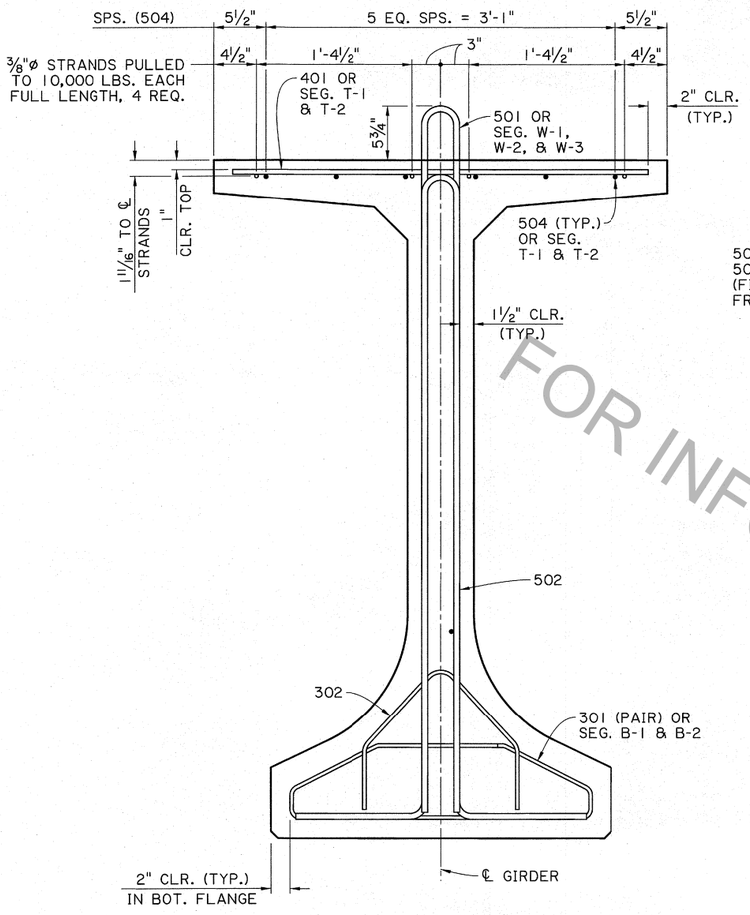
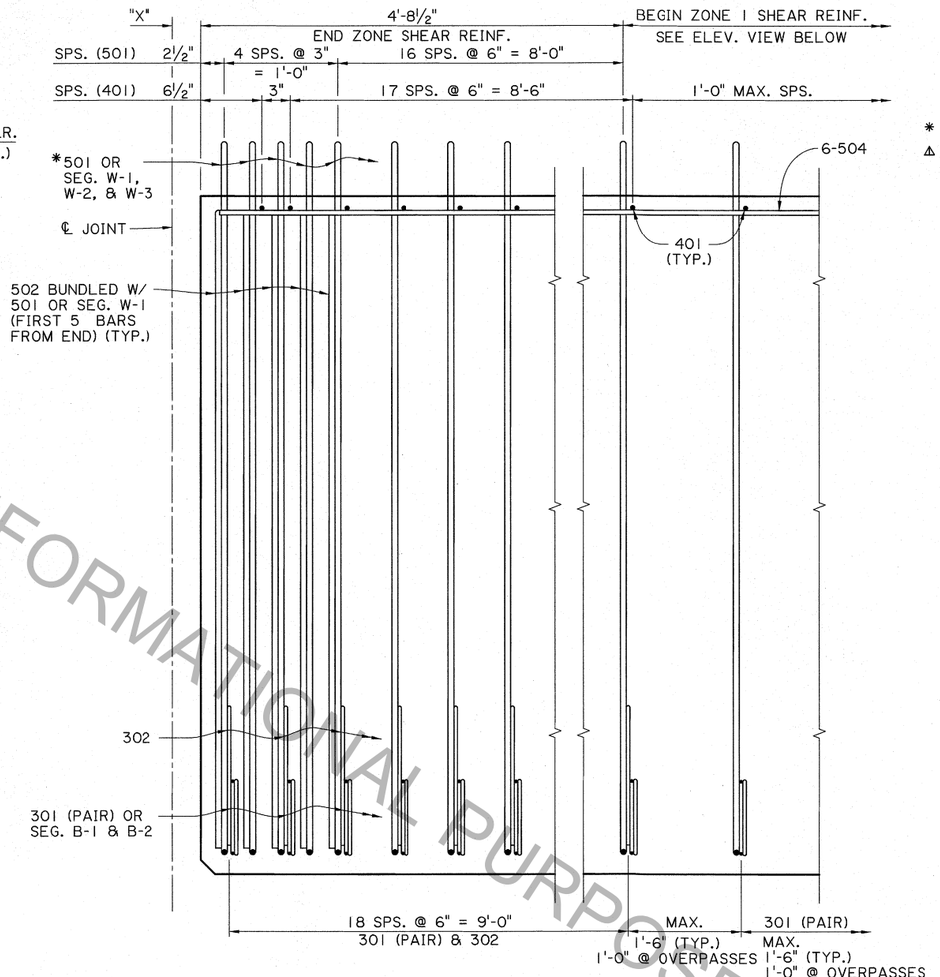
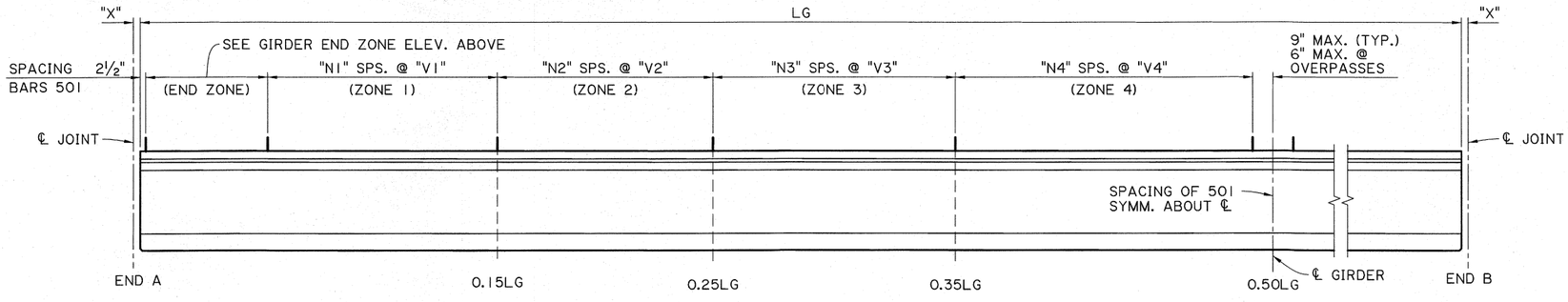


GIRDER END SECTION



ELEVATION OF GIRDER END ZONE
(FLANGE LINES NOT SHOWN FOR CLARITY)



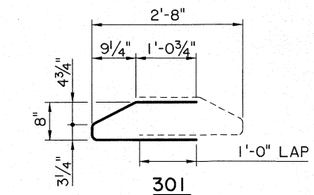
GIRDER ELEVATION
(N.T.S.)

LIST OF CONVENTIONAL REINFORCEMENT

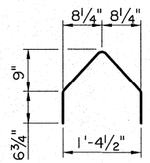
	BAR	NO.	UNIT LENGTH	LOCATION
	501	VARIES	15'-2"	STIRRUP
	502	10	11'-6"	STIRRUP (BUNDLE W/ 501)
*	503	VARIES	13'-11"	STIRRUP (ALT. FOR 501)
⚠	504	6	LG LESS 4"	TOP FLANGE LONG. REINF.
	401	VARIES	3'-8"	TOP FLANGE TRANS. REINF.
	301	VARIES	4'-0"	CONFINEMENT REINF.
	302	38	3'-2"	CONFINEMENT REINF.

⚠ UNIT LENGTH SHOWN DOES NOT INCLUDE LAPS FOR CONTINUOUS REINFORCEMENT. FOR UNIT LENGTH OVER 60 FT., ADD 2'-0" FOR EACH LAP SPLICE.

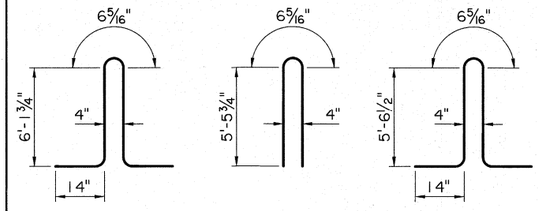
BENDING DIAGRAMS



301
(1½"ø PIN)



302
(1½"ø PIN)



501
(2½"ø PIN, 90° BEND)
(2¾"ø PIN, 180° BEND)

502
(2¾"ø PIN)

503
(2½"ø PIN, 90° BEND)
(2¾"ø PIN, 180° BEND)

NOTES:

1. SEE SHEET 1 OF LG GIRDER COMMON DETAILS FOR GENERAL NOTES AND DEFINITIONS.
2. SEE SHEET 2 OF 2 FOR DETAILS OF WWR TO REPLACE CONVENTIONAL REINFORCEMENT.
3. CONVENTIONAL REINFORCING BARS 302 & 502 SHALL NOT BE REPLACED WITH WWR.
4. AT THE CONTRACTOR'S EXPENSE, THE PAIR OF BARS 301 MAY BE FABRICATED AS A SINGLE BAR WITH A 1'-0" MINIMUM LAP.

* 5. AT GIRDER ENDS WHERE AN EXPANSION JOINT ASSEMBLY IS REQUIRED, SUBSTITUTE 503 BARS FOR THE FIRST (3) 501 BARS. SEE LG COMMON DETAILS (SHT. 11 OF 11) FOR EXPANSION JOINT ANCHOR BOLT DETAIL.

STATE OF LOUISIANA
ZHENGZHENG FU
License No. 26814
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
7/19/18

BD.2.2.4.7.01

SHEET NUMBER --

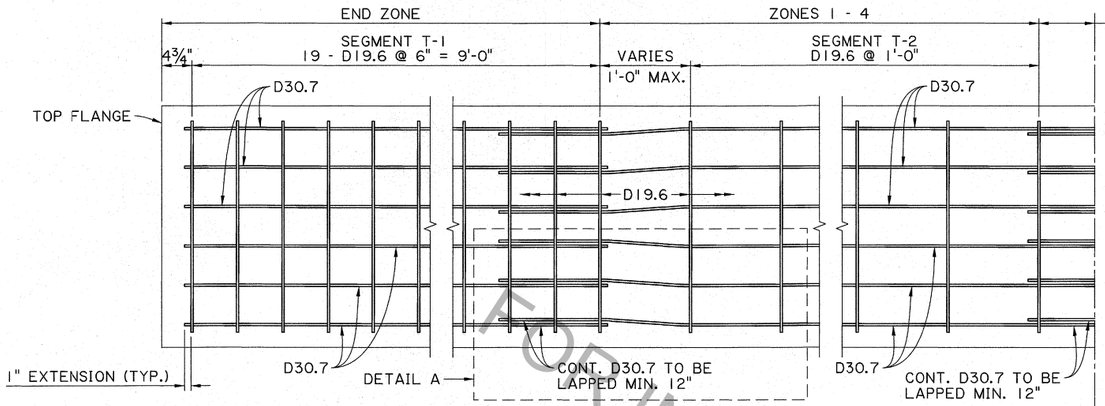
PARISH	CONTROL SECTION	STATE PROJECT

DESIGNED Z. LIANG
CHECKED B. KEYER
DETAILED D. BASTION
CHECKED Y. OUYANG
REVIEWED Z. Z. FU
SERIES # 1 OF 2

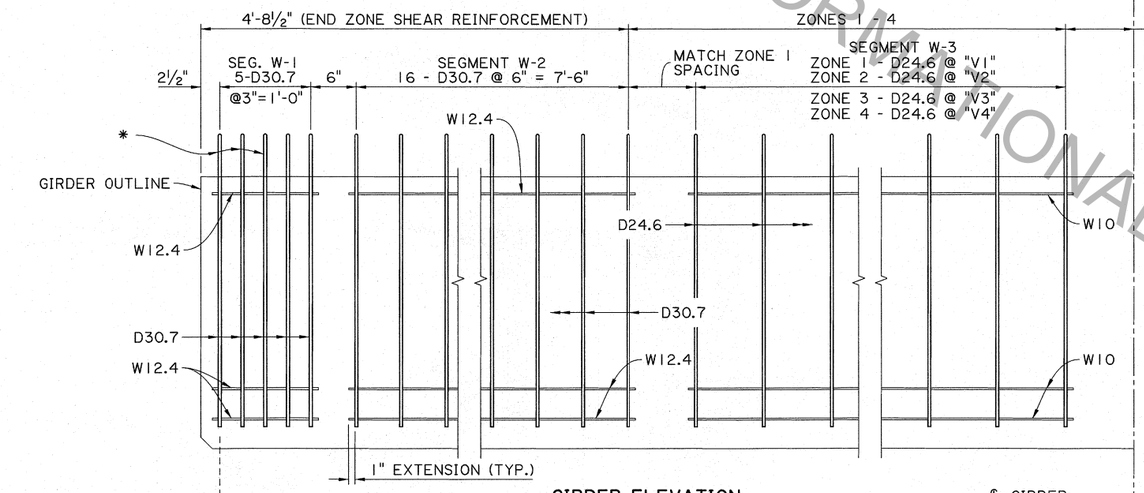
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

LG-72 - REINFORCEMENT
CONVENTIONAL REINFORCEMENT
LG-72

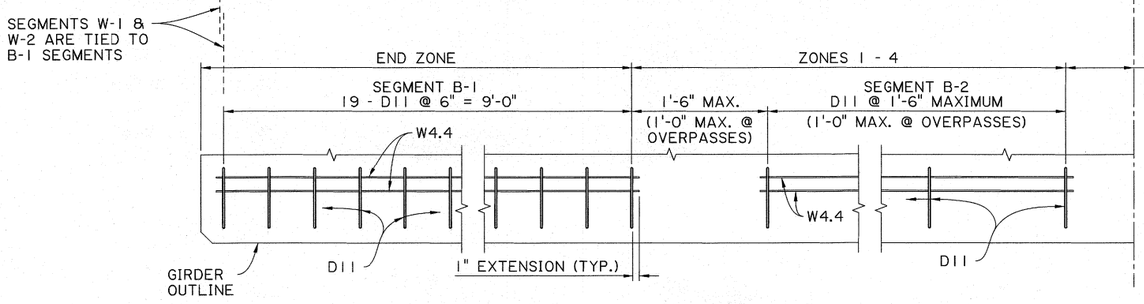
DOTD BRIDGE DESIGN



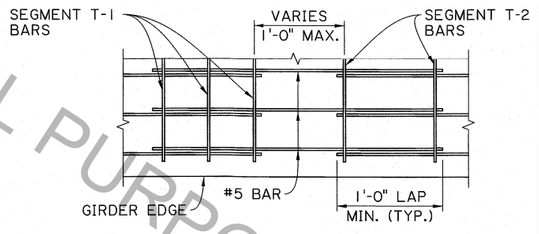
GIRDER PLAN VIEW
(SHOWING TOP FLANGE WWR TO REPLACE BARS 401)



GIRDER ELEVATION
(SHOWING WEB WWR TO REPLACE BARS 501)



PARTIAL GIRDER ELEVATION
(SHOWING BOTTOM FLANGE WWR TO REPLACE BARS 301)

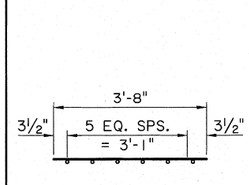


DETAIL A - REINFORCEMENT ALTERNATIVE
(WWR WITH #5 DROP IN BAR ALTERNATIVE)

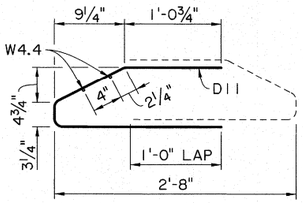
LIST OF WELDED WIRE REINFORCEMENT

SEG.	SIZE	NO. BARS	UNIT LENGTH	LOCATION
T-1	D19.6	38	3'-8"	TRANSV. TOP FLANGE REINF.
	D30.7	6	9'-2"	LONG. TOP FLANGE REINF.
T-2	D19.6	VARIES	3'-8"	TRANSV. TOP FLANGE REINF.
	D30.7	6	VARIES	LONG. TOP FLANGE REINF.
W-1	D30.7	10	12'-8"	STIRRUP
W-2	D30.7	32	12'-8"	STIRRUP
W-3	D24.6	VARIES	12'-8"	STIRRUP
B-1	D11	76	4'-0"	CONFINEMENT REINF.
B-2	D11	VARIES	4'-0"	CONFINEMENT REINF.

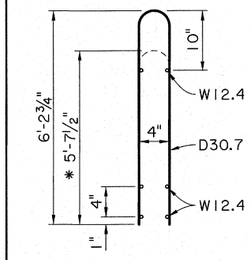
BENDING DIAGRAMS



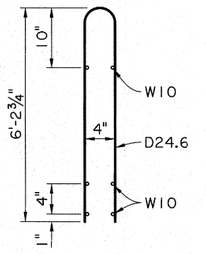
SEGMENTS T-1 & T-2



SEGMENTS B-1 & B-2



SEGMENTS W-1 & W-2



SEGMENT W-3

NOTES:

1. THE REQUIRED AREAS OF WEB WWR IN ZONES 1-4 TO REPLACE BARS 501 HAVE BEEN REDUCED IN PROPORTION TO THE INCREASE IN WWR YIELD STRENGTH OF 75 KSI. ALL OTHER WWR SIZES ARE EQUIVALENT TO CONVENTIONAL REINFORCEMENT SIZES. WWR SIZES SHOWN ARE MINIMUM REQUIREMENTS. AT CONTRACTOR'S OPTION, BAR SIZES LARGER THAN THESE MINIMUM SIZES MAY BE PROVIDED.
2. SEGMENTS MAY BE FABRICATED IN MULTIPLE LENGTH SECTIONS. THE CONTRACTOR SHALL ALIGN SEGMENTS SO THAT THE WIRE SPACING REMAINS CONSISTENT.
3. SUPPLEMENTAL TRANSVERSE #4 BARS ARE PERMITTED TO SUPPORT SEGMENTS W-1, W-2, AND W-3 UNDER THE CROSS WIRES ON THE BOTTOM ROW OF STRANDS.
* 4. AT GIRDER ENDS WHERE AN EXPANSION JOINT ASSEMBLY IS REQUIRED, THE FIRST THREE STIRRUPS IN SEGMENT W-1 SHALL BE FABRICATED TO 5'-7½" IN HEIGHT. SEE LG COMMON DETAILS (SHT. 11 OF 11) FOR EXPANSION JOINT ANCHOR BOLT DETAIL.

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SHEET NUMBER --

PARISH | CONTROL SECTION | STATE PROJECT

DESIGNED Z. LIANG
CHECKED B. KEVER
DETAILED B. KEVER
CHECKED Y. OUYANG
REVIEWED Z. FU
SERIES # 2 OF 2

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

STATE OF LOUISIANA

LG-72 - REINFORCEMENT
WELDED WIRE REINFORCEMENT
LG-72

DOTD BRIDGE DESIGN