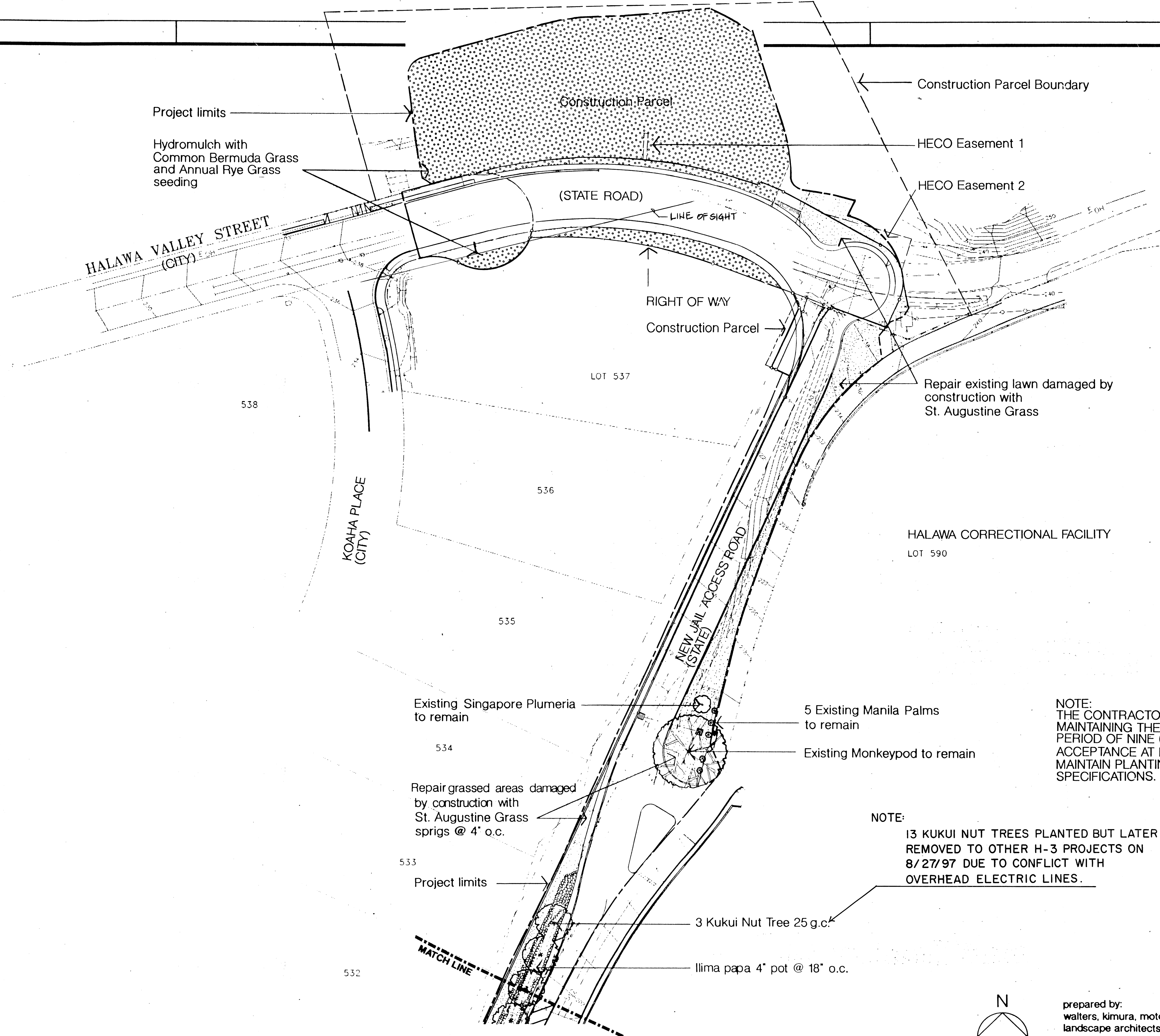


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(73)	1996	27	42



NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR
MAINTAINING THE PLANTING AREAS FOR A
PERIOD OF NINE (9) MONTHS AFTER
ACCEPTANCE AT END OF PLANTING PERIOD.
MAINTAIN PLANTING AREAS AS REQUIRED BY
SPECIFICATIONS.

NOTE:
13 KUKUI NUT TREES PLANTED BUT LATER
REMOVED TO OTHER H-3 PROJECTS ON
8/27/97 DUE TO CONFLICT WITH
OVERHEAD ELECTRIC LINES.

MICHAEL M. MOTODA
REGISTERED
PROFESSIONAL
LANDSCAPE
ARCHITECT
No. 5690
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Michael M. Motoda

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

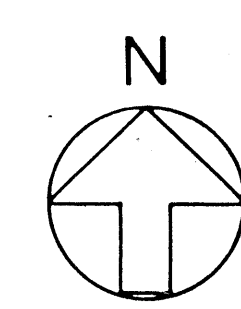
**HALAWA JAIL ACCESS ROAD
LANDSCAPE PLANTING PLAN**
STA. 0+00 TO STA. 10+87

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-K(73)

SCALE: 1" = 40'-0" DATE: APR., 1996

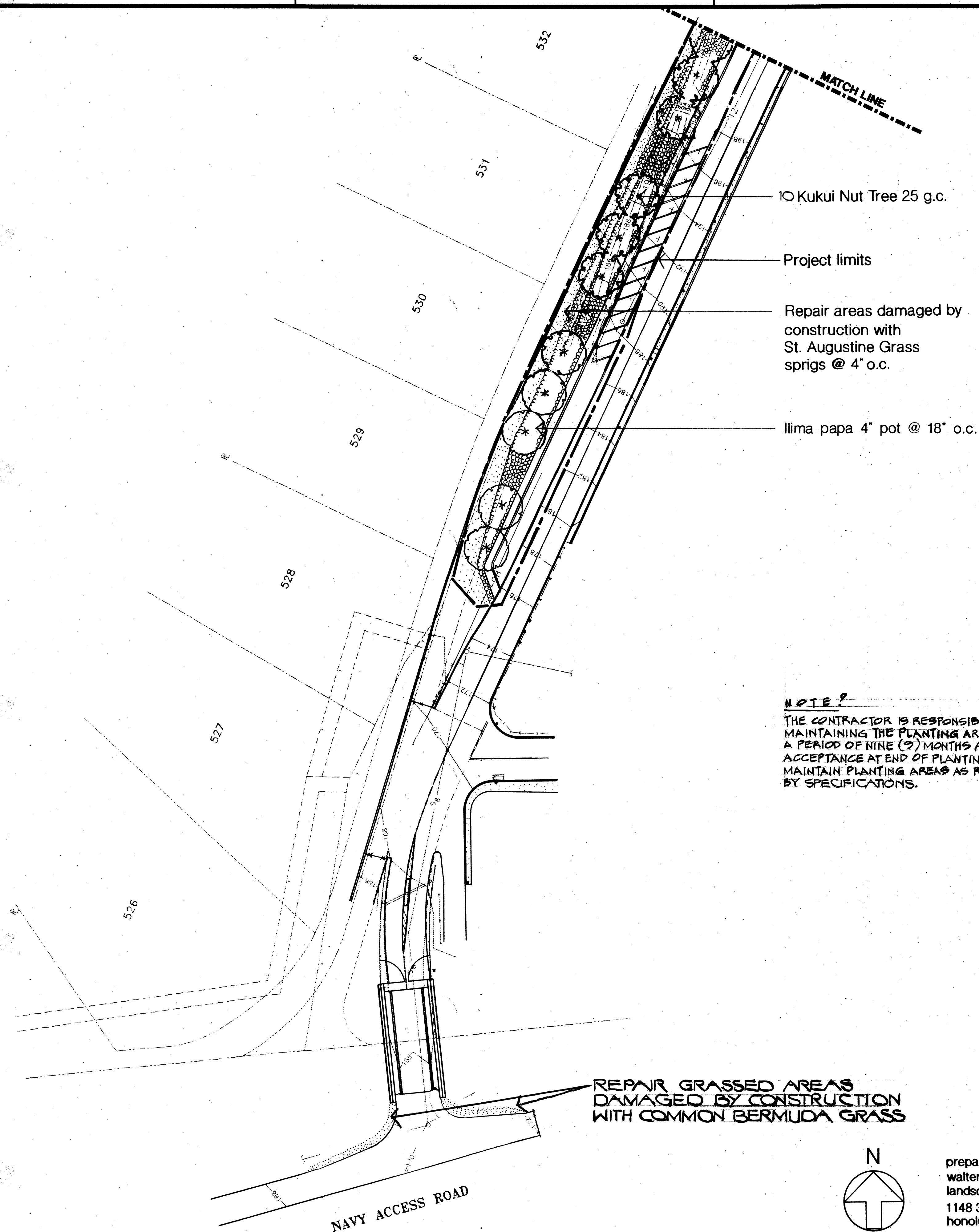
SHEET No. L1 OF 42 SHEETS

prepared by:
walters, kimura, motoda, inc.
landscape architects
1148 3rd. avenue
honolulu, hawaii 96816

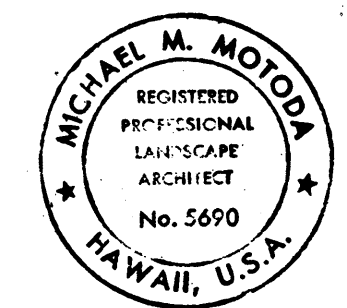


SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(73)	1990	28	42



NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PLANTING AREAS FOR A PERIOD OF NINE (9) MONTHS AFTER ACCEPTANCE AT END OF PLANTING PERIOD. MAINTAIN PLANTING AREAS AS REQUIRED BY SPECIFICATIONS.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Michael M. Motoda

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

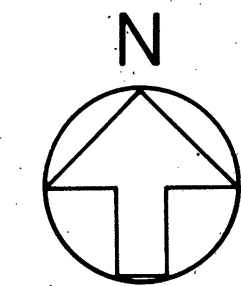
**HALAWA JAIL ACCESS ROAD
LANDSCAPE PLANTING PLAN
STA. 10+87 TO END**

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-K(73)

SCALE: 1" = 40'-0" DATE: APR. 1990

SHEET NO. 28 OF 42 SHEETS

prepared by:
walters, kimura, motoda, inc.
landscape architects
1148 3rd. avenue
honolulu, hawaii 96816



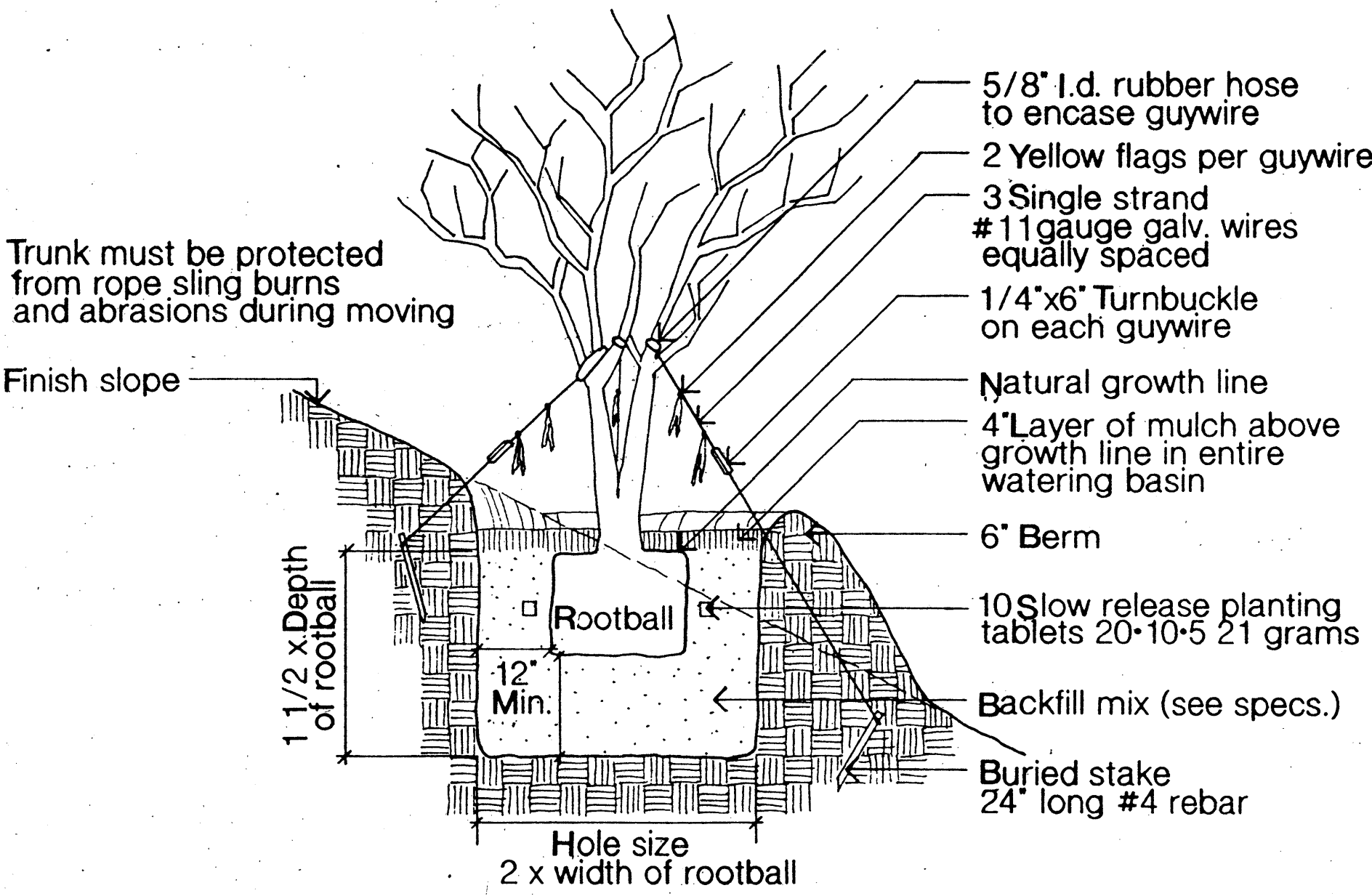
REPAIR GRASSED AREAS
DAMAGED BY CONSTRUCTION
WITH COMMON BERMUJDA GRASS

NAVY ACCESS ROAD

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

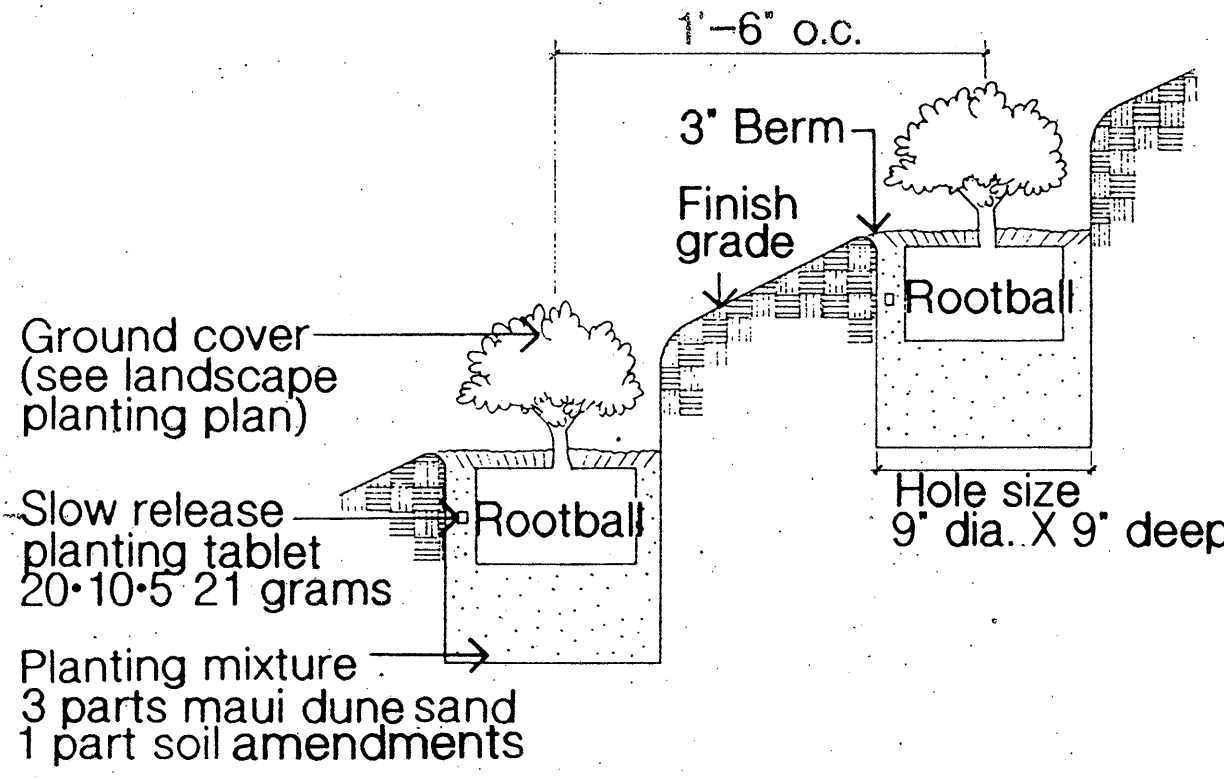
TMK: 9-9-10: 10, 27, 30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(73)	1996	29	42

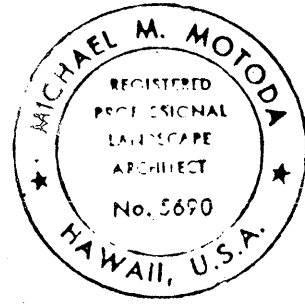


25 G.C. KUKUI NUT TREE PLANTING DETAIL
No scale

SEE NOTE ON PLAN SHEET NO. 28



NATIVE GROUND COVER PLANTING DETAIL
No scale



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Michael M. Moroda

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HALAWA JAIL ACCESS ROAD
PLANT LIST AND DETAILS

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(73)

SCALE: AS NOTED DATE: APR. 1996

SHEET NO. 13 OF 42 SHEETS

PLANT LIST		
BOTANICAL NAME		
COMMON NAME		
TREES	SIZE AND CONDITION	TOTAL
ALEURITES MOLUCCANA	25 G.C.	13
KUKUI NUT TREE	8' TALL, 5' SPD., 2-1/2" CAL.	
GORDIA SUBCORDATA	25 G.C.	7
KOU	8' TALL, 5' SPD., 2-1/2" CAL.	
GROUND COVERS AND GRASSES		
STENOTAPHRUM SECUNDATUM	SPRIGS S.F.	16,500
ST. AUGUSTINE GRASS		
SIDA FALLAX	4" POTS AT 1'-6" O.C.	4,300
ILIMA PAPA/PROSTRATE ILIMA	EACH	
CYNODON DACTYLON	SEEDING S.F.	700
COMMON BERMUDA GRASS		
CYNODON DACTYLON	HYDROMULCH 100 POUNDS COMMON BERMUDA GRASS SEED WITH 25 POUNDS ANNUAL RYEGRASS SEED PER ACRE S.F.	39,000
MISCELLANEOUS		
ROOT CONTROL BARRIER	L.F., TYPAR BIOBARRIER 19.5" DEEP	440
SOIL AMENDMENTS	S.F., (2" LAYER FOR AREAS TO BE REPAIRED WITH ST. AUGUSTINE GRASS)	16,500
MAINTENANCE PERIOD	MONTHS (INCLUDES PLANTING PERIOD)	12
PLANTING MIX FOR NATIVE PLANTS	C.Y. (SEE SPECS.)	53
IMPORTED SCREENED SOIL	C.Y., 6" DEEP LAYER	46
TEMPORARY IRRIGATION SYSTEM	S.F.	64,560

GENERAL NOTES:

1. The Contractor shall be responsible for verifying all quantities, measurements and site conditions, including locations of all utilities.
2. The Plant List quantities are approximate and should serve only as a guideline for the Contractor. All work indicted on the drawings by note shall be provided whether or not specifically mentioned in the Plant List. Ground covers shall be furnished in quantities as required to cover the areas indicated on the plans at the space noted. The Contractor shall verify all quantities before bidding.
3. The Contractor shall verify locations of all existing utility lines prior to construction operations. Any utility lines damaged by Contractors operations shall be repaired at no additional cost.
4. Contractor shall notify Engineer of any discrepancies prior to commencement of work.
5. Planting will not commence until the planting area is prepared to finish grade. For finish grade see Civil drawings.
6. For final walkway layout see Civil drawings.
7. Prior to tree hole excavation, all planting locations shall be staked out by the Contractor for approval by the Engineer.
8. Tree holes shall be at least two times the diameter and one and one half times the depth of the rootball or the rootball

8. Tree holes shall be at least two times the diameter and one and one half times the depth of the rootball or the rootball dimensions plus the minimum clearance shown on the plans, whichever is greater.
9. If coral, rock, hard pan or unsuitable material is encountered while excavating for the planting hole, the material shall be broken up or removed at least 12 inches beyond the normal dimensions of the hole as directed by the Engineer.
10. Guy wires, flagging, stakes, etc. shall be maintained and replaced if necessary, by the Contractor, until the tree is able to stand by itself. When it becomes unnecessary the Contractor shall remove and dispose of supports.
11. Organic soil conditioners, mulch, guy wires, turn buckles, yellow flagging tapes, stakes, rubber hoses, and backfill mix shall be considered incidental to planting and transplanting of trees and will not be measured for payment.
12. Section 619 - Planting and Transplanting of the latest Hawaii Standard Specifications for Road, Bridge and Public Works Construction, as amended, is applicable to these details.
13. The Contractor shall furnish and install necessary material and labor required to install temporary irrigation system at locations indicated on the plans or as designated by the Engineer. Water service connection shall be installed as per requirements of the appropriate County Water Supply or governing agency. The Contractor shall furnish and install service lateral, service connection, meter, meter box, shut-off valve, valve box and miscellaneous items necessary to complete connection including excavation, backfilling and tapping into the water main.
14. The Contractor shall make arrangements with the appropriate County Water Department for the water service and pay for water and service charges during the period of the use of the sprinkler system.