

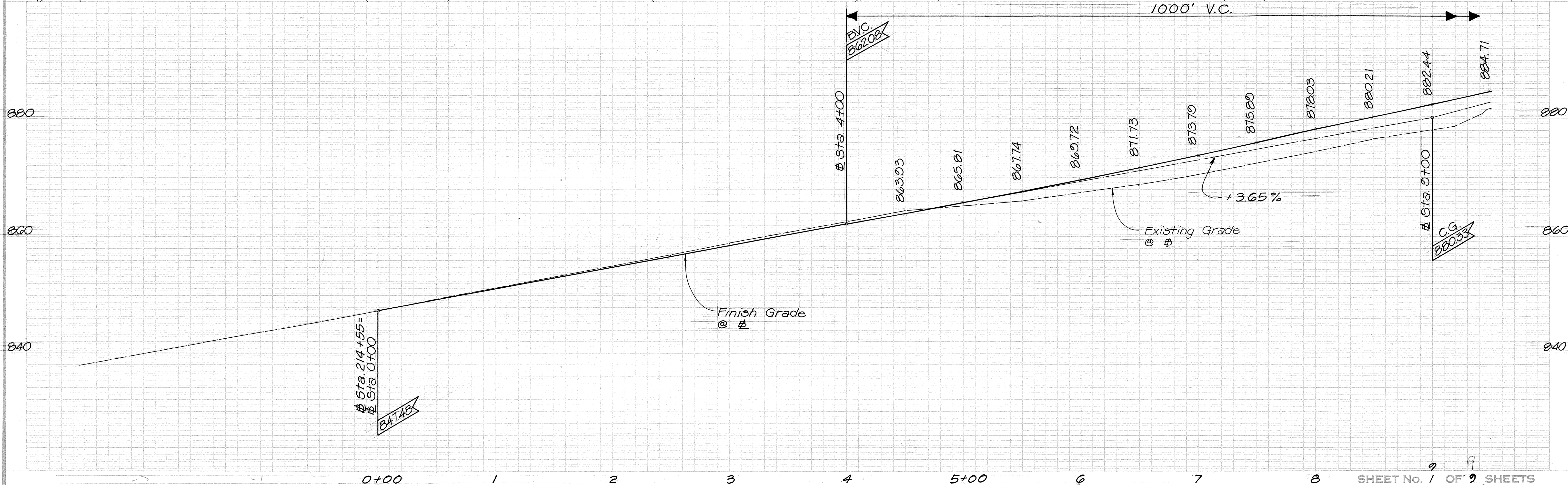
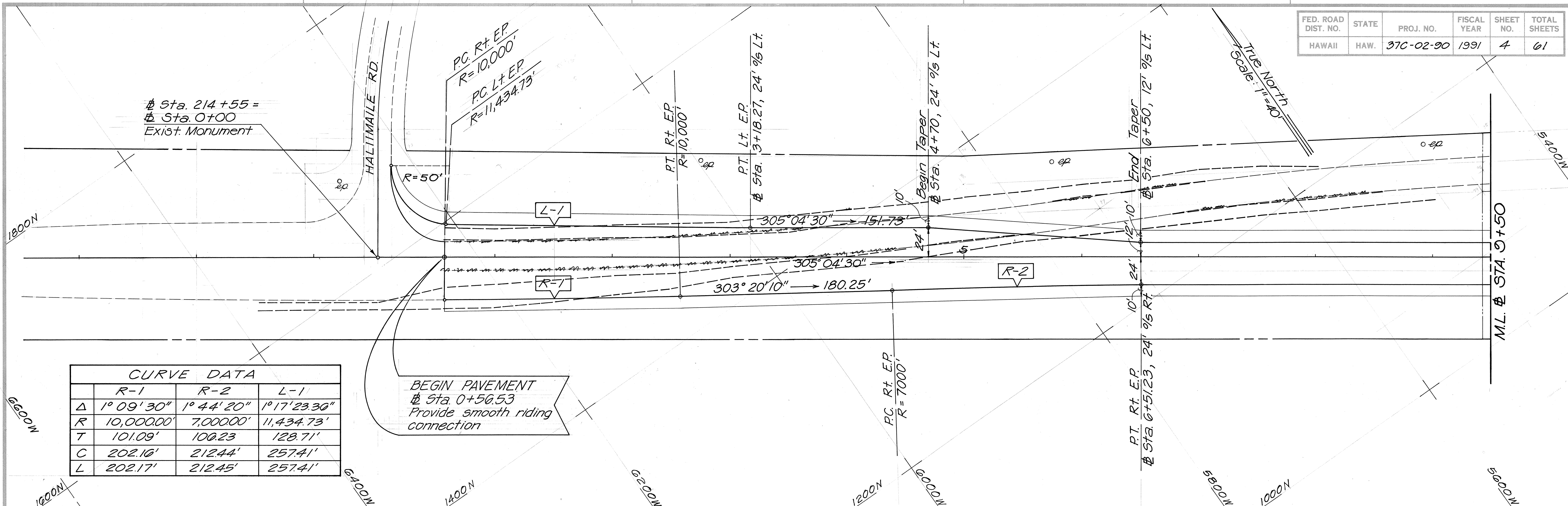
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	4	61

True North
Scale: 1"=40'

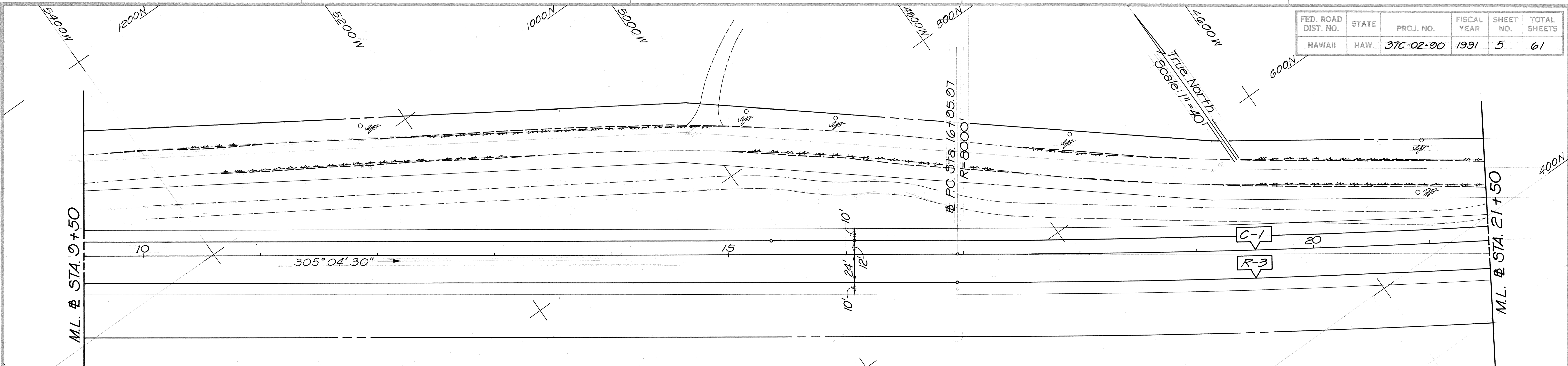
Sta. 214+55 =
Sta. 0+00
Exist. Monument

CURVE DATA			
	R-1	R-2	L-1
Δ	1° 09' 30"	1° 44' 20"	1° 17' 23.30"
R	10,000.00'	7,000.00'	11,434.73'
T	101.09'	100.23'	129.71'
C	202.16'	212.44'	257.41'
L	202.17'	212.45'	257.41'

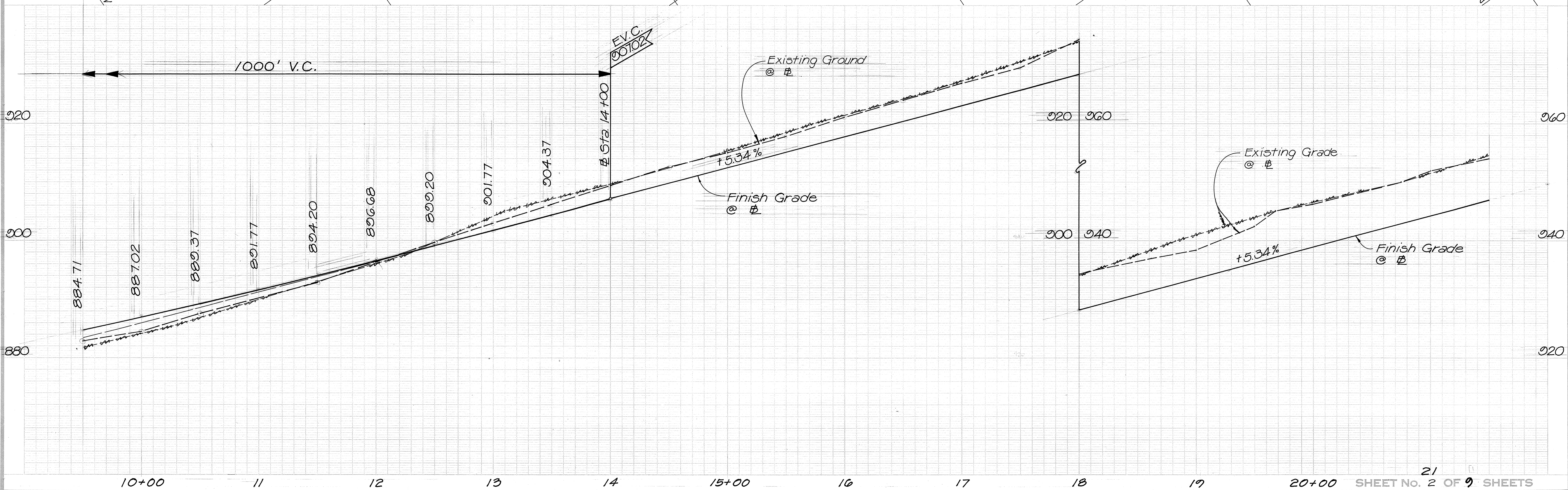
BEGIN PAVEMENT
Sta. 0+50.53
Provide smooth riding connection



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-20	1991	5	61

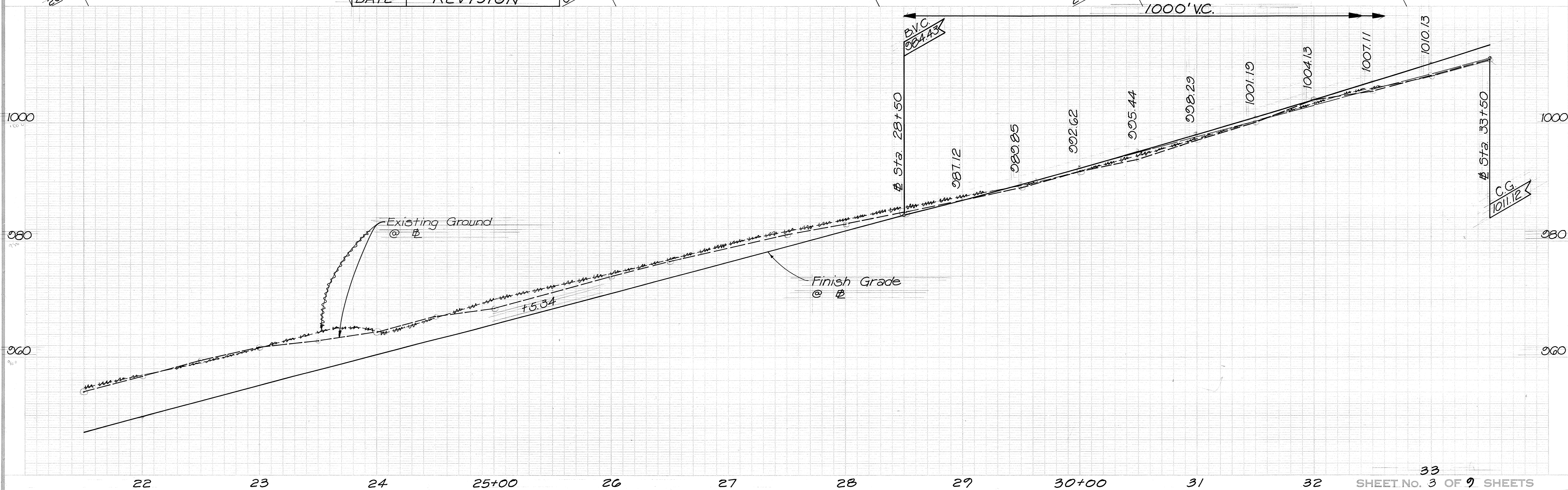
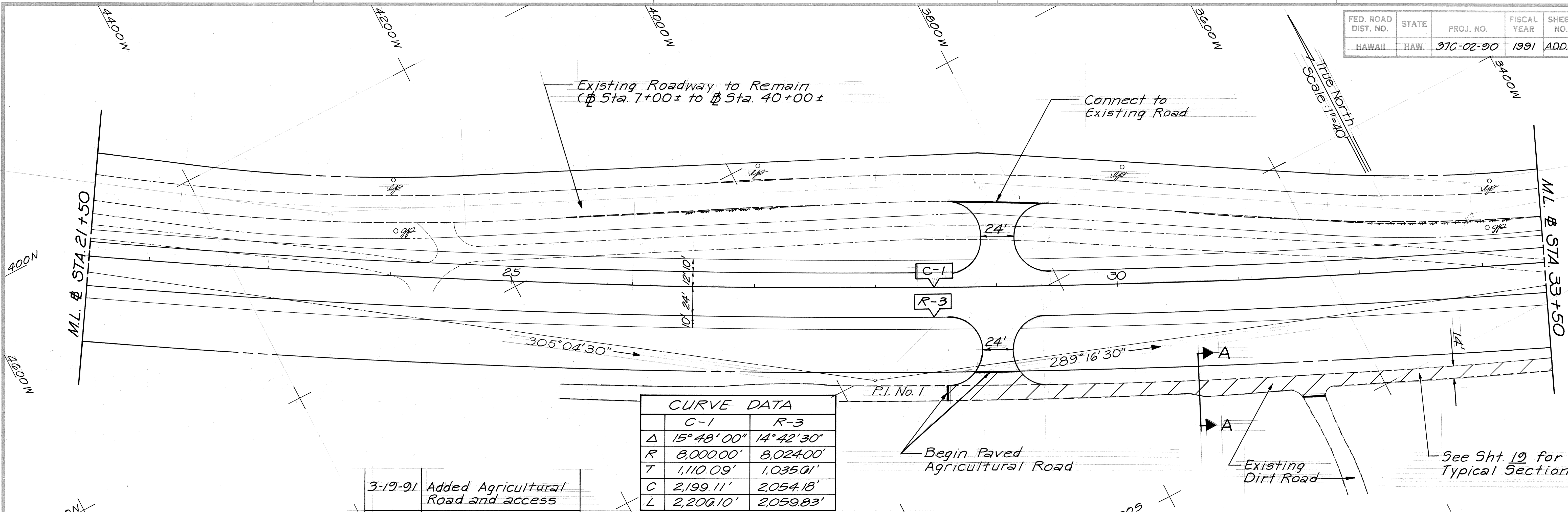


CURVE DATA		
	C-1	R-3
Δ	15° 48' 00"	14° 42' 30"
R	8,000.00'	8,024.00'
T	1,110.09'	1,035.01'
C	2,199.11'	2,054.18'
L	2,206.10'	2,059.83'

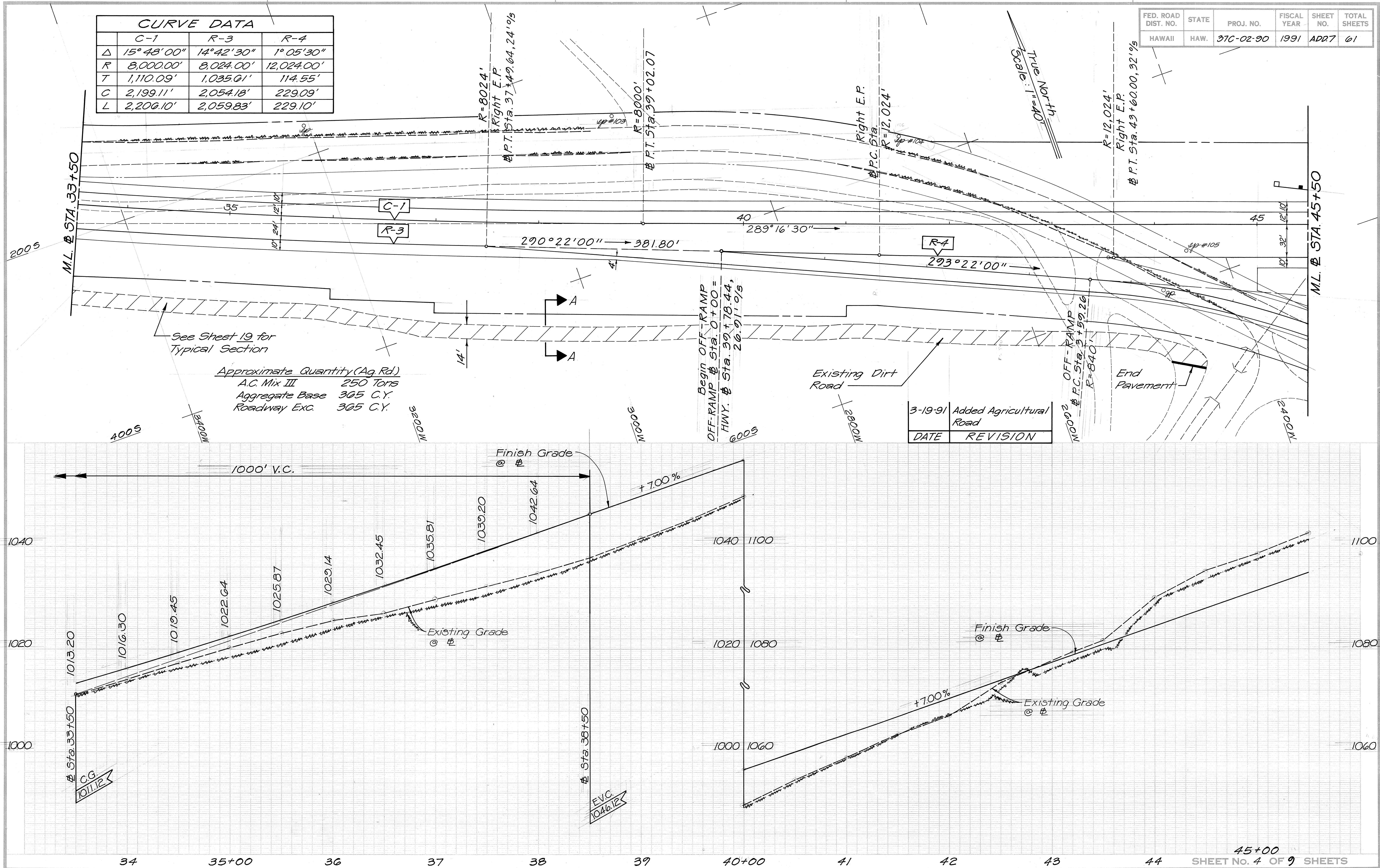


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	ADD.6	61



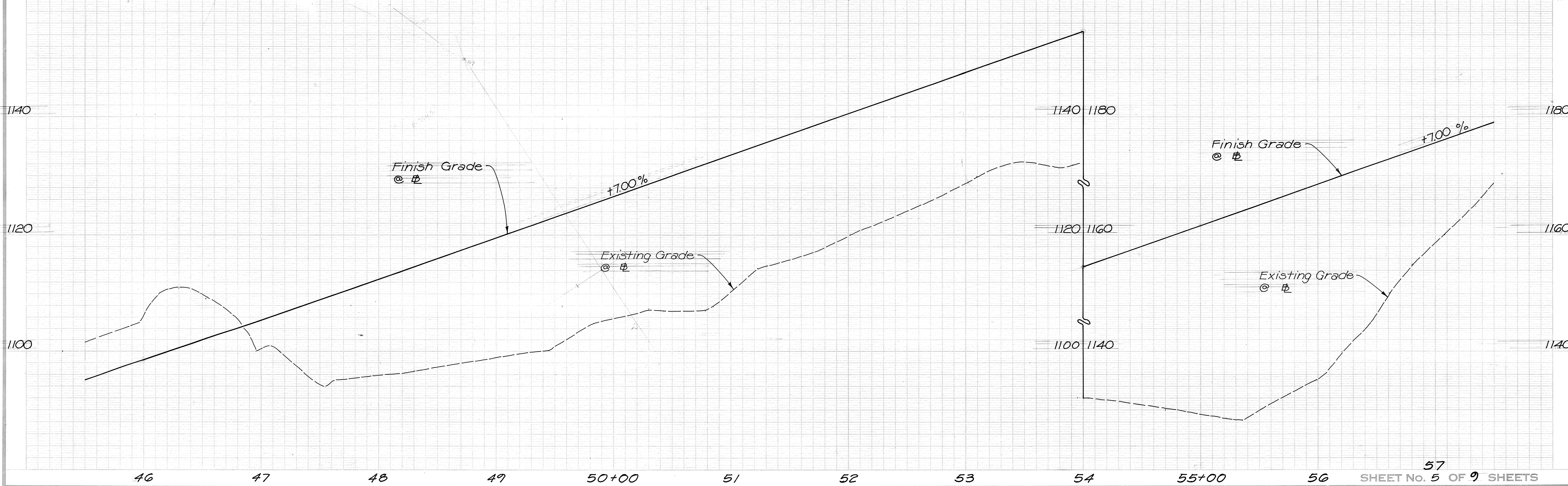
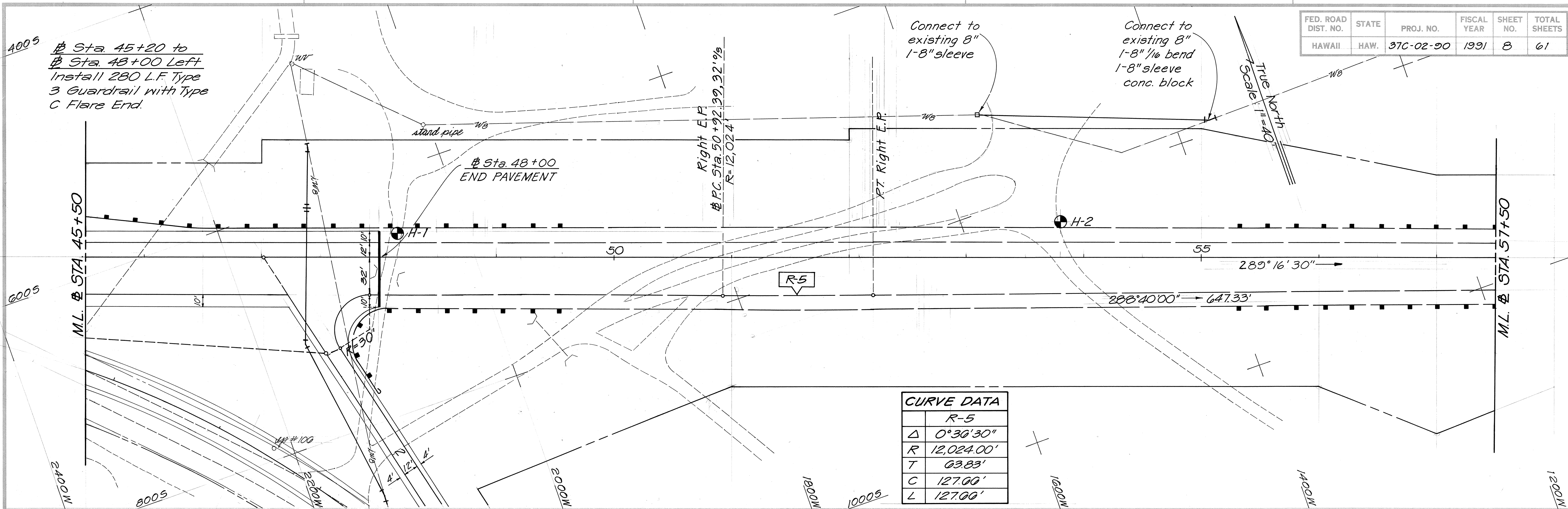
CURVE DATA			
	C-1	R-3	R-4
Δ	15° 48' 00"	14° 42' 30"	1° 05' 30"
R	8,000.00'	8,024.00'	12,024.00'
T	1,110.09'	1,035.61'	114.55'
C	2,199.11'	2,054.18'	229.09'
L	2,206.10'	2,059.83'	229.10'



45+00
SHEET No. 4 OF 9 SHEETS

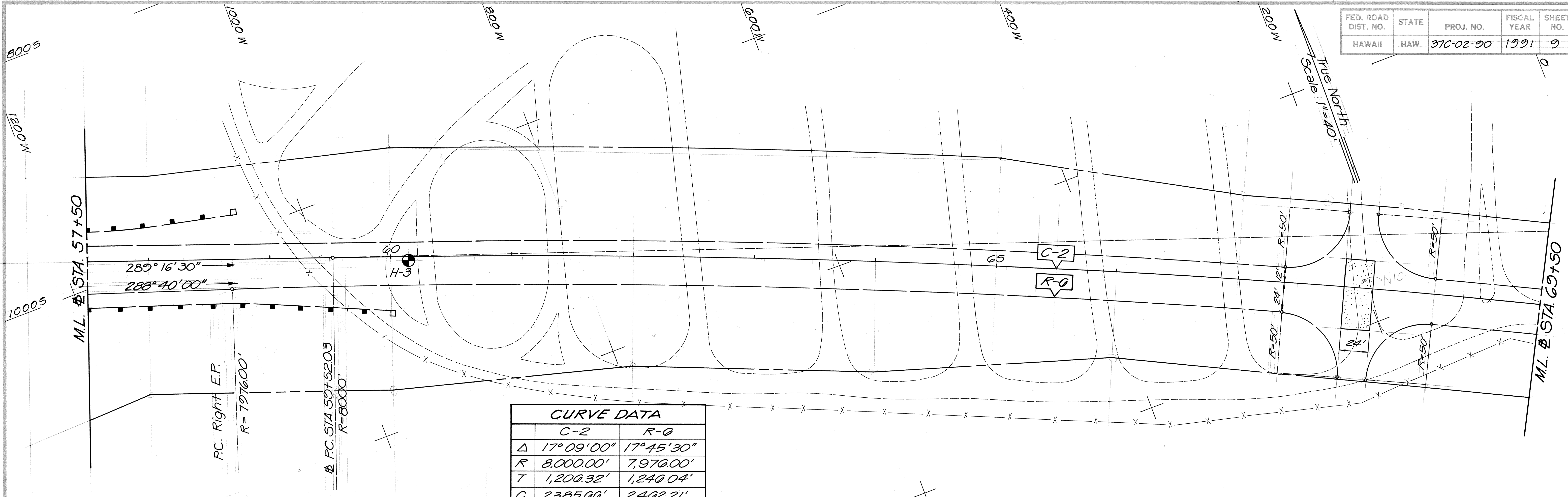
ADD.7

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-20	1991	8	61

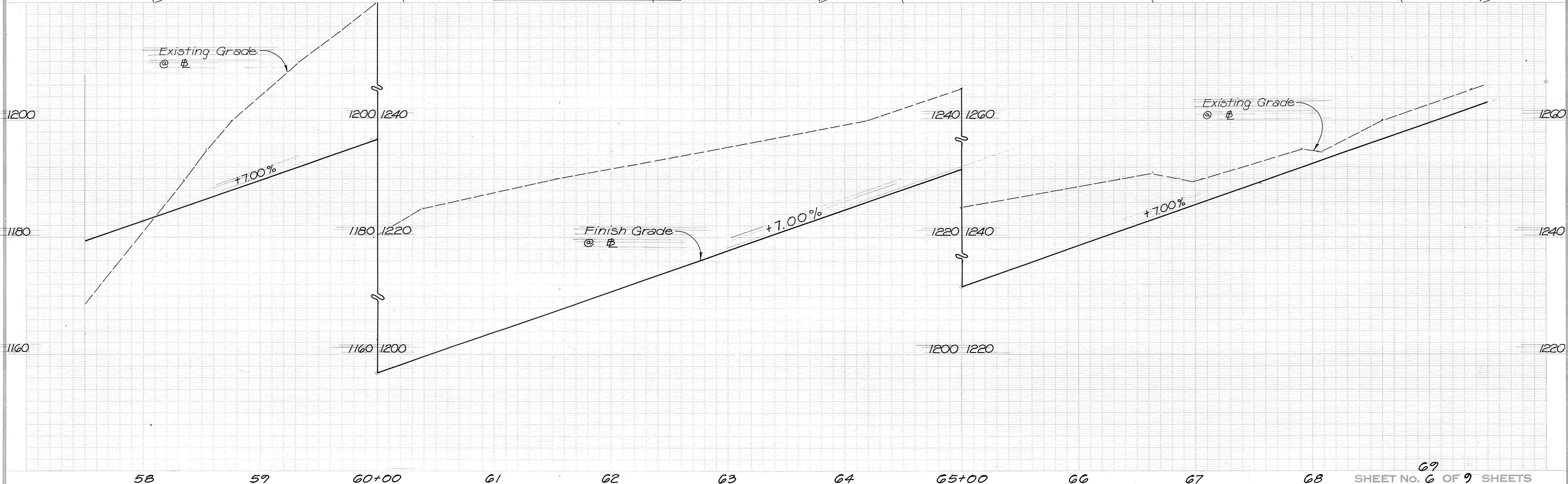


SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	9	61

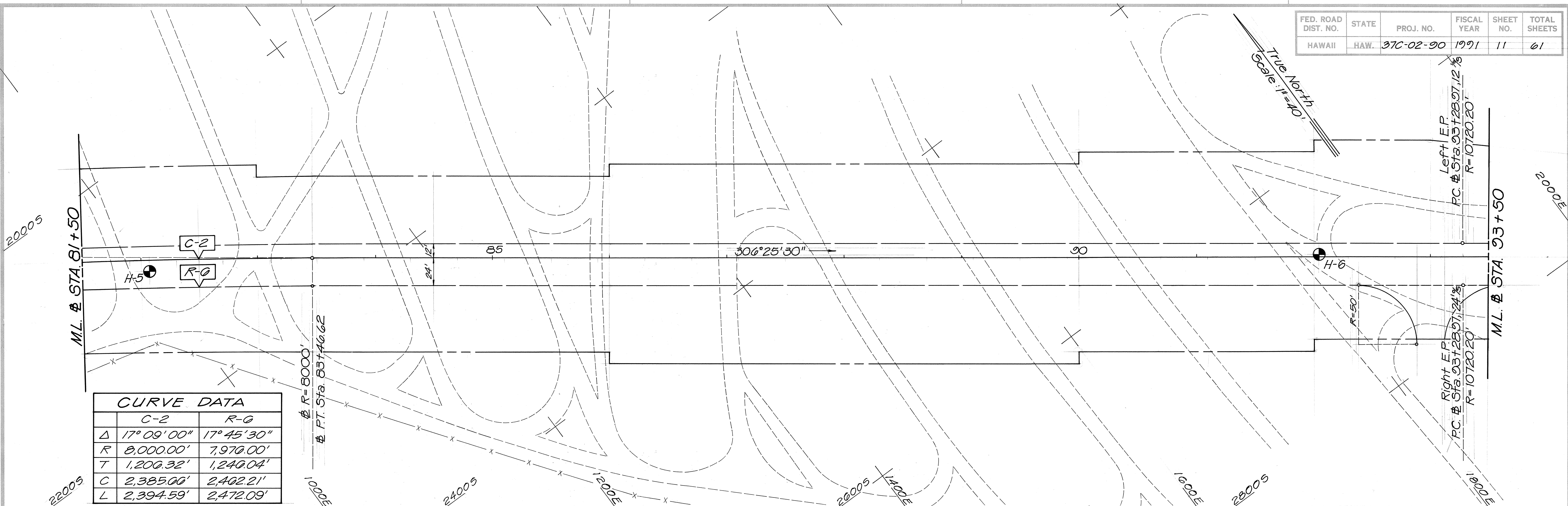


CURVE DATA		
	C-2	R-0
Δ	17° 09' 00"	17° 45' 30"
R	8,000.00'	7,976.00'
T	1,200.32'	1,240.04'
C	2,385.00'	2,402.21'
L	2,394.59'	2,472.09'

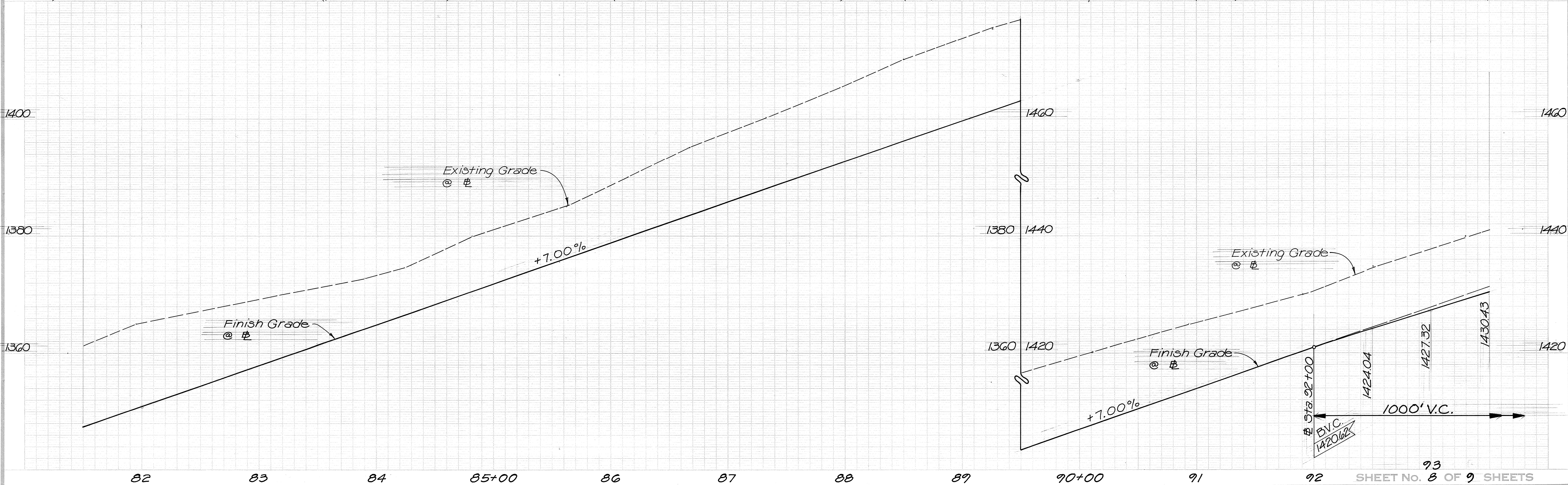


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	
NO.	TRACED BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	11	61



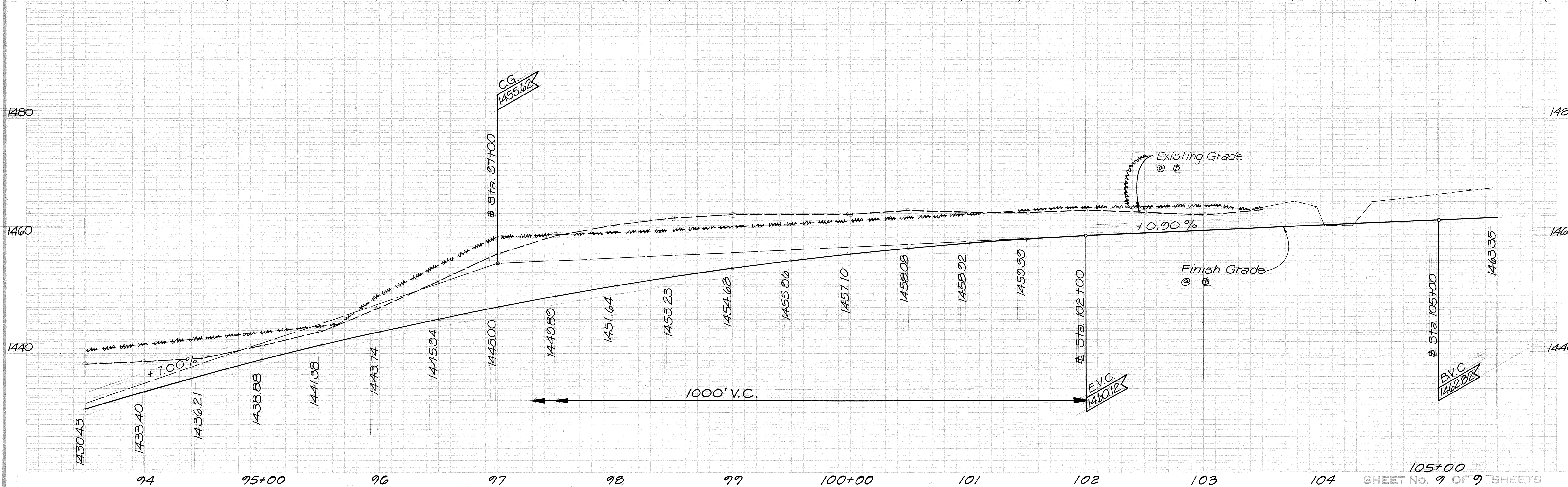
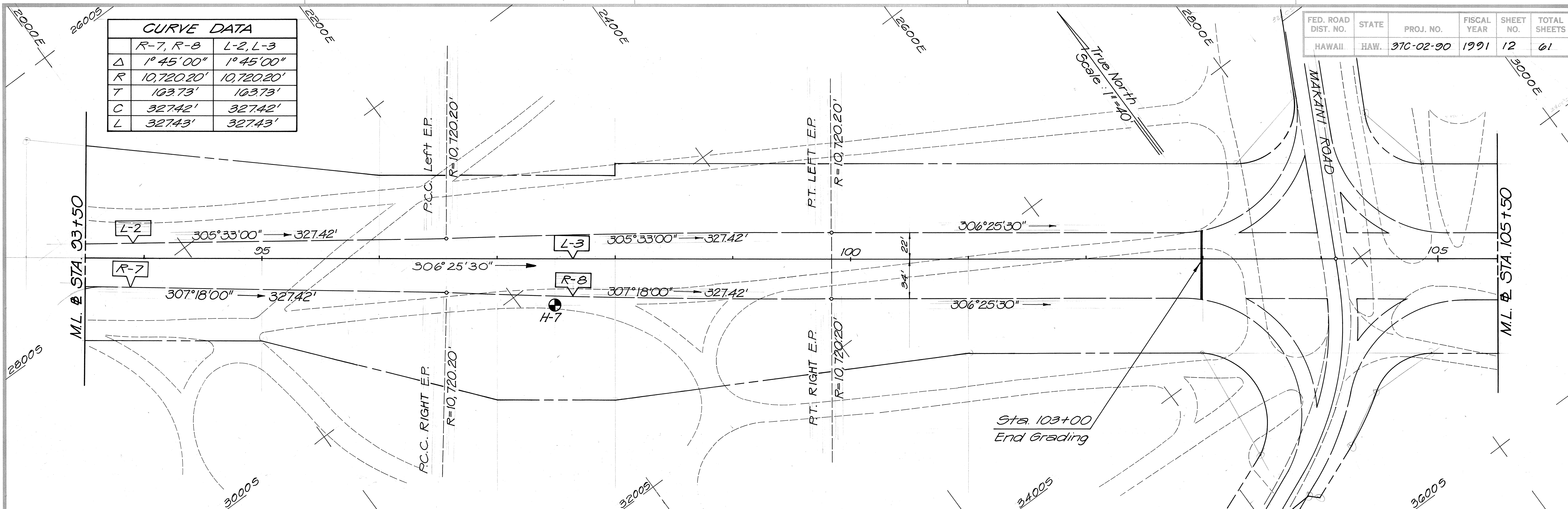
CURVE DATA		
	C-2	R-0
Δ	17°09'00"	17°45'30"
R	8,000.00'	7,970.00'
T	1,200.32'	1,240.04'
C	2,385.00'	2,402.21'
L	2,394.59'	2,472.09'



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

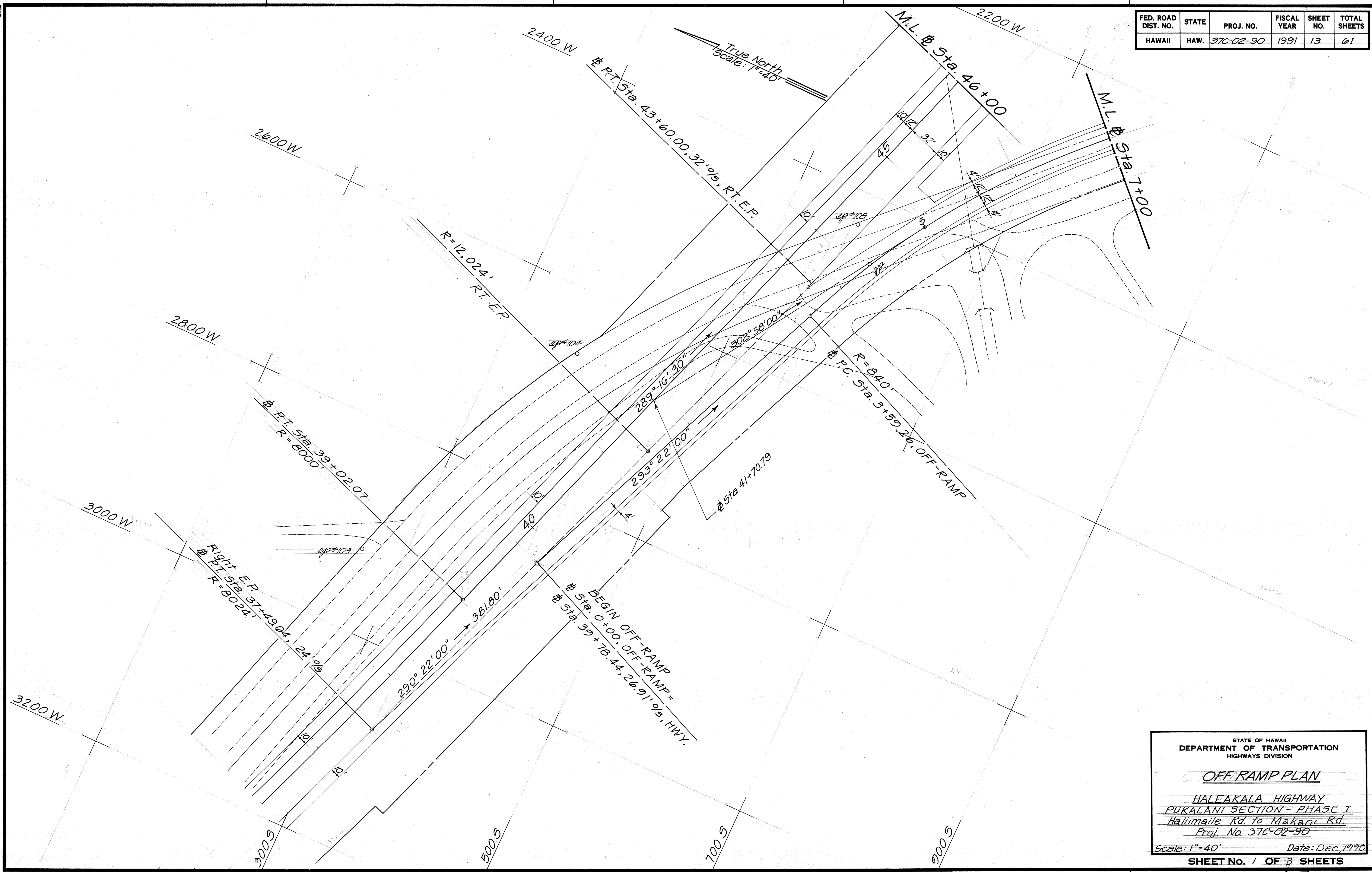
CURVE DATA		
	R-7, R-8	L-2, L-3
Δ	1° 45' 00"	1° 45' 00"
R	10,720.20'	10,720.20'
T	103.73'	103.73'
C	327.42'	327.42'
L	327.43'	327.43'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	12	61



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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	13	01



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

OFF RAMP PLAN

HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE I
Halimaile Rd. to Makani Rd.
Proj. No. 37C-02-90

Scale: 1"=40' Date: Dec. 1990

SHEET No. 1 OF 3 SHEETS

Notes for Adjusting Existing Irrigation Water Main:

1. Unless otherwise specified all materials and construction of irrigation water facilities and appurtenances shall be in accordance with the Hawaii Standard Specifications for Road and Bridge Construction, date 1985 as amended of the Highways Division, Dept. of Transportation.
2. The Contractor shall coordinate this work with Maui Pineapple Company Ltd.
3. Before connections are made to the existing line, Testing of new irrigation lines shall be done in the presence of a representative of Maui Pineapple Co., Ltd. and the Engineer. Payment will be incidental to the appropriate items.
4. The existence and location of the existing underground facilities as shown on the plans is not guaranteed as to the accuracy. The Contractor shall be responsible for all damages to the existing system.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	14	61

True North
Scale: 1"=40'

CURVE DATA

$\Delta = 21^\circ 42' 00''$
 $R = 573.70'$
 $T = 109.96'$
 $C = 215.98'$
 $L = 217.28'$

CURVE DATA

$\Delta = 18^\circ 29' 00''$
 $R = 764.50'$
 $T = 124.39'$
 $C = 245.56'$
 $L = 246.62'$

$R = 764.50'$
P.C. Sta. 6+39.95

Maui Pine Driveway

Maui Pine AC Driveway

Sta. 5+80 ON-RAMP
END NEW PAVEMENT
Provide smooth riding connection.

Sta. 2+32.25' 1/2 R. ON-RAMP
Connect to existing 8" irrigation water line.
1-8" 1/2 bend (H)
1-8" sleeve
conc. block

Sta. 0+00 ON-RAMP =
Sta. 47+02.24

Sta. 47+38.94' 1/2 L.
Connect to existing 8" irrigation water line
1-8" 1/2 bend (HBV)
1-8" sleeve
conc. block

Sta. 48+00
END PAVEMENT

Sta. 0+81.11' 1/2 R. ON-RAMP
1-8" 1/2 bend (H)
conc. block
(Inv. = 1103.0)

CURVE DATA

$\Delta = 53^\circ 06' 00''$
 $R = 840.00'$
 $T = 419.72'$
 $C = 750.92'$
 $L = 778.40'$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

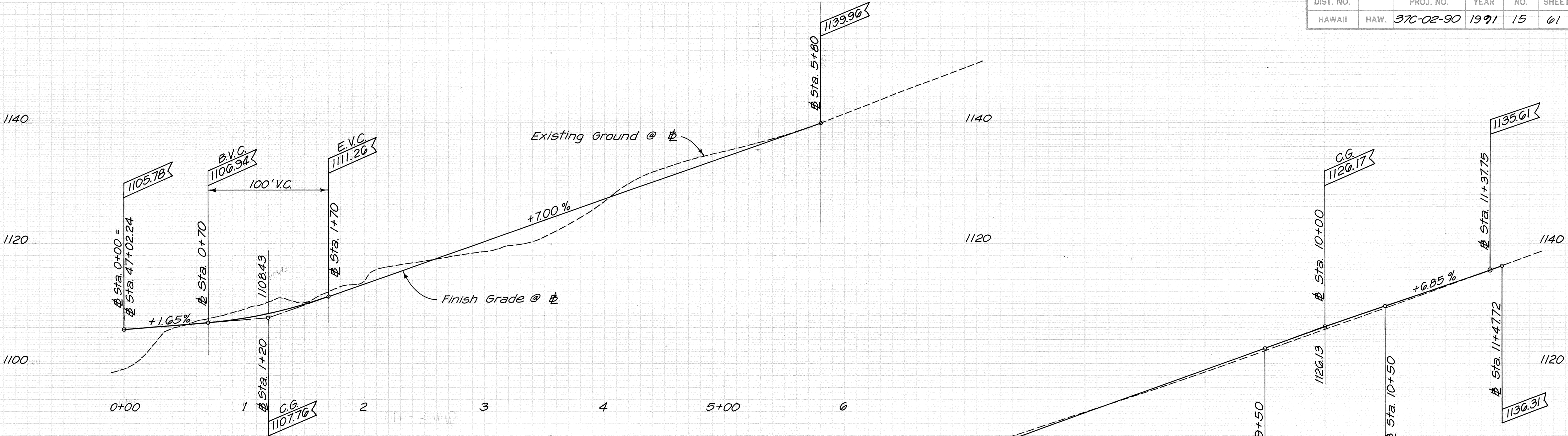
ON AND OFF RAMP PLAN

HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE I
Haliimaile Rd. to Makani Rd.
Proj. No. 37C-02-90

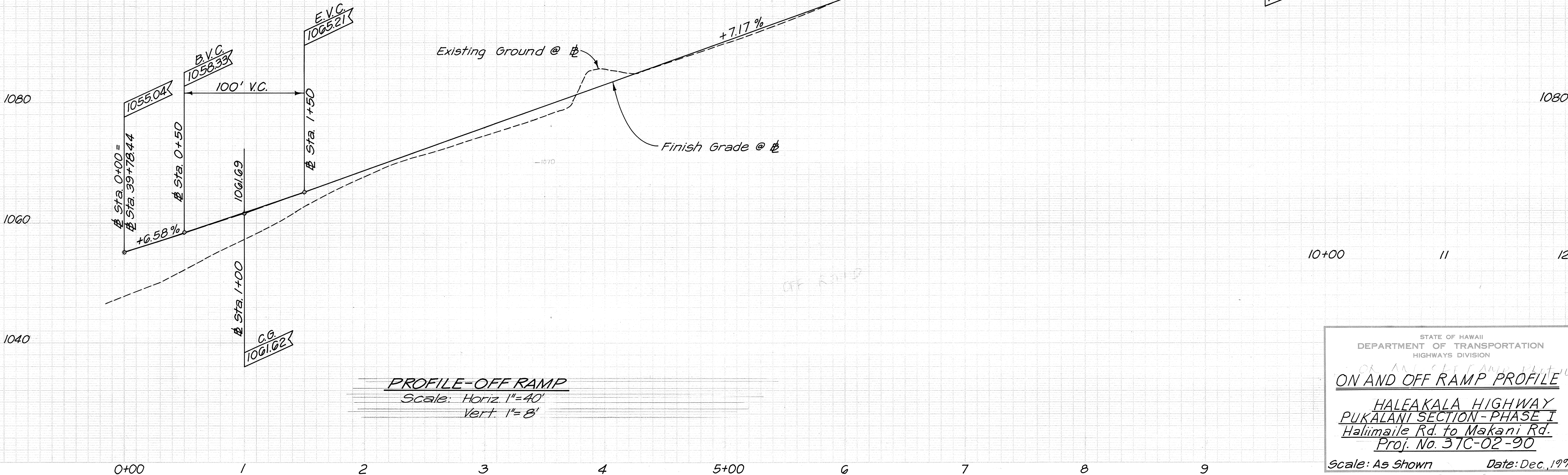
Scale: 1"=40' Date: Dec., 1990

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-90	1991	15	61



PROFILE-ON RAMP
Scale: Horiz 1"=40'
Vert. 1"=8'



PROFILE-OFF RAMP
Scale: Horiz 1"=40'
Vert. 1"=8'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ON AND OFF RAMP PROFILE

HALEAKALA HIGHWAY
PUKALANI SECTION - PHASE I
Haliimaile Rd. to Makani Rd.
Proj. No. 37C-02-90

Scale: As Shown Date: Dec. 1990

SHEET No. 3 OF 3 SHEETS