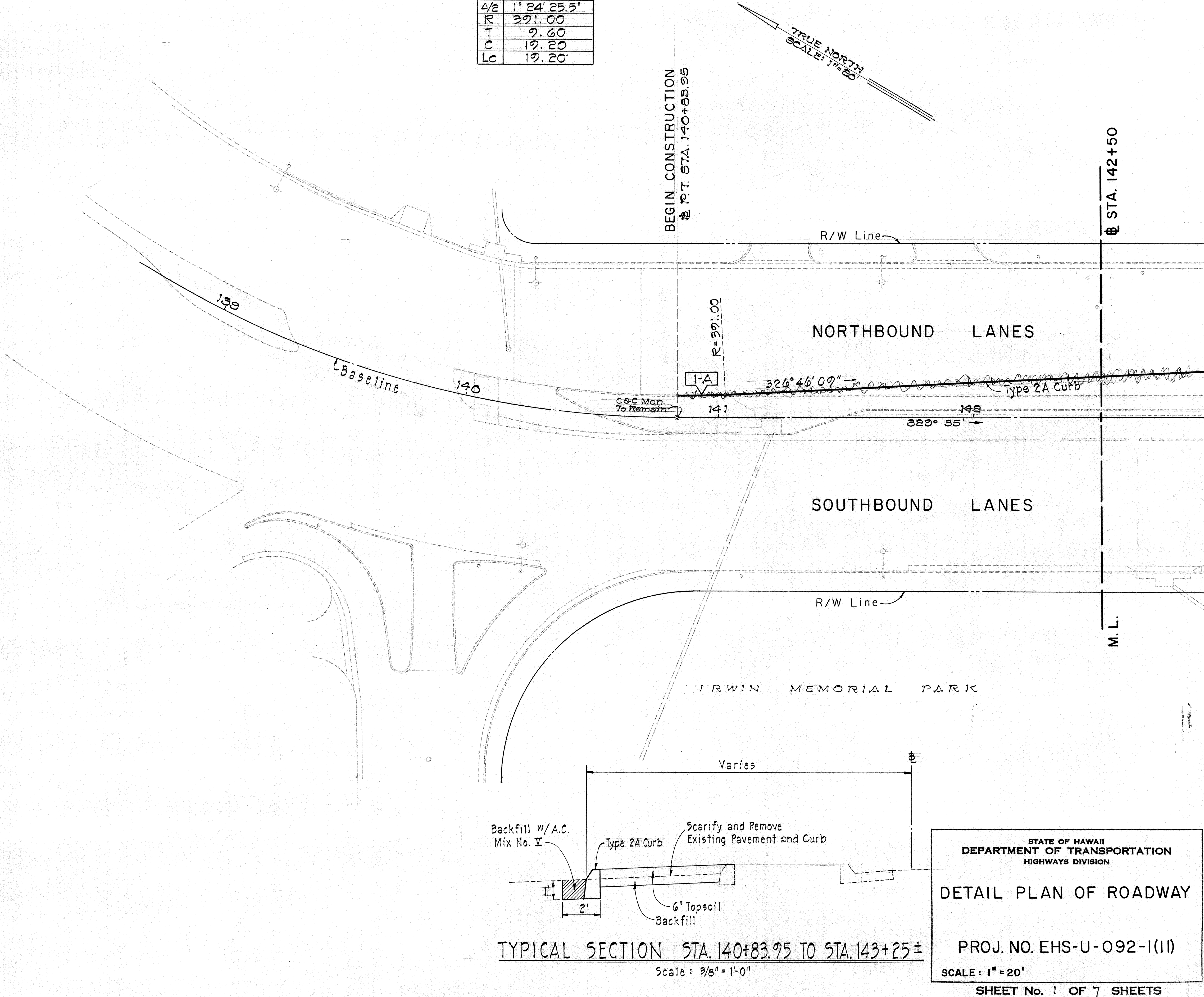


GENERAL NOTES

1. All Noses shall be Type 2A Curb, except where shown otherwise on the plans.
2. Scarification and Removal of Existing Pavement, Curbs, and Sidewalk, including disposal thereof, shall be measured and paid under "Roadway Excavation".
3. Pavement Grades shown thus [5.90] are existing and are to remain.
4. The Contractor shall notify Mr. R. B. Freitas, telephone number 548-7703, at least 3 working days prior to commencement of any work on the slab over the existing fuel oil line (Section 'A', Sheet No. 8).
5. Coordinates herein are in reference to "Punchbowl Δ".
6. Elevations herein are in reference to MSL Datum.
7. Wheelchair Ramps for the physically handicapped are shown in their approximate locations only. Said locations may be varied slightly, subject to approval by the Engineer, to avoid conflicts with existing, or proposed water meters, storm drainage structures, street light or traffic signal pullboxes, etc.

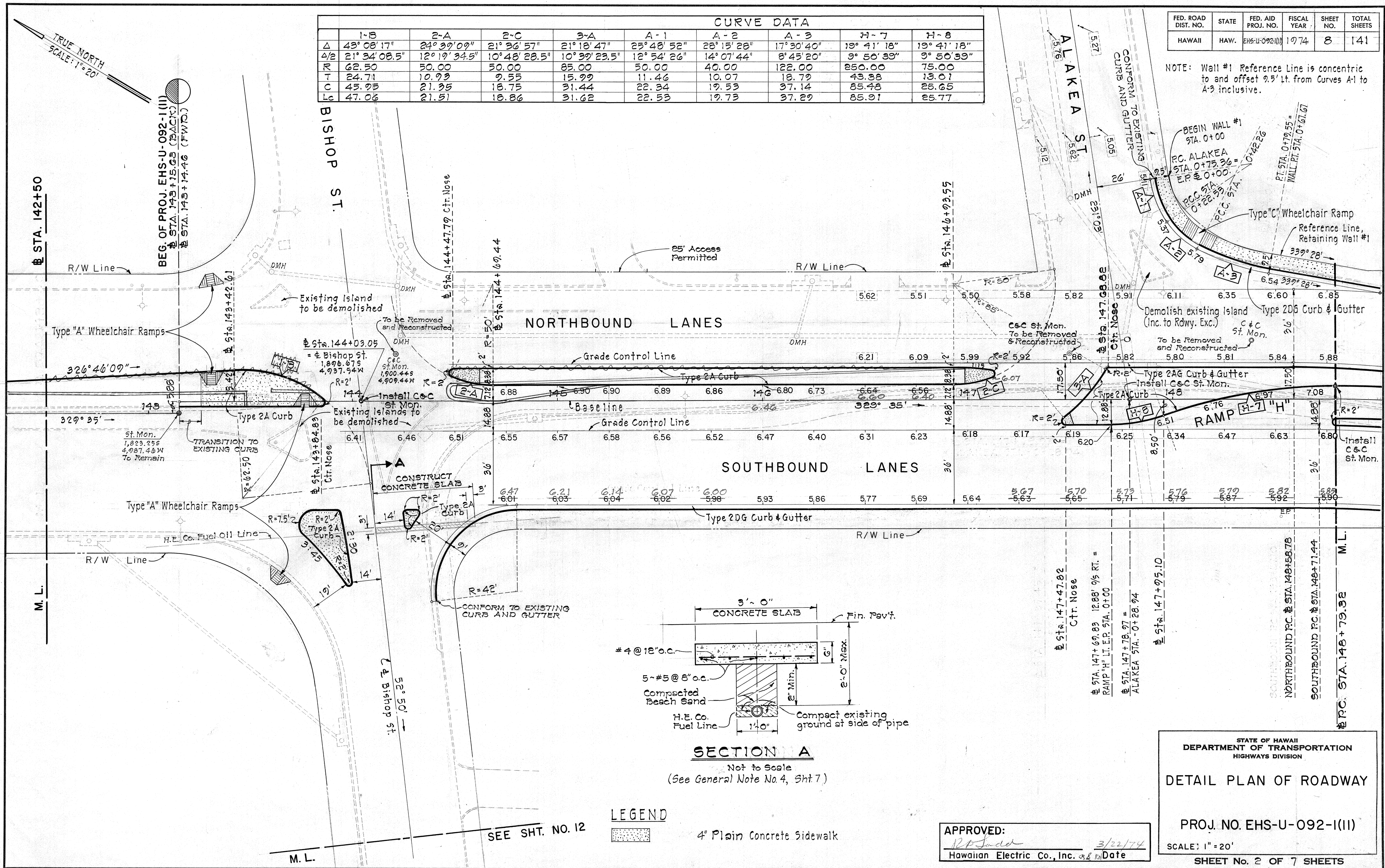
CURVE DATA	
	I-A
Δ	2° 48' 51"
4/2	1° 24' 25.5"
R	391.00
T	9.60
C	19.20
Lc	19.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EHS-U-092-1(11)	1974	7	141



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

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTE BOOK	_____
CHECKED BY	_____
No.	_____



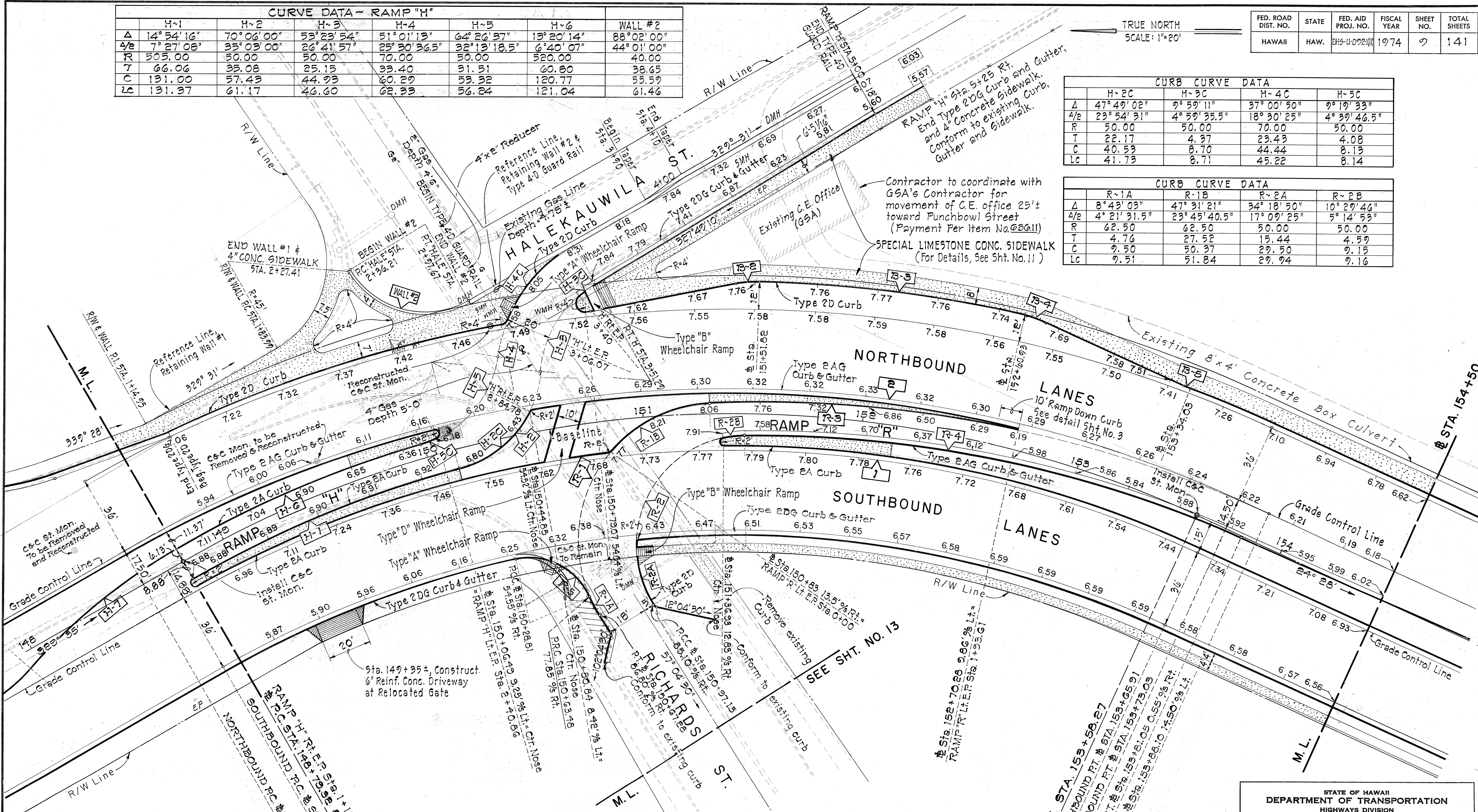
CURVE DATA - RAMP "H"						
	H-1	H-2	H-3	H-4	H-5	H-6
Δ	14° 54' 16"	70° 06' 00"	53° 23' 54"	51° 01' 13"	64° 26' 37"	13° 20' 14"
4/2	7° 27' 08"	35° 03' 00"	26° 41' 57"	25° 30' 36.5"	32° 13' 18.5"	6° 40' 07"
R	505.00	50.00	50.00	70.00	50.00	520.00
T	66.06	35.08	25.15	33.40	31.51	60.80
C	131.00	57.43	44.93	60.29	53.32	120.77
LC	131.37	61.17	46.60	62.33	56.24	121.04
						WALL #2
						88° 02' 00"
						44° 01' 00"
						40.00
						38.65
						55.59
						61.46

TRUE NORTH
SCALE: 1"=20'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EHS-U-092-I(II)	1974	7	141

CURB CURVE DATA			
	H-2C	H-3C	H-4C
Δ	47° 49' 02"	9° 59' 11"	37° 00' 50"
4/2	23° 54' 31"	4° 59' 35.5"	18° 30' 25"
R	50.00	50.00	70.00
T	22.17	4.97	23.43
C	40.53	8.70	44.44
LC	41.73	8.71	45.22

CURB CURVE DATA			
	R-1A	R-1B	R-2A
Δ	8° 49' 03"	47° 31' 21"	34° 18' 50"
4/2	4° 21' 31.5"	23° 45' 40.5"	17° 09' 25"
R	62.50	62.50	50.00
T	4.76	27.52	15.44
C	9.50	50.37	29.50
LC	9.51	51.84	29.94



CURVE DATA - B-1 TO B-5, INCL.		
	B-1 & B-5	B-2 & B-4
Δ	3° 53' 30"	11° 44' 38"
4/2	1° 56' 45"	5° 52' 19"
R	50.00	50.00
T	1.70	5.14
C	3.40	10.23
LC	3.40	10.25

CURVE DATA				
	R-1	R-2	R-3	R-4
Δ	120° 07' 17"	121° 44' 26"	27° 16' 13"	24° 53' 14"
4/2	60° 03' 38.5"	60° 52' 13"	13° 38' 06.5"	12° 26' 37"
R	62.50	50.00	550.00	535.00
T	108.52	89.72	133.42	118.05
C	108.32	87.35	259.31	230.56
LC	131.03	106.24	261.78	232.38

CURVE DATA	
	2
Δ	54° 53' 00"
4/2	27° 26' 30"
R	500.00
T	259.64
C	460.85
LC	478.95

CURVE DATA	
	R-5
Δ	75° 00' 00"
4/2	37° 30' 00"
R	20.00
T	15.35
C	24.35
LC	26.18

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

PROJ. NO. EHS-U-092-I(II)

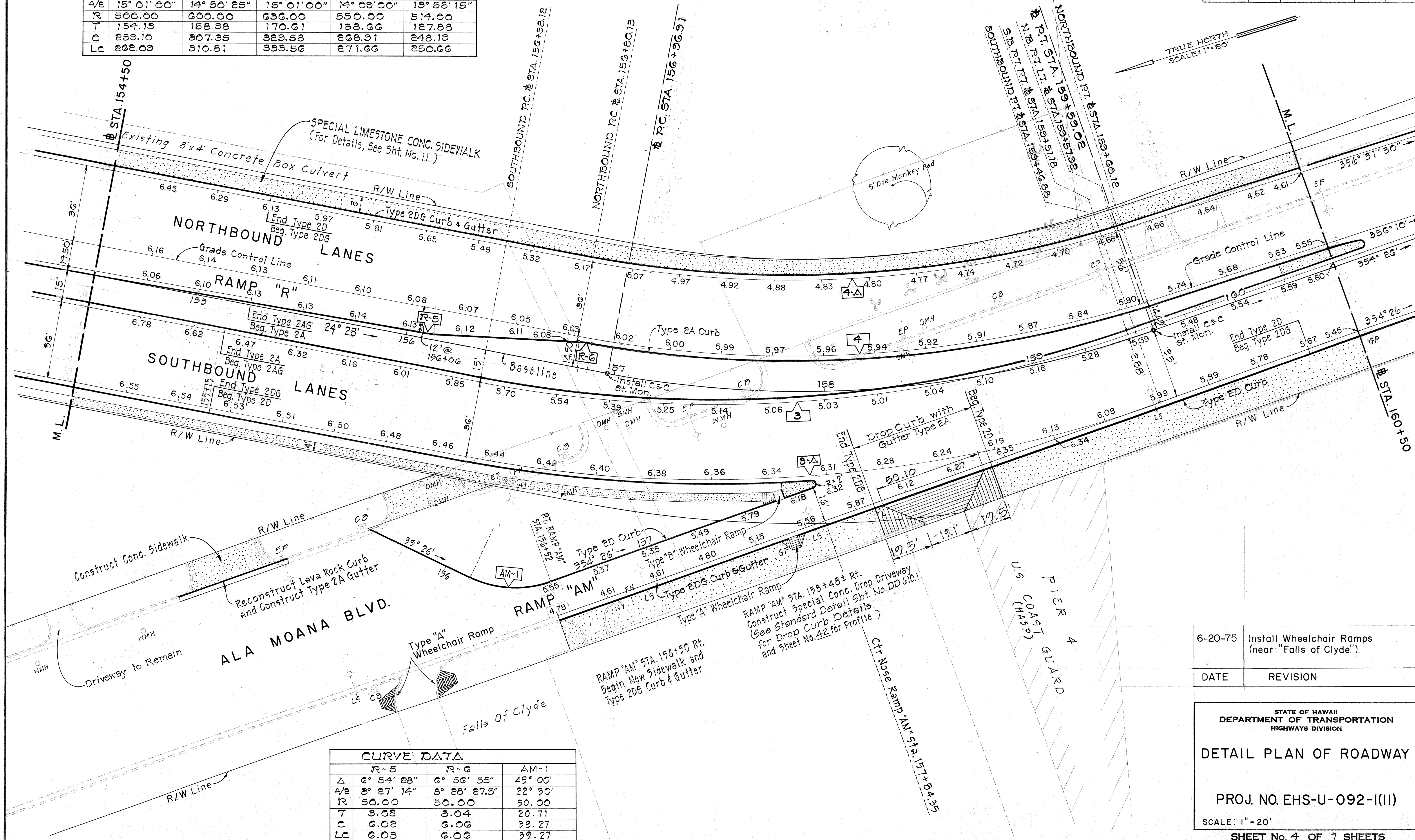
SCALE: 1"=20'

SHEET No. 3 OF 7 SHEETS

DATE: _____
SURVEY PLANNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
NOTED BY: _____
NO. _____

CURVE DATA					
	B	S	S-A	4	4-A
Δ	30° 02' 00"	29° 40' 50"	30° 02' 00"	28° 18' 00"	27° 56' 30"
4/2	15° 01' 00"	14° 50' 25"	15° 01' 00"	14° 09' 00"	13° 58' 15"
R	500.00	600.00	636.00	550.00	514.00
T	134.13	158.98	170.61	138.66	127.88
C	259.10	307.35	329.58	268.91	248.19
LC	262.09	310.81	333.56	271.66	250.66

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EHS-U-092-I(II)	1974	10	141



SURVEY PLOTTED BY	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	

CURVE DATA			
	R-5	R-6	AM-1
Δ	6° 54' 28"	6° 56' 55"	45° 00'
4/2	3° 27' 14"	3° 28' 27.5"	22° 30'
R	50.00	50.00	50.00
T	3.02	3.04	20.71
C	6.02	6.06	38.27
LC	6.03	6.06	39.27

6-20-75	Install Wheelchair Ramps (near "Falls of Clyde").
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

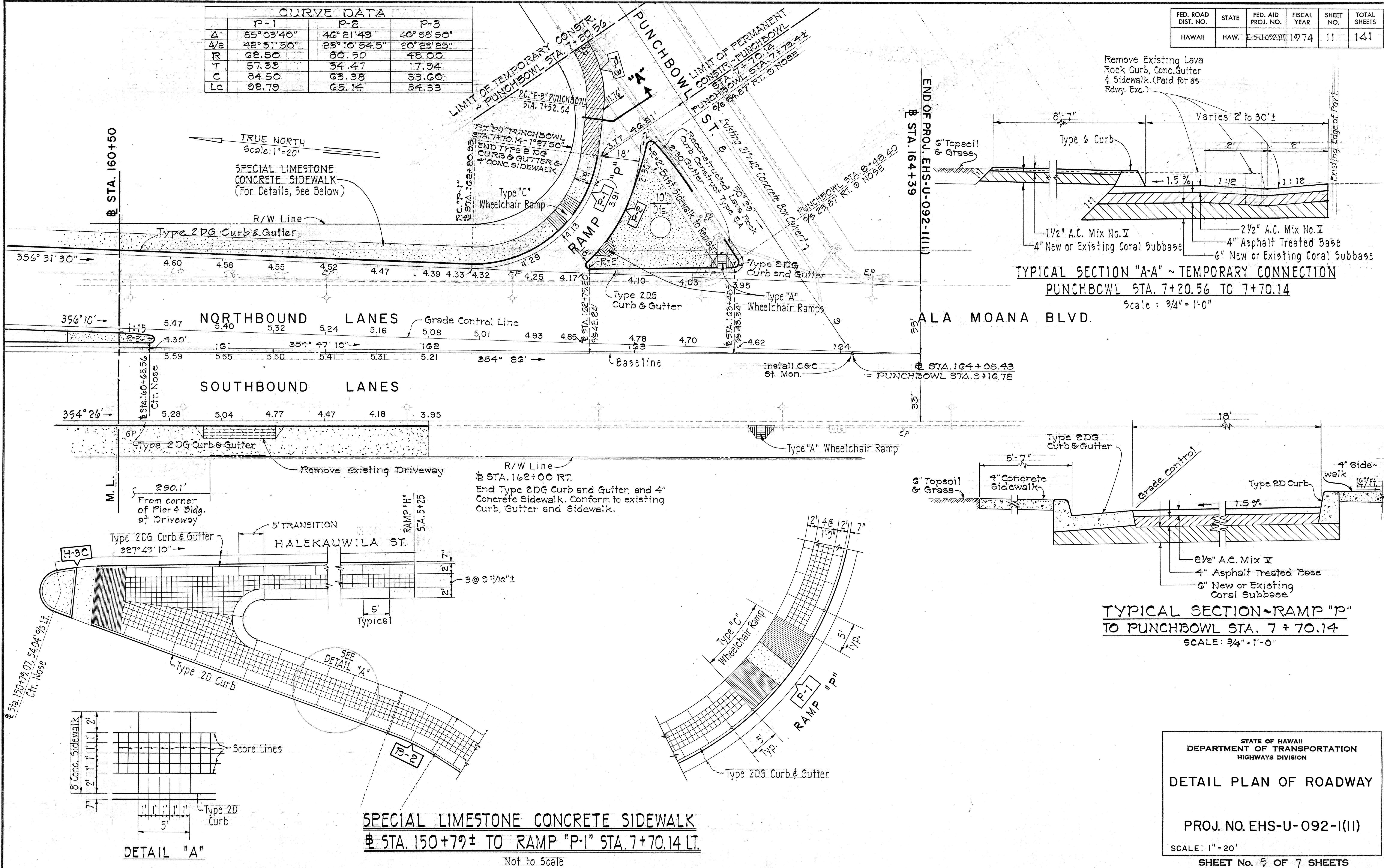
PROJ. NO. EHS-U-092-I(II)

SCALE: 1" = 20'

SHEET No. 4 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EHS-U-092-1(II)	1974	11	141

CURVE DATA			
	P-1	P-2	P-3
Δ	85°03'40"	46°21'49"	40°58'50"
Δ/2	42°31'50"	23°10'54.5"	20°29'25"
R	62.50	80.50	48.00
T	57.33	34.47	17.94
C	84.50	63.38	33.60
LC	92.79	65.14	34.33



TYPICAL SECTION "A-A" ~ TEMPORARY CONNECTION
PUNCHBOWL STA. 7+20.56 TO 7+70.14
 Scale: 3/4" = 1'-0"

TYPICAL SECTION ~ RAMP "P" TO PUNCHBOWL STA. 7 + 70.14
 SCALE: 3/4" = 1'-0"

SPECIAL LIMESTONE CONCRETE SIDEWALK
± STA. 150+79± TO RAMP "P-1" STA. 7+70.14 LT.
 Not to Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

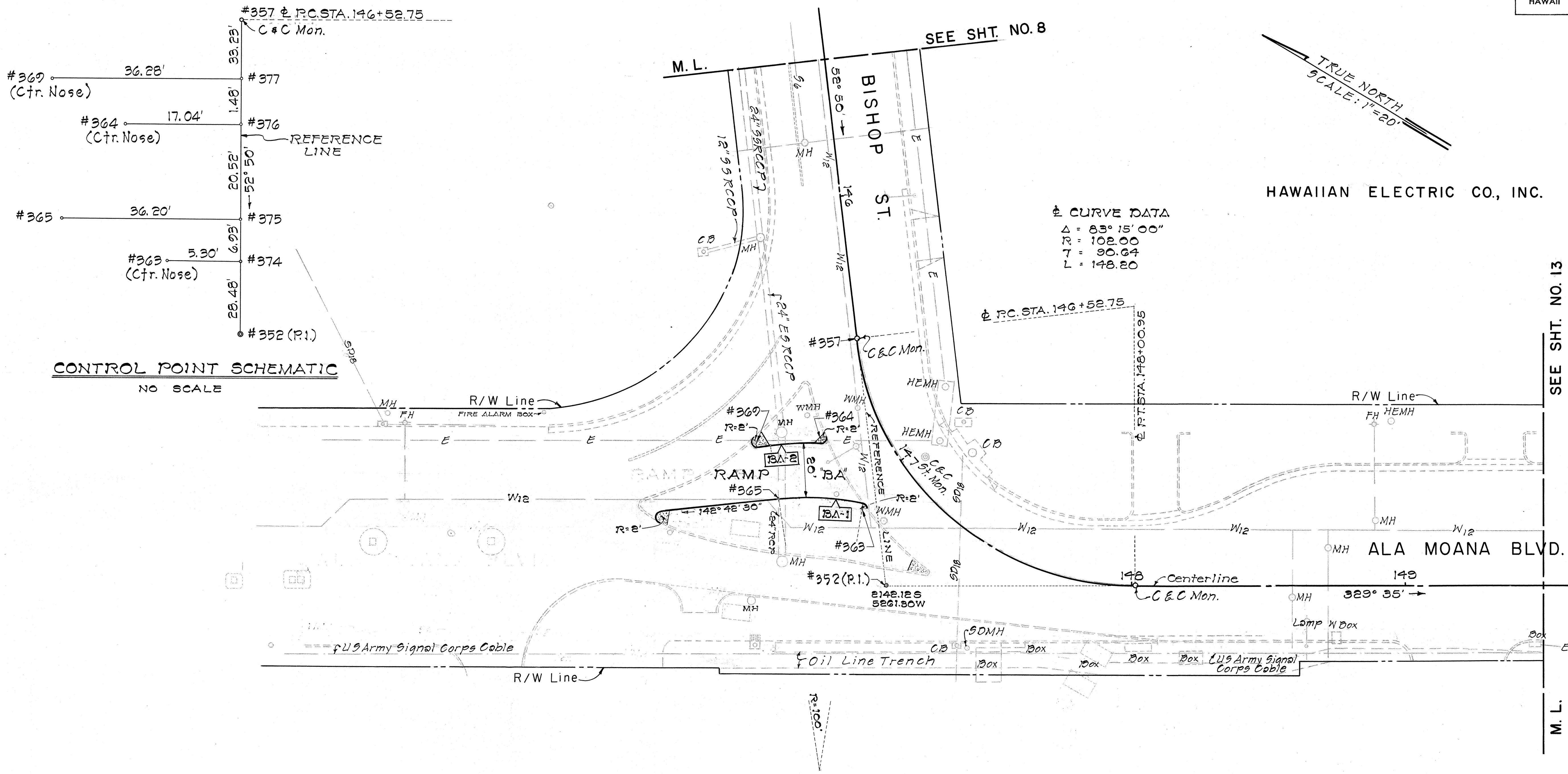
PROJ. NO. EHS-U-092-1(II)

SCALE: 1" = 20'

SHEET No. 5 OF 7 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EHS-U-092-1(II)	1974	12	141



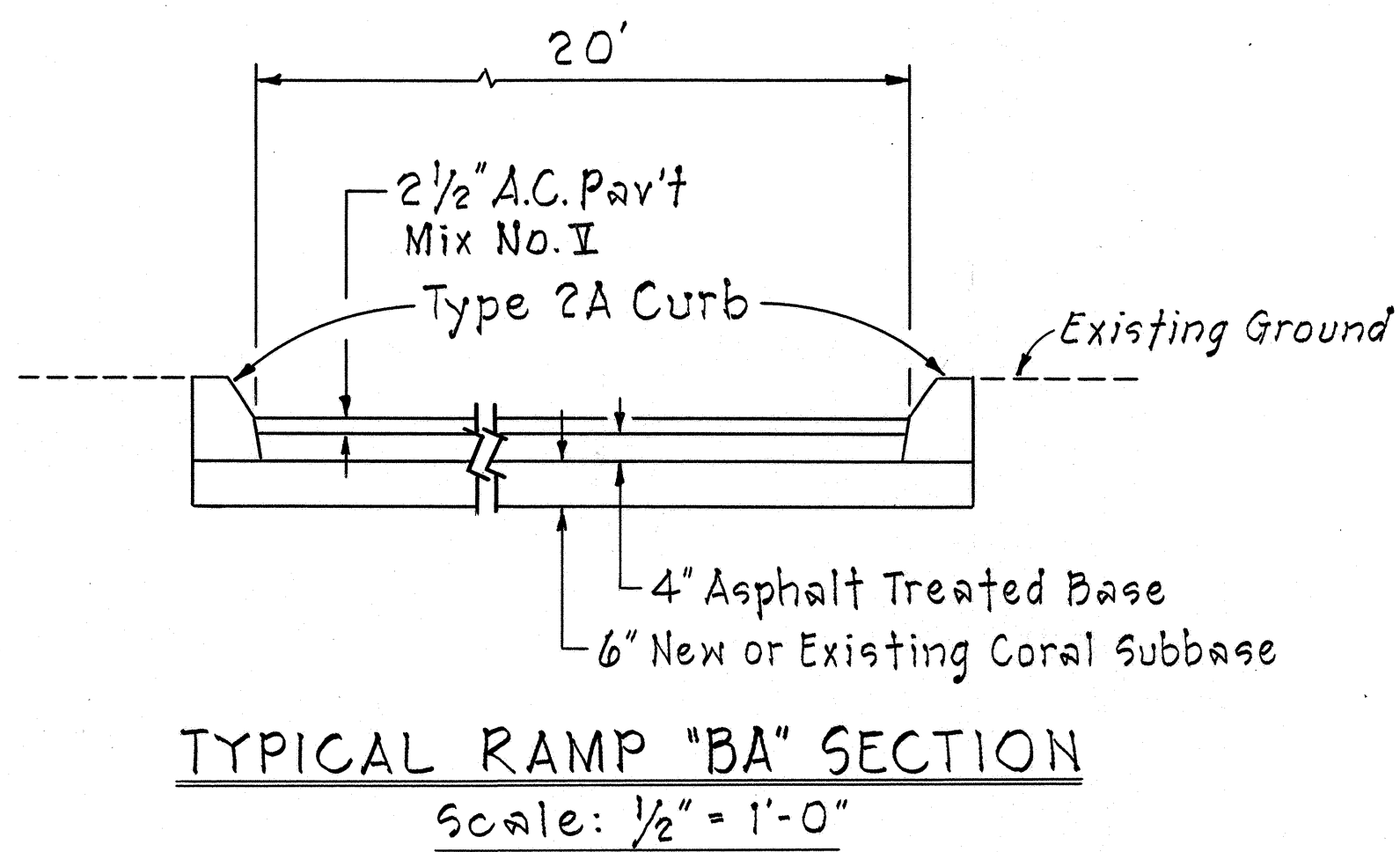
CONTROL POINT SCHEMATIC
NO SCALE

± CURVE DATA
Δ = 83° 15' 00"
R = 102.00
T = 90.64
L = 148.20

CURVE DATA

CURVE	BA-1	BA-2
Δ	18° 22' 23"	3° 04' 10"
Δ/2	9° 11' 14.5"	4° 32' 05"
R	100.00'	180.00'
T	16.17	3.52
C	31.93	18.98
Lc	32.07	19.00

NOTE:
For Control Points (e.g., #357, #360, etc.), See Schematic left above.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

PROJ. NO. EHS-U-092-1(III)

SCALE: 1" = 20'

SHEET No. 6 OF 7 SHEETS

DATE	SURVEY PLOTTED BY
PLAN	DRAWN BY
NOTE BOOK	DESIGNED BY
NO.	CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EH5-U-092-I(II)	1974	13	141

TRUE NORTH
SCALE: 1"=80'

SEE SHT. NO. 9

HAWAIIAN ELECTRIC CO., INC.

RICHARDS ST.

M. L.

SEE SHT. NO. 12

PC STA. 152+86.91
CURVE DATA
R = 111.92
L = 111.92
T = 111.92
C = 111.92
LC = 111.92

PT STA. 154+16.83

Type "C"
Wheelchair Ramp

Type "A"
Wheelchair Ramps

Type "B"
Wheelchair Ramp

Type "A"
Wheelchair Ramp

Demolish existing island. Construct pavement similar to Section "A".

ALA MOANA BLVD.

Construct Type 2A Curb
Restore Grass as Required

Varies 0' to 6'±

Remove existing Curb

Existing Pavement to Remain

2 1/2" Asphalt Concrete, Mix No. V

4" Asphalt Treated Base over existing subbase

CURVE DATA, RA-1
Δ = 18° 20' 30"
4/2 = 9° 10' 15"
R = 200.00
T = 32.29
C = 63.75
LC = 64.02

CURVE DATA
Δ = 24° 51' 00"
R = 370.00
L = 160.47
T = 81.52

PC STA. 152+74.25

PT STA. 154+94.72

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

PROJ. NO. EHS-U-092-I(II)

SCALE: 1" = 20'

SHEET No. 7 OF 7 SHEETS

13

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	