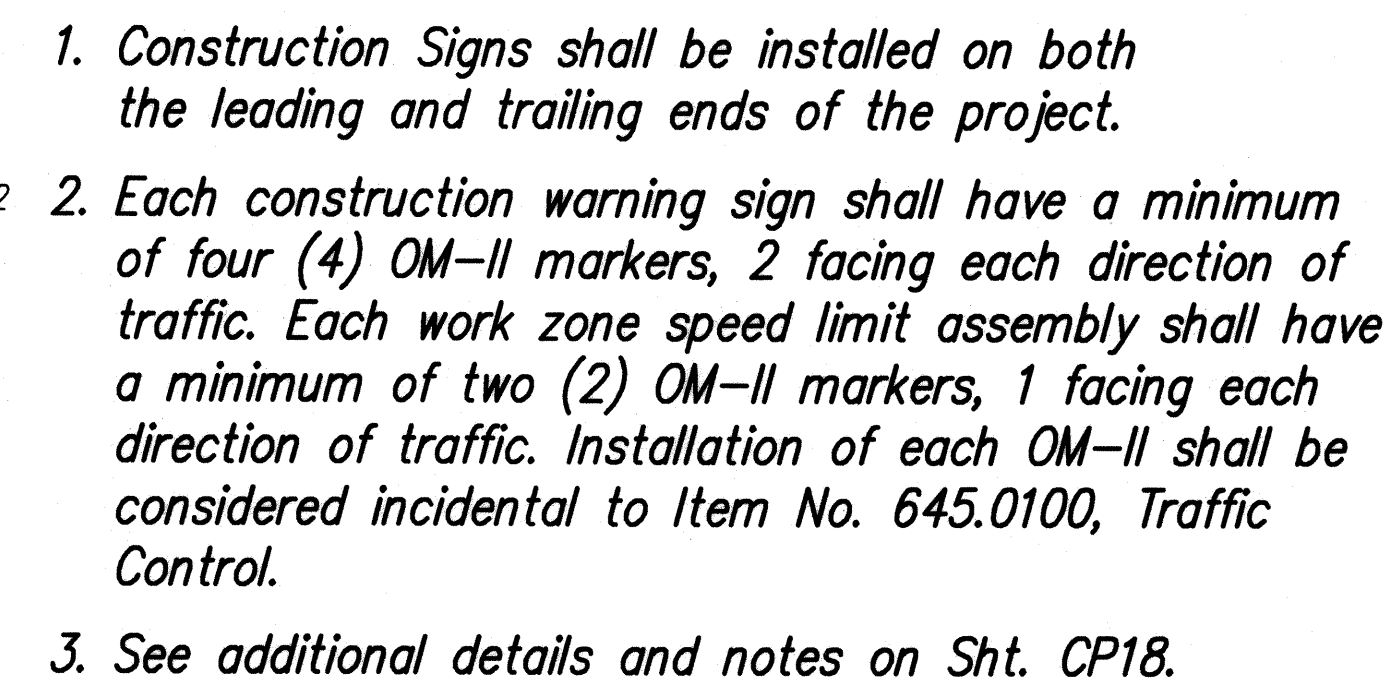




ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
	CHECKED BY _____
No. _____	



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Russell M. Arakawa
ParEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

CONSTRUCTION PHASING

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

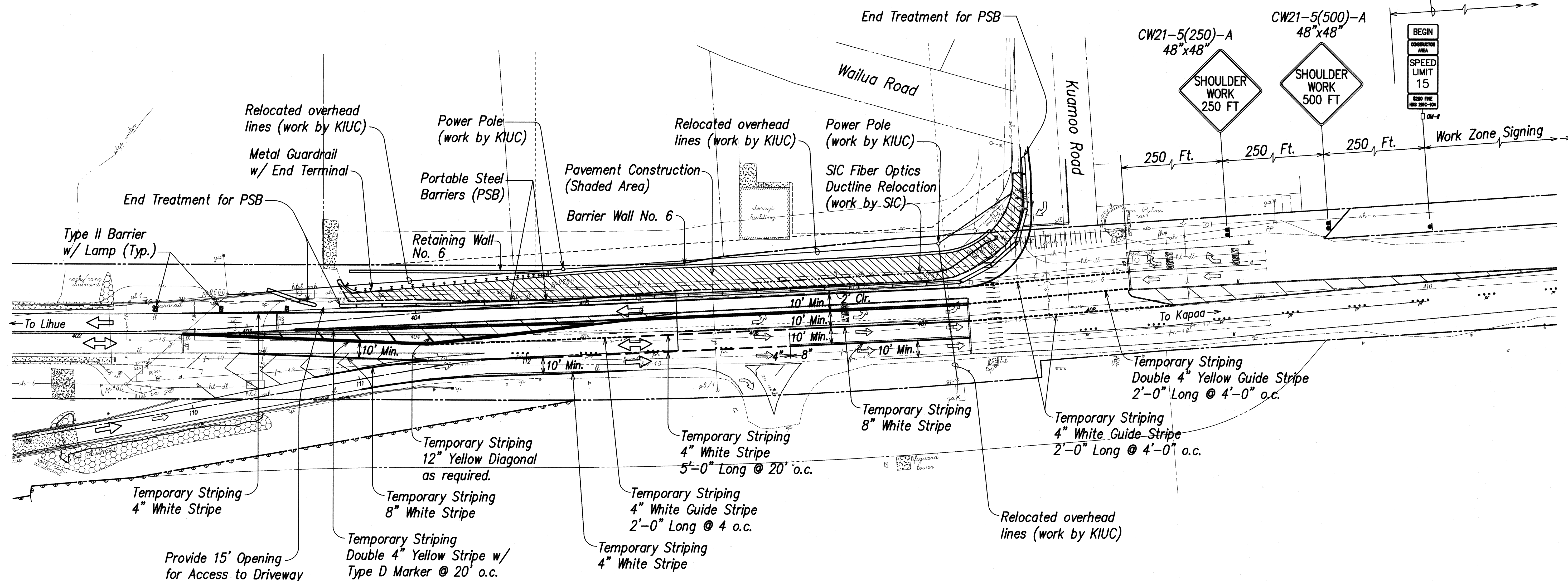
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

SHEET No. CP1 OF CP18 SHEETS

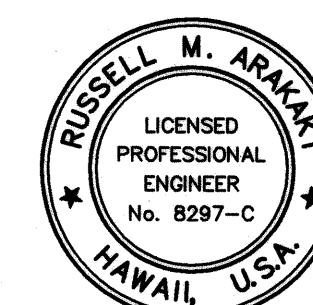
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	94	284

TRUE NORTH
Scale: 1"= 30'See Typical Work Zone
Signing Plan, Sht. CP18
and Sht. CP1 for Cont.**CONSTRUCTION PHASE 1**
SCALE: 1"= 30'**Construction Phasing Notes:**

1. The general scope of work for this phase consists of coordination with KIUC to install power poles and relocate the overhead lines, coordination with SIC to install temporary overhead cables and relocate fiber optics ductline, construction of Retaining Wall No. 6 and Barrier Wall No. 6, construction of roadway pavement structure, installation of dumped riprap and metal guardrail.
2. Contractor shall install the striping as shown on the above plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

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P.E., Inc.
880 PARK ENGINEERING
LICENSE EXPIRES 4-30-10STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**CONSTRUCTION PHASING**

KUHIU HIGHWAY, SHORT TERM IMPROVEMENTS

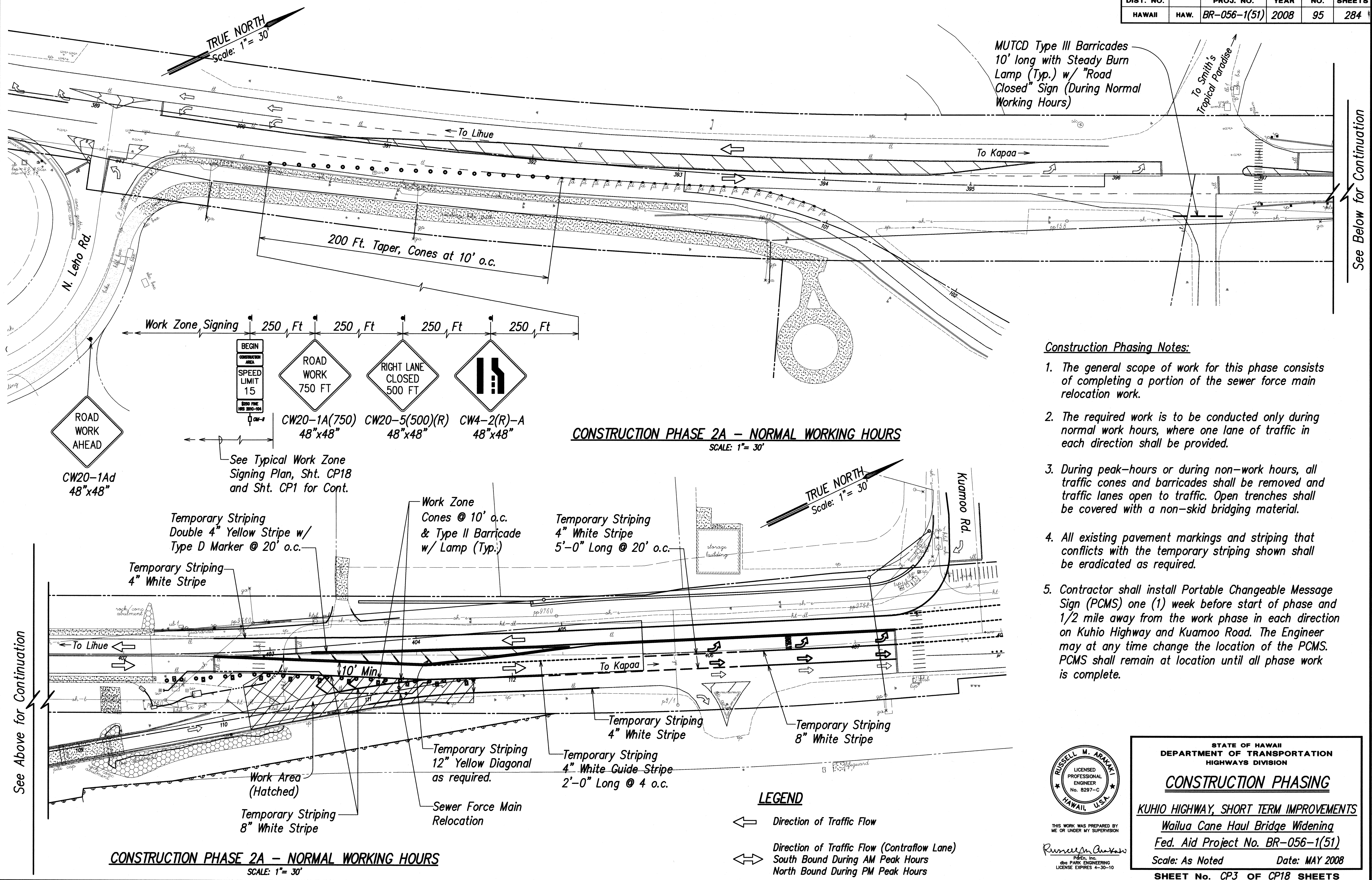
Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

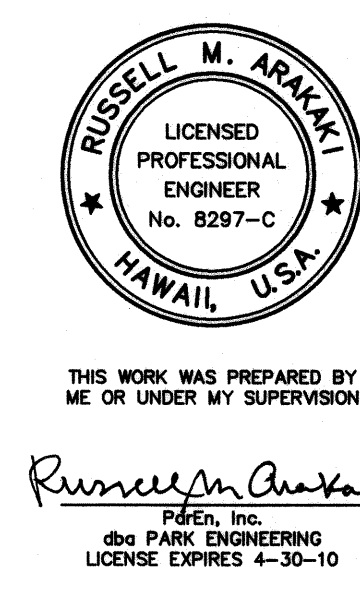
Scale: As Noted Date: MAY 2008

SHEET No. CP2 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	95	284



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

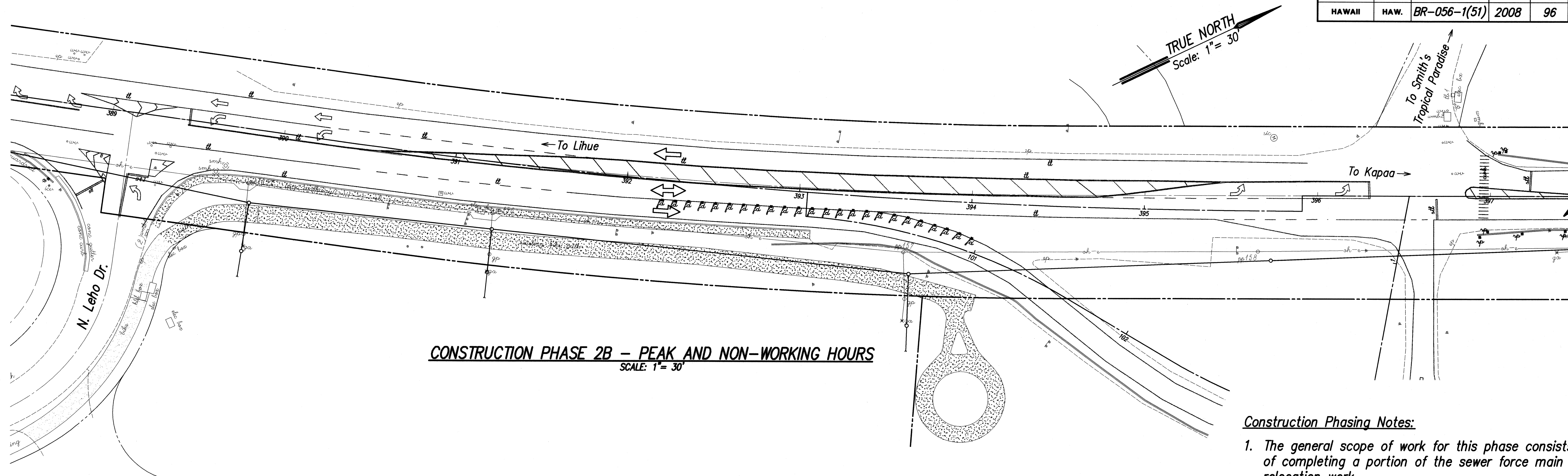
KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

SHEET No. CP3 OF CP18 SHEETS

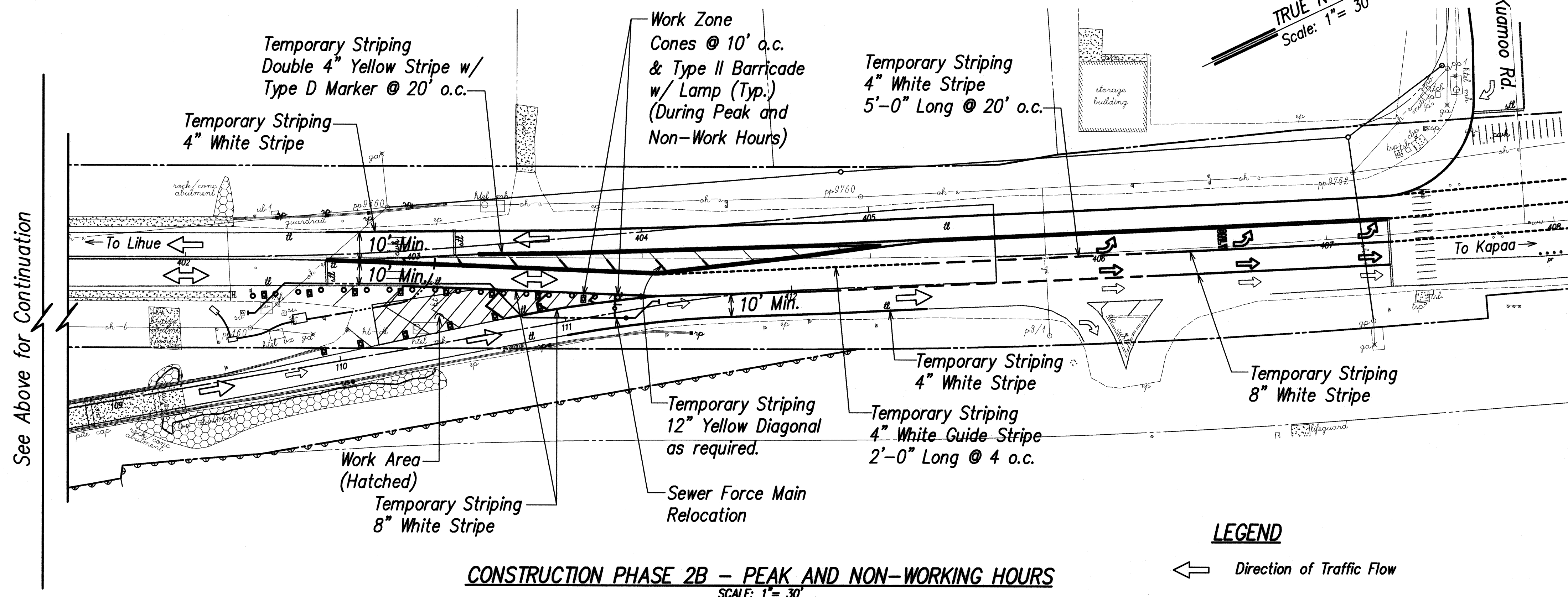
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	96	284



CONSTRUCTION PHASE 2B - PEAK AND NON-WORKING HOURS
SCALE: 1" = 30'

Construction Phasing Notes:

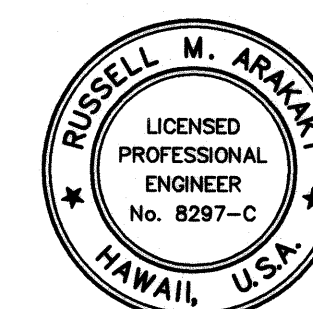
1. The general scope of work for this phase consists of completing a portion of the sewer force main relocation work.
2. The required work is to be conducted only during normal work hours, where one lane of traffic in each direction shall be provided.
3. During peak-hours or during non-work hours, all traffic cones and barricades shall be removed and traffic lanes open to traffic. Open trenches shall be covered with a non-skid bridging material.
4. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
5. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.



CONSTRUCTION PHASE 2B - PEAK AND NON-WORKING HOURS
SCALE: 1" = 30'

LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours



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LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

SHEET No. CP4 OF CP18 SHEETS

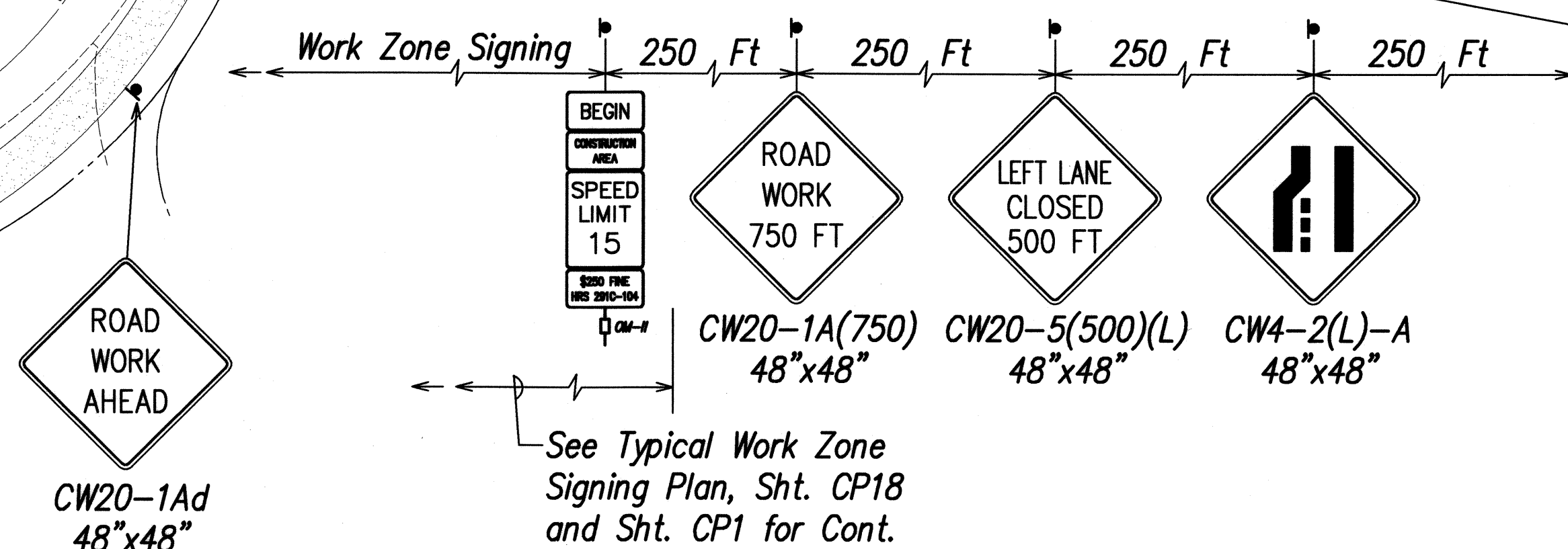
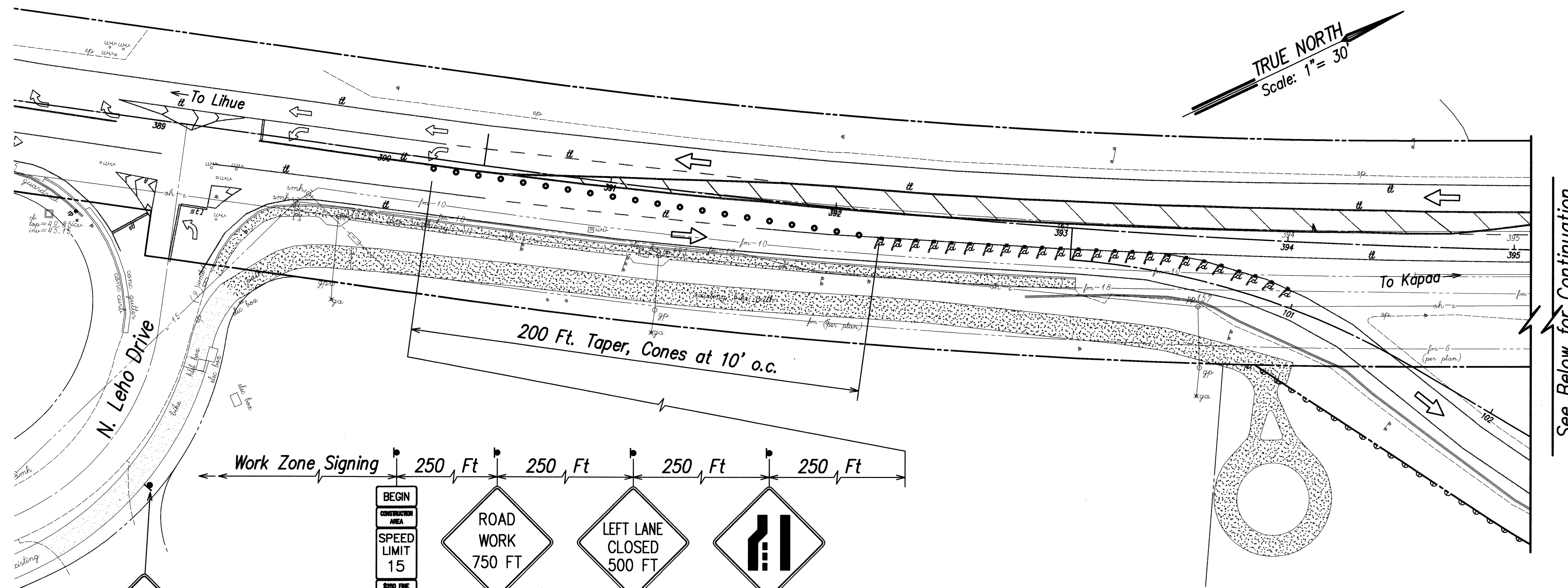
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	97	284

LEGEND

- Direction of Traffic Flow
 Direction of Traffic Flow (Contraflow Lane)
 South Bound During AM Peak Hours
 North Bound During PM Peak Hours

Construction Phasing Notes:

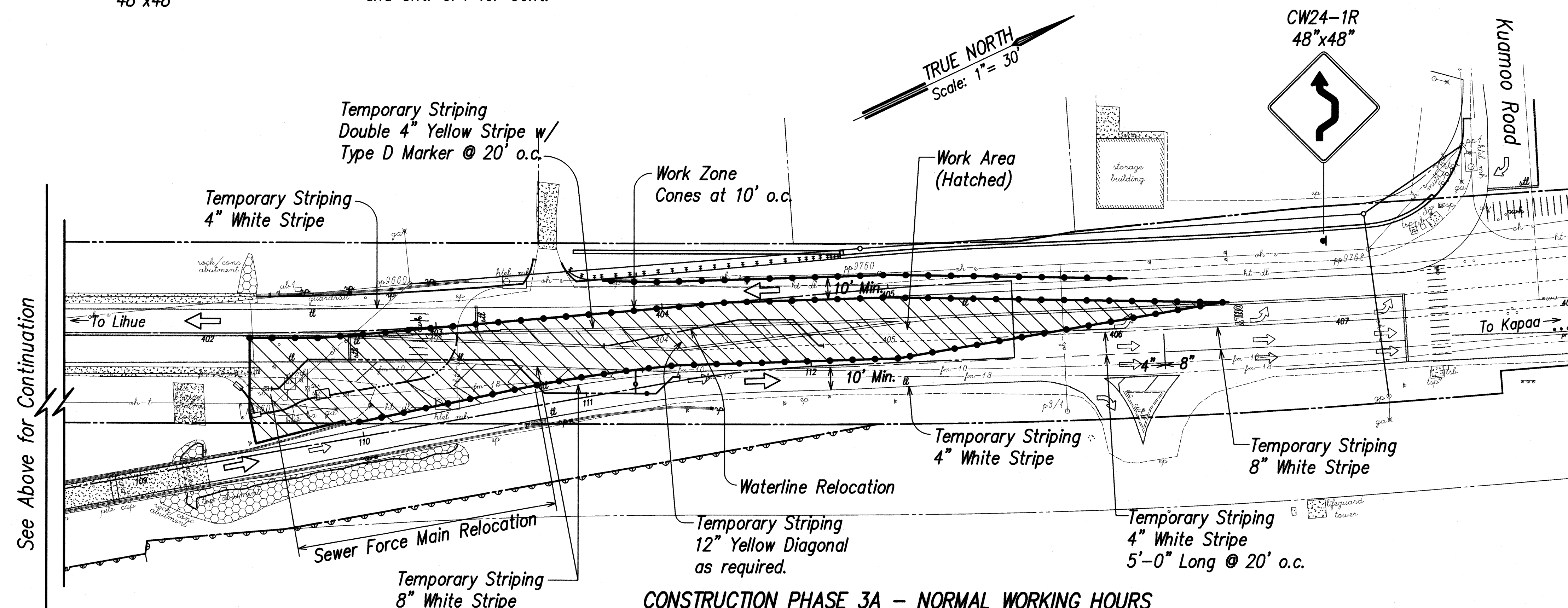
- The general scope of work for this phase consists of relocating the existing waterline, completing the sewer force main relocation. Coordinate connection at both ends of relocation along with proposed shut down of the force main. Coordinate the shutdown with the County of Kauai.
- The required work is to be conducted only during normal work hours, where one lane of traffic in each direction shall be provided.
- During peak-hours or during non-work hours, all traffic cones and barricades shall be removed and traffic lanes opened to traffic. Open trenches shall be covered with a non-skid bridging material.
- Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.



CONSTRUCTION PHASE 3A - NORMAL WORKING HOURS

SCALE: 1" = 30'

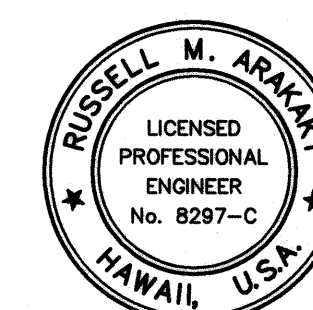
See Typical Work Zone Signing Plan, Sht. CP18 and Sht. CP1 for Cont.



CONSTRUCTION PHASE 3A - NORMAL WORKING HOURS

SCALE: 1" = 30'

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	



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For En. Inc.
400 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHIU HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

SHEET No. CP5 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	98	284

TRUE NORTH
Scale: 1" = 30'

LEGEND

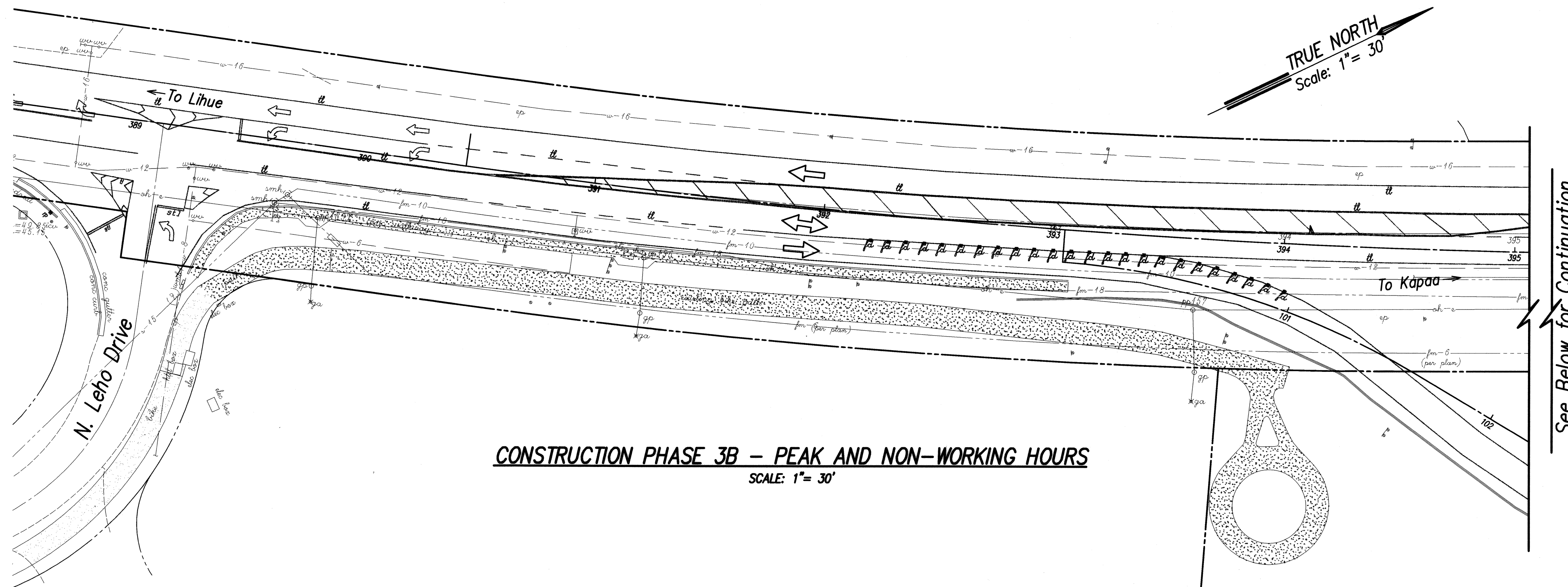
- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

Construction Phasing Notes:

- The general scope of work for this phase consists of relocating the existing waterline, completing the sewer force main relocation. Coordinate connection at both ends of relocation along with proposed shut down of the force main. Coordinate the shutdown with the County of Kauai.
- The required work is to be conducted only during normal work hours, where one lane of traffic in each direction shall be provided.
- During peak-hours or during non-work hours, all traffic cones and barricades shall be removed and traffic lanes opened to traffic. Open trenches shall be covered with a non-skid bridging material.
- Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

CONSTRUCTION PHASE 3B - PEAK AND NON-WORKING HOURS

SCALE: 1" = 30'



Temporary Striping
Double 4" Yellow Stripe w/
Type D Marker @ 20' o.c.

Temporary Striping
4" White Stripe

Work Area
(Hatched)

Work Zone
Cones @ 10' o.c.
& Type II Barricade
w/ Lamp (Typ.)
(During Peak and
Non-Work Hours)

Temporary Striping
4" White Stripe
5'-0" Long @ 20' o.c.

Temporary Striping
8" White Stripe

Temporary Striping
4" White Stripe

Waterline Relocation

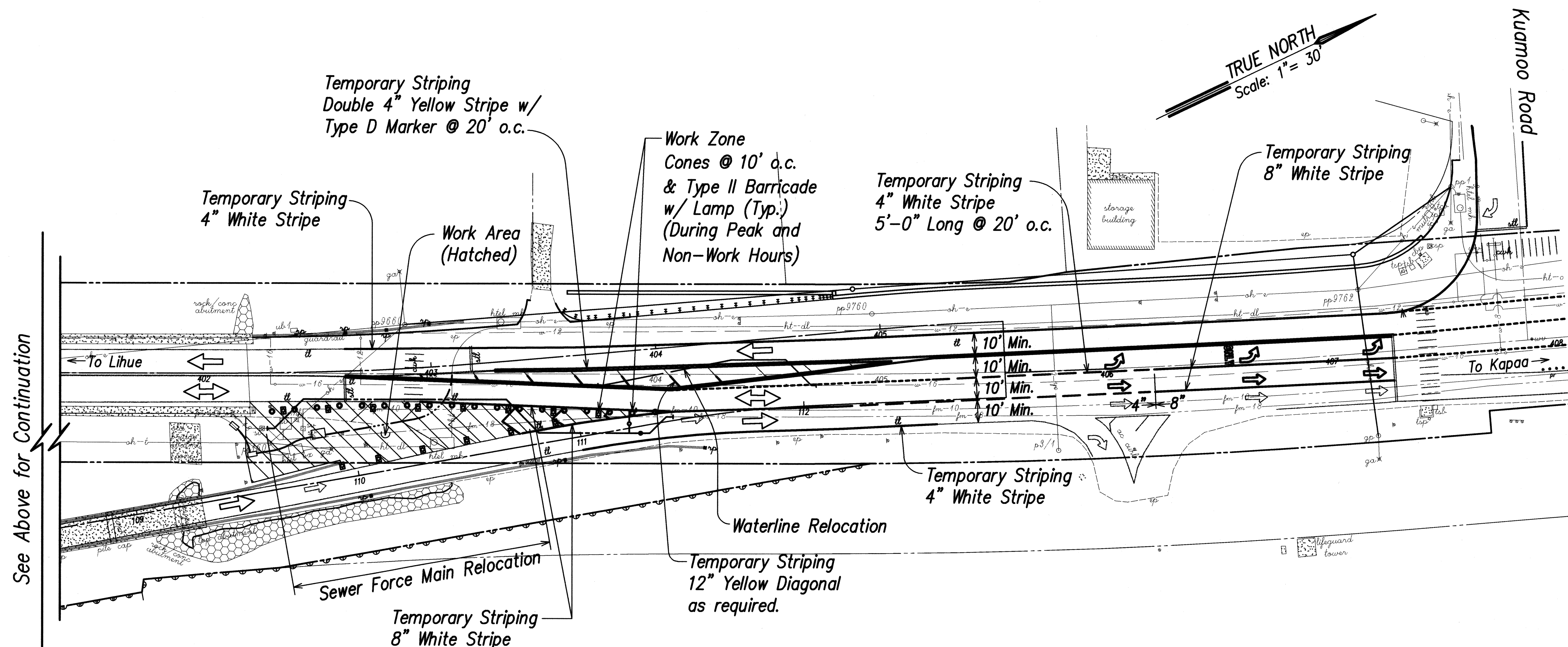
Temporary Striping
12" Yellow Diagonal
as required.

Temporary Striping
8" White Stripe

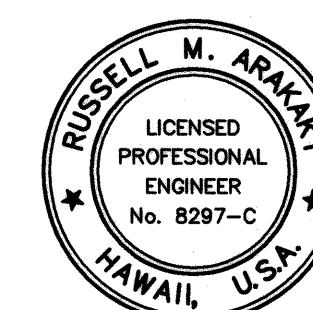
Sewer Force Main Relocation

CONSTRUCTION PHASE 3B - PEAK AND NON-WORKING HOURS

SCALE: 1" = 30'



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



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Russell M. Araki
P.E., Inc.
303 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

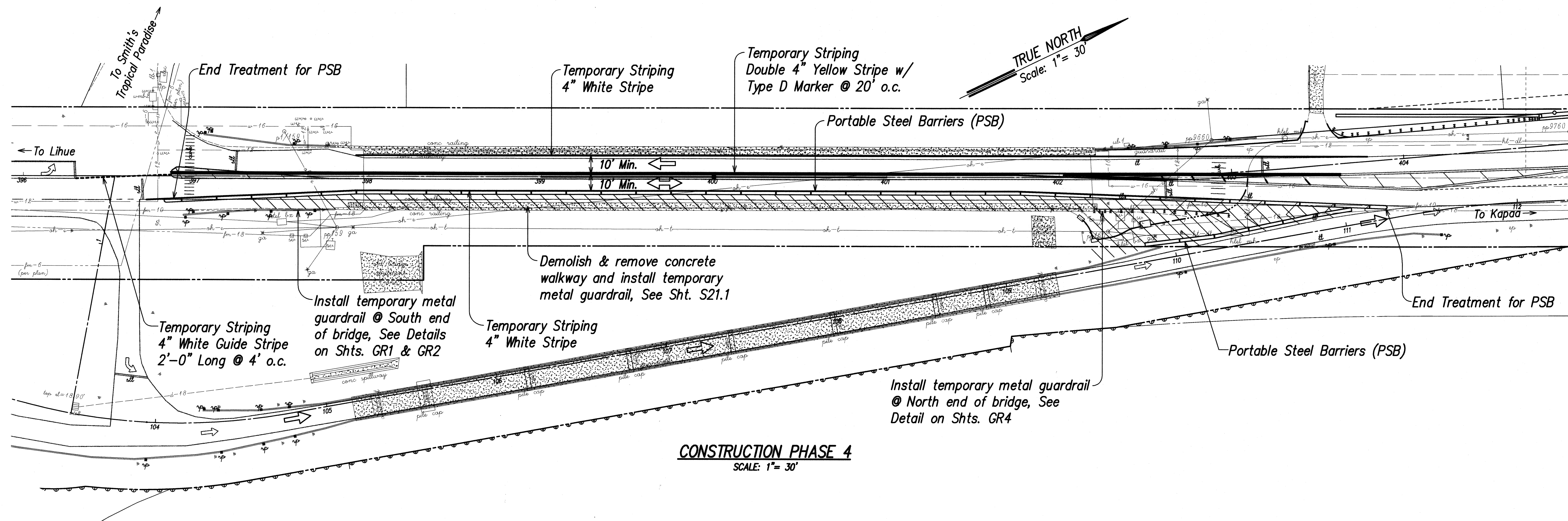
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

SHEET No. CP6 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	99	284



CONSTRUCTION PHASE 4
SCALE: 1" = 30'

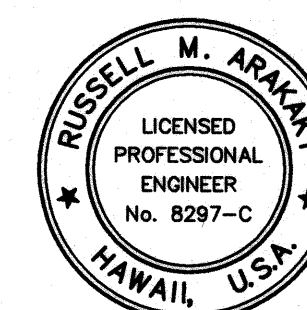
Construction Phasing Notes:

1. The general scope of work for this phase consists of widening the travelway width on the Wailua River Bridge by demolishing & removing the existing concrete walkway and installing temp. metal guardrail on the bridge and at each end of the bridge.
2. Contractor shall install striping as shown on the above plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shall be eradicated as required.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

SURVEY PLOTTED BY	DATE
DRAWN BY	
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QUANTITIES BY	
CHECKED BY	



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P.E., Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

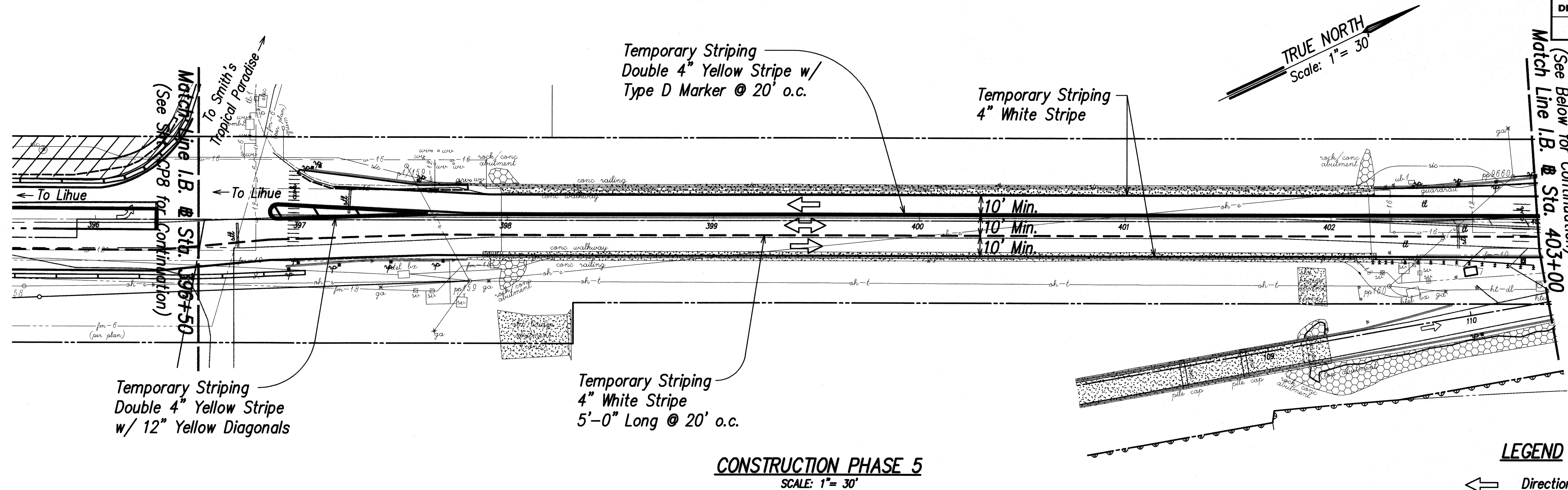
Scale: As Noted

Date: MAY 2008

SHEET No. CP7 OF CP18 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	101	284

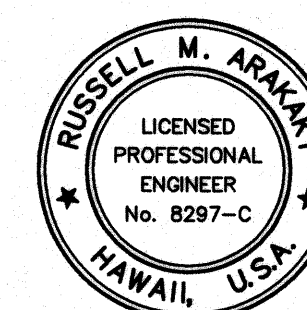
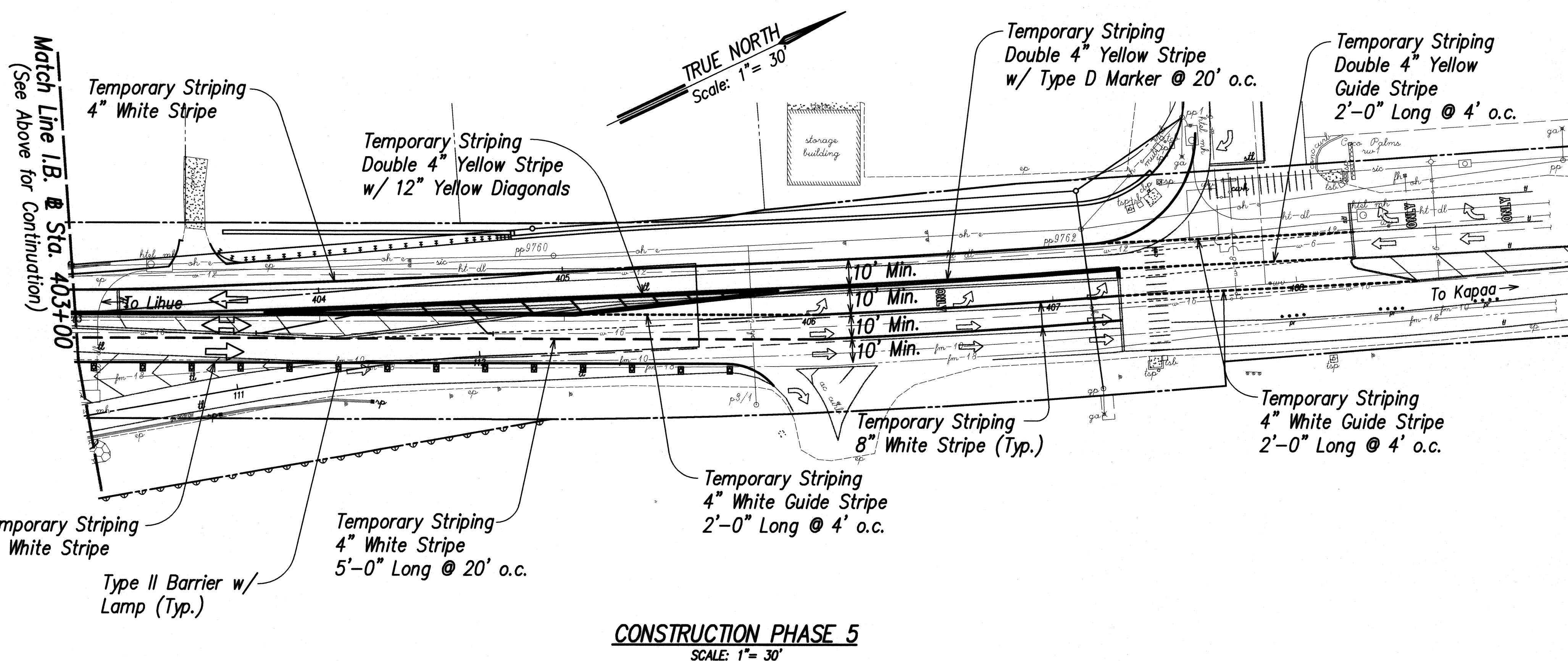


LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

Construction Phasing Notes :

1. The general scope of work for this phase consists of reconstructing the inbound shoulder and dressing the shoulder.
2. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
3. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kahoehoe Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.



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Russell M. Araki
RPA, INC.
400 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

SHEET No. CP9 OF CP18 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

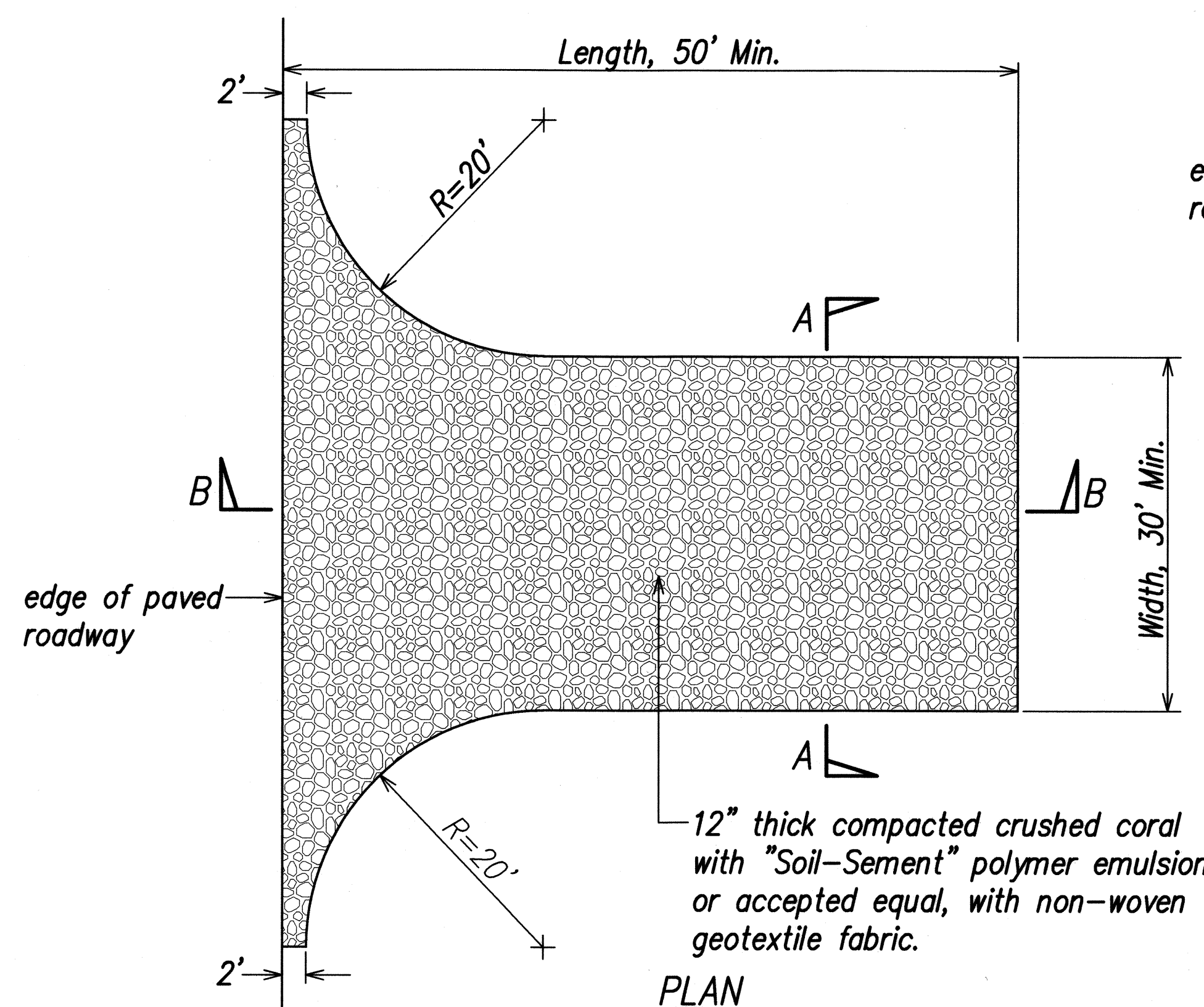
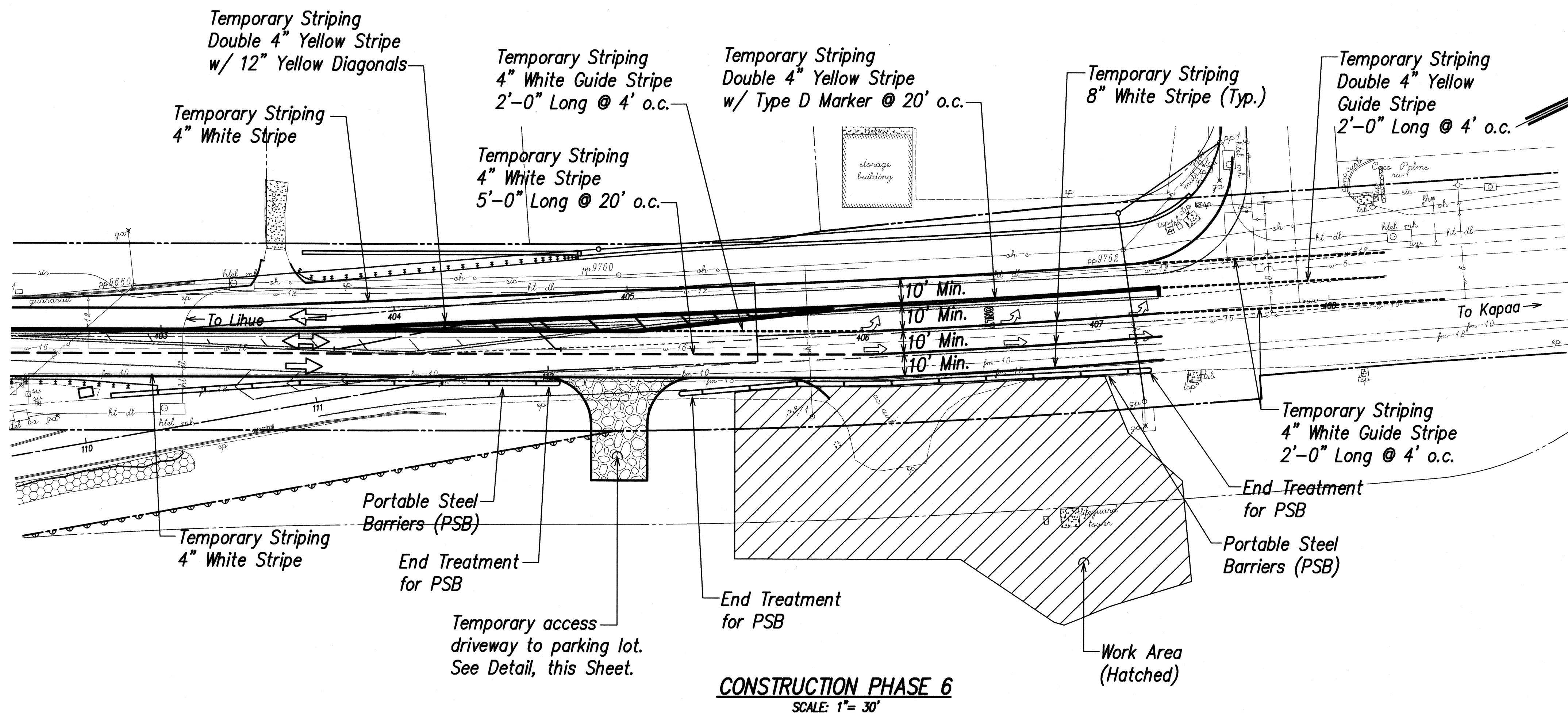
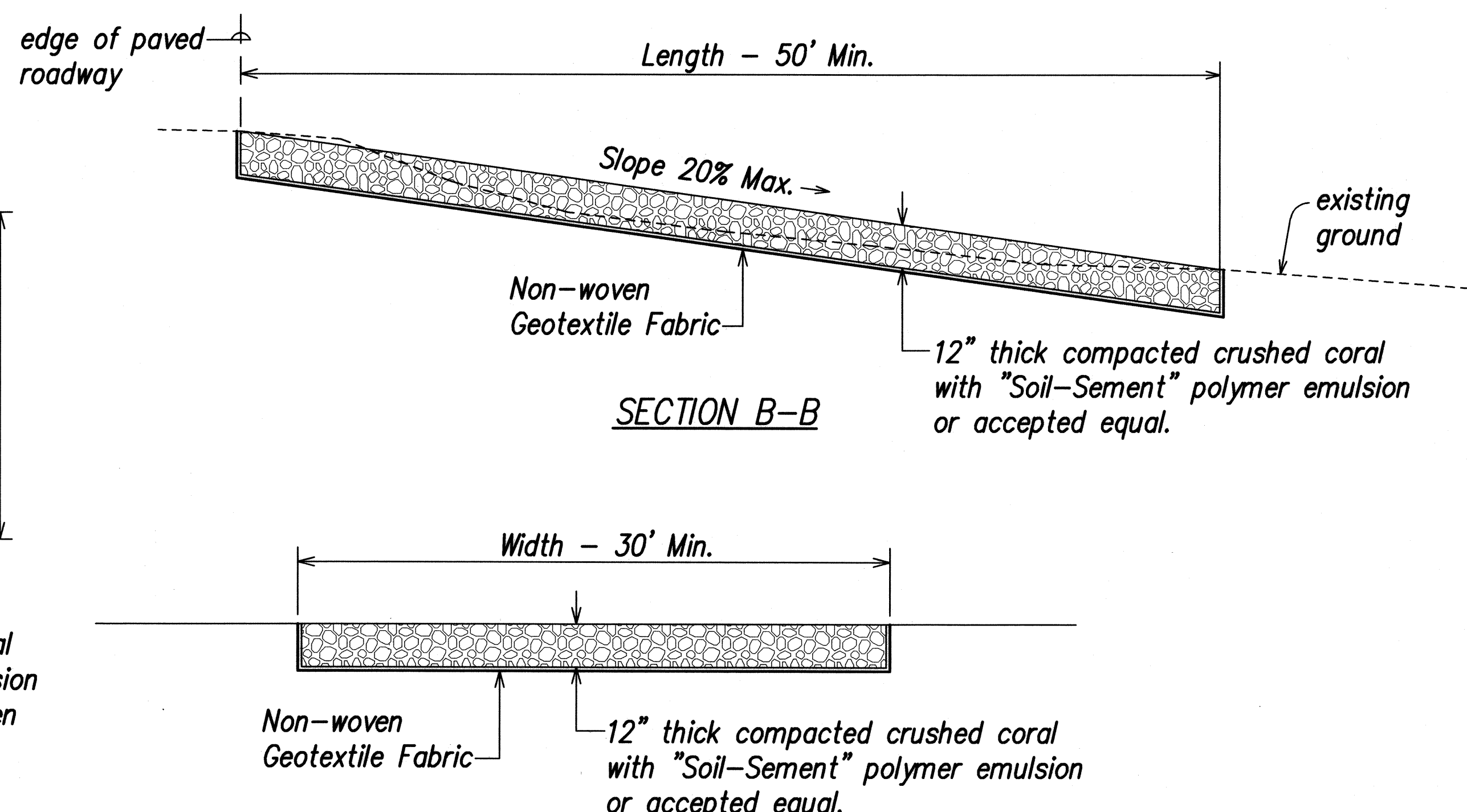
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	102	284

TRUE NORTH
Scale: 1" = 30'**Construction Phasing Notes :**

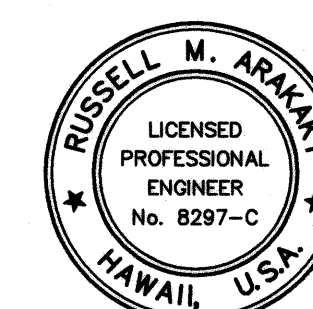
1. The general scope of work for this phase consists of constructing the Parking Lot Expansion and reconstructing the paved parking lot driveway. Work includes construction of temporary access driveway to the existing parking lot.
2. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
3. Contractor shall notify the public at least 2 weeks prior to closure of the access road for the parking lot at Wailua Beach Park.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.
5. See Notes for Construction within Wailua Beach Park on Sht. GP3.

LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

**Temporary Access Driveway**
Not To Scale

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



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Russell M. Arakawa

For En. Inc.
680 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**CONSTRUCTION PHASING**

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

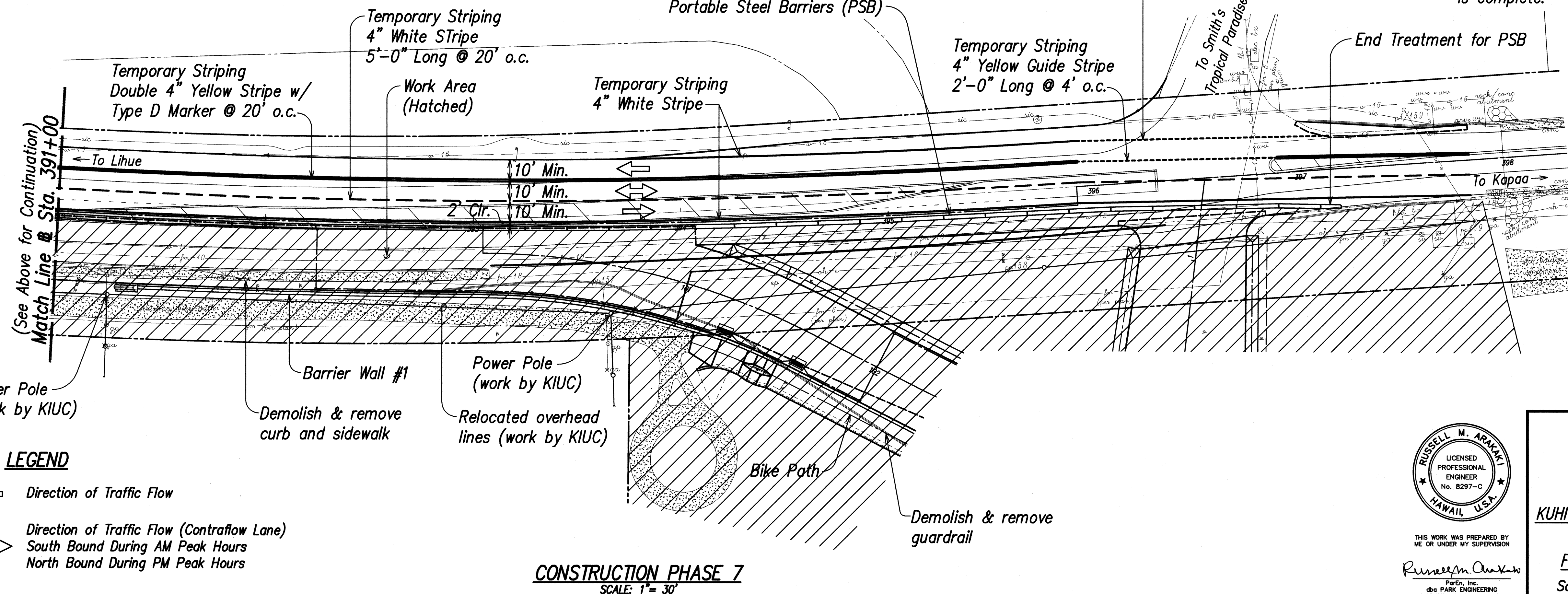
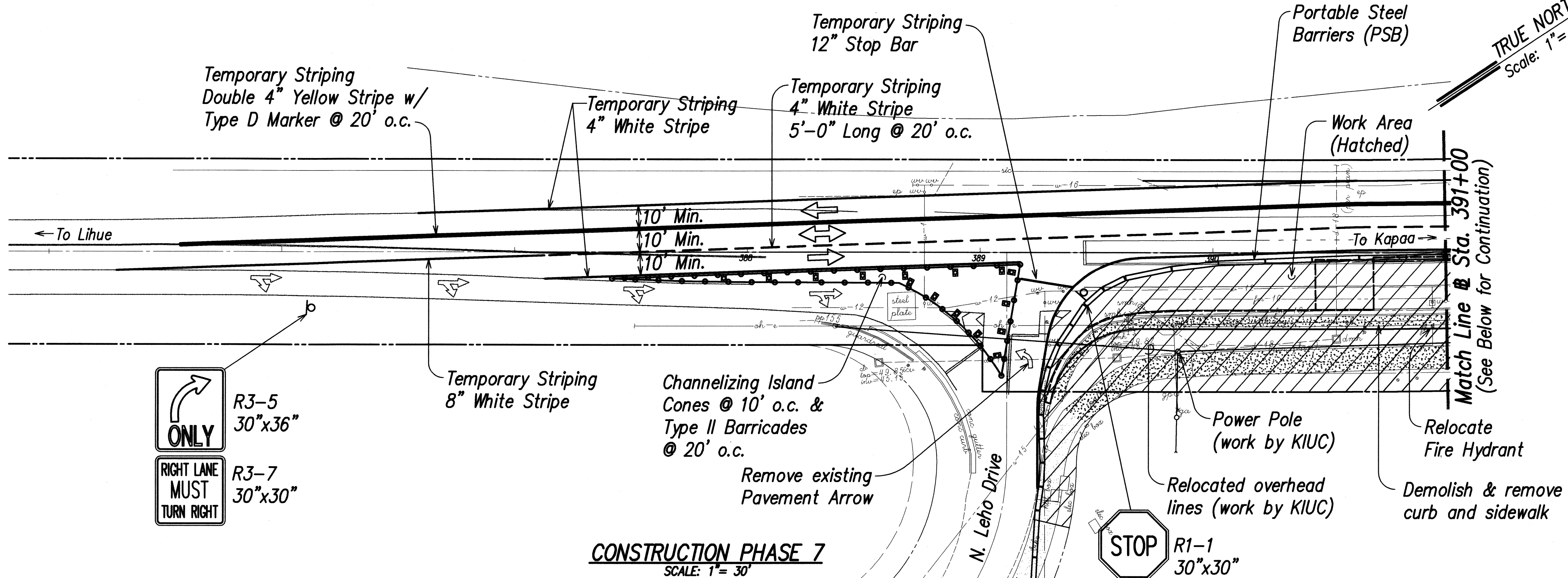
Date: MAY 2008

SHEET No. CP10 OF CP18 SHEETS

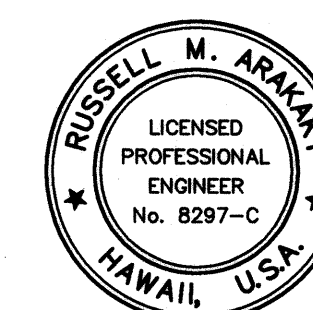
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	103	284

Construction Phasing Notes:

1. The general scope of work for this phase consists of completing the outbound highway construction including completion of barrier wall construction, demolition and removal of curb and sidewalk, guardrail, relocation of fire hydrant, coordination with KIUC to install power poles and relocate the overhead lines, installation of signs and striping.
2. Contractor shall install striping as shown on the phase plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
4. Entry onto N. Leho Drive from Kuhio Highway will only be possible from the right most North bound lane. Likewise, exit from N. Leho Drive onto Kuhio Highway can only be made in the North bound (i.e. right-in, right-out).
5. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.



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

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ME OR UNDER MY SUPERVISIONRussell M. Araki
RMA, Inc.
800 PARK ENGINEERING
LICENSE EXPIRES 4-30-10STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**CONSTRUCTION PHASING**

KUHIU HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

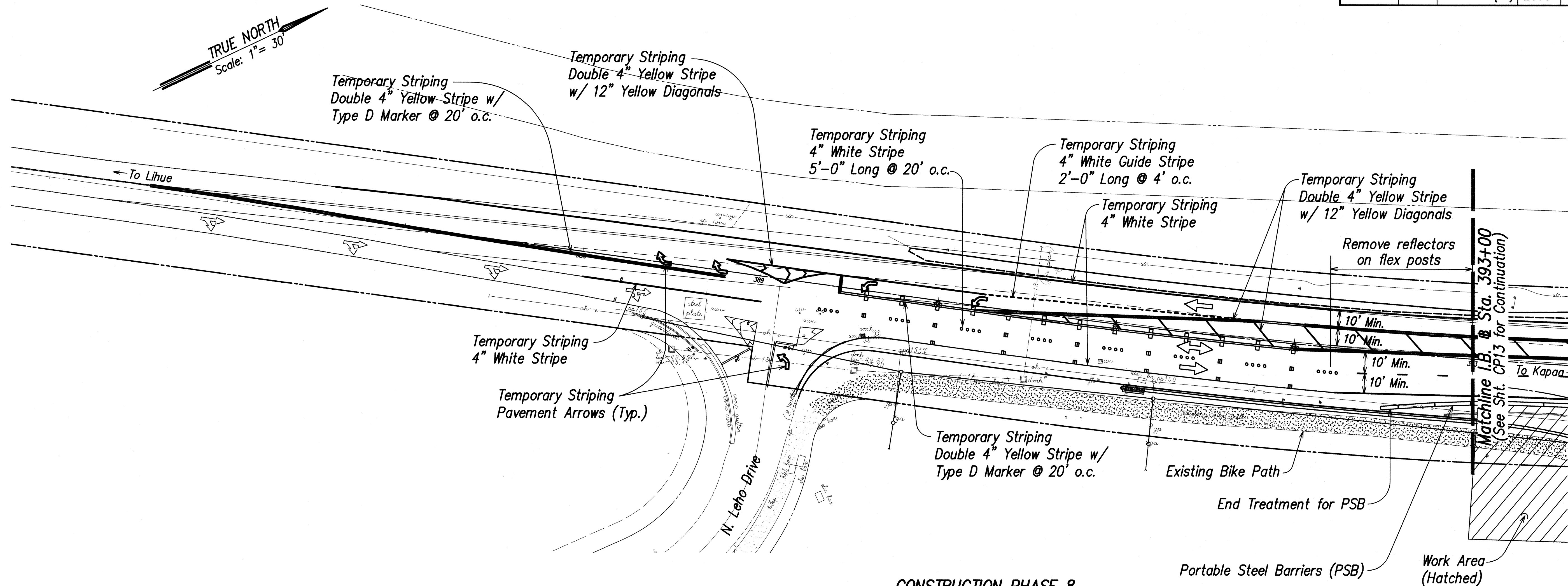
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

SHEET No. CP11 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	104	284

**Construction Phasing Notes:**

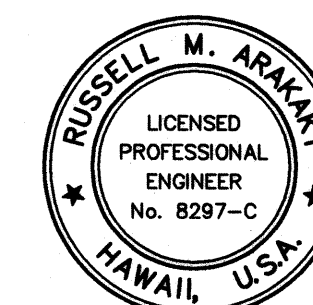
1. The general scope of work for this phase consists of demolishing and removing the Wailua Cane Haul Bridge concrete deck and metal railings, installing a prefabricated metal bridge, construction of concrete bridge, barrier wall, retaining wall, outbound roadway, bike path, drainage system, installation of signs and pavement markings, coordination with KIUC to install power poles and relocate overhead lines, and various other work within the work area.
2. Contractor shall install striping as shown on the above plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shall be eradicated as required.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

CONSTRUCTION PHASE 8

SCALE: 1"= 30'

LEGEND

- ← Direction of Traffic Flow
- ↔ Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours

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ME OR UNDER MY SUPERVISIONRussell M. Arakawa
ParEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**CONSTRUCTION PHASING**

KUHIU HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

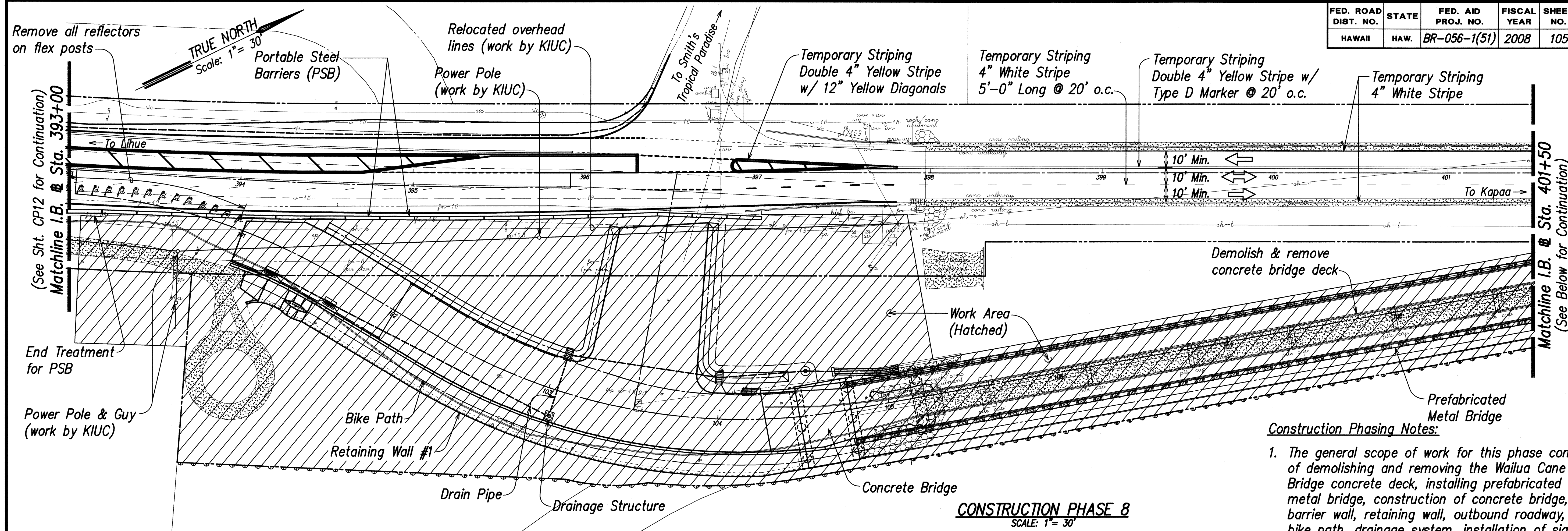
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

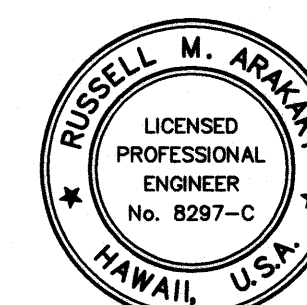
SHEET No. CP12 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	105	284



Construction Phasing Notes:

1. The general scope of work for this phase consists of demolishing and removing the Wailua Cane Haul Bridge concrete deck, installing prefabricated metal bridge, construction of concrete bridge, barrier wall, retaining wall, outbound roadway, bike path, drainage system, installation of signs and pavement markings, coordination with KIUC to install power poles and relocate overhead lines, and various other work within the work area.
2. Contractor shall install striping as shown on the above plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shall be eradicated as required.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.
5. See Notes for Construction within Wailua Beach Park on Sht. GP3.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Russell M. Araki
RMA, Inc.
800 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

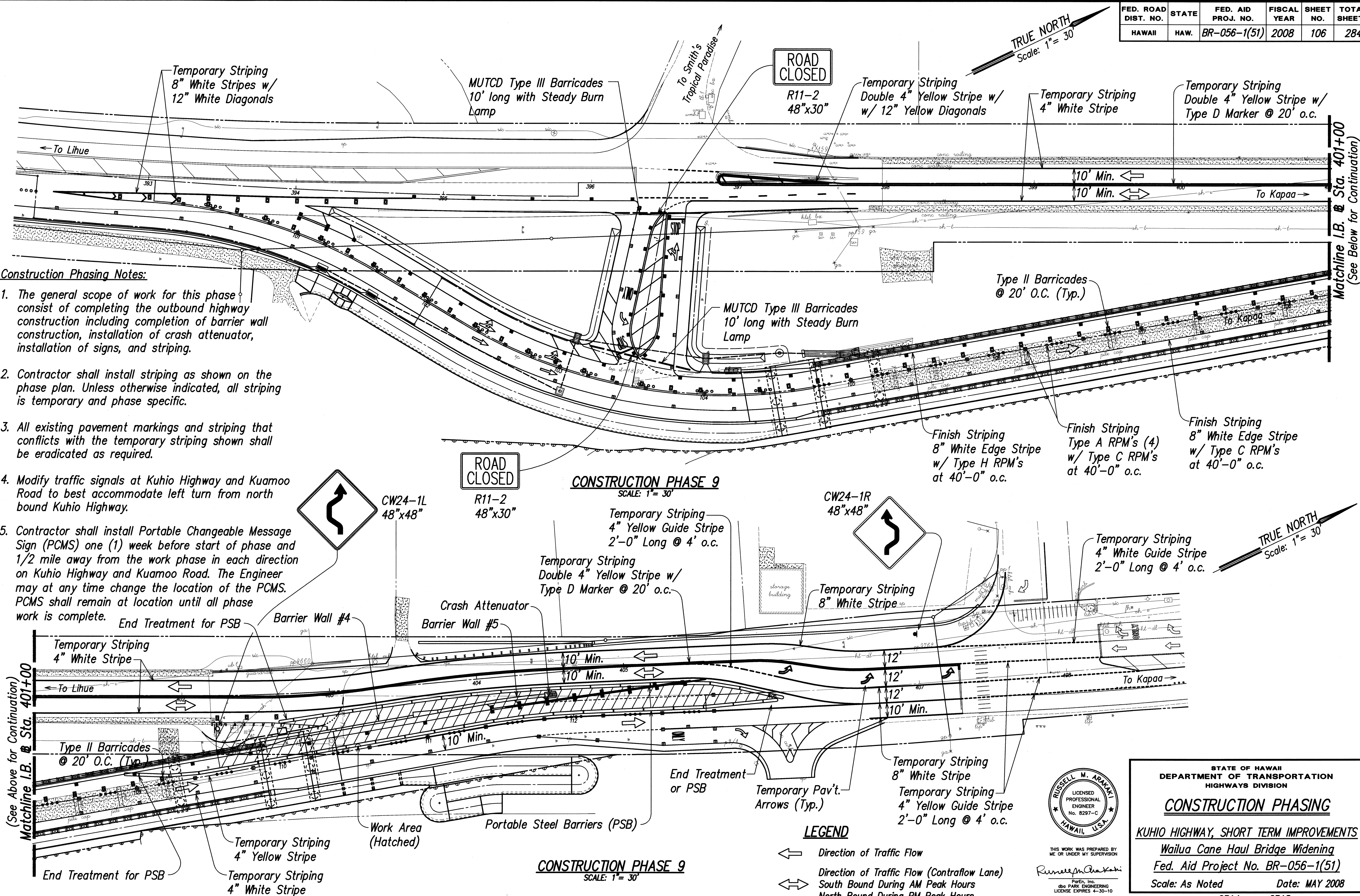
Wailua Cane Haul Bridge Widening
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

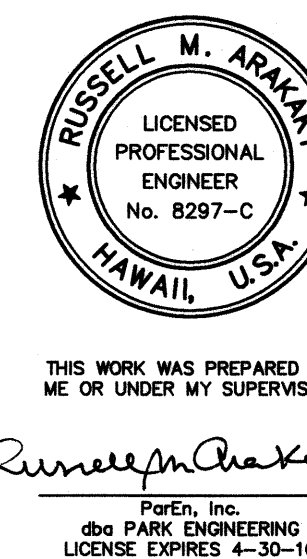
SHEET No. CP13 OF CP18 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	106	284



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

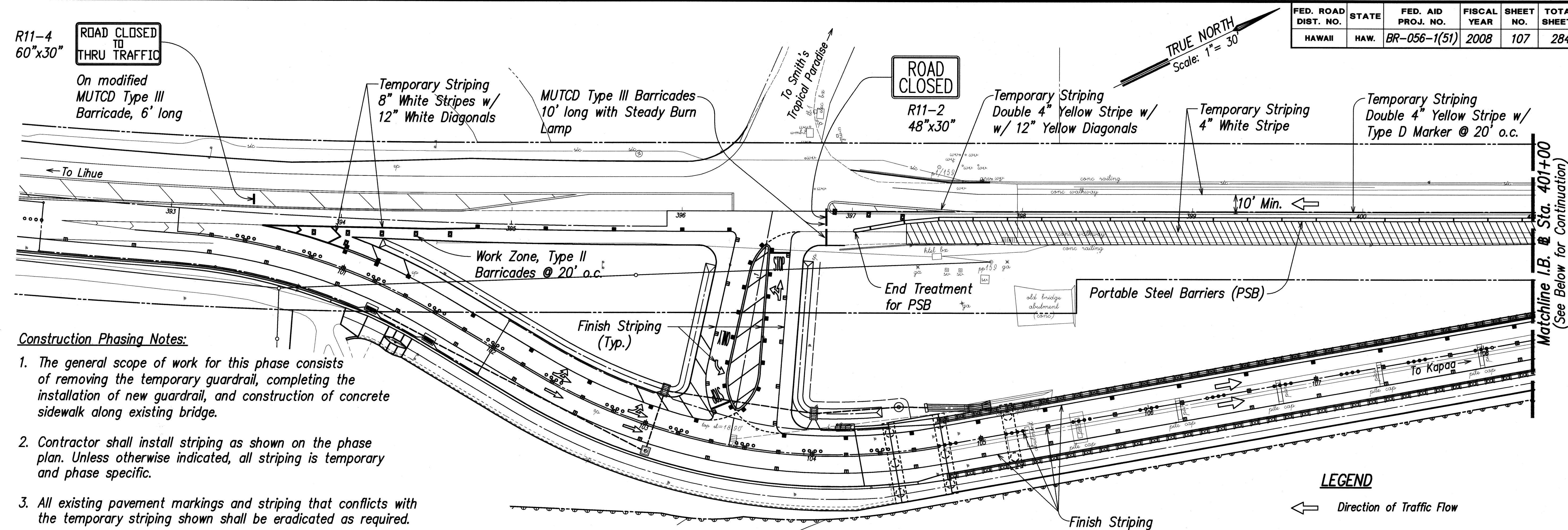
CONSTRUCTION PHASING

KUHIU HIGHWAY, SHORT TERM IMPROVEMENTS
Wailua Cane Haul Bridge Widening
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

SHEET No. CP14 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	107	284



Construction Phasing Notes:

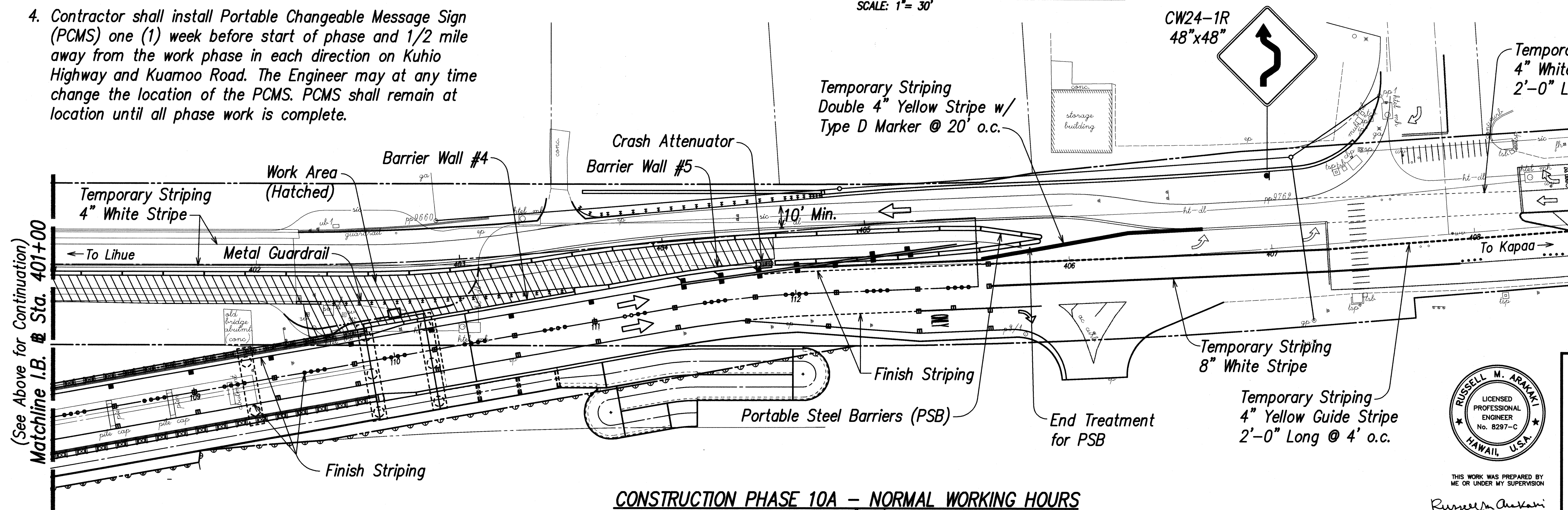
1. The general scope of work for this phase consists of removing the temporary guardrail, completing the installation of new guardrail, and construction of concrete sidewalk along existing bridge.
2. Contractor shall install striping as shown on the phase plan. Unless otherwise indicated, all striping is temporary and phase specific.
3. All existing pavement markings and striping that conflicts with the temporary striping shown shall be eradicated as required.
3. Modify traffic signals at Kuhio Highway and Kuamoo Road to best accommodate left turn from north bound Kuhio Highway.
4. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

CONSTRUCTION PHASE 10A - NORMAL WORKING HOURS

SCALE: 1" = 30'

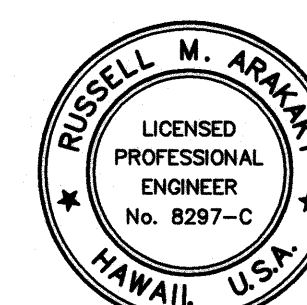
LEGEND

- Direction of Traffic Flow
- Direction of Traffic Flow (Contraflow Lane)
South Bound During AM Peak Hours
North Bound During PM Peak Hours



CONSTRUCTION PHASE 10A - NORMAL WORKING HOURS

SCALE: 1" = 30'



THIS WORK WAS PREPARED BY
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Russell M. Araki
Professional Engineer
License Expires 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHO HIGHWAY, SHORT TERM IMPROVEMENTS

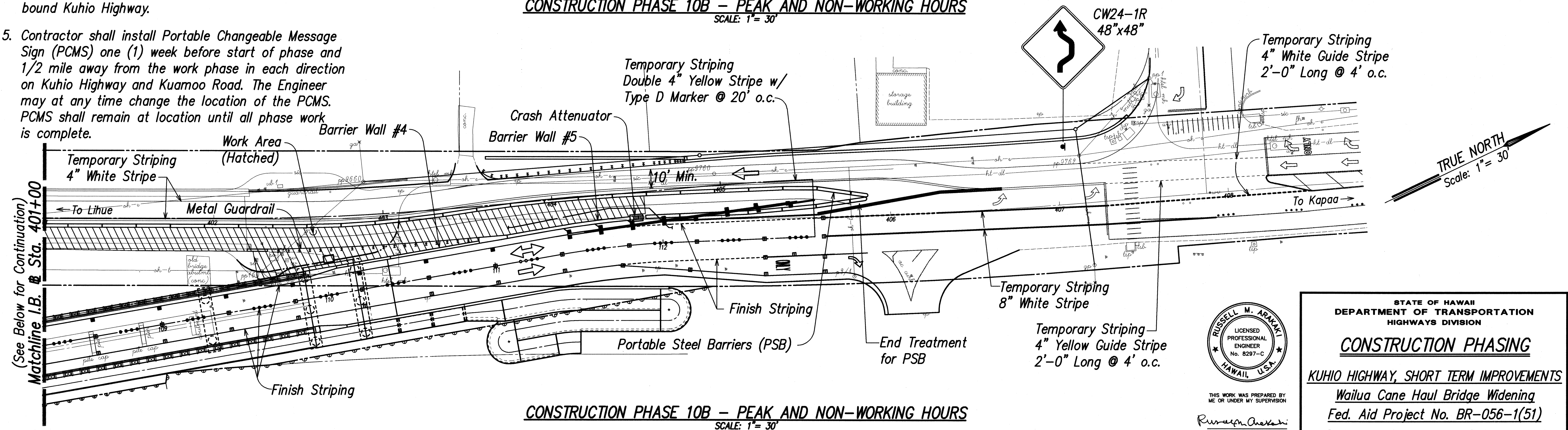
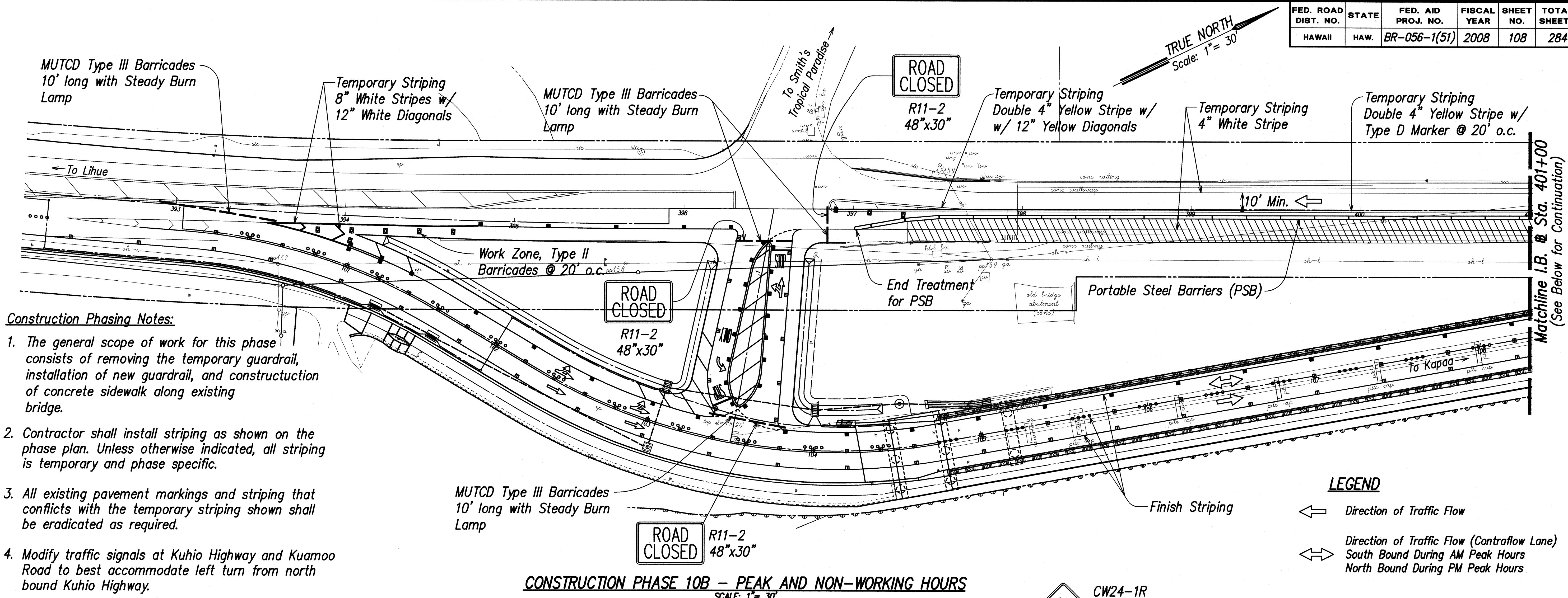
Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

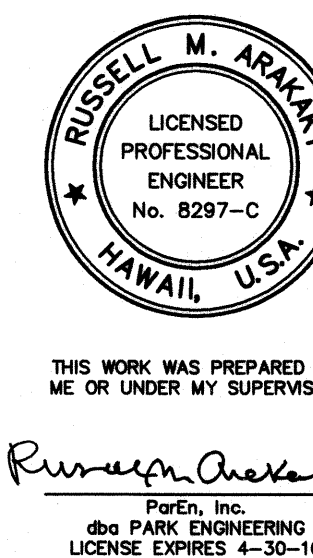
Scale: As Noted Date: MAY 2008

SHEET No. CP15 OF CP18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	108	284



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

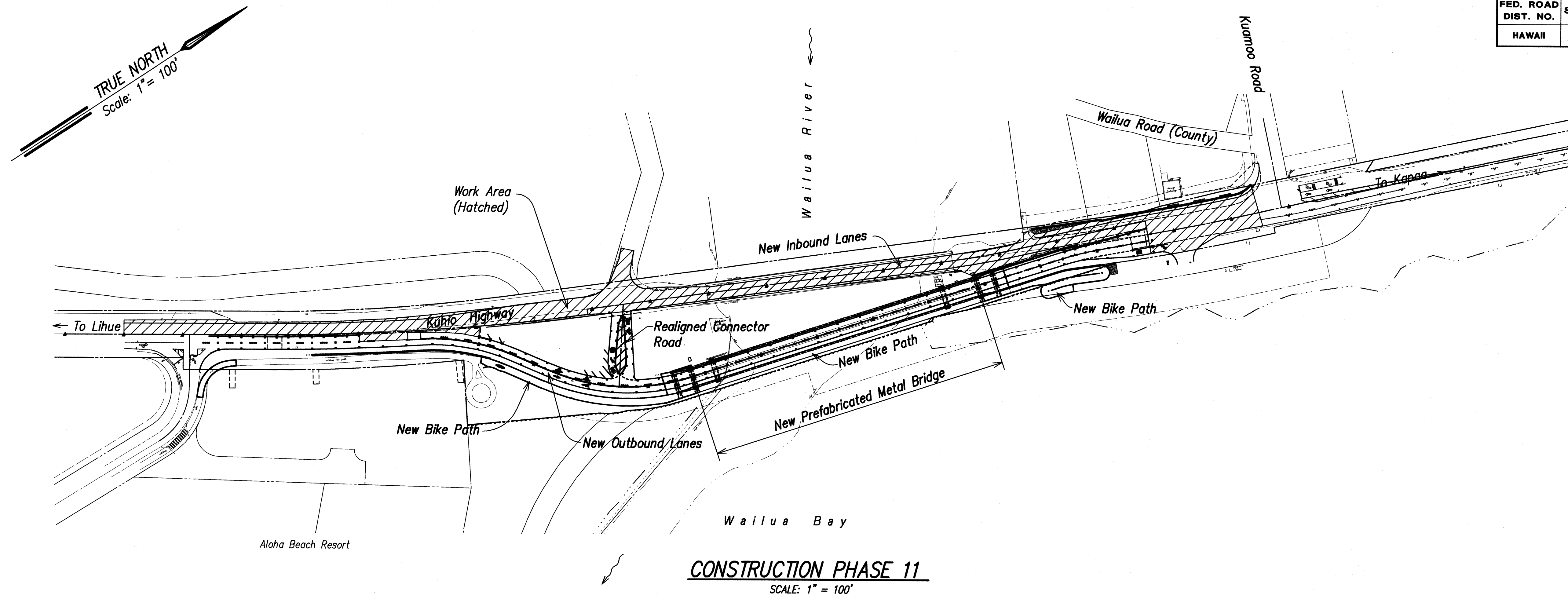
CONSTRUCTION PHASING

KUHO HIGHWAY, SHORT TERM IMPROVEMENTS
Wailua Cane Haul Bridge Widening
Fed. Aid Project No. BR-056-1(51)

Scale: As Noted Date: MAY 2008

SHEET No. CP16 OF CP18 SHEETS

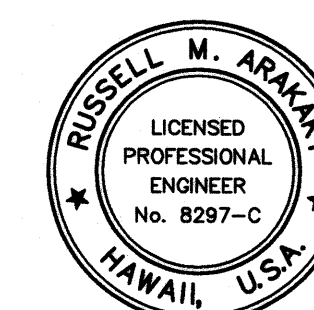
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	109	284



Construction Phasing Notes:

1. The general scope of work for this phase consists of completing the installation of all signs, striping and pavement markings and all other incidental work as shown on the signing and striping plans.
2. Contractor shall install Portable Changeable Message Sign (PCMS) one (1) week before start of phase and 1/2 mile away from the work phase in each direction on Kuhio Highway and Kuamoo Road. The Engineer may at any time change the location of the PCMS. PCMS shall remain at location until all phase work is complete.

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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Russell M. Arakawa
RMA, Inc.
480 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS

Wailua Cane Haul Bridge Widening

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted

Date: MAY 2008

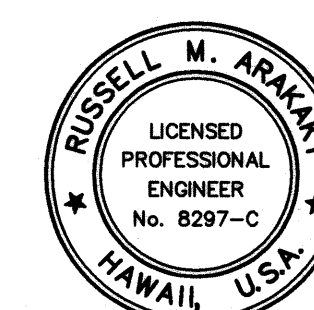
SHEET No. CP17 OF CP18 SHEETS



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(15) and R2-5b(15) 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 four (4) Type III reflective markers (OM-II), 2 facing in each direction of traffic. Each work zone speed limit assembly shall have a minimum of two (2) OM-II, 1 facing each direction of traffic. Installation of each RM-3 shall be considered incidental to Item No. 645.0100, Traffic Control.*
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. 645.0100, Traffic Control.*

Figure 10 displays four diagrams of rectangular traffic signs, each with specific dimensions and a legend.

- Sign 1 (Left):** A rectangular sign with a black border and orange background. The text "CONSTRUCTION AREA" is centered. Dimensions include a total width of 24" and a total height of 12". The legend specifies: Black Background: Orange.
- Sign 2:** A rectangular sign with a black border and white background. The text "\$ 250 FINE HRS 291C-104" is centered. Dimensions include a total width of 24" and a total height of 12". The legend specifies: Black Background: White.
- Sign 3:** A rectangular sign with a black border and orange background. The text "BEGIN" is centered. Dimensions include a total width of 24" and a total height of 12". The legend specifies: Black Background: Orange.
- Sign 4 (Right):** A rectangular sign with a black border and orange background. The text "END" is centered. Dimensions include a total width of 24" and a total height of 12". The legend specifies: Black Background: Orange.



Russell M. Chutkan
ParEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WORK ZONE SIGNING PLAN
NOTES & DETAILS
KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS
Wailua Cane Haul Bridge Widening
Fed. Aid Project No. BR-056-1(51)
Scale: As Noted Date: MAY 2008
SHEET No. CP18 OF CP18 SHEETS