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Standard Drawing Report

Date: July 8, 2025

Technical Owner: Civil – Aszita Mansor, P.E.

Standard Drawing No. P-553 **Calculation Book No.** n/a

Drawing Title: Street Tree Installation In Existing Sidewalk with Narrow Furnishing Zone (Local Service Street Only)

X

REGISTERED PROFESSIONAL ENGINEER
91467PE
Digitally Signed
OREGON
SEPTEMBER 13, 2016
ASZITA MANSOR
Expires 12/31/26

Background Information, Including Reference Material:

This is a new standard drawing created to provide the graphic and information on how to modify the concrete sidewalk while maintaining ADA accessibility and allow for street tree installation when the existing sidewalk corridor has narrow planting strip/ furnishing zone.

P-551 Sidewalks and P-581 Typical Street Tree Installation standard drawings are referenced in the new P-553 standard drawing.

Assumption Made:

No major assumptions are made.

Design Narrative:

There are sidewalks within the city of Portland with an existing planting strip/ furnishing zone that is narrower than the City's 3' minimum for tree planting (established by Portland City Code Title 11). The 3' minimum allows trees to thrive and helps prevent tree root damage to the sidewalk pavement. Neighborhoods where a narrow furnishing zone is common lack the opportunity to plant new street trees.

Report prepared by:
Aszita Mansor, P.E.
Engineering Supervisor
PBOT Civil Engineering & Drafting Division

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The typical width for planting strip/ furnishing zone shown on P-551 standard drawing is 4’ (not including the 6” standard curb) with 6’ typical width for sidewalk pedestrian through zone. The typical tree well size based on P-581 standard drawing is 4’ x 9’.

New standard drawing, P-553, describes a modification to the typical width sidewalk pedestrian through zone when the existing planting strip/ furnishing zone is 2.5’ (not including 6” standard curb) to allow for street tree installation in the narrow planting/ furnishing zone. This modification is only allowed on streets with a local service traffic classification in the Transportation System Plan.

Modification to the sidewalk is from the 6’ typical pedestrian through zone width to 5’ minimum width to accommodate and maintain ADA accessibility, using 3:1 taper rate while providing an additional 1’ maximum width to the existing narrow planting strip/ furnishing zone. The tree well size as a result of this modification under P-553 will be 3’ min. x (9’ – 12’). Root barrier installation is required per P-581 and selection of tree species will be based on Urban Forestry Approved Street Tree Planting Lists.

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