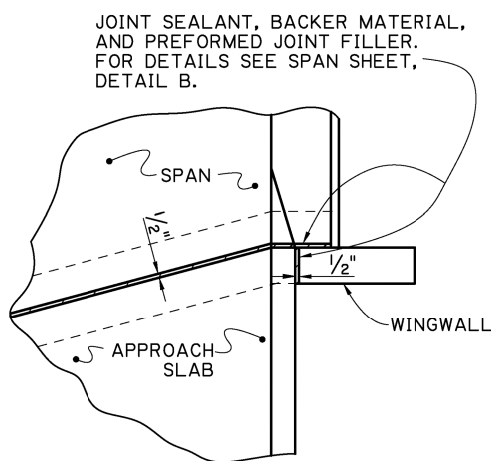
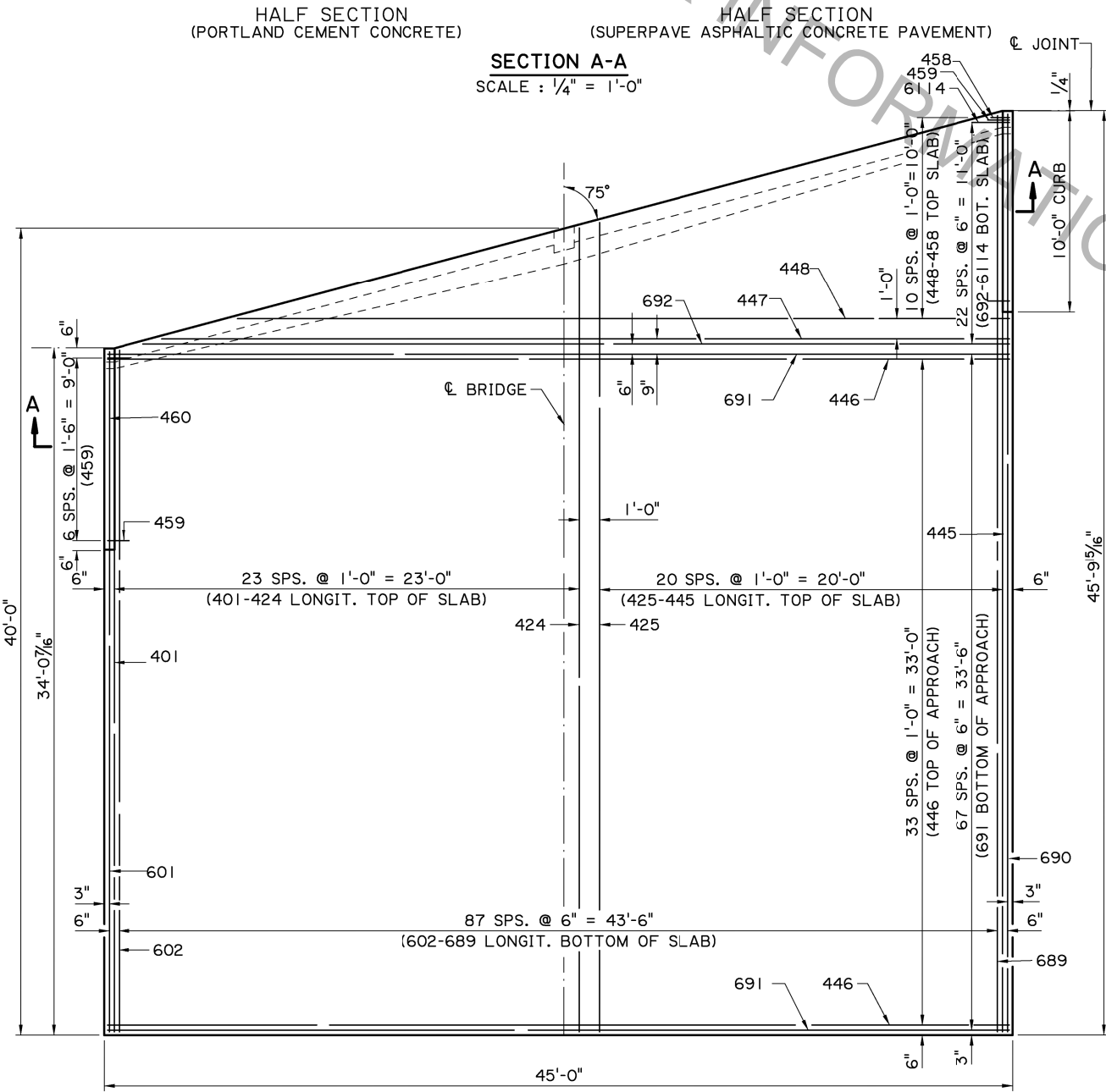


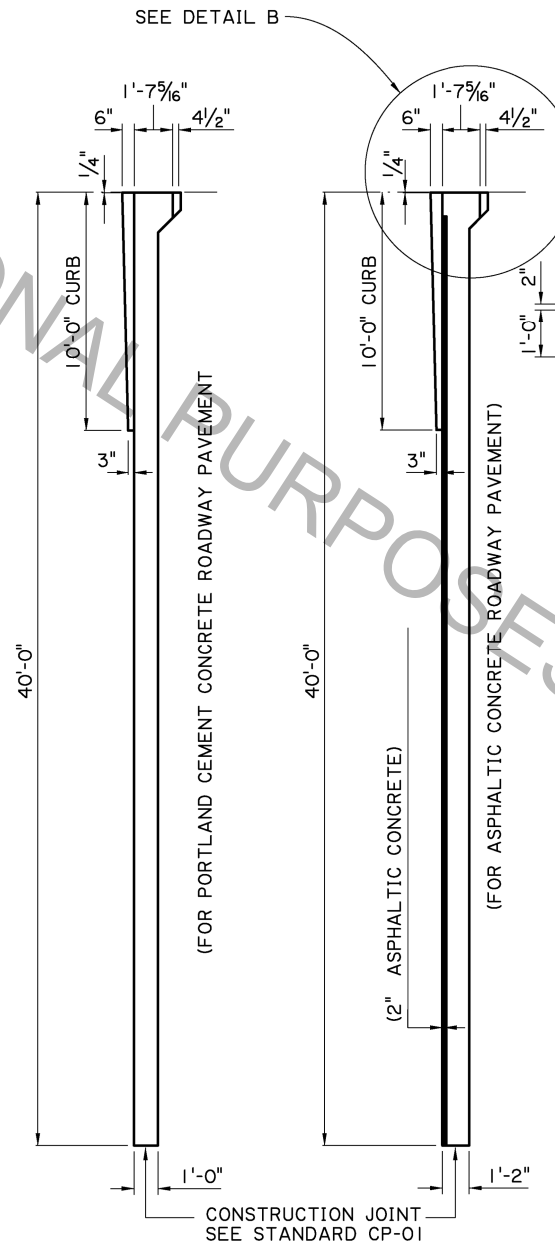
SECTION A-A
SCALE: 1/4" = 1'-0"



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



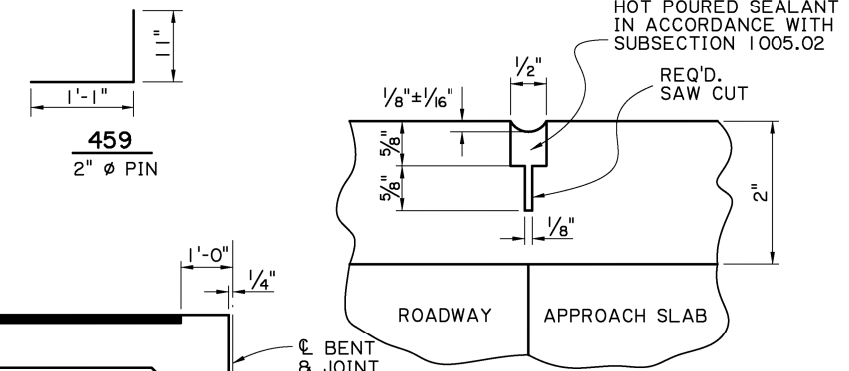
PLAN
SCALE: 1/4" = 1'-0"



SECTION ALONG C&R ROADWAY
SCALE: 1/4" = 1'-0"

ESTIMATED QUANTITIES (ONE SLAB)						
BAR	No.	SHORT BAR	VAR. (FT.)	LONG BAR	TOTAL LENGTH	LOCATION
601	1			33'-8"	33'-8"	LONGITUDINAL BOTTOM OF SLAB
602-689	1 EA.	33'-9"	0.1341	45'-5"	3483'-4"	LONGITUDINAL BOTTOM OF SLAB
690	1			45'-6"	45'-6"	LONGITUDINAL BOTTOM OF SLAB
691	68			44'-8"	3037'-4"	TRANSVERSE BOTTOM OF SLAB
692-6114	1 EA.	1'-10"	1.8636	42'-10"	513'-8"	TRANSVERSE BOTTOM OF SLAB
TOTAL No. 6 BARS = 7113'-6" = 10,684 LBS.						
401-424	1 EA.	33'-8"	0.2681	39'-10"	882'-0"	LONGITUDINAL TOP OF SLAB
425-445	1 EA.	41'-9"	0.2708	47'-2"	933'-8"	LONGITUDINAL TOP OF SLAB
446	34			46'-4"	1575'-4"	TRANSVERSE TOP OF SLAB
447	1			43'-7"	43'-7"	TRANSVERSE TOP OF SLAB
448-458	1 EA.	0'-10"	3.7333	38'-2"	214'-6"	TRANSVERSE TOP OF SLAB
459	14			2'-0"	28'-0"	DOWELS IN CURB
460	2			9'-7"	19'-2"	LONGITUDINAL IN CURB
TOTAL No. 4 BARS = 3696'-3" = 2,469 LBS.						
* TOTAL DEFORMED REINFORCING STEEL					=	13,153 LBS.
CONCRETE APPROACH SLAB					=	200.00 SQ. YDS.
ASPHALT CONCRETE					=	20.5 TONS
SAW CUT & SEAL					=	43 LIN. FT.

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



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

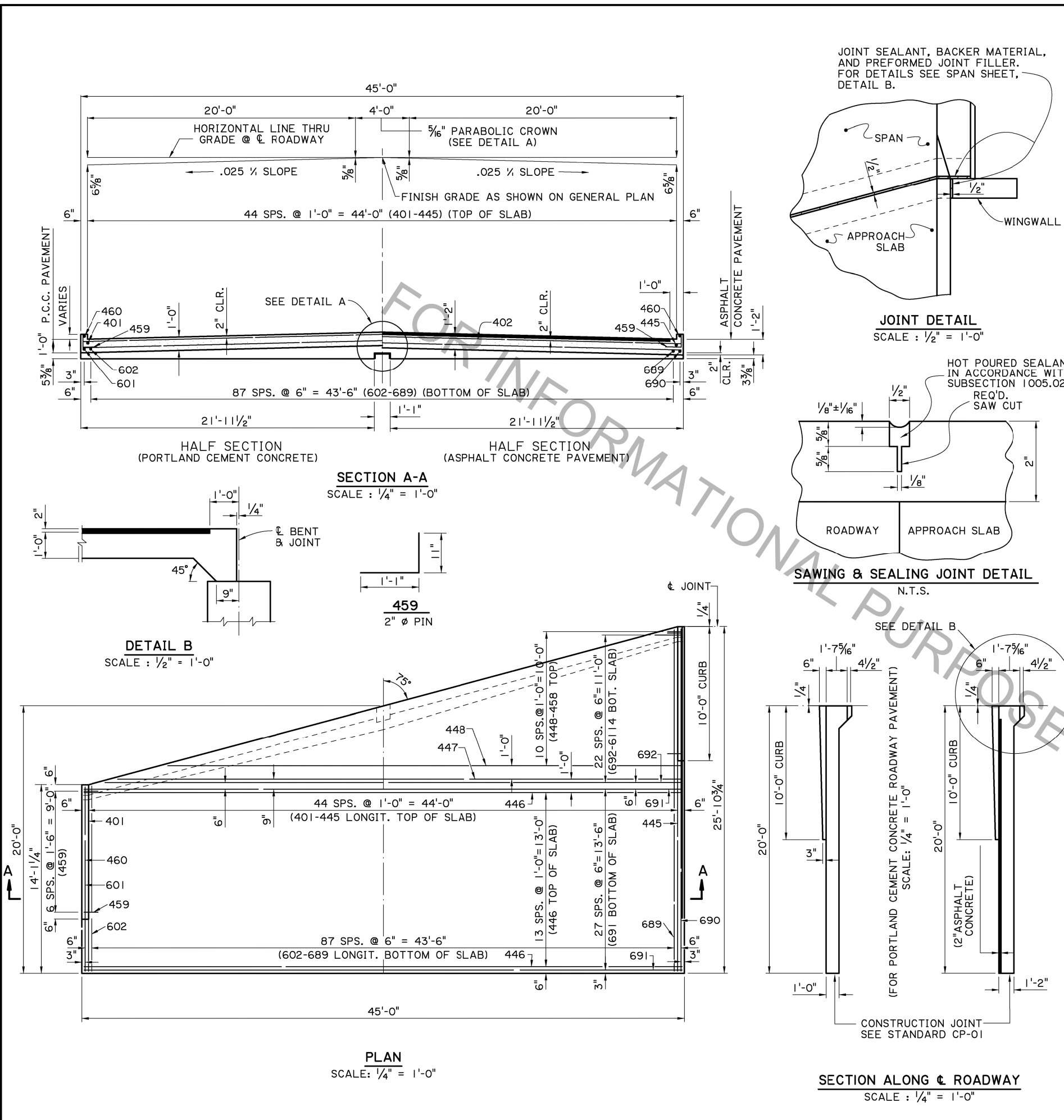


Victor A. Sanchez
05/17/17

APPROACH SLAB NOTES:

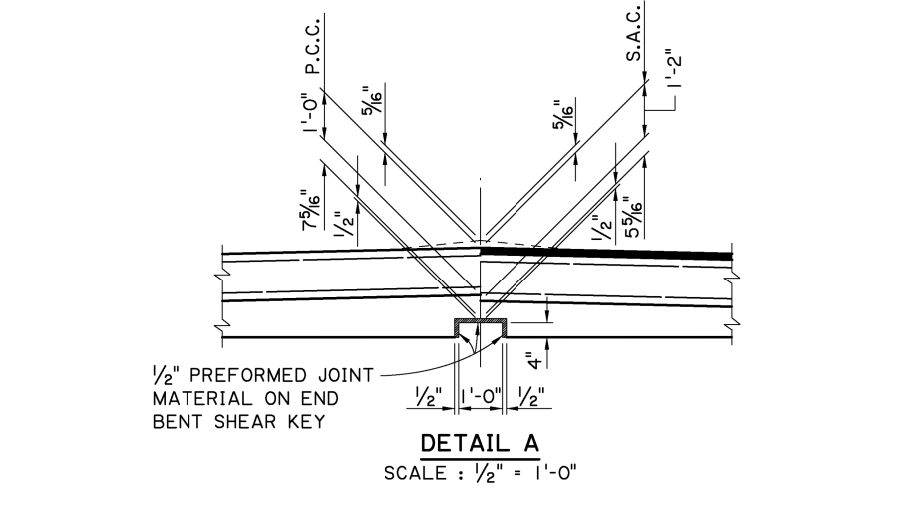
CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE NOTED.
ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE ASPHALT 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	DESIGNED BY	CONTROL SECTION	STATE PROJECT
	NAKHLEH	J. NAKHLEH	D. HYMEL	05/17/17
CHECKED BY	REVIEWED BY	DATE	NO.	BY
	J. NAKHLEH	05/17/17		
REVISION OR CHANGE ORDER DESCRIPTION				
APPROACH SLAB				
40'-0" CONCRETE APPROACH SLAB				
44'-0" CLEAR ROADWAY				
75° CROSSING TWO WAY TANGENT				
STANDARD DETAIL				
CASBR-75-44TW-40L-20SL				
DOTD DESIGN				

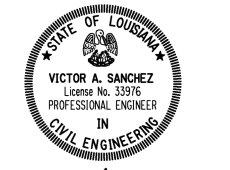


ESTIMATED QUANTITIES (ONE SLAB)						
BAR	No.	SHORT BAR	VAR. (FT.)	LONG BAR	TOTAL LENGTH	LOCATION
601	1			13'-9"	13'-9"	LONGITUDINAL BOTTOM OF SLAB
602-689	EA.	13'-10"	0.1331	25'-5"	1727'-0"	LONGITUDINAL BOTTOM OF SLAB
690	1			25'-6"	25'-6"	LONGITUDINAL BOTTOM OF SLAB
691	28			44'-8"	1250'-8"	TRANSVERSE BOTTOM OF SLAB
692-6114	EA.	2'-0"	1.8636	43'-0"	517'-6"	TRANSVERSE BOTTOM OF SLAB
TOTAL No. 6 BARS = 3534'-5" = 5309 LBS.						
401-445	EA.	13'-9"	0.2670	25'-6"	883'-2"	LONGITUDINAL TOP OF SLAB
446	14			46'-4"	648'-8"	TRANSVERSE TOP OF SLAB
447	1			43'-9"	43'-9"	TRANSVERSE TOP OF SLAB
448-458	EA.	1'-1"	3.7250	38'-4"	216'-10"	TRANSVERSE TOP OF SLAB
459	14			2'-0"	28'-0"	DOWELS IN CURB
460	2			9'-7"	19'-2"	LONGITUDINAL IN CURB
TOTAL No. 4 BARS = 1839'-7" = 1229 LBS.						
* TOTAL DEFORMED REINFORCING STEEL					= 6,538 LBS.	
CONCRETE APPROACH SLAB					= 99.89 SQ. YDS.	
ASPHALT CONCRETE					= 10.0 TONS	
SAW CUT & SEAL					= 43 LIN. FT.	

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



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 SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE NOTED.
ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE ASPHALT 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.

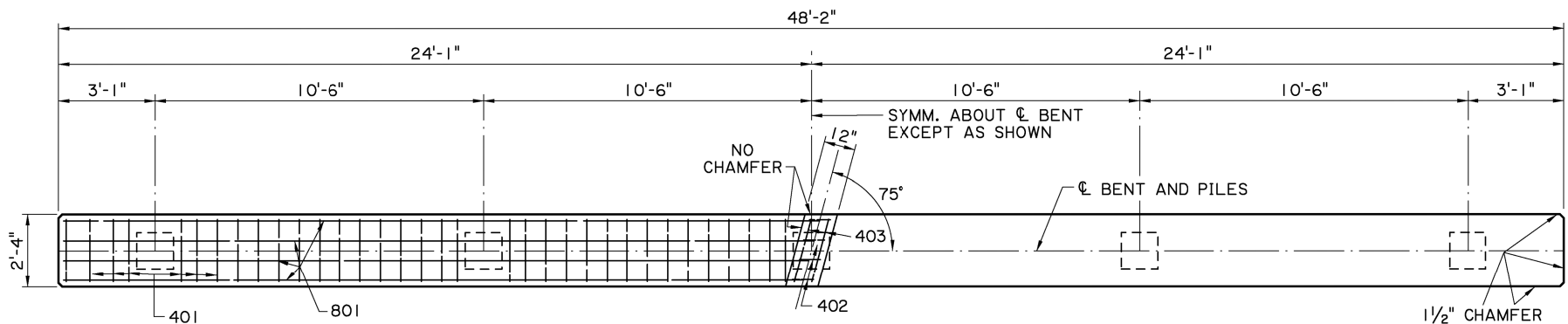


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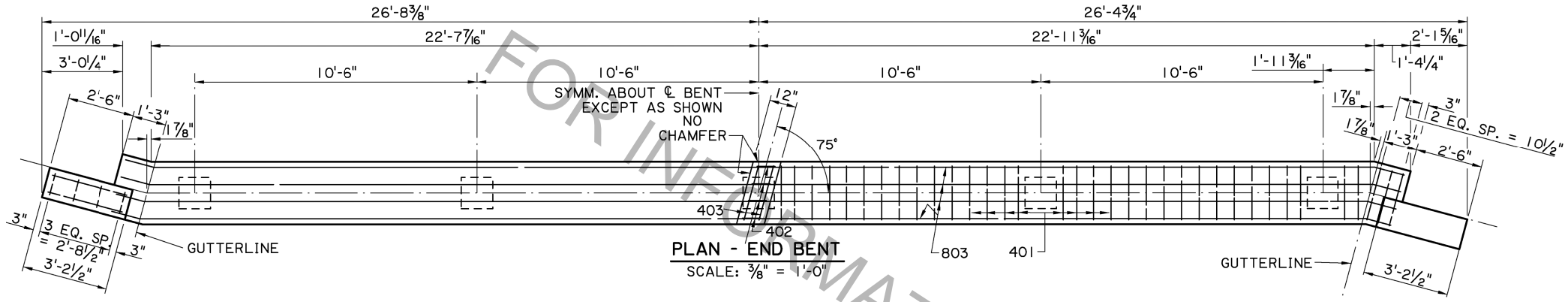
SHEET NUMBER			
DESIGNED	CHECKED	CONTROL SECTION	STATE PROJECT
J. NAKHLEH	B. DELETTE	D. HYMEL	OS/17/17
REVISION OR CHANGE	NO.	DATE	BY
APPROACH SLAB 20'-0" CONCRETE APPROACH SLAB 44'-0" CLEAR ROADWAY 75° CROSSING TWO WAY TANGENT			
STANDARD DETAIL CASBR-75-44-TWT-20L-20SL			
DOTD DOTD BRIDGE DESIGN			



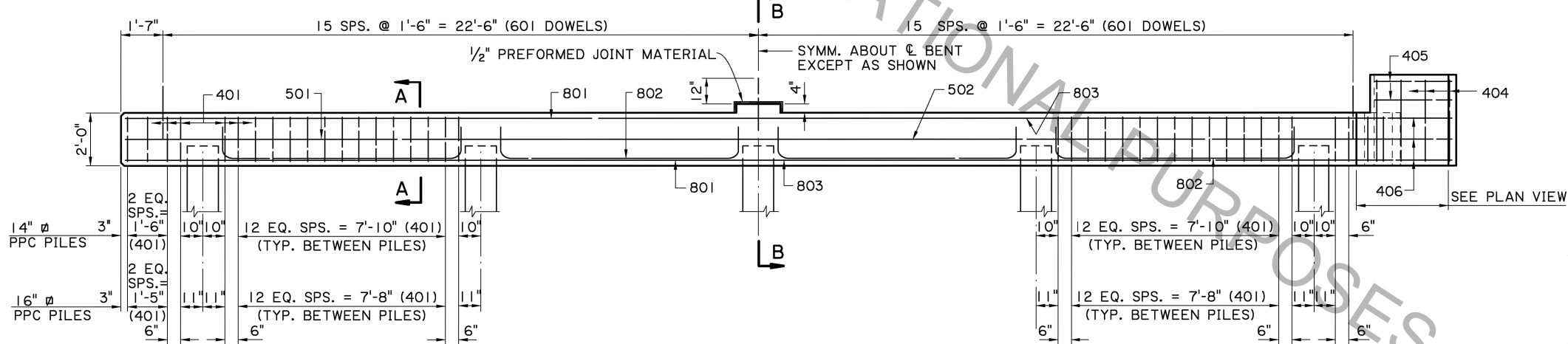
Victor A. Sanchez
05/17/17



PLAN - INTERMEDIATE BENT
SCALE: 3/8" = 1'-0"

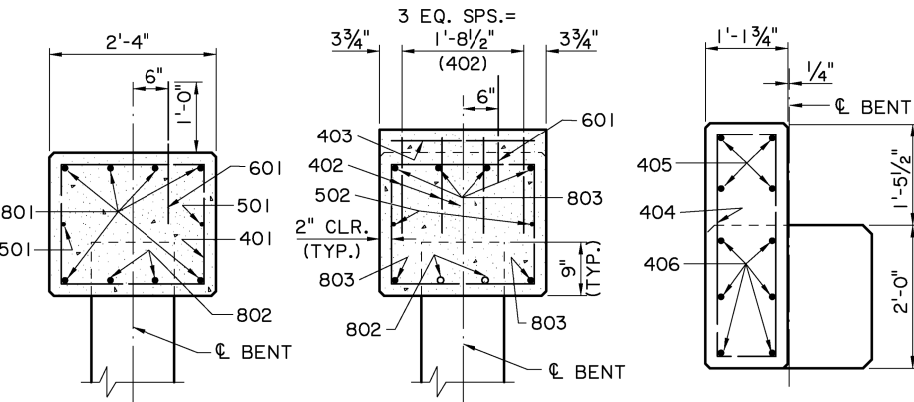


PLAN - END BENT
SCALE: 3/8" = 1'-0"



HALF ELEVATION - INTERMEDIATE BENT
SCALE: 3/8" = 1'-0"

HALF ELEVATION - END BENT
SCALE: 3/8" = 1'-0"

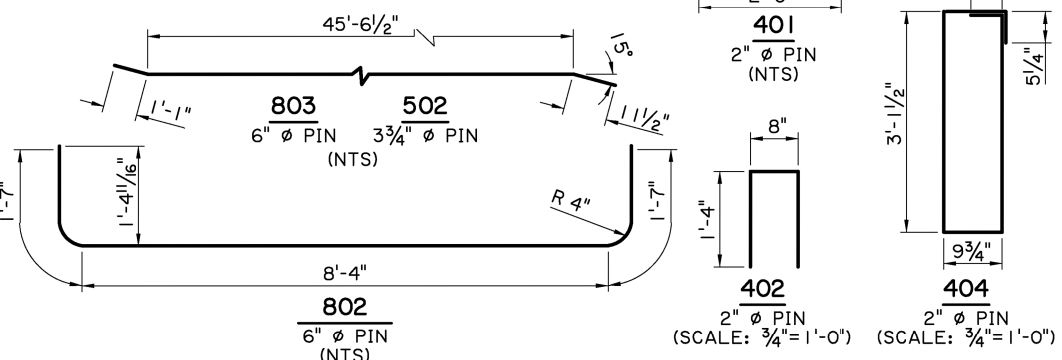


SECTION A-A
SCALE: 3/4" = 1'-0"

SECTION B-B
SCALE: 3/4" = 1'-0"

END ELEVATION
SCALE: 3/4" = 1'-0"

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.505	
HL-93 (OPR)	1.951	
LADV-11 (INV)	1.158	MAGNIFICATION FACTOR = 1.3



ESTIMATED QUANTITIES (ONE INTER. BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	6	47'-10"	287'-0"	LONGIT. IN CAP
802	8	11'-6"	92'-0"	LONGIT. IN CAP BETWEEN PILES
TOTAL NO. 8 BARS = 379'-0" = 1012 LBS.				
601	31	2'-0"	62'-0"	DOWELS
TOTAL NO. 6 BARS = 62'-0" = 93 LBS.				
501	2	47'-10"	95'-8"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 95'-8" = 100 LBS.				
401	68	8'-2"	555'-4"	STIRRUPS IN CAP
402	4	3'-4"	13'-4"	STIRRUPS IN RISER
403	2	2'-0"	4'-0"	LONGIT. IN RISER
TOTAL NO. 4 BARS = 572'-8" = 383 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1588 LBS.				
* CLASS A1 CONCRETE = 8.11 CU. YDS.				
* MAX. PILE LOAD: SERVICE DEAD LOAD = 29 TONS				
SERVICE LIVE LOAD = 41 TONS				
FACTORED TOTAL LOAD = 96 TONS				
* ADD 93 LBS. OF REINFORCING STEEL (31-60I DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.				

ESTIMATED QUANTITIES (ONE END BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
802	8	11'-6"	92'-0"	LONGIT. IN CAP BETWEEN PILES
803	6	47'-7"	285'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 377'-6" = 1008 LBS.				
601	31	2'-0"	62'-0"	DOWELS
TOTAL NO. 6 BARS = 62'-0" = 93 LBS.				
502	2	47'-7"	95'-2"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 95'-2" = 99 LBS.				
401	70	8'-2"	571'-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
TOTAL NO. 4 BARS = 729'-8" = 487 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1687 LBS.				
* CLASS A1 CONCRETE = 8.91 CU. YDS.				
* MAX. PILE LOAD: SERVICE DEAD LOAD = 29 TONS				
SERVICE LIVE LOAD = 41 TONS				
FACTORED TOTAL LOAD = 96 TONS				
* 16" # PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD .06 CU. YDS. OF CLASS A1 CONCRETE PER BENT WHEN 14" # PPC PILES ARE USED.)				

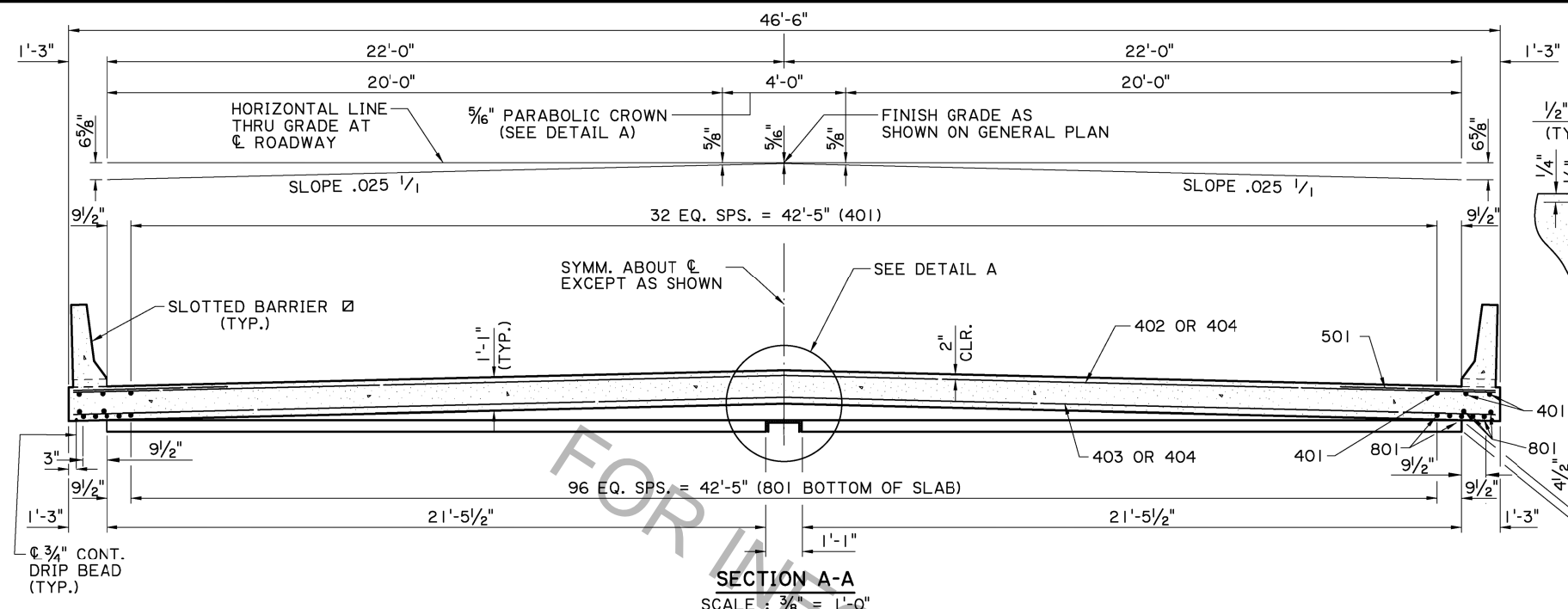
BENT NOTES:

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-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. 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 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 (60I 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 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.

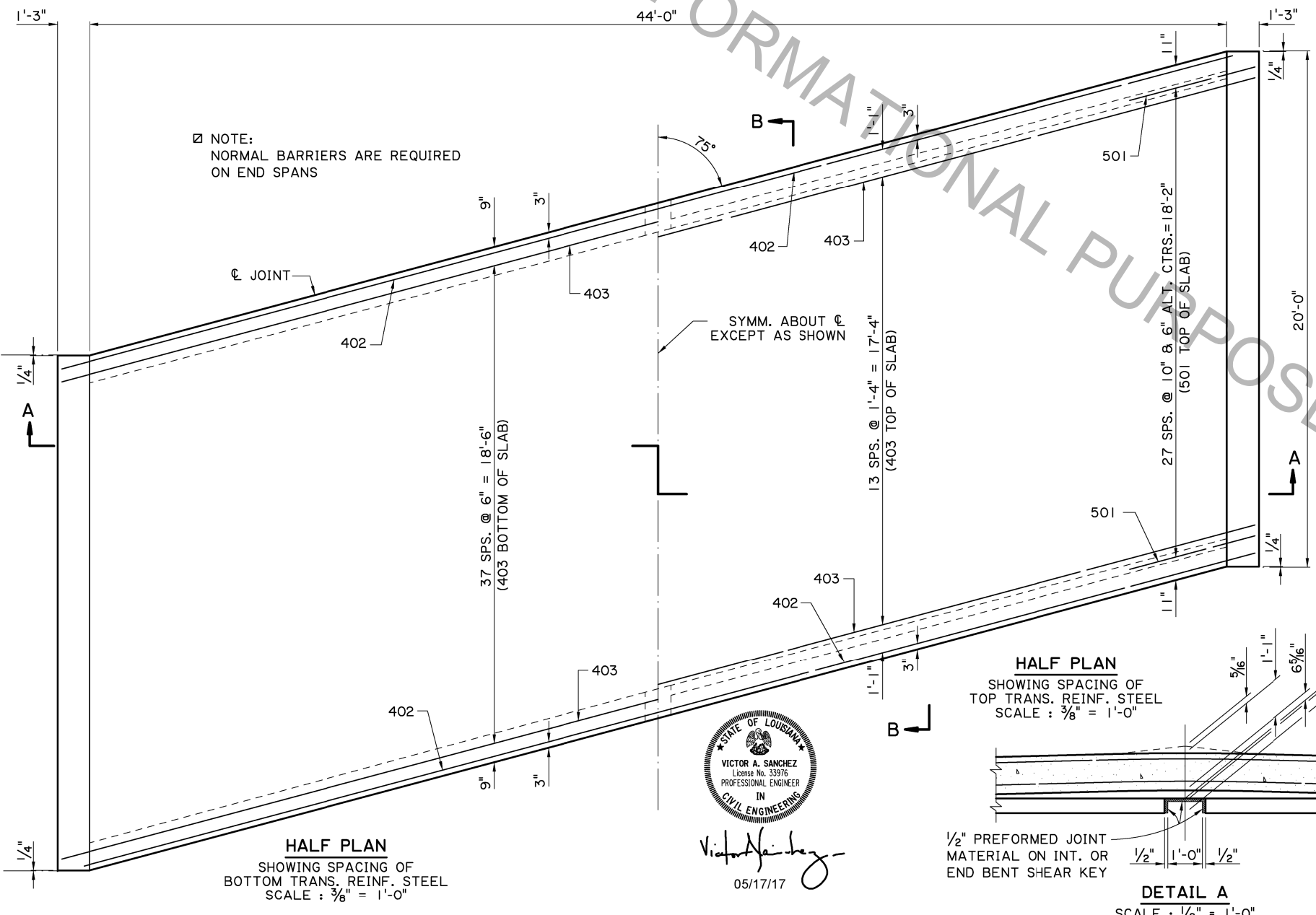
SHEET NUMBER	NO.	DATE	BY
DESIGNED	B. DELATTE	REVISION OR CHANGE ORDER DESCRIPTION	
CHECKED	J. NAKHLEH		
CONTROL SECTION	D. HYMEL		
STATE PROJECT	J. NAKHLEH		
SERIES #	05/17/17		

REINFORCED CONCRETE PILE BENT
44'-0" CLEAR ROADWAY
75' CROSSING TWO WAY TANGENT

DOTD
BRIDGE DESIGN



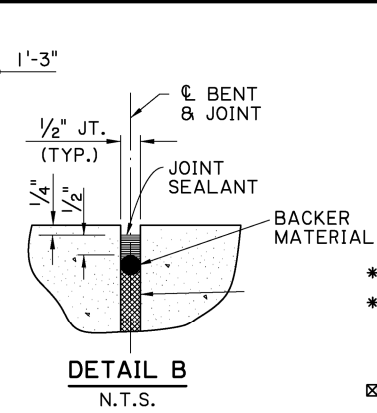
SECTION A-A
SCALE: 3/8" = 1'-0"



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"

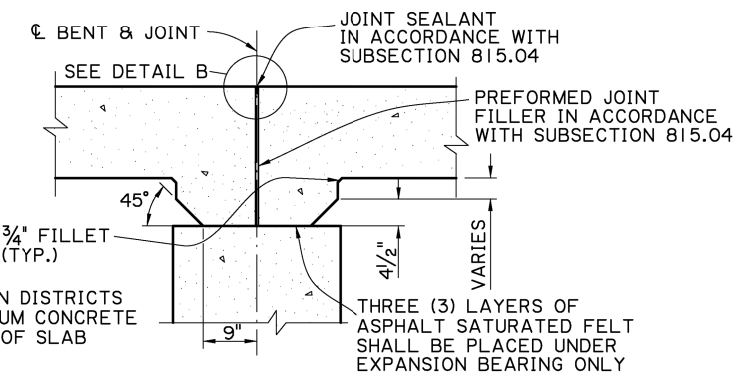
DETAIL A
SCALE: 1/2" = 1'-0"



DETAIL B
N.T.S.

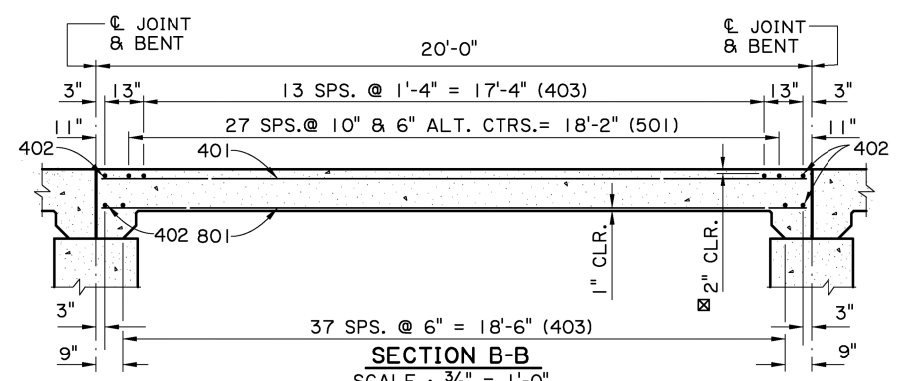
SPAN NOTES:

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 201 I).
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 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.1.1.1.0.0.1 (GR-200) FOR GUARD RAIL REQUIREMENTS.
BARRIER RAILING: FOR BARRIER RAILING DETAILS, SEE STANDARD DETAIL BD.2.6.1.1.4.01 (BR-02).



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

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.435	
HL-93 (OPR)	1.861	
LADV-11 (INV)	1.104	MAGNIFICATION FACTOR = 1.3



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

ESTIMATED QUANTITIES (ONE SPAN)				
BAR NO.	UNIT	TOTAL LENGTH	LOCATION	
801	108	19'-7"	2115'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 2115'-0" = 5647 LBS.				
501	56	5'-0"	280'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 280'-0" = 292 LBS.				
401	37	19'-7"	724'-7"	LONGIT. TOP OF SLAB
402	4	48'-6"	194'-0"	TRANS. TOP & BOT. OF SLAB
403	52	49'-5"	2569'-8"	TRANS. TOP & BOT. OF SLAB
TOTAL NO. 4 BARS = 3488'-3" = 2330 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 8269 LBS.				
CLASS A1 CONCRETE = 39.44 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.



Victor A. Sanchez
05/17/17

SHEET NUMBER: _____

DESIGNED BY: J. NAKHLEH, J. PAINE
CHECKED BY: J. J. _____

DATE: 05/17/17

PROJECT: 20'-0" CONCRETE SLAB SPAN
44'-0" CLEAR ROADWAY
75° CROSSING TWO WAY TANGENT

REVISION OR CHANGE ORDER DESCRIPTION: _____

NO. _____ DATE _____

DOTD
DOT BRIDGE DESIGN