

ESTIMATED QUANTITIES (ONE INTER. BENT) BAR NO. LOCATION LENGTH LENGTH 292'-0" LONGIT. IN CAP 48'-8" 90'-8" LONGIT. IN CAP 11'-4" TOTAL NO. 8 BARS = 382'-8" I,022 LBS. 2'-0" 62'-0" DOWELS 31 TOTAL NO. 6 BARS = 62'-0" 93 LBS. 97'-4" | LONGIT. IN CAP 48'-8" TOTAL NO. 5 BARS = 97'-4" 102 LBS. 604'-4" STIRRUPS IN CAP 402 4 3'-5" STIRRUPS IN RISER 403 2'-3" 4'-6" LONGIT. IN RISER TOTAL NO. 4 BARS = 622'-6" = 416 TOTAL DEFORMED REINFORCING STEEL = 1,633 LBS.

= 8.26 CU. YDS. CLASS AT CONCRETE

SERVICE DEAD LOAD = 30 TONS MAX. PILE LOAD: SERVICE LIVE LOAD = 42 TONS TOTAL FACTORED LOAD = 100 TONS

\* ADD 93 LBS. OF REINFORCING STEEL (31-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

E	ESTIMATED QUANTITIES (ONE END BENT)							
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION				
802	8	11'-4"	90'-8"	LONGIT. IN CAP				
803	4	48'-3"	193'-0"	LONGIT. IN CAP				
804	2	48'-4"	96'-8"	LONGIT. IN CAP				
TOTAL NO. 8 BARS = 380'-4" = 1,015 LBS.								
601	31	2'-0"		DOWELS				
TOTA	AL NO	. 6 BAR	s = 62'-C	)" = 93 LBS.				
502	2	48'-3"		LONGIT. IN CAP				
TOT	TOTAL NO. 5 BARS = 96'-6" = 101 LBS.							
401	76	8'-2"	620'-8"	STIRRUPS IN CAP				
402	4	3'-5"	3'-8"	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				
TOTA	TOTAL NO. 4 BARS = 779-6" = 521 LBS.							
TOTA	TOTAL DEFORMED REINFORCING STEEL = 1,730 LBS.							
CLAS	CLASS AI CONCRETE = 9.01 CU. YDS.							
MAX.	MAX. PILE LOAD: SERVICE DEAD LOAD = 30 TONS SERVICE LIVE LOAD = 42 TONS							

⊖ 16" # PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.06 CU. YDS. OF CLASS AI CONCRETE PER BENT WHEN 14" Ø PF PILES ARE USED.)

TOTAL FACTORED LOAD = 100 TONS

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

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,

<u>TION, WITH 2008 & 2009 INTERIMS.</u>

1'-6%"

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 SHAI 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. I#2" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS AI 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 3/6" 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.

BEN NFORCED CONC 40'-O" CLEAF CROSSING TW

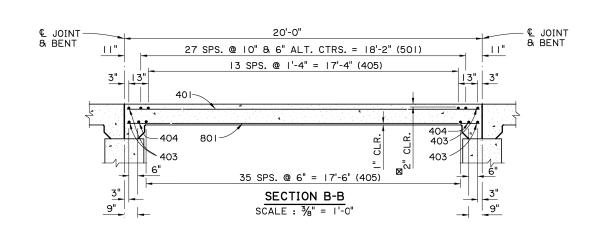
**60**°

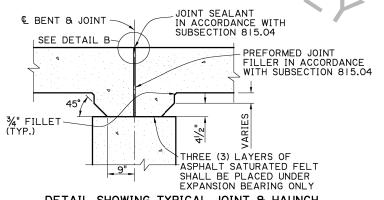
	ESTIMATED QUANTITIES (ONE SPAN)							
	BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION			
	801	89	19'-6"	1735'-6"	LONGIT. BOT. OF SLAB			
	802	8	19'-7"	156'-8"	LONGIT. BOT. OF SLAB			
	TOTAL NO. 8 BARS =  892'-2" = 5053 LBS.							
	501	56	5'-0"	280'-0"	TRANS. TOP OF SLAB			
	TOTAL NO. 5 BARS = 280'-0" = 292 LBS.				·O" = 292 LBS.			
	401	30	19'-6"	585'-0"	LONGIT. TOP OF SLAB			
	402	4	19'-7"	78'-4"	LONGIT. TOP OF SLAB			
*	403	4	49'-2"	196'-8"	TRANS. TOP & BOT. OF SLAB			
*	404	2	50'-2"	100'-4"	TRANS. BOT. OF SLAB			
*	405	50	50'-4"	2516'-8"	TRANS. TOP & BOT. OF SLAB			
	TOTAL NO. 4 BARS = 3477-0" = 2323 LBS.							
	TOTAL DEFORMED REINFORCING STEEL = 7668 LBS.							
	CLASS AT CONCRETE = 36.06 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.

AS-DESIGNED RATING					
VEHICLE	RATING FACTOR	NOTES			
HL-93 (INV)	1.410				
HL-93 (OPR)	1.828				
LADV-II (INV)	1.085	MAGNIFICATION FACTOR = 1.3			





1'-3"

402 (TYP.) 802 (TYP.)

91/2"

\_1'-3"

DETAIL SHOWING TYPICAL JOINT & HAUNCH

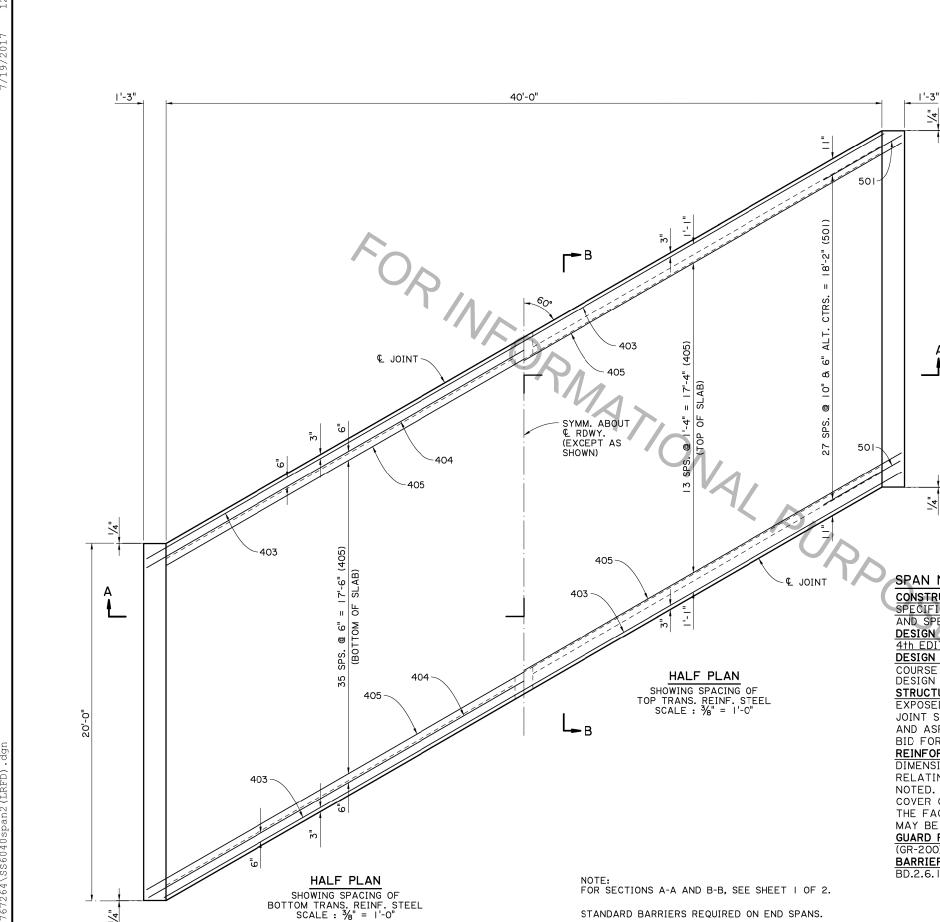
SCALE : 1/2" = 1'-0"





DESIGNED J. NAKHLEH CHECKED J. PAINE
DETAILED D. HYMEL
GRECKED B. DELATTE
STEVENEND OS/17/17
STENENS H. OF 2







SPAN NOTES:

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

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 LOAD 2011).

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS AI.

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 AL CONCRETE BID FOR CLASS AT 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.2.6.1.14.02 (BR-02).



