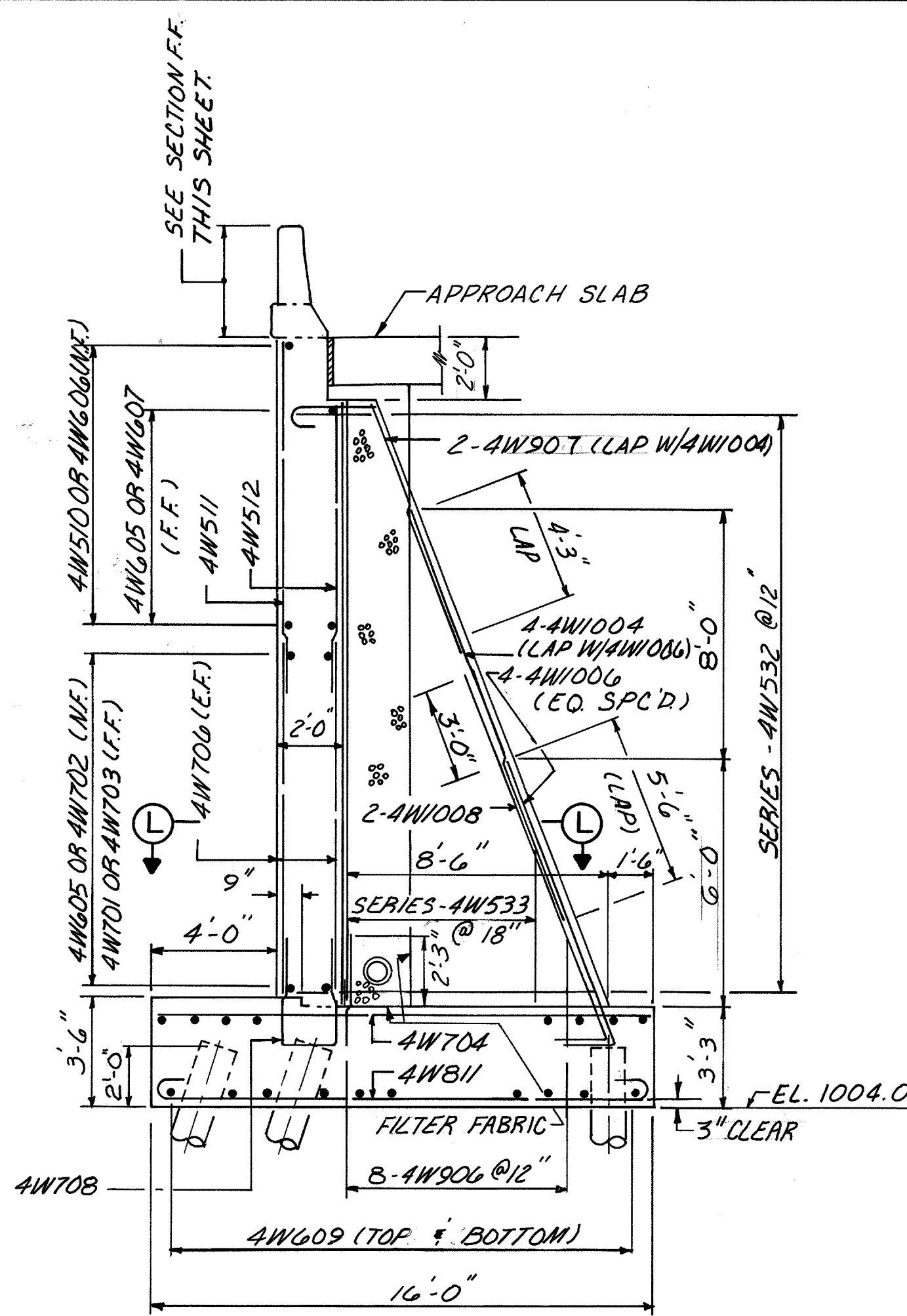
SUMMIT COUNTY
SUM 76-11.57



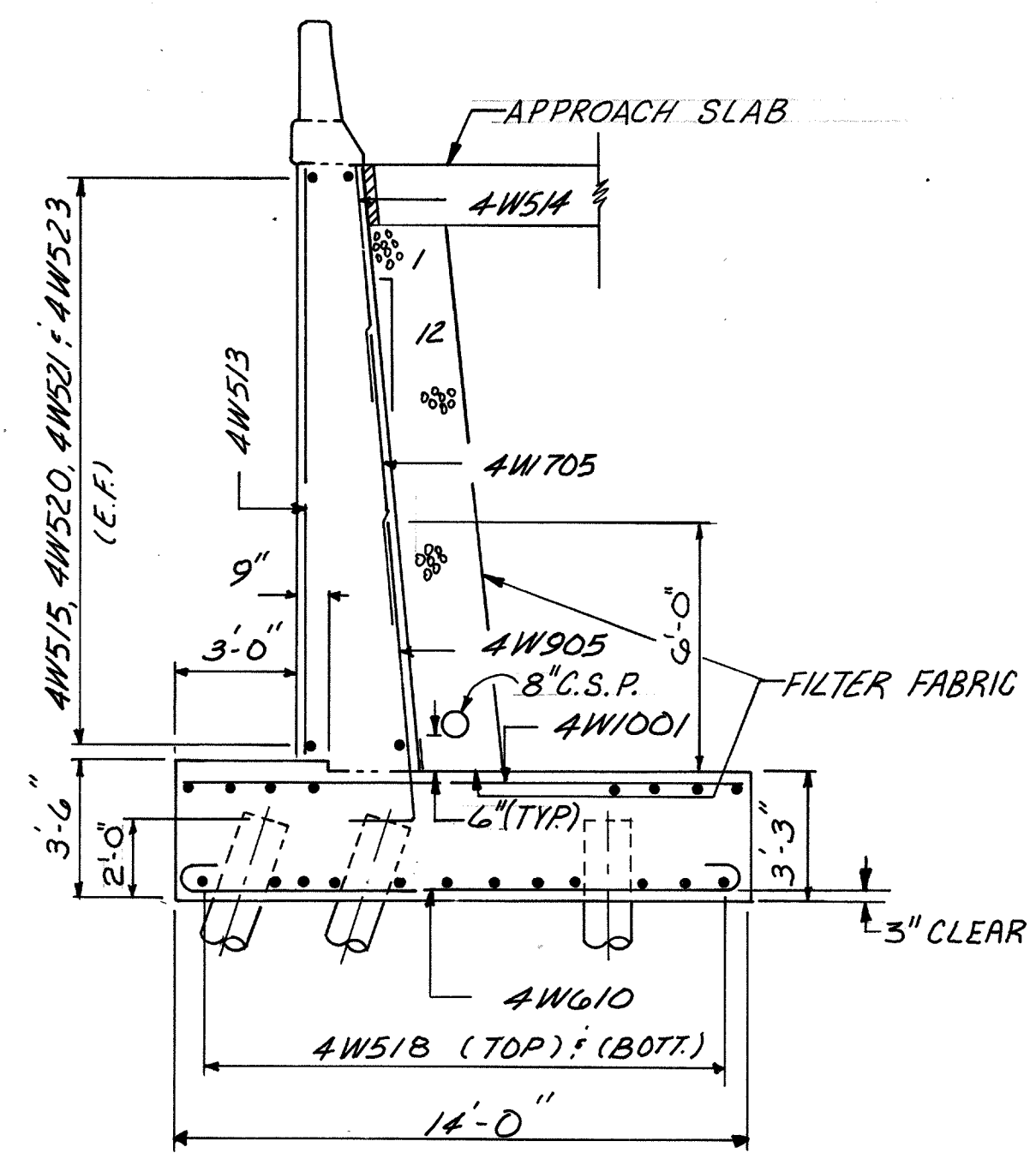
SECTION A-A



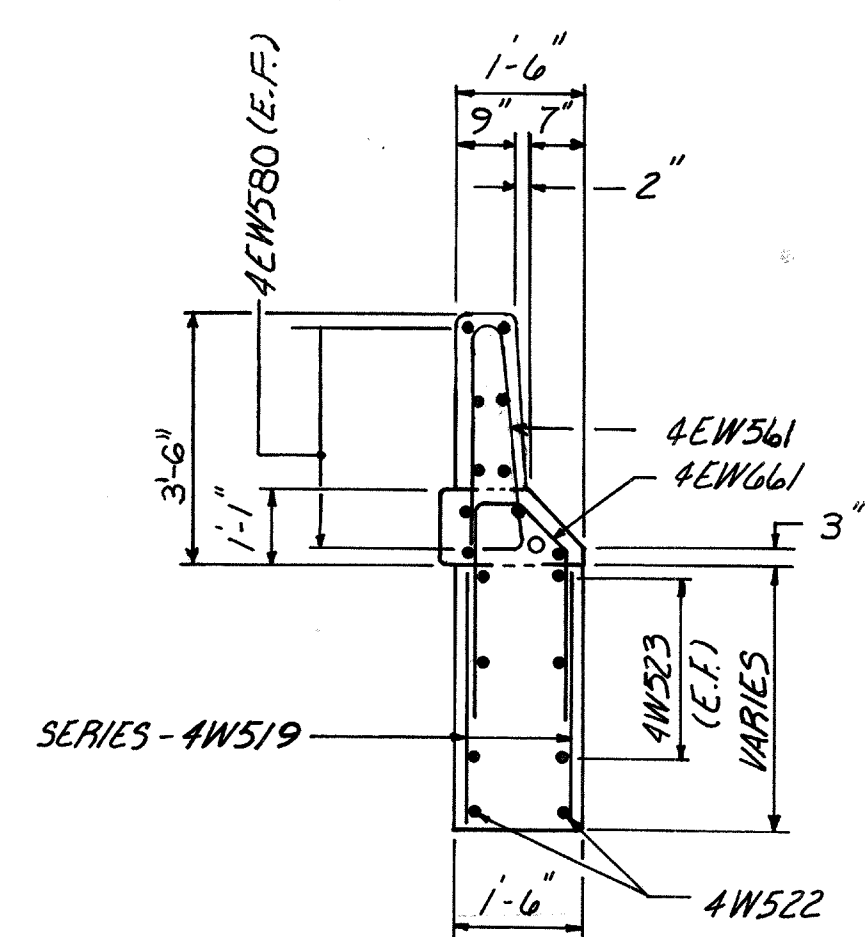
SECTION B-B



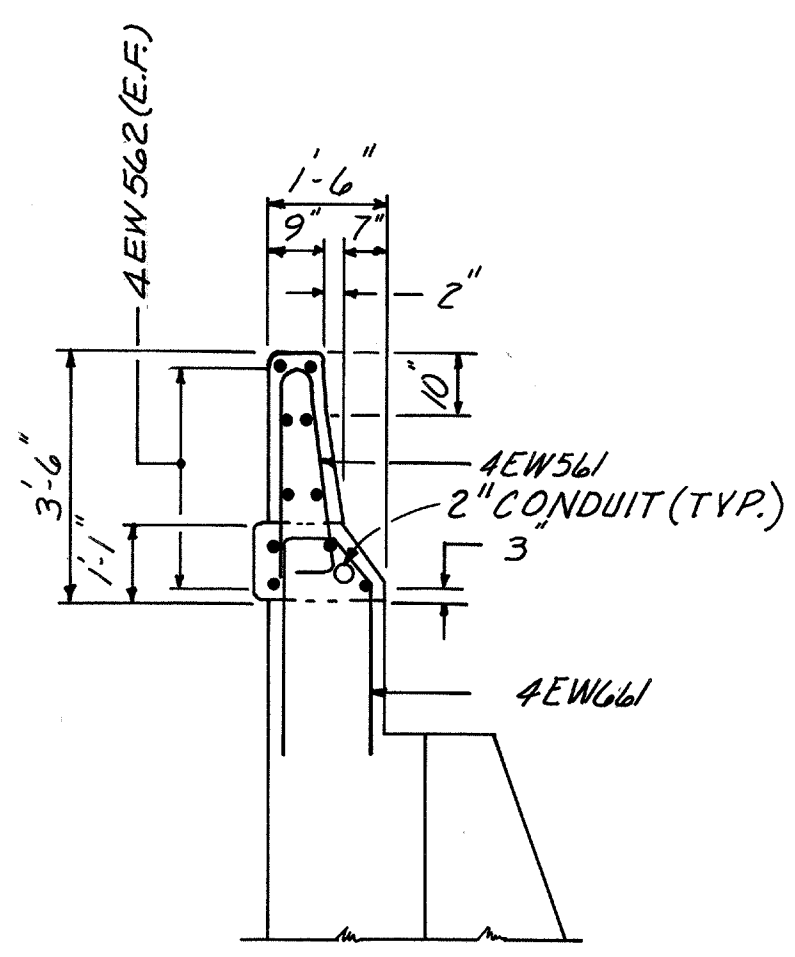
SECTION C-C



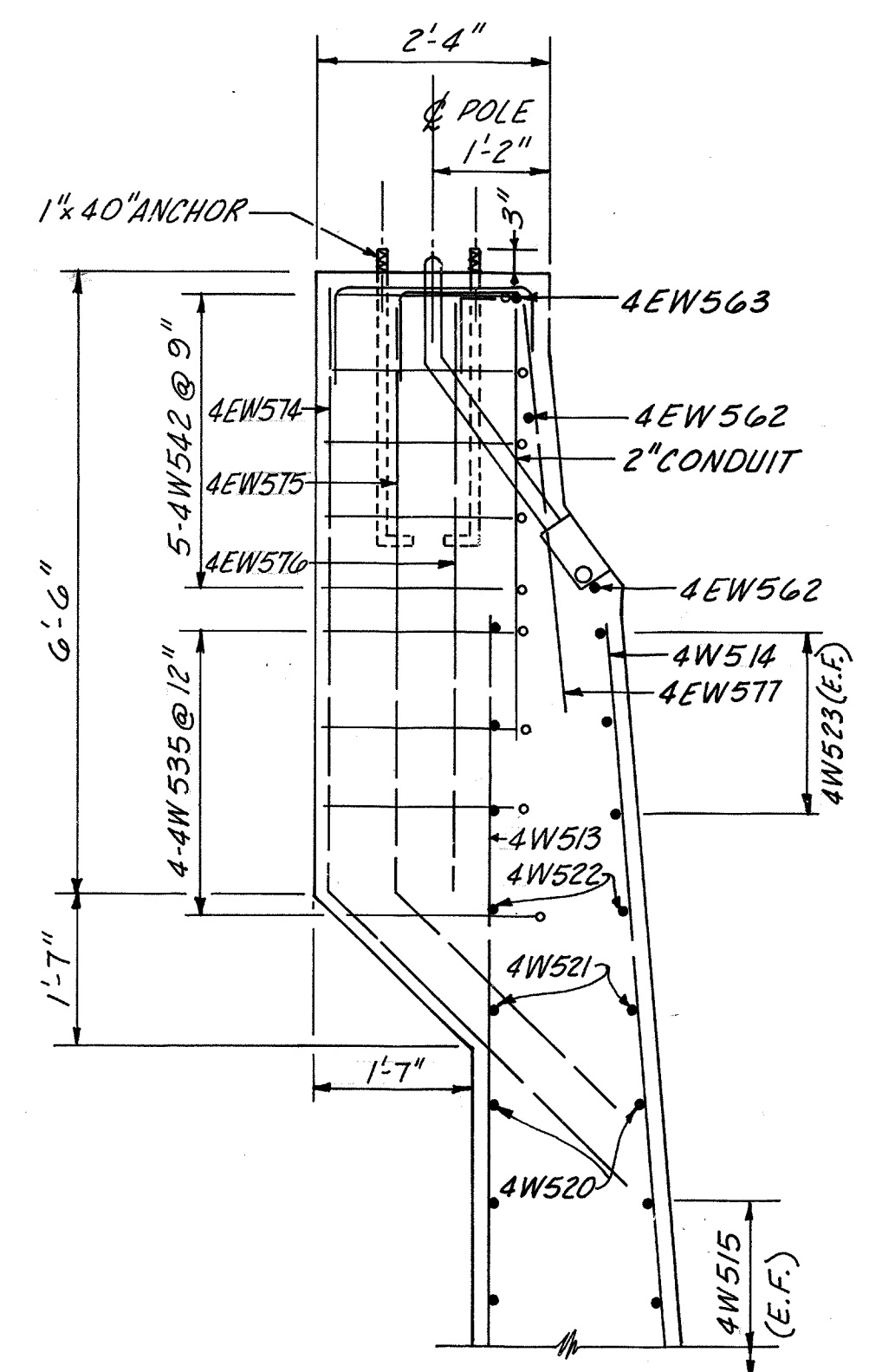
SECTION D-D



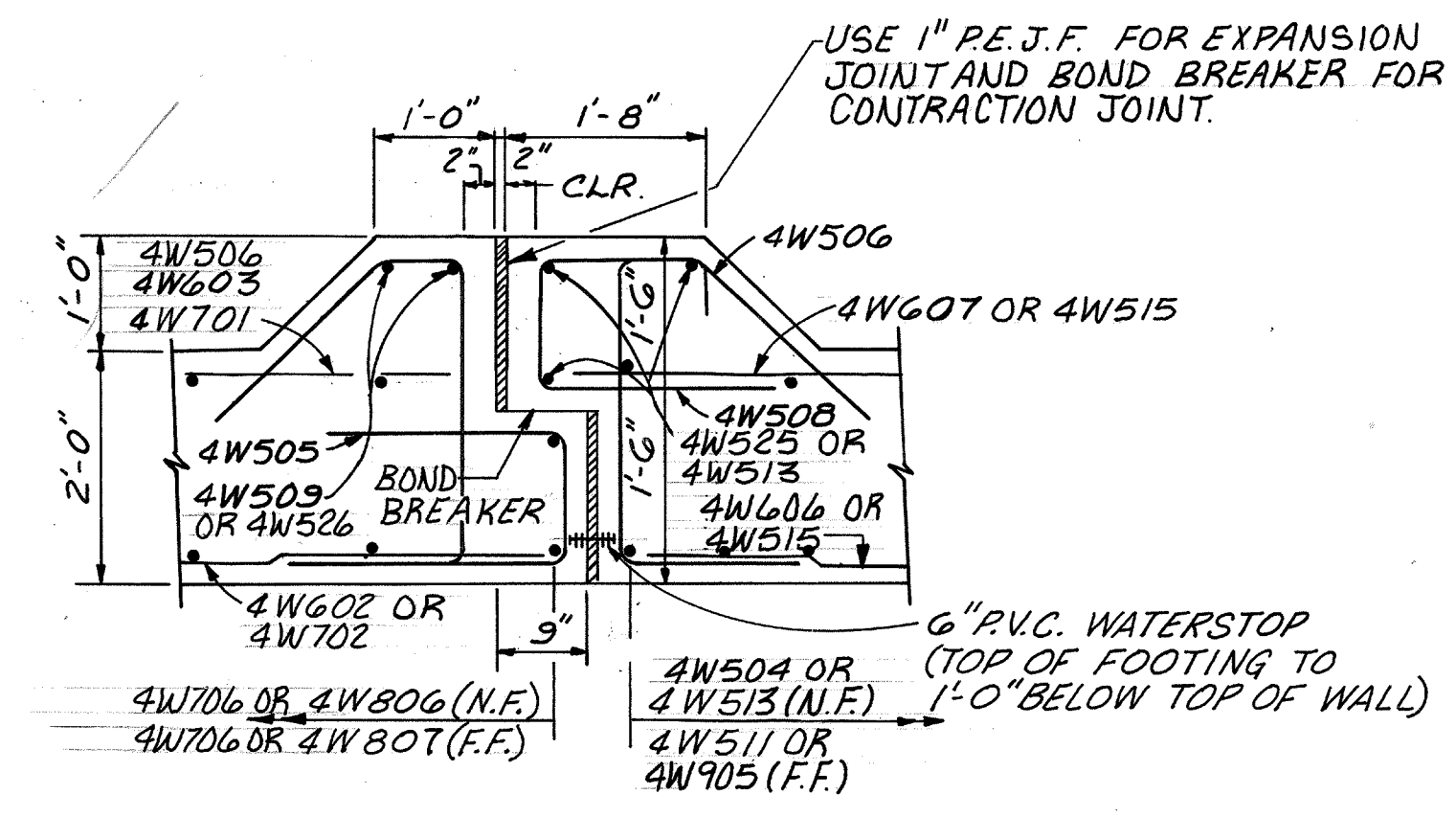
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

NOTES
① SEE NOTES 1 & 2, SHEET 25/120 FOR ADDITIONAL NOTES

DESIGNED		DRAWN		TRACED		CHECKED		REVIEWED		DATE		REVISED	
T.E.H.		J.D.P.				J.M.H.		J.B.H.		3-31-89			

McCoy Associates Inc. 51/120
CONSULTING ENGINEERS
AKRON, OHIO

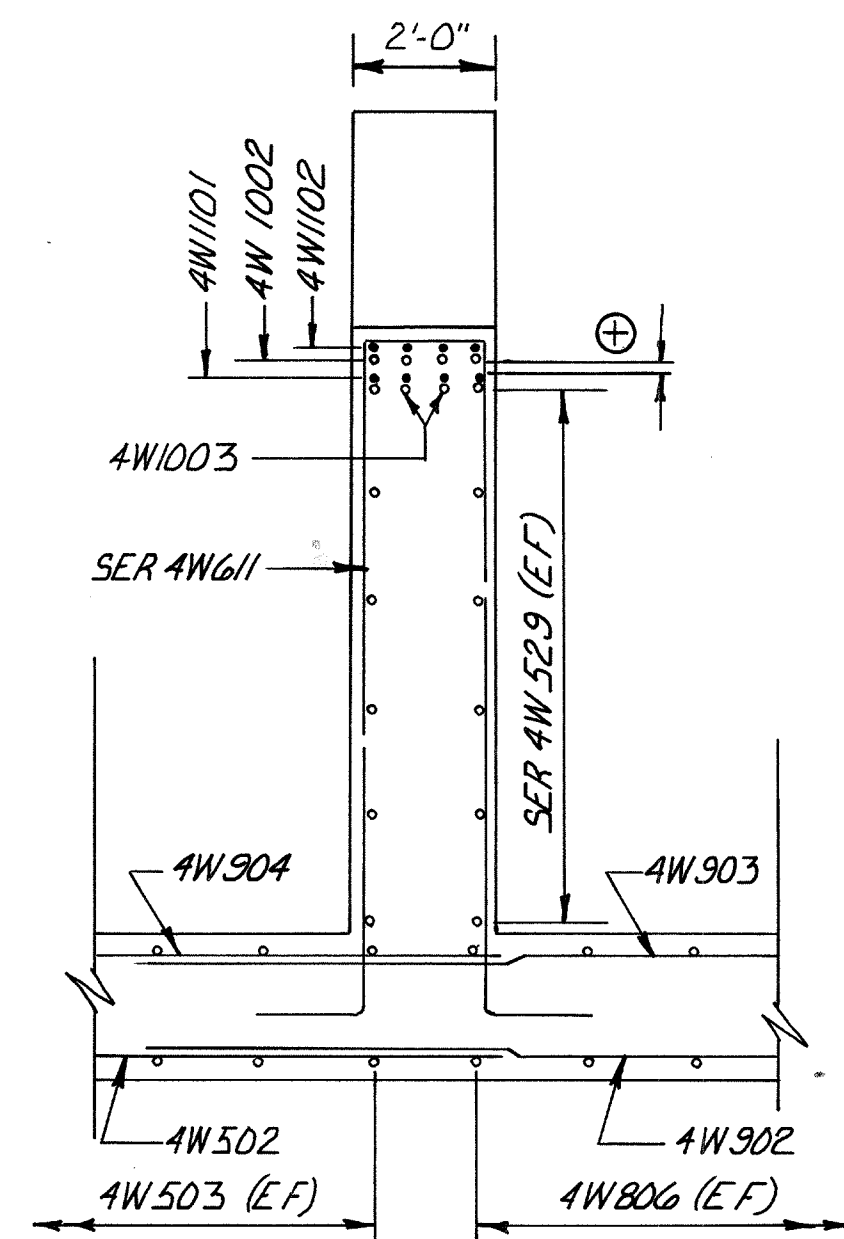
SOUTHEAST WINGWALL DETAILS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

FHWA REGION	STATE	PROJECT	
5	OHIO		

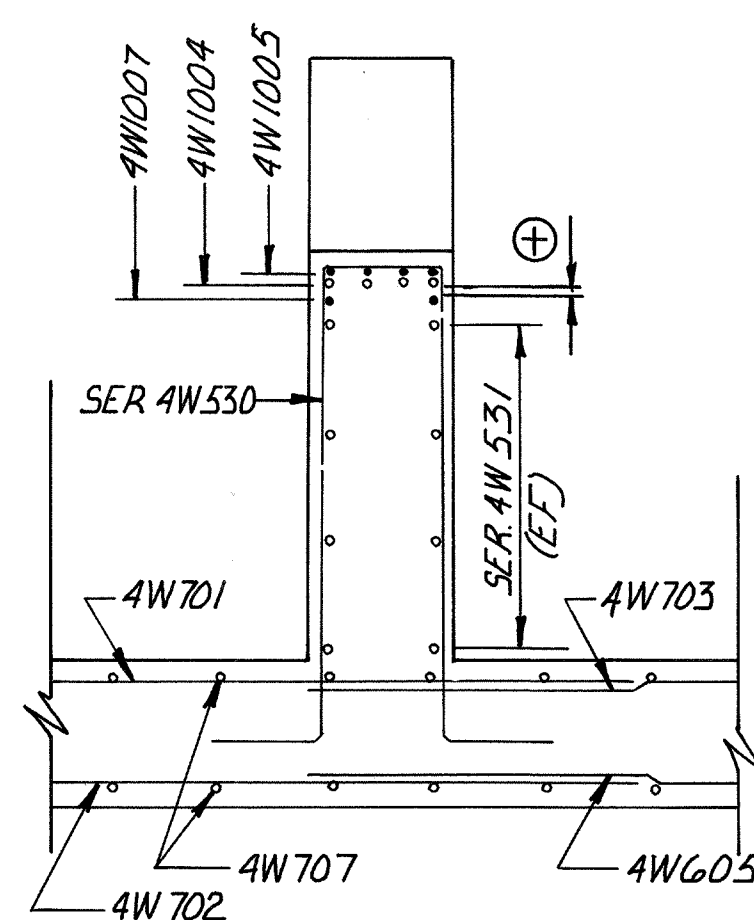
994
12.14

SUMMIT COUNTY
SUM 76-11.57

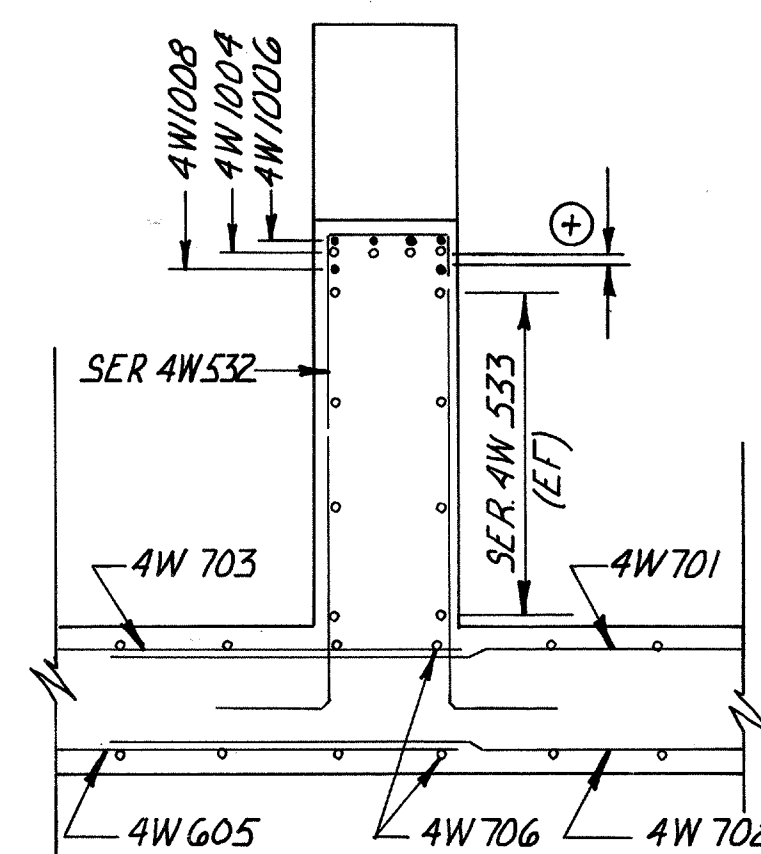
⊕ - INDICATES 2 1/2" (MIN.) CLEAR BETWEEN ROWS OF BARS.



SECTION J-J



SECTION K-K



SECTION L-L

McCOY ASSOCIATES, INC. 51A/120
CONSULTING ENGINEERS
AKRON, OHIO

**SOUTHEAST WINGWALL
DETAILS**

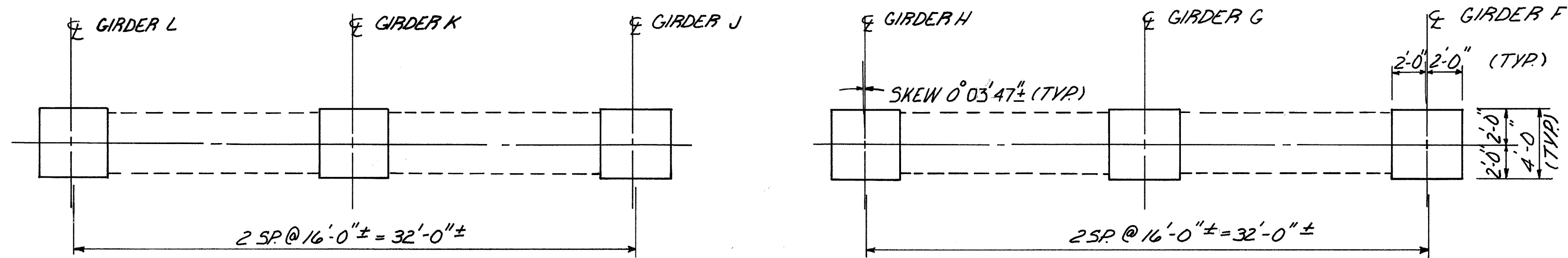
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JMH	J.W.D.		JBH	JBH	11-01-89	

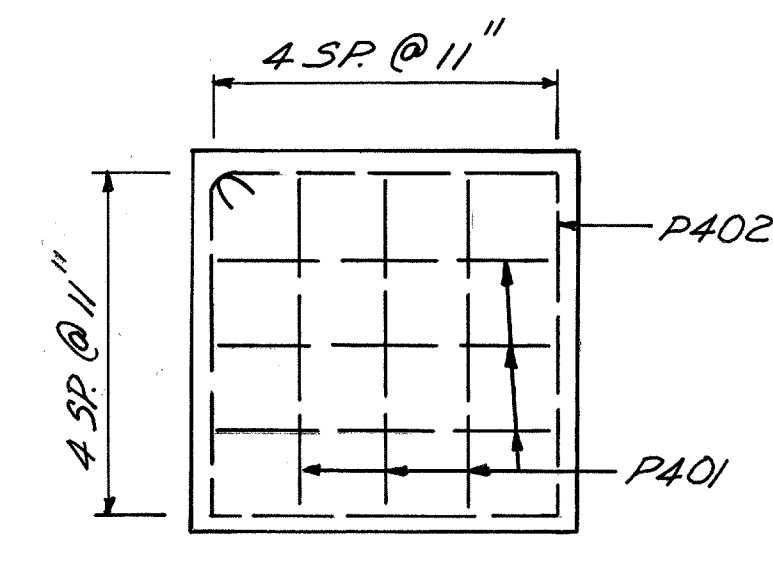
FHWA REGION	STATE	PROJECT
5	OHIO	

99.5
1214

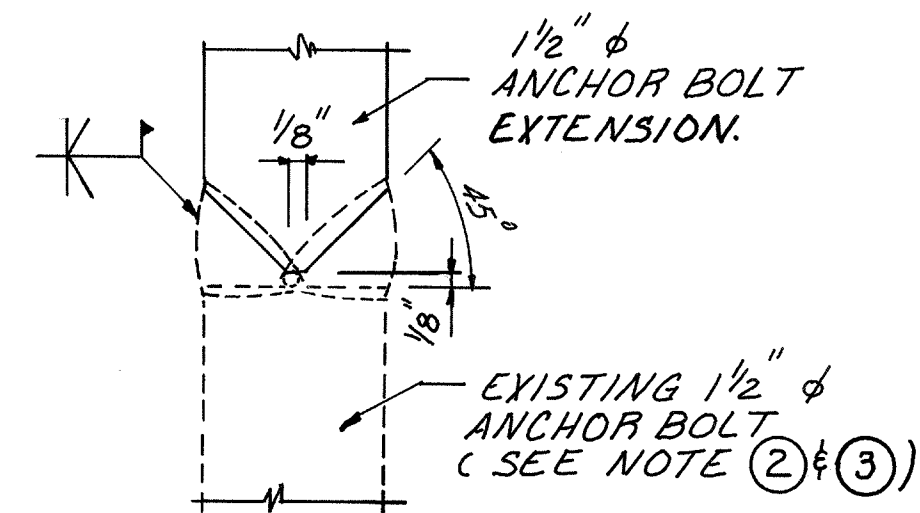
SUMMIT COUNTY
SUM 76-11.57



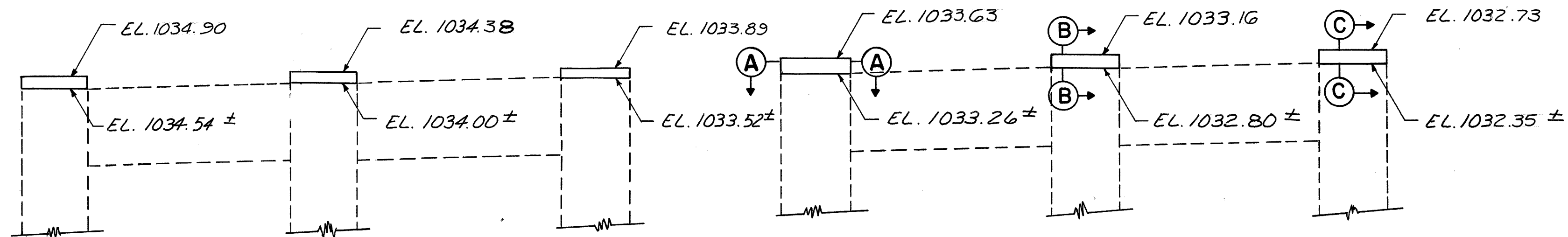
PLAN



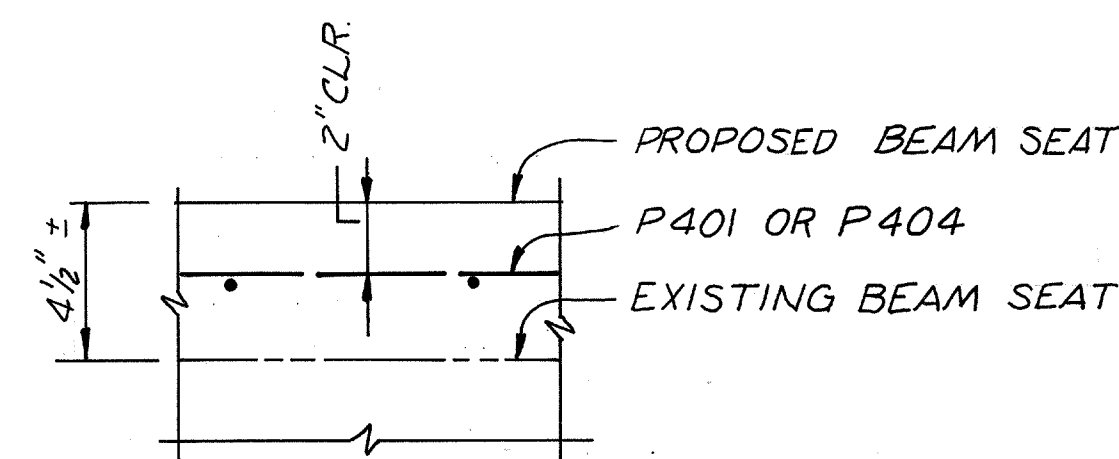
SECTION A-A



DETAIL A

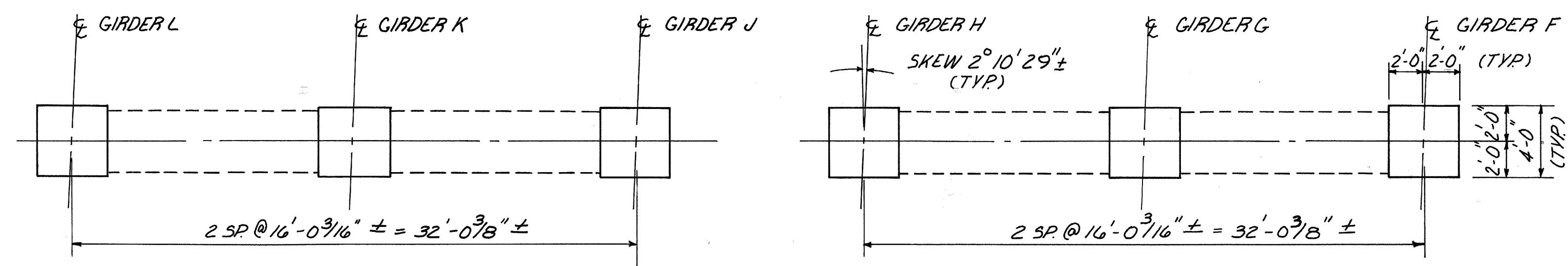


ELEVATION

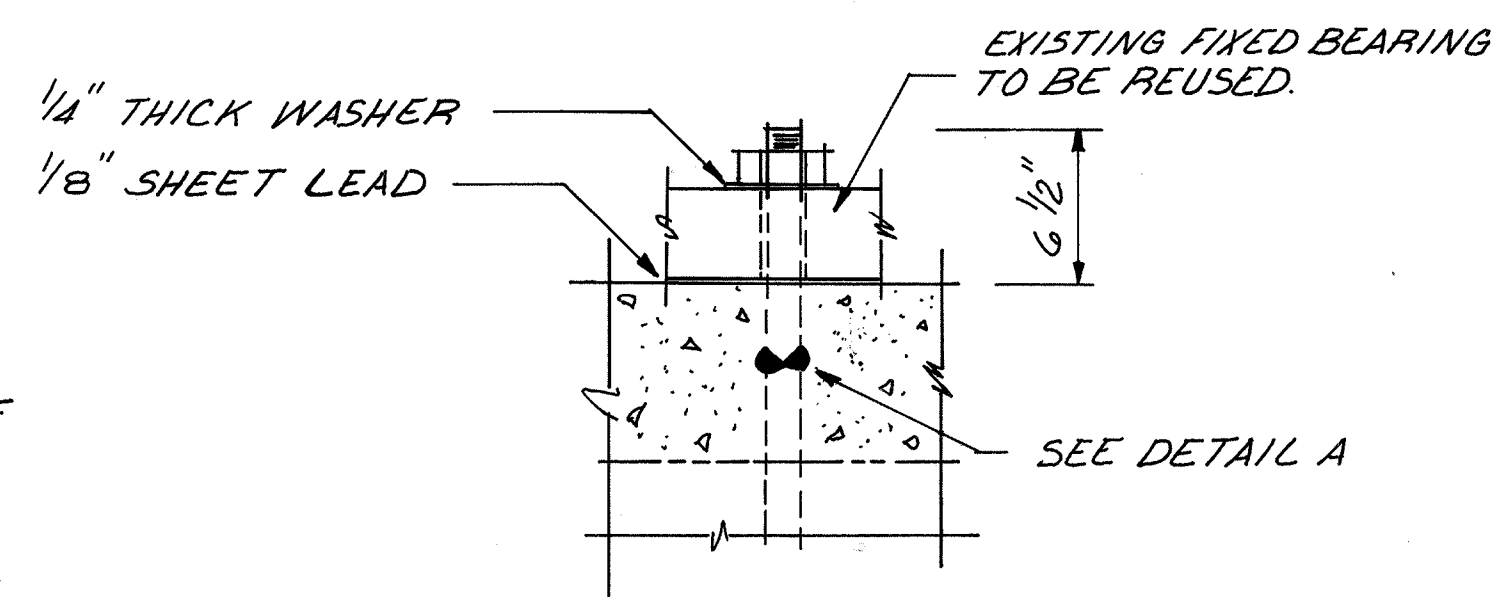


SECTION B-B

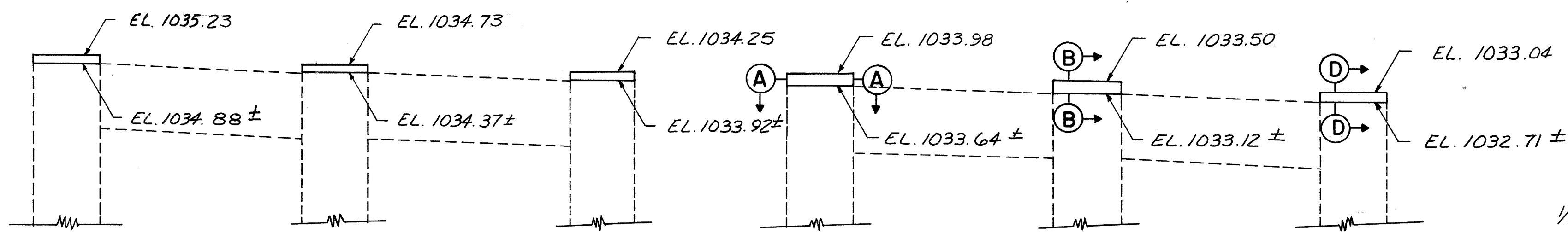
PIER No. 1



PLAN



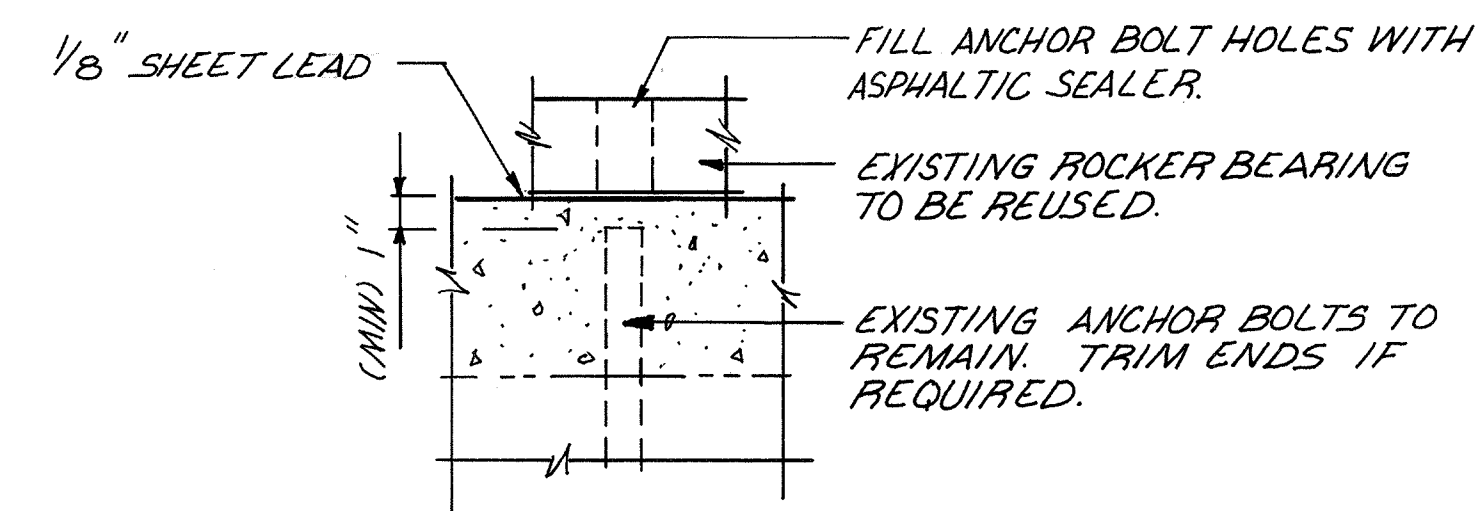
SECTION C-C



ELEVATION

PIER No. 2

NOTE: FOR LOCATION AND QUANTITY FOR PATCHING PIER NO. 2 SEE SHEET. 19/120



SECTION D-D

NOTES:

- EXISTING CAP ELEVATIONS SHALL BE VARIED IN THE FIELD
- CUT EXISTING ANCHOR BOLTS TO BE EXTENDED AT 2 INCHES ABOVE EXISTING TOP OF CAP.
- IF THE EXISTING ANCHOR BOLT DOES NOT HAVE SUFFICIENT CROSS-SECTIONAL AREA TO WELD PROPERLY, REMOVE CONCRETE TO A DEPTH TO OBTAIN SUITABLE MATERIAL WITH SUFFICIENT CROSS-SECTIONAL AREA TO WELD PROPERLY. THE COST OF REMOVING AND REPLACING THE CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516, REFURBISH BEARING DEVICES, AS PER PLAN.
- PIER CAPS ARE TO BE SOUNDED AND DETERIORATED CONCRETE REMOVED FROM THE PIER CAP BEFORE COMPLETING THE REPAIR SHOWN IN SECTION C-C.
- ALL WORK SHOWN SHALL BE COORDINATED WITH RAISING EXISTING STRUCTURAL STEEL.

McCoy Associates Inc. 52/120
CONSULTING ENGINEERS
AKRON, OHIO

PIERS No. 1 & 2
MODIFICATIONS

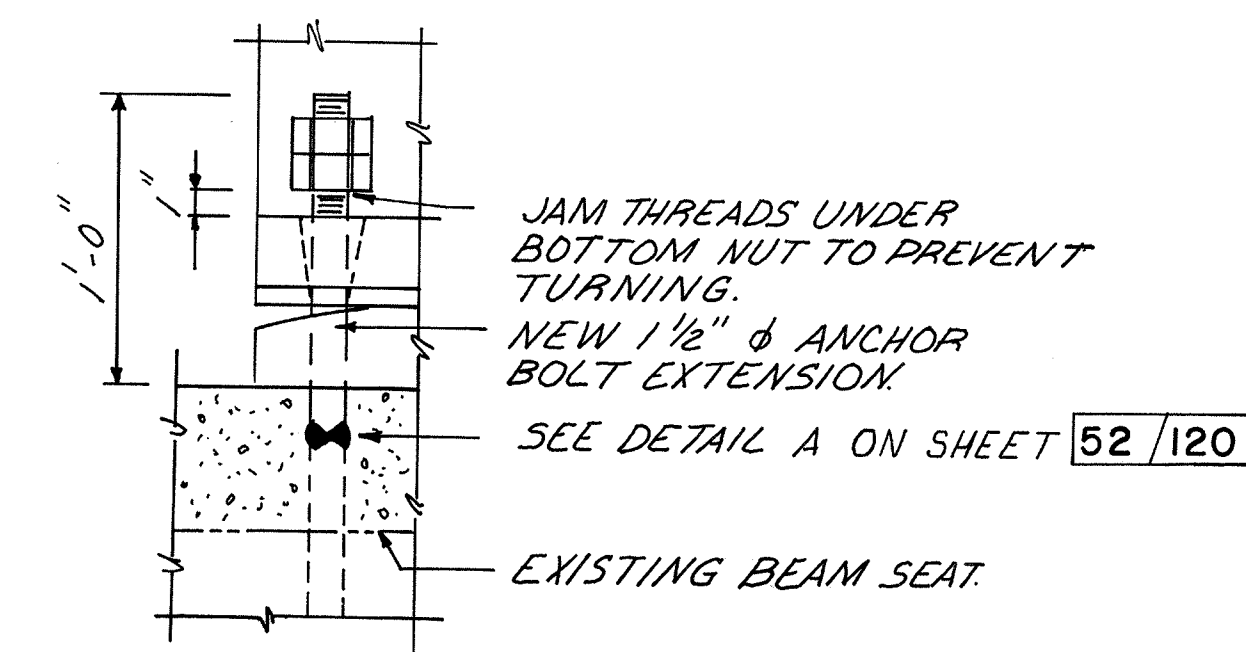
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	A.M.	J.B.H.	J.B.H.	3-30-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

992
1214

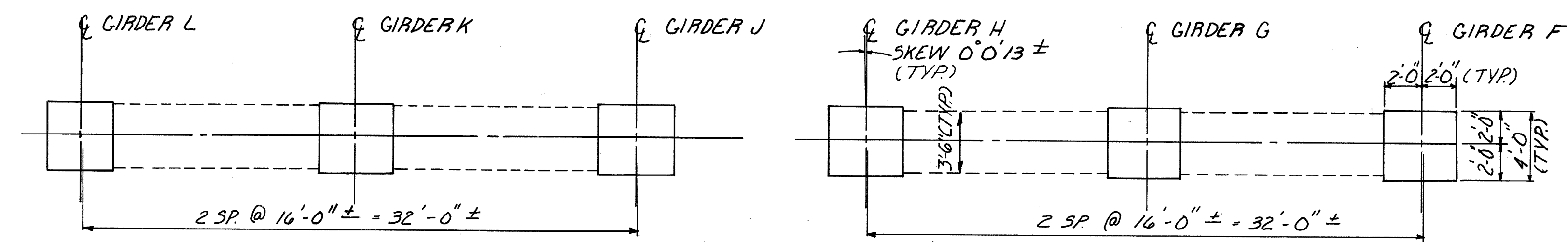
SUMMIT COUNTY
SUM 76-11.57



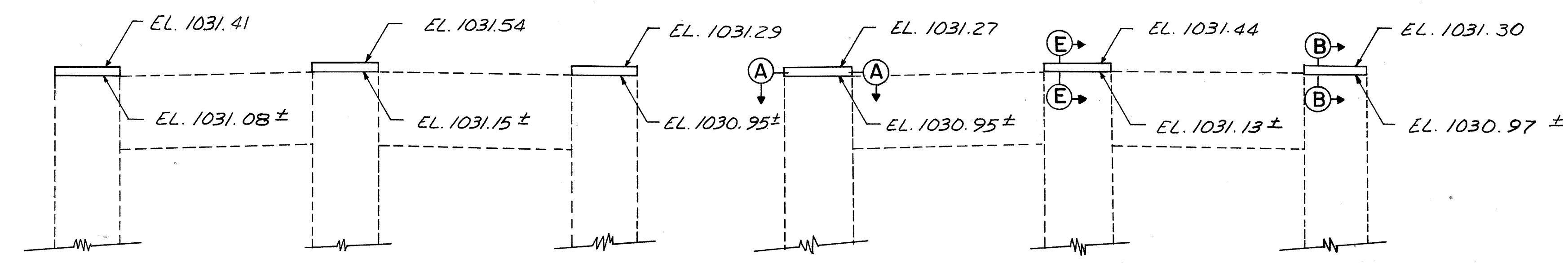
SECTION E-E

NOTES:

- ① ABBREVIATIONS
U.N.O. = UNLESS NOTED OTHERWISE
- ② FOR SECTIONS A-A, B-B, C-C, NOTES & DETAIL A SEE SHEET 52/120
- ③ EXISTING CAP ELEVATIONS SHALL BE VERIFIED IN THE FIELD.



PLAN



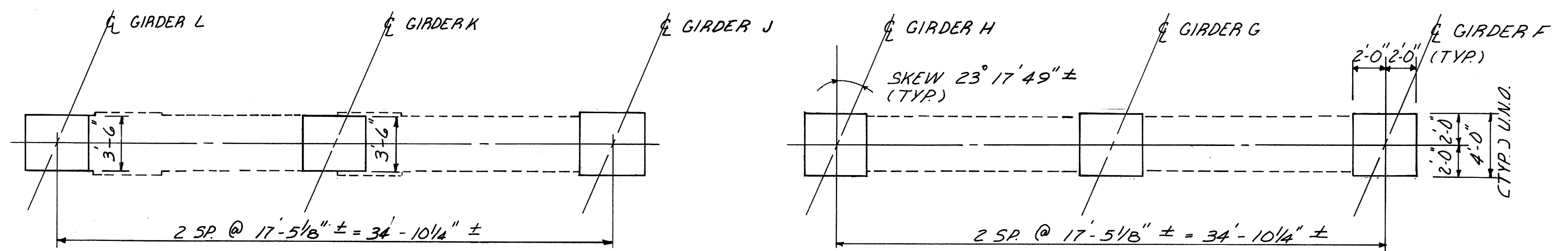
**ELEVATION
PIER No 4**

NOTE: FOR LOCATION AND QUANTITY OF PATCHING SEE SHEET 21/120.

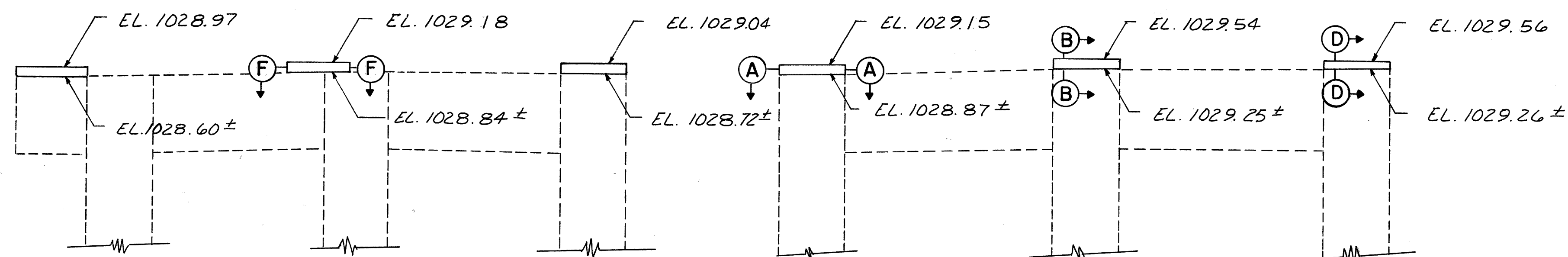
McCOY ASSOCIATES INC. 53/120
CONSULTING ENGINEERS
AKRON, OHIO

**PIER No 4
MODIFICATIONS**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	A.M.	JBH	JBH	3-30-87	



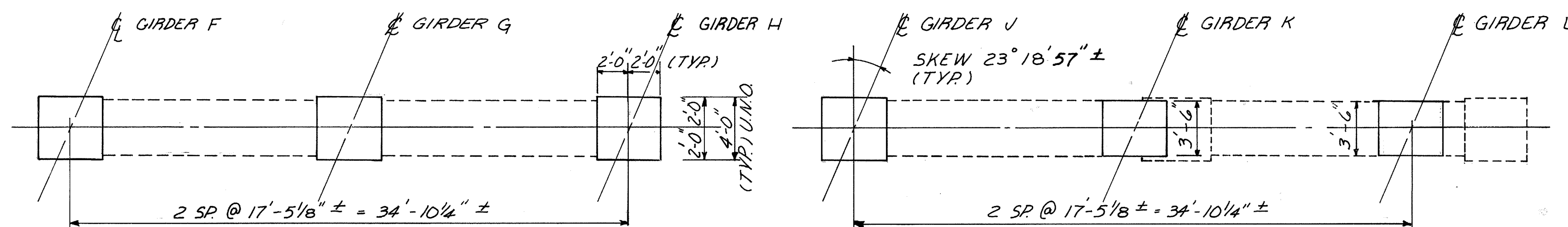
PLAN



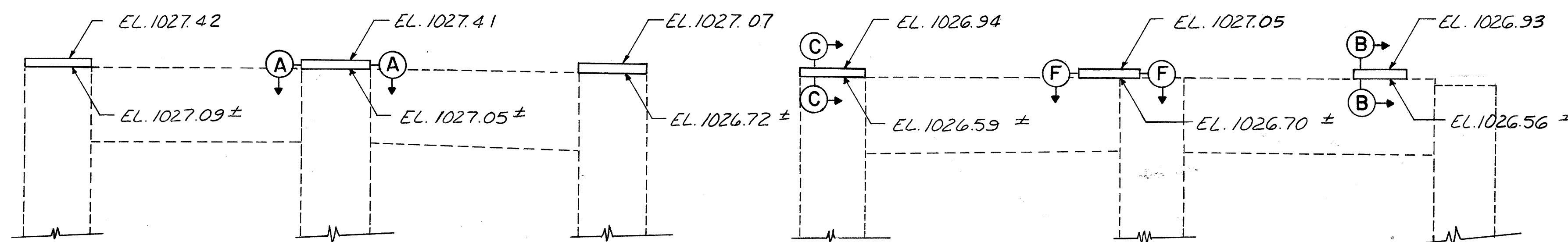
ELEVATION

NOTE: FOR LOCATION AND QUANTITIES FOR PIER NO. 5 PATCHING SEE SHEET 22/120

PIER No 5



PLAN



ELEVATION

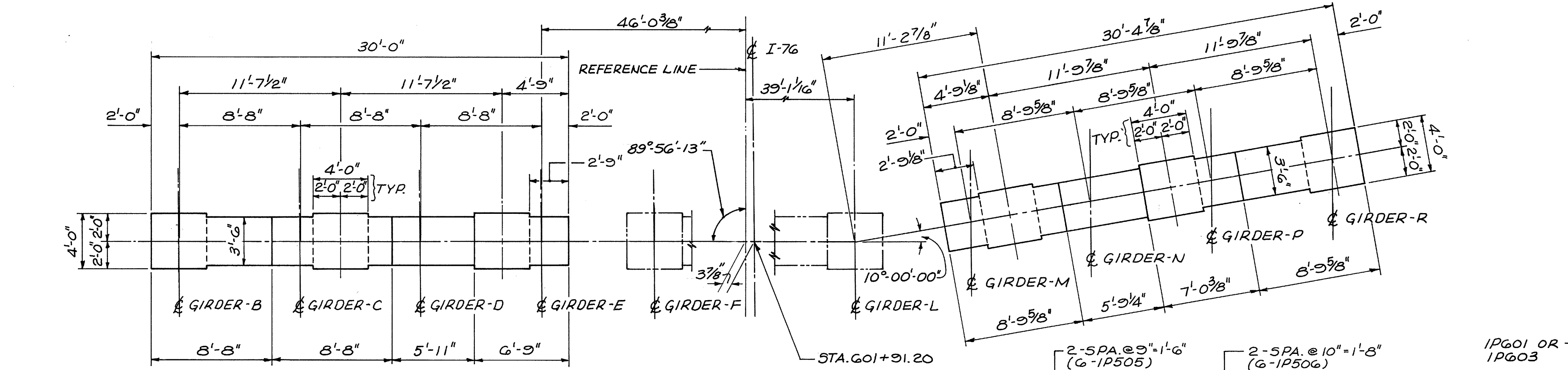
NOTE: FOR LOCATIONS AND QUANTITIES FOR PIER NO. 6 PATCHING SEE SHEET 23/120

PIER No 6

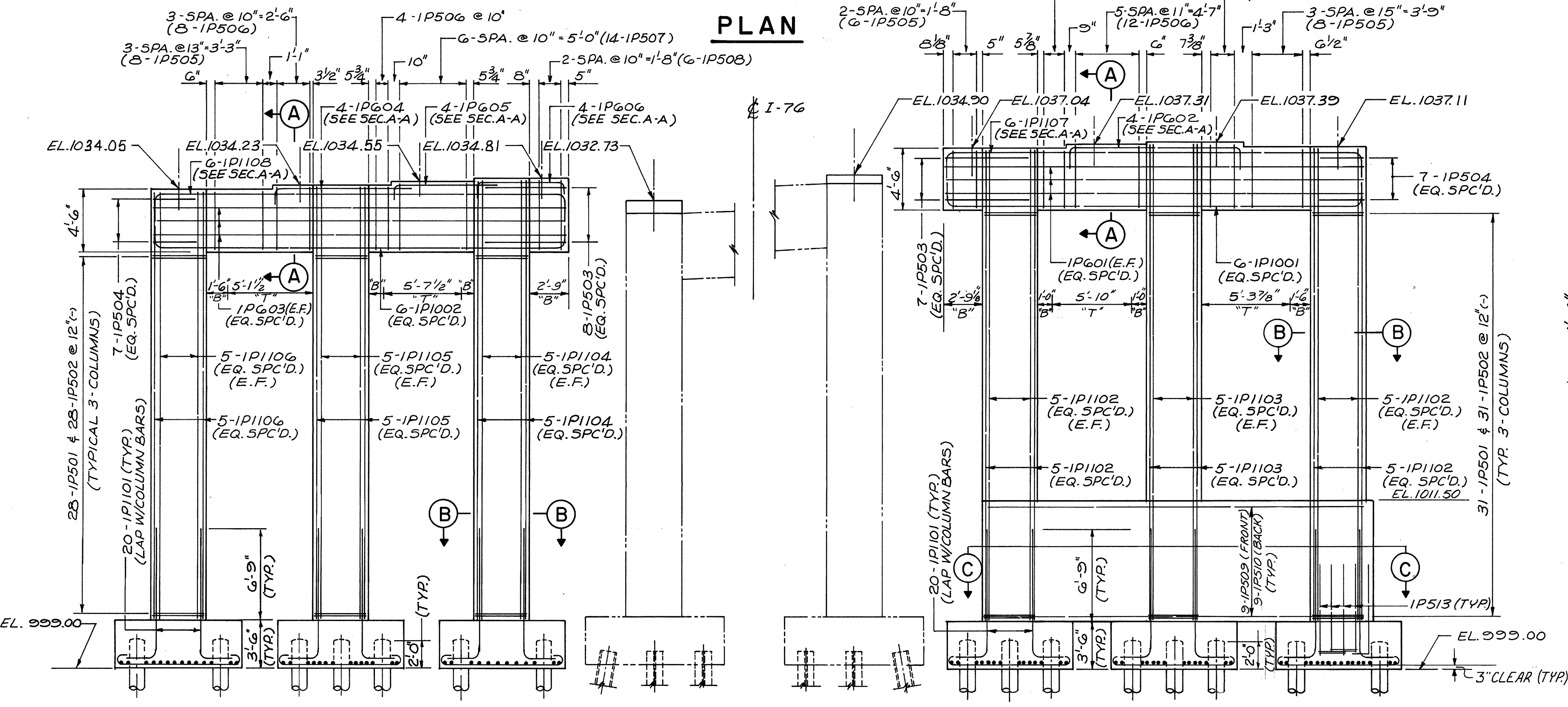
NOTES:

- ① ABBREVIATIONS
U.N.O. = UNLESS NOTED OTHERWISE
- ② FOR SECTIONS A-A, B-B, C-C & D-D,
SEE SHEET 52/120
FOR SECTION E-E & F-F,
SEE SHEET 53/120
- ③ EXISTING CAP ELEVATIONS SHALL BE
VERIFIED IN THE FIELD.

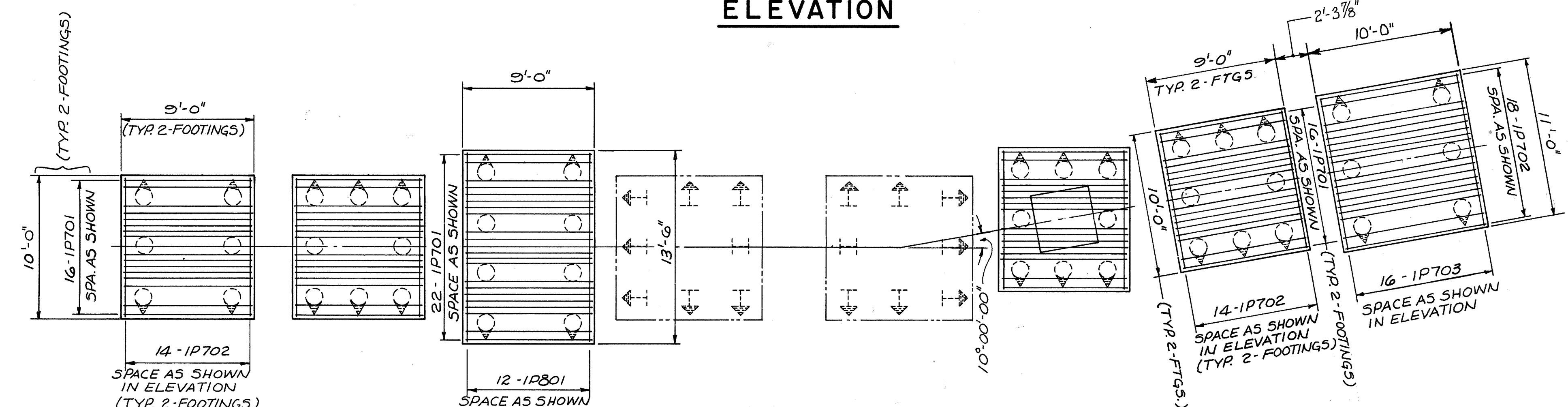
**SUMMIT COUNTY
SUM 76-11.57**



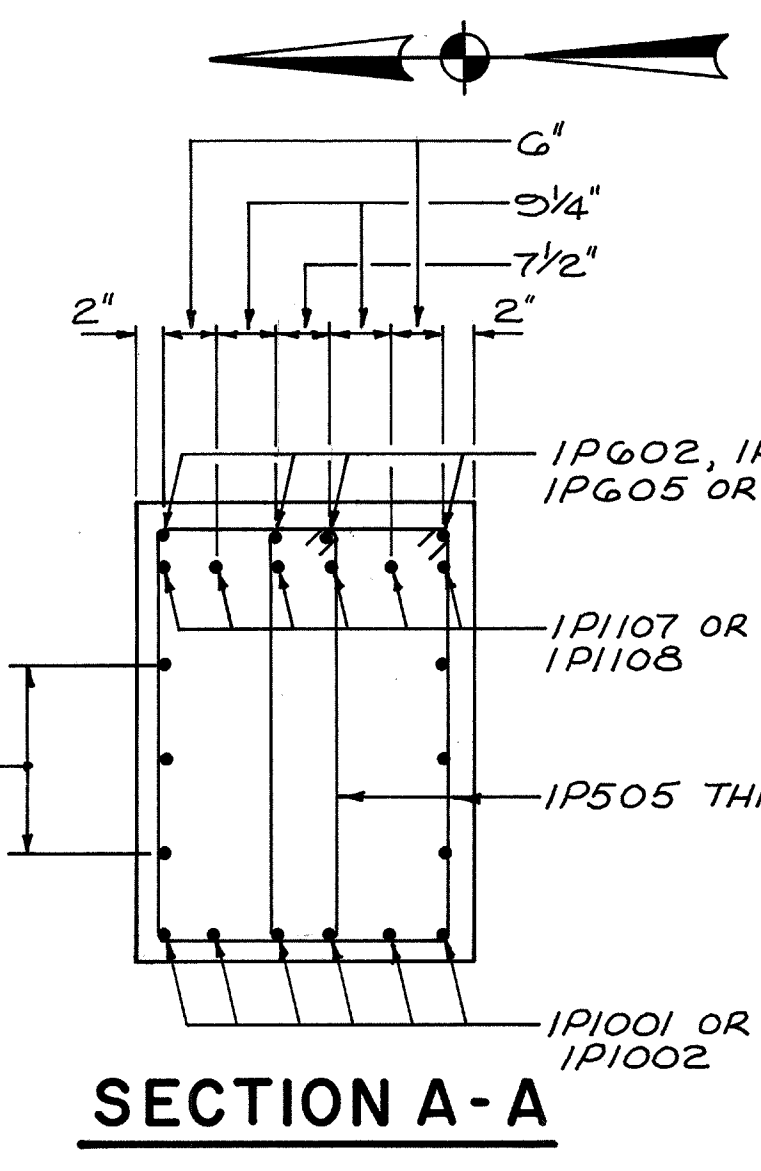
PLAN



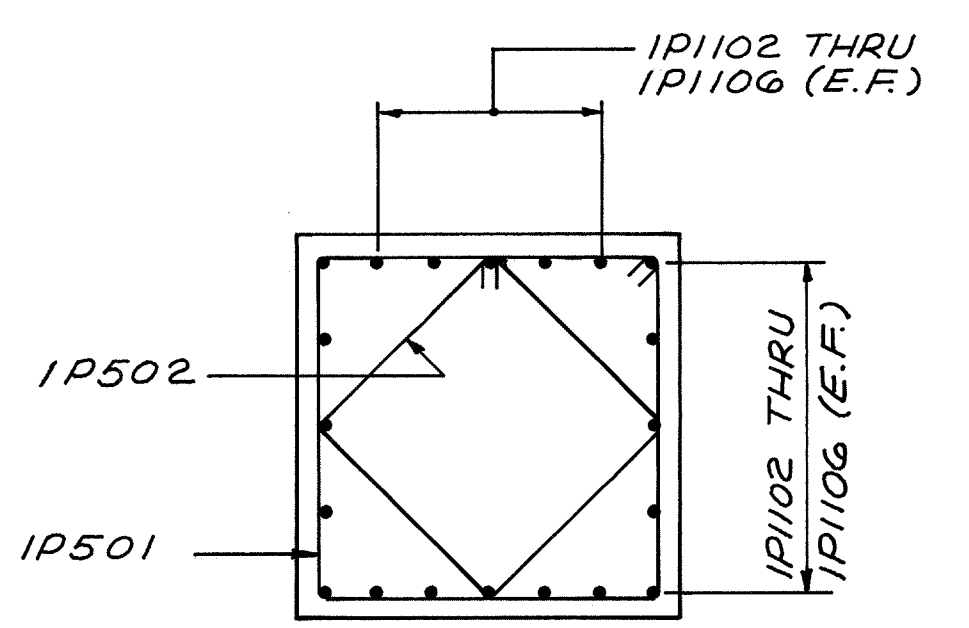
ELEVATION



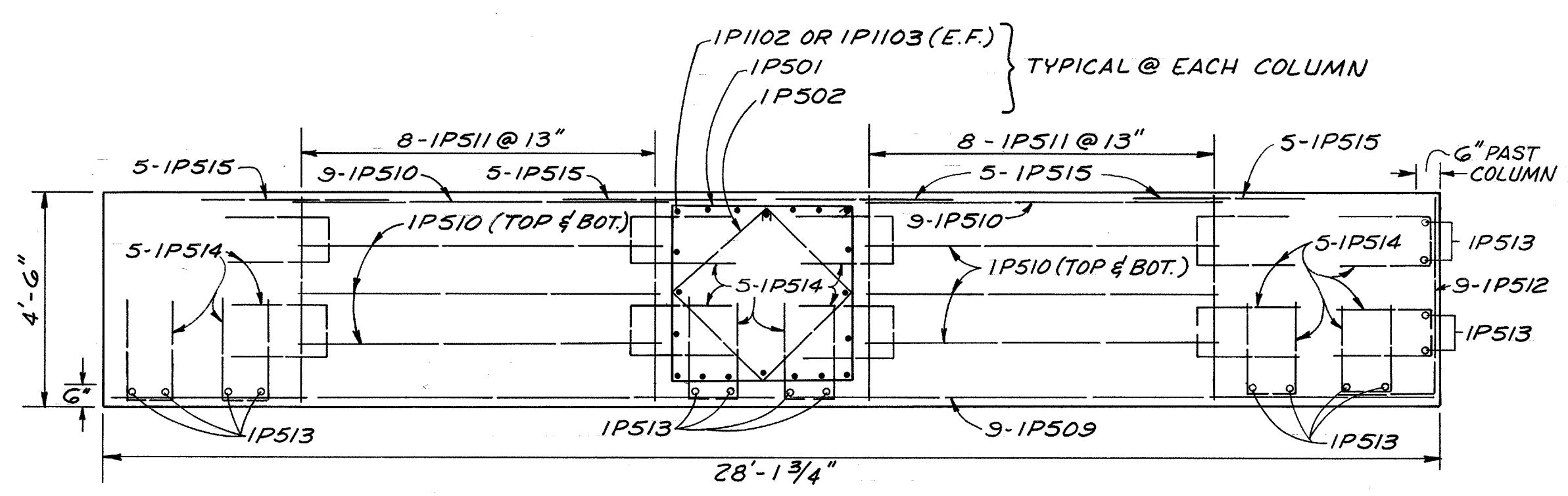
FOOTING PLAN



SECTION A-A



SECTION B-B



SECTION C-C (CRASH WALL DETAIL)

NOTES

- ABBREVIATIONS:
E.F. = EACH FACE
- IN PIER CAPS, HOOKS SHALL BE PLACED AT TOP WHERE NOTED "T" AND AT BOTTOM WHERE NOTED "B".
- BEARING SEAT REINFORCING: REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRESETTING OF BEARING ANCHORS.
- BEARING ANCHORS: AT THE OPTION OF THE CONTRACTOR, BEARING ANCHORS (OR FORMED HOLES) LOCATED AND SUPPORTED BY TEMPLATES, MAY BE CAST IN PLACE.

McCOY ASSOCIATES INC. 55/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER No 1 DETAILS

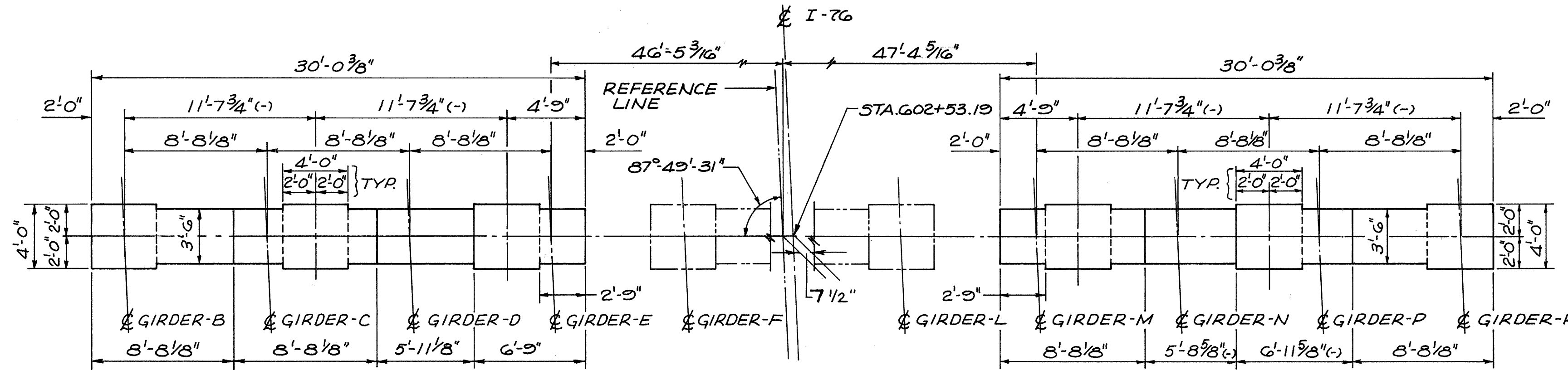
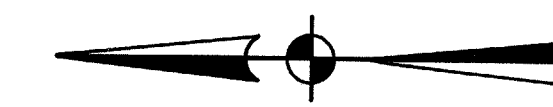
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.P.		J.B.H.	J.B.H.	9-30-87	
T.E.N.						

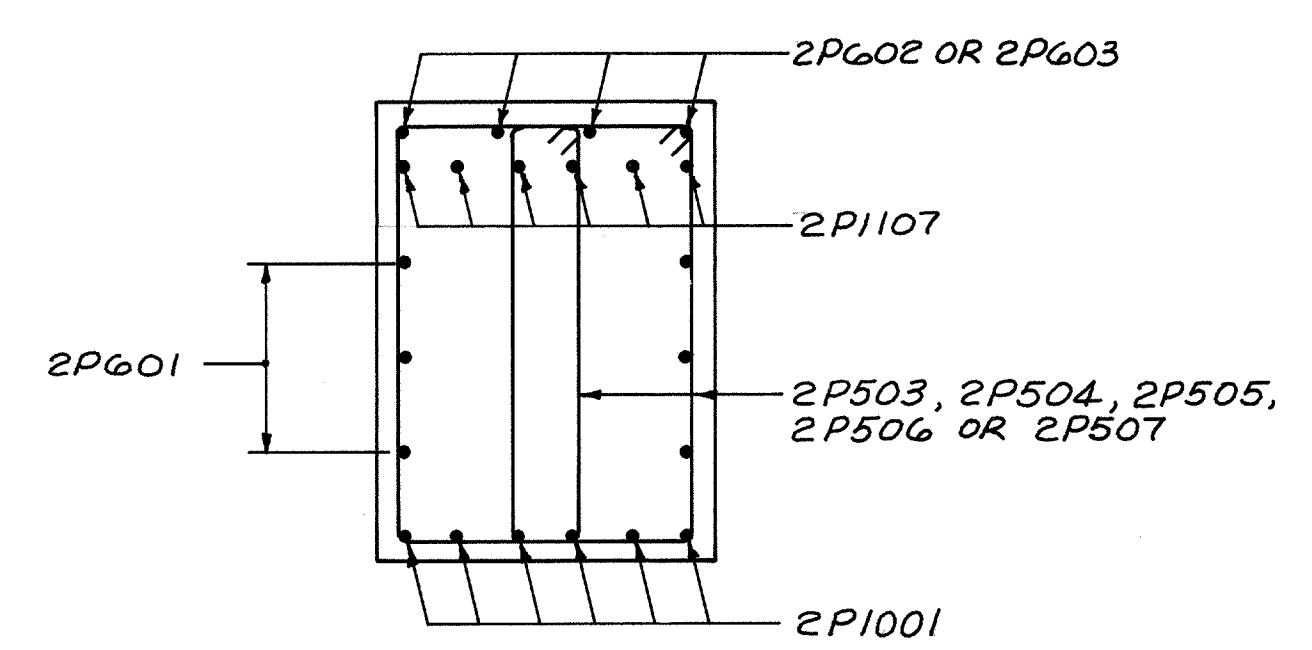
FHWA REGION	STATE	PROJECT	
5	OHIO		

999
1214

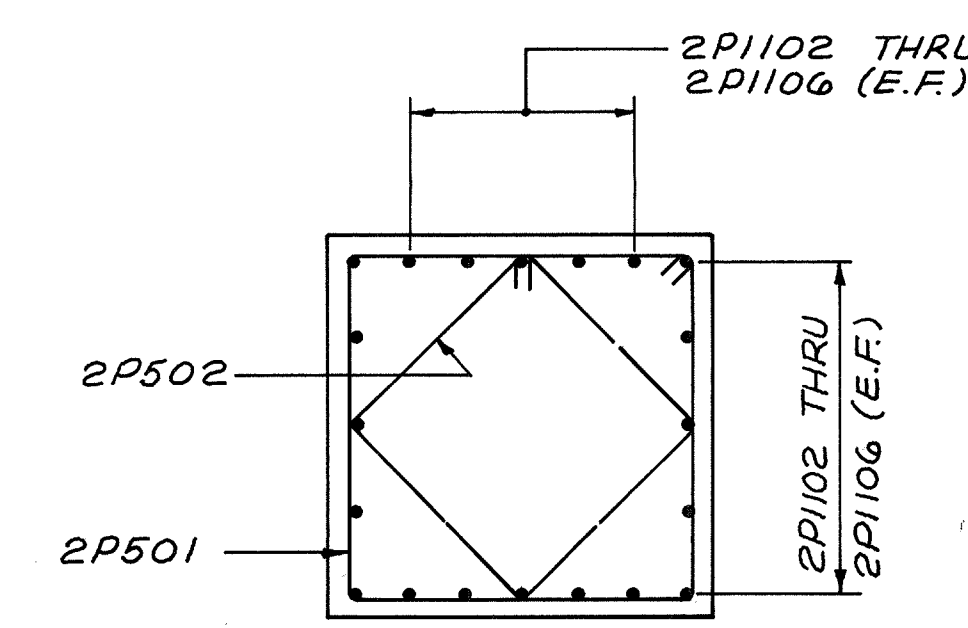
SUMMIT COUNTY
SUM 76-11.57



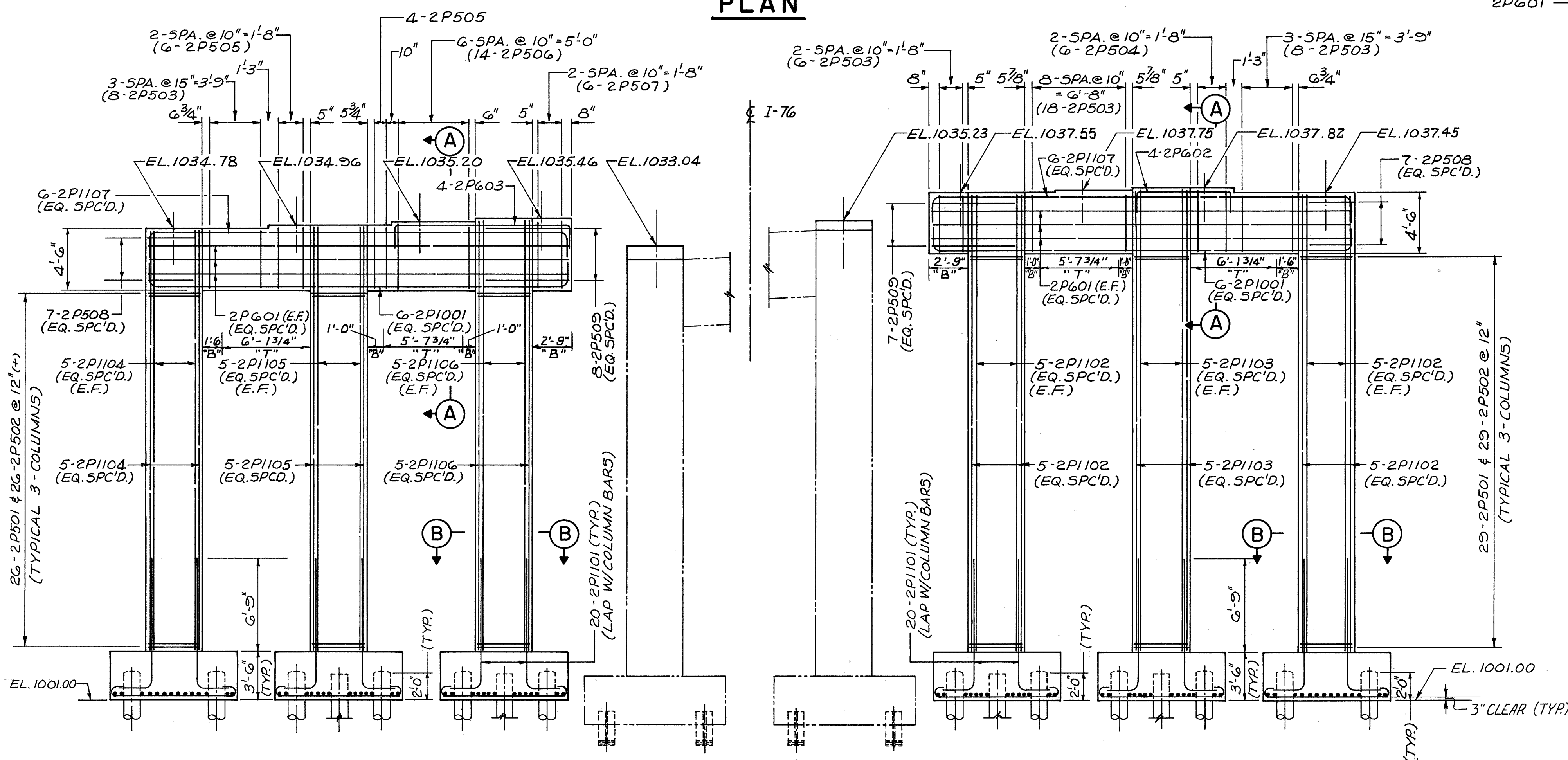
PLAN



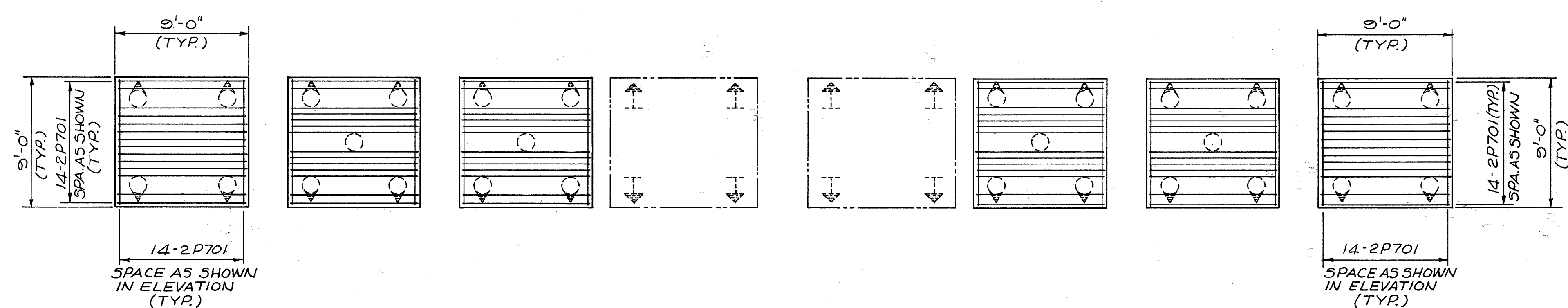
SECTION A-A



SECTION B-B



ELEVATION



FOOTING PLAN

- NOTES:**
- ABBREVIATIONS
E.F. = EACH FACE
 - IN PIER CAPS, HOOKS SHALL BE PLACED AT TOP WHERE NOTED "T" AND AT BOTTOM WHERE NOTED "B"

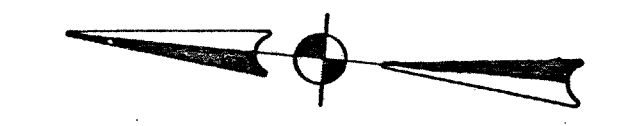
McCOY ASSOCIATES INC. 56/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER No 2 DETAILS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

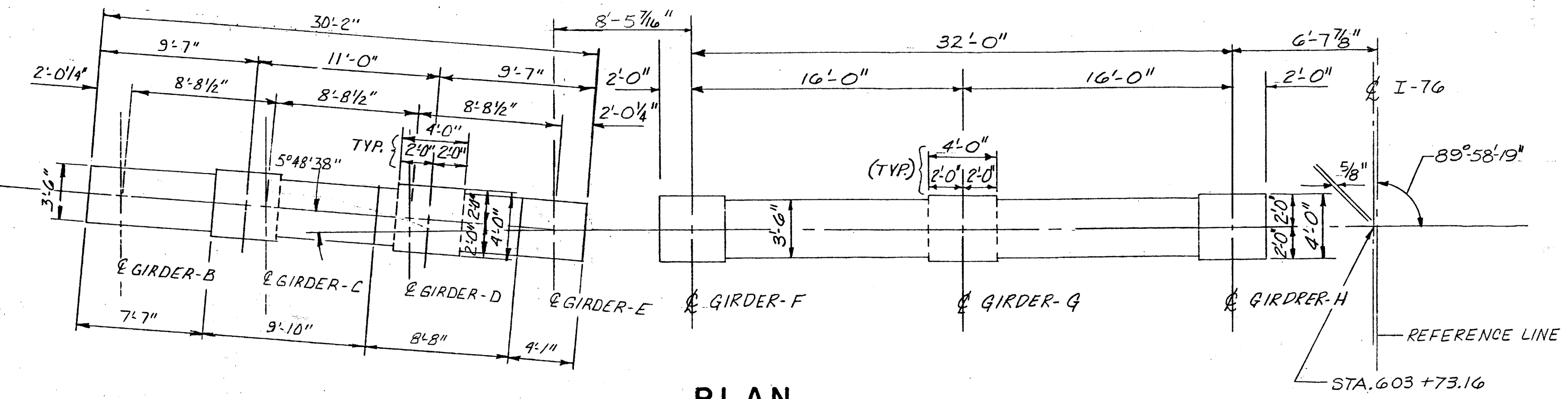
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.P.		J.B.H.	J.B.H.	3-30-89	
T.E.N.						

SUMMIT COUNTY
SUM 76-11.57

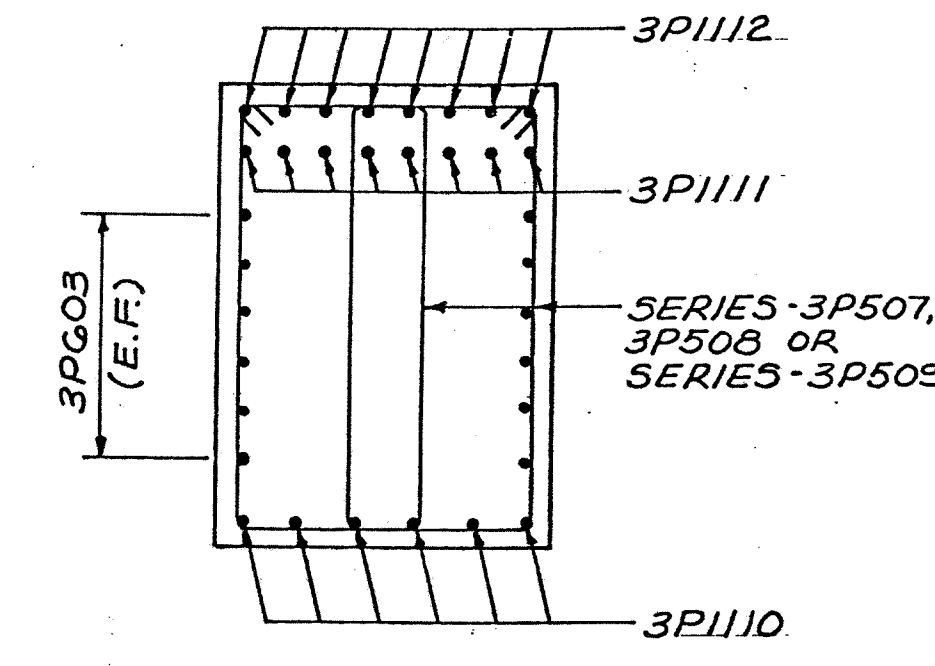


NOTES

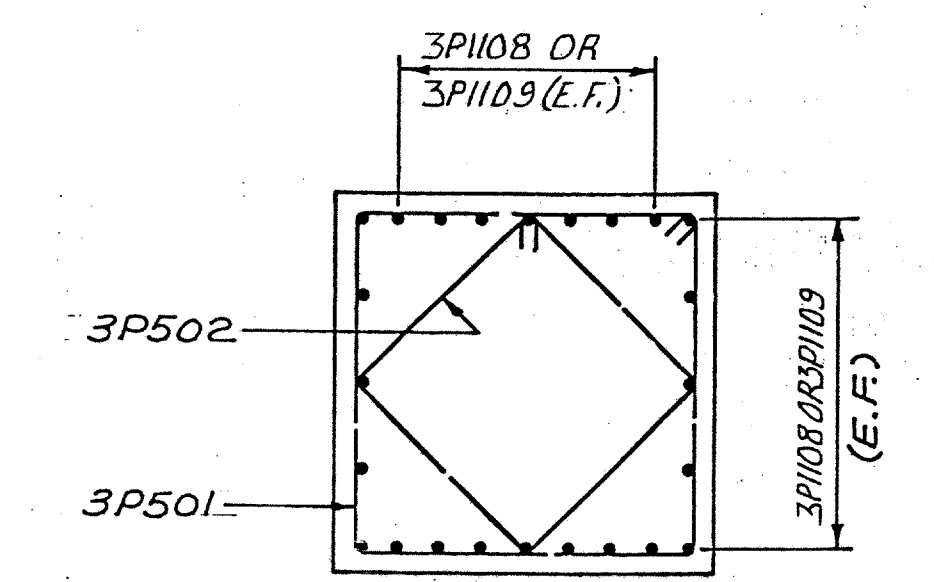
- ① FOR DRILLED SHAFT SPECIFICATIONS, SEE SHEET N^o [12A/120]. FOR DRILLED SHAFT CHART, SEE SHEET N^o [12B/120]
- ② FOR ADDITIONAL NOTES, SEE SHEET [55/120]



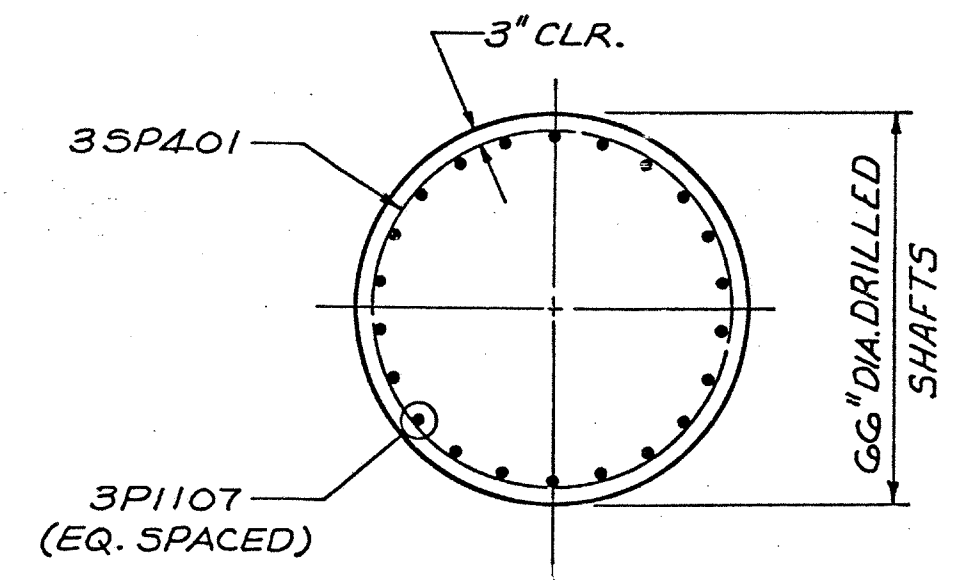
PLAN



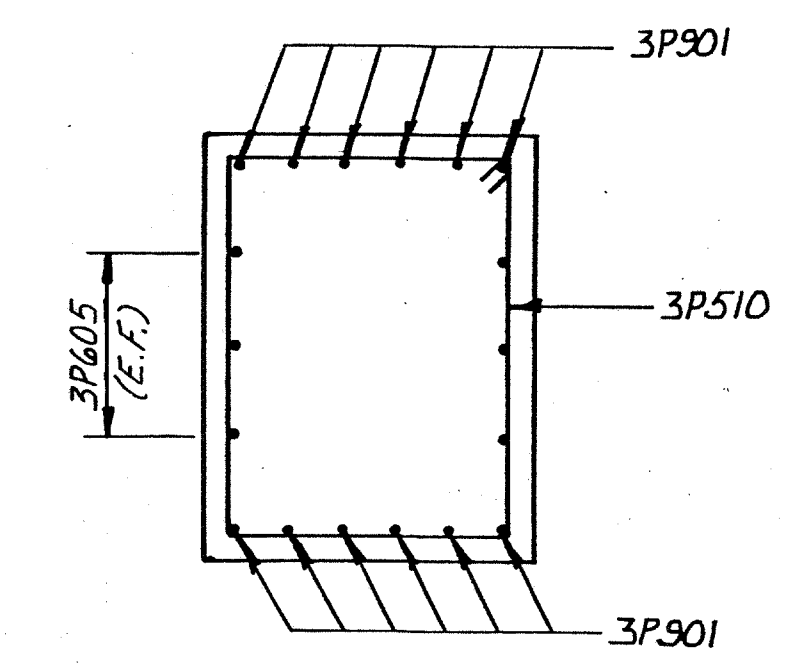
SECTION C-C



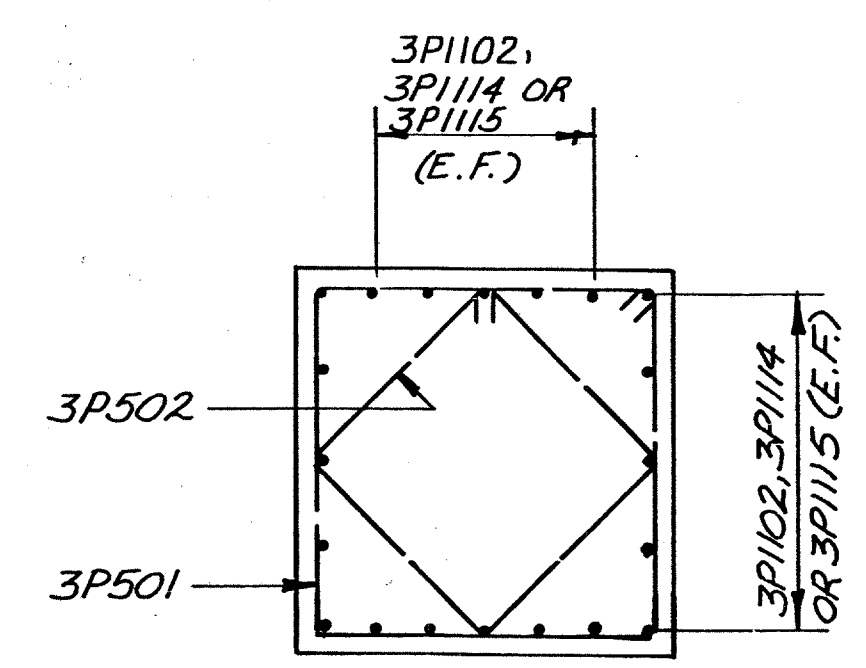
SECTION D-D



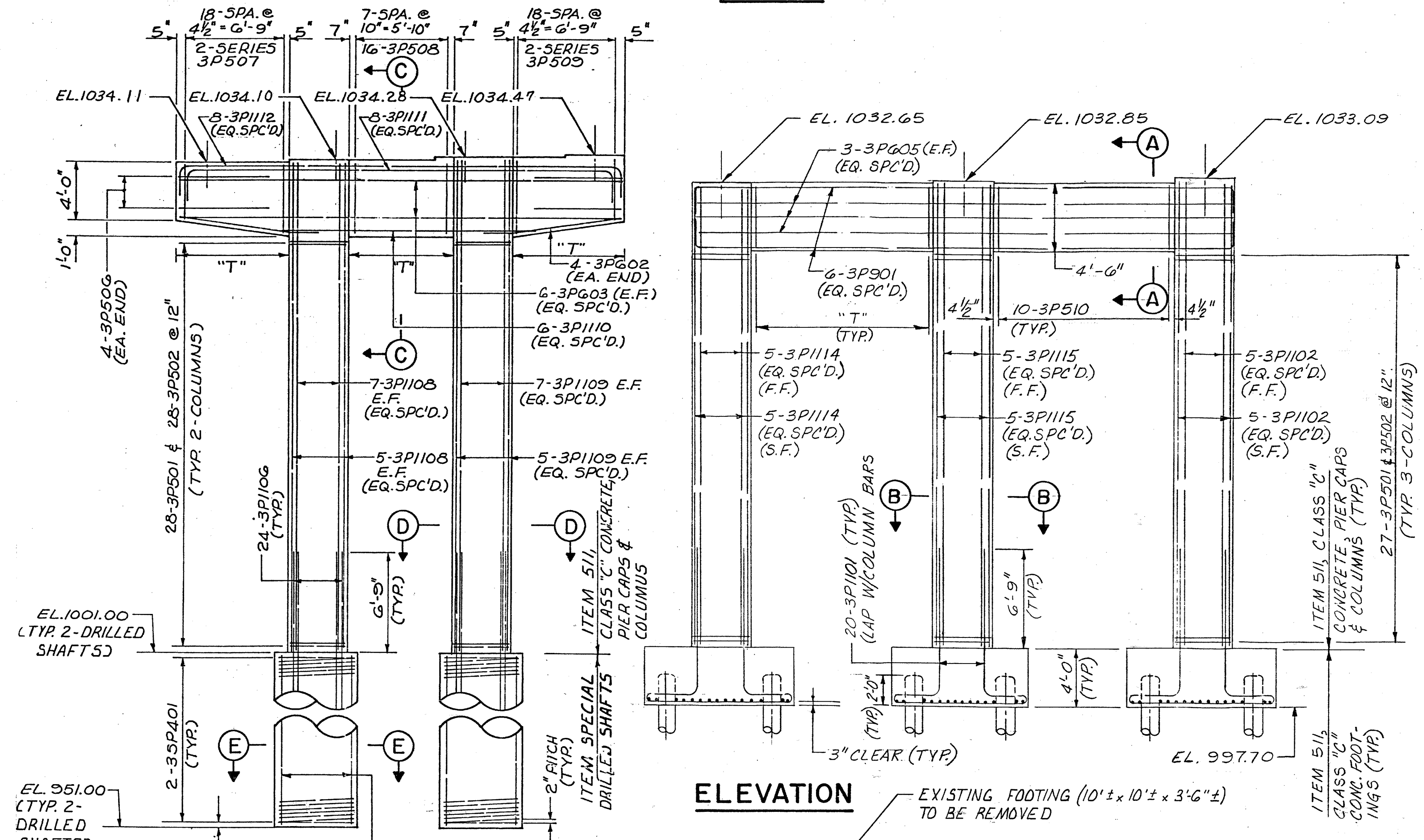
SECTION E-E



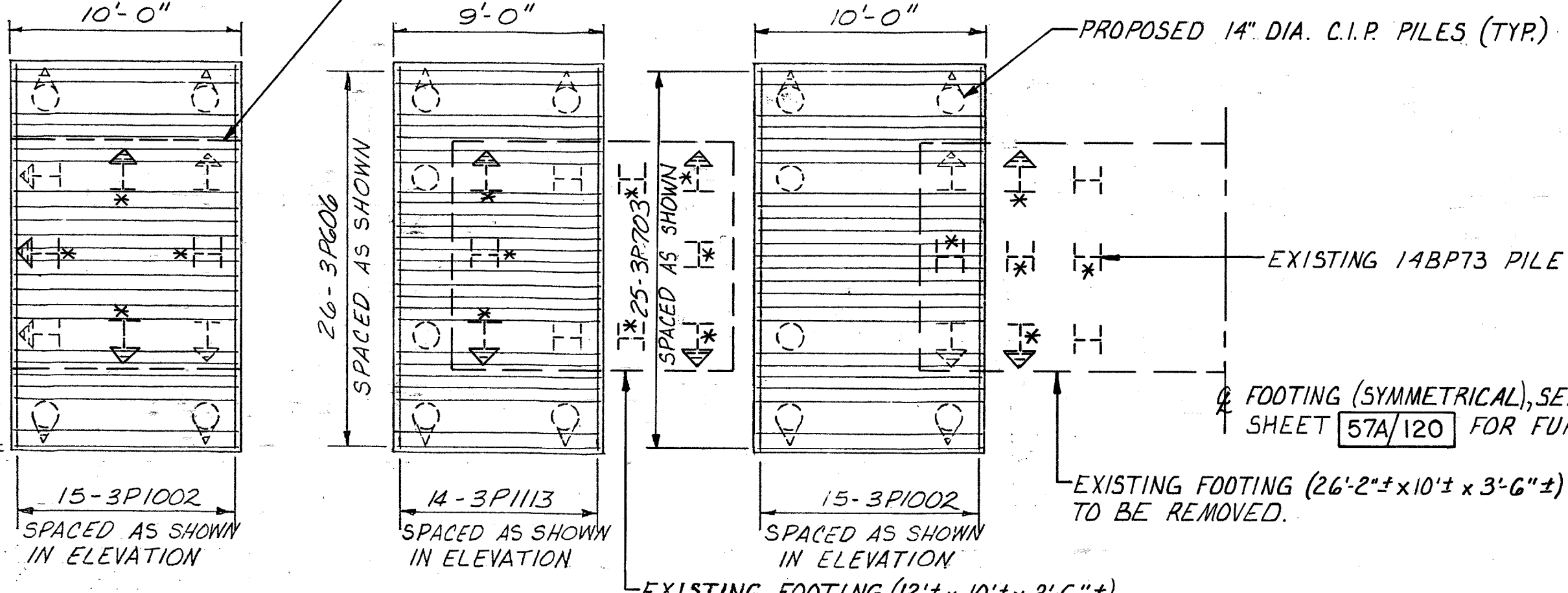
SECTION A-A



SECTION B-B



ELEVATION



FOOTING PLAN

* INDICATES EXISTING 14BP73 PILE TO BE CUT 1'-0" BELOW THE BOTTOM OF THE PROPOSED FOOTING. EXISTING PILES NOT MARKED WITH A * ARE TO BECOME PART OF THE NEW FOOTING. REMOVAL SHALL BE PAID FOR UNDER ITEM 202. PORTIONS OF STRUCTURE REMOVED.

EXISTING 14BP73 PILE (TYP.)
FOOTING (SYMMETRICAL), SEE SHEET [57A/120] FOR FURTHER DETAILS
EXISTING FOOTING (26'-2" x 10' x 3'-6" ±) TO BE REMOVED.

McCOY ASSOCIATES, INC. 57 / 120
CONSULTING ENGINEERS
AKRON, OHIO

PIER N^o 3 NORTH DETAIL

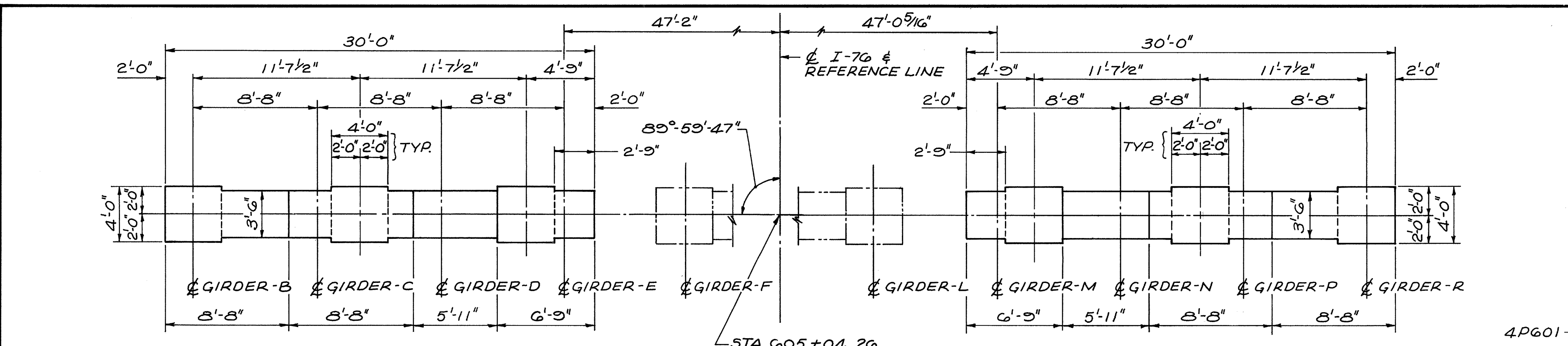
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.P.		J.B.H.	J.B.H.	3-30-89	J.G.C.
T.E.N.	D.A.K.					

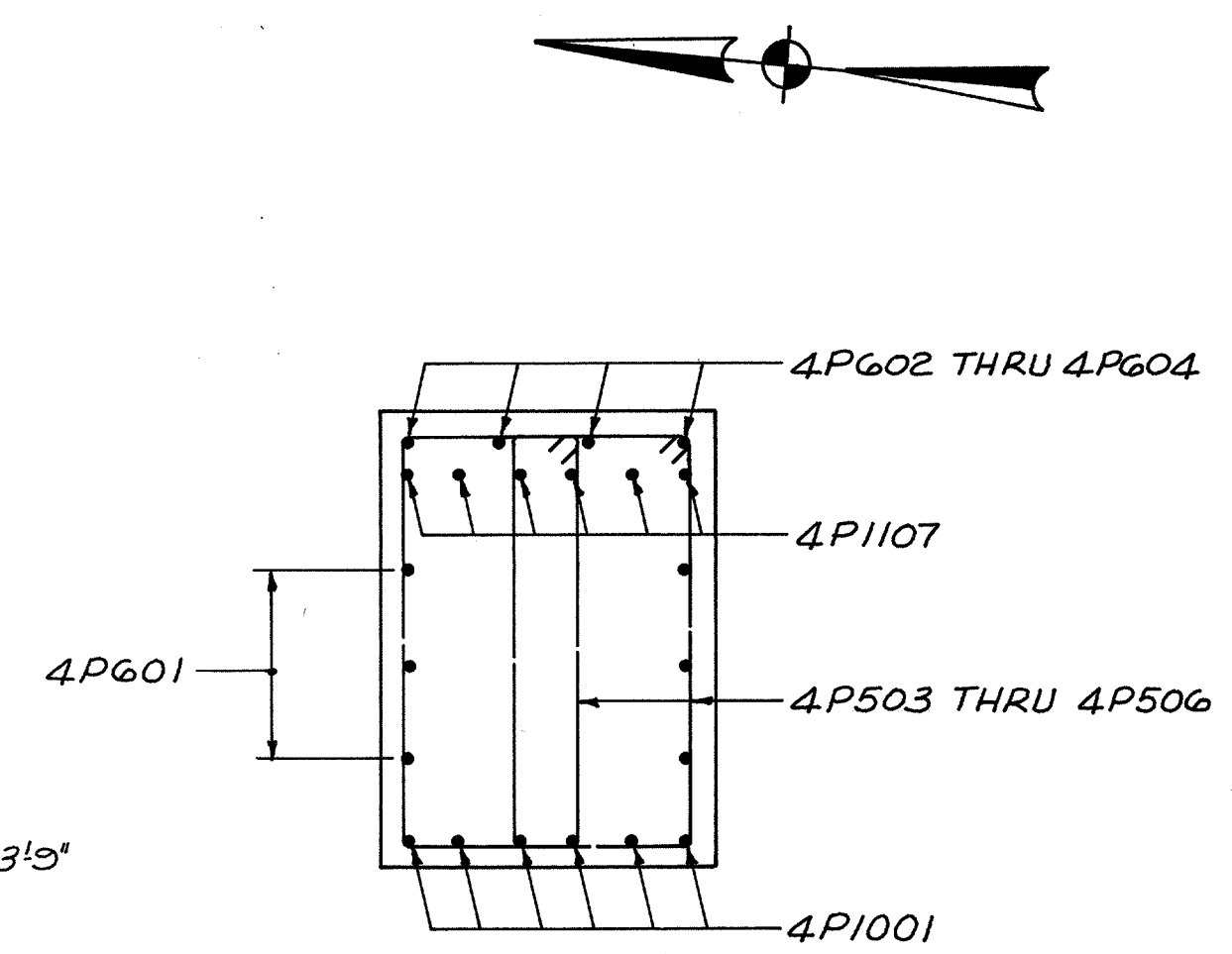
FHWA REGION	STATE	PROJECT	
5	OHIO		

1002
1214

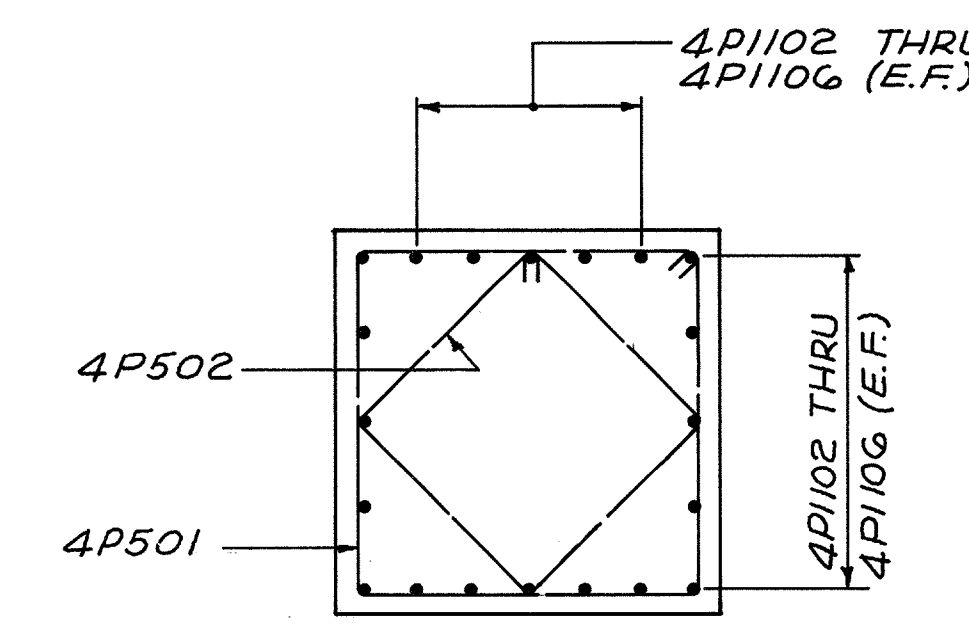
SUMMIT COUNTY
SUM 76-11.57



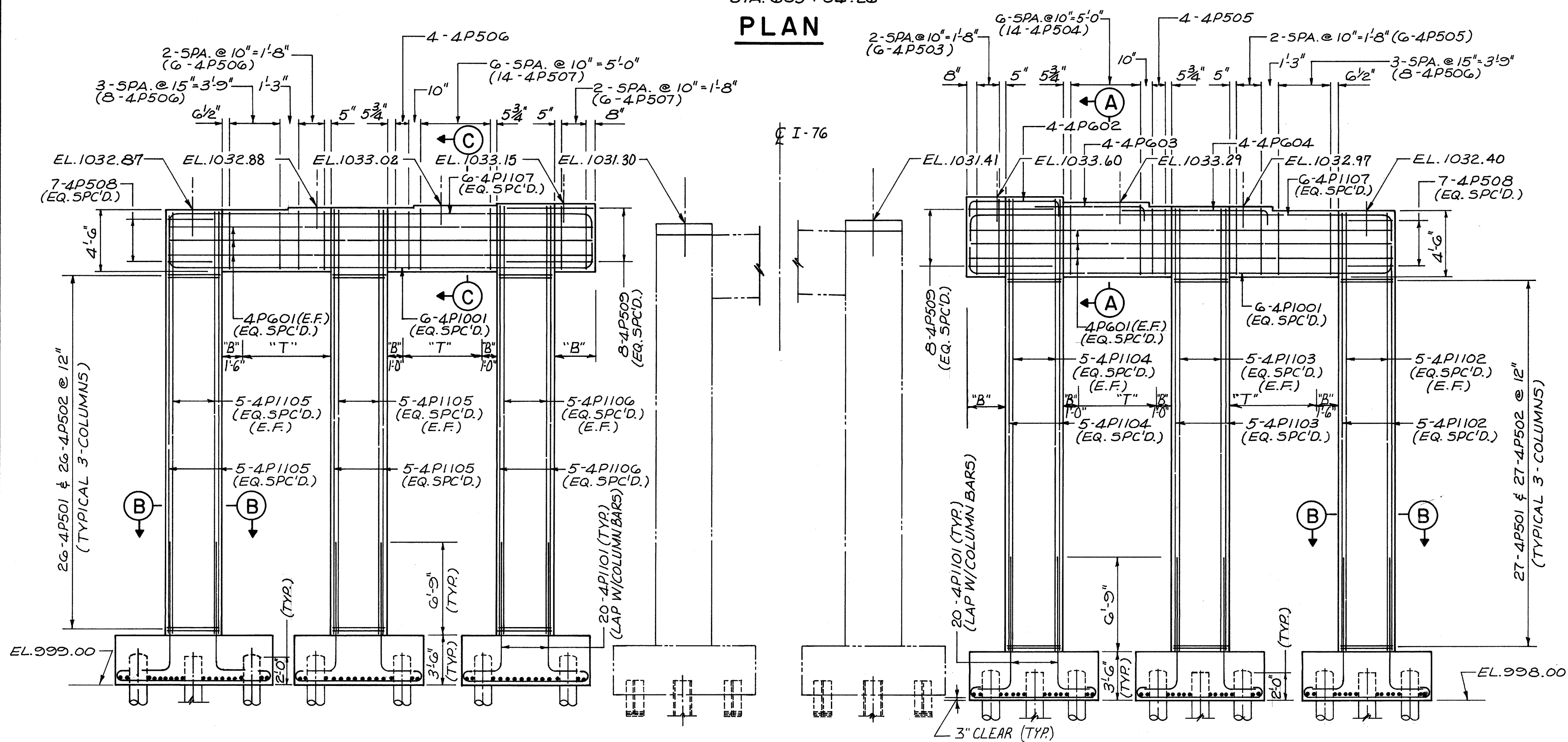
PLAN



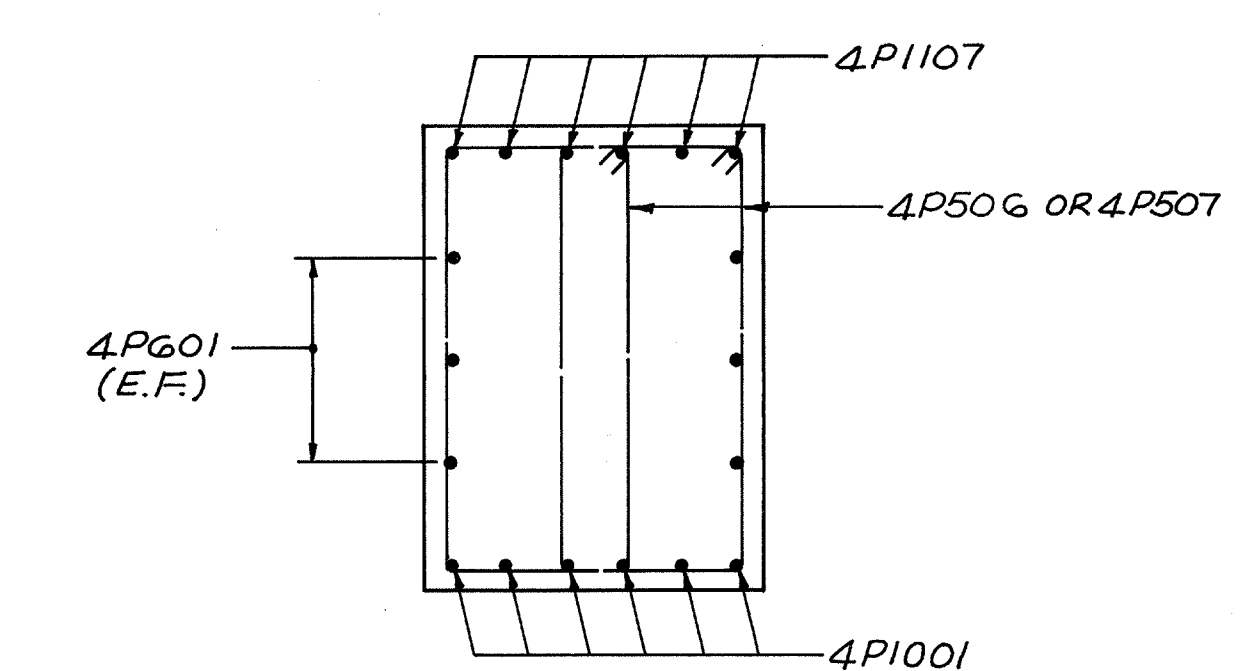
SECTION A-A



SECTION B-B

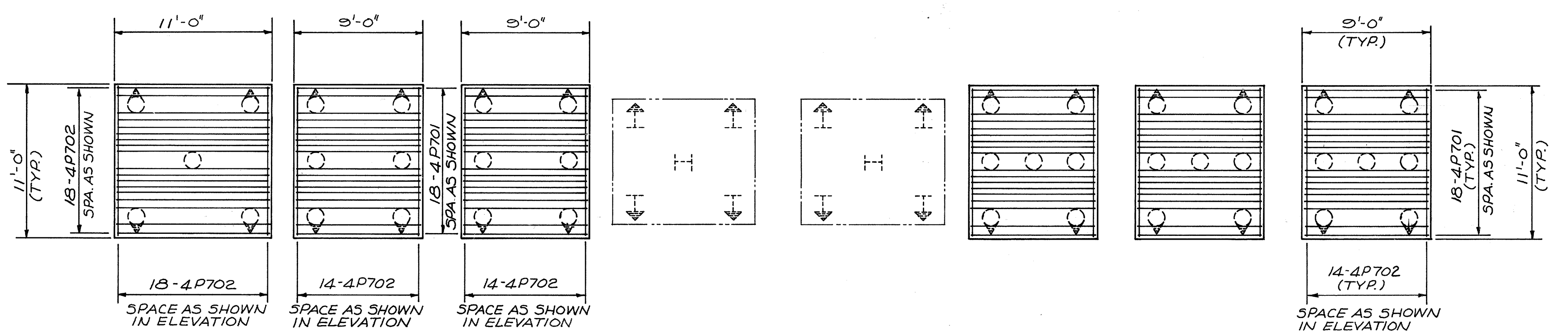


ELEVATION



SECTION C-C

- NOTES:
- ABBREVIATIONS
E.F. = EACH FACE
 - IN PIER CAPS, HOOKS SHALL BE PLACED AT TOP WHERE NOTED "T" AND AT BOTTOM WHERE NOTED "B"
 - BEARING SEAT REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE SETTING OF BEARING ANCHORS
 - BEARING ANCHORS: AT THE OPTION OF THE CONTRACTOR, BEARING ANCHORS (OR FORMED HOLES) LOCATED AND SUPPORTED BY TEMPLATES MAY BE CAST IN PLACE.



FOOTING PLAN

McCOY ASSOCIATES INC. 58/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER No. 4 DETAILS

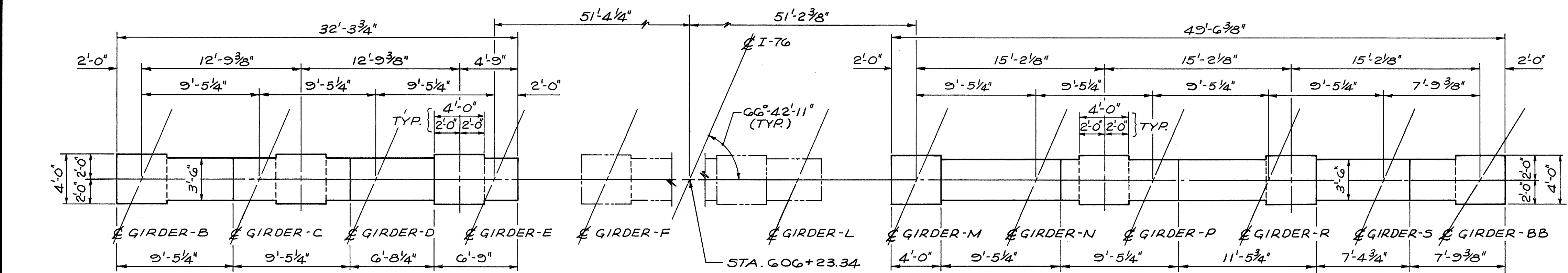
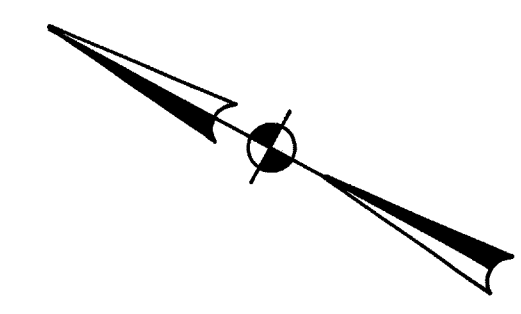
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.R.		J.B.H.	J.B.H.	3-30-89	
T.E.N.						

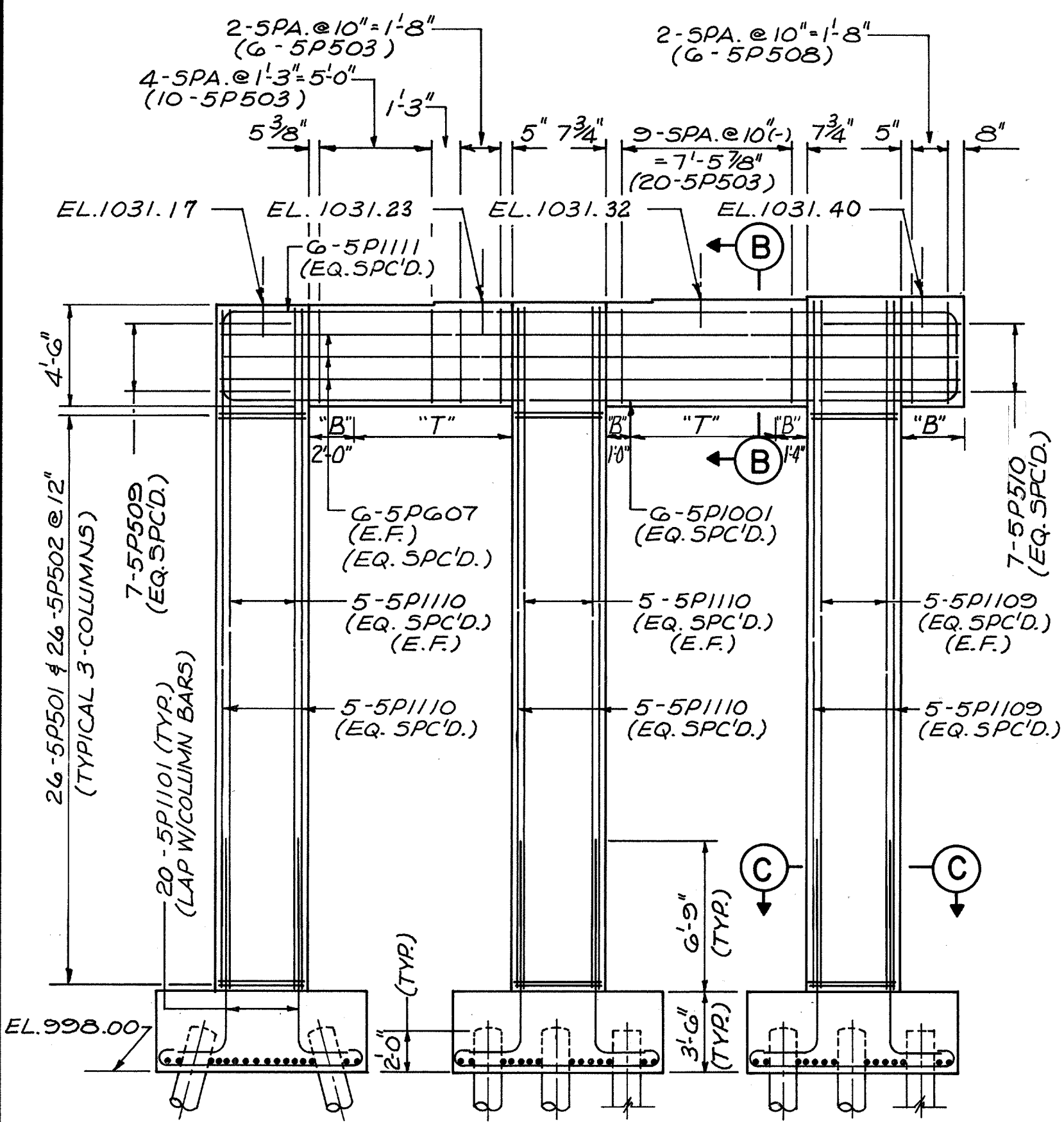
FHWA REGION	STATE	PROJECT
5	OHIO	

1003
1214

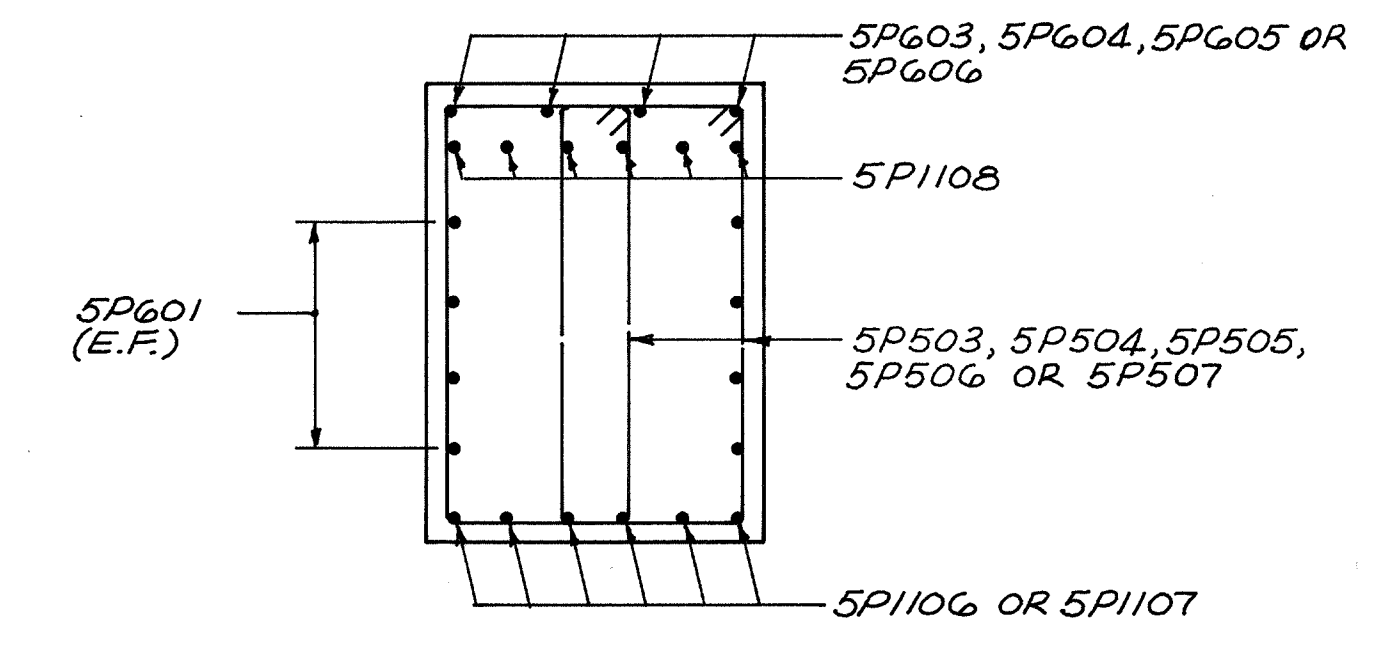
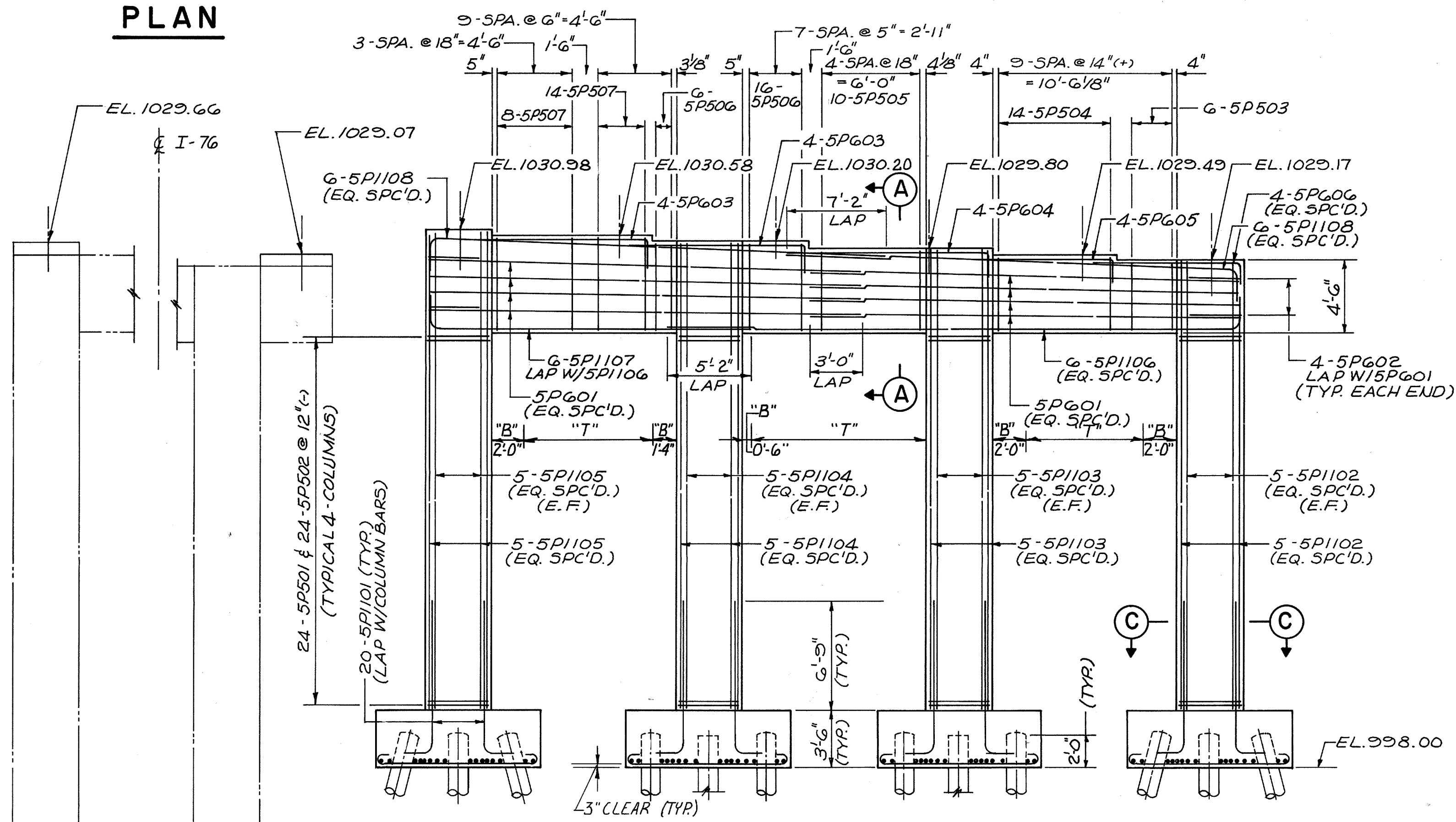
SUMMIT COUNTY
SUM 76-11.57



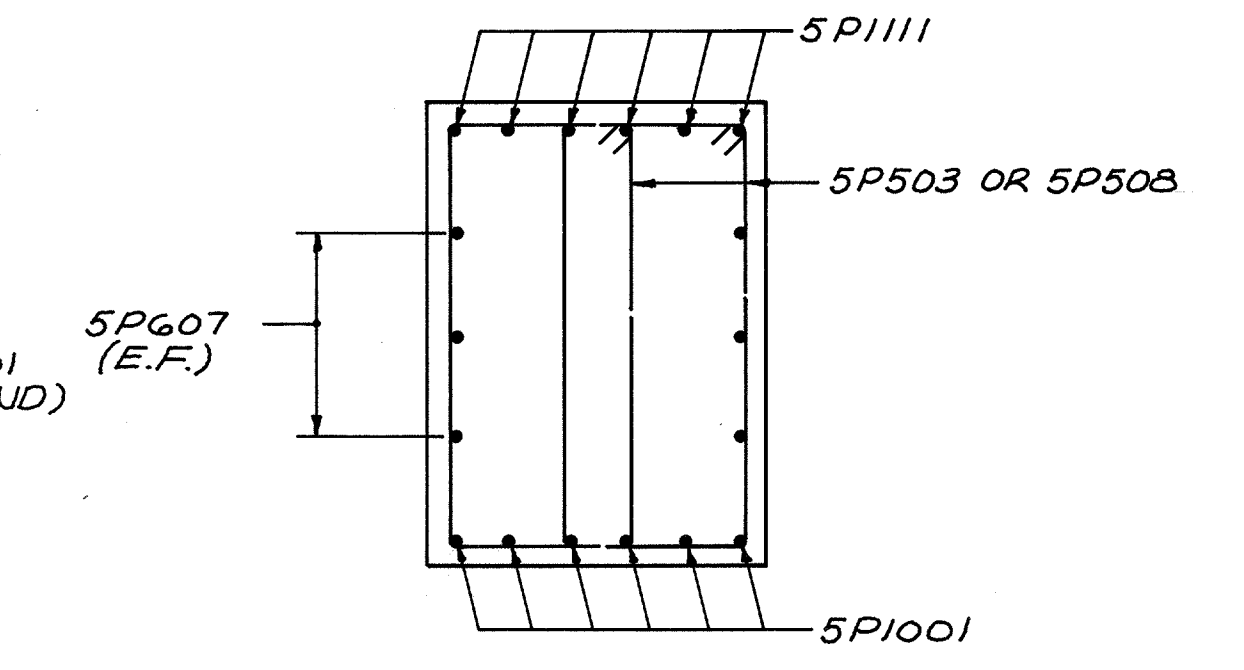
PLAN



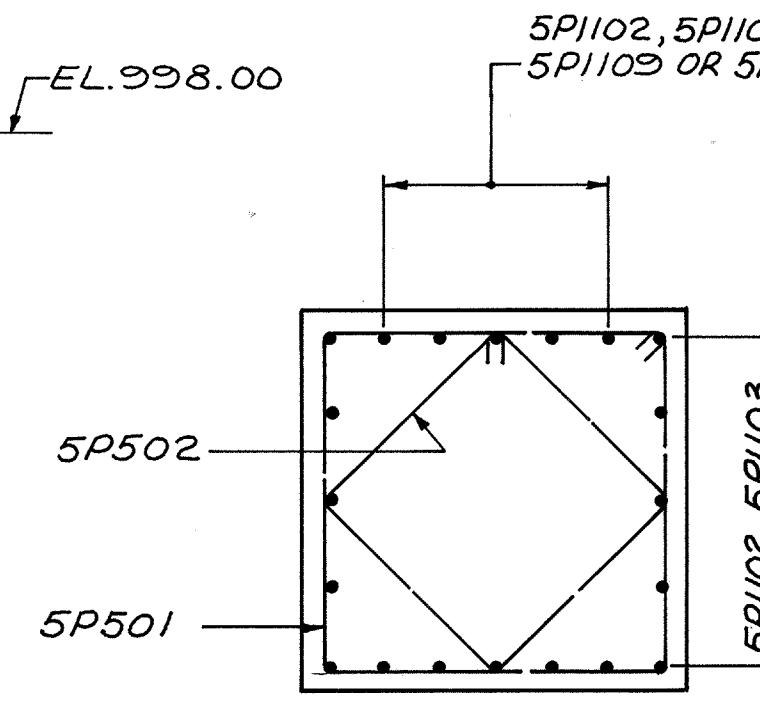
ELEVATION



SECTION A-A

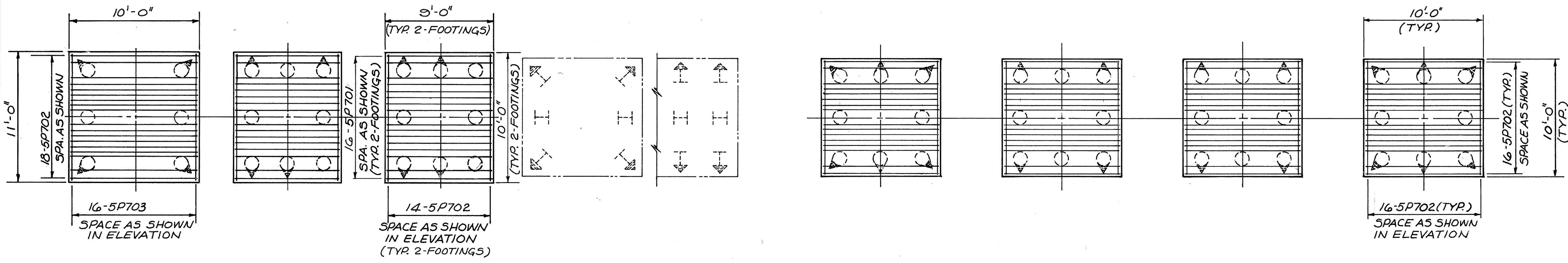


SECTION B-B



SECTION C-C

- NOTES:
- ABBREVIATIONS
E.F. - EACH FACE
 - IN PIER CAPS, HOOKS SHALL BE PLACED AT TOP WHERE NOTED "T" AND AT BOTTOM WHERE NOTED "B"
 - BEARING SEAT REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE SETTING OF BEARING ANCHORS
 - BEARING ANCHORS: AT THE OPTION OF THE CONTRACTOR, BEARING ANCHORS (OR FORMED HOLES) LOCATED AND SUPPORTED BY TEMPLATES MAY BE CAST IN PLACE.



FOOTING PLAN

McCOY ASSOCIATES INC. 59/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER No. 5 DETAILS

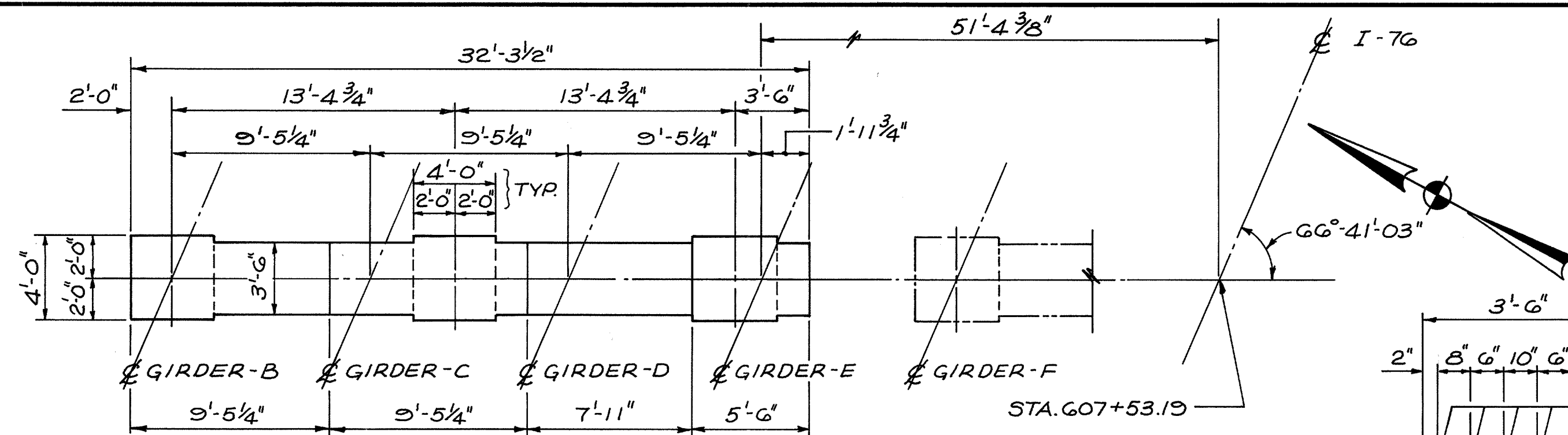
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.R.		J.B.H.	J.B.H.	3-30-89	
T.E.N.						

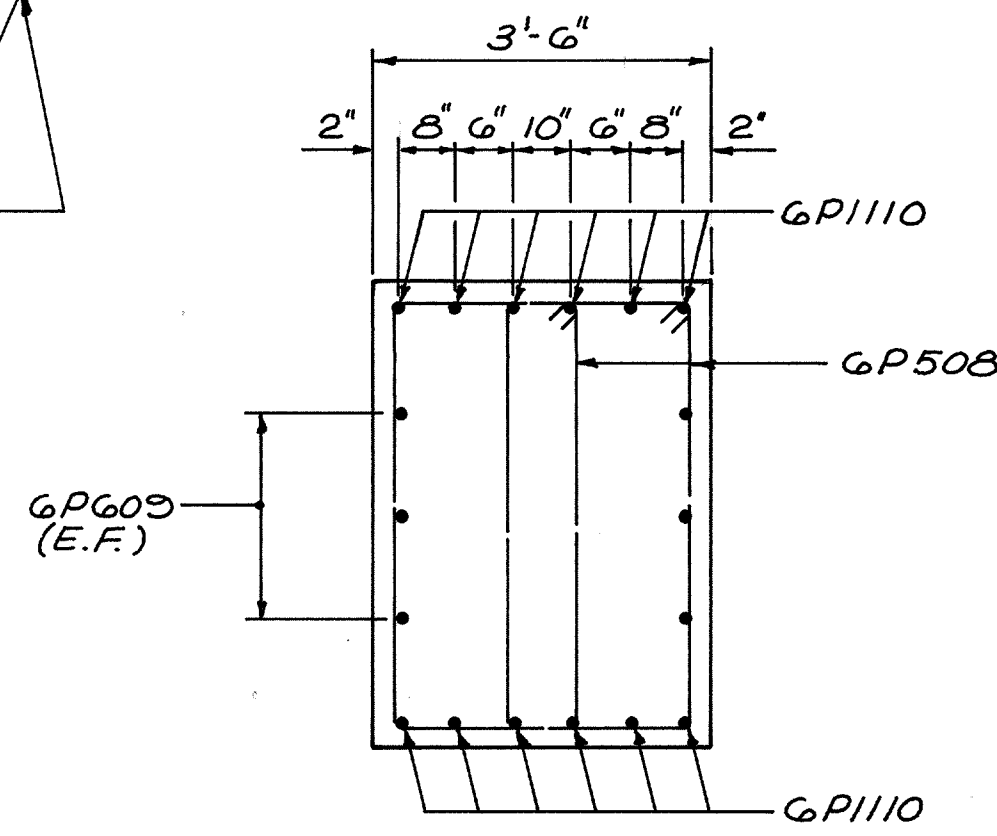
FHWA REGION	STATE	PROJECT
5	OHIO	



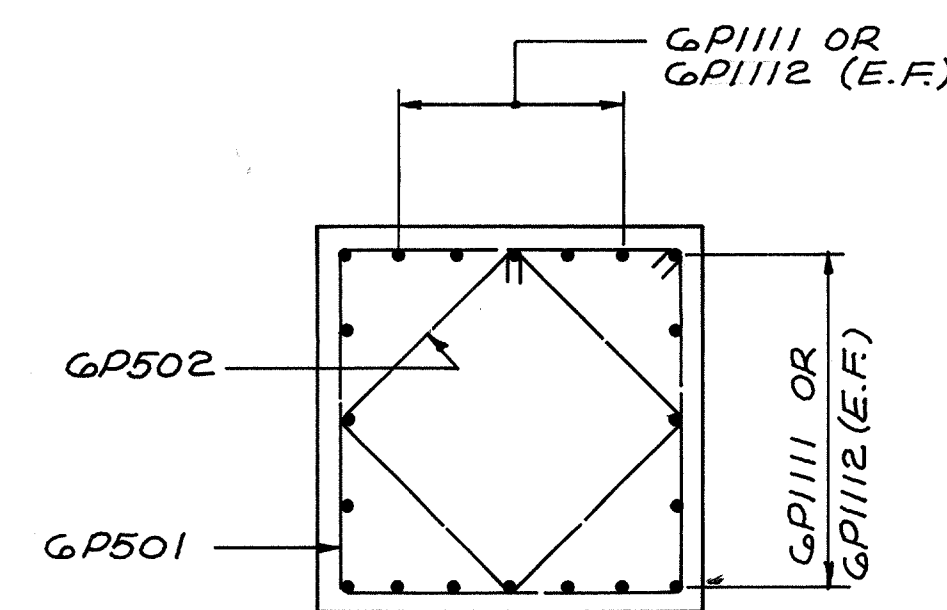
SUMMIT COUNTY
SUM 76-11.57



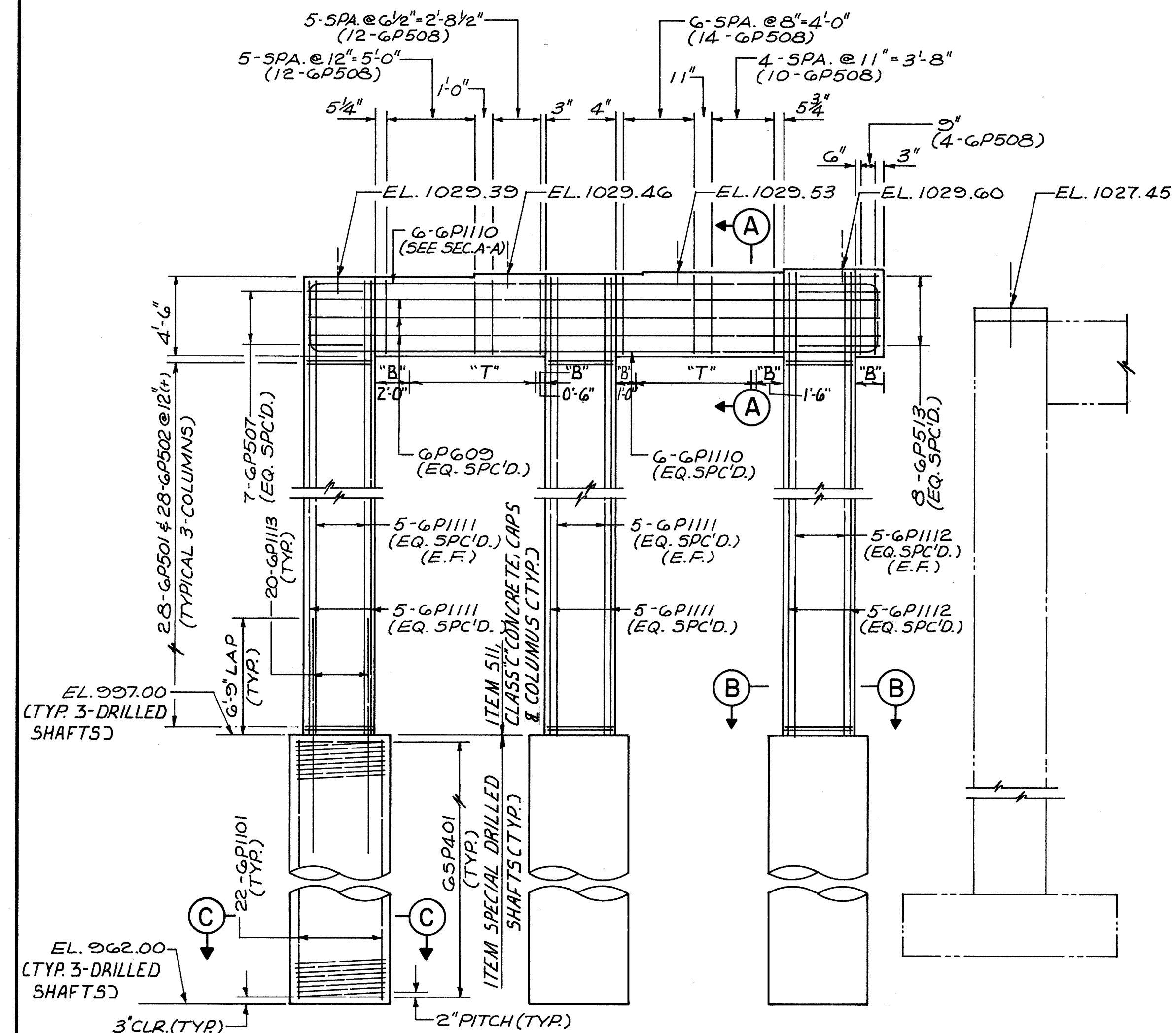
PLAN



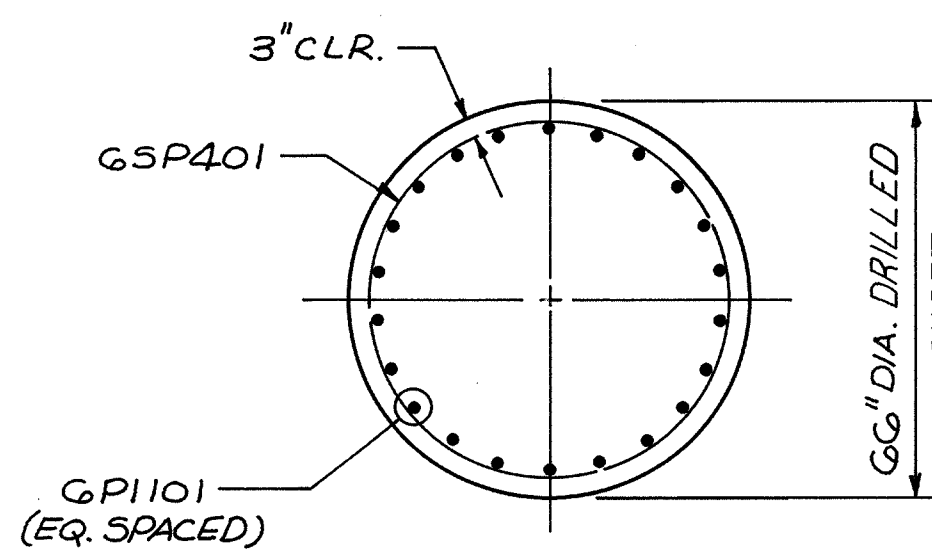
SECTION A-A



SECTION B-B



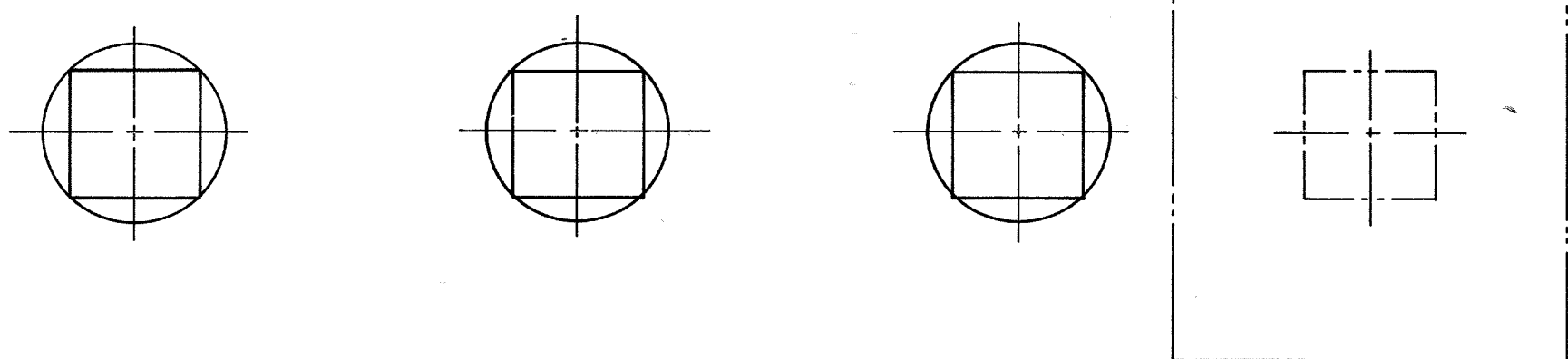
ELEVATION



SECTION C-C

NOTES:

- ① FOR DRILLED SHAFT SPECIFICATIONS, SEE SHEET N^o 12A/120 FOR DRILLED SHAFT CHART, SEE SHEET N^o 12B/120
- ② FOR ADDITIONAL NOTES, SEE SHEET N^o 55/120



FOOTING PLAN

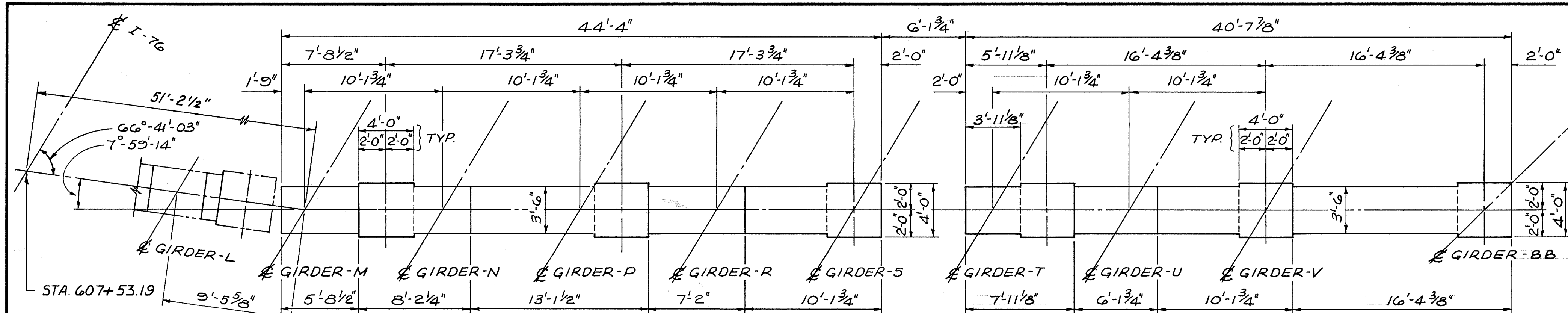
McCOY ASSOCIATES INC. 60/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER N^o 6 DETAILS (NORTH)

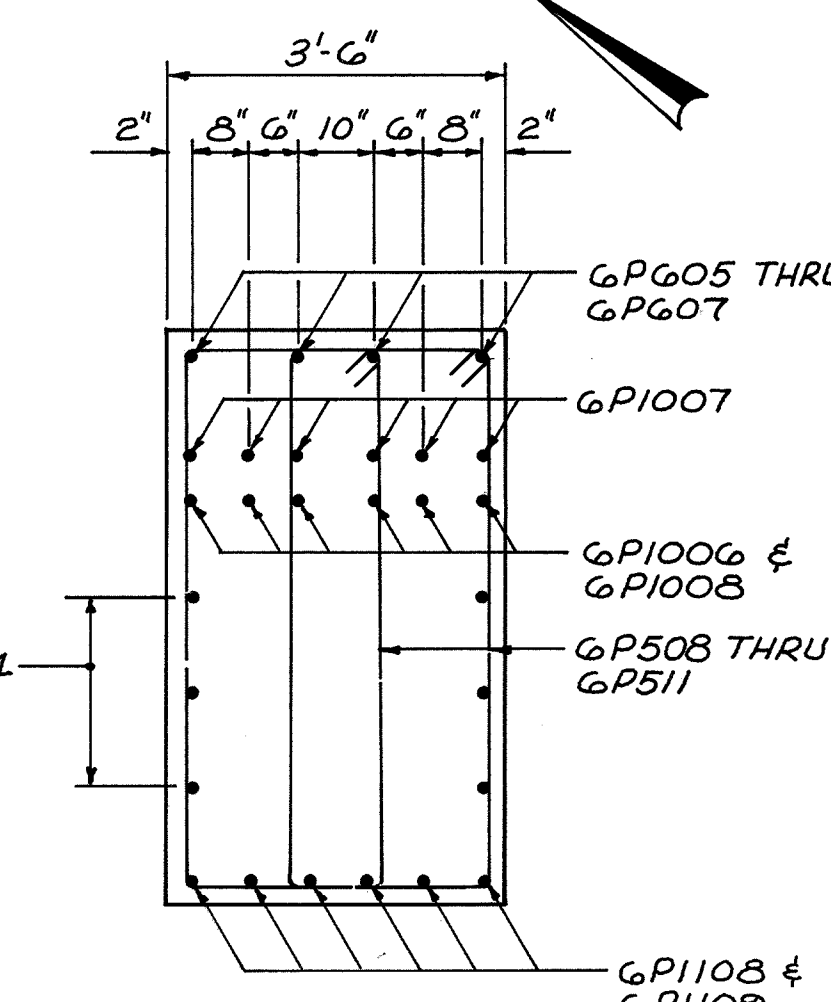
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S. T.E.N.	J.D.P.		J.B.H.	J.B.H.	3-30-89	

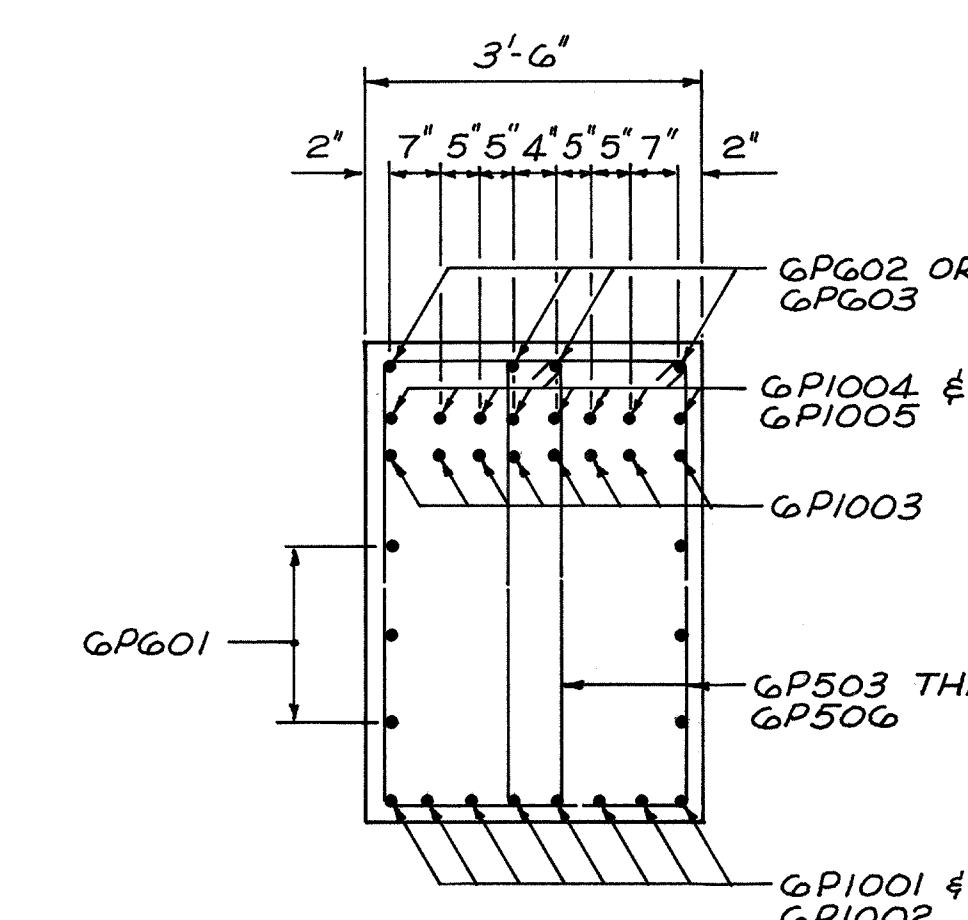
**SUMMIT COUNTY
SUM 76-11.57**



PLAN



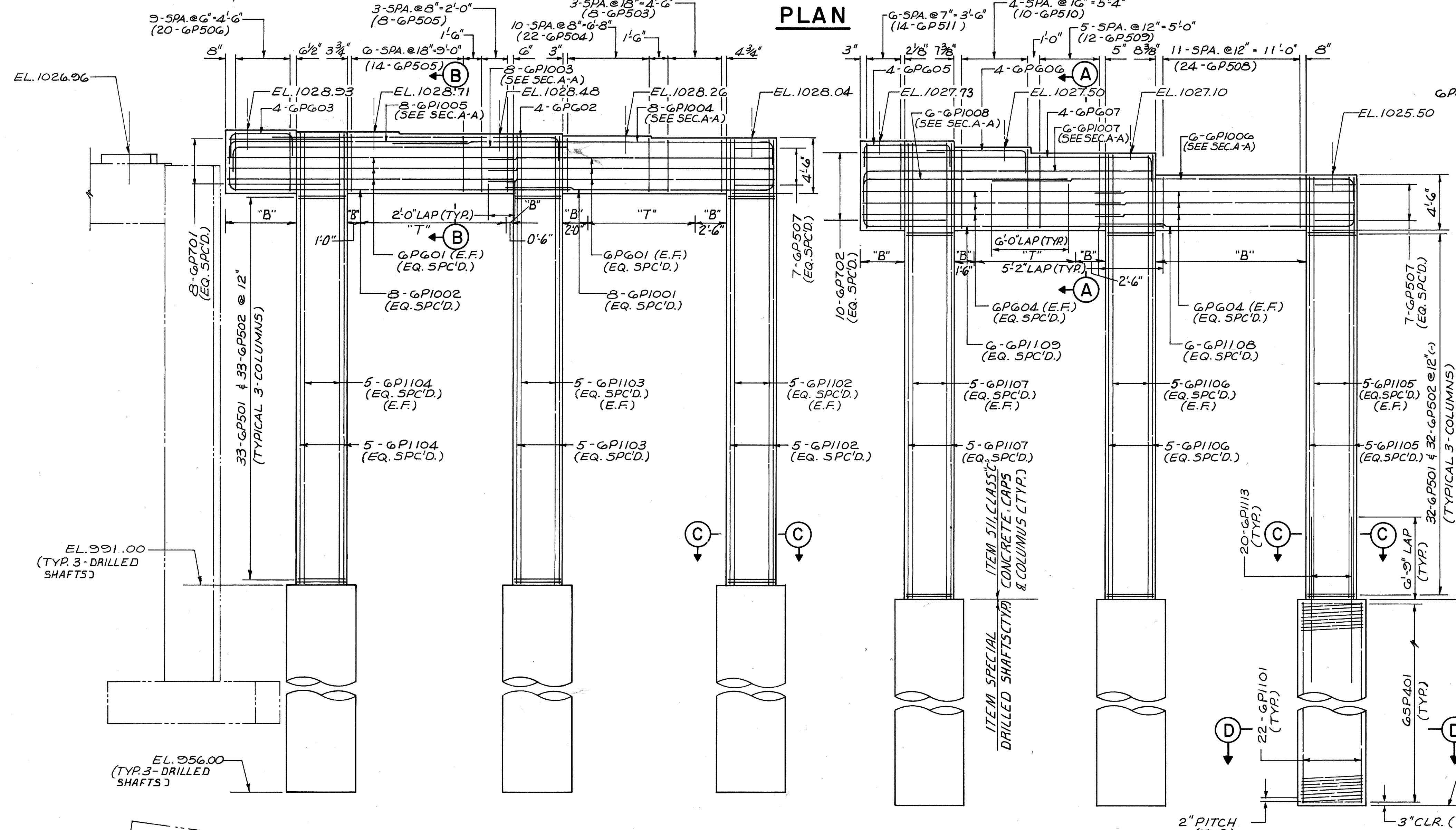
SECTION A-A



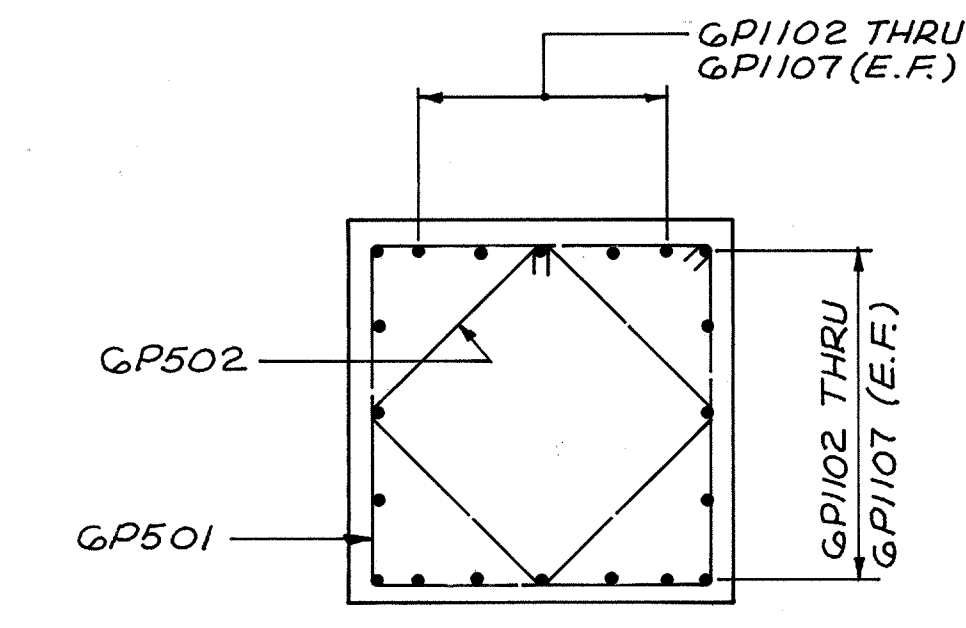
SECTION B-B

NOTES:

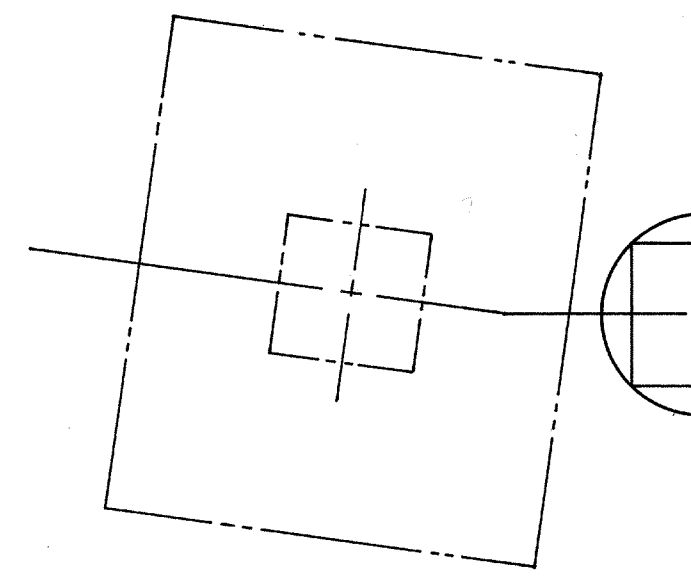
- ① FOR DRILLED SHAFT SPECIFICATIONS, SEE SHEET N^o 12A/120 FOR DRILLED SHAFT CHART, SEE SHEET N^o 12B/120
- ② FOR ADDITIONAL NOTES, SEE SHEET N^o 55/120



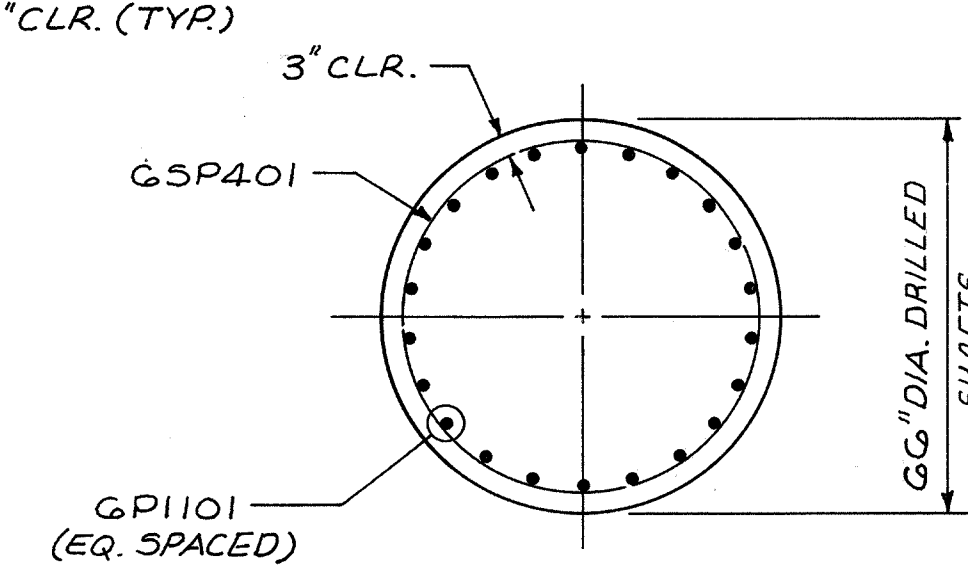
ELEVATION



SECTION C-C



FOOTING PLAN



SECTION D-D

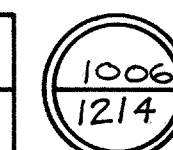
McCOY ASSOCIATES INC. 61/120
CONSULTING ENGINEERS
AKRON, OHIO

PIER N^o 6 DETAILS (SOUTH)

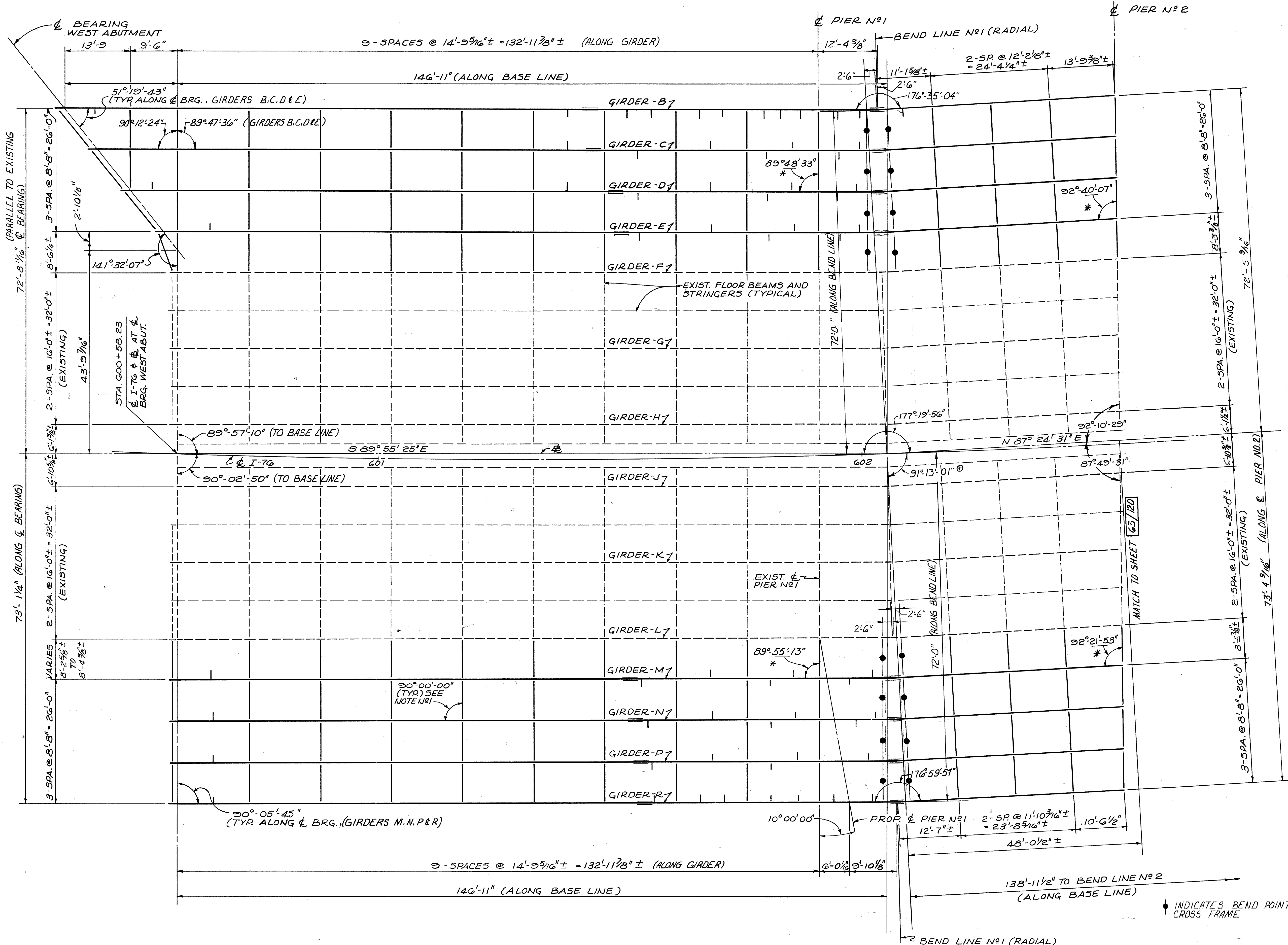
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.G.S.	J.D.P.		J.B.H.	J.B.H.	3-30-87	
T.E.N.						

FHWA REGION	STATE	PROJECT	
5	OHIO		



SUMMIT COUNTY
SUM 76-11.57



NOTES

1. ALL PROPOSED INTERMEDIATE CROSSFRAMES SHALL BE INSTALLED AT A 90°-00'-00" ANGLE WITH RESPECT TO THE PROPOSED GIRDERS UNLESS OTHERWISE SHOWN.
2. * INDICATES TYPICAL ALONG & PIER FROM & TO OUTSIDE GIRDER.
3. ⊥ INDICATES INTERMEDIATE STIFFENER. INTERMEDIATE STIFFENERS SHALL BE SINGLE PLATES PLACED AS SHOWN ON THE FRAMING PLAN, EQUALLY SPACED BETWEEN CROSSFRAMES, OR CROSSFRAMES AND BEARING STIFFENERS AT PIER, OR CROSSFRAME AND BEARING STIFFENER AT ABUTMENT.
4. FOR GIRDER DETAILS, SEE SHEETS 70/120 THRU 75/120
5. FOR FRAMING DETAILS, SEE SHEETS 68/120 THRU 69/120
6. FOR SPLICE DETAILS, SEE SHEETS 77/120 THRU 78/120
7. FOR BEARING DETAILS, SEE SHEET 76/120
8. FOR EXPANSION JOINT DETAILS, SEE SHEETS 79/120 THRU 82A/120
9. FOR DEFLECTION AND CAMBER DETAILS, SEE SHEETS 86/120 THRU 90/120
10. ⊕ INDICATES BASE LINE TO BEND LINE
11. CROSS-FRAMES BETWEEN PROPOSED GIRDERS AND EXISTING GIRDERS SHALL BE INCLUDED IN ITEM 513, STRUCTURAL STEEL FOR REHABILITATION, AS PER PLAN.

McCOY ASSOCIATES INC. 62/120
CONSULTING ENGINEERS
AKRON, OHIO

FRAMING PLAN

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

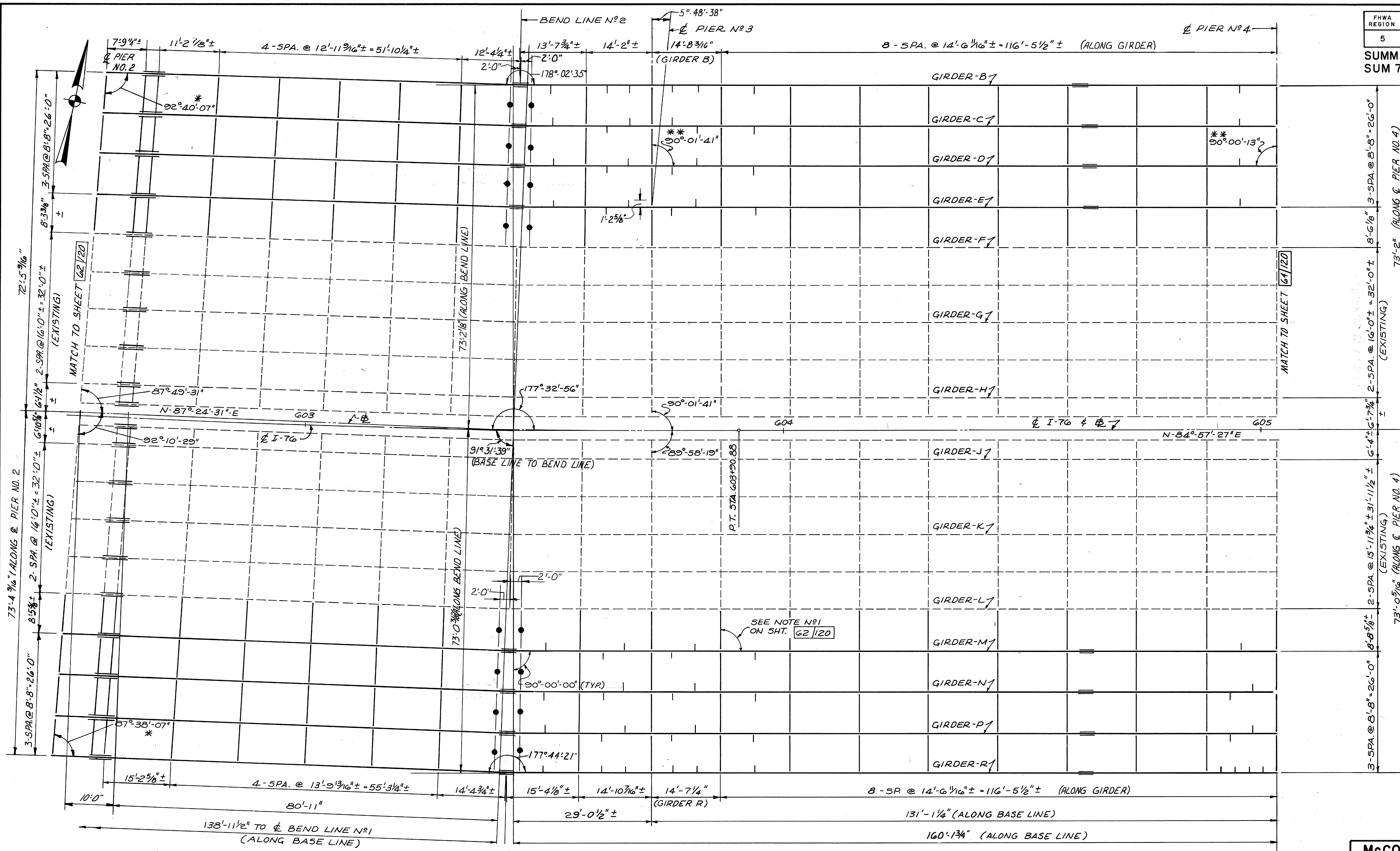
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		RGS	JBH	3-31-89	

FRAMING PLAN
WEST ABUTMENT TO & PIER NO. 2

FHWA REGION	STATE	PROJECT
5	OHIO	

1007
1214

SUMMIT COUNTY
SUM 76-11.57



- NOTES**
- *-INDICATES TYPICAL ALONG ϕ EXPANSION ROLLER FROM ϕ TO OUTSIDE GIRDER.
 - **-INDICATES TYPICAL ALONG ϕ PIER (OUTSIDE GIRDER TO OUTSIDE GIRDER).
 - FOR ADDITIONAL NOTES SEE SHEET 62/120.
 - INDICATES BEND POINT CROSS FRAME

FRAMING PLAN
 ϕ PIER NO. 2 & PIER NO. 4

McCOY ASSOCIATES INC. 63/120
 CONSULTING ENGINEERS
 AKRON, OHIO

FRAMING PLAN

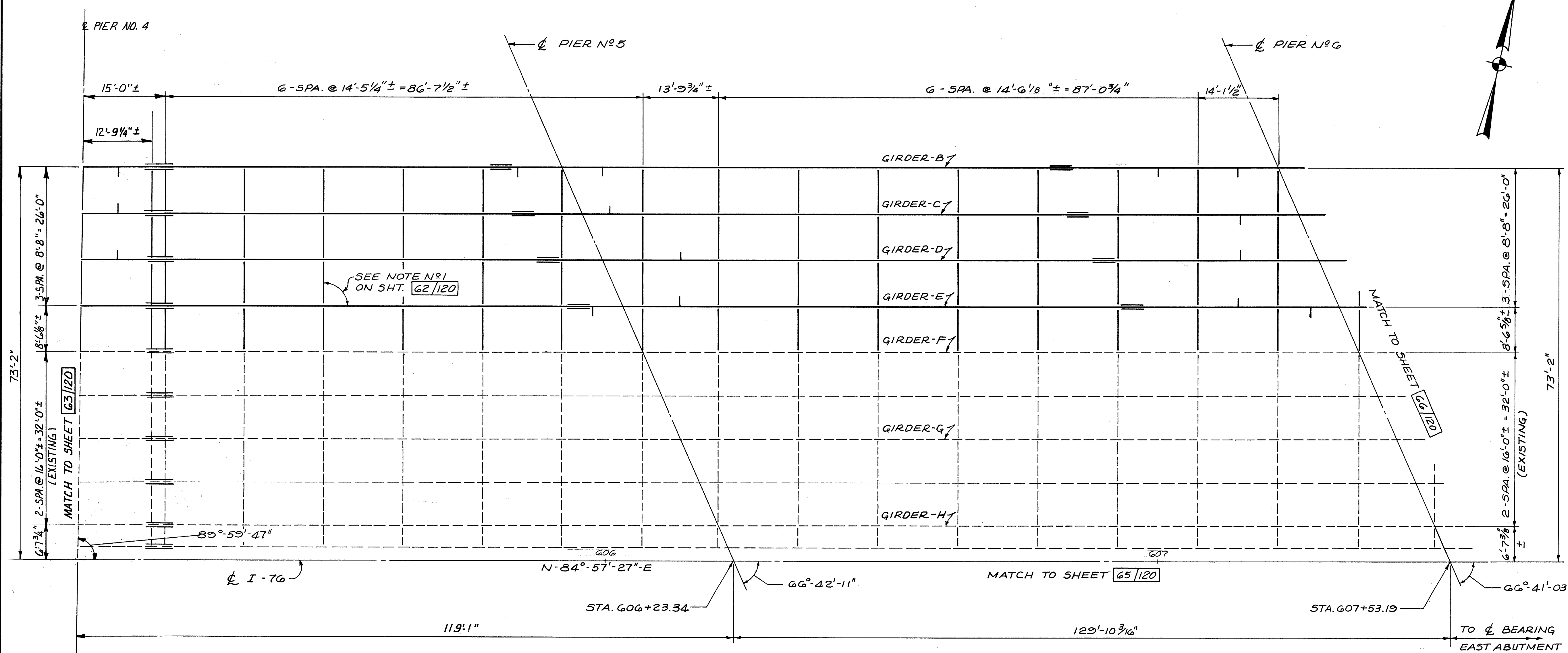
BRIDGE NO. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		RGS	J.B.H.	2-21-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

1008
1214

SUMMIT COUNTY
SUM 76-11.57



NOTES

- 1. FOR ADDITIONAL NOTES SEE SHEET 62/120.

FRAMING PLAN

2 PIER NO. 4 TO 2 PIER NO. 6
(NORTH SIDE)

McCOY ASSOCIATES INC. 64/120
CONSULTING ENGINEERS
AKRON, OHIO

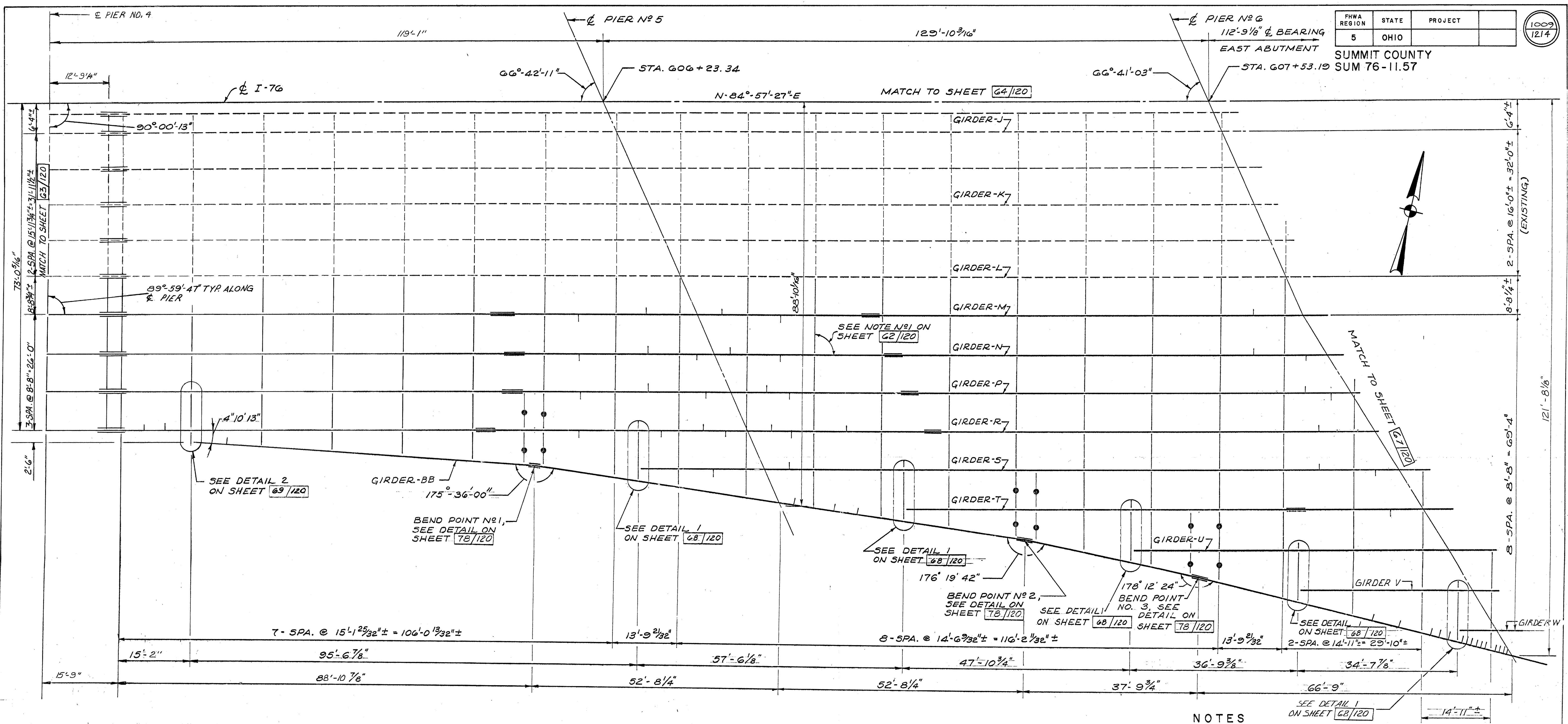
FRAMING PLAN
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		RGS	JBH	3-31-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

1009
1214

SUMMIT COUNTY
SUM 76-11.57



FRAMING PLAN

FROM E PIER NO. 4 TO E PIER NO. 6
(SOUTH BRIDGE)

NOTES

1. FOR ADDITIONAL NOTES SEE SHEET 62/120.
2. • INDICATES BEND POINT CROSSFRAME.
3. SEE STRUCTURAL NOTES FOR SHOP ASSEMBLY REQUIREMENTS FOR GIRDERS R THRU B-B SHEET 5C/120.

McCoy Associates Inc. 65/120
CONSULTING ENGINEERS
AKRON, OHIO

FRAMING PLAN

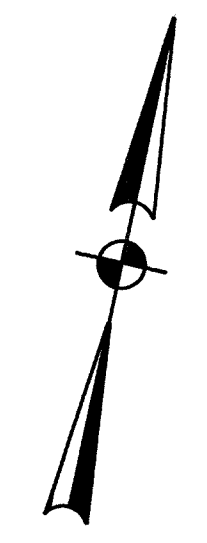
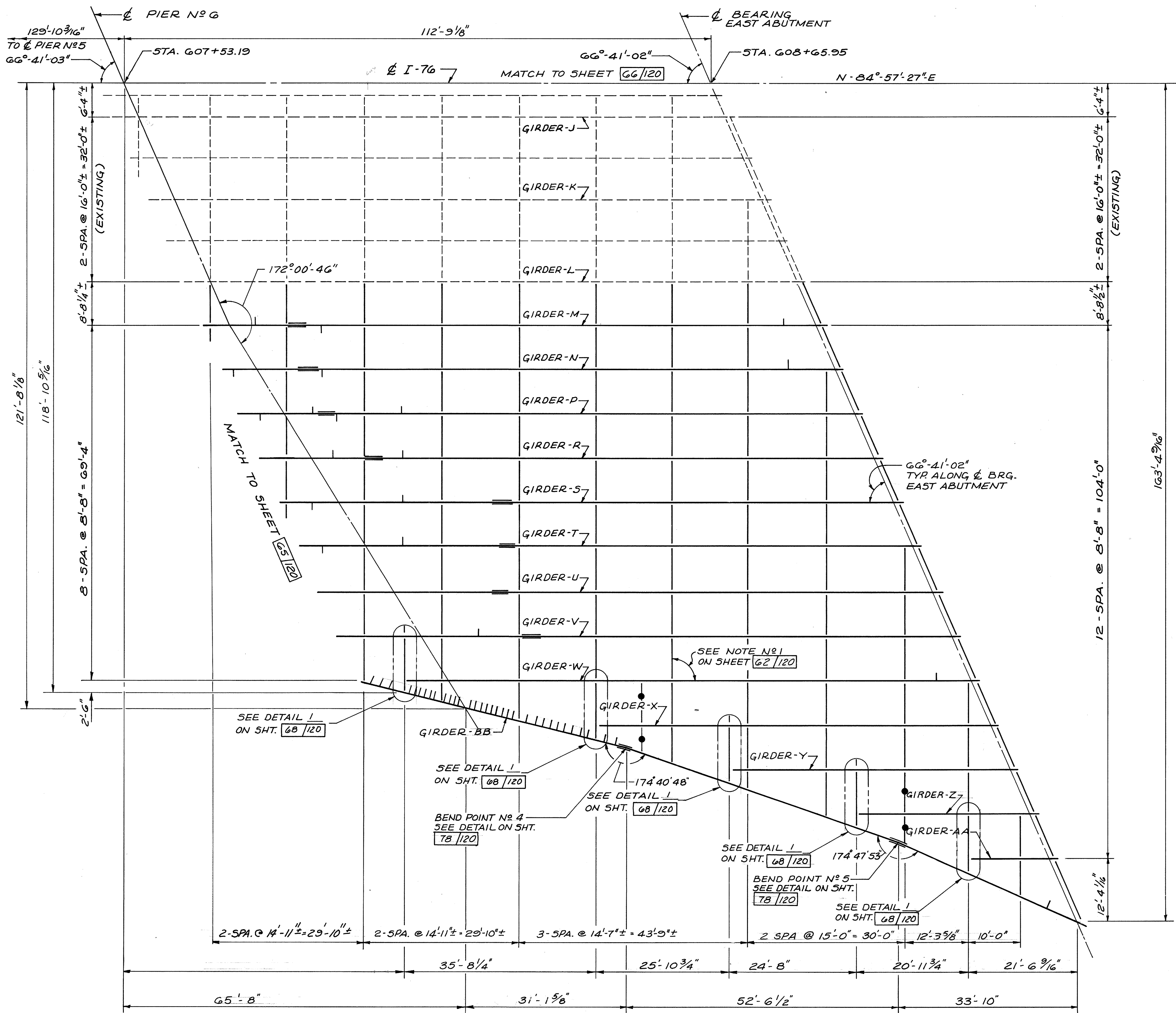
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		R.G.S.	J.B.H.	3-31-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

1011
1214

SUMMIT COUNTY
SUM 76-11.57



NOTES

- ① FOR ADDITIONAL NOTES SEE SHEET 62/120.
- ② INDICATES BEND POINT CROSSFRAME.
- ③ SEE STRUCTURAL NOTES, SHEET 5C/120 FOR SHOP ASSEMBLY REQUIREMENTS FOR GIRDERS R THRU B-B

FRAMING PLAN

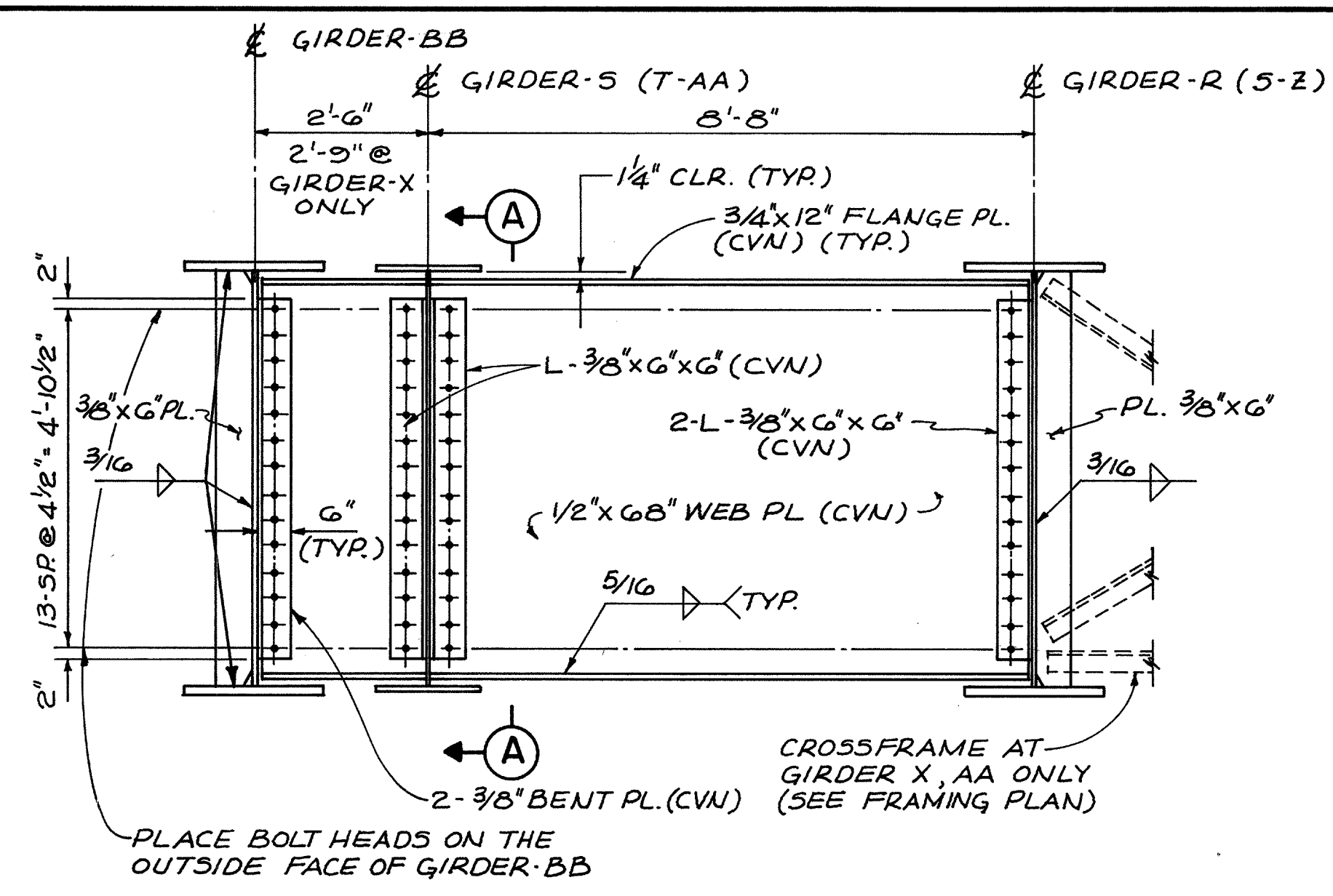
CL PIER N°6 TO CL BEARING EAST ABUTMENT
(SOUTH BRIDGE)

McCOY ASSOCIATES INC. 67/120
CONSULTING ENGINEERS
AKRON, OHIO

FRAMING PLAN

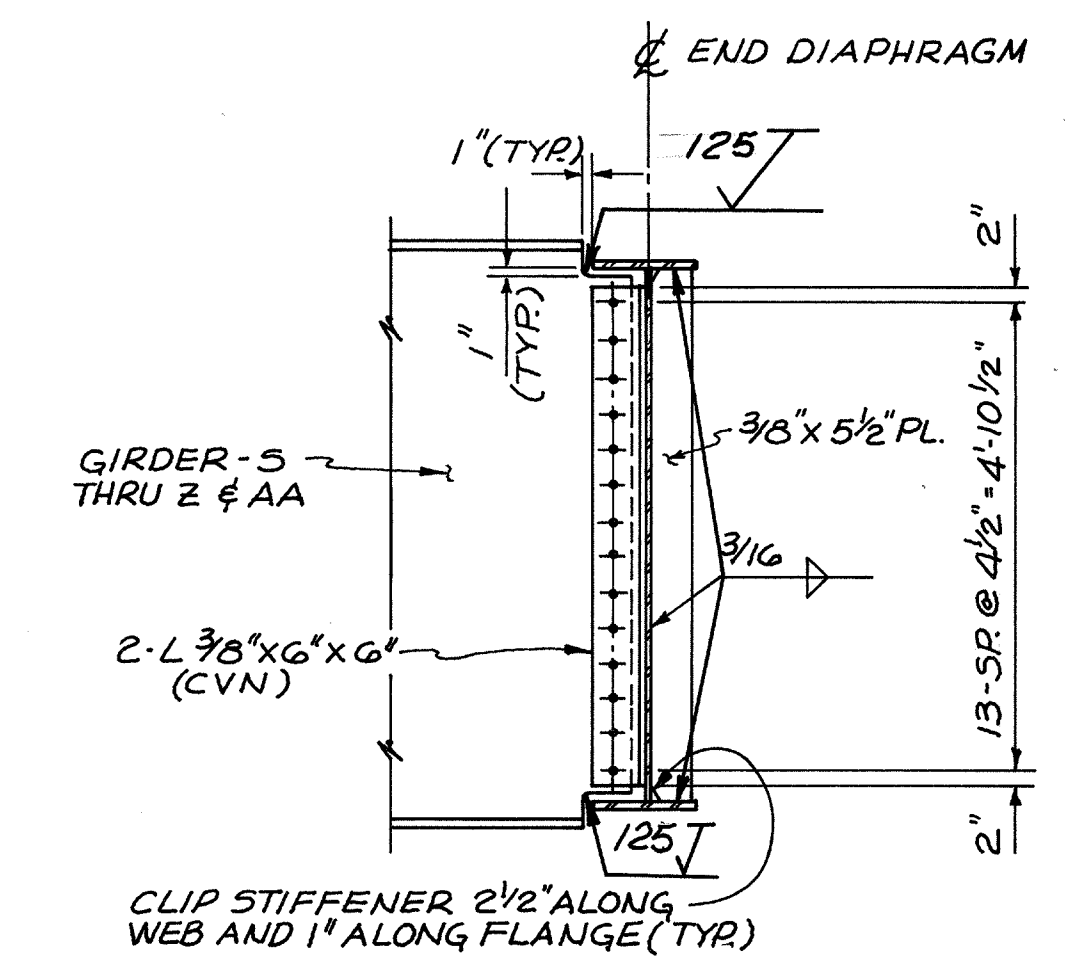
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		R.G.S.	J.B.H.	3-31-89	

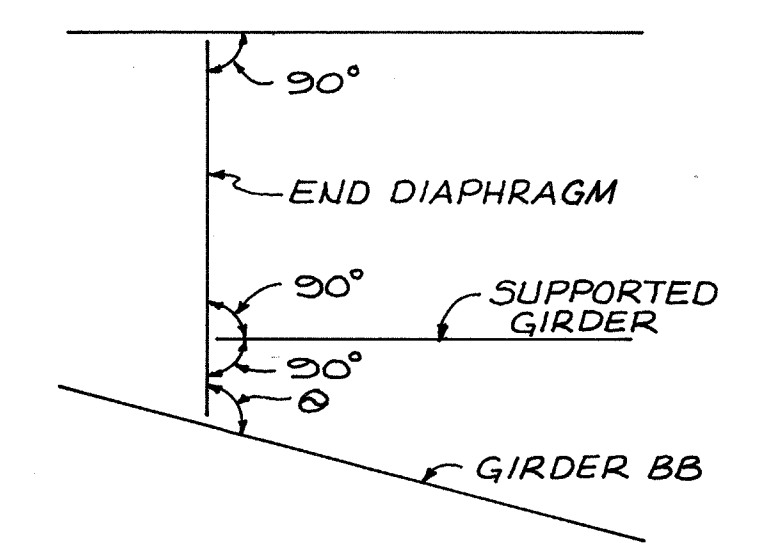


END DIAPHRAGM - GIRDERS S THRU Z & AA

(END DIAPHRAGM AT GIRDER - S, SHOWN)

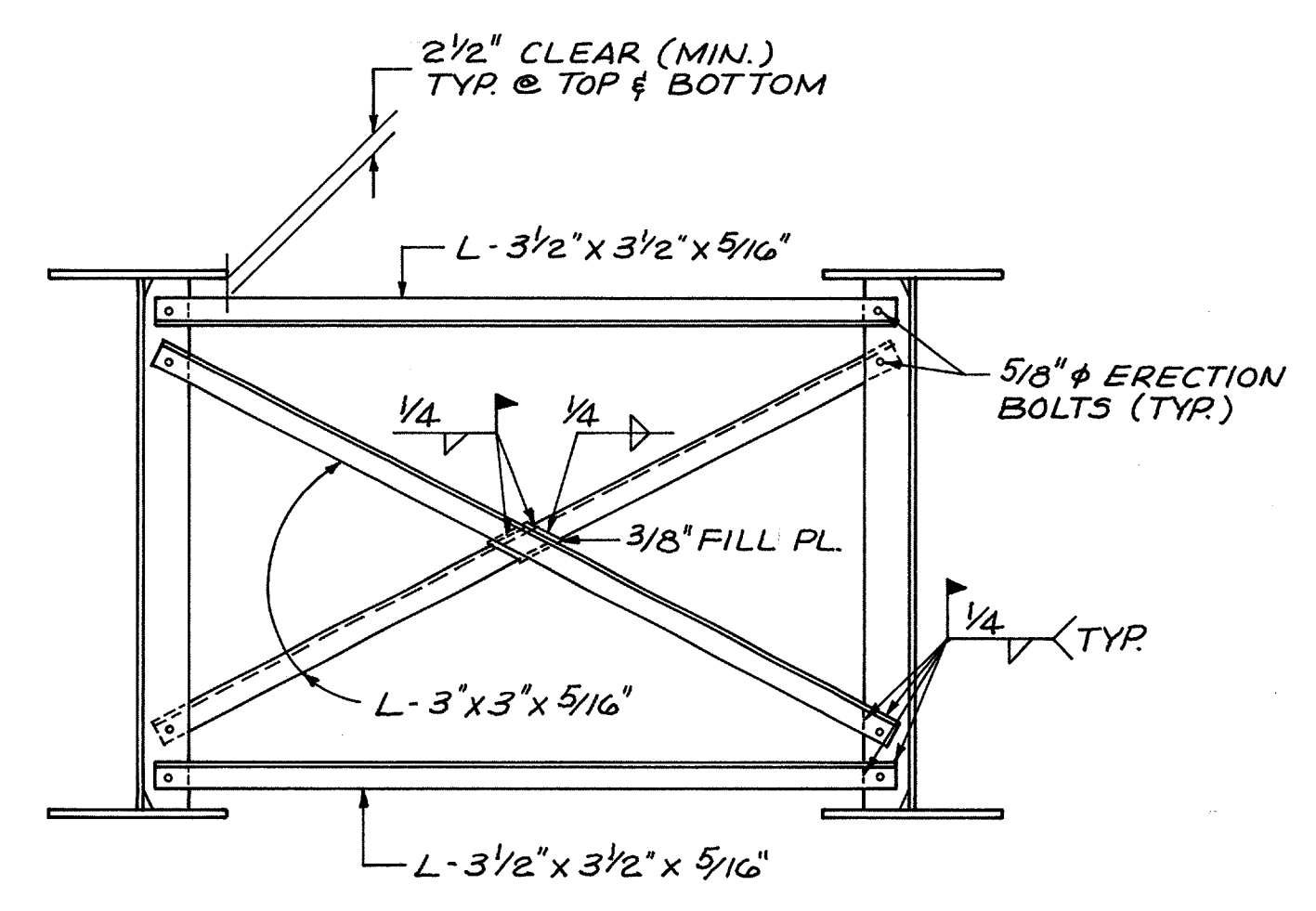


SECTION A-A

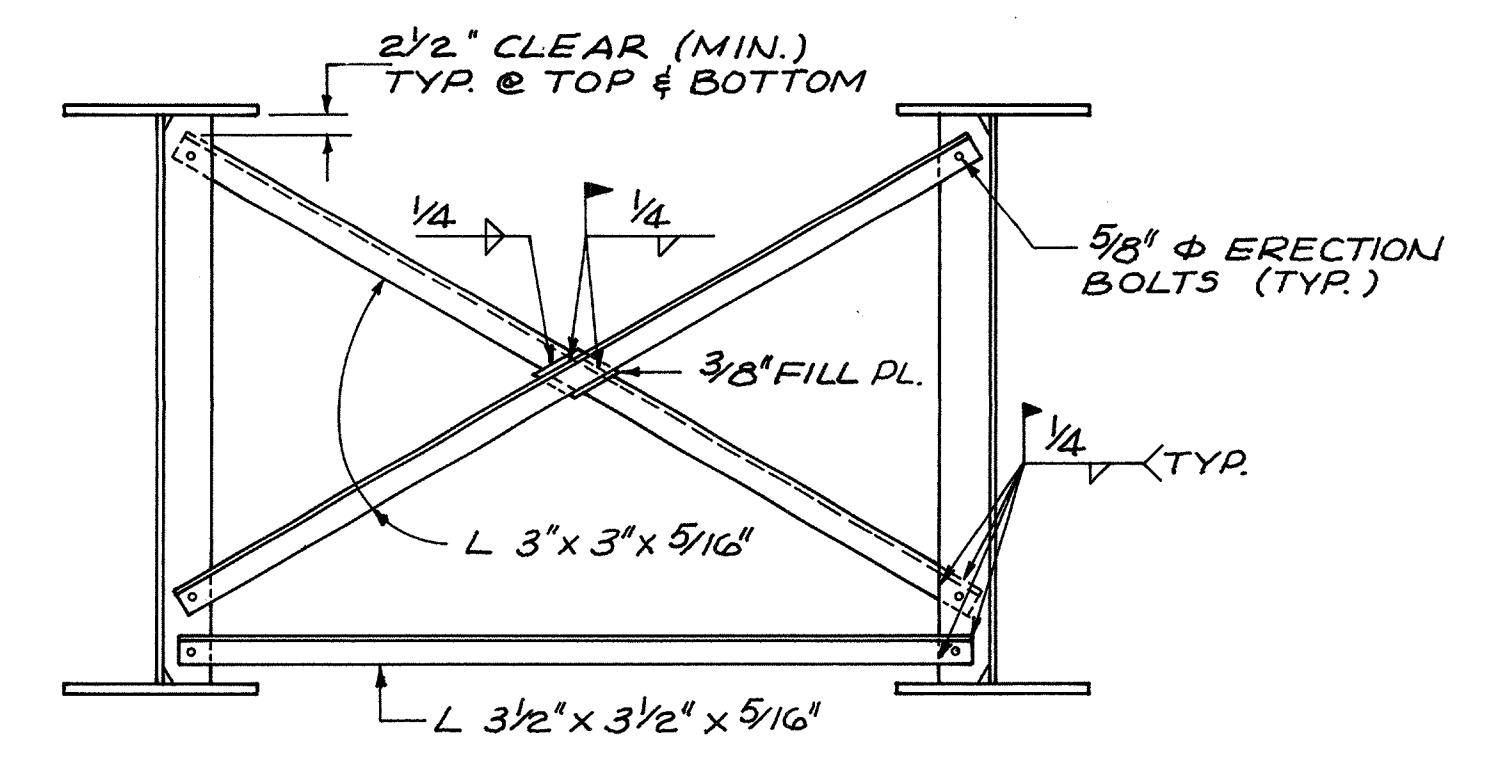


DETAIL I

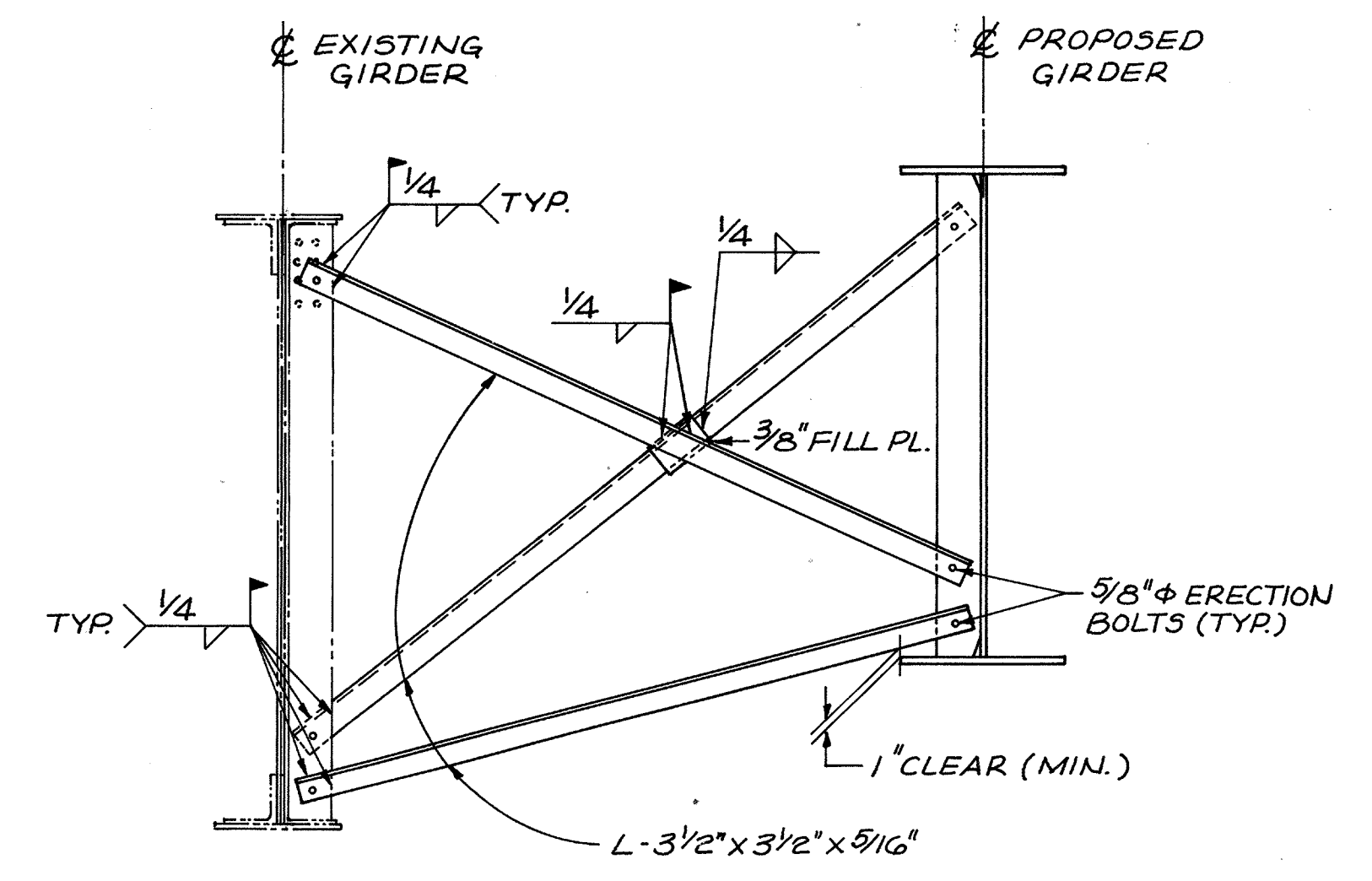
SUPPORTED GIRDER	ANGLE θ
S	98° 34' 13"
T	98° 34' 13"
U	102° 14' 31"
V	104° 02' 07"
W	104° 02' 07"
X	104° 02' 07"
Y	109° 21' 19"
Z	109° 21' 19"
AA	114° 33' 26"



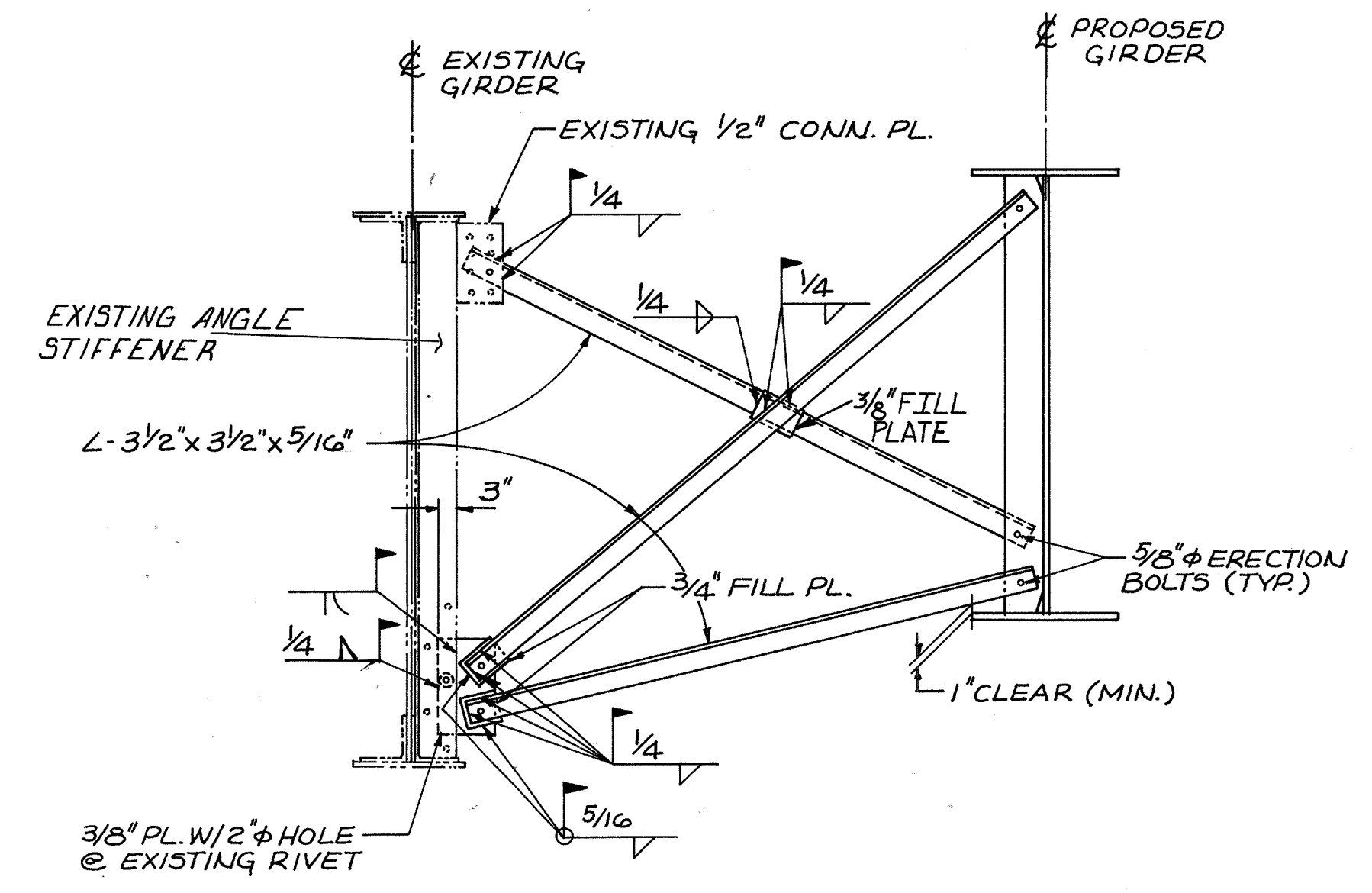
BEND POINT CROSS-FRAME



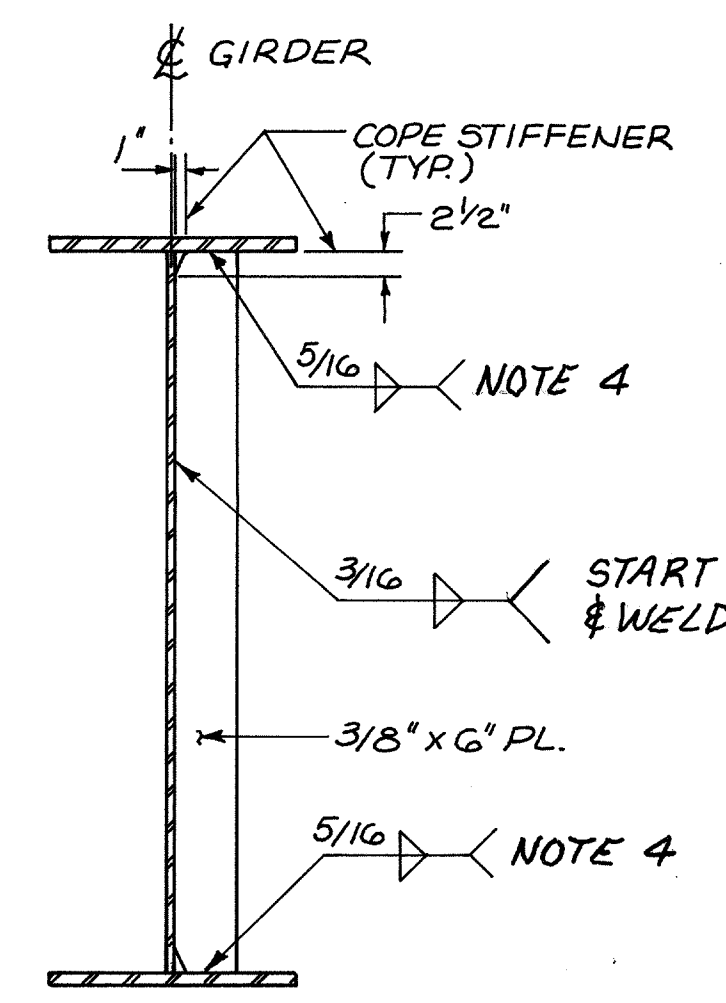
INTERMEDIATE CROSS-FRAME



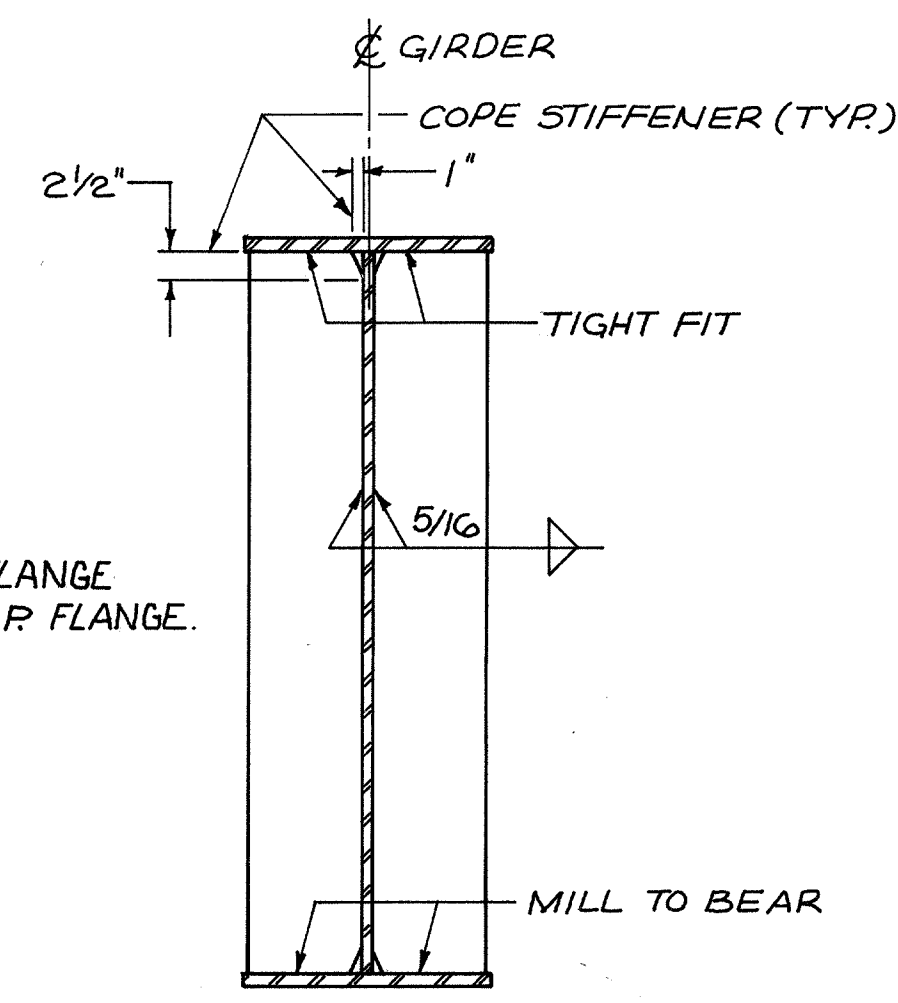
INTERMEDIATE CROSS-FRAME



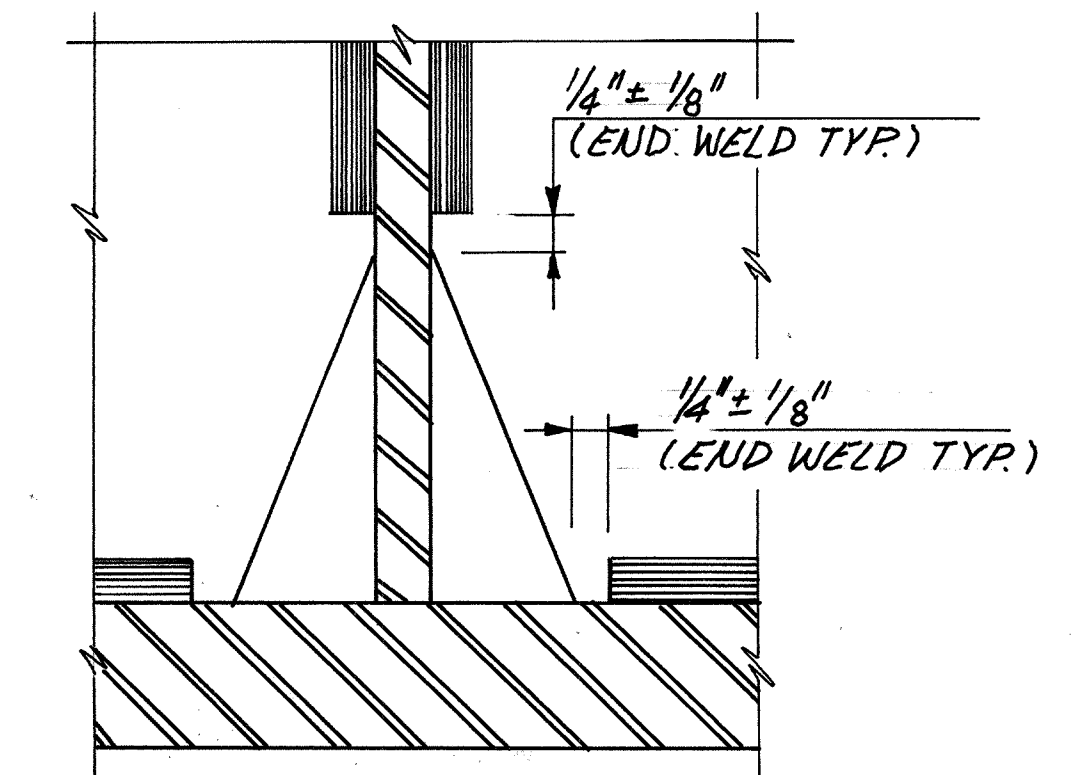
INTERMEDIATE CROSS-FRAME AT EXISTING PIER



INTERMEDIATE STIFFENER DETAIL



BEARING STIFFENER DETAIL



STIFFENER WELD DETAIL

NOTES

- FOR FRAMING PLANS, SEE SHEETS 62/120 THRU 67/120
- FOR GIRDER ELEVATIONS, SEE SHEETS 70/120 THRU 75/120
- WHERE A SHAPE OR PLATE IS DESIGNATED "CVN", THE MATERIAL SHALL MEET SPECIFIED MINIMUM TOUGHNESS REQUIREMENTS
- WELD TO THE COMPRESSION FLANGE ONLY WITH A TIGHT FIT TO THE TENSION FLANGE AT ALL INTERMEDIATE STIFFENERS WHERE CROSSFRAMES ARE NOT CONNECTED. WELD TO BOTH TENSION AND COMPRESSION FLANGE AT ALL STIFFENER LOCATIONS WHERE A CROSSFRAME IS CONNECTED.
- BOLTS FOR DIAPHRAGMS SHALL BE 1" φ A325 HIGH STRENGTH UNLESS OTHERWISE NOTED.

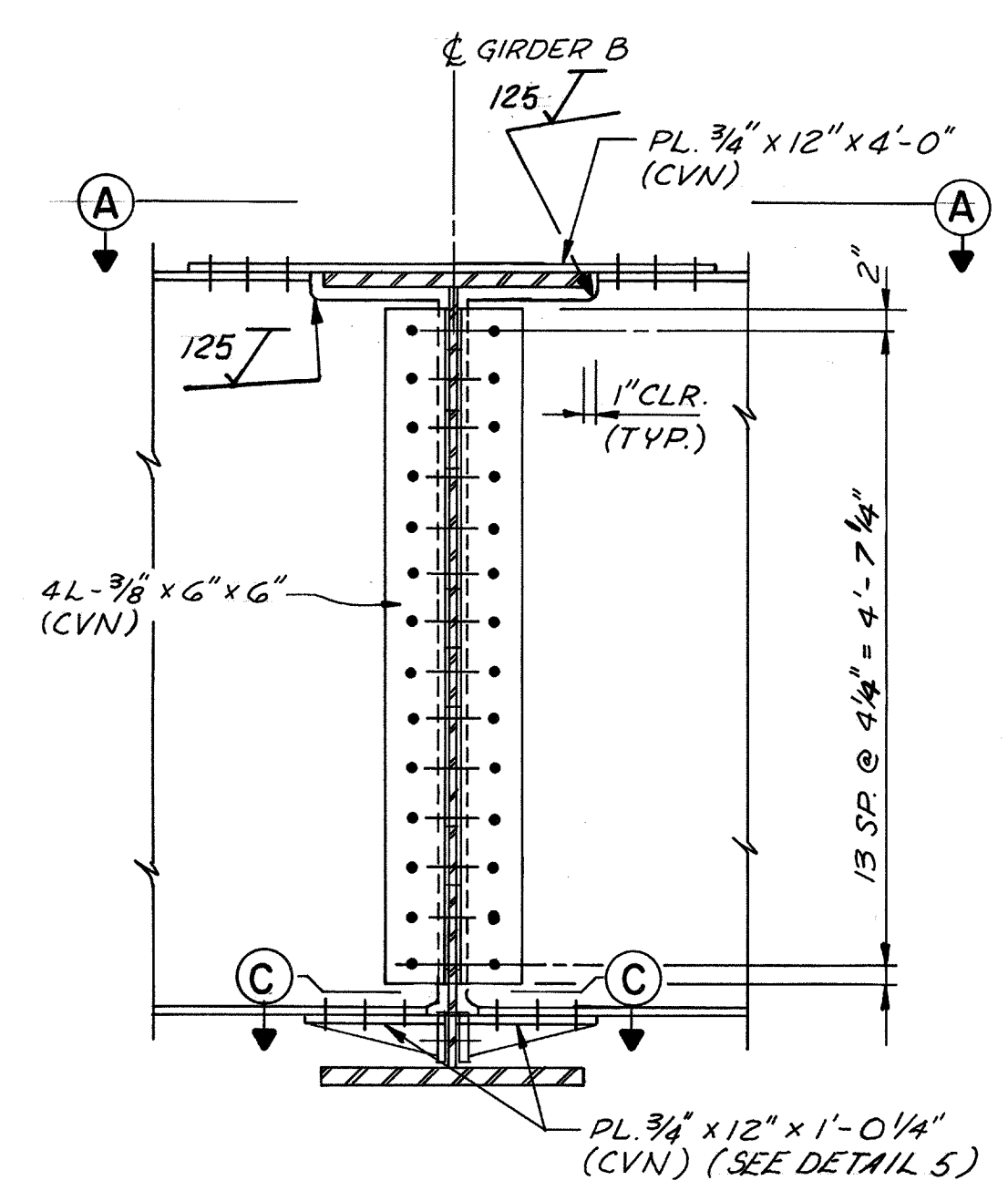
McCOY ASSOCIATES INC. 68/120
CONSULTING ENGINEERS
AKRON, OHIO

FRAMING DETAILS

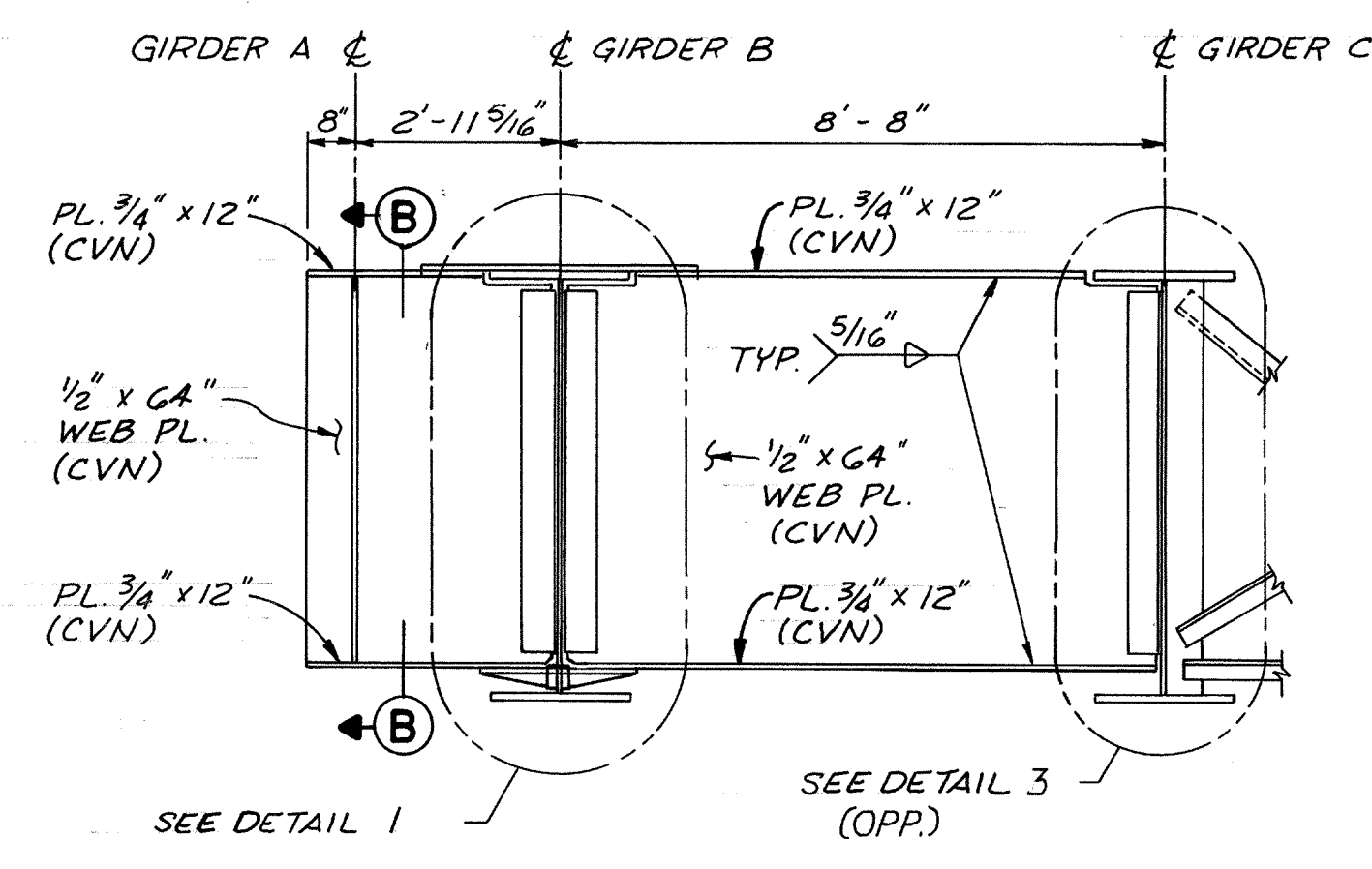
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
7E.V.	J.D.P.		RGS	JBH	3-31-89	

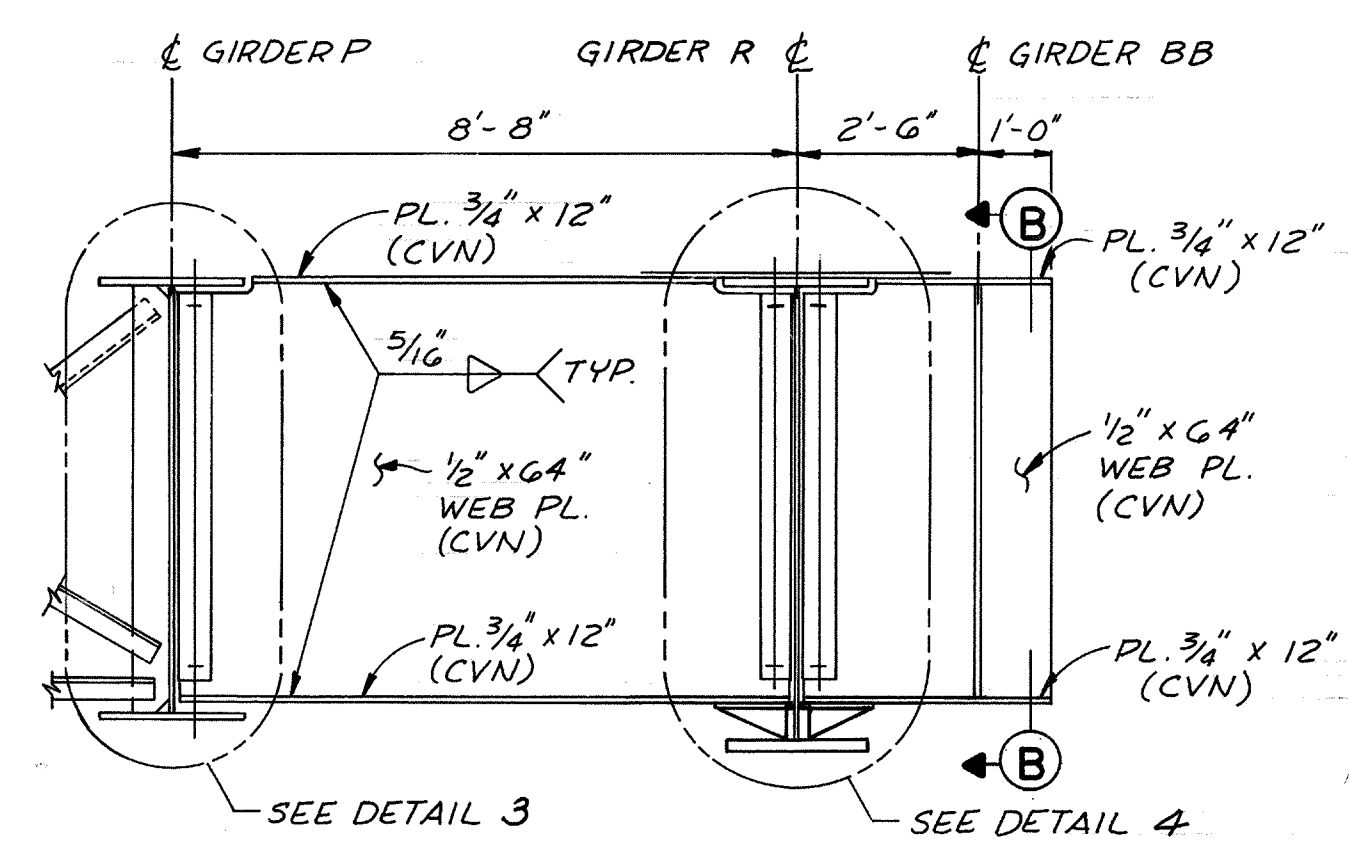
SUMMIT COUNTY
SUM 76-11.57



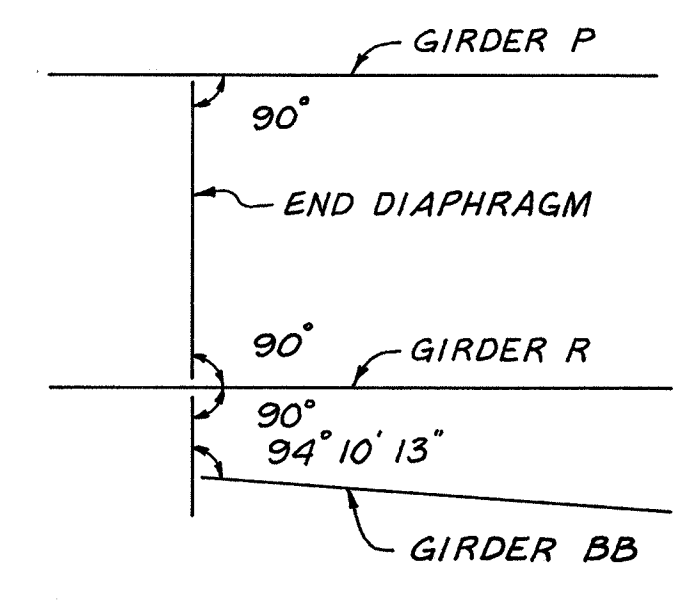
DETAIL 1



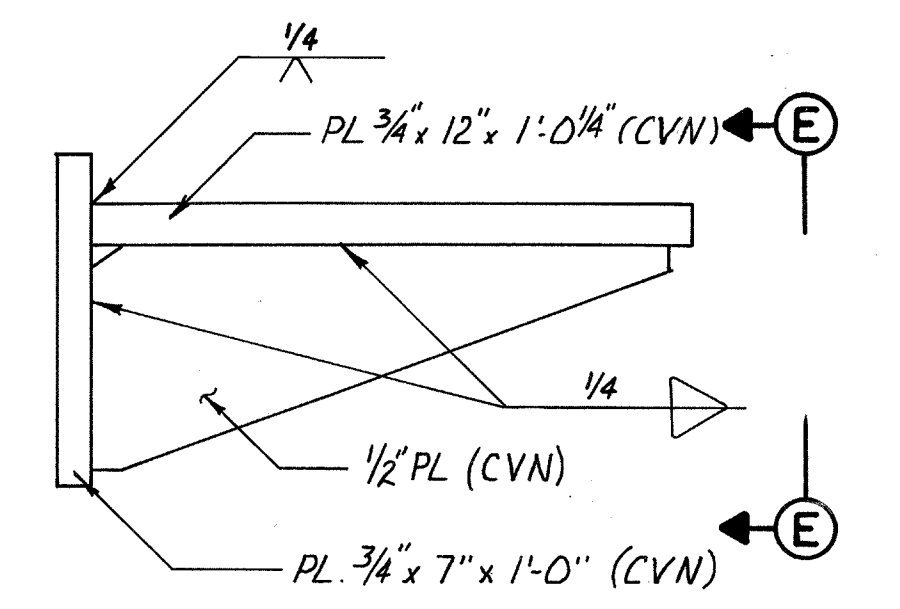
END DIAPHRAGM - GIRDER A



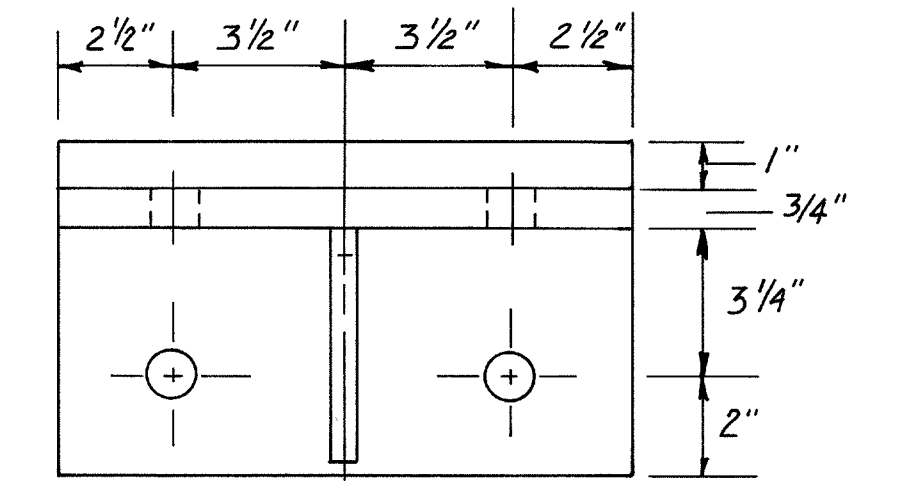
END DIAPHRAGM - GIRDER BB



DETAIL 2



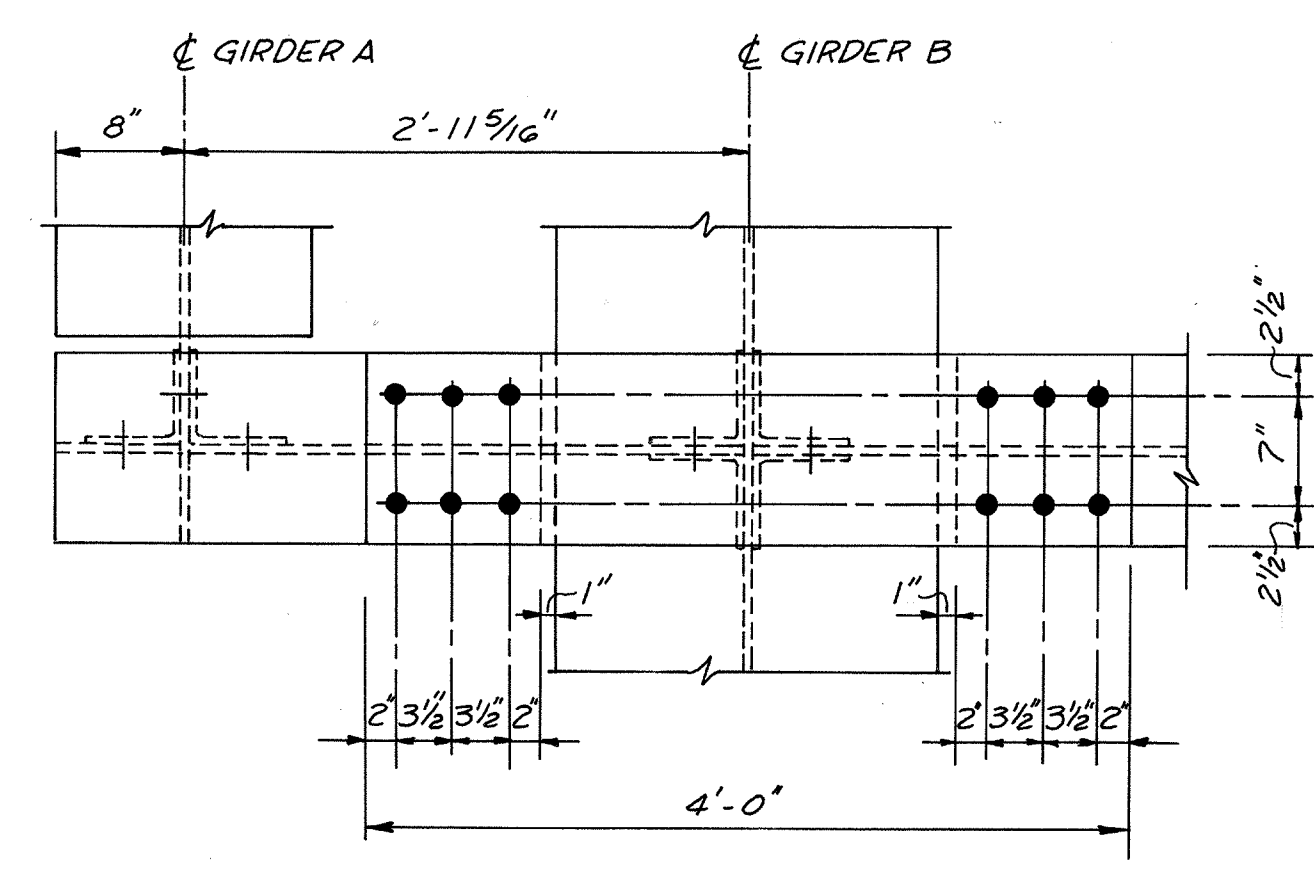
DETAIL 5



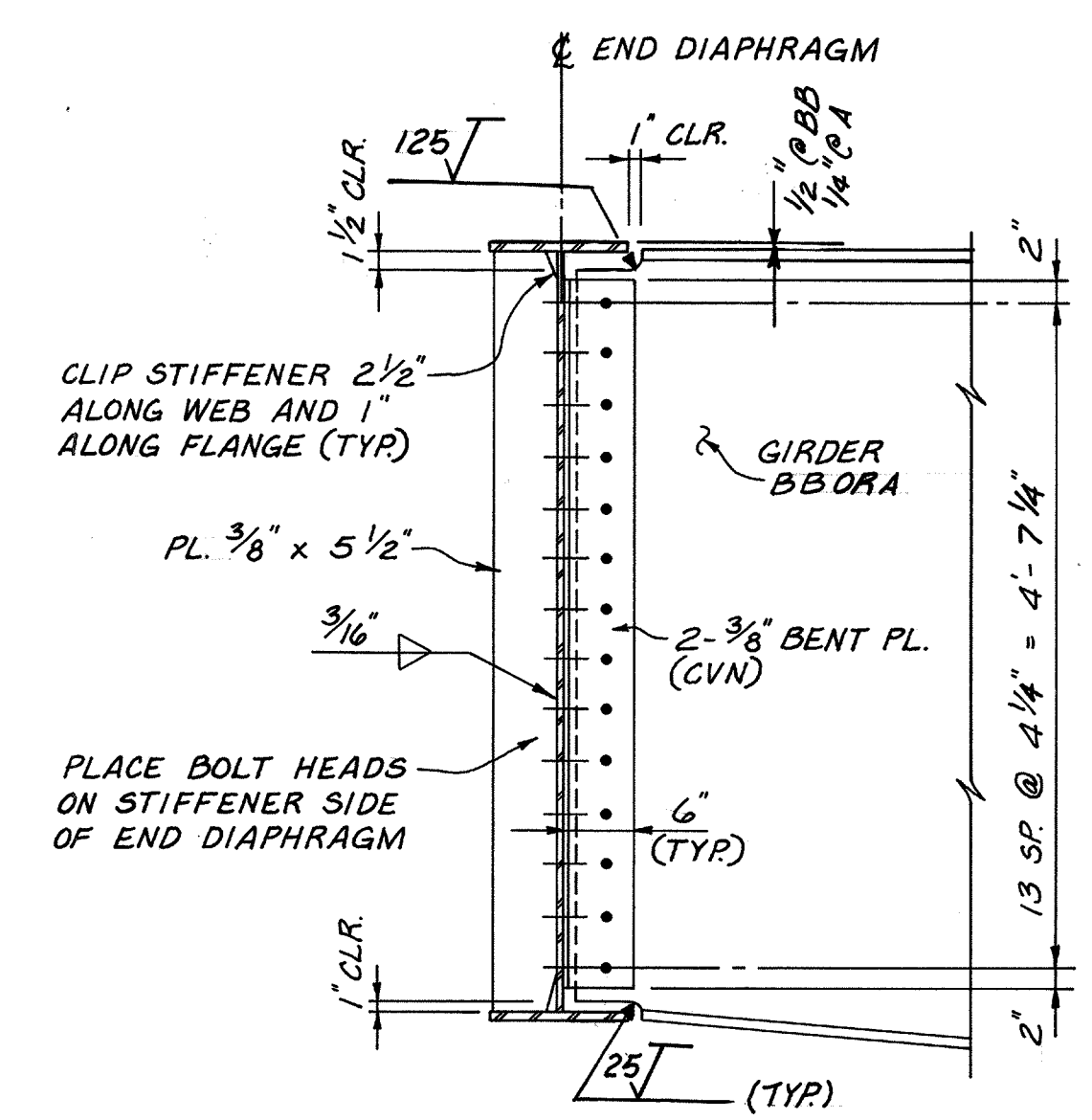
SECTION EE

NOTES

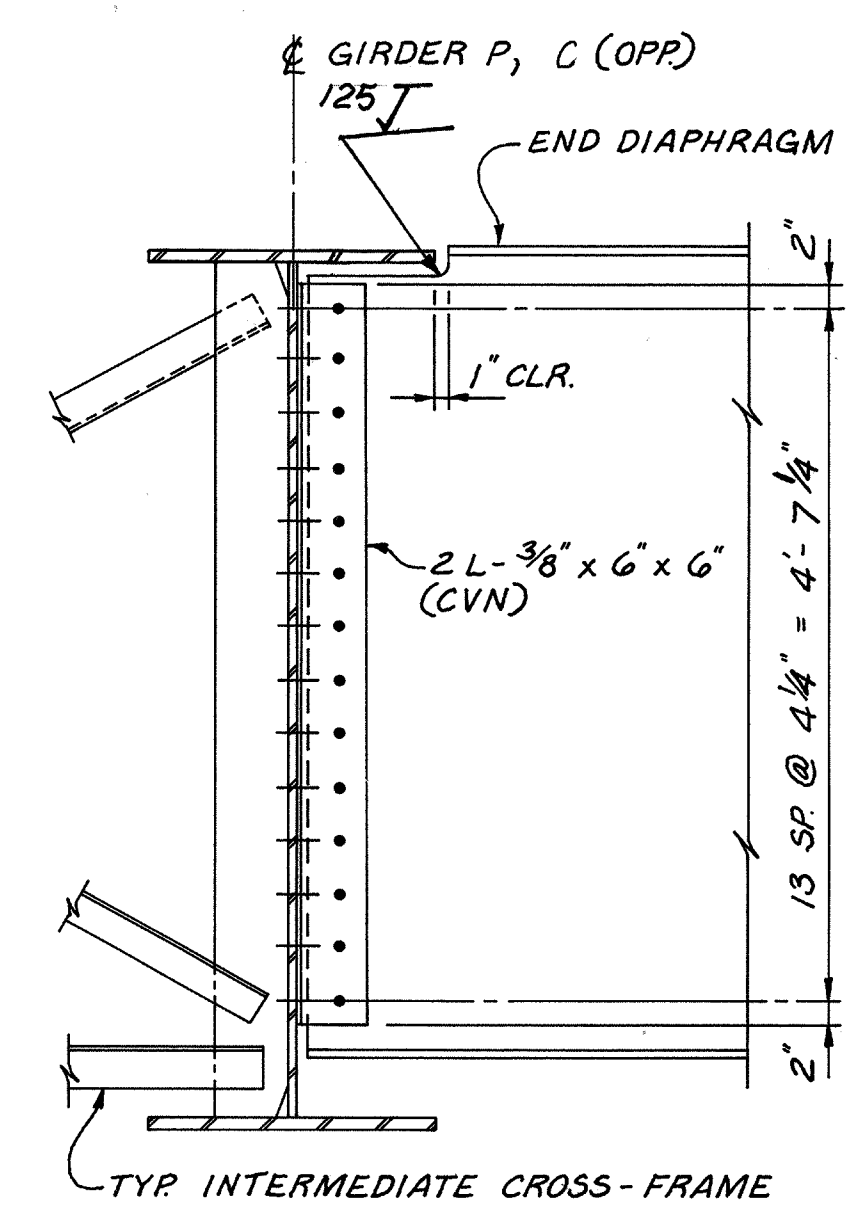
- ① FOR NOTES, SEE SHEET 68/120
- ② BOLTS FOR DIAPHRAGMS SHALL BE 1" # A325 (HIGH STRENGTH) UNLESS OTHERWISE NOTED.



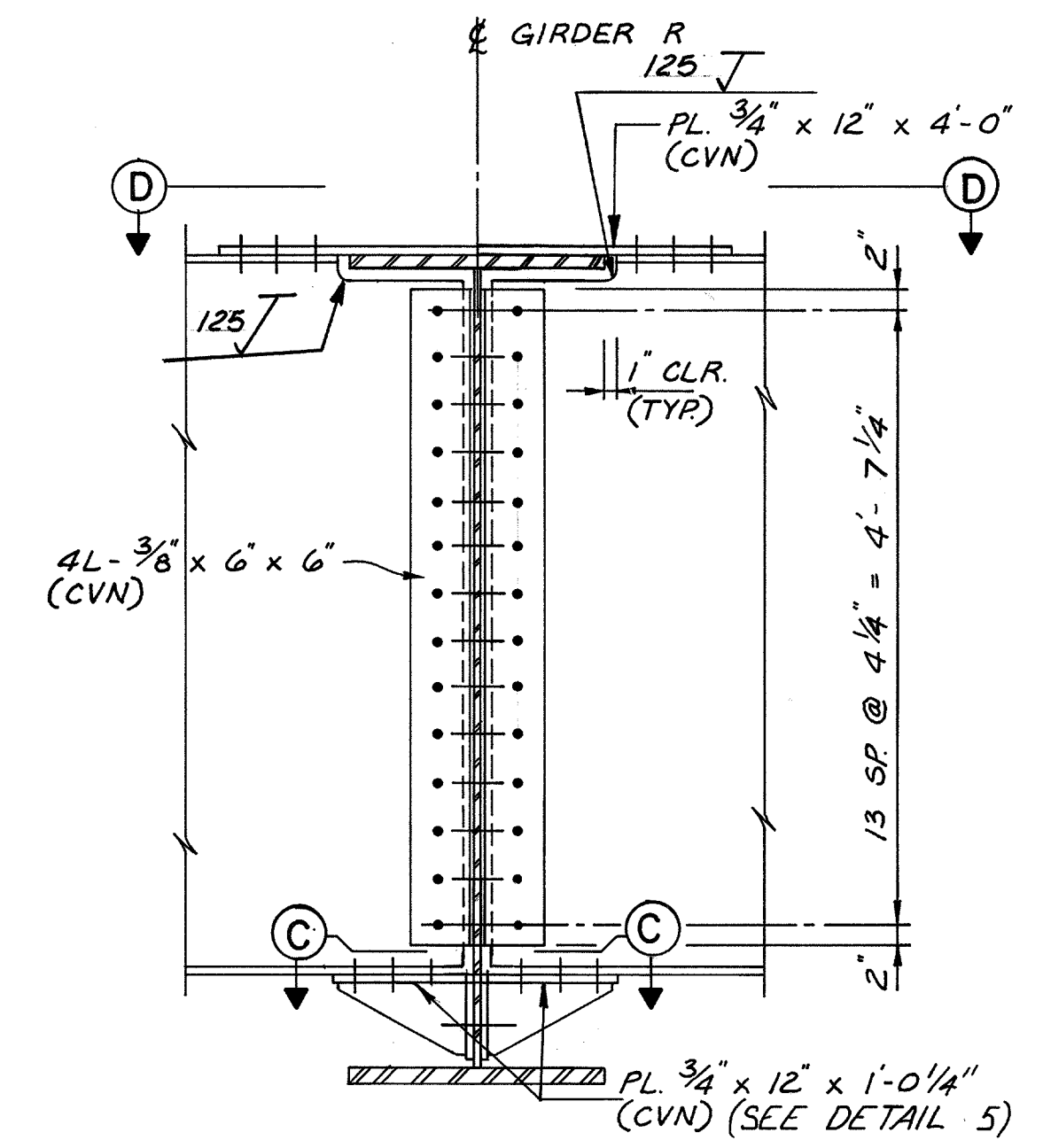
SECTION AA



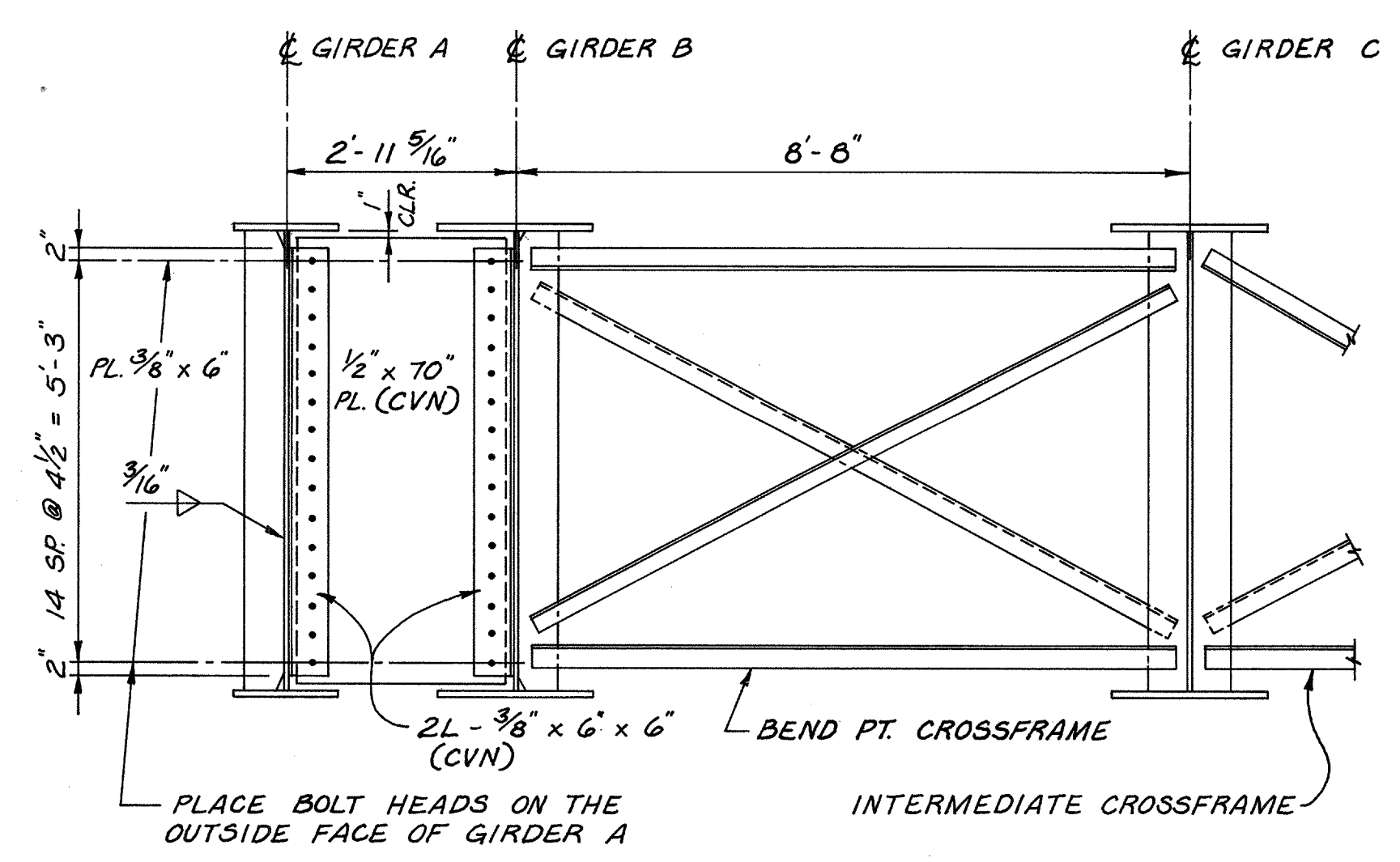
SECTION BB



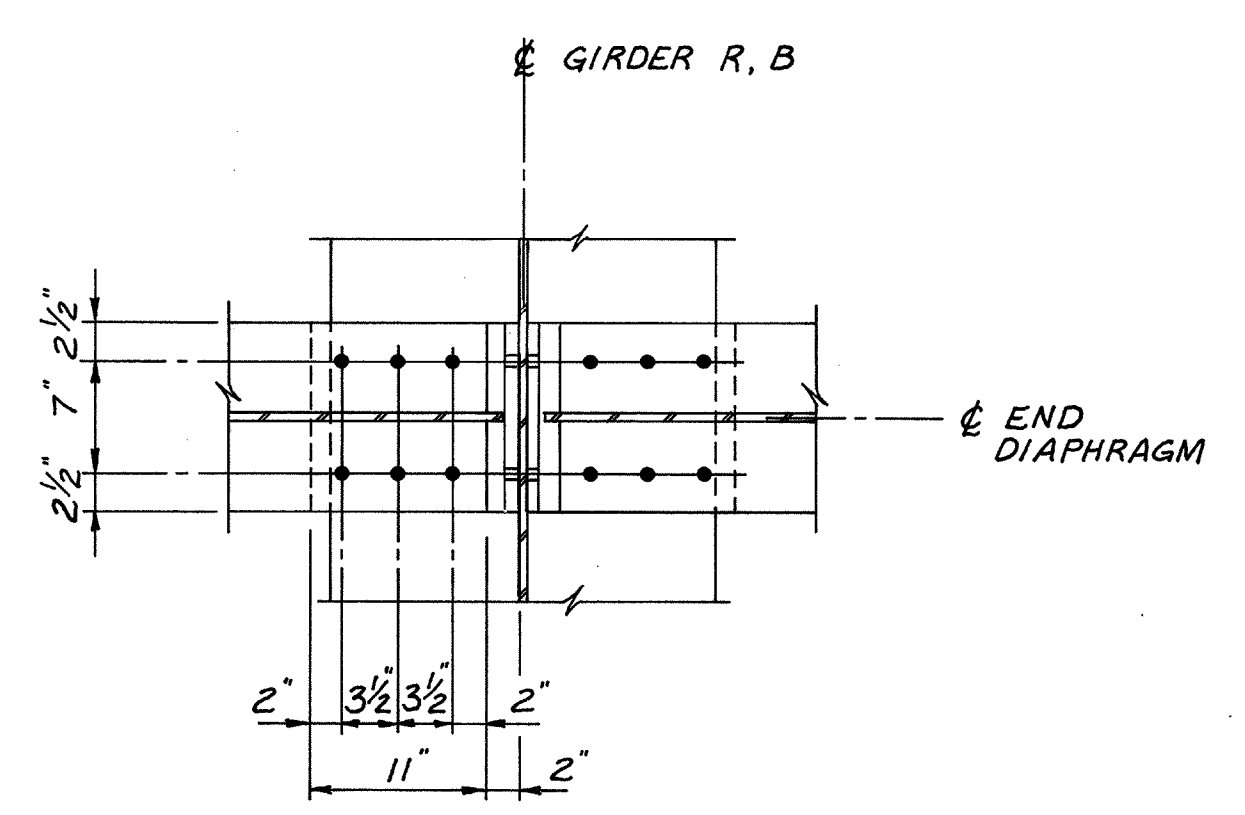
DETAIL 3



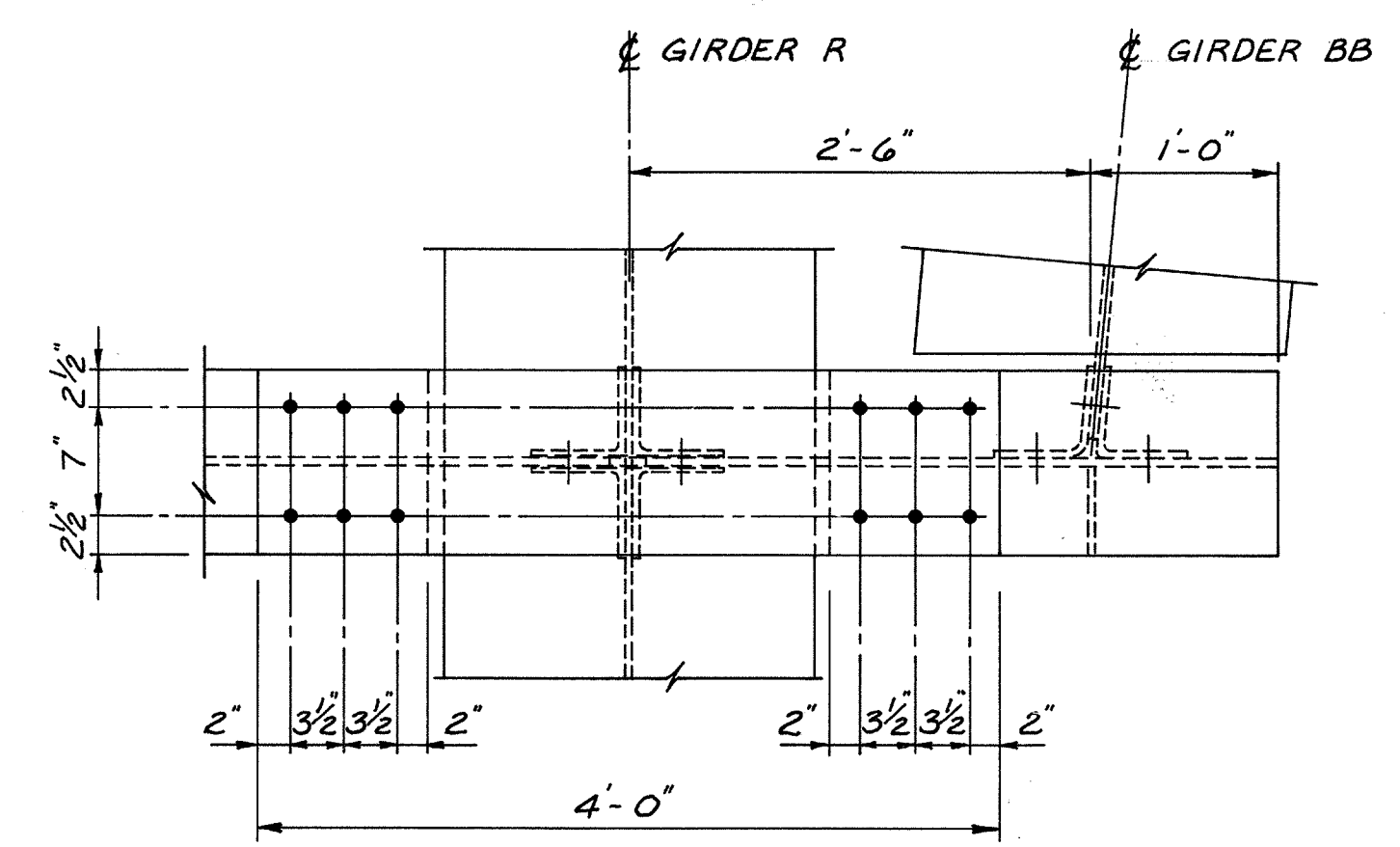
DETAIL 4



INTERMEDIATE DIAPHRAGM - GIRDER A



SECTION CC



SECTION DD

McCoy Associates Inc. 69/120
CONSULTING ENGINEERS
AKRON, OHIO

FRAMING DETAILS

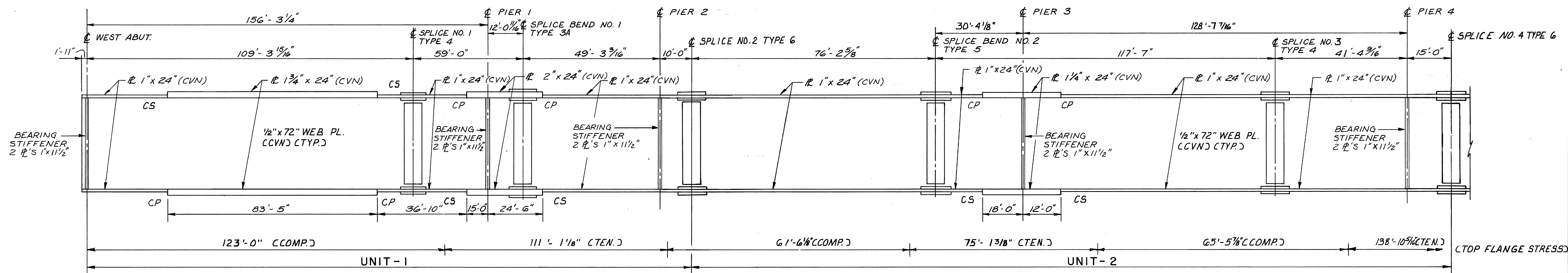
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	M.R.A.		JBH	3-31-89	

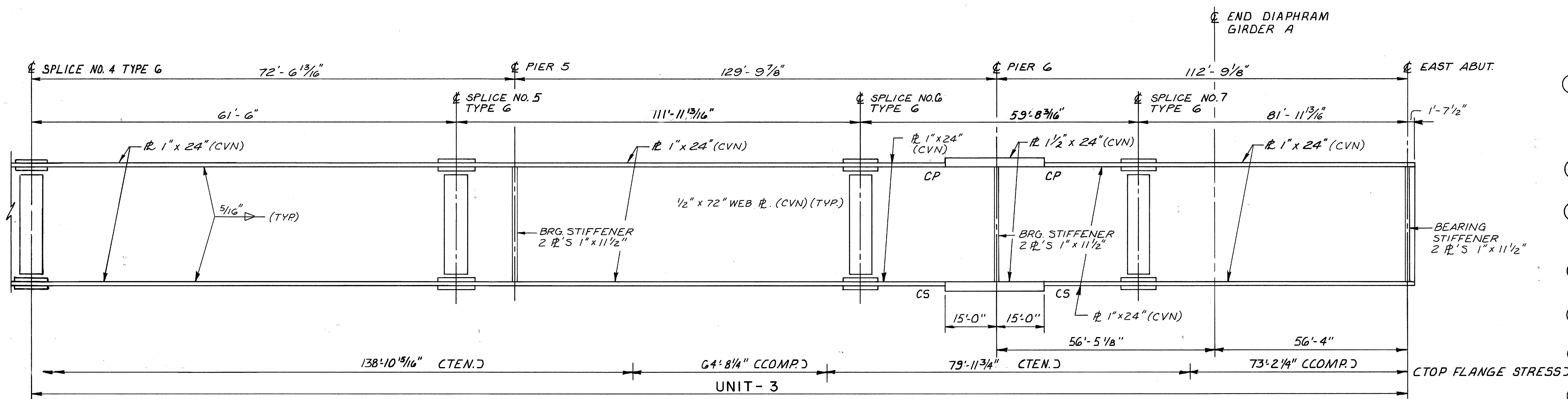
FHWA REGION	STATE	PROJECT
5	OHIO	

1014
1214

SUMMIT COUNTY
SUM 76-11.57



GIRDER ELEVATION



GIRDER ELEVATION

NOTES

- WELDED ATTACHMENTS FOR FINISHING MACHINE SUPPORTS MAY BE MADE TO THE TOP FLANGE ANYWHERE ALONG THE FASCIA GIRDERS EXCEPT IN AREAS MARKED (TEN)
- CS- INDICATES BUTT WELD SUBJECT TO COMPRESSIVE STRESS ONLY
- FOR FRAMING PLANS, SEE SHEETS 62/120 THRU 67/120
- FOR FRAMING NOTES, SEE SHEET 62/120
- CP- INDICATES FULL PENETRATION BUTT WELD
- A36 STEEL SHALL BE USED FOR NEW GIRDERS
- ALL FLANGE AND WEB STEEL SHALL BE (CVN). THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.

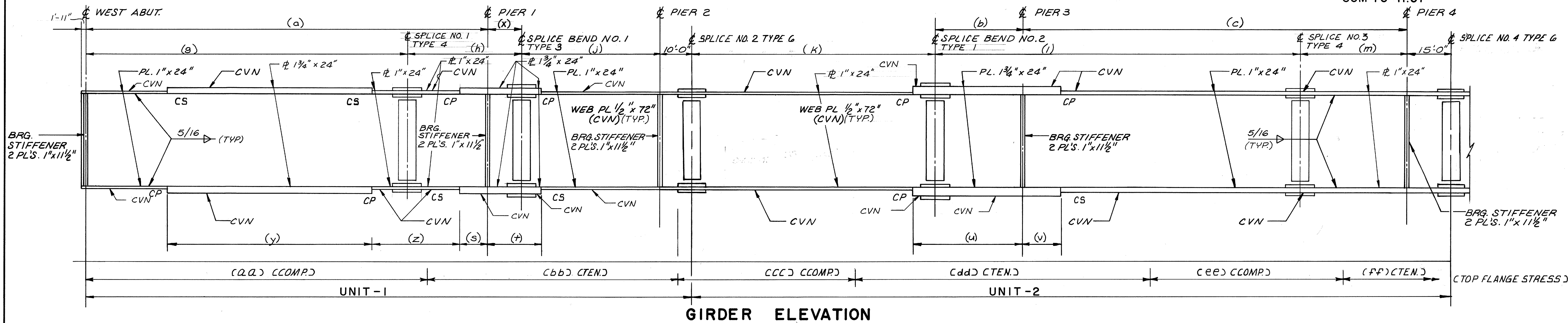
McCOY ASSOCIATES INC. 70/120
CONSULTING ENGINEERS
AKRON, OHIO

GIRDER ELEVATION B

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

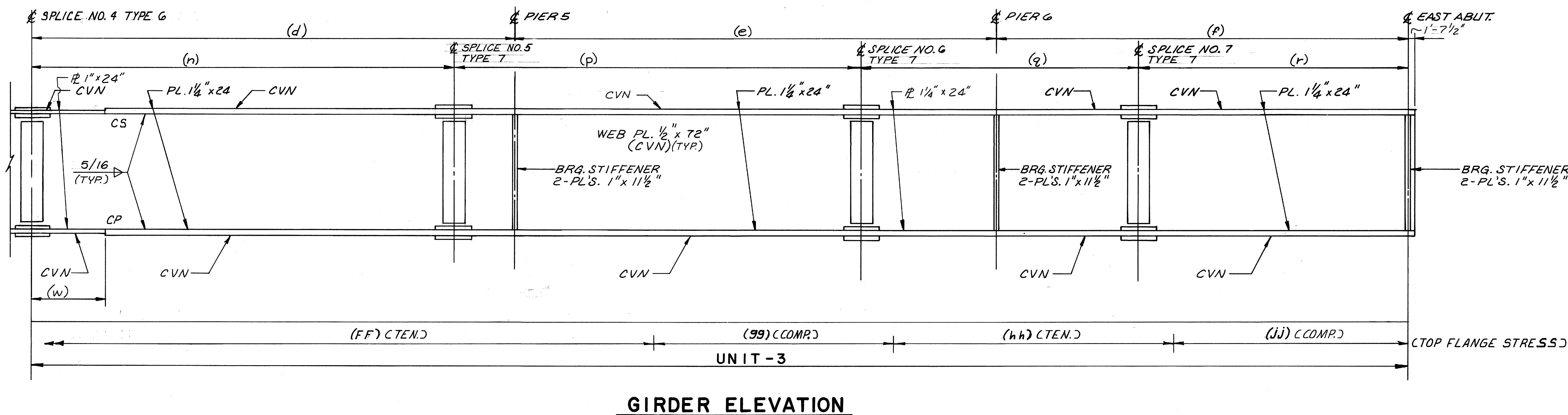
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	GT		T.E.N.	J.B.H.	3-31-89	

SUMMIT COUNTY
SUM 76-11.57



NOTES

(1) FOR NOTES, SEE SHEET 70/120



GIRDER	DIMENSION																							
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
C	149'-4 5/8"	29'-7 7/16"	129'-5 5/16"	76'-3 5/8"	129'-9 7/8"	112'-9 1/8"	103'-0 7/16"	58'-7"	49'-1 1/16"	76'-9 1/4"	119'-9 3/8"	39'-4"	67'-3"	100'-0"	71'-9"	79'-10 5/8"	15'-0"	18'-5"	34'-6"	13'-1"	12'-7"	12'-3 1/2"	84'-8"	34'-10"
D	142'-5 5/16"	28'-10 1/16"	130'-4 1/2"	80'-0 3/8"	129'-9 15/16"	112'-9 1/8"	100'-2 5/8"	54'-9"	48'-11 3/4"	77'-3 1/16"	119'-11 3/16"	39'-4"	70'-6"	100'-5"	72'-9 1/2"	78'-10 15/16"	15'-0"	18'-5"	34'-10"	13'-1"	13'-6"	12'-6 3/16"	80'-6"	32'-9"
E	135'-6 3/16"	28'-3 3/8"	131'-1 1/16"	83'-9 3/16"	129'-10"	112'-9 1/8"	94'-10 1/2"	53'-5"	48'-10"	77'-10 1/16"	120'-0 5/16"	39'-4"	74'-10"	101'-10"	70'-9 1/2"	78'-10 3/16"	15'-0"	18'-5"	35'-1"	13'-1"	14'-5"	12'-8 15/16"	64'-11"	30'-8"

GIRDER	DIMENSION								
	(aa)	(bb)	(cc)	(dd)	(ee)	(ff)	(gg)	(hh)	(jj)
C	118'-9 5/8"	106'-6"	60'-10"	79'-11 7/8"	64'-11 1/8"	143'-00"	67'-11 1/4"	71'-4 3/16"	77'-2 1/4"
D	113'-10 3/16"	105'-5 3/8"	61'-8 1/8"	77'-9 3/4"	65'-4 7/16"	148'-0 3/16"	67'-3 1/4"	71'-3"	77'-4 3/16"
E	107'-9 5/8"	105'-6"	58'-0 3/4"	80'-2 1/4"	65'-8 7/8"	153'-3 1/4"	66'-7 13/16"	71'-1 7/16"	77'-5 1/4"

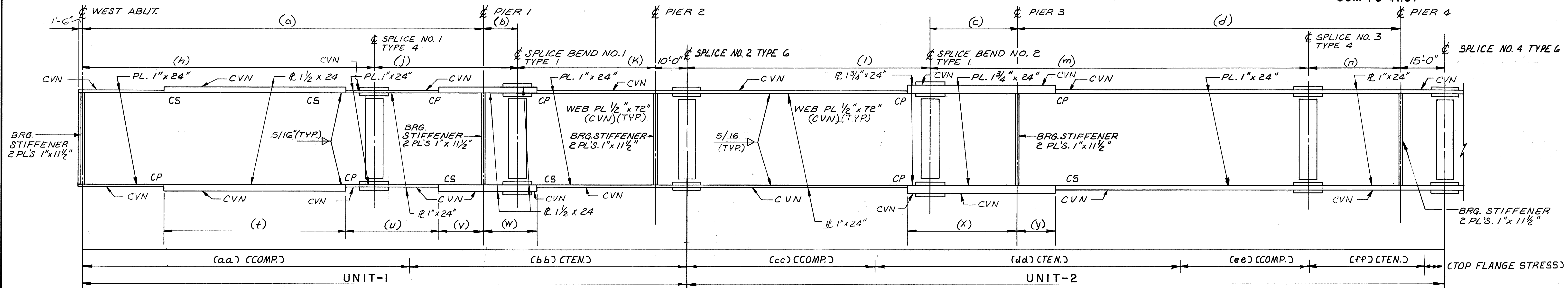
McCoy Associates Inc. 71/120
CONSULTING ENGINEERS
AKRON, OHIO

**GIRDER ELEVATION
C, D & E**

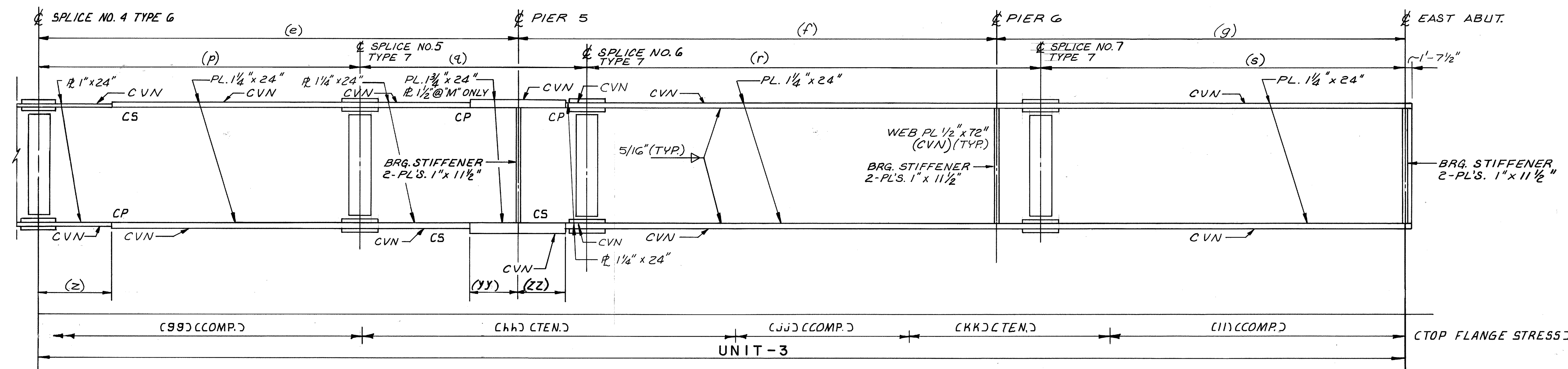
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RGS	Gt		T.E.N.	J.B.H.	3-31-89	

SUMMIT COUNTY
SUM 76-11.57



GIRDER ELEVATION



GIRDER ELEVATION

NOTES
① FOR NOTES, SEE SHEET 70/120

GIRDER	DIMENSION																									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	(yy)	(zz)
M	134'-5"	13'-9"	29'-8 3/4"	131'-0 9/16"	124'-3 1/8"	129'-10 1/16"	112'-9 1/8"	94'-1"	54'-1"	47'-3"	84'-0 1/16"	121'-5 1/16"	39'-4"	82'-9 1/2"	78'-6"	102'-2"	103'-6"	62'-2"	30'-4"	15'-0"	18'-4"	37'-5"	13'-1 1/2"	29'-5"	13'-10"	13'-0"
N	135'-11 5/8"	12'-5 3/8"	29'-10 1/8"	131'-0 7/8"	128'-0 3/4"	131'-4 7/8"	111'-2 1/4"	95'-2"	53'-2 5/8"	47'-1 5/8"	84'-7 1/16"	121'-7 1/16"	39'-4"	85'-8"	81'-4"	102'-2"	101'-6 3/8"	63'-0"	30'-9 1/2"	15'-0"	17'-10"	37'-8"	13'-1 1/2"	27'-2"	14'-2"	13'-0"
P	137'-5 5/8"	11'-1 3/4"	30'-0 1/8"	131'-0 1/16"	131'-9 3/8"	132'-11 5/16"	109'-8 5/16"	96'-3"	52'-4 3/8"	46'-11 3/8"	85'-1 7/16"	121'-9 3/4"	39'-4"	85'-11"	84'-10"	102'-2"	101'-6 3/8"	67'-3"	31'-3"	15'-0"	17'-4"	37'-11"	13'-1 1/2"	29'-2"	14'-8"	13'-0"
	(aa)	(bb)	(cc)	(dd)	(ee)	(ff)	(gg)	(hh)	(jj)	(kk)	(ll)															
M	108'-10 3/8"	105'-6 3/8"	68'-5 7/8"	78'-9 1/16"	42'-2"	85'-8 1/4"	61'-5 3/4"	85'-4"	38'-10 3/4"	80'-4 1/16"	76'-7 1/16"															
N	110'-1 7/16"	104'-4 13/16"	69'-4 1/8"	79'-4 7/16"	39'-9 9/16"	86'-8 1/4"	65'-1 1/2"	86'-10"	42'-8 3/4"	76'-4 7/16"	75'-4 1/2"															
P	111'-8"	103'-1 5/16"	70'-2 1/8"	79'-11 7/8"	36'-3 1/8"	88'-7 1/16"	69'-5 1/16"	88'-2 3/4"	41'-11 3/4"	79'-9 1/2"	72'-9 5/8"															

McCOY ASSOCIATES INC. 72/120
CONSULTING ENGINEERS
AKRON, OHIO

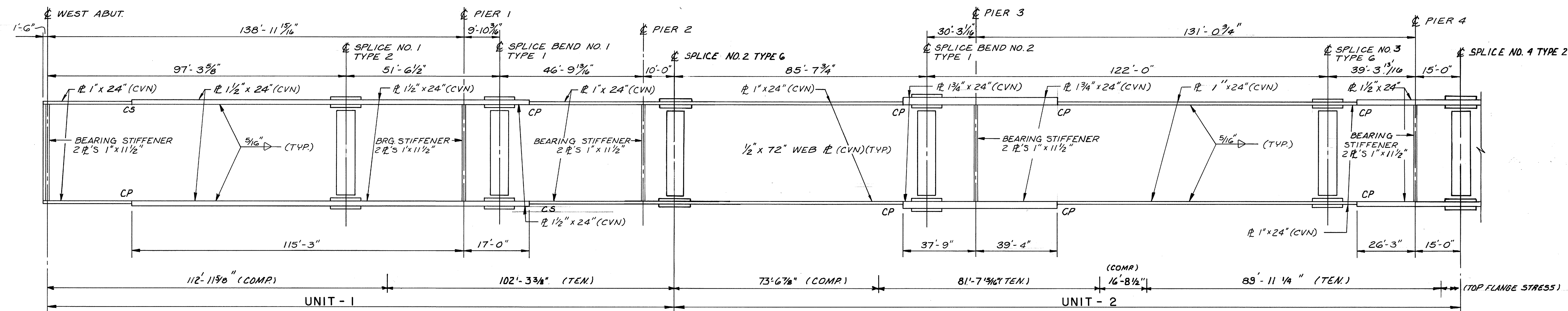
**GIRDER ELEVATION
M, N & P**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RGS	DAK		T.E.H.	JBH	3-31-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

1017
1214

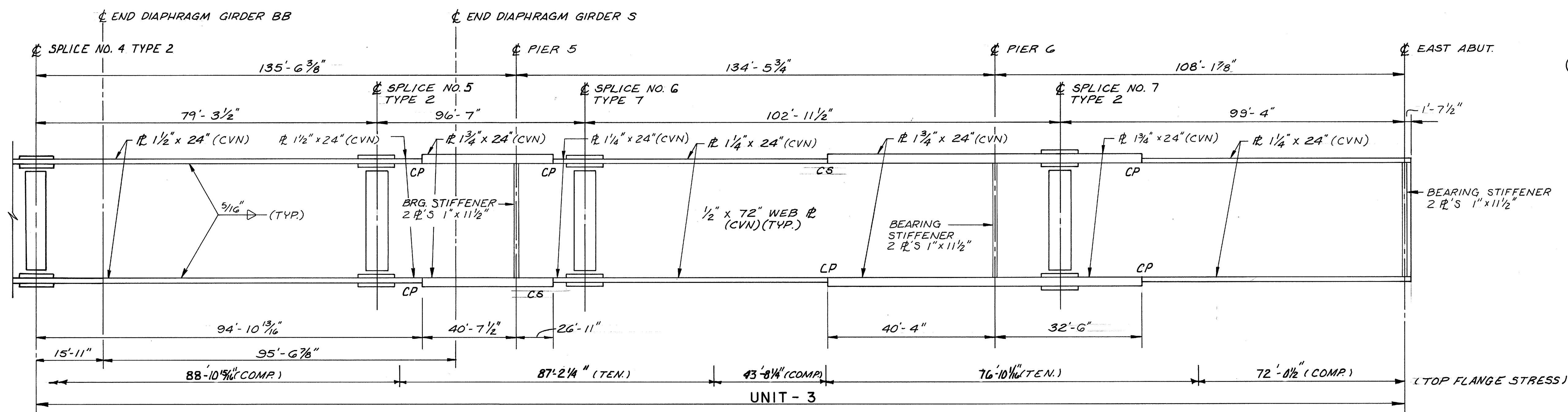
SUMMIT COUNTY
SUM 76-11.57



GIRDER ELEVATION

NOTES

① FOR NOTES, SEE SHEET 70/120



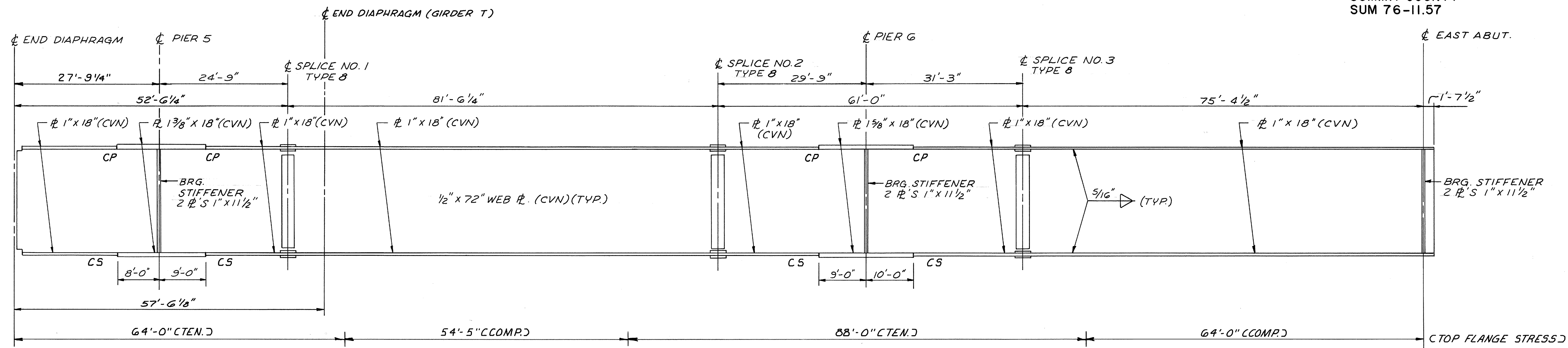
GIRDER ELEVATION

McCOY ASSOCIATES INC.		73/120
CONSULTING ENGINEERS AKRON, OHIO		
GIRDER ELEVATION R		
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT		
DESIGNED	DRAWN	TRACED
RGS	Gf	T.E.N.
CHECKED	REVIEWED	DATE
T.E.N.	J.B.H.	3-31-89
REVIS		

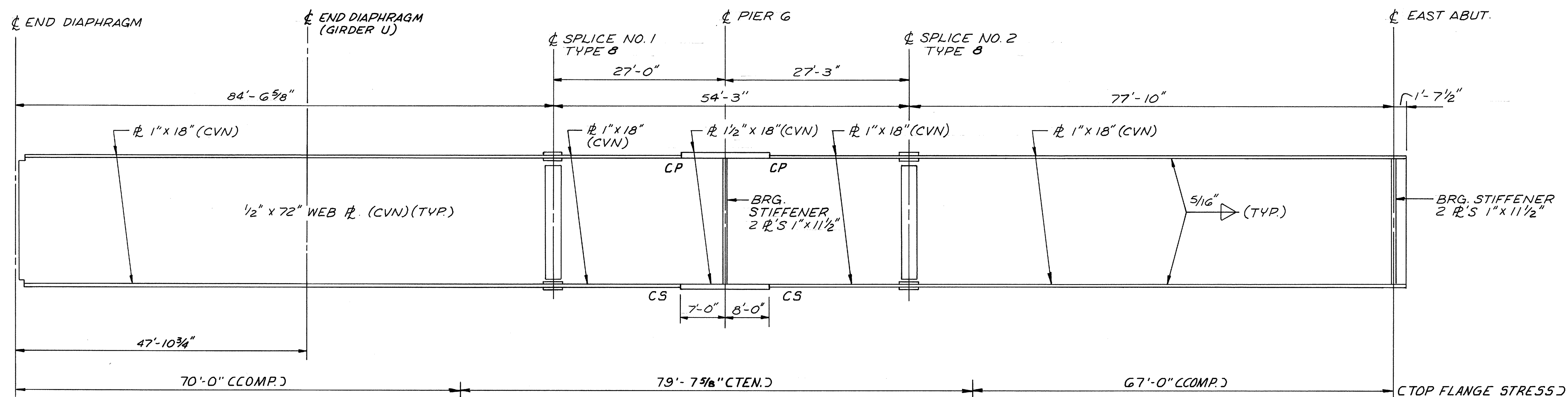
FHWA REGION	STATE	PROJECT	
5	OHIO		

1018
12.14

SUMMIT COUNTY
SUM 76-11.57



GIRDER S ELEVATION



GIRDER T ELEVATION

NOTES

① FOR NOTES, SEE SHEET 70/120

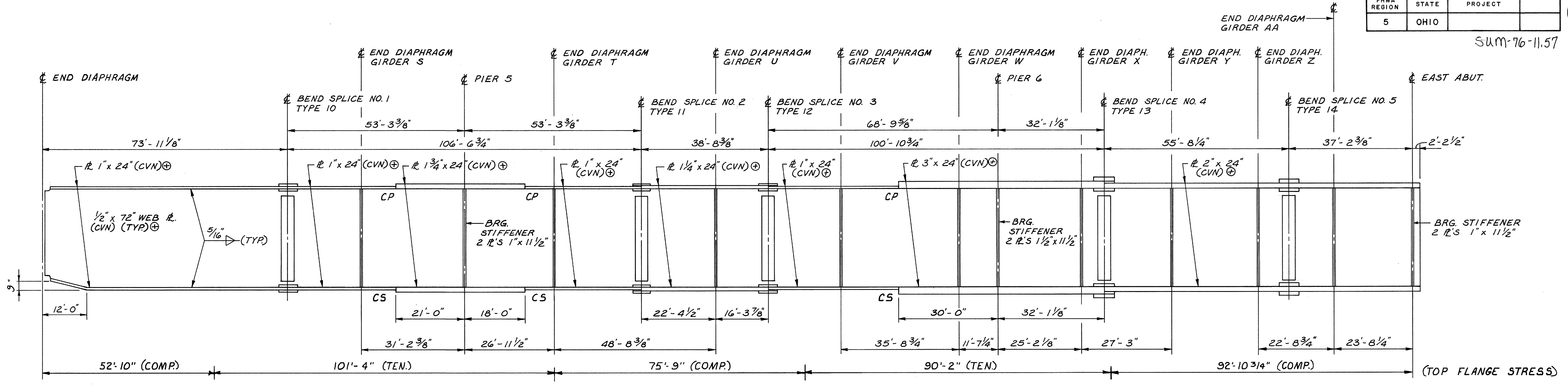
McCOY ASSOCIATES INC. 74/120
CONSULTING ENGINEERS
AKRON, OHIO

**GIRDER ELEVATION
S, T**

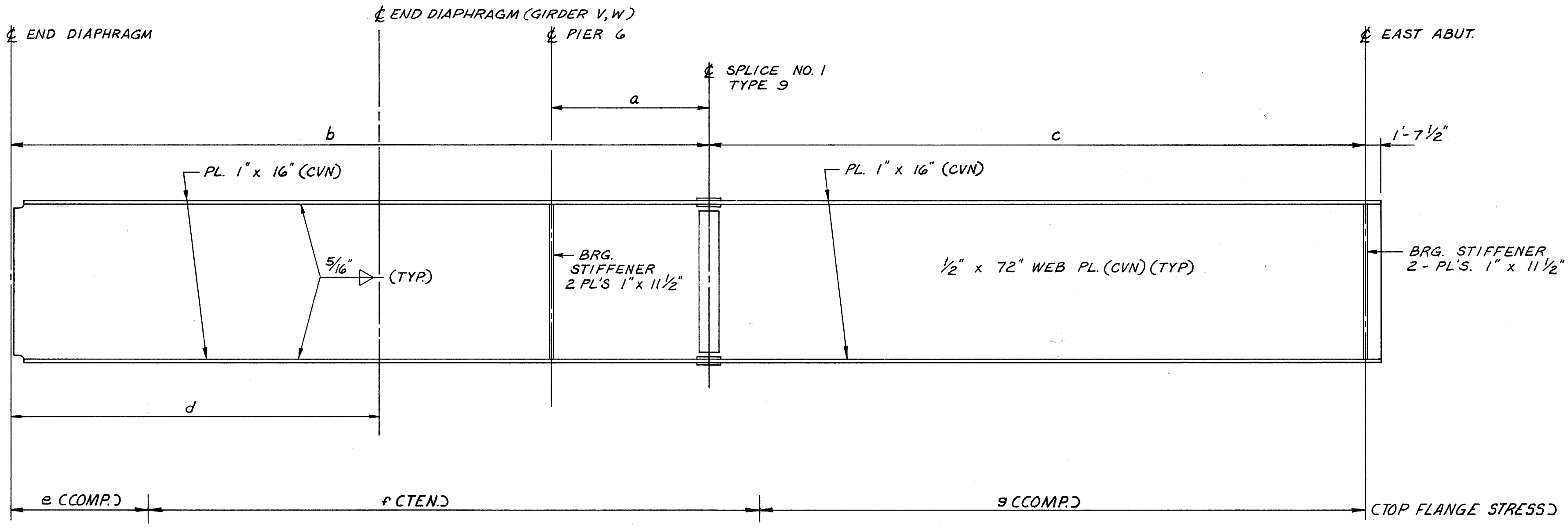
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	MRA	T.E.N.	J.B.H.	3-31-89	

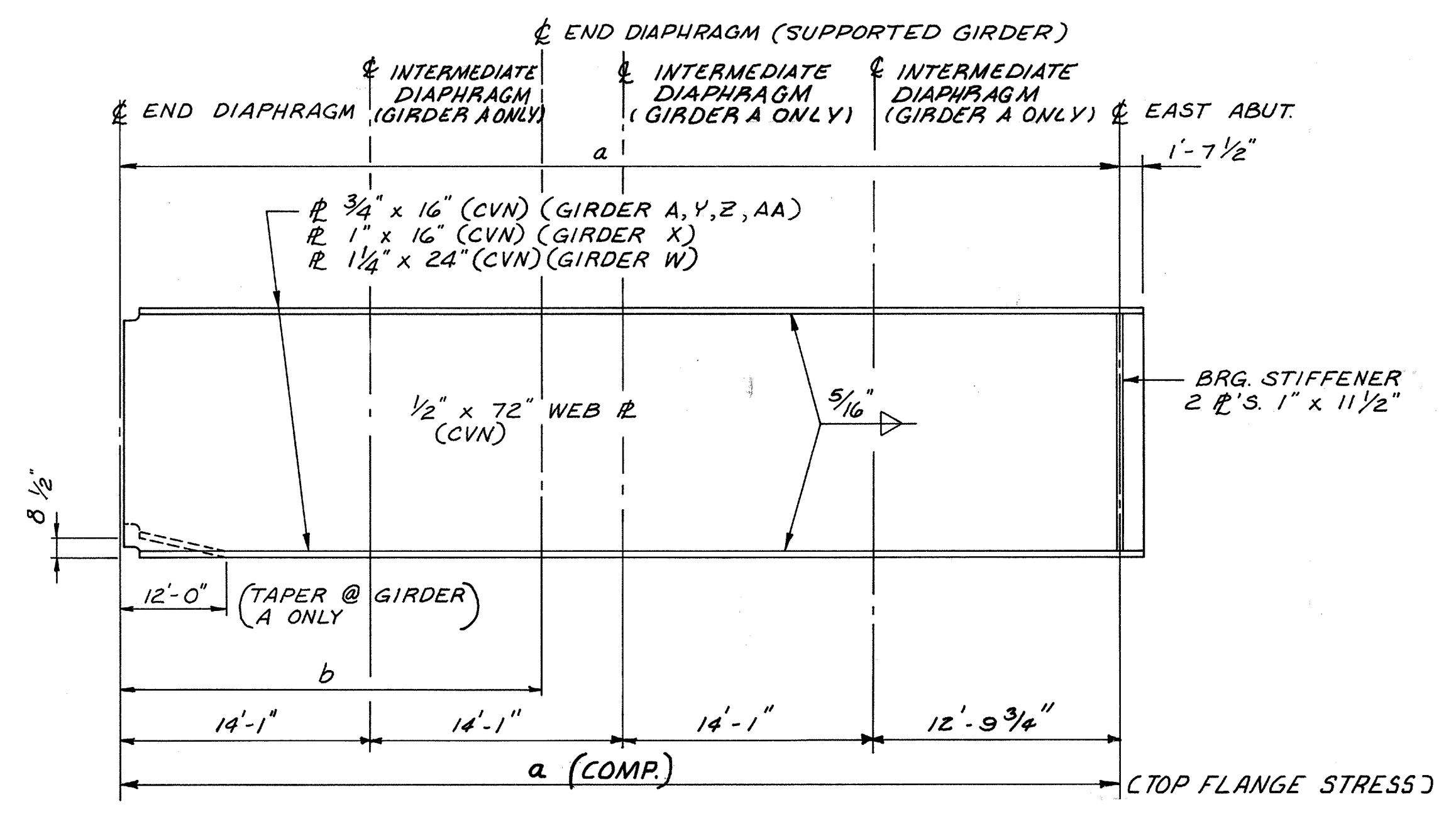
SUM-76-11.57



GIRDER BB ELEVATION



GIRDER U,V ELEVATION



GIRDER A,W,X,Y,Z, & AA ELEVATION

⊕ GIRDER BB IS A FRACTURE CRITICAL MEMBER AND SHALL CONFORM TO THE AASHTO PUBLICATION: GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS, DATED 1978 INCLUDING ALL INTERIM SPECIFICATIONS. HOWEVER, THE INSPECTION REQUIREMENTS OF THE PLAN WHICH PERTAIN TO THE ENGINEER OR HIS REPRESENTATIVE SHALL NOT BE BINDING ON THE ENGINEER OR HIS REPRESENTATIVE. THE CHARPY V NOTCH REQUIREMENTS IN TABLE 7.1 FOR ZONE 2, A36 STEEL SHALL BE 25 FT-LBS @ 40°F.

GIRDER	DIMENSION						
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
A	55'-0 3/4"						
U	20'-0"	88'-11 1/8"	83'-6 1/2"	36'-9 3/8"	17'-6"	77'-5 3/8"	78'-0"
V	19'-6"	58'-11"	80'-6 1/4"	34'-7 7/8"		62'-5 1/4"	77'-0"
W	108'-6 1/8"	35'-8 1/4"					
X	76'-6 3/4"	25'-10 1/16"					
Y	54'-4 3/8"	24'-8 1/16"					
Z	33'-5 5/8"	20'-11 3/4"					
AA	16'-2 3/4"						

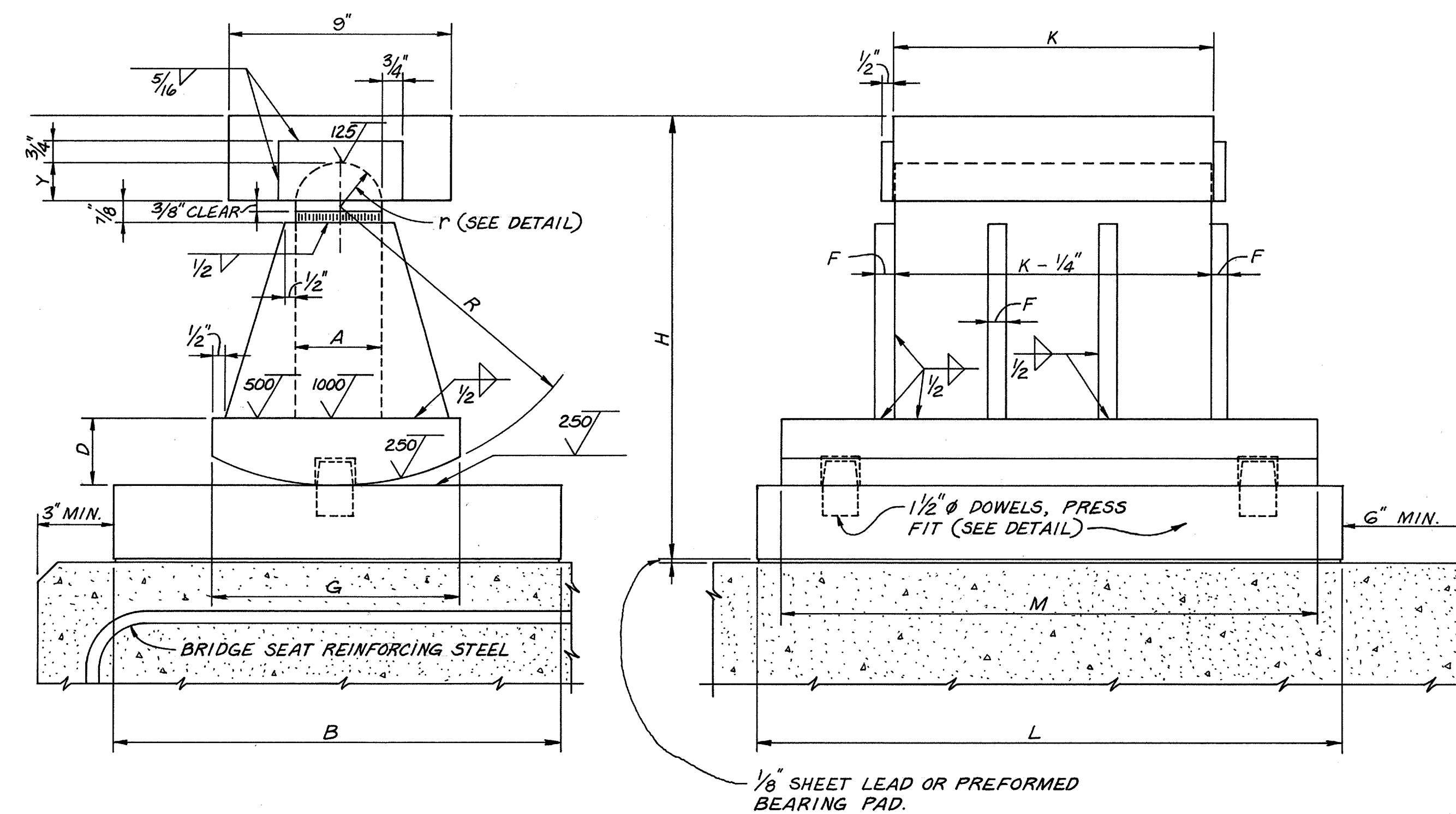
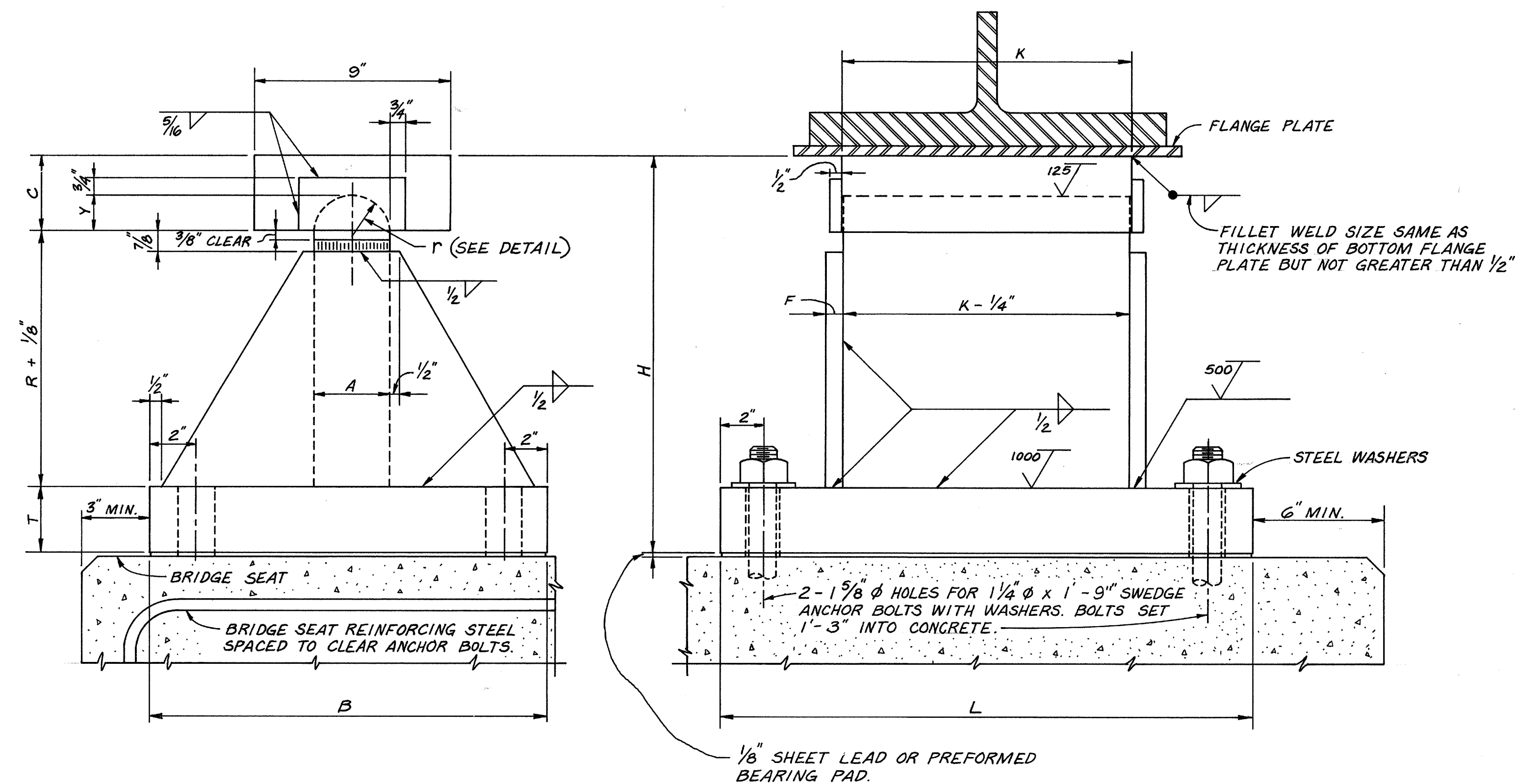
NOTES

① FOR NOTES, SEE SHEET 70/120

McCOY ASSOCIATES INC. 75/120
CONSULTING ENGINEERS
AKRON, OHIO

GIRDER ELEVATIONS
A,U THRU Z, AA, BB
BRIDGE NO. SUM.76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	GT	T.E.N.	JBH	3-31-89	



STRUCTURAL STEEL BOLSTER

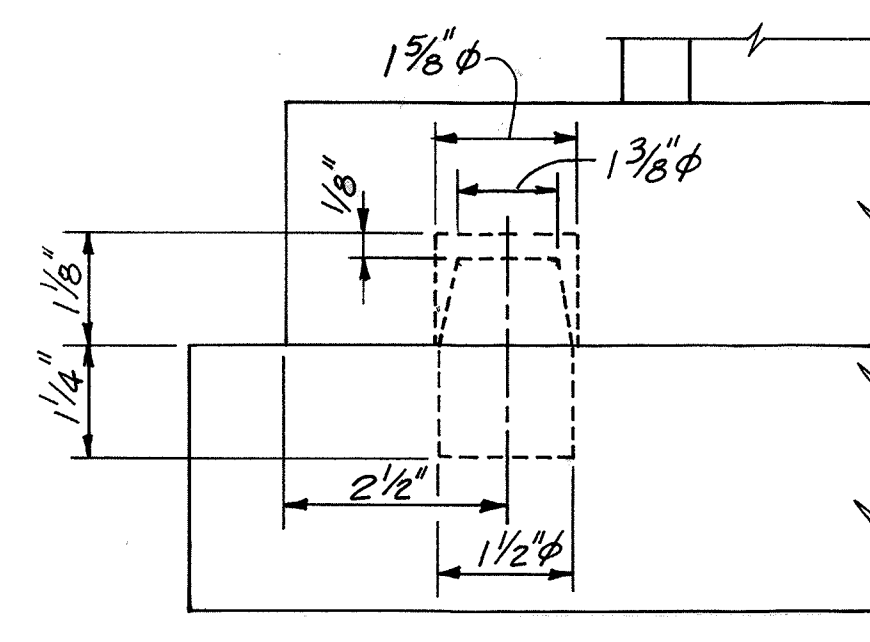
SEE TABLE BELOW FOR ADDITIONAL DIMENSIONS

STRUCTURAL STEEL ROCKER

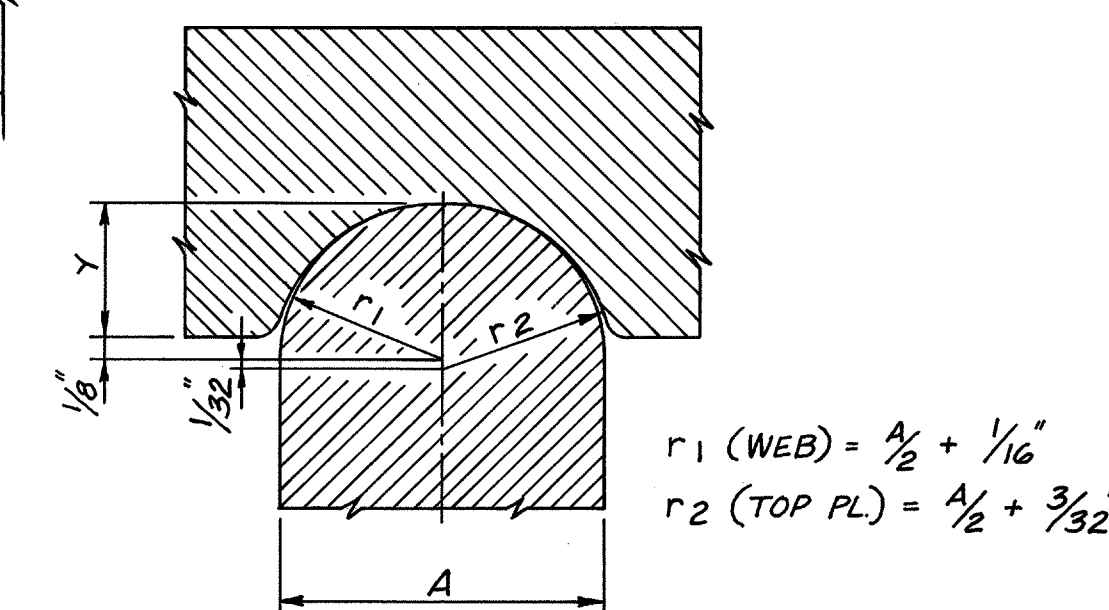
SEE TABLE BELOW FOR ADDITIONAL DIMENSIONS

NOTES

- EXISTING BEARINGS TO BE REUSED AND/OR MOVED ARE AS FOLLOWS:
 - A. PIER 1 BEARINGS FROM GIRDERS G, H, J AND K AT PIER 5 SHALL BE MOVED TO GIRDERS G, H, J AND K AT PIER 1. BEARINGS FROM GIRDERS G AND K AT THE WEST ABUTMENT SHALL BE MOVED TO GIRDERS F AND L AT PIER 1.
 - B. PIER 2 BEARINGS ON ALL GIRDERS AT PIER 2 SHALL REMAIN.
 - C. PIER 3 BEARINGS FROM GIRDERS G, J AND K AT PIER 1 SHALL BE MOVED TO GIRDERS F, J AND L AT PIER 3. BEARINGS AT GIRDERS G, H AND K AT PIER 3 SHALL REMAIN.
 - D. PIER 4 BEARINGS FROM GIRDERS G AND K AT THE EAST ABUTMENT SHALL BE MOVED TO GIRDERS F AND L AT PIER 4. BEARINGS AT GIRDERS G, H, J AND K AT PIER 4 SHALL REMAIN.
- FOR ROCKERS R-75, R-125, R-150, R-175, R-200, R-225, R-250, R-275 AND R-300 SEE STANDARD DRAWING RB-1-55.



DOWEL DETAIL



TOP BEARING DETAIL

		DIMENSIONS (INCHES)												WEIGHT EACH (LB.)		MAXIMUM LOAD (LB.)	
		A	B	C	D	F	G	H	K	L	M	R	T	Y	BOLSTER		ROCKER
B-325	R-325	4	21	4	3/2	3/4	13	20 3/8	15	29	26	13	3 1/4	1 15/16	1060	1240	325,000
B-350	R-350	4	22	4	3/2	3/4	14	21 1/8	15	30	27	13 1/2	3 1/2	1 15/16	1170	1385	350,000
	R-350A	4	23	4	4	1	14	26 1/4	18	30	22	18	4	1 15/16			350,000
B-375	R-375	4	23	4 1/2	3 3/4	7/8	14	22 3/8	16	31	28	14	3 3/4	1 15/16	1350	1585	375,000
	R-375A	6	23	4 1/2	3 3/4	7/8	14	22 3/8	16	31	28	14	3 3/4	2 15/16			375,000
	R-400	4 1/2	24	4 1/2	4	7/8	14 1/2	23 3/8	17	33	30	14 1/2	4	2 3/16	1575	1865	400,000
	R-425	4 1/2	25	4 1/2	4	7/8	15	23 3/8	17	34	31	15	4	2 3/16		1960	425,000
	R-450	4 1/2	25	4 1/2	4 1/4	1	15 1/2	24 1/8	18	35	32	15 1/2	4	2 3/16		2100	450,000
	R-650	5	27	5 1/2	4 1/2	1	19	29 9/8	22	38	36	19 1/2	4 1/2	2 7/16			650,000

GIRDER	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	A-A	B-B
WEST ABUT.	—	R-175	R-175	R-175	R-175	R-325	R-325	R-325	R-325	R-325	R-325	R-175	R-175	R-175	R-175	—	—	—	—	—	—	—	—	—	—
PIER 1	—	R-375	R-400	R-375	R-375	E-3	E-1	E-1	E-1	E-1	E-3	R-350	R-350	R-350	R-325	—	—	—	—	—	—	—	—	—	
PIER 2	—	R-175	R-200	R-200	R-200	E-3	E-2	E-2	E-2	E-2	E-3	R-225	R-225	R-225	R-225	—	—	—	—	—	—	—	—	—	
PIER 3	—	B-325	B-375	B-375	B-375	F-2	F-1	F-1	F-2	F-1	F-2	B-350	B-350	B-350	B-325	—	—	—	—	—	—	—	—	—	
PIER 4	—	R-250	R-300	R-300	R-300	E-3	E-1	E-1	E-1	E-1	E-3	R-375	R-375	R-375	R-450	—	—	—	—	—	—	—	—	—	
PIER 5	—	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-400	R-425	—	—	—	—	—	—	—	R-425	
PIER 6	—	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375A	R-375	R-375	R-325	R-325	R-325	—	—	—	R-650	
EAST ABUT.	R-75	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-350A	R-150	R-150	R-150	R-150	R-150	R-125	R-125	R-125	R-75	R-275

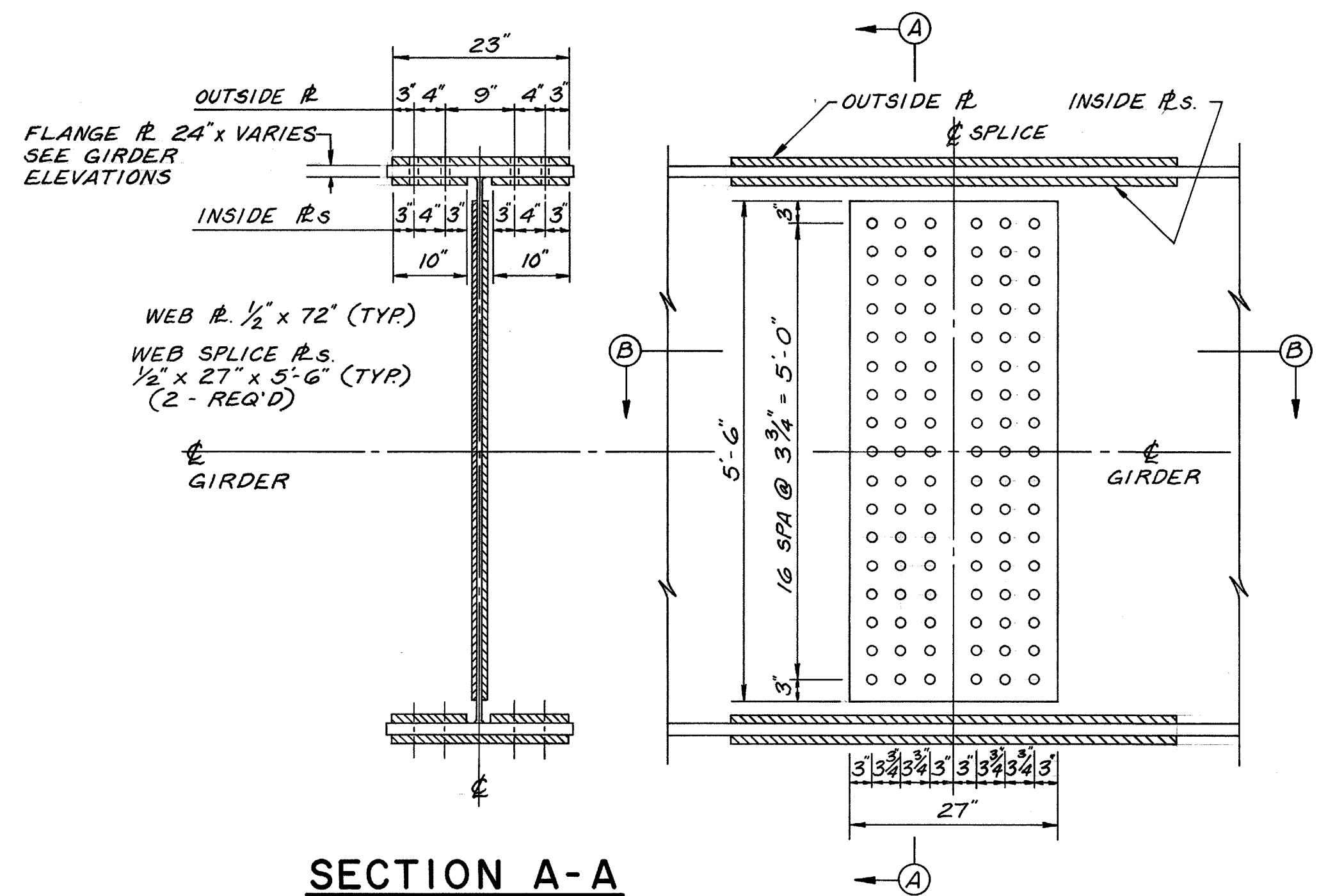
NOTE: FOR EXISTING BEARING E-1, E-2, E-3, F-1, AND F-2 SEE NOTE 1 THIS SHEET.

BEARING LOCATION TABLE * INDICATES A588 HIGH STRENGTH STEEL.

McCOY ASSOCIATES INC. 76/120
CONSULTING ENGINEERS
AKRON, OHIO

BEARING DETAILS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

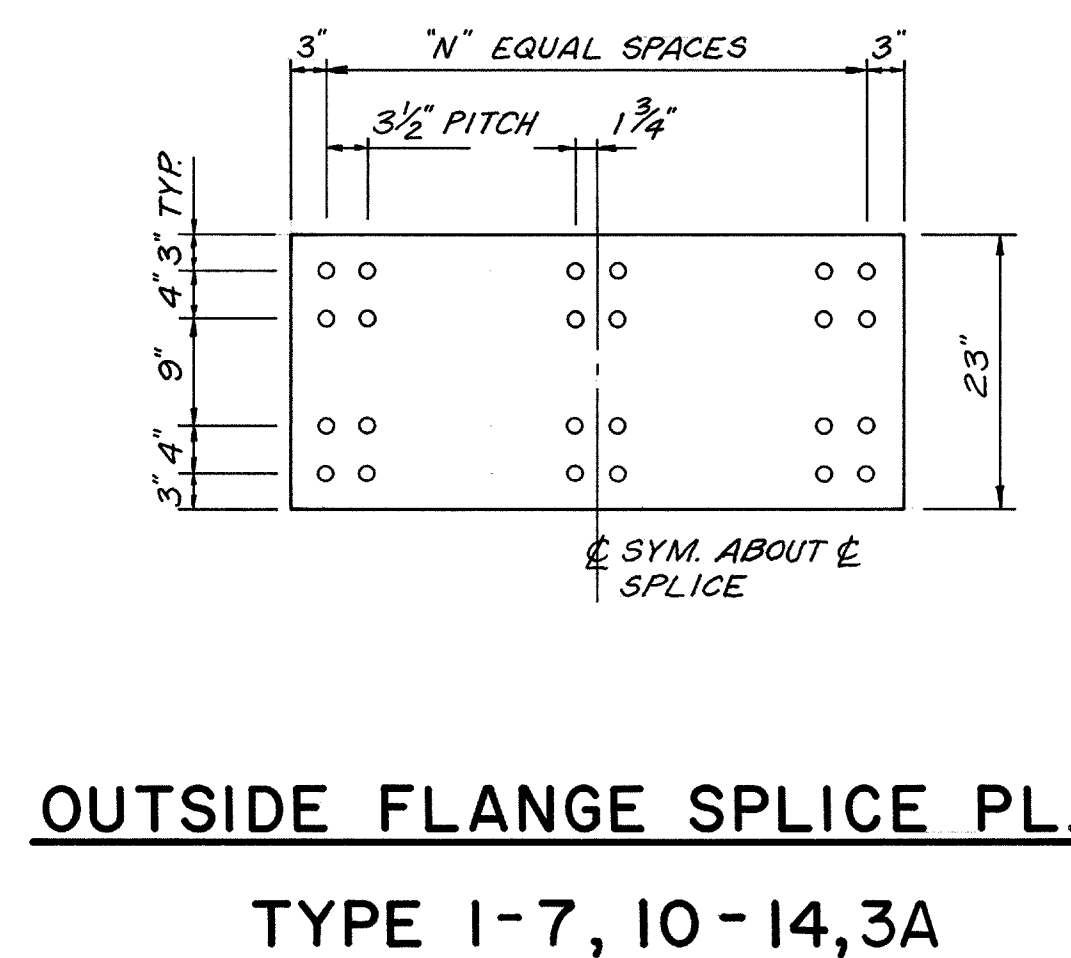
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	CT		M.A.M.	JBH	3-30-89	



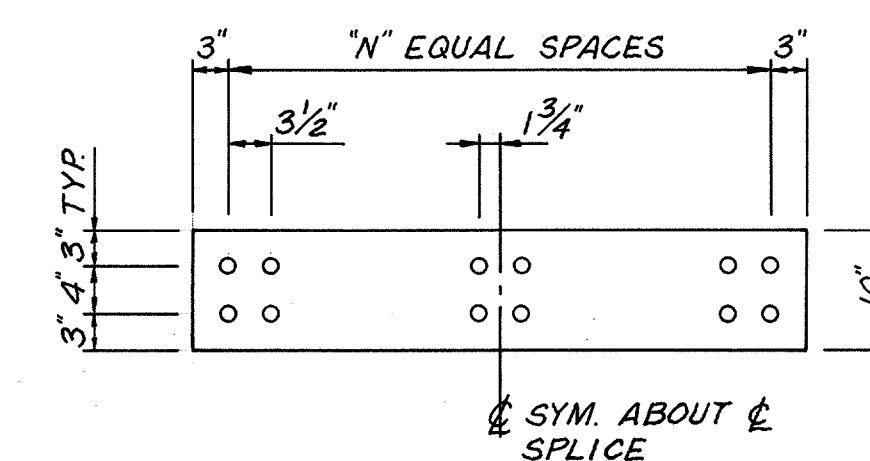
SECTION A-A

GIRDER SPLICE DETAIL A

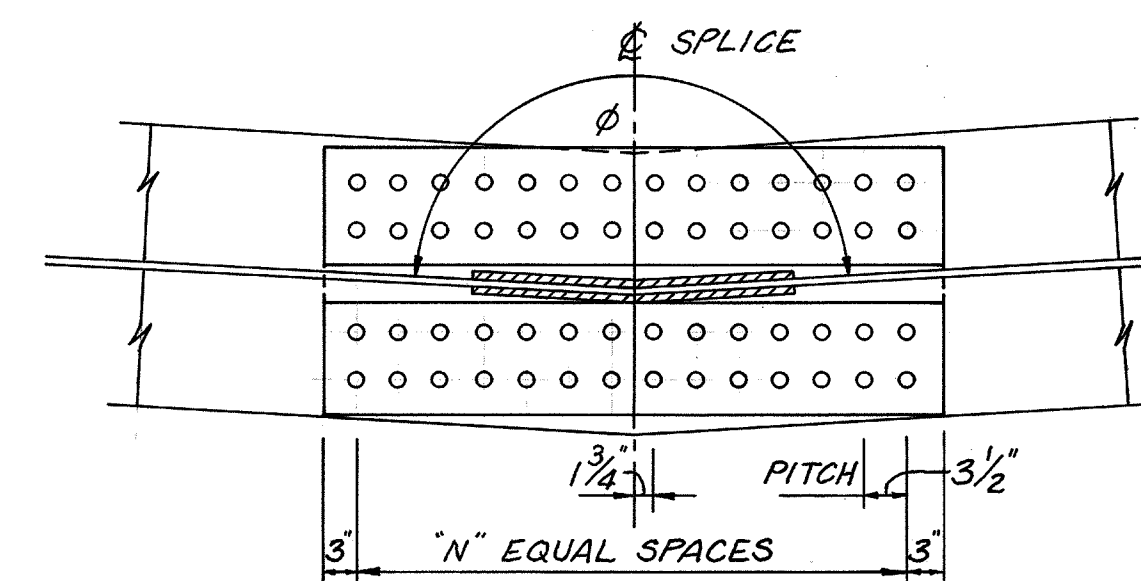
TYPE 1-7,3A
WEB SPLICE (TYP.)



OUTSIDE FLANGE SPLICE PL.
TYPE 1-7, 10-14,3A



INSIDE FLANGE SPLICE PLS.
TYPE 1-7, 10-14,3A



SECTION B-B

GIRDER SPLICE DATA								
TYPE	FLANGE SPLICE				WEB SPLICE		REMARKS	
	FLANGE PLATES		φ	"N"	FLANGE BOLTS (1" DIA.)	WEB PLATE (2 REQ'D)		WEB BOLTS (1" DIA.)
OUTSIDE (2-REQ'D)	INSIDE (4-REQ'D)							
1	3/4" x 23" x 3'-8 1/2"	3/4" x 10" x 3'-8 1/2"	178°-02'-34" @ BEND NO. 2 @ GIRDERS C, D, E 176°-59'-58" @ BEND NO. 1 @ GIRDERS M, N, P, R 177°-44'-20" @ BEND NO. 2 @ GIRDERS M, N, P, R	11	48 TOP 48 BOT.	1/2" x 27" x 5'-6"	102	@ BENDS-SEE SECTION B-B
2	3/4" x 23" x 3'-8 1/2"	3/4" x 10" x 3'-8 1/2"	---	11	48 TOP 48 BOT.	" " "	"	
3	7/8" x 23" x 4'-3 1/2"	7/8" x 10" x 4'-3 1/2"	176°-35'-04" @ BEND NO. 1 @ GIRDERS C, D, E	13	56 TOP 56 BOT.	" " "	"	@ BEND-SEE SECTION B-B
4	3/4" x 23" x 3'-1 1/2"	3/4" x 10" x 3'-1 1/2"	---	9	40 TOP 40 BOT.	" " "	"	
5	1/2" x 23" x 2'-6 1/2"	1/2" x 10" x 2'-6 1/2"	178°-02'-34" @ BEND NO. 2 @ GIRDER B	7	32 TOP 32 BOT.	" " "	"	@ BEND-SEE SECTION B-B
6	1/2" x 23" x 2'-6 1/2"	1/2" x 10" x 2'-6 1/2"	---	7	32 TOP 32 BOT.	" " "	"	
7	5/8" x 23" x 3'-1 1/2"	5/8" x 10" x 3'-1 1/2"	---	9	40 TOP 40 BOT.	" " "	"	
3A	1" x 23" x 4'-10 1/2"	1" x 10" x 4'-10 1/2"	176°-35'-04" @ BEND NO. 1 @ GIRDER B	15	64 TOP 64 BOT.	" " "	"	@ BEND-SEE SECTION B-B

NOTES:

- HIGH STRENGTH BOLTS SHALL BE 1" φ A325 UNLESS NOTED OTHERWISE.
- ALL SPLICE MATERIAL EXCEPT FILL PLATES SHALL BE "CVN" AND SHALL MEET MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS
- BOLTS SHALL BE PLACED WITH THEIR HEADS ON THE OUTSIDE FACE OF EXTERIOR BEAMS AND ON THE BOTTOM OF THE BOTTOM FLANGES AND THE TOP OF TOP FLANGES

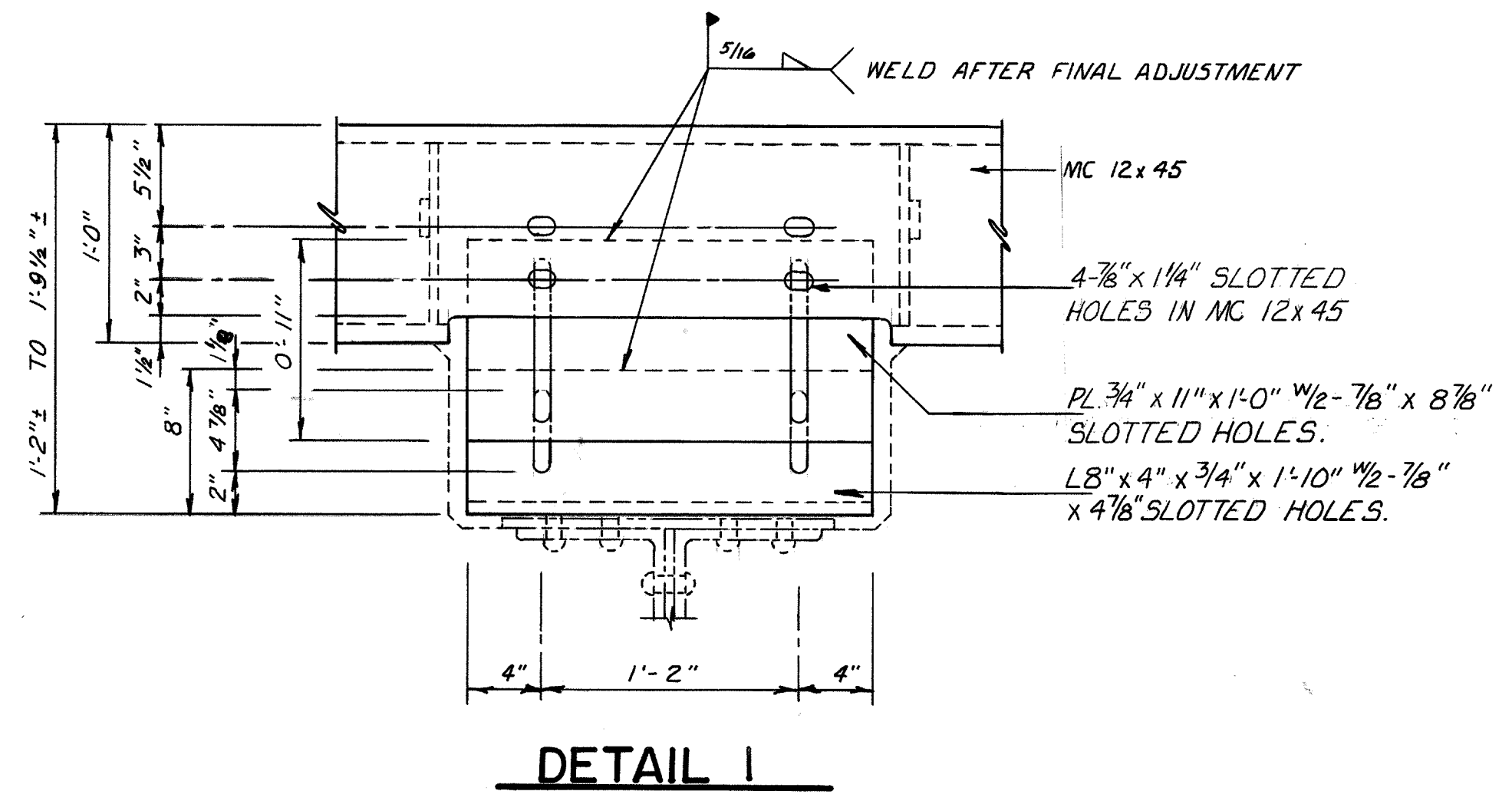
McCOY ASSOCIATES INC. 77/120
CONSULTING ENGINEERS
AKRON, OHIO

SPLICE DETAILS I

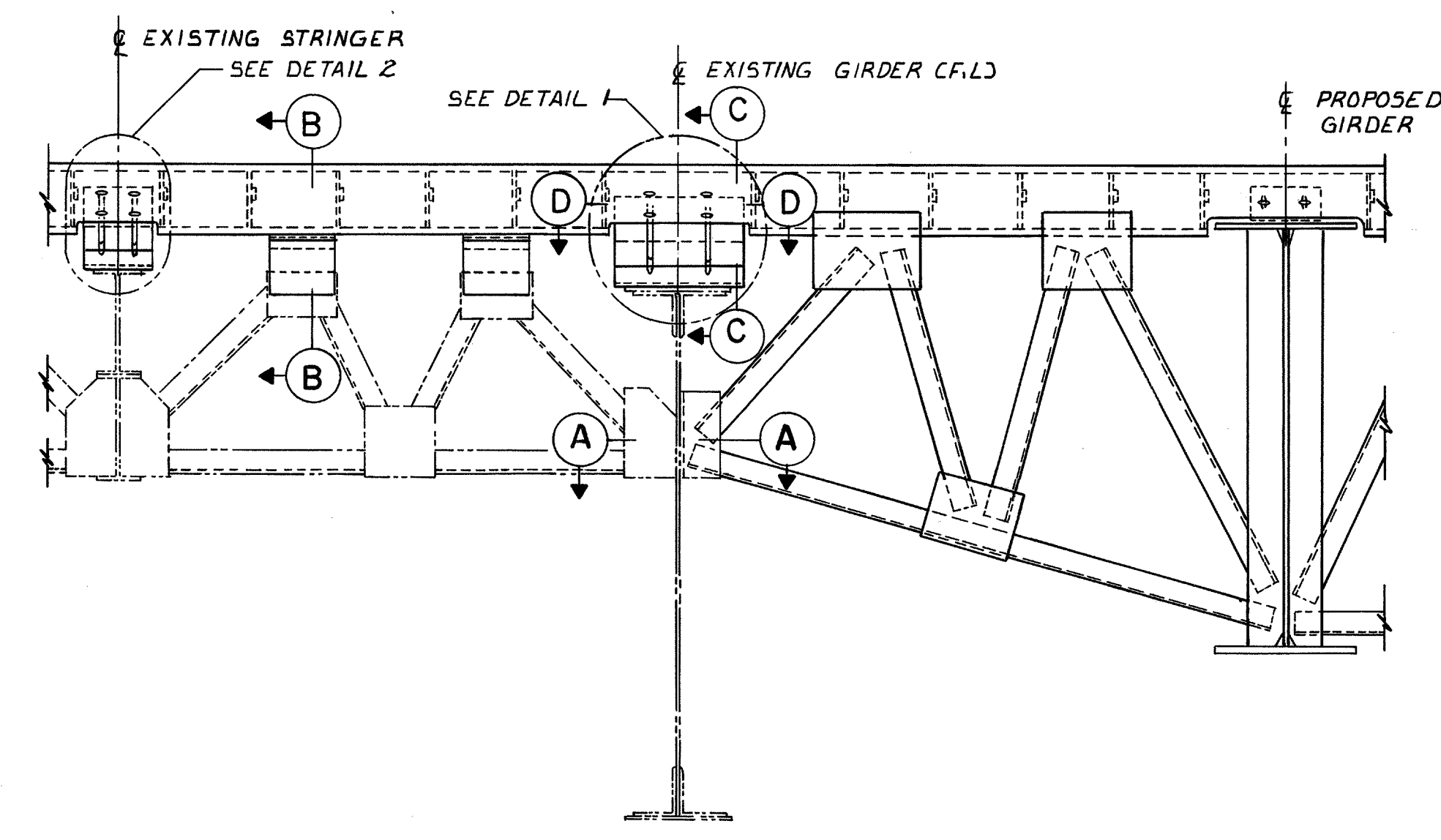
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RGS	RGS	GT	JBH	JBH	3-30-89	

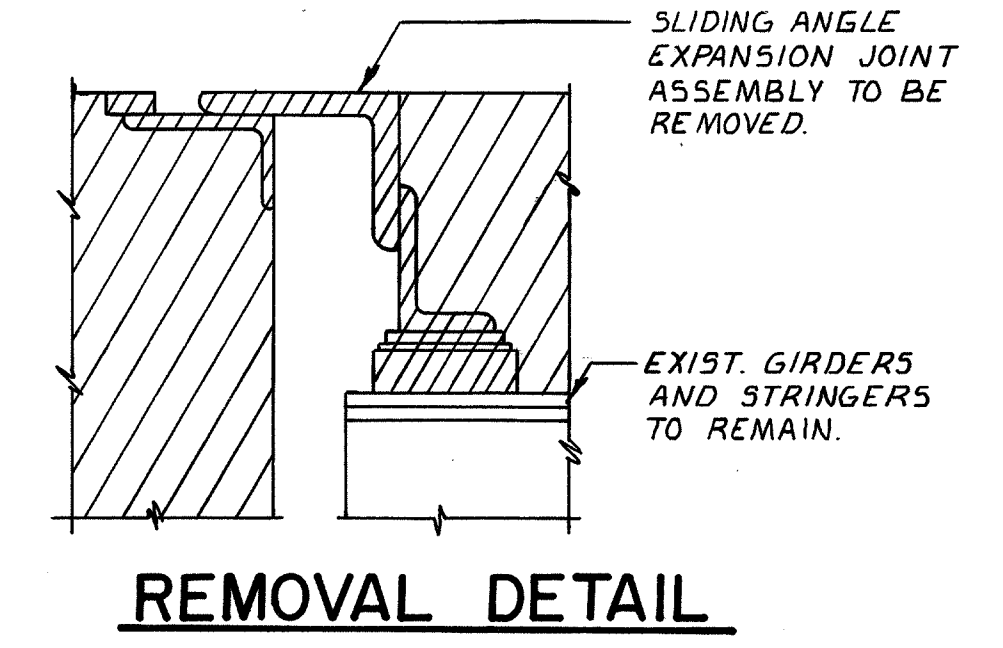
SUMMIT COUNTY
SUM 76-11.57



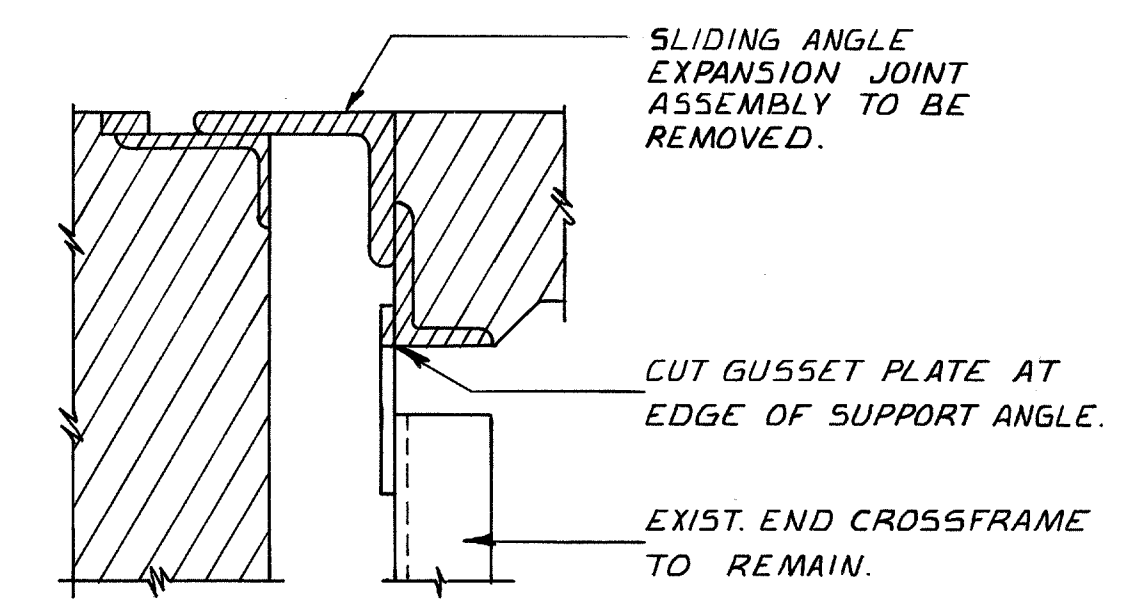
DETAIL 1



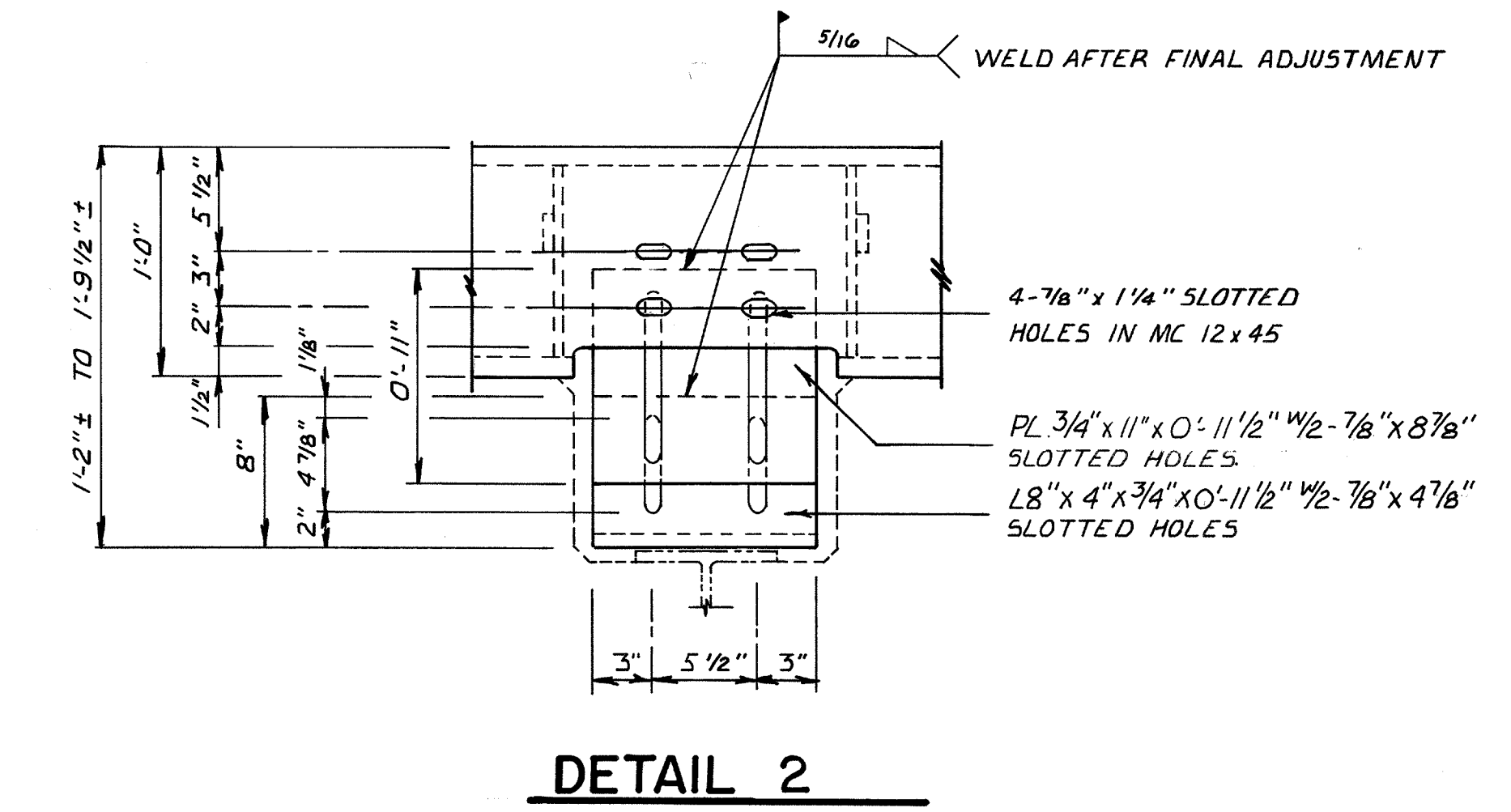
PARTIAL END CROSSFRAME DETAIL



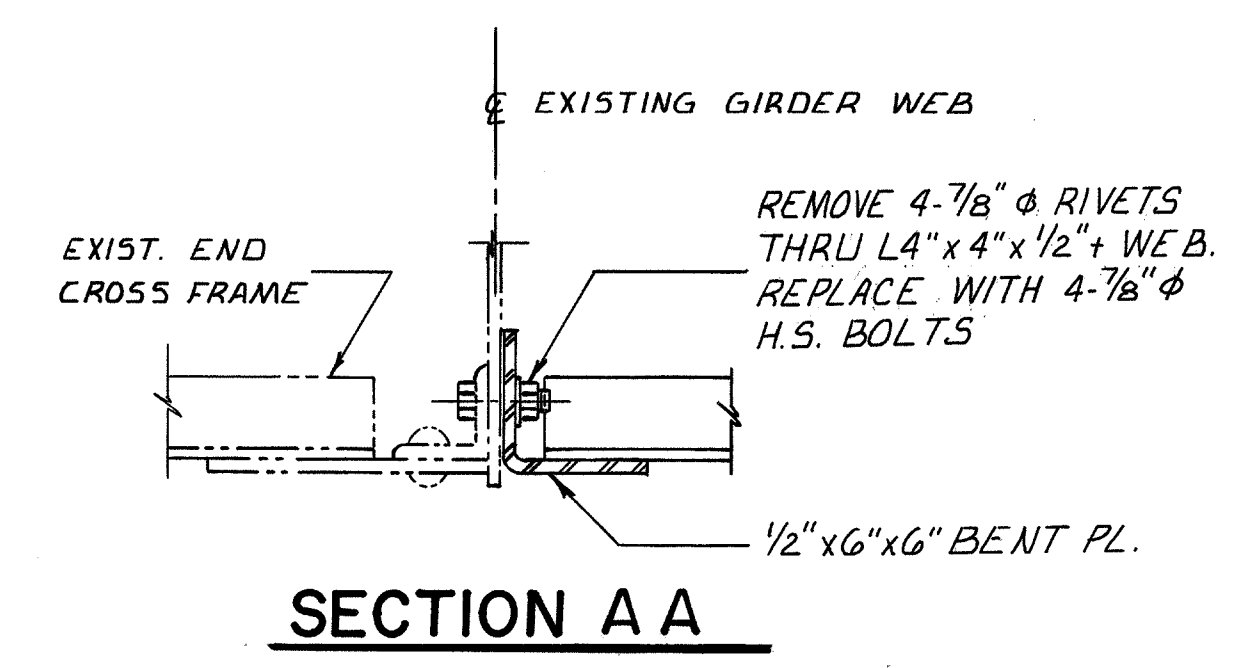
REMOVAL DETAIL



REMOVAL DETAIL



DETAIL 2

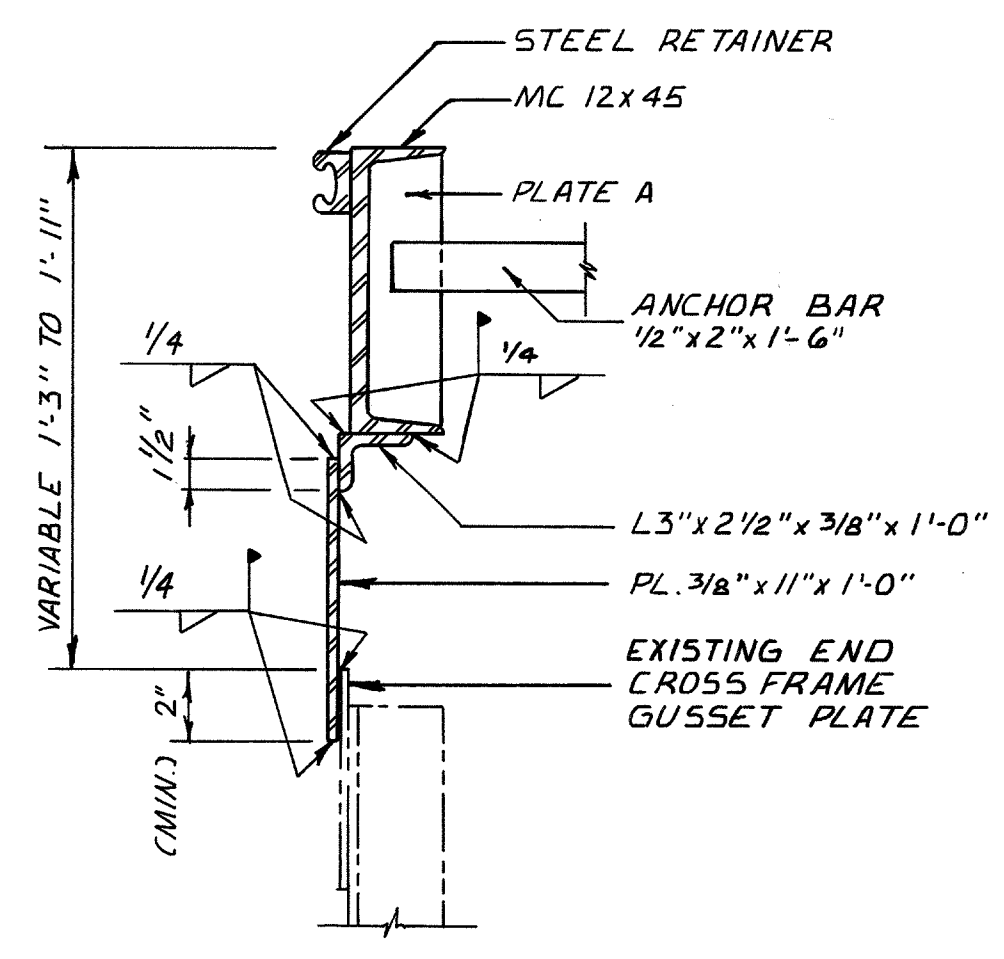


SECTION A A

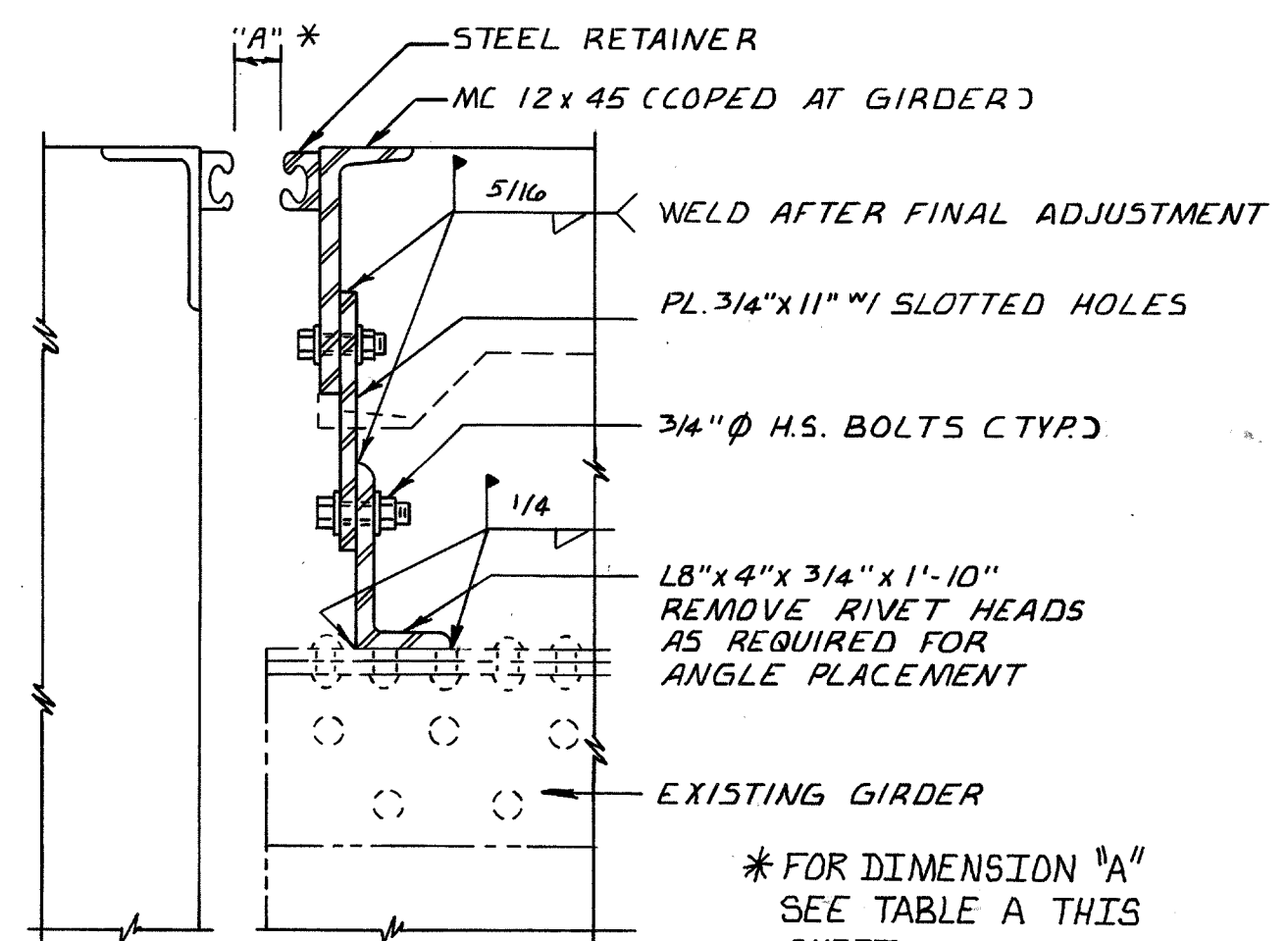
TEMPERATURE °F	JOINT OPENING (IN.) (DIM. "A")
90	1 1/8"
80	1 3/8"
70	1 5/8"
60	1 13/16"
50	2 1/8"
40	2 3/8"
30	2 5/8"

NOTES

- FOR ADDITIONAL DETAILS SEE STANDARD DRAWING EXU-4-B7.
- FOR FRAMING PLANS, SEE SHEETS 62/120 THRU 67/120.
- FOR SLAB PLANS, SEE SHEETS 91/120 THRU 96/120.
- ALL BOLTS SHALL BE HIGH STRENGTH A-325.

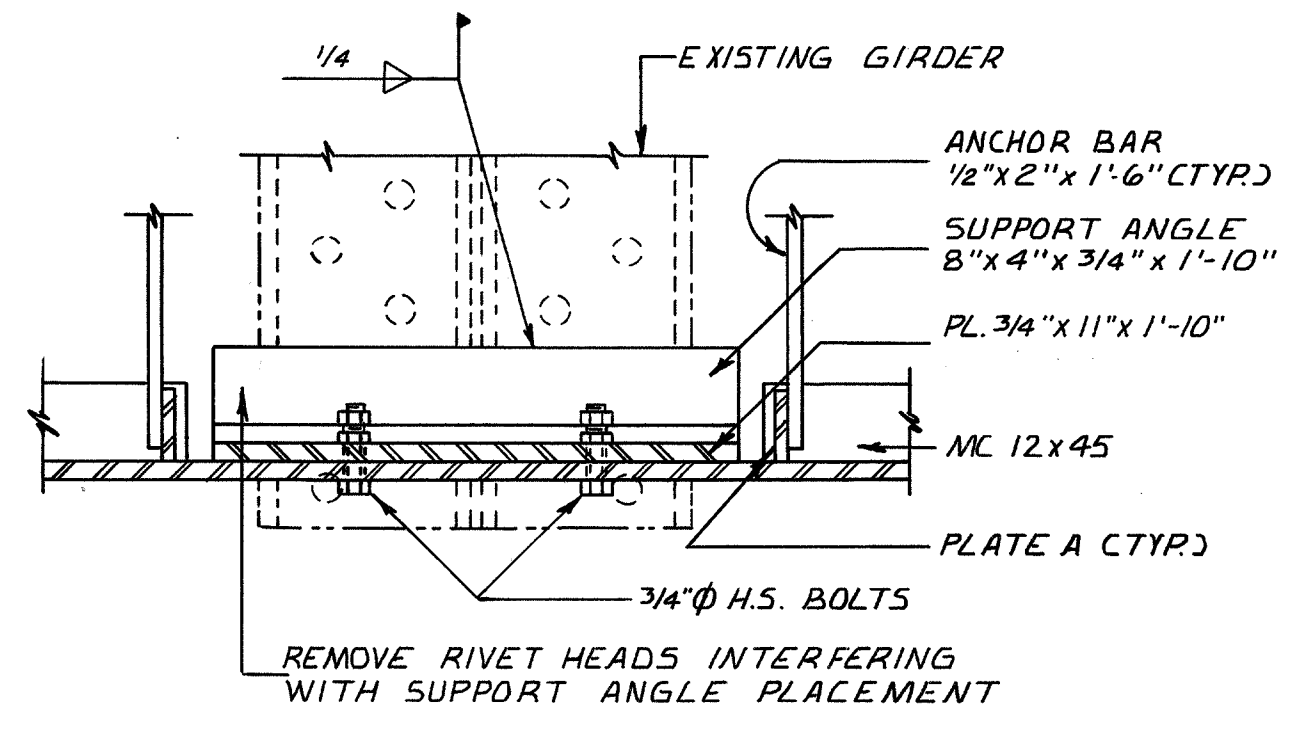


SECTION B B



SECTION C C

* FOR DIMENSION "A" SEE TABLE A THIS SHEET.



SECTION D D

McCOY ASSOCIATES, INC. 79/120
CONSULTING ENGINEERS
AKRON, OHIO

EXPANSION JOINT DETAILS AT WEST ABUTMENT
BRIDGE NO. SUM 76 - 1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	T.E.N.	J.W.D.	J.B.H.	J.B.H.	3-31-89	

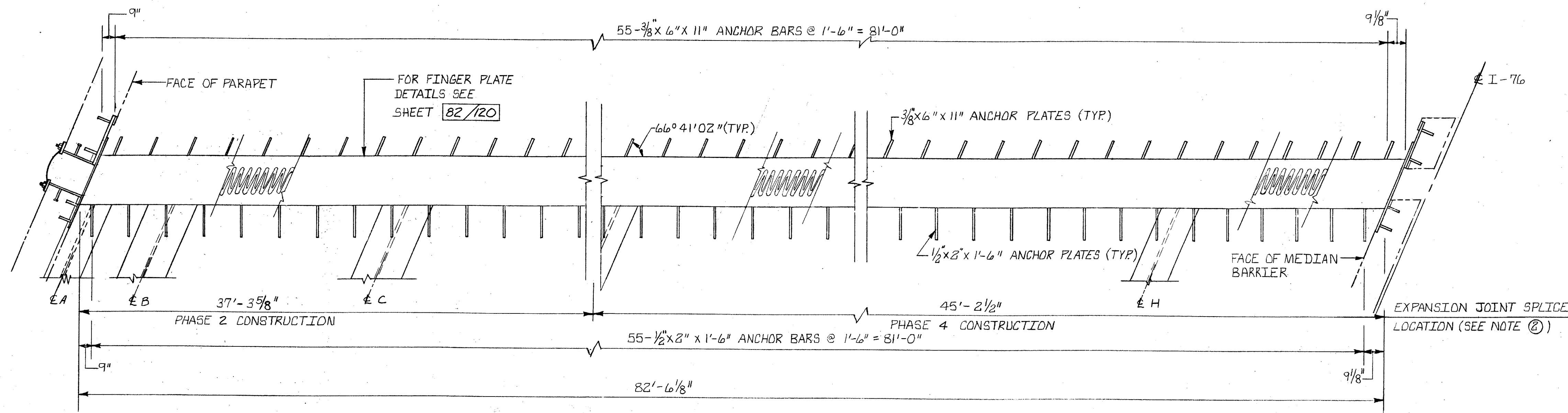
FHWA REGION	STATE	PROJECT
5	OHIO	

102A
1214

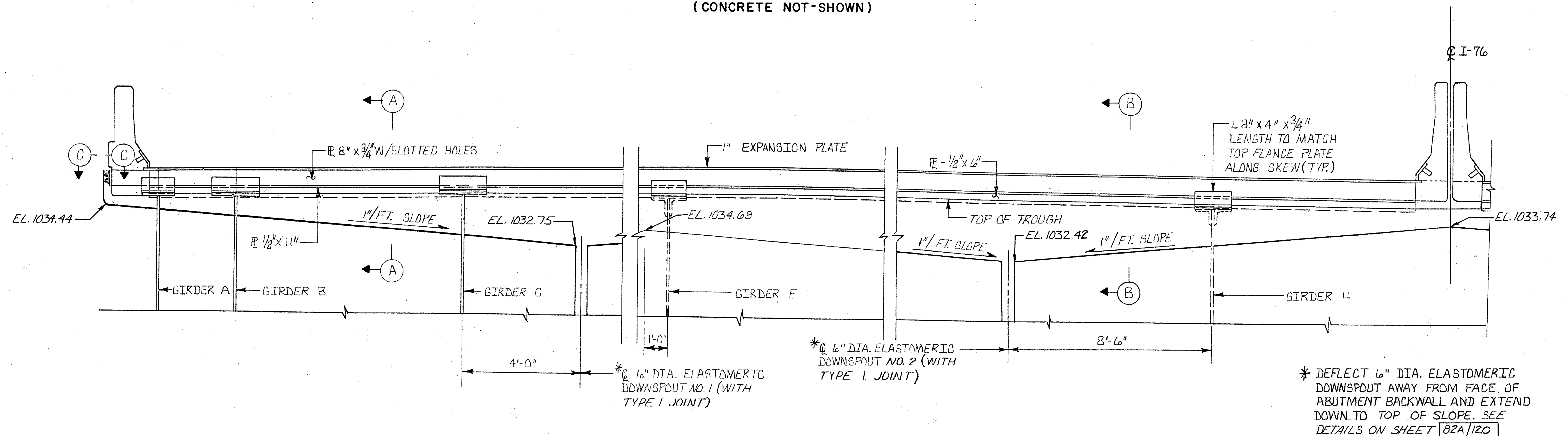
SUMMIT COUNTY
SUM 76-11.57

NOTES

- ① FOR SECTION A-A, B-B AND TROUGH DETAILS SEE SHEETS 82/120 AND 82A/120
- ② THE EXPANSION JOINT SPLICE SHALL BE FIELD WELDED AND THE ELASTOMERIC TROUGH SHALL BE SPLICED WITH A TYPE 2 JOINT. SEE SHEET 82/120 FOR ELASTOMERIC SPLICE DETAILS.
- ③ FOR CURB PLATE DETAILS SEE STANDARD DRAWING SD-1-89 SHEET 2 OF 4.
- ④ FOR END CROSSFRAME DETAILS SEE SHEET 82B/120
- ⑤ CONCRETE SURFACE ADJACENT TO FINGER PLATES SHALL BE FINISHED FLUSH WITH OR SLIGHTLY ABOVE THE STEEL JOINT SURFACE



EXPANSION JOINT PLAN - EAST ABUTMENT
(WEST BOUND)
(CONCRETE NOT-SHOWN)



TRANSVERSE SECTION AT EAST ABUTMENT
(WEST BOUND)

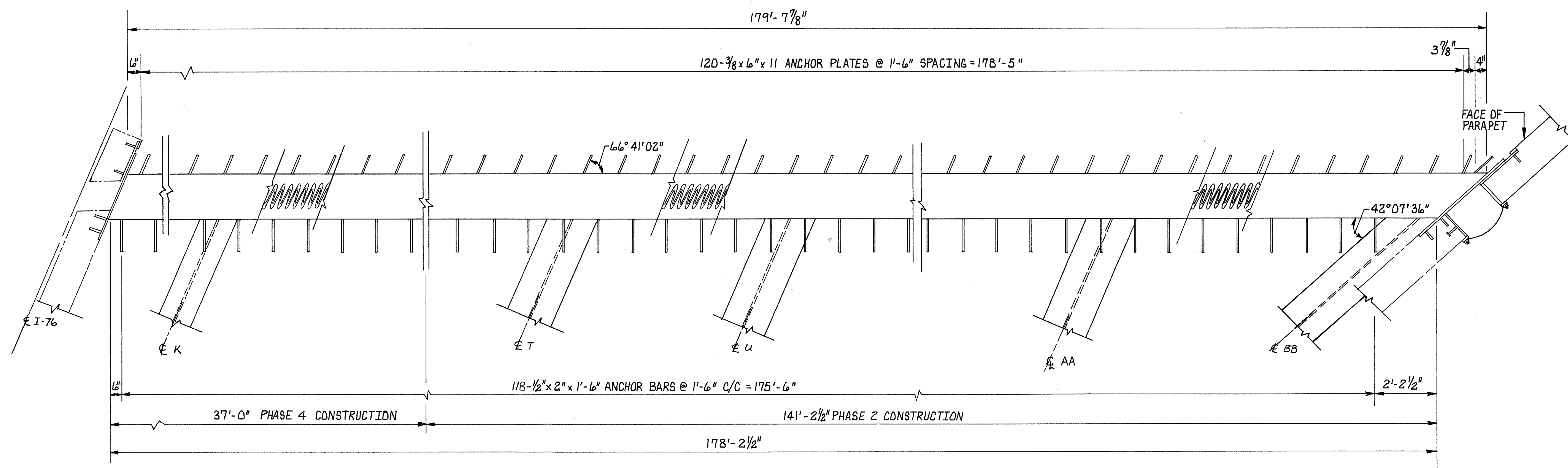
McCOY ASSOCIATES, INC. 80/120 CONSULTING ENGINEERS AKRON, OHIO					
EXPANSION JOINT DETAILS AT EAST ABUTMENT					
BRIDGE NO. SUM.76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JGC	PNA		JBH	JBH	7-19-90

FHWA REGION	STATE	PROJECT	
5	OHIO		

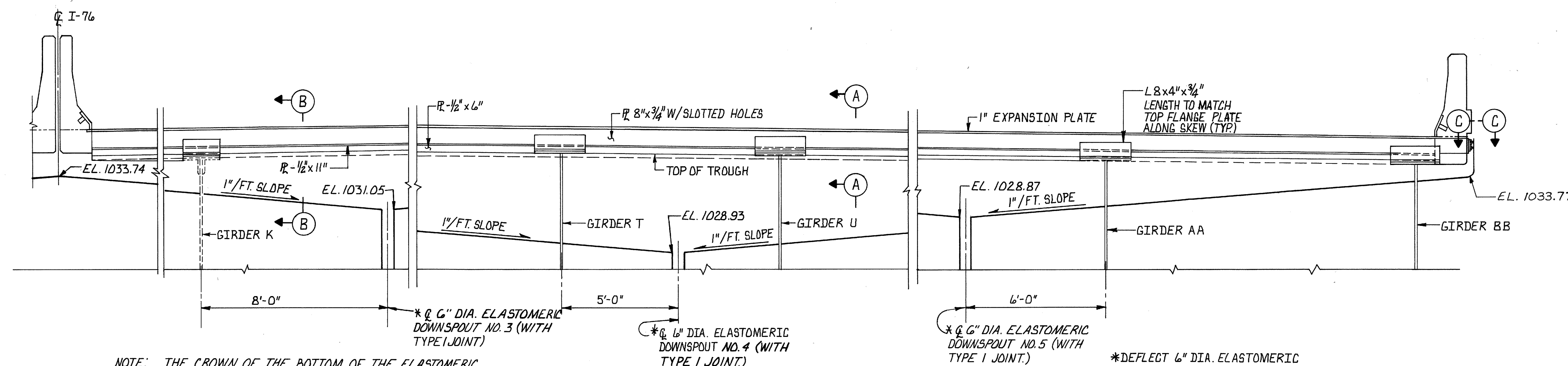
1025
1214

SUMMIT COUNTY
SUM. 76-11.57

NOTES
1. FOR NOTES SEE SHEET 80/120



EXPANSION JOINT PLAN-EAST ABUTMENT
(EAST BOUND)
(CONCRETE NOT SHOWN)



NOTE: THE CROWN OF THE BOTTOM OF THE ELASTOMERIC TROUGH IS LOCATED 4'-0" SOUTH OF GIRDER M BETWEEN DOWNSPOUTS NO. 3 AND NO. 4 AT AN ELEVATION OF 1032.95 AND 3'-6" SOUTH OF GIRDER W BETWEEN DOWNSPOUTS NO. 4 AND NO. 5 AT AN ELEVATION OF 1031.17

TRANSVERSE SECTION AT EAST ABUTMENT
(EAST BOUND)

*DEFLECT 6" DIA. ELASTOMERIC DOWN SPOUT AWAY FROM FACE OF ABUTMENT BACKWALL AND EXTEND DOWN TO TOP OF SLOPE. SEE DETAILS ON SHEET 82A/120.

McCoy Associates, Inc. 81 / 120
CONSULTING ENGINEERS
AKRON, OHIO

EXPANSION JOINT DETAILS AT EAST ABUTMENT

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

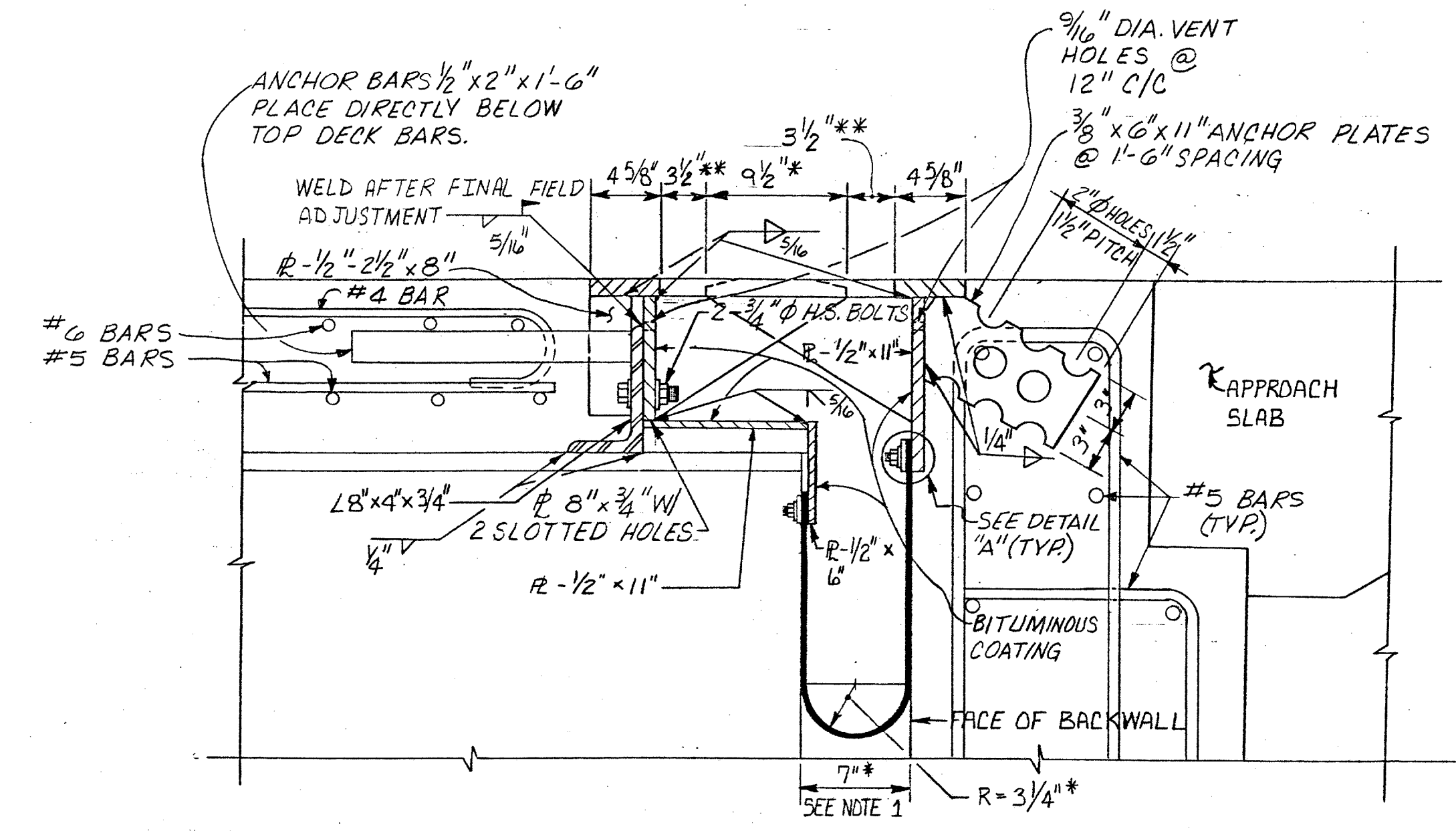
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGC	PNA		JBH	JBH	7-19-90	

SUMMIT COUNTY
SUM 76-11.57

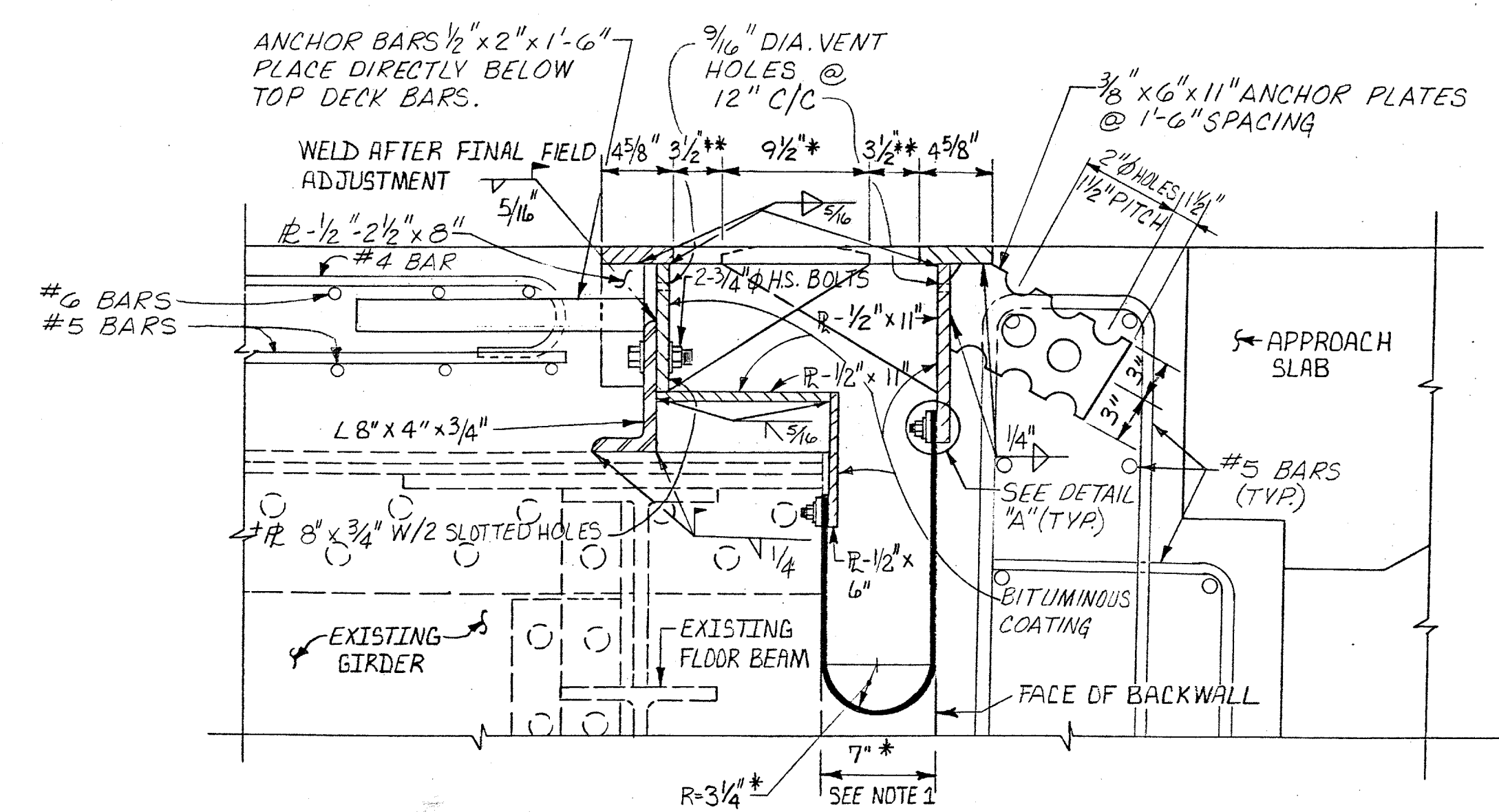
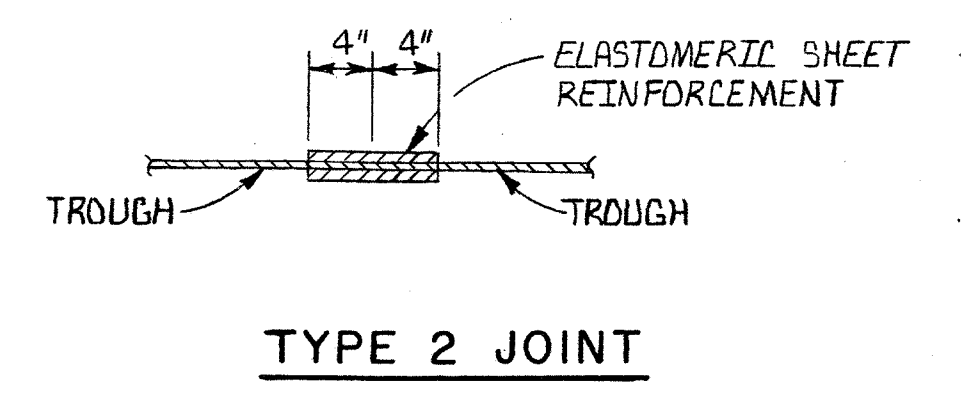
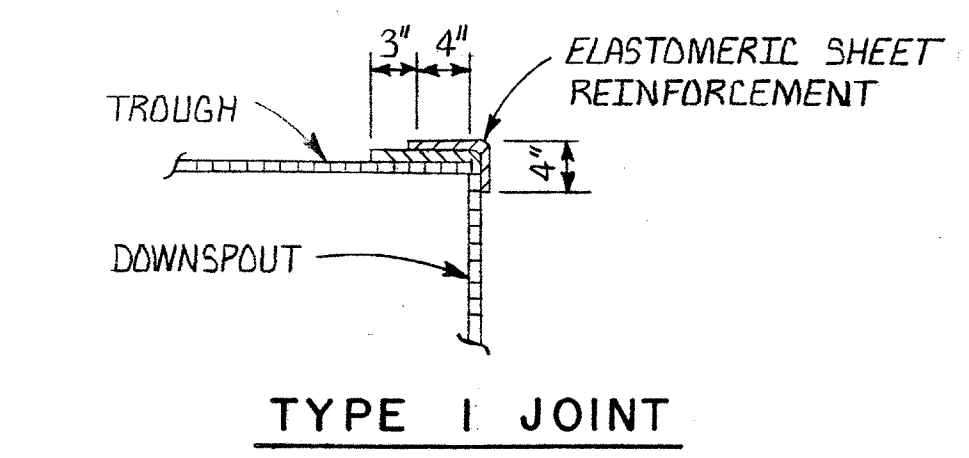
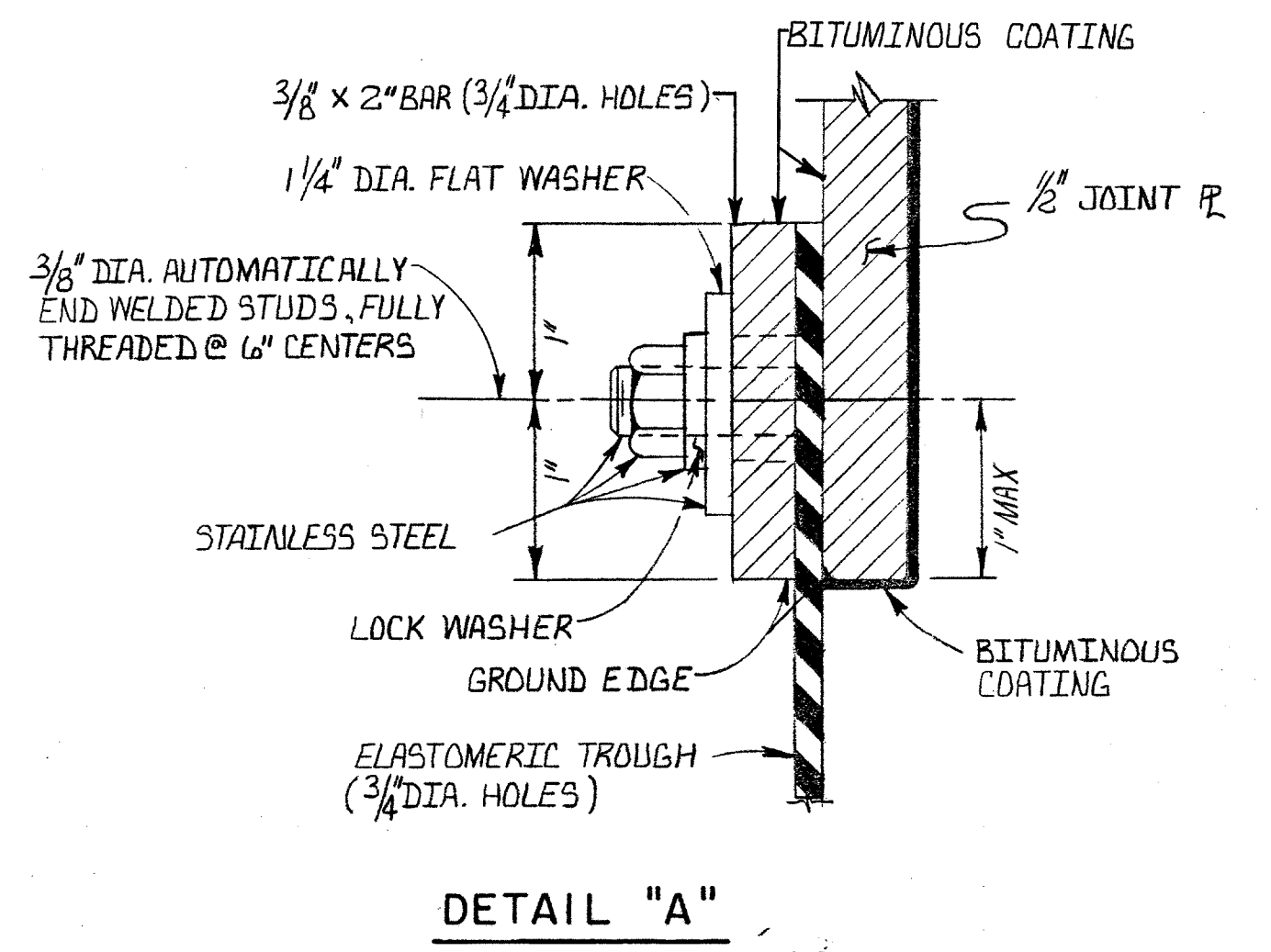
NOTES

- THE EXISTING GIRDERS SHALL BE TRIMMED TO PROVIDE 7" OF CLEARANCE FROM THE EAST ABUTMENT BACKWALL @ 60°F. AND SHALL BE PAID UNDER ITEM 513 TRIMMING OF BEAM END.
- FOR ADDITIONAL DETAILS AND NOTES SEE SHEETS **80/120**, **81/120** AND **82A/120**

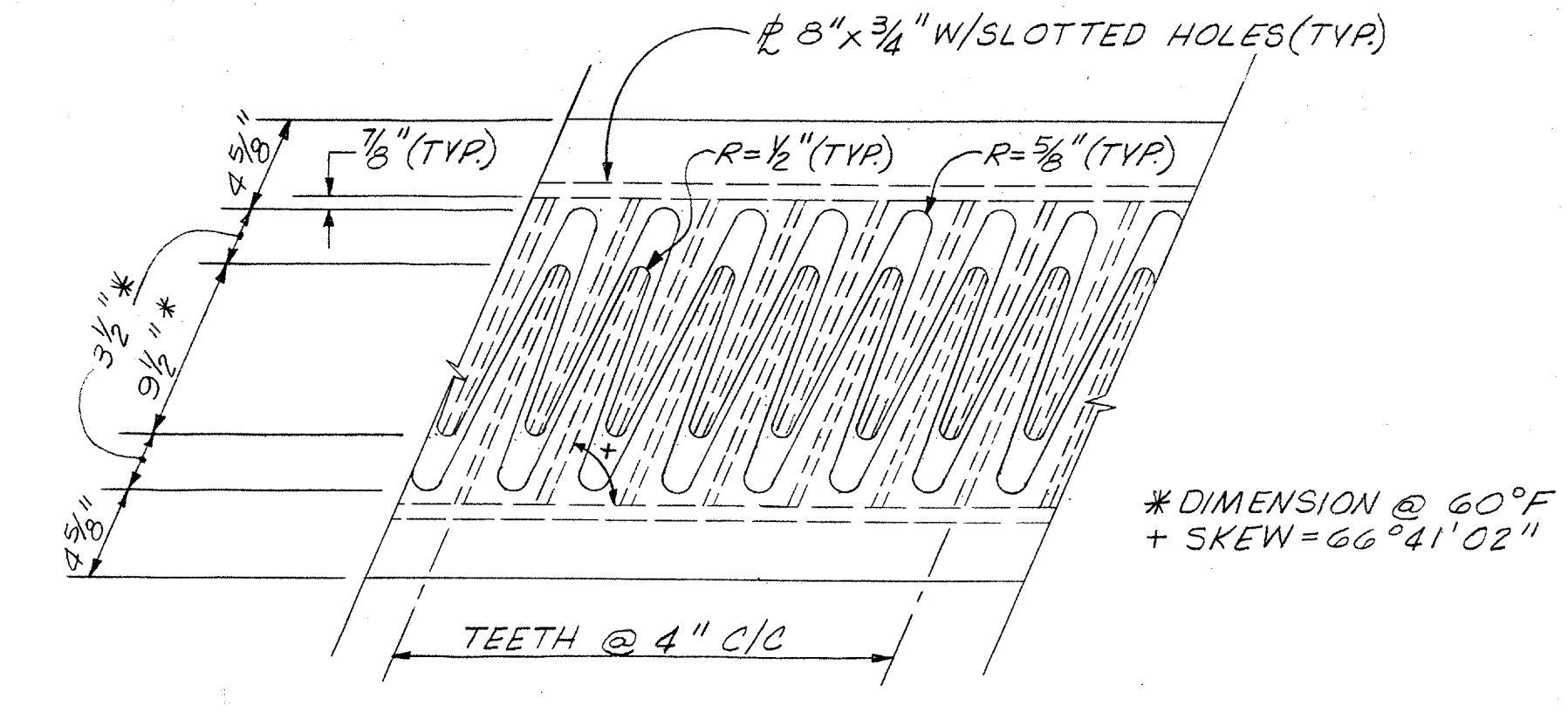
EXPANSION JOINT OPENING	
TEMPERATURE (°F)	OPENING (INCHES)
90	2 1/4
80	2 11/16
70	3 1/16
60	3 1/2
50	3 15/16
40	4 5/16
30	4 3/4



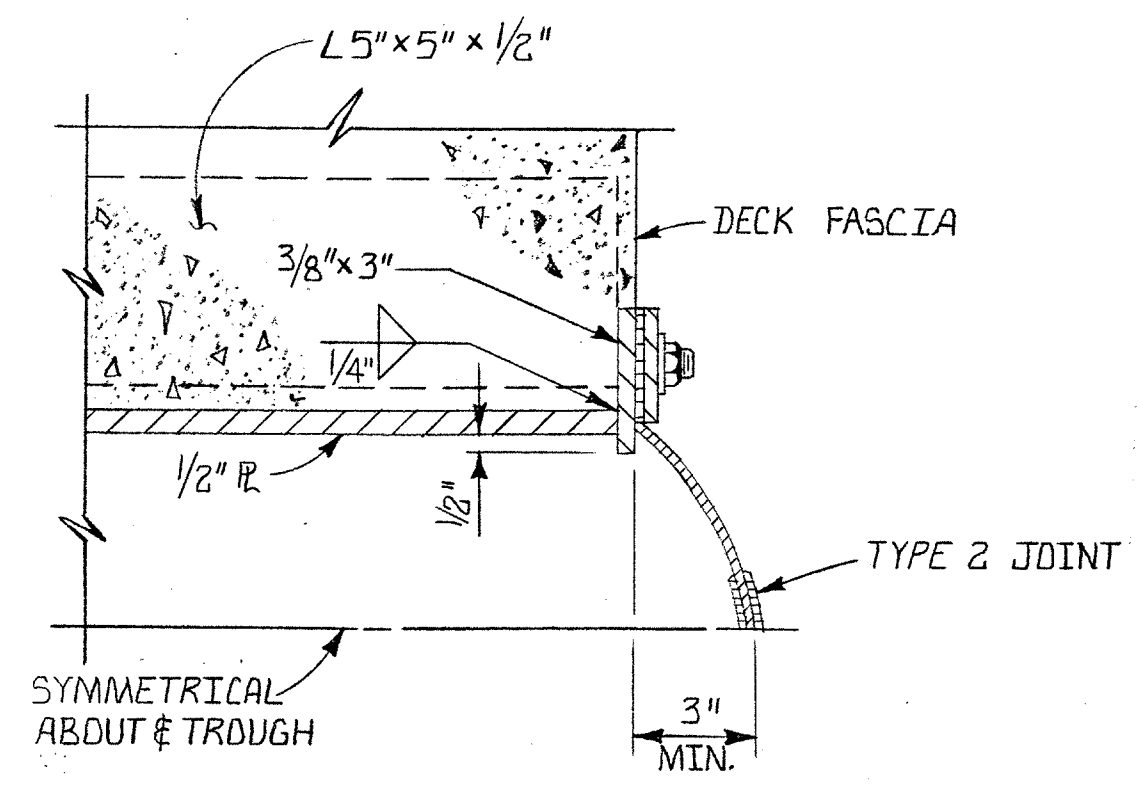
* DIMENSION @ 60°F
 ** JOINT OPENING DIMENSION @ 60°F. FOR OTHER DIMENSIONS SEE TABLE A. THIS SHEET.



* DIMENSION @ 60°F
 ** JOINT OPENING DIMENSION @ 60°F. FOR OTHER DIMENSIONS SEE TABLE A. THIS SHEET.
 + AN ADDITIONAL PLATE SHALL BE INCLUDED BETWEEN THE L 8" x 4" x 3/4" AND THE P 8" x 3/4" AT GIRDERS F & L. FOR DETAILS SEE END CROSSFRAME DETAIL ON SHEET **82B/120**.



* DIMENSION @ 60°F
 + SKEW = 66°41'02"



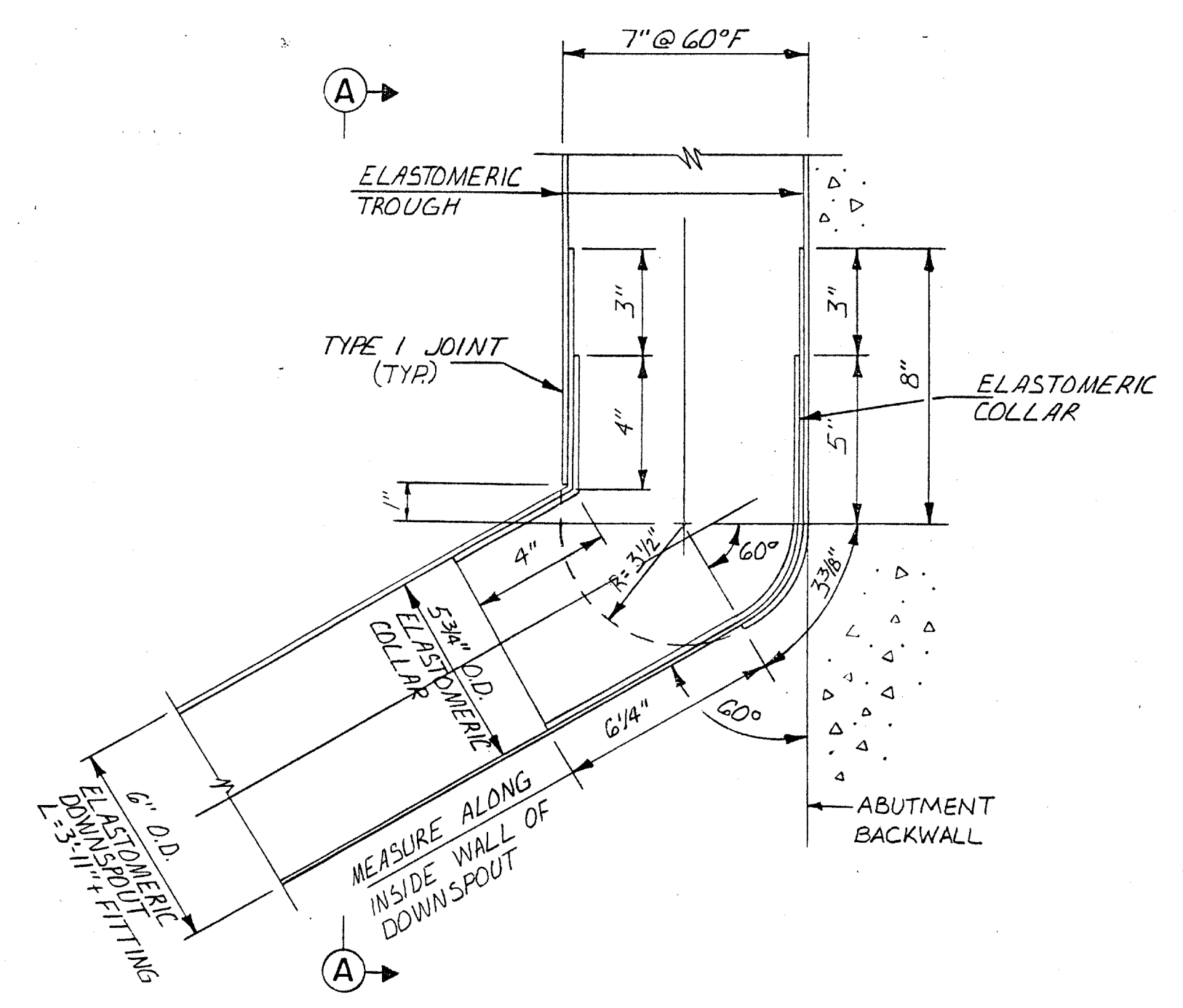
McCOY ASSOCIATES, INC. 82/120
 CONSULTING ENGINEERS
 AKRON, OHIO

EXPANSION JOINT DETAIL AT EAST ABUTMENT
 BRIDGE NO. SUM. 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

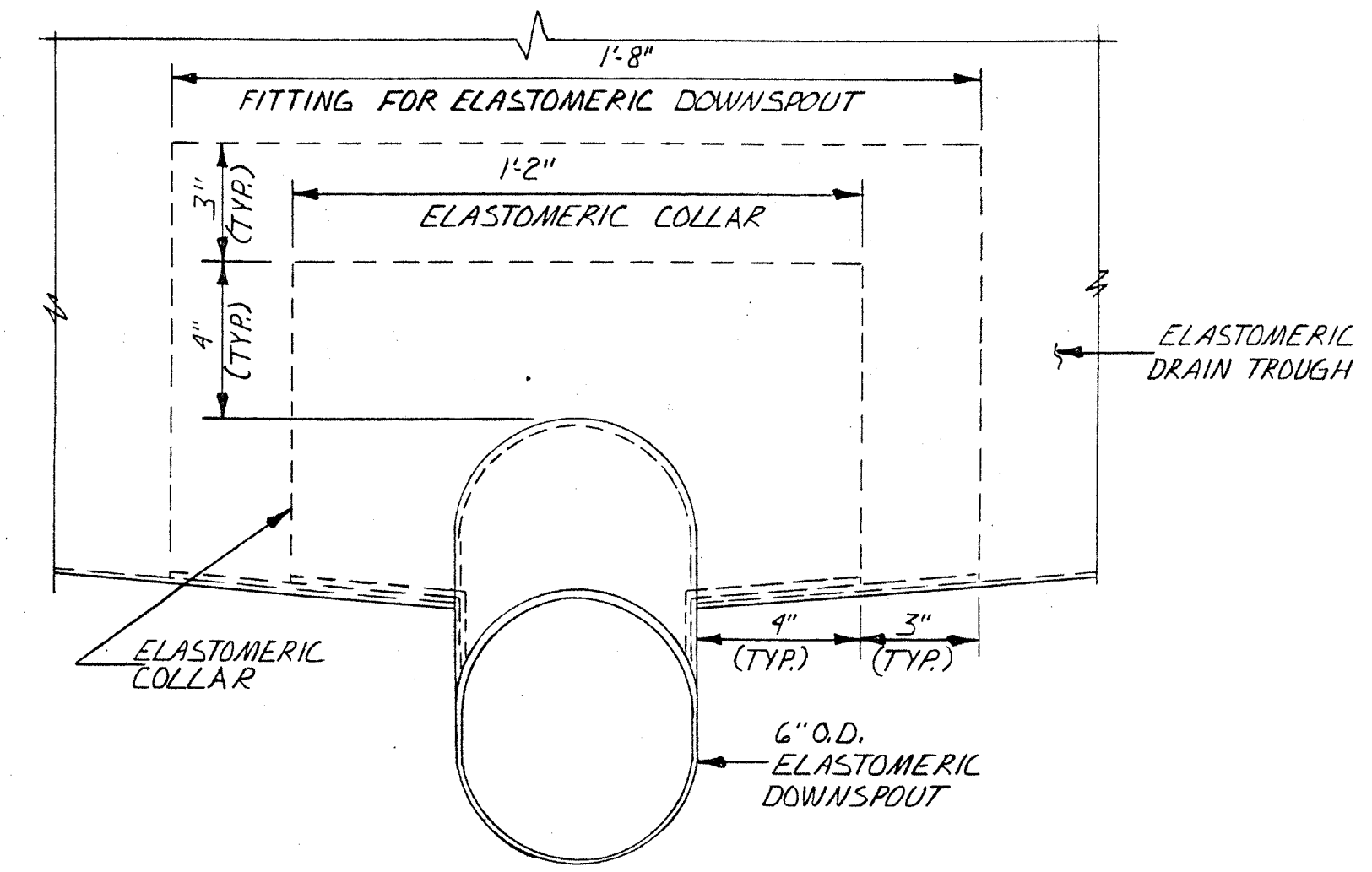
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGC	PNA		JBH	JBH	7-19-90	

NOTES

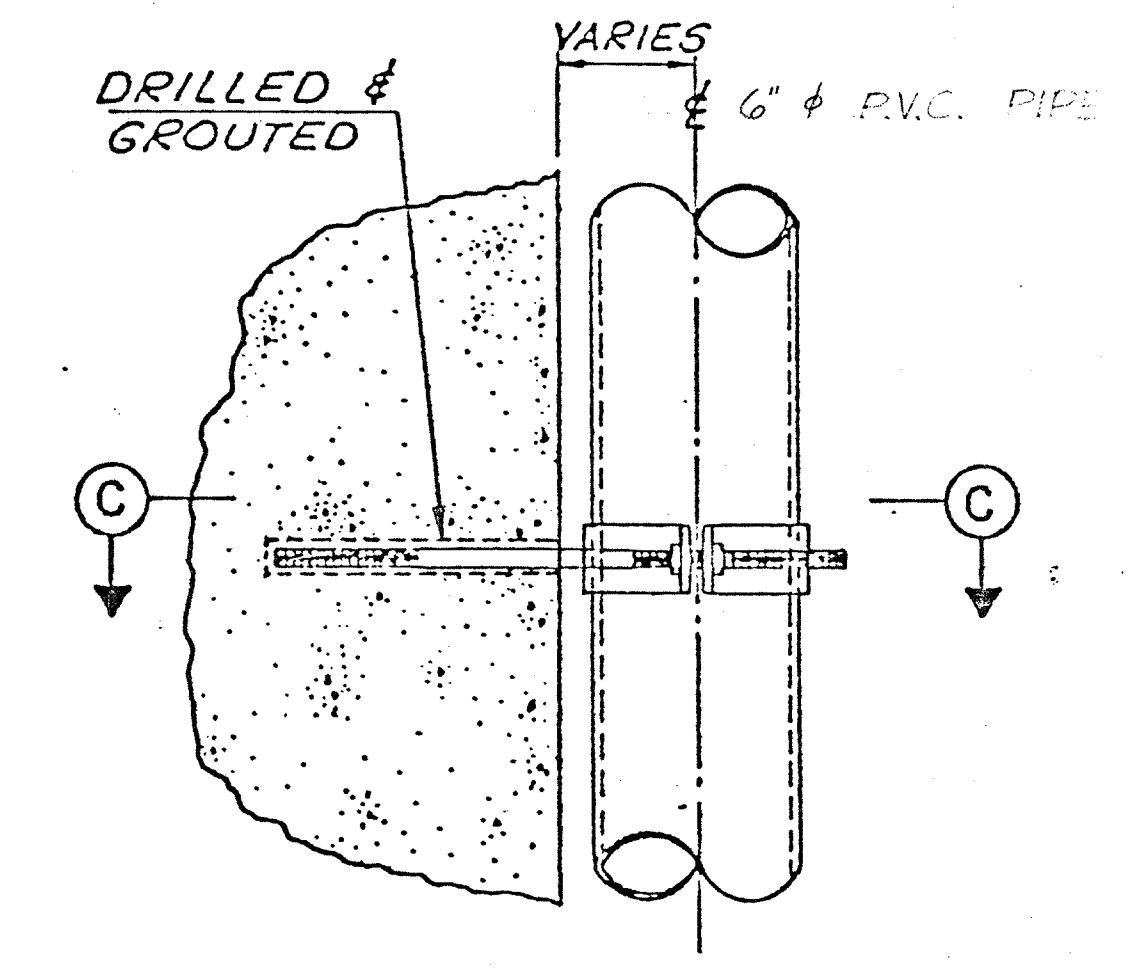
- FOR DOWNSPOUT LOCATIONS SEE SHEETS 80/120 AND 81/120
- DOWNSPOUTS AND FITTINGS TO BE INCLUDED WITH ITEM SPECIAL, NEOPRENE DRAINAGE TROUGH FOR PAYMENT.



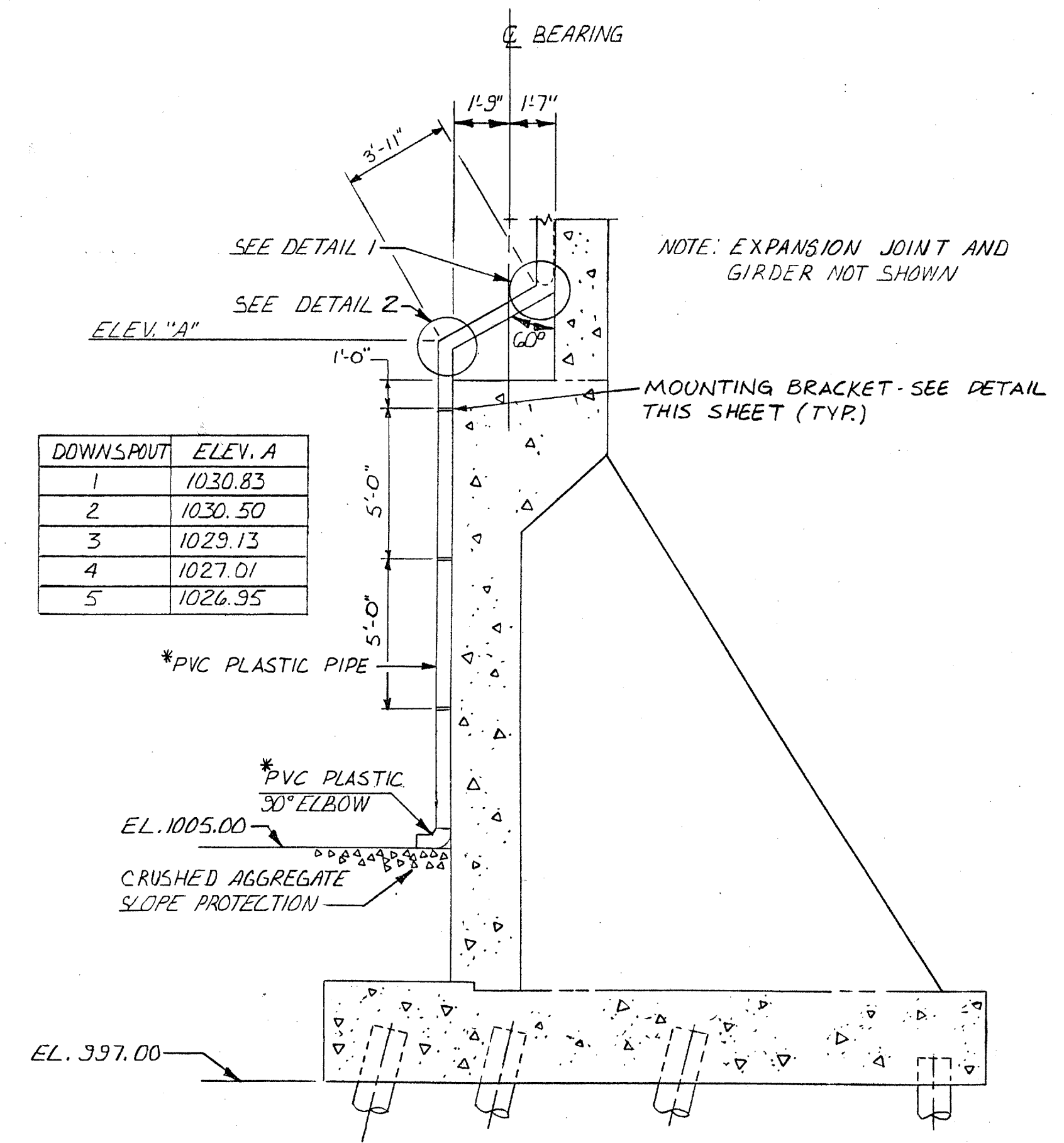
DETAIL 1



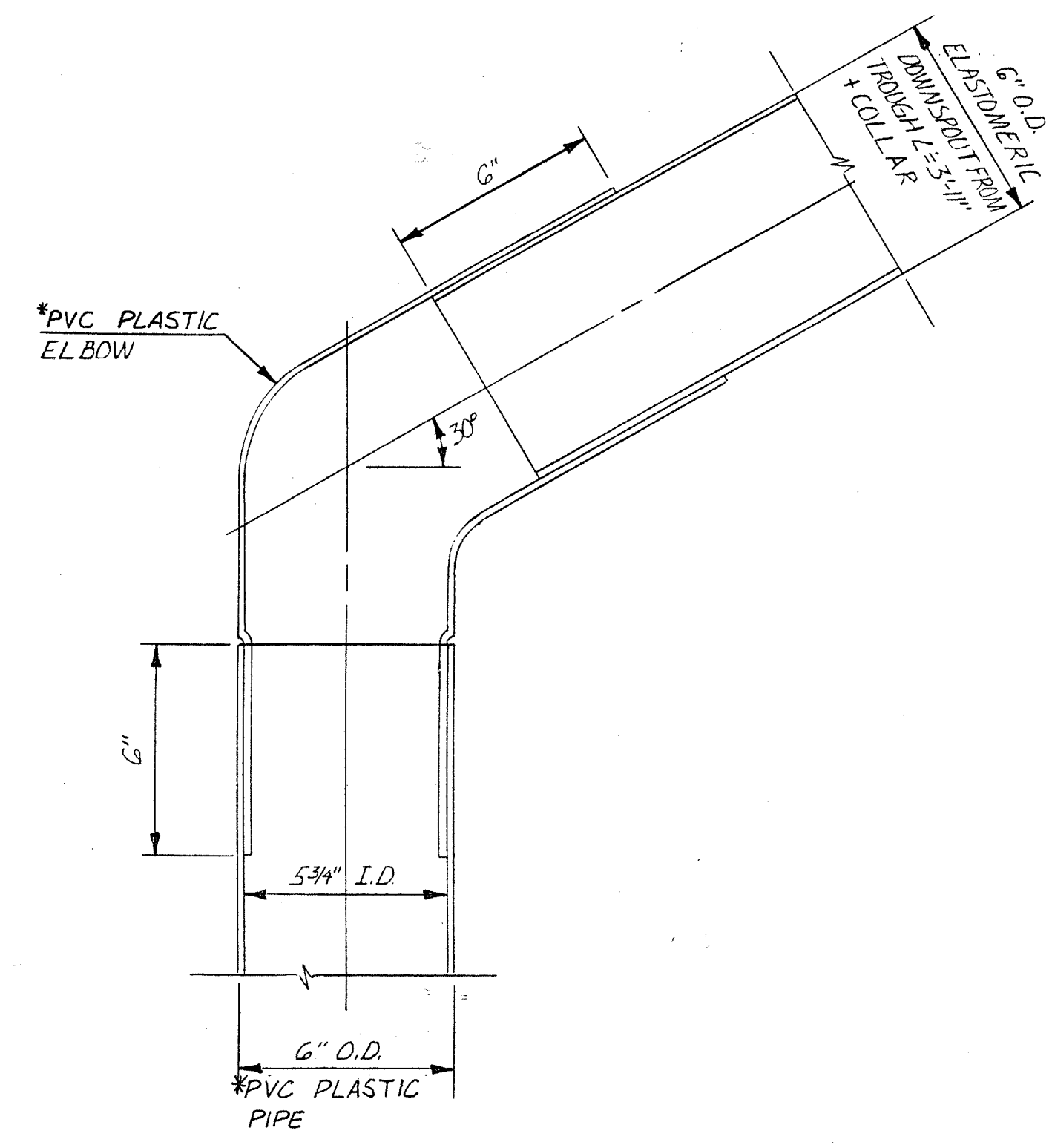
SECTION A-A



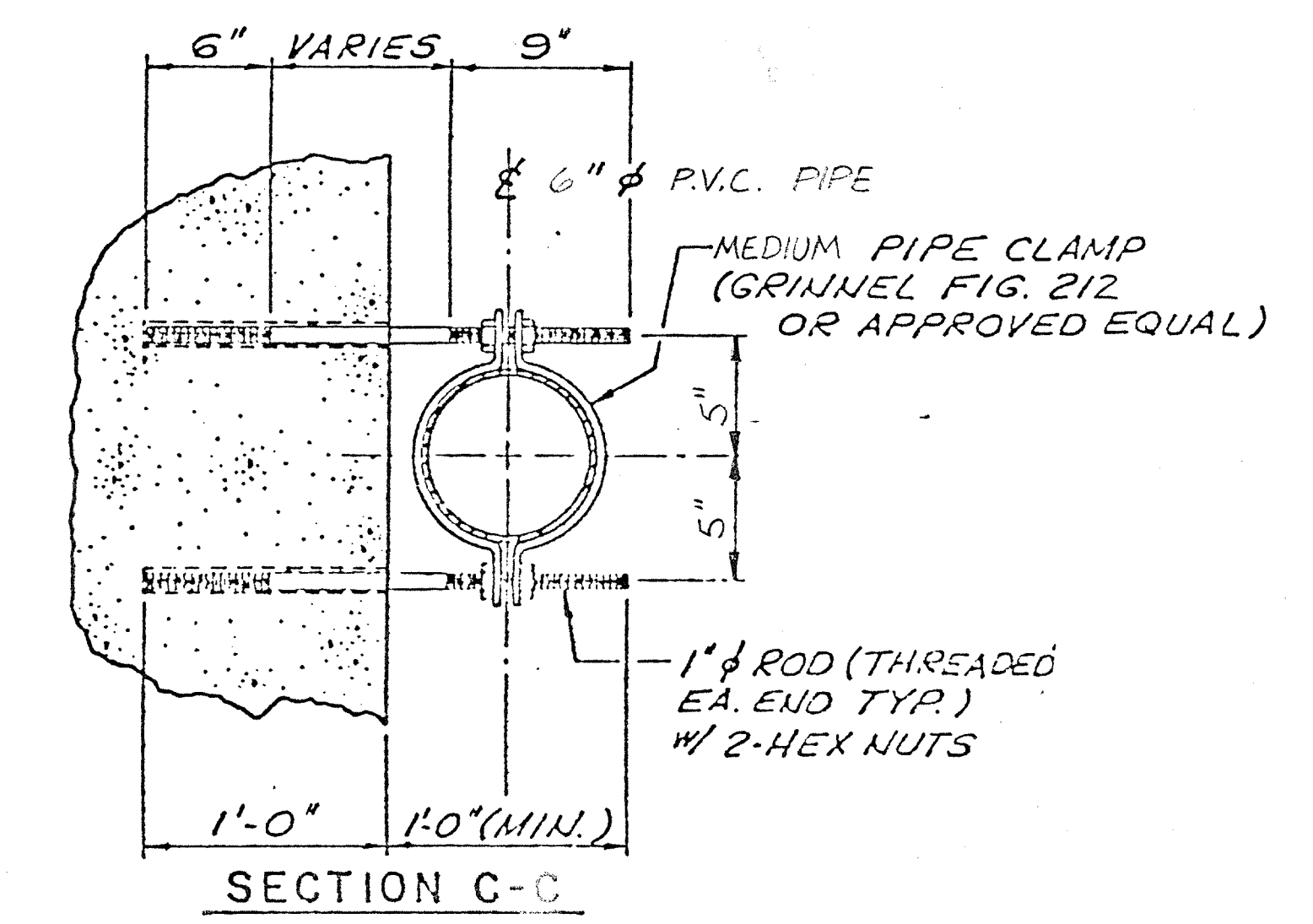
MOUNTING BRACKET DETAIL



DETAIL 2



* PVC PIPE AND FITTINGS SHALL MEET 707.19 AND ARE INCLUDED WITH ITEM SPECIAL, NEOPRENE DRAINAGE TROUGH FOR PAYMENT.



SECTION C-C

McCOY ASSOCIATES, INC. 82A/120
CONSULTING ENGINEERS
AKRON, OHIO

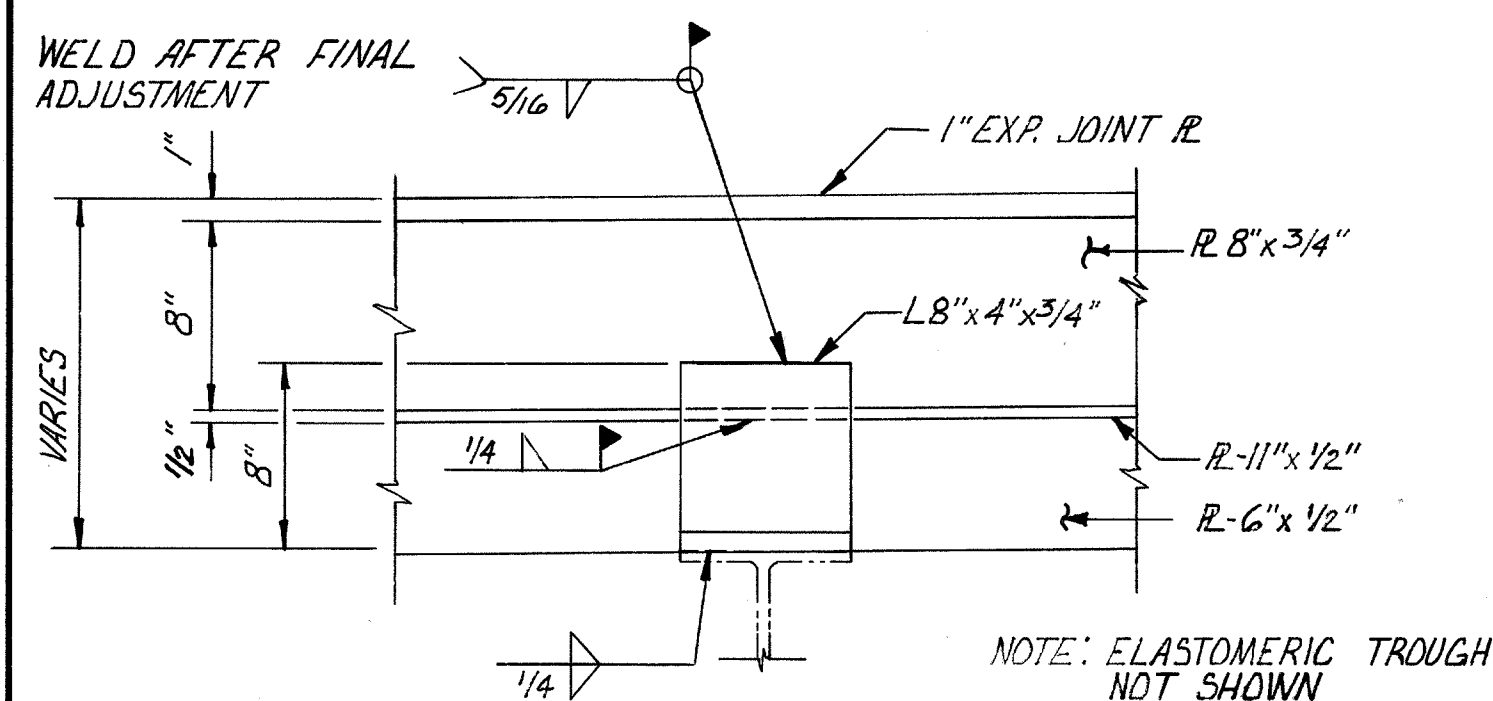
**EXPANSION JOINT DETAIL
AT EAST ABUTMENT**
BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGC	JWD		JBH	JBH	8-21-90	

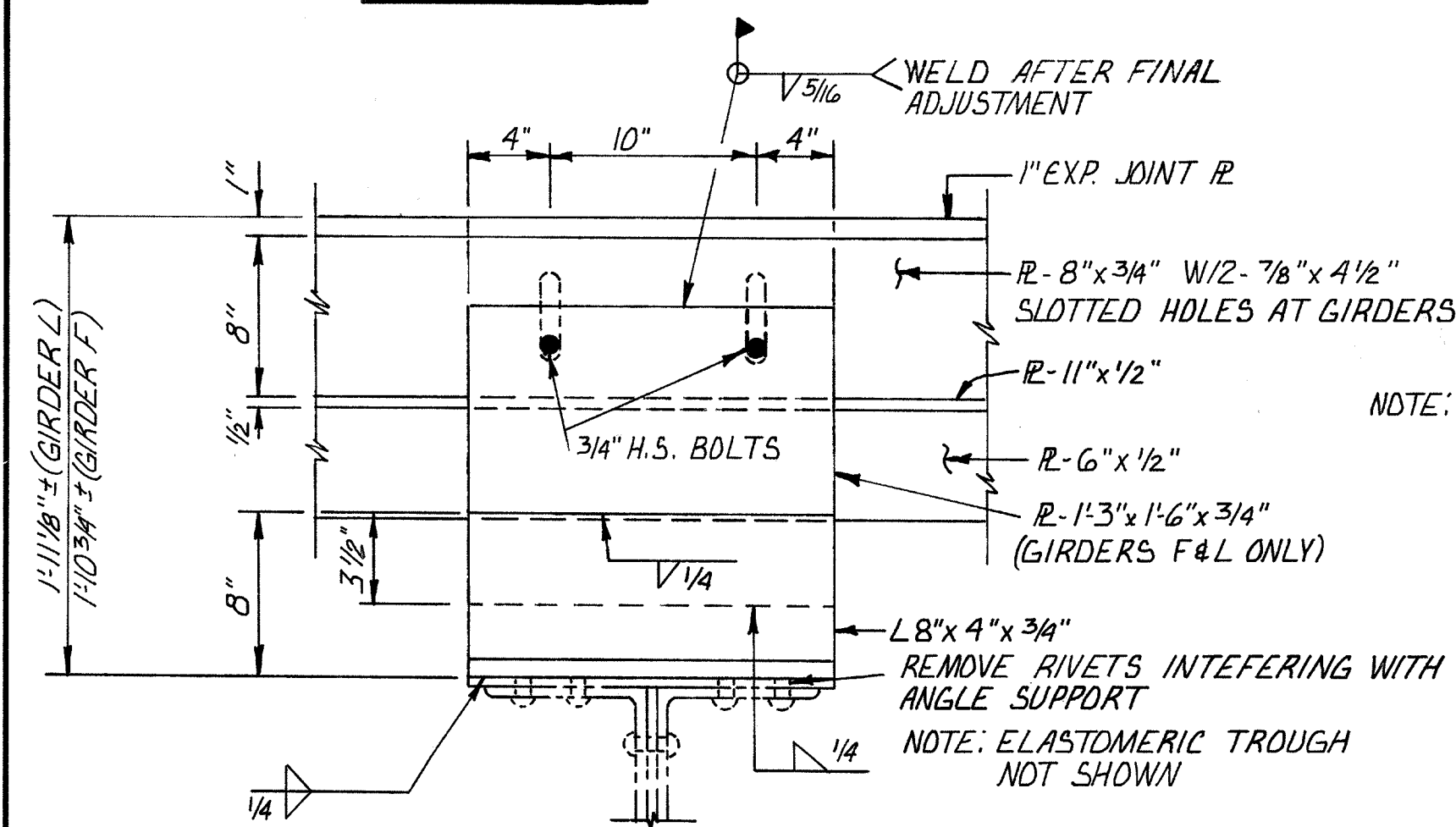
FHWA REGION	STATE	PROJECT
5	OHIO	

102B
12.14

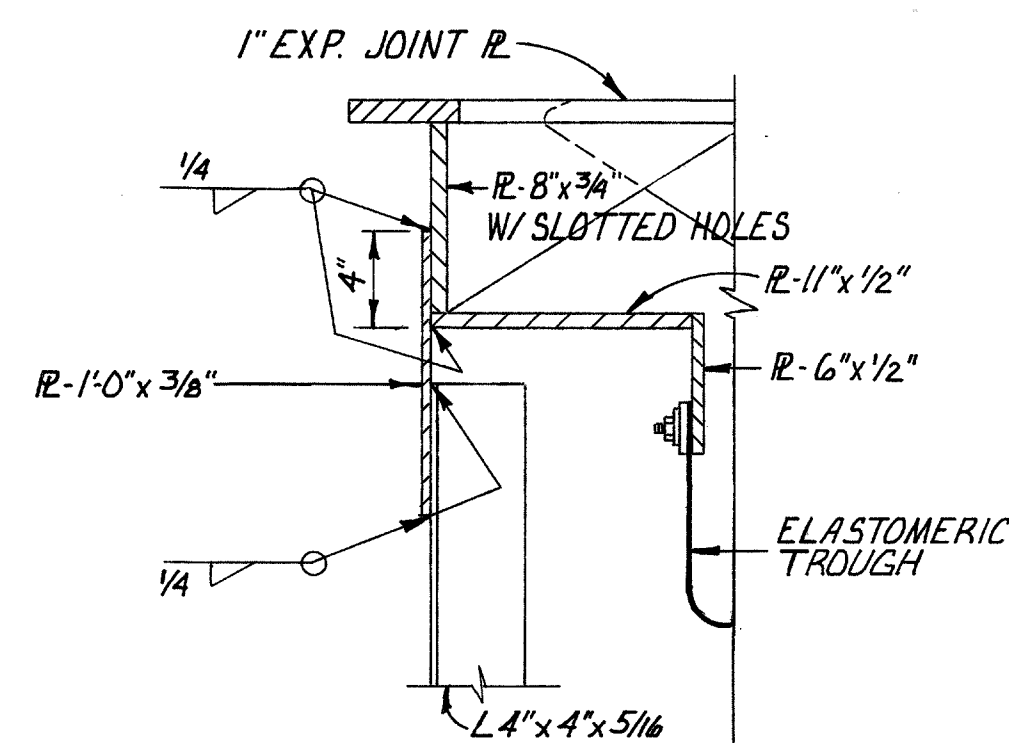
SUMMIT COUNTY
SUM 76-11.57



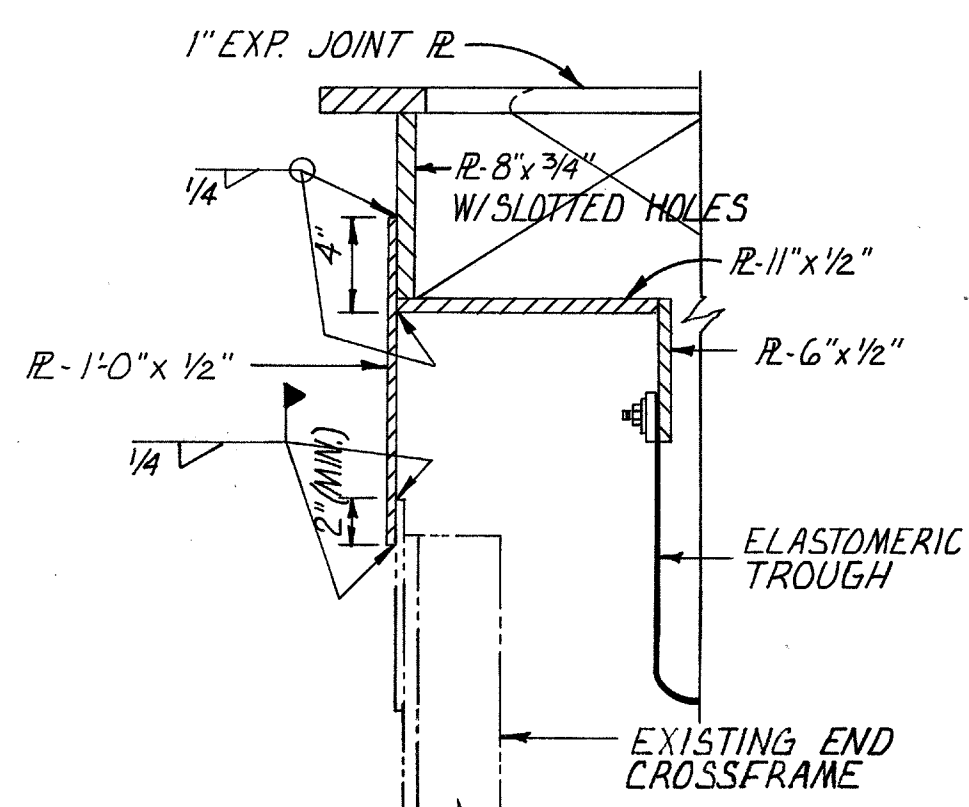
DETAIL I



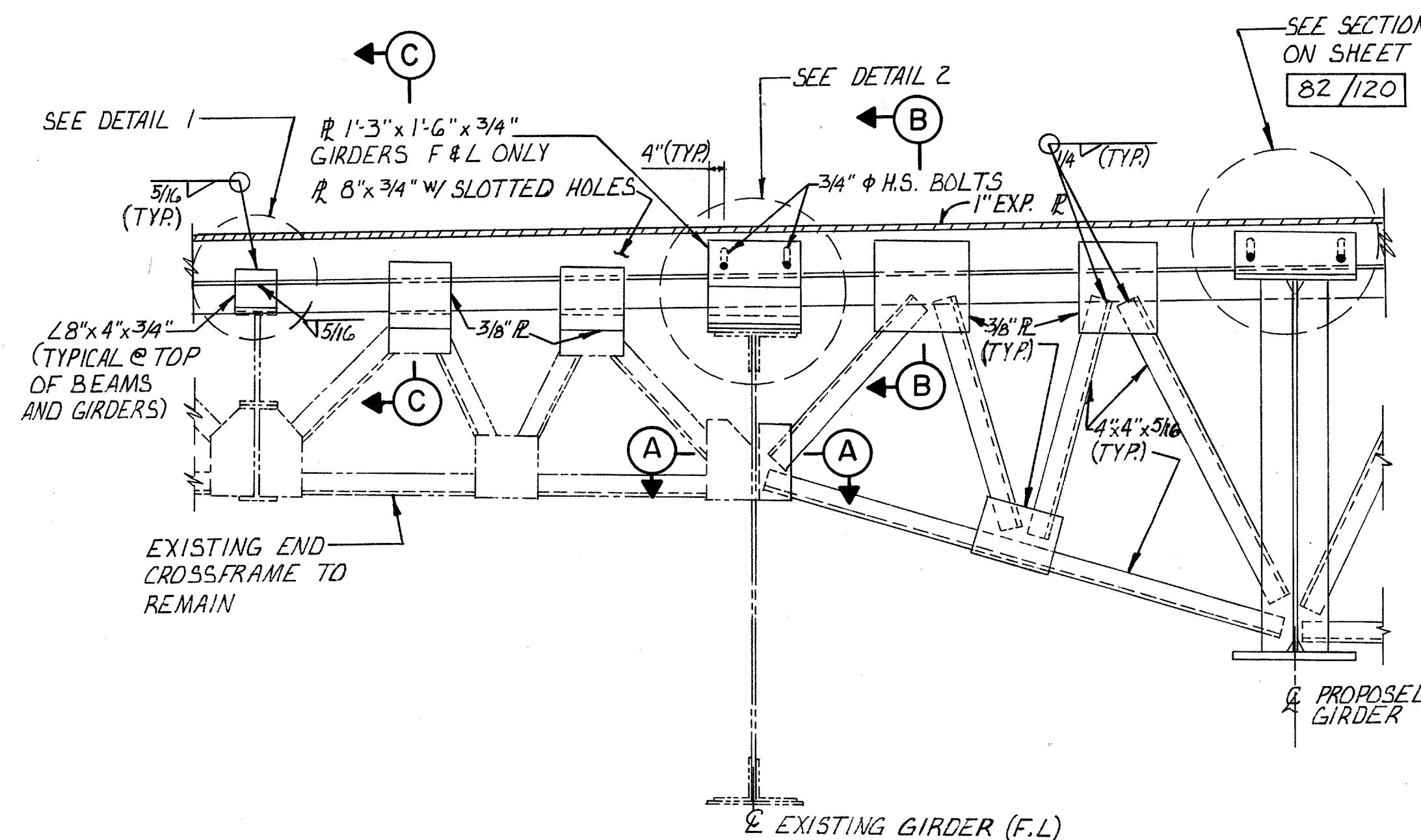
DETAIL 2



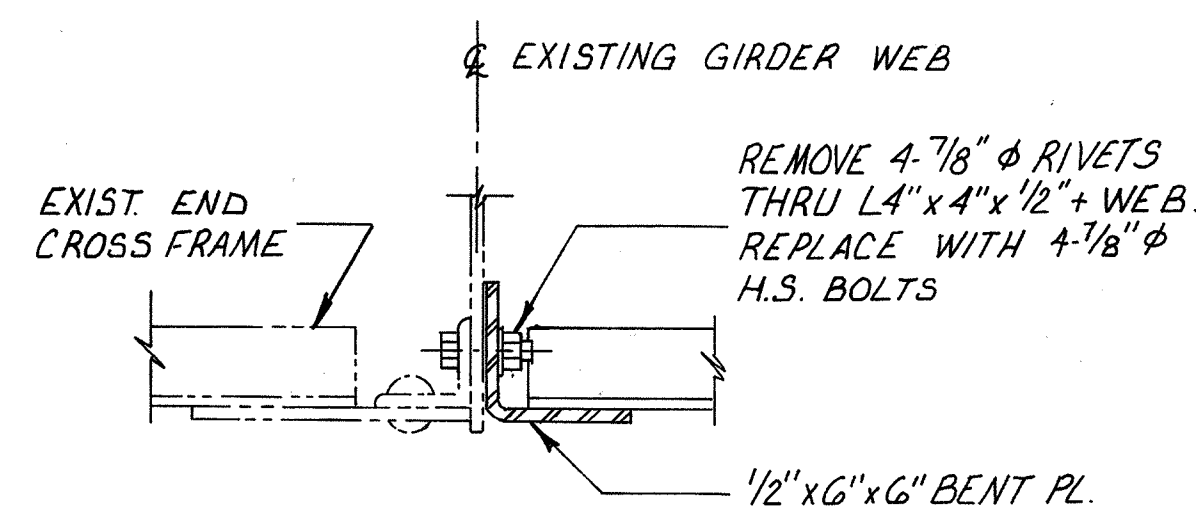
SECTION B-B



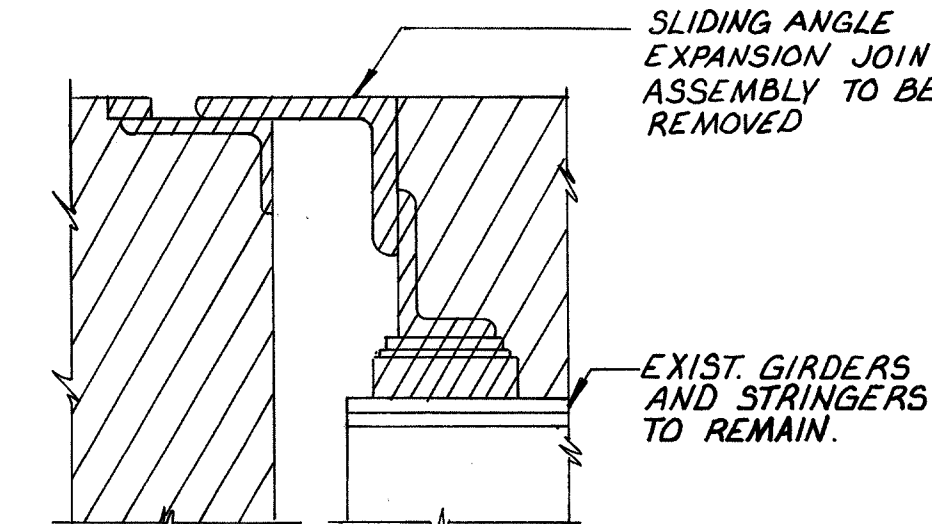
SECTION C-C



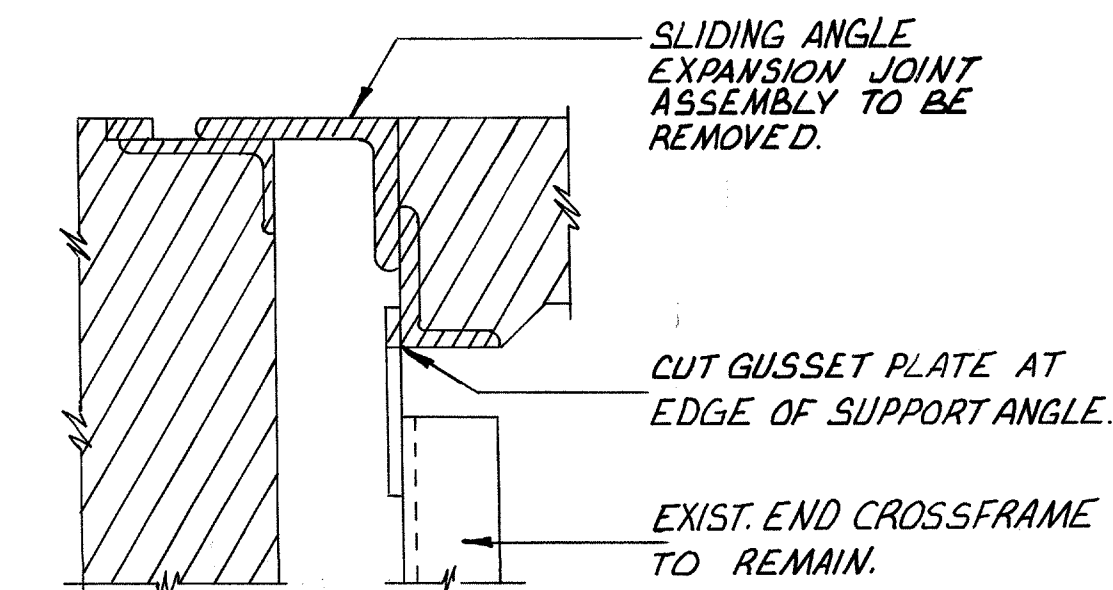
PARTIAL END CROSSFRAME DETAIL



SECTION A-A



REMOVAL DETAIL



REMOVAL DETAIL

NOTES:

- 1 ALL BOLTS SHALL BE HIGH STRENGTH A-325
- 2 FOR EXPANSION JOINT DETAILS SEE SHEETS 80/120 THRU 82A/120

McCoy Associates Inc. 82B/120
CONSULTING ENGINEERS
AKRON, OHIO

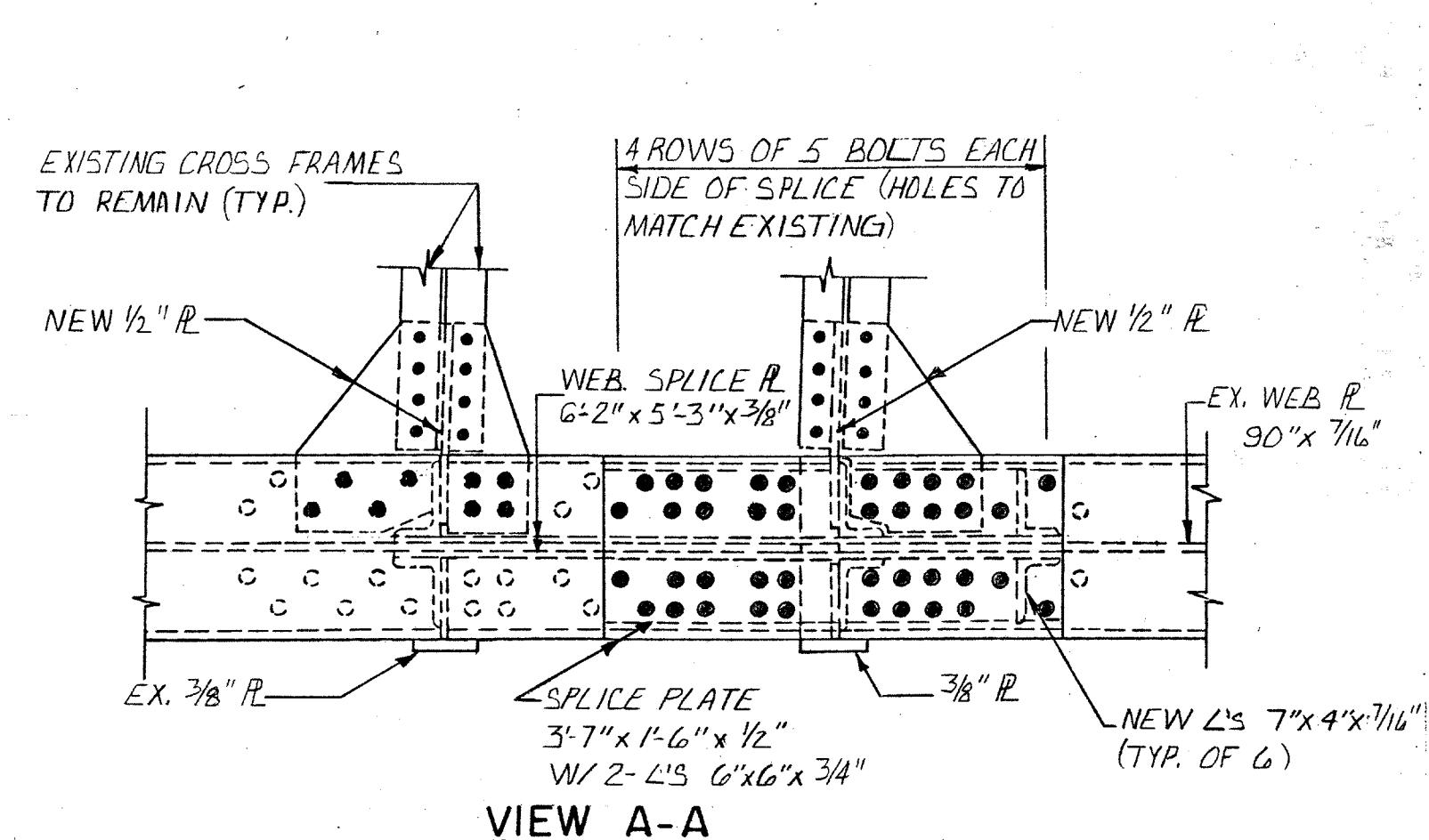
**EXPANSION JOINT DETAILS
AT EAST ABUTMENT**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGC	JWD		JBH	JBH	7-19-90	

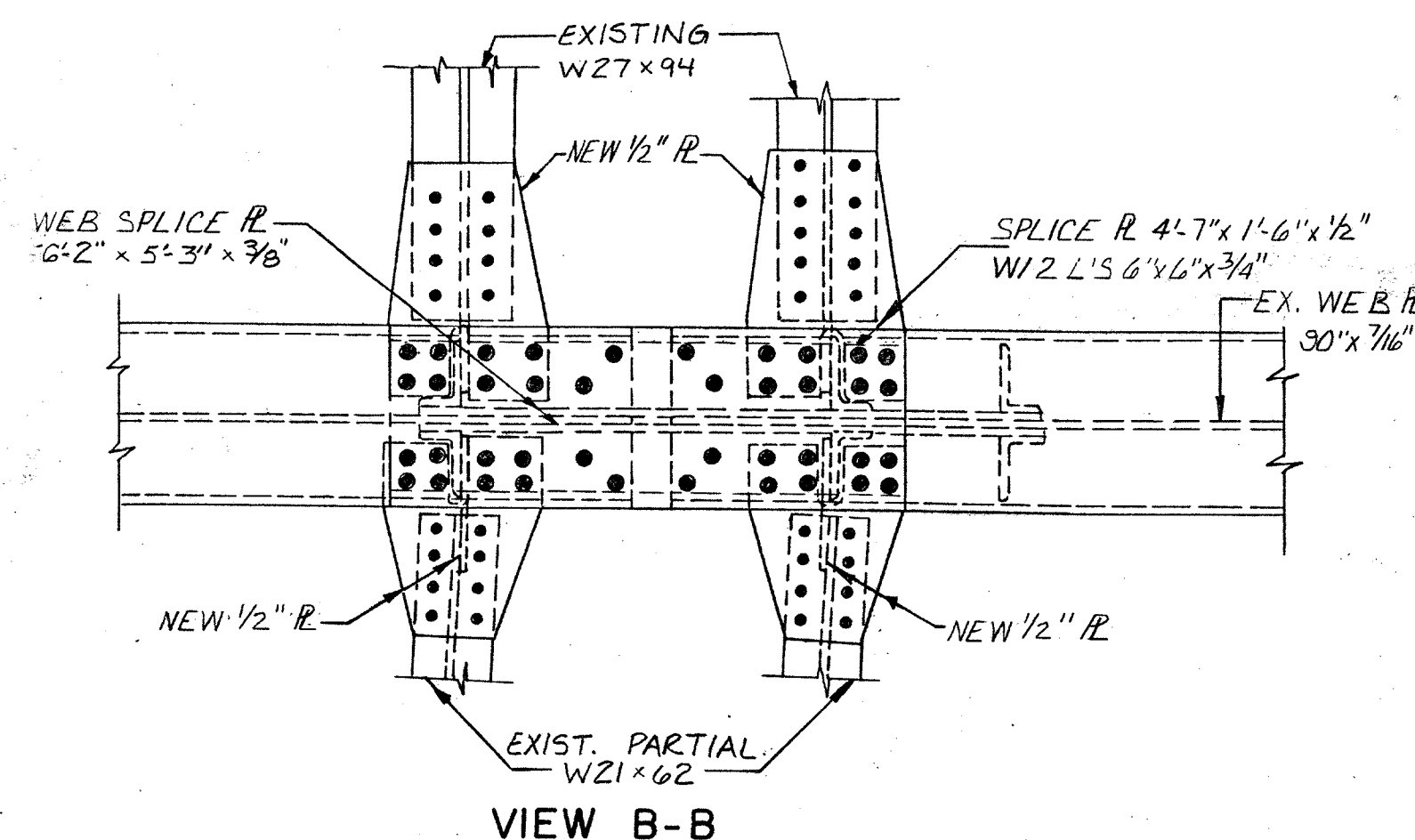
**SUMMIT COUNTY
SUM 76-11.57**

NOTES

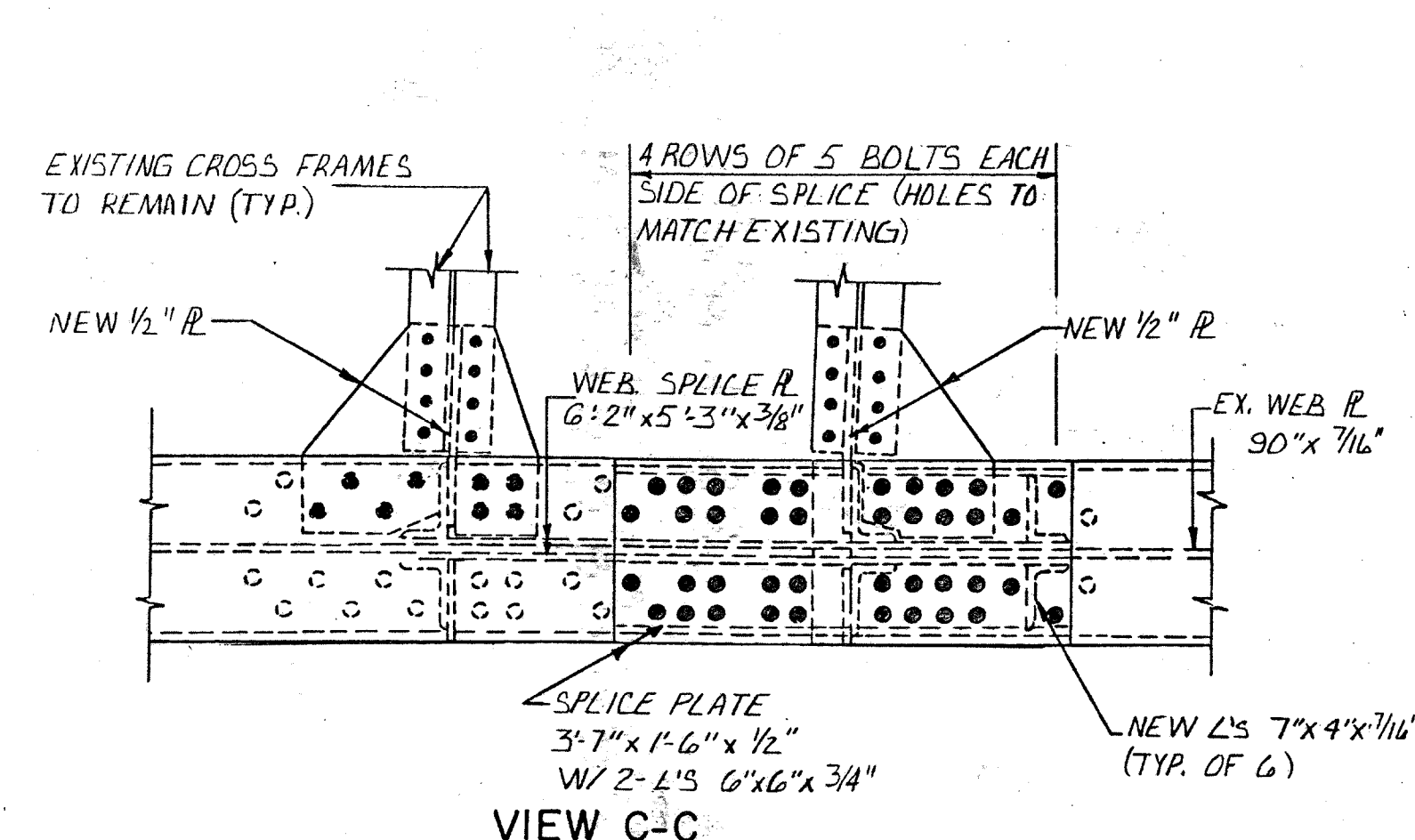
- 1 QUANTITIES FOR SPLICES AT REMOVED EXPANSION ROLLERS WILL BE PAID FOR UNDER ITEM 513 STRUCTURAL STEEL FOR REHABILITATION, AS PER PLAN. DIMENSION OF SPLICE PLATES AND EXISTING RIVET HOLE LOCATIONS SHALL BE FIELD VERIFIED.
- 2 BOLTS SHALL REPLACE REMOVED RIVETS AND SHALL BE A-325- $\frac{7}{8}$ " ϕ BOLTS.
- 3 SEE SHEET [83/120] FOR REMOVAL DETAILS.
- 4 FOR SECTIONS E-E AND F-F SEE SHEET [83B/120]
- 5 SEE SHEET [58/120] FOR NOTES ON "EXISTING RIVET AND STRUCTURAL STEEL REMOVAL" AND "BOLTED CONNECTIONS TO EXISTING STEEL".
- 6 ALL SPLICE PLATES AND ANGLES SHALL BE A36 STEEL (CVN) AND SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS



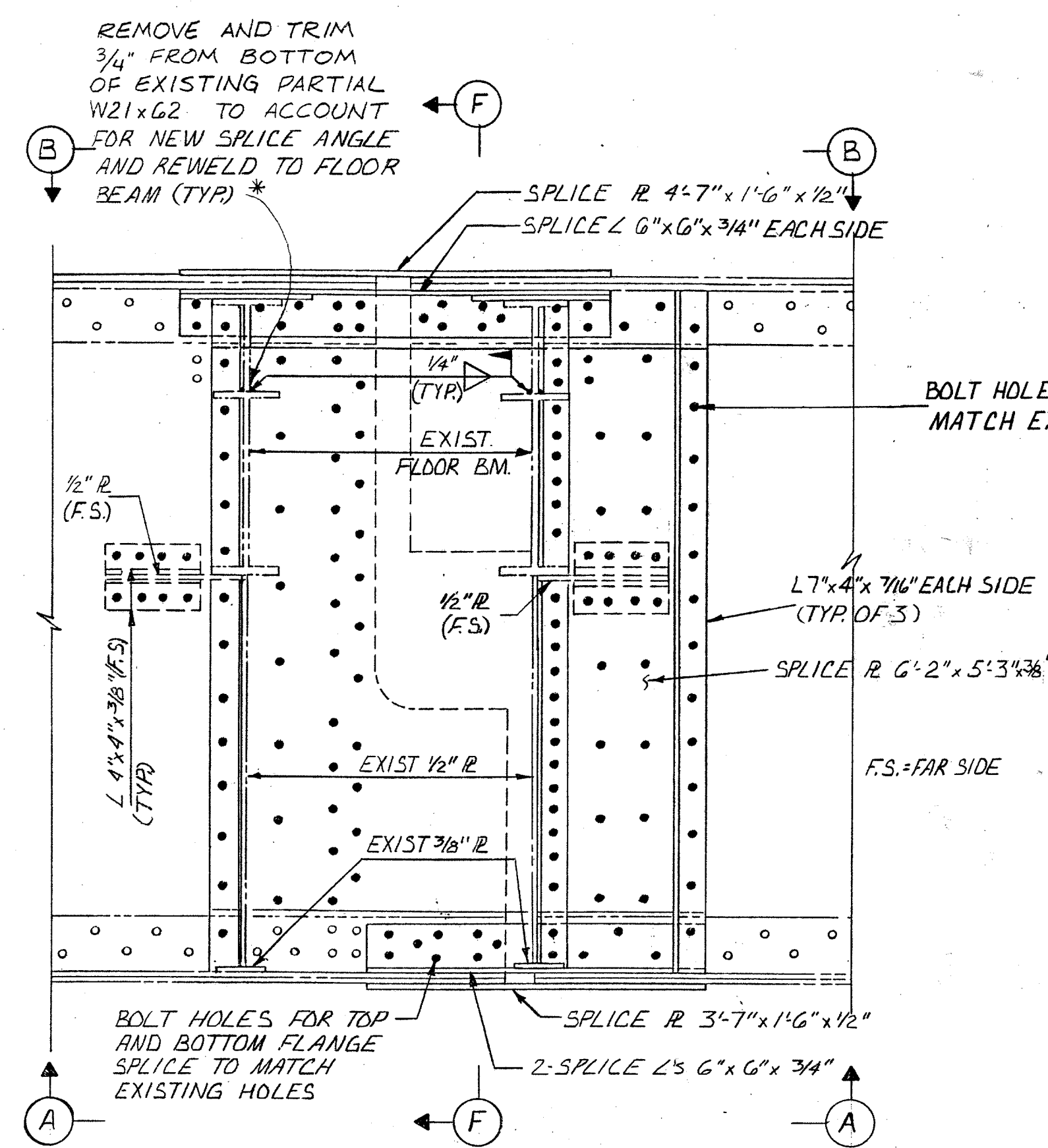
VIEW A-A



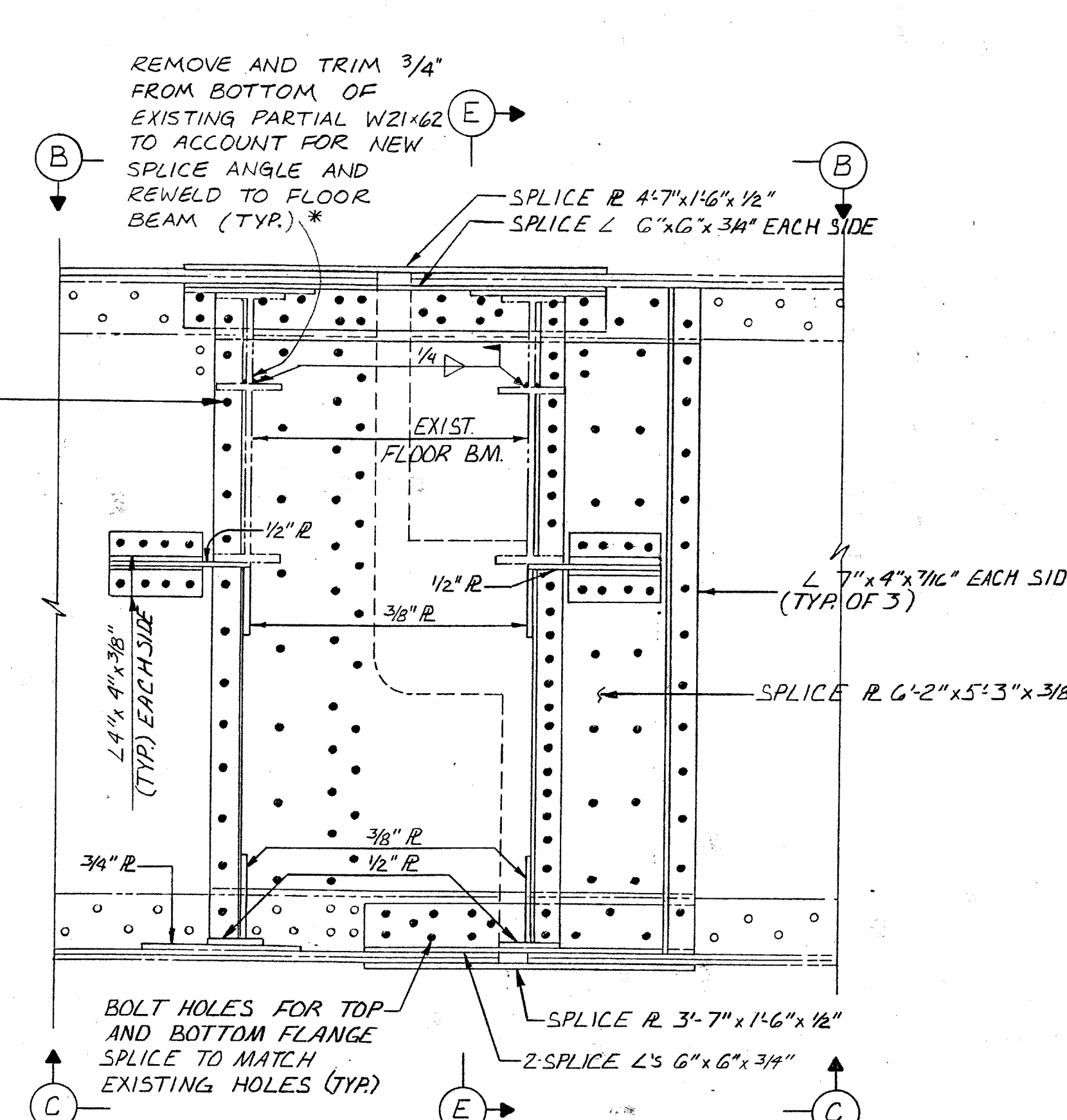
VIEW B-B



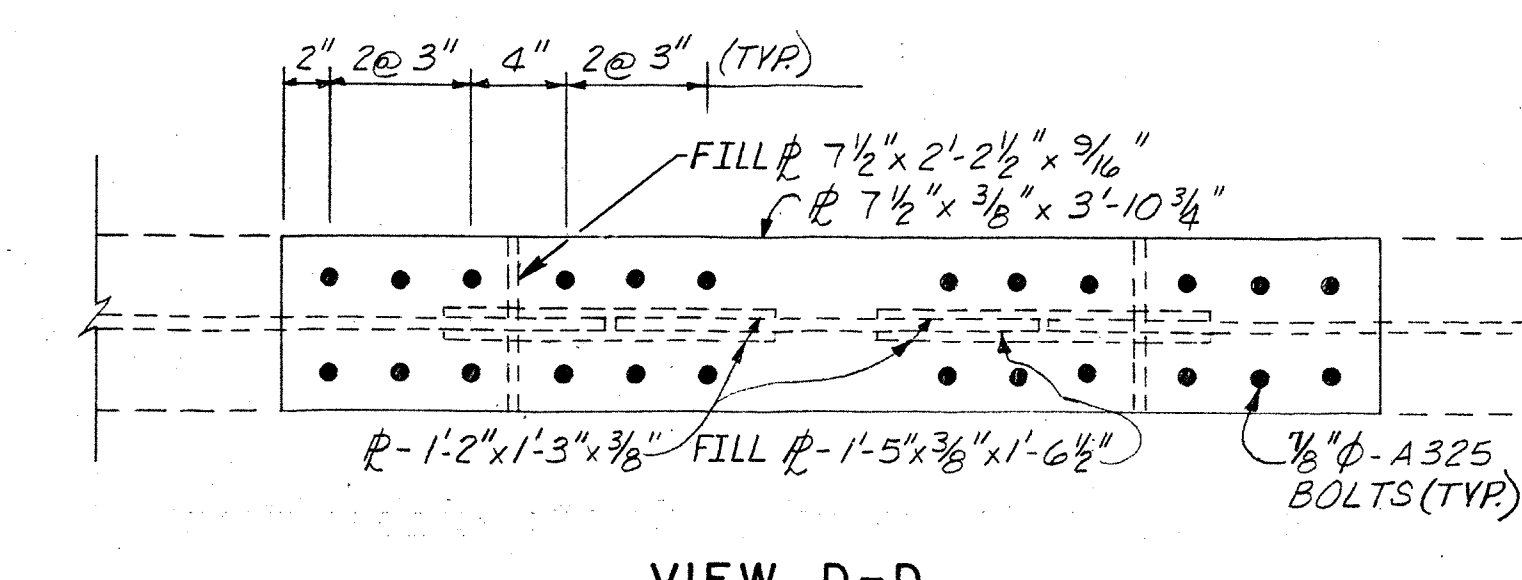
VIEW C-C



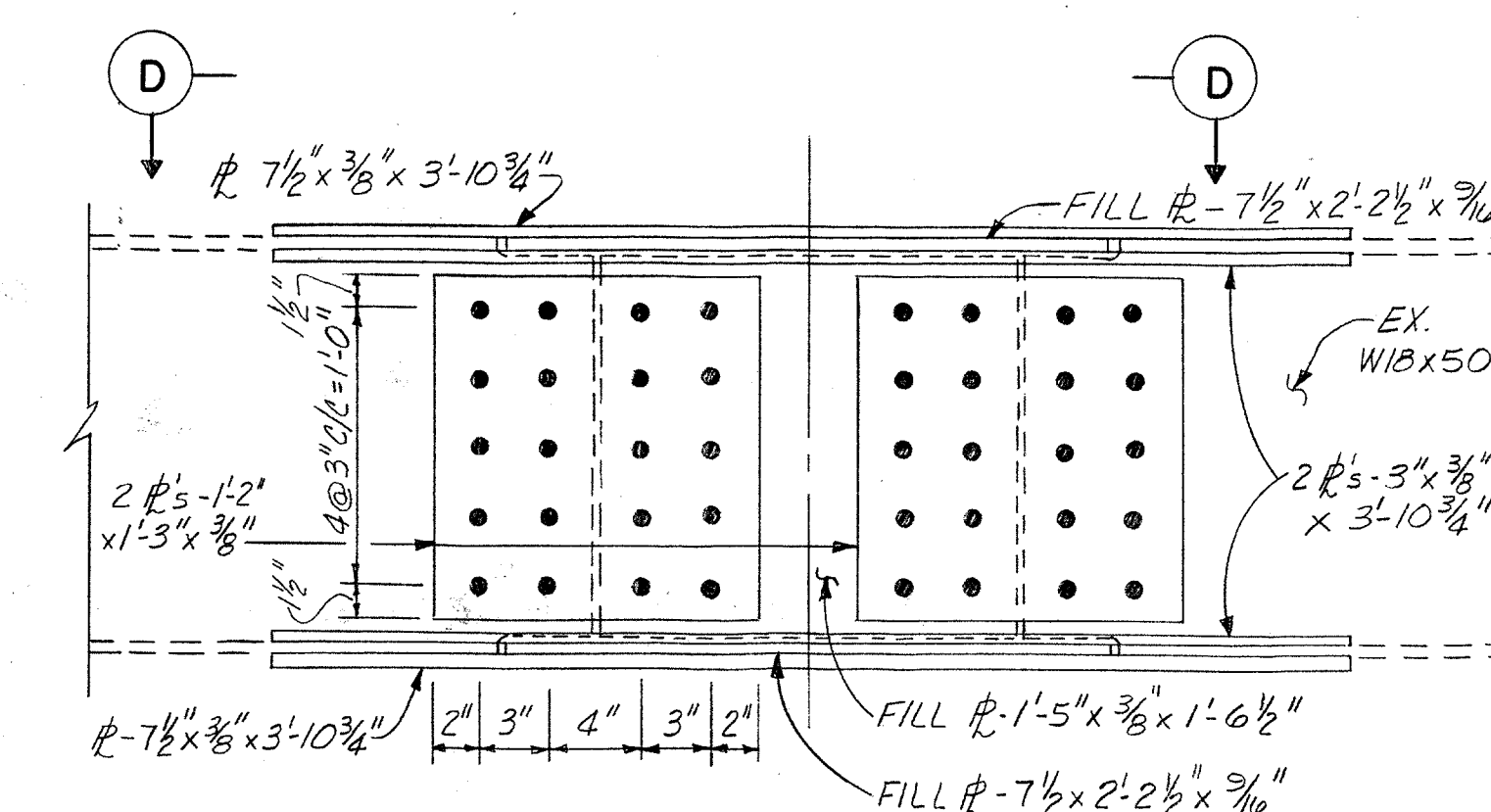
**SPlice detail at removed expansion roller
WITH KNEE BRACING BELOW FLOOR BEAM**



**SPlice detail at removed expansion roller
WITH K-TYPE BRACING BELOW BEAM
*SEE NOTES ON SHEET [83B/120]**



VIEW D-D



**SPlice at W18x50 beams
BETWEEN GIRDERS**

McCOY ASSOCIATES INC. 83A/120
CONSULTING ENGINEERS
AKRON, OHIO

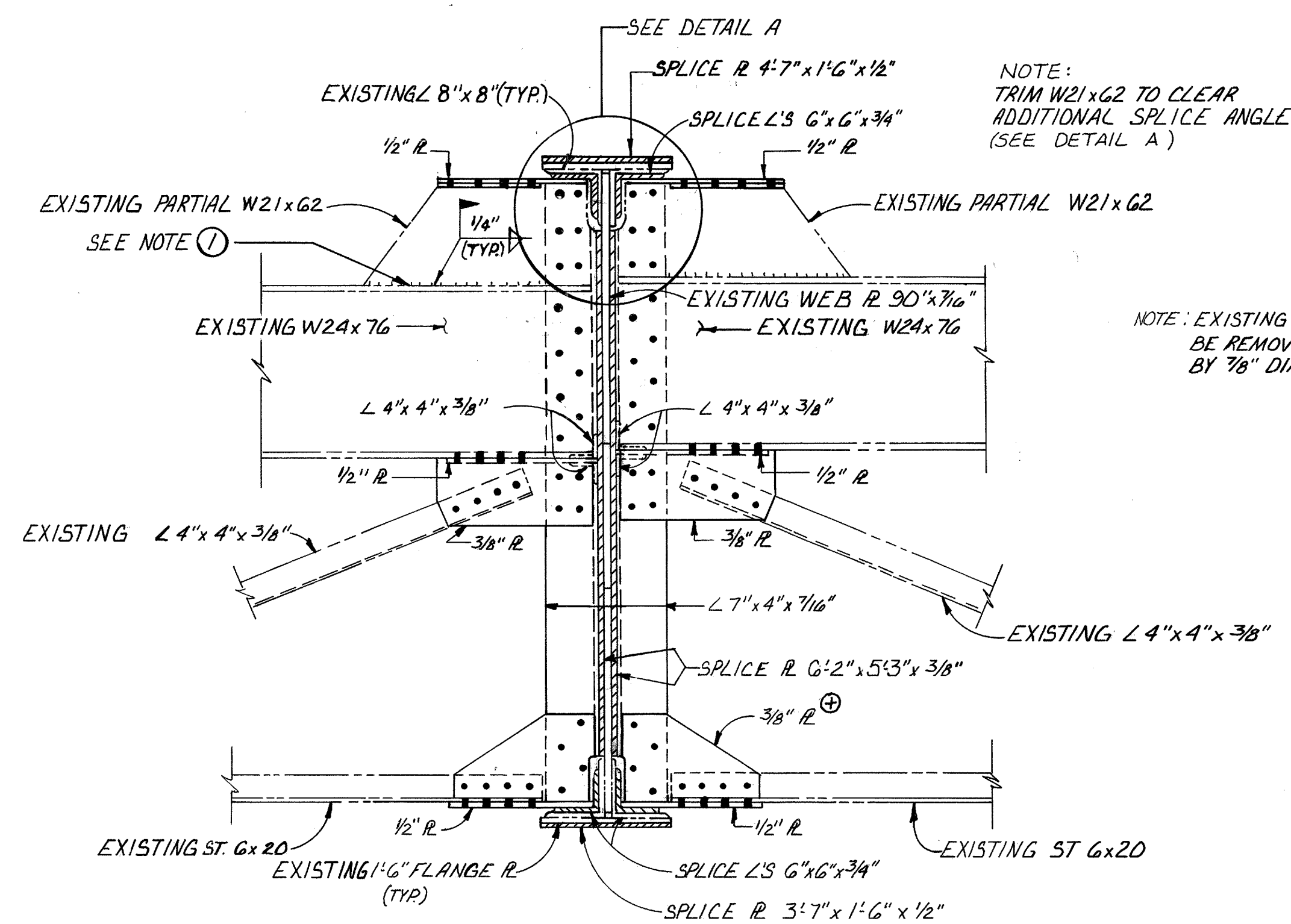
**SPlice DETAILS AT
REMOVED EXPANSION ROLLER**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGC	DAK		JBH	JBH	7-13-90	

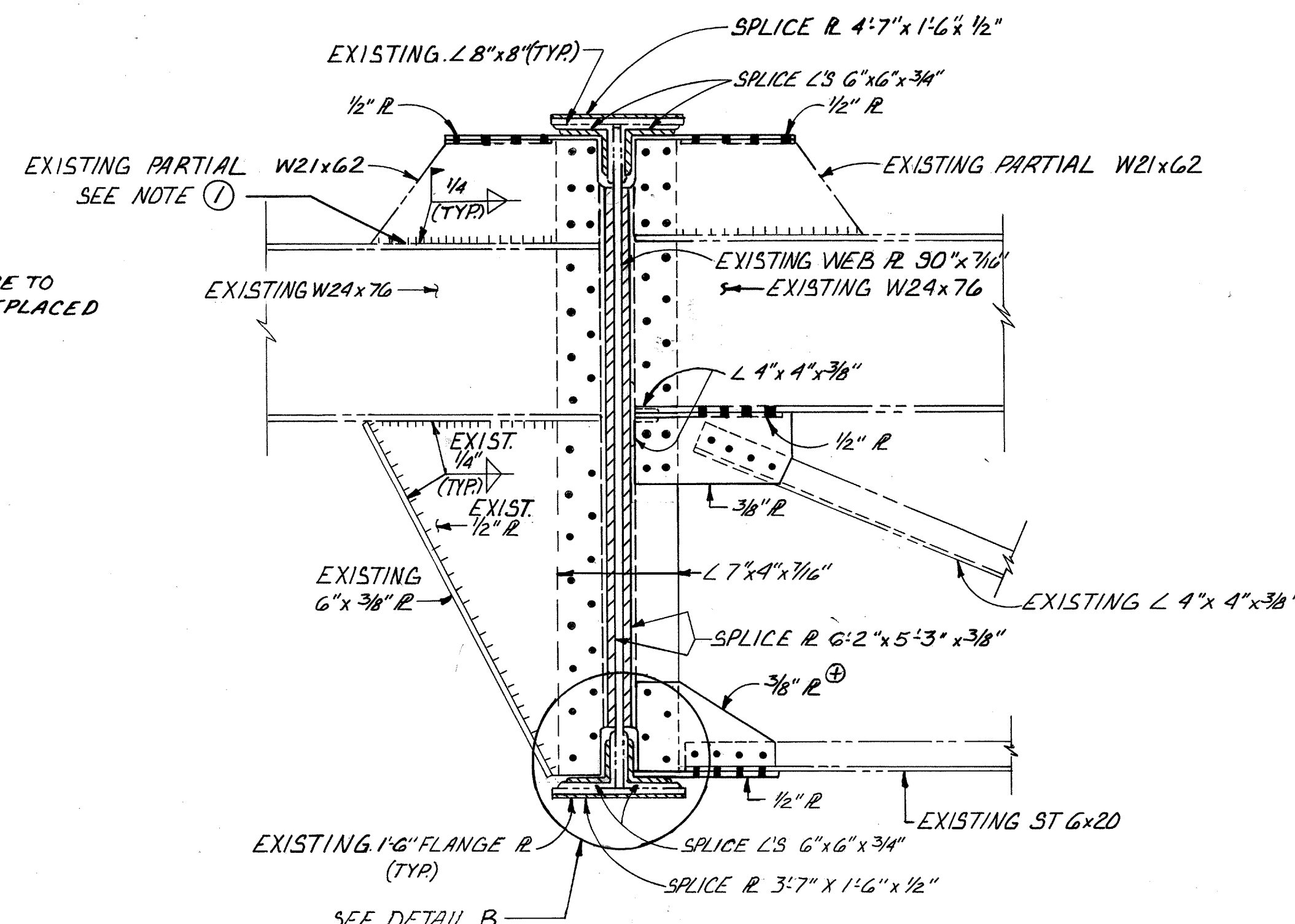
FHWA REGION	STATE	PROJECT	
5	OHIO		

1031
1214

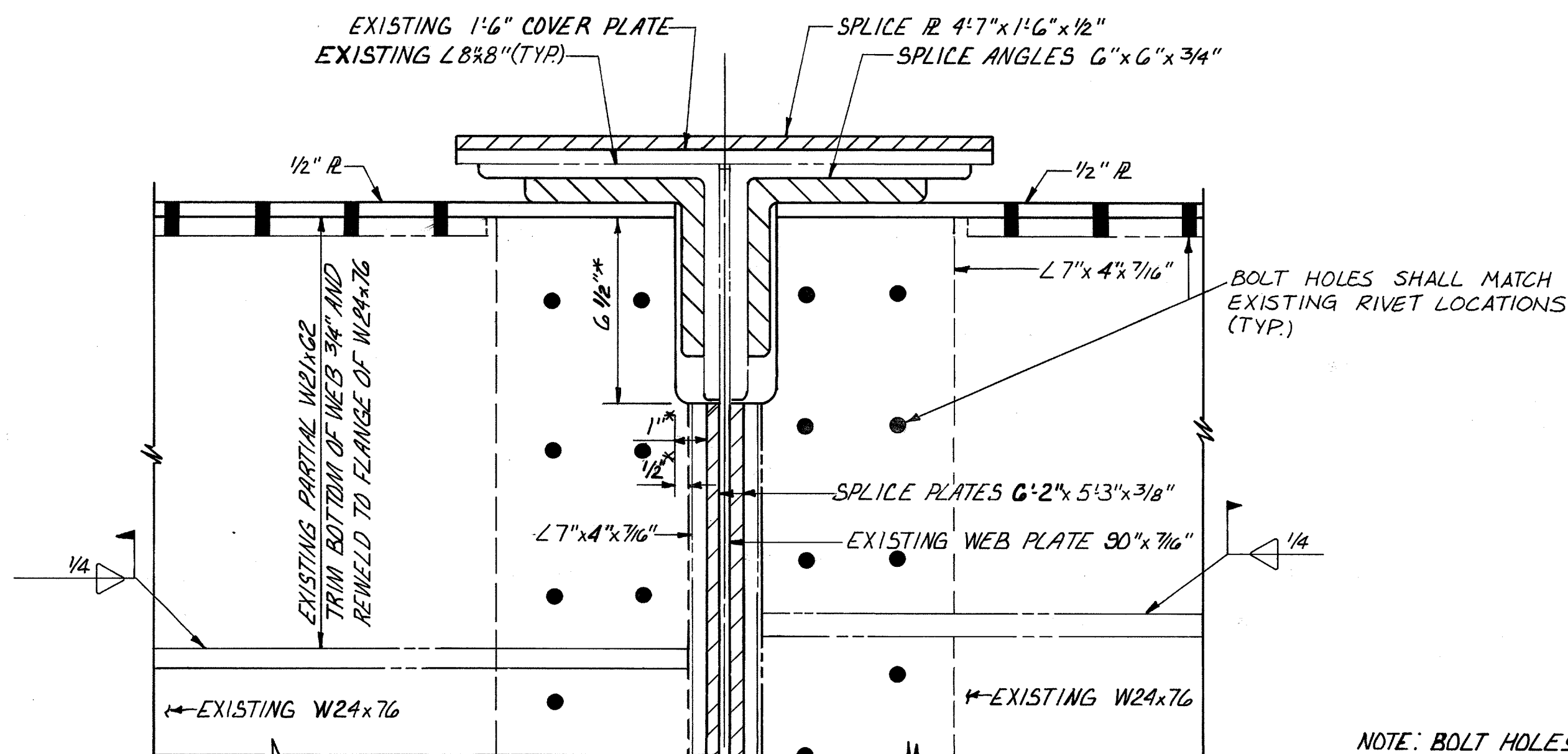
SUMMIT COUNTY
SUM 76-11.57



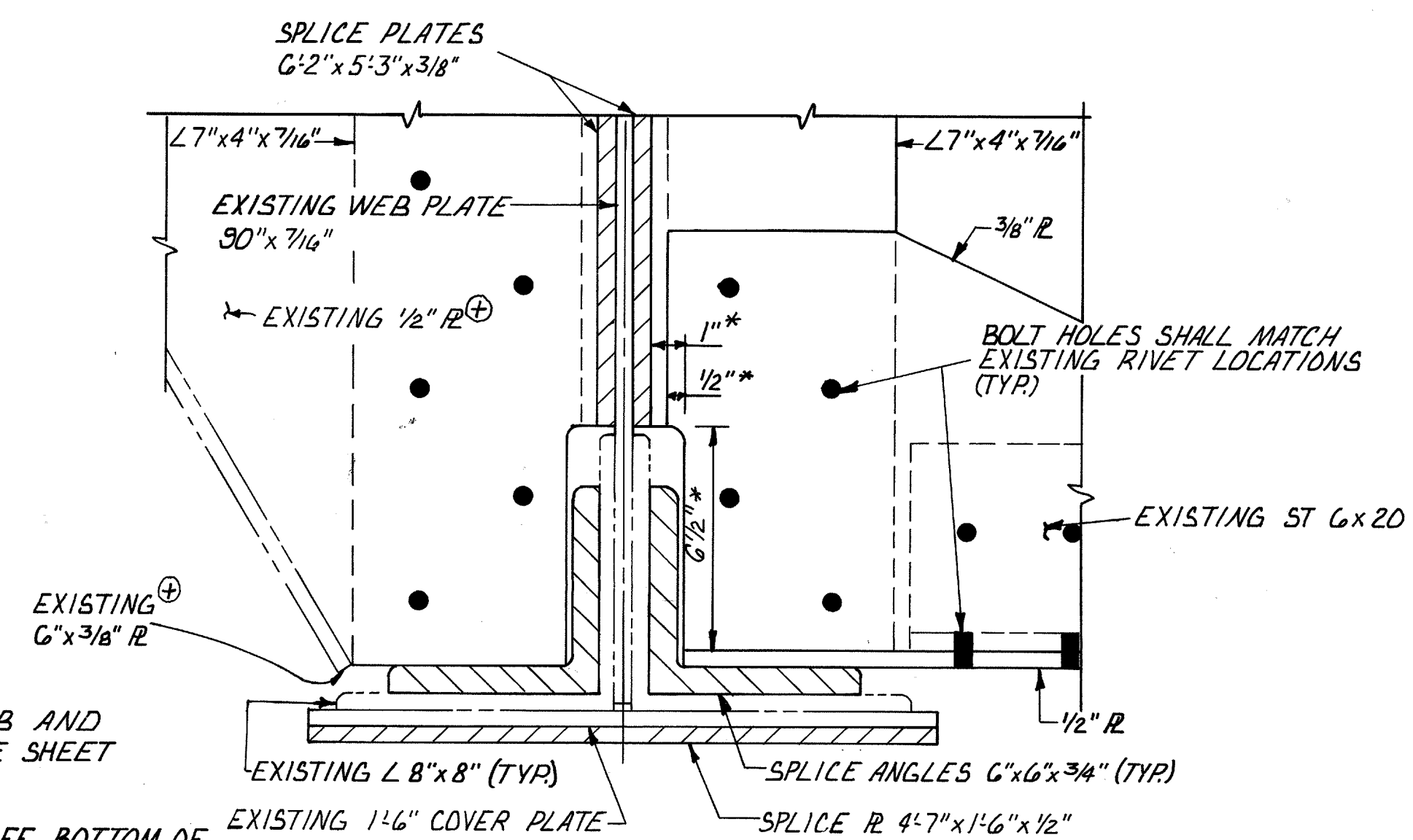
SECTION E-E



SECTION F-F



DETAIL A



DETAIL B

* DIMENSIONS OF CUT REQUIRED BY THE 6"x6"x3/4" SPLICE ANGLE. PRIOR TO CUTTING THESE DIMENSIONS SHALL BE FIELD VARIFIED.

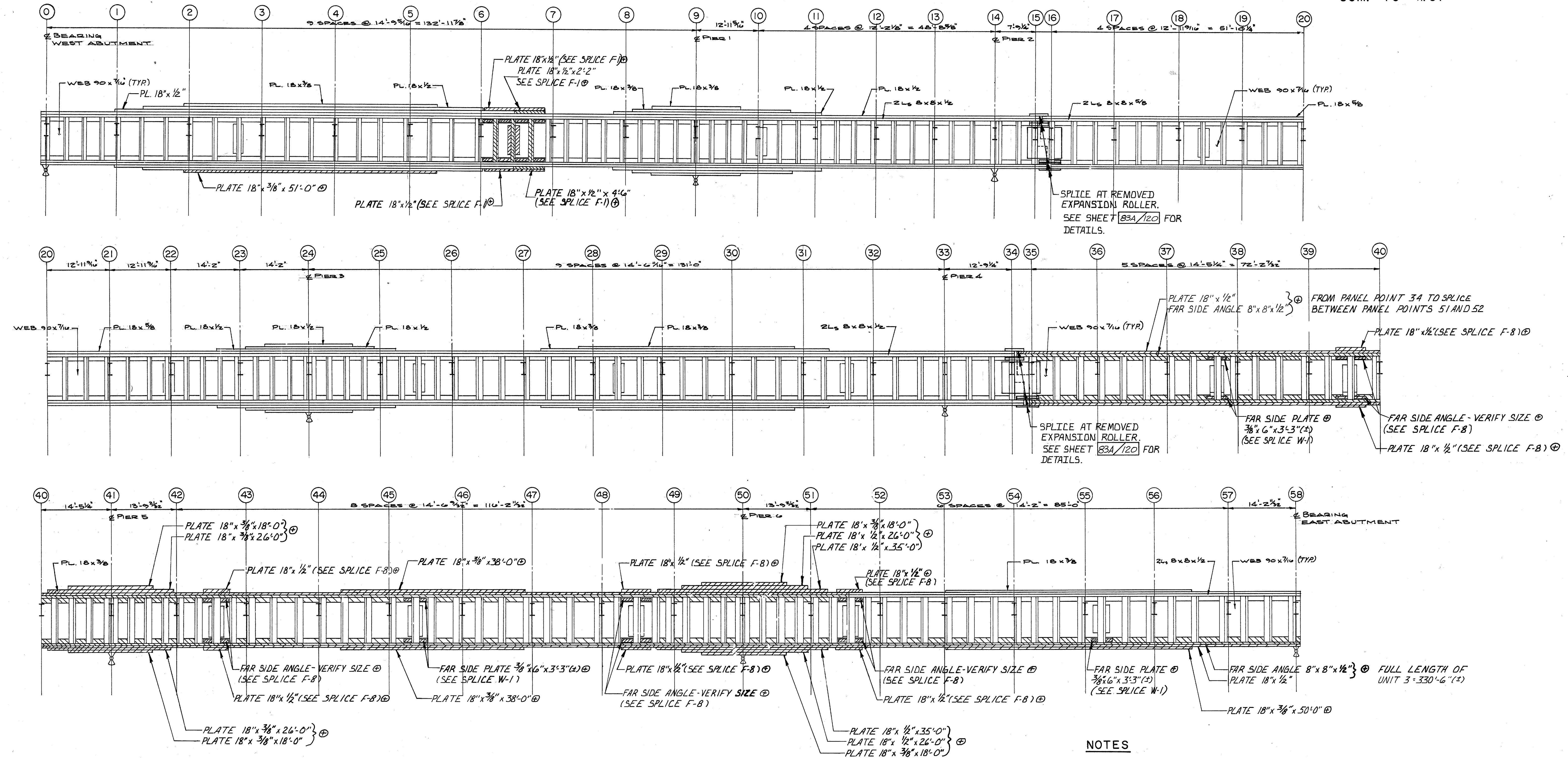
NOTE: BOLT HOLES THROUGH WEB AND FLANGE NOT SHOWN. SEE SHEET 83A/120 FOR DETAILS

⊕ TRIM 3/4" OFF BOTTOM OF PLATE TO ACCOUNT FOR NEW L 6"x6"x3/4"

- NOTES
- EXISTING WELD SHALL BE REMOVED BY THE AIR-ARC PROCESS. THE CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DAMAGE TO THE BEAM FLANGE WHICH IS TO REMAIN. FLANGE TOP SHALL THEN BE GROUND SMOOTH PRIOR TO REWELDING OF THE PARTIAL W21xG2. ANY DAMAGE TO EXISTING MATERIAL TO REMAIN IN PLACE DUE TO THE CONTRACTOR'S REMOVAL OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE COST OF THE CONTRACTOR.
 - FOR OTHER DETAILS AT REMOVED EXPANSION ROLLER SEE SHEETS 83/120 AND 83A/120

<p>McCOY ASSOCIATES, INC. 83B/120 CONSULTING ENGINEERS AKRON, OHIO</p>					
<p>SPLICE DETAILS AT REMOVED EXPANSION ROLLER</p>					
<p>BRIDGE NO. SUM 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT</p>					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
JGC	JWD		JBH	JBH	8-21-90

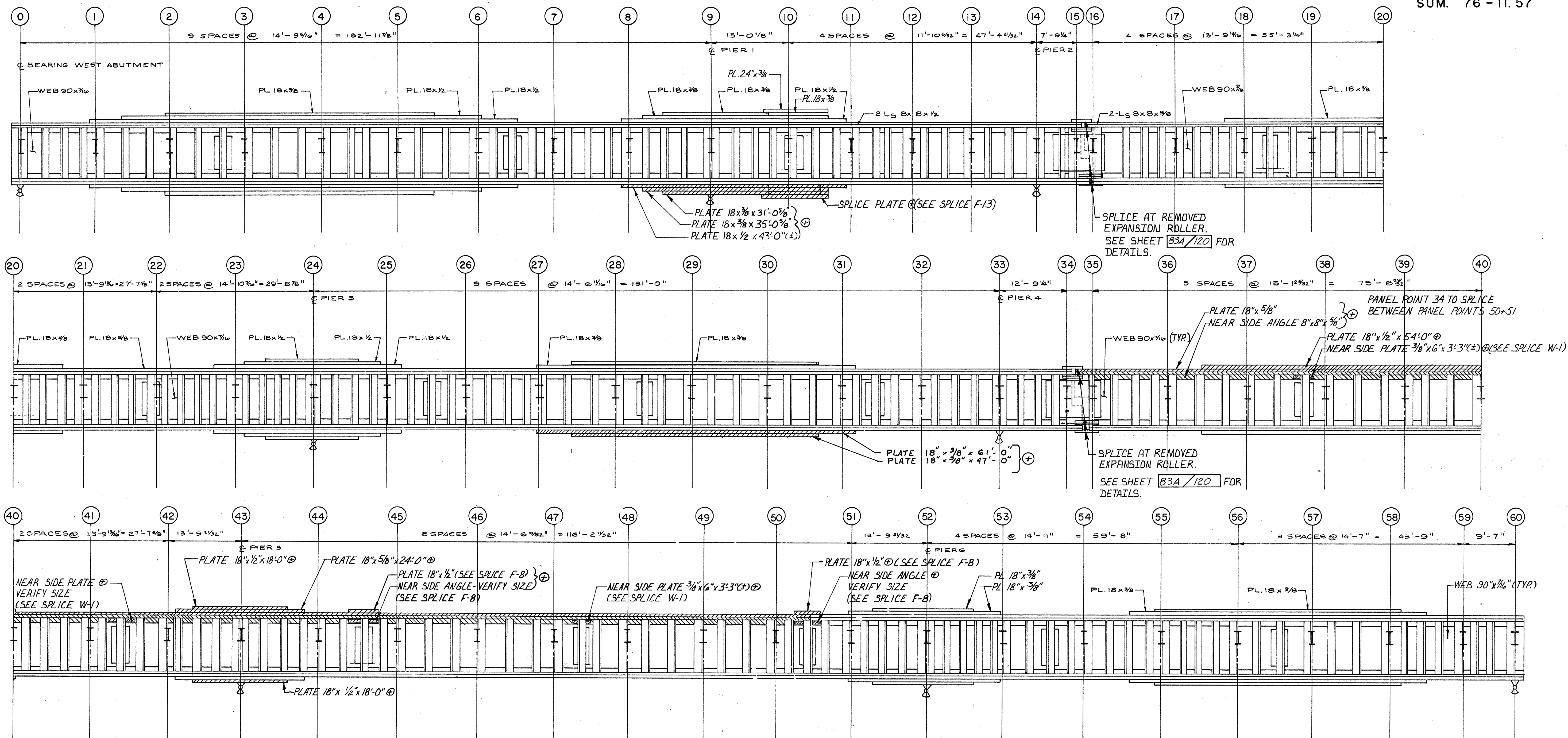
SUMMIT COUNTY
SUM. 76 - 11.57



NOTES

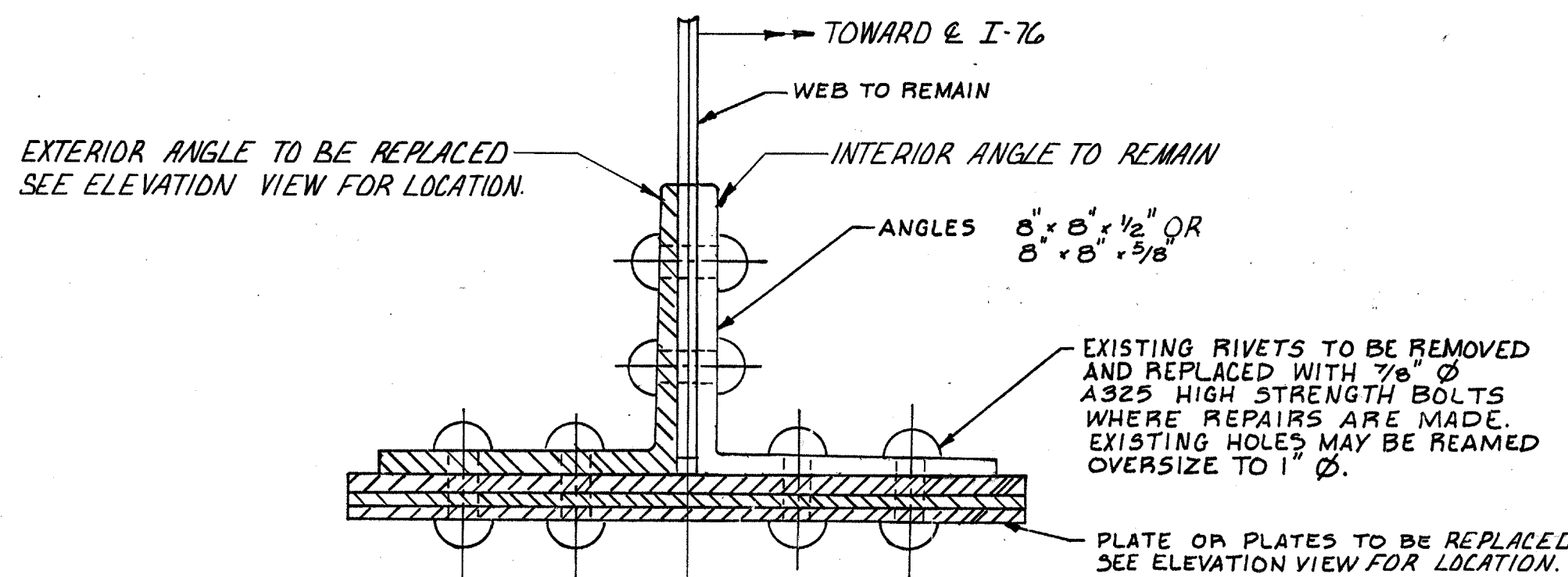
- FOR TYPICAL FLANGE DETAIL AND NOTES SEE SHEET 85/120
- FOR LEGEND SEE SHEET 85/120

McCoy Associates Inc. 84/120 CONSULTING ENGINEERS AKRON, OHIO						
GIRDER REPAIRS GIRDER F						
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT						
DESIGNED JBH	DRAWN JBH	TRACED	CHECKED T.E.N.	REVIEWED JBH	DATE 3-31-89	REVISED

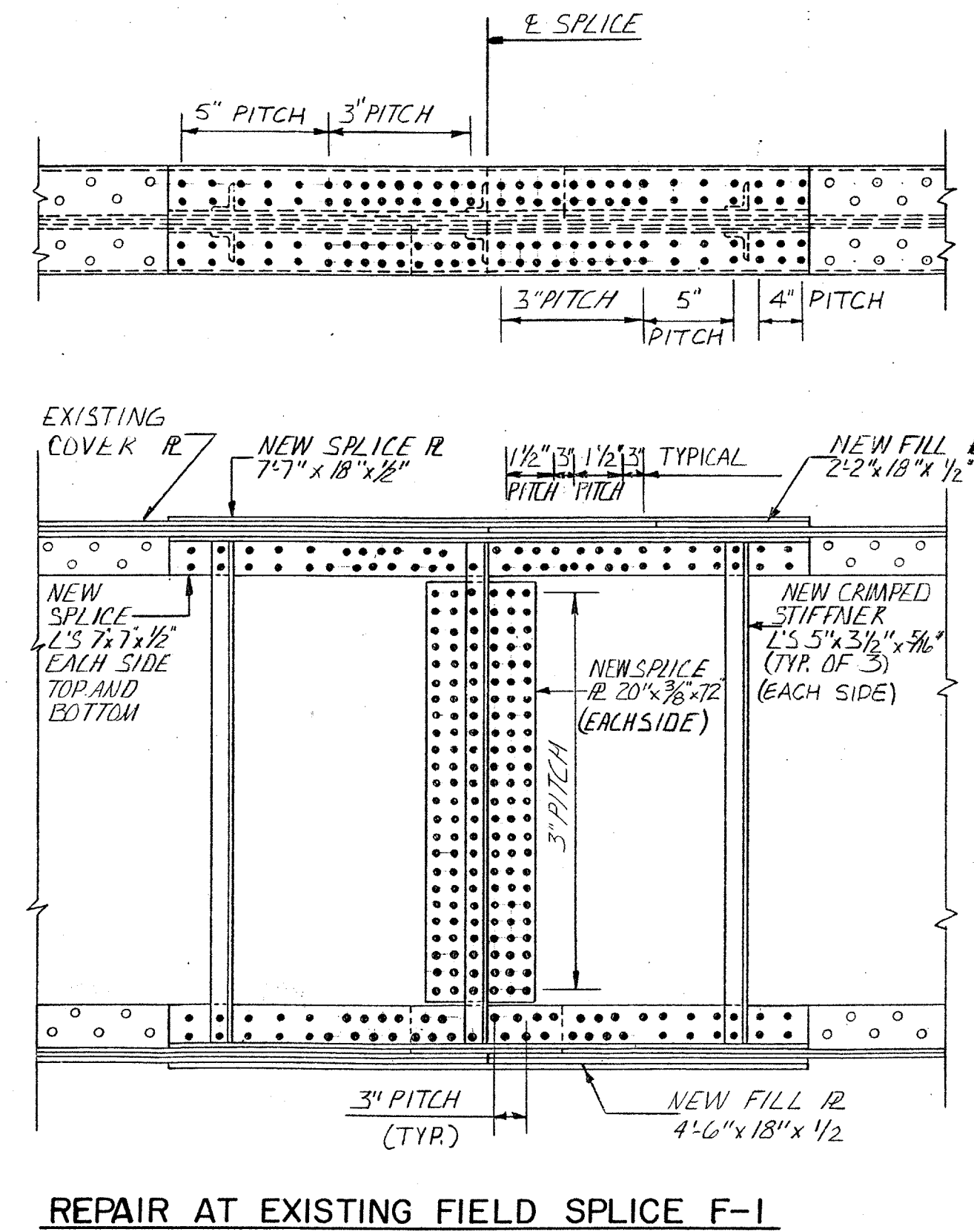
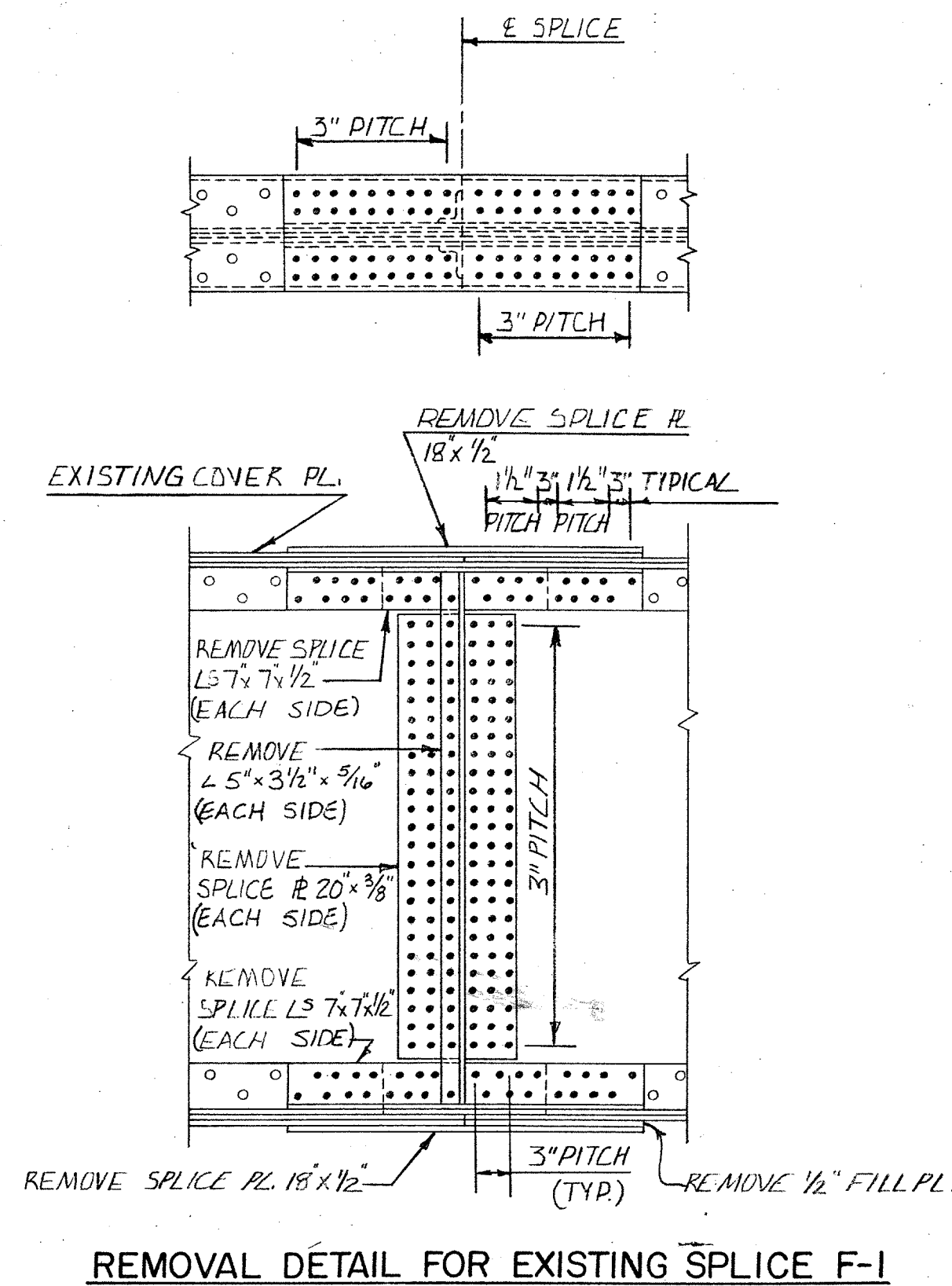
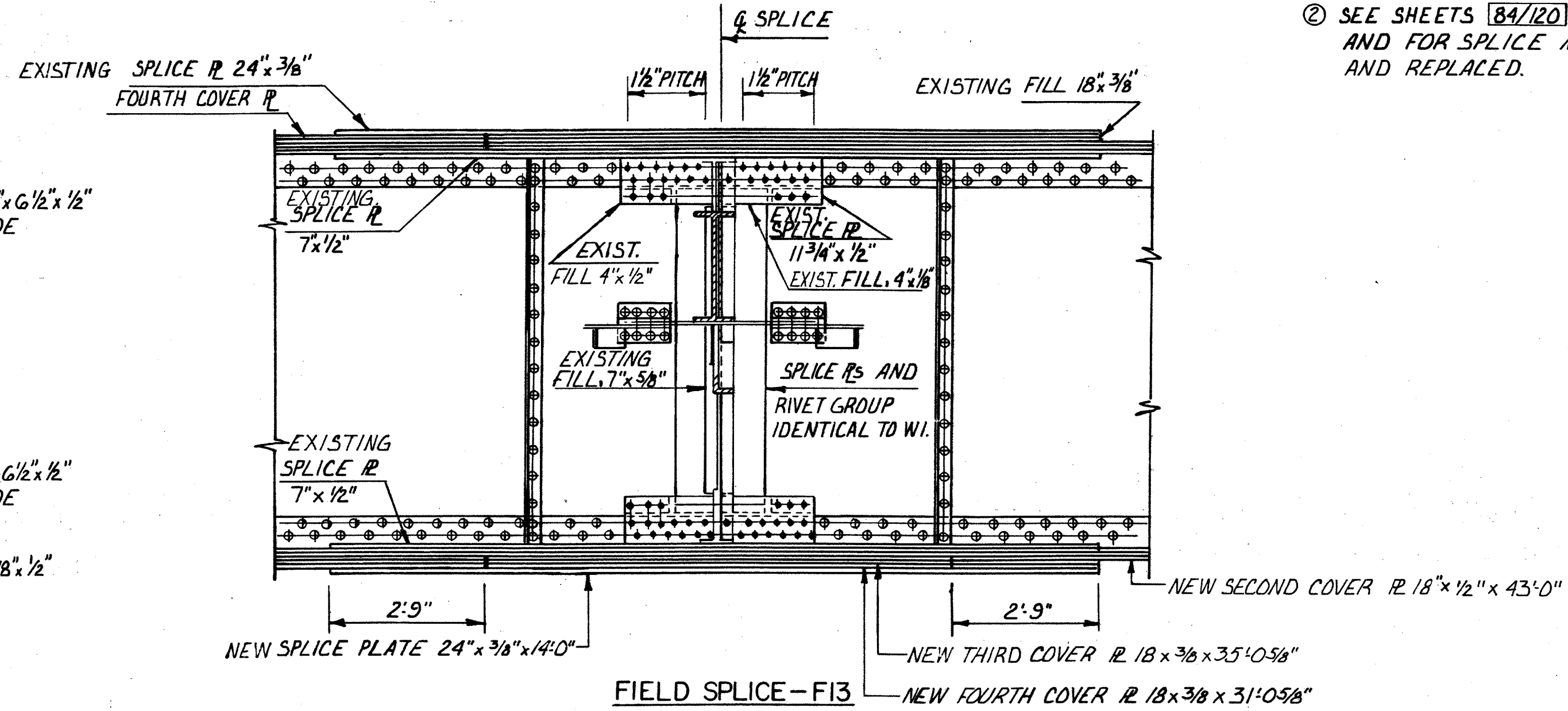
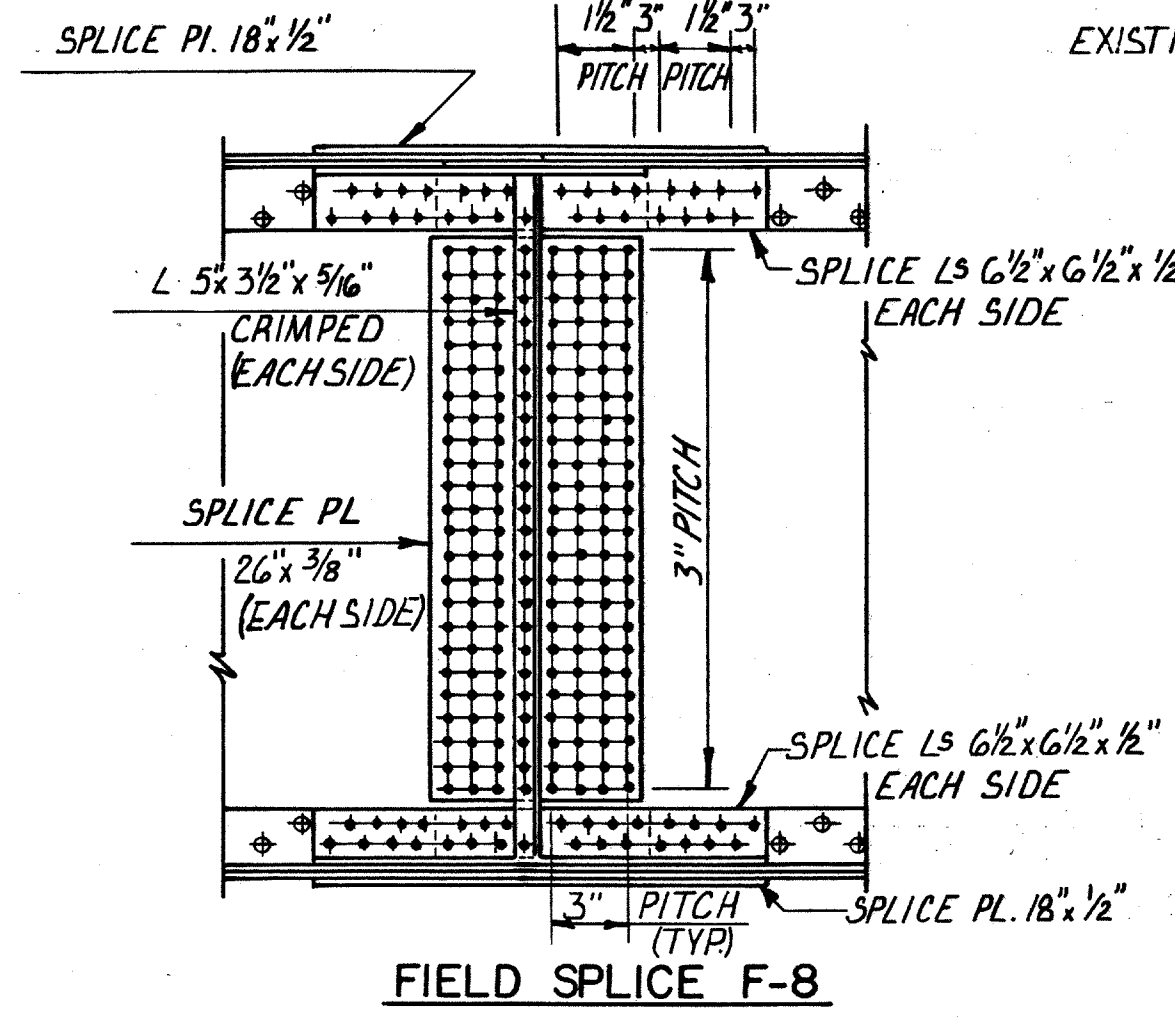
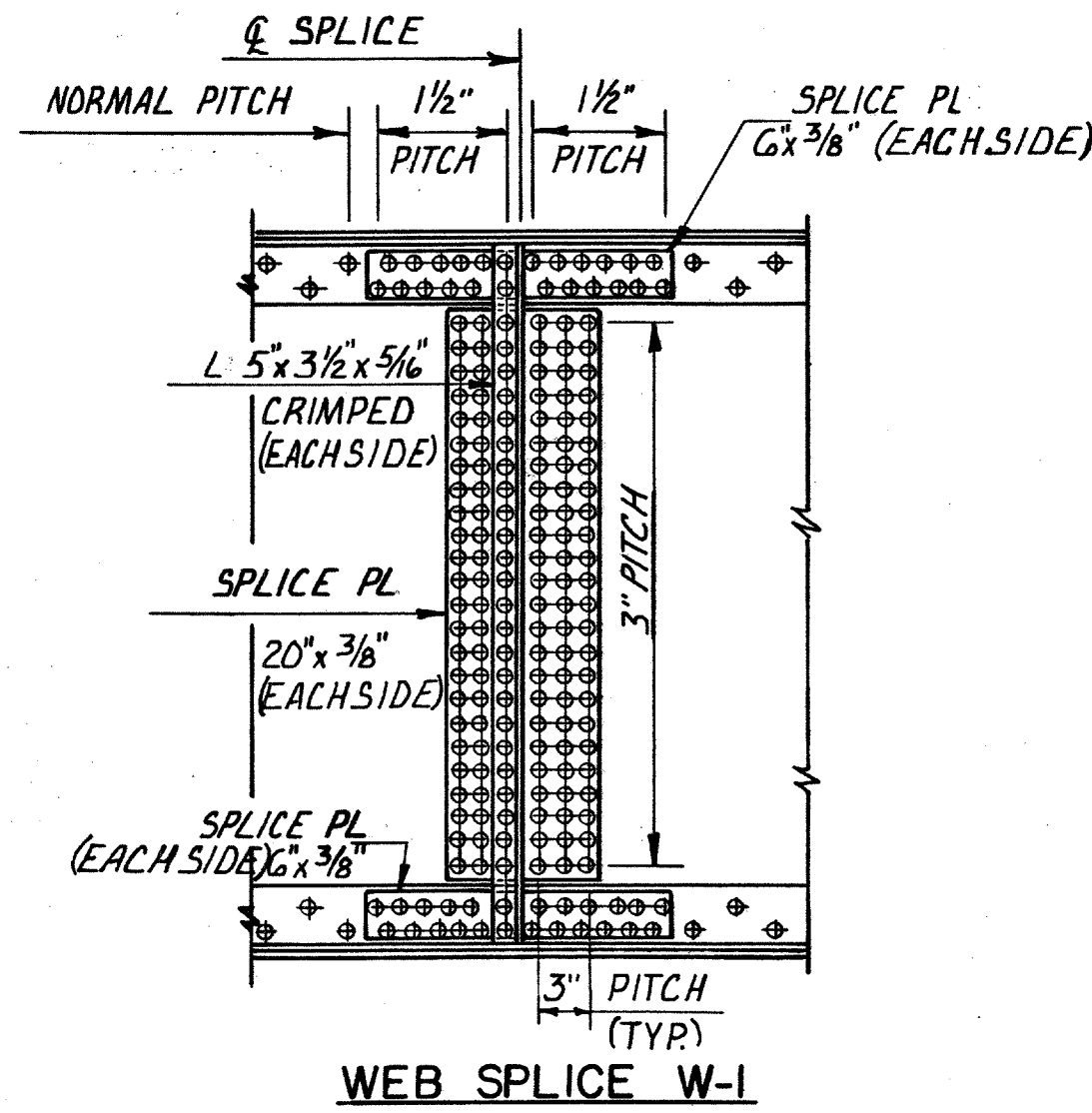
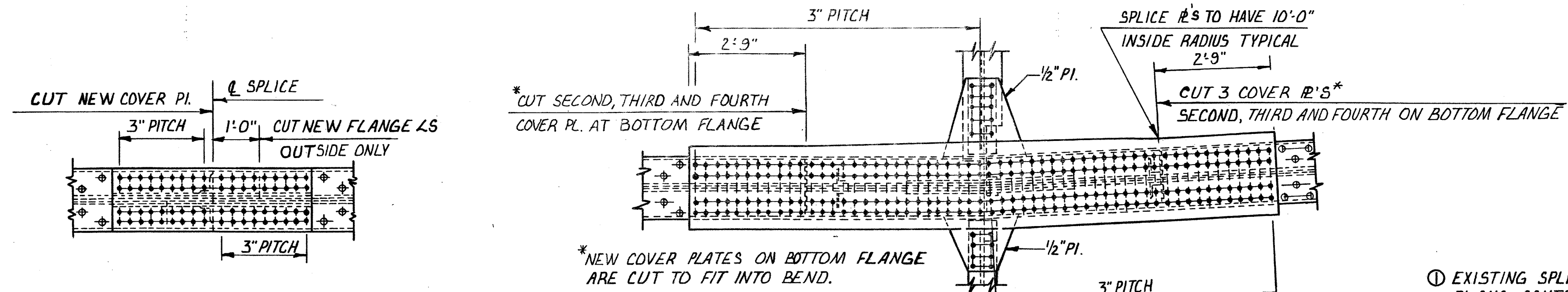


NOTES

- ⊕ - PLATES OR ANGLES TO BE REMOVED AND REPLACED.
- ⊙ - INDICATES PANEL POINT, FROM AS-BUILT DRAWINGS.
- NEW STEEL SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 513, STRUCTURAL STEEL (AISC CATEGORY I), AS PER PLAN. PAINTING OF NEW STEEL SHALL BE PAID UNDER ITEM SPECIAL PAINTING OF NEW STEEL, SYSTEM IZEU, AS PER PLAN (INCLUDING PRIME COAT, INTERMEDIATE COAT AND FINISH COAT.)
- CONTRACTOR SHALL SUBMIT DETAILED PLANS AND PROCEDURES FOR SUPPORT OF GIRDERS AND OTHER MEMBERS TO REMAIN DURING REMOVAL AND REPAIR OPERATIONS FOR APPROVAL BY THE ENGINEER BEFORE COMMENCING ANY REPAIR OPERATIONS.
- REMOVAL OF EXISTING STEEL AND EXISTING RIVETS SHALL BE INCLUDED WITH ITEM 202 - PORTIONS OF STRUCTURES REMOVED FOR PAYMENT. (SEE GENERAL NOTES PAGE 5B/120)
- PAYMENT FOR NEW BOLTS TO CONNECT NEW STEEL TO EXISTING STEEL SHALL BE INCLUDED AS INCIDENTAL TO ITEM 513, STRUCTURAL STEEL (AISC CATEGORY 1); AS PER PLAN.
- FOR ADDITIONAL DETAILS SEE SHEET 85A/120



McCOY ASSOCIATES INC. 85/120 CONSULTING ENGINEERS AKRON, OHIO						
GIRDER REPAIRS GIRDER L BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	JBH		T.E.U.	JBH	3-31-89	



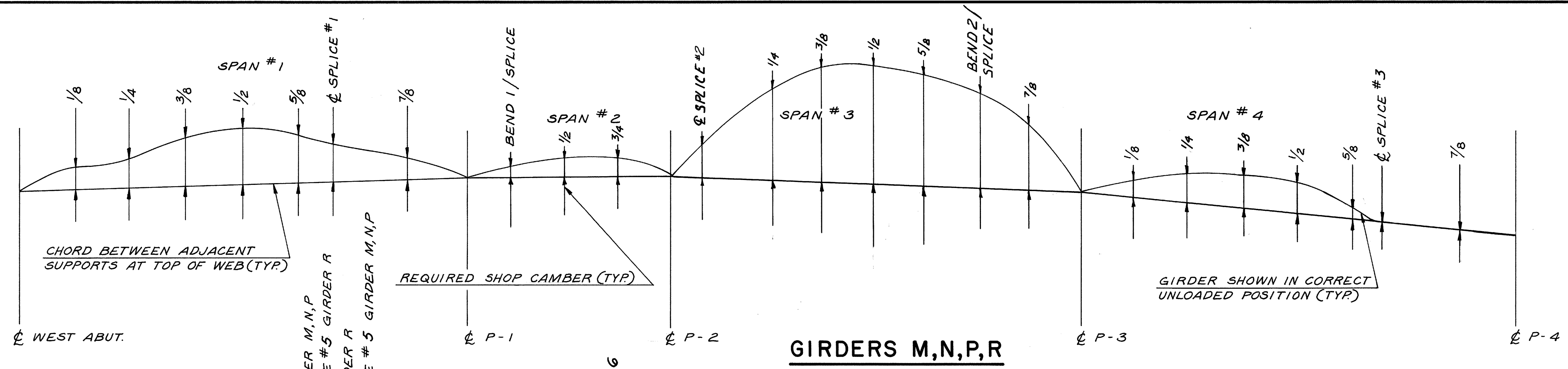
NOTES

- EXISTING SPLICES W-1, F-8 AND F-13 SHOWN FROM AS-BUILT PLANS, CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LENGTHS OF PLATES AND ANGLES TO BE REPLACED.
- SEE SHEETS 84/120 AND 85/120 FOR LOCATION OF SPLICES AND FOR SPLICE MEMBERS THAT ARE TO BE REMOVED AND REPLACED.

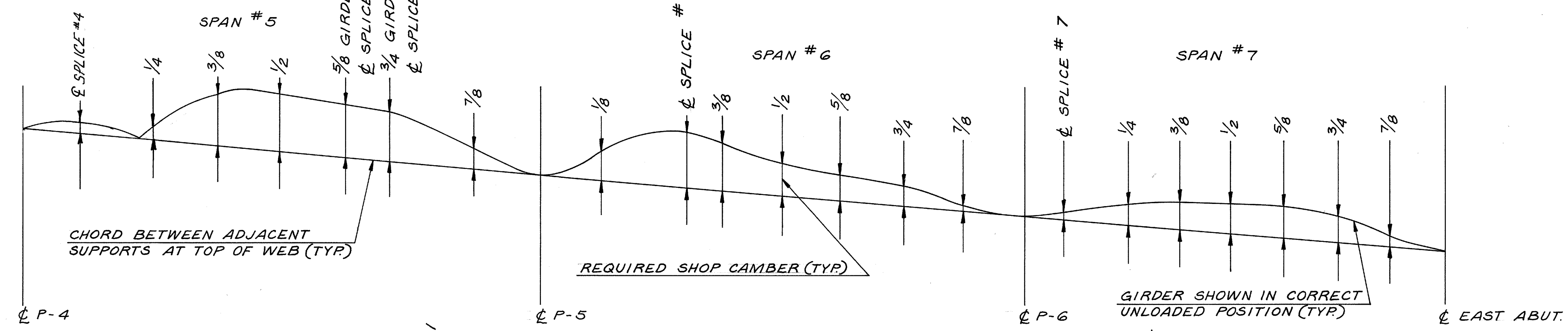
McCOY ASSOCIATES INC. 85A/120
CONSULTING ENGINEERS
AKRON, OHIO

**GIRDER REPAIR
SPLICE DETAILS**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

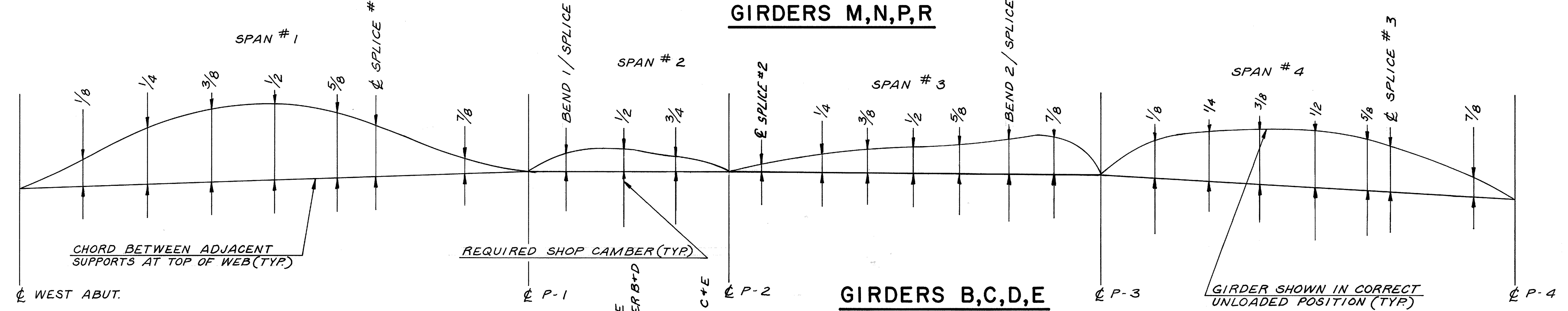
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	JWD		JGC	JBH	7-19-90	



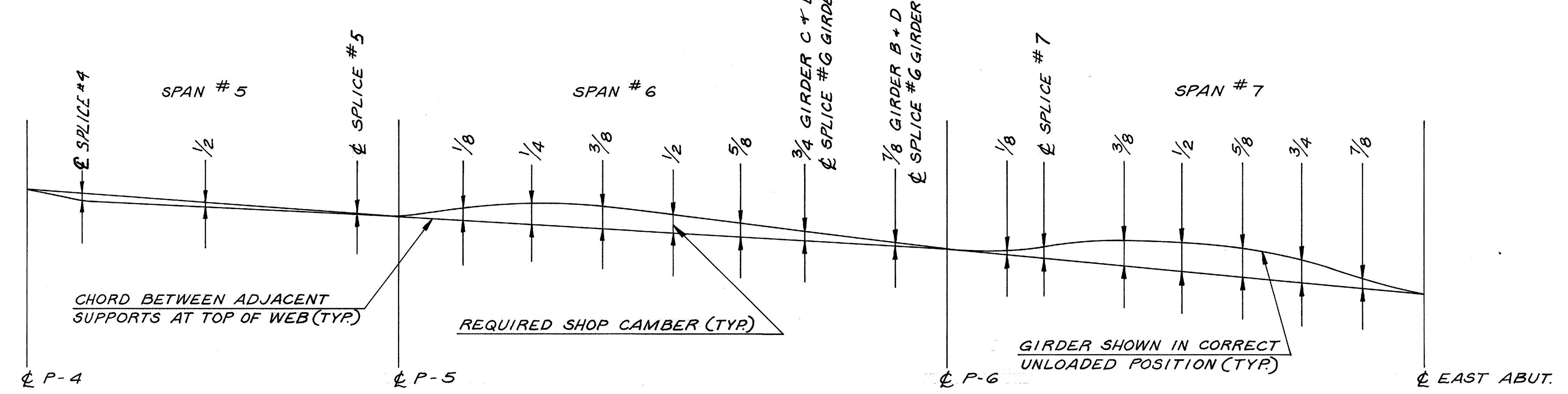
GIRDERS M, N, P, R



GIRDERS M, N, P, R



GIRDERS B, C, D, E



GIRDERS B, C, D, E

NOTES

- ① FOR FRAMING PLANS AND GIRDER DETAILS, SEE SHEETS 62/120 THRU 82/120
- ② A POSITIVE CAMBER VALUE MEANS THE CAMBER ABOVE AND A NEGATIVE CAMBER MEANS THE CAMBER BELOW THE CHORD BETWEEN ADJACENT SUPPORTS
- ③ FOR DEFLECTION AND CAMBER TABLES SEE SHEETS 88/120 THRU 90/120

McCOY ASSOCIATES INC. 86/120
CONSULTING ENGINEERS
AKRON, OHIO

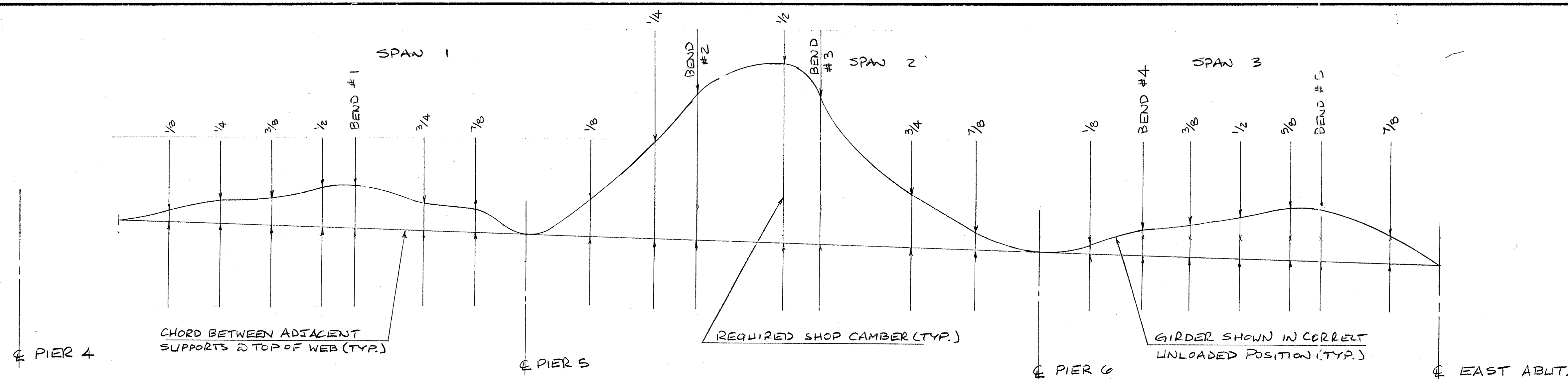
CAMBER DIAGRAMS
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SMS	GJ		JMH	JBH	3-31-87	

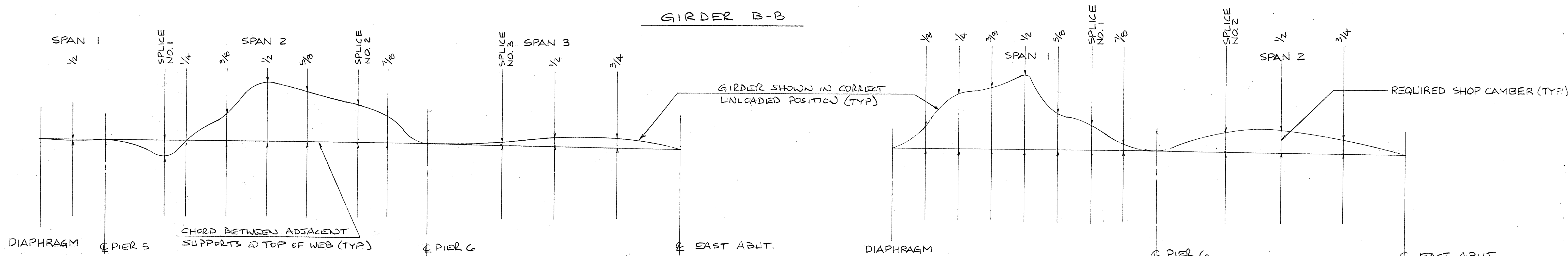
FHWA REGION	STATE	PROJECT
5	OHIO	

1036
1214

SUMMIT COUNTY
SUM 76-II.57

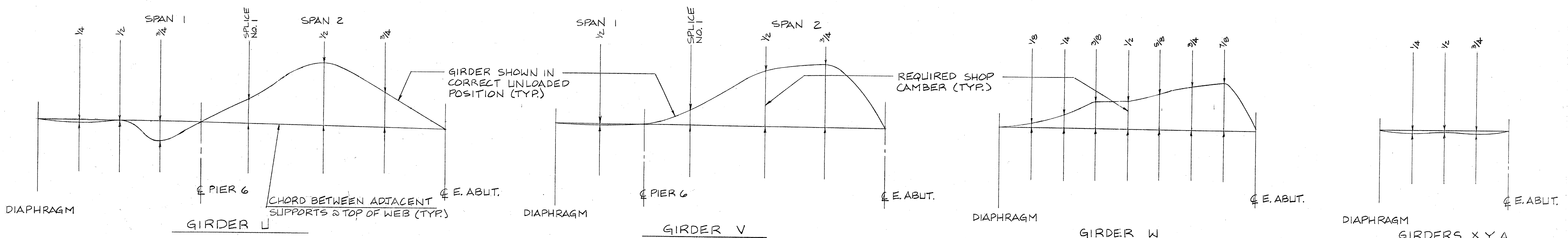


GIRDER B-B



GIRDER S

GIRDER T

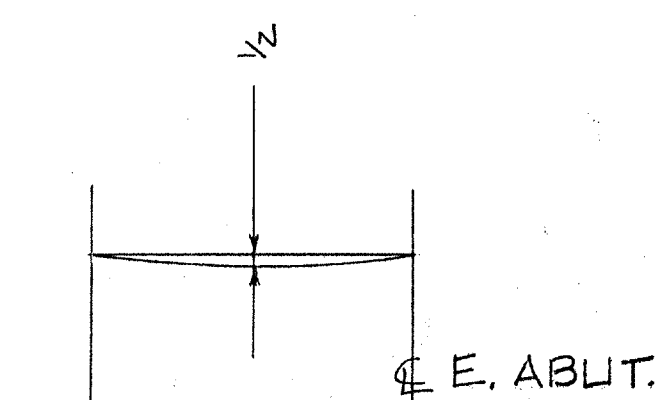


GIRDER U

GIRDER V

GIRDER W

GIRDERS X,Y,A



GIRDERS Z, A-A

NOTES

1. FOR NOTES SEE SHEET 86/120

McCOY ASSOCIATES INC. 87/120
CONSULTING ENGINEERS
AKRON, OHIO

CAMBER DIAGRAMS

BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.G.S.	R.A.K.		R.A.K.	JBH	3-21-89	

GIRDER B					GIRDER C					GIRDER D					GIRDER E				
LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER
WEST ABUT.					WEST ABUT.					WEST ABUT.					WEST ABUT.				
1/8 POINT	7/16"	13/16"	-1/4"	1"	1/8 POINT	3/8"	13/16"	-1/8"	1 1/8"	1/8 POINT	5/16"	1/16"	-	1"	1/8 POINT	1/4"	3/16"	-1/8"	1/16"
1/4 POINT	11/16"	1 3/8"	-1/4"	1 13/16"	1/4 POINT	5/8"	1 1/16"	-1/8"	1 9/16"	1/4 POINT	1/2"	1 3/16"	-1/4"	1 1/16"	1/4 POINT	3/16"	1"	-1/4"	1 3/16"
3/8 POINT	7/8"	1 11/16"	-3/8"	2 3/16"	3/8 POINT	1 1/16"	1 13/16"	-1/4"	2 3/8"	3/8 POINT	5/8"	1 1/2"	-1/8"	2"	3/8 POINT	3/16"	1 1/4"	-3/8"	1 7/16"
1/2 POINT	7/8"	1 3/4"	-1/4"	2 3/8"	1/2 POINT	1 3/16"	1 7/8"	-3/8"	2 3/4"	1/2 POINT	1 1/8"	1 9/16"	-1/4"	1 13/16"	1/2 POINT	3/16"	1 3/16"	-1/4"	1 3/8"
5/8 POINT	3/4"	1 1/2"	-1/4"	2"	5/8 POINT	1 1/16"	1 5/8"	-3/8"	1 9/16"	5/8 POINT	9/16"	1 3/8"	-1/8"	1 13/16"	5/8 POINT	1/2"	1 1/8"	-1/8"	1 1/2"
SPLICE NO. 1	5/8"	1 1/4"	-1/4"	1 5/8"	SPLICE NO. 1	5/8"	1 1/16"	-7/16"	1 5/8"	SPLICE NO. 1	1/2"	1 1/8"	-1/8"	1 1/2"	SPLICE NO. 1	3/8"	1 1/16"	-3/8"	1 1/2"
7/8 POINT	1/4"	7/16"	-1/8"	3/16"	7/8 POINT	1/4"	1/2"	-1/8"	5/8"	7/8 POINT	3/16"	3/8"	-1/8"	7/16"	7/8 POINT	1/8"	3/8"	-	1/2"
PIER 1					PIER 1					PIER 1					PIER 1				
BEND 1/SPL.	-1/16"	-1/8"	3/8"	3/16"	BEND 1/SPL.	-1/16"	-3/16"	3/8"	1/8"	BEND 1/SPL.	-1/16"	-3/16"	1/2"	1/4"	BEND 1/SPL.	-1/16"	-1/8"	1/2"	5/16"
1/2 POINT	-1/8"	-1/4"	5/8"	1/4"	1/2 POINT	-1/8"	-1/4"	1/2"	1/8"	1/2 POINT	-1/8"	-1/4"	5/8"	1/4"	1/2 POINT	-1/16"	-3/16"	3/8"	1/8"
3/4 POINT	-1/16"	-3/16"	1/2"	1/4"	3/4 POINT	-1/16"	-3/16"	3/8"	1/8"	3/4 POINT	-1/16"	-3/16"	1/2"	1/4"	3/4 POINT	-1/16"	-1/8"	3/8"	3/16"
PIER 2					PIER 2					PIER 2					PIER 2				
SPLICE NO. 2	1/16"	1/8"	1/8"	5/16"	SPLICE NO. 2	1/16"	1/8"	1/8"	5/16"	SPLICE NO. 2	1/16"	1/8"	1/8"	5/16"	SPLICE NO. 2	1/16"	1/8"	1/4"	7/16"
1/4 POINT	3/16"	3/8"	-1/8"	7/16"	1/4 POINT	3/16"	7/16"	-	5/8"	1/4 POINT	1/8"	3/8"	1/4"	3/4"	1/4 POINT	1/8"	3/8"	1/2"	1"
3/8 POINT	3/16"	1/2"	-5/8"	-	3/8 POINT	3/16"	1/2"	-3/8"	5/16"	3/8 POINT	3/16"	1/2"	1/8"	3/16"	3/8 POINT	3/16"	1/2"	1/2"	1 1/8"
1/2 POINT	3/16"	7/16"	1/8"	3/4"	1/2 POINT	3/16"	1/2"	-1/4"	13/16"	1/2 POINT	3/16"	1/2"	1/2"	1 3/16"	1/2 POINT	3/16"	7/16"	3/4"	1 3/8"
5/8 POINT	3/16"	3/8"	1/2"	1 1/16"	5/8 POINT	3/16"	3/8"	5/8"	1 3/16"	5/8 POINT	1/8"	3/8"	1/8"	1 3/8"	5/8 POINT	1/8"	3/8"	1 1/16"	1 9/16"
BEND 2/SPL.	1/8"	1/4"	5/8"	1"	BEND 2/SPL.	1/8"	1/4"	3/4"	1 1/8"	BEND 2/SPL.	1/16"	3/16"	1/8"	1 1/8"	BEND 2/SPL.	1/16"	3/16"	1"	1 1/4"
7/8 POINT	-	1/16"	1/2"	3/16"	7/8 POINT	1/16"	1/16"	3/8"	1/2"	7/8 POINT	1/16"	1/16"	1/2"	5/8"	7/8 POINT	-	1/16"	5/8"	1 1/16"
PIER 3					PIER 3					PIER 3					PIER 3				
1/8 POINT	1/16"	1/8"	1 3/16"	1 3/8"	1/8 POINT	-	1/8"	1 1/16"	1 3/16"	1/8 POINT	-	1/8"	1"	1 1/8"	1/8 POINT	1/16"	1/8"	1 3/16"	1"
1/4 POINT	1/8"	3/16"	1 13/16"	2 3/8"	1/4 POINT	1/8"	3/16"	1 13/16"	2 1/4"	1/4 POINT	1/8"	3/16"	1 1/16"	1 7/8"	1/4 POINT	1/8"	3/8"	1 3/16"	1 13/16"
3/8 POINT	3/16"	1/2"	2 3/4"	2 3/4"	3/8 POINT	3/16"	2 3/16"	2 3/16"	2 3/4"	3/8 POINT	3/16"	2 3/16"	1 5/16"	2 1/16"	3/8 POINT	3/16"	1 7/16"	2 3/16"	2 3/4"
1/2 POINT	1/4"	5/8"	2 1/4"	3 1/8"	1/2 POINT	3/16"	1 1/8"	1 1/16"	1 5/16"	1/2 POINT	3/8"	1 1/2"	1 7/16"	2 1/2"	1/2 POINT	1/4"	1 1/16"	1 5/16"	1 7/8"
5/8 POINT	1/4"	3/16"	1 15/16"	2 3/4"	5/8 POINT	3/16"	3/8"	1 3/16"	2 1/16"	5/8 POINT	3/16"	1 1/16"	1 1/16"	1 5/16"	5/8 POINT	3/16"	1 1/16"	3/4"	1 9/8"
SPLICE NO. 3	3/16"	1/2"	1 1/16"	1 3/4"	SPLICE NO. 3	3/16"	1 3/16"	1 1/16"	1 1/16"	SPLICE NO. 3	3/16"	1 3/16"	3/4"	1 1/2"	SPLICE NO. 3	3/16"	3/16"	3/4"	1 1/2"
7/8 POINT	1/16"	3/16"	1/2"	3/4"	7/8 POINT	1/16"	1/4"	3/8"	1 1/16"	7/8 POINT	1/16"	1/4"	3/8"	1 1/16"	7/8 POINT	1/16"	1/4"	1/2"	5/16"
PIER 4					PIER 4					PIER 4					PIER 4				
SPLICE NO. 4	-1/16"	-1/16"	-	-1/8"	SPLICE NO. 4	-	-1/16"	-	-1/16"	SPLICE NO. 4	-	-1/16"	-	-1/16"	SPLICE NO. 4	-	-1/16"	-	-1/16"
1/2 POINT	-1/16"	-1/8"	-	-3/16"	1/2 POINT	-	-1/16"	-	-1/16"	1/2 POINT	-	-1/16"	-	-1/16"	1/2 POINT	-	-1/16"	-	-1/16"
SPLICE NO. 5	-	-1/16"	-	-1/16"	SPLICE NO. 5	-	-1/16"	-	-1/16"	SPLICE NO. 5	-	-1/16"	-	-1/16"	SPLICE NO. 5	-	-1/16"	-	-1/16"
PIER 5					PIER 5					PIER 5					PIER 5				
1/8 POINT	1/16"	3/16"	-	1/4"	1/8 POINT	1/16"	3/16"	-	1/4"	1/8 POINT	1/16"	3/16"	-	1/4"	1/8 POINT	1/16"	3/16"	-	1/4"
1/4 POINT	3/16"	7/16"	-	5/8"	1/4 POINT	3/16"	7/16"	-	3/8"	1/4 POINT	1/8"	7/16"	-	9/16"	1/4 POINT	1/8"	7/16"	-	9/16"
3/8 POINT	1/4"	7/16"	-	1 1/16"	3/8 POINT	1/4"	5/8"	-	7/8"	3/8 POINT	3/16"	9/16"	-	3/4"	3/8 POINT	3/16"	9/16"	-	3/4"
1/2 POINT	1/4"	9/16"	-	1 13/16"	1/2 POINT	1/4"	5/8"	-	7/8"	1/2 POINT	1/4"	5/8"	-	7/8"	1/2 POINT	1/4"	5/8"	-	7/8"
5/8 POINT	3/16"	1/2"	-	1 11/16"	SPLICE NO. 6	1/8"	7/16"	-	9/16"	5/8 POINT	3/16"	1/2"	-	1 1/16"	SPLICE NO. 6	1/8"	3/8"	-	1/2"
SPLICE NO. 6	1/8"	1/4"	-	3/8"	SPLICE NO. 6	1/8"	5/16"	-	7/16"	SPLICE NO. 6	1/8"	7/16"	-	3/4"	SPLICE NO. 6	1/8"	5/16"	-	7/16"
7/8 POINT	1/16"	1/16"	-	1/8"	7/8 POINT	1/16"	1/8"	-	3/16"	7/8 POINT	1/16"	1/8"	-	3/16"	7/8 POINT	1/16"	1/8"	-	3/16"
PIER 6					PIER 6					PIER 6					PIER 6				
1/8 POINT	-	1/16"	-	1/16"	1/8 POINT	-	1/16"	-	1/16"	1/8 POINT	1/16"	1/16"	-	1/8"	1/8 POINT	1/16"	1/16"	-	1/8"
SPLICE NO. 7	1/16"	1/4"	-	5/16"	SPLICE NO. 7	1/8"	5/16"	-	7/16"	SPLICE NO. 7	1/8"	5/16"	-	7/16"	SPLICE NO. 7	1/8"	5/16"	-	7/16"
3/8 POINT	1/8"	3/8"	-	1 1/2"	3/8 POINT	3/16"	7/16"	-	5/8"	3/8 POINT	3/16"	7/16"	-	5/8"	3/8 POINT	3/16"	7/16"	-	5/8"
1/2 POINT	3/16"	1/2"	-	1 11/16"	1/2 POINT	3/16"	9/16"	-	3/4"	1/2 POINT	3/16"	9/16"	-	3/4"	1/2 POINT	3/16"	9/16"	-	3/4"
5/8 POINT	3/16"	1/2"	-	1 11/16"	5/8 POINT	3/16"	9/16"	-	3/4"	5/8 POINT	3/16"	9/16"	-	3/4"	5/8 POINT	3/16"	9/16"	-	3/4"
3/4 POINT	3/16"	7/16"	-	5/8"	3/4 POINT	3/16"	7/16"	-	5/8"	3/4 POINT	3/16"	7/16"	-	5/8"	3/4 POINT	3/16"	7/16"	-	5/8"
7/8 POINT	1/8"	1/4"	-	3/8"	7/8 POINT	1/8"	1/4"	-	3/8"	7/8 POINT	1/8"	1/4"	-	3/8"	7/8 POINT	1/8"	1/4"	-	3/8"
EAST ABUT.					EAST ABUT.					EAST ABUT.					EAST ABUT.				

NOTES
 ① FOR NOTES, SEE SHEET 86/120

McCOY ASSOCIATES INC. 88/120
 CONSULTING ENGINEERS
 AKRON, OHIO

DEFLECTION & CAMBER TABLES
 BRIDGE NO. SUM 76-1277
 AKRON EAST EXPRESSWAY
 WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SMS	GT		JMH	JBH	3-31-89	

GIRDER M					GIRDER N					GIRDER P					GIRDER R				
LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER
WEST ABUT.					WEST ABUT.					WEST ABUT.					WEST ABUT.				
1/8 POINT	1/4	1/16	-1/8	13/16	1/8 POINT	1/4	1/16	-1/4	11/16	1/8 POINT	1/4	1/16	1/4	13/16	1/8 POINT	5/16	3/4	1/4	13/16
1/4 POINT	3/16	1/8	-1/4	13/16	1/4 POINT	1/2	13/16	-1/4	11/16	1/4 POINT	1/2	1/4	1/4	2"	1/4 POINT	3/16	13/8	3/8	23/16
3/8 POINT	9/16	13/16	-1/4	13/16	3/8 POINT	9/16	13/16	-1/4	13/16	3/8 POINT	5/8	13/16	1/2	2 1/4	3/8 POINT	11/16	11/16	1/2	2 1/8
1/2 POINT	9/16	13/16	-1/4	13/16	1/2 POINT	3/8	13/16	-1/8	2 1/16	1/2 POINT	5/8	13/8	1/2	2 3/4	1/2 POINT	11/16	11/16	3/8	2 3/4
5/8 POINT	1/2	13/16	-1/8	13/16	5/8 POINT	1/2	13/8	-1/4	13/8	5/8 POINT	3/16	13/8	5/8	2 3/16	5/8 POINT	9/16	1/2	1/2	2 3/16
SPLICE NO. 1	7/16	13/16	-1/8	13/8	SPLICE NO. 1	7/16	13/8	-1/8	13/16	SPLICE NO. 1	7/16	13/16	1/2	2 1/8	SPLICE NO. 1	7/16	13/8	3/8	13/16
7/8 POINT	3/16	7/16	-	3/8	7/8 POINT	3/16	7/16	-	3/8	7/8 POINT	3/16	7/16	3/8	1	7/8 POINT	3/16	1/2	3/8	13/16
PIER 1					PIER 1					PIER 1					PIER 1				
BEND 1/SPL.	-1/16	-3/16	1/2	1/4	BEND 1/SPL.	-1/16	-3/16	5/8	3/8	BEND 1/SPL.	-1/16	-3/16	3/8	1/8	BEND 1/SPL.	-1/16	-3/16	3/8	1/8
1/2 POINT	-1/8	-1/4	5/8	1/4	1/2 POINT	-1/8	-1/4	3/4	3/8	1/2 POINT	-1/8	-1/4	13/16	3/16	1/2 POINT	-1/8	-1/4	1/2	-1/8
3/4 POINT	-1/16	-3/16	3/8	1/8	3/4 POINT	-1/16	-3/16	1/2	1/4	3/4 POINT	-1/16	-3/16	1/2	1/4	3/4 POINT	-1/16	-3/16	3/8	1/8
PIER 2					PIER 2					PIER 2					PIER 2				
SPLICE NO. 2	1/16	3/16	13/16	13/16	SPLICE NO. 2	1/16	3/16	13/16	11/16	SPLICE NO. 2	1/16	3/16	13/16	13/16	SPLICE NO. 2	1/16	1/8	15/16	1/8
1/4 POINT	3/16	3/16	2 3/16	2 3/16	1/4 POINT	3/16	3/16	2 1/2	3 1/4	1/4 POINT	3/16	3/16	3	3 3/4	1/4 POINT	1/4	3/8	2 7/8	3 3/4
3/8 POINT	1/4	3/4	3 1/4	4 1/4	3/8 POINT	1/4	3/4	3 1/2	4 1/2	3/8 POINT	1/4	13/16	3 13/16	4 1/8	3/8 POINT	5/16	3 13/16	4 15/16	4 15/16
1/2 POINT	1/4	3/4	3 1/8	4 1/8	1/2 POINT	1/4	3/16	3 1/4	4 1/2	1/2 POINT	1/4	13/16	3 9/8	4 3/4	1/2 POINT	3/8	3 3/4	4 15/16	4 15/16
5/8 POINT	1/4	5/8	2 3/4	3 3/8	5/8 POINT	1/4	5/8	2 3/4	3 3/8	5/8 POINT	1/4	11/16	2 7/8	3 3/4	5/8 POINT	1/4	3/4	2 3/4	3 3/4
BEND 2/SPL.	1/8	3/8	1 15/16	2 1/16	BEND 2/SPL.	1/8	3/8	2 3/16	2 1/16	BEND 2/SPL.	1/8	7/16	1 15/16	2 1/2	BEND 2/SPL.	1/8	7/16	1 15/16	2 1/2
7/8 POINT	1/16	1/8	1 3/16	13/8	7/8 POINT	1/16	1/8	1 5/16	1 1/2	7/8 POINT	1/16	3/16	1 1/16	1 3/16	7/8 POINT	1/16	3/16	1 1/16	1 3/16
PIER 3					PIER 3					PIER 3					PIER 3				
1/8 POINT	-	1/16	3/8	7/16	1/8 POINT	-	-	1/4	1/4	1/8 POINT	-	-	3/8	3/8	1/8 POINT	-	-	1/4	1/4
1/4 POINT	1/16	3/16	3/8	5/8	1/4 POINT	1/16	1/8	3/8	9/16	1/4 POINT	1/16	1/8	3/8	3/16	1/4 POINT	-	1/8	1/4	3/8
3/8 POINT	1/8	5/16	1/4	11/16	3/8 POINT	1/16	1/4	1/4	3/16	3/8 POINT	1/16	1/4	5/16	5/16	3/8 POINT	1/16	1/4	-1/8	3/16
1/2 POINT	1/8	3/8	-	1/2	1/2 POINT	1/8	5/16	-	7/16	1/2 POINT	1/8	5/16	-1/4	3/16	1/2 POINT	1/16	5/16	-1/2	-1/8
5/8 POINT	1/8	5/16	1/8	3/16	5/8 POINT	1/16	1/4	-	5/16	5/8 POINT	1/16	3/16	-1/2	-1/4	5/8 POINT	-	1/4	-5/8	-3/8
SPLICE NO. 3	1/16	1/4	-	5/16	SPLICE NO. 3	1/16	3/16	-	1/4	SPLICE NO. 3	1/16	1/8	-1/2	-1/4	SPLICE NO. 3	-	1/8	-3/4	-5/8
7/8 POINT	-	-	1/8	1/8	7/8 POINT	-	-	1/4	1/4	7/8 POINT	-	-	-5/8	-7/8	7/8 POINT	-	-	-1/2	-1/2
PIER 4					PIER 4					PIER 4					PIER 4				
SPLICE NO. 4	1/16	-3/16	5/8	3/8	SPLICE NO. 4	1/16	3/16	-1/8	1/8	SPLICE NO. 4	1/16	3/16	-3/8	-1/8	SPLICE NO. 4	1/8	3/16	-1/4	1/16
1/4 POINT	3/16	7/16	-5/8	-	1/4 POINT	3/16	1/2	-5/8	1/16	1/4 POINT	3/16	5/8	-5/8	-3/16	1/4 POINT	5/16	5/8	-5/8	5/16
3/8 POINT	1/4	11/16	-13/16	1/8	3/8 POINT	1/4	3/4	-3/4	1/4	3/8 POINT	5/16	9/16	-15/16	3/16	3/8 POINT	7/16	1 1/8	-15/16	3/8
1/2 POINT	1/4	3/4	-1 1/16	-1/16	1/2 POINT	3/16	7/8	-1 1/16	1/8	1/2 POINT	3/8	1	-1 1/16	5/16	1/2 POINT	7/16	1	-15/16	1/2
5/8 POINT	1/4	11/16	-3/4	3/16	5/8 POINT	1/4	3/4	-13/16	3/16	5/8 POINT	5/16	7/8	-13/16	3/8	5/8 POINT	1/16	7/8	13/16	7/8
SPLICE NO. 5	3/16	1/2	-5/8	1/16	SPLICE NO. 5	3/16	5/8	-3/4	1/16	SPLICE NO. 5	1/4	3/4	-5/8	3/8	SPLICE NO. 5	3/16	3/4	5/8	1/4
7/8 POINT	1/16	3/16	-1/4	-	7/8 POINT	1/16	3/16	-1/4	-	7/8 POINT	1/16	1/4	-3/8	-	7/8 POINT	1/8	1/4	1/4	1/8
PIER 5					PIER 5					PIER 5					PIER 5				
1/8 POINT	-	-	-	-	1/8 POINT	-	-	-1/4	-1/4	1/8 POINT	-	-	-5/8	-5/8	1/8 POINT	-	-	-13/16	-13/16
SPLICE NO. 6	1/16	3/16	-	1/4	SPLICE NO. 6	1/16	1/4	-1/4	-1/16	SPLICE NO. 6	1/16	3/16	-1/4	-	SPLICE NO. 6	1/16	1/4	-1/2	-3/16
3/8 POINT	1/16	1/4	-	5/16	3/8 POINT	1/8	3/16	-1/8	3/16	3/8 POINT	1/16	1/4	-	5/16	3/8 POINT	1/16	5/16	2 3/16	2 9/16
1/2 POINT	1/8	3/16	1/8	3/16	1/2 POINT	1/8	3/8	1/2	1"	1/2 POINT	1/8	3/8	1 13/16	2 3/16	1/2 POINT	1/8	7/16	1 5/16	2 1/2
5/8 POINT	1/16	1/4	1/8	3/16	5/8 POINT	1/8	5/16	13/16	1 1/4	5/8 POINT	1/8	5/16	1 1/16	2 1/8	5/8 POINT	1/16	3/8	2 3/8	2 3/16
3/4 POINT	1/16	1/8	1/8	5/16	3/4 POINT	1/16	5/16	5/8	7/8	3/4 POINT	1/16	3/16	1 1/16	1 5/16	3/4 POINT	1/16	1/4	1 1/16	2
7/8 POINT	-	-	-	-	7/8 POINT	-	1/16	1/4	9/16	7/8 POINT	-	1/16	5/8	11/16	7/8 POINT	-	1/16	-	1/16
PIER 6					PIER 6					PIER 6					PIER 6				
SPLICE NO. 7	-	1/16	-1/8	-1/16	SPLICE NO. 7	-	1/16	3/8	7/16	SPLICE NO. 7	-	1/8	-	1/8	SPLICE NO. 7	-	1/16	-	1/16
1/4 POINT	1/8	3/8	-1/4	1/4	1/4 POINT	1/8	3/16	-1/4	3/16	1/4 POINT	1/8	5/16	-1/8	3/16	1/4 POINT	1/8	1/4	-1/2	-1/8
3/8 POINT	3/16	3/16	-1/4	1/2	3/8 POINT	3/16	3/16	-1/4	1/2	3/8 POINT	3/16	1/2	-1/4	7/16	3/8 POINT	3/16	7/16	-3/4	-1/8
1/2 POINT	1/4	11/16	-3/8	3/16	1/2 POINT	1/4	11/16	-3/8	3/16	1/2 POINT	3/16	5/8	-3/8	3/16	1/2 POINT	3/16	3/16	-5/8	1/8
5/8 POINT	1/4	11/16	-3/8	3/16	5/8 POINT	1/4	11/16	-1/2	3/16	5/8 POINT	3/16	5/8	-3/8	3/8	5/8 POINT	3/16	3/16	-1/2	1/4
3/4 POINT	3/16	3/16	-3/8	3/8	3/4 POINT	3/16	3/16	-3/8	3/8	3/4 POINT	3/16	1/2	-3/8	3/16	3/4 POINT	3/16	1/2	-1/2	3/16
7/8 POINT	1/8	3/16	-1/4	3/16	7/8 POINT	1/8	5/16	-1/4	3/16	7/8 POINT	1/8	5/16	-1/4	3/16	7/8 POINT	1/16	1/4	-1/4	1/16
EAST ABUT.					EAST ABUT.					EAST ABUT.					EAST ABUT.				

NOTES

- ① FOR NOTES, SEE SHEET 86/120
- ② ALL DIMENSIONS ARE IN INCHES

McCOY ASSOCIATES INC. 89/120
CONSULTING ENGINEERS
AKRON, OHIO

DEFLECTION & CAMBER TABLES
BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SMS	GT		JMH	JBH	3-31-89	

SUMMIT COUNTY
SUM 76-11.57

LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER	LOCATION	DEFLECTION DUE TO WT. OF STEEL	DEFLECTION DUE TO RE-MAINING DL	ADJ. REQ'D FOR CURVATURE	REQ'D SHOP CAMBER
GIRDER A					GIRDER U					GIRDER Y					GIRDER B-B				
DIAPHRAGM					GIRDER B-B					GIRDER B-B					DIAPHRAGM				
1/4 PT.	-	-	0		1/4 PT.	0	0	-1/8"	-1/8"	1/4 PT.	0	1/16"	-1/4"	-3/16"	1/8 PT.	1/16"	5/16"	0	3/8"
1/2 PT.	-	-	0		1/2 PT.	0	0	0	0	1/2 PT.	1/16"	1/8"	-3/8"	-3/16"	1/4 PT.	1/8"	1/2"	1/8"	3/4"
3/4 PT.	-	-	-1/8"		3/4 PT.	0	-1/16"	-3/4"	-13/16"	3/4 PT.	0	1/8"	-1/8"	0	3/8 PT.	1/8"	1/2"	1/4"	1/8"
EAST ABUT.					PIER G					EAST ABUT.					1/2 PT.	1/8"	3/8"	3/4"	1/4"
GIRDER S					GIRDER Z					GIRDER B-B									
DIAPHRAM					SPLICE	1/16"	5/16"	5/8"	1"	GIRDER B-B					PIER 5				
1/2 PT.	0	-1/16"	0	-1/16"	1/2 PT.	3/16"	3/4"	1 1/16"	2 5/8"	1/2 PT.	0	0	-1/8"	-1/8"	1/8 PT.	1/8"	9/16"	1/2"	13/16"
PIER 5					3/4 PT.	3/16"	5/8"	5/8"	1 1/16"	EAST ABUT.					1/4 PT.	5/16"	13/16"	1 5/16"	3 1/16"
GIRDER V					GIRDER A-A					GIRDER B-B									
SPLICE	1/8"	3/8"	-15/16"	-1 1/16"	GIRDER B-B					GIRDER B-B					PIER G				
1/4 PT.	3/16"	9/16"	-3/4"	0	1/2 PT.	0	-1/16"	0	-1/16"	1/2 PT.	0	0	0	0	1/8 PT.	1/16"	1/8"	1/16"	1/2"
3/8 PT.	1/4"	13/16"	1/8"	13/16"	PIER G					EAST ABUT.					BEND	3/16"	3/8"	1/4"	13/16"
1/2 PT.	1/4"	1 1/8"	1 1/16"	2 9/16"	PIER G					1/2 PT.	0	0	0	0	3/8 PT.	1/4"	5/8"	1/8"	1"
5/8 PT.	1/4"	3/4"	13/16"	2 3/16"	SPLICE	1/8"	5/16"	1/4"	5/8"	1/2 PT.	0	0	0	0	1/2 PT.	1/16"	1/8"	1/16"	1/2"
SPLICE	1/8"	1/16"	1 1/4"	1 5/8"	1/2 PT.	3/16"	3/4"	1 1/16"	2 3/8"	EAST ABUT.					3/8 PT.	1/4"	5/8"	1/8"	1"
1/8 PT.	1/16"	3/16"	15/16"	13/16"	3/4 PT.	3/16"	9/16"	1 5/16"	2 1/16"	1/2 PT.	0	0	0	0	1/2 PT.	3/16"	13/16"	13/16"	1 1/16"
PIER G					EAST ABUT.					PIER G					1/2 PT.	1/16"	1/8"	1/16"	1/2"
SPLICE	1/16"	1/4"	-1/4"	1/16"	EAST ABUT.					BEND					BEND	5/16"	3/4"	9/16"	1 5/8"
1/2 PT.	1/8"	1/16"	-1/4"	9/16"	GIRDER W					GIRDER B-B									
3/4 PT.	1/8"	3/8"	-1/8"	3/8"	GIRDER W					GIRDER B-B									
EAST ABUT.					GIRDER W					GIRDER B-B									
GIRDER T					GIRDER X					GIRDER B-B									
GIRDER B-B					1/8 PT.	1/8"	7/16"	-3/8"	3/16"	1/8 PT.					1/8 PT.	1/16"	1/8"	1/16"	1/2"
1/8 PT.	1/8"	5/16"	1/2"	13/16"	1/4 PT.	5/16"	3/4"	-1/2"	9/16"	1/4 PT.					1/4 PT.	5/16"	13/16"	1 5/16"	3 1/16"
1/4 PT.	3/16"	5/8"	1 9/16"	2 3/8"	3/8 PT.	3/8"	1"	-1/4"	1 1/8"	3/8 PT.					3/8 PT.	1/4"	5/8"	1/8"	1"
3/8 PT.	3/16"	3/4"	1 1/16"	2 5/8"	1/2 PT.	3/8"	1 1/16"	-1/4"	1 3/16"	1/2 PT.					1/2 PT.	3/8"	13/16"	1/8"	1 5/16"
1/2 PT.	3/16"	1 1/16"	1 5/16"	3 3/16"	3/4 PT.	1/4"	3/4"	13/16"	1 13/16"	3/4 PT.					3/4 PT.	1/4"	5/8"	1/8"	1"
5/8 PT.	3/16"	9/16"	13/16"	1 9/16"	1/8 PT.	1/8"	7/16"	1 1/16"	2"	EAST ABUT.					1/2 PT.	1/16"	1/8"	1/16"	1/2"
SPLICE	1/8"	5/16"	5/8"	1 1/16"	EAST ABUT.					PIER G					1/2 PT.	1/16"	1/8"	1/16"	1/2"
1/8 PT.	0	1/2"	1/8"	1/4"	GIRDER X					GIRDER B-B									
PIER G					GIRDER X					GIRDER B-B									
SPLICE	1/16"	1/4"	1/2"	13/16"	1/4 PT.	1/16"	5/16"	-1/2"	-1/8"	1/4 PT.					1/2 PT.	1/16"	1/8"	1/16"	1/2"
1/2 PT.	1/8"	1/16"	3/8"	9/16"	1/2 PT.	1/8"	7/16"	-5/8"	-1/16"	1/2 PT.					3/4 PT.	1/16"	5/16"	-1/2"	-1/8"
3/4 PT.	1/8"	1/16"	0	9/16"	3/4 PT.	1/16"	5/16"	-1/2"	-1/8"	3/4 PT.					EAST ABUT.				
EAST ABUT.					EAST ABUT.					EAST ABUT.					EAST ABUT.				

NOTES

① FOR NOTES, SEE SHEET 86/120

McCOY ASSOCIATES, INC. 90/120
CONSULTING ENGINEERS
AKRON, OHIO

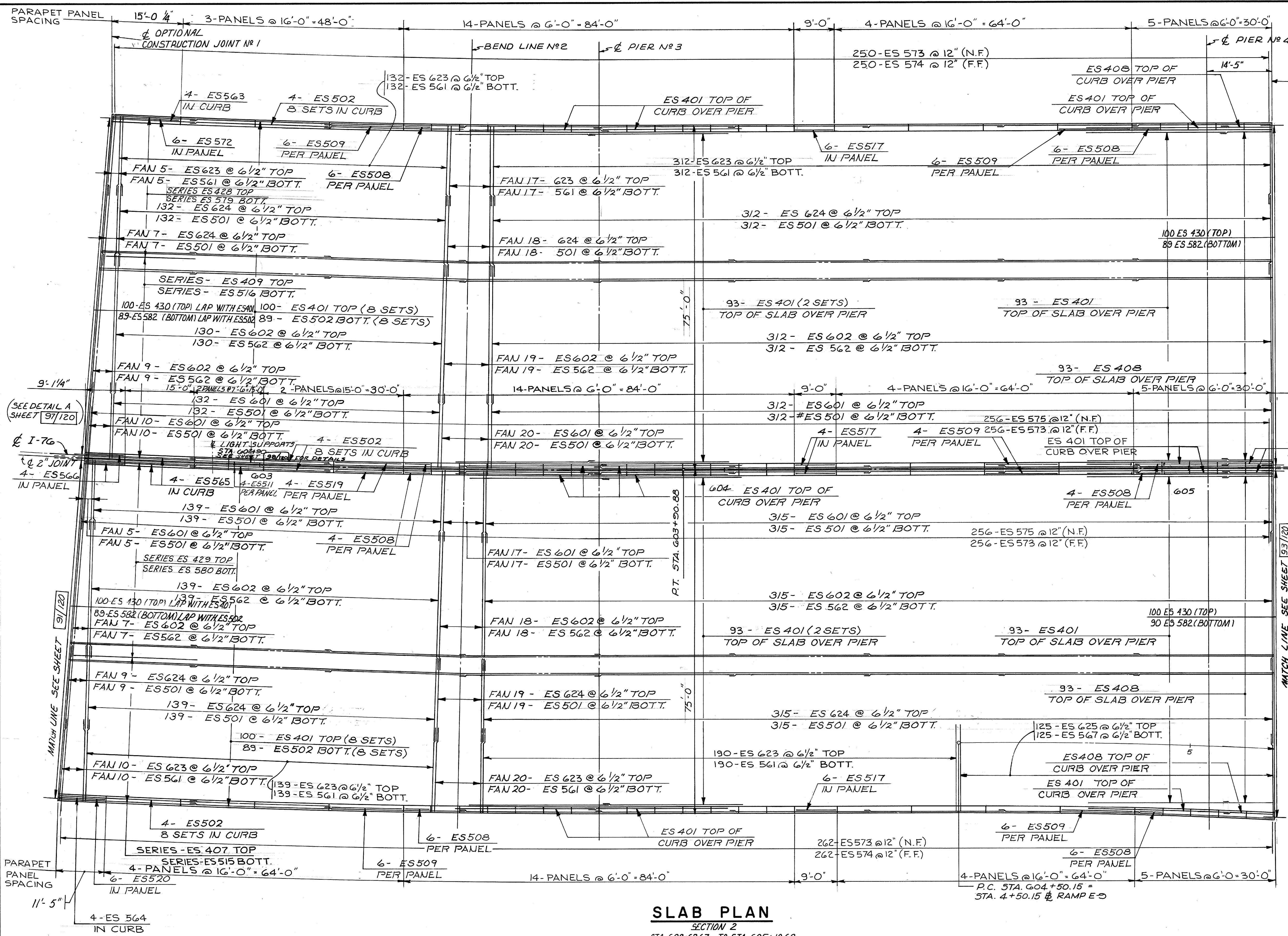
DEFLECTION & CAMBER TABLES
BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JMH	D.A.K.		RAK	JBH	3-31-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

1041
1214

SUMMIT COUNTY
SUM 76 - 11.57
OPTIONAL CONSTRUCTION
JOINT NO. 2



- NOTES**
- UNIT 2
- LENGTH OF SLAB ALONG I-76 IS 255'-8 1/4"
 - MINIMUM SPLICE LENGTHS
4 BARS = 16"
5 BARS = 20"
6 BARS = 24"

SLAB PLAN
SECTION 2
STA. 602+62.63 TO STA. 605+18.68

McCOY ASSOCIATES INC. 92/120
CONSULTING ENGINEERS
AKRON, OHIO

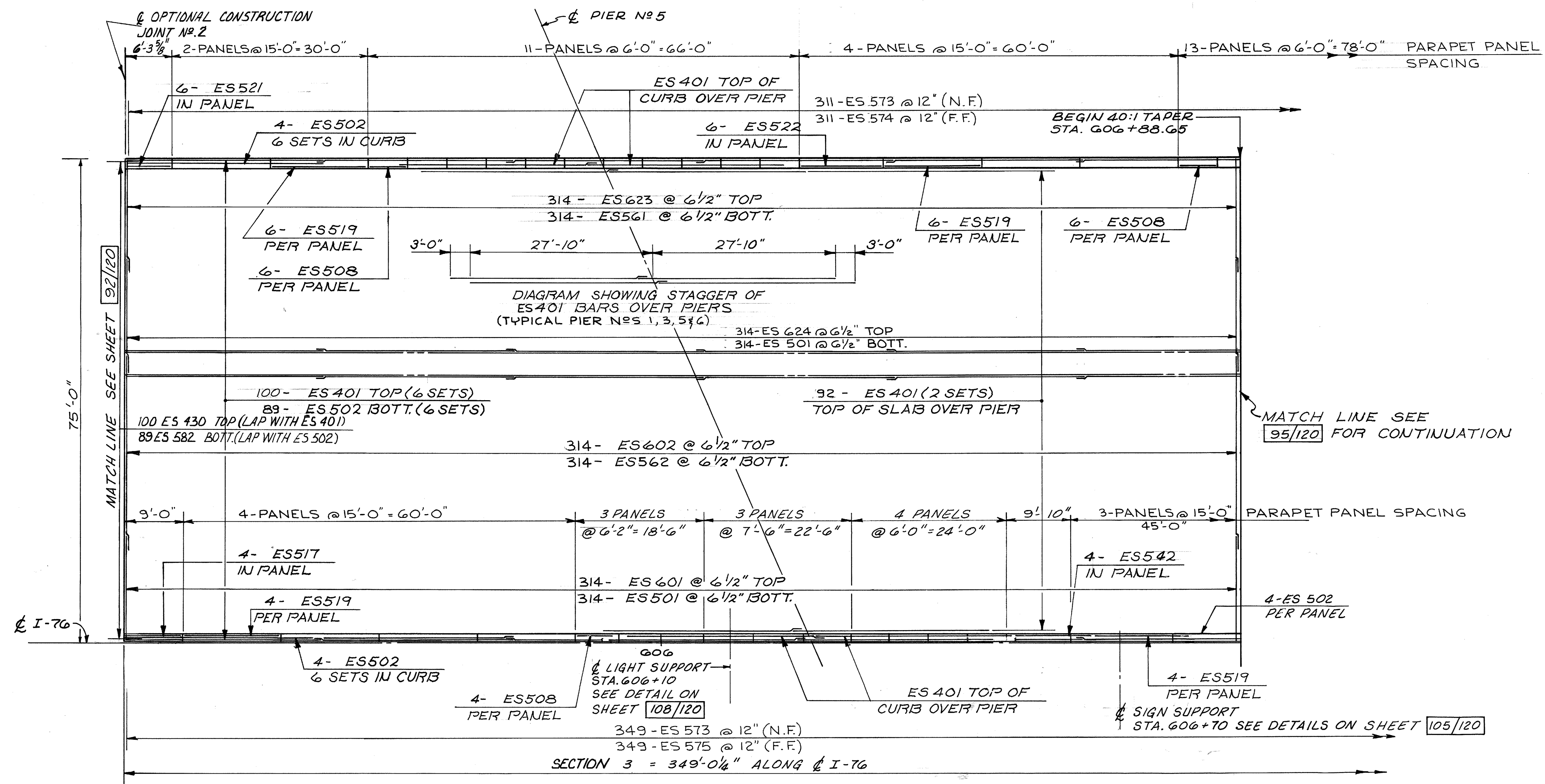
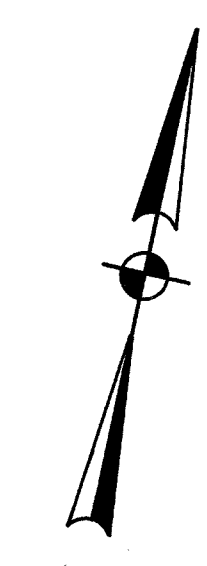
DECK SLAB PLAN
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		GCK	J.B.H.	3-31-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

1042
1214

SUMMIT COUNTY
SUM 76 - 11.57



- NOTES**
- MINIMUM SPLICE LENGTHS
 #4 BARS = 16"
 #5 BARS = 20"
 #6 BARS = 24"

SLAB PLAN
SECTION 3 STA. 605+18.68 STA. 606+88.65
(NORTH SIDE)

McCOY ASSOCIATES INC. 93/120					
CONSULTING ENGINEERS AKRON, OHIO					
DECK SLAB PLAN					
BRIDGE NO. SUM. 76 - 1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
T.A.B.	J.D.P.		G.C.K.	J.B.H.	2-31-82

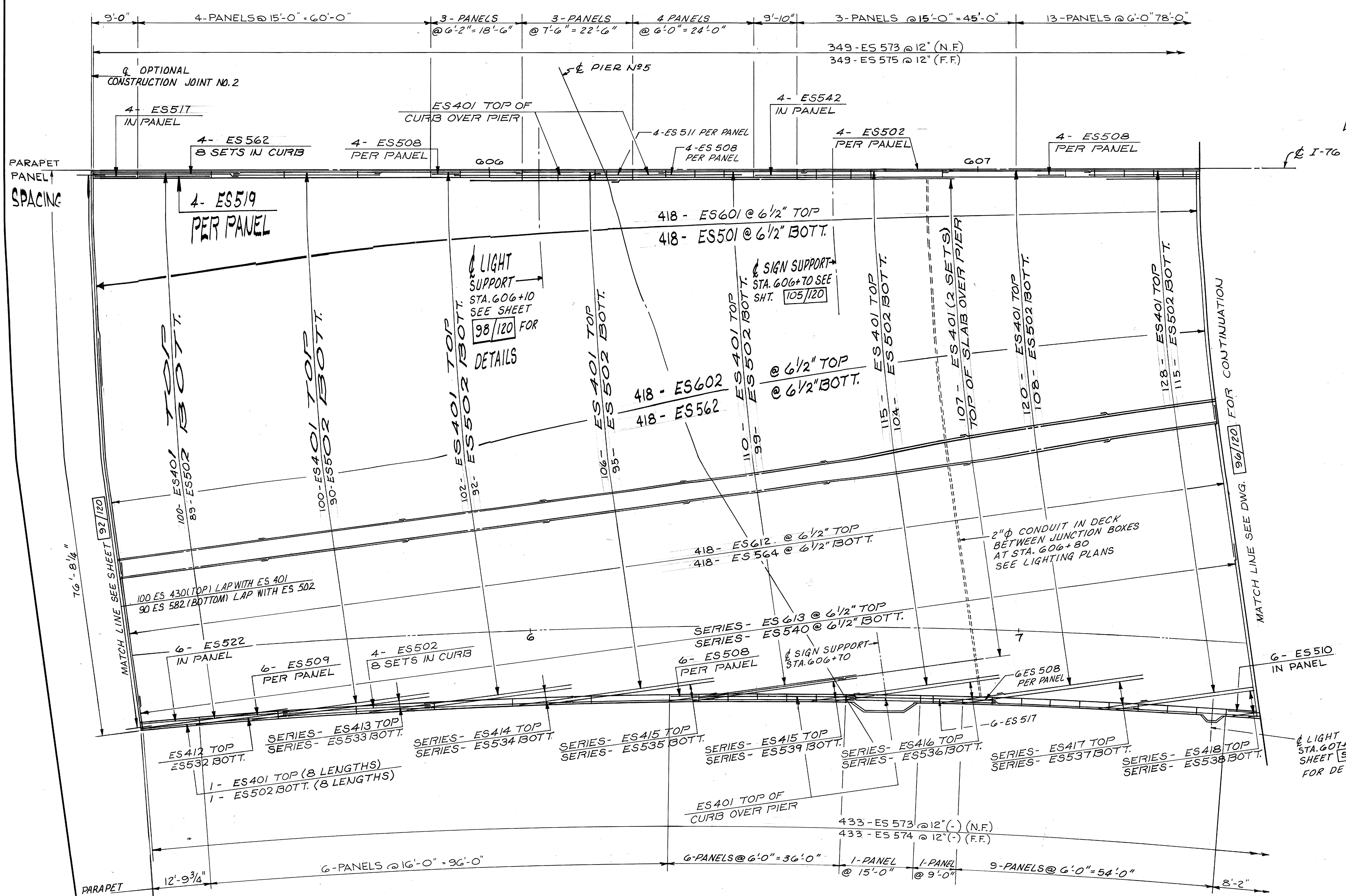
FHWA REGION	STATE	PROJECT
5	OHIO	

1043
1214

SUMMIT COUNTY
SUM 76-11.57

NOTES

- FOR SIGN SUPPORT DETAILS SEE SHEET 105/120
- FOR LIGHT SUPPORT DETAILS SEE SHEET 98/120
- MINIMUM SPLICE LENGTHS
#4 BARS = 16"
#5 BARS = 20"
#6 BARS = 24"



SLAB PLAN

SECTION 3 STATION 605+18.68 TO STATION 607+45.50
(SOUTH BRIDGE)

McCOY ASSOCIATES INC
CONSULTING ENGINEERS
AKRON, OHIO

DECK SLAB PLAN

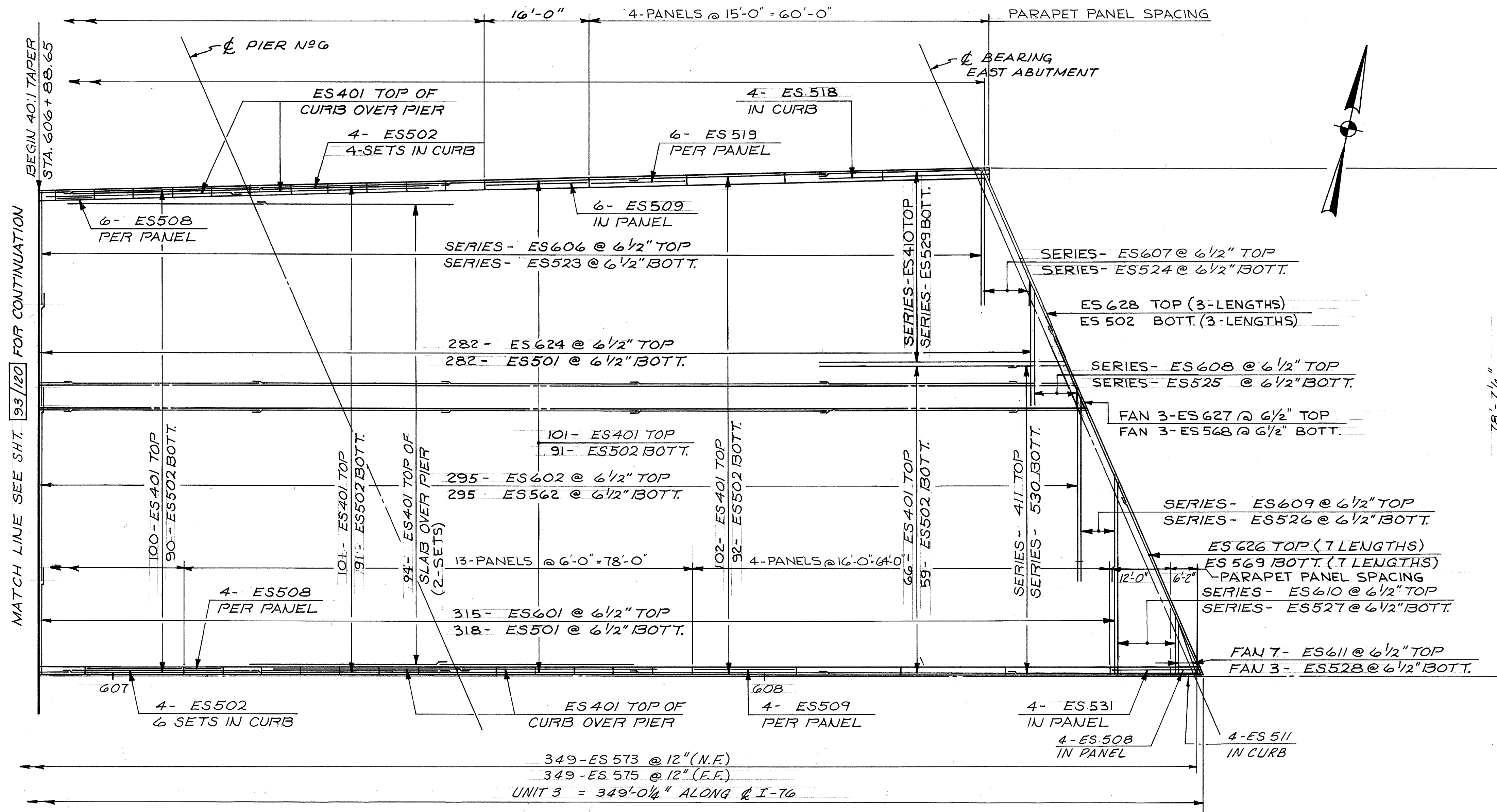
BRIDGE NO. SUM. 76-12
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
T.A.B.	J.D.P.		G.C.K.	J.B.H.

FHWA REGION	STATE	PROJECT
5	OHIO	

1044
1214

SUMMIT COUNTY
SUM 76-11.57



NOTES

- ① MINIMUM SPLICE LENGTHS
 - # 4 BARS = 16"
 - # 5 BARS = 20"
 - # 6 BARS = 24"

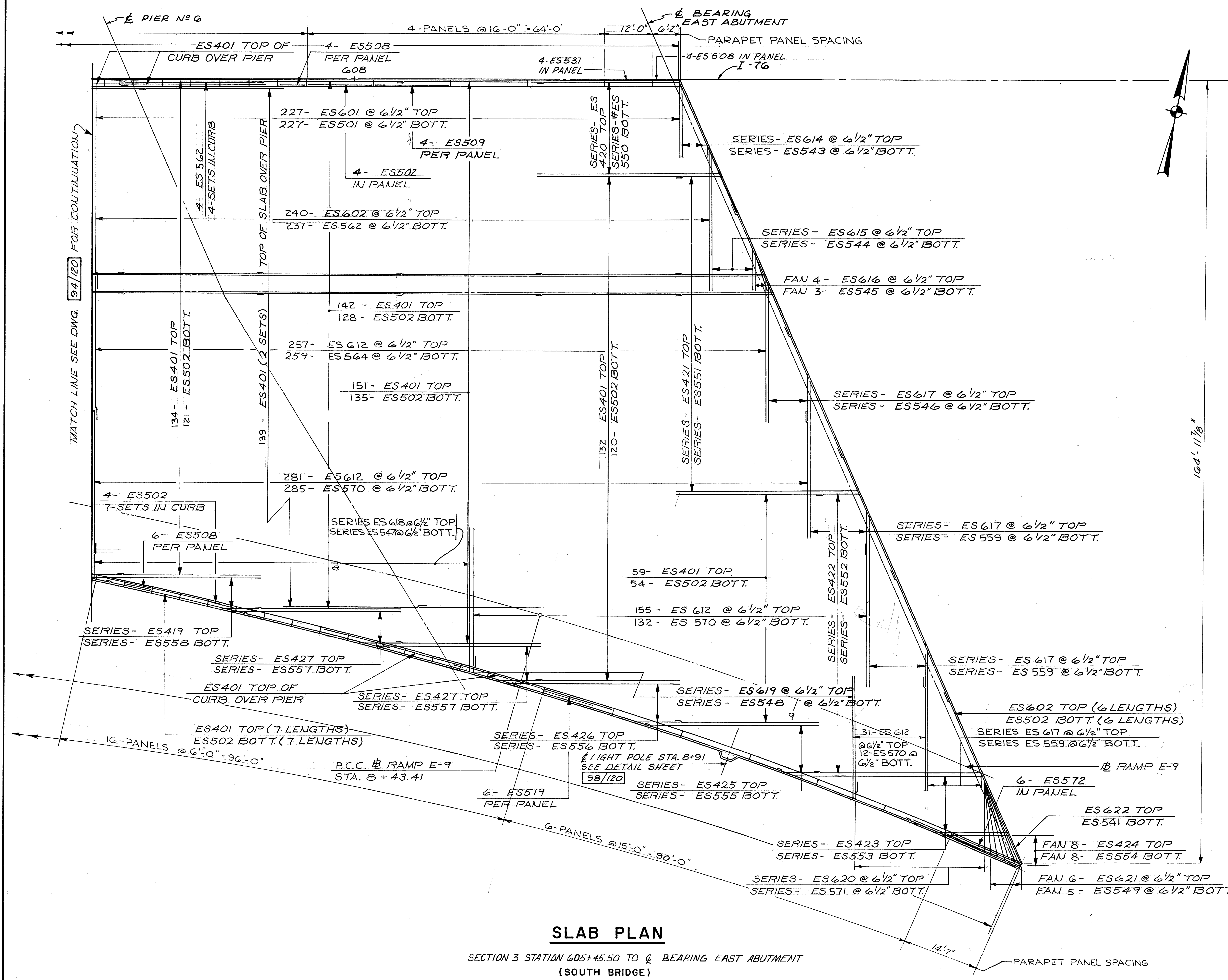
SLAB PLAN

SECTION 3 STATION 606+88.65 TO ϕ BEARING EAST ABUTMENT
(NORTH BRIDGE)

McCOY ASSOCIATES INC. 95/120
CONSULTING ENGINEERS
AKRON, OHIO

DECK SLAB PLAN
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		G.C.K.	J.B.H.	3-31-89	



NOTES

- FOR LIGHT SUPPORT DETAILS SEE SHEET 98/120
- MINIMUM SPLICE LENGTHS
#4 BARS = 16"
#5 BARS = 20"
#6 BARS = 24"

SLAB PLAN

SECTION 3 STATION 605+45.50 TO & BEARING EAST ABUTMENT
(SOUTH BRIDGE)

McCoy Associates Inc. 96/120
CONSULTING ENGINEERS
AKRON, OHIO

DECK SLAB PLAN

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

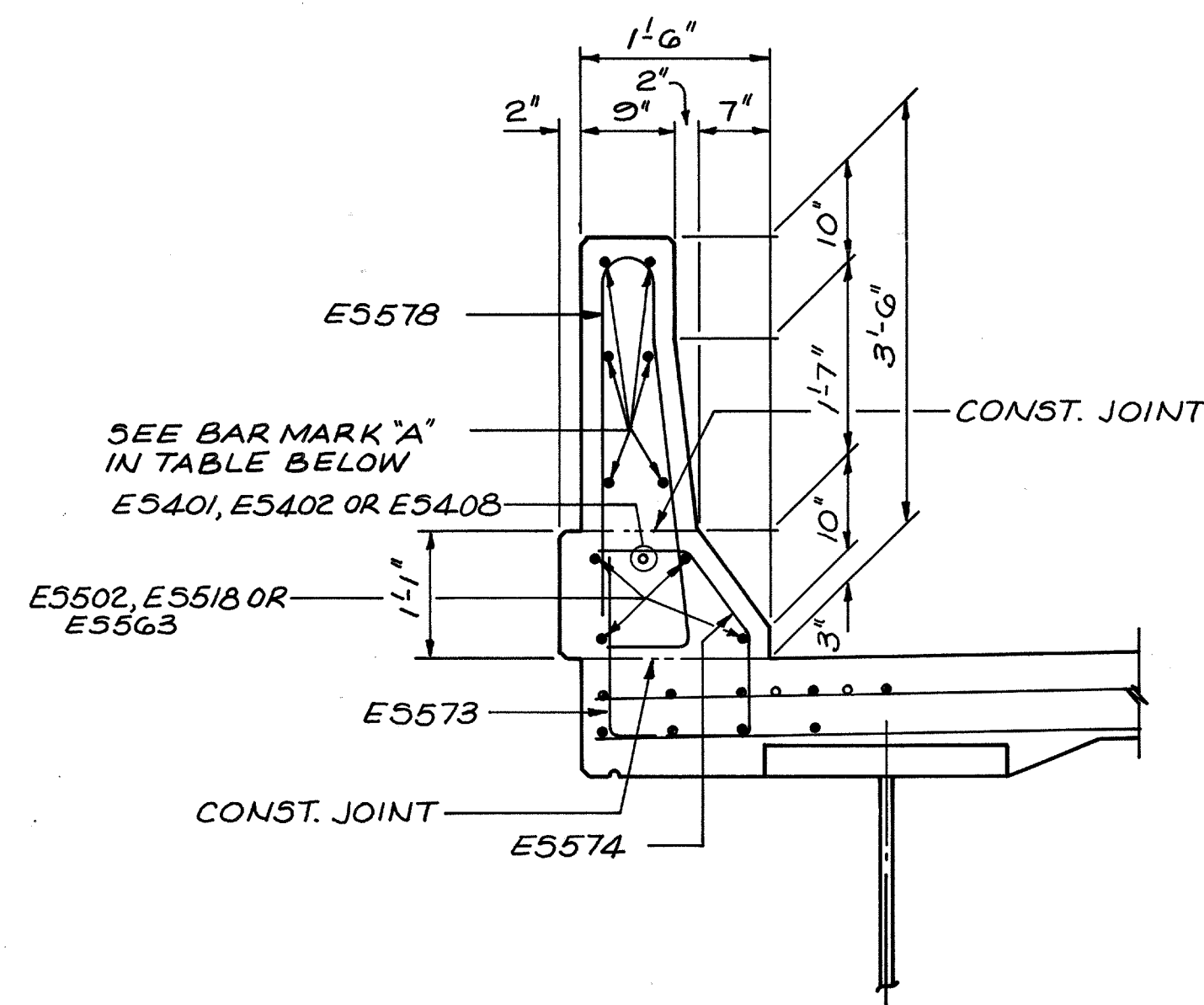
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.A.B.	J.D.P.		Q.C.K.	J.B.H.	3-31-89	

FHWA REGION	STATE	PROJECT
5	OHIO	

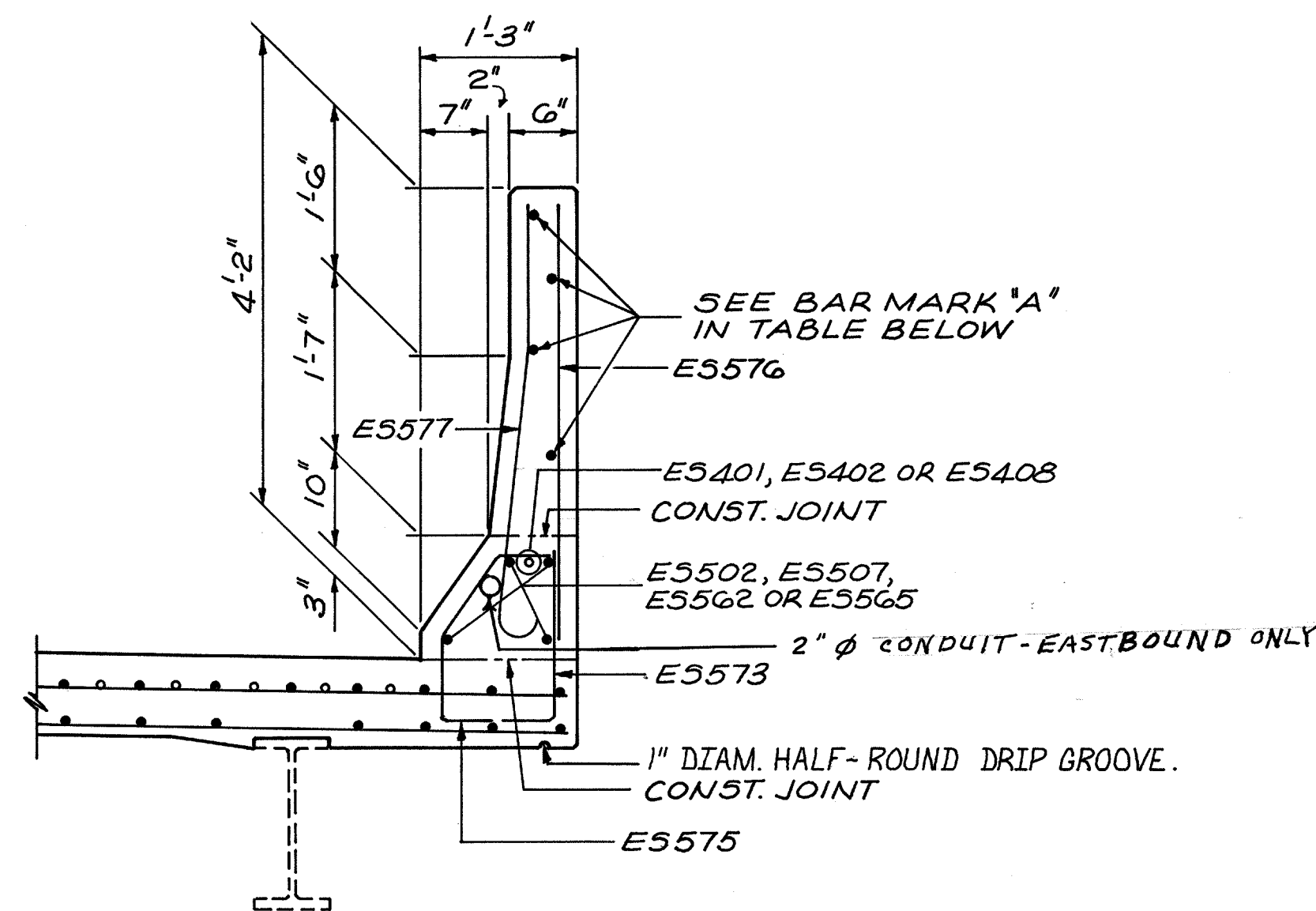
046
1214

SUMMIT COUNTY
SUM 76-II.57

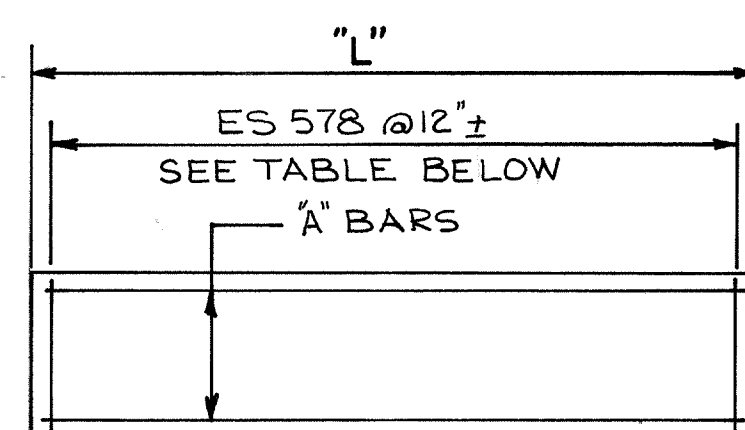
FOR ADDITIONAL BARRIER DETAILS @
LIGHT SUPPORTS AND SIGN SUPPORT
SEE SHEETS 98/120 & 105/120



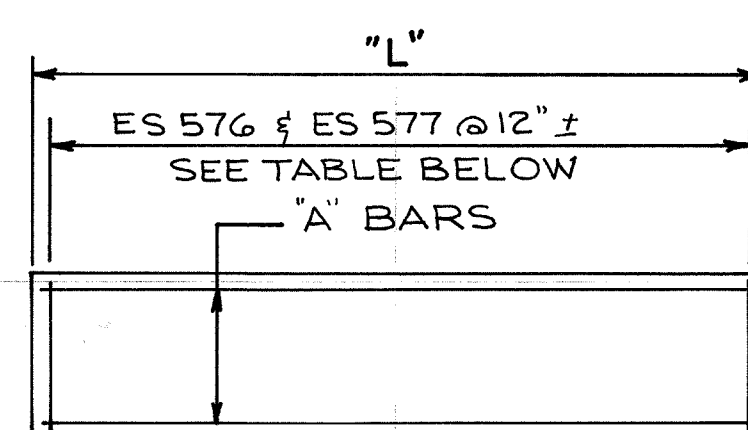
SECTION THRU PARAPET
SCALE: 3/4"=1'-0"



SECTION THRU MEDIAN BARRIER
SCALE: 3/4"=1'-0"



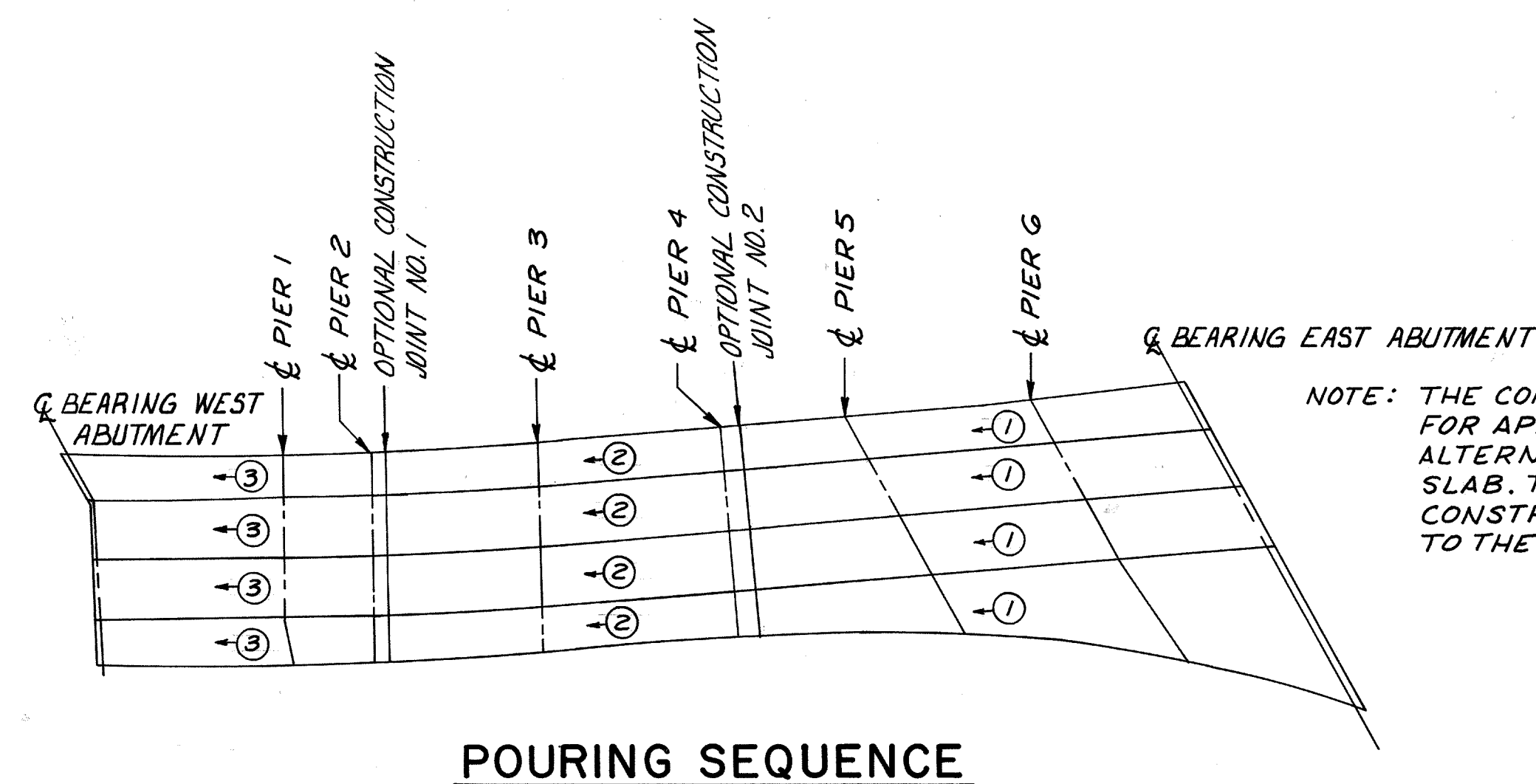
TYPICAL PARAPET PANEL



TYPICAL MEDIAN BARRIER PANEL

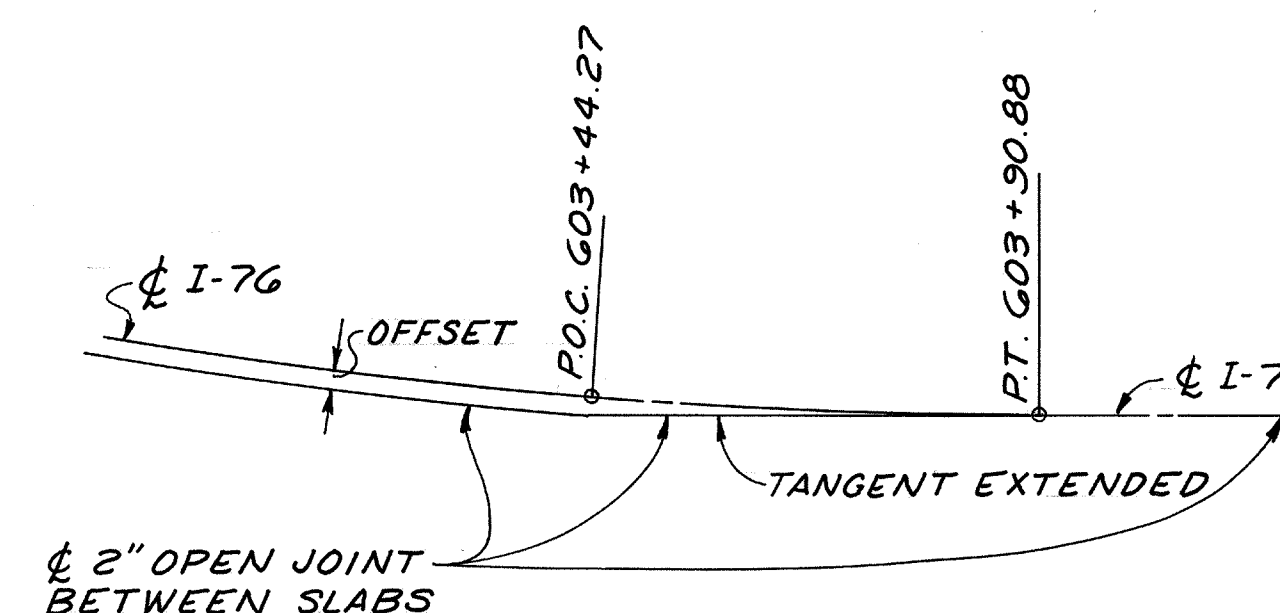
NO. OF PARAPET PANELS E-BOUND	NO. OF PARAPET PANELS W-BOUND	LENGTH "L"	BAR MARK "A"	NO. OF ES 578 PER PANEL
67	61	6'-0"	ES 508	7
1		8'-2"	ES 510	9
1		8'-8 1/2"	ES 583	9
2	1	9'-0"	ES 517	10
	1	10'-1 1/8"	ES 512	10
	1	6'-3 5/8"	ES 521	7
1		11'-5"	ES 520	12
1		12'-9 3/4"	ES 522	14
1		14'-7"	ES 572	15
6	10	15'-0"	ES 519	16
22	15	16'-0"	ES 509	17
	1	15'-0 1/4"	ES 572	15

NO. OF MEDIAN PANELS E-BOUND	NO. OF MEDIAN PANELS W-BOUND	LENGTH "L"	BAR MARK "A"	NO. OF ES 576 AND ES 577 PER PANEL
54	54	6'-0"	ES 508	7
3	3	7'-6"	ES 511	8
1	1	9'-1 1/4"	ES 566	9
2	2	9'-0"	ES 517	10
1	1	9'-10"	ES 542	10
1	1	7'-11 7/8"	ES 581	8
4	4	6'-2"	ES 508	7
1	1	12'-0"	ES 531	13
15	15	15'-0"	ES 519	16
4	4	16'-0"	ES 509	17



NOTE: THE CONTRACTOR MAY SUBMIT, FOR APPROVAL BY THE DIRECTOR, ALTERNATE SCHEMES OF PLACING SLAB. THE SEQUENCE OF SLAB CONSTRUCTION DOES NOT APPLY TO THE MEDIAN AND PARAPETS.

STATION	OFFSET
G00+25.43 TO G03+44.27	4 1/2" RT.
G03+44.27 TO G03+90.88	VARIABLE 4 1/2" RT. TO 0"
G03+90.88 TO G08+99.03	0"



DETAIL A
CL SLABS & CL I-76
NOT TO SCALE

McCoy Associates Inc. 97/120
CONSULTING ENGINEERS
AKRON, OHIO

SUPERSTRUCTURE DETAILS

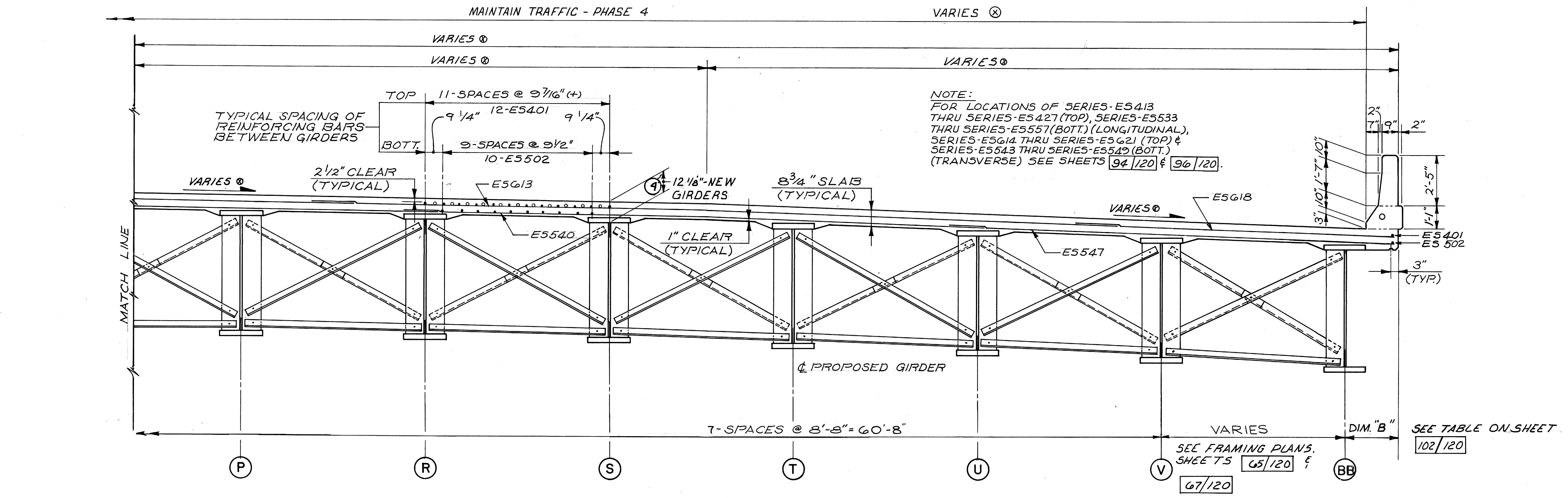
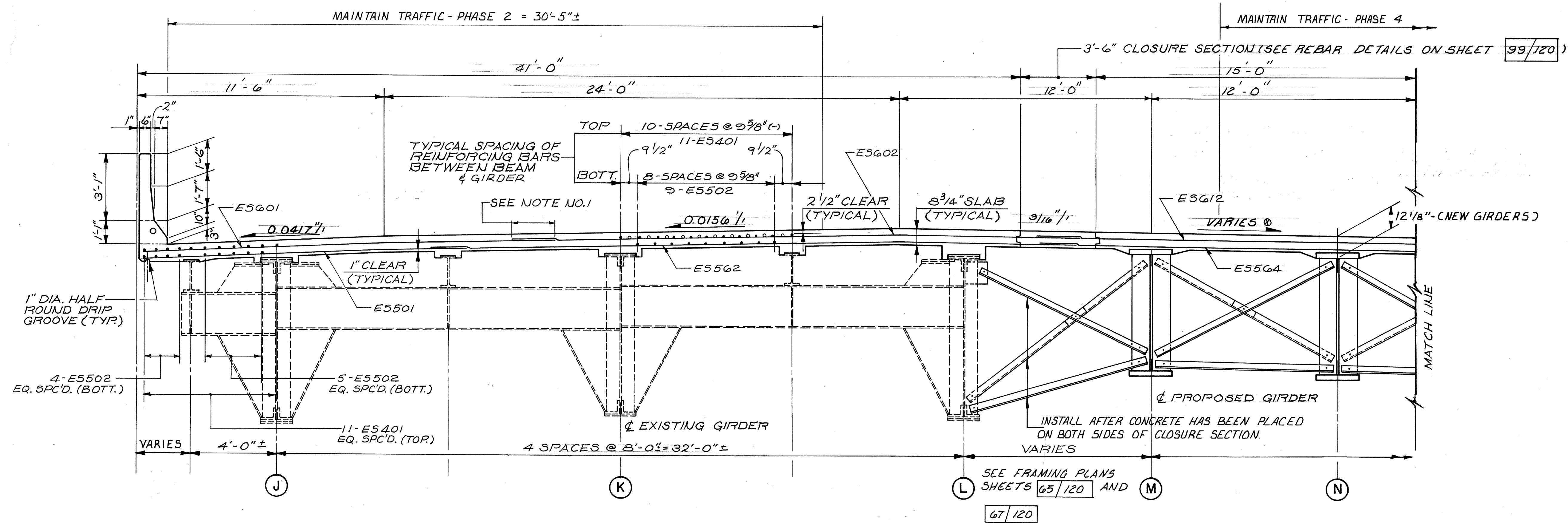
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	J.D.P.		M.A.M.	JBH	3-31-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

1050
1214

SUMMIT COUNTY
SUM 76-11.57



NOTES

- TYPICAL REINFORCING BAR LAPS:
#4 = 16"
#5 = 20"
#6 = 24"
- FOR SCREED ELEVATION TABLES, SEE SHEETS 103/120 & 103A/120
- GIRDERS W, X, Y, Z & A-A NOT SHOWN, SEE FRAMING PLANS SHEETS 65/120 AND 67/120 FOR LOCATION.
- APPROXIMATE STATION 608+00 SHOWN, SEE FRAMING PLAN FOR GIRDER DETAILS SHEETS 65/120 AND 67/120
- 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 GIRDER MAY NOT HAVE THE EXACT CAMBER REQUIRED.
- FOR ELECTRICAL CONDUIT ON BRIDGE, SEE LIGHTING PLAN
- A HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE AT NEW GIRDERS, EVEN THOUGH THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL NOT BE MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH
- FOR HAUNCH DETAILS AT EXISTING GIRDERS, SEE SHEET 104/120

EASTBOUND LANES
STA. 604+91.82 TO STA. 608+69.03

SEE ROADWAY TYPICAL SECTIONS

McCoy Associates Inc. 101/120
CONSULTING ENGINEERS
AKRON, OHIO

TRANSVERSE SECTION

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TAB	J.D.R.		J.B.H.	J.B.H.	3-31-89	

LOCATION	DIMENSION A	REFERENCE GIRDER
WEST ABUTMENT	3'-0"	B
1/8 POINT	2'-5 7/8"	B
1/4 POINT	2'-1 3/8"	B
3/8 POINT	1'-10 3/8"	B
SPLICE	1'-9"	B
5/8 POINT	1'-9 3/8"	B
3/4 POINT	1'-11 1/4"	B
7/8 POINT	2'-2 7/8"	B
PIER 1	2'-8"	B
BEND LINE 1	3'-0"	B
1/2 POINT	2'-6 1/8"	B
3/4 POINT	2'-2 1/4"	B
PIER 2	1'-11 1/2"	B
SPLICE	1'-10 1/4"	B
1/4 POINT	1'-9"	B
3/8 POINT	1'-9"	B
1/2 POINT	1'-10"	B
5/8 POINT	1'-11 7/8"	B
SPLICE	2'-2 3/8"	B
7/8 POINT	1'-11 7/8"	B
PIER 3	1'-10 1/2"	B
1/8 POINT	1'-10"	B
1/4 POINT	1'-10"	B
3/8 POINT	1'-10"	B
SPLICE	1'-10"	B
5/8 POINT	1'-10"	B
3/4 POINT	1'-10"	B
7/8 POINT	1'-10"	B
PIER 4	1'-10"	B
SPLICE	1'-10"	B

LOCATION	DIMENSION A	REFERENCE GIRDER
1/2 POINT	1'-10"	B
SPLICE	1'-10"	B
PIER 5	1'-10"	B
1/8 POINT	1'-10"	B
1/4 POINT	1'-10"	B
3/8 POINT	1'-10"	B
1/2 POINT	1'-10"	B
SPLICE	1'-10"	B
3/4 POINT	1'-10 1/8"	B
7/8 POINT	2'-3"	B
PIER 6	2'-8"	B
1/8 POINT	3'-0"	B
1/4 POINT	3'-4 3/8"	B
SPLICE	3'-5 1/8"	B
1/2 POINT	4'-0 7/8"	B
5/8 POINT	1'-5 3/4"	A
3/4 POINT	1'-10"	A
7/8 POINT	2'-2 1/8"	A
EAST ABUTMENT	2'-6"	A

LOCATION	DIMENSION B	REFERENCE GIRDER
WEST ABUTMENT	1'-11"	R
1/8 POINT	2'-3"	R
1/4 POINT	2'-5 7/8"	R
3/8 POINT	2'-7 1/2"	R
SPLICE	2'-7 3/4"	R
5/8 POINT	2'-7"	R
3/4 POINT	2'-4 7/8"	R
7/8 POINT	2'-1 1/2"	R
PIER 1	1'-9 1/8"	R
BEND LINE 1	1'-6"	R
1/2 POINT	1'-10 3/4"	R
3/4 POINT	2'-1 1/2"	R
PIER 2	2'-3 3/8"	R
SPLICE	2'-4 1/4"	R
1/4 POINT	2'-4 7/8"	R
3/8 POINT	2'-3 7/8"	R
1/2 POINT	2'-2"	R
5/8 POINT	1'-11 1/8"	R
SPLICE	1'-7 1/8"	R
7/8 POINT	1'-9 3/8"	R
PIER 3	1'-11"	R
1/8 POINT	1'-11 3/8"	R
SPLICE	1'-11 3/8"	R
3/8 POINT	1'-11 3/8"	R
1/2 POINT	1'-11 3/8"	R
5/8 POINT	1'-11 3/4"	R
3/4 POINT	2'-1 1/2"	R
SPLICE	2'-6 3/4"	R
PIER 4	3'-0"	R

LOCATION	DIMENSION B	REFERENCE GIRDER
BEGIN GIRDER B-B	2'-0 1/4"	B-B
1/8 POINT	1'-10 7/8"	B-B
1/4 POINT	1'-11 5/8"	B-B
3/8 POINT	2'-2 1/2"	B-B
1/2 POINT	2'-7 1/2"	B-B
BEND POINT 1	3'-0"	B-B
5/8 POINT	2'-4 3/8"	B-B
3/4 POINT	2'-1 1/8"	B-B
PIER 5	2'-0"	B-B
1/8 POINT	2'-1 5/8"	B-B
1/4 POINT	2'-6 7/8"	B-B
BEND POINT 2	3'-0"	B-B
1/2 POINT	2'-6 1/2"	B-B
BEND POINT 3	2'-6"	B-B
3/4 POINT	1'-10 7/8"	B-B
7/8 POINT	1'-10 1/4"	B-B
PIER 6	2'-0 3/4"	B-B
1/8 POINT	2'-5 1/8"	B-B
BEND POINT 4	3'-1 1/8"	B-B
3/8 POINT	2'-7 1/2"	B-B
1/2 POINT	2'-5 7/8"	B-B
5/8 POINT	2'-8 1/4"	B-B
BEND POINT 5	2'-11 7/8"	B-B
7/8 POINT	2'-2 1/8"	B-B
EAST ABUTMENT	2'-0 1/8"	B-B

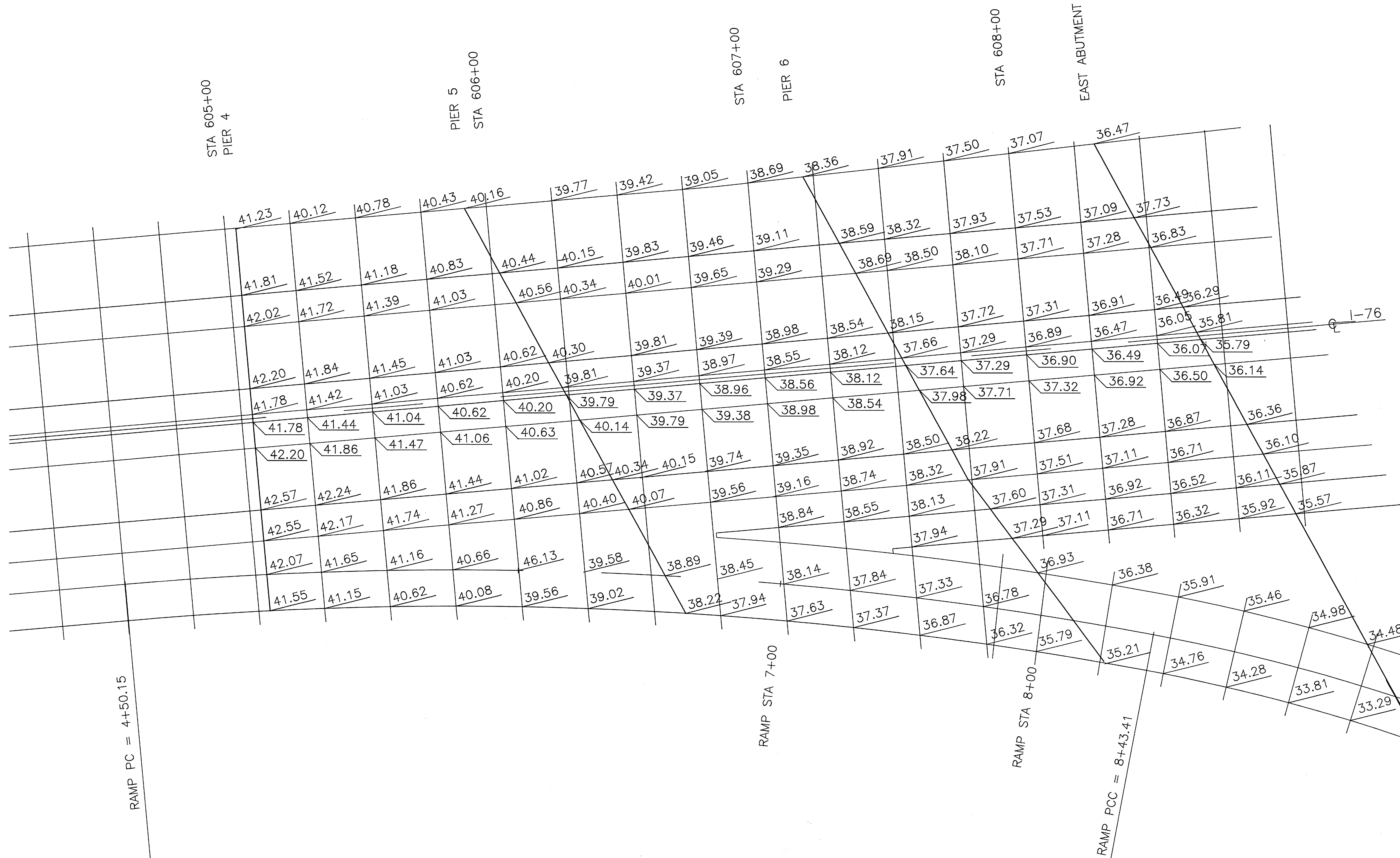
SLAB OFFSETS

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

FEMA REGION	STATE	PROJECT
5	OHIO	

1053
1214

SUMMIT COUNTY
SUM 76-11.57

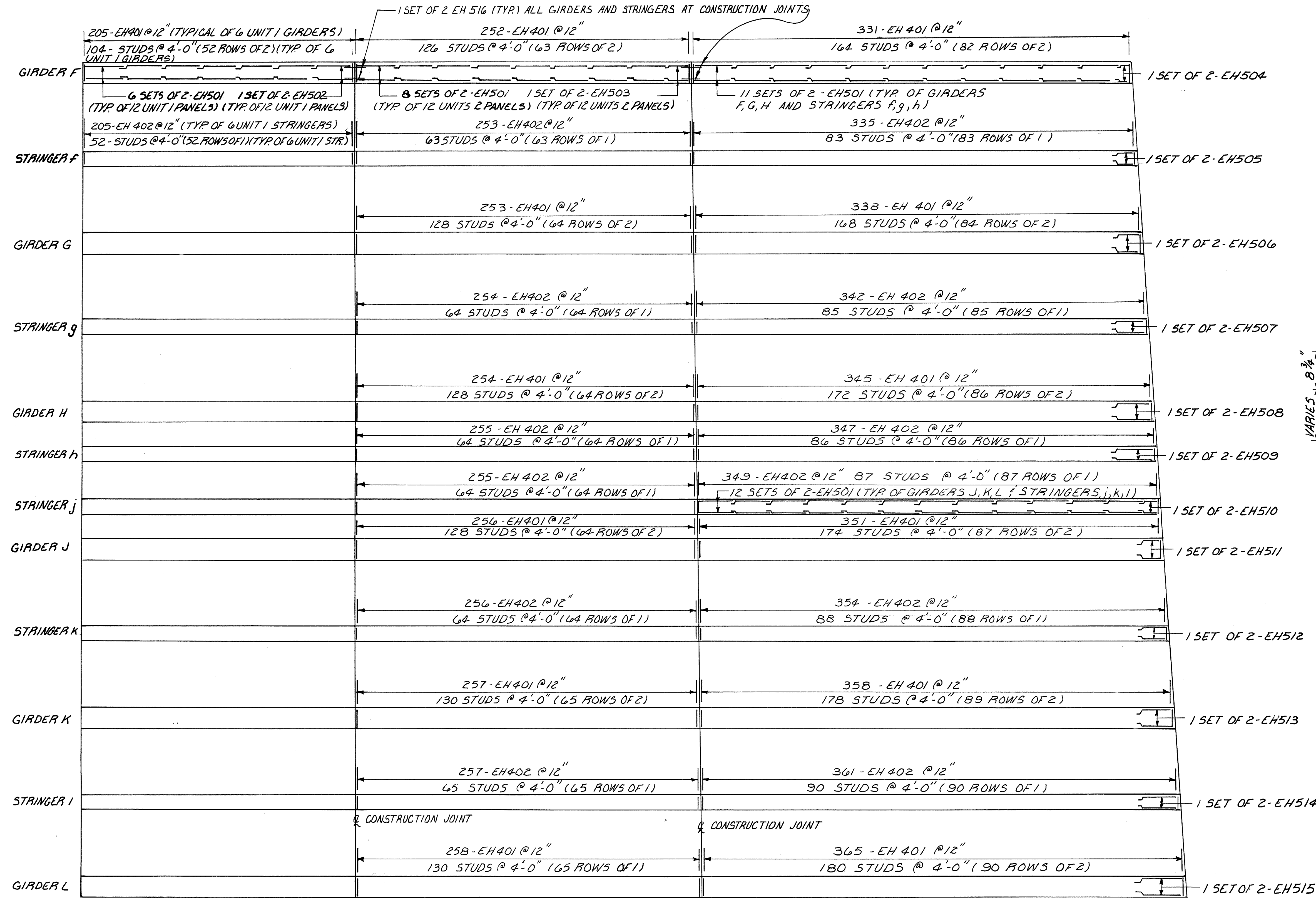


NOTES

- ① THE ELEVATIONS SHOWN ARE TOP OF CONCRETE SLAB ELEVATIONS WHICH ARE REQUIRED BEFORE THE CONCRETE IS PLACED. PROPER ALLOWANCE HAS BEEN MADE FOR THE DEAD LOAD DEFLECTIONS CAUSED BY THE WEIGHT OF THE CONCRETE SLAB.
- ② FOR TRUE ELEVATIONS ADD 1000 TO ELEVATIONS SHOWN.

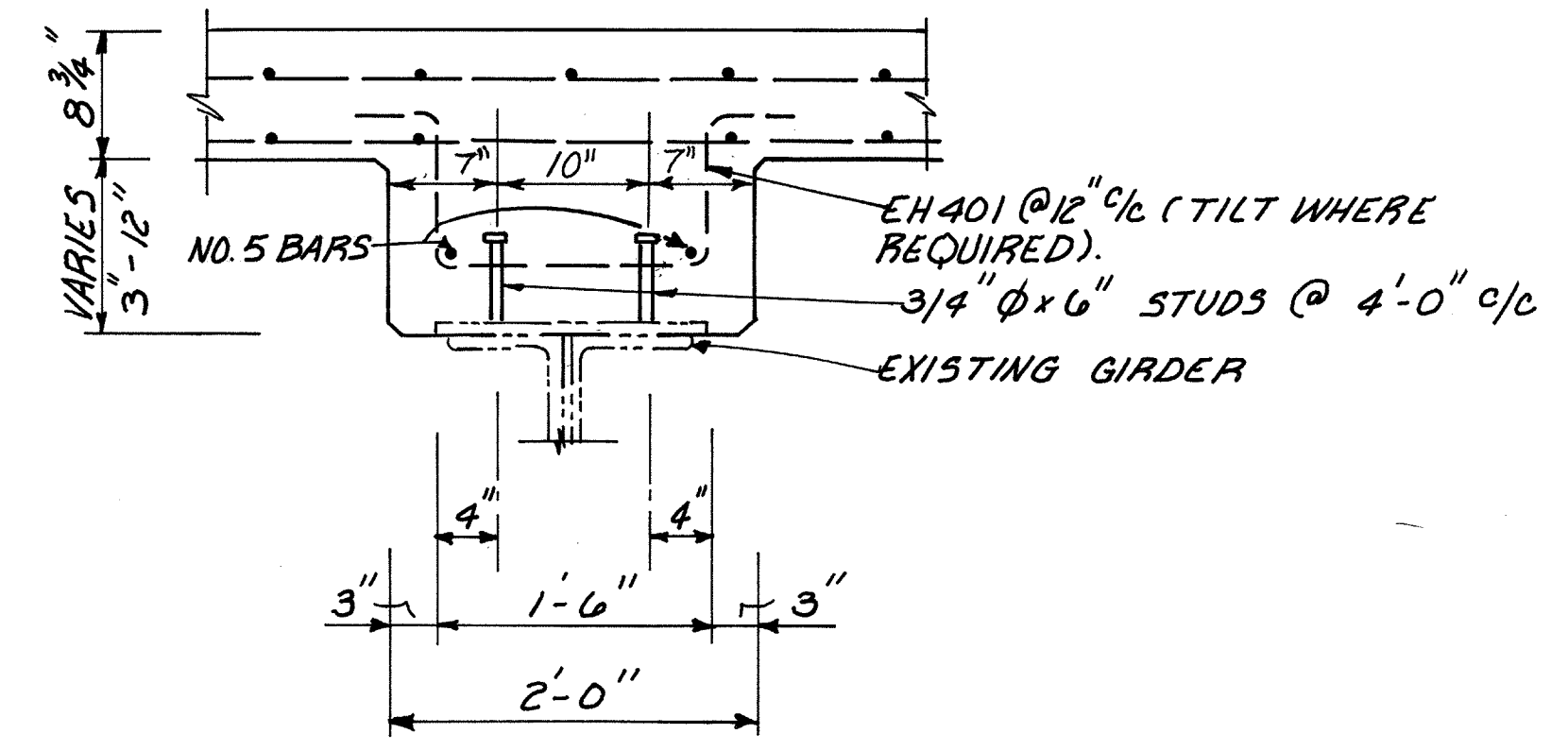
McCOY ASSOCIATES INC. 1034/120					
CONSULTING ENGINEERS AKRON, OHIO					
SCREED ELEVATIONS					
BRIDGE NO. SUM 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.M.H.	CAD		R.A.K.	J.B.H.	3/89

SUMMIT COUNTY
SUM. 76 - II.57

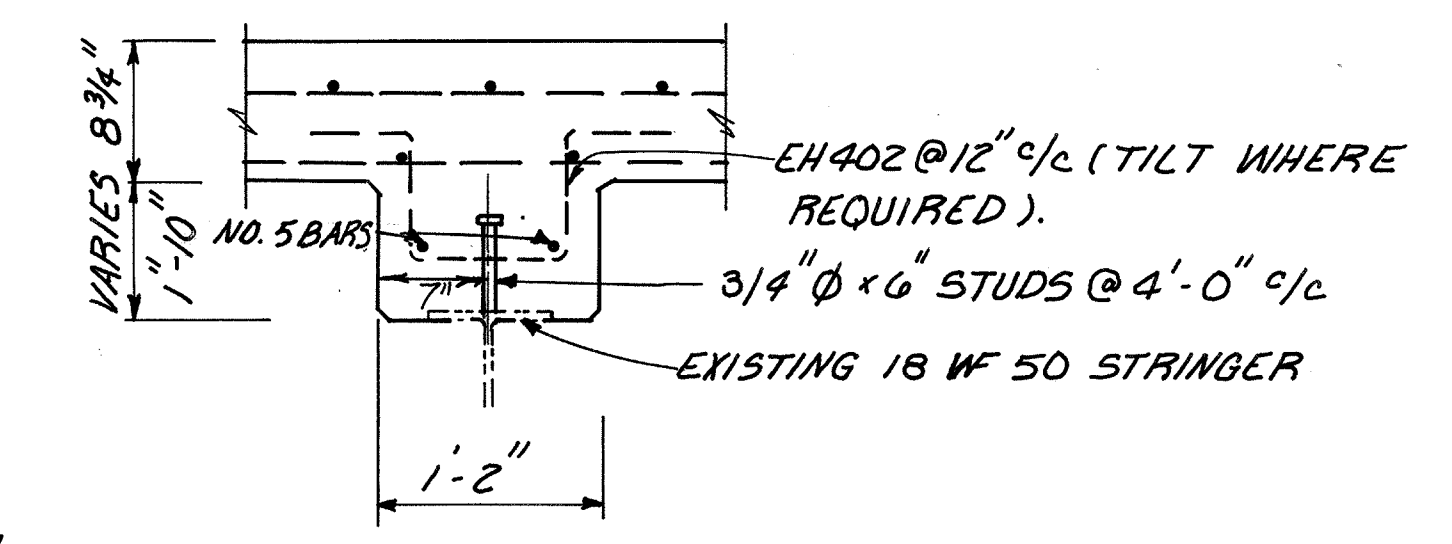


NOTES:

- MINIMUM STEEL REINFORCING LAP LENGTH SHALL BE 20" FOR NO. 5 BARS.
- MINIMUM CLEARANCE OF ALL REINFORCING STEEL FROM THE FACE OF THE CONCRETE SHALL BE 2 1/2".



TYPICAL SLAB HAUNCH DETAIL
AT EXISTING GIRDER



TYPICAL SLAB HAUNCH DETAIL
AT EXISTING STRINGER

WEST ABUTMENT UNIT - 1 CONSTRUCTION JOINT UNIT - 2 CONSTRUCTION JOINT UNIT - 3 EAST ABUTMENT

UNIT 1 FROM WEST ABUTMENT TO G02+62.63
UNIT 2 G02+62.63 TO G05+18.68
UNIT 3 G05+18.68 TO EAST ABUTMENT

SCHEMATIC PLAN

SLAB HAUNCHES AT EXISTING
GIRDERS AND STRINGERS

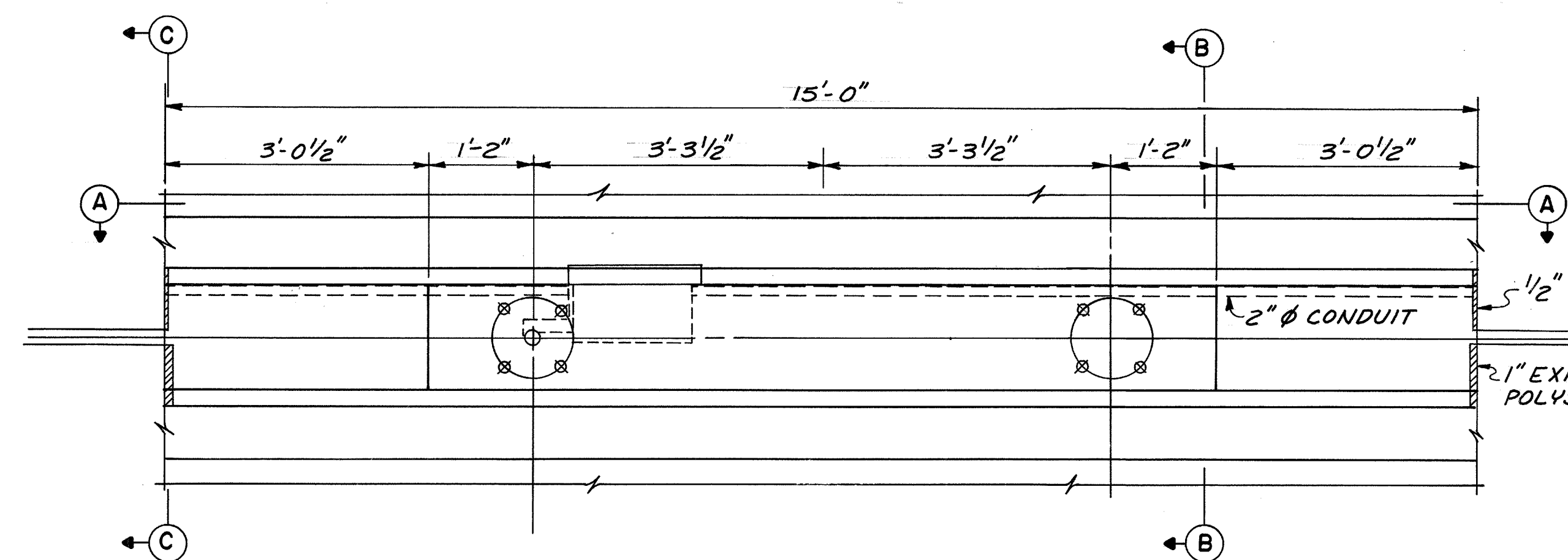
McCoy Associates Inc. 104/120
CONSULTING ENGINEERS
AKRON, OHIO

SLAB HAUNCH PLAN

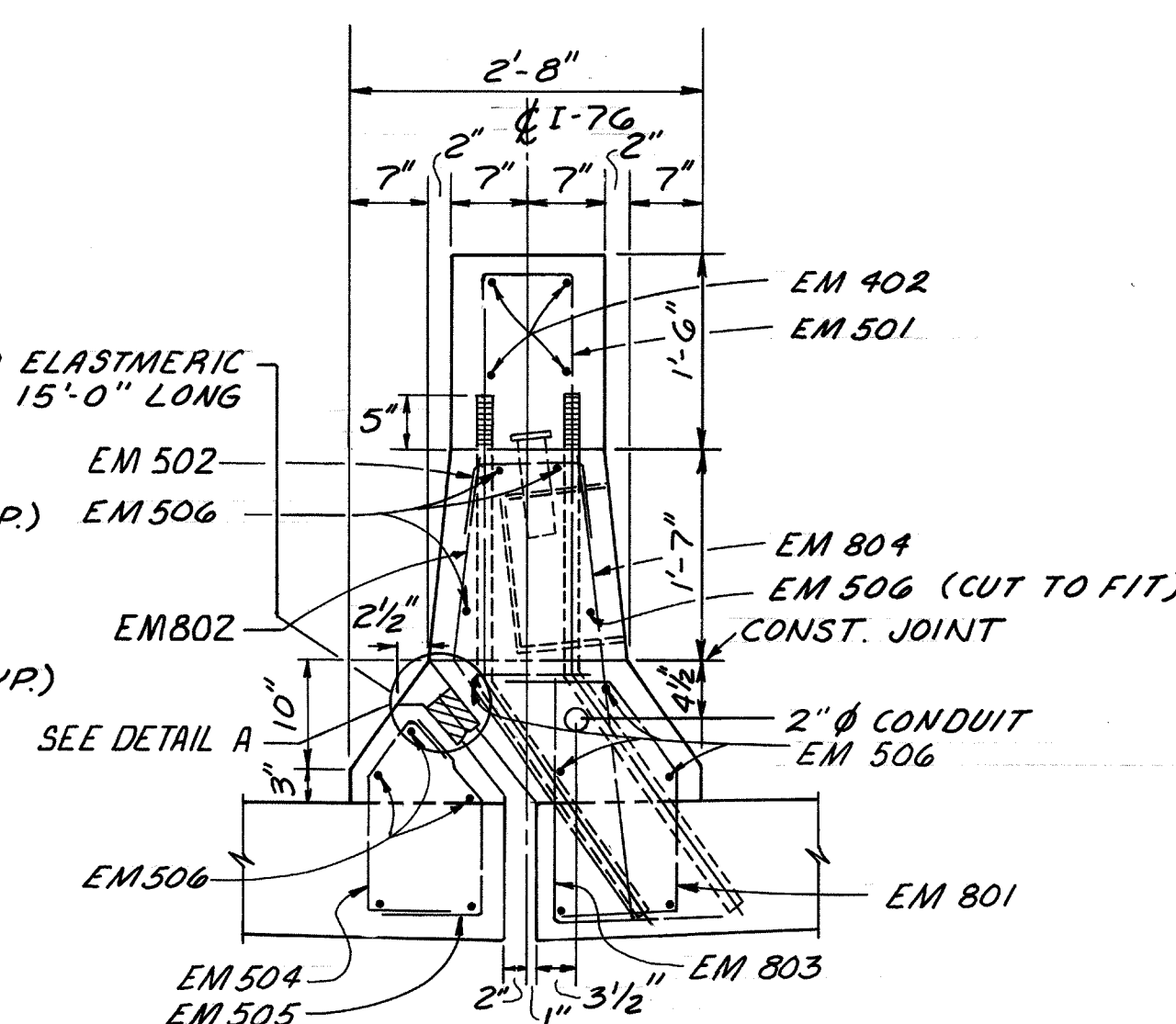
BRIDGE NO. SUM. 76 - 1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
T.E.N.	M.A.M.	A.M.	M.A.M.	J.B.H.	3-30-89	

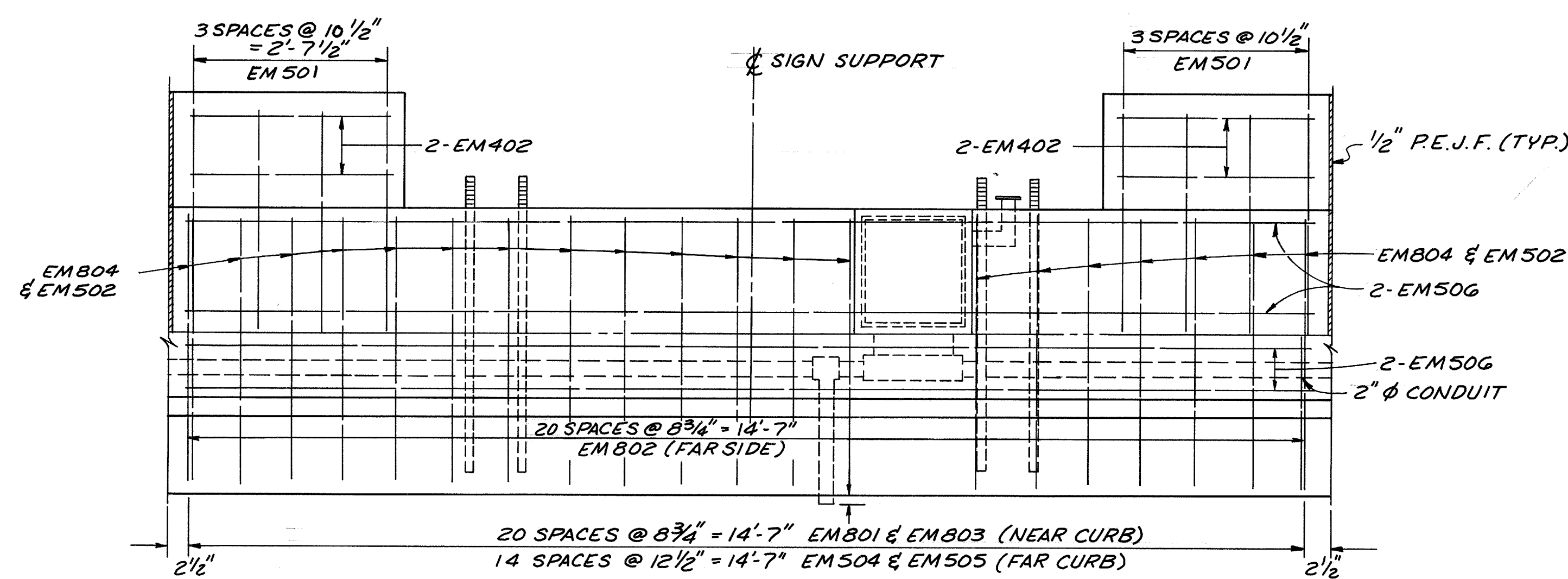
SUM-76-11.57



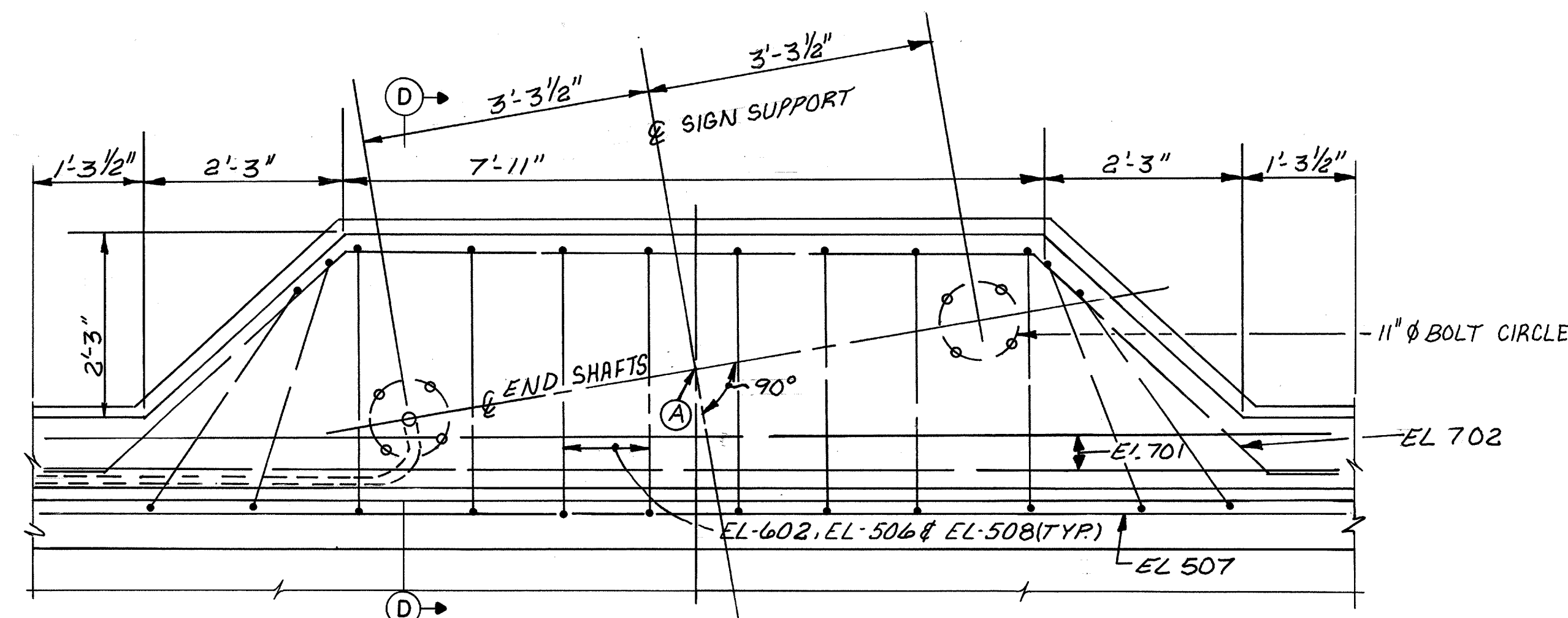
PLAN
SIGN POLE SUPPORT
STA. 606+70



SECTION B-B



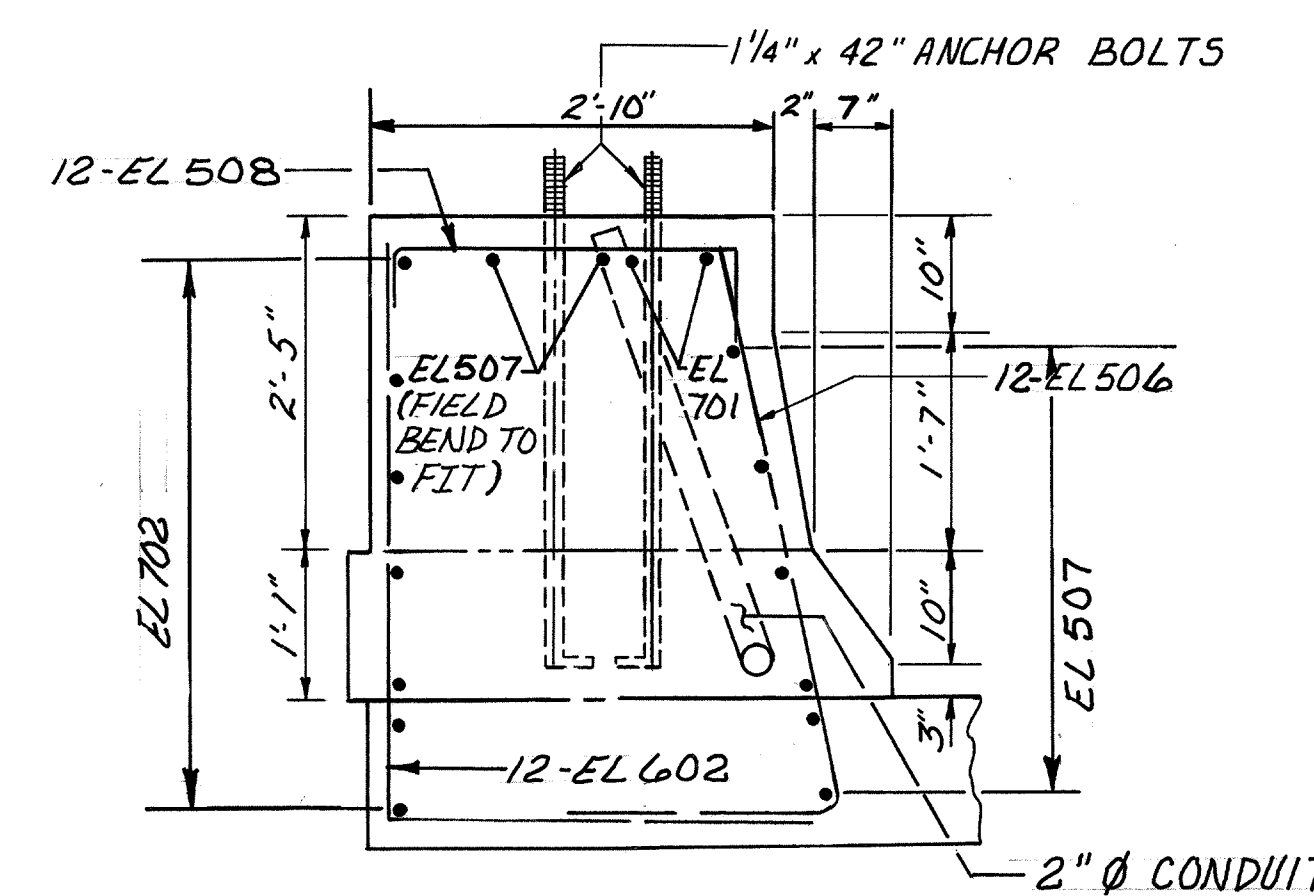
SECTION A-A



STA. 606+70 RT.

NOTES

- FOR DETAIL A, SECTION C-C & BENT ANCHOR BOLT DETAIL, SEE SHEET 98/120
- FOR ADDITIONAL DETAILS, SEE SIGNING PLANS AND NOTES.
- POINT A = STA. 606+70, 92.72' RT.



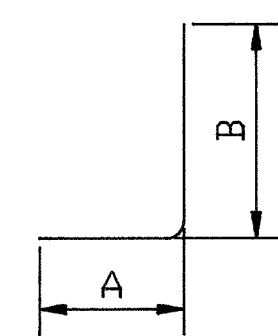
SECTION D-D

McCOY ASSOCIATES, INC. 105/120 CONSULTING ENGINEERS AKRON, OHIO						
SIGN SUPPORT PARAPET DETAILS BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JBH	M.R.A.		M.A.M.	JBH	3-31-89	

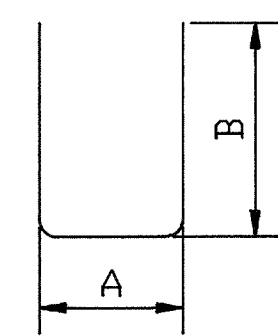
FHWA REGION	STATE	PROJECT
5	OHIO	

1056
1214

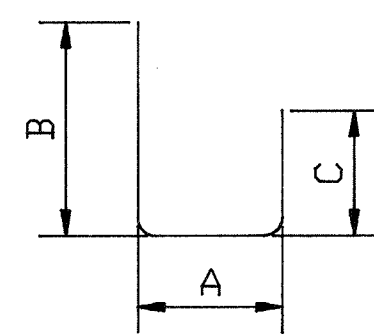
SUMMIT COUNTY
SUM 76-11.57



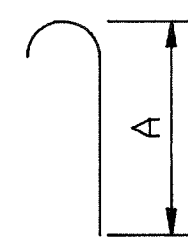
1



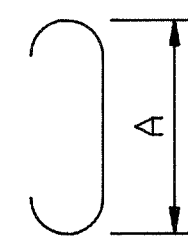
2



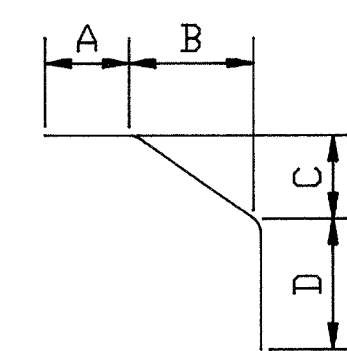
3



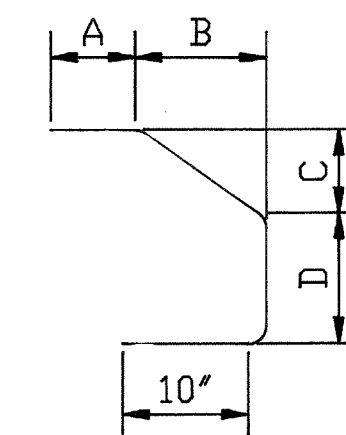
4



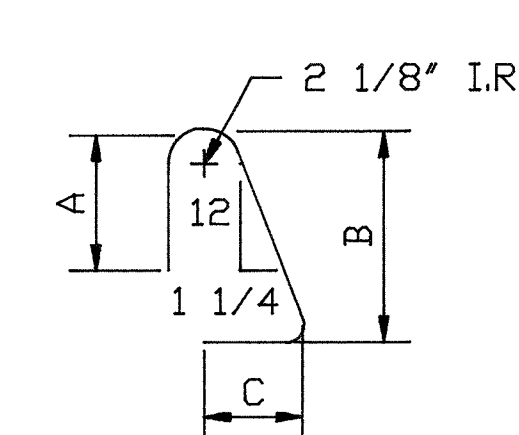
5



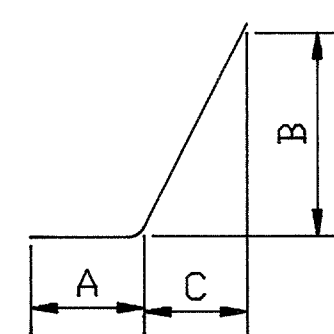
7



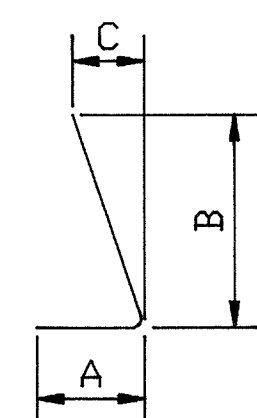
8



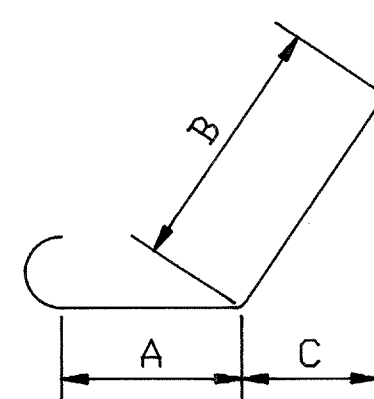
9



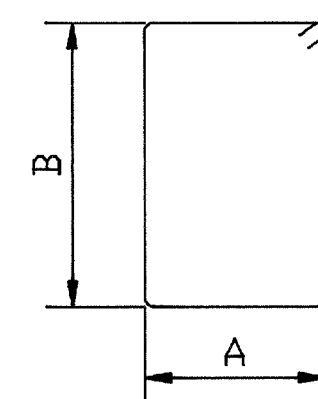
10



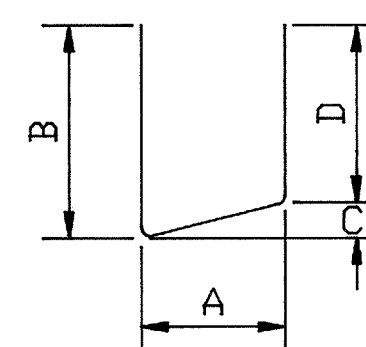
11



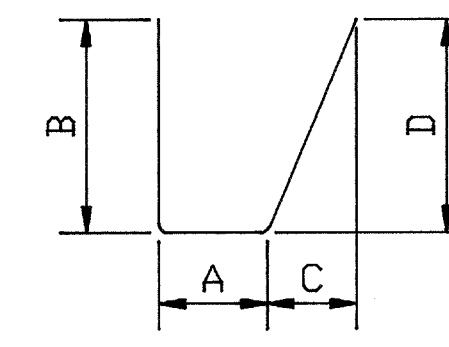
13



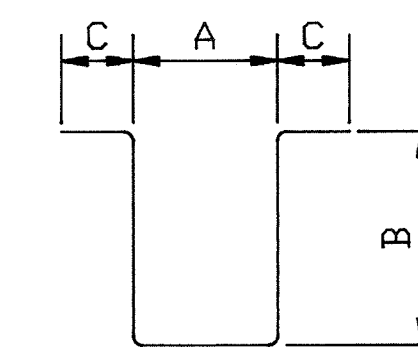
14



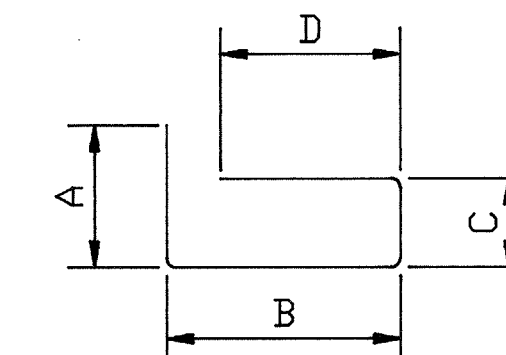
15



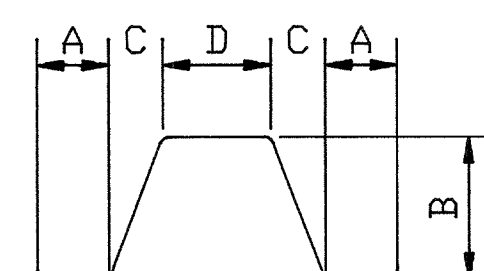
16



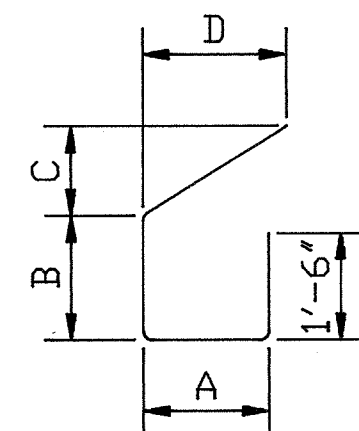
20



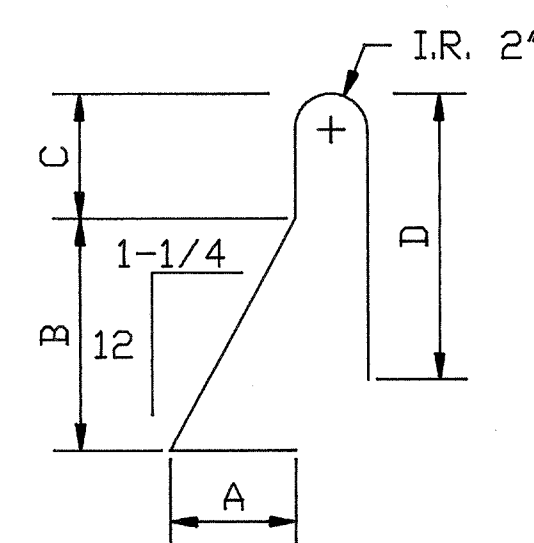
26



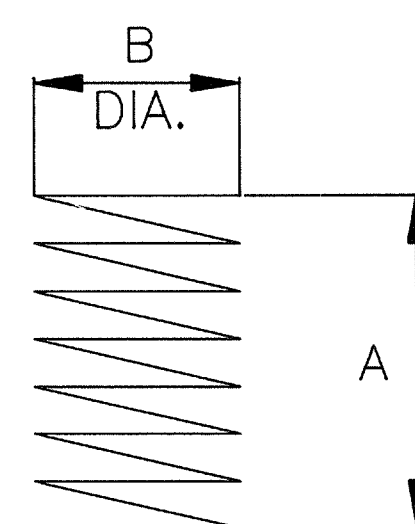
22



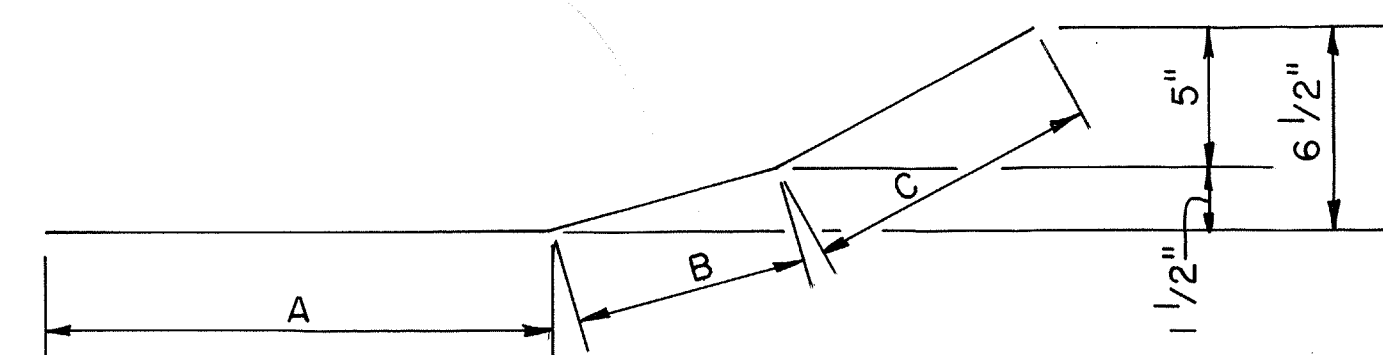
33



34



38



39

NOTES

- BENDING DIAGRAMS SHOWN ON THIS DRAWING ARE THE BAR TYPES TO BE USED FOR THE ABUTMENTS, PIERS, AND WINGWALLS

McCOY ASSOCIATES INC. 106/120
CONSULTING ENGINEERS
AKRON, OHIO

BENDING DIAGRAMS

BRIDGE NO. SUM 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.A.K.	CAD		R.A.K.	J.B.H.	3/89	

REINFORCING SCHEDULE WEST ABUTMENT

FEMA REGION	STATE	PROJECT	
5	OHIO		



SUMMIT COUNTY
SUM 76-11.57

NOTE:

SEE SHEET NO. 106/120 FOR BENDING DIAGRAM TYPES.

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
1A1101	8	12'-9"	11		8						542
1A1102	6	29'-5"	ST.	6							938
1A1103	16	21'-9"	ST.	12	4						1849
1A1104	12	12'-3"	ST.	12							781
1A1105	8	25'-6"	ST.		8						1084
1A1106	18	13'-8"	11	18		2'-0"	11'-0"	4'-0"			1307
1A1107	8	15'-9"	11		8	2'-0"	12'-4"	6'-0"			669
1A1108	4	18'-9"	ST.		4						398
1A1109	6	26'-5"	ST.	6							842
1A1110	18	16'-8"	11	18		2'-0"	13'-10"	5'-0"			1594
1A901	5	10'-0"	ST.		5						170
1A902	5	17'-0"	ST.		5						289
1A903	23	32'-8"	ST.		23						2,555
1A904	22	34'-6"	5		22			32'-8"			2,581
1A905	1 SET	24'-0" TO	ST.	1 SET							768
	OF 8	32'-6"		OF 8				1'-2 5/8"			
1A906	1 SET	18'-3" TO	ST.	1 SET				9 3/4"			1,119
	OF 14	28'-9"		OF 14							
1A907	1 SET	22'-3" TO	ST.	1 SET				1'-7"			335
	OF 4	27'-0"		OF 4							
1A908	1 SET	20'-3" TO	ST.	1 SET				9 3/8"			808
	OF 10	27'-3"		OF 10							
1A909	58	24'-0"	5	24	34		21'-6"				4,732
1A910	1	23'-6"	5	1			21'-10"				80
1A911	1 SET	21'-3" TO	5	1 SET			18'-9" TO	9"			224
	OF 3	22'-9"		OF 3			20'-3"				
1A912	4	9'-3"	4	4			8'-0"				126
1A913	1 SET	14'-9" TO	4	1 SET			13'-6" TO	9"			158
	OF 3	16'-3"		OF 3			15'-0"				
1A914	1 SET	17'-3" TO	4	1 SET			16'-0" TO	7 1/2"			182
	OF 3	18'-6"		OF 3			17'-3"				
1A915	1 SET	19'-6" TO	4	1 SET			18'-3" TO	7 1/2"			205
	OF 3	20'-9"		OF 3			19'-6"				
1A916	2	5'-3"	4	2			4'-0"				36
1A917	1 SET	7'-6" TO	5	1 SET			5'-0" TO	1'-0"			87
	OF 3	9'-6"		OF 3			7'-0"				
1A918	1 SET	11'-0" TO	5	1 SET			8'-6" TO	1'-1 1/2"			124
	OF 3	13'-3"		OF 3			10'-9"				
1A919	1	14'-6"	5	1			12'-0"				49
1A920	1	16'-0"	5	1			13'-6"				54
1A921	1	26'-6"	5	1			24'-0"				90
1A922	1 SET	24'-2" TO	10	1 SET			22'-3" TO	1'-9" TO	1'-6" TO	6"	544
	OF 6	29'-2"		OF 6			24'-9"	3'-9"	2'-10"		
1A923	1 SET	17'-0" TO	4	1 SET			15'-9" TO			10 1/4"	390
	OF 6	21'-3"		OF 6			20'-0"				
1A924	1 SET	22'-3" TO	4	1 SET			21'-0" TO	7 1/2"			233
	OF 3	23'-6"		OF 3			22'-3"				
1A925	1 SET	24'-6" TO	4	1 SET			23'-3" TO	9"			258
	OF 3	26'-0"		OF 3			24'-9"				
1A926	1	24'-9"	4	1			23'-6"				84
1A927	1	26'-9"	4	1			25'-6"				91
1A928	1	27'-6"	4	1			26'-3"				94
1A929	1 SET	19'-8" TO	10	1 SET			14'-8" TO	4'-3" TO	3'-3" TO	6"	454
	OF 6	24'-10"		OF 6			17'-2"	6'-3"	5'-0"		
1A930	1 SET	26'-0" TO	10	1 SET			17'-9" TO	6'-9" TO	5'-3" TO	5"	274
	OF 3	27'-8"		OF 3			18'-7"	7'-6"	5'-9"		
1A931	1 SET	28'-11" TO	10	1 SET			19'-3" TO	7'-10" TO	6'-2" TO	5 1/2"	303
	OF 3	30'-7"		OF 3			20'-2"	8'-6"	6'-8"		
1A932	1	31'-9"	10	1			20'-9"	9'-0"	7'-0"		108
1A933	1	32'-5"	10	1			21'-0"	9'-4"	7'-4"		110
1A934	20	6'-0"	4	20			4'-9"				408
1A935	10	8'-9"	1		10		1'-7"	7'-6"			298
1A801	20	9'-4"	10	20			6'-0"	3'-0"	1'-9"		498
1A802	40	10'-0"	ST.		40						1,068
1A803	10	8'-7"	1	10			1'-4"	7'-6"			229
1A804	5	9'-0"	ST.	5							120
1A805	5	18'-0"	ST.	5							240
1A806	85	12'-3"	2	51	34		2'-2"	5'-3"			2,780
1A807	4	9'-8"	4	4			8'-9"				103
1A808	20	8'-0"	10	20			6'-9"	1'-2"	8"		427

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.	
						A	B	C	D			
1A809	4	10'-5"	4		4						111	
1A810	4	12'-8"	4	4							135	
1A811	1 SET	3'-0" TO	ST.	1 SET						1'-3"	192	
	OF 9	13'-0"		OF 9								
1A812	2	3'-6"	ST.	2							19	
1A813	58	21'-6"	ST.	25	33						3,329	
1A814	1 SET	15'-0" TO	ST.	1 SET						9 3/4"	381	
	OF 8	20'-8"		OF 8								
1A815	1 SET	2'-6" TO	ST.	1 SET						2'-1"	124	
	OF 6	13'-0"		OF 6								
1A816	1	6'-9"	1	1				3'-6"	3'-6"		18	
1A817	4	13'-5"	4		4			12'-6"			143	
1A818	2	17'-5"	4	2				16'-6"			93	
1A819	2	20'-5"	4	2				19'-6"			109	
1A701	17	29'-3"	ST.		17						1,016	
1A702	96	20'-7"	ST.	96							4,039	
1A703	50	10'-1"	ST.	50							1,031	
1A704	17	7'-9"	ST.		17						269	
1A705	3	18'-7"	ST.		3						114	
1A601	26	29'-3"	ST.		26						1,142	
1A604	10	9'-3"	ST.	10							139	
1A605	2	12'-0"	ST.	2							36	
1A606	3	25'-0"	ST.	3							113	
1A607	3 SETS	14'-0" TO	20	3 SETS				2'-2"	4'-9" TO	1'-6"	8 1/2"	3,422
	OF 31	35'-0"		OF 31					15'-3"			
1A608	17	8'-6"	ST.		26						295	
1A609	2 SETS	14'-0" TO	20	2 SETS				2'-2"	4'-9" TO	1'-6"	5 7/8"	1,707
	OF 23	35'-5"		OF 23					15'-6"			
1A610	20	21'-4"	ST.	20							641	
1A611	9"	7'-9"	ST.		9						143	
1A501	47	8'-9"	2	27	20			2'-0"	3'-6"		429	
1A502	21	25'-5"	ST.		21						557	
1A503	23	22'-9"	ST.		23						546	
1A504	1 SET	7'-0" TO	10	1 SET				2'-2" TO	3'-8"	3'-4"	1/2"	202
	OF 26	7'-11"		OF 26				3'-1"				
1A505	21	7'-0"	ST.		21						153	
1A506	9	29'-3"	ST.		9						275	
1A507	26	3'-10"	1	26				2'-0"	2'-0"		104	
1A508	21	5'-1"	2	21				2'-0"	1'-8"		111	
1A509	1	5'-11"	2	1				2'-10"	1'-8"		6	
1A510	1	7'-0"	2	1				3'-11"	1'-8"		7	
1A511	3	7'-10"	2	3				4'-9"	1'-8"		25	
1A512	1 SET	32'-10" TO	ST.	1 SET							3/8"	938
	OF 27	33'-9"		OF 27								
1A513	26	29'-10"	ST.	26							809	
1A514	20	20'-2"	ST.	20							421	
1A515	34	3'-10"	10	34				2'-0"	1'-7"	1'-4"	136	
1A516	28	7'-2"	15	28				2'-0"	3'-3"	1'-7"	1'-8"	209
1A517	1	9'-2"	15	1				2'-10"	3'-11"	2'-3"	1'-8"	10
1A518	1	11'-2"	15	1				3'-11"	4'-9"	3'-1"	1'-8"	12
1A519	3	12'-11"	15	3				4'-9"	5'-5"	3'-9"	1'-8"	40
1A520	19	21'-5"	ST.	19							424	
1A521	3	5'-3"	ST.		3						16	
1A522	8	6'-11"	ST.	8							58	
1A523	16	10'-1"	ST.	16							168	
1A524	3	8'-6"	ST.	16							142	
1A525	4	19'-7"	ST.	4							82	
1A526	3	20'-7"	ST.	3							64	
1A527	12	31'-0"	ST.	12							388	
1A528	6 SETS	6'-6" TO	ST.	6 SETS						4'-6"	666	
	OF 6	29'-0"		OF 6								
1A529	3	32'-9"	ST.	3							102	
1A530	13	6'-5"	3	6	7			5"	5'-0"	1'-2"	87	
1A531	8	23'-6"	ST.		8						196	
1A532	4 SETS	6'-6" TO	ST.	4 SETS						3'-1 1/4"	357	
	OF 6	22'-0"		OF 6								
1A533	11	9'-5"	2	7	4			2'-8"	3'-6"		108	
1A534	6	8'-5"	2	6				1'-8"	3'-6"		53	
1A535	19	7'-0"	10	19				2'-2"	3'-8"	3'-4"	139	
1A536	6	4'-7"	ST.	6							29	

MCCOY ASSOCIATES INC. 107 / 120 CONSULTING ENGINEERS AKRON, OHIO					
<h2 style="margin: 0;">REINFORCING SCHEDULE</h2> <p style="margin: 0;">BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT</p>					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.D.P.	M.R.A.		J.M.H.	J.B.H.	3-31-

REINFORCING SCHEDULE WEST ABUTMENT

FHA REGION	STATE	PROJECT
5	OHIO	



SUMMIT COUNTY
SUM 76-II.57

NOTE:

SEE SHEET NO. 106/120 FOR BENDING
DIAGRAM TYPES.

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
1A537	2	9'-7"	3		2	5"	8'-3"	1'-2"			20
1A538	4	4'-4"	1		4	1'-0"	3'-6"				18
1A540	2	32'-7"	ST.		2						68
1A541	10	31'-9"	ST.		10						331
1A401	77	5'-0"	2	42	35	1'-2"	2'-0"				257
1A402	73	6'-6"	2	40	33	2'-8"	2'-0"				317
TOTAL WEST ABUTMENT (NON-EPOXY COATED BARS) = 62,416											

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
EPOXY COATED BARS											
1EA861	5	29'-3"	ST.		5						390
1EA862	107	4'-11"	13	57	50	2'-9"	1'-5"	1'-0"			1,404
1EA863	10	21'-10"	ST.	10							583
1EA661	13	9'-0"	7	8	5	9"	6"	8"	3'-6"		176
1EA561	47	8'-0"	2	27	20	4'-9"	1'-9"				392
1EA562	14	28'-5"	ST.		14						415
1EA563	7	4'-6"	1		7	2'-0"	2'-8"				33
1EA564	45	7'-10"	2	25	20	1'-5"	3'-4"				367
1EA565	45	13'-8"	2	25	20	1'-5"	6'-3"				641
1EA566	45	6'-6"	2	25	20	11"	2'-11"				305
1EA567	21	19'-5"	ST.	21							425
1EA568	7	3'-10"	1	7		1'-6"	2'-6"				28
1EA569	10	6'-8"	34	5	5	8"	2'-7"	8"	3'-0"		70
1EA570	10	6'-11"	ST.	10							72
1EA571	10	5'-4"	ST.		10						56
1EA572	63	4'-9"	ST.	29	34						312
1EA573	5	8'-8"	ST.		5						45
1EA574	10	16'-0"	ST.	5	5						166
1EA575	5	19'-10"	ST.		5						103
1EA576	32	24'-0"	ST.		32						801
1EA577	62	12'-8"	3	31	31	11"	10'-0"	2'-0"			820
1EA578	77	2'-10"	ST.		77						228
1EA579	92	10'-6"	3	46	46	1'-5"	8'-7"	9"			1,008
1EA580	1 SET OF 6	5'-0" TO 7'-0"	ST.						5"		38
1EA581	16	11'-11"	10	16		7'-4"	1'-2"	3'-6"			199
1EA582	16	27'-3"	ST.	16							455
1EA583	16	12'-6"	ST.	16							209
1EA584	5	20'-5"	ST.	5							106
1EA585	5	8'-2"	ST.	5							43
1EA586	77	3'-6"	ST.	77							281
1EA587	7	20'-5"	10	7		19'-7"	5"	1'-1"			149
1EA588	1	10'-4"	3	1		11"	7'-8"	2'-0"			11
1EA589	6	2'-6"	8	3	3	5"	6"	5"	9"		16
1EA590	6	1'-9"	1	3	3	5"	1'-6"				10
1EA591	6	3'-10"	ST.	3	3						24
1EA592	6	4'-5"	4	3	3	31'-10"					28
1EA593	16	11"	ST.	8	8						16
TOTAL WEST ABUTMENT (EPOXY COATED BARS) = 10,425											

McCoy ASSOCIATES INC. 108/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	M.R.A.		J.M.H.	J.B.H.	3-31-89	

REINFORCING SCHEDULE EAST ABUTMENT

FHWA REGION	STATE	PROJECT			1059 1214
5	OHIO				

SUMMIT COUNTY
SUM 76-11.57

NOTE:
SEE SHEET NO. 106/120 FOR BENDING
DIAGRAM TYPES.

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
2A1001	12	11'-4"	11	12		1'-10"	9'-0"	4'-0"			585
2A1002	24	11'-3"	11		24	1'-10"	8'-10"	4'-2"			1,162
2A1003	18	10'-10"	11		18	1'-10"	8'-8"	3'-6"			839
2A1004	12	14'-4"	11	12		1'-10"	11'-3"	5'-2"			740
2A1005	24	14'-3"	11		24	1'-10"	11'-7"	4'-7"			1,472
2A1006	18	13'-10"	11		18	1'-10"	11'-5"	4'-7"			1,071
2A901	4	14'-0"	ST.		4						190
2A902	11	18'-6"	ST.	5	6						692
2A903	4	21'-4"	ST.	4							290
2A904	12	27'-11"	ST.	12							1,139
2A905	4	9'-0"	ST.		4						122
2A906	4	19'-4"	ST.		4						263
2A907	12	26'-0"	ST.		12						1,061
2A908	6	8'-1"	ST.		6						165
2A909	6	13'-6"	ST.		6						275
2A910	16	24'-0"	ST.		16						1,306
2A911	12	23'-10"	ST.		12						972
2A912	4	9'-8"	ST.		4						131
2A913	4	14'-4"	ST.		4						195
2A914	4	19'-10"	ST.		4						270
2A915	5	10'-4"	ST.	5							176
2A916	4	15'-10"	ST.	4							215
2A917	15	8'-6"	1	10	5	1'-6"	7'-4"				434
2A919	5	11'-6"	ST.		5						196
2A920	1 SET OF 9	7'-0" TO 16'-0"	ST.		1 SET OF 9				1'-1 1/2"		352
2A921	1 SET OF 12	7'-0" TO 17'-0"	ST.		1 SET OF 12				11 1/8"		490
2A922	66	30'-0"	ST.		66						6,732
2A923	1 SET OF 14	12'-0" TO 23'-6"	ST.		1 SET OF 14				11"		845
2A924	1 SET OF 8	17'-0" TO 24'-0"	ST.		1 SET OF 8				1'-0"		558
2A925	3	3'-6"	ST.		3						36
2A926	3	3'-0"	ST.		3						31
2A927	1	6'-3"	5		1		3'-9"				21
2A928	1 SET OF 3	7'-6" TO 9'-6"	5		1 SET OF 3		5'-0" TO 7'-0"		1'-0"		87
2A929	1 SET OF 3	11'-0" TO 13'-0"	5		1 SET OF 3		8'-6" TO 10'-6"		1'-0"		122
2A930	1	14'-3"	5		1		11'-9"				48
2A931	1 SET OF 4	5'-3" TO 7'-6"	5		1 SET OF 4		2'-9" TO 5'-0"		9"		87
2A932	1 SET OF 4	8'-6" TO 11'-3"	5		1 SET OF 4		6'-0" TO 8'-9"		11"		134
2A933	84	24'-0"	5		84		21'-6"				6,854
2A934	1	16'-9"	4		1		15'-6"				57
2A935	1	15'-9"	4		1		14'-6"				54
2A936	1 SET OF 4	11'-6" TO 14'-6"	4		1 SET OF 4		10'-3" TO 13'-3"		1'-0"		177
2A937	1	8'-3"	4		1		7'-0"				28
2A938	1 SET OF 3	13'-3" TO 15'-3"	4		1 SET OF 3		12'-0" TO 14'-0"		1'-0"		145
2A939	1 SET OF 5	16'-6" TO 20'-9"	4		1 SET OF 5		15'-3" TO 19'-6"		1'-0 3/4"		317
2A940	1	16'-6"	ST.		1						56
2A941	28	21'-6"	ST.	28							2,047
2A942	1 SET OF 6	6'-9" TO 20'-3"	ST.	1 SET OF 6					2'-8"		275
2A943	7	33'-5"	ST.	7							795
2A944	1 SET OF 15	27'-6" TO 33'-3"	ST.	1 SET OF 15					5"		1,549
2A945	22	22'-6"	10	22		16'-6"	2'-3"	5'-9"			1,683
2A946	1 SET OF 7	5'-3" TO 19'-6"	5	1 SET OF 7		2'-9" TO 17'-0"			2'-4 1/2"		295
2A947	14	24'-0"	5	14		21'-6"					1,142
2A948	1 SET OF 3	16'-4" TO 20'-6"	10	1 SET OF 3		14'-6" TO 18'-9"	9"	2'-0"	2'-1 1/2"		188
2A949	11	16'-5"	10	11		12'-6"	1'-6"	4'-0"			614
2A950	3	11'-3"	4	3		10'-0"					115
2A951	33	5'-6"	4	33		4'-3"					617

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
2A952	6	10'-2"	10	6		6'-3"	1'-6"	4'-0"			207
2A953	2	24'-4"	10	2		18'-6"	2'-3"	5'-9"			165
2A954	1 SET OF 5	22'-10" TO 23'-10"	10	1 SET OF 5		17'-0" TO 18'-0"	2'-3"	5'-9"		3"	397
2A955	1	8'-6"	4	1		2'-3"					29
2A956	1 SET OF 5	20'-7" TO 22'-5"	10	1 SET OF 5		14'-0" TO 15'-9"	2'-6"	6'-6"		5 1/4"	366
2A957	2	13'-9"	4	2		12'-6"					94
2A958	14	22'-3"	4	14		21'-0"					1,059
2A959	1	20'-3"	4	1		19'-0"					69
2A960	4	10'-11"	ST.								148
2A801	88	10'-3"	2	32	56	2'-2"	4'-3"				2,408
2A802	27	6'-0"	ST.		27						433
2A803	21	9'-11"	10	21		6'-7"	3'-2"	1'-10"			556
2A804	21	6'-6"	10	21		3'-3"	3'-2"	1'-10"			364
2A805	7	12'-1"	2	7		1'-8"	5'-5"				226
2A806	20	4'-4"	ST.		20						231
2A807	20	6'-9"	ST.								360
2A701	18	33'-0"	ST.	18							1,214
2A702	30	19'-9"	ST.		30						1,211
2A703	17	27'-11"	ST.		17						970
2A704	17	28'-5"	ST.		17						987
2A705	40	7'-0"	4	8	32	6'-2"					572
2A706	2	9'-6"	ST.	2							39
2A707	3	19'-3"	ST.	3							118
2A708	18	12'-0"	ST.	18							442
2A709	6	4'-0"	ST.		6						49
2A710	1 SET OF 7	3'-0" TO 8'-6"	ST.		1 SET OF 7				11"		82
2A711	1 SET OF 8	3'-6" TO 11'-3"	ST.		1 SET OF 8				1'-1 1/4"		121
2A712	85	21'-6"	ST.		85						3,735
2A713	1 SET OF 5	15'-3" TO 20'-3"	ST.		1 SET OF 5				1'-3"		181
2A714	1 SET OF 6	3'-0" TO 13'-0"	ST.		1 SET OF 6				2'-0"		98
2A715	1	5'-10"	1	1		3'-0"	3'-0"				12
2A716	3	22'-9"	ST.	3							140
2A717	2	10'-0"	ST.	2							41
2A718	17	10'-8"	ST.	17							371
2A719	66	26'-0"	ST.	66							3,508
2A720	4	15'-4"	4	4		14'-6"					125
2A721	1 SET OF 8	4'-10" TO 12'-10"	4	1 SET OF 8		4'-0" TO 12'-0"			1'-1 3/4"		144
2A722	1 SET OF 6	6'-1" TO 10'-4"	4	1 SET OF 6		5'-3" TO 9'-6"			10 1/4"		101
2A723	1 SET OF 4	11'-4" TO 14'-1"	4	1 SET OF 4		10'-6" TO 13'-3"			11"		104
2A724	1	27'-4"	10	1		17'-4"	6'-9"	7'-7"			56
2A725	1	12'-10"	4	1		12'-0"					26
2A726	1	12'-0"	ST.	1							25
2A727	1	27'-1"	10	1		17'-3"	6'-9"	7'-4"			55
2A728	1 SET OF 8	12'-11" TO 18'-4"	10	1 SET OF 8		10'-6" TO 13'-0"	1'-9" TO 3'-8"	1'-11" TO 4'-1"	4 1/4"		256
2A729	1 SET OF 6	19'-2" TO 22'-9"	10	1 SET OF 6		13'-6" TO 14'-9"	4'-0" TO 5'-6"	4'-4" TO 6'-0"	3"		257
2A730	1 SET OF 4	23'-5" TO 26'-0"	10	1 SET OF 4		15'-0" TO 17'-0"	5'-9" TO 6'-2"	6'-4" TO 6'-9"	8"		202
2A731	20	5'-1"	4	20		4'-3"					208
2A732	14	23'-3"	ST.	14							665
2A733	1	14'-0"	10	1		11'-8"	1'-0"	2'-3"			29
2A734	1	12'-9"	10	1		11'-3"	8"	1'-6"			26
2A735	6	35'-2"	5	6		33'-6"					431
2A736	1 SET OF 6	25'-7" TO 27'-4"	4	1 SET OF 6		24'-9" TO 26'-6"			4 1/4"		324
2A737	1 SET OF 11	14'-10" TO 18'-7"	4	1 SET OF 11		14'-0" TO 17'-9"			4 1/2"		376

McCOY ASSOCIATES INC. 109/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	M.R.A.		J.M.H.	J.B.H.	3-31-89	

REINFORCING SCHEDULE WINGWALLS

FHWA REGION	STATE	PROJECT	
5	OHIO		

1062
1214

SUMMIT COUNTY
SUM 76-11.57

MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
NORTHWEST WINGWALL (NON-EPOXY COATED BARS)									
1W1101	8	17'-3"	11						733
1W1102	8	20'-3"	11						861
1W1001	33	13'-6"	ST.						1,917
1W1002	4	15'-8"	ST.						270
1W1003	8	19'-0"	ST.						654
1W1004	12	10'-8"	11						551
1W1005	8	13'-11"	ST.						479
1W901	33	22'-0"	5						2,468
1W902	38	13'-7"	ST.						1,755
1W903	38	13'-9"	ST.						1,777
1W904	19	16'-3"	ST.						1,050
1W905	43	10'-3"	11						1,498
1W906	36	8'-1"	2						989
1W907	4	19'-11"	13						271
1W801	39	31'-6"	ST.						3,280
1W802	16	11'-2"	ST.						358
1W803	15	19'-6"	ST.						781
1W804	14	8'-3"	2						308
1W805	33	17'-4"	5						1,527
1W806	15	9'-2"	10						367
1W807	15	9'-1"	10						364
1W808	42	18'-9"	ST.						2,103
1W809	14	16'-8"	ST.						626
1W810	20	13'-7"	ST.						725
1W811	20	12'-6"	ST.						667
1W812	10	15'-5"	ST.						412
1W813	16	10'-10"	ST.						347
1W814	8	16'-10"	13						360
1W815	7	15'-8"	ST.						293
1W816	34	12'-1"	10						1,097
1W701	33	15'-6"	ST.						1,045
1W702	22	8'-4"	2						375
1W703	44	13'-5"	ST.						207
1W704	18	18'-7"	ST.						502
1W705	20	9'-11"	ST.						365
1W706	20	10'-2"	ST.						416
1W707	7	13'-8"	ST.						196
1W708	43	8'-3"	ST.						725
1W601	33	19'-6"	ST.						967
1W602	53	12'-6"	2						995
1W603	30	31'-6"	ST.						1,419
1W604	20	13'-7"	ST.						408
1W605	24	11'-10"	ST.						427
1W606	12	14'-0"	ST.						252
1W607	22	18'-0"	ST.						595
1W608	20	9'-8"	ST.						293
1W609	24	9'-6"	ST.						342
1W610	15	5'-10"	10						131
1W611	15	7'-4"	10						165
1W612	15	12'-1"	10						272
1W613	32	14'-10"	5						713
1W614	42	10'-4"	5						652
1W615	43	8'-11"	11						576
1W616	22	9'-9"	11						322
1W617	2 SETS	9'-0" TO	20						1,826
	OF 32	29'-0"							
1W618	13	9'-0"	ST.						176

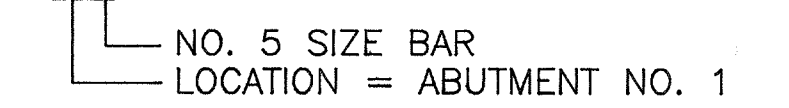
MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
1W501	8	8'-5"	2						70
1W502	24	17'-11"	ST.						449
1W503	8	15'-9"	ST.						132
1W504	39	13'-8"	ST.						556
1W505	99	4'-9"	26						490
1W506	195	6'-4"	33						1,288
1W507	7	31'-10"	ST.						233
1W508	102	4'-11"	2						523
1W509	22	14'-5"	ST.						331
1W510	22	13'-5"	ST.						308
1W511	7	24'-9"	ST.						181
1W512	10	17'-8"	ST.						184
1W513	91	31'-6"	ST.						2,990
1W514	22	7'-0"	ST.						161
1W515	10	12'-0"	2						125
1W516	22	12'-2"	10						279
1W517	20	5'-2"	10						108
1W518	10	10'-8"	2						106
1W519	39	9'-0"	ST.						366
1W520	27	13'-0"	ST.						366
1W521	22	8'-6"	ST.						195
1W522	18	16'-6"	ST.						310
1W523	15	6'-8"	ST.						104
1W524	4	15'-8"	ST.						65
1W525	6	23'-8"	ST.						148
1W526	2 SETS	2'-8" TO	ST.						39
	OF 6	3'-6"							
1W527	29	19'-6"	ST.						590
1W528	4 SETS	5'-9" TO	ST.						537
	OF 7	31'-0"							
1W529	4 SETS	6'-9" TO	ST.						319
	OF 5	23'-10"							
1W530	2 SETS	9'-2" TO	20						843
	OF 25	23'-2"							
1W531	20	6'-11"	10						144
1W532	31	5'-3"	ST.						267
TOTAL NORTHWEST WINGWALL (NON-EPOXY COATED BARS) = 57,057									
NORTHWEST WINGWALL (EPOXY COATED BARS)									
1EW661	96	6'-10"	7						985
1EW561	95	6'-8"	34						661
1EW562	40	31'-8"	ST.						1,321
1EW563	10	11'-8"	ST.						122
1EW564	8	3'-7"	7						30
SERIES	1 SET	4'-4" TO	ST.						40
1EW565	OF 8	5'-2"							
SERIES	1 SET	3'-3" TO	4						30
1EW566	OF 8	3'-10"							
1EW567	4	4'-4"	ST.						18
1EW568	2	14'-2"	39						30
1EW569	6	14'-2"	ST.						89
TOTAL NORTHWEST WINGWALL (EPOXY COATED BARS) = 3,326									

NOTES:

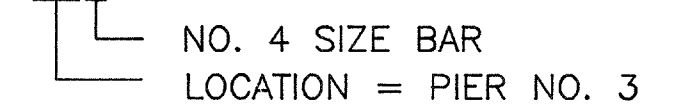
REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1A501



3P401



ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

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.

SEE SHEET NO. 106/120 FOR BENDING DIAGRAM TYPES.

McCOY ASSOCIATES INC. 112/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	CAD		JMH	JBH	3-31-89	

REINFORCING SCHEDULE WINGWALLS

FHWA REGION	STATE	PROJECT	
5	OHIO		

1063
12.14

**SUMMIT COUNTY
SUM 76-11.57**

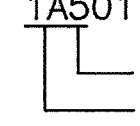
MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
SOUTHWEST WINGWALL (NON-EPOXY COATED BARS)									
2W1101	4	17'-2"	11						365
2W1102	4	11'-11"	11						253
2W1103	4	20'-2"	11						429
2W1104	4	14'-11"	11						317
2W1001	10	13'-6"	ST.						581
2W1002	4	18'-11"	ST.						326
2W1003	2	15'-7"	ST.						134
2W1004	4	19'-6"	ST.						336
2W1005	2	16'-0"	ST.						138
2W901	27	21'-4"	5						1,958
2W902	10	9'-11"	ST.						269
2W903	28	11'-11"	ST.						1,134
2W904	28	13'-7"	ST.						1,293
2W905	9	16'-3"	ST.						497
2W906	11	11'-11"	11						446
2W907	22	9'-1"	2						679
2W801	7	8'-3"	2						154
2W802	21	12'-2"	10						682
2W803	21	11'-1"	10						505
2W804	49	15'-6"	ST.						2,028
2W805	25	9'-1"	10						606
2W806	8	9'-3"	10						198
2W807	36	12'-1"	10						1,161
2W808	20	12'-10"	ST.						685
2W809	20	13'-0"	ST.						694
2W810	21	14'-11"	ST.						836
2W811	7	13'-0"	ST.						243
2W812	21	18'-5"	ST.						1,033
2W813	4	17'-7"	13						188
2W814	4	15'-2"	13						162
2W701	11	8'-7"	ST.						193
2W702	21	19'-6"	ST.						837
2W601	15	19'-6"	ST.						439
2W603	36	12'-6"	2						676
2W604	6	13'-6"	ST.						122
2W605	10	13'-8"	ST.						205
2W606	20	11'-8"	ST.						350
2W607	20	11'-10"	ST.						355
2W608	8	14'-6"	5						174
2W609	1 SET OF 33	9'-0" TO 29'-0"	20						942
2W610	1 SET OF 25	9'-0" TO 29'-0"	20						713
2W501	8	8'-5"	2						70
2W502	10	6'-8"	ST.						70
2W503	29	13'-8"	ST.						413
2W504	12	14'-0"	ST.						175
2W505	4	12'-1"	ST.						50
2W506	12	17'-7"	ST.						220
2W507	10	15'-8"	ST.						163
2W508	4	33'-5"	ST.						139
2W509	78	6'-4"	33						515
2W510	53	4'-9"	26						263
2W511	26	3'-2"	1						86
2W512	20	7'-8"	ST.						160
2W513	6	7'-4"	ST.						46
2W514	9	19'-5"	ST.						182
2W515	2	11'-0"	ST.						23
2W516	2	10'-4"	10						22

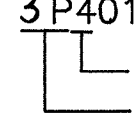
MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
2W517	4	24'-6"	ST.						102
2W518	2	2'-8"	ST.						6
2W519	1 SET OF 5	2'-10" TO 5'-6"	ST.						22
2W520	27	8'-6"	ST.						239
2W521	2 SETS OF 7	6'-4" TO 31'-8"	ST.						278
2W522	2 SETS OF 7	4'-9" TO 24'-4"	ST.						212
2W523	29	4'-11"	2						148
TOTAL SOUTHWEST WINGWALL (NON-EPOXY COATED BARS) = 26,940									
SOUTHWEST WINGWALL (EPOXY COATED BARS)									
2EW661	2 2	6'-10"	7						226
2EW561	2 4	6'-8"	34						167
2EW562	10	31'-8"	ST.						330
2EW563	10	3'-10"	ST.						40
2EW564	4	4'-4"	ST.						18
2EW565	10	3'-7"	7						37
2EW566	6	14'-2"	ST.						89
2EW567	2	14'-2"	39						30
SERIES 1 SET 2EW568 OF 8		3'-3" TO 3'-10"	4						30
2EW569	2	2'-9"	ST.						6
SERIES 1 SET 2EW570 OF 8		4'-4" TO 5'-2"	ST.						40
TOTAL SOUTHWEST WINGWALL (EPOXY COATED BARS) = 1,013									

NOTES:

REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1A501
 NO. 5 SIZE BAR
 LOCATION = ABUTMENT NO. 1

3P401
 NO. 4 SIZE BAR
 LOCATION = PIER NO. 3

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

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.

SEE SHEET NO. 106/120 FOR BENDING DIAGRAM TYPES.

McCOY ASSOCIATES INC. 112A/120					
CONSULTING ENGINEERS AKRON, OHIO					
REINFORCING SCHEDULE					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.D.P.	CAD		J.M.H.	J.B.H.	3-31-89

REINFORCING SCHEDULE WINGWALLS

FHWA REGION	STATE	PROJECT
5	OHIO	

1064
1214

**SUMMIT COUNTY
SUM 76-11.57**

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
NORTHEAST WINGWALL (NON-EPOXY COATED BARS)									
3W1101	4	17'-6"	11		2'-0"	15'-1"	4'-9"		372
3W1102	4	11'-9"	11		2'-0"	9'-7"	3'-9"		250
3W1103	4	20'-6"	11		2'-0"	17'-11"	5'-8"		436
3W1104	4	14'-9"	11		2'-0"	12'-4"	4'-10"		313
3W1001	11	13'-6"	ST.						639
3W1002	4	18'-11"	ST.						326
3W1003	2	12'-7"	ST.						108
3W1004	2	12'-11"	ST.						111
3W1005	4	19'-5"	ST.						334
3W901	17	22'-0"	5		19'-6"				1,272
3W902	9	7'-11"	ST.						242
3W903	31	13'-10"	ST.						1,458
3W904	11	16'-3"	ST.						608
3W905	31	13'-7"	ST.						1,432
3W906	9	10'-8"	11		1'-6"	9'-6"	11"		326
3W907	22	12'-1"	2		1'-8"	5'-6"			302
3W801	39	15'-6"	ST.						1,614
3W802	15	9'-1"	10		8'-3"	11"	6"		364
3W803	10	9'-3"	10		6'-0"	3'-0"	1'-9"		247
3W804	20	12'-10"	ST.						685
3W805	20	13'-0"	ST.						694
3W806	21	16'-0"	ST.						897
3W807	7	14'-1"	ST.						263
3W808	21	19'-6"	ST.						1,097
3W809	7	17'-6"	ST.						327
3W810	36	12'-1"	10		11'-3"	11"	6"		1,161
3W811	7	8'-3"	2		1'-8"	3'-6"			154
3W812	4	19'-2"	13		2'-6"	15'-9"	8'-5"		205
3W813	4	16'-2"	13		2'-6"	13'-0"	5'-0"		173
3W814	15	6'-6"	10		3'-3"	3'-2"	1'-10"		260
3W701	11	9'-0"	ST.						202
3W601	24	19'-6"	ST.						703
3W602	17	14'-10"	5		13'-6"				379
3W603	11	9'-6"	ST.						157
3W604	36	12'-6"	2		9'-9"	1'-6"			676
3W605	20	11'-8"	ST.						351
3W606	20	11'-10"	ST.						355
3W607	10	14'-0"	ST.						210
3W608	7	13'-6"	ST.						142
3W609	1 SET OF 36	9'-0" TO 29'-0"	20		1'-8"	2'-6" TO 12'-6"	1'-6"		1,027
3W610	1 SET OF 27	9'-0" TO 29'-0"	20		1'-8"	2'-6" TO 12'-6"	1'-6"		771
3W501	4	8'-5"	2		1'-8"	3'-6"			35
3W503	27	8'-6"	ST.						239
3W504	9	6'-8"	ST.						63
3W505	31	13'-8"	ST.						442
3W506	12	15'-2"	ST.						190
3W507	4	13'-3"	ST.						55
3W508	12	18'-7"	ST.						233
3W509	4	16'-8"	ST.						70
3W510	57	4'-9"	26		2'-0"	1'-2"	1'-5"	6"	282
3W511	86	6'-4"	33		2'-8"	7"	1'-5"	1'-5"	568
3W512	3	33'-4"	ST.						104
3W513	31	4'-11"	2		1'-2"	2'-0"			159
3W514	2	25'-11"	ST.						54
3W515	28	7'-8"	ST.						224
3W516	2	9'-6"	ST.						20
3W517	6	15'-8"	ST.						98

MARK	NO. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
3W518	6	3'-2"	ST.						20
3W519	2 SETS OF 3	3'-9" TO 5'-3"	ST.					9"	28
3W520	2	10'-10"	10	2'-6"	4'-0"	7'-6"			23
3W521	9	21'-9"	ST.						204
3W522	2 SETS OF 7	6'-6" TO 32'-6"	ST.					4'-4"	285
3W523	2 SETS OF 7	5'-3" TO 26'-0"	ST.					3'-5"	228
3W524	4	5'-3"	ST.						22
NORTHEAST WINGWALL TOTAL (NON-EPOXY COATED BARS) = 25,305									
NORTHEAST WINGWALL (EPOXY COATED BARS)									
3EW661	33	6'-10"	7'	9"	6"	8"	2'-5"		339
3EW561	34	6'-8"	34	8"	2'-7"	8"	3'-0"		236
3EW562	10	31'-8"	ST.						330
3EW563	2	15'-7"	10	6'-10"	1'-2"	8'-10"			32
3EW564	8	15'-8"	ST.						131
TOTAL NORTHEAST WINGWALL (EPOXY COATED BARS) = 1,068									

NOTE:

REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1A501

└─ NO. 5 SIZE BAR
└─ LOCATION = ABUTMENT NO. 1

3P401

└─ NO. 4 SIZE BAR
└─ LOCATION = PIER NO. 3

ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

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.

SEE SHEET NO. 106/120 FOR BENDING DIAGRAM TYPES.

McCOY ASSOCIATES INC. 113/120					
CONSULTING ENGINEERS AKRON, OHIO					
REINFORCING SCHEDULE					
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.D.P.	M.R.A.		J.M.H.	J.B.H.	3-31-89

REINFORCING SCHEDULE WINGWALLS

FHWA REGION	STATE	PROJECT	
5	OHIO		

1065
12.14

**SUMMIT COUNTY
SUM 76-11.57**

MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
SOUTHEAST WINGWALL (NON-EPOXY COATED)									
4W1101	8	17'-7"	11						
4W1102	8	20'-7"	11						
4W1001	26	13'-6"	ST.						1,193
4W1002	8	19'-3"	ST.						524
4W1003	4	12'-10"	ST.						175
4W1004	8	14'-0"	ST.						381
4W1005	4	14'-6"	11						250
4W1006	4	11'-3"	11						194
4W1007	2	17'-6"	11						151
4W1008	2	14'-3"	11						123
4W901	33	22'-0"	5						2,468
4W902	30	14'-7"	ST.						1,487
4W903	30	15'-3"	ST.						1,556
4W904	15	16'-4"	ST.						833
4W905	33	8'-8"	11						972
4W906	30	8'-1"	2						824
4W907	4	16'-4"	13						222
4W801	39	31'-8"	ST.						3,298
4W802	14	8'-3"	2						308
4W803	20	13'-10"	ST.						739
4W804	20	14'-7"	ST.						779
4W805	16	15'-5"	ST.						659
4W806	42	17'-7"	ST.						1,972
4W807	14	15'-10"	ST.						592
4W808	30	9'-2"	10						735
4W809	30	9'-1"	10						727
4W810	8	15'-8"	ST.						335
4W811	35	17'-4"	5						1,620
4W812	8	15'-4"	13						328
4W813	30	10'-4"	10						827
4W701	30	11'-10"	ST.						725
4W702	30	11'-2"	ST.						684
4W703	15	19'-2"	ST.						588
4W704	34	15'-6"	ST.						1,077
4W705	34	7'-2"	ST.						498
4W706	22	11'-4"	ST.						509
4W707	22	14'-0"	ST.						630
4W708	22	8'-4"	2						375
4W601	33	19'-6"	ST.						967
4W602	22	12'-8"	ST.						419
4W603	18	13'-5"	ST.						363
4W604	9	14'-0"	ST.						189
4W605	23	18'-5"	ST.						636
4W606	20	10'-8"	ST.						321
4W607	16	11'-5"	ST.						274
4W608	30	17'-6"	ST.						789
4W609	30	15'-8"	ST.						706
4W610	26	14'-6"	5						566
4W611	2 SETS OF 30	9'-0" TO 29'-0"	20					4"	1,712
4W612	13	12'-1"	10						236
4W613	13	5'-10"	10						114
4W614	13	7'-4"	10						143
4W615	30	9'-3"	2						417
4W501	8	8'-5"	2						70
4W502	33	13'-8"	ST.						471
4W503	24	16'-8"	ST.						417
4W504	19	14'-11"	ST.						296
4W505	60	4'-11"	2						933
4W506	130	6'-4"	33						859

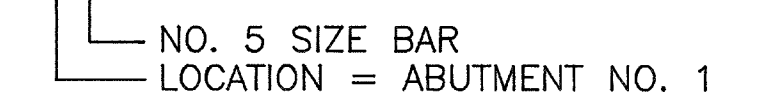
MARK	No. REQ'D	LENGTH	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
4W507	3	29'-8"	ST.						93
4W508	77	4'-3"	26						341
4W509	4	28'-10"	ST.						120
4W510	10	17'-8"	ST.						195
4W511	22	12'-11"	ST.						296
4W512	11	11'-2"	ST.						128
4W513	20	16'-10"	ST.						351
4W514	17	5'-9"	ST.						102
4W515	14	24'-8"	ST.						360
4W516	7	13'-6"	ST.						99
4W518	26	24'-6"	ST.						664
4W519	2 SETS OF 5	2'-8" TO 5'-3"	ST.					7 3/4"	41
4W520	2	26'-9"	ST.						56
4W521	2	28'-9"	ST.						60
4W522	2	10'-4"	10						22
4W523	6	31'-8"	ST.						198
4W524	2	2'-8"	ST.						6
4W525	3	25'-4"	ST.						79
4W526	4	20'-10"	ST.						87
4W527	14	7'-0"	ST.						102
4W528	14	12'-6"	2						183
4W529	4 SETS OF 7	6'-0" TO 29'-3"	ST.					3'-10 1/2"	515
4W530	1 SET OF 25	9'-2" TO 23'-2"	20					3 1/2"	422
4W531	2 SETS OF 5	7'-3" TO 25'-0"	ST.					4'-5 1/2"	168
4W532	1 SET OF 23	9'-2" TO 23'-2"	20					3 7/8"	388
4W533	2 SETS OF 5	6'-1" TO 21'-5"	ST.					3'-5"	142
4W534	17	8'-3"	2						146
4W535	4	8'-3"	22						34
TOTAL SOUTHEAST WINGWALL (NON-EPOXY COATED BARS) = 47,276									
SOUTHEAST WINGWALL (EPOXY COATED BARS)									
4EW661	64	6'-10"	7						657
4EW561	64	6'-8"	34						445
4EW562	22	31'-8"	ST.						727
4EW563	1	31'-7"	10						66
4EW576	2	6'-4"	ST.						13
4EW577	8	5'-4"	11						44
4EW578	5	8'-3"	22						43
4EW579	7	4'-6"	ST.						33
4EW580	7	22'-0"	ST.						161
TOTAL SOUTHEAST WINGWALL (EPOXY COATED BARS) = 2,189									

NOTES:

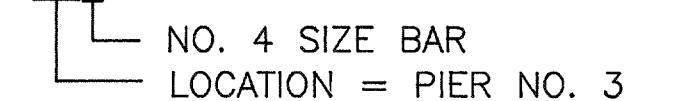
REINFORCING STEEL

BAR SIZE AND LOCATION ARE INDICATED IN THE BAR MARK. THE FIRST DIGIT, IF PRESENT, AND ALPHABETICAL LETTERS INDICATE LOCATION. THE NEXT DIGIT OF A THREE DIGIT SERIES, OR THE NEXT TWO DIGITS OF A FOUR DIGIT SERIES INDICATE BAR SIZE NUMBER.

EXAMPLES: 1A501



3P401



ALL BAR DIMENSIONS ARE GIVEN OUT TO OUT.

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.

SEE SHEET NO. 106/120 FOR BENDING DIAGRAM TYPES.

McCOY ASSOCIATES INC. 113A/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	C.A.P.		J.M.H.	J.B.H.	3-31-89	

REINFORCING SCHEDULE PIER 1

**SUMMIT COUNTY
SUM 76-11.57**

NOTE:

SEE SHEET NO. 106/120 FOR BENDING
DIAGRAM TYPES.

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
PIER 1											
1P1101	120	11'-6"	1	60	60		9'-10"	2'-0"			7,332
1P1102	40	34'-2"	ST.		40						7,261
1P1103	20	34'-6"	ST.		20						3,666
1P1104	20	31'-10"	ST.	20							3,383
1P1105	20	31'-4"	ST.	20							3,329
1P1106	20	31'-1"	ST.	20							3,303
1P1107	6	33'-4"	2		6		30'-0"	2'-0"			1,063
1P1108	6	33'-0"	2	6			29'-8"	2'-0"			1,052
PIER 2											
1P1001	6	33'-0"	2		6		30'-0"	1'-10"			852
1P1002	6	32'-8"	2	6			29'-8"	1'-10"			843
1P801	12	14'-10"	5	12			13'-0"				475
1P701	86	10'-2"	5	54	32		8'-6"				1,787
1P702	74	11'-2"	5	28	46		9'-6"				1,689
1P703	16			16			10'-6"				398
PIER 3											
1P601	6	30'-0"	ST.		6						270
1P602	4	14'-1"	2		4		12'-5"	1'-0"			85
1P603	6	29'-8"	ST.	6							267
1P604	4	10'-4"	1	4			9'-6"	1'-0"			62
1P605	4	7'-7"	1	4			6'-9"	1'-0"			46
1P606	4	8'-1"	2	4			6'-5"	1'-0"			49
1P501	177	15'-2"	14	84	93		3'-8"	3'-8"			2,800
1P502	177	10'-10"	14	84	93		2'-7"	2'-7"			2,000
1P503	15	14'-11"	2	8	7		3'-2"	6'-0"			233
1P504	14	8'-11"	2	7	7		3'-2"	3'-0"			130
1P505	28	12'-10"	14	8	20		2'-0"	4'-2"			375
1P506	30	13'-4"	14	12	18		2'-0"	4'-5"			417
1P507	14	13'-10"		14			2'-0"	4'-8"			202
1P508	6	14'-4"		6			2'-0"	4'-11"			90
1P509	9	27'-9"	ST.		9						260
1P510	30	7'-6"	ST.		30						235
1P511	16	26'-2"	14		16		4'-2"	8'-6"			437
1P512	9	6'-0"	1		9		4'-2"	2'-0"			56
1P513	16	8'-10"	1		16		7'-0"	2'-0"			147
1P514	80	4'-9"	2		80		1'-0"	2'-0"			396
1P515	20	4'-0"	ST.		20						83
1P401	36	3'-8"	ST.	18	18						88
1P402	6	14'-6"	14	3	3		3'-6"	3'-6"			58
TOTAL PIER 1 = 45,219											
PIER 2											
2P1101	120	11'-6"	1	60	60		9'-10"	2'-0"			7,332
2P1102	40	32'-7"	ST.		40						6,925
2P1103	40	32'-11"	ST.		40						6,995
2P1104	20	29'-10"	ST.	20							3,170
2P1105	20	30'-0"	ST.	20							3,188
2P1106	20	30'-7"	ST.	20							3,250
2P1107	12	33'-0"	2	6	6		29'-8"	2'-0"			2,104
PIER 3											
2P1001	12	32'-8"	2	6	6		29'-8"	1'-0"			1,686
2P701	168	10'-2"	5	84	84		8'-6"				3,492
2P601	12	29'-8"	ST.	6	6						534
2P602	4	8'-3"	2		4		6'-7"	1'-0"			50
2P603	4	13'-11"	2	4			12'-3"	1'-0"			84
TOTAL PIER 2 = 44,843											
PIER 3											
3P1101	180	11'-6"	1	60	120		9'-10"	2'-0"			10,998
3P1102	40	31'-6"	ST.	20	20						6,694
3P1103	20	32'-0"	ST.		20						3,400
3P1104	20	32'-1"	ST.		20						3,409
3P1105	6	33'-0"	2		6		29'-8"	2'-0"			1,052
3P1106	48	13'-6"	ST.	48							3,443
3P1107	88	28'-2"	ST.	88							13,169
3P1108	24	32'-8"	ST.	24							4,165
3P1109	24	32'-10"	ST.	24							4,187
3P1110	6	15'-0"	ST.	6							478
3P1111	8	32'-0"	2	8			28'-8"	2'-0"			1,360
3P1112	8	33'-0"	2	8			29'-8"	2'-0"			1,403
3P1113	69	19'-8"	5	14	55		16'-6"				7,210
3P1114	20	31'-1"	ST.	20							3,303
3P1115	40	31'-2"	ST.	20	20						6,624
3P1116	20	31'-8"	ST.		20						3,365
3P1117	20	32'-3"	ST.		20						3,427
3P1001	6	32'-8"	2		6		29'-8"	1'-10"			843
3P1002	61	19'-4"	5	30	31		16'-6"				5,075
PIER 4											
3P901	24	34'-10"	5	12	12		31'-8"				2,842
PIER 5											
3P801	22	11'-10"	5		22		10'-0"				695
PIER 6											
3P701	48	10'-2"	5		48		8'-6"				997
3P702	24	11'-5"	5		24		9'-9"				560
3P703	49	11'-2"	5	49			9'-6"				1,118
PIER 7											
3P601	6	29'-8"	ST.		6						267
3P602	8	9'-3"	10	8			2'-0"	11"	7'-3"		111
3P603	12	29'-8"	ST.	12							535
3P604	4	21'-10"	1		4		21'-0"	1'-0"			131
3P605	12	31'-8"	ST.	6	6						571
3P606	48	9'-10"	5	26	22		8'-6"				710
PIER 8											
3P501	302	15'-2"	14	137	165		3'-8"	3'-8"			4,777
3P502	302	10'-10"	14	137	165		2'-7"	2'-7"			3,412
3P503	10	14'-0"	14		10		2'-0"	4'-9"			146
3P504	28	13'-6"	14		28		2'-0"	4'-6"			394
3P505	8	12'-10"	14		8		2'-0"	4'-2"			107
3P506	23	14'-11"	2	8	15		3'-2"	6'-0"			358
3P507	2 SETS	11'-6" TO	14	2 SETS			2'-0"	3'-6" TO		3/4"	502
OF 19		13'-8"		OF 19				4'-7"			
3P508	16	14'-0"	14		16		2'-0"	4'-9"			234
3P509	2 SETS	12'-2" TO	10	2 SETS			2'-0"	3'-10" TO		3/4"	525
OF 19		14'-4"		OF 19				4'-11"			
3P510	40	15'-2"	5	20	20		3'-2"	4'-2"			633
3P511	17	8'-2"	5		17		7'-0"				149
TOTAL PIER 3 = 103,379											
3SP401	4	24'-9"	38				24'-9"	5'-0"	2"		

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
PIER 1											
2P501	165	15'-2"	14	78	87		3'-8"	3'-8"			2,610
2P502	165	10'-10"	14	78	87		2'-7"	2'-7"			1,864
2P503	40	12'-10"	14	8	32		2'-0"	4'-2"			535
2P504	6	13'-6"	14		6		2'-0"	4'-6"			84
2P505	10	13'-4"	14	10			2'-0"	4'-5"			139
2P506	14	13'-10"	14	14			2'-0"	4'-8"			202
2P507	6	14'-4"	14	6			2'-0"	4'-11"			90
2P508	14	8'-11"	2	7	7		3'-2"	3'-0"			130
2P509	15	14'-11"	2	8	7		3'-2"	6'-0"			233
PIER 2											
P401	36	3'-8"	ST.	18	18						88
P402	6	14'-6"	14	3	3		3'-6"	3'-6"			58
TOTAL PIER 2 = 44,843											
PIER 3											
3P1101	180	11'-6"	1	60	120		9'-10"	2'-0"			10,998
3P1102	40	31'-6"	ST.	20	20						6,694
3P1103	20	32'-0"	ST.		20						3,400
3P1104	20	32'-1"	ST.		20						3,409
3P1105	6	33'-0"	2		6		29'-8"	2'-0"			1,052
3P1106	48	13'-6"	ST.	48							3,443
3P1107	88	28'-2"	ST.	88							13,169
3P1108	24	32'-8"	ST.	24							4,165
3P1109	24	32'-10"	ST.	24							4,187
3P1110	6	15'-0"	ST.	6							478
3P											

REINFORCING SCHEDULE PIERS

FHWA REGION	STATE	PROJECT	
5	OHIO		

1067
1214

SUMMIT COUNTY
SUM 76-11.57

NOTE:

SEE SHEET NO. 106/120 FOR BENDING
DIAGRAM TYPES.

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
PIER 4											
4P1101	120	11'-6"	1	60	60						7,332
4P1102	20	30'-6"	ST.		20						3,241
4P1103	20	31'-3"	ST.								3,321
4P1104	20	31'-9"	ST.								3,374
4P1105	40	30'-0"	ST.								6,376
4P1106	20	30'-4"	ST.								3,223
4P1107	12	33'-0"	2	6	6						2,104
4P1001	12	32'-8"	2	6	6						1,686
4P701	90	10'-2"	5	36	54						1,871
4P702	106	12'-2"	5	64	42						2,637
4P601	12	29'-8"	ST.	6	6						534
4P602	4	8'-1"	2		4						49
4P603	4	8'-3"	1		4						50
4P604	4	11'-0"	1		4						66
4P501	159	15'-2"	14	78	81						2,515
4P502	159	10'-10"	14	78	81						1,796
4P503	6	15'-4"	14		6						96
4P504	14	14'-8"	14		14						214
4P505	10	14'-0"	14		10						146
4P506	26	12'-10"	14	18	8						348
4P507	20	13'-4"	14	20							278
4P508	14	8'-11"	2	7	7						130
4P509	16	14'-11"	2	8	8						248
P401	36	3'-8"	ST.	18	18						88
P402	6	14'-6"	14	3	3						58
TOTAL PIER 4 = 41,781											
PIER 5											
5P1101	140	11'-6"	1	60	80						8,554
5P1102	20	27'-4"	ST.		20						2,904
5P1103	20	27'-11"	ST.		20						2,966
5P1104	20	28'-4"	ST.		20						3,011
5P1105	20	29'-1"	ST.		20						3,090
5P1106	6	36'-4"	1		6						1,158
5P1107	6	21'-4"	1		6						680
5P1108	12	29'-10"			12						1,902
5P1109	20	29'-7"	ST.	20							3,144
5P1110	40	29'-4"	ST.	40							6,234
5P1111	6	35'-3"	2	6							1,124
5P1001	6	34'-11"	2	6							901
5P701	32	10'-2"	5	32							665
5P702	51	11'-2"	5	46	128						3,972
5P703	16	12'-2"	5	16							398

MARK	No. REQ'D	LENGTH	TYPE	NORTH	SOUTH	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
5P601	16	26'-2"	ST.		16						629
5P602	8	8'-10"	2		8						106
5P603	8	11'-7"	1		8						139
5P604	4	13'-8"	1		4						82
5P605	4	9'-7"	1		4						58
5P606	4	9'-11"	1								60
5P607	6	31'-11"	ST.	6							288
5P501	174	15'-2"	14	78	96						2,753
5P502	174	10'-10"	14	78	96						1,966
5P503	42	12'-10"	14	36	6						562
5P504	14	13'-4"	14		14						195
5P505	10	14'-0"	14		10						146
5P506	22	14'-10"	14		22						340
5P507	22	15'-6"	14		22						356
5P508	6	13'-2"	14	6							82
5P509	7	8'-11"	2	7							65
5P510	7	14'-11"	2	7							109
P401	30	3'-8"	ST.	18	12						73
P402	4	14'-6"	14	3	1						39
P403	2	13'-6"	14		2						18
P404	6	3'-2"	ST.		6						13
TOTAL PIER 5 = 48,782											

McCOY ASSOCIATES INC. 115/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	M.R.A.		J.B.H.	J.B.H.	3-31-89	

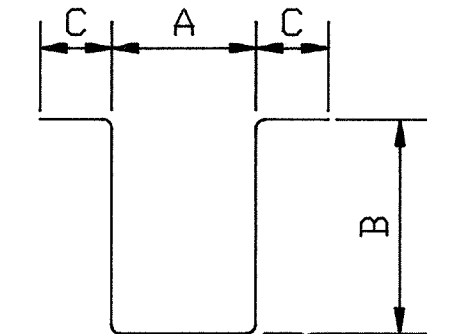
REINFORCING SCHEDULE SUPERSTRUCTURE

FHA REGION	STATE	PROJECT	1069 12.14
5	OHIO		

SUMMIT COUNTY
SUM 76-11.57

MARK	No. REQ'D	LENGTH	TYPE	UNIT 1	UNIT 2	UNIT 3	DIMENSIONS				INCRM.	WEIGHT LBS.
							A	B	C	D		
WESTBOUND LANES												
HAUNCHES												
EH501	300	30'-0"	ST.	72	96	132						9,387
EH502	12	34'-9"	ST.	12								435
EH503	6 SETS	25'-0" TO	ST.		6 SETS						6 3/4"	330
EH504	OF 2	27'-9 3/4"	ST.		OF 2	2						41
EH505	2	19'-7"	ST.			2						48
EH506	2	23'-0"	ST.			2						55
EH507	2	28'-5"	ST.			2						62
EH508	2	29'-11"	ST.			2						69
EH509	2	33'-3"	ST.			2						73
EH516	24	5'-0"	ST.									125
EH401	2,388	3'-8"	20	615	759	1,014						5,849
EH402	2,401	2'-8"	20	615	762	1,024						4,277
WESTBOUND LANES TOTAL = 20,752												

MARK	No. REQ'D	LENGTH	TYPE	UNIT 1	UNIT 2	UNIT 3	DIMENSIONS				INCRM.	WEIGHT LBS.
							A	B	C	D		
EASTBOUND LANES												
HAUNCHES												
EH501	312	30'-0"	ST.	72	96	144						9,762
EH502	12	34'-9"	ST.	12								435
EH503	6 SETS	28'-4 1/2"	ST.		6 SETS						6 3/4"	373
	OF 2	10 31'-2 1/4"	ST.		OF 2	2						41
EH510	2	8'-11"	ST.			2						19
EH511	2	10'-7"	ST.			2						22
EH512	2	14'-1"	ST.			2						29
EH513	2	17'-6"	ST.			2						37
EH514	2	20'-11"	ST.			2						44
EH515	2	24'-5"	ST.			2						51
EH516	24	5'-0"	ST.									125
EH401	2,460	3'-8"	20	615	771	1,074						6,025
EH402	2,447	2'-8"	20	615	768	1,064						4,359
EASTBOUND LANES TOTAL = 21,281												
SIGN SUPPORTS												
EM801	21	3'-1"	8		21		10"	5"	7"	1'-1"		173
EM802	21	3'-6"	10		21		1'-5"	1'-6"	1'-6"			196
EM803	21	2'-5"	1		21		10"	1'-9"				136
EM804	20	2'-9"	ST		20							147
EM501	8	6'-5"	2		8		10"	2'-11"				54
EM502	20	2'-3"	36		20		10"	10"	10"	1/4"		47
EM506	8	14'-8"	ST		8							122
EM402	8	2'-8"	ST		8							22
EL701	2	14'-8"	ST		2							60
EL702	7	12'-4"	22		7		8"	2'-6"	2'-9"	7'-8"		176
EL602	12	6'-10"	1		12		3'-0"	4'-0"				123
EL506	12	6'-0"	11		12		2'-0"	4'-0"	6"			75
EL507	8	14'-8"	ST		8							122
EL508	12	3'-3"	2		12		2'-6"	6"				41
TOTAL 1494												
1494 LBS. TO UNIT THREE ON SHEET [120/120]												
LIGHT SUPPORT												
EM801	22	3'-1"	8		11	11	10"	5"	7"	1'-1"		181
EM802	22	3'-6"	10		11	11	1'-5"	1'-6"	1'-6"			205
EM803	22	2'-5"	1		11	11	10"	1'-9"				142
EM804	20	2'-9"	ST		10	10						147
EM501	12	6'-5"	2		6	6	10"	2'-11"				80
EM502	20	2'-3"	36		10	10	10"	10"	10"	1/4"		47
EM503	14	7'-2"	ST		7	7						105
EM401	16	2'-3"	ST		8	8						38
EL501	8	6'-0"	11		8		2'-0"	4'-0"	6"			50
EL502	8	6'-2"	1		8		4'-0"	2'-4"				51
EL503	12	7'-10"	22		12		6"	2'-1"	1'-10"	1'-4"		98
EL504	8	4'-2"	ST		8							35
EL505	8	3'-11"	2		8		1'-10"	6"				33
LIGHT SUPPORTS TOTAL = 1,212												
460 LBS. TO UNIT TWO ON SHEET [119/120]												
752 LBS. TO UNIT THREE ON SHEET [120/120]												



(20)

NOTE:

ALL HAUNCH REINFORCING STEEL IS CARRIED TO SHEETS [117/120] THRU [120/120].

SIGN SUPPORT AND LIGHT SUPPORT REINFORCING STEEL IS CARRIED TO SHEETS [119/120] THRU [120/120].

FOR BENDING DIAGRAMS, SEE SHEET [120/120].

McCOY ASSOCIATES INC. [116A/120]
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	M.R.A.		J.M.H.	J.B.H.	3-31-89	

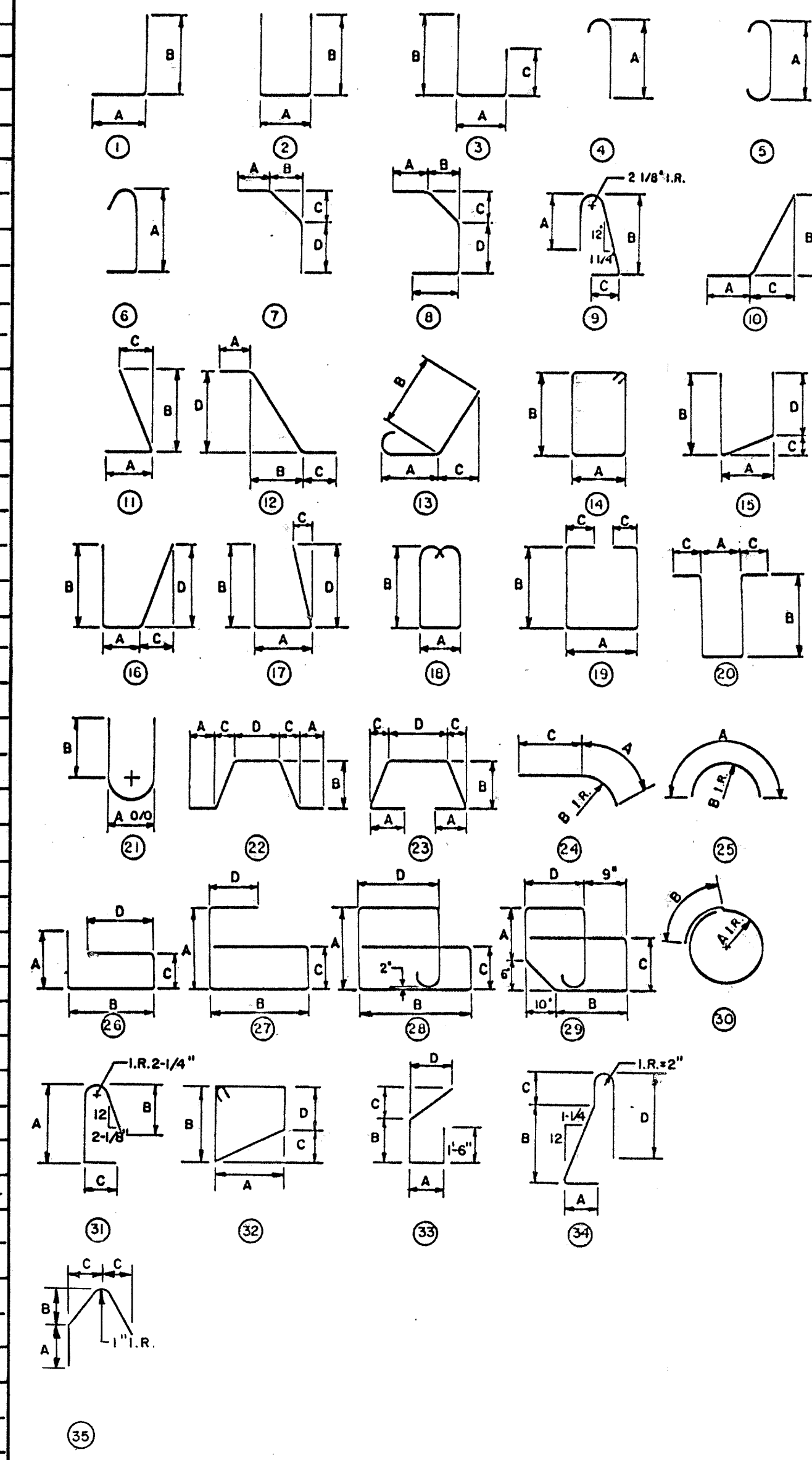
REINFORCING SCHEDULE SUPERSTRUCTURE

FHWA REGION	STATE	PROJECT			
5	OHIO				1070 1214

SUMMIT COUNTY
SUM 76-11.57

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
WESTBOUND SECTION 1											
ES 601	380	19'-2"	ST.		380						10,940
ES 602	381	26'-8"	ST.		381						15,261
ES 603	ISETOF	8'-6" TO	ST.	ISETOF						8 1/8"	1,004
	34	30'-10"		34							
ES 604	2	22'-0"	ST.	2							66
ES 605	ISETOF	7'-9" TO	ST.	ISETOF						3 5/8"	77
	6	9'-3"		6							
ES 623	380	15'-8"	ST.	380							8,942
ES 624	381	19'-8"	ST.	381							11,255
ES 629	1	10'-0"	ST.								15
ES 501	759	15'-0"	ST.	379	380						11,875
ES 502	590	30'-0"	ST.	248	342						18,461
ES 503	ISETOF	8'-6" TO	ST.	ISETOF						8 1/8"	697
	34	30'-10"		34							
ES 504	4	25'-8"	ST.	4							107
ES 505	2	21'-10"	ST.	2							46
ES 506	ISETOF	7'-9" TO	ST.	ISETOF						3 1/2"	53
	6	9'-3"		6							
ES 507	93	35'-6"	ST.	36	57						3443
ES 508	180	5'-8"	ST.	108	72						1064
ES 509	42	15'-8"	ST.	42							686
ES 512	6	9'-7"	ST.	6							60
ES 513	ISETOF	9'-8" TO	ST.	ISETOF						6 1/2"	550
	30	25'-6"		30							
ES 514	ISETOF	9'-2" TO	ST.	ISETOF						8"	111
	9	14'-6"		9							
ES 519	24	14'-8"	ST.		24						367
ES 541	378	19'-10"	ST.	378							7,819
ES 562	381	30'-4"	ST.		381						12,054
ES 573	436	1'-9"	1	230	206	5"	1'-6"				796
ES 574	230	2'-7"	8	230		8"	6"	8"	10"		620
ES 575	206	2'-1"	8		206	5"	6"	5"	9"		448
ES 576	230	3'-10"	ST.		230						919
ES 577	230	4'-5"	4		230	3'-10"					1060
ES 578	255	6'-11"	34	255		7 1/2"	2'-7"	8"	3'-0"		1,840
ES 583	1	10'-0"	ST.								10
ES 581	4	7'-6"	ST.		4						31
ES 401	790	30'-0"	ST.	324	466						15,832
ES 402	95	25'-0"	ST.	39	56						1,586
ES 403	100	33'-6"	ST.	41	59						2,238
ES 404	4	25'-2"	ST.	4							67
ES 405	ISETOF	9'-4" TO	ST.	ISETOF						6"	367
	32	25'-0"		32							
ES 406	ISETOF	8'-10" TO	ST.	ISETOF						8"	69
	9	14'-2"		9							
HAUNCHES - SEE SHEET	116A/120										5,290
WESTBOUND SECTION 1 TOTAL*											136,116

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
WESTBOUND SECTION 2											
ES 601	474	19'-2"	ST.		474						13,646
ES 602	470	26'-8"	ST.		470						18,825
ES 623	466	15'-8"	ST.	466							10,966
ES 624	469	19'-8"	ST.	469							13,854
ES 501	943	15'-0"	ST.	467	476						14,753
ES 502	776	30'-0"	ST.	320	456						24,281
ES 508	190	5'-8"	ST.	114	76						1,123
ES 509	58	15'-8"	ST.	42	16						947
ES 516	ISETOF	25'-0 7/8" TO	ST.	ISETOF						1 3/16"	1,485
	53	28'-8"		53							
ES 517	10	8'-8"	ST.	6	4						90
ES 519	12	14'-8"	ST.		16						184
ES 561	464	19'-10"	ST.	464							9,598
ES 562	472	30'-4"	ST.		472						14,933
ES 563	4	19'-11"	ST.	4							83
ES 565	4	28'-8"	ST.		4						120
ES 566	4	8'-9"	ST.		4						37
ES 572	6	14'-8"	ST.	6							92
ES 573	506	1'-9"	1	250	256	5"	1'-6"				923
ES 574	250	2'-7"	8	250		8"	6"	8"	10"		674
ES 575	256	2'-1"	8		256	5"	6"	5"	9"		556
ES 576	283	3'-10"	ST.		283						1,131
ES 577	283	4'-5"	4		283	3'-10"					1,304
ES 578	277	6'-11"	34	277		7 1/2"	2'-7"	8"	3'-0"		1,998
ES 579	ISETOF	23'-7" TO	ST.	ISETOF						1 3/16"	912
	36	20'-5 1/2"		36							
ES 511	4	7'-2"	ST.								30
ES 582	89	5'-0"	ST.	40	49						464
ES 401	1085	30'-0"	ST.	445	640						21,744
ES 408	95	11'-0"	ST.	39	56						698
ES 409	ISETOF	23'-5 1/4" TO	ST.	ISETOF						3/4"	975
	59	26'-0"		59							
ES 428	ISETOF	20'-0" TO	ST.	ISETOF						3/4"	595
	41	23'-5"		41							
ES 430	100	5'-0"	ST.	45	55						334
HAUNCHES - SEE SHEET	116A/120										6,613
WESTBOUND SECTION 2 TOTAL*											164,023



McCOY ASSOCIATES INC. 117/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	E.B.		G.C.K.	J.B.H.	3-31-89	

REINFORCING SCHEDULE SUPERSTRUCTURE

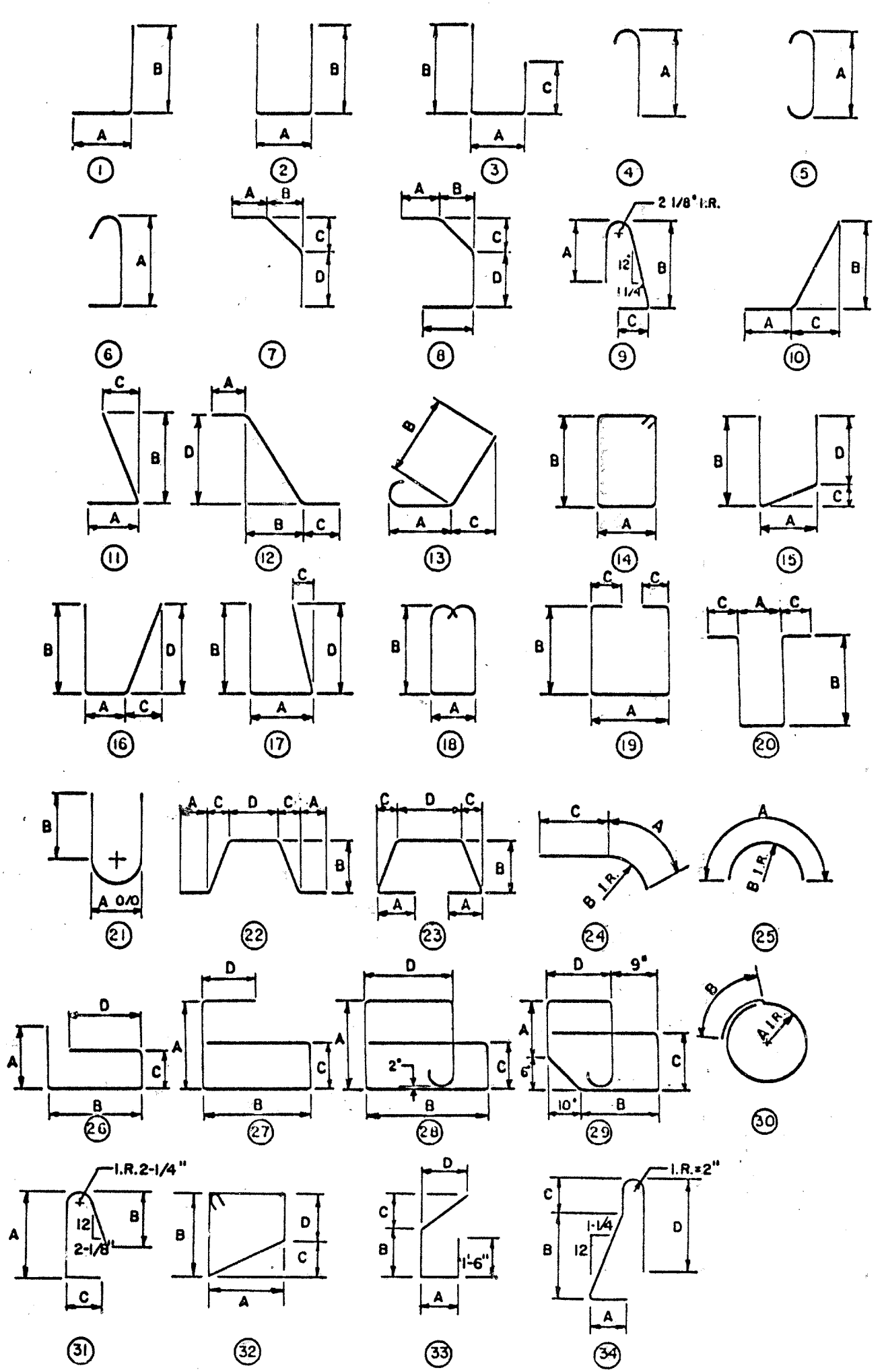
FHWA REGION	STATE	PROJECT
5	OHIO	

1072
1214

SUMMIT COUNTY
SUM 76 - II.57

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
EASTBOUND SECTION 1											
ES 601	382	19'-2"	ST.		382						10,997
ES 602	384	26'-8"	ST.		384						15,380
ES 623	382	15'-8"	ST.	382							8,989
ES 624	383	19'-8"	ST.	383							11,314
EASTBOUND SECTION 2											
ES 501	763	15'-0"	ST.	381	382						11,937
ES 502	582	30'-0"	ST.	240	342						18,211
ES 507	97	35'-6"	ST.	40	57						3,592
ES 508	174	5'-8"	ST.	102	72						1,028
ES 509	36	15'-8"	ST.	36							588
ES 510	6	7'-10"	ST.	6							49
ES 519	24	14'-8"	ST.		24						367
ES 561	380	19'-10"	ST.	380							7,861
ES 562	384	30'-4"	ST.		384						12,149
ES 573	413	1'-9"	1	207	206	5"	1'-6"				754
ES 574	207	2'-7"	8	207		8"	6"	8"	10"		558
ES 575	206	2'-1"	8		206	5"	6"	5"	9"		448
ES 576	230	3'-10"	ST.		230						920
ES 577	230	4'-5"	4		230	3'-10"					1,060
ES 578	230	6'-11"	34	230		7 1/2"	2'-7"	8"	3'-0"		1,659
ES 583	6	8'-4"	ST.								512
ES 581	4	7'-6"	ST.		4						31
ES 401	790	30'-0"	ST.	324	466						15,832
ES 402	95	25'-0"	ST.	39	56						1,587
ES 403	100	33'-6"	ST.	41	59						2,238
HAUNCHES - SEE SHEET 110A/120											5,290
EASTBOUND SECTION 1 TOTAL											132,891
EASTBOUND SECTION 2											
ES 601	476	19'-2"	ST.		476						13,703
ES 602	479	26'-8"	ST.		479						19,186
ES 623	359	15'-8"	ST.	359							8,448
ES 624	482	19'-8"	ST.	482							14,238
ES 625	125	17'-5"	ST.	125							3,270
EASTBOUND SECTION 3											
ES 601	645	19'-2"	ST.		645						18,569
ES 602	664	26'-8"	ST.	6	658						26,595
ES 612	1142	28'-0"	ST.	1142							48,028
ES 613	418	38'-0"	ST.	418							14,754
ES 614	12	17'-0"	ST.	12							180
ES 615	15	25'-0"	ST.	15							377
ES 616	4	8'-0"	ST.	4							45
ES 617	4SETS	3'-0"	ST.	4SETS							1,832
ES 618	1	11'-0"	ST.	1							4,495
ES 619	1	4'-0"	ST.	1							3,753
ES 620	51	15'-0"	ST.	51							728
ES 621	6	18'-0"	ST.	6							140
ES 622	1	13'-6"	ST.	1							20
ES 511	8	7'-2"	ST.		8						60
ES 517	10	8'-8"	ST.		10						90
ES 501	645	15'-0"	ST.		645						10,091
ES 502	1431	30'-0"	ST.	831	600						44,776
ES 508	264	5'-8"	ST.	180	84						1,560
ES 509	52	15'-8"	ST.	36	16						850
ES 510	6	7'-10"	ST.	6							49
ES 519	54	14'-8"	ST.	30	24						826
ES 522	6	12'-6"	ST.	6							78
ES 531	4	11'-8"	ST.		4						49
ES 532	1	19'-0"	ST.	1							20
ES 533	4	36'-6"	ST.	4							102
ES 534	4	33'-6"	ST.	4							94

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
ES 575	256	2'-1"	8		256	5"	6"	5"	9"		556
ES 576	283	3'-10"	ST.		283						1,131
ES 577	283	4'-5"	4		283	3'-10"					1,304
ES 578	291	6'-11"	34	291		7 1/2"	2'-7"	8"	3'-0"		2,099
ES 580	53	7'-2"	ST.		53						30
ES 511	4	7'-2"	ST.		4						30
ES 582	89	5'-0"	ST.	40	49						464
ES 430	100	5'-0"	ST.	45	55						334
ES 401	1085	30'-0"	ST.	445	640						21,743
ES 407	41	29'-7 1/8"	ST.	41							845
ES 408	95	11'-0"	ST.	39	56						698
ES 429	59	25'-11"	ST.	59							1,093
HAUNCHES - SEE SHEET 116A/120											6,696
LIGHT SUPPORT - SEE SHEET 116A/120											460
EASTBOUND SECTION 2 TOTAL											108,412
EASTBOUND SECTION 3											
ES 601	645	19'-2"	ST.		645						18,569
ES 602	664	26'-8"	ST.	6	658						26,595
ES 612	1142	28'-0"	ST.	1142							48,028
ES 613	418	38'-0"	ST.	418							14,754
ES 614	12	17'-0"	ST.	12							180
ES 615	15	25'-0"	ST.	15							377
ES 616	4	8'-0"	ST.	4							45
ES 617	4SETS	3'-0"	ST.	4SETS							1,832
ES 618	1	11'-0"	ST.	1							4,495
ES 619	1	4'-0"	ST.	1							3,753
ES 620	51	15'-0"	ST.	51							728
ES 621	6	18'-0"	ST.	6							140
ES 622	1	13'-6"	ST.	1							20



McCOY ASSOCIATES INC. 119/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.P.	E.B.		G.C.K.	JBH	3-31-87	

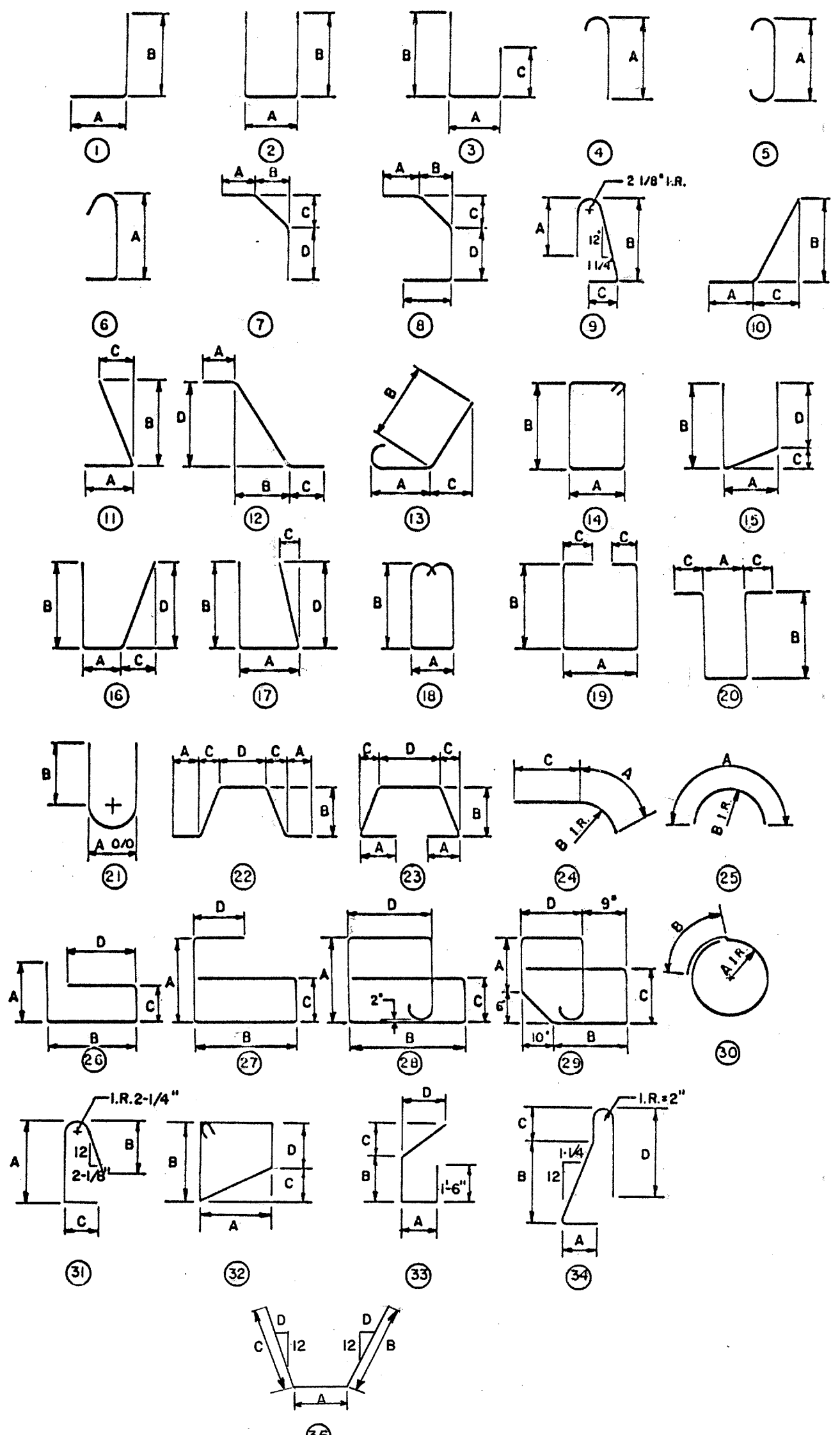
REINFORCING SCHEDULE SUPERSTRUCTURE

FHWA REGION	STATE	PROJECT			
5	OHIO				1073 1214

SUMMIT COUNTY
SUM 76-II-57

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.
						A	B	C	D		
EASTBOUND SECTION 3											
ES 535	6	9'-0" TO 33'-0"	ST.	6						4'-9 5/8"	131
ES 536	7	10'-6" TO 32'-0"	ST.	7						3'-7"	155
ES 537	8	8'-0" TO 35'-0"	ST.	8						3'-10 1/4"	179
ES 538	8	9'-6" TO 32'-0"	ST.	8						3'-2 5/8"	173
ES 539	6	10'-0" TO 33'-0"	ST.	6						4'-7 1/4"	135
ES 540	418	4'-6" TO 33'-6"	ST.	418						7/8"	8,283
ES 541	1	11'-8"	ST.	1							12
ES 542	4	9'-2"	ST.		4						38
ES 543	9	3'-0" TO 12'-6"	ST.		9					1'-2 1/4"	73
ES 544	17	8'-6" TO 29'-0"	ST.		17					1'-3 3/8"	332
ES 545	3	7'-0" TO 8'-0"	ST.		3					6"	23
ES 546	24	3'-0" TO 32'-0"	ST.		24					1'-3 1/8"	438
ES 547	174	6'-0" TO 30'-0"	ST.		174					15/8"	3267
ES 548	141	3'-0" TO 30'-0"	ST.		141					23/8"	2427
ES 549	5	11'-0" TO 14'-0"	ST.		5					9"	65
ES 550	25	34'-0" TO 1042'-0"	ST.		25					4"	991
ES 551	86	14'-0" TO 42'-0"	ST.		86					4"	2512
ES 552	65	13'-0" TO 39'-0"	ST.		65					47/8"	1763
ES 553	17	19'-0" TO 44'-0"	ST.		17					1'-6 3/4"	599
ES 554	8	13'-6" TO 17'-6"	ST.		8					6 3/8"	129
ES 555	15	8'-0" TO 36'-8"	ST.		15					2'-0 1/2"	349
ES 556	12	9'-10" TO 36'-4"	ST.		12					2'-4 7/8"	289
ES 557	20	9'-4" TO 35'-4"	ST.		20					2'-10 5/8"	466
ES 558	11	8'-4" TO 37'-4"	ST.		11					2'-10 3/4"	262
ES 559	20	3'-0" TO 27'-0"	ST.		20					1'-3 1/8"	939
ES 560	6	14'-3"	ST.		6						89
ES 562	703	30'-4"	ST.		703						22,241
ES 564	675	32'-0"	ST.		675						22,529
ES 570	429	27'-8"	ST.		429						12,380
ES 571	32	4'-0" TO 11'-6"	ST.		32					27/8"	259
ES 573	782	1'-9"	1	433	349					5"	1,427
ES 574	433	2'-7"	8	433						8"	1,167
ES 575	349	2'-1"	8		349					5"	758
ES 576	347	3'-10"	ST.		347						1,387
ES 577	347	4'-5"	4		347					3'-10"	1,598
ES 578	178	6'-11"	34	178						7 1/2"	1,284

MARK	No. REQ'D	LENGTH	TYPE	PHASE I	PHASE II	DIMENSIONS				INCRM.	WEIGHT LBS.	
						A	B	C	D			
ES 582	90	5'-0"	ST.	40	50						469	
ES 430	100	5'-0"	ST.	45	55						334	
ES 401	2010	30'-0"	ST.	1116	894						40,280	
ES 412	1	19'-0"	ST.	1							13	
ES 413	4	12'-6" TO 37'-0"	ST.		4					8'-2"	66	
ES 414	4	11'-0" TO 34'-0"	ST.		4					7'-8"	60	
ES 415	6	10'-0" TO 34'-0"	ST.		6					4'-10"	176	
ES 416	7	12'-6" TO 34'-0"	ST.		7					3'-7"	109	
ES 417	8	10'-0" TO 37'-0"	ST.		8					3'-10 1/4"	126	
ES 418	8	12'-0" TO 36'-0"	ST.		8					3'-5 1/8"	128	
ES 419	11	8'-0" TO 37'-0"	ST.		11					2'-10 7/8"	165	
ES 420	28	34'-0" TO 42'-0"	ST.		28					3/2"	711	
ES 421	83	14'-0" TO 42'-0"	ST.		83					4 1/8"	1,552	
ES 422	74	13'-0" TO 39'-0"	ST.		74					4 1/4"	1,285	
ES 423	19	19'-0" TO 44'-0"	ST.		19					1'-4 5/8"	400	
ES 424	8	13'-6" TO 17'-6"	ST.		8					6 7/8"	83	
ES 425	16	8'-0" TO 36'-0"	ST.		16					1'-10 3/8"	235	
ES 426	13	8'-0" TO 36'-0"	ST.		13					2'-4"	191	
ES 427	OF 11	9'-0" TO 35'-0"	ST.		OF 11					2'-7 1/4"	323	
HAUNCHES - SEE SHEET 116A/120											9,295	
SIGN SUPPORTS - SEE SHEET 14A/120											1,494	
LIGHT SUPPORTS - SEE SHEET 14A/120											752	
EASTBOUND SECTION 3											TOTAL =	327,407
EASTBOUND SECTION 12 & 3											TOTAL =	628,710



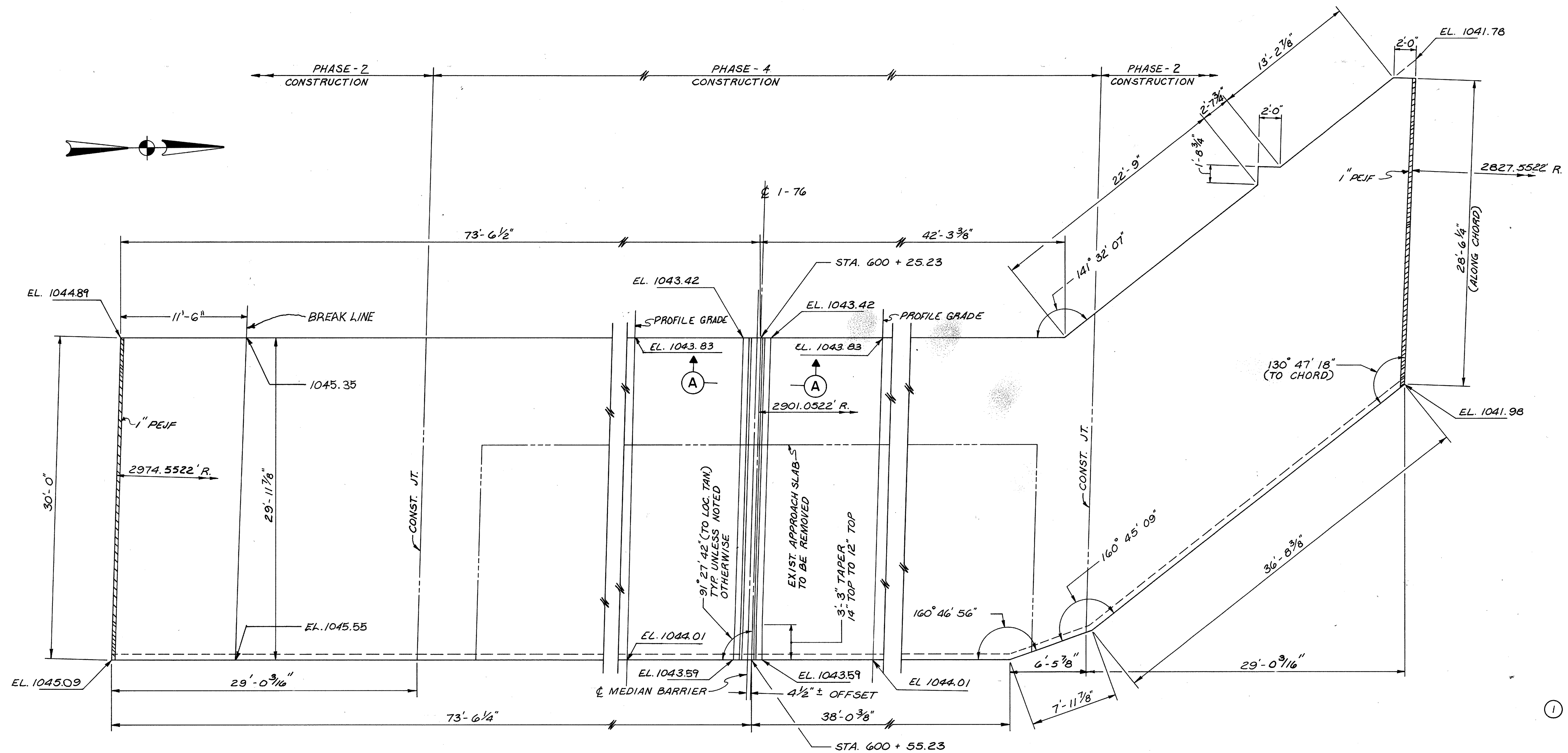
McCOY ASSOCIATES INC. 120/120
CONSULTING ENGINEERS
AKRON, OHIO

REINFORCING SCHEDULE

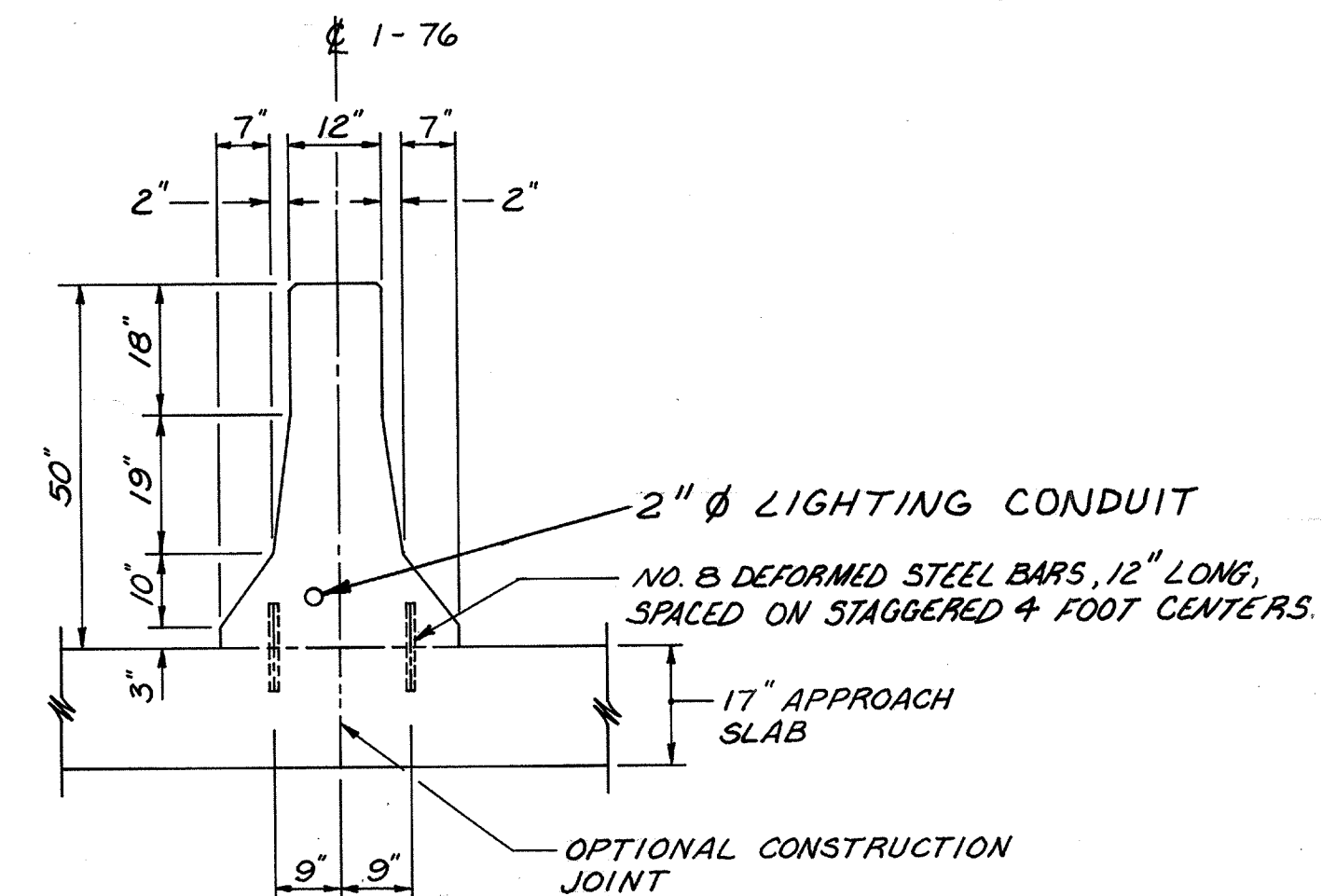
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.R.	E.B.		G.C.K.	JBH	3-31-89	

SUM-76-11.57



PLAN

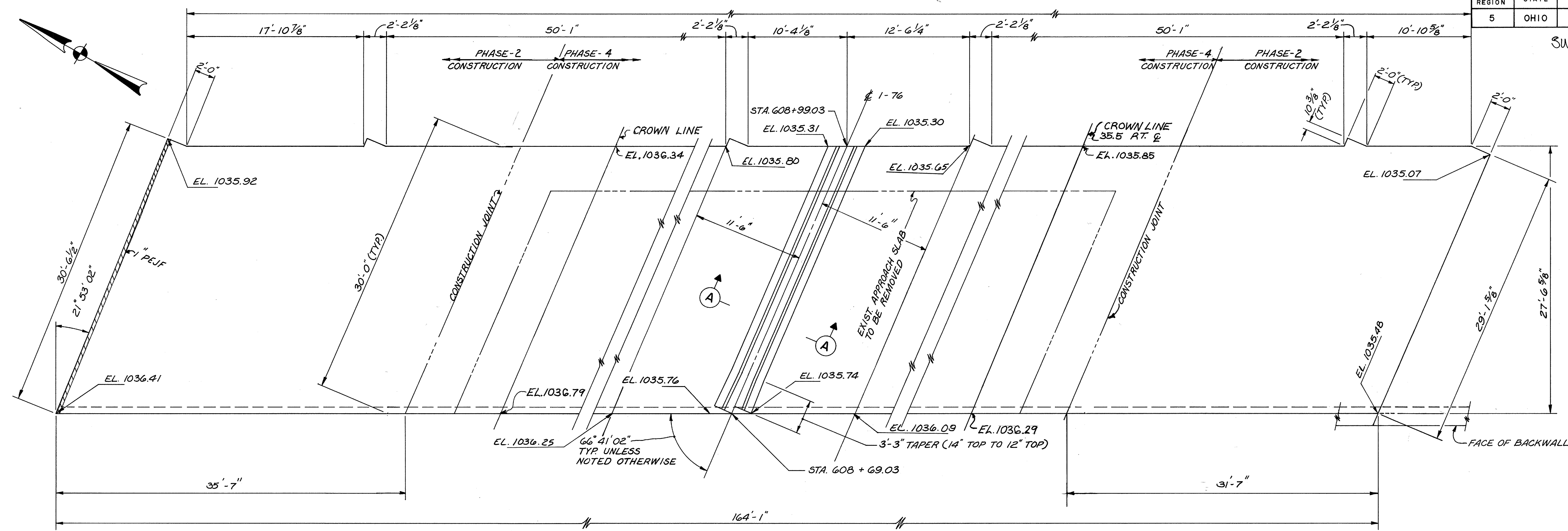


SECTION A-A

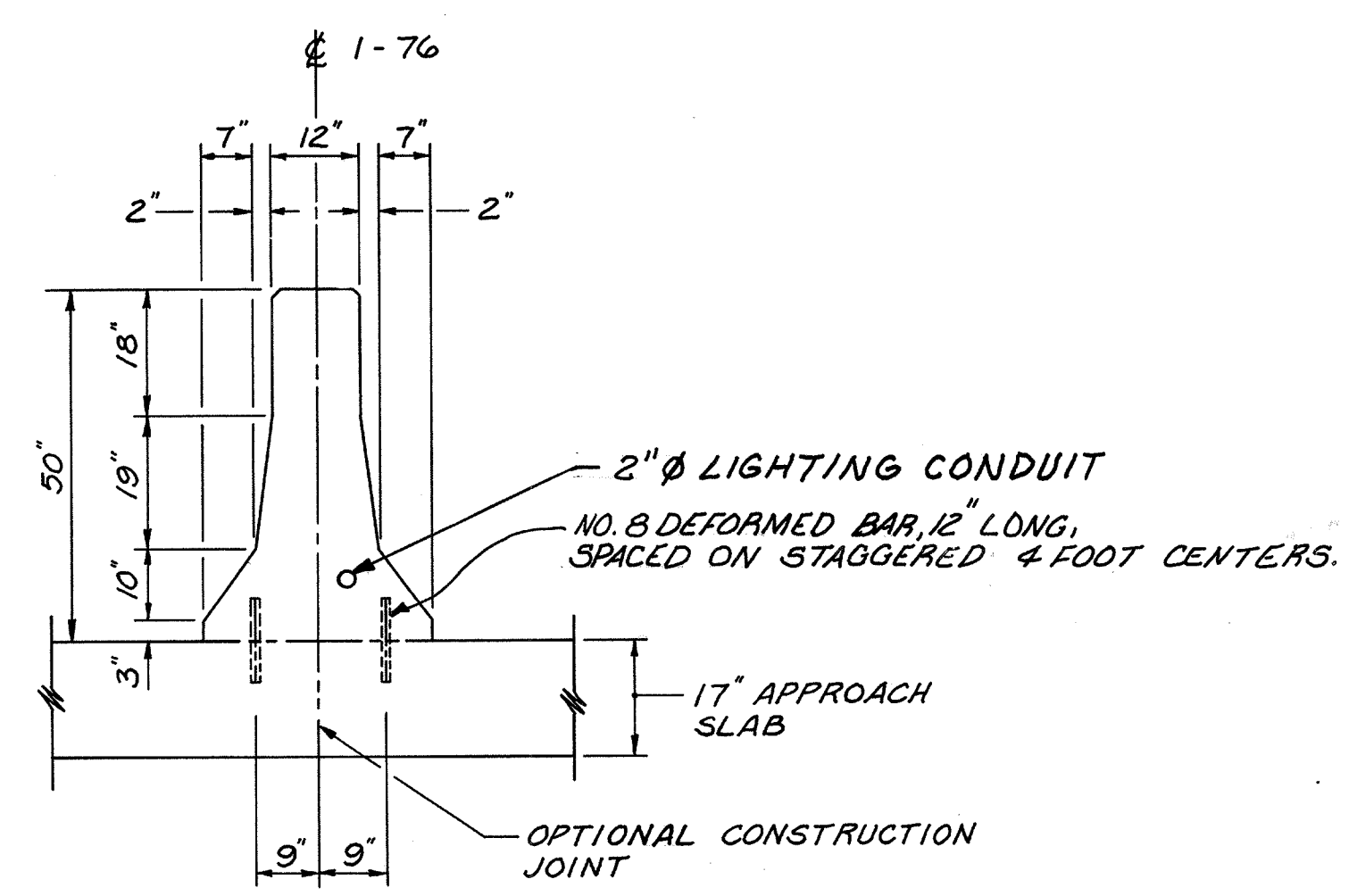
NOTES

- ① FOR ADDITIONAL DETAILS, REINFORCING, AND NOTES SEE STANDARD DRAWINGS AS-1-81, SHEETS 1 THRU 3 AND MC-9 STANDARD CONSTRUCTION DWGS.
- ② MEDIAN BARRIER SHALL BE INCLUDED WITH ITEM 622, CONCRETE BARRIER FOR PAYMENT
- ③ THE ELEVATIONS SHOWN ARE GIVEN AT THE TOP OF THE WEARING SURFACE.
- ④ SPLICES SHALL BE MADE USING A MECHANICAL SLICE SYSTEM. THE MECHANICAL SPLICE SYSTEM SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BARS CONNECTED.

McCOY ASSOCIATES INC.		120A/120	
CONSULTING ENGINEERS AKRON, OHIO			
APPROACH SLAB DETAILS WEST ABUTMENT			
BRIDGE NO. SUM. 76-1277 AKRON EAST EXPRESSWAY WEST VIADUCT			
DESIGNED	DRAWN	TRACED	CHECKED
JMH	J.D.P.	Gr	J.B.H.
REVIEWED	DATE	REVISED	
J.B.H.	3-30-89		



PLAN



SECTION A-A

NOTES

- ① FOR ADDITIONAL DETAILS, REINFORCING, AND NOTES SEE STANDARD DRAWINGS AS-1-81, SHEETS 1 THRU 3 AND MC-9 STANDARD CONST. DRAWINGS.
- ② MEDIAN BARRIER SHALL BE INCLUDED WITH ITEM 622, CONCRETE BARRIER FOR PAYMENT
- ③ THE ELEVATIONS SHOWN ARE GIVEN AT THE TOP OF THE WEARING SURFACE.
- ④ SPLICES SHALL BE MADE USING A MECHANICAL SLICE SYSTEM. THE MECHANICAL SPLICE SYSTEM SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BARS CONNECTED.

McCOY ASSOCIATES INC. 1208/120
CONSULTING ENGINEERS
AKRON, OHIO

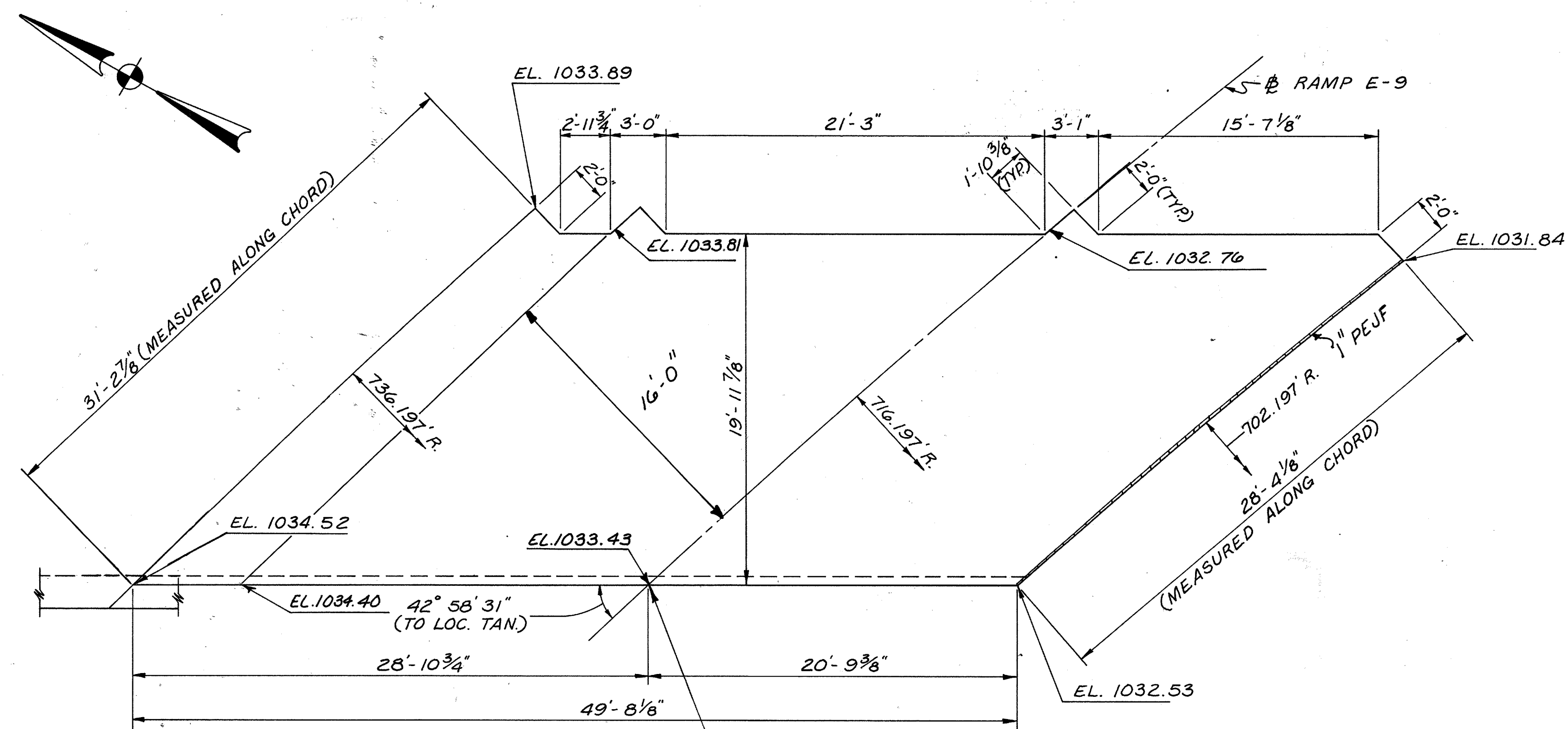
**APPROACH SLAB DETAILS
EAST ABUTMENT**
BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JMH	J.O.P.	G	JBH	JBH	3-30-89	

FHWA REGION	STATE	PROJECT	
5	OHIO		

1076
1214

Sum 76-11.57



PLAN
APPROACH SLAB, RAMP E-9
BEGIN APPROACH SLAB
STA. 9+43.14

NOTES

- ① FOR ADDITIONAL DETAILS, REINFORCING, AND NOTES SEE STANDARD DRAWINGS AS-1-81, SHEETS 1 THRU 3.
- ② THE ELEVATIONS SHOWN ARE GIVEN AT THE TOP OF THE WEARING SURFACE.
- ③ SPLICES SHALL BE MADE USING A MECHANICAL SPLICE SYSTEM. THE MECHANICAL SPLICE SYSTEM SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BARS CONNECTED.

McCOY ASSOCIATES INC. 1200/120
CONSULTING ENGINEERS
AKRON, OHIO

**APPROACH SLAB DETAILS
RAMP E-9**

BRIDGE NO. SUM. 76-1277
AKRON EAST EXPRESSWAY
WEST VIADUCT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JMH	J.D.P.	GT	JBH	JBH	3-30-89	