

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

LOR-511-13.41

VILLAGE OF KIPTON
CAMDEN TOWNSHIP
HENRIETTA TOWNSHIP
NEW RUSSIA TOWNSHIP
LORAIN COUNTY

PROJECT DESCRIPTION

THIS PROJECT IS 5.05 MILES LONG AND WILL INCLUDE PAVEMENT REPAIR, RESURFACING WITH ASPHALT CONCRETE, PLACEMENT OF PAVEMENT MARKINGS, AND STRUCTURE MAINTENANCE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A
(MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A
(MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA: N/A
(MAINTENANCE PROJECT)

2013 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.

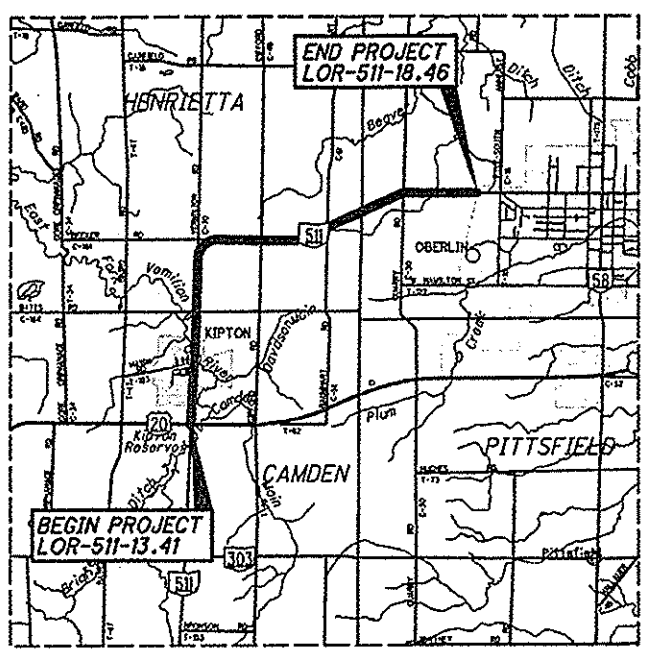
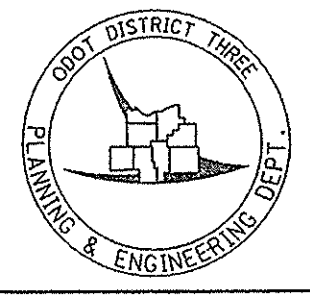
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: Al C. Buell
DATE: 8-28-14 DISTRICT DEPUTY DIRECTOR

APPROVED: James W. Wright
DATE: 9-15-14 DIRECTOR DEPARTMENT OF TRANSPORTATION

PLANS PREPARED BY:

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988



LATITUDE: N 41° 17' 13" LONGITUDE: W 82° 17' 54"
SCALE IN MILES
0 0.5 1 2

PORTION TO BE IMPROVED: _____
INTERSTATE & DIVIDED HIGHWAY: _____
UNDIVIDED STATE & FEDERAL ROUTES: _____
OTHER ROADS: _____

DESIGN EXCEPTIONS: _____ NONE REQUIRED

DESIGN DESIGNATION SEE SHEET 2

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3
GENERAL NOTES	4-5
MAINTENANCE OF TRAFFIC NOTES	6
MAILBOX FACILITIES	7
GENERAL SUMMARY	8-8A
PAVEMENT & SHOULDER DATA	9
PAVEMENT MARKING AND RPM SUBSUMMARY	10
PAVEMENT MARKING AND SIGNING DETAILS	11
ROADWAY SUBSUMMARY	12
GUARDRAIL NOTES	13
GUARDRAIL DETAILS	14-17
STRUCTURE SUMMARY	18
STRUCTURE NOTES	19
STRUCTURE TREATMENT	20
STRUCTURE LOR-511-1420	21-22
PIS GR-1.1	23-25
PIS GR-2.1	26-27
PIS GR-3.4	28
PIS GR-4.1	29
PIS GR-4.2	30-31

ROADWAY ENGINEERS SEAL:
STATE OF OHIO
CRAIG A. DEVORE
E-70370
REGISTERED PROFESSIONAL ENGINEER
SIGNED: C. A. Devore
DATE: 8-28-2014

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS
BP-3.1	07/18/14	MT-97.10	07/18/14			800 10/17/14
BP-4.1	07/19/13	MT-97.12	07/18/14			830 01/17/14
		MT-99.20	07/19/13			832 01/17/14
DM-4.3	07/19/13	MT-101.90	07/18/14			846 04/18/14
DM-4.4	07/20/12	MT-105.10	07/19/13			
TC-41.20	10/18/13					
TC-42.20	10/18/13	DBR-2-73	07/19/02			
TC-52.10	10/18/13	DBR-3-11	07/15/11			
TC-52.20	07/18/14					
TC-61.30	07/18/14	PM-1.1	07/18/14			
TC-65.10	01/17/14					
TC-65.11	07/18/14					
TC-71.10	01/17/14					

SPECIAL PROVISIONS

LOR - SR 511-13.41
140563 PID - 88767
Dist 3 11/26/2014

Contract Proposal Available @ www.
Contracts.dot.state.oh.us/home

DESIGNATION: 13.41
WORKSTATION: 13.41

FEDERAL PROJECT NO. E101139
PID NO. 88767
CONSTRUCTION PROJECT NO. NONE
RAILROAD INVOLVEMENT NONE
LOR-511-13.41
1/31



STRUCTURE LOR-511-1420 (SFN 4700945)

ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	38603	225	FT	BRIDGE RAILING REMOVED FOR REUSE, AS PER PLAN	19
202	98200	60	FT	REMOVAL MISC.: POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	19
512	10100	99	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	74000	99	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE STRUCTURES	
517	75600	225	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
846	00100	60	FT	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	

18

31

LOR-511-13.41

PID No. 88767

STRUCTURE SUMMARY

DESIGNED
CAG

CHECKED
CAD

DRAWN
CAG

REVIEWED
CAG

DATE

DESIGN AGENCY
ODOT DISTRICT THREE OFFICE
OF PLANNING AND ENGINEERING

DESIGN FILE\\projects\88767\structures\88767GN001.dgn
WORKSTATIONtgoodnig DATE:8/28/2014

REFERENCES SHALL BE MADE TO STANDARD BRIDGE DRAWINGS:

DBR-3-11 DATED 7/15/11
DBR-2-73 DATED 7/19/02

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2003, 2004, 2005 AND 2006 SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM 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.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE BID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING PLANS:

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH.

STRUCTURE#	PLAN NAME	DATE
LOR-511-1420	LOR-511-14.18	1991

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.

DECK PROTECTION METHOD:

ASPHALT CONCRETE OVERLAY.

PLACING ASPHALT CONCRETE ON APPROACHES TO BRIDGES:

SPECIAL CARE SHALL BE TAKEN WHEN PLACING THE ASPHALT CONCRETE BUTT JOINT TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK, THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

ITEM 202 - BRIDGE RAILING REMOVED FOR REUSE, AS PER PLAN:

THIS ITEM SHALL BE USED TO REMOVE AND REINSTALL THE EXISTING BRIDGE RAILING FOR WORK ON LOR-511-1420 IF NECESSARY. BRIDGE RAILING POSTS ARE TO REMAIN IN PLACE. GUARDRAIL MUST BE UP WHEN FLAGGERS ARE NOT PRESENT (SEE SCD MT-101.90).

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 202 - REMOVAL MISC.: POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM:

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING POLYMER MODIFIED JOINT SYSTEM BETWEEN THE BRIDGE DECK AND THE ABUTMENT.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

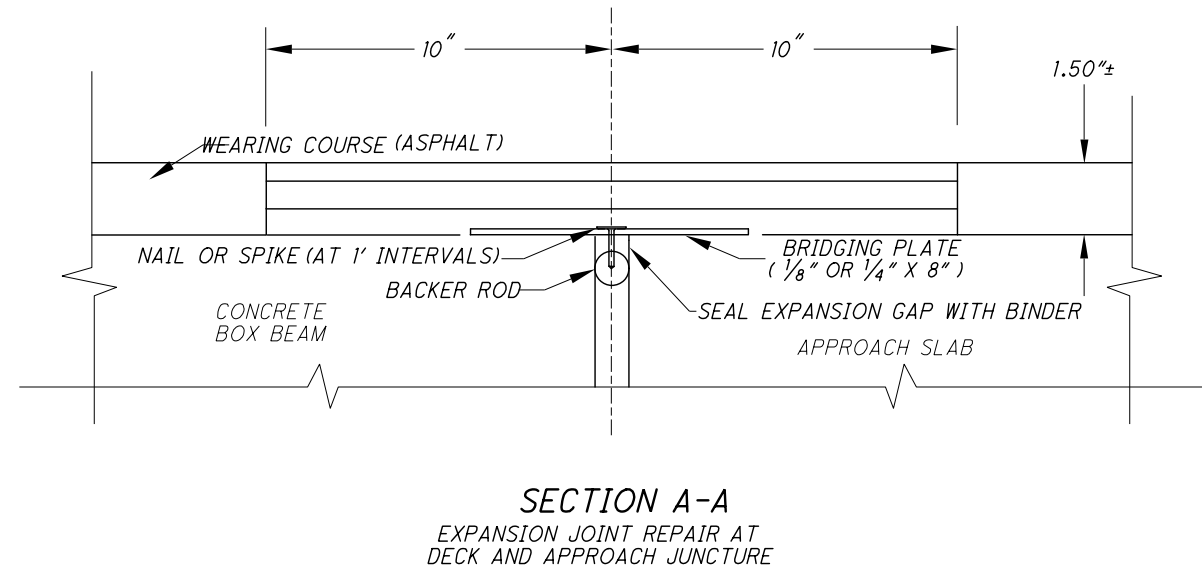
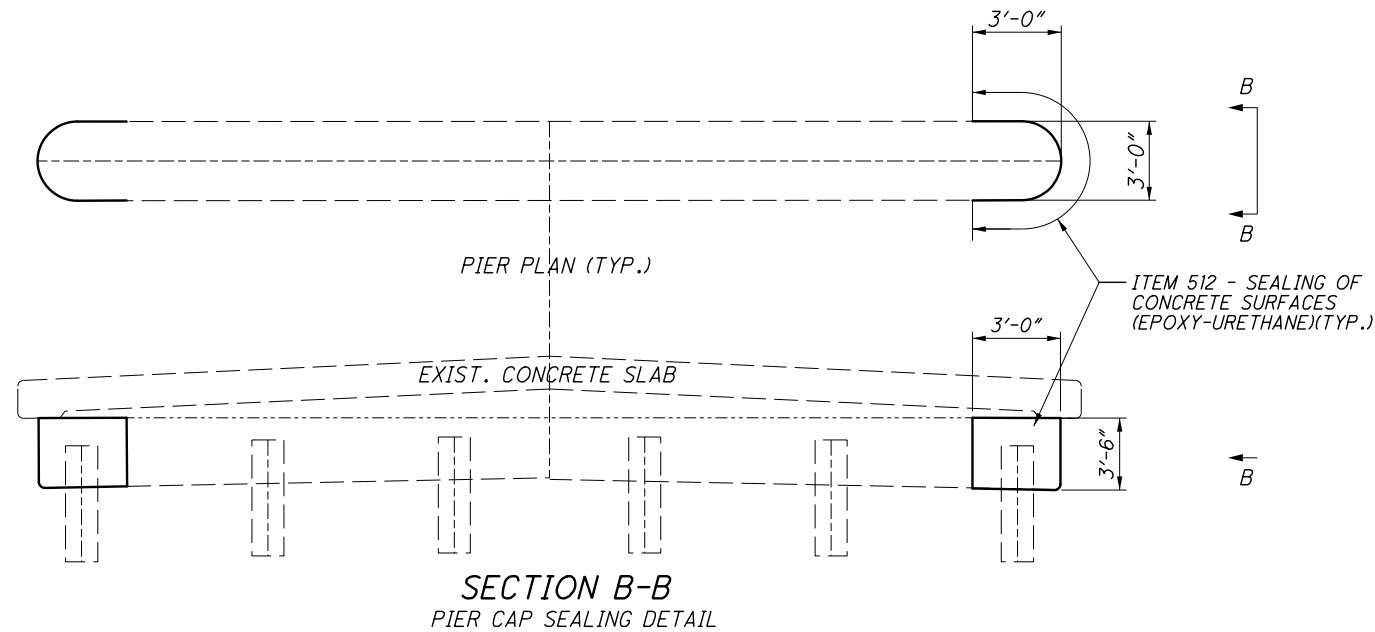
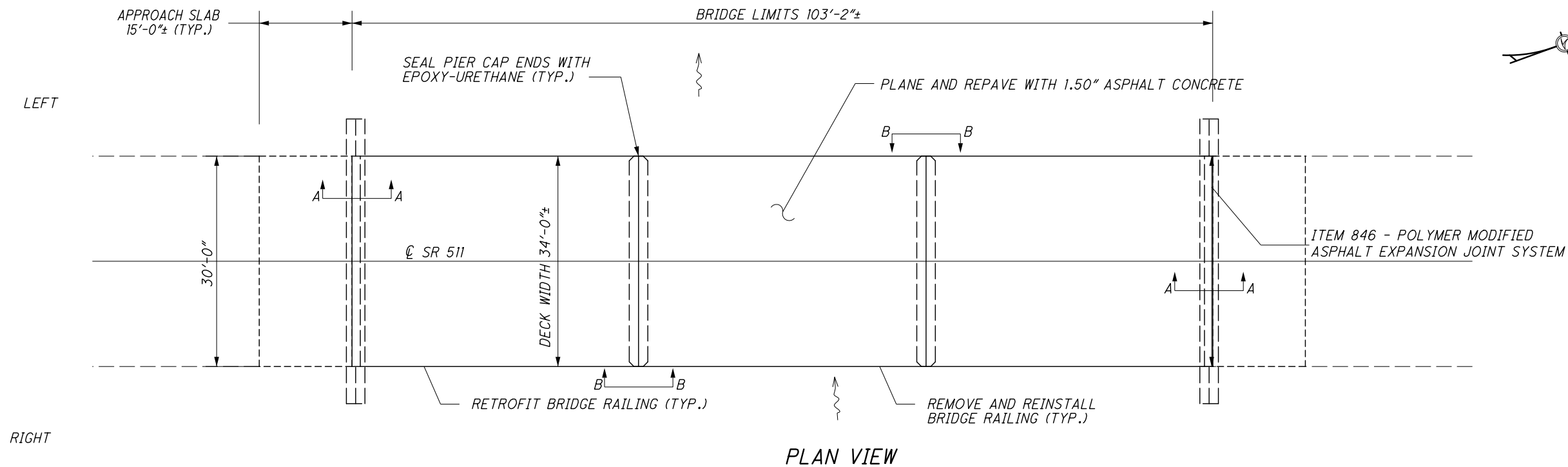
ITEM 614 - MAINTAINING TRAFFIC FOR STRUCTURES LOR-511-1420:

TWO WAY TRAFFIC ON STRUCTURES LOR-511-1420 SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THE STRUCTURES MAY HAVE A LANE CLOSURE DURING NORMAL WORKING HOURS USING FLAGGERS AS SHOWN ON STANDARD DRAWING MT-97.10.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

BRIDGE DECK DATA									ROADWAY DATA		
	COUNTY, ROUTE, BRIDGE NO.	LOCATION	STRUCTURE TYPE	LENGTH (BRIDGE DECK)	WIDTH	BRIDGE DECK AREA	SKEW	EXISTING WEARING SURFACE	EXISTING PAVEMENT WIDTH	EXISTING APPROACH SLAB WIDTH	EXISTING APPROACH SLAB LENGTH
				FT.	FT.	SY.			FT.	FT.	FT.
	+ LOR-511-1420	OVER EAST FORK OF VERMILION RIVER	PRESTRESSED CONCRETE BOX BEAM	103	30	343	0°	ASPHALT	30	30	15

+ PLANE AND PAVE OVER STRUCTURE (SEE DETAILS IN PLAN FOR STRUCTURE WORK). (SEE ROADWAY PLANS FOR PLANING AND PAVING QUANTITIES).



ITEM	QUANTITY	UNIT	DESCRIPTION
202	225	FT	BRIDGE RAILING REMOVED FOR REUSE, AS PER PLAN
202	60	FT	REMOVAL MISC.: POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM
512	99	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	99	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
517	225	FT	DEEP BEAM BRIDGE RETROFIT RAILING
846	60	FT	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

NOTES:

- 1) GUARDRAIL NOT SHOWN IN THE PLAN VIEW.
- 2) FOR DEEP BEAM BRIDGE RETROFIT RAILING DETAILS, SEE DBR-3-II.
- 3) SEAL PIER CAPS ENDS 3'-0" ALL AROUND WITH ITEM 512 - SEALING CONCRETE SURFACES (EPOXY-URETHANE)
- 4) SEE STRUCTURE SHEET 2/2 FOR WINGWALL, ABUTMENT, AND DECK EDGE DETAILS.

ITEM	QUANTITY	UNIT	DESCRIPTION
512	87	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	87	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES

NOTES:
1) SEAL ALL EXPOSED WINGWALL AND ABUTMENT SURFACES AS SHOWN WITH ITEM 512 O SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

2) ALL QUANTITIES CARRIED TO SHEET 1/2.

