

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	8	53

REINF. CONC. DROP DRIVEWAY SCHEDULE

STATION	WIDTH	EST. QUANT.
0+15± Rt.	10'	8.56 sq. yd.
5+86± Lt.	10'	8.56 sq. yd.
8+88± Rt.	10'	8.56 sq. yd.
9+40± Lt.	10'	8.56 sq. yd.
12+60± Lt.	10'	8.56 sq. yd.
12+83± Lt.	42' 20"	28.11 sq. yd.
13+12± Rt.	10'	8.56 sq. yd.
13+53± Rt.	10'	8.56 sq. yd.
15+42± Lt.	10'	9.48 sq. yd.
18+41± Lt.	10'	8.56 sq. yd.
18+80± Lt.	31' 20"	21.37 sq. yd.
20+00± Lt.	20'	14.67 sq. yd.
22+20± Lt.	10'	8.56 sq. yd.
23+50± Lt.	35' 40"	23.83 sq. yd.
23+85± Lt.	20'	14.67 sq. yd.
24+23± Lt.	35' 20"	23.83 sq. yd.
25+25± Lt.	35' 120"	23.89 sq. yd.
25+87± Rt.	10'	8.56 sq. yd.
26+40± Lt.	35' 240"	23.96 sq. yd.
26+80± Lt.	10'	8.56 sq. yd.
28+13± Rt.	20'	14.67 sq. yd.
28+22± Lt.	10'	8.56 sq. yd.
28+64± Lt.	10'	8.56 sq. yd.
29+27± Lt.	10'	8.56 sq. yd.
31+15± Lt.	30' 20"	20.78 sq. yd.
31+25± Lt.	30' 20"	20.78 sq. yd.
33+32± Lt.	10'	8.56 sq. yd.
34+36± Lt.	10'	8.56 sq. yd.
34+50± Lt.	10'	8.56 sq. yd.
35+38± Lt.	10'	8.56 sq. yd.
35+81± Lt.	10'	8.56 sq. yd.
36+80± Lt.	10'	8.56 sq. yd.
37+27± Lt.	10'	8.56 sq. yd.
37+26± Lt.	10'	8.56 sq. yd.
38+68± Lt.	10'	8.56 sq. yd.
38+86± Lt.	10'	8.56 sq. yd.
40+06± Lt.	10'	8.56 sq. yd.
40+65± Lt.	14' 20"	11.00 sq. yd.
42+46± Lt.	10'	8.56 sq. yd.
43+63± Lt.	10'	8.56 sq. yd.
TOTAL		412 sq. yd.

Aggregate Base Course = 46 cu. yd.

41+27± Lt. 14' 11.00
24+84± Rt. 26' 18.33
TOTAL 488.28

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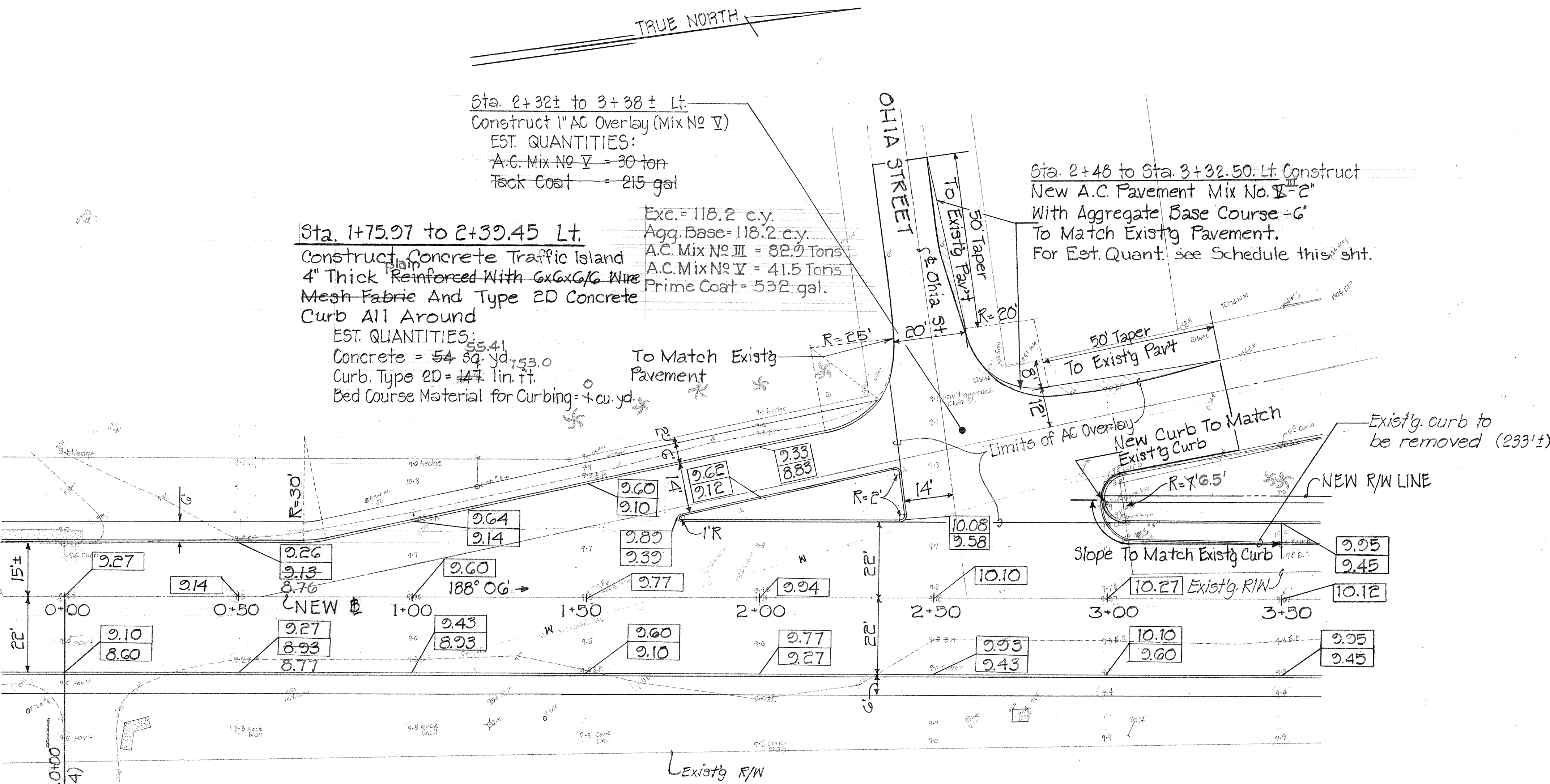
Kenneth F. Sharr
Signature
7-30-73

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN OHIA STREET INTERSECTION

PROJ. NO. 56A-01-74

SHEET No. 1 OF 5 SHEETS



PLAN- OHIA STREET INTERSECTION

Scale: 1"=20'

NEW A.C. PAVEMENT TO MATCH EXISTING PAVEMENT (Approaches) 6" BASE COURSE, 2" AC. MIX NO V

APPROACH	STATION	ESTIMATED QUANTITIES					A.C. MIX NO III
		EXCAVATION	AGGREGATE BASE	AC. MIX NO V	PRIME COAT		
Ohia-ulu St.	2 + 75± Lt.	5118.2 cu. yd.	4118.2 cu. yd.	34 tons	532 gal.	82.9 Tons	
Inia St.	5 + 50± Rt.	125.6 cu. yd.	915 cu. yd.	6 tons	21 gal.	11.13 "	
Kauwila St. Lt.	11 + 00± Lt.	721.45 cu. yd.	522.2 cu. yd.	4.7 tons	13 gal.	15.44 "	
Kauwila St. Rt.	11 + 00± Rt.	613.86 cu. yd.	421.31 cu. yd.	3 tons	11 gal.	14.25 "	
Park Rd.	18 + 10± Rt.	317.40 cu. yd.	226.58 cu. yd.	2 tons	6 gal.	18.44 "	
	23 + 80± Rt.	21 cu. yd.	1151 cu. yd.	11 tons	37 gal.		
Hauaala Rd.	44 + 20± Lt.	71.36 cu. yd.	521.82 cu. yd.	4.7 tons	12 gal.	15.31 Tons	
Kawaihau Rd.	45 + 50± Rt.	213.13 cu. yd.	213.13 cu. yd.	4.6 tons	4 gal.	9.21 "	
TOTAL		63 cu. yd.	46 cu. yd.	34 tons	113 gal.		

See Plan Shts. 8 thru 12 for other Approaches.

NEW A.C. DRIVEWAY SCHEDULE (6" BASE COURSE, 2" AC. MIX NO V)						
STATION	WIDTH	ESTIMATED QUANTITIES				
		A.C. MIX NO V	AGGREGATE BASE	PRIME COAT	ROADWAY	
-1+20± Rt.	10'	5 tons	(overlay only)	-	EXC.	EMB.
9+40± Lt.	10'	1 ton	1 cu. yd.	1 gal.	1 cu. yd.	-
12+60± Lt.	10'	1 ton	1 cu. yd.	1 gal.	1 cu. yd.	-
12+83± Lt.	20'	1 ton	1 cu. yd.	2 gal.	1 cu. yd.	-
22+20± Lt.	10'	2 tons	3 cu. yd.	7 gal.	4 cu. yd.	-
23+50± Lt.	10'	1 ton	1 cu. yd.	2 gal.	1 cu. yd.	-
23+85± Lt.	20'	1 ton	2 cu. yd.	5 gal.	3 cu. yd.	-
24+23± Lt.	20'	2 tons	3 cu. yd.	6 gal.	1 cu. yd.	-
25+25± Lt.	20'	4 tons	6 cu. yd.	12 gal.	3 cu. yd.	-
25+87± Rt.	10'	2 tons	3 cu. yd.	7 gal.	2 cu. yd.	-
26+40± Lt.	10'	2 tons	3 cu. yd.	7 gal.	5 cu. yd.	-
26+80± Lt.	10'	3 tons	5 cu. yd.	10 gal.	7 cu. yd.	-
28+13± Rt.	20'	6 tons	9 cu. yd.	18 gal.	2 cu. yd.	4 cu. yd.
28+22± Lt.	10'	1 ton	2 cu. yd.	5 gal.	3 cu. yd.	-
28+64± Lt.	10'	1 ton	1 cu. yd.	2 gal.	1 cu. yd.	-
T O T A L		33 tons	41 cu. yd.	85 gal.	35 cu. yd.	4 cu. yd.

ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTED BY
QUANTITIES BY
NO.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	2	53

REINF. CONC. SIDEWALK AND CURBING SCHEDULE

STATION	ITEM	WIDTH	EST. QUANT.
-1+42± to -1+28± Rt.	Sidewalk	Varies	7.24 5 Sq. Yd.
-0+88 " 5+35 " "	Curb	0.5'	2417 L.F.
-1+05± to 5+34± Rt.	Sidewalk	6'5.5'	35984 Sq. Yd.
" 32 " 43 " "	Curb	0.5'	2413 L.F.
-1+24± to 0+56± Lt.	Sidewalk	6'5.5'	10624 Sq. Yd.
43 " 36 " "	Curb	0.5'	175180 L.F.
0+56± to 2+33± Lt.	Sidewalk	6'5.5'	111717 Sq. Yd.
" 08 " 69 " "	Curb	0.5'	171882 L.F.
3+07± to 10+78± Lt.	Sidewalk	6'5.5'	4317509 Sq. Yd.
" 21 " 72 " "	Curb	0.5'	1516185 L.F.
5+82± to 10+78± Rt.	Sidewalk	6'5.5'	305331 Sq. Yd.
" 17 " 36 " "	Curb	0.5'	512 L.F.
11+20± to 14+56± Rt.	Sidewalk	6'5.5'	19668201 Sq. Yd.
" 20 " 67 " "	Curb	0.5'	344358 L.F.
11+21± to 13+82± Lt.	Sidewalk	6'5.5'	1301448 Sq. Yd.
" " 50 " "	Curb	0.5'	2703276 L.F.
14+45± to 17+46± Lt.	Sidewalk	Varies	2127243 Sq. Yd.
" 20 " " "	Curb	0.5'	3215338 L.F.
14+93± to 17+75± Rt.	Sidewalk	6'5.5'	17306181 Sq. Yd.
" 78 " " "	Curb	0.5'	2854284 L.F.
17+87± to 21+60± Lt.	Sidewalk	6'5.5'	20646201 Sq. Yd.
" " " "	Curb	0.5'	4083415 L.F.
18+16± to 23+62± Rt.	Sidewalk	6'	357 Sq. Yd.
" 66 " 84 " "	Curb	"	580 L.F.
22+70± to 26+91± Lt.	Sidewalk	6'5.5'	13837195 Sq. Yd.
18+20 " 75 " "	Curb	0.5'	432423 L.F.
24+12± to 26+74± Rt.	Sidewalk	6'5.5'	5278163 Sq. Yd.
" 52 " 79 " "	Curb	0.5'	858266 L.F.
27+50± to 28+83± Rt.	Sidewalk	6'5.5'	666175 Sq. Yd.
" " 64 " "	Curb	0.5'	1365140 L.F.
27+75± to 42+66± Lt.	Sidewalk	6'5.5'	62308808 Sq. Yd.
" 22 " 30 " "	Curb	0.5'	14661496 L.F.
43+66± to 44+63± Lt.	Sidewalk	Varies	73.76 72 Sq. Yd.
" 50 " 25 " "	Curb	0.5'	1533138 L.F.
44+49± to 45+29± Lt.	Sidewalk	6'5.5'	45.83 62 Sq. Yd.
" " " "	Curb	0.5'	75 112 L.F.

TRAFFIC ISLANDS:	ITEM	WIDTH	EST. QUANT.
1+75.97 to 2+30.45 Lt.	Concrete	Varies	54 sq. yd. 55.41
" " " "	Curb	"	147 lin. ft. 153
14+18.00 to 14+24.40 Lt.	Concrete	Varies	15 sq. yd. 18.24
" " " "	Curb	"	60 lin. ft. 70
14+78.78 to 14+81.27 Rt.	Concrete	Varies	7 sq. yd. 4.72
" " " "	Curb	"	30 lin. ft. 38.1
21+09.35 to 22+52.40 Lt.	Concrete	Varies	89 sq. yd. 82.22
" " " "	Curb	"	154 lin. ft. 151.7

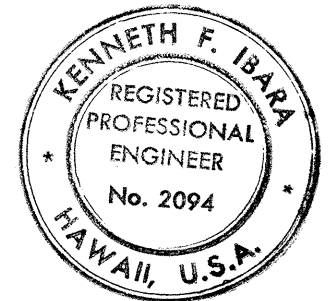
SUMMARY:

CONCRETE SIDEWALK = 3953.51

BED COURSE MATERIAL FOR SIDEWALK = 486 Cu. Yd.

CURB, TYPE 2D = 7513 Lin. Ft.

BED COURSE MATERIAL FOR CURB = 62 Cu. Yd.



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Kenneth F. Ibarra
Signature
7-30-73

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
KUKUI STREET
INTERSECTION

PROJ. No. 56A-01-74

SHEET No. 2 OF 5 SHEETS

Sta. 13+73± to 14+50± Lt.
Construct 1" AC Overlay (Mix No V)
EST. QUANTITIES: 19
A.C. Mix No V = 24 tons
Tack Coat = 147 gal.
Prime = 245.75
Exc. = 41.5 c.y.
Base Course = 54.17 c.y.
A.C. Mix No III = 37.29 Tons

Sta. 14+18 to 14+24.40 Lt.
Construct Concrete Traffic Island
4" Thick Reinforced With 6x6x6 Wire
Mesh Fabric And Type 2D Concrete
Curb All Around.
Est. Quantity: 18.24
Concrete = 15 sq. yd.
Curb, Type 2D = 60 L.F.
Bed Course Material for Curbing = 1 cu. yd.

Sta. 14+45± to 17+96± Lt.
Construct Conc. Sidewalk.
Width varies. For Quantities
See Schedule this Sheet.

Sta. 14+42± to 15+02± Rt.
Construct 1" Overlay AC (Mix No V)
EST. QUANTITIES: 6.6
A.C. Mix No V = 5 tons
Tack Coat = 37 gal.
Prime = 85.58
Exc. = (Fill)
Base Course = 12.01 c.y.
A.C. Mix No III = 13.34 Tons

Sta. 14+78.78 to 14+81.27 Rt.
Construct Concrete Traffic Island
4" Thick Reinforced With 6x6x6 Wire
Mesh Fabric And Type 2D Concrete
Curb All Around.
Est. Quantity: 4.72
Concrete = 7 sq. yd. 38.1
Curb, Type 2D = 30 L.F.
Bed Course Material for Curbing = 1 cu. yd.

Curve Data
Δ = 34° 08'
R = 400.0'
Ch = 234.79'
Lc = 238.30'
T = 122.80'

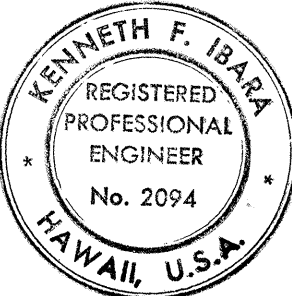
PLAN-KUKUI STREET INTERSECTION
Scale: 1"=20'

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED 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.	56A-01-74	1974	10	53

SCHEDULE FOR SODDING AND GRASSING AREAS	
BERMUDA (Cynodon dactylon)	
STATION	QUANTITY (Sq. Ft.)
-1+50± to -1+25± Rt.	400 171.0
-1+25± to 5+00± Rt.	9525 4377.5
5+00± to 1+50± Lt.	2609 3736.5
8+00± to 10+05± Lt.	6409 177.0
5+70± to 5+25± Rt.	270
11+00± to 13+00± Lt.	636 400.0
18+00± to 23+00± Rt.	7009 5343.0
21+50± to 21+65± Lt.	325
23+00± to 24+10± Lt.	1160
24+00± to 25+00± Rt.	5000 1420.0
24+30± to 25+20± Lt.	1050
25+40± to 26+35± Lt.	1825
26+45± to 26+75± Lt.	750
26+85± to 26+90± Lt.	75
25+90± to 26+00± Rt.	425 1520.0
27+50± to 28+00± Rt.	1200
27+80± to 28+35± Lt.	530
28+20± to 28+75± Rt.	1500
44+50± to 45+22± Lt.	268
TOTAL	41728 Sq. Ft. = 4637 Sq. Yd.
	17,345 1227.2

- NOTES:
- Minimum 2 inches topsoil material shall be provided for all grassing areas.
 - Topsoil shall not be paid for separately, but shall be considered incidental to grassed surfaces.
Est. Quantity:
Topsoil = 258 cu. yd.
107.1



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Kenneth F. Ibarra
Signature
7-30-73

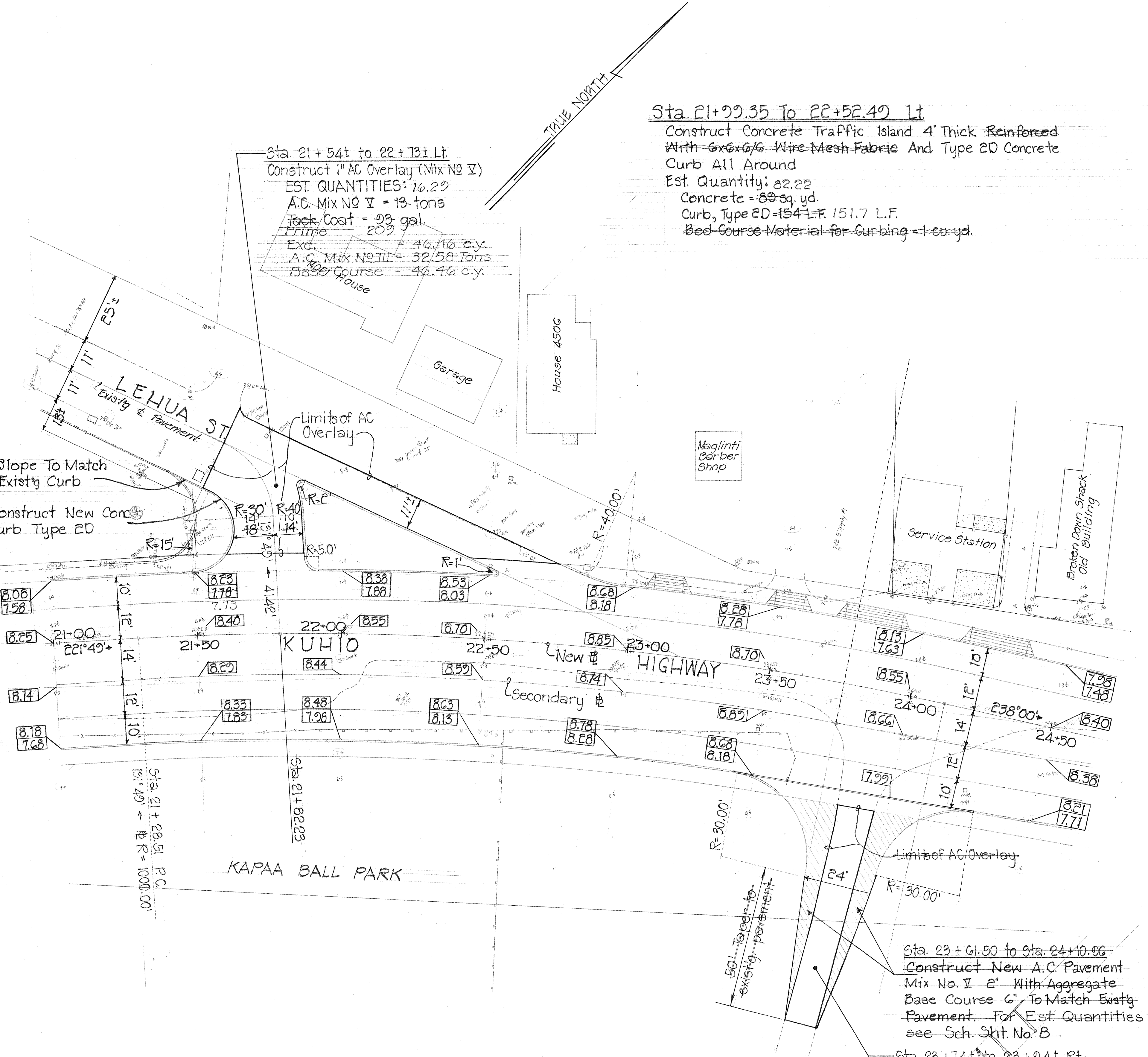
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
LEHUA STREET
INTERSECTION

PROJ. No. 56A-01-74

SHEET No. 3 OF 5 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
No.	



PLAN - LEHUA STREET INTERSECTION
Scale: 1"=20'

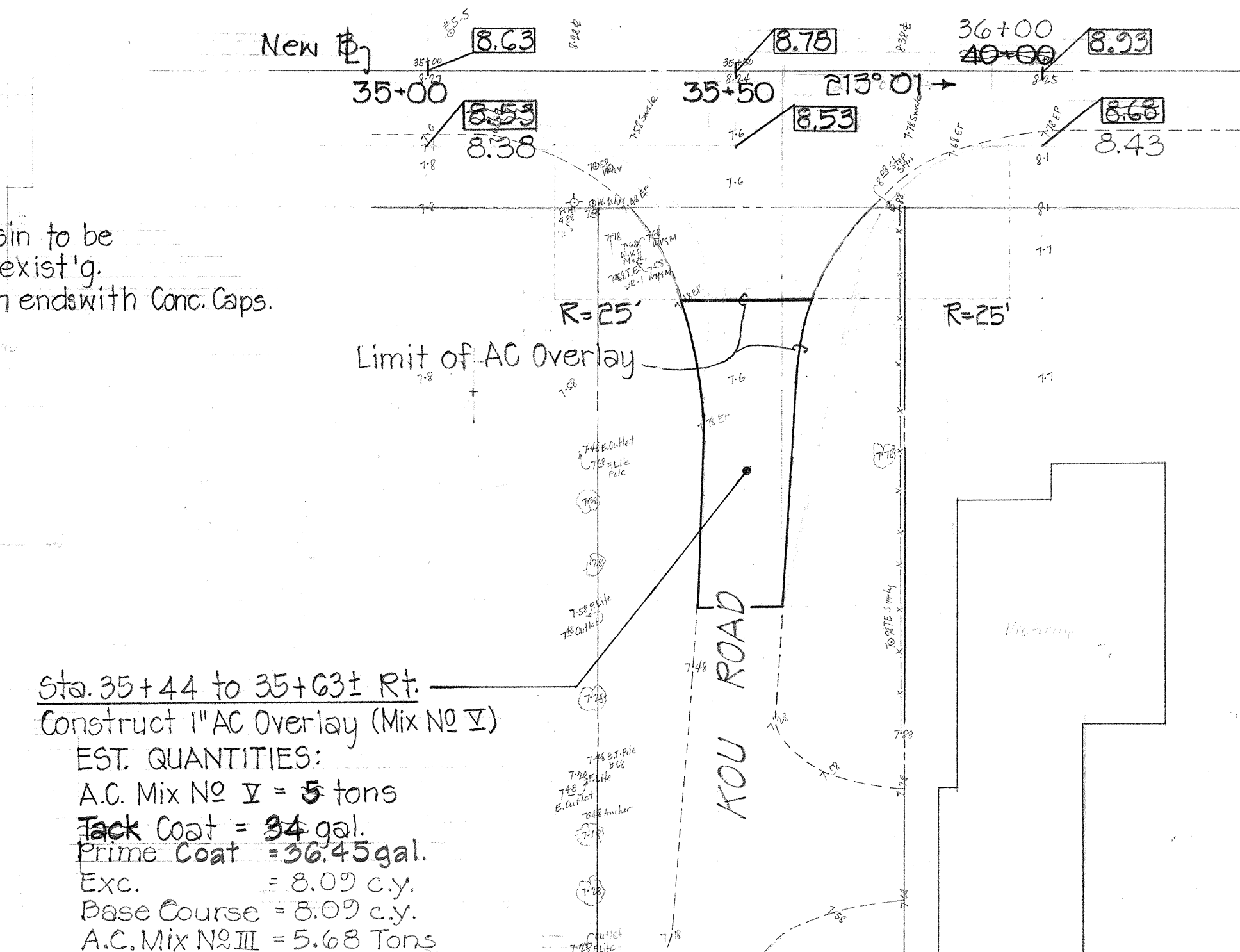
Sta. 21+22.35 To 22+52.42 Lt.
Construct Concrete Traffic Island 4" Thick Reinforced
With 6x6x6 Wire Mesh Fabric And Type 2D Concrete
Curb All Around
Est. Quantity: 82.22
Concrete = 82.22 cu. yd.
Curb, Type 2D = 154 L.F. 151.7 L.F.
Bed Course Material for Curbing = 1 cu. yd.

Sta. 21+54± to 22+73± Lt.
Construct 1" AC Overlay (Mix No. V)
EST. QUANTITIES: 16.22
A.C. Mix No. V = 16 tons
Tack Coat = 93 gal.
Prime = 202
Exc. = 46.46 c.y.
A.C. Mix No. III = 32.58 tons
Base Course = 46.46 c.y.

Slope To Match
Exstg. Curb
Construct New Conc.
Curb Type 2D

Sta. 23+01.50 to Sta. 24+10.06
Construct New A.C. Pavement
Mix No. V 2" With Aggregate
Base Course 6" To Match Exstg.
Pavement. For Est. Quantities
see Sch. Sht. No. 8
Sta. 23+74± to 23+04± Rt.
Construct 1" AC Overlay (Mix V)
EST. QUANTITIES:
A.C. Mix No. V = 6 tons
Tack Coat = 76 gal.

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
No. _____	CHECKED BY _____	" _____
	_____	_____



PLAN - KOU RD. INTERSECTION
Scale: 1" = 20'



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OR UNDER MY SUPERVISION

Kenneth F. Ibara
Signature
7-30-73

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

INIA ST., KAUWILA ST., AND
KOU RD. INTERSECTIONS

PROJ. No. 56A-01-74

SHEET No. 4 OF 5 SHEETS

