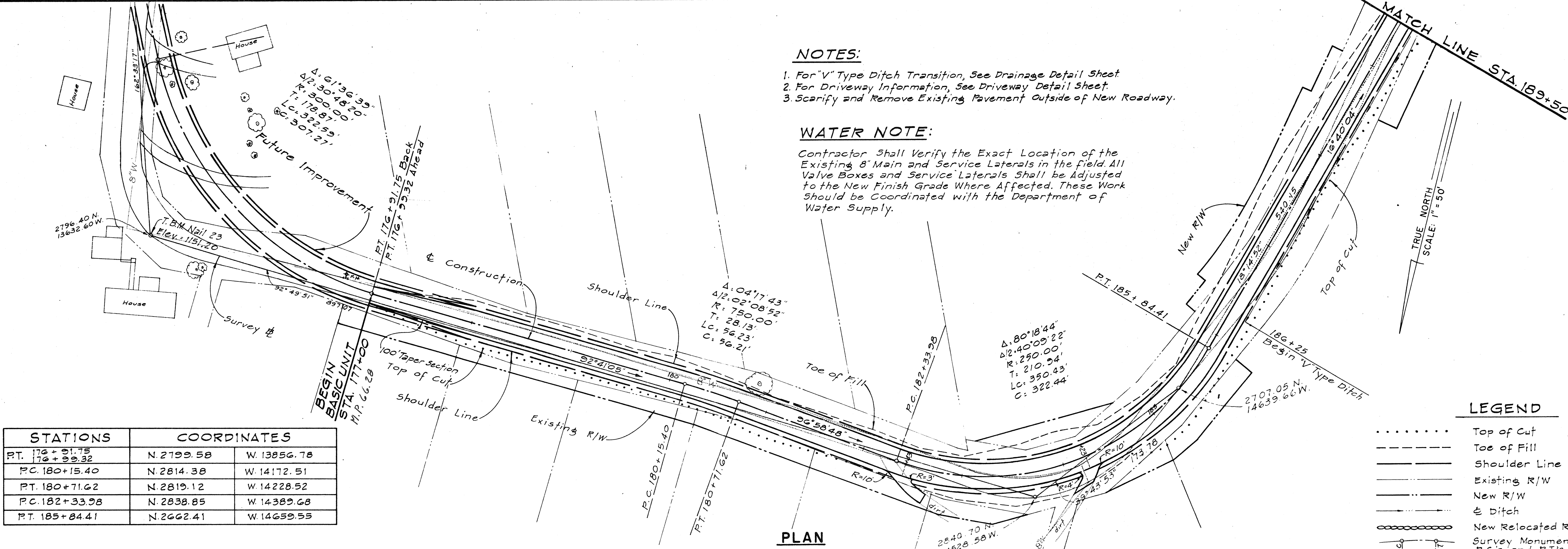




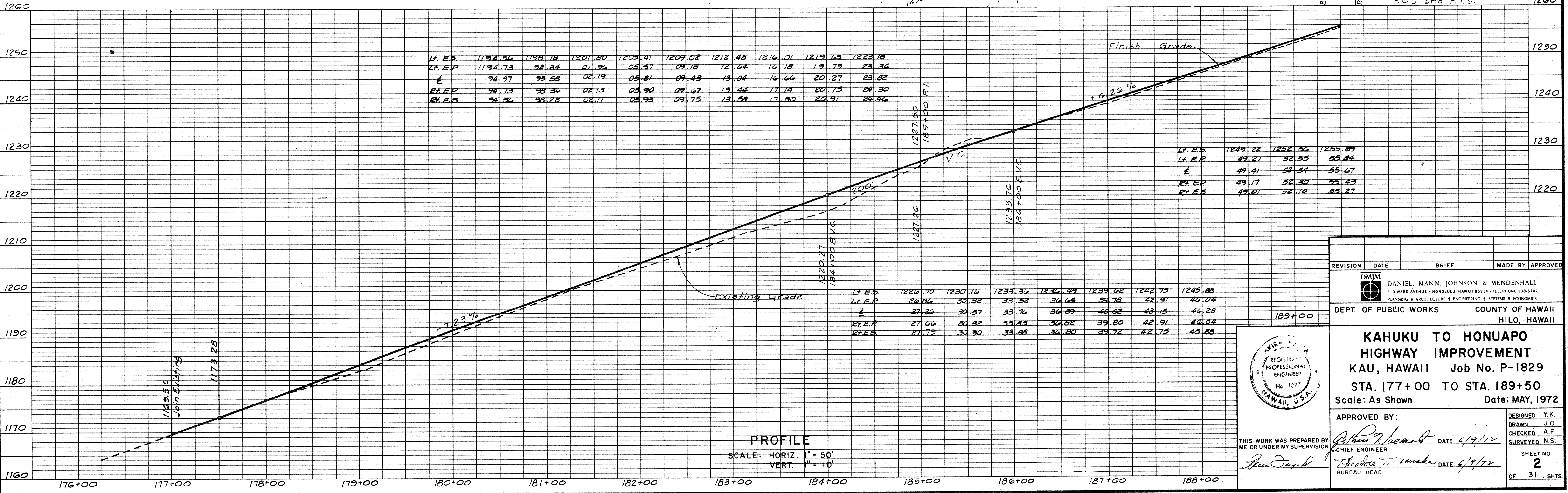
- NOTES:**
1. For "V" Type Ditch Transition, See Drainage Detail Sheet.
 2. For Driveway Information, See Driveway Detail Sheet.
 3. Scarify and Remove Existing Pavement Outside of New Roadway.

WATER NOTE:

Contractor Shall Verify the Exact Location of the Existing 8" Main and Service Laterals in the field. All Valve Boxes and Service Laterals Shall be Adjusted to the New Finish Grade Where Affected. These Work Should be Coordinated with the Department of Water Supply.

STATIONS	COORDINATES	
PT. 176+91.75 176+99.32	N. 2799.58	W. 13856.78
P.C. 180+15.40	N. 2814.38	W. 14172.51
PT. 180+71.62	N. 2819.12	W. 14228.52
P.C. 182+33.98	N. 2838.85	W. 14389.68
PT. 185+84.41	N. 2662.41	W. 14659.55

- LEGEND**
- Top of Cut
 - Toe of Fill
 - Shoulder Line
 - Existing R/W
 - New R/W
 - E Ditch
 - ○ ○ ○ ○ New Relocated Rock Wall
 - Survey Monument at all P.C.'s and P.T.'s.



REVISION	DATE	BRIEF	MADE BY	APPROVED

DMJM

 DANIEL, MANN, JOHNSON, & MENDENHALL
 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747
 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS

DEPT. OF PUBLIC WORKS COUNTY OF HAWAII
 HILO, HAWAII

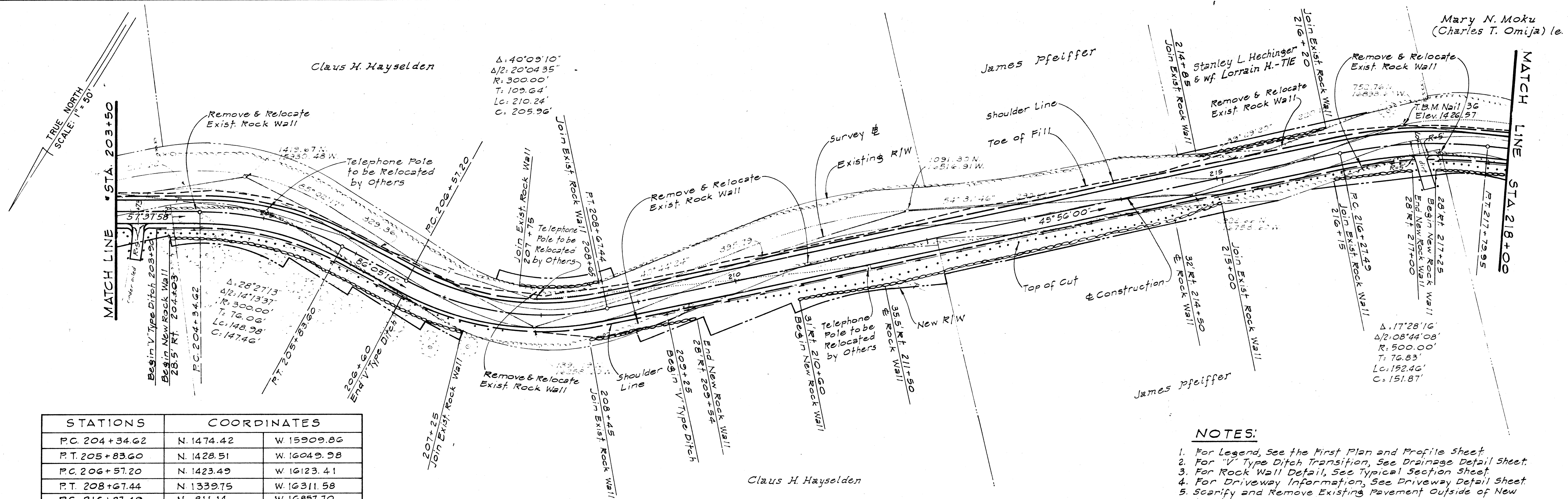
**KAHUKU TO HONUAPO
 HIGHWAY IMPROVEMENT**
 KAU, HAWAII Job No. P-1829
 STA. 177+00 TO STA. 189+50
 Scale: As Shown Date: MAY, 1972

APPROVED BY: DATE 6/9/72
 CHIEF ENGINEER

THIS WORK WAS PREPARED BY DATE 6/9/72
 ME OR UNDER MY SUPERVISION

DATE 6/9/72
 BUREAU HEAD

DESIGNED Y.K.
 DRAWN J.O.
 CHECKED A.F.
 SURVEYED N.S.
 SHEET NO. **2**
 OF 31 SHTS.

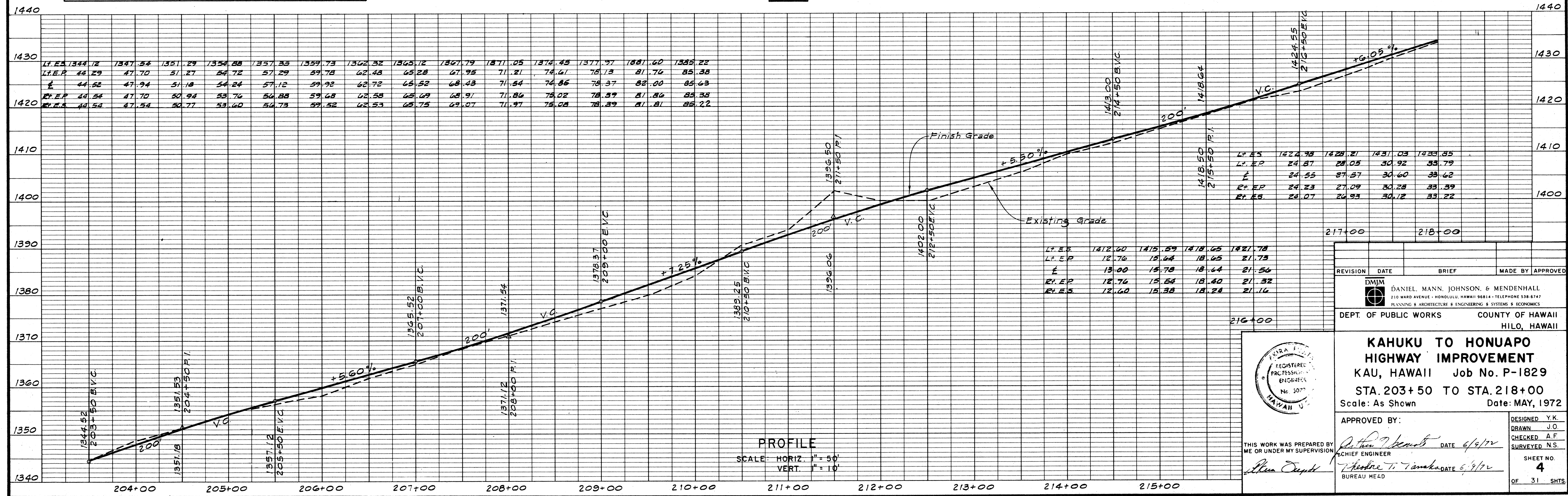


STATIONS	COORDINATES	
P.C. 204+34.62	N. 1474.42	W. 15909.86
P.T. 205+83.60	N. 1428.51	W. 16049.98
P.C. 206+57.20	N. 1423.49	W. 16123.41
P.T. 208+67.44	N. 1339.75	W. 16311.58
P.C. 216+27.49	N. 811.14	W. 16857.70
P.T. 217+79.95	N. 757.70	W. 16912.90

- NOTES:**
1. For Legend, See the First Plan and Profile Sheet.
 2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
 3. For Rock Wall Detail, See Typical Section Sheet.
 4. For Driveway Information, See Driveway Detail Sheet.
 5. Scarify and Remove Existing Pavement Outside of New Roadway.

Claus H. Hayselden

PLAN



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

REVISION	DATE	BRIEF	MADE BY	APPROVED
DEPT. OF PUBLIC WORKS COUNTY OF HAWAII HILO, HAWAII				
KAHUKU TO HONUAPO HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 203+50 TO STA. 218+00 Scale: As Shown Date: MAY, 1972				
APPROVED BY: CHIEF ENGINEER			DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S. SHEET NO. 4 OF 31 SHTS.	

NOTE:
Construct access approach at
Station ± 228+00 (left). Payment
for the approach construction
shall be incidental to road improve-
ments. See sheet no. G for access
approach details.

Robert L. McKayne

Bobby C. Hamilton &
w/ Betty Jean
Lester Petersen &
w/ DeLoris
(Arda F. Toquchi) A/S

Gerald L. Copp - 1/2
Bobby C. Hamilton
Lester Petersen - 1/2

NOTES:

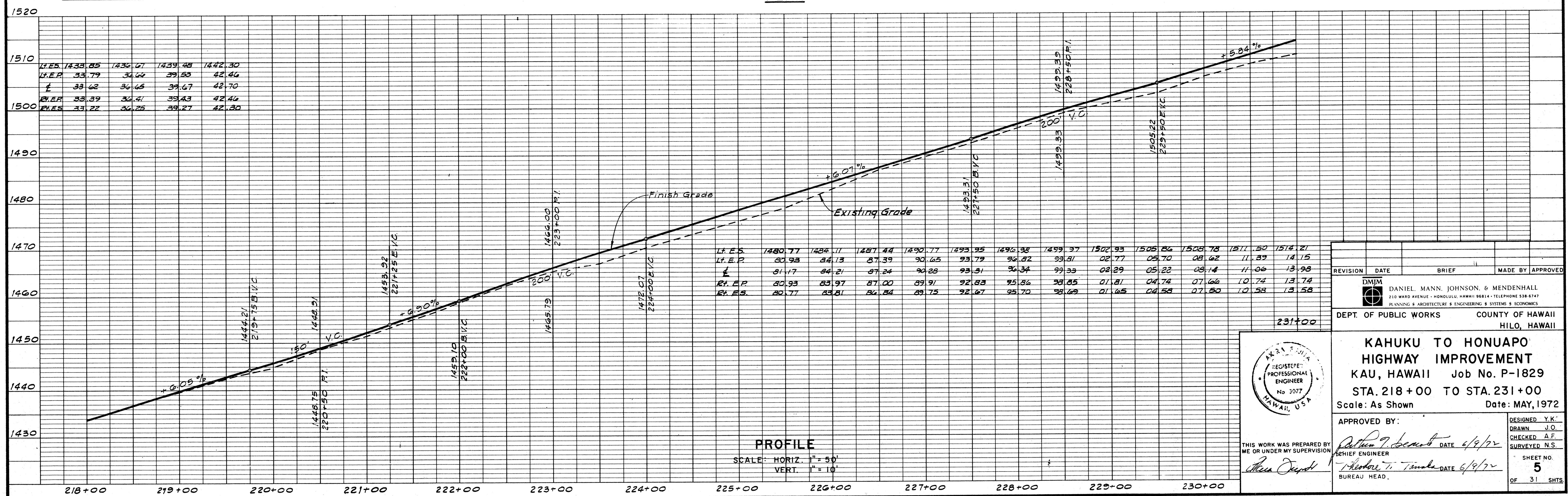
1. For Legend, See the First Plan & Profile Sheet.
2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
3. For Rock Wall Detail, See Typical Section Sheet.
4. For Driveway Information, See Driveway Detail Sheet.
5. Scarify and Remove Existing Pavement outside of New Roadway.

Δ = 37° 46' 36"
4/2 = 18° 53' 18"
R = 700.00'
T = 239.50'
LC = 461.53'
C = 453.22'

Mary N. Moku
(Kensuke Miyahara) - l.e.
(George Martinson) - l.e.

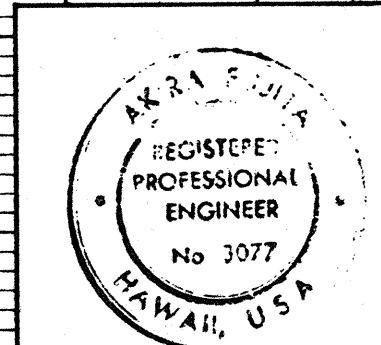
STATIONS		COORDINATES	
P.C. 226+28.03		N. 343.63	W. 17739.94
P.T. 230+89.56		N. 282.84	W. 18189.06

PLAN



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
[Signature]
[Signature]

REVISION	DATE	BRIEF	MADE BY	APPROVED

DMJM
DANIEL MANN, JOHNSON, & MENDENHALL
210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747
PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS

DEPT. OF PUBLIC WORKS COUNTY OF HAWAII
HILO, HAWAII

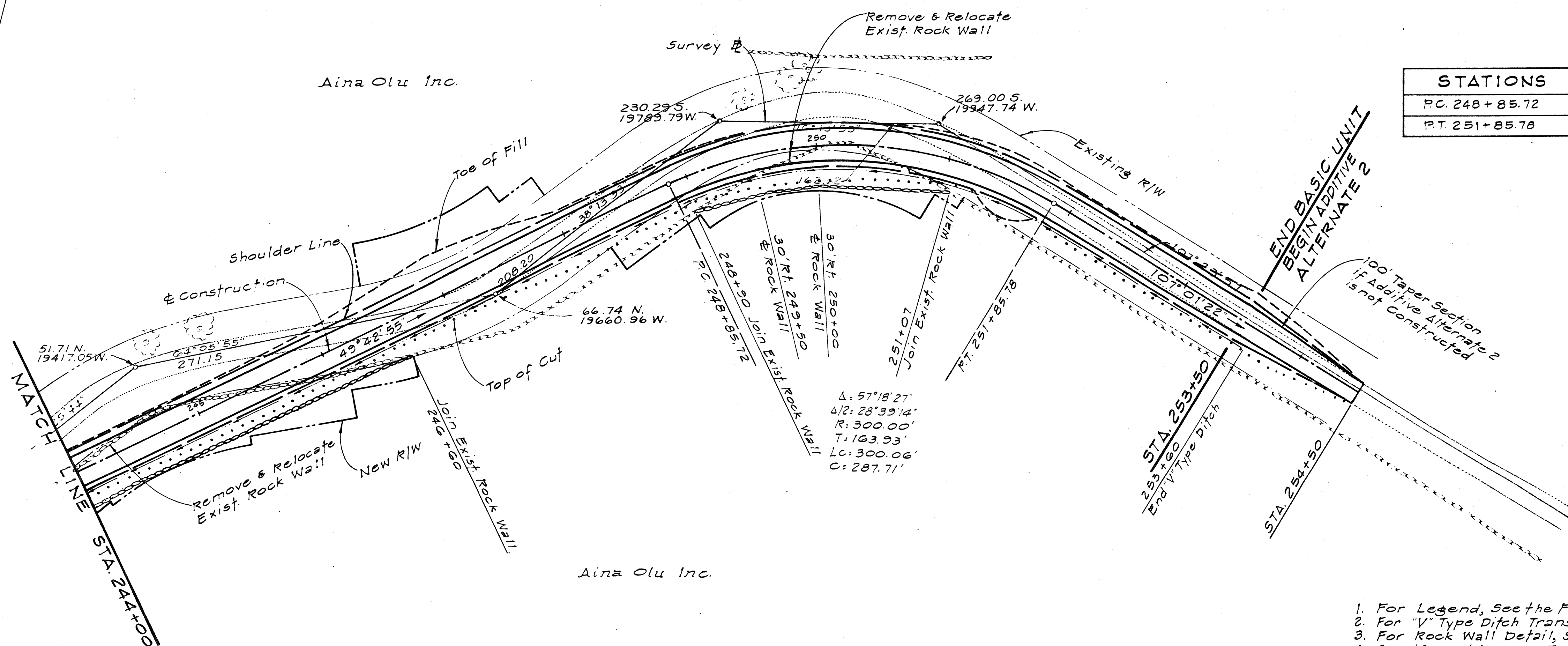
**KAHUKU TO HONUAPO
HIGHWAY IMPROVEMENT**
KAU, HAWAII Job No. P-1829
STA. 218+00 TO STA. 231+00
Scale: As Shown Date: MAY, 1972

APPROVED BY: [Signature] DATE 6/9/72
[Signature] DATE 6/9/72
BUREAU HEAD.

DESIGNED Y.K.
DRAWN J.O.
CHECKED A.F.
SURVEYED N.S.

SHEET NO.
5
OF 31 SHTS.

TRUE NORTH
SCALE: 1" = 50'

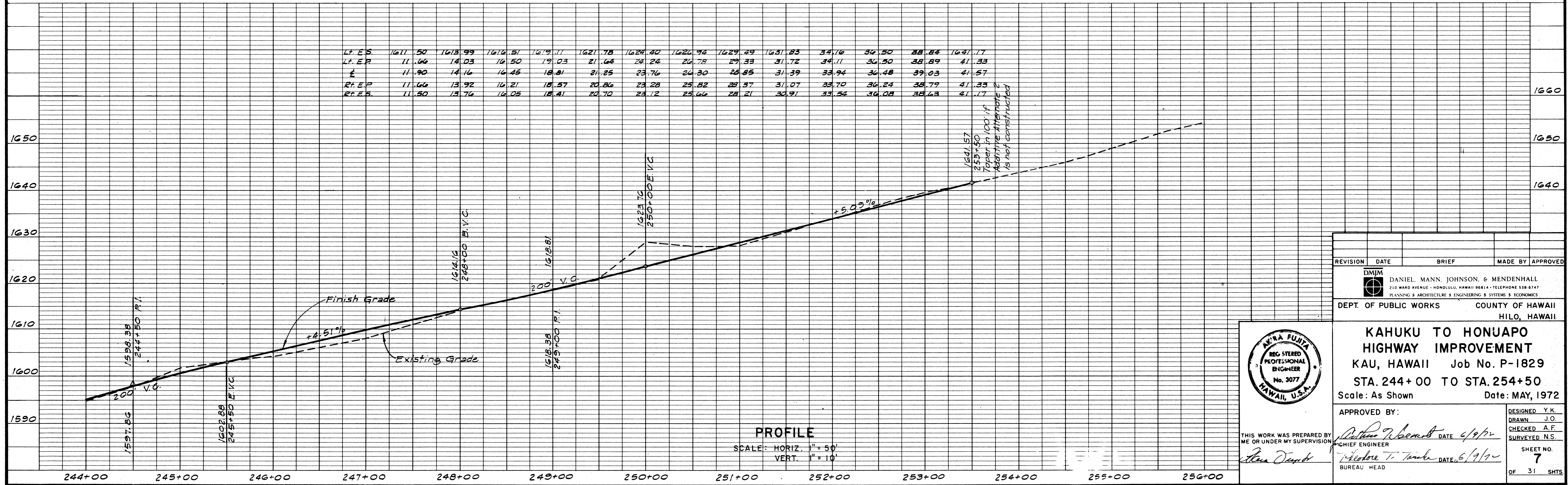


STATIONS		COORDINATES	
P.C. 248+85.72		S. 175.30	W. 19766.25
P.T. 251+85.78		S. 233.31	W. 20048.05

Aina Olu Inc.

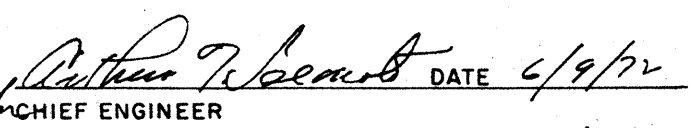
PLAN

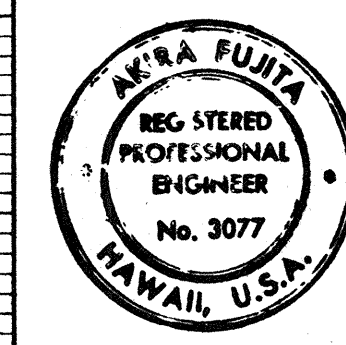
1. For Legend, See the First Plan & Profile Sheet.
2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
3. For Rock Wall Detail, See Typical Section Sheet.
4. Scarify and Remove Existing Pavement Outside of New Roadway.



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

REVISION	DATE	BRIEF	MADE BY	APPROVED
 DANIEL MANN JOHNSON & MENDENHALL 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS				
DEPT. OF PUBLIC WORKS		COUNTY OF HAWAII HILO, HAWAII		
KAHUKU TO HONUAPO HIGHWAY IMPROVEMENT				
KAU, HAWAII Job No. P-1829				
STA. 244+00 TO STA. 254+50				
Scale: As Shown Date: MAY, 1972				
APPROVED BY:				
 DATE 4/9/72				
CHIEF ENGINEER				
 DATE 6/9/72				
BUREAU HEAD				
DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S.				
SHEET NO. 7 OF 31 SHTS				



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION


STATIONS	COORDINATES	
P.C. 259+01.59	S. 23.75	W. 20732.50
P.T. 260+80.40	N. 69.08	W. 20883.06
P.C. 267+94.41	N. 585.24	W. 21376.40
P.T. 270+08.32	N. 676.60	W. 21564.82

PLAN

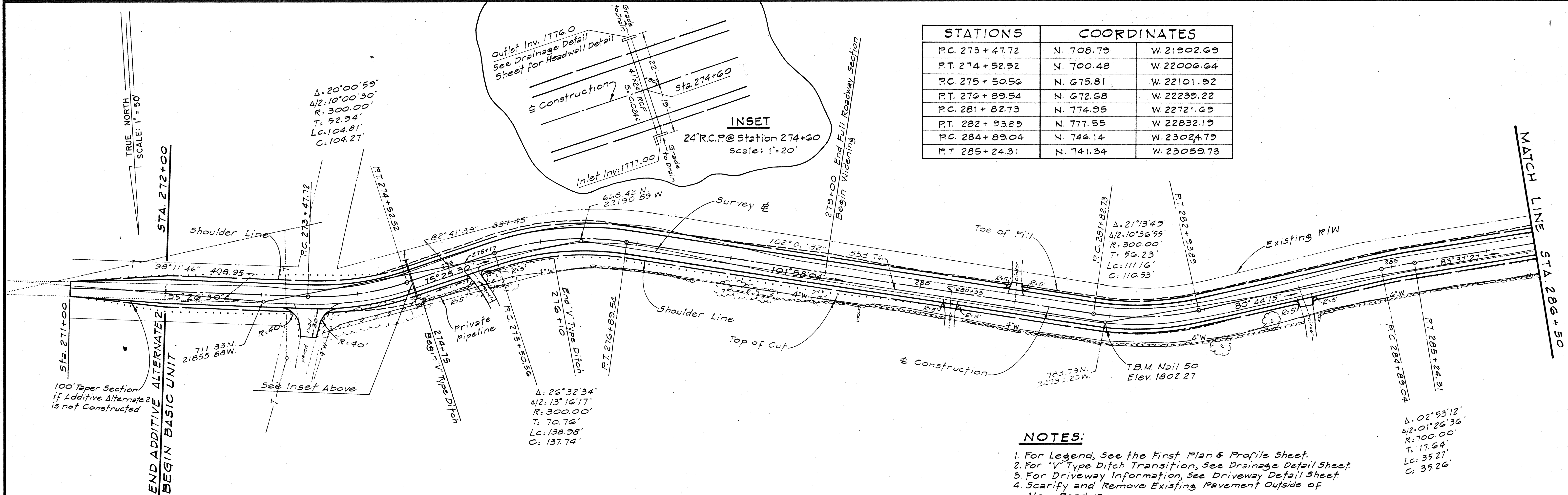
NOTES:

1. For Legend, See the First Plan & Profile Sheet.
2. For Rock Wall Detail, See Typical Section Sheet.
3. For Driveway Information, See Driveway Detail Sheet.

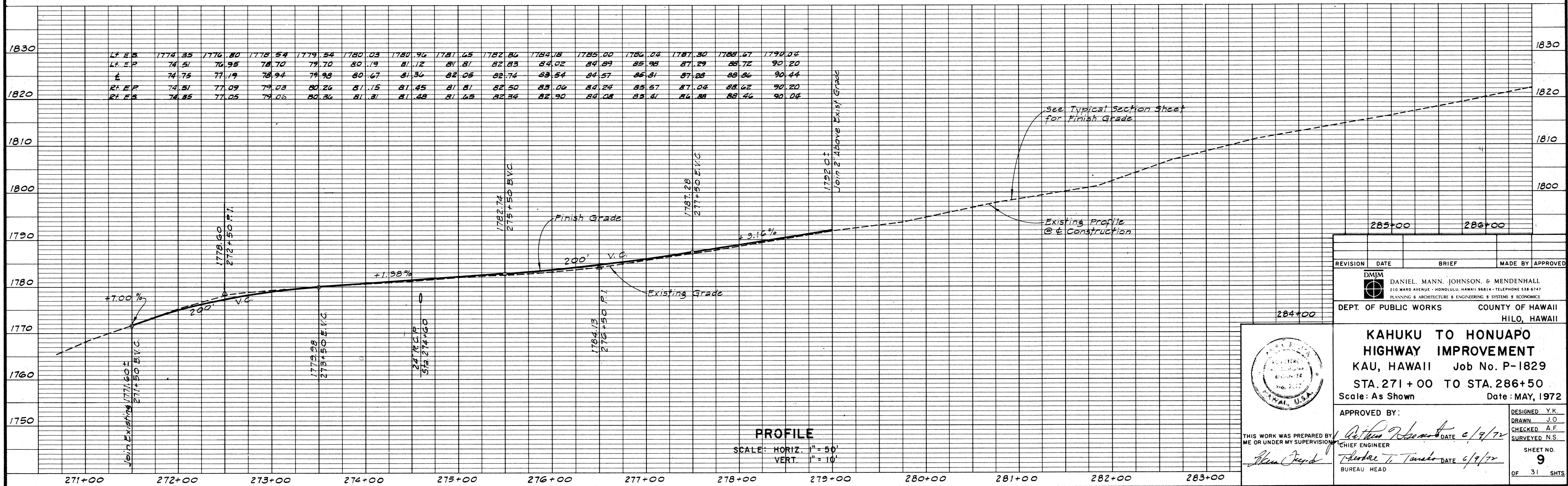
PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

REVISION	DATE	BRIEF	MADE BY	APPROVED
DMJM DANIEL, MANN, JOHNSON, & MENDENHALL 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6147 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS				
DEPT. OF PUBLIC WORKS			COUNTY OF HAWAII HILO, HAWAII	
KAHUKU TO HONUAPO HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 253+50 TO STA. 272+00 Scale: As Shown Date: MAY, 1972				
APPROVED BY:		DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S.		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION		DATE 6/9/72 DATE 6/9/72		
CHIEF ENGINEER BUREAU HEAD		SHEET NO. 8 OF 31 SHTS.		



- NOTES:**
1. For Legend, See the First Plan & Profile Sheet.
 2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
 3. For Driveway Information, See Driveway Detail Sheet.
 4. Scarify and Remove Existing Pavement Outside of New Roadway.



REVISION	DATE	BRIEF	MADE BY	APPROVED
1				

DMJM
DANIEL, MANN, JOHNSON, & MENDENHALL
210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-5747
PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS

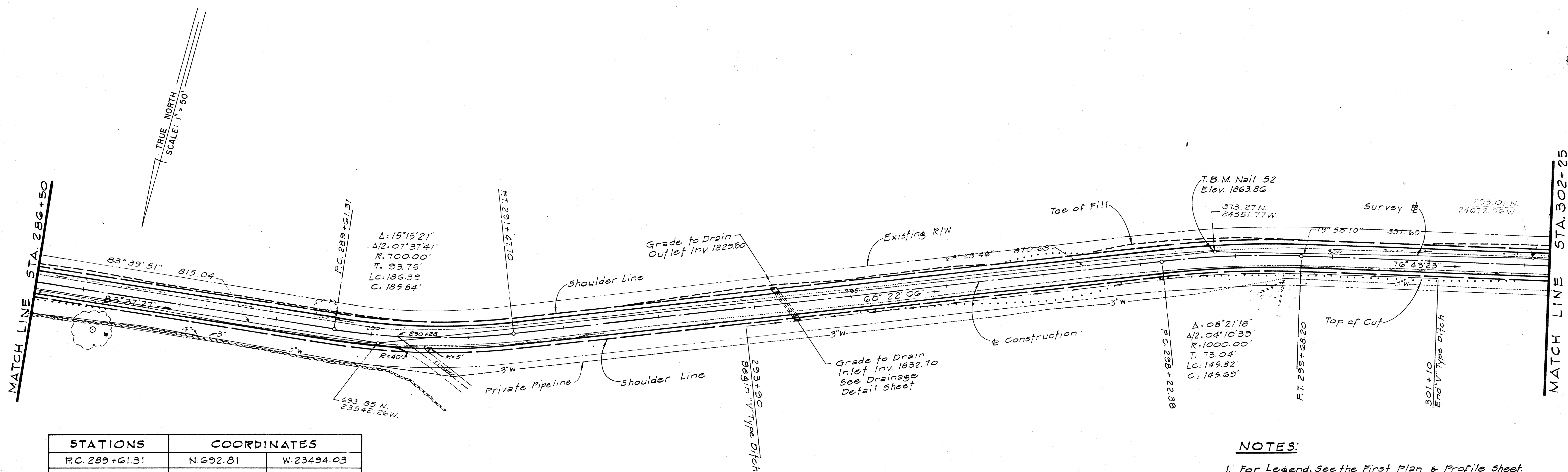
DEPT. OF PUBLIC WORKS
COUNTY OF HAWAII
HILO, HAWAII

**KAHUKU TO HONUAPU
HIGHWAY IMPROVEMENT**
KAU, HAWAII Job No. P-1829
STA. 271 + 00 TO STA. 286 + 50
Scale: As Shown Date: MAY, 1972

APPROVED BY: *[Signature]* DATE: 6/9/72
CHIEF ENGINEER

DESIGNED: Y.K.
DRAWN: J.O.
CHECKED: A.F.
SURVEYED: N.S.

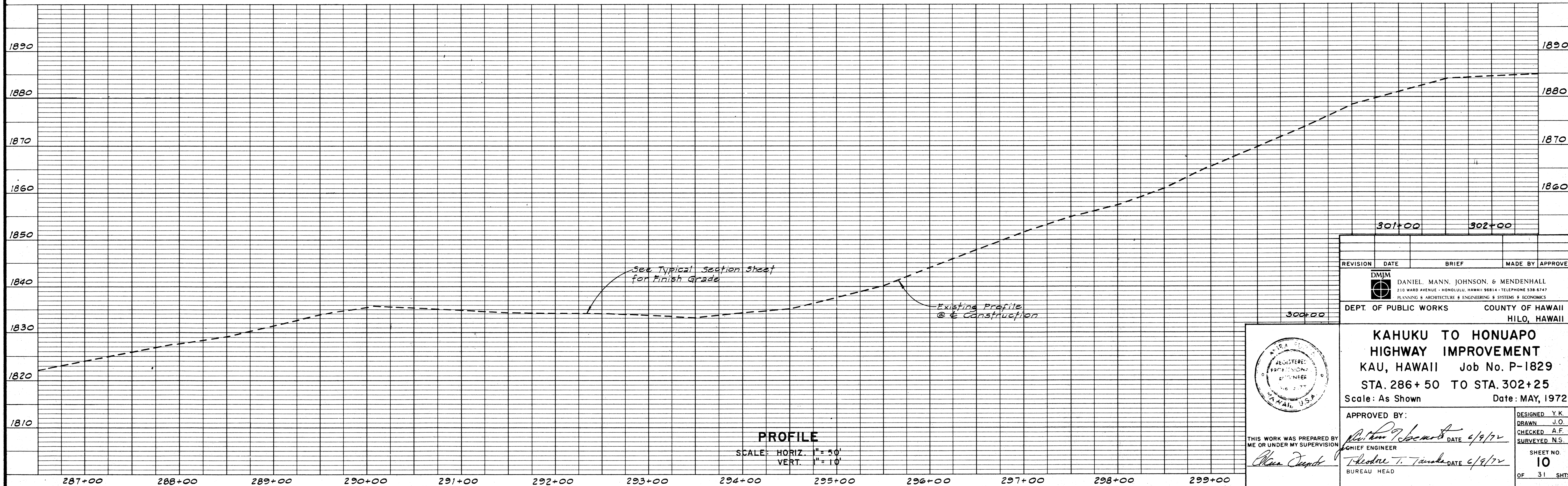
SHEET NO. 9
OF 31 SHTS.



STATIONS	COORDINATES	
P.C. 289+61.31	N 692.81	W 23494.03
P.T. 291+47.70	N 647.84	W 23674.35
P.C. 298+22.38	N 399.13	W 24301.51
P.T. 299+68.20	N 355.43	W 24440.49

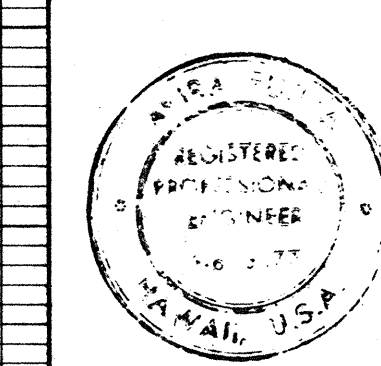
- NOTES:**
1. For Legend, See the First Plan & Profile Sheet.
 2. For "V" Type Ditch Transition, See Drainage Ditch Sheet.
 3. For Driveway Information, See Driveway Detail Sheet.

PLAN



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

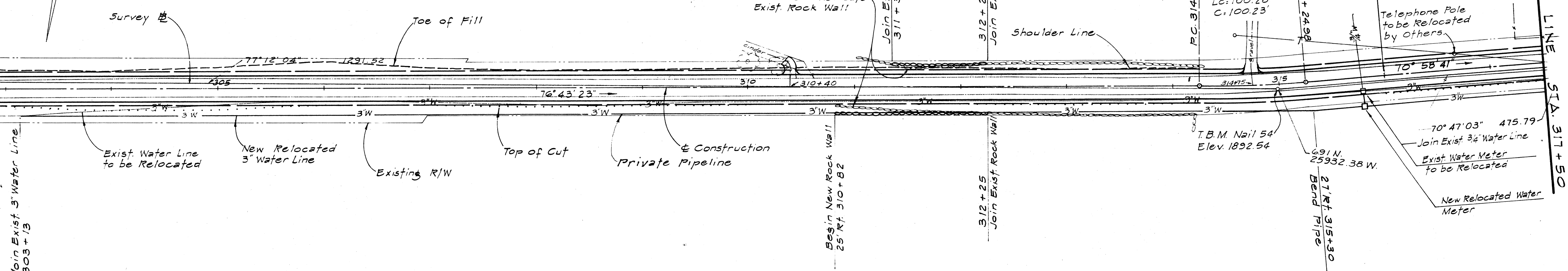


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Alan Joseph
CHIEF ENGINEER

REVISION	DATE	BRIEF	MADE BY	APPROVED
DMJM DANIEL, MANN, JOHNSON, & MENDENHALL 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS				
DEPT. OF PUBLIC WORKS			COUNTY OF HAWAII HILO, HAWAII	
KAHUKU TO HONUAPO HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 286+50 TO STA. 302+25 Scale: As Shown Date: MAY, 1972				
APPROVED BY:			DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S.	
<i>Robert T. Tamm</i> BUREAU HEAD			DATE 6/9/72 DATE 6/9/72 SHEET NO. 10 OF 31 SHTS	

MATCH LINE STA. 302+25

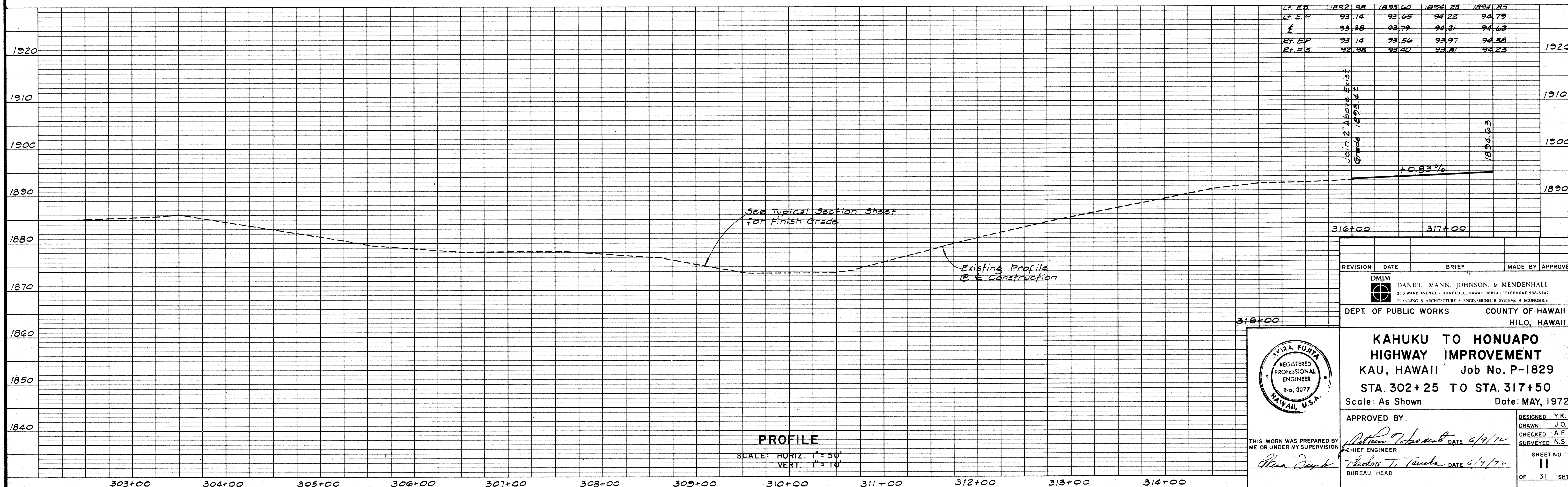
TRUE NORTH
SCALE: 1" = 50'



STATIONS	COORDINATES	
P.C. 314+24.70	N. 20.93	W. 25858.06
P.T. 315+24.98	S. 6.96	W. 25954.34

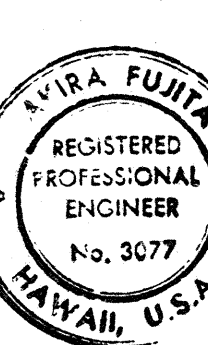
- NOTES:**
1. For Legend, See the First Plan and Profile Sheet.
 2. For Rock Wall Detail, See Typical Section Sheet.
 3. For Driveway Information, See Driveway Detail Sheet.

PLAN



PROFILE

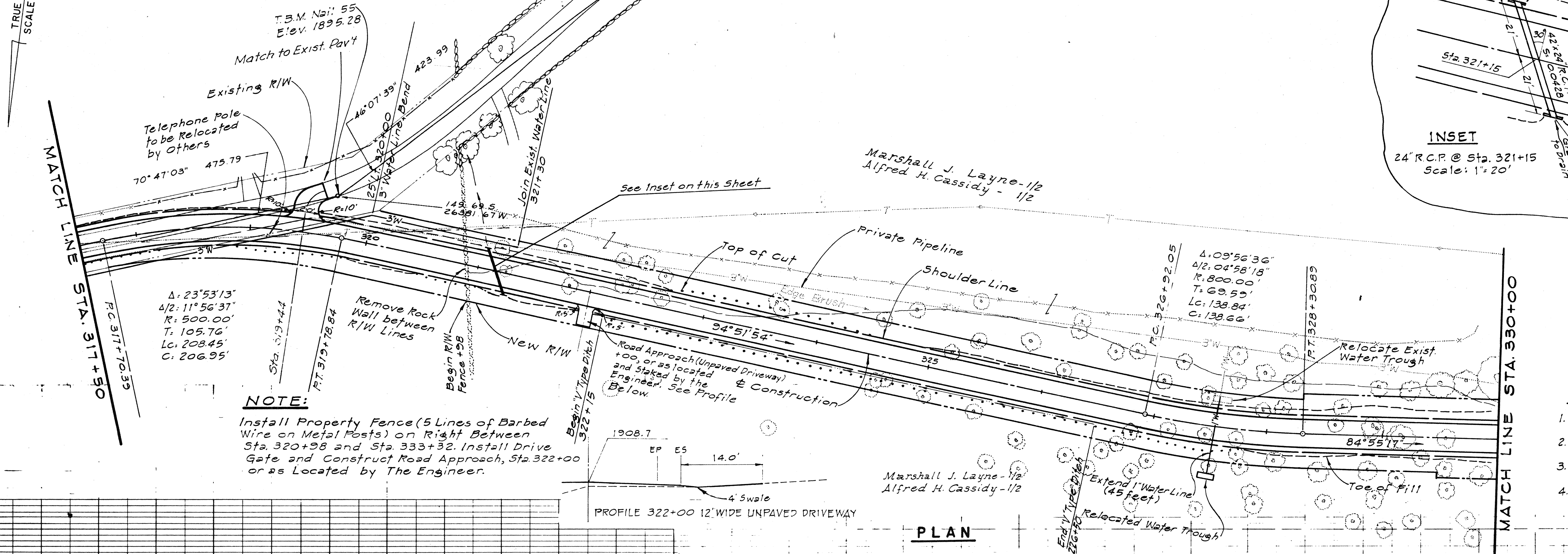
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



KAHUKU TO HONUAPU HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 302+25 TO STA. 317+50 Scale: As Shown Date: MAY, 1972	
APPROVED BY: <i>[Signature]</i> CHIEF ENGINEER	DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S. SHEET NO. 11 OF 31 SHTS.

STATIONS	COORDINATES	
P.C. 317+70.39	S. 86.92	W. 26186.27
P.T. 319+78.84	S. 112.42	W. 26391.64
P.C. 326+92.05	S. 51.93	W. 27102.28
P.T. 328+30.89	S. 52.19	W. 27240.94

TRUE NORTH
SCALE: 1" = 50'

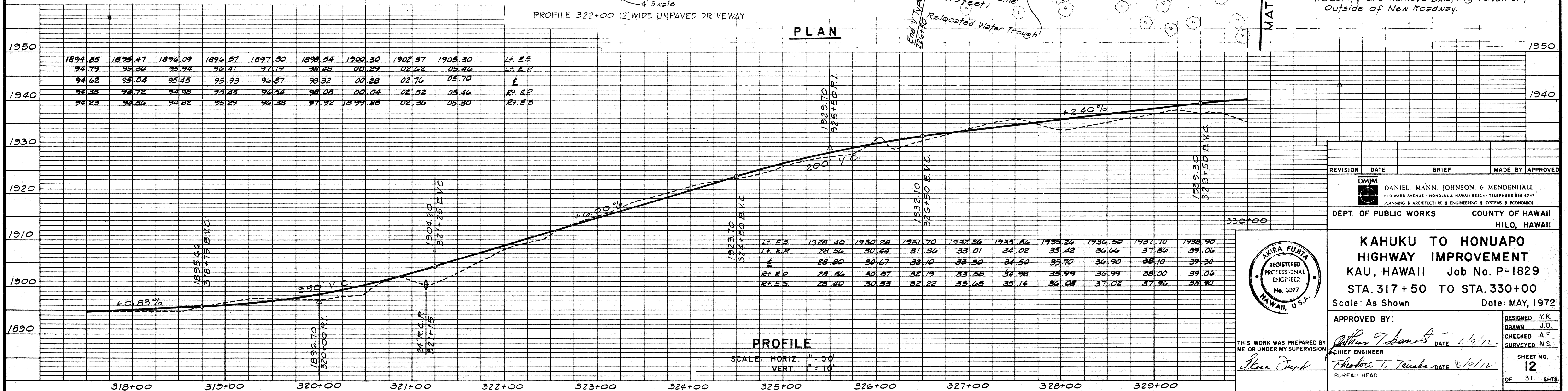
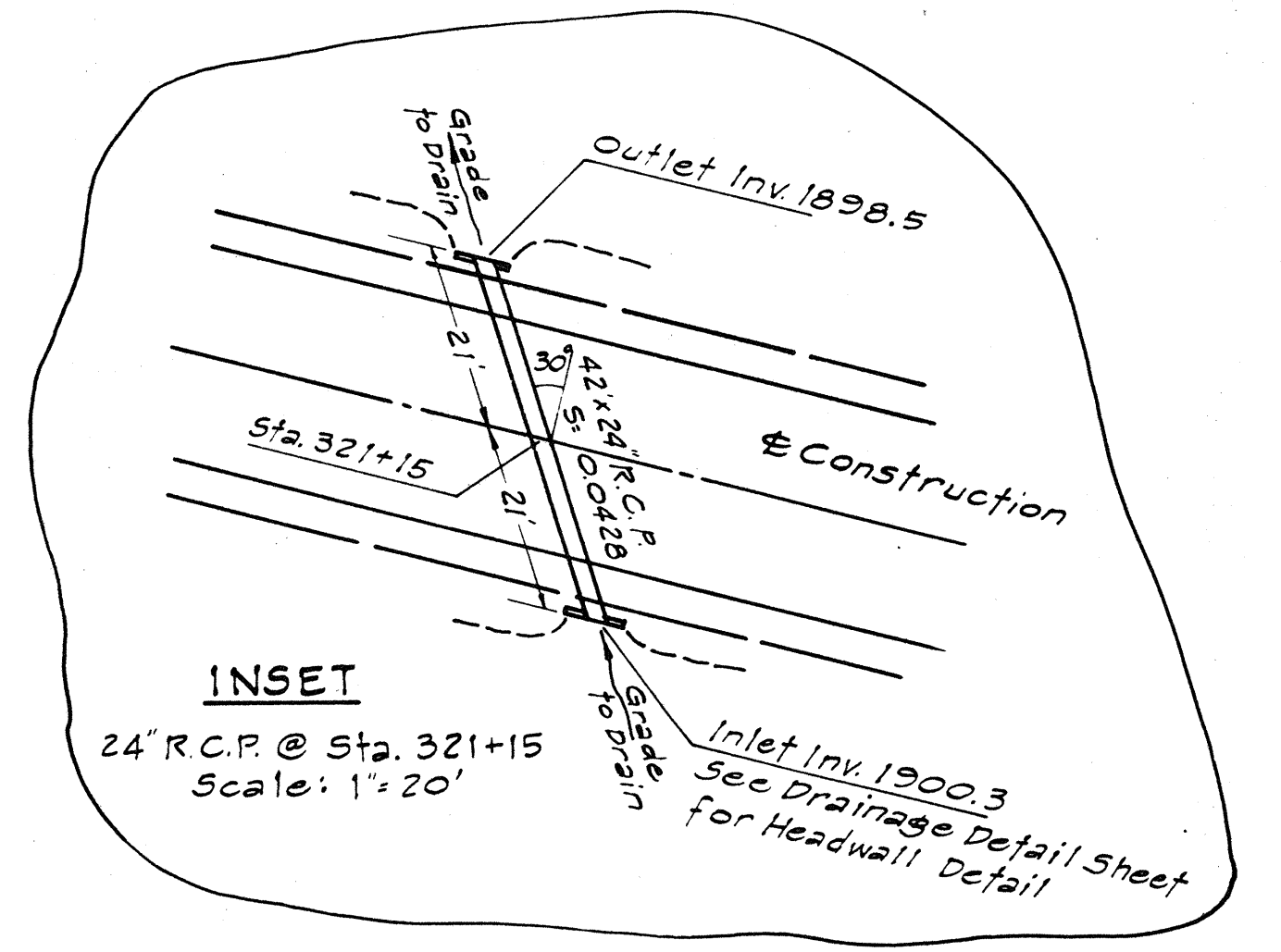


NOTE:

Install Property Fence (5 Lines of Barbed Wire on Metal Posts) on Right Between Sta. 320+98 and Sta. 333+32. Install Drive Gate and Construct Road Approach, Sta. 322+00 or as Located by The Engineer.

NOTES:

1. For Legend, See the First Plan and Profile Sheet.
2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
3. For Driveway Information Sta. 319+44 See Driveway Detail Sheet.
4. Scarify and Remove Existing Pavement Outside of New Roadway.



REVISION	DATE	BRIEF	MADE BY	APPROVED

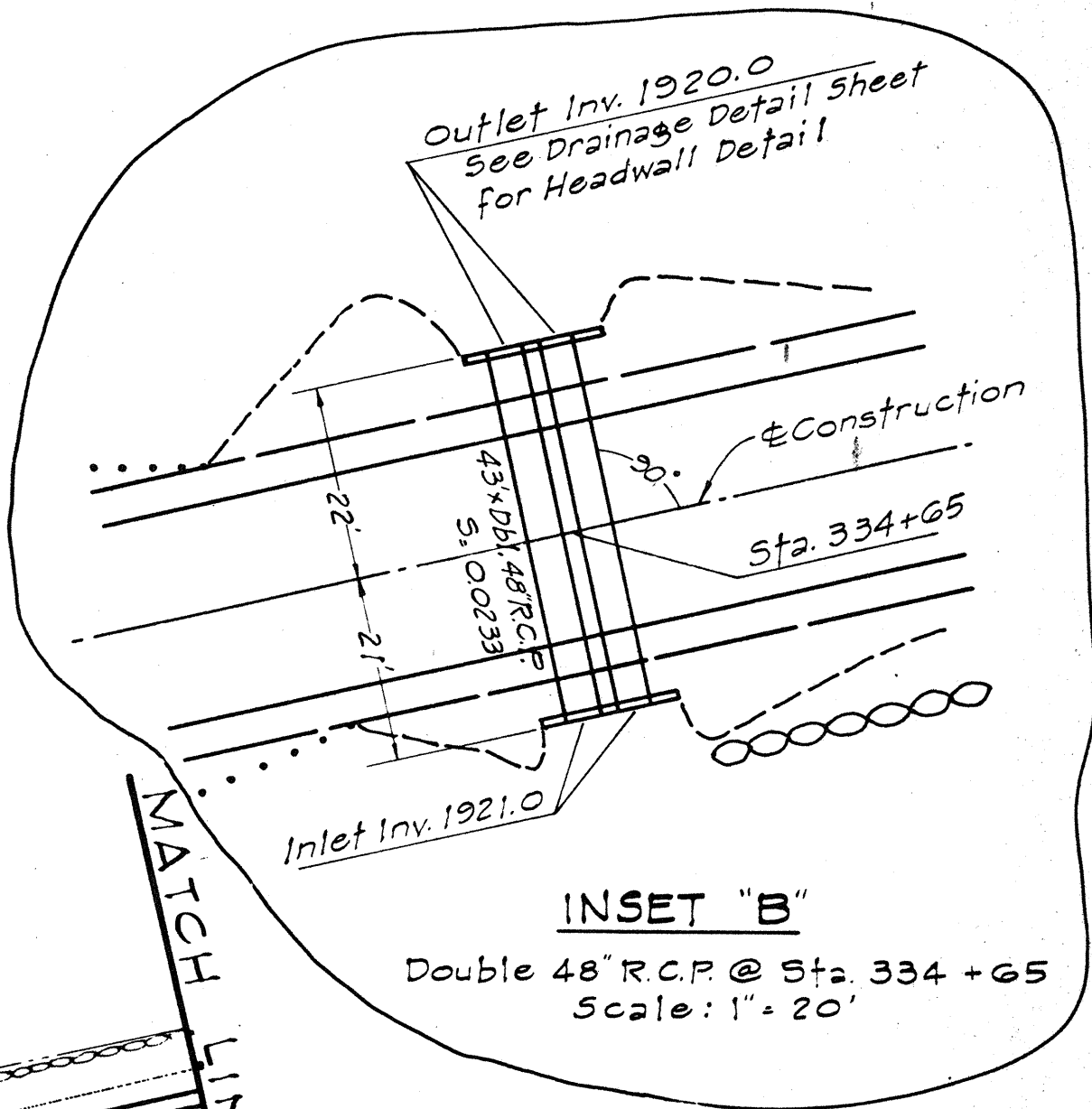
**KAHUKU TO HONUPO
HIGHWAY IMPROVEMENT**
KAU, HAWAII Job No. P-1829
STA. 317+50 TO STA. 330+00
Scale: As Shown Date: MAY, 1972

APPROVED BY: *Arthur T. Tenuka* DATE: 6/4/72
DESIGNED: Y.K.
DRAWN: J.O.
CHECKED: A.F.
SURVEYED: N.S.
SHEET NO. 12
OF 31 SHES

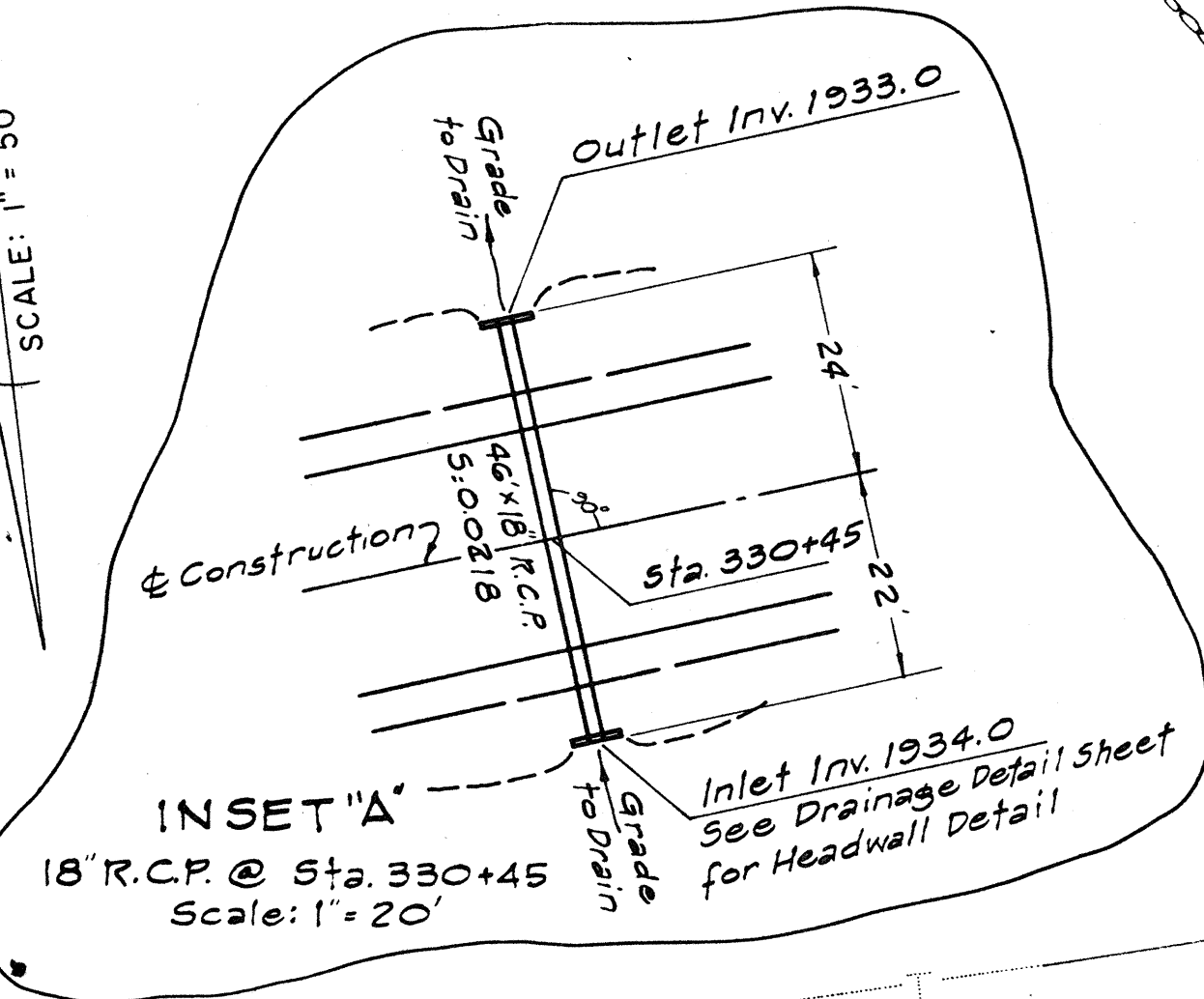
STATIONS	COORDINATES	
P.C. 341+06.76 Back	S. 165.14	W. 28511.80
P.T. 344+17.81	S. 165.84	W. 28519.80

B.P. Bishop Estate
(C. Brewer & Co., Ltd.) l.e.

* Construct 100' Taper Section between Sta. 337+00 and Sta. 338+00 if Additive Alternate 1 is not Constructed.



TRUE NORTH
SCALE: 1" = 50'

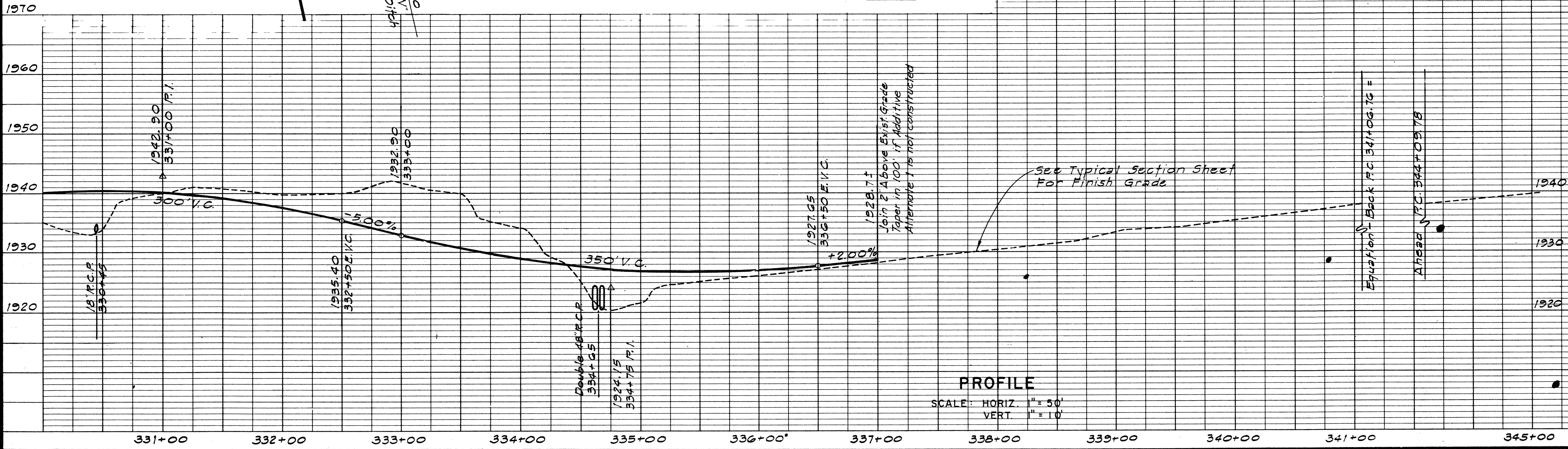


NOTE:
Install Property Fence (5 Lines of Barbed Wire on Metal Posts) on Right Between Sta. 320+98 and Sta. 333+32.
Install Drive Gate and Construct Road Approach, Sta. 322+00 or as Located by The Engineer.

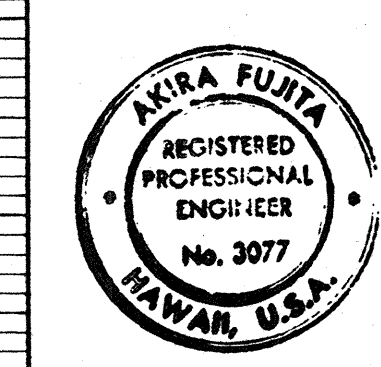
MATCH LINE STA. 330+00

- NOTES:**
1. For Legend, See the First Plan and Profile Sheet.
 2. For "V" Type Ditch Transition, See Drainage Detail Sheet.
 3. For Rock Wall Detail, See Typical Section Sheet.
 4. For Driveway Information, See Driveway Detail Sheet.
 5. Scarify and Remove Existing Pavement Outside of New Roadway.

PLAN



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

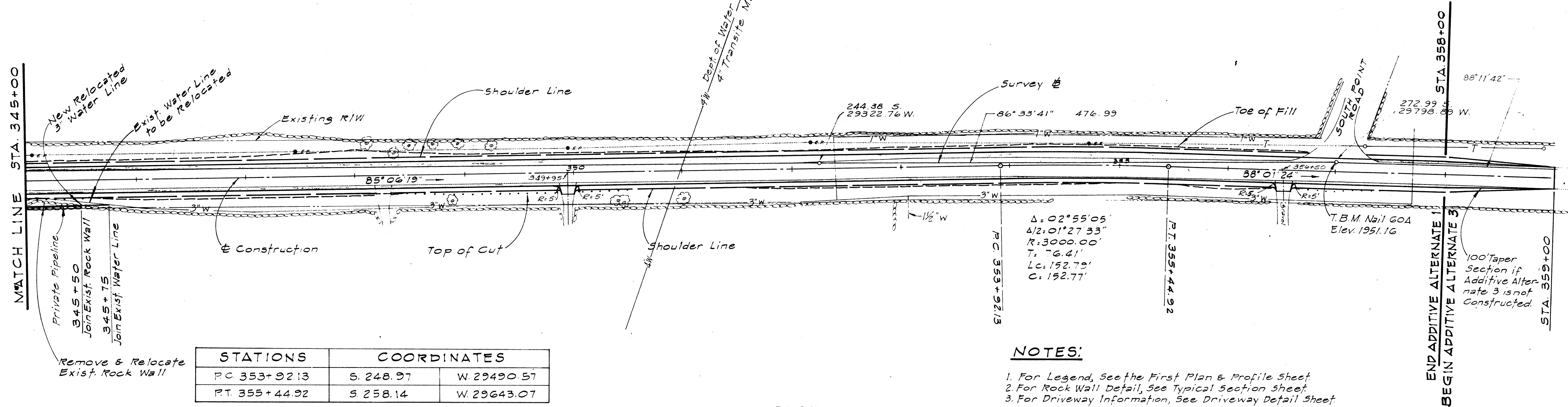


REVISION	DATE	BRIEF	MADE BY	APPROVED
DMJM DANIEL, MANN, JOHNSON, & MENDENHALL 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS DEPT. OF PUBLIC WORKS COUNTY OF HAWAII HILO, HAWAII KAHUKU TO HONUAPO HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 330+00 TO STA. 345+00 Scale: As Shown Date: MAY, 1972 APPROVED BY: <i>Arthur J. Demott</i> DATE 6/9/72 CHIEF ENGINEER <i>Richard T. Tanaka</i> DATE 6/9/72 BUREAU HEAD DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S. SHEET NO. 13 OF 31 SHTS.				

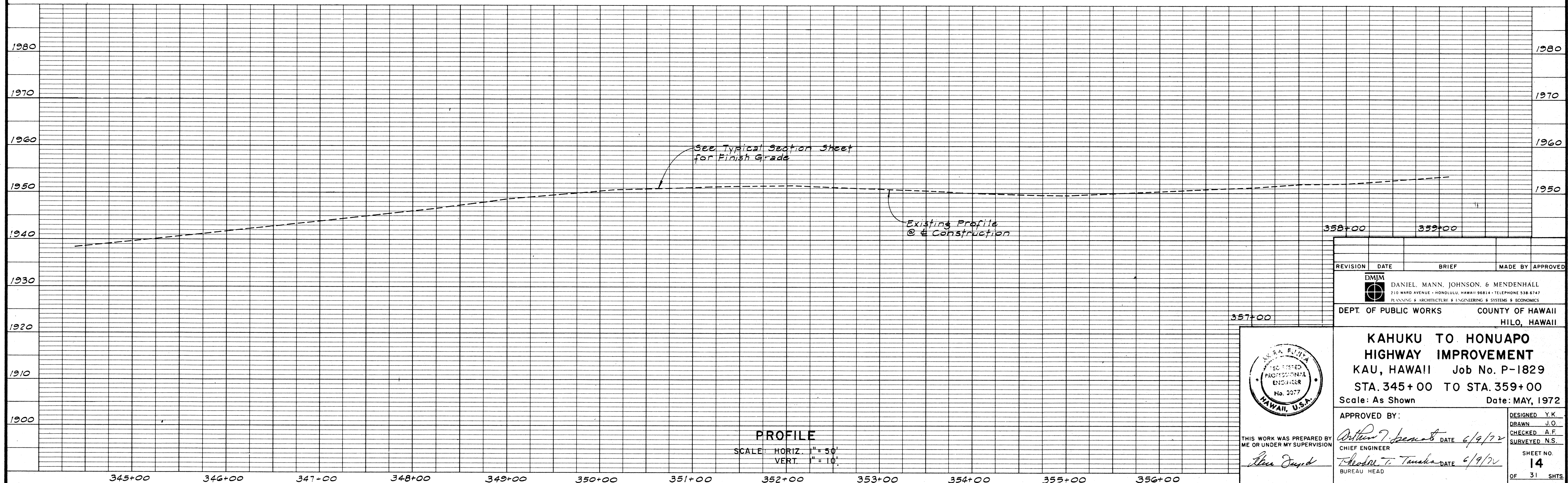
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

WATER NOTE

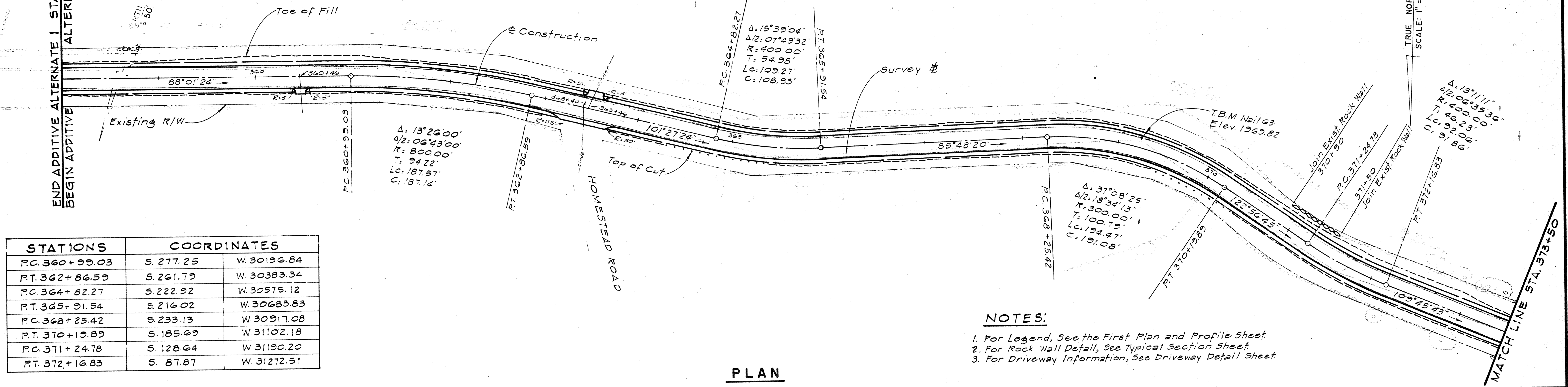
The Existing 4" Transite Main Location Shown Are Only Approximate and The Contractor Shall Verify the Exact Location in the Field. The Department of Water Supply Kau Maintenance Man Should be Notified to Help Find the Exact location. Any Adjustment of the pipeline shall be Done by The Contractor and Shall be Incidental to Other Items.



PLAN



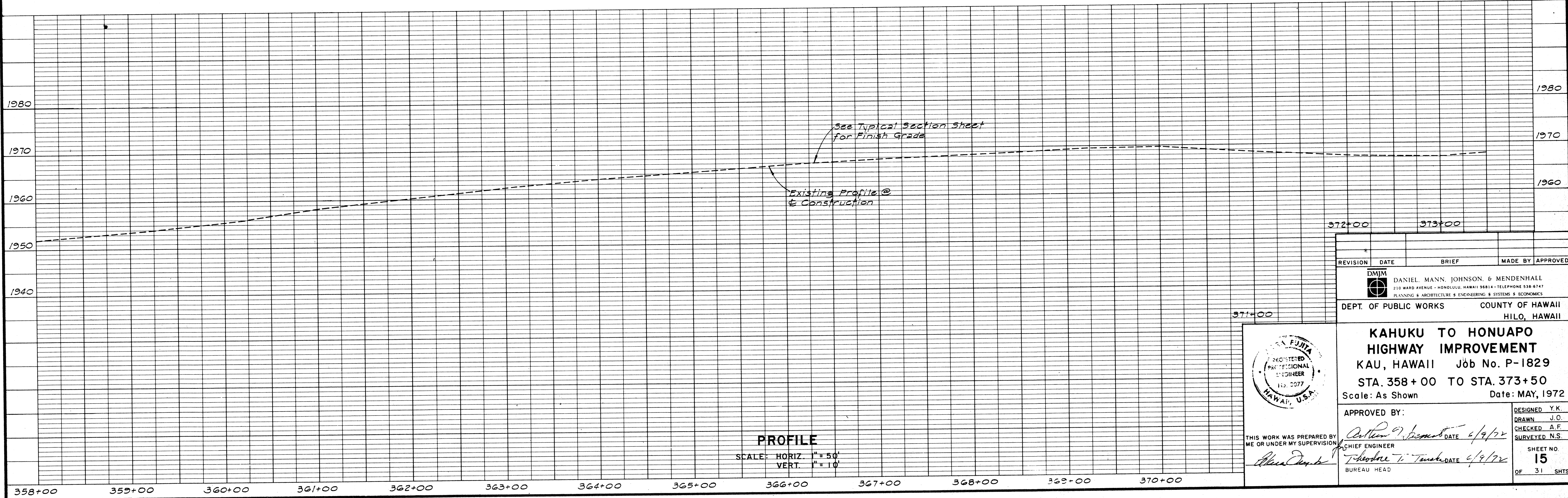
END ADDITIVE ALTERNATE 1 STA. 358+00
BEGIN ADDITIVE ALTERNATE 3



STATIONS	COORDINATES	
P.C. 360+99.03	S. 277.25	W. 30196.84
P.T. 362+86.59	S. 261.79	W. 30383.34
P.C. 364+82.27	S. 222.92	W. 30575.12
P.T. 365+91.54	S. 216.02	W. 30683.83
P.C. 368+25.42	S. 233.13	W. 30917.08
P.T. 370+19.89	S. 185.69	W. 31102.18
P.C. 371+24.78	S. 128.64	W. 31190.20
P.T. 372+16.83	S. 87.87	W. 31272.51

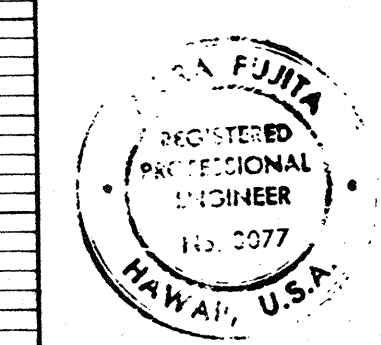
- NOTES:**
1. For Legend, See the First Plan and Profile Sheet.
 2. For Rock Wall Detail, See Typical Section Sheet.
 3. For Driveway Information, See Driveway Detail Sheet.

PLAN



PROFILE

REVISION	DATE	BRIEF	MADE BY	APPROVED
DMJM DANIEL, MANN, JOHNSON, & MENDENHALL 210 WARD AVENUE - HONOLULU, HAWAII 96814 - TELEPHONE 538-6747 PLANNING & ARCHITECTURE & ENGINEERING & SYSTEMS & ECONOMICS DEPT. OF PUBLIC WORKS COUNTY OF HAWAII HILO, HAWAII KAHUKU TO HONUAPU HIGHWAY IMPROVEMENT KAU, HAWAII Job No. P-1829 STA. 358+00 TO STA. 373+50 Scale: As Shown Date: MAY, 1972 APPROVED BY: <i>Arthur J. Bennett</i> DATE 4/9/72 CHIEF ENGINEER <i>Richard T. Tushnet</i> DATE 4/9/72 BUREAU HEAD DESIGNED Y.K. DRAWN J.O. CHECKED A.F. SURVEYED N.S. SHEET NO. 15 OF 31 SHTS				



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NOTES:

1. For Legend, See the First Plan and Profile Sheet.
2. For Driveway Information, See Driveway Detail Sheet.

