

Sta. 195+50± to 195+90± Rt.
Construct Conc. Lined Swale
ESTIMATED QUANTITIES
Ditch & Channel Exc. = 3 c.y.
Class A-1 Conc. or Shotcrete = 27 c.y.
Reinf. Steel = 42 lbs.

Sta. 197+43 Rt.
Construct: Type "D" SDMH
Install: 30" CGMP, 14 Ga.
ESTIMATED QUANTITIES
Structure Exc. = 13 c.y.
Class "B-1" Conc. = 0.7 c.y.
Reinf. Steel = 23 lbs.
30" Pipe Culvert = 122 L.F.
Type "A" C.I. Frame & Cover = 1 ea.
Brick Wall = 43 L.F.

Sta. 195+00± to 197+25± Rt.
Extend existing 48" R.C.C.P. 16'
Construct Concrete Headwall
For detail see sht. no. 15
ESTIMATED QUANTITIES
Struct. Exc. = 110 c.y.
Class A-1 Conc. = 33 c.y.
Reinf. Steel = 2,717 lbs.

Sta. 193+50± Rt.
Extend existing 48" R.C.C.P. 16'
Construct Concrete Headwall
For detail see sht. no. 15
ESTIMATED QUANTITIES
Struct. Exc. = 19 c.y.
Class B-1 Conc. = 5.7 c.y.
Reinf. Steel = 91 lbs.
48" R.C.C.P. Cl. III = 16 L.F.
Ditch Exc. = 17 c.y.
Unt. Base for Pipe Foundation = 10 c.y.

RT. E. R. CURVE DATA

A = 4° 46' 09"
R = 4404.26'
T = 183.41'
C = 366.49'
Lc = 366.60'

BASELINE SPIRAL DATA

Δs = 2° 15' 00"
Ls = 150'
Ts = 431.94'

BASELINE CURVE DATA

Δ = 16° 40' 00"
R = 1909.86'
T = 279.75'
C = 553.60'
Lc = 555.56'
Se = 0.05/ft.

BASELINE SPIRAL DATA

Δs = 2° 15' 00"
Ls = 150'
Ts = 431.94'

LEGEND

- Existing Pole
- New Pole
- X Existing Pole to be removed
- Existing Anchor
- ▲ New Anchor
- ⊕ Existing Anchor to be removed

SLOWER TRAFFIC KEEP RIGHT
R4-3
Install

SLOWER TRAFFIC TAKE RIGHT LANE
Remove Sign and Post

SLOWER TRAFFIC TAKE RIGHT LANE
Remove and Reset on New Post

STOP
Install R1-1

STOP
Remove

STOP
Install R1-1

STOP
Remove

GENERAL NOTES:

- Contractor shall exercise caution in protecting existing facilities to remain.
- Auxiliary roads shall be resurfaced 10 feet from edge of the through pavement to conform to new pavement thickness.
- Medial openings shall be resurfaced to conform with new pavement thickness.
- Existing pavement shall be broomed-off and tack coated before laying the Asphalt Cement.
- Pot holes, cracks and crevices in the existing pavement shall be cleaned and paved with A.C. Mix No. Y as ordered by the Engineer. No compensation will be made to the Contractor for this work other than the actual quantity of the material incorporated into the work and for which an item is listed in the proposal.
- All existing Centerline Monuments shall be exposed after resurfacing. Payments to be incidental to Asphalt Concrete Pavement.

UTILITY NOTES:

- All work on the adjustment of the Hawaiian Telephone Company's pole line to be done by the Hawaiian Telephone Company.
- The Contractor shall coordinate his work with the Hawaiian Telephone Company.

SLOWER TRAFFIC KEEP RIGHT
R4-3
Install

Install outside edge of swale
See Detail Sheet No. 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

MOANALUA ROAD
TRUCK CLIMBING LANE

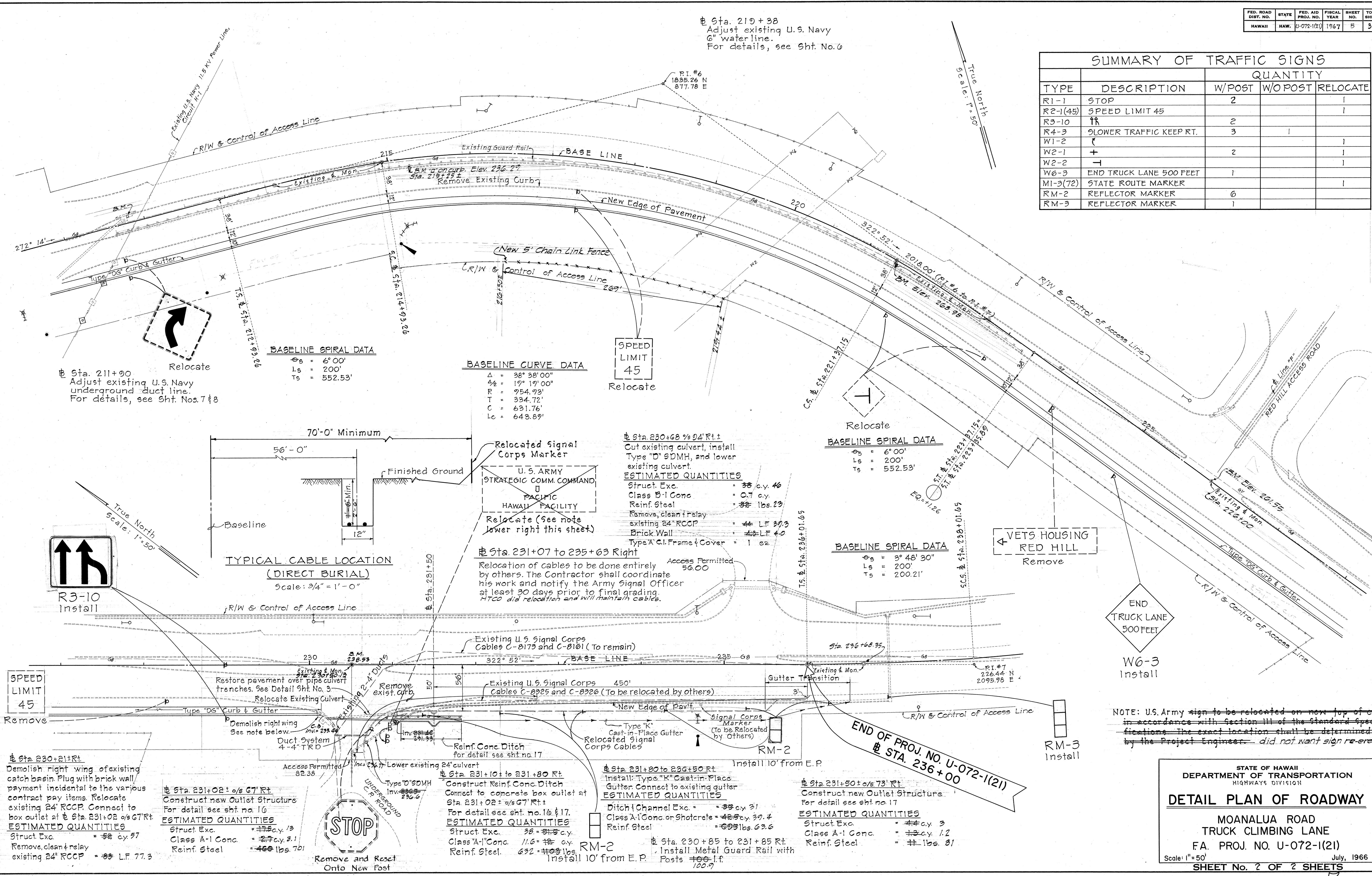
F.A. PROJ. NO. U-072-1(2)

Scale: 1"=50' July, 1966
SHEET No. 1 OF 2 SHEETS

DATE	PLANNED BY
DESIGNED BY	CHECKED BY
NOTE BOOK	QUANTITIES BY
NO.	

SUMMARY OF TRAFFIC SIGNS				
TYPE	DESCRIPTION	QUANTITY		
		W/POST	W/OPOST	RELOCATE
R1-1	STOP	2		1
R2-1(45)	SPEED LIMIT 45			1
R3-10	↑↑	2		
R4-3	SLOWER TRAFFIC KEEP RT.	3	1	
W1-2	↵			1
W2-1	+	2		1
W2-2	→			1
W6-3	END TRUCK LANE 500 FEET	1		
MI-3(72)	STATE ROUTE MARKER			1
RM-2	REFLECTOR MARKER	6		
RM-3	REFLECTOR MARKER	1		

Sta. 219+38
Adjust existing U.S. Navy
6" waterline.
For details, see Sht. No. 6



BASELINE SPIRAL DATA

$\theta_s = 6^\circ 00'$
$L_s = 200'$
$T_s = 552.53'$

BASELINE CURVE DATA

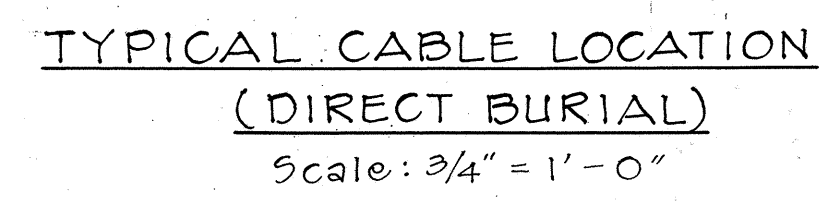
$\Delta = 38^\circ 38' 00''$
$\Delta/2 = 19^\circ 19' 00''$
$R = 954.93'$
$T = 334.72'$
$C = 631.76'$
$L_c = 643.89'$

BASELINE SPIRAL DATA

$\theta_s = 6^\circ 00'$
$L_s = 200'$
$T_s = 552.53'$

BASELINE SPIRAL DATA

$\theta_s = 3^\circ 48' 30''$
$L_s = 200'$
$T_s = 200.21'$



ESTIMATED QUANTITIES

Struct. Exc.	= 33 c.y. 46
Class B-1 Conc.	= 0.7 c.y.
Reinf. Steel	= 32 lbs. 23
Remove, clean & relay existing 24" RCCP	= 44 LF 30.3
Brick Wall	= 43 LF 4.0
Type A-1 Frame & Cover	= 1 ea.

Relocated Signal Corps Marker
U.S. ARMY STRATEGIC COMM. COMMAND PACIFIC HAWAII FACILITY
Relocate (See note lower right this sheet)

Relocation of cables to be done entirely by others. The Contractor shall coordinate his work and notify the Army Signal Officer at least 30 days prior to final grading. HTCO did relocation and will maintain cables.

NOTE: U.S. Army sign to be relocated on new top of cut in accordance with Section III of the Standard Specifications. The exact location shall be determined by the Project Engineer. ~~did not want sign re-erected.~~

DATE	PLotted	1967
DESIGNED BY	TRACED BY	...
NOTE BOOK	QUANTITIES BY	...
CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

MOANALUA ROAD
TRUCK CLIMBING LANE
FA. PROJ. NO. U-072-1(2)

Scale: 1" = 50'
July, 1966
SHEET No. 2 OF 2 SHEETS

SPEED LIMIT 45
Remove

R3-10
Install

STOP
Remove and Reset
Onto New Post

RM-2
Install 10' from E.P.

RM-3
Install

W6-3
Install

END OF PROJ. NO. U-072-1(2)
Sta. 236+00