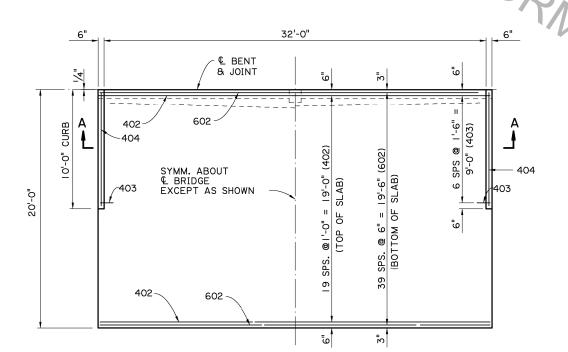
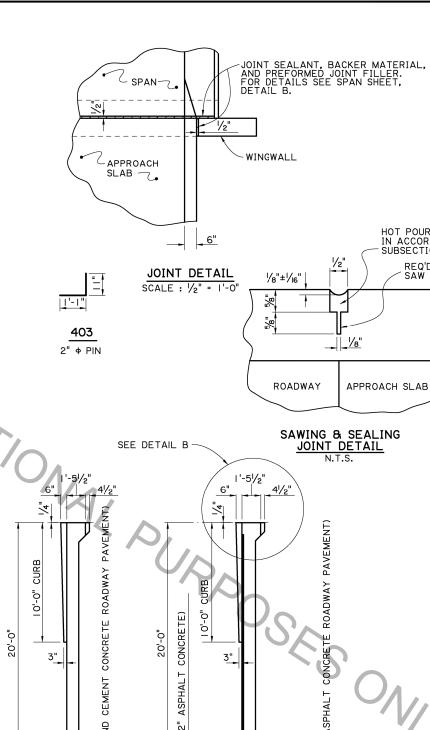


SECTION A-A SCALE : 1/4" = 1'-0"



PLAN SCALE : 1/4" = 1'-0"





SECTION ALONG & ROADWAY SCALE : $\frac{1}{4}$ " = 1'-0"

1'-2"

1'-0"

CONSTRUCTION JOINT

SEE STANDARD CP-OI

ESTIMATED QUANTITIES (ONE SLAB) BAR NO. UNIT TOTAL LENGTH 601 66 19'-7" 1292'-6" LONGIT. BOT. OF SLAB 602 40 32'-8" 1306'-8" TRANSV. BOT. OF SLAB TOTAL NO. 6 BARS = 2599'-2" = 3904 LBS. 646'-3" LONGIT. TOP OF SLAB 402 20 32'-8" 653'-4" TRANSV. TOP OF SLAB 403 | 14 | 2'-0" | 28'-0" | DOWELS IN CURB 404 | 2 | 9'-7" | 19'-2" | LONGIT. IN CURB TOTAL NO. 4 BARS = 1346'-9" = 900 LBS. O TOTAL DEFORMED REINFORCING STEEL = 4804 LBS.

CONCRETE APPROACH SLAB = 73.26 SQ.YDS. □ ASPHALT CONCRETE - 7.2 TONS ☑ SAW CUT & SEAL = 31 LIN. FT. O TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.

REQUIRED WHEN APPROACH SLAB IS ADJACENT TO ASPHALT CONCRETE PAVEMENT.
PAID FOR UNDER ITEM SUPERPAVE ASPHALTIC CONCRETE, AND SAWING AND SEALING TRANSVERSE JOINTS IN ASPHALT CONCRETE OVERLAY.

45°,

9"

© BENT

& JOINT

DETAIL B SCALE : 1/2" = 1'-0" 1/2" PREFORMED JOINT 1/2" 1'-0" 1/2"

> DETAIL A SCALE : 1/2" = 1'-0"

APPROACH SLAB NOTES:

OR

HOT POURED SEALANT IN ACCORDANCE WITH SUBSECTION 1005.02

REQ'D. SAW CUT

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

4th EDITION, WITH 2008 & 2009 INTERIMS.

MATERIAL ON END

BENT SHEAR KEY

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS AI. EXPOSED EDGES SHALL HAVE A $\frac{3}{4}$ " CHAMFER, UNLESS OTHERWISE NOTED.

ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE CONCRETE PAVEMENT USED FOR THE APPROACH ROADWAY PAVEMENT OR OVERLAY.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO THE FABRICATION ARE OUT-TO-OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS.

BEDDING MATERIAL: FOR DETAILS OF BEDDING MATERIAL AND UNDERDRAINS. SEE STANDARD DETAIL BD.2.10.1.0.07.

SAWING & SEALING: THE ASPHALT CONCRETE SHALL BE SAW CUT AT THE END OF THE CONCRETE APPROACH SLAB THE ENTIRE ROADWAY WIDTH

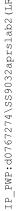
BASIS OF PAYMENT: ALL MATERIAL SHALL BE PAID FOR UNDER CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.

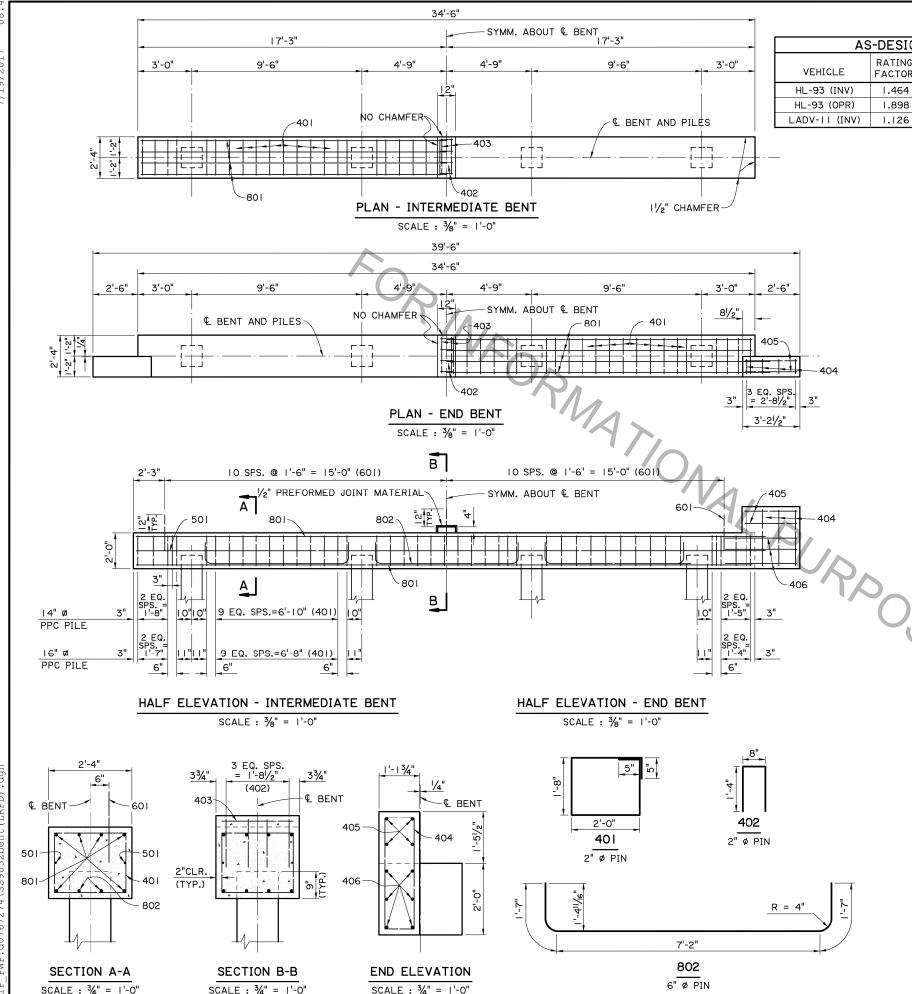
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SLAB

APPROACH SLAB
O" CONCRETE APPROACH SI
32'-O" CLEAR ROADWAY
CROSSING TWO WAY TANG
CASBR-90-32TWT-201-20SL

20'-0" 90°





AS-DESIGNED RATING RATING FACTOR NOTES 1.126 | MAGNIFICATION FACTOR = 1.3

05/17/17

9³/₄" 404 2" ø PIN

	ESTIMATED QUANTITIES (ONE INTER. BENT)						
	BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION		
	801	6	34'-2"	205'-0"	LONGIT. IN CAP		
	802	6	10'-4"	62'-0"	LONGIT. IN CAP		
	TOTAL NO. 8 BARS = 267'-0" = 713 LBS.				·O" = 713 LBS.		
	601	21	2'-0"	42'-0"	DOWELS		
	TOTAL NO. 6 BARS = 42'-0" = 63 LBS.)" = 63 LBS.		
	501	2	34'-2"	68'-4"	LONGIT. IN CAP		
	TOTA	TOTAL NO. 5 BARS = 68'-4" = 71 LBS.					
	401	46	8'-2"	375'-8"	STIRRUPS IN CAP		
	402	4	3'-4"	13'-4"	STIRRUPS IN RISER		
	403	2	2'-0"	4'-0"	LONGIT. IN RISER		
	TOTA	TOTAL NO. 4 BARS = 393'-0" = 263 LBS.					
*	TOTA	L DE	FORMED	REINFOR	CING STEEL = 1110 LBS.		

FOTULATED QUANTITIES (ONE INTED DENT)

⊕ CLASS AI CONCRETE = 5.79 CU. YDS. MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS SERVICE LIVE LOAD = 40 TONS

TOTAL FACTORED LOAD = 94 TONS

* ADD 81 LBS. OF REINFORCING STEEL (27-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

E	ESTIMATED QUANTITIES (ONE END BENT)							
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION				
801	6	34'-2"	205'-0"	LONGIT. IN CAP				
802	6	10'-4"	62'-0"	LONGIT. IN CAP				
TOTA	TOTAL NO. 8 BARS = 267'-0" = 713 LBS.							
601	23	2'-0"	42'-0"	DOWELS				
TOTA	TOTAL NO. 6 BARS = 42'-0" = 63 LBS.							
501	2	34'-2"	68'-4"	LONGIT. IN CAP				
TOTA	TOTAL NO. 5 BARS = 68'-4" = 71 LBS.							
401	46	8'-2"	375'-8"	STIRRUPS IN CAP				
402	4	3'-4"	13'-4"	STIRRUPS IN RISER				
403	2	2'-0"	4'-0"	LONGIT. IN RISER				
404	8	8'-9"	70'-0"	STIRRUPS IN WINGWALL				
405	8	2'-10"	22'-8"	LONGIT. IN WINGWALL				
406	12	4'-0"	48'-0"	LONGIT. IN WINGWALL				
TOTA	TOTAL NO. 4 BARS = 533'-8" = 357 LBS.							
TOTA	TOTAL DEFORMED REINFORCING STEEL = 1204 LBS.							
CLAS	CLASS AT CONCRETE = 6.62 CU. YDS.							
MAX.	MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS							
	SERVICE LIVE LOAD = 40 TONS							
	TOTAL FACTORED LOAD = 94 TONS							

⊖ 16" Ø PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.05 CU. YDS. OF CLASS AT CONCRETE PER BENT WHEN 14" Ø PPC PILES ARE USED.)

BENT NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION WITH 2008 & 2009 INTERIMS.

DESIGN LOAD: LIVE LOAD IS HL-93, AND LADV-II (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED.

ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE

FINISH AS PER SUB-SECTION 805.08.5.3 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.

1/2" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS AT CONCRETE.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60.
DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS
OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS,
UNLESS OTHERWISE NOTED. DOWELS (601 BARS) SHALL BE PROVIDED AT ALL FIXED BEARINGS AND APPROACH SLAB BEARINGS (SEE GENERAL PLAN). ALL EXPOSED ENDS OF DOWELS SHALL BE WRAPPED WITH TWO LAYERS OF 15 LB. ASPHALT SATURATED FELT. CLOSE FITTING TUBES OF COMPRESSIBLE MATERIAL NOT LESS THAN 36" THICK MAY BE SUBSTITUTED.

PRECAST CONCRETE PILES: FOR DETAILS SEE STANDARD DETAIL BD.2.5.1.0.01(CS-216). EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 11/2 ON 12 IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.

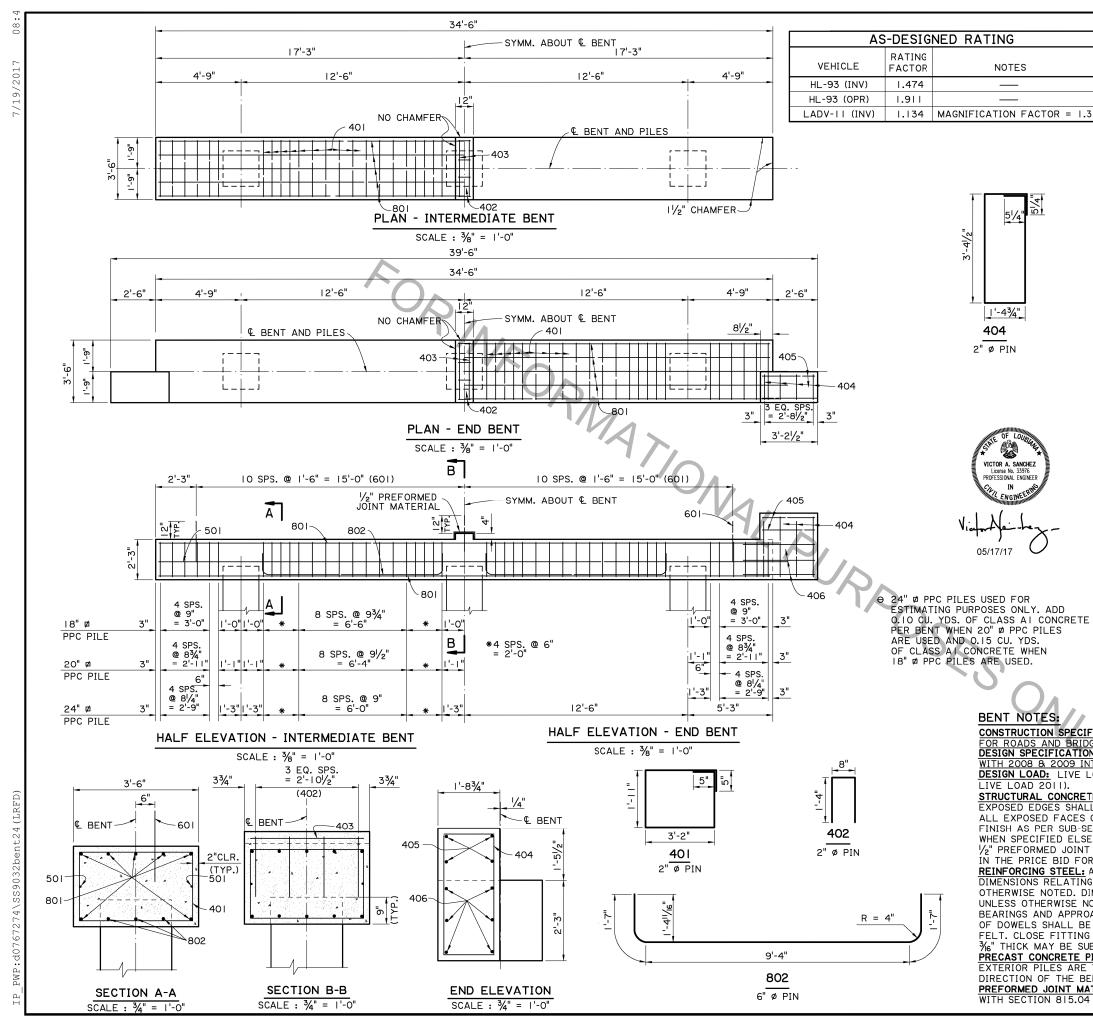
PREFORMED JOINT MATERIAL: PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 815.04 OF THE STANDARD SPECIFICATIONS.

BENTS

NFORCED CONCRETE PILE BENT
32'-0" CLEAR ROADWAY
CROSSING TWO WAY TANGENT
BCSSBR-90-32TWT-20SL



06



ESTIMATED QUANTITIES (ONE INTER. BENT) TOTAL UNIT BAR NO. LOCATION LENGTH LENGTH 239'-2" LONGIT. IN CAP 34'-2" 12'-6" 75'-0" LONGIT. IN CAP B/W PILES TOTAL NO. 8 BARS = 314'-2" = 839 LBS. 601 21 2'-0" 42'-0" DOWELS TOTAL NO. 6 BARS = 42'-0" = 63 LBS. 68'-4" LONGIT. IN CAP 2 34'-2" TOTAL NO. 5 BARS = 68'-4" 71 LBS. 11'-0" 506'-0" STIRRUPS IN CAP 402 4 3'-4" 13'-4" STIRRUPS IN RISER

3'-2"

2

403

TOTAL NO. 4 BARS = 525'-8" = 351 LBS. TOTAL DEFORMED REINFORCING STEEL = 1324 LBS. CLASS AT CONCRETE = 9.77 CU. YDS. SERVICE DEAD LOAD = 41 TONS MAX. PILE LOAD: SERVICE LIVE LOAD = 54 TONS

6'-4" LONGIT. IN RISER

TOTAL FACTORED LOAD = 132 TONS

TOTAL FACTORED LOAD = 132 TONS

● ADD 63 LBS. OF REINFORCING STEEL (21-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

ESTIMATED QUANTITIES (ONE END BENT)									
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION					
801	7	34'-2"	239'-2"	LONGIT. IN CAP					
802	6	12'-6"	75'-0"	LONGIT. IN CAP B/W PILES					
TOTAL NO. 8 BARS = 314'-2" = 839 LBS.									
601	21	2'-0"	46'-0"	DOWELS					
TOTAL NO. 6 BARS = 42'-0" = 63 LBS.									
501	2	34'-2"	68'-4"	LONGIT. IN CAP					
TOTA	AL NO	. 5 BAR	S = 68'-4	" = 71 LBS.					
401	46	11'-0"	506'-0	STIRRUPS IN CAP					
402	4	3'-4"	13'-4"	STIRRUPS IN RISER					
403	2	3'-2"	6'-4"	LONGIT. IN RISER					
404	8	10'-5"	83'-4"	STIRRUPS IN WINGWALL					
405	8	2'-10"	22'-8"	LONGIT. IN WINGWALL					
406	12	4'-0"	48'-0"	LONGIT. IN WINGWALL					
TOTAL NO. 4 BARS = 679'-8" = 454 LBS.									
TOTAL DEFORMED REINFORCING STEEL = 1427 LBS.									
CLASS AI CONCRETE = II.09 CU. YDS.									
MAX. PILE LOAD: SERVICE DEAD LOAD = 41 TONS									
SERVICE LIVE LOAD = 54 TONS									

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION WITH 2008 & 2009 INTERIMS.

DESIGN LOAD: LIVE LOAD IS HL-93, AND LADV-II (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS AI.

EXPOSED EDGES SHALL HAVE A 34" CHAMFER UNLESS OTHERWISE NOTED.
ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE FINISH AS PER SUB-SECTION 805.08.5.3 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.

1/2" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS AT CONCRETE.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60.
DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS
OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS,
UNLESS OTHERWISE NOTED. DOWELS (601 BARS) SHALL BE PROVIDED AT ALL FIXED BEARINGS AND APPROACH SLAB BEARINGS (SEE GENERAL PLAN). ALL EXPOSED ENDS OF DOWELS SHALL BE WRAPPED WITH TWO LAYERS OF 15 LB. ASPHALT SATURATED FELT. CLOSE FITTING TUBES OF COMPRESSIBLE MATERIAL NOT LESS THAN

THICK MAY BE SUBSTITUTED. PRECAST CONCRETE PILES: FOR DETAILS SEE STANDARD DETAIL BD.2.5.1.0.01 (CS-216). EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 1/2 ON 12 IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.

PREFORMED JOINT MATERIAL: PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 815.04 OF THE STANDARD SPECIFICATIONS.



BENTS
NFORCED CONCRETE PILE BENT
32'-0" CLEAR ROADWAY
CROSSING TWO WAY TANGENT
BCSSBR-90-32TWT-20SL-24P 90°



