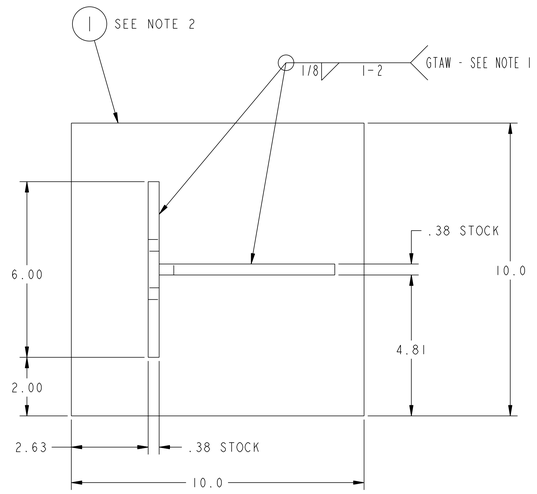
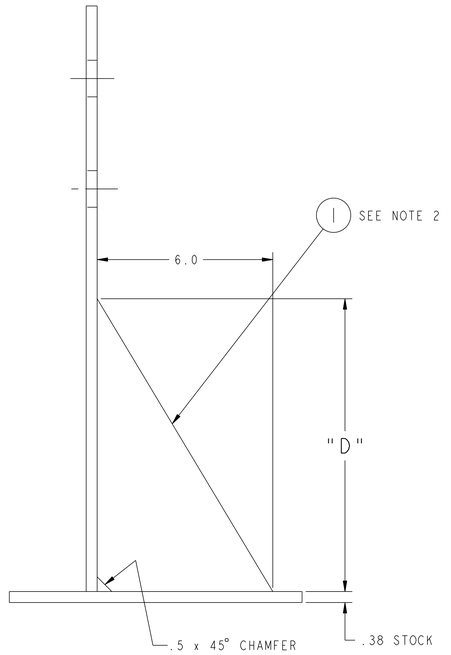
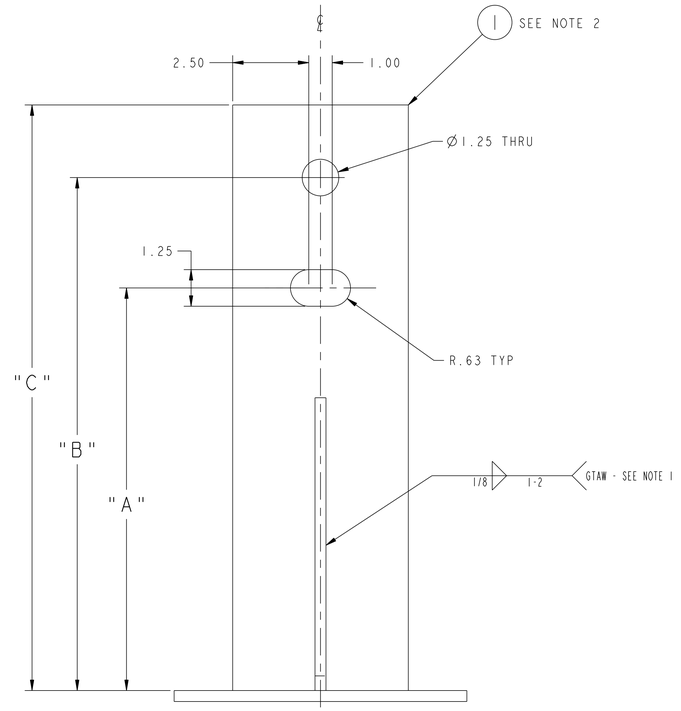
| NO. | REVISION | BY | CH | SUP | APPROVED | DATE |
|---|---|---|---|---|---|---|
| | | | | | | |




| TABLE 1 | | | | |
|---|---|---|---|---|
| ASSY NO. | DIM "A" | DIM "B" | DIM "C" | DIM "D" |
| -01 | 13.75 | 17.52 | 20.0 | 10.0 |
| -04 | 14.50 | 18.65 | 21.0 | 8.0 |




NOTES

1. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF PPPL PROCEDURE EM-002. VISUAL WELD INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ACCEPTANCE CRITERIA OF AWS D1.1 Section 6.
2. PARTS 1 TO BE FABRICATED USING 3/8" THICK STOCK, CUT TO SUIT.

**RELEASED FOR FABRICATION / INSTALLATION**

PPPL Drafting: Jerry Siegel 2004.12.14 11:45:30 -05'00'

-01 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "A"

-04 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "D"

| 06 ASSY | 05 ASSY | 04 ASSY | 03 ASSY | 02 ASSY | 01 ASSY | PART NO. | DRAWING NO. | NOMENCLATURE OR DESCRIPTION | MATERIAL | QTY REQD |
|---|---|---|---|---|---|---|---|---|---|---|
| A/R | A/R | A/R | A/R | A/R | A/R | 1 | THIS DWG | 3/8" THICK PLATE (CUT TO SUIT) | ASTM A36 | A/R |
| X | | | | | | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "F" | ——— | 2 |
| | X | | | | | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "E" | ——— | 2 |
| | | X | | | | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "D" | ——— | 4 |
| | | | X | | | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "C" | ——— | 4 |
| | | | | X | | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "B" | ——— | 4 |
| | | | | | X | — | THIS DWG | BRACKET SUPPORT STAND WELDMENT - TYPE "A" | ——— | 8 |

PARTS LIST

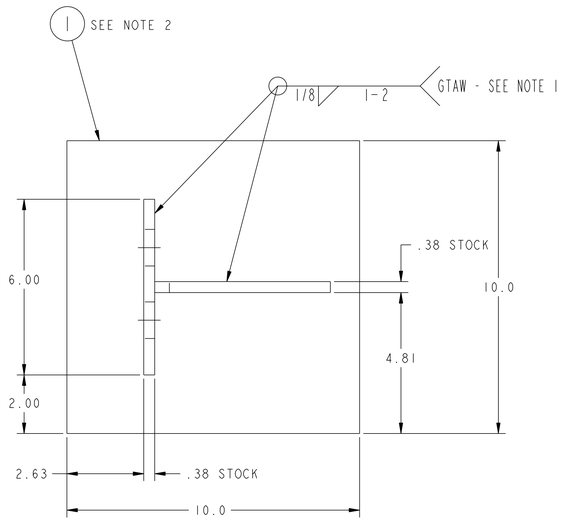
NCSX-SE144-031

| | | | |
|---|---|---|---|
| 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 125 | MODULAR COIL ASSEMBLY MODULAR COIL WINDING FORM TEST ASSEMBLY BRACKET SUPPORT STAND WELDMENTS | |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING | BREAK SHARP EDGES .005/.020 | | |
| | TOLERANCES NON-CUMULATIVE | DSN: L. MORRIS 10-19-04 | DRAWING NO: SE144-031 |
| NEXT ASSEMBLY | DECIMAL-INCH: .X +/-.100, .XX +/-.030, .XXX +/-.005, ANGULAR +/-0°-15' / FRACTIONS: 0°-12° +/-1/16, 12°-72° +/-1/8, 72°-120° +/-1/4, OVER 120° +/-1/2 | CHK: S. RAFTOPOULOS 10-19-04 | |
| | | ENGR: G. GETTELFINGER 10-19-04 | |
| | | SUPV: J. SIEGEL 10-19-04 | SHEET 1 OF 2 REV 0 |

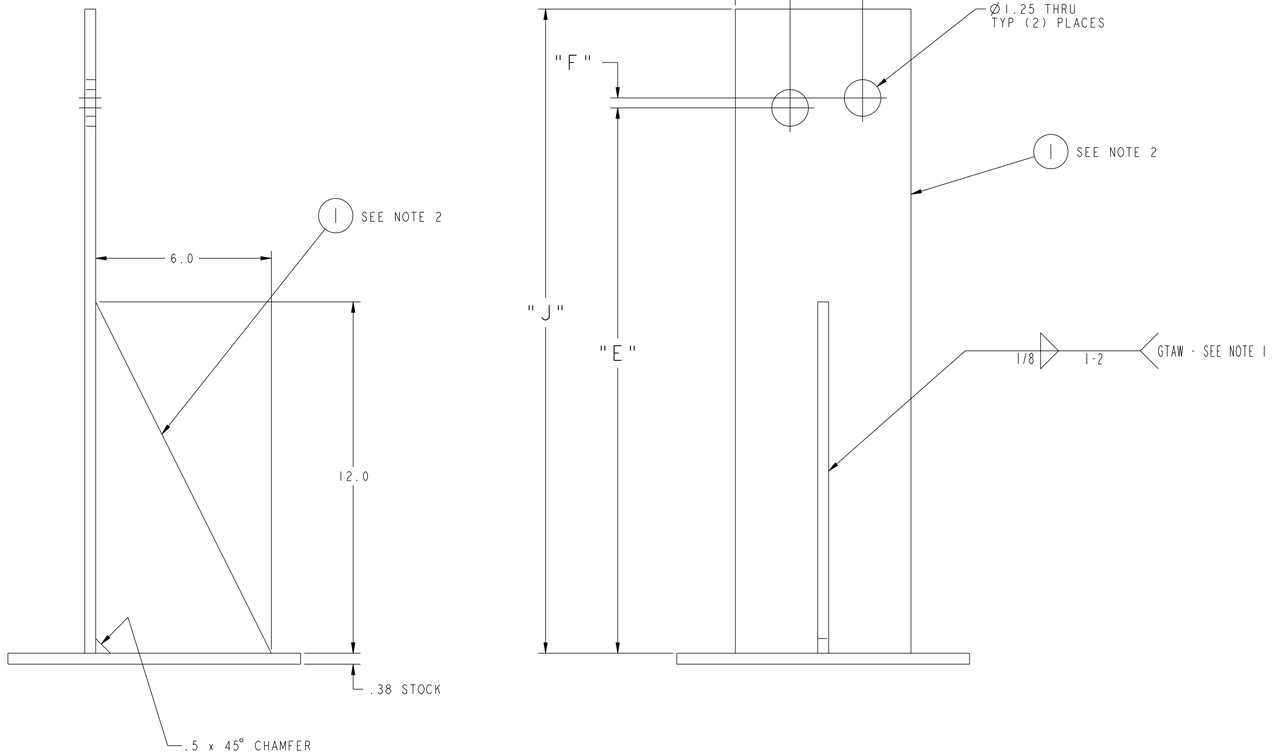
| WEIGHT | RELEASE LEVEL: |
|---|---|
| 26.2 lbs | DWG VERSION NO: |
| MODEL NAME SE144-031-01 | |
| WELDING ENGINEER R. PARSELLS 10-19-04 | |

NCSX_ASSY_FORMAT_E

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




| TABLE II | | | | | |
|---|---|---|---|---|---|
| ASSY NO. | DIM "E" | DIM "F" | DIM "G" | DIM "H" | DIM "J" |
| -02 | 18.63 | .34 | 1.87 | 2.48 | 22.0 |
| -03 | 18.63 | .34 | 1.87 | 2.48 | 22.0 |
| -05 | 19.00 | .29 | 1.5 | 2.98 | 21.5 |
| -06 | 19.00 | .29 | 1.5 | 2.98 | 21.5 |




-02 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "B" (AS SHOWN)

-03 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "C" (OPPOSITE)

-05 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "E" (AS SHOWN)

-06 ASSEMBLY BRACKET SUPPORT STAND WELDMENT - TYPE "F" (OPPOSITE)

**RELEASED FOR FABRICATION / INSTALLATION**

PPPL Drafting: ? Jerry Siegel 2004.12.14 11:45:30 -05'00'

FOR BILL OF MATERIAL AND NOTES SEE SHEET 1

RELEASE LEVEL: Fabrication
DWG VERSION NO: 1

WEIGHT 26.2 lbs

MODEL NAME SE144-031-01

WELDING ENGINEER R.PARSELLS 10-19-04

COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED

Pro E

DO NOT VERIFY INFORMATION BY SCALING DRAWING

NEXT ASSEMBLY

CENTRAL FILES:

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
MACHINE SURFACES

BREAK SHARP EDGES .005/.020

TOLERANCES NON-CUMULATIVE

| DECIMAL-INCH | FRACTIONS |
|---|---|
| .X +/-.100 | 0°-12° +/-1/16 |
| .XX +/-.030 | 12°-72° +/-1/8 |
| .XXX +/-.005 | 72°-120° +/-1/4 |
| ANGULAR +/-0°-15' | OVER 120° +/-1/2 |

PRINCETON PLASMA PHYSICS LABORATORY
PRINCETON UNIVERSITY
NATIONAL COMPACT STELLARATOR EXPERIMENT

MODULAR COIL ASSEMBLY
MODULAR COIL WINDING FORM TEST ASSEMBLY
BRACKET SUPPORT STAND WELDMENTS

| | | |
|---|---|---|
| DSN: L. MORRIS | 10-19-04 | DRAWING NO: |
| CHK: S. RAFTOPOULOS | 10-19-04 | SE144-031 |
| ENGR: G. GETTELFINGER | 10-19-04 | |
| SUPV: J. SIEGEL | 10-19-04 | SHEET 2 OF 2 REV. 0 |

NCSX_ASSY_FORMAT_E

NCSX-SE144-031