

CONSTRUCTION PHASING NOTES

1. In general, it is intended that the work proceed in phases.
2. Depending on the scope of work required for each phase, the work shall start and continue without interruption (in that specific phase), until all the work in the phase is completed or substantially completed by opening up phased work for public use and before any work may commence on the next phased work.
3. Depending on the scope of work required for each phase, portions of work in adjacent construction phases might need to be done to enable the work in the current phase to be finished (e.g. construction of temporary or permanent facilities prior to demolition of existing facilities, etc.) if such work in adjacent phases ("out of sequence work") is needed to facilitate or expedite work, it may be allowed by the engineer, but only after the engineer reviews the contractor's traffic control plan (tcp) covering such "out of sequence work" and that the phase work next will not cause an inconvenience to the public.
4. The Contractor shall notify the Engineer prior to beginning work in each phase and get authorization from the Engineer to begin the work in each phase.
5. Install Type II barricades or portable concrete barrier with steady burn amber lamps as shown in the mutcd.
6. Work at some locations throughout the project area may be in separate phase of work to be completed at sometime during the course of the project, whichever is most convenient for the contractor and accepted by the Engineer.
7. Construction phasing and detour plan shall include all pertinent information in accordance with Section 645 of the specifications.

TRAFFIC CONTROL NOTES

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 shall be placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and warning 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. When required by the issuinig officer, the permittee shall install a flashing arrow signal as shown on the traffic control plans.
6. Sign spacings (L), taper lengths (T), buffer lengths (B), temporary traffic control zone speed limit (XX and spacing of cones or delineators shall be as shown in Table I, unless otherwise noted on the traffic control plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.

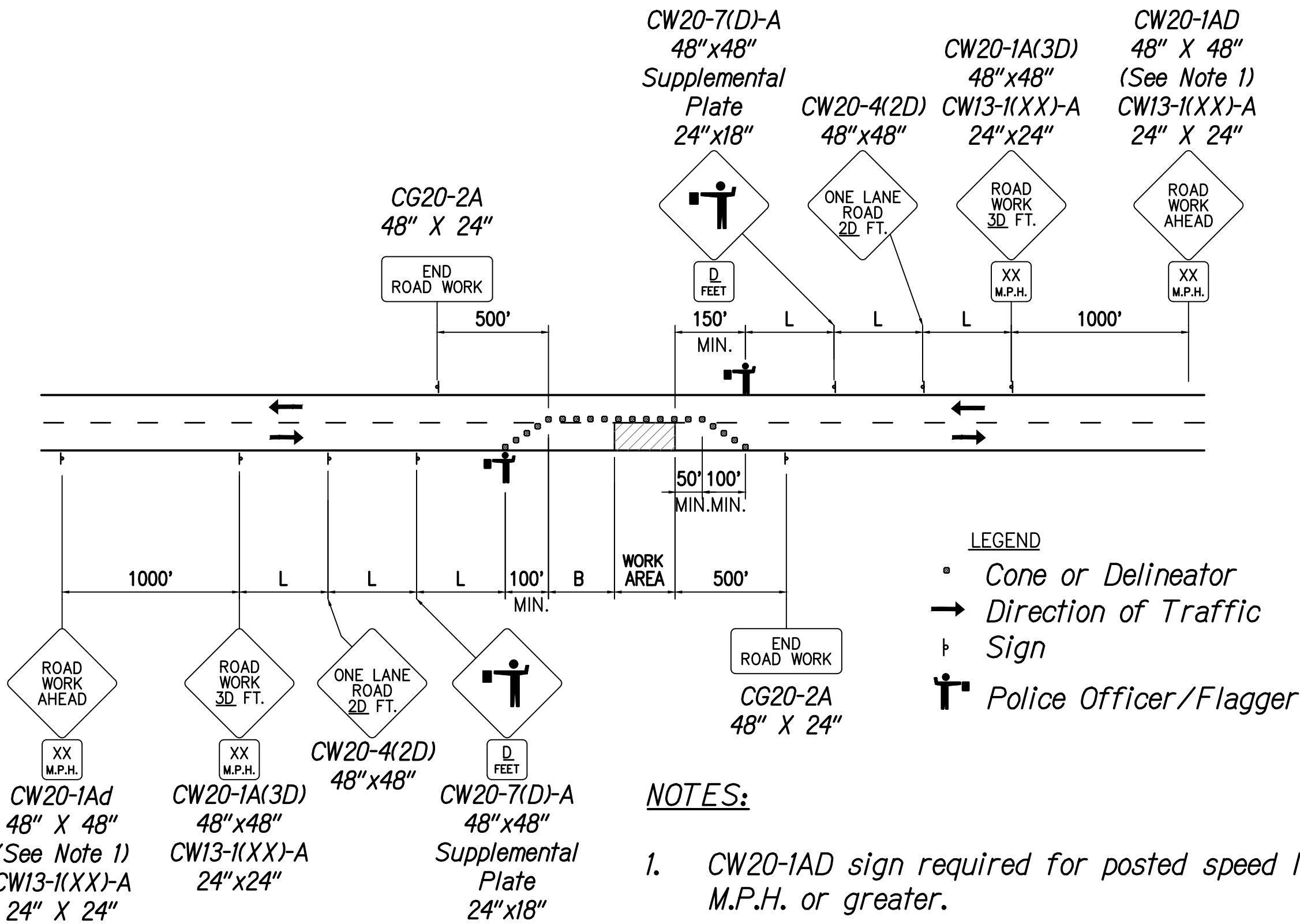
TRAFFIC CONTROL NOTES (cont.)

9. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces.
10. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
11. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 631.5000 - Regulatory Sign (More than 10 Square Feet) and Item No. 631.6000 - Warning Sign (10 Square Feet or Less).
12. Replace permanent pavement markings and traffic signs upon completion of each phase of work.

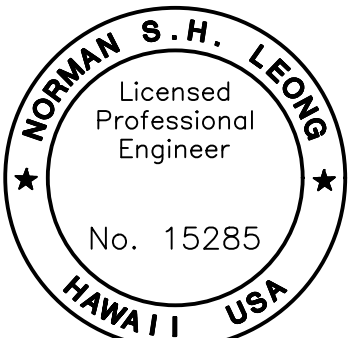
TABLE I FOR TRAFFIC CONTROL PLAN								
Posted Speed Limit (M.P.H.)	Sign Spacing (L) (Feet)	Taper Length (T) (Feet)		Buffer Length (B) (Feet)	Spacing of Cones or Delineators (feet)			TCP Speed Limit, Max. (XX) (M.P.H.)
		W*=12' or Less	W*= Greater Than 12'		Taper	Tangent	Work Area	
35	250	250	W x 35	250	25	35	10	25
45	350	540	W x 45	360	25	45	10	35

W* = Width of Lane, Shoulder or Offset

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS1P-011-1(045)	2023	86	114



TWO-LANE HIGHWAY - ONE LANE CLOSED



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Norman S. H. Leong
Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL NOTES AND DETAILS

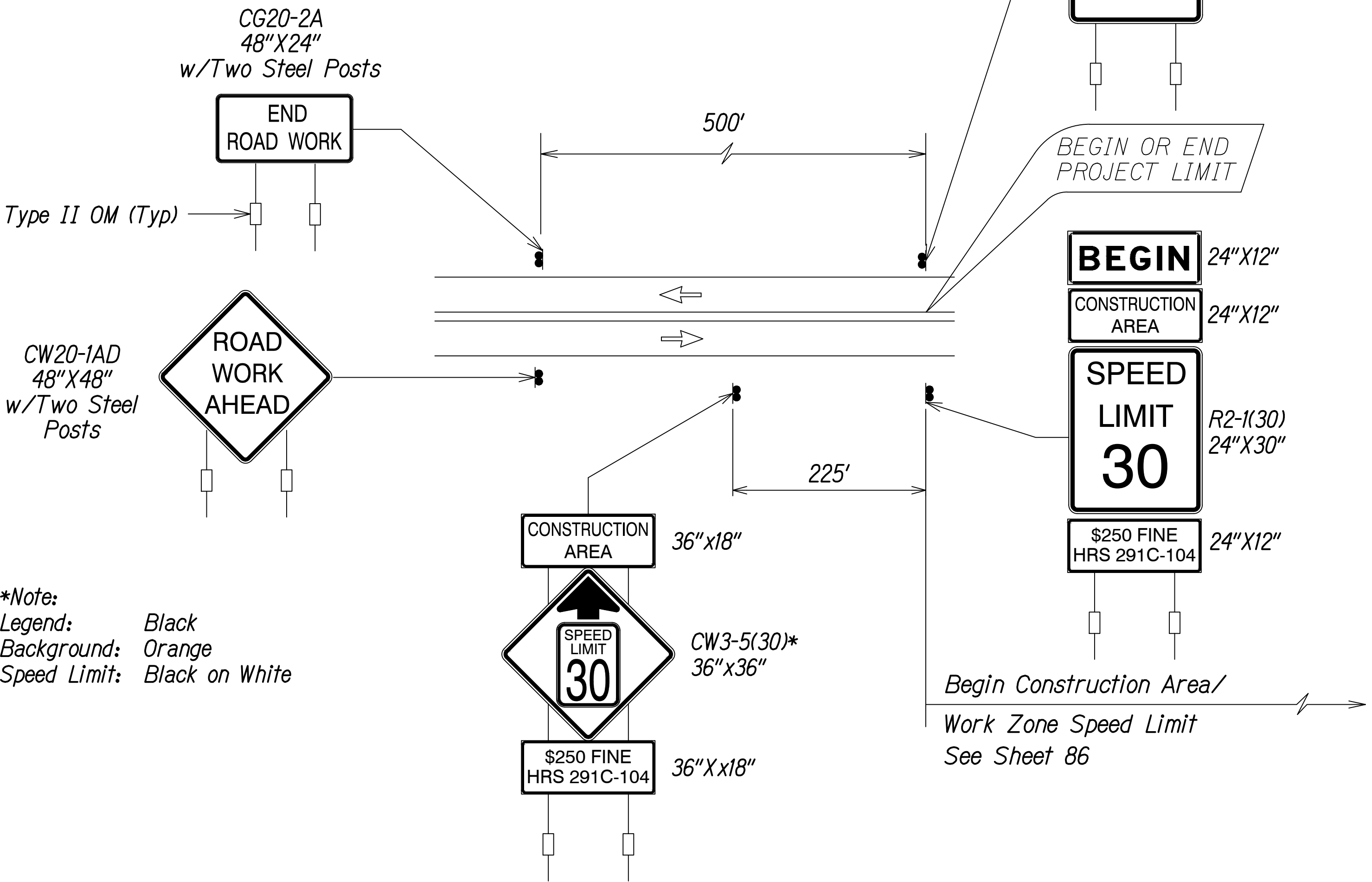
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HS1P-011-1(045)
Scale: NTS Date: September 2023

SHEET No. 1 OF 1 SHEETS

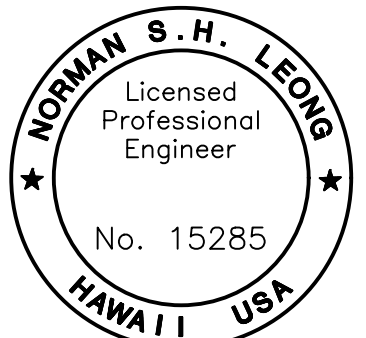
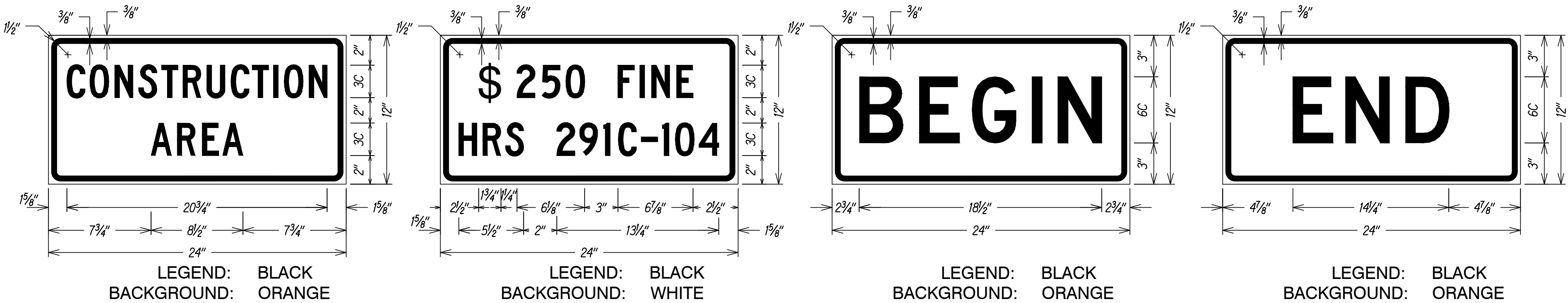
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-011-1(045)	2023	87	114

WORK ZONE NOTES:

- This work zone sign plan is intended for use on long-term stationary work zones/construction phases (3 days or more). all work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
- All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and CW3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
- Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
- Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.1000 - Traffic Control.
- Upon the completion of all physical work or as directed by the engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
- Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
- The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000 - Traffic Control.



TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED HIGH SPEED HIGHWAY



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Norman S. H. Leong
Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**LOW SPEED UNDIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES & DETAILS**
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HSIP-011-1(045)
Scale: NTS Date: September 2023
SHEET No. 1 OF 1 SHEETS