

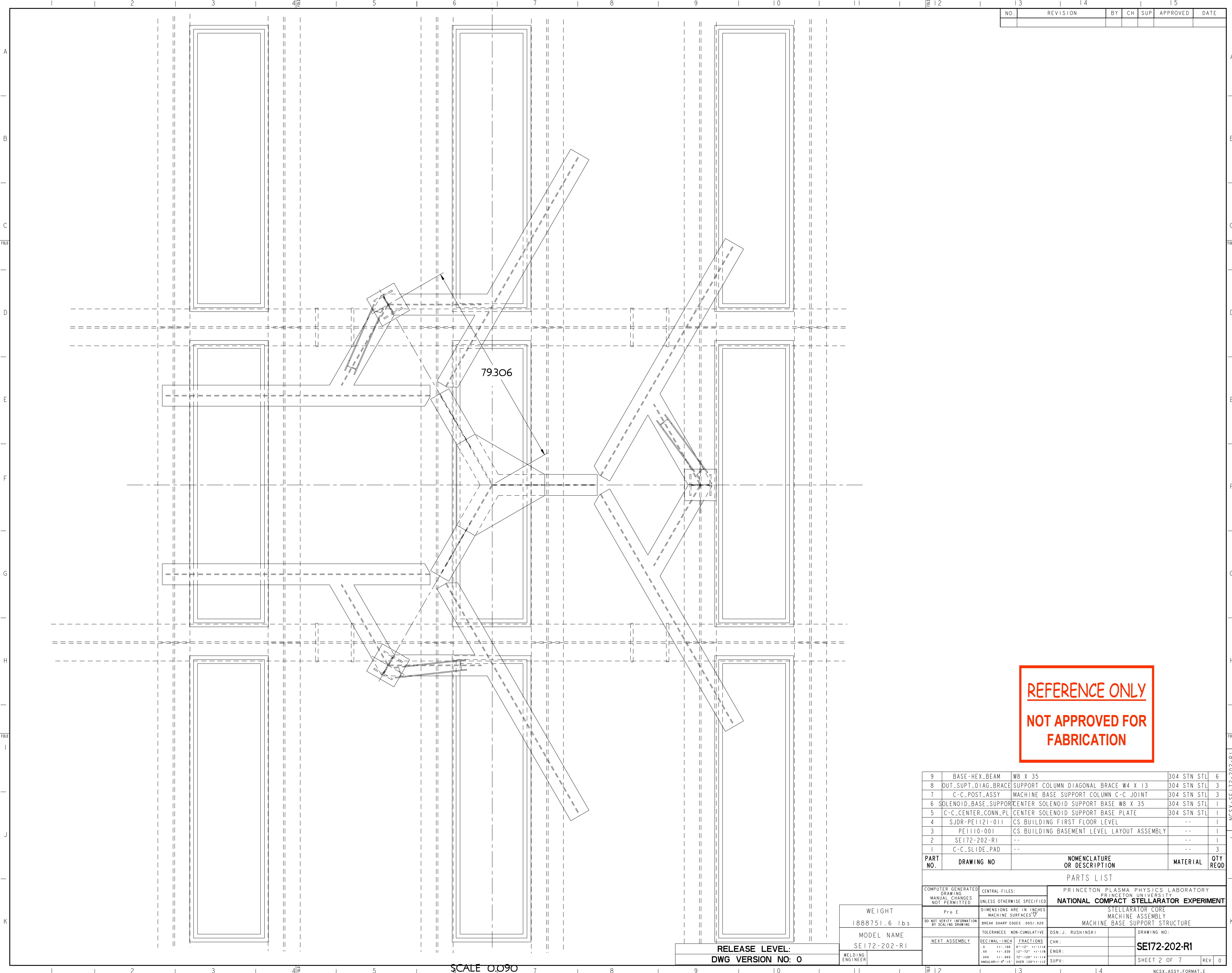
REFERENCE ONLY
NOT APPROVED FOR
FABRICATION

RELEASE LEVEL:
DWG VERSION NO: 0

| |
|---------------------|
| WEIGHT |
| 1888751.6 lbs |
| MODEL NAME |
| SE172-202-R1 |
| WELDING ENGINEER |

| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | QTY RECD |
|--|---|--|--------------|----------|
| PARTS LIST | | | | |
| COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED | CENTRAL FILES: | PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY | | |
| Pro E | UNLESS OTHERWISE SPECIFIED | NATIONAL COMPACT STELLARATOR EXPERIMENT | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | DIMENSIONS ARE IN INCHES MACHINE SURFACES BREAK SHARP EDGES .005/.020 | STELLARATOR CORE MACHINE ASSEMBLY MACHINE BASE SUPPORT STRUCTURE | | |
| TOLERANCES NON-CUMULATIVE | DECIMAL-INCH FRACTIONS | DSN: J. RUSHINSKI | DRAWING NO: | |
| NEXT ASSEMBLY | .XX +/- .005 .XXX +/- .005 ANGULAR +/- .05° | CHK: ENGR: SUPV: | SE172-202-R1 | |
| | | | SHEET 1 OF 7 | REV 0+ |

NCSX-SE172-202-R1



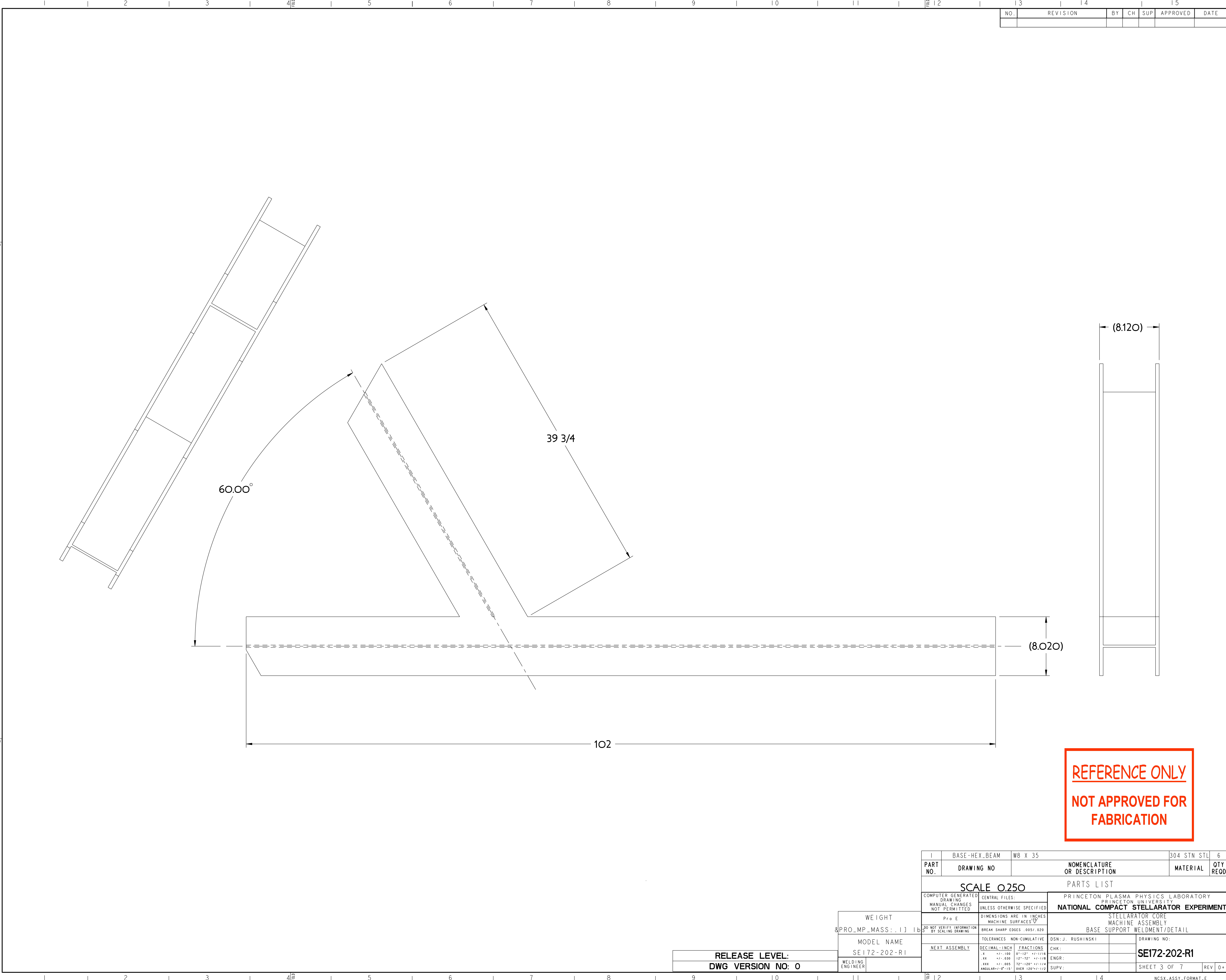
REFERENCE ONLY
NOT APPROVED FOR
FABRICATION

| | | | | |
|--|---------------------------------------|--|--------------|----------|
| 9 | BASE-HEX-BEAM | W8 X 35 | 304 STN STL | 6 |
| 8 | OUT_SUPT_DIAG-BRACE | SUPPORT COLUMN DIAGONAL BRACE W4 X 13 | 304 STN STL | 3 |
| 7 | C-C-POST-ASSY | MACHINE BASE SUPPORT COLUMN C-C JOINT | 304 STN STL | 3 |
| 6 | SOLENOID_BASE-SUPPORT | CENTER SOLENOID SUPPORT BASE W8 X 35 | 304 STN STL | 1 |
| 5 | C-C-CENTER-CONN-PL | CENTER SOLENOID SUPPORT BASE PLATE | 304 STN STL | 1 |
| 4 | SJDR-PE1121-011 | CS BUILDING FIRST FLOOR LEVEL | -- | 1 |
| 3 | PE1110-001 | CS BUILDING BASEMENT LEVEL LAYOUT ASSEMBLY | -- | 1 |
| 2 | SE172-202-R1 | -- | -- | 1 |
| 1 | C-C-SLIDE-PAD | -- | -- | 3 |
| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | QTY RECD |
| PARTS LIST | | | | |
| COMPUTER GENERATED DRAWING | CENTRAL FILES: | PRINCETON PLASMA PHYSICS LABORATORY | | |
| MANUAL CHANGES NOT PERMITTED | UNLESS OTHERWISE SPECIFIED | PRINCETON UNIVERSITY | | |
| Pro E | DIMENSIONS ARE IN INCHES | NATIONAL COMPACT STELLARATOR EXPERIMENT | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | MACHINE SURFACES | STELLARATOR CORE | | |
| | BREAK SHARP EDGES .005/.020 | MACHINE ASSEMBLY | | |
| | TOLERANCES NON-CUMULATIVE | DSN: J. RUSHINSKI | DRAWING NO: | |
| | DECIMAL-INCH FRACTIONS | CHK: | SE172-202-R1 | |
| | .XX +/- .100 0°-120° +/- 1/16 | ENGR: | SHEET 2 OF 7 | |
| | .XXX +/- .005 120°-120° +/- 1/16 | SUPV: | REV 0 | |
| | ANGULAR +/- 0°-15° OVER 120° +/- 1/16 | | | |

RELEASE LEVEL:
DWG VERSION NO: 0

| |
|------------------|
| WEIGHT |
| 1888751.6 lbs |
| MODEL NAME |
| SE172-202-R1 |
| WELDING ENGINEER |

SCALE 0.090



REFERENCE ONLY

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RELEASE LEVEL:

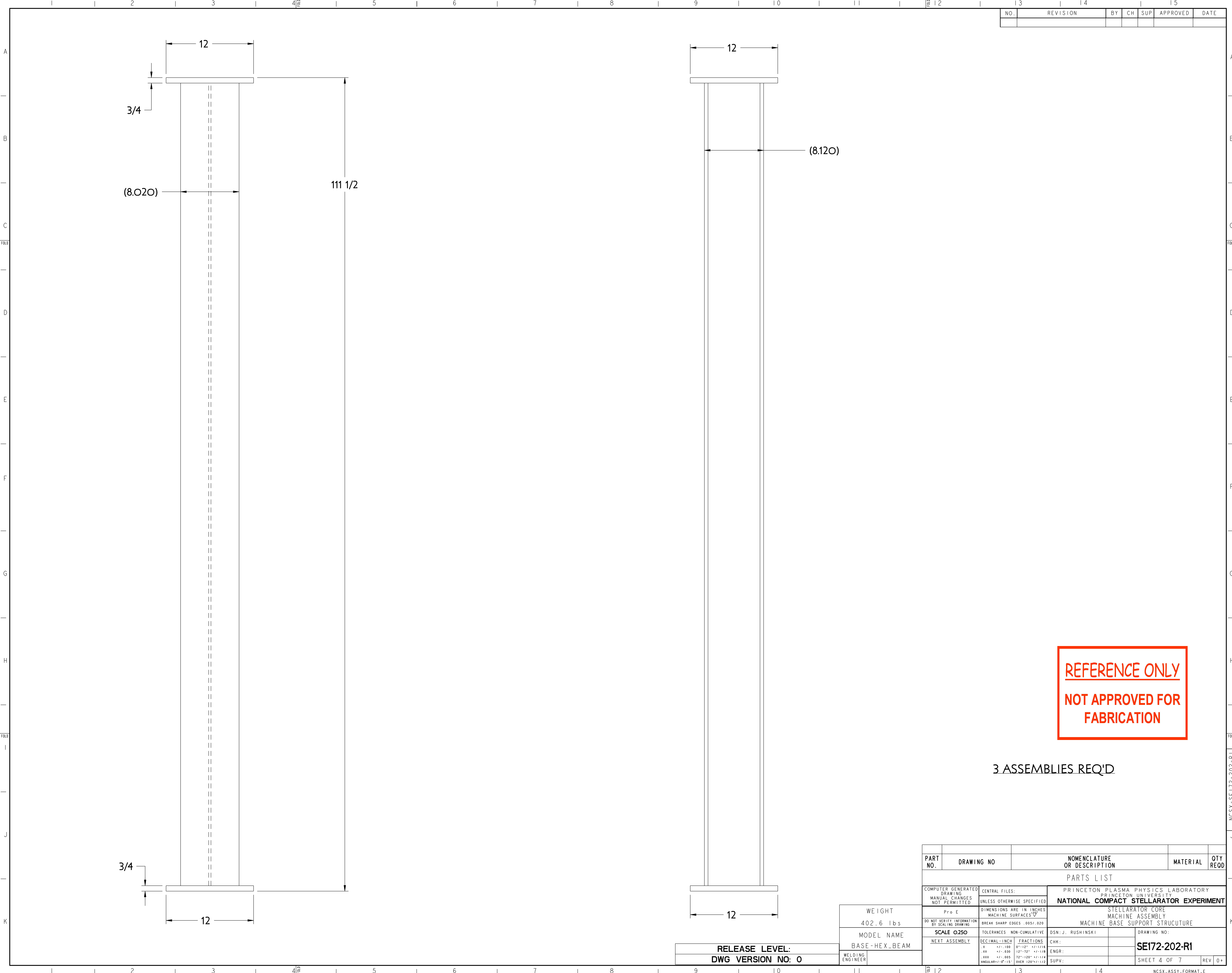
DWG VERSION NO: 0

WEIGHT

SEI72-202-R1

WELDING ENGINEER

| | | | | |
|--|---------------|-----------------------------|-------------|----------|
| 1 | BASE-HEX-BEAM | W8 X 35 | 304 STN STL | 6 |
| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | QTY RECD |
| SCALE 0.250 | | | | |
| PARTS LIST | | | | |
| COMPUTER GENERATED DRAWING | | | | |
| MANUAL CHANGES NOT PERMITTED | | | | |
| CENTRAL FILES: | | | | |
| UNLESS OTHERWISE SPECIFIED | | | | |
| DIMENSIONS ARE IN INCHES | | | | |
| MACHINE SURFACES | | | | |
| BREAK SHARP EDGES .005/ .020 | | | | |
| TOLERANCES NON-CUMULATIVE | | | | |
| DECIMAL - INCH FRACTIONS | | | | |
| .XX +/- .005 12" - 72" +/- .1/8 | | | | |
| .XXX +/- .005 72" - 120" +/- .1/4 | | | | |
| ANGULAR +/- .0° - 15° OVER 120" +/- .1/2 | | | | |
| DSN: J. RUSHINSKI | | | | |
| CHK: | | | | |
| ENGR: | | | | |
| SUPV: | | | | |
| DRAWING NO: | | | | |
| SEI72-202-R1 | | | | |
| SHEET 3 OF 7 | | | | |
| REV 0+ | | | | |



| 13 | | 14 | | 15 | |
|-----|----------|----|----|-----|----------|
| NO. | REVISION | BY | CH | SUP | APPROVED |
| | | | | | |

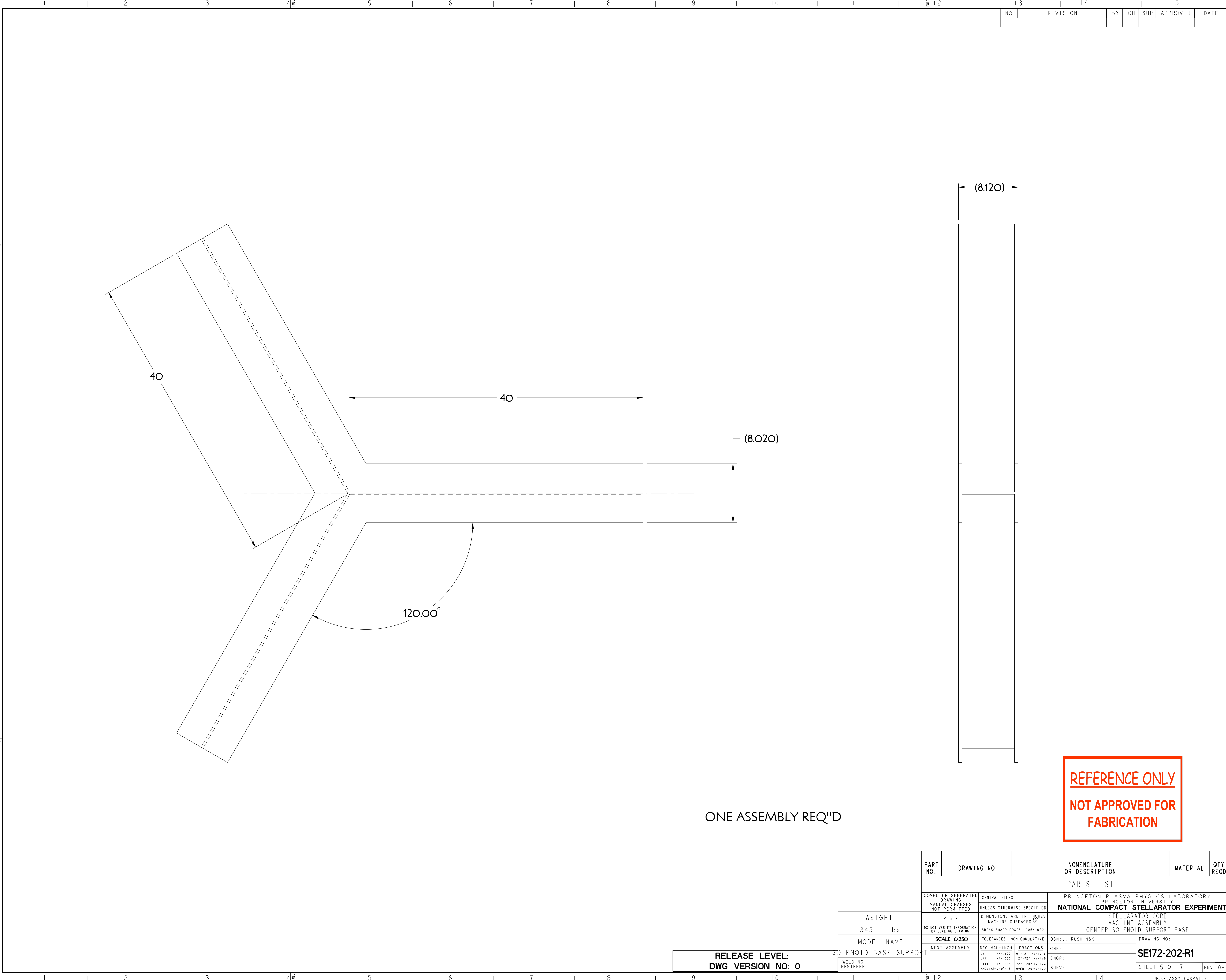
REFERENCE ONLY
NOT APPROVED FOR
FABRICATION

3 ASSEMBLIES REQ'D

| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | | MATERIAL | QTY RECD |
|--|---|--|--------------|----------|----------|
| PARTS LIST | | | | | |
| COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED | CENTRAL FILES: UNLESS OTHERWISE SPECIFIED | PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY NATIONAL COMPACT STELLARATOR EXPERIMENT | | | |
| Pro E | DIMENSIONS ARE IN INCHES MACHINE SURFACES UNLESS OTHERWISE SPECIFIED | STELLARATOR CORE MACHINE ASSEMBLY MACHINE BASE SUPPORT STRUCTURE | | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | BREAK SHARP EDGES .005/ .020 | | | | |
| SCALE 0.250 | TOLERANCES NON-CUMULATIVE | DSN: J. RUSHINSKI | DRAWING NO: | | |
| NEXT ASSEMBLY | DECIMAL - INCH FRACTIONS | CHK: | SE172-202-R1 | | |
| | .X +/- .005 0°-120° +/- 1/8 .XX +/- .030 12°-72° +/- 1/8 .XXX +/- .005 72°-120° +/- 1/4 ANGULAR +/- 0°-15° OVER 120° +/- 1/2 | ENGR: | | | |
| | | SUPV: | SHEET 4 OF 7 | | |
| | | | REV 0+ | | |

RELEASE LEVEL:
DWG VERSION NO: 0

WEIGHT
402.6 lbs
MODEL NAME
BASE-HEX-BEAM



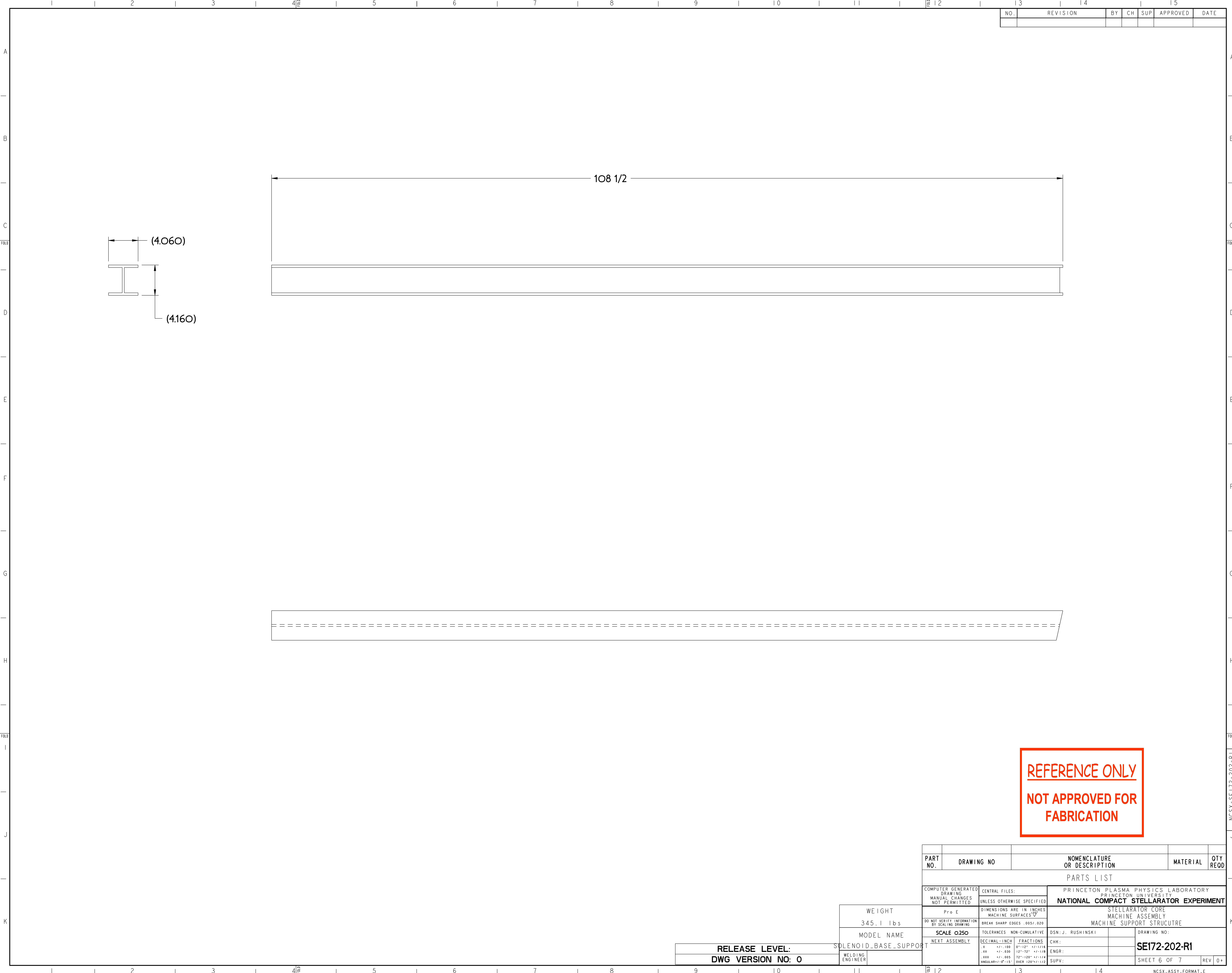
REFERENCE ONLY
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FABRICATION

RELEASE LEVEL: 0
DWG VERSION NO: 0

WEIGHT
345.1 lbs
MODEL NAME
SOLENOID_BASE_SUPPORT
WELDING
ENGINEER

| | | | | | |
|--|---|-----------------------------|---|----------|--------------|
| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | | MATERIAL | QTY REQD |
| PARTS LIST | | | | | |
| COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED | CENTRAL FILES: | | PRINCETON PLASMA PHYSICS LABORATORY | | |
| | UNLESS OTHERWISE SPECIFIED | | PRINCETON UNIVERSITY | | |
| | DIMENSIONS ARE IN INCHES MACHINE SURFACES UNLESS OTHERWISE SPECIFIED | | NATIONAL COMPACT STELLARATOR EXPERIMENT | | |
| | BREAK SHARP EDGES .005/.020 | | STELLARATOR CORE MACHINE ASSEMBLY | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | SCALE 0.250 | | CENTER SOLENOID SUPPORT BASE | | |
| T | TOLERANCES NON-CUMULATIVE | | DSN: J. RUSHINSKI | | DRAWING NO: |
| | NEXT ASSEMBLY | | CHK: | | SE172-202-R1 |
| | DECIMAL - INCH FRACTIONS | | ENGR: | | |
| | .X +/- .000 0°-120° +/- 1/8 | | SUPV: | | |
| | .XX +/- .030 12°-72° +/- 1/8 | | | | |
| | .XXX +/- .005 72°-120° +/- 1/4 | | | | |
| | ANGULAR +/- 0°-15° OVER 120° +/- 1/2 | | | | |
| | | | SHEET 5 OF 7 | | REV 0+ |

NCSX-SE172-202-R1



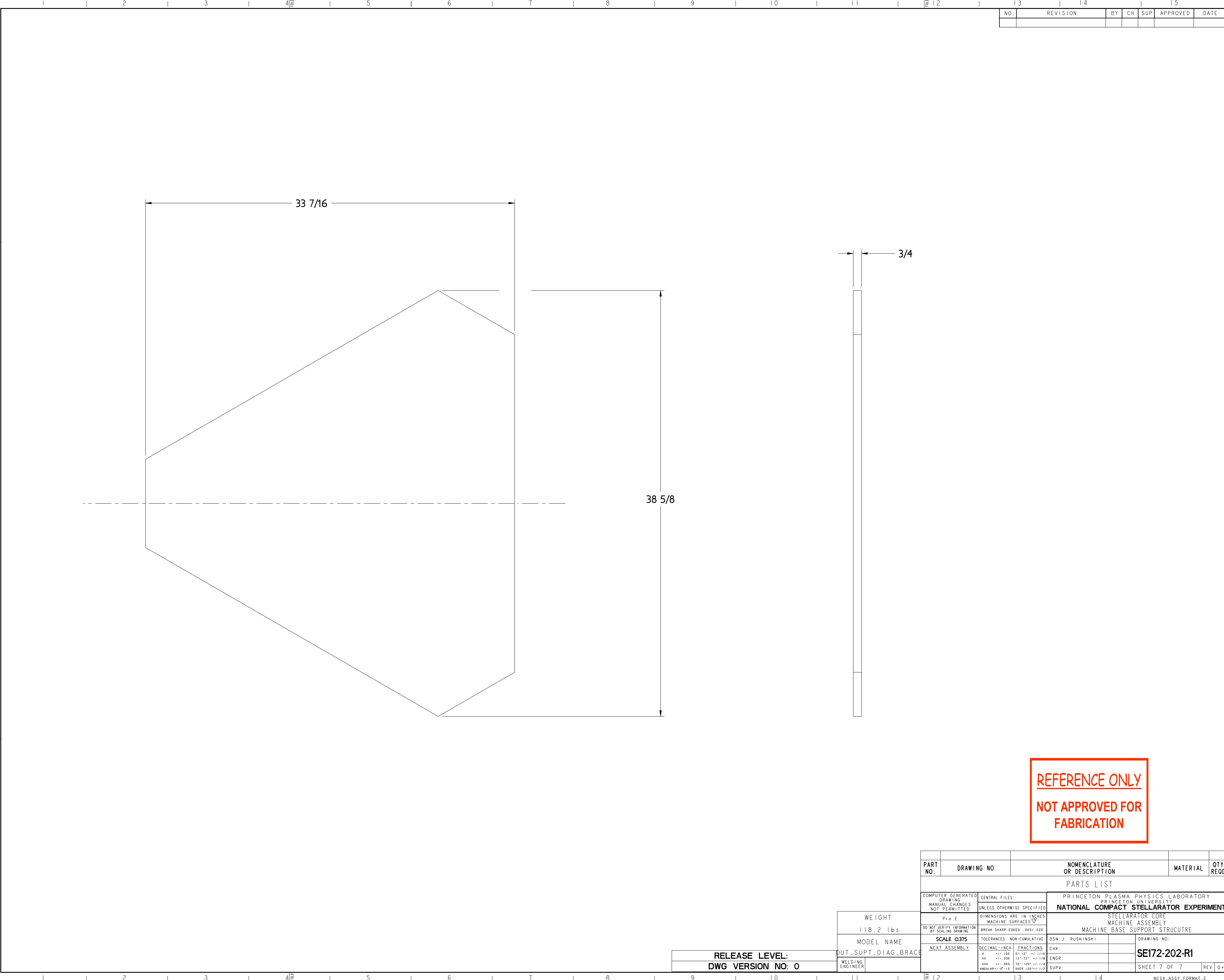
REFERENCE ONLY
NOT APPROVED FOR
FABRICATION

RELEASE LEVEL: 3
DWG VERSION NO: 0

WEIGHT
345.1 lbs
MODEL NAME
SOLENOID_BASE_SUPPORT
WELDING
ENGINEER

| | | | | | | | |
|--|------------------------------|---------------------------|---|-------------------|--------------|-------------|----------|
| PART NO. | DRAWING NO | | NOMENCLATURE OR DESCRIPTION | | | MATERIAL | QTY RECD |
| PARTS LIST | | | | | | | |
| COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED | CENTRAL FILES: | | PRINCETON PLASMA PHYSICS LABORATORY | | | | |
| | UNLESS OTHERWISE SPECIFIED | | PRINCETON UNIVERSITY | | | | |
| | DIMENSIONS ARE IN INCHES | | NATIONAL COMPACT STELLARATOR EXPERIMENT | | | | |
| | MACHINE SURFACES .005/ | | STELLARATOR CORE | | | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | BREAK SHARP EDGES .005/ .020 | | MACHINE ASSEMBLY | | | | |
| | | | MACHINE SUPPORT STRUCTURE | | | | |
| T | SCALE 0.250 | TOLERANCES NON-CUMULATIVE | | DSN: J. RUSHINSKI | | DRAWING NO: | |
| | NEXT ASSEMBLY | DECIMAL-INCH | FRACTIONS | CHK: | SEI72-202-R1 | | |
| | | .X +/- .000 | 10"=120" +/- 1/16 | ENGR: | | | |
| | | .XX +/- .030 | 12"=120" +/- 1/16 | CHK: | | | |
| | | .XXX +/- .005 | 72"=120" +/- 1/4 | SUPV: | | | |
| | | ANGULAR +/- 0°-15' | OVER 120" +/- 1/2 | | SHEET 6 OF 7 | | REV 0+ |

NCSX-SEI72-202-R1



| NO. | REVISION | BY | CH | SUP | APPROVED | DATE |
|-----|----------|----|----|-----|----------|------|
| | | | | | | |

| | | | | | |
|--|---|---|-------|--------------------------------|----------|
| PART NO. | DRAWING NO | NOMENCLATURE OR DESCRIPTION | | MATERIAL | QTY RECD |
| PARTS LIST | | | | | |
| COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED | CENTRAL FILES: | PRINCETON PLASMA PHYSICS LABORATORY | | | |
| | UNLESS OTHERWISE SPECIFIED | PRINCETON UNIVERSITY | | | |
| | Pro E | NATIONAL COMPACT STELLARATOR EXPERIMENT | | | |
| | DIMENSIONS ARE IN INCHES MACHINE SURFACES ¹²⁹ | STELLARATOR CORE | | | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | BREAK SHARP EDGES .005/.020 | MACHINE ASSEMBLY | | | |
| SCALE 0.375 | | TOLERANCES NON-CUMULATIVE | | MACHINE BASE SUPPORT STRUCTURE | |
| NEXT ASSEMBLY | DECIMAL-INCH | FRACTIONS | CHK: | DRAWING NO: | |
| | .X +/- .100 | 0"-12" +/- 1/16 | | SEI72-202-R1 | |
| | .XX +/- .030 | 12"-32" +/- 1/16 | ENGR: | | |
| | .XXX +/- .005 | 32"-120" +/- 1/16 | SUPV: | | |
| | ANGULAR +/- 0°-15° | OVER 120" +/- 1/2 | | SHEET 7 OF 7 | |
| | | | | REV 0+ | |

RELEASE LEVEL:
DWG VERSION NO: 0

WEIGHT
118.2 lbs

MODEL NAME
OUT_SUPT_DIAG_BRACE

WELDING ENGINEER

REFERENCE ONLY
NOT APPROVED FOR
FABRICATION

NCSX-SEI72-202-R1