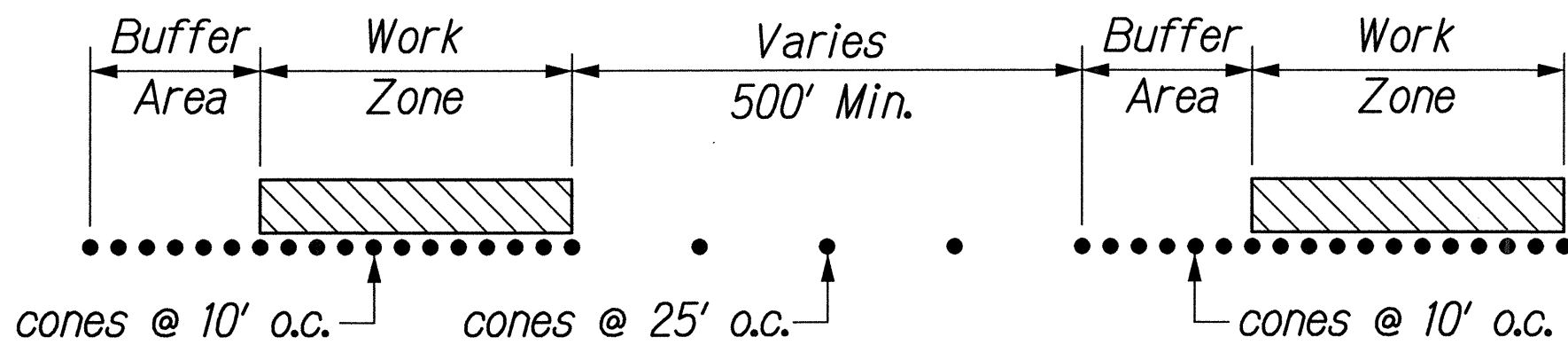


GENERAL NOTES FOR TRAFFIC CONTROL PLAN

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-093-1(22) | 2013 | 156 | 230 |

- 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 for activities to complete work not covered by the Traffic Control Plans. 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.
- 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 107.11 - Safety; Accident Prevention 645-Work Zone Traffic Control.
- The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
- Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- 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.
- Flaggers and/or police officers shall be in sight of each other or in direct communications at all times.
- Sign spacings (L), taper lengths (T), and spacings of cones or delineators shall be as shown in Table 645-1 of Section 645 in the Specifications, unless otherwise noted on HDOT's Traffic Control Plans.
- All traffic lanes shall be minimum of 11 feet wide.
- All signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- 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).
- 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.
- 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.
- 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.

- 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.
- 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.
- Signs for night work shall be retroreflective and shall be mounted with a Type B high intensity flasher.
- Steel plates for covering trenches shall have a skid resistant surface. The skid resistant surface shall be maintained throughout its use. Steel plates shall be installed in such a manner as to minimize movement from its intended location and minimize noise when traffic crosses over it (i.e., steel plates shall not generate any noise impact). Payment for steel plates shall be considered incidental to the various contract items.
- The Contractor shall limit the extent of trench and excavation work for pavement reconstruction to an area that can be satisfactorily backfilled in one work day.
- 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.
- 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 25' o.c. See typical detail below.



TYPICAL CONE SPACING FOR INTERMITTENT
WORK ZONE
Not to Scale

- The Contractor is responsible for providing all sign supports and/or posts for construction warning signs.
- Prior to shifting the traffic lanes into the existing median shoulder, the Contractor shall complete the resurfacing over the entire shoulder width where the existing AC paving does not extend across the entire width of the existing 4-foot shoulder.

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| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

T: /DOT - Farrington Hwy/CADD/Sheets/Traffic Control/tc-notes.dgn

GERALD D. ANDRDE

LICENSED PROFESSIONAL ENGINEER

No. 10377-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature

04/30/14

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC CONTROL

NOTES AND LEGEND

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS

AT NANAKULI AVENUE AND HALEAKALA AVENUE

Federal-Aid Project No. STP-093-1(22)

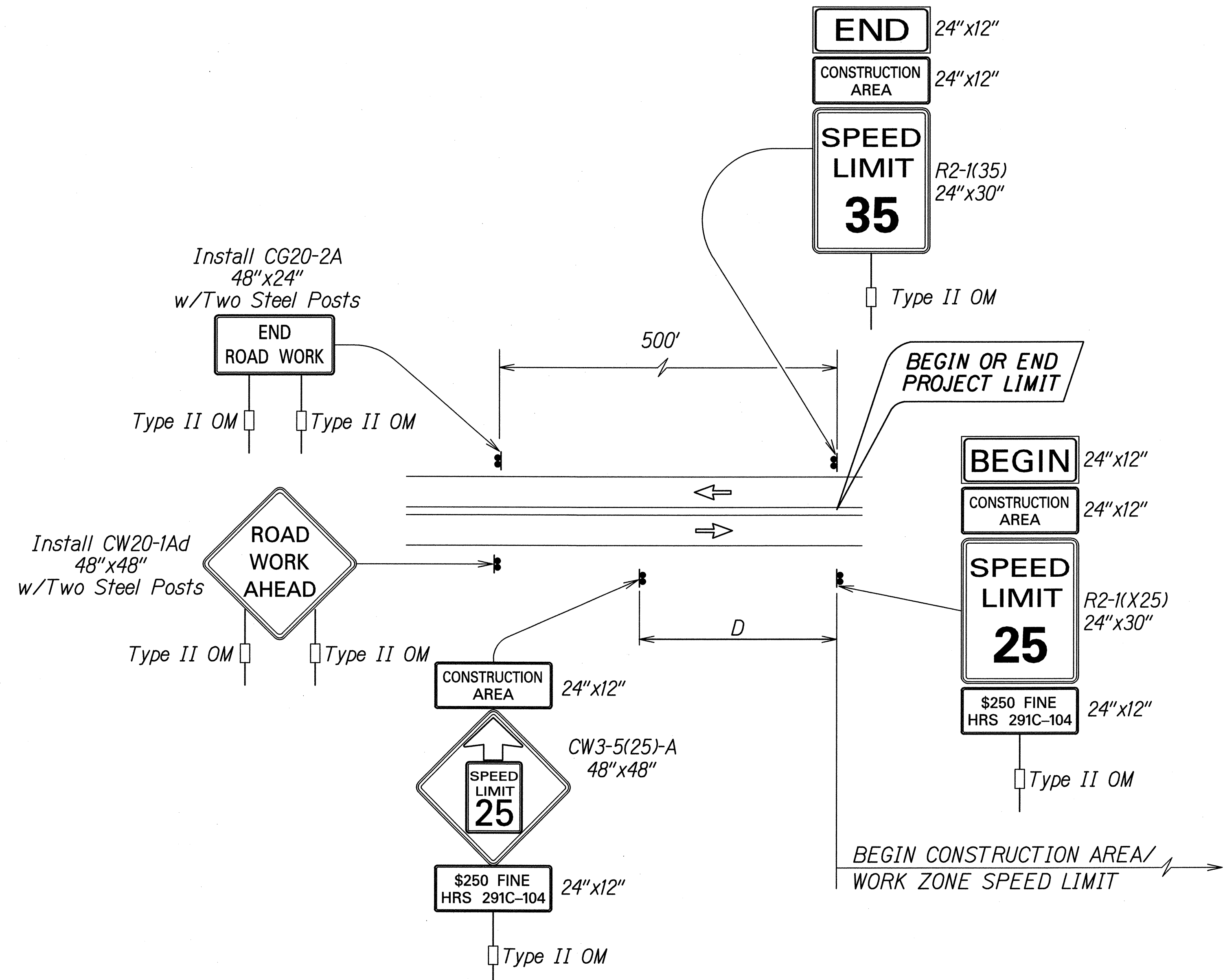
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Date: April 2013

SHEET No. TC-1 OF 13 SHEETS

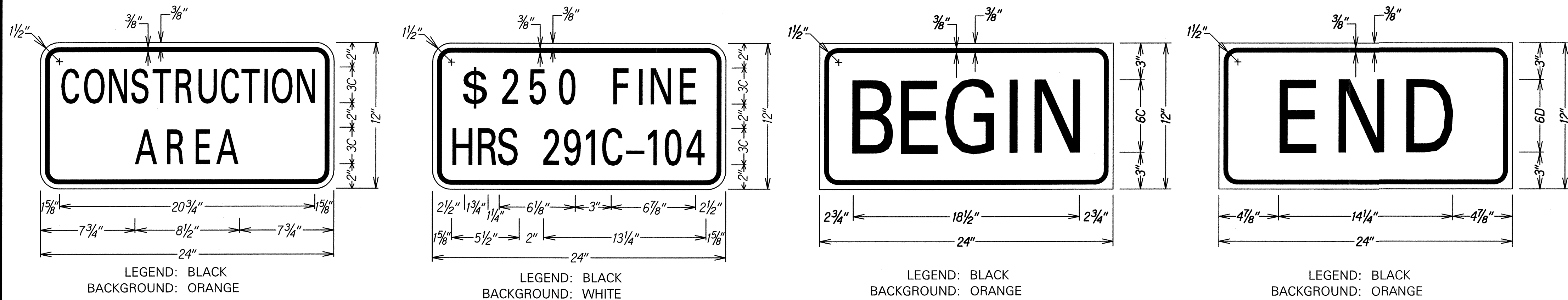
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-093-1(22) | 2013 | 157 | 230 |



- 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 Special Provisions.
 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(XX) and R2-5b(XX) 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 Item No. 621.7100, Construction Sign with Posts.
 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 Item No. 621.7100, Construction Sign with Posts.

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



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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

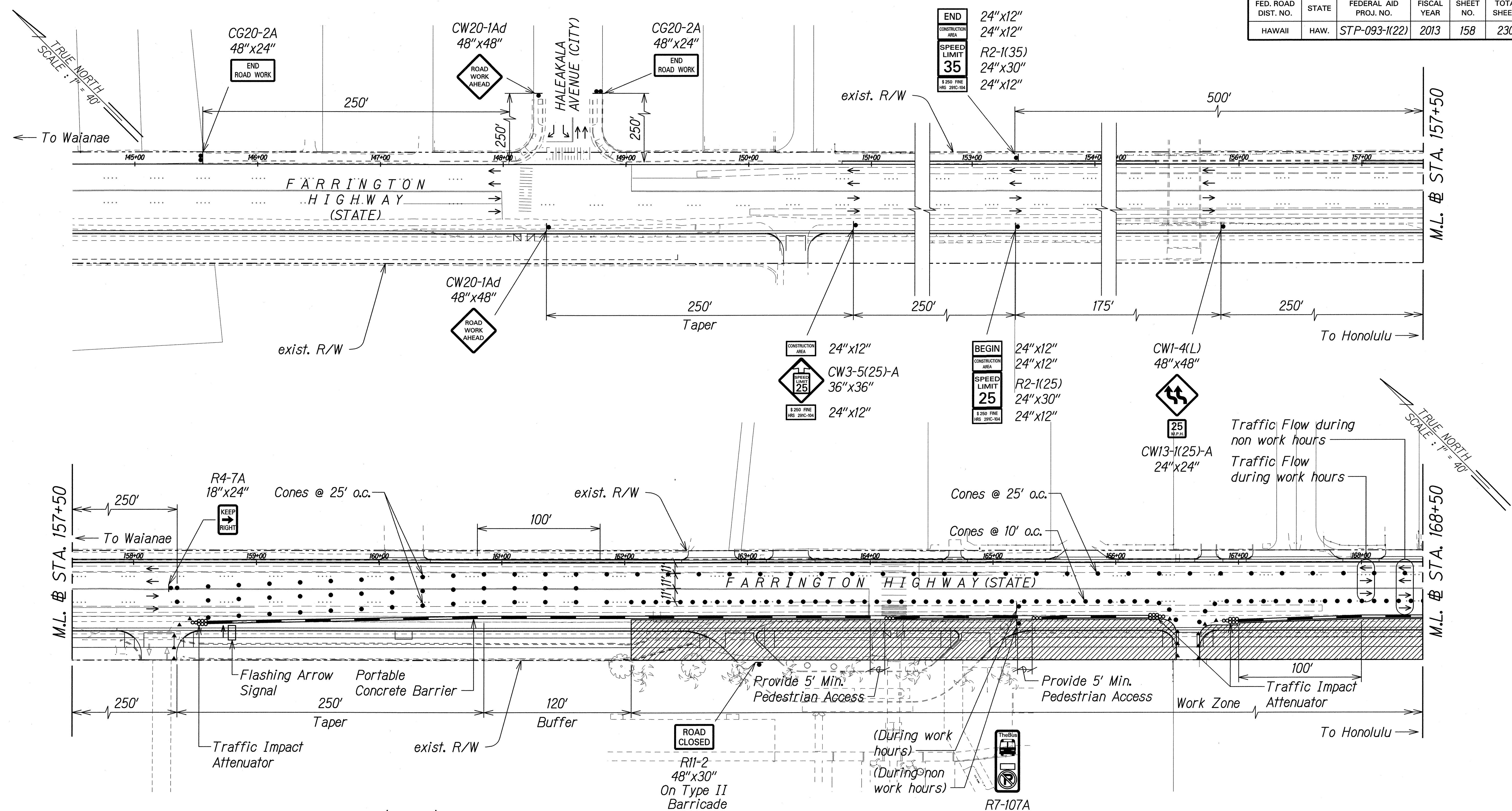
**LOW SPEED UNDIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES&DETAILS**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=NTS Date: April 2013

SHEET No. TC-2 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | STP-093-K(22) | 2013 | 158 | 230 |

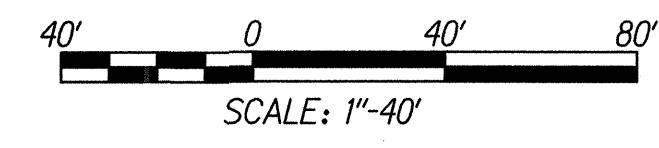


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| DATE | _____ |
| SURVEY PLOTTED BY | _____ |
| DRAWN BY | _____ |
| CHECKED BY | _____ |
| ORIGINAL PLAN | _____ |
| NOTE BOOK | _____ |
| CHECKED BY | _____ |

NOTE:

1. Work hours will be from 8:30 a.m. to 3:00 p.m., Monday through Friday.
2. Temporary bus stop location are to be moved every day, Monday through Friday, as noted on the plan, during working and non-working hours of the day.

- Legend:**
- • • • Cones used during work hours (to be removed during non-working hours)
 - ▲ ▲ ▲ Cones used during work and non-working hours
 - Direction of Traffic
 - Sign
 - Work Area
 - Traffic Impact Attenuator
 - Portable Concrete Barrier With RM-3 Reflector Marker
 - Flashing Arrow Signal



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Signature: *Gerald D. Andrie* 04/30/14
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
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HIGHWAYS DIVISION

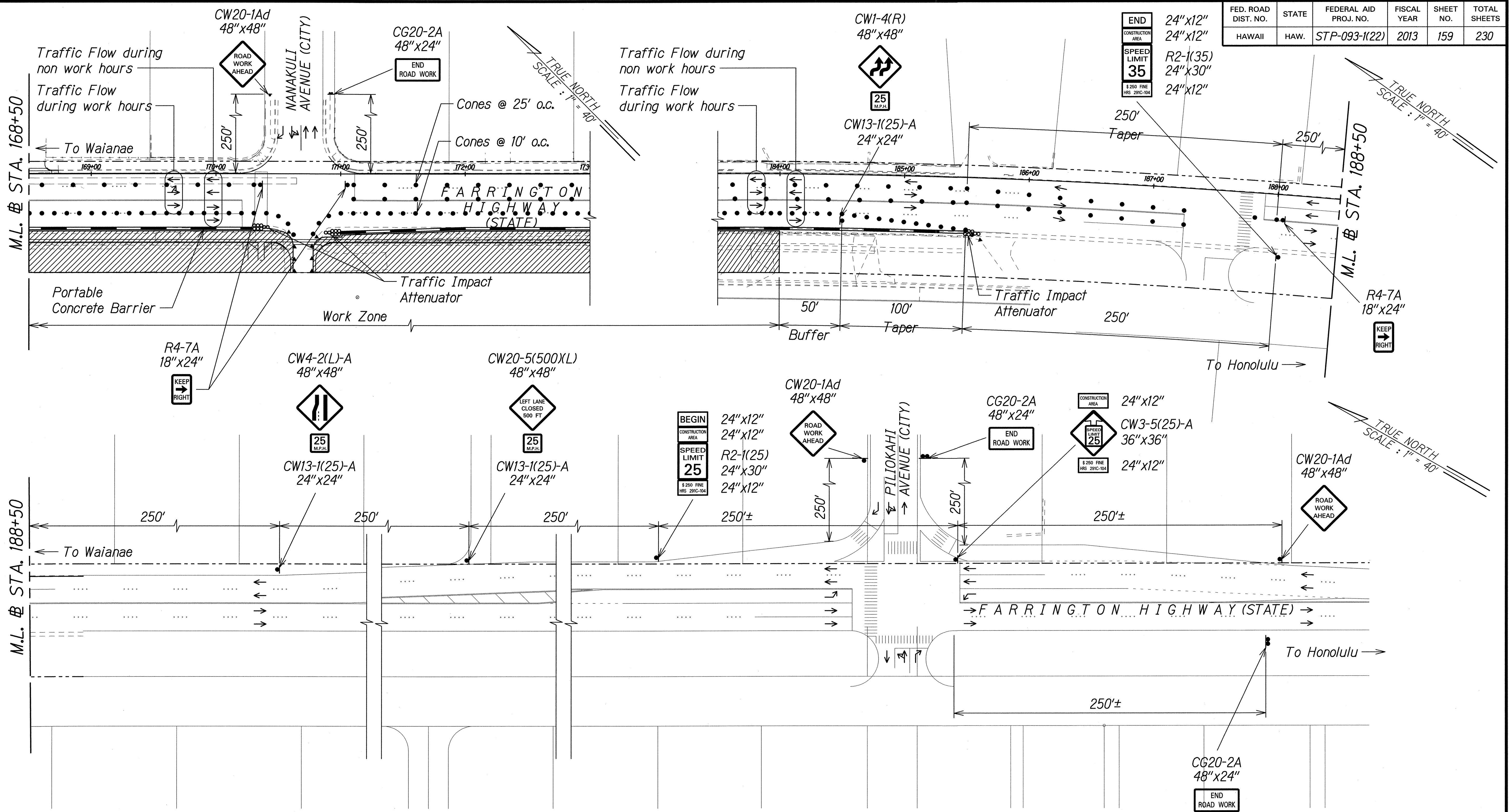
**TRAFFIC CONTROL PLAN
PHASE 1A**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-K(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-3 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-093-1(22) | 2013 | 159 | 230 |

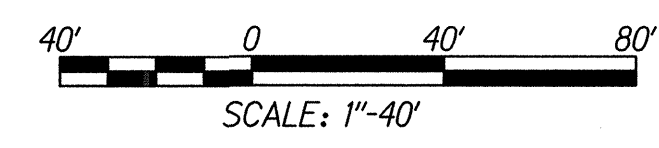


Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ ▲ Cones used during work and non-working hours
- Direction of Traffic
- Sign
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- Traffic Impact Attenuator
- Portable Concrete Barrier With RM-3 Reflector Marker
- Flashing Arrow Signal

NOTE:

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Gerald D. Andrade
SIGNATURE

04/30/14
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

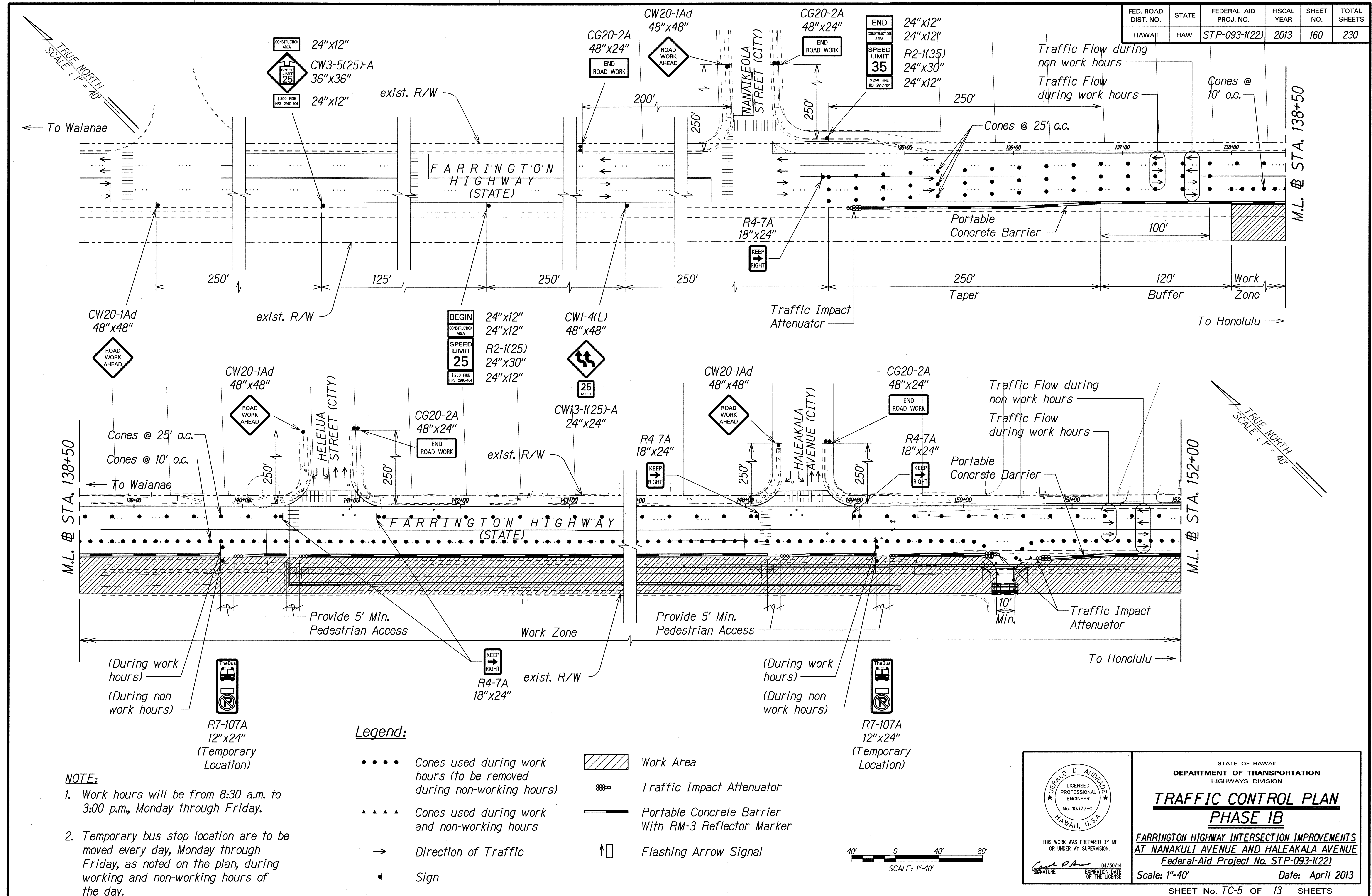
**TRAFFIC CONTROL PLAN
PHASE 1A**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-4 OF 13 SHEETS

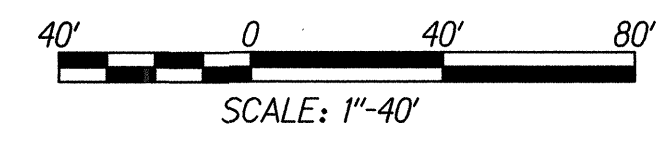
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-093-1(22) | 2013 | 160 | 230 |



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- Legend:**
- • • • Cones used during work hours (to be removed during non-working hours)
 - ▲ ▲ ▲ Cones used during work and non-working hours
 - Direction of Traffic
 - Sign
 - Work Area
 - Traffic Impact Attenuator
 - Portable Concrete Barrier With RM-3 Reflector Marker
 - Flashing Arrow Signal



GERALD D. ANDRADE
LICENSED PROFESSIONAL ENGINEER
No. 10377-C
HAWAII, U.S.A.

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04/30/14
EXPIRATION DATE OF THE LICENSE

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

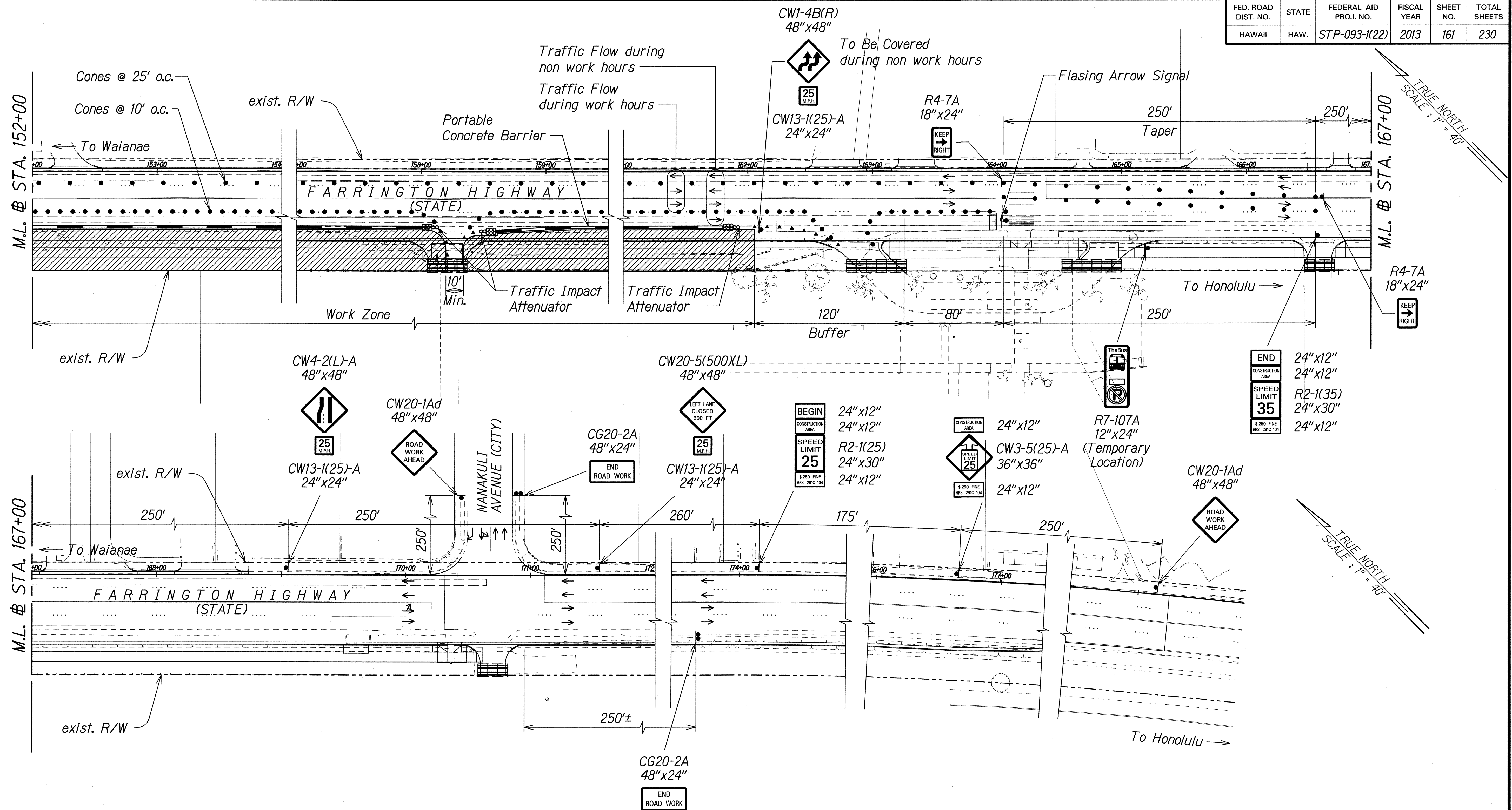
**TRAFFIC CONTROL PLAN
PHASE 1B**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-5 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | STP-093-1(22) | 2013 | 161 | 230 |

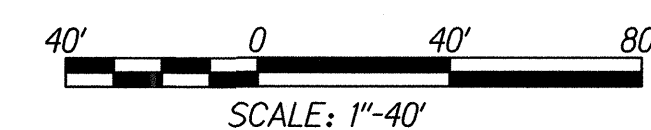


Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ Cones used during work and non-working hours
- Direction of Traffic
- Sign
- Work Area
- Traffic Impact Attenuator
- Portable Concrete Barrier With RM-3 Reflector Marker
- Flashing Arrow Signal

NOTE:

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No. 10377-C
HAWAII, U.S.A.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

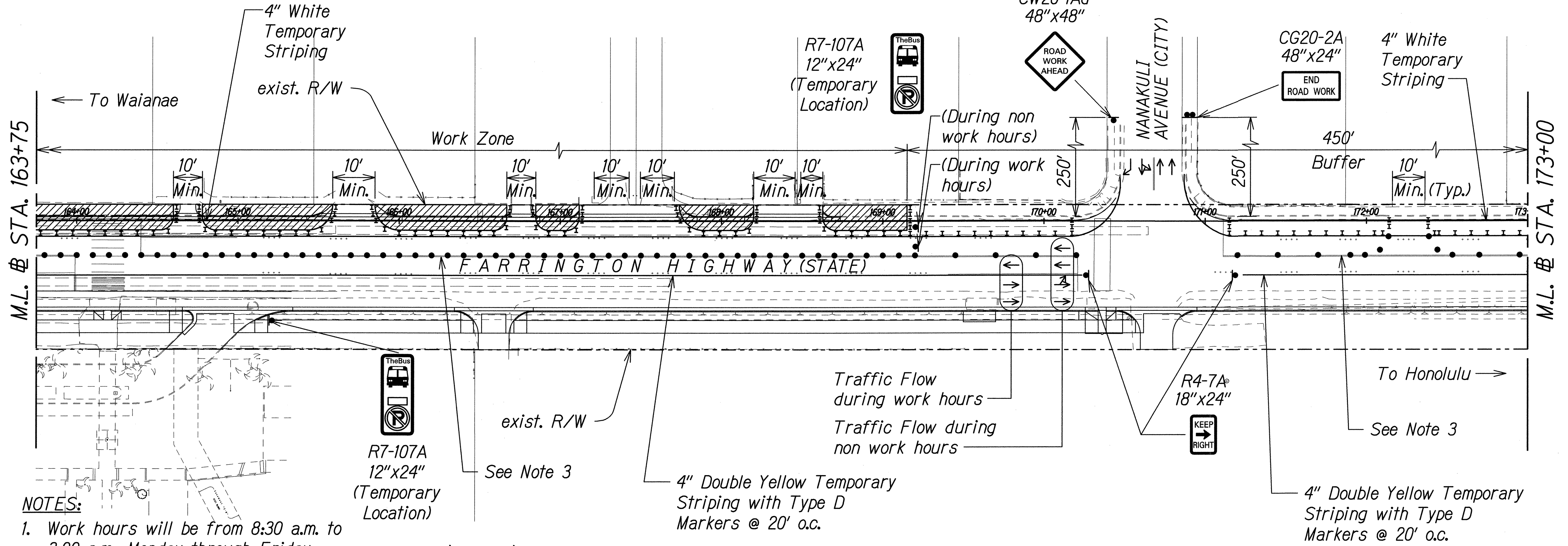
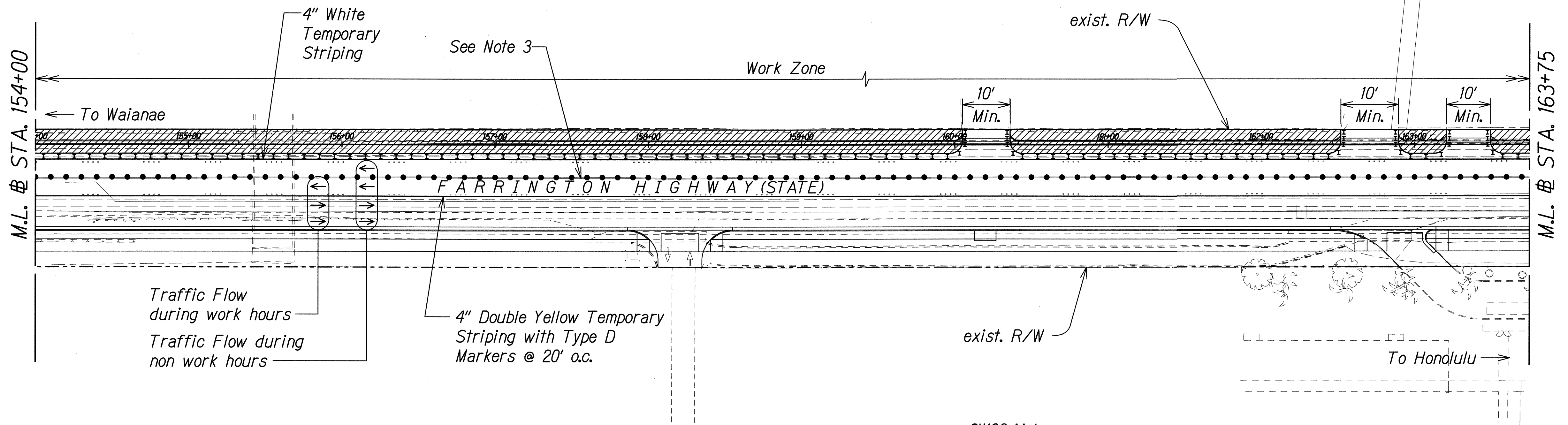
**TRAFFIC CONTROL PLAN
PHASE 1B**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-6 OF 13 SHEETS

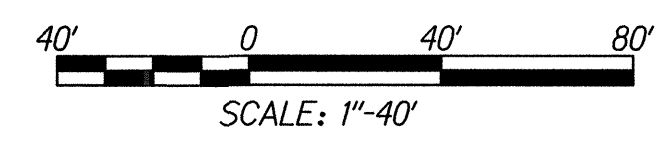
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| HAWAII | HAW. | STP-093-1(22) | 2013 | 163 | 230 |



- NOTES:**
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 2. Temporary bus stop location are to be moved every day, Monday through Friday, as noted on the plan, during working and non-working hours of the day.
 3. Temporarily eradicate existing double yellow striping. Replace with 10" long 4" white temporary striping @ 40" o.c. and type C markers @ 40' o.c.

Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ ▲ Cones used during work and non-working hours
- Direction of Traffic
- ⬇ Sign
- Work Area
- Traffic Impact Attenuator
- Portable Concrete Barrier With RM-3 Reflector Marker
- Flashing Arrow Signal
- Type II Barricade with steady burn amber lamps



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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE 2**

**FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE**

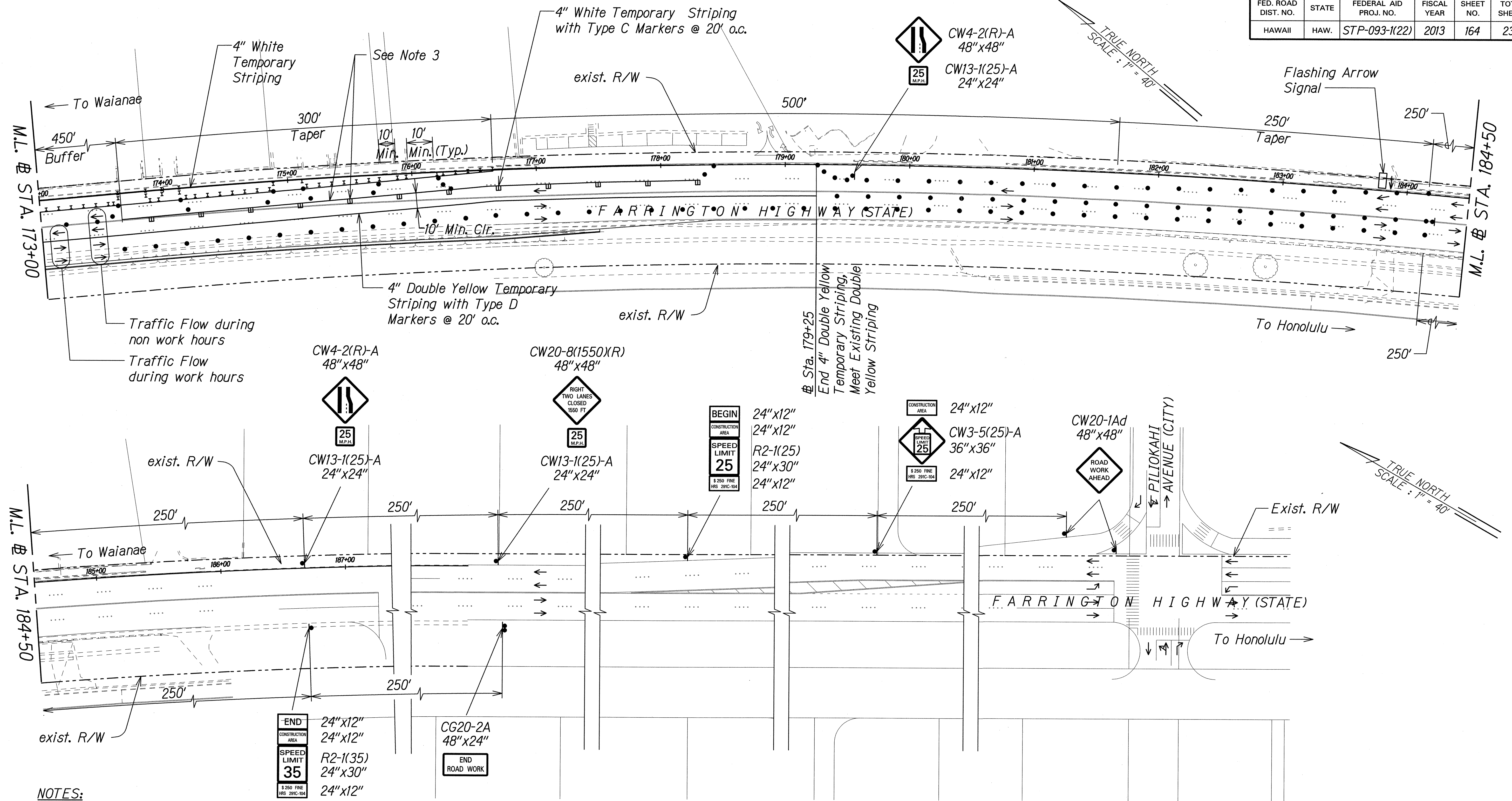
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-8 OF 13 SHEETS

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| | DESIGNED BY | |
| | QUANTITIES BY | |
| | CHECKED BY | |

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-093-1(22) | 2013 | 164 | 230 |



NOTES:

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- Temporarily eradicate existing double yellow striping. Replace with 10" long 4" white temporary striping @ 40" o.c. and type C markers @ 40' o.c.

Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ ▲ Cones used during work and non-working hours
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- Sign
- Work Area
- Traffic Impact Attenuator
- Portable Concrete Barrier With RM-3 Reflector Marker
- Flashing Arrow Signal
- Type II Barricade with steady burn amber lamps

40' 0 40' 80'
SCALE: 1"=40'

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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

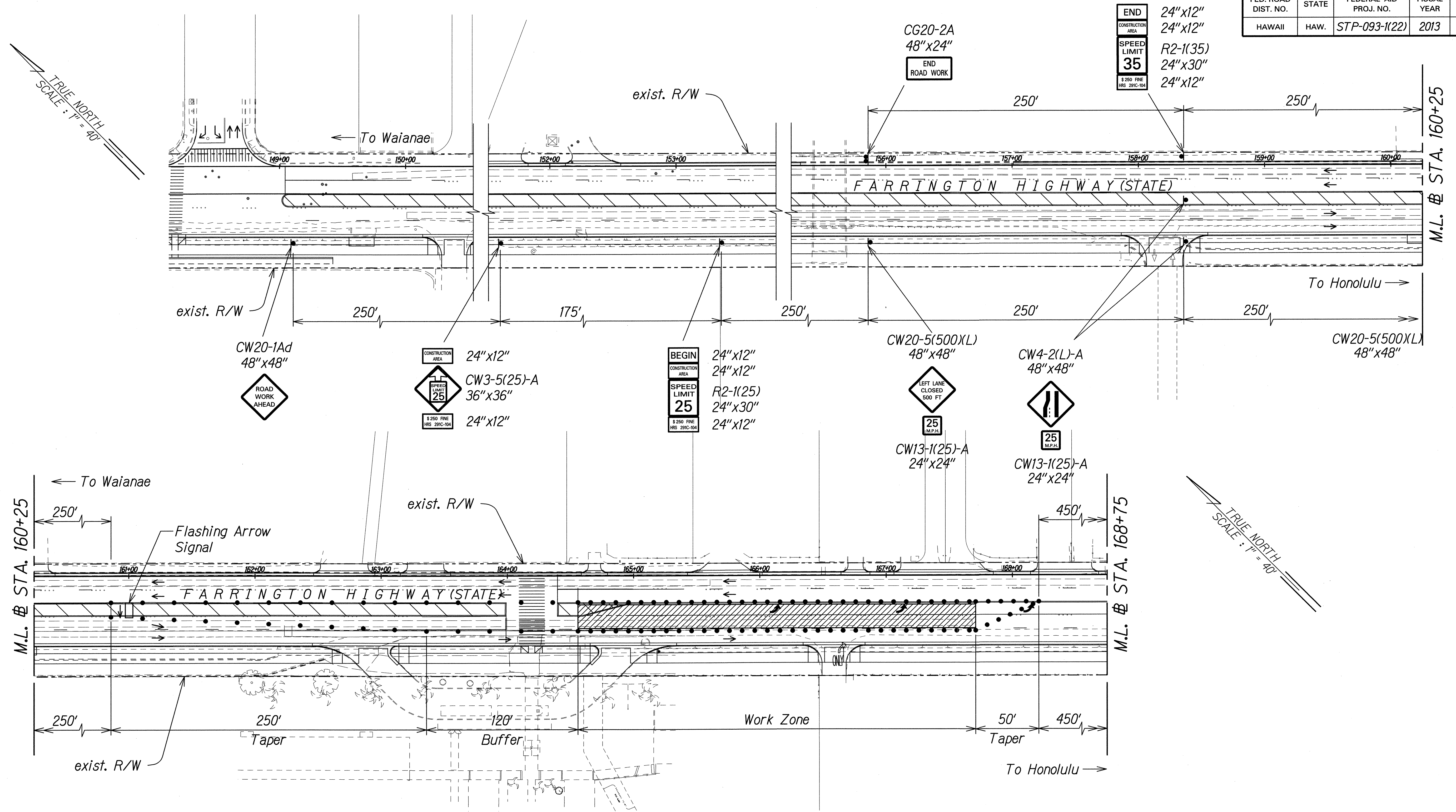
**TRAFFIC CONTROL PLAN
PHASE 2**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

SHEET No. TC-9 OF 13 SHEETS

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | STP-093-1(22) | 2013 | 165 | 230 |

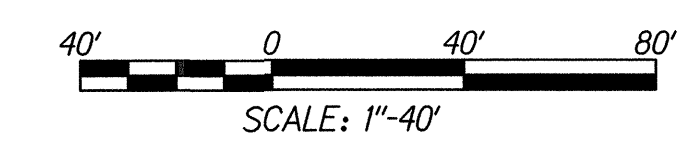


Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ ▲ Cones used during work and non-working hours
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| DATE | _____ |
| DESIGNED BY | _____ |
| CHECKED BY | _____ |
| NOTED BY | _____ |
| QUANTITIES BY | _____ |
| ORIGINAL PLAN | _____ |

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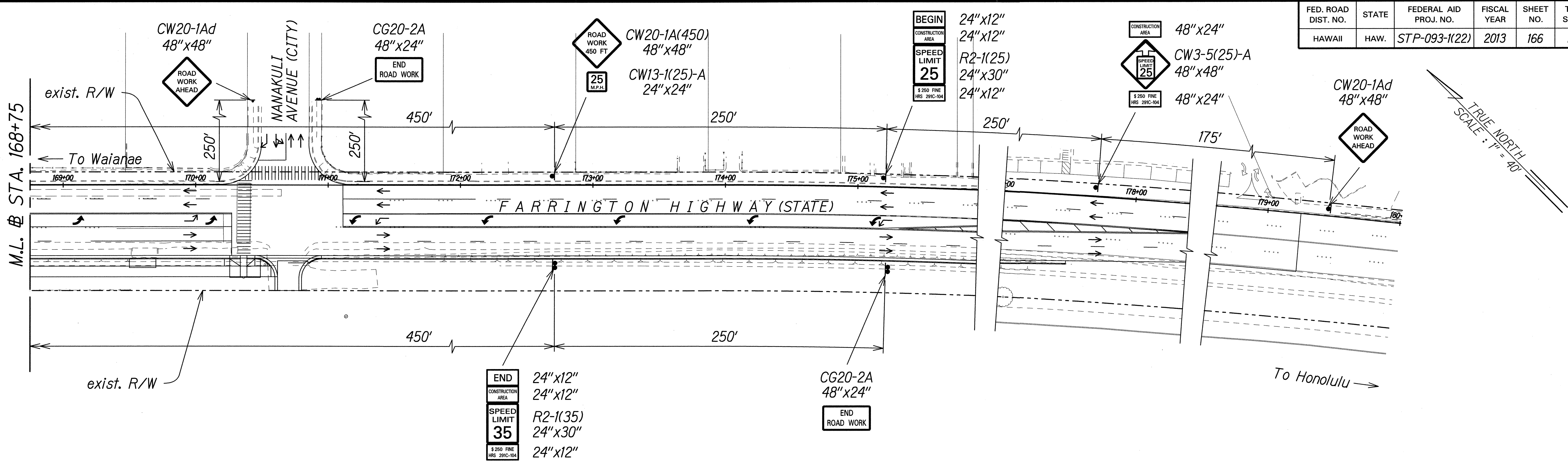
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE 3**

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII | HAW. | STP-093-1(22) | 2013 | 166 | 230 |



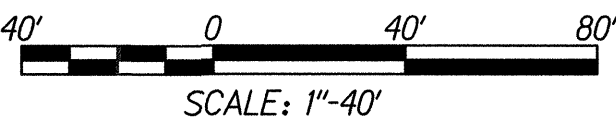
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| ORIGINAL PLAN | DATE |
| DESIGNED BY | |
| TRACED BY | |
| NOTED BY | |
| CHECKED BY | |

NOTE:

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Legend:

- • • • Cones used during work hours (to be removed during non-working hours)
- ▲ ▲ ▲ ▲ Cones used during work and non-working hours
- Direction of Traffic
- ◀ Sign
- Work Area
- Traffic Impact Attenuator
- Portable Concrete Barrier With RM-3 Reflector Marker
- Flashing Arrow Signal



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SIGNATURE: *Gerald D. Andrade* EXPIRATION DATE OF THE LICENSE: 04/30/14

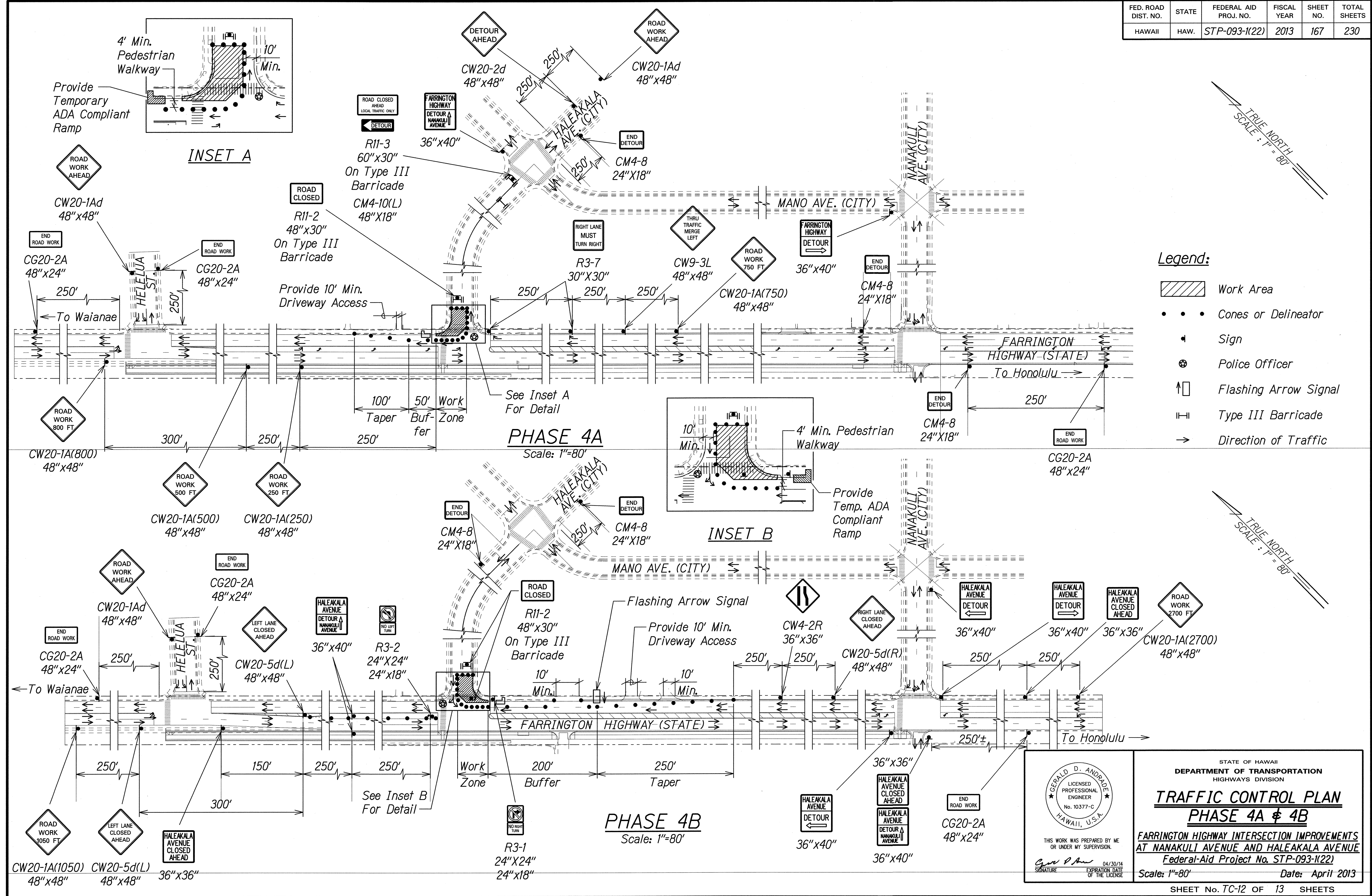
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE 3

FARRINGTON HIGHWAY INTERSECTION IMPROVEMENTS
AT NANAKULI AVENUE AND HALEAKALA AVENUE
Federal-Aid Project No. STP-093-1(22)

Scale: 1"=40' Date: April 2013

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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