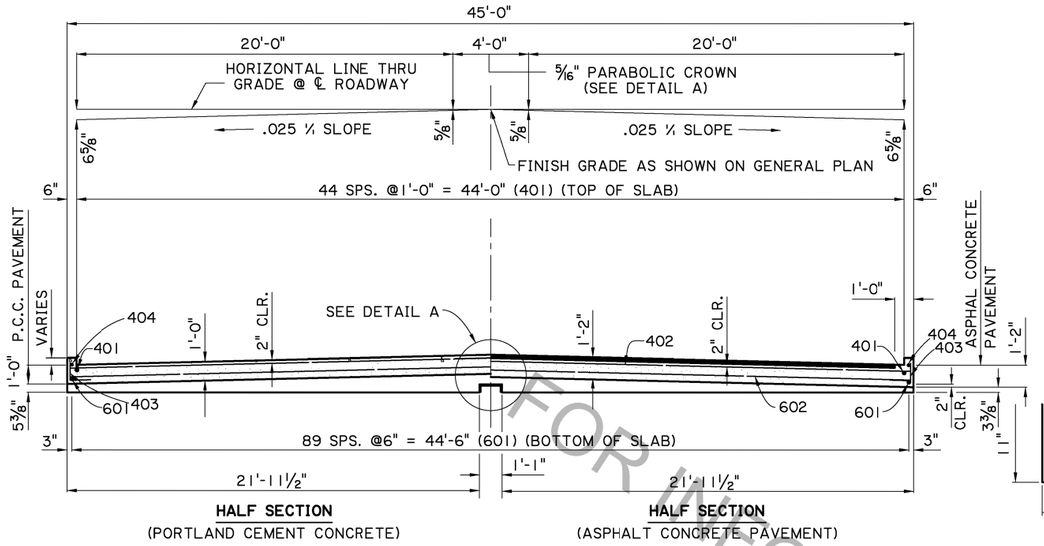
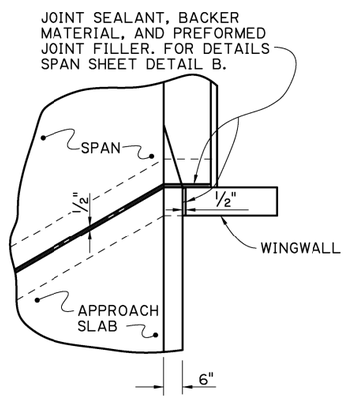


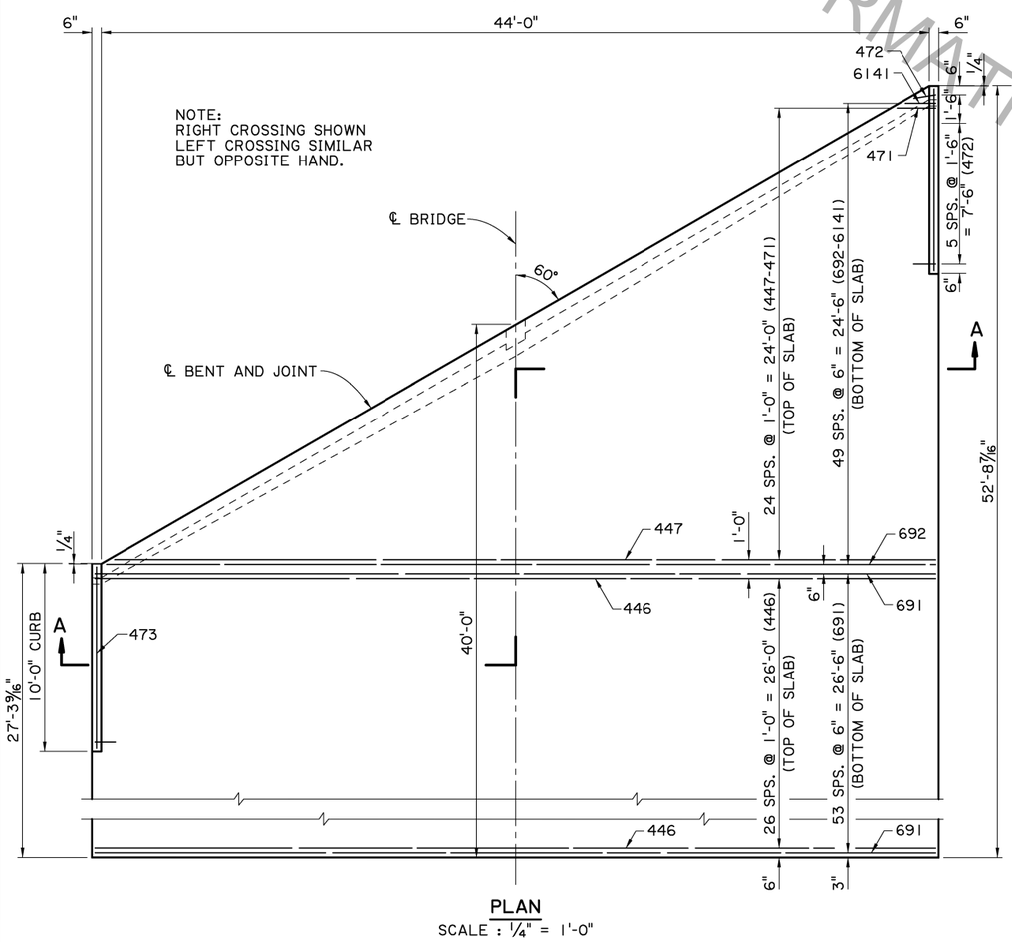


JOINT DETAIL
SCALE : ½" = 1'-0"

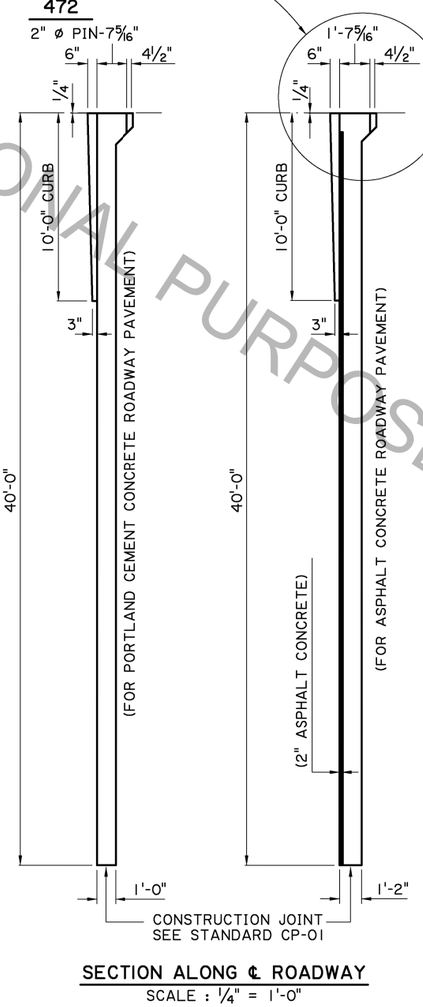
ESTIMATED QUANTITIES (ONE SLAB)						
BAR	NO.	SHORT BAR	VAR. (INCHES)	LONG BAR	TOTAL LENGTH	LOCATION
601	1			26'-11"	26'-11"	LONGITUDINAL BOTTOM OF SLAB
602-689	1 EA.	27'-0'	3.4713	52'-2"	3483'-4"	LONGITUDINAL BOTTOM OF SLAB
690	1			52'-4"	52'-4"	LONGITUDINAL BOTTOM OF SLAB
691	54			44'-8"	2412'-0"	TRANSVERSE BOTTOM OF SLAB
692-6141	1 EA.	1'-7"	10.3878	44'-0"	1139'-7"	TRANSVERSE BOTTOM OF SLAB
TOTAL NO. 6 BARS = 7114'-2" = 10685 LBS.						
401-423	1 EA.	26'-11"	6.9091	39'-7"	764'-9"	LONGITUDINAL TOP OF SLAB
⊙ 424-445	1 EA.	41'-10"	6.9048	53'-11"	1053'-3"	LONGITUDINAL TOP OF SLAB
⊙ 446	27			46'-4"	1251'-0"	TRANSVERSE TOP OF SLAB
⊙ 447-449	1 EA.	41'-9"	21.0000	45'-3"	130'-6"	TRANSVERSE TOP OF SLAB
450-471	1 EA.	2'-0"	20.8095	38'-5"	444'-7"	TRANSVERSE TOP OF SLAB
472	14			2'-0"	28'-0"	DOWELS IN CURB
473	2			9'-7"	19'-2"	LONGITUDINAL IN CURB
TOTAL NO. 4 BARS = 3691'-3" = 2466 LBS.						
* DEFORMED REINFORCING STEEL					= 13151	LBS.
CONCRETE APPROACH SLAB					= 200.00	SQ. YDS.
☒ ASPHALT CONCRETE					= 20.5	TONS
☒ SAW CUT & SEAL					= 43	LIN. FT.

* TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.
⊙ INCLUDES 1'-8" MINIMUM LAP SPLICE. ALL LAP SPLICES ARE TO BE STAGGERED.
☒ REQUIRED WHEN APPROACH SLAB IS ADJACENT TO ASPHALT CONCRETE PAVEMENT. PAID FOR UNDER ITEM ASPHALT CONCRETE, AND SAWING AND SEALING TRANSVERSE JOINTS IN ASPHALT CONCRETE OVERLAY.

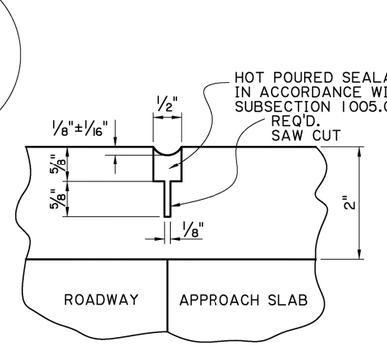
SECTION A-A
SCALE : ¼" = 1'-0"



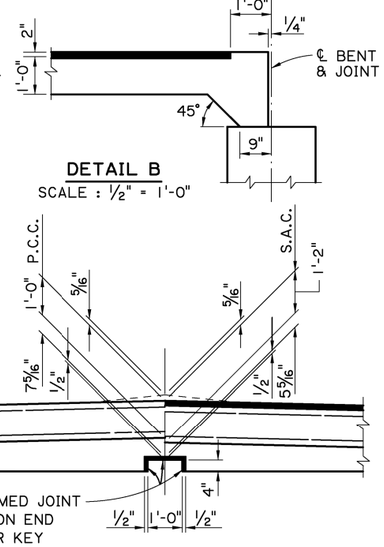
PLAN
SCALE : ¼" = 1'-0"



SECTION ALONG ℄ ROADWAY
SCALE : ¼" = 1'-0"



SAWING & SEALING JOINT DETAIL
N.T.S.



DETAIL B
SCALE : ½" = 1'-0"

DETAIL A
SCALE : ½" = 1'-0"

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
05/17/17

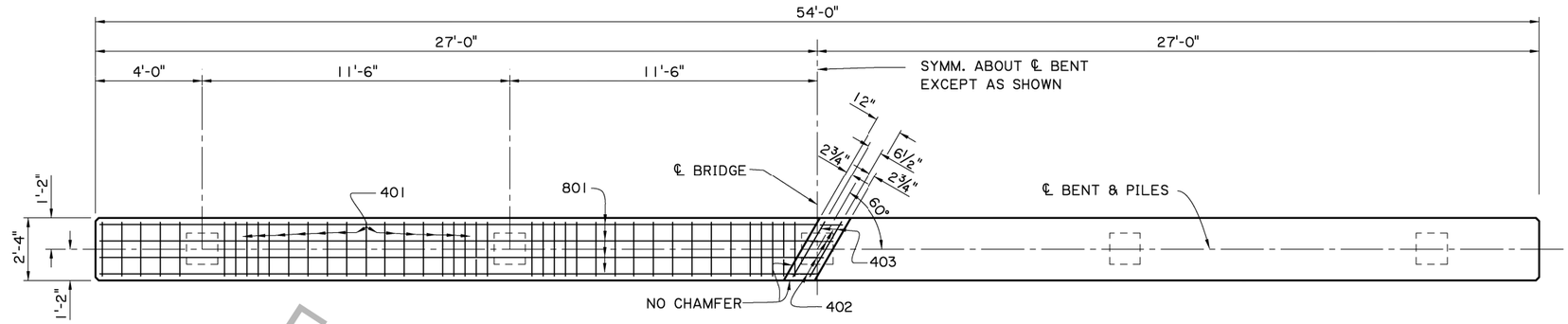
APPROACH SLAB NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN 4th EDITION, WITH 2008 & 2009 INTERIMS.
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE NOTED.
ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE ASPHALT CONCRETE CONCRETE 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 AND SEALED.
BASIS OF PAYMENT: ALL MATERIAL SHALL BE PAID FOR UNDER 'CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.

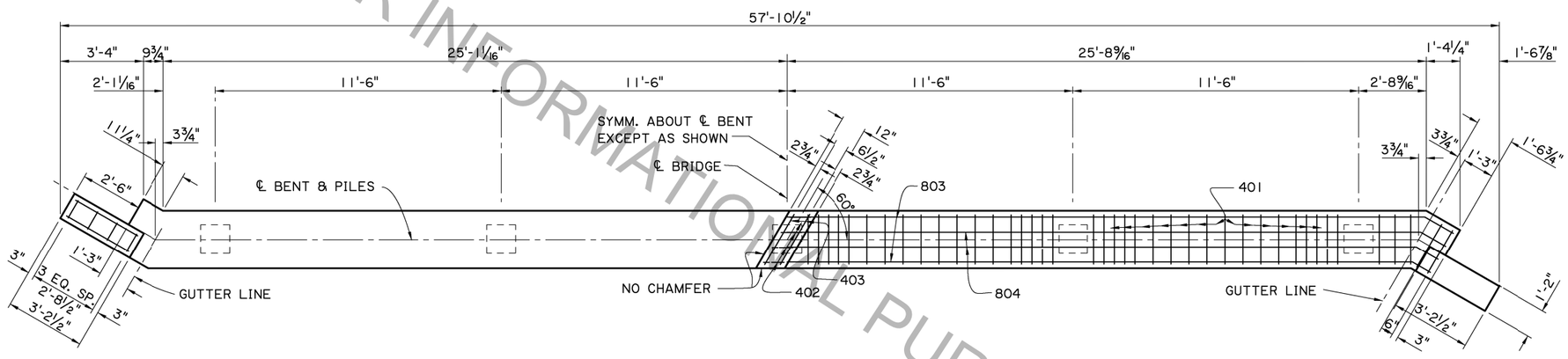
SHEET NUMBER
PARISH
CONTROL SECTION
STATE PROJECT
DESIGNED J. NAKHLEH
CHECKED B. DELATTE
DETAILED D. HYMEL
CHECKED J. NAKHLEH
REVIEWED 05/17/17
SERIES #
BY
NO. DATE REVISION OR CHANGE ORDER DESCRIPTION

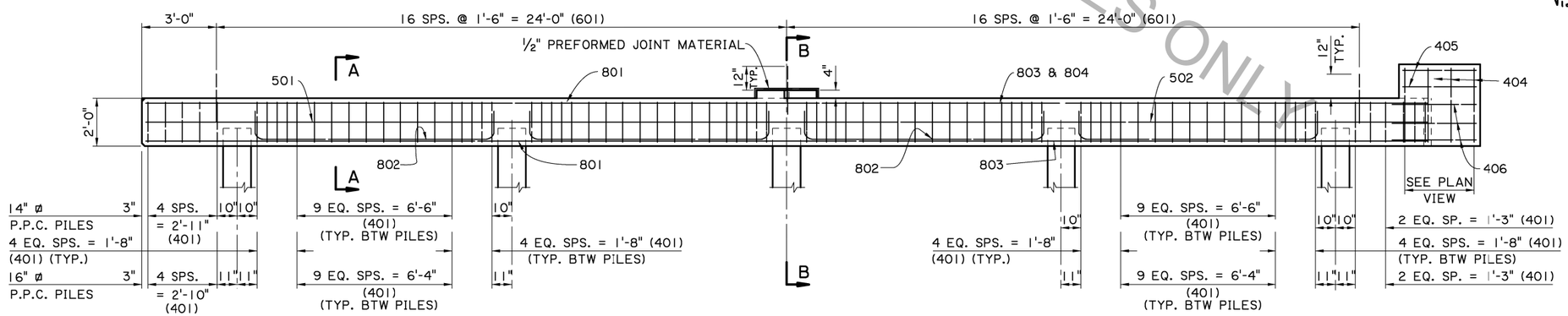
APPROACH SLAB
40'-0" CONCRETE APPROACH SLAB
44'-0" CLEAR ROADWAY
60° CROSSING TWO WAY TANGENT
STANDARD SHEET NO. CASBR-60-44TWT-40L-20SL

DOTD BRIDGE DESIGN



PLAN - INTERMEDIATE BENT
SCALE : ⅜" = 1'-0"





HALF ELEVATION - INTERMEDIATE BENT
SCALE : ⅜" = 1'-0"

HALF ELEVATION - END BENT
SCALE : ⅜" = 1'-0"

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
05/17/17

SHEET NUMBER

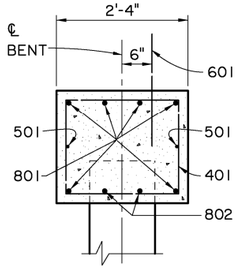
DESIGNED / CHECKED	PARISH	CONTROL SECTION	STATE PROJECT
P.J. PAINE / J. NAKHLEH			
DETAILED / CHECKED	D. HYMEL / J. NAKHLEH		
REVIEWED / SERIES #	05/17/17 / 1 OF 2		

NO.	REVISION OR CHANGE ORDER DESCRIPTION	BY	DATE

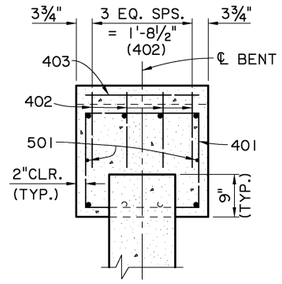
BENTS (1 OF 2)
REINFORCED CONCRETE PILE BENT
44'-0" CLEAR ROADWAY
60° CROSSING TWO WAY TANGENT
BCSSBR-60-44TWT-20SL

STANDARD SHEET NO.

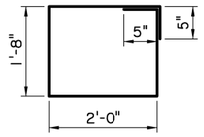
DOTD BRIDGE DESIGN



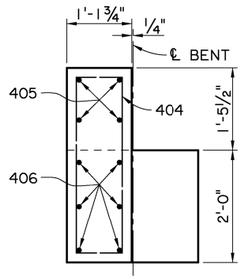
SECTION A-A
SCALE : ¾" = 1'-0"



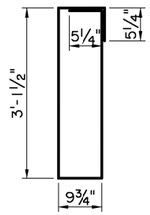
SECTION B-B
SCALE : ¾" = 1'-0"



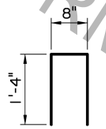
401
2" ø PIN



END ELEVATION
SCALE : ¾" = 1'-0"

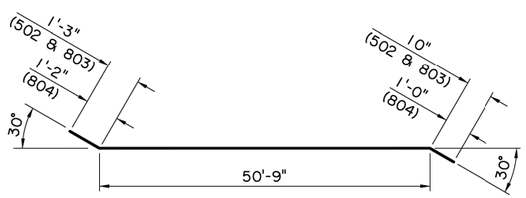


404
2" ø PIN



402
2" ø PIN

802
6" ø PIN



502, 803 & 804
3¾" ø PIN (502)
6" ø PIN (803 & 804)

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.452	———
HL-93 (OPR)	1.883	———
LADV-11 (INV)	1.117	MAGNIFICATION FACTOR = 1.3

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-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A ¾" 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. ½" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A1 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 3/16" 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 1½ 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.

ESTIMATED QUANTITIES (ONE INTER. BENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	53'-8"	322'-0"	LONGIT. IN CAP
802	8	12'-4"	98'-8"	LONGIT. IN CAP BETWEEN PILES
TOTAL NO. 8 BARS = 420'-8" = 1123 LBS.				
601	33	2'-0"	66'-0"	DOWELS
TOTAL NO. 6 BARS = 66'-0" = 99 LBS.				
501	2	53'-8"	107'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 107'-4" = 112 LBS.				
401	82	8'-2"	669'-8"	STIRRUPS IN CAP
402	4	3'-4"	13'-4"	STIRRUPS IN RISER
403	2	2'-3"	4'-6"	LONGIT. IN RISER
TOTAL NO. 4 BARS = 687'-6" = 460 LBS.				
* TOTAL DEFORMED REINFORCING STEEL = 1794 LBS.				
⊖ CLASS A1 CONCRETE = 9.12 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 31 TONS SERVICE LIVE LOAD = 41 TONS FACTORED TOTAL LOAD = 99 TONS				

* ADD 99 LBS. OF REINFORCING STEEL (33-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

ESTIMATED QUANTITIES (ONE END BENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
802	8	12'-4"	98'-8"	LONGIT. IN CAP BETWEEN PILES
803	4	52'-10"	211'-4"	LONGIT. IN CAP
804	2	52'-11"	105'-10"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 415'-10" = 1110 LBS.				
601	33	2'-0"	66'-0"	DOWELS
TOTAL NO. 6 BARS = 66'-0" = 99 LBS.				
502	2	52'-10"	105'-8"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 105'-8" = 110 LBS.				
401	82	8'-2"	669'-8"	STIRRUPS IN CAP
402	4	3'-4"	13'-4"	STIRRUPS IN RISER
403	2	2'-3"	4'-6"	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 = 828'-2" = 554 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1873 LBS.				
⊖ CLASS A1 CONCRETE = 9.82 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 31 TONS SERVICE LIVE LOAD = 41 TONS FACTORED TOTAL LOAD = 99 TONS				

⊖ 16" ø PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.05 CU. YDS. OF CLASS A1 CONCRETE PER BENT WHEN 14" ø PPC PILES ARE USED.)

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

05/17/17

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

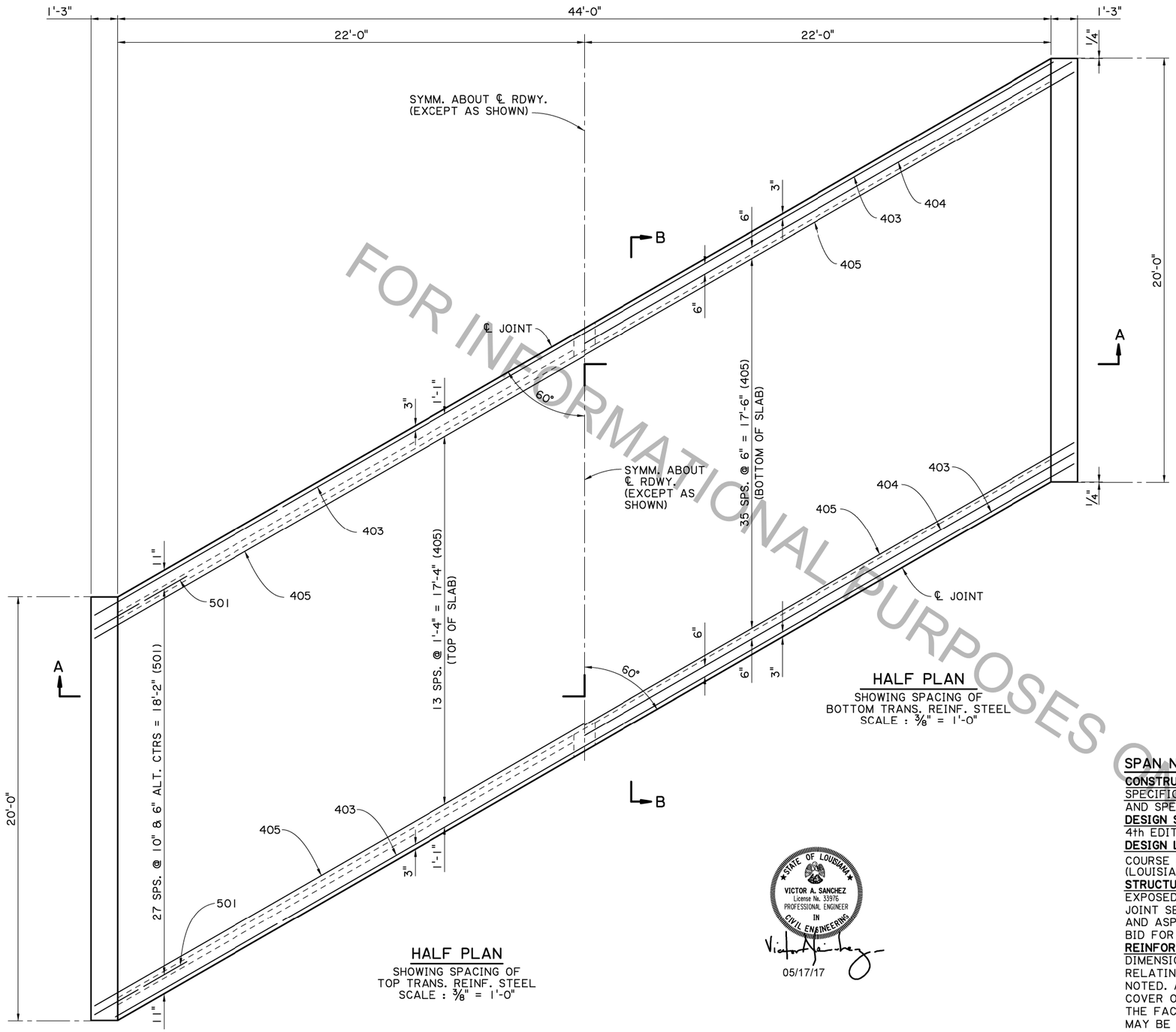
DESIGNED P.J. PAINE
CHECKED J. NAKHLEH
DETAILED D. HYMEL
CHECKED J. NAKHLEH
REVIEWED 05/17/17
SERIES # 2 OF 2

NO.	REVISION OR CHANGE ORDER DESCRIPTION	DATE	BY

BENTS (2 OF 2)
REINFORCED CONCRETE PILE BENT
44'-0" CLEAR ROADWAY
60° CROSSING TWO WAY TANGENT

STANDARD DETAIL BCSSBR-60-44TWT-20SL

DOTD BRIDGE DESIGN



HALF PLAN
SHOWING SPACING OF
BOTTOM TRANS. REINF. STEEL
SCALE : 3/8" = 1'-0"

HALF PLAN
SHOWING SPACING OF
TOP TRANS. REINF. STEEL
SCALE : 3/8" = 1'-0"

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.416	———
HL-93 (OPR)	1.835	———
LADV-11 (INV)	1.089	MAGNIFICATION FACTOR = 1.3

NOTE:
FOR SECTIONS A-A AND B-B, SEE SHEET 2 OF 2.

SPAN 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: THE BRIDGE DECK IS DESIGNED FOR A FUTURE WEARING COURSE OF 19 PSF. THE LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. JOINT SEALANT, BACKER MATERIAL, PREFORMED JOINT FILLER, AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A1 CONCRETE.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS OTHERWISE NOTED. ALL REINFORCING BARS SHALL BE PLACED TO PROVIDE A MINIMUM COVER OF ONE INCH FROM THE SURFACE OF THE DRAIN HOLES TO THE FACE OF THE BARS EXCEPT FOR THE TRANSVERSE BARS WHICH MAY BE CUT FOR THIS PURPOSE.

GUARD RAIL: REFER TO THE GENERAL PLAN AND STANDARD PLAN BD.1.1.1.0.01 (GR-200) FOR GUARD RAIL REQUIREMENTS.

BARRIER RAILING: FOR BARRIER RAILING DETAILS, SEE STANDARD DETAIL BD.2.6.1.1.14.02 (BR-02).

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
05/17/17

SHEET NUMBER

DESIGNED	J. NAKHLEH
CHECKED	J. PAINE
DETAILED	D. HYMEL
CHECKED	J. NAKHLEH
REVIEWED	05/17/17
SERIES #	1 OF 2

PARISH | CONTROL SECTION | STATE PROJECT

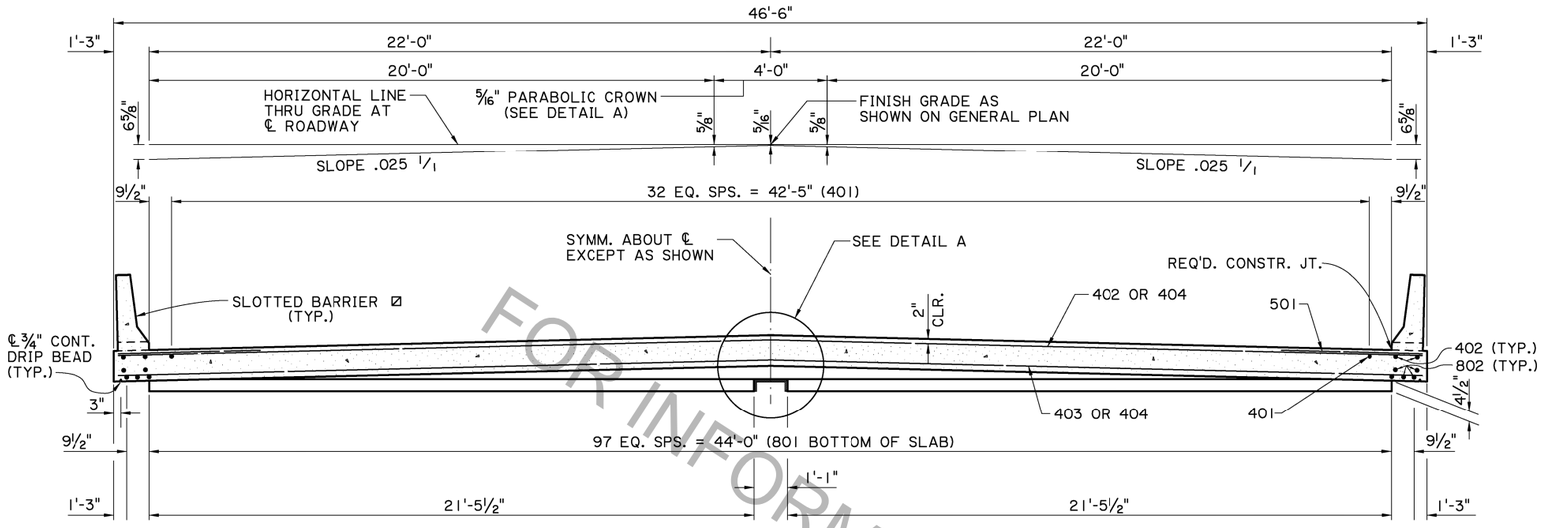
REVISION OR CHANGE ORDER DESCRIPTION | BY | DATE | NO.

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

SPAN (1 OF 2)
20'-0" CONCRETE SLAB SPAN
44'-0" CLEAR ROADWAY
60° CROSSING TWO WAY TANGENT

STANDARD DETAIL CSSBR-60-44TWT-20SL

DOTD BRIDGE DESIGN

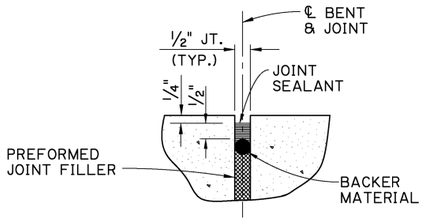


SECTION A-A
SCALE : 3/8" = 1'-0"

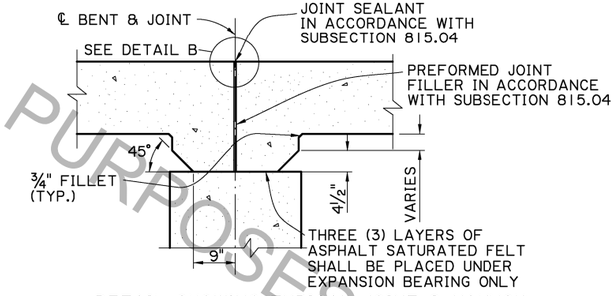
⊠ STANDARD BARRIERS REQUIRED ON END SPANS.

ESTIMATED QUANTITIES (ONE SPAN)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	98	19'-6"	1911'-0"	LONGIT. BOT. OF SLAB
802	8	19'-7"	156'-8"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 2067'-8" = 5521 LBS.				
501	56	5'-0"	280'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 280'-0" = 292 LBS.				
401	33	19'-6"	643'-6"	LONGIT. TOP OF SLAB
402	4	19'-7"	78'-4"	LONGIT. TOP OF SLAB
* 403	4	53'-10"	215'-4"	TRANS. TOP & BOT. OF SLAB
* 404	2	54'-10"	109'-8"	TRANS. TOP & BOT. OF SLAB
* 405	50	54'-11"	2745'-10"	TRANS. TOP & BOT. OF SLAB
TOTAL NO. 4 BARS = 3792'-8" = 2534 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 8347 LBS.				
CLASS A1 CONCRETE = 39.68 CU. YDS.				
CONCRETE RAILING (BARRIER TYPE) = 40.00 LIN. FT.				

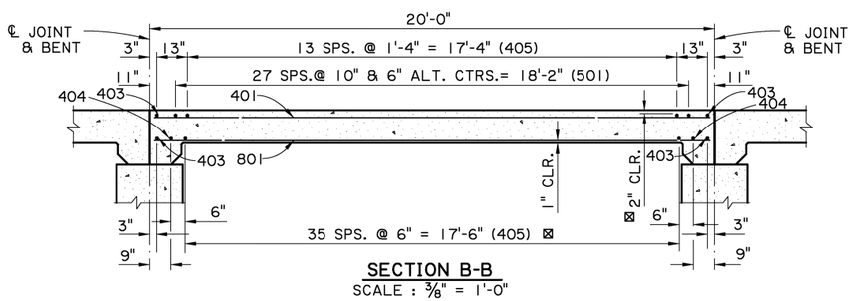
* INCLUDES ONE (1) 1'-8" MINIMUM LAP SPLICE. ALL LAP SPLICES ARE TO BE STAGGERED.



DETAIL B
N.T.S.

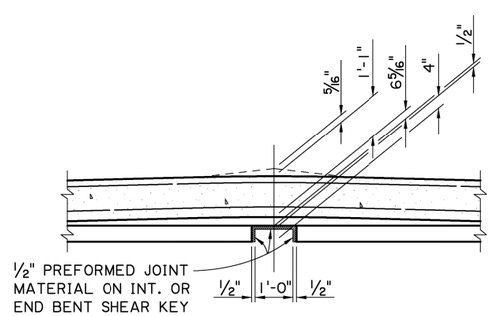


DETAIL SHOWING TYPICAL JOINT & HAUNCH
SCALE : 1/2" = 1'-0"



SECTION B-B
SCALE : 3/8" = 1'-0"

⊠ FOR BRIDGES IN DISTRICTS 04 & 05, MINIMUM CONCRETE COVER IN TOP OF SLAB SHALL BE 2 1/2".



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

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33576
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
05/17/17

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

DESIGNED	J. NAKHLEH
CHECKED	J. PAINE
DETAILED	D. HYMEL
CHECKED	J. NAKHLEH
REVIEWED	05/17/17
SERIES #	2 OF 2

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

STATE OF LOUISIANA

DOTD

DOTD BRIDGE DESIGN STANDARD DETAIL

SPAN (2 OF 2)
20'-0" CONCRETE SLAB SPAN
44'-0" CLEAR ROADWAY
60° CROSSING TWO WAY TANGENT

CSSBR-60-44TWT-20SL