4 each Type J Raised Pavement Markers Type D Raised Pavement Markers @ 40'-0" o.c. 8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion) 4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)) 4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Exrusion)) 4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)) 4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion) Lane Change Restriction Marking 4 each Type A Raised Pavement Markers -Type C Raised Pavement Markers @ 20'-0" o.c. 4" White Stripe (Tape, Type I or Thermoplastic Extrusion) 4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion) 4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays) Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion) Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion) Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion) Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion) Pavement Arrow (Tape, Type III or Thermoplastic Extrusion) Pavement Word (Tape, Type III or Thermoplastic STOP Extrusion) 4 Each Type J Raised Pavement Markers Type D Raised Pavement Markers @ 40'-0" o.c. Type H Raised Pavement Markers (Reflective Surface facing no-passing direction) 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion) Extension of Edge Line, 4" Wide x 2'-0" Long White 10' 10' 10' 10' Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

4 each Type A Raised Pavement Markers

Type C Raised Pavement Markers @ 40'-0" o.c.

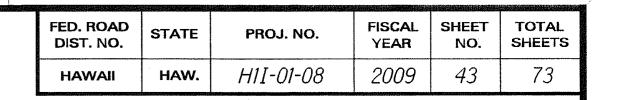
LEGEND

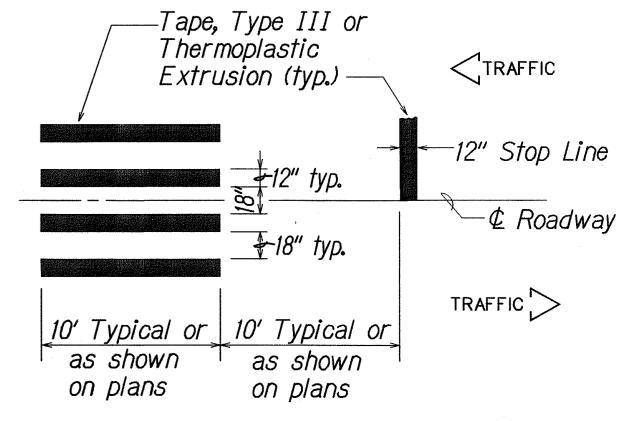
SURVEY PLOTTI
DRAWN BY M.
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL
PLAN
NOTE BOOK
#42.may
| Jahlfleg

NOTES

- 1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- 3. Raised pavement markers shall not be installed within crosswalks.
- 4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- 6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- 7. All pavement striping shall be as noted on the legend or plans.
- 8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- 9. All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.



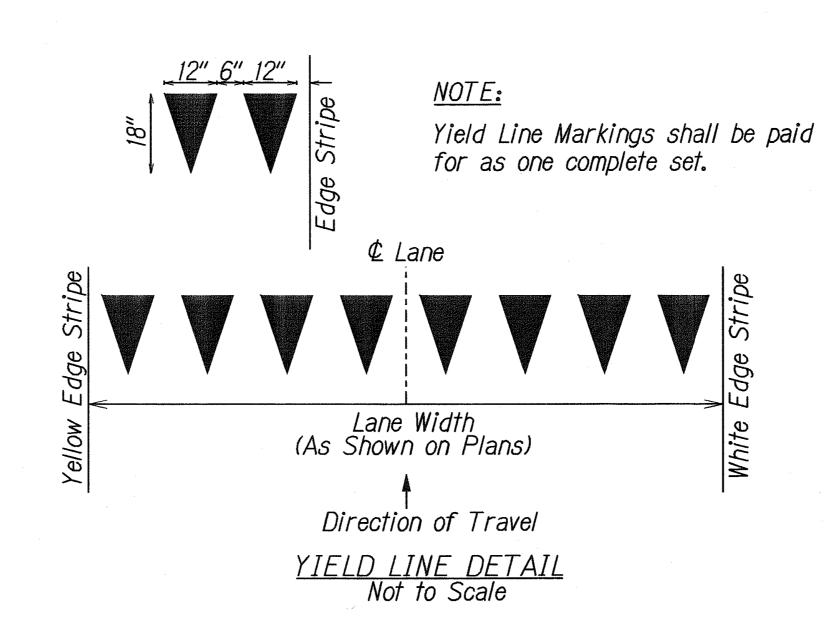


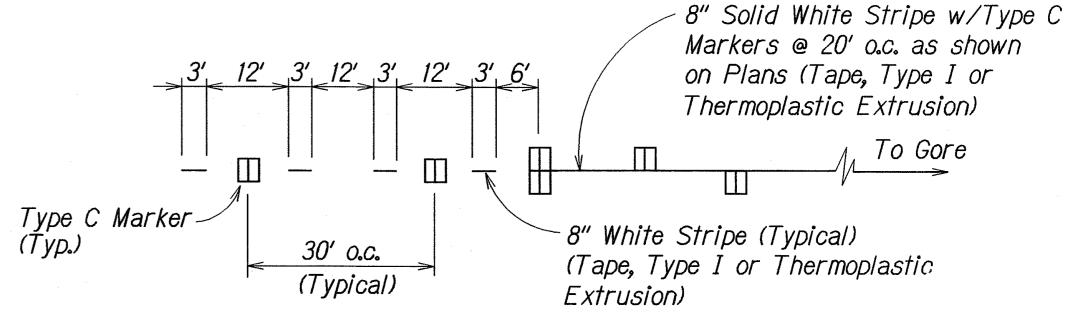
Not to Scale
CROSSWALK STRIPING DETAIL



Reflector Marker (RM-2, White) w/ steel post

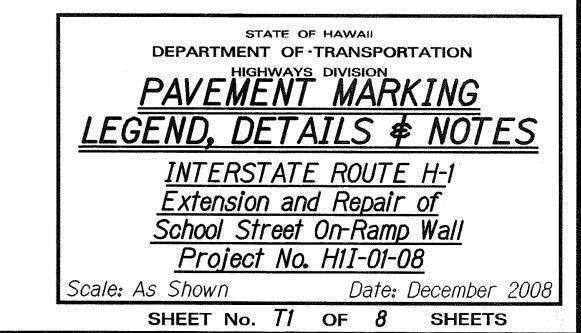
| FW Reflector Marker (RM-2, White) w/ flexible post

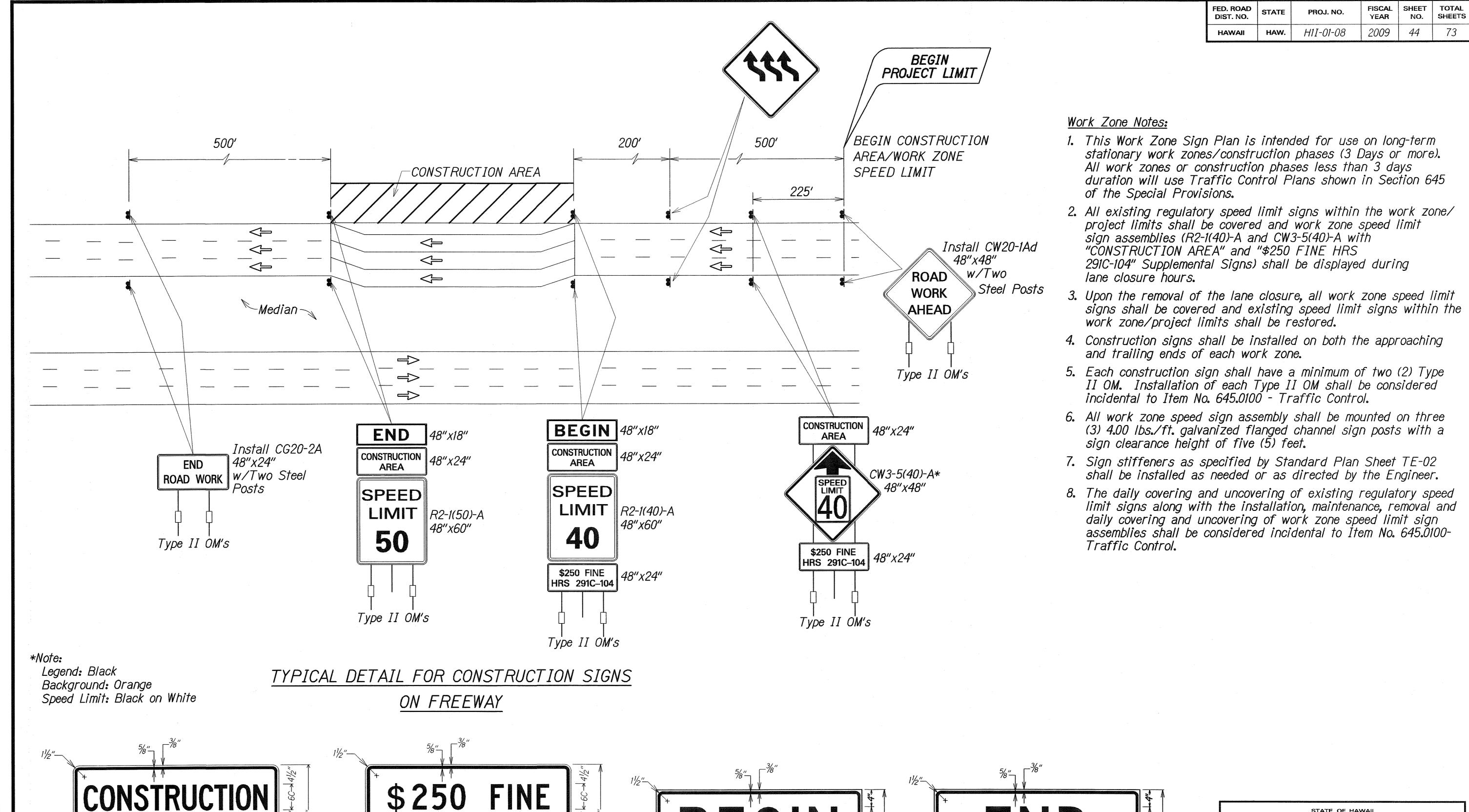


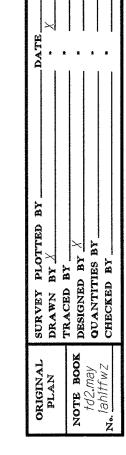


LANE DROP MARKING

Not to Scale





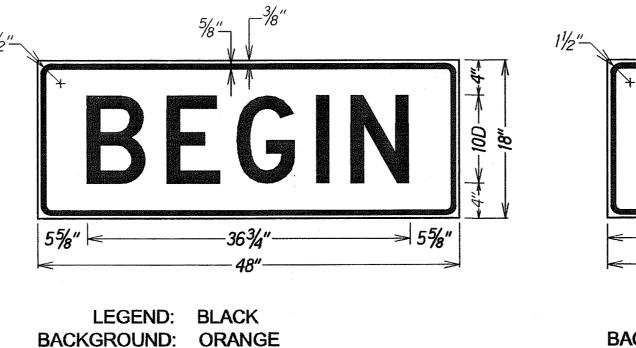


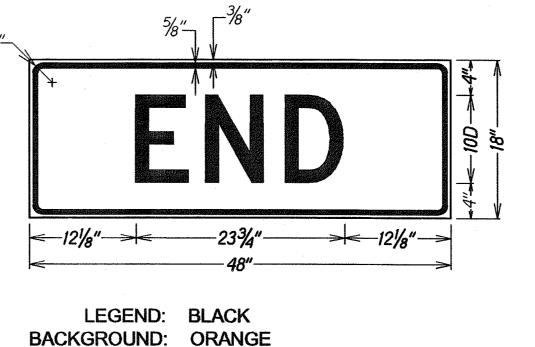
AREA

LEGEND: BLACK

BACKGROUND: ORANGE







DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
FREEWAY WORK ZONE SIGNING

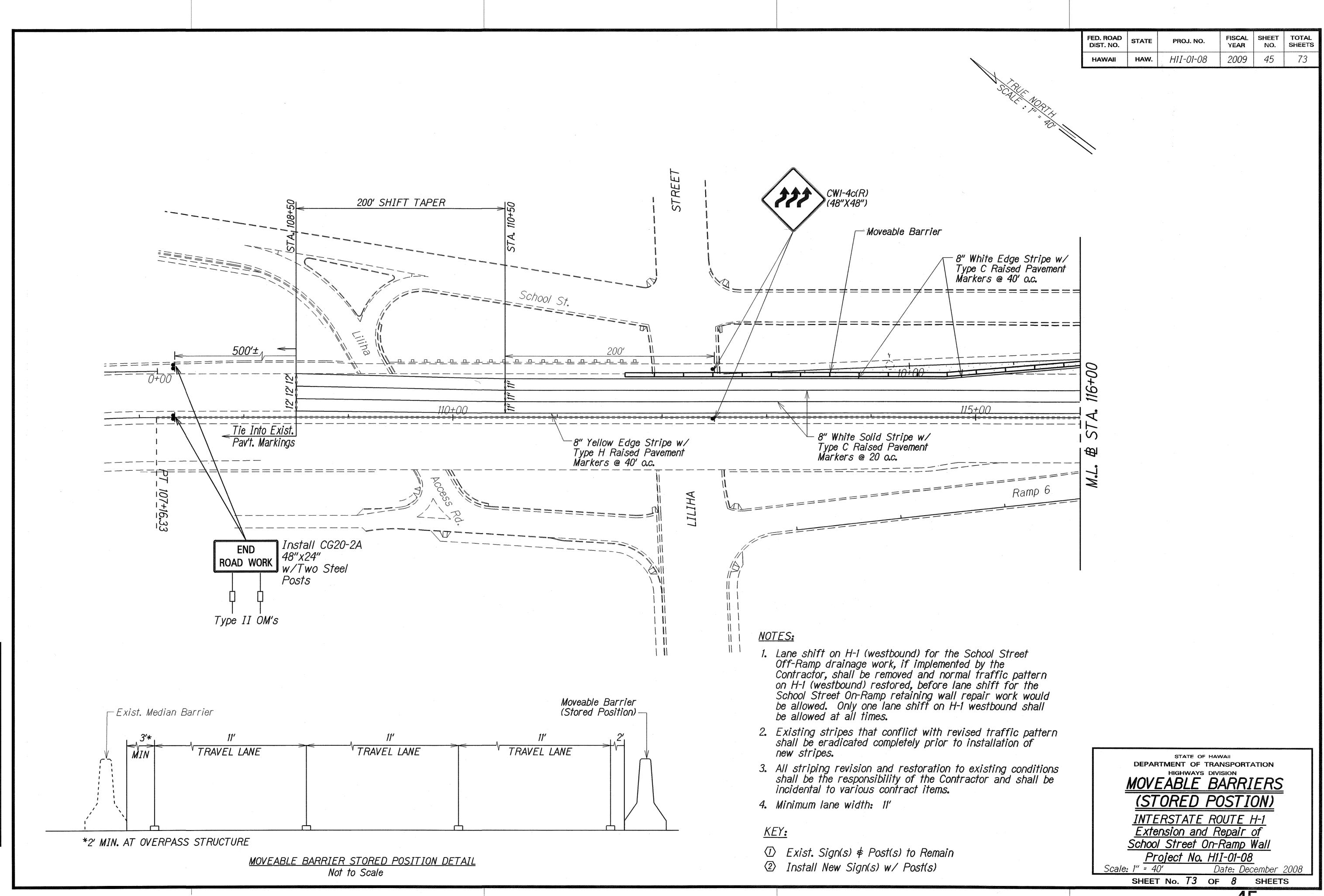
PLAN, NOTES DETAILS

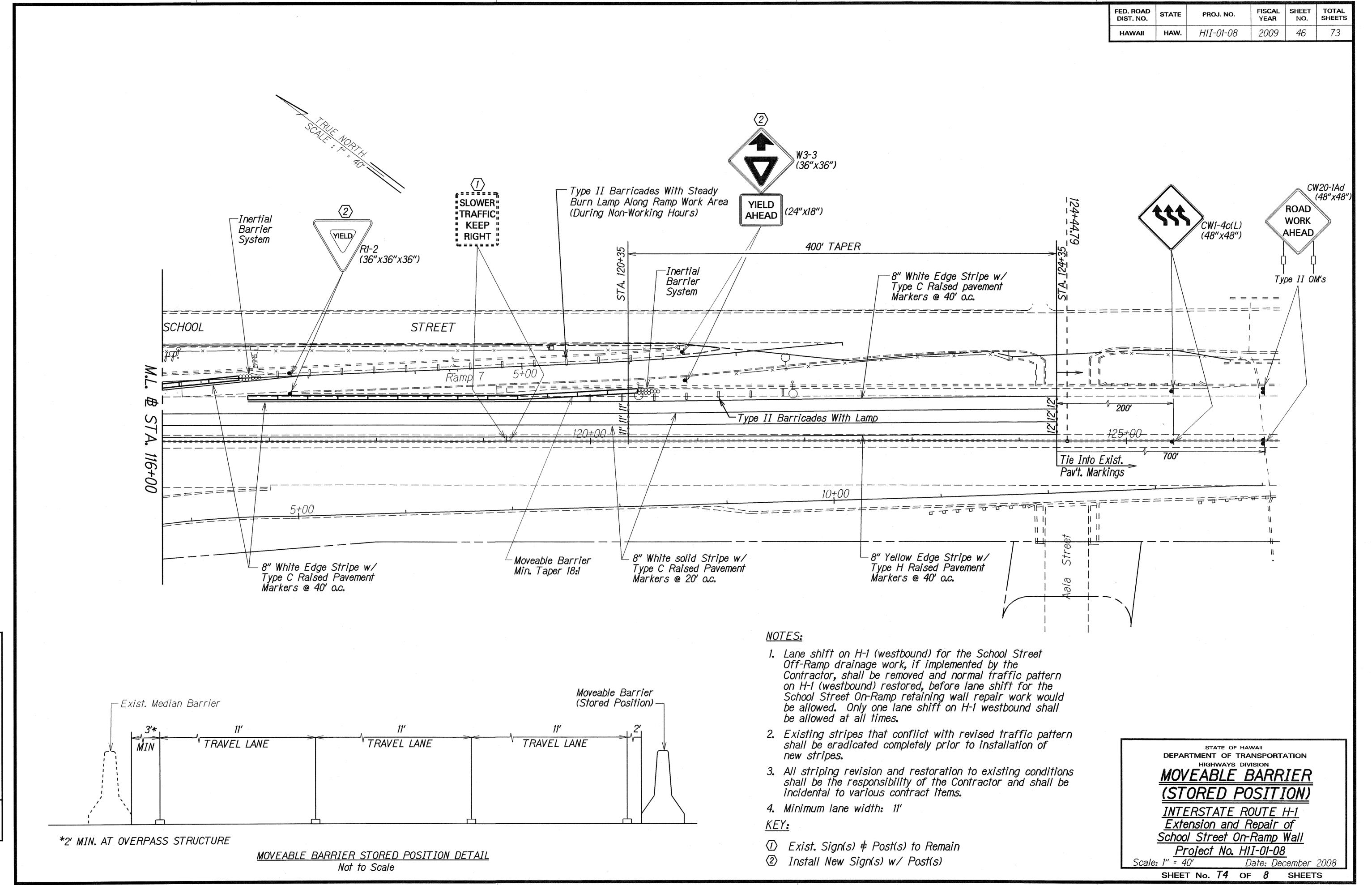
INTERSTATE ROUTE H-1
Extension and Repair of
School Street On-Ramp Wall
Project No. H11-01-08

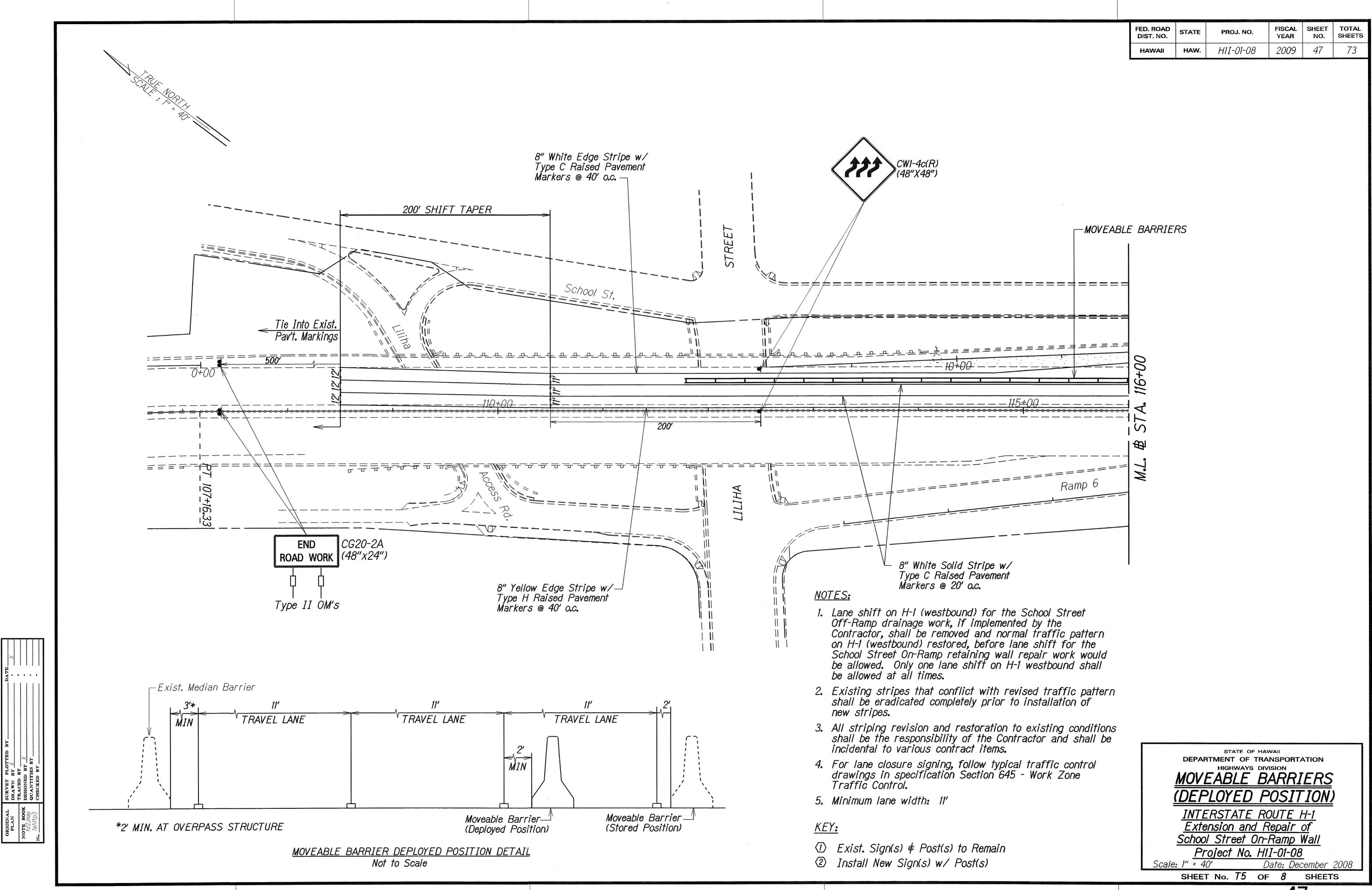
Not To Scale

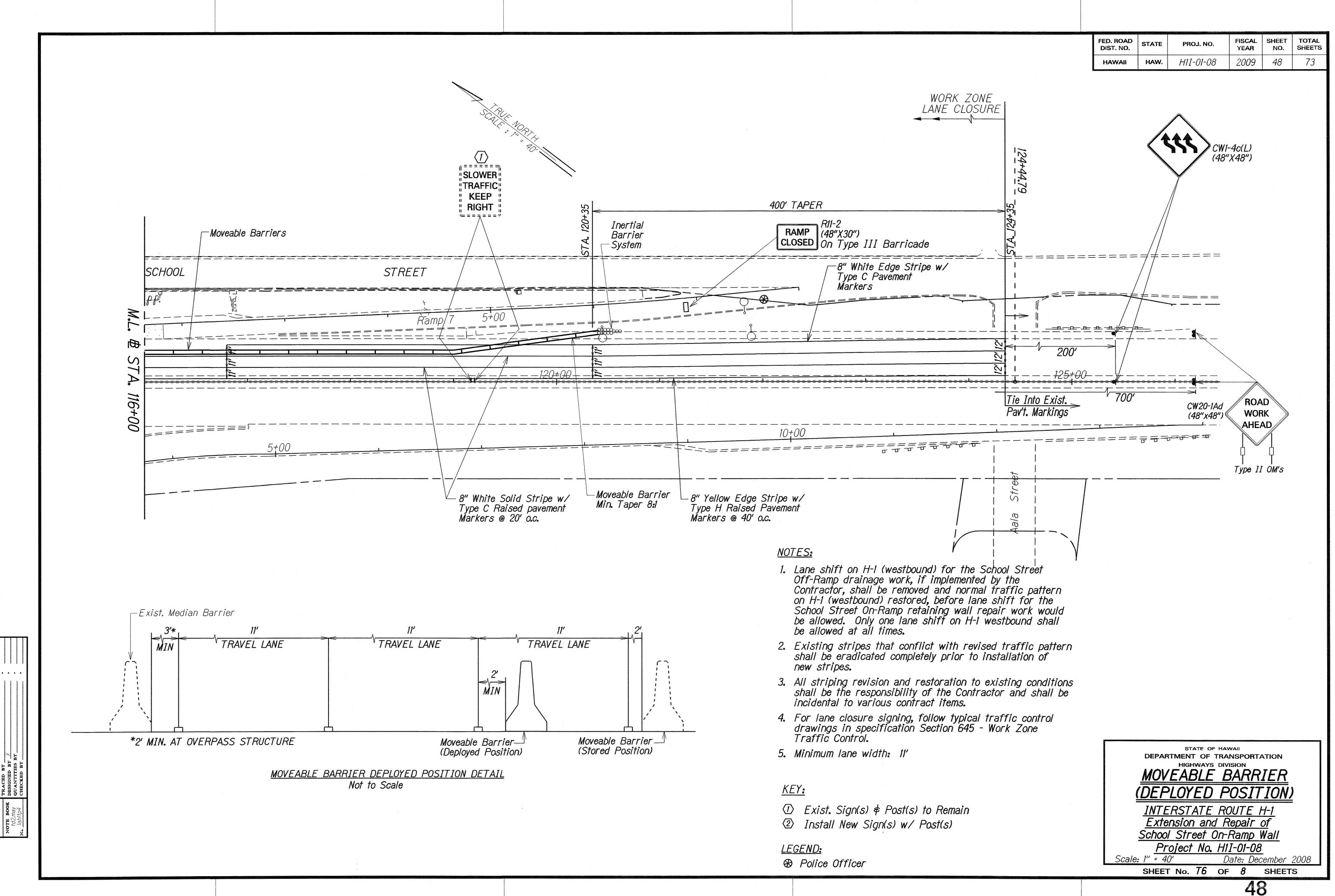
Date: December 2008

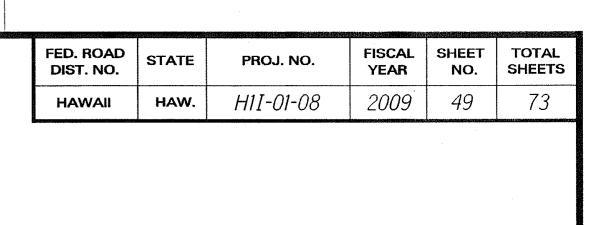
SHEET No. 72 OF 8 SHEETS

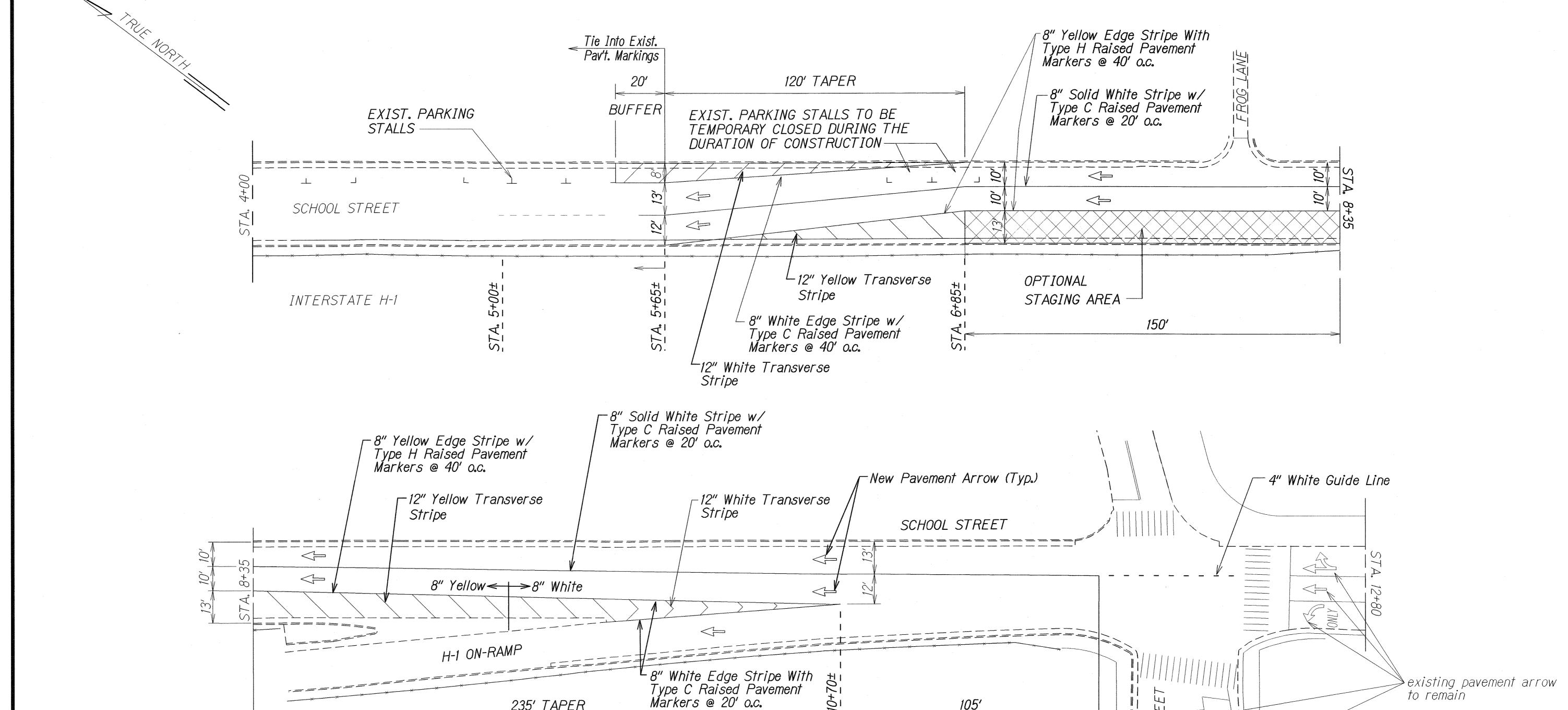


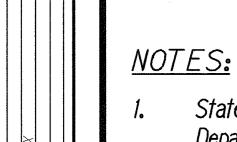












SURVEY PLOT
DRAWN BY_
TRACED BY_
DESIGNED BY
QUANTITIES I

State Department of Transportation has contacted City and County of Honolulu,

Department of Transportation Services to use a section of School Street for staging area. The Contractor shall obtain a permit from the City and County at their own cost before staging any equipment on School Street. The Contractor shall clean up School Street and the areas designated for staging area at the end of each day work. The Contractor shall restripe and restore the striping to existing condition and repair any damaged pavement at no cost to the State and City and County after completion of work.

Contractor must obtain a permit from the City before occupying School Street.

- Existing stripes shall be eradicated completely prior to installation of new striping.
- Contractor shall restore parking stalls and final striping with City Striping Detail Standards.

INTERSTATE H-1

235' TAPER

- All striping revisions and restoration to existing conditions shall be the responsibility of the Contractor and shall be incidental to Various Contract Items.
- Equipment or materials stored in the staging area shall be properly enclosed with barricades equipped with amber flashers.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ST

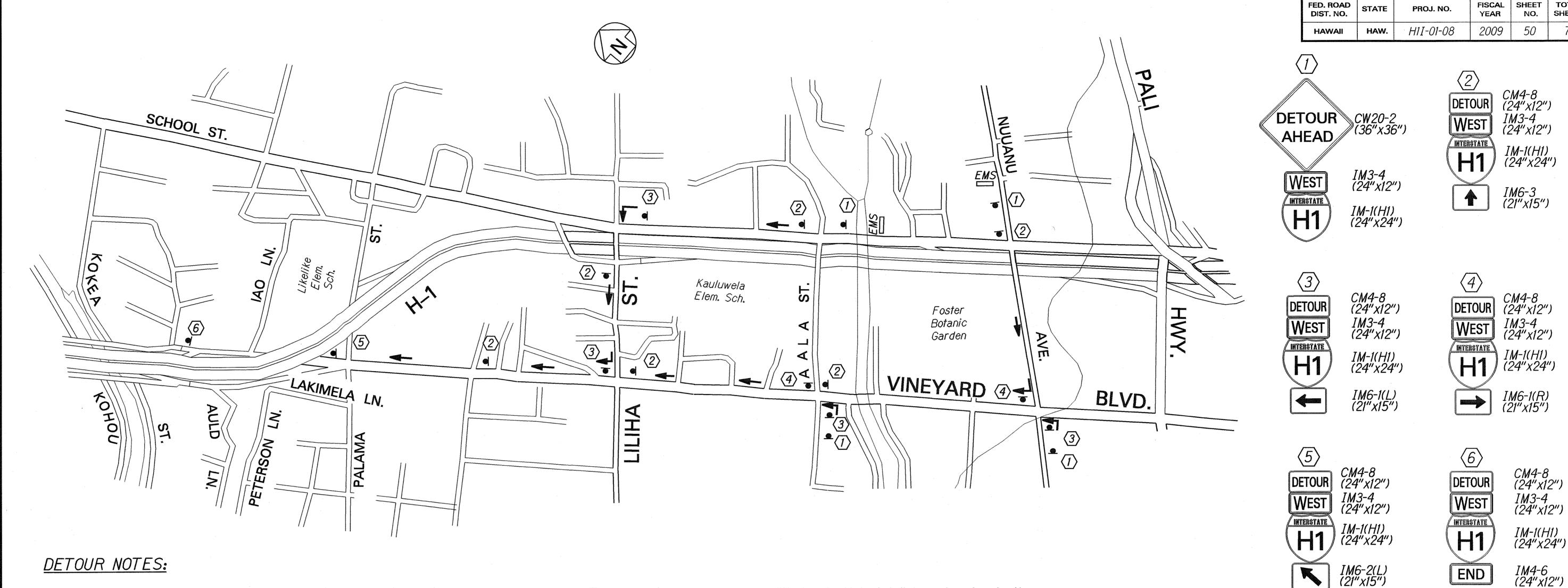
OPTIONAL STAGING AREA

INTERSTATE ROUTE H-1 Extension and Repair of School Street On-Ramp Wall

Project No. H1I-01-08

Scale: 1" = 20' Date: December 2008

SHEET No. 77 OF 8 SHEETS



- Cones or delineators shall be installed at 10' o.c. max. in work area. 2. Cones or delineators shall be installed at 20' o.c. max. along tapers and tangents.
- 3. Minimum width of traffic lane through work area: 11' (H-1 & Ramp) 10' (City Street)
- 4. Relocation and/or removal of temporary signs and posts used for Traffic Control shall be considered incidental to various contract items.
- 5. Damage to signs, temporary pavement markers, delineators, barricades and lamps caused 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 Item No. 645.0200 - Police Officers and/ or Additional Traffic Control Devices. Damage caused by the Contractor's negligence shall be repaired or replaced at the Contractor's expense.
- 6. All signs within the City and County right-of-way shall be installed on existing street light posts or temporary non-marring sign supports.
 This work shall be considered incidental to various contract items.
- 7. The Type II and Type III Barricades with lamps used during construction shall be considered incidental to various contract items.
- 8. Work required in the Detour/Traffic Control Plans will be paid under applicable contract items or otherwise specified herein. All other traffic control work shall be in accordance with Section 645 - Work Zone Traffic Control. Work required for lane closures during the working day will not be paid for but shall be considered incidental to various contract items. Advance Construction Warning Signs as required under Section 645 of the Special Provisions shall be installed on all approaches to construction areas. This work shall be considered incidental to various contract items.
- 9. The Flashing Arrow Signal used during construction shall be considered incidental to various contract items.

- 10. The Contractor shall publish "Notice to Motorists" 1 week prior to the start of construction. Public notice shall be coordinated with the Department of Trasportation, Highways Divison.
- 11. The Contractor shall notify Lowell Tom (848-4578) at Oahu Transit Authority (The Bus) 4 weeks prior to start of construction.

NOTES:

- 1. Markers prefixed with "IM" shall have a white legend on a blue background except the Interstate shield which shall be a red, white and blue design.
- 2. Markers prefixed with "C" shall have a black legend on orange background.
- 3. Contractor to provide up to 2 changeable message boards per each road/ ramp closure as part of the traffic control lump sum item. Message boards shall be set up one week prior to any road/ramp closure at the location specified by the Resident Engineer. Message boards will not be paid for separately, but shall be considered incidental to Contract Item No. 645.0100 -Traffic Control.
- 4. In addition to the detour signs shown on this plan, Contractor shall install appropriate traffic controls for each road/ramp closure. All traffic control work will not be paid for separately, but shall be considered incidental to Contract Item No. 645.0100 - Traffic Control.
- 5. Contractor shall furnish a minimum of one (1) uniformed police officer with vehicle equipped with blue strobe light at each roadway approach to the road/ ramp closure area. The furnishing of a police officer with vehicle will not be paid for separately, but shall be considered incidental to Contract Item No. 645.0100 - Traffic Control.
- 6. All signs shown within the City right-of-way shall be installed on existing street light posts or temporary non-marring sign supports. This work shall be considered incidental to various contract items.

LEGEND:

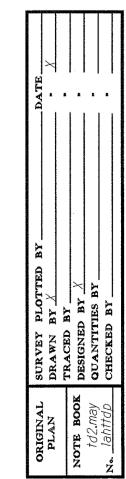
- Temporary Construction Sign w/Post
- Electronic Message Sign
- Road Closure Area
- Direction of Travel



Extension and Repair of School Street On-Ramp Wall Project No. H1I-01-08

Scale: As Shown Date: December 2008

SHEET No. 78 OF 8 SHEETS



50

SHEETS