

**GENERAL SHOP NOTES:**

- BEARING IS TO BE MARKED FOR IDENTIFICATION AND HAVE MATCH MARKS INDICATING CENTER LINES OF BEARING. MARKS SHALL INCLUDE LOCATION ON THE BRIDGE AND SHALL BE PERMANENT AND VISIBLE AFTER THE BEARING IS INSTALLED.
- SOLE PLATES TO BE MARKED AS TO HIGH SIDE AND TO BE MARKED WITH AHEAD STATION ARROW AS SHOWN.
- BEARING IS TO BE PROTECTED FROM MOISTURE AND DUST DURING SHIPMENT, STORAGE AND ERECTION.
- ALL BEARING COMPONENTS SHALL BE BLAST CLEANED TO ANS/AMS C2-18-83 THEN ZINC METALLIZED AS PER VAOT STD. SPEC. SUBSECTIONS 531 (MAX.) & 506.15(D). INTERNAL SURFACES OF COMPONENTS, STAINLESS STEEL AND PTFE DO NOT REQUIRE METALIZING. ALL EXTERIOR SURFACES SHALL BE SEALED WITH AN APPROVED SEALANT.
- ALL FREE EDGES OF PLATES TO BE COATED SHALL BE ROUNDED TO A 1/16 IN. RADIUS OR SMALLER HAVE THE EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE.
- STAINLESS STEEL TO BE WELDED AROUND ENTIRE PERIMETER OF THE PLATES USING THE GAS TUNGSTEN ARC WELDING (GTAW) PROCESS.
- POT BEARINGS TO BE IN ACCORDANCE WITH VAOT STD. SPECIFICATIONS SECTIONS 831 AND SECTION 731 AS APPLICABLE. BEARING TESTING TO BE IN ACCORDANCE WITH SECTION 831.
- DRAWING IN ENGLISH (IMPERIAL) UNITS. METRIC EQUIVALENTS SHOWN IN BRACKETS [ ] WHERE REQUIRED.

**GENERAL INSTALLATION NOTES:**

- BEARING ASSEMBLIES SHALL NOT BE LIFTED BY THEIR SOLE PLATES. ANY HANDLING SHALL SUPPORT THE BEARING UNIT FROM THE UNDERSIDE.
- PROTECT SLIDING SURFACES FROM WELD SPATTER, OIL, AND OTHER FOREIGN MATTER. AVOID EXCESSIVE EXPOSURE OF THE PTFE SURFACES TO DIRECT SUNLIGHT AT ALL TIMES.
- REMOVE KEYSER DEVICES (HANDS) AFTER THE BEARING HAS BEEN POSITIONED AT ITS PERMANENT LOCATION PRIOR TO ERECTION OF THE SUPERSTRUCTURE.
- WHEN WELDING THE SOLE PLATE TO THE GIRDER FLANGE, USE TEMPERATURE INDICATING MAX PEN OR OTHER SUITABLE MEANS TO INSURE THAT THE TEMPERATURE OF THE BEARING DOES NOT EXCEED 200°F. TEMPERATURE ABOVE THIS MAY DAMAGE THE PTFE OR THE ELASTOMER.
- DO NOT ALLOW WELDING CURRENT TO PASS THRU THE INTERNAL COMPONENTS OF THE BEARING. MAKE SURE GROUNDING LEADS ARE POSITIONED FOR FIELD WELDING TO PREVENT THIS. CURRENT THRU INTERNAL COMPONENTS WILL DAMAGE THE BEARING.
- FIELD WELDING TO THE BEARING UNIT DURING THE INSTALLATION PHASE SHALL BE PERFORMED BY QUALIFIED WELDERS USING APPROVED PROCEDURES AND WELDING ELECTRODES.
- DISASSEMBLY OF BEARING UNITS SHALL NOT BE DONE WITHOUT WRITTEN AUTHORIZATION FROM THE MANUFACTURER. UNAUTHORIZED DISASSEMBLY COULD RESULT IN FAILURE OF THE BEARING UNIT.
- THE CONTRACTOR SHALL ROTATE THE TOP PLATES OF THE BEARINGS AS REQUIRED IN THE FIELD SUCH THAT THE ALIGNMENT IS AS REQUIRED ON THE DESIGN PLANS.
- THE OVERALL HEIGHT OF THE BEARING UNITS HAVE BEEN CHANGED FROM THE HEIGHTS SHOWN ON THE DESIGN PLANS. BEARING SEAT ELEVATIONS MUST BE ADJUSTED BY THE CONTRACTOR TO COORDINATE WITH THESE APPROVED SHOP DRAWINGS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CORRECT ANCHOR BOLT SETTING AND BEARING SEAT ELEVATIONS. CONTRACTOR TO SET AND INSTALL ANCHOR BOLTS AS PER DESIGN PLANS. CONTRACTOR TO CALCULATE NEW BEARING SEAT ELEVATIONS AS REQ'D.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FIELD TOUCH-UP OF DAMAGED METALIZING AND SEAL COAT DUE TO FIELD WELDING AND BEARING INSTALLATION.
- COSMEC, INC. REPRESENTATIVE - DEBBIE PLANTE; (800) 455-3290

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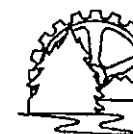
CONTRACTOR NOTE →

MATERIALS	SPECIFICATIONS
STRUCTURAL STEEL	ASTM A709 GR.50 [A709M GR.345]
STAINLESS STEEL	11 GA. ASTM A240 TYPE 304 POLISHED #8 MIRROR FINISH
PTFE	ASHTO 3/16" VIRGIN UNFILLED CONFORMING TO ASTM D4884 & VAOT STD. SPEC. 731.04
ELASTOMER	ASHTO GRADE NEOPRENE WITH A HARDNESS OF 50-DUROMETER MEETING SPECIFICATION M-251 & VAOT STD. SPEC. 731.03
BRASS	ASTM B-36, 1/2 HARD TEMPER
ANCHOR BOLTS	ASTM A449 - GALV. NUTS: ASTM A563-DH, GALV. PLATE WASHERS: ASTM A709 GR.50 GALVANIZED
BEARING PADS	PER VAOT STD. SPECIFICATION SECTION 731.01

CHECKED DEC 2 1 2010

**CAPACITY CHART**

	228 KIP [1014 kN] ZER. KIP [0 kN] FRIED. BEARINGS - ADJUSTMENT 2	267 KIP [1187 kN] NON-GLUED EXPANSION BEARINGS - LOCATE ADJUSTMENT 1	267 KIP [1187 kN] FRIED. BEARINGS - LOCATE ADJUSTMENT 1 & 2
DESIGN VERTICAL LOAD (MAX)	228 KIPS [1014 kN]	267 KIPS [1187 kN]	267 KIPS [1187 kN]
DESIGN LATERAL LOAD (MAX)	46 KIPS [204 kN]	54 KIPS [240 kN]	54 KIPS [240 kN]
DESIGN MOVEMENT	LONGITUDINAL ± 0 in. ± 1.125 in. TRANSVERSE ± 0 in. ± 1.125 in.	± 1.125 in. ± 1.125 in.	± 1.125 in. ± 1.125 in.
DESIGN ROTATION (RADS)	0.030 RADS	0.030 RAD	0.030 RAD
DESIGN COEFFICIENT OF FRICTION	N/A	4% MAX.	4% MAX.
CONFINED ELASTOMER	THICKNESS 1 in. PLAN AREA 65.47 sq. in.	1 in. 76.67 sq. in.	1 in. 76.67 sq. in.
COMPRESSIVE STRESS ON PTFE @ DESIGN CAPACITY	N/A	3.50 ksi (MAX.)	3.50 ksi (MAX.)
COMPRESSIVE STRESS ON ELASTOMER @ DESIGN CAPACITY	3.48 ksi	3.48 ksi	3.48 ksi



**Roaring Brook Consultants, Inc.**  
ENGINEERING A BETTER FUTURE  
15 RETAIL ROAD, SOUTH BEECHICK, MAINE 02066  
200 CHARLIE STREET, SUITE 100, WEST PALM BEACH, FL 33411  
PHONE: (877) 702-2644 FAX: (877) 264-5283

SEE SHEETS 1 THRU 6 FOR BEARING ASSEMBLY DETAILS

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

BRIDGE ON ROUTE 107  
TOWN OF STOCKBRIDGE, VT

STATE COUNTY S.J.N.  
VT WINDSOR N/A

PROJ. NO.: BR 022-1(20)

COSMEC, INC.

POT BEARING ASSEMBLIES

**Cosmeo** 1501 ROCKY RIDGE ROAD  
P.O. BOX 2109  
ATHENS, TEXAS 75751

REV. NONE DRAWN BY JH DESIGNED BY JS

DATE 10/2/08 DATE 10/19/08

PROJECT NO. 1 JOB NO.: 10718

DESIGNED BY: AUSTIN CONSTRUCTION CO. DRAWING NUMBER: 10718-GN1

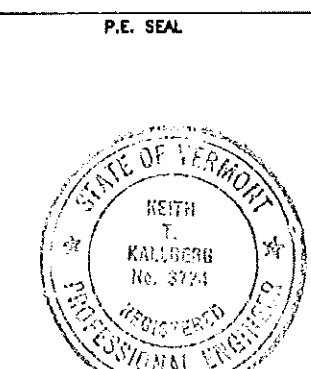
RECEIVED

CK'D BY JSD OK'D BY RBY

DEC 23 2010

RESUBMIT APPROVED

BY CPW DATE 12/30/10



*Handwritten signature*

REV.	DESCRIPTION	BY	DATE	CHKD	DATE
1	REVISION NOTE PER APPROVER	JR	09/10/08	DRP	02/01/09