

05/17/17

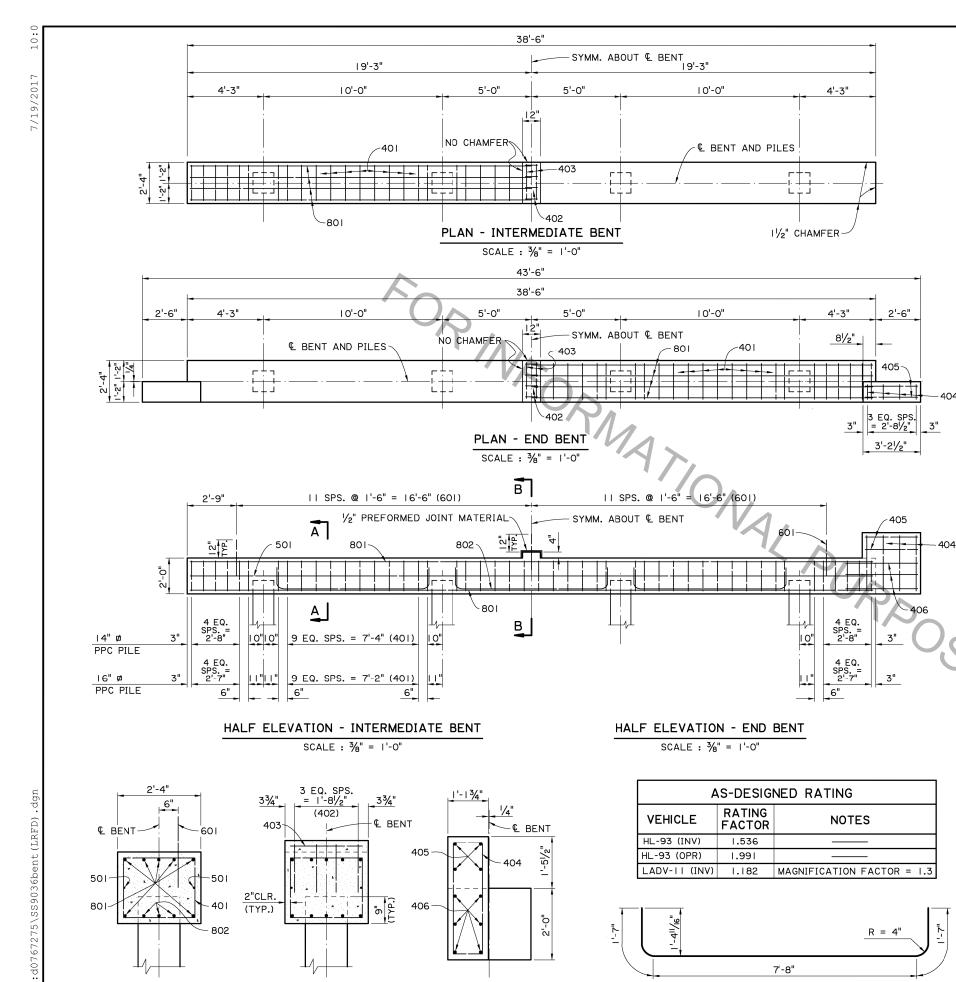
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SLAB

APPROACH SLAB
O" CONCRETE APPROACH S
36-0" CLEAR ROADWAY
CROSSING TWO WAY TANG
CASBR-90-36TWT-201-20SL

20'-0" 90°

WHERE NOTED ON THIS SHEET.



**END ELEVATION** 

SCALE :  $\frac{3}{4}$ " = 1'-0"

SECTION A-A

SCALE :  $\frac{3}{4}$ " = 1'-0"

SECTION B-B

SCALE :  $\frac{3}{4}$ " = 1'-0"

ESTIMATED QUANTITIES (ONE INTER. BENT) BAR NO. LENGTH LENGTH LOCATION 267'-2" LONGIT. IN CAP 38'-2" 10'-10" 97'-6" LONGIT. IN CAP TOTAL NO. 8 BARS = 364'-8" = 974 601 23 2'-0" 46'-0" DOWELS TOTAL NO. 6 BARS = 46'-0" = 69 LBS. 501 2 38'-2" 76'-4" LONGIT. IN CAP TOTAL NO. 5 BARS = 76'-4" = 80 LBS. 8'-2" 392'-0" STIRRUPS IN CAP 402 3'-4" 13'-4" STIRRUPS IN RISER 403 2'-0" 4'-0" LONGIT. IN RISER TOTAL NO. 4 BARS = 409'-4" = 273 LBS. TOTAL DEFORMED REINFORCING STEEL = 1396 LBS.

2'-0"

401

2" Ø PIN

402

2" Ø PIN

05/17/17

93/4"

404

2" Ø PIN

802

6" Ø PIN

BENT NOTES:

SERVICE LIVE LOAD = 41 TONS FACTORED TOTAL LOAD = 94 TONS \* ADD 69 LBS. OF REINFORCING STEEL (23-601 DOWELS) WHEN

TWO FIXED ENDS OCCUR ON THE SAME BENT.

= 6.49 CU. YDS.

SERVICE DEAD LOAD = 27 TONS

CLASS AT CONCRETE

MAX. PILE LOAD:

ESTIMATED QUANTITIES (ONE END BENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	
801	7	38'-2"	267'-2"	LONGIT. IN CAP
802	9	10'-10"	97'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 364'-8" = 974 LBS.				
601	23	2'-0"		DOWELS
TOTAL NO. 6 BARS = 46'-0" = 69 LBS.				
501	2	38'-2"	76'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 76'-4" = 80 LBS.				
401	48	8'-2"	392'-0"	STIRRUPS IN CAP
402	4	3'-4"	∣3'-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
TOTAL NO. 4 BARS = 550'-0" = 367 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1490 LBS.				
CLASS AI CONCRETE = 7.31 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS				
SERVICE LIVE LOAD = 41 TONS				
FACTORED TOTAL LOAD = 94 TONS				

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

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 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 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
36'-0" CLEAR ROADWAY
CROSSING TWO WAY TANGENT
BCSSBR-90-36 FWT-20SL



