| REVISIONS | | | | | |
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| ZONE | REV | DESCRIPTION | REVISED BY | DATE | APPROVED |
| | | | | | |
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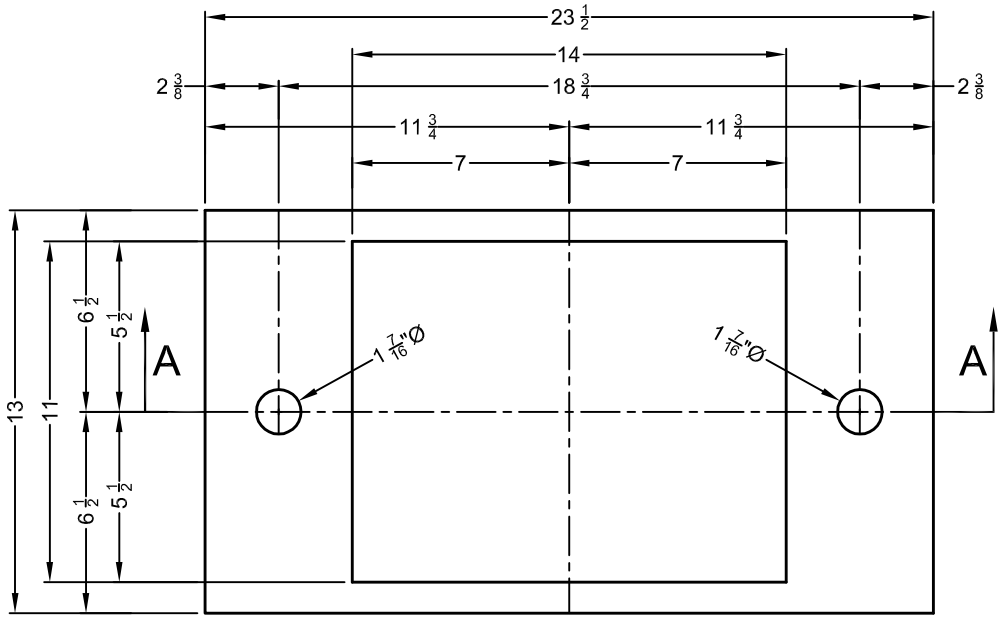
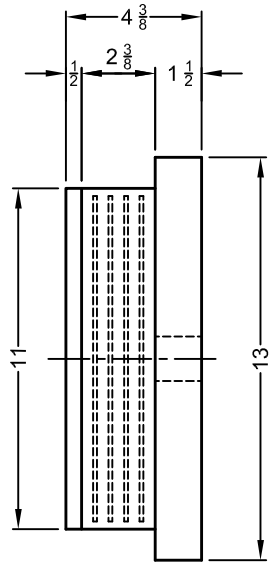



PLAN VIEW



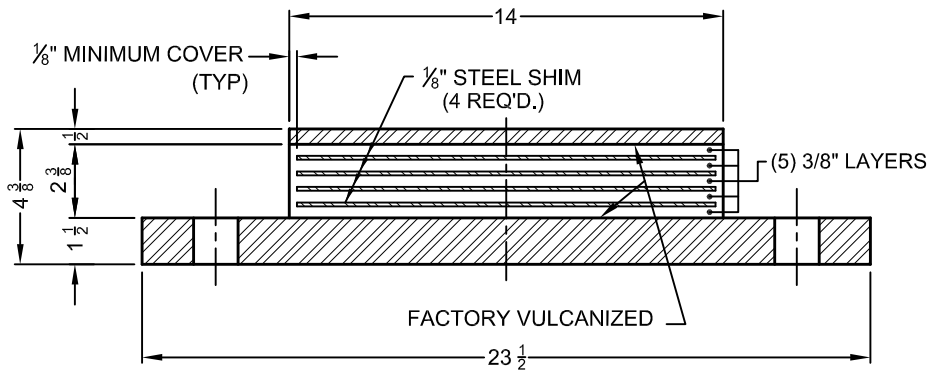

SIDE VIEW

NOTES:

1. MANUFACTURING FACILITY LOCATION:
   AMSCOT STRUCTURAL PRODUCTS CORP. CONTACT- PETER SOMOGYI
   241 E. BLACKWELL STREET PH: 973-989-8800
   DOVER, N.J. 07801 FAX: 973-989-5651
2. ALL BEARING PADS TO BE MANUFACTURED IN ACCORDANCE WITH AASHTO SECTION 18. THE ELASTOMER SHALL BE GRADE 3 NEOPRENE WITH A DUROMETER HARDNESS OF 50 ± 5. THE STEEL REINFORCING PLATES SHALL CONFORM TO ASTM A36.
3. THE BEARINGS ARE DESIGNED SO THE SUPERSTRUCTURE MAY BE ERECTED WHEN THE AMBIENT AIR TEMPERATURE IS WITHIN THE RANGE OF 40° F. TO 80° F.
4. ALL STEEL TO BE FACTORY VULCANIZED TO THE ELASTOMER DURING THE PRIMARY MOLDING PROCESS.
5. ALL EXTERNAL STEEL TO BE ASTM A709 GR. 50 METALIZED.
6. ALL DIMENSIONS ARE IN INCHES , UNLESS OTHERWISE NOTED.
7. TOLERANCES

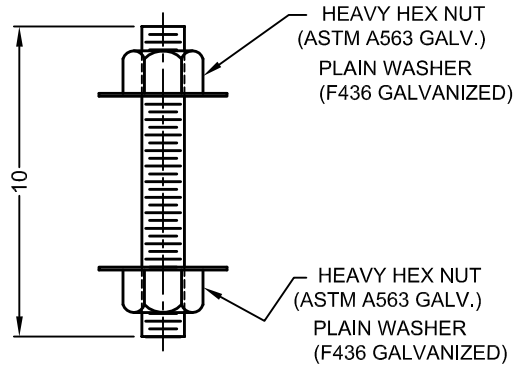
| Description | Tolerance | Reference |
|---|---|---|
| Elastomer: | | |
| Elastomeric bearing design thickness | -0, +1/8" | AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing M251-6 Table 2 |
| Elastomeric bearing plan dimensions | -0, +1/4" | |
| Edge Cover over External Steel Plates | 1/8" minimum ** | |
| Bedding Surface (Top and Bottom) over Internal Steel Plates | 1/4" minimum *** | |
| Elastomeric bearing hole or slot size | -0, +1/16" | |
| Elastomeric bearing hole or slot location | ±1/16" from centerline | |
| Thickness of individual layers of elastomer in steel laminated elastomeric bearings at any point within the bearing. | Thickness shall not be vary more than ± 20% of design thickness and in no case exceed the design thickness by 1/8" | |
| Load Plates: | | |
| Overall vertical thickness | -0.063, +0.063" | AASHTO LRFD Bridge Construction Specifications Table 18.1.4.2-1 |
| Overall Dimensions | -0.250, +0.250" | |

8. MASONRY & SOLE PLATE HOLE/SLOT TOLERENCES
   STANDARD HOLES Ø = -0", +1/16"
   OVERSIZED HOLES Ø = -0", +3/8"
   STANDARD SLOTS WIDTH = -0, +1/16"
   OVERSIZED SLOTS WIDTH = -1/16", +1/16"
   SHORT SLOT LENGTH = Ø + 3/8"
   LONG SLOT LENGTH = 2.5 x Ø
9. THE TEMPERATURE OF THE STEEL ADJACENT TO THE ELASTOMER SHALL NOT EXCEED 200° F. TEMPERATURE SHALL BE CONTROLLED BY THE USE OF TEMPERATURE INDICATING CRAYONS OR OTHER DEVICES APPROVED BY THE ENGINEERS.




SECTION A-A

| ELASTOMERIC BEARING TABLE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | GIRDERS | QTY. | FIX/EXP | DL + SDL (kips) | LL W/O IMP. (kips) | TOTAL DESIGN REACTION (kips) | SHAPE FACTOR | MOVEMENT IN SHEAR |
| ABUTMENT 1 | B1-4 | 4 | FIX | 28.13 | 54.85 | 99.43 | 8.21 | N/A |




FULLY THREADED H.S. ROD
(F1554 Gr105 GALV.)
1 3/8"Ø x 10" LG.

CONNX. BOLT DETAIL
QTY. REQ'D = 8 ASSY.

THIS DRAWING IS FOR SHOP FABRICATION ONLY
PLEASE REFER TO CONTRACT DRAWINGS FOR
FIELD INSTALLATION OF BEARINGS AND ANCHOR BOLTS.

| Inspection Block |
|---|
| Initial Dim. Check |
| Sign:_____Date:_____ |
| In Process Dim. Chk. |
| Sign:_____Date:_____ |
| 100% Visual Weld Insp. |
| Sign:_____Date:_____ |
| Paint Insp.(see form) |
| Sign:_____Date:_____ |
| Final Inspection |
| Sign:_____Date:_____ |

BEAST DESIGN SPECIMEN #1
93 ROAD 1
PISCATAWAY, NEW JERSEY 08854

FEDERAL PROJECT NO. :

CONTRACT NO. : | PIN NO. :

# FIXED ELASTOMERIC BEARING ASSEMBLY DETAILS

**AMSCOT**
STRUCTURAL PRODUCTS CORP.

| SCALE: N.T.S. | APPRV'D: | DRAWN BY: E.J.G. |
|---|---|---|
| DATE: 1/21/19 | BF | REVISION: 0 |

FOR: RON-JON CONSTRUCTION

DWG NO: RJC19A1RO | | SHEET 1 OF 5

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | REVISED BY | DATE | APPROVED |
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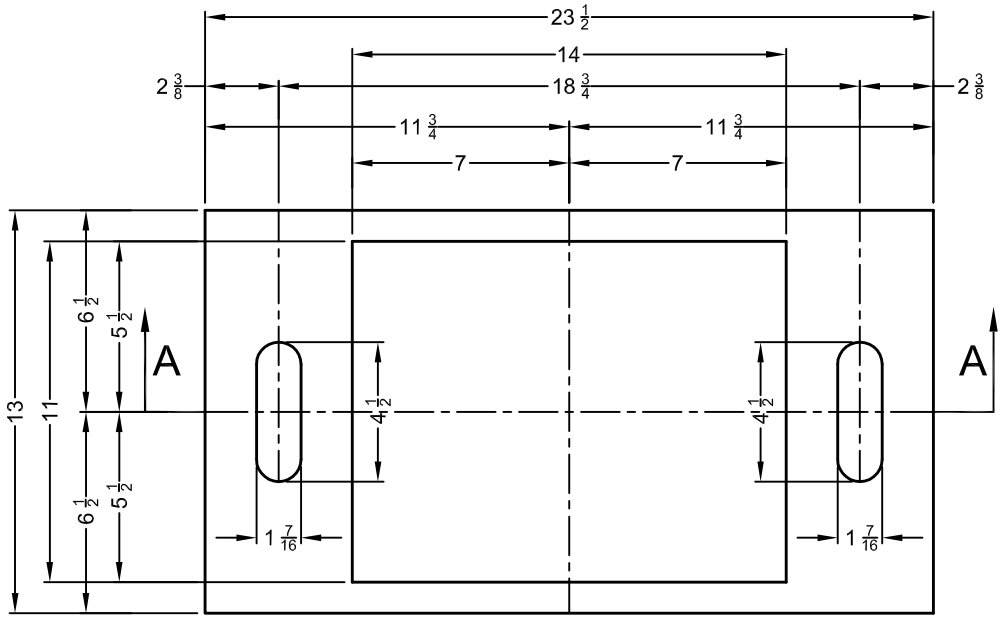
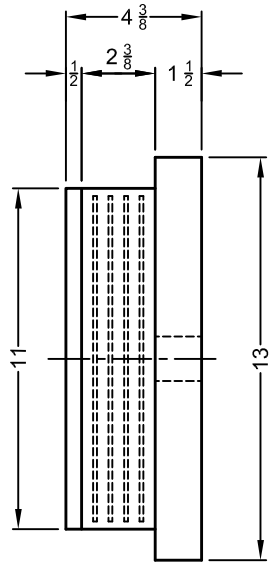
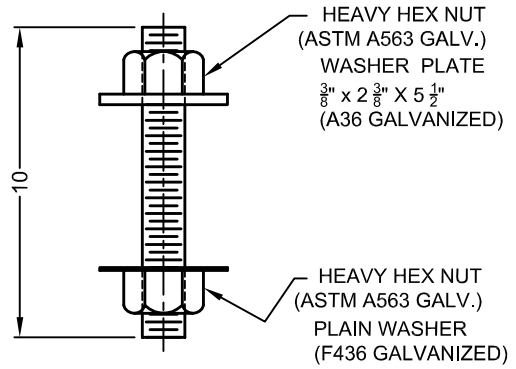



PLAN VIEW

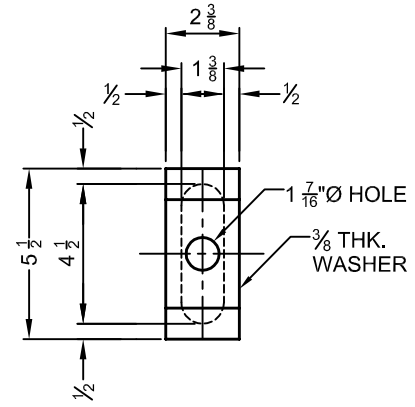



SIDE VIEW

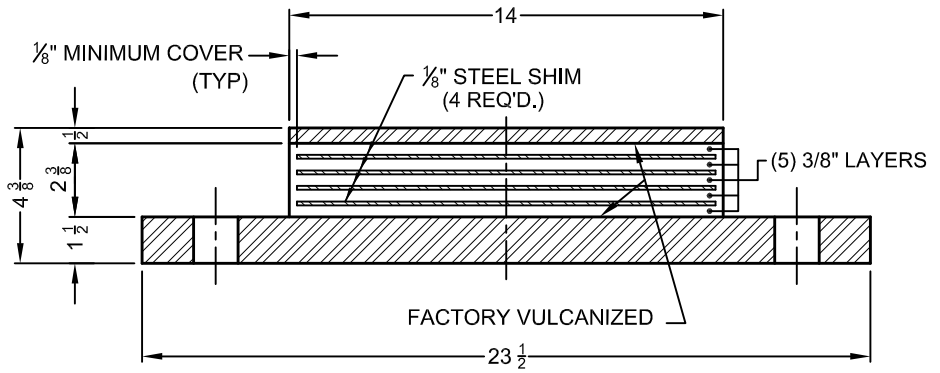



FULLY THREADED H.S. ROD
(F1554 Gr105 GALV.)
1 3/8"Ø x 10" LG.

CONNX. BOLT DETAIL
QTY. REQ'D = 8 ASSY.




WASHER PLATE DETAIL
QTY. REQ'D = 8




SECTION A-A

| ELASTOMERIC BEARING TABLE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | GIRDERS | QTY. | FIX/EXP | DL + SDL (kips) | LL W/O IMP. (kips) | TOTAL DESIGN REACTION (kips) | SHAPE FACTOR | MOVEMENT IN SHEAR |
| ABUTMENT 2 | B1-4 | 4 | EXP | 28.13 | 54.85 | 99.43 | 8.21 | 0.36" |

THIS DRAWING IS FOR SHOP FABRICATION ONLY
PLEASE REFER TO CONTRACT DRAWINGS FOR
FIELD INSTALLATION OF BEARINGS AND ANCHOR BOLTS.

SEE SHEET 1 OF 5 FOR NOTES

| Inspection Block |
|---|
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| In Process Dim. Chk.<br>Sign:_____Date:_____ |
| 100% Visual Weld Insp.<br>Sign:_____Date:_____ |
| Paint Insp.(see form)<br>Sign:_____Date:_____ |
| Final Inspection<br>Sign:_____Date:_____ |

BEAST DESIGN SPECIMEN #1
93 ROAD 1
PISCATAWAY, NEW JERSEY 08854

FEDERAL PROJECT NO. :

CONTRACT NO. : | PIN NO. :

EXPANSION ELASTOMERIC BEARING ASSEMBLY DETAILS

**AMSCOT**
STRUCTURAL PRODUCTS CORP.

| SCALE: N.T.S. | APPRV'D: | DRAWN BY: E.J.G. |
|---|---|---|
| DATE: 1/21/19 | BF | REVISION: 0 |

FOR: RON-JON CONSTRUCTION

DWG NO: RJC19A2RO | SHEET 2 OF 5

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | REVISED BY | DATE | APPROVED |
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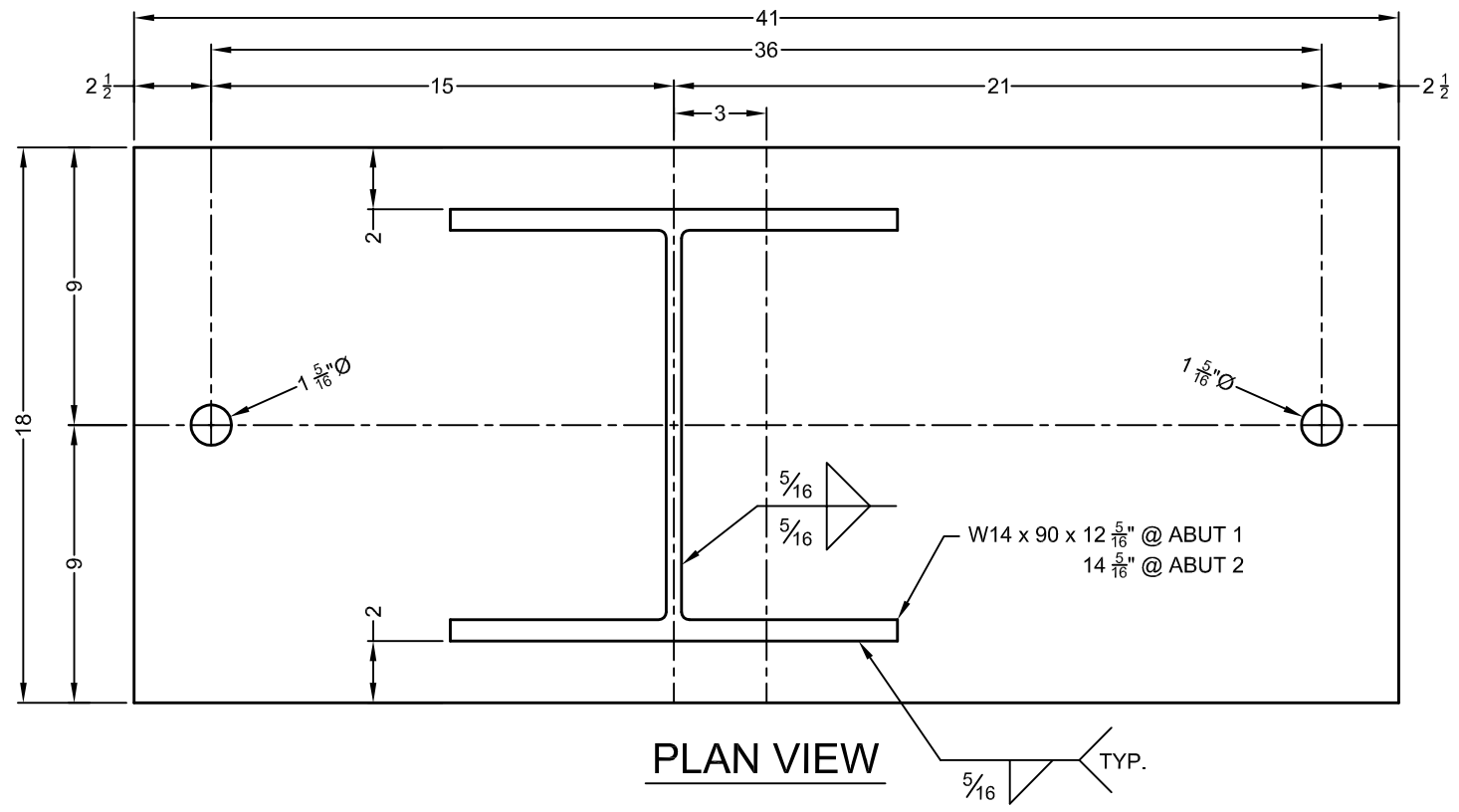
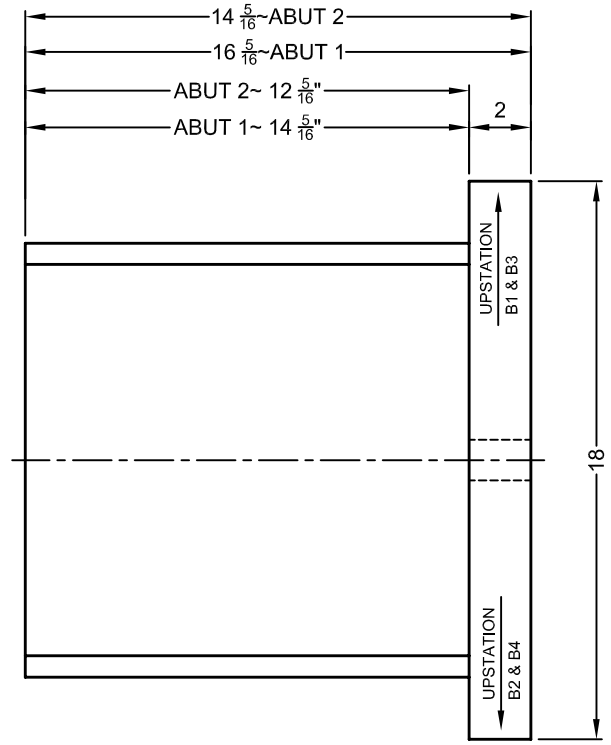
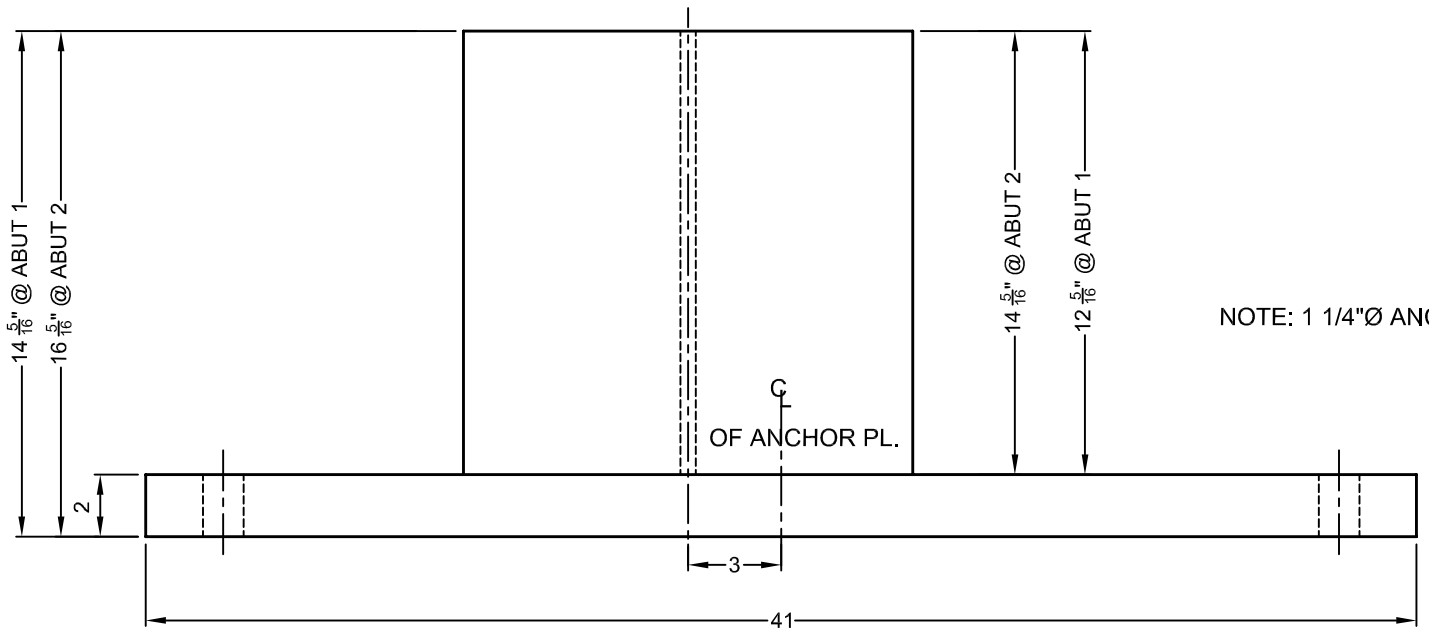



PLAN VIEW




SIDE VIEW




ELEVATION VIEW

QTY. REQ'D. = 4 ASSY. @ ABUT 1
QTY. REQ'D. = 4 ASSY. @ ABUT 2

NOTE: 1 1/4"Ø ANCHOR BOLTS BY OTHERS.

THIS DRAWING IS FOR SHOP FABRICATION ONLY
PLEASE REFER TO CONTRACT DRAWINGS FOR
FIELD INSTALLATION OF BEARINGS AND ANCHOR BOLTS.

| Inspection Block |
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| Initial Dim. Check<br>Sign:_____Date:_____ |
| In Process Dim. Chk.<br>Sign:_____Date:_____ |
| 100% Visual Weld Insp.<br>Sign:_____Date:_____ |
| Paint Insp.(see form)<br>Sign:_____Date:_____ |
| Final Inspection<br>Sign:_____Date:_____ |

SEE SHEET 1 OF 5 FOR NOTES

BEAST DESIGN SPECIMEN #1
93 ROAD 1
PISCATAWAY, NEW JERSEY 08854

FEDERAL PROJECT NO. :

CONTRACT NO. : | PIN NO. :

BOLSTER
ASSEMBLY DETAILS

**AMSCOT**
STRUCTURAL PRODUCTS CORP.

| SCALE: N.T.S. | APPRV'D: | DRAWN BY: E.J.G. |
|---|---|---|
| DATE: 1/21/19 | BF | REVISION: 0 |

FOR: RON-JON CONSTRUCTION

DWG NO: RJC19A3RO | | SHEET 3 OF 5

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | REVISED BY | DATE | APPROVED |
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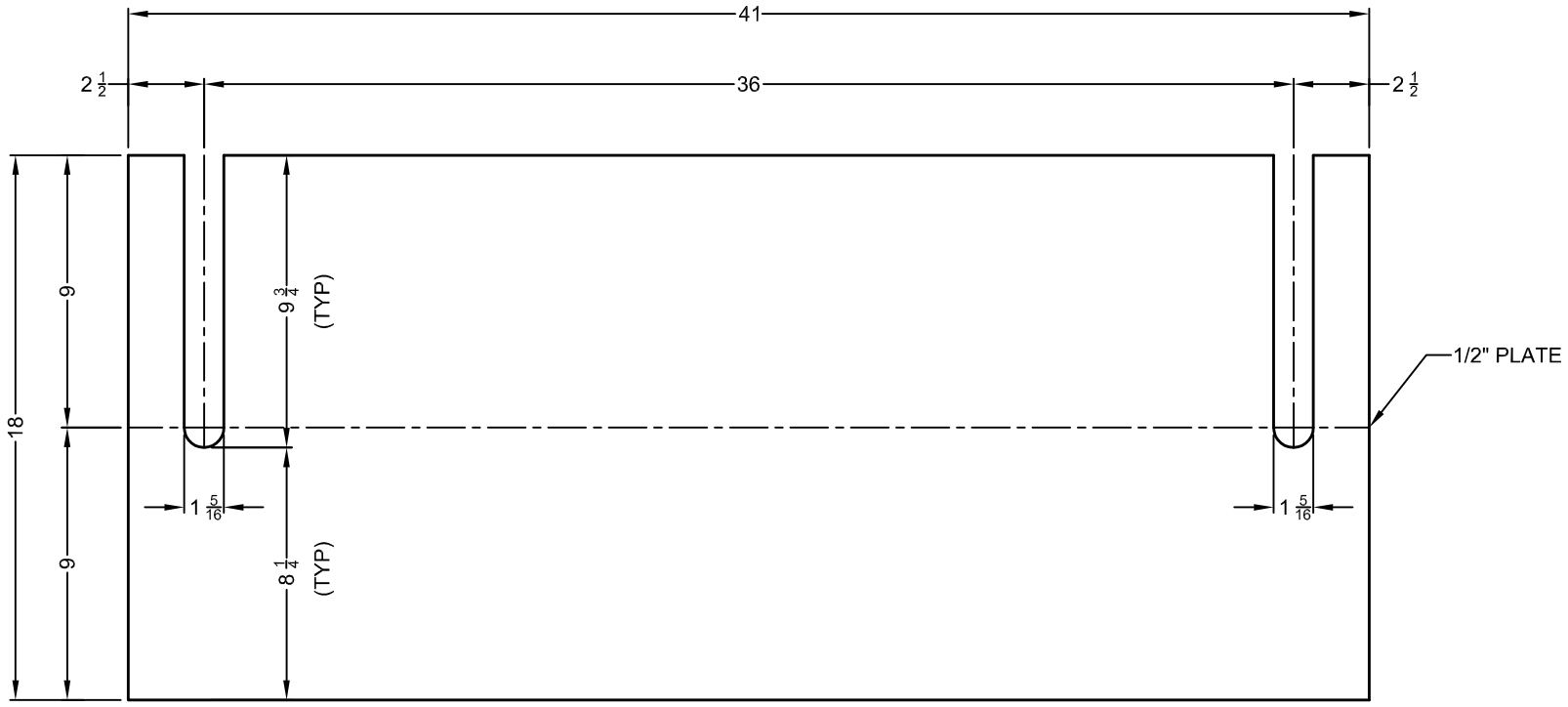


## SHIM PLATE
## PLAN VIEW

QTY. REQ'D. = 40

SEE SHEET 1 OF 5 FOR NOTES

THIS DRAWING IS FOR SHOP FABRICATION ONLY
PLEASE REFER TO CONTRACT DRAWINGS FOR
FIELD INSTALLATION OF BEARINGS AND ANCHOR BOLTS.

| Inspection Block |
|---|
| Initial Dim. Check<br>Sign:_____Date:_____ |
| In Process Dim. Chk.<br>Sign:_____Date:_____ |
| 100% Visual Weld Insp.<br>Sign:_____Date:_____ |
| Paint Insp.(see form)<br>Sign:_____Date:_____ |
| Final Inspection<br>Sign:_____Date:_____ |

BEAST DESIGN SPECIMEN #1
93 ROAD 1
PISCATAWAY, NEW JERSEY 08854

FEDERAL PROJECT NO. :

CONTRACT NO. : | PIN NO. :

SHIM PLATE
DETAILS

**AMSCOT**
STRUCTURAL PRODUCTS CORP.

| SCALE: N.T.S. | APPRV'D: | DRAWN BY: E.J.G. |
|---|---|---|
| DATE: 1/21/19 | BF | REVISION: 0 |

FOR: RON-JON CONSTRUCTION

| DWG NO: RJC19A4RO | | SHEET 4 OF 5 |
|---|---|---|

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | REVISED BY | DATE | APPROVED |
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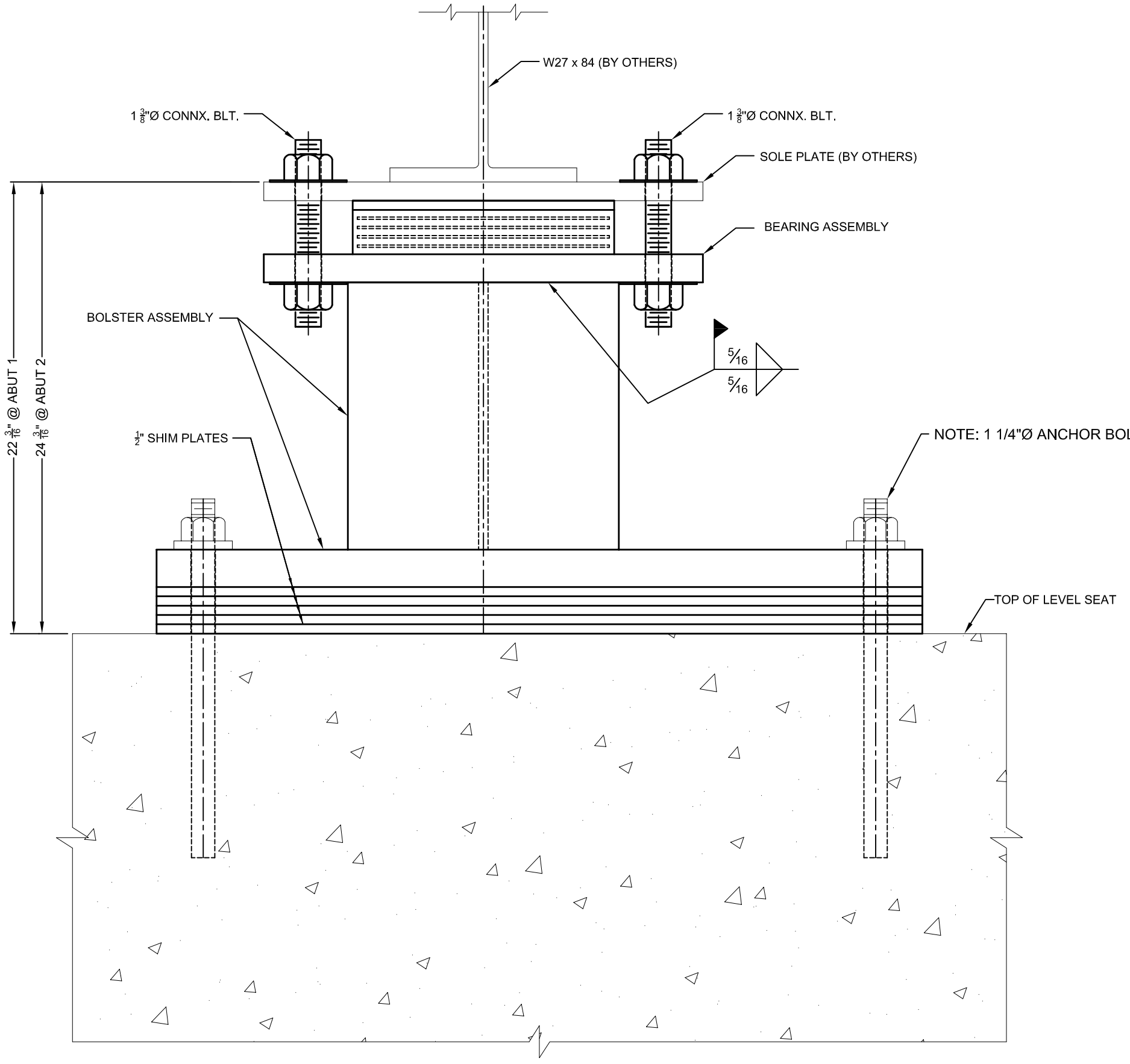


SEE SHEET 1 OF 5 FOR NOTES

| Inspection Block |
|---|
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| In Process Dim. Chk.<br>Sign:_____Date:_____ |
| 100% Visual Weld Insp.<br>Sign:_____Date:_____ |
| Paint Insp.(see form)<br>Sign:_____Date:_____ |
| Final Inspection<br>Sign:_____Date:_____ |

BEAST DESIGN SPECIMEN #1
93 ROAD 1
PISCATAWAY, NEW JERSEY 08854

FEDERAL PROJECT NO. :

CONTRACT NO. : | PIN NO. :

# FIELD ASSEMBLY DETAILS

**AMSCOT**
STRUCTURAL PRODUCTS CORP.

| SCALE: N.T.S. | APPRV'D: | DRAWN BY: E.J.G. |
|---|---|---|
| DATE: 1/21/19 | BF | REVISION: 0 |

FOR: RON-JON CONSTRUCTION

| DWG NO: RJC19A5RO | | SHEET 5 OF 5 |
|---|---|---|