

COSMEC INC. / DYNAMIC RUBBER

P.O. Box 2159
1501 Rocky Ridge Road
Athens, TX 75751
TEL: 903.677.2871 FAX: 903.675.4776

TRANSMITTAL SHEET

TO: A.L. ST.ONGE CONTRACTOR
ATTN: STACY ST. ONGE alstonge@pivot.net
CC: KERRY MARCHAND

DATE: 3/12/14
JOB: BRO 1448 (40)
RE: SHOP DRAWINGS SUBMITTAL FOR APPROVAL
DRP JOB NO: 12341 LOCATION: FRANKLIN CO., VT

WE TRANSMIT TO YOU UNDER SEPARATE COVER HERE WITH THE FOLLOWING DRAWINGS:

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS
12341-GN1	0	1	GENERAL NOTES	APPROVER NOTES
12341-E1	0	1	ERECTION DIAGRAM	
12341-D1	0	1	SHOP DRAWING	APPROVER NOTES
12341-D2	0	1	SHOP DRAWING	APPROVER NOTES
12341-D3	0	1	SHOP DRAWING	APPROVER NOTES

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS

COMMENTS: **THE ATTACHED SHOP DRAWINGS ARE SUBMITTED FOR APPROVAL. PLEASE FORWARD THIS PACKAGE TO THE ENGINEER FOR REVIEW AND ADVISE THE APPROVAL STATUS AS SOON AS POSSIBLE.**

****APPROVER NOTES REQUIRE REPLY****

THE ABOVE PRINTS ARE SUBMITTED TO YOU FOR:

(XXX) Approval	() Final Approval	() Distribution
() Field Use	() Fabrication	(XXX) E-MAIL
BY: () Next Day Air	() Second Day Air	() Messenger
() UPS	() First Class Mail	() Fax

Thank you
JENNIFER GARZA
COSMEC INC. / DYNAMIC RUBBER PRODUCTS
WWW.COSMECINC.COM

GENERAL NOTES

GENERAL NOTES:

1. ALL BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531, 714, AND 731 OF THE 2011 VTAOT STANDARD SPECIFICATIONS.
2. ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND AN ARROW THAT POINTS UPSTATION. MARKS SHALL BE PERMANENT AND SHALL BE VISIBLE AFTER THE BEARING IS INSTALLED.
3. SHOP TO MARK ⊗ HIGH SIDE OF THE PAD.
4. VTAOT WILL BE NOTIFIED (7) DAYS BEFORE THE START OF FABRICATION.
5. ALL DIMENSIONS ARE IN INCHES.
6. COSMEC REPRESENTATIVE KERRY MARCHAND:
(508) 455-3290

MATERIAL NOTES:

1. ELASTOMER: 60 DUROMETER GR. 4 NEOPRENE WITH A SHEAR MODULUS OF 152 PSI +/- 15%
2. INTERNAL STEEL SHIMS: ASTM A36, A1011 GR. 36 OR EQUAL
3. EXTERNAL SHIM PLATE: AASHTO M270M/M270 GRADE 36 (GALVANIZED)

EXTERNAL SHIM PLATE: AASHTO M270M/M270 GRADE 36 (GALVANIZED)

APPROVER NOTE:
PLEASE VERIFY THAT IT IS ACCEPTABLE TO USE GRADE 36 STEEL FOR THE EXTERNAL SHIM PLATES.

CONTRACTOR NOTES:

1. NONE

FINISH NOTES:

1. GALVANIZED IN ACCORDANCE WITH SUBSECTION 726.08.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
TOWN OF ENOSBURG
BOSTON POST ROAD T.H. 2
CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

DYNAMIC RUBBER:
LAMINATED BEARING PADS

Cosmec 1501 ROCKY RIDGE ROAD
P.O. BOX 2159
ATHENS, TEXAS 75751

SCALE: NONE	DRAWN BY: CV DATE: 3/7/14	CHECKED BY: ELS DATE: 3/11/14
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△						SHEET GN1 OF 1	JOB NO.: 12341	
REV.	DESCRIPTION	BY	DATE	CK'D	DATE	CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.	DRAWING NUMBER 12341-GN1	REV. 0

BEARING AT ABUTMENT 1

BEARING AT ABUTMENT 2



AHEAD
STATION →



ERECTION DIAGRAM

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
AGENCY OF TRANSPORTATION
TOWN OF ENOSBURG
BOSTON POST ROAD T.H. 2
CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

**DYNAMIC RUBBER:
LAMINATED BEARING PADS**

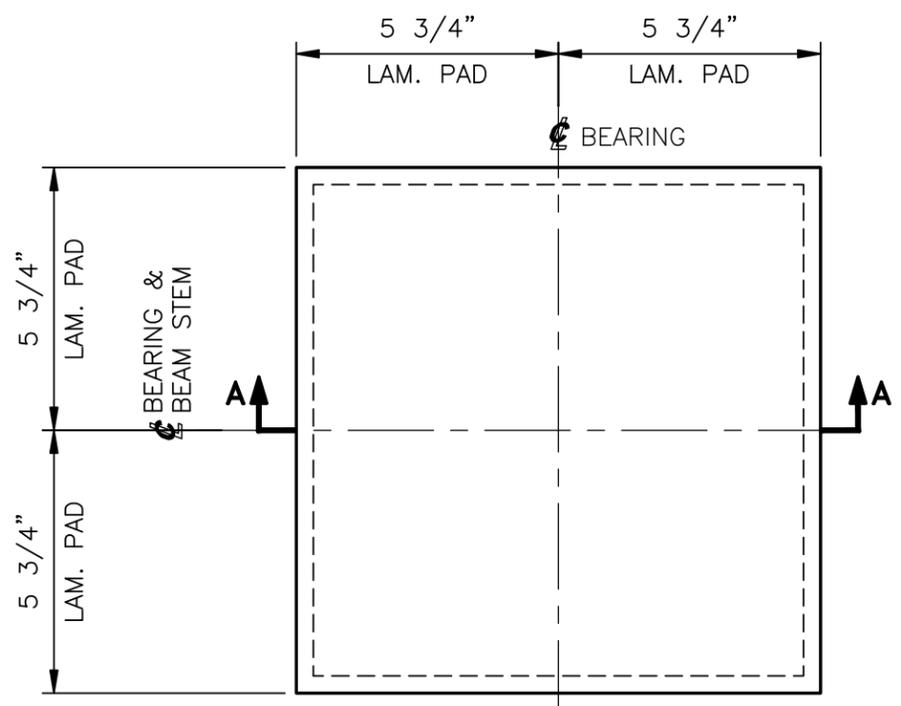
Cosmea 1501 ROCKY RIDGE ROAD
P.O. BOX 2159
ATHENS, TEXAS 75751

SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

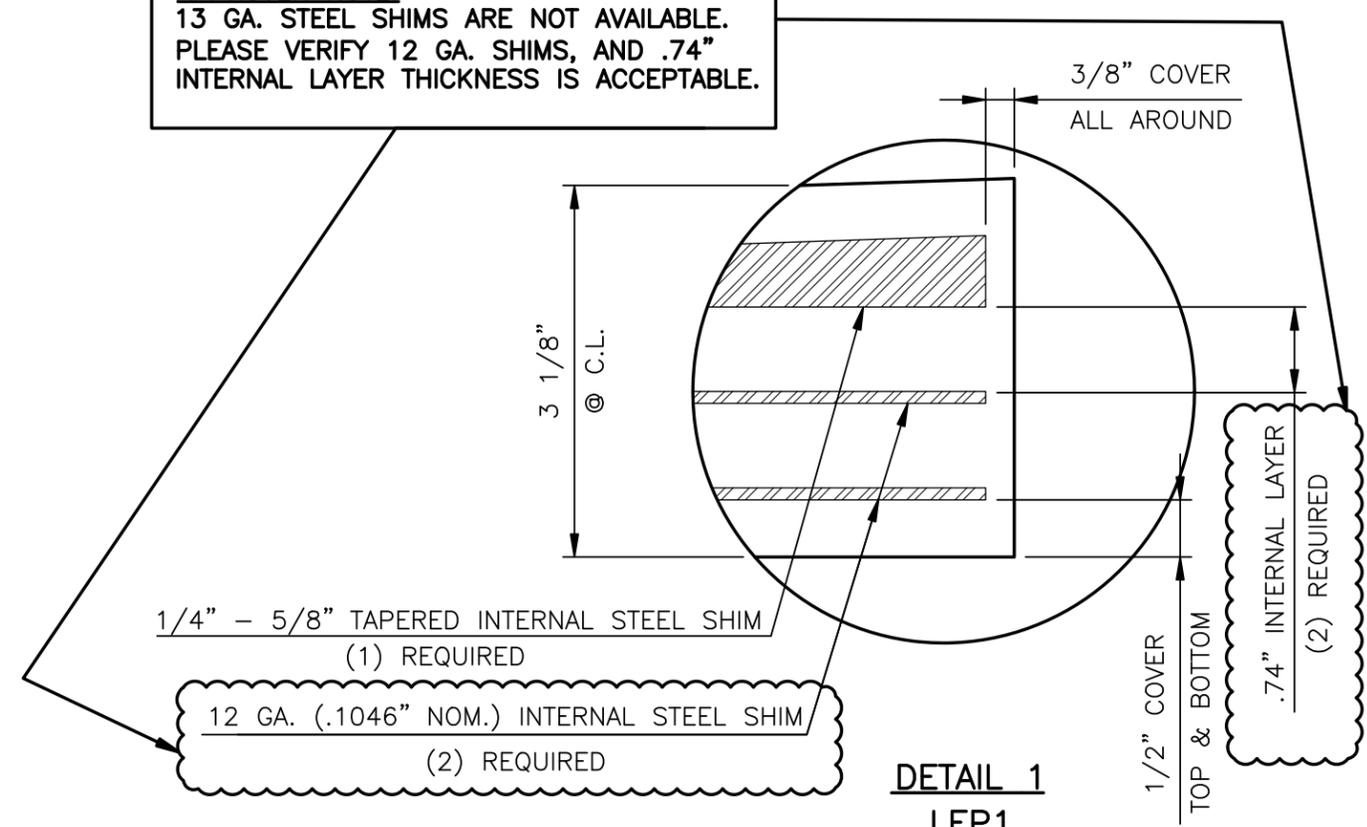
SHEET E1 OF 1 **JOB NO.: 12341**

REV.	DESCRIPTION	BY	DATE	CK'D	DATE	CUSTOMER:	DRAWING NUMBER	REV.
						A.L. ST. ONGE CONTRACTOR INC.	12341-E1	0

APPROVER NOTE:
 13 GA. STEEL SHIMS ARE NOT AVAILABLE.
 PLEASE VERIFY 12 GA. SHIMS, AND .74" INTERNAL LAYER THICKNESS IS ACCEPTABLE.



PLAN VIEW



**DETAIL 1
LEP1**

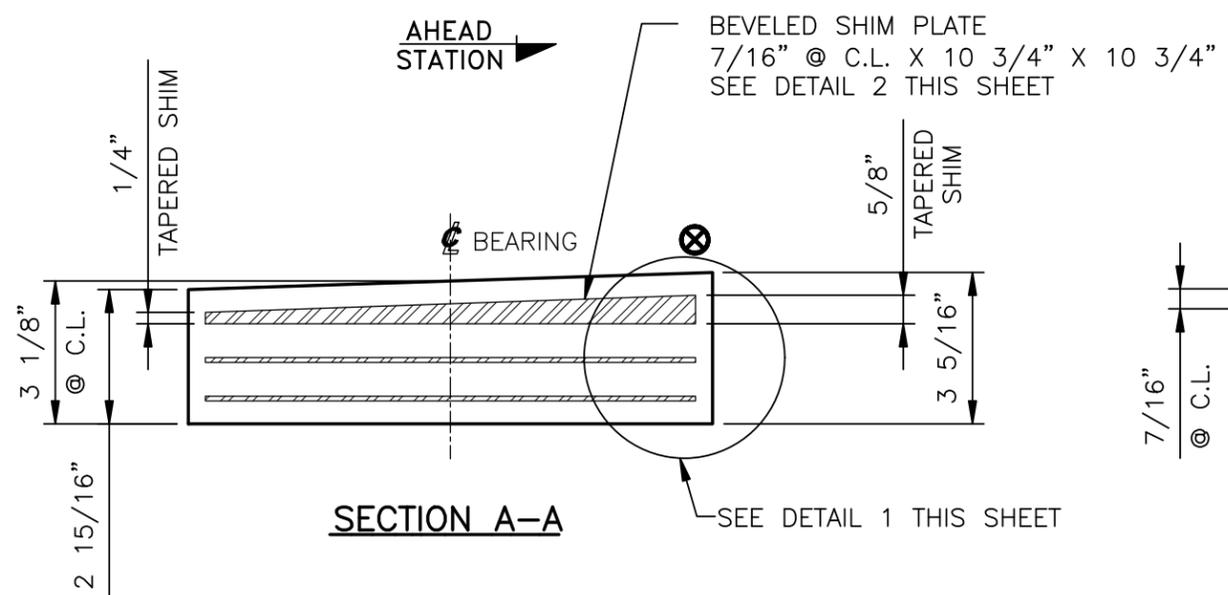
BEVELED LAMINATED BEARING PAD
 3 1/8" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NEOPRENE
 (6) REQUIRED AT ABUTMENT 1

TEST 1

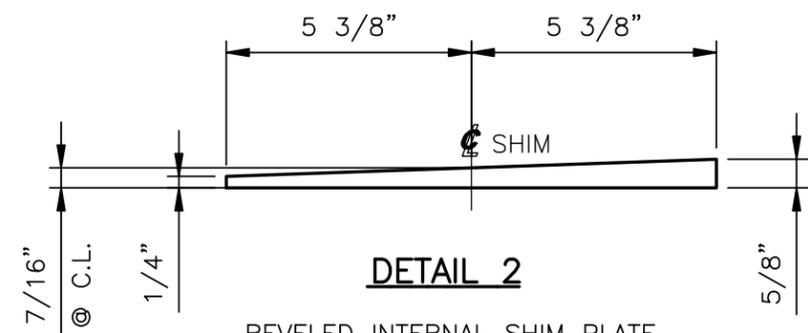
BEVELED LAMINATED BEARING PAD
 3 1/8" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NEOPRENE
 (2) REQUIRED FOR TESTING

MAX. DESIGN LOAD

DEAD LOAD = 35.8 kips
 LIVE LOAD = 38.8 kips



SECTION A-A



DETAIL 2

BEVELED INTERNAL SHIM PLATE
 7/16" @ C.L. X 10 3/4" X 10 3/4"
 AASHTO M270M/M270 GR. 36
 (6) REQUIRED AT ABUTMENT 1

LAMINATED ELASTOMERIC BEARING PAD

LEP1

(6) REQUIRED ABUTMENT 1

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 TOWN OF ENOSBURG
 BOSTON POST ROAD T.H. 2
 CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

**DYNAMIC RUBBER:
LAMINATED BEARING PADS**

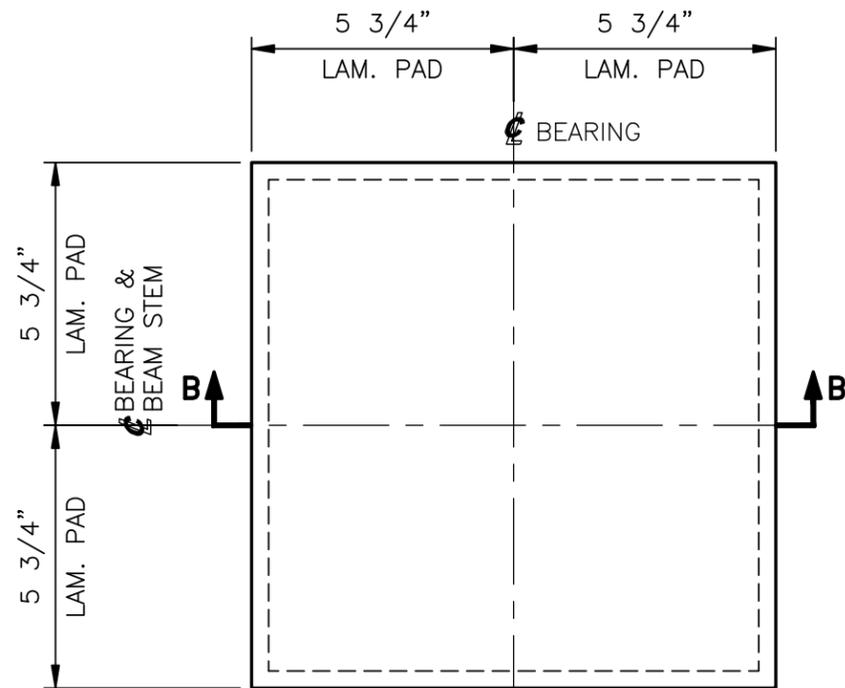
Cosmea 1501 ROCKY RIDGE ROAD
 P.O. BOX 2159
 ATHENS, TEXAS 75751

SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

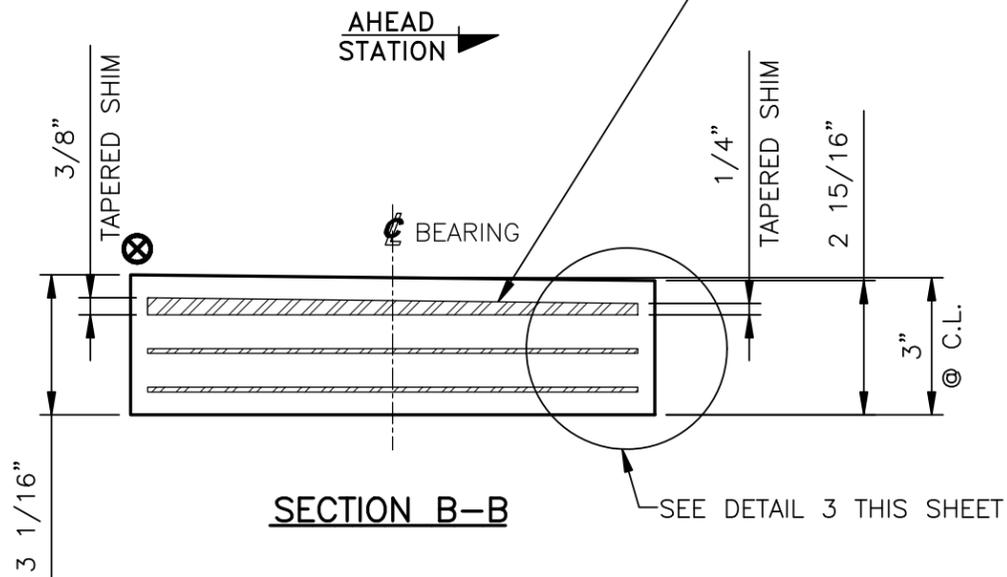
SHEET 1 OF 3 **JOB NO.: 12341**

REV.	DESCRIPTION	BY	DATE	CK'D	DATE	CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.	DRAWING NUMBER 12341-D1	REV. 0
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APPROVER NOTE:
 13 GA. STEEL SHIMS ARE NOT AVAILABLE.
 PLEASE VERIFY 12 GA. SHIMS, AND .74" INTERNAL LAYER THICKNESS IS ACCEPTABLE.



PLAN VIEW



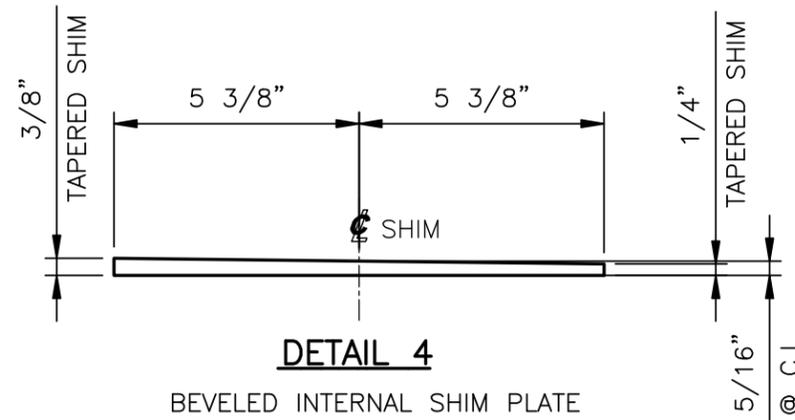
SECTION B-B

LAMINATED ELASTOMERIC BEARING PAD

LEP2

(6) REQUIRED ABUTMENT 2

BEVELED SHIM PLATE
 5/16" @ C.L. X 10 3/4" X 10 3/4"
 SEE DETAIL 4 THIS SHEET

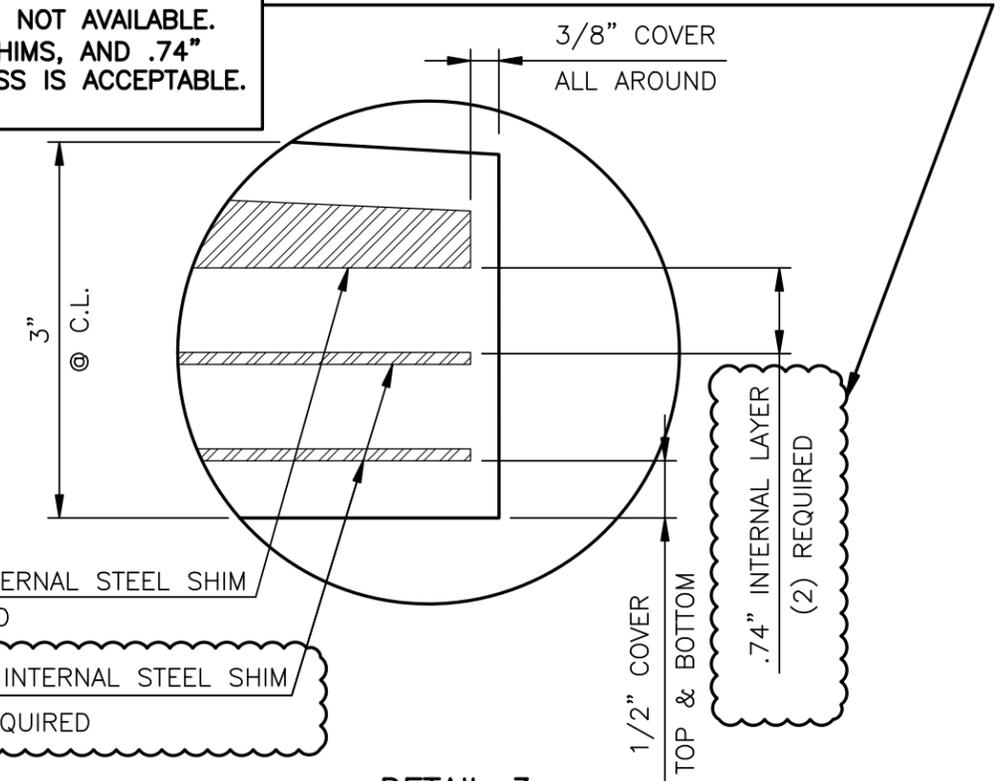


DETAIL 4

BEVELED INTERNAL SHIM PLATE
 5/16" @ C.L. X 10 3/4" X 10 3/4"
 AASHTO M270M/M270 GR. 36
 (6) REQUIRED AT ABUTMENT 2

MAX. DESIGN LOAD

DEAD LOAD = 35.8 kips
 LIVE LOAD = 38.8 kips



DETAIL 3

LEP2

BEVELED LAMINATED BEARING PAD
 3" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NEOPRENE
 (6) REQUIRED AT ABUTMENT 2

TEST2

BEVELED LAMINATED BEARING PAD
 3" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NEOPRENE
 (2) REQUIRED FOR TESTING

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 TOWN OF ENOSBURG
 BOSTON POST ROAD T.H. 2
 CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

DYNAMIC RUBBER:
LAMINATED BEARING PADS

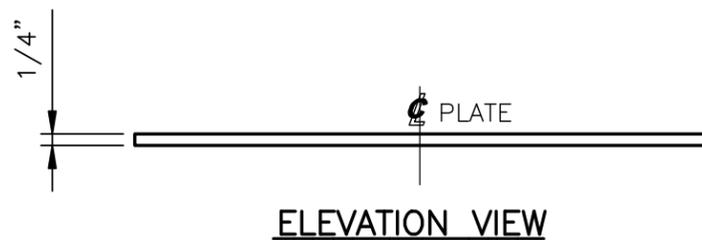
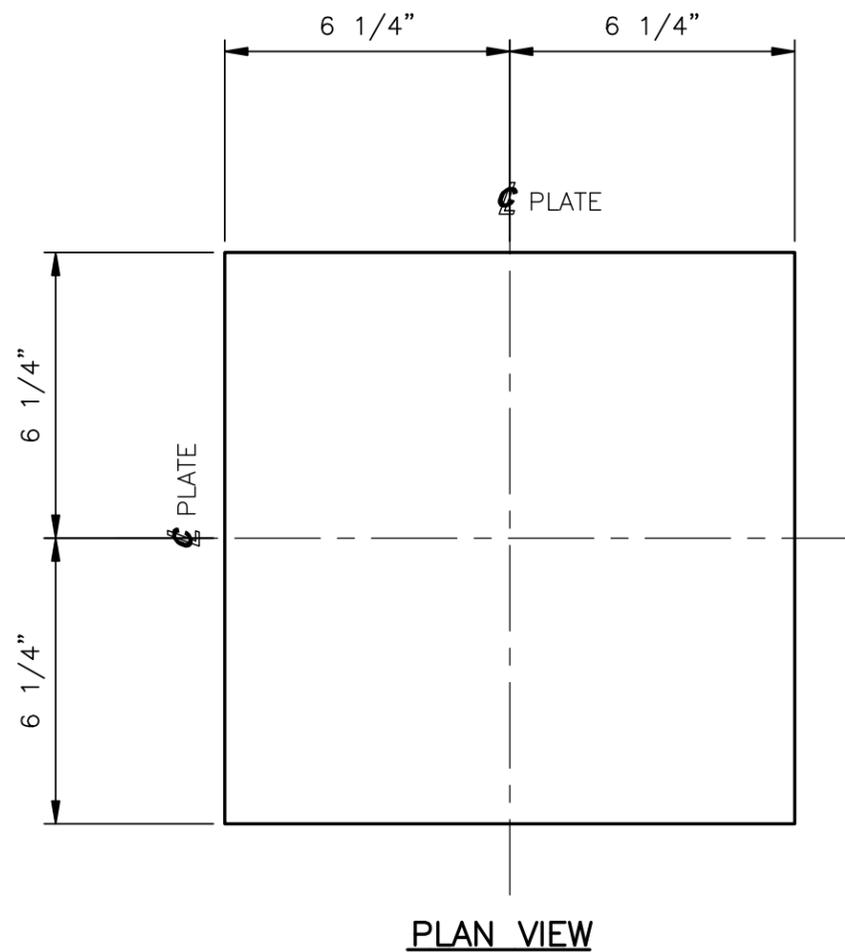
Cosmea 1501 ROCKY RIDGE ROAD
 P.O. BOX 2159
 ATHENS, TEXAS 75751

SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

SHEET 2 OF 3 **JOB NO.: 12341**

CUSTOMER:	DRAWING NUMBER	REV.
A.L. ST. ONGE CONTRACTOR INC.	12341-D2	0

REV.	DESCRIPTION	BY	DATE	CK'D	DATE



**EXTERNAL SHIM PLATE
SHM1**

1/4" X 12 1/2" X 12 1/2" SHIM PLATE
AASHTO M270M/M270 GRADE 36 (GALVANIZED)
(12) REQUIRED FOR STRUCTURE

APPROVER NOTE:
PLEASE VERIFY THAT IT IS
ACCEPTABLE TO USE GRADE 36
STEEL FOR THE EXTERNAL
SHIM PLATES.

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT AGENCY OF TRANSPORTATION TOWN OF ENOSBURG BOSTON POST ROAD T.H. 2 CLASS 2, BRIDGE NO: 48		
STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A
PROJ. NO.: BRO 1448 (40)		
DYNAMIC RUBBER: LAMINATED BEARING PADS		
Cosmea		1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751
SCALE: NONE	DRAWN BY: CV DATE: 3/7/14	CHECKED BY: ELS DATE: 3/11/14
SHEET 3 OF 3		JOB NO.: 12341
REV.	DESCRIPTION	BY DATE CK'D DATE
		CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.
		DRAWING NUMBER REV. 12341-D3 0

△					
REV.	DESCRIPTION	BY	DATE	CK'D	DATE