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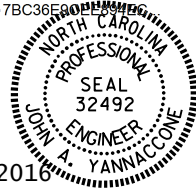
**TOTAL BILL OF MATERIAL**

| CATAWBA COUNTY<br>BRIDGE NO. | POLLUTION CONTROL | CLEANING AND REPAINTING<br>OF BRIDGE #___ | PAINTING CONTAINMENT<br>FOR BRIDGE #___ |
|------------------------------|-------------------|---|---|
|                              | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 32                           | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 123                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 68                           | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 149                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 161                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 165                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 168                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |
| 170                          | LUMP SUM          | LUMP SUM                                  | LUMP SUM                                |

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 32, 123, 68, 149,  
161, 165, 168, 170

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**TOTAL  
BILL OF MATERIAL**

DocuSigned by:  
*John A. Yannaccone*  
 7BC36E00E1B466  
  
 1/12/2016

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-1          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNAKONE DATE : 08/15



LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION, ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

NOTES

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

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FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

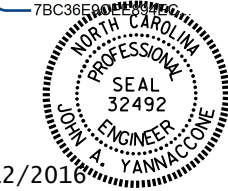
FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 32

SHEET 1 OF 2

DocuSigned by:

*John A. Yannaccone*

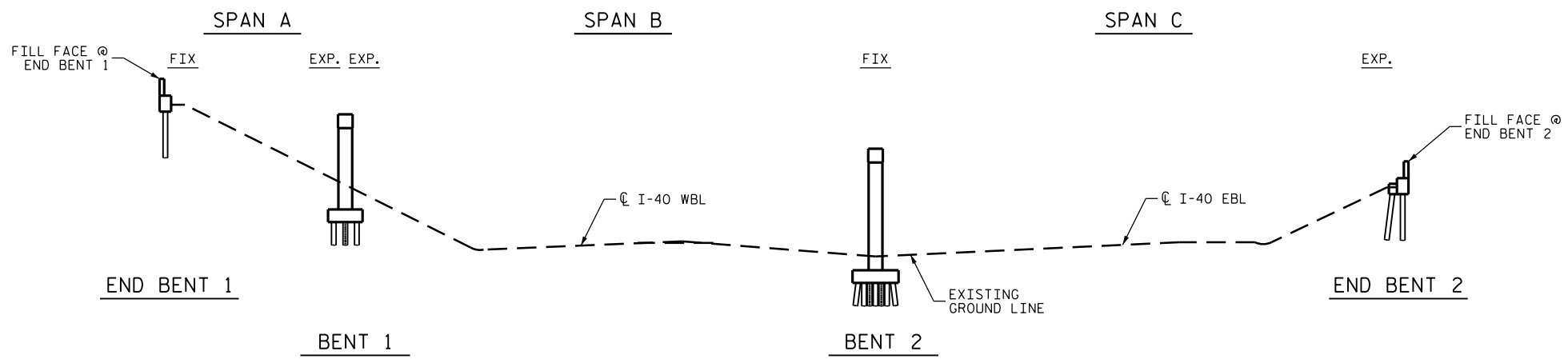


STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 FOR BRIDGE ON SR 1124  
 (OLD SHELBY ROAD)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONE DATE : 08/15

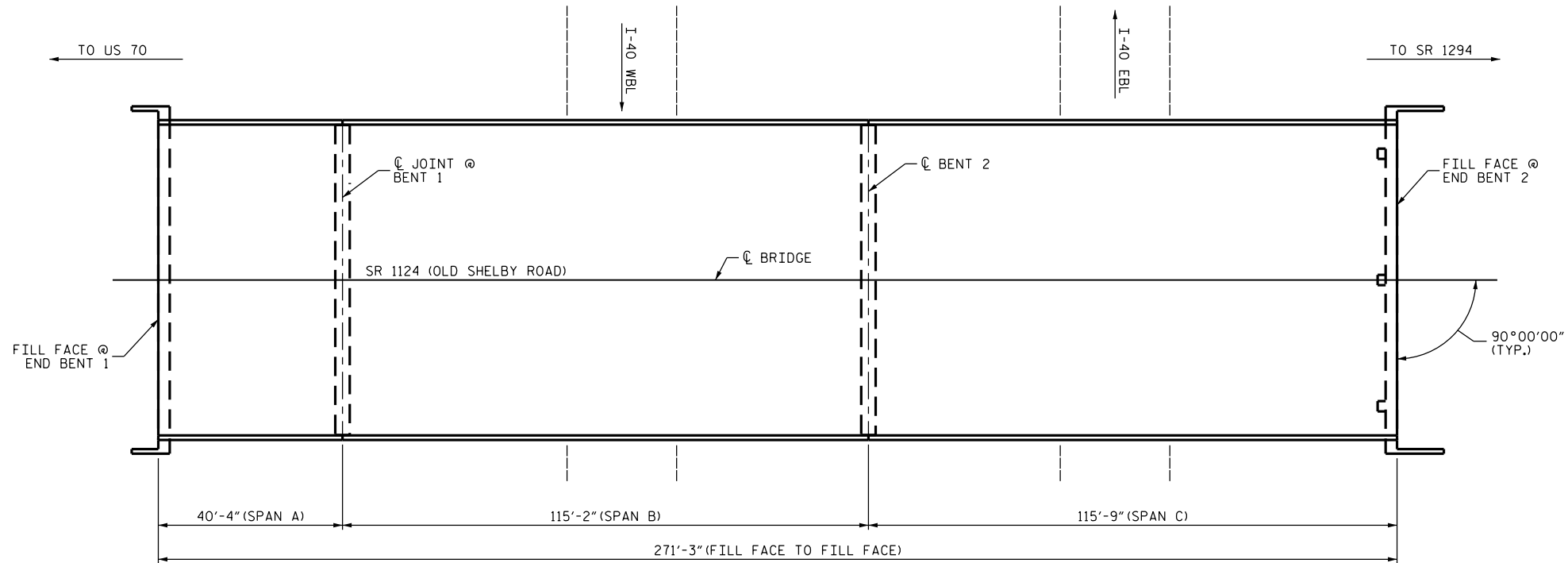
DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-2          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



SECTION ALONG CL OF ROADWAY

NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 01/19/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 32

SHEET 2 OF 2

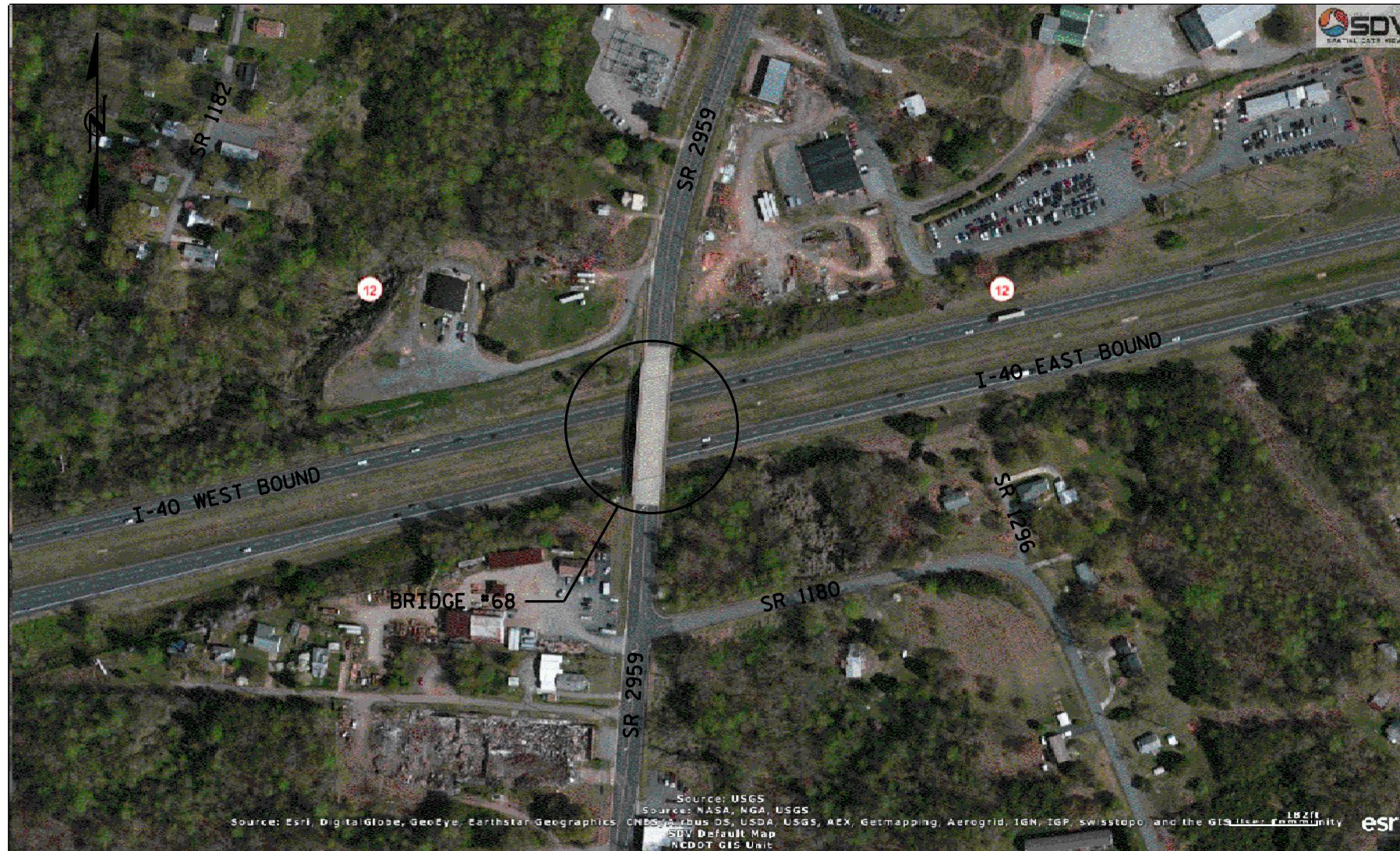
DocuSigned by:  
*John A. Yannaccone*  
 7BC36500000000000000000000000000  
 NORTH CAROLINA PROFESSIONAL SEAL 32492  
 JOHN A. YANNACCONE  
 1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 FOR BRIDGE ON SR 1124  
 (OLD SHELBY ROAD)  
 OVER I-40

|              |               |        |       |
|--------------|---------------|--------|-------|
| DRAWN BY :   | R. PUTEK      | DATE : | 08/15 |
| CHECKED BY : | J. YANNACCONE | DATE : | 08/15 |

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| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-3          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



LOCATION SKETCH

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FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

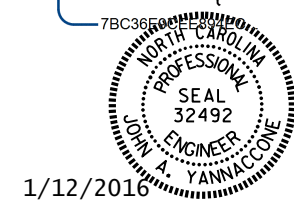
FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 68

SHEET 1 OF 2

DocuSigned by:  
*John A. Yannaccone*

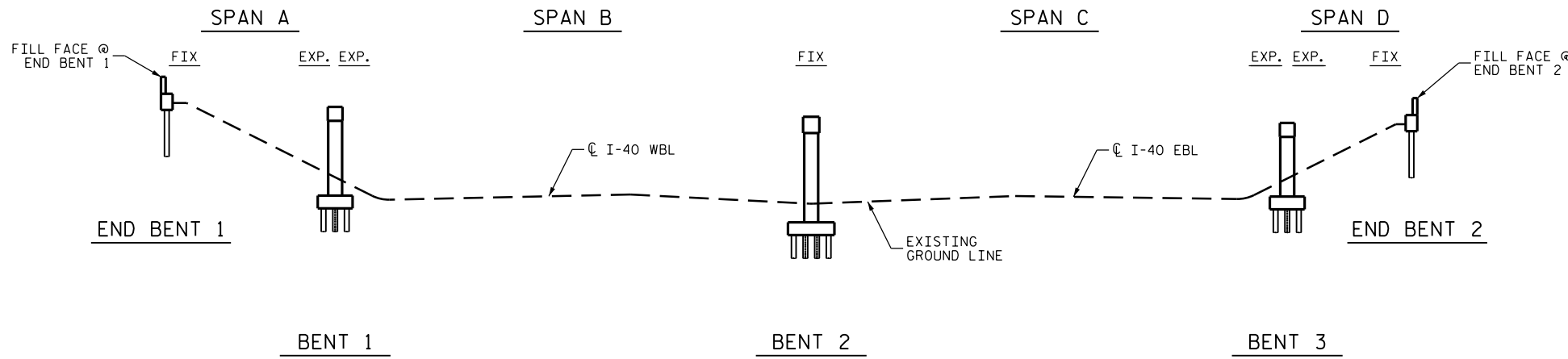


STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 2959  
 (S. CENTER STREET)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONE DATE : 08/15

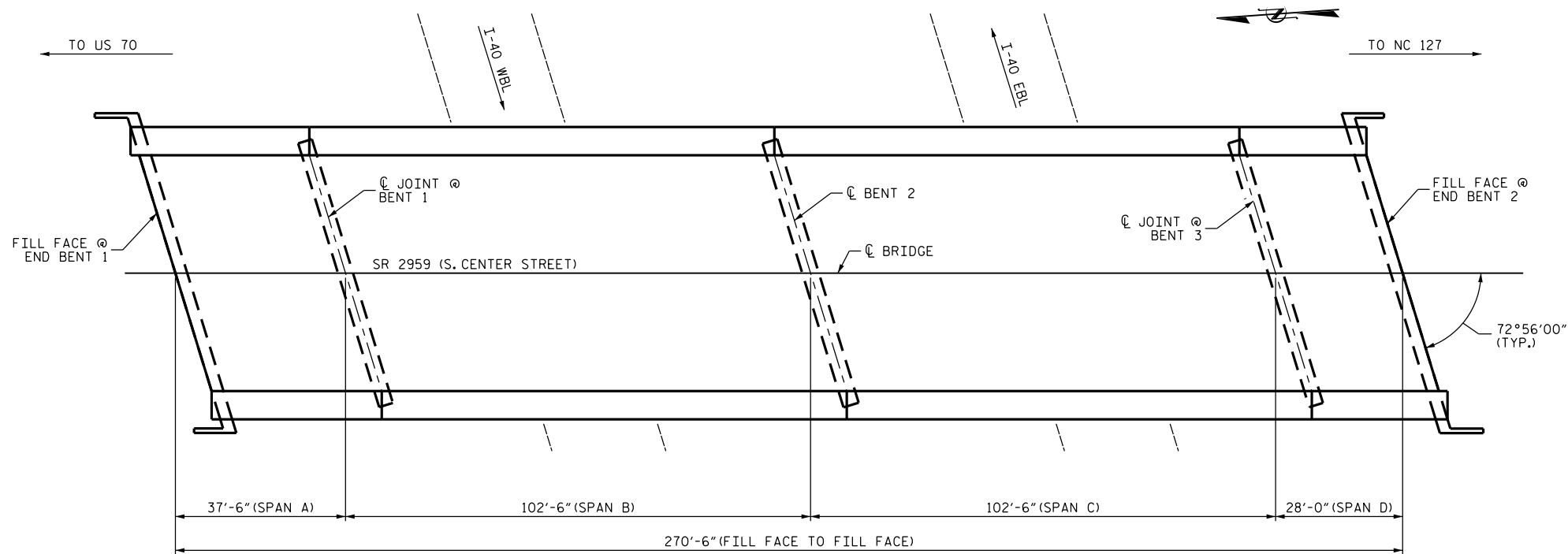
DOCUMENT NOT CONSIDERED  
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 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-4          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



SECTION ALONG CL OF ROADWAY

NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 03/10/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 68

DocuSigned by:  
*John A. Yannaccone*  
 7BC36E90B0B0B0B0B0B0B0B0B0B0B0B0  
 NORTH CAROLINA PROFESSIONAL SEAL 32492  
 JOHN A. YANNACCONE  
 1/12/2016

SHEET 2 OF 2  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 2959  
 (S. CENTER STREET)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONE DATE : 08/15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-5          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



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- FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.
- FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.
- FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 123

SHEET 1 OF 2

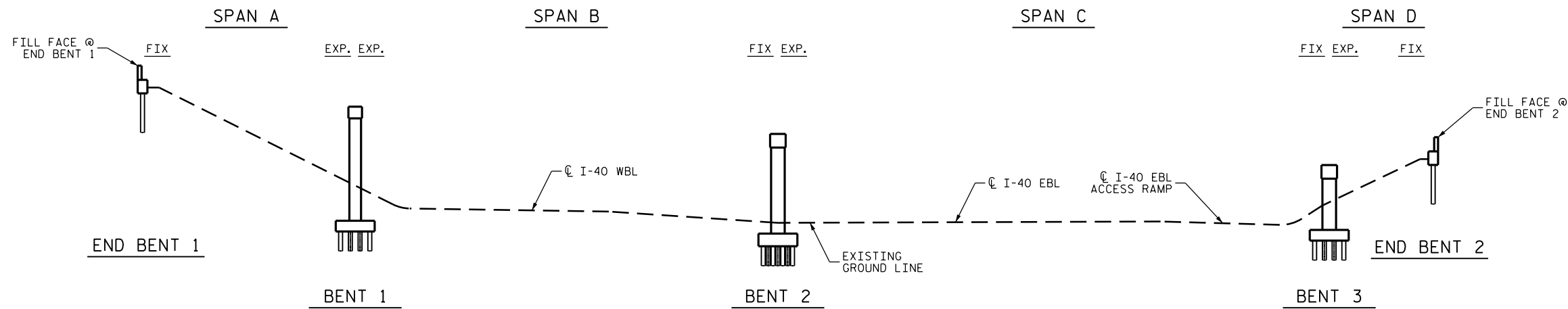
DocuSigned by:  
*John A. Yannaccone*  
 7BC38500-4E50-4000-9000-000000000000  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 32492  
 JOHN A. YANNACCONE  
 ENGINEER  
 1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 FOR BRIDGE ON NC 127  
 (2nd STREET SW)  
 OVER I-40

DRAWN BY : R.PUTEK DATE : 08/15  
 CHECKED BY : J.YANNACCONE DATE : 08/15

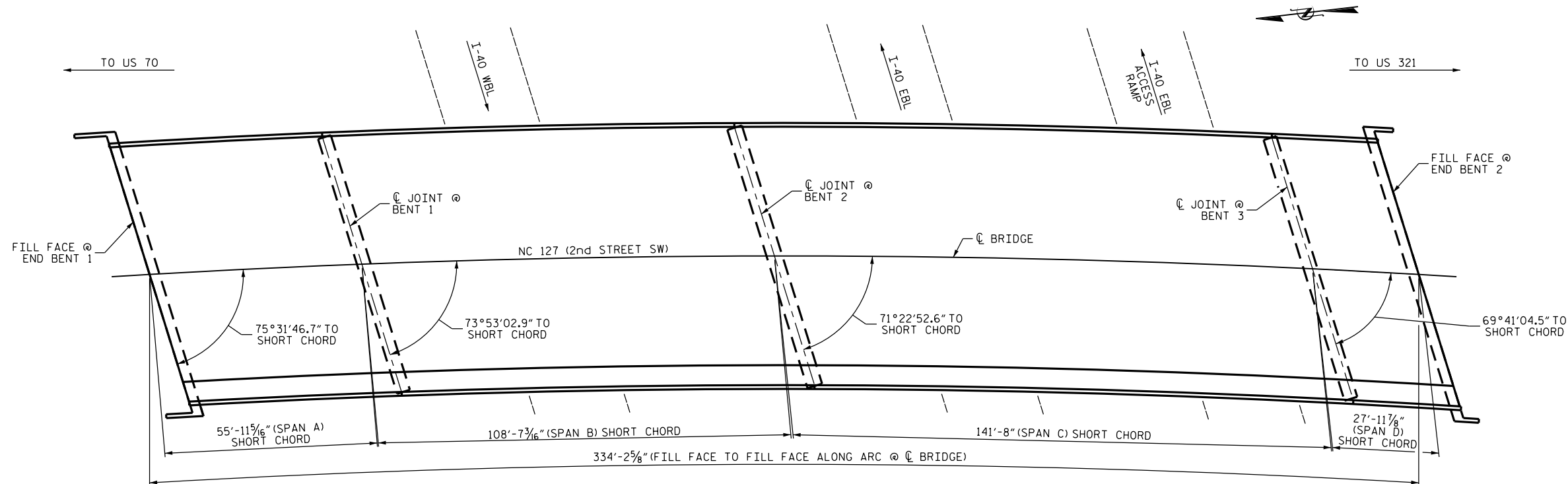
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| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED



SECTION ALONG CL OF ROADWAY

NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 03/23/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 123

SHEET 2 OF 2

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

DocuSigned by:  
*John A. Yannaccone*  
 7BC36E...  
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32492  
 JOHN A. YANNACCONI  
 1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 FOR BRIDGE ON NC 127  
 (2nd STREET SW)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-7          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

12-JAN-2016 11:48  
 R:\Structures\Final Drawings\BP-5500\_Catawba\_32\_SD.dgn  
 Jayannaccone





LOCATION SKETCH

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FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E

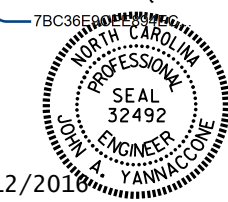
CATAWBA COUNTY

BRIDGE NO. 149

SHEET 1 OF 2

DocuSigned by:

*John A. Yannaccone*



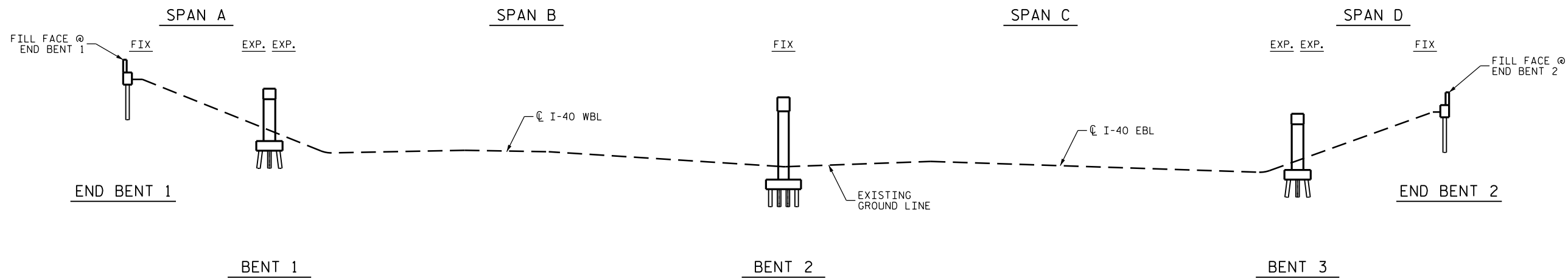
1/12/2018

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
GENERAL DRAWING FOR  
BRIDGE ON SR 1462  
(10th AVENUE DR. SE)  
OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
CHECKED BY : J. YANNACCONE DATE : 08/15

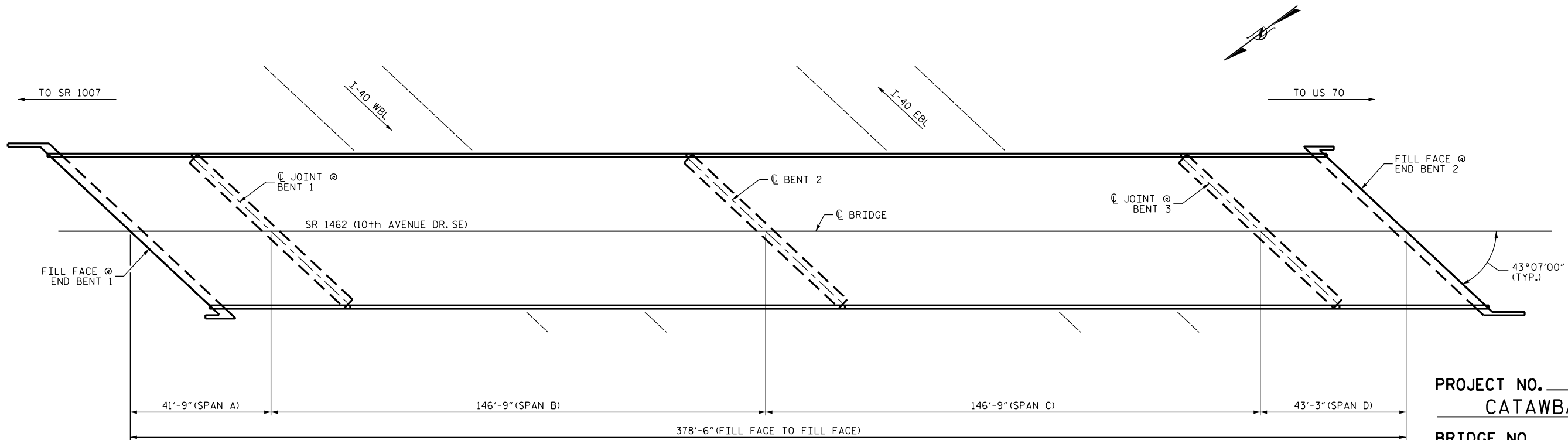
DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1         |     |       | 3   |     |       | 17           |
| 2         |     |       | 4   |     |       |              |



SECTION ALONG  $\varnothing$  OF ROADWAY

NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/29/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 149

DocuSigned by:  
*John A. Yannaccone*  
 7BC36E...  
 NORTH CAROLINA PROFESSIONAL SEAL 32492  
 JOHN A. YANNACCONI  
 ENGINEER  
 1/12/2016

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

GENERAL DRAWING FOR  
 BRIDGE ON SR 1462  
 (10th AVENUE DR. SE)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-9          |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



LOCATION SKETCH

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FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

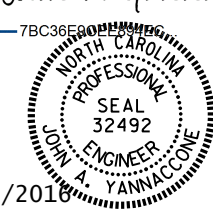
FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 161

SHEET 1 OF 2

DocuSigned by:  
*John A. Yannaccone*

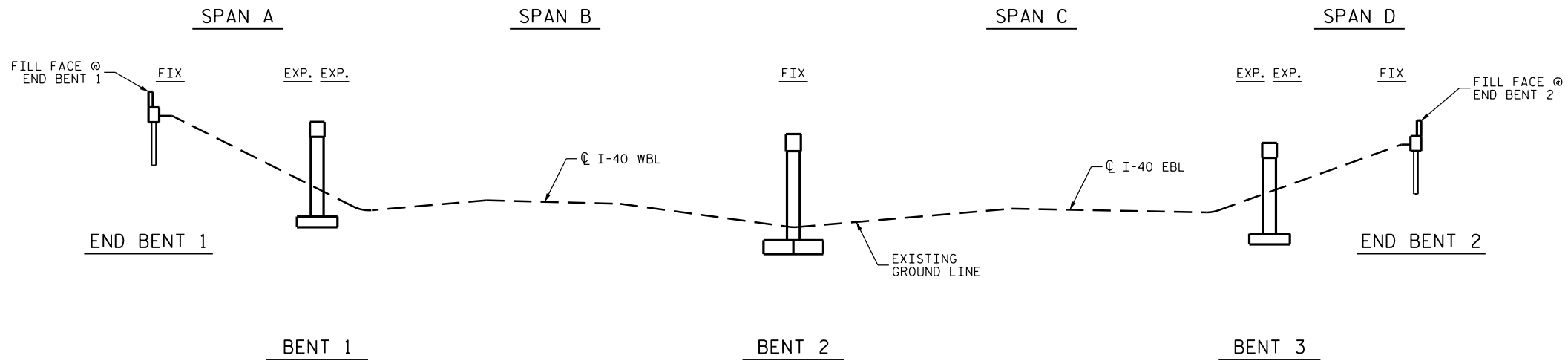


STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1007  
 (LENOIR RHYNE BLVD.)  
 OVER I-40

DRAWN BY : R.PUTEK DATE : 08/15  
 CHECKED BY : J.YANNACCONE DATE : 08/15

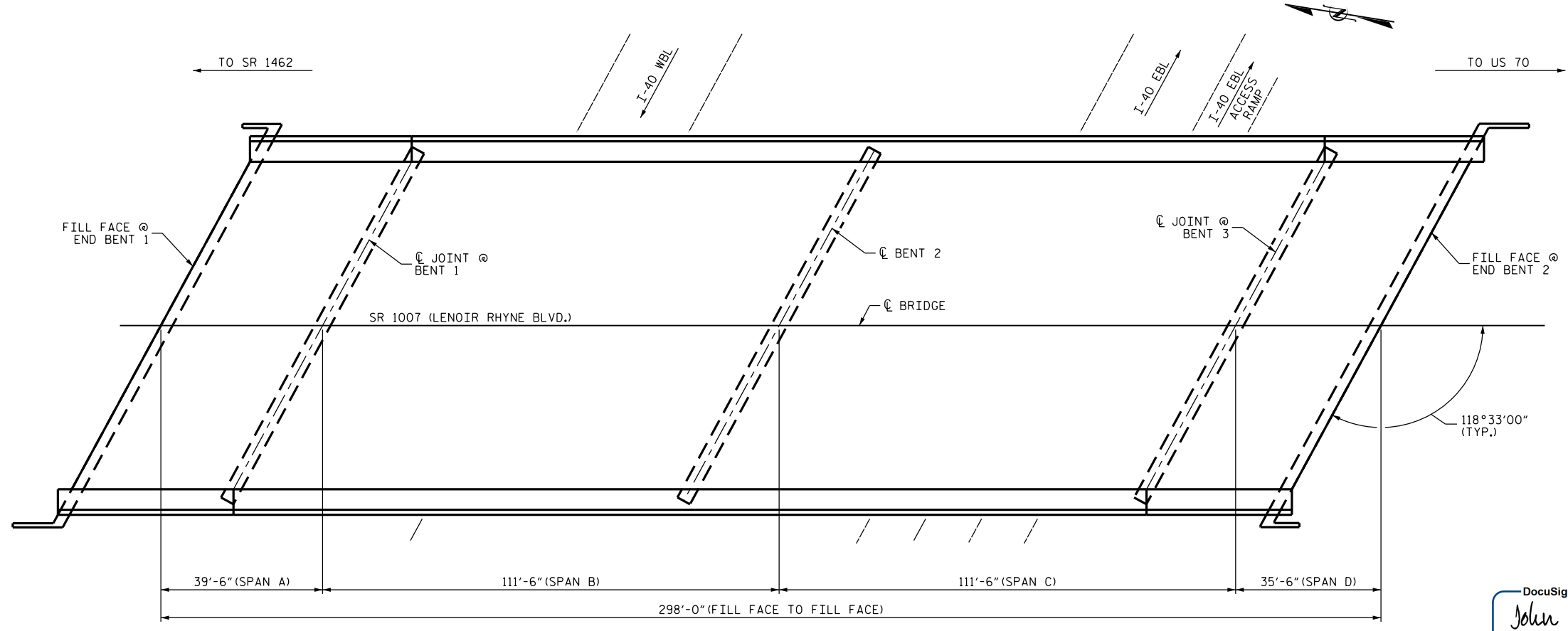
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| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-10         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



SECTION ALONG  $\text{CL}$  OF ROADWAY

NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 04/07/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 161

SHEET 2 OF 2

DocuSigned by:  
*John A. Yannaccone*  
 7BC38E...  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 32492  
 JOHN A. YANNACCONI  
 1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1007  
 (LENOIR RHYNE BLVD.)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-11         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
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FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

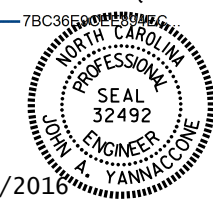
FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 165

SHEET 1 OF 2

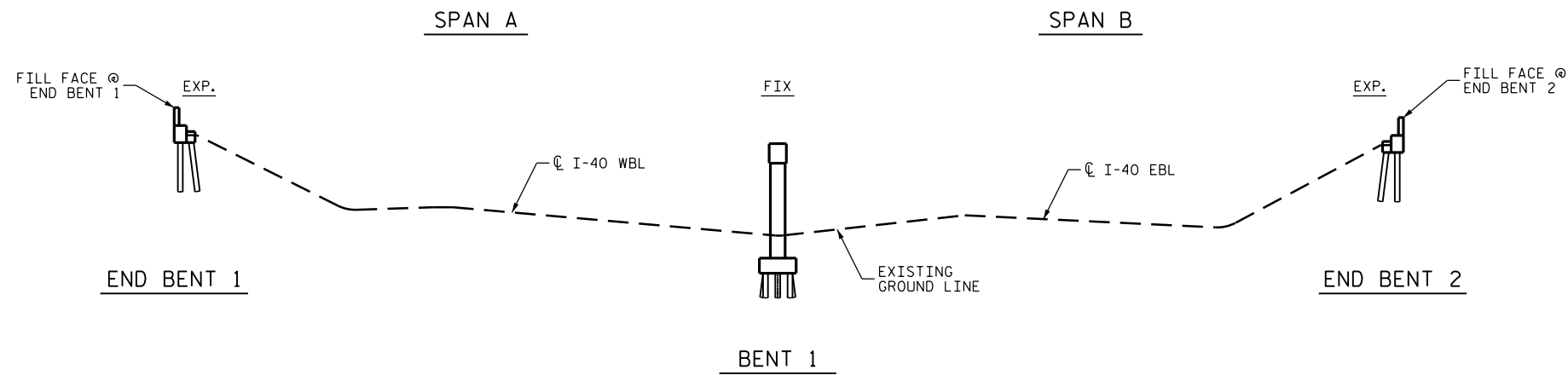
DocuSigned by:  
*John A. Yannaccone*



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1468  
 (21st STREET DR. SE)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONE DATE : 08/15

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-12         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

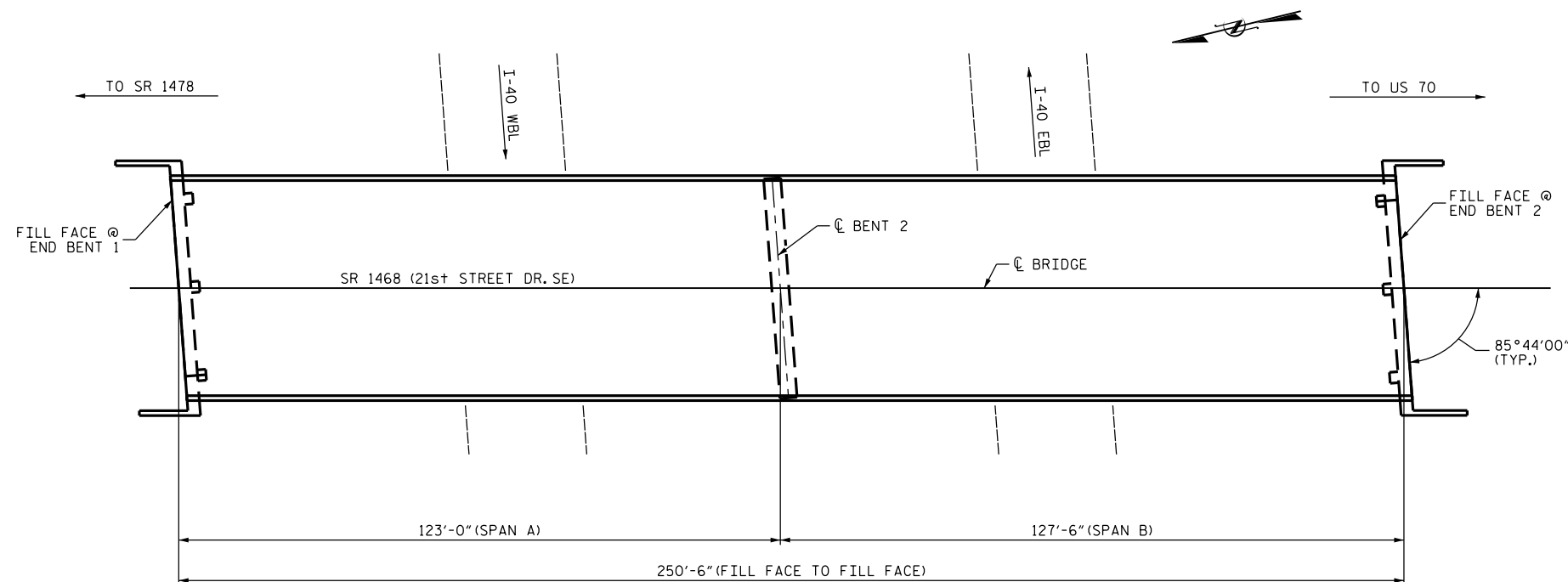


SECTION ALONG  $\text{CL}$  OF ROADWAY

NOTE:

THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/29/2015.

BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

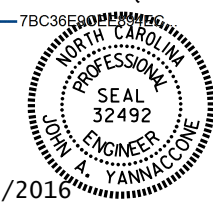
- CLEAN AND PAINT STEEL GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 165

SHEET 2 OF 2

DocuSigned by:

*John A. Yannaccone*



1/12/2016

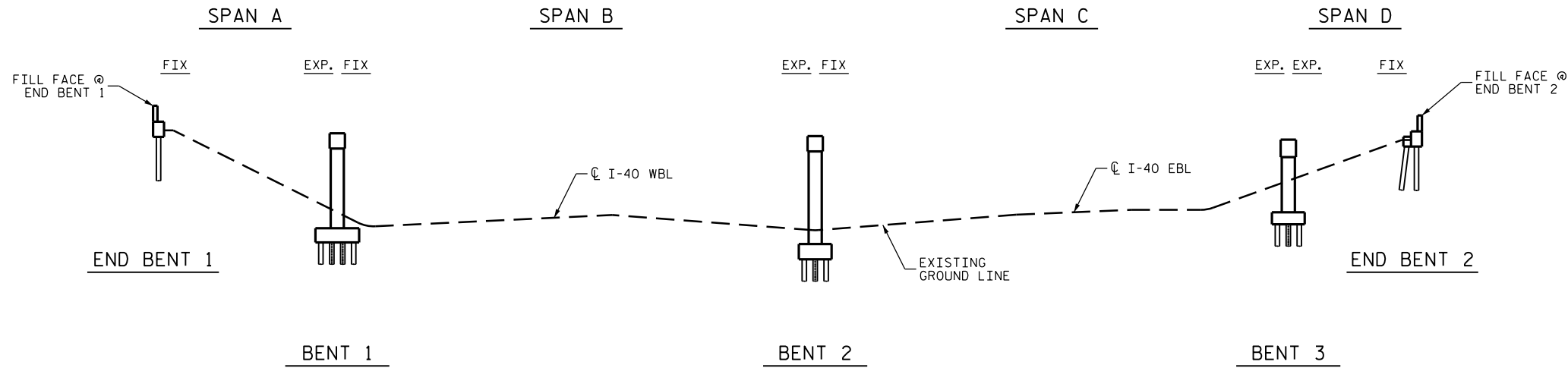
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1468  
 (21st STREET DR. SE)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNAKONE DATE : 08/15

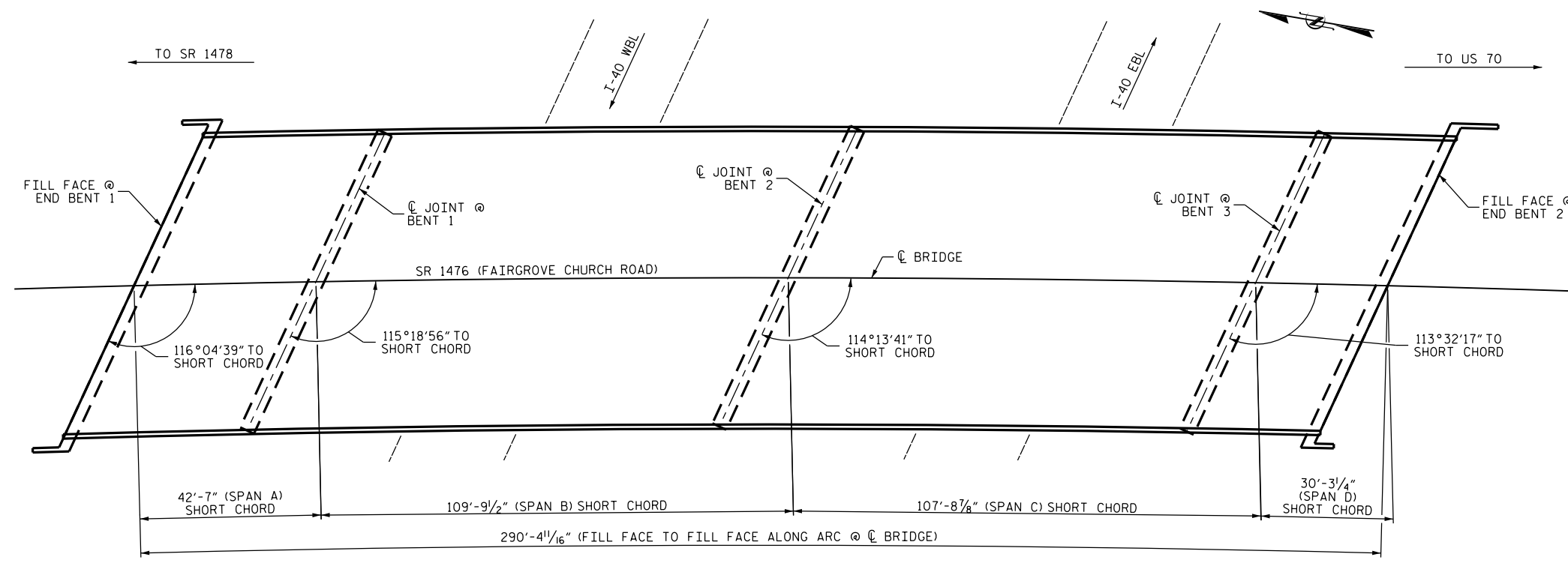
DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-13         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |





NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 04/07/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 168

SHEET 2 OF 2  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1476  
 (FAIRGROVE CHURCH RD.)  
 OVER I-40

DocuSigned by:  
*John A. Yannaccone*  
 7BC36500000000000000000000000000  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 32492  
 JOHN A. YANNACCONI  
 ENGINEER  
 1/12/2016

SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-15         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

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**LOCATION SKETCH**

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION, ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

**NOTES**

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

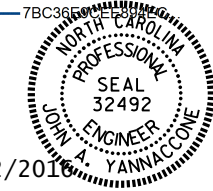
FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 170

SHEET 1 OF 2

DocuSigned by:

*John A. Yannaccone*



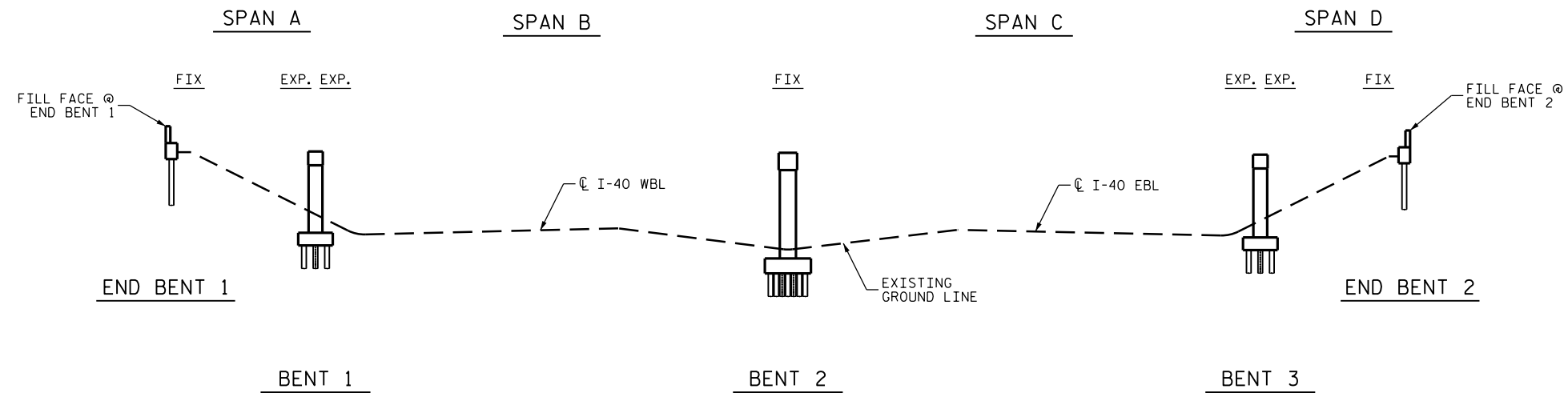
1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1007  
 (1st STREET W)  
 OVER I-40

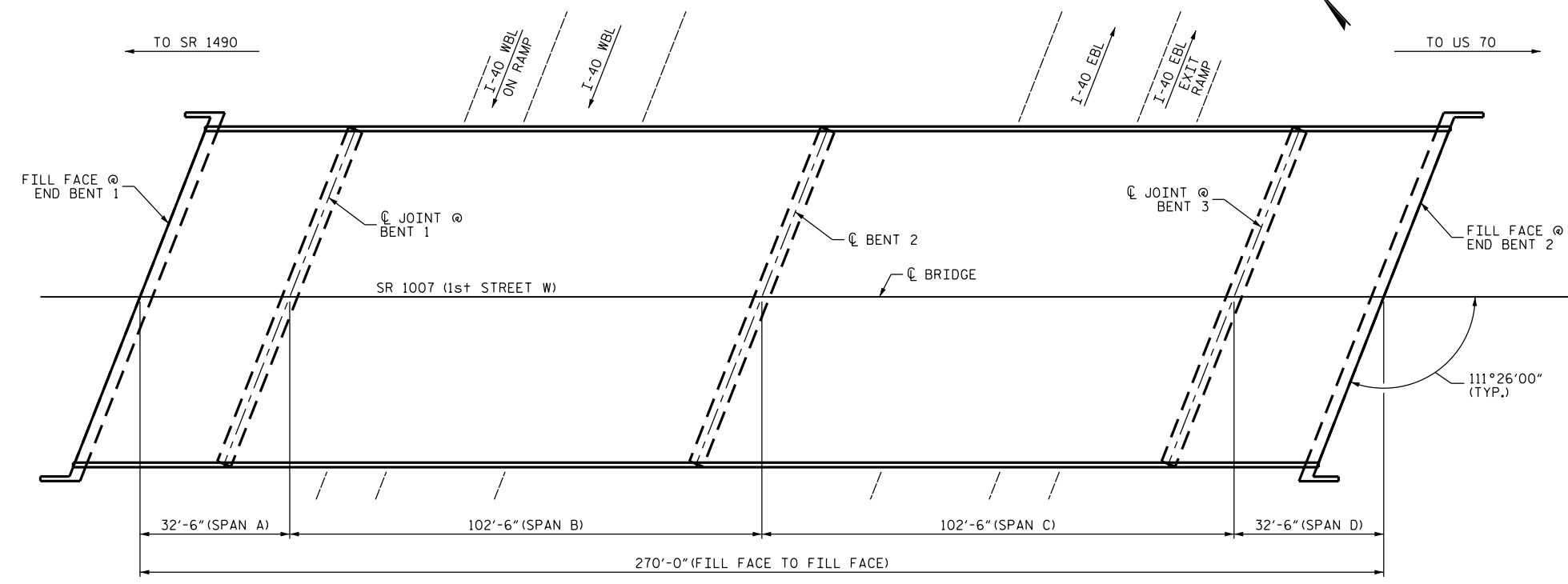
DRAWN BY : R.PUTEK DATE : 08/15  
 CHECKED BY : J.YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-16         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |



NOTE:  
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 06/29/2015.  
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



**PLAN**

**SCOPE OF WORK**

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500E  
CATAWBA COUNTY  
 BRIDGE NO. 170

SHEET 2 OF 2

DocuSigned by:  
*John A. Yannaccone*  
 7BC38500-4E50-4000-9000-000000000000  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 32492  
 JOHN A. YANNACCONE  
 1/12/2016

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE ON SR 1007  
 (1st STREET W)  
 OVER I-40

DRAWN BY : R. PUTEK DATE : 08/15  
 CHECKED BY : J. YANNACCONE DATE : 08/15

DOCUMENT NOT CONSIDERED  
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| REVISIONS |     |       |     |     |       | SHEET NO.    |
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| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-17         |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 17           |

## 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<br>OF TIMBER | ----- | 375 LBS. PER SQ. IN.             |
| EQUIVALENT FLUID PRESSURE OF EARTH              | ----- | 30 LBS. PER CU. FT.<br>(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 2012 "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 ORDINATE, 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 ORDINATE, 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.

# ENGLISH

JANUARY, 1990

STD. NO. SN