```
eq_atom_eq_true_elim_sqequal  THM

⊢  ∀x,y:Atom. (x=₂y∈Atom ∼ true₂) ⇒ x = y
| by RepeatFor 2 (Analyze 0)
|
1. x : Atom
2. y : Atom
⊢  (x=₂y∈Atom ∼ true₂) ⇒ x = y  by Analyze 0
|
|\
| 3. x=₂y∈Atom ∼ true₂
| ⊢  x = y
| | by λp.
| |    let x,y ≡ dest_sqequal (h -1 p) in
| |    (Assert (mk_equal_term bool_term y y)
| |     THENL
| |     [Auto;SqSubstAtAddr [2] x -1 THENL [Trivial;Id]])
| |    p
| |
| 4. x=₂y∈Atom = true₂
| ⊢  x = y  by RW bool_to_propC -1
|
.\
. .....wf .....
. ⊢  (x=₂y∈Atom ∼ true₂) ∈ Type  by Analyze
. |
. |\
. | ⊢  x=₂y∈Atom ∼ x=₂y∈Atom  by Trivial
. |
. .\
. . ⊢  true₂ ∼ true₂  by Trivial
END
```