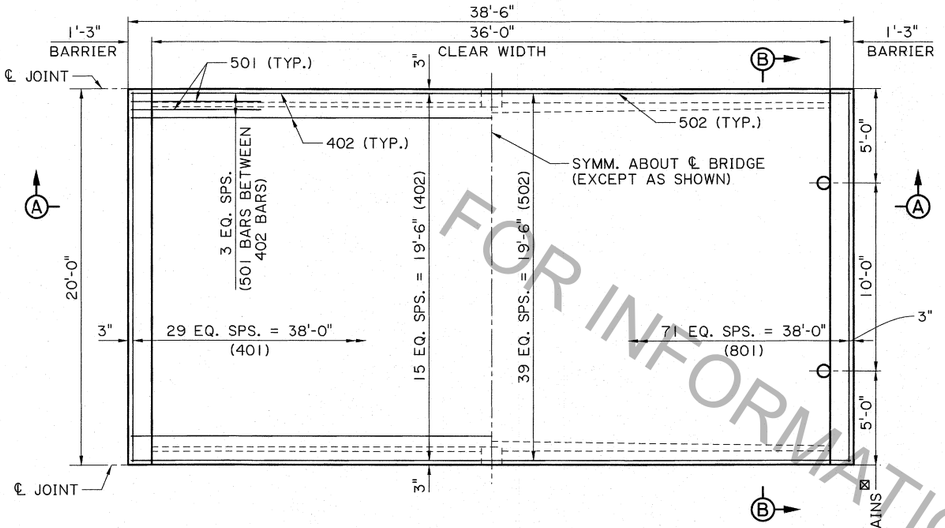
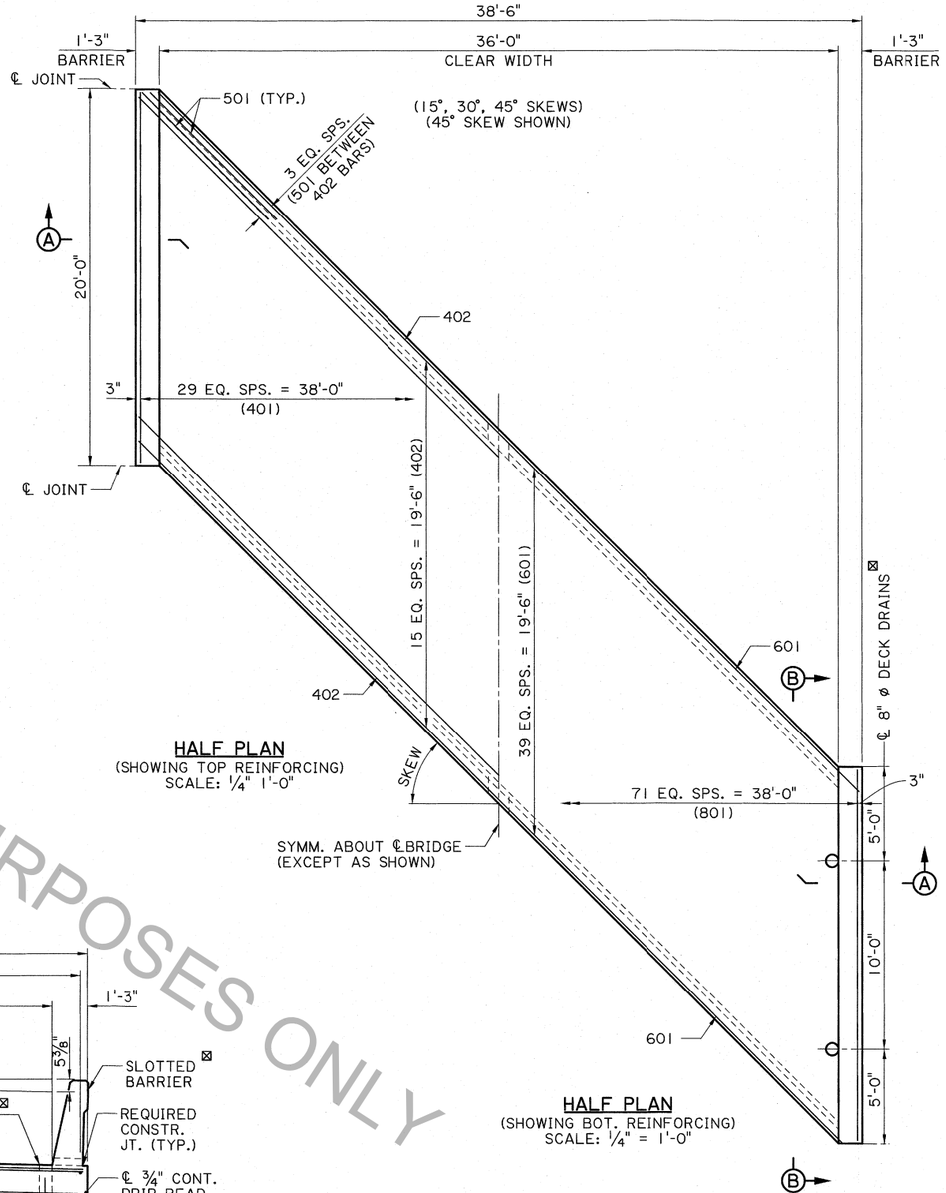


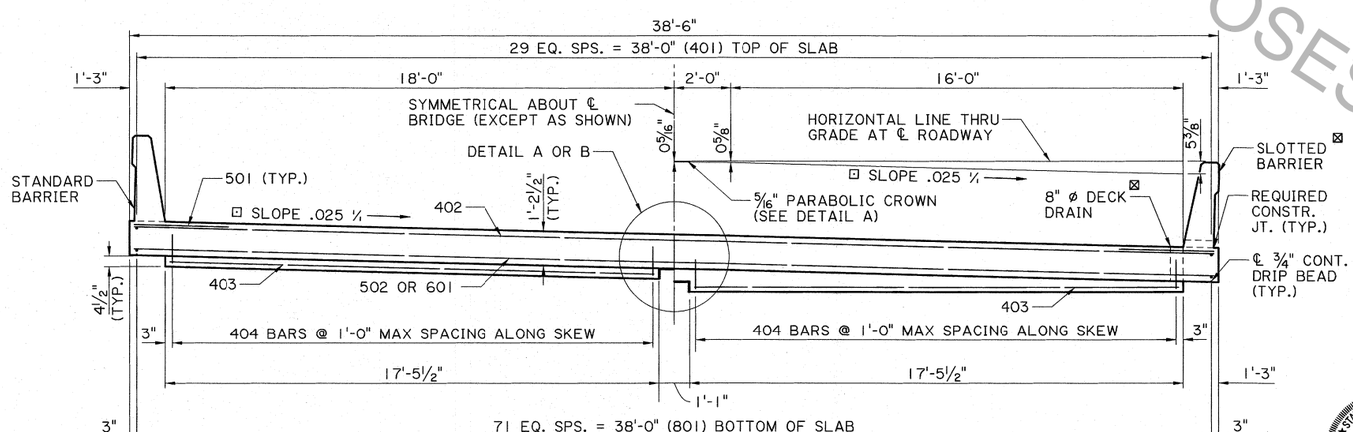
HALF PLAN - 0° SKEW
(SHOWING TOP REINFORCING)
SCALE: 1/4" = 1'-0"

HALF PLAN - 0° SKEW
(SHOWING BOT. REINFORCING)
SCALE: 1/4" = 1'-0"



HALF PLAN
(SHOWING TOP REINFORCING)
SCALE: 1/4" 1'-0"

HALF PLAN
(SHOWING BOT. REINFORCING)
SCALE: 1/4" = 1'-0"



HALF SECTION
(ONE-WAY TANGENT ROADWAY SHOWN)
SCALE: 3/8" = 1'-0"

HALF SECTION
(TWO-WAY TANGENT ROADWAY SHOWN)
SCALE: 3/8" = 1'-0"

SECTION A-A

STATE OF LOUISIANA
HAMED BABAIZADEH
License No. 42317
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Hamed Babaizadeh
4/2/2018

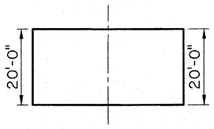
NOTES:
1. SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.
⊡ 2. UNLESS NOTED OTHERWISE IN PLANS.
⊠ 3. UNLESS OTHERWISE NOTED IN THE PLANS, SLOTTED BARRIER OR 8" ø DECK DRAINS SHALL BE USED ON LOW SIDE(S) OF BRIDGE. SLOTTED BARRIER OR DECK DRAINS ARE NOT REQUIRED ON END SPANS. CONCRETE BRIDGE RAILING (STANDARD) SHALL BE USED OTHERWISE.
SEE GENERAL PLAN FOR REQUIRED DRAINAGE TYPE AND LOCATIONS.
SEE MISC. SPAN SPECIAL DETAILS FOR DECK DRAINS.

SHEET NUMBER
PARISH
CONTROL SECTION
STATE PROJECT
DESIGNED BABAIZADEH
CHECKED A.WINDMANN
DETAILED A.KUYORO
CHECKED A.WINDMANN
REVIEWED A.LANCASTER
SERIES # 1 OF 2
NO. DATE REVISION OR CHANGE ORDER DESCRIPTION BY

SLAB SPAN
SPAN DETAILS
36' CLEAR WIDTH

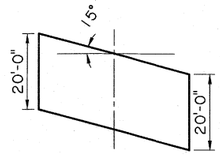
SPECIAL DETAIL BD.2.1.1.4.01 - SLAB SPAN DETAILS

DOTD BRIDGE DESIGN



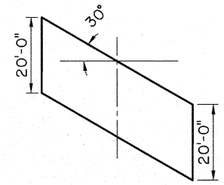
0°

EST. QUANTITIES - ONE SPAN (0° SKEW)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	72	19'-6"	1,404'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,404'-0" = 3,749 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
502	40	38'-0"	1,520'-0"	TRANS. BOT. OF SLAB
TOTAL NO. 5 BARS = 1,820'-0" = 1,898 LB				
401	30	19'-6"	585'-0"	LONGIT. TOP OF SLAB
402	16	38'-0"	608'-0"	TRANS. TOP OF SLAB
403	8	17'-0"	136'-0"	LONGIT. IN HAUNCH
404	72	2'-11"	210'-0"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,539'-0" = 1,028 LB				
TOTAL DEFORMED REINFORCING STEEL = 6,675 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 35.72 CUYD				
⊠ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTOMERIC BEARING PAD = 27 SFIN				



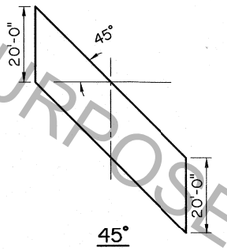
15°

EST. QUANTITIES - ONE SPAN (15° SKEW)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	72	19'-6"	1,404'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,404'-0" = 3,749 LB				
601	40	39'-5"	1,576'-8"	TRANS. BOT. OF SLAB
TOTAL NO. 6 BARS = 1,576'-8" = 2,368 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 300'-0" = 313 LB				
401	30	19'-6"	585'-0"	LONGIT. TOP OF SLAB
402	16	39'-5"	630'-8"	TRANS. TOP OF SLAB
403	8	17'-7"	140'-8"	LONGIT. IN HAUNCH
404	76	2'-11"	221'-8"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,578'-0" = 1,054 LB				
TOTAL DEFORMED REINFORCING STEEL = 7,484 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 35.76 CUYD				
⊠ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTOMERIC BEARING PAD = 28 SFIN				



30°

EST. QUANTITIES - ONE SPAN (30° SKEW)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	72	19'-6"	1,404'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,404'-0" = 3,749 LB				
601	40	44'-0"	1,760'-0"	TRANS. BOT. OF SLAB
TOTAL NO. 6 BARS = 1,760'-0" = 2,644 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 300'-0" = 313 LB				
401	30	19'-6"	585'-0"	LONGIT. TOP OF SLAB
△ 402	16	45'-8"	730'-8"	TRANS. TOP OF SLAB
403	8	19'-8"	157'-4"	LONGIT. IN HAUNCH
404	84	2'-11"	245'-0"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,718'-0" = 1,148 LB				
TOTAL DEFORMED REINFORCING STEEL = 7,854 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 35.92 CUYD				
⊠ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTOMERIC BEARING PAD = 32 SFIN.				



45°

EST. QUANTITIES - ONE SPAN (45° SKEW)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	72	19'-6"	1,404'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1404'-0" = 3,749 LB				
601	40	54'-0"	2,160'-0"	TRANS. BOT. OF SLAB
TOTAL NO. 6 BARS = 2,160'-0" = 3,244 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 300'-0" = 313 LB				
401	30	19'-6"	585'-0"	LONGIT. TOP OF SLAB
△ 402	16	55'-8"	890'-8"	TRANS. TOP OF SLAB
403	8	24'-3"	194'-0"	LONGIT. IN HAUNCH
404	104	2'-11"	303'-4"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,973'-0" = 1,318 LB				
TOTAL DEFORMED REINFORCING STEEL = 8,624 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 36.27 CUYD				
⊠ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTOMERIC BEARING PAD = 39 SFIN				

NOTES:

△ 1. INCLUDES ONE 1'-8" LAP SPLICE FOR 402 BARS, TO BE STAGGERED.

⊠ 2. SLOTTED BARRIER SHALL BE USED ON LOW SIDE OF BRIDGE AS CALLED FOR IN THE PLANS. CONCRETE BRIDGE RAILING (STANDARD) SHALL BE USED OTHERWISE.

⊖ 3. CONCRETE QUANTITIES SHOWN ARE FOR TWO-WAY TANGENT SLABS. FOR ONE-WAY TANGENTS, SUBTRACT THE FOLLOWING FROM THE QUANTITY SHOWN:

0° SKEW: 0.50 CUYD
15° SKEW: 0.51 CUYD
30° SKEW: 0.57 CUYD
45° SKEW: 0.70 CUYD

STATE OF LOUISIANA
HAMED BABAIZADEH
License No. 42317
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Hamed Babaizadeh
4/2/2018

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

DESIGNED BABAIZADEH
CHECKED A.WINDMANN
DETAILED A.KUYORO
CHECKED A.WINDMANN
REVIEWED A.LANCASTER
SERIES # 2 OF 2

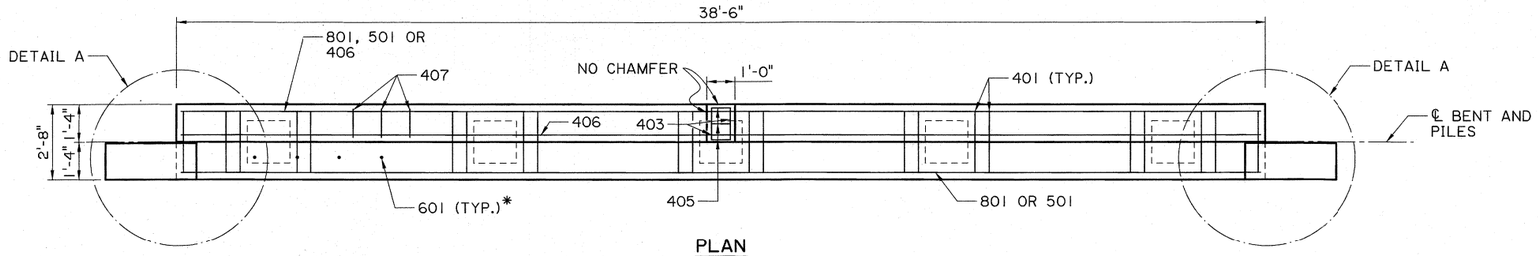
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

SLAB SPAN

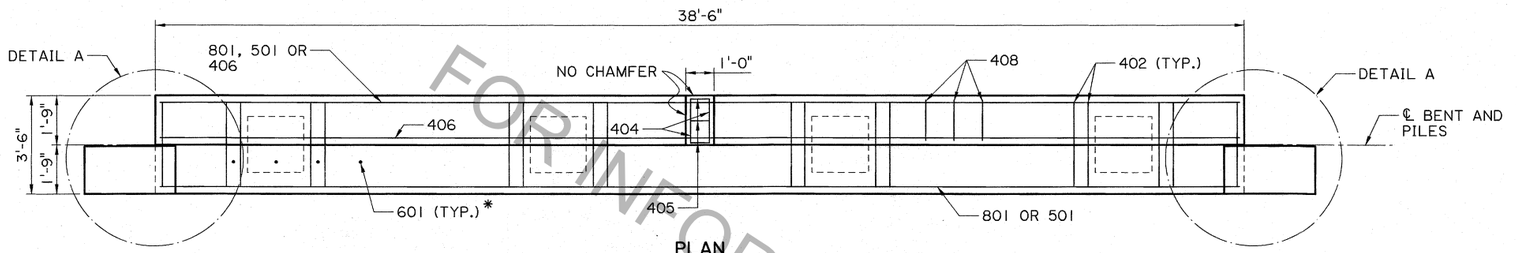
SPAN QUANTITIES
36' CLEAR WIDTH

SPECIAL DETAIL BD.2.1.1.4.02 - SLAB SPAN DETAILS

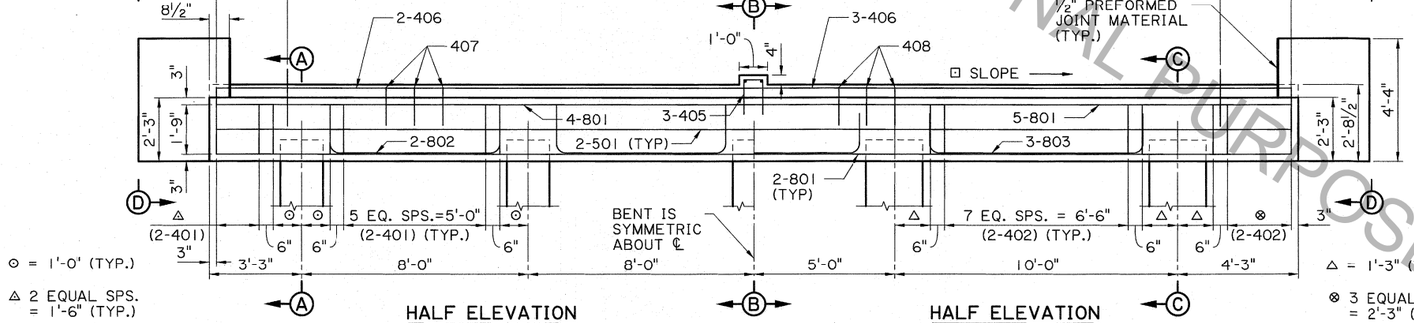
DOTD BRIDGE DESIGN



PLAN
(18" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

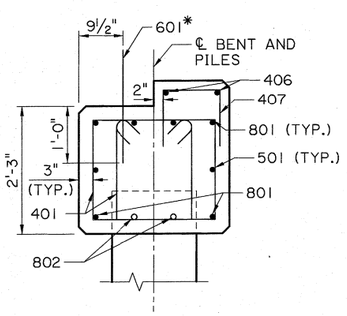


PLAN
(24" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

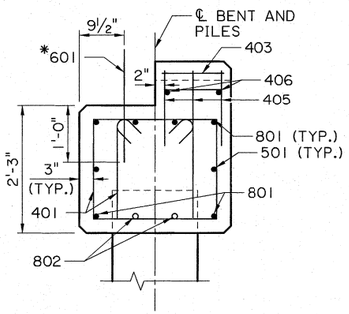


HALF ELEVATION
(18" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

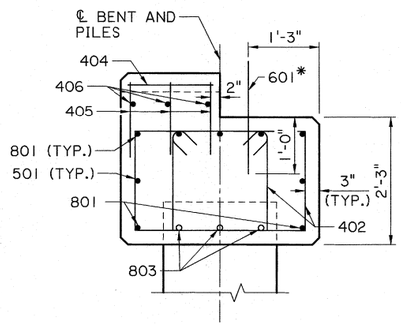
HALF ELEVATION
(24" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"



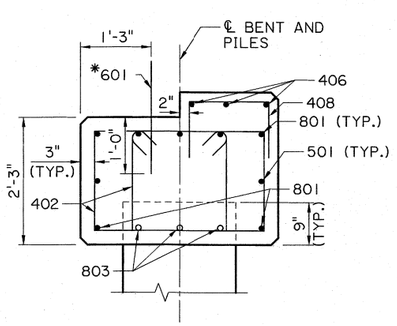
SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
(18" ø PILE ALT.)
SCALE: 3/4" = 1'-0"



SECTION B-B
(24" ø PILE ALT.)
SCALE: 3/4" = 1'-0"



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

ESTIMATED QUANTITIES (ONE BENT) - 18"ø PILE				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	38'-0"	228'-0"	LONGIT. IN CAP
802	8	8'-6"	68'-0"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 296'-0" = 791 LB				
601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 70 LB				
501	2	38'-0"	76'-0"	LONGIT. IN CAP & RISER
TOTAL NO. 5 BARS = 76'-0" = 80 LB				
401	80	7'-11"	633'-4"	STIRRUPS IN CAP
403	2	1'-0"	2'-0"	LONGIT. IN KEY
405	3	3'-4"	10'-0"	STIRRUPS IN KEY
406	2	38'-0"	76'-0"	LONGIT. IN RISER
407	39	3'-8"	143'-0"	STIRRUPS IN RISER
409	12	2'-10"	34'-0"	LONGIT. IN WINGWALL
410	12	4'-0"	48'-0"	LONGIT. IN WINGWALL
411	10	10'-3"	102'-6"	STIRRUPS IN WINGWALL
TOTAL NO. 4 BARS = 1,048'-10" = 701 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,642 LB				
CLASS A1 CONCRETE (BENT CAP) = 9.44 CUYD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 31 TONS SERVICE LIVE LOAD = 45 TONS FACTORED TOTAL LOAD = 105 TONS				

ESTIMATED QUANTITIES (ONE BENT) - 24"ø PILE				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	7	38'-0"	266'-0"	LONGIT. IN CAP
803	9	10'-0"	90'-0"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 356'-0" = 951 LB				
601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 70 LB				
501	2	38'-0"	76'-0"	LONGIT. IN CAP & RISER
TOTAL NO. 5 BARS = 76'-0" = 80 LB				
402	80	9'-1"	726'-8"	STIRRUPS IN CAP
404	2	1'-5"	2'-10"	LONGIT. IN KEY
405	3	3'-4"	10'-0"	STIRRUPS IN KEY
406	3	38'-0"	114'-0"	LONGIT. IN RISER
408	39	4'-1"	159'-3"	STIRRUPS IN RISER
409	12	2'-10"	34'-0"	LONGIT. IN WINGWALL
410	12	4'-0"	48'-0"	LONGIT. IN WINGWALL
412	10	11'-1"	110'-10"	STIRRUPS IN WINGWALL
TOTAL NO. 4 BARS = 1,205'-7" = 806 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,907 LB				
CLASS A1 CONCRETE (BENT CAP) = 12.39 CUYD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 40 TONS SERVICE LIVE LOAD = 54 TONS FACTORED TOTAL LOAD = 131 TONS				

NOTES:
1. SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.

* 2. SEE "601 DOWELS" NOTE IN SLAB SPAN GENERAL NOTES.

⊡ 3. 0% FOR TWO-WAY TANGENTS. FOR ONE-WAY TANGENT ROADWAYS, MATCH SLOPE OF SLAB.

STATE OF LOUISIANA
HAMED BABAIZADEH
License No. 42017
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Hamed Babaizadeh
4/2/2018

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

DESIGNED BABAIZADEH
CHECKED A.WINDMANN
DETAILED A.WINDMANN
CHECKED BABAIZADEH
REVIEWED A.LANCASTER
SERIES # 1 OF 2

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DOTD BRIDGE DESIGN

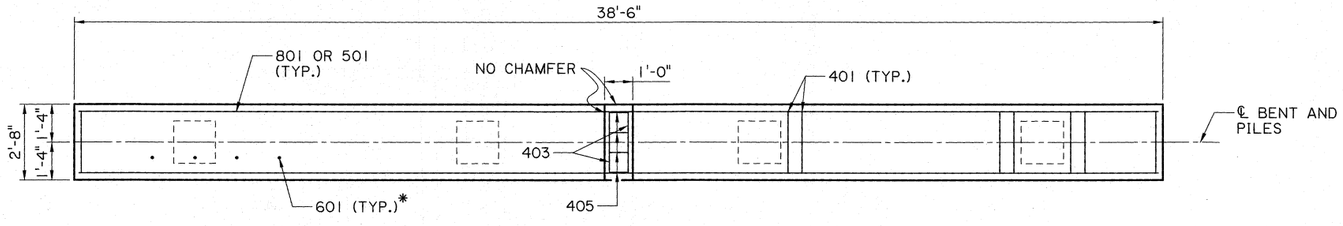
SPECIAL DETAIL BD.2.1.1.4.03 - SLAB SPAN DETAILS

END BENT

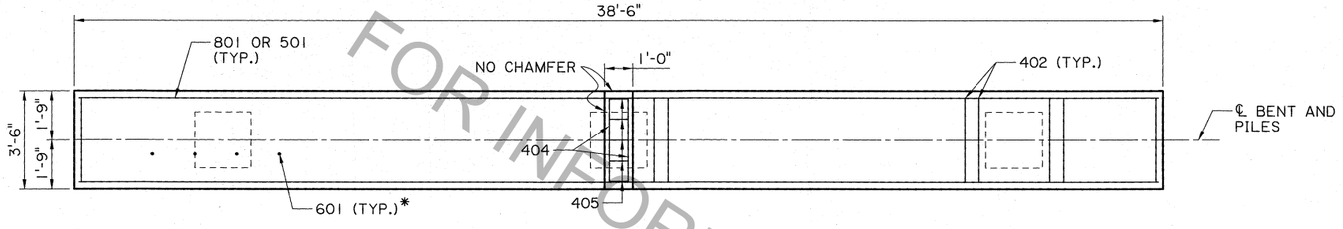
BENT DETAILS AND QUANTITIES
36' CLEAR WIDTH, 0° SKEW

4/2/2018 08:20

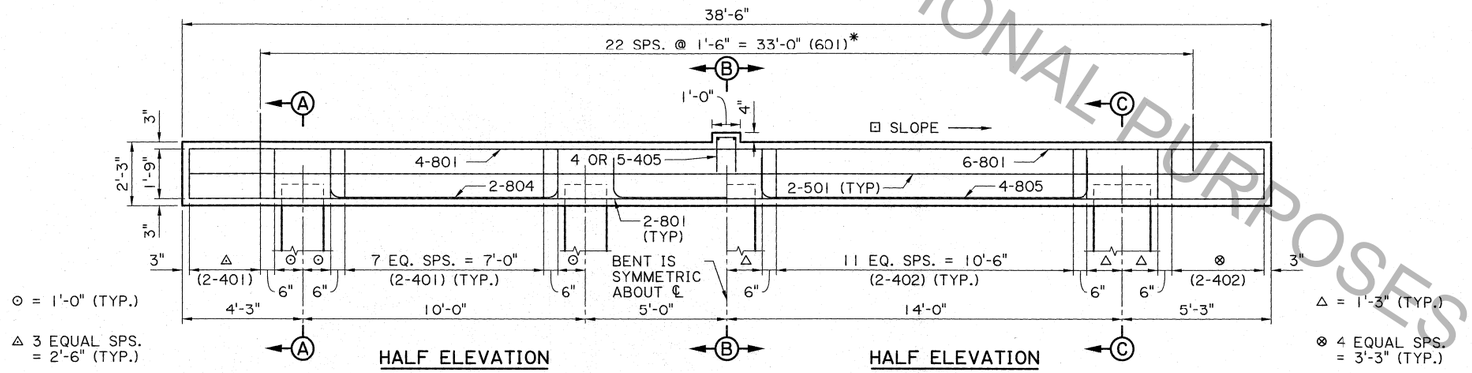
IP_PWP:d0768981\BD.2.1.1.4.03 - 36' Wide_0 Skew End Bent_raster.dgn



PLAN
(18" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

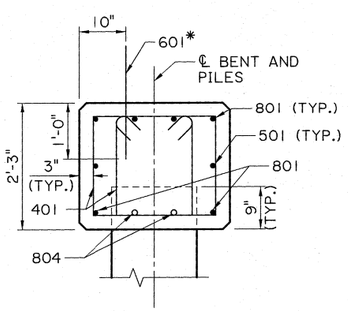


PLAN
(24" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

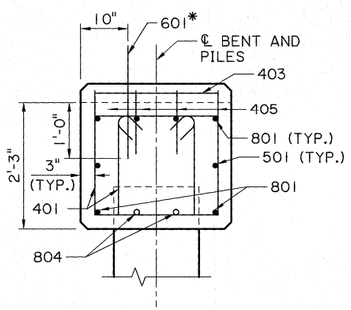


HALF ELEVATION
(18" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"

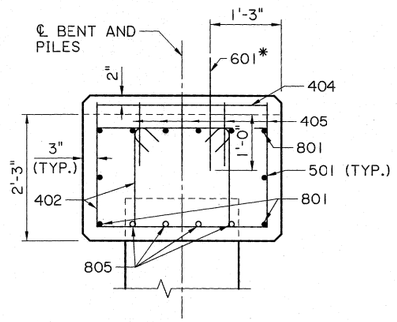
HALF ELEVATION
(24" ø PILE ALTERNATE)
SCALE: 3/8" = 1'-0"



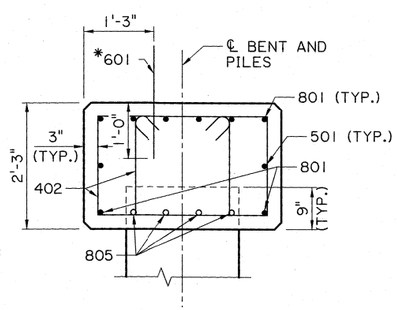
SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
(18" ø PILE ALT.)
SCALE: 3/4" = 1'-0"



SECTION B-B
(24" ø PILE ALT.)
SCALE: 3/4" = 1'-0"



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

ESTIMATED QUANTITIES (ONE BENT) - 18"ø PILE				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	38'-0"	228'-0"	LONGIT. IN CAP
804	6	10'-6"	63'-0"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 291'-0" = 777 LB				
⊠ 601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 70 LB				
501	2	38'-0"	76'-0"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 76'-0" = 80 LB				
401	80	7'-11"	633'-4"	STIRRUPS IN CAP
403	2	2'-4"	4'-8"	LONGIT. IN KEY
405	4	3'-4"	13'-4"	STIRRUPS IN KEY
TOTAL NO. 4 BARS = 651'-4" = 436 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,363 LB				
CLASS A1 CONCRETE (BENT CAP) = 8.34 CUYD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS SERVICE LIVE LOAD = 46 TONS FACTORED TOTAL LOAD = 102 TONS				

ESTIMATED QUANTITIES (ONE BENT) - 24"ø PILE				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	8	38'-0"	304'-0"	LONGIT. IN CAP
805	8	14'-0"	112'-0"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 416'-0" = 1,111 LB				
⊠ 601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 70 LB				
501	2	38'-0"	76'-0"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 76'-0" = 80 LB				
402	80	9'-1"	726'-8"	STIRRUPS IN CAP
404	2	3'-2"	6'-4"	LONGIT. IN KEY
405	5	3'-4"	16'-8"	STIRRUPS IN KEY
TOTAL NO. 4 BARS = 749'-8" = 501 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,762 LB				
CLASS A1 CONCRETE (BENT CAP) = 10.94 CUYD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 34 TONS SERVICE LIVE LOAD = 65 TONS FACTORED TOTAL LOAD = 151 TONS				

NOTES:

1. SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.

* 2. SEE "601 DOWELS" NOTE IN SLAB SPAN GENERAL NOTES.

⊡ 3. 0% FOR TWO-WAY TANGENTS. FOR ONE-WAY TANGENT ROADWAYS, MATCH SLOPE OF SLAB.

⊠ 4. ADD 70 LBS. OF REINFORCING STEEL (23-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

STATE OF LOUISIANA
HAMED BABAIZADEH
License No. 42317
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
4/2/2018

SHEET NUMBER

DESIGNED	BABAIZADEH
CHECKED	A.WINDMANN
DETAILED	A.WINDMANN
CHECKED	BABAIZADEH
REVIEWED	A.LANCASTER
SERIES #	2 OF 2

PARISH | CONTROL SECTION | STATE PROJECT

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

INTERMEDIATE BENT

BENT DETAILS AND QUANTITIES
36' CLEAR WIDTH, 0° SKEW

SPECIAL DETAIL | BD.2.1.1.4.04 - SLAB SPAN DETAILS

DOTD BRIDGE DESIGN