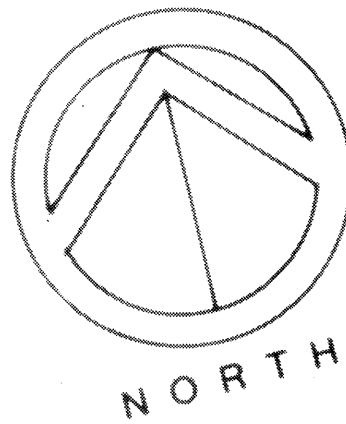


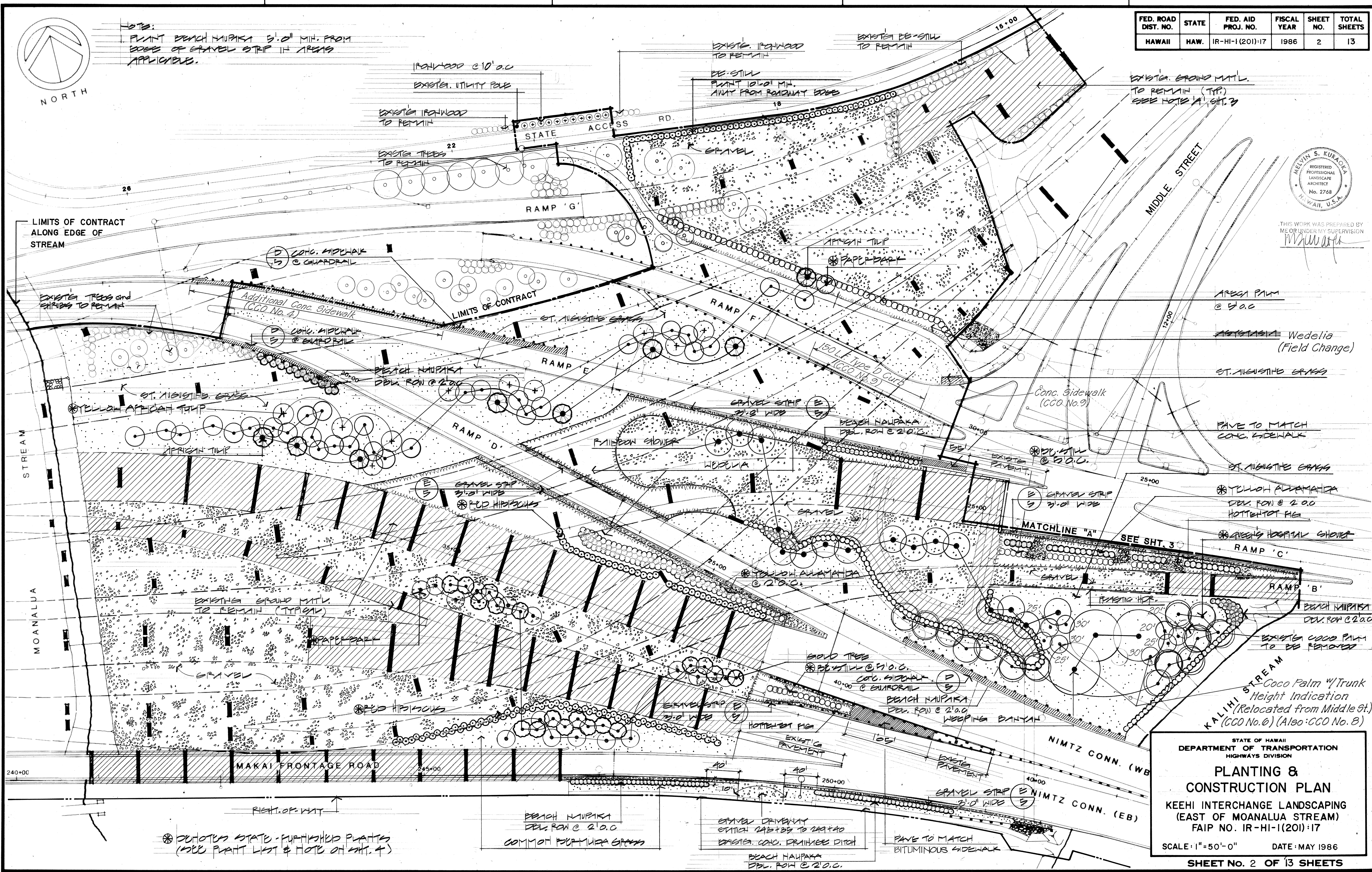


NOTE:
PLANT BEACH NAUPAKA 5'-0" MIN. FROM
EDGE OF GRAVEL STRIP IF AREAS
APPLICABLE.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(201)-17	1986	2	13



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Melvin S. Kuracka



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTED WORK	_____
NO.	_____

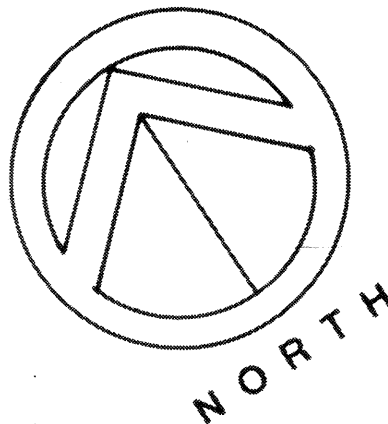
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PLANTING &
CONSTRUCTION PLAN**

KEEHI INTERCHANGE LANDSCAPING
(EAST OF MOANALUA STREAM)
FAIP NO. IR-HI-1(201)-17

SCALE: 1"=50'-0" DATE: MAY 1986

SHEET No. 2 OF 13 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1R-HI-1(201):17	1986	3	13

NOTE 'A'

1. CLEAR EXISTING GRAVEL & GROUND AREAS OF ALL VEGETATION, DEBRIS, LITTER & SOIL MATERIAL AND DISPOSE OF MATERIALS OFFSITE AND APPLY A PRE-EMERGENT WEED CONTROL AGENT TO EXISTING GROUND AREAS. PAYMENT TO BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
RESTORE EXISTING GROUND AREAS W/ GRAVEL AT A DEPTH OF 6 INCHES AS DIRECTED BY ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 055.1000.
2. THE CONTRACTOR SHALL CONFIRM THE LIMITS OF EXISTING GRAVEL AREAS. EXISTING GRAVEL AREAS SHALL NOT BE RECONSTRUCTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

OVERSEER 'SALMON'
PLANT FROM STA. 257B+50
TO 264+50 H-1 (WB)

EXISTING PLANTING

LIMITS OF PLANTING
STA. 264+50

EXISTING GROUND MTL.
TO REMAIN
SEE NOTE 'A'



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ME OR UNDER MY SUPERVISION

Melvin S. Kuraoka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING &
CONSTRUCTION PLAN

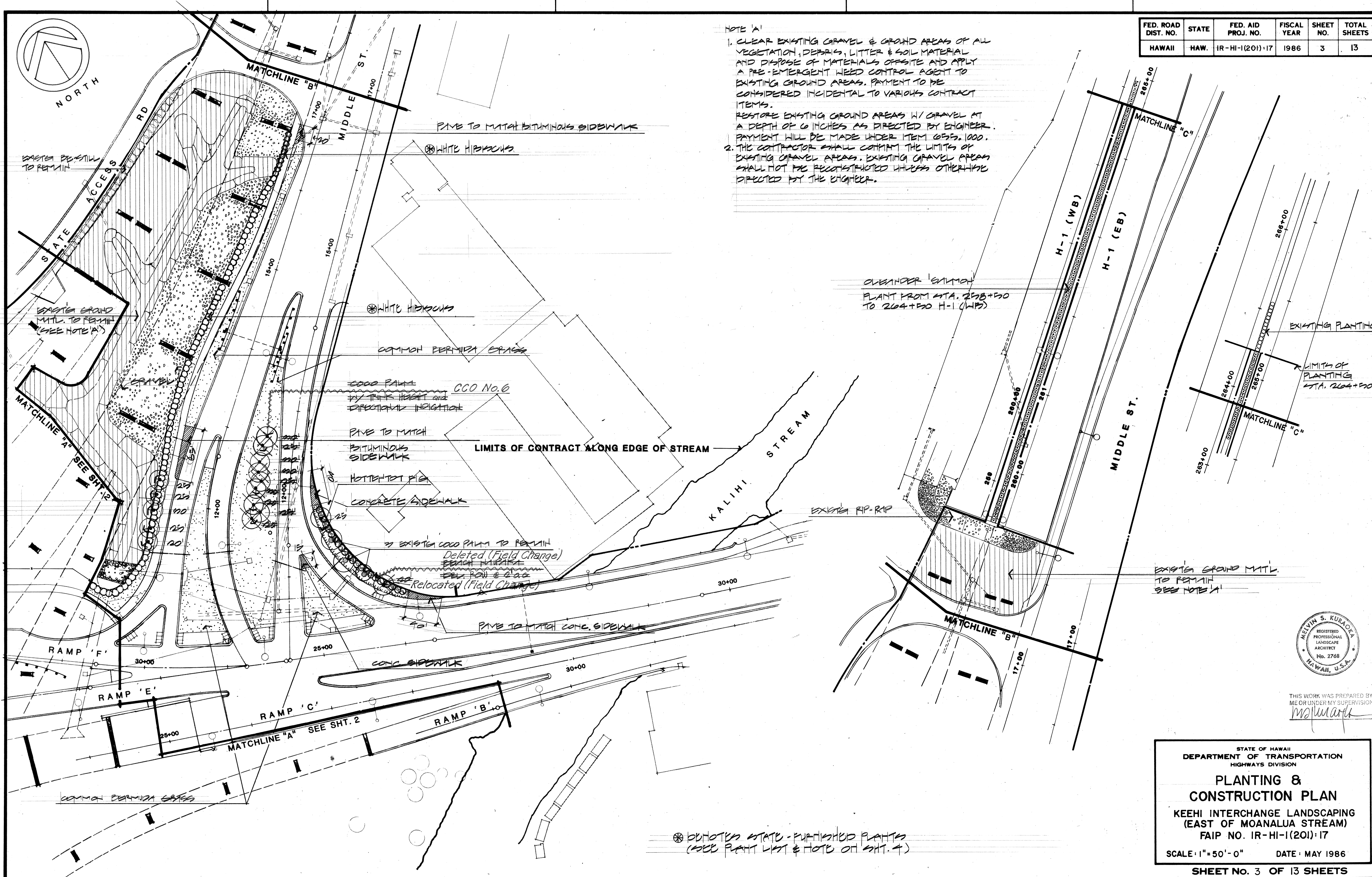
KEEHI INTERCHANGE LANDSCAPING
(EAST OF MOANALUA STREAM)
FAIP NO. 1R-HI-1(201):17

SCALE: 1"=50'-0" DATE: MAY 1986

SHEET NO. 3 OF 13 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

⊗ DENOTES STATE-FURNISHED PLANTS
(SEE PLANT LIST & NOTE ON SHT. 4)



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(201)17	1986	4	13

PLANT LIST and MISCELLANEOUS

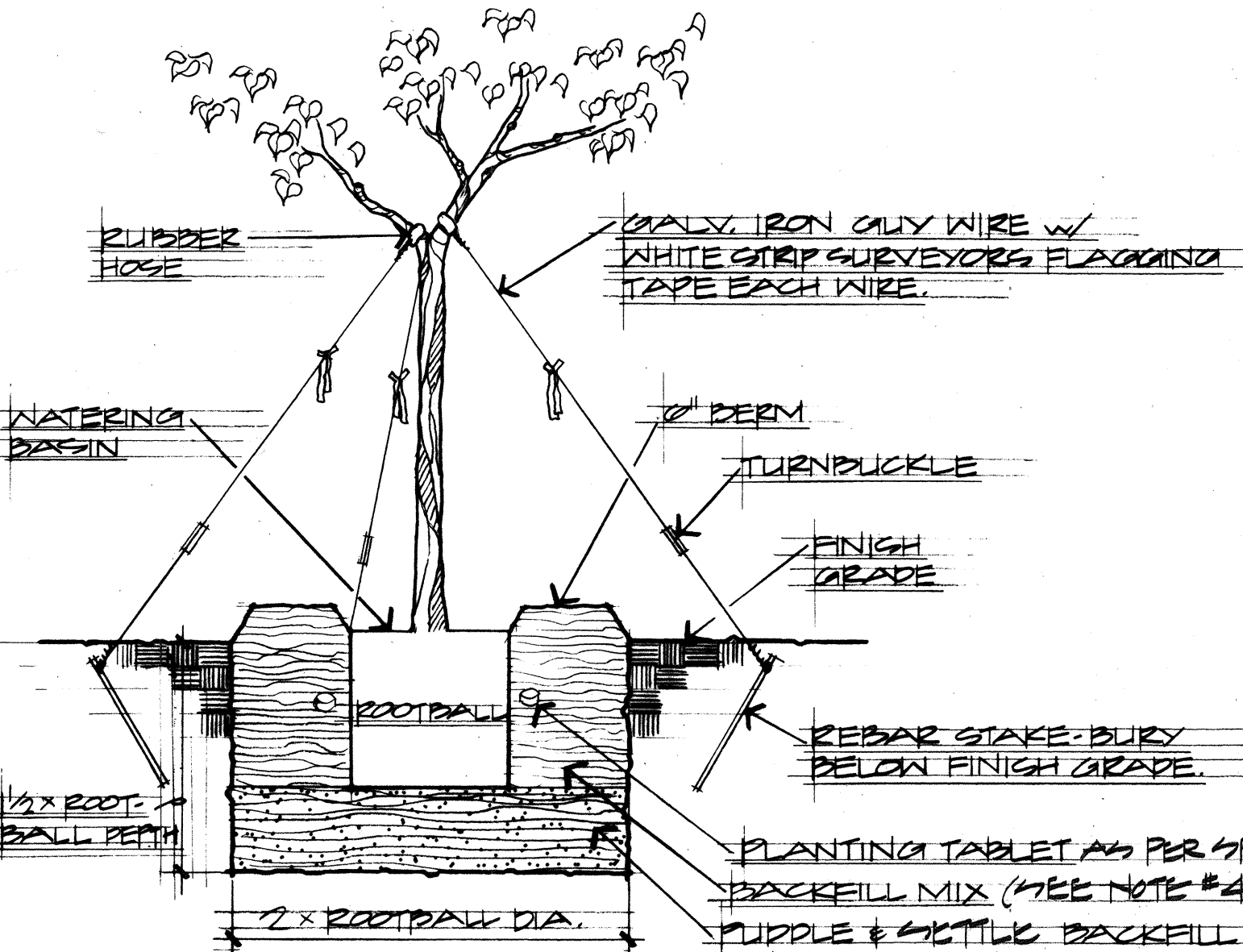
QUANT.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	SPD.	CLPR.	REMARKS
16	COCONUT PALM	COCOS NUCIFERA	1 1/2"	20'-30'			TRUNK HT.
77	ARECA PALM	CHRYSALEDOCARPUS LUTESCENS	2 1/2"	3'			OVERALL HT.
13	GOLD TREE	TAPESCUA DONNELL-SMITHII	2 1/2"	8'		2"	
8	AFRICAN TULIP	SPATHODEA CAMPANULATA	1 1/2"	10'-15'	2'	1 1/2"	
45	PAPERBARK	MELALEUCA LEUCADENDRON	1 1/2"	7'			
16	RAINBOW SHOWER	CASSIA JAVANICA X C. PIPTULA	2 1/2"	8'	4'	2"	
14	QUEEN'S HOSPITAL SHOWER	CASSIA SP.	2 1/2"	10'-15'			
3	WEeping BANYAN	FICUS BENJAMINA	1 1/2"	10'-12'	6'-8'	4"	
11	IRONWOOD	CASUARINA EQUISETIFOLIA	2 1/2"	15'-24'			
10	YELLOW AFRICAN TULIP	SPATHODEA CAMPANULATA	2 1/2"	10'-12'			
1500	PEACH NAUPAKA	MCAEVOLA PRUTENSIS	1 GA	12'-15"			500 PLANTS
70	BE-STILL	THEVETIA PERUVIANA	2 1/2"	15'-24"			5' O.C.
150	SALMON OLEANDER	NERIUM OLEANDER	2 1/2"	15'-24"			4' O.C.
44	PE-STILL	THEVETIA PERUVIANA	10 GA	10'			3' O.C.
1500	RED HIPPOCYS (SINGAPORE)	HIPPOCYS ROSEA-SINGAPORENSIS	1 GA	8'-10'			2' O.C.
1500	WHITE HIPPOCYS (SINGAPORE)	HIPPOCYS POP.	1 GA	5'-8'			2' O.C.
125	YELLOW ALLAMANDA	ALLAMANDA CATHARTICA HENDERSONII	1 GA	12'-15"			
1500	COMMON BERMUDA GRASS	CYNODON DACTYLON	HYDROMULCH / SEED				
185,000	ST. AUGUSTINE GRASS	STENOTAPHRUM SECUNDATUM	SPREAD IN FURROWS 6" APART, @ 6" O.C.				
11,000	HOTTENTOT FIG	CARPOBROTUS EDULIS	ROOTED CUTTINGS @ 8" O.C.				
150,000	HEDELLIA	HEDELLIA TRICOLORATA	ROOTED CUTTINGS @ 8" O.C.				
1500	GRAVEL						
1500	PLASTIC HEADER						

⊗ DENOTES STATE-FURNISHED PLANTS (SEE NOTE #5 BELOW)

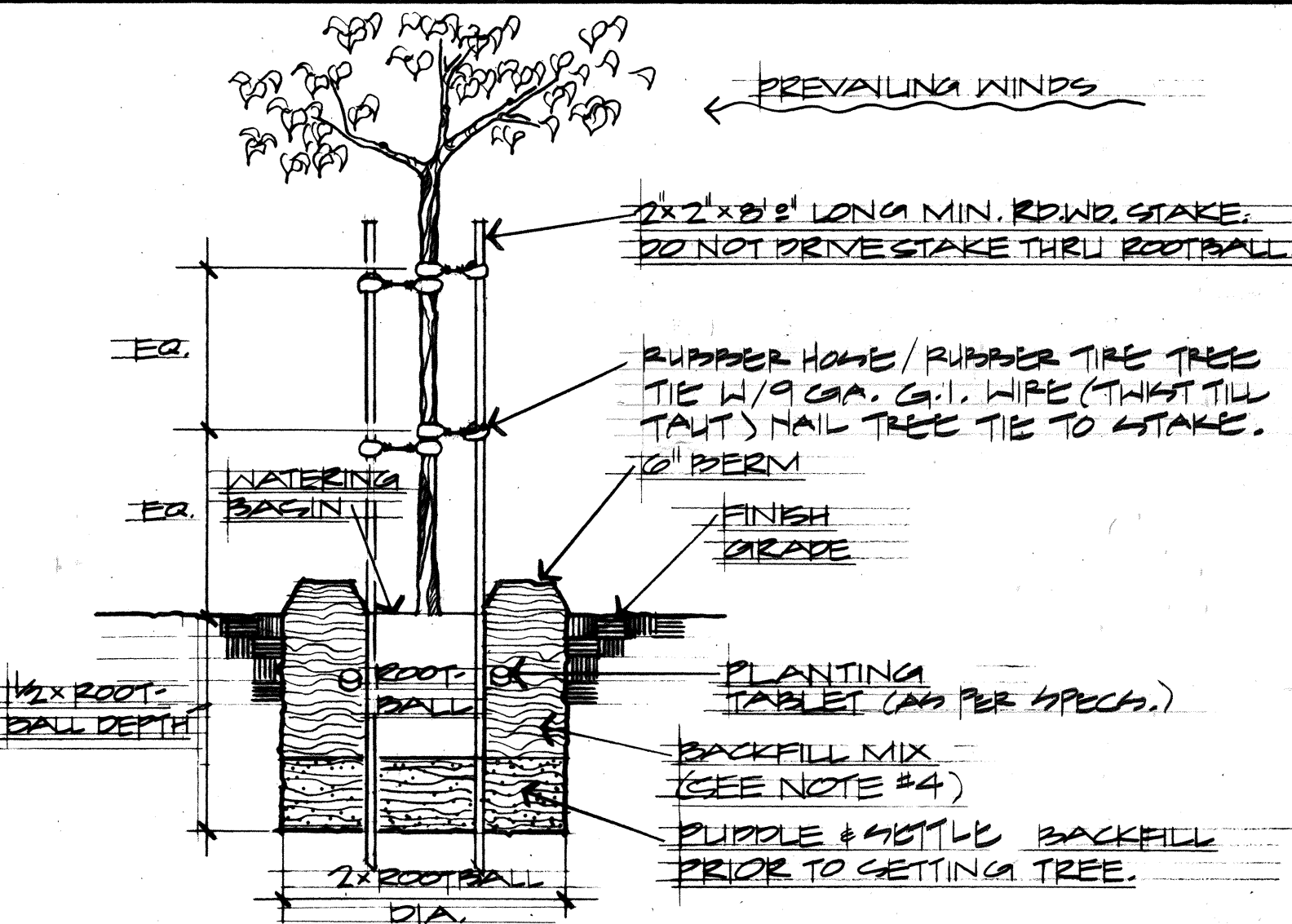
NOTES

- EXCAVATE EXISTING TOP (6) SIX INCHES OF SOIL IN ALL AREAS WITHIN THE LIMITS OF CONTRACT AND DISPOSE OFF-SITE IN ACCORDANCE TO SECT. 201 CLEARING AND GRUBBING.
 - PLACE 6" OF IMPORTED PLANTING SOIL IN ALL PLANTING AREAS SHOWN ON PLANS EXCEPT WHERE GRAVELED AND SHALL BE IN ACCORDANCE TO SECT. 617 PLANTING SOIL.
 - PLACE 6" OF GRAVEL IN AREAS SHOWN ON PLANS.
 - BACKFILL MIX SHALL CONSIST OF 3 PARTS IMPORTED PLANTING SOIL, AND 1 PART ORGANIC AMENDMENT.
 - DURING THE BIDDING PERIOD, THE CONTRACTOR SHALL INSPECT THE STATE-FURNISHED PLANTS (⊗ DENOTED ON THE PLANTING PLANS AND PLANT LIST) AT NURSERY INDUSTRIES (WAIMANALO). CONTACT THE NURSERY AT PH. 259-9142, SO A MUTUALLY AGREEABLE TIME FOR THE INSPECTION MAY BE ARRANGED. AFTER THE CONTRACT IS AWARDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRIMMING AND PRUNING OF PLANTS TO INSURE THEIR UNIFORMITY OF SIZES AT TIME OF PLANTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRANSPORTING OF PLANTS FROM THE NURSERY TO THE JOBSITE.
- THE CONTRACTOR SHALL REPLACE ANY DEAD, DISEASED OR UNSATISFACTORY PLANTS AS SOON AS POSSIBLE. CONTACT THE ENGINEER FOR REPLACEMENT PLANTS THAT CAN BE OBTAINED AT COST FROM THE STATE.

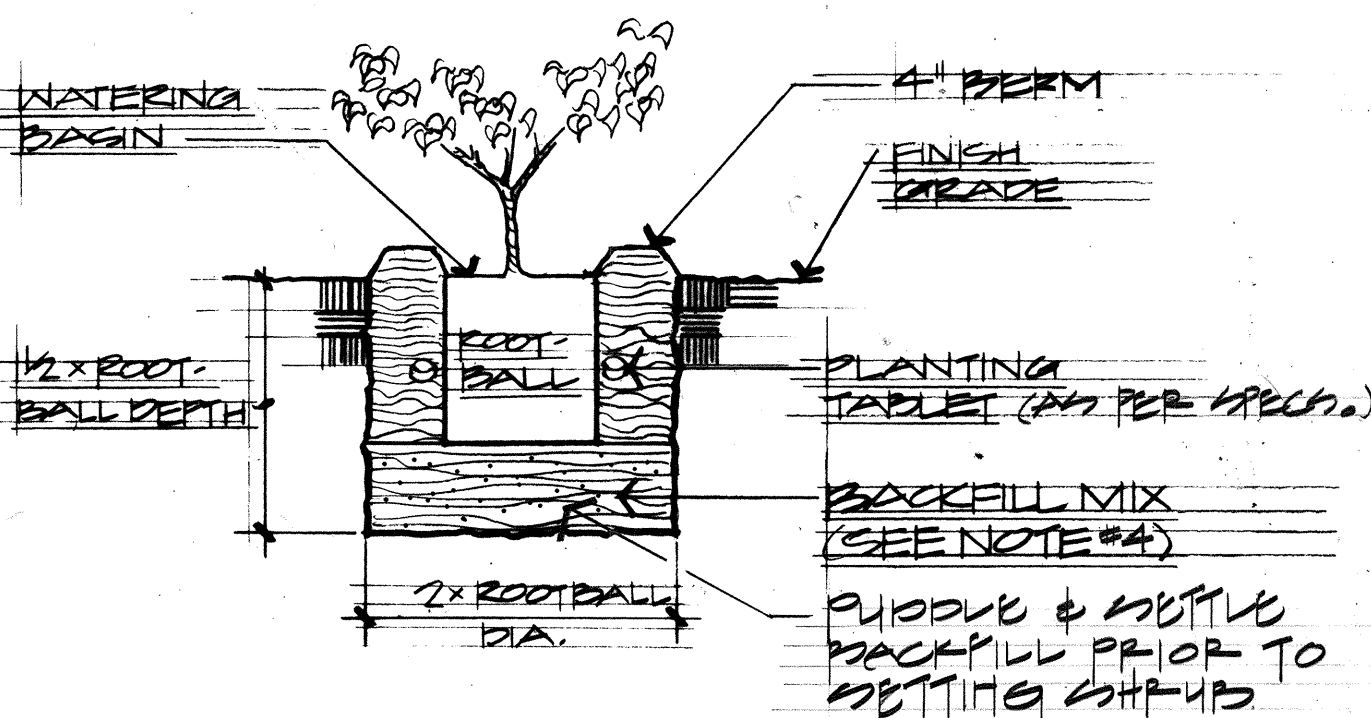
- NOTE:
- TURNBUCKLE EA. WIRE FOR FIELD STOCK TREES ONLY.
 - WIRE WIRE SIZES:
#12 FOR 13 & 25 GAL. TREES.
#9 FOR FIELD STOCK TREES.
 - REBAR STAKE SIZES:
#4 x 2' LONG FOR 13 & 25 GAL. TREES.
#7 x 1 1/2' LONG FOR FIELD STOCK TREES.



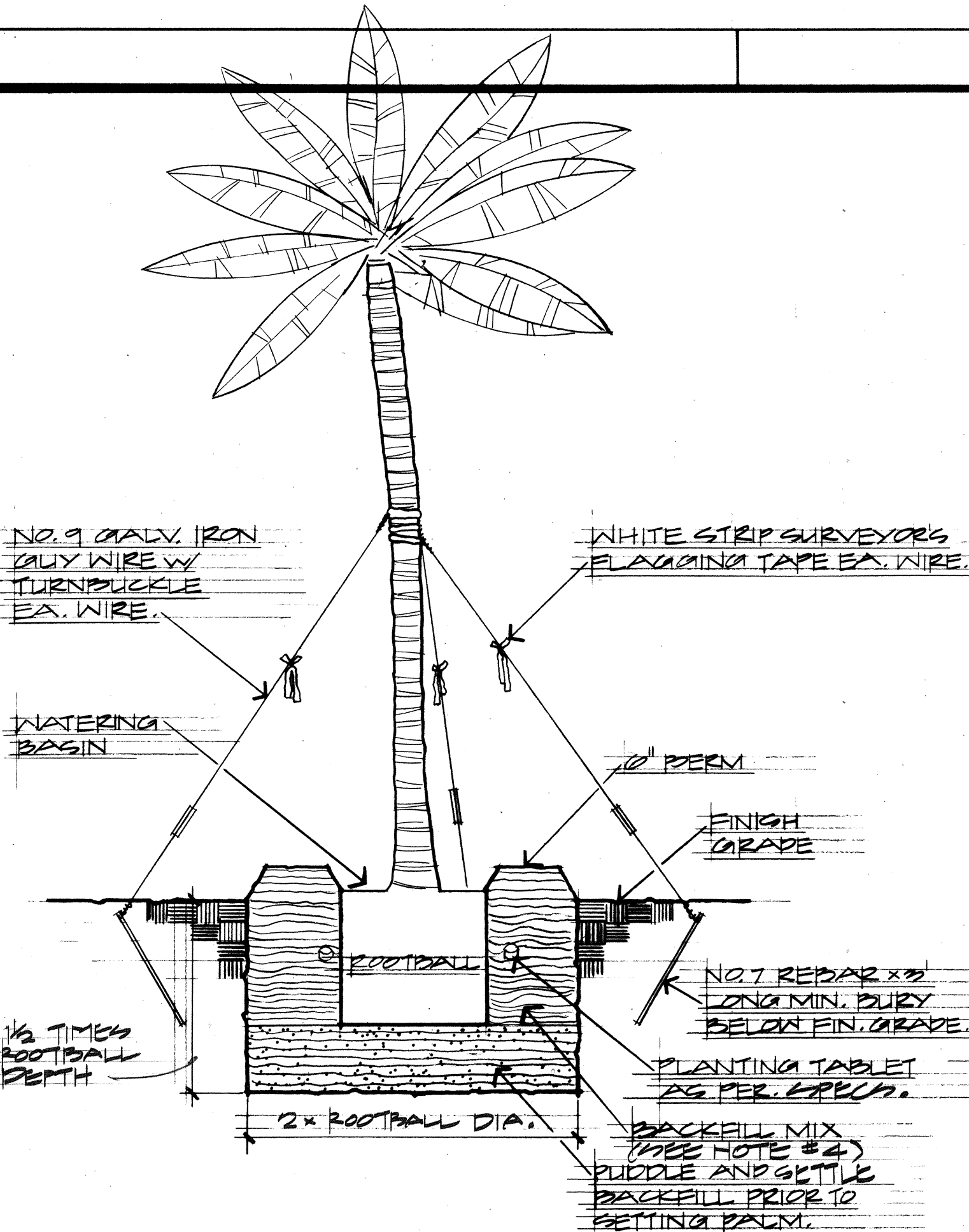
B TREE GUYING & PLANTING DETAIL
NO SCALE



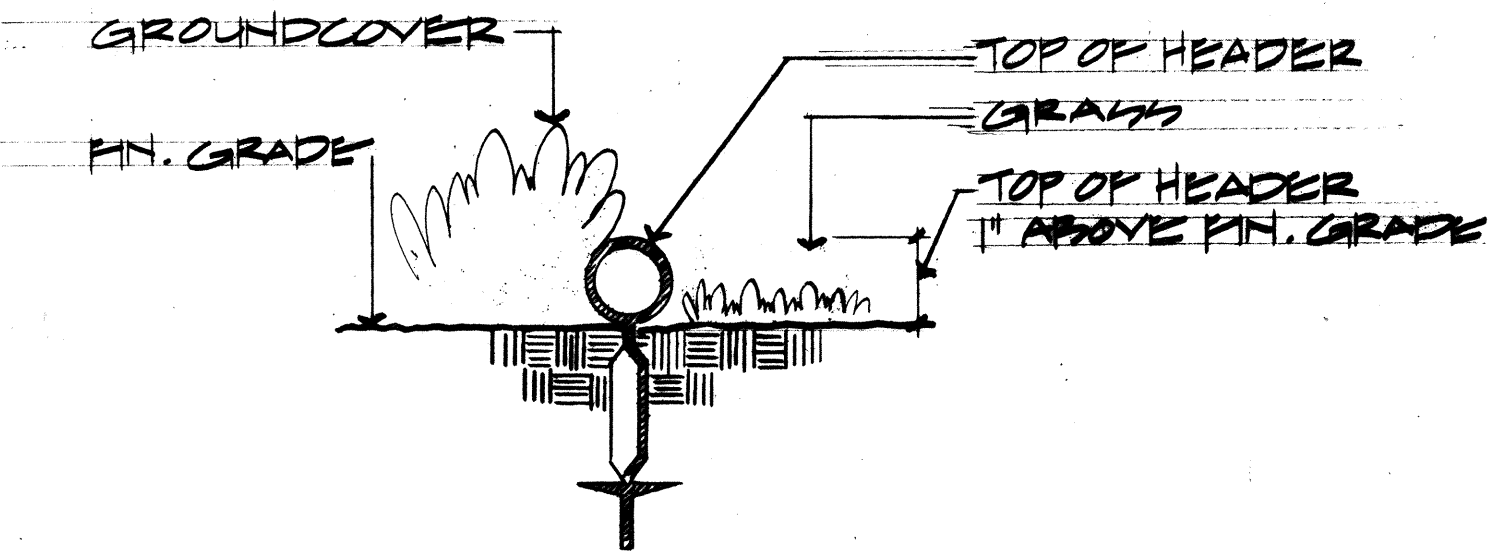
D TREE STAKING DETAIL
NO SCALE



E SHRUB PLANTING DETAIL
NO SCALE

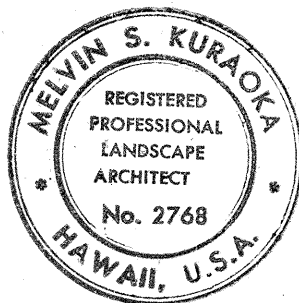


A PALM PLANTING DETAIL
NO SCALE



C PLASTIC HEADER DETAIL
NO SCALE

DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____



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Kevin S. Kuraoka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

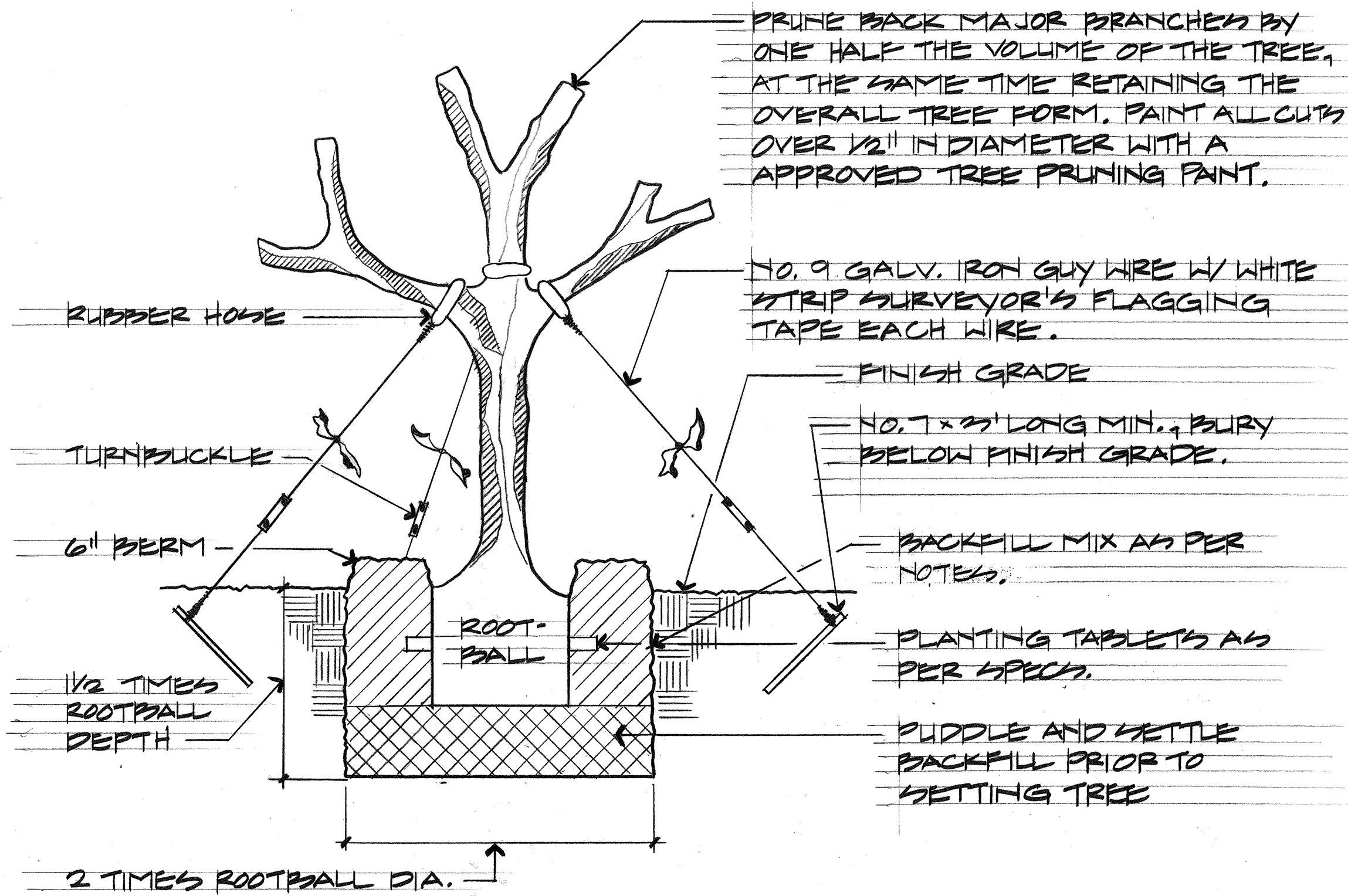
**PLANT LIST,
NOTES & DETAILS**

KEEHI INTERCHANGE LANDSCAPING
(EAST OF MOANALUA STREAM)
FAIP NO. IR-HI-1(201)17

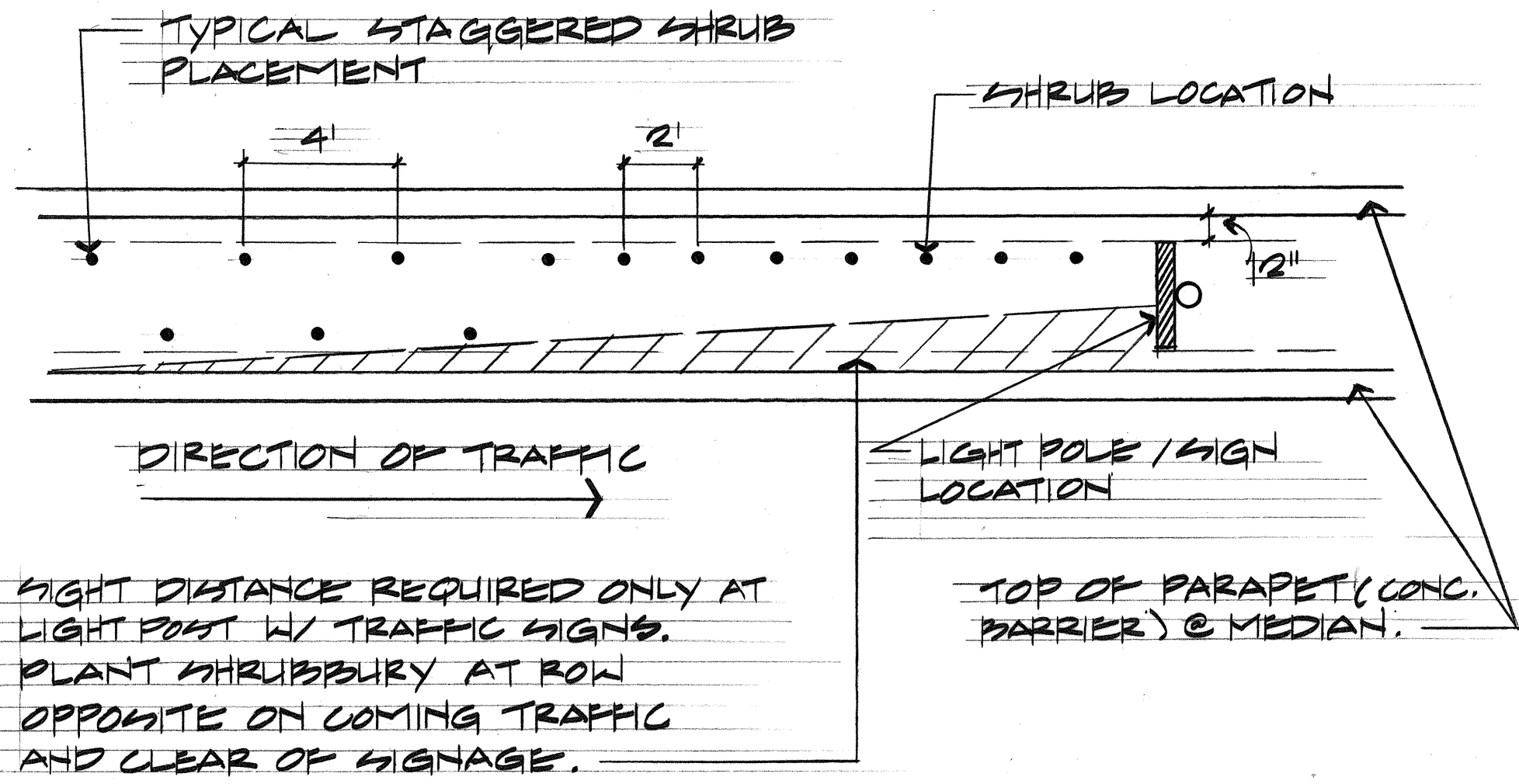
SCALE: AS SHOWN DATE: MAY 1986

SHEET NO. 4 OF 13 SHEETS

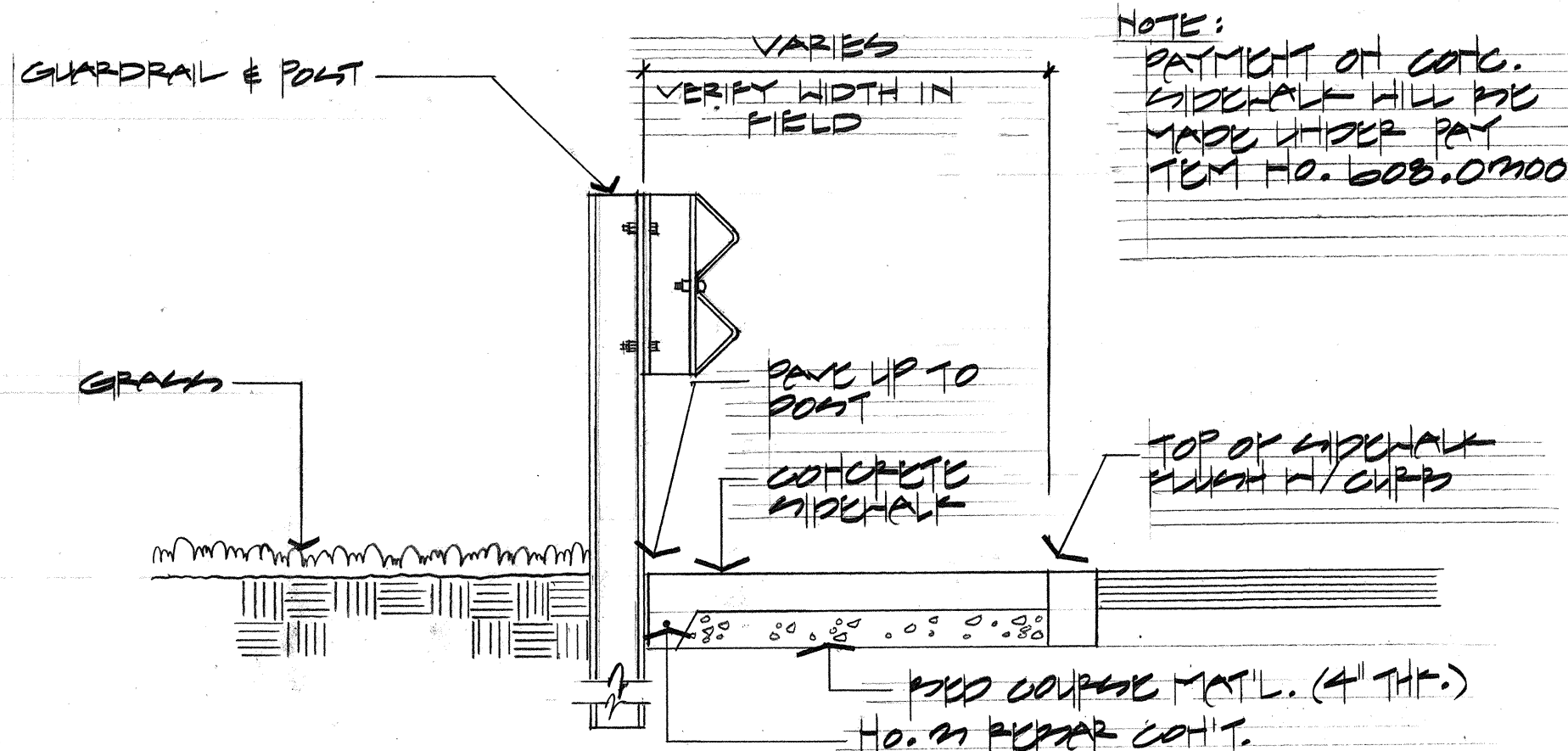
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(201):17	1986	5	13



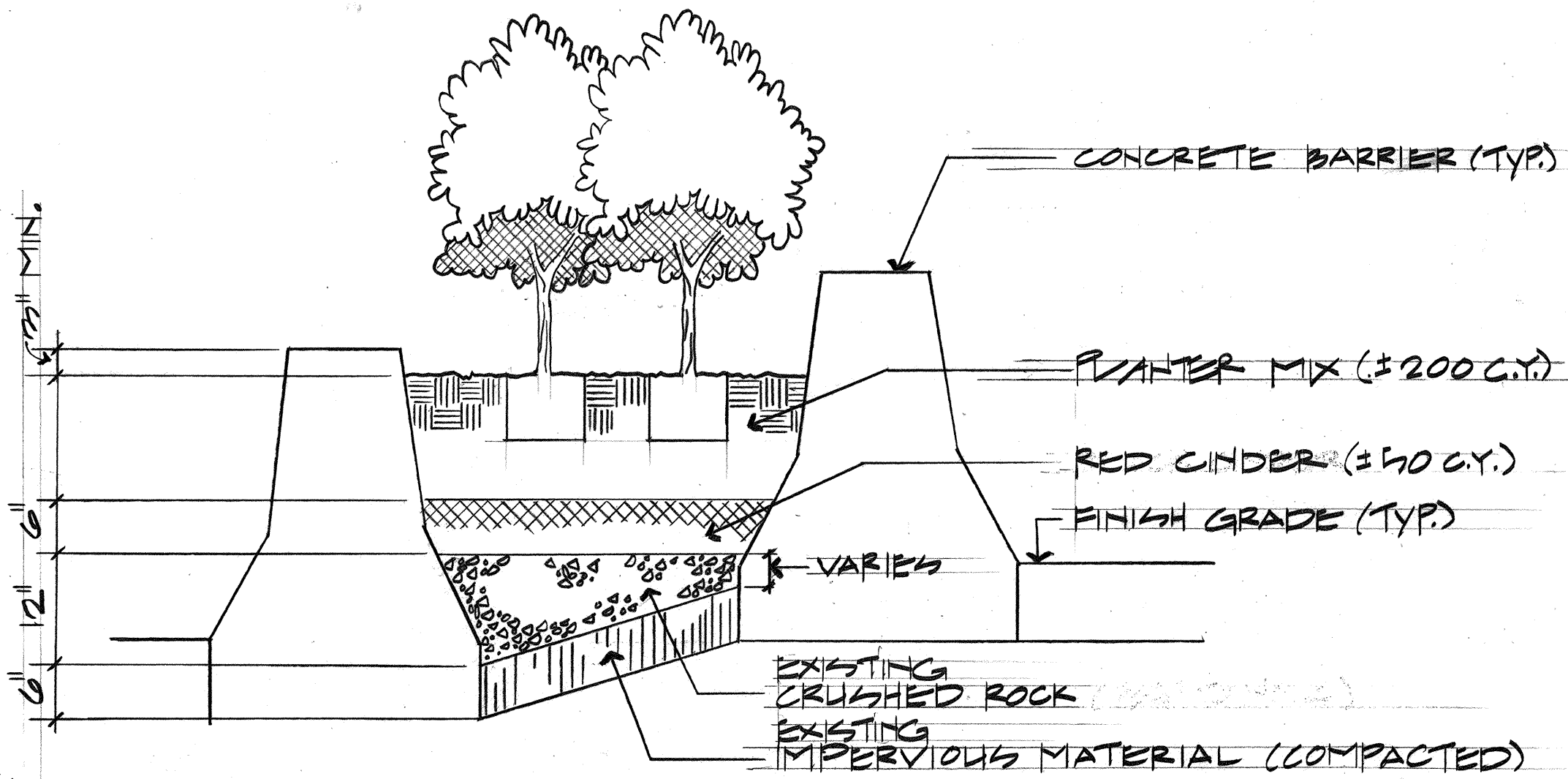
A TREE TRANSPLANTING DETAIL
NO SCALE



C MEDIAN PLANTING DETAIL
NO SCALE

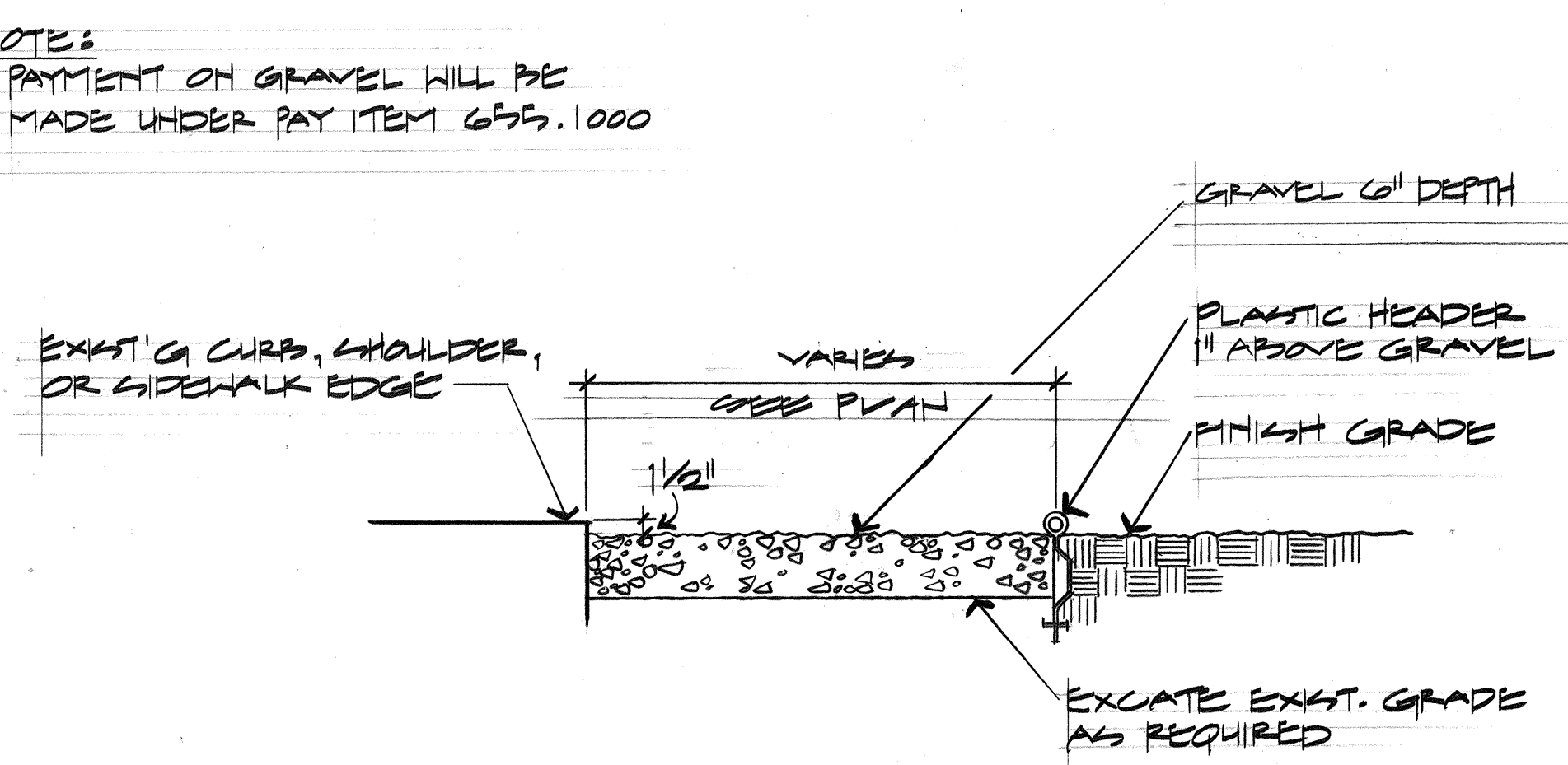


D CONCRETE SIDEWALK AT GUARDRAIL
NO SCALE



NOTES:
1. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ALL MATERIALS USED AS BACKFILL WITHIN THE MEDIAN.
2. SEE SECTION 712.60 OF SPECIAL PROVISIONS FOR PLANTER MIX
H-1 (WB) Sta. 258+50 to Sta. 261+20±
Use Existing Planter Box Material. (CCO No. 7)

B MEDIAN PLANTER BACKFILL and PLANTING DETAIL
H-1 (WB) STA. 258+50 TO 261+20±
NO SCALE (CCO No. 7)



E TYPICAL GRAVEL STRIP
NO SCALE



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M. Kuratoka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTING DETAILS
KEEHI INTERCHANGE LANDSCAPING
(EAST OF MOANALUA STREAM)
FAIP NO. IR-HI-1(201):17
SCALE: AS SHOWN DATE: MAY 1986
SHEET NO. 5 OF 13 SHEETS

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