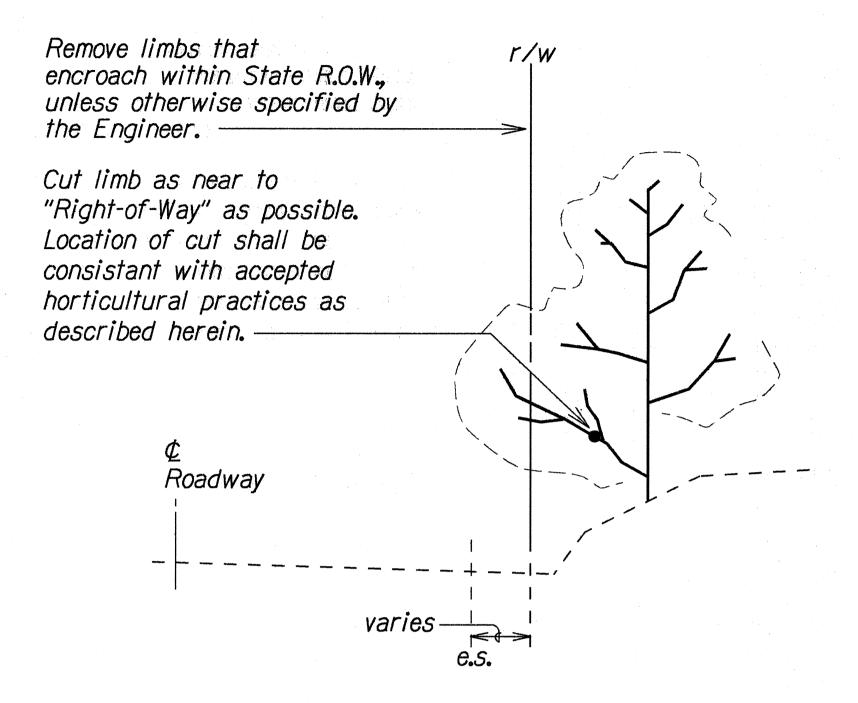
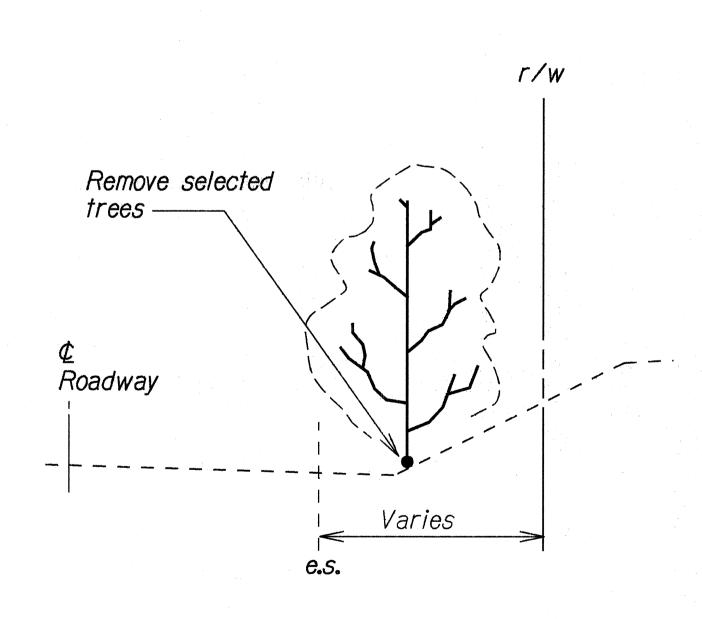
Notes:

- 1. Contractor's attention is directed to Landowner Notification requirements in Section 689 of the Special Provisions for trimming of branches of trees outside of the State Highway right-of-way.
- 2. All diseased and/or dead branches that are on the trees trimmed in this project shall be cut off at the live portion of the tree. The Engineer may identify branches to remain that would otherwise be removed when applying the trimming details on this sheet.
- 3. All trimming of Trees \$ Shrubs shall follow Standard Practices as per the Committee of the National Arborists Association, Inc. Requirements for Class II Pruning are described in notes 4 to 12.
- 4. All cuts shall be made as close as possible to the trunk or parent limb, without cutting into the branch collar or leaving a protruding stub (see detail 'A'). Bark at the edge of all pruning cuts should remain firmly attached.
- 5. All branches too large to suppport with one hand shall be precut to avoid splitting or tearing of the bark (see detail 'B'). Where necessary, ropes, or other equipment should be used to lower large branches or stubs to the ground.
- 6. Treatment of cuts and wounds with wound dressing or paints has not been shown to be effective in preventing or reducing decay, and is not generally recommended for that reason. Wound dressing over infected wood may stimulate the decay process. If wounds are painted for cosmetic or other reasons, then materials non-toxic to the cambium layer of meristematic tissue must be used. Care must be taken to apply a thin coating of the material only to the exposed wood.
- 7. Old injuries are to be inspected. Those not closing properly and where the callus is not already completely established should be bark traced if the bark appears loose or damaged. Such tracing shall not penetrate the xylem (sapwood), and margins shall be kept rounded.
- 8. Equipment that will damage the bark and cambium layer should not be used on or in the tree. For example, the use of climbing spurs (hooks, irons) is not acceptable work practice for pruning operations on live trees. Sharp tools shall be used so that clean cuts will be made at all times.
- 9. All cut limbs shall be removed from the crown upon completion of the pruning.
- 10. Trees susceptible to serious infectious diseases should not be pruned at the time of the year during which the pathogens causing the diseases or the insect vectors are most active. Similarly, if pruning wounds may attract harmful insects, pruning should be timed so as to avoid insect infestation.
- 11. All visible girdling roots are to be reported to a supervisor and/or the Engineer.
- 12. The presence of any disease condition, fungus fruit bodies, decayed trunk or branches, split crotches or branches, cracks or other structural weakness should be reported in writing to the Engineer and/or the owner and corrective measures recommended.
- 13. Refer to Specification 689 for additional details & directions.

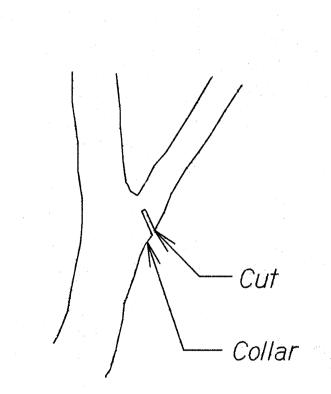
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
HAWAII	HAW.	19J-02-97M	1997	22	22	



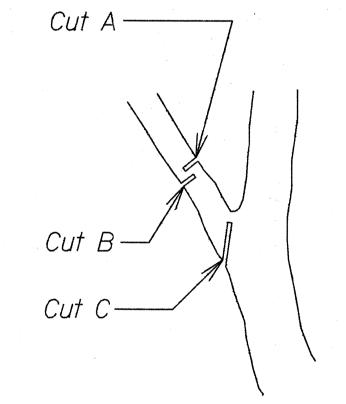
TRIMMING LATERAL BRANCHES OF TREES
OUTSIDE THE STATE HIGHWAYS RIGHT-OF-WAY
Scale: n.a.



REMOVAL OF TREES WITHIN STATE R/W
Scale: n.a.



DETAIL 'A'



DETAIL 'B'

CLASS II PRUNING STANDARD DETAILS

Scale: n.a.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION AND

TREE TRIMMING AND REMOVAL DETAILS

HAWAI'I BELT ROAD RESURFACING
PEPE'EKEO TO KOLEKOLE
PROJECT NO. 19J-02-97M

Scale: As Shown

Date: Dec., 1996

SHEET No. 2 OF 2 SHEETS

