DESIGNED P. FOSSIER PARISH CHECKED C. GAUDRY CONTROL
DETAILED J. BENTON CONTROL
CHECKED P. FOSSIER SECTION
REVIEWER K. BRAUNER STREET
SERIES ##

GUARDRAIL HEIGHT, ANCHOR BOLT NOTE BASE PLATE

BRIDGE AND STRUCTURAL DESIGN

NOTES

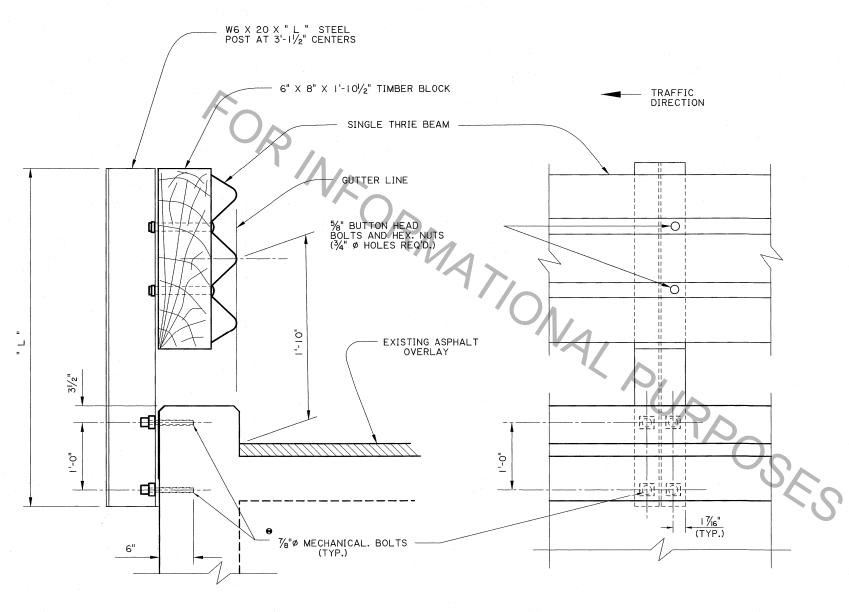
FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200 & GR-202.

ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON BOX CULVERTS SHALL BE PAID FOR UNDER ITEM 704-01-01000 GUARD RAIL (SINGLE THRIE BEAM) (3'-1/2" POST SPACING).

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

 USE % # MECHANICAL SYSTEM AS LISTED ON DOTD APPROVED MATERIALS LIST, PRODUCT CATEGORY "CONCRETE ANCHOR SYSTEMS." PLACE BOLT IN HOLES IMMEDIATELY AND WAIT FOR MANUFACTURERS CURE TIME.

ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL $\frac{5}{8}$ BOLTS SHALL BE ASTM A307.



SECTION THRU RAIL

VIEW FROM ROADWAY



В

61/2"

1'-43/4" (TYP.)

SECTION A-A

-W6 X 20 X "L" STEEL POST AT 3'-11/2" CTRS.

В

6" X 8" X 1'-101/2" TIMBER BLOCK

SINGLE THRIE BEAM

GUTTER LINE

BUTTON HEAD

EXISTING ASPHALT

OVERLAY (IF APPLICABLE ON EXISTING DECK)

——^{*}€ 7⁄8" Ø H.S. THREADED —— BOLTS ASTM A449 (INJECTION)

■ DIRECTION OF TRAFFIC

BASE PLATE FOR POST ASSEMBLY 12" x 10" x 1" STEEL

NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200 AND GR-202.

ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON BOX CULVERTS SHALL BE PAID FOR UNDER ITEM 704-01-01000 GUARD RAIL (SINGLE THRIE BEAM) (3'-11/2" POST SPA.)

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

*DRILL I" \emptyset HOLES, 6" DEEP FOR $7\!\!/_{\!8}$ $\!\!/_{\!9}$ GALVANIZED BOLT. USE $7\!\!/_{\!8}$ GALVANIZED NUT WITH GALVANIZED CUT WASHER.

ALL HOLES DRILLED INTO AN EXISTING CONCRETE STRUCTURE SHALL BE CLEANED WITH COMPRESSED AIR AND MADE FREE OF ANY OIL OR RESIDUE. HOLES SHALL BE FILLED WITH 7_8 " INJECTION SYSTEM AS LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "CONCRETE ANCHOR SYSTEMS." PLACE BOLT IN HOLE IMMEDIATELY AND WAIT FOR MANUEL ACCIDEDS CURE TIME MANUFACTURERS CURE TIME.

ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL $^{5}\!\!\!/\!\!\!/$ BOLTS SHALL BE ASTM A307.

ELEVATION

PURPOSES ONLY



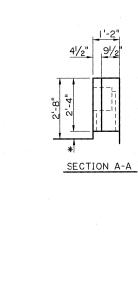


		CHECKED C. GAUDRI	J
		DETAILED J. BENTON	CONT
GUARDRAIL HEIGHT, ANCHOR BOLT NOTE AND		CHECKED P. FOSSIER	SECTI
	<u>ч.</u>	REVIEWED K. BRAUNER	STATE
REVISION OR CHANGE ORDER DESCRIPTION	BY	SERIES #	PROJE

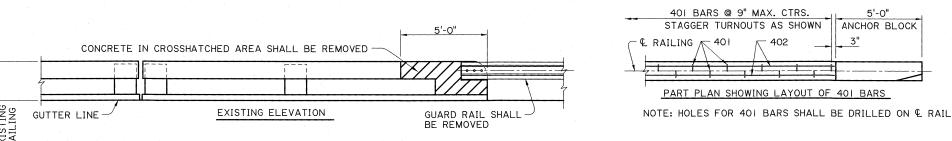


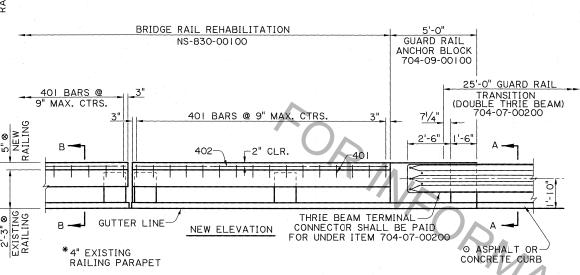






RAILING PARAPET





-4 NO. 404 & 405 BARS

-NO. 403 BARS @ 6" MAX. SPACING 5'-0"

SEE NOTE "A"

r2" CLR.

ANCHOR BLOCK ELEVATION

GENERAL NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE PROJECT ENGINEER.

O FOR CURB & TRANSITION INFORMATION, SEE SHEET 3 OF 10, GR-200. ⊗ 2'-3" & 5" DIMENSIONS MAY VARY.

BARRIER RAIL REHABILITATION

ALL WORK AND MATERIALS REQUIRED TO RAISE THE EXISTING BARRIER RAIL TO THE REQUIRED HEIGHT OF 2'-8" SHALL BE PAID FOR UNDER: BARRIER RAIL REHABILITATION, PER LIN. FT.

GUARD RAIL ANCHOR BLOCKS

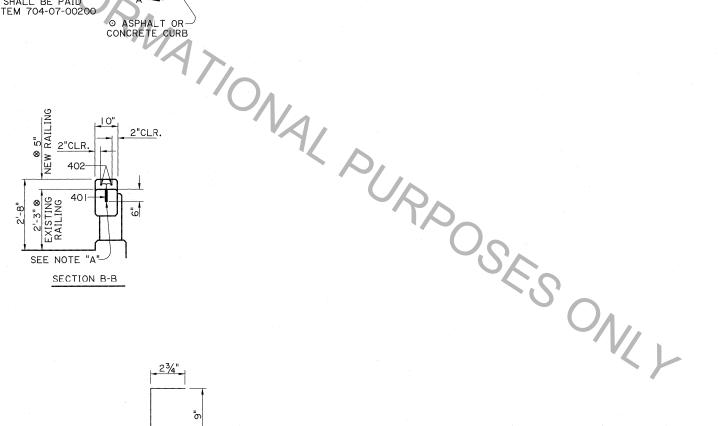
ALL WORK AND MATERIALS REQUIRED TO REMOVE EXISTING RAILING AND CONSTRUCT THE ANCHOR BLOCK SHALL BE PAID FOR UNDER: GUARD RAIL ANCHOR BLOCK, PER EACH, ITEM 704-09-00100 CONCRETE IN CROSS HATCHED AREA SHALL BE REMOVED. THE EXISTING REINFORCING STEEL SHALL REMAIN IN PLACE AND SHALL BE CLEANED AND STRAIGHTENED TO THE SATISFACTION OF THE PROJECT ENGINEER BEFORE POURING NEW CONCRETE.

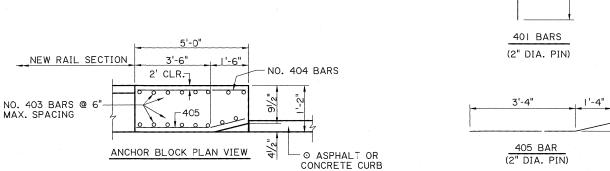
CONCRETE

NEW CONCRETE SHALL BE CLASS "AA".

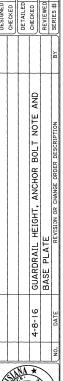
NOTE "A"

NO. 401 & 403 BARS SET IN 3/4" Ø DRILLED HOLES. CLEAN HOLES WITH COMPRESSED AIR AND MAKE THEM FREE OF ANY OIL OR RESIDUE. FILL HOLES WITH TYPE V, GRADE 2 OR 3 EPOXY LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "EPOXY RESIN SYSTEMS FOR CONCRETE." PLACE—BARS IN HOLES AND WAIT THE MANUFACTURERS CURE TIME BEFORE POURING NEW CONCRETE.









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RIDGE RAI FOR LOW & RAIL NCHOR BLOCK & BR REHABILITATION F CONCRETE POST 8



NEW RAIL SECTION

NO. 403 BARS @ 6"

MAX. SPACING

3'-6"

405

ANCHOR BLOCK PLAN VIEW

2' CLR.

_ 1'-6"_

NO. 404 BARS

O ASPHALT OR

CONCRETE CURB

40 BARS (2" DIA. PIN) 405 BAR

(2" DIA. PIN)

GENERAL NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR 200. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE PROJECT ENGINEER.

O FOR CURB & TRANSITION INFORMATION, SEE SHEET 3 OF 10, GR-200.

GUARD RAIL ANCHOR BLOCKS

ALL WORK AND MATERIALS REQUIRED TO REMOVE EXISTING RAILING AND CONSTRUCT THE ANCHOR BLOCK SHALL BE PAID FOR UNDER: GUARD RAIL ANCHOR BLOCK, PER EACH, ITEM 704-09-00100 CONCRETE IN CROSS HATCHED AREA SHALL BE REMOVED. THE EXISTING

REINFORCING STEEL SHALL REMAIN IN PLACE AND SHALL BE CLEANED AND STRAIGHTENED TO THE SATISFACTION OF THE PROJECT ENGINEER BEFORE POURING NEW CONCRETE. THE REINFORCING STEEL IN THE 1'-6" X 41/2" SLOT MAY BE CUT OR BENT TO ACCOMMODATE THIS SLOT.

NO. 401 & 403 BARS SET IN $\frac{3}{4}$ " Ø DRILLED HOLES. CLEAN HOLES WITH COMPRESSED AIR AND MAKE THEM FREE OF ANY OIL OR RESIDUE. FILL HOLES WITH A TYPE Y, GRADE 2 OR 3 EPOXY LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "EPOXY RESIN SYSTEMS FOR CONCRETE." PLACE BARS IN HOLES AND WAIT THE MANUFACTURERS CURE TIME BEFORE POURING NEW

C. GAUDRY
J. BENTON
P. FOSSIER
S. H. BRAUNER CHECKED
CHECKED
DETAILED
CHECKED
CHECKED
REVIEWED GUARDRAIL HEIGHT, ANCHOR BOLT NOTE BASE PLATE

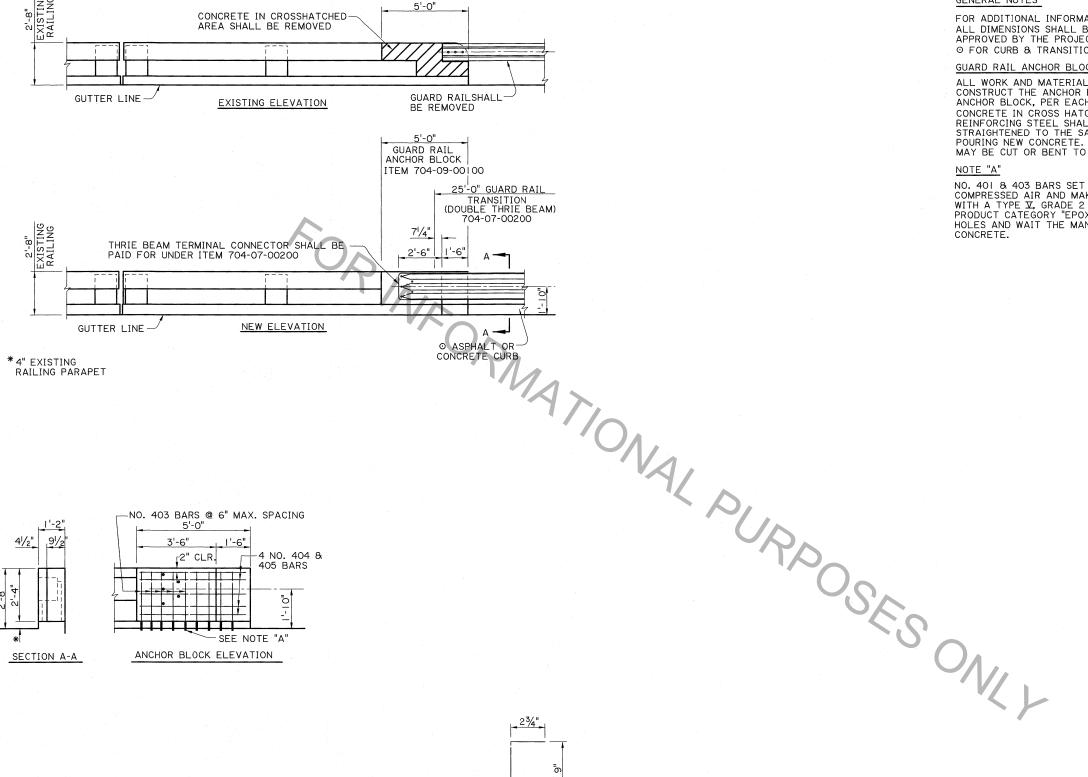
CONTROL SECTION STATE PROJECT

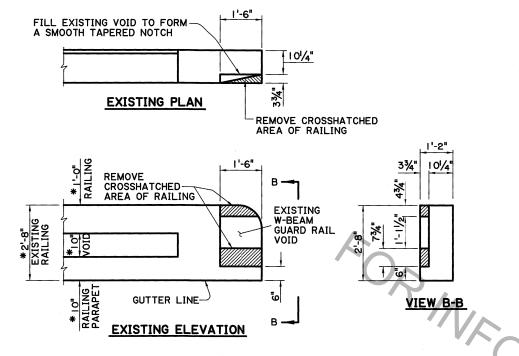


NNCHOR BLOCK
I FOR CONCRET
RAIL

GUARD RAIL AN REHABILITATION F POST 8, F ALTERNAT







GENERAL NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAILS, SEE STANDARD PLAN GR 200. *THESE DIMENSIONS MAY VARY. THE NON-SHRINK GROUT QUANTITY AND 403 BAR LENGTH SHALL BE ADJUSTED ACCORDINGLY.

ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE PROJECT ENGINEER.

O FOR CURB & TRANSITION, SEE SHEET 3 OF 10, GR-200.

GUARD RAIL ANCHOR BLOCKS

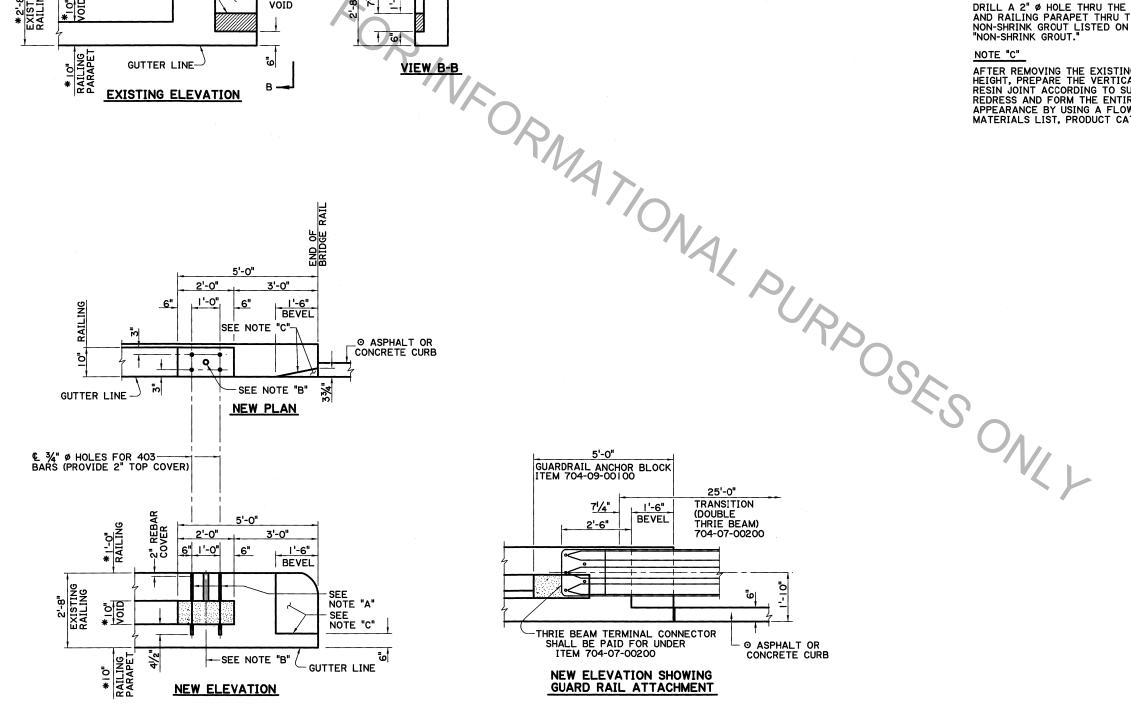
ALL WORK AND MATERIALS REQUIRED TO MODIFY EXISTING RAILING SHALL BE PAID FOR UNDER: GUARD RAIL ANCHOR BLOCK, PER EACH, ITEM 704-09-00100.

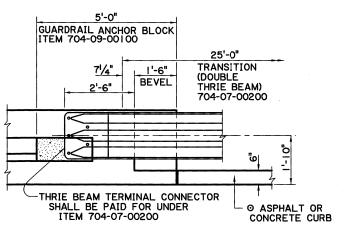
DRILL 3/4" Ø HOLES THRU THE RAILING AND INTO THE RAILING PARAPET AS SHOWN. CLEAN HOLES WITH COMPRESSED AIR TO REMOVE ALL OIL AND RESIDUE. FILL HOLES WITH TYPE I, GRADE "C" EPOXY LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "EPOXY RESIN SYSTEMS." PLACE 403 BARS (2'-2" LONG) IN HOLES AND WAIT THE MANUFACTURERS CURE TIME BEFORE POURING NEW CONCRETE.

NOTE "B"

DRILL A 2" Ø HOLE THRU THE DEPTH OF RAILING. FILL VOID BETWEEN RAILING AND RAILING PARAPET THRU THE 2" Ø HOLE WITH AN APPROVED FLOWABLE NON-SHRINK GROUT LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "NON-SHRINK GROUT."

AFTER REMOVING THE EXISTING CONCRETE TO CONSTRUCT THE 1'-6" BEVEL FULL HEIGHT, PREPARE THE VERTICAL SURFACE OF THE EXISTING VOID FOR AN EPOXY RESIN JOINT ACCORDING TO SUBSECTION 805.05.8.2 AND PLACE CONCRETE IN VOID. REDRESS AND FORM THE ENTIRE SURFACE OF THE BEVEL TO GIVE A SMOOTH APPEARANCE BY USING A FLOWABLE NON-SHRINK GROUT LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "NON-SHRINK GROUT."





NEW ELEVATION SHOWING GUARD RAIL ATTACHMENT

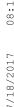


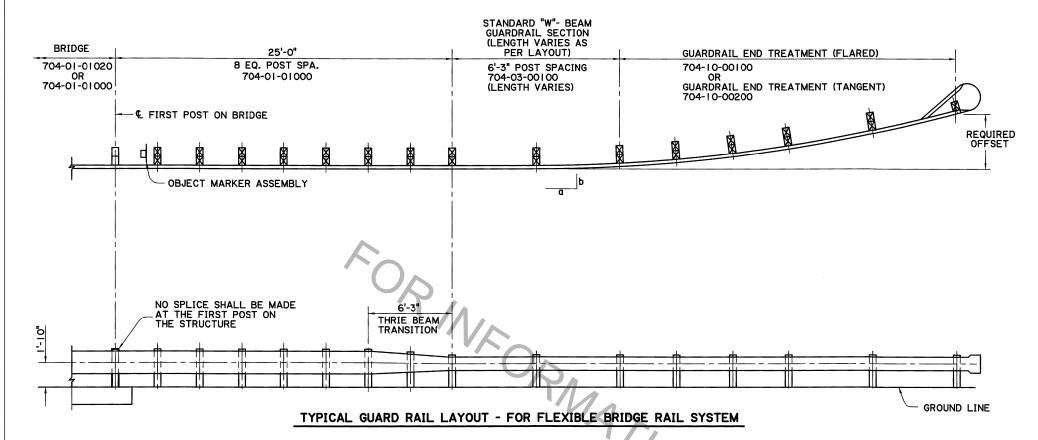




GAUDRY
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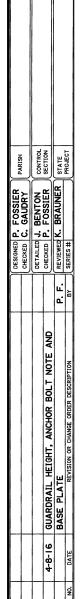
NOTES

LAYOUTS SHOWN ARE FOR BRIDGE STRUCTURES WHICH HAVE FLEXIBLE BRIDGE RAILING (W-BEAM OR THRIE BEAM).

FOR ADDITIONAL INFORMATION ON GUARD RAILS, SEE STANDARD PLAN GR-200.

WAL PURPOSES ONLY



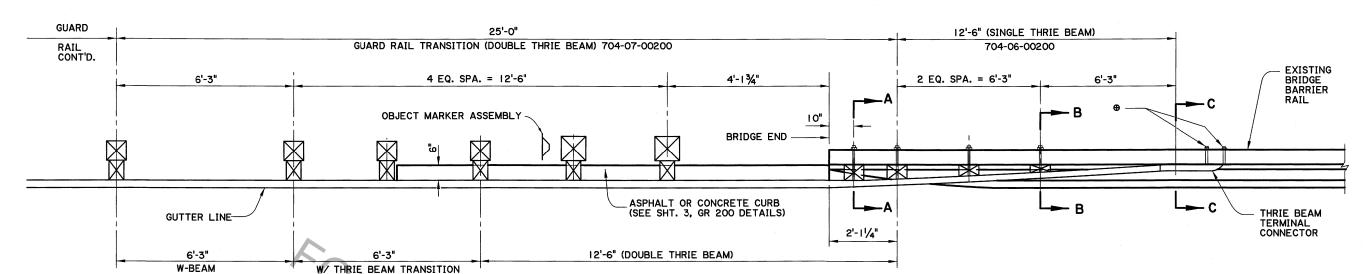




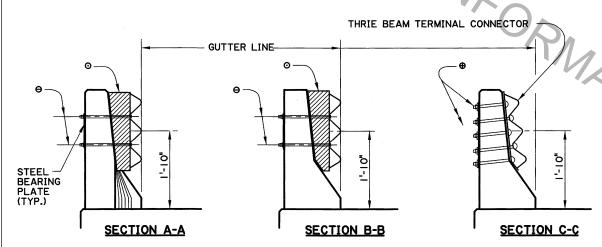
APPROACH GUARD RAIL STRUCTURES WITH FLEXIBLE RAILS

FOR STRUCTU





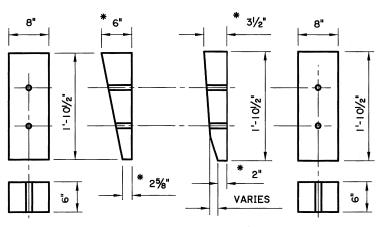
PLAN VIEW



- ⊕ 5-%" Ø H.S. ASTM A449 HEX THROUGH BOLTS WITH %" BEARING PLATE (SEE STD. PLAN GR 200, SHEET 9 OF 10)
- ⊖ 2-5/8" Ø BUTTON HEAD BOLTS WITH 5/8" BEARING PLATE, NUTS, 8 WASHERS
- © 6" x 8" x 1'-101/2" TREATED TIMBER BLOCK (CUT & SHAPE IN THE FIELD TO FIT).

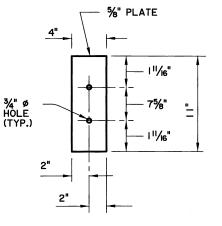
NOTES:

- I. FOR ADDITIONAL INFORMATION ON GUARD RAIL TRANSITION, SEE STD. PLAN GR-200, SHEET 3 OF 10.
- 2. ALL HARDWARE AND TIMBER USED FOR CONNECTING THE SINGLE THRIE BEAM TO THE EXISTING BRIDGE RAIL SHALL BE PAID FOR UNDER ITEM 704-06-00200, GUARD RAIL BRIDGE ATTACHMENTS (SINGLE THRIE BEAM), PER LIN. FT.
- 3. ANY DAMAGE DONE TO THE EXISTING STRUCTURE DURING INSTALLATION OF THE GUARD RAIL SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE PROJECT ENGINEER.
- 4. GALV. STEEL OGEE WASHER MAY BE USED IN LIEU OF THE STEEL BEARING PLATE.
- 5. ALL H.S. BOLTS SHALL BE ASTM A449. ALL %" \emptyset BOLTS SHALL BE ASTM A307.
- 6. A 25'-O" SECTION OF THRIE BEAM RAIL (WITH NO SPLICE) SHALL BE INSTALLED SYMMETRICALLY WITH RESPECT TO THE SECOND TIMBER BLOCK USED AT THE END OF THE STRUCTURE.
- 7. THE WOOD SHIM BLOCKS SHALL BE CUT & SHAPED IN THE FIELD TO FIT THE LOCATION WITH A SNUG FIT.
- 8. THE BOLT HOLES SHALL BE FIELD DRILLED THRU THE GUARD RAIL, SHIM BLOCKS AND THE BARRIER RAIL AT THE SAME TIME.
- 9. THE GUARD RAIL SHALL NOT PROTRUDE BEYOND THE GUTTER LINE.



SHIM BLOCK FOR SECTION A-A

SHIM BLOCK FOR SECTION B-B



STEEL BEARING PLATE





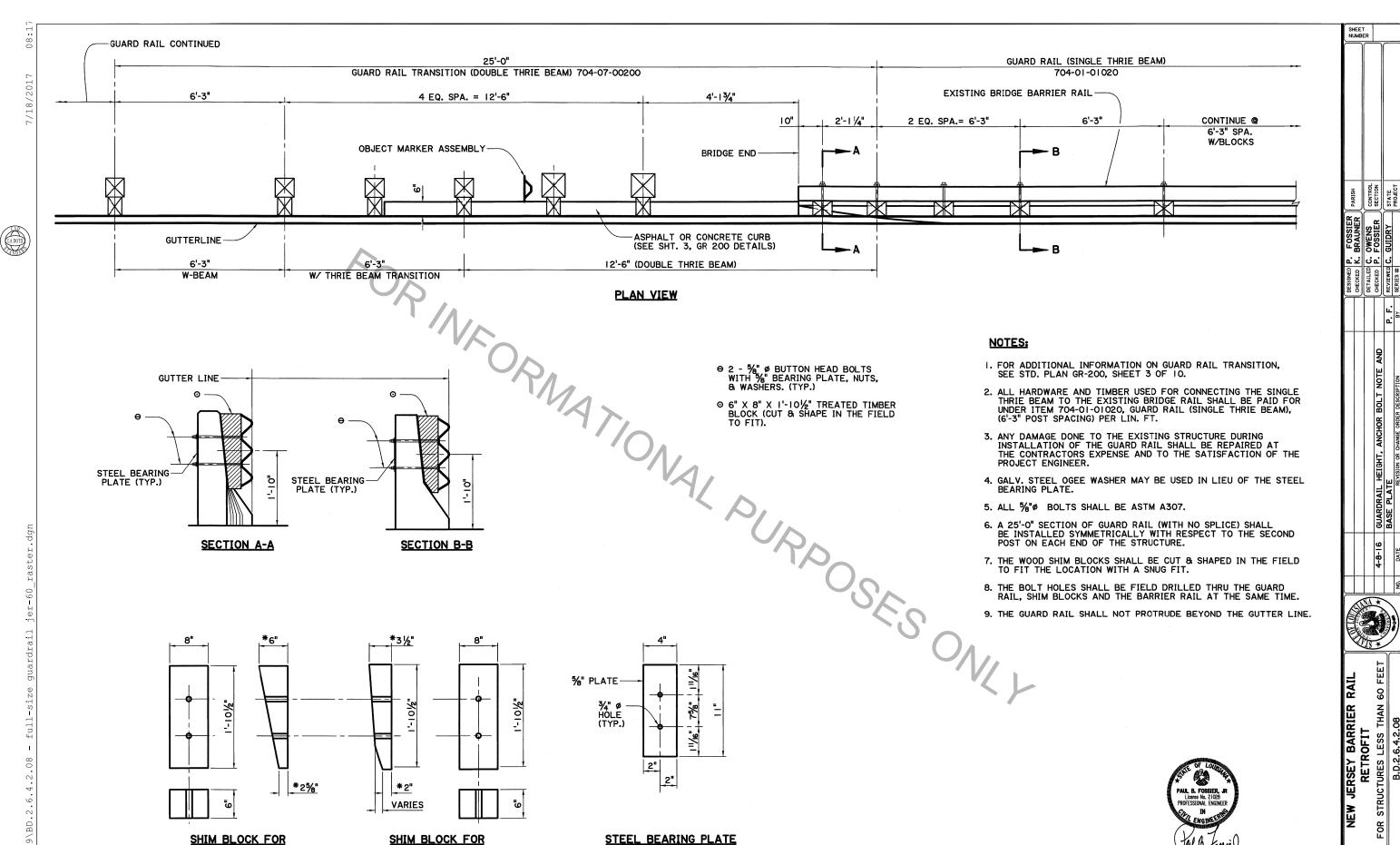
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GUARDRAIL HEIGHT, ANCHOR BOLT NOTE AND BASE PLATE

4-8-16



^{*}DIMENSIONS ARE ASSUMED. ADJUST IN THE FIELD AS REQUIRED. HOLES SHALL BE DRILLED IN THE FIELD. SEE NOTE NO. 8.



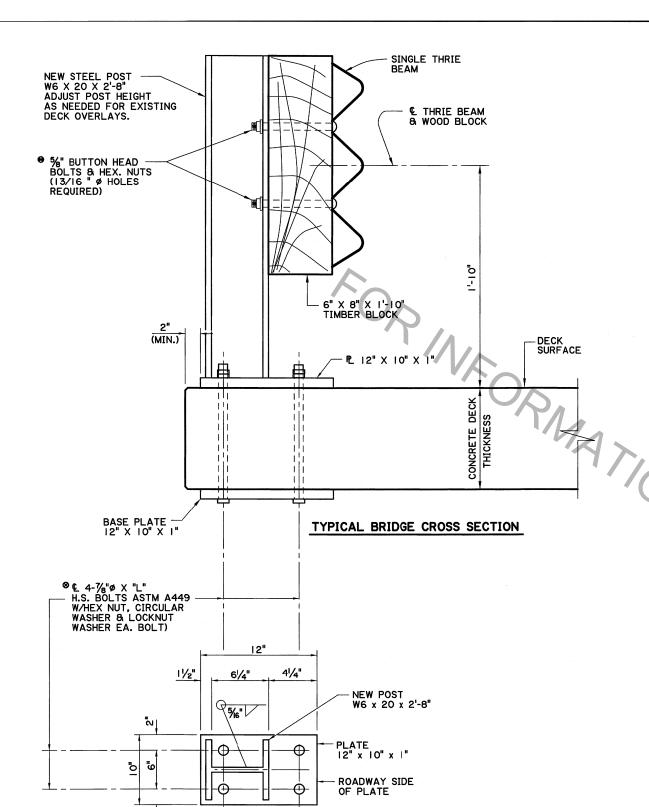
* DIMENSIONS ARE ASSUMED. ADJUST IN THE FIELD AS REQUIRED. HOLES SHALL BE DRILLED IN THE FIELD. SEE NOTE NO. 8.

SECTION B-B

SECTION A-A



60 FEET



BASE PLATE FOR POST ASSEMBLY 12" x 10" x 1" STEEL

4"

⊗ BOLTS LENGTH TO BE FIELD MEASURED AND ADJUSTED BASED ON ACTUAL DECK THICKNESS, SUBMIT TO DOTD BRIDGE DESIGN ENGINEER FOR REVIEW BEFORE INSTALLATION

NOTES

ALL HARDWARE INVOLVED SHALL BE REPLACED BY NEW HARDWARE.

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200.

ALL STRUCTURAL STEEL, POST AND PLATES, SHALL BE ASTM A-36 AND GALVANIZED. ALL 5/8 BOLTS SHALL BE ASTM A307.

THE BOLTS IN THE GUARD RAIL SHALL BE LOCATED ON THE ONCOMING FLANGE TRAFFIC SIDE.

ALTHOUGH ITEM 704-01-01020 CALLS FOR 6'-3" MAX. POST SPACING, THE NEW POST FOR EXISTING PRECAST BRIDGES SHALL BE INSTALLED AT THE SAME LOCATION AS THE OLD ONES. ALL GUARD RAIL SPLICES SHALL BE MADE AT

ALL WORK AND MATERIALS REQUIRED TO INSTALL THE NEW GUARD RAIL SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL (SINGLE THRIE BEAM) (6'-3" POST SPA.) PER LIN. FT.



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GUARD RAIL REHABILITATION PRECAST BRIDGES)

DECK (FLAT



FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200 & GR-202.

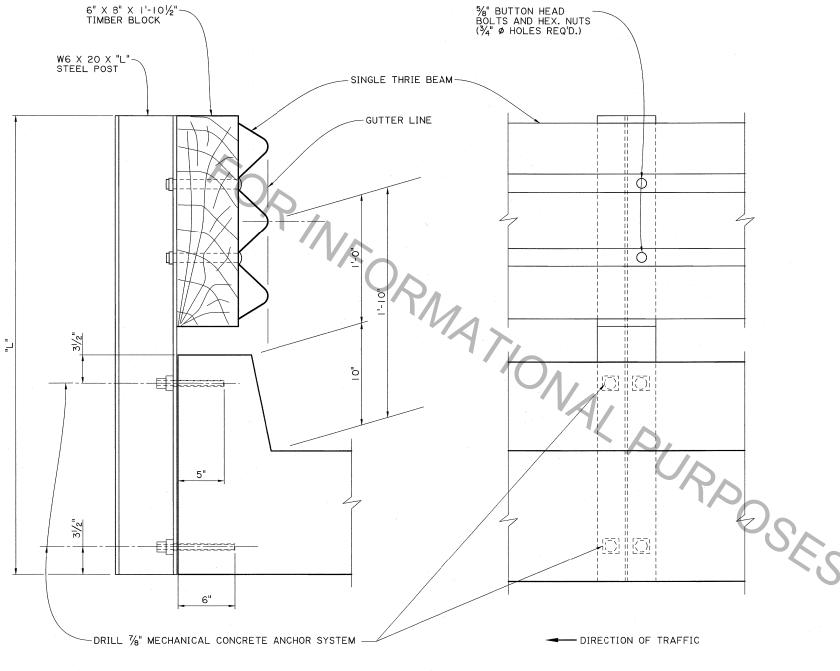
ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON THIS TYPE STRUCTURE SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL (SINGLE THRIE

ALTHOUGH ITEM 704-01-01020 CALLS FOR 6'-3" POST SPACING, THE NEW POST ON THIS TYPE STRUCTURE SHALL BE PLACED IN THE SAME LOCATION AS THE EXISTING ONES.

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

USE $7\!\!/_8$ MECHANICAL SYSTEM AS LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "CONCRETE ANCHOR SYSTEMS."

ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL $^{5}\!\!\!/\!\!\!/$ BOLTS SHALL BE ASTM A307.



SECTION THRU RAIL

VIEW FROM ROADWAY



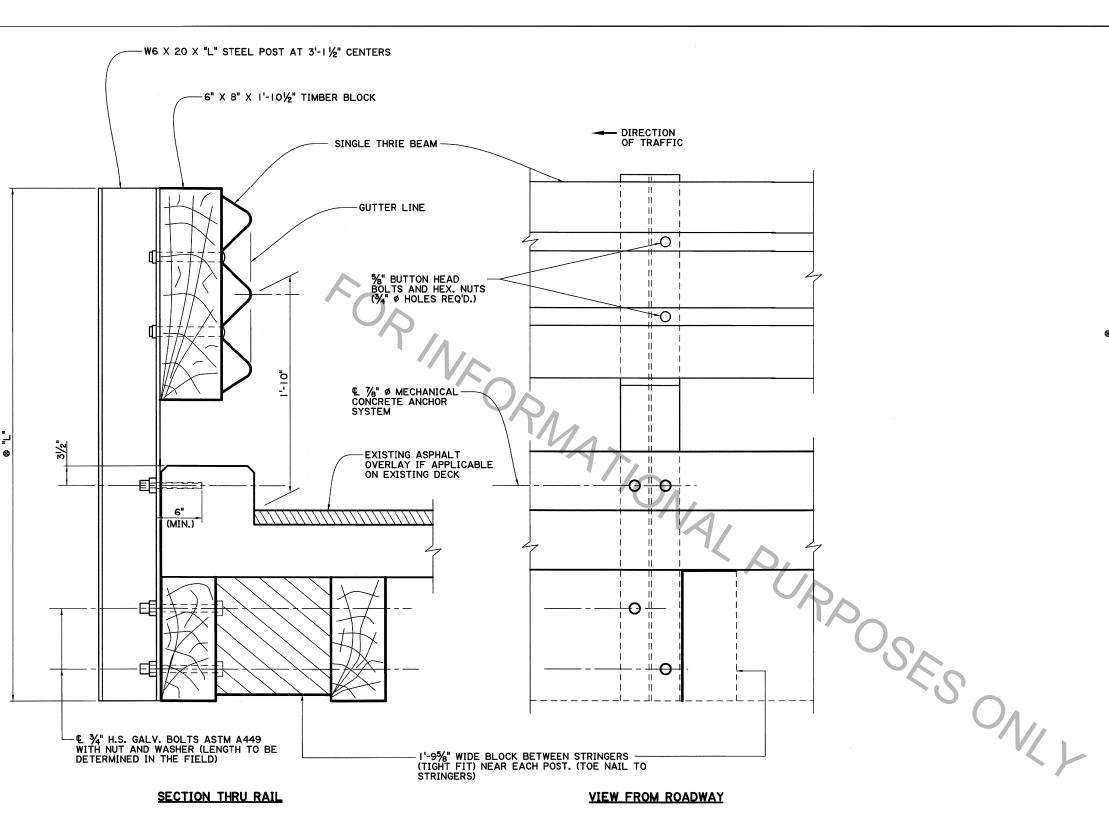




MOUNTED BRIDGES

DESIGNED P. FOSSIER
OHECKED C. GAUDRY
DETAILED J. BENTON
CHECKED P. FOSSIER
STANLED M. BRAUNER S.
FOSSIER B.
F

GUARDRAIL HEIGHT, ANCHOR BOLT NOTE BASE PLATE



NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200.

ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON BRIDGE SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL (SINGLE THRIE BEAM) (6'-3" POST SP.).

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

DRILL I" ϕ HOLES, 5" DEEP AT THE TOP OF CURB FOR $^3\!\!\!\!\!/\!\!\!\!/$ ϕ GALVANIZED BOLT.

USE 3/4" GALV. NUT WITH GALV. CUT WASHER.

USE % MECHANICAL CONCRETE ANCHOR SYSTEM AS LISTED ON APPROVED MATERIALS LIST, PRODUCT CATEGORY "CONCRETE ANCHOR SYSTEMS."

ALL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL %" Ø BOLTS SHALL BE ASTM A307.

⊗ W6x20 POST TO BE FIELD MEASURED TO DETERMINE LENGTH "L" BY CONTRACTOR.



u.c. 국민국



E MOUNTED GUARD RACONCRETE DECK
TIMBER STRINGERS

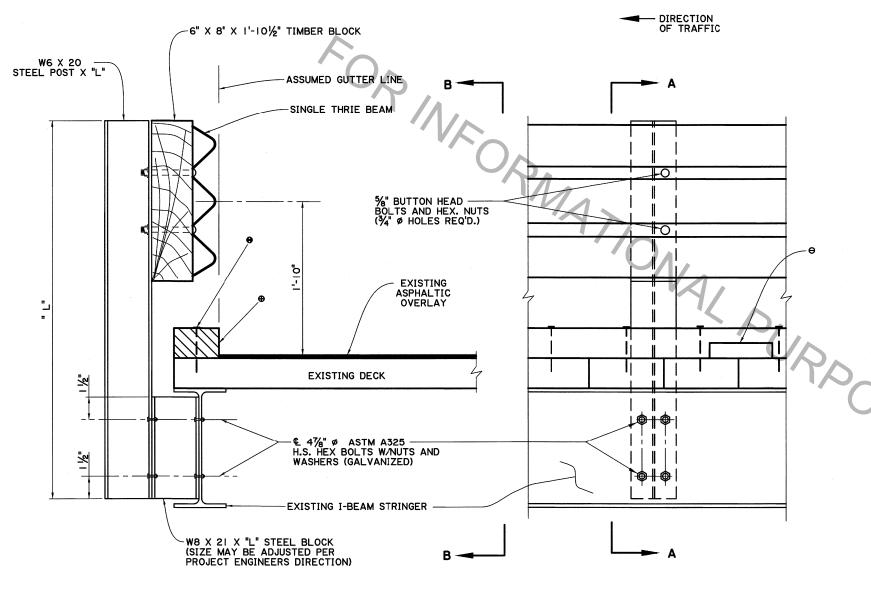


⊖ 2" X I'-O" NOTCH FOR DRAINAGE

SECTION A-A

⊕ 4" X 6" X LGTH. OF BRIDGE FELLOE GUARD (NEW) (NOTCH FOR DRAINAGE)

● 678" SPIKE AT EACH FLOOR PLANK



SECTION B-B

NOTES

ALL WORK AND MATERIAL (INCLUDING THE NEW FELLOE GUARD) REQUIRED TO INSTALL THE NEW BRIDGE RAIL SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARDRAIL (SINGLE THRIE BEAM) (6'-3" POST SPA.)

EXISTING ASPHALT SHALL BE CLEARED FROM AREA WHERE FELLOE GUARD IS TO BE PLACED SO THAT THE FELLOE GUARD WILL BE ON THE TIMBER DECK.

POST SHALL BE LOCATED AT EACH BENT AND AT INTERMEDIATE POINTS NOT TO EXCEED 6'-3" (EQUALLY SPACED)

IF DIRECTED BY THE PROJECT ENGINEER, A DIAPHRAGM SHALL BE PLACED AT EACH INTERMEDIATE POST BETWEEN THE FIRST AND SECOND STRINGER. (TO BE INCLUDED IN 704-01-01020.

"L" (POST HEIGHT & STEEL BLOCK) SHALL BE DETERMINED IN THE FIELD.

FOR ADDITIONAL INFORMATION ON GUARDRAIL, SEE STD. PLAN GR-200.

ALL STRUCTURAL STEEL SHALL BE ASTM A36 AND GALVANIZED. ALL %" \emptyset BOLTS SHALL BE ASTM A307.

GAUDRY
GAUDRY
BENTON
CONTROL
FOSSIER
SECTION
STATE
PROJECT

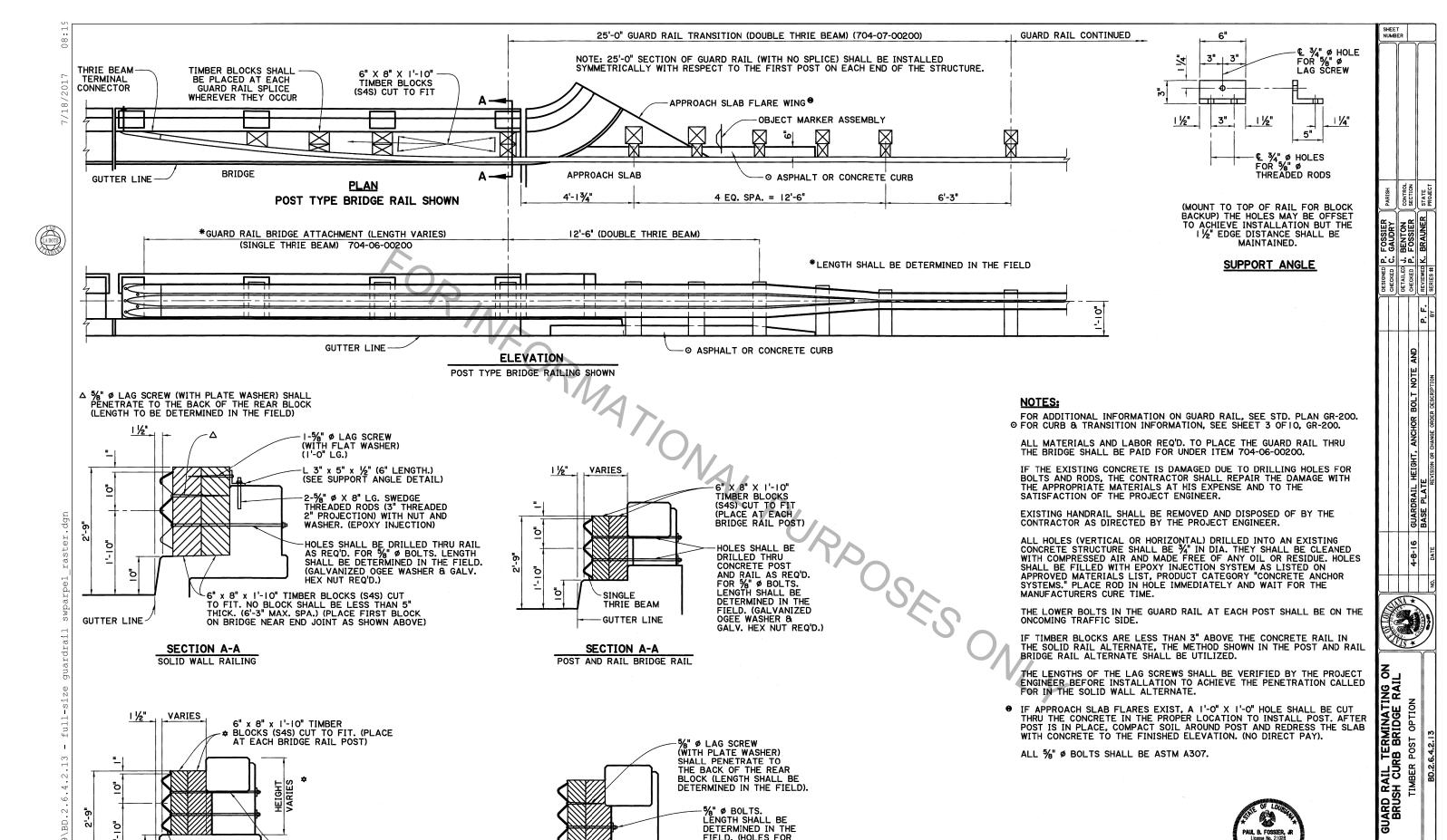
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BRIDGE

MOUNTED







THESE BOLTS MAY

BE PRE -DRILLED)

VIEW AT GUARD RAIL SPLICES

SINGLE

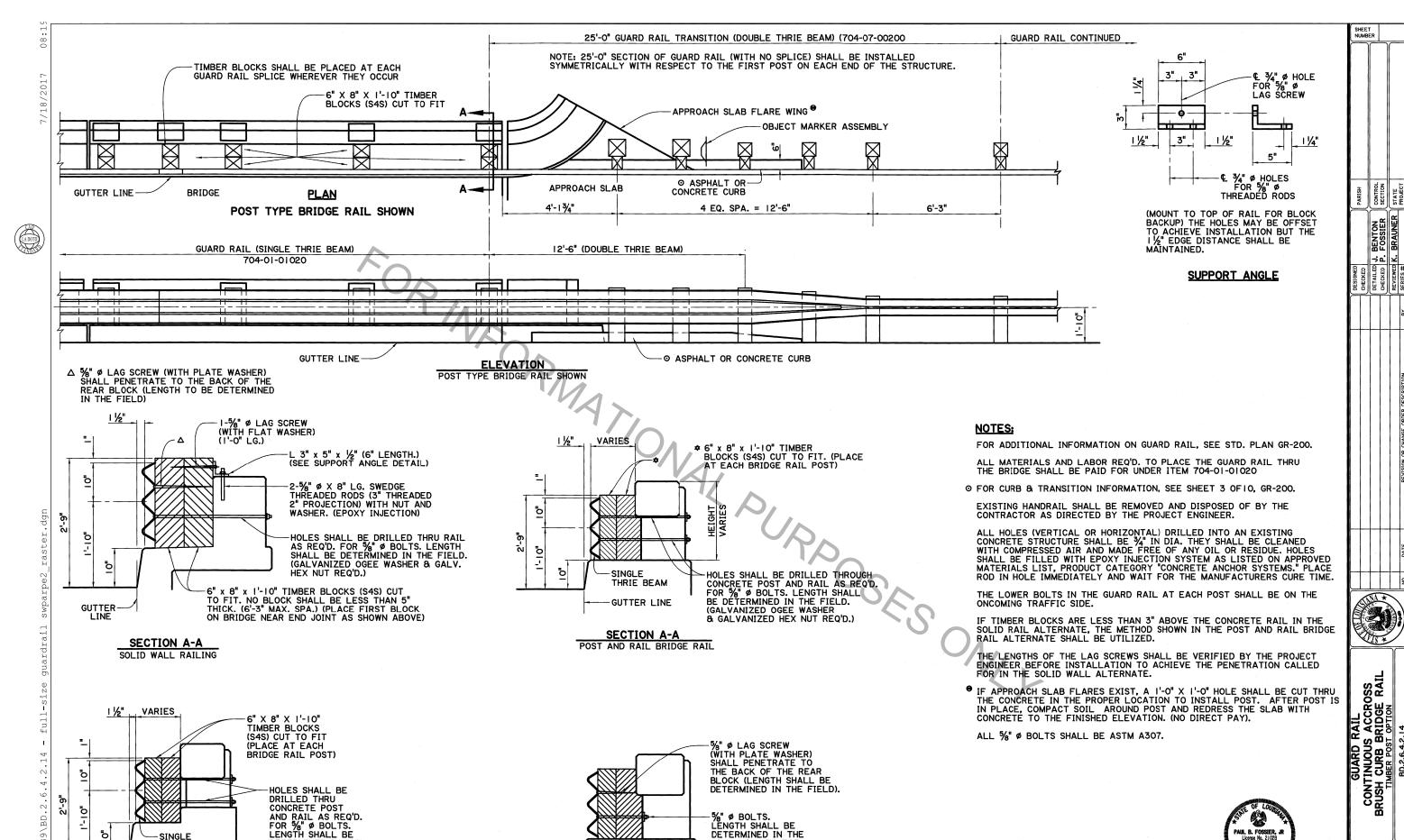
THRIE BEAM -GUTTER LINE

SECTION A-A

POST AND RAIL BRIDGE RAIL

-HOLES SHALL BE DRILLED THROUGH CONCRETE POST AND RAIL AS REQ'D. FOR %" Ø BOLTS. LENGTH SHALL BE DETERMINED IN THE FIELD.

(GALVANIZED OGEE WASHER & GALVANIZED HEX NUT REQ'D.)



DETERMINED IN THE

FIELD. (HOLES FOR

THESE BOLTS MAY

BE PRE -DRILLED)

VIEW AT GUARD RAIL SPLICES

SINGLE THRIE BEAM

SECTION A-A POST AND RAIL BRIDGE RAIL

GUTTER LINE

DETERMINED IN THE

FIELD. (GALVANIZED

GALV. HEX NUT REQ'D.)

OGEE WASHER &

NEW 6" X 8" X I'-101/2" TIMBER BLOCK -

NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200.

ALL TIMBER SHALL BE TREATED SOUTHERN YELLOW PINE OR DOUGLAS FIR. (CUT TO FIT). ALL HARDWARE & NAILS INVOLVED SHALL BE REPLACED WITH NEW MATERIALS AND SHALL BE GALVANIZED.

POST SPACING VARIES FROM STRUCTURE TO STRUCTURE. ORIGINAL POST SPACING SHALL BE VERIFIED BY THE PROJECT ENGINEER AND NEW POSTS SHALL BE PLACED AT THESE LOCATIONS. ANY POST AT OTHER THAN THE ORIGINAL POST SPACING SHALL BE REMOVED.

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

*HOLES IN CONCRETE CURB SHALL BE COUNTER-SUNK SO THE BOLT HEAD WILL NOT PROTRUDE OUTSIDE THE FACE OF CURB. GROUT HOLES WITH APPROPRIATE MATERIAL AFTER BOLT HAS BEEN TIGHTENED.

ALL WORK AND MATERIALS REQ'D. TO COMPLETE GUARD RAIL ON BRIDGE SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL, (SINGLE THRIE BEAM) (6'-3" POST SPA.) PER LIN. FT.

WHEN EXTERIOR STRINGER IS REQ'D. TO BE REPLACED IT SHALL BE DONE AS DIRECTED BY THE PROJECT ENGINEER AND PAID FOR UNDER FORCE ACCOUNT.

□ ALL 5/8" Ø BOLTS SHALL BE ASTM A307.

ALL BOLT LENGTHS SHALL BE VERIFIED BY FIELD MEASUREMENTS.





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GUARDRAIL HEIGHT, ANCHOR BOLT NOTE BASE PLATE



TYPICAL SECTION

(NOT TO SCALE)

NOTES

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200.

ALL TIMBER SHALL BE TREATED SOUTHERN YELLOW PINE OR DOUGLAS FIR. (CUT TO FIT) ALL HARDWARE & NAILS INVOLVED SHALL BE REPLACED WITH NEW MATERIALS AND SHALL BE GALVANIZED.

POST SPACING VARIES FROM STRUCTURE TO STRUCTURE. ORIGINAL POST SPACING SHALL BE VERIFIED BY THE PROJECT ENGINEER AND NEW POST SHALL BE PLACED AT THESE LOCATIONS, ANY POST OTHER THAN THE ORIGINAL POST SPACING SHALL BE REMOVED.

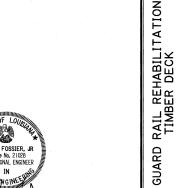
GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

ALL WORK AND MATERIALS REQ'D. TO COMPLETE GUARD RAIL ON BRIDGE SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL, (SINGLE THRIE BEAM)
(6'-3" POST SPA.) PER LIN. FT.

WHEN EXTERIOR STRINGER IS REQ'D. TO BE REPLACED IT SHALL BE DONE AS DIRECTED BY THE PROJECT ENGINEER AND PAID FOR UNDER FORCE ACCOUNT.

□ ALL 5/8" Ø BOLTS SHALL BE ASTM A307.

ALL BOLT LENGTHS SHALL BE VERIFIED BY FIELD MEASUREMENTS.

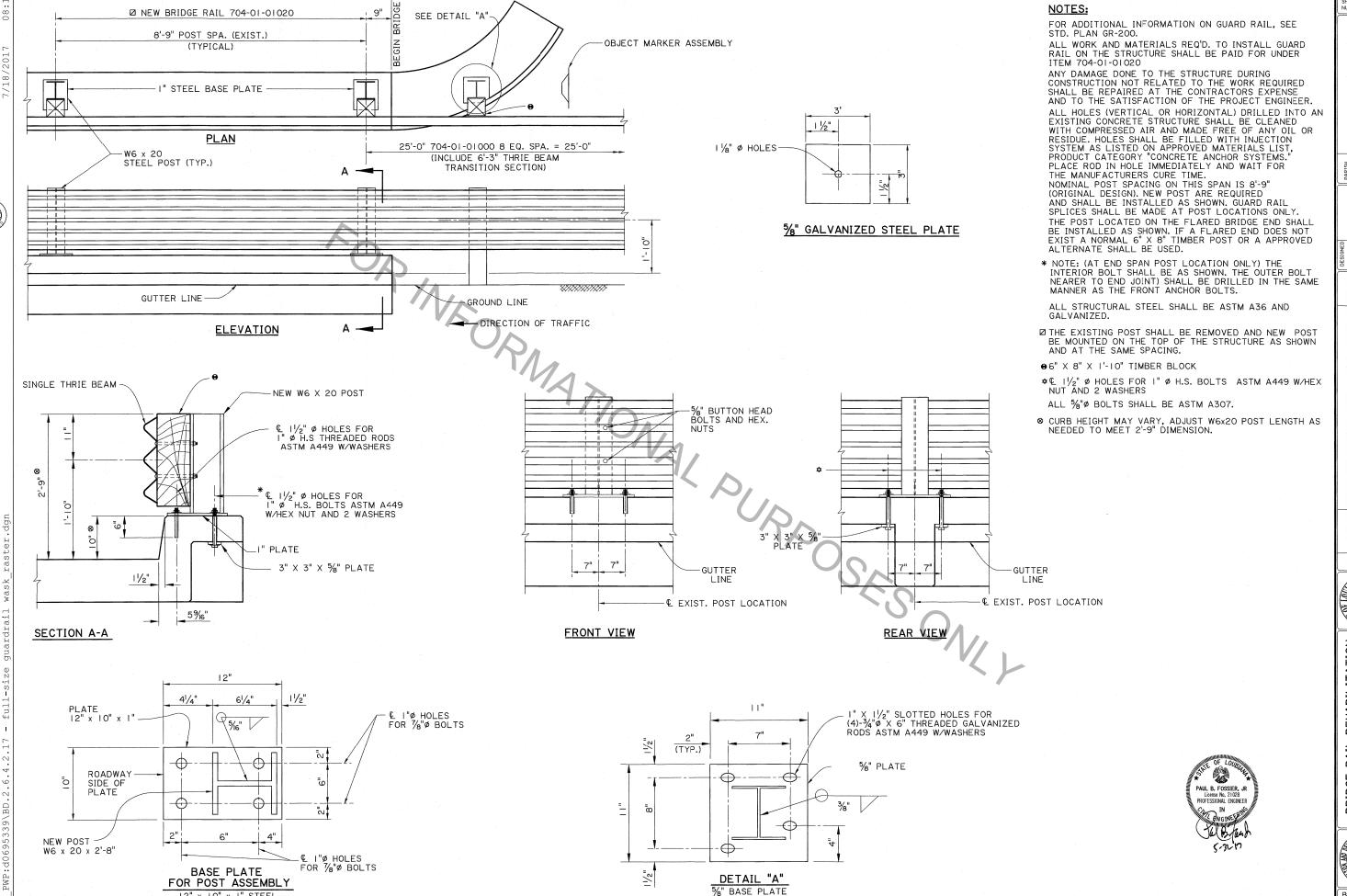


BRIDGE AND

FOSSIER PARISH
GAUDRY
BENTON
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SCTION
BRAUNER STATE

CHECKED C. (
DETAILED J. E
CHECKED P. F
CHECKED P. F
REVIEWED K. E

GUARDRAIL HEIGHT, ANCHOR BOLT NOTE BASE PLATE



12" x 10" x 1" STEEL

SECTION

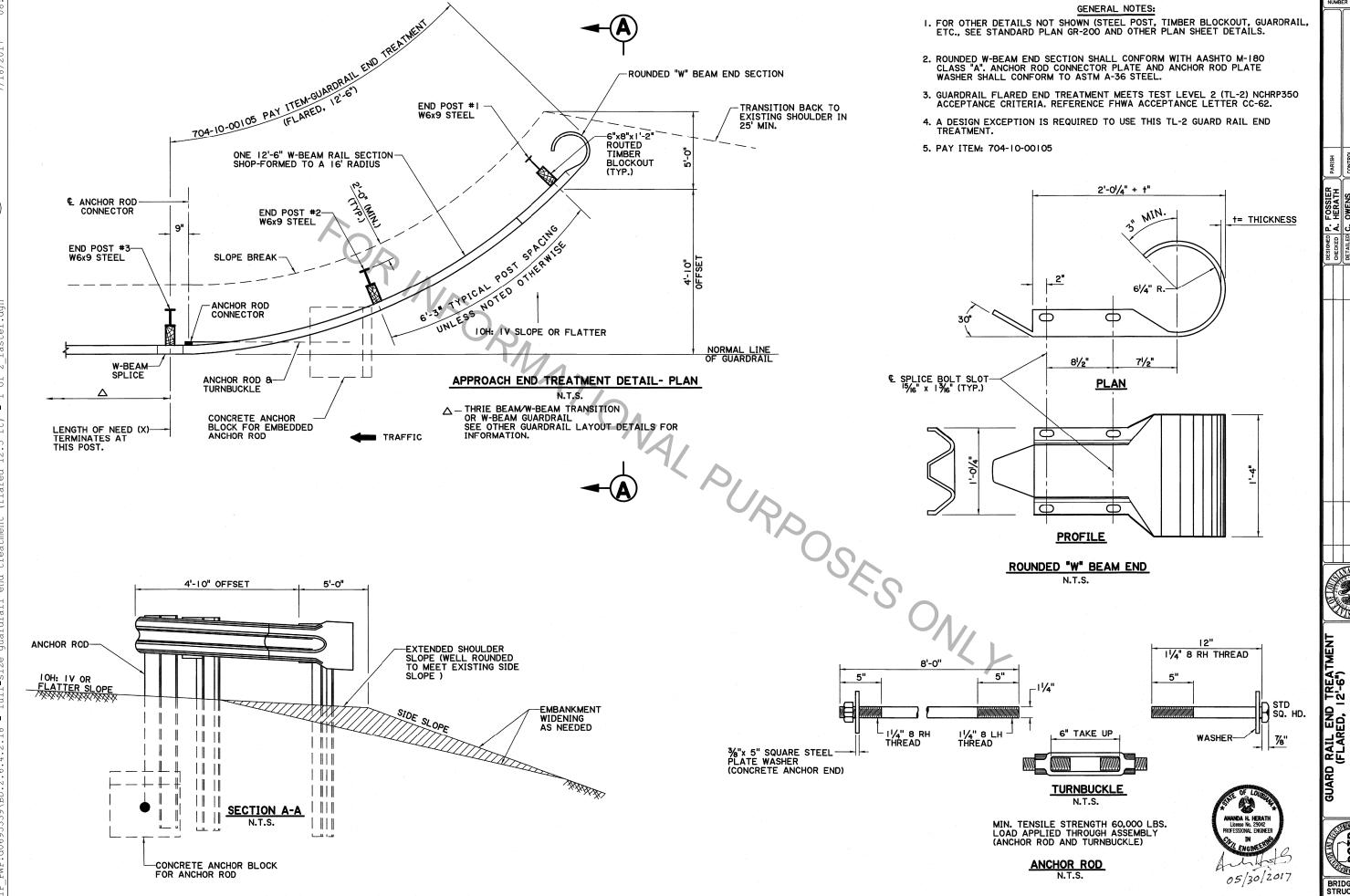
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GUARDRAIL HEIGHT, ANCHOR BOLT NOTE AND BASE PLATE

BRIDGE RAIL REHABILITATION WASKEY BRIDGES

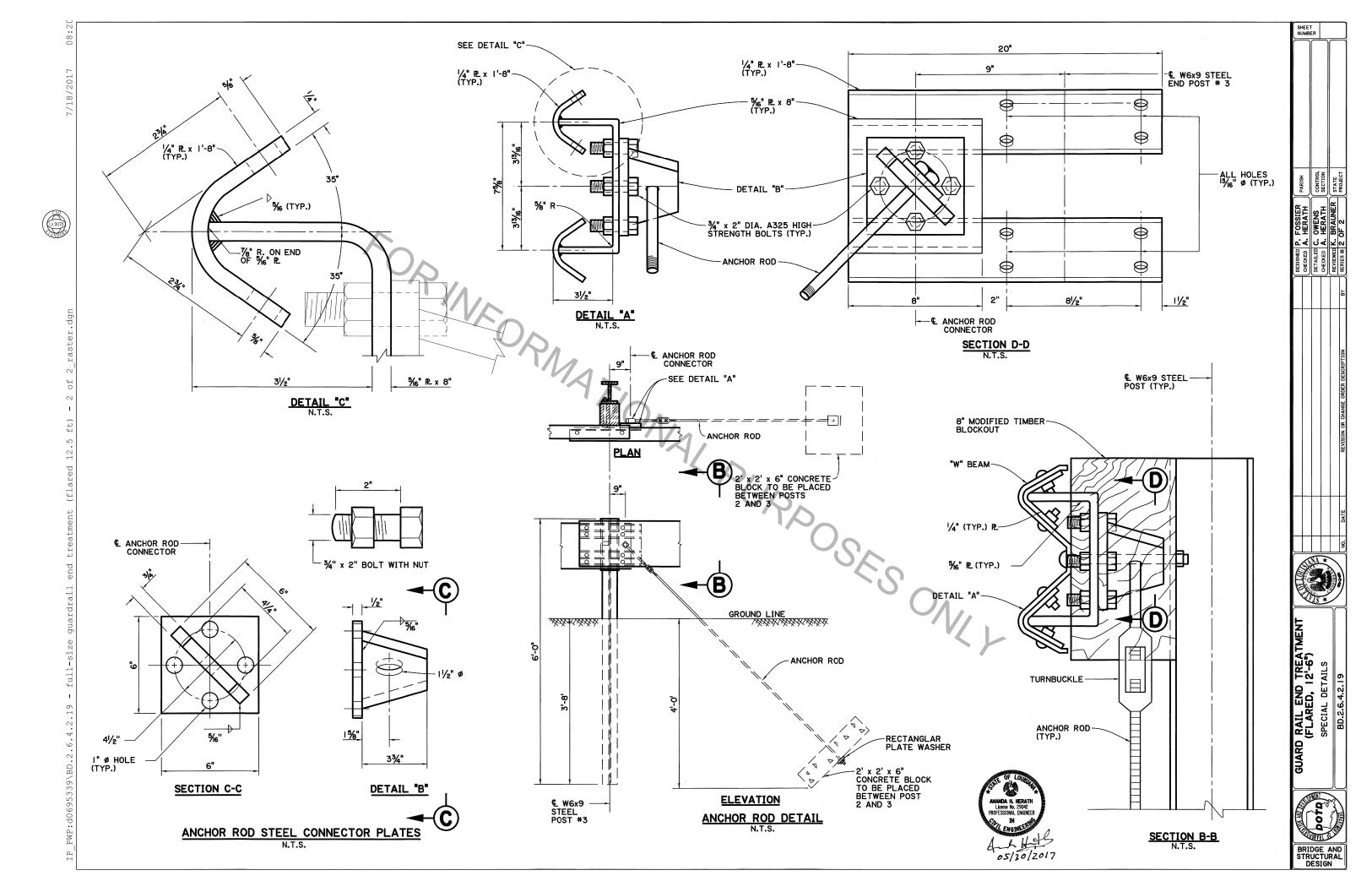




(A DOTT)

RAIL END (FLARED, I SPECIAL DET

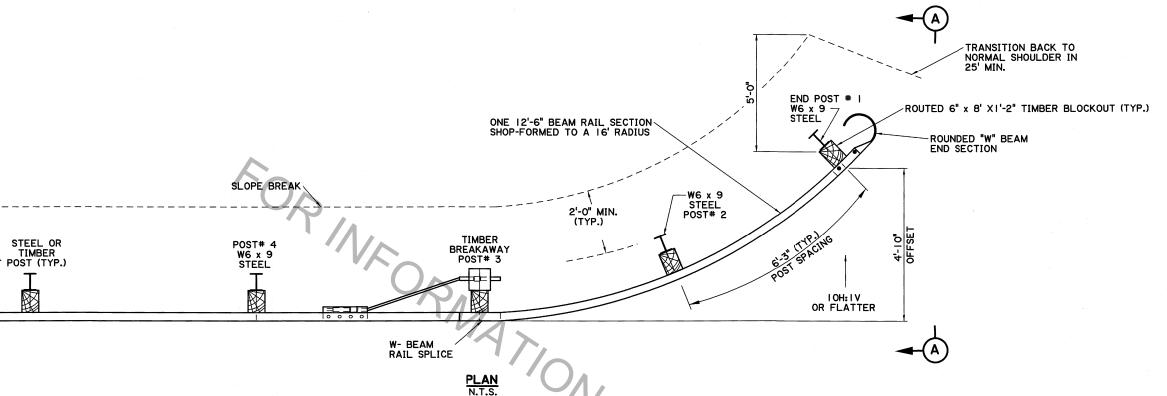




1-10

2'-0" MIN. (TYP.) TIMBER BREAKAWAY POST# 3 POST# 4 W6 x 9 STEEL IOH:IV OR FLATTER W- BEAM RAIL SPLICE EXISTING OR PROPOSED GUARD RAIL LAYOUT LENGTH OF NEED (X) TO TERMINATE AT THIS POST THRIE BEAM/ W-BEAM TRANSITION LIMIT OF PAYMENT FOR GUARD RAIL END TREATMENT (FLARED, 18'-9") OR W-BEAM GUARDRAIL SEE OTHER LAYOUT DETAIL SHEET 704-10-00110 6'-3" 12" ANCHOR PLATE ASSEMBLY 34" Ø CABLE ASSEMBLY IOH: IV OR FLATTER IN FRONT OF RAIL STEEL BEARING PLATE SOIL PLATE BREAKAWAY TIMBER POST %"Ø HEX BOLT (L=8"), STEEL WASHER, AND NUT STEEL POST 4 W6 x 9 STEEL POST 2 W6 x 9 STEEL POST I (END POST) W6 x 9 STEEL TUBE POST 3 TIMBER 05/30/2017

ELEVATION N.T.S.

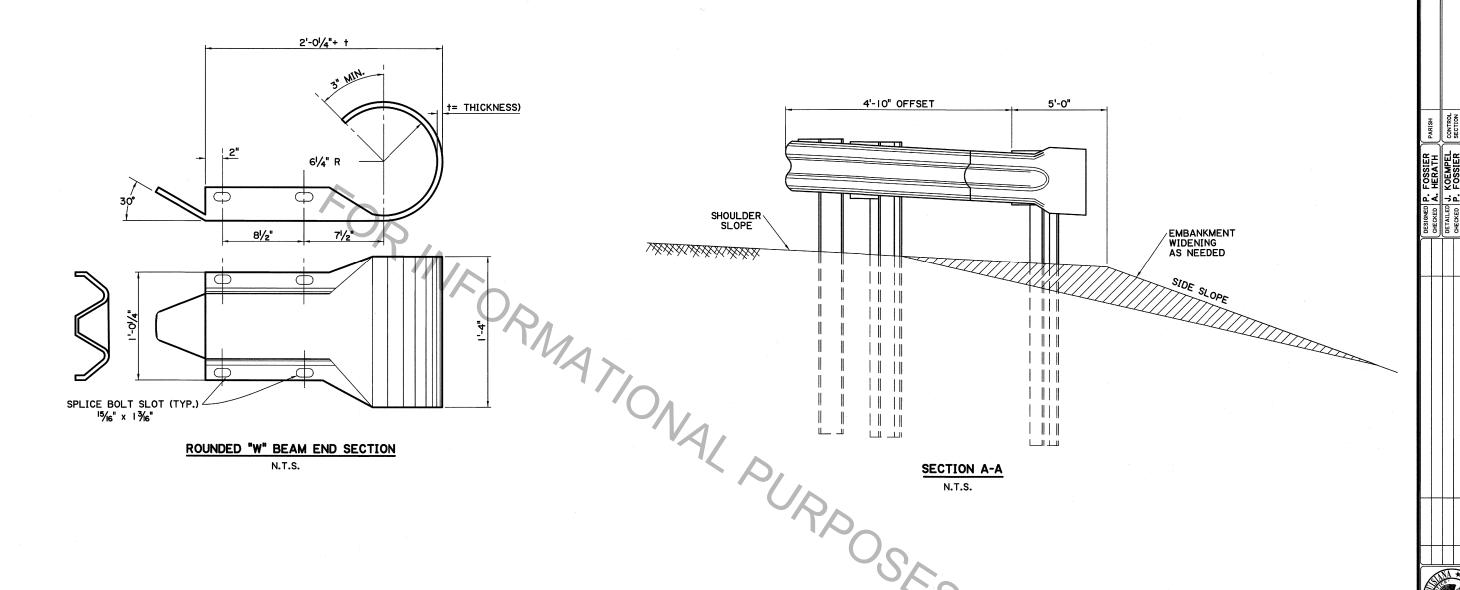






RAIL END TREATMENT FLARED (18'-9")





NOTES:

- I.) FOR ANCHOR PLATE ASSEMBLY, 34" & CABLE ASSEMBLY, STEEL BEARING PLATE, STEEL TUBE, SOIL PLATE, AND TIMBER BREAKAWAY POST, W-BEAM RAIL, POST TIMBER BLOCKOUT, AND OTHER MISC. DETAILS SEE STANDARD PLAN GR-200.
- 2.) GUARD RAIL END TREATMENT (FLARED, 18'-9") MEETS TEST LEVEL TWO (TL-2) AS PER NCHRP 350, REFERENCE FHWA ACCEPTANCE LETTER CC-62.
- 3.) ROUNDED W-BEAM END SECTION SHALL CONFORM WITH AASHTO M-180 CLASS "A".
- 4.) FOR OTHER PAY ITEMS OR LAYOUT DETAILS NOT SHOWN, SEE OTHER PLAN SHEET, AND STANDARD PLAN GR-200,
- 5) A DESIGN EXCEPTION IS REQUIRED TO USE THIS TL-2 GUARD RAIL END TREATMENT.



