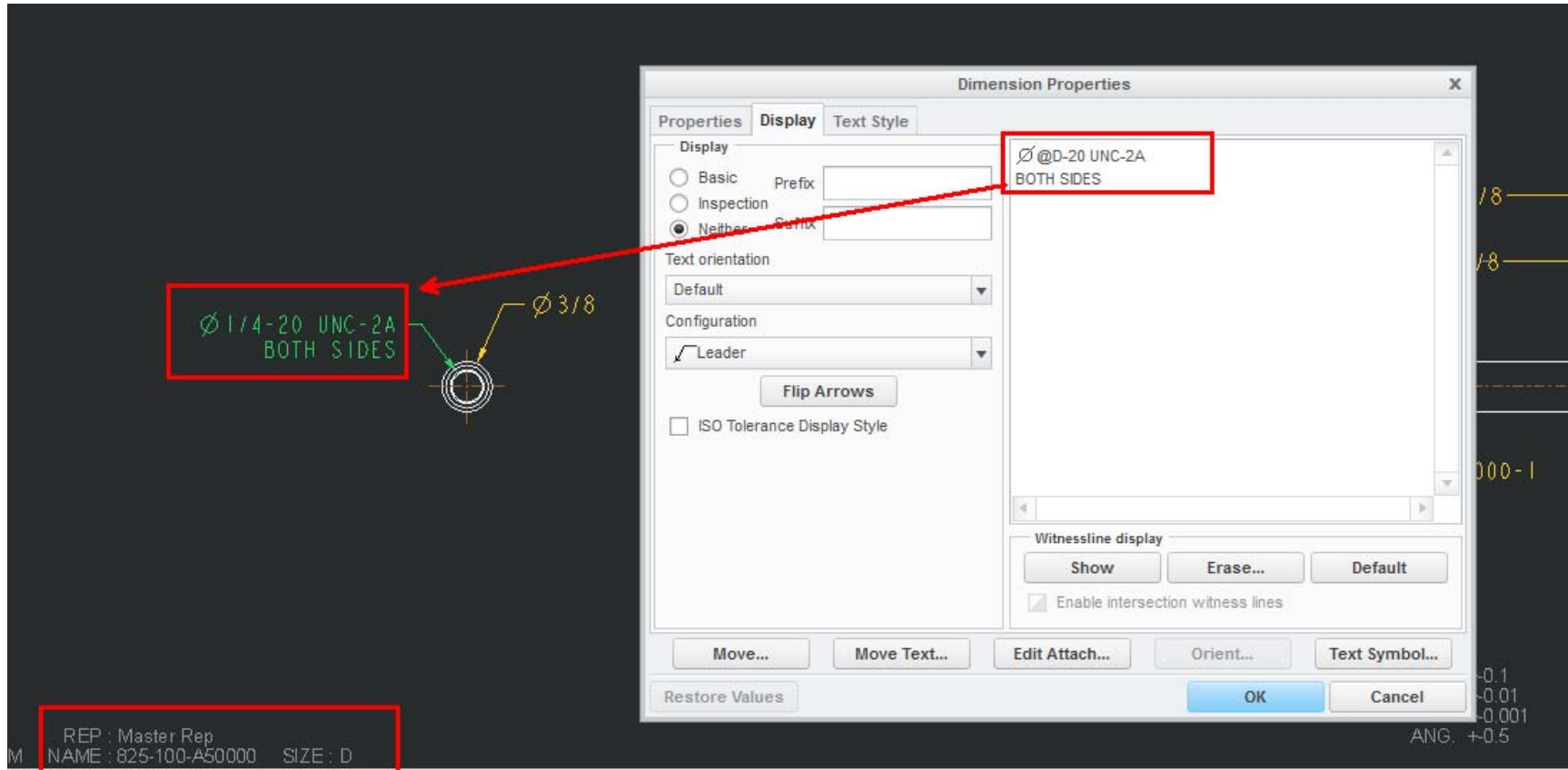# Investigating Creo thread specification capabilities
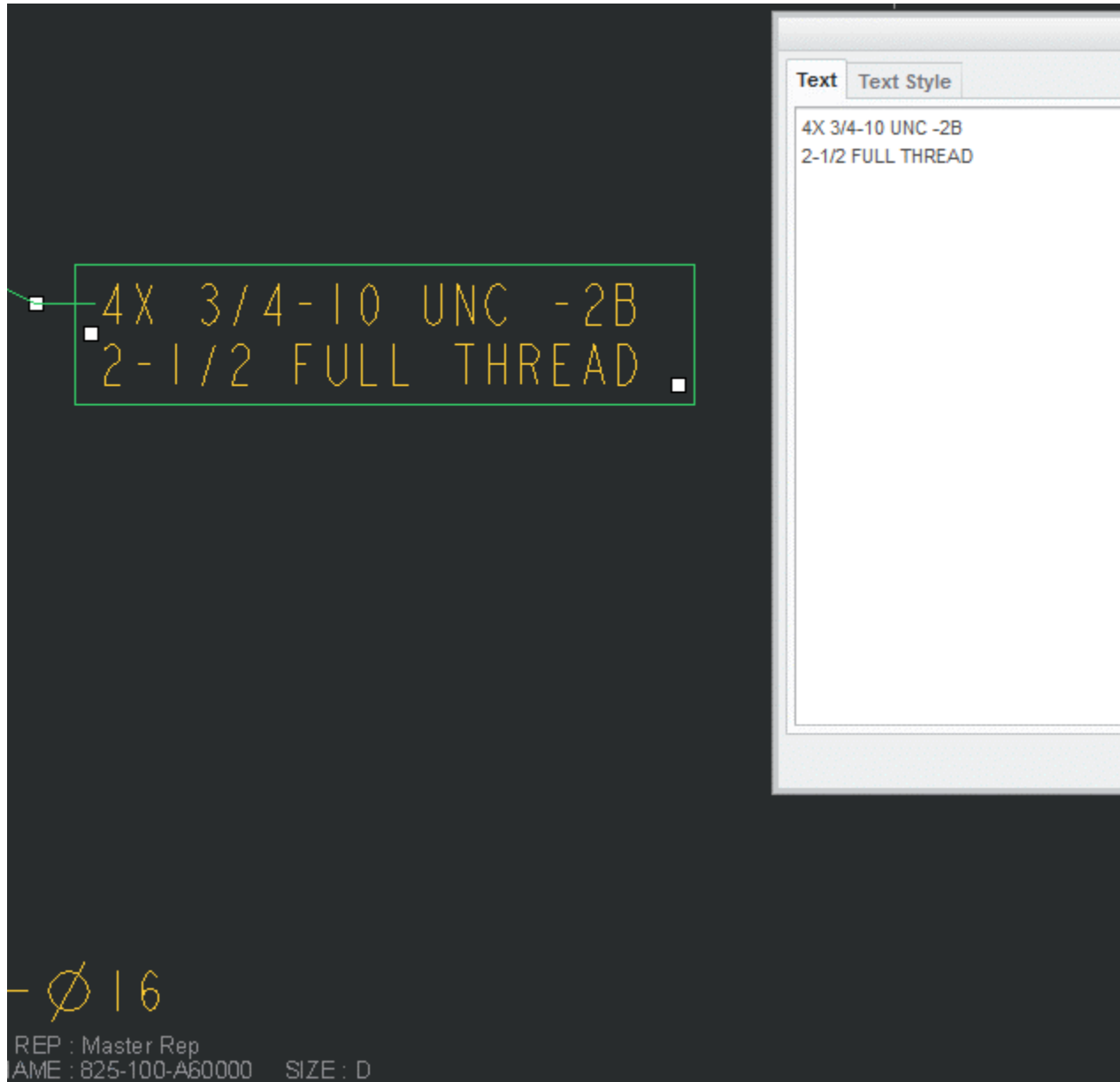
Trying to show fractional major diameter on threads.

Creo does this automatically for UNC/ UNF *internal* threads, but not external it seems:
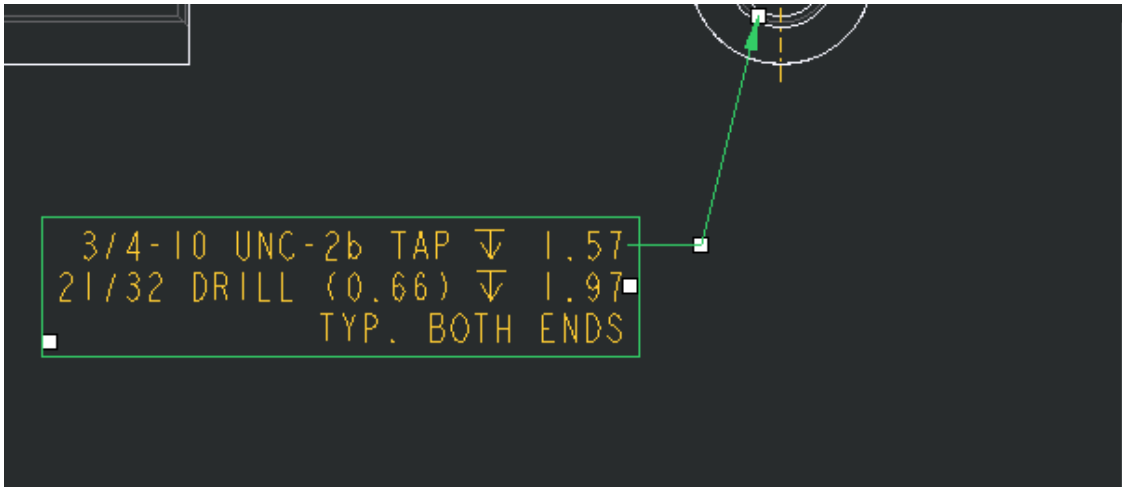
1   Example 1

2   Example 2

4X 3/4-10 UNC -2B
2-1/2 FULL THREAD

Text | Text Style

4X 3/4-10 UNC -2B
2-1/2 FULL THREAD

Ø 16

REP : Master Rep
AME : 825-100-A60000   SIZE : D

3   Example 3, and tests

3/4-10 UNC-2b TAP ⤓ 1.57
21/32 DRILL (0.66) ⤓ 1.97
TYP. BOTH ENDS

Note Properties

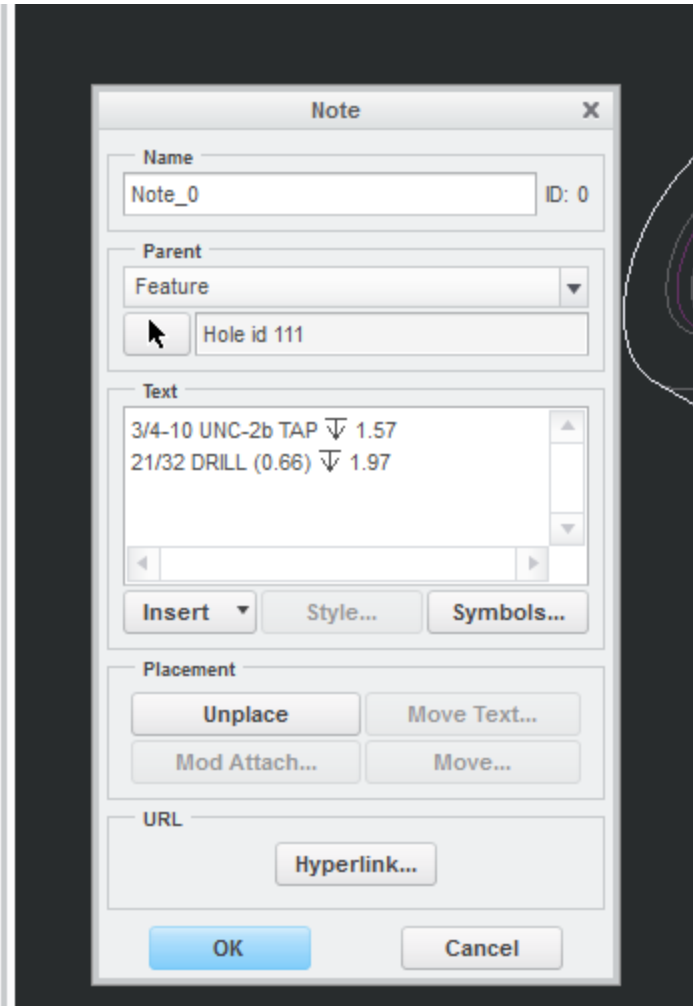**Text** | Text Style

{0:&Note_0:FID_111}TYP. BOTH ENDS

Open...
Save...
Editor...
Text Symbol...
Report Symbol...
Hyperlink...

▱ RIGHT	1	1
▱ TOP	2	3
▱ FRONT	3	5
✳ PRT_CSYS_DEF	4	7
▶ 🗗 Protrusion id 39	5	39
▼ ⬚ Hole id 111	6	111
A≡ Note_0		<None>
▼ ⬚ Hole id 201	7	201
A≡ Note_1		<None>
▶ ⊶ Cut id 556	8	556
➡ Insert Here		

Note ✕

Name

Note_0   ID: 0

Parent

Feature ▼

▸   Hole id 111

Text

3/4-10 UNC-2b TAP ⛛ 1.57
21/32 DRILL (0.66) ⛛ 1.97

Insert ▼   Style...   Symbols...

Placement

Unplace   Move Text...

Mod Attach...   Move...

URL

Hyperlink...

OK   Cancel

And when creating this hole from new, Creo automatically adds the fractional internal thread note:
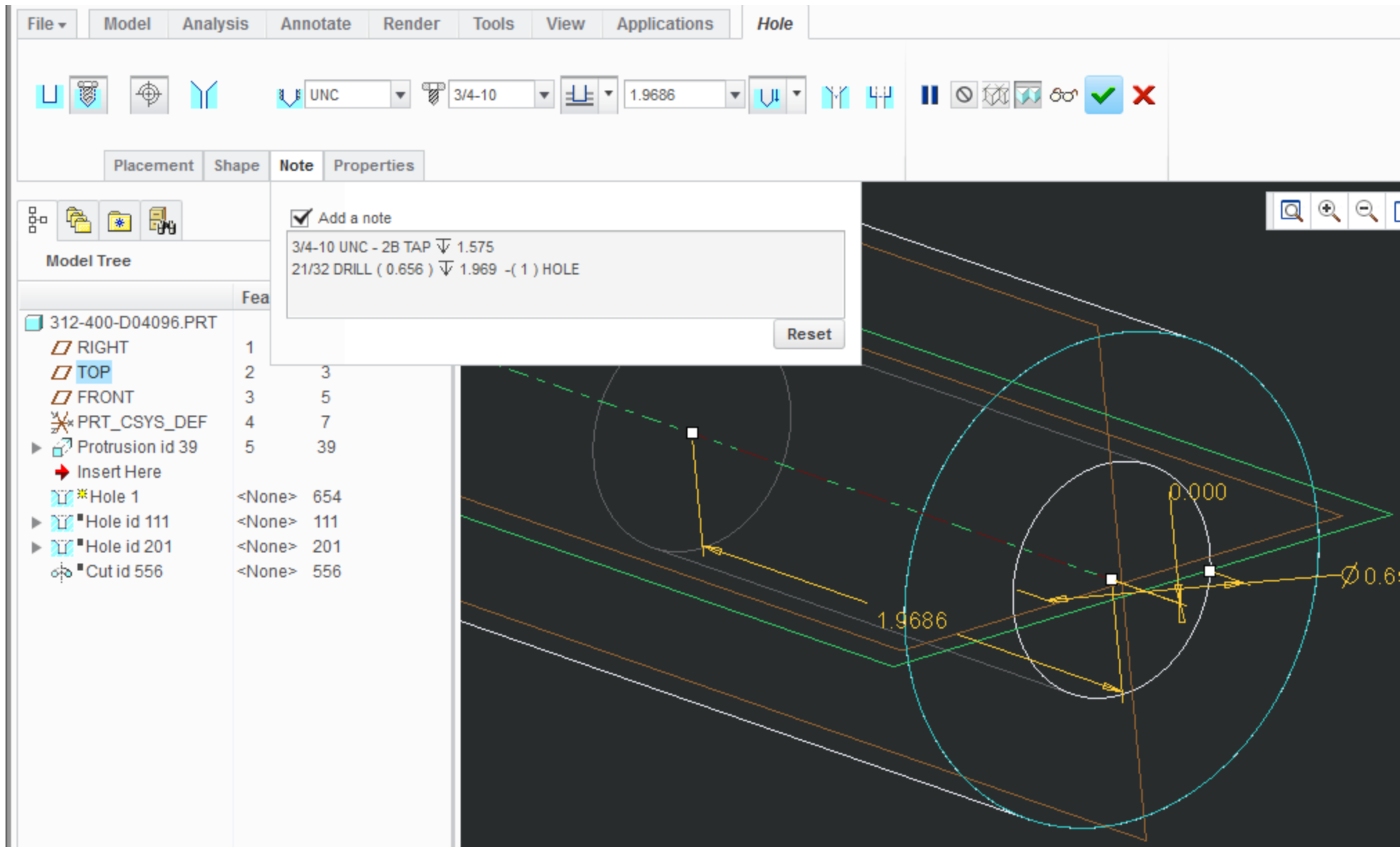
But if we create an external thread:

U 🔩 U   UNC ▾   🔩 7/16-14 ▾   ⋏ 1 Surface   ⊥ ▾ 2.000 ▾   ⁒   ‖ ⊘ 🗗 🗗 👓 ✔ ✘

Placement   Depth   **Properties**

Name COSMETIC_THREAD_1   ℹ

Parameters

Name	Value
MAJOR_DIAMETER	0.438
THREADS_PER_INCH	14.000
FORM	UNC
CLASS	2A
PLACEMENT	EXTERNAL
METRIC	NO
MINOR_DIAMETER	1.235

Open...
Save...

⊞ 📦 📁 📇

Model Tree

	Fea
📦 312-400-D04096.PRT	
▱ RIGHT	1
▱ TOP	2
▱ FRONT	3
✳ PRT_CSYS_DEF	4
▸ ⬡ Protrusion id 39	5
▸ 🕳 Hole id 111	6
▸ 🕳 Hole id 201	7
▸ ⚙ Cut id 556	8
➡ Insert Here	
⊞✳ Cosmetic Thread 1<None>	654

🔍 ⊕ ⊖

PRT_CSYS_DEF

2.000