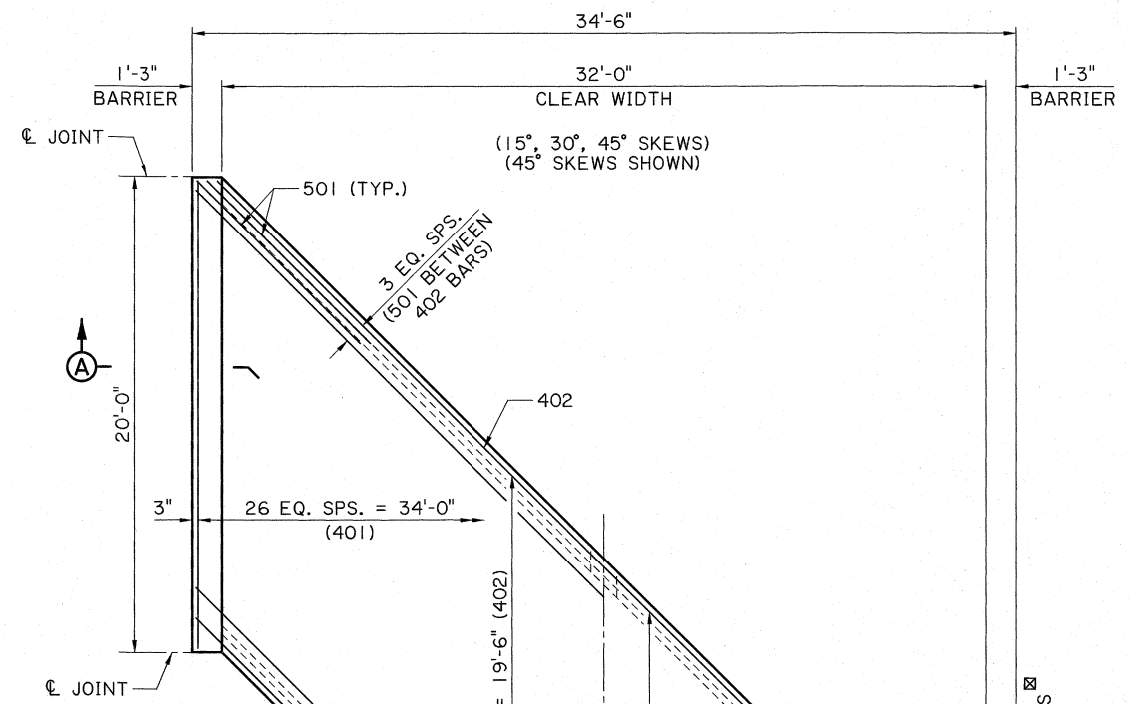


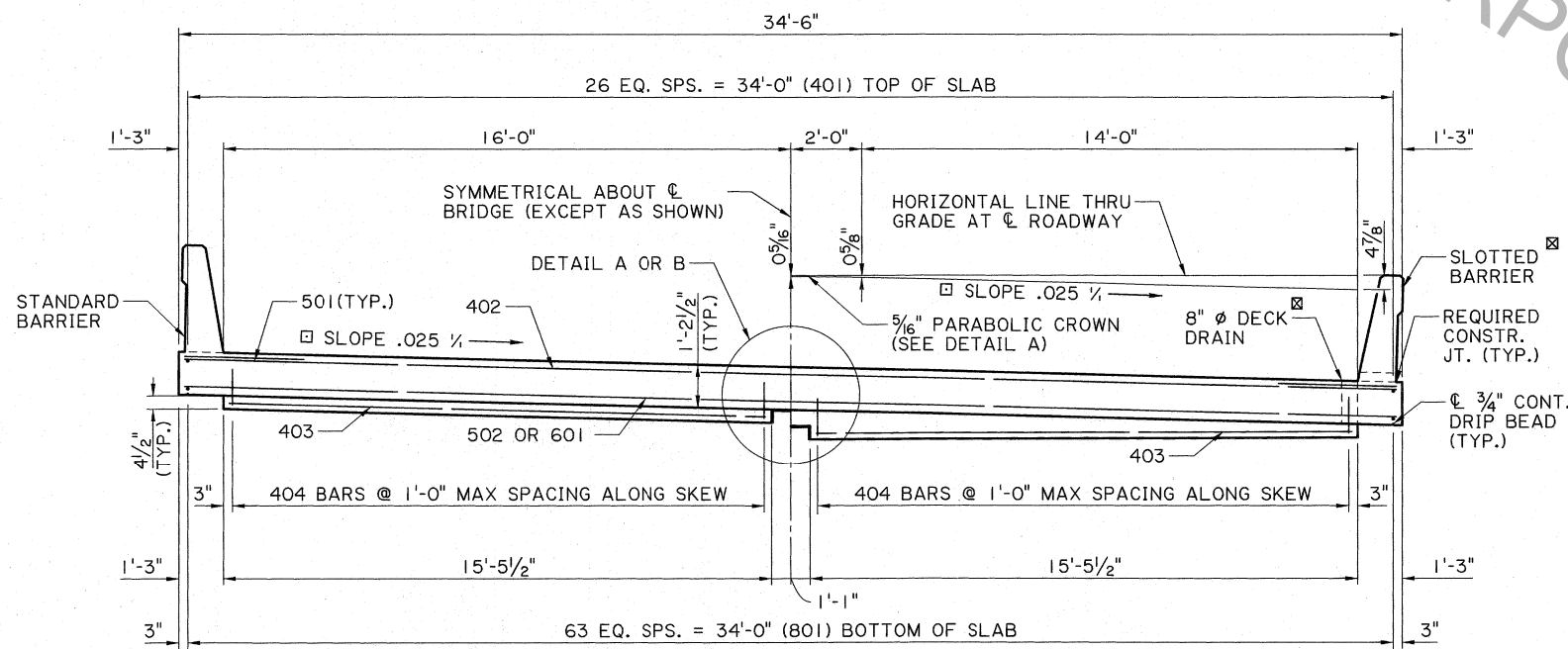
HALF PLAN - 0° SKEW
(SHOWING TOP REINFORCING)
SCALE: 1/4" = 1'-0"

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"




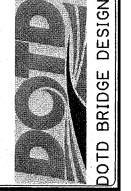
HALF SECTION
(ONE-WAY TANGENT ROADWAY SHOWN)
SCALE: 3/8" = 1'-0"

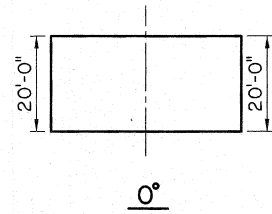
SECTION A-A

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



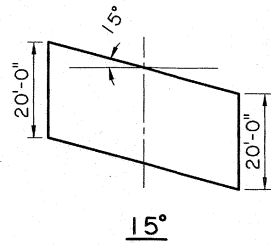
- NOTES:**
1. SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.
 2. UNLESS NOTED OTHERWISE IN PLANS.
 3. UNLESS OTHERWISE NOTED IN THE PLANS, SLOTTED BARRIER OR 8" Ø DECK DRAINS SHALL BE USED ON LOW SIDE(S) OF BRIDGE. SLOTTED BARRIER OR DECK DRAINS ARE NOT REQUIRED ON END SPANS. CONCRETE 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	
DESIGNED	BABALAZADEH
CHECKED	A. WINDMANN
CONTROL SECTION	A. KUYORO
REVIEWED	BABALAZADEH
STATE PROJECT	A. BAMLIGO
SERIES #	1 OF 2
BY	
REVISION OR CHANGE ORDER DESCRIPTION	
NO.	
DATE	
	
SLAB SPAN SPAN DETAILS 32' CLEAR WIDTH BD.2.1.1.3.01 - SLAB SPAN DETAILS	
	



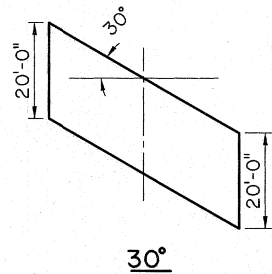
EST. QUANTITIES - ONE SPAN (0° SKEW)

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	64	19'-6"	1,248'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,248'-0" = 3,332 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
502	40	34'-0"	1,360'-0"	TRANS. BOT. OF SLAB
TOTAL NO. 5 BARS = 1,660'-0" = 1,731 LB				
401	27	19'-6"	526'-6"	LONGIT. TOP OF SLAB
402	16	34'-0"	544'-0"	TRANS. TOP OF SLAB
403	8	15'-0"	120'-0"	LONGIT. IN HAUNCH
404	64	2'-11"	186'-8"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,377'-2" = 920 LB				
TOTAL DEFORMED REINFORCING STEEL = 5,983 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 31.99 CUYD				
☒ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTROMETRIC BEARING PAD = 24 SFIN				



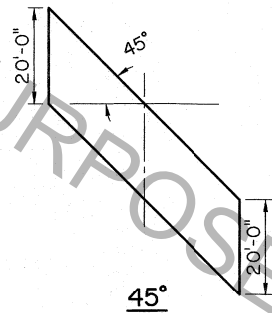
EST. QUANTITIES - ONE SPAN (15° SKEW)

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	64	19'-6"	1,248'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,248'-0" = 3,332 LB				
601	40	35'-3"	1,410'-0"	TRANS. BOT. OF SLAB
TOTAL NO. 6 BARS = 1,410'-0" = 2,118 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 300'-0" = 313 LB				
401	27	19'-6"	526'-6"	LONGIT. TOP OF SLAB
402	16	35'-3"	564'-0"	TRANS. TOP OF SLAB
403	8	15'-7"	124'-8"	LONGIT. IN HAUNCH
404	68	2'-11"	198'-4"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,413'-6" = 944 LB				
TOTAL DEFORMED REINFORCING STEEL = 6,707 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 32.04 CUYD				
☒ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTROMETRIC BEARING PAD = 25 SFIN				



EST. QUANTITIES - ONE SPAN (30° SKEW)

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	64	19'-6"	1,248'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,248'-0" = 3,332 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	27	19'-6"	526'-6"	LONGIT. TOP OF SLAB
402	16	39'-5"	630'-8"	TRANS. TOP OF SLAB
403	8	17'-5"	139'-4"	LONGIT. IN HAUNCH
404	76	2'-11"	221'-8"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,518'-2" = 1,014 LB				
TOTAL DEFORMED REINFORCING STEEL = 7,027 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 32.18 CUYD				
☒ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTROMETRIC BEARING PAD = 28 SFIN				



EST. QUANTITIES - ONE SPAN (45° SKEW)

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	64	19'-6"	1,248'-0"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1,248'-0" = 3,332 LB				
601	40	48'-4"	1,933'-4"	TRANS. BOT. OF SLAB
TOTAL NO. 6 BARS = 1,933'-4" = 2,904 LB				
501	60	5'-0"	300'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 300'-0" = 313 LB				
401	27	19'-6"	526'-6"	LONGIT. TOP OF SLAB
402	16	50'-0"	800'-0"	TRANS. TOP OF SLAB
403	8	21'-5"	171'-4"	LONGIT. IN HAUNCH
404	92	2'-11"	268'-4"	STIRRUPS IN HAUNCH
TOTAL NO. 4 BARS = 1,766'-2" = 1,180 LB				
TOTAL DEFORMED REINFORCING STEEL = 7,729 LB				
⊖ CLASS A1 CONCRETE (SLAB SPAN) = 32.48 CUYD				
☒ CONCRETE BRIDGE RAILING = 40 LNFT				
ELASTROMETRIC BEARING PAD = 34 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: 0.44 CUYD
 - 15° SKEW: 0.46 CUYD
 - 30° SKEW: 0.51 CUYD
 - 45° SKEW: 0.62 CUYD

SHEET NUMBER		PARISH	CONTROL SECTION	STATE PROJECT	
DESIGNED	BABAIZADEH	CHECKED	A. WINDMANN	REVIEWED	A. BAMUGO
DATE		DATE		DATE	
NO.		NO.		NO.	
REVISION OR CHANGE ORDER DESCRIPTION					
BY					

Hamed Babaizadeh
4/2/2018

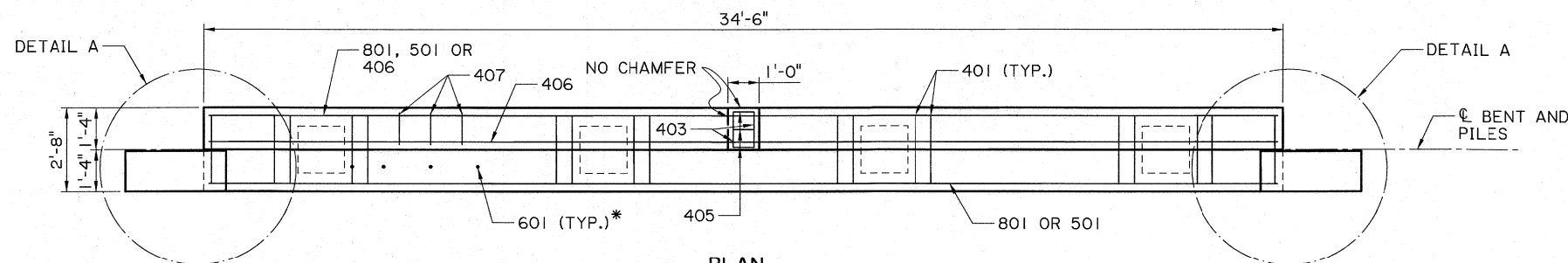
SLAB SPAN

SPAN DETAILS AND QUANTITIES

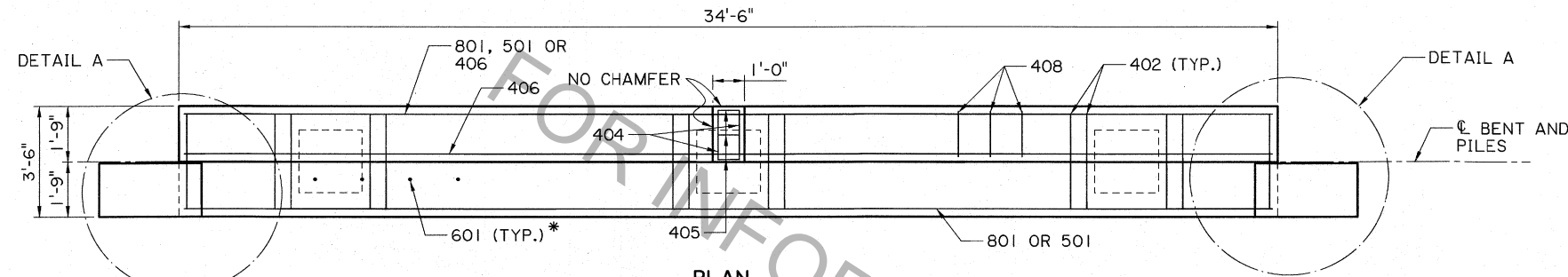
32' CLEAR WIDTH

BD-2.1.1.3.02 - SLAB SPAN DETAILS

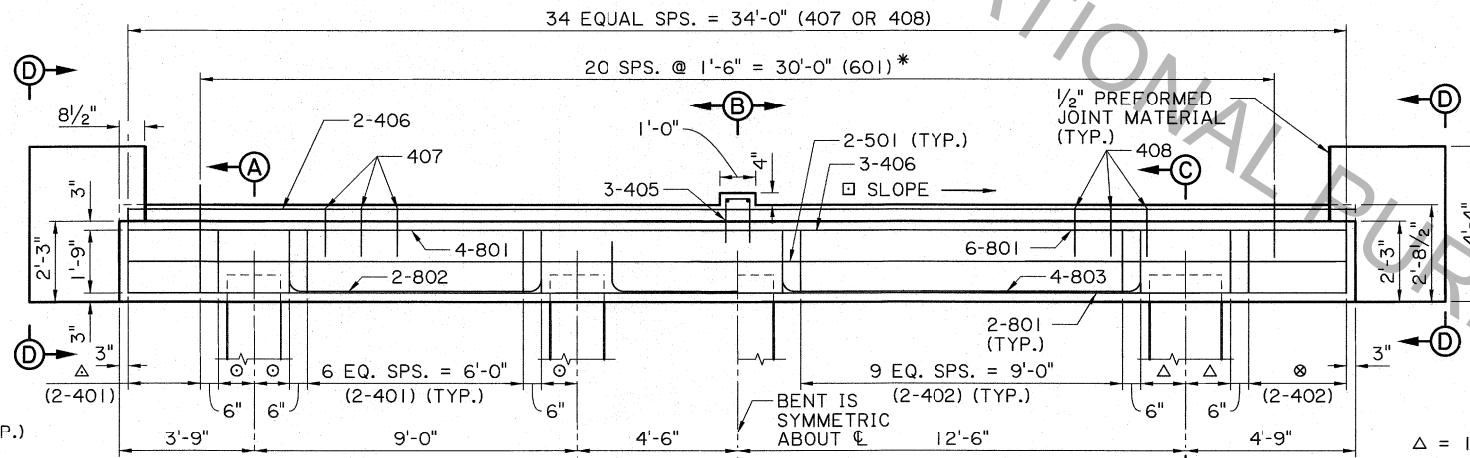
DOTD
DOT BRIDGE DESIGN



PLAN
(18" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

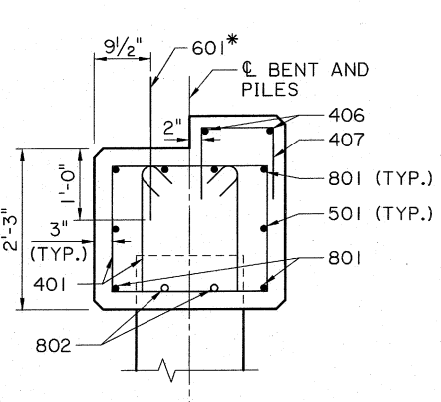


PLAN
(24" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

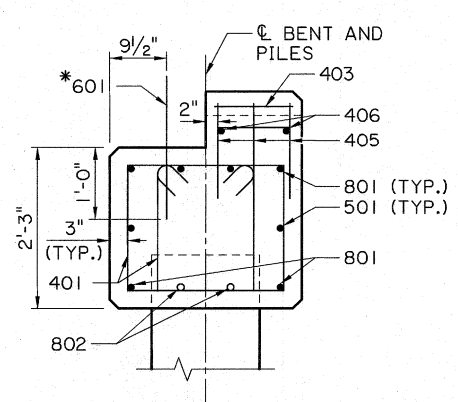


HALF ELEVATION
(18" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

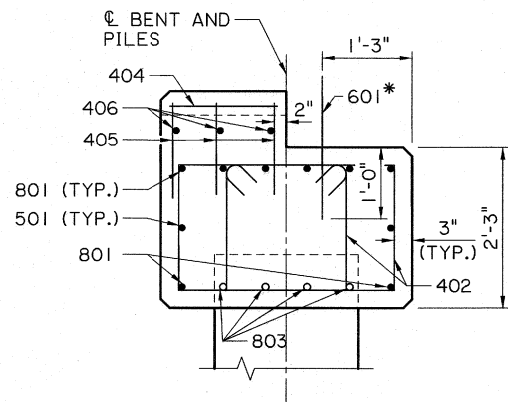
HALF ELEVATION
(24" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"



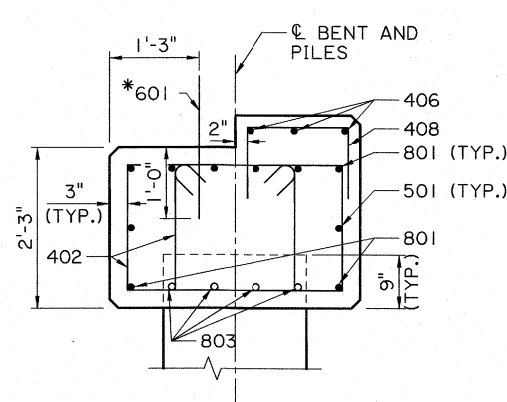
SECTION A-A
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION B-B
(18" \varnothing PILE ALT.)
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION B-B
(24" \varnothing PILE ALT.)
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION C-C
SCALE: $\frac{3}{4}$ " = 1'-0"

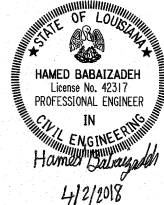
ESTIMATED QUANTITIES (ONE BENT) - 18" \varnothing PILE

BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	6	34'-0"	LONGIT. IN CAP	
802	6	9'-6"	LONGIT. IN CAP	
TOTAL NO. 8 BARS = 261'-0" = 697 LB				
601	21	2'-0"	DOWELS	
TOTAL NO. 6 BARS = 42'-0" = 64 LB				
501	2	34'-0"	LONGIT. IN CAP & RISER	
TOTAL NO. 5 BARS = 68'-0" = 71 LB				
401	70	7'-11"	STIRRUPS IN CAP	
403	2	1'-0"	LONGIT. IN KEY	
405	3	3'-4"	10'-0"	STIRRUPS IN KEY
406	2	34'-0"	68'-0"	LONGIT. IN RISER
407	35	3'-8"	128'-4"	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 = 947'-0" = 633 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,465 LB				
CLASS A1 CONCRETE (BENT CAP) = 8.61 CU YD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 35 TONS				
SERVICE LIVE LOAD = 50 TONS				
FACTORED TOTAL LOAD = 117 TONS				

ESTIMATED QUANTITIES (ONE BENT) - 24" \varnothing PILE

BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	8	34'-0"	272'-0"	LONGIT. IN CAP
803	8	12'-6"	100'-0"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 372'-0" = 994 LB				
601	21	2'-0"	42'-0"	DOWELS
TOTAL NO. 6 BARS = 42'-0" = 64 LB				
501	2	34'-0"	68'-0"	LONGIT. IN CAP & RISER
TOTAL NO. 5 BARS = 68'-0" = 71 LB				
402	68	9'-1"	617'-8"	STIRRUPS IN CAP
404	2	1'-5"	2'-10"	LONGIT. IN KEY
405	3	3'-4"	10'-0"	STIRRUPS IN KEY
406	3	34'-0"	102'-0"	LONGIT. IN RISER
408	35	4'-1"	142'-11"	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 = 1,068'-3" = 714 LB				
TOTAL DEFORMED REINFORCING STEEL = 1,843 LB				
CLASS A1 CONCRETE (BENT CAP) = 11.22 CU YD				
MAX. PILE LOAD: SERVICE DEAD LOAD = 52 TONS				
SERVICE LIVE LOAD = 73 TONS				
FACTORED TOTAL LOAD = 174 TONS				

- NOTES:**
- SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.
 - SEE "601 DOWELS" NOTE IN SLAB SPAN GENERAL NOTES.
 - 0% FOR TWO-WAY TANGENTS. FOR ONE-WAY TANGENT ROADWAYS, MATCH SLOPE OF SLAB.



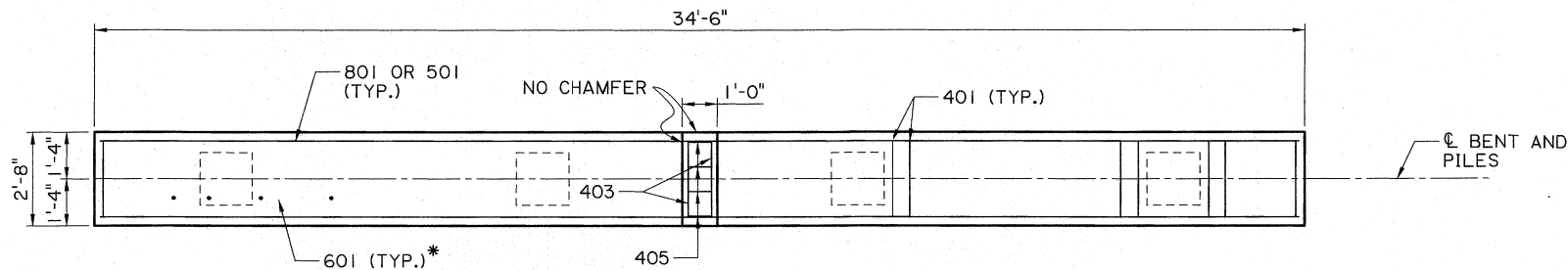
SHEET NUMBER

DESIGNED: BABAZADEH
CHECKED: B.MISTICH
DATE: 4/2/2018

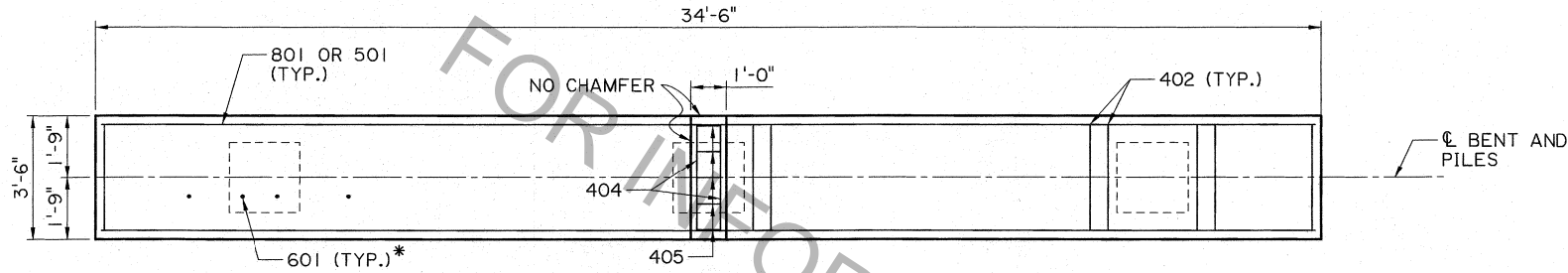
PARISH:
CONTROL SECTION:
STATE:
PROJECT:
SERIES # 1 OF 2

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

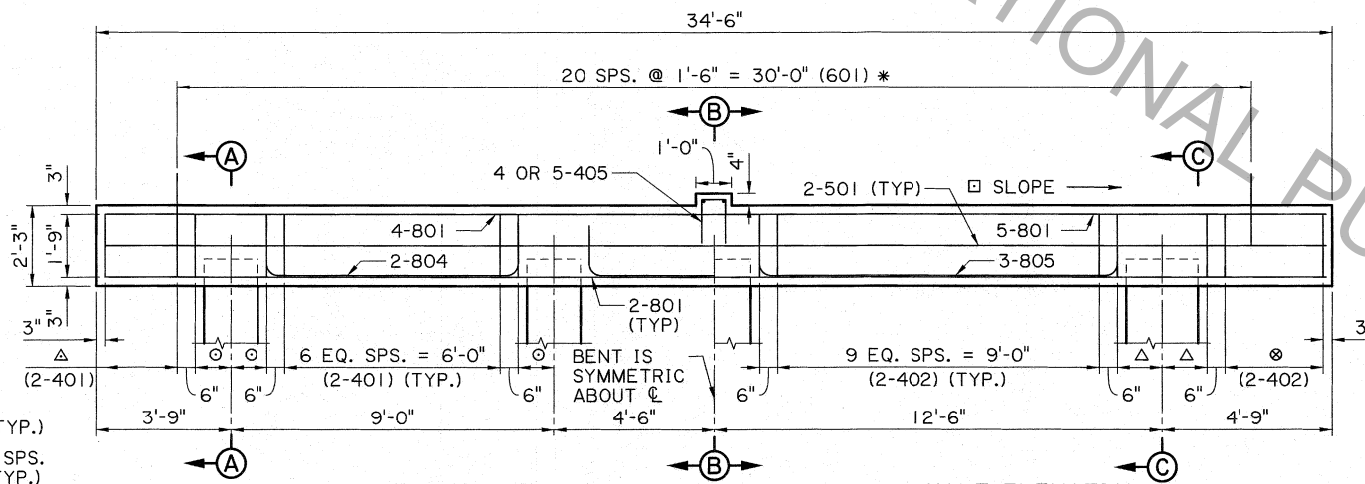
END BENT
BENT DETAILS AND QUANTITIES
32' CLEAR WIDTH, 0° SKEW
DOT BRIDGE DESIGN



PLAN
(18" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"



PLAN
(24" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

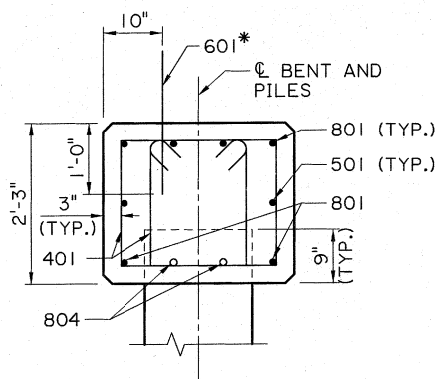


HALF ELEVATION
(18" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

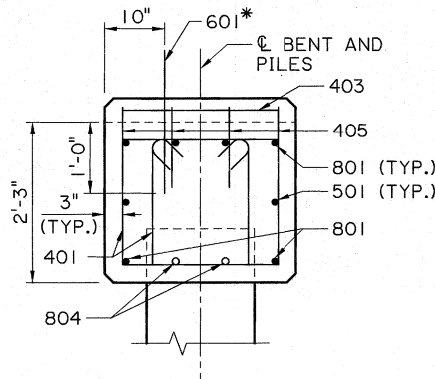
HALF ELEVATION
(24" \varnothing PILE ALTERNATE)
SCALE: $\frac{3}{8}$ " = 1'-0"

○ = 1'-0" (TYP.)
△ 3 EQUAL SPS. = 2'-0" (TYP.)

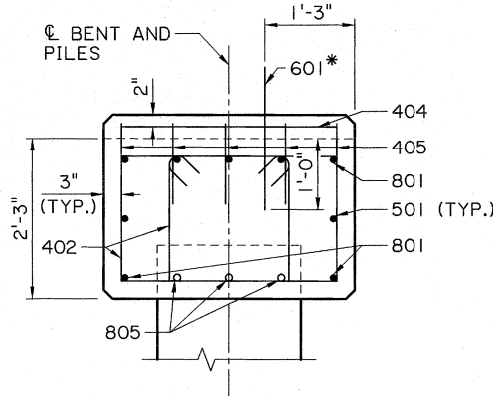
△ = 1'-3" (TYP.)
⊗ 3 EQUAL SPS. = 2'-9" (TYP.)



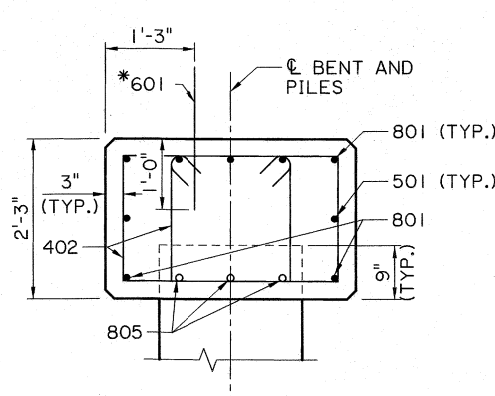
SECTION A-A
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION B-B
(18" \varnothing PILE ALT.)
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION B-B
(24" \varnothing PILE ALT.)
SCALE: $\frac{3}{4}$ " = 1'-0"



SECTION C-C
SCALE: $\frac{3}{4}$ " = 1'-0"

ESTIMATED QUANTITIES (ONE BENT) - 18" \varnothing PILE

BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	6	34'-0"	LONGIT. IN CAP
804	6	9'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 261'-0" = 697 LB			
601	21	2'-0"	DOWELS
TOTAL NO. 6 BARS = 42'-0" = 64 LB			
501	2	34'-0"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 68'-0" = 71 LB			
401	74	7'-11"	STIRRUPS IN CAP
403	2	2'-4"	LONGIT. IN KEY
405	4	3'-4"	STIRRUPS IN KEY
TOTAL NO. 4 BARS = 603'-10" = 404 LB			
TOTAL DEFORMED REINFORCING STEEL = 1,236 LB			
CLASS A1 CONCRETE (BENT CAP) = 7.45 CUYD			
MAX. PILE LOAD: SERVICE DEAD LOAD = 25 TONS			
SERVICE LIVE LOAD = 42 TONS			
FACTORED TOTAL LOAD = 92 TONS			

ESTIMATED QUANTITIES (ONE BENT) - 24" \varnothing PILE

BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	7	34'-0"	LONGIT. IN CAP
805	6	12'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 313'-0" = 836 LB			
601	21	2'-0"	DOWELS
TOTAL NO. 6 BARS = 42'-0" = 64 LB			
501	2	34'-0"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 68'-0" = 71 LB			
402	68	9'-1"	STIRRUPS IN CAP
404	2	3'-2"	LONGIT. IN KEY
405	5	3'-4"	STIRRUPS IN KEY
TOTAL NO. 4 BARS = 640'-8" = 428 LB			
TOTAL DEFORMED REINFORCING STEEL = 1,399 LB			
CLASS A1 CONCRETE (BENT CAP) = 9.77 CUYD			
MAX. PILE LOAD: SERVICE DEAD LOAD = 39 TONS			
SERVICE LIVE LOAD = 63 TONS			
FACTORED TOTAL LOAD = 142 TONS			

- NOTES:**
- SEE SLAB SPAN COMMON DETAILS FOR SECTIONS AND DETAILS NOT SHOWN.
 - SEE "601 DOWELS" NOTE IN SLAB SPAN GENERAL NOTES.
 - 0% FOR TWO-WAY TANGENTS. FOR ONE-WAY TANGENT ROADWAYS, MATCH SLOPE OF SLAB.
 - ADD 64 LBS. OF REINFORCING STEEL (21-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.



SHEET NUMBER

DESIGNED: BABAI ZADEH
CHECKED: B. MISTICH
DATE: 4/2/2018

PARISH:
CONTROL SECTION:
STATE:
PROJECT:
SERIES # 2 OF 2

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

INTERMEDIATE BENT
BENT DETAILS AND QUANTITIES
32' CLEAR WIDTH, 0° SKEW
BD.2.1.1.3.04 - SLAB SPAN DETAILS

DOTD
DOT BRIDGE DESIGN