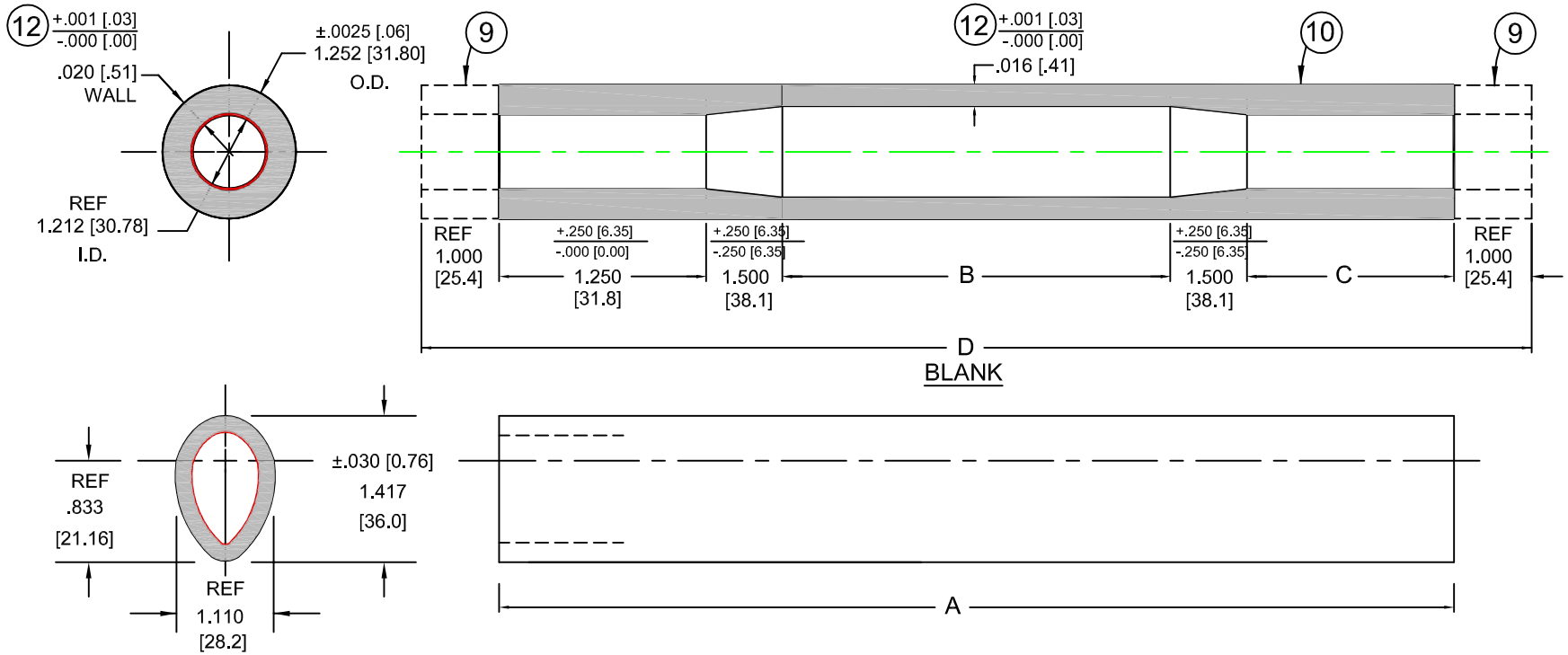
| FRAME SET | TRUE TEMPER PART NO. | A FIN. LENGTH TOL. ±.063 [1.6] | B CENTER LENGTH TOL. REF | C LONG BUTT SECTION TOL. +.25 [6.35] / -0 [0] | D DRAWN LENGTH TOL. ± .063 [1.6] | FINISHED WEIGHTS-g MEAN | TOP TOLERANCE | BOTTOM TOLERANCE |
|---|---|---|---|---|---|---|---|---|
| SHORT | HS3TTS | 20.87 [530.0] | 13.19 [335.0] | 3.43 [87.0] | 22.87 [580.8] | 178.91 | 191.57 | 177.55 |
| MEDIUM | HS3TTM | 22.44 [570.0] | 15.08 [383.0] | 3.11 [79.0] | 24.44 [620.8] | 190.88 | 204.34 | 189.50 |
| LONG | HS3TTL | 23.23 [590.0] | 15.87 [403.0] | 3.11 [79.0] | 25.23 [640.8] | 197.17 | 211.03 | 195.77 |
| VERSATILE | HS3TTV | 23.03 [585.0] | 14.65 [372.0] | 4.13 [105.0] | 25.03 [635.8] | 197.61 | 211.37 | 196.21 |




## NOTES

(12) TO ALLOW FOR POLISHING, DRAW TUBE WITH WALL THICKNESS AT TOP TOLERANCE: .021 / .017 / .021

11 PACKAGING: PBST30

(10) PAINT MARK

(9) DRAWN OVER-LENGTH AND CUT TO FINISHED LENGTH AFTER INSPECTING FOR PROFILE

8 USE SAME SHAPE DIE AS HVELDT2 (DWG# 505-90193-1)

7 HEAT TREAT: OUTSIDE SOURCE

6 SURFACE COATING: OIL

5 SURFACE FINISH: POLISHED

4 HARDNESS: Rc 32-37

3 TIR: .040

2 MATERIAL: OX PLATINUM (6330)

1 PART MADE TO TRUE TEMPER PROCEDURE AND TESTS STANDARDS.

| REV | CHANGE | BY | DATE |
|---|---|---|---|
| C | ECR 10019 REMOVE NOTE CONCERNING FINAL SHAPE BY USE OF PLATES. FINISHED DIMENSIONS ARE ACHIEVED WITH DIE. | AR | 5/25/10 |
| B | ADD MANUFACTURING NOTE | AR | 10/1/02 |
| A | INITIAL PRODUCTION RELEASE | AR | 7/20/02 |


TRUE TEMPER
8275 TOURNAMENT DRIVE
SUITE 200
MEMPHIS, TN 38125 (901) 746-2000


DRAWN BY: A. RANDOLPH
CORPORATE: G. HORWOOD
MFG. ENGINEERING: .
PRODUCTION CONTROL: .
QUALITY ASSURANCE: T. FARRELL
DATE: 7/20/02
SCALE: NONE
ECN NUMBER: 10019
SIZE/SHEET: A / 1

DESCRIPTION:
TRUE TEMPER
S3 BIKE FRAME
TEAR SHAPED TOP TUBE SETS

PART FAMILY:
S3 TOP TUBE SETS

WORK ORDER NUMBER: RFQ 634C
DRAWING NUMBER: AST-21-02

TOLERANCES (EXCEPT AS NOTED)
DECIMAL
.X +/- 0.125
.XX +/- 0.063
.XXX +/- 0.002
STEP LOCATION (FROM TIP)
+/- 0.063 (NON ACCUMULATIVE)

REVISION: C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