

CONSTRUCTION HOURS AND ROAD/LANE CLOSURES

- 1. The normal working hours shall be 7:30 P.M. to 6:30 A.M., Sunday night through Friday morning
- 2. The Contractor will be permitted to close Kalanianaʻole Highway during normal working hours. Detour plans on sheets, 53 & 54 shall be in effect during these hours, The Contractor shall provide additional traffic control devices at the work zone as required.
- 3. Detours will not be allowed on weekends from 6:30 A.M. Friday morning through 7:30 P.M. Sunday night, and on State holidays from 6:30 A.M. to 7:30 P.M.
- 4. The Contractor shall notify the State and County transportation agencies, Police and Fire Departments, Ambulance Service and the Department of Health in writing that detours will be in effect at least five working days before the start of construction.
- 5. All work during other than normal working hours shall be approved by the Engineer. Traffic control plans on Sheet 52 shall be utilized during these hours. Only one-lane closure will be allowed. Where possible, two lanes will be provided by detouring traffic over shoulders as shown in Detail 2/52.
- 6. Construction during other than normal hours shall be allowed only for work required to be continued from the night before, or for work that must be accomplished during daylight hours.
- 7. Both lanes shall be open to traffic during non-working hours, weekends and holidays. Each segment of construction shall be scheduled and completed accordingly.
- 8. The Contractor shall provide appropriate traffic control devices, warning signs, and beacons when two-way traffic must be detoured over shoulder, during non-working hours.
- 9. The Contractor shall provide appropriate traffic control devices, warning signs, and beacons when the highway is narrowed for two-way traffic

CONSTRUCTION AT ENTRANCE TO HANAUMA BAY AND BLOW HOLE LOOKOUT

- 1. Hanauma Bay shall be accessible during all hours and days open to the public, Construction shall be scheduled only during hours and designated day Hanauma Bay is closed to the public. The Contractor shall notify Alan Hong, Hanauma Bay Nature Preserve, Manager, at 395-2211 two weeks before construction begins.
- 2. The Blow Hole Lookout shall be open to the public daily from 6:30 a.m. to 7:30 p.m.
- 3. Construction shall be phased at both sites to provide safe vehicular and pedestrian traffic over partially completed pavement surfaces.

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

- 1. The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
- 2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- 3. Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively toward the work area.
- 4. Regulatory and warning signs (excluding speed limit signs) within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of work.
- 5. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
- 6. The Contractor shall install a flashing arrow signal as directed by the Engineer.
- 7. All traffic lanes shall be a minimum of ten (10) feet wide.
- 8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- 9. The backs of all signs used in traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e. When signs have messages on both faces).
- 10. As soon as the day's work is completed, the Contractor shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
- 11. Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
- 12. The Contractor shall control traffic going in and out of driveway(s).
- 13. When excavating within five feet of traffic lanes, the contractor shall use a continuous line of portable concrete barriers with Inertial Barrier Systems or portable water-filled barriers.
- 14. During non-working hours, the Contractor shall provide a continuous line of portable concrete barriers with Inertial Barrier Systems or portable water-filled barriers for portions of shoulder work where the guardrail and/or end treatments are not in service or as directed by the Engineer. The incomplete shoulder work shall not exceed 100 feet at a time.

TRAFFIC CONTROL FOR CONSTRUCTION AT IHIHILAUKEA

- 1. Provide temporary concrete barriers along entire length of bridge during non-working hours. Install barriers as close as possible to areas under construction.
- 2. Extend barrier panels past bridge ends and install inertial barrier modules as end treatments as shown on detail Sheet No. 52.
- 3. Temporary concrete barriers to remain along both sides until all construction on the bridge is completed.
- 4. Provide adequate warning signs of narrow bridge and beacons for traffic safety during non-working hours.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(41)	1999	51	54

FILE: DOT96227
SCALE: 1"=1'
BEG: 07/03/98

PM: BKM
OPER: BKM SAI
REVISED: 07/22/98

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

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

CONSTRUCTION TRAFFIC CONTROL

NOTES

Kalanianaʻole Highway

Guardrail and Roadway Improvements

Hanauma Bay to Sandy Beach

Federal Aid Project No. STP-072-1(41)

Scale: As Shown

Date: Aug. 1998

SHEET NO. 51 OF 54 SHEETS

51

BARRY K. MURANKA

LICENSED PROFESSIONAL ENGINEER

No.8418-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED

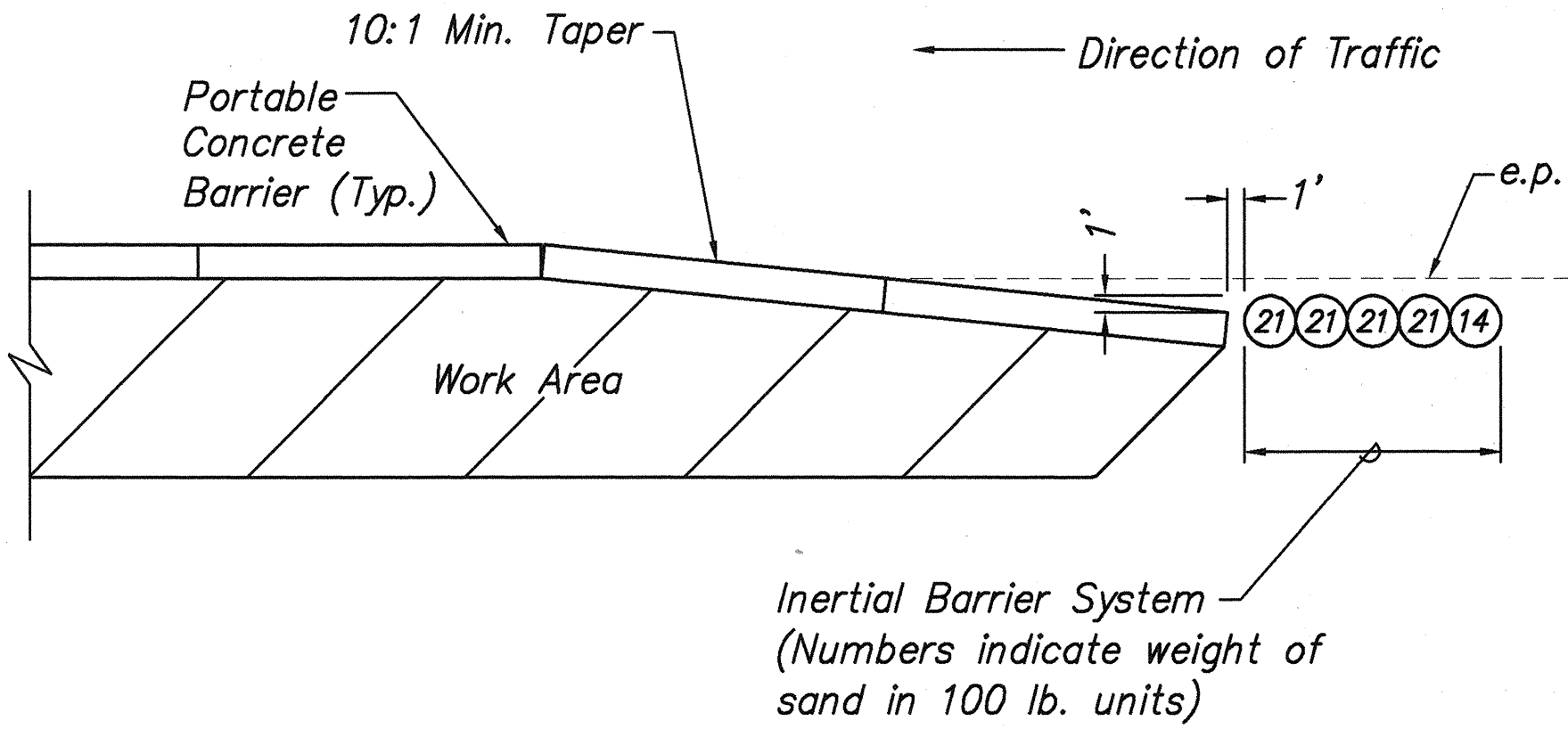
BY ME OR UNDER MY

SUPERVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(41)	1999	52	54

Table 1 For Traffic Control Plan

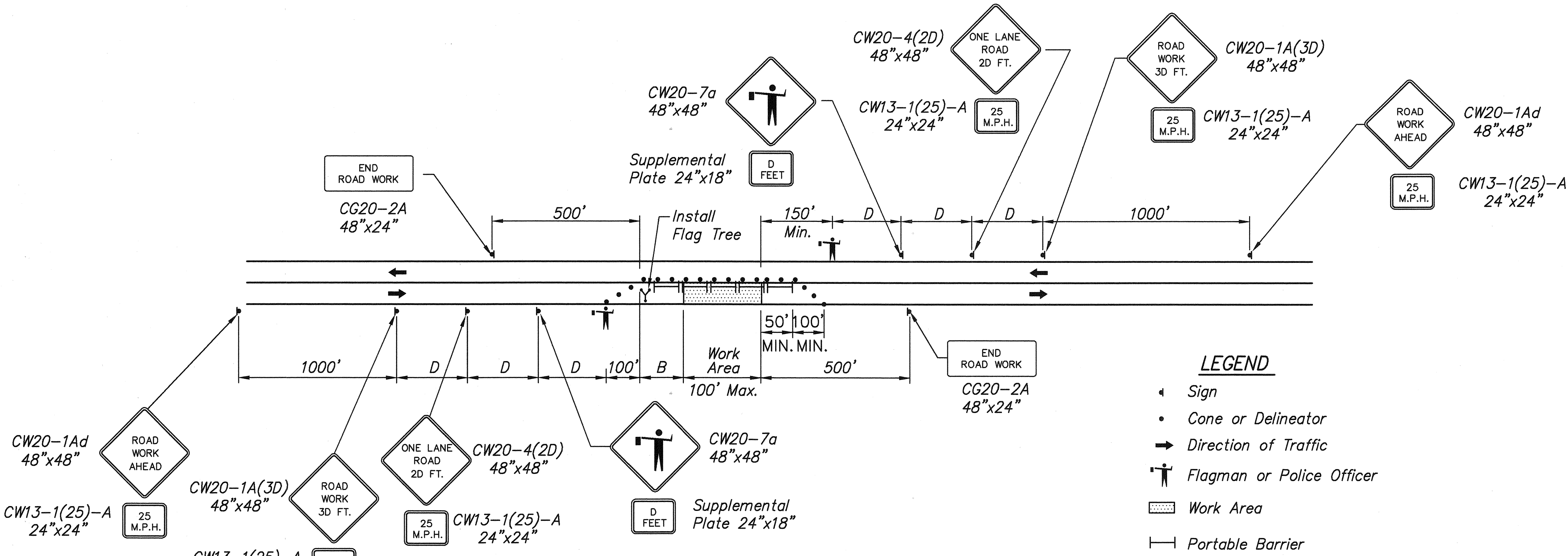
Posted Speed Limits (M.P.H.)	Sign Spacing (D) (Feet)	Longitudinal buffer space (B) (Feet)	Spacing of cones or delineators (Feet)		
			Taper	Tangent	Work Area
20	250	35	20	20	10
25	250	55	25	25	10
30	250	85	30	30	10
35	250	120	35	35	10
40	500	170	40	40	10
45	500	220	45	45	10
50	1000	280	50	50	10
55	1000	335	55	55	10



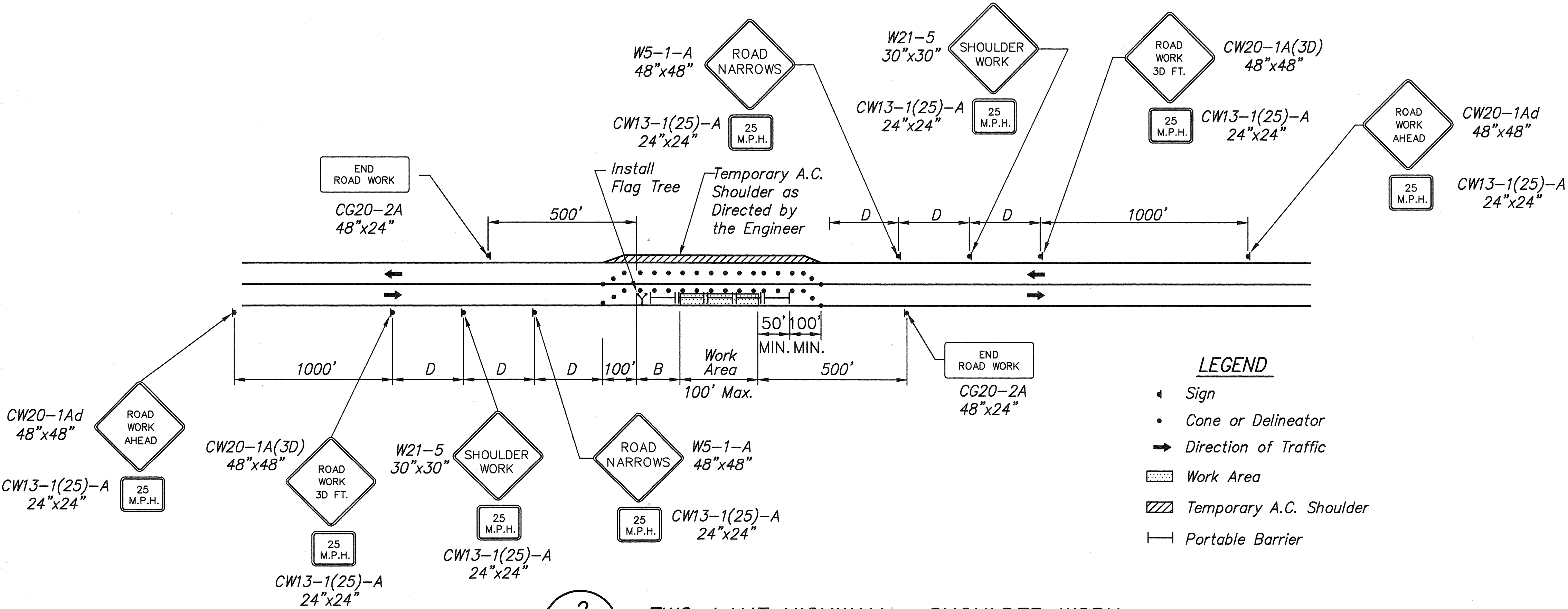
TYPICAL DETAIL

5-MODULE INERTIAL BARRIER

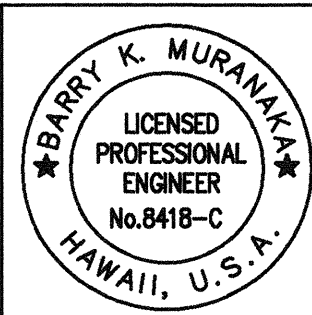
Scale: 1" = 10'



1
52
TWO-LANE HIGHWAY - ONE LANE CLOSED
TRAFFIC CONTROL PLAN
Not to Scale



2
52
TWO-LANE HIGHWAY - SHOULDER WORK
TRAFFIC CONTROL PLAN
Not to Scale

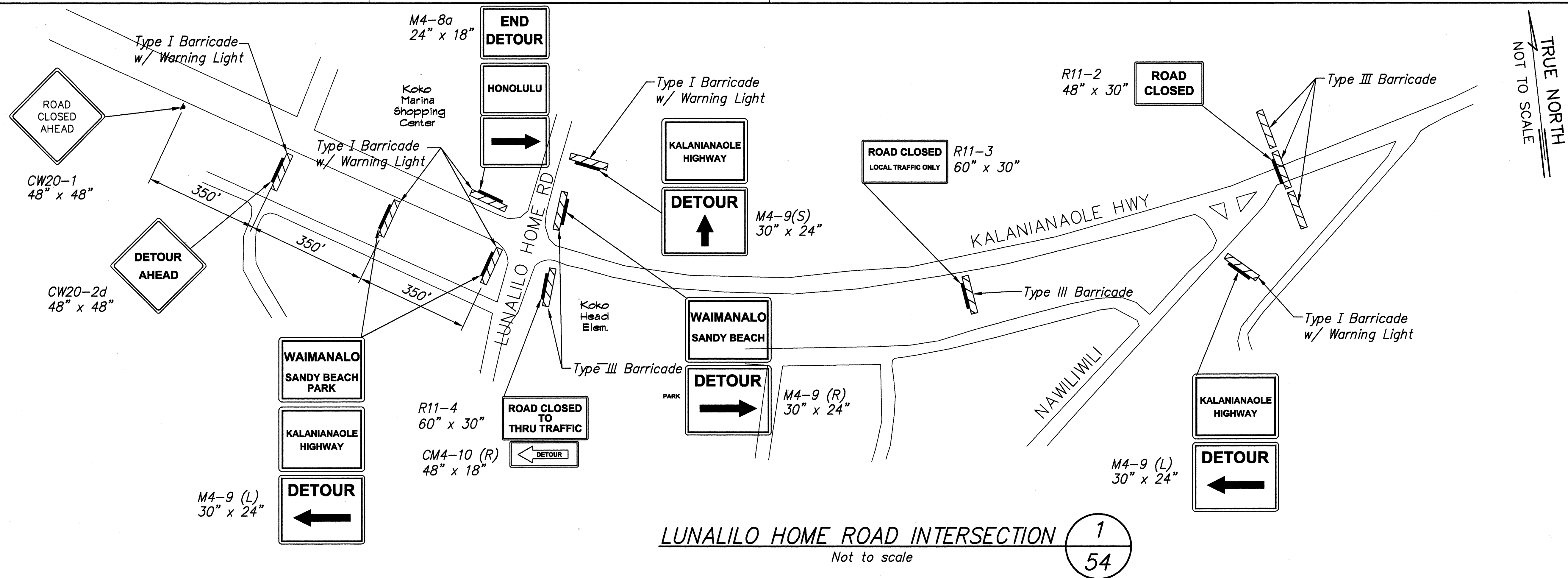


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION TRAFFIC CONTROL
DETAILS, & NOTES

Kalaniana'ole Highway
Guardrail and Roadway Improvements
Hanauma Bay to Sandy Beach
Federal Aid Project No. STP-072-1(41)
Scale: As Shown Date: Aug. 1998

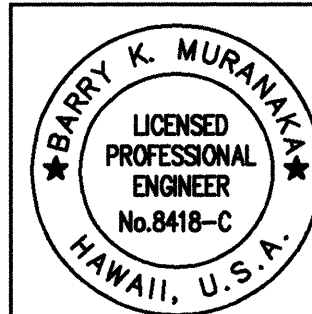
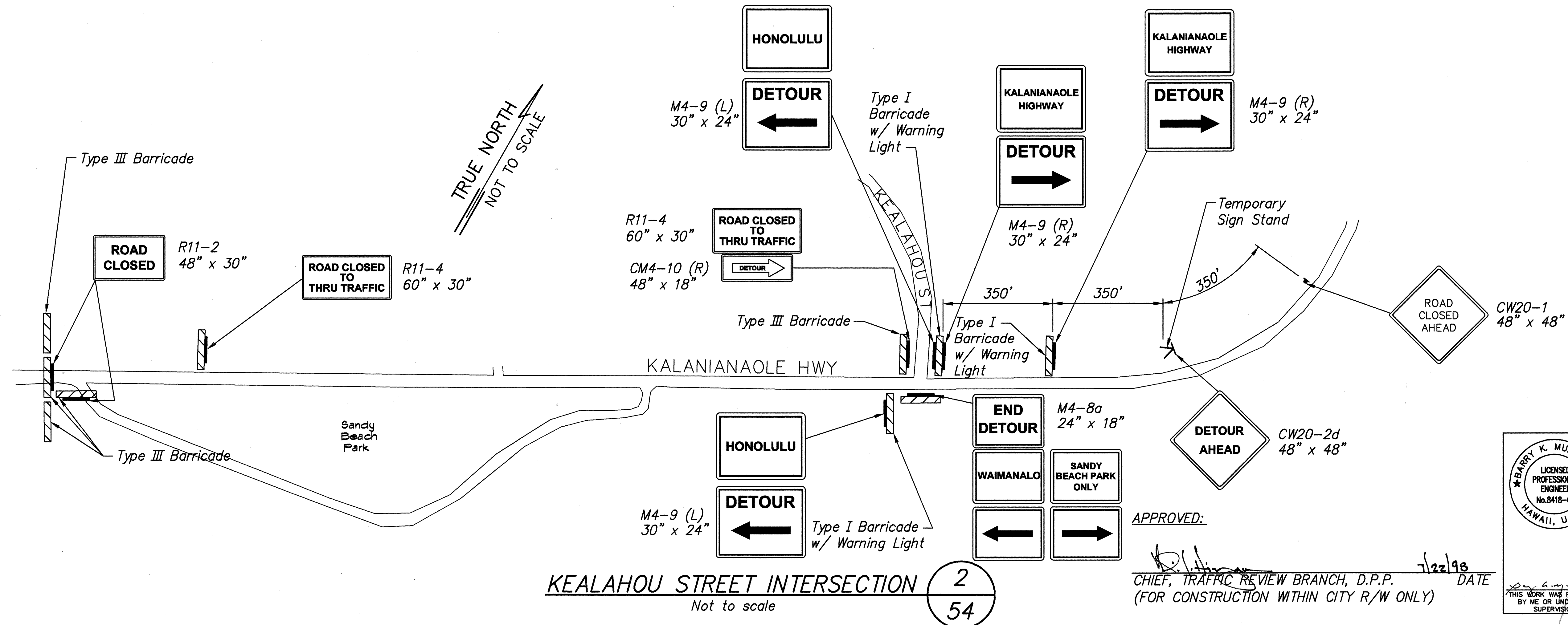
SHEET NO. 52 OF 54 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	H.A.W.	STP-072-1(41)	1999	54	54



PM: STY
OPER: OKY, RGO, BKM
REVISED: 07/20/98

FILE: DOT96239
SCALE: 1"=1'
BEG: 03/06/97



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION TRAFFIC CONTROL
DETOUR DETAILS
Kalaniana'ole Highway
Guardrail and Roadway Improvements
Hanauma Bay to Sandy Beach
Federal Aid Project No. STP-072-1(41)
Scale: As Shown Date: Aug. 1998
SHEET NO. 54 OF 54 SHEETS

APPROVED: *[Signature]* 7/22/98
DATE
CHIEF, TRAFFIC REVIEW BRANCH, D.P.P.
(FOR CONSTRUCTION WITHIN CITY R/W ONLY)