



NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP REPAIR. AWS REMOVED

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ASHE BRIDGE NUMBER 040187 INSPECTION CYCLE 2 YRS  
ROUTE SR1100 ACROSS THREE TOP CREEK M.P. 0

LOCATION 25 FT.JCT.E.SR1121

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.POST&SILLS @ VAR.CENTERS

SPANS 1 @ 40'-6

LONGITUDE 81° 37' 25.13"

LATITUDE 36° 25' 40.85"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 06/27/2012

OPERATING RATING

PRESENT POSTING SV 24 TTST 29

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN. 2 NARROW BR.



LOOKING NORTH

| SIGN NOTICE<br>ISSUED FOR |                 | NUMBERED<br>REQUIRED |
|---------------------------|-----------------|----------------------|
| No                        | WEIGHT LIMIT    |                      |
| No                        | DELINEATORS     |                      |
| No                        | NARROW BRIDGE   |                      |
| No                        | ONE LANE BRIDGE |                      |
| No                        | LOW CLEARANCE   |                      |

## NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 07/23/2012

| IDENTIFICATION                             |                              |                       |                | CLASSIFICATION                         |                                |                       |      |
|--------------------------------------------|------------------------------|-----------------------|----------------|----------------------------------------|--------------------------------|-----------------------|------|
| (1) STATE NAME -NORTH CAROLINA             | BRIDGE                       | 040187                |                | SUFFICIENCY RATING =                   |                                | 18.58                 |      |
| (8) STRUCTURE NUMBER(FEDERAL)              |                              | 000000000090187       |                | STATUS =                               | Structurally Deficient         |                       |      |
| (5) INVENTORY ROUTE (ON/UNDER) - ON        |                              | 31011000              |                |                                        |                                |                       |      |
| (2) STATE HIGHWAY DEPARTMENT DISTRICT      |                              | 3                     |                |                                        |                                |                       |      |
| (3) COUNTY CODE                            | 9                            | (4) PLACE CODE        | 0              | (112)NBIS BRIDGE SYSTEM -              |                                | YES                   |      |
| (6) FEATURE INTERSECTED -                  | THREE TOP CREEK              |                       |                | (104)HIGHWAY SYSTEM                    | Is not on NHS                  | 0                     |      |
| (7) FACILITY CARRIED                       | SR1100                       |                       |                | (26) FUNCTIONAL CLASS -                | Local                          | 09                    |      |
| (9) LOCATION                               | 25 FT.JCT.E.SR1121           |                       |                | (100)STRAHNET HIGHWAY -                | Not a STRAHNET Route           | 0                     |      |
| (11)MILEPOINT                              |                              | 0                     |                | (101)PARALLEL STRUCTURE -              | No Parallel Structure          | N                     |      |
| (16)LAT                                    | 36° 25' 40.85"               | (17)LONG              | 81° 37' 25.13" | (102)DIRECTION OF TRAFFIC -            | 2-way Traffic                  | 2                     |      |
| (98)BORDER BRIDGE STATE CODE               |                              | PCT SHARE             |                | (103)TEMPORARY STRUCTURE -             | Temporary Structure/Conditions | T                     |      |
| (99)BORDER BRIDGE STRUCTURE NO             |                              |                       |                | (110)DESIGNATED NATIONAL NETWORK -     | Not on the National Network    | 0                     |      |
|                                            |                              |                       |                | (20) TOLL                              | On Free Road                   | 3                     |      |
|                                            |                              |                       |                | (31) MAINTAIN -                        | State Highway Agency           | 01                    |      |
|                                            |                              |                       |                | (22) OWNER -                           | State Highway Agency           | 01                    |      |
|                                            |                              |                       |                | (37) HISTORICAL SIGNIFICANCE -         | Not Eligible                   | 5                     |      |
| STRUCTURE TYPE AND MATERIAL                |                              |                       |                | CONDITION                              |                                |                       |      |
| (43) STRUCTURE TYPE MAIN:                  | Steel                        |                       |                | (58) DECK                              |                                | 7                     |      |
| TYPE -                                     | Stringer Mutlibeam or Girder | CODE                  | 302            | (59) SUPERSTRUCTURE                    |                                | 5                     |      |
| (44) STRUCTURE TYPE APPR :                 |                              |                       |                | (60) SUBSTRUCTURE                      |                                | 4                     |      |
| TYPE -                                     |                              | CODE                  | 000            | (61) CHANNEL & CHANNEL PROTECTION      |                                | 7                     |      |
| (45) NUMBER OF SPANS IN MAIN UNIT          |                              |                       | 1              | (62) CULVERTS                          |                                | N                     |      |
| (46) NUMBER OF APPROACH SPANS              |                              |                       |                |                                        |                                |                       |      |
| (107)DECK STRUCTURE TYPE -                 | 8                            | CODE                  |                | LOAD RATING AND POSTING                |                                |                       |      |
| (108)WEARING SURFACE / PROTECTIVE SYSTEM : |                              |                       |                | (31) DESIGN LOAD                       | Unknown                        | 0                     |      |
| (A) TYPE OF WEARING SURFACE -              |                              | CODE                  |                | (63) OPERATING RATING METHOD -         | Load Factor                    |                       |      |
| (B) TYPE OF MEMBRANE                       | -                            | CODE                  |                | (64) OPERATING RATING -                | HS-1                           | 101                   |      |
| (C) TYPE OF DECK PROTECTION -              |                              | CODE                  |                | (65) INVENTORY RATING METHOD -         | Load Factor                    |                       |      |
|                                            |                              |                       |                | (66) INVENTORY RATING -                | HS-1                           | 101                   |      |
|                                            |                              |                       |                | (70) BRIDGE POSTING -                  | Posting Required               | 1                     |      |
|                                            |                              |                       |                | (41) STRUCTURE OPEN, POSTED ,OR CLOSED |                                | P                     |      |
|                                            |                              |                       |                | DESCRIPTION -                          | Posted for Load                |                       |      |
| AGE AND SERVICE                            |                              |                       |                | APPRAISAL                              |                                |                       |      |
| (27) YEAR BUILT                            |                              |                       | 1960           | (67) STRUCTURAL EVALUATION             |                                | 3                     |      |
| (106)YEAR RECONSTRUCTED                    |                              |                       |                | (68) DECK GEOMETRY                     |                                | 2                     |      |
| (42) TYPE OF SERVICE : ON -                | Highway                      |                       |                | (69) UNDERCLEARANCES,VERTI & HORIZ     |                                | N                     |      |
| UNDER -                                    | Waterway                     | CODE                  | 15             | (71) WATERWAY ADEQUACY                 |                                | 7                     |      |
| (28) LANES: ON STRUCTURE                   | 2                            | UNDER STRUCTURE       |                | (72) APPROACH ROADWAY ALIGNMENT        |                                | 7                     |      |
| (29) AVERAGE DAILY TRAFFIC                 |                              |                       | 750            | (36) TRAFFIC SAFETY FEATURES           |                                | 0000                  |      |
| (30) YEAR OF ADT                           | 2011                         | (109) TRUCK ADT PCT   | 6%             | (113)SCOUR CRITICAL BRIDGES            |                                | U                     |      |
| (19) BYPASS OR DETOUR LENGTH               |                              |                       | 5 MI           |                                        |                                |                       |      |
| GEOMETRIC DATA                             |                              |                       |                | PROPOSED IMPROVEMENTS                  |                                |                       |      |
| (48) LENGTH OF MAXIMUM SPAN                |                              |                       | 39 FT          | (75) TYPE OF WORK -                    |                                | CODE                  |      |
| (49) STRUCTURE LENGTH                      |                              |                       | 41 FT          | (76) LENGTH OF STRUCTURE IMPROVEMENT   |                                |                       |      |
| (50)CURB OR SIDEWALK: LEFT                 | .3 FT                        | RIGHT                 | .3 FT          | (94) BRIDGE IMPROVEMENT COST           |                                |                       |      |
| (51) BRIDGE ROADWAY WIDTH CURB TO CURB     |                              |                       | 19.2 FT        | (95) ROADWAY IMPROVEMENT COST          |                                |                       |      |
| (52) DECK WIDTH OUT TO OUT                 |                              |                       | 20 FT          | (96) TOTAL PROJECT COST                |                                |                       |      |
| (32) APPROACH ROADWAY WIDTH (W/SHOULDERS)  |                              |                       | 16 FT          | (97) YEAR OF IMPROVEMENT COST ESTIMATE |                                |                       |      |
| (33) BRIDGE MEDIAN -                       | No Median                    | CODE                  | 0              | (114)FUTURE ADT                        | 1500                           | (115) YEAR FUTURE ADT | 2025 |
| (34) SKEW                                  | 0°                           | (35) STRUCTURE FLARED | 0              |                                        |                                |                       |      |
| (10) INVENTORY ROUTE MIN VERT CLEAR        |                              |                       | 999.9 FT       | INSPECTIONS                            |                                |                       |      |
| (47) INVENTORY ROUTE TOTAL HORIZ CLEAR     |                              |                       | 19.2 FT        | (90) INSPECTION DATE                   |                                | 06/27/2012            |      |
| (53) MIN VERT CLEAR OVER BRIDGE RDWY       |                              |                       | 999.9 FT       | (92) CRITICAL FEATURE INSPECTION :     |                                | (93) CFI DATE         |      |
| (54) MIN VERT UNDERCLEAR REF               | Not a Highway or Railroad    |                       | 0 FT           | A) FRACTURE CRIT DETAIL -              | NO                             | A)                    |      |
| (55) MIN LAT UNDERCLEAR RT REF             | Not a Highway or Railroad    |                       | 000 FT         | B) UNDERWATER INSP -                   | NO                             | B)                    |      |
| (56) MIN LAT UNDERCLEAR LT REF -           |                              |                       | 000 FT         | C) OTHER SPECIAL INSP                  | NO                             | C)                    |      |
|                                            |                              |                       |                | SCOUR                                  |                                |                       |      |
| NAVIGATION DATA                            |                              |                       |                |                                        |                                |                       |      |
| (38) NAVIGATION CONTROL -                  | No Navigational Control      | CODE                  | 0              |                                        |                                |                       |      |
| (111)PIER PROTECTION -                     |                              | CODE                  |                |                                        |                                |                       |      |
| (39) NAVIGATION VERTICAL CLEARANCE         |                              |                       | 0              |                                        |                                |                       |      |
| (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR |                              |                       | FT             |                                        |                                |                       |      |
| (40) NAVIGATION HORIZONTAL CLEARANCE       |                              |                       | 0 FT           |                                        |                                |                       |      |

## BRIDGE MANAGEMENT UNIT

## DATA ON EXISTING STRUCTURE

Run Date: 07/23/2012

|          |            |            |                    |          |      |
|----------|------------|------------|--------------------|----------|------|
| COUNTY : | DIVISION : | DISTRICT : | STRUCTURE NUMBER : | LENGTH : |      |
| ASHE     | 11         | 3          | 040187             | 41       | FEET |

|                 |                       |
|-----------------|-----------------------|
| ROUTE CARRIED : | FEATURE INTERSECTED : |
| SR1100          | THREE TOP CREEK       |

|                    |               |        |
|--------------------|---------------|--------|
| LOCATED :          | BRIDGE NAME : | CITY : |
| 25 FT.JCT.E.SR1121 |               |        |

|               |           |              |            |               |
|---------------|-----------|--------------|------------|---------------|
| FUNC. CLASS : | SYST.ON : | SYST.UNDER : | ADT & YR : | RAIL TYPE :   |
| 09            | NFA       | NFA          | 750 2011   | LT 227 RT 227 |

|         |      |        |                |               |
|---------|------|--------|----------------|---------------|
| BUILT : | BY : | PROJ : | FED.AID PROJ : | DESIGN LOAD : |
| 1960    | BMU  |        |                | Unknown       |

|         |      |        |             |        |            |
|---------|------|--------|-------------|--------|------------|
| REHAB : | BY : | PROJ : | ALIGNMENT : | SKEW : | LANES :    |
|         |      |        | TAN         | 90     | ON 2 UNDER |

|                            |                   |               |
|----------------------------|-------------------|---------------|
| NAVIGATION :               | HT. CRN. TO BED : | WATER DEPTH : |
| VC 0 FT HC 0 FT 11 FT 1 FT |                   |               |

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.POST&amp;SILLS @ VAR.CENTERS

SPANS : 1 @ 40'-6

BEAMS OR GIRDERS : 9 LINES 18 I-BEAMS @ 2'-3.5 CENTERS

|                |                |                     |
|----------------|----------------|---------------------|
| FLOOR :        | ENCROACHMENT : | DECK (OUT TO OUT) : |
| 4X8 TIM/NO AWS |                | 20 FT               |

|                 |                 |                    |
|-----------------|-----------------|--------------------|
| CLEAR ROADWAY : | BETWEEN RAILS : | SIDEWALK OR CURB : |
| 19.2 FT         | 19.8 FT         | LT .3 FT RT .3 FT  |

VERT.CL.OVER :  
999.9 FT

|            |            |                |          |      |    |      |            |
|------------|------------|----------------|----------|------|----|------|------------|
| INV.RTG. : | OPE.RTG. : | CONTR.MEMBER : | POSTED : | TTST | 31 | DATE | 07/20/2012 |
| HS-1       | HS-1       | Int.bms        | SV 25    |      |    |      |            |

|                      |                    |
|----------------------|--------------------|
| SYSTEM :             | GREEN LINE ROUTE : |
| Secondary S.R. Route | N                  |

UNDER ROUTES AND CLEARANCES

REMARKS :

# BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection  
 BRIDGE NO. 040187 COUNTY ASHE ROUTE SR1100 OVER THREE TOP CREEK  
 STRUCTURE TYPE TIMBER FLOOR ON I-BEAMS  
 ROUTE ORIENTATION S - N SPANS 1 @ 40'-6

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

| INSPECTION ITEM                                       |                                     |   |        | ITEM 61                                             |                                      |   |          |
|-------------------------------------------------------|-------------------------------------|---|--------|-----------------------------------------------------|--------------------------------------|---|----------|
| DECK ITEMS                                            |                                     |   | GRADES |                                                     |                                      |   |          |
| 1. WEARING SURFACE                                    |                                     |   |        | 45. CHANNEL & CHANNEL PROT.                         | a. WATERWAY                          | G |          |
|                                                       |                                     |   |        |                                                     | b. ALIGNMENT                         | G |          |
|                                                       |                                     |   |        |                                                     | c. SCOUR                             | G |          |
|                                                       |                                     |   |        |                                                     | d. SLOPE PROT., RIP-RAP, DIKES, ETC. |   |          |
| 2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58 | a. CONCRETE                         |   |        | 50. APPROACH ROADWAY CONDITION                      |                                      |   | F        |
|                                                       | b. TIMBER                           | 1 | G      | 51. APPROACH SLABS                                  |                                      |   |          |
|                                                       | c. STEEL PLANK                      |   |        | 52. PAINT SYSTEM                                    |                                      |   | CODE A G |
|                                                       | d. OPEN GRID                        |   |        | 53. UTILITIES                                       |                                      |   |          |
| 3. RAILING                                            | a. CONCRETE                         |   |        | 54. RESPONSE TO LIVE LOAD                           |                                      |   | G        |
|                                                       | b. TIMBER                           |   | G      | 55. ESTIMATED REMAINING LIFE                        |                                      |   | 15       |
|                                                       | c. ALUMINUM                         |   |        |                                                     |                                      |   |          |
|                                                       | d. STEEL                            |   |        |                                                     |                                      |   |          |
| 4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS              |                                     |   | G      | 60. REGULATORY SIGN NOTICE ISSUED                   |                                      |   | NO       |
| 5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)             |                                     |   |        | 61. PROMPT-ACTION NOTICE ISSUED                     |                                      |   | NO       |
| 6. DECK EXP JTS. OR DEVICES. NO. OF EACH              | a. STEEL PL OR FINGER               |   |        | 62. PRESENTLY POSTED                                |                                      |   | YES      |
|                                                       | b. MISC PREFAB                      |   |        | 63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) |                                      |   | 5        |
|                                                       | c. COMPRESSION SEAL                 |   |        | 64. TOTAL SNOOPER INSP. TIME (HRS)                  |                                      |   |          |
|                                                       | d. STANDARD JOINTS                  |   |        | 65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)            |                                      |   |          |
|                                                       | e. OPEN JOINTS                      |   |        |                                                     |                                      |   |          |
| 7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)          |                                     |   | G      | 70. SI&A GENERAL CONDITION RATINGS                  |                                      |   |          |
| SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59                |                                     |   |        | a. DECK                                             | ITEM 58                              | 7 |          |
| 10. LONGITUDINAL BEAMS OR GIRDERS                     |                                     |   | F      | b. SUPERSTRUCTURE                                   | ITEM 59                              | 5 |          |
| 11. LONGITUDINAL JOIST OR STRINGERS                   |                                     |   |        | c. SUBSTRUCTURE                                     | ITEM 60                              | 5 |          |
| 12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S           |                                     |   |        | d. CHANNEL & CHANNEL PROT.                          | ITEM 61                              | 7 |          |
| 13. END DIAP'S, CURTAIN WALLS, & CONN'S               |                                     |   |        | 71. SI&A FIELD APPRAISAL RATINGS                    |                                      |   |          |
| 14. FLOOR BEAMS AND CONNECTIONS                       |                                     |   |        | a. WATERWAY ADAQUACY                                |                                      | 7 |          |
| 15. BEARING ASSEMBLIES (INCLUDING MISALIGN)           |                                     |   |        | b. APPR. RDWY. ALIGNMENT                            |                                      | 7 |          |
| 16. DRAINAGE SYSTEM (ON STRUCTURE)                    |                                     |   | G      | 72. FIELD SCOUR EVALUATION                          |                                      |   | L        |
| 17. MOVABLE SPAN MACHINERY                            |                                     |   |        |                                                     |                                      |   |          |
| SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)               |                                     |   |        | USE OF INSP. ACCESSIBILITY EQUIPMENT                |                                      |   |          |
| 35. TIM SUB STR.                                      | a. ABUT. & INT. BENT CAPS & RISERS  |   | F      | SNOOPER (CODE S, 4, OR N)                           |                                      |   | HRS NO   |
|                                                       | b. PILES, POST, SILLS, & BRACING    |   | F      | LADDER                                              |                                      |   | NO       |
|                                                       | c. BULKHEADS, WING'S, & TIE BACKS   |   | F      | BUCKET TRUCK                                        |                                      |   | NO       |
| 36. CONC SUB STR.                                     | a. ABUT. & INT. BENT CAPS           |   |        | BOAT                                                |                                      |   | NO       |
|                                                       | b. ABUT. & BENT COL'S BREASTWALLS   |   |        | OTHER                                               |                                      |   | NO       |
|                                                       | c. ABUT. & INT. BENT PILES          |   |        |                                                     |                                      |   |          |
|                                                       | d. BACKWALLS, WING'S, RETAIN. WALLS |   |        |                                                     |                                      |   |          |
|                                                       | e. ABUT. & BENT FOOTINGS & SILLS    |   |        |                                                     |                                      |   |          |
| 37. STEEL SUB STR.                                    | a. ABUT. & INT. BENT CAPS & RISERS  |   |        | SPECIAL INSPECTION REQUESTED FOR                    |                                      |   |          |
|                                                       | b. PILES, BRACING, AND BULKHEADS    |   |        |                                                     |                                      |   |          |
| 38. FOUNDATION PILES TYPE MATERIAL                    |                                     |   |        | NOTE                                                |                                      |   |          |
| 39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)           |                                     |   |        |                                                     |                                      |   |          |
| 40. FENDER SYSTEMS                                    |                                     |   |        | 80. INSPECTED BY:                                   | Don Wilbur                           |   |          |
| 41. DRIFT                                             |                                     |   | G      | 81. REVIEWED BY:                                    |                                      |   |          |

|                                                                                                      |              |                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Bridge I&A Form 1(82)H<br>State of North Carolina<br>Dept. of Transportation<br>Division of Highways |              | <b>FIELD INSPECTION REPORT</b><br><u>Bridge Inspeccion &amp; Analysis</u>                                                                          |  |
| Team Leader <b>DWELBORN</b>                                                                          |              |                                                                                                                                                    |  |
| Assisted By <b>JSF</b>                                                                               |              |                                                                                                                                                    |  |
| <b>Item No.</b>                                                                                      | <b>Grade</b> |                                                                                                                                                    |  |
| <b>2b</b>                                                                                            | <b>G</b>     | ASPHALT WEARING SURFACE REMOVED. DECK LOOSE & RATTLES UNDER TRAFFIC.                                                                               |  |
| <b>10</b>                                                                                            | <b>F</b>     | SCATTERED OLD SCALING AND PITTING ESPECIALLY ON EXTERIOR BEAMS WITH BEGINNING LOSS. BOW DUE TO NO DIAPHRAMS.                                       |  |
| <b>35a</b>                                                                                           | <b>F</b>     | CRACKING AND SOFT. SOFT ON ENDS. SPOT DECAY ON LEFT END CAP 1. CAP 2 SPLITTING WITH FEW HOLLOW SOUNDING AREAS.                                     |  |
| <b>35b</b>                                                                                           | <b>F</b>     | CRACKING, SPLITTING, DISCOLORED AND SOFT WITH SPOT DECAY ESPECIALLY AT BOTTOMS. POST 7 ABUTMENT 2 HOLLOW SOUNDING WITH SPOT DECAY. SILL 2 VISIBLE. |  |
| <b>35c</b>                                                                                           | <b>F</b>     | CRACKING, DISCOLORED AND SOFT WITH SPOT DECAY.                                                                                                     |  |
| <b>50</b>                                                                                            | <b>F</b>     | SOUTH APPROACH DROPS OFF DECK.                                                                                                                     |  |

## **BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS**

Bridge: 040187

County ASHE

Date: 06/27/2012

**These Repairs Should Be Made Within Twelve Months From Date Of This Inspection**

| MMS Code | Description of Function                           | Unit | Quantity | Remarks                     | Est. Cost |
|----------|---------------------------------------------------|------|----------|-----------------------------|-----------|
| 2816     | Asphalt Surface Repair or Replacement             | SY   | 88       | NO ASPHALT WEARING SURFACE  |           |
| 3314     | Maintain Steel Superstructure Components          | LF   | 36       | INSTALL INTERIOR. DIAPHRAMS |           |
| 5603     | Partial Cleaning and Painting of Structural Steel | SF   | 100      | RUSTING STEEL               |           |

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



RUST



ABUTMENT 2 POST 1, 3 TEMP REPAIR



POST 7 ABUTMENT 2

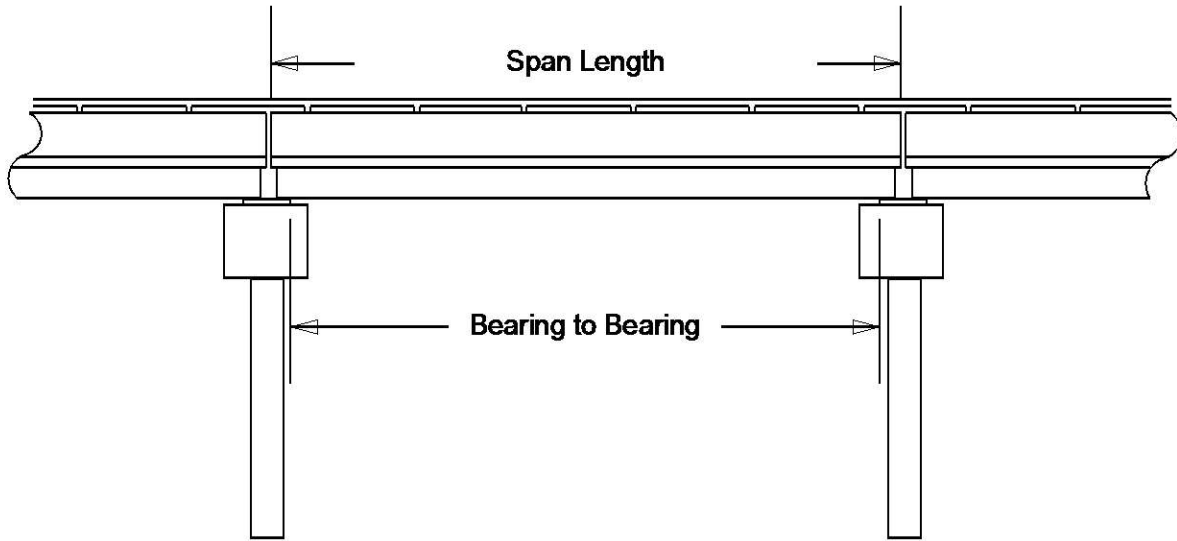


BEAM 1

# Structure Data Worksheet

*Spans*

County: ASHE      Structure No: 040187      Date: 06/27/2012      Inspected By: DCW



| Span No | Span Length  | Bearing to Bearing | Comments |
|---------|--------------|--------------------|----------|
| 1       | 40 ft. 6 in. | 39 ft. 2 in.       |          |

# Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 040187 County: ASHE Date: 06/27/2012 By: DCW

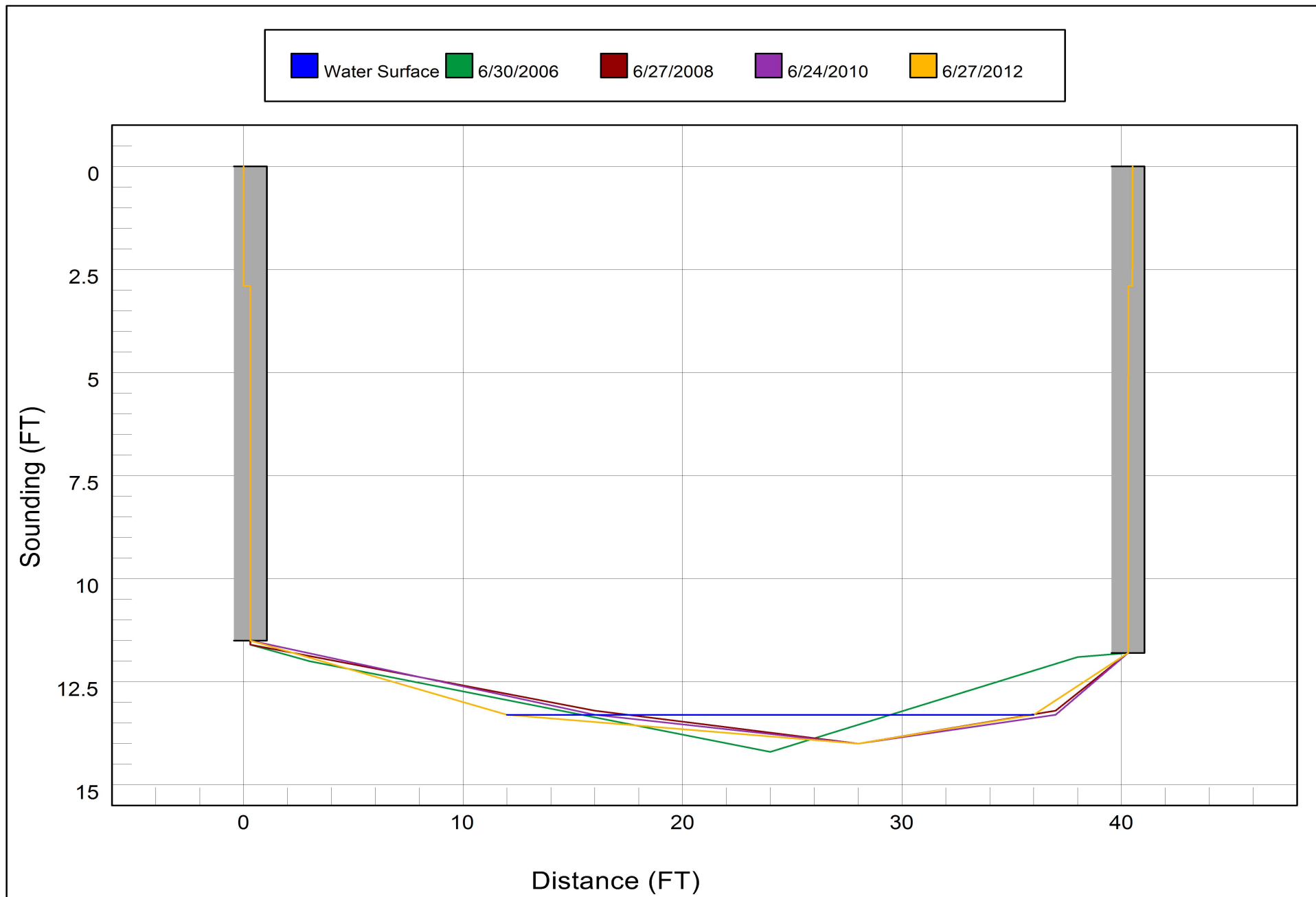
Record sounding from top of rail. Other location if needed: \_\_\_\_\_

Distance from Highwater Mark to top of rail: \_\_\_\_\_ Location of Highwater Mark: \_\_\_\_\_

| DOWNSTREAM                 |                  |                  | UPSTREAM                   |                  |                  |
|----------------------------|------------------|------------------|----------------------------|------------------|------------------|
| Distance<br>(Station) (ft) | Sounding<br>(ft) | Description      | Distance<br>(Station) (ft) | Sounding<br>(ft) | Description      |
| 0                          | 0                | TOP OF RAIL      |                            |                  |                  |
| 0                          | 2.9              | TOP OF FF        |                            |                  |                  |
| 0.3                        | 2.9              | TOP OF FF        |                            |                  |                  |
| 0.3                        | 5.1              | TOP OF CAP       |                            |                  |                  |
| 0.31                       | 11.5             | FACE OF ABUTMENT | 0.31                       | 12.1             | FACE OF ABUTMENT |
| 12                         | 13.3             | WS WE            |                            |                  |                  |
| 28                         | 14               | BED              |                            |                  |                  |
| 36                         | 13.3             | WS WE            |                            |                  |                  |
| 40.3                       | 11.8             | FACE OF ABUTMENT | 40.3                       | 13               | FACE OF ABUTMENT |
| 40.31                      | 5.1              | TOP OF CAP       |                            |                  |                  |
| 40.32                      | 2.9              | TOP OF FF        |                            |                  |                  |
| 40.5                       | 2.9              | TOP OF FF        |                            |                  |                  |
| 40.51                      | 0                | TOP OF RAIL      |                            |                  |                  |

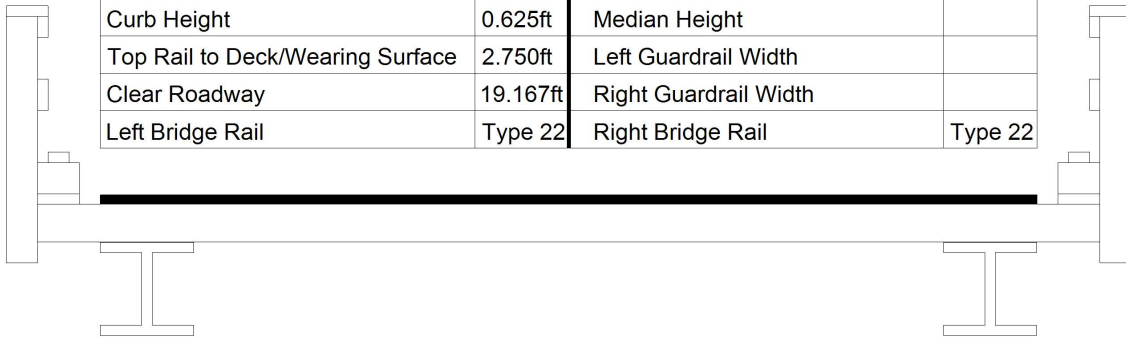
**STREAMBED PROFILE (Downstream)**

Top of Rail = 0 FT (Sounding)



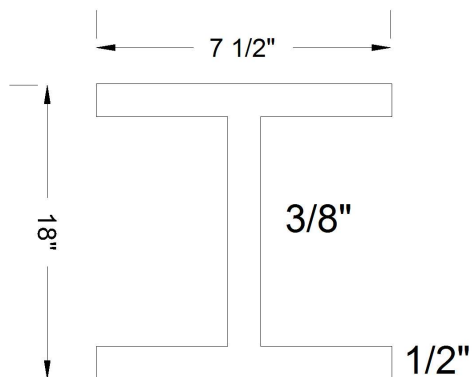
# Bridge Inspection Field Sketch

|                                  |          |                       |         |
|----------------------------------|----------|-----------------------|---------|
| Deck Width/Out to Out            | 20.0ft   | Wearing Surface       | 0.167ft |
| Between Rails                    | 19.833ft | Median Width          |         |
| Curb Height                      | 0.625ft  | Median Height         |         |
| Top Rail to Deck/Wearing Surface | 2.750ft  | Left Guardrail Width  |         |
| Clear Roadway                    | 19.167ft | Right Guardrail Width |         |
| Left Bridge Rail                 | Type 22  | Right Bridge Rail     | Type 22 |

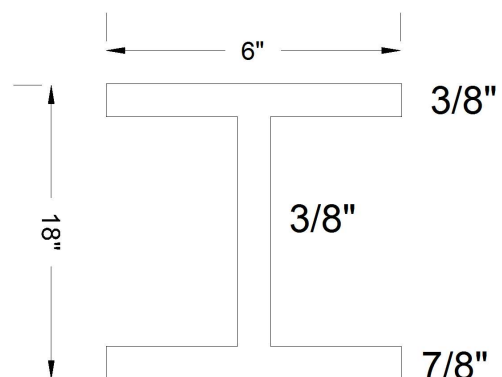


|                               |       |                |       |
|-------------------------------|-------|----------------|-------|
| Measurements for Span #       | 1     |                |       |
| Deck Thickness                | 0.312 | Left Overhang  | 0.833 |
| Top of Rail to Bottom of Beam | 5.167 | Right Overhang | 0.833 |

| Beam No | Beam Type    | Spacing | Comments |
|---------|--------------|---------|----------|
| 1       | Steel I Beam | 2.292ft |          |
| 2       | Steel I Beam | 2.292ft |          |
| 3       | Steel I Beam | 2.292ft |          |
| 4       | Steel I Beam | 2.292ft |          |
| 5       | Steel I Beam | 2.292ft |          |
| 6       | Steel I Beam | 2.292ft |          |
| 7       | Steel I Beam | 2.292ft |          |
| 8       | Steel I Beam | 2.292ft |          |
| 9       | Steel I Beam |         |          |



EXT. BMS.



INT. BMS.

Title

TS

Description

SUPER

VERIFIED 6/27/12 DWELBORN

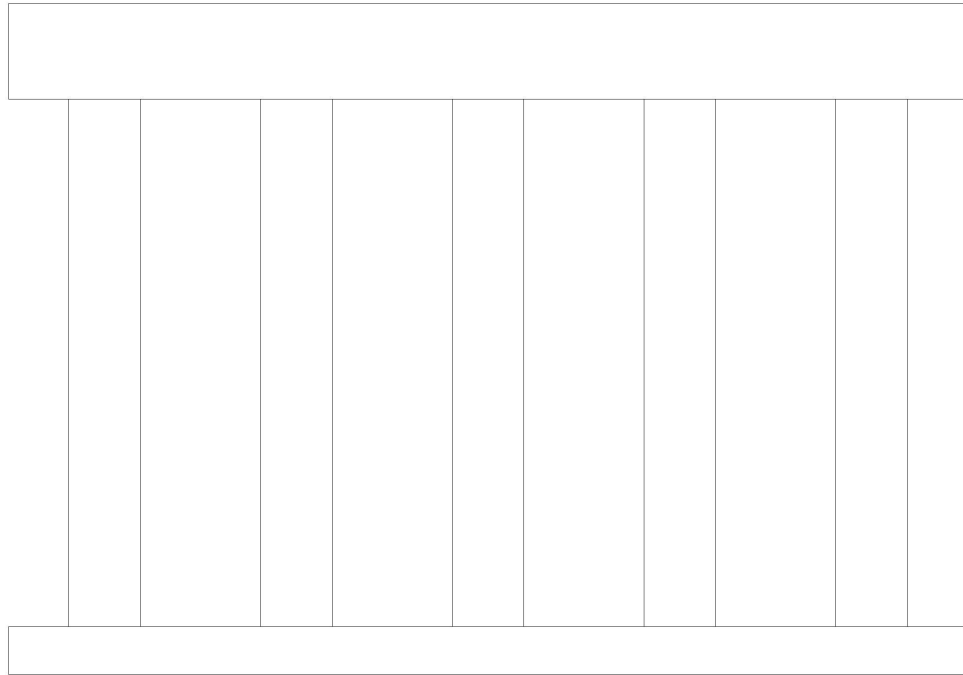
Bridge No: 040187

Drawn By: DCW

Date: 06/27/2008

File Name: S0126000909

# Bridge Inspection Field Sketch



|                                 |           |                      |              |
|---------------------------------|-----------|----------------------|--------------|
| Abutment #                      | 1         |                      |              |
| Cap - Beam Type (Wood or Steel) |           |                      |              |
| Cap Size                        | 20ft Long | 0.833ft Wide         | 0.833ft High |
| Left Overhang                   | 1ft       | Lt Cap/Beam Overhang | .797ft       |
| Right Overhang                  | 1ft       | Rt Cap/Beam Overhang | .797ft       |
| Sill - Sill                     |           |                      |              |
| Sill Size                       |           |                      |              |

| Pile # | Material       | Pile Type      | Spacing | Length | Width/Diam. | Height | Orientation |
|--------|----------------|----------------|---------|--------|-------------|--------|-------------|
| 1      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 2      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 3      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 4      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 5      | Wood or Timber | Post and Sills |         |        | 10"         | 10"    | Vertical    |

VERIFIED 6/27/12 J. FAULKNER

|                   |                  |                    |                        |
|-------------------|------------------|--------------------|------------------------|
| <b>Title</b>      |                  | <b>Description</b> |                        |
| SUB 1             |                  | SUB AB 1           |                        |
| Bridge No: 040187 | Drawn By: G.R.R. | Date: 06/27/2008   | File Name: S0130000965 |

# Bridge Inspection Field Sketch



|                                 |           |                      |              |
|---------------------------------|-----------|----------------------|--------------|
| Abutment #                      | 2         |                      |              |
| Cap - Beam Type (Wood or Steel) |           |                      |              |
| Cap Size                        | 20ft Long | 0.833ft Wide         | 0.833ft High |
| Left Overhang                   | 1ft       | Lt Cap/Beam Overhang | .797ft       |
| Right Overhang                  | 1ft       | Rt Cap/Beam Overhang | .797ft       |
| Sill - Sill                     |           |                      |              |
| Sill Size                       |           |                      |              |

| Pile # | Material       | Pile Type      | Spacing | Length | Width/Diam. | Height | Orientation |
|--------|----------------|----------------|---------|--------|-------------|--------|-------------|
| 1      | Wood or Timber | Post and Sills | 12"     |        | 10"         | 10"    | Vertical    |
| 2      | Wood or Timber | Post and Sills | 3' 6"   |        | 10"         | 10"    | Vertical    |
| 3      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 4      | Wood or Timber | Post and Sills | 12"     |        | 10"         | 10"    | Vertical    |
| 5      | Wood or Timber | Post and Sills | 3' 6"   |        | 10"         | 10"    | Vertical    |
| 6      | Wood or Timber | Post and Sills | 4' 6"   |        | 10"         | 10"    | Vertical    |
| 7      | Wood or Timber | Post and Sills |         |        | 10"         | 10"    | Vertical    |

**VERIFIED 6/27/12 J. FAULKNER**

## Title

SUB 2

## Description

SUB AB 2

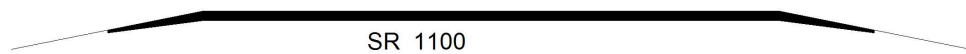
Bridge No: 040187

Drawn By: G.R.R.

Date: 06/27/2008

File Name: S0130000966

# Bridge Inspection Field Sketch



|                 |           |               |               |
|-----------------|-----------|---------------|---------------|
| Roadway         | 16ft Wide | 2 Paved Lanes | Looking South |
| Left Shoulder   | 3ft Wide  |               | 3ft Unpaved   |
| Right Shoulder  | 3ft Wide  |               | 3ft Unpaved   |
| Left Guardrail  |           |               |               |
| Right Guardrail |           |               |               |

VERIFIED 6/27/12 J. FAULKNER

## Title

APRW

## Description

APPROACH ROADWAY

Bridge No: 040187

Drawn By: G.R.R.

Date: 06/27/2008

File Name: S0130000967



LOOKING NORTH



LOOKING UPSTREAM



LOOKING DOWNSTREAM



LOOKING SOUTH



LOOKING DOWNSTREAM



LOOKING UPSTREAM



BOTTOM VIEW LOOKING NORTH