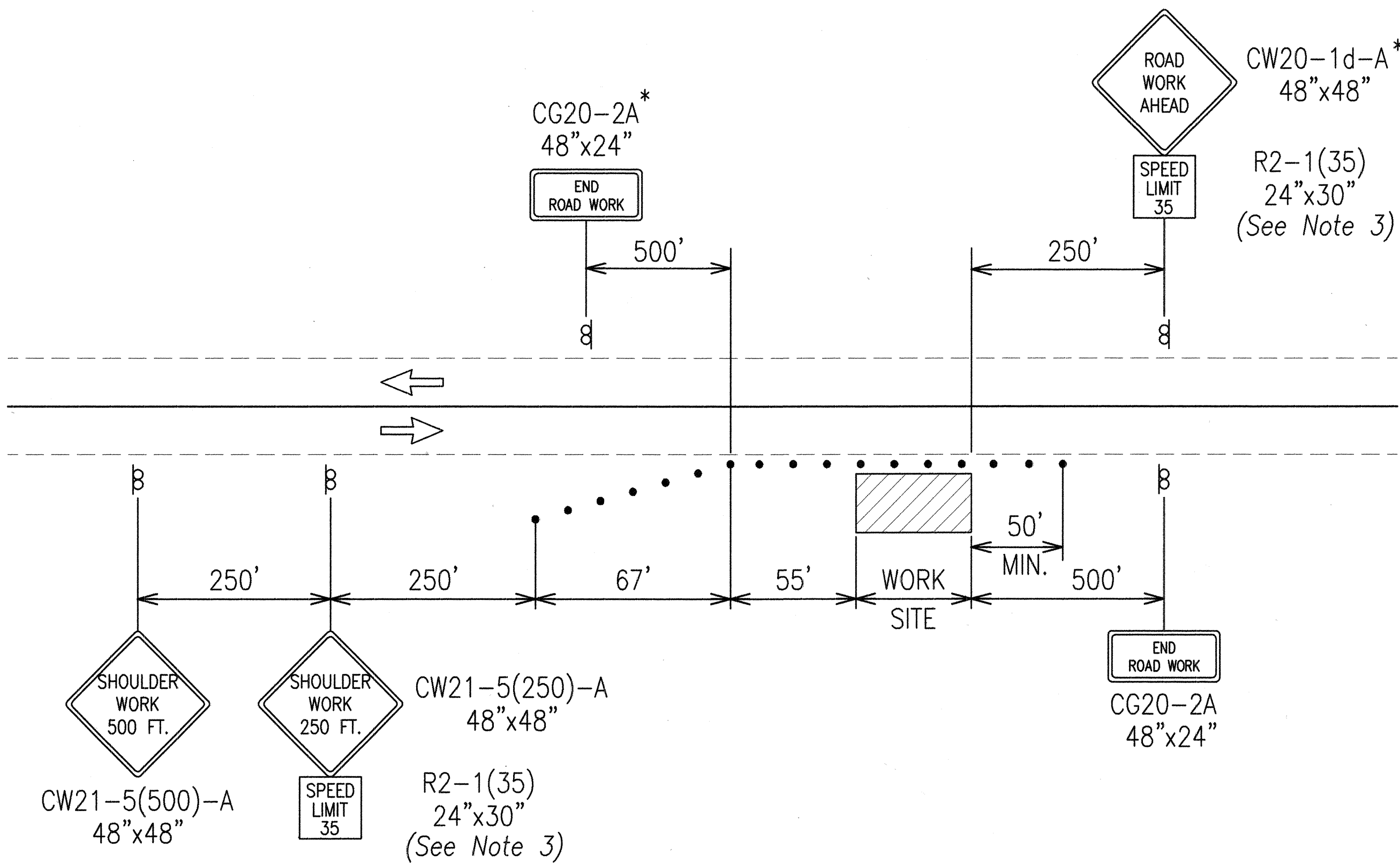


TABLE 1							
ADDITIONAL DIMENSIONS FOR TRAFFIC CONTROL PLANS							
POSTED SPEED LIMIT (M.P.H.)	SIGN SPACING (D) (FEET)	TAPER LENGTH (T) (FEET)		LONGITUDINAL BUFFER SPACE (B) (FEET)	SPACING OF CONES OR DELINEATORS (FEET)		
		W = 12' OR LESS ⁽¹⁾	W = GREATER THAN 12' ⁽¹⁾		TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

NOTES:

⁽¹⁾ W = WIDTH OF LANE, SHOULDER, OR OFFSET



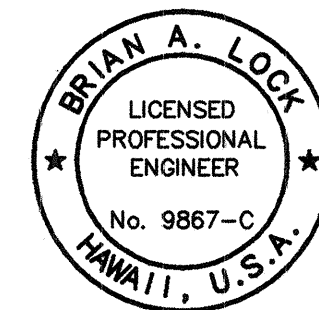
NOTES:

1. This plan may be used only if all road work, including equipment and workers are off the travel way.
2. Sign spacing length (D) and cone or delineator spacing are shown in Table 1.
3. Engineer will determine if Advisory Speed Sign is necessary.
4. Contractor will provide necessary adjustments to accomodate bicyclists and pedestrians.
5. CW20-1d-A sign required for posted speed limit of 45 M.P.H. or greater.
6. Signing is not required if the work area, including equipment and workers, is outside the Clear Zone Distance, as specified in the latest AASHTO Roadside Design Guide.

LEGEND

- Cone or Delineator
- Direction of Traffic
- ⌘ Sign

* Not required for opposing traffic on divided or multi-lane highways.



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ENGINEERS SURVEYORS HAWAII, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

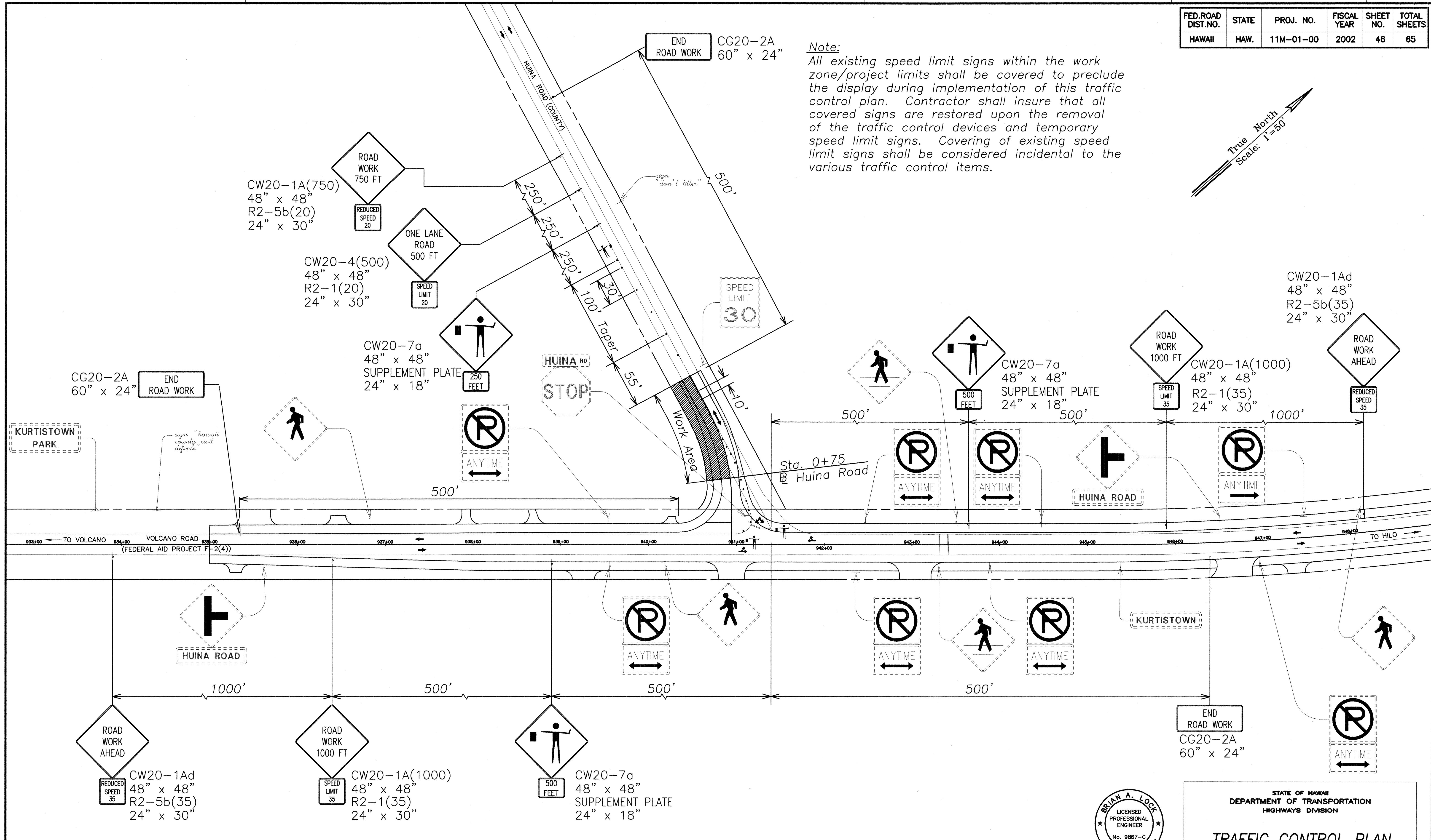
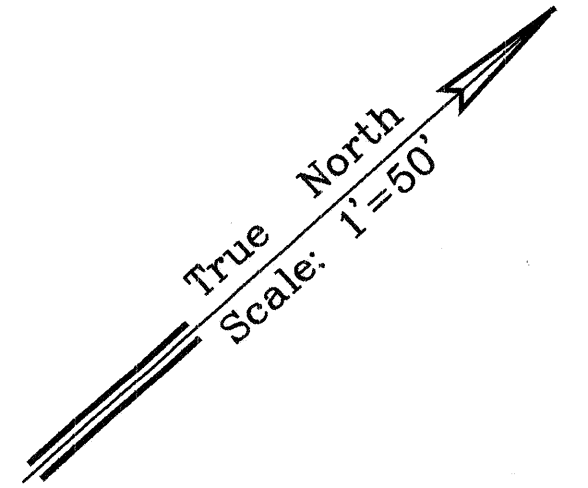
VOLCANO ROAD INTERSECTION
IMPROVEMENTS AT HUINA ROAD
State Project No. 11M-01-00

Scale: Not to Scale Date: November 2001

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	46	65

Note:
All existing speed limit signs within the work zone/project limits shall be covered to preclude the display during implementation of this traffic control plan. Contractor shall insure that all covered signs are restored upon the removal of the traffic control devices and temporary speed limit signs. Covering of existing speed limit signs shall be considered incidental to the various traffic control items.



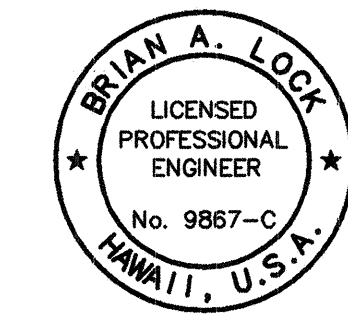
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
INSTRUMENT	QUANTITIES BY	
NO.	CHECKED BY	

Posted Speed Limit:
Volcano Road: 45 MPH
Huina Road: 30 MPH

Spacing of Cones or Delineators (Feet):			
	Taper	Tangent	Work Area
Volcano Road	45	45	10
Huina Road	30	30	10

Legend
Sign
Cone or Delineator
Direction of Traffic
Flagman or Police Officer

PHASE 1



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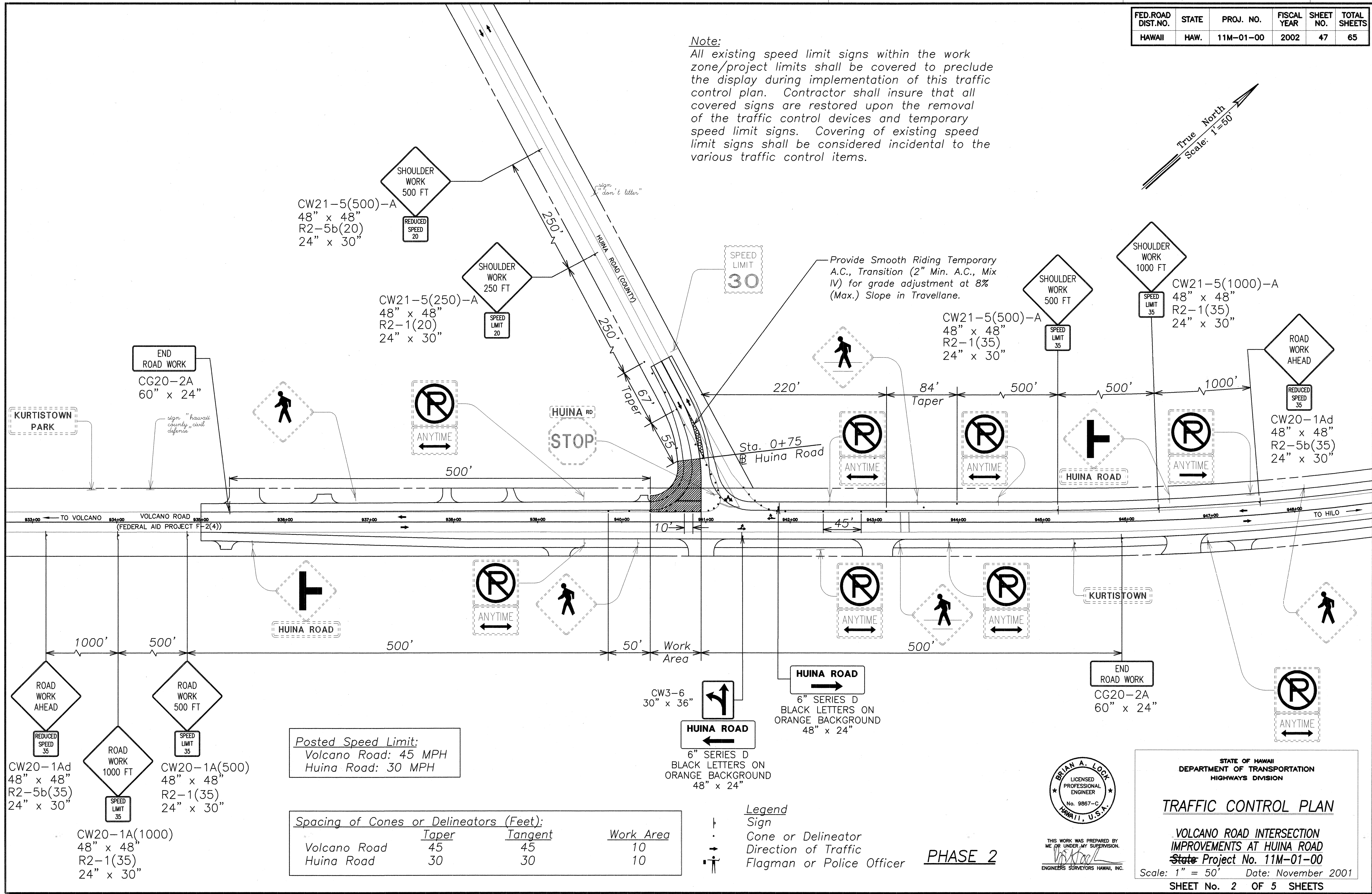
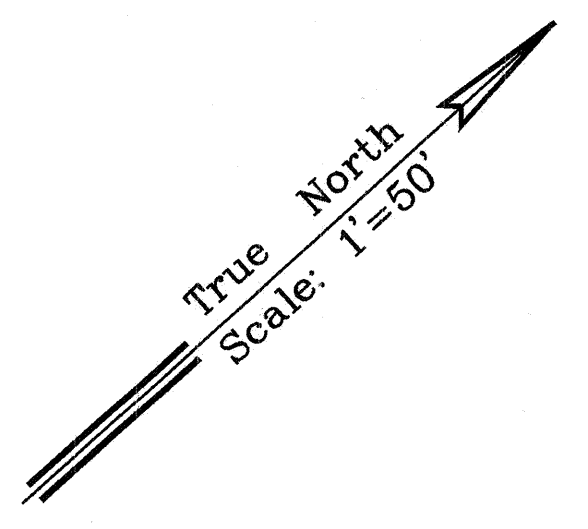
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

VOLCANO ROAD INTERSECTION
IMPROVEMENTS AT HUINA ROAD
State Project No. 11M-01-00
Scale: 1" = 50' Date: November 2001
SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	47	65

Note:
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ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	

Posted Speed Limit:
Volcano Road: 45 MPH
Huina Road: 30 MPH

	<u>Spacing of Cones or Delineators (Feet):</u>		
	<u>Taper</u>	<u>Tangent</u>	<u>Work Area</u>
Volcano Road	45	45	10
Huina Road	30	30	10

Legend
 Sign
 Cone or Delineator
 Direction of Traffic
 Flagman or Police Officer
PHASE 2

BRIAN A. LOCK
LICENSED PROFESSIONAL ENGINEER
No. 9867-C
HAWAII, U.S.A.

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ENGINEERS SURVEYORS HAWAII, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

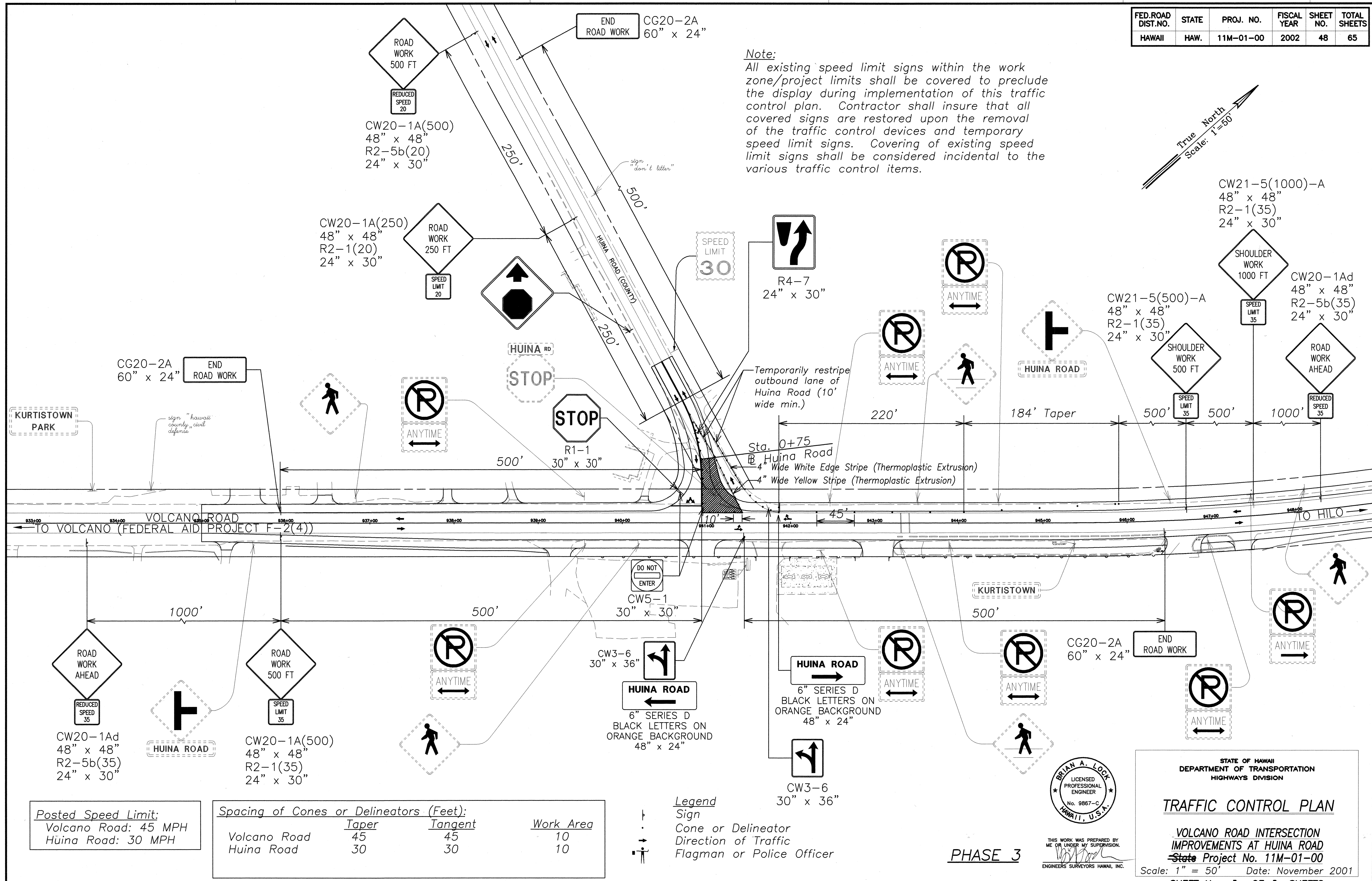
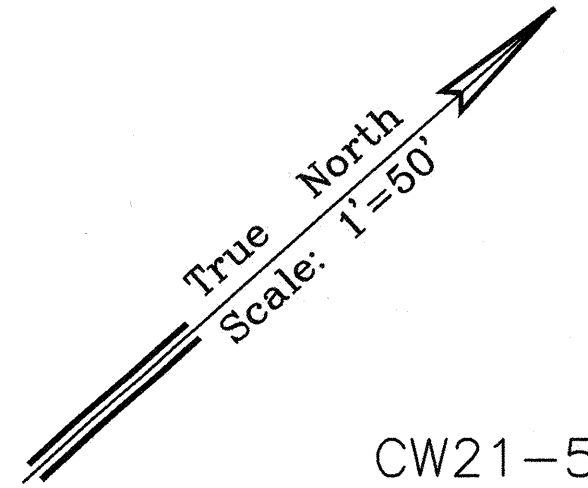
VOLCANO ROAD INTERSECTION IMPROVEMENTS AT HUINA ROAD
State Project No. 11M-01-00

Scale: 1" = 50' Date: November 2001

SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	48	65

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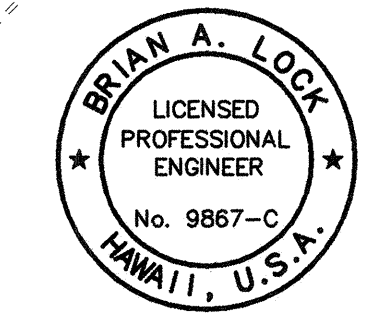


ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
REVISIONS	
BY	
DATE	

Posted Speed Limit:
Volcano Road: 45 MPH
Huina Road: 30 MPH

	Spacing of Cones or Delineators (Feet):		Work Area
	Taper	Tangent	
Volcano Road	45	45	10
Huina Road	30	30	10

Legend
Sign
Cone or Delineator
Direction of Traffic
Flagman or Police Officer



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BRIAN A. LOCK
ENGINEERS SURVEYORS HAWAII, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

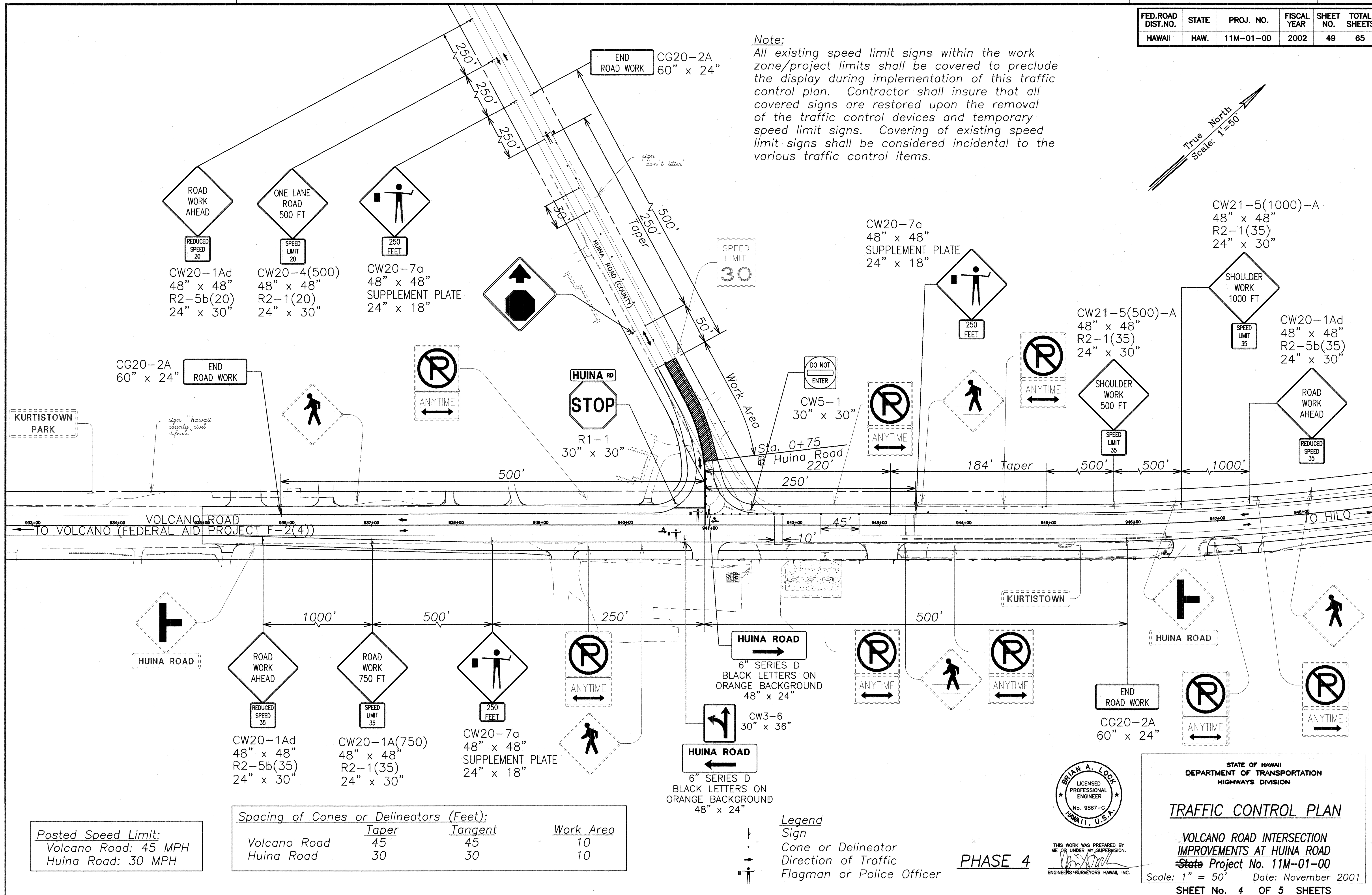
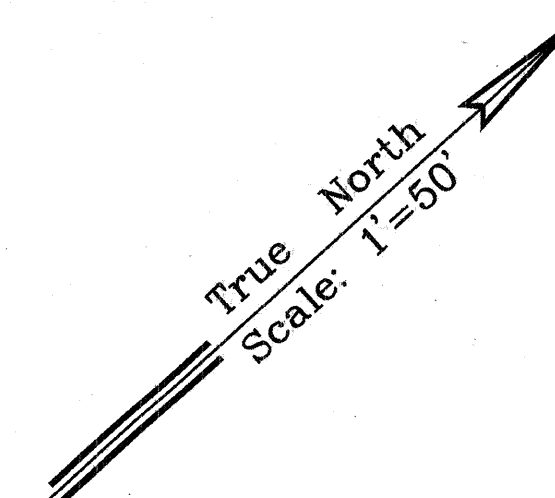
VOLCANO ROAD INTERSECTION
IMPROVEMENTS AT HUINA ROAD
State Project No. 11M-01-00

Scale: 1" = 50' Date: November 2001

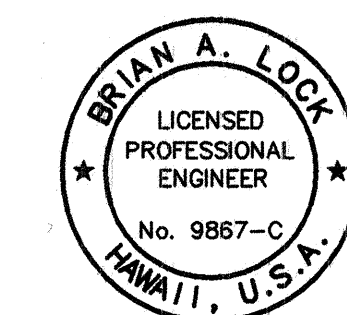
SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2002	49	65

Note:
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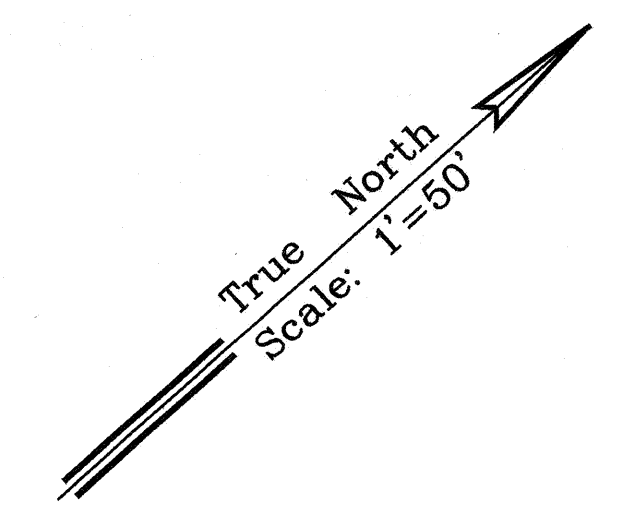
DATE _____
SURVEY PLOTTED BY _____
DESIGNED BY _____
CHECKED BY _____
ORIGINAL PLAN _____
NOTE BOOK _____
HAWAIIAN 49



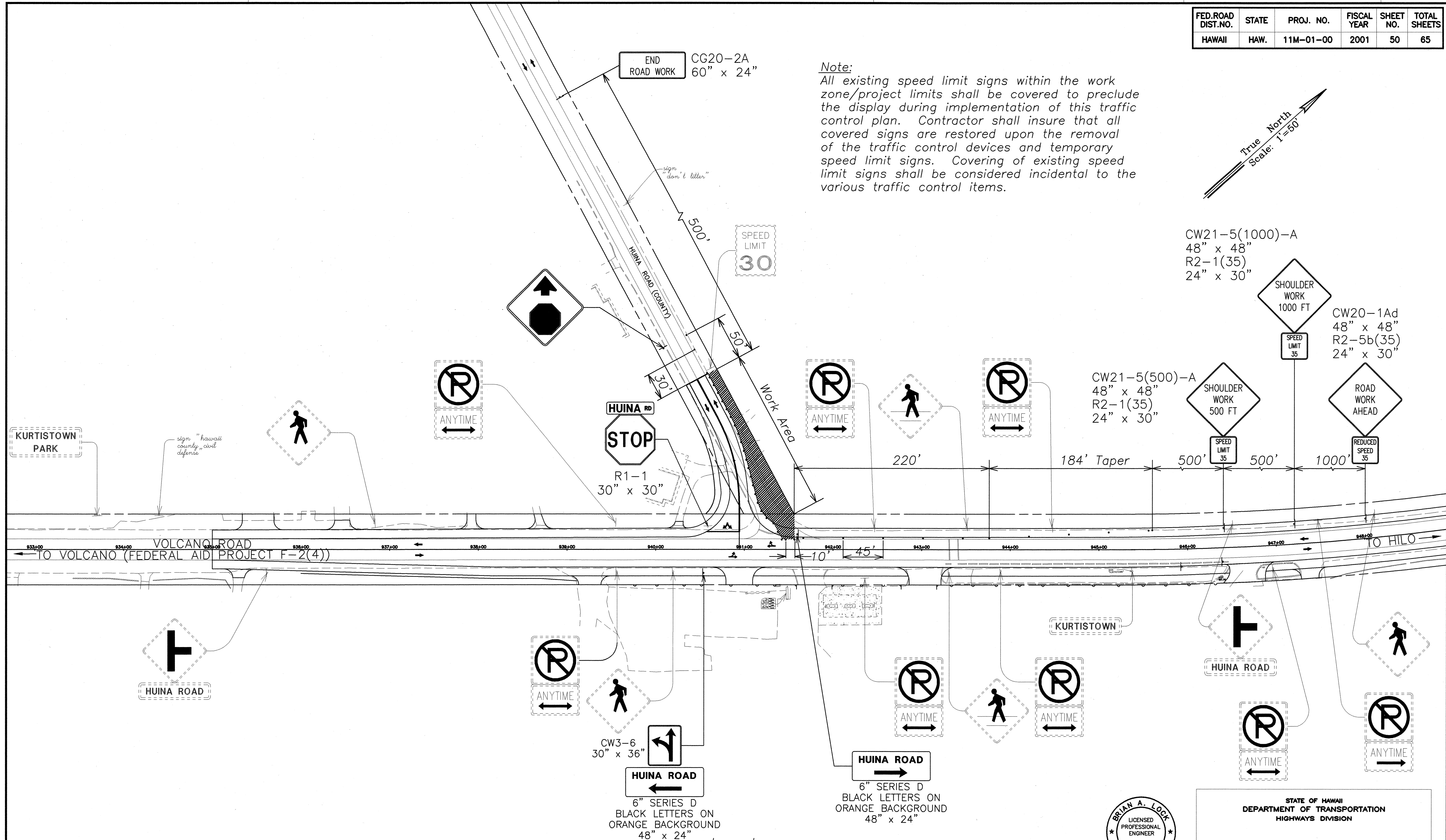
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BRIAN A. LOCK
ENGINEERS-SURVEYORS HAWAII, INC.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11M-01-00	2001	50	65

Note:
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- CW21-5(1000)-A
48" x 48"
R2-1(35)
24" x 30"
- SHOULDER WORK 1000 FT
- SPEED LIMIT 35
- CW20-1Ad
48" x 48"
R2-5b(35)
24" x 30"
- ROAD WORK AHEAD
- REDUCED SPEED 35
- CW21-5(500)-A
48" x 48"
R2-1(35)
24" x 30"
- SHOULDER WORK 500 FT
- SPEED LIMIT 35

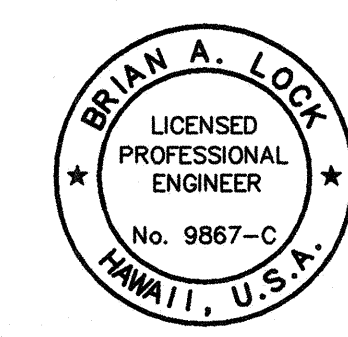


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

Posted Speed Limit:
Volcano Road: 45 MPH
Huina Road: 30 MPH

Spacing of Cones or Delineators (Feet):			
	Taper	Tangent	Work Area
Volcano Road	45	45	10
Huina Road	30	30	10

- Legend
- Sign
 - Cone or Delineator
 - Direction of Traffic
 - Flagman or Police Officer



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BRIAN A. LOCK
ENGINEERS SURVEYORS HAWAII, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

VOLCANO ROAD INTERSECTION IMPROVEMENTS AT HUINA ROAD
State Project No. 11M-01-00

Scale: 1" = 50' Date: November 2001
SHEET No. 5 OF 5 SHEETS

PHASE 5