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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
ROS-23/35-19.344/VAR
SCIOTO TOWNSHIP *SLM 12.02/UNIT*
ROSS COUNTY

FEDERAL PROJECT NO.
NON-FEDERAL

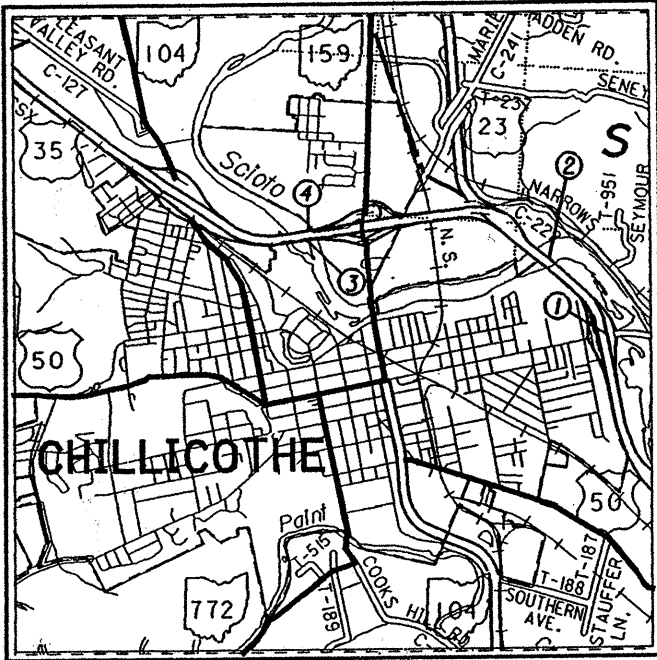
PID NO.
17618

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

ROS-23/35-19.344/VAR

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16



LOCATION MAP

Longitude: 83°02'00" Latitude: 39°22'00"

- ① - ROS-23-1202 R
- ② - ROS-23-1257 R
- ③ - ROS-35-2036 L
- ④ - ROS-35-2036 R

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1997 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 AS SET FORTH IN THE PLANS AND ESTIMATES.

DISTRICT CERTIFIED PLAN

APPROVED *William J. McPherson*
DATE 7/19/97 DISTRICT DEPUTY DIRECTOR

APPROVED *[Signature]*
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

REPAIR OF BRIDGE NOS. ROS-23-1202R, ROS-23-1257R, ROS-35-2036L & ROS-35-2036R BY REPLACING BRIDGE EXPANSION JOINTS THAT HAVE FAILED.

Ros-23/35-19.344

975003

08-06-97

16pgs

Dist. 09

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:
DISTRICT NO. 9
OHIO DEPARTMENT OF
TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS

EXJ-4-87M	2/18/97	MT-95.30M	4/25/94
		MT-98.14M	6/24/93
TC-41.20M	7/1/94	MT-98.15M	6/24/93
TC-42.20M	3/31/94	MT-105.10M	4/25/94
TC-52.10M	7/29/94	MT-105.11M	4/25/94
TC-52.20M	7/29/94		
MT-35.10M	1/30/95		
MT-35.11M	1/30/95		

DATE FOR COMPLETION

IN ADDITION TO THE REQUIREMENTS OF SECTION 108.06 OF THE OHIO DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIALS SPECIFICATIONS, AND IN CONSIDERATION OF THE DEPARTMENTS INTENTION TO PROVIDE THE AWARDED CONTRACTOR WITH A MORE FLEXIBLE TIME FRAME FOR PERFORMING REQUIRED CONSTRUCTION ACTIVITIES, THE AWARDED CONTRACTOR FOR THIS PROJECT SHALL BE GIVEN A DATE FOR PROJECT COMPLETION IN ACCORDANCE WITH THE FOLLOWING:

ALL CONSTRUCTION WORK ON THE PROJECT SHALL BE COMPLETED ON OR BEFORE THE THIRTIETH DAY FOLLOWING THE DATE OF THE DISTRICT HIGHWAY MANAGEMENT ADMINISTRATOR'S (OR DESIGNEE'S) WRITTEN AUTHORIZATION TO PROCEED WITH THE CONSTRUCTION ACTIVITIES, BUT NO LATER THAN THE COMPLETION DATE INDICATED IN THE PROPOSAL.

UTILITIES:

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK 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 FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

EXISTING BRIDGE PLANS

DETAIL DRAWINGS OF THE EXISTING BRIDGES MAY BE INSPECTED AT THE DISTRICT 9 BRIDGE OFFICE AT 650 EASTERN AVENUE IN CHILlicothe, OHIO.

EXISTING STRUCTURE VERIFICATION

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

CONTRACT BID PRICES SHALL BE BASED UPON THE RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES 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.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE REMOVAL OF EXISTING STRUCTURAL EXPANSION JOINT AS DETAILED ON SHEET NO. 9, 11, 13, AND 15 INCLUDING THE NEOPRENE STRIP SEAL, STEEL EXTRUSIONS, ELASTOMERIC CONCRETE, AND STRUCTURE CONCRETE IN AREA OF JOINT AS NEEDED TO ALLOW FOR PLACEMENT OF PROPOSED STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN.

THE BOUNDARIES OF THE EXISTING STRUCTURAL EXPANSION JOINT CONSTRUCTION JOINTS REMOVALS SHALL BE SAW CUT TO ALLOW FOR PLACEMENT OF PROPOSED STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN IN PART WIDTH WORK AREAS.

SOME OF THE EXISTING STRUCTURAL EXPANSION JOINT HAS BEEN ANCHORED BY DRILLING HOLES THROUGH THE ELASTOMERIC CONCRETE INTO CONCRETE SUBSTRATE AND THEN INSTALLING THREADED RODS ANCHORED WITH NON SHRINK, NON METALLIC GROUT. THESE ARE TO BE REMOVED FLUSH WITH CONCRETE SUBSTRATE REMOVAL.

ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED

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INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. ALL WORK SHALL BE DONE IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 41 KILOGRAM CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

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

THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL STRUCTURAL EXPANSION JOINT SYSTEM AS DETAILED ON SHEET NO. 10, 12, 14, AND 16. THE STRUCTURAL EXPANSION JOINT SYSTEM SHALL BE SUPPLIED BY ONE OF THE FOLLOWING SUPPLIERS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REPRESENTATIVE WHO SHALL BE PRESENT DURING THE INSTALLATION OF THE JOINT SYSTEM:

E-POXY INDUSTRIES, INC.
 14 WEST SHORE STREET
 RAVENA, NY 12143-1698
 PHONE NO. (513) 756-6193
 BRAND NAME OF ELASOMERIC CONCRETE - CEVACRETE

D.S. BROWN COMPANY
 P.O. BOX 158
 NORTH BALTIMORE, OH 45872
 PHONE NO. (419) 257-3561
 BRAND NAME OF ELASTOMERIC CONCRETE - DELCRETE

WATSON-BOWMAN & ACME CORP.
 95 PINEVIEW DRIVE
 AMHERST, NY 14120
 PHONE NO. (716) 691-7566
 BRAND NAME OF ELASTOMERIC CONCRETE - WABOCRETE

JOINTS TO BE REPLACED ARE AS FOLLOWS:

<u>LOCATION</u>	<u>LENGTH TO BE REPLACED</u>
BRIDGE NO. ROS-23-1202 R	
REAR ABUTMENT	0.0 METER
CONTINGENCY QUANTITY TO BE USED AS DIRECTED BY ENGINEER	6.4 METER
FORWARD ABUTMENT	0.0 METER
CONTINGENCY QUANTITY TO BE USED AS DIRECTED BY ENGINEER	6.4 METER
TOTAL FOR BRIDGE	12.6 METER
CARRIED TO GENERAL SUMMARY	13 METER

<u>LOCATION</u>	<u>LENGTH TO BE REPLACED</u>
BRIDGE NO. ROS-23-1257 R	
REAR ABUTMENT	14.9 METER
1 ST INTERMEDIATE JOINT	14.9 METER
2 ND INTERMEDIATE JOINT	14.9 METER
FORWARD ABUTMENT	14.9 METER
TOTAL FOR BRIDGE	59.6 METER
CARRIED TO GENERAL SUMMARY	60 METER

<u>LOCATION</u>	<u>LENGTH TO BE REPLACED</u>
BRIDGE NO. ROS-35-2036 L	
REAR ABUTMENT	12.2 METER
1 ST INTERMEDIATE JOINT	10.1 METER
2 ND INTERMEDIATE JOINT	10.1 METER
FORWARD ABUTMENT	12.2 METER
TOTAL FOR BRIDGE	44.6 METER
CARRIED TO GENERAL SUMMARY	45 METER

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ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (INSTALLATION ONLY)

THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL STRUCTURAL EXPANSION JOINT SYSTEM AS DETAILED ON SHEET NO. 10 THE STRUCTURAL EXPANSION JOINT SYSTEM SHALL BE SUPPLIED BY THE FOLLOWING SUPPLIER AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REPRESENTATIVE WHO SHALL BE PRESENT DURING THE INSTALLATION OF THE JOINT SYSTEM:

WATSON-BOWMAN & ACME CORP.
 95 PINEVIEW DRIVE
 AMHERST, NY 14120
 PHONE NO: (716) 691-7566
 BRAND NAME OF ELASTOMERIC CONCRETE - WABOCRETE

ALL MATERIALS ARE TO BE CONTRACTOR FURNISHED, EXCEPT THAT THE DEPARTMENT SHALL SUPPLY THE STRUCTURAL EXPANSION JOINT MATERIALS IN THE QUANTITIES SHOWN HEREIN TO THE CONTRACTOR. PAY ITEMS FOR THE DEPARTMENT SUPPLIED MATERIALS SHALL BE INDICATED AS "INSTALLATION ONLY". THE QUANTITY AND TYPE OF DEPARTMENT SUPPLIED MATERIALS ARE AS FOLLOWS:

STEEL EXTRUSION WITH ANCHOR, INSTALLATION ONLY	<u>18.3</u> METER
NEOPRENE STRIP SEAL, INSTALLATION ONLY	<u>30.5</u> METER

(THE STEEL EXTRUSION WITH ANCHOR DOES INCLUDE THE PLATE OR ANCHOR RODS NEEDED TO ANCHOR THE EXTRUSION. THE CONTRACTOR MUST PROVIDE AND INSTALL THESE ITEMS.)

JOINTS TO BE REPLACED ARE AS FOLLOWS:

<u>LOCATION</u>	<u>LENGTH TO BE REPLACED</u>
BRIDGE NO. ROS-23-1202 R	
REAR ABUTMENT _____	9.1 METER
(JOINT IN DRIVING LANE AND SHOULDER TO REMAIN IN PLACE)	
FORWARD ABUTMENT _____	9.1 METER
(JOINT IN DRIVING LANE AND SHOULDER TO REMAIN IN PLACE)	
TOTAL FOR BRIDGE _____	<u>18.2</u> METER
CARRIED TO GENERAL SUMMARY _____	18 METER

ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSION

THIS ITEM SHALL CONSIST OF FURNISHING THE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO REMOVE EXISTING ELASTOMERIC STRIP SEAL AND REPLACE IT WITH A NEW ELASTOMERIC STRIP SEAL. ELASTOMERIC STRIP SEAL SHALL BE SUPPLIED BY THE FOLLOWING SUPPLIER AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION RECOMMENDATIONS AND STANDARD DRAWING EXJ-4-87M:

D.S. BROWN COMPANY
 P.O. BOX 158
 NORTH BALTIMORE, OH 45872
 PHONE NO. (419) 257-3561
 BRAND NAME OF ELASTOMERIC CONCRETE - DELCRETE

ELASTOMERIC STRIP SEALS TO BE REPLACED ARE AS FOLLOWS:

<u>LOCATION</u>	<u>LENGTH TO BE REPLACED</u>
BRIDGE NO. ROS-35-2036R	
REAR ABUTMENT _____	12.2 METER
1 ST INTERMEDIATE JOINT _____	10.1 METER
2 ND INTERMEDIATE JOINT _____	10.1 METER
FORWARD ABUTMENT _____	<u>12.2</u> METER
TOTAL FOR BRIDGE _____	44.6 METER
CARRIED TO GENERAL SUMMARY _____	45 METER

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ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER TO PATCH THE CONCRETE SUBSTRATE AND PORTIONS OF EXISTING STRUCTURE AS NEEDED IN ORDER TO INSTALL THE PROPOSED STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN AS DETAILED ON SHEET 10, 12, 14, AND 16. WORK SHALL BE AS PER 519, WITH THE FOLLOWING MODIFICATIONS:

THE CONCRETE SHALL BE QUICK SETTING CONCRETE MORTAR IN ACCORDANCE WITH 705.01 EXTENDED BY A MAXIMUM OF 50 PERCENT BY DRY MORTAR WEIGHT WITH NO. 8 AGGREGATE MEETING THE REQUIREMENTS OF 703.02.

BONDING GROUT, PROPORTIONING, MIXING, AND CURING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY ARE AS FOLLOWS:

<u>LOCATION</u>	<u>ESTIMATED QUANTITY</u>	
BRIDGE NO. ROS-23-1202 R	19	SQ. METER
BRIDGE NO. ROS-23-1257 R	37	SQ. METER
BRIDGE NO. ROS-35-2036 L	27	SQ. METER

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ITEM 614. MAINTAINING TRAFFIC

ALL TRAFFIC CONTROL SIGNS, DEVICES AND OPERATIONS USED FOR THE TEMPORARY MAINTENANCE AND CONTROL OF TRAFFIC SHALL AT ALL TIMES BE SUBJECT TO THE DIRECTION AND CONTROL OF THE ENGINEER IN RESPECT TO THEIR CONDITIONS, LOCATIONS, AND TIMES OF APPLICATION. VISIBLE SIGNS AND DEVICES SHALL CONSISTENTLY REFLECT THE CONDITIONS ACTUALLY EXISTING. INAPPROPRIATE SIGNS OR DEVICES SHALL BE REMOVED OR COVERED. IT IS THE INTENT OF THE PLAN TO NOT REMOVE THE EXISTING PAVEMENT MARKINGS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, ERECTING OR REPLACING, MAINTAINING, AND REMOVING ALL TEMPORARY TRAFFIC CONTROL SIGNS, DEVICES, AND PAVEMENT MARKINGS THAT MAY BE REQUIRED BY THE CMS AND/OR THE OHIO MANUAL FOR THE MAINTENANCE OF THROUGH TRAFFIC.

THE FOLLOWING SEQUENCE OF CONSTRUCTION OPERATIONS IS SUGGESTED:

- I. PROVIDE TRAFFIC CONTROL AS PER STANDARD DRAWING MT-95.30M TO CLOSE LEFT AND CENTER LANES. WHILE MAINTAINING TRAFFIC IN RIGHT DRIVING LANE, REMOVE AND REPLACE STRUCTURAL EXPANSION JOINTS ON BRIDGE NO. ROS-23-1202R AND ROS-23-1257R IN CENTER AND LEFT LANES AND LEFT SHOULDER. REMOVE TRAFFIC CONTROL AND REOPEN ALL LANES TO TRAFFIC.
- II. PROVIDE TRAFFIC CONTROL AS PER STANDARD DRAWINGS MT-95.30M AND MT-98.15M TO CLOSE RIGHT LANE. WHILE MAINTAINING TRAFFIC IN LEFT AND CENTER LANES, REMOVE AND REPLACE STRUCTURAL EXPANSION JOINTS ON BRIDGE NO. ROS-23-1257R IN RIGHT LANE AND RIGHT SHOULDER. REMOVE TRAFFIC CONTROL AND REOPEN ALL LANES TO TRAFFIC.
- III. PROVIDE TRAFFIC CONTROL AS PER STANDARD DRAWING MT-95.30M TO CLOSE LEFT LANES. WHILE MAINTAINING TRAFFIC IN RIGHT DRIVING LANES, REMOVE AND REPLACE STRUCTURAL EXPANSION JOINTS ON BRIDGE NO. ROS-35-2036L AND ROS-35-2036R IN THE LEFT LANE AND LEFT SHOULDER. REMOVE TRAFFIC CONTROL AND REOPEN ALL LANES TO TRAFFIC.
- IV. PROVIDE TRAFFIC CONTROL AS PER STANDARD DRAWINGS MT-95.30M, MT-98.14M, AND MT-98.15M TO CLOSE RIGHT LANES. WHILE MAINTAINING TRAFFIC IN LEFT LANES, REMOVE AND REPLACE STRUCTURAL EXPANSION JOINTS ON BRIDGE ROS-35-2036L AND ROS-35-2036R IN RIGHT LANE AND RIGHT SHOULDER. REMOVE TRAFFIC CONTROL AND REOPEN ALL LANES TO TRAFFIC.

THE CONTRACTOR'S RESPONSIBILITY, UNDER 614, FOR THE MAINTENANCE OF EXISTING PAVEMENTS SHALL BE LIMITED TO THOSE AREAS OF THE EXISTING PAVEMENT WITHIN THE PROPOSED ROADWAY WORK LIMITS AND SHALL NOT INCLUDE THE WORK LIMITS REQUIRED ONLY FOR TEMPORARY SIGNING AND PAVEMENT MARKING.

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THERE FROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE DIRECTOR.

IN ADDITION TO THE REQUIREMENTS OF ITEM 614 MAINTAINING TRAFFIC, THE CONTRACTOR SHALL HAVE AVAILABLE A LOCAL REPRESENTATIVE WHO CAN BE REACHED IN CASES OF EMERGENCIES WITH THE TRAFFIC CONTROL DEVICES. THIS INDIVIDUAL'S NAME AND PHONE NUMBER SHALL BE FURNISHED TO THE ENGINEER AND MADE AVAILABLE TO ALL LOCAL LAW ENFORCEMENT AGENCIES. IN CASES OF EMERGENCIES, THE CONTRACTOR SHALL WITHIN ONE (1) HOUR PROMPTLY RESPOND IN ADDRESSING MALFUNCTIONS, FAILURES, AND/OR DAMAGES TO THE TRAFFIC CONTROL DEVICES AND PROTECT AND PROVIDE MAINTENANCE TO THE TRAVELING PUBLIC. IF, IN THE OPINION OF THE ENGINEER, PROPER RESPONSE IS

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NOT BEING PROVIDED BY THE CONTRACTOR OR THE CONTRACTOR'S LOCAL REPRESENTATIVE CANNOT BE REACHED, THE DEPARTMENT MAY TAKE THE NECESSARY STEPS TO PROTECT THE TRAVELING PUBLIC AND/OR PLACE THE TRAFFIC CONTROL DEVICES IN PROPER WORKING CONDITION WITH THE COST OF SUCH SERVICES DEDUCTED FROM ANY MONEY WHICH MAY BE DUE OR BECOME DUE THE CONTRACTOR.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM	DESCRIPTION	QUANTITY	
614	TEMPORARY EDGE LINE, CLASS I, 740.06, TYPE I	1.960	KILOMETER
614	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	10	CU. METER

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.
- DURING PERIODS THAT ADDITIONAL TRAFFIC CONTROL IS NEEDED IN ORDER TO MAINTAIN THE FLOW OF TRAFFIC, AS DIRECTED BY THE ENGINEER.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

STATE OF OHIO HIGHWAY PATROL
201 HOSPITAL ROAD
CHILLICOTHE, OHIO 45601
1-614-775-7770

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM SPECIAL, LAW ENFORCEMENT OFFICER WITH PATROL CAR 80 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

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MAINTENANCE OF TRAFFIC

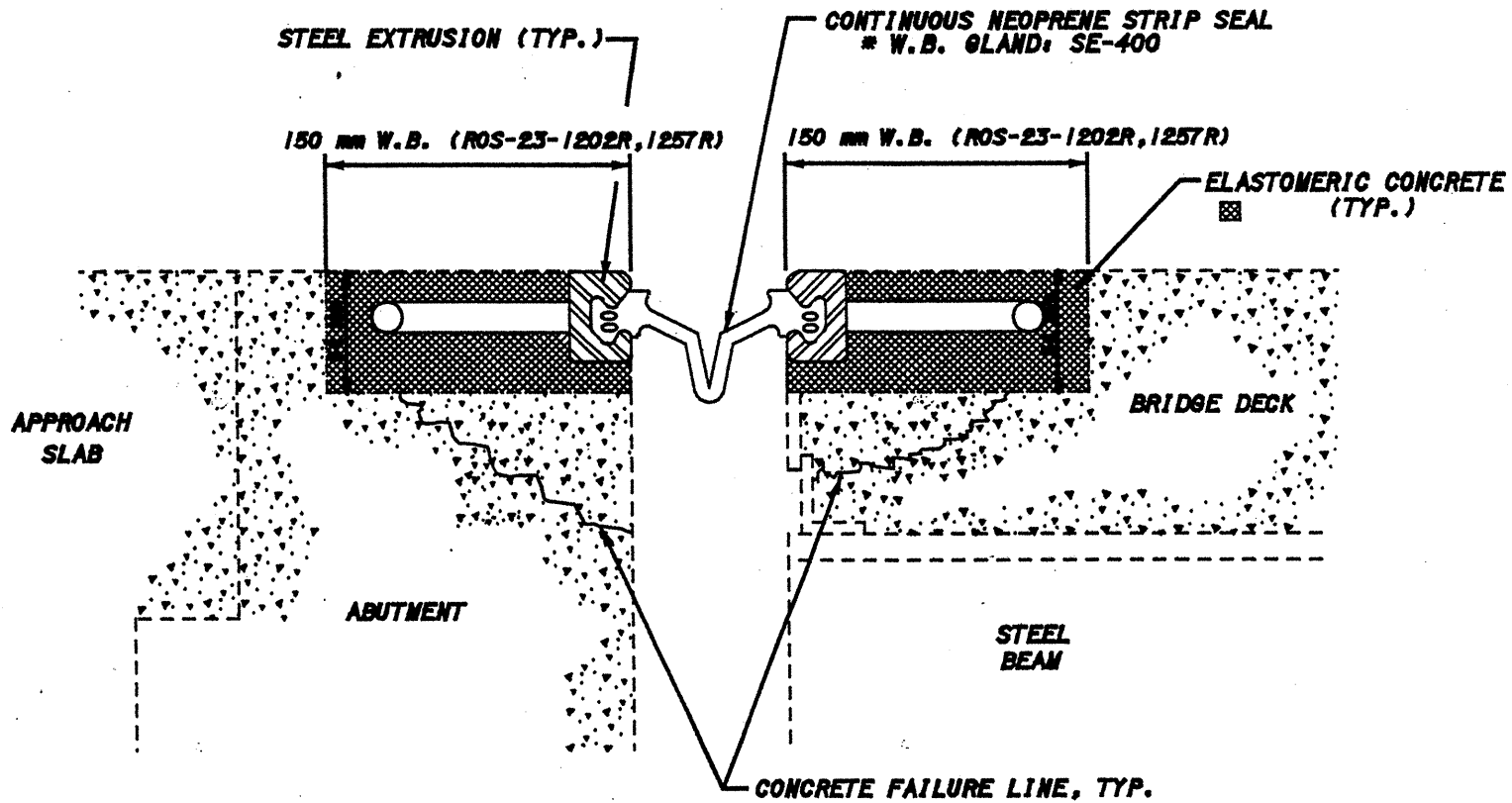
ROS-23/35-19.344VAR

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SHEET NUMBER					ITEM	ITEM EXT.	QUAN.	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5		7						
CAST-IN-PLACE STRUCTURES										
BRIDGE NO. ROS-23-1202R STRUCTURAL FILE NUMBER 7100728										
					202	11204	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	2,3
13					516	11211	13	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	3
	18				516	11211	18	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (INSTALLATION ONLY)	4
		19			519	11101	19	SQ. METER	PATCHING CONCRETE STRUCTURES, AS PER PLAN	5
BRIDGE NO. ROS-23-1257R STRUCTURAL FILE NUMBER 7100787										
					202	11204	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	2,3
60					516	11211	60	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	3
		37			519	11101	37	SQ. METER	PATCHING CONCRETE STRUCTURES, AS PER PLAN	5
BRIDGE NO. ROS-35-2036L STRUCTURAL FILE NUMBER 7101988										
					202	11204	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	2,3
45					516	11211	45	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	3
		27			519	11101	27	SQ. METER	PATCHING CONCRETE STRUCTURES, AS PER PLAN	5
BRIDGE NO. ROS-35-2036R STRUCTURAL FILE NUMBER 7102011										
	45				516	01300	45	METER	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSION	4
MAINTENANCE OF TRAFFIC										
					80	SPECIAL 61411100	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	7
					10	614 13000	10	CU. METER	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	
					1.960	614 22200	1.960	KILOMETER	TEMPORARY EDGE LINE, CLASS I, 740.06, TYPE I	
					614	11000	LUMP		MAINTAINING TRAFFIC	
					624	10000	LUMP		MOBILIZATION	

16	8	ROS-23/35-19.344/VAR	GENERAL SUMMARY	DESIGNED JTH CHECKED LAW	DISTRICT 9 PRODUCTION
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* W.B. - WATSON BOWMAN ACME JOINT

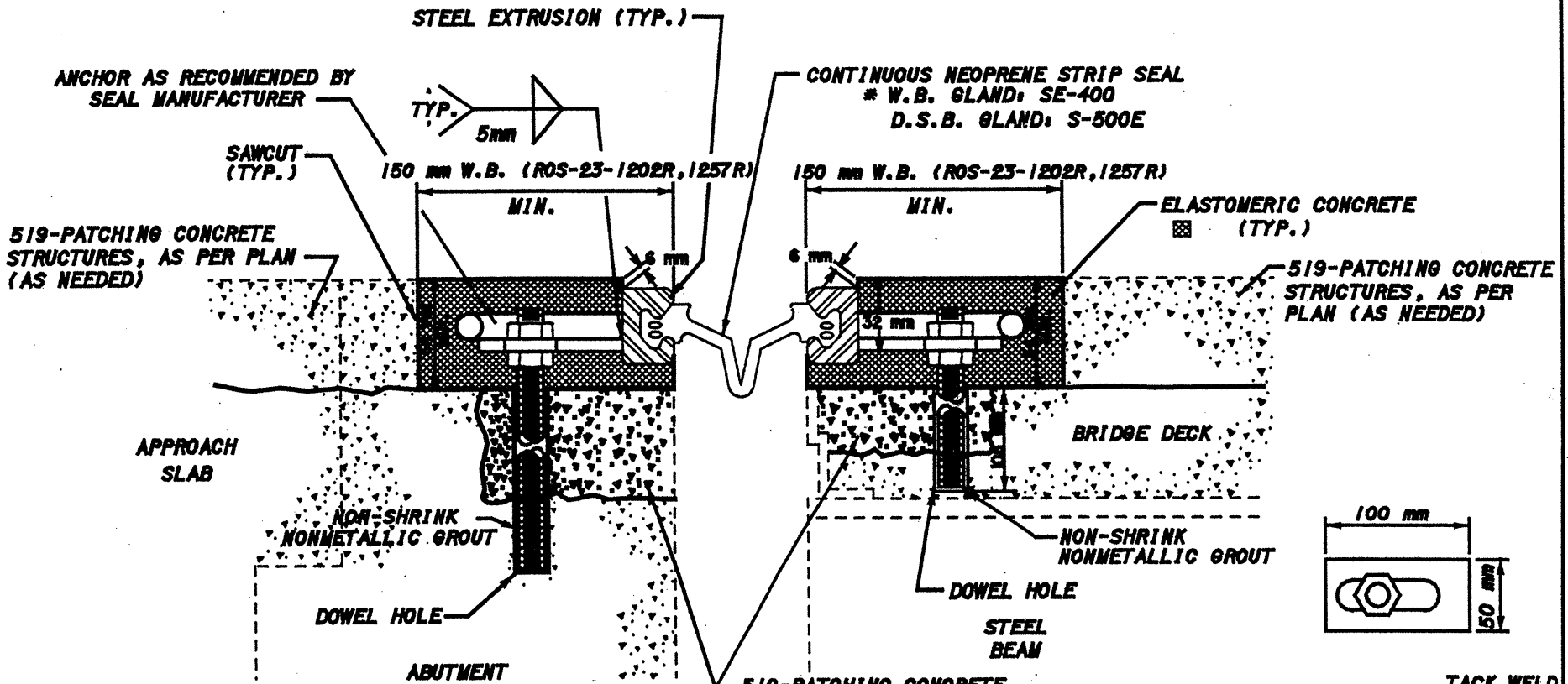


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EXISTING ABUTMENT EXPANSION JOINTS
BR. NO. ROS-23-1202R & ROS-23-1257R

DESIGNED
JTH
CHECKED
LAW

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 2 PRODUCTION



- NOTES:
1. SEE STD. DWG. EXJ-4-87M FOR STEEL EXTRUSION AND NEOPRENE STRIP SEAL DETAILS AND REQUIREMENTS NOT SHOWN.
 2. DOWEL HOLES AND GROUT SHALL BE IN ACCORANCE WITH SECTION 510 OF THE CMS AND PAYMENT SHALL BE INCLUDED WITH 516 STRUCTURAL EXPANSION JOINT.
 3. STUD ANCHOR AND NUTS SHALL BE ASTM A325M IN ACCORDANCE WITH SECTION 513.15 OF THE CMS AND PAYMENT SHALL BE INCLUDED IN 516 STRUCTURAL EXPANSION JOINT.

M16 STUD ANCHOR WITH MACHINE THREADS - FULL LENGTH AND TWO SHALLOW HEX NUTS PER STUD, 305 mm LENGTH FOR ABUTMENT, 150 mm LENGTH FOR DECK, PLACED 457 mm CENTER TO CENTER

* W.B. - WATSON BOWMAN ACME JOINT
D.S.B. - D.S. BROWN CO. JOINT

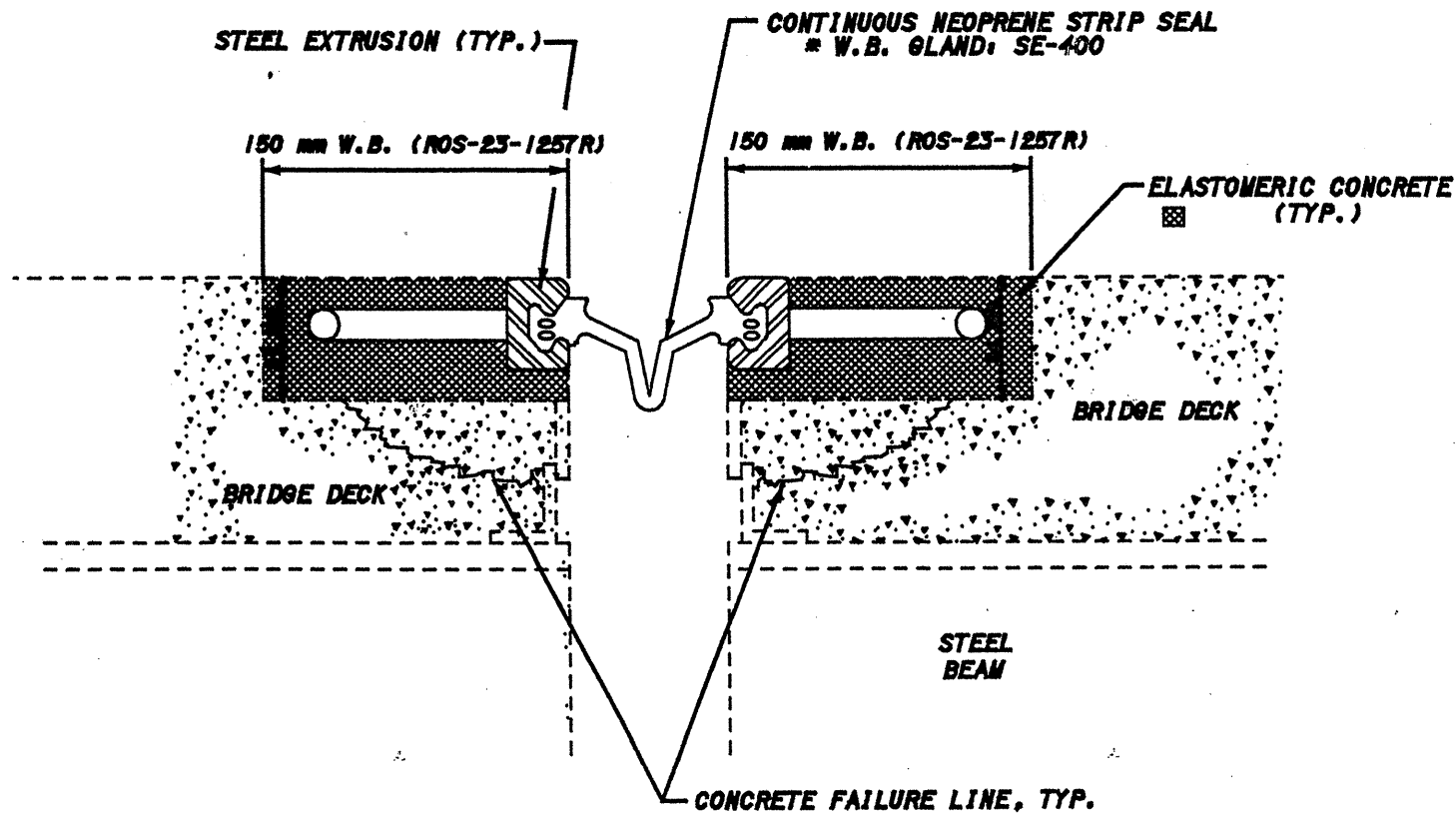


ROS-23/35-19.344/VAR.

PROPOSED REPAIR OF ABUTMENT EXPANSION JOINTS
BR. NO. ROS-23-1202R & ROS-23-1257R

DESIGNED
JTH
CHECKED
LAW

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 PRODUCTION



* W.B. - WATSON BOWMAN ACME JOINT



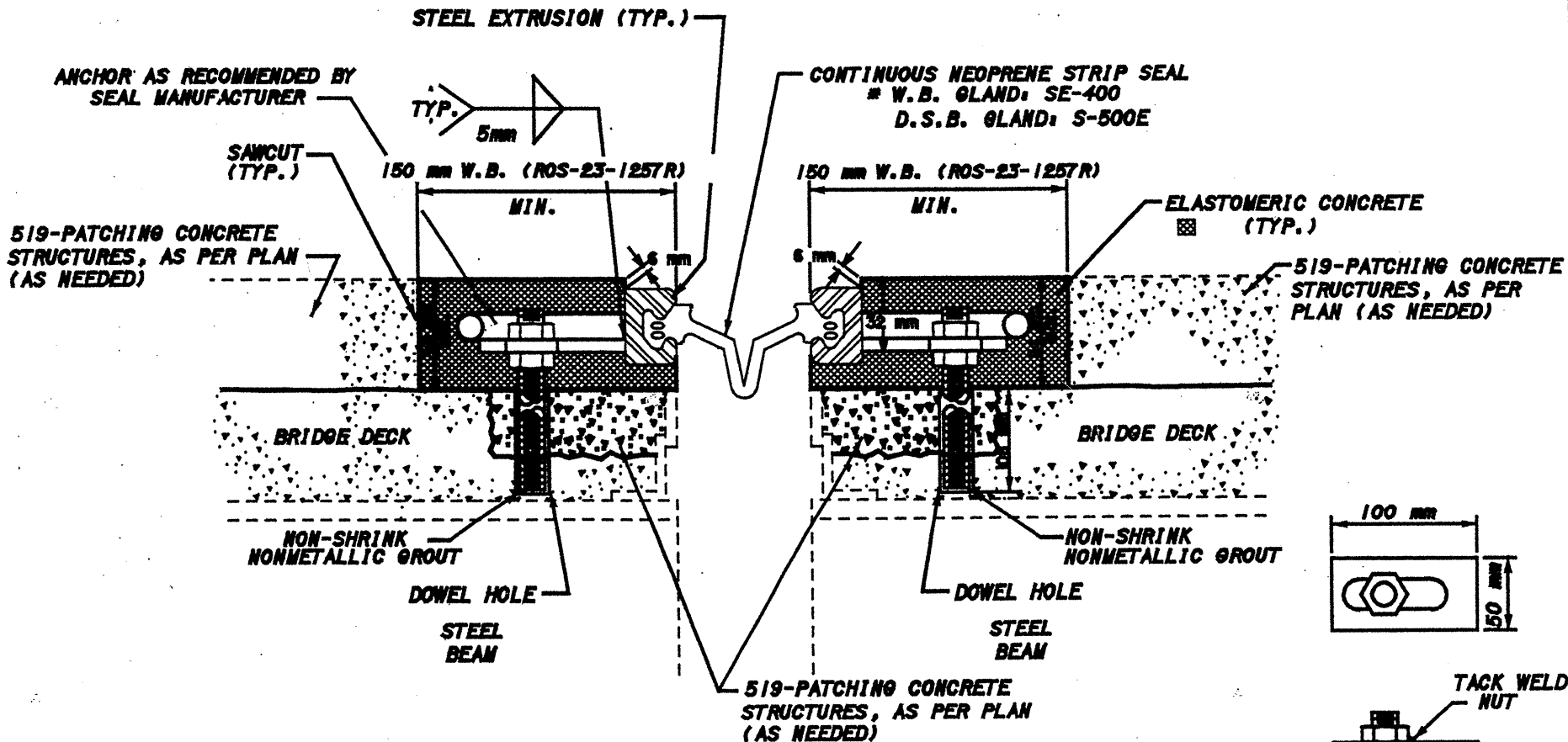
ROS-23/35-19.344/VAR.

EXISTING INTERMEDIATE EXPANSION JOINTS
BR. NO. ROS-23-1257R

DESIGNED
JTH
CHECKED
LAW

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 PRODUCTION

CONTRACT 3519-3-1111



NOTES: 1. SEE ADDITIONAL NOTES ON SHEET

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* W.B. - WATSON BOWMAN ACME JOINT
D.S.B. - D.S. BROWN CO. JOINT

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ROS-23/35-19.344/VAR.

PROPOSED REPAIR OF INTERMEDIATE EXPANSION JOINTS
BR. NO. ROS-23-1257R

DESIGNED
JTH
CHECKED
LAW

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 PRODUCTION

STATE OF OHIO