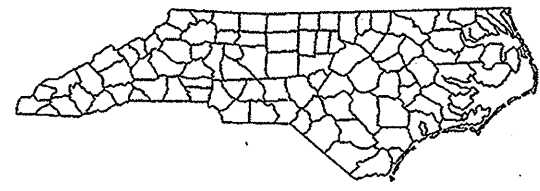


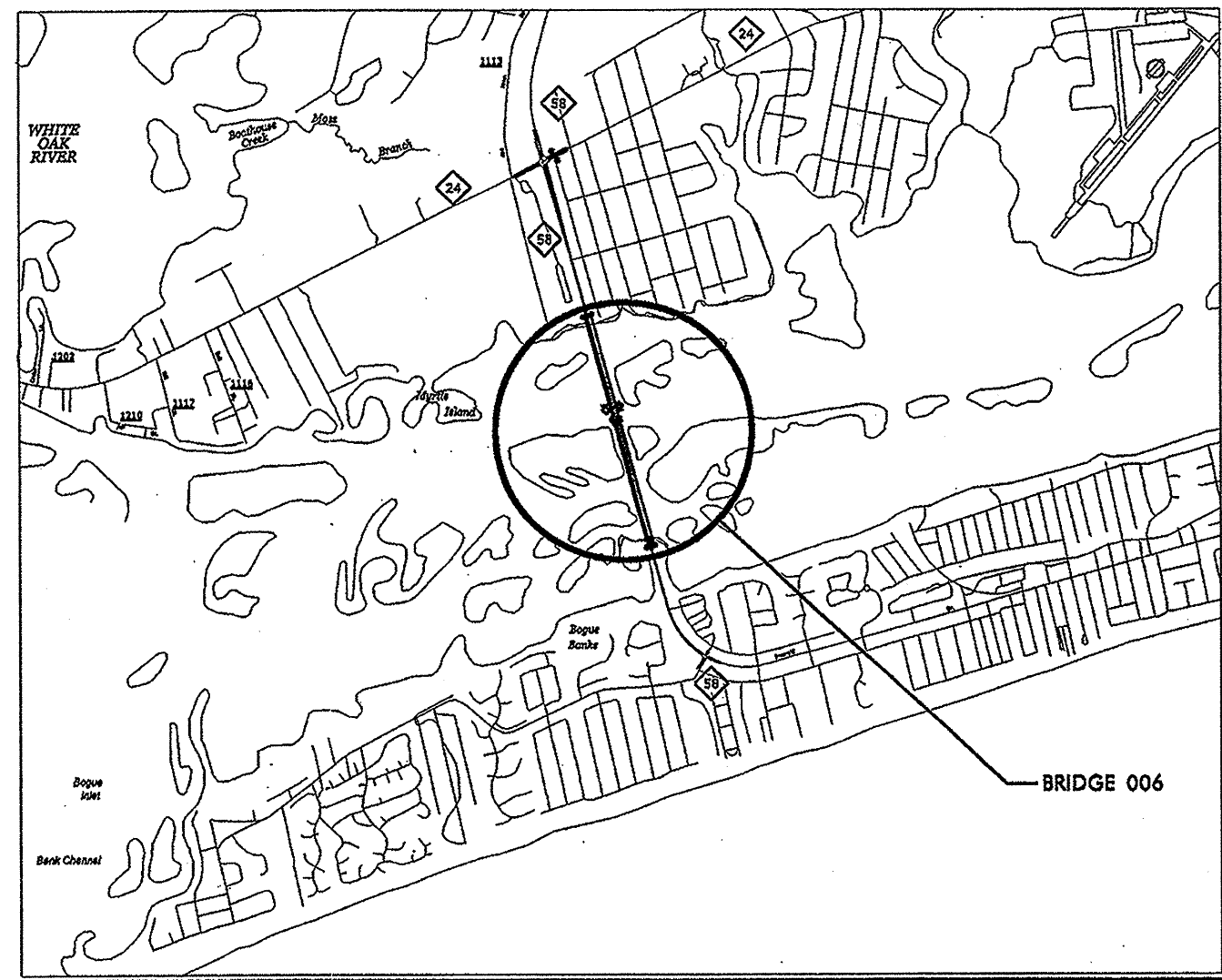
CONTRACT: C203122 **TIP PROJECT: 17BP.2.P.16**



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CARTERET COUNTY

LOCATION: CARTERET CO. - BRIDGE 6 ON NC 58 OVER INTRACOASTAL WATERWAY
 TYPE OF WORK: BRIDGE DECK PRESERVATION; LATEX MODIFIED CONCRETE OVERLAY



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 17BP.2.P.16	1	
WBS NO.	F.A. PROJECT	DESCRIPTION	
17BP.2.P.16		PE	
17BP.2.P.16		CONST.	

DESIGN DATA
ADT 2008 =15,000

PROJECT LENGTH

PREPARED IN THE OFFICE OF:
 [Logo] **Stantec**
 FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 2012 STANDARD SPECIFICATIONS
 RIGHT OF WAY DATE: N.A.
 LETTING DATE: AUGUST 21, 2012
 NCDOT CONTACT: RICK NELSON, PE
 BRIDGE MANAGEMENT PROJECT MANAGER

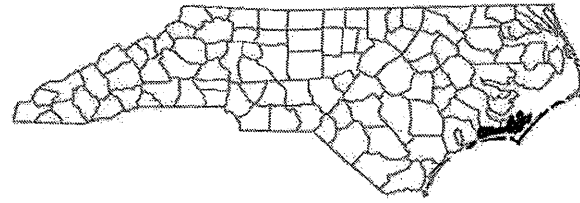
[Signature]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

U:\Structures\Bridges\Group 2011\WBS 17BP.2.P.16 Carteret Co. 16\TISH\006_Ten.Overlay_LA.409

TIP PROJECT: 17BP.2.P.16

CONTRACT: C203122



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CARTERET COUNTY

LOCATION: CARTERET CO. - BRIDGE 6 ON NC 58 OVER INTRACOASTAL WATERWAY
TYPE OF WORK: BRIDGE DECK PRESERVATION: LATEX MODIFIED CONCRETE OVERLAY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 17BP.2.P.16	1A	
WBS NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.2.P.16		PE	
17BP.2.P.16		CONST.	

INDEX OF SHEETS

DWG.	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS
2	SUMMARY OF QUANTITIES
S-1 THRU S-29	BRIDGE DECK REPAIR & JOINT MODIFICATIONS
TMP-1 THRU TMP-6A	TRANSPORTATION MANAGEMENT PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 17BP.2.P.16	2	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203122

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
1330000000-E	607	378	SY	INCIDENTAL MILLING
1523000000-E	610	30	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
1575000000-E	620	2	TON	ASPHALT BINDER FOR PLANT MIX
4400000000-E	1110	98	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	208	SF	WORK ZONE SIGNS (PORTABLE)
4420000000-N	1120	2	EA	PORTABLE CHANGEABLE MESSAGE SIGN
4430000000-N	1130	200	EA	DRUMS
4435000000-N	1135	96	EA	CONES
4450000000-N	1150	384	HR	FLAGGER
4480000000-N	1165	1	EA	TMA
4510000000-N	SP	192	HR	LAW ENFORCEMENT
4600000000-N	SP	1	EA	GENERIC TRAFFIC CONTROL ITEM PORTABLE TRAFFIC SIGNAL SYSTEM
4770000000-E	1205	16,000	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)
4795000000-E	1205	48	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (24") (IV)
4847000000-E	1205	13,100	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (STANDARD GLASS BEADS)
4900000000-N	1251	60	EA	PERMANENT RAISED PAVEMENT MARKERS
8161000000-E	420	141,568	SF	GROOVING BRIDGE FLOORS
8217000000-E	425	810	LB	REINFORCING STEEL (BRIDGE)
8692000000-N	SP	Lump Sum		FOAM JOINT SEALS
8699000000-N	SP	Lump Sum		STRIP SEALS
8860000000-N	SP	Lump Sum		GENERIC STRUCTURE ITEM PARTIAL REMOVAL OF EXISTING STRUCTURE
8881000000-E	SP	61	CY	GENERIC STRUCTURE ITEM CONCRETE FOR DECK REPAIR

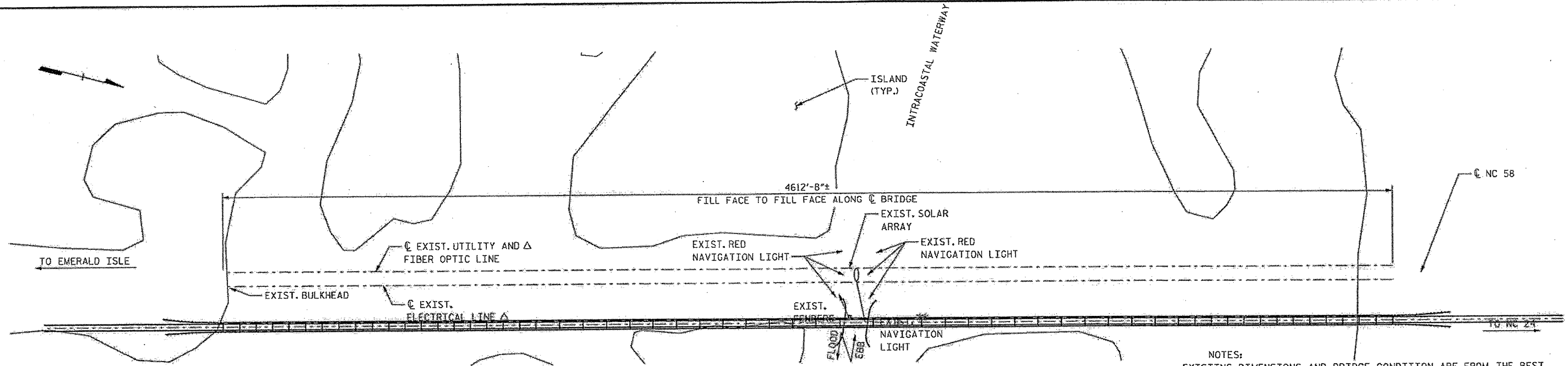
ItemNumber	Sec #	Quantity	Unit	Description
8881000000-E	SP	832	CY	GENERIC STRUCTURE ITEM LATEX MODIFIED CONC OVERLAY - VERY EARLY STRENGTH
8892000000-E	SP	2,244	SF	GENERIC STRUCTURE ITEM REINFORCED CONCRETE DECK SLAB
8893000000-E	SP	17,178	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
8893000000-E	SP	17,178	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONCRETE OVERLAY - VERY EARLY STRENGTH
8893000000-E	SP	17,178	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK

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TIP PROJECT: 17BP.2.P.16

CONTRACT: C203122

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 2011\WBS 17BP.2.P16 Carteret Co "6.18"Bridge 006.Dwg\BPS006.LS.BDM.dgn



Δ LOCATIONS OF EXISTING UTILITIES EXAGGERATED FOR CLARITY. UTILITIES HUNG FROM DECK SLAB CANTILEVERS. (SEE TYPICAL SECTIONS FOR DETAILS.)
 * FOR LOCATION OF EXIST. NAVIGATION LIGHTS, SEE "PLAN OF BRIDGE SPANS FF,GG,HH".

BRIDGE 6 ON NC 58
 LOCATION: BRIDGE 150006, NC 58 OVER INTRACOASTAL WATERWAY
 1.2 MI. SOUTH OF JUNCTION WITH NC 24

NOTES:
 EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL, STATE AND FEDERAL SAFETY REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

ROADWAY SCARIFICATION IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SCARIFY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

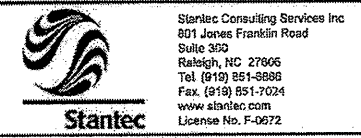
- FOR FOAM JOINT SEALS, SEE SPECIAL PROVISIONS.
- FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR STRIP SEALS, SEE SPECIAL PROVISIONS.
- FOR ADHESIVELY ANCHORED BOLTS OR DOWELS, SEE SPECIAL PROVISIONS.
- FOR HIGH PERFORMANCE VOLUMETRIC CONCRETE MIXERS, SEE SPECIAL PROVISIONS.
- FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

INCIDENTAL MILLING	ASPHALT CONC. SURF. COURSE TYPE S9.5C	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	REINFORCING STEEL	CLASS AA * CONCRETE	CLASS I * SURFACE PREPARATION	CLASS II * SURFACE PREPARATION	CLASS III * SURFACE PREPARATION	FOAM JOINT SEALS	STRIP SEALS	PARTIAL REMOVAL OF EXISTING STRUCTURE	CONCRETE FOR DECK REPAIR	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	HYDRO-DEMOLITION OF BRIDGE DECK	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	SCARIFYING BRIDGE DECK
SQ.YDS.	TON	SO.FT.	SO.FT.	LBS.	CU.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	LUMP SUM	LUMP SUM	LUMP SUM	CU. YDS.	CU.YDS.	SO.YDS.	SO.YDS.	SO.YDS.
378	30	2,244	141,568	810	0	0	63	0	LUMP SUM	LUMP SUM	LUMP SUM	61	832	17,178	17,178	17,178

* QUANTITIES ARE ESTIMATES FROM BEST AVAILABLE DATA, AND SHOULD BE CONSIDERED FOR INFORMATION PURPOSES ONLY. IF ANY CLASS III LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE TYP. "BLOW THRU" CONTAINMENT AND FORMWORK DETAIL. NO SEPARATE MEASUREMENT OR PAYMENT FOR THESE ITEMS WILL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph H. King
 SEAL 13406
 ENGINEER

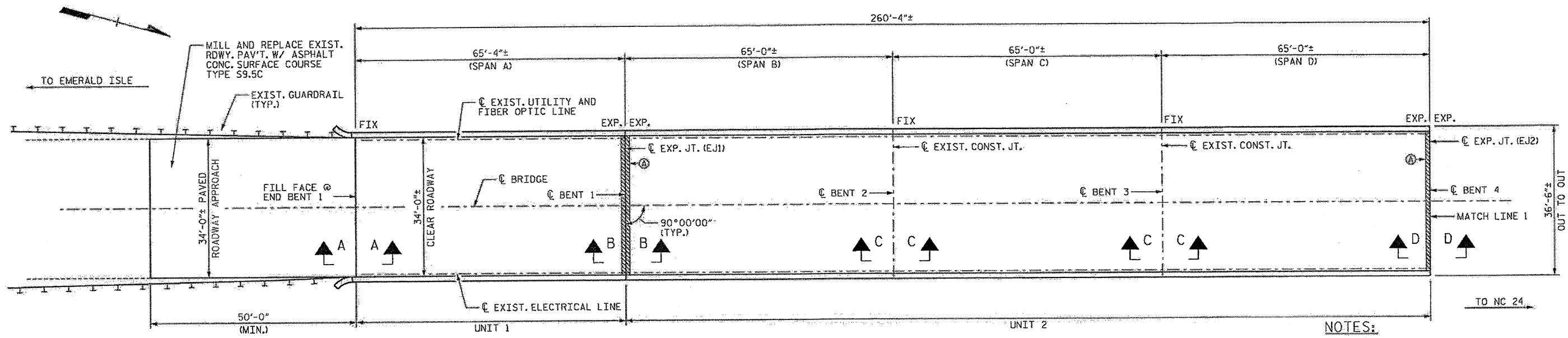
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

LOCATION SKETCH AND TOTAL BILL OF MATERIAL

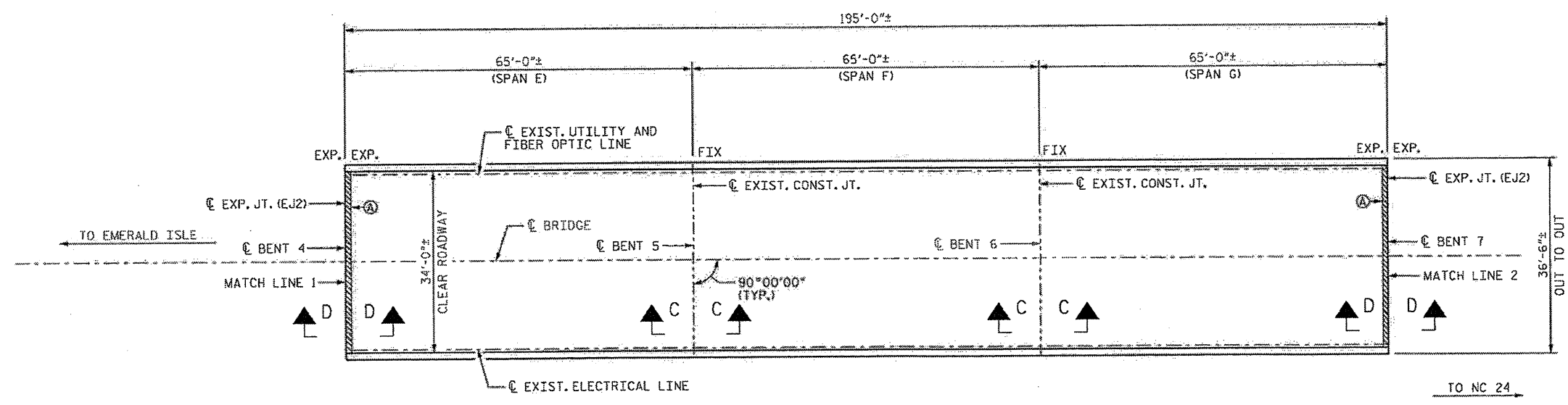
DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS 29
2			4			

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PLAN VIEW OF SPANS A,B,C,D (UNITS 1 & 2)
NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS E,F,G (UNIT 3)
NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

NOTES:

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE. 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 BOUNDARIES OF 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, SH. S-12.

LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.

FOR LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

FOR SECTION A-A, C-C AND E-E SEE SH. S-12.

FOR SECTION B-B AND F-F, SEE SH. S-25.

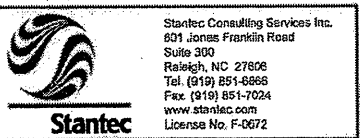
FOR SECTION D-D, SEE SH. S-27.

JOINT SEAL SUMMARY:

EJ1 2 REQ'D
EJ2 18 REQ'D
EJ3 2 REQ'D

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph J. Keating
SEAL 13406
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
EXPIRES 12/31/2012

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

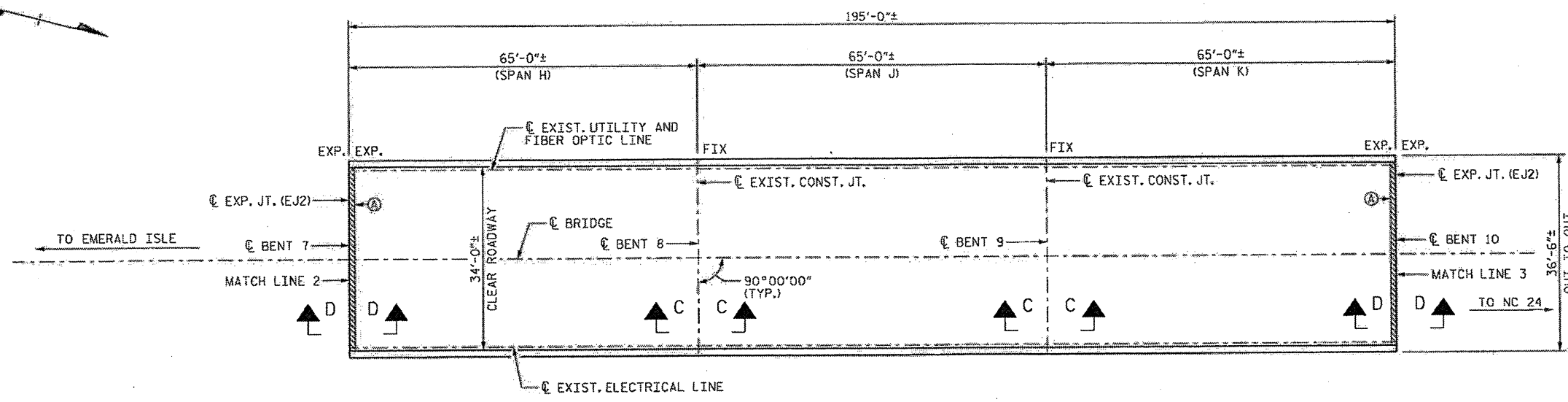
PLAN OF BRIDGE
SPANS A,B,C,D
AND SPANS E,F,G

DECK REHAB. FOR BRIDGE NO. 6

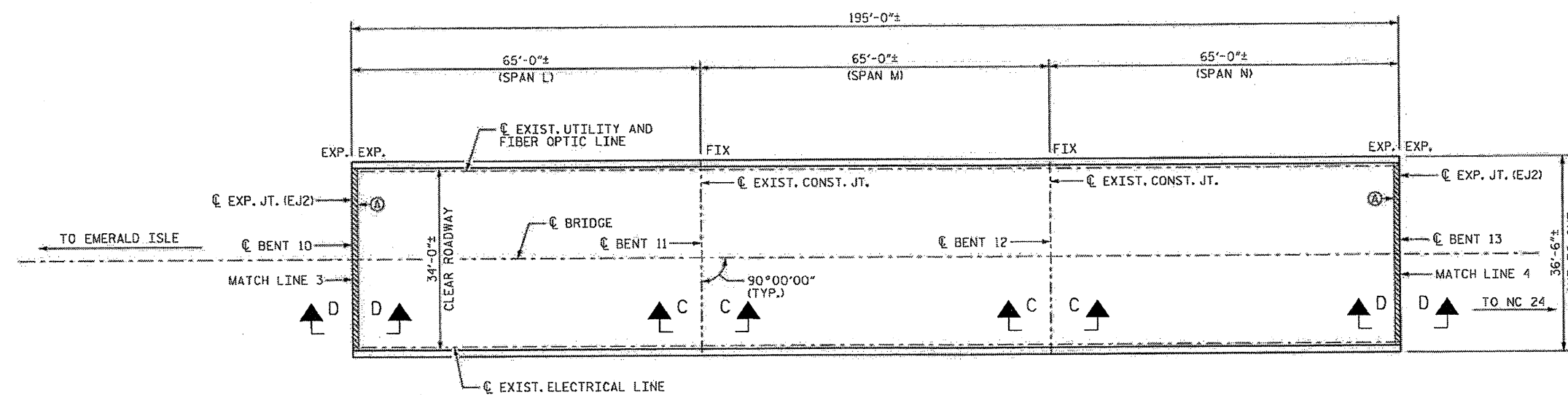
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NO.	BY:	DATE:	NO.	DATE:
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S-2
TOTAL SHEETS
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PLAN VIEW OF SPANS H,J,K (UNIT 4)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.




PLAN VIEW OF SPANS L,M,N (UNIT 5)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.


 Stantec Consulting Services Inc.
 801 Jones Franklin Road
 Suite 300
 Raleigh, NC 27606
 Tel. (919) 651-6969
 Fax. (919) 651-7024
 www.stantec.com
 License No. F-0972

DRAWN BY : J. L. HENNEKES DATE : 03-30-12
 CHECKED BY : S. S. YUEN DATE : 03-30-12

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

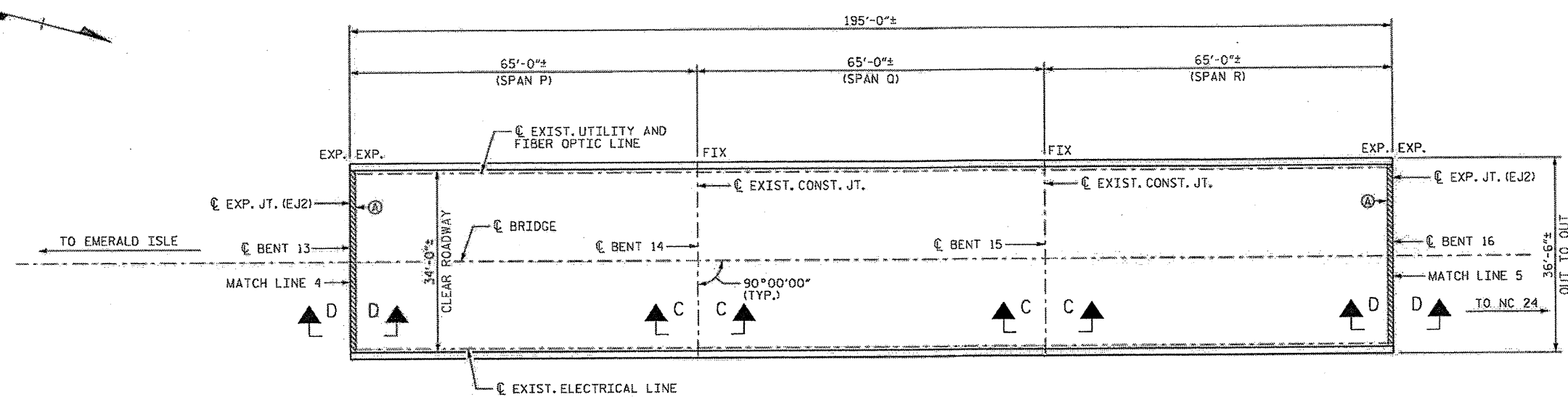
Joseph J. Livingston
 03/22/12


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN OF BRIDGE
 SPANS H,J,K
 AND SPANS L,M,N
 DECK REHAB. FOR BRIDGE NO. 6

REVISIONS				SHEET NO.
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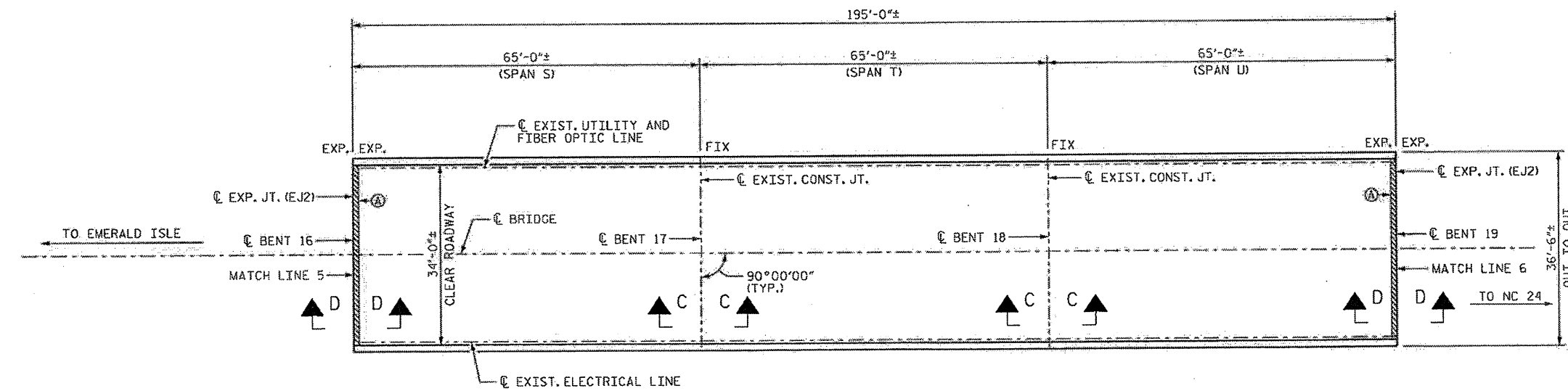
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PLAN VIEW OF SPANS P,Q,R (UNIT 6)

NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS S,T,U (UNIT 7)

NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

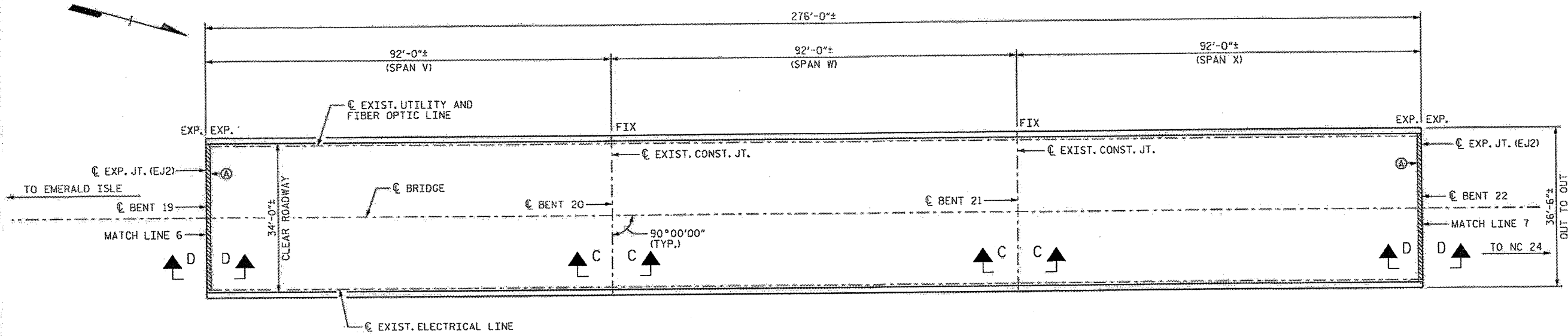


DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

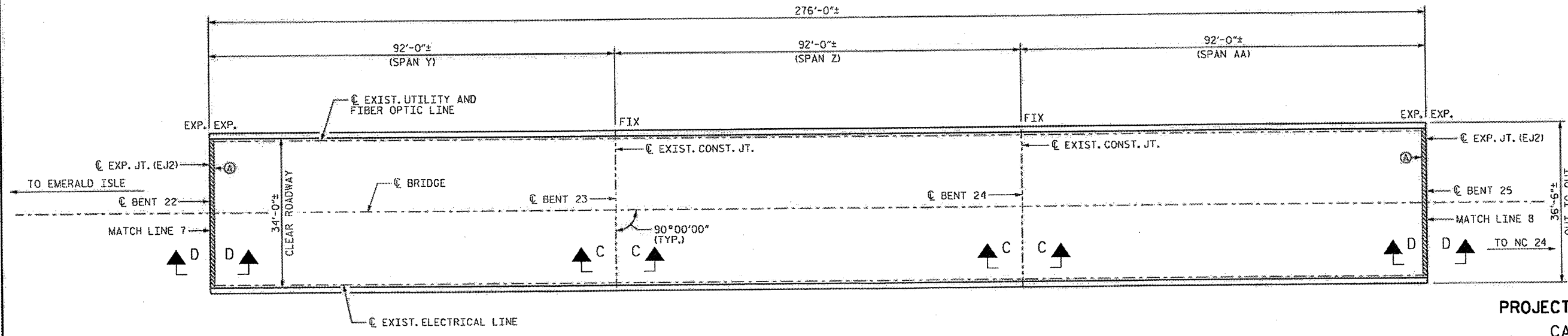
Joseph K. Kingston
 5/22/12
 PROFESSIONAL ENGINEER
 SEAL 13406
 NORTH CAROLINA
 EXPIRES 12/31/2015

STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
PLAN OF BRIDGE SPANS P,Q,R AND SPANS S,T,U					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					S-4
TOTAL SHEETS					29

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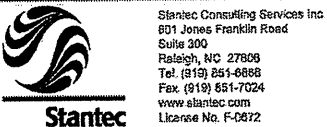
PLAN VIEW OF SPANS V,W,X (UNIT 8)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS Y,Z,AA (UNIT 9)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

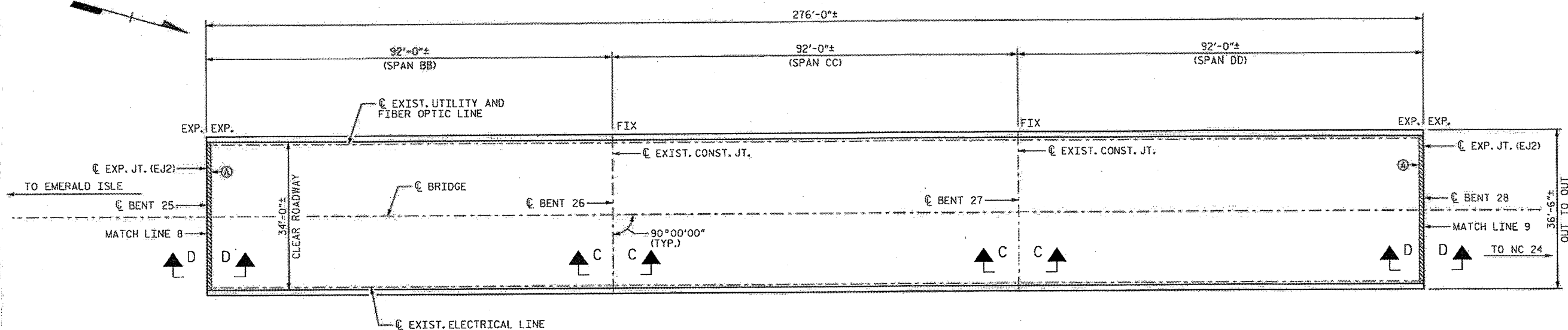


DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

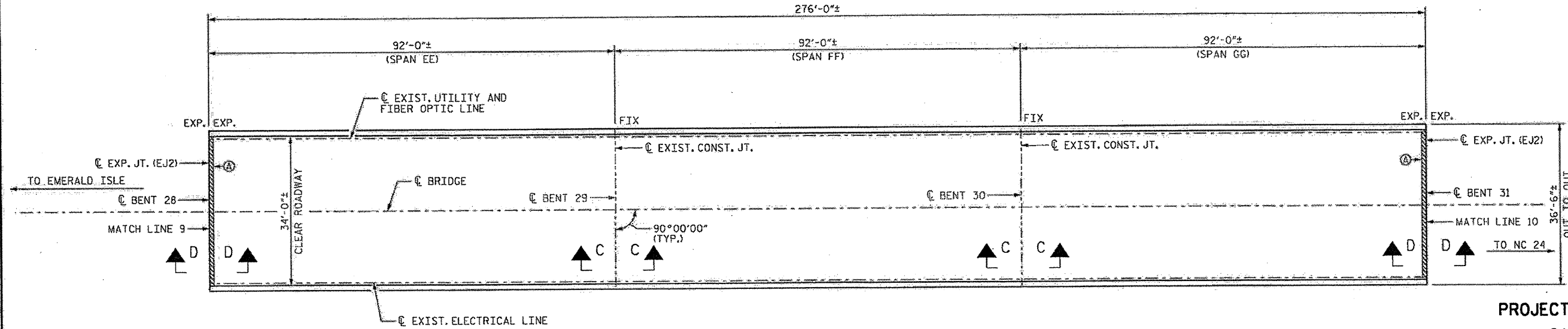
Joseph J. Kington
 PROFESSIONAL ENGINEER
 SEAL 13406
 STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN OF BRIDGE SPANS V,W,X AND SPANS Y,Z,AA					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					29

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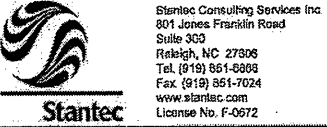
PLAN VIEW OF SPANS BB,CC,DD (UNIT 10)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS EE,FF,GG (UNIT 11)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

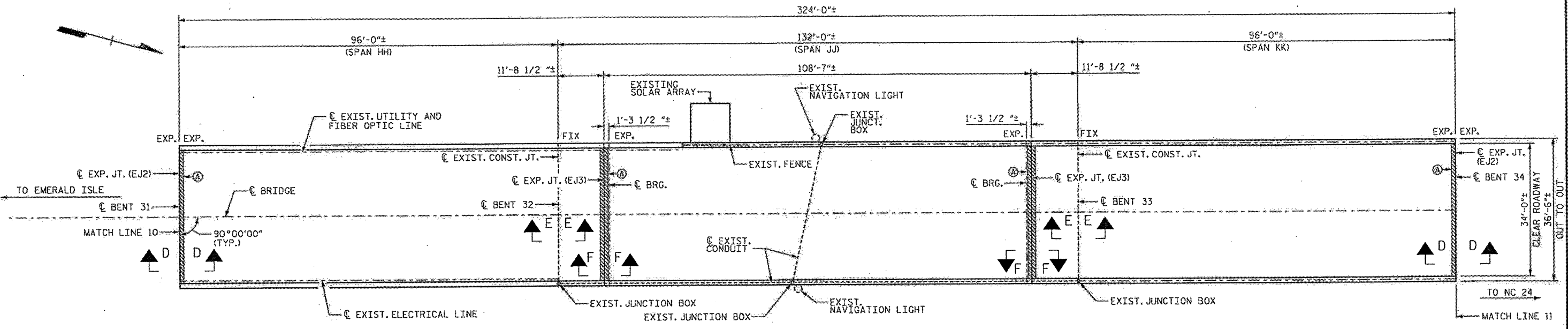


DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph S. Kington
 SEAL 13406
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA				
DEPARTMENT OF TRANSPORTATION				
RALEIGH				
PLAN OF BRIDGE				
SPANS BB,CC,DD				
AND SPANS EE,FF,GG				
DECK REHAB. FOR BRIDGE NO. 6				
REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	
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				29

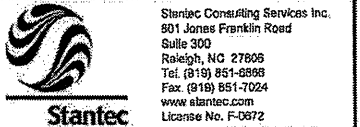
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PLAN VIEW OF SPANS HH, JJ, KK (UNIT 12)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

(A) EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

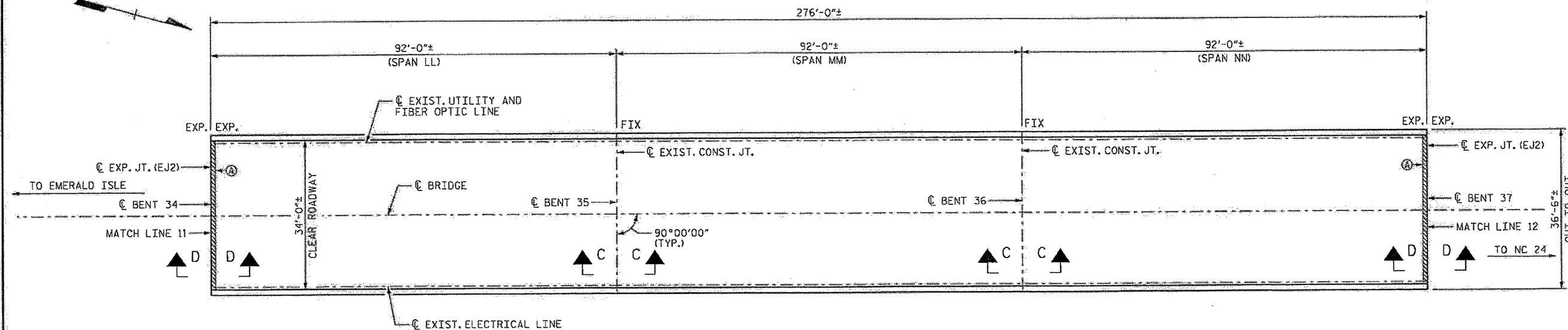


DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

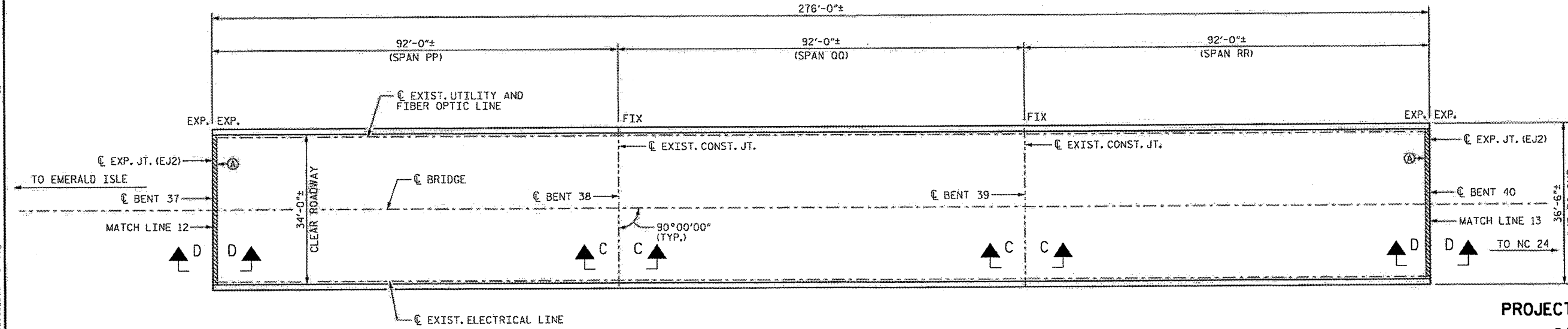
Joseph J. Huntington
 6/22/12

STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
PLAN OF BRIDGE SPANS HH, JJ, KK					
DECK REHAB. FOR BRIDGE NO. 6					
REVISTONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					29

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PLAN VIEW OF SPANS LL,MM,NN (UNIT 13)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS PP,QQ,RR (UNIT 14)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph J. Kingston
 SEAL 13406
 ENGINEER
 NORTH CAROLINA

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

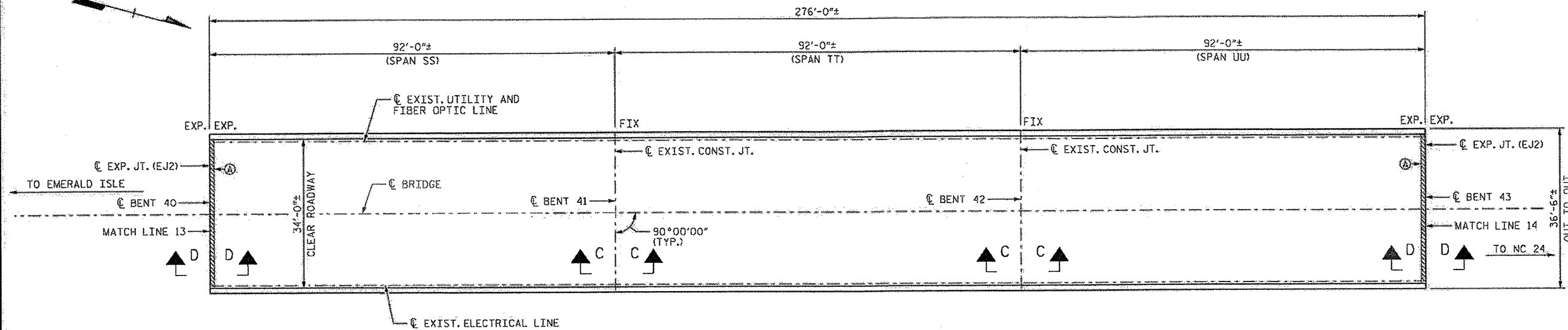
**PLAN OF BRIDGE
 SPANS LL,MM,NN
 AND SPANS PP,QQ,RR**

DECK REHAB. FOR BRIDGE NO. 6

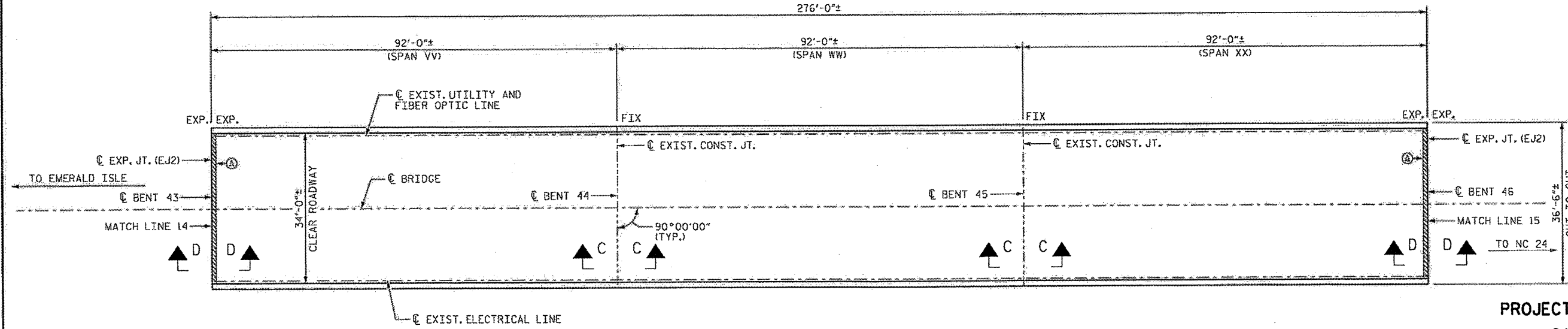
REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
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S-8
 TOTAL SHEETS: 29

2014WBS 17BP.2.P.16 Carteret Co. 45 Bridge.dwg 06/22/2012 12:35:50 PM Isole Structures Pen Table.tbl Structures Half Size.dwg

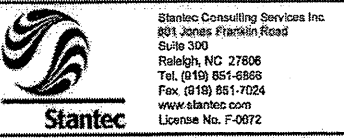


PLAN VIEW OF SPANS SS,TT,UU (UNIT 15)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS VV,WW,XX (UNIT 16)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

(A) EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.



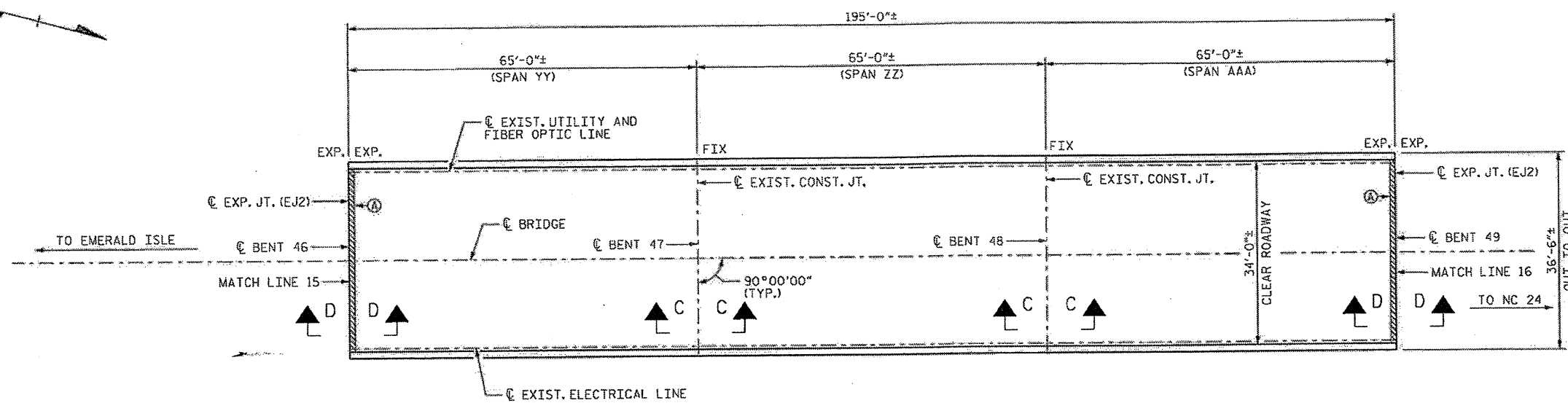
DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

Joseph J. Henninger
 12/12

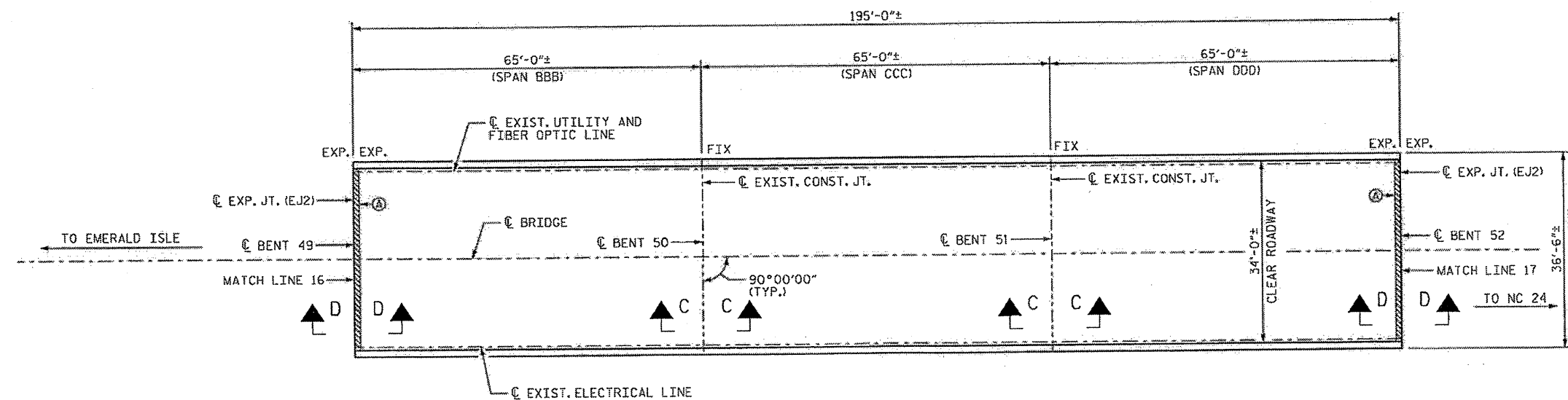
STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
PLAN OF BRIDGE SPANS SS,TT,UU AND SPANS VV,WW,XX					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
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TOTAL SHEETS					29
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STRUCTURES HALF SHEET.dwg 12/23/12 12:23:53 PM jgelle 5/22/2012 6:16:12pm 005.Drwing\BPI50006_DeckPlan3.dgn



PLAN VIEW OF SPANS YY,ZZ,AAA (UNIT 17)

NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

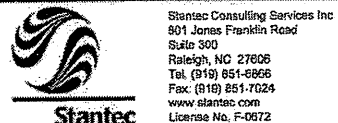


PLAN VIEW OF SPANS BBB,CCC,DDD (UNIT 18)

NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____



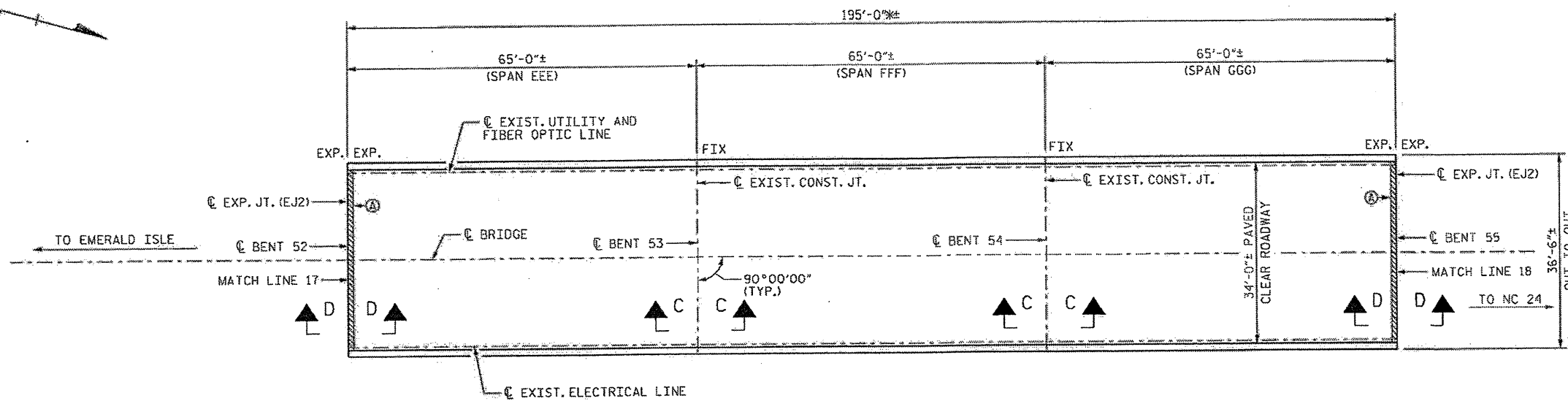
DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph J. K... 3/12

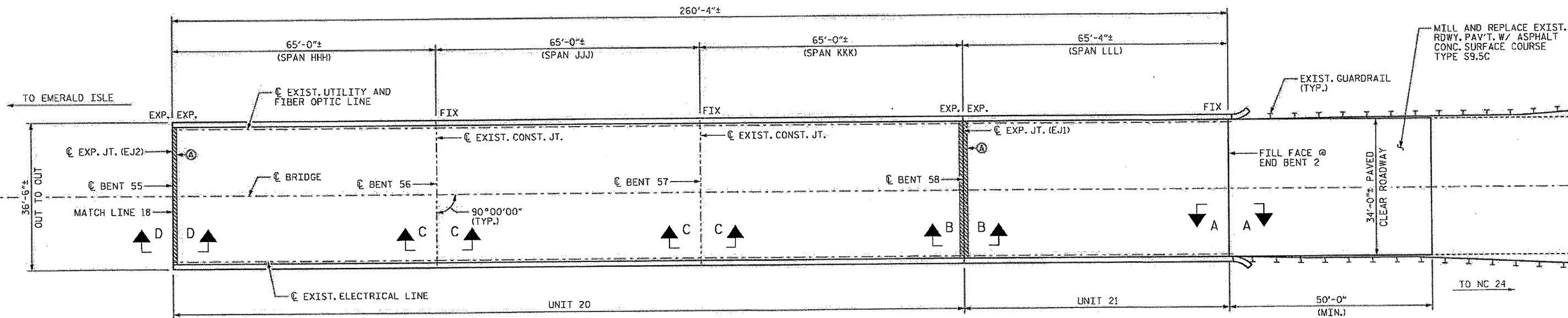


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
PLAN OF BRIDGE SPANS YY,ZZ,AAA AND SPANS BBB,CCC,DDD				
DECK REHAB. FOR BRIDGE NO. 6				
REVISIONS				
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	
				SHEET NO. S-10
				TOTAL SHEETS 29

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 6/7/22/2012
 2014.WBS 17BP.2.P.16 Carteret Co =6.Bridge 006.Drow'ng.BP50005.DeckPlan0.dgn



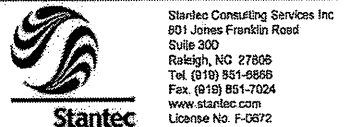
PLAN VIEW OF SPANS EEE,FFF,GGG (UNIT 19)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



PLAN VIEW OF SPANS HHH,JJJ,KKK,LLL (UNITS 20 & 21)
 NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.

Ⓐ EXISTING ELASTOMERIC CONCRETE AND/OR ASPHALT CONCRETE JOINT INFILL MATERIALS TO BE REMOVED IN THEIR ENTIRETY. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PARTIAL REMOVAL OF EXISTING STRUCTURE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____



DRAWN BY: J.L. HENNEKES DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph J. Kinnaman
 SEAL 13406
 ENGINEER
 STATE OF NORTH CAROLINA

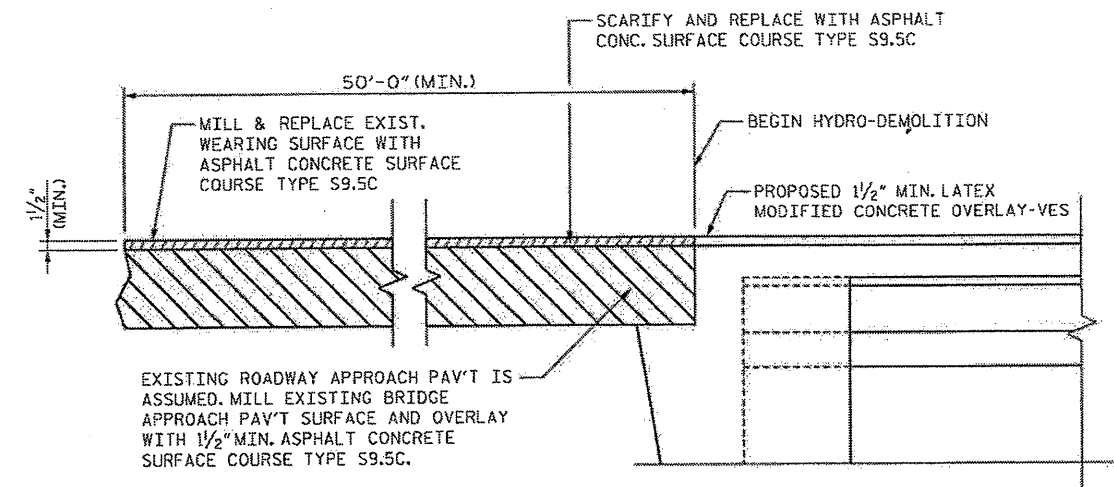
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PLAN OF BRIDGE
 SPANS EEE,FFF,GGG
 AND SPANS HHH,JJJ,KKK,LLL

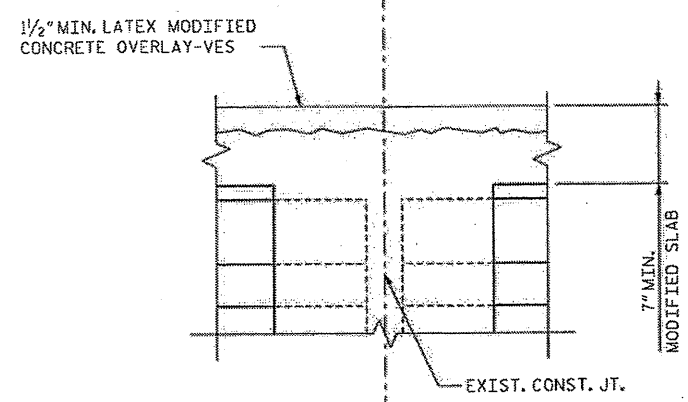
DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.	
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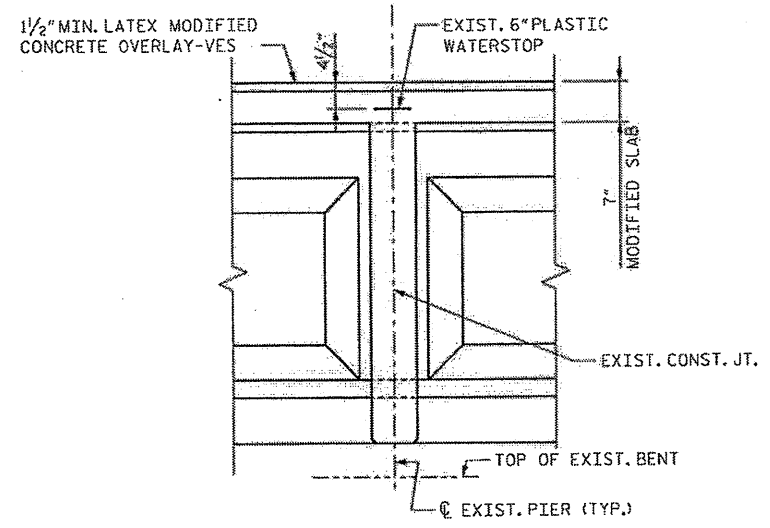
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12/15/12 PM joelle
6/22/2012
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SECTION A-A

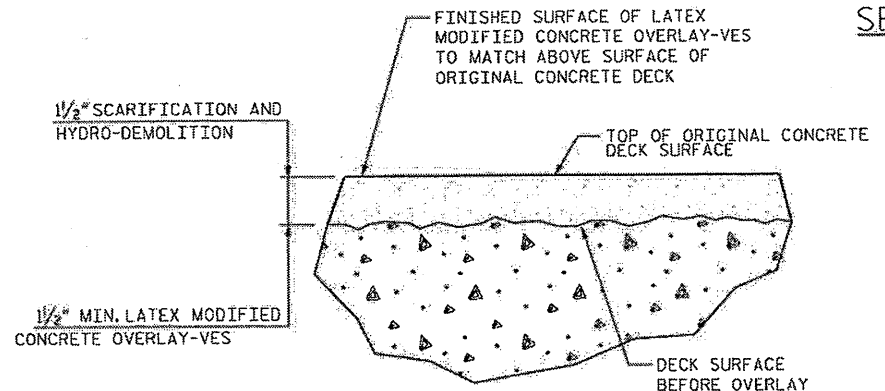


SECTION C-C
CONCRETE JOINT SEAL

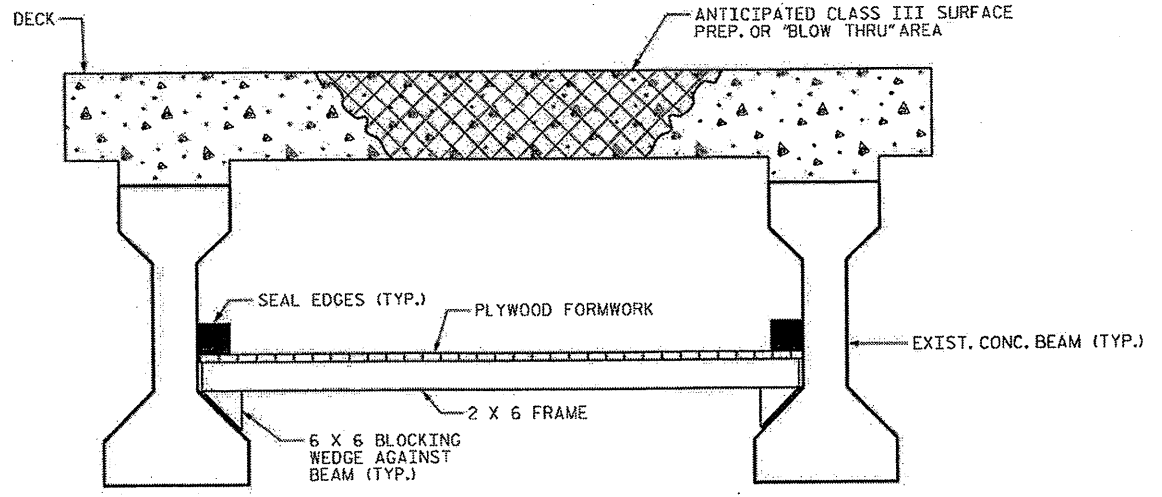


SECTION E-E
CONCRETE JOINT SEAL

RELIEF JOINT REPAIR DETAIL



DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY



TYP. "BLOW THRU" 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.

CONTRACTOR, AT HIS OPTION, MAY CHOOSE TO MONITOR HYDRO-DEMOLITION WORK AND CONTROL TRAFFIC UNDER THE BRIDGE IN LIEU OF BLOW THRU CONTAINMENT. SEE TRAFFIC CONTROL PLANS.

PLACE PLYWOOD AND FRAMING TO CLEAR INTERMEDIATE CONCRETE DIAPHRAGMS.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____

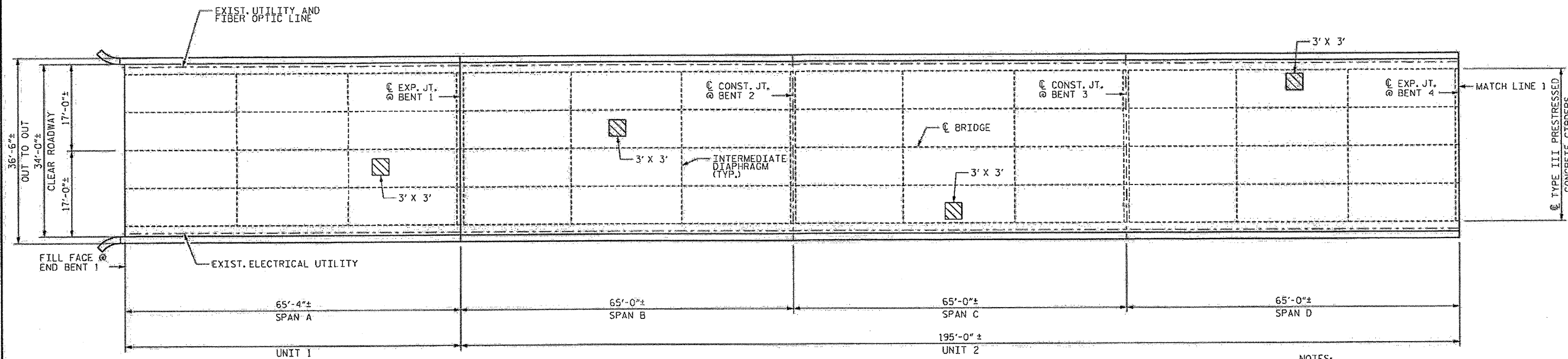
Joseph J. Hennekes
12/15/12



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
CHECKED BY: S. S. YUEN DATE: 03-30-12

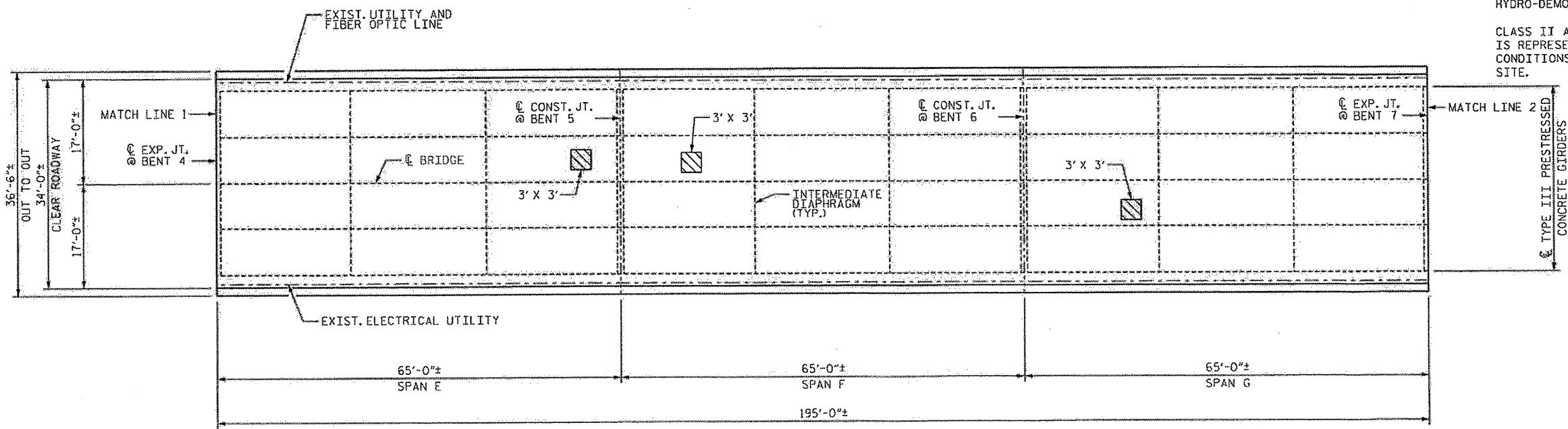
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					SHEET NO.
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					TOTAL SHEETS 29

STRUCTURES HALF SIZE DETAIL
 STRUCTURES PER TABLE 101
 12/01 PM Jgelle
 6/22/2012
 2011 WBS 17BP.2.P.16 Carteret Co - Structures - 0066 Drawing - 0066 Deck Repair.dgn



PLAN OF SPANS A,B,C,D - DECK REPAIRS (UNITS 1 & 2)
 NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

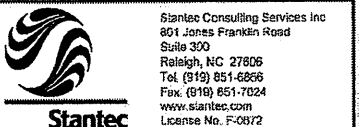


PLAN OF SPANS E,F,G - DECK REPAIRS (UNIT 3)
 NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO © BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

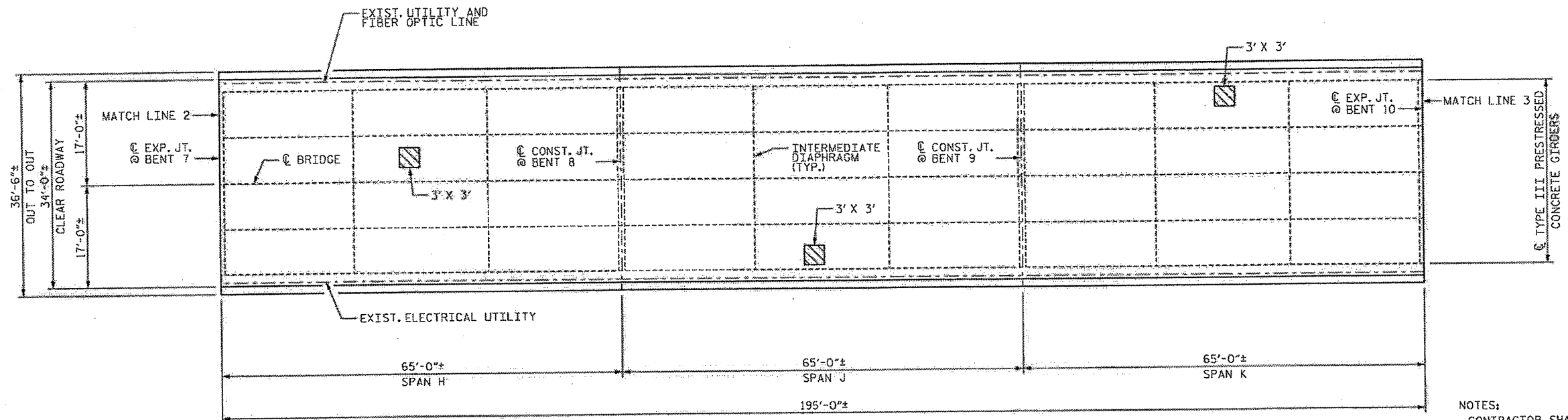


DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

Joseph Kelvington
 03/30/12

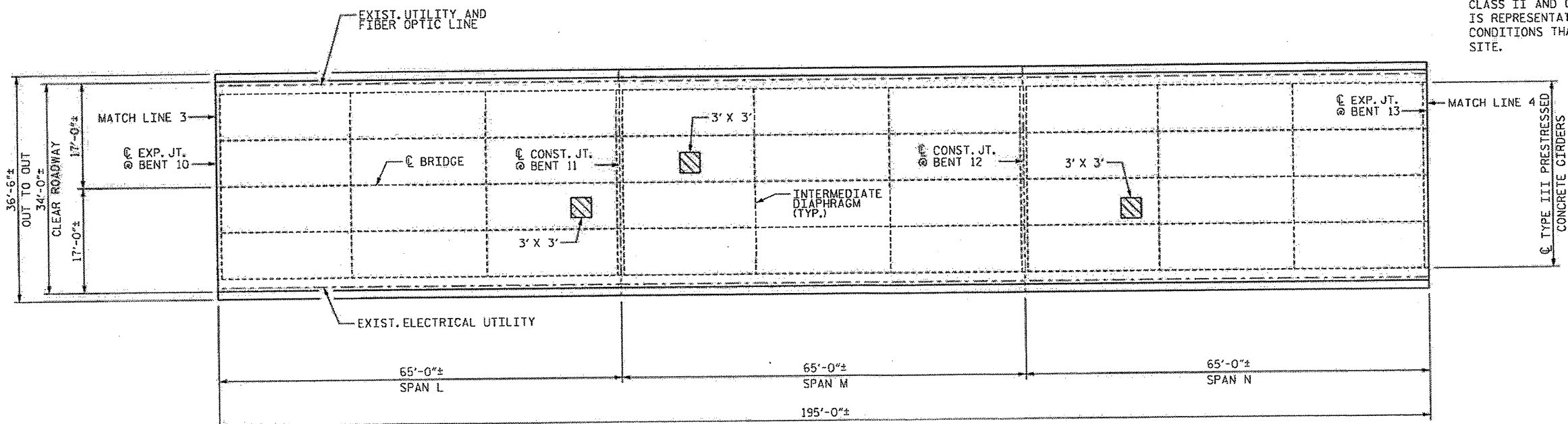
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS SPANS A,B,C,D AND SPANS E,F,G					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
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					SHEET NO. S-15 TOTAL SHEETS 29

2014 WBS 17BP.2.P.15 Carteret Co. 16. Bridge 006 Drawing BR150006 Deck Rep of 2.dgn 6/22/2012 12:14:10 PM lge116 STRUCTURES PEN TABLE.tbl STRUCTURES HALF SIZE.dwg



PLAN OF SPANS H,J,K - DECK REPAIRS (UNIT 4)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.



PLAN OF SPANS L,M,N - DECK REPAIRS (UNIT 5)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO © BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____

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 801 Jones Franklin Road
 Suite 300
 Raleigh, NC 27606
 Tel: (919) 851-8888
 Fax: (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

J. T. Kelvington
 03/30/12

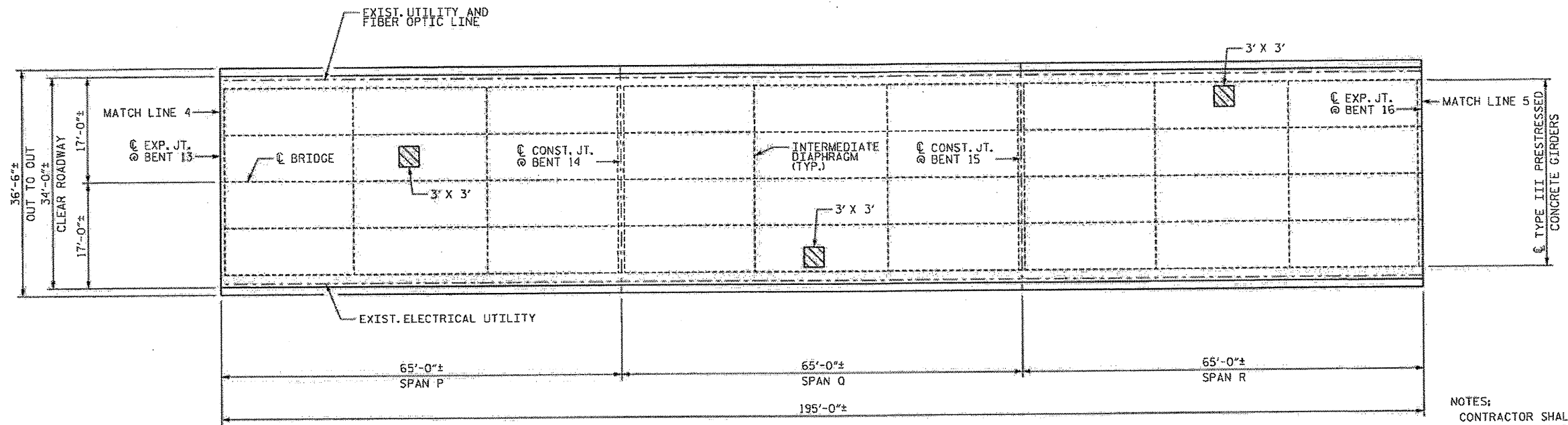
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**DECK REPAIR DETAILS
 SPANS H,J,K
 AND SPANS L,M,N**

DECK REHAB. FOR BRIDGE NO. 6

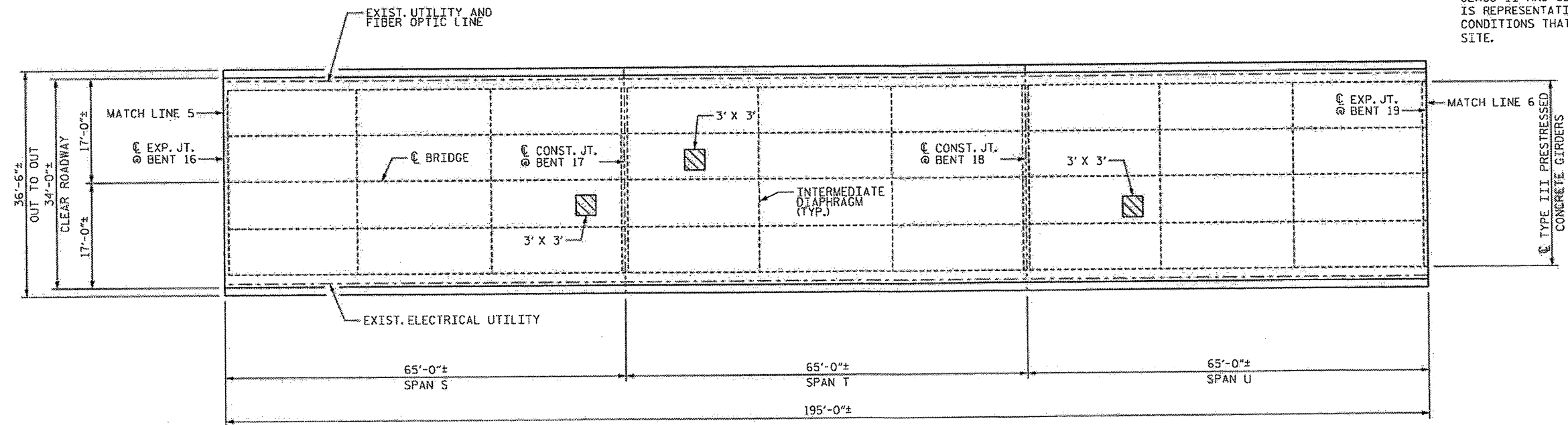
REVISIONS				SHEET NO. S-16
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PLAN OF SPANS P,Q,R - DECK REPAIRS (UNIT 6)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.



PLAN OF SPANS S,T,U - DECK REPAIRS (UNIT 7)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO $\text{\textcircled{C}}$ BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO $\text{\textcircled{C}}$ BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

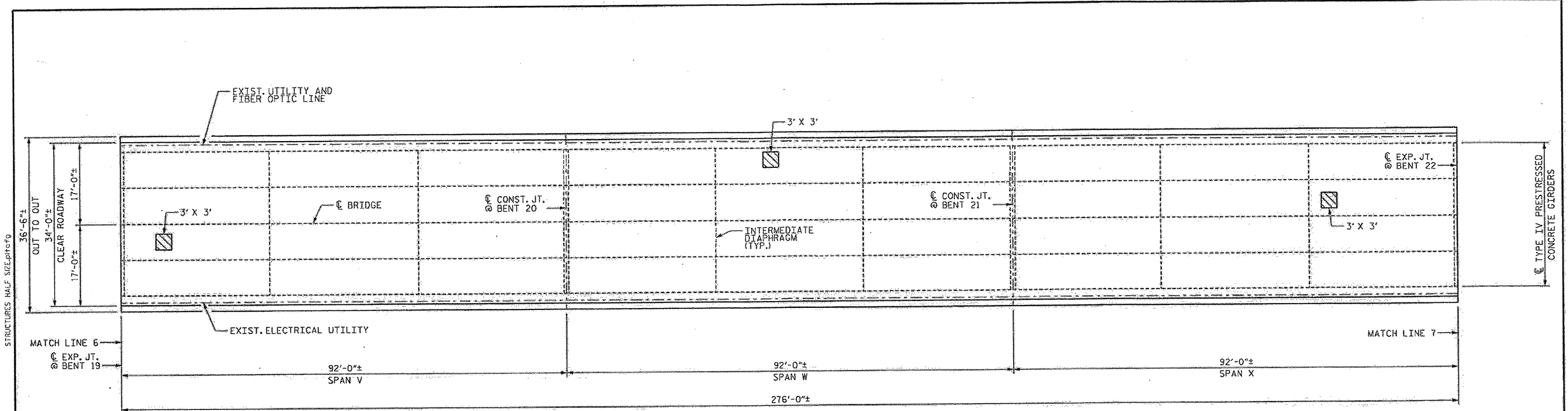
Joseph M. Kelvington

 03/30/12

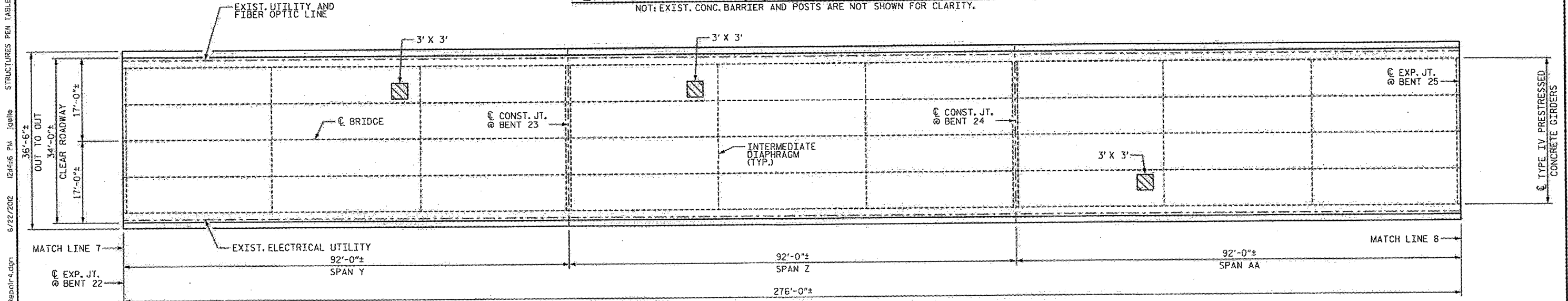
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS SPANS P,Q,R AND SPANS S,T,U					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					SHEET NO.
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					TOTAL SHEETS 29

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DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12





PLAN OF SPANS V,W,X - DECK REPAIRS (UNIT 8)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.




PLAN OF SPANS Y,Z,AA - DECK REPAIRS (UNIT 9)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO @ BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO @ BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

Joseph King
 03/22/12



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS
 SPANS V,W,X
 AND SPANS Y,Z,AA

DECK REHAB. FOR BRIDGE NO. 6

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
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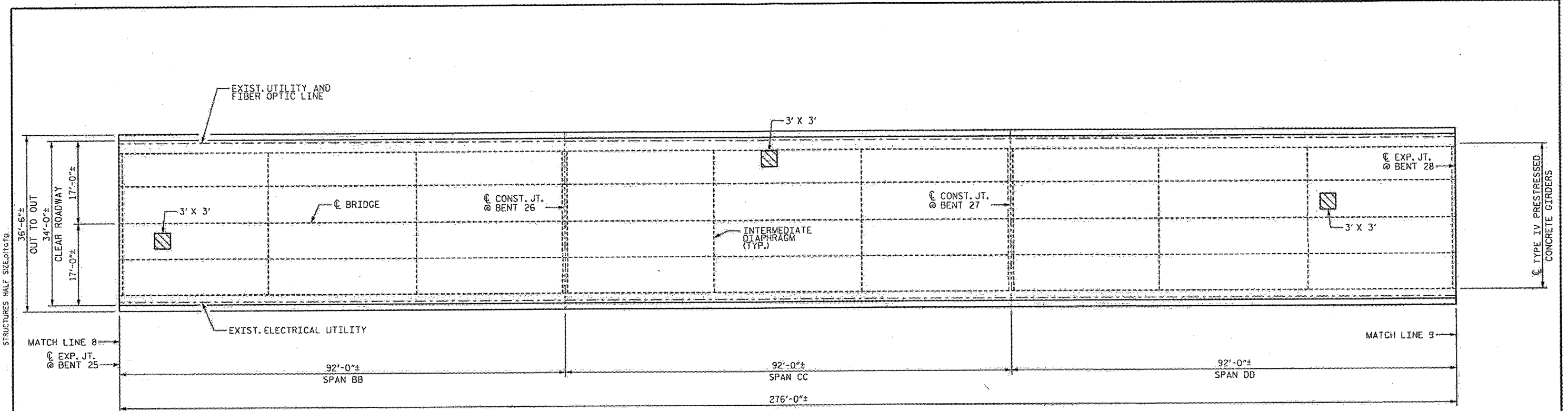
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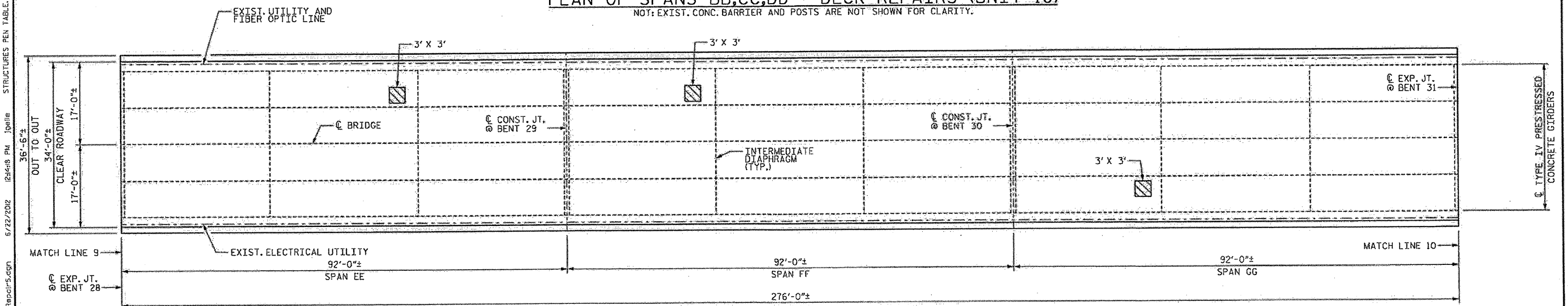
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 www.stantec.com
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DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

2011 WBS 17BP.2.P.16 Carteret Co 15\Bridges\005\Drawings\WBS150006_DeckRehab.dgn 6/22/2012 12:46:16 PM jkblm STRUCTURES PEN TABLE.tbl STRUCTURES HALF SIZE.plt cto



PLAN OF SPANS BB,CC,DD - DECK REPAIRS (UNIT 10)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.




PLAN OF SPANS EE,FF,GG - DECK REPAIRS (UNIT 11)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION


L X W = LENGTH OF AREA PARALLEL TO @ BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO @ BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____

Joseph J. Kelvington
 03/30/12


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS SPANS BB,CC,DD AND SPANS EE,FF,GG					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					SHEET NO.
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 www.stantec.com
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DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

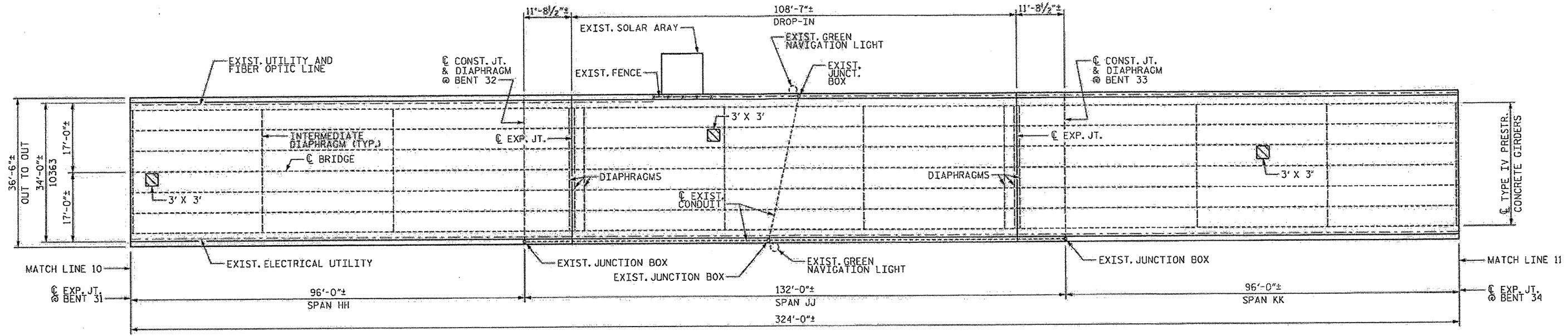
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12/14/21 PM jgelle

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2011 WBS 17BP.2.P.16 Carteret Co - 6/16/12 006:Dr-awing:BP150006-DeckRepair.dgn



PLAN OF SPANS HH, JJ, KK - DECK REPAIRS (UNIT 12)

NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:

CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

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



COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

PROJECT NO. WBS 17BP.2.P.16

CARTERET COUNTY

STATION: _____

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X
WIDTH OF AREA PERPENDICULAR TO © BRIDGE.



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801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 951-0800
Fax. (919) 851-7324
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DRAWN BY: J. L. HENNEKES DATE: 03-30-12
CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

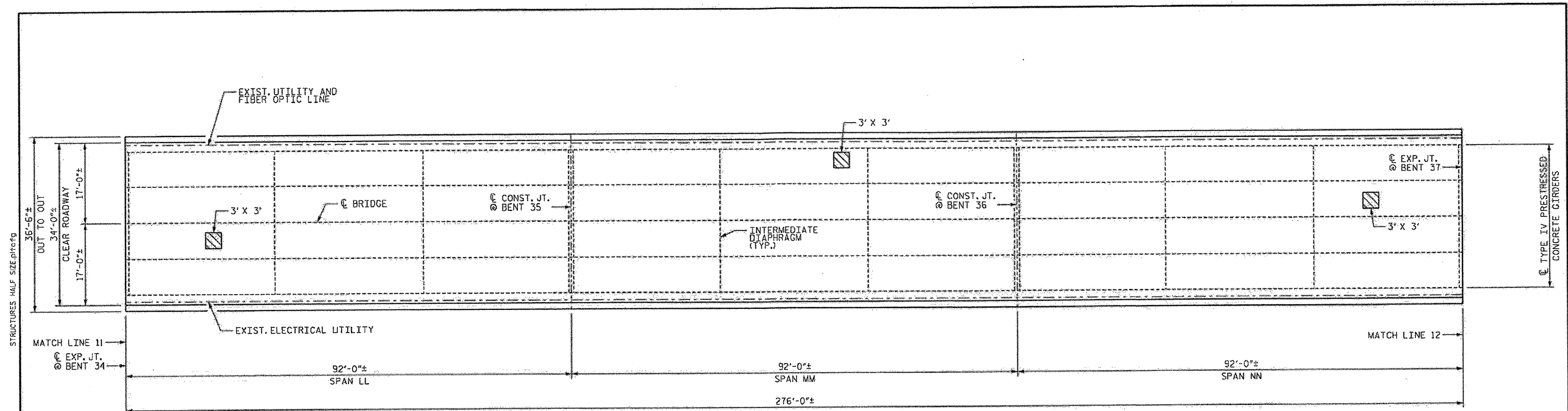
Joseph F. Kelvington
SEAL 13406
J. T. KELVINGTON
Professional Engineer
03/22/12

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

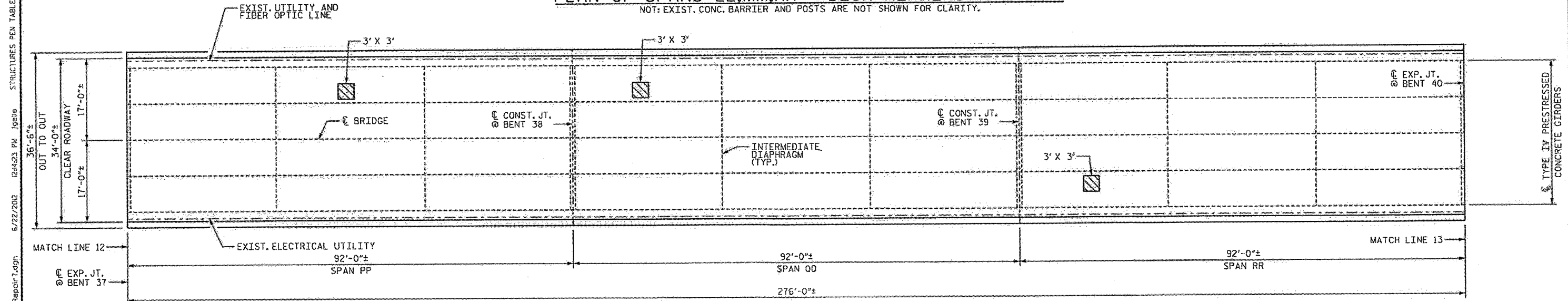
DECK REPAIR DETAILS
SPANS HH, JJ, KK

DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO. S-20
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 29
2			4			



PLAN OF SPANS LL,MM,NN - DECK REPAIRS (UNIT 13)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.



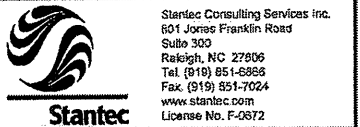
PLAN OF SPANS PP,QQ,RR - DECK REPAIRS (UNIT 14)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X WIDTH OF AREA PERPENDICULAR TO © BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

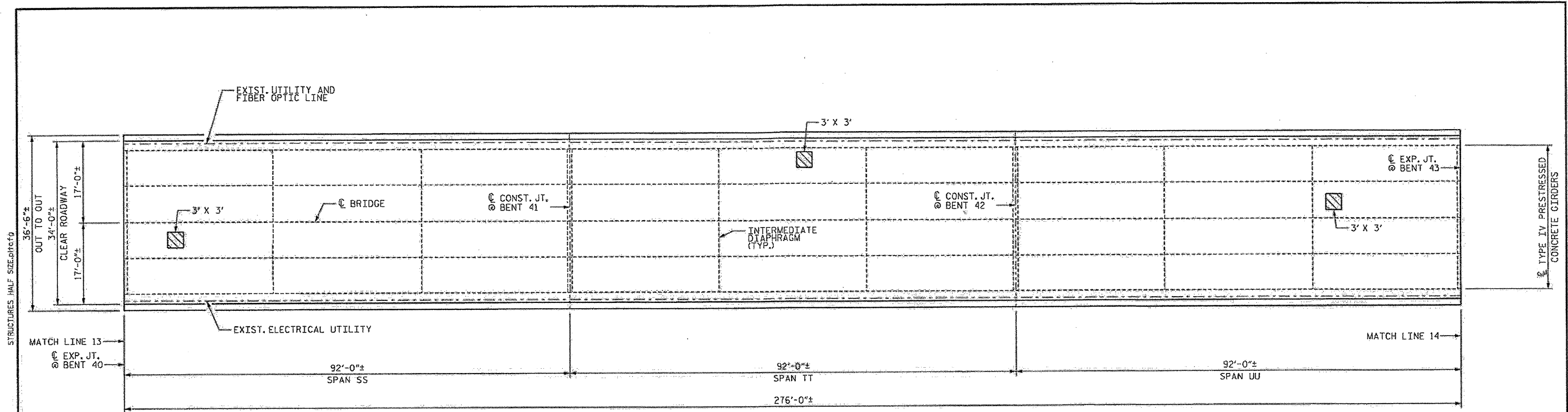
Joseph Kelvington
 3/30/12

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

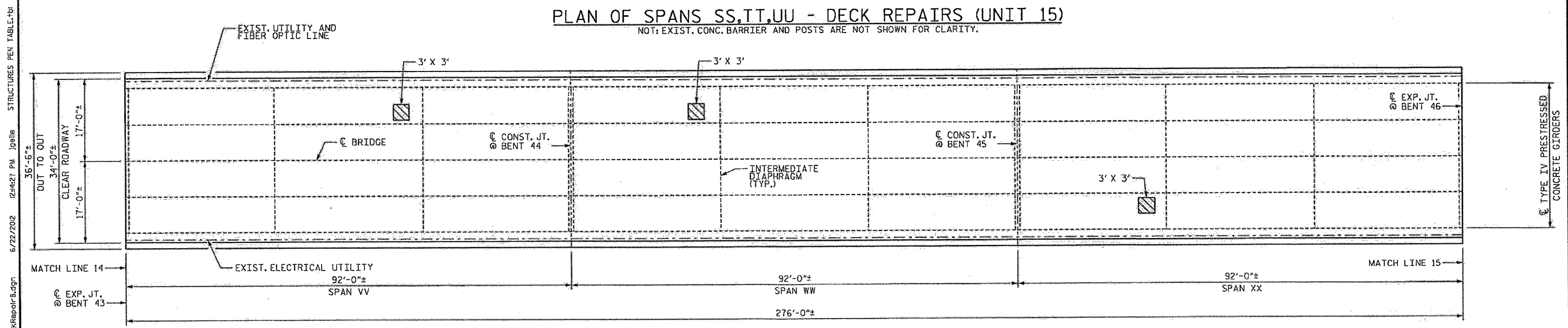
**DECK REPAIR DETAILS
 SPANS LL,MM,NN
 AND SPANS PP,QQ,RR**

DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			29





PLAN OF SPANS SS,TT,UU - DECK REPAIRS (UNIT 15)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.




PLAN OF SPANS VV,WW,XX - DECK REPAIRS (UNIT 16)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO © BRIDGE.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

Joseph J. Kelvington
 3/30/12


STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS SPANS SS,TT,UU AND SPANS VV,WW,XX					
DECK REHAB. FOR BRIDGE NO. 6					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-22
					TOTAL SHEETS 29

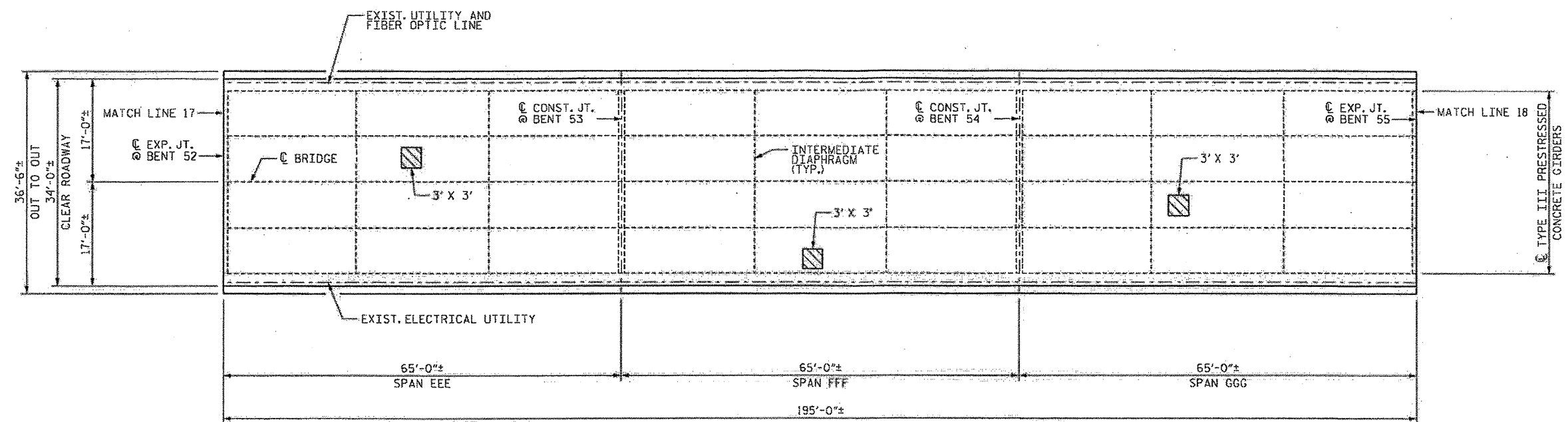
2011 WBS 17BP.2.P.16 Carteret Co. 16 Bridge 006 Drawing 0950006 DeckRepair-8.dgn 6/22/2012 12:42:27 PM igalle STRUCTURES PEN TABLE.tbl STRUCTURES HALF SIZE.dwg



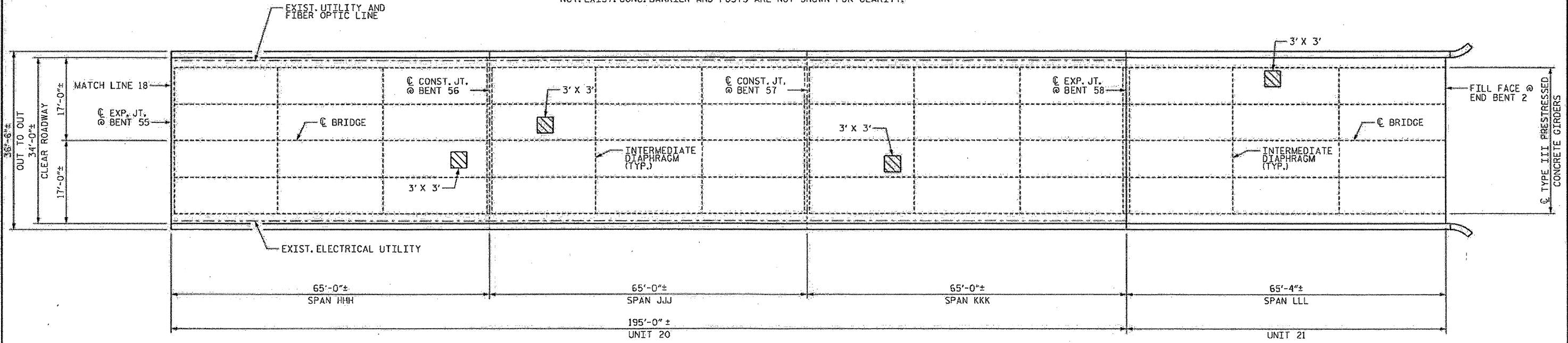
Stantec Consulting Services Inc.
 801 Jones Franklin Road
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 Raleigh, NC 27606
 Tel. (919) 851-6968
 Fax (919) 851-7024
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DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

2014.WBS.17BP.2.P.16.Carteret Co. 45.18.Bridge.006.Draining.BP150006.DeckRepair.D.dgn 6/22/2012 12:40:53 PM Jgelle STRUCTURES PEN TABLE.tbl STRUCTURES HALF SPEC.plt cpg



PLAN OF SPANS EEE, FFF, GGG - DECK REPAIRS (UNIT 19)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.



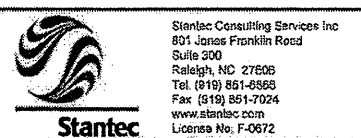
PLAN OF SPANS HHH, JJJ, KKK, LLL - DECK REPAIRS (UNITS 20 & 21)
 NOT: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

NOTES:
 CONTRACTOR SHALL FURNISH FORM WORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
 SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.
 COSTS FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.
 CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO © BRIDGE X
 WIDTH OF AREA PERPENDICULAR TO © BRIDGE.



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
 CHECKED BY: J. T. KELVINGTON DATE: 03-30-12

J. T. Kelvington
 03/22/12

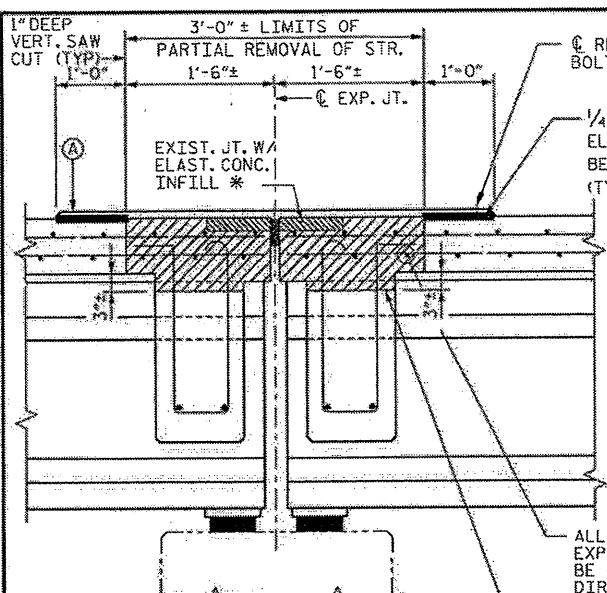
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**DECK REPAIR DETAILS
 SPANS EEE, FFF, GGG
 AND SPANS HHH, JJJ, KKK, LLL**

DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-24
1			3			TOTAL SHEETS
2			4			29

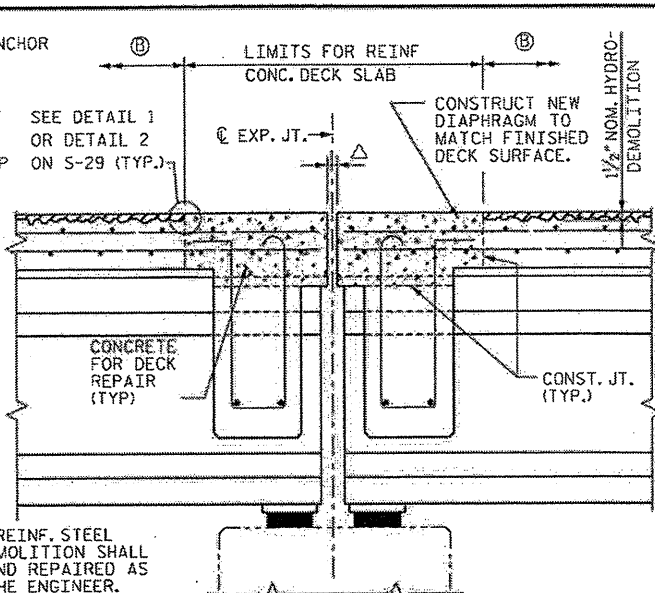
STRUCTURES PER TABLE D1
12/16/12 PM Jgeille
6/22/2012
Group: 2011WBS 17BP.2.P.16 Carteret Co #518-bridge 006.Dr-awing\BPS\0006.Det1.dgn



SECTION B-B
(CONCRETE REMOVAL AT EXISTING JOINT)

* FROM BEST AVAILABLE INFORMATION.
ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.

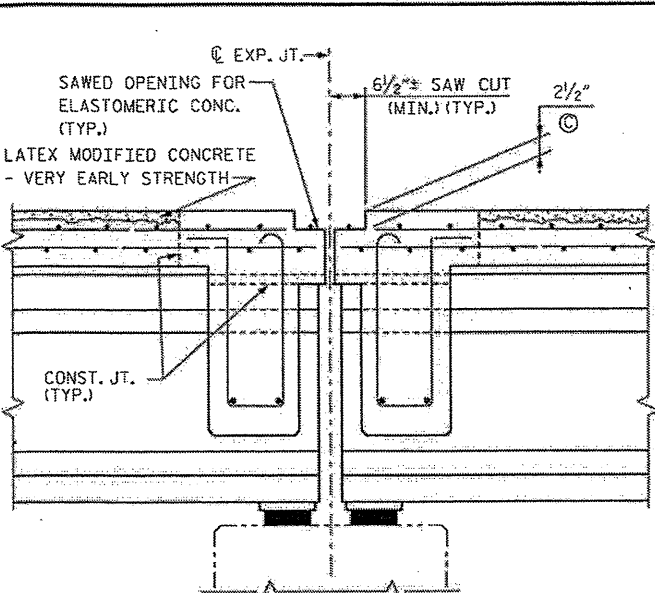
Ⓐ PROVIDE STEEL COVER \bar{P} AS REQ'D TO COVER OPENINGS ADJACENT TO ACTIVE TRAVEL LANES AND TO FACILITATE PASSAGE OF CONST. VEHICLES. NO SEPARATE PAYMENT FOR PLATES, BEARING STRIPS & ANCHORS SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.



SECTION B-B
(CONCRETE RECONSTRUCTION AT EXISTING JOINT)

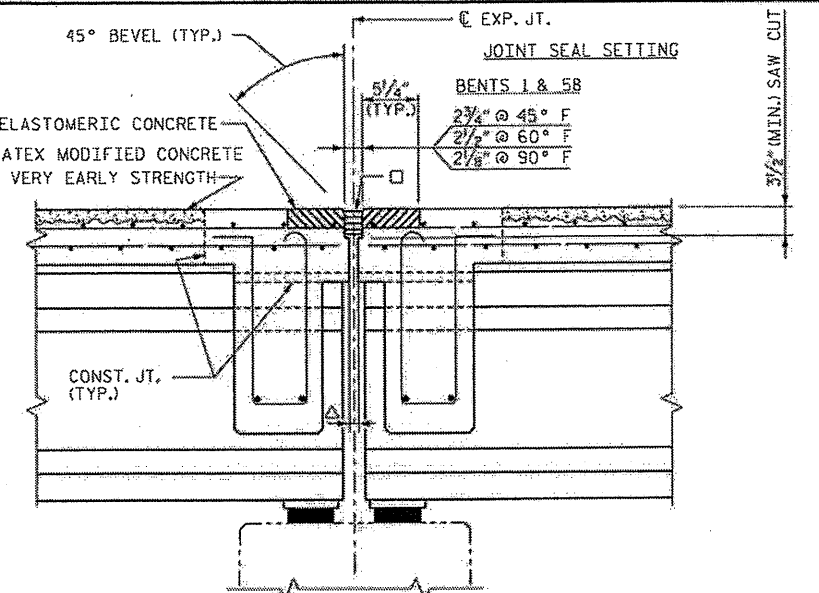
RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.
FORM AND POUR DIAPHRAGM REPAIR.

Ⓑ HORIZ. LIMITS FOR HYDRO-DEMOLITION OF DECK SLAB.



SECTION B-B
(JOINT PREPARATION FOR ELASTOMERIC CONCRETE DAM)

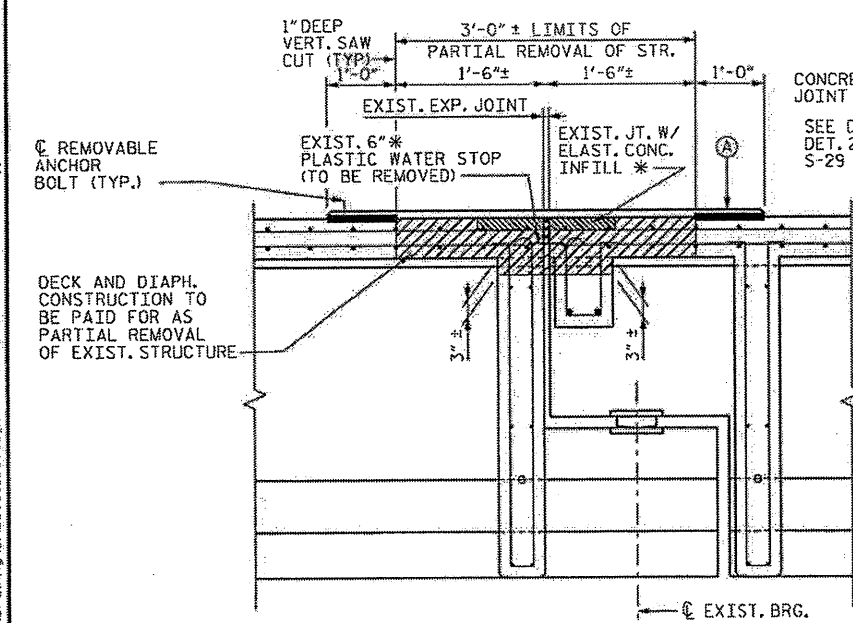
Ⓒ CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT EXISTING REINFORCING STEEL IS NOT CUT BY SAW CUTTING OPERATIONS.



SECTION B-B
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

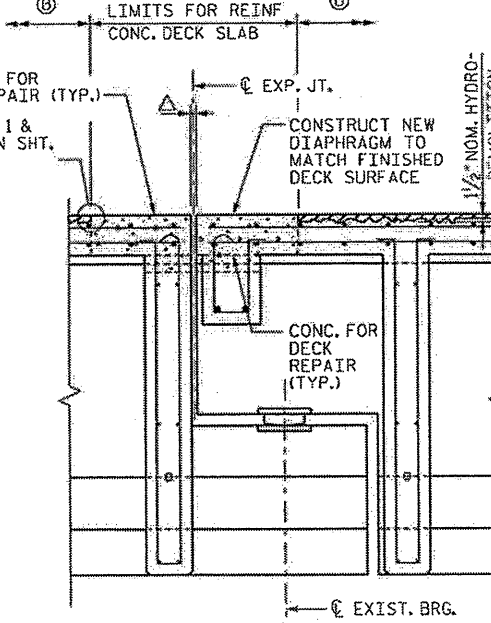
□ USE 3.125" X 2.50" UNCOMPRESSED FOAM JT. SEAL MATERIAL AT BENT 1 AND BENT 58
△ 1 1/2" FORMED JOINT OPENING

EXPANSION JOINT SEAL (EJ1)
(TYP. @ BENT 1 AND BENT 58, SEE SHTS. S-7 & S-11)



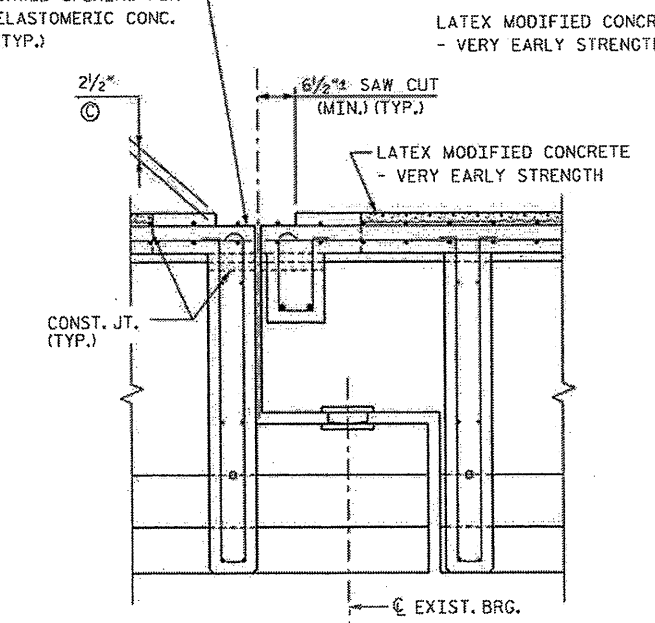
SECTION F-F
(CONCRETE REMOVAL AT EXISTING JOINT)

* FROM BEST AVAILABLE INFORMATION.
ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.



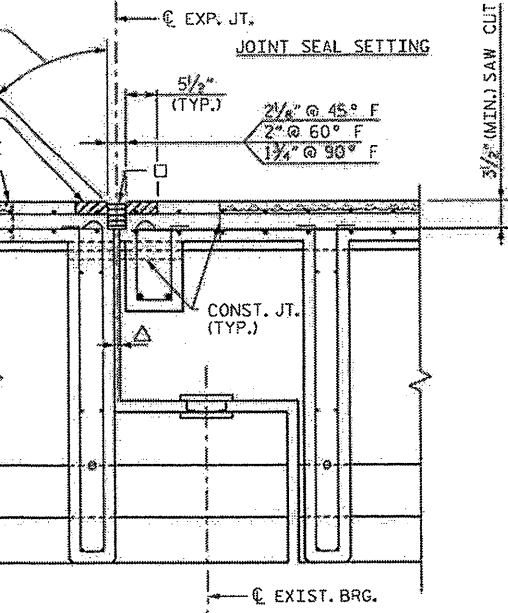
SECTION F-F
(CONCRETE RECONSTRUCTION AT EXISTING JOINT)

RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.
FORM AND POUR DIAPHRAGM REPAIR.



SECTION F-F
(JOINT PREPARATION FOR ELASTOMERIC CONCRETE DAM)

Ⓒ CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT EXISTING REINFORCING STEEL IS NOT CUT BY SAW CUTTING OPERATIONS.

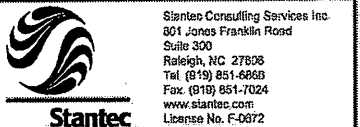


SECTION F-F
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

□ USE 2.8125" X 2.50" UNCOMPRESSED FOAM JT. SEAL MATERIAL @ BENT 32 & 33
△ 1" FORMED JOINT OPENING

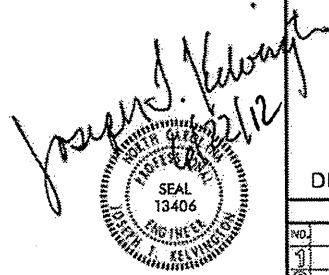
FOR PARTIAL REMOVAL OF EXISTING STRUCTURE SEE SPECIAL PROVISIONS.
FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.
FOR ADDITIONAL JT. DETAILS, SEE SHEET S-29

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____



DRAWN BY: J.B. GEILE DATE: 03-30-12
CHECKED BY: S. S. YUEN DATE: 03-30-12

EXPANSION JOINT SEAL (EJ3)
(TYP. NEAR BENT 32 AND BENT 33, SEE SHT. S-7)

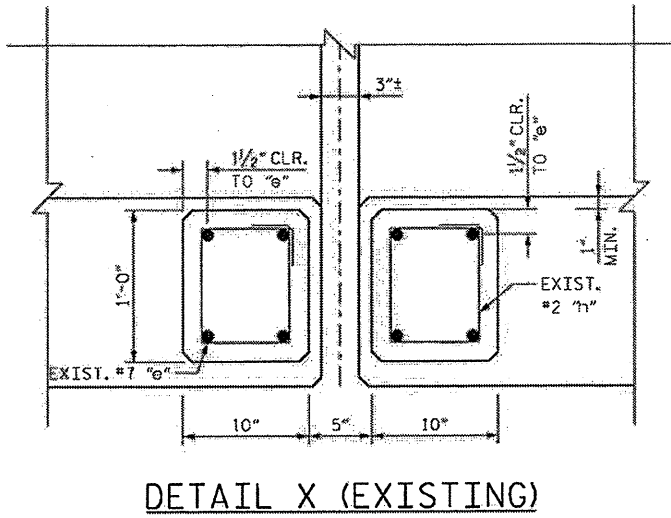


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

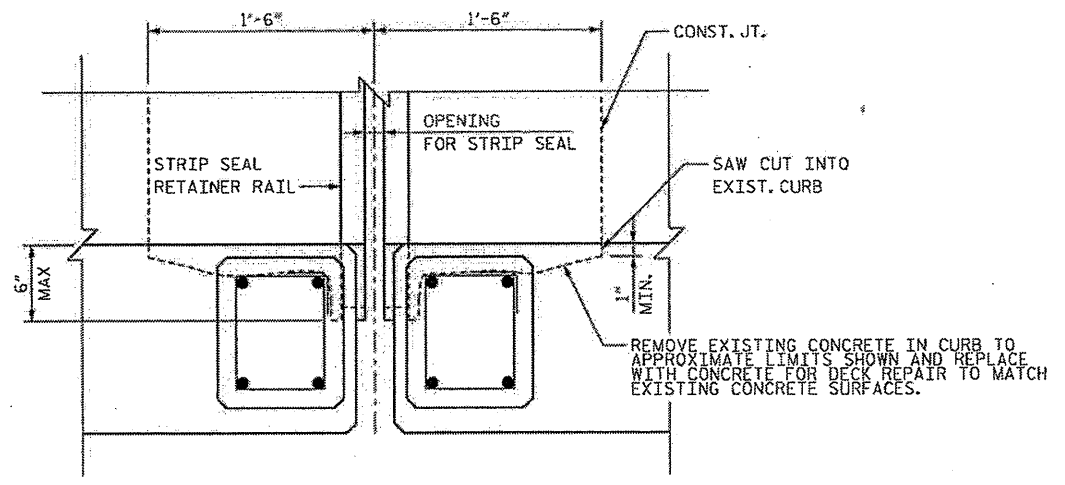
INTERIOR BENT JOINT SEAL DETAILS (EJ1 & EJ3)
DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-25
1			3			TOTAL SHEETS: 29
2			4			

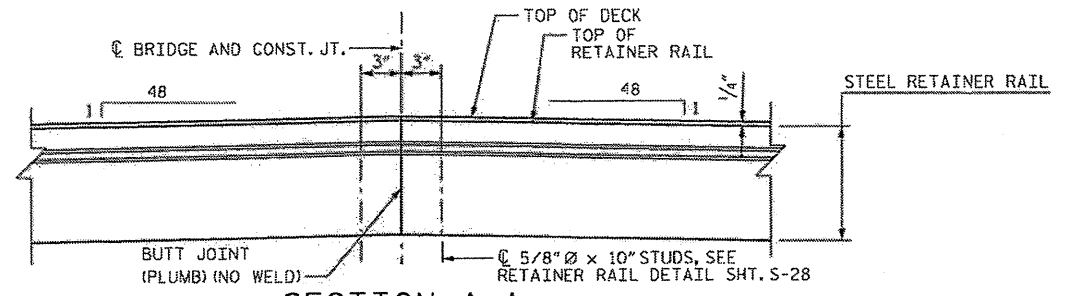
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 6/22/2012
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 WBS 17BP.2.P.16 Carteret Co *633-ldg 006 Drawing\BP\50006_DeckRehab\02.dgn



DETAIL X (EXISTING)

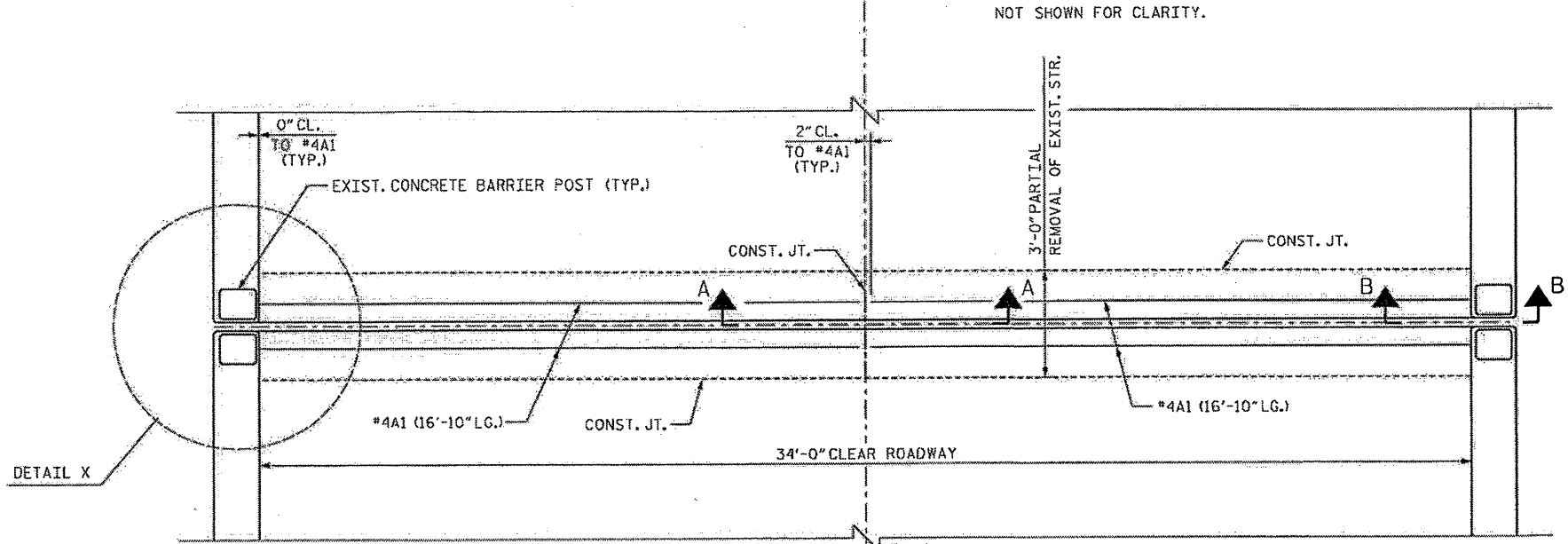


DETAIL X (PROPOSED JT. REPAIR)

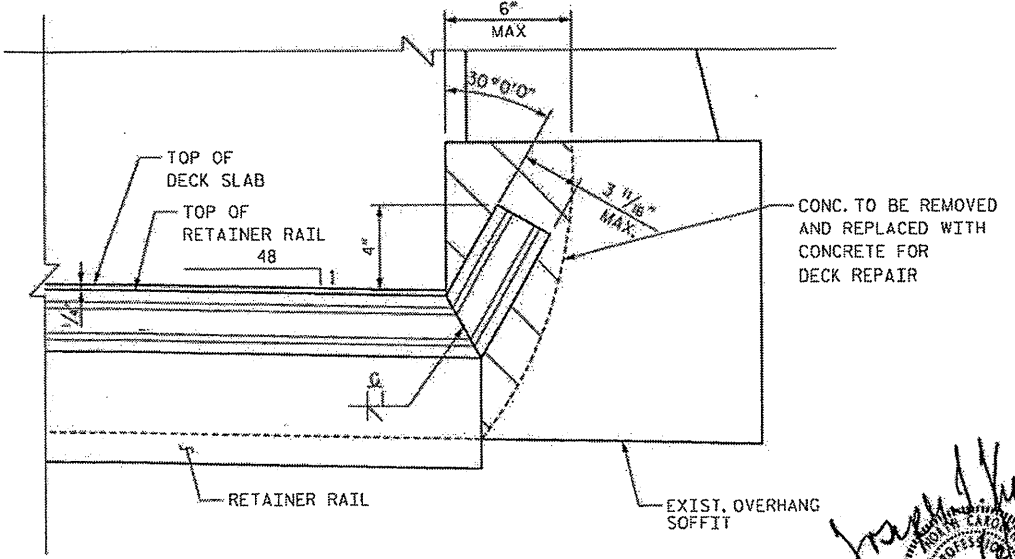


SECTION A-A

NOTE: STUDS AND WEEP HOLES NOT SHOWN FOR CLARITY.



PLAN VIEW OF JT. REPAIRS



SECTION B-B

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____
 SHEET 1 of 3

STATE OF NORTH CAROLINA						SHEET NO. S-26
DEPARTMENT OF TRANSPORTATION RALEIGH						
INTERIOR BENT JOINT SEAL DETAILS (EJ2)						TOTAL SHEETS 29
DECK REHAB. FOR BRIDGE NO. 6						
REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

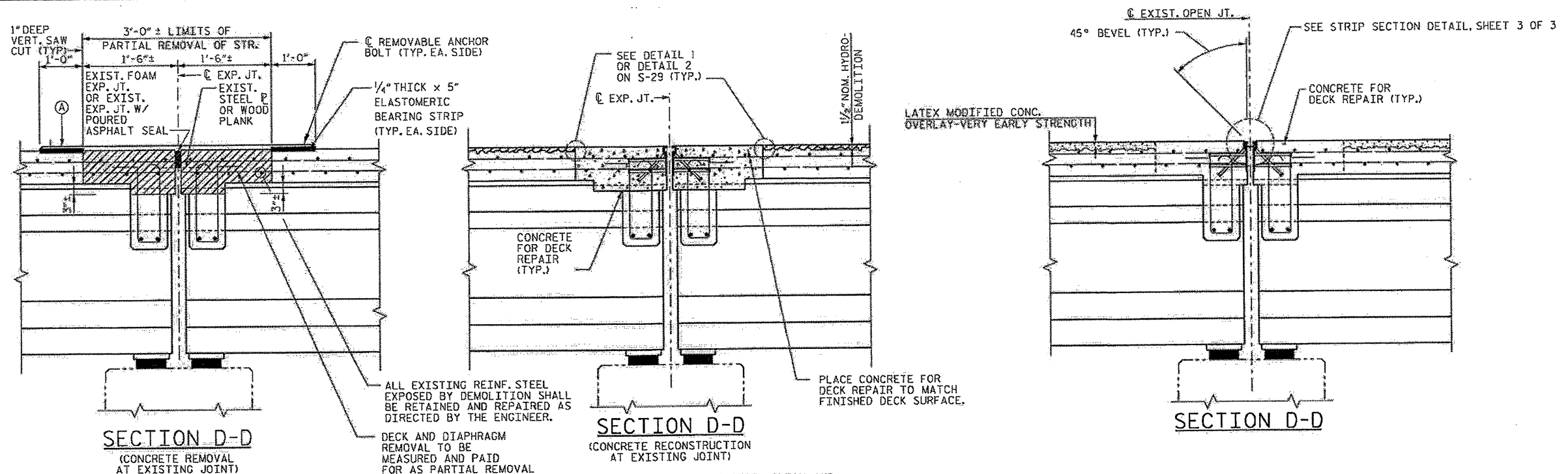


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 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY: C. B. BAKER DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

Joseph K...
 SEAL
 13406
 10/10/12

0up 2011WBS 17BP.2.P.16 Carteret Co *6/12/2012 bound sep\dr\dwg\17BP150006_0e13.dgn 6/25/2012 3:28:46 PM lcselle @PENTBL5@ @PLTDRV5\$



* FROM BEST AVAILABLE INFORMATION.
 ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.

Ⓐ PROVIDE STEEL COVER PLATE AS REQ'D TO COVER OPENINGS ADJACENT TO ACTIVE TRAVEL LANES AND TO FACILITATE PASSAGE OF CONST. VEHICLES. NO SEPARATE PAYMENT FOR PLATES, BEARING STRIPS & ANCHORS SHALL BE MADE. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.

NOTES:

DECK REMOVAL SHALL BE PERFORMED BY FIRST INTRODUCING A PARTIAL DEPTH SAWCUT (1" MAX DEPTH) FOLLOWED BY CONCRETE REMOVAL WITH A CHIPPING HAMMER IN THE RANGE OF 15 LBS. CARE SHALL BE TAKEN SO AS TO PREVENT DAMAGE TO EXISTING DECK REINFORCING STEEL AND EXISTING GIRDERS.
 FOR CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.
 FOR PARTIAL REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
 STATION: _____

SHEET 2 OF 3

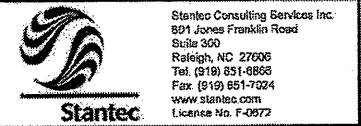
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

INTERIOR BENT JOINT
 SEAL DETAILS (EJ2)

DECK REHAB. FOR BRIDGE NO. 6

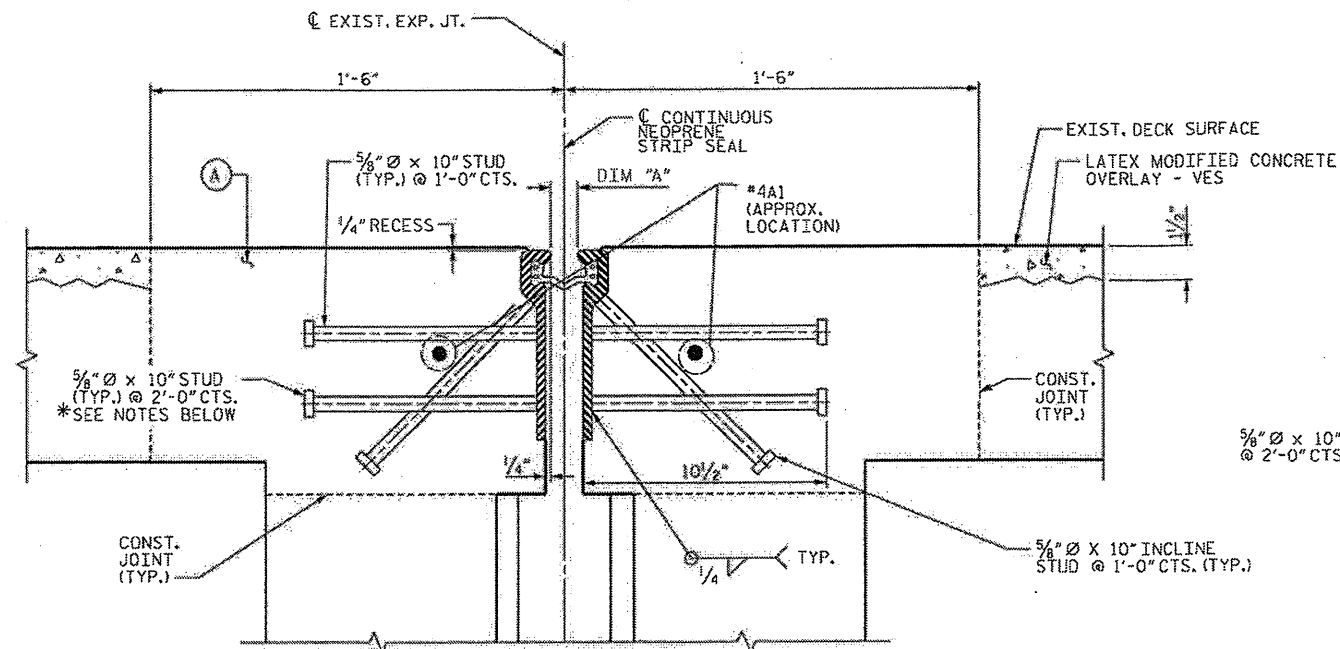
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-27
1			3			10/15/15
2			4			29

Joseph A. Henneke
 03/25/12
 PROFESSIONAL ENGINEER
 SEAL 13406
 STATE OF NORTH CAROLINA

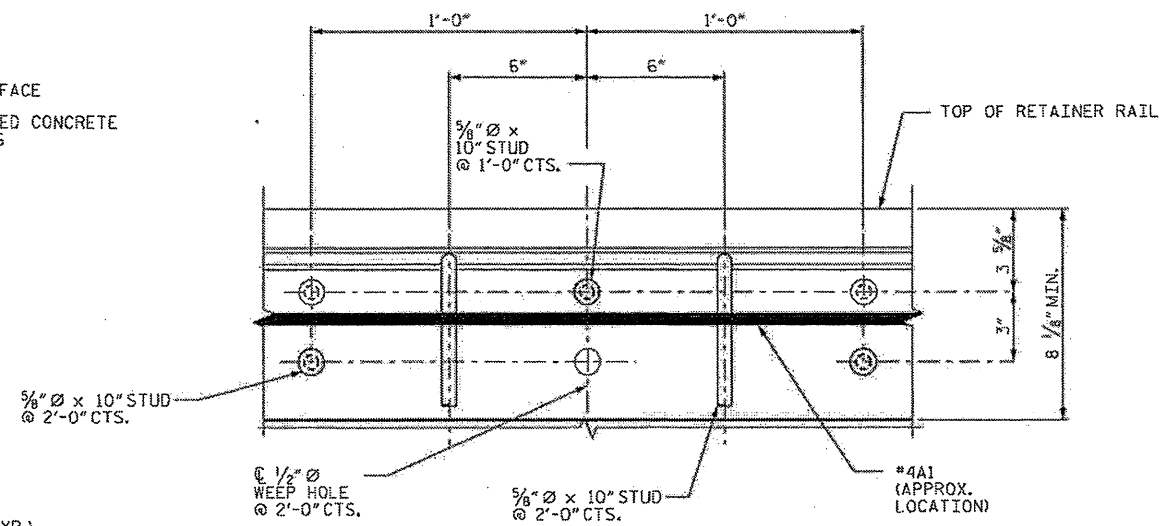


DRAWN BY: J. L. HENNEKE'S DATE: 03-30-12
 CHECKED BY: S. S. YUEN DATE: 03-30-12

STRUCTURES HALF SIZE: 010109
STRUCTURES PEN TABLE: 101
2/14/10 PM 10:10
6/22/2012
005\Drawing\SPR0006_De1.dgn



SECTION DETAIL



RETAINER RAIL DETAIL

NOTES:

Ⓐ CONCRETE FOR DECK REPAIR PLACED TO MATCH FINISHED DECK SLAB ELEVATIONS. SURFACE TO BE GROOVED. SEE SPECIAL PROVISIONS.

ALL STEEL RETAINER RAIL ASSEMBLY SURFACES SHALL BE METALIZED. SEE SPECIAL PROVISIONS.

NEOPRENE SEAL SHALL BE CONTINUOUS ACROSS THE WIDTH OF THE BRIDGE. FIELD SPlicing NEOPRENE SEAL WILL NOT BE PERMITTED.

SET TOP OF RETAINER RAIL TO MATCH CROSS SLOPE ON BRIDGE DECK.

BOND NEOPRENE SEAL TO RETAINER RAIL W/ AN APPROVED ADHESIVE.

SEAL SHALL BE COMPATIBLE W/ RETAINER RAIL AND SHALL BE WATER TIGHT.

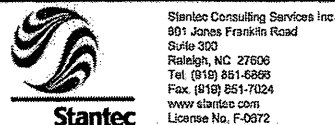
NOTE:

CONTRACTOR SHALL MOVE OR REPOSITION EXIST. REINF. STEEL AT EXP. JOINT BLOCKOUT TO AVOID INTERFERENCE WITH RETAINER RAIL ASSEMBLY (TYP.)

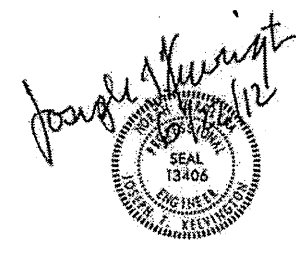
BENT NO.	TEMPERATURE SETTING DIMENSIONS			
	DIM. "A"			
	@ 30° F	@ 45° F	@ 60° F	@ 90° F
4, 7, 10, 13, 16, 49, 52, 55	2 3/16"	2"	1 3/4"	1 1/4"
19, 46	2 3/16"	2 3/16"	1 3/8"	1 5/16"
22, 25, 28, 37, 40, 43	2 11/16"	2 3/8"	2"	1 5/16"
31, 34	2 3/16"	2 3/16"	1 3/8"	1 5/16"

PROJECT NO. WBS 17BP.2.P.16
CARTERET COUNTY
STATION: _____

SHEET 3 of 3



DRAWN BY: J. L. HENNEKES DATE: 03-30-12
CHECKED BY: S. S. YUEN DATE: 03-30-12



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

INTERIOR BENT JOINT SEAL DETAILS (EJ2)

DECK REHAB. FOR BRIDGE NO. 6

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			5-28
2			4			29

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

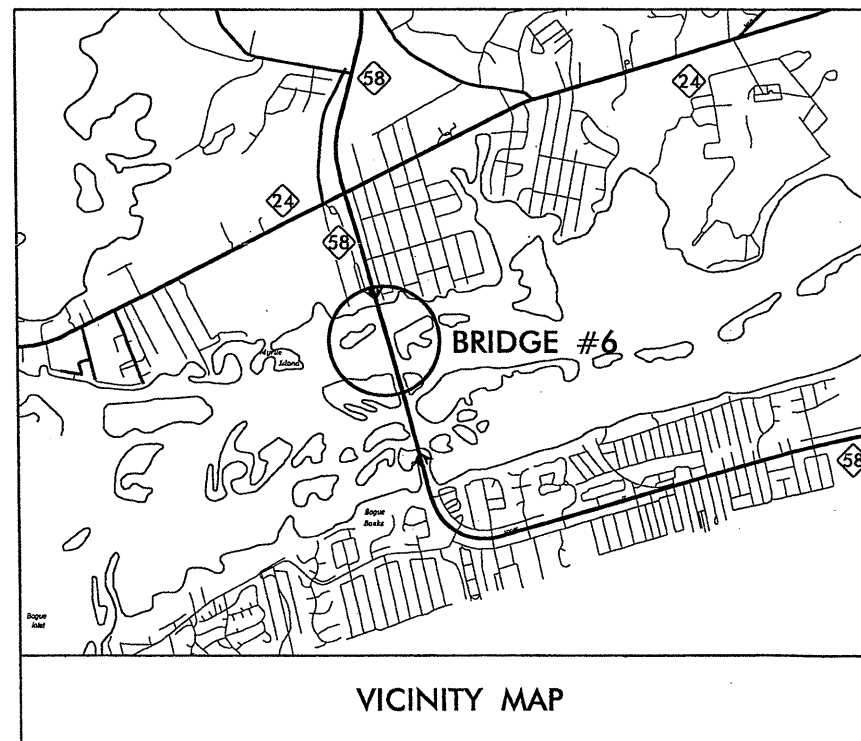
TRANSPORTATION MANAGEMENT PLAN

CARTERET COUNTY

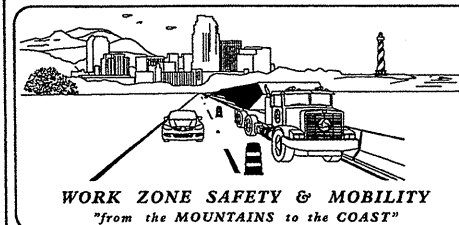
DIVISION 2



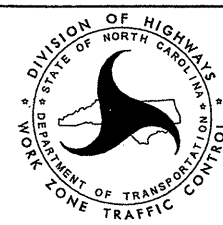
BRIDGE #6 - NC 58 OVER INTERCOASTAL WATERWAY



5/23/2012 10:41:00 AM C:\TrafficControl\TCP\WBS 17BP.2.P.16 Carteret 6\TCP\Plan Sheets\WBS 17BP.2.P.16.TC.TMP.01.TITLE.dgn



PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT
RALEIGH, NC



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LEGEND AND LIST OF ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES & PHASING
TMP 3-3A	NC 58 NORTHBOUND NORTH HALF OF BRIDGE LANE CLOSURE
TMP 4-4A	NC 58 NORTHBOUND SOUTH HALF OF BRIDGE LANE CLOSURE
TMP 5-5A	NC 58 SOUTHBOUND NORTH HALF OF BRIDGE LANE CLOSURE
TMP 6-6A	NC 58 SOUTHBOUND SOUTH HALF OF BRIDGE LANE CLOSURE

TRAFFIC MANAGEMENT STRATEGY

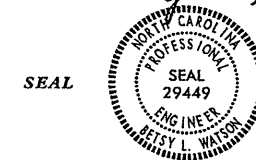
PROPOSED BRIDGE WORK WILL BE PERFORMED USING TIME RESTRICTED LANE CLOSURES AND TEMPORARY SIGNALS.



PLAN PREPARED BY:
Stanlec Consulting Services Inc.
801 Jones Franklin Road-Suite 300
Raleigh, NC 27806
Tel. 919.851.6866
Fax. 919.851.7024
www.stantec.com

BETSY L. WATSON, P.E. TRAFFIC ENGINEER
GEORGE KARAGEORGE SR. TRANSPORTATION DESIGNER

APPROVED: *Betsy L. Watson*
DATE: *May 23, 2012*



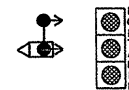
SHEET NO.
TMP-1

WBS 17BP.2.P.16

LEGEND

- ← DIRECTION OF TRAFFIC FLOW
- ↔ DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- WORK AREA ▨ PAVEMENT REMOVAL
- ↑ NORTH ARROW
- ▩ TYPE III BARRICADE
- ▲ CONE
- DRUM ◎ SKINNY DRUM ⊙ TUBULAR MARKER
- ◀ CHANGEABLE MESSAGE SIGN (CMS)
- ◀ PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL
- FLAGGER
- AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
- ◻ FLASHING ARROW BOARD (TYPE C)
- ◻ LAW ENFORCEMENT
- ◻ TRUCK MOUNTED ATTENUATOR (TMA)
- ▬ PORTABLE CONCRETE BARRIER (PCB)
- ~ TEMPORARY CRASH CUSHION
- ~ TEMPORARY SHORING
- ⊲ WORK ZONE SIGN-PORTABLE
- ⊲ WORK ZONE SIGN-STATIONARY
- ⊲ WORK ZONE SIGN-STATIONARY OR PORTABLE

TEMPORARY PORTABLE SIGNALS



PAVEMENT MARKINGS

- ▬ EXISTING PAVEMENT MARKING (GRAY)
- - - SKIP LINES
- · - · - MINI-SKIP LINES
- ▬ SOLID LINES

PAVEMENT MARKING SYMBOLS

- ↑↔ PAVEMENT MARKING SYMBOLS
- ↑↔ EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- ONLY PAVEMENT MARKING ALPHANUMERIC CHARACTERS

PAVEMENT MARKERS

- ◻ CRYSTAL / CRYSTAL
- ◼ CRYSTAL / RED
- ◆ YELLOW / YELLOW

ROADWAY STANDARD DRAWINGS

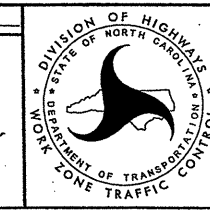
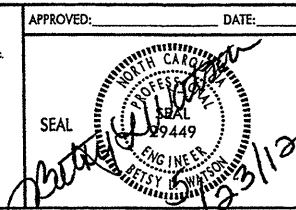
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

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LEGEND
&
ROADWAY STANDARD DRAWINGS

GENERAL NOTES

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

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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES ON NC 58 AS FOLLOWS:

DAY AND TIME RESTRICTIONS

FROM OCTOBER 15 TO MARCH 15
7:00 P.M. FRIDAY - 7:00 P.M. SUNDAY

FROM MARCH 16 TO MAY 23
7:00 A.M.-7:00 P.M. MONDAY-THURSDAY AND
7:00 A.M. FRIDAY - 7:00 P.M. SUNDAY

FROM MAY 24 TO OCTOBER 14
LANE CLOSURES AND TEMPORARY SIGNAL OPERATIONS WILL NOT BE ALLOWED AT ANY TIME.

IN ADDITION, THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON NC 58, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, SPECIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES ON NC 58 DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

1. FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31ST AND 7:00 P.M. JANUARY 2ND.
3. FOR ST. PATRICK'S DAY, BETWEEN THE HOURS OF 7:00 A.M. MARCH 15TH AND 7:00 P.M. MARCH 17TH.
4. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. MARCH 29TH AND 7:00 P.M. APRIL 7TH.
5. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.
6. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

HOLIDAYS AND HOLIDAY WEEKENDS SHALL INCLUDE NEW YEAR'S, ST. PATRICK'S DAY, EASTER, THANKSGIVING, AND CHRISTMAS. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT LANE CLOSURES WILL NOT BE REQUIRED DURING THESE PERIODS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW BOARDS AND MESSAGE BOARDS.
- F) 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.
- G) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

PAVEMENT MARKINGS AND MARKERS

- I) RECORD ALL LOCATIONS AND TYPES OF EXISTING PAVEMENT MARKINGS AS THEY WILL BE REPLACED IN THE SAME LOCATION ON THE NEW SURFACE.
- J) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	PAVEMENT MARKER
NC 58	POLYUREA	PERMANENT RAISED
- K) DO NOT USE POLYUREA MARKING ON TYPE S9.5A SURFACE COURSE.
- L) REPLACE ANY PAVEMENT MARKINGS ERADICATED OR DAMAGED BY CONSTRUCTION OPERATIONS BEFORE OPENING LANES TO TRAFFIC. A THIN LAYER OF PAINT MAY BE USED INITIALLY UNTIL FINAL MARKINGS ARE PLACED.

MISCELLANEOUS

- M) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- N) PLACE ALL CHANGEABLE MESSAGE SIGNS AS NEEDED IN THE LOCATIONS AND WITH THE WORD MESSAGES AS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER TO PROVIDE ADVANCE WARNING TO THE PUBLIC DURING CONSTRUCTION.
- O) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

PHASING

INSTALL PAVEMENT MARKINGS ALONG NC 58 FOR NO PASSING ZONE PRIOR TO IMPLEMENTING TEMPORARY SIGNALS.

USE FLAGGER CONTROLLED LANE CLOSURES TO REVISE MARKINGS AND TO SET UP TEMPORARY SIGNALS. REFER TO RDWY. STD. 1101.02, SHEET 1.

PERFORM ALL WORK ON BRIDGE USING TEMPORARY SIGNAL CONTROLLED LANE CLOSURES.


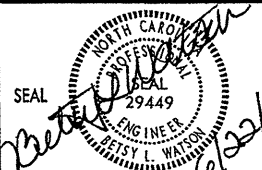
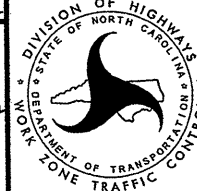
NC 58 NB WORK AREA, NORTH HALF OF BRIDGE SEE SHEETS TMP-3, 3A.

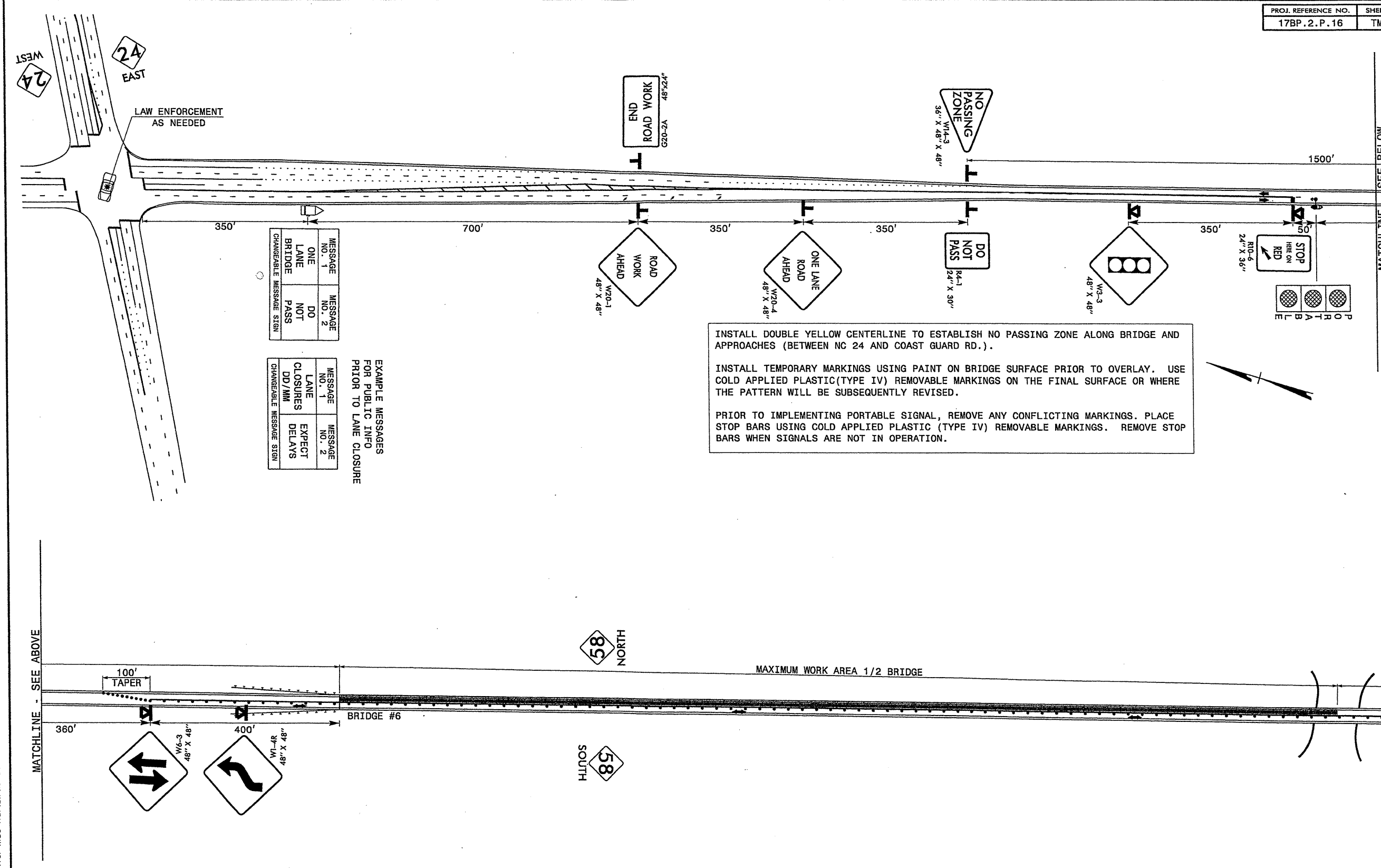
NC 58 NB WORK AREA, SOUTH HALF OF BRIDGE SEE SHEETS TMP-4, 4A.

NC 58 SB WORK AREA, NORTH HALF OF BRIDGE SEE SHEETS TMP-5, 5A.

NC 58 SB WORK AREA, SOUTH HALF OF BRIDGE SEE SHEETS TMP-6, 6A.

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<h3>GENERAL NOTES & PHASING</h3>			



MESSAGE NO. 1	MESSAGE NO. 2
ONE LANE BRIDGE	DO NOT PASS
LANE CLOSURE DD/MM	CHANGEBL MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
LANE CLOSURES DD/MM	EXPECT DELAYS
CHANGEBL MESSAGE SIGN	CHANGEBL MESSAGE SIGN

EXAMPLE MESSAGES FOR PUBLIC INFO PRIOR TO LANE CLOSURE

INSTALL DOUBLE YELLOW CENTERLINE TO ESTABLISH NO PASSING ZONE ALONG BRIDGE AND APPROACHES (BETWEEN NC 24 AND COAST GUARD RD.).

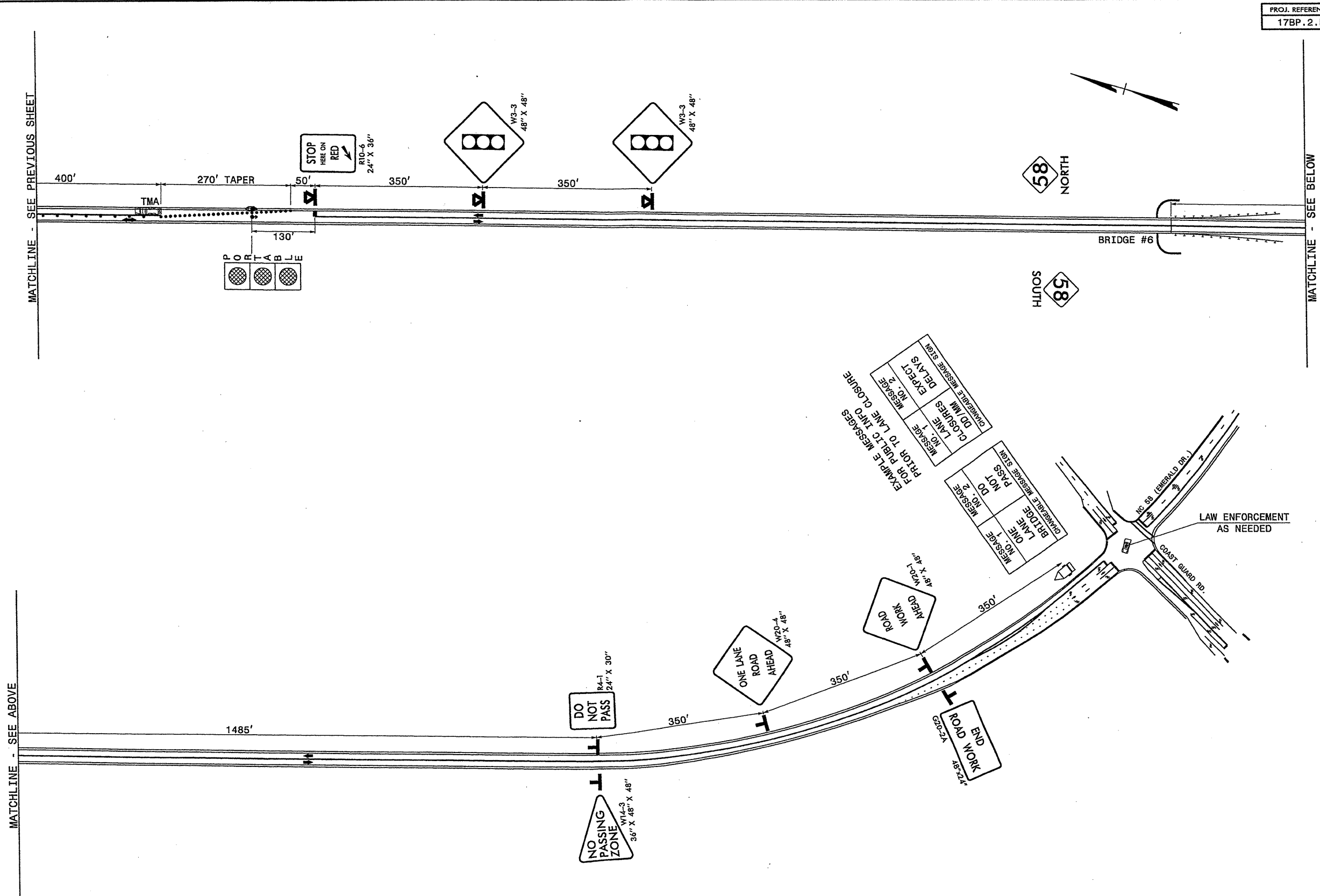
INSTALL TEMPORARY MARKINGS USING PAINT ON BRIDGE SURFACE PRIOR TO OVERLAY. USE COLD APPLIED PLASTIC (TYPE IV) REMOVABLE MARKINGS ON THE FINAL SURFACE OR WHERE THE PATTERN WILL BE SUBSEQUENTLY REVISED.

PRIOR TO IMPLEMENTING PORTABLE SIGNAL, REMOVE ANY CONFLICTING MARKINGS. PLACE STOP BARS USING COLD APPLIED PLASTIC (TYPE IV) REMOVABLE MARKINGS. REMOVE STOP BARS WHEN SIGNALS ARE NOT IN OPERATION.

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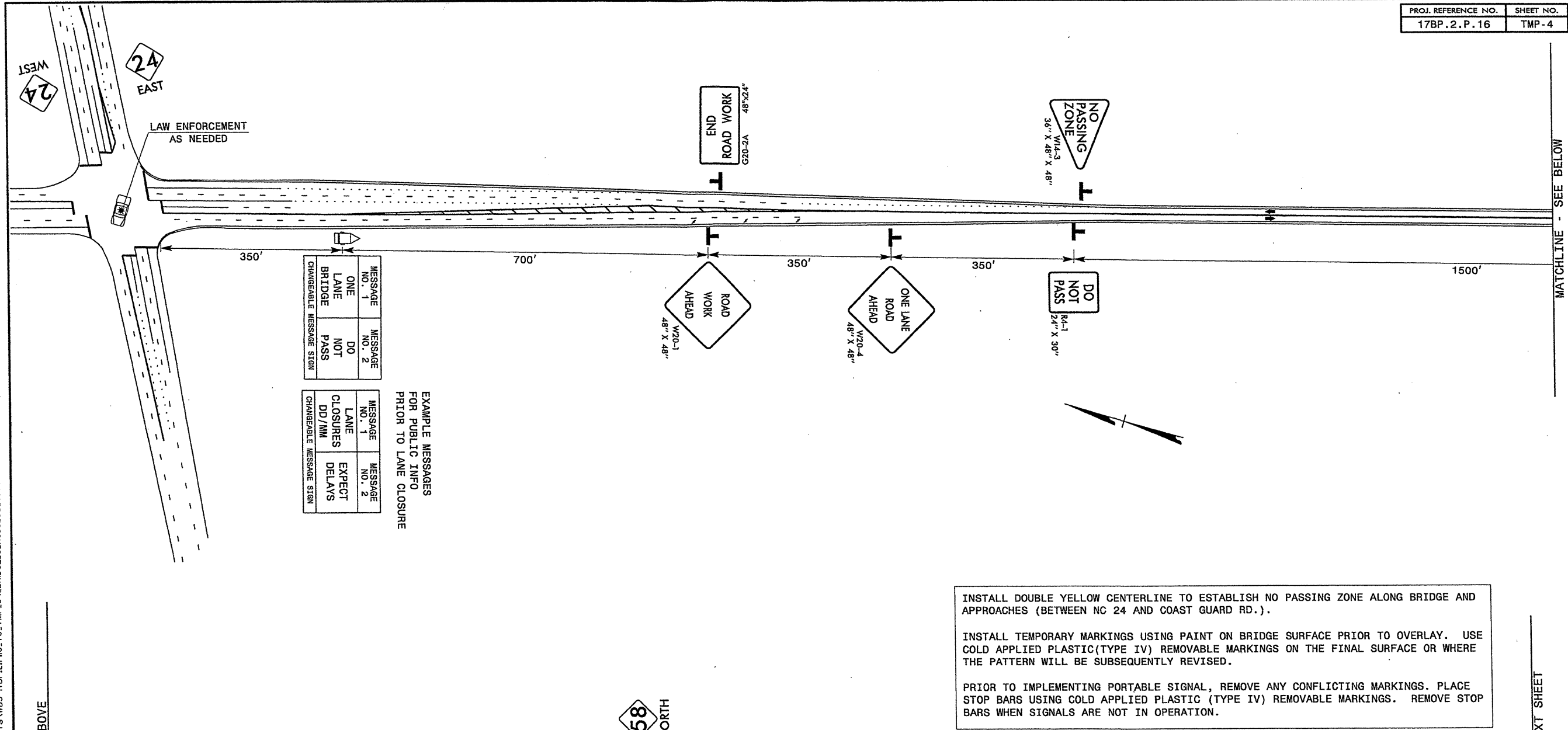


EXAMPLE MESSAGES FOR PUBLIC INFO PRIOR TO LANE CLOSURE

MESSAGE NO. 1	LANE CLOSURES	DO NOT PASS
MESSAGE NO. 2	EXPECT DELAYS	DO NOT PASS
CHANGEABLE MESSAGE SIGN	LANE CLOSURES	DO NOT PASS
MESSAGE NO. 1	BRIDGE	LANE CLOSURE
MESSAGE NO. 2	BRIDGE	LANE CLOSURE
CHANGEABLE MESSAGE SIGN	BRIDGE	LANE CLOSURE

LAW ENFORCEMENT AS NEEDED

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MESSAGE NO. 1 ONE LANE BRIDGE	MESSAGE NO. 2 LANE NOT PASS	MESSAGE NO. 1 LANE CLOSURES DD/MM	MESSAGE NO. 2 EXPECT DELAYS
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

EXAMPLE MESSAGES FOR PUBLIC INFO PRIOR TO LANE CLOSURE

INSTALL DOUBLE YELLOW CENTERLINE TO ESTABLISH NO PASSING ZONE ALONG BRIDGE AND APPROACHES (BETWEEN NC 24 AND COAST GUARD RD.).

INSTALL TEMPORARY MARKINGS USING PAINT ON BRIDGE SURFACE PRIOR TO OVERLAY. USE COLD APPLIED PLASTIC (TYPE IV) REMOVABLE MARKINGS ON THE FINAL SURFACE OR WHERE THE PATTERN WILL BE SUBSEQUENTLY REVISED.

PRIOR TO IMPLEMENTING PORTABLE SIGNAL, REMOVE ANY CONFLICTING MARKINGS. PLACE STOP BARS USING COLD APPLIED PLASTIC (TYPE IV) REMOVABLE MARKINGS. REMOVE STOP BARS WHEN SIGNALS ARE NOT IN OPERATION.

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MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW

MATCHLINE - SEE NEXT SHEET

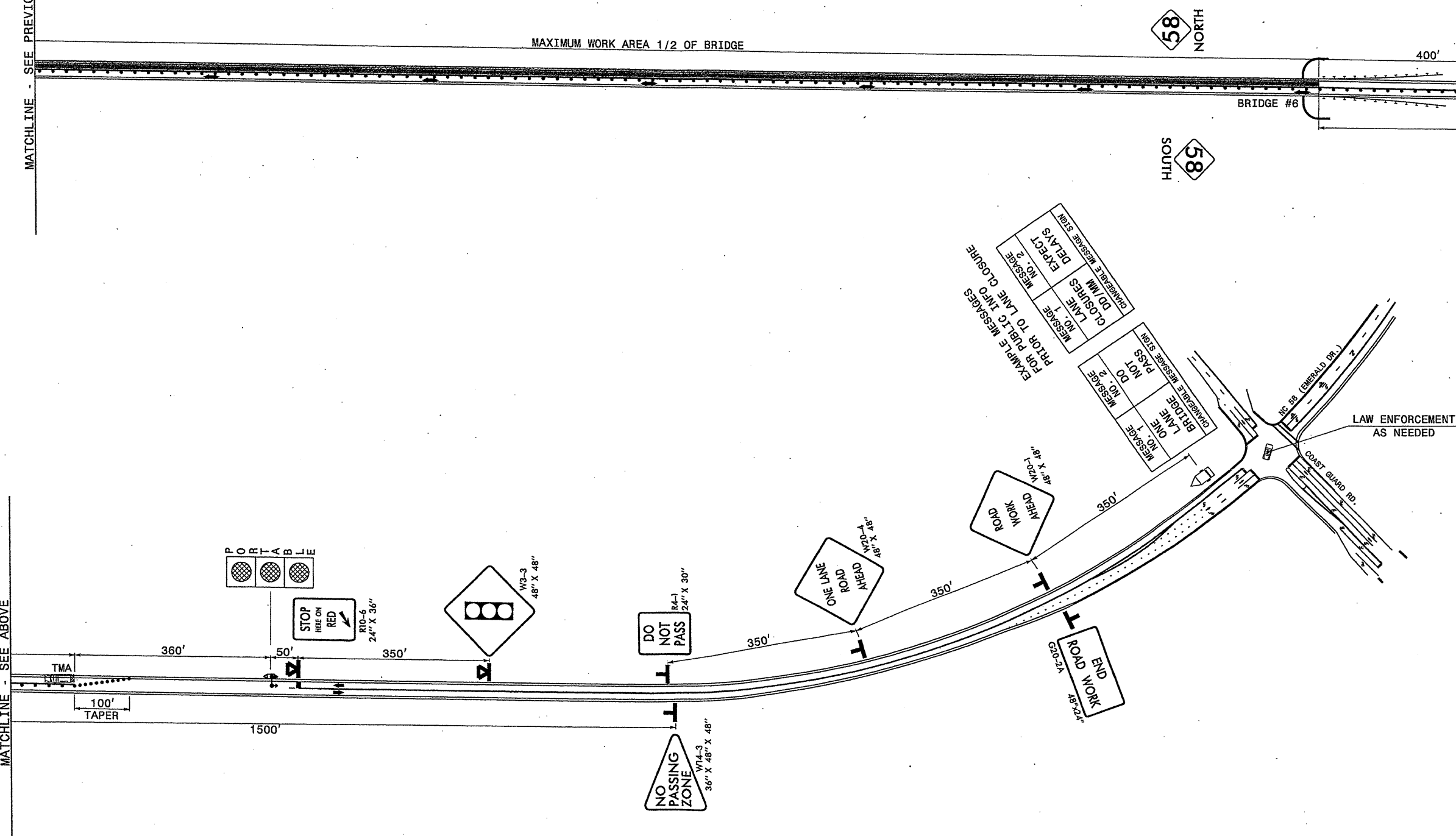
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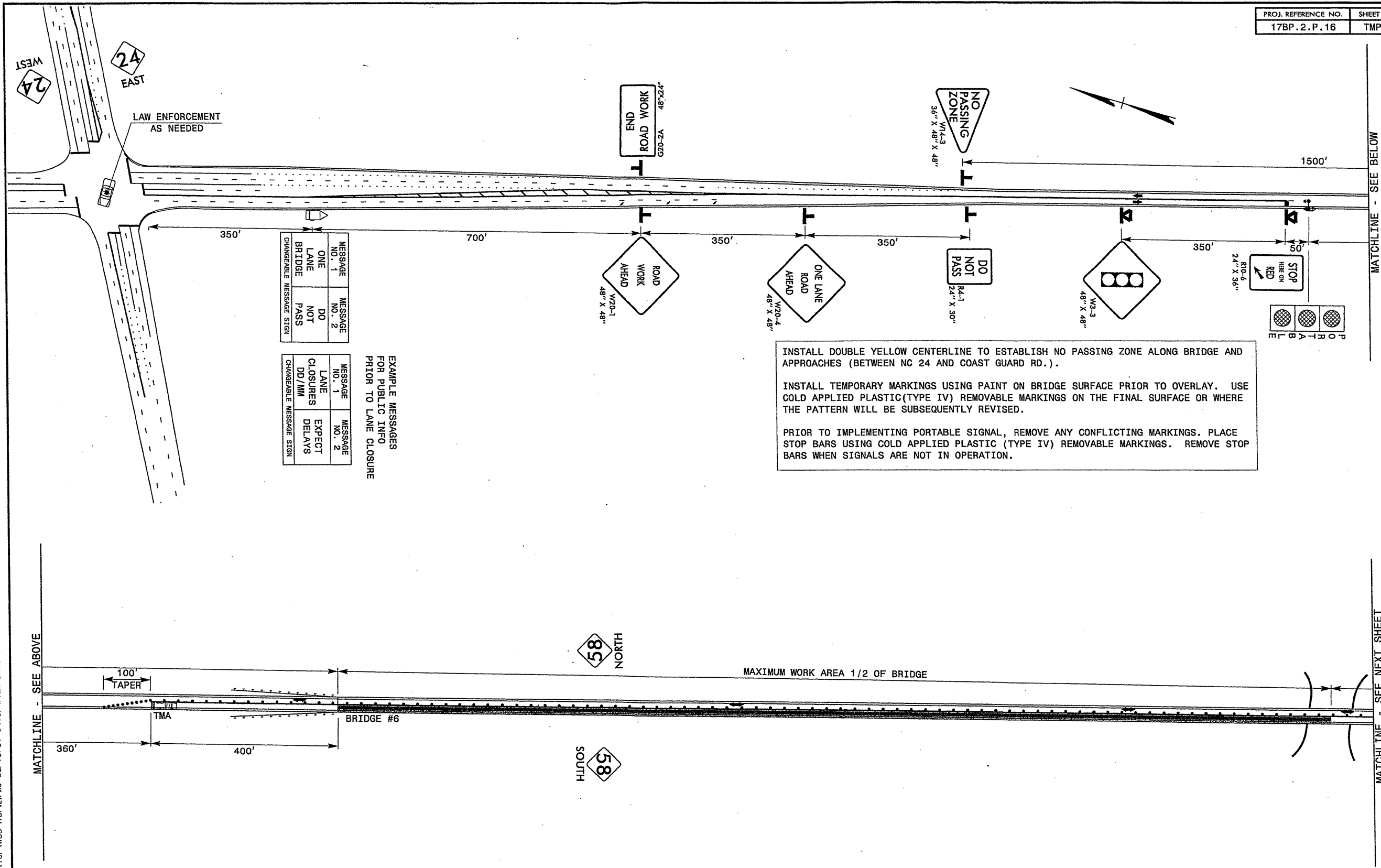
MATCHLINE - SEE PREVIOUS SHEET

MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW



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MESSAGE NO. 1	MESSAGE NO. 2
ONE LANE NOT PASS	DO NOT PASS
BRIDGE	PASS
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
LANE CLOSURES DD/MM	EXPECT DELAYS
CHANGEABLE MESSAGE SIGN	

EXAMPLE MESSAGES FOR PUBLIC INFO PRIOR TO LANE CLOSURE

INSTALL DOUBLE YELLOW CENTERLINE TO ESTABLISH NO PASSING ZONE ALONG BRIDGE AND APPROACHES (BETWEEN NC 24 AND COAST GUARD RD.).

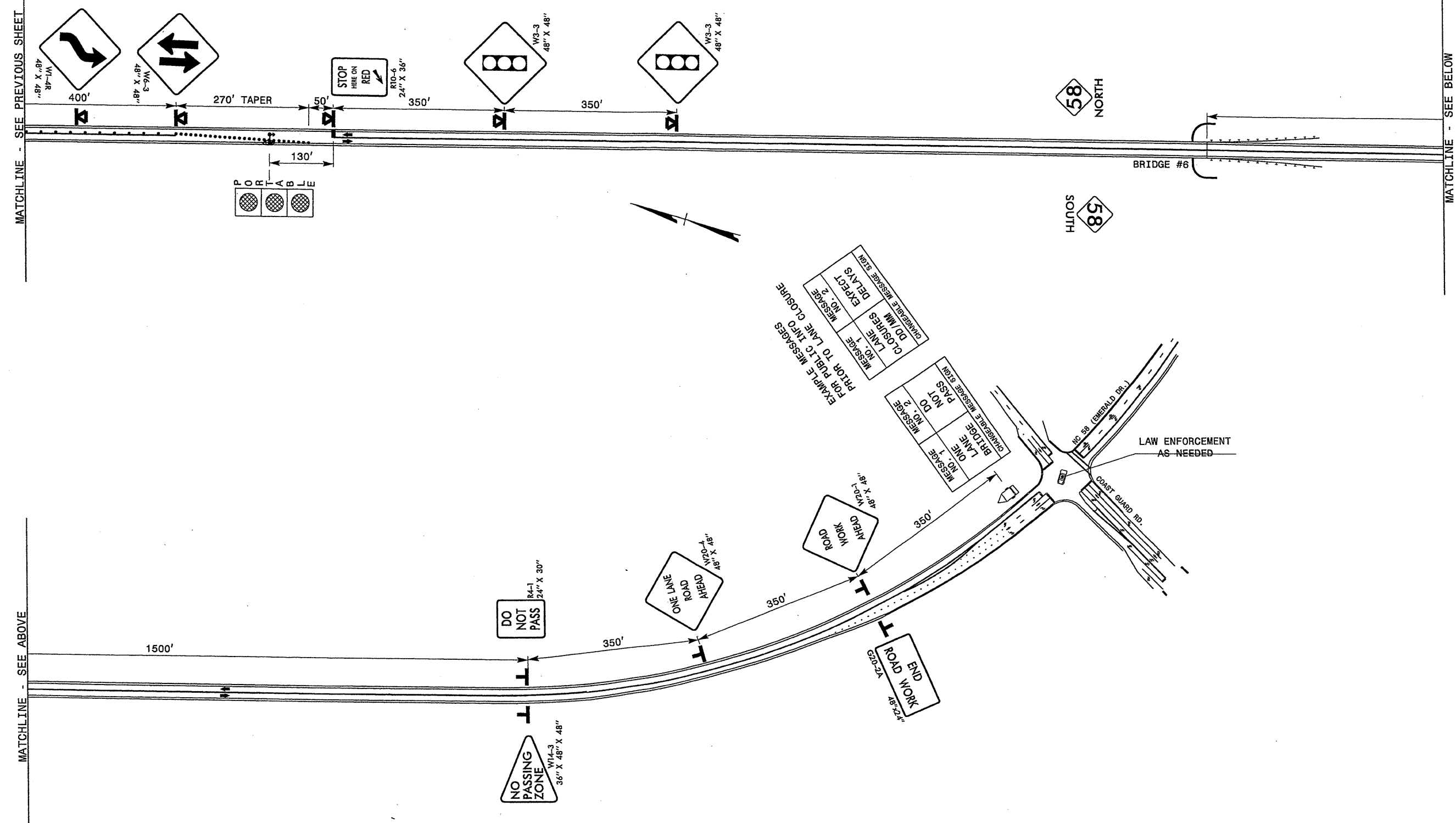
INSTALL TEMPORARY MARKINGS USING PAINT ON BRIDGE SURFACE PRIOR TO OVERLAY. USE COLD APPLIED PLASTIC (TYPE IV) REMOVABLE MARKINGS ON THE FINAL SURFACE OR WHERE THE PATTERN WILL BE SUBSEQUENTLY REVISED.

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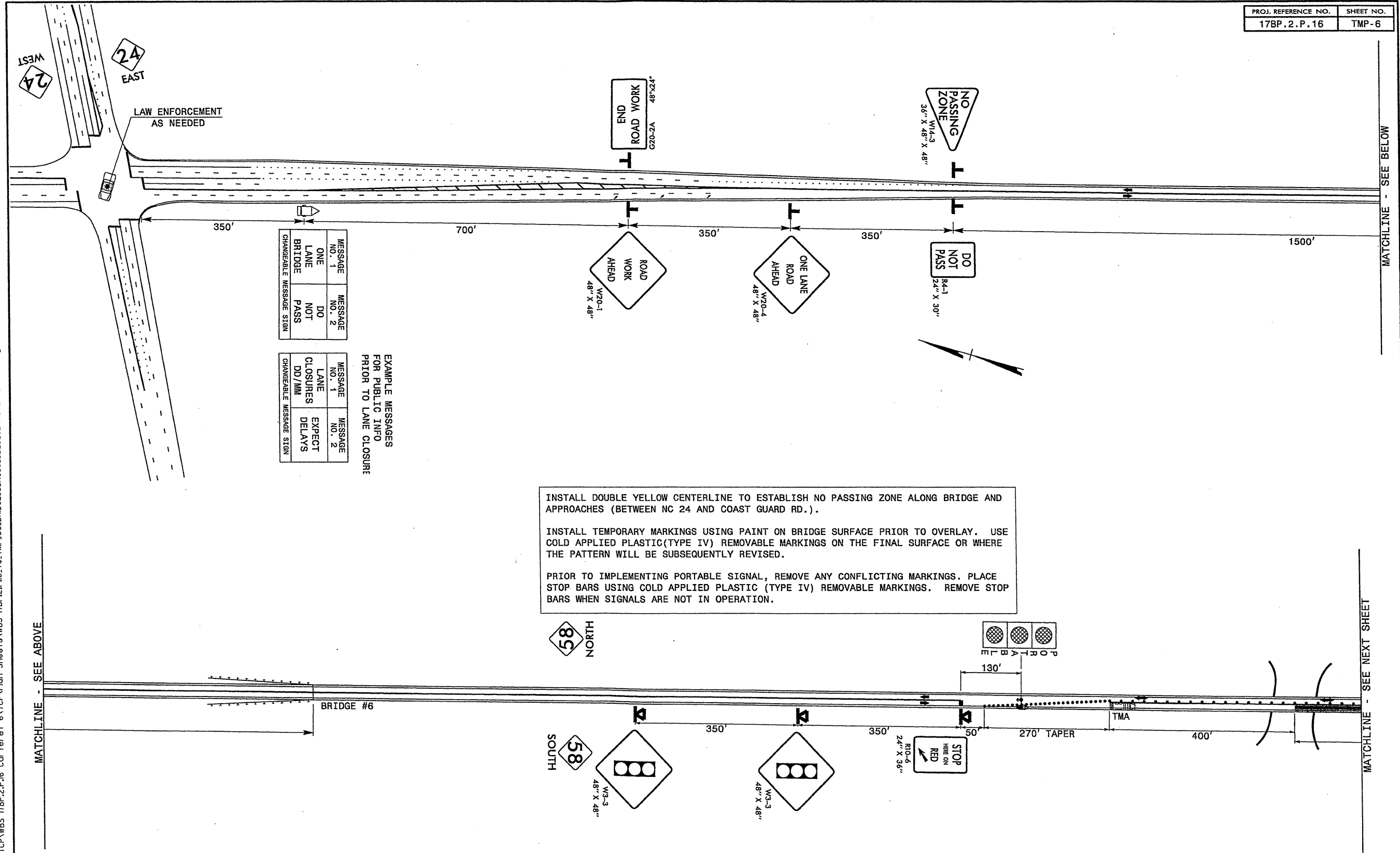
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	SEAL 		



MESSAGE NO. 1	MESSAGE NO. 2
ONE LANE BRIDGE	DO NOT PASS
CHANGEABLE MESSAGE SIGN	

MESSAGE NO. 1	MESSAGE NO. 2
LANE CLOSURES DD/MM	EXPECT DELAYS
CHANGEABLE MESSAGE SIGN	

EXAMPLE MESSAGES FOR PUBLIC INFO PRIOR TO LANE CLOSURE

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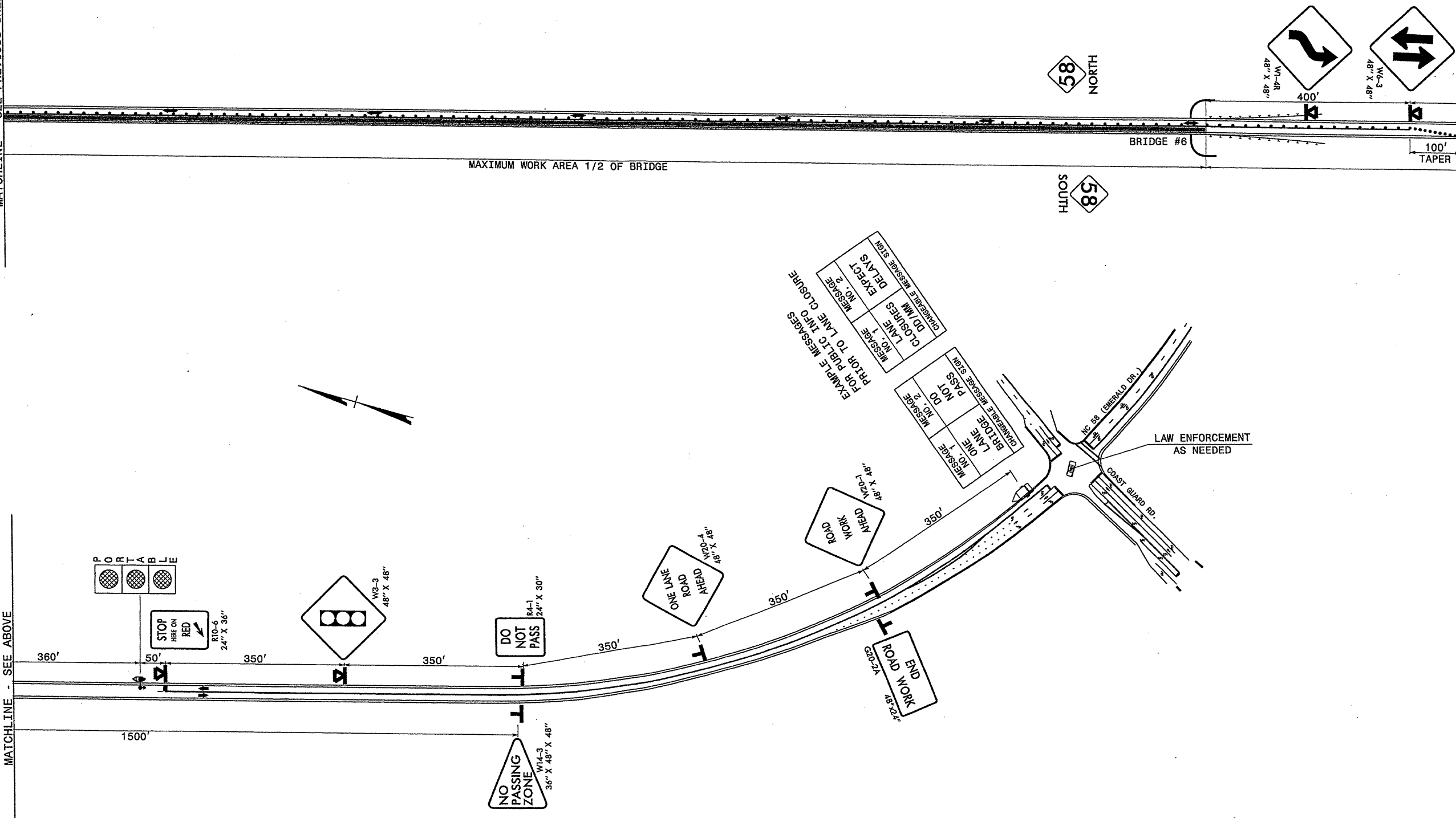
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	SEAL: _____ 05/23/12		

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MATCHLINE - SEE PREVIOUS SHEET

MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW



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STANDARD NOTES

DESIGN DATA:

SPECIFICATIONS	-----	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	-----	SEE PLANS
IMPACT ALLOWANCE	-----	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF		
STRUCTURAL STEEL - AASHTO M270 GRADE 36	-	20,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50W	-	27,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50	-	27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION		
	GRADE 60	-- 24,000 LBS. PER SQ. IN.
CONCRETE IN COMPRESSION	-----	1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR	-----	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR		
UNTREATED - EXTREME FIBER STRESS	-----	1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	-----	375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH	-----	30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2006 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N.C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE. ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS. VERTICAL CURVE ORDNATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDNATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE 3/4" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

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