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Submittal Notes

To:	A.L. St. Onge Contractor	**From:**	Mike Davis / Mike Weigand
Fax:		**Pages:**	3
Phone:		**Date:**	5/10/16
Re:	Waitsfield BRF 013-4(39)	**Attn:**	Artie St. Onge

☐ **Urgent** X **For Review** X **Please Comment** ☐ **Please Reply** X **For Your Use**

Waitsfield BRF 013 – 4 (39): J. P. Carrara & Sons' Submittal Notes

The following notes are transmitted with the submission of precast concrete substructure drawings marked Rev #1 to highlight various items of coordination and should be forwarded to all parties, including VT AOT and McFarland Johnson.

1. JPC drawing F3: The joint between the Abutment #1 backwalls and wingwalls is increased from ½" to 1" as per the confirmed JPC RFI #5 and the wingwall lengths are updated accordingly.

2. JPC drawing F3: The Abutment #1 footing lengths are confirmed as per the confirmed JPC RFI #6 response. JPC confirmed that the location of anchor bolts for the girders in the footings is coordinated with the global footing layout dimensions.

3. JPC drawing F3.1: The break point and elevations are updated for the Abutment #1 backwall with a 2'0" offset from the centerline of bearing to the centerline of VT 100 at the centerline of the 1'0" thick portion of the backwall.

4. JPC drawing F3.2: JPC design calculations include leveling jack design calculations.

5. JPC drawings F4/F4.1: As confirmed in JPC RFI #4, the Abutment #2 cheekwalls are detailed as cast-in-place, to be placed with rapid set concrete in the field in the interest of handling, shipping, and installing the pile caps in a safe and controlled manner.
    a. For the drain from the hopper, due to the proximity of an insert to the acute corner in the cheekwall, a 7/8" diameter threaded rod is shown to be projecting 1'6" from the face of the cheekwall for field installation of the drain.

6. JPC drawing F4.2: JPC design calculations include a check of the bearing strength of concrete at the location of post-tensioning anchorages and confirm that additional reinforcement is not required.

7. JPC drawing F4.3: JPC details H and J are updated as coordinated with McFarland Johnson to add a second row of #6 vertical bars at the cheekwall locations and to coordinate the embedment of horizontal #6 bars from the NMB splice sleeves in the pile caps.

8. JPC drawing F4.4: JPC drawing F4.4 is added to show the detail of the cast-in-place cheekwalls at Wingwall #3 and Wingwall #4. Threaded stainless steel vertical #6 bars are proposed to project 8" above the top of pile caps and Lenton A2 standard stainless steel couplers, EL20A2SS, are proposed to splice threaded vertical bars in the cheekwalls. A cut sheet of the EL20A2SS is attached. Above the pile cap, #6 bars with standard hooks are proposed to project from the wingwalls. Stirrups and additional reinforcement shall be placed in accordance with the detail on drawing F4.4.

9. JPC drawings BW4, BW5, BW6, & BW7: The location and orientation of the PL ½" x 8" x 9" plates, marked as 'MK-MD5' for the expansion joint are modified to coordinate with the location shown in the Casco Bay drawings.

10. JPC drawings PC1.2, PC1.3, PC2.1, PC3.1, PC4.1, PC5.2, & PC5.3: The top and bottom #7 bent bars are included with 1'2" hooks that are turned 90-degrees and/or nested in several cases to allow for fit up. The #7 bars in the end pile caps, Mark 'MD-PC1' and Mark 'MD-PC5' are shortened at the location of the post-tensioning pockets to avoid this conflict.

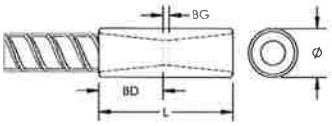
11. JPC drawings PC2, PC4, & PC5.1: The number of soil reinforcing anchors is updated as coordinated with McFarland Johnson.

Please contact us at 802-388-6363 with any questions or to discuss.

A2 Standard Coupler, Stainless Steel – EL20A2SS

Stainless steel couplers are specified whenever corrosive environmental conditions combine with the need for high load-bearing strength. LENTON stainless steel couplers are commonly used when the construction materials may come into contact with de-icing salts, salt water or marine environments. Typical applications include bridges and bridge decks.

- Designed to splice the same diameter bars where the second bar can be rotated and is not restricted in its axial direction
- Slim design maintains concrete cover
- Installs quickly and easily
- Duplex 2205 stainless steel provides a unique combination of strength and corrossion resistance



Part Number	EL20A2SS
Material	Stainless Steel Duplex 2205 (EN 1.4462)
Finish	Plain
100% U.S. Domestic Content	Yes
Rebar Size, Metric	20 mm
Rebar Size, US	#6
Rebar Size, Canada	20M
Diameter (Ø)	1.5"
Length (L)	2.81"
Bar Depth (BD)	1.09"
Bar Gap (BG)	0.63"
Unit Weight	0.5 lb
Designed to Meet	AASHTO ABNT NBR 8548:1984 ACI 318 Type 1 (125% Specified Yield) ACI 318 Type 2 (Specified Ultimate) ACI 349 ACI 359 AS3600 CAN/CSA - N287.2/.3/.4 IBC Type 1 (125% Specified Yield) IBC Type 2 (Specified Ultimate) US Army Corps of Engineers
Standard Packaging Quantity	40 pc
UPC	78285645272

Bar dimensions and weights listed may vary by region. Coupler sizes not shown may be available by special order. Contact your LENTON representative for more information.