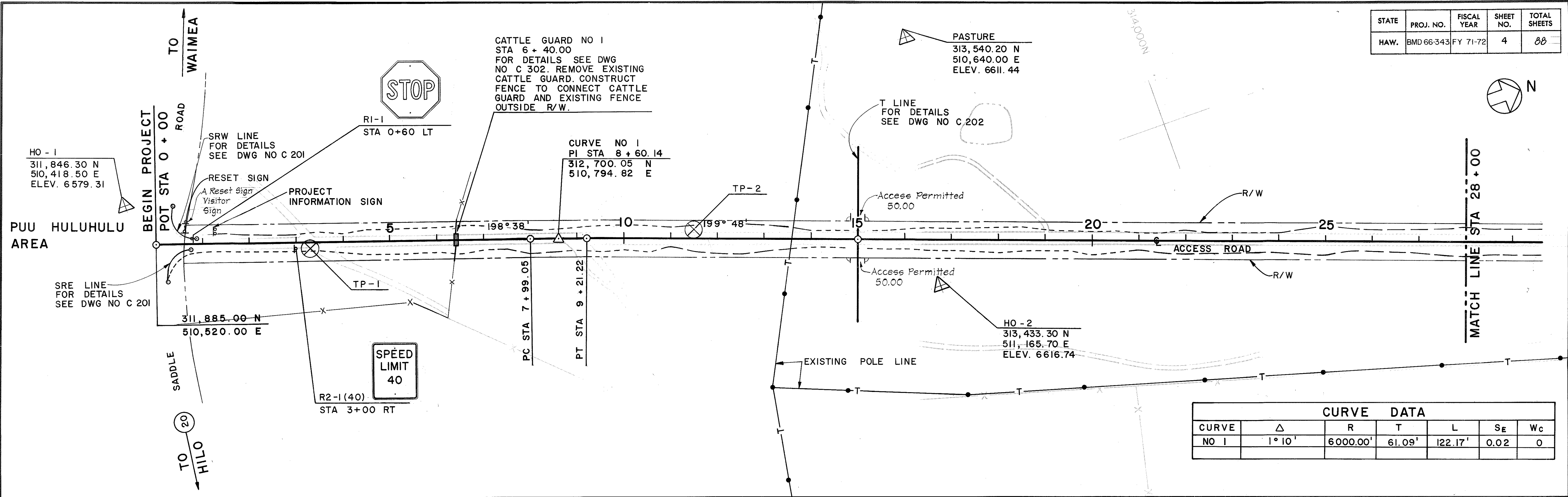


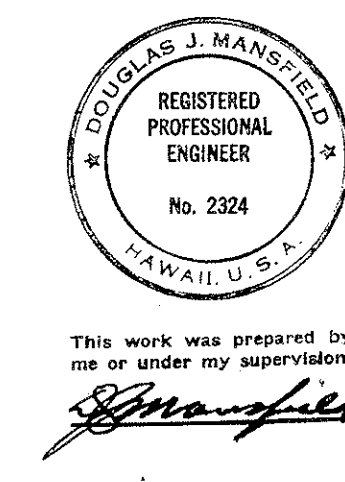
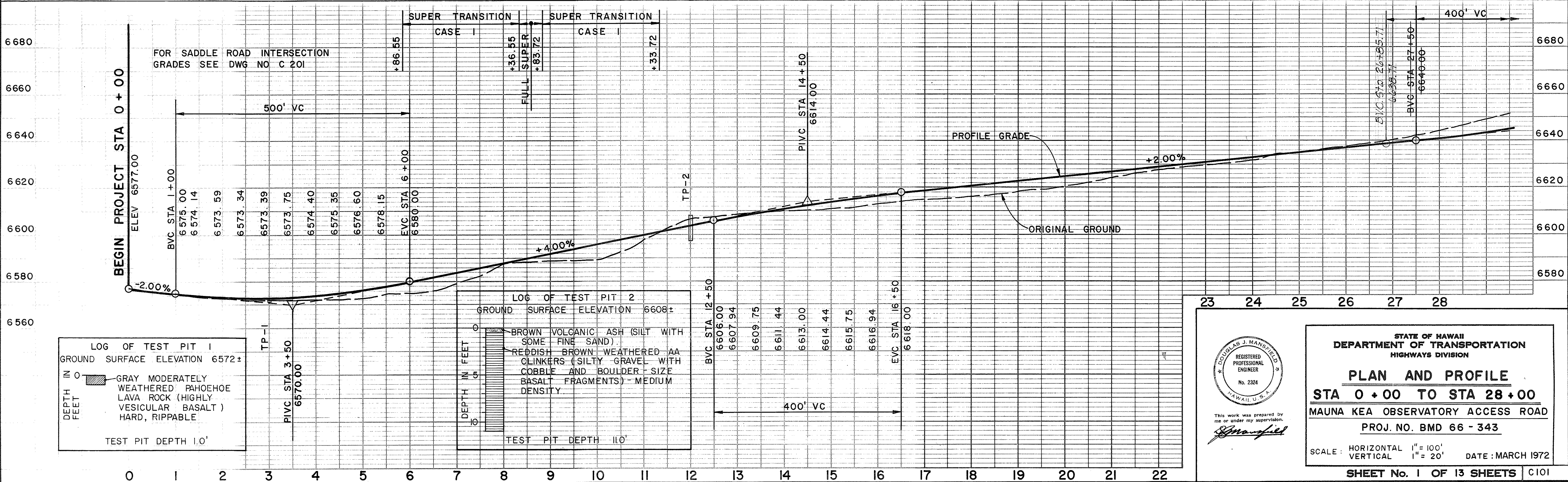
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	4	88



PLAN	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO.		



PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO.		



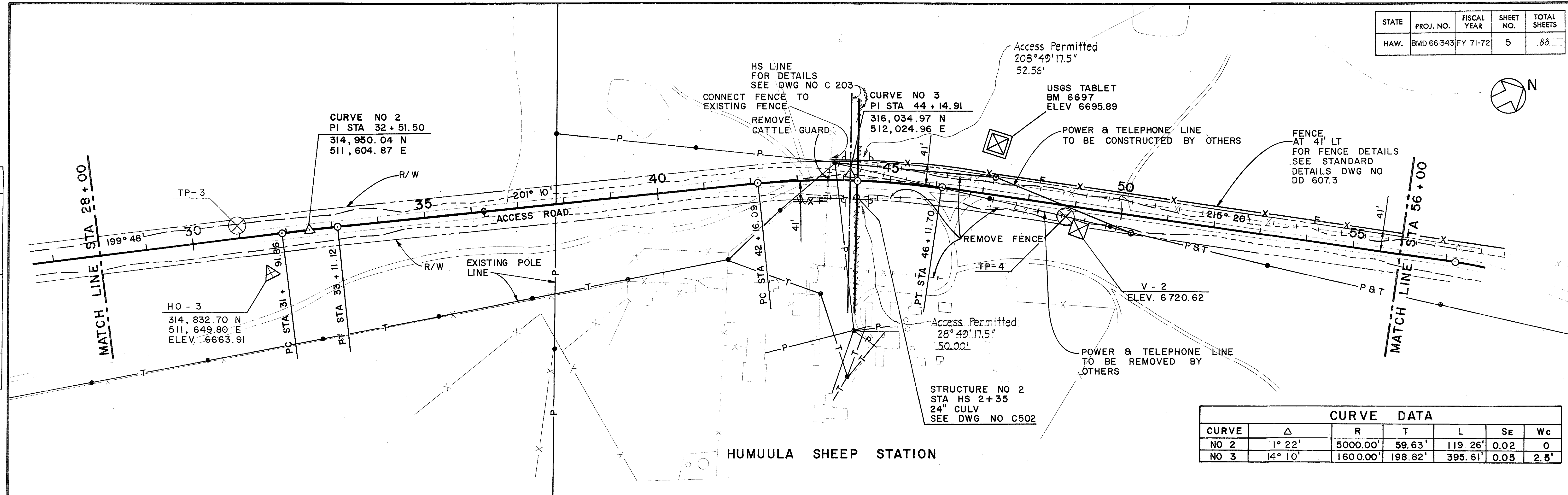
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 0 + 00 TO STA 28 + 00
MAUNA KEA OBSERVATORY ACCESS ROAD
PROJ. NO. BMD 66 - 343

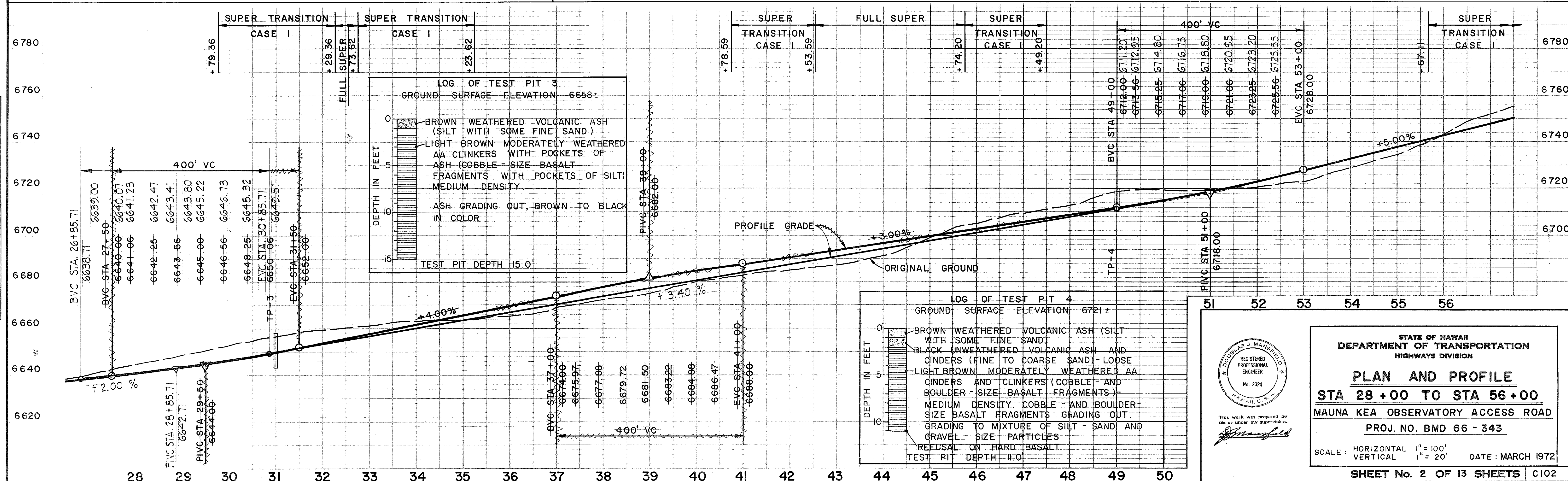
SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

SHEET No. 1 OF 13 SHEETS C101



PROFILE		BY	DATE
	SURVEYED.....		
	PLOTTED.....		
	GRADES CHECKED.....		
	B. M.'S NOTED.....		
	STRUCTURE NOTAT'NS CH'KD.....		
	NO.....		



DOUGLAS J. MANSFIELD
REGISTERED
PROFESSIONAL
ENGINEER
No. 2324
HAWAII, U. S. A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE

STA 28 + 00 TO STA 56 + 00

MAUNA KEA OBSERVATORY ACCESS ROAD

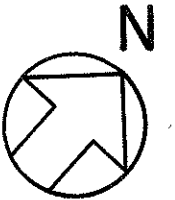
PROJ. NO. BMD 66 - 343

SCALE : HORIZONTAL 1" = 100'
 VERTICAL 1" = 20' DATE : MARCH 1972

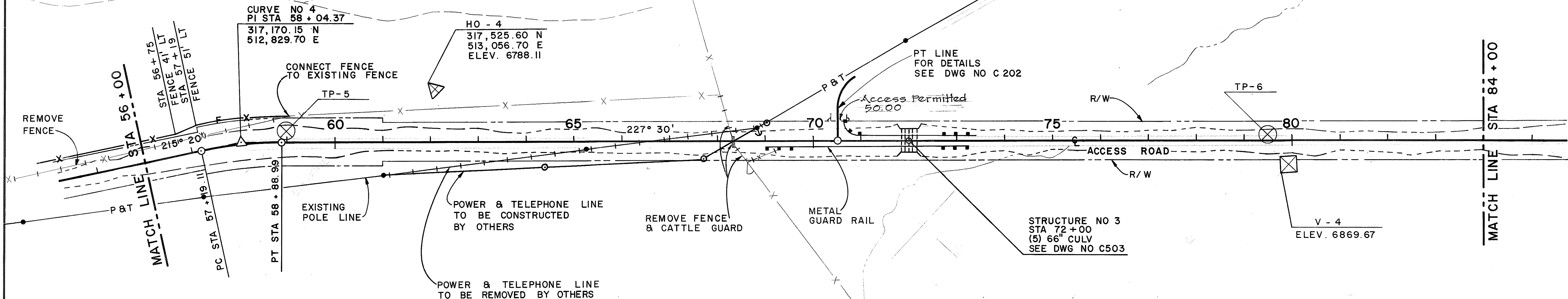
SHEET No. 2 OF 13 SHEETS C102

CURVE DATA						
CURVE	Δ	R	T	L	SE	WG
NO 4	12° 10'	800.00'	85.26'	169.88'	0.08	3.0'

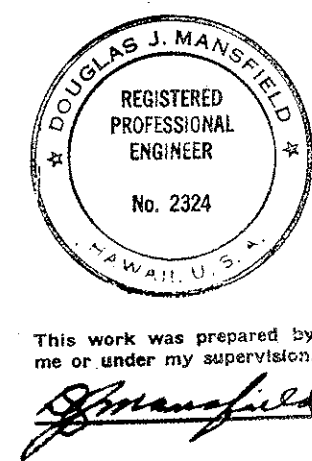
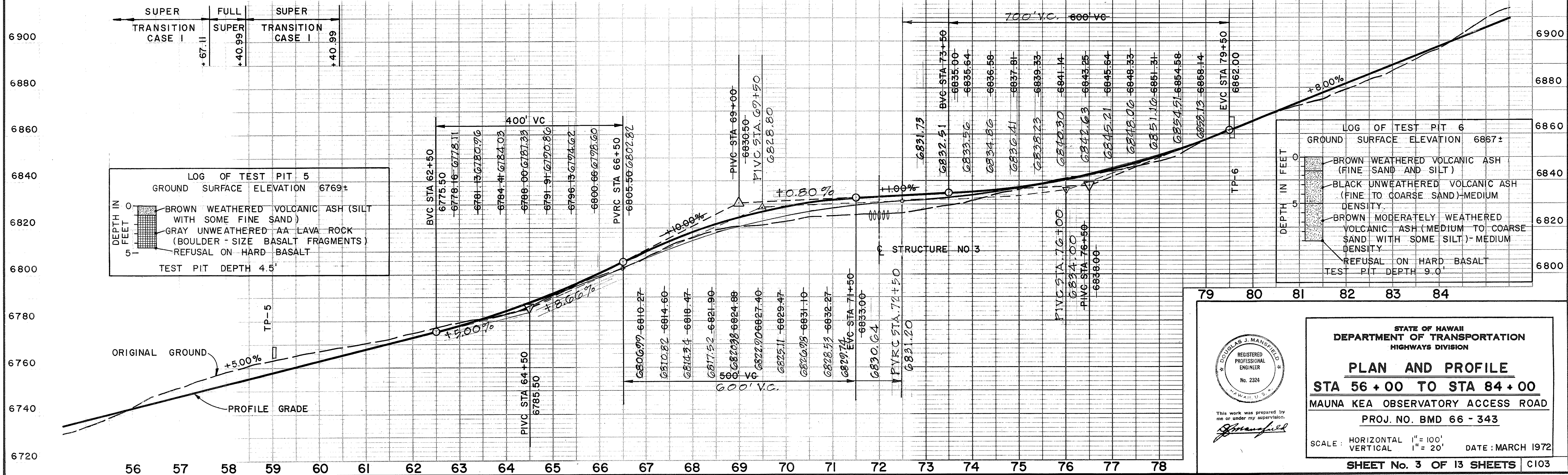
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	6	88



PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		



PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN AND PROFILE
STA 56+00 TO STA 84+00
MAUNA KEA OBSERVATORY ACCESS ROAD
PROJ. NO. BMD 66 - 343

SCALE: HORIZONTAL 1" = 100'
 VERTICAL 1" = 20'

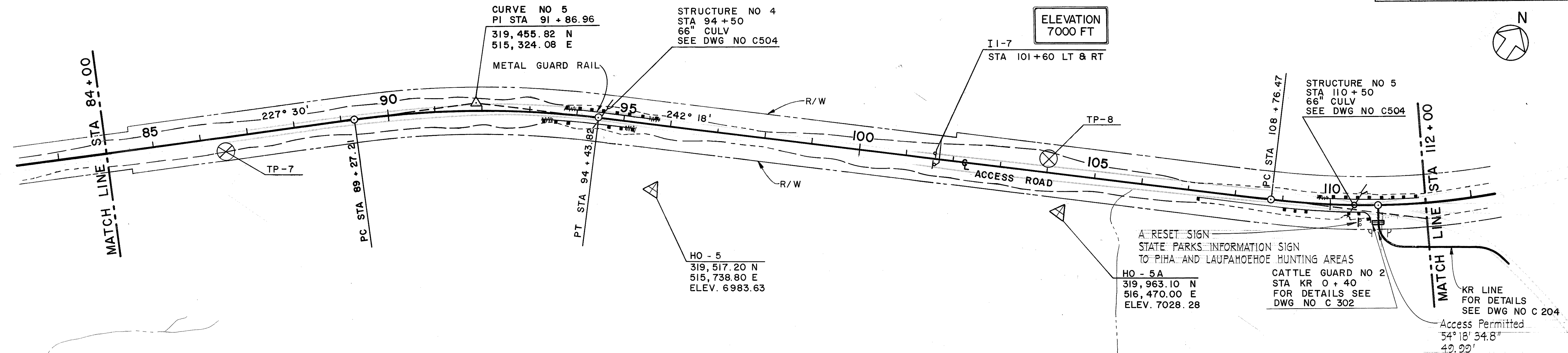
DATE: MARCH 1972

SHEET No. 3 OF 13 SHEETS C103

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	7	88

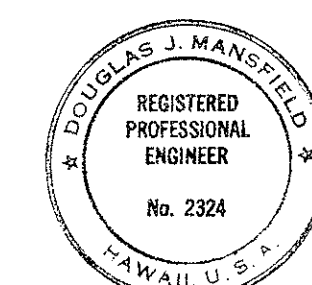
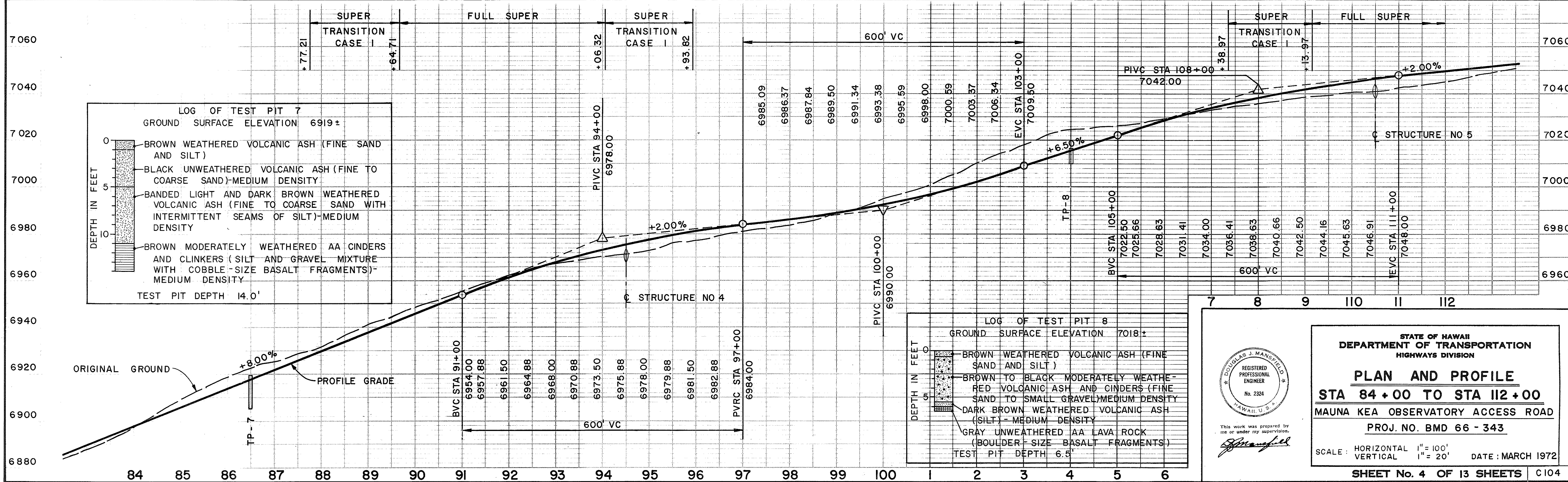


PLAN	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		



CURVE DATA						
CURVE	Δ	R	T	L	S_E	W_C
NO 5	14° 48'	2000.00'	259.75'	516.62'	0.04	2.0'

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKO.		
NO.		



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 84 + 00 TO STA 112 + 00
MAUNA KEA OBSERVATORY ACCESS ROAD

PROJ. NO. BMD 66 - 343

SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

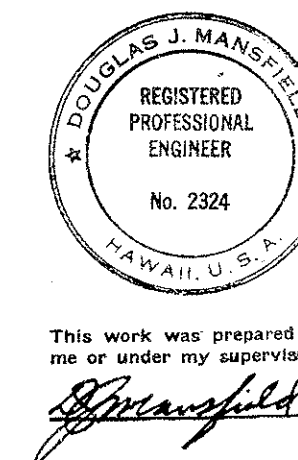
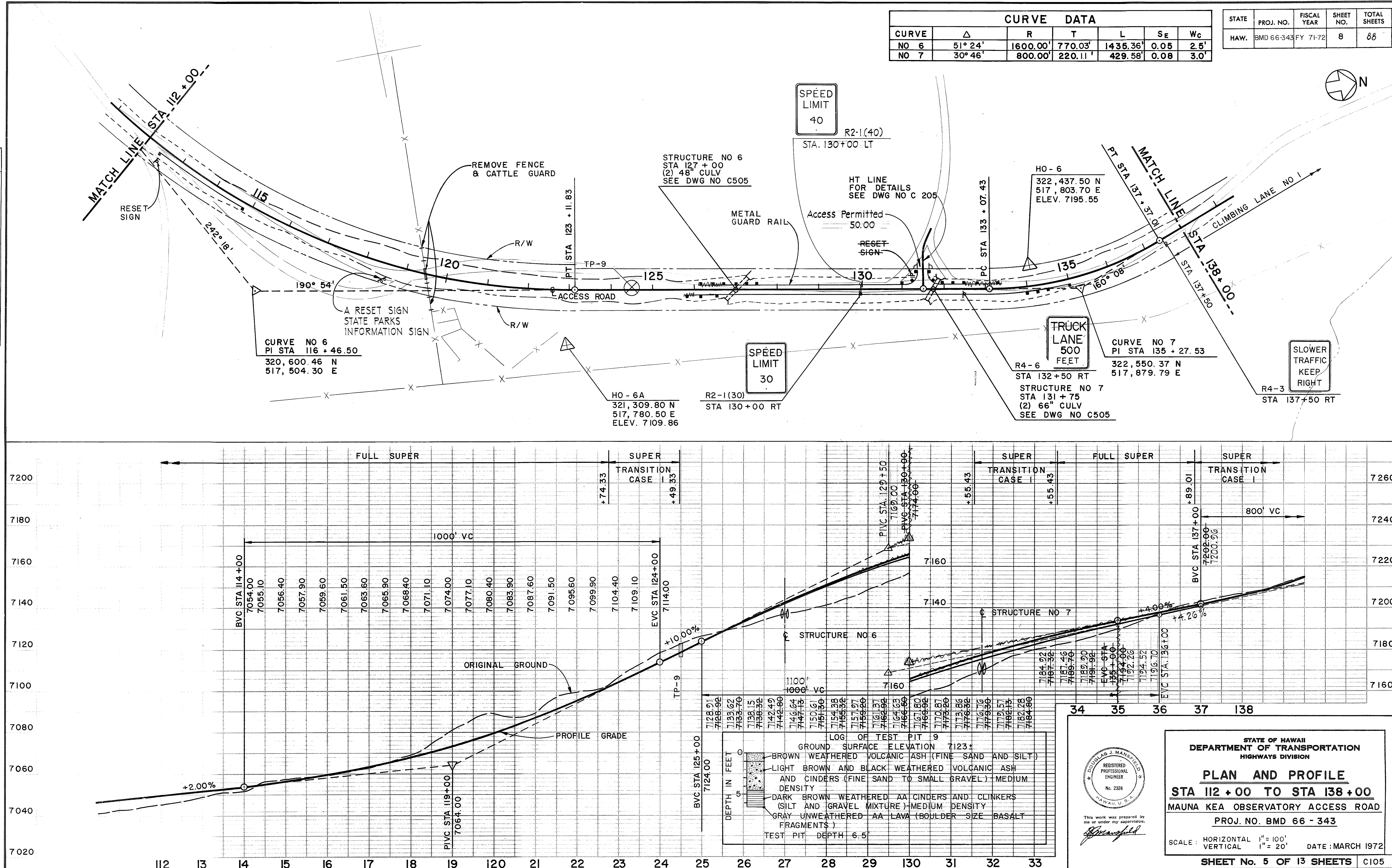
SHEET No. 4 OF 13 SHEETS C 104

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	BY: H.W. CHENG		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	STRUCTURE NOTATIONS OK'D		

CURVE DATA						
CURVE	Δ	R	T	L	S _e	W _c
NO 6	51° 24'	1600.00'	770.03'	1435.36'	0.05	2.5'
NO 7	30° 46'	800.00'	220.11'	429.58'	0.08	3.0'

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	8	88



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 112 + 00 TO STA 138 + 00
MAUNA KEA OBSERVATORY ACCESS ROAD

PROJ. NO. BMD 66 - 343

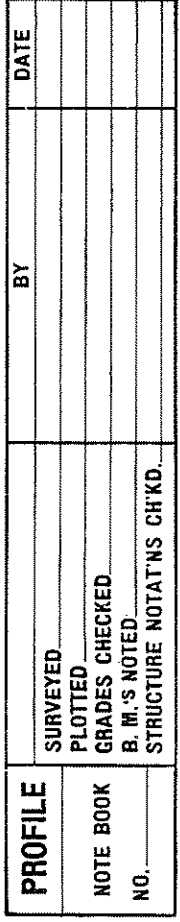
SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

SHEET No. 5 OF 13 SHEETS C105



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		



This work was prepared by
me or under my supervision.

J. Mansfield

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE

STA 138 + 00 TO STA 166 + 00

MAUNA KEA OBSERVATORY ACCESS ROAD

PROJ. NO. BMD 66 - 343

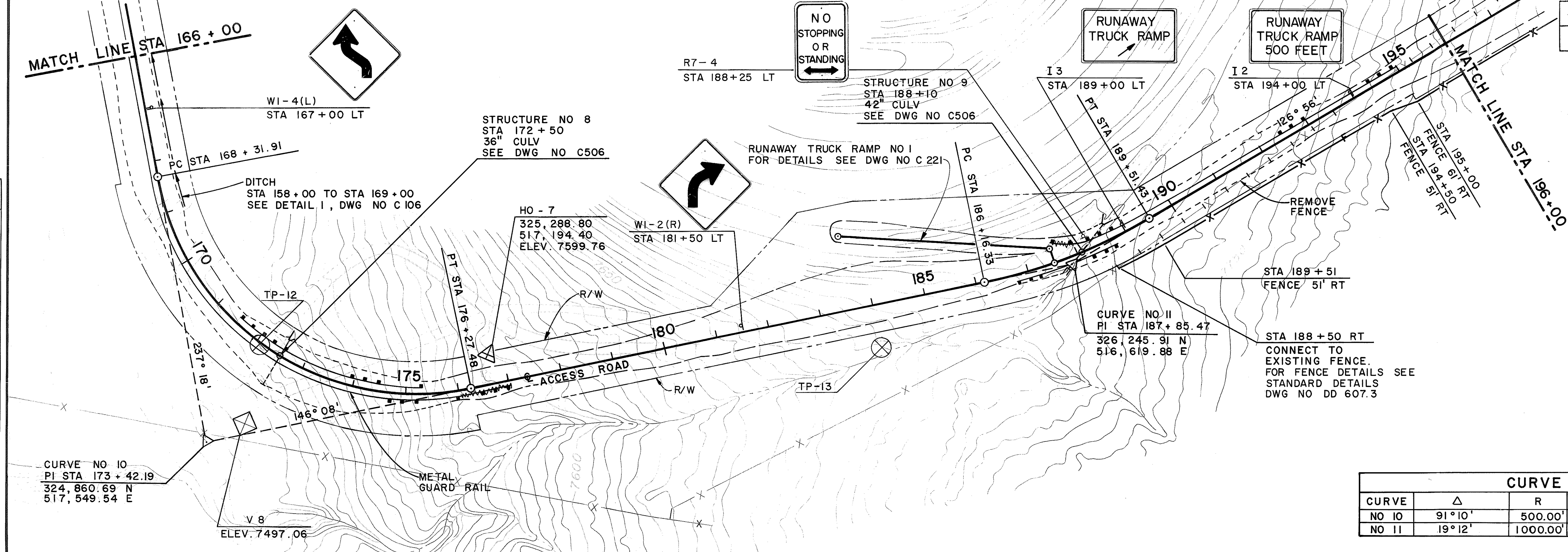
SCALE: HORIZONTAL 1" = 100'
 VERTICAL 1" = 20' DATE: MARCH 1972

SHEET No. 6 OF 13 SHEETS CLOSURE

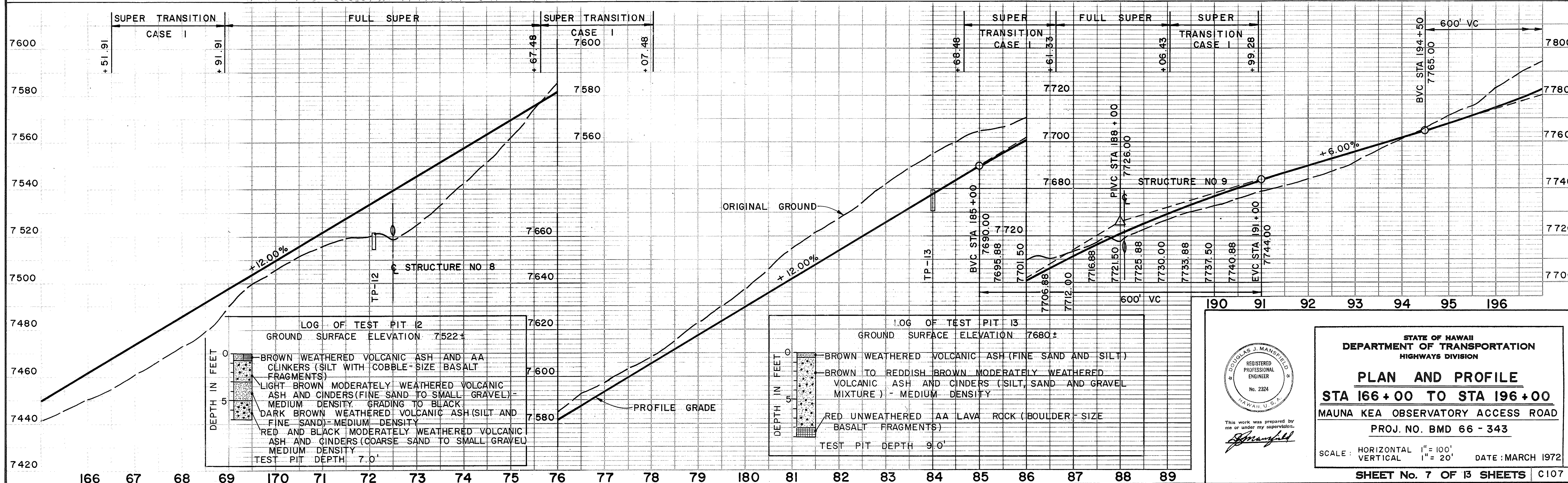
PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
NO.		

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD66-343	FY 71-72	10	38



CURVE DATA						
CURVE	Δ	R	T	L	S_e	W_c
NO 10	91°10'	500.00'	510.29'	795.58'	0.10	3.5'
NO 11	19°12'	1000.00'	169.14'	335.10'	0.07	3.0'



REGISTERED PROFESSIONAL ENGINEER
No. 2324
HAWAII, U.S.A.

This work was prepared by me or under my supervision.

D. Mansfield

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 166+00 TO STA 196+00
MAUNA KEA OBSERVATORY ACCESS ROAD

PROJ. NO. BMD 66 - 343

SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

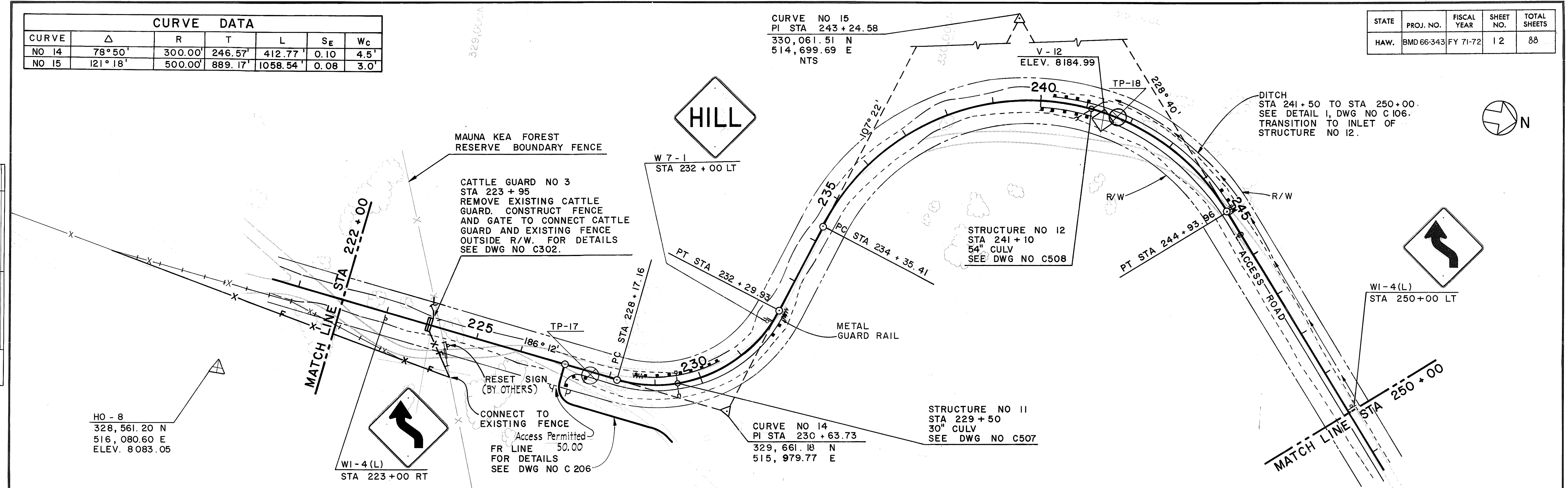
SHEET No. 7 OF 13 SHEETS C107

CURVE DATA						
CURVE	Δ	R	T	L	S _E	W _C
NO 14	78°50'	300.00'	246.57'	412.77'	0.10	4.5'
NO 15	121°18'	500.00'	889.17'	1058.54'	0.08	3.0'

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	12	88

PLAN	DATE	BY	DATE
SURVEYED			
PLOTTED			
CHECKED			
NO.			

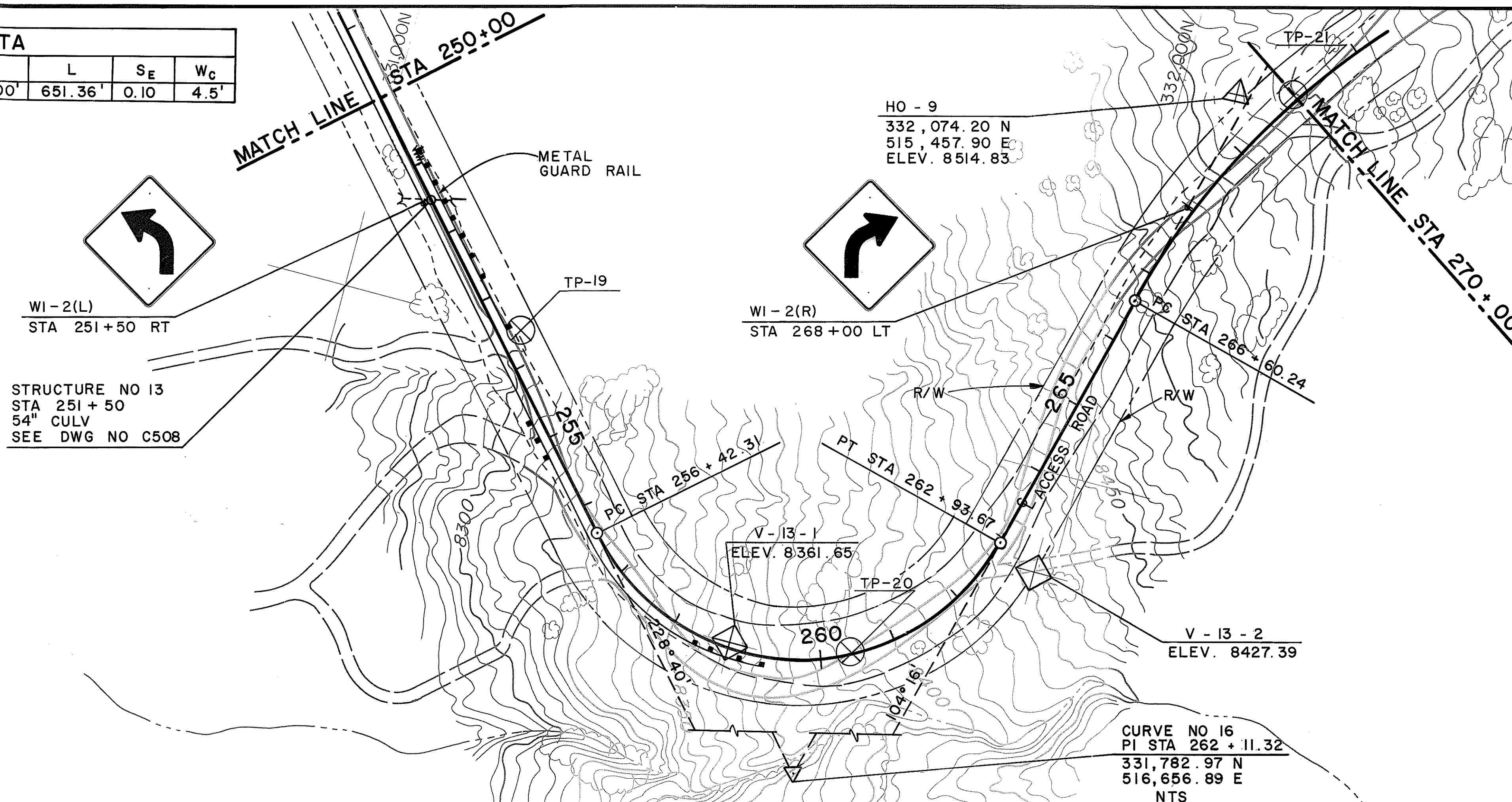
PROFILE	DATE	BY	DATE
SURVEYED			
PLOTTED			
CHECKED			
NO.			



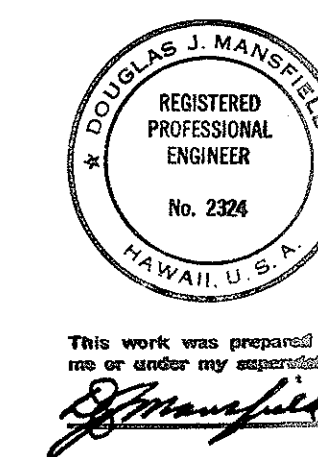
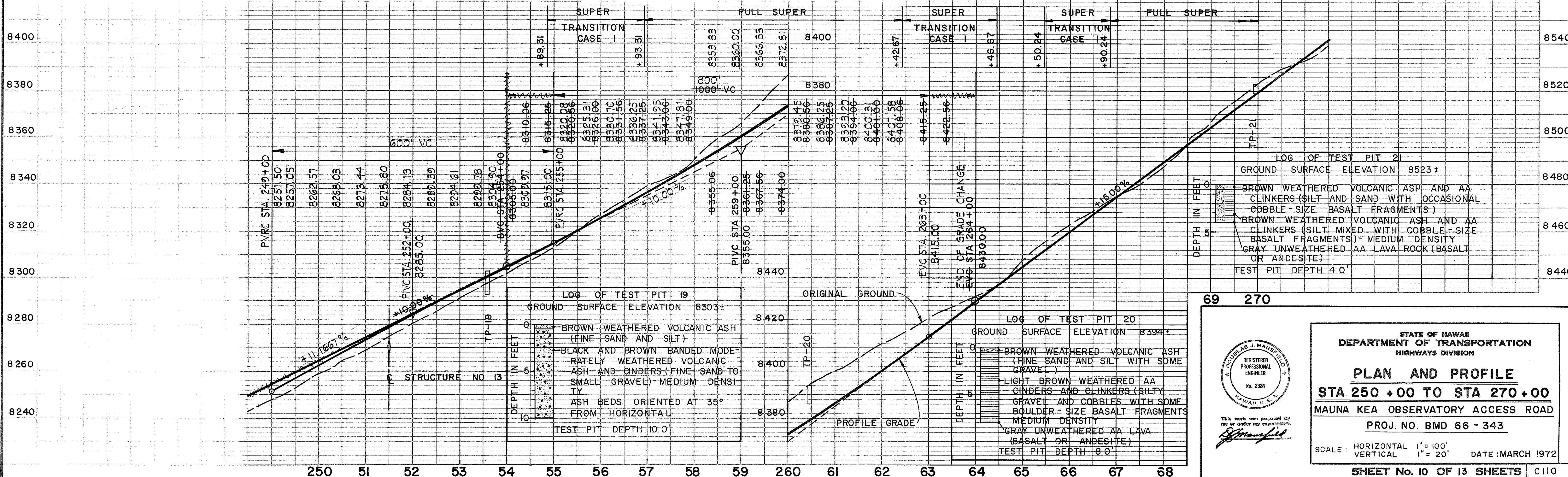
CURVE DATA						
CURVE	Δ	R	T	L	S_E	W_C
NO 16	124° 24'	300.00'	569.00'	651.36'	0.10	4.5'

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	13	88

PLAN	DATE
SURVEYED	
NOTE BOOK	
NO.	



PROFILE	DATE
SURVEYED	
NOTE BOOK	
NO.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 250 + 00 TO STA 270 + 00
MAUNA KEA OBSERVATORY ACCESS ROAD
PROJ. NO. BMD 66 - 343

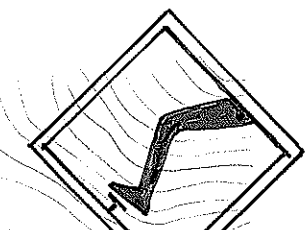
SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

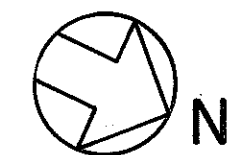
SHEET No. 10 OF 13 SHEETS C110

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	14	88

HO - 10
334,370.00 N
514,054.30 E
ELEV. 8980.49



BRAKE SIGN
STA 297+25 LT.



TRUCK
LANE
500
FEET

R4-6
STA 297+25 RT

HO - 10 A
334,493.50 N
514,385.10 E
ELEV. 8912.51

CURVE NO 19
PI STA 294+58.74
334,361.24 N
514,474.41 E

STRUCTURE NO 15
STA 290+50
54" CULV
SEE DWG NO C509

CURVE NO 18
PI STA 285+63.02
333,486.25 N
514,669.46 E

V - 14
ELEV. 8672.23

STRUCTURE NO 14
STA 273+50
42" CULV
SEE DWG NO C509

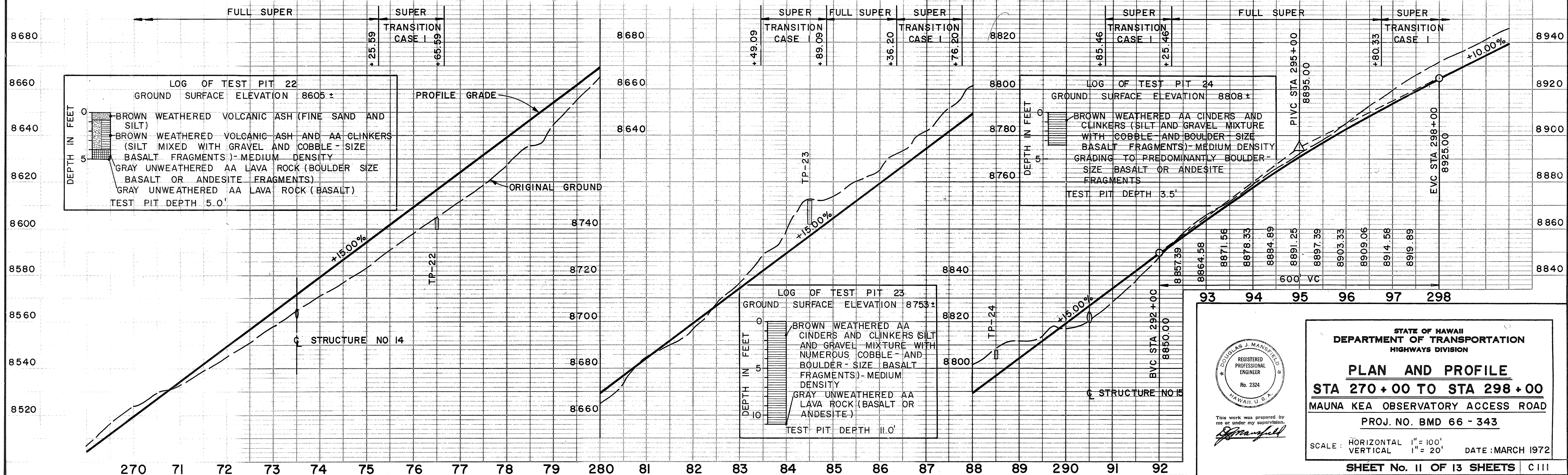
CURVE NO 17
PI STA 271+40.43
332,131.86 N
515,284.79 E

MATCH LINE
STA 270+00

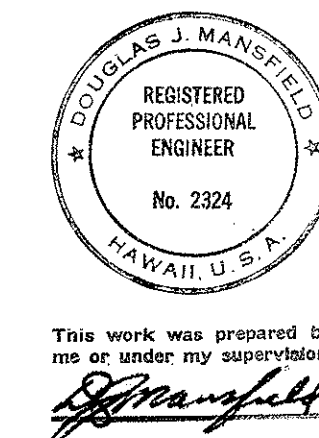
HO - 9
332,074.20 N
515,457.90 E
ELEV. 9514.83

CURVE DATA						
CURVE	Δ	R	T	L	S _E	W _C
NO 17	51° 18'	1000.00'	480.19'	895.35'	0.05	2.5'
NO 18	11° 52'	1000.00'	103.93'	207.11'	0.05	2.5'
NO 19	29° 30'	1000.00'	263.28'	514.87'	0.05	2.5'

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		



PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKD.		
NO.		

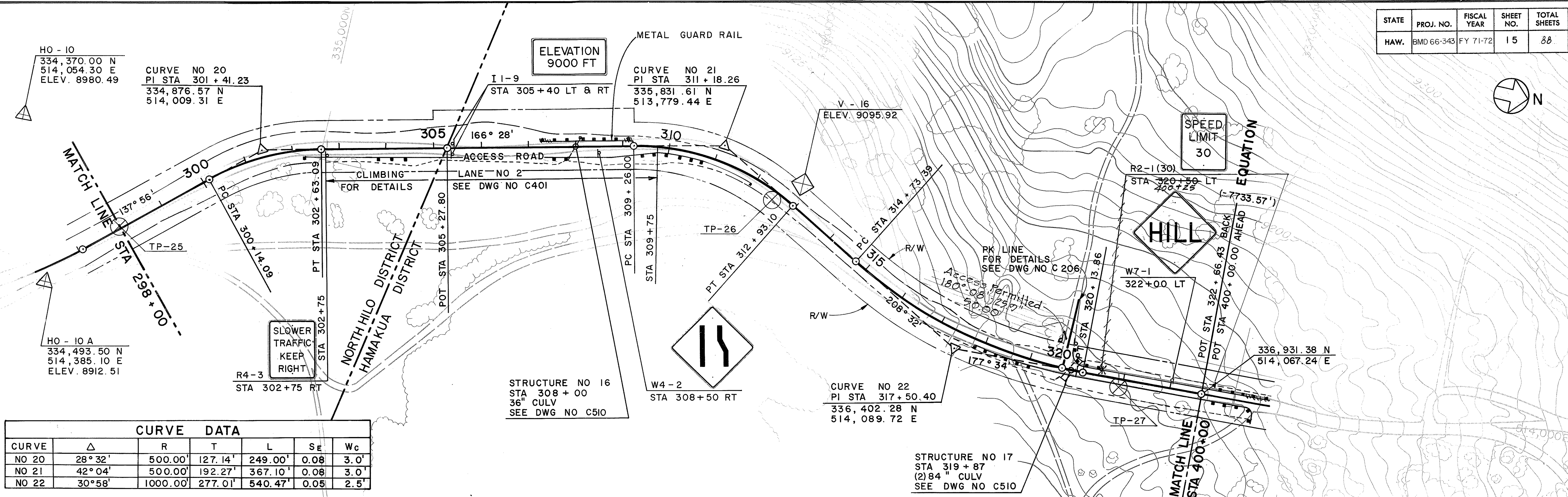


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN AND PROFILE
STA 270+00 TO STA 298+00
MAUNA KEA OBSERVATORY ACCESS ROAD
PROJ. NO. BMD 66 - 343
SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'
DATE: MARCH 1972
SHEET No. 11 OF 13 SHEETS C111

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	15	88

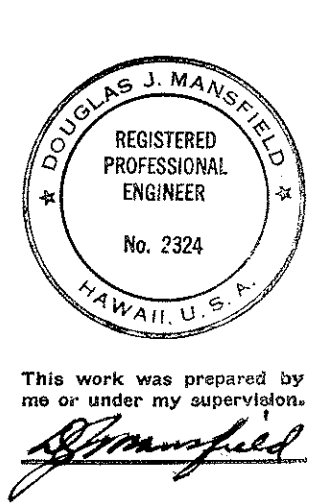
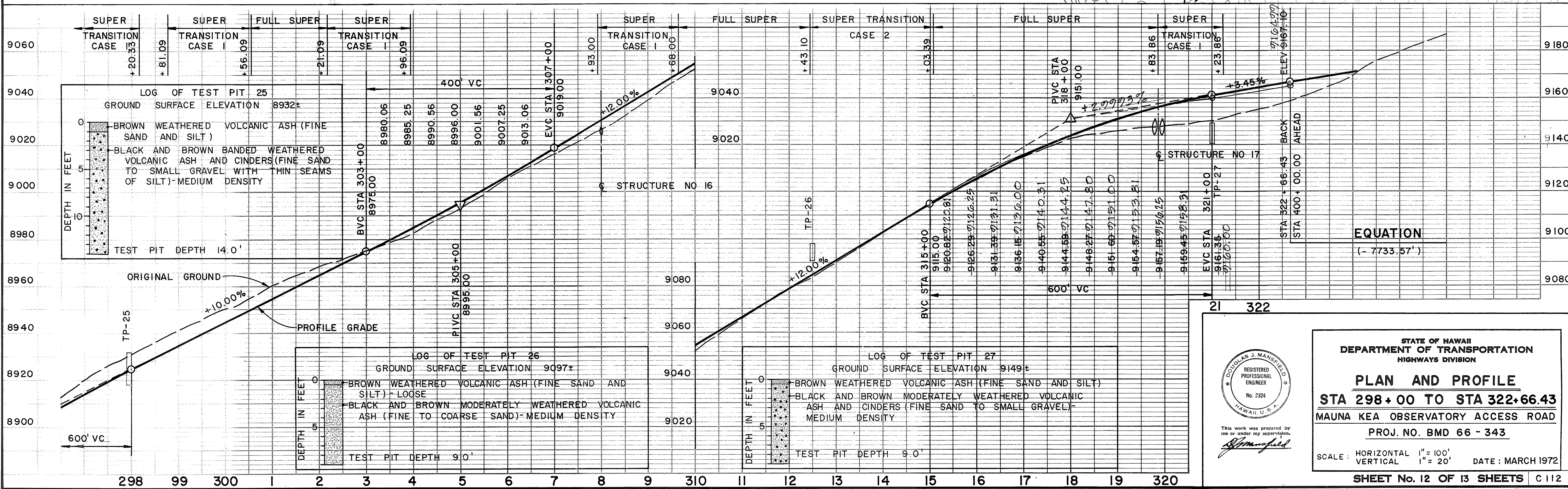


PLAN	DATE	BY
SURVEYED		
PLANNED		
NOTED		
NO.		



CURVE DATA						
CURVE	Δ	R	T	L	Se	Wc
NO 20	28° 32'	500.00'	127.14'	249.00'	0.08	3.0'
NO 21	42° 04'	500.00'	192.27'	367.10'	0.08	3.0'
NO 22	30° 58'	1000.00'	277.01'	540.47'	0.05	2.5'

PROFILE	DATE	BY
SURVEYED		
PLANNED		
NOTED		
NO.		



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE
STA 298+00 TO STA 322+66.43
MAUNA KEA OBSERVATORY ACCESS ROAD

PROJ. NO. BMD 66 - 343

SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 20'

DATE: MARCH 1972

SHEET No. 12 OF 13 SHEETS C 112

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW.	BMD 66-343	FY 71-72	16	88

