



# TOWN OF WAITSFIELD

## INVITATION TO BID BIG EDDY COVERED BRIDGE GAP REPAIRS ADDENDUM #1

The Town of Waitsfield is seeking bids from qualified contractors to seal the spaces within and at each end of the 1833 Historic Covered Bridge (CB 4), also known as the Big Eddy Covered Bridge located on Bridge Street in Waitsfield Village, that were created following the installation of a new pedestrian sidewalk in 2015.

### **Pre-Bid Meeting**

A pre-bid meeting was held Wednesday, July 27, 2016, 9:00am, on the west side of the site at Bridge Street. In attendance were the following people:

Rodney Jones, Road Foreman  
Valerie Capels, Town Administrator  
Marc Cote, Blow & Cote  
Paul Sipple, New England Construction Company  
Peter Fjeld, McKernon Group  
Bob Burley, Burley Architects, Waitsfield Historical Society

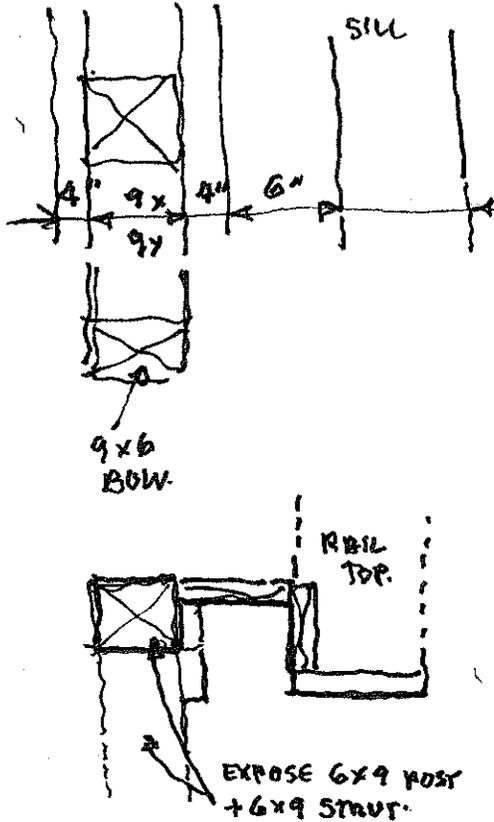
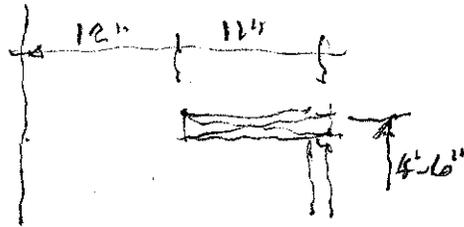
### **Notes**

- The existing siding is eastern white pine, common premium grade.
- Architect Bob Burley proposed an alternative configuration for sealing the gaps at the end. See attached sketch. The Town supports this alternative. It will require a horizontal component at the bottom to obstruct the gap.
- The historic bridge moves as vehicles pass through; the pedestrian bridge does not, so the new wall work must remain separated from the existing pedestrian bridge components.
- Electricity is expected to be available at the site.
- Attached are sheets 7 and 10 from the construction plans with dimensional details.

### **Bid (Not Changed)**

Lump sum bids will be accepted until **12:00 noon, Wednesday, August 3, 2016** at the Waitsfield Town Office, 9 Bridge Street, Waitsfield, Vermont 05673, Attn. Valerie Capels or by e-mail at [townadmin@gmavt.net](mailto:townadmin@gmavt.net). The envelope or e-mail subject line should indicate "Covered Bridge Gap Repair." Bids are expected to be reviewed at the August 8, 2016 Selectboard meeting and notice of award to follow shortly thereafter. Waitsfield is an equal opportunity employer.

Questions should be directed to Town Administrator Valerie Capels at (802) 496-2218 ext. 14 or [townadmin@gmavt.net](mailto:townadmin@gmavt.net) or to Road Commissioner Charlie Goodman at (802) 349-6084 or [cg3@goodmanconstructionvt.com](mailto:cg3@goodmanconstructionvt.com).



Sketch by architect Bob Burley of west end gap repair alternative recessing the barrier so to not cover the historic covered bridge post details. This would require some form of stable flooring or base to fill the downward gap such that it would not give way when anyone (child or adult) steps on it.

FINAL HYDRAULICS REPORT

**DuBois & King inc.**  
 ENGINEERING • PLANNING •  
 MANAGEMENT • DEVELOPMENT  
 6 GREEN TREE DRIVE  
 SOUTH BURLINGTON, VT 05403  
 TEL: (802) 878-7661  
 FAX: (866) 783-7101  
 www.dubois-king.com  
 RANDOLPH, VT  
 SPRINGFIELD, VT  
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 LACONIA, NH  
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HYDROLOGIC DATA

DRAINAGE AREA- SEE ADDITIONAL COMMENTS  
 CHARACTER OF TERRAIN: \_\_\_\_\_  
 CHARACTER & TYPE OF STREAM: \_\_\_\_\_  
 NATURE OF STREAMBED: \_\_\_\_\_  
 Q2.33- \_\_\_\_\_ Q50- \_\_\_\_\_  
 Q10- \_\_\_\_\_ Q100- \_\_\_\_\_  
 Q25- \_\_\_\_\_ Q500- \_\_\_\_\_  
 DATE OF FLOOD OF RECORD: \_\_\_\_\_  
 WATER SURFACE ELEV.: \_\_\_\_\_ ESTIMATED DISCHARGE: \_\_\_\_\_  
 NATURAL STREAM VELOCITY @ Q: \_\_\_\_\_  
 ICE CONDITIONS: \_\_\_\_\_ DEBRIS: \_\_\_\_\_  
 DOES THE STREAM REACH MAXIMUM HIGH WATER ELEVATION RAPIDLY: \_\_\_\_\_  
 IS ORDINARY RISE RAPID? \_\_\_\_\_  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? \_\_\_\_\_  
 IF YES, DESCRIBE: \_\_\_\_\_  
 WATERSHED STORAGE \_\_\_\_\_ HEADWATERS \_\_\_\_\_ UNIFORM THROUGHOUT WATERSHED \_\_\_\_\_  
 IMMEDIATELY ABOVE SITE \_\_\_\_\_

PROPOSED STRUCTURE

STRUCTURE TYPE: EXISTING KING POST TRUSS & BURR ARCH COVERED BRIDGE.  
 PROPOSED STEEL PEDESTRIAN TRUSS ON DOWNSTREAM SIDE.  
 CLEAR SPAN (NORMAL TO STREAM): AS EXISTING  
 VERTICAL CLEARANCE ABOVE STREAMBED: AS EXISTING  
 WATERWAY OF FULL OPENING: AS EXISTING  
 WATER SURFACE ELEV. @ Q2.33- \_\_\_\_\_ ft VELOCITY- \_\_\_\_\_  
 Q10- \_\_\_\_\_ ft  
 Q25- \_\_\_\_\_ ft  
 Q50- \_\_\_\_\_ ft  
 Q100- \_\_\_\_\_ ft  
 IS THE ROADWAY OVERTOPPED BELOW THE Q100? \_\_\_\_\_ FREQUENCY: \_\_\_\_\_  
 RELIEF ELEVATION: \_\_\_\_\_ DISCHARGE OVER ROAD @ Q100: \_\_\_\_\_  
 AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: \_\_\_\_\_  
 VERTICAL CLEARANCE @ Q 25: \_\_\_\_\_  
 SCOUR: \_\_\_\_\_  
 REQUIRED CHANNEL PROTECTION: \_\_\_\_\_

EXISTING STRUCTURE

STRUCTURE TYPE: KING POST TRUSS & BURR ARCH COVERED BRIDGE YEAR BUILT: 1833  
 CLEAR SPAN (NORMAL TO STREAM): 90- FEET PERP. TO ABUTMENT FACES  
 VERTICAL CLEARANCE ABOVE STREAMBED: 16- FEET AVG.  
 WATERWAY OF FULL OPENING: \_\_\_\_\_  
 DISPOSITION OF STRUCTURE: TO REMAIN (WITH REPAIRS)  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: \_\_\_\_\_  
 WATER SURFACE ELEV. @ Q2.33- \_\_\_\_\_ ft VELOCITY- \_\_\_\_\_  
 Q10- \_\_\_\_\_ ft  
 Q25- \_\_\_\_\_ ft  
 Q50- \_\_\_\_\_ ft  
 Q100- \_\_\_\_\_ ft  
 LONG TERM STREAM BED CHANGES: \_\_\_\_\_  
 IS THE ROADWAY OVERTOPPED BELOW THE Q100? \_\_\_\_\_ FREQUENCY: \_\_\_\_\_  
 RELIEF ELEVATION: \_\_\_\_\_ DISCHARGE OVER ROAD @ Q100: \_\_\_\_\_

ADDITIONAL COMMENTS

NO HYDROLOGIC OR HYDRAULIC ANALYSIS HAS BEEN PERFORMED.  
 THE REHABILITATION WILL NOT CHANGE THE CLEAR OPENING SIZE OF THE BRIDGE.

TEMPORARY BRIDGE SKETCH  
NOT TO SCALE

UPSTREAM STRUCTURE: TOWN: WAITSFIELD DISTANCE: 1.0 MI.  
 HIGHWAY NO.: VT 100 STRUCTURE NO.: B178  
 NOTE: \_\_\_\_\_  
 DOWNSTREAM STRUCTURE: TOWN: WAITSFIELD DISTANCE: 1.3 MI.  
 HIGHWAY NO.: TH NO. 15 STRUCTURE NO.: B25  
 NOTE: \_\_\_\_\_  
 DESIGN CRITERIA:  
 1. DESIGN LIVE LOAD AASHTO PEDESTRIAN, 85 PSF  
 2. DESIGN SPAN 103'-11" @ BEARING TO @ BEARING  
 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 4 KSF ON LEDGE 10 KSF  
 4. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A  
 5. STRUCTURAL STEEL GRADE ASTM A 500, GRADE B  
 6. REINFORCING STEEL GRADE 60  
 7. CONCRETE HIGH PERFORMANCE CLASS B  $f_c' = 3500$  PSI CLASS C  $f_c' = 3000$  PSI  
 TRAFFIC MAINTENANCE:  
 1. IS TRAFFIC TO BE MAINTAINED? SEE NOTES IF YES, ON EXISTING STRUCTURE \_\_\_\_\_ OR ON TEMPORARY BRIDGE \_\_\_\_\_  
 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A TRAFFIC CONTROL SIGNALS REQUIRED \_\_\_\_\_  
 MINIMUM CLEAR SPAN (NORMAL TO STREAM): \_\_\_\_\_ VERTICAL CLEARANCE ABOVE STREAMBED: \_\_\_\_\_  
 WATERWAY OF FULL OPENING: \_\_\_\_\_  
 ARE SIDEWALKS REQUIRED? \_\_\_\_\_ IF SO, ON WHAT SIDE? \_\_\_\_\_  
 STRUCTURE TYPE: \_\_\_\_\_

PROFESSIONAL SEAL  
**NOT FOR CONSTRUCTION FINAL PLANS**

NO.	DATE	BY	DESCRIPTION

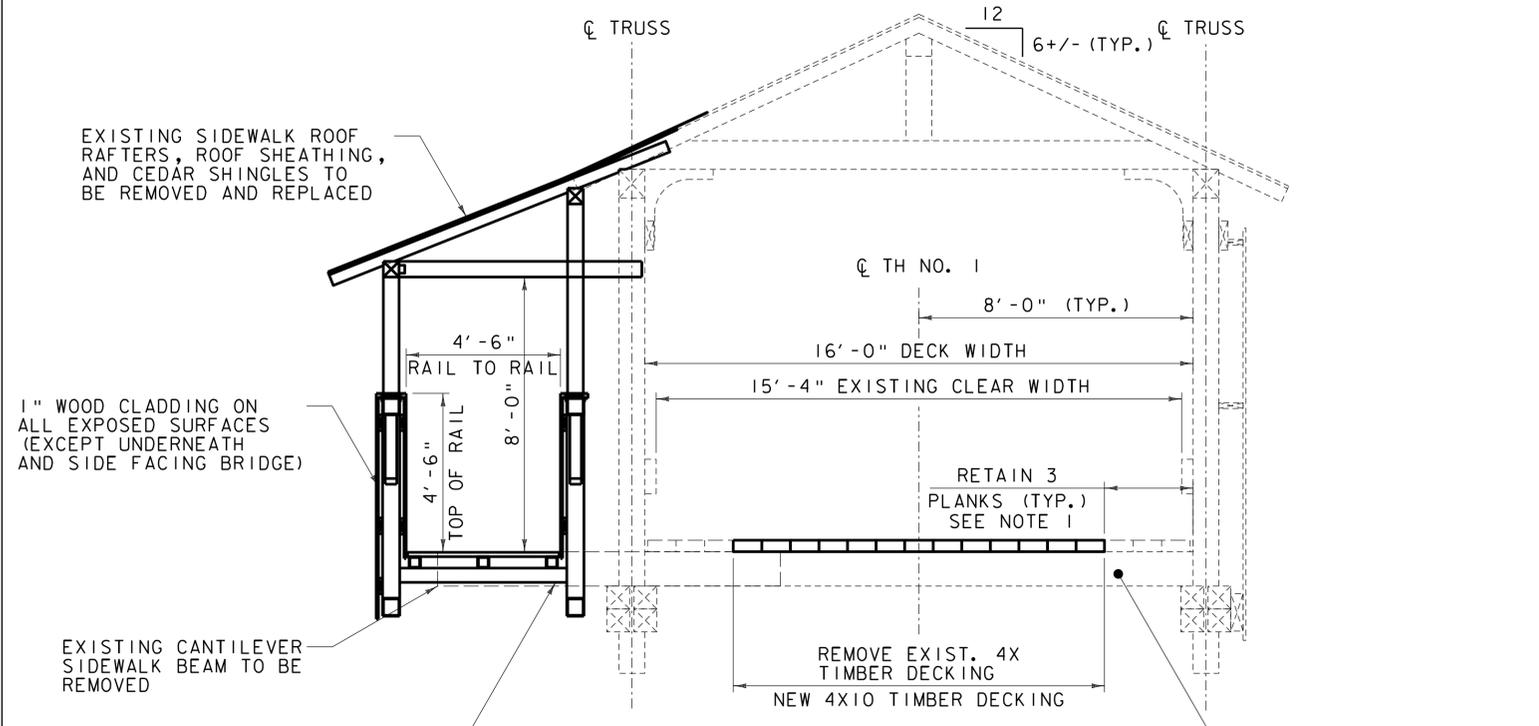
TOWN OF WAITSFIELD  
 9 BRIDGE STREET  
 WAITSFIELD, VT

VILLAGE COVERED  
 BRIDGE REHAB. &  
 BRIDGE STREET  
 STORMWATER  
 IMPROVEMENTS

SHEET TITLE  
 PRELIMINARY  
 INFORMATION SHEET

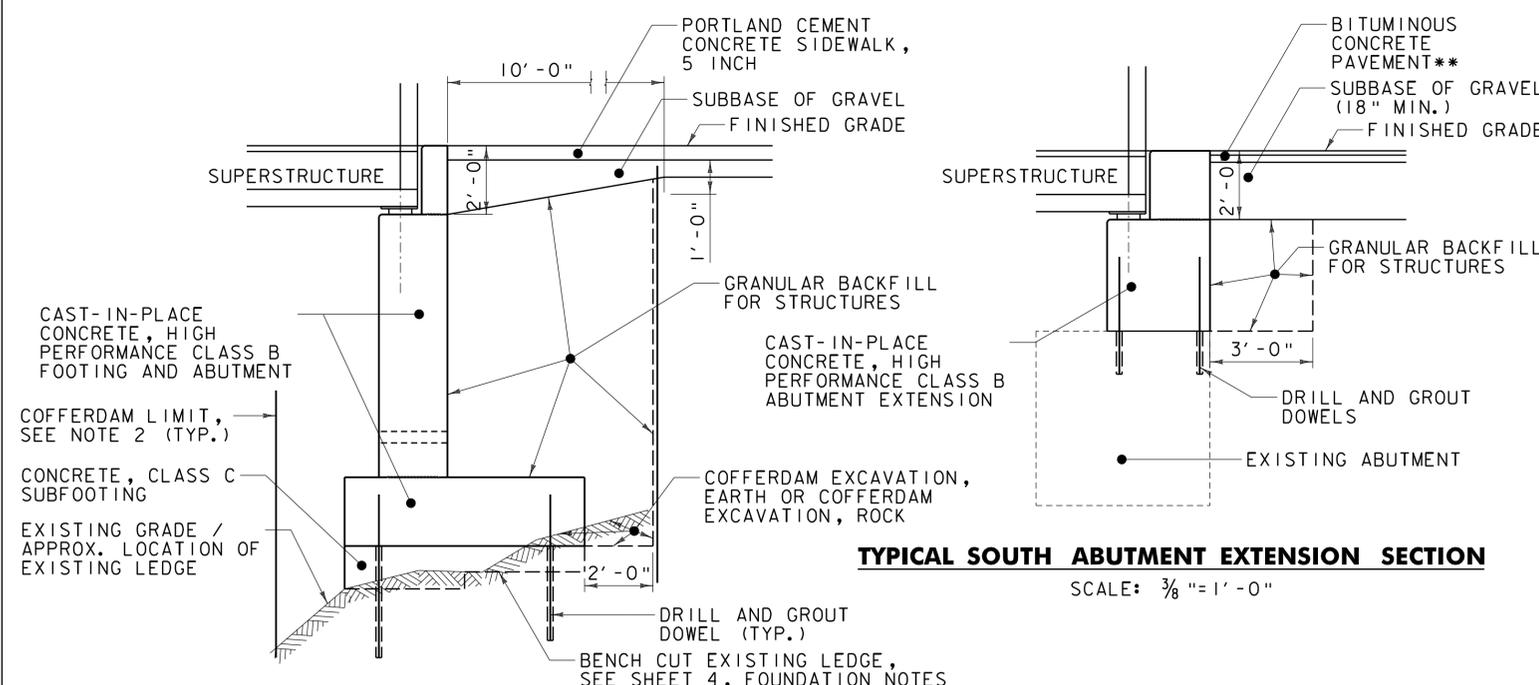
DRAWN BY RHB/JDG	DATE MAY 2014
CHECKED BY EPD	DBK PROJECT # 620922
PROJ. ENG. RHB	DBK ARCHIVE # 620922

SHEET NUMBER  
**7**  
 SHEET 7 OF 30



**TYPICAL BRIDGE SECTION**

SCALE: 3/8" = 1' - 0"



**TYPICAL SOUTH ABUTMENT EXTENSION SECTION**

SCALE: 3/8" = 1' - 0"

**TYPICAL NORTH ABUTMENT EXTENSION SECTION**

SCALE: 3/8" = 1' - 0"

\*\* 1 1/2" TYPE IV OVER  
 2 1/2" TYPE II

NOTES:

1. RETAIN 3 DECK PLANKS EACH SIDE, OR AS DIRECTED BY THE ENGINEER. REMOVAL AND REINSTALLATION OF ADDITIONAL DECK PLANKS WILL BE NECESSARY FOR REPLACEMENT OF FLOOR BEAMS INDICATED IN THESE DRAWINGS. PAYMENT FOR REMOVAL AND REINSTALLATION OF DECK PLANKS REQUIRED FOR REPLACEMENT OF FLOORBEAMS WILL BE INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".
2. COFFERDAM SIZE TO BE DETERMINED BY THE CONTRACTOR.
3. THE PAY LIMITS OF "COFFERDAM EVACUATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK" SHALL BE 2' - 0" OUTSIDE THE PERIMETER OF THE FOOTING.

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (GPS)

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**FINAL PLANS**

NO.	DATE	DESCRIPTION	BY
1	9/22/15	NEW WALL	EPD
2	8/10/15	NORTHEAST WALL UPDATE	PCB
3	7/31/15	WALL UPDATES	PCB
4			CKD

TOWN OF  
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 9 BRIDGE STREET  
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VILLAGE COVERED  
 BRIDGE REHAB. &  
 BRIDGE STREET  
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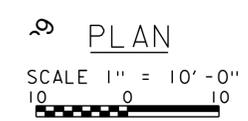
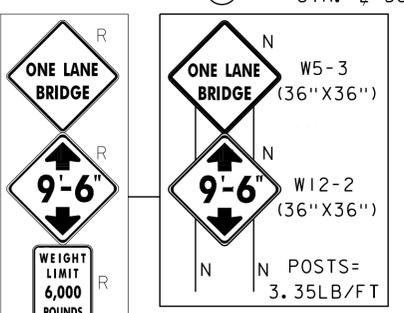
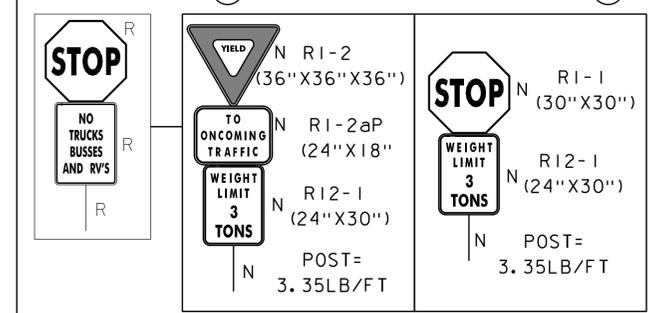
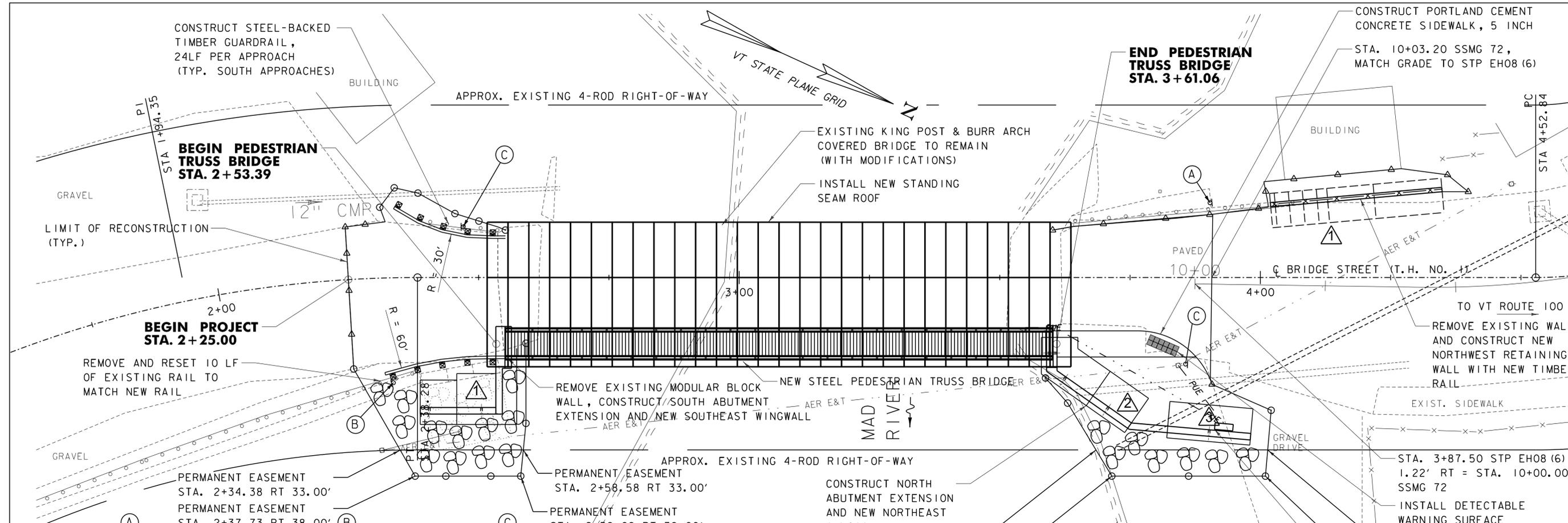
SHEET TITLE

PLAN & ELEVATION

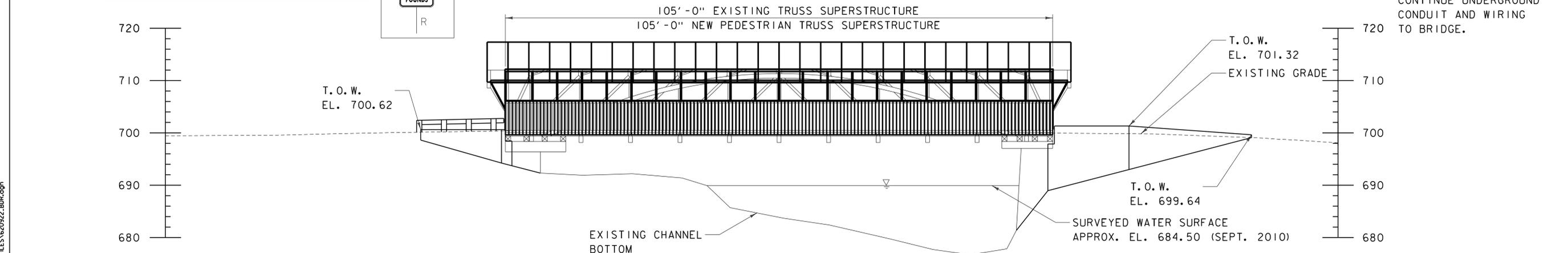
DRAWN BY RHB/JDG	DATE DEC. 2014
CHECKED BY EPD	DBK PROJECT # 620922
PROJ. ENG. RHB	DBK ARCHIVE # 620922

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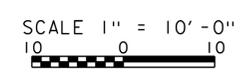
**10**



NOTE: SEE BRIDGE STREET STORMWATER IMPROVEMENT SHEETS FOR ROADWAY, STORMWATER, AND UTILITY RECONSTRUCTION DETAILS



ELEVATION AT DOWNSTREAM FASCIA



DATUM  
 VERTICAL NAVD 88  
 HORIZONTAL NAD 83 (GPS)