Inference at $*$
of proof for Lemma all_functionality_wrt_implies:

$\vdash \forall S, T$:Type, P, Q:$(S \rightarrow \mathbb{P})$.
$(S = T) \Rightarrow (\forall z{:}S.\ \{P(z) \Rightarrow Q(z)\}) \Rightarrow \{(\forall x{:}S.\ P(x)) \Rightarrow (\forall y{:}T.\ Q(y))\}$
by ((((Unfold ‘guard‘ 0)
CollapseTHEN (UnivCD))·)
CollapseTHENA (
(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

1. S : Type
2. T : Type
3. P : $S \rightarrow \mathbb{P}$
4. Q : $S \rightarrow \mathbb{P}$
5. $S = T$
6. $\forall z{:}S.\ P(z) \Rightarrow Q(z)$
7. $\forall x{:}S.\ P(x)$
8. y : T

$\vdash Q(y)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_99005_{all_functionality_wrt_implies}.html