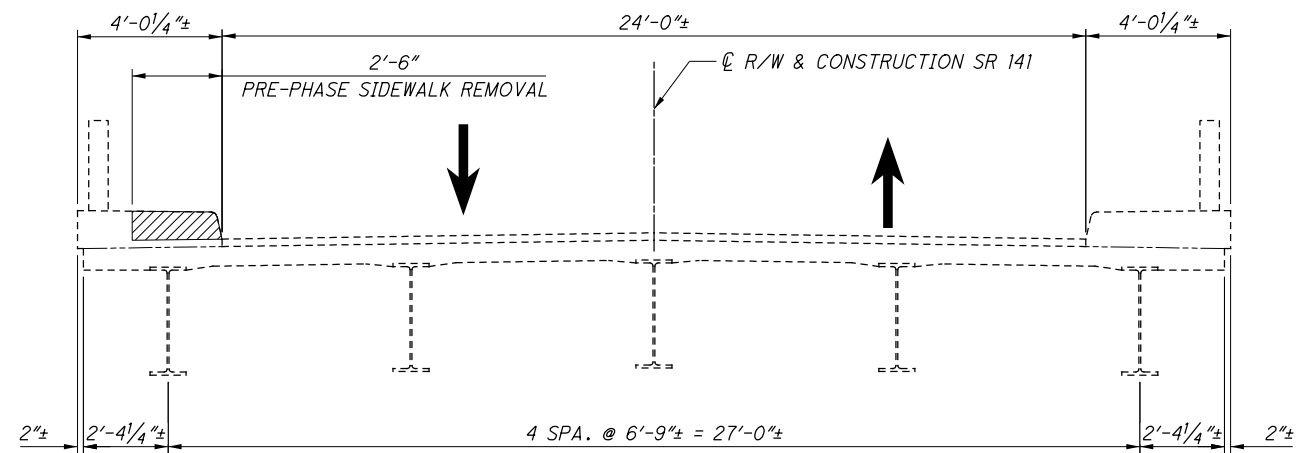


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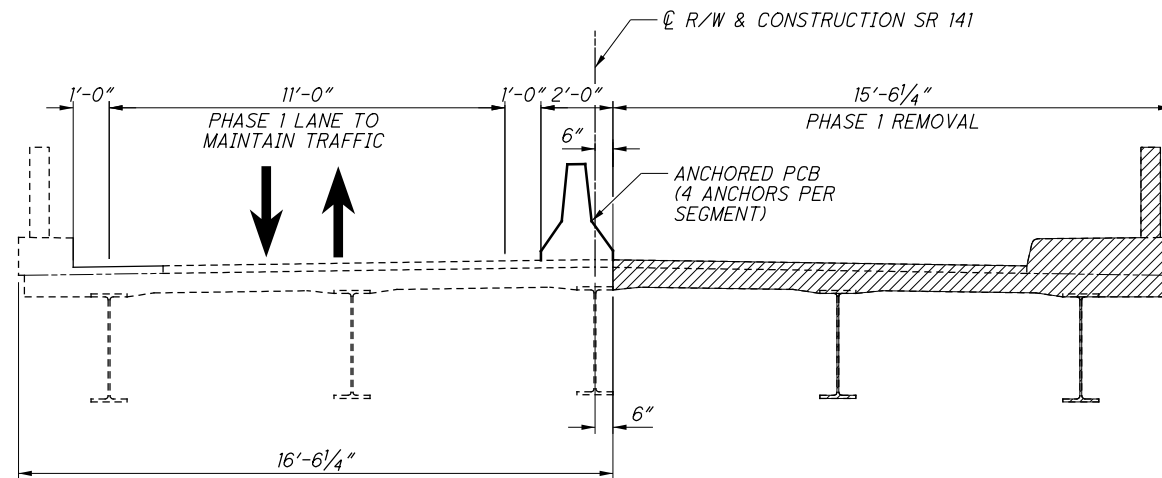
LAW-141-1298 ESTIMATED QUANTITIES						MADE BY CCJ	CHECKED BY BTJ		
						DATE 10/10/18	DATE 10/17/18		
ITEM	ITEM EXT.	TOTAL	UNITS	DESCRIPTION	LAW-141-1298				SHT. REF.
					ABUTS.	PIERS	SUPER.	GENERAL	
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	3
202	22900	70	SQ YD	APPROACH SLAB REMOVED				70	
202	23500	595	SQ YD	WEARING COURSE REMOVED				595	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	3
503	21100	91	CU YD	UNCLASSIFIED EXCAVATION	91				
509	10000	62687	LB	EPOXY COATED REINFORCING STEEL	8991		53696		
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2				3
511	34446	242	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			242		
511	43510	59	CU YD	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	59				
512	10100	130	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	43		87		
512	33000	41	SQ YD	TYPE 2 WATERPROOFING	41				
513	10241	207000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN			207000		3, 4, 5
513	20000	3228	EACH	WELDED STUD SHEAR CONNECTORS			3228		
516	13600	3	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	3				
516	13900	90	SQ FT	2" PREFORMED EXPANSION JOINT FILLER	90				
516	14020	97	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	97				
516	44100	4	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (13"x15"x2.55") AND LOAD PLATE (14"x16"x1.5") (NEOPRENE)	4				
516	44100	4	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (13"x15"x2.55") AND LOAD PLATE (14"x16"x1.625") (NEOPRENE)	4				
516	44200	8	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (16.5"x15.5"x3.12") AND LOAD PLATE (17.5"x17.5"x1.5") (NEOPRENE)		8			
517	70000	406	FT	RAILING (TWIN STEEL TUBE)			406		
518	21200	49	CU YD	POROUS BACKFILL WITH GEOTEXTILE FABRIC	49				
SPECIAL	518E22300	488	FT	SPECIAL - STEEL DRIP STRIP			488		20
518	40000	65	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	65				
518	40010	84	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	84				
526	25010	181	SQ YD	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				181	
526	90010	65	FT	TYPE A INSTALLATION				65	
613	41201	154	CU YD	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN	154				3

 8415 Plummer Place, Suite 300 Columbus, Ohio 43240	DESIGN AGENCY PRIMEVU 8415 Plummer Place, Suite 300 Columbus, Ohio 43240
DESIGNED AMT CHECKED CCJ	DRAWN AMT REVISED
REVIEWED EDW STRUCTURE FILE NUMBER 4402530	DATE 7/29/2019
ESTIMATED QUANTITIES BRIDGE NO. LAW-141-1298 SR 141 OVER SYMMES CREEK	
LAW-141-12.98 PID No. 96285	
6 / 28	
25 52	

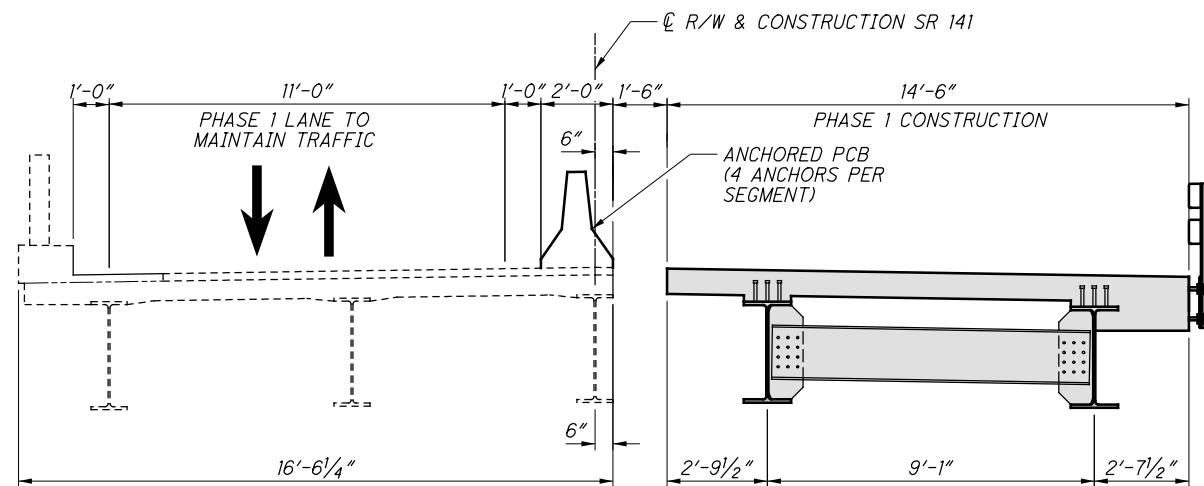
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PRE-PHASE 1 REMOVAL



PHASE 1 REMOVAL



PHASE 1 CONSTRUCTION

PRE-PHASE 1 REMOVAL:

1. REMOVE 2'-6" PORTION OF EXISTING NORTH SIDEWALK AS SHOWN. REMOVAL USING FLAGGERS PER STANDARD DRAWING MT-97.10. ADD TEMPORARY BRIDGE PAVEMENT IN REMOVAL AREA. PAYMENT FOR SIDEWALK REMOVAL SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN.

PHASE 1 REMOVAL:

1. INSTALL PORTABLE BARRIER ON EXISTING STRUCTURE IN THE LOCATION SHOWN.
2. SHIFT TRAFFIC TO THE NORTH SIDE OF THE EXISTING STRUCTURE AND MAINTAIN ONE-LANE, TWO-WAY TRAFFIC.
3. REMOVE THE SOUTH PORTION OF SUPERSTRUCTURE AND APPROACH SLABS TO THE LIMITS SHOWN.
4. REMOVE THE SOUTH PORTION OF THE EXISTING SUBSTRUCTURES TO THE LIMITS SHOWN IN THE PLANS.

PHASE 1 CONSTRUCTION:

1. MAINTAIN ONE-LANE, TWO-WAY TRAFFIC ON THE NORTH SIDE OF THE EXISTING STRUCTURE AS SHOWN.
2. CONSTRUCT THE SOUTH PORTIONS OF THE SUBSTRUCTURES AS SHOWN IN THE PLANS.
3. CONSTRUCT THE SOUTH PORTIONS OF THE SUPERSTRUCTURE AND APPROACH SLABS TO THE LIMITS SHOWN.

NOTES:

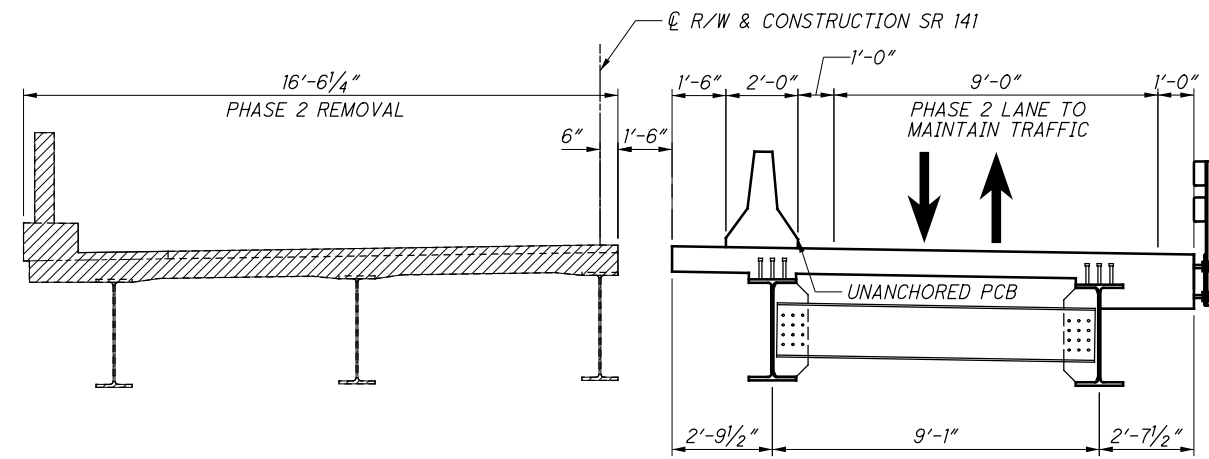
1. PAYMENT FOR PCB INCLUDED IN ROADWAY GENERAL SUMMARY.
2. FOR ADDITIONAL PORTABLE CONCRETE BARRIER NOTES, SEE STANDARD DRAWING PCB-91.

LEGEND:

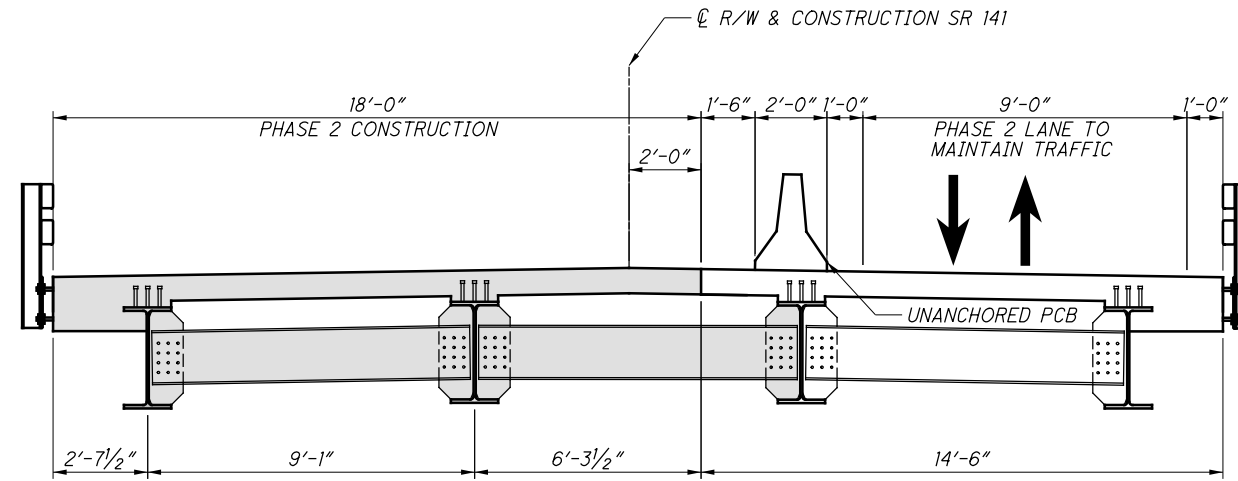
- = LIMITS OF REMOVAL
- = NEW CONSTRUCTION

<p>LAW-141-12.98</p> <p>PID No. 96285</p>	<p>PART WIDTH CONSTRUCTION DETAILS - PHASE 1</p> <p>BRIDGE NO. LAW-141-1298</p> <p>SR 141 OVER SYMMES CREEK</p>	<p>DESIGNED CCJ</p> <p>CHECKED AMT</p>	<p>DRAWN CCJ</p> <p>REVISED</p>	<p>REVIEWED EDW</p> <p>STRUCTURE FILE NUMBER 4402530</p>	<p>DATE 7/29/2019</p>	<p>DESIGN AGENCY PRIMEV 8415 Pulaski Place, Suite 300 Columbus Ohio 43240</p>
<p>7 / 28</p>	<p>26</p> <p>52</p>					

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PHASE 2 REMOVAL



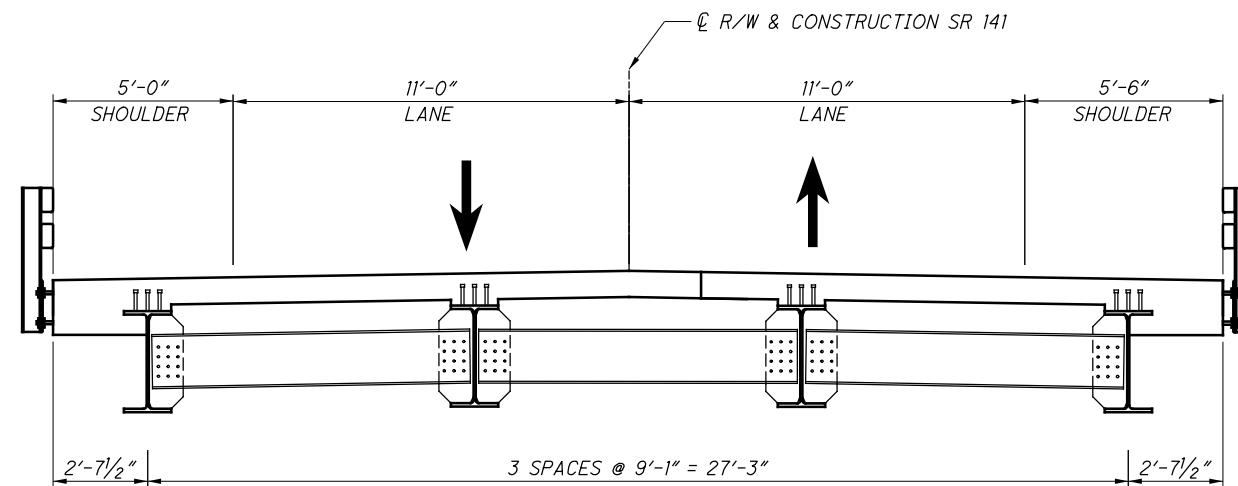
PHASE 2 CONSTRUCTION

PHASE 2 REMOVAL:

1. INSTALL PORTABLE BARRIER ON PROPOSED STRUCTURE IN THE LOCATION SHOWN.
2. SHIFT TRAFFIC TO THE SOUTH SIDE OF THE BRIDGE AND MAINTAIN ONE-LANE, TWO-WAY TRAFFIC.
3. REMOVE THE NORTH PORTION OF THE EXISTING SUPERSTRUCTURE AND APPROACH SLABS TO THE LIMITS SHOWN.
4. REMOVE THE NORTH PORTION OF THE EXISTING SUBSTRUCTURES AS SHOWN IN THE PLANS.

PHASE 2 CONSTRUCTION:

1. MAINTAIN ONE-LANE, TWO-WAY TRAFFIC ON THE SOUTH SIDE OF THE BRIDGE AS SHOWN.
2. CONSTRUCT THE NORTH PORTIONS OF THE SUBSTRUCTURES TO THE LIMITS SHOWN IN THE PLANS.
3. CONSTRUCT THE REMAINDER OF THE NEW SUPERSTRUCTURE AND APPROACH SLABS.



FINAL TRANSVERSE SECTION

NOTES:

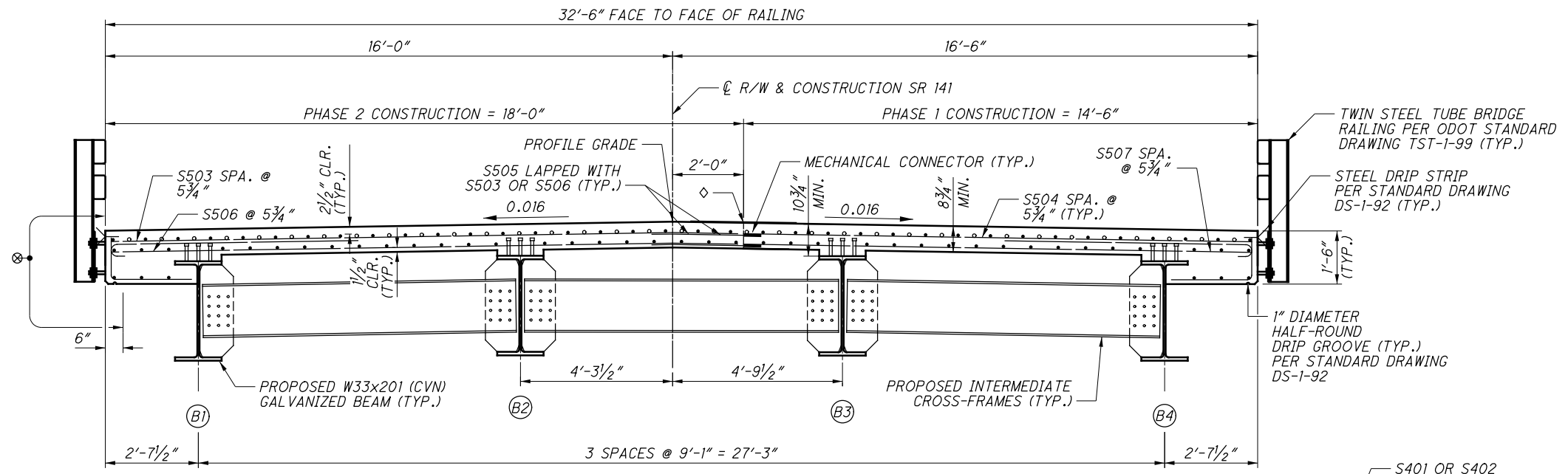
1. PAYMENT FOR PCB INCLUDED IN ROADWAY GENERAL SUMMARY.
2. FOR ADDITIONAL PORTABLE CONCRETE BARRIER NOTES, SEE STANDARD DRAWING PCB-91.

LEGEND:

- = LIMITS OF REMOVAL
- = NEW CONSTRUCTION

DESIGN AGENCY PRIMEV 845 Pulse Plaza, Suite 300 Columbus Ohio 43240	DATE 7/29/2019	REVIEWED EDW	STRUCTURE FILE NUMBER 4402530	DRAWN CCJ	REVISIONS REVISED
PART WIDTH CONSTRUCTION DETAILS - PHASE 2 BRIDGE NO. LAW-141-1298 SR 141 OVER SYMMES CREEK					
LAW-141-12.98 PID No. 96285					
8 / 28					
27 52					

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LEGEND:

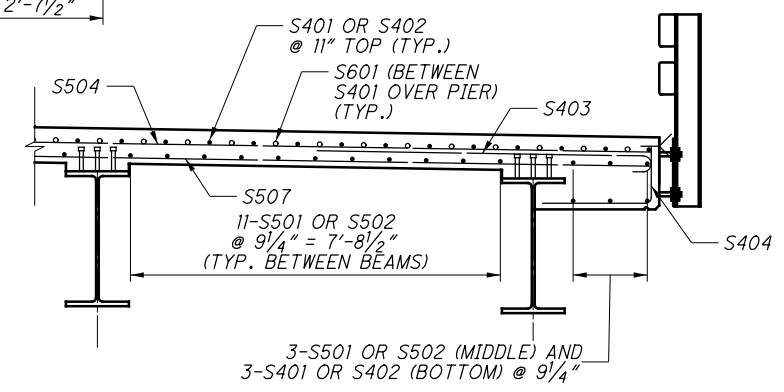
- ⊗ SEALING OF CONCRETE SURFACES (EPOXY URETHANE) (TYP.)
- ◇ 2'-0" WIDE HMWM SEAL OVER PHASE CONSTRUCTION JOINT

NOTES:

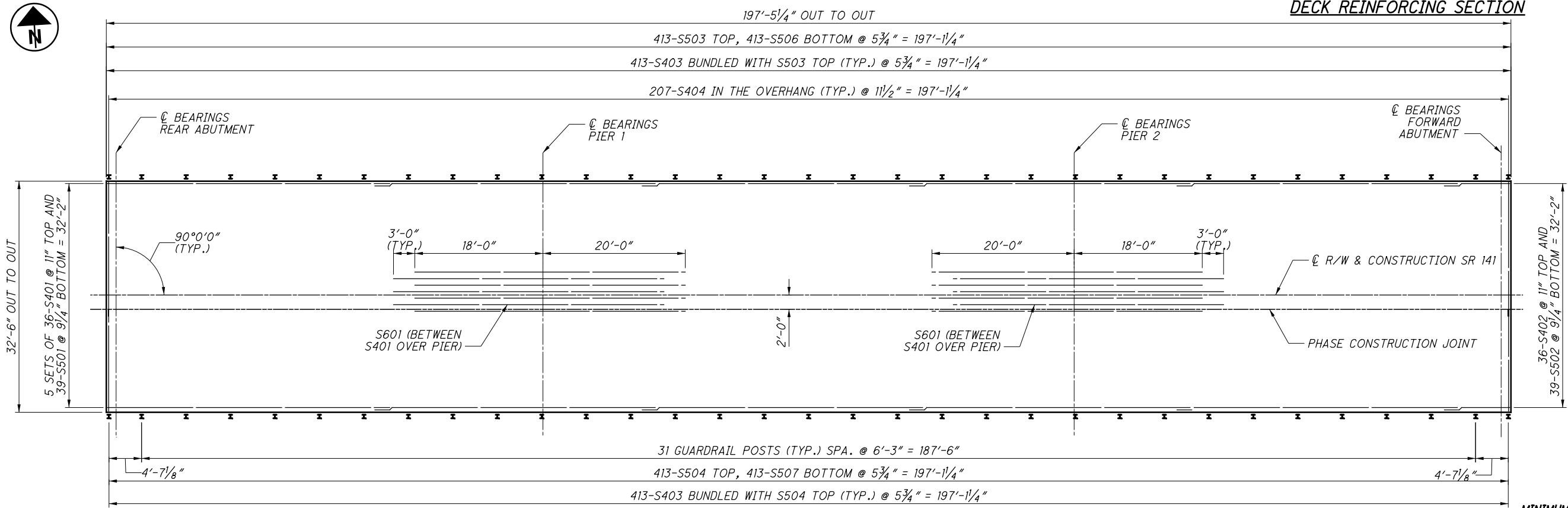
1. THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 2 INCHES AND A CONSTANT HAUNCH WIDTH BETWEEN THE EDGE TO EDGE OF EACH BEAM FLANGE. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.

 THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAD BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23.
2. WHERE A SHAPE OF PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01.
3. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE STANDARD DRAWING GSD-1-19.

TRANSVERSE SECTION



DECK REINFORCING SECTION

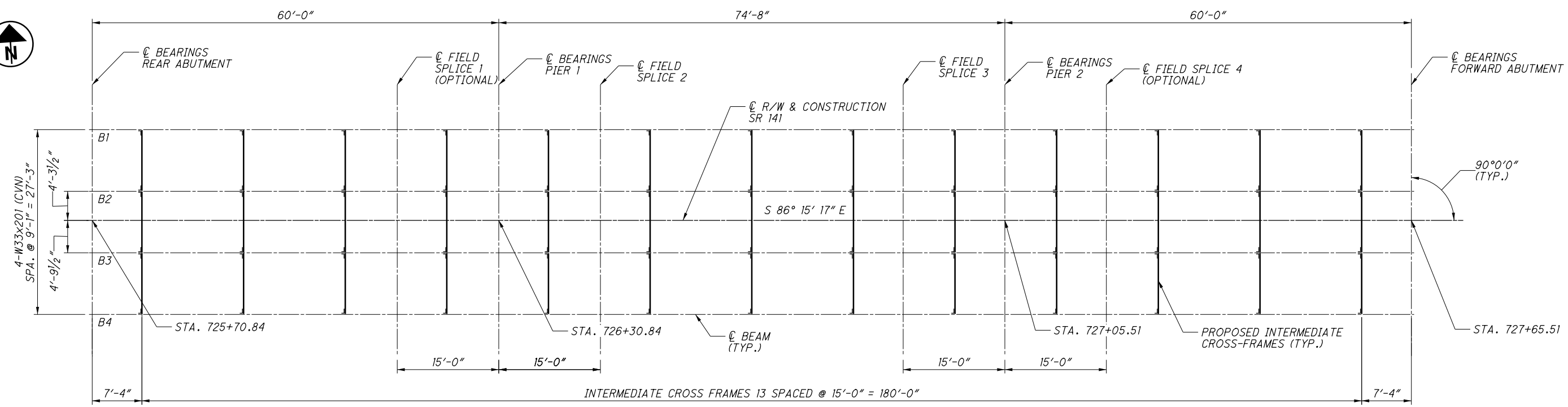


DECK PLAN

MINIMUM LAP LENGTHS:
 #4 BARS = 1'-11"
 #5 BARS = 2'-5"

 845 Pulaski Place, Suite 300 Columbus, Ohio 43240
DESIGN AGENCY PRIMEVU 845 Pulaski Place, Suite 300 Columbus, Ohio 43240
DESIGNED CCJ CHECKED AMT
DRAWN CCJ REVISED
REVIEWED EDW STRUCTURE FILE NUMBER 4402530
DATE 7/29/2019
TRANSVERSE SECTION AND DECK PLAN BRIDGE NO. LAW-141-1298 SR 141 OVER SYMMES CREEK
LAW-141-12.98 PID No. 96285
20/28
39 52

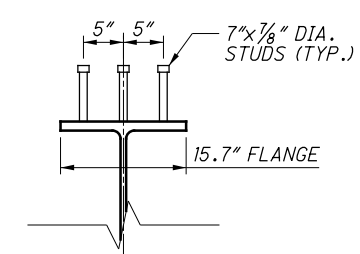
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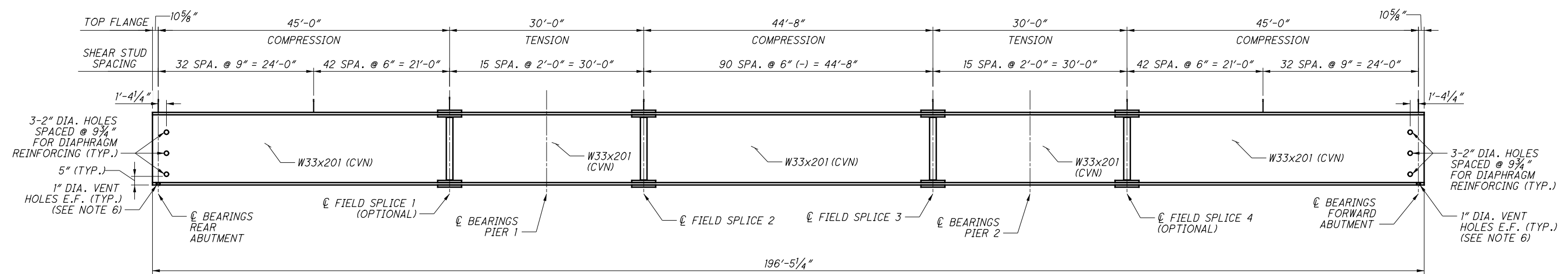
FRAMING PLAN

NOTES:

1. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709, GRADE 50, GALVANIZED.
3. WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN CMS 711.01.
4. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE STANDARD DRAWINGS GSD-1-96.
5. FOR SPLICE DETAILS, SEE SHEET 22/28.
6. FOR VENT HOLE LOCATIONS, SEE SHEET 26/28.



SHEAR STUD DETAIL



TYPICAL BEAM ELEVATION

 <small>8415 Pulaski Place, Suite 300 Columbus, Ohio 43240</small>																
FRAMING PLAN AND BEAM ELEVATION <small>BRIDGE NO. LAW-141-1298 SR 141 OVER SYMMES CREEK</small>																
LAW-141-12.98 <small>PID No. 96285</small>																
21 / 28 <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 40 </div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 52 </div>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><small>DESIGNED</small></td> <td style="width: 25%;"><small>AMT</small></td> <td style="width: 25%;"><small>CHECKED</small></td> <td style="width: 25%;"><small>CCU</small></td> </tr> <tr> <td><small>DRAWN</small></td> <td><small>AMT</small></td> <td><small>REVISED</small></td> <td></td> </tr> <tr> <td><small>REVIEWED</small></td> <td><small>EDW</small></td> <td><small>STRUCTURE FILE NUMBER</small></td> <td><small>4402530</small></td> </tr> <tr> <td><small>DATE</small></td> <td><small>7/29/2019</small></td> <td><small>DESIGN AGENCY</small></td> <td><small>PRIMEV</small></td> </tr> </table>	<small>DESIGNED</small>	<small>AMT</small>	<small>CHECKED</small>	<small>CCU</small>	<small>DRAWN</small>	<small>AMT</small>	<small>REVISED</small>		<small>REVIEWED</small>	<small>EDW</small>	<small>STRUCTURE FILE NUMBER</small>	<small>4402530</small>	<small>DATE</small>	<small>7/29/2019</small>	<small>DESIGN AGENCY</small>	<small>PRIMEV</small>
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<small>DRAWN</small>	<small>AMT</small>	<small>REVISED</small>														
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