

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

WAY-30-19.81  
WAY-172-0.00

SUGAR CREEK TWP.  
EAST UNION TWP.  
VILLAGE OF DALTON  
WAYNE COUNTY

PROJECT DESCRIPTION

THIS PROJECT IS X MILES LONG AND WILL INCLUDE PAVEMENT PLANING, PAVEMENT REPAIRS, RESURFACING WITH ASPHALT CONCRETE, PLACEMENT OF PAVEMENT MARKINGS & BRIDGE REPAIRS.

PROJECT EARTH DISTURBED AREA: N/A ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES

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 OF THE OHIO REVISED CODE.

2010 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.

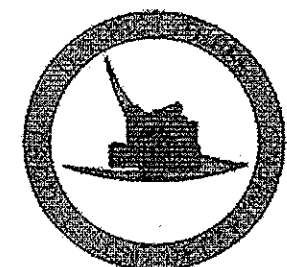
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

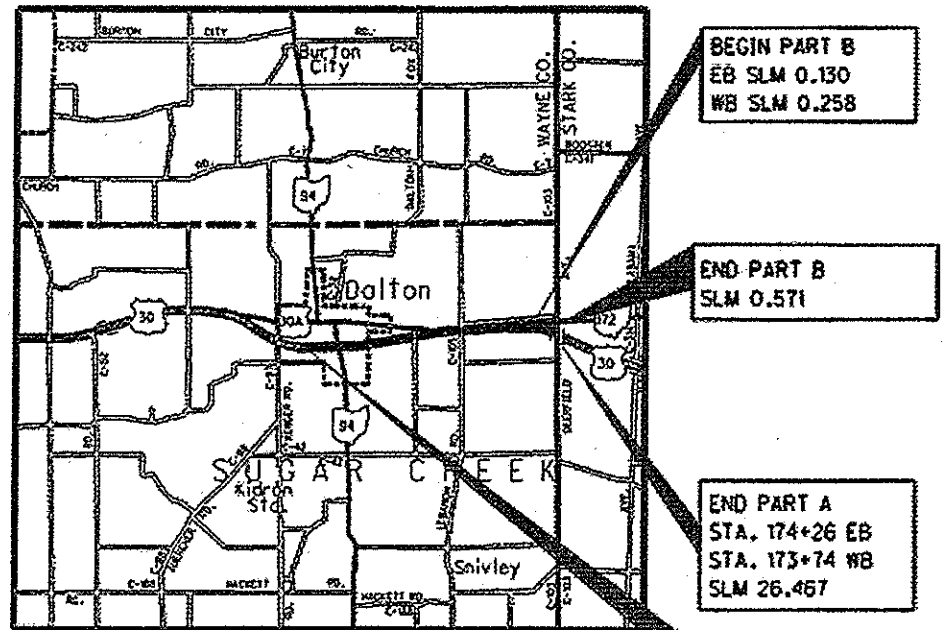
APPROVED J. Hart, P.E.  
DATE 12/23/10 DISTRICT DEPUTY DIRECTOR

APPROVED Saline M. Malinich  
DATE 1-5-11 DIRECTOR, DEPARTMENT OF TRANSPORTATION

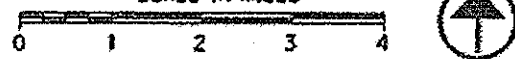
PLAN PREPARED BY:



**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  
OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-925-0589



LOCATION MAP  
LATITUDE: N 40°47'35" LONGITUDE: W 81°40'00"  
SCALE IN MILES



PORTION TO BE IMPROVED: [Symbol]  
UNDIVIDED STATE & FEDERAL ROUTES: [Symbol]  
OTHER ROADS: [Symbol]

DESIGN DESIGNATION  
SEE SHEET NO. 3.

DESIGN EXCEPTIONS  
3R PROJECT

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<p>ROADWAY ENGINEERS SEAL:</p> <p>SIGNED: <u>Bruce A. Dalton</u> DATE: <u>12/23/10</u></p>	<p>STRUCTURE ENGINEERS SEAL:</p> <p>SIGNED: <u>Charles A. Laughrey</u> DATE: <u>12/23/10</u></p>
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STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
BP-2.5	7/18/08	DM-1.1	4/21/06	GS0-1-95	7/18/02	800	1/21/11
BP-3.1	10/19/07	DM-1.4	4/21/06	FB-1-92	5/10/82	832	5/5/09
BP-9.1	4/15/05	DM-4.3	4/17/09	RB-1-55	2/2/53	847	7/16/10
GR-1.1	7/15/04	DM-4.4	4/17/09	TBR-91	7/19/02		
GR-2.1	1/15/04						
GR-3.1	10/15/09	MT-35.10	4/20/01				
GR-3.2	10/15/09	MT-95.30	7/17/09	TC-4L20	1/19/01		
GR-3.3	10/15/09	MT-95.31	7/17/09	TC-42.20	7/16/04		
GR-4.1	4/18/03	MT-95.50	4/17/09	TC-52.10	1/19/07		
GR-4.2	1/19/07	MT-97.10	10/15/10	TC-52.20	1/19/07		
GR-5.1	4/16/10	MT-98.29	7/17/09	TC-61.30	4/16/10		
		MT-101.60	4/17/09	TC-65.10	1/21/05		
		MT-101.90	1/16/09	TC-65.11	1/21/05		
CB-2.3	7/15/05	MT-105.10	1/16/09	TC-71.10	1/15/10		
CB-3.2	7/15/05			TC-73.10	1/19/01		
CB-3.4	7/15/05						

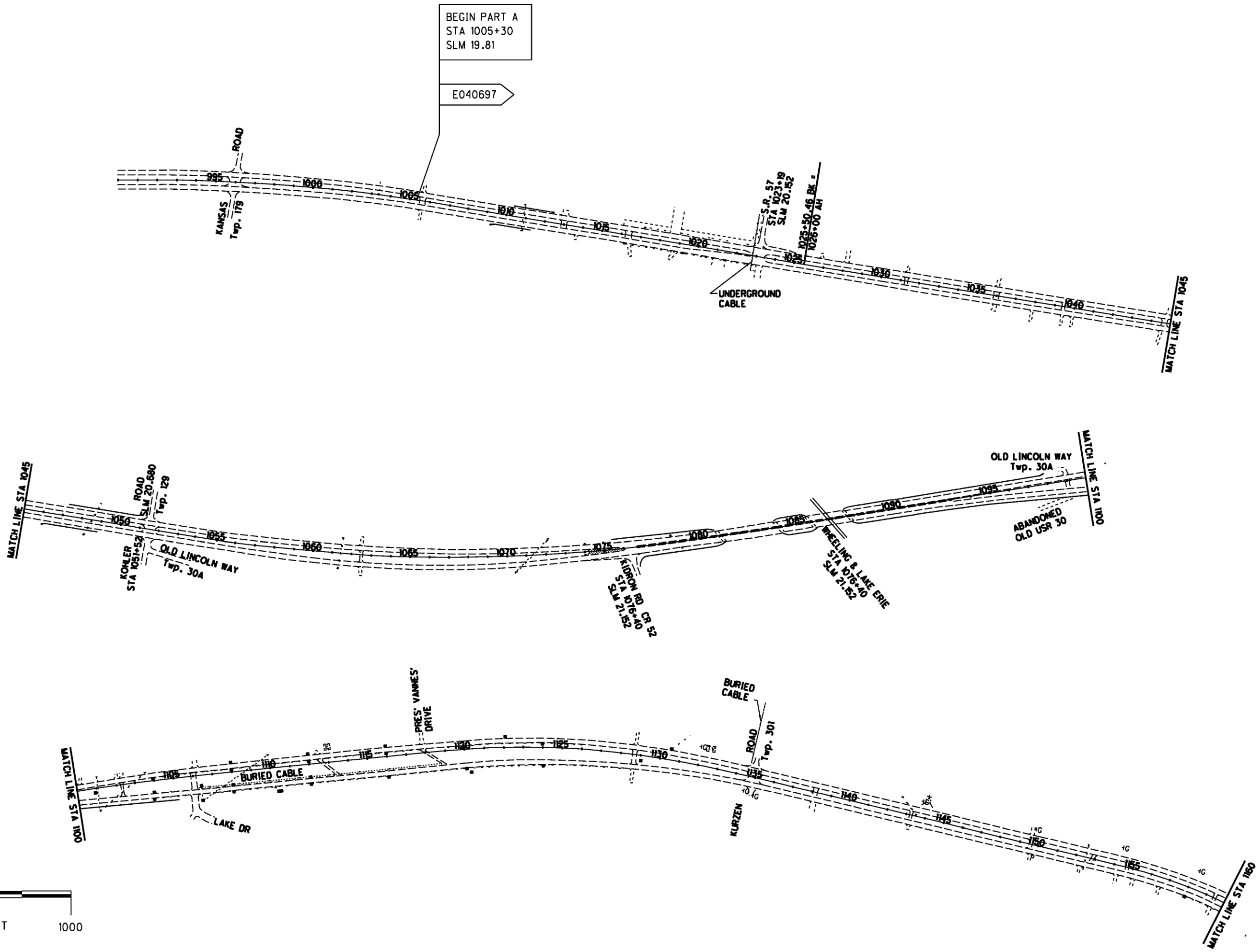
SPECIAL PROVISIONS

DESIGN FILE: I:\projects\77449\77449  
 WORKSTATION: sjuzwik  
 DATE: 12/23/10  
 WAY - US-30-19.81; WAY-172-0.00  
 110180 PID - 77449  
 Dist 3 3/24/2011

FEDERAL PROJECT NO. E040697  
 PID NO. 77449  
 CONSTRUCTION PROJECT NO.  
 RAILROAD INVOLVEMENT  
 WHEELING & LAKE ERIE  
 WAY-30-19.81  
 WAY-172-0.00  
 70

DESIGN FILE: I:\projects\77449\77449gb001.dgn  
WORKSTATION: sjuzwik

DATE: 12/22/2010



BEGIN PART A  
STA 1005+30  
SLM 19.81

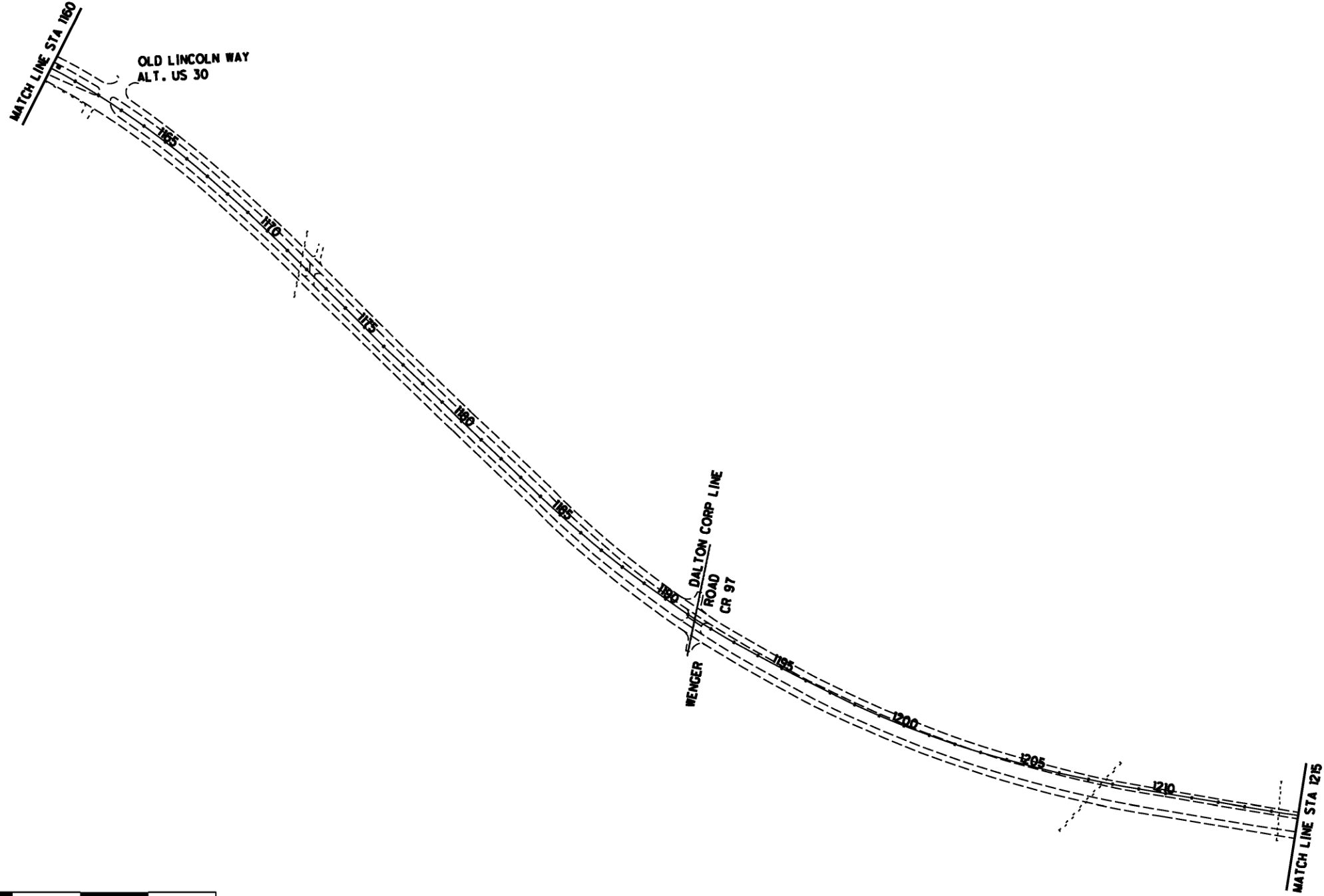
E040697

CALCULATED  
SCJ  
CHECKED  
ABD

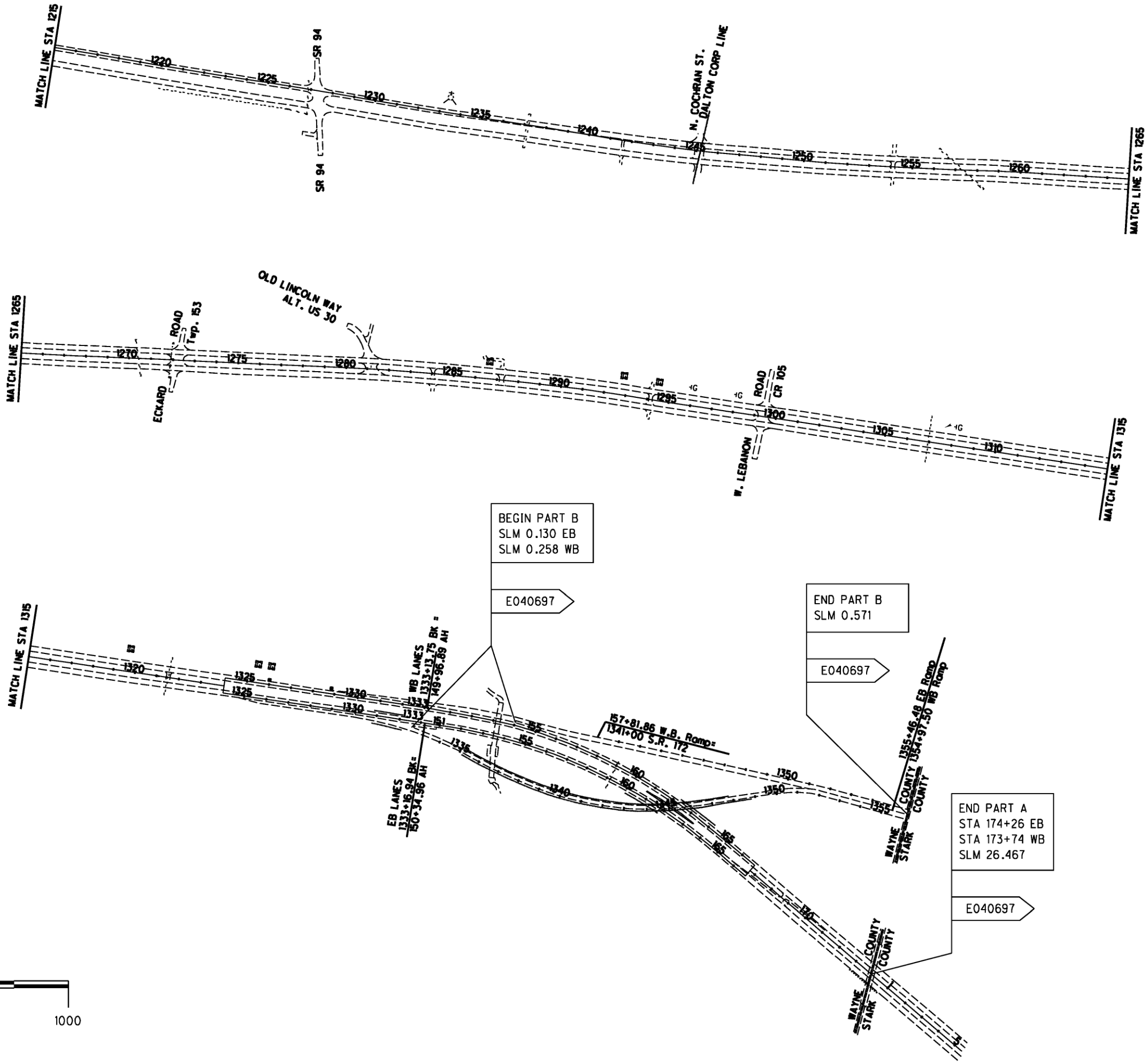
SCHEMATIC

WAY - 30-19.81  
WAY - 172-0.00

DESIGN FILE: I:\projects\77449\77449gb001.dgn  
 WORKSTATION: sjuzwik DATE: 12/22/2010



	US-30	US-30	US-30	US-30	US-30	US-30	US-30	SR-172	SR-172
DESIGN DESIGNATION	19.81	20.15	22.79	23.34	24.02	24.46	24.48	25.04	26.02
CURRENT ADT (2011)	19,480	20,460	18,720	18,720	19,390	19,390	19,390	19,550	15,270
DESIGN YEAR ADT (2023)	21,080	22,590	21,530	21,530	22,310	22,310	22,310	22,100	18,200
DESIGN HOURLY VOLUME (2023)	2110	2260	2150	2150	2230	2230	2230	2210	1820
DIRECTIONAL DISTRIBUTION	54%	56%	55%	55%	55%	55%	55%	55%	50%
TRUCKS (24 HOUR B&C)	21%	18%	19%	19%	18%	18%	18%	17%	22%
SPEED LIMIT IN MPH	55	55	55	50	50	55	55	55	55
SR-2 NHS (NON-INTERSTATE)									



**REFERENCES SHALL BE MADE TO STANDARD DRAWINGS:**

BP-3.1	DATED	10/19/07
GSD-1-96	DATED	7/19/02
FB-1-82	DATED	5/10/82
RB-1-55	DATED	2/2/59
TBR-91	DATED	7/19/02

**REFERENCES SHALL BE MADE TO SUPPLEMENTAL SPECIFICATION:**

847	DATED	7/16/10
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**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, 105.02 AND 513.04.

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
WAY-30-2126	WAY-30-17.03	1950
WAY-30-2135	WAY-30-17.03	1950
WAY-172-0200	WAY-30-25.23	1964

THE FOLLOWING PLANS ARE ALSO AVAILABLE:

PLAN NAME	DATE
WAY-30-16.72	1983

**DESIGN DATA:**

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4,000 PSI  
 REINFORCING STEEL - ASTM A615 OR A996 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI  
 STRUCTURAL STEEL - ASTM A709 GRADE 50W OR GRADE 50 - YIELD STRENGTH 50,000 PSI  
 A709 GRADE 36 - YIELD STRENGTH 36,000 PSI

**DECK PROTECTION METHOD:**

SUPERPLASTICIZED DENSE CONCRETE OVERLAY  
TREATING OF CONCRETE BRIDGE DECKS WITH SRS

**PLACING ASPHALT CONCRETE FEATHERING 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.

**CUT LINE CONSTRUCTION JOINT PREPARATION:**

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL IN PLACE. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

**CONSTRUCTION CLEARANCE: WAY-30-2135**

MAINTAIN A CONSTRUCTION CLEARANCE OF 13'-0" FEET HORIZONTALLY FROM THE CENTER OF TRACKS AND 22'-0" FEET VERTICALLY FROM A POINT LEVEL WITH THE TOP OF THE HIGHER RAIL.

**ITEM 202 - REMOVAL MISC.: RUBBER SEAL**

THIS ITEM SHALL BE USED AT LOCATIONS IN THE PLAN TO REMOVE THE EXISTING ELASTOMERIC COMPRESSION SEAL.

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 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN**

THIS ITEM SHALL BE USED AT LOCATIONS IN THE PLAN.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS NO HEAVIER THAN THE 90 POUND CLASS. IF THE EXISTING REINFORCING STEEL DESIGNATED FOR PRESERVATION IS DAMAGED DURING REMOVAL OPERATIONS, DOWELLED REINFORCING STEEL SHALL BE ADDED AT THE CONTRACTOR'S EXPENSE.

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

DESIGN FILE: I:\projects\77449\structures\strnotes.dgn  
WORKSTATION: sjuzwik DATE: 12/23/2010

DESIGN AGENCY  
DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
04/10  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER

DRAWN  
GTS  
REVIS  
DESIGNED  
GTS  
CHECKED  
CAL

STRUCTURE NOTES

WAY-30-19.81  
WAY-172-0.00

**ITEM 511 - CONCRETE, MISC.: BACKWALL REPAIR**

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

THE CONCRETE SHALL BE THE SAME TYPE AS USED IN THE SUPERPLASTICIZED DENSE CONCRETE OVERLAY AS PER 847.06.

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

**ITEM 511 - CLASS S CONCRETE, MISC.: REPAIR**  
**ITEM 511 - CONCRETE, MISC.: CLASS C CONCRETE, MEDIAN WALL**

THESE ITEMS SHALL BE USED AT LOCATIONS INDICATED IN THE PLAN.

THE COARSE AGGREGATE SHALL BE LIMESTONE.

THE COST OF THE EXPANSION MATERIAL, DOWEL HOLES, CEMENT GROUT AND #4 REBAR DOWEL IS INCLUDED IN THIS ITEM.

AT THE SPECIFIED LOCATIONS IN THE PLANS, SEAL THE JOINTS WITH HMWM RESIN.

ALL EXISTING SURFACES 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 EACH OF THE ABOVE WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM SPECIAL - BRIDGE DECK GROOVING**

THE BRIDGE DECK GROOVING SHALL MEET CMS 511.20.

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

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

THIS WORK CONSISTS OF RAISING OR REPOSITIONING EXISTING STRUCTURE TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

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, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

**ITEM 516 - RESET BEARINGS, AS PER PLAN**  
**ITEM 516 - RESET BEARINGS, AS PER PLAN (R-200)**  
**ITEM 516 - RESET BEARINGS, AS PER PLAN (NORTH PIER 2)**  
**ITEM 516 - RESET BEARINGS, AS PER PLAN (SOUTH PIER 2)**

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN THE BRIDGE BEARING. REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PAD (711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARING TO PROVIDE A SNUG FIT, AND RELOCATING THE BEARING ALONG THE ABUTMENT SEAT OR PIER CAP SO THAT THE BEARING IS VERTICALLY ALIGNED AT 60° F (15° C), LUBRICATING SLIDING SURFACES, AND RESETTING OF THE BEARING. ASSURE THE BEARING IS SHIMMED ADEQUATELY AND THAT NO BEAMS AND/ OR BEARING DEVICES ARE "FLOATING".

RIVET HEADS THAT CONFLICT WITH THE PROPOSED LOCATION OF THE NEW STIFFENER OR RELOCATED BEARING SHALL BE REMOVED. RIVET HEADS THAT ARE REMOVED SHALL BE COVERED WITH A METAL WELD TO MAKE WATER TIGHT.

PAYMENT FOR ALL OF THE ABOVE LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516-RESET BEARINGS, AS PER PLAN.

**ITEM 517 - RAILING (THRIE BEAM RETROFIT), AS PER PLAN**

THE RAILING SHOULD BE INSTALLED TO AVOID PLACING THE RAILING SUPPORT BRACKET ASSEMBLY OVER THE BRIDGE PARAPET AND THE APPROACH PARAPET JOINT. THE ASSEMBLY NEAREST THE JOINT MAY NEED TO BE ADJUSTED TO ENSURE THE ANCHORS CAN BE SECURLEY PLACED.

THE EXISTING BRIDGE RAILING AND POSTS SHALL BE REMOVED. THE EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH WITH THE TOP OF THE PARAPET WALL.

PAYMENT FOR ALL OF THE ABOVE LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 517-RAILING (THRIE BEAM RETROFIT), AS PER PLAN.

**ITEM 847 - EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)**

THIS ITEM SHALL BE USED TO REMOVE THE EXISTING OVERLAY AS PER DETAILS IN THE PLANS.

THE THICKNESS OF THE EXISTING CONCRETE OVERLAY TO BE REMOVED SHALL BE AS SPECIFIED IN THE PLANS.

PAYMENT FOR ALL OF 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 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)**

**ITEM 847 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN**

THE COARSE AGGREGATE SHALL BE LIMESTONE.

NON-PERFORM THE TEXTURED GROOVING AS SPECIFIED IN 847.22.

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

**ROAD WEATHER INFORMATION SYSTEM (RWIS) SENSORS**

THERE IS A WEATHER STATION AND EXISTING WEATHER SENSORS LOCATED IN THE PAVEMENT AND BRIDGE DECK AT THE EAST END OF THE BRIDGE OVER THE RAILROAD TRACKS (WAY-30-2135). THE CONTRACTOR IS TO NOTIFY ODOT DISTRICT 3 ROADWAY SERVICES MANAGER IN WRITING AT LEAST 14 CALENDAR DAYS ADVANCE NOTICE BEFORE DISTURBING THE PAVEMENT AND/OR BRIDGE DECK IN THE AREA OF THIS BRIDGE SO THAT ODOT CAN ADDRESS THESE SENSORS. THE SENSORS WILL BE REMOVED, RECONDITIONED AND REINSTALLED BY OTHERS.

DESIGN FILE: i:\projects\77449\structures\strnotes.dgn  
WORKSTATION: sjzwik DATE: 12/23/2010

DESIGN AGENCY		DISTRICT THREE		OFFICE OF PRODUCTION	
DATE	04/10	REVIEWED	RDN	STRUCTURE FILE NUMBER	
DRAWN	GTS	CHECKED	REVISED	DESIGNED	CAL
<b>STRUCTURE NOTES</b>					
WAY-30-19-81 WAY-172-0.00					
55 70					

STRUCTURE FILE NO.	BRIDGE NO.	LOCATION	BRIDGE TYPE	SKEW	BRIDGE LIMITS	DECK WIDTH	PROPOSED WORK
8502285	WAY-30-2126	OVER SUGAR CREEK	3-SPAN STEEL BEAM	33° 30' 00"	278'-5"±	63'-8"±	DECK & SUBSTRUCTURE SEALING, EXPANSION JOINT REPAIR, PARAPET REPAIR, DECK PATCHING, APPROACH SLAB REPAIR, MEDIAN BARRIER REPAIR AND RESET BEARINGS
8502374	WAY-30-2135	OVER W & LE RR	3-SPAN STEEL BEAM	32° 17' 00"	187'-4"±	63'-8"±	DECK & SUBSTRUCTURE SEALING, RESET BEARINGS, APPROACH SLAB REPAIR AND MEDIAN BARRIER REPAIR
8502455	WAY-172-0020	EB EXIT RAMP OVER US30	4-SPAN STEEL BEAM	51° 51' 38"	347'-5½"±	26'-0"	DECK OVERLAY, DECK & SUBSTRUCTURE SEALING, BACKWALL REPAIR, RESET BEARINGS, THRIE BEAM GUARD RAIL AND UPDATE BRIDGE TERMINAL ASSEMBLIES

WAY-30-2126 (8502285), L050 FUNDING

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	10	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
202	98200	145	FT	REMOVAL MISC.: RUBBER SEAL	54
509	10000	597	POUND	EPOXY COATED REINFORCING STEEL	
510	10000	68	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	34450	2	CU YD	CLASS S CONCRETE, MISC.: REPAIR	55
511	71100	8	CU YD	CONCRETE, MISC.: CLASS C CONCRETE, MEDIAN WALL	55
512	10100	876	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10400	1851	SO YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
513	10280	383	POUND	STRUCTURAL STEEL MEMBERS, LEVEL 4	
514	00100	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
514	00200	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
514	00300	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
514	00400	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
514	00504	1	MANHOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
514	10000	3	EACH	FINAL INSPECTION REPAIR	
516	13600	5	SO FT	1" PREFORMED EXPANSION JOINT FILLER	
516	31000	145	FT	JOINT SEALER	
516	46701	4	EACH	RESET BEARING, AS PER PLAN (R-200)	55
516	46701	3	EACH	RESET BEARING, AS PER PLAN (NORTH PIER 2)	55
516	46701	3	EACH	RESET BEARING, AS PER PLAN (SOUTH PIER 2)	55
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55

WAY-30-2135 (8502374), L050 FUNDING

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
202	11301	10	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
202	98200	143	FT	REMOVAL MISC.: RUBBER SEAL	54
509	10000	597	POUND	EPOXY COATED REINFORCING STEEL	
510	10000	68	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	34450	2	CU YD	CLASS S CONCRETE, MISC.: REPAIR	55
511	71100	8	CU YD	CONCRETE, MISC.: CLASS C CONCRETE, MEDIAN WALL	55
512	10100	609	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10400	1237	SO YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
516	13600	5	SO FT	1" PREFORMED EXPANSION JOINT FILLER	
516	31000	143	FT	JOINT SEALER	

DESIGN FILE: I:\projects\77449\structures\strsum.dgn  
 WORKSTATION: juzwik  
 MODELNAME: Design  
 DATE: 12/23/2010

DESIGN AGENCY  
 ODOT DISTRICT THREE  
 OFFICE OF PRODUCTION

DATE  
 04/10  
 REVIEWED  
 RDN  
 DATE  
 GTS  
 GTS  
 CHECKED  
 CAL

STRUCTURE SUMMARY

WAY-30-19.81  
 WAY-172-0.00



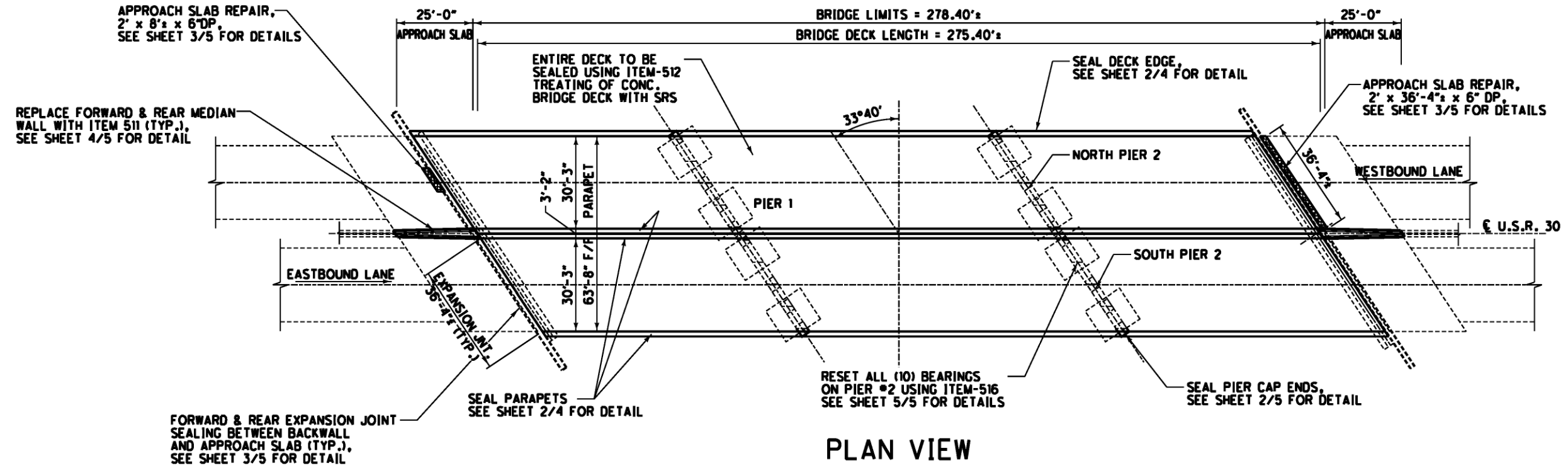
WAY-172-0020 (8502455), L050 FUNDING

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REFERENCE SHEET
201	11000	LUMP		CLEARING AND GRUBBING	
202	11300	1	CU YD	PORTIONS OF STRUCTURE REMOVED (PARAPET)	
202	11301	2	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
509	10000	95	POUND	EPOXY COATED REINFORCING STEEL	
511	71100	2	CU YD	CONCRETE, MISC.: BACKWALL REPAIR	55
SPECIAL	51160000	992	SO YD	BRIDGE DECK GROOVING	55
512	10100	1255	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	46701	3	EACH	RESET BEARING, AS PER PLAN	55
516	47001	LUMP	CU YD	JACKING AND TEMPORARY SUPPORT OR SUPERSTRUCTURE, AS PER PLAN	55
517	72751	763	FT	RAILING (THRIE BEAM RETROFIT), AS PER PLAN	55
621	54000	11	EACH	RAISED PAVEMENT MARKER REMOVED	
847	10201	992	SO YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY, AS PER PLAN (2" THICK)	55
847	20201	25	CU YD	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
847	30000	LUMP		TEST SLAB	
847	30401	992	SO YD	EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (2" NOMINAL THICKNESS)	55
847	50000	27	SO YD	HAND CHIPPING	

DESIGN FILE: i:\projects\77449\structures\strsum.dgn  
 WORKSTATION: juzwik  
 MODELNAME: Design  
 DATE: 12/23/2010

DESIGN AGENCY <b>DISTRICT THREE</b> OFFICE OF PRODUCTION	DATE	04/10
	REVISION	RDN
DESIGN GTS	REVISION	REVISED
	DESIGNED	CAL
<b>STRUCTURE SUMMARY</b>		
WAY-30-19.81 WAY-172-0.00		
59 70		

DESIGN FILE: I:\projects\77449\structures\Wayne\Way302126sd.dgn  
 WORKSTATION: sjzwik DATE: 12/23/2010 MODELNAME: Default



PLAN VIEW

ITEM	QUANTITY	UNIT	DESCRIPTION
202	10	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	145	FT	REMOVAL MISC.: RUBBER SEAL
509	597	POUND	EPOXY COATED REINFORCING STEEL
510	68	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	2	CU YD	CLASS S CONCRETE, MISC.: REPAIR
511	8	CU YD	CONCRETE, MISC.: CLASS C CONCRETE, MEDIAN WALL
512	876	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	1851	SO YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS
516	5	SO FT	1" PREFORMED EXPANSION JOINT FILLER
516	145	FT	JOINT SEALER

NOTES:

1. GUARDRAIL NOT SHOWN.
2. PARAPETS, DECK EDGES AND PIER CAP ENDS SHALL BE SEALED WITH ITEM-512 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). SEE SHEET 2/5 FOR DETAILS.
3. DECK SHALL BE SEALED WITH ITEM-512, TREATING OF CONCRETE BRIDGE DECK WITH SRS.

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

DESIGN AGENCY  
 ODOT DISTRICT THREE  
 OFFICE OF PRODUCTION

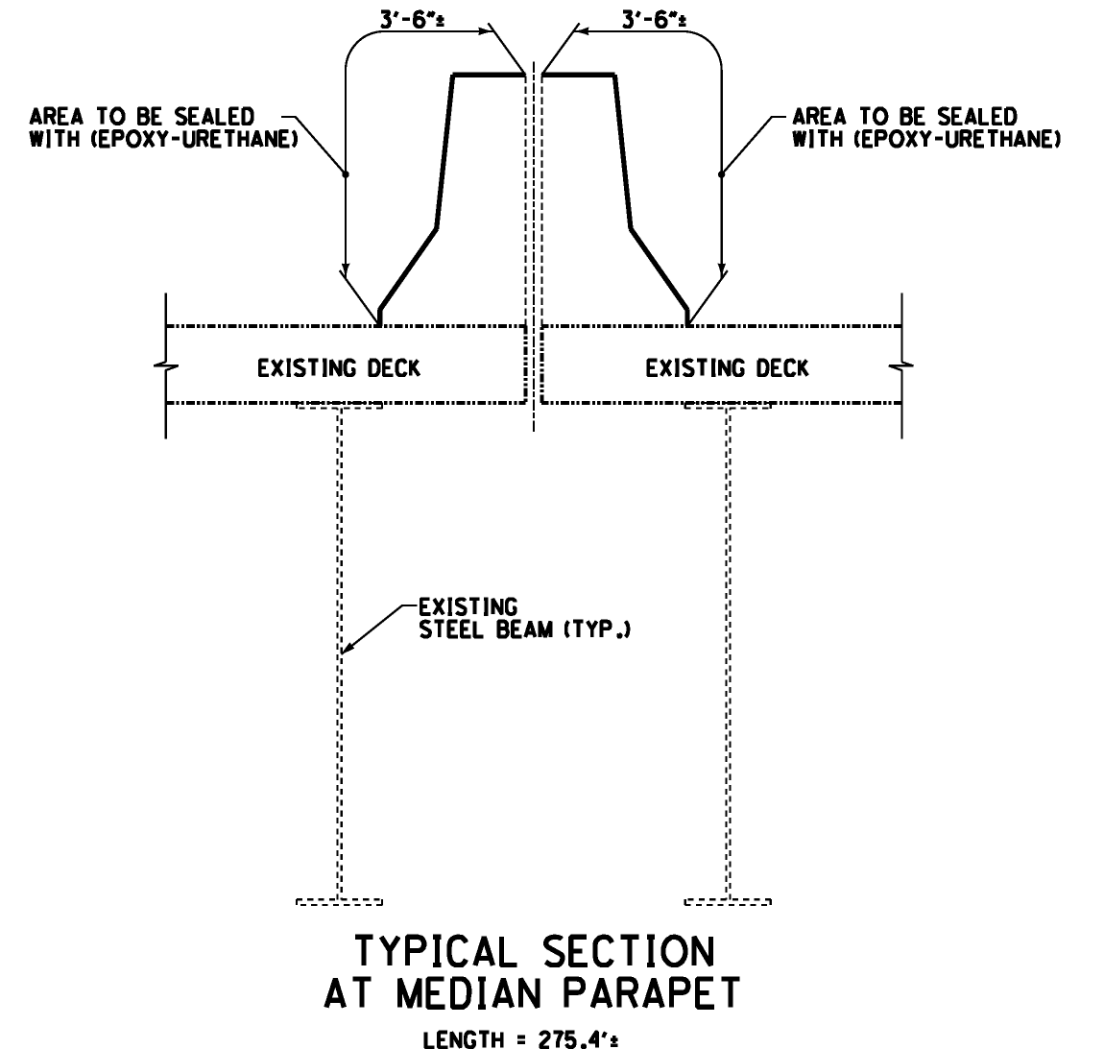
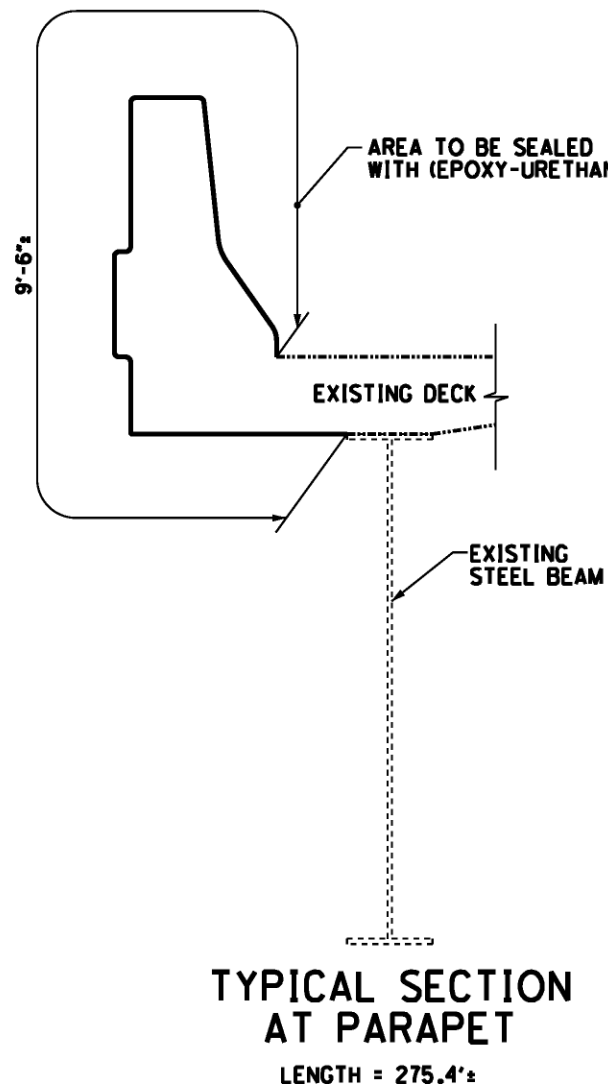
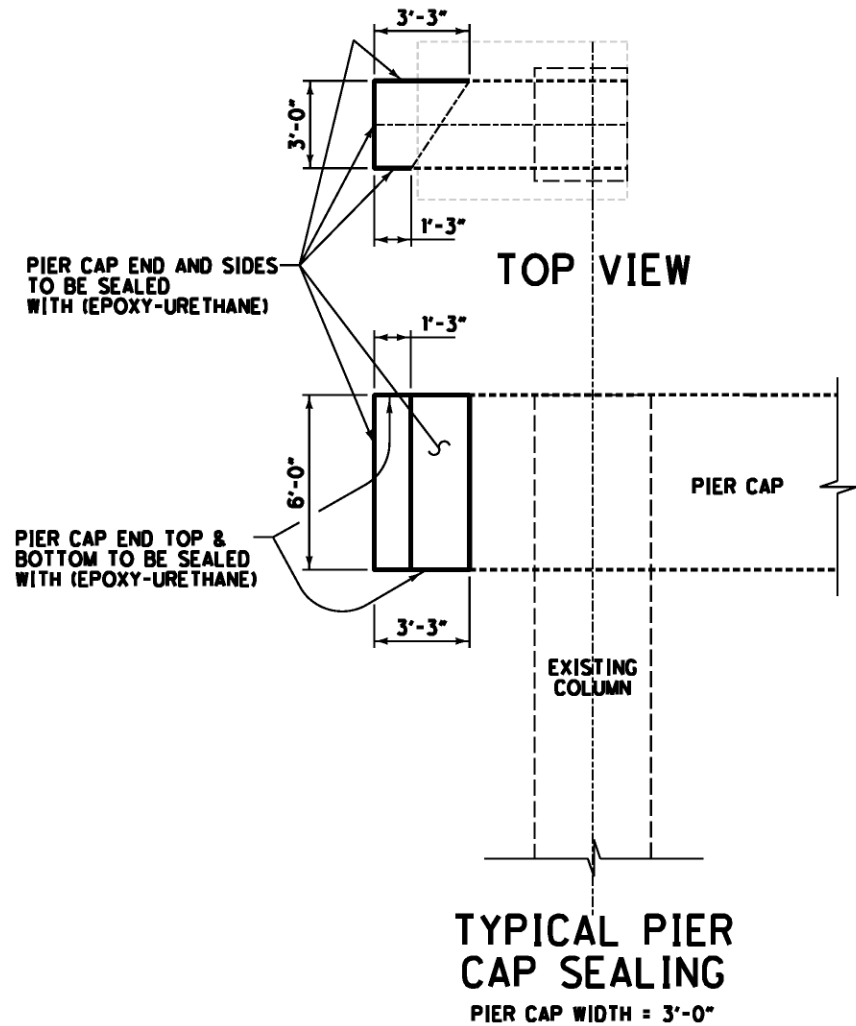
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 8502285

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PLAN VIEW  
 WAY-30-2126 OVER SUGAR CREEK

WAY-30-19.81  
 WAY-172-0.00

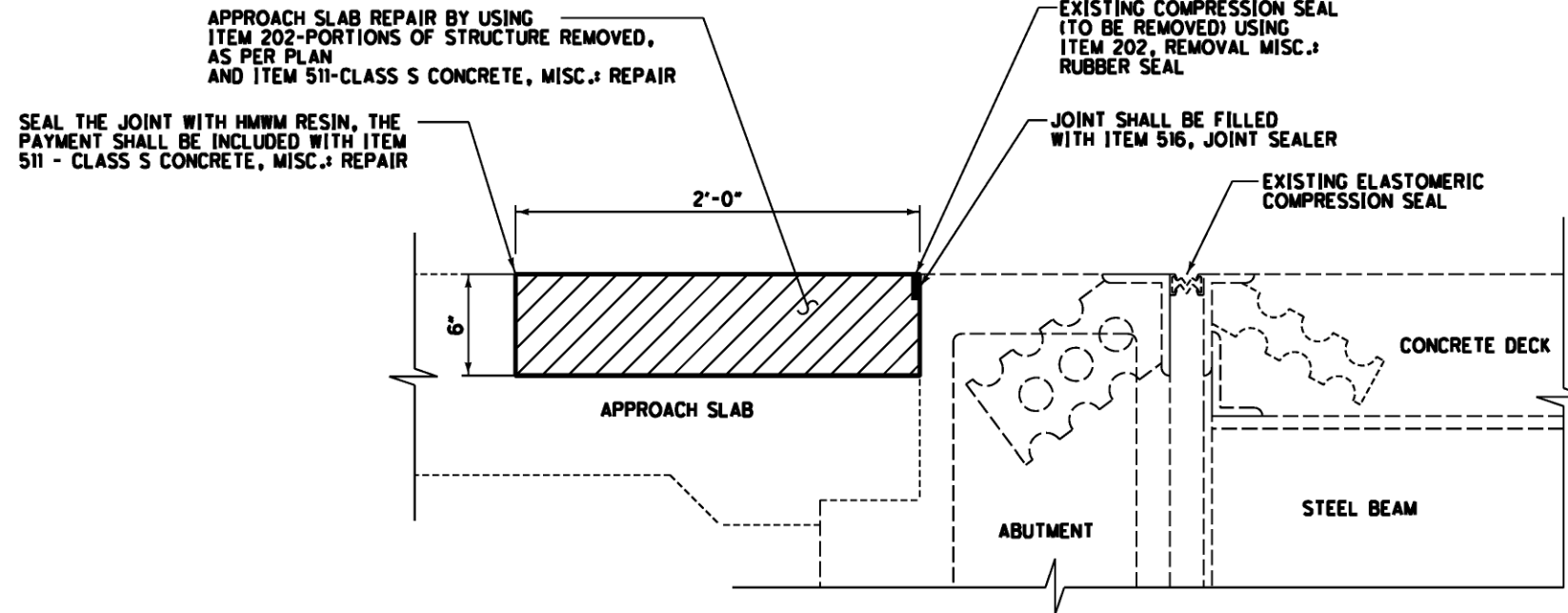
1 / 5  
 68  
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ITEM	QUANTITY	UNIT	DESCRIPTION
512	822	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

- NOTES:**
1. GUARDRAIL NOT SHOWN.
  2. SEAL PIER CAP ENDS, DECK EDGES AND PARAPETS.

ALL QUANTITIES CARRIED TO SHEET 1/4.



**APPROACH SLAB REPAIR DETAIL**

EXPANSION JOINT LENGTH = 36'-4" (4 JOINTS TO REPAIR)  
 REAR LEFT APPROACH SLAB PATCH = 2'W x 8'L x 6"D  
 FORWARD LEFT APPROACH SLAB PATCH = 2'W x 36'-4"L x 6"D

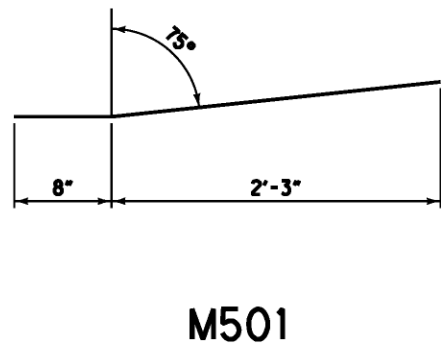
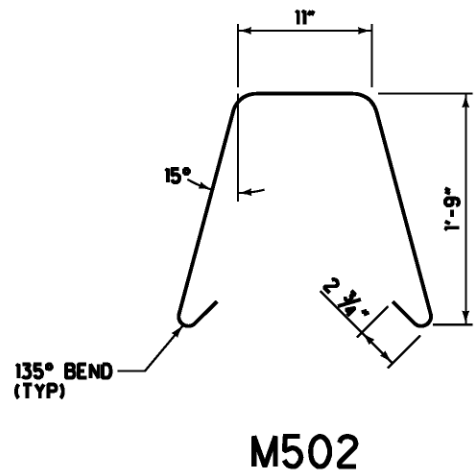
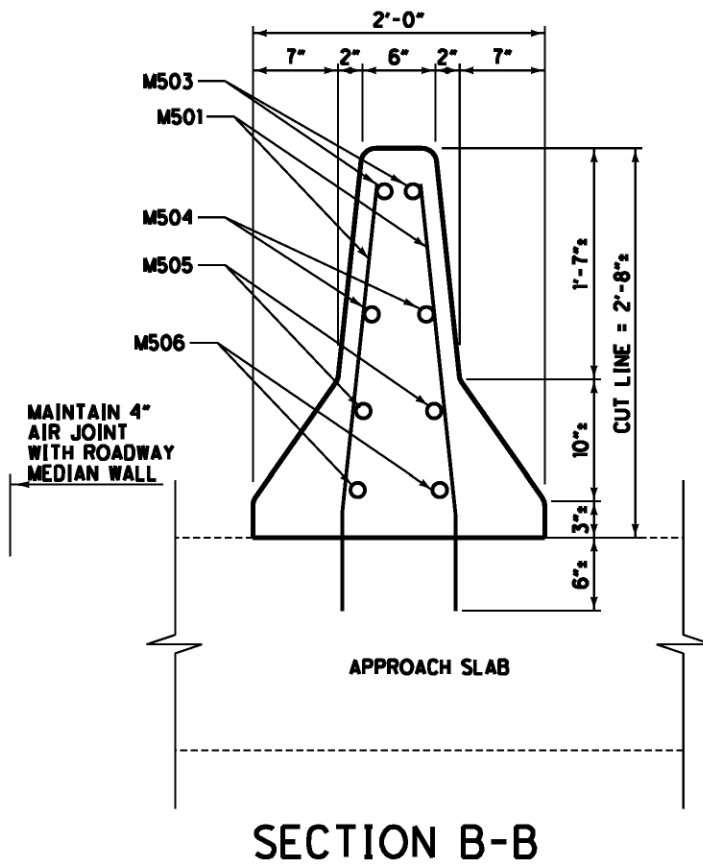
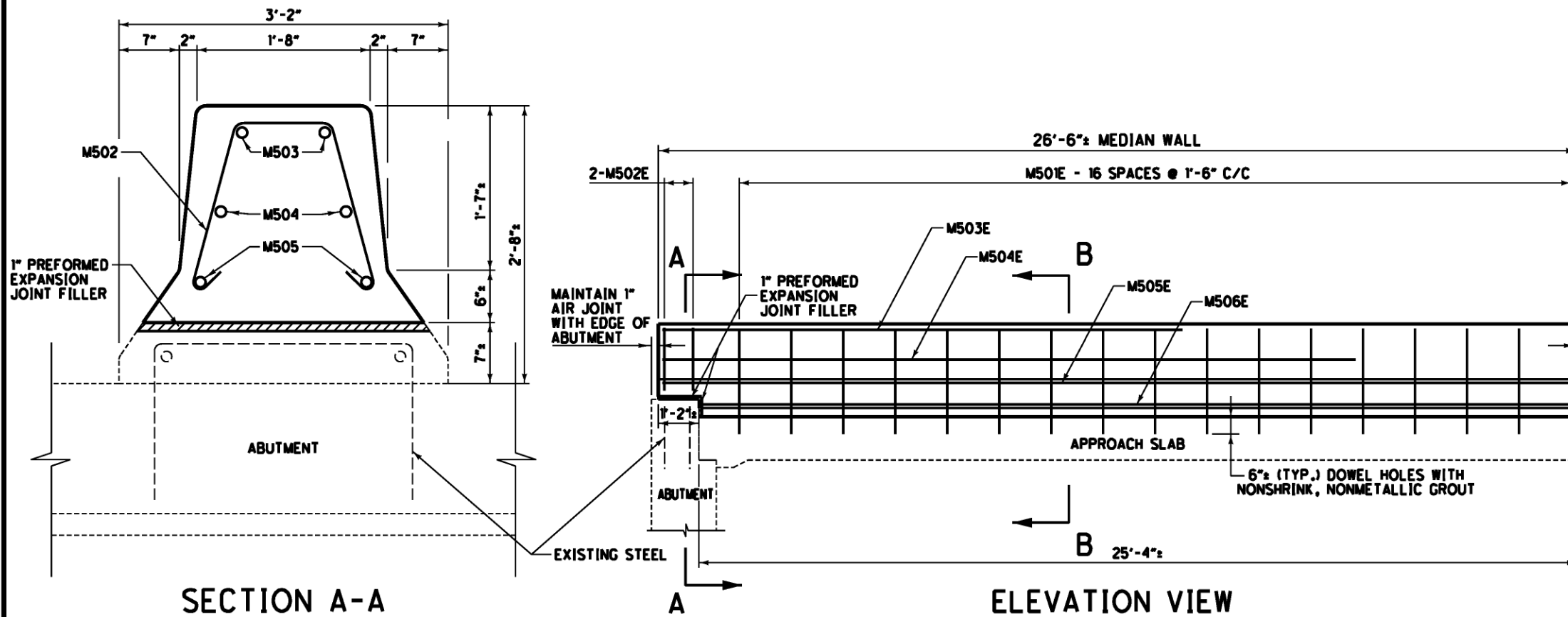
ITEM	QUANTITY	UNIT	DESCRIPTION
202	145	FT	REMOVAL MISC.: RUBBER SEAL
202	2	CU YD	PORIONS OF STURCTURE REMOVED, AS PER PLAN
511	2	CU YD	CLASS S CONCRETE, MISC.: REPAIR
516	145	FT	JOINT SEALER

ALL QUANTITIES CARRIED TO SHEET 1/4.

**NOTES:**

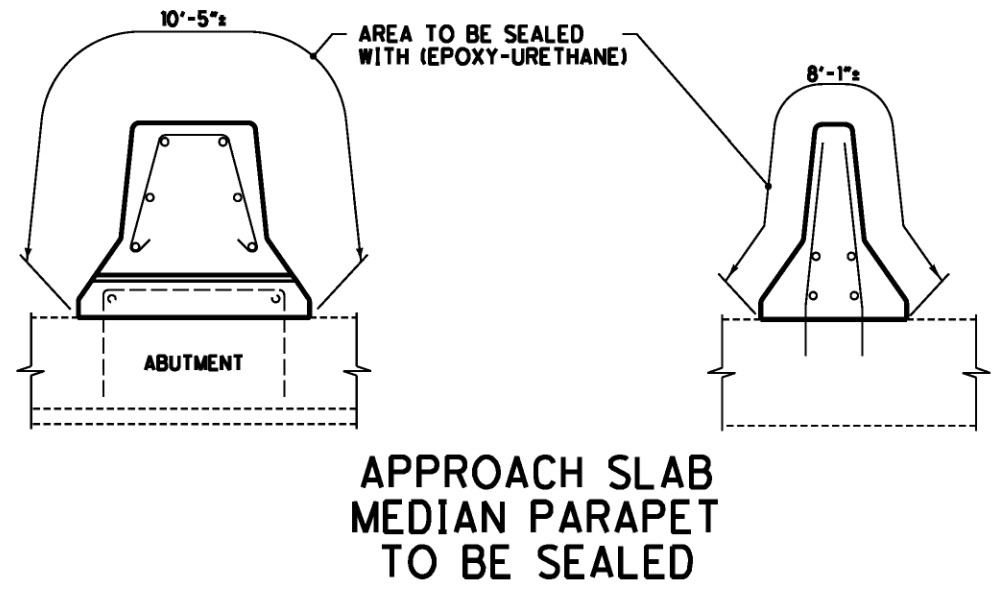
1. GUARDRAIL NOT SHOWN.
2. PRIOR TO SEALING THE EXPANSION JOINT USING ITEM 516 ON BOTH STRUCTURES, THE EXISTING COMPRESSION/RUBBER SEAL SHALL BE REMOVED USING ITEM 202 REMOVAL MISC.: RUBBER SEAL.

DESIGN FILE: I:\projects\77449\structures\Wayne\Way302126sd.dgn  
 WORKSTATION: sjuzwik DATE: 12/23/2010 MODELNAME: Default



REINFORCING STEEL LIST (EPOXY COATED)

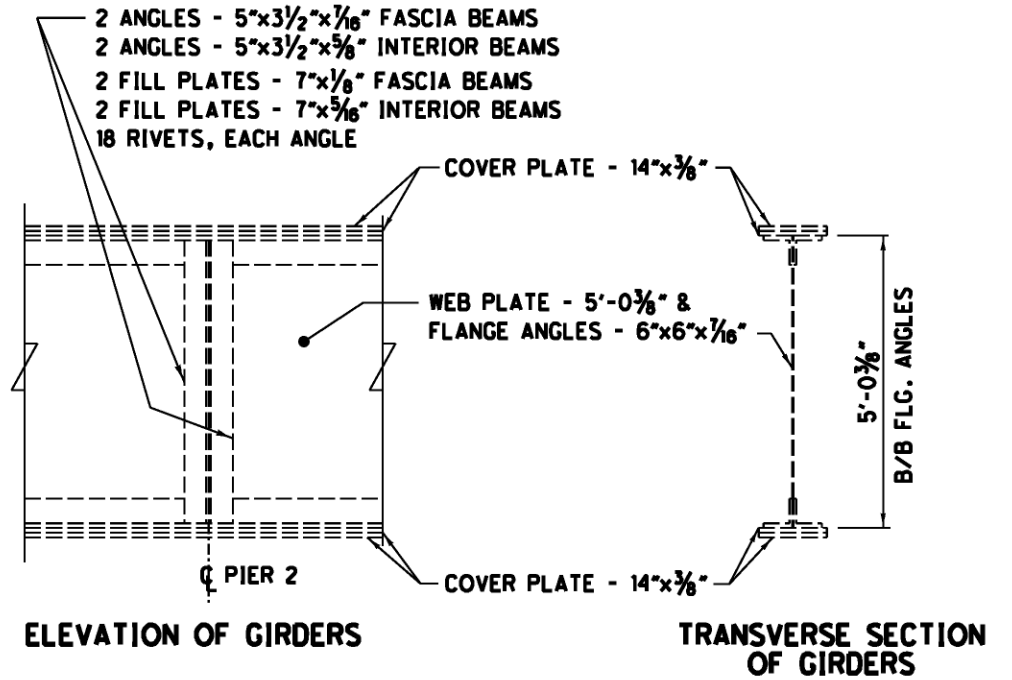
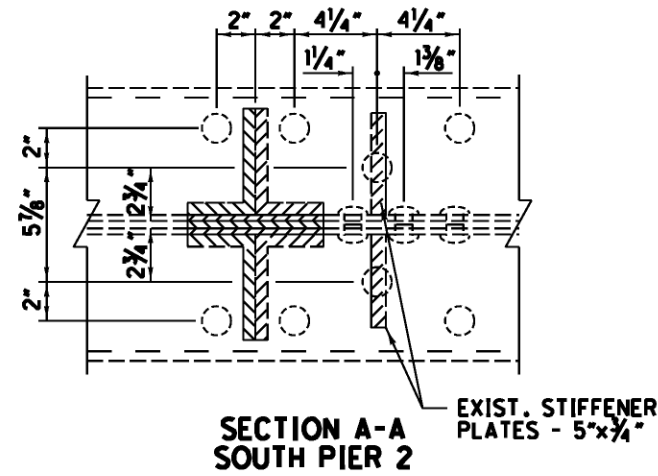
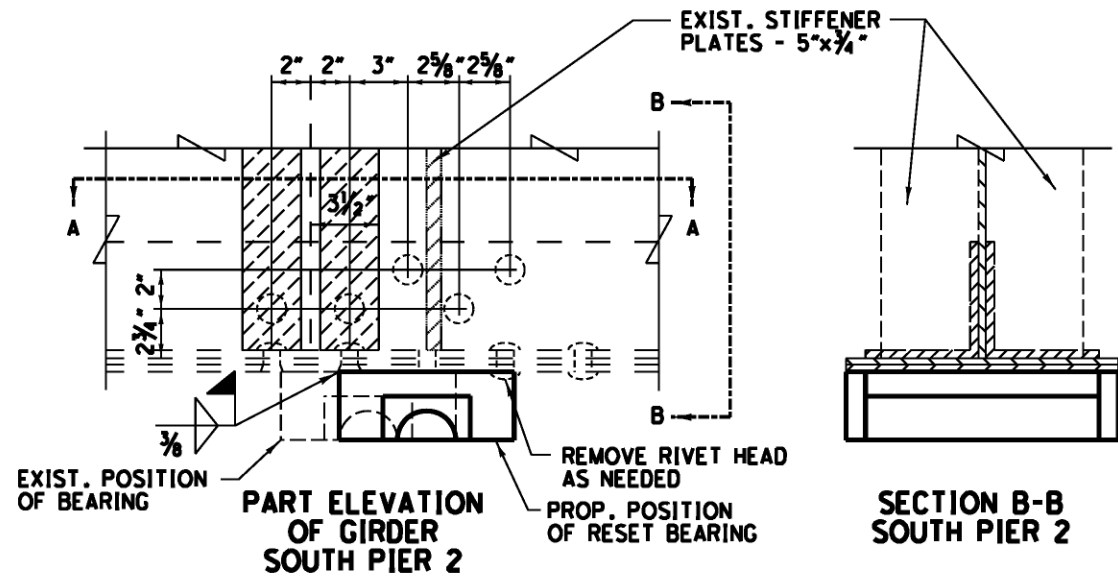
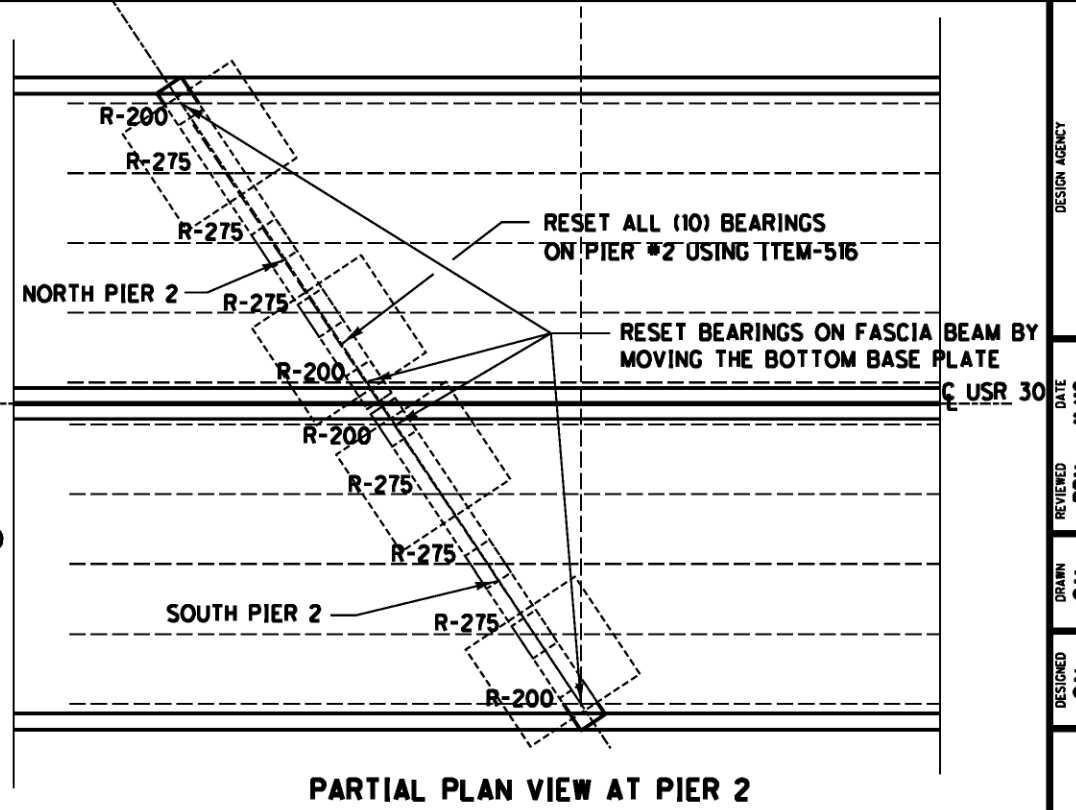
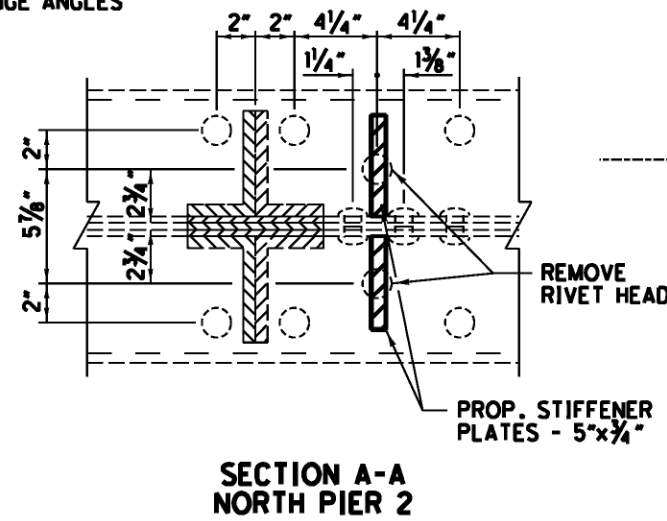
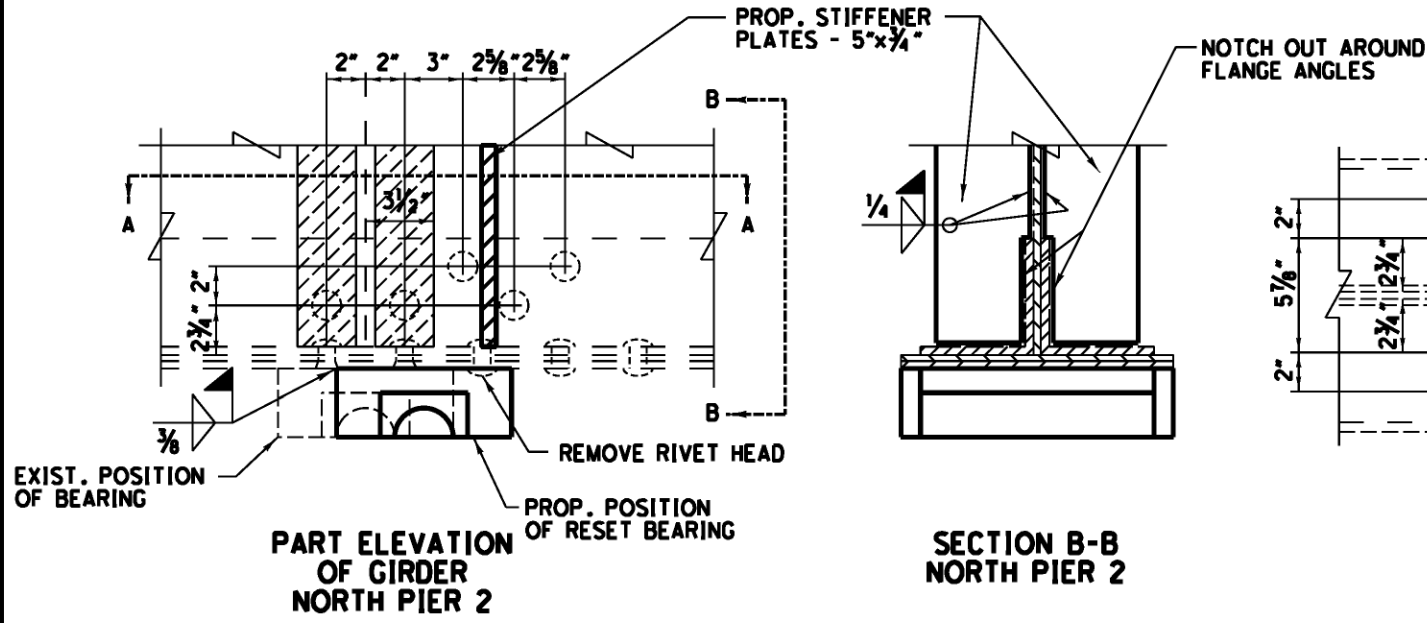
MEDIAN BARRIER WALL				
MARK	NO.	LENGTH	WEIGHT	SHAPE
M501	68	3'-0"	214	B
M502	4	5'-3"	22	B
M503	4	15'-0"	63	S
M504	4	20'-0"	84	S
M505	4	26'-0"	109	S
M506	4	24'-11"	105	S
TOTAL			597	



ITEM	QUANTITY	UNIT	DESCRIPTION
202	8	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
509	597	POUND	EPOXY COATED REINFORCING STEEL
510	68	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	8	CU.YD	CONCRETE, MISC. CLASS C CONCRETE, MEDIAN WALL
512	54	SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
516	5	SO FT	1" PREFORMED EXPANSION JOINT FILLER

- NOTES:
- GUARDRAIL NOT SHOWN.
  - THE MEDIAN WALL ON THE APPROACH SLABS SHALL BE REMOVED WITH ITEM 202 PORTIONS OF STRUCTURE REMOVED, APP. THE NEW MEDIAN WALL SHALL BE CONSTRUCTED AS DETAILED WITH ITEMS 509, 510, 511 & 516.
  - SEAL APPROACH SLAB MEDIAN PARAPETS.

ALL QUANTITIES CARRIED TO SHEET 1/4.



ITEM	QUANTITY	UNIT	DESCRIPTION
513	383	POUND	STRUCTURAL STEEL MEMBERS, LEVEL 4
514	LUMP		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	LUMP		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	LUMP		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
514	1	MANHOUR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL
514	3	EACH	FINAL INSPECTION REPAIR
516	4	EACH	RESET BEARING, AS PER PLAN (R-200)
516	3	EACH	RESET BEARING, AS PER PLAN (NORTH PIER 2)
516	3	EACH	RESET BEARING, AS PER PLAN (SOUTH PIER 2)
516	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET

NOTES:

1. THE NORTH AND SOUTH PIER 2 FASCIA BEAMS (R-200) BEARINGS SHALL BE RESET BY MOVING THE BOTTOM BASE PLATE. THE INTENT IS TO MOVE THE BASE PLATE FOR THE BEARINGS THAT HAVE ROOM ON THE PIER CAP WITHOUT OVERHANGING AT A TOTAL OF 4 LOCATIONS.
2. THE SOUTH PIER 2 BEARINGS (EXCLUDING THE 2 FASCIA BEAMS) SHALL BE RESET AS DETAILED ABOVE AT A TOTAL OF 3 LOCATIONS. THE NORTH PIER 2 BEARINGS (EXCLUDING THE 2 FASCIA BEAMS) SHALL BE RESET AND NEW STIFFENERS SHALL BE INSTALLED AS DETAILED ABOVE AT A TOTAL OF 3 LOCATIONS.
3. AFTER RIVET HEAD IS REMOVED AND NEW STIFFENER IS IN PLACE, COVER RIVET HOLE WITH WELD METAL TO MAKE WATER TIGHT.
4. THE PROPOSED STIFFENERS, RELOCATED INTERIOR BEAM BEARINGS AND ANY OF THE EXISTING INTERIOR BEAMS WITH A DAMAGED PAINT COATING SHALL BE PAINTED USING ITEMS 514. THE FINISH COAT COLOR SHALL CLOSELY MATCH THE EXISTING COLOR.
5. WHILE A BEAM IS JACKED AND TEMPORARILY SUPPORTED, THE LANE ABOVE THE BEAM SHALL BE CLOSED TO TRAFFIC. TRAFFIC SHOULD BE SHIFTED TO THE LANE FOR WHICH THE BEAMS ARE NOT BEING SUPPORTED. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. PAYMENT FOR THE LANE CLOSURES SHALL BE INCLUDED WITH MAINTENANCE OF TRAFFIC.