DESIGN DESIGNATION

S.R.3 & 83

= 14, 180

= 2, 127

= 55 MPH *

Freeway

= 55 MPH

= Urban

= 55%

= 81/.

Current ADT (1995)

V (Design Speed)

Classification

Legal Speed

Functional

County Line

Section Line

Township Line

Corporation Line

DHV

D

Design Year ADT (2015) = 21.270

Trees Stumps A,(to be removed) X Utility Poles: Telephone Ø, Power Ø, Light Ø

MICROFILMED MAY 19 1997

S.R. 83

55 MPH & 45 MPH *

55 MPH & 45 MPH

Limited Access (only)

Property Line P (in existing fence)-x-P

Guardrail (existing) - - - (proposed) - - - -

Railroad or HHHHHHHHH

Urban Arterial

* See Design Exceptions, Sheet 2

4,220

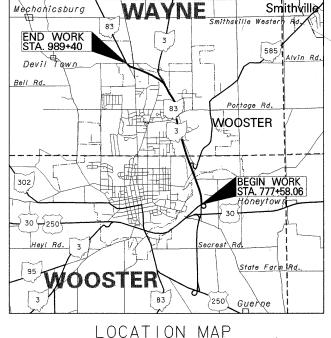
6.300

630

55%

10%

WAY-3-14.72 WAY-83-13.79



SCALE IN MILES

LONGITUDE N40 -47' -49" *
LATITUDE W81 -54' -46"

* LONGITUDE AND LATITUDE AT APPROXIMATE BEGINNING OF WORK

USGS QUADRANT NO. N4045 - W8152.5/7.5 WOOSTER, OHIO

SURFACE TRANSPORTATION PROGRAM PID 8300

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director in accordance with the provisions of Section 5511.02, Revised Code of Ohio.

1995 SPECIFICATIONS

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

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

INDEX OF SHEETS

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UNDERGROUND UTILITIES

MUST BE CALLED DIRECTLY

BEGIN WORK: STA. 777+58.06 END WORK: STA. 924+94.41 = 14736.35 LIN.FT.

BEGIN WORK: STA. 924+94.41

END WORK: STA. 989+40 = 6445.59 LIN.FT. N.B.L. U.S.R. 250 & S.R. 83

BEGIN WORK: STA. 773+69 END WORK: STA. 777+58.06

BEGIN WORK: STA. 6+00 END WORK: STA. 37+75= 3175' 3175'-540.53'(STA.EQUATION) = 2634.47 LIN. FT.

PORTAGE RD.

BEGIN WORK: STA. 45+60
END WORK: STA. 53+80

= 820 LIN. FT. = 25025.47 LIN.FT. OR 4.74 MILES TOTAL WORK LENGTH

Plan Prepared By:

Project WAY-3-14.72, WAY-83-13.79

LINE DATA

S.R. 3 & S.R. 83

= 389.06 LIN.FT.

TWO WORKING DAYS BEFORE YOU DIG Call 800-362-2764 (TollFree) HIQ UTILITIES PROTECTION SERVICE NON-MEMBERS

Portion to be Improved State & Federal Routes Other Roads SCALES Plan.

Cross Section Horzt

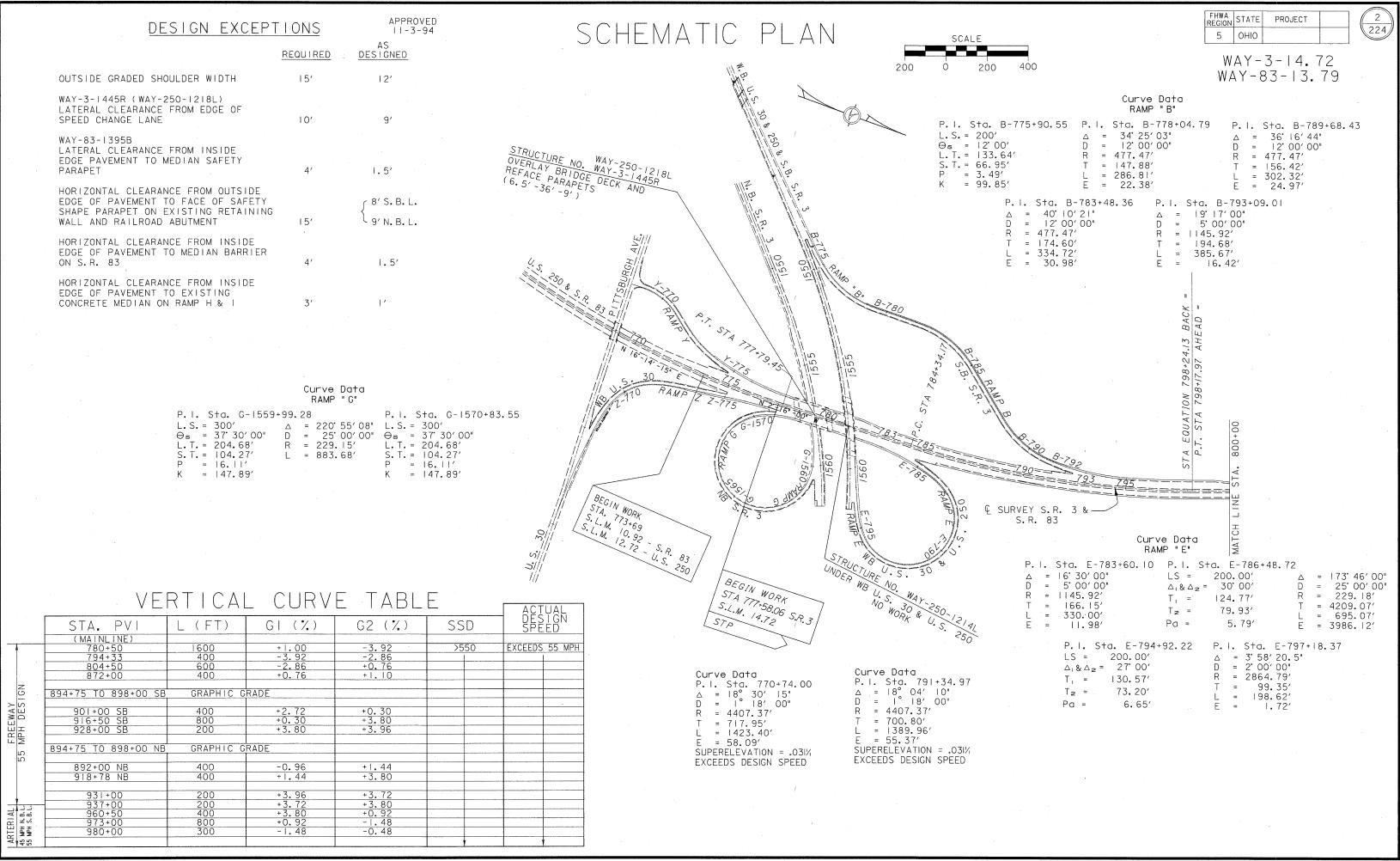
SUPPLEMENTAL SPECIFICATIONS 6-14-95 7-17-95 942 6-14-95

Approved ___ Date 4-2-96 District Deputy Director

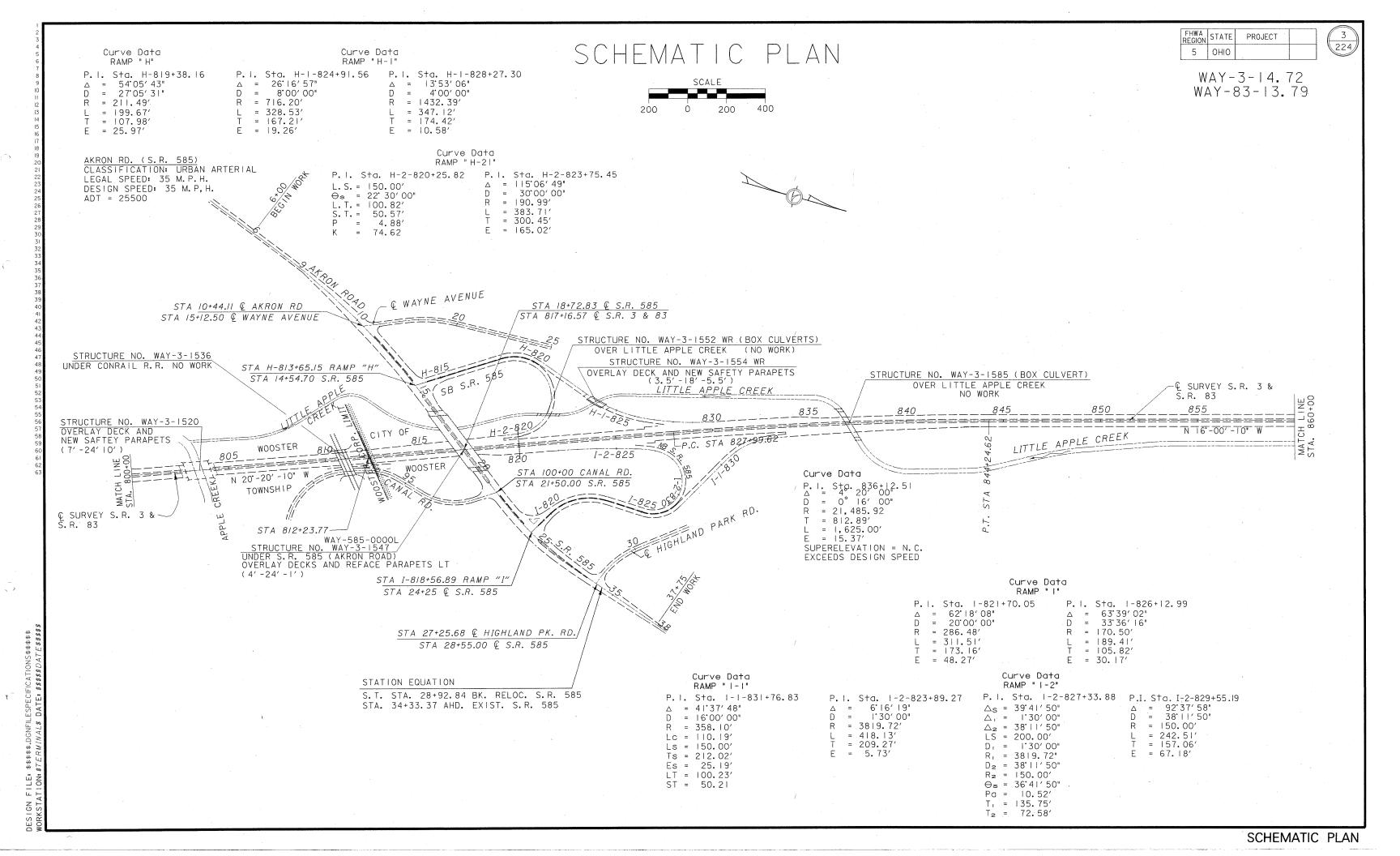
SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS 10-30-92 | MC-9.3 | 10-30-92 | TC-32.10 | 9-1-92 | TC-52.20 | 4-3-79 2-21-92 CB-5 10-28-94 CB-6 9-1-92 TC-61.10 4-5-82 5-1-79 GR-1.3 2-1-90 VPF-1-90 3-24-93 MT-105.10 7-1-92 2-1-90 MT-95.30 10-10-88 MT-105.11 7-1-92 2-1-90 MT-95.31 10-10-88 MT-101.60 7-1-92 9-10-91 MT-95.32 8-25-89 12-18-84 GR-2.1 11-10-83 GR-3.1 5-1-76 GR-3.2 5-6-91 MC-10 5-6-91 MC-11 10-28-94 2-21-92 F-1 2-21-92 F-2 5-6-91 5-1-76 GR-4.1 TC-42.10 8-19-77 TC-72.20 2-26-82 MT-95. TC-42.20 3-26-79 PCB-91 4-24-92 MT-98. TC-51.11 9-30-94 EXJ-4-87 1-20-94 MT-98. TC-51.12 1-3-94 AS-1-81 9-15-94 MT-98. 2-26-82 MT-95.40 10-1-92 4-24-92 MT-98.12 6-24-93 HL-50.11 1-20-94 MT-98.13 6-24-93 HW-4A 10-28-94 F-4 10-28-94 F-5 II-I0-83 GR-4.2 1-31-94 5-1-76 GR-8.1 CB-2-2-A&B 5-1-79 F-6 12-18-84 7-26-76

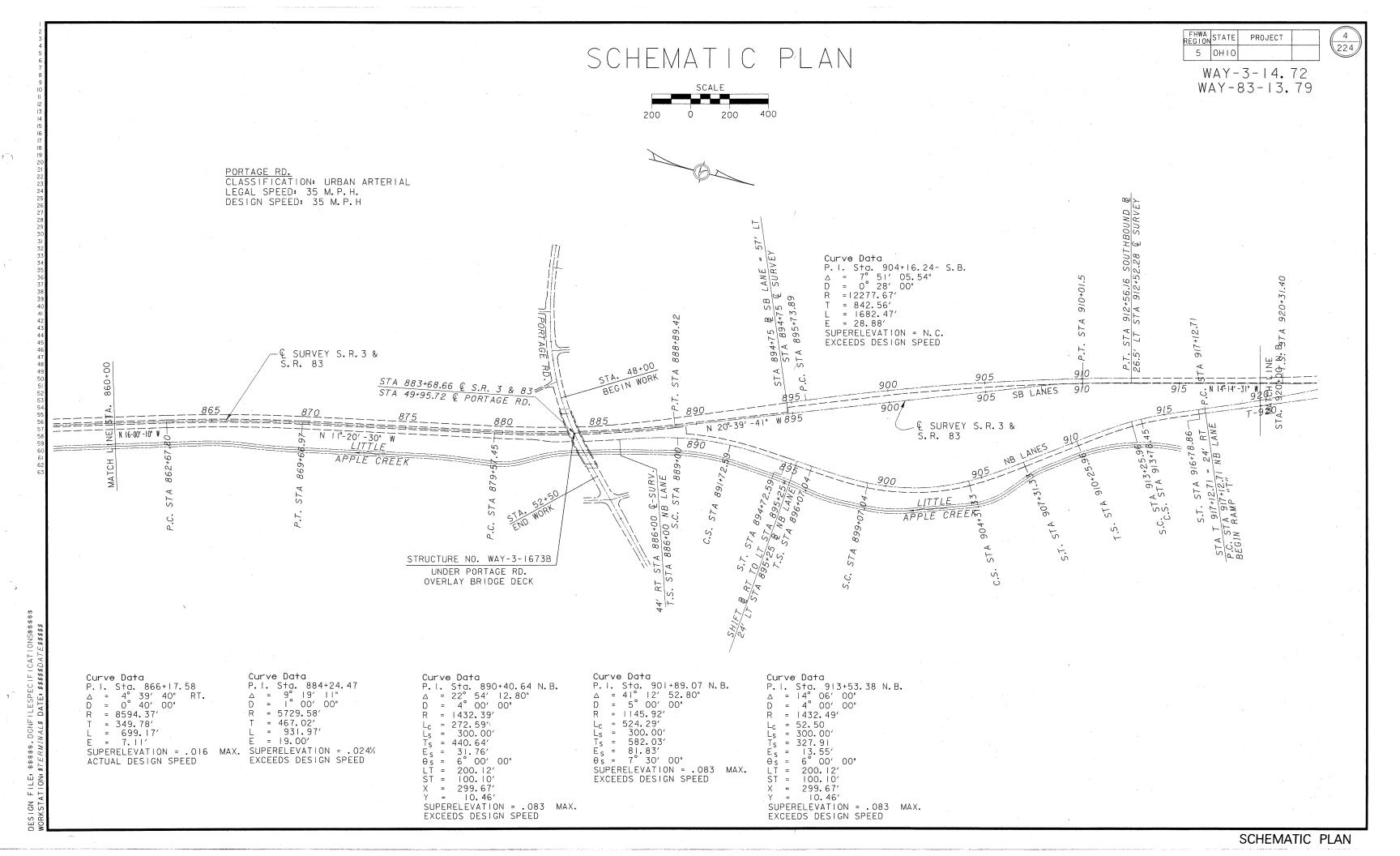
TITLE SHEET

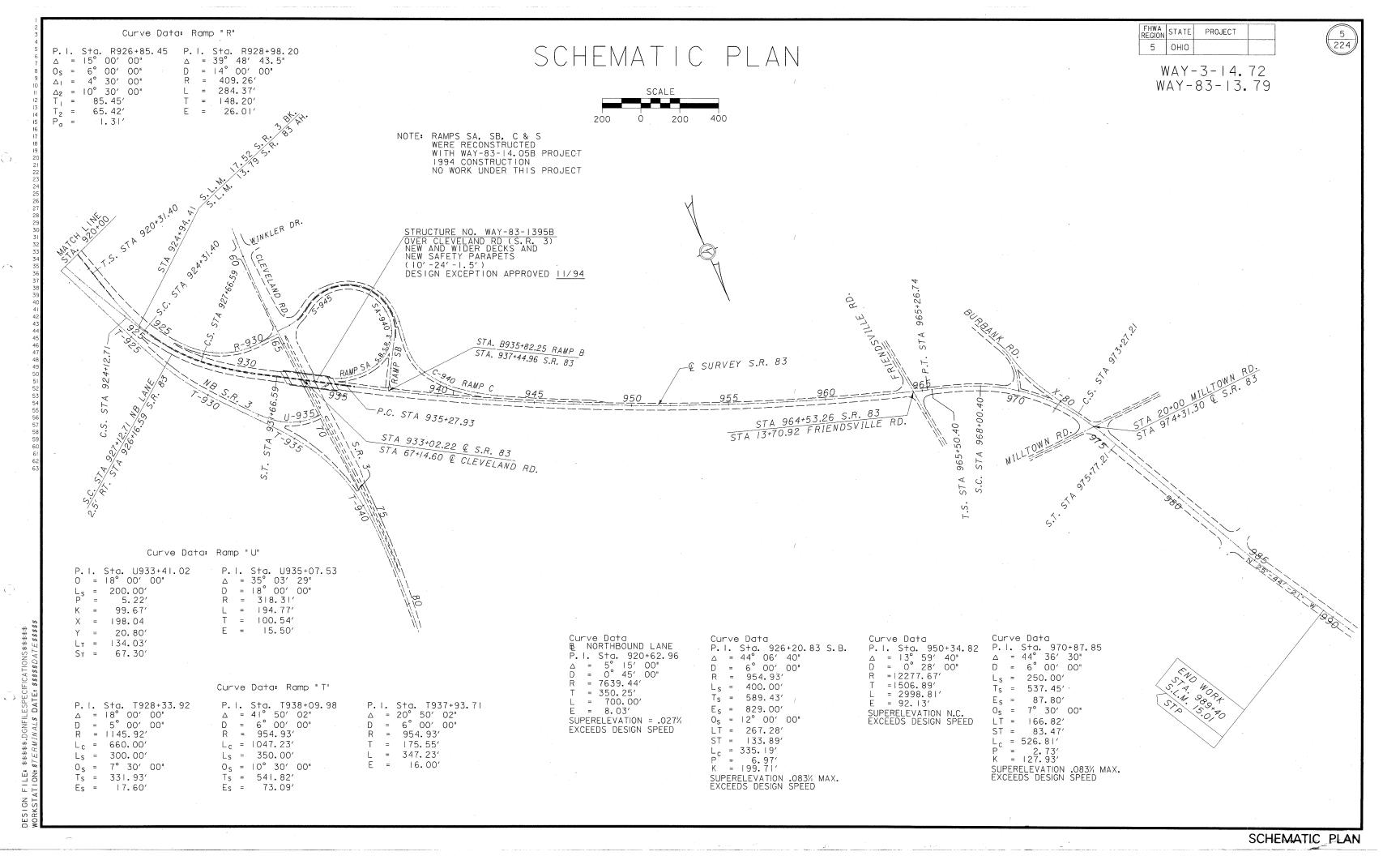
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STRUCTURE GENERAL NOTES

RD. STATE PROJECT TYPE FUNDS
5 OHIO

163
224

WAY-3-14.72 WAY-83-13.79

DESIGN SPECIFICATIONS:

THE MODIFIED PORTONS OF THIS STRUCTURE REHABILITATION CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1992 INCLUDING THE 1993, 1994 AND 1995 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS20-44 CASE II AND THE ALTERNATE MILITARY LOADING

DESIGN STRESSES

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 P.S.I.

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I.

REINFORCING STEEL - ASTM A615, A616 OR A617 - GRADE 60 MINIMUM YIELD STRENGTH 60,000 P.S.I.

STRUCTURAL STEEL - ASTM A709 GRADE 36 MINIMUM YIELD STRENGTH 36,000 P.S.I. SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82 OR A615.

DECK PROTECTION METHOD: EPOXY COATED REINFORCING STEEL, TOP AND BOTTOM MATS. MICRO-SILICA MODIFIED CONCRETE OVERLAY.

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE I" THICK. HIGH PERFORMANCE CONCRETE - COMPRESSIVE STRENGTH 4500 P.S.I.

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 THE CONSTRUCTION AND MATERIAL SPECIFICATION (CMS SECTIONS 102.05, 105.02 AND 513.02). 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

EXISTING STRUCTURE PLANS:

THE ORIGINAL DESIGN PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT ODOT DISTRICT 3 OFFICE, 906 NORTH CLARK STREET, ASHLAND, OHIO.

AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

REPLACEMENT OF THE EXISTING REINFORCING STEEL:

ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MEDE UNUSEABLE 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 UNUSEABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL. AN ALLOWANCE OF 100 POUNDS IS INCLUDED IN ITEM 509 FOR THIS PURPOSE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, DECK EDGES AND ABUTMENTS:

THIS ITEM OF WORK SHALL BE USED TO REMOVE DECK EDGES, PORTIONS OF THE ABUT-MENTS, PORTIONS OF DECK SLAB AND ANY OTHER AREAS INDICATED IN THE PLANS.

THE CONCRETE SHALL BE REMOVED BY A HYDRAULIC SPLITTING METHOD. A LINE OF HOLES SHALL BE DRILLED ALONG THE REMOVAL LINE AND A HYDRAULIC SPLITTER USED AS PER MANUFACTURER'S RECOMMENDATIONS. THIRTY-FIVE (35) AND FIFTEEN (15) POUND JACKHAMMMERS SHALL BE USED FOR THE FINAL FINISH WORK. A HOE RAM, CONCRETE CRUSHER, OR OTHER SIMILAR IMPACT DEVICES WILL NOT BE PERMITTED TO DO ANY OF THE WORK. CONCRETE SHALL BE REMOVED IN A MANNER THAT PREVENTS CUTTING, ELONGATING, OR DAMAGING OF THE EXISTING REINFORCING STEEL TO BE PRESERVED. IF THE EXISTING REINFORCING STEEL DESIGNATED FOR PRESERVATION IS DAMAGED DURING REMOVAL OPERATIONS, DOWELLED REINFORCING STEEL SHALL BE ADDED AT THE CONTRACTOR'S EXPENSE. CARE SHOULD BE TAKEN NOT TO CRACK THE DECK, IF THE DECK IS CRACKED IT SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT UNIT PRICE BID PER CUBIC YARD FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, DECK EDGES AND ABUT-MENTS, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT:

ALL DOWEL HOLES SHALL BE GROUTED WITH AN EPOXY MORTAR.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER EACH ITEM 510 - DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

<u>ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION):</u>

THIS ITEM SHALL BE USED AS PER DETAILS IN THE PLAN FOR STRUCTURE NO. WAY-250-1218L AND WAY-3-1520.

NOT MORE THAN 48 HRS. PRIOR TO PLACING THE CONCRETE, ALL EXISTING SURFACES TO WHICH THE CONCRETE IS TO BOND, INCLUDING EXPOSED REINFORCING AND STRUCTURAL STEEL SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, AND OTHER CONTAMINATES DETRIMENTAL TO ACHIEVING AN ADFOLUTE BOND.

IMMEDIATELY BEFORE THE CONCRETE IS PLACED ALL ADJACENT CONCRETE SURFACES SHALL BE COVERED WITH A THIN LAYER OF BONDING GROUT. THE BONDING SHALL CONSIST OF EQUAL PARTS BY VOLUME OF PORTLAND CEMENT AND SAND, MIXED WITH ENOUGH WATER TO FORM A SLURRY OF PAINT-LIKE CONSISTANCY WHICH SHALL BE SUCH AS TO ALLOW IT TO BE APPLIED WITH A STIFF BRUSH OR BROOM TO EXISTING CONCRETE SURFACES IN AN EVEN COATING THAT WILL NOT RUN OR PUDDLE. THE GROUT SHALL BE APPLIED FOR A DISTANCE IN ADVANCE OF THE PLACEMENT OF THE CONCRETE AND SHALL NOT DRY.

IN LIEU OF THE PROPORTIONING SPECIFIED IN 499.03 AND 511.02, THE FOLLOWING TABLE SHALL BE USED TO ESTABLISH THE QUANTITIES PER CUBIC YARD FOR CONCRETE, THE COARSE AGGREGATE SHALL BE LIMESTONE.

QUANTITIES PER CUBIC YARD (USING NO. 8 LIMESTONE)

	AGGREGAT COARSE		CEMENT CONTENT	WATER/CEMENT RATIO
(LB)	(LB)	(LB)		
1591	1127	2718	715	0.40
	Ali	R CONTENT:	8 % PLUS OR	MINUS 2 %

HIGH RANGE WATER REDUCER (SUPERPLASTICIZER) MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE DOSAGE RATE WILL BE DETERMINED BY THE CONTRACTOR BASED ON THE MANUFACTURER'S RECOMMENDATION TO ACHIEVE THE DESIRED WORK-ABILITY LEVEL.

HIGH RANGE WATER REDUCER SHALL CONFORM TO 705.12, ASTM-C494 TYPE F AND SHALL NOT CONTAIN CALCIUM CHLORIDE.

TYPE A OR D CHEMICAL ADMIXTURE CONFORMING TO 705.12, ASTM-C494 AND NOT CONTAIN-ING CHLORIDE SHALL BE ADDED TO THE CONCRETE AT THE PLANT.

ALL ADDITIVES, INCLUDING AIR ENTRAINMENT, SHALL BE MANUFACTURED BY THE SAME COMPANY AND CERTIFIED AS COMPATIBLE BY THE MANUFACTURING CO.

THE CEMENT CONTENT SHALL BE MAINTAINED AND A MAXIMUM WATER-CEMENT RATIO OF 0.40 SHALL NOT BE EXCEEDED. THE SLUMP OF THE CONCRETE DELIVERED TO THE JOB SITE SHALL BE II/2" PLUS OR MINUS 1/2". THE SUPERPLASTICIZED ADMIXTURE SHALL BE ADDED AT THE JOB SITE AND MIXED A MINIMUM OF FIVE (5) MINUTES. AFTER THE SUPERPLASTICIZER HAS BEEN ADDED THE SLUMP SHALL BE 61/2" PLUS OR MINUS 1/2". THE CONTRACTOR SHALL FURNISH A VOLUMETRIC DISPENSER FOR THE SUPERPLASTICIZER.

CONCRETE MIXTURES CONTAINING A HIGH RANGE WATER REDUCER SHALL MEET THE SAME REQUIREMENTS FOR ENTRAINED AIR CONTENT, MAXIMUM STRENGTH, AND MAXIMUM WATER-CEMENT RATIO AS REQUIRED FOR THE RESPECTIVE GRADE OF CONCRETE WITHOUT A HIGH RANGE WATER REDUCER.

SAMPLING AND TESTING FOR ENTRAINED AIR CONTENT AND MINIMUM STRENGTH SHOULD BE TAKEN FROM THE CONCRETE THAT HAS BEEN TREATED WITH A HIGH RANGE WATER REDUCER.

CURING SHALL BE IN ACCORDANCE WITH 511.14 TYPE A WATER CURING.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT UNIT PRICE BID PER CUBIC YARD FOR ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION) WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 517 - RAILING FACED, AS PER PLAN:

I'/4 INCH DIAMETER HOLES, 6 INCHES DEEP (MIN.), SHALL BE DRILLED AS SHOWN ON THE PLANS. THE HOLES SHALL BE THOROUGHLY CLEANED OF ALL DUST AND DELETERIOUS MATERIAL. DOWEL HOLES SHALL BE AS PER ITEM 510 - DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT.

ALL LOOSE AND UNSOUND CONCRETE IN THE AREA OF THE PARAPET TO BE FACED SHALL BE REMOVED. ALL REMAINING SOUND CONCRETE ON THE TOP AND ROADWAY SIDE OF THE EXISTING PARAPET SHALL BE MACHINE SCARAFIED \(\frac{1}{4} \) INCH DEEP. THE MINIMUM THICKNESS OF THE PROPOSED FACING SHALL BE 4 INCHES. ALL REINFORCING STEEL SHALL BE EPOXY COATED AS PER 509. EPOXY COATED REINFORCING STEEL WHICH IS DAMAGED DUE TO CUTTING, BENDING OR FOR ANY OTHER REASON SHALL BE REPAIRED AS PER 509. CONCRETE COVER FOR ALL REINFORCING STEEL SHALL BE 2 INCHES. THE CONCRETE SURFACES TO BE FACED SHALL BE THOROUGHLY DRENCHED WITH CLEAN WATER AND ALLOWED TO DRY TO A DAMP CONDITION JUST BEFORE THE CONCRETE IS PLACED.

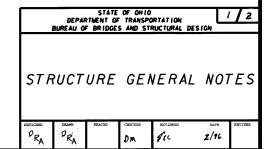
THE EXISTING DEFLECTION JOINTS SHALL BE EXTENDED COMPLETELY THROUGH THE PROPOSED FACING AND SHALL BE MADE BY FORMING OR SAW CUTTING THE HARDENED CONCRETE WITHIN 3 DAYS AFTER IT IS PLACED. THE 1/4 INCH JOINTS SHALL BE SEALED 3/4 INCHES DEEP (MIN.) WITH AND IMPREGNATED, PRECOMPRESSED, EXPANDING FOAM SEALANT TAPE KNOWN AS WILL-SEAL AS MANUFACTURED BY ILLBROOK/USA INC., MINNEAPOLIS, MINNESOTA; A LOW DENSITY CLOSED CELL, CROSS-LINKED ETHYLENE VINYL ACETATE FOAM KNOWN AS EVAZOTE 50 AS MANUFACTURED BY E-POXY INDUSTRIES, INC., RAVENA, NEW YORK OR E.V.A. AS MANUFACTURED BY THERMAL-CHEM INC., ELK GROVE, ILLINOIS; OR AN APPROVED EQUAL.

THIS WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT AND MATERIALS CONSISTING OF CONCRETE, REINFORCING STEEL, JOINT SEALANT GROUT, DOWEL HOLES AND INCIDENTALS NECESSARY TO ACCOMPLISH THE ABOVE MENTIONED REMOVALS AND WORK TO FACE THE EXISTING PARAPET. PAYMENT WILL BE MADE AT THE PRICE BID FOR:

<u>JT E M</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
517	LIN. FT.	RAILING FACED, AS PER PLAN

CONTINGENCY QUANTITIES:

SPECIFIC LOCATIONS AND USAGE OF THE ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIALS SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.



STRUCTURE GENERAL NOTES

OHIO

224

WAY-3-14.72 WAY-83-13.79

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS ITEM SHALL BE USED AS PER DETAILS IN THE PLAN FOR STRUCTURE NO. WAY-3-1520 AND WAY-83-1395B.

THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO RAISE OR REPOSITION ANY EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND OPERATION OF AN ADEQUATE JACKING SYSTEM, INCLUDING ANY TEMPORARY OR PERMANENT SUPPORTS NECESSARY TO PERFORM THE WORK DESCRIBED IN THE PROJECT PLANS. THREE (3) SETS OF JACKING PLANS, WHICH INCLUDE THE INFORMATION DESCRIBED IN THIS NOTE, SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL AT LEAST THIRTY (30) DAYS BEFORE THE ACTUAL WORK IS TO BEGIN. THE PLANS SHALL BE PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER.

JACKING SUBMITTALS SHALL INCLUDE AT LEAST THE FOLLOWING:

- I. THE SIGNATURE AND NUMBER, OR PROFESSIONAL SEAL, OF THE REGISTERED PRO-FESSIONAL ENGINEER WHO PREPARED THE SUBMITTAL.
- 2. CALCULATIONS AND ANALYSIS OF THE STRUCTURE TO DETERMINE AND DEFINE THE ACTUAL LOADING APPLIED AT THE CONTRACTOR'S SELECTION JACKING POINTS.
- 3. A DRAWING SHOWING THE PHYSICAL AND DIMENSIONAL POSITION OF THE JACKS WITH RESPECT TO THE STRUCTURE INCLUDING CLEARANCES AND CENTER OF LIFT.
- 4. A SCHEMATIC LAYOUT OF JACKS, CHECK VALVES, PUMPS WITH 3 WAY RETRACTOR VALVE, PRESSURE GAGES, FLOW CONTROL VALVES, ETC. IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL JACKS FOR EACH ABUTMENT OR PIER SHALL BE CONNECTED TOGETHER. ALL JACKS AT EACH ABUTMENT OR PIER SHALL BE THE SAME SIZE.
- 5. ANALYSIS CALCULATIONS OF THE STRESSES INDUCED OR CREATED IN THE STRUCTURE AND ANY TEMPORARY OR PERMANENT SUPPORTS. DESIGN CALCULATIONS FOR ANY TEMPORARY OR PERMANENT SUPPORTS.
- 6. PHYSICAL DIMENSIONS, MATERIALS, AND FABRICATION DETAILS OF ANY TEMPORARY OR PERMANENT SUPPORTS. HORIZONTAL AND VERTICAL MOVEMENT RESTRAINT SHALL BE
- 7. A STEP BY STEP PROCEDURE DETAILING ALL STEPS IN THE JACKING OPERATION.
- 8. METHOD OF ATTACHMENT TO STRUCTURAL MEMBER. WELDING TO TENSION AREAS WILL

THE ENTIRE SYSTEM INCLUDING JACKS SHALL HAVE 20% MORE CAPACITY THAN REQUIRED BASED ON CALCULATED LOADS.

FOR LIFTS GREATER THAN I", JACKS SHALL HAVE LOCKING NUTS TO POSITIVELY LOCK AND SUPPORT THE STRUCTURE DURING THE LIFT.

JACKS SHALL HAVE A SWIVEL LOAD CAP, A DOMED PISTON HEAD OR SOME OTHER DEVICE TO PROTECT AGAINST THE EFFECTS OF SIDE LOAD ON THE JACK.

JACKS ALONE SHALL NOT BE USED TO SUPPORT LOADS EXCEPT DURING THE ACTUAL JACKING OPERATION. TEMPORARY SUPPORTS, BLOCKING OR OTHER METHODS APPROVED BY THE DIRECTOR SHALL BE USED.

SINGLE ACTING RAMS WITH NO OVER-TRAVEL PROTECTION SYSTEM SHALL NOT BE USED. SPARE EQUIPMENT SHALL BE AVAILABLE ON SITE FOR THE REQUIRED STRUCTURE RAISING TO PROCEED IN THE EVENT OF A BREAKDOWN. A LIST OF SPARE EQUIPMENT SHALL BE PROVIDED TO THE ENGINEER.

AT A MINIMUM, A JACKING OPERATION SHALL LIFT ALL BEAMS AT ANY ONE ABUTMENT OR PIER SIMULTANEOUSLY. THE ONLY EXCEPTION IS THE SITUATION WHERE WORK INVOLVES REPLACING OR REHABILITATING INDIVIDUAL BEARINGS; NO PERMANENT SHIMMING IS REQUIRED AND THE HEIGHT OF THE LIFT SHALL NOT EXCEED 1/4 INCH.

MAXIMUM DIFFERENTIAL JACKING HEIGHT BETWEEN ANY ADJACENT ABUTMENTS OR PIERS SHALL BE I" OR LESS.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, THE JACKING OPERATION SHALL IMMEDIATELY CEASE AND APPROVED SUPPORTS SHALL BE INSTALLED. THE CONTRACTOR SHALL THEN ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. ANY BEAMS THAT SEPARATE FROM THE DECK SHALL BE EPOXY INJECTED FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH THE PROPOSAL NOTE "CON-CRETE REPAIR BY EPOXY INJECTION". COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS SHALL BE BORNE BY THE CONTRACTOR.

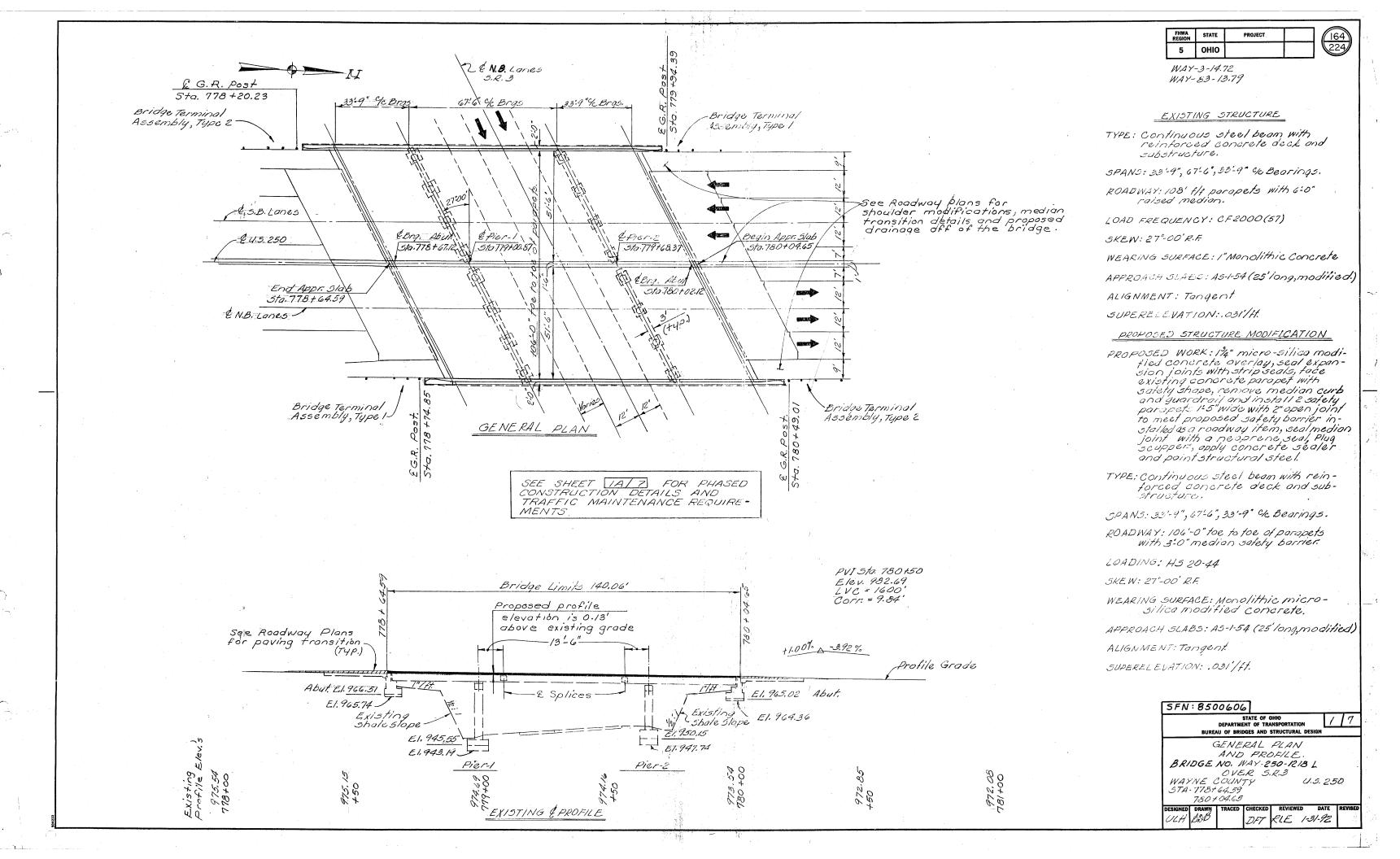
THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER THAT THE BRIDGE BEARINGS ARE FULLY SEATED BETWEEN ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUITABLE MEANS OF REPAIR, SUBJECT TO THE APPROVAL OF THE ENGINEER, WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

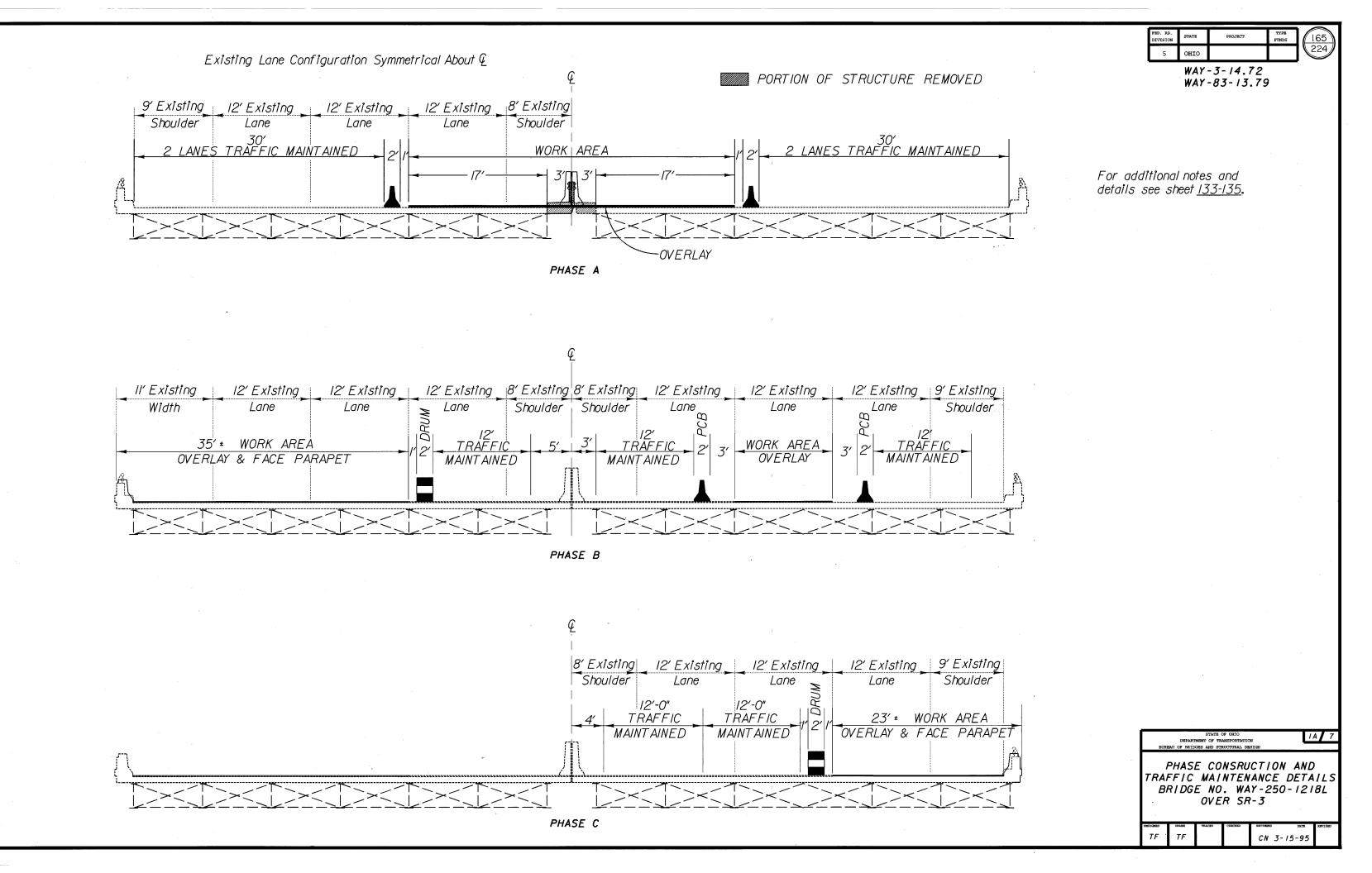
THE JACKING OPERATION SHALL BE DIRECTED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR. FAILURE TO HAVE A PROFESSIONAL ENGINEER PRESENT SHALL BE CAUSE FOR CEASING JACKING OPERATIONS.

PAYMENT SHALL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN AND SHALL INCLUDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION 2 / 2 STRUCTURE GENERAL NOTES

25 E





GENERAL NOTES

STATE OHIO

WAY-3-14.72 WAY-83-13.79

REFERENCE

SHALL BE MADE TO STANDARD DRAWINGS: PCB-91 DATED 4-24-92 BP-5.1 DATED10-28-94 GR-LI DATED5-6-91 GR-1.2 DATED10-30-92 GR-3.1 DATED5-6-91 DATED5-6-91 GR-3.2 EXJ-4-87 DATED 1-20-94, SHEETS 4 & 5 AND TO SUPPLEMENTAL SPECIFICATIONS: DATED 7-17-95 815 DATED 7-17-95 910

PAINTING OF EXISTING STRUCTURAL STEEL:

IN ADDITION TO THE SURFACE AREA OF THE STEEL STRINGERS TO BE PAINTED, AN ADDI-TIONAL THIRTY PERCENT OF THIS AMOUNT HAS BEEN ADDED TO THE SQUARE FOOT TOTALS TO ACCOUNT FOR INCIDENTALS SUCH AS CROSSFRAMING, BEARINGS AND EXPANSION SYSTEMS. CAULKING AS PER PROPOSAL NOTE IS REQUIRED IN THE OPEN AREA BETWEEN ABUTTING WEBS AND BOTTOM BEAM FLANGES AT EACH SPLICE LOCATION.

THE COLOR OF THE FINISH COAT SHALL BE BLUE.

MAINTENANCE OF TRAFFIC:

IN ADDITION TO PHASED CONSTRUCTION DETAILS SHOWN ON THIS PLAN, SEE ROADWAY PLANS FOR TRAFFIC MAINTENANCE NOTES AND QUANTITIES. PORTABLE CONCRÉTE BARRIERS ON THE BRIDGE DECK DO NOT HAVE TO BE ANCHORED TO THE DECK.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

THIS ITEM SHALL BE USED AS PER DETAILS IN THE PLAN FOR STRUCTURE NO. WAY-250-1218L. THIS ITEM SHALL BE USED TO REMOVE THE EXISTING ALUMINUM RAILING, MOUNTING BRACKETS AND MEDIAN GUARDRAIL. THE ALUMINUM RAILING AND MOUNTING BRACKETS SHALL BE STACKED NEATLY ALONG THE RIGHT-OF-WAY FOR SUBSEQUENT PICKUP BY STATE FORCES. THIS ITEM SHALL ALSO BE USED TO CUT AND REMOVE THE SCUPPER PIPES AND SUPPORT BARS. GRIND SUPPORT BARS FLUSH WITH WEB. AND PLUG AND FILL SCUPPER BOXES WITH SUITABLE CONCRETE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT LUMP SUM PRICE BID FOR ITEM 202 -PORTIONS OF STRUCTURE REMOVED, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIP-MENT, MATERIALS, AND INCIDENTALS NECESSAARY TO COMPLETE THE ABOVE WORK.

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN.

IN ADDITION TO THE NOTES AS SHOWN ON STANDARD DRAWING EXJ-4-87 SHEET 5 OF 5 SHEETS. THE FOLLOWING SHALL APPLY: JOINTS IN RETAINERS SHALL HAVE WATERTIGHT, PARTIAL PENETRATION BUTTWELDS COMPLETELY AROUND THE OUTER PERIPHERY OF THE ABUTTING SURFACES. WELDS WHICH WILL BE IN CONTACT WITH THE SEAL GLAND AND/OR JOINT ARMOR SHALL BE GROUND SMOOTH. WELDS IN THE JOINT ARMOR THAT WILL BE IN CONTACT WITH THE STEEL RETAINERS SHALL ALSO BE GROUND FLUSH. THE MINIMUM LENGTH OF RETAINER SHALL BE 6'-0" BETWEEN JOINTS. ALL STEEL SHALL BE ASTM A709, GRADE 36. EXPANSION JOINTS SHALL BE TOPCOATED COST TO TOPCOAT SHALL BE INCLUDED UNDER ITEM 815 - FIELD PAINTING OF EXISTING STEEL (FINISH COAT, SYSTEM OZEU). ARMOR LENGTHS SHALL SATISFY PHASED CONSTRUCTION REQUIREMENTS.

MEASUREMENT FOR PAY PURPOSES SHALL BE BASED ON THE LINEAR FOOT OF SEALED JOINT SYSTEM, MEASURED HORIZONTALLY ALONG THE JOINT CENTERLINES AND BETWEEN THE OUTER LIMITS OF THE FABRICATED JOINT, FURNISHED AND PLACED, INCLUDING ALL LABOR, MATER-IALS AND EQUIPMENT NECESSARY TO COMPLETE THE JOINT IN PLACE, WHICH INCLUDES THE REMOVAL OF THE EXISTING CURB PLATES AND TRIMMING THE EXISTING TOO ANGLE. HORIZON-TAL EXTENSION OF THE SUPPORT ARMOR, ANCHOR PLATES, STEEL FILL BARS, STEEL RETAIN-ERS AND ELASTOMERIC STRIP SEAL GLANDS AS PER DETAILS SHOWN ON THE PLANS. PAYMENT SHALL BE MADE PER LINEAR FOOT FOR ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES:

A NON-EPOXY CONCRETE SEALER SHALL BE APPLIED TO THE FOLLOWING CONCRETE SURFACES: ALL SIDES, TOP AND ENDS OF PARAPET, DECK SLAB FASCIA, UNDERSIDE OF DECK TO FASCIA BEAM FLANGE, FACES OF BACKWALLS, BEAM SEATS AND ALL EXPOSED SURFACES OF ABUTMENT WINGWALLS AND BREASTWALLS TO THE GROUND SURFACE. ALSO ALL EXPOSED VERTICAL SUR-FACES OF THE PIERS INCLUDING THE UNDERSIDE OF THE PIER CAPS, SEE PROPOSAL NOTE FOR SURFACE PREPARATION REQUIREMENTS AND APPLICATION PROCEDURES.

ITEM SPECIAL - CONTINUOUS SEAL IN CONCRETE JOINT (J.A.M.), 2 INCH:

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A CONTINUOUS PRESSURIZED ELASTOMER SEAL WITHIN A CONCRETE JOINT IN ACCORDANCE WITH THE PLANS AND SPECIFI-CATIONS.

REQUIREMENTS:

THE SEAL SHALL BE A CODE 5070W AS SHOWN ON THE PLANS AND SUPPLIED BY THE JEENE TECHNOLOGY CO. OF MICHIGAN, 1900 CHICAGO DRIVE, GRAND RAPIDS, MICHIGAN. THE SEAL SHALL BE EXTRUDED POLYCHLOROPRENE, MEETING THE FOLLOWNG REQUIREMENTS:

PROPERTY HARDNESS, TYPE A DUROMETER	<u>ASTM</u> D-2240 (MODIFIED)	<u>REQUIREMENTS</u> 55+5 POINTS
ELONGATION @ BREAK MIN.	D-412	250%
TENSILE STRENGTH, MIN.	D-412	2,000 P.S.I.
OVEN AGING, 70 HR. @ 212°F	D-573	
HARDNESS, TYPE-A DUROMETER (POINTS CHANGE)		0 TO +10
ELONGATION, LOSS MAX.		20%
TENSILE STRENGTH, LOSS, MAX.		20%
COMPRESSION SET, 70 HR. @ 212°F MAX.	D-395 METHOD B (MODIFIED)	40%
OZONE RESISTANCE 20% STRAIN, 300 PPHM, IN AIR @104°F (WIPED WITH TOLUENE TO REMOVE CONTAMINATION)	D-1149	NO CRACKS
OIL SWELL, 70 HR. @ 212°F WEIGHT CHANGE, MAX.	ASTM OIL 3	45%
HIGH TEMPERATURE RECOVERY, 70 HR. @ 212°F 50% DEFLECTION, MIN.	D-2628-81	85%
LOW TEMPERATURE RECOVERY, 70 HR. @ 212°F 50% DEFLECTION, MIN.	D-2628-81	83%
LOW TEMPERATURE RECOVERY, 72 HR. @ 14°F 50% DEFLECTION, MIN.	D-2628-81	88%

THE ADHESIVE (ADE-52) SHALL HAVE THE FOLLOWING PROPERTIES:

EPOXY BASE. DOUBLE COMPONENT. THIXOTROPIC PASTE, RESISTS DILUTE ACIDS, ALKALIS, SOLVENTS, GREASES, OILS, MOISTURE, SUNLIGHT AND WEATHERING. TEMPERATURES UP TO 200°F DO NOT WEAKEN BOND INTERFACES. AT ROOM TEMPERATURES (68°F), A STRONG BOND WILL DEVELOP WITHIN 24 HOURS.

POT LIFE	40 MINUTES @ 68°F
TENSILE STRENGTH: MIN.	4140 P.S.I.
SOLIDS HARDNESS	5 MOHS
FLASH POINT	>200°F
AXIAL COMPRESSION	8760 P.S.I.
COMPLETE CURE	7 DAYS @ 68°F

AT HIGH AMBIENT TEMPERATURES THE CURE WILL BE ACCELERATED

ADHESIVE ADE-52 APPLICATION CHART

PROFILE	: WIDTH	<i>FEET P/POUND</i>	FEET P/
2540 W	1"	6	108
3550 W	1.1/2"	5	90
5070 W	2"	4	72
6080 W	2.1/2"	3.1/2	63
8097 W	.3"	.3	54

CERTIFICATION:

CERTIFIED COPIES OF THE QUALIFICATION TEST RESULTS INDICATING THAT THE TESTED MATERIALS COMPLY WITH THE PROVISIONS OF THE ABOVE, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

RESTRICTIONS:

- I. ALL INSTALLATIONS MUST BE PERFORMED UNDER THE SUPERVISION AND RESPONSIBILITY OF A TECHNICIAN EITHER PROVIDED DIRECTLY BY THE MANUFACTURER, AUTHORIZED CON-TRACTOR, OR OWNER AUTHORIZED-TRAINED CREW.
- 2. THE ADHESIVE ADE-52 DOES NOT BOND ON DAMP OR HUMID SURFACES. NO INSTALLATION MAY BE PERFORMED IN RAINY WEATHER.
- 3. ALL SURFACES MUST BE COMPLETELY DRY PRIOR TO APPLYING ADHESIVE. INSTALLATION
- I. PREPARATION:
- a. THE PRE-FORMED SEAL MUST BE CUT TO THE CORRECT LENGTH OF THE APPROPRIATE GAP FOR INSTALLATION. CARE SHOULD BE TAKEN TO EXTEND THE SEAL TO ITS FULL LENGTH BUT NOT TO EXERT EXCESS TENSION. IT SHOULD BE REMEMBERED THAT THE MATERIAL IS ELASTIC AND IMPROPER STRETCHING DURING LENGTH MEASUREMENT COULD CAUSE THE SEAL TO BE EITHER LONGER OR SHORTHER THAN THE DESIRED GAP LENGTH,

- b. AFTER SEAL LENGTH IS DETERMINED, BOTH ENDS MUST BE PLUGGED (AIR TIGHT) AND AIR VALVE INSTALLED.
- c. BEFORE MIXING THE ADHESIVE ADE-52, AIR MUST BE PUMPED INTO THE SEAL TO ASSURE THAT THERE ARE NO LEAKS PRIOR TO MIXING AND APPLICATION OF THE ADE-52.

2. ADHESIVE ADE-52:

- a. ADE-52 IS A VERY POWERFUL BONDING AGENT. WITH A FASTSETTING FACTOR. (POT LIFE 30 MINUTES).
- b. THE PROPORTIONS OF THE ADHESIVE TO BE MIXED MUST BE ONE PART COMPONENT C TO ONE PART R OR ACCORDING TO SPECIFIC MANUFACTURERS INSTRUCTIONS.
- c. THE ADHESIVE MUST BE MIXED "ONLY" AFTER ALL PREPARATION OF GAP AND SEAL ARE TOTALLY FINISHED. (CHECKED AND CONFIRMED).
- d. TOTAL TIME AVAILABLE FOR WORKING WITH ADE-52 FROM TIME OF MIXING IS AN AVERAGE OF 30 MINUTES AT TEMPERATURES FROM 62°F TO 75°F. AT LOWER TEMPERATURES THE CURE OR SET-UP TIME WILL BE SOMEWHAT EXTENDED AND AT HIGHER TEMPERATURES THE TIME WILL BE SOMEWHAT DIMINISHED.

3. JOINT INSTALLATION IN THE GAP:

- a. APPLY ADHESIVE TO THE INNER WALLS OF THE CONCRETE, AS EVENLY AS POS-SIBLE, WITHOUT LEAVING BLANK SPOTS. IN THE SAME MANNER, APPLY ADHESIVE TO THE OUTSIDE WALLS OF THE SEAL.
- b. AS THE ADHESIVE IS APPLIED TO THE SEAL WALLS (ON BOTH SIDES), THE SEAL SHOULD BE GRADUALLY INSERTED INTO THE GAP, IN ORDER NOT TO LEAVE SEC-TIONS OF GLUED SEAL OUTSIDE THE JOINT AND SUSCEPTIBLE TO INTRUSION OF FOREIGN MATTER.

4. PRESSURIZATION:

THE PRESSURIZATION OF THE SEAL IS DONE THROUGH A VALVE THAT CONVEYS COMPRESSED AIR INTO THE PRE-FORMED SEAL WHOSE ENDS WERE PREVIOUSLY CLOSED, CAUSING THE SEAL TO EXPAND AGAINST THE JOINT'S CONCRETE WALLS. AFTER THE ADHESIVE HAS CURED FOR 24 HOURS, THE VALVE CLAMP IS REMOVED. ALLOWING THE COMPRESSED AIR TO BLEED OFF, THEREBY REESTABLISHING THE ISOBARIC BALANCE.

MEASUREMENT AND PAYMENT:

PAYMENT FOR ACCEPTED QUANTITIES SHALL BE BASED ON THE LENGTH OF JOINT MEASURED ALONG THE CENTERLINE OF THE SEAL COMPLETE IN PLACE AND ACCEPTED. THE PAYMENT SHALL INCLUDE THE COST OF FURNISHING AND PLACING SEALS. AD-HESIVE AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THIS WORK ACCORD-ING TO THE PLANS AND THIS SPECIFICATION.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT.

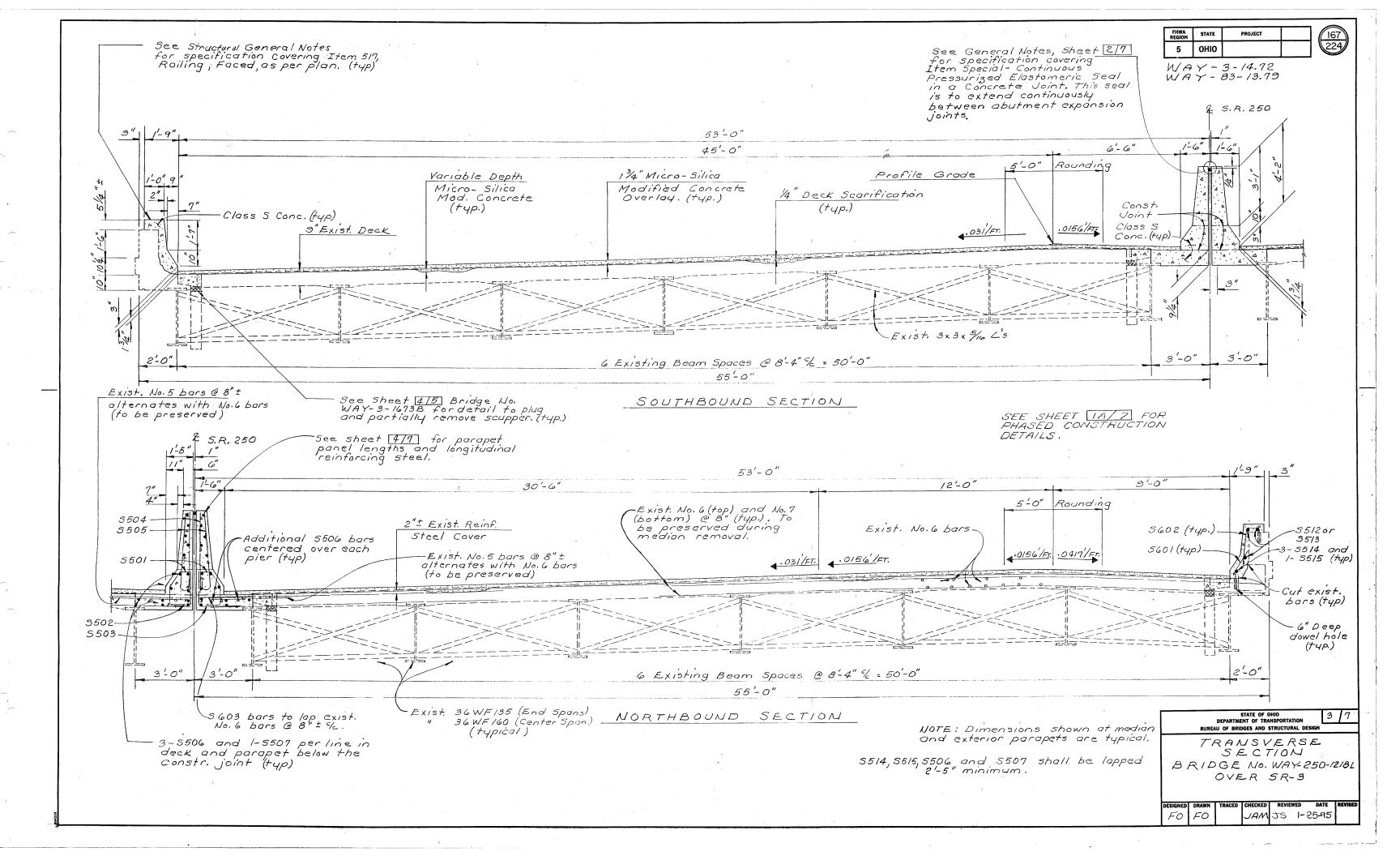
DESCRIPTION CONTINUOUS SEAL IN CONCRETE JOINT (J.A.M.), 2 INCH <u>ITEM</u> SPECIAL LIN. FT.

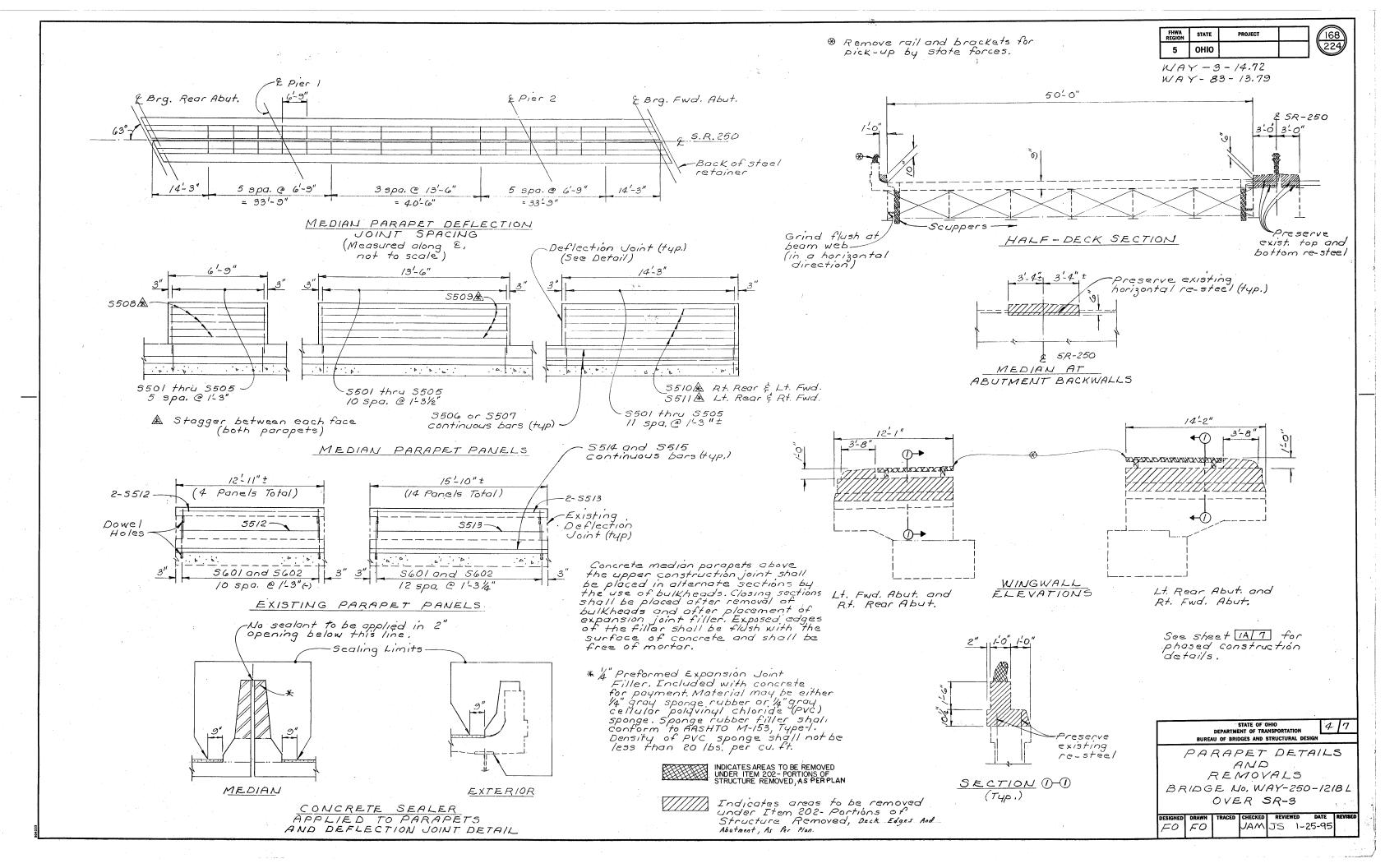
PROPOSED WORK (TO BE PERFORMED ACCORDING TO PHASED CONSTRUCTION)

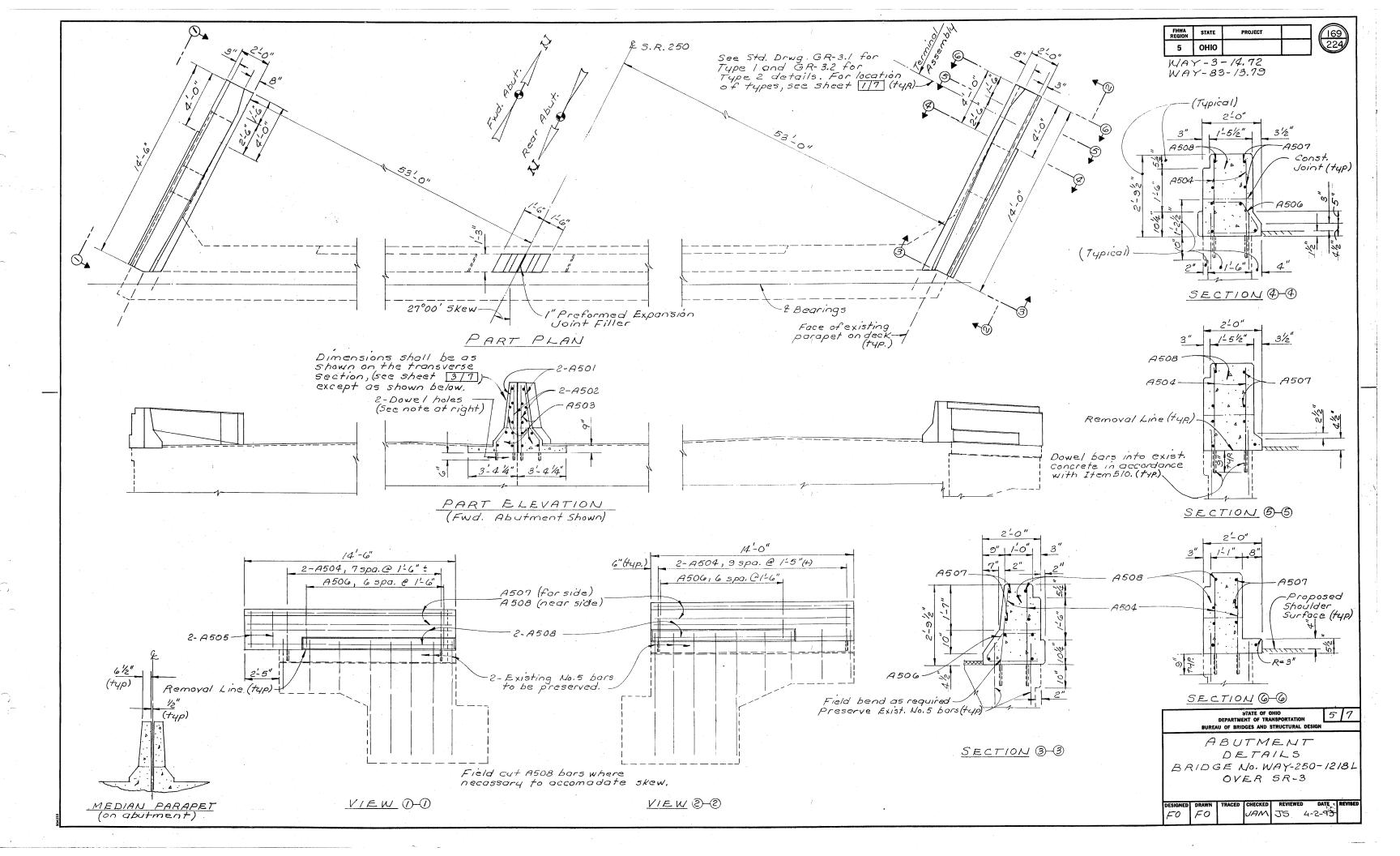
I. REMOVE THE FOLLOWING:

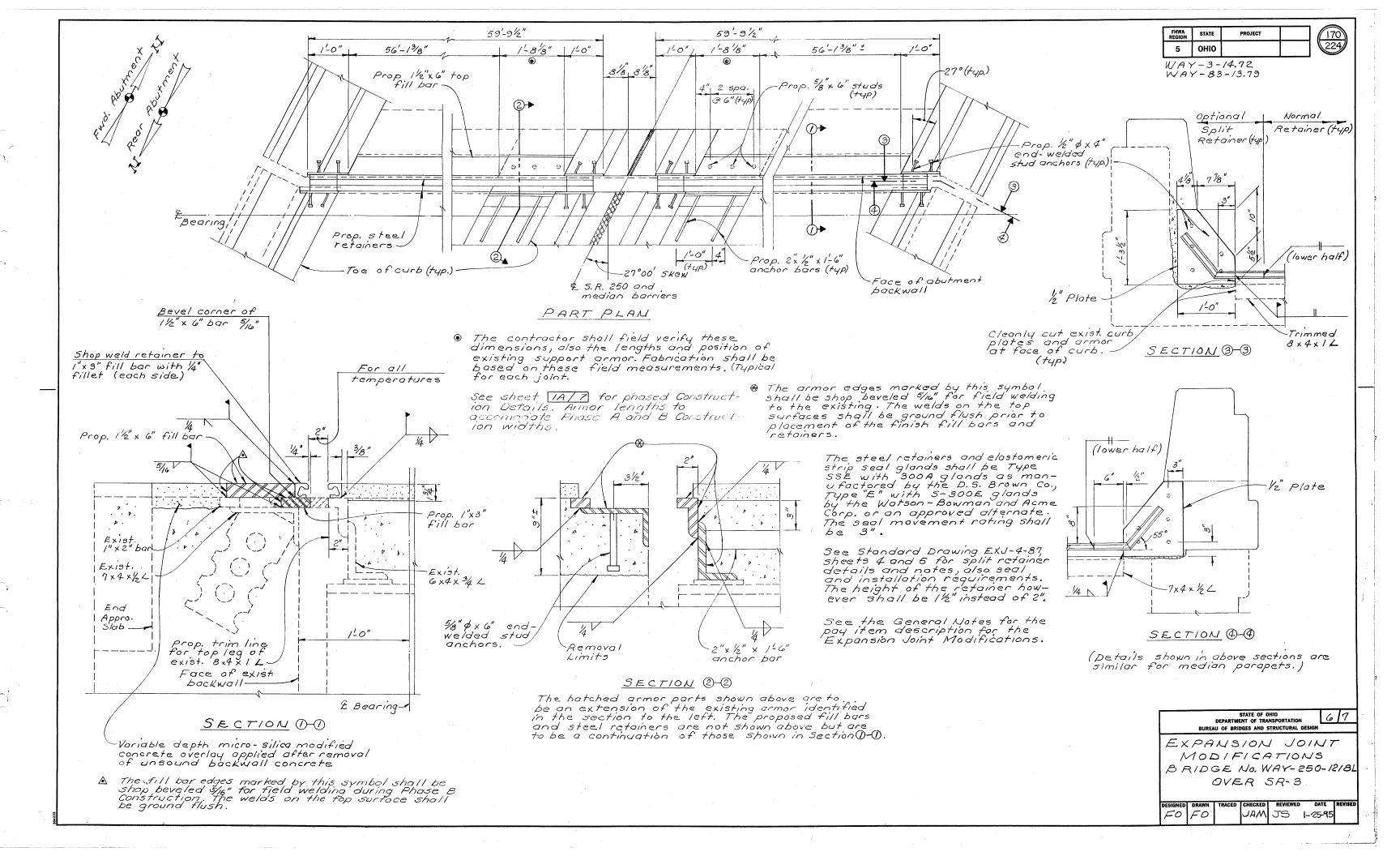
- a. THE CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING ALUMINUM RAILING AND MOUNTING BRACKETS AND STACK IT NEATLY ALONG THE RIGHT-OF-WAY FOR SUBSEQUENT PICK-UP BY STATE FORCES.
- b. THE GREATER PORTION OF THE SAFETY CURBS.
- c. THE UPPER PORTIONS OF THE WINGWALLS AS SHOWN ON THE PLANS.
- d. MEDIAN GUARDRAIL, MEDIAN PAVEMENT AND DECK BELOW IT.
- e. CUT AND REMOVE SCUPPER PIPES AND SUPPORT BARS, PLUG AND FILL SCUPPER BOXES WITH SUITABLE CONCRETE.
- 2. FACE EXISTING PARAPETS TO PROVIDE SAFETY SHAPE, MODIFY WINGWALLS, CONSTRUCT NEW MEDIAN DECK AND PARAPETS.
- 3. SEAL EXPANSION JOINTS WITH STRIP SEALS.
- 4. PROVIDE 13/4" MICRO-SILICA MODIFIED CONCRETE OVERLAY TO DECKS.
- 5. INSTALL THE CONTINUOUS PRESSURIZED SEAL TO THE MEDIAN PARAPET JOINT OPENING.
- 6. SEAL DESIGNATED CONCRETE SURFACES.
- 7. PAINT ALL STRUCTURAL STEEL.
- 8. COMPLETE REMAINING CONTRACT ITEMS.
- (IT IS NOT INTENDED THAT THE ABOVE LISTED WORK OCCUR IN SEQUENTIAL ORDER AS LISTED)

В		TMENT OF	OF OHIO TRANSPOR ND STRUCT	TATION URAL DESIGN		2 / 7		
GENERAL NOTES								
	BRI		IO. WA /ER S	Y-250-12 R-3	218L			
DESIGNED	DRAWN	TRACED	CHECKED 2-1-93	REVIEWED	DATE	REVISED		
F0	GFJ	-	JAM	JS 1-2	25-95	ı		

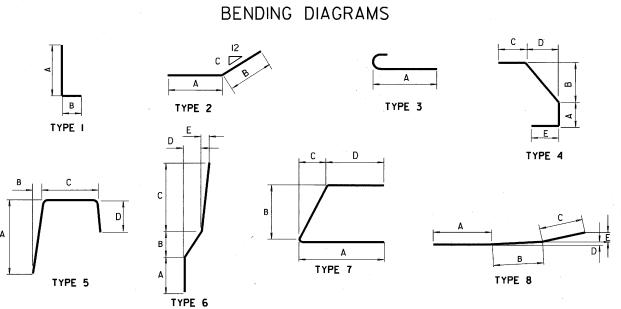








					REI	NFOF	RCING	STEEL	LIST		•		
		NUMBER	1		Ī .	I I			DIME	NSIONS			
MARK	REAR	FWD	TOTAL	LENGTH	WEIGHT	TYPE -	Α.	В	С	D	. Е	R	INC
							ABUTME	NTS				<u> </u>	
450i	4	4	8	5′-3"	44	6	1'-4"	81/2"	2'-11"	8*	4*		
													1.
502	4	4	8	5′-0"	42	STR.							
503	16	16	32	1'-0"	33	STR.							
								1					1
504	36	36	72	3′-4"	250	STR.						_	
F 0 F	1			2/ 51	20	CTD							-
505	4	4	8	2′-5"	20	STR.							-
506	14	14	28	3′-4"	97	7	I'-7"	10"	7*	l'-0"		+	
	 ''	<u> </u>		-	J	 		10		. 0			+
507	4	4	8	13'-8"	114	8	9′-11"	2'-4"	l'-5*	11/2"	5'		t
508	12	12	24	14'-2"	355	STR.							
				TOTAL	955								
							SUPERSTRU						
501			234	3'-1"	752	4	l'-0 "	81/2	6.	7*	10"		<u> </u>
502			117	2'-7"	315		1'-11"	10.					
503			117	3'-11"	478		1'-11"	2'-2"					-
504		-	234	4'-0" 4'-7"	976	STR.	44.01					ļ	₩
505 506			234 62	34'-11"	1119 2258	STR.	4′-0"					<u> </u>	
507			18	39'-0"	732	STR.						+	\vdash
508			100	6′-5"	669	STR.							+
509			30	13'-2"	412	STR.							+
510			10	13'-3"	138	STR.							
S5II		-	10	14'-1"	147	STR.							†
512			12	12'-7"	☆ 157	STR.	,						
513			42	15'-6"	\$679	STR.				-			
514			6	35′-0"	\$ 219	STR.							
515			2	38′-11"	\$ 81	STR.							
						-							-
COL	ļ		226	21.21	₩.72E	1 2	9•	1/2.51	91/-			1	+
602			226 226	2'-2' 2'-10"		5	1′-9 '	21/2"	8 ¹ / ₂	9•		+	+
603	-	<u> </u>	206	2'-8"	825	STR.	1 3	2/2	U	3		-	+
			200	2 0	025	3113						1	+
	L	·		TOTAL	8821				l		l	1	
	PAYM	ENT IS	INCLUDE	O UNDER I	RPOSES OF TEM 517 - BE EPOXY	RAILING,	FACED AS I	PER PLAN		LEGEND: S	TR. = STRAIG	GHT	



FHWA REGION	STATE	PROJECT	17
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WAY-3-14.72 WAY-83-13.79

ESTIMATED QUANTITIES									
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	LUMP		LUMP		
202	11301	55	CU. YD.	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, DECK EDGES	6		49		
				AND ABUTMENTS					
509	15840	9876	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60	955		8821	100	
510	10000	88	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	88				
511	34401	70	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)	l II		59		
SPECIAL	51267504	1255	SO. YD.	SEALING OF CONCRETE SURFACES (NON-EPOXY) (SEE PROPOSAL NOTE)	261	511	483		
815	00050	22400	SO.FT.	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU					
							22400		
815	00056	22400	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU			22400		
815	00060	22400	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU			22400		
815	00066	22400	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU			22400		
							22400		
815	00500	. 14	LIN. FT.	CAULKING			14		
815	00504	50	MAN-HOUF	GRINDING FINS, TEARS, SLIVERS		,	50		
516	11211	239	LIN. FT.	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS					
5.0		1 233	2.112.112	PER PLAN (SEE PROPOSAL NOTE)			239		
SPECIAL	51614120	137	LIN, FT.	CONTINUOUS SEAL IN CONCRETE JOINT (J.A.M.), 2 INCH			137		
516	13600	14	SQ.FT.	I' PREFORMED EXPANSION JOINT FILLER	14				
517	76201	273	LIN. FT.	RAILING FACED, AS PER PLAN			273		
SPECIAL	5/922006	1580	SQ. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (13/4" THICK) (SEE PROPOSAL					
SPECIAL	31322006	1360	30, 10,	NOTE)	18		1562		
SPECIAL	51922100	30	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS)	10		30		
				(SEE PROPOSAL NOTE)					
SPECIAL	51922200	ı	CU. YD.	FULL DEPTH REPAIR (SEE PROPOSAL NOTE)					
SPECIAL	51922300	LUMP		TEST SLAB (SEE PROPOSAL NOTE)			LUMP		
			l		l	l	1		

** DENOTES 100% STATE FUNDS

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES AND STRUCTURAL DESIGN

ESTIMATED QUANTITIES REINFORCING STEEL LIST

BRIDGE NO. WAY-250-1218L OVER SR-3

SIGNED	DRAWN	TRACED	снеская 2-1-93	REVIEWE	D DATE	REVISED
го 🥳	GFJ	-	JAM	JS	1-25-95	