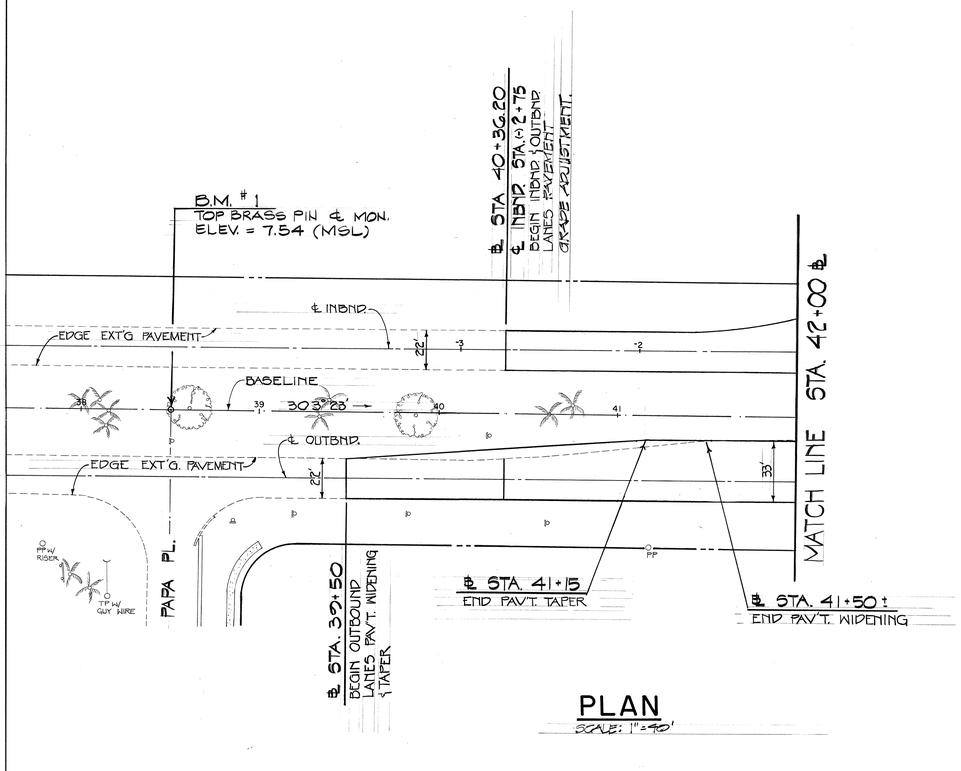
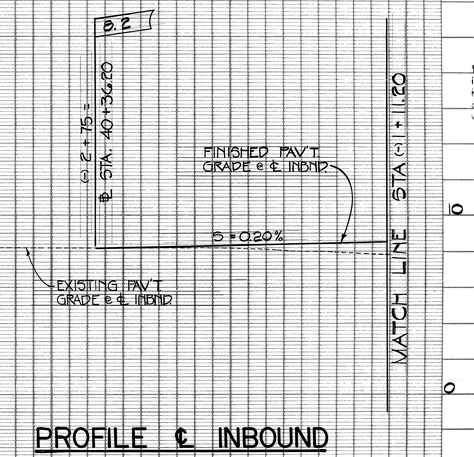


PLAN

SCALE: 1"=40'



PROFILE ℄ INBOUND

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

10/3/89

ROBERT T. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 1754-C
HAWAII, U.S.A.

R. T. TANAKA ENGINEERS, INC.
871 KOLU STREET, SUITE 201
WAILUKU, MAUI, HAWAII 96793

DSGN.	DRWN.	CHKD.	APPD.
R.H.	C.N.	R.T.T.	

KEY PLAN / NOTES :

NO. DATE REVISIONS

AS-BUILT (Record Drawing)

DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE
℄ STA. 39 + 50 to
℄ STA. 42 + 00

DATE : 11-15-89

DWG. NO. : C-9

℄ INBND STA. 0+00 =
℄ STA. 43+11.20 % 36.66' Lt. =
℄ DAIRY ROAD STA. 0+37.19
INSTALL ℄ & REFERENCE SURVEY MONUMENT

PROPOSED 3-14"x 23" RCP

BEGIN 6' WIDE PAVED SHOULDER

PROPOSED D.I. (BY A&B, INC.)

P.I. ℄ INBND STA. 1+15.29
℄ STA. 44+26.49 % 36.66' Lt.
INSTALL ℄ & REF. SURVEY MON.

PROPOSED DRAINAGE SYSTEM (BY A&B INC.) 30" RCP

℄ STA. 44+61.54 % 59.77' Lt.
END PAVEMENT TAPER

EXISTING POWER POLE (TYP.) SEE NOTE 2 AT LEFT.

NEW R/W

TOE OF FILL

EXTG. R/W

P.C. ℄ INBND STA. 2+27.68 =
℄ STA. 46+08.83 % 32.04' Lt.
INSTALL ℄ & REF. SURVEY MON.

℄ STA. 46+71.50 % 55.24 Lt.
BEGIN PAVEMENT TAPER

END 6' WIDE PAVED SHOULDER

℄ STA. 47+30
% 84' Lt.
BEGIN CONC. GUTTER
INV. = 6.8

P.T. ℄ INBND. STA. 5+01.30 =
℄ STA. 48+12.37 % 35.18 Lt.
INSTALL ℄ & REF. SURVEY MON.

BEGIN 10' WIDE PAVED SHOULDER

℄ STA. 48+50.68 % 49.36' Lt.
END PAVEMENT TAPER

TYPE G1G14 CONC. GUTTER

℄ STA. 49+20
% 92' Lt.
OUTLET "A" w/ TYPE "B" CONC. FLARED END SECTION
INV. = 5.5
SEE DETAILS, SHT. C-36

℄ STA. 49+52.49 % 67.49' Lt.
G.D.I. "A-1" (TYPE G1G14)
TOP = 9.34
INV. = 5.73

NOTE: PROVIDE BICYCLE SAFE GRATES ON ALL G.D.I.

DELETE TRANSITIONAL BERM

D24"

D24"

D24"

SEE PLAN & PROFILE SHEET C-34

℄ STA. 49+61.96 % 23.56' Lt.
G.I.2.1 "A-1A" (TYPE G1G14)
TOP = 10.14
INV. = 5.95

℄ STA. 49+37 % 34' Rt.
END METAL GUARDRAIL WITH BCT

EXISTING EMERGENCY ROAD

NOTE: PAVEMENT TO BE REMOVED ONLY UPON COMPLETION OF MAIN HIGHWAY IMPROVEMENTS OR WHEN APPROVED BY THE DIRECTOR. BACKFILL AND GRASS AREA UPON REMOVAL OF PAVEMENT. REMOVE PAVEMENT ALSO AT LAHAINA END OF EMERGENCY ROAD WITHIN THE DAIRY RD. EASEMENT. BACKFILL AND GRASS AS ABOVE.

MATCH LINE STA. 42+00 ℄

MATCH LINE STA. 50+00 ℄

303° 23' → 115.29

304° 50'

302° 30' → 203.57

300° 10'

303° 23'

300° 10' → 619.74

303° 23' → 81.65

EXT'G. GRASSED MEDIAN

EDGE EXT'G. PAVEMENT

EDGE EXT'G. PAVEMENT

4'x2' CONC. BOX CULVERT. SEE PLAN & PROFILE, SHT. C-34

℄ INBOUND

℄ OUTBOUND

6' WIDE PAVED SHOULDER

PROPOSED DRAIN INLET

24" RCP

TOE OF FILL

TOE OF FILL

BEGIN 6' WIDE PAVED SHOULDER @ P.C.R.

PROPOSED DRAINAGE SYSTEM (BY A&B INC.)

℄ STA. 44+38.58 % 59.77' Rt.
BEGIN METAL GUARDRAIL W/BCT

SEE DETAIL PLAN SHEET C-34

℄ STA. 47+25.
% 69.91' RT.
R = 75.00'

℄ STA. 48+21 ±
REPLACE EXISTING CONC. DRIVEWAY (18'± WIDE) SEE PROFILE SHT. C-31 (PRIVATE ACCESS FOR PACIFIC MACHINERY) CONTRACTOR TO COORDINATE WORK SCHEDULE W/ PACIFIC MACHINERY BEFORE WORK START.

℄ STA. 48+78.17
% 47.13' Rt.
R = 75.00

SHOULDER WIDENING TYPE "A" PAVEMENT

℄ STA. 49+54.8
% 23.5' Lt.
BEGIN CONC. GUTTER

D20"x 18"

214°50'

241°41'18"

L=2'

10'

10'

10'

20'

INTERSECTION
℄ STA. 43+17.46 =
℄ DAIRY ROAD STA. 0+00
SEE DETAIL PLAN, SHT. C-23

INTERSECTION ℄ OUTBND
℄ STA. 43+23.56 % 35.77' Rt.
℄ DAIRY ROAD STA. 0+36.99

P.I. ℄ OUTBND
℄ STA. 44+05.21 % 35.77' Rt.

DAIRY ROAD ℄ SEE SHEET C-34 FOR PLAN & PROFILE

PLAN
SCALE: 1" = 40'
40 30 20 10 0 40 80
GRAPHIC SCALE

CURVE DATA

No.	R	Δ	Lc	T	C
①	75.00	36°52'18"	48.26	25.00	47.43
②	5.00	143°07'48"	12.49	15.00	9.49
③	75.00	20°54'18"	35.22	17.94	34.90
C-1	2,500.00	4°40'	203.62	101.87	205.57

NOTE:
1. REMOVE ALL EXISTING PAVEMENT WITHIN NEW GRASSED ISLANDS AND MEDIANS. SEE DEMO. NOTES #10, SHEET C-3.
2. ALL EXISTING POWER POLES ON THE INBOUND SIDE WILL BE RELOCATED BY UTILITY COMPANIES. SEE SHT. C-3 FOR POLE RELOCATION NOTE.

MATCH LINE STA. -1+11.20

STA. 0+00 ℄ STA. 43+11.20

STA. 1+00

INTERSECTION 8.72

P.I. 8.22

P.I. 9.65

P.I. 9.65

STA. 3+50

STA. 5+50

STA. 7+00

MATCH LINE STA. 7+00

S = 0.20 %

S = 0.20%

S = 0.29%

S = 0%

S = 4.6%

EXISTING PAVT. GRADE ALONG ℄ INBOUND

FINISH GRADE ALONG ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

STA. 3+38.50 = ℄ STA. 4+6.50

BOX CULVERT 6.00

CB A-1A 5.95

CB A-1 5.73

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'
40 30 20 10 0 40 80
4 3 2 1 0 4 8
GRAPHIC SCALE

-2 -1 0 1 2 3 4 5 6 7

20 10 0

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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KEY PLAN / NOTES :

NO.	DATE	REVISIONS
⚠	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT G.D.I.'s & REPLACED TYPE "B" SHOULDER PAVT. W/ TYPE "A"

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE
℄ Sta. 42 + 00 to
℄ Sta. 50 + 00

DATE : 11-15-89

DWG. NO. : C-10

℄ STA. 51+80.09, 55.85' Lt.=
P.C. ℄ INBND. STA. 8+09.60
INSTALL ℄ REF. SURVEY MON.

R/W FOR PROPOSED AIRPORT ACCESS ROAD.

BEGIN NEW FIELD ROAD @ ℄ STA. 50+00 ± Rt.

℄ STA. 52+09.37
90 81.30 Lt.
GRATED DROP INLET (G.D.I.) "A-2" TYPE G1G14
TOP = 10.90
INV. = 6.73

℄ STA. 53+18.08, 59.00' Lt.=
P.C. ℄ INBND. STA. 10+07.65
INSTALL ℄ REF. SURVEY MON.

DETENTION BASIN SEE GRADING PLAN SHEET C-35

℄ STA. 56+11.94
90 183.00' Lt.
OUTLET "B"
INV. = 10.0

℄ STA 58+63.22, 83.00' Lt
G.D.I. "B-1C
TOP = 20.51
INV. = 15.61

℄ INBOUND
℄ 90 59.00' Lt.

CONSTRUCT NEW 10' WIDE FIELD ROAD. SEE TYPICAL SECTION, SHT. C-38

℄ STA. 53+75.86
90 47.00' Lt.
BEGIN PAVEMENT TAPER

SEE SHT C-35 FOR PLAN & PROFILE

10' WIDE SHOULDER W/ TYPE "A" PAVT.

NEW R/W LINE

℄ STA. 55+60
TOE OF FILL SLOPE

℄ STA. 56+11.94 90 83.00' Lt
G.D.I. B-1D
TOP = 16.17
INV. = 10.61

OLD R/W LINE

TYPE G1G14 CONC. GUTTER

10' WIDE SHOULDER W/ TYPE "A" PAVEMENT

REMOVE & DISPOSE EXISTING TREES (TYP.)

24" RCP (CL. IV)
44' @ S = 0.5%

℄ STA. 52+11.17
90 37.34 Lt.
G.D.I. "A-3" TYPE G1G14
TOP = 11.70
INV. = 6.95

TOE OF SLOPE

EDGE EXISTING PAVEMENT & 1½" A.C. OVERLAY

EDGE PAVED SHOULDER

℄ HANA HIGHWAY

SHOULDER WIDENING W/ TYPE "A" PAVEMENT

SHOULDER WIDENING W/ TYPE "A" PAVEMENT

℄ STA. 52+72.31, 59.00' Lt.=
P.T. ℄ INBND. STA. 9+81.88
INSTALL ℄ REF. SURVEY MON.

℄ STA. 57+00, 23.00' Rt.
BEGIN PAVEMENT TAPER

℄ STA. 56+97.42, 90 35.00' Lt.
END PAVEMENT TAPER

℄ STA. 58+80 90 35.00' Rt.
END PAVEMENT TAPER

℄ OUTBOUND
℄ 90 1.00' Rt.

℄ STA. 50+23.98 90 1.00' Rt
P.I. ℄ OUTBOUND

℄ STA. 52+85 ±
END PAVEMENT GRADE ADJUSTMENT. BEGIN 1½" A.C. OVERLAY.

℄ STA. 56+11.94 90 30.42' Lt.
G.D.I. B-1E
TOP = 17.57
INV. = 11.66

NOTE: PROVIDE BICYCLE SAFE GRATES ON ALL G.D.I.

DELETE GUTTER TRANSITIONAL BERM AT G.D.I. A-2, A-3, B-1C B-1D & B-1E

REMOVE EXISTING PAVEMENT STRUCTURE. BACKFILL PER. SPECS. AND GRASS.

EXISTING EMERGENCY ROAD SEE NOTE ON SHT. C-10 FOR PAVEMENT REMOVAL.

MATCH LINE STA. 50+00 ℄

MATCH LINE STA. 61+00 ℄

18,800 N

5200 S

5600 S

18,400 W

18,000 W

PLAN

SCALE: 1" = 40'

40 30 20 10 0 40 80
GRAPHIC SCALE

CURVE DATA

No.	DESCRIPTION	R	Δ	Lc	T	C
A-1	BASELINE	11459.16	26°48'	5360.00	2729.96	5311.27
B-1	℄ OUTBOUND	11460.16	26°48'	5360.47	2730.20	5311.74
C-2	℄ INBOUND	11400.16	26°48'	5332.40	2715.70	5283.93
C-1A	℄ INBOUND	2000.00	03°13'	112.28	56.16	112.27

P.I. 23.53

STA. 17+00

STA. 13+00
℄ STA. 56+11.94

FINISH GRADE ALONG ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

S = 1.45%

S = 1.50%

S = 0.46%

B.V.C. 10.69

P.I.V.C. 11.16

E.V.C. 12.066

V.C. = 200'

STA. 7+75

STA. 8+75
P.O.C. = 11.41

STA. 9+75

24" RCP, CL. IV
250' @ S = 0.40

STA. 9+00
6.73 G.D.I. A-2
6.95 G.D.I. A-3

24" RCP, CL. IV
250' @ S = 1.77%

30" RCP, CL. IV
250' @ S = 1.60%

STA. 15+50
℄ STA. 58+63.22

STA. 18+00
℄ STA. 61+4.50

11.66 G.D.I. B-1E
10.61 G.D.I. B-1D

G.D.I. B-1C
15.61

G.D.I. B-1B
20.51

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

PROFILE ℄ INBOUND

SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'

40 30 20 10 0 40 80
4 3 2 1 0 4 8
GRAPHIC SCALE

7 8 9 10 11 12 13 14 15 16 17 18

30 20 10

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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10/3/89

ROBERT T. TANAKA
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KEY PLAN / NOTES :

⚠	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT G.D.I.'s & REPLACED TYPE "B" SHOULDER PAVT W/ TYPE "A"

NO. DATE REVISIONS

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 50 + 00 to ℄ Sta. 61 + 00

DATE : 11-15-89

DWG. NO. : C-11

℄ STA. 63+50 % 59.00' Lt. =
℄ INBND STA. 20+34.28
INSTALL ℄ & REF. SURVEY MON.

℄ STA. 65+16.64 % 83.00' Lt.
G.D.I. "B-2" (TYPE G1G14)
TOP = 30.01
INV. = 25.38

℄ STA. 69+32.81 % 47.00' Lt
END PAVEMENT TAPER

EXISTING FIELD ROAD

R/W FOR PROPOSED AIRPORT ACCESS ROAD.

EDGE EXISTING CANE HAUL ROAD

EDGE NEW PAVEMENT

℄ STA. 66+67.42 Lt.
CONSTRUCT 12' WIDE PAVED CONNECTION TO NEW FIELD ROAD. SEE TYPICAL PLAN, SHEET C-28 FOR PROFILE SEE SHEET C-30

℄ STA 71+84.78 % 120.00' Lt
END CONC. GUTTER

℄ INBOUND
℄ STA 69+00 Lt.

℄ STA. 61+14.53
% 83.00' Lt.
G.D.I. "B-1B" (TYPE G1G14)
TOP = 24.21
INV. = 20.23

℄ STA. 63+65.78
% 83.00' Lt.
G.D.I. "B-1" (TYPE G1G14)
TOP = 27.84
INV. = 23.16

CONSTRUCT NEW 10' WIDE FIELD ROAD & CONNECT TO EXISTING FIELD ROAD SEE TYPICAL CANEFIELD SECTION, SHT. C-32

10' WIDE SHOULDER W/ TYPE "A" PAV'T.

TOP OF CUT SLOPE

TYPE G1G14 CONC. GUTTER

5,600 S

MATCH LINE STA. 61+00 ℄

SHOULDER WIDENING W/ TYPE "A" PAV'T.

TYPE G1G14 CONC. GUTTER

EXISTING 24" RCP (ABANDONED IRRIG. LINE)

OLD R/W LINE

EXISTING POWER POLE TO BE RELOCATED (BY MECO)

EDGE EXISTING PAVEMENT & 1½" A.C. OVERLAY.

EXTENDED GUARDRAIL

℄ STA. 64+80, 0/S 48' Rt.
BEGIN METAL GUARD-RAIL W/ TYPE "F" FLARE

25' MIN.

EXISTING R/W

℄ STA. 67+50

REMOVE & DISPOSE OF EXISTING TREES (TYP.)

℄ OUTBOUND
℄ % 1.00' Rt.

EDGE PAVED SHOULDER

℄ STA. 71+50, 0/S 40' Rt.
END METAL GUARD RAIL W/ TYPE "F" FLARE IN CUT SLOPE

12' MIN.

REMOVE EXISTING PAVEMENT STRUCTURE, BACKFILL PER SPECS. & GRASS.

4'-0" O/S

14'-0"

B.C.T. (37.22)

R=54'

B.C.T. SECTION

6'-0"

37'-6"

14'-0"

METAL GUARDRAIL

℄ STA. 64+01.00
0/S 22.65' Lt.
G.D.I. "B-1A" (TYPE G1G14)
TOP = 29.50
INV. = 23.86

NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

APPROX. LOCATION OF NEW STREET LIGHT, WOODEN POLES (TYP. OF 4)

℄ STA. 67+60 % 35.00' Lt.
BEGIN PAVEMENT TAPER

℄ STA. 67+67.92, % 83.00' Lt.
G.D.I. "B-3" (TYPE G1G14)
TOP = 33.66
INV. = 29.08

NEW R/W

℄ STA. 69+50
% 45.5' Rt.
BEGIN METAL GUARD-RAIL W/ TYPE "C" FLARE IN CUT SLOPE

SHOULDER WIDENING W/ TYPE "A" PAV'T.

℄ STA. 70+19.25, % 83.00 Lt.
G.D.I. "B-4" (TYPE G1G14)
TOP = 37.41
INV = 32.78

℄ STA 70+00, % 35.00' Rt
BEGIN PAVEMENT TAPER

℄ STA. 67+20±, 0/S 46' Rt.
END METAL GUARD RAIL W/ BCT

NOTE: SEE ℄ CURVE DATA ON SHT. C-11

PLAN
SCALE: 1" = 40'
40 30 20 10 0 40 80
GRAPHIC SCALE

5,600 S

MATCH LINE STA. 72+00 ℄

17,600 N

17,200 N

EXISTING PULEHU ROAD R/W

⚠ DELETE GUTTER TRANSITIONAL BERM AT G.D.I. B-1B, B-1, B-2, B-3 & B-4.

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

MATCH LINE STA. 18+00 ℄ INBOUND

MATCH LINE STA. 29+00 ℄ INBOUND

G.D.I. B-1B
20.03 INV.

STA. 18+00 = ℄ STA. 61+14.53

STA. 20+50 = ℄ STA. 63+65.78

STA. 22+00 = ℄ STA. 65+16.64

STA. 24+00

STA. 24+50 = ℄ STA. 67+67.92

STA. 27+00 = ℄ STA. 70+19.25

STA. 27+75

P.I. 33.68

P.I. 39.30

G.D.I. B-1
23.16

G.D.I. B-2
25.38

G.D.I. B-3
29.08

G.D.I. B-4
32.78

EXISTING GROUND ALONG ℄ INBOUND

FINISH GRADE ALONG ℄ INBOUND

S = 1.50%

S = 1.884%

24" RCP CL. IV
150' @ S = 1.25%

24" RCP CL. IV
150' @ S = 1.46%

24" RCP CL. IV
250' @ S = 1.46%

24" RCP CL. IV
233.66' @ S = 1.23%

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'
40 30 20 10 0 40 80
4 3 2 1 0 4 8
GRAPHIC SCALE

20 19 20 21 22 23 24 25 26 27 28 29

61+00 to 72+00

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10/3/89

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KEY PLAN / NOTES :

NO.	DATE	REVISIONS
⚠	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT GDIs & REPLACED TYPE "B" SHOULDER PAVT. W/ TYPE "A"

AS-BUILT (Record Drawing)
DATE 7/12/91

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HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 61 + 00 to ℄ Sta. 72 + 00

DATE : 11-15-89

DWG. NO. : C-12

℄ STA. 72+40.93 % 120.00' Lt.
BEGIN CONCRETE GUTTER

RIGHT OF WAY FOR PROPOSED AIRPORT ACCESS ROAD.

℄ STA. 72+54.03 % 27.50 Lt.
G.D.I. "B-5" (TYPE G1G1G)
TOP = 40.90
INV. = 35.65

CONNECT TO EXISTING CONC. DITCHES. SEE TYPICAL DITCH CONNECTION, SHEET C-28

NEW CONC. DITCH SEE TYPICAL SECTION DETAIL, SHT. C-37

℄ STA. 73+27± % 147' Lt.

EXISTING CONC. DITCH

42" RCP SIPHON EXTENSION

TOP OF CUT SLOPE

℄ STA. 76+02 ± % 147' Lt.
SIPHON OUTLET BOX "A"
SEE DETAILS, SHT. C-37

℄ STA. 77+80 % 83' Lt.
BEGIN PAV'T. TAPER

℄ INBOUND
℄ % 59.00' Lt.

℄ STA. 79+60 % 71' Lt.
END PAV'T. TAPER

MIDDLE MARKER BUILDING SITE.
SEE SITE PLAN DETAIL SHT. C-28
SEE ELECTRICAL PLANS FOR SERVICE MODIFICATIONS AND POLE RELOCATIONS.

NEW R/W LINE

TYPE G1G1G CONC. GUTTER

C2

20' LONG GUTTER TRANSITION

RETAINING WALL

REMOVE EXT'G. PAVEMENT

OLD R/W LINE

MANHOLE (ELECTRICAL)

REMOVE EXISTING PAVEMENT

17.00'

BASELINE

BASELINE

℄ OUTBOUND (℄ % 1.00' Rt.)

A-1

B-1

EDGE EXISTING PAVEMENT
℄ 1½" A.C. OVERLAY

TYPE G1G1A CONC. GUTTER

℄ STA. 76+50

EDGE PAVED SHOULDER

EXISTING R/W LINE

MATCH LINE STA. 72+00

MATCH LINE STA. 83+00

℄ STA. 72+50
CANEHAUL ROAD CROSSING
SEE DETAIL PLAN, SHEET C-20

℄ STA. 72+52.86 % 38.00' Lt.
BEGIN CONCRETE GUTTER

℄ STA. 72+23.15 % 39.00' Lt.
END CONCRETE GUTTER

℄ STA. 72+66.98
% 38.00' Lt.
G.D.I. "B-6" (TYPE G1G1G)
TOP = 42.39
INV. = 36.87

NOTE: PROVIDE BICYCLE SAFE GRATES ON ALL G.D.I.

℄ STA. 76+02 ±
EXTEND EXISTING 36"ϕ IRRIGATION SIPHON. SEE PLAN & PROFILE SHT. C-32

SHOULDER WIDENING W/ TYPE "A" PAVEMENT

NOTE: SEE ℄ CURVE DATA ON SHT. C-11

G 400 S

G 800 N

G 400 W

G 000 W

PLAN
SCALE: 1" = 40'
40 30 20 10 0 40 80
GRAPHIC SCALE

41.8

P.I. 45.54

P.I. 48.22

STA. 33+00

STA. 29+00 ℄ INBOUND

STA. 29+11.33 C.H.R. CROSSING

STA. 30+00

STA. 72+54.03 ℄ G.D.I. B-5

STA. 72+66.98 ℄ G.D.I. B-6

EXISTING GROUND ALONG ℄ INBOUND

S = 1.714%

FINISH GRADE ALONG ℄ INBOUND

S = 1.564%

S = 1.884%

42" RCP IRRIG. SYSTEM

24" RCP CL. IV
60.8' @ S = 2.00%

G.D.I. B-5
35.65

G.D.I. B-6
36.87

MATCH LINE STA. 29+00 ℄ INBOUND

MATCH LINE STA. 40+00 ℄ INBOUND

60
50
40

29 30 31 32 33 34 35 36 37 38 39 40

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'
40 30 20 10 0 40 80
4 3 2 1 0 4 8
GRAPHIC SCALE

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND

72+00 to 83+00

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

10/2/89

ROBERT T. TANAKA
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R.H.	C.N.	R.T.T	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	REPLACED TYPE "B" SHOULDER PAVT W/ TYPE "A"

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

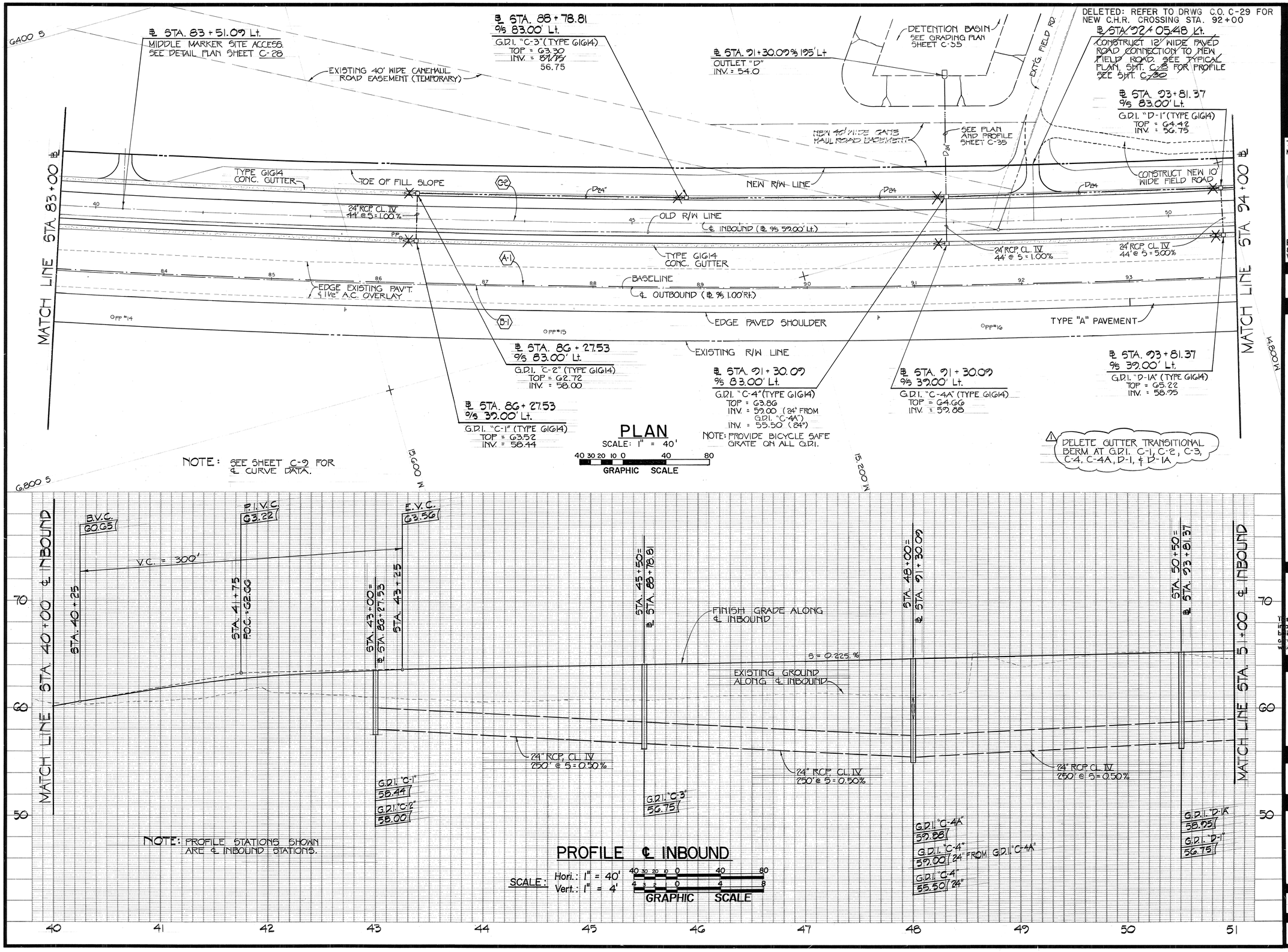
SHEET TITLE :

PLAN & PROFILE

℄ Sta. 72 + 00 to ℄ Sta. 83 + 00

DATE :
11-15-89

DWG. NO. :
C-13



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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10/7/91

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KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT G.D.I.S

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 83 + 00 to ℄ Sta. 94 + 00

DATE : 11-15-89

DWG. NO. : C-14

℄ STA. 97 + 33.20 Lt.
CONSTRUCT 12' WIDE PAVED ROAD CONNECTION TO EXISTING AND NEW FIELD ROADS. SEE TYPICAL PLAN, SHT. C-8 FOR PROFILE SEE SHT. C-30

CONSTRUCT NEW 10' WIDE FIELD ROAD

EXISTING FIELD ROAD

NEW R/W

℄ STA. 98 + 83.98
℄s 83.00' Lt.
G.D.I. "D-3" (TYPE G1G14)
TOP = 65.55
INV. = 59.25

℄ INBOUND
℄ s 59.00' Lt.

NEW CONC. LINED DITCH

EXISTING UNLINED DITCH

EXISTING UNLINED DITCH

CONNECT TO EXISTING DITCH (TYP.) SEE DETAILS, SHT. C-38

EXISTING UNLINED DITCH

CONSTRUCT NEW 10' WIDE FIELD ROAD

6800 S

MATCH LINE STA. 94+00 ℄

TYPE G1G14 CONC. GUTTER

TOE OF FILL SLOPE

D24"

24" RCP CL. IV 44' @ S = 2.00%

C-2

TOE OF FILL SLOPE

TOP OF CUT SLOPE

D24"

OLD R/W

TYPE "A" PAVEMENT

TYPE G1G14 CONC. GUTTER

24" RCP CL. IV 44' @ S = 2.00%

95 96 97 98 99 100 101 102 103 104

TYPE "A" PAVEMENT

EDGE EXISTING PAV'T & 1½" A.C. OVERLAY.

A-1

B-1

BASELINE

℄ OUTBOUND (℄ s 1.00' Rt.)

EDGE PAVED SHOULDER

EXISTING R/W

OPP #17

OPP #18

PP #19

MATCH LINE STA. 105+00 ℄

℄ STA. 96 + 32.65
℄s 83.00' Lt.
G.D.I. "D-2" (TYPE G1G14)
TOP = 64.22
INV. = 58.00

℄ STA. 98 + 83.98
℄s 39.00' Lt.
G.D.I. "D-3A" (TYPE G1G14)
TOP = 66.35
INV. = 60.13

NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

⚠ DELETE GUTTER TRANSITIONAL BERM AT G.D.I. D-2, D-3, D-3A D-4, D-5 & D-5A

℄ STA. 101 + 35.26
℄s 83.00' Lt.
G.D.I. "D-4" (TYPE G1G14)
TOP = 66.26
INV. = 60.50

℄ STA. 103 + 86.54
℄s 83.00' Lt.
G.D.I. "D-5" (TYPE G1G14)
TOP = 67.01
INV. = 61.75

℄ STA. 103 + 86.54 =
℄s 39.00' Lt.
G.D.I. "D-5A" (TYPE G1G14)
TOP = 67.75
INV. = 62.63

PLAN
SCALE: 1" = 40'
40 30 20 10 0 40 80
GRAPHIC SCALE

NOTE: SEE SHEET C-9 FOR CURVE DATA

14800 N

14400 N

7200 S

14000 N

NOTE:
PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

MATCH LINE STA 51+00 ℄ INBOUND

70

60

℄ STA. 53+00
℄ STA. 96+32.65

℄ STA. 55+50
℄ STA. 98+83.98

P.I. G6493

STA. 56+00

℄ STA. 58+00
℄ STA. 101+35.26

℄ STA. 60+50
℄ STA. 103+86.54

MATCH LINE STA 62+00 ℄ INBOUND

FINISH GRADE ALONG ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

S = 0.225 %

S = 0.30 %

24" RCP CL. IV 250' @ S = 0.50%

24" RCP CL. IV 250' @ S = 0.50%

24" RCP CL. IV 250' @ S = 0.50%

24" RCP CL. IV 250' @ S = 0.50%

24" RCP CL. IV 250' @ S = 0.50%

G.D.I. "D-2" 58.00

G.D.I. "D-3A" 60.13

G.D.I. "D-3" 59.25

G.D.I. "D-4" 60.50

G.D.I. "D-5A" 62.63

G.D.I. "D-5" 61.75

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'
40 30 20 10 0 40 80
4 3 2 1 0 4 8
GRAPHIC SCALE

51 52 53 54 55 56 57 58 59 60 61 62

94+00 to 105+00

STATE OF HAWAII 1959

Airports Division
DEPARTMENT OF TRANSPORTATION STATE OF HAWAII

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10/3/89

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KEY PLAN / NOTES :

NO.	DATE	REVISIONS
⚠	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT G.D.I.S.

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 94 + 00 to ℄ Sta. 105 + 00

DATE : 11-15-89

DWG. NO. : C-15

℄ STA 105+37.82
9/S 83.00' Lt.
G.D.I. "D-6" (TYPE G1G14)
TOP = G7.76
INV. = G3.00

EXISTING UNLINED DITCH

NEW CONC. DITCH

CONNECT TO EXISTING DITCHES (TYP.)

EXISTING CONC. DITCH

OUTLET BOX "B"
SEE DETAILS, SHT. C-37

℄ OUTBOUND R=1959.04

P.C.=℄ STA. 115+85.15
℄ RAD. = 1909.86

℄ STA. 116+26.86 % 58.56' Lt. =
P.C. ℄ INBND STA. 66+36.58
RAD = 1737.60
INSTALL ℄ & REF. SURVEY MON.

No.	DESCRIPTION	R	Δ	Lc	T	C
A-2	BASELINE	1909.86	62° 06'	2070.00	1149.83	1970.16
B-2	℄ OUTBND. PAV'T.	1959.04	25° 02'44"	856.35	435.13	849.55
C-3	℄ INBND PAV'T.	1737.60	19° 38'44"	595.79	300.85	592.87

℄ STA. 121+04.04
9/S 76.33 Lt. 77+33 Lt.
G.D.I. "E-4" (TYPE G1G1G)
TOP = 70.81 70.40
INV. = G4.30

CONNECT NEW CONC. DITCH TO EXISTING CONC. DITCH

CONNECT NEW DITCH TO EXT'G.

CONSTRUCT NEW 10' WIDE FIELD ROAD

CONSTRUCT NEW UNLINED DITCH (℄ DITCH SHOWN) SEE TYPICAL SECTION, SHEET C-38

℄ STA. 118+28.20 Lt.
CONSTRUCT 12' WIDE PAVED ROAD CONNECTION TO NEW FIELD ROAD SEE PROFILE SHT. C-36

℄ STA. 117+33.24 9/S 44.49 Lt.
BEGIN PAVEMENT TAPER

MATCH LINE STA. 105+00 ℄

TOP OF CUT SLOPE

P.T. STA. 103+78.08 (EQ)
P.T. STA. 113+29.05

NEW R/W LINE

TYPE "A" PAVEMENT

24" RCP CL. IV
44' @ S = 0.50%

℄ INBOUND 276° 35'

TYPE G1G14 CONC. GUTTER

OLD R/W LINE

EDGE EXISTING PAV'T. & 1½" A.C. OVERLAY

BASELINE

℄ OUTBOUND 276° 35'

EDGE PAVED SHOULDER

TOE OF FILL SLOPE

TYPE G1G1G CONC. GUTTER

P.I. PARABOLA
℄ STA. 121+33 9/S 6'
FROM EDGE SHOULDER

TYPE G1G14 CONC. GUTTER

℄ OUTBOUND

BASELINE

MATCH LINE STA. 121+50 ℄

℄ STA. 115+62.64
9/S 1.00' Rt.
P.C. ℄ OUTBOUND

℄ STA. 115+00 9/S 43' Rt.
BEGIN METAL GUARDRAIL W/ TYPE "C" FLARE IN CUT SLOPE

℄ STA. 115+85
EXTEND EXISTING 36"ϕ IRRIGATION SYPHON, SEE PLAN & PROFILE, SHT. C-32

℄ STA. 116+00±
9/S 38.5 Rt.
END METAL GUARDRAIL W/ TYPE "F" FLARE IN CUT SLOPE

℄ STA. 115+69.00
9/S 83.00' Lt.
G.D.I. "E-2" (TYPE G1G14)
TOP = G9.14
INV. = G5.60

℄ STA. 115+69.00
9/S 39.00' Lt.
G.D.I. "E-1" (TYPE G1G14)
TOP = G9.94
INV. = G5.82

℄ STA. 118+36.82
9/S 78.85' Lt.
G.D.I. "E-3" (TYPE G1G14)
TOP = ~~G9.76~~ 69.72
INV. = G4.95
NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

℄ STA. 119+50
END GRASSED MEDIAN & CONC. GUTTER AND BEGIN PAVED MEDIAN.

NEW GUARDRAIL BEGIN B.C.T.
℄ STA. 120+70.8 ±

℄ STA. 121+40±
CONNECT NEW PAVED SHOULDER TO EXISTING PAVEMENT.

END B.C.T.
℄ STA. 121+08 9/S 8'
FROM EDGE SHOULDER

MATCH LINE STA. 121+50 ℄

PLAN
SCALE: 1" = 40'
GRAPHIC SCALE 40 30 20 10 0 40 80

DELETE GUTTER TRANSITIONAL BERM AT G.D.I. D-6, E-1, E-2, E-3, E-4

MATCH LINE STA 62+00 ℄ INBOUND

STA. 63+00 ℄ STA. 100+37.82

STA. 64+00
P.I. 68.83

STA. 65+80±
℄ STA. 115+28.57

STA. 66+00
P.I. 70.03

STA. 68+40
℄ STA. 118+36.82

STA. 71+00
℄ STA. 121+04.04

MATCH LINE STA 72+00 ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

FINISH GRADE ALONG ℄ INBOUND

S = 0.20 %

S = 0.60%

S = 0.26 %

42" IRRIG. SYPHON

24" RCP CL IV
250' @ S = 0.50 %

24" RCP CL IV
260' @ S = 0.25%

24" RCP CL IV
260' @ S = 0.25%

G.D.I. "D-6"
G3.00

G.D.I. "E-1"
G5.82

G.D.I. "E-2"
G5.60

G.D.I. "E-3"
G4.95

G.D.I. "E-4"
G4.30

NOTE:
PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40' GRAPHIC SCALE 40 30 20 10 0 40 80
Vert.: 1" = 4' 4 3 2 1 0 4 8

80 70 60

G2 G3 G4 G5 G6 G7 G8 G9 70 71 72 73

105+00 to 121+50

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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10/3/89

ROBERT T. TANAKA
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KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	DELETED GUTTER TRANSITIONAL BERMS AT G.D.I.S

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 105+00 to ℄ Sta. 121+50

DATE : 11-15-89

DWG. NO. : C-16

CONSTRUCT NEW UNLINED DITCH (℄ DITCH SHOWN)

CONSTRUCT NEW 10' WIDE FIELD ROAD

END UNLINED DITCH. VERIFY IN FIELD.

STA. 122+40 % 52.00' Lt. INSTALL ℄ INBOUND P.C.C. STA. 72+32.37 REF. SURVEY MON.

℄ STA. 124+34.7± END METAL GUARDRAIL

℄ STA. 123+71.19 % 83.00' Lt. D.M.H. "E-1" (TYPE "F") TOP = 71.33 INV. = 63.65

R = 1737.60 R = 1857.86

R = 1959.04 R = 1905.86

EXTG. FIELD ROAD

KALIALINUI GULCH

℄ STA. 126+09 % 85.00' Lt. END METAL GUARD RAIL FLARE

℄ STA. 126+17.91 % 83.00' Lt. D.M.H. "F-1" (TYPE "F") TOP = 70.53 INV. = 62.51

RECONNECT TO EXT'G. IRRIGATION LINE

EXTG. FIELD ROAD

EXTG. FIELD RD

RECONNECT TO EXT'G. IRRIGATION LINE

NEW LOCATION OF IRRIGATION LINE (36" MIN. COVER)

No.	DESCRIPTION	R	Δ	Lc	T	C
B-3	℄ OUTBOUND PAV'T.	1905.86	37°03'16"	1232.56	638.70	1211.19
C-4	℄ INBOUND PAV'T.	1857.86	32°24'	1050.60	539.76	1036.65

℄ CURVE DATA

NOTE: SEE SHEET C-16 FOR CURVES A-2, B-2 & C-3

℄ STA. 131+31.90 % 76.00' Lt. 77.00 Lt.
G.D.I. "F-2" (TYPE G1G1G) TOP = 68.20 68.03 INV. = 63.76
NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

CONSTRUCT NEW 10' WIDE FIELD ROAD

℄ STA. 128+74.90 % 76.00' Lt. 77.00 Lt.
G.D.I. "F-1" (TYPE G1G1G) TOP = 69.39 69.15 INV. = 63.14

MATCH LINE STA. 121+50

MATCH LINE STA. 132+50

E800 W

OUTLET "F"

OUTLET "E"

D24"

D36"

D30"

TYPE G1G1G CONC. GUTTER

NEW S.L. ON WOODEN POLES (TYP. OF 2)

℄ STA. 124+12.31 % 77' Lt. END CONC. GUTTER

℄ STA. 123+04.83 % 77' Lt. BEGIN CONC. GUTTER

BRIDGE CROSSING SEE DETAIL PLAN, SHT. C-33

℄ STA. 123+54.5± BEGIN COLD PLANE

P.C. GUARDRAIL ℄ STA. 123+80± % 12' FROM EDGE SHOULDER

APPROX. LOCATION OF EXISTING CONC. HEADWALL (COVERED W/EARTH MOUND) REMOVE HW & PLUG PIPE.

RELOCATE EXISTING PVC IRRIGATION LINE AND APPURTENANCES. SEE IRRIGATION NOTES, SHT. C-3

NEW R/W LINE

OLD R/W LINE

DELETE TRANSITIONAL BERM

TOE OF FILL SLOPE

℄ INBOUND

℄ OUTBOUND

TYPE G1G1G CONC. GUTTER

BASELINE

℄ STA. 122+85 % 88' Lt. BEGIN METAL GUARD-RAIL W/ BCT

℄ STA. 122+40± CONNECT NEW PAVED SHOULDER TO EXISTING PAVEMENT. BEGIN PAV'T. TAPER

℄ STA. 123+40 % 30' Rt. END PAV'T. TAPER

℄ STA. 122+85, % 42.00' Rt. BEGIN METAL GUARD RAIL W/ BCT

P.C. GAURDRAIL ℄ STA. 122+40± % 10' FROM EDGE SHOULDER

℄ OUTBND P.C.C. ℄ STA. 124+20, % 4.00' Lt.

℄ STA. 124+34.7±, % 30.85' Rt. END METAL GUARD RAIL SEE BRIDGE PLAN (STRUCTURAL DRAWINGS)

EXISTING 24" RCP TO BE ABANDONED. SEE DEMOLITION NOTES, SHT. C-3

EXISTING CONC. HEADWALL TOP = 68.5 INV. = 65.5 PLUG INLET

SEE COLD PLANING DETAILS OVER EXISTING BRIDGE ON SHT. C-8

℄ STA. 124+26.5 % 30.85' Rt. BEGIN METAL GUARDRAIL

℄ STA. 124+06.5 % 74.00' Lt. BEGIN METAL GUARD RAIL SEE BRIDGE PLAN.

℄ STA. 126+75.5± END COLD PLANE

EDGE EXISTING PAVEMENT & 1½" A.C. OVERLAY

2' FACE OF RAIL TO EDGE PAVED SHOULDER

℄ STA. % 80' Rt. LIMITS OF 1½" A.C. OVERLAY

℄ STA. 127+80± CONNECT NEW PAVED SHOULDER TO EXISTING PAVEMENT.

℄ STA. 128+53± % 97' RT. END METAL GUARDRAIL WITH BCT

INTERSECTION - HANSEN RD ℄ STA. 129+13. SEE DETAIL PLAN, SHT. C-25

15' LONG PAVEMENT TRANSITION

REMOVE EXISTING PAVEMENT STRUCTURE, BACKFILL PER SPECS. AND GRASS.

E600 W

HANSEN RD.

G600 S

E400 W

T200 S

PLAN

SCALE: 1" = 40'

GRAPHIC SCALE 40 30 20 10 0 40 80

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

P.I. 72.05 STA. 72+00 = ℄ STA. 123+71.19

STA. 73+75

STA. 73+00 = ℄ STA. 123+71.19

P.I. 71.05 STA. 74+25.41

STA. 74+51.40 = ℄ STA. 124+53.43

STA. 74+80 = ℄ STA. 124+84.55

P.I. 71.91 STA. 74+80

℄ BRIDGE

P.R. 71.55 STA. 75+25

P.I. 71.33 STA. 75+75

STA. 76+00 = ℄ STA. 126+17.91

STA. 78+50 = ℄ STA. 128+74.90

P.I. 68.57 STA. 81+00 = ℄ STA. 131+31.90

B.V.C. 69.42 STA. 82+50

V.C. = 300'

MATCH LINE STA. 72+00 ℄ INBOUND

MATCH LINE STA. 83+00 ℄ INBOUND

S = 0.26%

S = (-) 0.61%

S = (+) 0.45%

S = 0.30%

NEW TOP BRIDGE DECK (APPROX.)

FINISH GRADE ALONG ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

24" RCP, CL. IV 260' @ S = 0.25%

24" RCP, CL. IV 90' @ S = 1.00%

36" RCP, CL. IV 125' @ S = 0.50%

36" RCP, CL. IV 250' @ S = 0.25%

30" RCP, CL. IV 250' @ S = 0.25%

30" RCP, CL. IV 268' @ S = 0.50 %

DMH "F-1" 63.65

OUTLET "E" 62.7

OUTLET "F" 61.89

DMH "F-1" 62.51

G.D.I. "F-1" 63.14

G.D.I. "F-2" 63.76

PROFILE ℄ INBOUND

SCALE: Hori.: 1" = 40' Vert.: 1" = 4'

GRAPHIC SCALE 40 30 20 10 0 40 80 4 3 2 1 0 4 8

80 70 60

72 73 74 75 76 77 78 79 80 81 82 83

Airports Division
DEPARTMENT OF TRANSPORTATION STATE OF HAWAII

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10/3/89

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871 KOLU STREET, SUITE 201
WAILUKU, MAUI, HAWAII 96793

DSGN.	DRWN.	CHK'D.	APP'D.
R.H.	C.N.	R.T.T.	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-16-90	PROFILE ADJUSTED TO MEET BRIDGE CONC. DECK ELEVATION. DELETED TRANSITIONAL BERM AT G.D.I. "F1"

AS-BUILT (Record Drawing)

DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 121 + 50 to ℄ Sta. 132 + 50

DATE : 11-15-89

DWG. NO. : C-17

No.	DESCRIPTION	R	Δ	Lc	T	C
C-5	℄ INBND PAV'T.	1467.05	10°03'16"	257.44	129.05	257.11

NOTE: SEE SHEET C-16 FOR A-2
SEE SHEET C-17 FOR B-3 & C-4

℄ STA. 135+02.27 % 42.25' Lt.
END PAVEMENT TAPER

℄ STA. 133+20 % 52.00 Lt =
P.C.C. ℄ INBND
STA. 82+82.27
INSTALL ℄ & REF. SURVEY MON.

R = 1857.86
R = 1467.05

P.T. ℄ STA. 135+84.82 % 56.75' Lt. =
℄ INBND STA. 85+40.41
INSTALL ℄ & REF. SURVEY MON.

P.T. ℄ STA. 136+55.15
℄ RAD. 1909.86

℄ STA. 136+55 % 92' Lt.
P.T. METAL GUARD RAIL

CONNECT TO EXISTING IRRIGATION LINE

RELOCATE EXISTING PVC IRRIGATION LINE AND APPURTENANCES. SEE IRRIGATION NOTES, SHT. C-3

NEW LOCATION OF IRRIGATION LINE. (36" MIN. COVER)

140+40
℄ STA. ~~140+46.82~~
CONSTRUCT 28' WIDE P.C.C. PAVEMENT, CONC. GUTTER ACROSS CH.R. SHALL MATCH P.C.C. PAVEMENT THICKNESS. SEE TYPICAL PAVEMENT SECTION SHT. ~~C-6~~ C-8
~~SEE PROFILE, SHT. C-20~~

12' WIDE PAVED ROAD CONNECTION TO NEW FIELD ROAD.

PROVIDE REINF. CONC. JACKET, 50' LONG, FOR R.C. JACKET, DETAILS SEE SHT. 104 OF DWG "STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION" VOL. 2, 1985

℄ STA. 143+16.50
% 89' Lt.
DMH "F-2" (TYPE F)
TOP = 84.27
INV. = 75.60

MATCH LINE STA. 132+50 ℄

24" RCP CL. IV
48' @ S = 1.00%

D30"

C-4 TYPE GIGIG CONC. GUTTER

C-5

B-3 REMOVE EXISTING PAVEMENT STRUCTURE

A-2 REMOVE EXISTING PAV'T. STRUCTURE. BACKFILL PER SPECS. & GRASS.

10'-0"

STA. 133+50 B.C.T.

℄ STA. 134+00
END PAVED MEDIAN AND BEGIN GRASSED MEDIAN & CONC. GUTTER

℄ STA. 134+07.10
% 29.16' Lt.
G.D.I. "F-3A" (TYPE GIGI4)
TOP = 70.19
INV. = 65.58

℄ STA. 134+07.10
% 76.52' Lt.
G.D.I. "F-3" (TYPE GIGI4)
TOP = 69.31
INV. = 65.10

℄ STA. 135+50 % 30.00 Rt.
BEGIN PAVEMENT TAPER

METAL GUARDRAIL 6'-0"

℄ STA. 136+46.11
% 81.98' Lt.
G.D.I. "F-4" (TYPE GIGI4)
TOP = ~~72.69~~ 72.69
INV. = 68.00

STA. 136+00 B.C.T.

℄ STA. 136+46.32
% 37.98' Lt.
G.D.I. "F-4A" (TYPE GIGI4)
TOP = ~~73.69~~ 73.49
INV. = 68.44

NEW R/W

TOE OF FILL SLOPE

℄ STA. 137+20 % 96' Lt.
END METAL GUARD RAIL W/BCT

TYPE GIGI4 CONC. GUTTER

OLD R/W LINE

24" RCP CL. IV
44' @ S = 1.00%

214° 29'

EDGE NEW PAVED SHOULDER

EXISTING R/W LINE

℄ STA. 136+55.15 % 4.00' Lt.
P.T. ℄ OUTBOUND

℄ STA. 138+50 ±
CONNECT NEW PAVED SHOULDER TO EXISTING PAVEMENT & END PAV'T. TAPER.

DELETE GUTTER ALONG CHR

EDGE EXISTING PAVEMENT & 1½" A.C. OVERLAY.

78.82

CONSTRUCT 10' WIDE FIELD ROAD

80.12

EIR

24" RCP CL. IV
44' @ S = 1.00%

℄ INBOUND

℄ OUTBOUND

BASELINE

TYPE GIGI4 CONC. GUTTER

80.0'± MATCH EXTG. GRADE

℄ STA. 138+96.51
% 82.00' Lt.
G.D.I. "F-5" (TYPE GIGI4)
TOP = ~~76.54~~ 77.16
INV. = 72.50

NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

140+68
℄ STA. ~~141+46.51~~
% 82.00' Lt.
G.D.I. "F-6" (TYPE GIGI4)
TOP = ~~81.44~~ 80.15
INV. = ~~74.75~~ 74.38

140+68
℄ STA ~~141+46.51~~
% 38.00' Lt.
G.D.I. "F-6A" (TYPE GIGI4)
TOP = ~~82.84~~ 80.95
INV. = ~~75.19~~ 74.80

MATCH LINE STA. 143+50 ℄

PLAN
SCALE: 1" = 40'
GRAPHIC SCALE 40 30 20 10 0 40 80

11,600 W
6,800 S
6,400 S
11,200 W
6,000 S

DELETE GUTTER TRANSITIONAL BERM AT G.D.I., F-3, F-4, F-4A, & F-5

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATION.

MATCH LINE STA. 83+00 ℄ INBOUND

STA. 83+68 = ℄ STA. 37+07.10

P.I.V.C. 69.87

STA. 84+00 P.O.C. = 70.43

F.V.C. 72.56

STA. 85+50

V.C. = 300'

FINISH GRADE ALONG ℄ INBOUND

S = 1.79%

24" RCP CL. IV
232' @ S = 1.25%

24" RCP CL. IV
250' @ S = 1.60%

G.D.I. "F-3A" G5.58
G.D.I. "F-3" G5.10

STA. 86+00
G.D.I. "F-4A" G8.44 (℄ STA. 136+46.32)
G.D.I. "F-4" G8.00 (℄ STA. 136+46.11)

STA. 86+50 = ℄ STA. 138+96.51

STA. 87+00

B.V.C. 78.82

STA. 89+00

STA. 90+21.50 = ℄ STA. 140+68

P.O.C. = 81.40

STA. 90+50

P.I.V.C. 81.51

STA. 91+00 = ℄ STA. ~~141+46.51~~

F.V.C. 83.76

STA. 92+00

STA. 92+70 = ℄ STA. 143+16.50

B.V.C. 85.26

MATCH LINE STA. 93+00 ℄ INBOUND

STA. 94+00

P.I.V.C. 86.76

EXISTING GROUND ALONG ℄ INBOUND

24" RCP CL. IV
171.5' @ S = 1.00%

24" RCP CL. IV
250' @ S = 0.50%

24" RCP CL. IV
~~250'~~ @ S = 0.50%
248.5'

G.D.I. "F-5A" 76.50

G.D.I. "F-6A" ~~75.19~~ 74.80
G.D.I. "F-6" ~~74.75~~ 74.38

DMH "F-2" 75.60

PROFILE ℄ INBOUND
SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'
GRAPHIC SCALE 40 30 20 10 0 40 80 / 4 3 2 1 0 4 8

83 84 85 86 87 88 89 90 91 92 93 94
90 80 70

132+50 to 143+50

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

10/3/89

ROBERT T. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 1734-C
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R. T. TANAKA ENGINEERS, INC.
871 KOLU STREET, SUITE 201
WAILUKU, MAUI, HAWAII 96793

DSGN.	DRWN.	CHKD.	APPD.
R.H.	C.N.	R.T.T.	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	ADDED DMH "F-2", RELOCATED G.D.I. "F-G" & "F-GA", DELETED GUTTER ACROSS CHR AND TRANSITIONAL BERM @ G.D.I.S & MISC. REVISIONS

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE

℄ Sta. 132 + 50 to ℄ Sta. 143 + 50

DATE : 11-15-89

DWG. NO. : C-18

NEW LOCATION OF 6" IRRIGATION LINE. (30" MIN. COVER)

CONSTRUCT NEW 10' WIDE FIELD RD.

℄ STA. 143+96.50
% 89.00' Lt.
D.M.H. "F-2" (TYPE "F")
TOP = 85.99
INV. = 76.09

CONNECT TO EXISTING IRRIGATION LINE

NEW LOCATION OF 12" IRRIGATION LINE. (36" MIN. COVER OUTSIDE CONC. DITCH)

℄ STA. 144+97.17
% 87.89' Lt.
D.M.H. "F-3" (TYPE "F")
TOP = 86.29
INV. = 80.25 (IN)
INV. = 76.50 (OUT)

℄ STA. 146+46.00
% 33.60' Lt.
G.D.I. "F-7A" (TYPE GIGIA)
TOP = 87.37
INV. = 81.44

℄ STA. 146+46.97
% 77.57' Lt.
G.D.I. "F-7" (TYPE GIGIA)
TOP = 86.57
INV. = 81.00

℄ STA. 148+96.91
% 72.03' Lt.
G.D.I. "F-8" (TYPE GIGIA)
TOP = 87.28
INV. = 82.25

NOTE: PROVIDE BICYCLE SAFE GRATE ON ALL G.D.I.

NEW LOCATION OF 5" IRRIGATION LINE. 36" MIN. COVER.

CONNECT TO EXISTING IRRIG. LINE

RELOCATE EXISTING PVC IRRIGATION LINE AND APPURTENANCES. SEE IRRIGATION NOTES, SHEET C-3

℄ STA. 151+21.88
% 68.05 Lt.
G.D.I. "F-9" (TYPE GIGIG)
TOP = 87.83
INV = 83.50

CONNECT TO EXT'G. IRRIG. LINE & EXTEND 24" RCP (CL.IV) SLEEVE TO NEW R/W.

CONSTRUCT NEW 10' WIDE FIELD ROAD.

℄ STA. 154+26.53
% 48.29' Lt.
BEGIN PAVEMENT TAPER

MATCH LINE STA. 143+50

11,200 W ℄

TOE OF FILL SLOPE

D24"

EIR6"

IR6"

EIR12"

EIR15"

TOE OF FILL SLOPE

TYPE GIGIA CONC. GUTTER

NEW R/W LINE

EIR5"

TOP OF CUT SLOPE

95

24" RCP CL. IV
44' @ S = 1.00%

℄ INBOUND

OLD R/W LINE

GP

100

215° 45' 10" → 1263.49

TYPE GIGIG CONC. GUTTER

℄ OUTBOUND

144

145

214° 29'

146

147

148

149

150

151

152

153

154

BASELINE

EDGE EXISTING PAVEMENT & 1½" A.C. OVERLAY.

EDGE PAVED SHOULDER

TYPE GIGIA CONC. GUTTER

215° 45' 10" → 993.04

2'

PP#27 W/RISER

PP#28

PP

TP

EXISTING R/W LINE

APPROX. LOCATION OF EXT'G. IRRIGATION LINE W/24" RCP SLEEVE ACROSS HIGHWAY.

EIR5"

MATCH LINE STA. 154+50

4,600 S

10,400 W

℄ STA. 144+46.82 % 58.00' Lt. =
P.I. ℄ INBND. STA. 94+00.31
INSTALL ℄ & REF. SURVEY MON.

℄ STA. 144+00 ±
EXTEND EXISTING IRRIGATION BOX CULVERT CROSSING. SEE PLAN & PROFILE SHEET C-33.

℄ STA. 147+50 ±
CONNECT NEW PAVED SHOULDER TO EXISTING

℄ STA. 149+20 % 22.44 Rt.
BEGIN PAVEMENT TAPER

℄ STA. 149+00 % 45' Rt.
BEGIN METAL GUARDRAIL WITH BCT

℄ STA. 151+00, % 38.44 Rt.
END PAVEMENT TAPER

℄ STA. 152+80
END 6' WIDE PAVED SHOULDER & GRASSED MEDIAN

REMOVE EXISTING PAVEMENT STRUCTURE.

RELOCATE EXISTING PVC IRRIGATION LINE AND APPURTENANCES. SEE IRRIG. NOTES SHEET.

APPROX. LOCATION OF EXISTING 15" PVC IRRIG. LINE. (LAID ON INVERT OF IRRI. DITCH & BOX CULVERT.

℄ STA. 147+20 % 4.00' Lt.
P.I. ℄ OUTBOUND

DELETE GUTTER TRANSITIONAL BERM AT G.D.I. F-7, F-7A, F-8, & F-9

10,800 W

6,000 S

5,600 S

PLAN

SCALE: 1" = 40'

GRAPHIC SCALE 40 30 20 10 0 40 80

NOTE: PROFILE STATIONS SHOWN ARE ℄ INBOUND STATIONS.

MATCH LINE STA. 93+00 ℄ INBOUND

MATCH LINE STA 104+00 ℄ INBOUND

B.V.C. 85.26

P.I.V.C. 86.76

E.V.C. 87.05

V.C. = 200'

STA. 94+00
P.O.C. 86.46

STA. 94+50
℄ STA. 144+97.17

STA. 95+00

STA. 96+00

STA. 98+50
℄ STA. 148+96.91

STA. 100+75
℄ STA. 151+21.88

FINISH GRADE ALONG ℄ INBOUND

EXISTING GROUND ALONG ℄ INBOUND

S = 0.286 %

NEW IRRIG. BOX CULVERT

6'x4' RCB

24" RCP CL. IV
150' @ S = 0.50%

24" RCP CL. IV
250' @ S = 0.50%

24" RCP CL. IV
250' @ S = 0.50%

24" RCP CL. IV
~~100'~~ 180' @ S = 0.50%

D.M.H. "F-3"
80.25' IN
76.50' OUT

D.M.H. "F-2"
76.00'

G.D.I. "F-7A"
81.44
(℄ STA. 146+46.00)

G.D.I. "F-7"
81.00'
(℄ STA. 146+46.97)

80.65
G.D.I. "F-8"

G.D.I. "F-9"
83.38

PROFILE ℄ INBOUND

SCALE: Hori.: 1" = 40'
Vert.: 1" = 4'

GRAPHIC SCALE 40 30 20 10 0 40 80 / 4 3 2 1 0 4 8

93 94 95 96 97 98 99 100 101 102 103 104

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

10/3/89

ROBERT T. TANAKA
REGISTERED PROFESSIONAL ENGINEER
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DSGN.	DRWN.	CHKD.	APPD.
R.H.	C.N.	R.T.T.	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	DELETED DMH "F-2" AND GUTTER TRANSITIONAL BERMS AT GDI.S

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

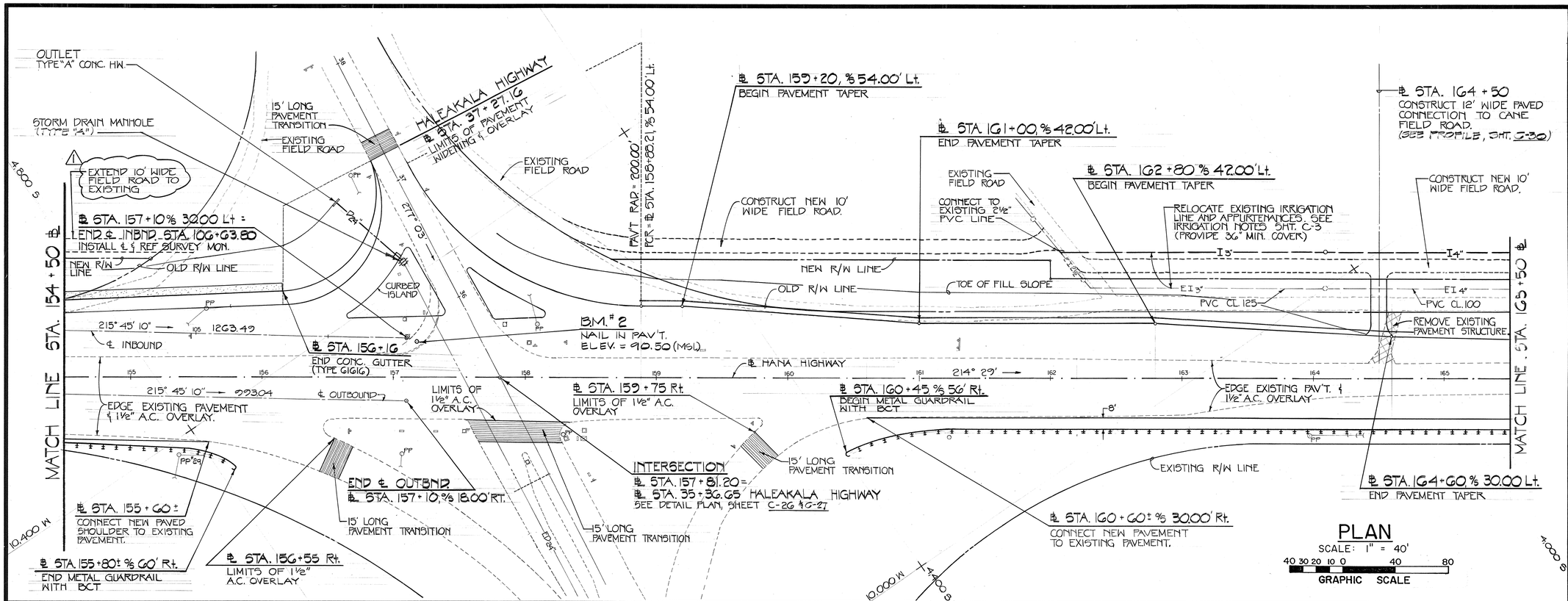
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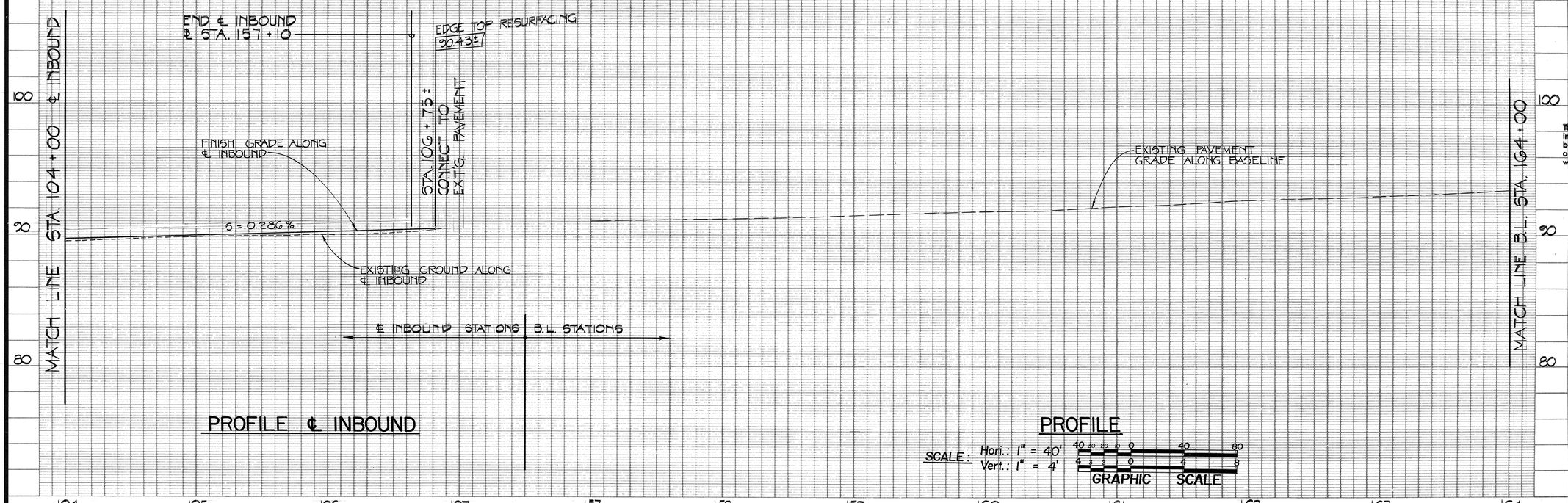
PLAN & PROFILE

℄ Sta. 143 + 50 to ℄ Sta. 154 + 50

DATE : 11-15-89

DWG. NO. : C-19





Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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10/3/89

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DSGN.	DRWN.	CHKD.	APPD.
R.H.	C.N.	R.T.T.	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS
1	7-17-90	EXTENDED FIELD ROAD TO EXISTING.

AS-BUILT (Record Drawing)
DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

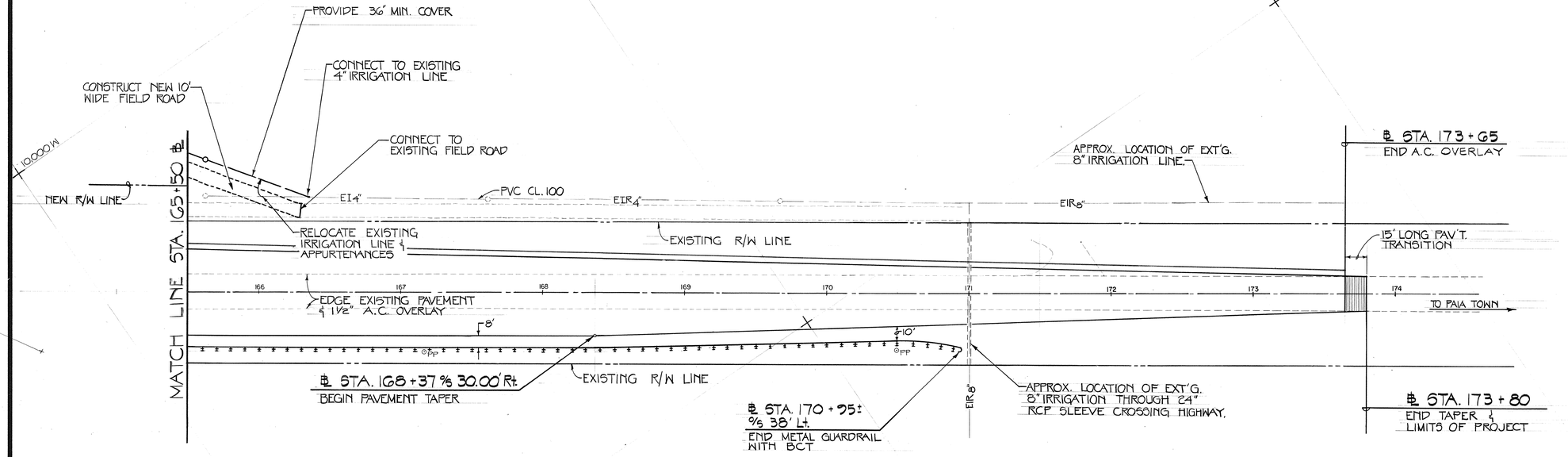
PLAN & PROFILE

℄ Sta. 154 + 50 to ℄ Sta. 165 + 50

DATE : 11-15-89

DWG. NO. : C-20

154+50 to 165+50



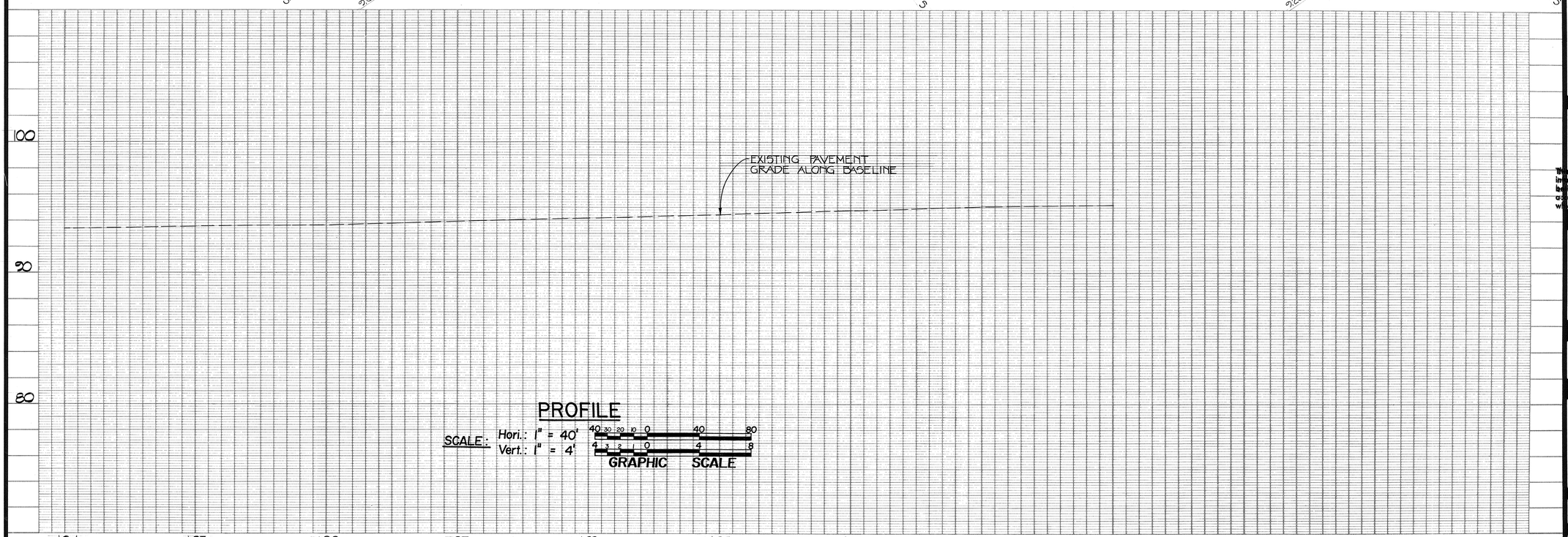
PLAN

SCALE: 1" = 40'

40 30 20 10 0 40 80

GRAPHIC SCALE

4000 S 3600 W 3600 S 3200 W 3200 S



PROFILE

SCALE: Hori.: 1" = 40'

Vert.: 1" = 4'

40 30 20 10 0 40 80

4 3 2 1 0 4 8

GRAPHIC SCALE

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

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12/3/91

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KEY PLAN / NOTES :

NO.	DATE	REVISIONS

AS-BUILT (Record Drawing)

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PROJECT NO. :

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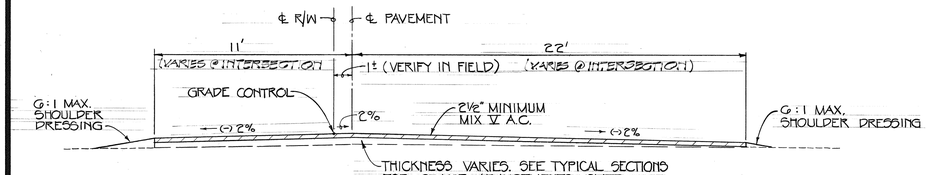
SHEET TITLE :

PLAN & PROFILE

℄ Sta. 165 + 50 to ℄ Sta. 173 + 80

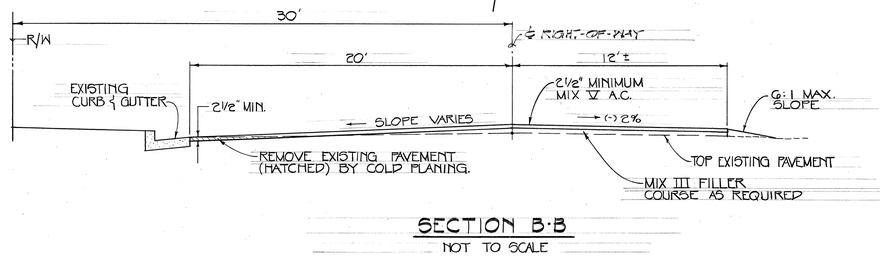
DATE : 11-15-89

DWG. NO. : C-21



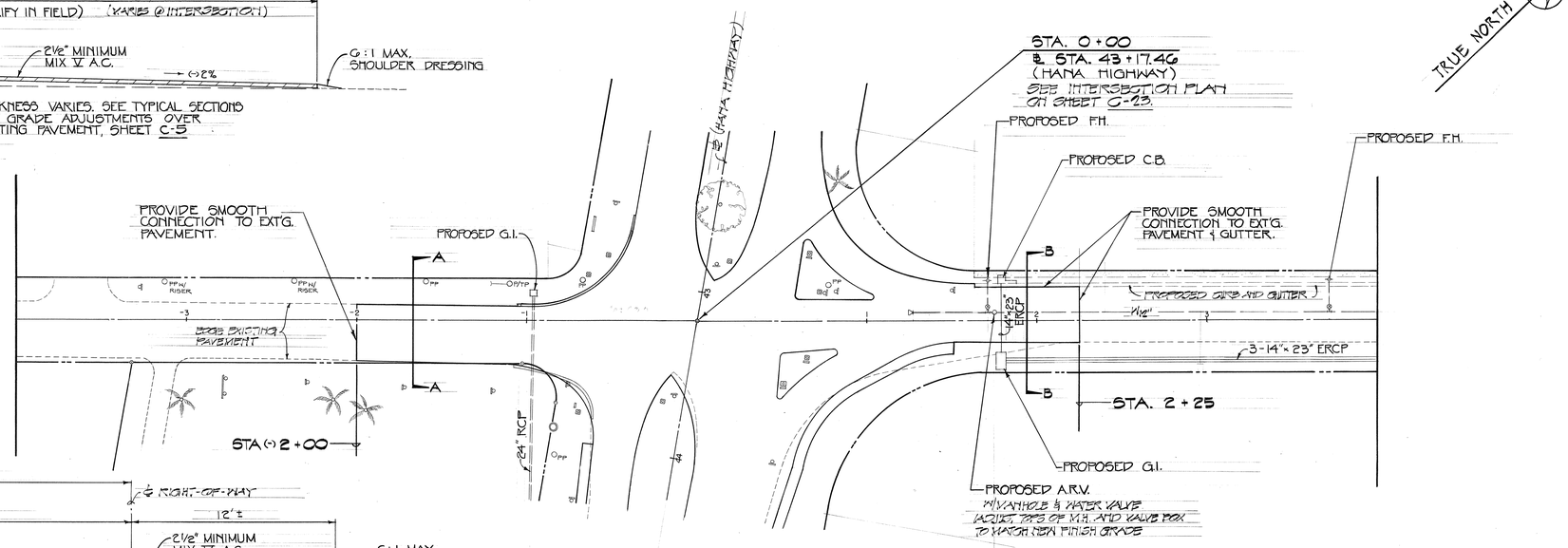
SECTION A-A

SCALE: 1" = 4'



SECTION B-B

NOT TO SCALE



PLAN – DAIRY ROAD

SCALE: 1" = 40'

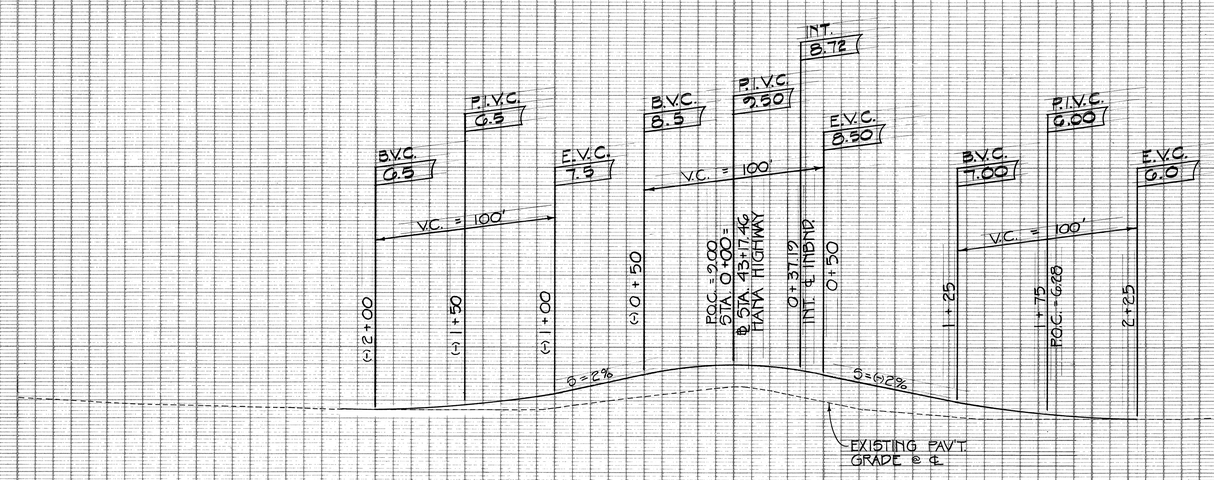
40 30 20 10 0 40 80

GRAPHIC SCALE

NOTE:

ALL PROPOSED DAIRY ROAD IMPROVEMENTS AS SHOWN, BY A & B INC. (BASED ON PLANS FOR THE "AIRPORT INDUSTRIAL SUBDIVISION")

THE CONTRACTOR SHALL COOPERATE WITH AND COORDINATE HIS ACTIVITIES WITH THE CONTRACTOR WORKING ON THE PROPOSED DAIRY ROAD IMPROVEMENTS FOR A&B INC's AIRPORT INDUSTRIAL SUBDIVISION.



PROFILE

SCALE: Hori.: 1" = 40' Vert.: 1" = 4'

40 30 20 10 0 40 80

4 3 2 1 0 4 8

GRAPHIC SCALE

Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

10/3/91

ROBERT T. TANAKA REGISTERED PROFESSIONAL ENGINEER No. 1754-C HAWAII, U.S.A.

R. T. TANAKA ENGINEERS, INC.
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DSGN.	DRWN.	CHKD.	APPD.
R.H.	M.K./C.N.	R.T.T.	

KEY PLAN / NOTES :

NO.	DATE	REVISIONS

AS-BUILT (Record Drawing)

DATE 7/12/91

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PROJECT TITLE :

HANA HIGHWAY IMPROVEMENTS

PROJECT NO. :

STATE NO. AM-1061-12
AIP NO. 3-15-0006-11

SHEET TITLE :

PLAN & PROFILE
DAIRY ROAD

DATE : 11-15-89

DWG. NO. : C-22