




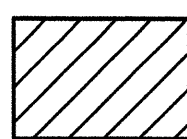




GENERAL NOTES FOR TRAFFIC CONTROL PLAN

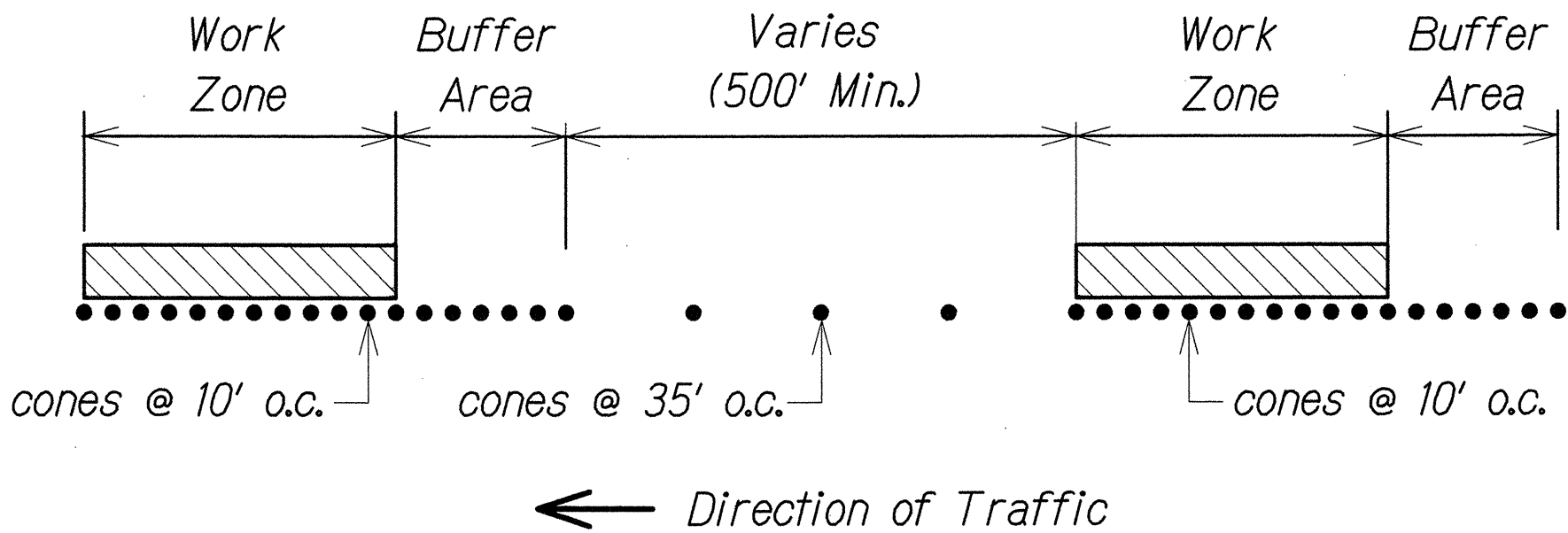
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11-01-14M	2014	38	42

LEGEND

-  Portable Arrow Board
-  Sign
-  Existing Sign
-  Direction of Traffic
-  Cones with Retroreflective bands
(All cones in work area shall be 28" high).
-  Work Area
-  Portable Concrete Barriers
(See Standard Details TE-42 and TE-43)
-  Police Officer

1. Only Traffic Control Plans for major construction activities are shown. The Contractor shall develop his own Traffic Control Plans in accordance with Section 645 of the Special Provisions or the current US Federal Highways Administration "Manual on Uniform Traffic Control Devices, Part IV-Standards and Guides for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations" (MUTCD 2009) for activities to complete work not covered by the Traffic Control Plans. The Contractor shall follow the more stringent guidelines. The Contractor shall submit the Traffic Control Plans to the Engineer for approval. Payment for development and implementation of the Traffic Control Plans shall be considered incidental to the various contract items.
2. All lane closures and traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for approval in accordance with Specifications Section 645-Work Zone Traffic Control. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Section 107.06 - Contractor Duty Regarding Public Convenience, and Section 645-Work Zone Traffic Control.
3. Sites requiring lane closures are as indicated in the plans. Additional lane closures are prohibited unless otherwise approved by the Engineer. Daytime lane closures are prohibited along H-1. Fees for unauthorized lane closures shall be borne by the Contractor in accordance with Section 108-Prosecution and Progress of the Special Provisions.
4. The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
5. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
6. 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. Likewise, removal of the traffic control should begin with the device closest to the work area and progressively away from the work area.
7. Regulatory and warning signs within the construction zone that are in conflict with the traffic plans shall be removed or covered.
8. Flaggers and/or police officers shall be in sight of each other or in direct communications at all times.
9. Sign spacings (L), taper lengths (T), and spacings of cones or delineators shall be as shown in Table 1 of Section 645 in the Specifications, unless otherwise noted on HDOT's Traffic Control Plans.
10. All traffic lanes shall be a minimum of 11 feet wide.
11. All signs shall be promptly removed or covered whenever the message is not applicable or not in use.
12. The backs of all signs for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).

13. At the end of each day's work or as soon as the 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.
14. Replace permanent pavement markings and traffic signs upon completion of each phase of work. Temporary pavement markings and traffic signs shall be used in the interim.
15. Existing conflicting pavement markings shall be removed and temporary pavement markings shall be installed before traffic patterns are changed. After completion of the work, temporary pavement markings shall be removed. Payment for removal of existing pavement markings; and furnishing, installing, and removal of temporary pavement markings, whether or not shown on the Traffic Control Plans shall be considered incidental to the various contract items.
16. The locations of pavement markings, signs, and delineators used in the Traffic Control shall be as shown on the plans, Contractor's approved Traffic Control Plans, and/or as determined in the field by the Engineer.
17. Damage to signs, temporary pavement markers, and delineators caused by the public or Contractor's negligence shall be repaired or replaced by the Contractor at the Contractor's expense.
18. Signs for night work shall be retroreflective and shall be mounted with a Type B high intensity flasher.
19. Work zone limits shown for each traffic control phase encompass all work items to be completed in that particular phase. The length of the work zone may be reduced to accommodate the Contractor's actual work zone for that time period, provided it has been accepted by the Engineer, and all tangents, tapers, and buffer lengths are maintained.
20. The Contractor is responsible for providing all sign supports and/or posts for construction warning signs.
21. For intermittent work zones within a particular traffic control phase, only cones along the actual work zone need to be placed at 10' o.c. The intermittent work zone shall include a 220' buffer area along the leading edge of traffic flow. All other traffic control cones can be placed at 35' o.c. See typical detail below.



TYPICAL CONE SPACING FOR INTERMITTENT
WORK ZONE
Not to Scale

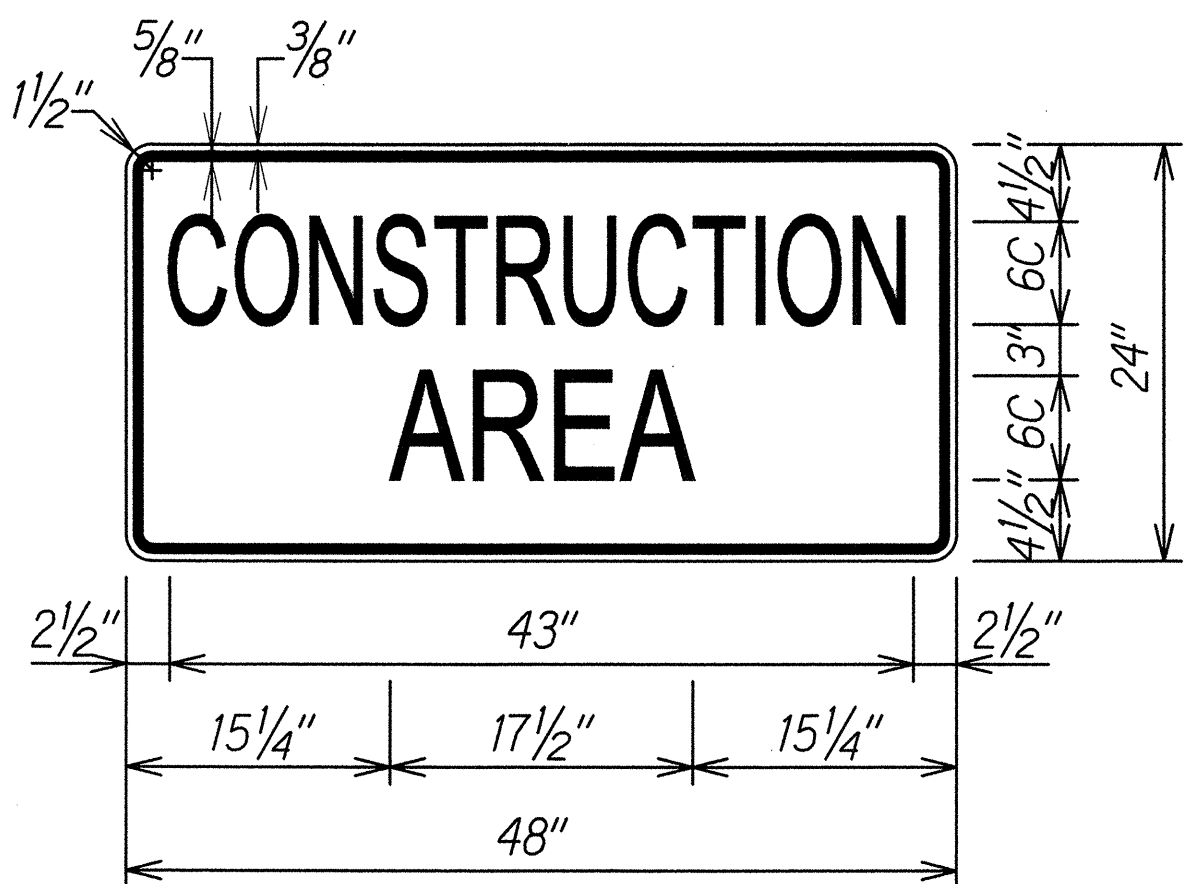
DATE	____
DESIGNED BY	____
CHECKED BY	____
NOTED BY	____
ORIGINAL PLAN	____

TC-01 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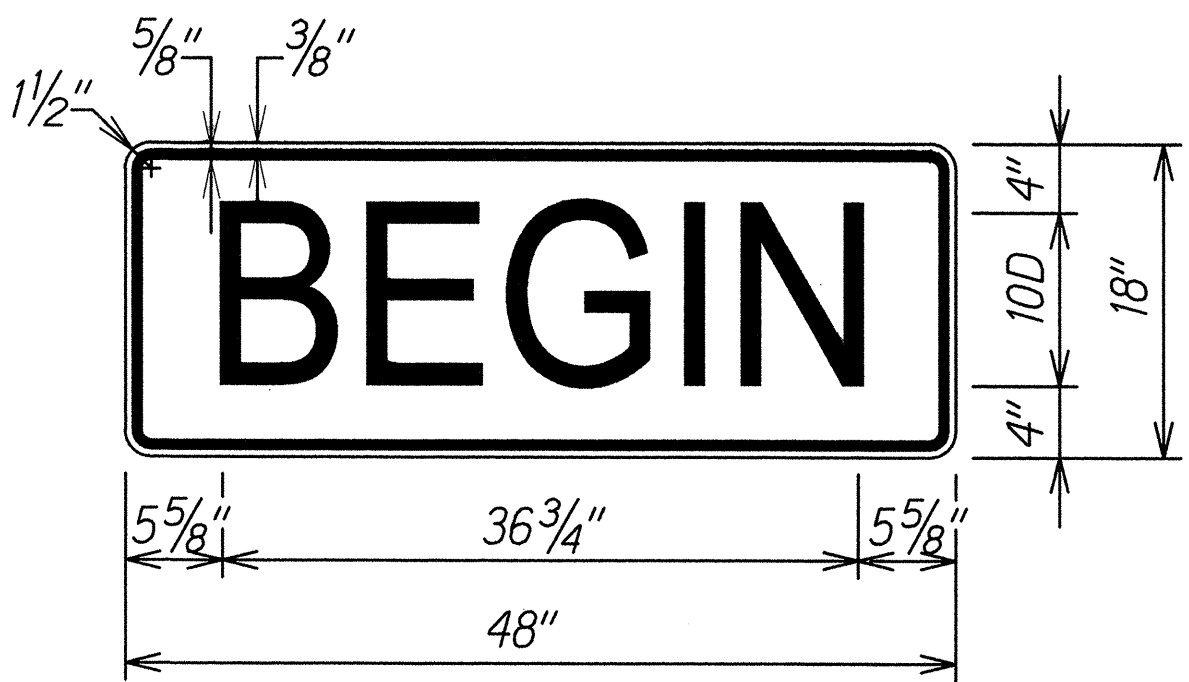
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11-01-14M	2014	39	42

Work Zone Note:

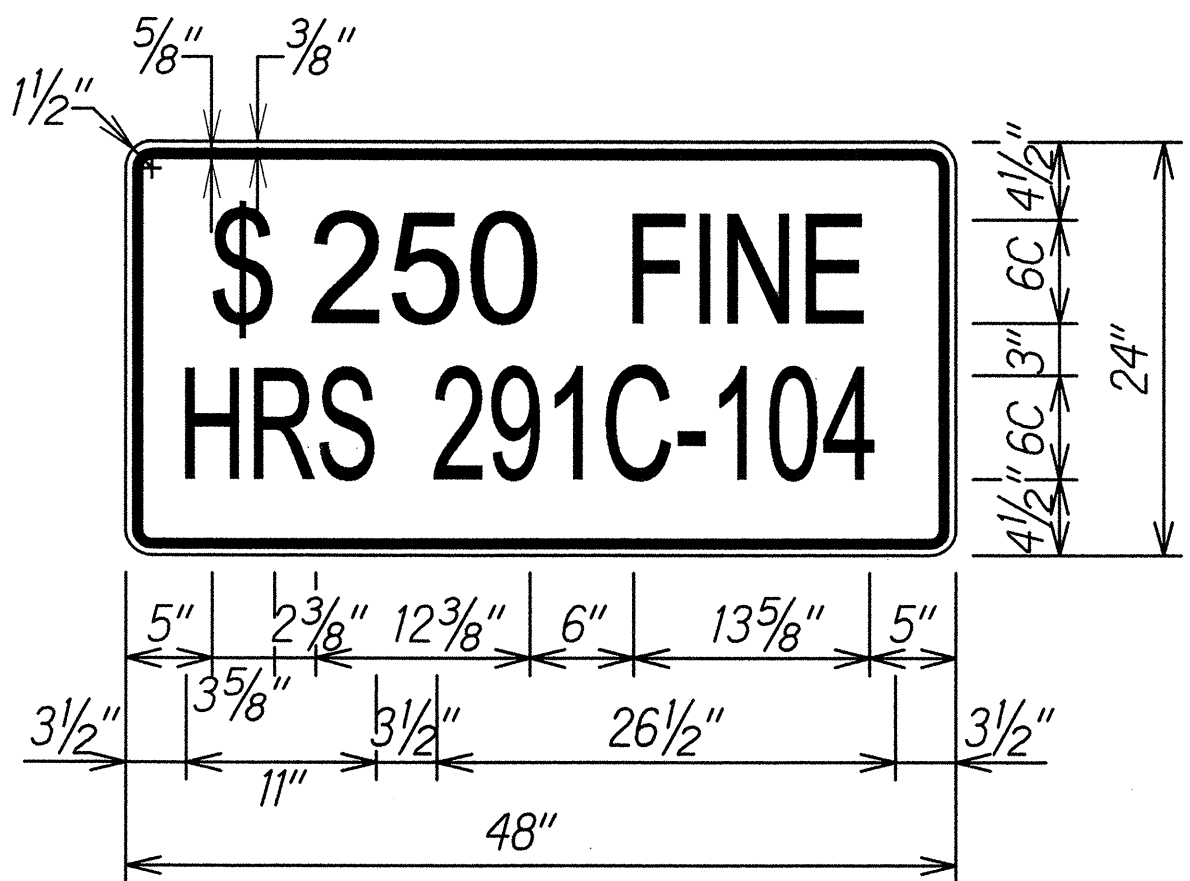
1. All existing regulatory speed limit signs within the work zone/project limits shall be covered and work zone speed limit sign assemblies (R2-1(45)-A and R2-5b(45)-A with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs) shall be displayed during lane closure hours.
2. Upon removal of the lane closure, all work zone speed limit signs shall be covered and existing speed limit signs within the work zone/project limits shall be restored.
3. Construction signs shall be installed on both the approaching and trailing ends of each work zone.
4. Each construction 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- Work Zone Traffic Control.
5. All work zone speed sign assembly shall be mounted on three (3) 4.00 lbs./ft. galvanized flanged channel sign posts with a sign clearance height of five (5) feet. Sign stiffeners as specified by Standard Plan Sheet TE-02 shall be installed as needed or as directed by the Engineer.
6. The daily covering and uncovering of existing regulatory speed limit signs along with the installation; maintenance, removal and daily covering and uncovering of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000-Traffic Control.
7. All work zone signs shall have the project number and Contractor's name on the back of the sign in 1/2" high letters, black paint.
8. All traffic cones, delineators, and barrels, etc. shall have retroreflective bands.
9. All cones shall be retroreflective as required by MUTCD and be a min. of 28" high & weigh a minimum 10 pounds.



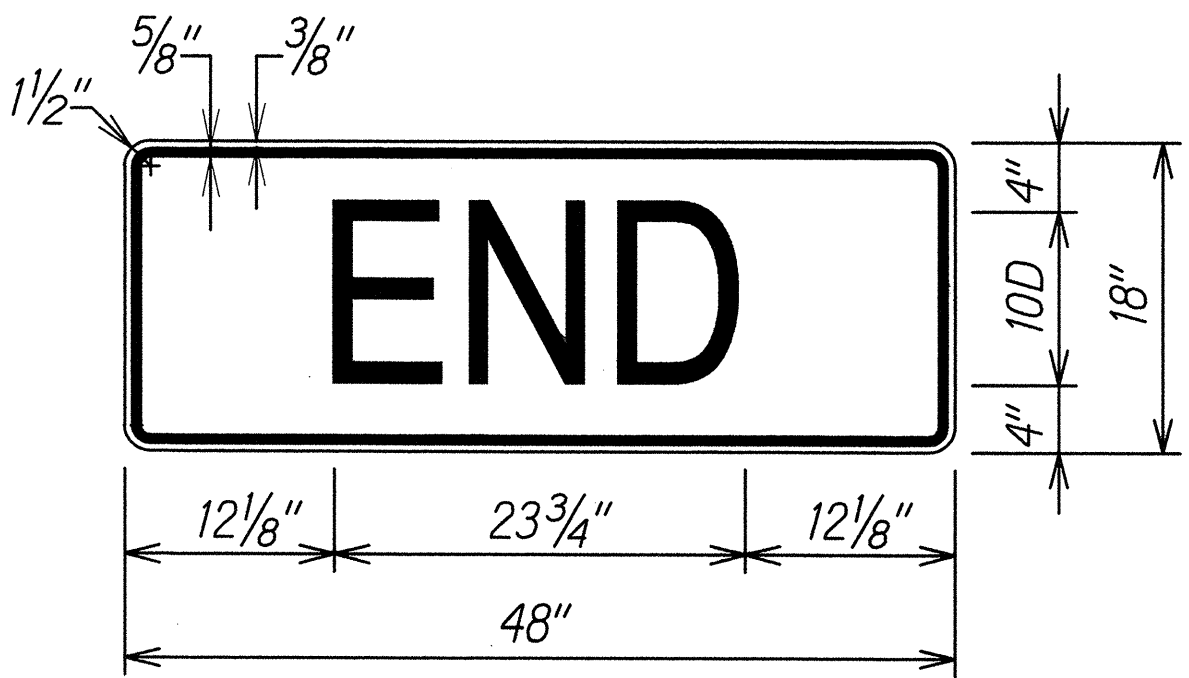
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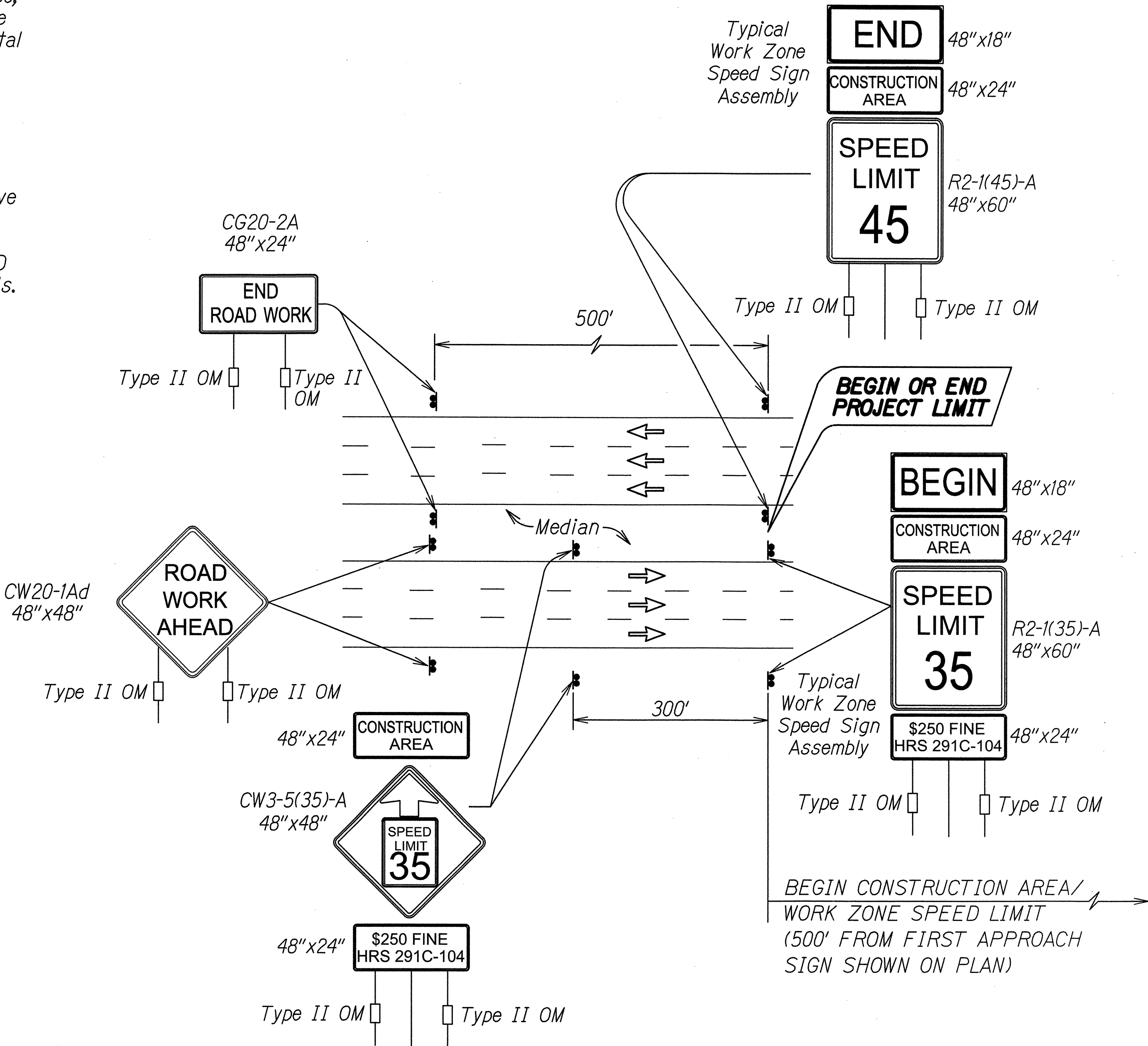
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LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE



TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON HIGH SPEED HIGHWAY

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
NO.	

TC-02 TOP-NOTES/2016 5/29/2013 11:46:15 AM

JASON H. LAU
LICENSED PROFESSIONAL ENGINEER
NO. 9360-C
HAWAII, USA
EXP. DATE 4/30/14

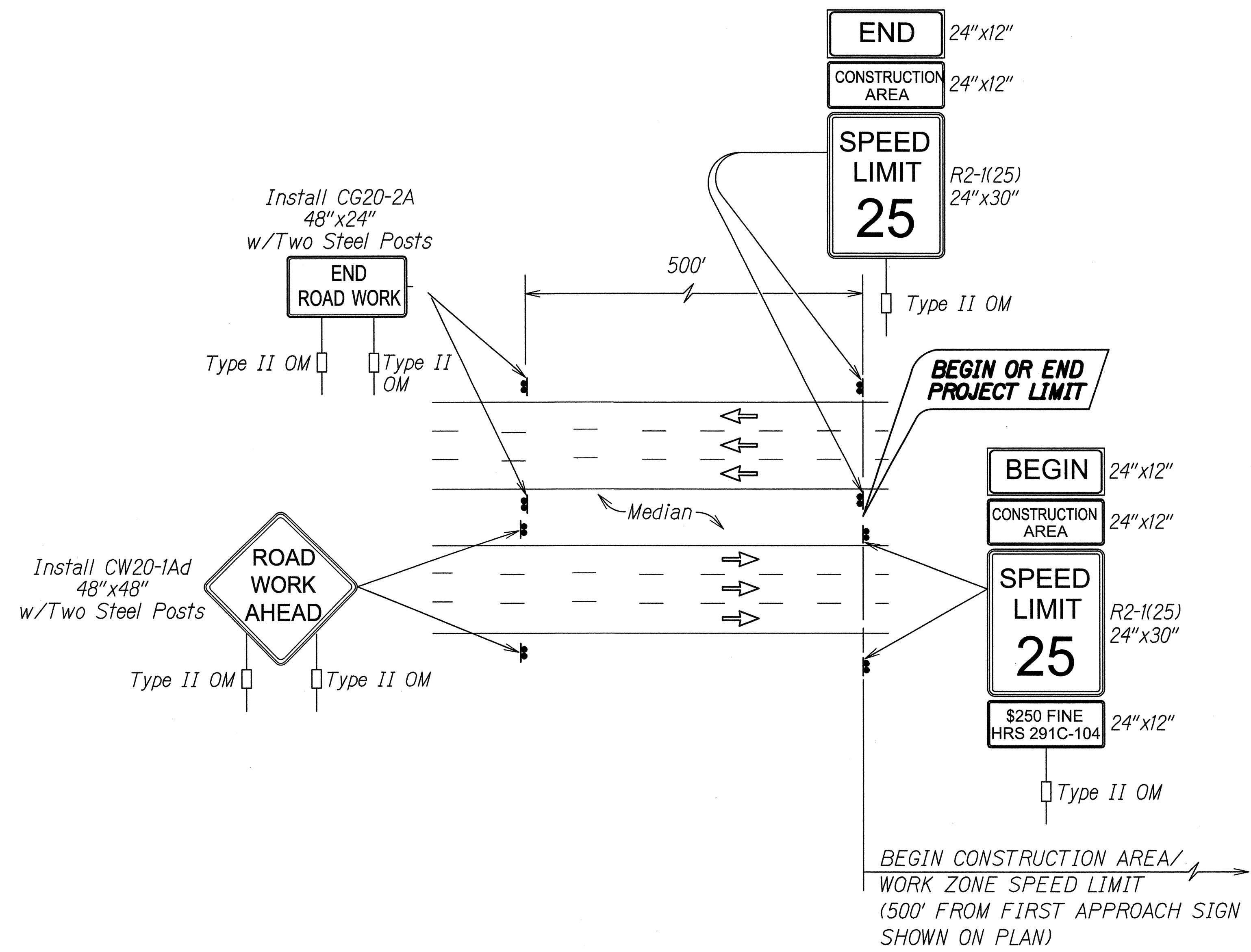
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FREEWAY WORK ZONE SIGNING
PLAN, NOTES & DETAILS

ALA WAI WATERSHED STORM WATER
BEST MANAGEMENT PRACTICES ON OAHU
Project No. H11-01-14M
Scale: None Date: January 2014

SHEET No. TC-02 OF 5 SHEETS

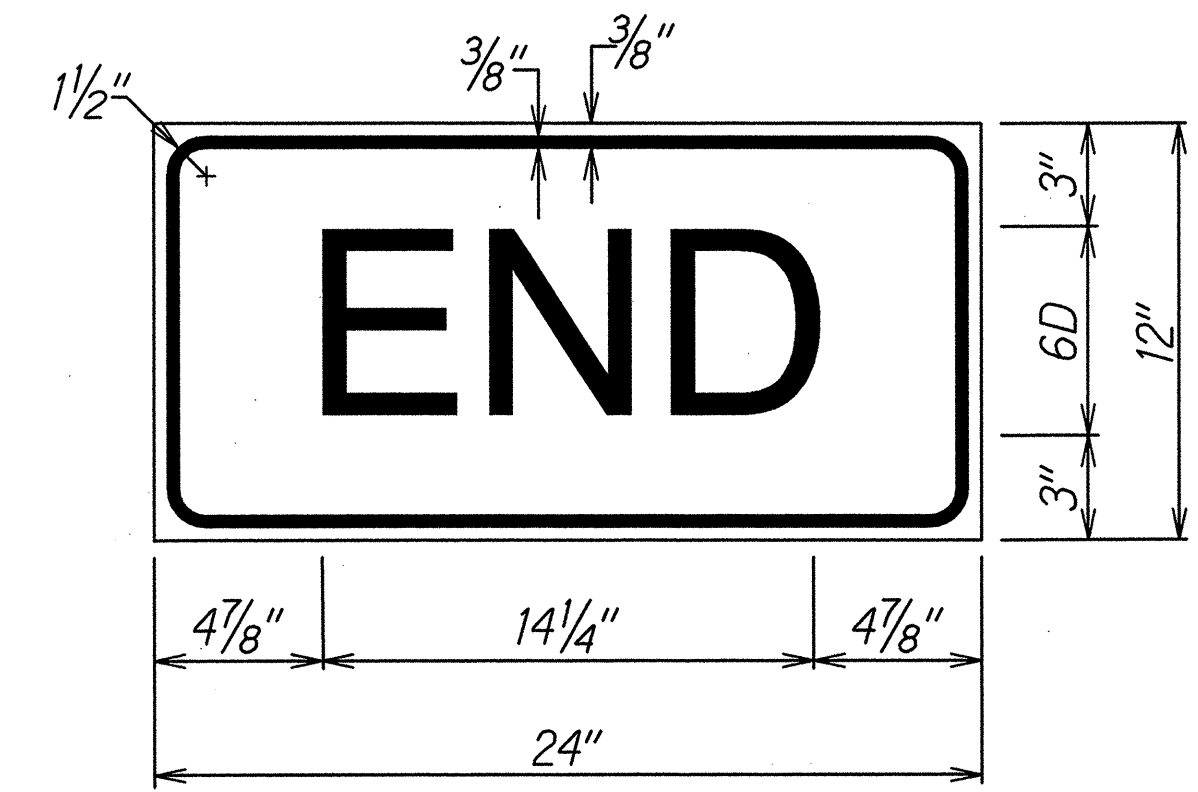
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HAWAII	HAW.	H11-01-14M	2014	40	42



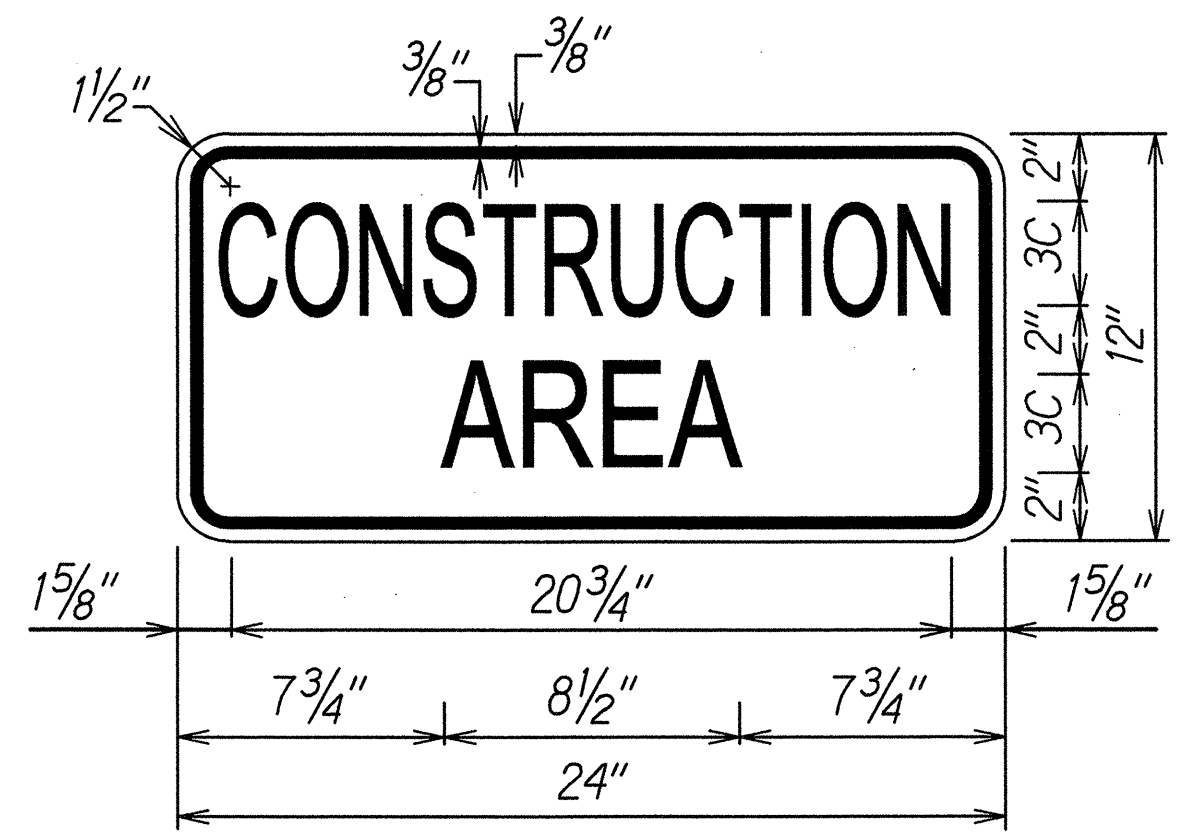
Work Zone Note:

1. 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 Standard Specifications.
2. 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(25) and R2-5b(25) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to the various contract items.
5. 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.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. 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 the various contract items.

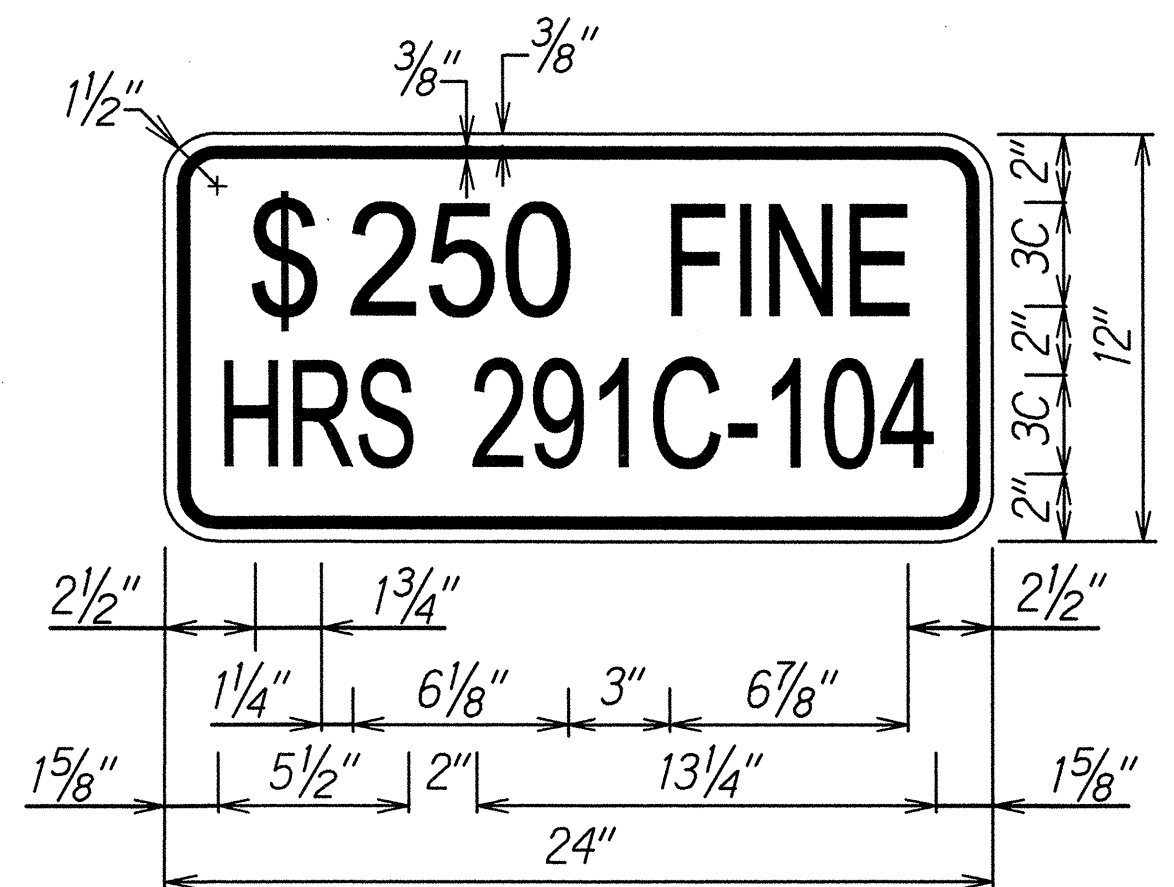
TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON MULTILANE DIVIDED LOW SPEED HIGHWAY



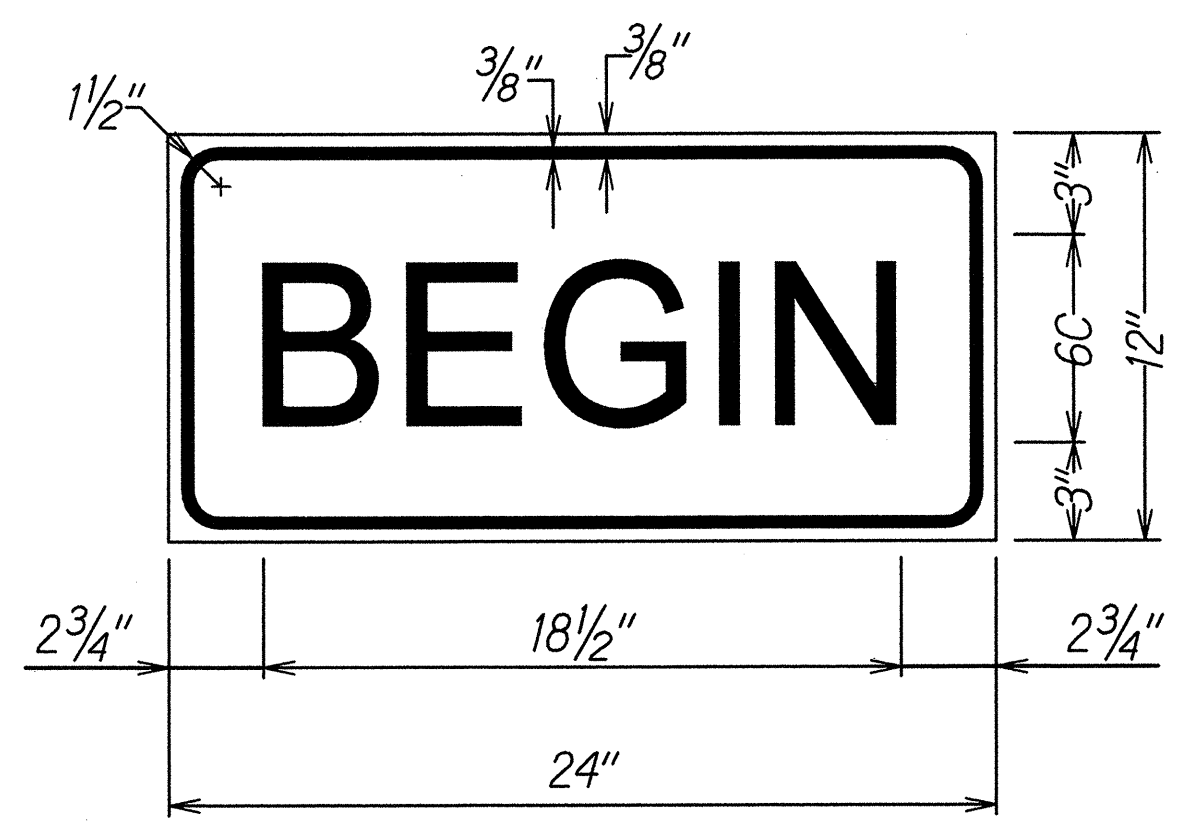
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BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
ORIGINAL PLAN	_____
TC-04 TCF-NOTES/LOG	10/21/2013 10:24:46 AM

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
LOW SPEED DIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES & DETAILS
 ALA WAI WATERSHED STORM WATER
 BEST MANAGEMENT PRACTICES ON OAHU
 Project No. H11-01-14M
 Scale: None
 Date: January 2014

SHEET No. TC-03 OF 5 SHEETS
 40