ASD - 250 – 0.00

STATE OF OHIO, DEPARTMENT OF TRANSPORTATION

FEDERAL-AID PROJECT NO. E034(155)

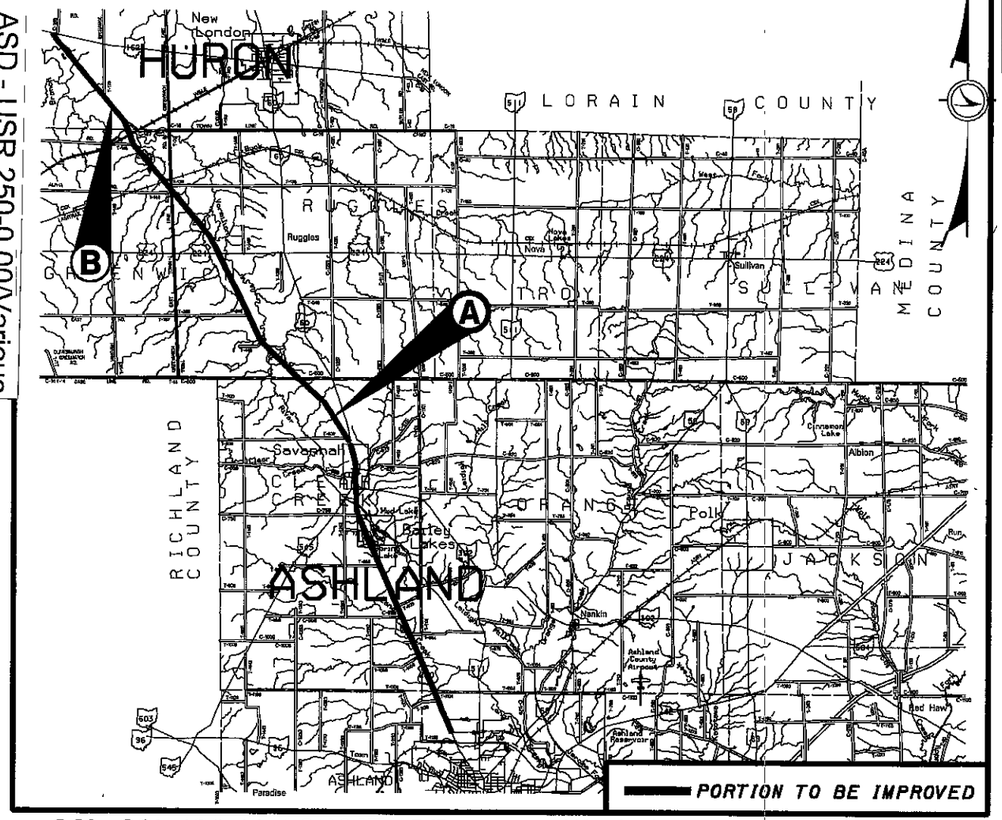
PID NO. 23587

CONSTRUCTION PROJECT NO. ASD-250-0.00

RAILROAD INVOLVEMENT NONE

ASD - USR 250-0.00/Various
050344 PID - 23587
Dist 3 6/22/2005

LOCATION MAP



82° 26' 10" W LONGITUDE 41° 02' 52" N LATITUDE

PART	COUNTY	ROUTE	PROJECT TERMINI (STRAIGT LINE MILEAGE)		NET LENGTH (MILES)	CITY	VILLAGE
			BEGIN	END			
A	ASHLAND	US 250	0.00	12.56	12.56	N/A	SAVANNAH/BAILEY LAKES
B	HURON	US 250	15.83	19.82	3.99	N/A	N/A

INDEX OF SHEETS

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE PAVEMENT PLANING, PAVEMENT REPAIR, RESURFACING WITH ASPHALT CONCRETE, ADJUSTMENT OF CASTINGS WHERE NECESSARY, GUARDRAIL, PAVEMENT MARKINGS, AND MINOR BRIDGE REHABILITATION WORK.

PROJECT EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
ESTIMATED CONCTRACTOR EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)

CONVERSION OF METRIC STANDARD DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSIONS FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CMS. CONVERSIONS SHALL BE APPROXIMATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE

2002 SPECIFICATIONS

THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PLAN AND PROPOSAL.

Thomas M. O'Leary ACS
DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION — 2-25-05 APPROVED DATE

Gordon Proctor
DIRECTOR, DEPARTMENT OF TRANSPORTATION — 4-6-05 APPROVED DATE

ENGINEER'S SEAL

ROADWAY	BRIDGE
STATE OF OHIO MICHAEL JOSEPH SCHAFRATH 57243 REGISTERED PROFESSIONAL ENGINEER	STATE OF OHIO
SIGNED: Michael J Schafrath DATE: 2/25/05	SIGNED: Carl C. Mollenkopf DATE: 2/23/05

STANDARD DRAWINGS

BP-3.1	07-16-04	MT-96.11	04-19-02
BP-4.1	07-16-04	MT-96.20	04-19-02
BP-5.1	07-28-00	MT-96.25	04-20-01
DM-4.3	07-19-02	MT-97.10	04-19-02
DM-4.4	07-19-02	MT-97.12	04-19-02
GR-1.1	07-16-04	MT-99.20M	01-30-95
GR-2.1	01-16-04	MT-101.20	10-18-02
GR-2.2	04-18-03	MT-101.60	10-18-02
GR-3.4	04-18-03	MT-101.70	10-18-02
GR-3.6	01-16-04	MT-105.10	10-18-02
GR-5.1	04-18-03	MT-105.11	10-18-02
GR-5.2	01-16-04	TC-41.20	01-19-01
GR-5.3	01-16-04	TC-65.10	01-21-05
RM-1.1	04-18-03	TC-65.11	01-21-05
RM-4.2	04-18-03	TC-71.10	01-21-05
LA-1.1	07-28-00	TC-73.10	01-19-01
CB-2.2	07-19-02	TC-82.10	04-19-02
PCB-91	07-19-02		
TST-1-99	10-17-03		

SUPPLEMENTAL SPECIFICATIONS

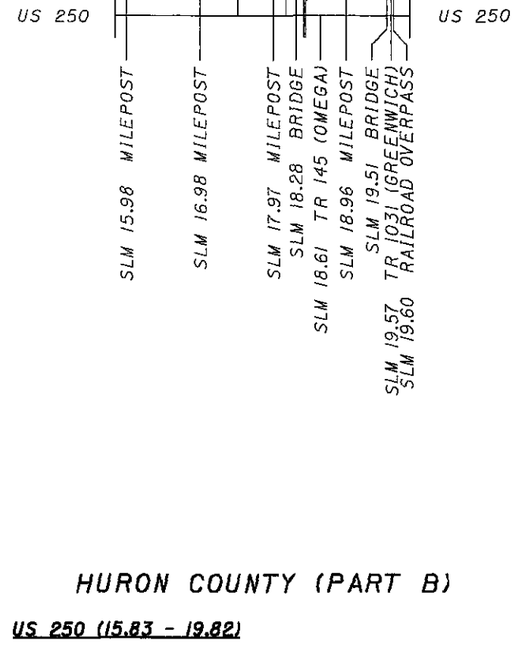
832	04-17-04
833	02-12-03
846	10-15-04
848	02-08-02
864	07-11-00
908	04-18-03
954	09-09-97

TWO WORKING DAYS BEFORE YOU DIG
Call- 800-362-2764
TOLL FREE
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

DISTRICT THREE PRODUCTION DEPARTMENT

DESIGN FILE: I:\projects\23587\GT100.dgn DATE: 2/25/2005
WORKSTATION: sdeer

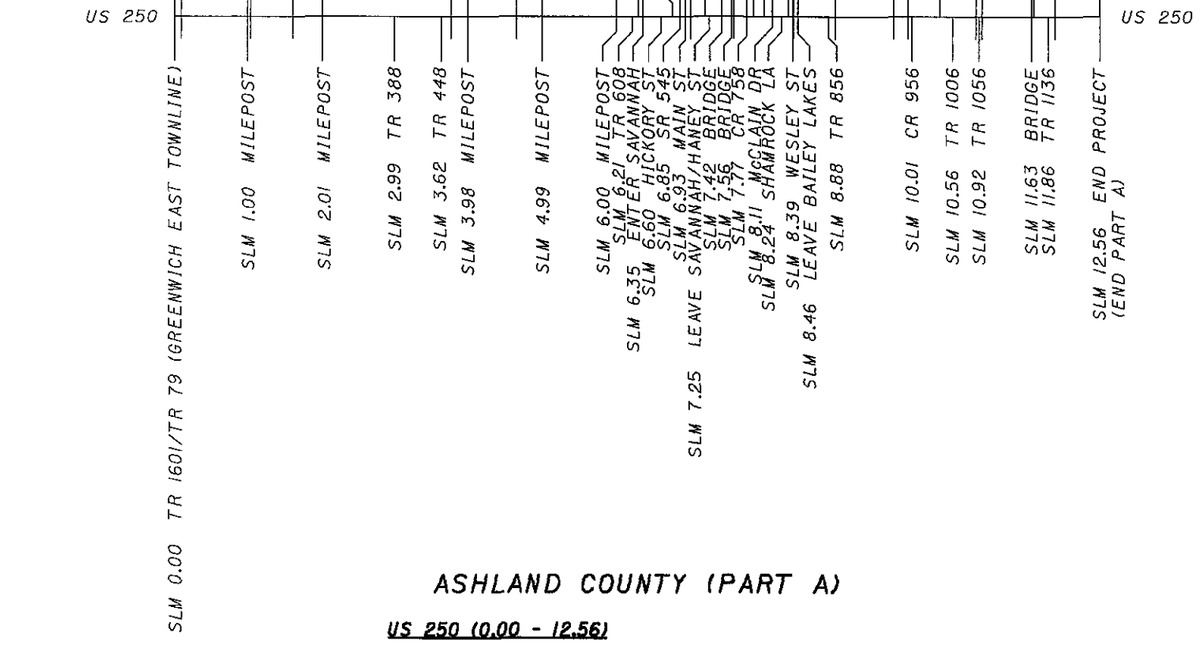
STRAIGHT LINE DIAGRAM



HURON COUNTY (PART B)

US 250 (15.83 - 19.82)

CURRENT ADT (2005)	6340
DESIGN YEAR ADT (2017)	7590
DESIGN HOURLY VOLUME (2017)	759
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	24.50%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION: RURAL PRINCIPAL ARTERIAL	
NHS PROJECT	YES



ASHLAND COUNTY (PART A)

US 250 (0.00 - 12.56)

CURRENT ADT (2005)	6340
DESIGN YEAR ADT (2017)	7590
DESIGN HOURLY VOLUME (2017)	759
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	24.50%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION: RURAL PRINCIPAL ARTERIAL	
NHS PROJECT	YES

CALCULATED SJD
CHECKED MJS

ASD-250-0.00

DESIGN FILE: i:\projects\23587\GB100.dgn
WORKSTATION: sdeer
DATE: 2/25/2005

REFERENCES SHALL BE MADE TO STANDARD DRAWINGS LIST WITH DATES AND SUPPLEMENTAL SPECIFICATIONS:

RM-4.2	DATED	04-18-2003
TST-1-99	DATED	10-17-2003
PCB-91	DATED	07-19-2002
MT-96.20	DATED	04-19-2002
MT-96.25	DATED	04-20-2001
MT-101.20	DATED	10-18-2002
MT-101.60	DATED	10-18-2002
MT-101.70	DATED	10-18-2002
846	DATED	10-15-2004
848	DATED	02-08-2002
864	DATED	07-11-2000
908	DATED	04-18-2003
954	DATED	09-09-1997

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 FROM FIELD OBSERVATION 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, AND 105.02. THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OHIO.

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

DESIGN DATA:

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 PSI
CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 PSI

REINFORCING STEEL - ASTM A615, A996 - GRADE 60
MINIMUM YIELD STRENGTH 60,000 PSI

DESIGN SPECIFICATIONS:

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

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE CONTRACTOR REMOVING MATERIAL THE ENTIRE WIDTH OF THE DECK. THE CONTRACTOR SHALL DETERMINE THE DEPTH OF THE REMOVED MATERIAL BASED ON THE HEIGHT OF THE EXISTING GUARDRAIL, THE HEIGHT OF THE PROPOSED GUARDRAIL, AND THE THICKNESS OF THE PROPOSED ASPHALT OVERLAY. THE PROPOSED GUARDRAIL HEIGHT SHALL BE ACCORDING TO SCD DBR-2-73. THE CONTRACTOR SHALL HAVE, AT MINIMUM, THE SURFACE COURSE, AT PLAN THICKNESS, PLACED WITH THE REST OF THE PAVING OPERATIONS.

THE CONTRACTOR SHALL USE CAUTION IN REMOVING THE MATERIAL. IF ANY BEAMS BECOME DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE BEAMS TO THEIR ORIGINAL CONDITION AND REPLACE ANY DAMAGED WATERPROOFING AT NO ADDITIONAL COST TO THE STATE

PORTIONS OF STRUCTURE REMOVED

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED 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 THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL

ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN

THE COARSE AGGREGATE SHALL CONSIST OF LIMESTONE. PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN

THE COARSE AGGREGATE SHALL CONSIST OF LIMESTONE. PAYMENT FOR THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQUARE YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

STRUCTURE PROTECTION:

THE EXPANSION JOINT SEAL AT THE ENDS OF BRIDGES SHALL BE PROTECTED FROM GRAVITY FED RESIN OR ANY OTHER SEALER. NO GRAVITY FED RESIN OR OTHER SEALER SHALL BE ALLOWED TO COME INTO CONTACT WITH AN EXPANSION JOINT SEAL. IF GRAVITY FED RESIN OR OTHER SEALER COMES INTO CONTACT WITH THE EXPANSION JOINT SEAL THE CONTRACTOR SHALL REPLACE THE EXPANSION JOINT SEAL TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE STATE.

REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

ITEM 511 - CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (DECK EDGE)

THIS ITEM SHALL BE USED AT LOCATIONS INDICATED IN THE PLAN.

LIMESTONE FOR THE COARSE AGGREGATE SHALL BE USED.

ALL EXISTING SURFACES, INCLUDING ALL EXPOSED REINFORCING STEEL, TO WHICH THE CONCRETE IS TO BOND SHALL BE CLEANED BY ABRASIVE BLASTING. THESE SURFACES SHALL BE MADE FREE OF SPALLS, LAITANCE, AND OTHER CONTAMINANTS DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND.

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

STRUCTURE HUR-250-1951

NO WORK SHALL BE PERFORMED ON THIS STRUCTURE OR ITS APPROACH SLABS.

STRUCTURE HUR-250-1960

THE CONTRACTOR SHALL MEASURE THE VERTICAL CLEARANCE BETWEEN THE EXISTING ROADWAY AND THE RAILROAD OVERPASS AND DOCUMENT THE MEASURED HEIGHT AND LOCATION OF THE MEASUREMENTS. THE CONTRACTOR SHALL ENSURE TO MEET THE MINIMUM HEIGHT BETWEEN THE ROADWAY AND THE RAILROAD OVERPASS, FROM THE MEASUREMENTS TAKEN PRIOR TO PERFORMING WORK, THROUGHOUT THE RAILROAD OVERPASS AREA.

THE CONTRACTOR SHALL TAKE THE MEASUREMENTS AT THE CROWN POINTS, EDGE OF PAVEMENT AND EDGE OF SHOULDER LOCATIONS AT EVERY EDGE AND MIDPOINT OF EACH STRUCTURE.

THE CONTRACTOR SHALL GIVE THE PROJECT ENGINEER DOCUMENTATION OF THE MEASUREMENT PRIOR TO AND AFTER CONSTRUCTION.

THE CONTRACTOR SHALL NOTE THAT THE DEPTH OF ASPHALT IN THIS AREA IS THINNER THAN THE REST OF THE ROUTE. THE CONTRACTOR SHALL HAVE A VARIABLE THICKNESS INTERMEDIATE COURSE TO ENSURE THE CORRECT VERTICAL CLEARANCE AT THE STRUCTURE.

THE CONTRACTOR SHALL ENSURE TO NOT ALLOW A GRADE BREAK GREATER THAN 0.30% THROUGHOUT THE PROJECT.

CALCULATED SJD
CHECKED DCM

STRUCTURE GENERAL NOTES

ASD-250-0.00

38
56

DESIGN FILE: i:\projects\23587\Struct\GN00.dgn
WORKSTATION: sdeer DATE: 2/25/2005

ITEM SPECIAL - POLYMER-MODIFIED ASPHALT EXPANSION JOINT SYSTEM

THIS ITEM WILL BE USED TO SEAL THE EXPANSION/ CONTRACTION JOINTS AS PER THESE DETAILS AND THE MANUFACTURER'S REQUIREMENTS USING A POLYMER-MODIFIED ASPHALT SYSTEM. THE PRIME CONTRACTOR WILL OBTAIN THE SERVICES OF ONE OF THE FOLLOWING APPROVED APPLICATORS WHO WILL FURNISH AND INSTALL THE NEW BRIDGE EXPANSION JOINT SYSTEM AFTER ALL PAVING ON THE AFFECTED BRIDGE(S) HAS BEEN COMPLETED.

D.S. BROWN COMPANY
300 E. CHERRY STREET
N. BALTIMORE, OH 45872-0158
TEL: (419) 257-3561

LINEAR DYNAMICS, INC.
79 MONTGOMERY ST.
MONTGOMERY, PA 17752
TEL: (570) 547-1621

SILICONE SPECIALTIES INC. (S.S.I.)
P.O. BOX 50009
TULSA, OK 74150
TEL: (918) 587-5567 OR
(800) 888-8909

WATSON BOWMAN ACME
95 PINEVIEW DR.
AMHERST, NY 14228
TEL: (716) 691-7566 OR
(800) 253-9226

MATERIALS:

BRIDGING PLATE:

MILD STEEL 1/8" OR 1/4" THICK PLATE, 8" WIDE OR 18 GAUGE ALUMINUM, 8" WIDE.

BINDER:

TYPE:	POLYMER MODIFIED ASPHALT
SOFTENING POINT:	180 DEGREES F. MIN.
FLOW:	3 mm. MAX. AT 140 DEGREES F.
PENETRATION:	9 mm. MAX. AT 77 DEGREES F. 1 mm. MIN AT 0 DEGREES F. ASTM D 3407
DUCTILITY:	40 cm. MIN. ASTM D 113
RESILIENCE:	60% MIN. AT 77 DEGREES F.
TENSILE ADHESION:	700% MIN.
SPECIFIC GRAVITY:	1.10 * 0.05
POURING TEMP:	350 - 390 DEGREES F.

AGGREGATE:

TYPE:	CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT
GRADATION:	THE GRADATION OF THE AGGREGATE VARIES BY MANUFACTURER AND WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM BEING USED ON THIS PROJECT.

BACKER ROD:

THE BACKER SHALL BE A CLOSED CELL FOAM EXPANSION JOINT FILLER CAPABLE OF WITHSTANDING THE PLACEMENT TEMPERATURE OF THE POLYMER MODIFIED ASPHALT.

INSTALLATION PROCEDURES:

SAWING AND SURFACE PREPARATION:
AFTER ALL PAVING OPERATIONS ARE COMPLETE, THE OVERLAY IS TO BE TRANSVERSELY SAW CUT FULL DEPTH NO LESS THAN TWO INCHES DEEP (20" CENTERED OVER JOINT OPENING, UNLESS OTHERWISE NOTED). REMOVE ALL MATERIAL, INCLUDING WATER-PROOFING MATERIAL, BETWEEN SAW CUTS. THOROUGHLY CLEAN AND DRY EXPOSED CONCRETE, STEEL, AND CUT SURFACES USING COMPRESSED AIR AND A HOT COMPRESSED AIR (HCA) LANCE. THE LANCE MUST PRODUCE A FLAME RETARDED AIR STREAM TEMPERATURE OF 3000 DEGREES F. AT A VELOCITY OF 3,000 FEET PER

SECOND WITH 15 PSIG CHAMBER PRESSURE. IF THERE IS AN INTERRUPTION DUE TO WEATHER OR OTHER CAUSES, THE OPERATION WILL BE REPEATED WITH THE HCA LANCE IMMEDIATELY BEFORE THE BINDER COAT OPERATION ALSO, 6 INCHES OF THE ROAD SURFACE ON EITHER SIDE OF THE JOINT WILL BE DRIED SO THAT A SUITABLE SURFACE FOR BITUMEN ADHESION IS OBTAINED.

SEALING OF EXPANSION JOINT: (PRE-STRESSED BOX OR CONCRETE SLAB)

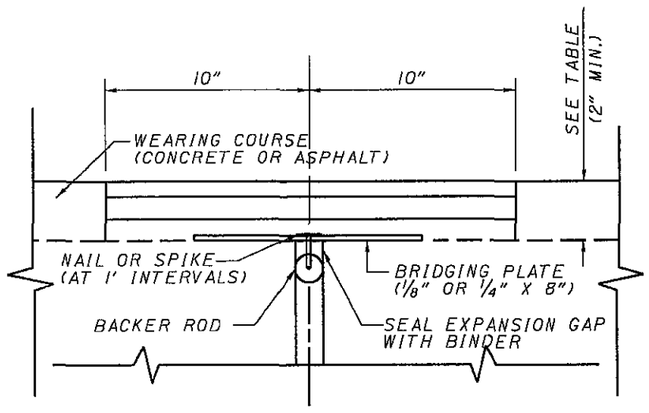
THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CENTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. GAPS OF 1/8" OR MORE WILL FIRST BE FILLED WITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN 1/8" AND 1-1/8" BELOW THE TOP OF THE EXISTING GAP. THE GAP WILL THEN BE FILLED WITH BINDER.

BOND BREAKER:

SPREAD BINDER OVER SURFACE AREA WHERE THE METAL BRIDGING PLATE WILL BE PLACED. CENTER THE BRIDGING PLATE OVER THE EXISTING JOINT AND BED INTO THE HOT BINDER. BUTT JOINT THE BRIDGING PLATES TO ACCOMODATE THE ENTIRE JOINT LENGTH. SPIKE HOLES WILL BE DRILLED AT 1 FOOT INTERVALS ALONG THE LONGITUDINAL CENTERLINE OF THE PLATES. SECURE BRIDGING PLATE WITH NAILS OR SPIKES. SEAL BUTT JOINTS WITH HOT BINDER AND ALLOW BINDER TO SETUP BEFORE NEXT OPERATION. WHEN ALUMINUM BRIDGING PLATES ARE USED, ONLY THE BINDER IS REQUIRED TO SECURE THE INDIVIDUAL PLATES.

BINDER COAT:

SEAL ALL PREPARED, EXPOSED SURFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND SPREAD TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE A MINIMUM OF 1/32" THICK ON THE BOTTOM OF THE JOINT CAVITY, WITH POOLS OF GREATER THICKNESS WHERE SURFACE IRREGULARITIES EXIST. THE BINDER APPLICATION TEMPERATURE WILL BE BETWEEN 350 AND 390 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE HEATED ABOVE 410 DEGREES F. NOR ALLOWED TO EXCEED 390 DEGREES F. FOR MORE THAN 1 HOUR. A DOUBLE JACKETED OIL MELTER WILL BE USED TO HEAT THE BINDER. THE MELTER WILL BE EQUIPPED WITH A CONTINUOUS AGITATION SYSTEM, TEMPERATURE CONTROLS, AND A CALIBRATED THERMOMETER. ALSO A SYSTEM FOR ACCURATELY MEASURING THE WEIGHTS OF THE BINDER AND THE AGGREGATE WILL BE REQUIRED.



TYPICAL PRESTRESSED BOX BEAM
OR
CONCRETE SLAB JOINT

STRUCTURE	DEPTH
ASD-250-0009	3.1"±1"
ASD-250-0106	3.1"±1"
ASD-250-0724	2.0"±1"
ASD-250-0756	2.0"±1"

BUILD-UP OF JOINT LAYERS:

AGGREGATE PREPARATION:

HEAT THE AGGREGATE TO A TEMPERATURE OF 275 TO 325 DEGREES F., WITH A SUITABLE ROTATING DRUM WITH ATTACHED HEAT SOURCE OR A HOT COMPRESSED AIR LANCE, TO REMOVE DUST AND MOISTURE.

AGGREGATE PROPORTION AND LAYER THICKNESS:

MIX THE AGGREGATE WITH THE BINDER SUCH THAT THE MINIMUM AGGREGATE CONTENT BY WEIGHT WILL BE 68%. THE HEATED AGGREGATE AND BINDER WILL BE COMBINED IN LAYERS, UNLESS PATENTED INSTALLATION REQUIRES DIFFERENTLY, NOT LESS THAN 3/4 OF AN INCH NOR EXCEEDING 2-1/2 INCHES. THE THICKNESS OF EACH LAYER CAN BE VARIED WITHIN THESE LIMITS, TO ACHIEVE THE REQUIRED JOINT THICKNESS (MIN. 2 INCHES). THE OBJECTIVE IS TO COAT EACH STONE AND FILL THE VOIDS WHILE AVOIDING AN EXCESS OF BINDER. THIS WILL ACHIEVE THE MAXIMUM CONTENT OF STONE CONSISTENT WITH ALL STONES BEING COATED WITH BINDER. RAKE THE MIXTURE TO MIX AND LEVEL.

THE TOP LAYER THICKNESS WILL VARY BETWEEN 1/2 INCH AND ONE (1) INCH. IN PREPARING THE TOP LAYER, THE RATIO OF AGGREGATE TO BINDER WILL BE APPROXIMATELY 6:1 BY WEIGHT. OVERFILL THE TOP LAYER AND COMPACT TO THE LEVEL OF THE ADJACENT SURFACES USING A ROLLER OR VIBRATORY PLATE COMPACTOR. IMMEDIATELY AFTER COMPLETION OF THE COMPACTION, POUR SUFFICIENT BINDER OVER THE JOINT TO FILL THE SURFACE VOIDS AND COAT THE SURFACE STONE. DUST THE FINISHED JOINT WITH A FINE, DRY AGGREGATE TO PREVENT TACKINESS.

MAINTENANCE OF TRAFFIC:

IF NECESSARY TO FACILITATE TRAFFIC MAINTENANCE, THE JOINT WILL BE INSTALLED IN TWO (2) HALF-WIDTH PHASES. DURING PHASE 1 APPROXIMATELY HALF OF THE TOTAL JOINT WILL BE INSTALLED. DURING PHASE 2, A MINIMUM OF TWO (2) INCHES OF THE PHASE 1 JOINT WILL BE REMOVED, AT OR NEAR THE CENTERLINE, WITH THE REMAINDER OF THE JOINT INSTALLED. IN ALL CASES, OPERATIONS WILL BE SCHEDULED SO THAT ALL LANES CAN BE OPEN TO TRAFFIC DURING ALL NON-WORKING HOURS.

TESTING:

CERTIFICATION WILL BE SUPPLIED FOR EACH PROJECT SHOWING BINDER COMPLIANCE WITH REQUIRED PROPERTIES. A ONE QUART SAMPLE OF BINDER WILL BE RETRIEVED FROM EACH BRIDGE FOR FURTHER TESTING BY THE O.D.O.T TESTING LABORATORY.

PAYMENT:

PAYMENT FOR ALL THE ABOVE WILL BE AT THE UNIT PRICE BID PER LINEAR FOOT OF SEALED JOINT IN PLACE FOR ITEM SPECIAL 516 31300, POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM (5 INCHES THICK). THIS WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

DESIGN AGENCY ODOT DISTRICT THREE

POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ASD-250-0.00

39/56

DESIGN FILE: i:\projects\23587\Struct\SD100JNT.dgn
WORKSTATION: sdeer DATE: 2/25/2005

STRUCTURE ITEMS - ASD-250-0009 (SFN 0304549)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
202	11200	PORTIONS OF STRUCTURE REMOVED		LUMP
202	23501	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	17
512	33010	TYPE 3 WATERPROOFING	SQ YD	17
515	30000	HIGH EARLY STRENGTH KEYWAY GROUT	FT	38
SPECIAL	51631300	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	85
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	72

STRUCTURE ITEMS - ASD-250-0106 (SFN 0304573)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
202	23501	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	23
512	33010	TYPE 3 WATERPROOFING	SQ YD	23
SPECIAL	51631300	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	80
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	83

STRUCTURE ITEMS - ASD-250-0742 (SFN 0304735)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
202	23501	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	24
512	33010	TYPE 3 WATERPROOFING	SQ YD	24
SPECIAL	51631300	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	80
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	67

STRUCTURE ITEMS - ASD-250-0756 (SFN 0304751)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
SPECIAL	51631300	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	92
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	73

NOTES

1) SEE STRUCTURE SHEETS FOR PROPOSED PAVEMENT WORK WITHIN THE STRUCTURE LIMITS.

DESIGN FILE: i:\projects\23587\Struct\SS100.dgn
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY ODOT DISTRICT THREE
DESIGNED SJD DRAWN SJD REVISED SJD CHECKED DJV
REVISED DCM DATE 02/25/05 STRUCTURE FILE NUMBER 0304564
STRUCTURE SUMMARY
ASD-250-0.00
1 / 2
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STRUCTURE ITEMS - ASD-250-1087 (SFN 0304778)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
846	73000	TREATING CONCRETE BRIDGE DECKS WITH HMWM RESIN	SQ YD	212
848	10001	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRO-DEMOLITION, AS PER PLAN (2.5" THICK)	SQ YD	376
848	20000	SURFACE PREPARATION USING HYDRODEMOLITION	SQ YD	376
848	30001	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	CU YD	14
848	50000	HAND CHIPPING	SQ YD	11
848	50100	TEST SLAB		LUMP
848	50320	EXISTING CONCRETE OVERLAY REMOVED (1.25" THICK)	SQ YD	376
848	50340	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	SQ YD	23
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	83

STRUCTURE ITEMS - ASD-250-1162 (SFN 0304808)				
ITEM	ITEM EXT.	DESCRIPTION	UNIT	TOTAL
202	11300	PORTIONS OF STRUCTURE REMOVED	CU YD	17
202	38500	BRIDGE RAILING REMOVED	FT	100
509	10000	EPOXY COATED REINFORCING STEEL	POUND	2583
510	10000	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	EACH	72
511	34401	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	CU YD	13
511	46000	CLASS C CONCRETE	CU YD	5
517	70000	RAILING (TWIN STEEL TUBE)	FT	94.83
848	10001	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRO-DEMOLITION, AS PER PLAN (2.5" THICK)	SQ YD	157
848	20000	SURFACE PREPARATION USING HYDRODEMOLITION	SQ YD	128
848	30001	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	CU YD	4
848	50000	HAND CHIPPING	SQ YD	4
848	50100	TEST SLAB		LUMP
848	50320	EXISTING CONCRETE OVERLAY REMOVED (1.25" THICK)	SQ YD	128
848	50340	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	SQ YD	6
864	10100	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	43

NOTES

1) SEE STRUCTURE SHEETS FOR PROPOSED PAVEMENT WORK WITHIN THE STRUCTURE LIMITS.

DESIGN FILE: I:\projects\23587\Struct\SS100.dgn
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY ODOT DISTRICT THREE
DESIGNED SJD DRAWN SJD REVIEWED DCM DATE 02/25/05
CHECKED DJV REVISED SJD STRUCTURE FILE NUMBER 0304564

STRUCTURE SUMMARY

ASD-250-0.00

2 / 2

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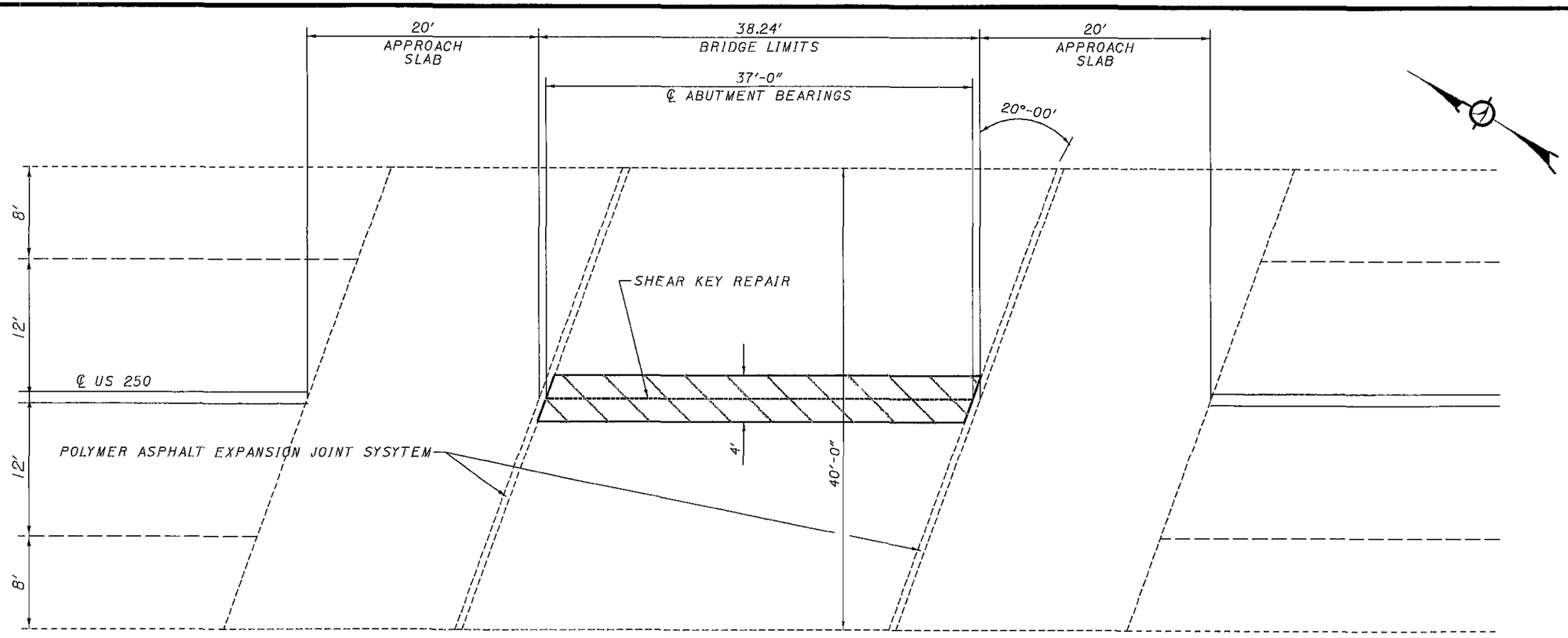


WEARING COURSE REMOVED, AS PER PLAN

PAVEMENT ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ YD	347.7
407	TACK COAT	GALLON	1.4
* 407	TACK COAT	GALLON	27.8
* 407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	10 4
442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	1.5
* 442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	16.9
* 442	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	CU YD	12.1

* - QUANTITIES SHOWN INCLUDED WITHIN THE QUANTITIES ON THE PAVEMENT DATA SHEET. ALL OTHER QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

STRUCTURE ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
202	PORTIONS OF STRUCTURE REMOVED		LUMP
202	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	17.0
512	TYPE 3 WATERPROOFING	SQ YD	17.0
515	HIGH EARLY STRENGTH KEYWAY GROUT	FT	38.2
SPECIAL	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	85.2
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	71.5

NOTES

1) WHERE ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) MATERIAL MEETS EXISTING ASPHALT OR CONCRETE PAVEMENT, PG GRADE LIQUID ASPHALT SHALL BE USED TO COAT THE VERTICAL FACE.

2) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT

3) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

4) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

5) QUANTITIES INCLUDE BRIDGE LIMITS AS WELL AS APPROACH SLABS.

6) APPROACH AND BRIDGE RAIL NOT SHOWN.

STRUCTURE DATA

TYPE: SINGLE SPAN PRESTRESSED BOX BEAMS WITH REINFORCED CONCRETE SUBSTRUCTURE
SPAN: 37'-0" C/C BEARINGS
ROADWAY: 40'-0" F/F GUARDRAIL & O/O DECK
LOADING: HS-20-44 & ALTERNATE MILITARY LOADING
SKEW: 20°-00' LEFT FORWARD
WEARING SURFACE: 2.5" MIN. ASPHALT CONCRETE
APPROACH SLABS: 20' LONG
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1984

DESIGN AGENCY: ODOT DISTRICT THREE
DESIGNED: SJD | DRAWN: SJD | REVIEWED: DCM | DATE: 02/25/05
CHECKED: DJV | REVISED: SJD | STRUCTURE FILE NUMBER: 0304549

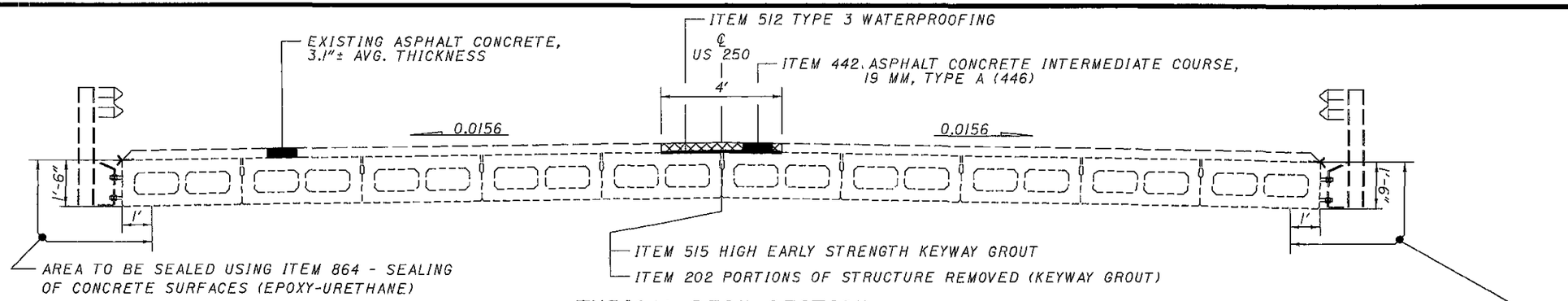
SITE PLAN
ASD-250-0009
OVER INTERMITTENT WATERWAY

ASD-250-0.00

1 / 3

42 / 56

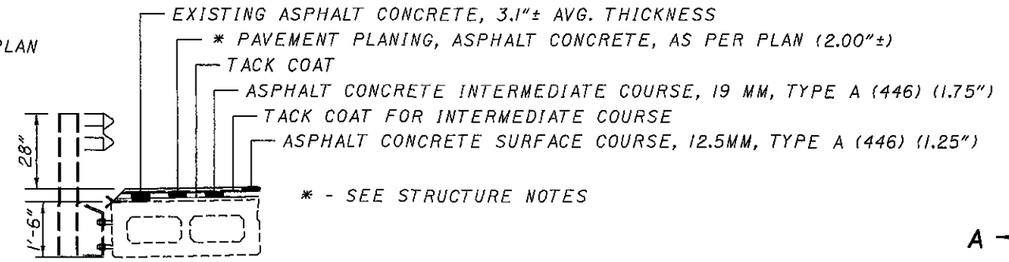
DESIGN FILE: I:\projects\23587\Struct\ASD-250-0009 SFN 0304549\SP100.dgn
WORKSTATION: sdeer DATE: 2/25/2005



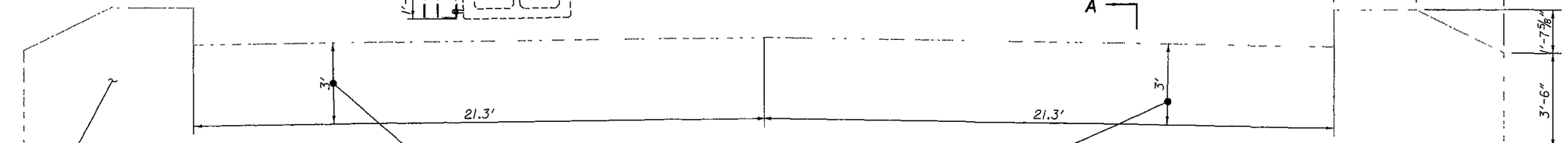
TYPICAL DECK SECTION

AREA TO BE SEALED USING ITEM 864 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

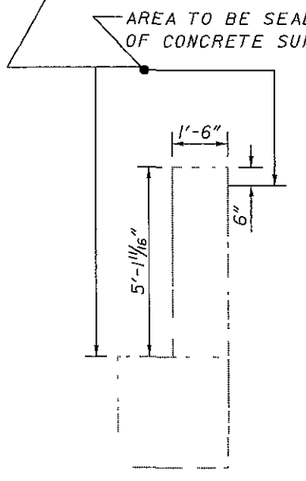
WEARING COURSE REMOVED, AS PER PLAN



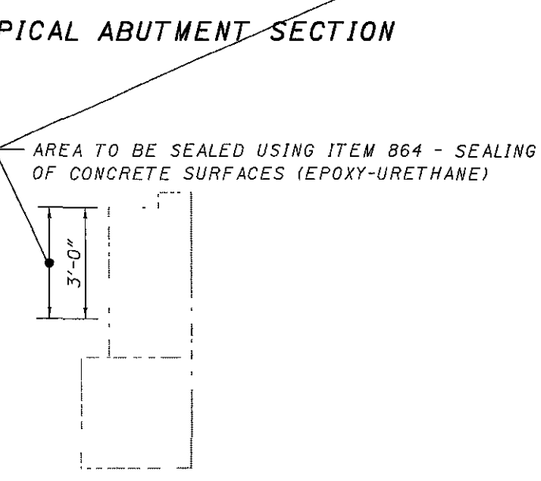
* - SEE STRUCTURE NOTES



TYPICAL ABUTMENT SECTION



WING WALL
B-B



ABUTMENT
A-A

NOTES

1) WEARING COURSE REMOVED, AS PER PLAN SHALL CONSIST OF THE CONTRACTOR REMOVING ALL MATERIAL ON THE PRESTRESSED CONCRETE BRIDGE BEAM DOWN TO BARE CONCRETE. THE CONTRACTOR SHALL USE CAUTION IN THE LAST 0.5" OF MATERIAL TO BE REMOVED. IF ANY BEAMS BECOME DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE BEAMS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE STATE.

2) ITEM 512 TYPE 3 WATERPROOFING MAY ONLY BE INSTALLED 24 HOURS AFTER THE HIGH EARLY STRENGTH KEYWAY GROUT IS INSTALLED.

3) PRIOR TO INSTALLING THE GROUT, THE KEYWAY SURFACES SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST AND OTHER FOREIGN MATTER BY SANDBLASTING AND HIGH PRESSURE WASHING. THE KEWAY SURFACES SHALL BE TESTED FOR CARBONATION. ANY CARBONATION FOUND SHALL BE REMOVED BY RE-BLASTING AND RE-WASHING. DRYNESS OF THE KEYWAY SURFACE BEFORE GROUTING SHALL BE AS PER THE MANUFACTURERS RECOMMENDATION.

DESIGN AGENCY: ODOT DISTRICT THREE
DATE: 02/25/05
REVISED: DCM
STRUCTURE FILE NUMBER: 0304549
DRAWN: SJD
REVISED: SJD
DESIGNED: SJD
CHECKED: DJV

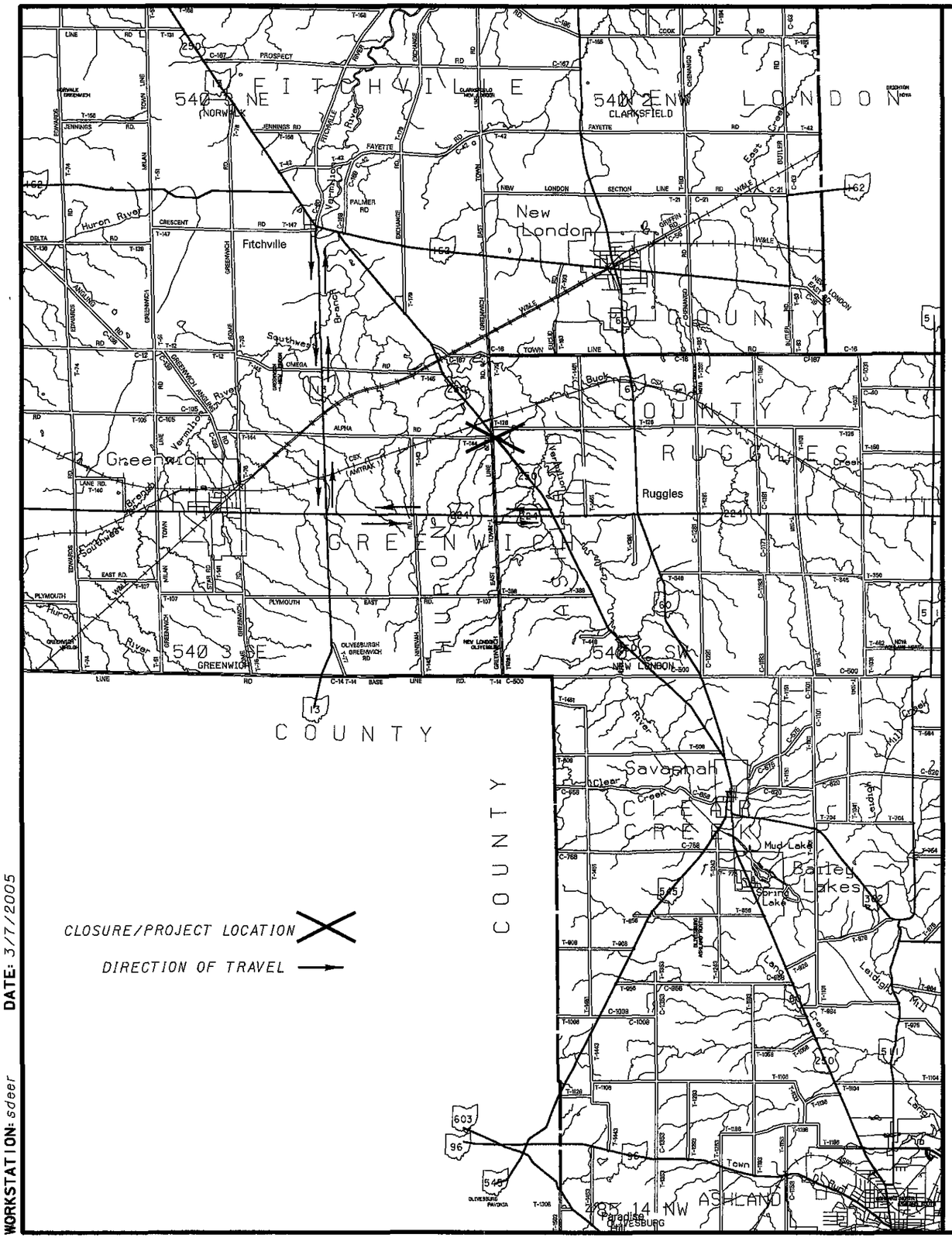
STRUCTURE DETAILS
ASD-250-0009
OVER INTERMITTENT WATERWAY

ASD-250-0.00

2 / 3

43 / 56

DESIGN FILE: I:\projects\23587\Struct\ASD-250-0009 SFN 0304549\SD100SEL.dgn
WORKSTATION: sdeer DATE: 2/25/2005



DESIGN FILE: I:\projects\23587\Struct\ASD-250-0009 SFN 0304549\MDI00.dgn
WORKSTATION: sdeer DATE: 3/7/2005

614 - MAINTAINING TRAFFIC - ASD-250-0009

DETOUR LIMITATION AND INTERM COMPLETION DATE

TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 4 CONSECUTIVE CALENDAR DAYS. THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON THIS SHEET.

THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT THREE ROADWAY SERVICES MANAGER, IN WRITING, A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE DATE THE DETOUR WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE WORK LIMITS OF THE PROJECT, AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

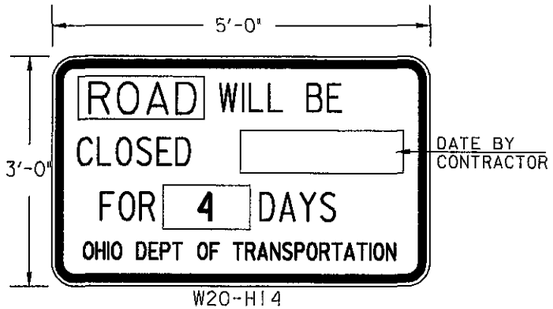
THE 4 CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 4 DAYS THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESED LIQUIDATED DAMAGES, AS PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES AS PER 614.02 (a).

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 CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.



W20-H14

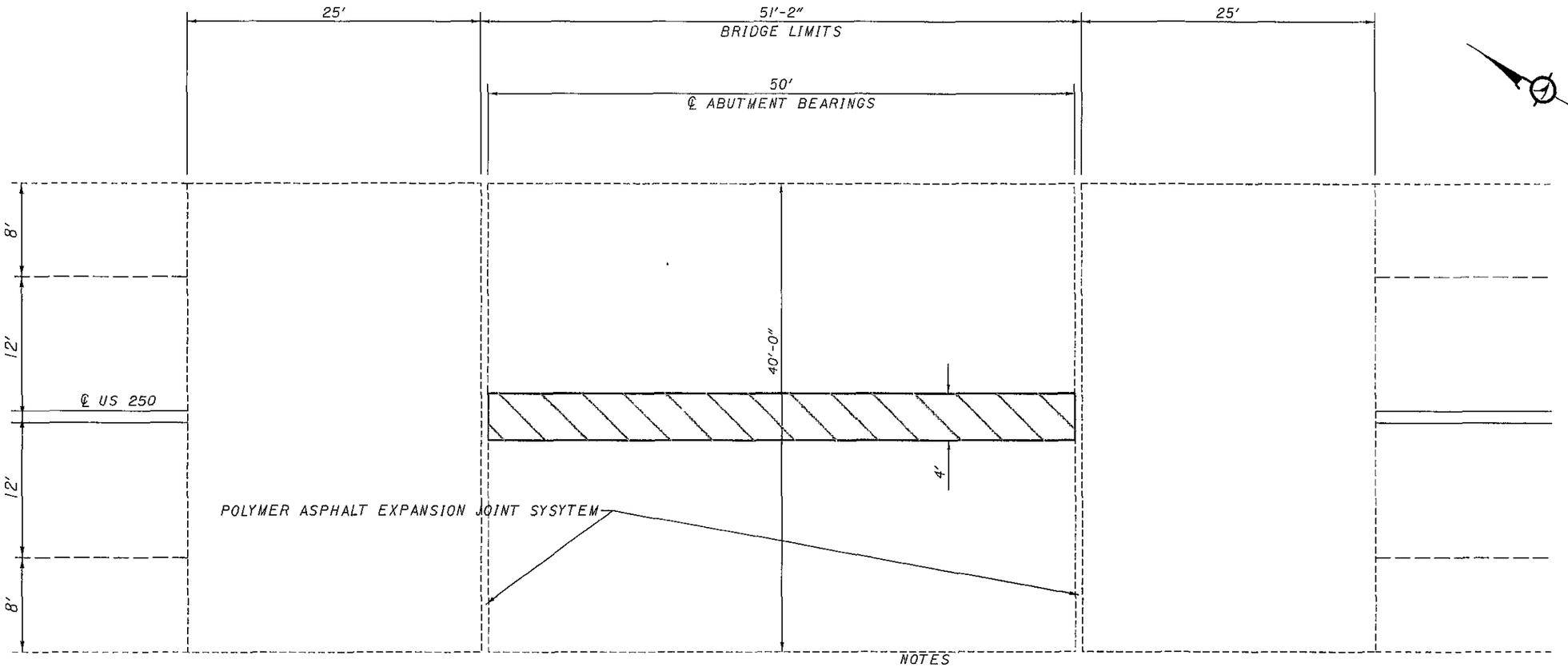
ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCHES ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES, GATES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

CALCULATED SJD
CHECKED LS

MAINTENANCE OF TRAFFIC
ASD-250-0009

ASD-250-0.00



▨ WEARING COURSE REMOVED, AS PER PLAN

PAVEMENT ITEMS

ITEM	DESCRIPTION	UNIT	TOTAL
254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ YD	227.4
407	TACK COAT	GALLON	0.7
* 407	TACK COAT	GALLON	18.2
* 407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	6.8
442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	2.0
* 442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	11.1
* 442	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	CU YD	7.9

* - QUANTITIES SHOWN INCLUDED WITHIN THE QUANTITIES ON THE PAVEMENT DATA SHEET. ALL OTHER QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

STRUCTURE ITEMS

ITEM	DESCRIPTION	UNIT	TOTAL
202	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	22.7
512	TYPE 3 WATERPROOFING	SQ YD	22.7
SPECIAL	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	80
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	83.1

NOTES

1) WHERE ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), MATERIAL MEETS EXISTING ASPHALT OR CONCRETE PAVEMENT, PG GRADE LIQUID ASPHALT SHALL BE USED TO COAT THE VERTICAL FACE.

2) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

3) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

4) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

5) QUANTITIES INCLUDE BRIDGE LIMITS AS WELL AS APPROACH SLABS.

6) APPROACH AND BRIDGE RAIL NOT SHOWN.

STRUCTURE DATA

TYPE: PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAMS WITH REINFORCED CONCRETE SUBSTRUCTURE
SPAN: 50'-0" C/C BEARINGS
ROADWAY: 40'-0" F/F GUARDRAIL & O/O DECK
LOADING: HS-20-44 & ALTERNATE MILITARY LOADING
SKEW: NONE
WEARING SURFACE: 2.5" MIN. ASPHALT CONCRETE
APPROACH SLABS: 25' LONG
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1985

DESIGN AGENCY: ODOT DISTRICT THREE

DESIGNED	DRAWN	REVISED	DATE
SJD	SJD	DCM	02/25/05
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DJV	SJD	0304573	

SITE PLAN
ASD-250-0106
OVER BRANCH OF VERMILION RIVER

ASD-250-0.00

1 / 2

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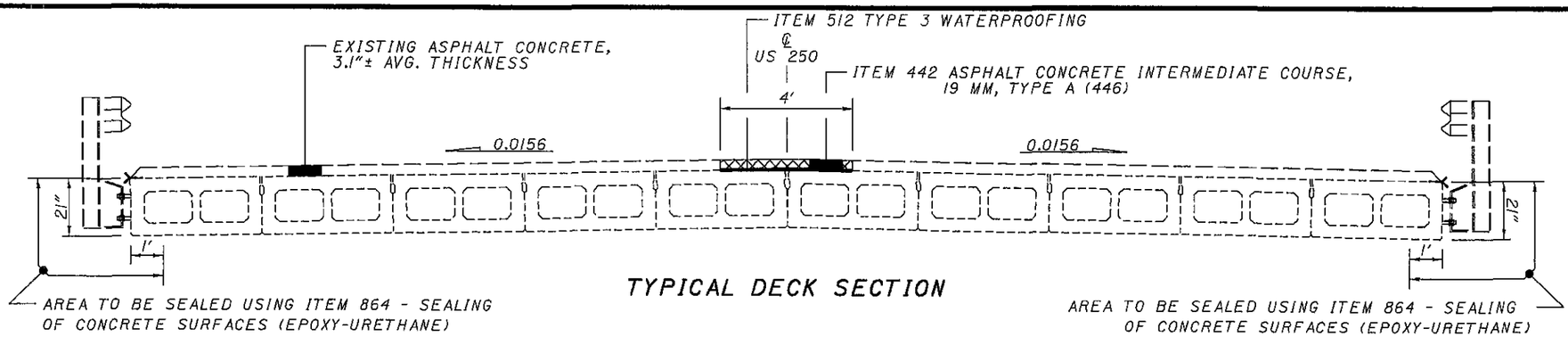
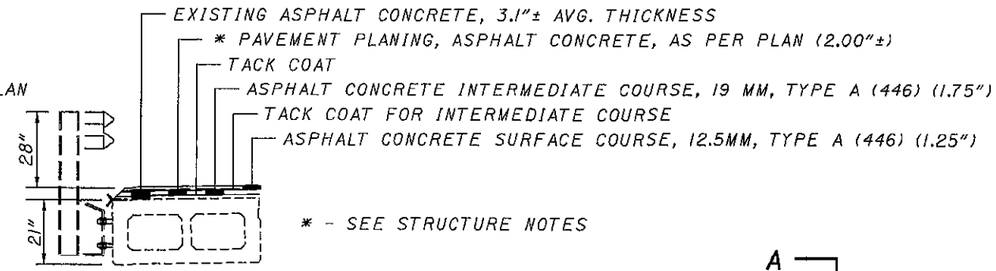
DESIGN FILE: I:\projects\23587\Struct\ASD-250-0106 SFN 0304573\SP100.dgn
WORKSTATION: sdeer DATE: 2/25/2005

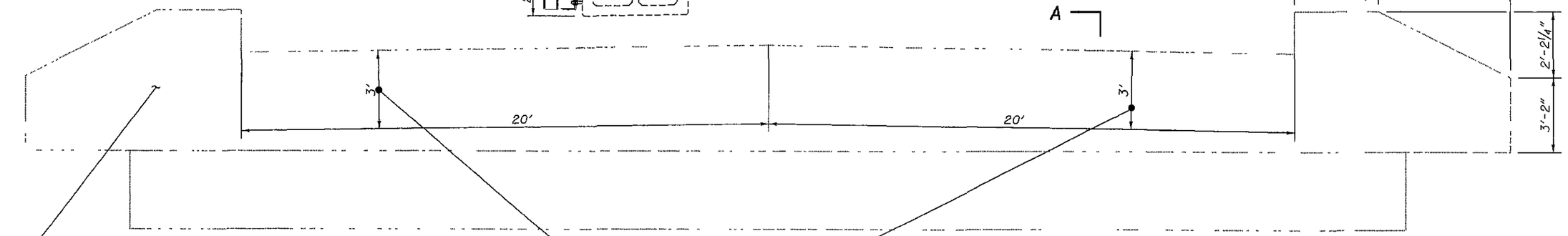


TYPICAL DECK SECTION

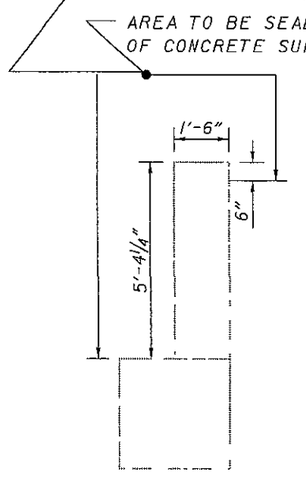
WEARING COURSE REMOVED, AS PER PLAN



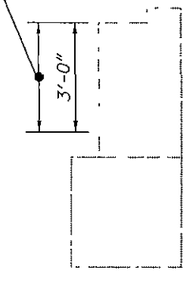
* - SEE STRUCTURE NOTES



TYPICAL ABUTMENT SECTION



WING WALL
B-B



ABUTMENT
A-A

NOTES

1) WEARING COURSE REMOVED, AS PER PLAN SHALL CONSIST OF THE CONTRACTOR REMOVING ALL MATERIAL ON THE PRESTRESSED CONCRETE BRIDGE BEAM DOWN TO BARE CONCRETE. THE CONTRACTOR SHALL USE CAUTION IN THE LAST 0.5" OF MATERIAL TO BE REMOVED. IF ANY BEAMS BECOME DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE BEAMS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE STATE.

DESIGN AGENCY ODOT DISTRICT THREE
DESIGNED SJD DRAWN SJD REVIEWED DCM DATE 02/25/05
CHECKED DJV REVISED SJD STRUCTURE FILE NUMBER 0304573

STRUCTURE DETAILS
ASD-250-0106
OVER BRANCH OF VERMILION RIVER

ASD-250-0.00

2 / 2

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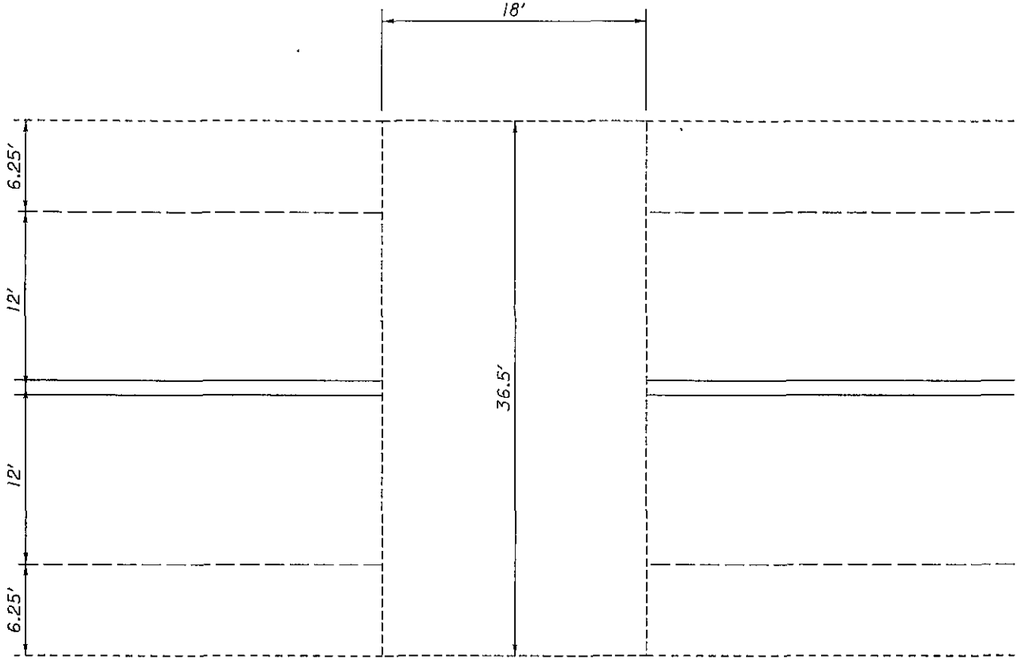
DESIGN FILE: I:\projects\23587\Struct\ASD-250-0106 SFN 0304573\SD100SEL.dgn
WORKSTATION: sdeer DATE: 2/25/2005



PAVEMENT ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ YD	73.0
* 407	TACK COAT	GALLON	5.8
* 407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	2.2
* 442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	3.5
* 442	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	CU YD	2.5

* - QUANTITIES SHOWN INCLUDED WITHIN THE QUANTITIES ON THE PAVEMENT DATA SHEET. ALL OTHER QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

NOTES

1) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

2) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB

3) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

4) APPROACH AND BRIDGE RAIL NOT SHOWN.

DESIGN AGENCY: ODOT
DISTRICT THREE

DESIGNED	DRAWN	REVISED	DATE
SJD	SJD	DCM	02/25/05
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DJV	SJD	0304564	

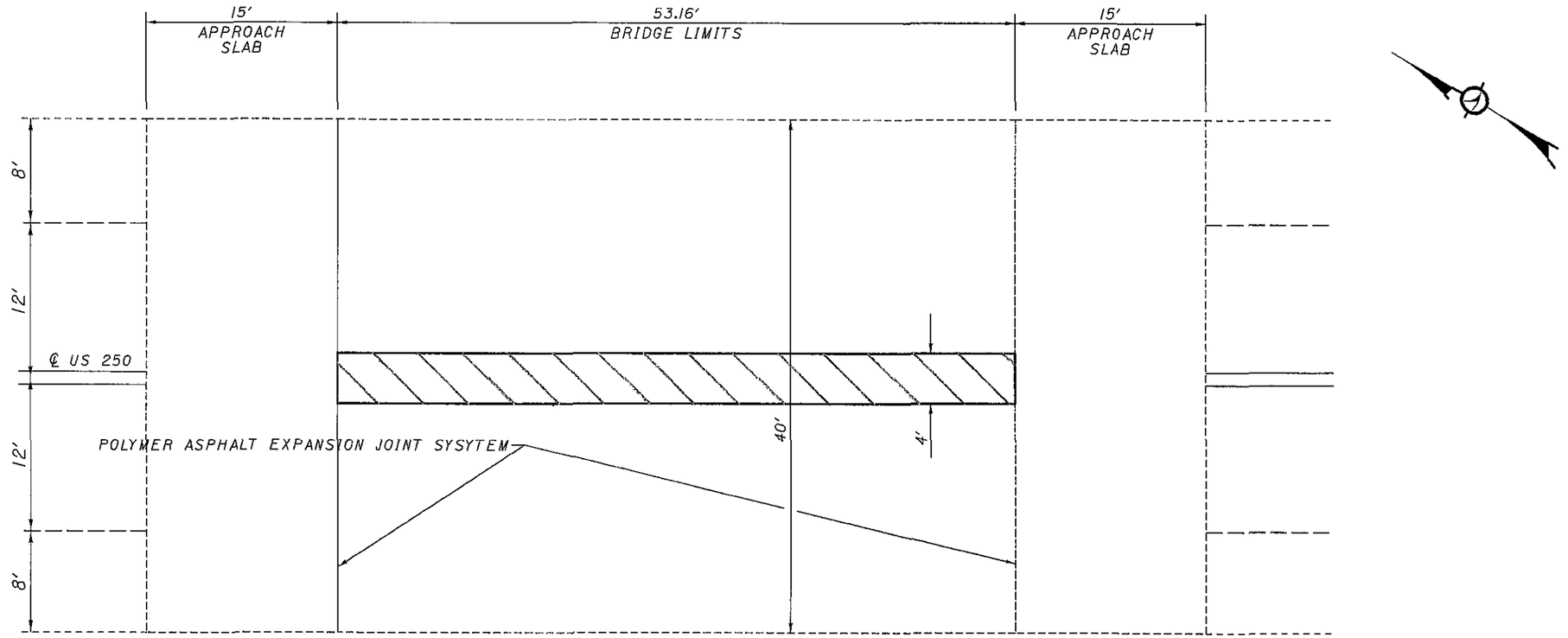
SITE PLAN
ASD-250-0354
OVER MYERS BRANCH OF VERMILION RIVER

ASD-250-0.00

1 / 1

47
56

DESIGN FILE: i:\projects\23587\Struct\ASD-250-0354 SFN 0304564\SP100.dgn
WORKSTATION: sdeer DATE: 2/25/2005



WEARING COURSE REMOVED, AS PER PLAN

PAVEMENT ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ YD	369.6
407	TACK COAT	GALLON	1.9
* 407	TACK COAT	GALLON	29.6
* 407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	11.1
442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	1.3
* 442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	18.0
* 442	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	CU YD	12.8

* - QUANTITIES SHOWN INCLUDED WITHIN THE QUANTITIES ON THE PAVEMENT DATA SHEET. ALL OTHER QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

STRUCTURE ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
202	WEARING COURSE REMOVED, AS PER PLAN	SQ YD	23.6
512	TYPE 3 WATERPROOFING	SQ YD	23 6
SPECIAL	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	80.0
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	66.9

NOTES

1) WHERE ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), MATERIAL MEETS EXISTING ASPHALT OR CONCRETE PAVEMENT, PG GRADE LIQUID ASPHALT SHALL BE USED TO COAT THE VERTICAL FACE.

2) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

3) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

4) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

5) QUANTITIES INCLUDE BRIDGE LIMITS AS WELL AS APPROACH SLABS.

6) APPROACH AND BRIDGE DECK NOT SHOWN.

STRUCTURE DATA

TYPE: SINGLE SPAN PRECAST BOX BEAMS ON CAPPED PILE ABUTMENTS
SPAN: 52'-0" C/C BEARINGS
ROADWAY: 40'-0" F/F GUARDRAIL & O/O DECK
LOADING: HS-20-44 & ALTERNATE MILITARY LOADING
SKEW: NONE
WEARING SURFACE: 2.5" MIN. ASPHALT CONCRETE
APPROACH SLABS: 15' LONG
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1990

DESIGN AGENCY: ODOT DISTRICT THREE
DESIGNED: SJD
DRAWN: SJD
CHECKED: DJV
REVISED: SJD
REVIEWED: DCM
DATE: 02/25/05
STRUCTURE FILE NUMBER: 0304735

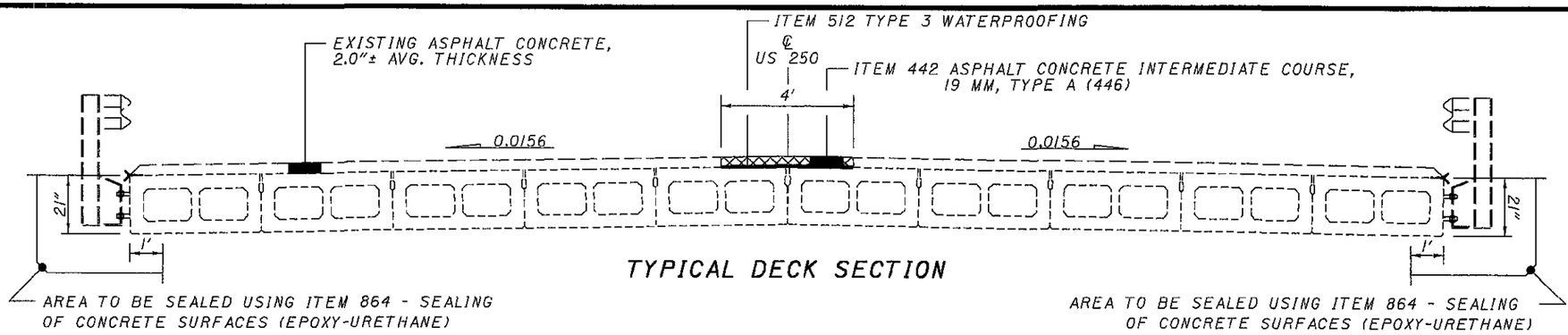
SITE PLAN
ASD-250-0742
SFN 0304735

ASD-250-0.00

1 / 2

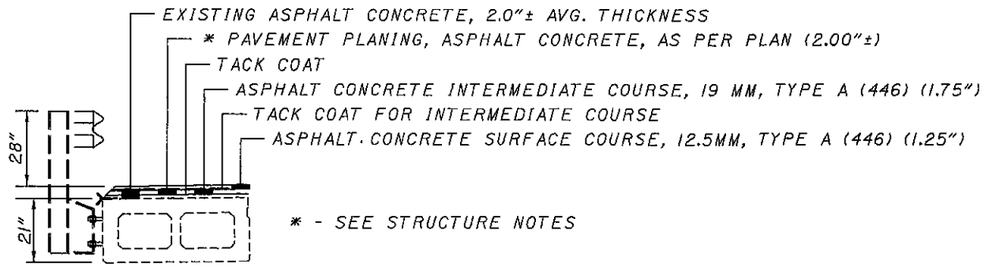
48
56

DESIGN FILE: I:\projects\23587\Struct\ASD-250-0742 SFN 0304735\SP100.dgn
WORKSTATION sdeer DATE: 2/25/2005

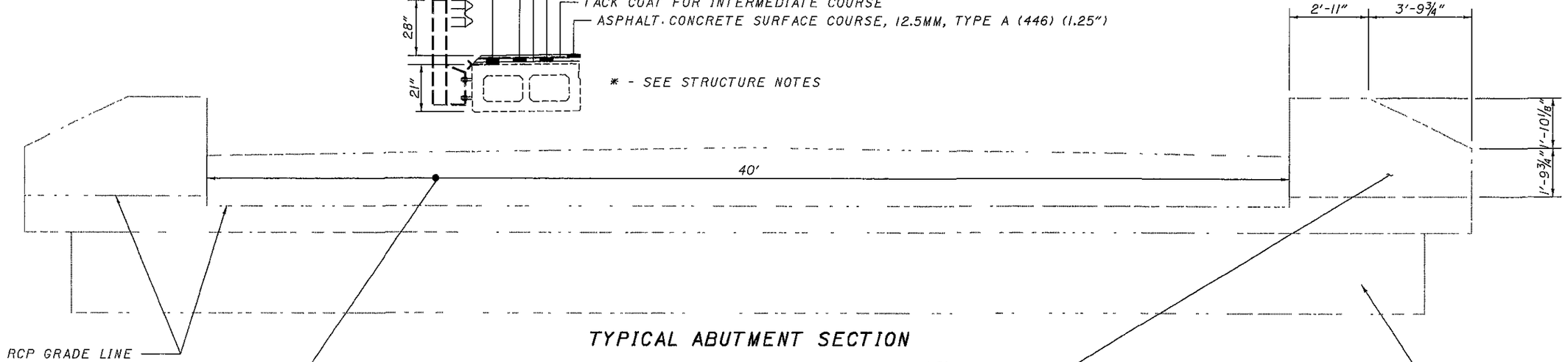


TYPICAL DECK SECTION

PAVEMENT REMOVED, AS PER PLAN



* - SEE STRUCTURE NOTES



TYPICAL ABUTMENT SECTION

ABUTMENT

WINGWALL

NOTES

1) PAVEMENT REMOVED, AS PER PLAN SHALL CONSIST OF THE CONTRACTOR REMOVING ALL MATERIAL ON THE PRESTRESSED CONCRETE BRIDGE BEAM DOWN TO BARE CONCRETE. THE CONTRACTOR SHALL USE CAUTION IN THE LAST 0.5" OF MATERIAL TO BE REMOVED. IF ANY BEAMS BECOME DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE BEAMS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE STATE.

DESIGN AGENCY: ODOT DISTRICT THREE

DESIGNED: SJD | DRAWN: SJD | REVISED: SJD | DATE: 02/25/05
CHECKED: DJV | REVISED: DCM | STRUCTURE FILE NUMBER: 0304735

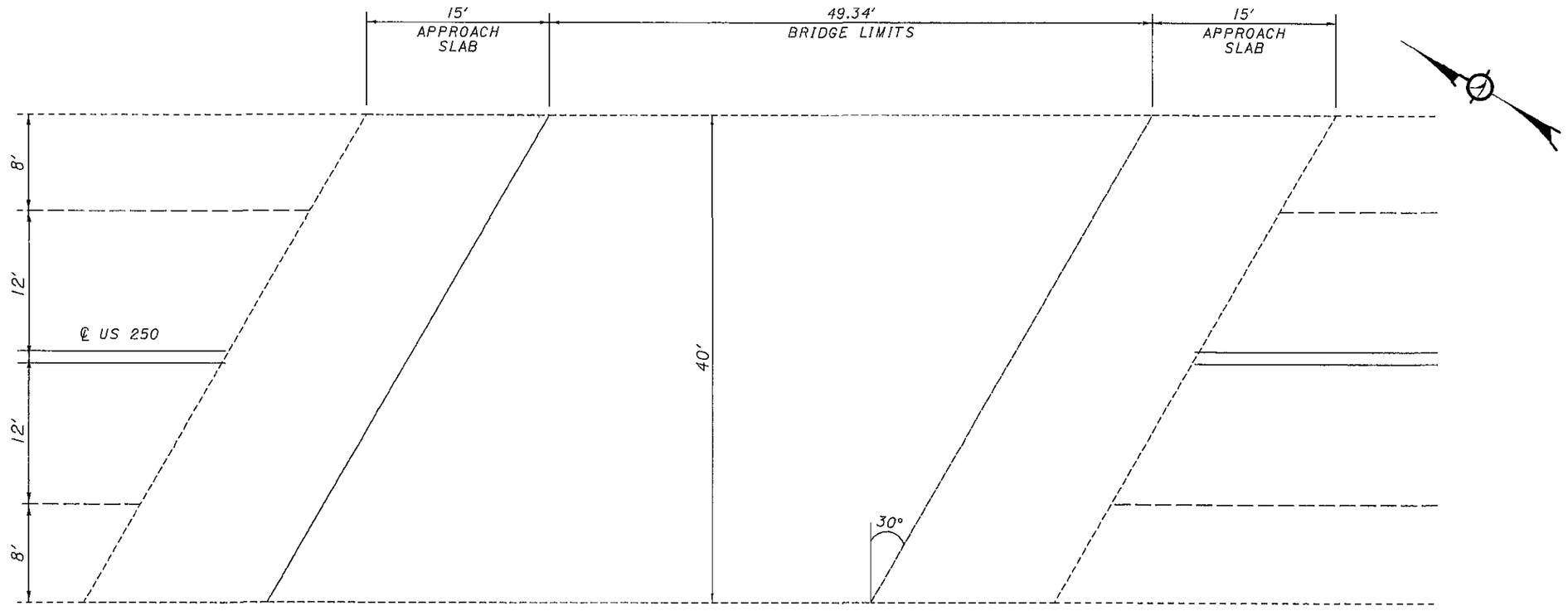
STRUCTURE DETAILS
ASD-250-0742
OVER BRANCH OF VERMILION RIVER

ASD-250-0.00

2 | 2

49
56

DESIGN FILE: i:\projects\23587\Struct\ASD-250-0742 SFN 0304735\SDIOOSEL.dgn
WORKSTATION: sdeer DATE: 2/25/2005



NOTES

1) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

2) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

3) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

4) QUANTITIES INCLUDE BRIDGE LIMITS AS WELL AS APPROACH SLABS.

5) APPROACH AND BRIDGE DECK NOT SHOWN.

PAVEMENT ITEMS

ITEM	DESCRIPTION	UNIT	TOTAL
254	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ YD	352.6
* 407	TACK COAT	GALLON	28.2
* 407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	10.6
* 442	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	CU YD	17.1
* 442	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	CU YD	12.2

* - QUANTITIES SHOWN INCLUDED WITHIN THE QUANTITIES ON THE PAVEMENT DATA SHEET. ALL OTHER QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

STRUCTURE ITEMS

ITEM	DESCRIPTION	UNIT	TOTAL
SPECIAL	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	FT	92.4
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	72.5

STRUCTURE DATA

TYPE: SINGLE SPAN PRECAST BOX BEAMS ON CAPPED PILE ABUTMENTS
SPAN: 48'-0" C/C BEARINGS
ROADWAY: 40'-0" F/F GUARDRAIL & O/O DECK
LOADING: HS-20-44 & ALTERNATE MILITARY LOADING
SKEW: 30° LF
WEARING SURFACE: 2.5" MIN. ASPHALT CONCRETE
APPROACH SLABS: 15' LONG
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1990

DESIGN AGENCY ODOT DISTRICT THREE
DESIGNED SJD | DRAWN SJD | REVIEWED DCM | DATE 02/25/05
CHECKED DJV | REVISED SJD | STRUCTURE FILE NUMBER 0304751

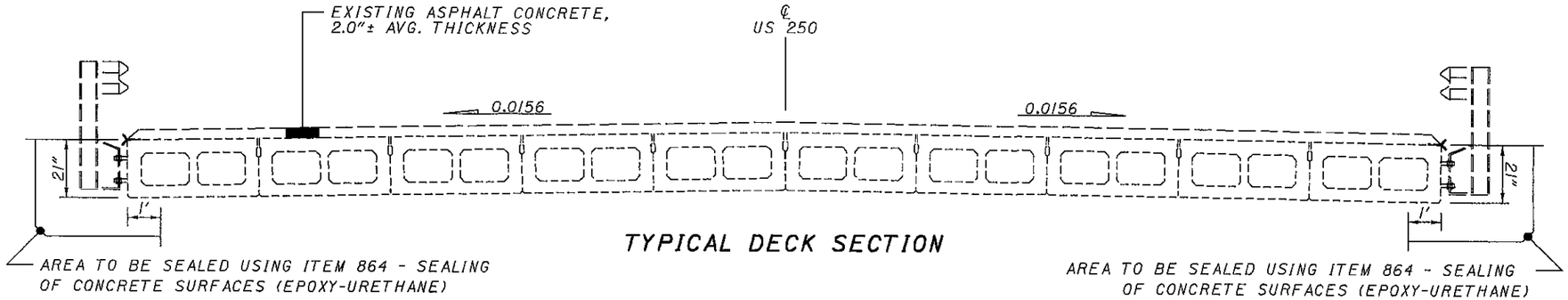
SITE PLAN
ASD-250-0756
OVER SAVANNAH LAKE DITCH

ASD-250-0.00

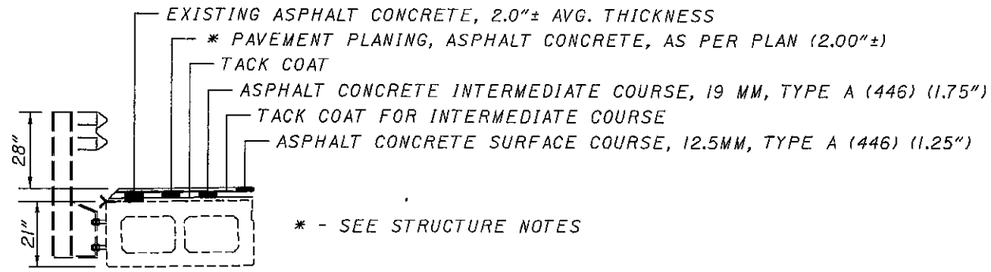
1 / 2

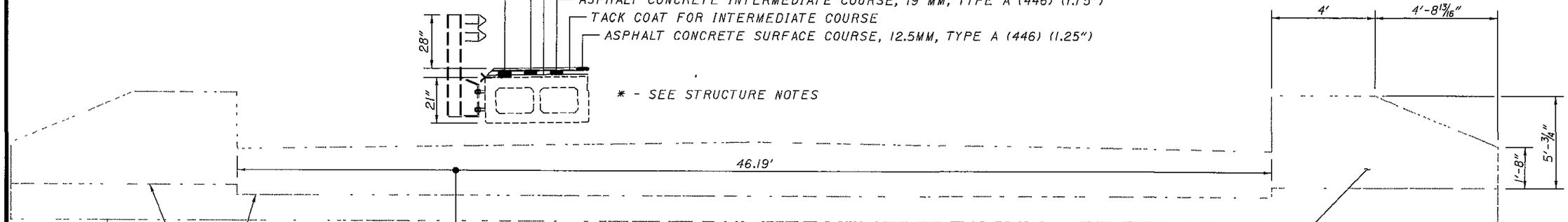
50 / 56

DESIGN FILE: I:\projects\23587\Struct\ASD-250-0756 SFN 0304751\SP100.dgn
WORKSTATION: sdeer DATE: 2/25/2005

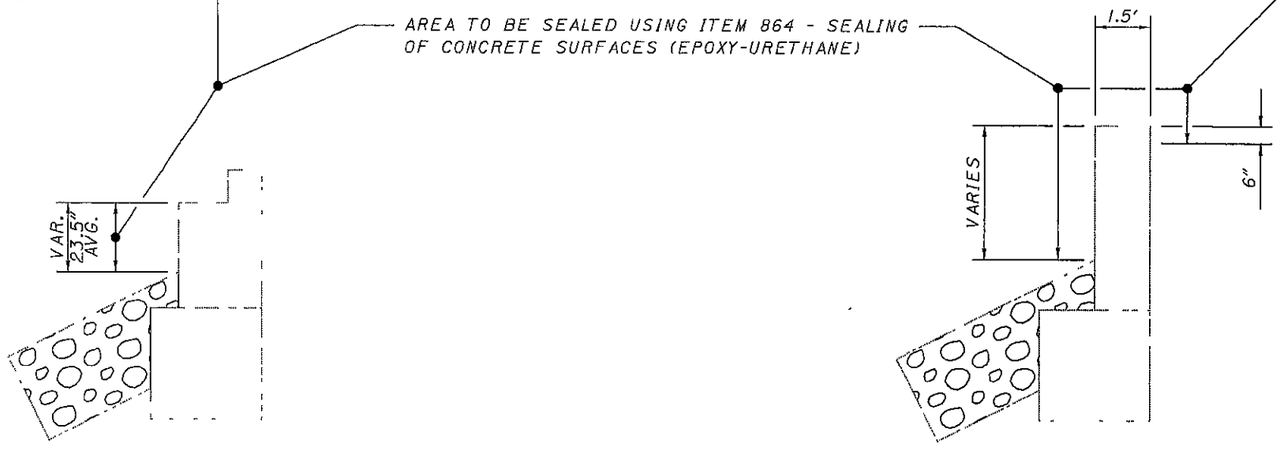


TYPICAL DECK SECTION





TYPICAL ABUTMENT SECTION



ABUTMENT

WINGWALL

DESIGN FILE: I:\projects\23587\Struct\ASD-250-0756 SFN 030475I\SDI00SEL.dgn
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY: ODOT DISTRICT THREE
DESIGNED: SJD DRAWN: SJD REVIEWED: DCM DATE: 02/25/05
CHECKED: DJV REVISED: SJD STRUCTURE FILE NUMBER: 0304751

STRUCTURE DETAILS
ASD-250-0756
OVER SAVANNAH LAKE DITCH

ASD-250-0.00

2 / 2

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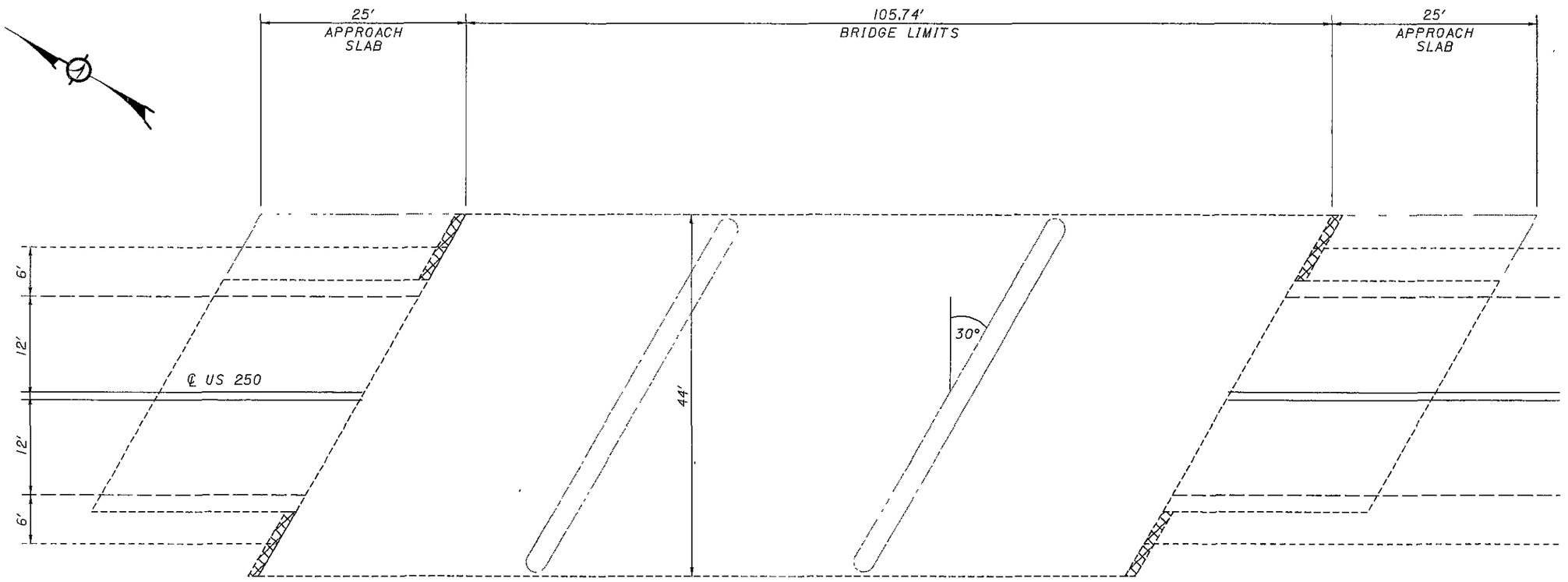

AREAS TO BE REMOVED WITH ITEM 848 EXISTING CONCRETE OVERLAY REMOVED. THESE AREAS SHALL BE PAVED WITH THE PAVING OPERATIONS, WITH ASPHALT CONCRETE.

STRUCTURE ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
846	TREATING CONCRETE BRIDGE DECKS WITH HMWM RESIN	SQ YD	211.5
848	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRO-DEMOLITION, AS PER PLAN (2.5"± THICK)	SQ YD	376.0
848	SURFACE PREPARATION USING HYDRODEMOLITION	SQ YD	376.0
848	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	CU YD	14.4
848	HAND CHIPPING	SQ YD	11.3
848	TEST SLAB		LUMP
848	EXISTING CONCRETE OVERLAY REMOVED (1.25" THICK)	SQ YD	376.0
848	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	SQ YD	23.2
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	83.3

NOTES

1) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

2) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

3) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

4) QUANTITIES INCLUDE BRIDGE LIMITS AS WELL AS APPROACH SLABS.

5) APPROACH AND BRIDGE RAIL NOT SHOWN.

STRUCTURE DATA

TYPE: CONTINUOUS REINFORCED CONCRETE SLAB WITH CAPPED PILE ABUTMENTS
SPAN: 32'-0", 40'-0", 32'-0" C/C BEARINGS
ROADWAY: 44'-0" F/F GUARDRAIL & O/O DECK
LOADING: HS-20-44
SKEW: 30°00' L.F.
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25' LONG
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1970

DESIGN AGENCY: ODOT DISTRICT THREE
DESIGNED: SJD
DRAWN: SJD
CHECKED: DJV
REVISED: SJD
REVIEWED: DCW
DATE: 02/25/05
STRUCTURE FILE NUMBER: 0304778

SITE PLAN
ASD-250-1087
OVER LONG RIVER

ASD-250-0.00

1 / 2

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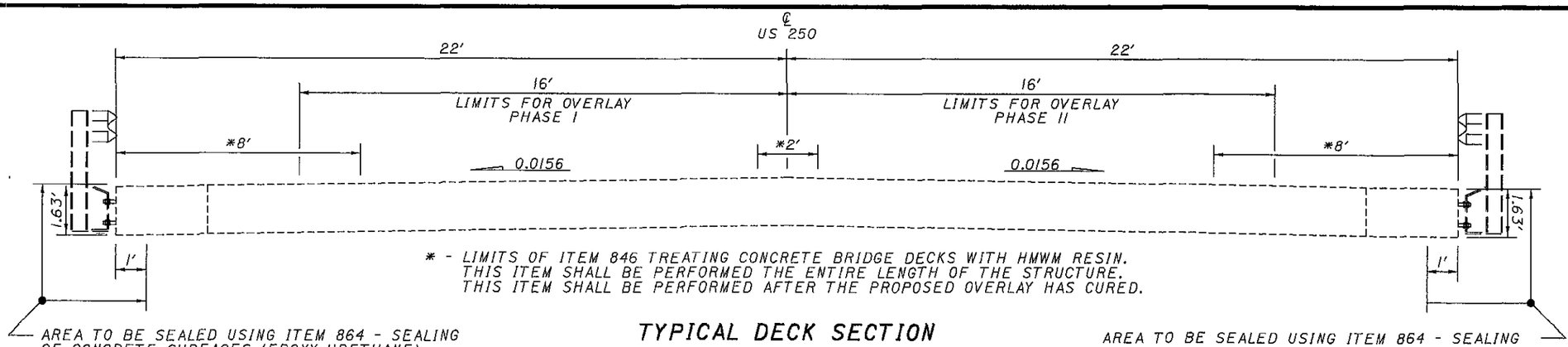
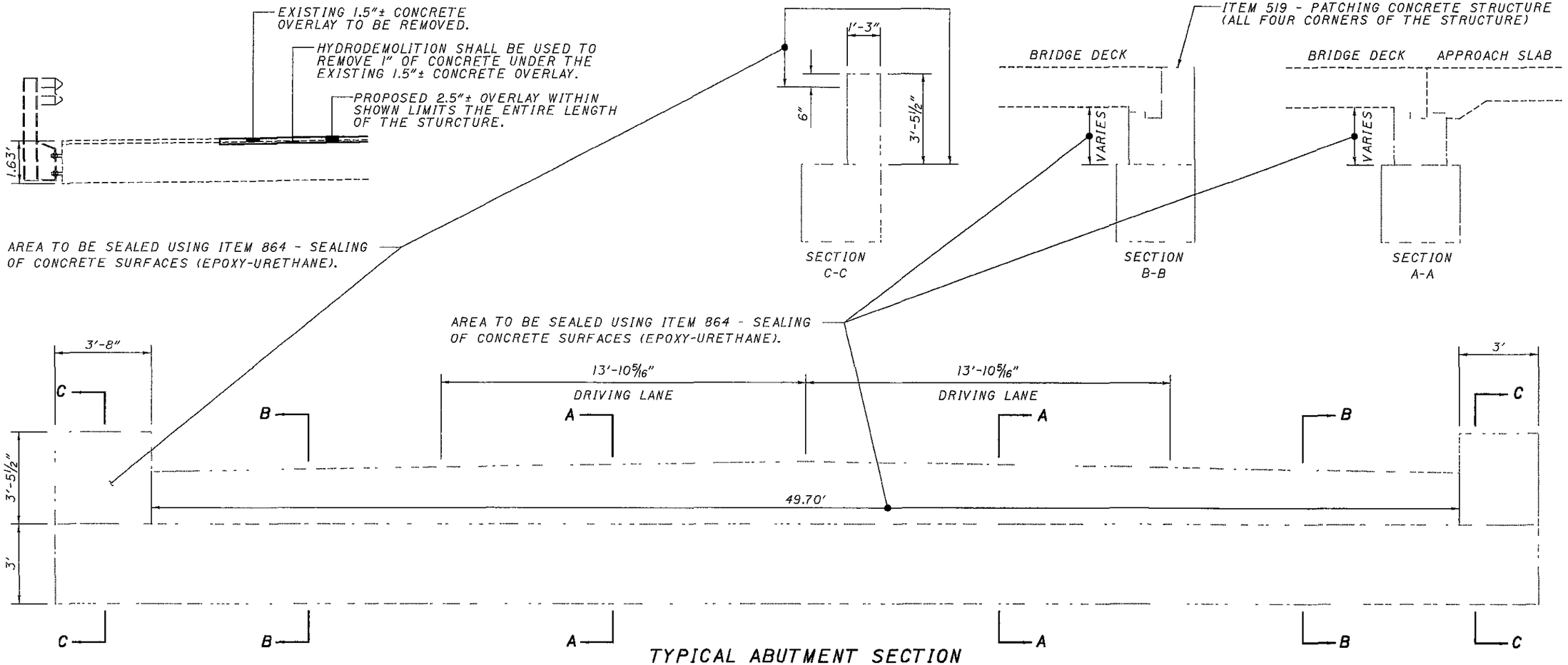
DESIGN FILE: I:\projects\2358\Struct\ASD-250-1087 SFN 0304778\SP100.dgn
WORKSTATION: sdeer DATE: 2/25/2005



TYPICAL DECK SECTION



TYPICAL ABUTMENT SECTION

NOTE

1) THE DECK SURFACE SHALL HAVE A UNIFORM SLOPE ACROSS THE BRIDGE DECK FROM THE OUTSIDE EDGE, TO THE CROWN POINT.

DESIGN AGENCY ODOT DISTRICT THREE

DATE 02/25/05 | STRUCTURE FILE NUMBER 0304778

REVIEWED DCM | REVISED SJD

DRAWN SJD | CHECKED DJV

DESIGNED SJD

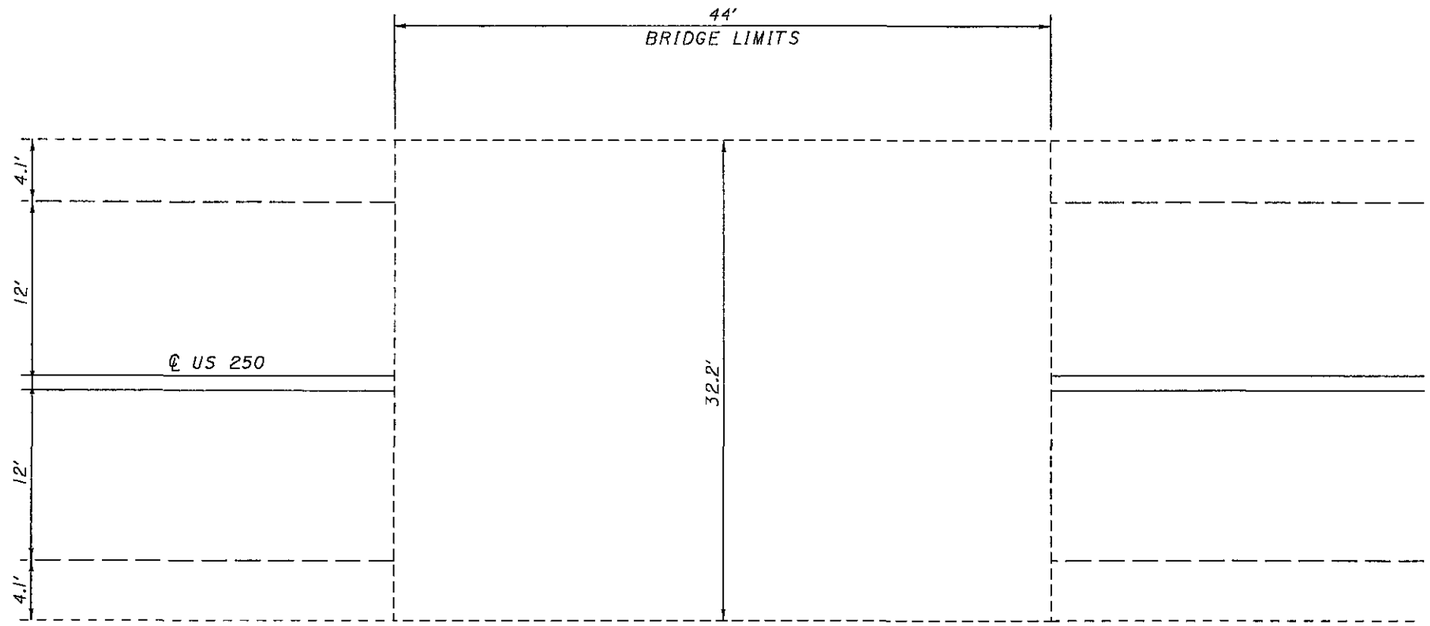
STRUCTUE DETAILS
ASD-250-1087
OVER LONG RIVER

ASD-250-0.00

2 / 2

53 / 56

DESIGN FILE: I:\projects\23587\Struct\ASD-250-1087 SFN 0304778\SD100SEL.dgn
WORKSTATION: sdeer DATE 2/25/2005



STRUCTURE ITEMS			
ITEM	DESCRIPTION	UNIT	TOTAL
202	PORTIONS OF STRUCTURE REMOVED	CU YD	17.2
202	BRIDGE RAILING REMOVED	FT	100
509	EPOXY COATED REINFORCING STEEL	POUND	2583
510	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	EACH	72
511	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN	CU YD	13.3
511	CLASS C CONCRETE	CU YD	4.8
517	RAILING (TWIN STEEL TUBE)	FT	94.83
848	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRO-DEMOLITION, AS PER PLAN (2.5"± THICK)	SQ YD	157.4
848	SURFACE PREPARATION USING HYDRODEMOLITION	SQ YD	128.1
848	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	CU YD	4.4
848	HAND CHIPPING	SQ YD	3.8
848	TEST SLAB		LUMP
848	EXISTING CONCRETE OVERLAY REMOVED (1.25" THICK)	SQ YD	128.1
848	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	SQ YD	6.4
864	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	42.5

NOTES

1) THE CONTRACTOR SHALL ENSURE NOT TO ALLOW A GRADE BREAK OF MORE THAN 0.30% ON THE PROJECT.

2) THE CONTRACTOR SHOULD NOTE THAT THE DEPTH OF ASPHALT ON THE APPROACH SLABS IS UNKNOWN. THE CONTRACTOR SHALL REMOVE PLAN DEPTH OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS UNLESS THE THICKNESS OF ASPHALT CONCRETE ON TOP OF THE APPROACH SLABS IS LESS THAN PLAN DEPTH OF PLANING, IN WHICH THE CONTRACTOR SHALL PLANE DOWN TO THE CONCRETE SURFACE OF THE APPROACH SLAB.

3) THE CONTRACTOR SHALL ENSURE TO REDUCE THE THICKNESS OF THE INTERMEDIATE COURSE ON THE APPROACH SLABS TO ENSURE A SMOOTH TRANSITION FROM THE ASPHALT CONCRETE PAVED APPROACH SLABS TO THE BRIDGE DECK.

4) QUANTITIES INCLUDE BRIDGE LIMITS.

5) APPROACH AND BRIDGE RAIL NOT SHOWN.

STRUCTURE DATA

TYPE: TWO SPAN CONCRETE SLAB
BRIDGE LIMITS: 44'
ROADWAY: 32.2' F/F GUARDRAIL & O/O DECK
LOADING: UNKNOWN
SKEW: NONE
WEARING SURFACE: CONCRETE
APPROACH SLABS: UNKNOWN
ALIGNMENT: TANGENT
SUPERELEVATION: NONE
BUILT: 1961

DESIGN AGENCY: ODOT DISTRICT THREE
DESIGNED: SJD | DRAWN: SJD | REVIEWED: DCM | DATE: 02/25/05
CHECKED: DJV | REVISED: SJD | STRUCTURE FILE NUMBER: 0304808

SITE PLAN
ASD-250-1162
OVER BRANCH OF LONG CREEK

ASD-250-0.00

1 / 3

54 / 56

DESIGN FILE: I:\projects\23587\Struct\ASD-250-1162 SFN 0304808\SP100.dgn
WORKSTATION.sdeer DATE: 2/25/2005

SIGNAL TIMING

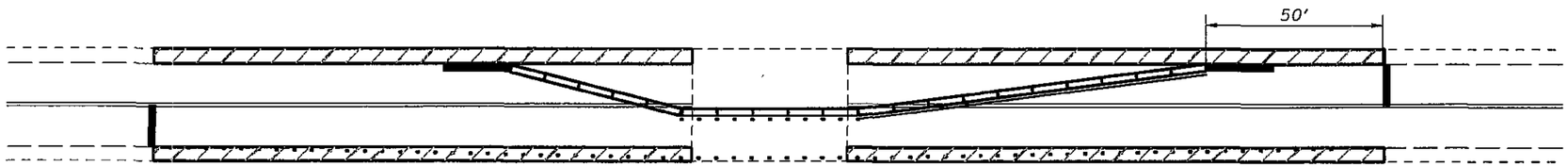
A TWO PHASE CONTROLLER WITH CABINET CAPABLE OF BEING SET WITH THE FOLLOWING SPLITS SHALL BE FURNISHED

CYCLE LENGTH: 60 SECONDS

	GREEN	AMBER	RED
PHASE A	20	5	5
PHASE B	20	5	5

THE ABOVE TIMING MAYBE CHANGED WITH THE APPROVAL OF THE ENGINEER

FOR DETAILS NOT SHOWN SEE STANDARD DRAWINGS
MT-96.11, MT-96.20, MT-96.25, MT-101.20

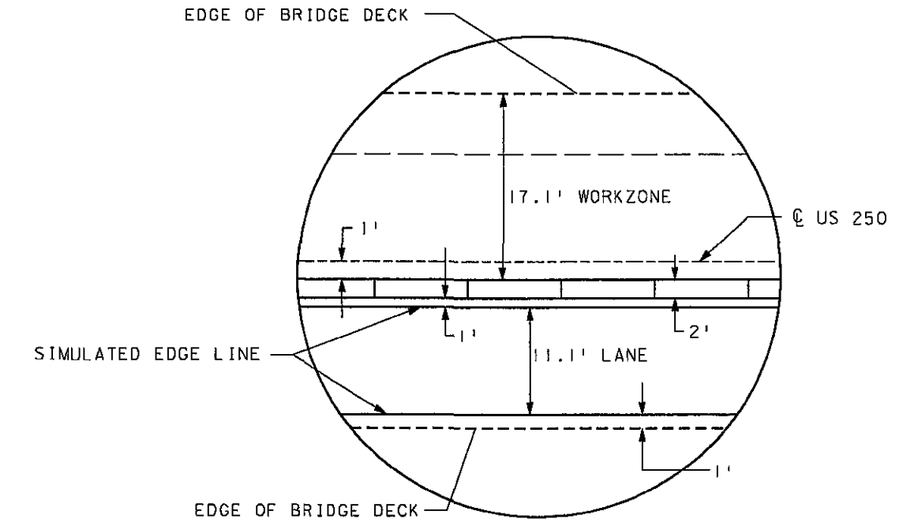


PHASE A SHOWN
PHASE B SIMILAR

PROPOSED PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN *170' LONG (TYPICAL ALL CORNERS), DO NOT* REMOVE, PAVEMENT IS TO REMAIN AFTER PROJECT IS COMPLETED

ITEM	QUANTITY	UNIT	DESCRIPTION
614	2	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)
614	262	EACH	WORK ZONE RAISED PAVEMENT MARKER
614	9	EACH	BARRIER REFLECTOR, TYPE B2
614	9	EACH	OBJECT MARKER, TWO WAY
614	.06	MILE	WORK ZONE CENTER LINE, CLASS I (SOLID DOUBLE)
614	.02	MILE	WORK ZONE EDGE LINE, CLASS I (WHITE)
614	24	FT.	WORK ZONE STOP LINE, CLASS I
615	279	SQ.YD.	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN
622	300	FT.	PORTABLE CONCRETE BARRIER, 32"
622	100	FT.	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED (UNANCHORED)

ALL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET



DETAIL A

NOTES:

1) APPROACH AND BRIDGE RAIL NOT SHOWN.

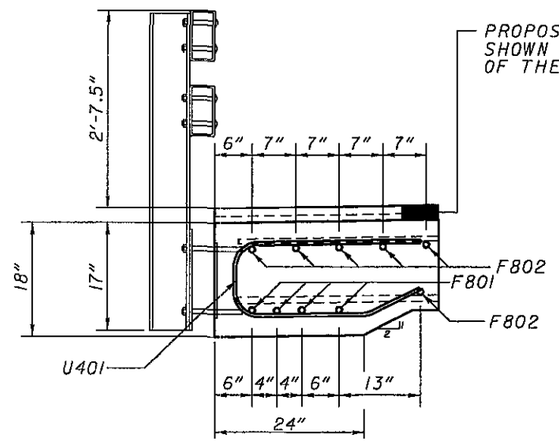
DESIGN FILE: k:\projects\23587\Struct\MOT.DGN
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY: DISTRICT THREE
DESIGNED SJD | DRAWN SJD | REVIEWED DCM | DATE
CHECKED DJV | REVISED | STRUCTURAL FILE NUMBER 0304808

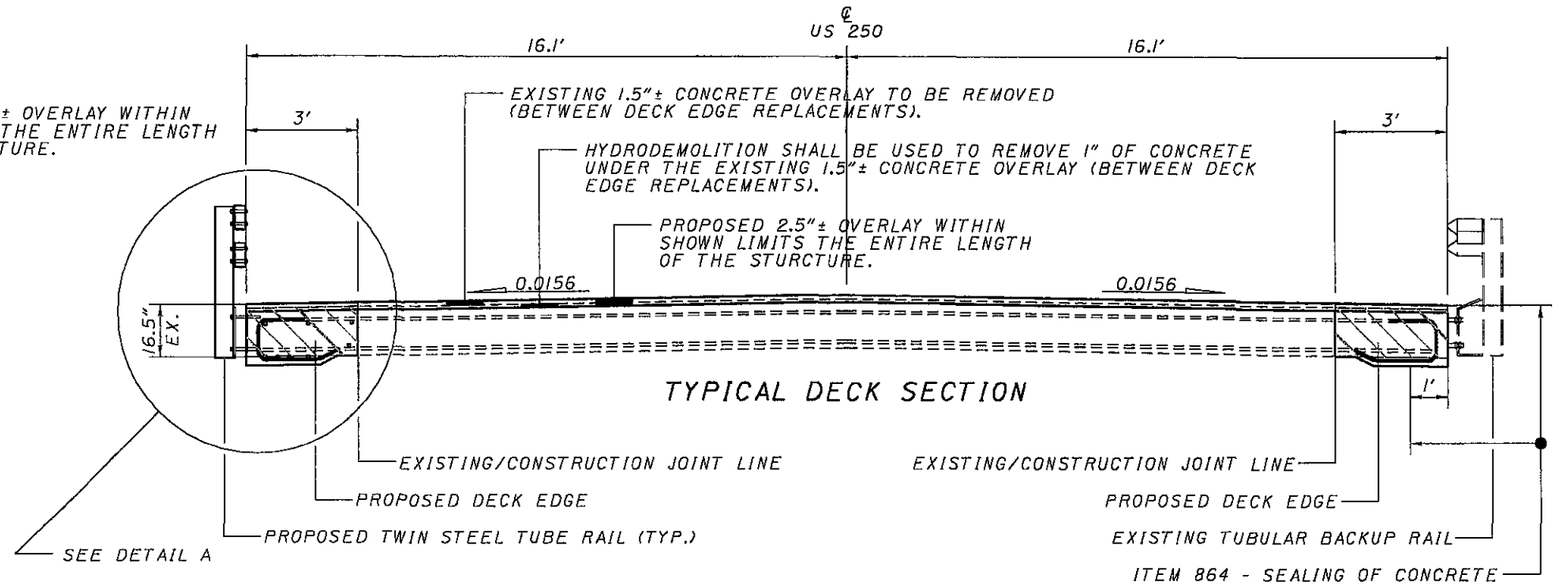
MAINTENANCE OF TRAFFIC
ASD-250-1162
OVER BRANCH LONG CREEK

ASD-250-0.00

54A
56

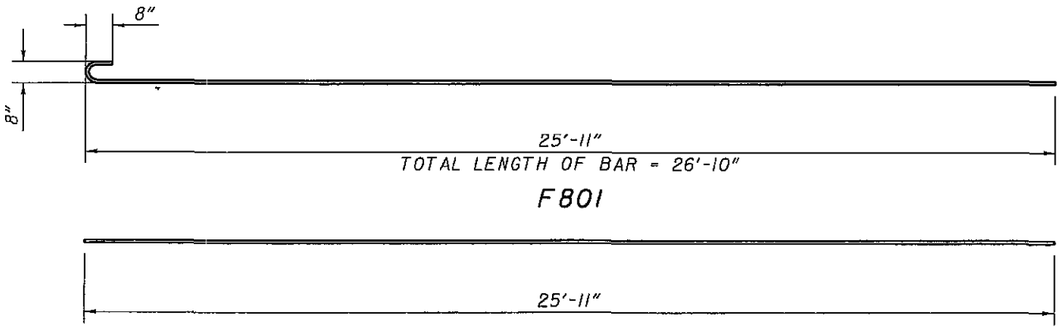


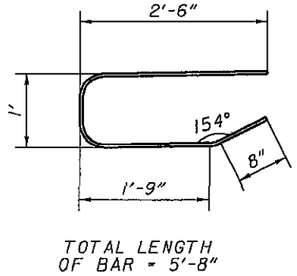
DETAIL A



TYPICAL DECK SECTION

DECK EDGE TO BE REMOVED

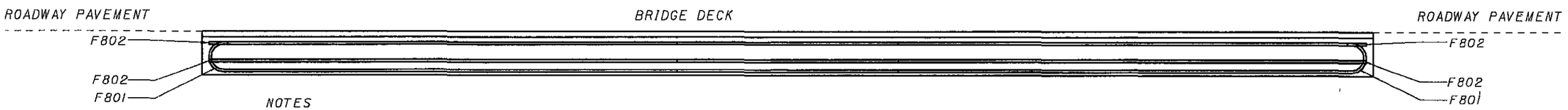




TOTAL LENGTH OF BAR = 5'-8"

U401

REBAR DATA				QUANTITIES	
DECK				TOTAL	
MARK	SIZE	SHAPE	LENGTH	NUMBER	WEIGHT
F801	8	BENT	26'-10"	16	121
F802	8	STR	25'-11"	24	1661
U401	4	STR	5'-8"	66	250
					2032



NOTES

1) GUARDRAIL NOT SHOWN ON PROFILE VIEW..
2) U401 BARS NOT SHOWN ON PROFILE VIEW.
3) BARS SHALL HAVE A LAP OF A MINIMUM OF 69".
4) ALL TRANSVERSE REINFORCING STEEL SHALL BE PRESERVED.

PROFILE VIEW

DESIGN FILE: I:\projects\23587\Struct\ASD-250-1162 SFN 0304808\SD100.dgn
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY ODOT DISTRICT THREE
DESIGNED SJD DRAWN SJD REVISED SJD
CHECKED DJV REVISED DCM 02/25/05
STRUCTURE FILE NUMBER 0304808

STRUCTURE DETAILS
ASD-250-1162
OVER BRANCH OF LONG CREEK

ASD-250-0.00

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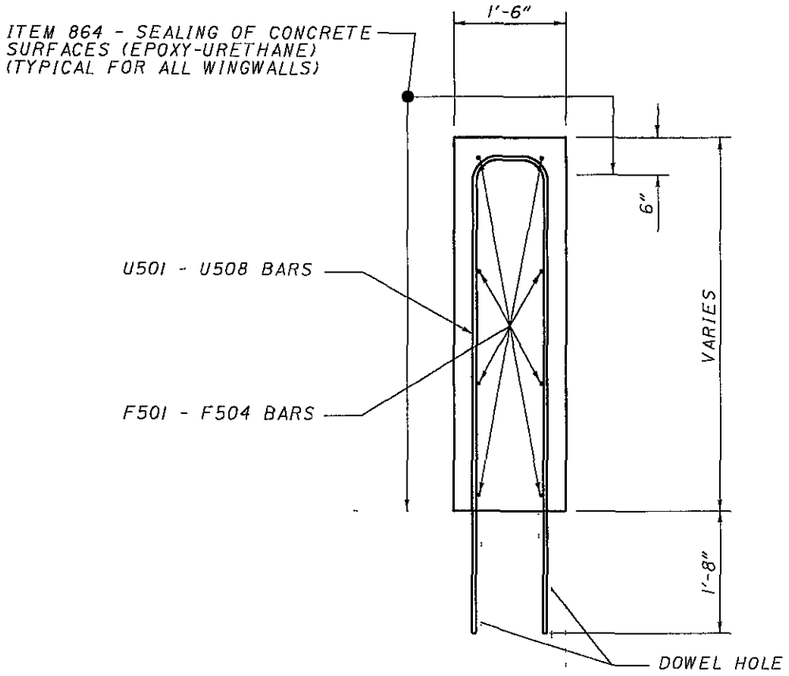
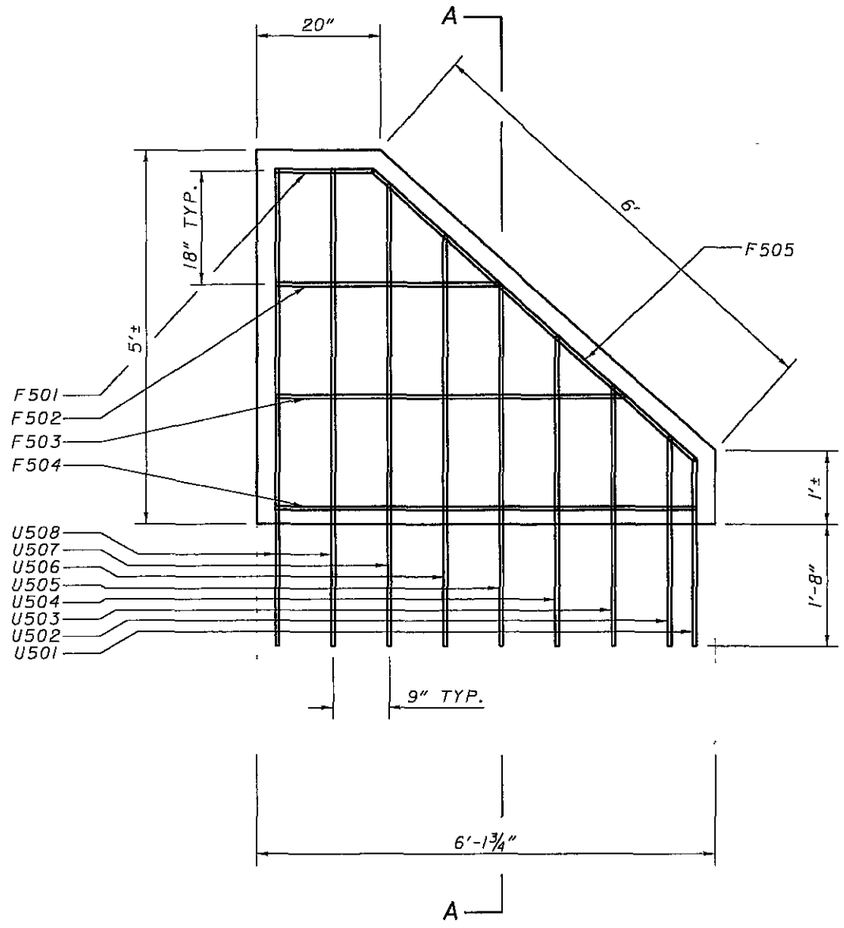
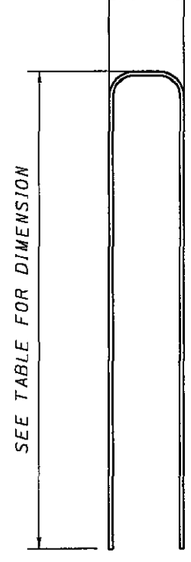


SECTION A-A



WINGWALL



BAR	DIMENSION
U501	2'-7"
U502	2'-10"
U503	3'-6"
U504	4'-2"
U505	4'-10"
U506	5'-6"
U507	6'-3"
U508	6'-5"

REBAR DATA				QUANTITIES			
WINGWALL				PER WINGWALL		TOTAL	
MARK	SIZE	SHAPE	LENGTH	NUMBER	WEIGHT	NUMBER	WEIGHT
F501	5	STR	1'-4"	2	3	8	11
F502	5	STR	3'-0"	2	6	8	25
F503	5	STR	4'-8"	2	10	8	39
F504	5	STR	5'-8"	2	12	8	47
F505	5	STR	5'-10"	2	12	8	49
U501	5	BENT	5'-9"	1	6	4	24
U502	5	BENT	6'-4"	1	7	4	26
U503	5	BENT	7'-8"	1	8	4	32
U504	5	BENT	9'-0"	1	9	4	38
U505	5	BENT	10'-4"	1	11	4	43
U506	5	BENT	11'-8"	1	12	4	49
U507	5	BENT	13'-1"	1	14	4	55
U508	5	BENT	13'-6"	2	28	4	113
							551

NOTES

1) ALL TRANSVERSE REINFORCING STEEL SHALL BE PRESERVED.

2) ALL BARS SHALL HAVE A 3" CLEARENCE FROM THE FACE OF CONCRETE.

DESIGN FILE: i:\projects\23587\Struct\ASD-250-1162 SFN 0304808\SDI00.dgn
WORKSTATION: sdeer DATE: 2/25/2005

DESIGN AGENCY ODOT DISTRICT THREE

DESIGNED	DRAWN	REVIEWED	DATE
SJD	SJD	DCW	02/25/05
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DJV	SJD	0304808	

STRUCTURE DETAILS
ASD-250-1162
OVER BRANCH OF LONG CREEK

ASD-250-0.00

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