

DESIGNED BY

CHECKED BY_

DRAWN BY ______
SUPERVISED BY___

365

KLP

BEB

CLASS "B" RIP

(TYP.)

敠

缀

BEGIN BRIDGE

綴

DATE 05/2018

DATE 05/2018

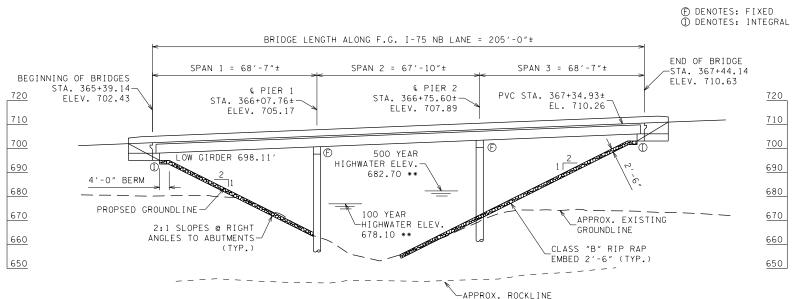
DATE 05/2018 DATE 05/2018

STA. 365+39.18±

綴

366

RAP 2'-6" THICK-



ELEVATION VIEW

NOT TO SCALE

LINE TANGENT AT STA. 366+60.04±

& BENT 1 STA.

366+07.76#

PLAN VIEW

NOT TO SCALE

END OF BRIDGE DRAIN

EXISTING BRIDGE TO BE REMOVED

(BRIDGE NO. 33100750009)

縱

-PROPOSED € I-75

G. I-75 NB LANE

END BRIDGE

367+44.18±

STRIP SEAL EXPANSION

PAVEMENT AT BRIDGE ENDS

SEE STD-1-5 (TYP.)

-JOINT AT ENDS OF PAVEMENT AT BRIDGE ENDS (TYP.)

 \Rightarrow

SC STA.

/367+01.85±

€ BENT 2 STA.

366+75.60±

EXISTING HIGH _ MAST LIGHT PVC 367+34.93

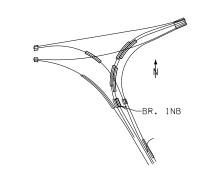
PVC 377+92.93

ELEV. 731.42

PVT 377+92.93

ELEV. 715.55

SPIRAL I-75_2B PIs 365+59.31 Ns 243,982.9423 CURVE I-75_2 PI 379+91.83 245,224.9318 2,204,669.7877 Es 2,203,955.9341 9° 54′ 40″ 100° 44′ 14″ (RT) Δs As 9°54′40″ LT 286.45 θs Δc 80° 54′ 53″ (RT) Dc 4° 37′ 14″ ST 143.41 Ls 429.00 Rc 1,240.00 Lc 1,751.16 Ts 1,718.97 Ls 429.00 SE 0.080 FT/FT



LOCATION MAP
NOT TO SCALE

HYDRAULIC DATA

STATE PROJ. NO. 33005-1185-44

P	ROJECT	NO.	YEAR	SHEET NO.	
IM/	′NH - 75 - 1	(131)	2018		
			REVISIONS	,	
NO.	DATE	BY	BRIEF	DESCRIPTION	

SCOPE OF WORK

- 1. CONSTRUCT BENTS, ABUTMENTS AND SUPERSTRUCTURE.
- 2. APPLY TEXTURE COATING TO PARAPET, BENTS, AND ABUTMENTS.

GENERAL NOTES

- 1. SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (JANUARY 1, 2015)
- LOADING: HL-93 LIVE LOADING; SEISMIC CATEGORY "B" WITH As=0.216, Sds=0.414, Sd1=0.167, (100.0 YEAR RETURN PERIOD). DEAD LOAD INCLUDE 35 LBS/SO. FT. FOR FUTURE WEARING SURFACE.
- DESIGN SPECIFICATIONS: AASHTO LRFD 7TH EDITION, 2014, AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, EDITION 2 (WITH INTERIMS).
- 4. CONCRETE: CLASS "A" F'C= 3000 PSI, BRIDGE DECK CLASS "DS" F'C= 4000 PSI
- REINFORCING STEEL: TO BE ASTM A615 GRADE 60. (EPOXY COAT ALL SLAB STEEL)
- SUPERSTRUCTURE: TO CONSIST OF 3 SPANS OF AASHTO TYPE III BEAMS AND COMPOSITE CONCRETE DECK SLAB.
- 7. USE STD-1-1SS BRIDGE RAILING.
- 8. BENTS ARE MULTI POST, FIXED CAP STRUCTURES.
- END OF BRIDGE DRAINS REQUIRED (USE WHEN NEEDED)
 TEXTURE COATING: TO BE MOUNTAIN GREY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE OFF WHITE (37896)
- 11. MACHINE RIP-RAP SHALL BE CLASS "B" , TO MEET THE QUALITY REQUIREMENTS OF SECTION 709 AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEMS.
- 12. BRIDGE EXCAVATION IS BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND LINE AT BENTS.
- 13. BRIDGE DECK FINISH TO BE IN ACCORDANCE WITH NOTE "C" IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA SHALL BE SEPARATED FORM FLOWING WATER OR CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMORARY DIVERSION CULVERTS.

2041 ADT (I-75NB) = 127,360

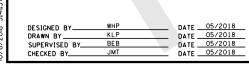
DESIGN SPEED (I-75NB) = 60 MPH

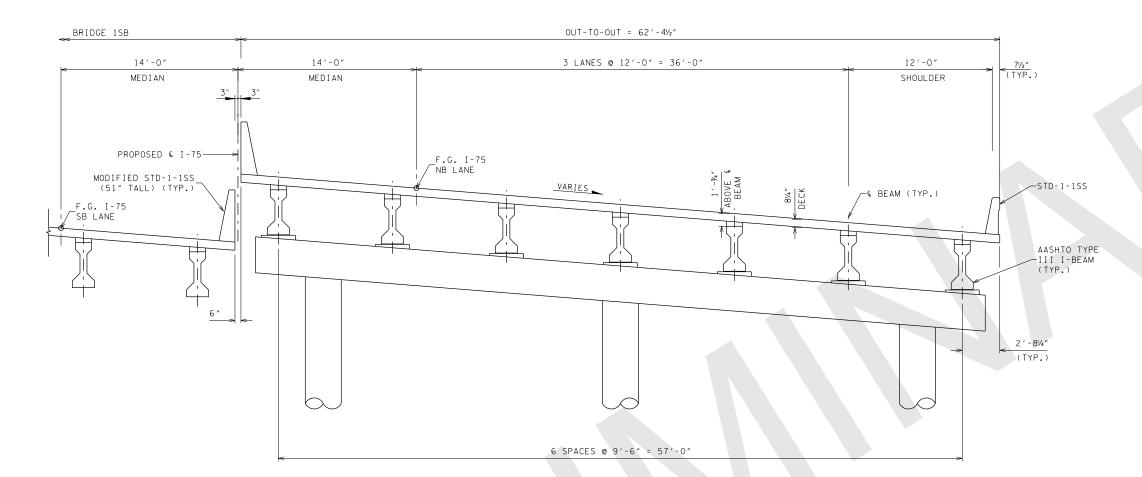
62'-0" ROADWAY WITH STD-1-1SS

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1 NB
PRELIMINARY BRIDGE LAYOUT
BRIDGE NO. XX-XXX-XXXX
I-75 NB
OVER SPRING CREEK
HAMILTON COUNTY
2018







TYPICAL SECTION AT BENT LOOKING FORWARD NOT TO SCALE

STATE PROJ. NO. 33005-1185-44

 PROJECT NO.
 YEAR
 SHEET NO.

 IM/NH-75-1(131)
 2018

REVISIONS

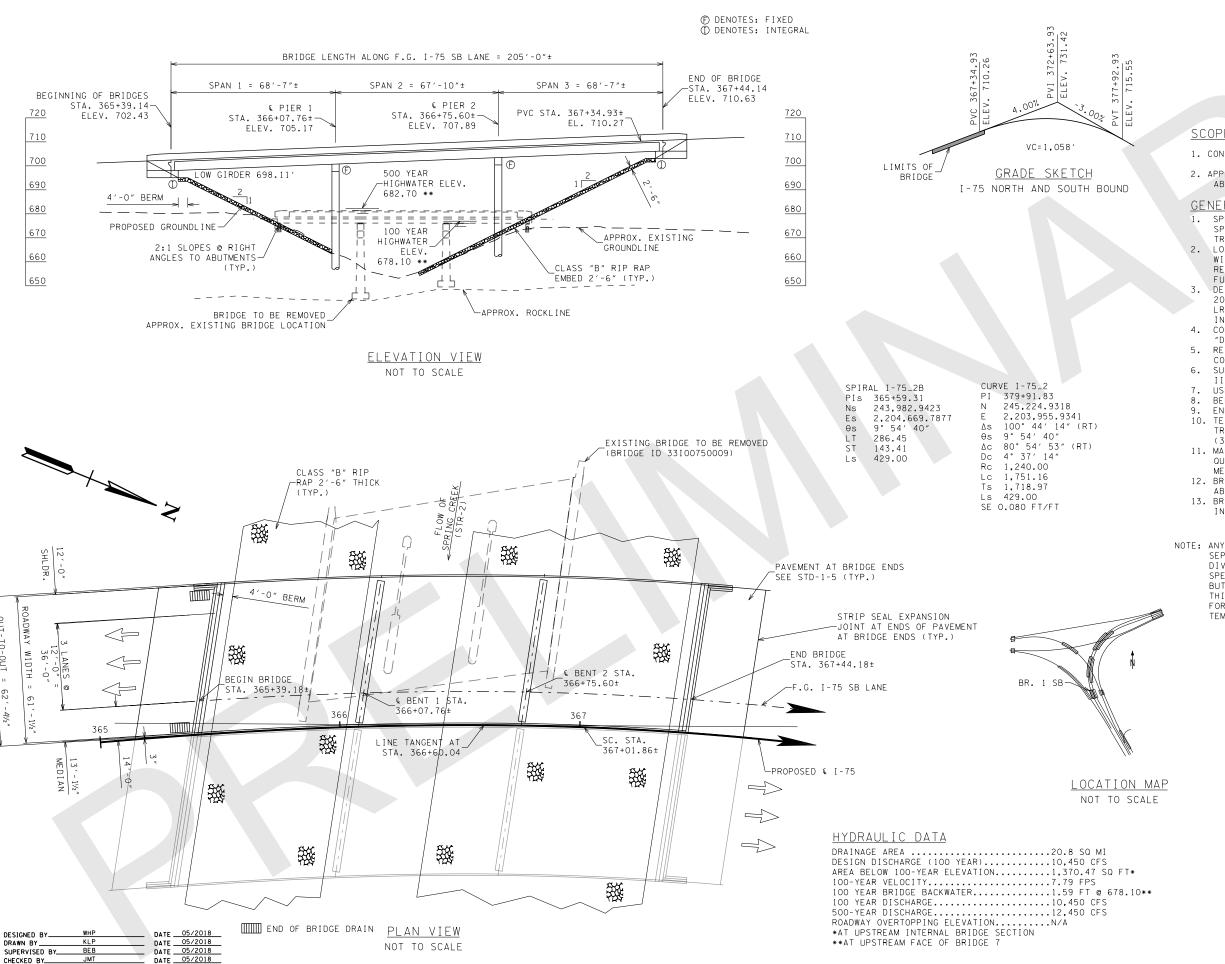
DATE BY BRIEF DESCRIPTION

3" 3" 6" 6" SCREEN 3'-0" STD-1-1SS

14'-0" MEDIAN 14'-0" MEDIAN

MODIFIED MEDIAN BARRIER
51" TALL
NOT TO SCALE

DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1 NB
PRELIMINARY SUPERSTRUCTURE
BRIDGE NO XX-XXXX-XXXX
I-75NB
OVER
SPRING CREEK
HAMILTON COUNTY
2018



STATE PROJ. NO. 33005-1185-44

1	ROJECI	NO.	TEAR	SHEET NO.	
IM/	'NH - 75 - 1	(131)	2018		J
			REVISIONS	ı	
NO.	DATE	BY	BRIEF	DESCRIPTION	
				·	

DDO IECT NO VEAD SHEET NO

SCOPE OF WORK

- 1. CONSTRUCT BENTS. ABUTMENTS AND SUPERSTRUCTURE.
- 2. APPLY TEXTURE COATING TO PARAPET, BENTS, AND ABUTMENTS.

GENERAL NOTES

- 1. SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (JANUARY 1, 2015)
- LOADING: HL-93 LIVE LOADING; SEISMIC CATEGORY "B" WITH AS=0.216, Sds=0.414, Sd1=0.167, (100.0 YEAR RETURN PERIOD). DEAD LOAD INCLUDE 35 LBS/SO. FT. FOR FUTURE WEARING SURFACE.
- DESIGN SPECIFICATIONS: AASHTO LRFD 7TH EDITION, 2014, AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, EDITION 2 (WITH INTERIMS).
- CONCRETE: CLASS "A" F'C= 3000 PSI, BRIDGE DECK CLASS "DS" F'C= 4000 PSI
- REINFORCING STEEL: TO BE ASTM A615 GRADE 60. (EPOXY COAT ALL SLAB STEEL)
- SUPERSTRUCTURE: TO CONSIST OF 3 SPANS OF AASHTO TYPE III BEAMS AND COMPOSITE CONCRETE DECK SLAB.
- USE STD-1-ISS BRIDGE RAILING. BENTS ARE MULTI POST, FIXED CAP STRUCTURES.
- END OF BRIDGE DRAINS REQUIRED (USE WHEN NEEDED) TEXTURE COATING: TO BE MOUNTAIN GREY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE OFF WHITE (37886)
- 11. MACHINE RIP-RAP SHALL BE CLASS "B" , TO MEET THE QUALITY REQUIREMENTS OF SECTION 709 AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEMS.
- 12. BRIDGE EXCAVATION IS BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND LINE AT BENTS.

 13. BRIDGE DECK FINISH TO BE IN ACCORDANCE WITH NOTE "C" IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA SHALL BE SEPARATED FORM FLOWING WATER OR CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMORARY DIVERSION CULVERTS.

2041 ADT (I-75SB) = 127,360

DESIGN SPEED (I-75SB) = 60 MPH

62'-0" ROADWAY WITH STD-1-1SS

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 1 SB PRELIMINARY BRIDGE LAYOUT BRIDGE NO. XX-XXXX-XXXX I - 75SB OVER SPRING CREEK HAMILTON COUNTY 2018



12′-0″ 3 LANES @ 12'-0" = 36'-0" 14'-0" 14'-0" 71/2" MEDIAN MEDIAN SHOULDER STD-1-1SS PROPOSED & I-75-F.G. I-75 NB LANE MODIFIED STD-1-1SS_ (51" TALL) (TYP.) F.G. I-75_ SB LANE VARIES -€ BEAM (TYP.) AASHTO TYPE —III I-BEAM (TYP.) 2'-81/4" (TYP.) 14'-0" MEDIAN 14'-0" MEDIAN 15" GLARE SCREEN 6 SPACES @ 9'-6" = 57'-0" 3′-0″ STD-1-1SS TYPICAL SECTION AT BENT LOOKING FORWARD NOT TO SCALE MODIFIED MEDIAN BARRIER 51" TALL NOT TO SCALE

OUT-TO-OUT = 62'-41/2"

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STATE PROJ. NO. 33005-1185-44

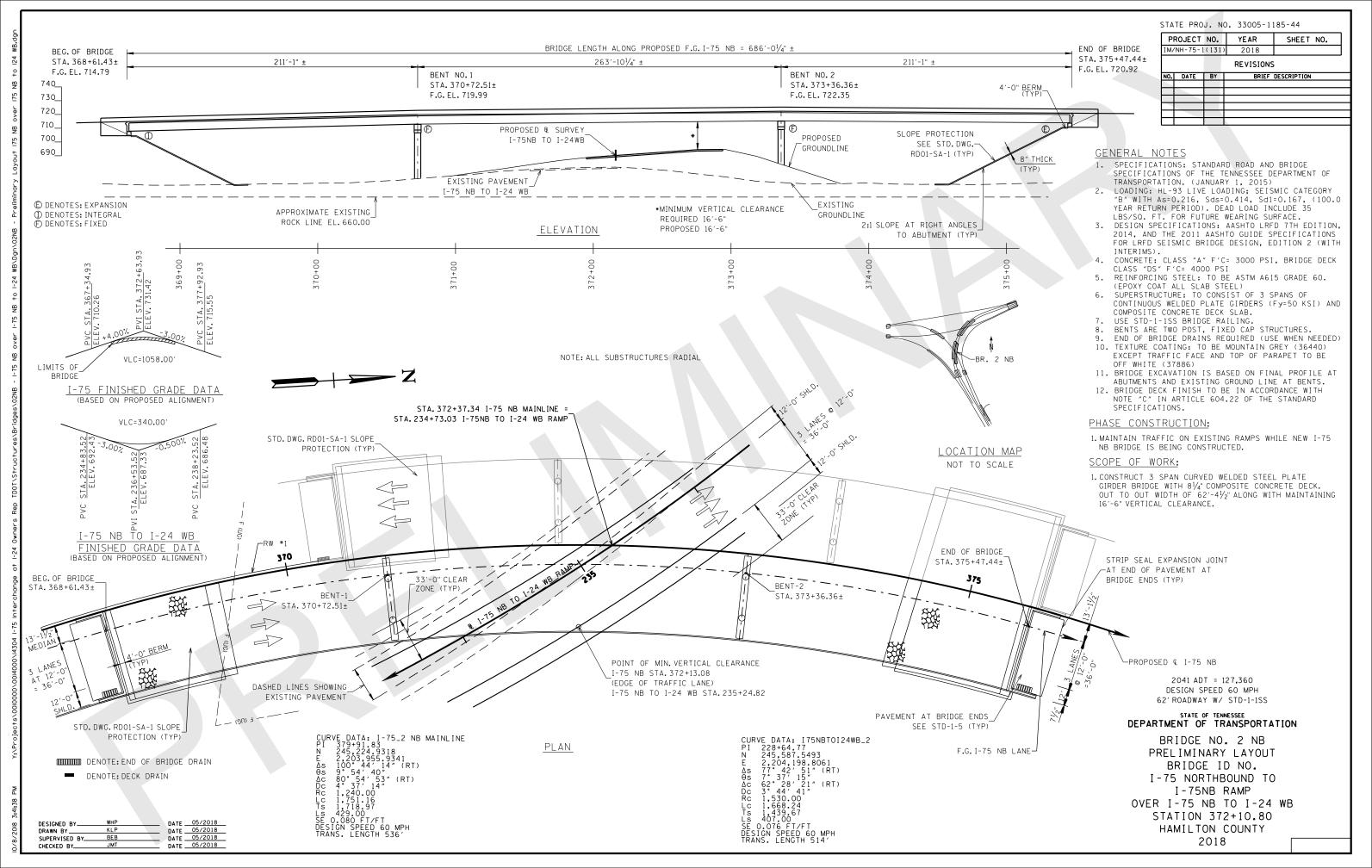
REVISIONS

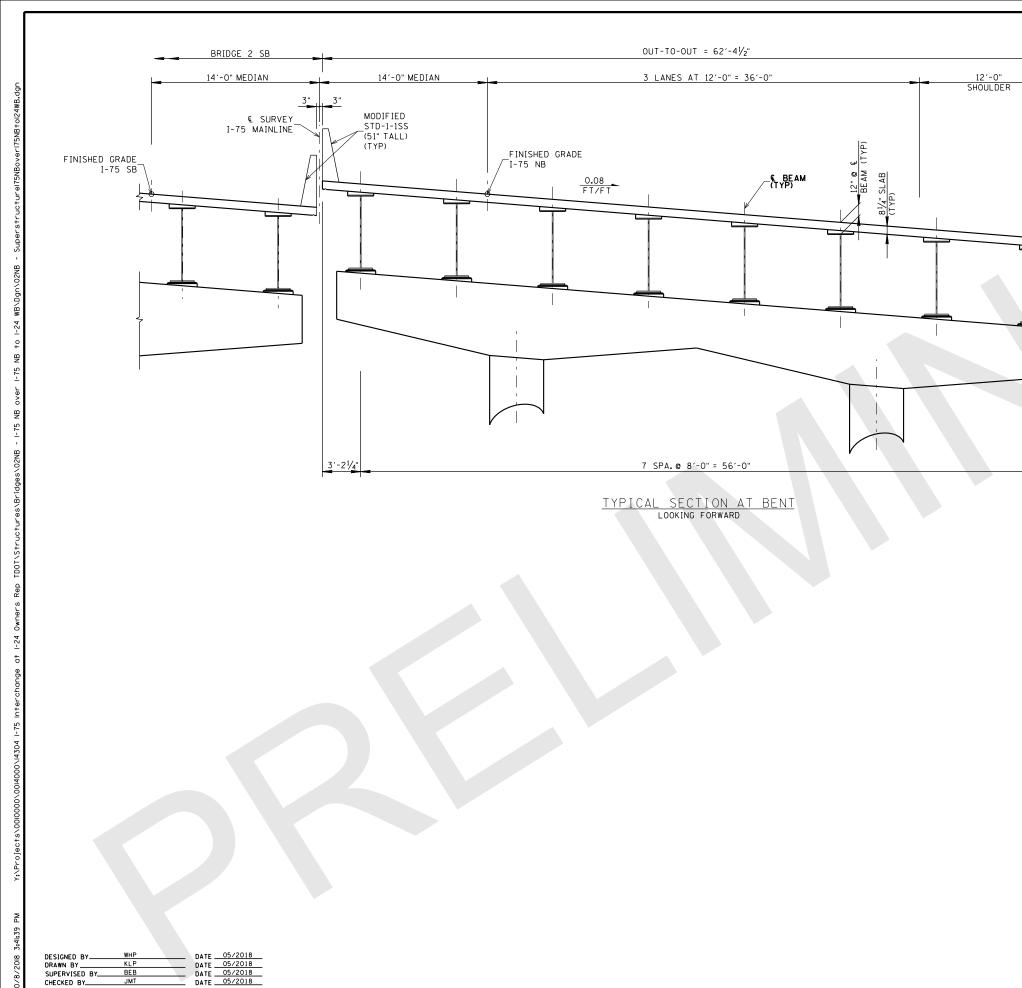
BRIEF DESCRIPTION

PROJECT NO. YEAR
IM/NH-75-1(131) 2018

BRIDGE 1NB

BRIDGE NO. 1 SB
PRELIMINARY SUPRESTRUCTRE
BRIDGE NO XX-XXXX-XXXX
I-75SB
OVER
SPRING CREEK
HAMILTON COUNTY
2018



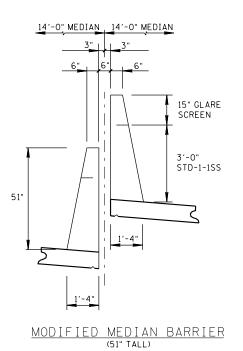


PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131)

REVISIONS

NO. DATE BY BRIEF DESCRIPTION

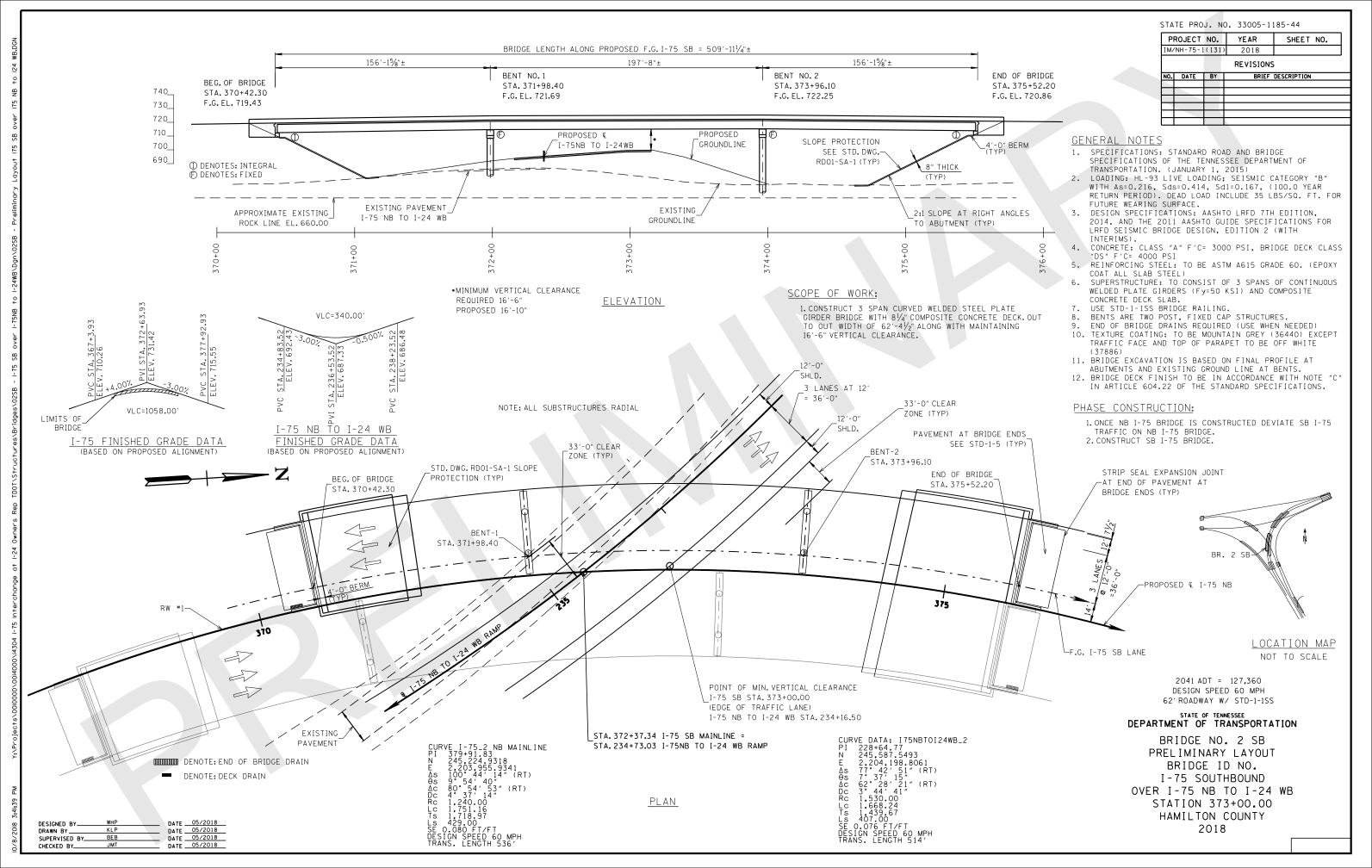


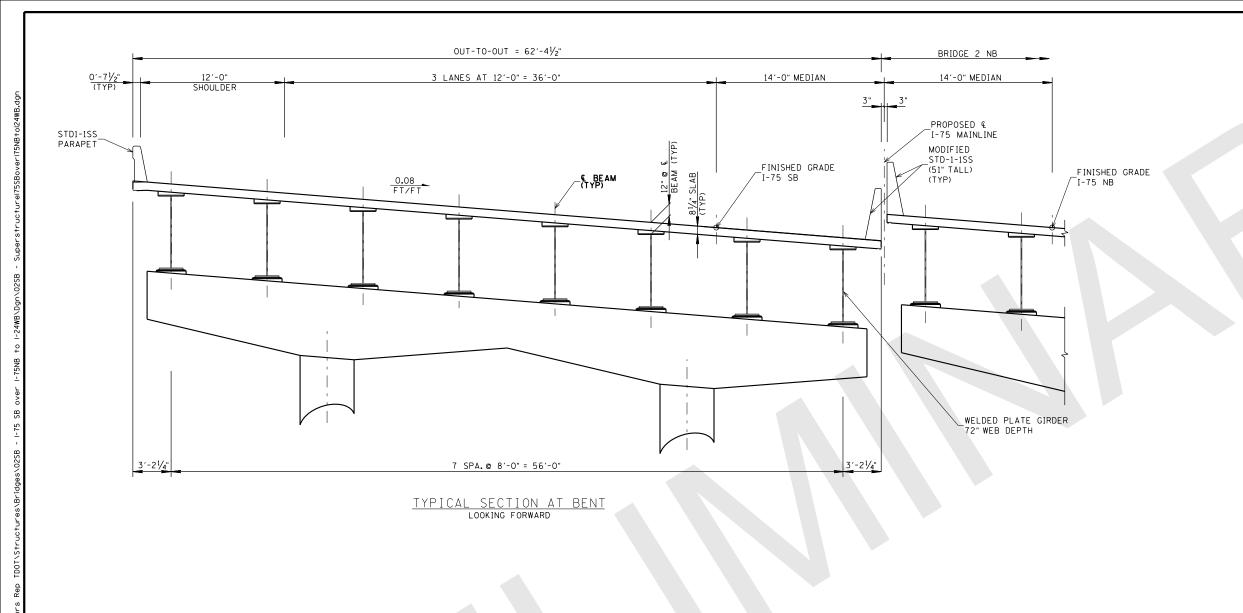
_STD-1-1SS PARAPET

_WELDED PLATE GIRDER 78" WEB DEPTH

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2 NB
SUPERSTRUCTURE
BRIDGE NO XX-XXXX-XXXX
I-75 NORTHBOUND
OVER
I-75NB TO I-24 WB
HAMILTON COUNTY
2018





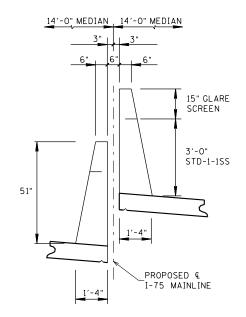
STATE PROJ. NO. 33005-1185-44

PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131)

REVISIONS

NO. DATE BY BRIEF DESCRIPTION



MODIFIED MEDIAN BARRIER

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2 SB
SUPERSTRUCTURE
BRIDGE NO XX-XXXX-XXXX
I-75 SOUTHBOUND
OVER
I-75 NB TO I-24 WB
HAMILTON COUNTY
2018

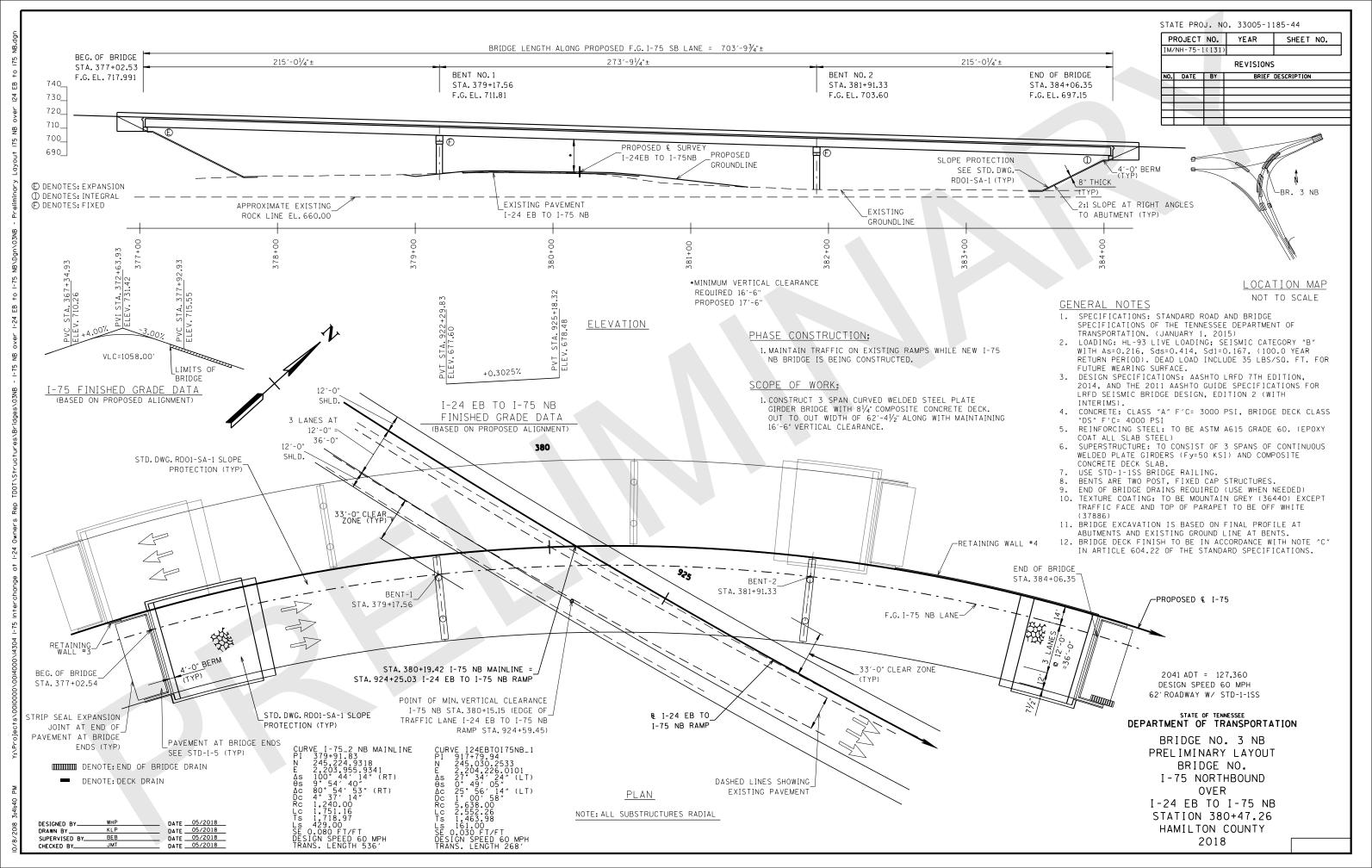
. .

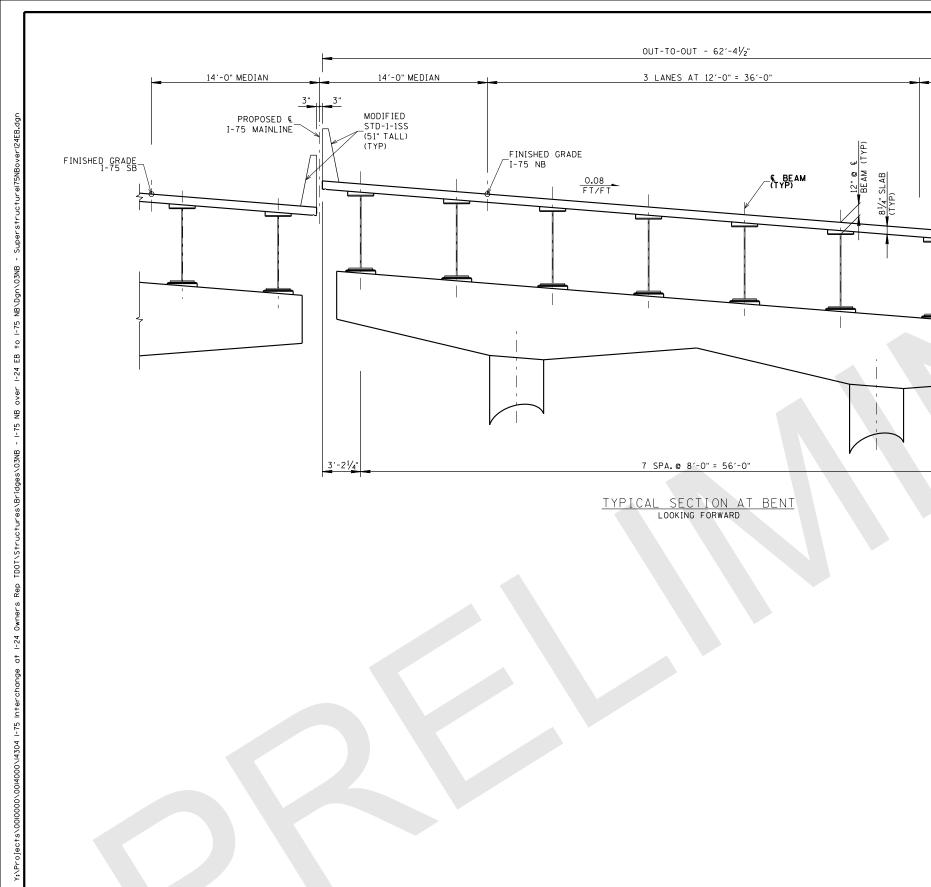
 DESIGNED BY
 WHP
 DATE
 05/2018

 DRAWN BY
 KLP
 DATE
 05/2018

 SUPERVISED BY
 BEB
 DATE
 05/2018

 CHECKED BY
 JMT
 DATE
 05/2018





DATE 05/2018
DATE 05/2018
DATE 05/2018
DATE 05/2018

DESIGNED BY-

SUPERVISED BY_____
CHECKED BY____

BEB JMT PROJECT NO. 33005-1185-44

PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131)

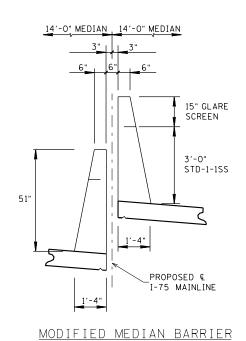
REVISIONS

NO. DATE BY BRIEF DESCRIPTION

12'-0" SHOULDER

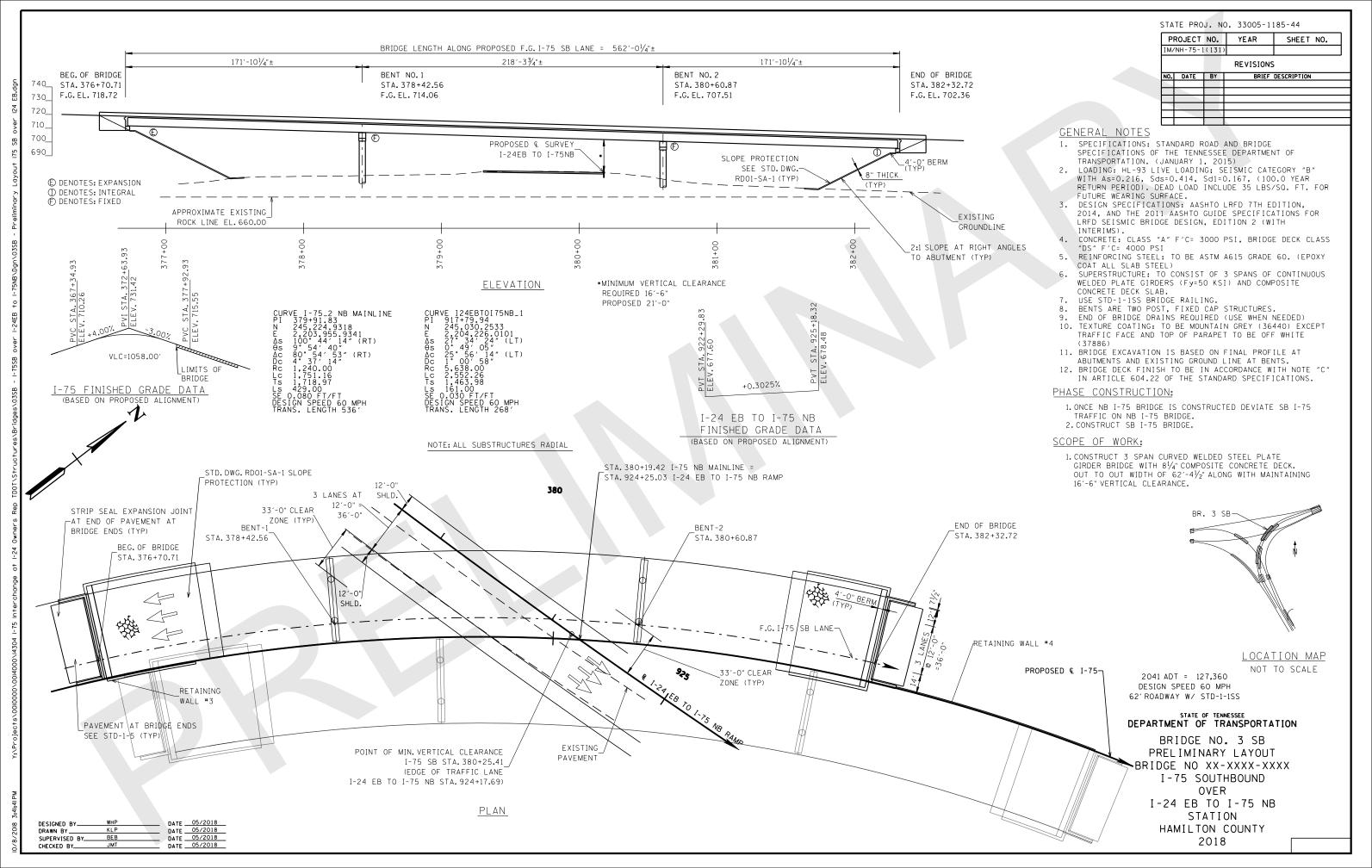
> _STD1-1SS PARAPET

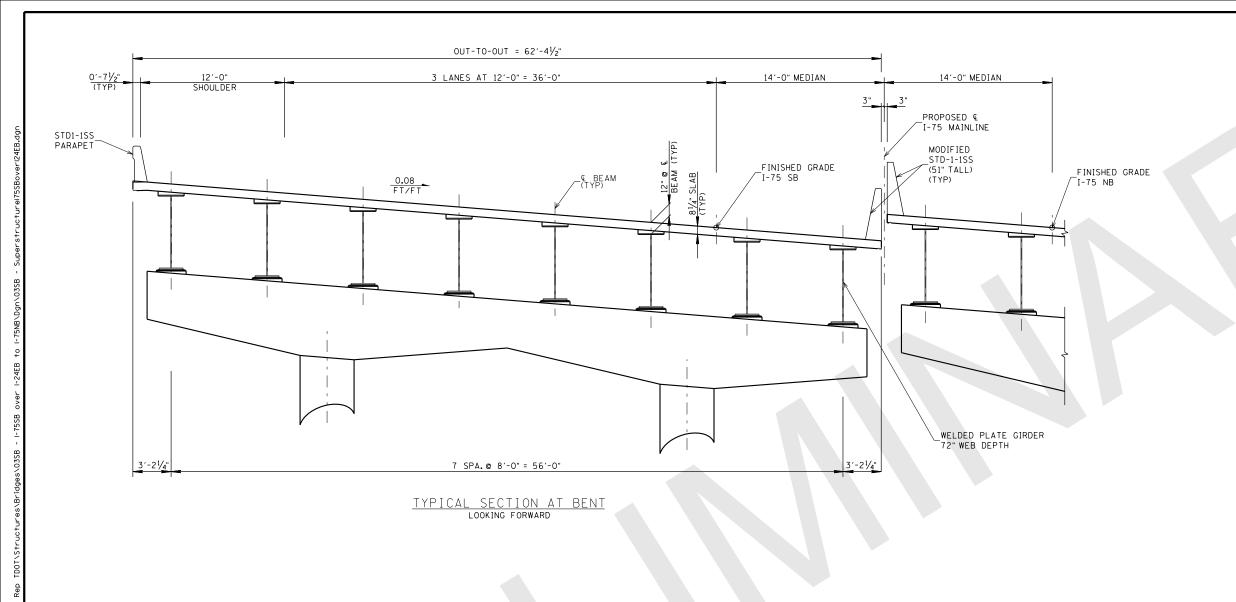
_WELDED PLATE GIRDER 86" WEB DEPTH



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 3 NB
SUPERSTRUCTURE
BRIDGE NO XX-XXXX-XXXX
I-75 NORTHBOUND
OVER
I-24 EB TO I-75 NB
HAMILTON COUNTY
2018



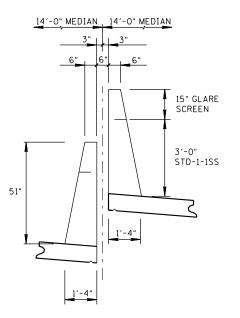


PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131)

REVISIONS

NO. DATE BY BRIEF DESCRIPTION



MODIFIED MEDIAN BARRIER
(51" TALL)

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 3 SB
SUPERSTRUCTURE
BRIDGE NO XX-XXXX-XXXX
I-75 SOUTHBOUND
OVER
I-24 EB TO I-75 NB
HAMILTON COUNTY
2018

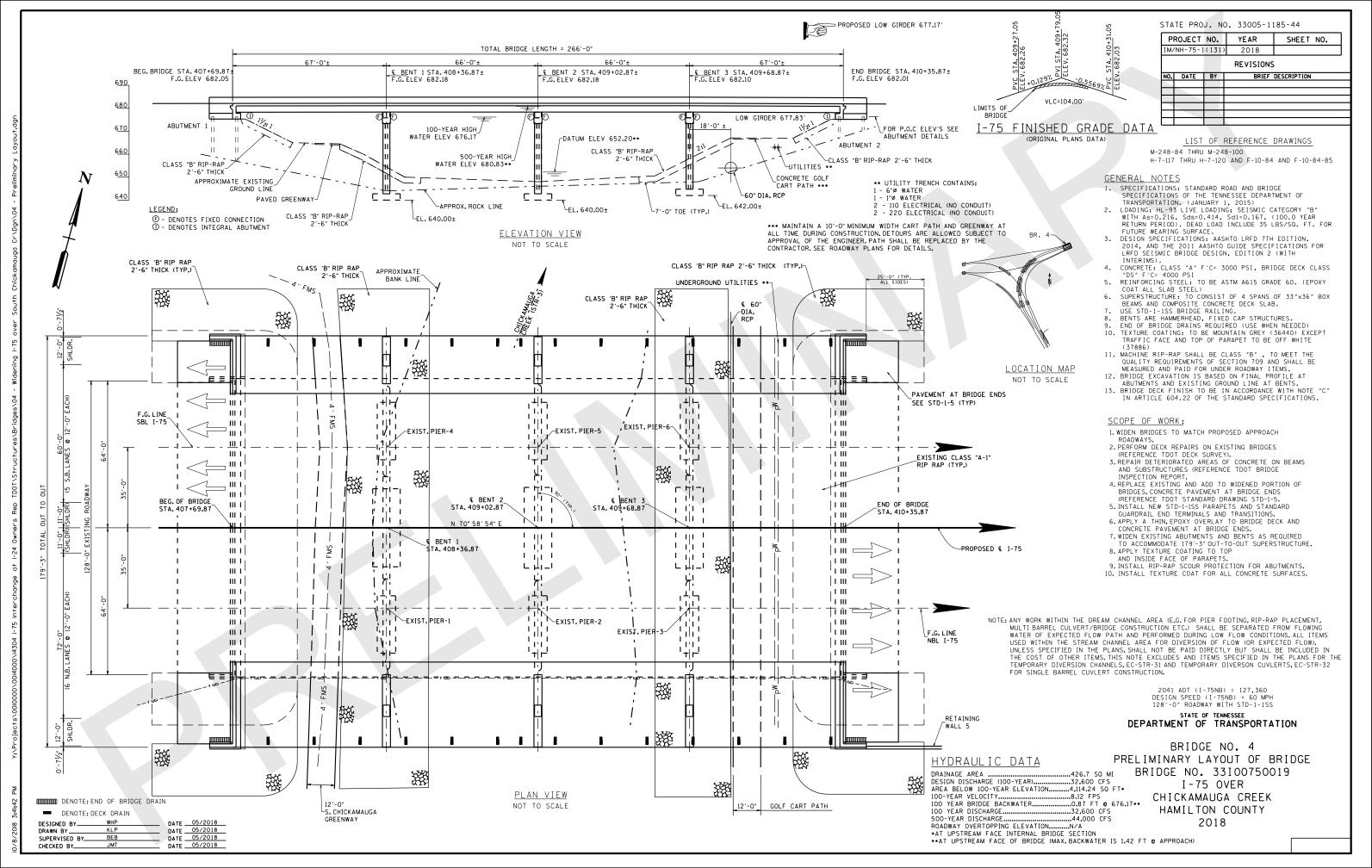
10/8/2018 3:41:42 PM Y

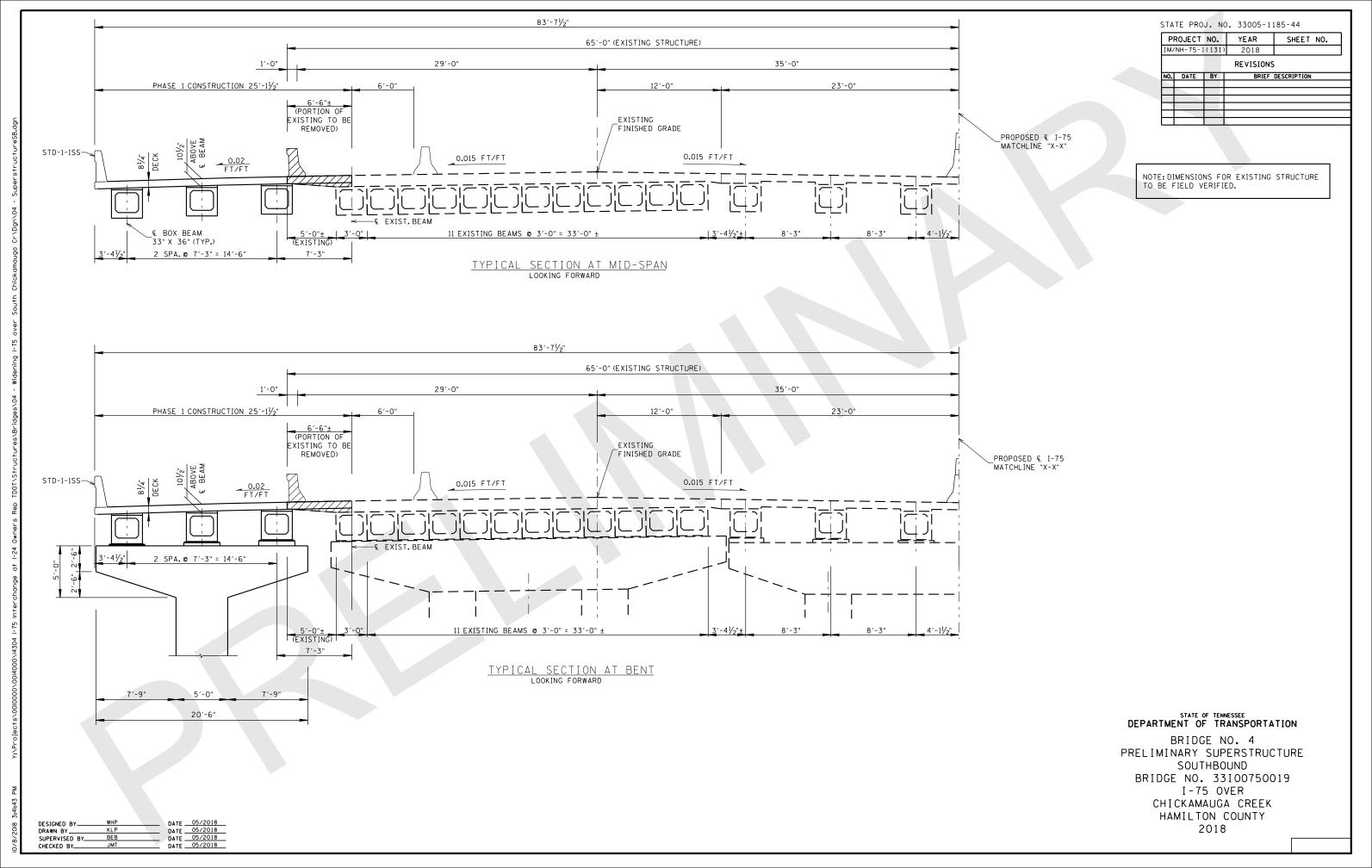
 DESIGNED BY
 WHP
 DATE
 05/2018

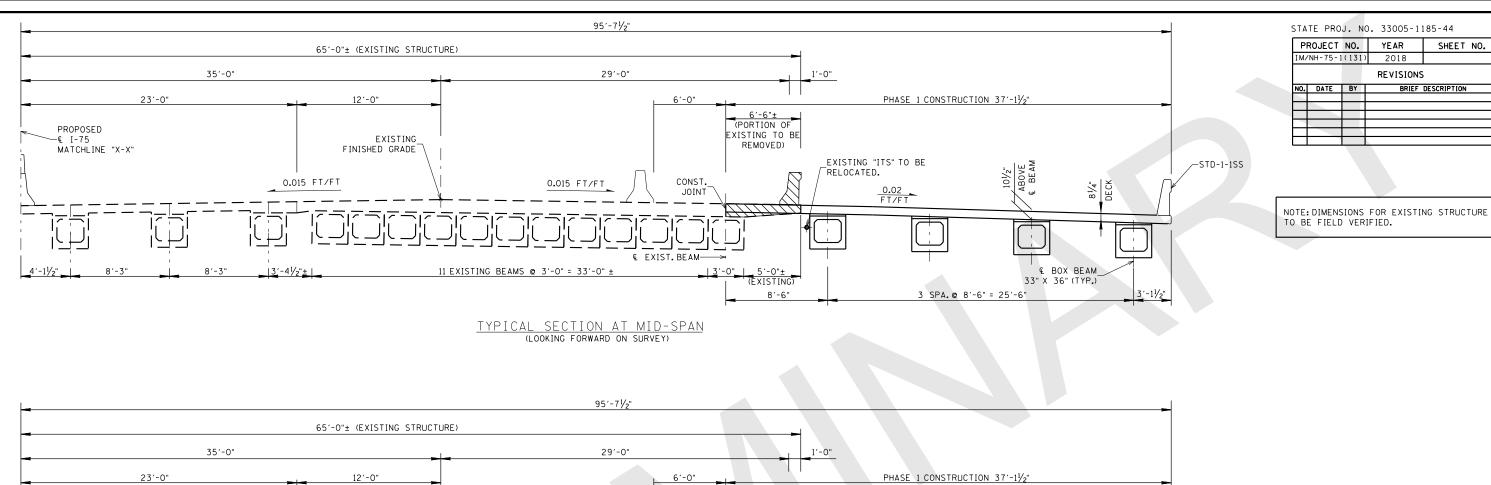
 DRAWN BY
 KLP
 DATE
 05/2018

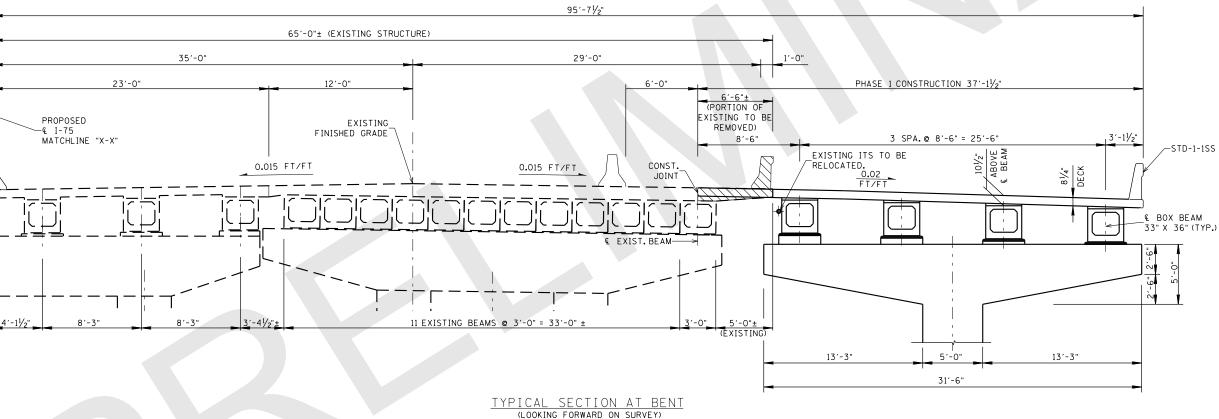
 SUPERVISED BY
 BEB
 DATE
 05/2018

 CHECKED BY
 JMT
 DATE
 05/2018









STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

YEAR

2018

REVISIONS

BRIEF DESCRIPTION

SHEET NO.

BRIDGE NO. 4 PRELIMINARY SUPERSTRUCTURE NORTHBOUND BRIDGE NO. 33100750019 I-75 OVER CHICKAMAUGA CREEK HAMILTON COUNTY 2018

DATE 05/2018
DATE 05/2018
DATE 05/2018
DATE 05/2018 DESIGNED BY-KLP SUPERVISED BY_____
CHECKED BY_____ BEB JMT



TYPICAL BENT SECTION
NOT TO SCALE

XXXXXX

TYPICAL BEAM ELEVATION

NOT TO SCALE

1-755B WIDEN SECTION 1991 ORIGINAL 1-75NB

REVISIONS

NO. DATE BY BRIEF DESCRIPTION

CRACK

OVERHANG/ BETWEEN BEAMS

STATE PROJ. NO. 33005-1185-44

PROJECT NO. YEAR

SPALL/DELAMINATION

SHOWING BOTTOM OF DECK
NOT TO SCALE

APPROXIMATE LINEAR FOOT OF CRACK: 1150 LF APPROXIMATE SPALLS/DELAMINATIONS: 25 SF

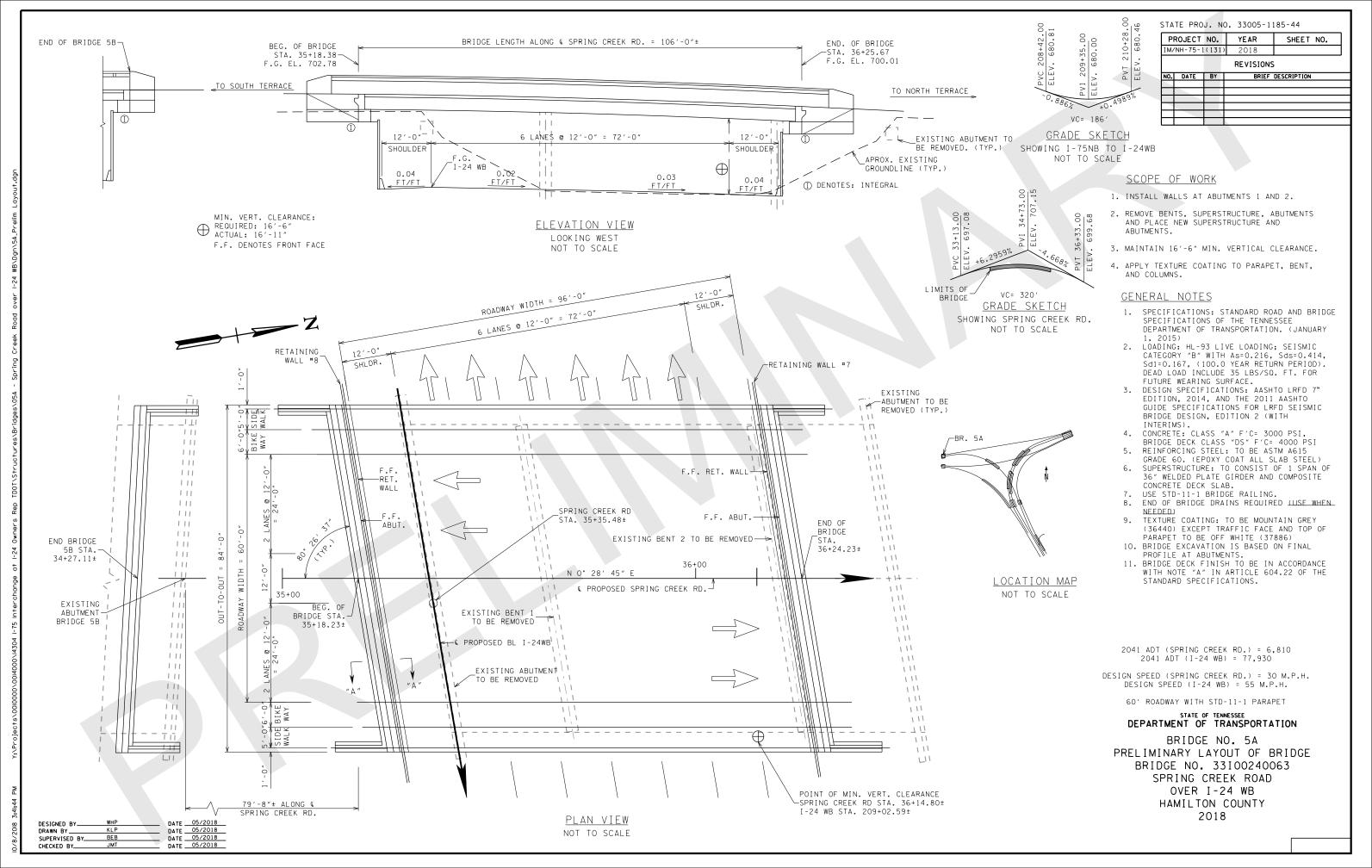
BRIDGE

TYPICAL ABUTMENT SECTION

NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 4
PRELIMINARY REPAIR SHEET
BRIDGE NO. 33100750019
I-75 OVER
CHICKAMAUGA CREEK
HAMILTON COUNTY
2018



DESIGN DESIGN DRAWN SUPER CHECKI

 DESIGNED BY
 WHP
 DATE
 05/2018

 DRAWN BY
 KLP
 DATE
 05/2018

 SUPERVISED BY
 BEB
 DATE
 05/2018

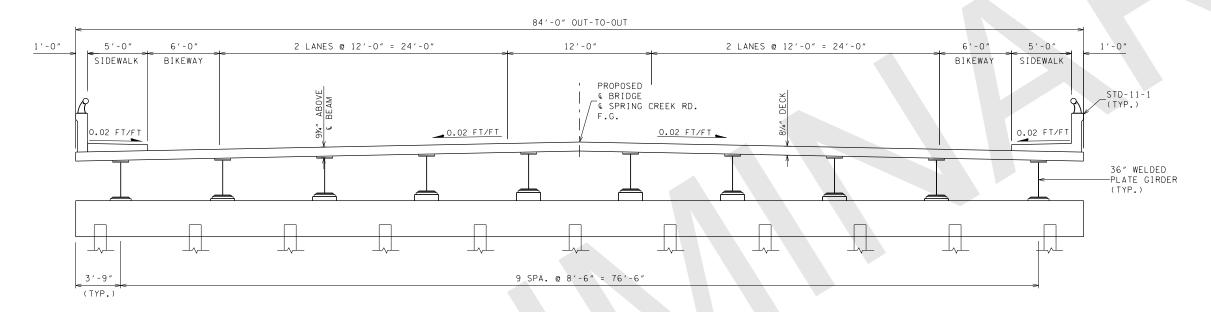
 CHECKED BY
 JMT
 DATE
 05/2018

PROJECT NO. YEAR SHEET NO.

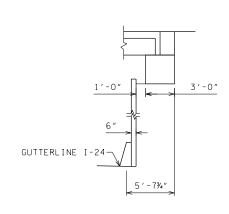
IM/NH-75-1(131) 2018

REVISIONS

NO. DATE BY BRIEF DESCRIPTION

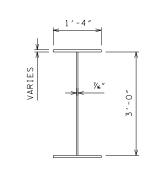


TYPICAL SECTION AT ABUTMENT NOT TO SCALE



SECTION "A"-"A"

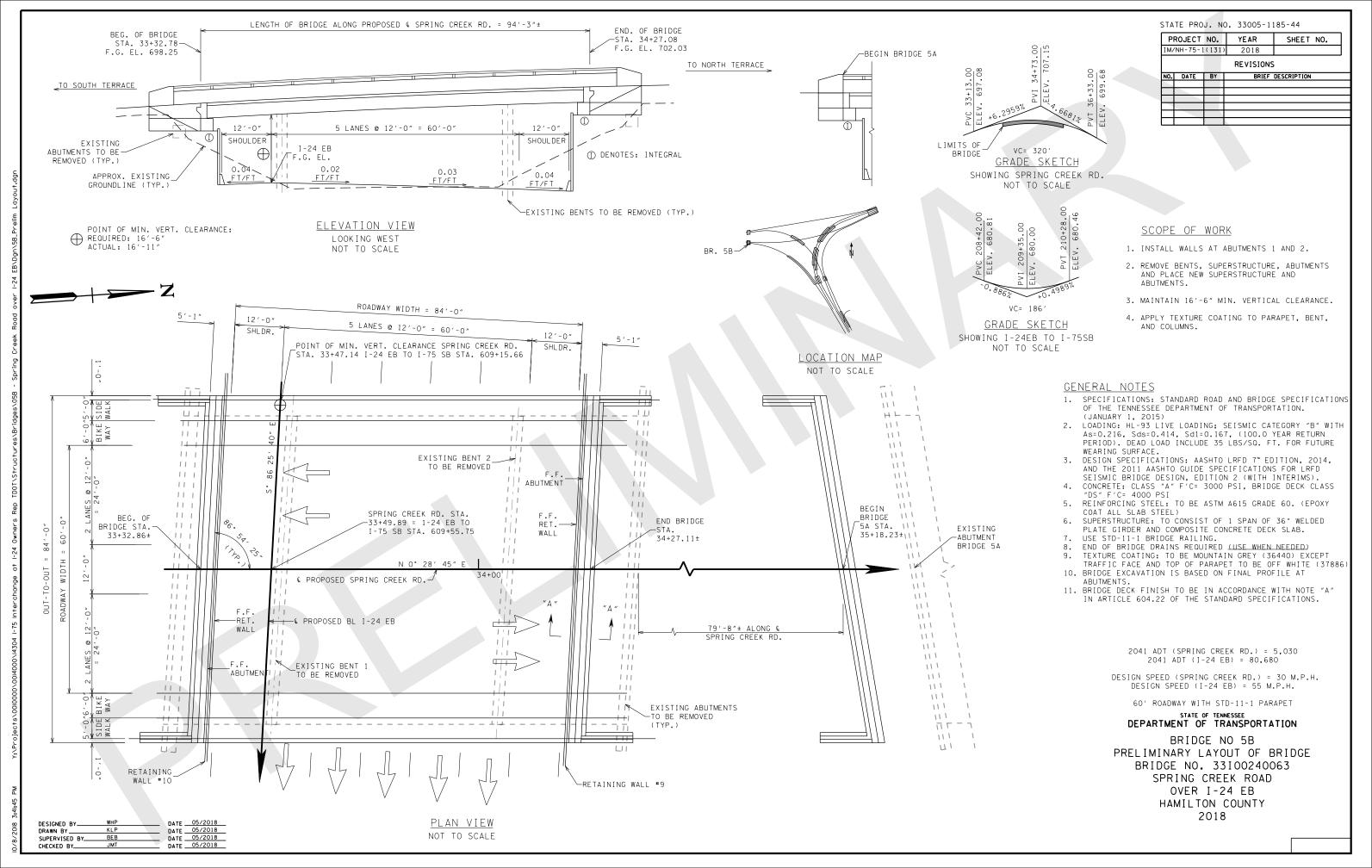
NOT TO SCALE



TYPICAL BEAM CROSS SECTION
NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

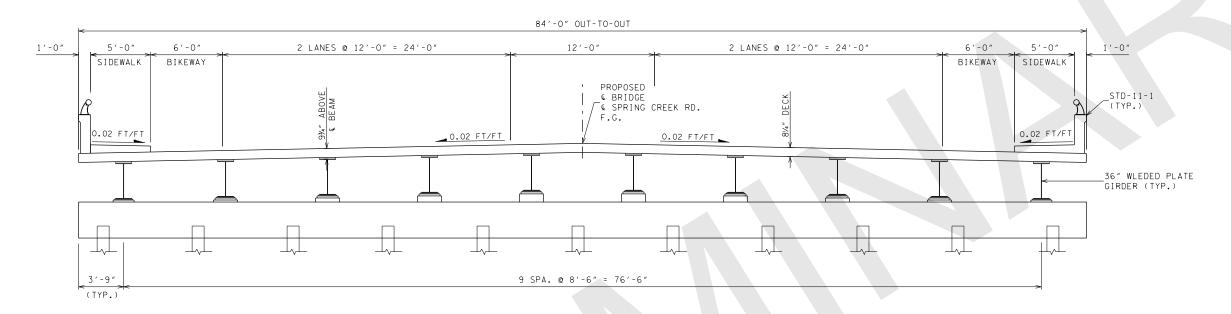
BRIDGE NO. 5A
PRELIMINARY SUPERSTRUCTURE
BRIDGE NO. 33100240063
SPRING CREEK ROAD
OVER I-24 WB
HAMILTON COUNTY
2018



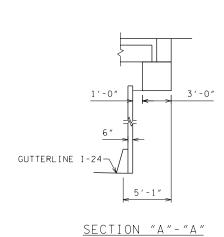


DATE 05/2018
DATE 05/2018
DATE 05/2018
DATE 05/2018
DATE 05/2018 DESIGNED BY-BEB JMT SUPERVISED BY_____
CHECKED BY____

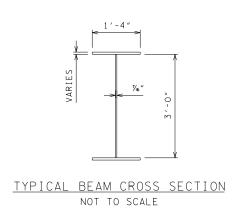
STATE PROJ. NO. 33005-1185-44 PROJECT NO. YEAR IM/NH-75-1(131) 2018 REVISIONS BRIEF DESCRIPTION



TYPICAL SECTION AT ABUTMENT NOT TO SCALE

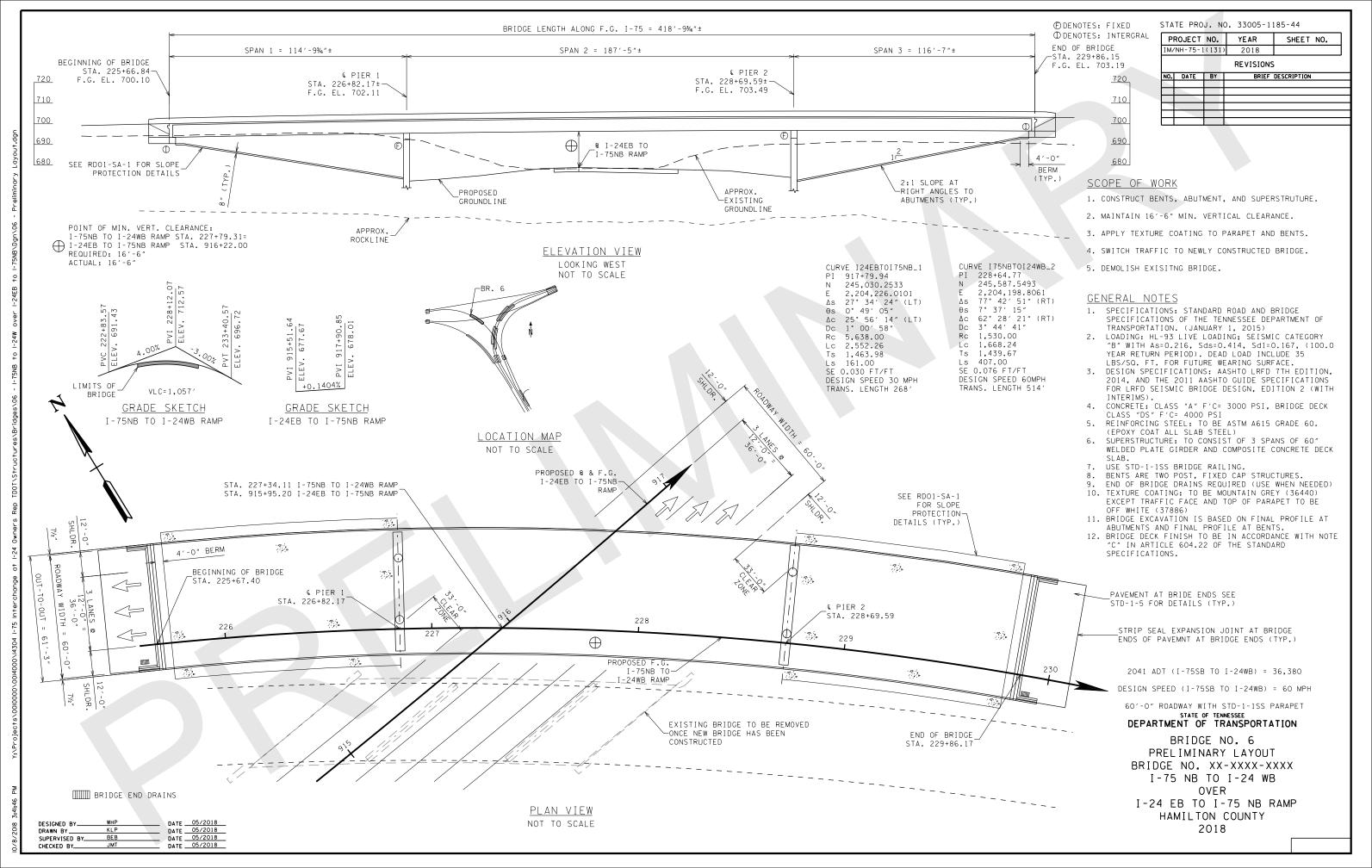


NOT TO SCALE



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5B PRELIMINARY SUPERSTRUCTURE BRIDGE NO. 33100240063 SPRING CREEK ROAD OVER I-24 EB HAMILTON COUNTY 2018



10/8/2018 3:41:47 PM Y

 DESIGNED BY
 WHP
 DATE
 05/2018

 DRAWN BY
 KLP
 DATE
 05/2018

 SUPERVISED BY
 BEB
 DATE
 05/2018

 CHECKED BY
 JMT
 DATE
 05/2018

7/4"

12'-0"

3 LANES ® 12'-0" = 36'-0"

SHOULDER

PROPOSED

F.G. 1-75NB
TO 1-24WB

O_0006 FI/FT

WELDED PLATE GIRDER
66" WEB (TYP.)

6 SPACES ® 9'-0" = 54'-0"

TYPICAL SECTION AT BENT LOOKING FORWARD NOT TO SCALE

OUT-TO-OUT = 61'-3"

PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131) 2018

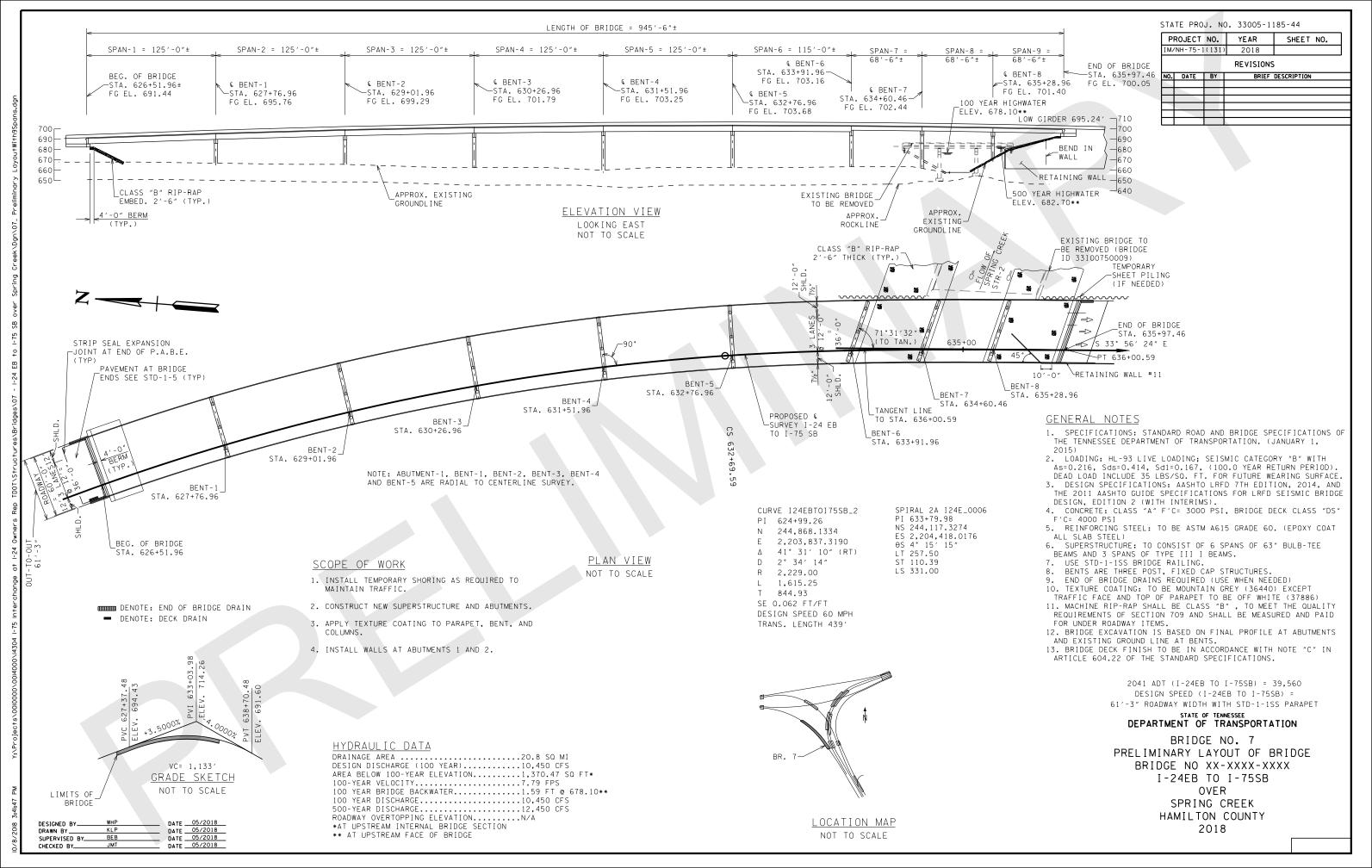
REVISIONS

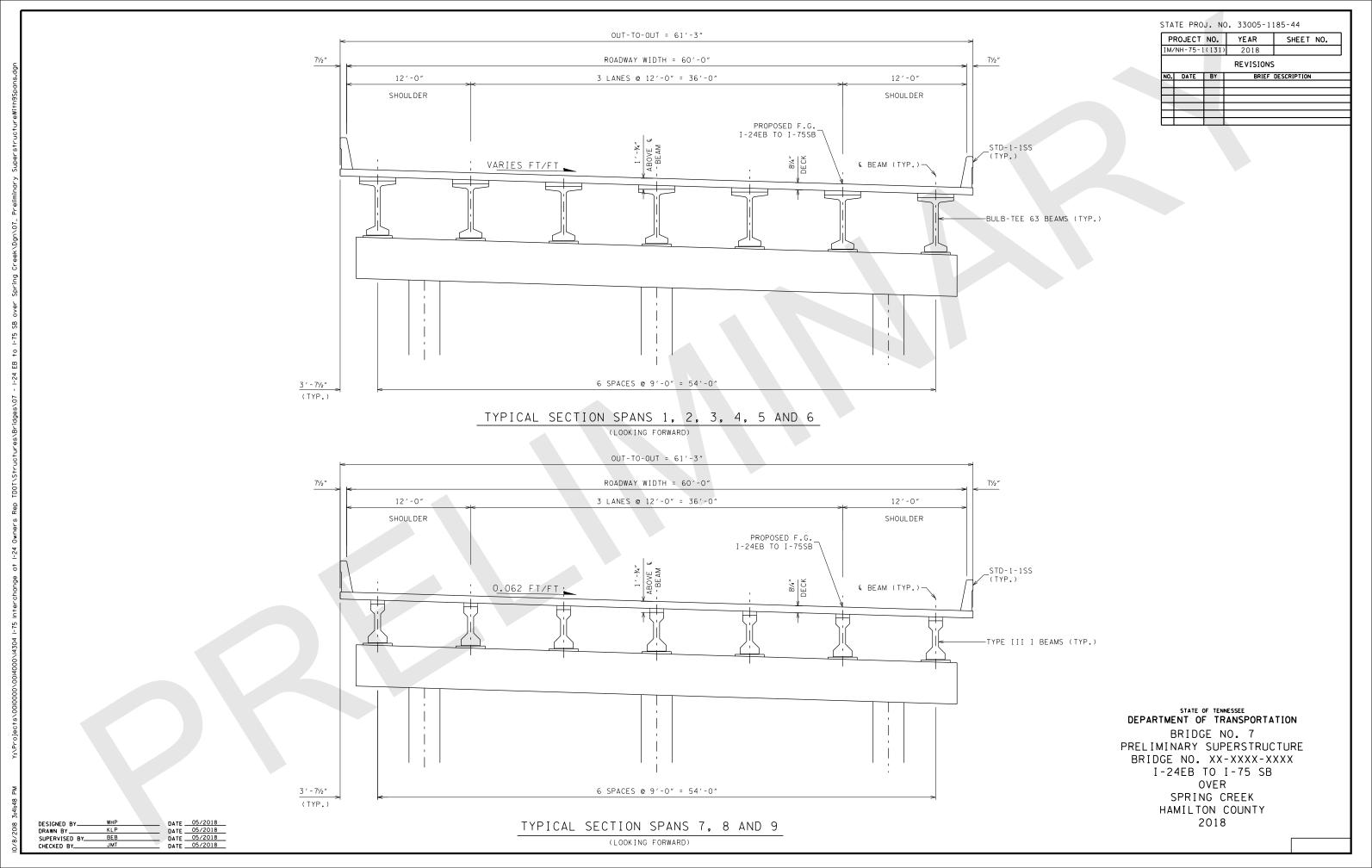
STATE PROJ. NO. 33005-1185-44

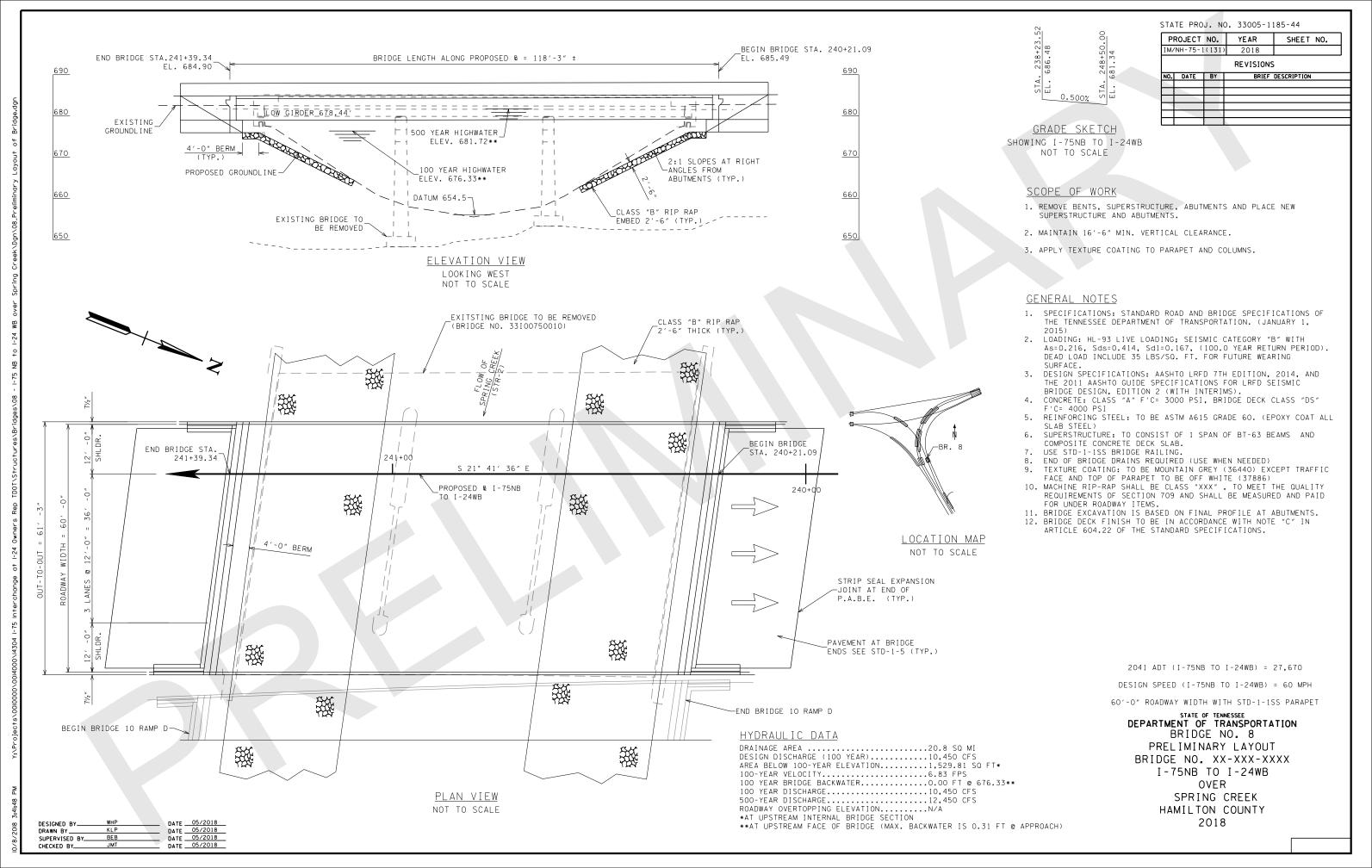
NO.	DATE	BY	BRIEF DESCRIPTION
/			
1			

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 6
PRELIMINARY SUPERSTRUCTURE
BRIDGE NO. XX-XXXX-XXXX
I-75 NB TO I-24 WB
OVER
I-24 EB TO I-75 SB
HAMILTON COUNTY
2018







07872018 3:41:49 PM

 DESIGNED BY
 WHP
 DATE
 05/2018

 DRAWN BY
 KLP
 DATE
 05/2018

 SUPERVISED BY
 BEB
 DATE
 05/2018

 CHECKED BY
 JMT
 DATE
 05/2018

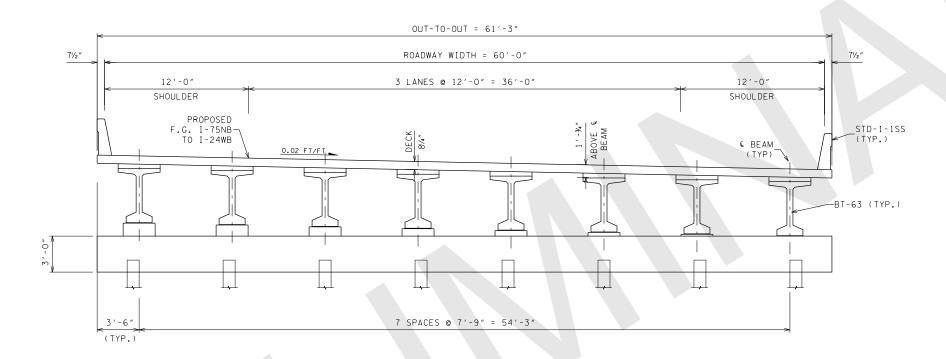
STATE PROJ. NO. 33005-1185-44

PROJECT NO. YEAR SHEET NO.

IM/NH-75-1(131) 2018

REVISIONS

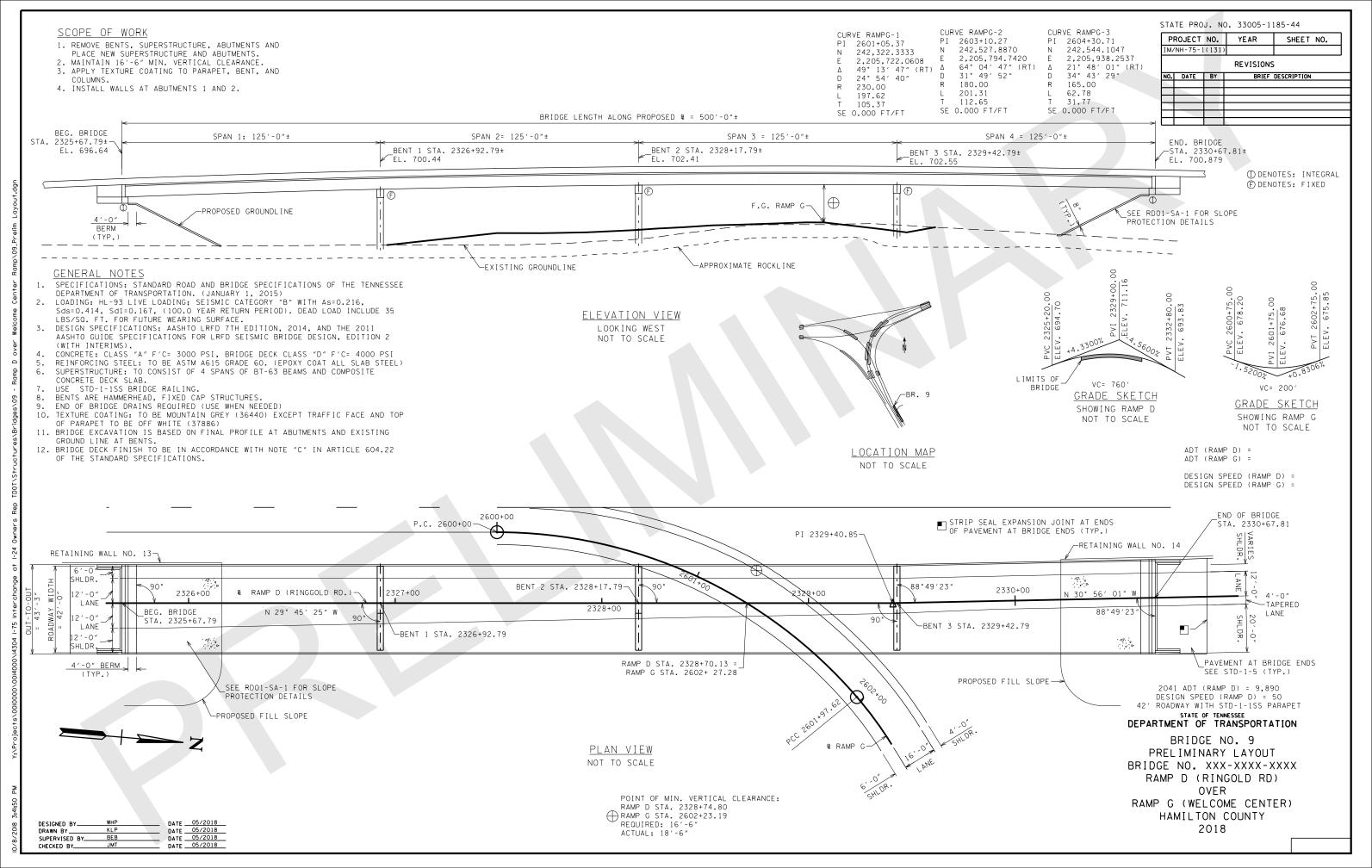
NO. DATE BY BRIEF DESCRIPTION



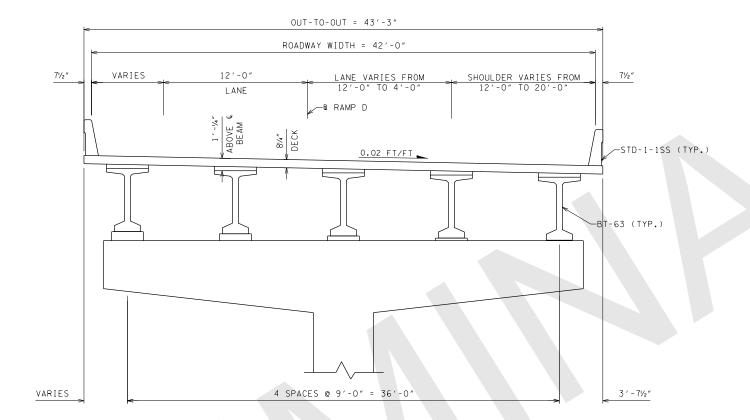
TYPICAL SECTION AT ABUTMENT LOOKING FORWARD NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 8
PRELIMINARY SUPERSTRUCTRE
BRIDGE NO. XX-XXXX-XXXX
I-75NB TO I-24WB
OVER
CHICKAMAUGA CREEK
HAMILTON COUNTY
2018



DESIGNED BY WHP DATE 05/	2018
DRAWN BY KLP DATE 05/	2018
SUPERVISED BY BEB DATE 05/	2018
CHECKED BY JMT DATE 05/	2018



TYPICAL SECTION AT BENT LOOKING FORWARD NOT TO SCALE STATE PROJ. NO. 33005-1185-44

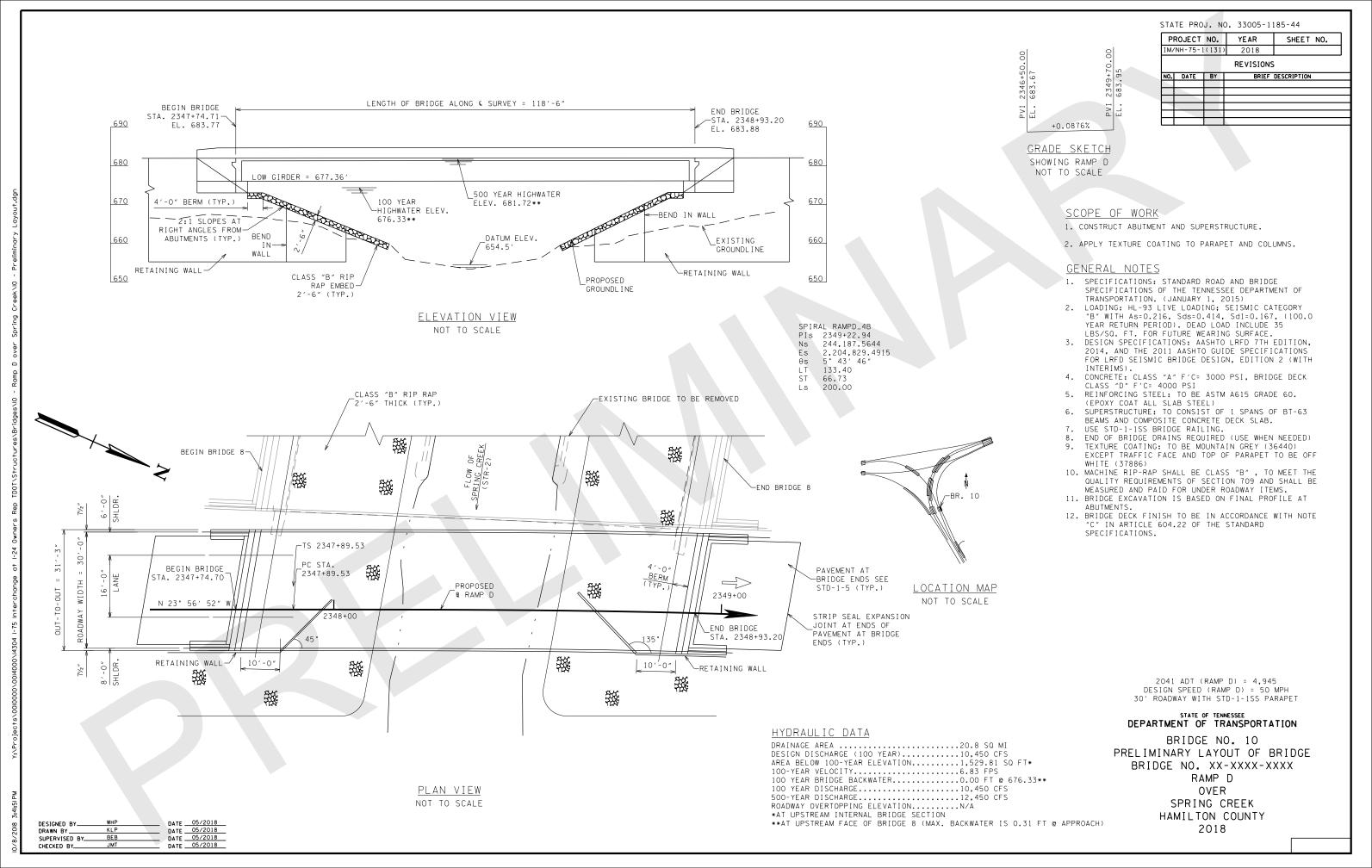
PROJECT NO. YEAR SHEET NO. IM/NH-75-1(131) 2018

REVISIONS

DATE BY BRIEF DESCRIPTION

DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 9
PRELIMINARY SUPERSTRUCTURE
BRIDGE NO. XX-XXXX-XXXX
RAMP D (RINGGOLD RD)
OVER
RAMP G (WELCOME CENTER)
HAMILTON COUNTY
2018



ROADWAY WIDTH = 30'-0"

16'-0"

SHOULDER

LANE

4'-0"

PROPOSED F.G.

RAMP D

(TYP.)

BT-63

(TYP.)

OUT-TO-OUT = 31'-3"

TYPICAL SECTION AT BENT

LOOKING FORWARD NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STATE PROJ. NO. 33005-1185-44

REVISIONS

BRIEF DESCRIPTION

PROJECT NO. YEAR
IM/NH-75-1(131)

BRIDGE NO. 10
PRELIMINARY SUPERSTRUCTURE
BRIDGE NO. XX-XXXX-XXXX
RAMP D
OVER
SPRING CREEK
HAMILTON COUNTY
2018