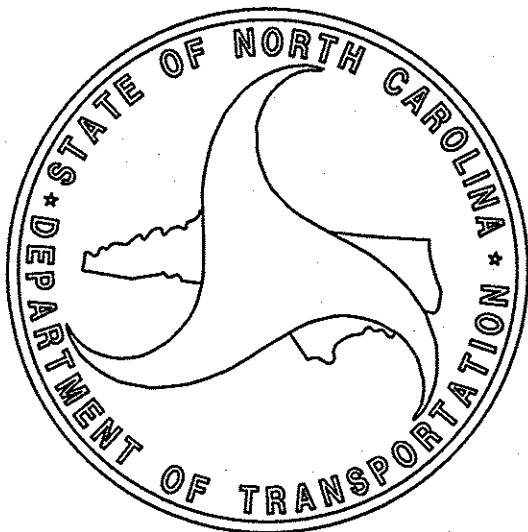


TIP PROJECT: BP-5300U

CONTRACT: D000113



DESIGN DATA

BRIDGE #50
ADT 2009 = 1300

BRIDGE #68
ADT 2009 = 2000

BRIDGE NO. 191
ADT 2009 = 4000

PROJECT LENGTH

BRIDGE #50
LENGTH STRUCTURE PROJECT = .064 MILE

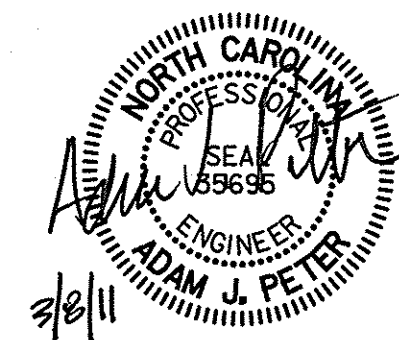
BRIDGE #68
LENGTH STRUCTURE PROJECT = .084 MILE

BRIDGE NO. 191
LENGTH STRUCTURE PROJECT = .089 MILE

Prepared For:
DIVISION OF BRIDGE MANAGEMENT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

LETTING DATE:
APRIL 1, 2011

ENGINEER



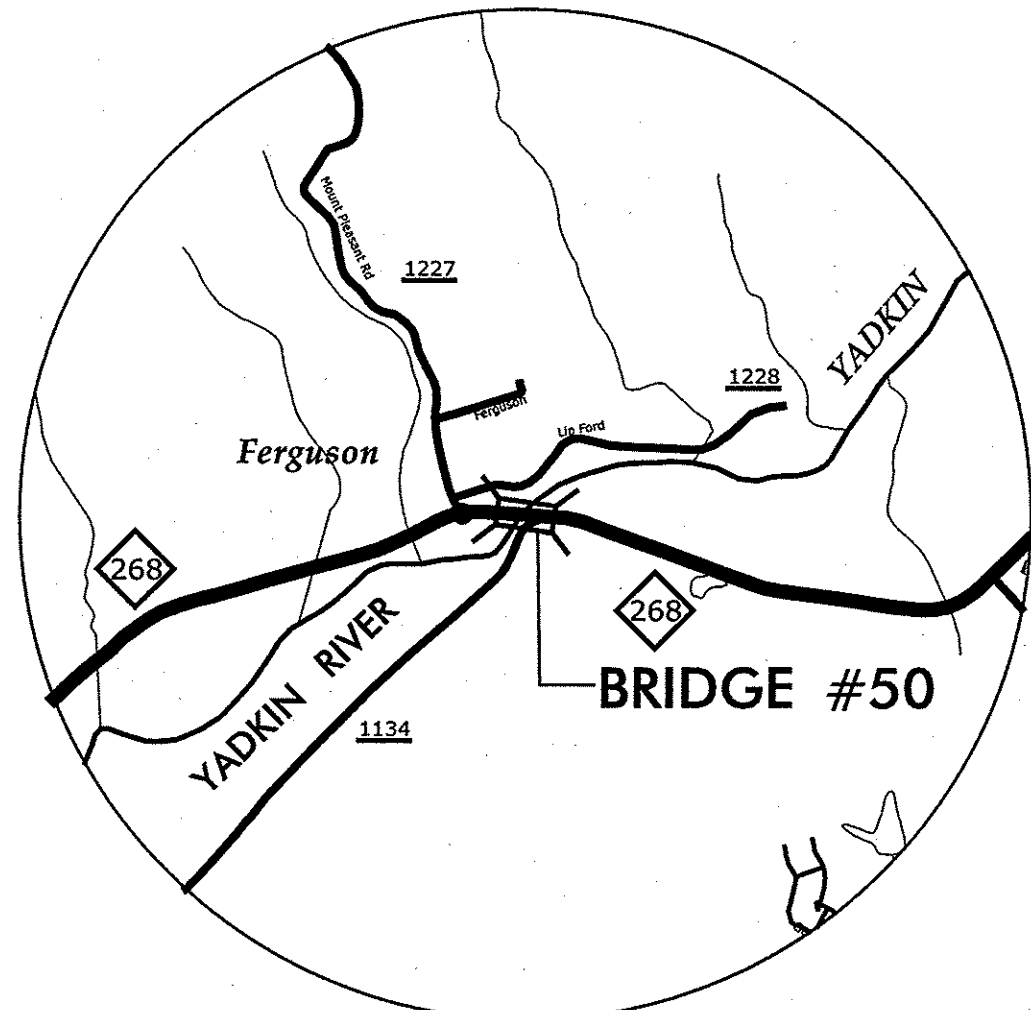
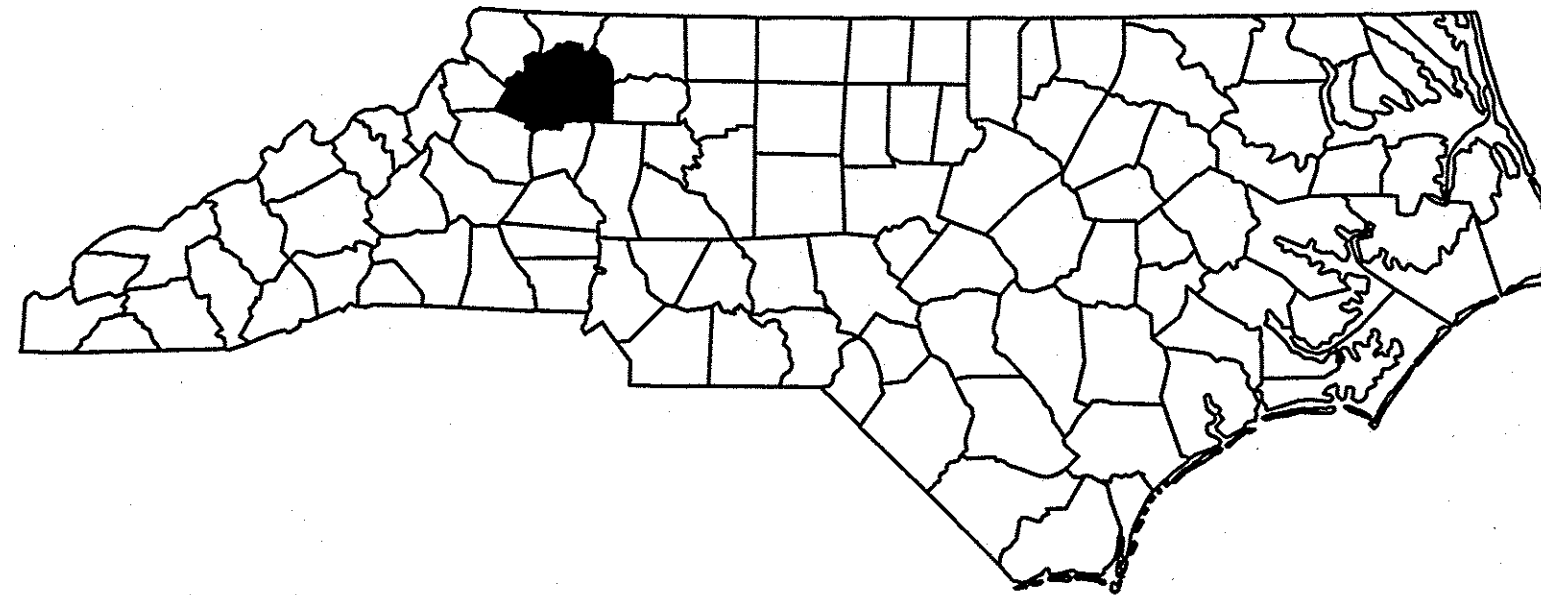
ADAM J. PETER, P.E.
DESIGN ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

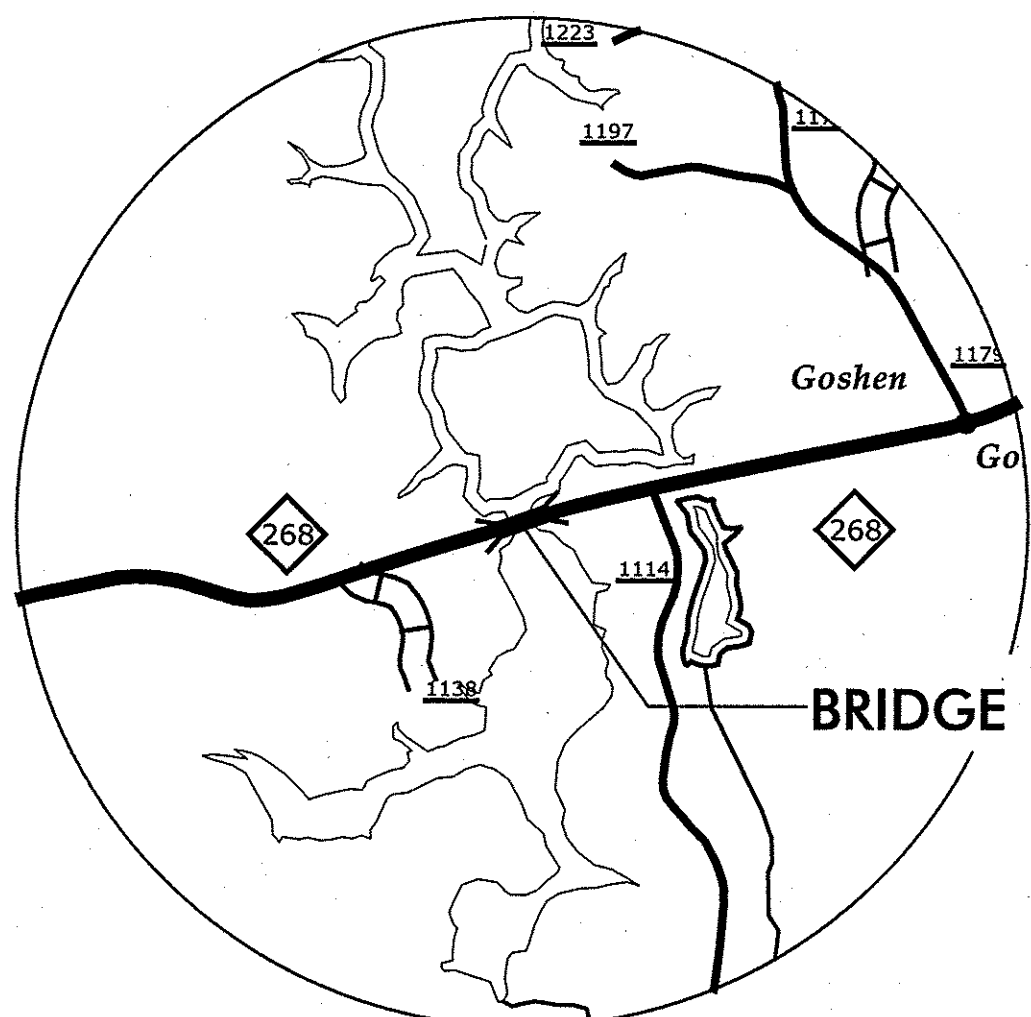
WILKES COUNTY

**LOCATION: BRIDGE #50 ON NC HWY 268 OVER YADKIN RIVER
BRIDGE #68 ON NC HWY 268 OVER WARRIOR CREEK AND
BRIDGE #191 ON S.R. 2327 OVER YADKIN RIVER**

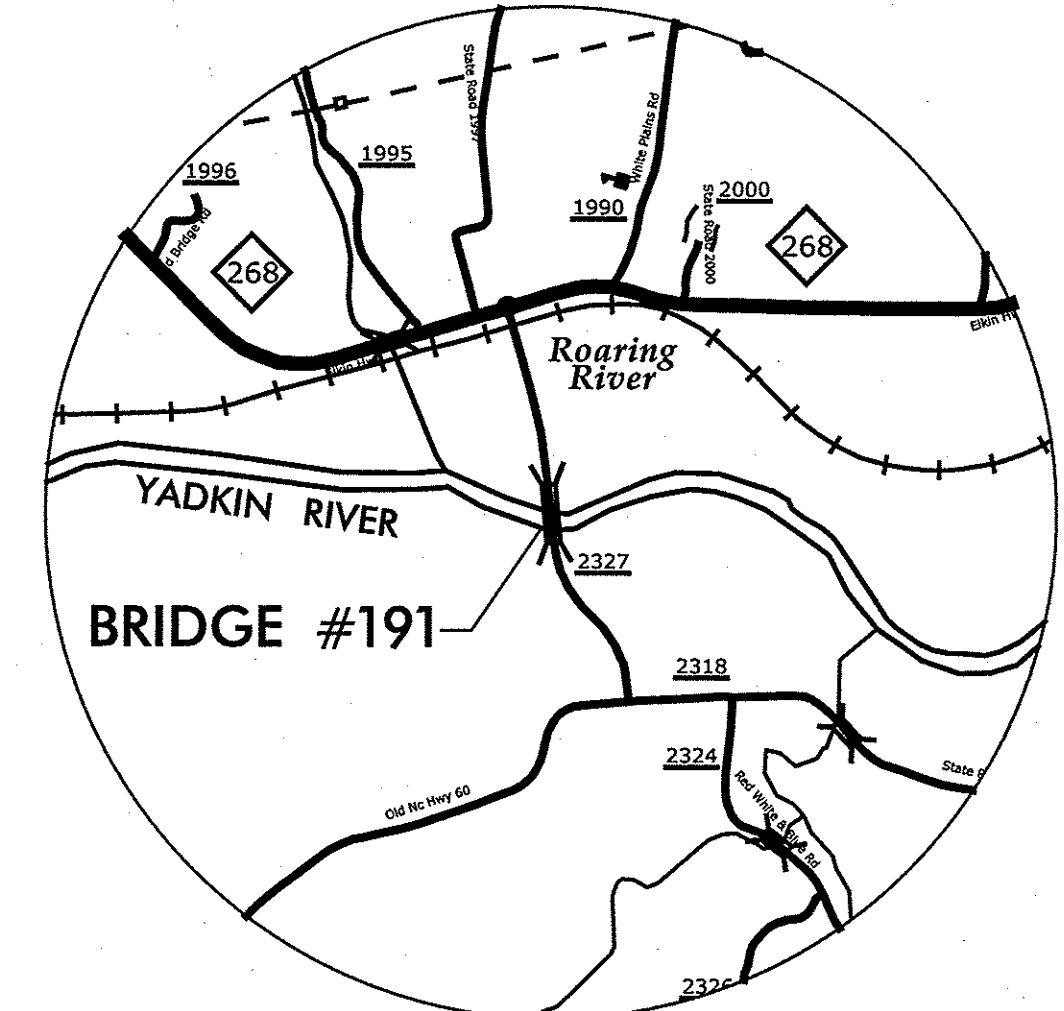
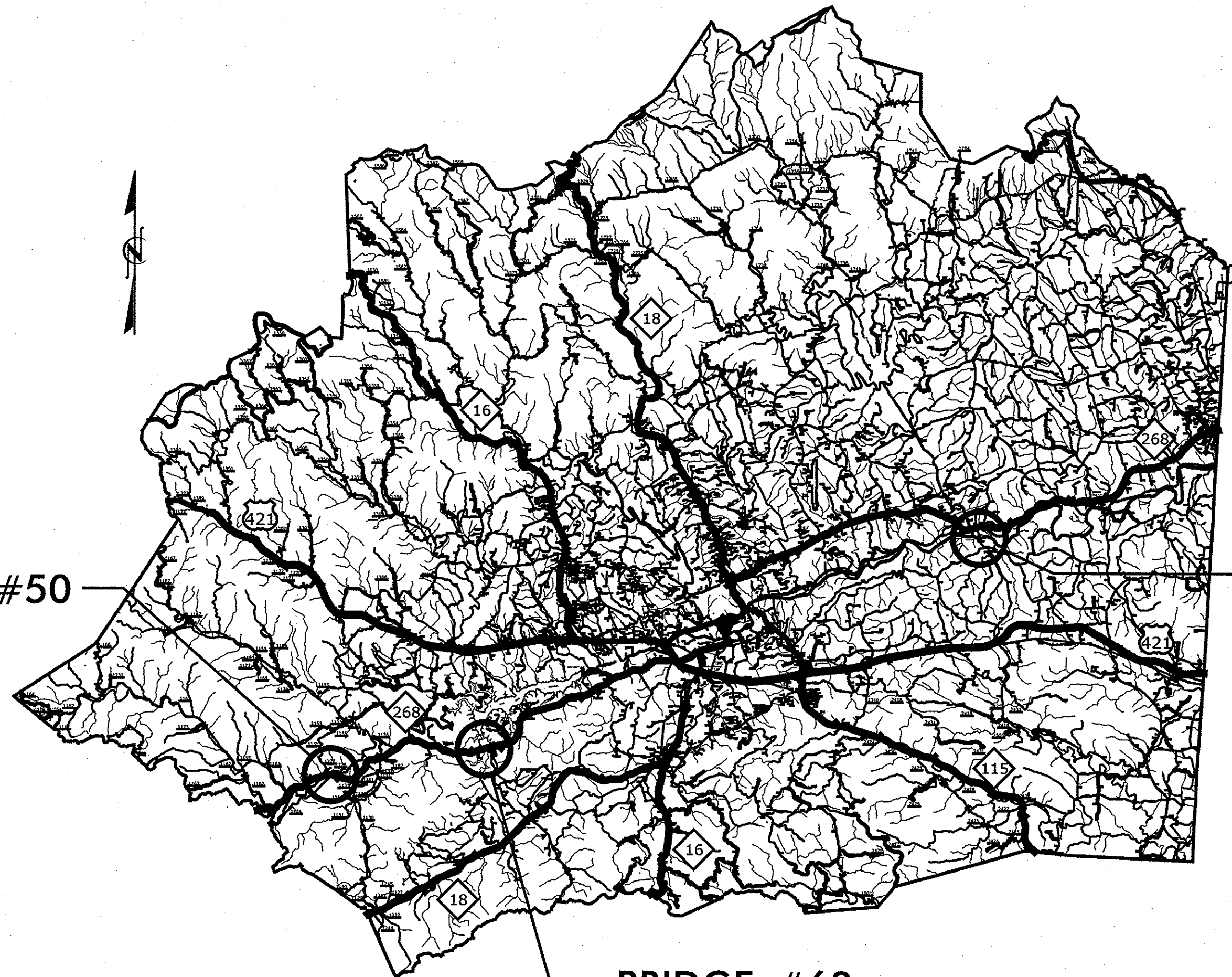
TYPE OF WORK: HYDRODEMOLITION & LMC OVERLAY



VICINITY MAP - BRIDGE #50



VICINITY MAP - BRIDGE #68



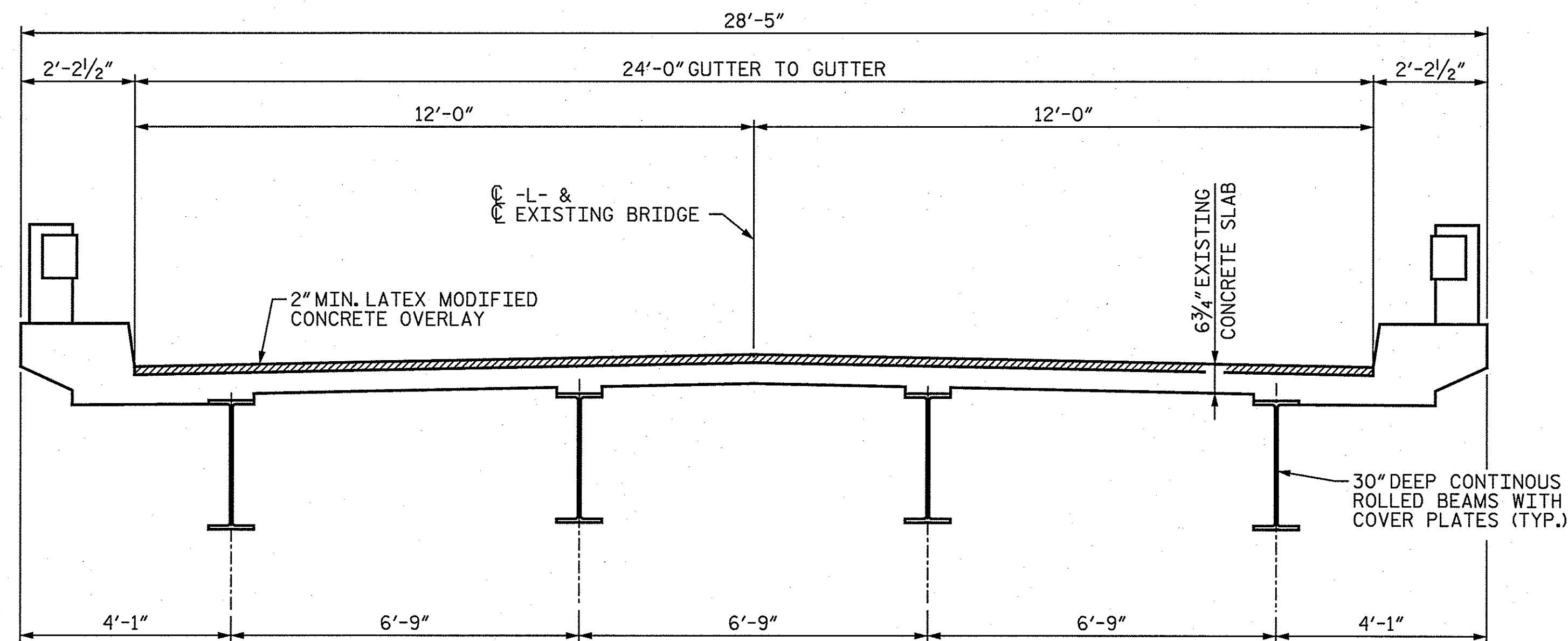
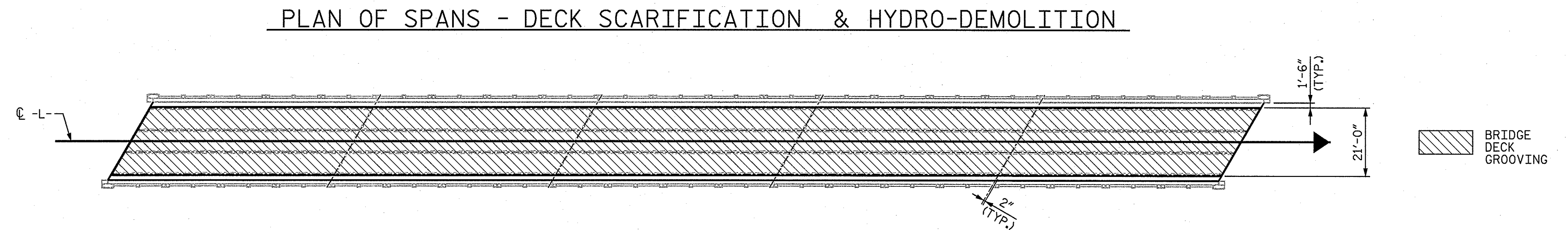
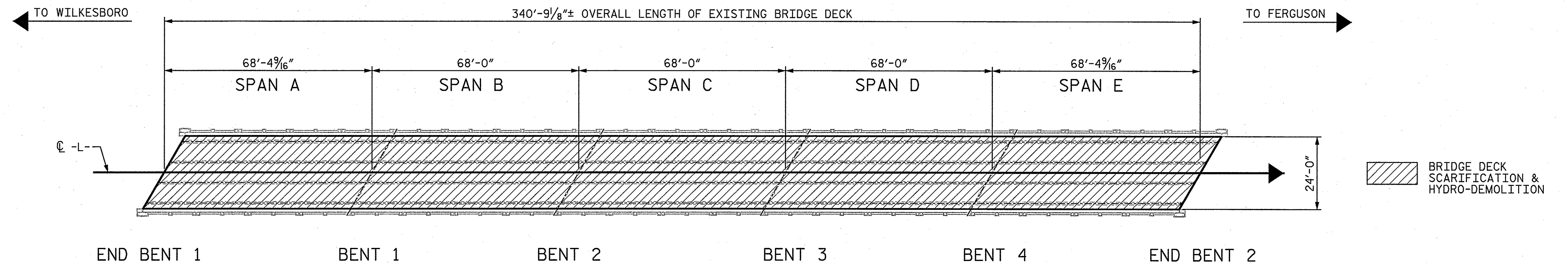
VICINITY MAP - BRIDGE #191

TABLE OF CONTENTS

DWG.	DESCRIPTION
1	TITLE SHEET
S1-S13	STRUCTURE PLANS
TCP1-TPC6	TRAFFIC CONTROL PLANS



STV/Ralph Whitehead Associates, Inc.
1000 West Morehead St., Ste. 200
Charlotte, NC 28208
NC LICENSE NO. F-0991



TYPICAL SECTION

NOTES:

LATEX MODIFIED CONCRETE OVERLAY SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH. SEE SPECIAL PROVISIONS.

FOR HYDRO-DEMOLITION OF BRIDGE DECK, SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS. SEE SPECIAL PROVISIONS.

THE BOUNDARY AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE CONTAINMENT FOR UNEXPECTED BLOW-THROUGH OF THE DECK. SEE DETAIL ON SHEET 4 OF 4 AND SPECIAL PROVISIONS.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.

CONTRACTOR'S MEANS AND METHODS SHALL MINIMIZE DAMAGE TO EXISTING APPROACH PAVEMENT. AREAS OF APPROACH PAVEMENT DAMAGED BY CONSTACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. ANY COST ASSOCIATED WITH REPAIR OF APPROACH PAVEMENT SHALL BE CONSIDERED INCIDENTAL AND NO SEPERATE MEASUREMENT AND PAYMENT WILL BE MADE.

PROJECT NO. **BP-5300U**
WILKES COUNTY
 STATION: **471+29.00 -L-**

SHEET 1 OF 4

TOTAL BILL OF MATERIAL									
DECK SCARIFICATION	*CLASS I SURFACE PREPARATION	*CLASS II SURFACE PREPARATION	*CLASS III SURFACE PREPARATION	*CLASS AA CONCRETE	HYDRO-DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	EVAZOTE JOINT SEAL	GROOVING BRIDGE FLOORS
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	LUMP SUM	SQ. FT.
918	667	212	39	6	918	60	918	LUMP SUM	7121

* QUANTITIES FOR INFORMATION ONLY.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN OF SPANS TYPICAL SECTION BRIDGE #50 ON N.C. HWY 268 OVER YADKIN RIVER					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-1					TOTAL SHEETS 13

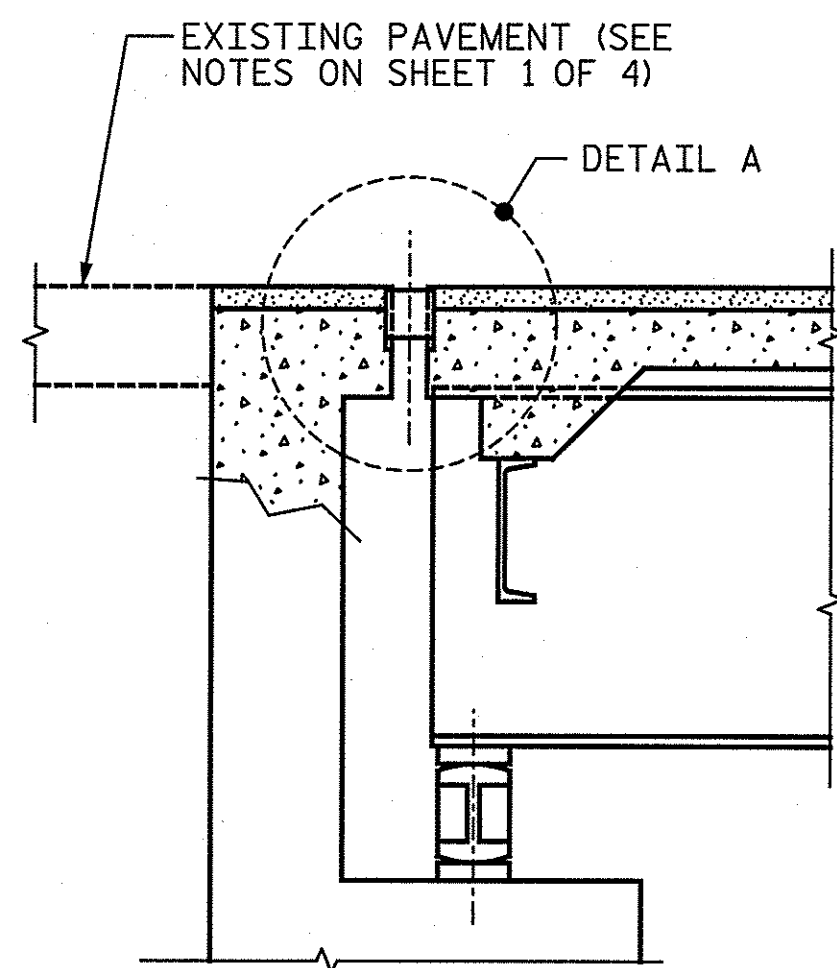
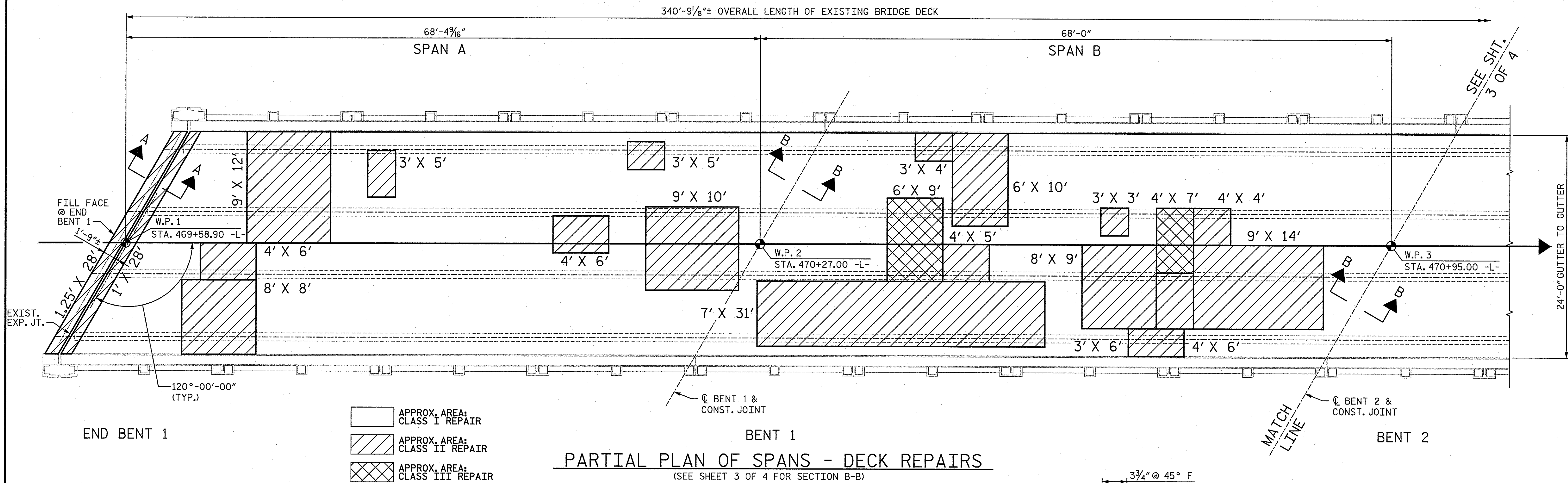
STV/ Ralph Whitehead Associates, Inc.
 1000 West Morehead St., Ste. 200
 Charlotte, NC 28208
 N.C. License No. F-0991

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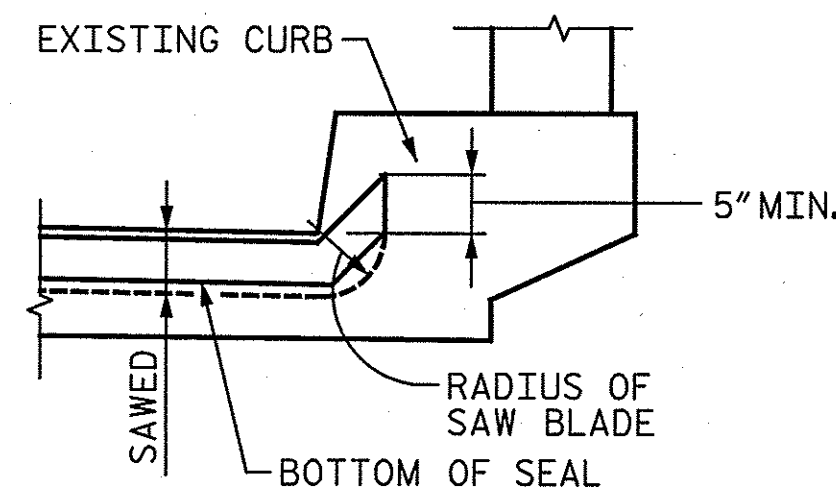
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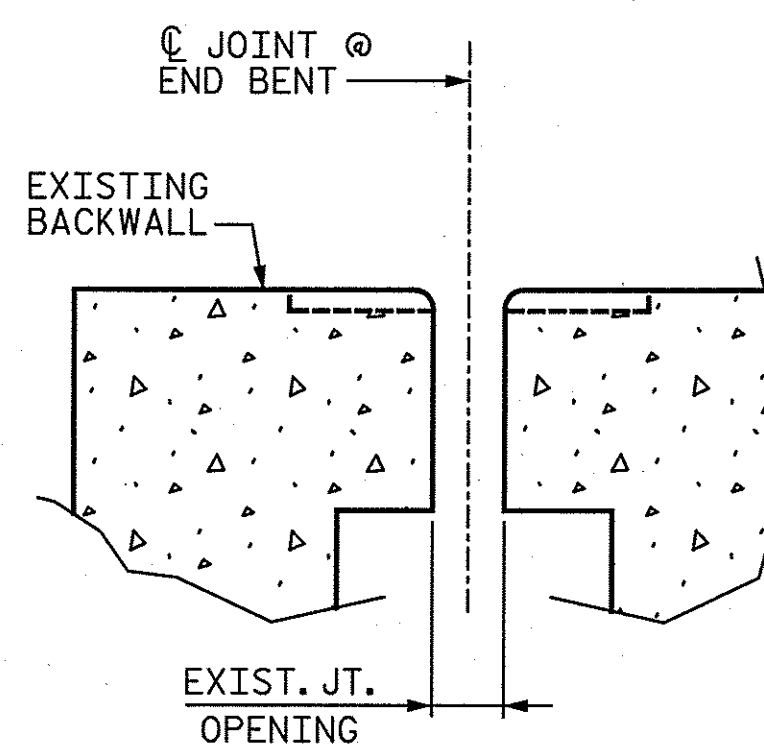
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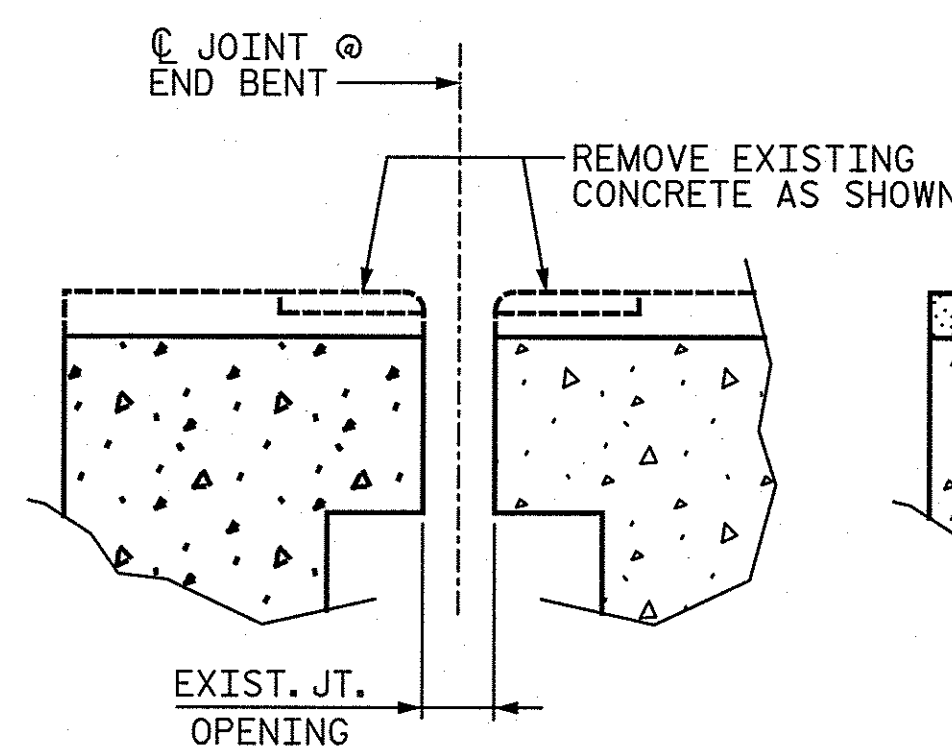
SECTION A-A
(PROPOSED JOINT @ END BENT 1 SHOWN, END BENT 2 SIMILAR)



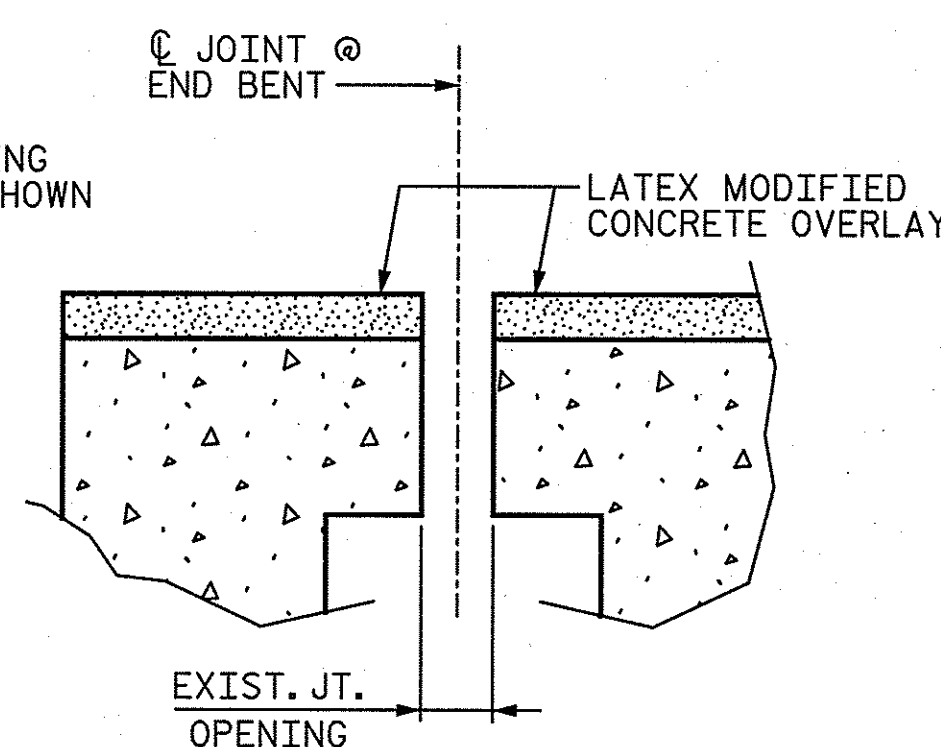
SECTION C-C



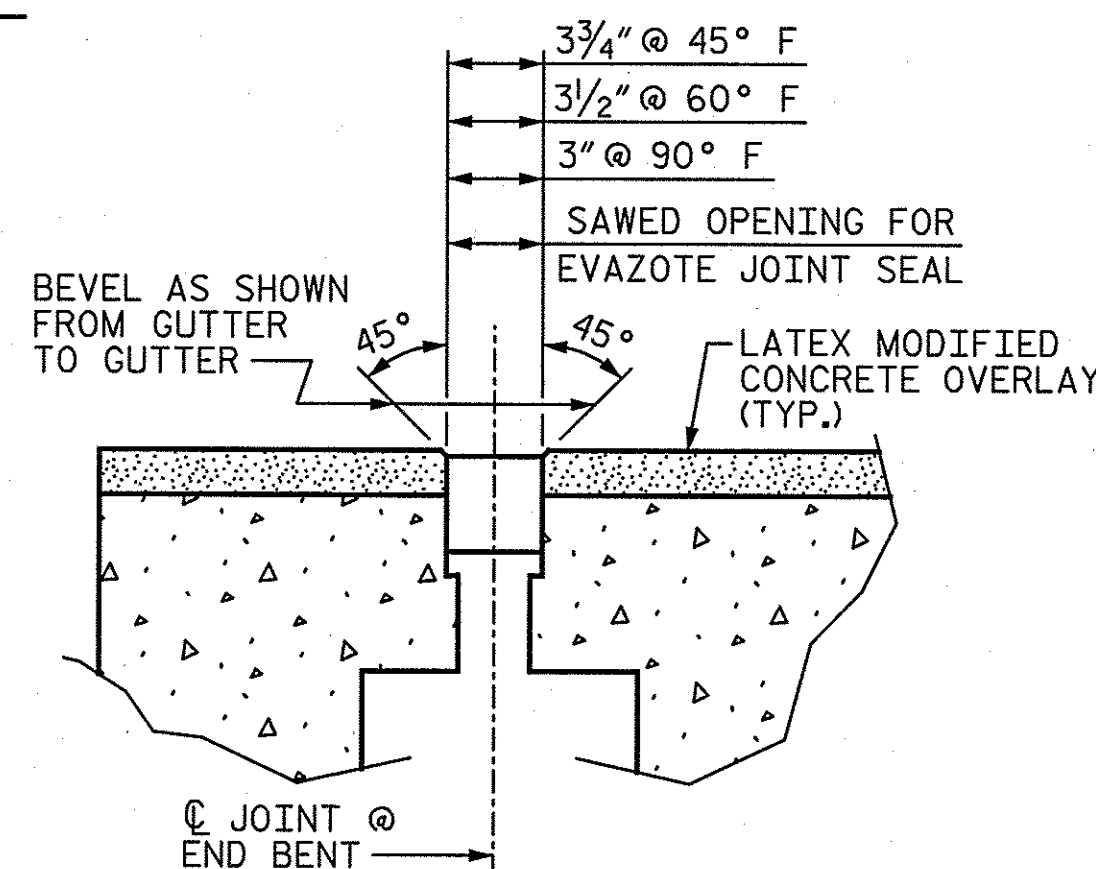
DETAIL OF EXISTING EXPANSION JOINT



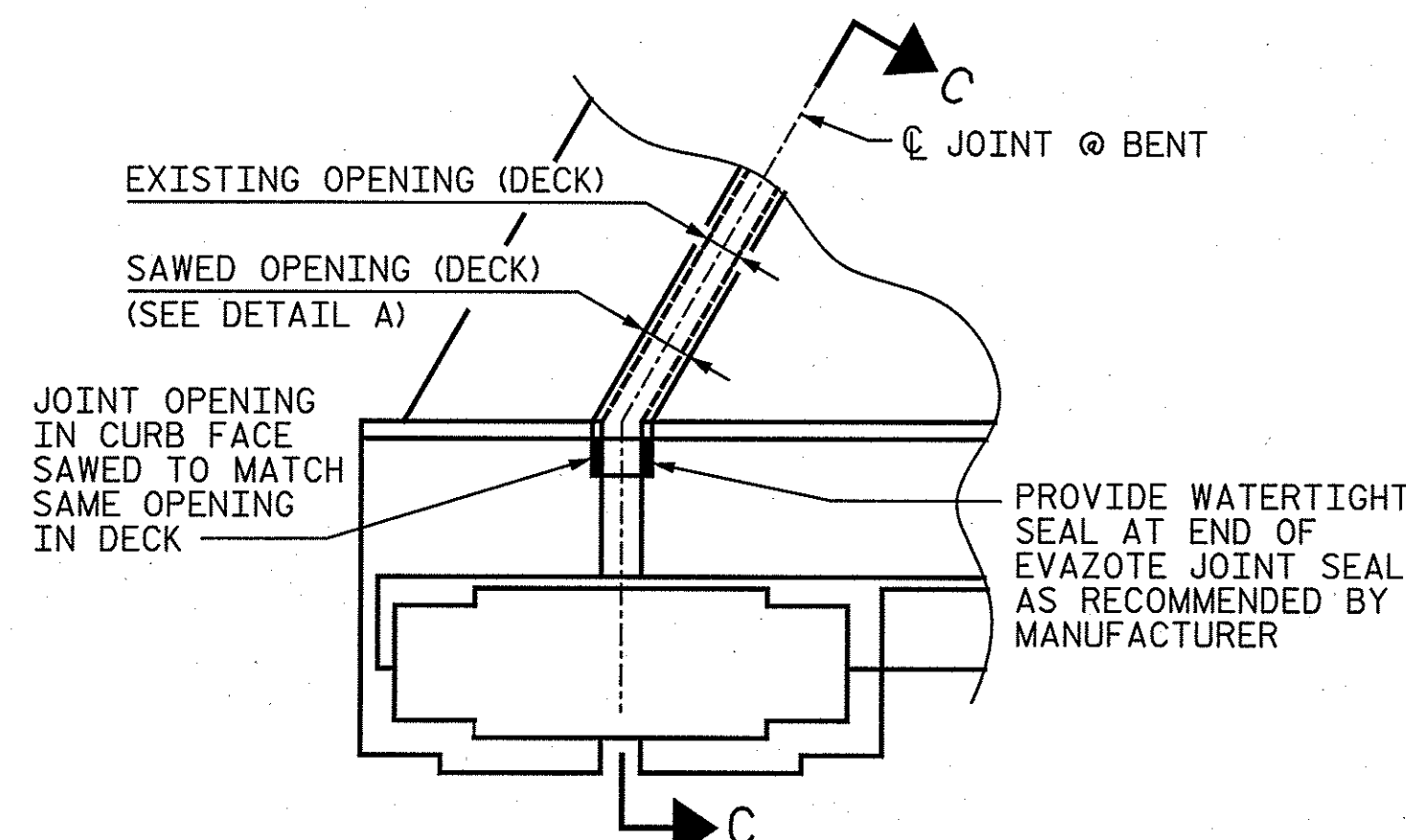
MINIMUM CONCRETE REMOVAL DETAIL @ EXPANSION JOINT



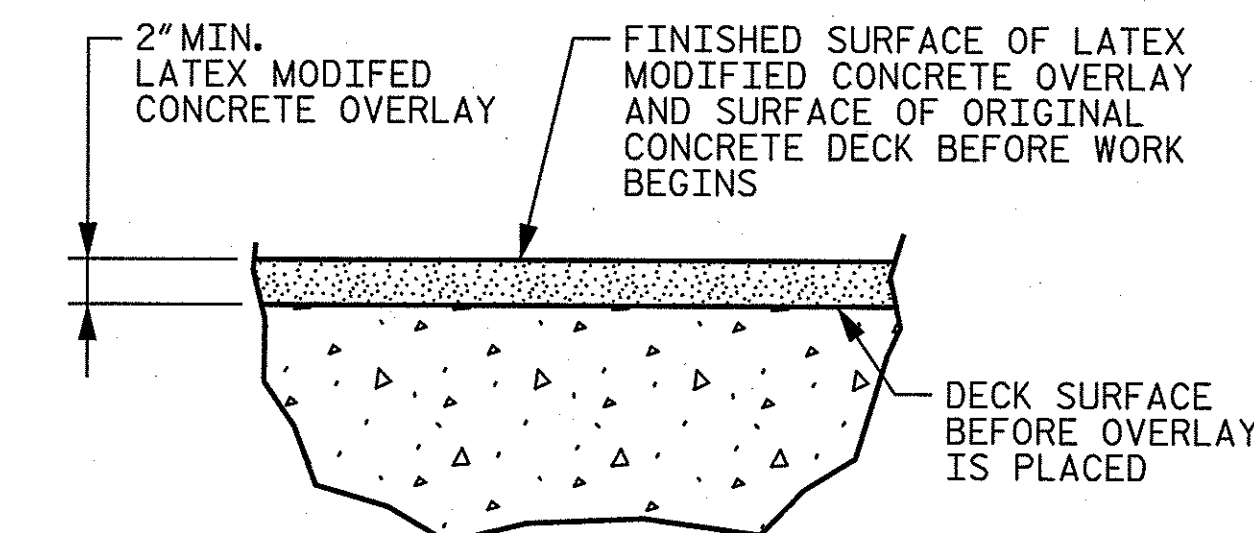
PROPOSED EVAZOTE JOINT SEAL (DETAIL BEFORE SAWING)



PROPOSED EVAZOTE JOINT SEAL (DETAIL AFTER SAWING)



PLAN OF JOINT SEAL AT CURB



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

NOTES:

- FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.
- THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.
- THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 4 1/2".
- THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.
- EVAZOTE JOINT OPENINGS SHALL BE CONFIRMED IN THE FIELD. CONTRACTOR SHALL MAKE ADJUSTMENTS TO EVAZOTE JOINT SEALS, AS NECESSARY, TO MEET EXISTING CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS. ANY CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANY COST ASSOCIATED WITH THESE ADJUSTMENTS ARE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

FOR ADDITIONAL NOTES SEE SHEET 1 OF 4.

PROJECT NO. BP-5300U

WILKES COUNTY

STATION: 471+29.00 -L-

SHEET 2 OF 4

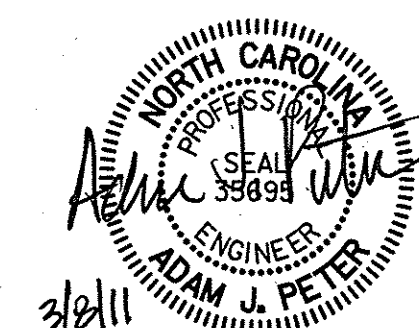
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**PLAN OF SPANS
DECK REPAIR
SPANS A & B**

DECK REHAB BRIDGE NO. 050

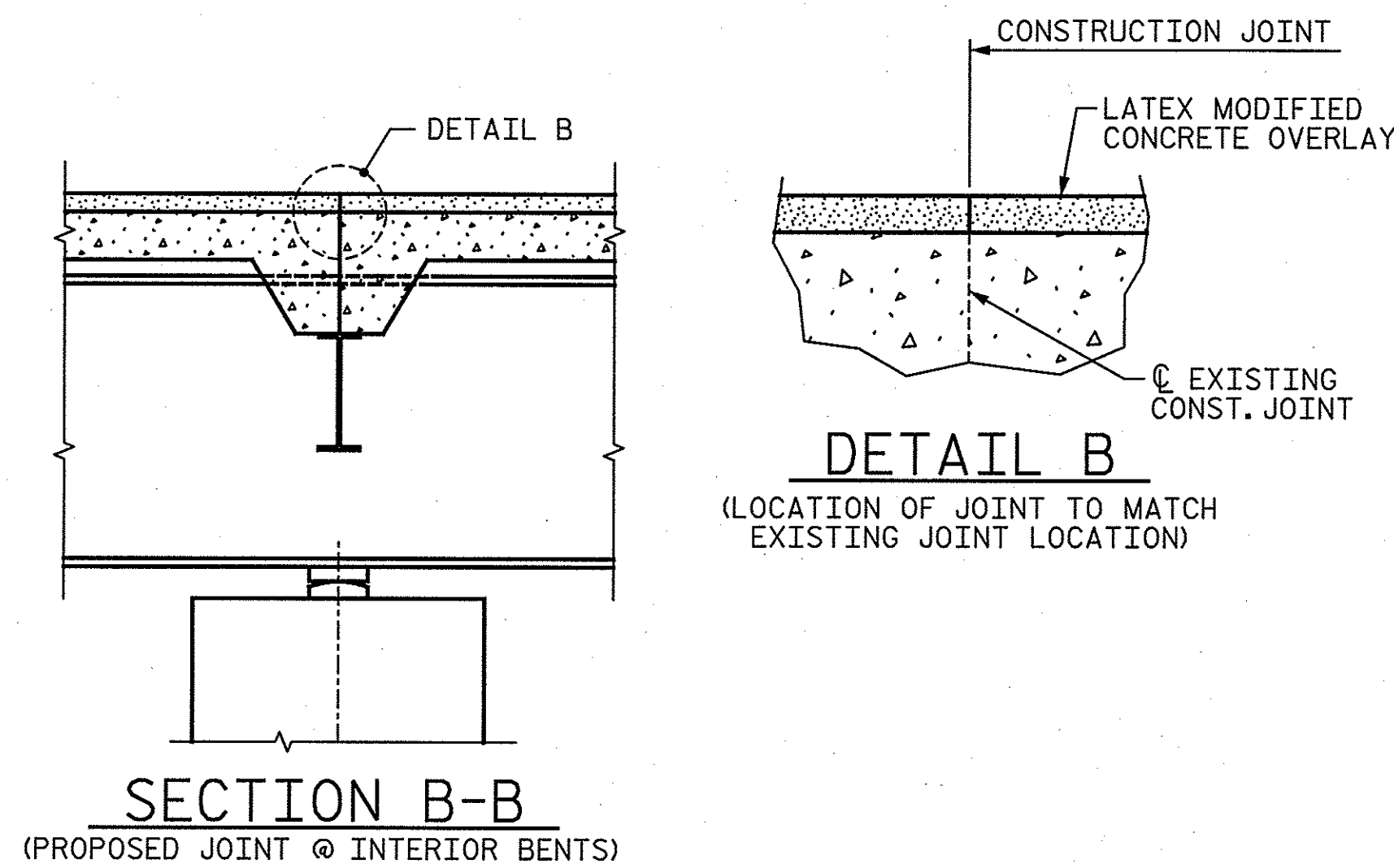
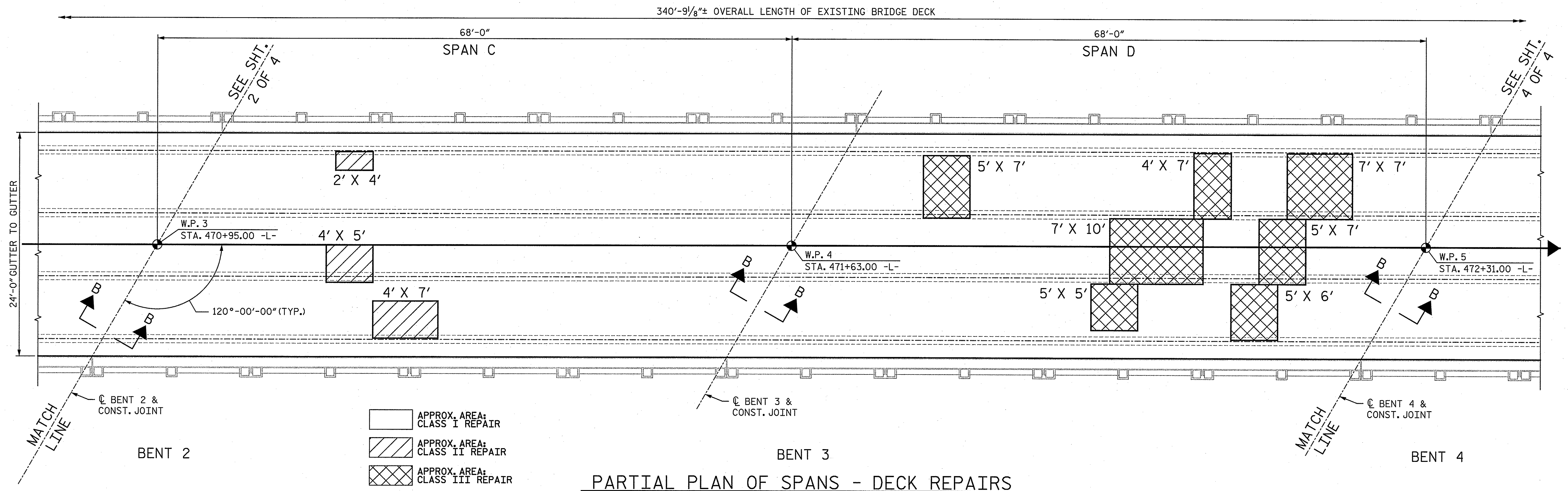
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NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-2
2			4			
TOTAL SHEETS						13

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1000 West Morehead St., Ste. 200
Charlotte, NC 28208
N.C. License No. F-0991



...Bridge 050\BRIDGE050.dgn

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NOTE:
SEE NOTES ON SHEET 1 OF 4.

PROJECT NO. BP-5300U
WILKES COUNTY
STATION: 471+29.00 -L-

SHEET 3 OF 4

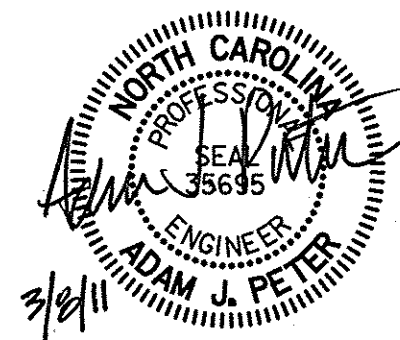
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**PLAN OF SPANS
DECK REPAIR
SPANS C & D**

DECK REHAB BRIDGE NO. 050

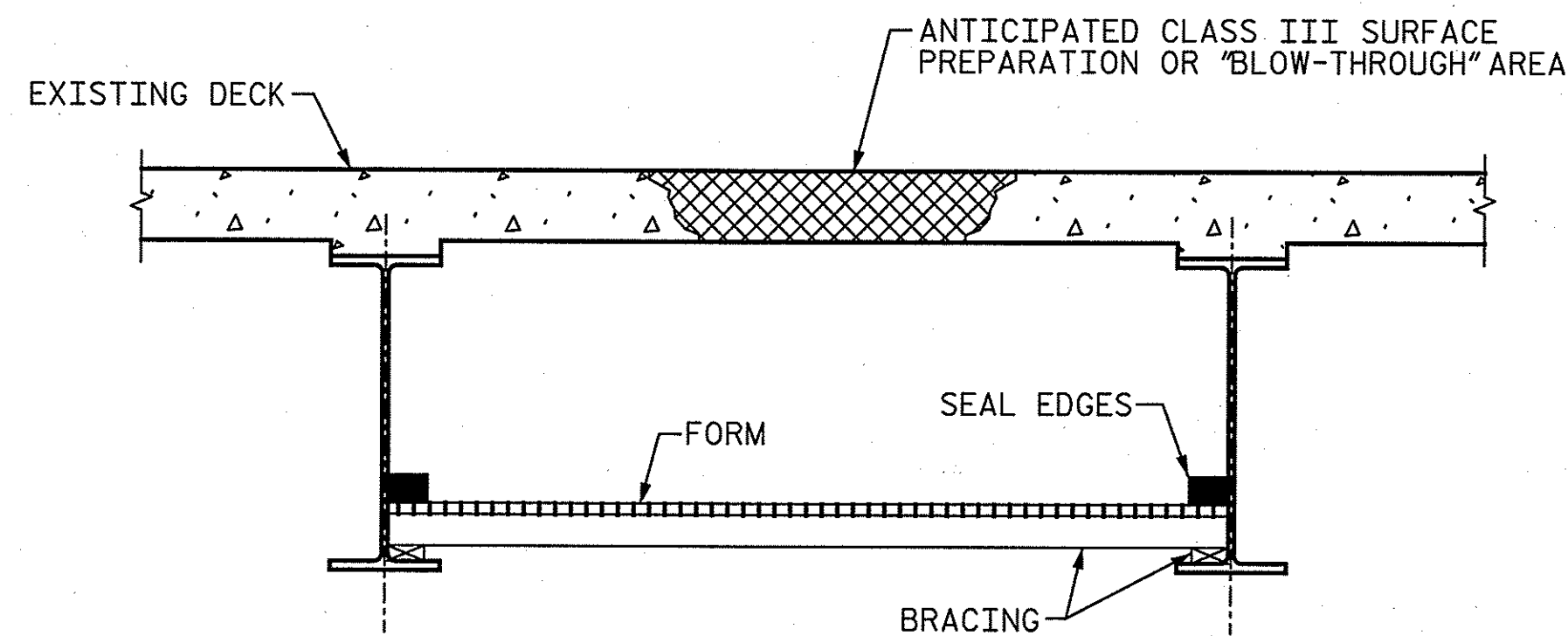
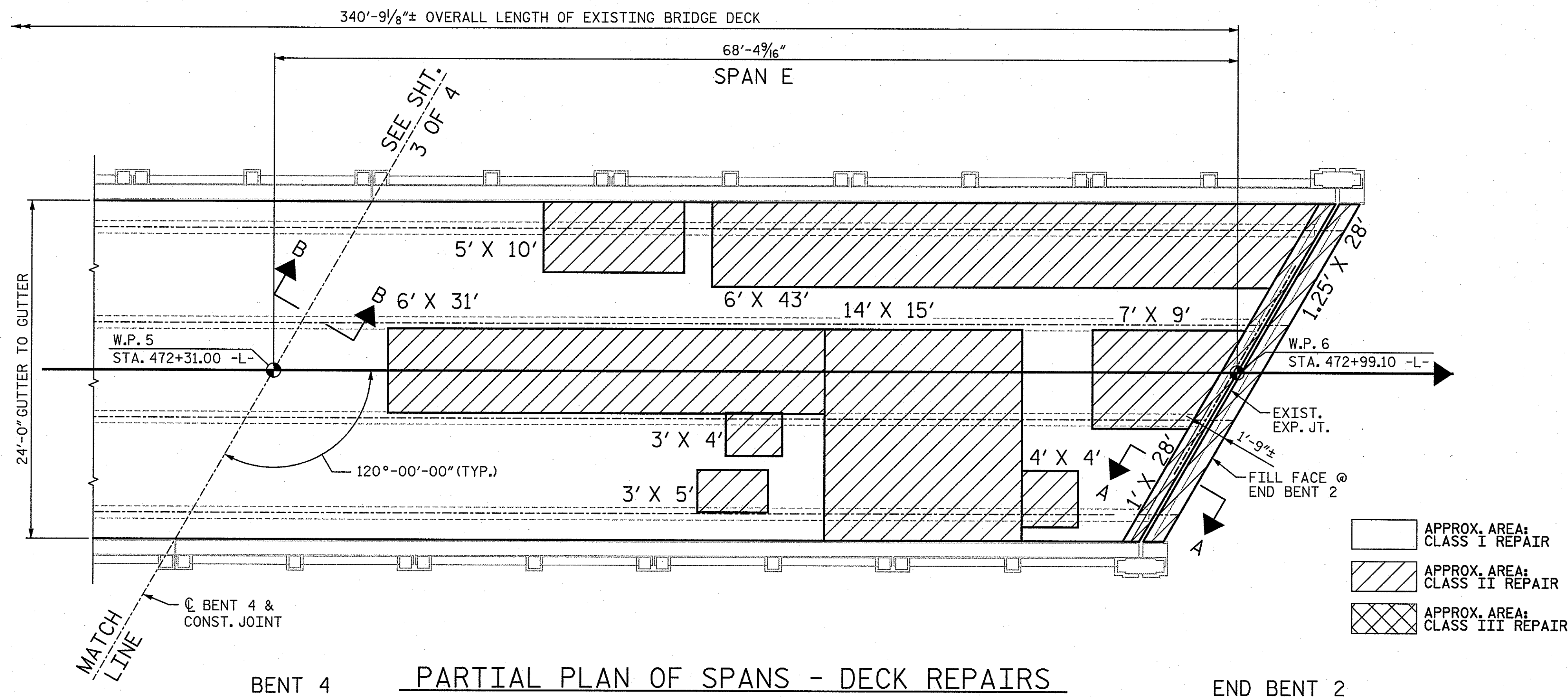
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CHECKED BY : AJP DATE : 2-11

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Charlotte, NC 28208
N.C. License No. F-0991



REVISIONS						SHEET NO. S-3
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 13
2			4			

...Bridge 050\BRIDGE050.dgn



A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.

NOTE:

SEE NOTES ON SHEET 1 OF 4.

PROJECT NO. **BP-5300U**

WILKES COUNTY

STATION: **471+29.00 -L-**

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPAN E

DECK REHAB BRIDGE NO. 050

REVISIONS						SHEET NO. S-4
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 13
2			4			

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Charlotte, NC 28208
N.C. License No. F-0991



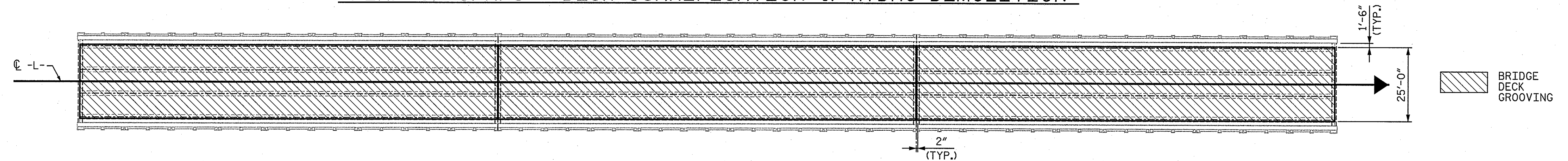
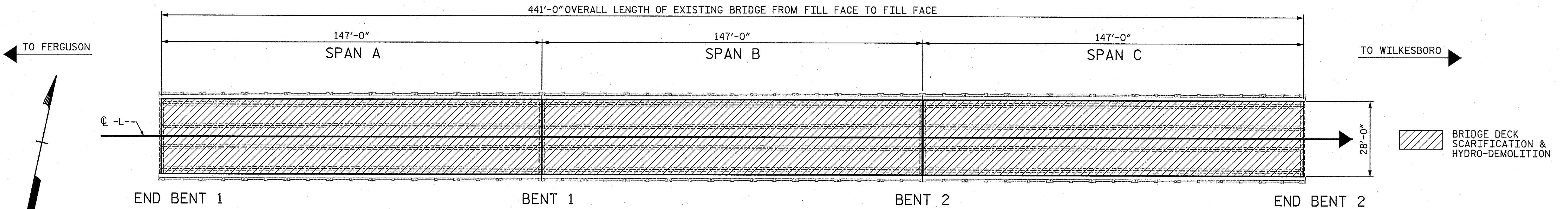
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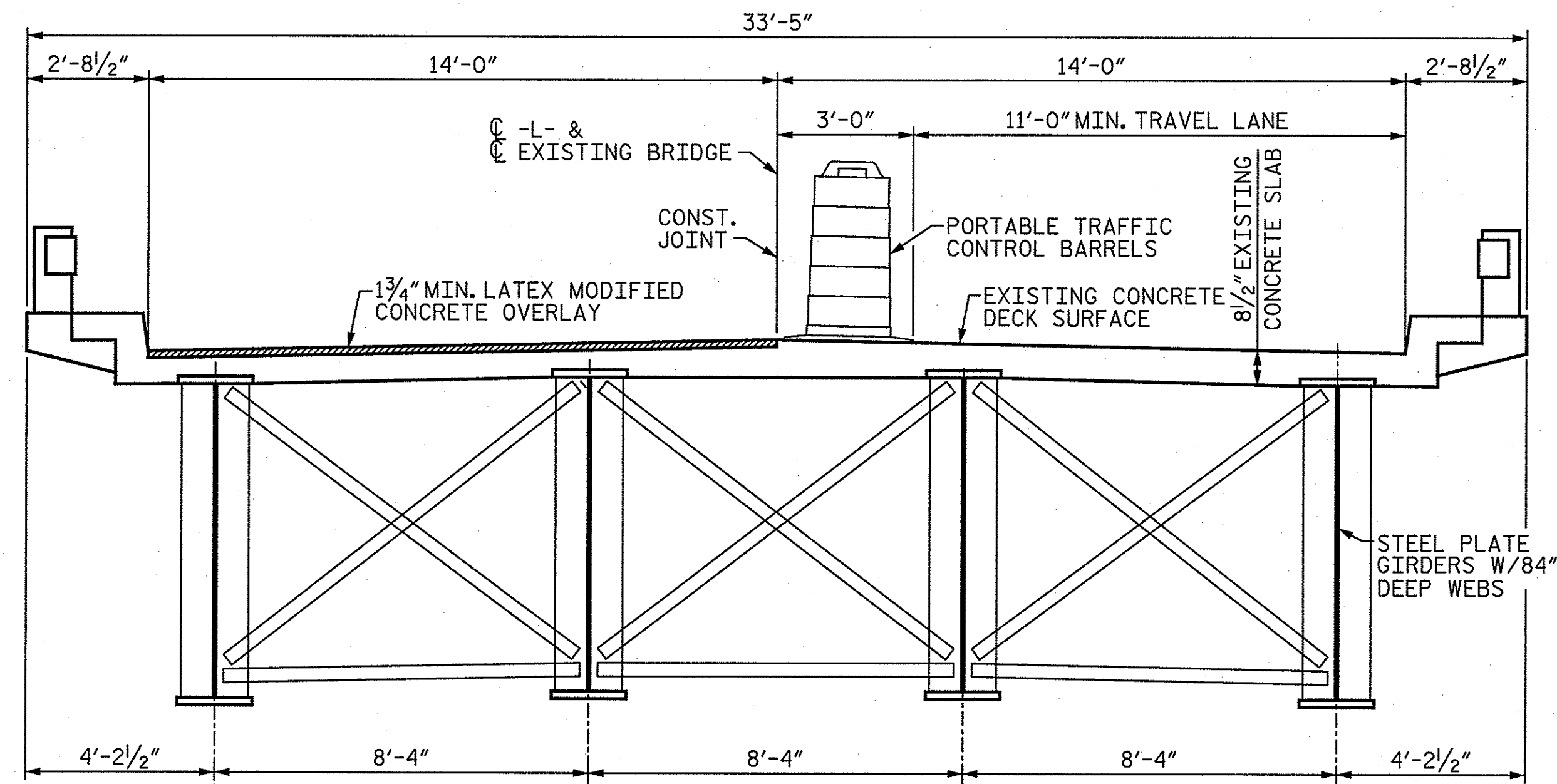
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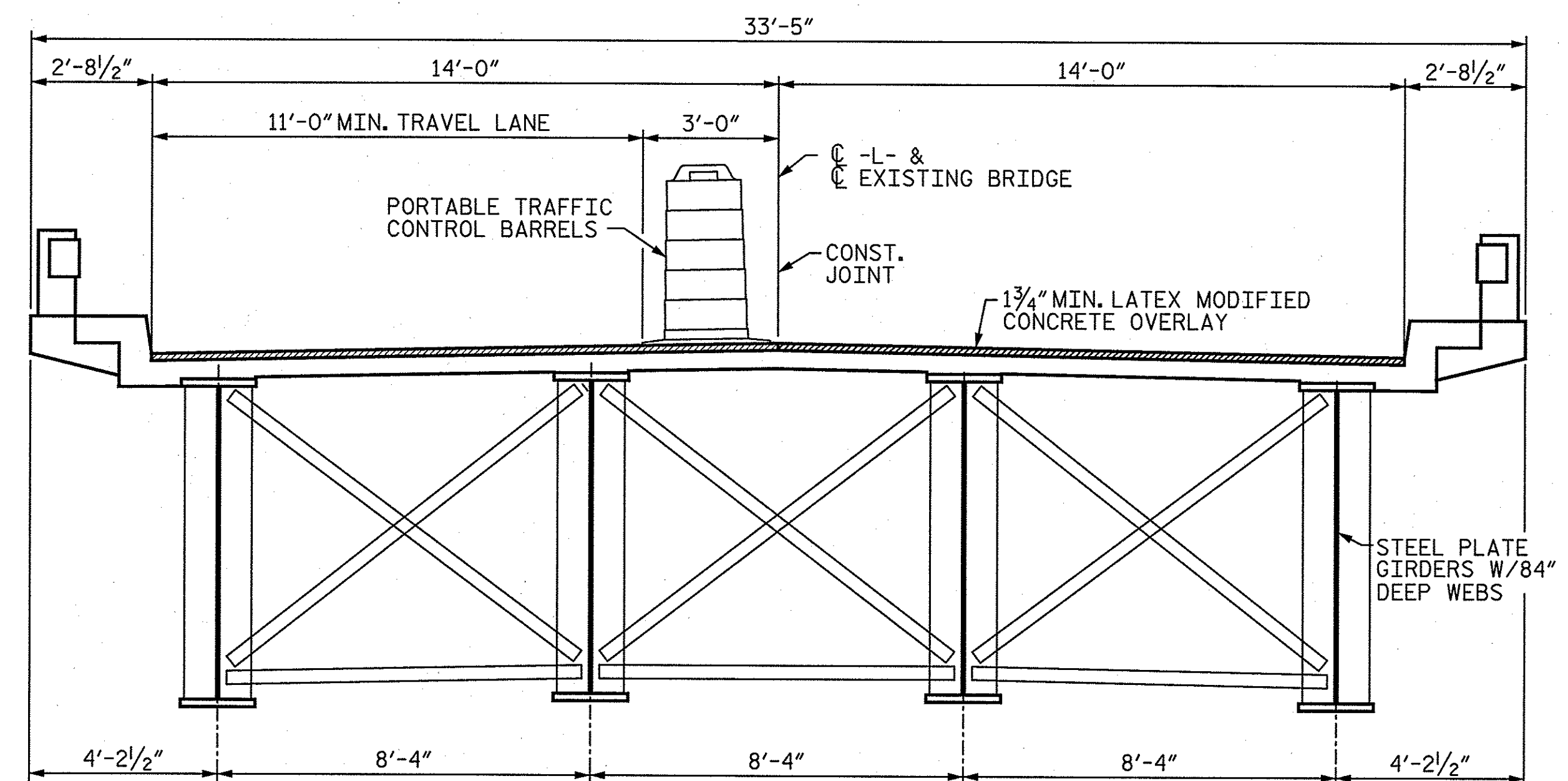
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PLAN OF SPANS - BRIDGE DECK GROOVING
(CONCRETE BRIDGE FLOORS SHALL BE GROOVED TO WITHIN 1'-6" OF THE GUTTER LINE AND 2" OF JOINTS.)



TYPICAL SECTION - STAGE I
(AT INTERMEDIATE DIAPHRAGMS)



TYPICAL SECTION - STAGE II
(AT INTERMEDIATE DIAPHRAGMS)

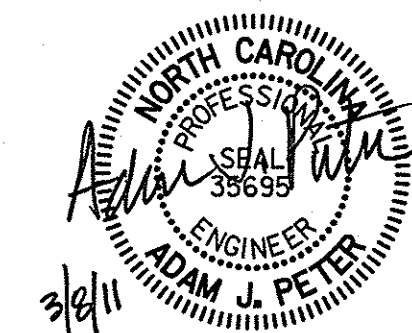
NOTE:
SEE NOTES ON SHEET 2 OF 4.

TOTAL BILL OF MATERIAL									
DECK SCARIFICATION	*CLASS I SURFACE PREPARATION	*CLASS II SURFACE PREPARATION	*CLASS III SURFACE PREPARATION	*CLASS AA CONCRETE	HYDRO-DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	EVAZOTE JOINT SEAL	GROOVING BRIDGE FLOORS
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	LUMP SUM	SQ. FT.
1370	1147	223	0	0	1370	83	1370	LUMP SUM	10,976

* QUANTITIES FOR INFORMATION ONLY.

PROJECT NO. **BP-5300U**
WILKES COUNTY
STATION: **38+92.50 -L-**

SHEET 1 OF 4



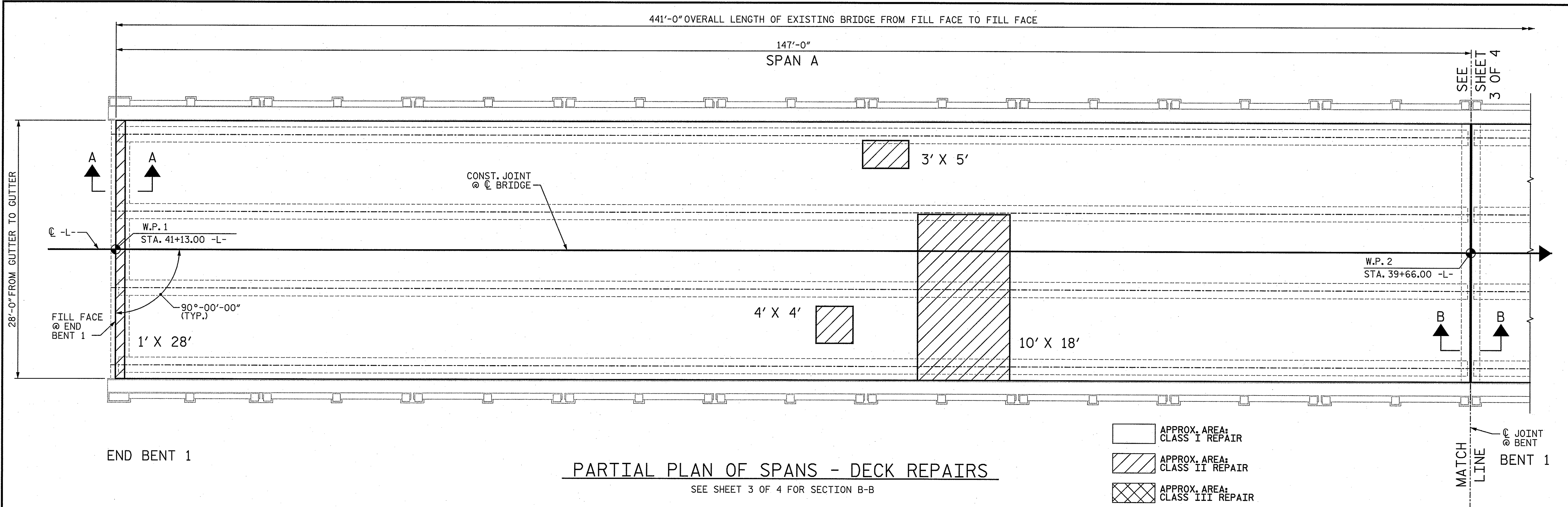
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**PLAN OF SPANS
TYPICAL SECTION
BRIDGE #68 ON N.C. HWY 268
OVER WARRIOR CREEK**

DRAWN BY : **PWP** DATE : **2-11**
CHECKED BY : **AJP** DATE : **2-11**

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1000 West Morehead St., Ste. 200
Charlotte, NC 28208
N.C. License No. F-0991

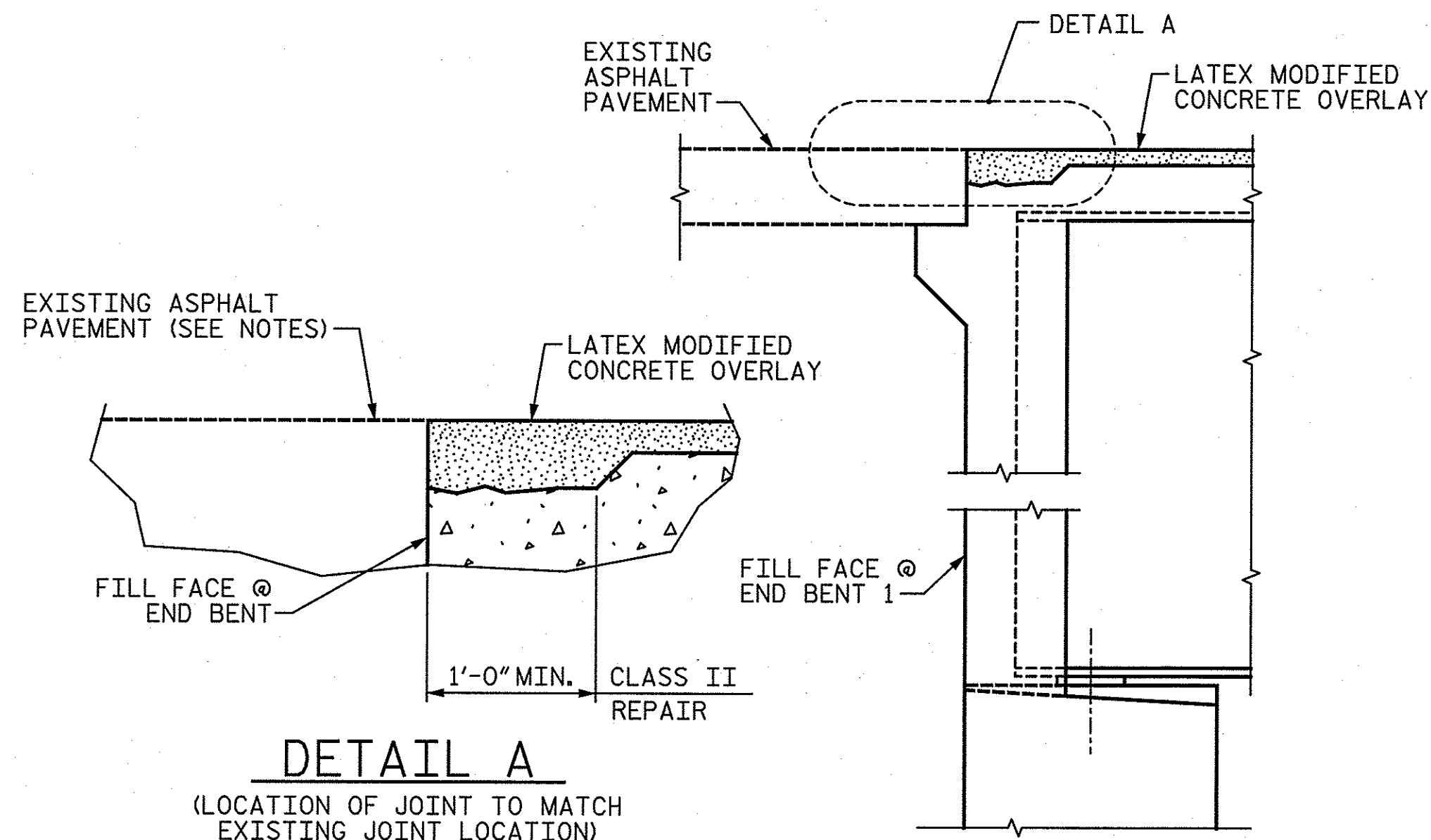
REVISIONS						SHEET NO. S-5
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 13
2			4			

...\\Bridge 068\\BRIDGE068.dgn



PARTIAL PLAN OF SPANS - DECK REPAIRS SEE SHEET 3 OF 4 FOR SECTION B-B

- APPROX. AREA: CLASS I REPAIR
- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR



SECTION A-A (PROPOSED JOINT @ END BENT 1 SHOWN, END BENT 2 SIMILAR)

NOTES:

LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH. SEE SPECIAL PROVISIONS.

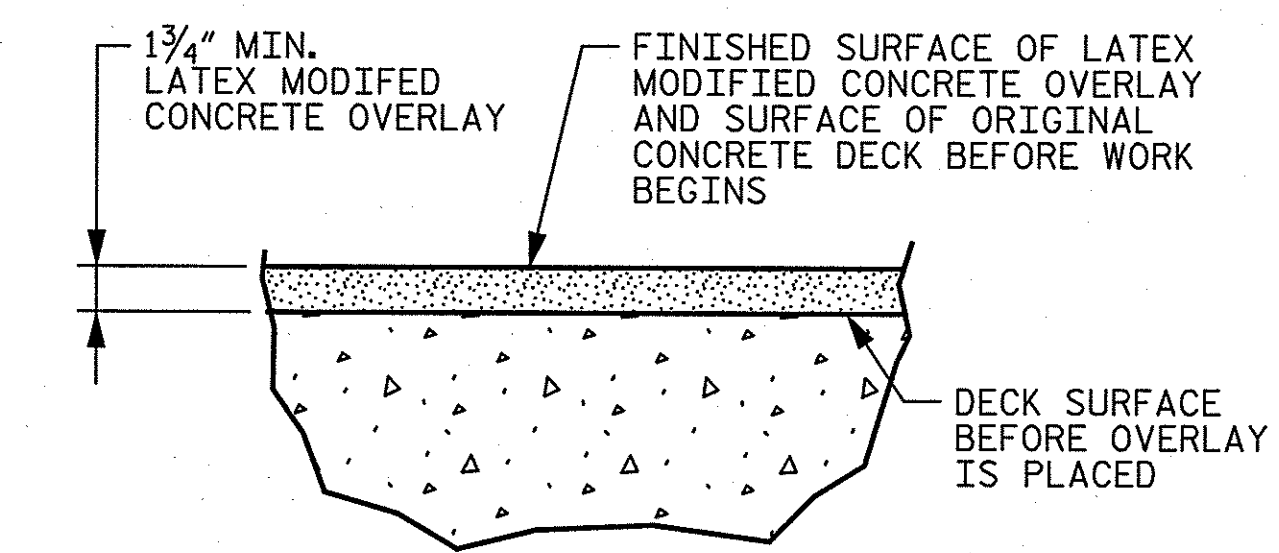
FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS. SEE SPECIAL PROVISIONS.

THE BOUNDARY AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW-THROUGH OF THE DECK. SEE DETAIL ON SHEET 4 OF 4.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.

CONTRACTOR'S MEANS AND METHODS SHALL MINIMIZE DAMAGE TO EXISTING APPROACH PAVEMENT. AREAS OF APPROACH PAVEMENT DAMAGED BY CONSTRUCTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. ANY COST ASSOCIATED WITH REPAIR OF APPROACH PAVEMENT SHALL BE CONSIDERED INCIDENTAL AND NO SEPERATE MEASUREMENT AND PAYMENT WILL BE MADE.



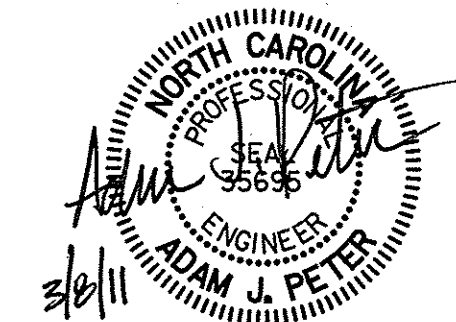
DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

PROJECT NO. **BP-5300U**

WILKES COUNTY

STATION: **38+92.50 -L-**

SHEET 2 OF 4



STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
PLAN OF SPANS DECK REPAIR SPAN A					
DECK REHAB BRIDGE NO. 068					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-6					TOTAL SHEETS 13

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Charlotte, NC 28208
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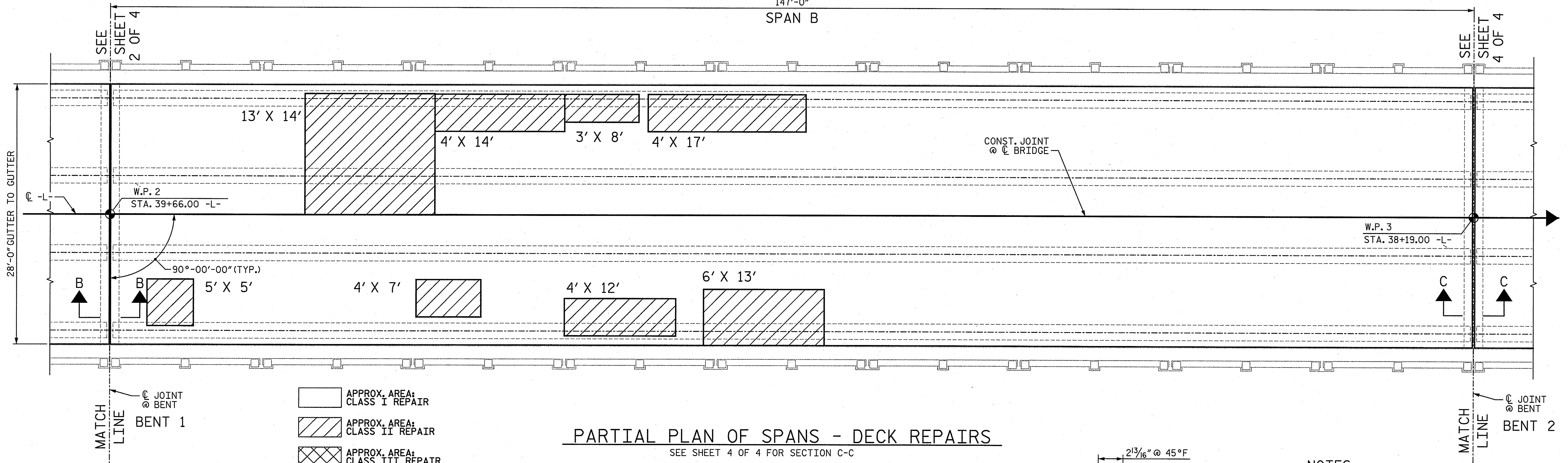
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441'-0" OVERALL LENGTH OF EXISTING BRIDGE FROM FILL FACE TO FILL FACE

147'-0"
SPAN B



PARTIAL PLAN OF SPANS - DECK REPAIRS

SEE SHEET 4 OF 4 FOR SECTION C-C

NOTES:

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.

THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 3 1/16".

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

EVAZOTE JOINT OPENINGS SHALL BE CONFIRMED IN THE FIELD. CONTRACTOR SHALL MAKE ADJUSTMENTS TO EVAZOTE JOINT SEALS, AS NECESSARY, TO MEET EXISTING CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS. ANY CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANY COST ASSOCIATED WITH THESE ADJUSTMENTS ARE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

FOR ADDITIONAL NOTES, SEE SHEET 2 OF 4.

PROJECT NO. BP-5300U

WILKES COUNTY

STATION: 38+92.50 -L-

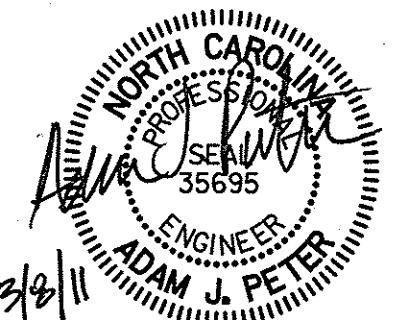
SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPAN B

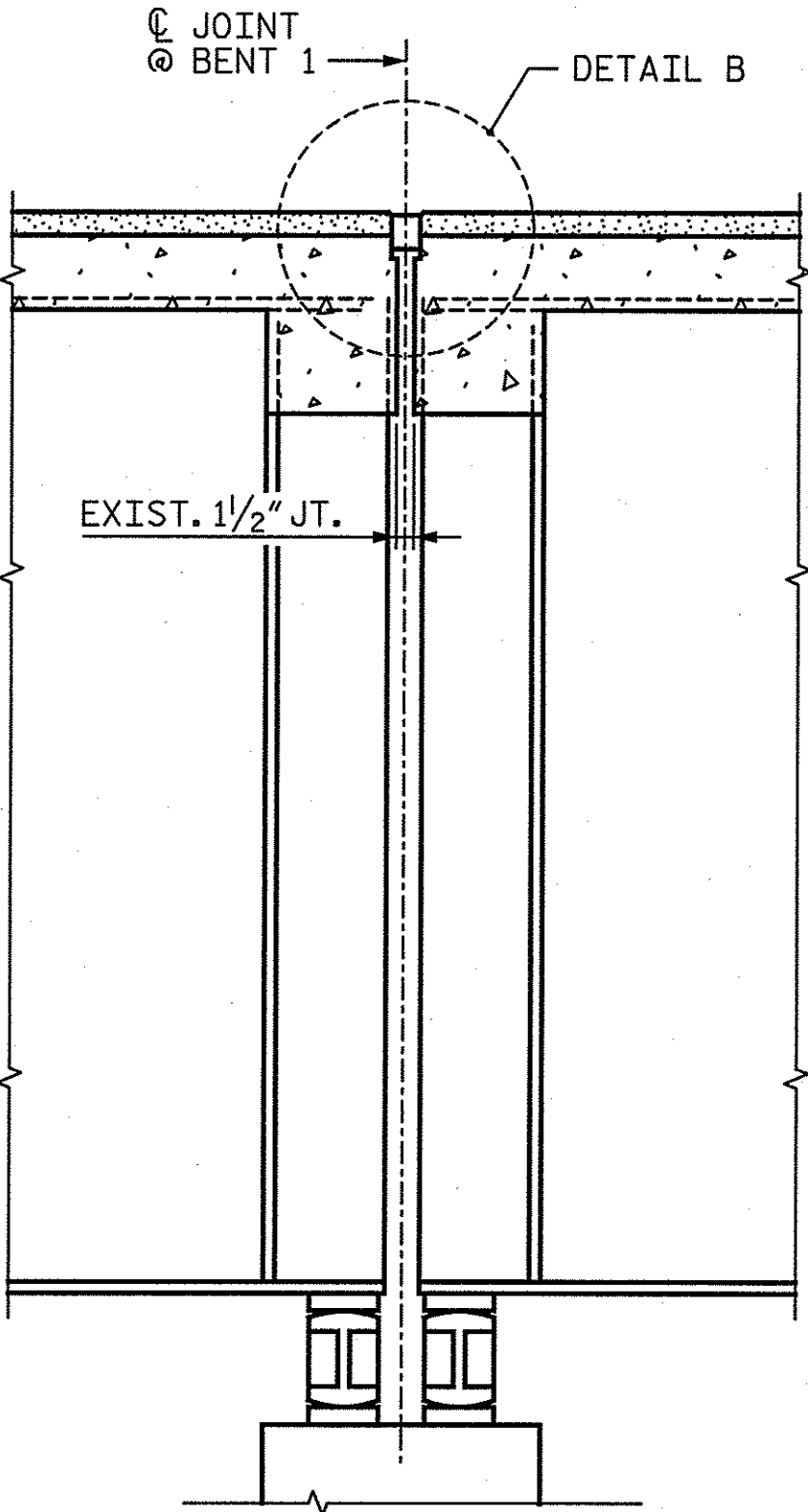
DECK REHAB BRIDGE NO. 068

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-7
2			4			TOTAL SHEETS 13

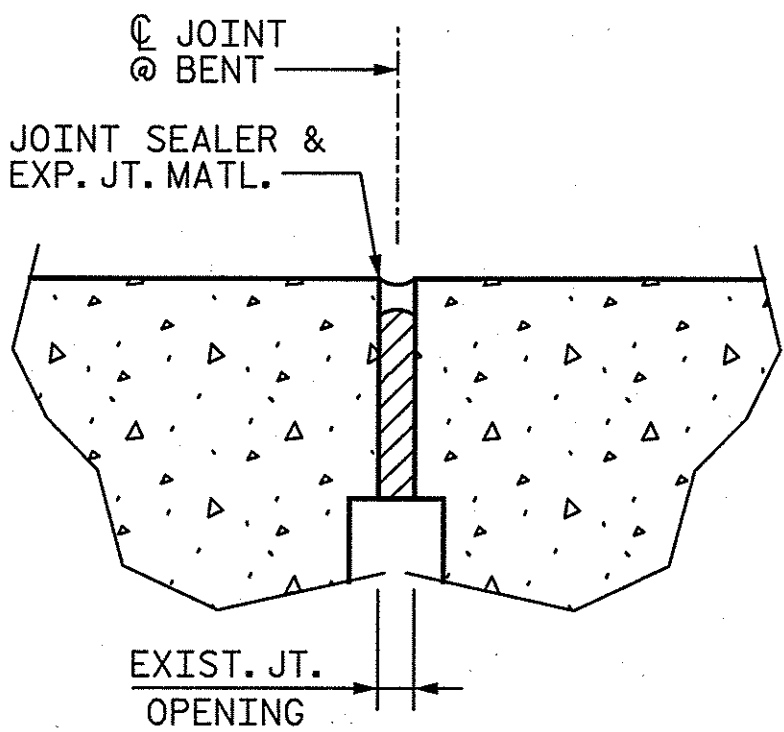


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Charlotte, NC 28208
N.C. License No. F-0991

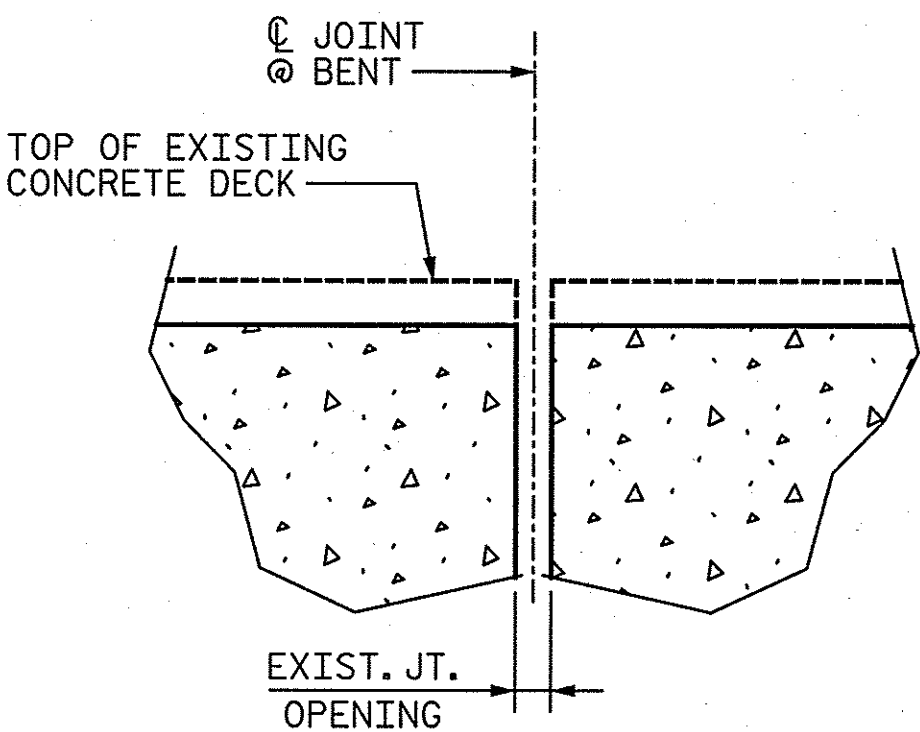
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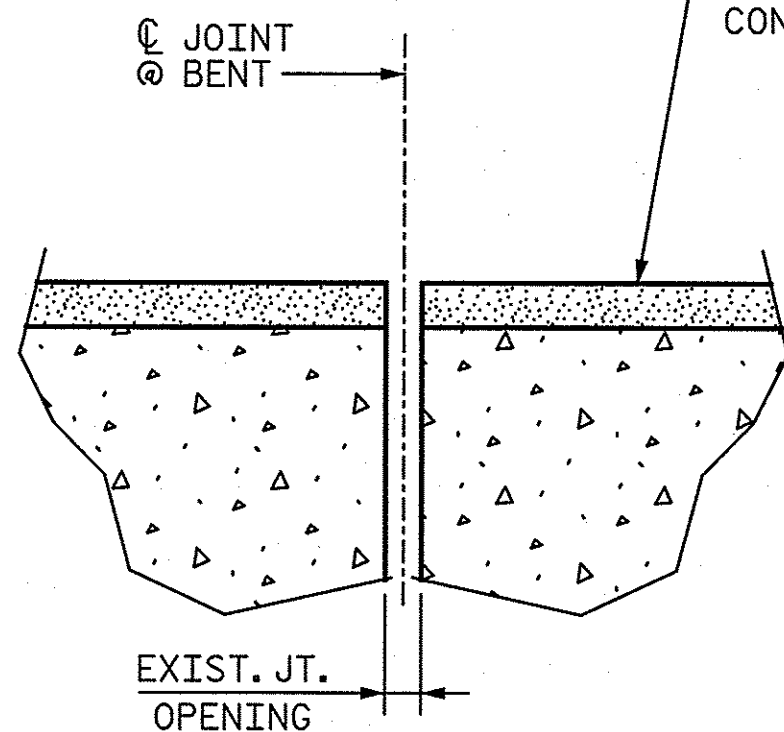
SECTION B-B
(PROPOSED JOINT @ BENT 1)



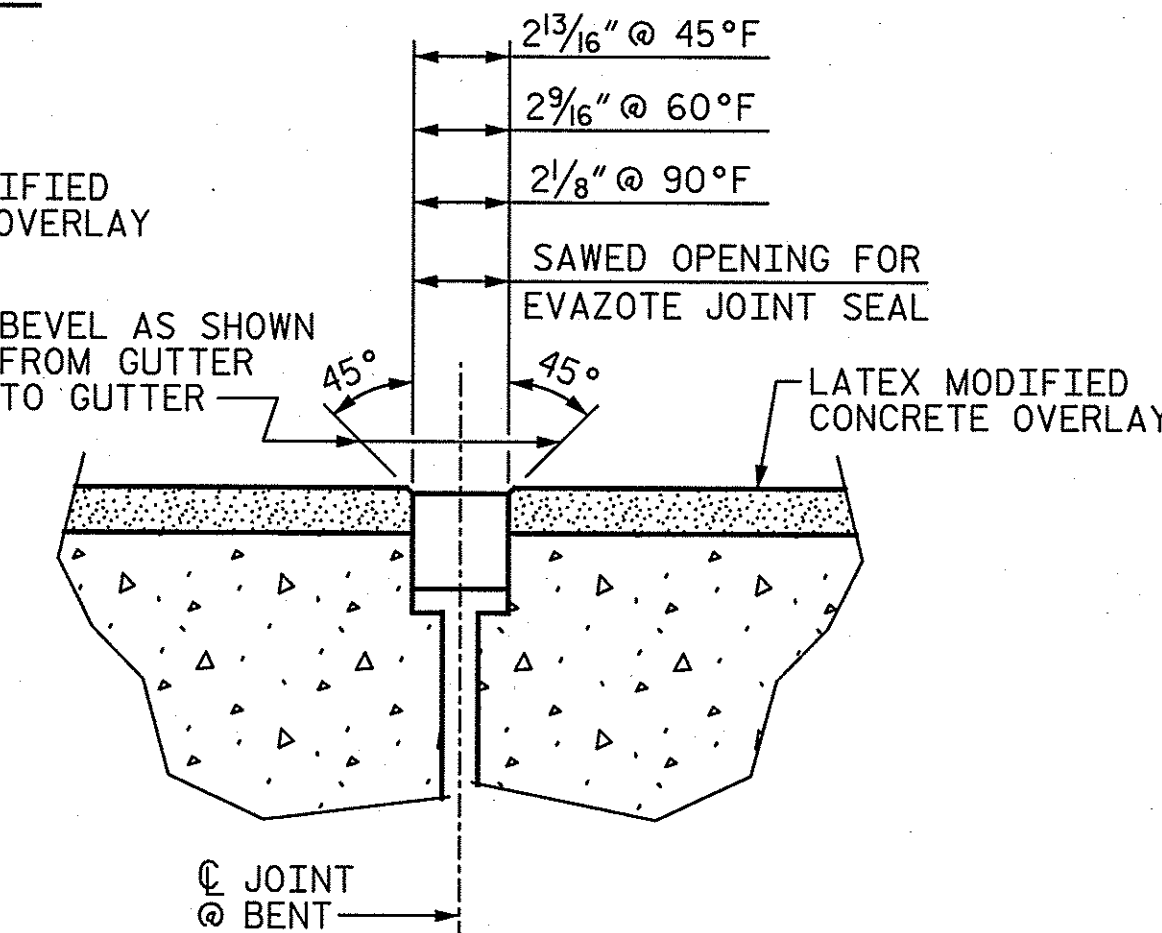
EXISTING JOINT DETAIL



MINIMUM CONCRETE REMOVAL
DETAIL @ EXISTING JOINT

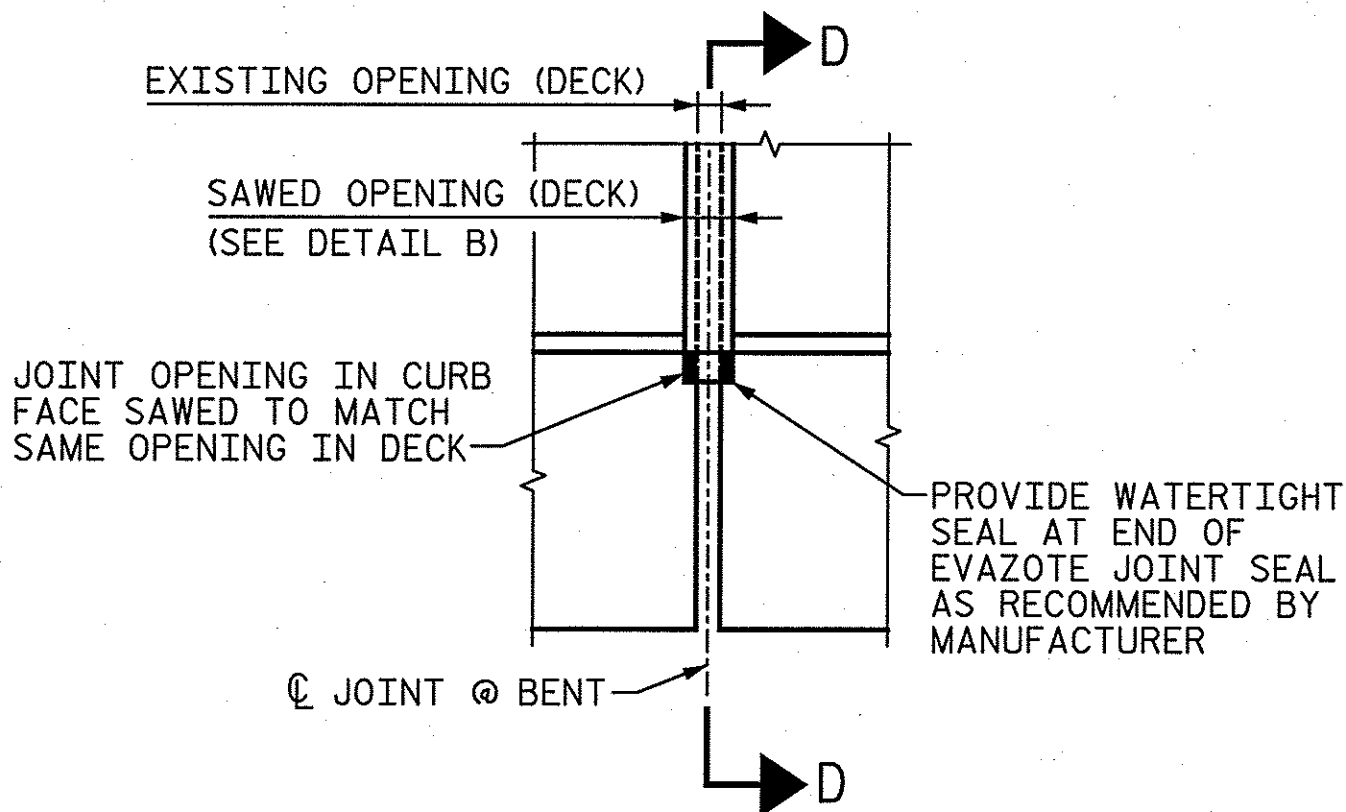


PROPOSED EVAZOTE JOINT SEAL
(DETAIL BEFORE SAWING)

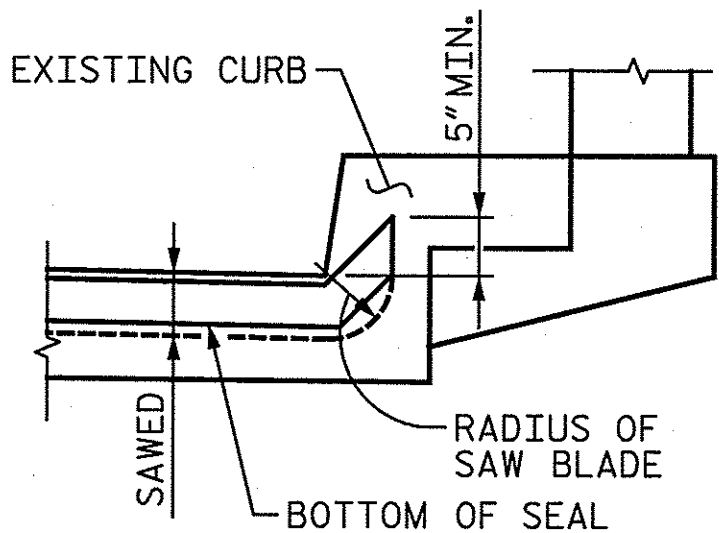


PROPOSED EVAZOTE JOINT SEAL
(DETAIL AFTER SAWING)

DETAIL B



PLAN OF JOINT SEAL AT CURB



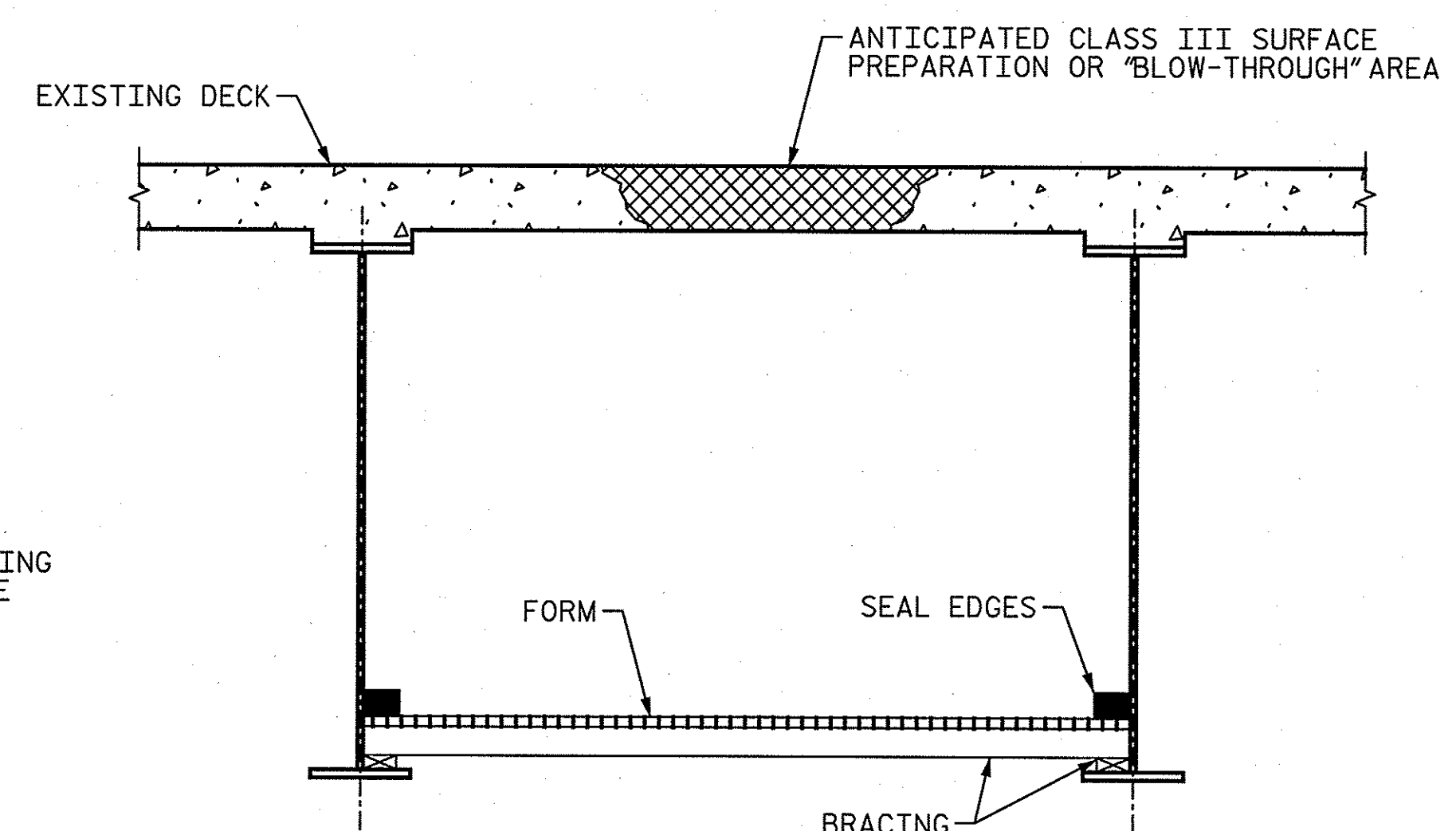
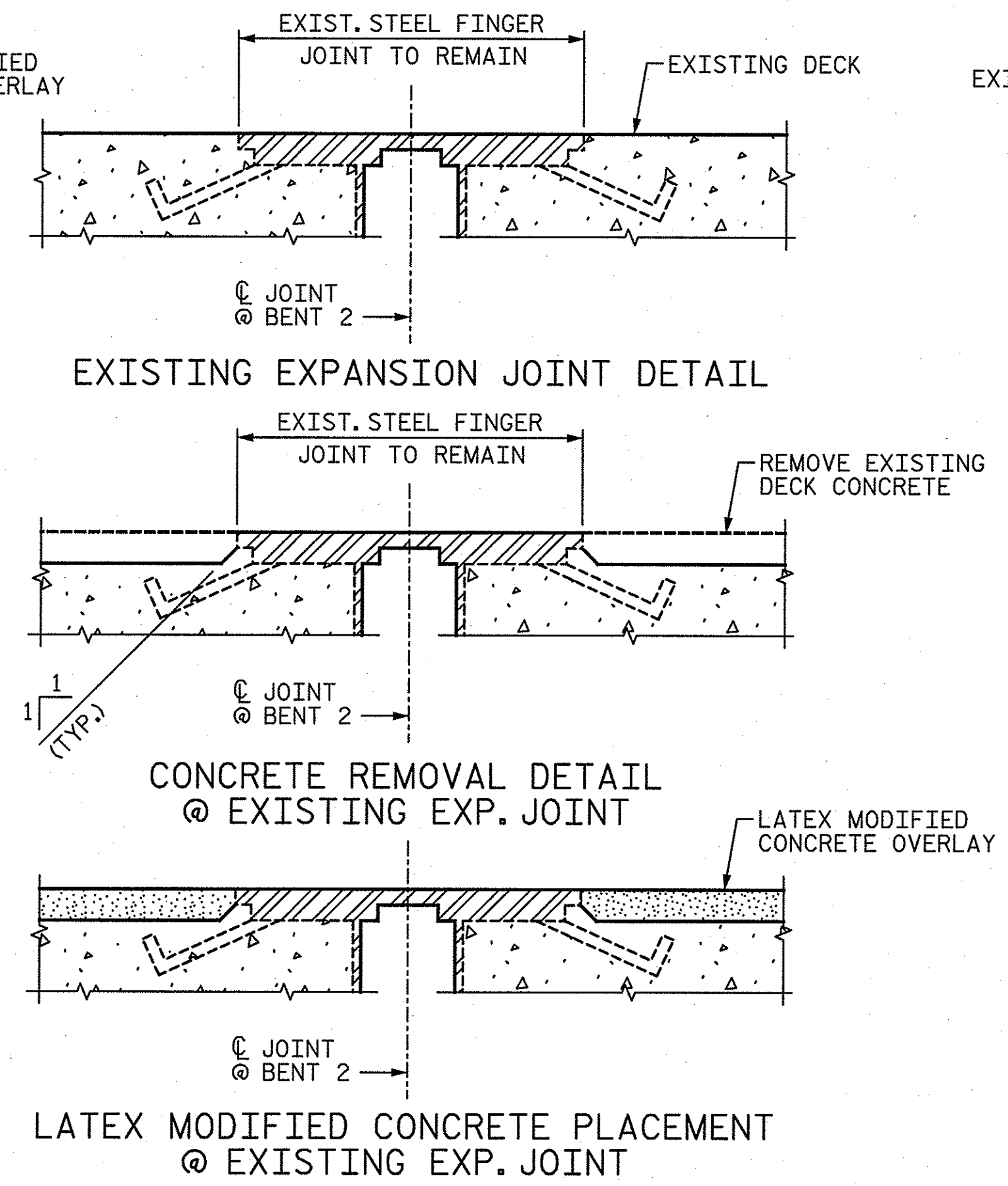
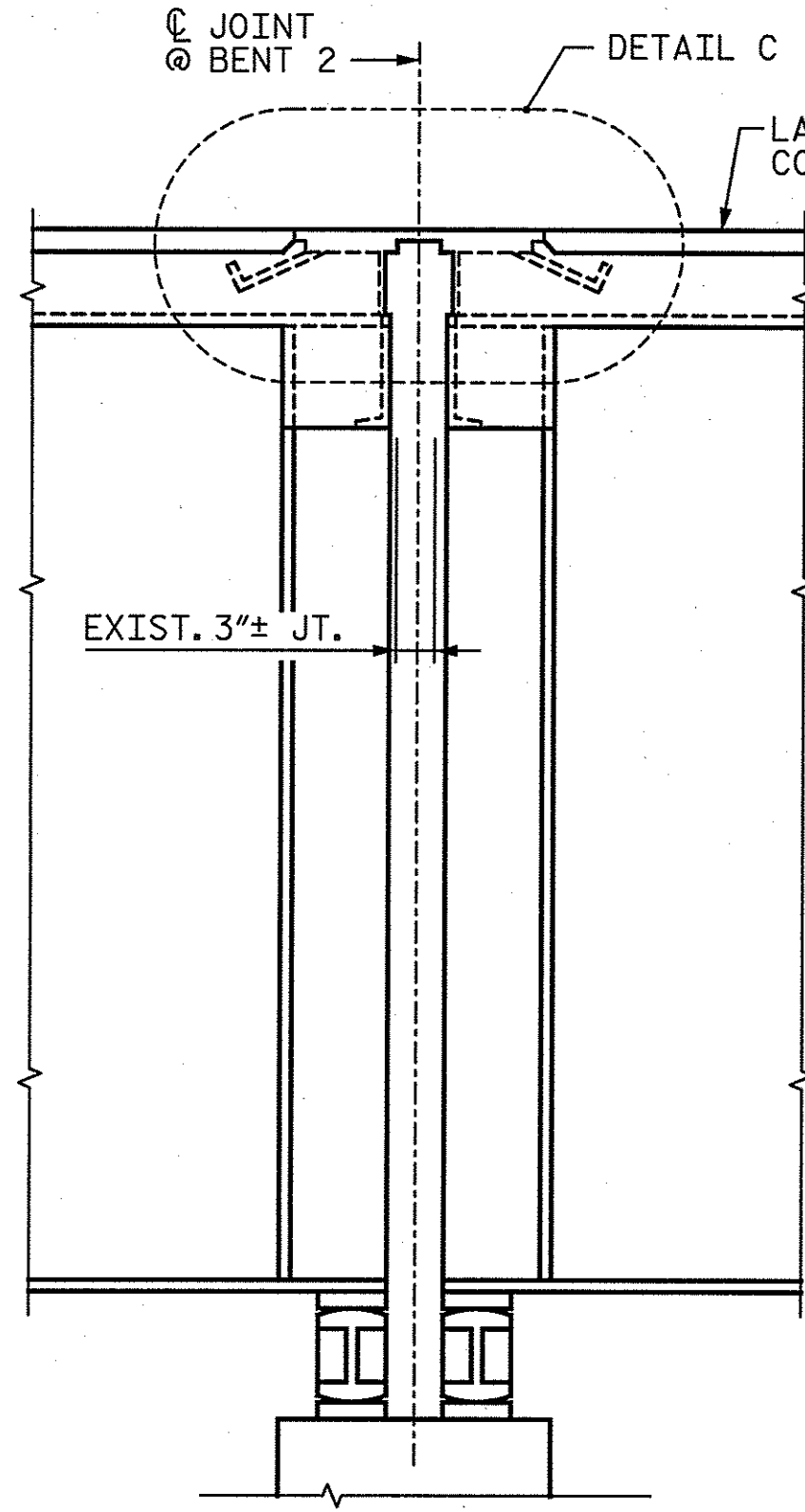
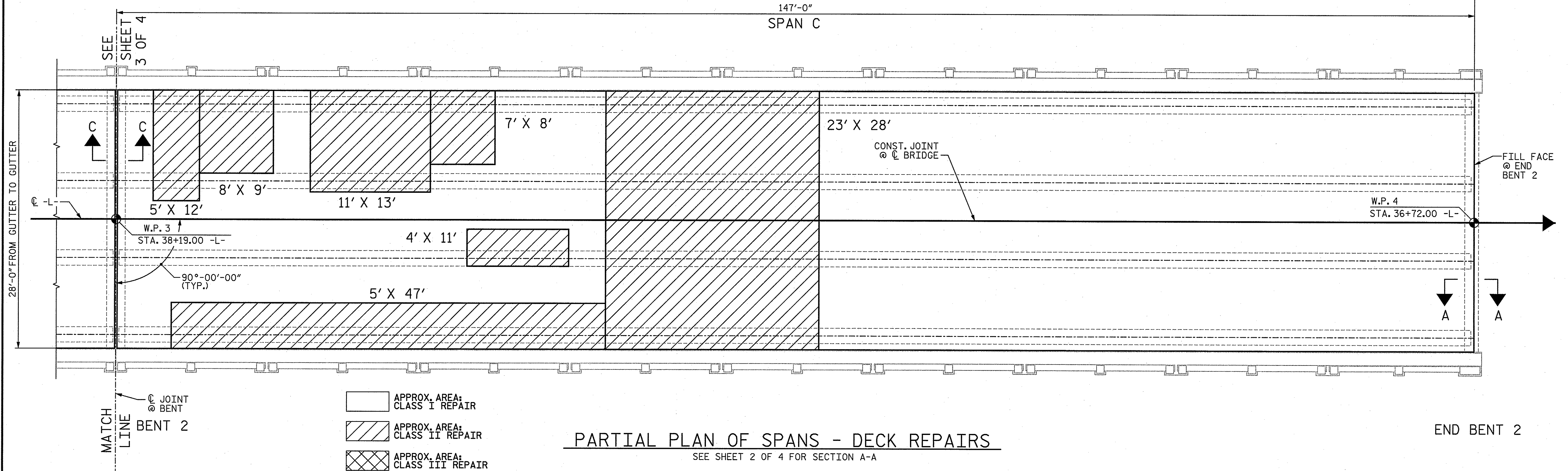
SECTION D-D

DRAWN BY : PWP DATE : 2-11
CHECKED BY : AJP DATE : 2-11

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441'-0" OVERALL LENGTH OF EXISTING BRIDGE FROM FILL FACE TO FILL FACE

147'-0"
SPAN C



A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THROUGH DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.

NOTE:
SEE NOTES ON SHEET 2 OF 4.

PROJECT NO. **BP-5300U**
WILKES COUNTY
STATION: **38+92.50 -L-**

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPAN C

DECK REHAB BRIDGE NO. 068

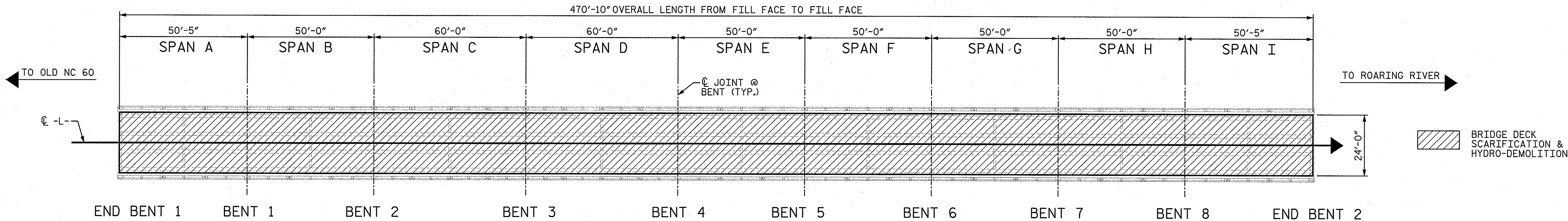
REVISIONS						SHEET NO. S-8
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 13
2			4			

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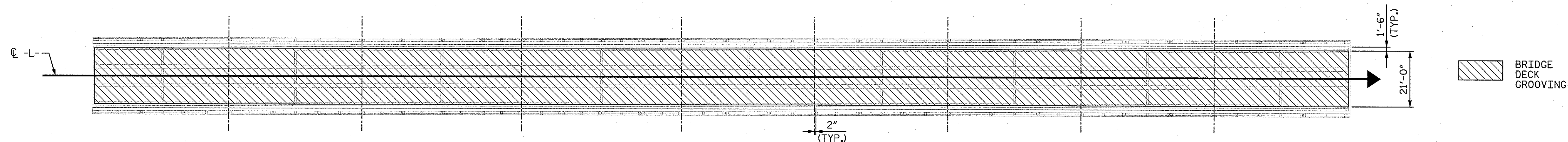
3/8/11

ADAM J. PETER
ENGINEER

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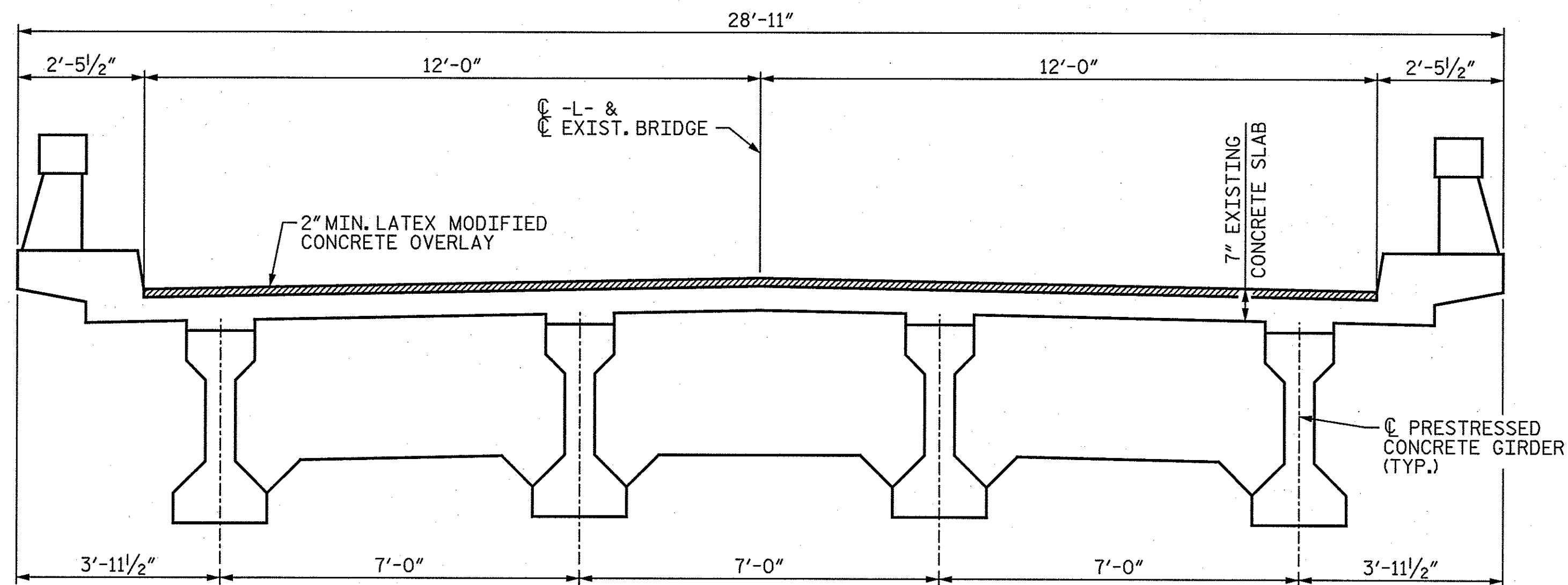


PLAN OF SPANS - DECK SCARIFICATION & HYDRO-DEMOLITION



PLAN OF SPANS - BRIDGE DECK GROOVING

(CONCRETE BRIDGE FLOORS SHALL BE GROOVED TO WITHIN 1'-6" OF THE GUTTER LINE AND 2" OF JOINTS.)



TYPICAL SECTION
(AT INTERMEDIATE DIAPHRAGMS)

NOTES:

LATEX MODIFIED CONCRETE OVERLAY SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH. SEE SPECIAL PROVISIONS.

FOR HYDRO-DEMOLITION OF BRIDGE DECK, SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS. SEE SPECIAL PROVISIONS.

THE BOUNDARY AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE CONTAINMENT FOR UNEXPECTED BLOW-THROUGH OF THE DECK. SEE DETAIL ON SHEET 5 OF 5 AND SPECIAL PROVISIONS.

EXISTING BRIDGE INFORMATION BASED ON BEST AVAILABLE DATA.

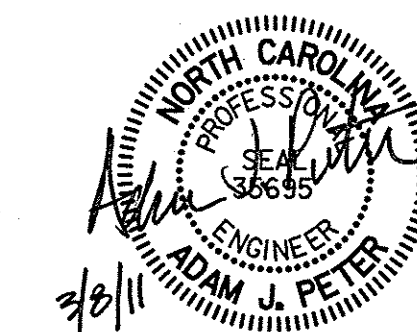
CONTRACTOR'S MEANS AND METHODS SHALL MINIMIZE DAMAGE TO EXISTING APPROACH PAVEMENT. AREAS OF APPROACH PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER. ANY COST ASSOCIATED WITH REPAIR OF APPROACH PAVEMENT SHALL BE CONSIDERED INCIDENTAL AND NO SEPERATE MEASUREMENT AND PAYMENT WILL BE MADE.

PROJECT NO. BP-5300U
WILKES COUNTY
STATION: 18+35.00 -L-

SHEET 1 OF 5

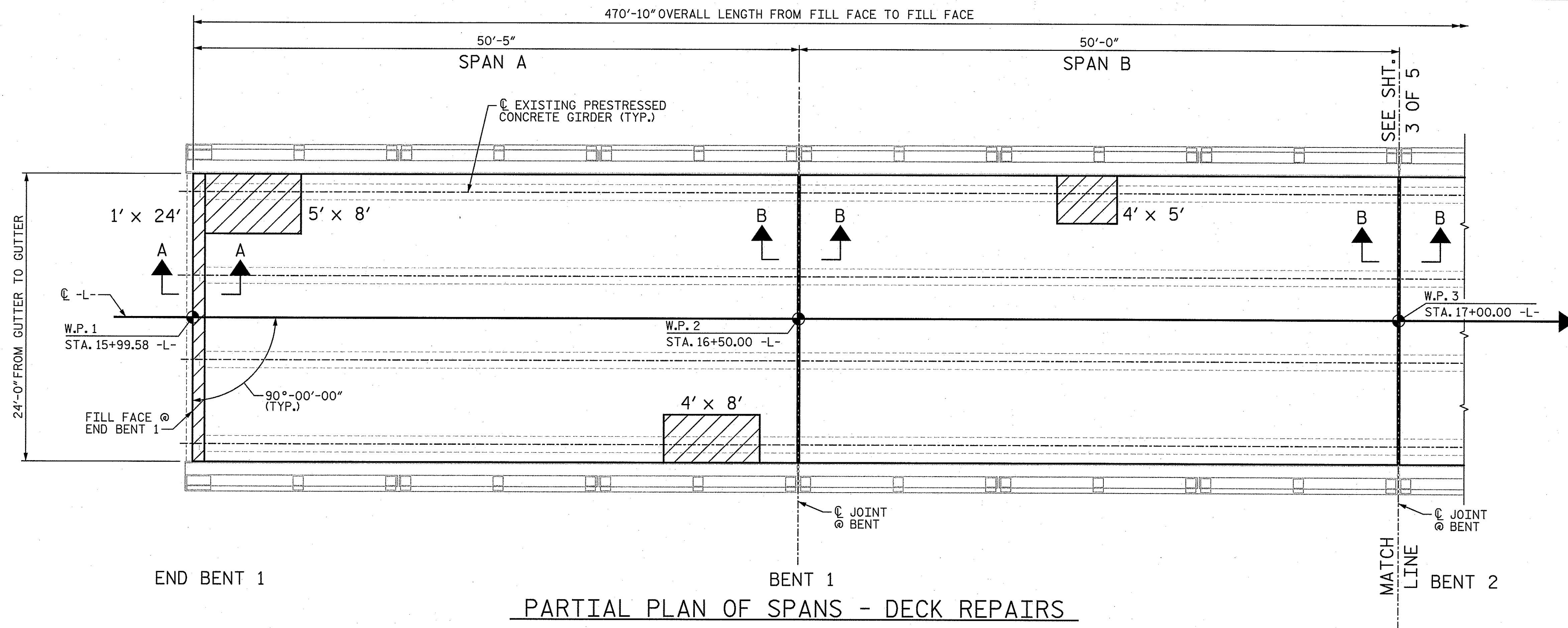
TOTAL BILL OF MATERIAL									
DECK SCARIFICATION	*CLASS I SURFACE PREPARATION	*CLASS II SURFACE PREPARATION	*CLASS III SURFACE PREPARATION	*CLASS AA CONCRETE	HYDRO-DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	EVAZOTE JOINT SEAL	GROOVING BRIDGE FLOORS
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	CU. YDS.	SQ. YDS.	LUMP SUM	SQ. FT.
1254	1137	117	0	0	1254	75	1254	LUMP SUM	9825

* QUANTITIES FOR INFORMATION ONLY.



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2			4			TOTAL SHEETS 13



NOTE:
SEE NOTES ON SHEET 1 OF 5.

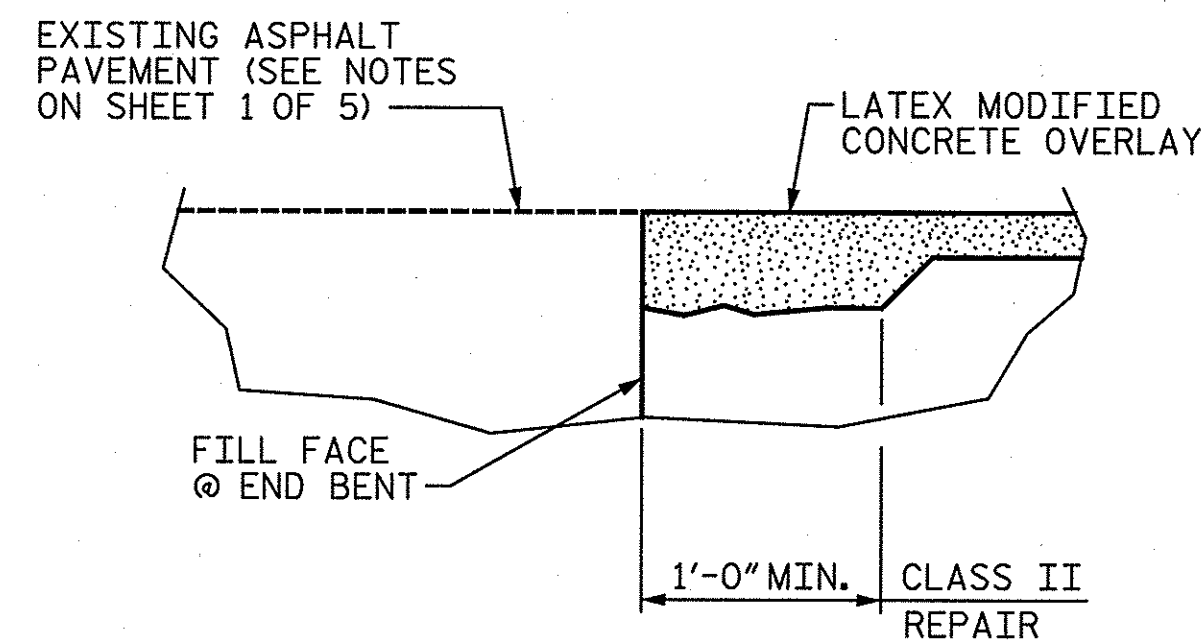
APPROX. AREA:
CLASS I REPAIR

APPROX. AREA:
CLASS II REPAIR

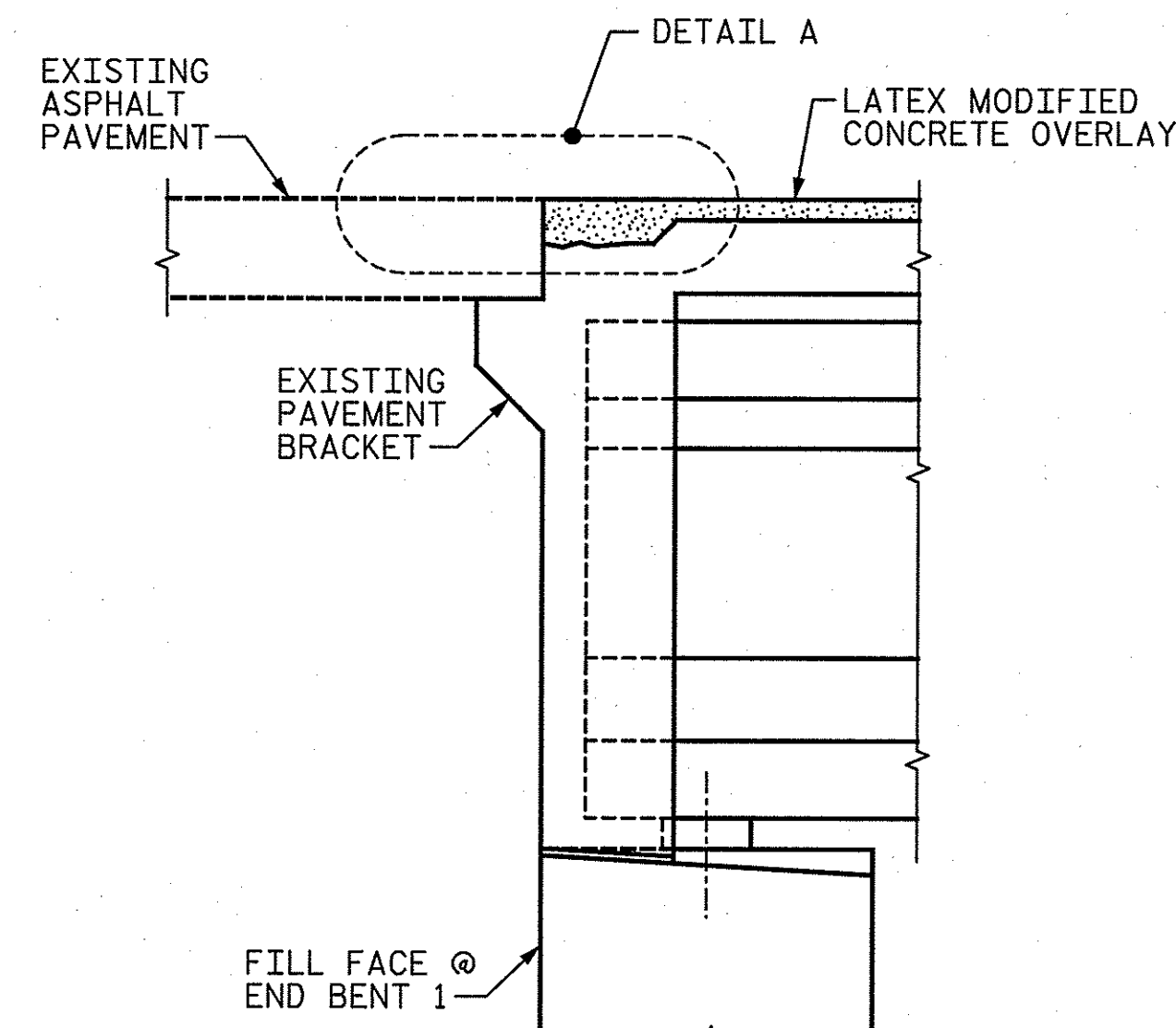
APPROX. AREA:
CLASS III REPAIR

PARTIAL PLAN OF SPANS - DECK REPAIRS

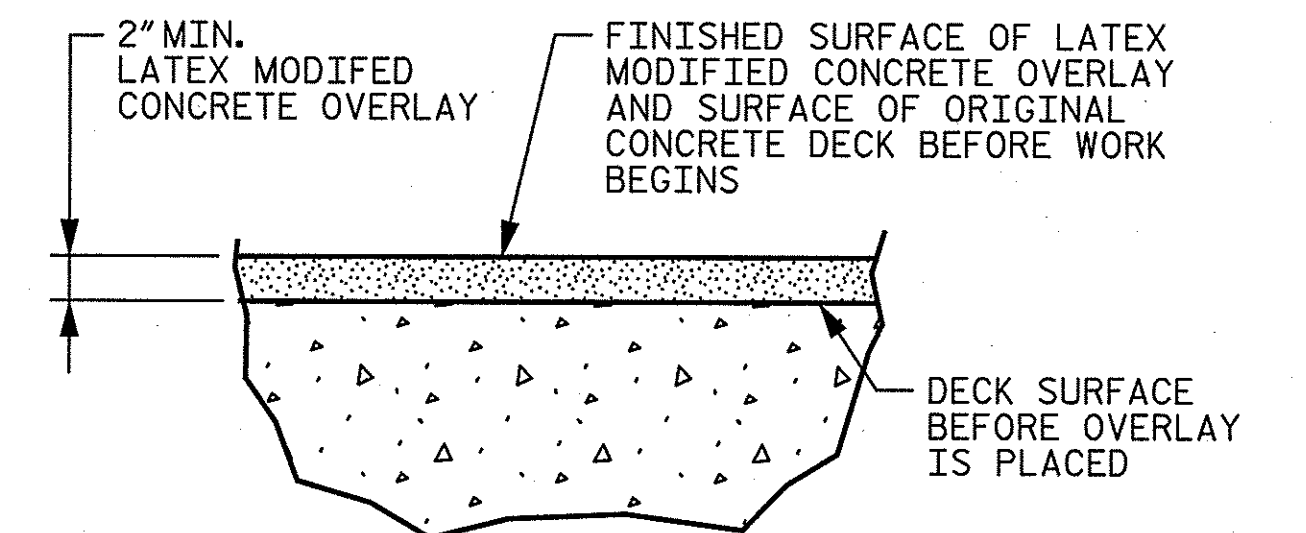
(SEE SHEET 3 OF 5 FOR SECTION B-B)



DETAIL A
(LOCATION OF JOINT TO MATCH EXISTING JOINT LOCATION)



SECTION A-A
(PROPOSED JOINT @ END BENT 1 SHOWN, END BENT 2 SIMILAR)



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

PROJECT NO. **BP-5300U**
WILKES COUNTY
STATION: **18+35.00 -L-**

SHEET 2 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**PLAN OF SPANS
DECK REPAIR
SPANS A & B**

DECK REHAB BRIDGE NO. 191

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-10
2			4			TOTAL SHEETS 13

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ADAM J. PETER
ENGINEER
3/8/11

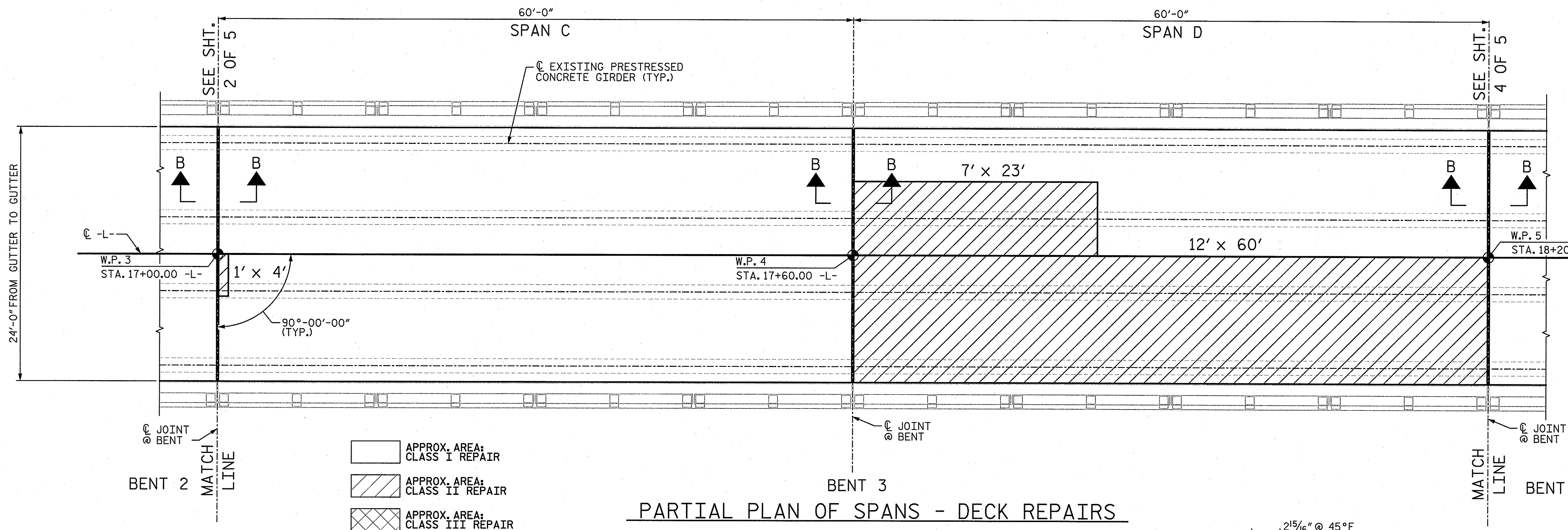
DRAWN BY: **PWP** DATE: **2-11**
CHECKED BY: **AJP** DATE: **2-11**

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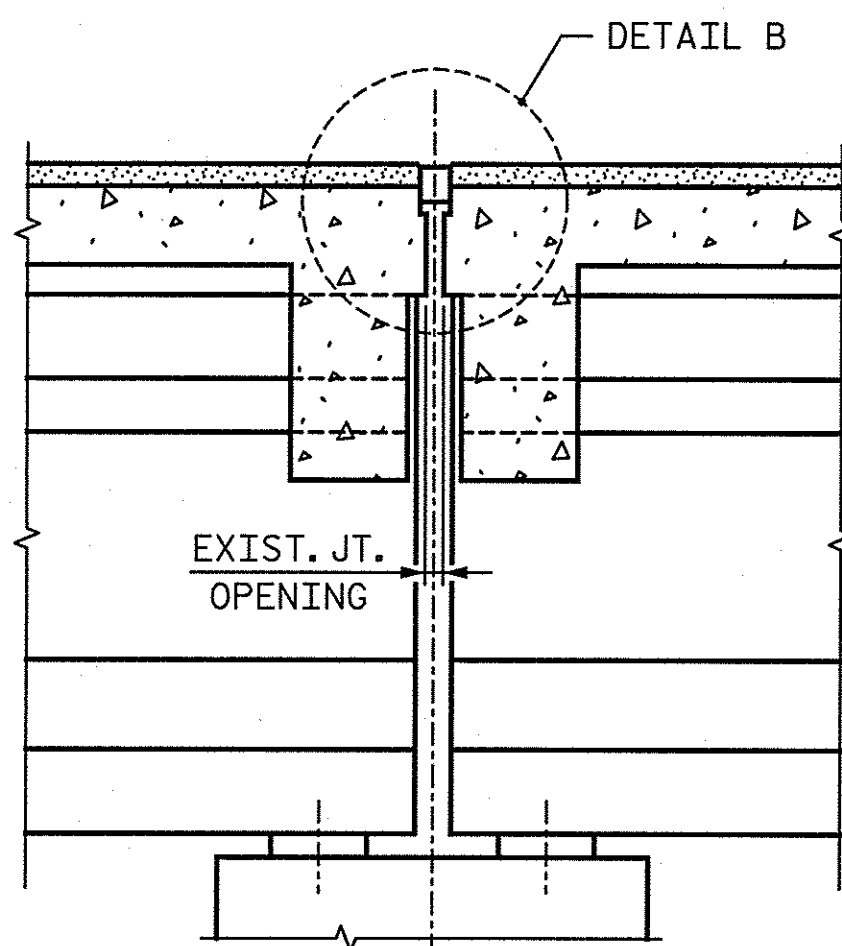
470'-10" OVERALL LENGTH FROM FILL FACE TO FILL FACE

NOTE:
SEE NOTES ON SHEET 1 OF 5.

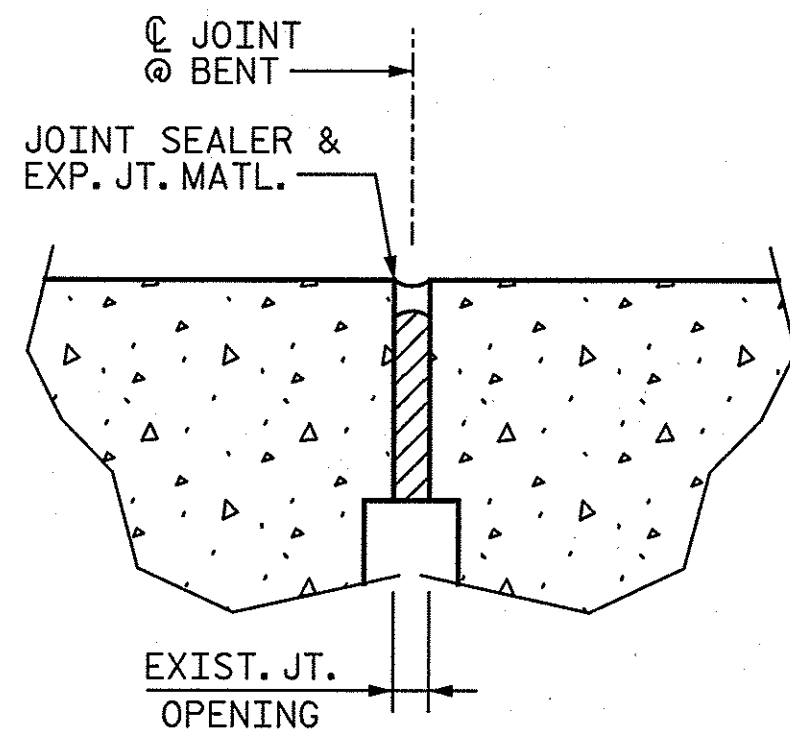


- APPROX. AREA:
CLASS I REPAIR
- APPROX. AREA:
CLASS II REPAIR
- APPROX. AREA:
CLASS III REPAIR

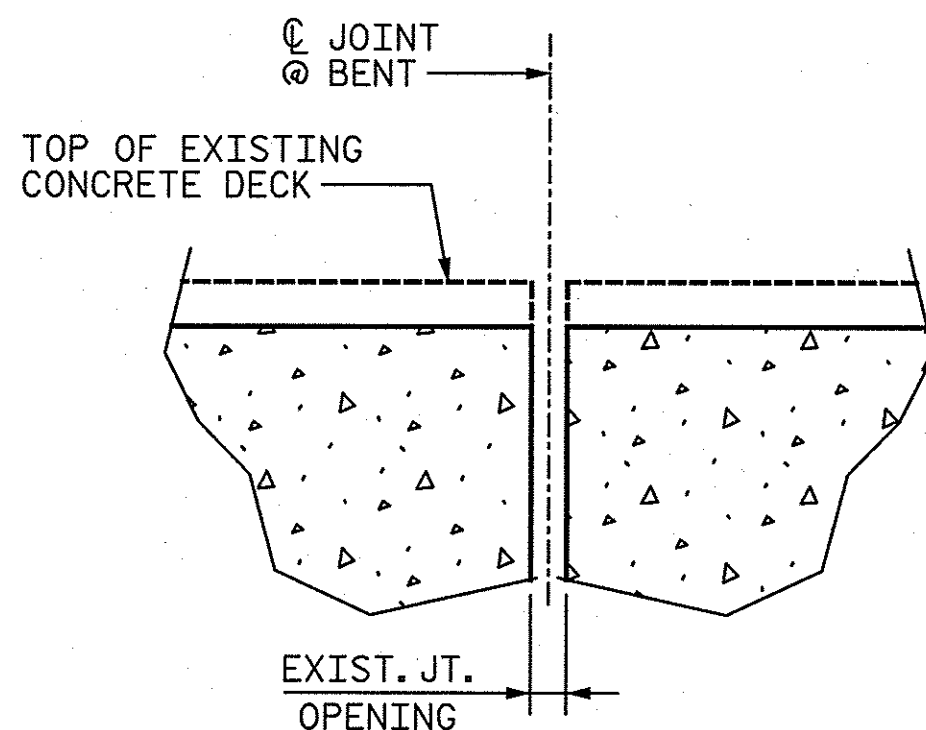
PARTIAL PLAN OF SPANS - DECK REPAIRS



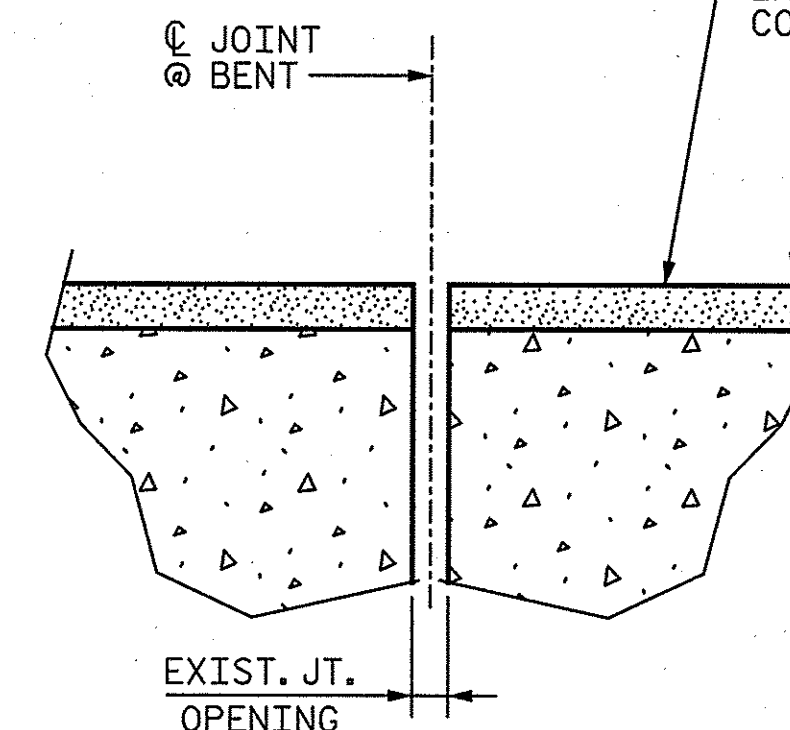
SECTION B-B
(PROPOSED JOINT)
(TYP. @ INTERIOR BENTS)



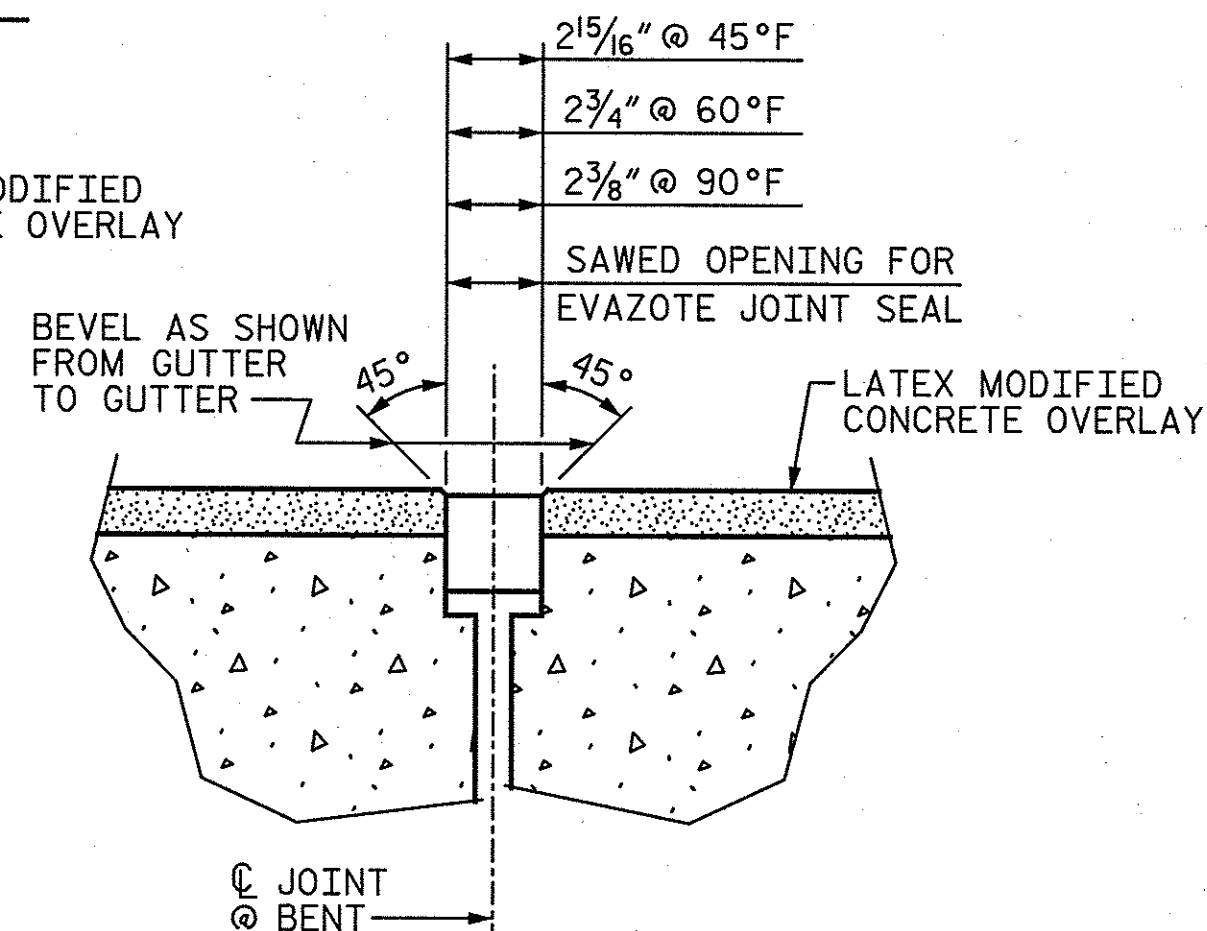
EXISTING JOINT DETAIL



MINIMUM CONCRETE REMOVAL
DETAIL @ EXISTING JOINT



PROPOSED EVAZOTE JOINT SEAL
(DETAIL BEFORE SAWING)



PROPOSED EVAZOTE JOINT SEAL
(DETAIL AFTER SAWING)

NOTES:

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.

THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 3 7/16".

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

EVAZOTE JOINT OPENINGS SHALL BE CONFIRMED IN THE FIELD. CONTRACTOR SHALL MAKE ADJUSTMENTS TO EVAZOTE JOINT SEALS, AS NECESSARY, TO MEET EXISTING CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS. ANY CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANY COST ASSOCIATED WITH THESE ADJUSTMENTS ARE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.

PROJECT NO. **BP-5300U**
WILKES COUNTY
STATION: **18+35.00 -L-**

SHEET 3 OF 5

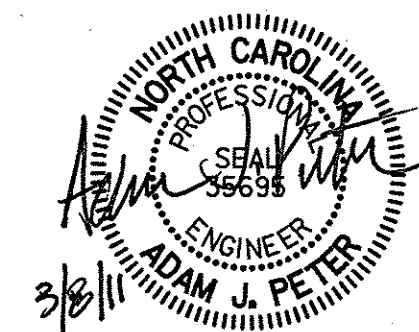
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPANS C & D

DECK REHAB BRIDGE NO. 191

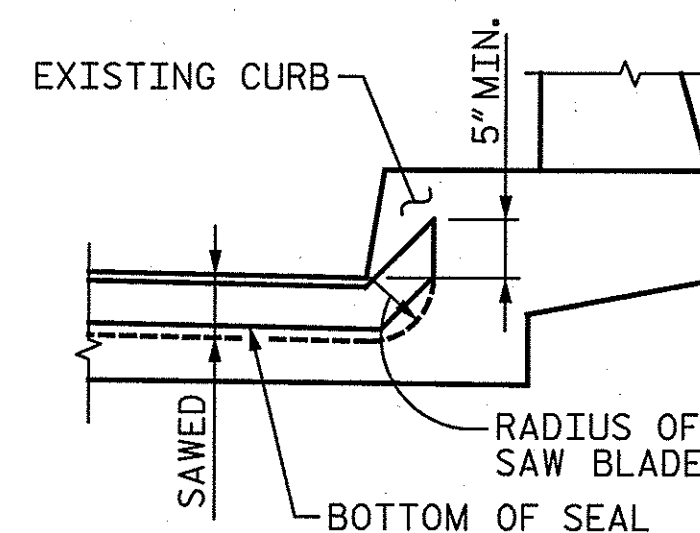
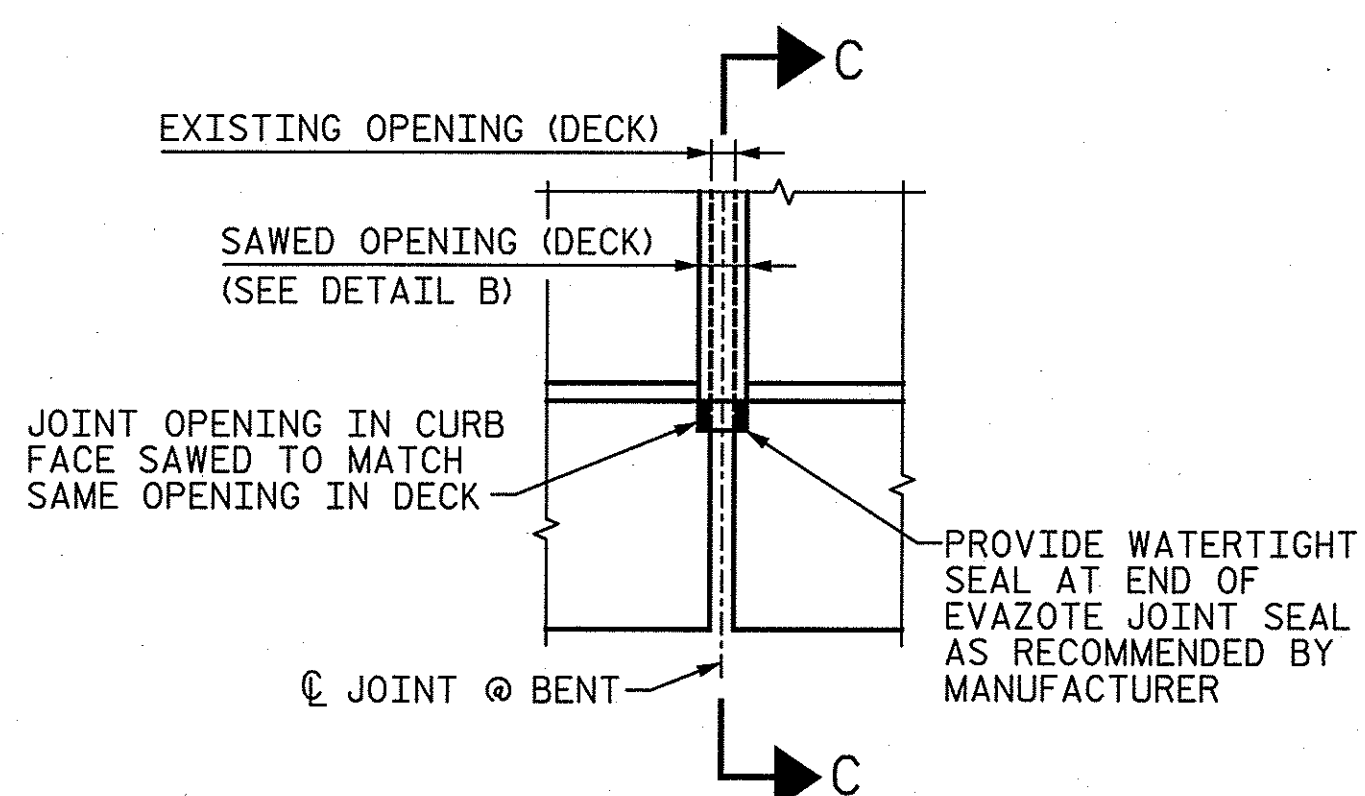
REVISIONS						SHEET NO.
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TOTAL SHEETS						13

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PLAN OF JOINT SEAL AT CURB



SECTION C-C

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470'-10" OVERALL LENGTH FROM FILL FACE TO FILL FACE

50'-0"

SPAN E

50'-0"

SPAN F

EXISTING PRESTRESSED
CONCRETE GIRDER (TYP.)

SEE
BELOW

NOTE:
SEE NOTES ON SHEET 1 OF 5.

- APPROX. AREA:
CLASS I REPAIR
- APPROX. AREA:
CLASS II REPAIR
- APPROX. AREA:
CLASS III REPAIR

24'-0" FROM GUTTER TO GUTTER

W.P. 5
STA. 18+20.00 -L-

W.P. 6
STA. 18+70.00 -L-

1' x 24'

W.P. 7
STA. 19+20.00 -L-

90°-00'-00"
(TYP.)

JOINT
BENT

JOINT
BENT

JOINT
BENT

BENT 4

BENT 5

BENT 6

PARTIAL PLAN OF SPANS - DECK REPAIRS

(SEE SHEET 3 OF 5 FOR SECTION B-B)

470'-10" OVERALL LENGTH FROM FILL FACE TO FILL FACE

50'-0"

SPAN G

50'-0"

SPAN H

EXISTING PRESTRESSED
CONCRETE GIRDER (TYP.)

SEE
ABOVE

SEE
SHT. 5
OF 5

24'-0" FROM GUTTER TO GUTTER

W.P. 7
STA. 19+20.00 -L-

W.P. 8
STA. 19+70.00 -L-

W.P. 9
STA. 20+20.00 -L-

90°-00'-00"
(TYP.)

JOINT
BENT

JOINT
BENT

JOINT
BENT

BENT 6

BENT 7

BENT 8

PARTIAL PLAN OF SPANS - DECK REPAIRS

(SEE SHEET 3 OF 5 FOR SECTION B-B)

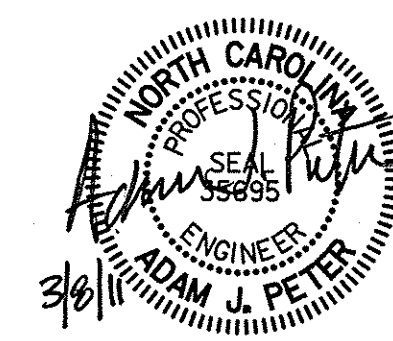
PROJECT NO. BP-5300U
WILKES COUNTY
STATION: 18+35.00 -L-

SHEET 4 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPANS E, F, G & H

DECK REHAB BRIDGE NO. 191



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TOTAL SHEETS						13

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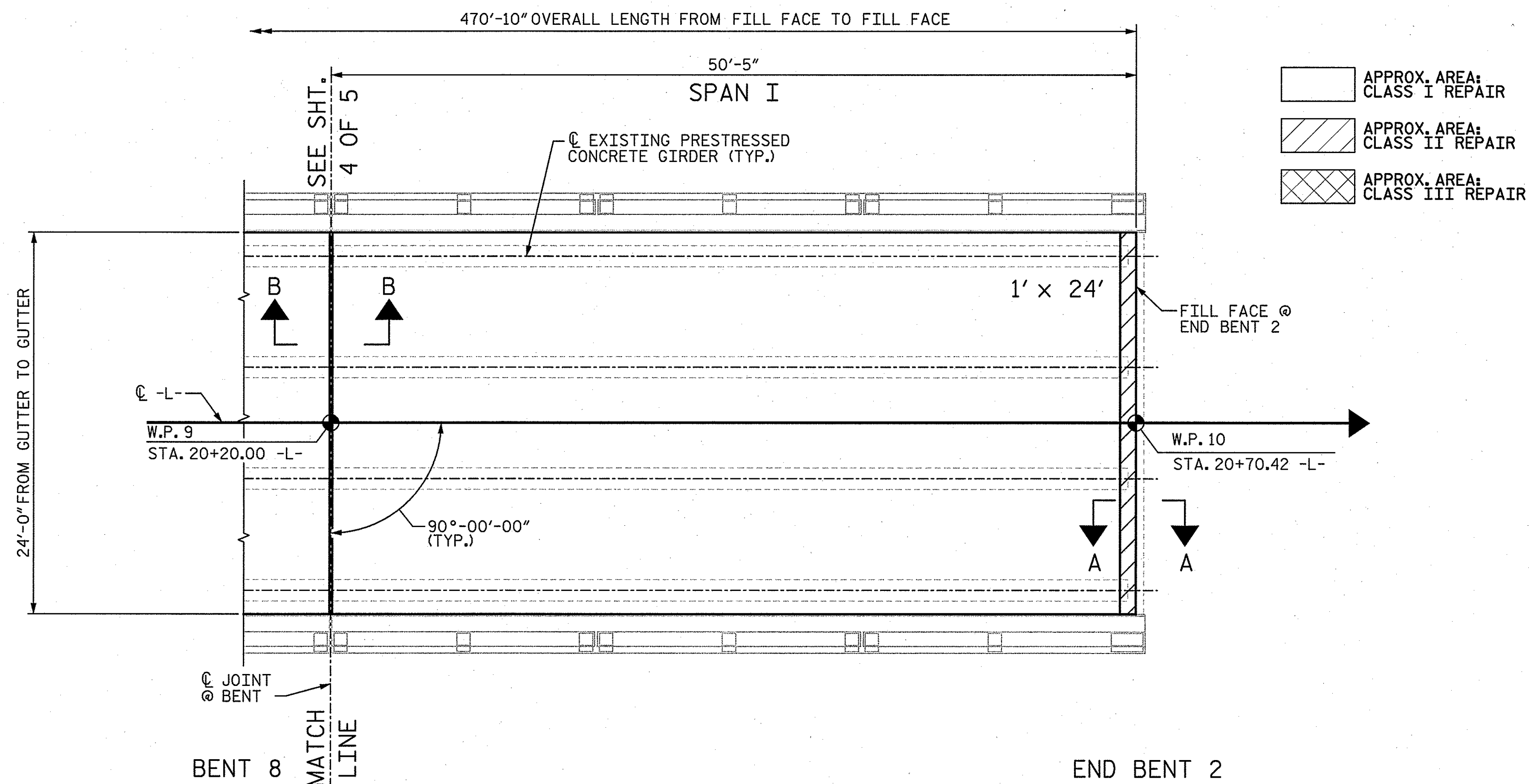
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APPROX. AREA:
CLASS I REPAIR

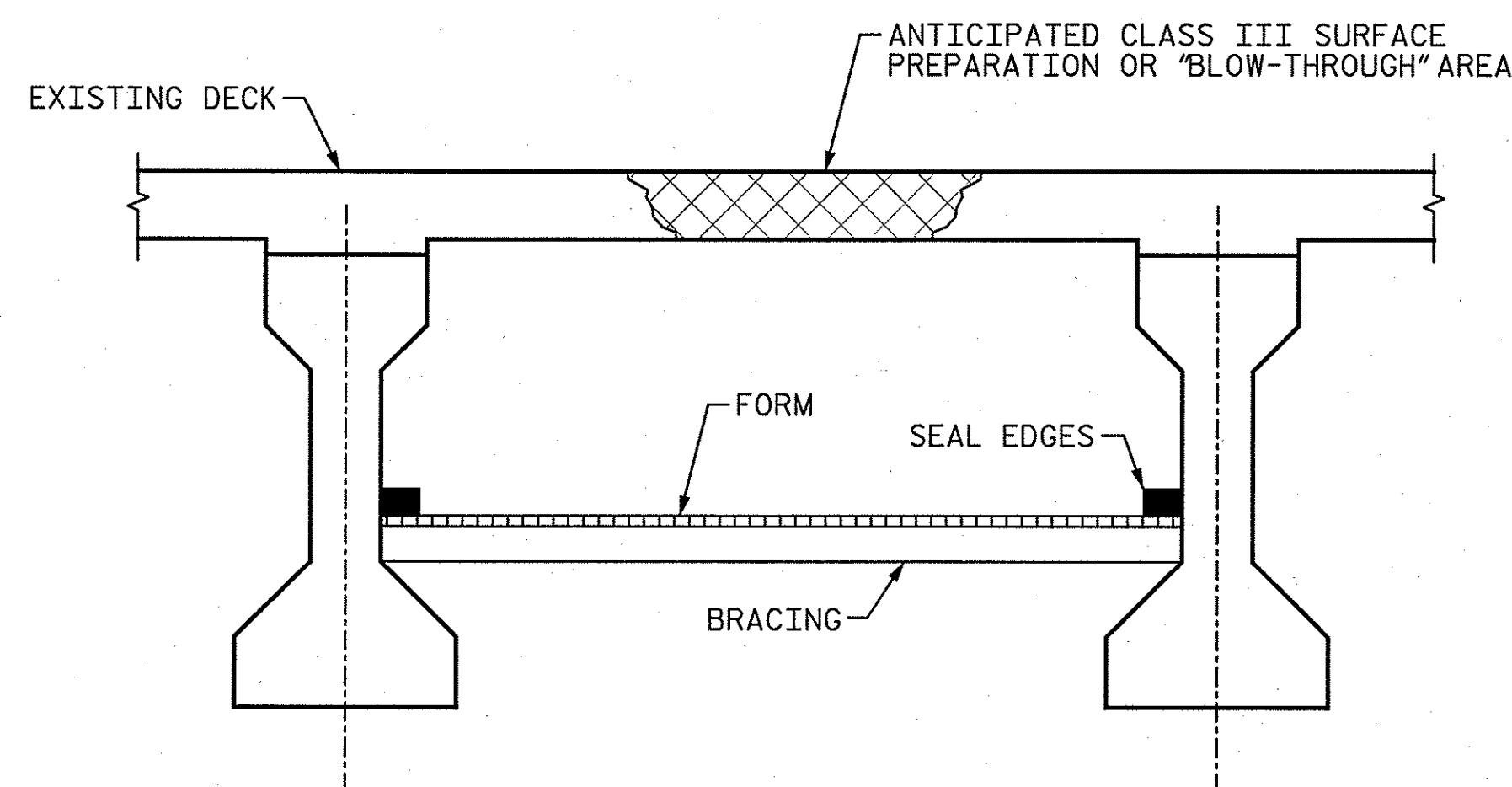
APPROX. AREA:
CLASS II REPAIR

APPROX. AREA:
CLASS III REPAIR

NOTE:
SEE NOTES ON SHEET 1 OF 5.

PARTIAL PLAN OF SPANS - DECK REPAIRS

SEE SHEET 2 OF 5 FOR SECTION A-A
SEE SHEET 3 OF 5 FOR SECTION B-B



TYP. "BLOW-THROUGH" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.

PROJECT NO. **BP-5300U**
WILKES COUNTY
STATION: **18+35.00 -L-**

SHEET 5 OF 5

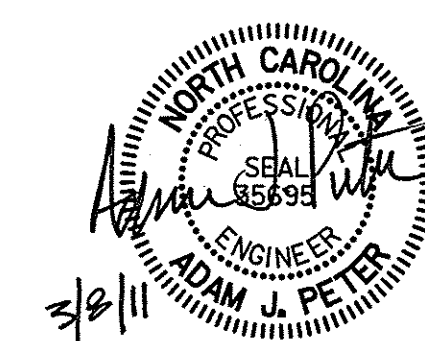
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS
DECK REPAIR
SPAN I

DECK REHAB BRIDGE NO. 191

REVISIONS						SHEET NO.
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CONTRACT: D000113

TIP PROJECT: BP-5300U

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
TRAFFIC CONTROL

WILKES COUNTY

STATE PROJECT REFERENCE NO.	SHEET NO.
BP-5300U	TCP-1



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS.
TCP-2	PROJECT NOTES AND CONSTRUCTION PHASING
TCP-3	BRIDGE 960191 OFFSITE DETOUR SIGNING AND ROAD CLOSURE SIGNING
TCP-4	BRIDGE 960050 OFFSITE DETOUR SIGNING AND ROAD CLOSURE SIGNING
TCP-5	BRIDGE 960068 LANE CLOSURE
TCP-6	WORKZONE ADVANCE WARNING SIGNS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. EXIST. PVMT.
- WORK AREA

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- CRYSTAL/CRYSTAL PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

PLAN REVIEWED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION	APPROVED: _____ DATE: _____	PLAN PREPARED FOR N.C.D.O.T. BY: STV/RALPH WHITEHEAD ASSOCIATES
_____ TRAFFIC CONTROL ENGINEER	SEAL 	JOSEPH A. FREEMAN, PE PROJECT ENGINEER
_____ TRAFFIC CONTROL PROJECT ENGINEER		KIT A. PERSIANI, PE DESIGN ENGINEER
_____ TRAFFIC CONTROL PROJ. DESIGN ENGINEER		MAAMOUN ABDELAZIZ DESIGN TECHNICIAN
_____ TRAFFIC CONTROL DESIGN ENGINEER/TECHNICIAN		

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 268 (BRIDGE 960068)	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERYDAY)

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
ALL ROADS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 P.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 268 (BRIDGE 960050)	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERYDAY)

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON NC 268 (BRIDGE 960068)..

TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- O) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- P) REPLACE PAVEMENT MARKINGS THAT WERE DAMAGED OR OBLITERATED FROM OVERLAY BY THE END OF EACH DAY'S OPERATION. REPLACE EXISTING PAVEMENT MARKINGS WITH 2 APPLICATIONS OF PAINT.

MISCELLANEOUS

- Q) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- R) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

PROJ. REFERENCE NO.	SHEET NO.
BP-5300U	TCP-2
STV / Ralph Whitehead Associates, Inc. 1000 West Morehead St., Ste. 200 Charlotte, NC 28208 NC License Number F-0991	

PHASING NOTES

BRIDGE 960191-ROARING RIVER RD. (SR 2327) OVER YADKIN RIVER

STEP 1: PRIOR TO ANY CONSTRUCTION, INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH TCP-6 AND PLACE TYPE III BARRICADES FOR A TEMPORARY ROAD CLOSURE.

INSTALL DETOUR SIGNS FOR OFFSITE DETOUR, IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DRAWINGS 1101.03 AND TCP-3, ON ROARING RIVER RD. (SR 2327) BY UTILIZING THE FOLLOWING ROADS: OLD NC HWY. 60 (SR 2318/SR 2321), OLD 60 HWY./CLINGMAN RD. (SR 2303) AND NC HWY. 268 (ELKIN HWY.). COVER SIGNS PRIOR TO DETOUR USE.

COMPLETE ALL WORK ON BRIDGE 960191, STEP 2 WITHIN 10 CALENDAR DAYS FROM 6 AM FRIDAY TO 6AM MONDAY (SEE ICT AND LD'S)

STEP 2: AWAY FROM TRAFFIC, WITH OFFSITE DETOUR IN PLACE (SEE TCP-3) COMPLETE THE PROPOSED BRIDGE DECK PRESERVATION IN STAGES.

STEP 3: UPON COMPLETION, REMOVE ALL DETOUR SIGNS, ADVANCE WARNING SIGNS, AND TRAFFIC CONTROL DEVICES. OPEN ROADWAY BACK TO TRAFFIC.

BRIDGE 960050-NC 268 OVER YADKIN RIVER

STEP 1: PRIOR TO ANY CONSTRUCTION, INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH TCP-6 AND PLACE TYPE III BARRICADES FOR A TEMPORARY NIGHTTIME ROAD CLOSURE.

INSTALL DETOUR SIGNS FOR OFFSITE DETOUR, IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DRAWINGS 1101.03 AND TCP-4, ON NC 268 BY UTILIZING THE FOLLOWING ROADS: SR 1133, BEAVER CREEK RD. (SR 1130 AND SR 1132), NC HWY. 18 AND GRANDIN RD. (SR 1552). COVER SIGNS PRIOR TO DETOUR USE.

STEP 2: AWAY FROM TRAFFIC, WITH OFFSITE DETOUR IN PLACE (SEE TCP-4) AND WORKING DURING CONSECUTIVE NIGHTTIME CLOSURES COMPLETE THE PROPOSED BRIDGE DECK PRESERVATION IN STAGES.

STEP 3: UPON COMPLETION, REMOVE ALL DETOUR SIGNS, ADVANCE WARNING SIGNS, AND TRAFFIC CONTROL DEVICES. OPEN ROADWAY BACK TO TRAFFIC.

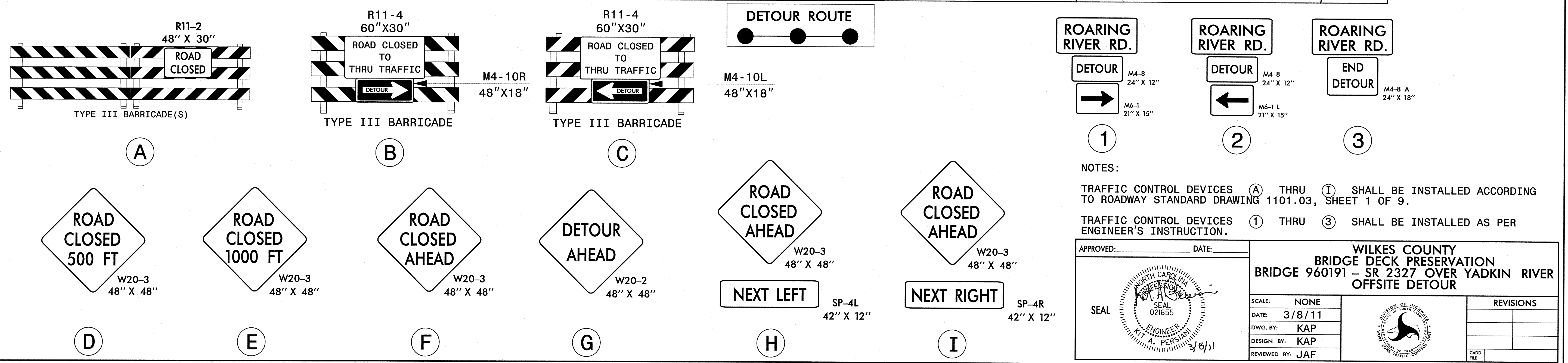
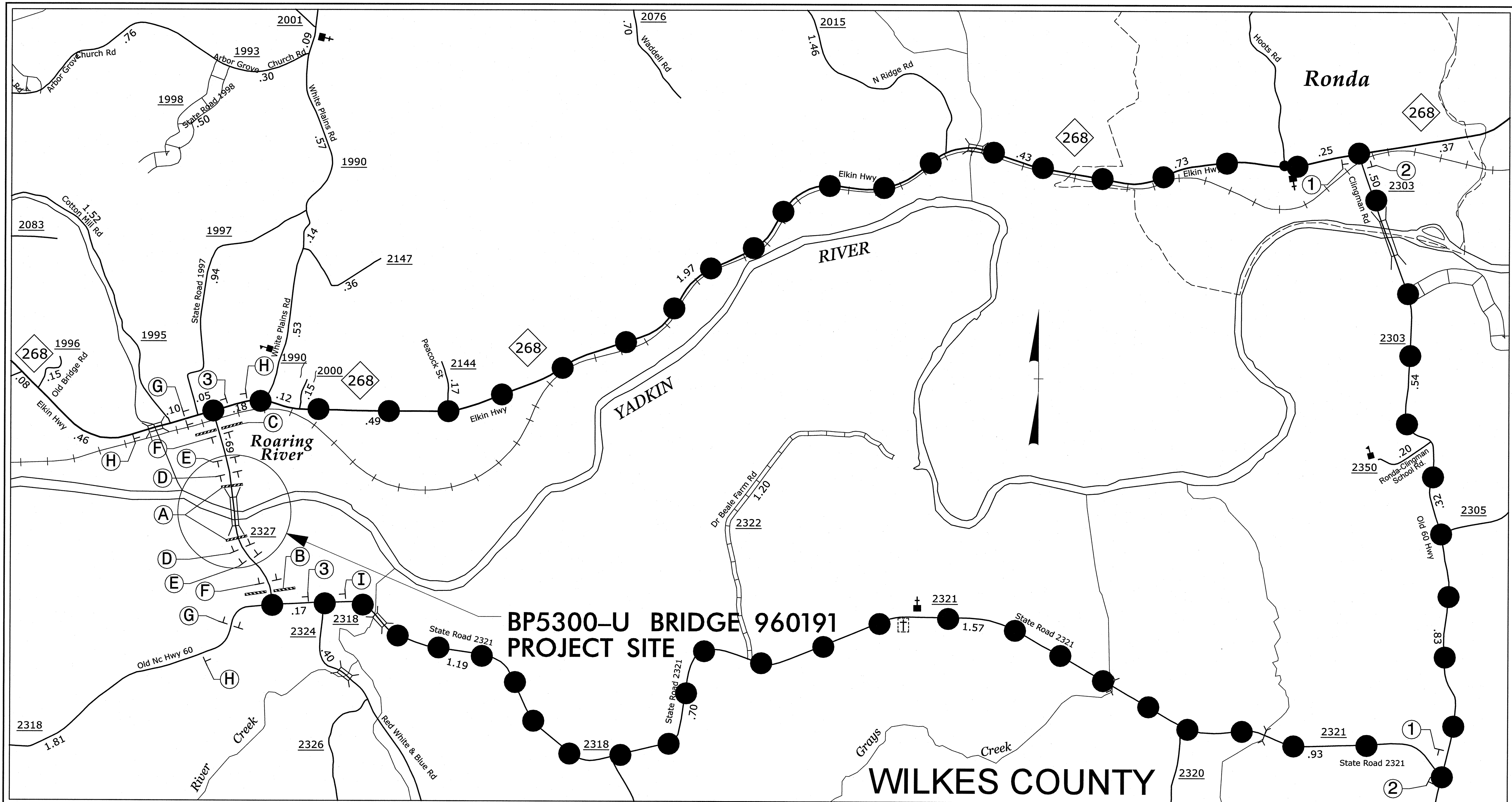
BRIDGE 960068-NC 268 OVER WARRIOR CREEK

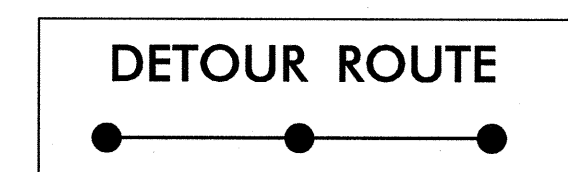
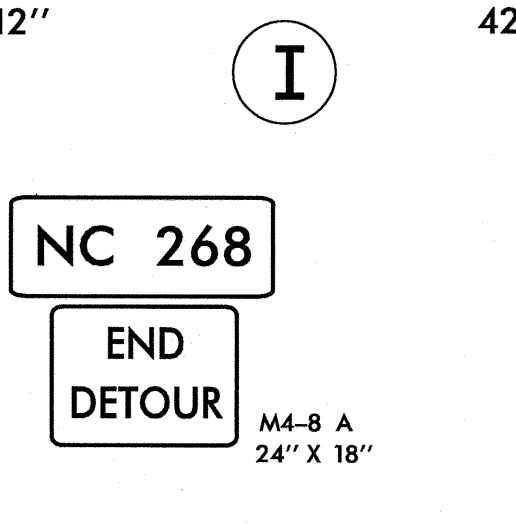
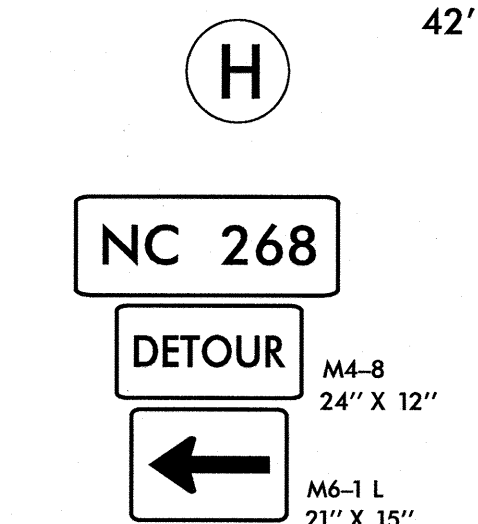
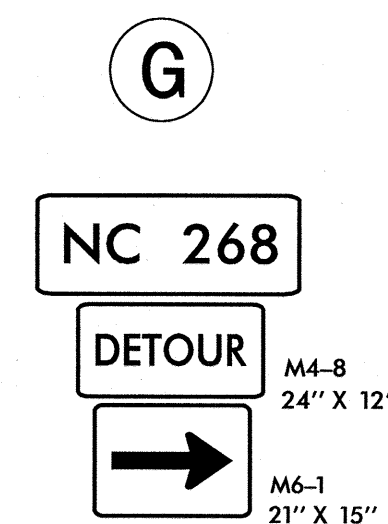
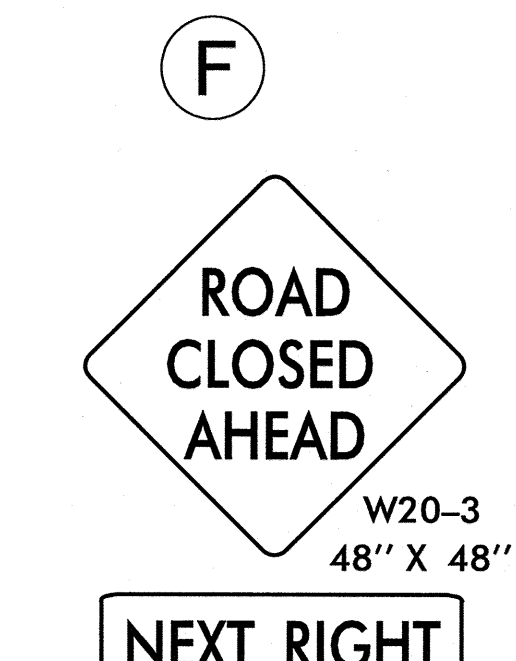
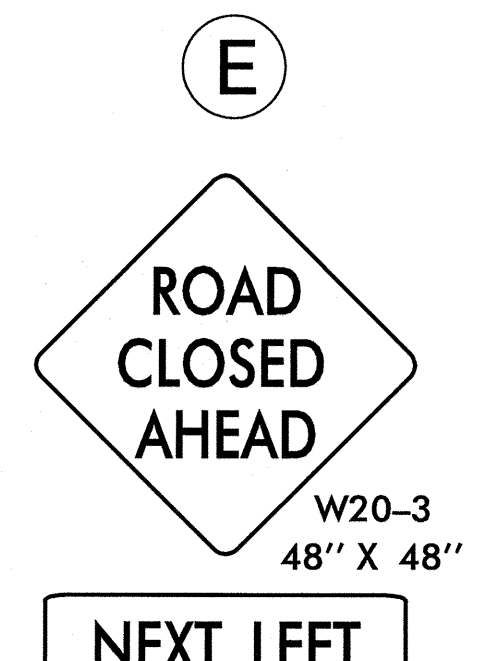
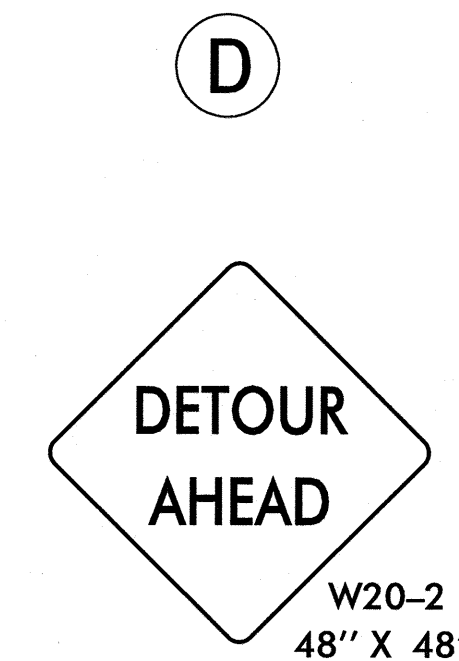
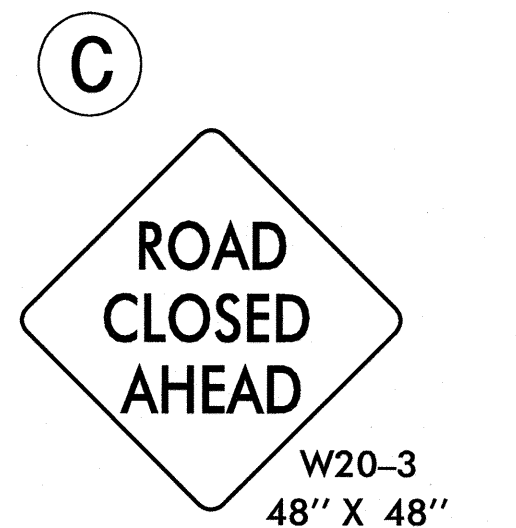
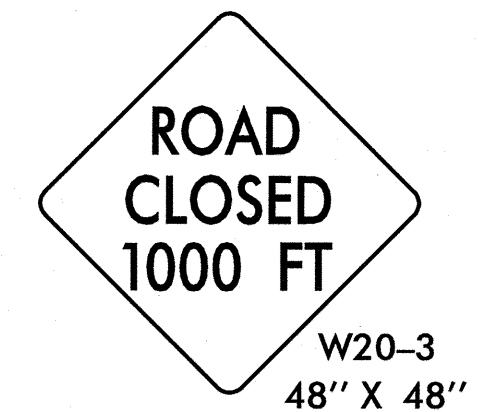
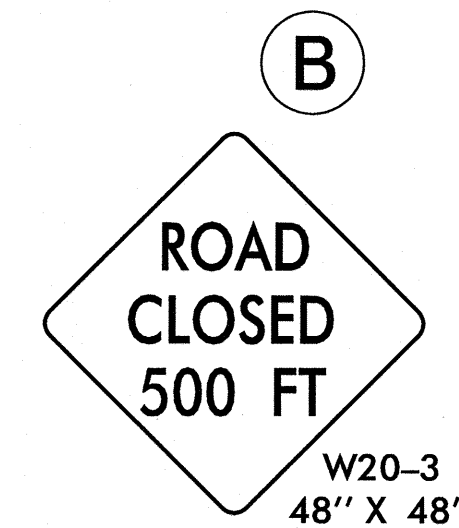
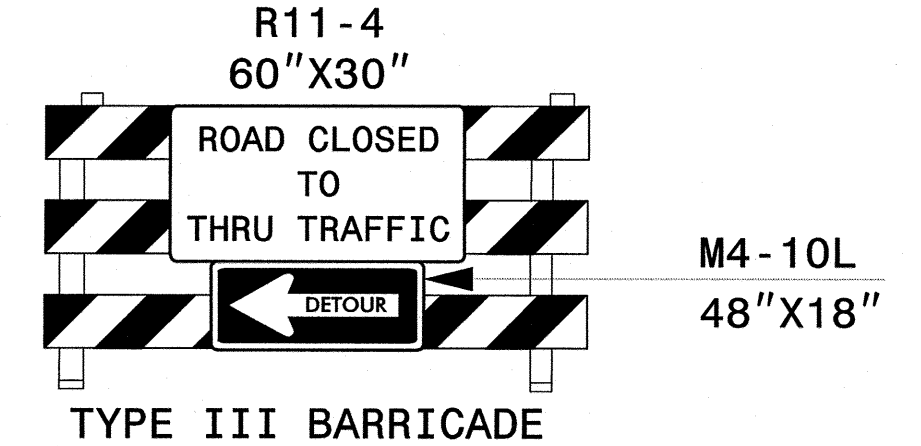
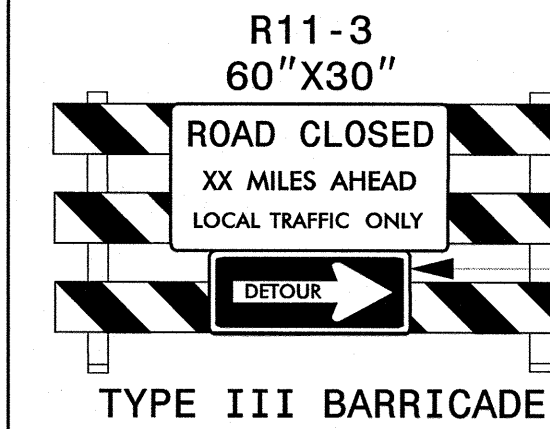
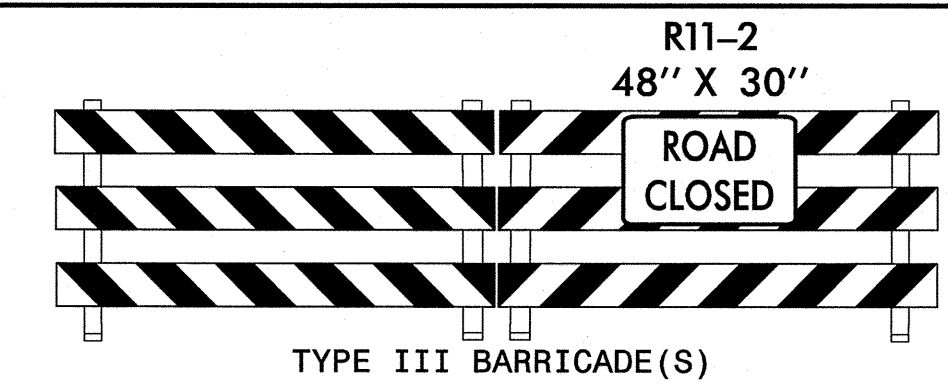
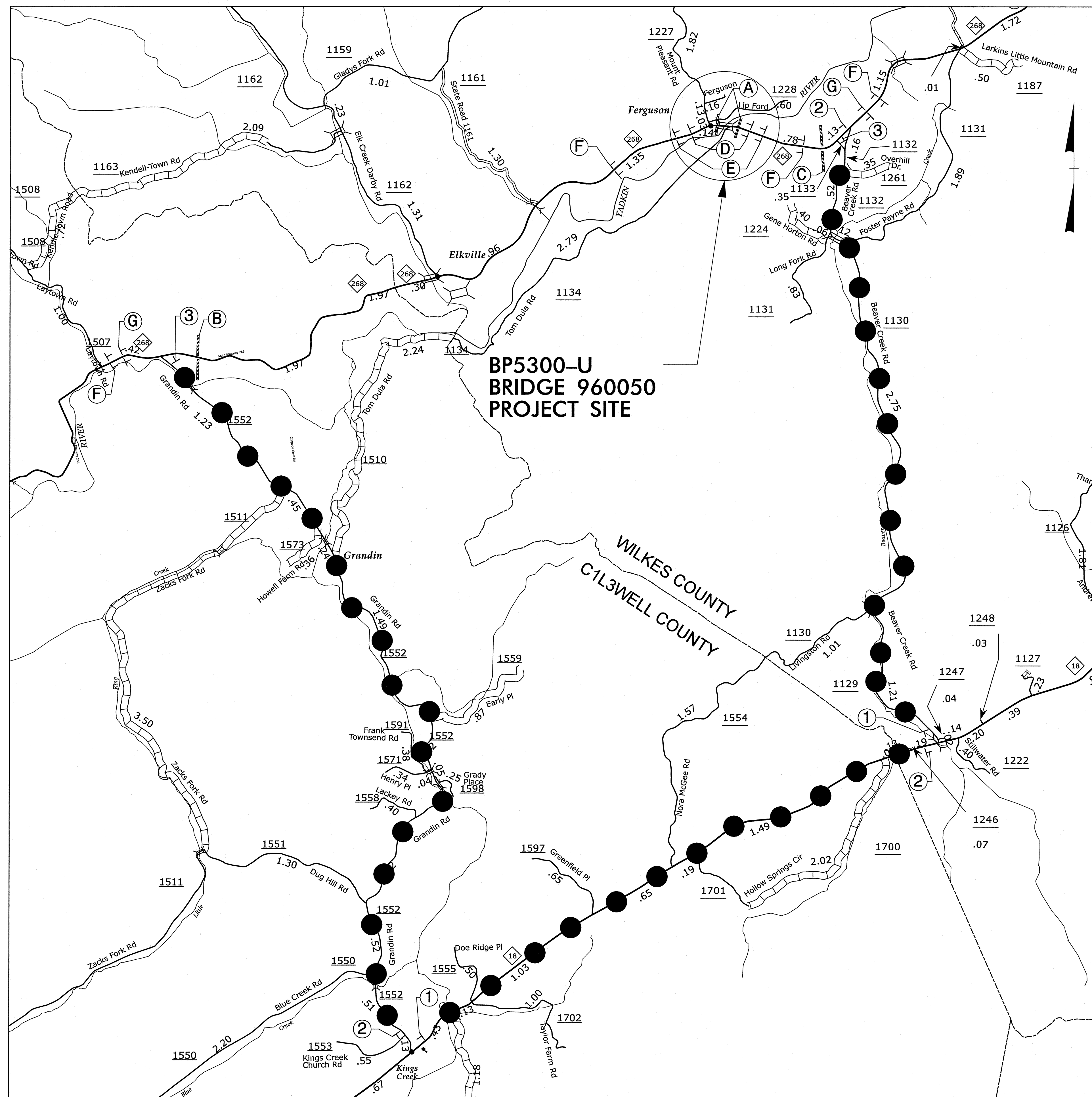
STEP 1: PRIOR TO ANY CONSTRUCTION, INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH TCP-6.

STEP 2: SET UP A TEMPORARY NIGHTTIME LANE CLOSURE USING NCDOT ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9. WITH LANE CLOSURE IN PLACE AND WORKING DURING CONSECUTIVE NIGHTTIME LANE CLOSURES COMPLETE THE PROPOSED BRIDGE DECK PRESERVATION IN STAGES (SEE TCP-5).

STEP 3: UPON COMPLETION OF EACH EVENING'S CONSTRUCTION, REMOVE AND/OR COVER ALL SIGNS, ADVANCE WARNING SIGNS, AND TRAFFIC CONTROL DEVICES. OPEN ROADWAY TO ITS NORMAL TRAFFIC PATTERN.

APPROVED: _____ DATE: _____		PROJECT NOTES		
SEAL 3/8/11		SCALE: NONE		REVISIONS
		DATE: 3/8/11		
		DWG. BY: KAP		
		DESIGN BY: KAP		
		REVIEWED BY: JAF		CADD FILE

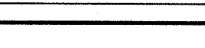


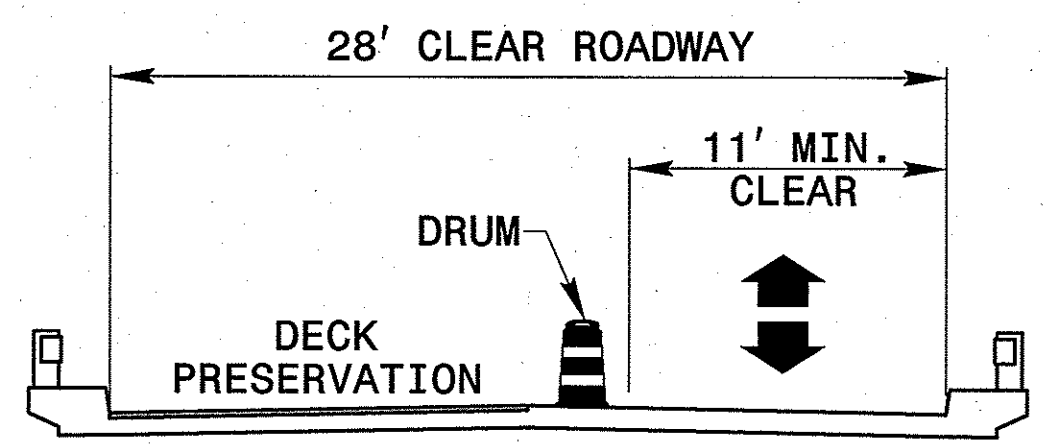
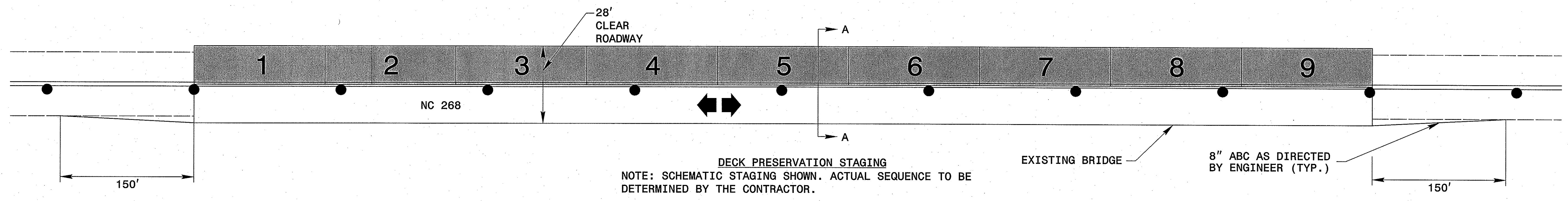


NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (I) SHALL BE INSTALLED ACCORDING
TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.

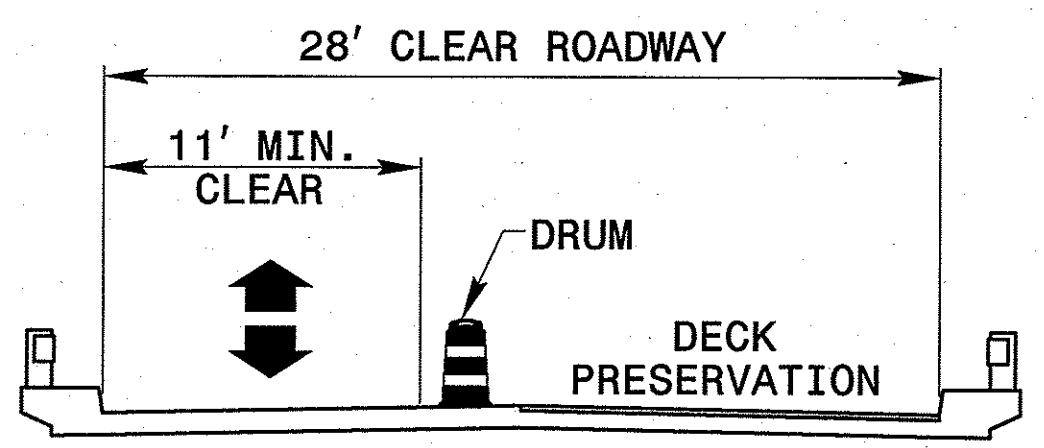
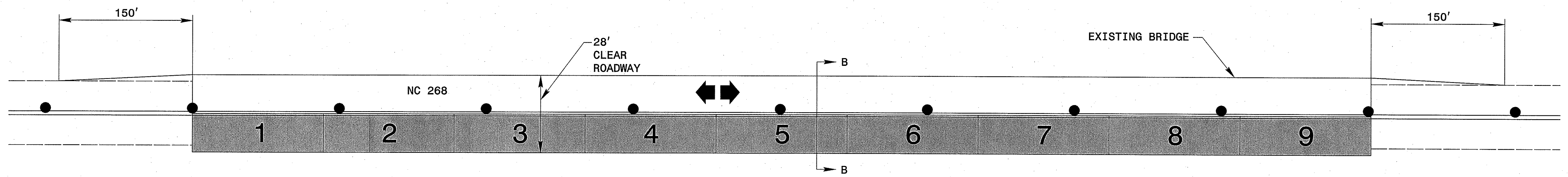
TRAFFIC CONTROL DEVICES ① THRU ③ SHALL BE INSTALLED AS PER
ENGINEER'S INSTRUCTION.

APPROVED: _____	DATE: _____	WILKES COUNTY BRIDGE DECK PRESERVATION BRIDGE 960050 – NC 268 OVER YADKIN RIVER OFFSITE DETOUR																
 SEAL 021655 ENGINEER K.T. PERSIAN 3/6/11	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE: NONE</td> <td rowspan="5" style="width: 50%; text-align: center; vertical-align: middle;">  </td> </tr> <tr> <td>DATE: 3/8/11</td> </tr> <tr> <td>DWG. BY: KAP</td> </tr> <tr> <td>DESIGN BY: KAP</td> </tr> <tr> <td>REVIEWED BY: JAF</td> </tr> </table>	SCALE: NONE		DATE: 3/8/11	DWG. BY: KAP	DESIGN BY: KAP	REVIEWED BY: JAF	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">REVISIONS</th> </tr> <tr> <td style="width: 50%; height: 30px;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="height: 30px;"></td> <td></td> </tr> <tr> <td style="height: 30px;"></td> <td></td> </tr> <tr> <td style="height: 30px;"></td> <td></td> </tr> </table>	REVISIONS									
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TYPICAL SECTION AT BRIDGE A-A

BRIDGE DECK PRESERVATION-STAGE 1

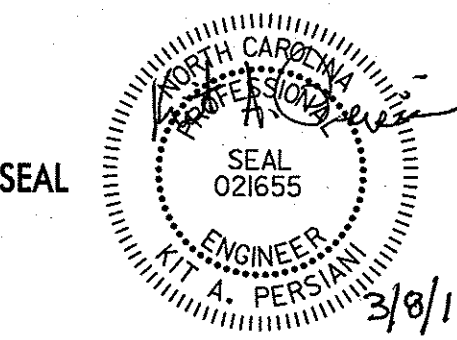


TYPICAL SECTION AT BRIDGE B-B

BRIDGE DECK PRESERVATION-STAGE 2

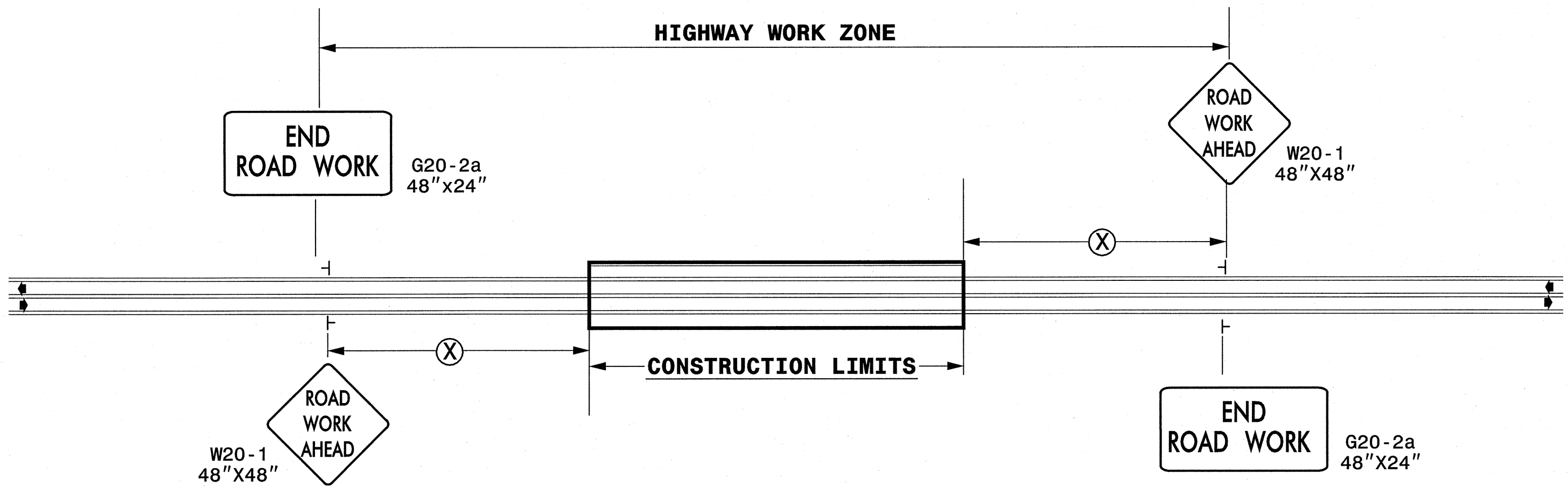
- NOTES:
1. DECK PRESERVATION SHALL BE PERFORMED IN ONE LANE AND OF SUFFICIENT LENGTH SUCH THAT BOTH LANES WILL BE OPEN TO TRAFFIC BY 6:00 AM THE FOLLOWING MORNING.
 2. PROVIDE 8" ABC AT BRIDGE ENDS AS DIRECTED BY ENGINEER. ALL WORK RELATED TO SUPPLYING AND INSTALLING STONE SHALL BE CONSIDERED INCIDENTAL. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
 3. PROVIDE TEMPORARY LANE CLOSURE IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DRAWING 1101.02.

LEGEND	
	DRUM, SKINNY DRUM OR CONE
	DIRECTION OF TRAFFIC FLOW
	PROPOSED STAGING AREAS

APPROVED:	DATE:	WILKES COUNTY BRIDGE DECK PRESERVATION BRIDGE 960068 - NC 268 OVER WARRIOR CREEK NIGHTTIME LANE CLOSURE		
	SCALE: NONE			REVISIONS
	DATE: 3/8/11			
	DWG. BY: KAP			
	DESIGN BY: KAP			
REVIEWED BY: JAF				

3/8/2011
R:\TrafficControl\TCP\BP5300U.TC.tcp5.dgn
KAP:sign

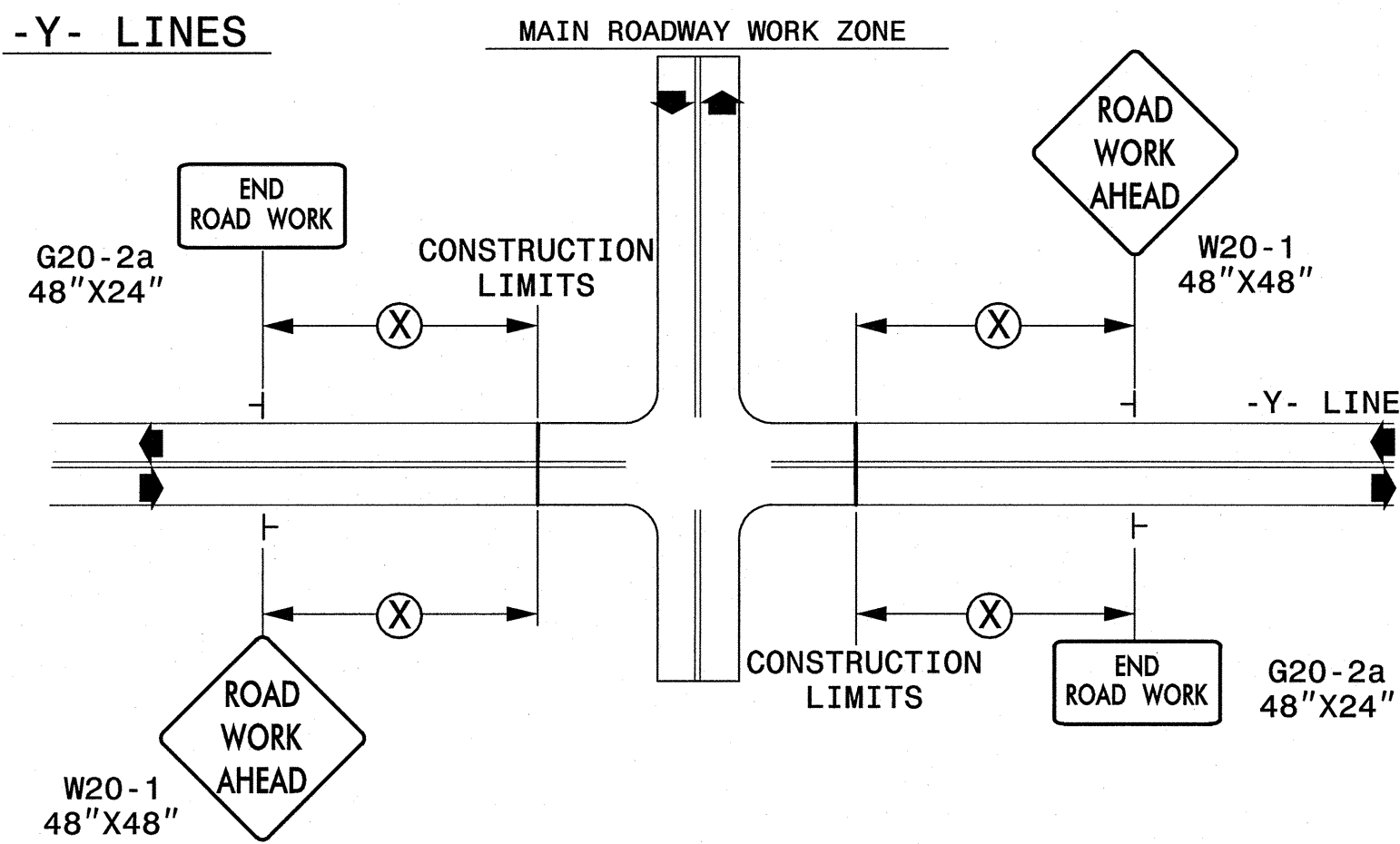
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

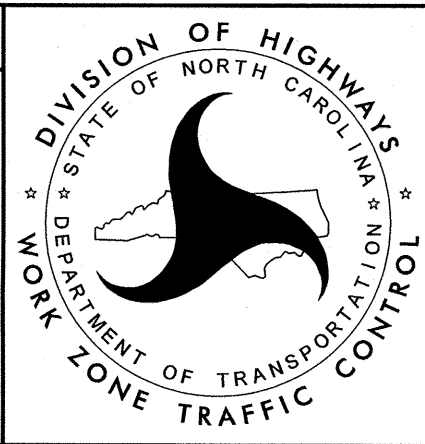
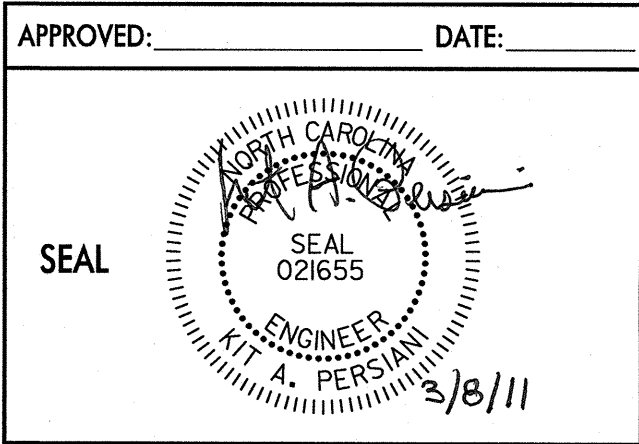
GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- └ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1



DETAIL DRAWING FOR TWO-WAY
UNDIVIDED AND URBAN FREEWAYS
WORK ZONE WARNING SIGNS