

TRAFFIC CONTROL NOTES

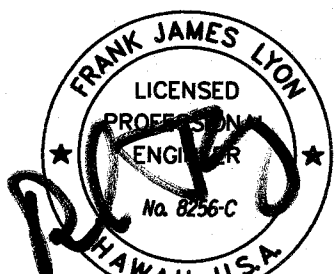
1. All Traffic Control Work shall be in accordance with the Contract or as directed by the Engineer. This work will not be paid for separately, but shall be considered incidental to the various contract items. Work required for lane closures during the working day will not be paid for separately, but shall be considered incidental to the various contract items. Advanced Construction Warning Signs as required by Section 645 of the Special Provisions shall be installed at the locations specified in the contract. This work shall be paid for under Contract Item No. 621.7100 - Construction Warning Sign with Two Posts. Any additional Advanced Construction Warning Signs needed in excess of the amount specified under Contract Item No. 621.7100 shall be considered incidental to the various contract items.
2. Any requests for adjustments in Traffic Control Plans shall be submitted in writing and approved by the Engineer. The Contractor's attention is directed to Subsection 108.08 - Failure to Complete on Time and Liquidated Damages of the Special Provisions.
3. Relocation and/or removal of traffic control signs; sign posts portable concrete or water-filled plastic barriers; barricades; and all appurtenances used for Shielding and/or Traffic Control shall be considered incidental to Traffic Control and the various Excavation and Utility Contract Items.
4. All traffic control signs, delineators, Contractor-furnished barriers, barricades, and all appurtenances used for the purposes of shielding and/or Traffic Control shall become the property of the Contractor at the completion of the project.
5. Portable concrete/water-filled plastic barriers and/or barricades not used during work and/or non-work hours shall not be stockpiled or otherwise stored within the highway rights-of-way except at locations approved by the Engineer.
6. The Contractor shall periodically wash down signs, delineators, portable concrete or water-filled plastic barriers and barricades called for in the contract as deemed necessary by the Engineer. This work shall be considered incidental to Traffic Control.
7. The location of temporary pavement markings, signs, delineators, portable concrete or water-filled plastic barriers, barricades, and all appurtenances used for the purpose of shielding and/or Traffic Control shall be as shown in the contract or as directed in the field by the Engineer.
8. Damage to traffic control signs, temporary pavement markings, delineators, barriers, barricades, sand barrels, and all appurtenances by the public shall be repaired or replaced by the Contractor as soon as possible or as directed by the Engineer. This work shall be paid for under Contract Item No. 645.0100 - Additional Police Officers and/or Additional Traffic Control Devices. Damages to the above caused due to the Contractor's actions shall be repaired or replaced at no cost to the State.

9. The Contractor shall make minor adjustments to shielding and/or Traffic Control which are in conformance with the MUTCD at intersections, driveways, bridges, structures, etc., to fit field conditions. This work shall be considered incidental to Traffic Control.
10. Where sight distance problems cause poor visibility of cones or delineators, the Contractor shall extend cone or delineator limits to a point where they are visible to approaching traffic. This work shall be considered incidental to Traffic Control.
11. 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. This work shall be considered incidental to Traffic Control.
12. 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 the work. This work shall be considered incidental to Traffic Control.
13. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
14. The Contractor shall install a flashing arrow as shown in the Contract or as directed in the field by the Engineer. Furnishing, installing, and removing the arrow board shall be done by the Contractor, and shall be considered incidental to Traffic control.
15. All traffic lanes during the project duration shall be a minimum of 10 feet wide.
16. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use. This work shall be considered incidental to Traffic Control.
17. 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). This work shall be considered incidental to Traffic Control.
18. 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. This work shall be considered incidental to Traffic Control.
19. Minimum sign spacings, taper lengths and spacing of cones or delineators shall be as shown in the contract or as directed in the field by the Engineer.
20. Install steady burn amber lamps onto Type II Barricades. Installing, maintaining and changing the batteries of the steady burn amber lamps shall be considered incidental to Traffic control.

TEMPORARY TRAFFIC CONTROL AND  
TEMPORARY TREATMENT AT EXCAVATION NOTES

1. The Contractor shall limit the work performed each day to allow the establishment of Temporary Traffic Control and/or Temporary Treatments at Excavations as shown in the plans, or as directed in the field by the Engineer. This work shall be considered incidental to Traffic Control.
2. When using steel plates, the Contractor shall install "Steel Plate Ahead", Construction Warning Signs (48" x 48") 250 feet in advance of said steel plates. This work shall be considered incidental to the applicable contract items.
3. Furnishing, installing, removing and disposing of, and providing smooth transitioning surfaces to steel plates shall be the responsibility of the Contractor. This work shall be considered incidental to the applicable contract items.
4. When using barriers and inertial barrier systems, the Contractor shall furnish and install portable concrete/water-filled plastic barriers as shown in the contract, or as directed in the field by the Engineer. This work shall be considered incidental to the applicable contract items.
5. Portable concrete/water-filled plastic barriers and inertial barrier systems shall comply with HDOT, MUTCD, and Manufacturer Standards and Specifications.
6. Install steady burn amber lamps on portable concrete/water-filled plastic barriers at 20' o.c. Installing, maintaining and changing the batteries of the steady burn amber lamps shall be considered incidental to the Barriers.
7. Temporary Pavement for Temporary Treatment at Excavations will not be paid for separately, but shall be considered incidental to Traffic Control

FED. ROAD DIST. NO.	STATE	HIGHWAY PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-02-06	2010	5	16



Exp. 4/30/10

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OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TRAFFIC CONTROL NOTES

MAUNALO A HIGHWAY

Slope Stabilization at Milepost 13

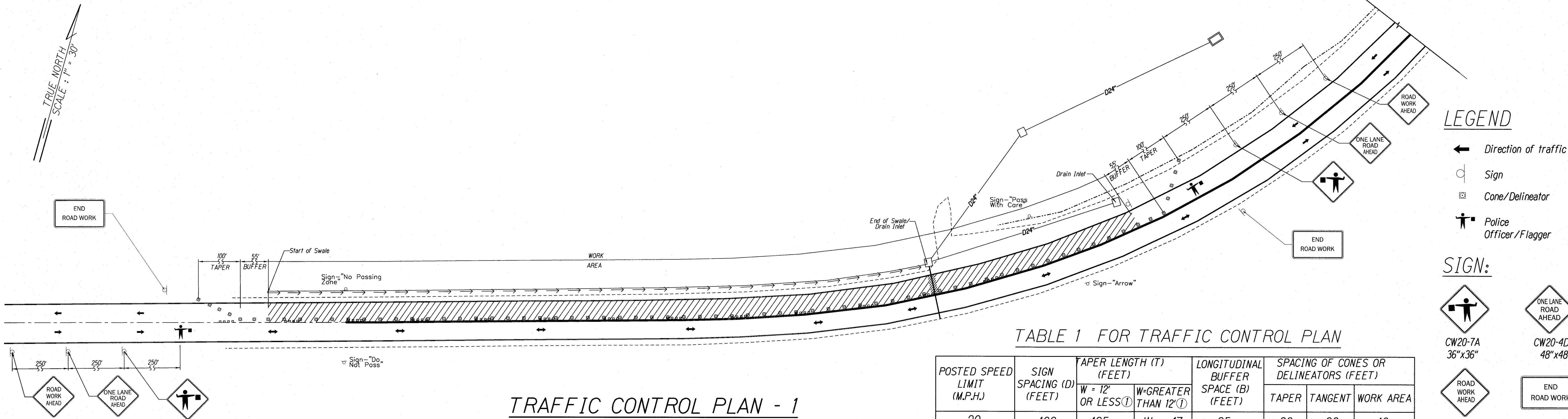
Highway Project No. 460A-02-06

Scale: AS NOTED

Date: JAN 2010

SHEET No. 5 OF 16 SHEETS

FED. ROAD DIST. NO.	STATE	HIGHWAY PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-02-06	2010	6	16



TRAFFIC CONTROL PLAN - 1  
SCALE 1" = 30'

TABLE 1 FOR TRAFFIC CONTROL PLAN

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	100	125	W x 17	35	20	20	10
25	100	125	W x 17	55	25	25	10
30	200	180	W x 17	85	30	30	10
35	250	245	W x 17	120	35	35	10
40	250	320	W x 17	170	40	40	10
45	350	540	W x 17	220	45	45	10
50	500	600	W x 17	280	50	50	10
55	500	660	W x 17	335	55	55	10

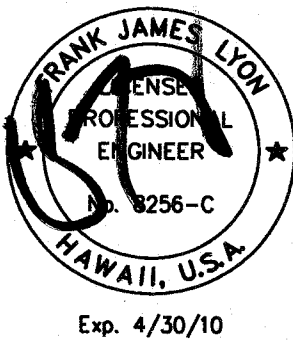
① W=WIDTH OF LANE, SHOULDER OR OFFSET.

NOTES:  
During non-working hours, the trenches on streets shall be covered with non-skid steel plates and all lanes maintained open for traffic. Temporary steel plates for vehicular traffic shall be flush with, have an acceptably smooth transition with adjoining pavement or sidewalk.

Wherever the work area interferes with the pedestrian traffic, the Contractor shall re-route pedestrian traffic within coned-off lane and provide 4' minimum clearance for pedestrian access.

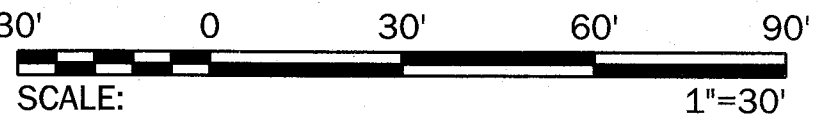
Minimum sign spacings, taper lengths and spacing of cones or delineators shall be as shown in the contract or as directed in the field by the Engineer.

See Sheet 5 for General Notes for Traffic Control Plan.



Exp. 4/30/10  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

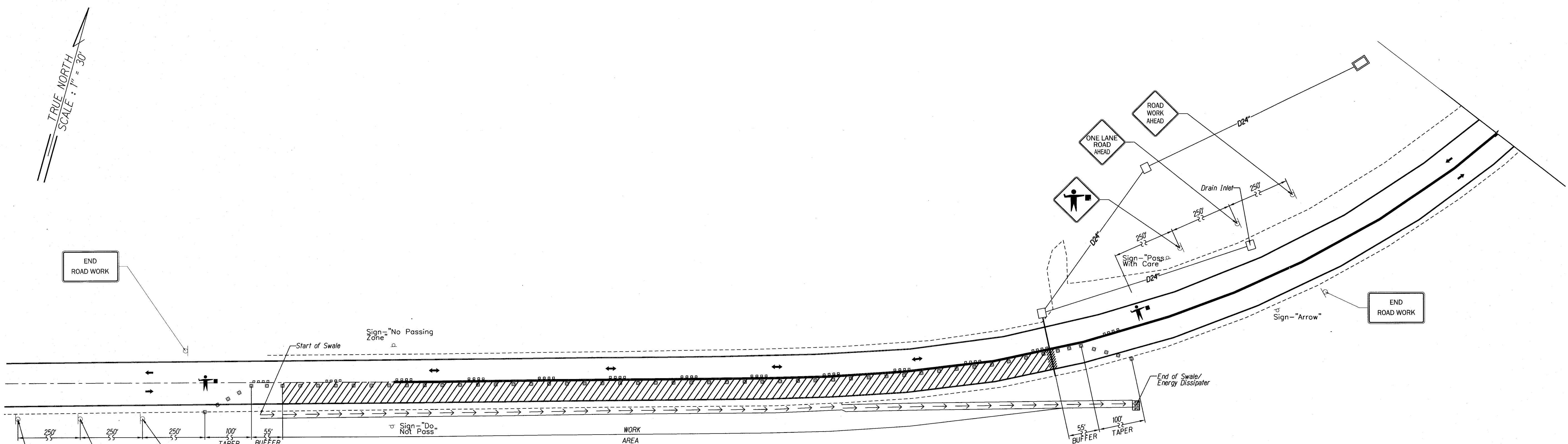
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
**TRAFFIC CONTROL PLAN - 1**  
  
MAUNALO A HIGHWAY  
Slope Stabilization at Milepost 13  
Highway Project No. 460A-02-06  
Scale: AS NOTED      Date: JAN 2010  
SHEET No. 6 OF 16 SHEETS



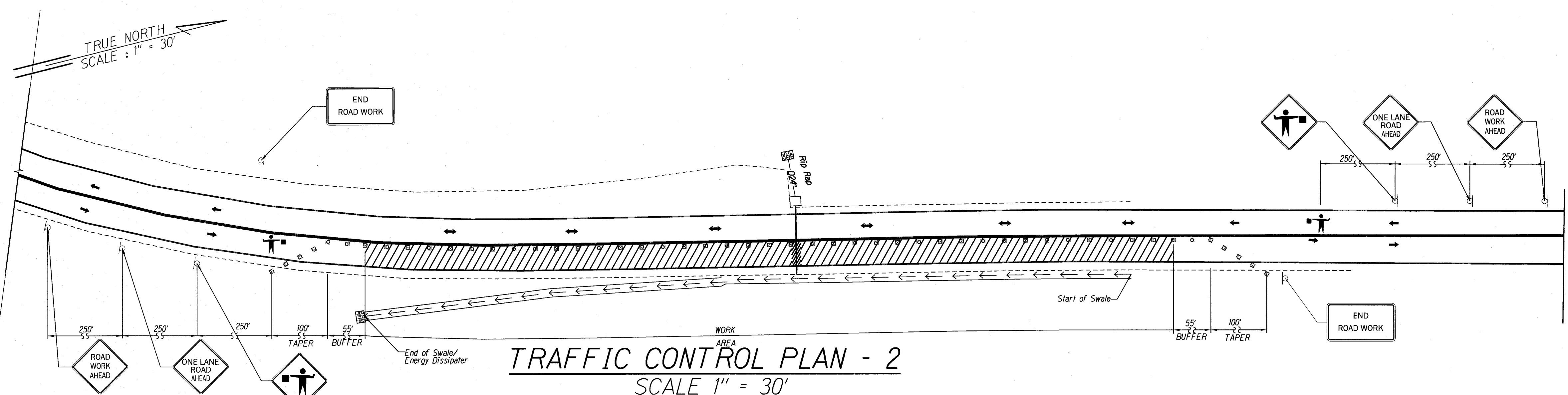
DATE	2-19-10
REVISION	



FED. ROAD DIST. NO.	STATE	HIGHWAY PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-02-06	2010	7	16



TRAFFIC CONTROL PLAN - 2  
SCALE 1" = 30'



TRAFFIC CONTROL PLAN - 2  
SCALE 1" = 30'

LEGEND

- ← Direction of traffic
- Sign
- Cone/Delineator
- ⚠ Police Officer/Flagger

SIGN:

- CW20-7A 36"x36"
- CW20-4D 48"x48"
- CW21-4 48"x48"
- CG20-2A 48"x24"

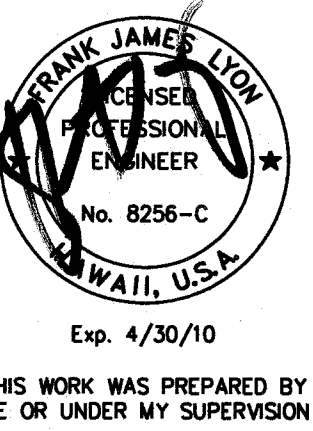
NOTES:

During non-working hours, the trenches on streets shall be covered with non-skid steel plates and all lanes maintained open for traffic. Temporary steel plates for vehicular traffic shall be flush with, have an acceptably smooth transition with adjoining pavement or sidewalk.

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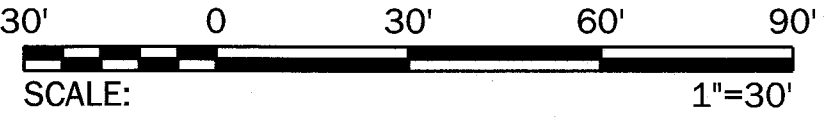
Minimum sign spacings, taper lengths and spacing of cones or delineators shall be as shown in the contract or as directed in the field by the Engineer.

- See Sheet 5 for General Notes for Traffic Control Plan.
- See Table 1 on Sheet 6 for Traffic Control Plan.



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
DATE	

2-19-10	Revised Sheet Reference Numbers
DATE	REVISION



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - 2

MAUNALOA HIGHWAY  
Slope Stabilization at Milepost 13  
Highway Project No. 460A-02-06

Scale: AS NOTED      Date: JAN 2010