

ADDENDUM #1 – August 24, 2015

WEST VIRGINIA PARKWAYS AUTHORITY

PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS FOR:

**BRIDGE RETROFIT
CONTRACT BR-1-15
KANAWHA COUNTY**

Remove and replace in contract plans:

- Sheet 2 – Revised Structural Steel and Paint Note
- Sheet 14 – Revised Notes and Sketch

WEST VIRGINIA PARKWAYS AUTHORITY

A handwritten signature in black ink that reads "Gregory C. Barr". The signature is written in a cursive style with a large initial 'G'.

Gregory C. Barr
General Manager
August 24, 2015

Fiscal Year	County	Sheet No.	Total Sheets
2015	KANAWHA	2	15

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED JANUARY 2010, AS AMENDED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 1, 2014, THE CONTRACT DOCUMENTS, THE CONTRACT PLANS AND THE SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, CUSTOMARY U.S. UNITS, 17TH EDITION, 2002.

DESIGN STRENGTHS

STRUCTURAL STEEL

AASHTO M270 GRADE 36 Fy = 36 ksi
AASHTO M270 GRADE 50 Fy = 50 ksi

DIMENSIONS AND DETAILS OF EXISTING STRUCTURE

ALL DIMENSIONS, ELEVATIONS, AND OTHER INFORMATION SHOWN ON THESE DRAWINGS TO DEFINE THE STRUCTURE ARE BASED UPON ORIGINAL CONSTRUCTION DRAWINGS AND ARE NOT GUARANTEED TO REPRESENT THE AS-BUILT DIMENSIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS AS REQUIRED FOR THE COMPLETION OF THE WORK UNDER THE CONTRACT. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS, DIMENSIONS, AND WORK QUANTITIES. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL REVIEW THE RECORD PLANS FOR THE EXISTING STRUCTURE. THESE PLANS ARE AVAILABLE UPON REQUEST FROM HNTB CORPORATION.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 36 OR GRADE 50, UNLESS OTHERWISE NOTED. ALL FASTENERS SHALL BE 3/8" DIAMETER AASHTO M164 (ASTM-A325) HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED. ALL STRUCTURAL STEEL AND HIGH STRENGTH BOLTS SHALL BE INCIDENTAL TO ITEM 615003-001. THE USE OF HOT DIPPED GALVANIZED BOLTS SHALL BE PERMITTED. 

PAINT

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PRIMED IN ACCORDANCE WITH SUBSECTION 711.20. SHERWIN WILLIAMS ZINC CLAD III HS, INORGANIC ZINC-RICH COATING AT 3.0-5.0 MILS DRY FILM THICKNESS APPLIED EVERYWHERE, OR APPROVED EQUAL.

ALL NEW STRUCTURAL STEEL SHALL RECEIVE A UNIFORM COAT OF SHERWIN WILLIAMS ACRYLON 218 HS ACRYLIC POLYURETHANE FINISH COAT AT 3.0-6.0 MILS DRY FILM THICKNESS APPLIED EVERYWHERE. TOP COAT COLOR TO BE DARK GREEN, FEDERAL STANDARD 595 NUMBER 14062. THE PAINT SYSTEM USED WILL BE SHERWIN WILLIAMS OR APPROVED EQUAL.

 IF CONTRACTOR ELECTS TO USE ALTERNATE PAINT SYSTEM DURING NIGHTTIME OPERATIONS; THE CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS TO ENGINEER FOR REVIEW AND APPROVAL.

EXISTING COATINGS

THE EXISTING PAINT IS CLASSIFIED AS TYPE A: - WHICH HAS COATINGS THAT MAY GENERATE HAZARDOUS WASTE. HAZARDOUS WASTE IS WASTE THAT CONTAINS ONE OR MORE OF THE HEAVY METALS CLASSIFIED IN THE EIGHT (8) RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) METALS.

SCOPE OF WORK

1. WORK IS TO BE PERFORMED IN APPROACHES A AND B AS WELL AS IN THE TRUSS SPANS 1 AND 3.
2. INSTALL NEW L5x3 1/2x3/8 TRANSVERSE STIFFENERS AT BOTH GIRDERS IN UNIT A AS SHOWN ON SHEETS 14 AND 15.
3. INSTALL NEW L6x3 1/2x3/8 TRANSVERSE STIFFENERS AT BOTH GIRDERS IN UNIT B AS SHOWN ON SHEETS 14 AND 15.
4. INSTALL NEW L4x4x1/2 AT BOTH TRUSS LOCATIONS, ON BOTH TRUSSES AS SHOWN ON SHEET 14.

ESTIMATE OF STRUCTURAL STEEL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
615003-001	FABRICATED STRUCTURAL STEEL, AASHTO M270 (GRADE 36)	LS	1

FOR INFORMATION ONLY
APPROXIMATE STEEL WEIGHT = 21,878 LBS.

SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
ROADWAY			
204001-000	MOBILIZATION	LS	1
636011-001	TRAFFIC CONTROL DEVICE	UNIT	6220
636014-001	FLAGGER	HR	1500
636014-002	TRAFFIC DIRECTOR	HR	750
636021-001	ELECTRIC ARROW	DAY	73
636022-001	CHANGEABLE MESSAGE SIGN	DAY	73
636025-001	WARNING LIGHTS, TYPE B	DAY	1144
636028-001	SHADOW VEHICLE	DAY	73
636030-001	SPEED MONITORING TRAILER	DAY	73
BRIDGE 2144S			
615003-001	FABRICATED STRUCTURAL STEEL, AASHTO M270 (GRADE 36 OR 50)	LS	1

HNTB HNTB CORPORATION
ENGINEERS ARCHITECTS PLANNERS

WEST VIRGINIA TURNPIKE
CONTRACT BR-1-15
**GENERAL NOTES, QUANTITIES
AND INDEX OF SHEETS**

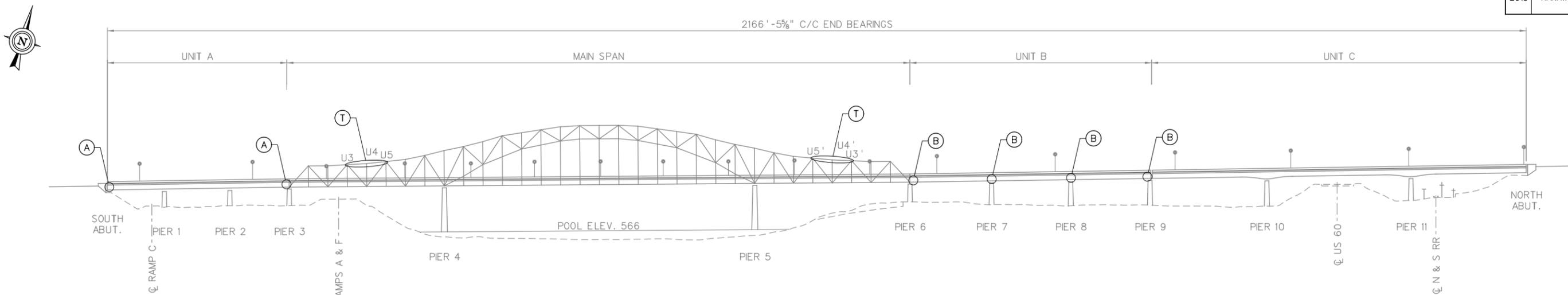
DESIGNED	DATE	CHECKED	DATE
CMQ	6/2015	VPM	6/2015
DRAWN	DATE	REVIEWED	DATE
KVM	6/2015	RTE	6/2015
REVISION NUMBER	SHEET NUMBER	REVISION	DATE
	2	REVISED NOTES	8-20-15

Monday, August 24, 2015

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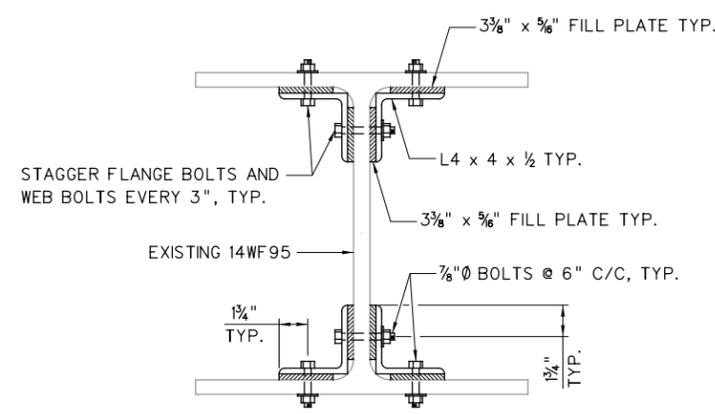
Monday, August 24, 2015

Fiscal Year	County	Sheet No.	Total Sheets
2015	KANAWHA	14	15



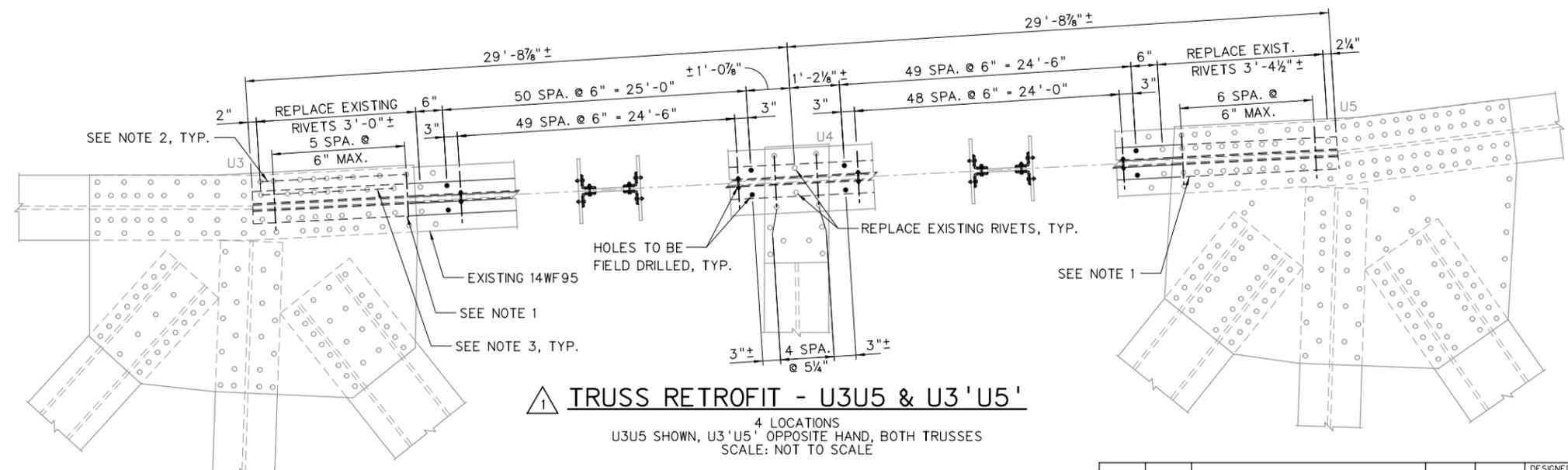
RETROFIT LOCATION KEY

- (A) UNIT A RETROFIT LOCATION
SEE SHEET 15 FOR DETAILS
- (T) TRUSS RETROFIT LOCATION
SEE SHEET 14 FOR DETAILS
- (B) UNIT B RETROFIT LOCATION
SEE SHEET 15 FOR DETAILS



TRUSS RETROFIT - DETAIL
SCALE: NOT TO SCALE

- NOTES:**
- CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING RIVETS. MATCH LOCATION OF BOLTS AT GUSSET PLATES AND REPLACE EXISTING RIVETS.
 - FOR THE EXISTING GUSSET PLATES AND WIDE FLANGE TRUSS MEMBERS TO BE STRENGTHENED, ONLY ONE RIVET AT A TIME SHALL BE REMOVED AND REPLACED WITH A HIGH STRENGTH BOLT AND NUT IN ACCORDANCE WITH THE SPECIFICATIONS. FOR THE TOP AND BOTTOM RIVET LINES ABOVE AND BELOW, REMOVE EXISTING RIVETS AND REPLACE WITH HIGH STRENGTH BOLTS. ONLY ONE RIVET AT A TIME SHALL BE REMOVED AND REPLACED ALONG THESE LINES; THE RIVET HEADS CAN BE REMOVED LEAVING THE SHANK PORTION IN THE HOLE. AT NO TIME SHALL THERE BE MORE THAN ONE HOLE OPEN. BEFORE PLACEMENT OF THE NEW ANGLE MEMBERS DESCRIBED IN FOLLOWING NOTE, INSURE THAT ALL NEWLY PLACED HIGH STRENGTH BOLTS HAVE BEEN TORQUED IN ACCORDANCE WITH THE SPECIFICATIONS.
 - FOR THE RIVET LINES ALONG THE GUSSETS AND TRUSS MEMBERS THAT ALIGN WITH THE NEW ANGLES, REMOVE ONLY THE RIVET HEADS LEAVING THE SHANK PORTION OF RIVET IN THE HOLE. AT NO TIME SHALL THERE BE MORE THAN ONE HOLE OPEN. IF ANY SHANK FALLS OUT DURING RIVET REMOVAL OPERATIONS, IMMEDIATELY REPLACE WITH HIGH STRENGTH BOLT AND TORQUE THE NUT AS SUCH. CONTINUE REPLACING RIVETS ONE AT A TIME BY REMOVING SHANK AND REPLACING WITH HIGH STRENGTH BOLT; UNDER NO CIRCUMSTANCES SHOULD THERE BE TWO HOLES OPEN AT THE SAME TIME. AFTER PLACEMENT OF EACH BOLT, TORQUE THE NEW BOLT AND NUT IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE SUFFICIENT CONTAINMENT TO CATCH ANY LOOSE RIVET COMPONENTS SUCH THAT THEY DO NOT FALL ON TRAFFIC BELOW. THE REMOVAL OF EXISTING RIVETS SHALL BE ACCOMPLISHED WITHOUT DAMAGING EXISTING GUSSET PLATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE AT HIS OWN COST TO THE ENGINEER'S SATISFACTION; AND WILL ALSO BE REQUIRED TO CHANGE TO AN APPROVED ALTERNATIVE RIVET REMOVAL PROCEDURE.
 - SPECIAL NOTE: CONTRACTOR IS REQUIRED TO REPLACE TOP AND BOTTOM ROW RIVETS WITH HIGH STRENGTH BOLTS PRIOR TO REMOVAL OF ANY RIVET HEADS IN MIDDLE TWO ROWS. IN NO INSTANCE SHALL MORE THAN ONE GAGE LINE OF RIVET HEADS BE REMOVED AT ONE TIME.



TRUSS RETROFIT - U3U5 & U3'U5'
4 LOCATIONS
U3U5 SHOWN, U3'U5' OPPOSITE HAND, BOTH TRUSSES
SCALE: NOT TO SCALE

HNTB HNTB CORPORATION
ENGINEERS ARCHITECTS PLANNERS

DESIGNED	DATE	CHECKED	DATE
CMQ	6/2015	VPM	6/2015
DRAWN	DATE	REVIEWED	DATE
KVM	6/2015	RTE	6/2015
REVISION NUMBER	SHEET NUMBER	REVISION	DATE
14	14	REVISED NOTES AND DRAWING	8-20-15
			VPM

WEST VIRGINIA TURNPIKE
CONTRACT BR-1-15
RETROFIT LOCATION KEY & MAIN SPAN RETROFIT DETAILS

Monday, August 24, 2015
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