

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2024	301	411

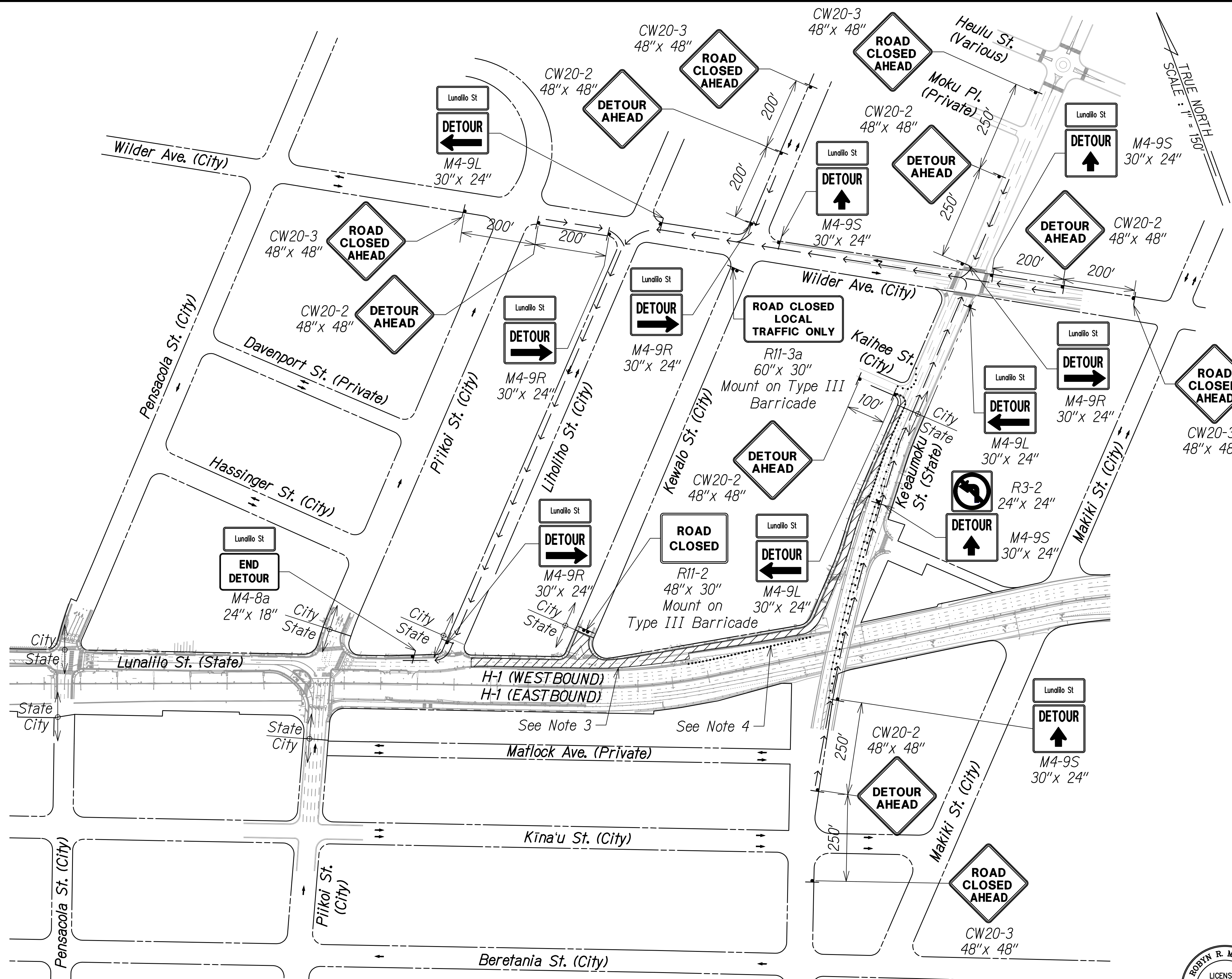
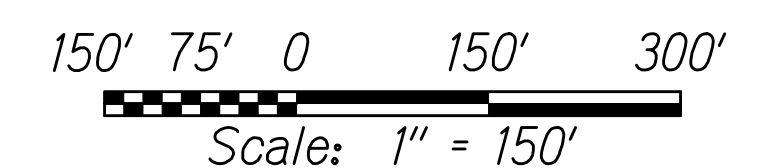
**LEGEND:**

- † Sign
- ⦿ Type III Barricade
- Cone Or Delineator
- Direction Of Traffic
- Detour Route
- ▨ Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheets F87 and F88 for Lunalilo Street Traffic Control Plans.
- See Sheet F90 for Lunalilo Street Off-Ramp Detour Plan.

**GRAPHIC SCALE:**

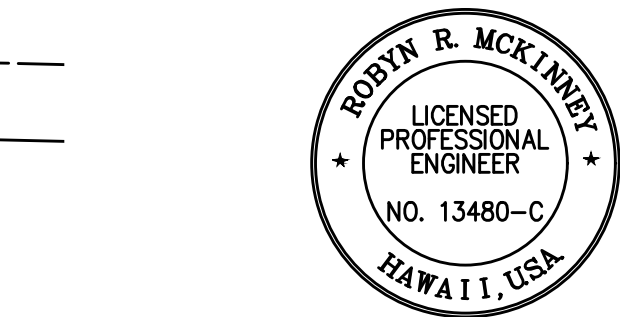


**PHASE D - STAGE 3, PHASE E & PHASE F CONSTRUCTION DETOUR**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE



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*Robyn McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR LUNALILO STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-H1-(279)R

Scale: 1" = 150' Date: November 2024

SHEET No. F89 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS\_H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F89 TCP FOR LUNALILO STREET.DWG 8/30/2024 2:04 PM



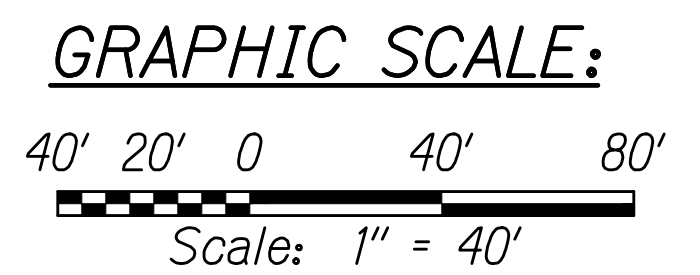
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	303	411

**LEGEND:**

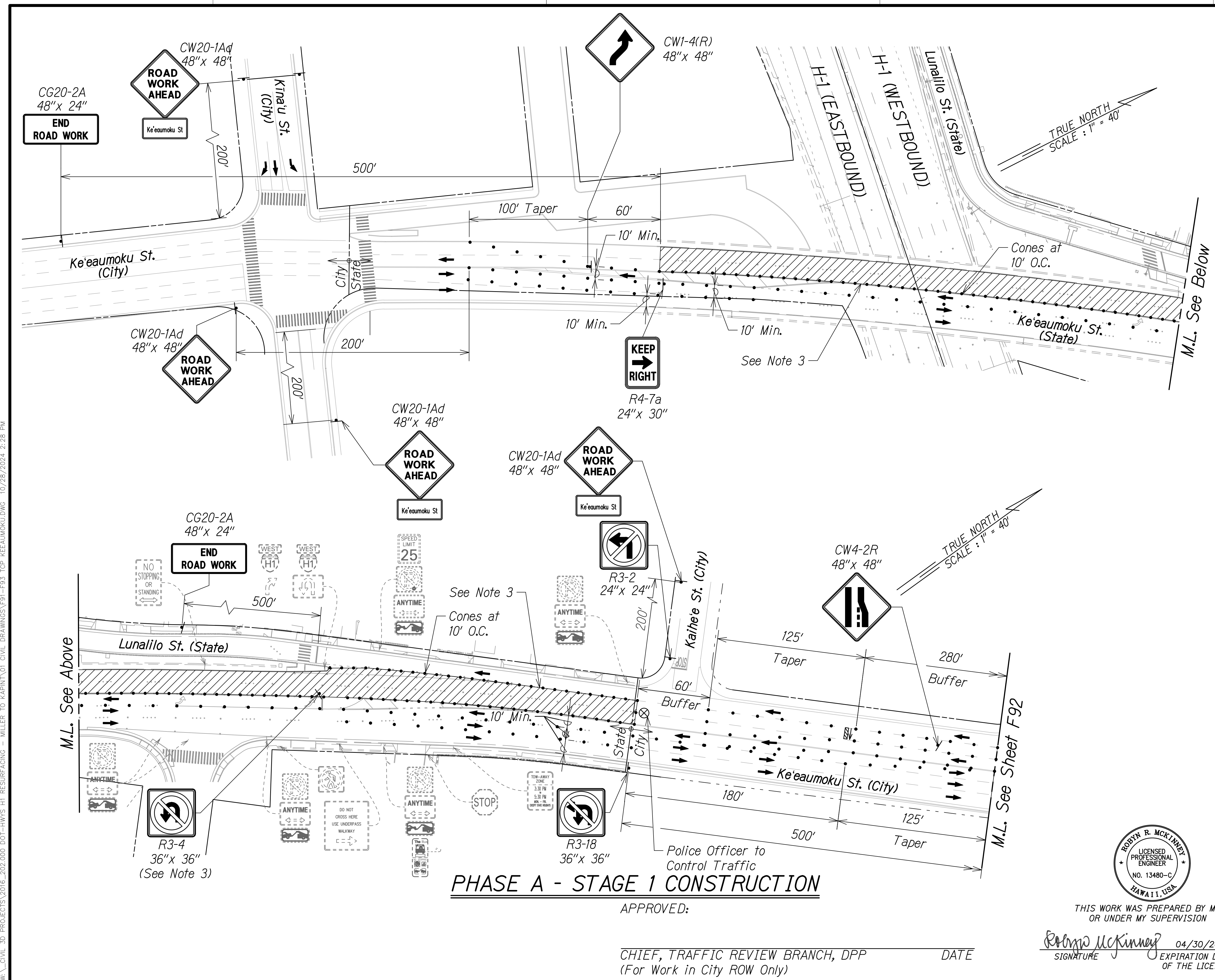
- Sign
- Cone Or Delineator
- Direction Of Traffic
- Flashing Arrow Board
- Police Officer/Flagger
- Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheet F95 for H-1 Westbound Detour Plan.

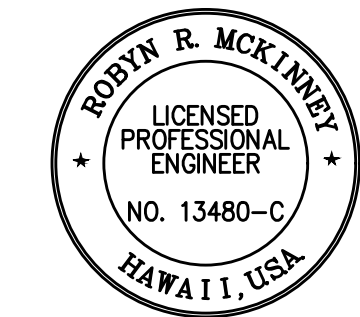


W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPUNIYOI CIVIL DRAWINGS\F91-F93\_TCP\_KEEAUMOKU.DWG - 10/28/2024 2:28 PM



**PHASE A - STAGE 1 CONSTRUCTION**

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only)



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STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

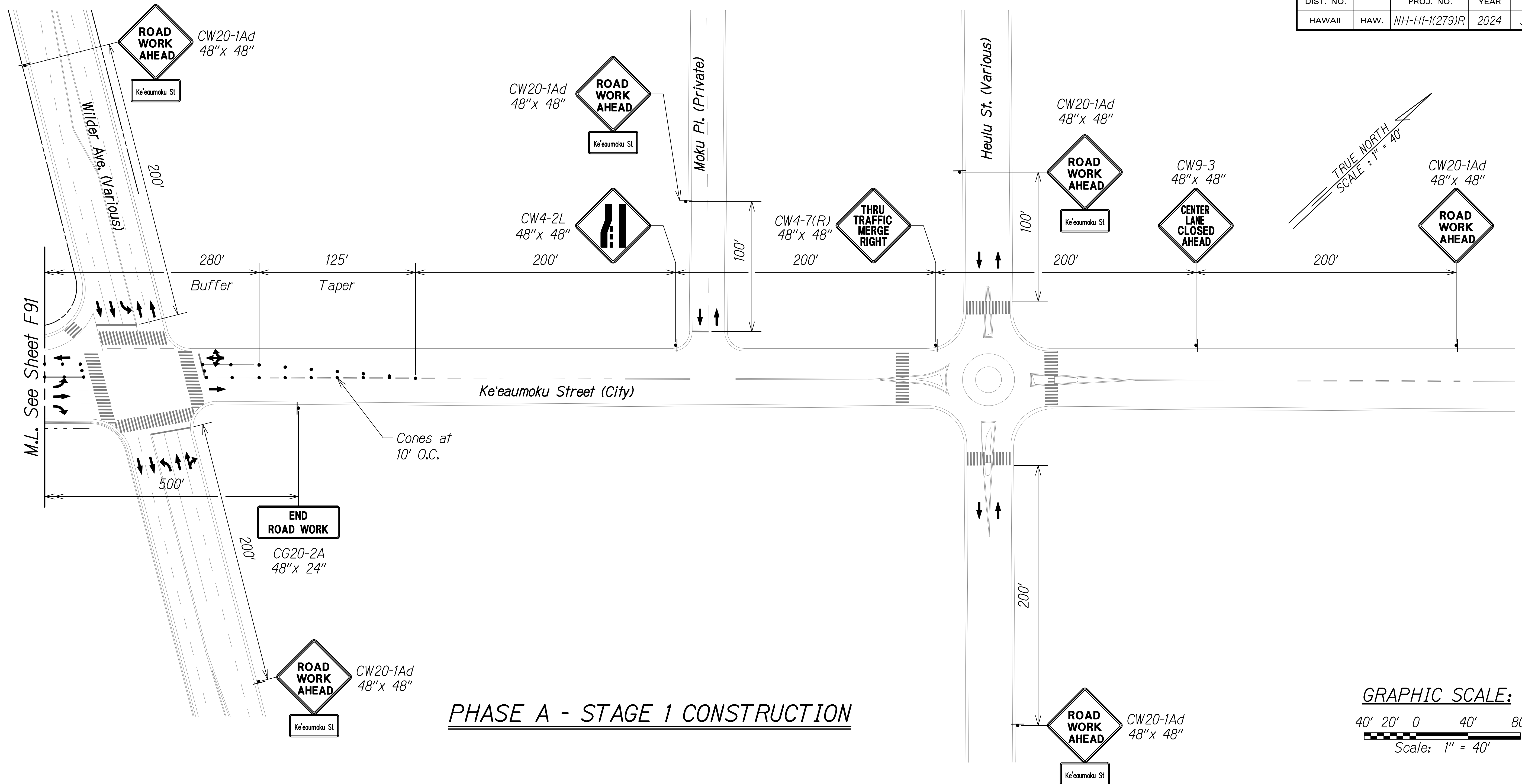
**TCP FOR KEEAUMOKU STREET**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 40' Date: November 2024

SHEET No. F91 OF 120 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)R	2024	304	411



**PHASE A - STAGE 1 CONSTRUCTION**

**LEGEND:**

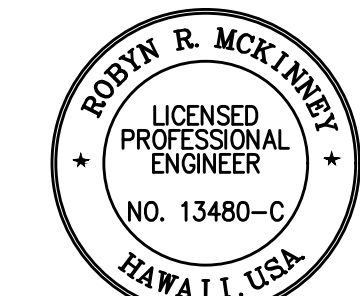
- ┆ Sign
- Cone Or Delineator
- Direction Of Traffic

**NOTES:**

1. The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
2. The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

APPROVED:

\_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only) DATE



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 OR UNDER MY SUPERVISION  
*Rodney R. McKinney* 04/30/26  
 SIGNATURE EXPIRATION DATE  
 OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

**INTERSTATE ROUTE H-1 RESURFACING**  
**Miller Pedestrian Overpass to Kapiolani Interchange**  
**Federal-Aid Project No. NH-H1-1(279)R**

Scale: 1" = 40' Date: November 2024

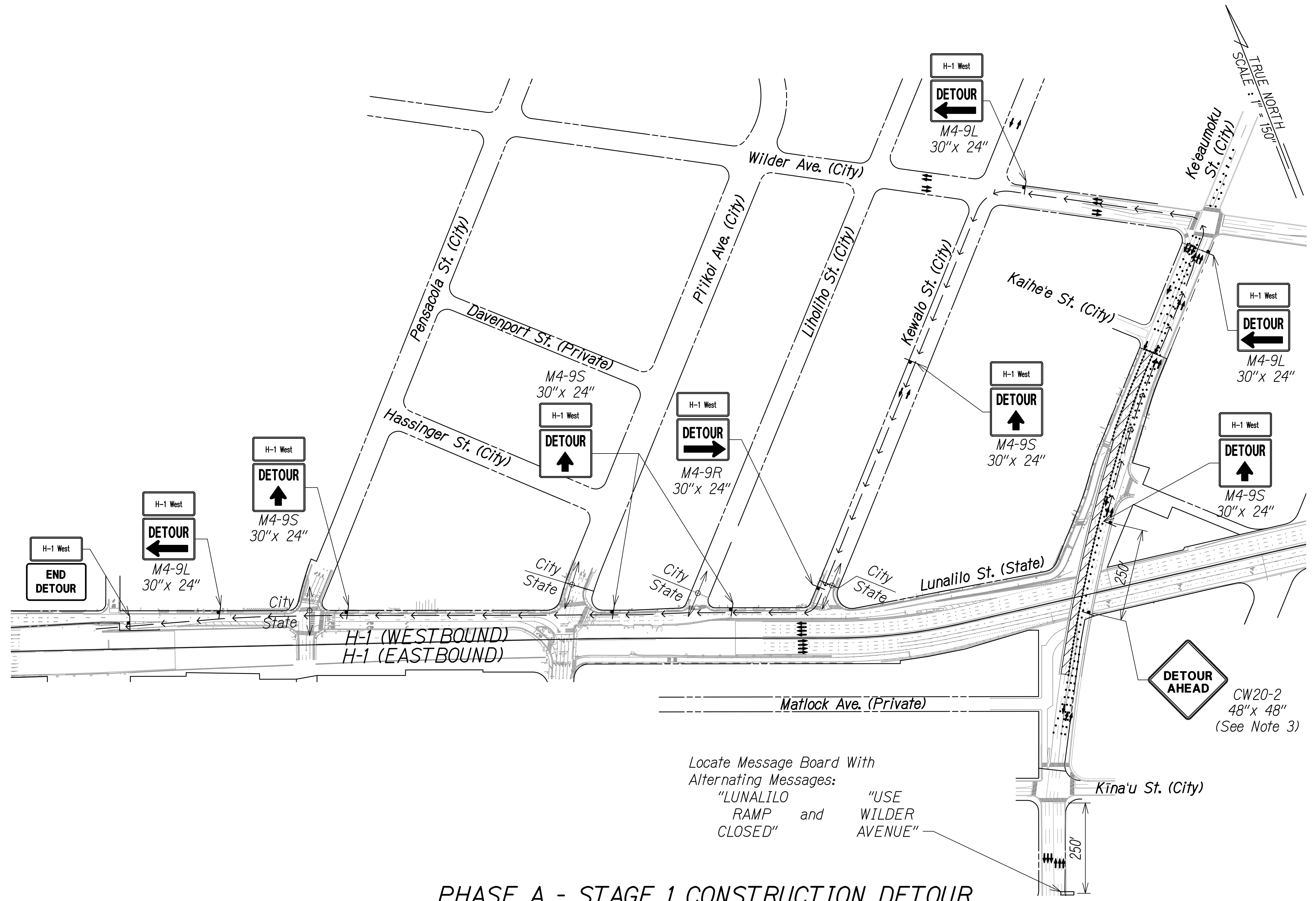
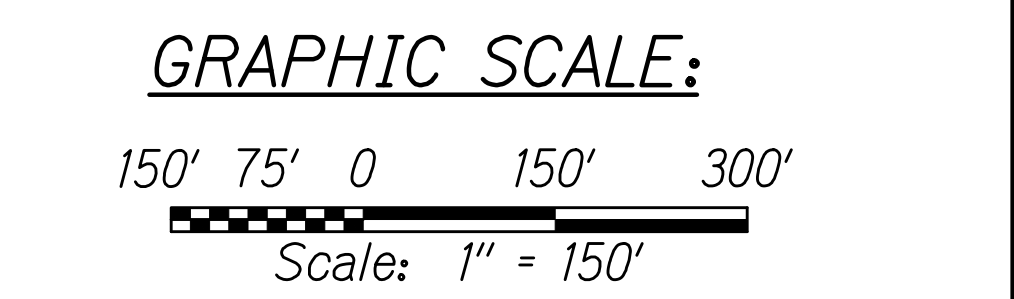
SHEET No. F92 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPANI\01\_CIVIL DRAWINGS\F91-F93\_TCP\_KEEAUMOKU.DWG 10/28/2024 2:28 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	305	411

- LEGEND:**
- ⊥ Sign
  - Cone Or Delineator
  - Direction Of Traffic
  - ▭ Message Board
  - → → Detour Route
  - ▨ Work Area

- NOTES:**
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
  - See Sheets F91 and F92 for Ke'eaumoku Street Traffic Control Plans.



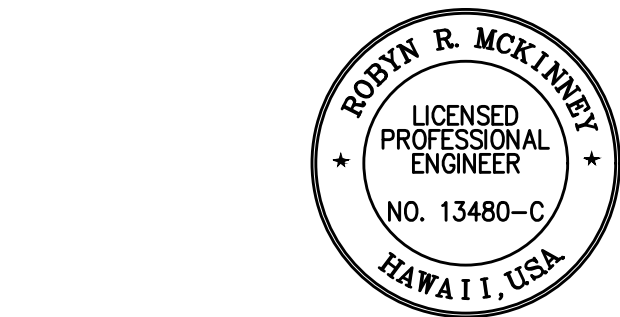
Locate Message Board With Alternating Messages:  
 "LUNALILO RAMP and CLOSED" and "USE WILDER AVENUE"

**PHASE A - STAGE 1 CONSTRUCTION DETOUR**

APPROVED:

\_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only)

DATE



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*Rodyn R. McKinney*  
 SIGNATURE

04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

**INTERSTATE ROUTE H-1 RESURFACING**  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 150' Date: November 2024

SHEET No. F93 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F91-F93\_TCP\_KEEAUMOKU.DWG - 10/28/2024 2:28 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	306	411

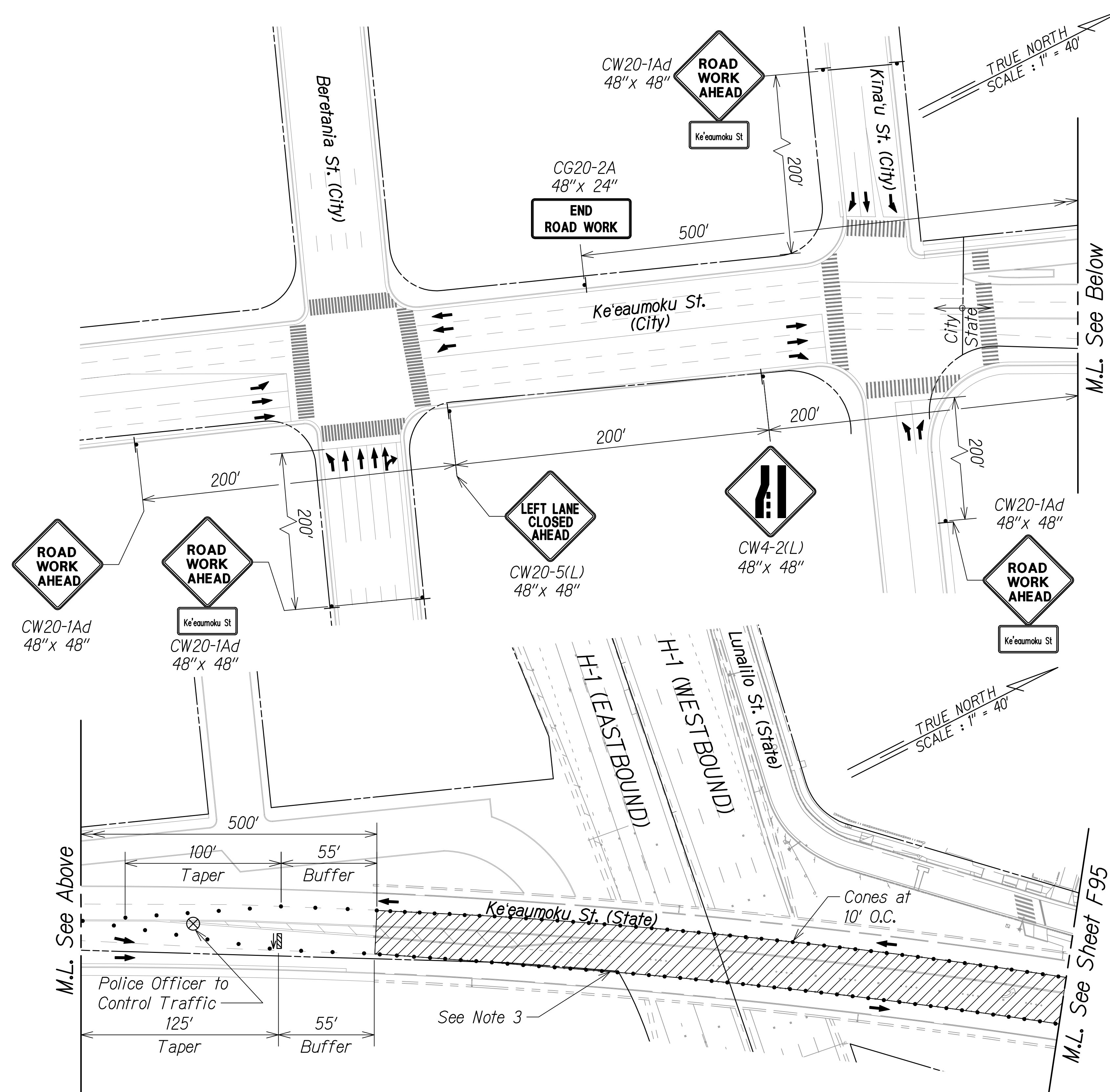
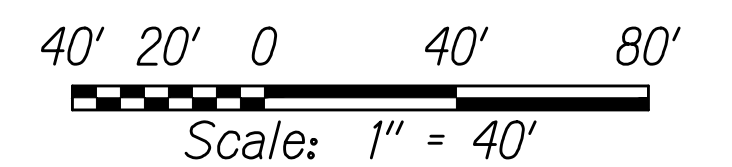
**LEGEND:**

- ⊥ Sign
- Cone Or Delineator
- Direction Of Traffic
- ⚡ Flashing Arrow Board
- ⊗ Police Officer/Flagger
- ▨ Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheet F96 for H-1 Westbound Detour Plan.

**GRAPHIC SCALE:**



**PHASE A - STAGE 2 CONSTRUCTION**

APPROVED:

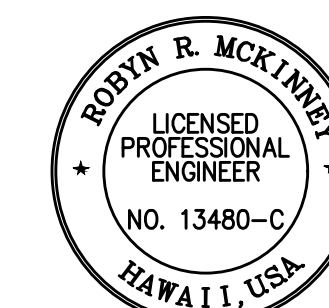
CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE

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*Rodney R. McKinney*  
SIGNATURE

04/30/26  
EXPIRATION DATE OF THE LICENSE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

**INTERSTATE ROUTE H-1 RESURFACING**  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R







Scale: 1" = 40' Date: November 2024

SHEET No. F94 OF 120 SHEETS

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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	307	411

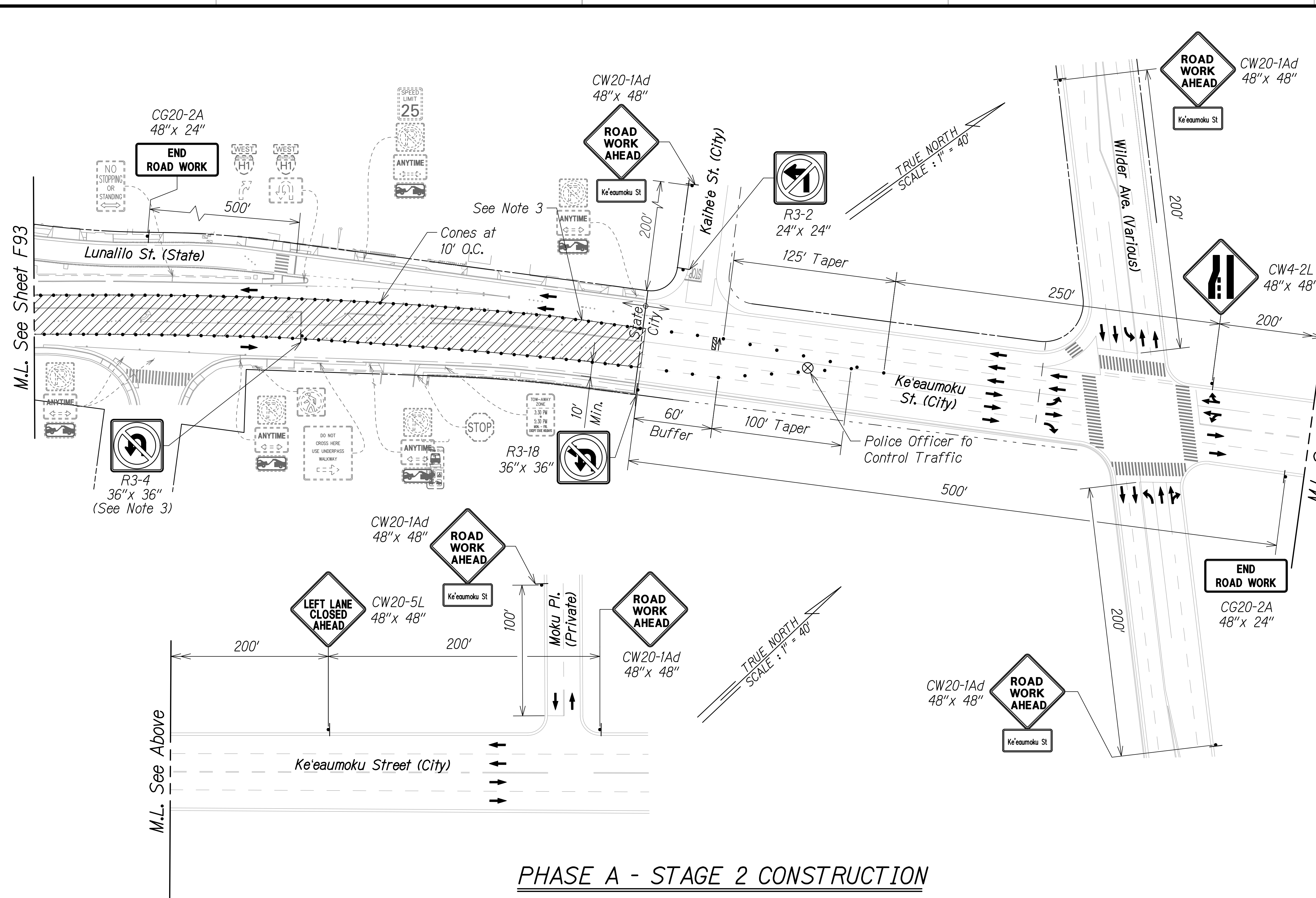
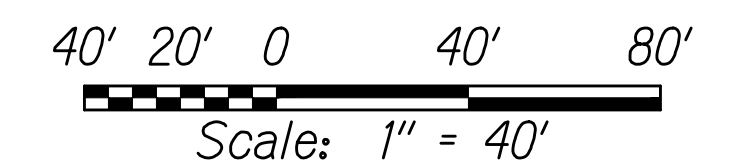
**LEGEND:**

-  Sign
-  Cone Or Delineator
-  Direction Of Traffic
-  Flashing Arrow Board
-  Police Officer/Flagger
-  Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheet F96 for H-1 Westbound Detour Plan.

**GRAPHIC SCALE:**



**PHASE A - STAGE 2 CONSTRUCTION**

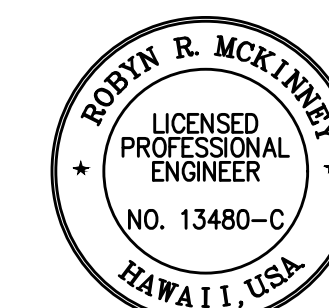
APPROVED:

\_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only)

DATE

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 OR UNDER MY SUPERVISION

*Rodney R. McKinney* 04/30/26  
 SIGNATURE EXPIRATION DATE  
 OF THE LICENSE



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 40' Date: November 2024

SHEET No. F95 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWAYS\_H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F94-F96\_TCP\_KEEAUMOKU.DWG 10/28/2024 2:40 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	308	411

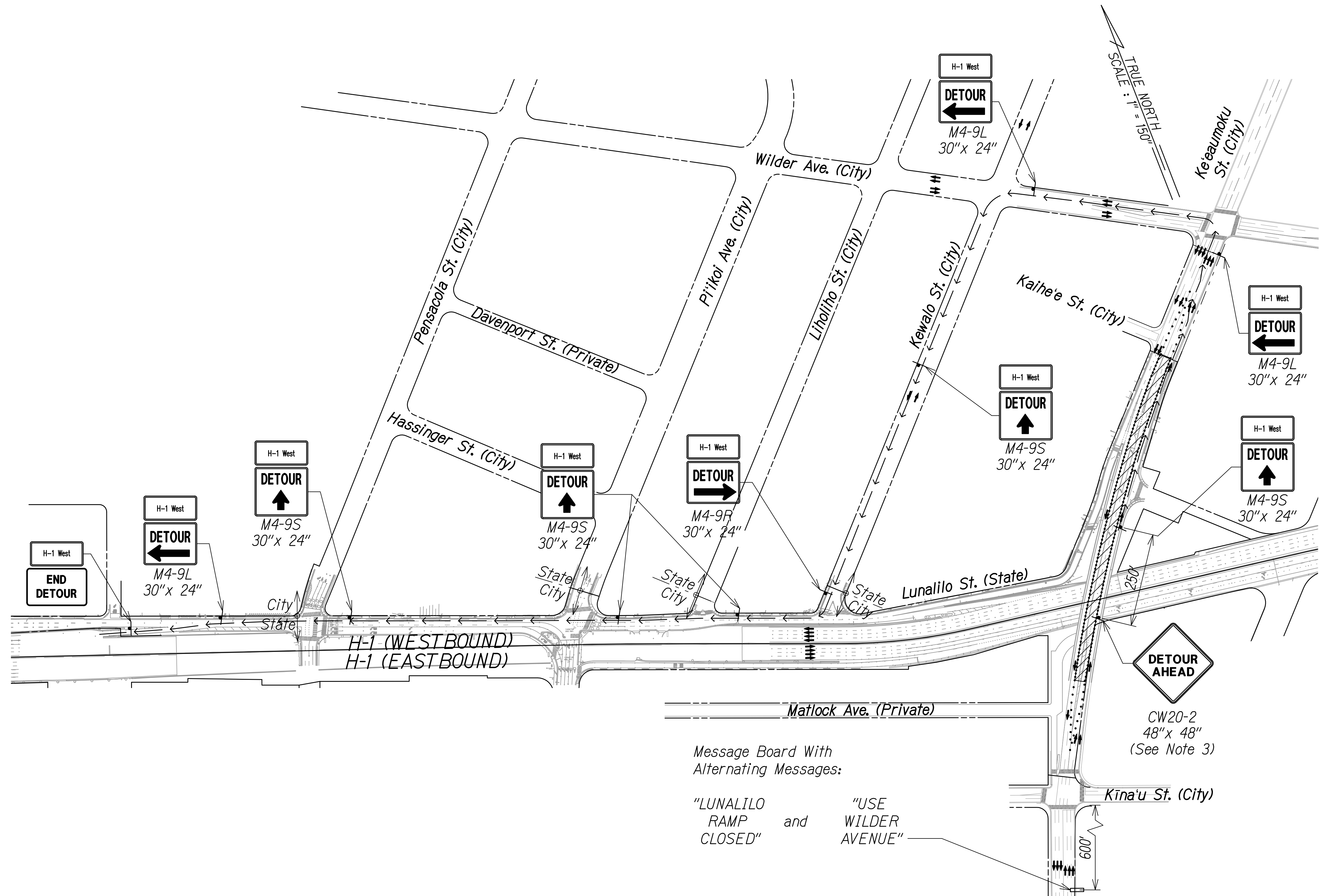
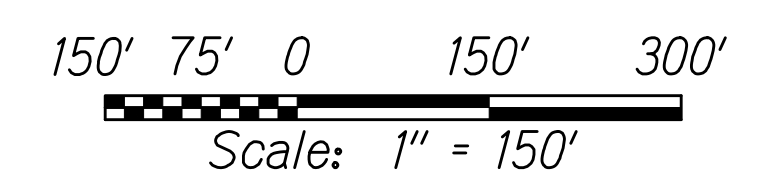
**LEGEND:**

- † Sign
- Cone Or Delineator
- Direction Of Traffic
- ▭ Message Board
- → → Detour Route
- ▨ Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheets F94 and F95 Ke'eaumoku Street Traffic Control Plans.

**GRAPHIC SCALE:**



Message Board With Alternating Messages:

"LUNALILO RAMP CLOSED" and "USE WILDER AVENUE"

**PHASE A - STAGE 2 CONSTRUCTION DETOUR**

APPROVED:

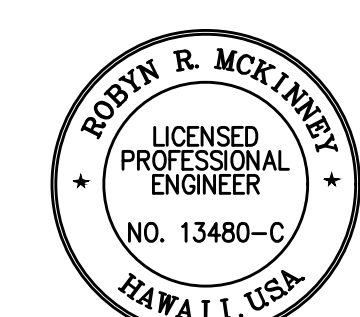
\_\_\_\_\_  
CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE

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*Rodny R. McKinney*  
SIGNATURE

04/30/26  
EXPIRATION DATE OF THE LICENSE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

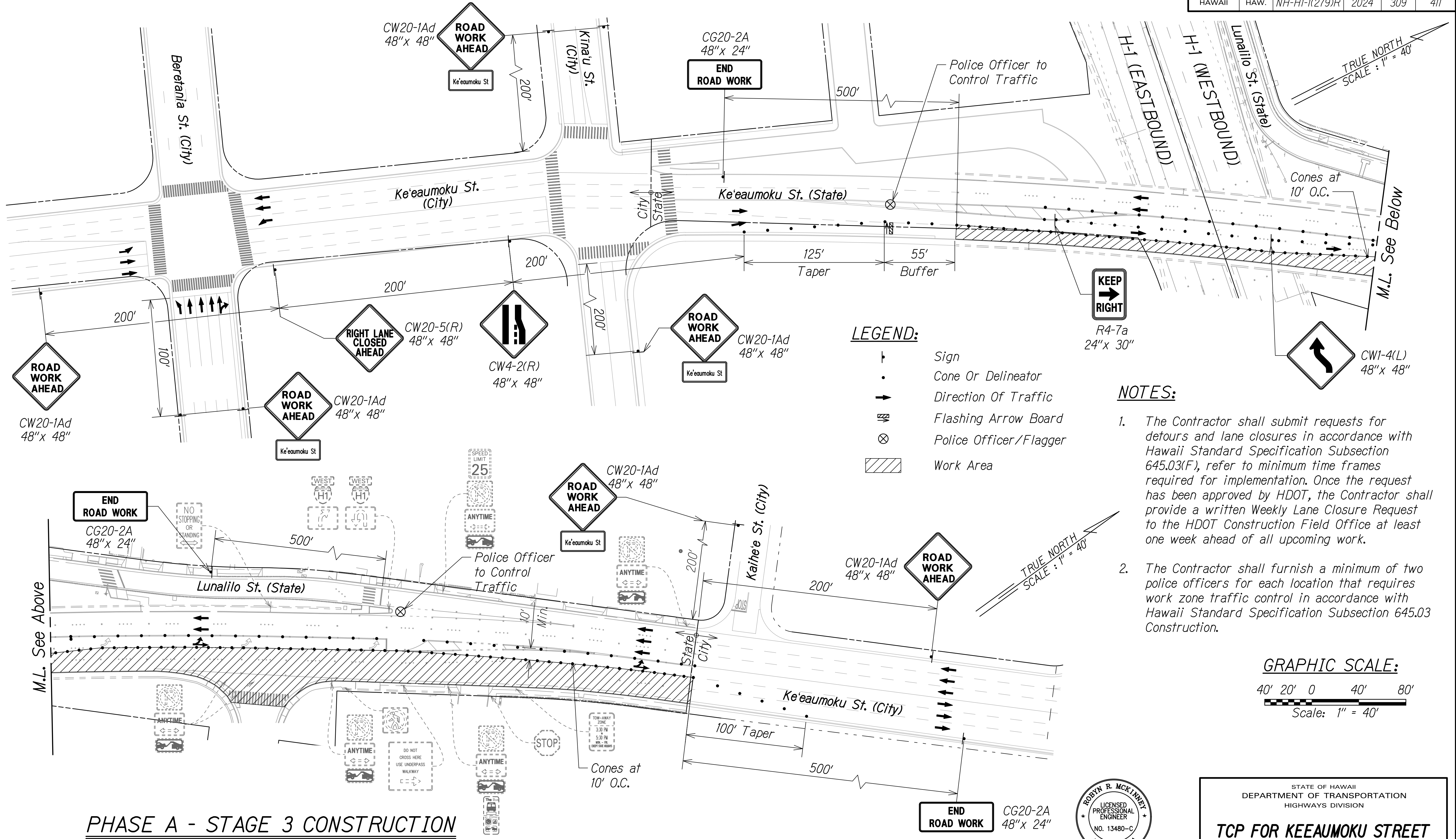
Scale: 1" = 150' Date: November 2024

SHEET No. F96 OF 120 SHEETS

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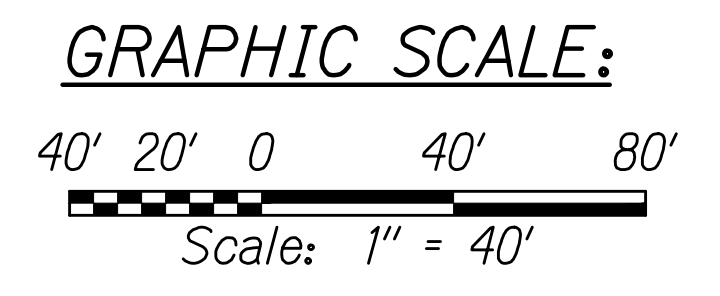


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	309	411



- LEGEND:**
- Sign
  - Cone Or Delineator
  - Direction Of Traffic
  - Flashing Arrow Board
  - Police Officer/Flagger
  - Work Area

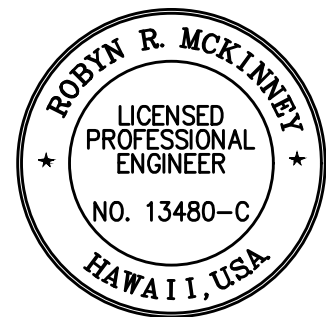
- NOTES:**
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.



**PHASE A - STAGE 3 CONSTRUCTION**

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only)

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*Robyn McKinney* 04/30/26  
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 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR KEEAUMOKU STREET**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-HI-1(279)R

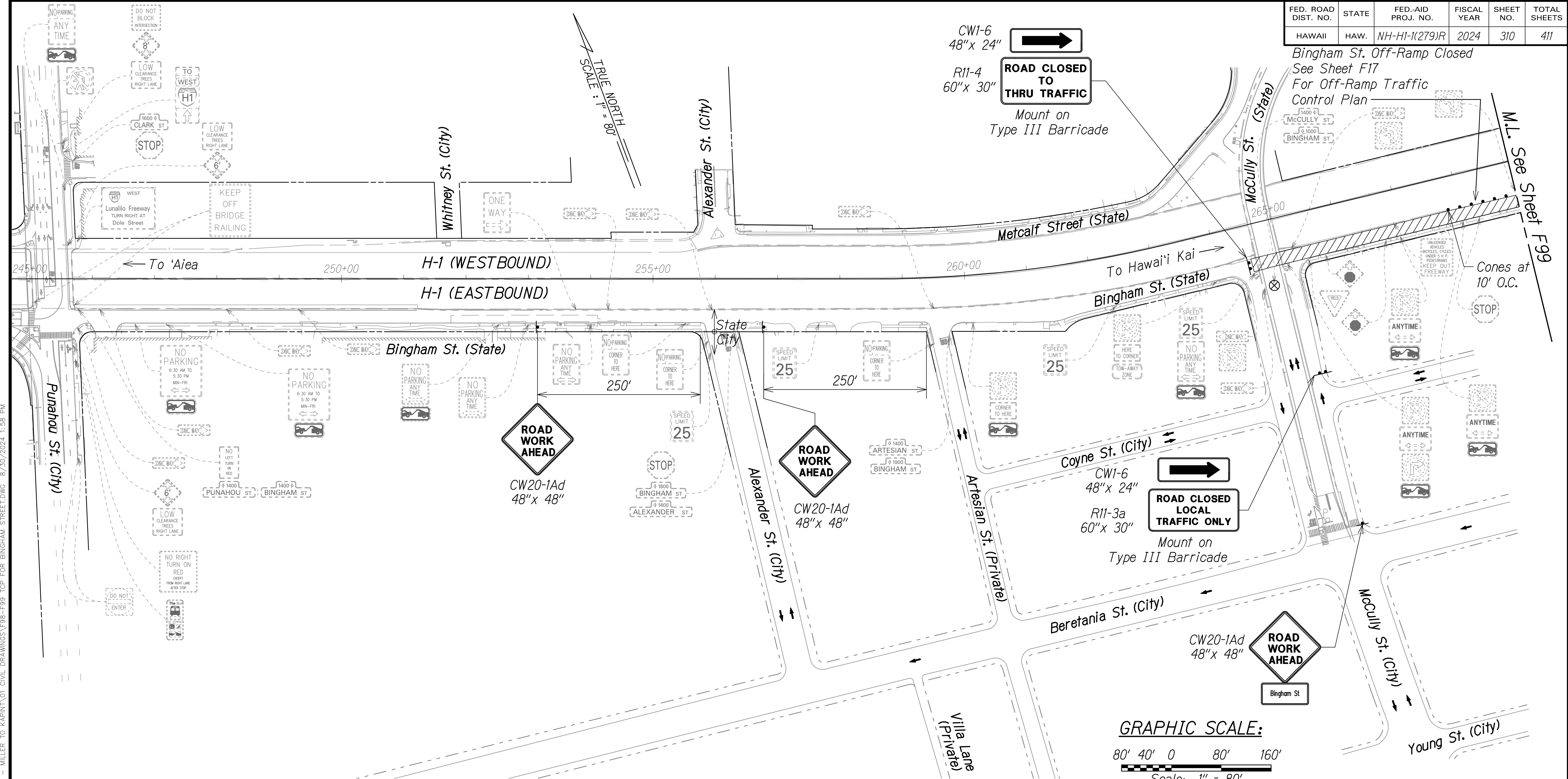
Scale: 1" = 40' Date: November 2024

SHEET No. F97 OF 120 SHEETS

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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)R	2024	310	411

Bingham St. Off-Ramp Closed  
See Sheet F17  
For Off-Ramp Traffic Control Plan



W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING-MILLER TO KAPUNUI CIVIL DRAWINGS\F98-F99\_TCP FOR BINGHAM STREET.DWG 8/30/2024 1:58 PM

**LEGEND:**

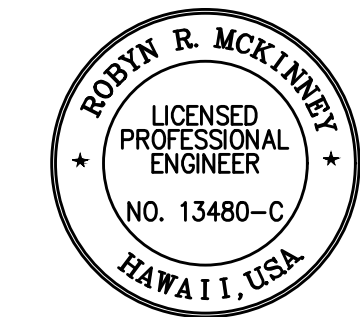
- Sign
- Cone Or Delineator
- Type III Barricade
- Direction Of Traffic
- Police Officer
- Work Area

**NOTES:**

1. The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
2. The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE  
(For Work in City ROW Only)



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OR UNDER MY SUPERVISION

*Rodyn R. McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR BINGHAM STREET**

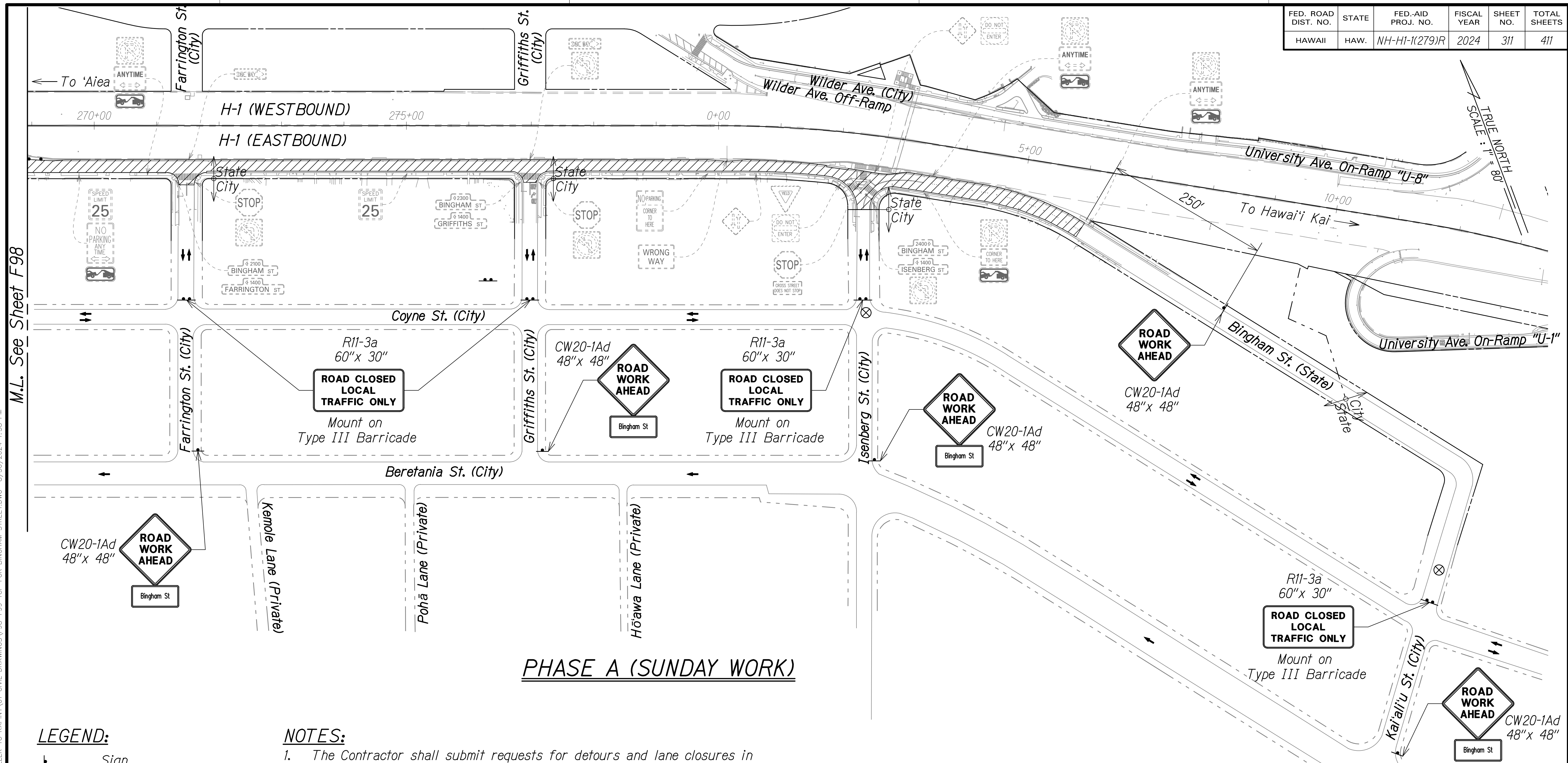
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-H1-1(279)R

Scale: 1" = 80' Date: November 2024

SHEET No. F98 OF 120 SHEETS

**PHASE A (SUNDAY WORK)**






FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)R	2024	311	411



M.L. See Sheet F98

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWAYS\_H1\_RESURFACING - MILLER TO KAPUNUI CIVIL DRAWINGS\F98-F99\_TCP FOR BINGHAM STREET.DWG 8/30/2024 11:58 PM

**LEGEND:**

-  Sign
-  Type III Barricade
-  Direction Of Traffic
-  Work Area
-  Police Officer

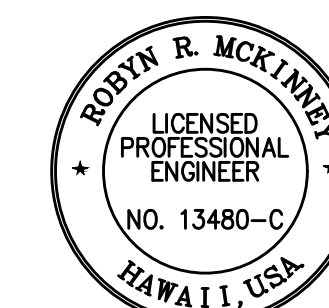
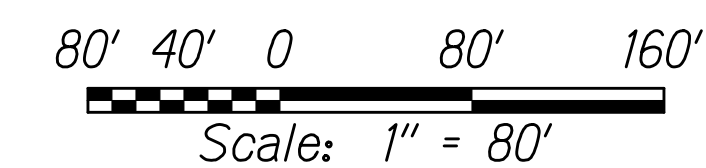
**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP \_\_\_\_\_ DATE  
(For Work in City ROW Only)

**GRAPHIC SCALE:**



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*Rodyn McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR BINGHAM STREET**






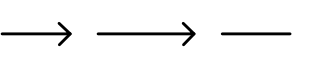
**INTERSTATE ROUTE H-1 RESURFACING**  
*Miller Pedestrian Overpass to Kapiolani Interchange*  
**Federal-Aid Project No. NH-H1-1(279)R**

Scale: 1" = 80' Date: November 2024

SHEET No. **F99** OF 120 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	312	411

**LEGEND:**

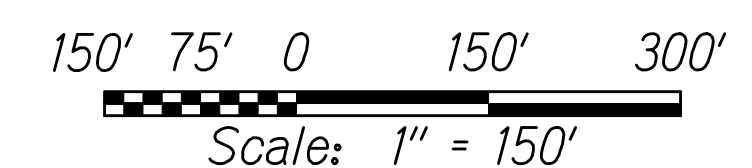
-  Sign
-  Type III Barricade
-  Work Area
-  Police Officer
-  Direction Of Traffic
-  Detour Route

**NOTES:**

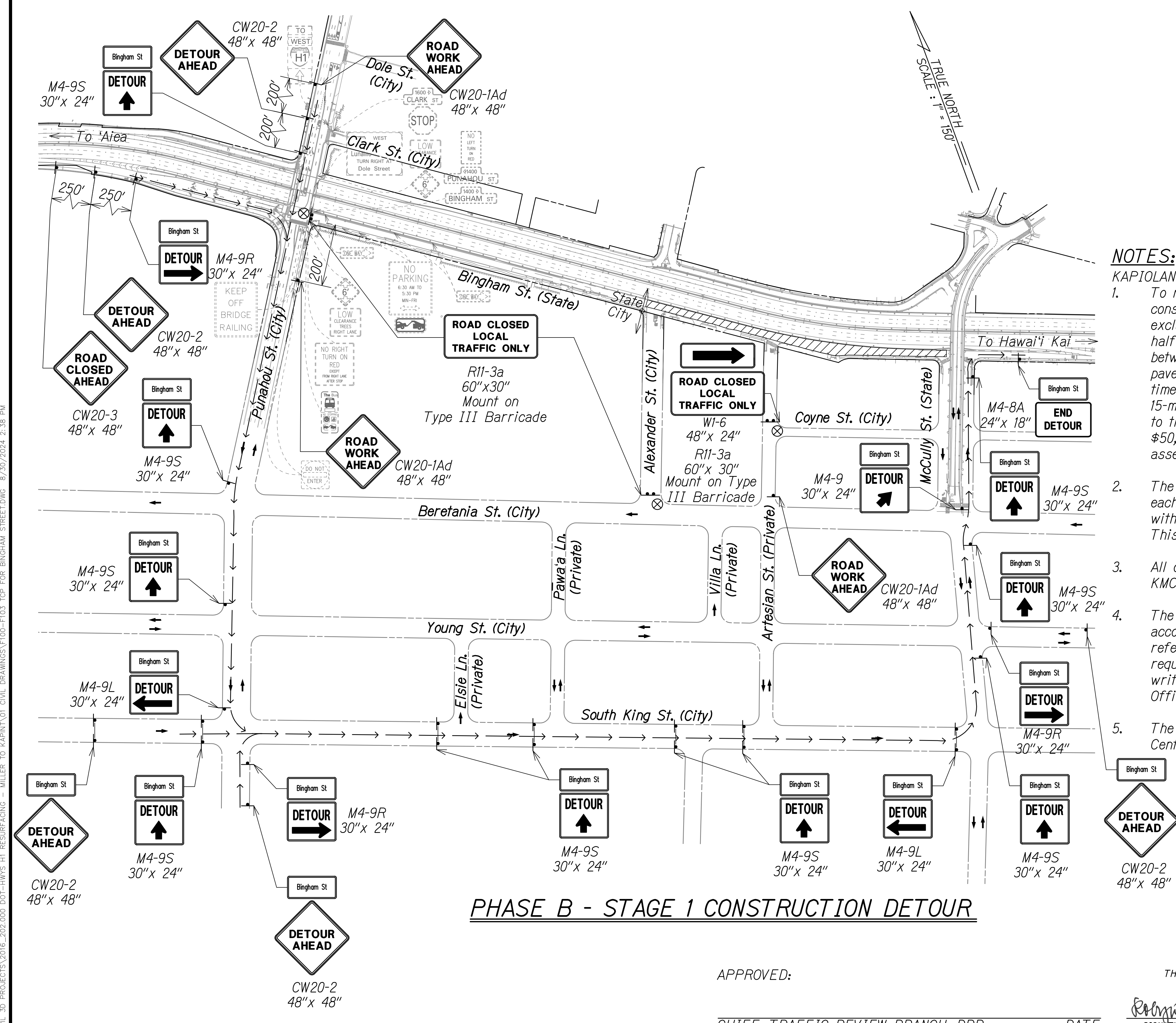
KAPIOLANI MEDICAL CENTER (KMC)

- To maintain traffic circulation to and from KMC during the construction hours of 8:30 pm to 4:30 am, Sundays to Thursdays, excluding holidays, the pavement reconstruction work shall be done half-at-a-time with a 10' minimum lane (coned at 10' o.c.) provided between Punahou and Alexander Streets at all times. The full-width pavement along Bingham Street shall be provided to KMC at all other times. The engineer will assess liquidated damages of \$5,000 for every 15-minute increment, or any portion thereof, for every lane not opened to the public on time. The maximum amount assessed per day shall be \$50,000. The engineer will decide the time and liquidated damages assessed.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction. This cost will be paid for under lump sum item 645.0100.
- All other costs associated with the phasing and Traffic control for KMC shall be incidental to the various contract items.
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall coordinate Lane Closure with Kapiolani Medical Center.

**GRAPHIC SCALE:**



W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F100-F103\_TCP FOR BINGHAM STREET.DWG - 8/30/2024 2:38 PM

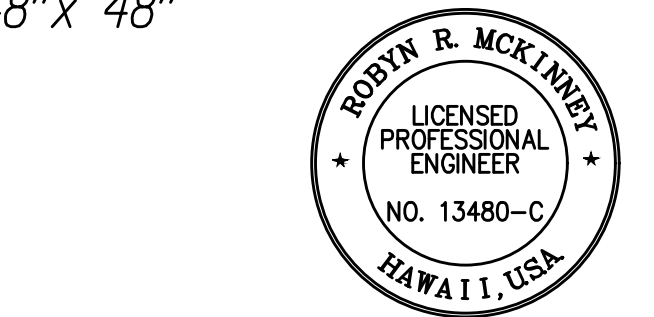


**PHASE B - STAGE 1 CONSTRUCTION DETOUR**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE



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*Rodney R. McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION



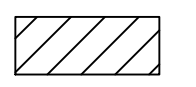



**TCP FOR BINGHAM STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 150' Date: November 2024  
SHEET No. F100 OF 120 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	313	411

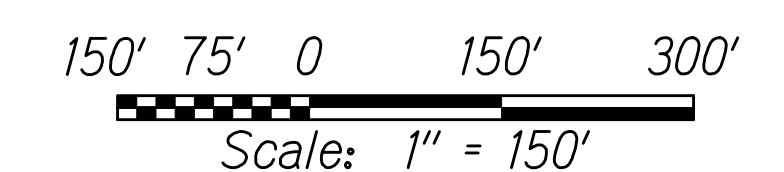
**LEGEND:**

-  Sign
-  Type III Barricade
-  Work Area
-  Police Officer
-  Direction Of Traffic
-  Detour Route

**NOTES:**

- KAPIOLANI MEDICAL CENTER (KMC)**
- To maintain traffic circulation to and from KMC during the construction hours of 8:30 pm to 4:30 am, Sundays to Thursdays, excluding holidays, the pavement reconstruction work shall be done half-at-a-time with a 10' minimum lane (coned at 10' o.c.) provided between Punahou and Alexander Streets at all times. The full-width pavement along Bingham Street shall be provided to KMC at all other times. The engineer will assess liquidated damages of \$5,000 for every 15-minute increment, or any portion thereof, for every lane not opened to the public on time. The maximum amount assessed per day shall be \$50,000. The engineer will decide the time and liquidated damages assessed.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction. This cost will be paid for under lump sum item 645.0100.
  - All other costs associated with the phasing and Traffic control for KMC shall be incidental to the various contract items.
  - The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall coordinate Lane Closure with Kapiolani Medical Center.

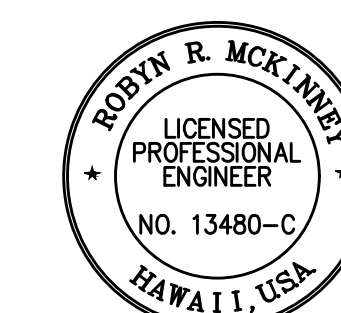
**GRAPHIC SCALE:**



**PHASE B - STAGE 2 CONSTRUCTION DETOUR**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE  
(For Work in City ROW Only)



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*Rodyn McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR BINGHAM STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 150' Date: November 2024  
SHEET No. F101 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F100-F103\_TCP FOR BINGHAM STREET.DWG - 8/30/2024 2:38 PM

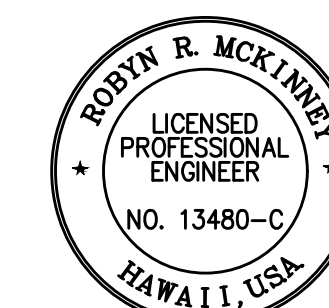
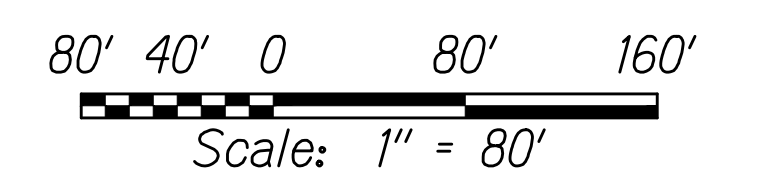
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	314	411

**NOTES:**

**KAPIOLANI MEDICAL CENTER (KMC)**

- To maintain traffic circulation to and from KMC during the construction hours of 8:30 pm to 4:30 am, Sundays to Thursdays, excluding holidays, the pavement reconstruction work shall be done half-at-a-time with a 10' minimum lane (coned at 10' o.c.) provided between Punahou and Alexander Streets at all times. The full-width pavement along Bingham Street shall be provided to KMC at all other times. The engineer will assess liquidated damages of \$5,000 for every 15-minute increment, or any portion thereof, for every lane not opened to the public on time. The maximum amount assessed per day shall be \$50,000. The engineer will decide the time and liquidated damages assessed.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- All other costs associated with the phasing and Traffic control for KMC shall be incidental to the various contract items.
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall coordinate Lane Closure with Kapiolani Medical Center.
- See Sheets F100 and F101 for Bingham Street Detour Plans.
- See Sheets F103 for Punahou Street Detour Plan.

**GRAPHIC SCALE:**



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*Rodney McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

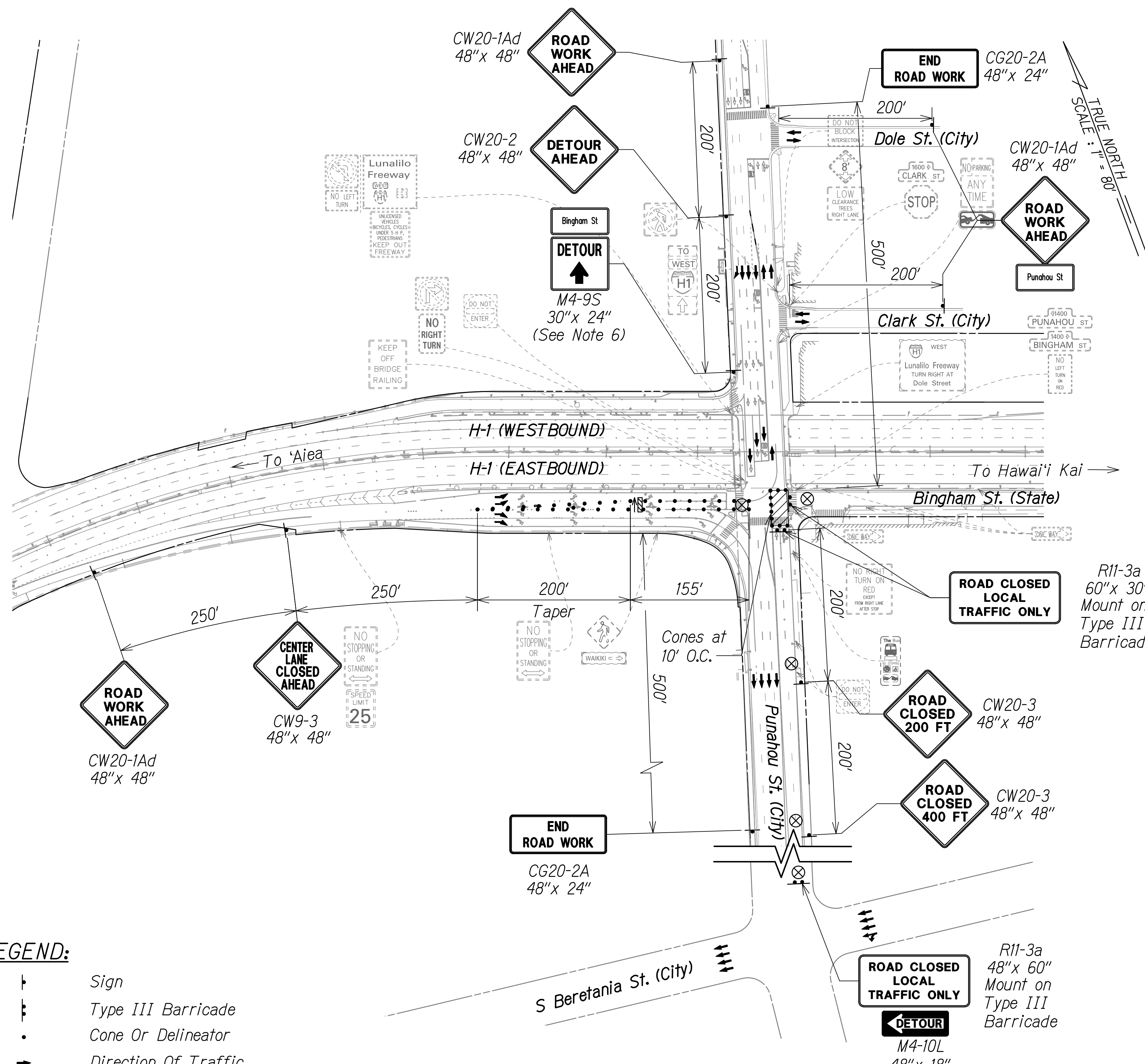
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR BINGHAM STREET**

**INTERSTATE ROUTE H-1 RESURFACING**  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 80' Date: November 2024  
SHEET No. F102 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS\_H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F100-F103 TCP FOR BINGHAM STREET.DWG 8/30/2024 2:38 PM



**PHASE B - STAGE 3 CONSTRUCTION**

APPROVED:







CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE  
(For Work in City ROW Only)

**LEGEND:**

- † Sign
- ||| Type III Barricade
- Cone Or Delineator
- Direction Of Traffic
- ⚡ Flashing Arrow Board
- ⊗ Police Officer/Flagger
- ▨ Work Area

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	315	411

**LEGEND:**

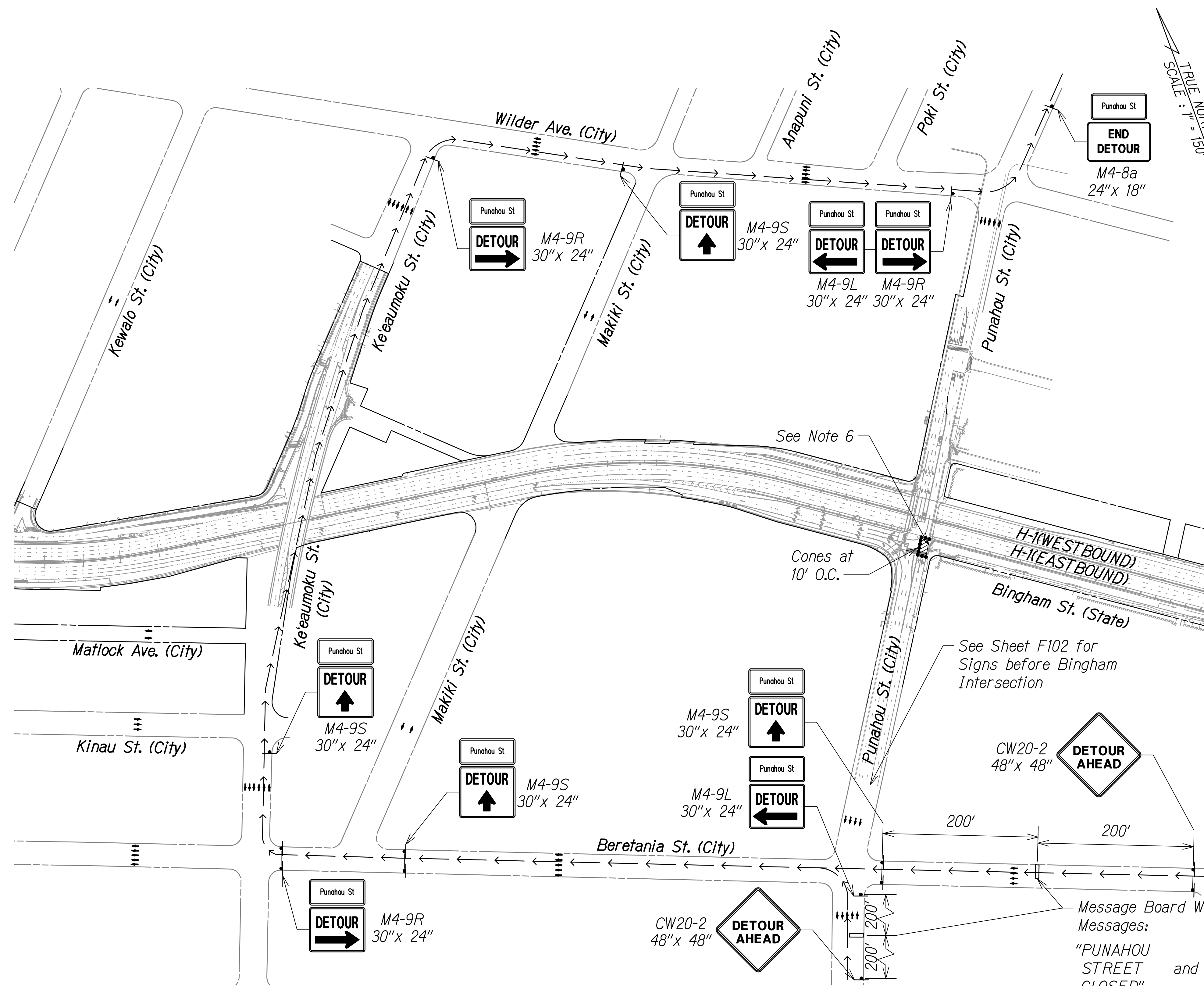
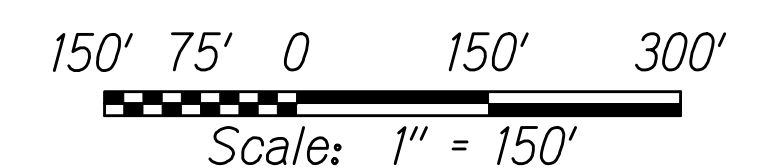
-  Sign
-  Cone Or Delineator
-  Direction Of Traffic
-  Message Board
-  Detour Route
-  Work Area

**NOTES:**

**KAPIOLANI MEDICAL CENTER (KMC)**

- To maintain traffic circulation to and from KMC during the construction hours of 9:00 am to 3:00 pm, Mondays to Fridays, excluding holidays, the pavement reconstruction work shall be done half-at-a-time with a 10' minimum lane (coned at 10' o.c.) provided between Punahou and Alexander Streets at all times. The full-width pavement along Bingham Street shall be provided to KMC at all other times. The engineer will assess liquidated damages of \$5,000 for every 15-minute increment, or any portion thereof, for every lane not opened to the public on time. The maximum amount assessed per day shall be \$50,000. The engineer will decide the time and liquidated damages assessed.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction. This cost will be paid for under lump sum item 645.0100.
- All other costs associated with the phasing and Traffic control for KMC shall be incidental to the various contract items.
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall coordinate Lane Closure with Kapiolani Medical Center.
- See Sheet F102 for Bingham Street Traffic Control Plan.

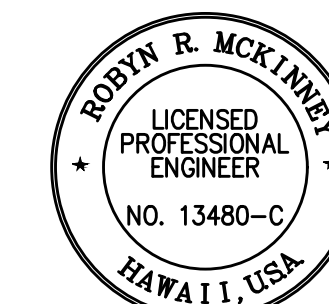
**GRAPHIC SCALE:**



**PHASE B - STAGE 3 CONSTRUCTION DETOUR**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE  
(For Work in City ROW Only)



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*Rodney R. McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

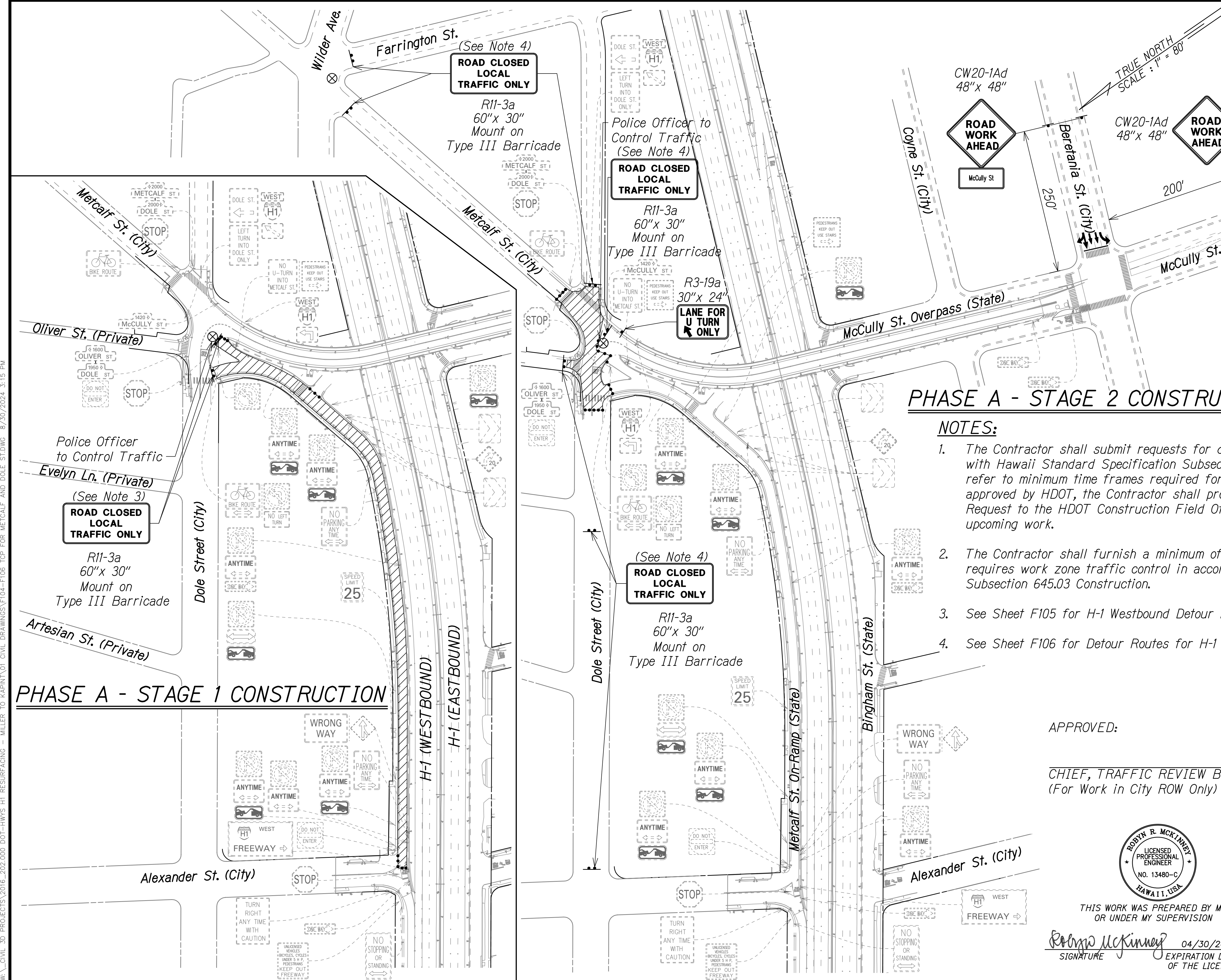
**TCP FOR BINGHAM STREET**

**INTERSTATE ROUTE H-1 RESURFACING**  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 150' Date: November 2024  
SHEET No. F103 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWAYS\_H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F100-F103 TCP FOR BINGHAM STREET.DWG - 8/30/2024 2:38 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	316	411



**LEGEND:**

- Sign
- Type III Barricade
- Cone Or Delineator
- Direction Of Traffic
- Police Officer
- Work Area

**PHASE A - STAGE 2 CONSTRUCTION**

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheet F105 for H-1 Westbound Detour Plan.
- See Sheet F106 for Detour Routes for H-1 Westbound, Dole Street and Metcalf Street.

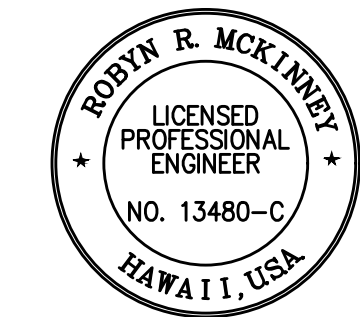
**GRAPHIC SCALE:**

Scale: 1" = 80'

**PHASE A - STAGE 1 CONSTRUCTION**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP \_\_\_\_\_ DATE \_\_\_\_\_  
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*Rodney McKinney* 04/30/26  
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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR METCALF STREET AND DOLE STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 80' Date: November 2024

SHEET No. F104 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS\_H1\_RESURFACING - MILLER TO KAPANIYOI CIVIL DRAWINGS\F104-F106 TOP FOR METCALF AND DOLE STD.DWG 8/30/2024 3:15 PM



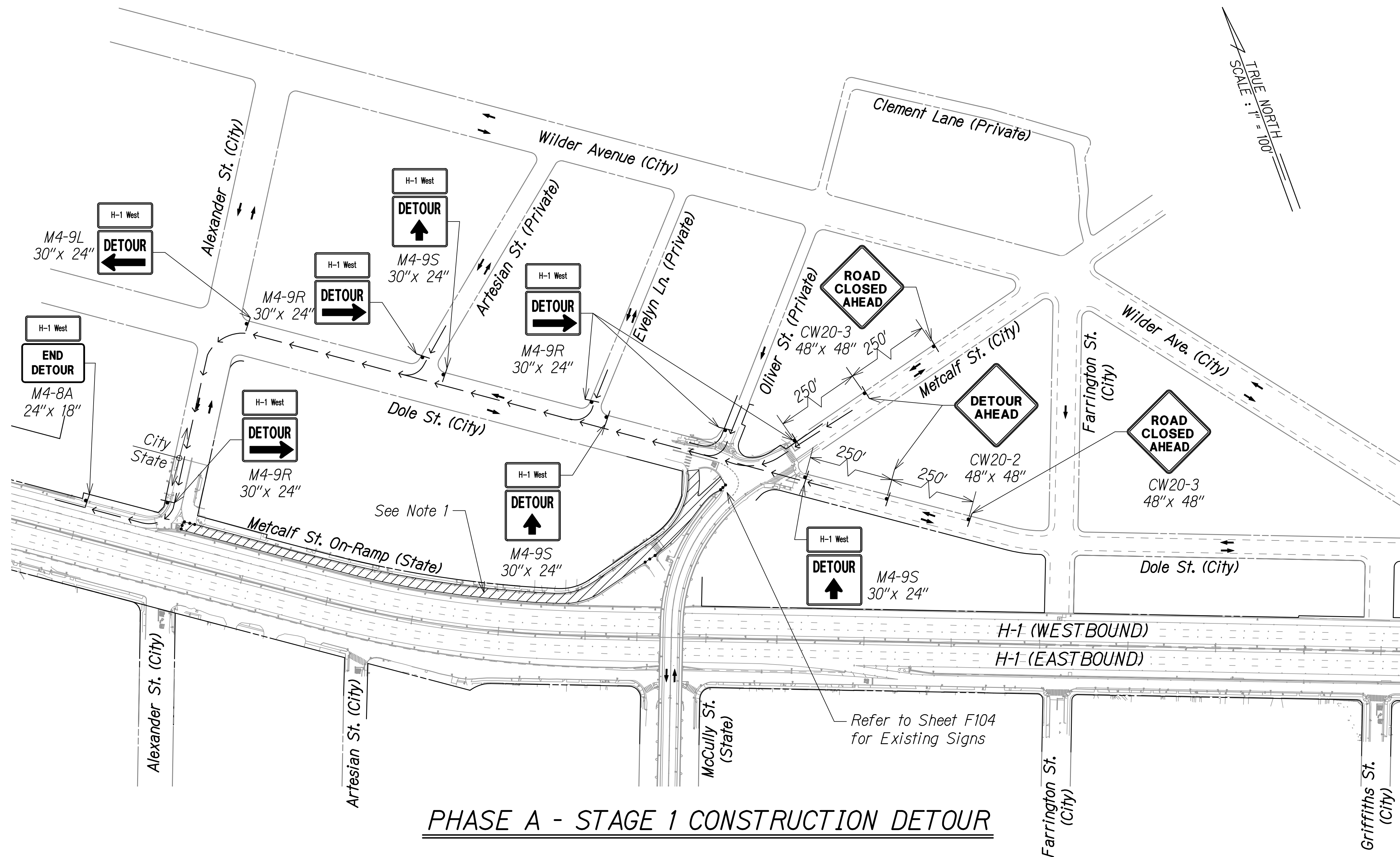
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2024	317	411

**LEGEND:**

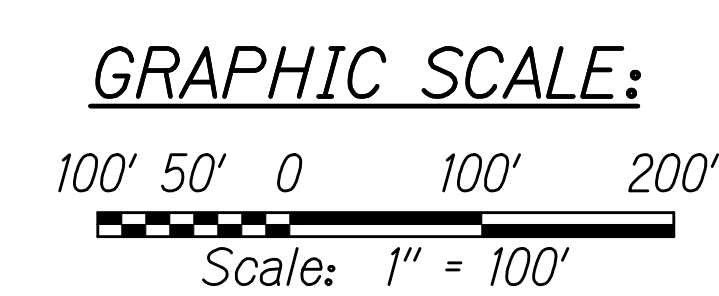
- ⊥ Sign
- Cone or Delineator
- ▨ Work Area
- Direction Of Traffic
- → → Detour Route

**NOTE:**

1. See Sheet F104 for Metcalf Street and Dole Street Traffic Control Plan.



**PHASE A - STAGE 1 CONSTRUCTION DETOUR**



APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP \_\_\_\_\_ DATE \_\_\_\_\_  
(For Work in City ROW Only)

RODNY R. MCKINNEY  
LICENSED PROFESSIONAL ENGINEER  
NO. 13480-C  
HAWAII, USA

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*Rodny McKinney* 04/30/26  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR METCALF STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-H1-(279)R

Scale: 1" = 100' Date: November 2024

SHEET No. F105 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F104-F106 TCP FOR METCALF AND DOLE STD.WG. 8/30/2024 3:15 PM

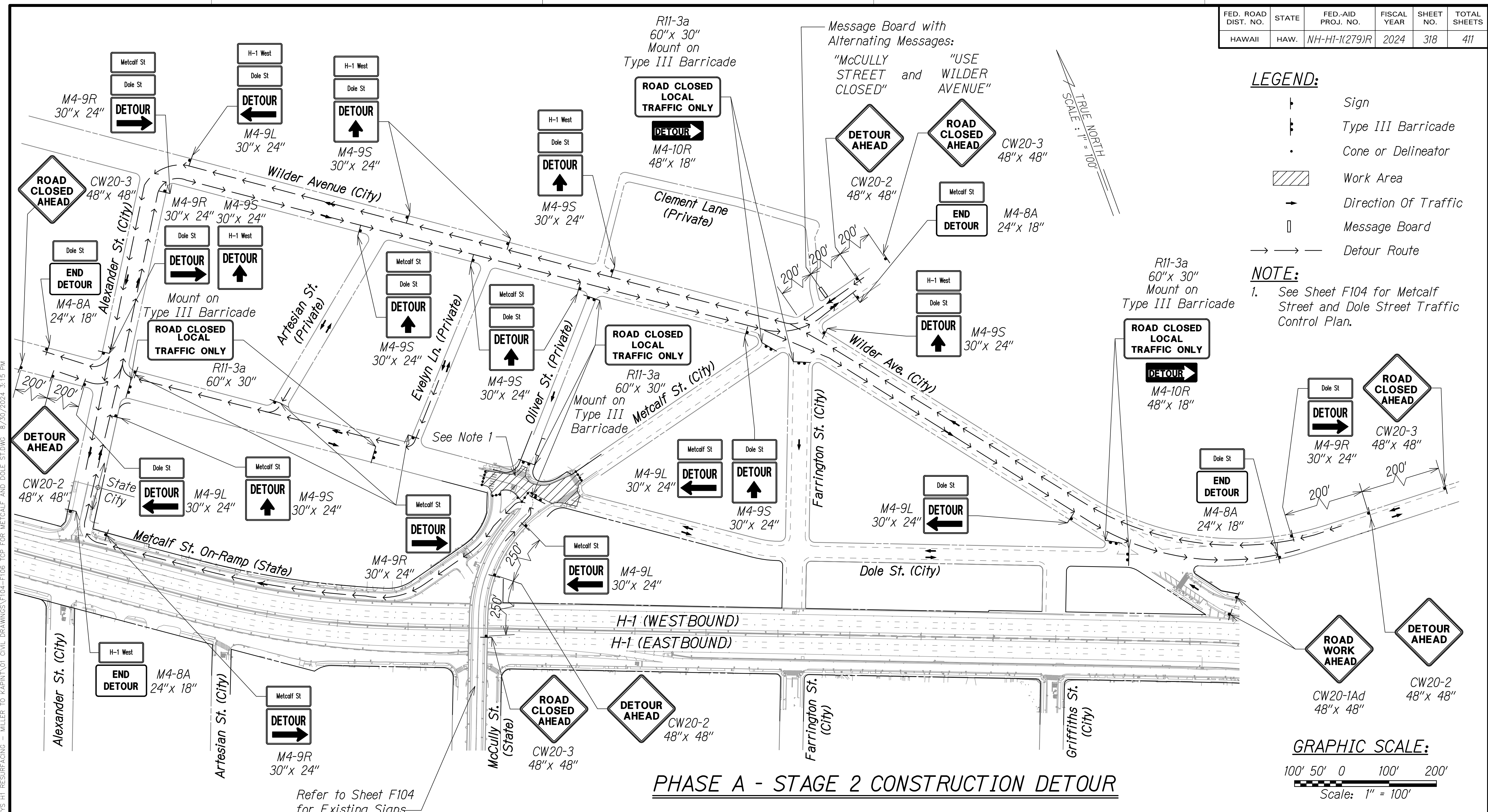
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	318	411

**LEGEND:**

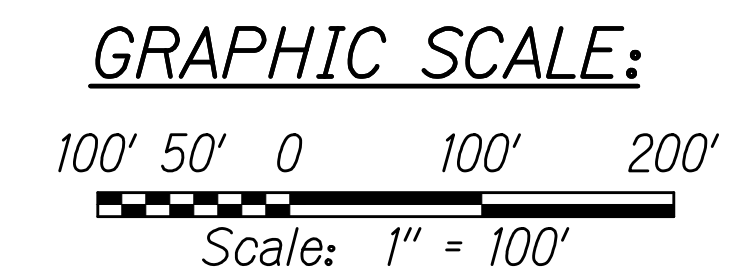
- ⊥ Sign
- ⊥ Type III Barricade
- Cone or Delineator
- ▨ Work Area
- Direction Of Traffic
- ▭ Message Board
- Detour Route

**NOTE:**

- See Sheet F104 for Metcalf Street and Dole Street Traffic Control Plan.

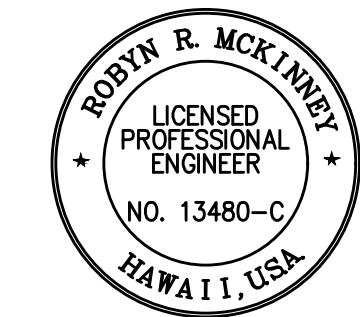


**PHASE A - STAGE 2 CONSTRUCTION DETOUR**



APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP \_\_\_\_\_ DATE \_\_\_\_\_  
(For Work in City ROW Only)



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*Rodyn McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

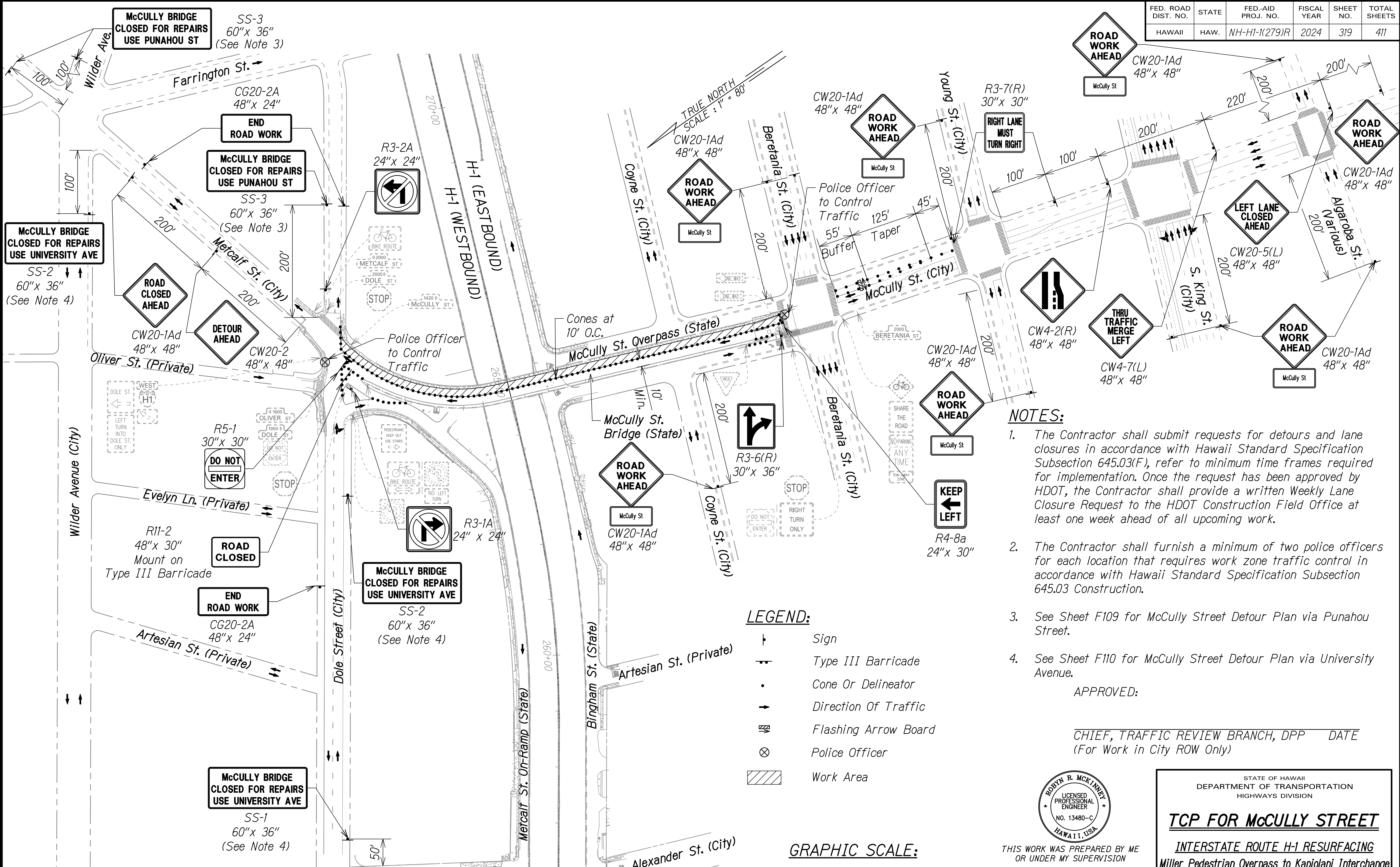
**TCP FOR METCALF STREET AND DOLE STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 100' Date: November 2024  
SHEET No. F106 OF 120 SHEETS

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPANIYOI CIVIL DRAWINGS\F104-F106 TCP FOR METCALF AND DOLE ST.DWG. 8/30/2024 3:15 PM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2024	319	411



**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- See Sheet F109 for McCully Street Detour Plan via Punahou Street.
- See Sheet F110 for McCully Street Detour Plan via University Avenue.

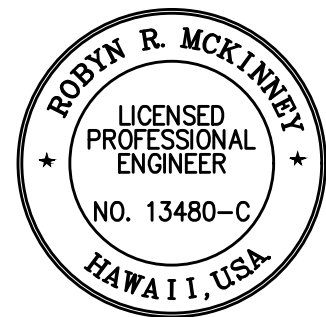
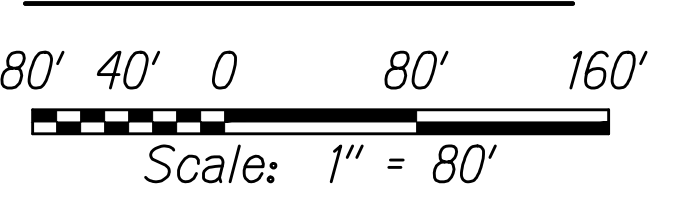
APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE  
(For Work in City ROW Only)

**LEGEND:**

- Sign
- Type III Barricade
- Cone Or Delineator
- Direction Of Traffic
- Flashing Arrow Board
- Police Officer
- Work Area

**GRAPHIC SCALE:**



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 SIGNATURE: *Rodyn R. McKinney* 04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR McCULLY STREET**

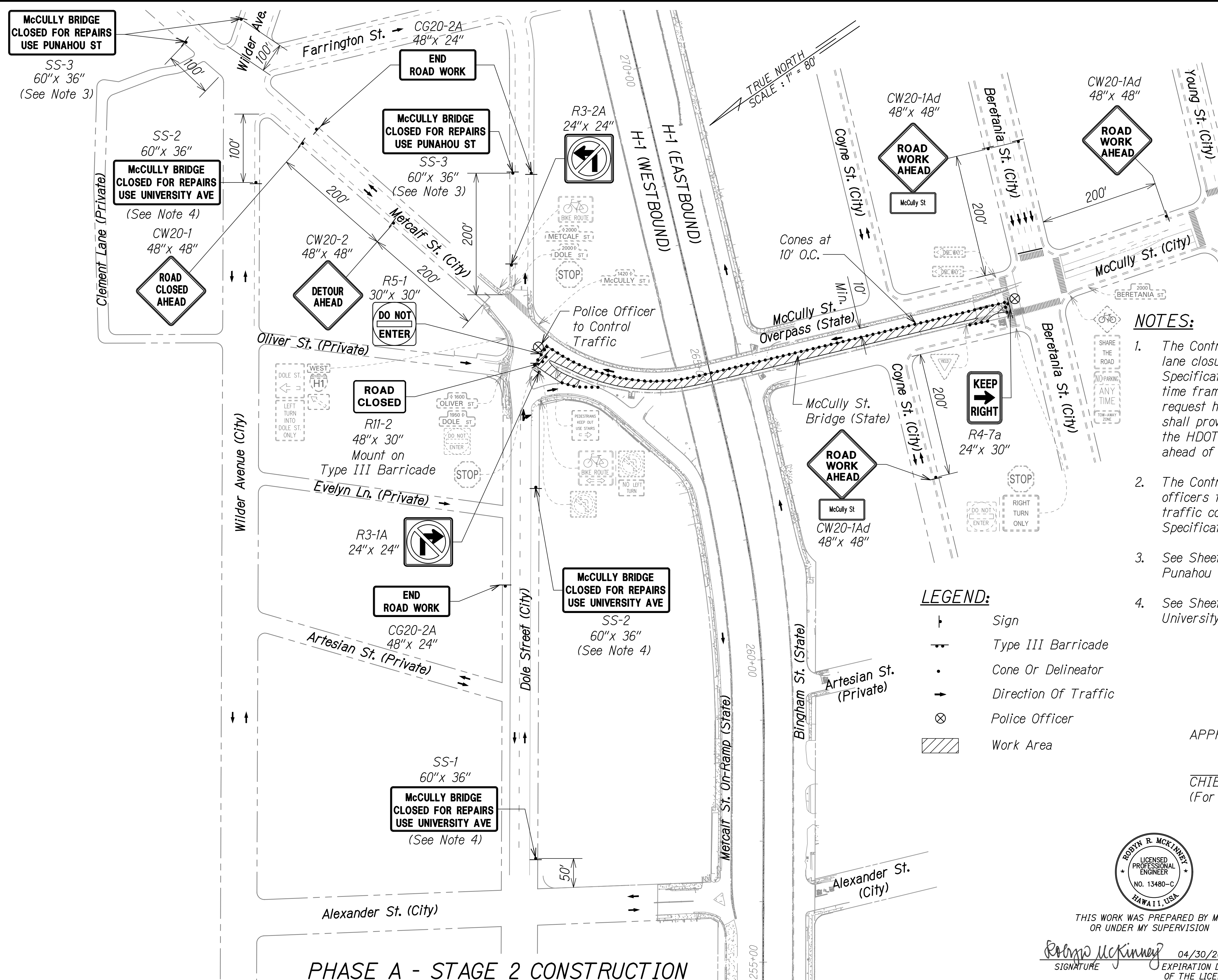
INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-H1-(279)R

Scale: 1" = 80" Date: November 2024  
 SHEET No. F107 OF 120 SHEETS

**PHASE A - STAGE 1 CONSTRUCTION**

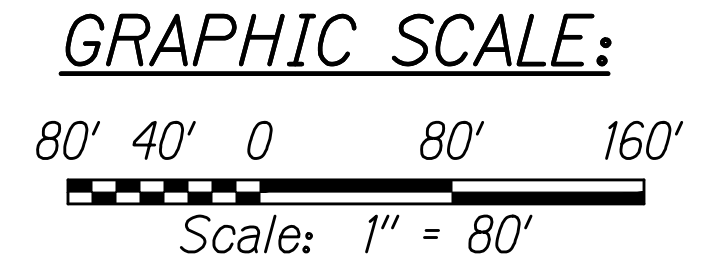
W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPANI'OI CIVIL DRAWINGS\F107 TCP McCULLY.DWG 8/30/2024 2:09 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	320	411



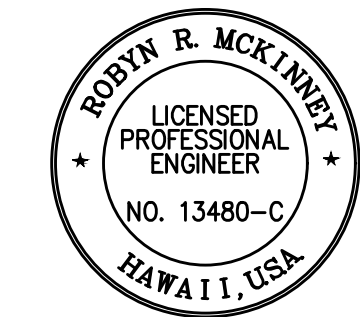
- NOTES:**
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
  - See Sheet F109 for McCully Street Detour Plan via Punahou Street.
  - See Sheet F110 for McCully Street Detour Plan via University Avenue.

- LEGEND:**
- Sign
  - Type III Barricade
  - Cone Or Delineator
  - Direction Of Traffic
  - Police Officer
  - Work Area



APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP DATE (For Work in City ROW Only)



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*Rodyn McKinney* 04/30/26  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR McCULLY STREET**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 80' Date: November 2024

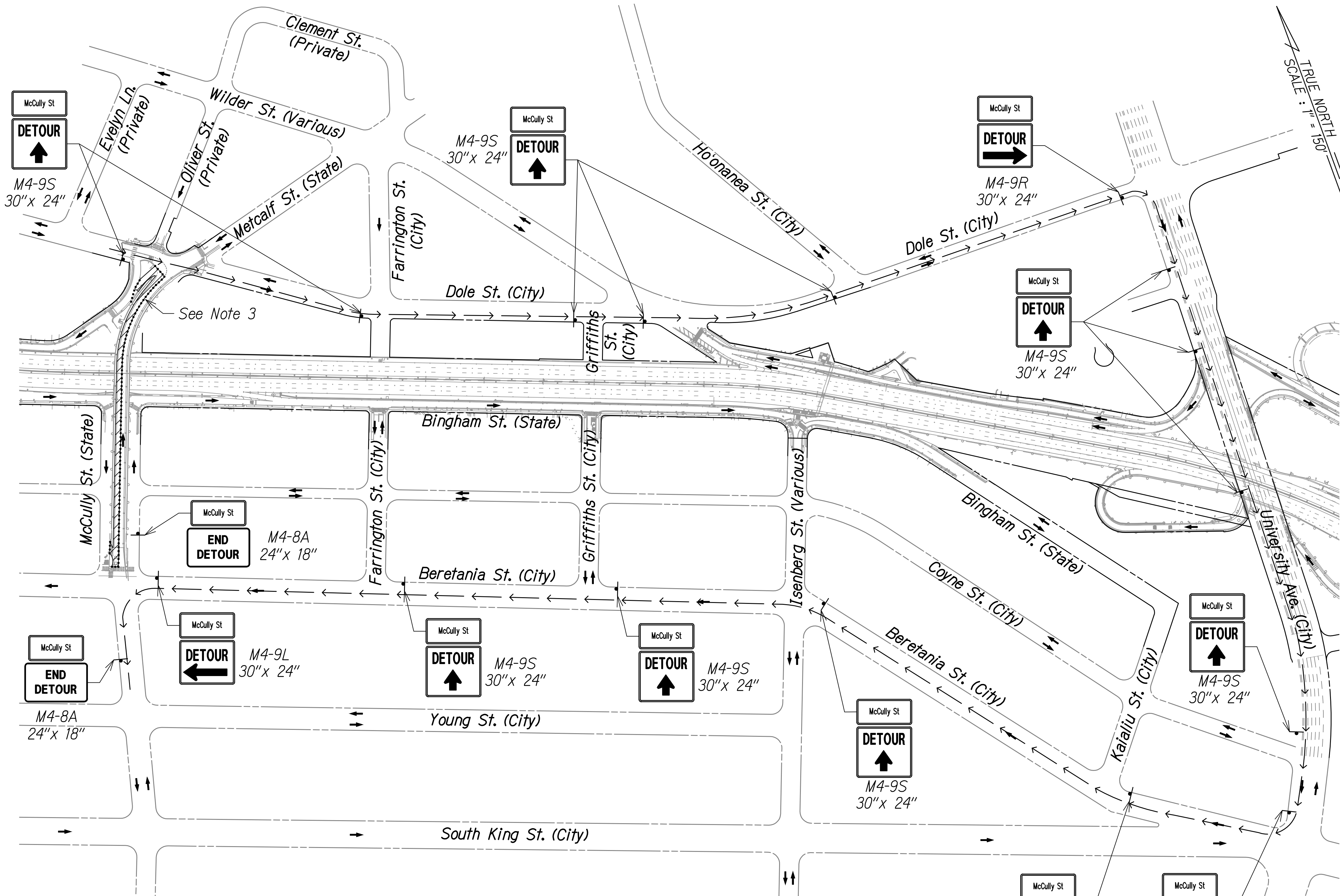
SHEET No. F108 OF 120 SHEETS

**PHASE A - STAGE 2 CONSTRUCTION**

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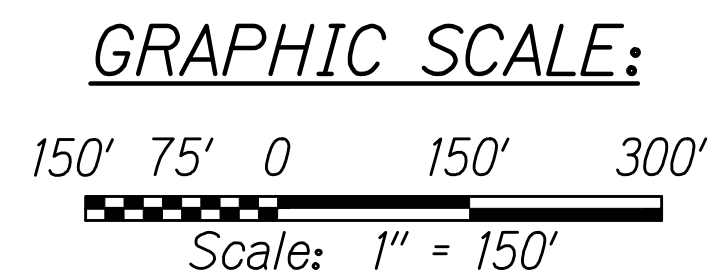
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)R	2024	322	411



- NOTES:**
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
  - See Sheet F107 for McCully Street Traffic Control Plan Stage 1 Construction and Sheet F108 for Stage 2 Construction.

- LEGEND:**
- Sign
  - Work Area
  - Police Officer
  - Direction Of Traffic
  - Detour Route

**PHASE A - STAGES 1 AND 2 CONSTRUCTION DETOUR**



APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF, TRAFFIC REVIEW BRANCH, DPP  
 (For Work in City ROW Only)

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 SIGNATURE: *Robyn McKinney* 04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP FOR MCCULLY STREET**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal-Aid Project No. NH-H1-1(279)R

Scale: 1" = 150' Date: November 2024  
 SHEET No. F110 OF 120 SHEETS

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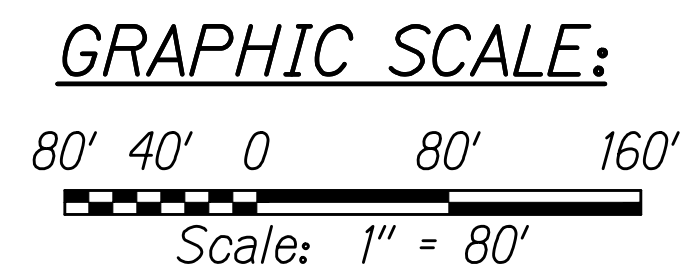
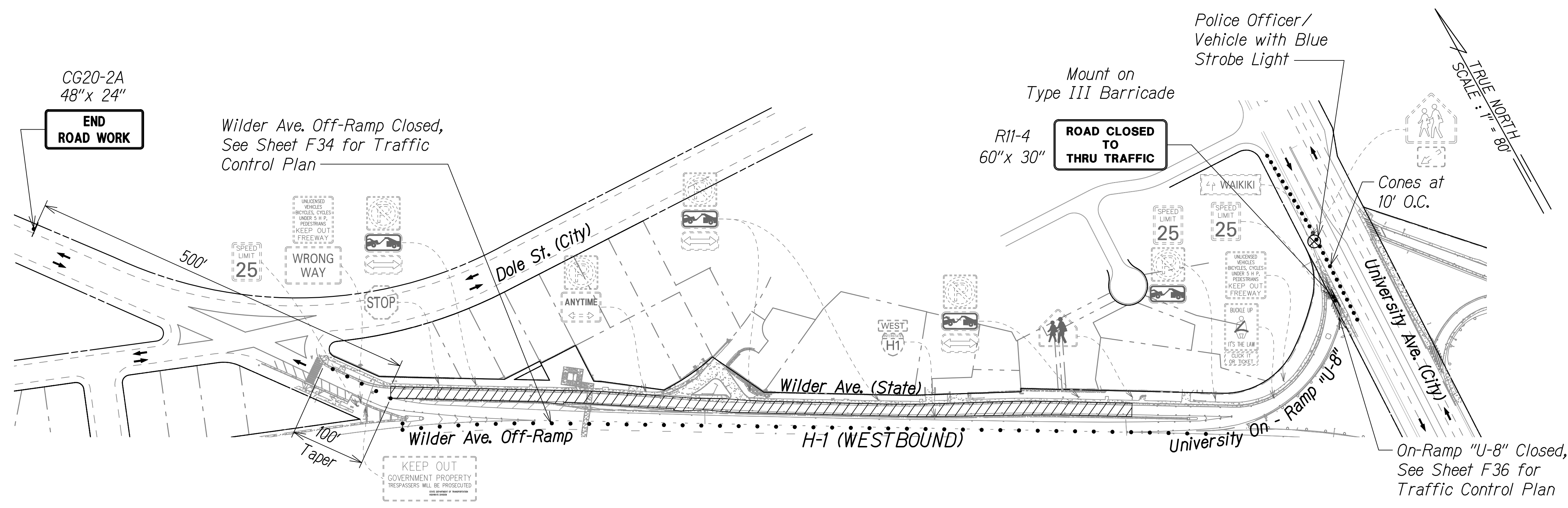
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	323	411

**LEGEND:**

- † Sign
- ‡ Type III Barricade
- Cone Or Delineator
- Direction Of Traffic
- ⊗ Police Officer
- ▨ Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.



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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR WILDER AVENUE**

**INTERSTATE ROUTE H-1 RESURFACING**  
*Miller Pedestrian Overpass to Kapiolani Interchange*

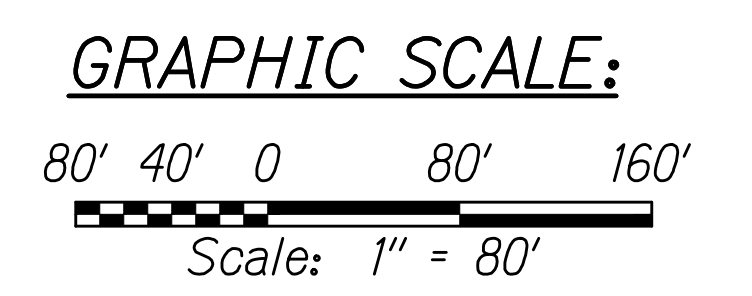
**Federal-Aid Project No. NH-HI-1(279)R**

Scale: 1" = 80' Date: November 2024

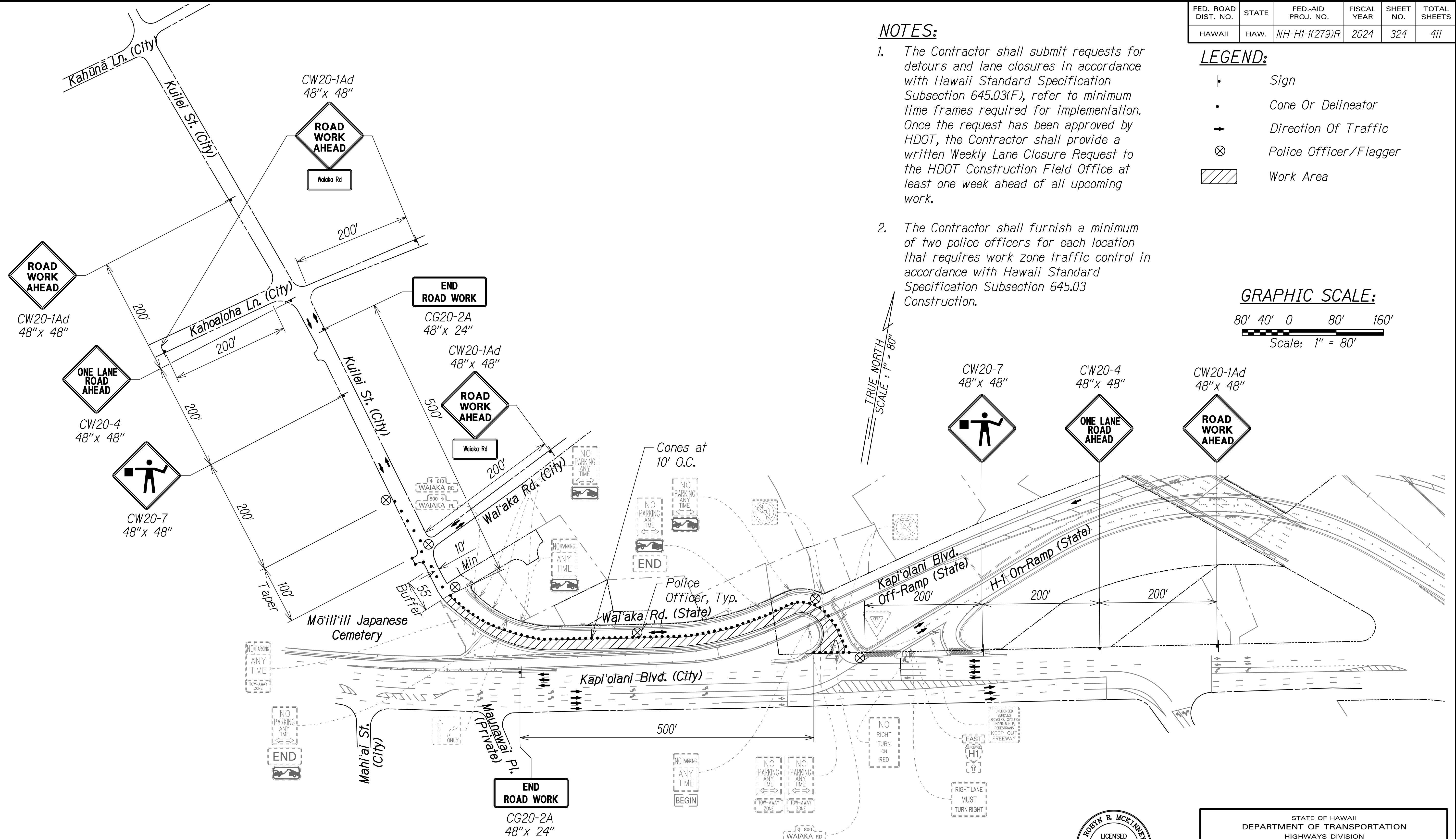
SHEET No. **F111** OF 120 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	324	411

- LEGEND:**
- † Sign
  - Cone Or Delineator
  - Direction Of Traffic
  - ⊗ Police Officer/Flagger
  - ▨ Work Area



- NOTES:**
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

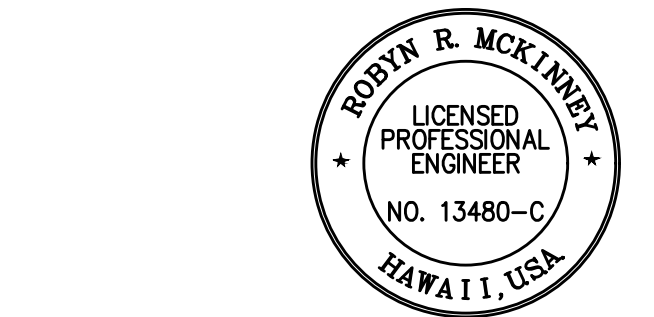


**PHASE A CONSTRUCTION**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE



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SIGNATURE: *Rodyn R. McKinney* 04/30/26  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR WAIAKA ROAD**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 80' Date: November 2024

SHEET No. F112 OF 120 SHEETS

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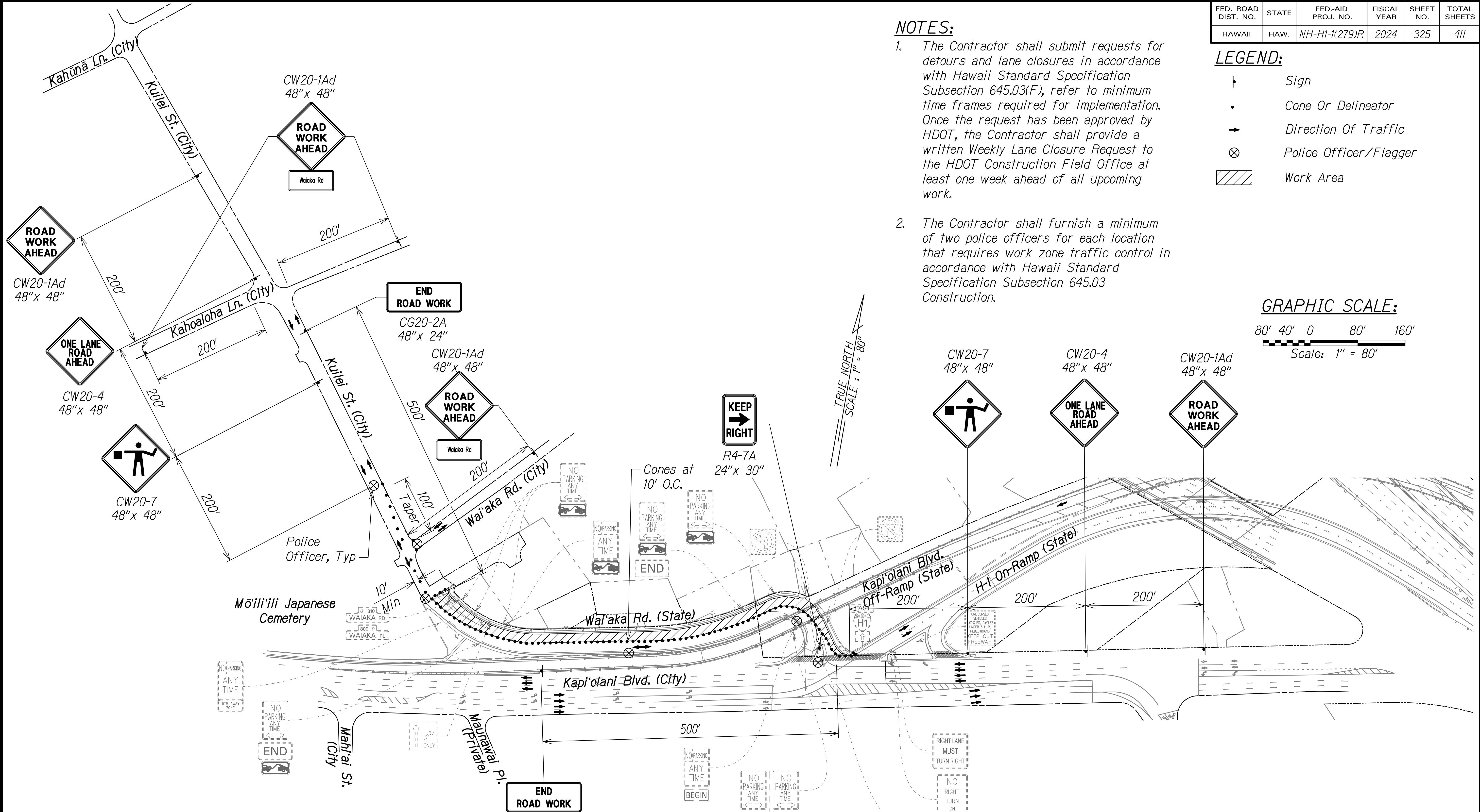
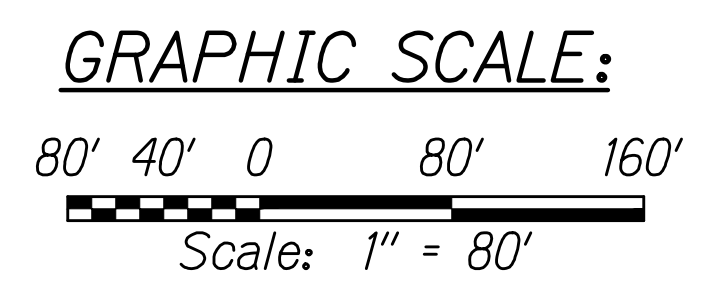


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	325	411

- LEGEND:**
- † Sign
  - Cone Or Delineator
  - Direction Of Traffic
  - ⊗ Police Officer/Flagger
  - ▨ Work Area

**NOTES:**

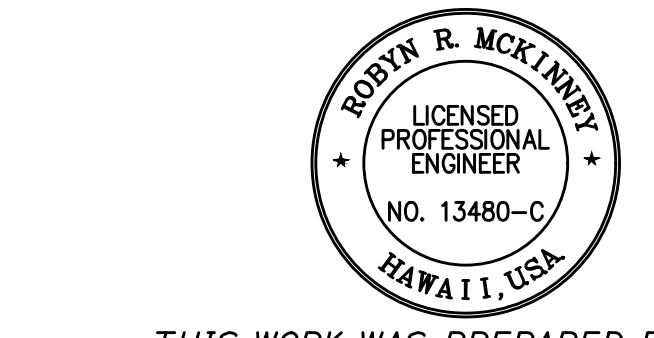
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum time frames required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.



**PHASE B CONSTRUCTION**

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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP FOR WAIAKA ROAD**

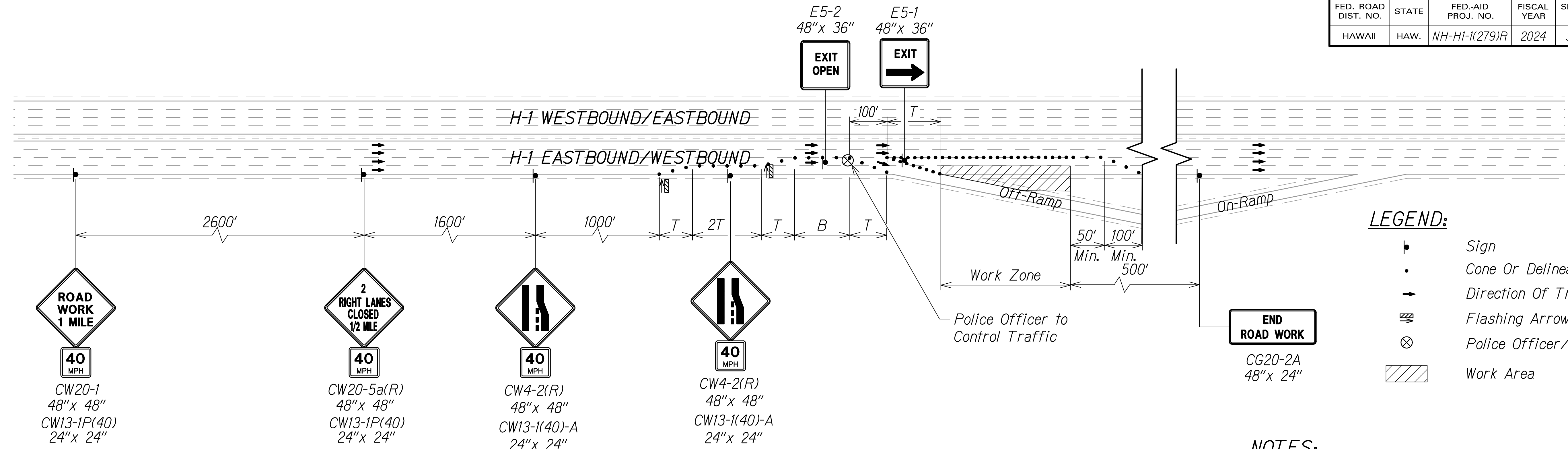
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: 1" = 80' Date: November 2024

SHEET No. F113 OF 120 SHEETS

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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	326	411







**LEGEND:**

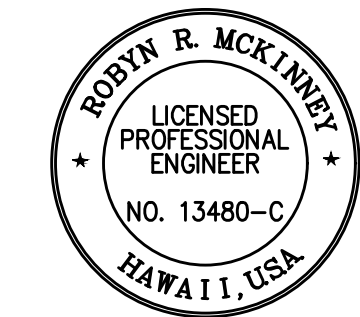
- ▬ Sign
- Cone Or Delineator
- Direction Of Traffic
- ⚡ Flashing Arrow Board
- ⊗ Police Officer/Flagger
- ▨ Work Area

- NOTES:**
- The sequence of the phase closures shall be determined by the Contractor and approved by the State.
  - The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
  - For Off-Ramp closures, see Traffic Control Plans for Freeway Eastbound & Westbound Ramp Closures on F7 - F43.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

**TCP - INSTALL IMPACT ATTENUATOR/GUARDRAIL AT OFF-RAMP WITH TWO LANE CLOSURE**

Description	Sign Locations			
				
<b>H-1 EASTBOUND</b>				
Shoulder work at Kinau St. Off-Ramp - Installation of Guardrail and Impact Attenuator. Keep Kinau St. Off-Ramp and H-1 Eastbound two travel lanes open.	⊕ Sta. 93+70	⊕ Sta. 119+70	⊕ Sta. 135+70	⊕ Sta. 156+70
Shoulder work at Punahou St. Off-Ramp - Installation of Impact Attenuator. Keep Punahou St. Off-Ramp open and H-1 Eastbound two travel lanes open.	⊕ Sta. 152+00	⊕ Sta. 178+00	⊕ Sta. 194+00	⊕ Sta. 215+00
<b>H-1 WESTBOUND</b>				
Shoulder work at Vineyard Blvd. Off-Ramp - Installation of Guardrail and Impact Attenuator. Keep Vineyard Blvd. Off-Ramp and H-1 Westbound two travel lanes open.	⊕ Sta. 232+50	⊕ Sta. 206+50	⊕ Sta. 190+50	⊕ Sta. 169+50
Shoulder work at Lunalilo St. Off-Ramp - Installation of Guardrail and Impact Attenuator. Keep Lunalilo St. Off-Ramp and H-1 Westbound two travel lanes open.	⊕ Sta. 271+28	⊕ Sta. 245+28	⊕ Sta. 229+28	⊕ Sta. 208+28

W:\\_CIVIL\_3D\_PROJECTS\2016\_202.000\_DOT-HWYS\_H1\_RESURFACING - MILLER TO KAPUNIYOI CIVIL DRAWINGS\F114-F117 TCP SHOULDER.DWG 8/29/2024 6:07 PM



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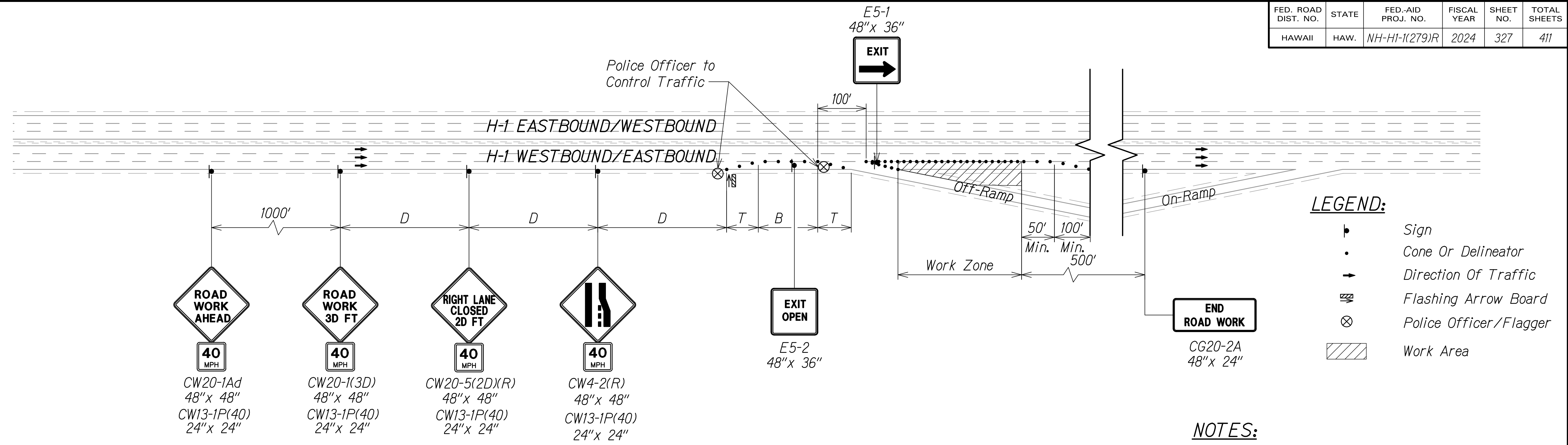
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP SHOULDER WORK**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: NTS Date: November 2024

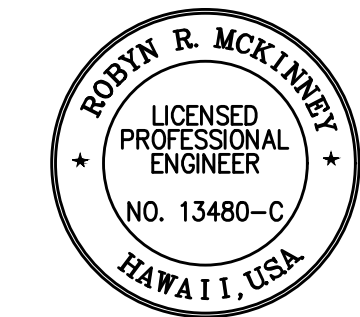
SHEET No. F114 OF 120 SHEETS



- NOTES:**
- The sequence of the phase closures shall be determined by the Contractor and approved by the State.
  - The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
  - For Off-Ramp closures, see Traffic Control Plans for Freeway Eastbound & Westbound Ramp Closures on F7 - F43.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

**TCP - INSTALL IMPACT ATTENUATOR/GUARDRAIL AT OFF-RAMP WITH ONE LANE CLOSURE**

Description	Sign Locations			
<b>H-1 EASTBOUND</b>				
Shoulder work at Bingham St. Off-Ramp - Installation of Impact Attenuator. Keep Bingham St. Off-Ramp open and H-1 Eastbound two travel lanes open.	⊕ Sta. 226+78	⊕ Sta. 236+78	⊕ Sta. 241+78	⊕ Sta. 246+78
Shoulder work at H-1 ⊕ Sta. 19+33± to ⊕ Sta. 30+02± - Installation of Guardrail System at H-1 Eastbound. Keep University Ave. "U-3" Off-Ramp and H-1 Eastbound two travel lanes open.	⊕ Sta. 255+63	⊕ Sta. 265+63	⊕ Sta. 270+63	⊕ Sta. 275+63
Shoulder work at King St. Off-Ramp - Installation of Guardrail and Impact Attenuator. Keep King St. Off-Ramp and H-1 Eastbound two travel lanes open.	⊕ Sta. 272+22	⊕ Sta. 2+22	⊕ Sta. 7+22	⊕ Sta. 12+22
<b>H-1 WESTBOUND</b>				
Shoulder work at Wilder Ave. Off-Ramp - Installation of Impact Attenuator. Keep Wilder Ave. Off-Ramp and H-1 Westbound two travel lanes open. Close University Ave. "U-8" On-Ramp.	⊕ Sta. 41+97	⊕ Sta. 31+97	⊕ Sta. 26+97	⊕ Sta. 21+97



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HIGHWAYS DIVISION

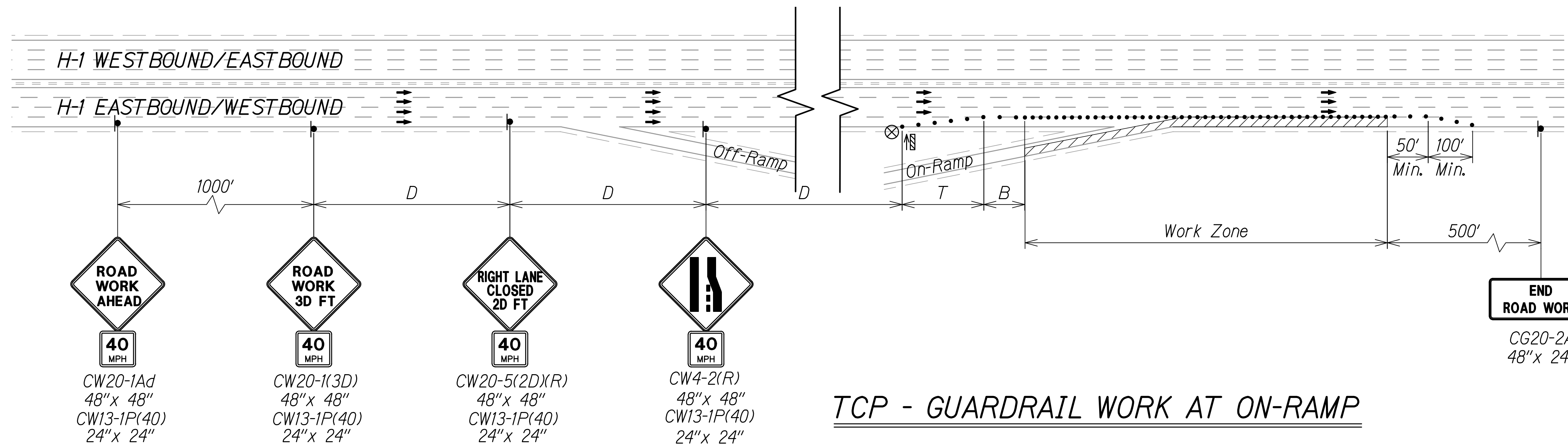
**TCP SHOULDER WORK**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: NTS Date: November 2024

SHEET No. F115 OF 120 SHEETS

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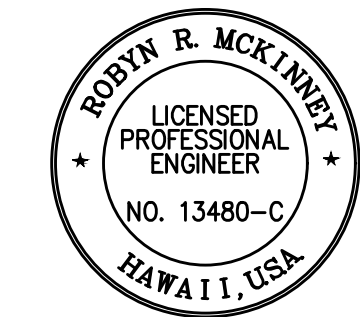


**TCP - GUARDRAIL WORK AT ON-RAMP**

Description	Sign Locations			
<b>H-1 EASTBOUND</b>				
Shoulder work at Vineyard and Ward Ave. On-Ramps - Installation of Guardrail System at H-1 Eastbound @ Sta. 202+98±. Close Vineyard Blvd. On-Ramp and Ward Ave. On-Ramp. Keep H-1 Eastbound three travel lanes open.	@ Sta. 160+90	@ Sta. 170+90	@ Sta. 175+90	@ Sta. 180+90
Shoulder work at Piikoi St. On-Ramp - Installation of Guardrail System. Close Piikoi On-Ramp. H-1 Eastbound travel lanes open.	See Sheet F12 for Piikoi St. On-Ramp Closure Traffic Control Plan.			
Shoulder work at H-1 @ Sta. 4+71± to Sta. 14+12± and University Ave. "U-1" On-Ramp - Installation of Guardrail System. Close University Ave. "U-1" On-Ramp. Keep H-1 Eastbound two travel lanes open.	@ Sta. 250+61	@ Sta. 260+61	@ Sta. 265+61	@ Sta. 270+61
Shoulder work at H-1 @ Sta. 41+27± to Sta. 44+47± - Installation of Guardrail System. Close King St. Off-Ramp. Keep Kapiolani Blvd. On-Ramp open and H-1 Eastbound two travel lanes open.	@ Sta. 3+90	@ Sta. 13+90	@ Sta. 18+90	@ Sta. 23+90
<b>H-1 WESTBOUND</b>				
Shoulder work at Lunalilo St. On-Ramp - Installation of Guardrail and Impact Attenuator. Close Lunalilo St. On-Ramp. Keep H-1 Westbound travel lanes open.	See Sheets F29 and F67 for Lunalilo St. On-Ramp Closure Traffic Control Plan.			
Shoulder work at University Ave. "U-8" On-Ramp - Installation of Guardrail System. Close University Ave. "U-8" On-Ramp. Keep H-1 Westbound travel lanes open.	See Sheet F36 for University Ave. "U-8" On-Ramp Closure Traffic Control Plan.			
Shoulder work at University Ave. "U-6" On-Ramp - Installation of Guardrail System. Close University Ave. "U-6" On-Ramp. Keep "U-5" Off-Ramp and H-1 Westbound two travel lanes open.	@ Sta. 55+60	@ Sta. 45+60	@ Sta. 40+60	@ Sta. 35+60
Shoulder work at Old Waialae Rd. On-Ramp to H-1 @ Sta. 21+50± - Installation of Guardrail System. Close Old Waialae Rd. On-Ramp. Keep H-1 Westbound two travel lanes open.	@ Sta. 64+60	@ Sta. 54+60	@ Sta. 49+60	@ Sta. 44+60

**NOTES:**

- The sequence of the phase closures shall be determined by the Contractor and approved by the State.
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
- For On-Ramp closures, see Traffic Control Plans for Freeway Eastbound & Westbound Ramp Closures on F7 - F43.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.



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*RODNEY R. MCKINNEY*  
 SIGNATURE      04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TCP SHOULDER WORK**

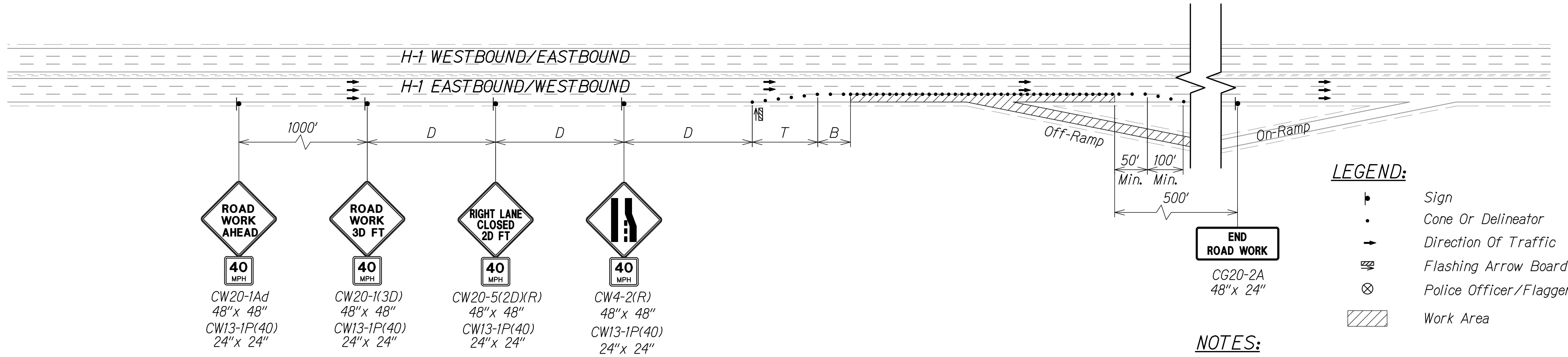
**INTERSTATE ROUTE H-1 RESURFACING**  
**Miller Pedestrian Overpass to Kapiolani Interchange**  
**Federal-Aid Project No. NH-HI-1(279)R**

Scale: NTS      Date: November 2024

SHEET No. **F116** OF 120 SHEETS

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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2024	329	411

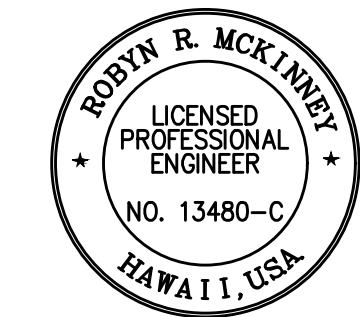


- LEGEND:**
- ▬ Sign
  - Cone Or Delineator
  - Direction Of Traffic
  - ↔ Flashing Arrow Board
  - ⊗ Police Officer/Flagger
  - ▨ Work Area

- NOTES:**
- The sequence of the phase closures shall be determined by the Contractor and approved by the State.
  - The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
  - See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
  - For Off-Ramp closures, see Traffic Control Plans for Freeway Eastbound & Westbound Ramp Closures on F7 - F43.
  - The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

**TCP - GUARDRAIL WORK NEAR OFF-RAMP**

Description	Sign Locations			
<b>H-1 EASTBOUND</b>				
Shoulder work at H-1 @ Sta. 15+31± to University Ave. "U-3" Off-Ramp - Installation of Guardrail System. Close University Ave. "U-3" Off-Ramp. Keep H-1 Eastbound two travel lanes open.	@ Sta. 260+90	@ Sta. 270+90	@ Sta. 275+90	@ Sta. 0+90
<b>H-1 WESTBOUND</b>				
Shoulder work at University Ave. "U-5" Off-Ramp - Installation of Guardrail System. Close University Ave. "U-5" Off-Ramp. Keep H-1 Westbound two travel lanes open.	@ Sta. 55+60	@ Sta. 45+60	@ Sta. 40+60	@ Sta. 35+60
Shoulder work at H-1 @ Sta. 36+03± to @ Sta. 46+29± - Installation of Guardrail System. Close Old Waiālae Rd. Off-Ramp. Keep H-1 Westbound two travel lanes open.	@ Sta. 80+39	@ Sta. 70+39	@ Sta. 65+39	@ Sta. 60+39



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*Rodyn R. McKinney* 04/30/26  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP SHOULDER WORK**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-HI-1(279)R

Scale: NTS Date: November 2024

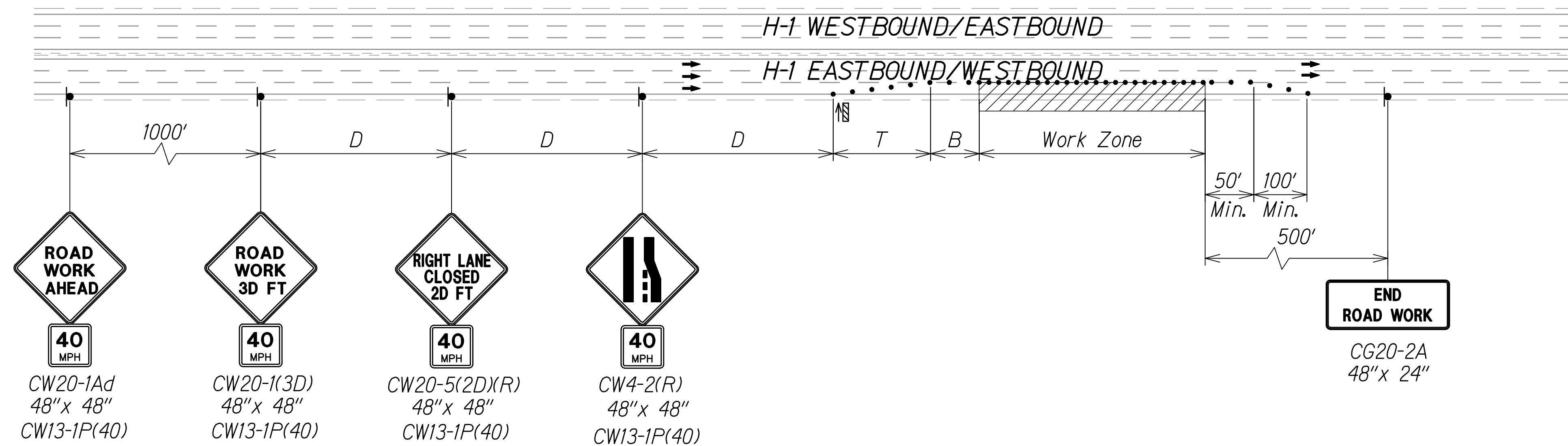
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FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2024	330	411

**LEGEND:**

- ▬ Sign
- Cone Or Delineator
- Direction Of Traffic
- ↔ Flashing Arrow Board
- ⊗ Police Officer/Flagger
- ▨ Work Area

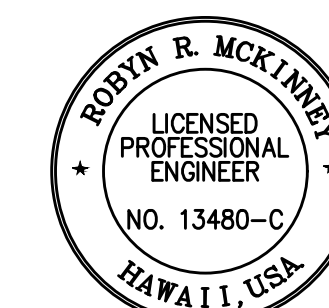


**NOTES:**

- The sequence of the phase closures shall be determined by the Contractor and approved by the State.
- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.

**TCP - TYPICAL ONE LANE CLOSURE FOR LANDSCAPE WORK**

W:\\_CIVIL\_3D\_PROJECTS\2016\_2022\000\_DOT-HWYS\_H1\_RESURFACING - MILLER TO KAPUNI\01\_CIVIL\_DRAWINGS\F118\_TCP\_SHOULDER\_WORK.DWG 8/29/2024 5:40 PM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*Rodyn R. McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

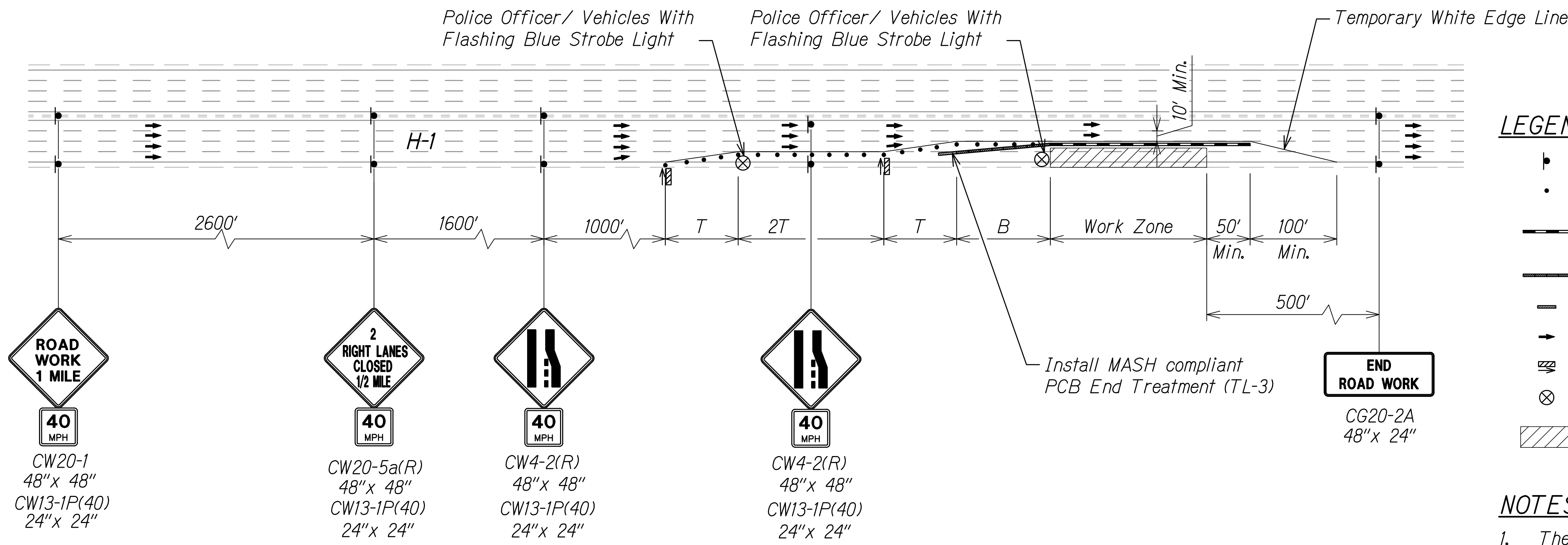
**TCP SHOULDER WORK**

**INTERSTATE ROUTE H-1 RESURFACING**  
**Miller Pedestrian Overpass to Kapiolani Interchange**  
**Federal-Aid Project No. NH-H1-(279)R**

Scale: NTS Date: November 2024

SHEET No. **F118** OF 120 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2024	331	411



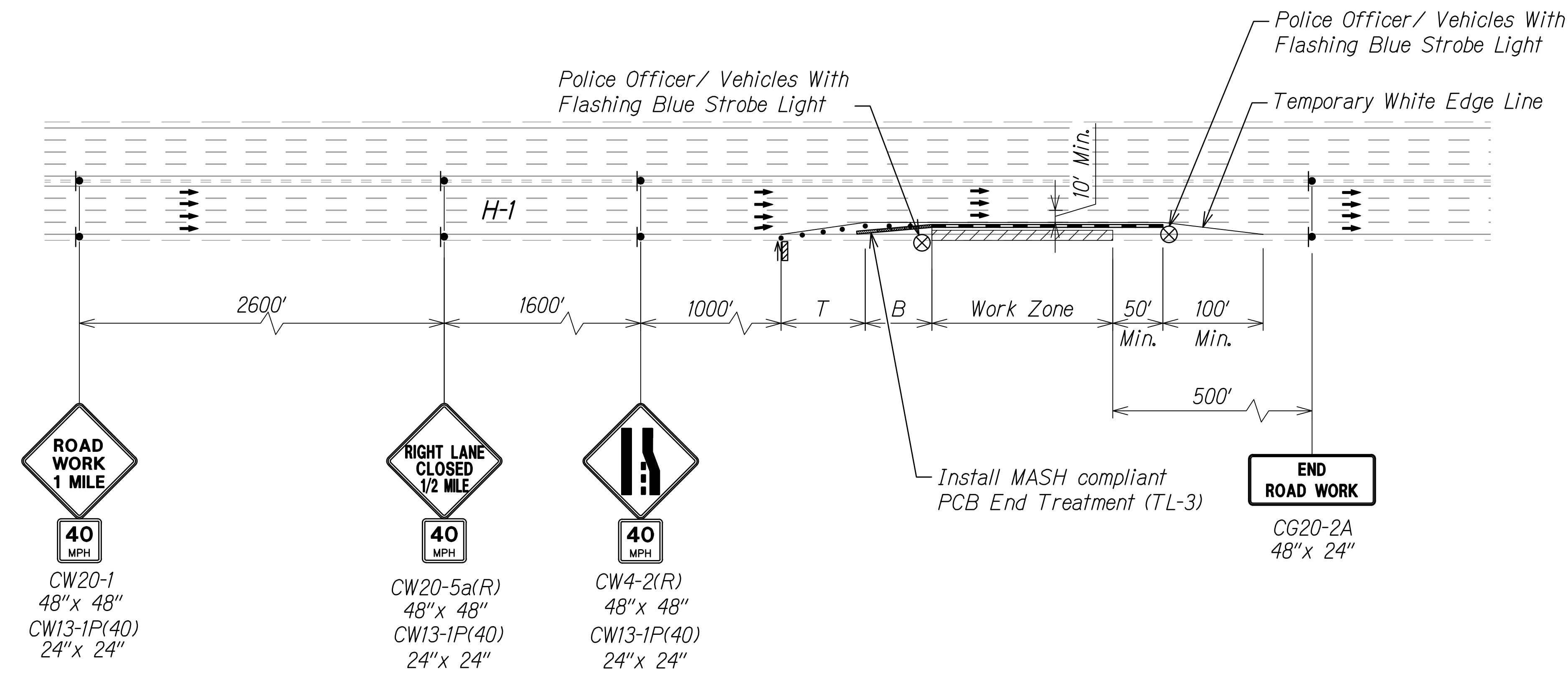
**H-1 TWO-LANE CLOSURES (BARRIER FOOTING WORK)**

**LEGEND:**

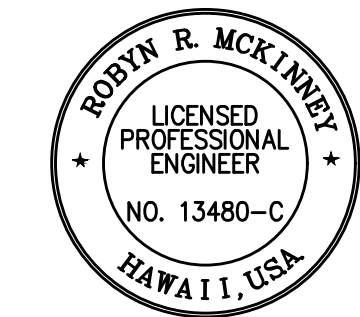
- Sign
- Cone Or Delineator
- Portable Concrete Barrier with Steady Burn Amber Lights, See Note 4
- Portable Concrete Barrier
- MASH Compliant PCB End Treatment (TL-3)
- Direction Of Traffic
- Flashing Arrow Board
- Police Officer/Flagger
- Work Area

**NOTES:**

- The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
- See Table 1 on Sheet F1 for Traffic Control Plan for additional dimensions.
- The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
- Install steady burn amber lamps on portable concrete barriers at 20.0' o.c. Installing, maintaining and removing each steady burn amber lamp including changing of batteries and bulbs shall be considered incidental to applicable portable concrete barrier items.



**H-1 ONE-LANE CLOSURES (BARRIER FOOTING WORK)**



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*Rodyn R. McKinney* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP BARRIER FOOTING WORK**

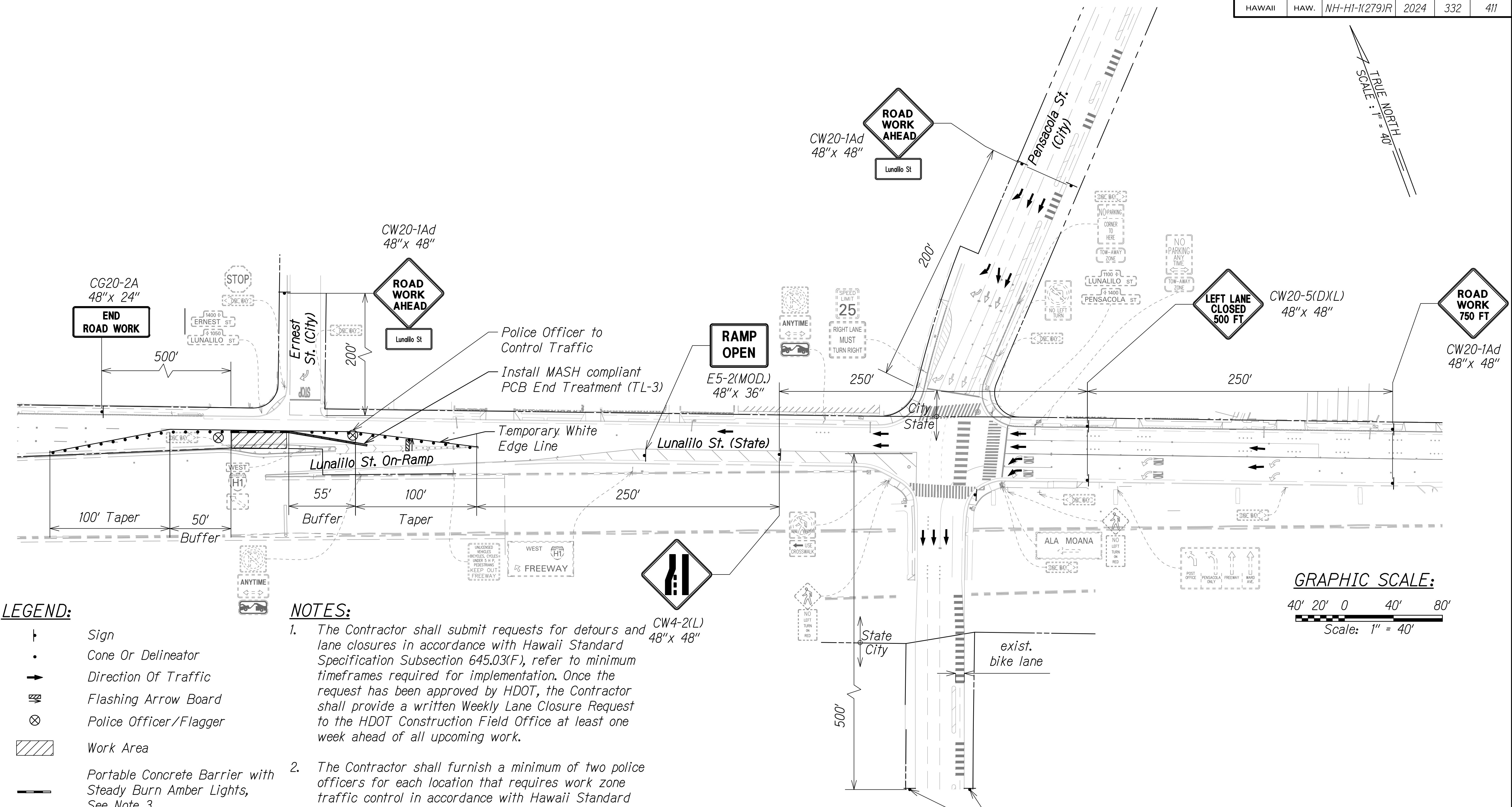
**INTERSTATE ROUTE H-1 RESURFACING**  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-H1-(279)R

Scale: NTS Date: November 2024

W:\\_CIVIL\_3D\_PROJECTS\2016\_202,000\_DOT-HWYS-H1\_RESURFACING - MILLER TO KAPITOLI CIVIL DRAWINGS\F119\_TCP\_BARRIER\_FOOTING\_WORK.DWG\_8/29/2024\_5:36 PM

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(279)R	2024	332	411

TRUE NORTH  
SCALE: 1" = 40'



**LEGEND:**

- Sign
- Cone Or Delineator
- Direction Of Traffic
- Flashing Arrow Board
- Police Officer/Flagger
- Work Area
- Portable Concrete Barrier with Steady Burn Amber Lights, See Note 3
- Portable Concrete Barrier
- MASH Compliant PCB End Treatment (TL-3)

**NOTES:**

1. The Contractor shall submit requests for detours and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F), refer to minimum timeframes required for implementation. Once the request has been approved by HDOT, the Contractor shall provide a written Weekly Lane Closure Request to the HDOT Construction Field Office at least one week ahead of all upcoming work.
2. The Contractor shall furnish a minimum of two police officers for each location that requires work zone traffic control in accordance with Hawaii Standard Specification Subsection 645.03 Construction.
3. Install steady burn amber lamps on portable concrete barriers at 20.0' o.c. Installing, maintaining and removing each steady burn amber lamp including changing of batteries and bulbs shall be considered incidental to applicable portable concrete barrier items.

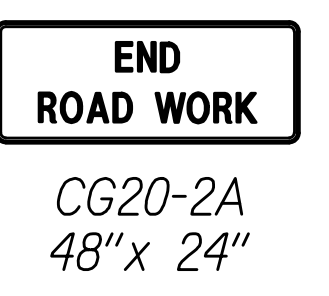


CW4-2(L)  
48" x 48"

APPROVED:

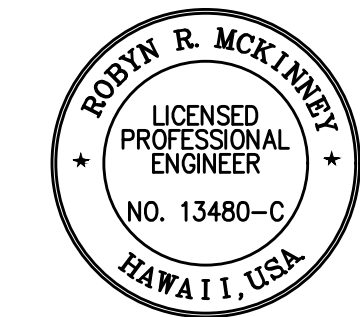
CHIEF, TRAFFIC REVIEW BRANCH, DPP  
(For Work in City ROW Only)

DATE



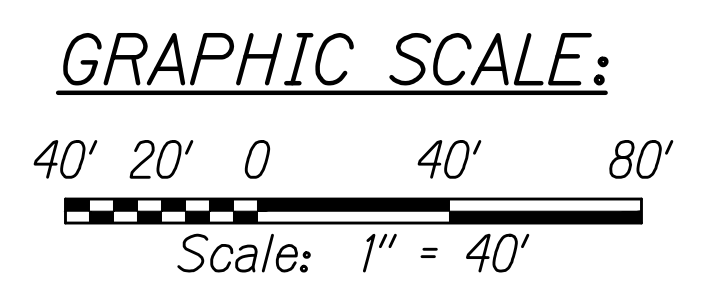
CG20-2A  
48" x 24"

*Rodny R. McKinney*  
SIGNATURE



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

04/30/26  
EXPIRATION DATE OF THE LICENSE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TCP LUNALILO BARRIER  
FOOTING WORK**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal-Aid Project No. NH-H1-1(279)R

Scale: 1" = 40' Date: November 2024

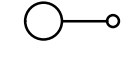





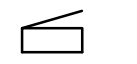
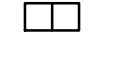







SHEET No. F120 OF 120 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	303	381

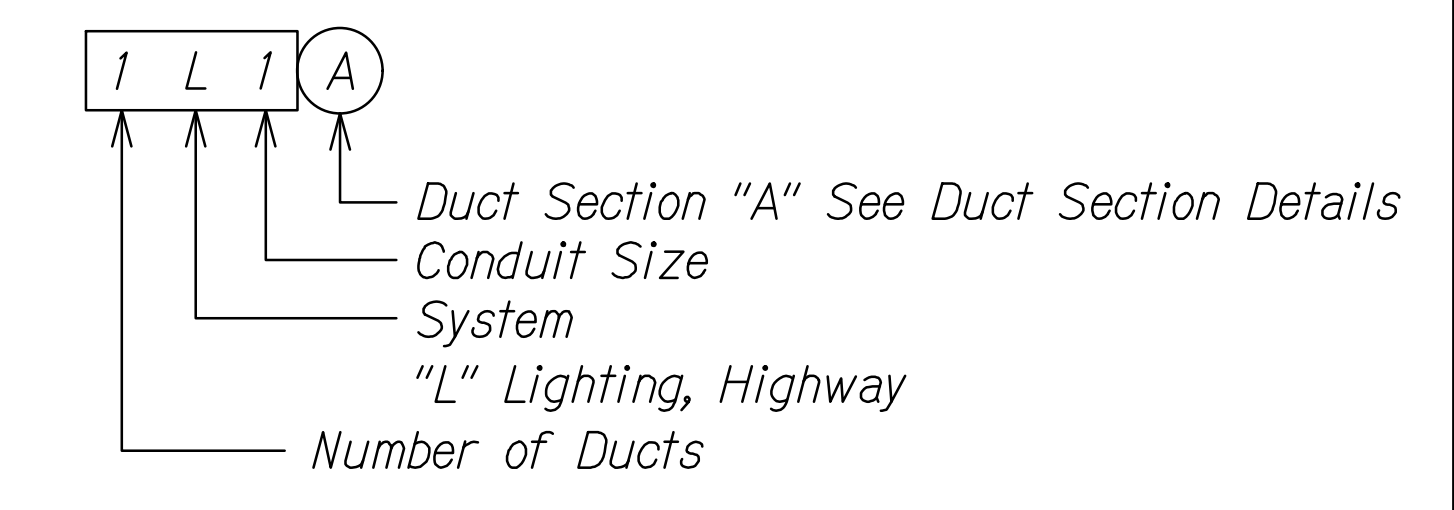
### SYMBOL LIST

-  Existing Highway Lighting Standard, LED
-  Replace Existing Luminaire With New LED Roadway Luminaire, Type III, 237W, 27000 Lumens, 4000K - GE Evolve ERL2-27C340 or Approved Equal, Voltage Rating As Indicated. Lighting Control to Match Existing
-  Replace Existing Luminaire With New LED Roadway Luminaire, Type III, 196W, 23000 Lumens, 4000K - GE Evolve ERL2-23C340 or Approved Equal, Voltage Rating As Indicated. Lighting Control to Match Existing
-  LED Canopy Luminaire, Flat Lens, 46W 4998 Lumens, 4000K - Cree CAN-EDG-5S-DM-04-E-XX-BZ-350-40K or Approved Equal, Voltage Rating As Indicated
-  LED Steplight, 316 Stainless Steel, 6W, 4000K - HK Lightng ZXL-SLI-FM-SS316 or Approved Equal, 120/277 Volt
- A-1 480V Highway Light Tag, Circuit, Voltage
-  General Electric Light Grid Node to Match Existing Highway Light Controls. Provide ANSI C136.41 7 Pin Receptacle Mounted on Top of 8"H x 6"W x 6"D 316 Stainless Steel NEMA 4X Enclosure with Hinged Cover, Voltage Rating as Indicated. Verify Requirements with Equipment Manufacturer
-  Panelboard
-  Highway Lighting Pullbox
-  Existing Junction Box
-  Existing Junction Box, Wall Mounted
-  Junction Box, 6"H x 4"W x 4"D 316 Stainless Steel NEMA 4X with Hinged Cover
-  Junction Box, 6"H x 4"W x 4"D 316 Stainless Steel NEMA 4X with Hinged Cover, Wall Mounted
-  Underground Ductline
-  Exposed Conduit
-  Liquid-Tight Flexible Conduit

### GENERAL NOTES:

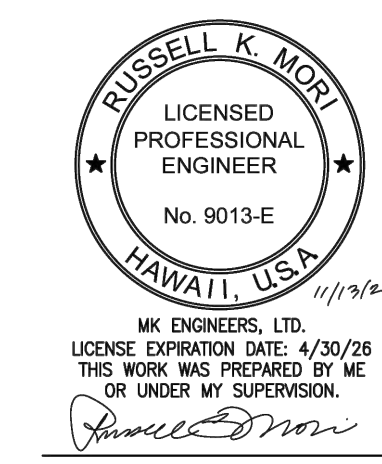
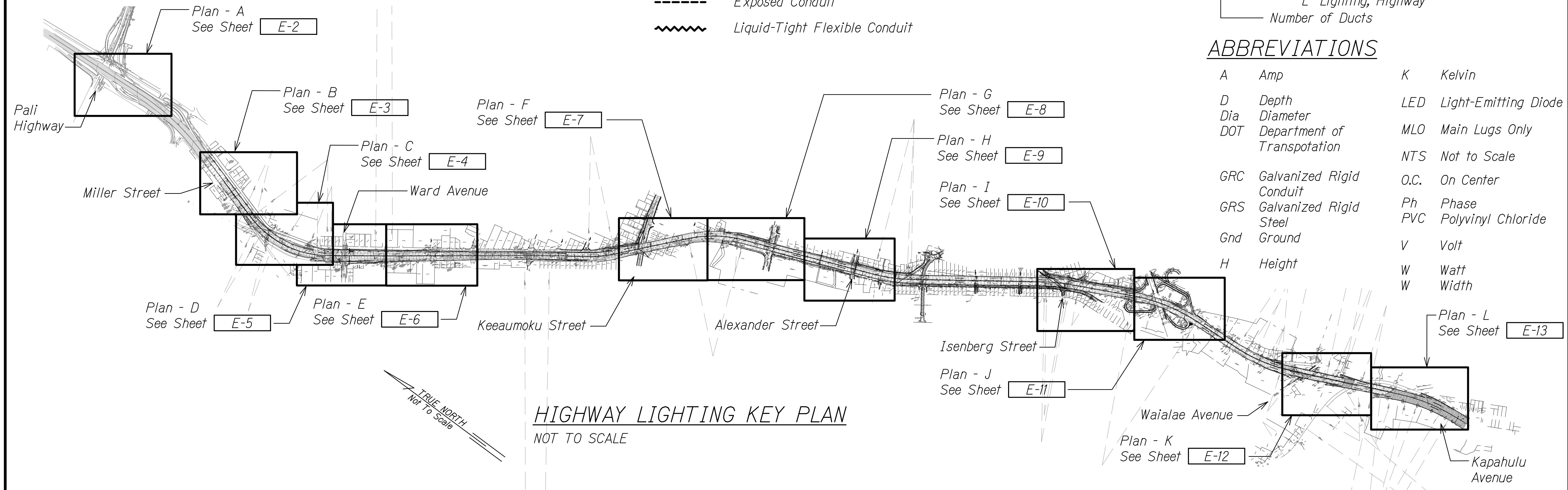
1. Existing Highway Lighting System Shall Remain in Operation At All Times.
2. Extra Care Shall be Taken While Excavating for Ductlines. Contractor Shall Tone for Location of Utility Lines Prior to Excavation.
3. Provide 316 Stainless Steel Mounting Hardware and Fasteners for All Conduit and Equipment.

### DUCT DESIGNATION



### ABBREVIATIONS

- |     |                              |      |                      |
|-----|------------------------------|------|----------------------|
| A   | Amp                          | K    | Kelvin               |
| D   | Depth                        | LED  | Light-Emitting Diode |
| Dia | Diameter                     | MLO  | Main Lugs Only       |
| DOT | Department of Transportation | NTS  | Not to Scale         |
| GRC | Galvanized Rigid Conduit     | O.C. | On Center            |
| GRS | Galvanized Rigid Steel       | Ph   | Phase                |
| Gnd | Ground                       | PVC  | Polyvinyl Chloride   |
| H   | Height                       | V    | Volt                 |
|     |                              | W    | Watt                 |
|     |                              | W    | Width                |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

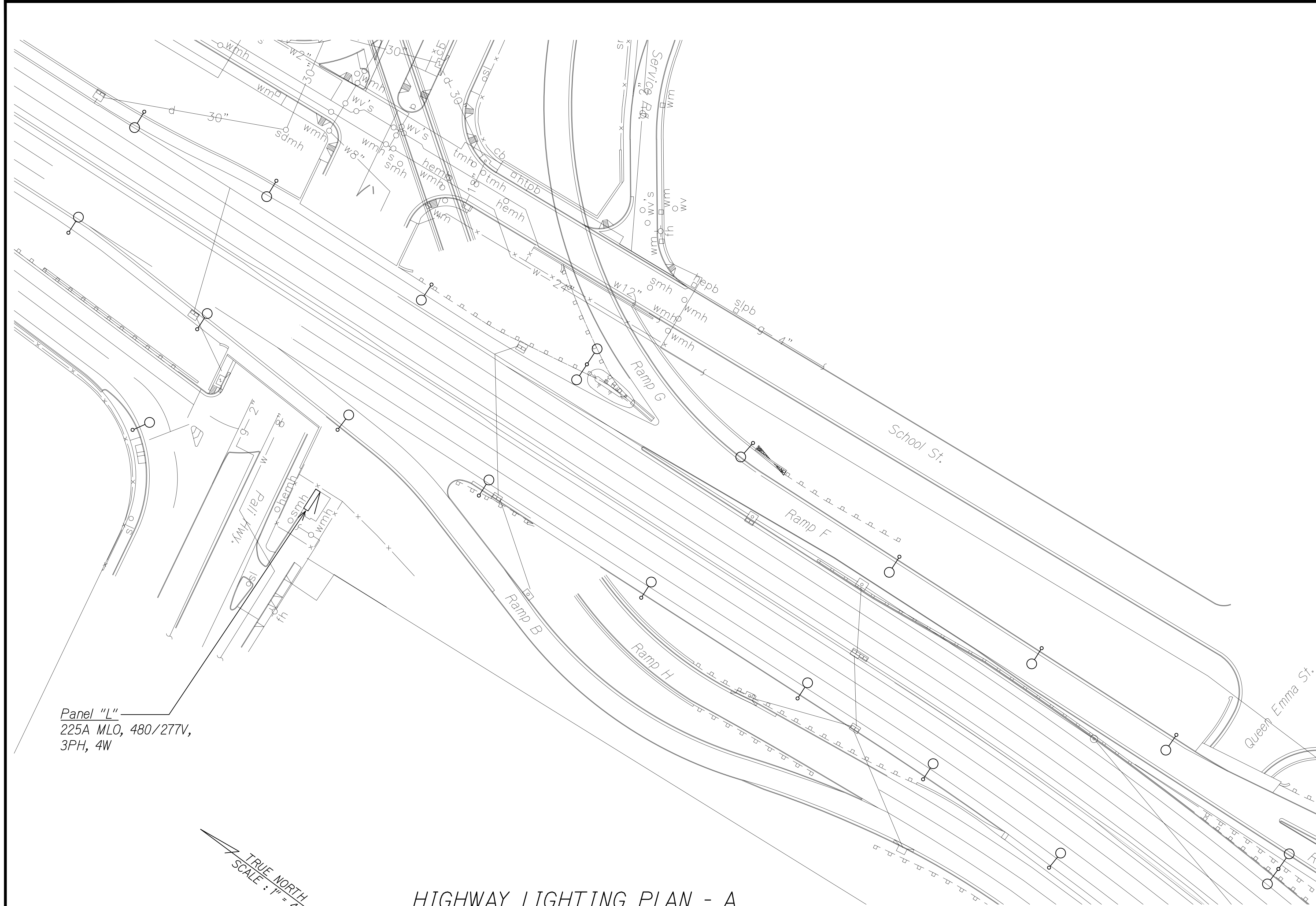
### HIGHWAY LIGHTING SYMBOLS & KEY PLAN

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M

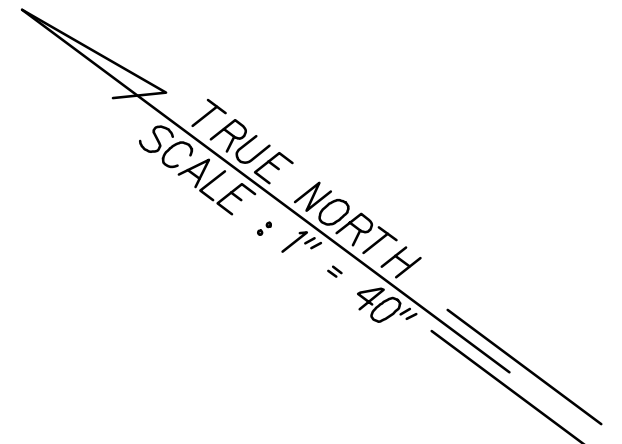
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SHEET No. E-1 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1JK-01-17M	2024	304	381



Panel "L"  
225A MLO, 480/277V,  
3PH, 4W

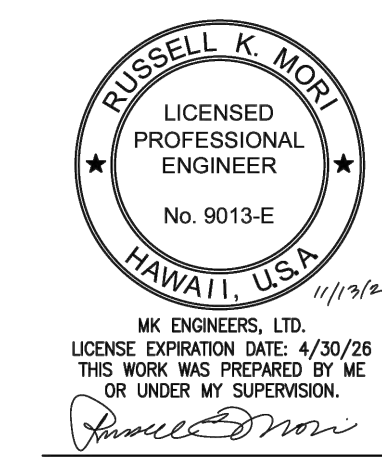
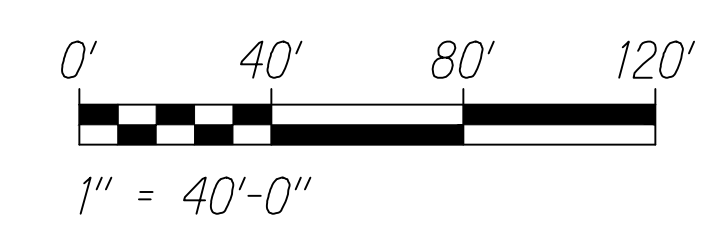


### HIGHWAY LIGHTING PLAN - A

SCALE: 1" = 40'-0"

**NOTES:**

1. All Items Shown Are Existing



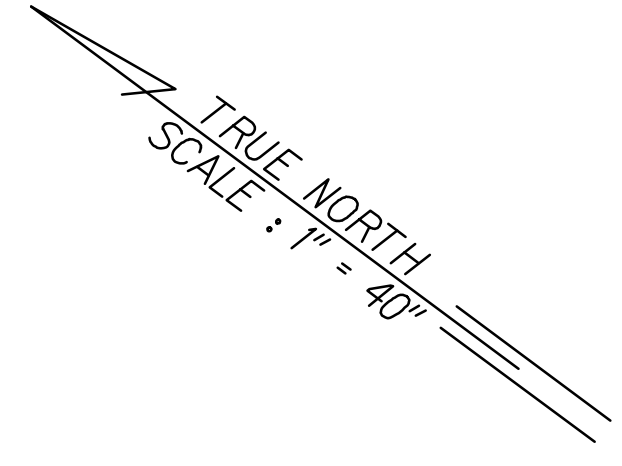
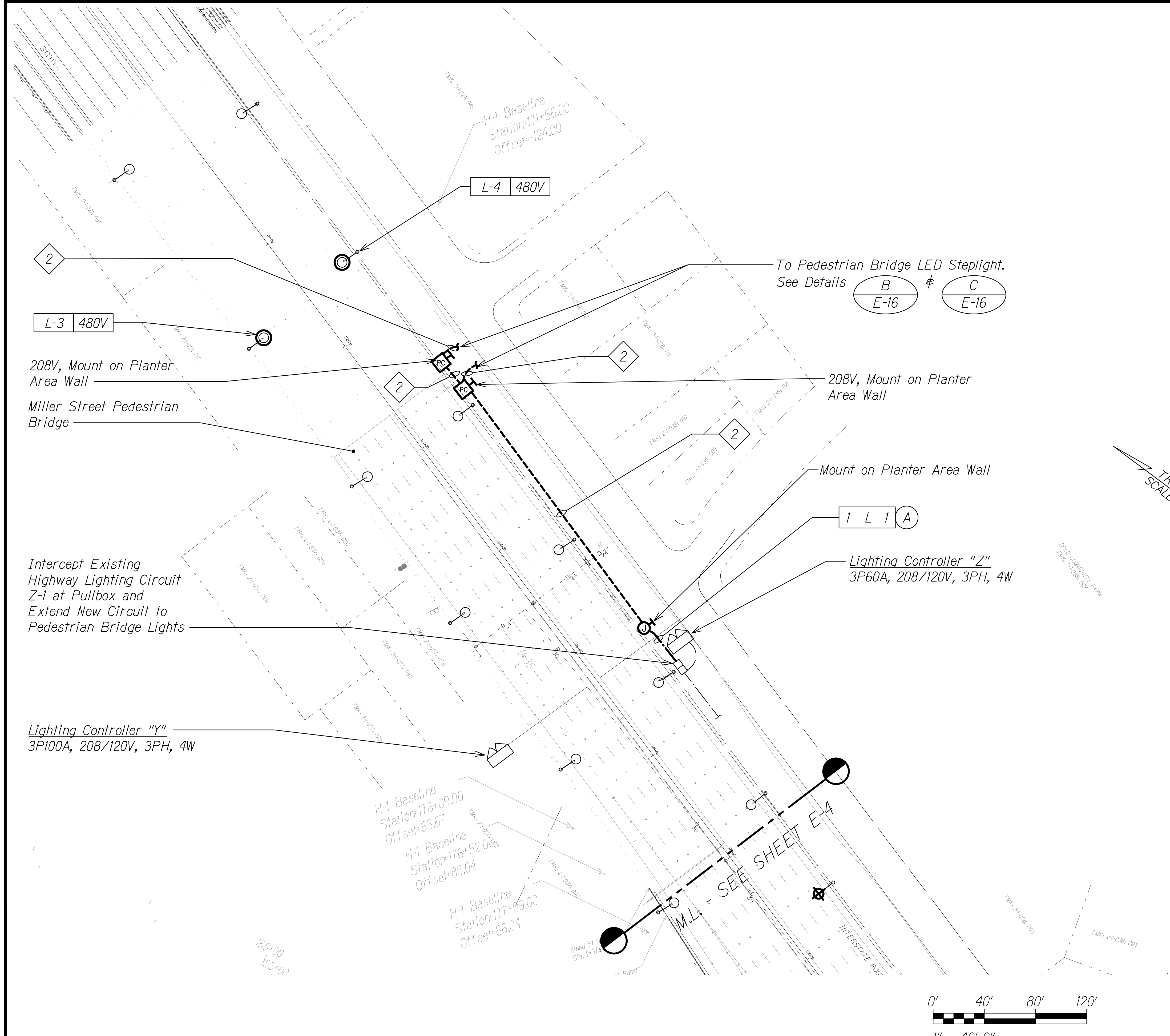
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - A**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M  
Scale: As Noted Date: August, 2018  
SHEET No. E-2 OF 20 SHEETS

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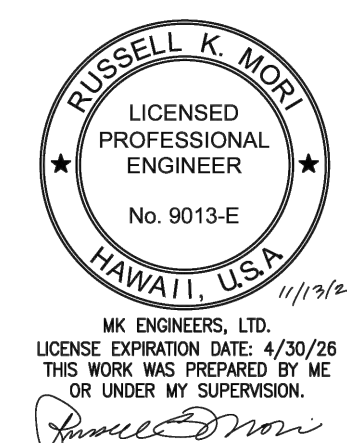
17051

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1JK-01-17M	2024	305	381



**HIGHWAY LIGHTING PLAN - B**  
SCALE: 1" = 40'-0"

- NOTES:**
- 1. Light Lines Denote Existing Condition
  - 2. Bold Lines Denote New Work
  - 3. 3/4" PVC Coated GRC, 2#10, #10 Gnd



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HIGHWAY LIGHTING PLAN - B**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M

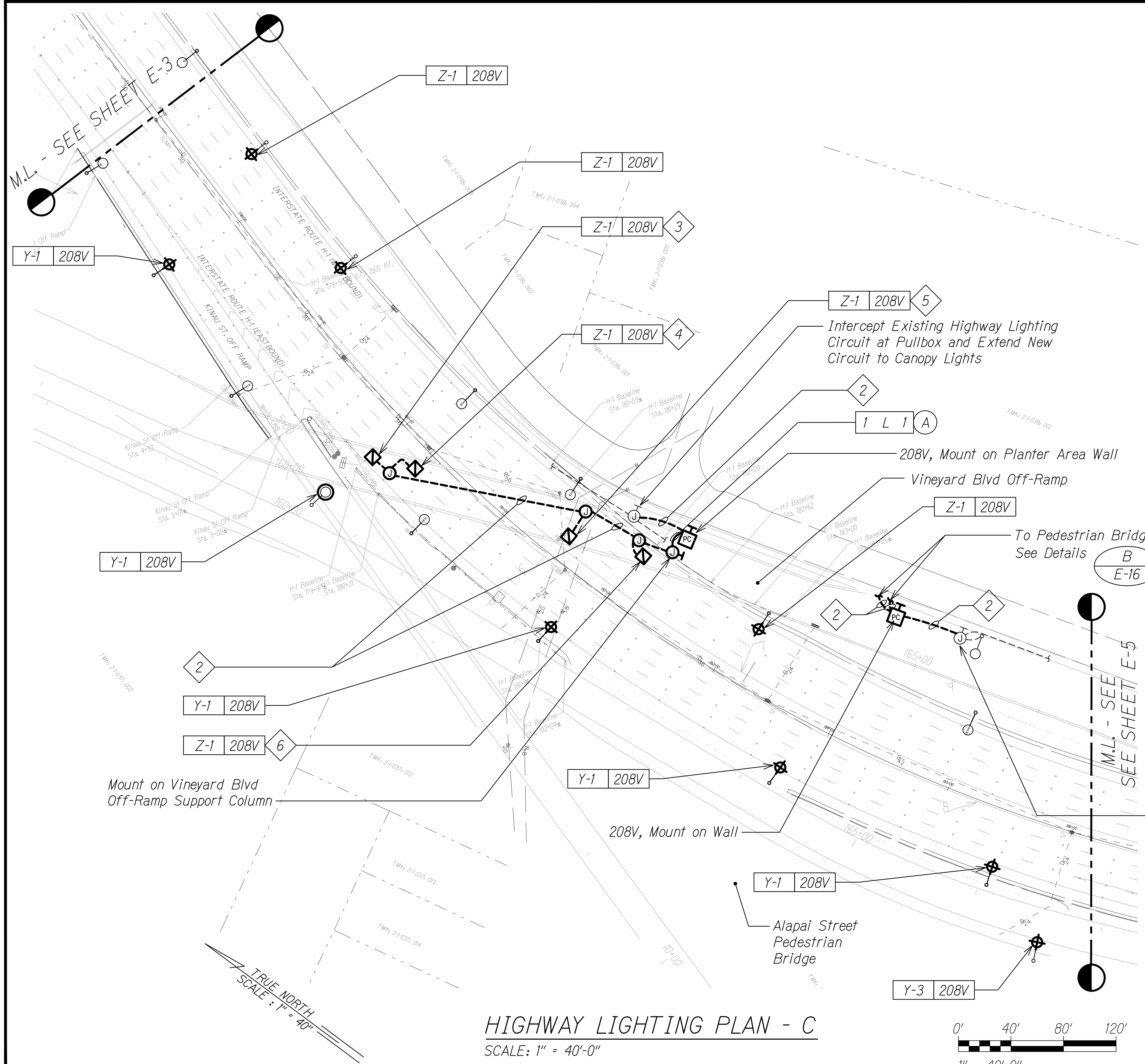
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SHEET No. E-3 OF 20 SHEETS

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C:\Users\ngk\OneDrive\Documents\PROJECTS\2017\17051\_H1\_MillerPO\Map01\_dwg\17051\_E03\_ETD\_Highway\_Plan\_B\_71720203.03.23.dwg, Page: 11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	306	381



- NOTES:**
- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
  - 3/4" PVC Coated GRC, 2#10, #10 Gnd
  - Mount 7'-0" from East Edge of Overpass and at the Middle of the Lane Below. Measure from the Center of the Fixture.
  - Mount 7'-6" from East Edge of Overpass and at the Middle of the Lane Below. Measure from the Center of the Fixture.
  - Mount 7'-6" from West Edge of Overpass and at the Dividing Line of the Two Lanes Below. Measure from the Center of the Fixture.
  - Mount 8'-0" from West Edge of Overpass and at the Dividing Line of the Two Lanes Below, Measure from the Center of the Fixture.

Mount on Vineyard Blvd Off-Ramp Support Column

Intercept Existing Highway Lighting Circuit at Pullbox and Extend New Circuit to Canopy Lights

208V, Mount on Planter Area Wall  
Vineyard Blvd Off-Ramp

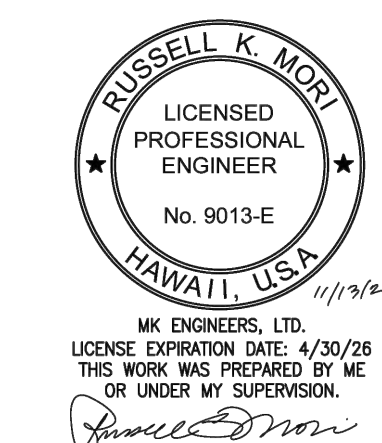
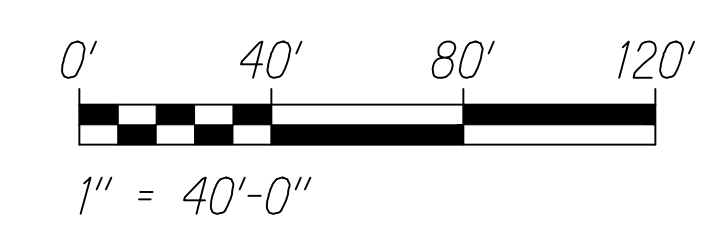
To Pedestrian Bridge LED Steplight. See Details B E-16 C E-16

208V, Mount on Wall

Intercept Existing Highway Lighting Circuit Y-2 at Pullbox and Extend New Circuit to Pedestrian Bridge Lights

Alapai Street Pedestrian Bridge

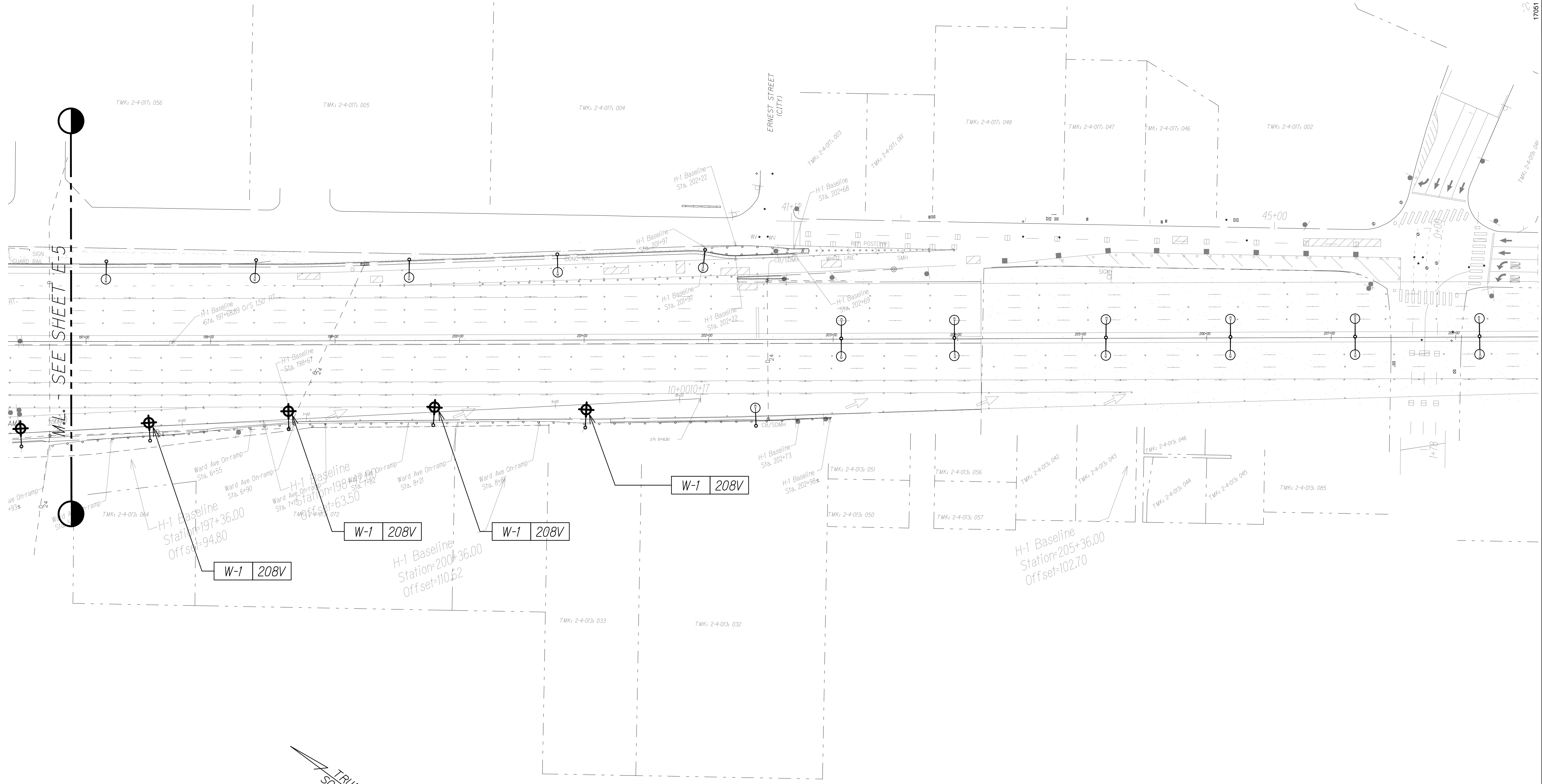
**HIGHWAY LIGHTING PLAN - C**  
SCALE: 1" = 40'-0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - C**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M  
Scale: As Noted Date: August, 2018  
SHEET No. E-4 OF 20 SHEETS

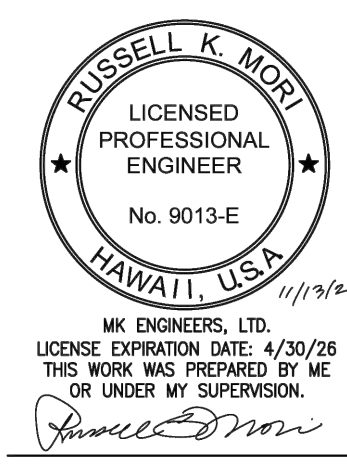
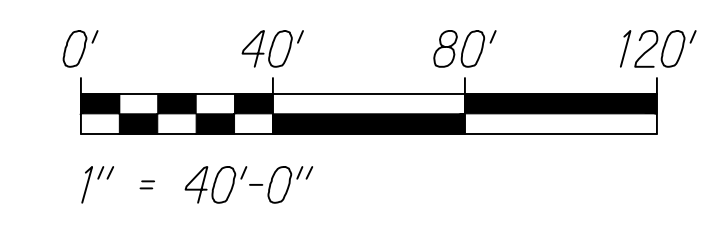


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1JK-01-17M	2024	308	381



**HIGHWAY LIGHTING PLAN - E**  
 SCALE: 1" = 40'-0"

- NOTES:**
- Light Lines Denote Existing Condition
  - Bold Lines Denote New Work



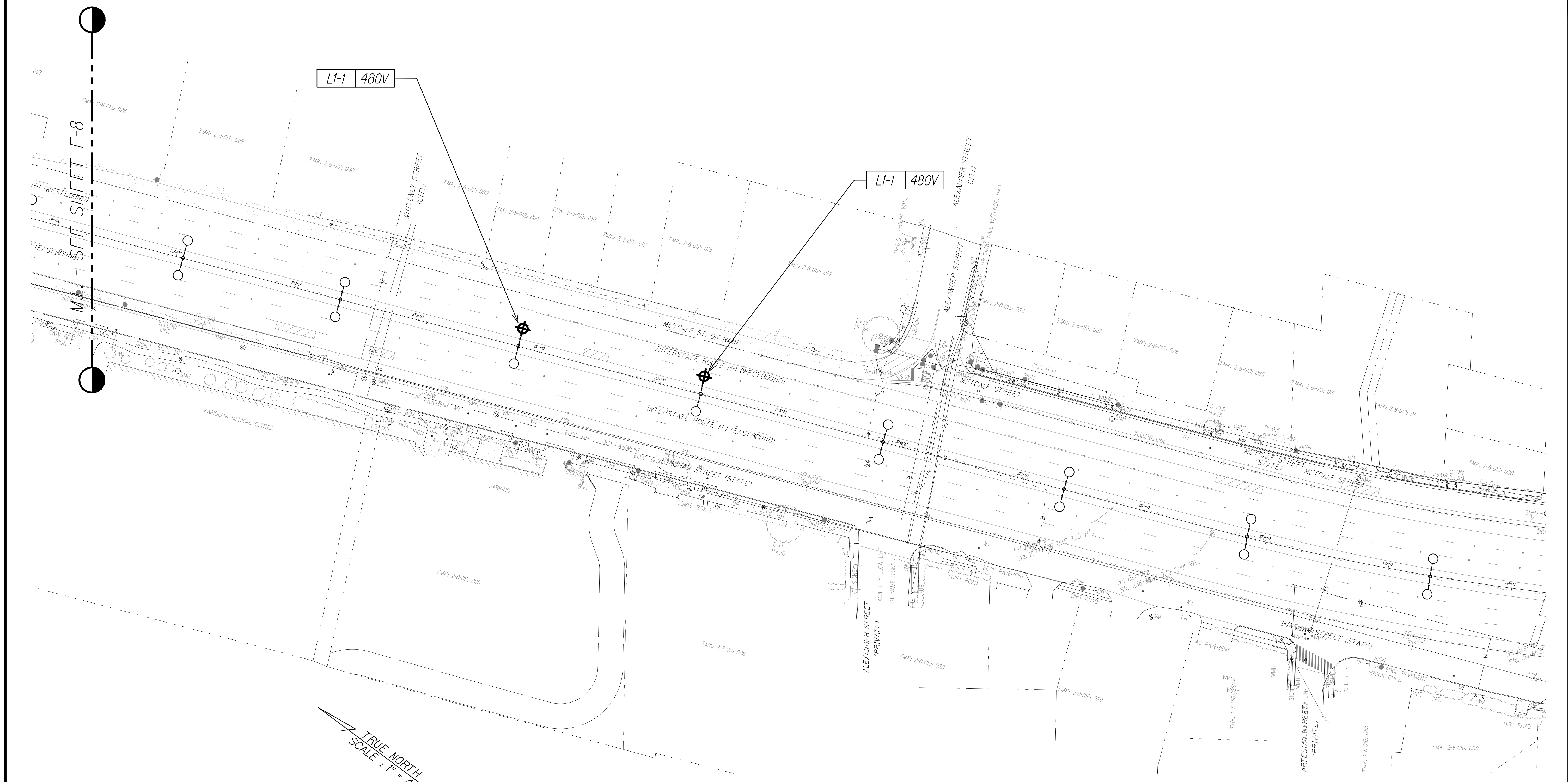
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - E**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H1JK-01-17M  
 Scale: As Noted Date: August, 2018  
 SHEET No. E-6 OF 20 SHEETS





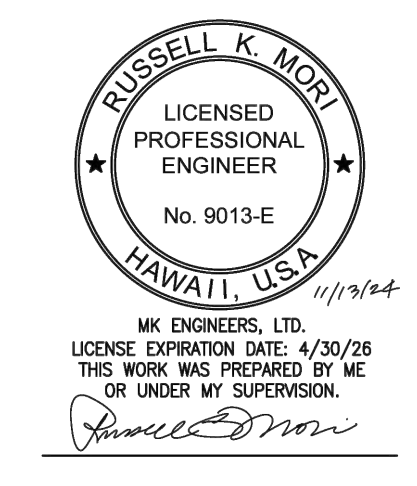
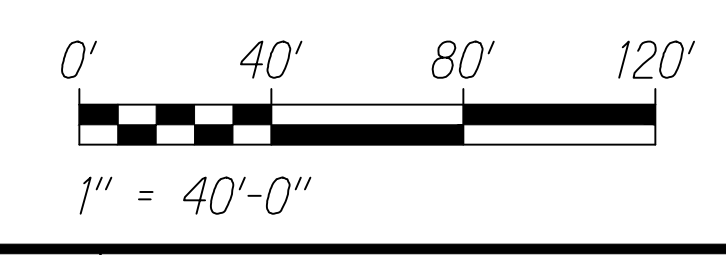


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	311	381



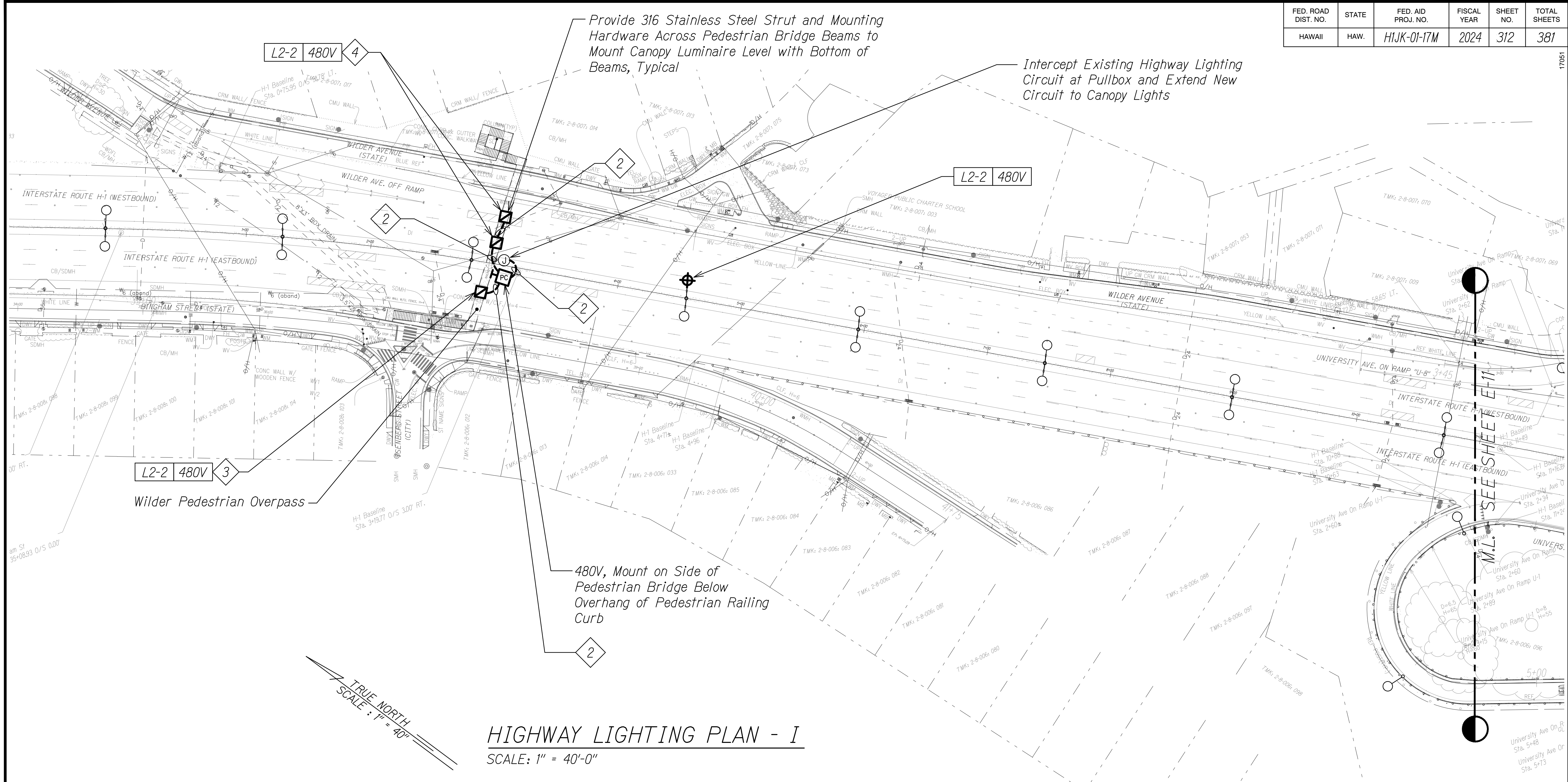
**HIGHWAY LIGHTING PLAN - H**  
 SCALE: 1" = 40'-0"

- NOTES:**
- 1. Light Lines Denote Existing Condition
  - 2. Bold Lines Denote New Work



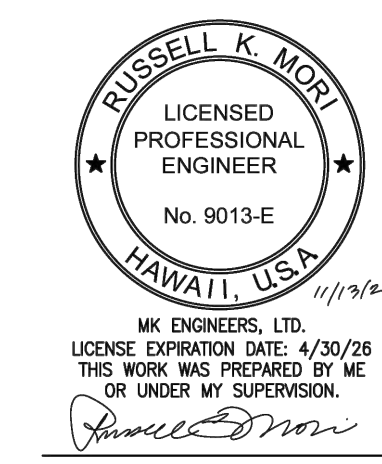
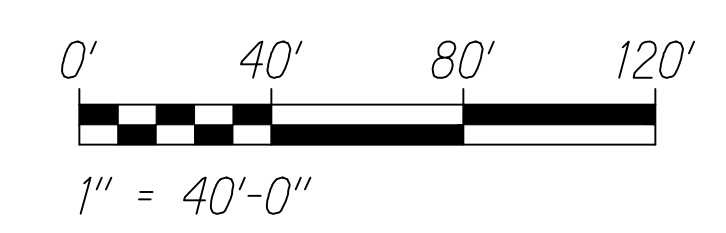
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - H**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIJK-01-17M  
 Scale: As Noted Date: August, 2018  
 SHEET No. E-9 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	312	381



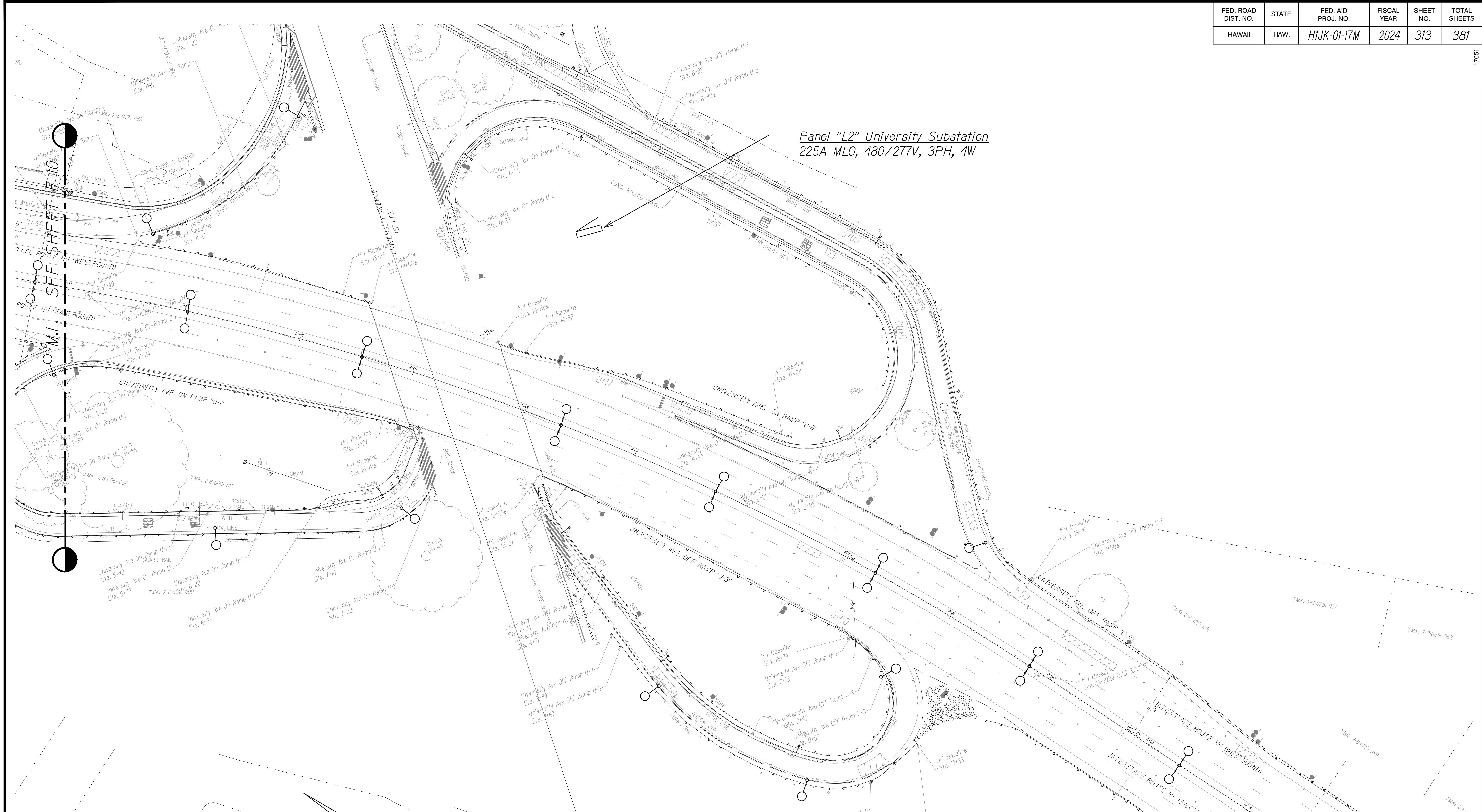
**HIGHWAY LIGHTING PLAN - I**  
 SCALE: 1" = 40'-0"

- NOTES:**
- 1.  Light Lines Denote Existing Condition
  - 2.  Bold Lines Denote New Work
  - 3.  3/4" PVC Coated GRC, 2#10, #10 Gnd.
  - 4.  Mount in Line with the Center of the Pedestrian Bridge and at the Middle of the Lane Below.



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - I**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIJK-01-17M  
 Scale: As Noted Date: August, 2018  
 SHEET No. E-10 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	313	381



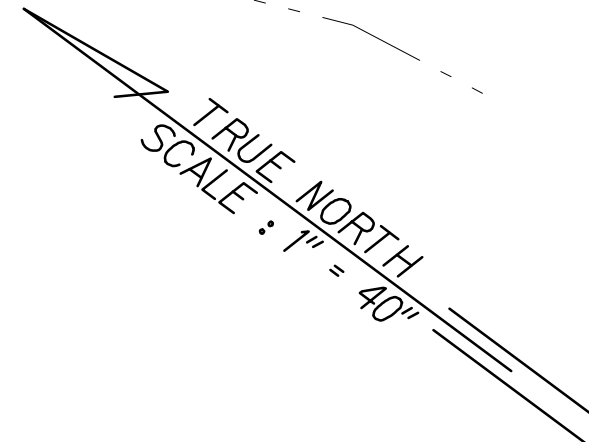
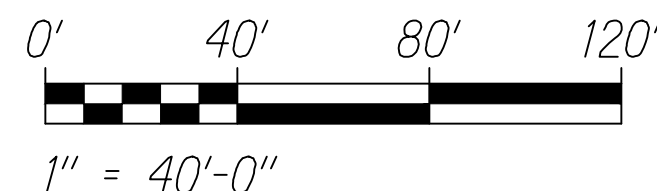
Panel "L2" University Substation  
225A MLO, 480/277V, 3PH, 4W

### HIGHWAY LIGHTING PLAN - J

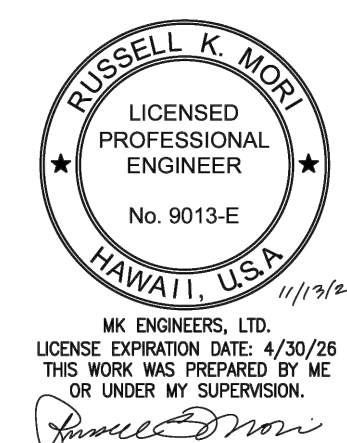
SCALE: 1" = 40'-0"

**NOTES:**

- All Items Shown Are Existing

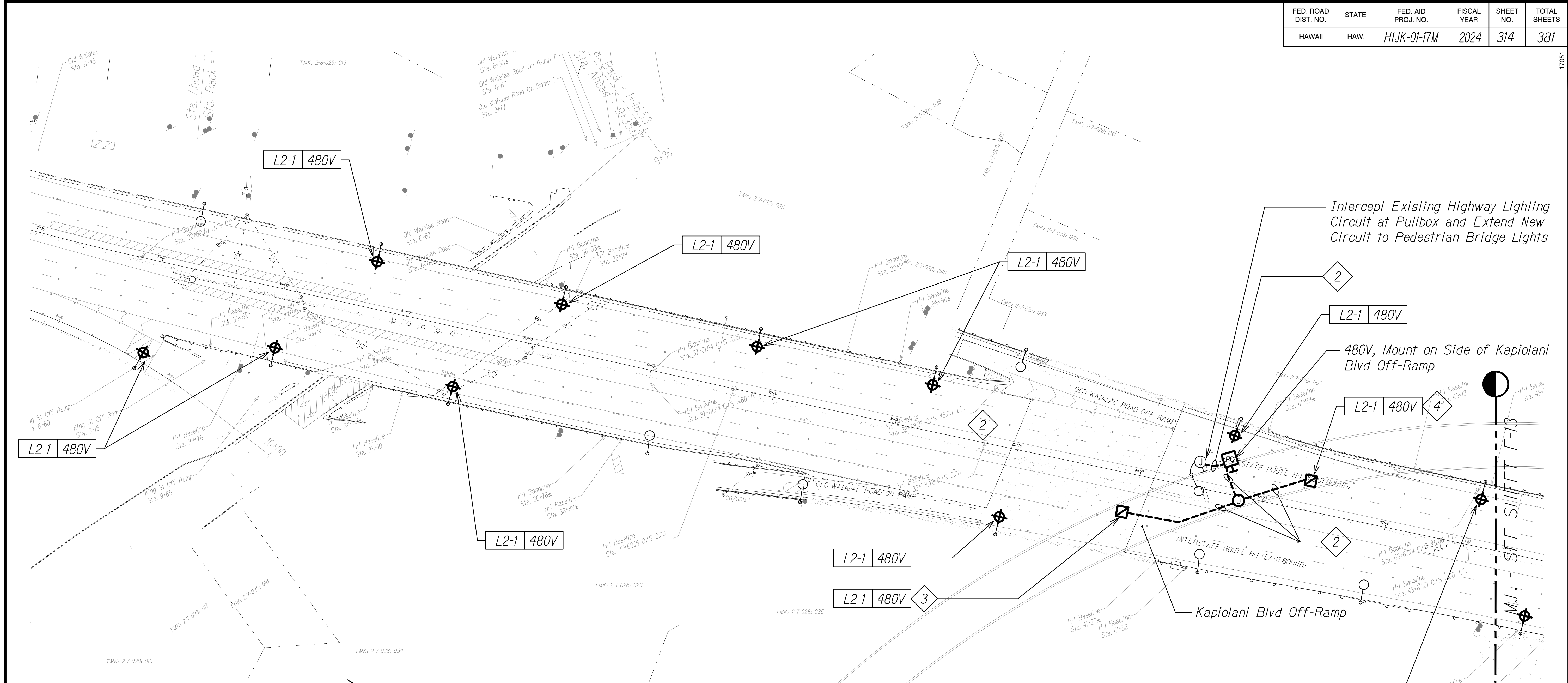


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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - J**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M  
Scale: As Noted Date: August, 2018  
SHEET No. E-11 OF 20 SHEETS

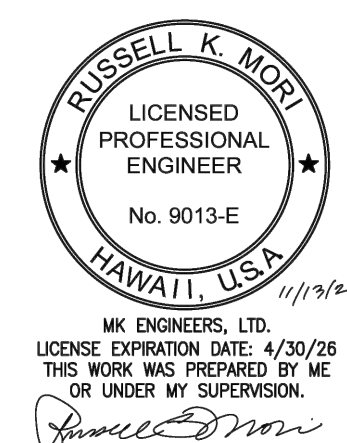
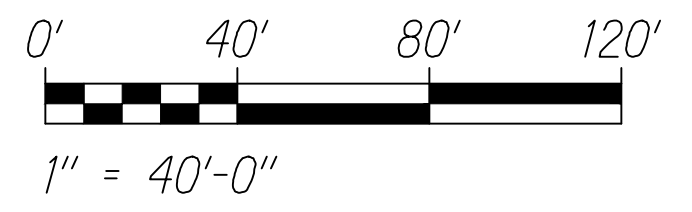
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	314	381



**HIGHWAY LIGHTING PLAN - K**  
SCALE: 1" = 40'-0"

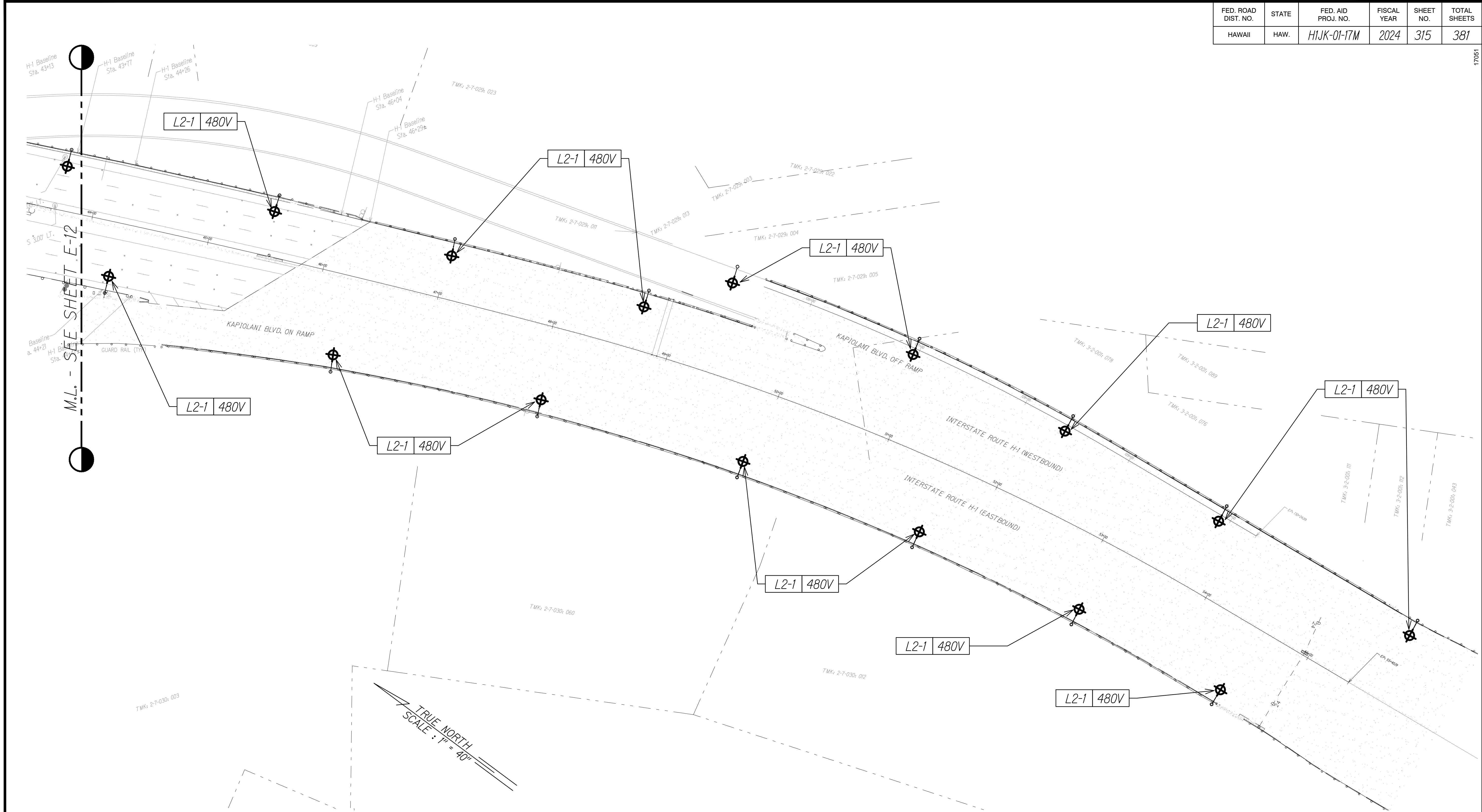
**NOTES:**

- 1.  Light Lines Denote Existing Condition
- 2.  Bold Lines Denote New Work
- 3. 2 3/4" PVC Coated GRC, 2#10, #10 Gnd.
- 4. 3 Mount 5'-0" from North Edge of Overpass and at the Middle of the Lane Below. Measure from the Center of the Fixture.
- 5. 4 Mount 6'-0" from South Edge of Overpass and at the Middle of the Lane Below. Measure from the Center of the Fixture.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - K**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M  
Scale: As Noted Date: August, 2018  
SHEET No. E-12 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	315	381

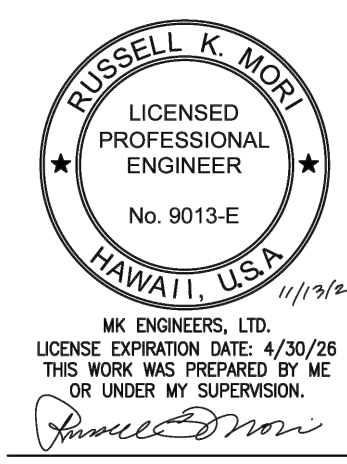
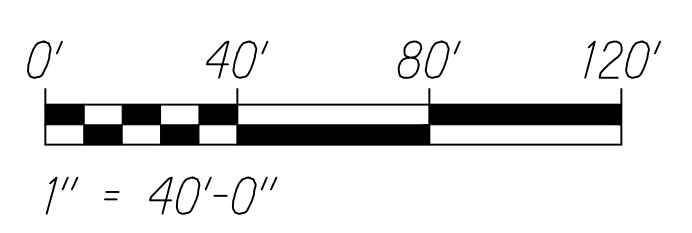


M.L. - SEE SHEET E-12

**HIGHWAY LIGHTING PLAN - L**  
 SCALE: 1" = 40'-0"

**NOTES:**

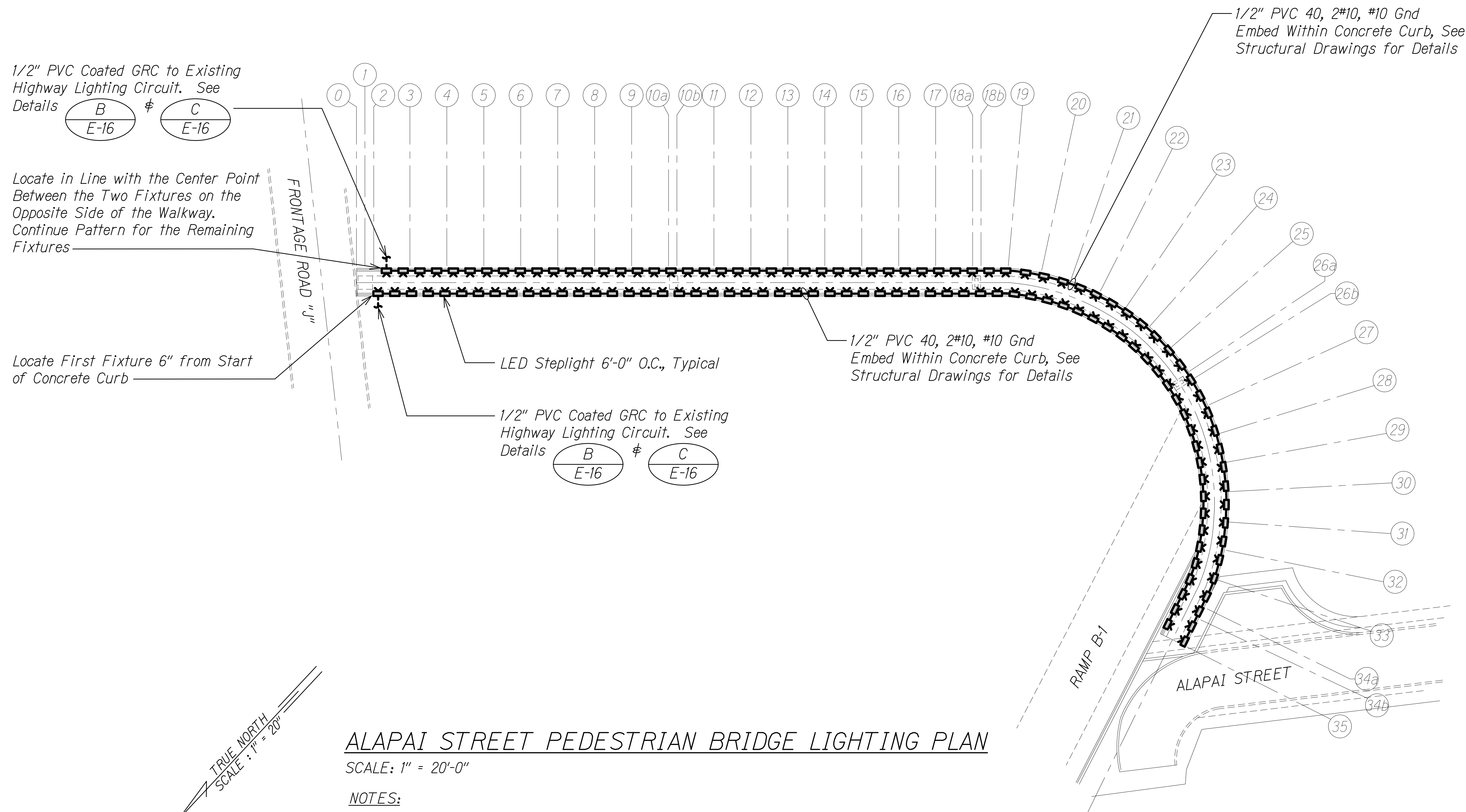
- Light Lines Denote Existing Condition
- Bold Lines Denote New Work



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY LIGHTING**  
**PLAN - L**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIJK-01-17M  
 Scale: As Noted Date: August, 2018  
 SHEET No. E-13 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	316	381

17051



1/2" PVC Coated GRC to Existing Highway Lighting Circuit. See Details  $\frac{B}{E-16}$   $\frac{C}{E-16}$

Locate in Line with the Center Point Between the Two Fixtures on the Opposite Side of the Walkway. Continue Pattern for the Remaining Fixtures

Locate First Fixture 6" from Start of Concrete Curb

LED Steplight 6'-0" O.C., Typical

1/2" PVC Coated GRC to Existing Highway Lighting Circuit. See Details  $\frac{B}{E-16}$   $\frac{C}{E-16}$

1/2" PVC 40, 2#10, #10 Gnd Embed Within Concrete Curb, See Structural Drawings for Details

1/2" PVC 40, 2#10, #10 Gnd Embed Within Concrete Curb, See Structural Drawings for Details

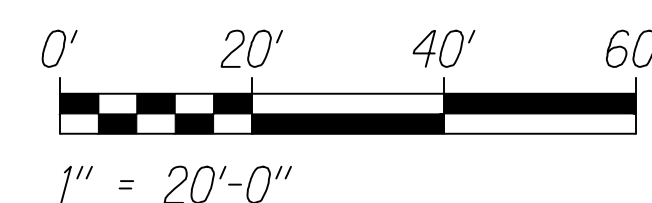
TRUE NORTH  
SCALE: 1" = 20'-0"

### ALAPAI STREET PEDESTRIAN BRIDGE LIGHTING PLAN

SCALE: 1" = 20'-0"

**NOTES:**

- 1.  Light Lines Denote Existing Condition
- Bold Lines Denote New Work



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ALAPAI ST. PEDESTRIAN  
BRIDGE LIGHTING PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M

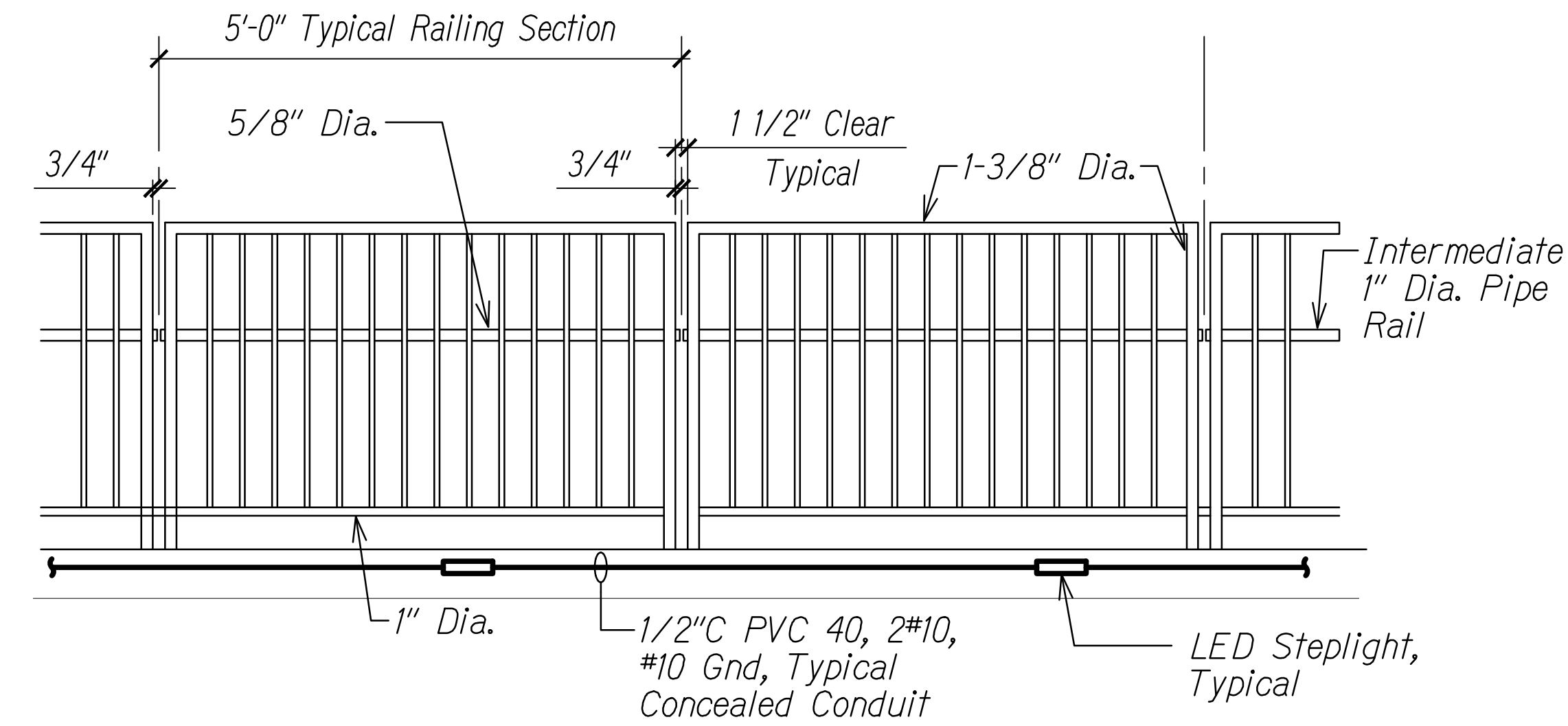
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SHEET No. E-14 OF 20 SHEETS

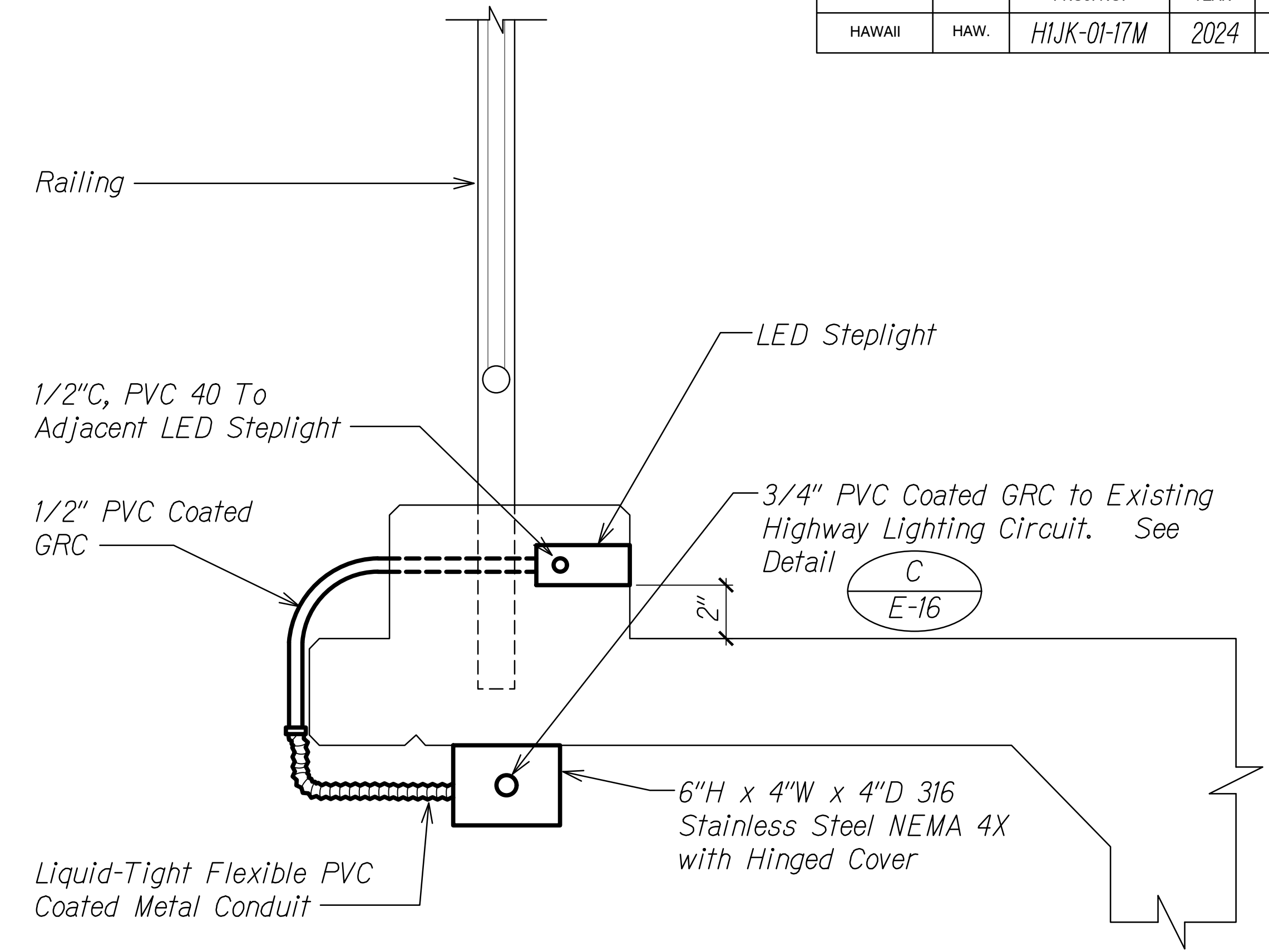
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1JK-01-17M	2024	318	381

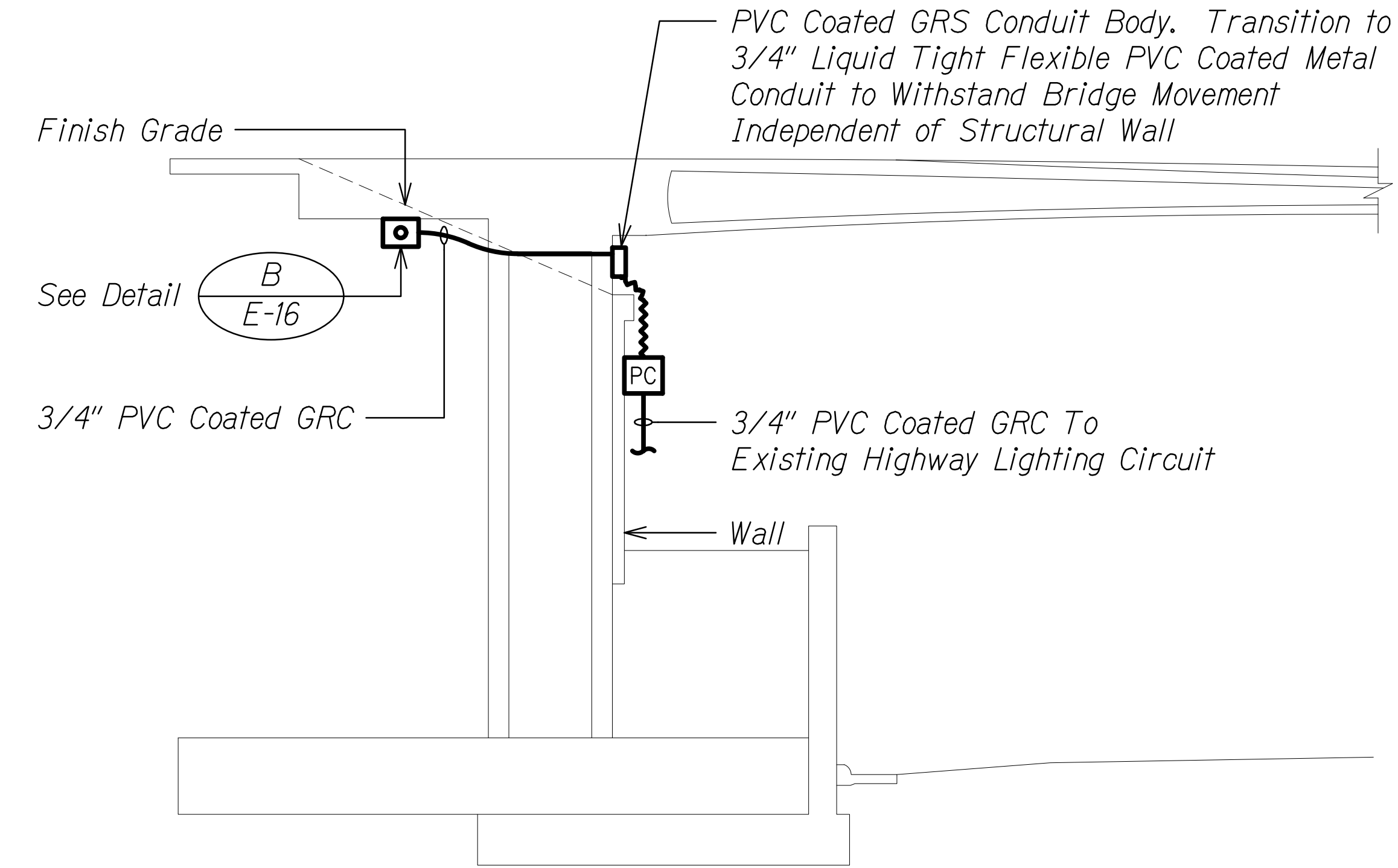


**A** PEDESTRIAN BRIDGE LIGHTING ELEVATION  
E-16 SCALE: 3/4" = 1'-0"



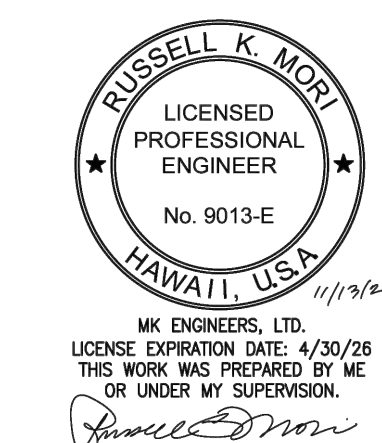
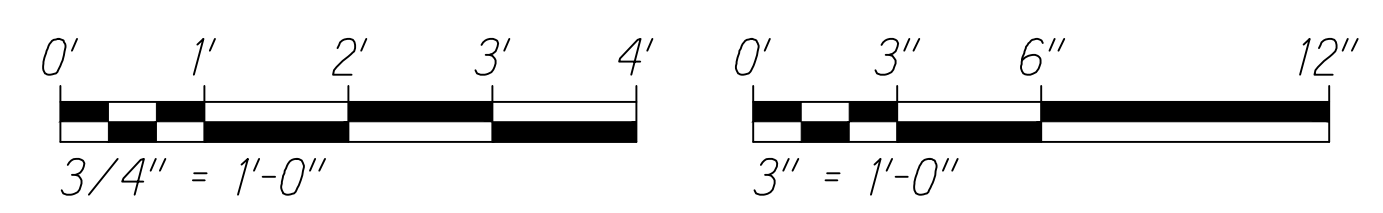
**B** PEDESTRIAN BRIDGE LIGHTING SECTION  
E-16 SCALE: 3" = 1'-0"

NOTES:  
1. See Structural Drawings for Concrete Curb Work.



**C** TYPICAL CONDUIT TRANSITION DETAIL  
E-16 NTS

GRAPHIC SCALES:



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

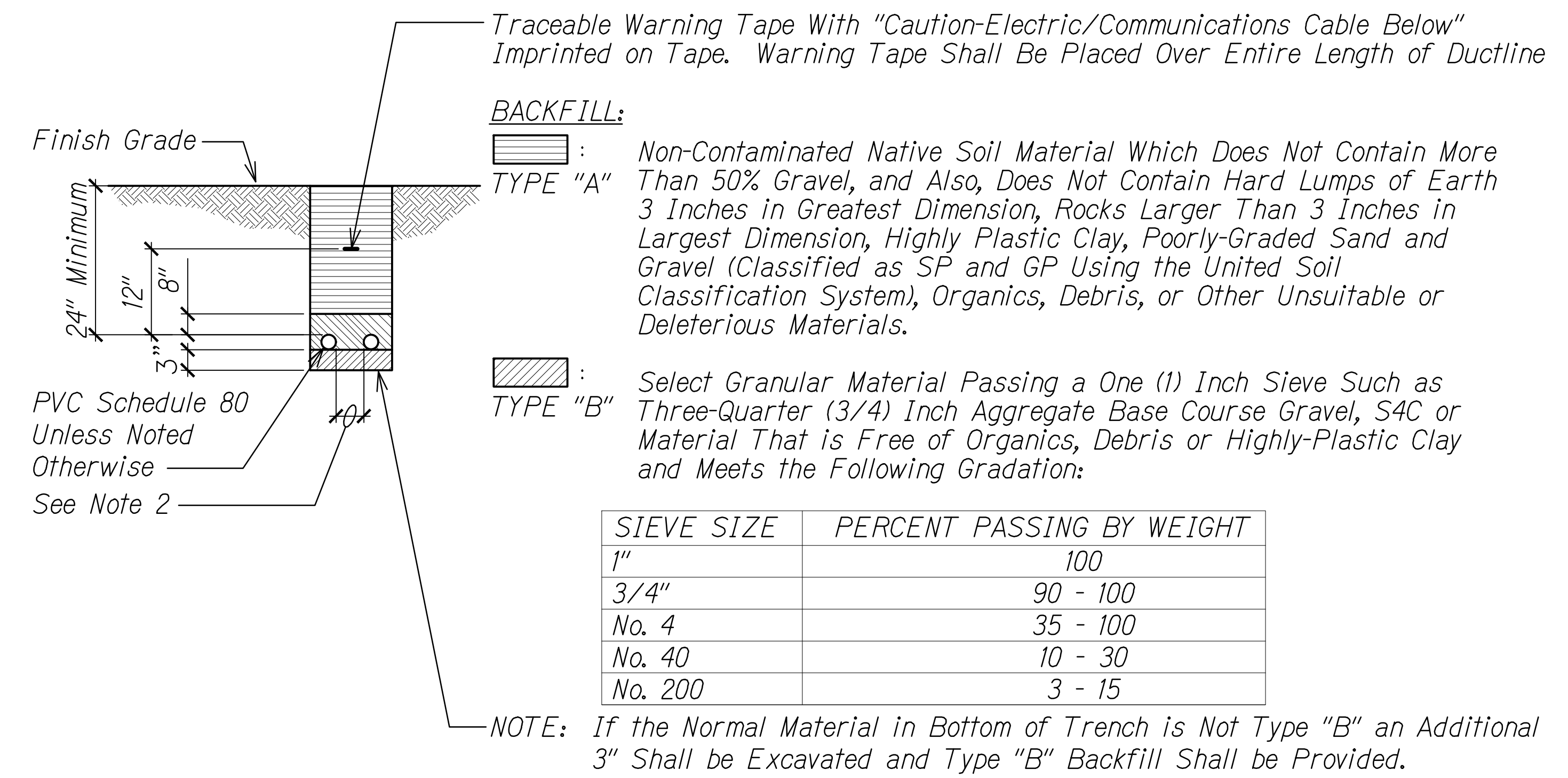
**TYPICAL DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M

Scale: As Noted Date: August, 2018

SHEET No. E-16 OF 20 SHEETS

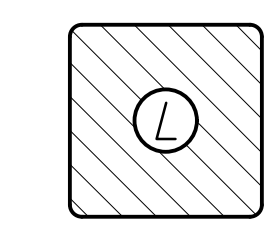




**A**  
E-17

**TYPICAL DUCT SECTION (DIRECT BURIED)**  
NTS

- NOTES:**
- Where Trench Encounters Existing Concrete or Asphalt Concrete, Surface Shall be Sawcut. Backfill, Compact and Patch Surface to Match Adjacent Area. See Trench Restoration Detail.
  - Provide 3" Separation Between Ducts of Same System and 12" Separation Between Electrical Ducts and Ducts of Different Systems.



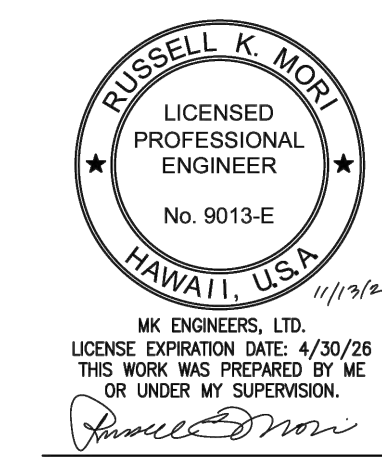
**DUCT SECTION A**

**B**  
E-17

**DUCT SECTION DETAIL**  
NTS

- NOTES:**
- For Dimensions, See **A** E-17.

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

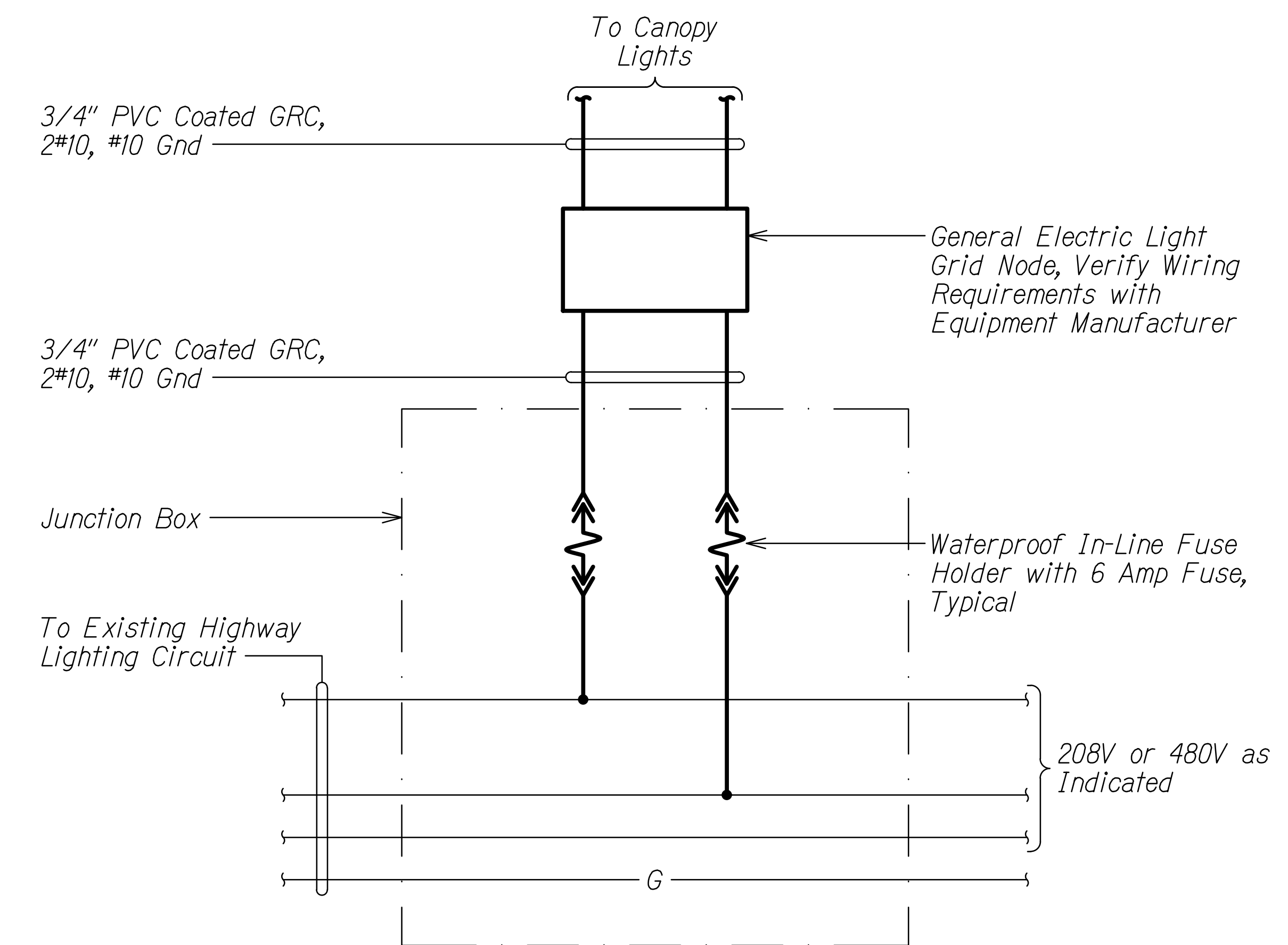
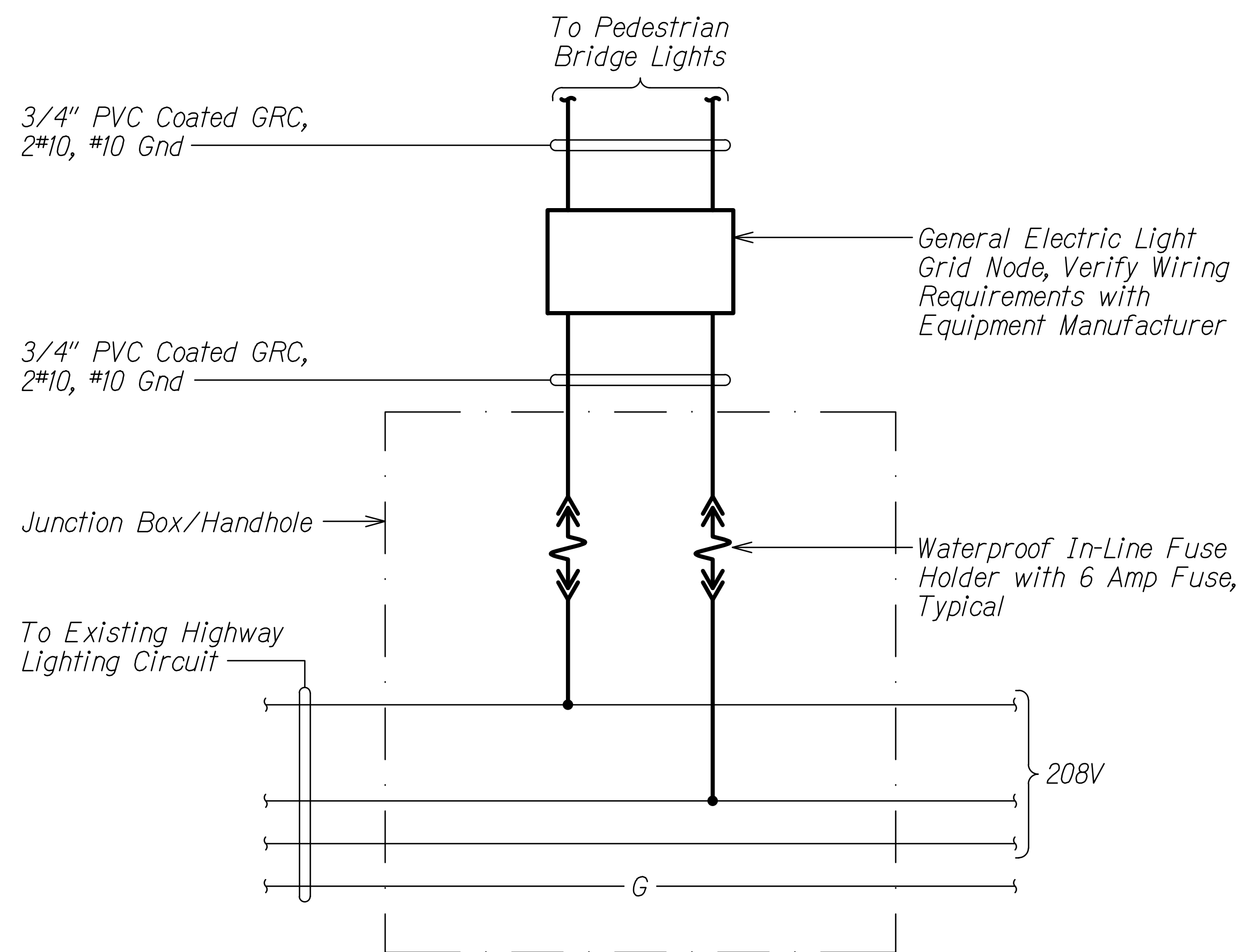
**DUCT SECTION DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M

Scale: As Noted Date: August, 2018

SHEET No. E-17 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1JK-01-17M	2024	320	381



**A** TYPICAL PEDESTRIAN BRIDGE LIGHT WIRING DIAGRAM  
E-18 No Scale

**B** TYPICAL CANOPY LIGHT WIRING DIAGRAM  
E-18 No Scale

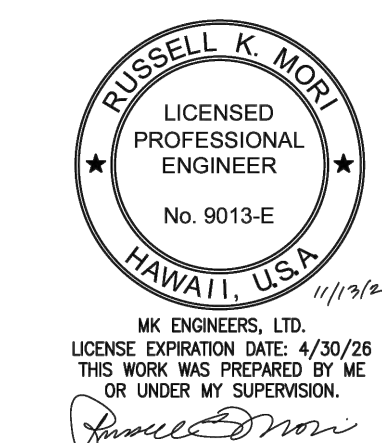
**NOTES:**

- Light Lines Denote Existing Condition
- Bold Lines Denote New Work

**NOTES:**

- Light Lines Denote Existing Condition
- Bold Lines Denote New Work

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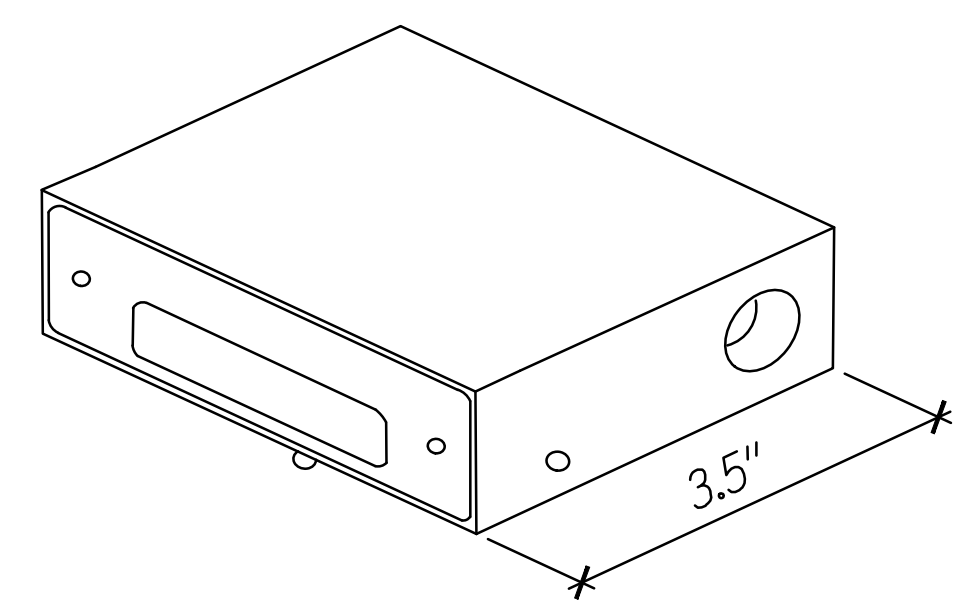
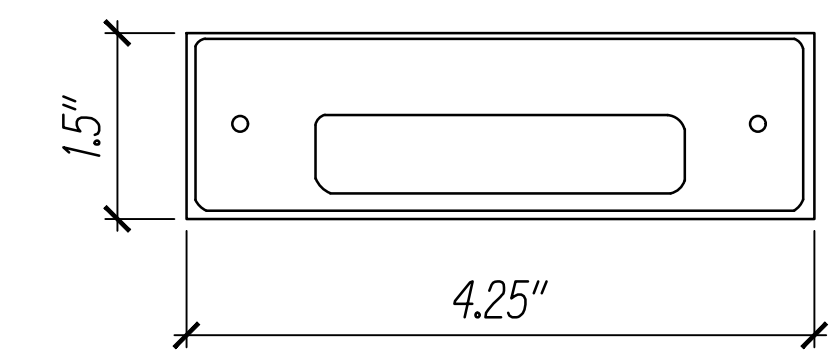
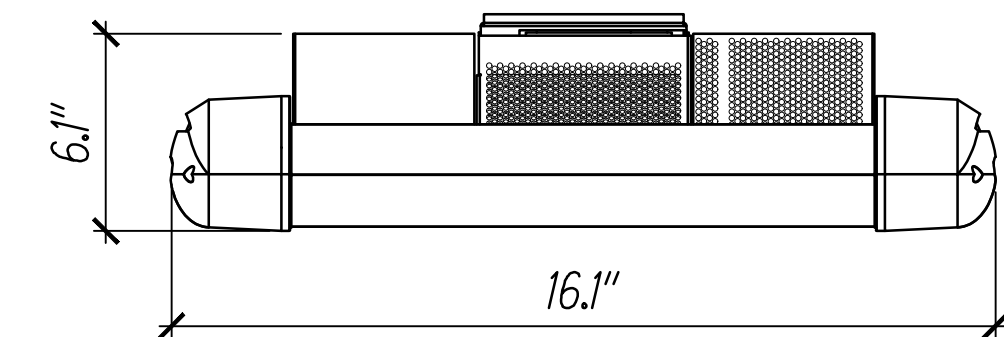
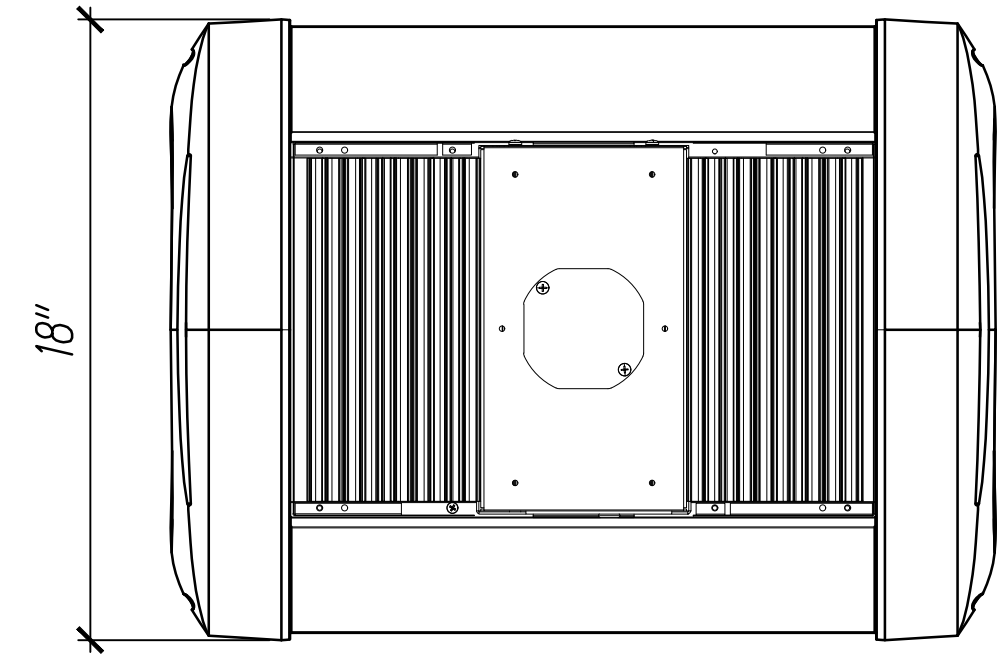
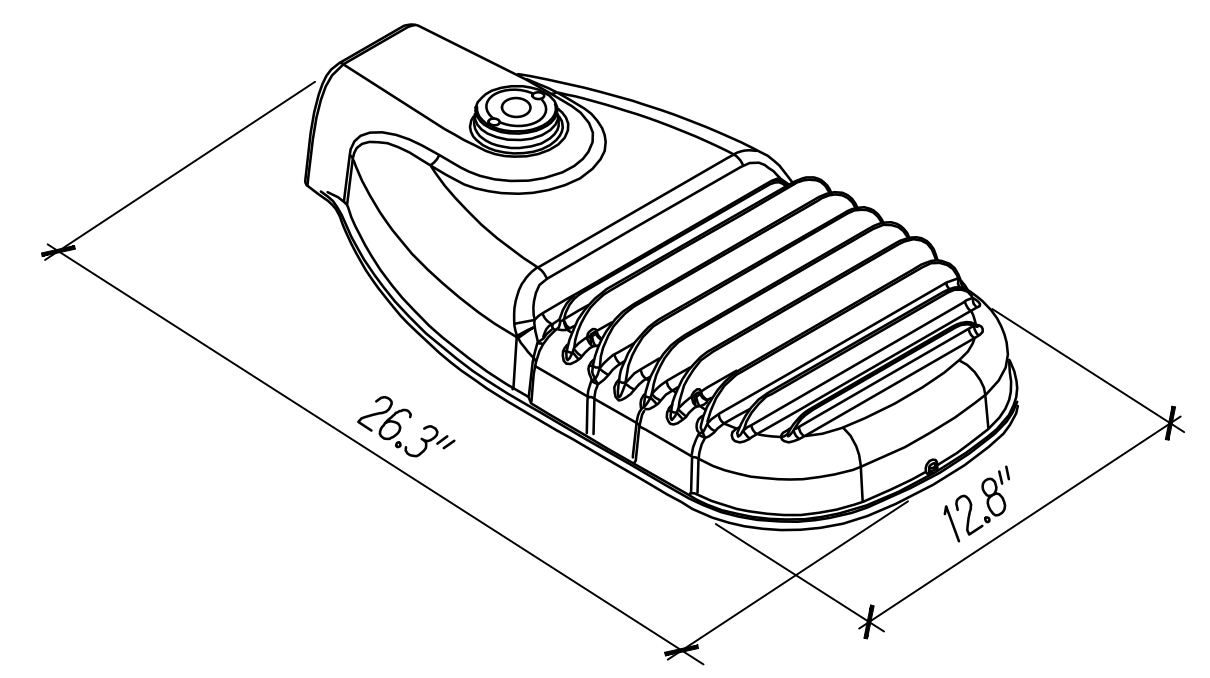
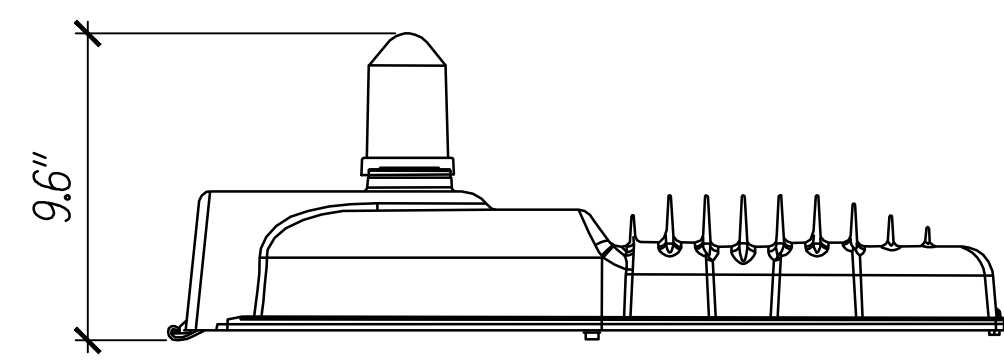
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL WIRING DIAGRAMS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M

Scale: As Noted Date: August, 2018

SHEET No. E-18 OF 20 SHEETS



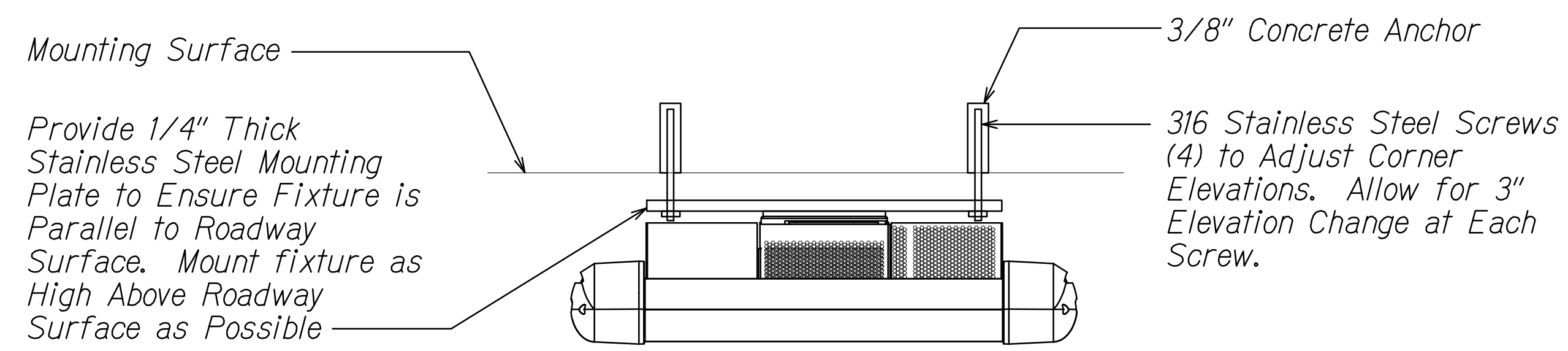
Symbol	Description
	Die Cast Aluminum Housing With Coastal Finish and Corrosion Resistant Powder Finish, Impact Resistant Tempered Glass Lens, Tool Less Entry, 7 Pin Receptacle, 0-10V Dimming, Horizontal Slipfitter With Adjustment, Suitable for DOT State Wireless Control, UL 1598 3G ANSI C135.31.2010, Bug Rating U=0

Symbol	Description
	Extruded Aluminum With Ultra-Durable Powder Top Coat Bronze Finish. Direct Mount Accessible From Below. IP-66 Rating

Symbol	Description
	316 Machined Stainless Steel Housing and Faceplate. 316 Stainless Steel Hardware, Silicone O-Rings Hermetically Seal and Protect Fixture

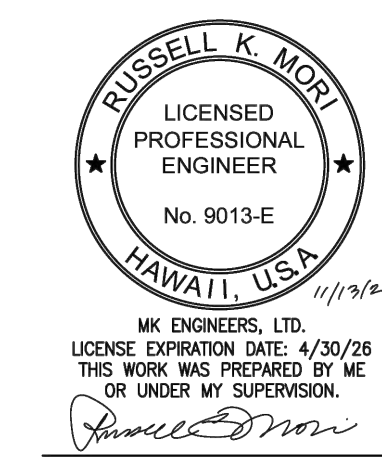
### LIGHT FIXTURE DETAILS

No Scale



### CANOPY LUMINAIRE MOUNTING DETAIL

No Scale



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

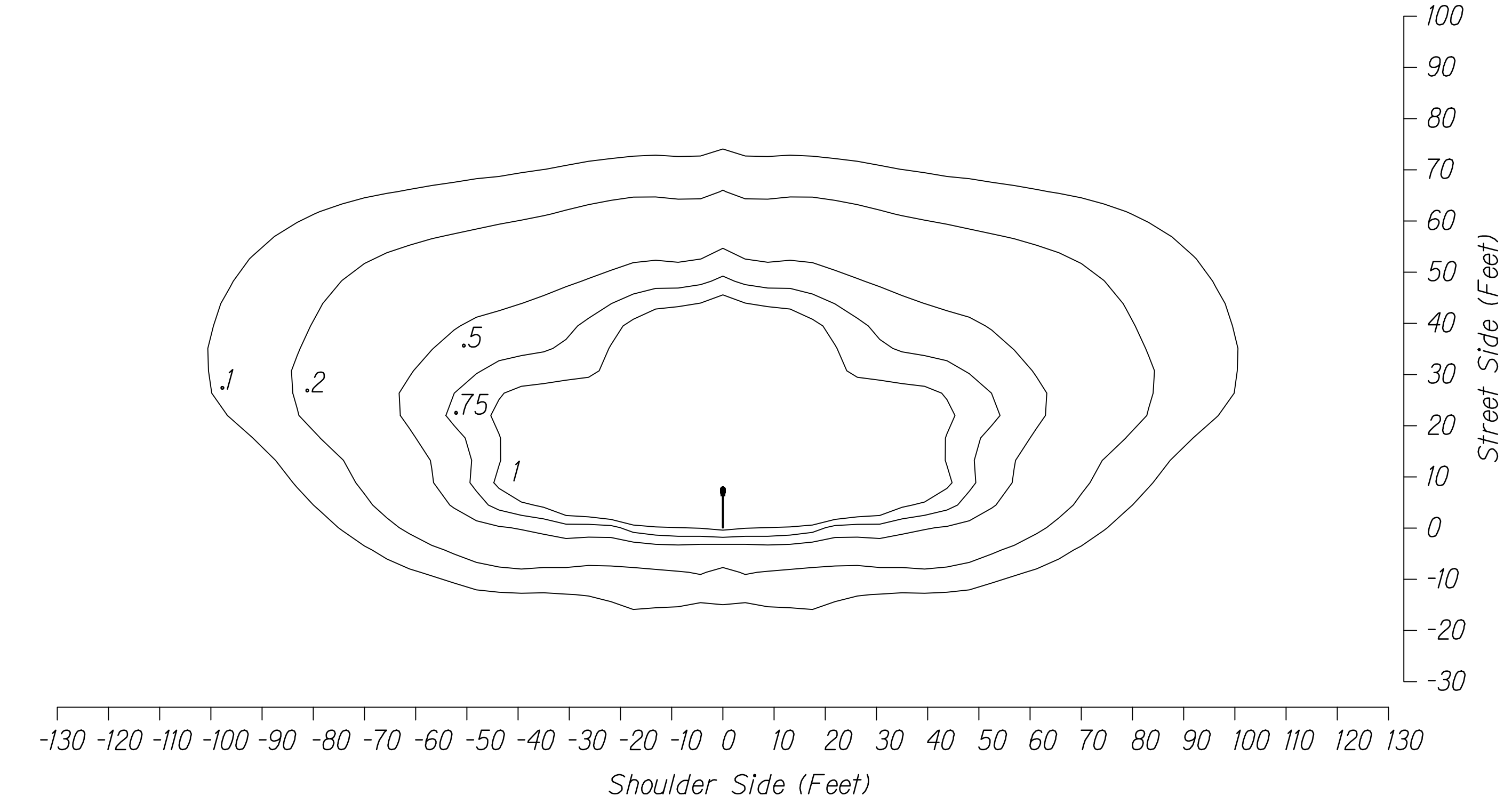
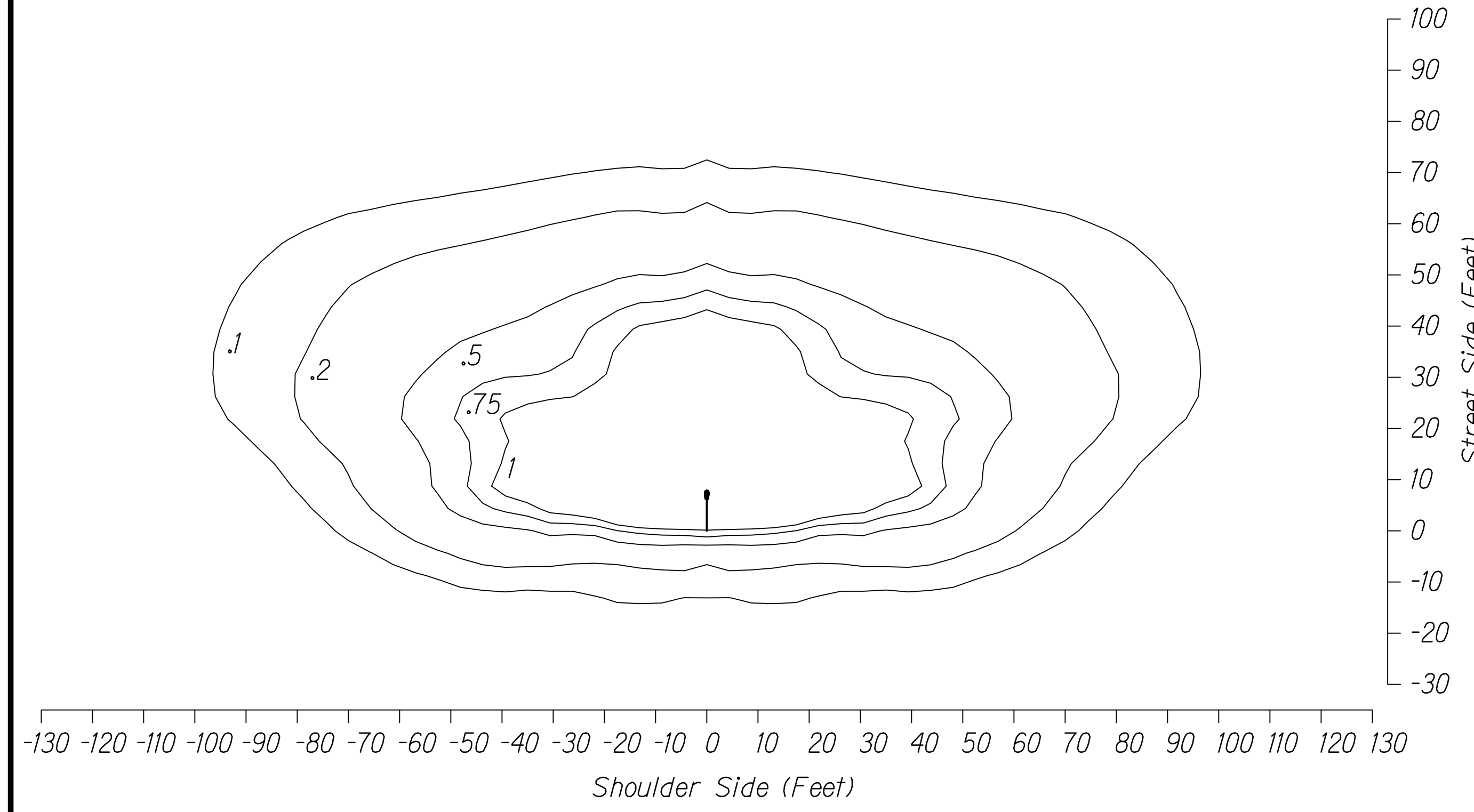
**LIGHT FIXTURE DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H1JK-01-17M

Scale: As Noted Date: August, 2018

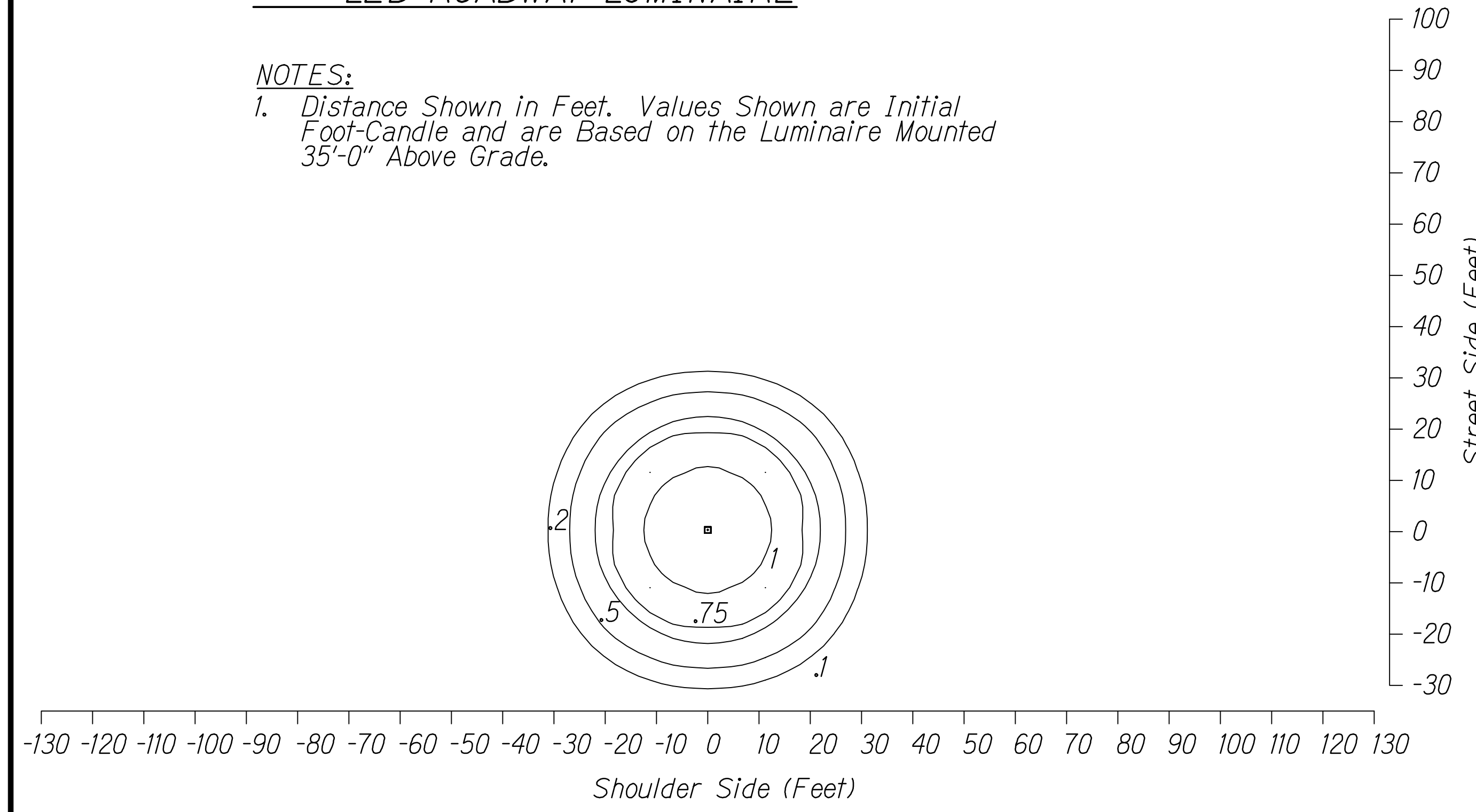
SHEET No. E-19 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	322	381



**LED ROADWAY LUMINAIRE**

**NOTES:**  
 1. Distance Shown in Feet. Values Shown are Initial Foot-Candle and are Based on the Luminaire Mounted 35'-0" Above Grade.

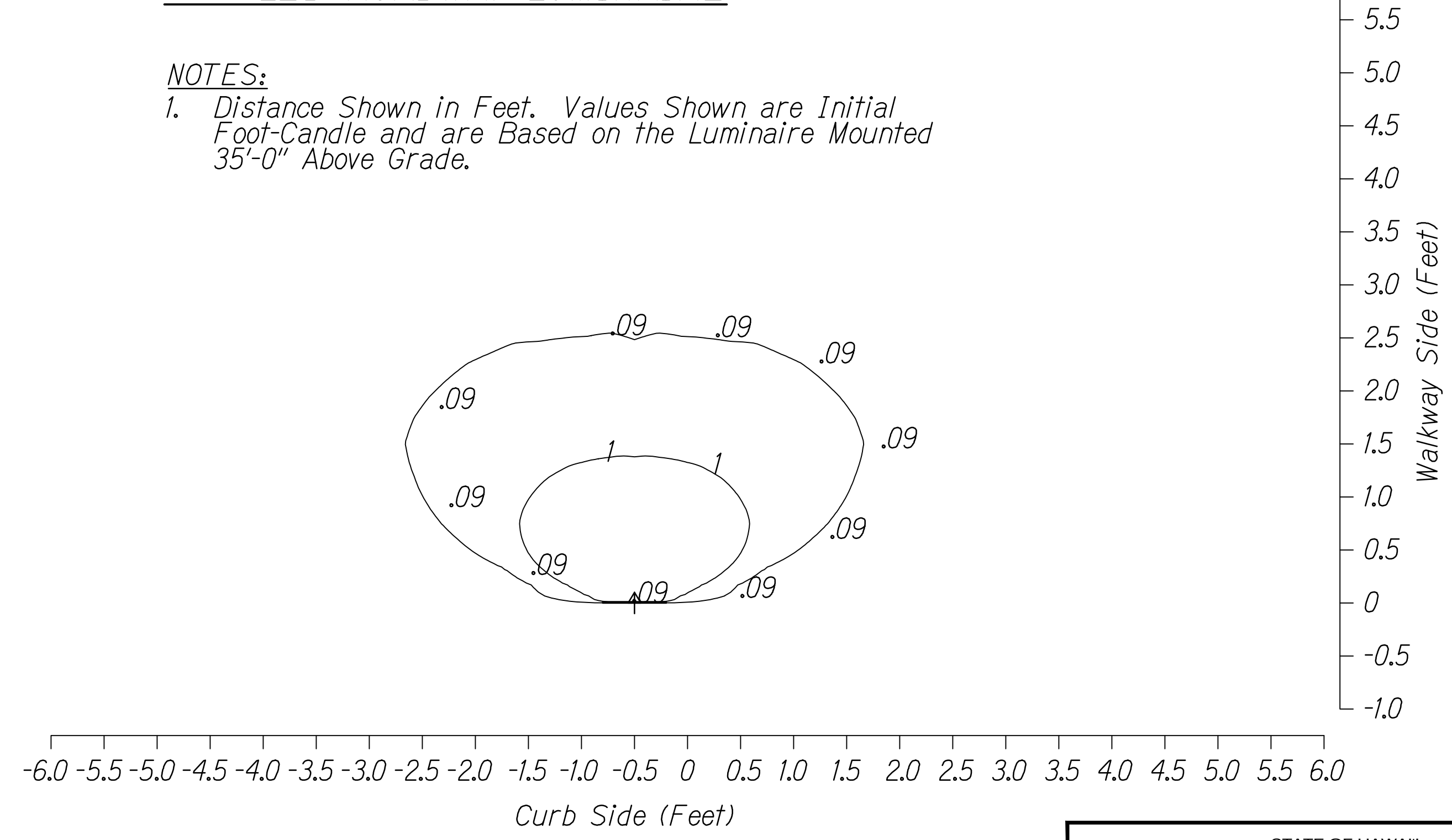


**LED CANOPY LUMINAIRE**

**NOTES:**  
 1. Distance Shown in Feet. Values Shown are Initial Foot-Candle and are Based on the Luminaire Mounted 18'-0" Above Grade.

**LED ROADWAY LUMINAIRE**

**NOTES:**  
 1. Distance Shown in Feet. Values Shown are Initial Foot-Candle and are Based on the Luminaire Mounted 35'-0" Above Grade.

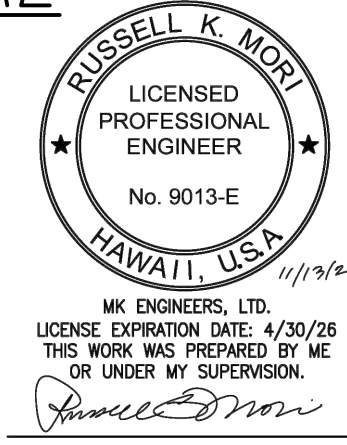


**PEDESTRIAN BRIDGE LUMINAIRE**

**NOTES:**  
 1. Distance Shown in Feet. Values Shown are Initial Foot-Candle and are Based on the Luminaire Mounted 0'-2" Above Grade.

**PHOTOMETRIC DATA - ISO FOOT-CANDLE CURVE**

NTS



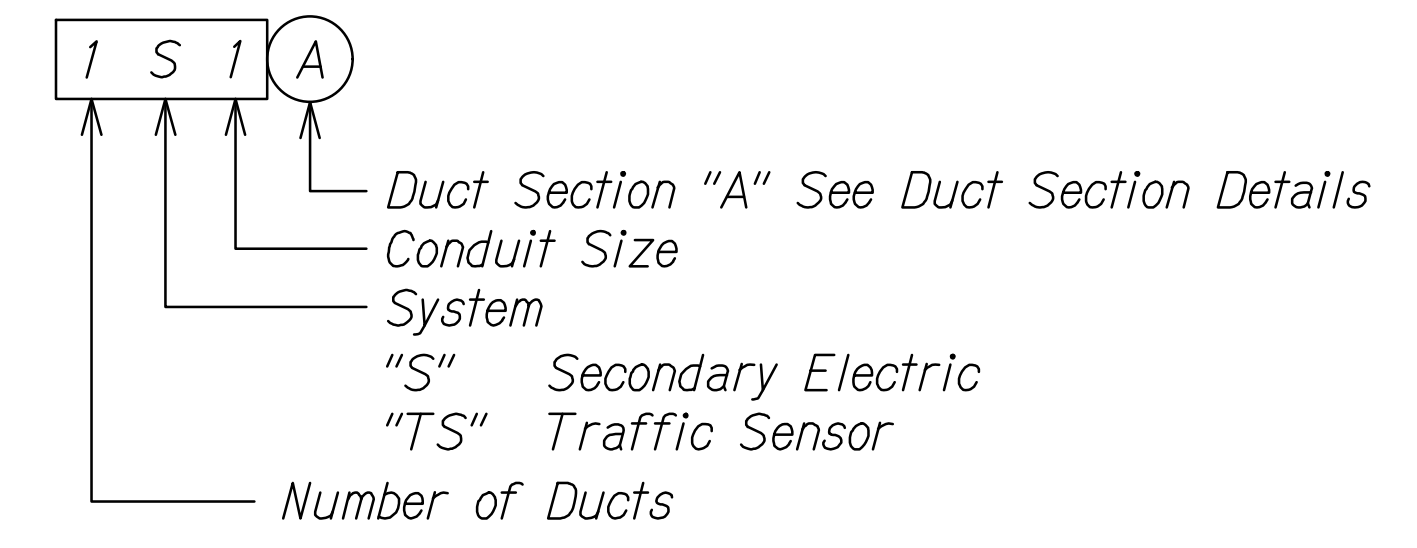
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**PHOTOMETRIC DATA**  
**ISO FOOT-CANDLE CURVE**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIJK-01-17M  
 Scale: As Noted Date: August, 2018  
 SHEET No. E-20 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-(279)R	2021	323	381

**GENERAL NOTES:**

- Extra Care Shall be Taken While Excavating for Ductlines. Contractor Shall Tone for Location of Utility Lines Prior to Excavation.
- Provide 316 Stainless Steel Mounting Hardware and Fasteners for All Equipment.
- All Above Grade Conduit Shall be PVC Coated GRC.

**DUCT DESIGNATION**



**ELECTRICAL SYMBOL**

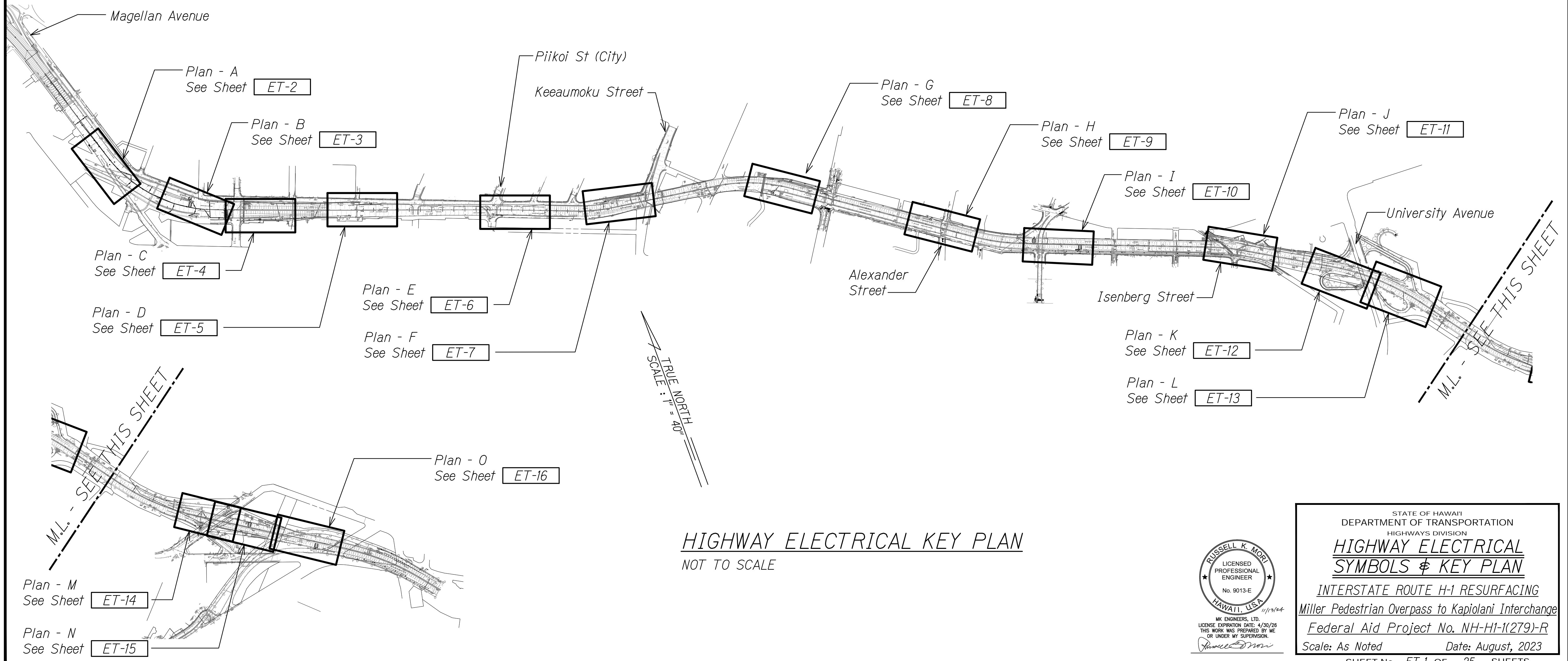
- Junction Box, 316 Stainless Steel with Hinged Cover, Size as Indicated on Drawings
- PVC Coated GRS Conduit Body
- Panelboard
- Type "A" Pullbox, HDOT Standard TE-37
- Type "B" Pullbox, HDOT Standard TE-37
- Equipment Connection
- Underground Ductline
- Exposed Conduit
- Conduit Stub
- Solar Panel and Pole Assembly, See Detail A  
ET-19

**ONE-LINE SYMBOL**

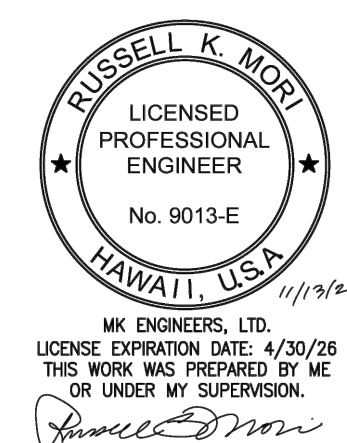
- Panelboard
- Molded Case Circuit Breaker
- Safety Switch, Fused
- Transformer
- Ground Connection
- Watt-Hour Meter

**ABBREVIATIONS**

A	Amp	K	Kelvin
D	Depth	MLO	Main Lugs Only
Dia	Diameter	MPH	Miles Per Hour
Fc	Foot-Candle	NTS	Not to Scale
Ft	Feet	O.C.	On Center
Ft Lb	Foot-Pound	Ph	Phase
Gnd	Ground	PVC	Polyvinyl Chloride
GRC	Galvanized Rigid Conduit	V	Volt
GRS	Galvanized Rigid Steel	W	Watt
		W	Width
H	Height		
HDOT	Hawaii Department of Transportation		



**HIGHWAY ELECTRICAL KEY PLAN**  
NOT TO SCALE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

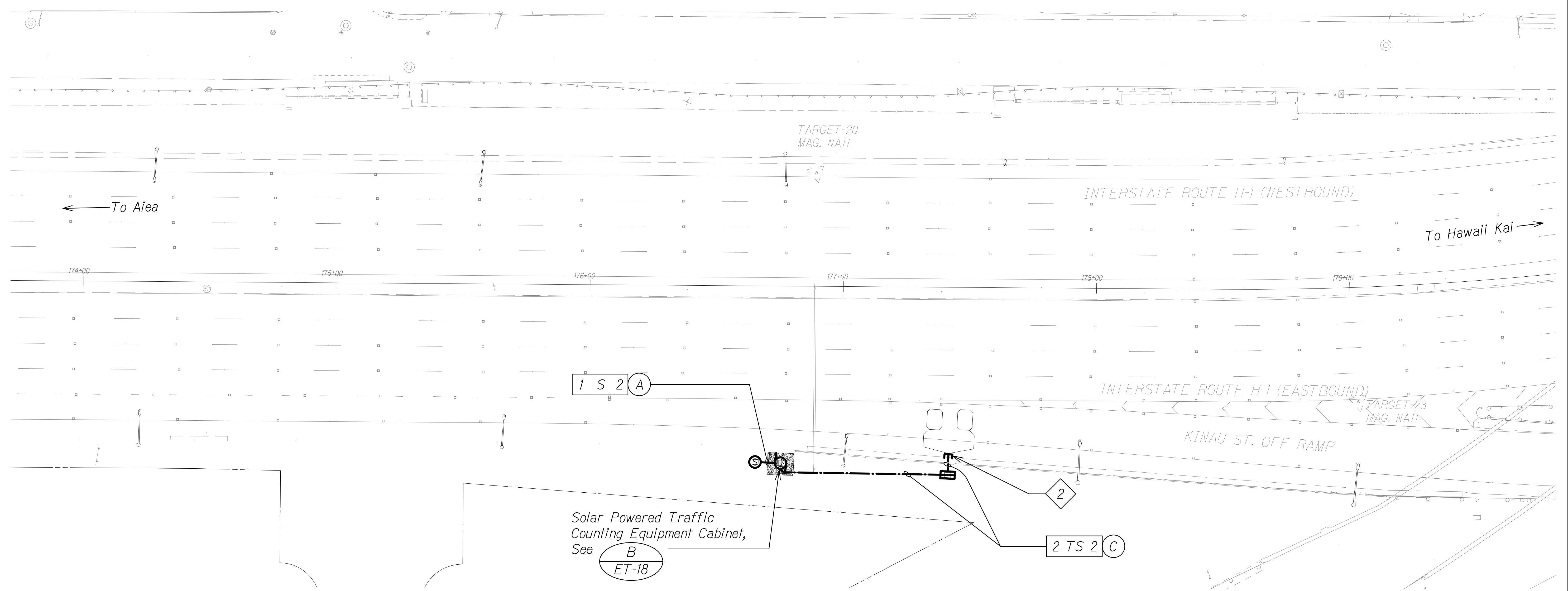
**HIGHWAY ELECTRICAL  
SYMBOLS & KEY PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-(279)-R

Scale: As Noted Date: August, 2023

SHEET No. ET-1 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	324	381



To Aiea ←

To Hawaii Kai →

TARGET-20  
MAG. NAIL

INTERSTATE ROUTE H-1 (WESTBOUND)

INTERSTATE ROUTE H-1 (EASTBOUND)

KINAU ST. OFF RAMP

TARGET-23  
MAG. NAIL

1 S 2 A

Solar Powered Traffic  
Counting Equipment Cabinet,  
See **B**  
ET-18

2 TS 2 C

2

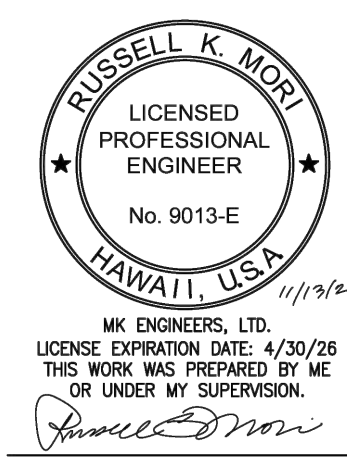
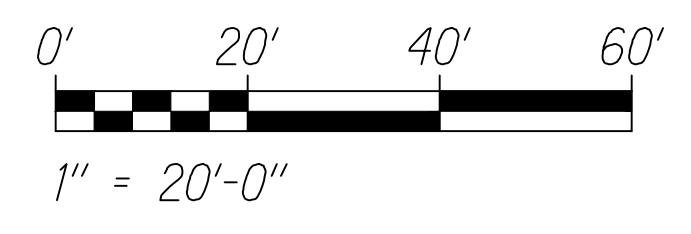
TRUE NORTH  
SCALE: 1" = 20'

### HIGHWAY ELECTRICAL PLAN - A

SCALE: 1" = 20'-0"

**NOTES:**

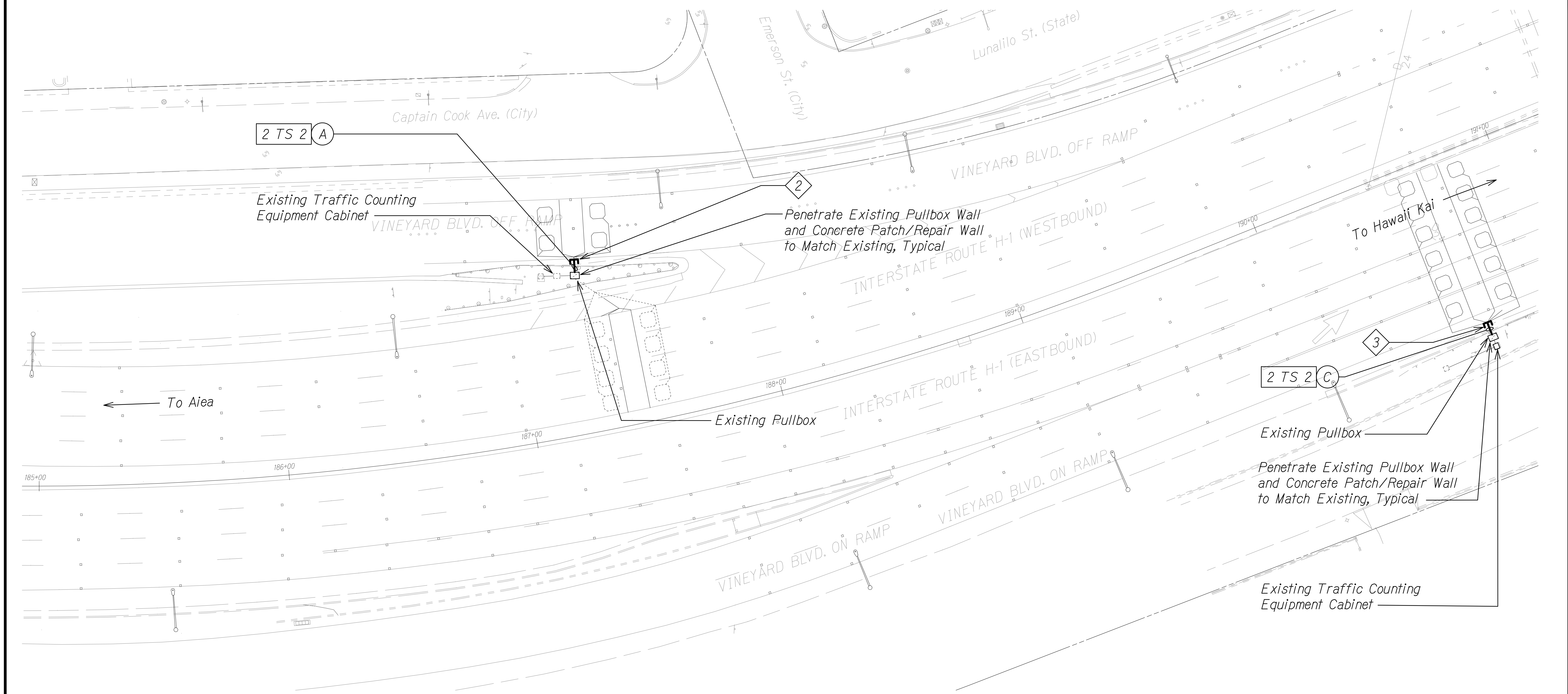
- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
- Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL  
PLAN - A**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R  
Scale: As Noted Date: August, 2023  
SHEET No. ET-2 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	325	381

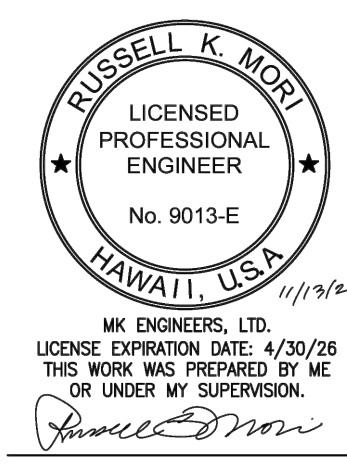
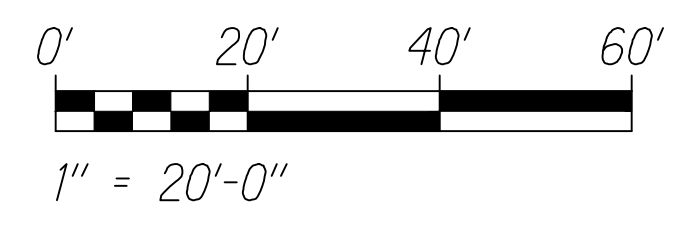
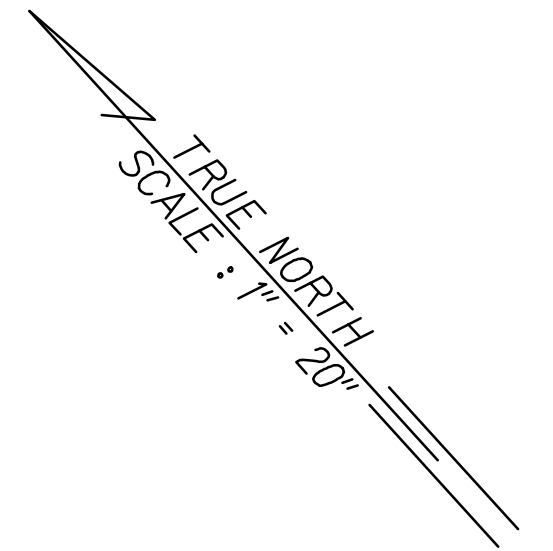


**HIGHWAY ELECTRICAL PLAN - B**

SCALE: 1" = 20'-0"

**NOTES:**

- 1. Light Lines Denote Existing Condition
- Bold Lines Denote New Work
- 2. Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HIGHWAY ELECTRICAL  
PLAN - B**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted      Date: August, 2023

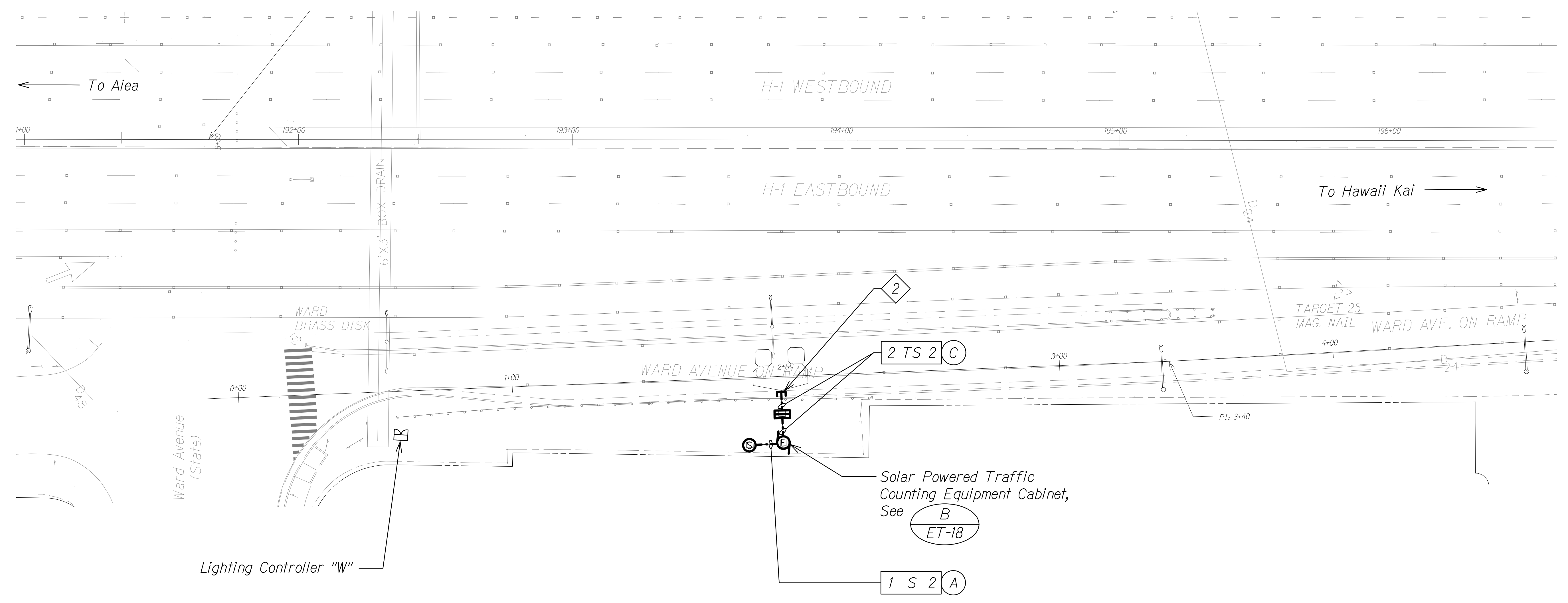
SHEET No. ET-3 OF 25 SHEETS

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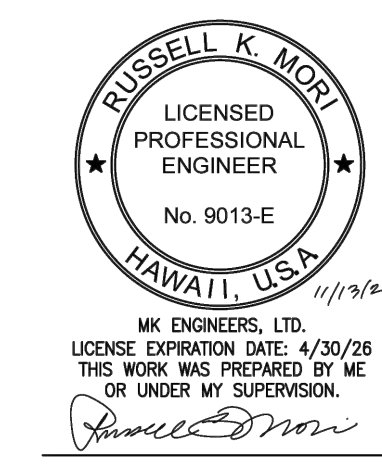
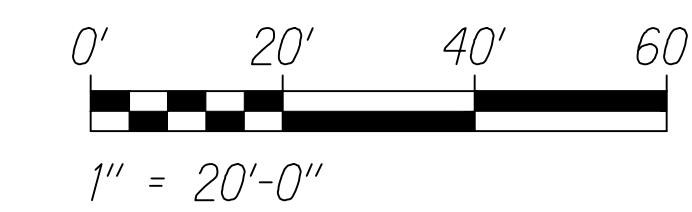
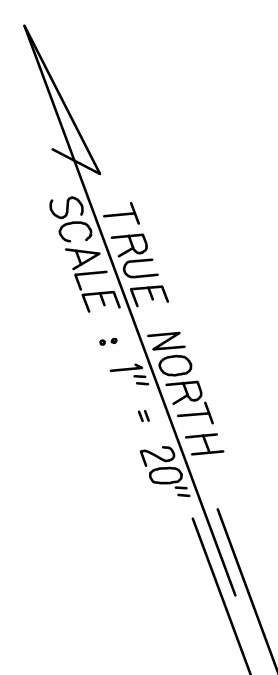
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	326	381



**HIGHWAY ELECTRICAL PLAN - C**  
 SCALE: 1" = 20'-0"

- NOTES:**
- Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
  - Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.

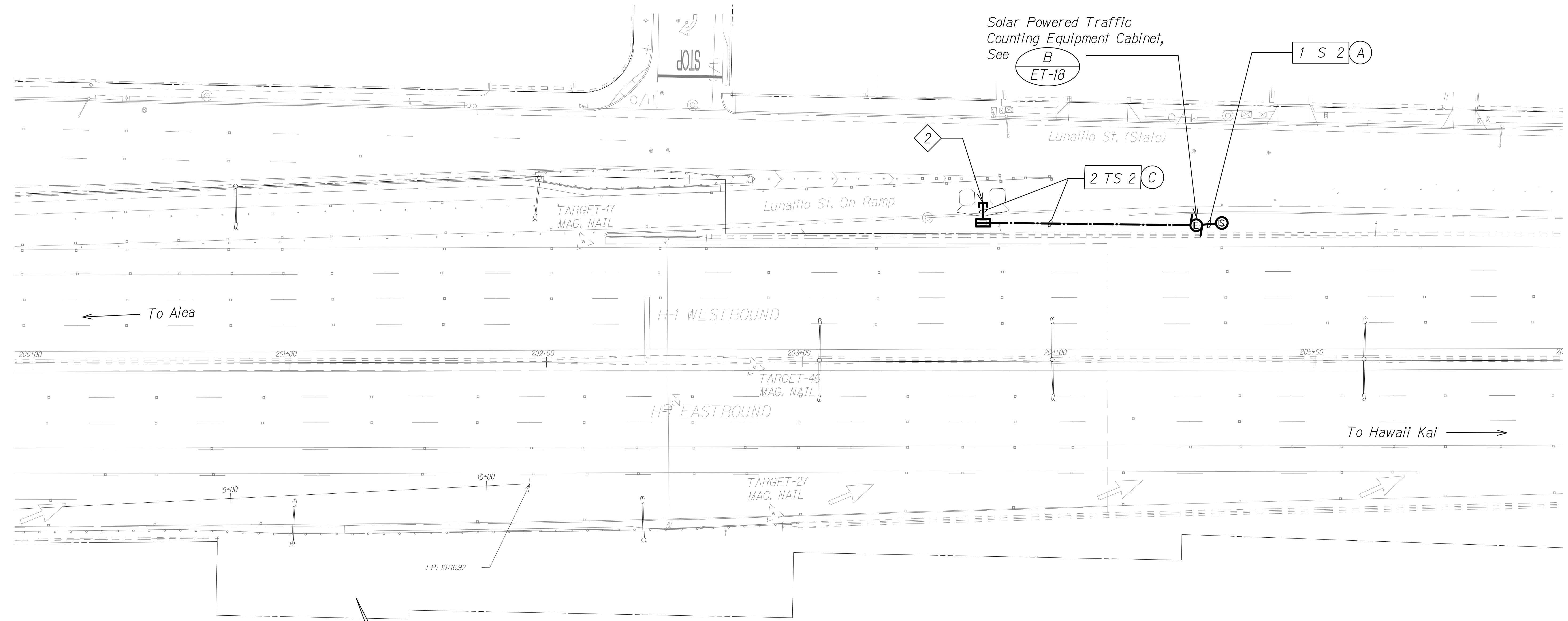


STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL PLAN - C**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. NH-HI-1(279)-R  
 Scale: As Noted Date: August, 2023  
 SHEET No. ET-4 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	327	381



← To Aiea

H-1 WESTBOUND

H-1 EASTBOUND

Lunalilo St. On Ramp

Lunalilo St. (State)

→ To Hawaii Kai

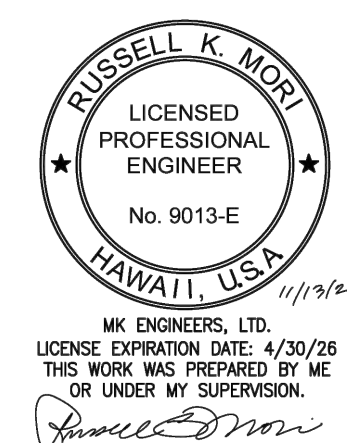
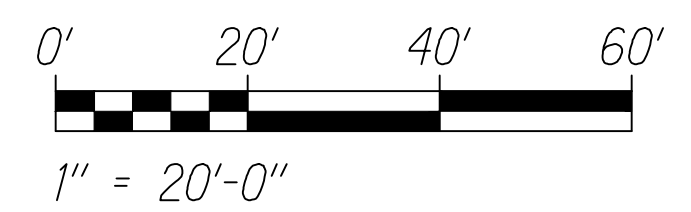
TRUE NORTH  
SCALE: 1" = 20'

### HIGHWAY ELECTRICAL PLAN - D

SCALE: 1" = 20'-0"

**NOTES:**

1. Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
2. Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## HIGHWAY ELECTRICAL PLAN - D

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted      Date: August, 2023

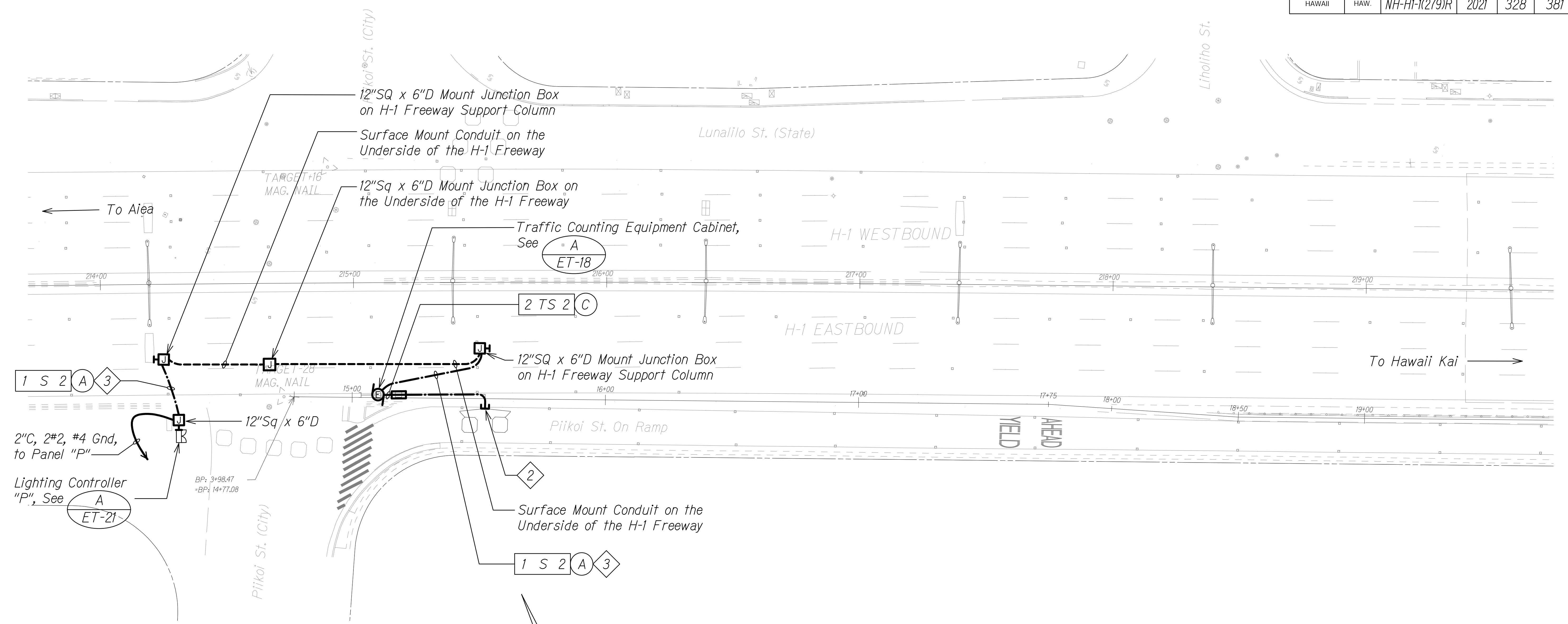
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	328	381



2" C, 2#2, #4 Gnd, to Panel "P"

Lighting Controller "P", See **A** ET-21

BP: 3+98.47  
+BP: 14+77.08

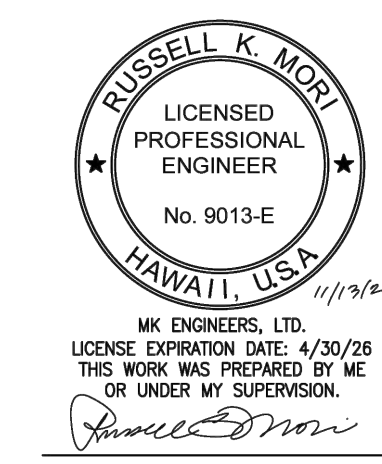
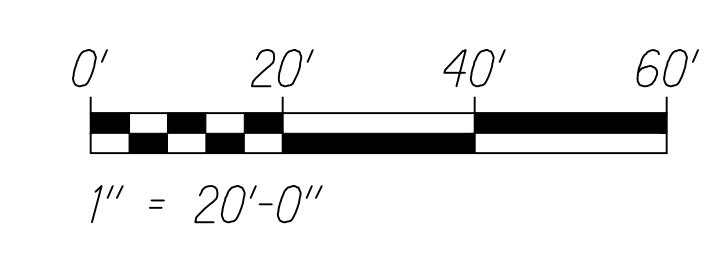
TRUE NORTH  
SCALE: 1" = 20'

### HIGHWAY ELECTRICAL PLAN - E

SCALE: 1" = 20'-0"

**NOTES:**

- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
- Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.
- See Civil Sheets for AC Pavement and Sidewalk Restoration Details.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## HIGHWAY ELECTRICAL PLAN - E

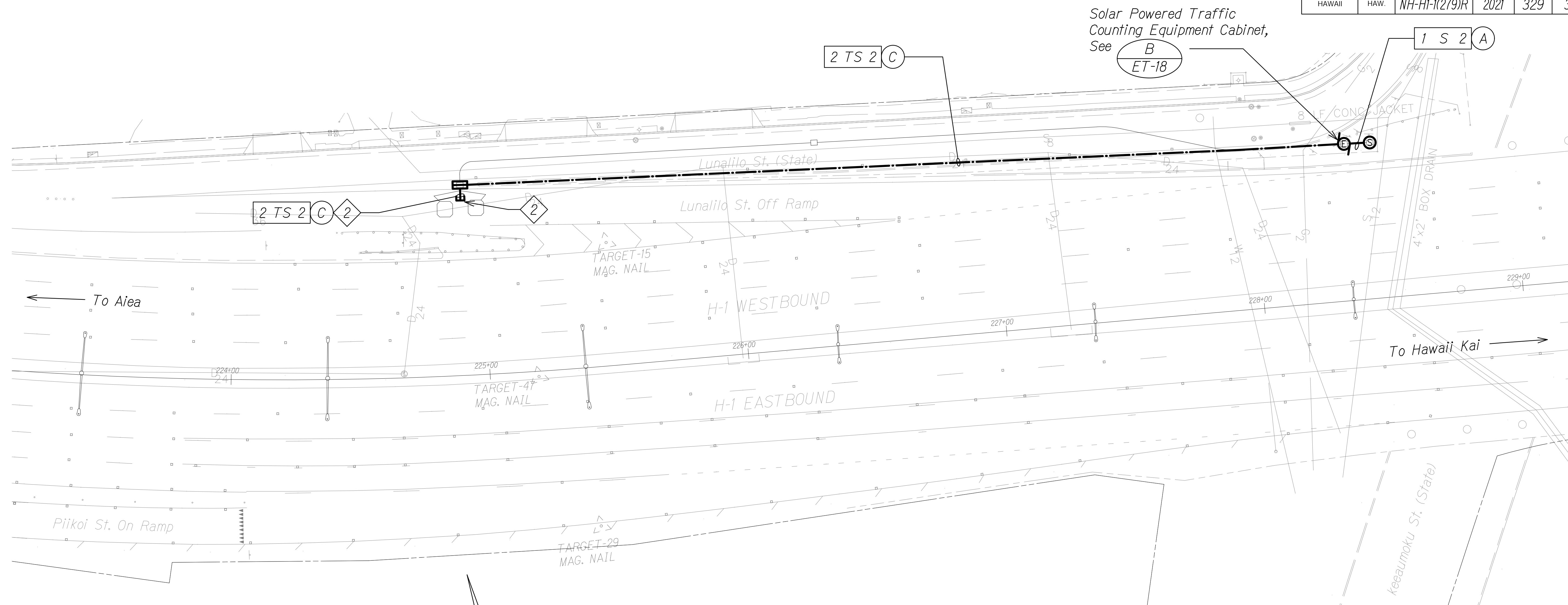
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted Date: August, 2023

SHEET No. ET-6 OF 25 SHEETS

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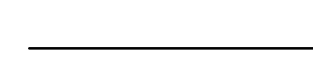


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-(279)R	2021	329	381



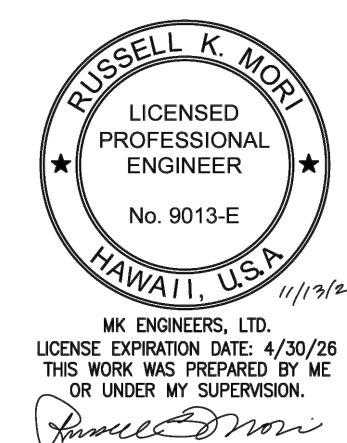
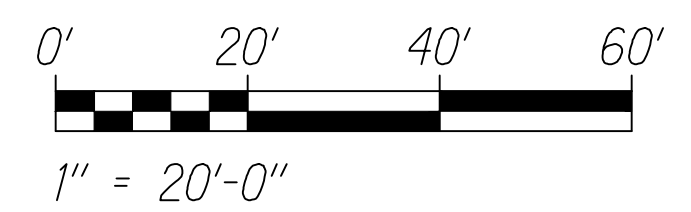
Solar Powered Traffic Counting Equipment Cabinet, See **B** ET-18

### HIGHWAY ELECTRICAL PLAN - F

SCALE: 1" = 20'-0"

- NOTES:**
-  Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
  -  Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.

TRUE NORTH  
SCALE: 1" = 20'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### HIGHWAY ELECTRICAL PLAN - F

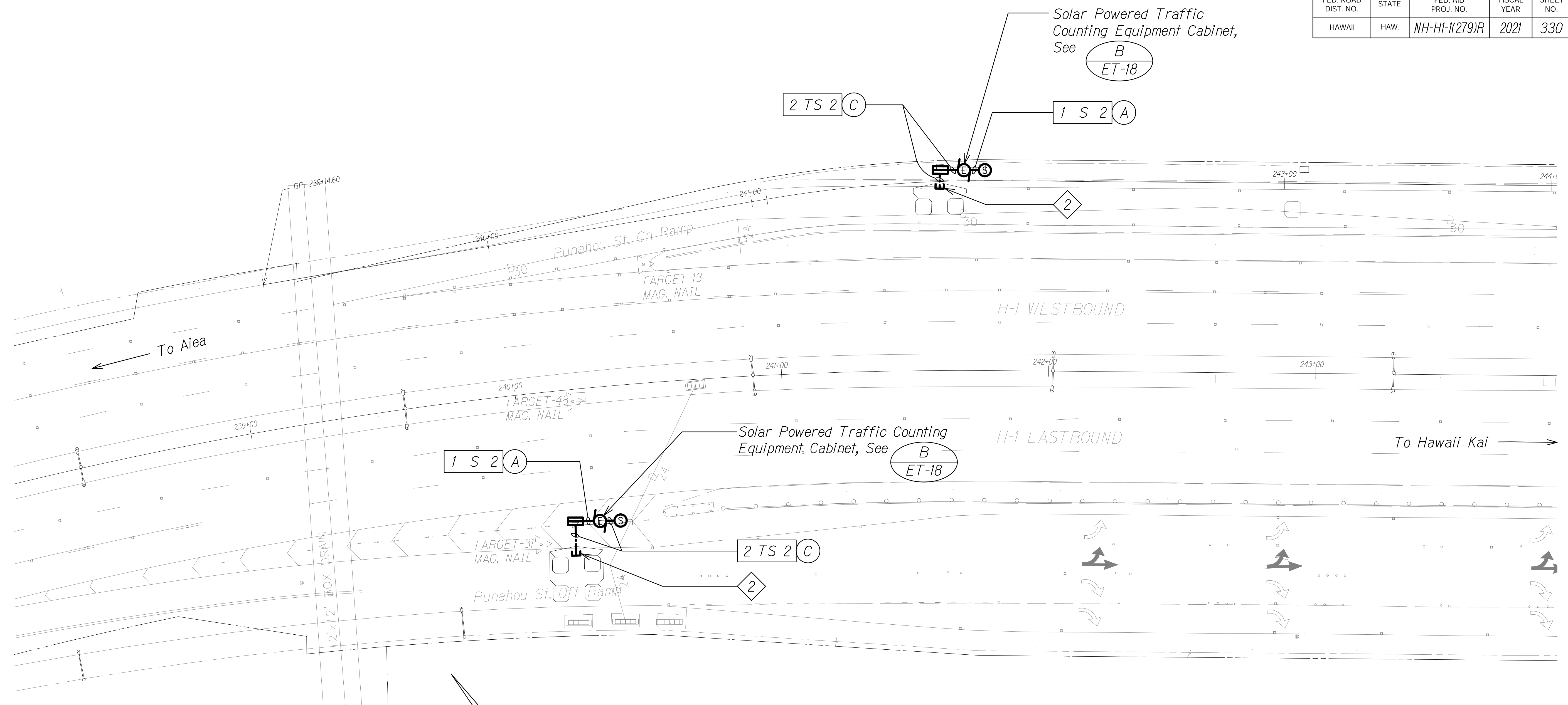
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-(279)-R

Scale: As Noted      Date: August, 2023

SHEET No. ET-7 OF 25 SHEETS

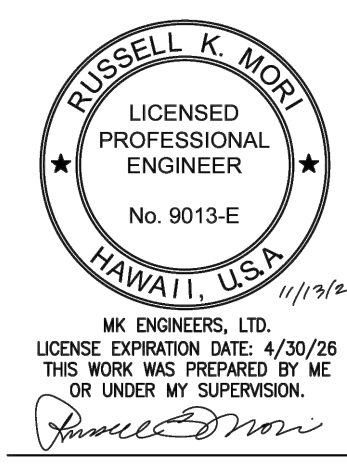
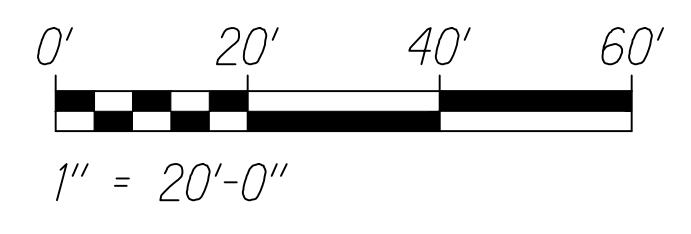
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	330	381



**HIGHWAY ELECTRICAL PLAN - G**  
 SCALE: 1" = 20'-0"

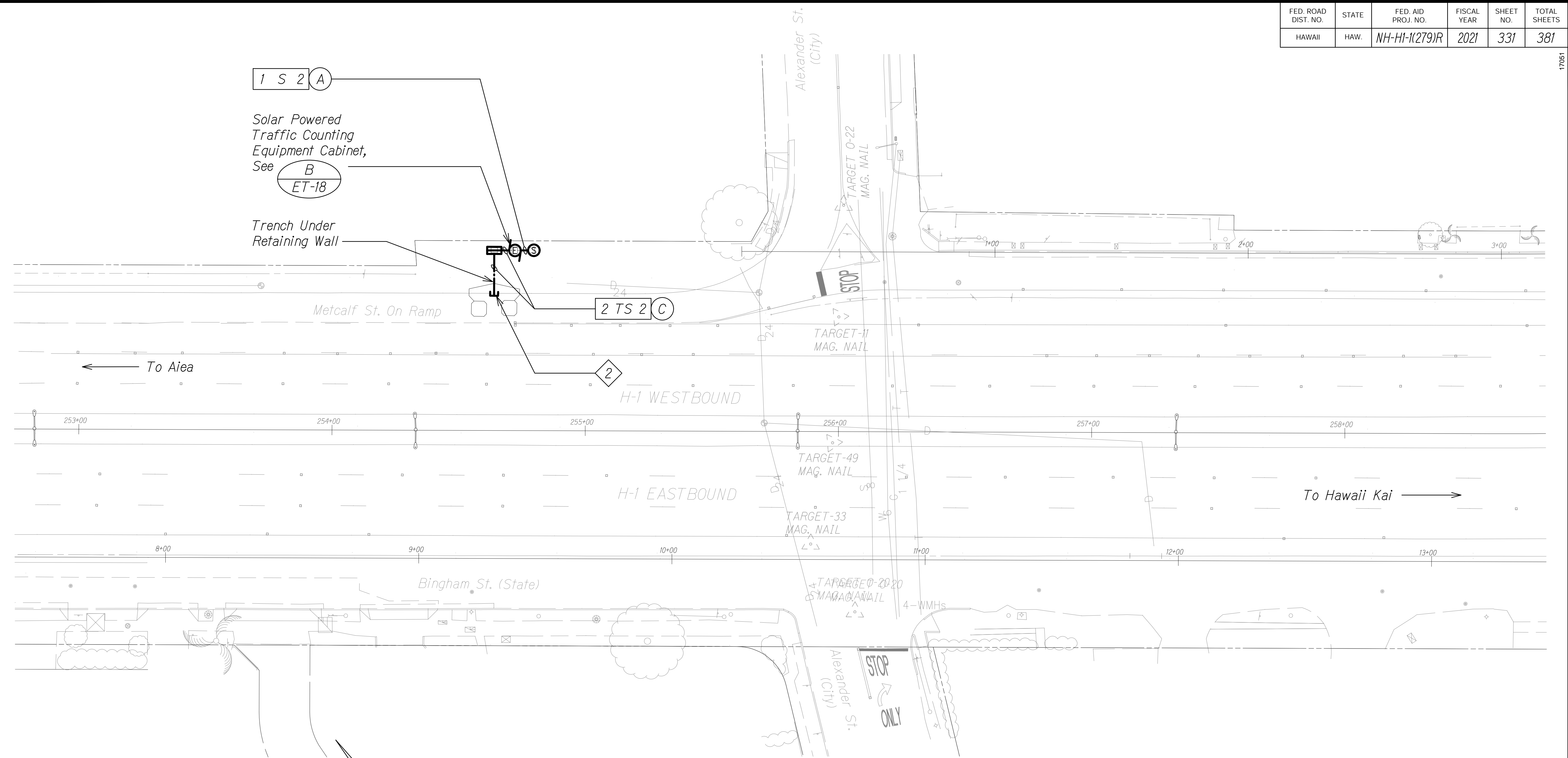
- NOTES:**
- Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
  - Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL PLAN - G**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. NH-HI-1(279)-R  
 Scale: As Noted Date: August, 2023  
 SHEET No. ET-8 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(279)R	2021	331	381



### HIGHWAY ELECTRICAL PLAN - H

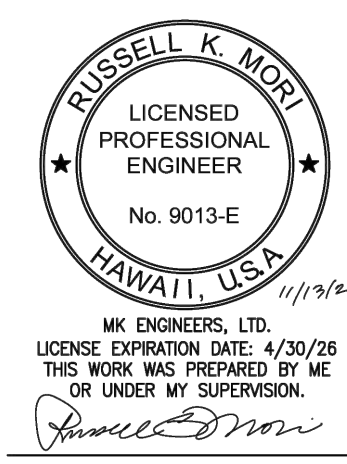
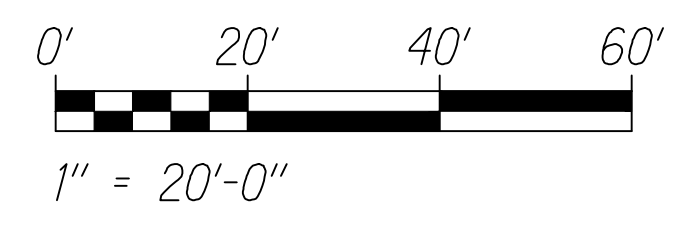
SCALE: 1" = 20'-0"

**NOTES:**

- 1.  Light Lines Denote Existing Condition
- Bold Lines Denote New Work

- 2.  Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.

TRUE NORTH  
SCALE: 1" = 20'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## HIGHWAY ELECTRICAL PLAN - H

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-K(279)-R

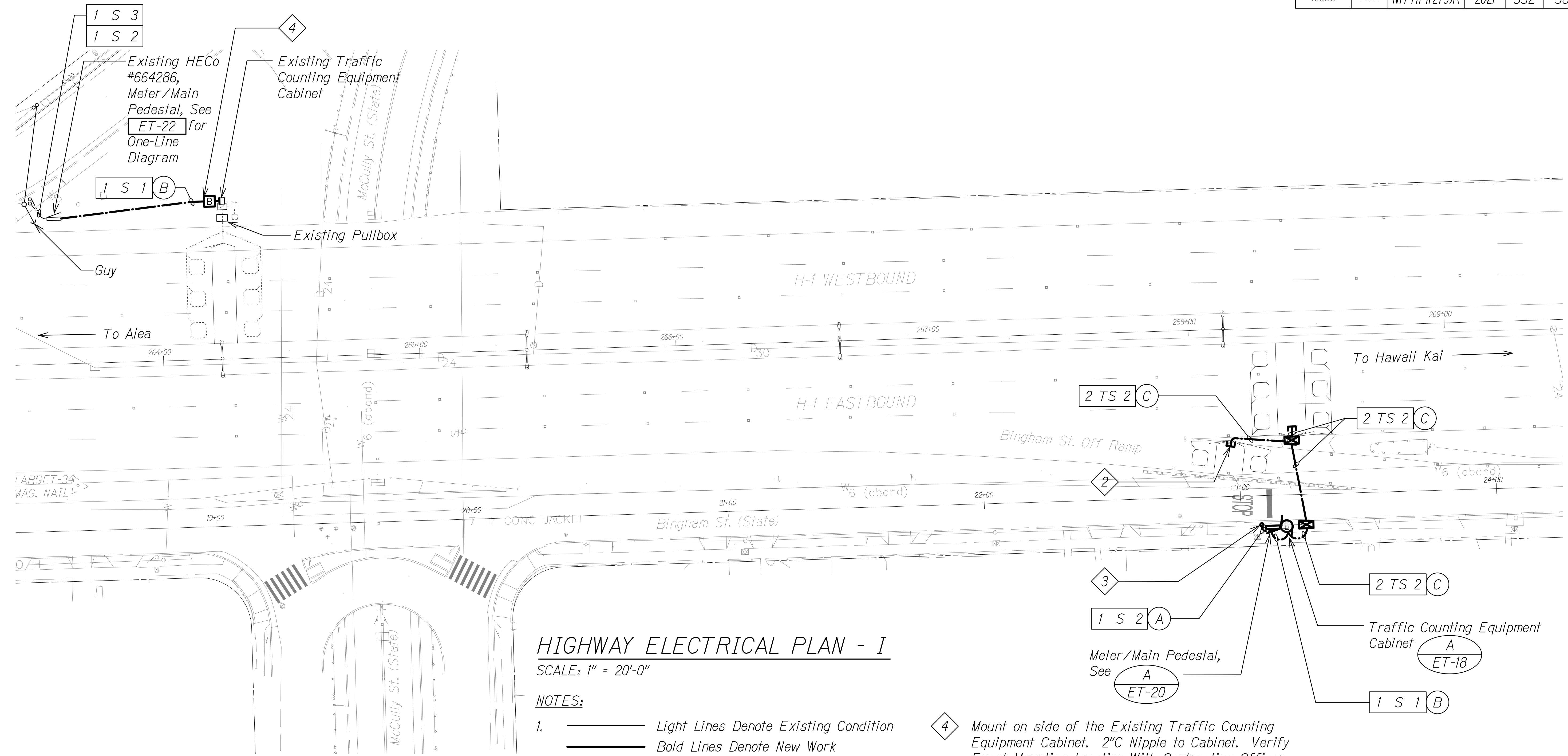
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SHEET No. ET-9 OF 25 SHEETS

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17051

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(279)R	2021	332	381

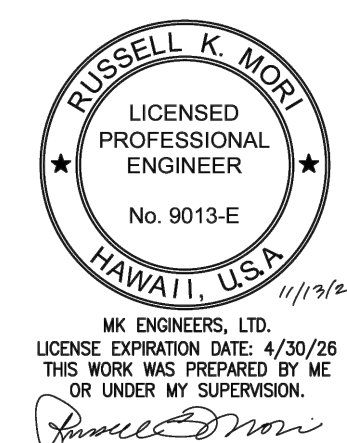
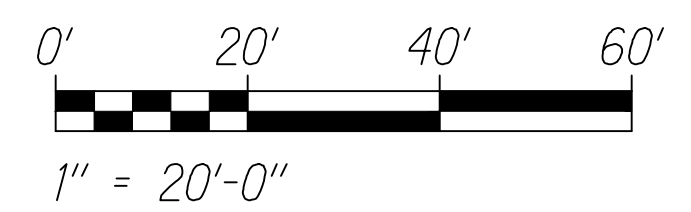
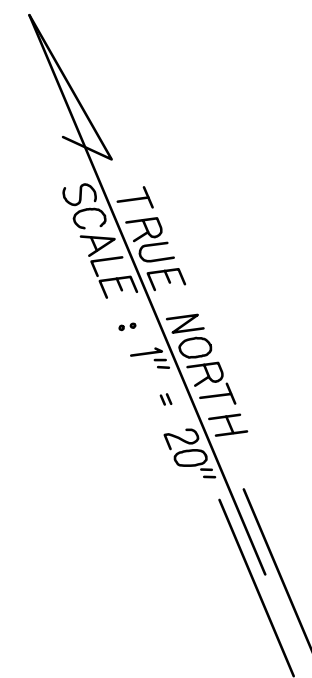


### HIGHWAY ELECTRICAL PLAN - I

SCALE: 1" = 20'-0"

**NOTES:**

- 1.  Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
- 2. 2 Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.
- 3. 3 Existing Utility Pole. Install New 2" Secondary Riser up to Point Approximately 12" Below Secondary Level and Terminate in Weatherhead. Provide Service Conductors With 42" Slack for Connection by HECo.
- 4. 4 Mount on side of the Existing Traffic Counting Equipment Cabinet. 2"C Nipple to Cabinet. Verify Exact Mounting Location With Contracting Officer. See C for Conduit Transition. Provide E-17 for Each Conduit.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### HIGHWAY ELECTRICAL PLAN - I

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-K(279)-R

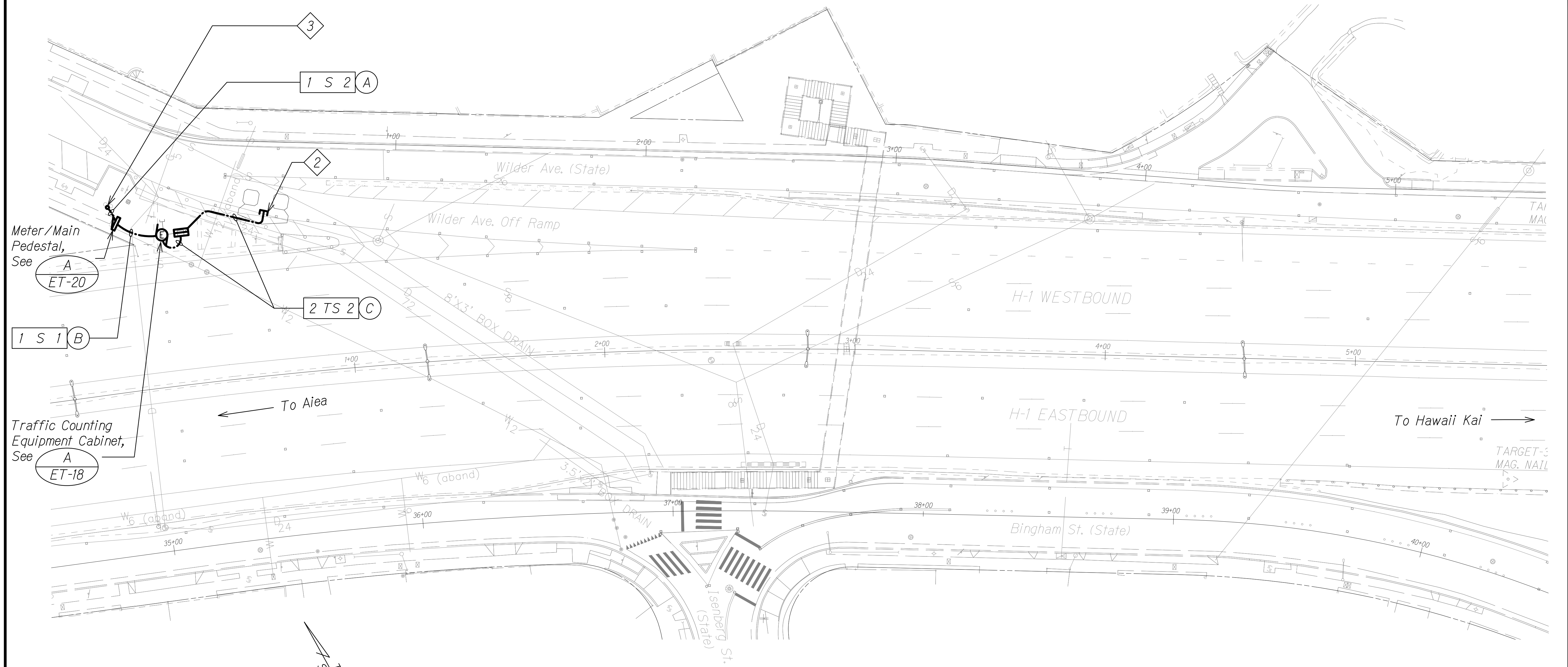
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SHEET No. ET-10 OF 25 SHEETS

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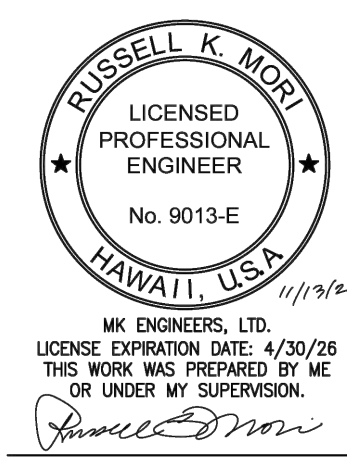
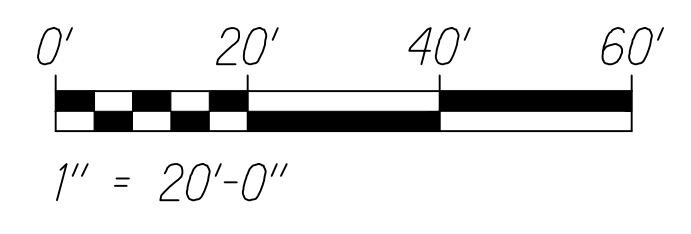
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HAWAII	HAW.	NH-HI-1(279)R	2021	333	381



**HIGHWAY ELECTRICAL PLAN - J**  
 SCALE: 1" = 20'-0"

**NOTES:**

- Light Lines Denote Existing Condition  
 Bold Lines Denote New Work
- Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.
- Existing Utility Pole. Install New 2" Secondary Riser up to Point Approximately 12" Below Secondary Level and Terminate in Weatherhead. Provide Service Conductors With 42" Slack for Connection by HECO.

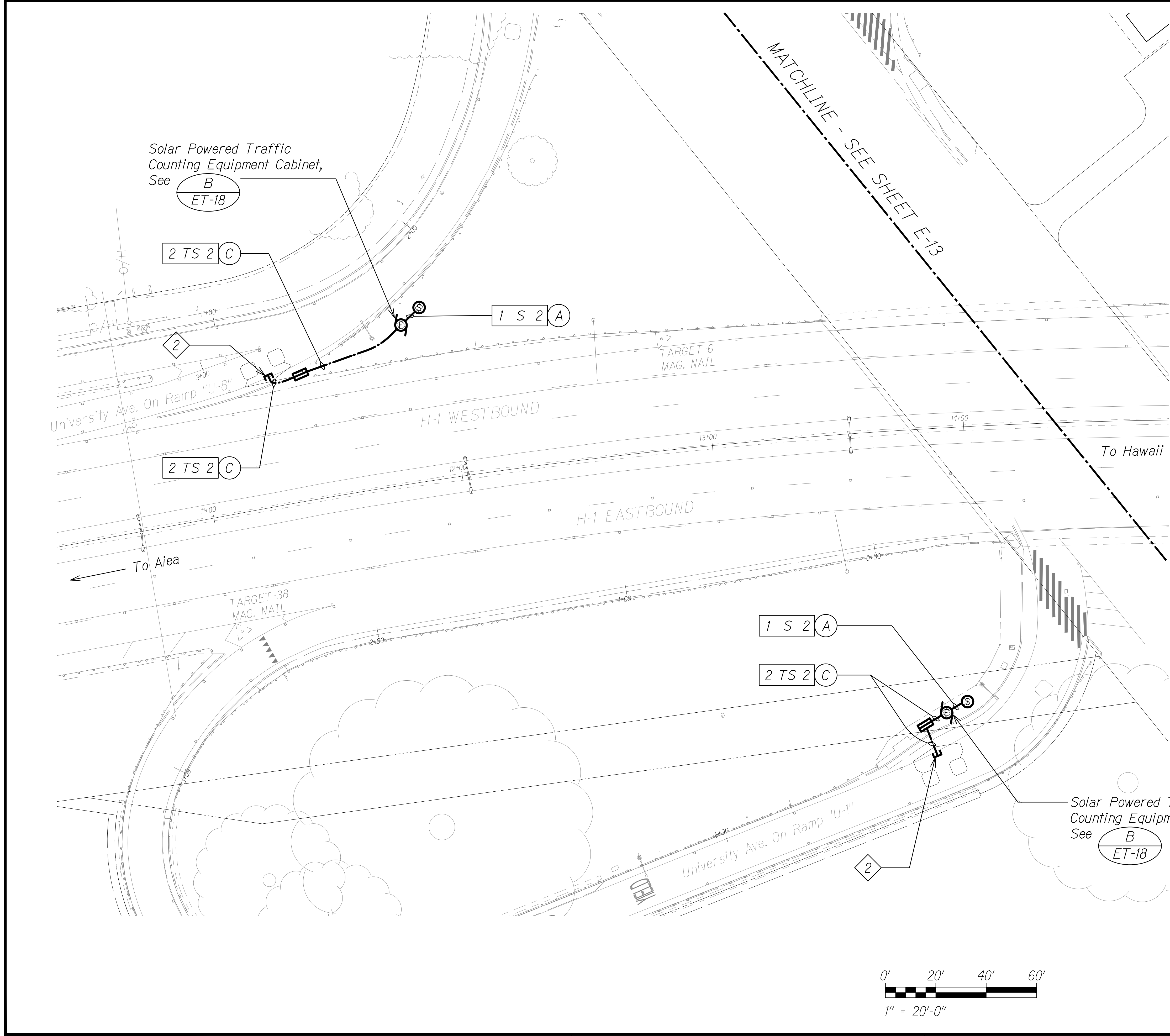


STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL**  
**PLAN - J**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. NH-HI-1(279)-R  
 Scale: As Noted Date: August, 2023  
 SHEET No. ET-11 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	334	381

17051

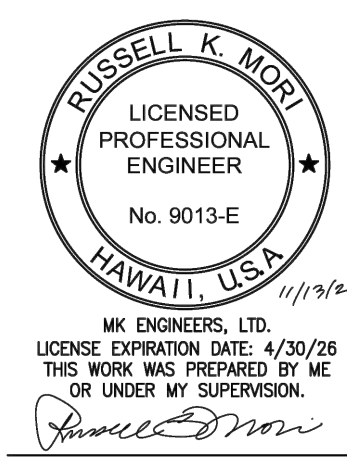
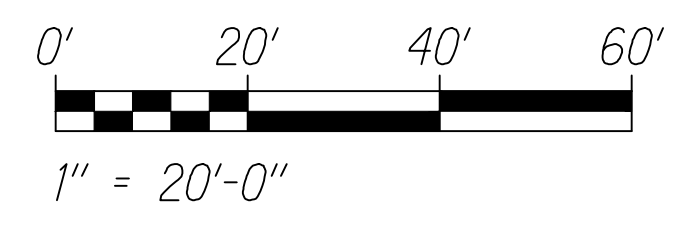


**HIGHWAY ELECTRICAL PLAN - K**

SCALE: 1" = 20'-0"

**NOTES:**

- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
- Stubout 6" Within Edge of Pavement. See TC Sheets Standard Plan for Stubout Details and Location.



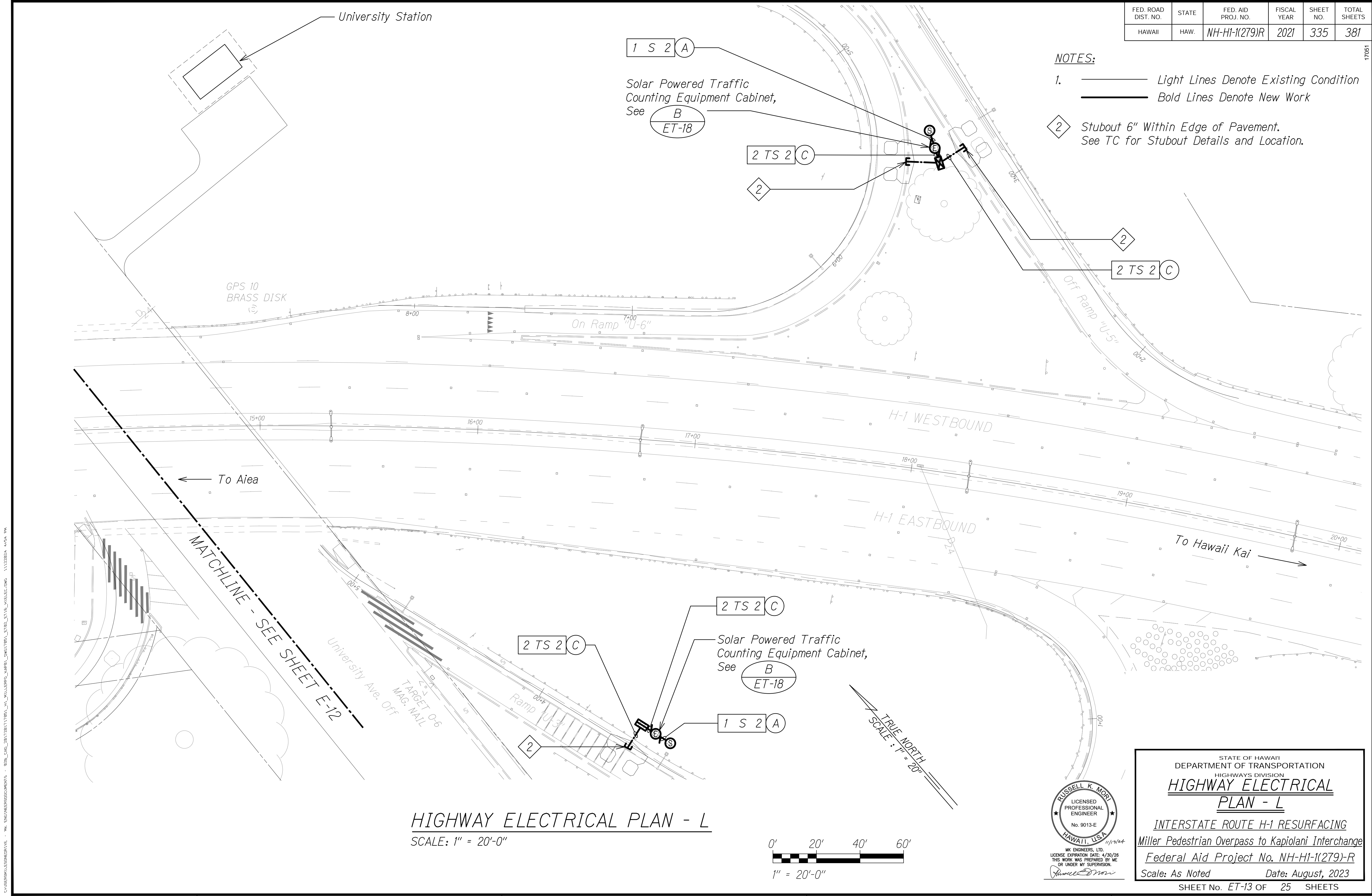
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL PLAN - K**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R  
Scale: As Noted Date: August, 2023  
SHEET No. ET-12 OF 25 SHEETS

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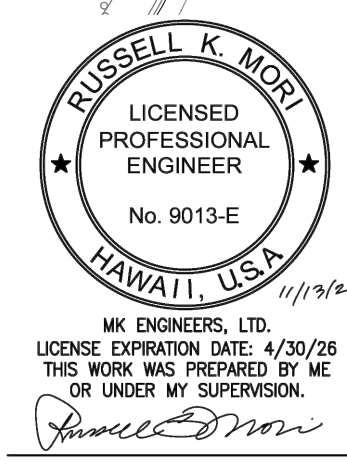
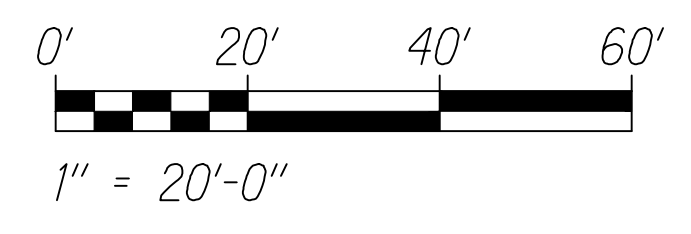


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K(279)R	2021	335	381

- NOTES:**
- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
  - Stubout 6" Within Edge of Pavement.  
See TC for Stubout Details and Location.



**HIGHWAY ELECTRICAL PLAN - L**  
SCALE: 1" = 20'-0"

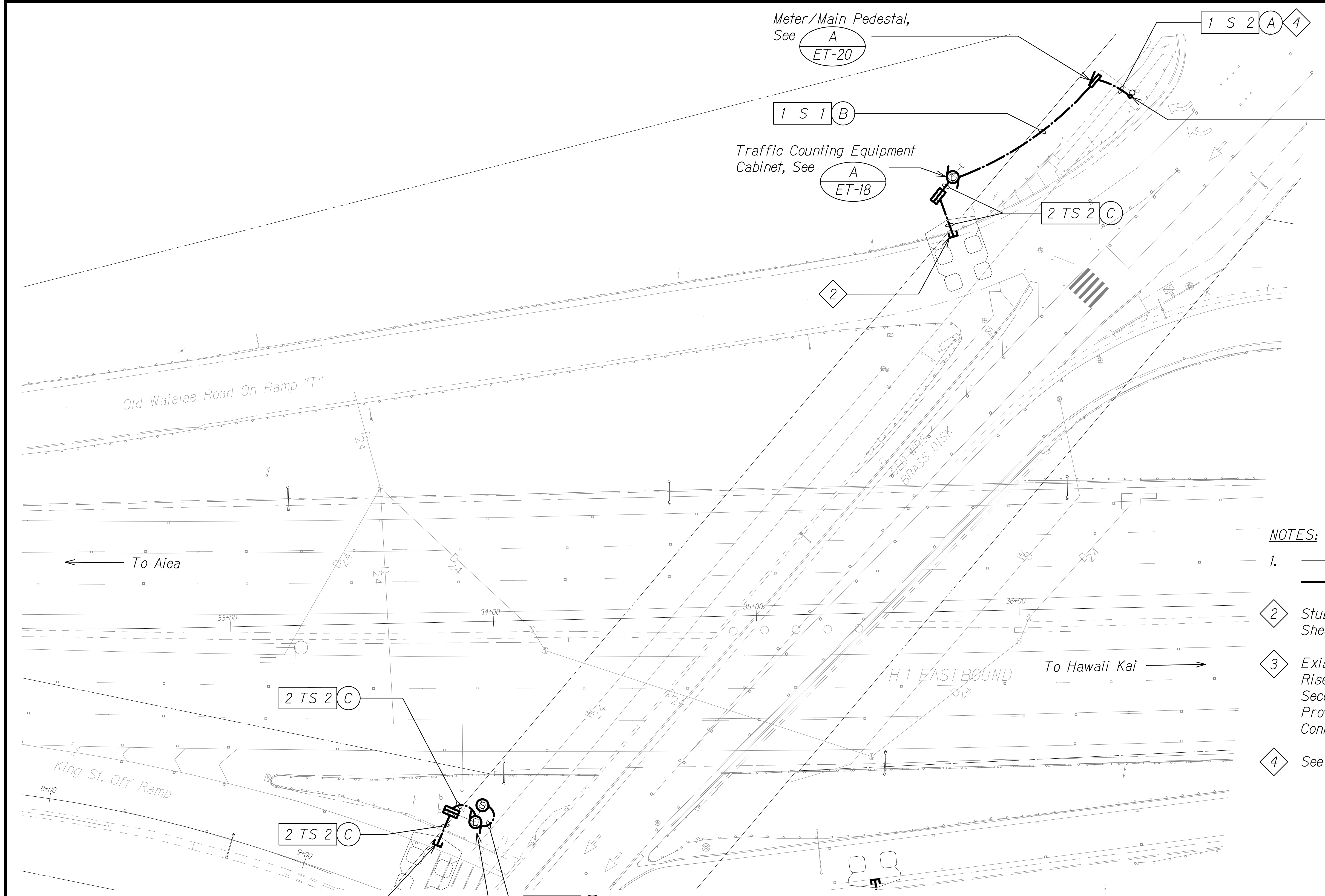


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL**  
**PLAN - L**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-K(279)-R  
Scale: As Noted Date: August, 2023  
SHEET No. ET-13 OF 25 SHEETS

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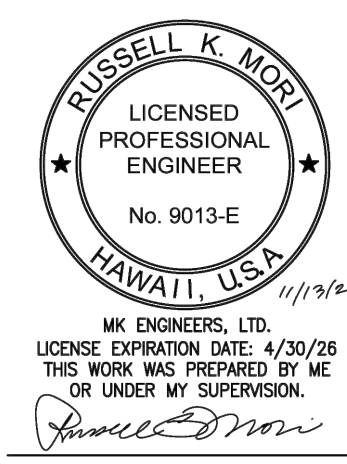
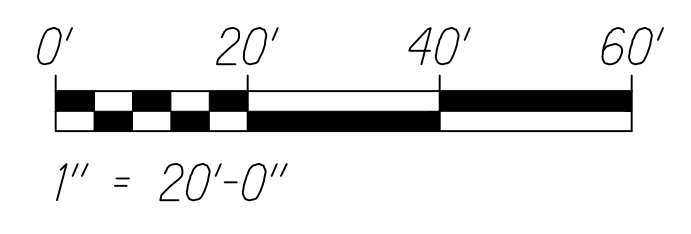
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	336	381



TRUE NORTH  
SCALE: 1" = 20'

- NOTES:**
- 1.  Light Lines Denote Existing Condition
  - Bold Lines Denote New Work
  - 2. 2 Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.
  - 3. 3 Existing Utility Pole. Install New 2" Secondary Riser up to Point Approximately 12" Below Secondary Level and Terminate in Weatherhead. Provide Service Conductors With 42" Slack for Connection by HECO.
  - 4. 4 See Civil Sheets for Sidewalk Restoration Details.

**HIGHWAY ELECTRICAL PLAN - M**  
SCALE: 1" = 20'-0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HIGHWAY ELECTRICAL  
PLAN - M**

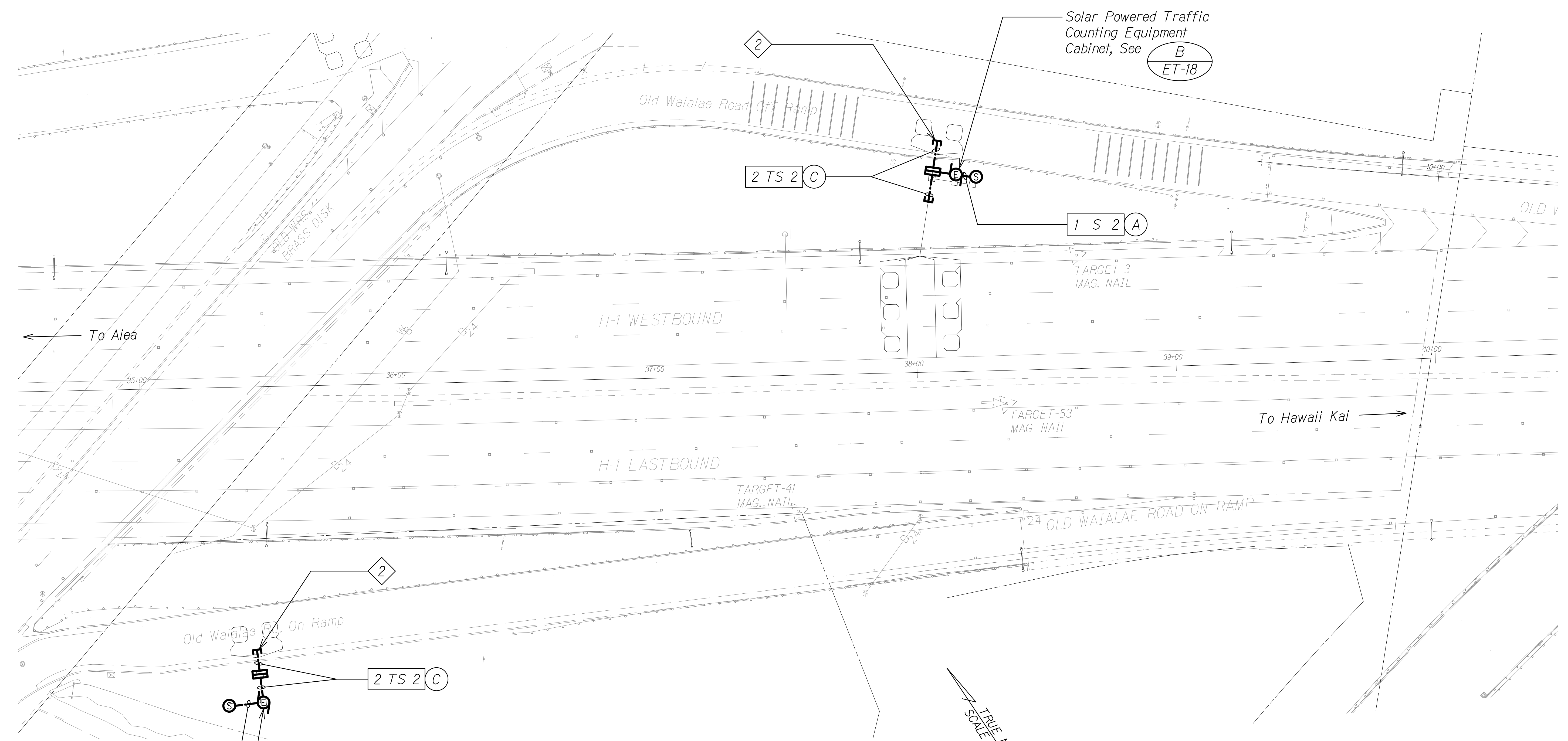
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted      Date: August, 2023

SHEET No. ET-14 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	337	381

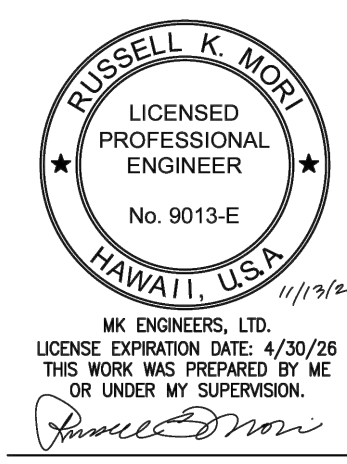
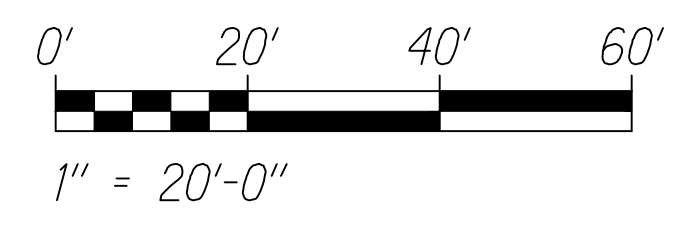


**HIGHWAY ELECTRICAL PLAN - N**  
SCALE: 1" = 20'-0"

**NOTES:**

- Light Lines Denote Existing Condition  
Bold Lines Denote New Work
- Stubout 6" Within Edge of Pavement. See TC Sheets for Stubout Details and Location.

1 S 2 A  
Solar Powered Traffic Counting Equipment Cabinet, See B ET-18

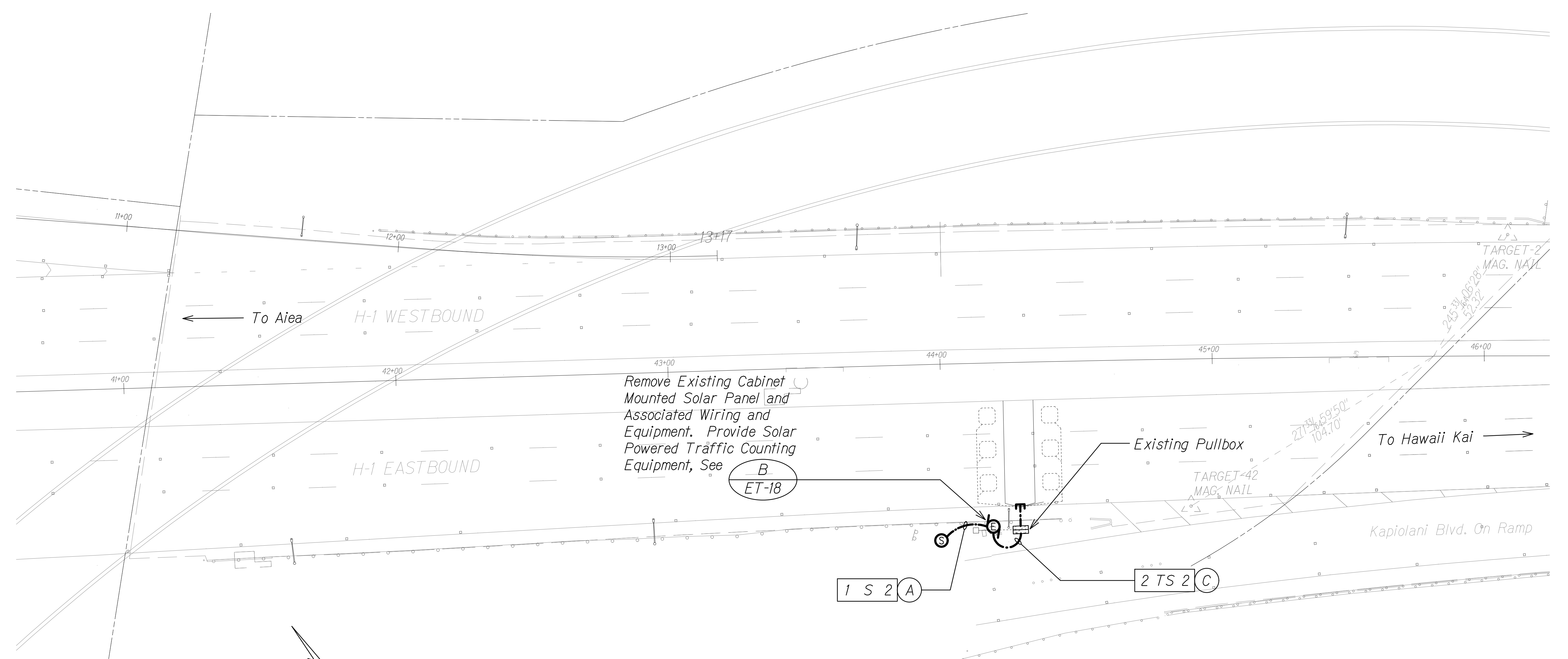


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**HIGHWAY ELECTRICAL PLAN - N**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R  
Scale: As Noted Date: August, 2023  
SHEET No. ET-15 OF 25 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	338	381



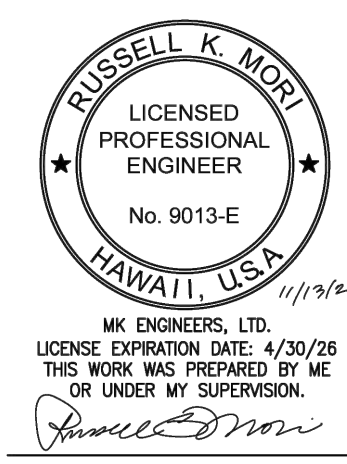
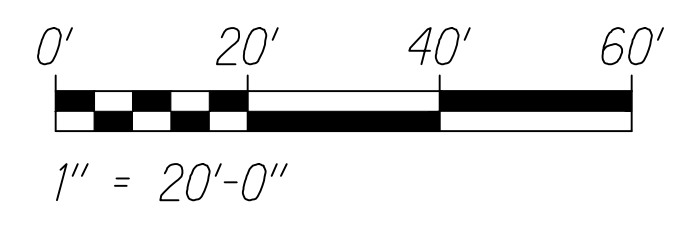
TRUE NORTH  
SCALE: 1" = 20'

### HIGHWAY ELECTRICAL PLAN - 0

SCALE: 1" = 20'-0"

**NOTES:**

- Light Lines Denote Existing Condition  
 Bold Lines Denote New Work



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

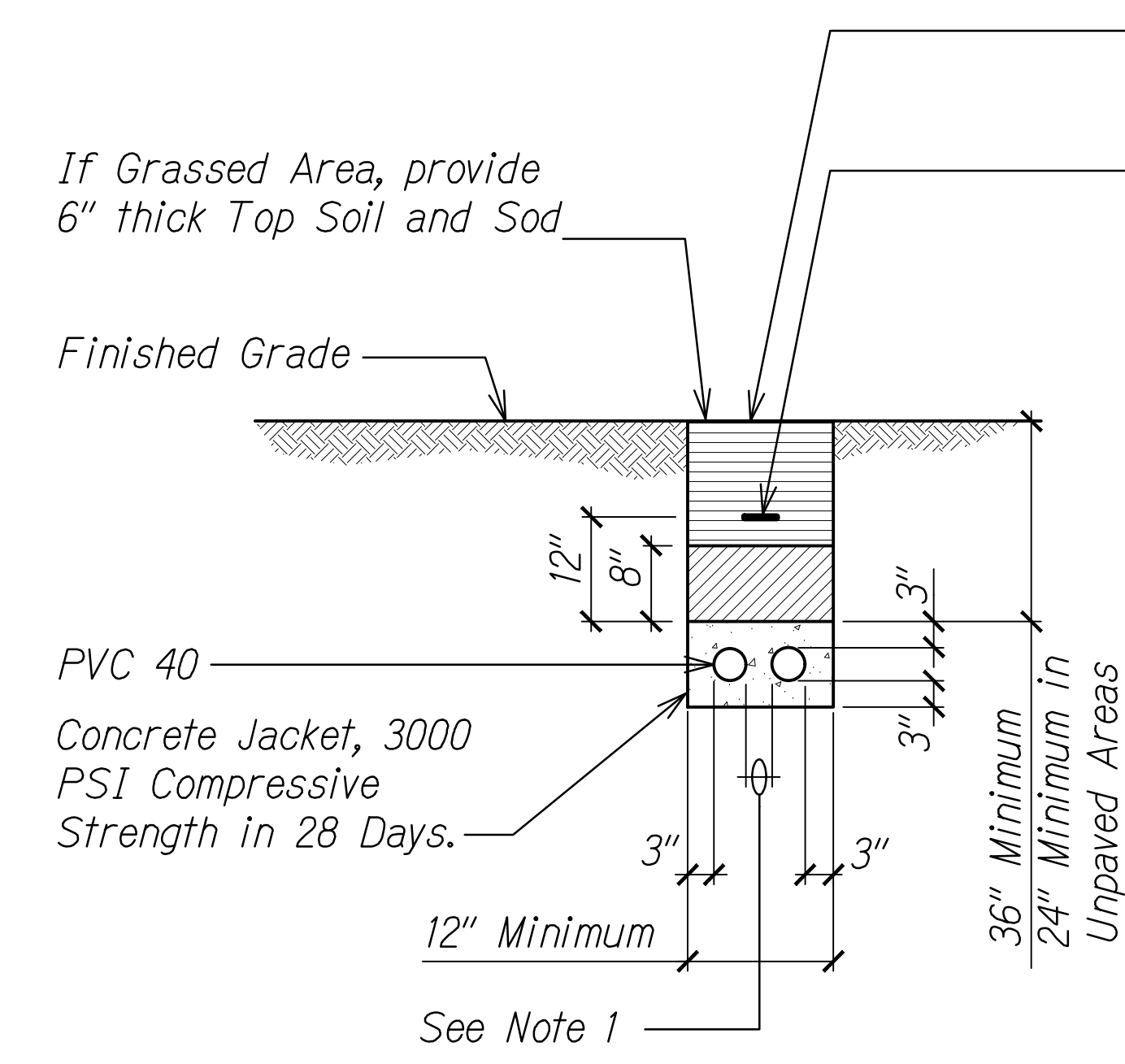
## HIGHWAY ELECTRICAL PLAN - 0

**INTERSTATE ROUTE H-1 RESURFACING**  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted      Date: August, 2023

SHEET No. ET-16 OF 25 SHEETS

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If Paved Area, construct Pavement or Sidewalk equal to or better than existing.

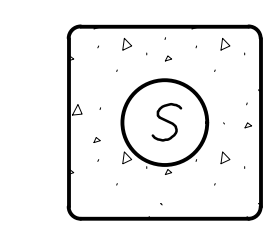
Traceable Warning Tape With "Caution-Electric/Communications Cable Below" Imprinted on Tape. Warning Tape Shall Be Placed Over Entire Length of Ductline

**BACKFILL:**

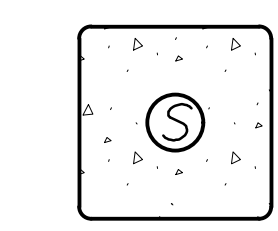
TYPE "A": Non-Contaminated Native Soil Material Which Does Not Contain More Than 50% Gravel, and Also, Does Not Contain Hard Lumps of Earth 3 Inches in Greatest Dimension, Rocks Larger Than 3 Inches in Largest Dimension, Highly Plastic Clay, Poorly-Graded Sand and Gravel (Classified as SP and GP Using the United Soil Classification System), Organics, Debris, or Other Unsuitable or Deleterious Materials.

TYPE "B": Select Granular Material Passing a One (1) Inch Sieve Such as Three-Quarter (3/4) Inch Aggregate Base Course Gravel, S4C or Material That is Free of Organics, Debris or Highly-Plastic Clay and Meets the Following Gradation:

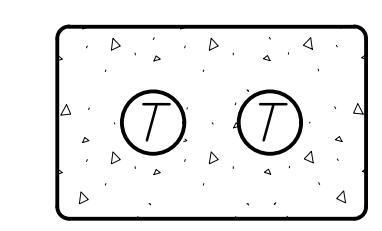
SIEVE SIZE	PERCENT PASSING BY WEIGHT
1"	100
3/4"	90 - 100
No. 4	35 - 100
No. 40	10 - 30
No. 200	3 - 15



DUCT SECTION (A)



DUCT SECTION (B)



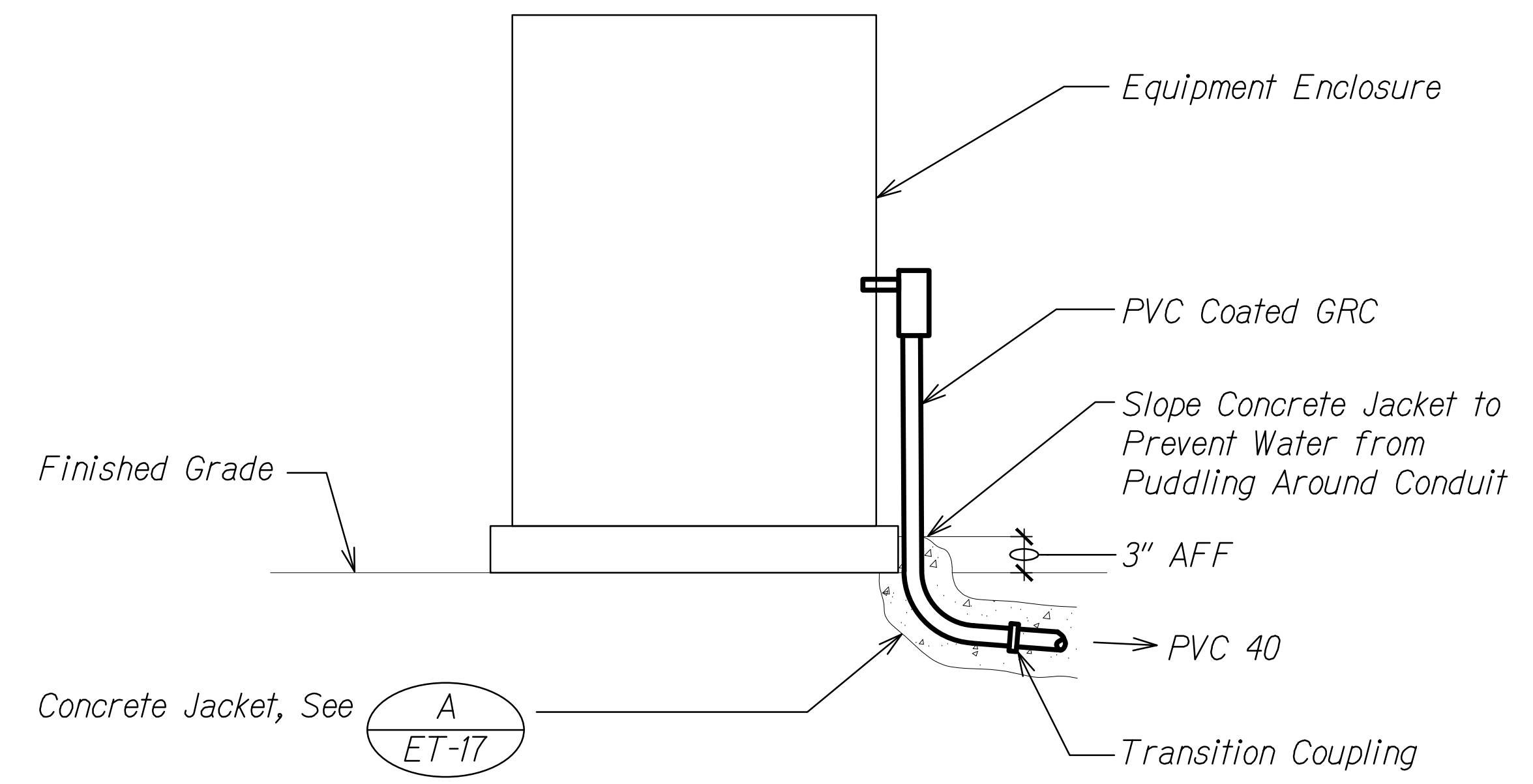
DUCT SECTION (C)

(A) TYPICAL DUCT SECTION  
ET-17 NTS

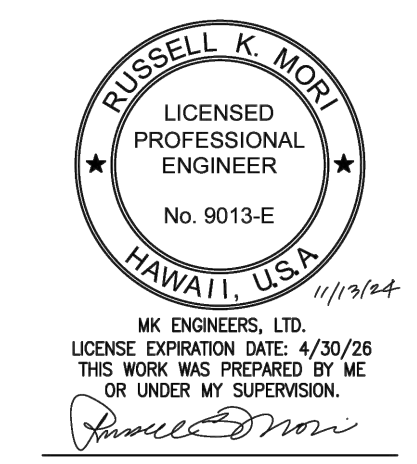
NOTES:  
1. Provide 3" Separation Between Ducts of Same System and 12" Separation Between Electrical Ducts and Ducts of Different Systems.

(B) DUCT SECTION DETAIL  
ET-17 NTS

NOTES:  
1. For Dimensions, See (A) ET-17.



(C) CONDUIT TRANSITION DETAIL  
ET-17 NTS



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

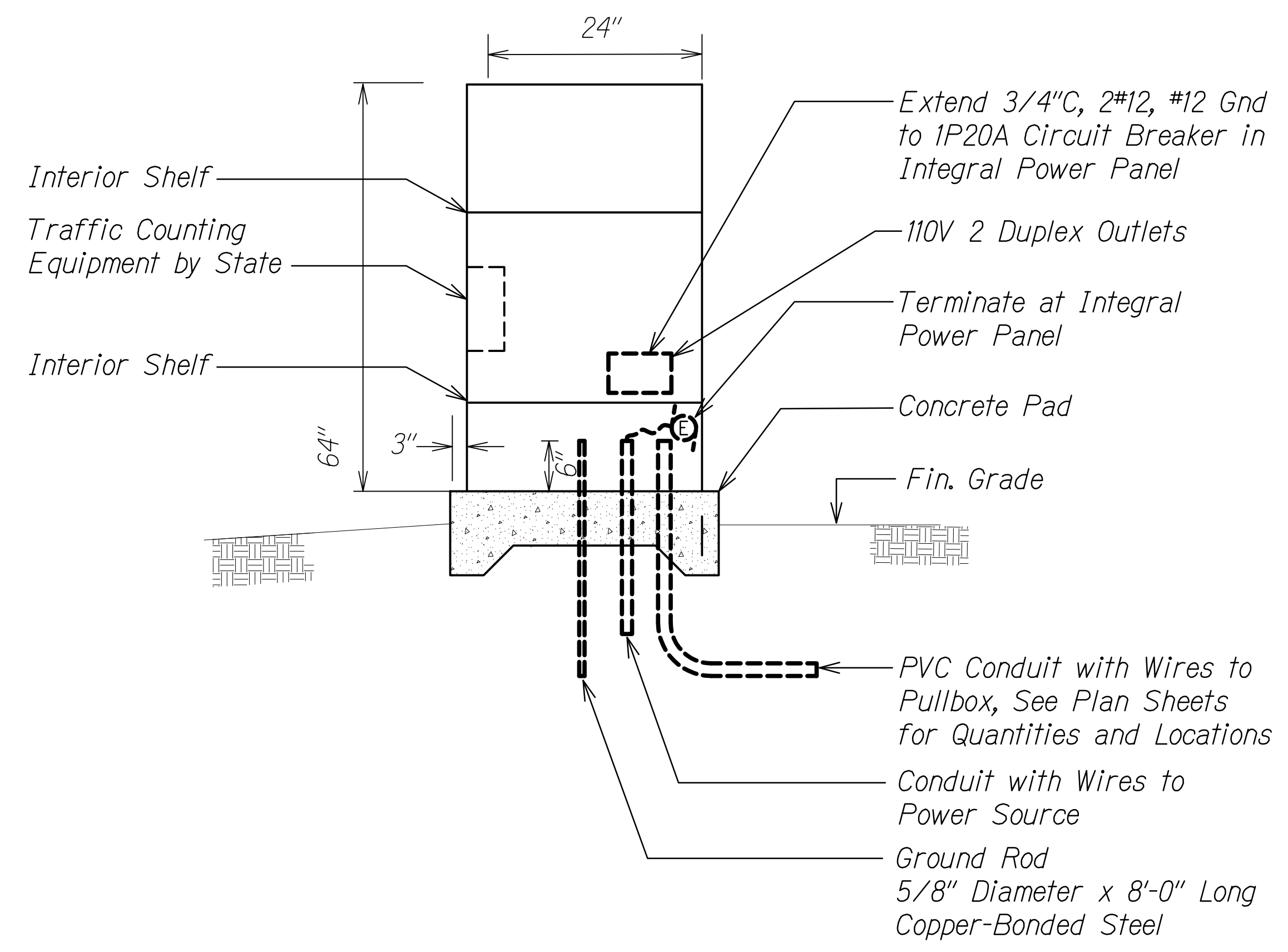
**DUCT SECTION DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted Date: August, 2023

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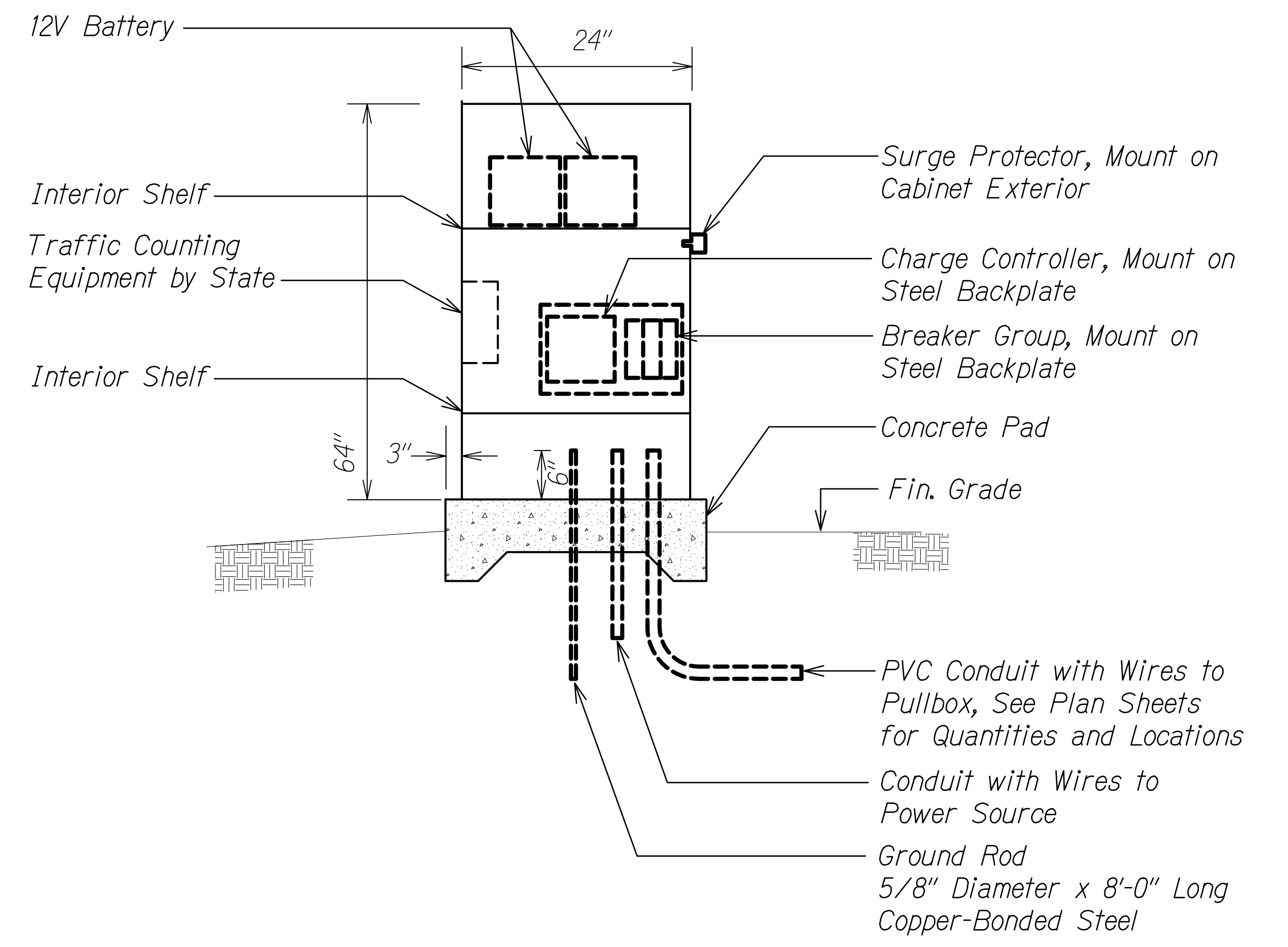
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	340	381



**A** AC POWER CABINET SECTION DETAIL  
ET-18 NTS

**NOTES:**

1. Dashed Lines Indicate New Electrical Equipment to be Provided Within the Signal Cabinet.
2. Some Conduits are Not Shown for Clarity. See Plan Sheets for Additional Conduits.
3. See TC Sheets for Cabinet and Concrete Pad Details. Coordinate All Work and Verify Dimensions with Cabinet Selection.

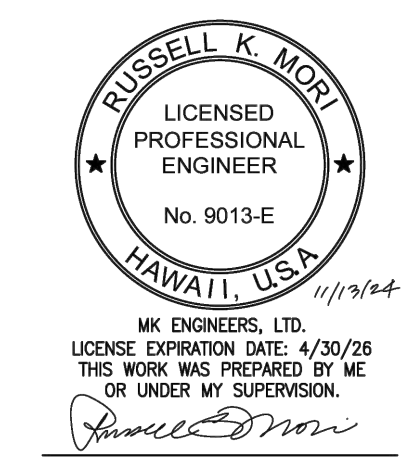


**B** SOLAR POWER CABINET SECTION DETAIL  
ET-18 NTS

**NOTES:**

1. Dashed Lines Indicate New Electrical Equipment to be Provided Within the Signal Cabinet.
2. Some Conduits are Not Shown for Clarity. See Plan Sheets for Additional Conduits.
3. See TC Sheets for Cabinet and Concrete Pad Details. Coordinate All Work and Verify Dimensions with Cabinet Selection.

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CABINET POWER DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted Date: August, 2023

SHEET No. ET-18 OF 25 SHEETS

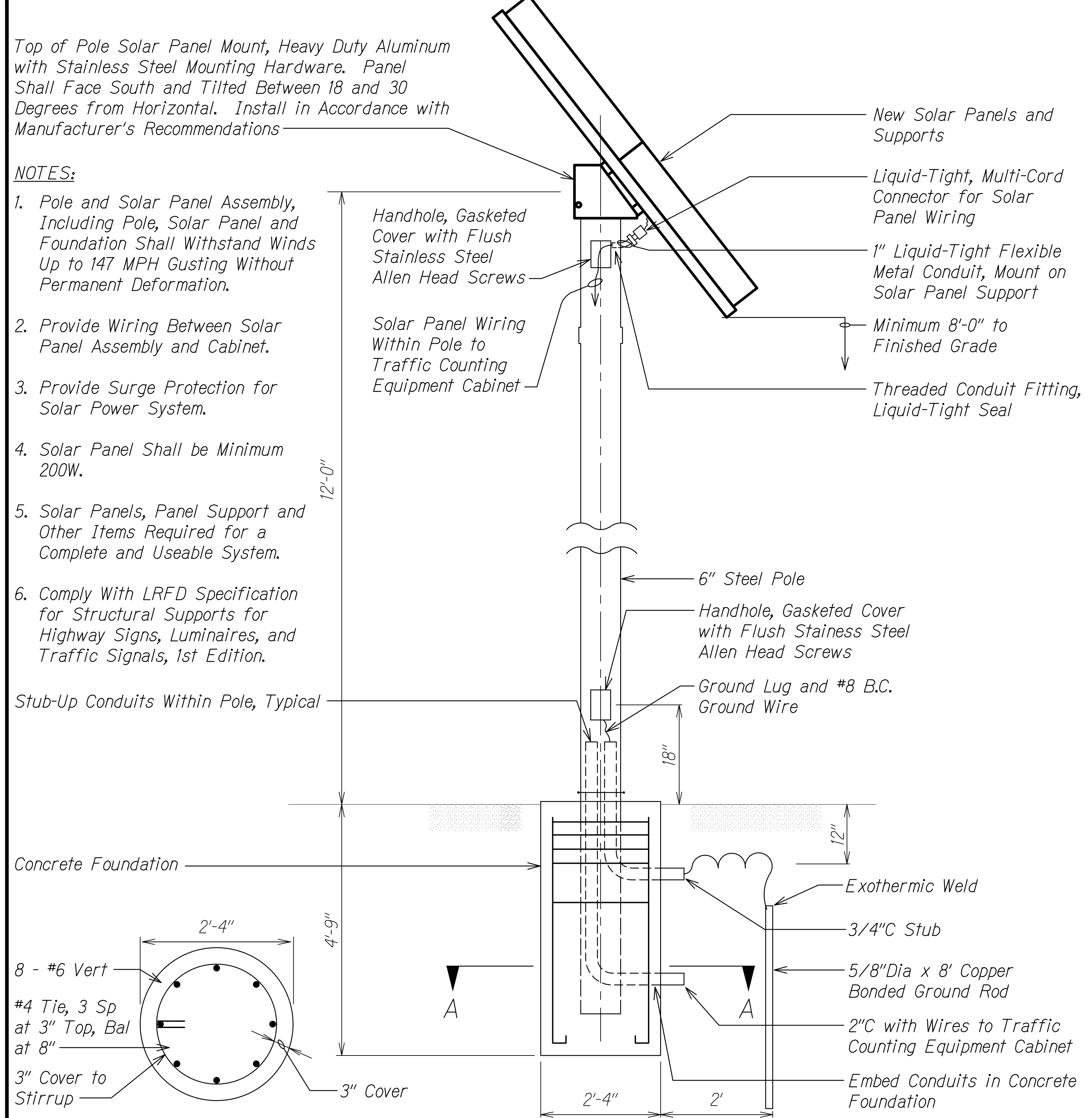
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-(279)R	2021	341	381

Top of Pole Solar Panel Mount, Heavy Duty Aluminum with Stainless Steel Mounting Hardware. Panel Shall Face South and Tilted Between 18 and 30 Degrees from Horizontal. Install in Accordance with Manufacturer's Recommendations

**NOTES:**

1. Pole and Solar Panel Assembly, Including Pole, Solar Panel and Foundation Shall Withstand Winds Up to 147 MPH Gusting Without Permanent Deformation.
2. Provide Wiring Between Solar Panel Assembly and Cabinet.
3. Provide Surge Protection for Solar Power System.
4. Solar Panel Shall be Minimum 200W.
5. Solar Panels, Panel Support and Other Items Required for a Complete and Useable System.
6. Comply With LRFD Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1st Edition.

Stub-Up Conduits Within Pole, Typical

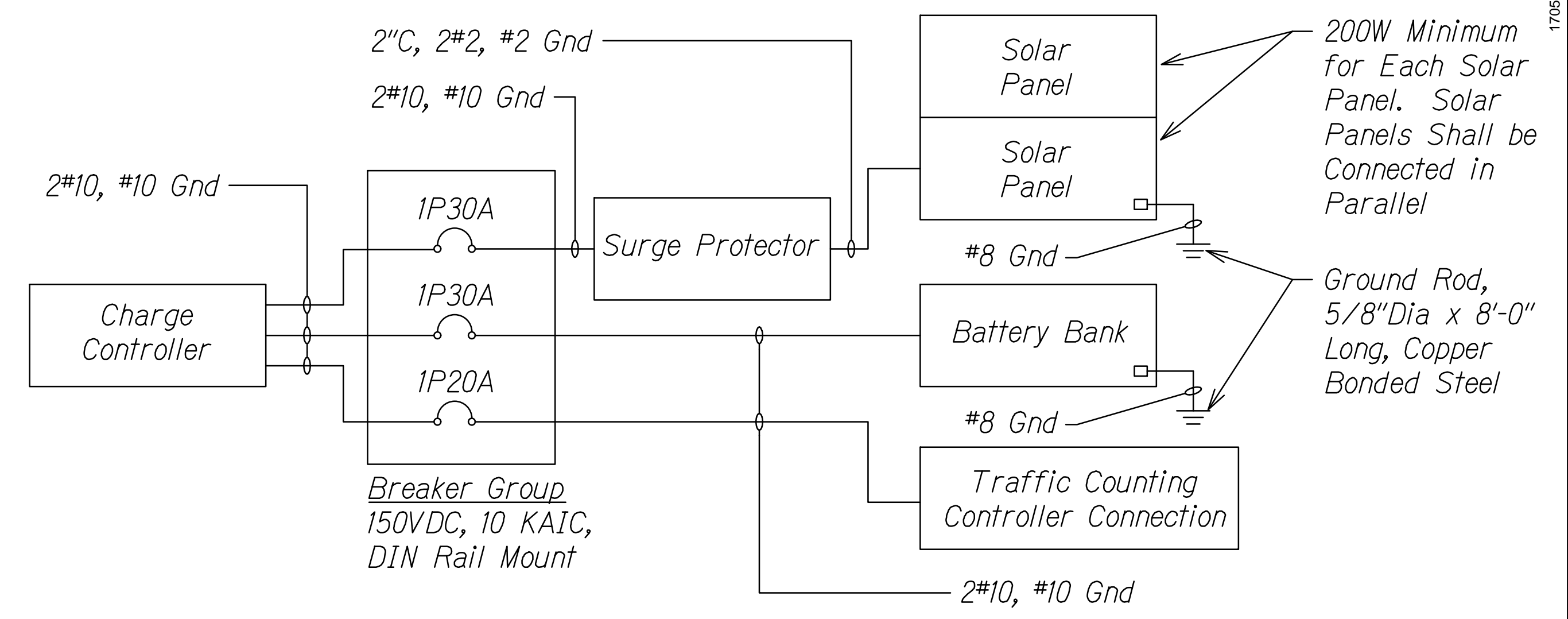


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SECTION A-A

**A** POLE AND SOLAR PANEL ASSEMBLY  
ET-19 NTS

- NOTES:**
1. Duct Seal Conduit Stubs.

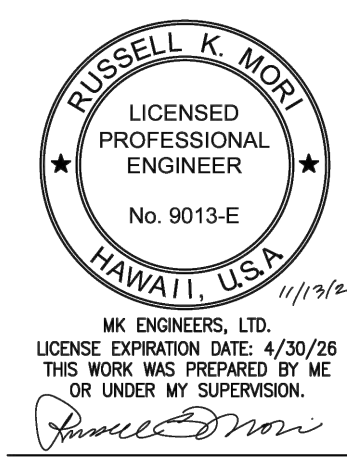


SOLAR POWER ONE-LINE DIAGRAM

NTS

**NOTES:**

1. DC Surge Protector Shall be Rated minimum 60,000 Amps and 2,000 Joules per Pole. Provide with Integral Weatherproof Enclosure.
2. Size Charge Controller to be Compatible with Solar Panel Output.
3. Verify All Requirements with Solar Equipment Manufacturer. Verify with Traffic Counting Equipment Requirements. Install per Manufacturer's Recommendations.



STATE OF HAWAII  
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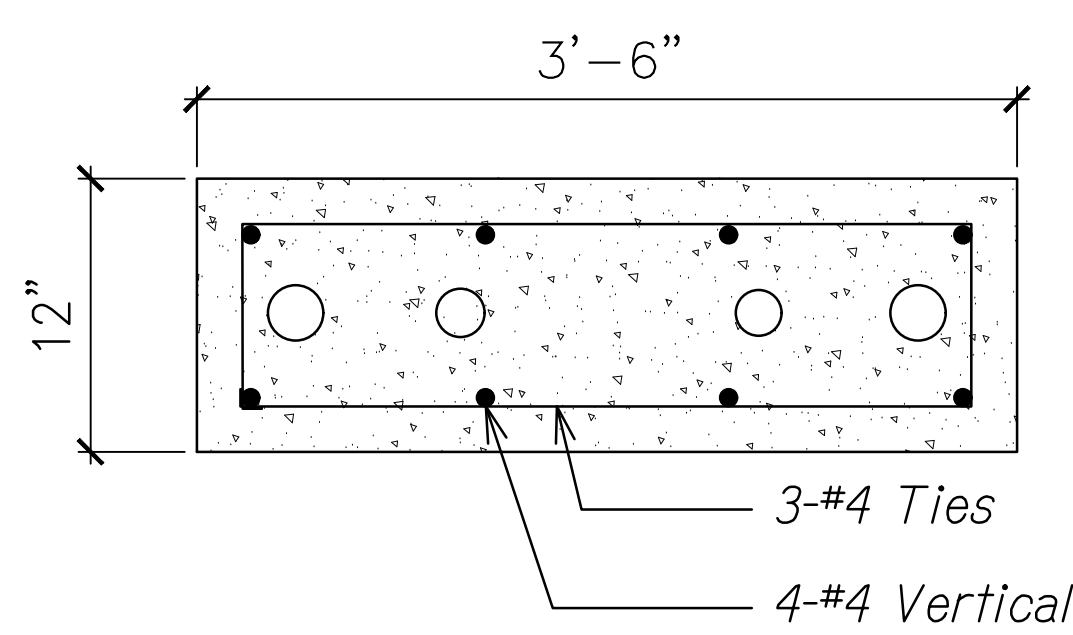
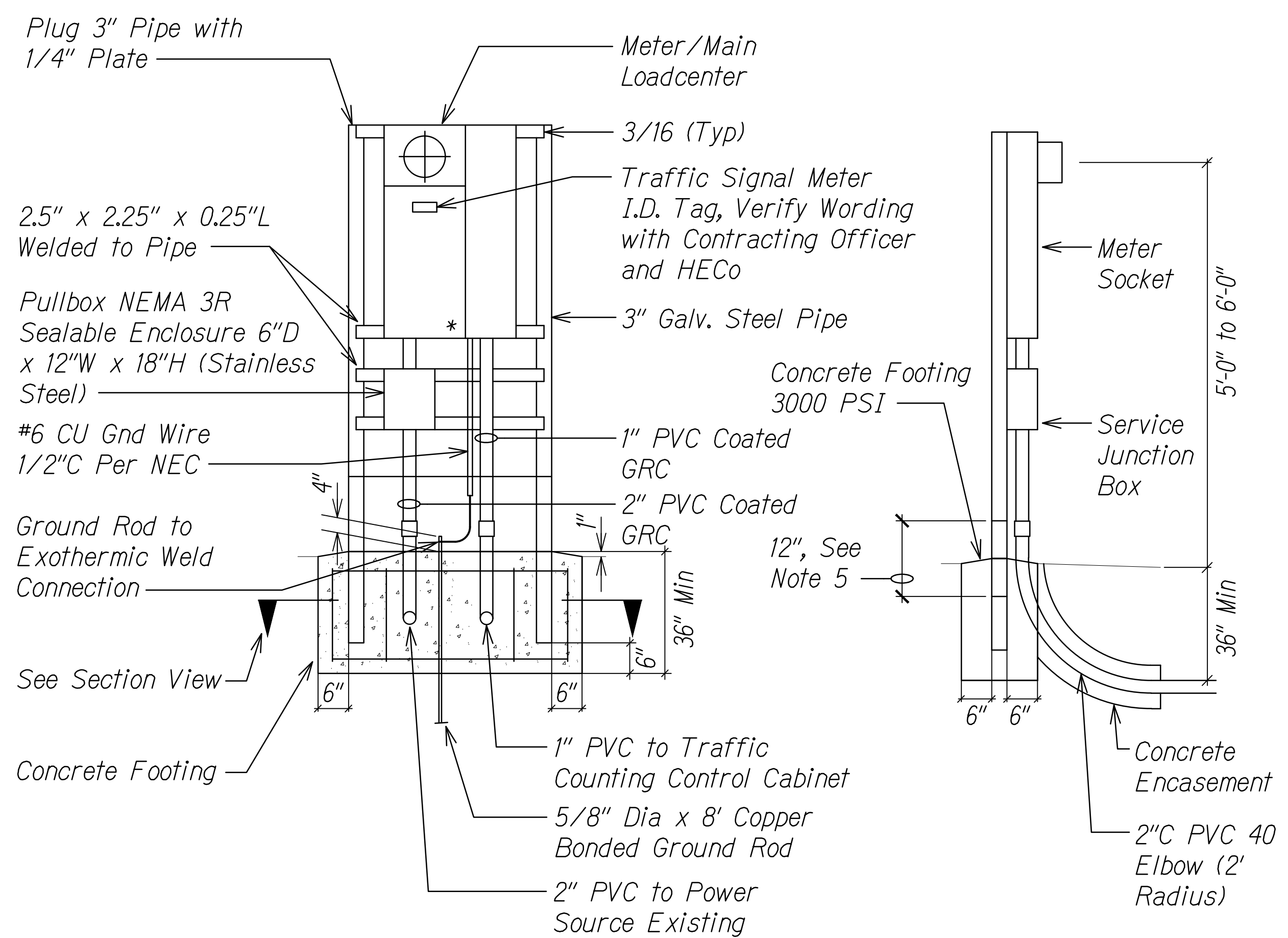
**SOLAR POWER DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-(279)-R

Scale: As Noted      Date: August, 2023

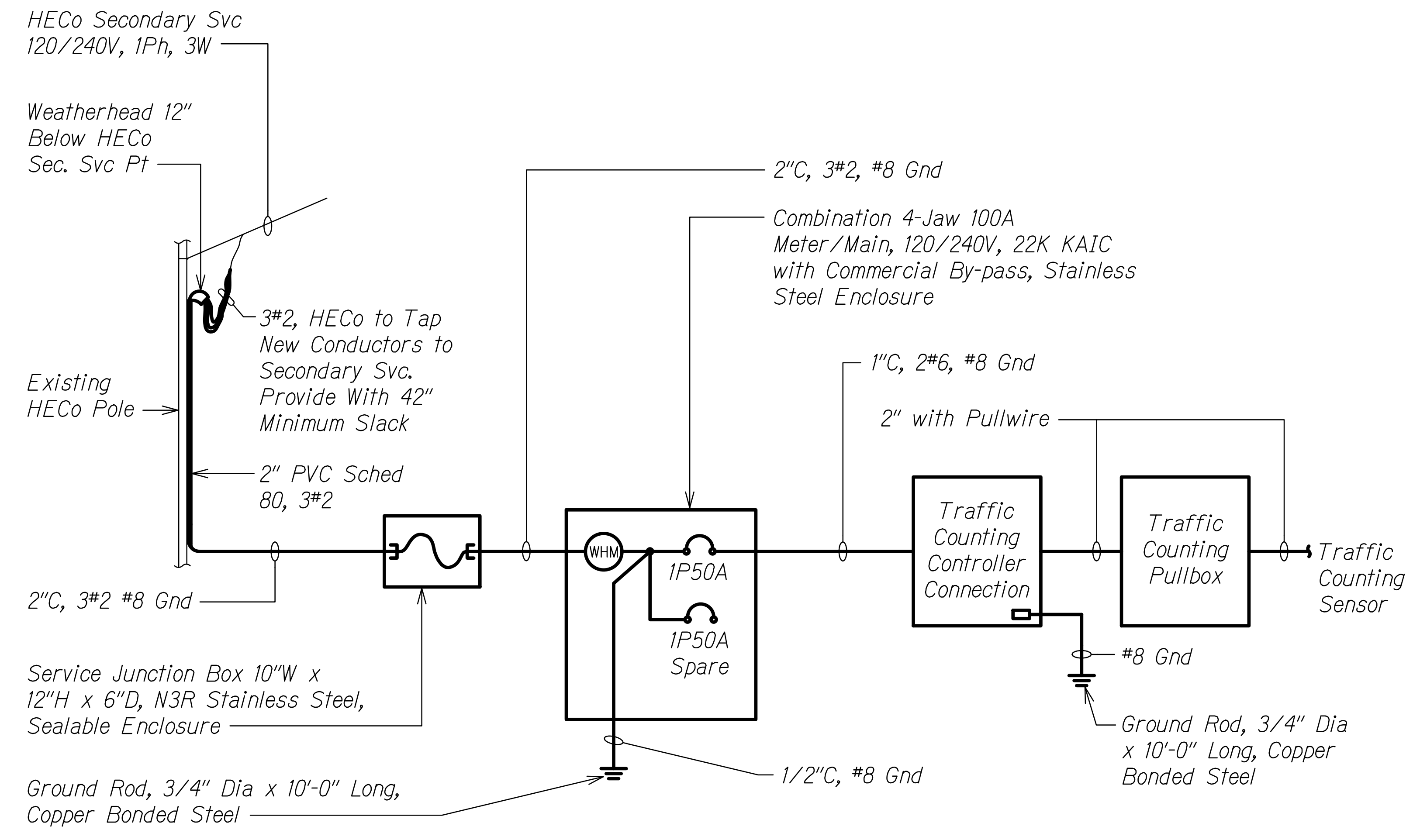
SHEET No. ET-19 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	342	381



All reinforcement to conform to ASTM A615, Gr. 60  
Clear cover to reinforcing steel = 3"

Section View

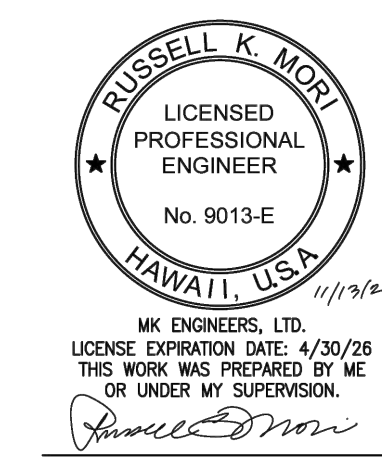


TYPICAL ONE-LINE DIAGRAM

- NOTES:  
1. Light Lines Denote Work Done by Others  
**Bold Lines** Denote New Work

**A** TYPICAL METER PEDESTAL FOR UNDERGROUND SERVICE ELECTRICAL SERVICE DETAIL  
ET-20 NTS

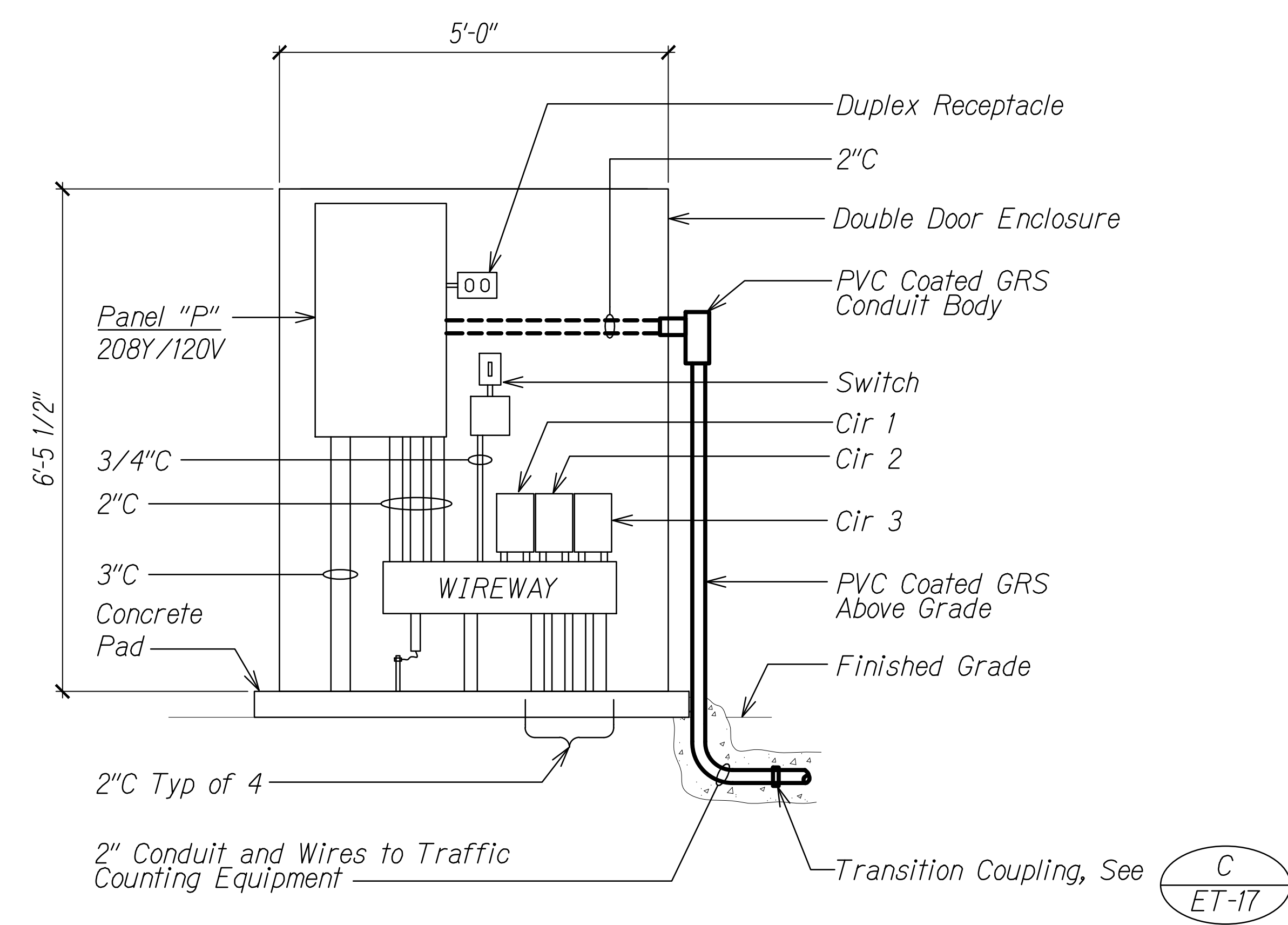
- NOTES:
1. Pedestal Shall be Hot Dipped Galvanized After Fabrication.
  2. All Fastening Bolts, Nuts, and Washers Shall be Stainless Steel.
  3. Provide 4 Feet Clearance in Front of Meter.
  4. \* Denotes Sealable, NEMA 3R.
  5. Coat Portion of Post 6" Above & Below Conc Foundation with Two Coats Asphaltic Based Paint or Tape with Electrical Tape, Half Lapped.
  6. Meter Shall be Provided by HECO.
  7. Meter Pedestal Shall be Installed Within State Right-of-Way.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**TYPICAL METER PEDESTAL  
DETAIL**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R  
Scale: As Noted Date: August, 2023  
SHEET No. ET-20 OF 25 SHEETS

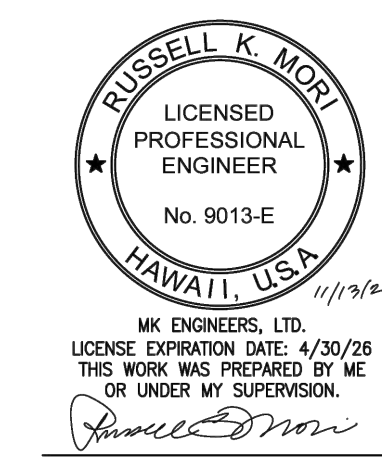


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-(279)R	2021	343	381

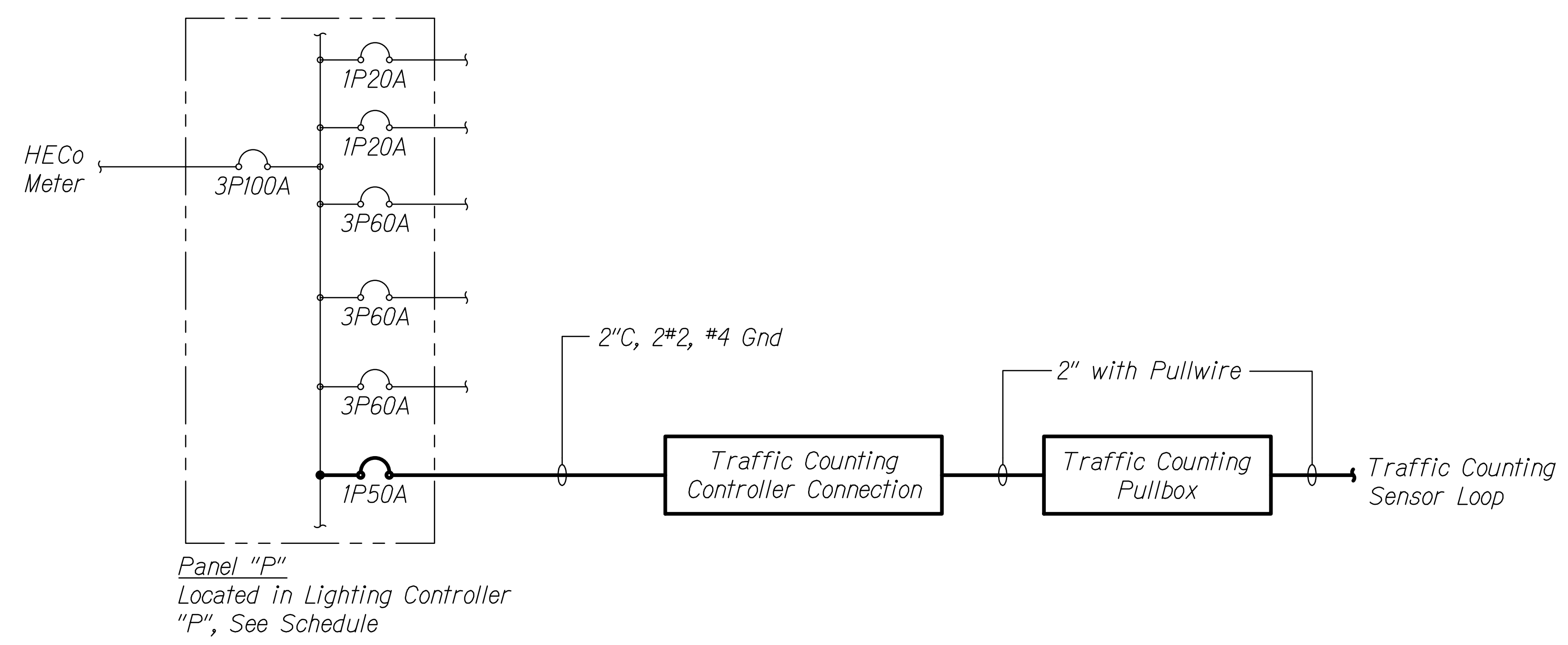


**A** LIGHTING CONTROLLER "P" ELEVATION  
 ET-21 NTS

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STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**LIGHTING CONTROLLER**  
**"P" ELEVATION**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. NH-H1-(279)-R  
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 SHEET No. ET-21 OF 25 SHEETS



**EXISTING PANEL "P"**

VOLTAGE: 208Y/120V, 3 PH, 4W  
 BUS: COPPER  
 BUS RATING: 100  
 AIC: 10,000

MAIN BKR: 3P150A  
 TYPE: BOLT-ON  
 MOUNT: SURFACE  
 ENCLOSURE: NEMA 1

EQUIPMENT GROUND BUS: YES  
 ISOLATED GROUND BUS: NO  
 FEED THRU LUGS: NO  
 U.L. LISTED AS SERVICE ENTRANCE EQUIPMENT: YES

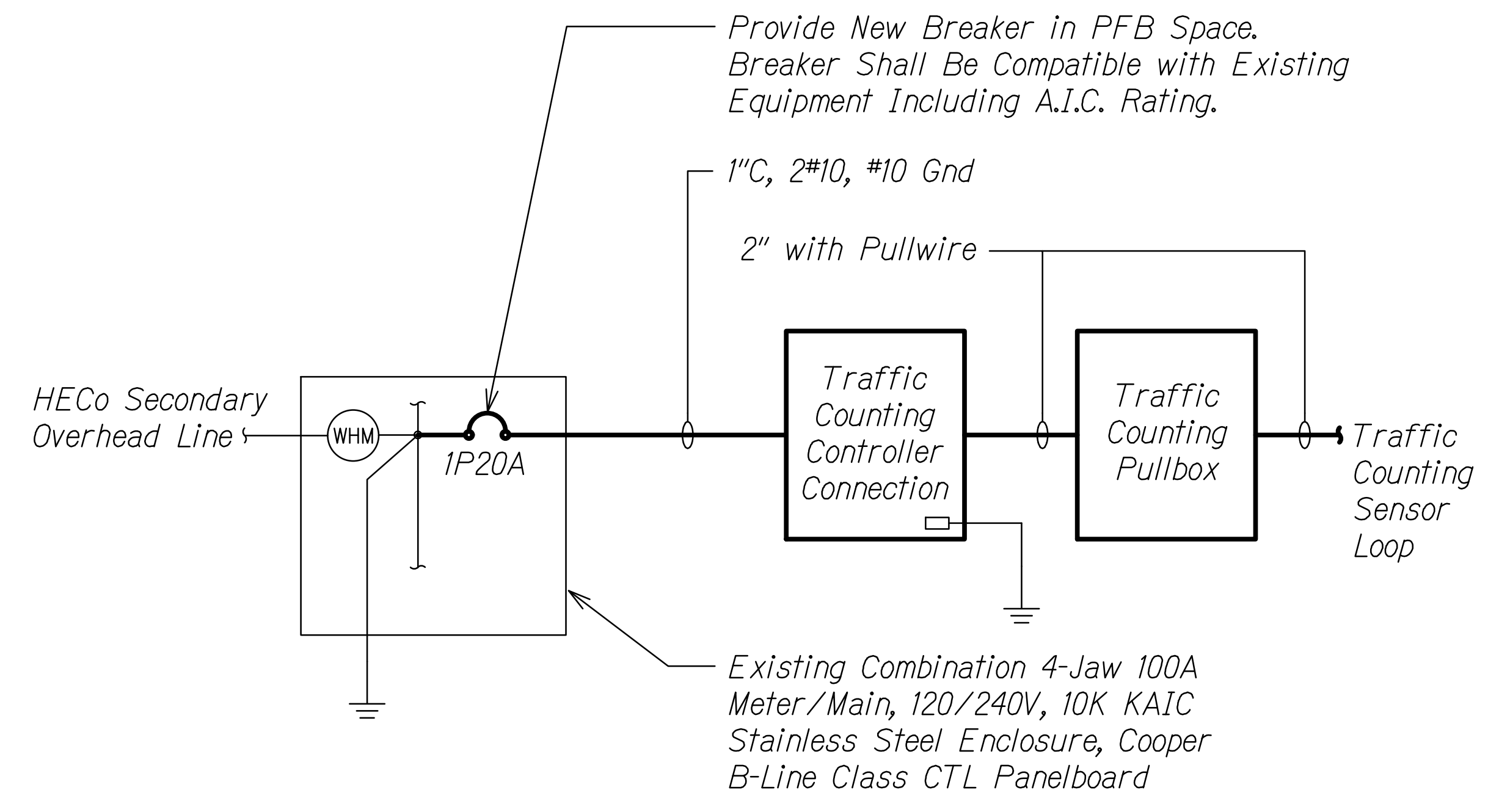
A	KVA			DESCRIPTION: L-LIGHTS R-RECEPTACLE, S-SPARE PFB-PROV FOR FUTURE CB	CKT BKR	CKT NO	CKT NO	CKT BKR	DESCRIPTION: L-LIGHTS R-RECEPTACLE, S-SPARE PFB-PROV FOR FUTURE CB	KVA			
	A	B	C							A	B	C	
2.5				FEEDER "P1"	3P60A	1	2	1P20A	R	0.5			
	2.5			PART OF 1	--	3	4	1P20A	LIGHTING CONTACTOR		0.5		
		2.5		PART OF 1	--	5	6	1P50A	TRAFFIC COUNTING EQUIPMENT			2.0	
				PFB	--	7	8	3P60A	FEEDER "P2"	2.4			
				PFB	--	9	10	--	PART OF 8		2.4		
				PFB	--	11	12	--	PART OF 8			2.4	
				PFB	--	13	14	3P60A	FEEDER "P3"	2.0			
				PFB	--	15	16	--	PART OF 14		2.0		
				PFB	--	17	18	--	PART OF 14			2.0	
2.5	2.5	2.5	SUBTOTALS								4.9	4.9	6.4

**NOTES:**  
 1. \* - PROVIDE NEW CIRCUIT BREAKER IN PFB SPACE. BREAKER SHALL BE FULLY COMPATIBLE WITH THE EXISTING PANEL, INCLUDING AIC RATING.  
 2) PANEL INFORMATION BASED ON AVAILABLE REFERENCE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

**A** PANEL "P" ONE-LINE DIAGRAM

ET-22

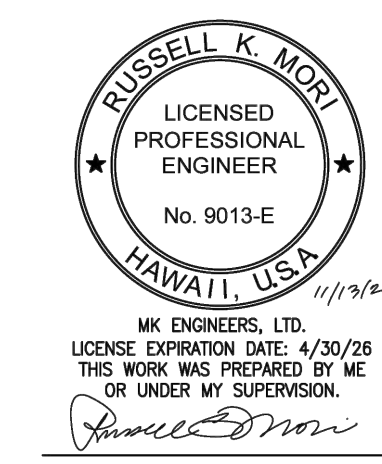
- NOTES:**  
 1. Light Lines Denote Work Done by Others  
 Bold Lines Denote New Work



**B** HECO #664286 ONE-LINE DIAGRAM

ET-22

- NOTES:**  
 1. Light Lines Denote Work Done by Others  
 Bold Lines Denote New Work



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**PANEL SCHEDULE AND ONE-LINE DIAGRAM**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. NH-H1-(279)-R

Scale: As Noted Date: August, 2023

HAWAIIAN ELECTRIC COMPANY NOTES:

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HAWAII	HAW.	NH-HI-1(279)R	2021	345	381

1. Location of Hawaiian Electric Facilities

The Location of Hawaiian Electric's Overhead and Underground Facilities Shown on the Plans Are From Existing Records with Varying Degrees of Accuracy and Are Not Guaranteed as Shown. The Contractor Shall Verify in the Field the Locations of the Facilities and Shall Exercise Proper Care in Excavating and Working in the Area. Wherever Connections of New Utilities to Existing Utilities and Utility Crossings are Shown, the Contractor Shall Expose the Existing Lines at the Proposed Connections and Crossings to Verify the Depths Prior to Excavation for the New Lines. The Contractor Shall be Responsible for Any Damages to Hawaiian Electric's Facilities Whether Shown or Not Shown on the Plans.

2. Compliance with Hawaii Occupational Safety and Health Laws

The Contractor Shall Comply with the State of Hawaii's Occupational Safety and Health Laws and Regulations, Including Without Limitation, Those Related to Working on or Near Exposed or Energized Electrical Lines and Equipment.

3. Excavation Clearance

The Contractor Shall Obtain an Excavation Clearance from Hawaiian Electric's Planning and Design Section of the Customer Installations Division (543-5654) Located at 820 Ward Avenue, 4th Floor, a Minimum of Ten (10) Working Days Prior to Starting Construction.

4. Caution!!! Electrical Hazard!!!

Existing Hawaiian Electric Overhead and Underground Lines are Energized and Will Remain Energized During Construction Unless Prior Special Arrangements Have Been Made with Hawaiian Electric. Only Hawaiian Electric Personnel are to Handle These Energized Lines and Erect Temporary Guards to Protect These Lines from Damage. The Contractor Shall Work Cautiously at all Times to Avoid Accidents and Damage to Existing Hawaiian Electric Facilities, Which Can Result in Electrocution.

5. Overhead Lines

State Law (OSHA) Requires that a Worker and the Longest Object He or She May Contact Cannot Come Closer than a Specified Minimum Radial Clearance When Working Close to or Under Any Overhead Lines. It is the Contractor's Responsibility to be Informed of and Comply with the Law.

At Any Time Should the Contractor Anticipate that His Work Will Result in the Need to Encroach Within the Minimum Required Clearance as Stated in the Law, the Contractor Shall Notify Hawaiian Electric at Least Three (3) Months Prior to the Planned Encroachment so that, if Feasible, the Necessary Protections (e.g. Relocate or De-Energize Hawaiian Electric Lines) can be Investigated. Hawaiian Electric May also be Able to Blanket its Distribution (12Kv and Below) Lines to Provide a Visual Aid in Preventing Accidental Contact. Hawaiian Electric's Cost of Safeguarding or Identifying its Lines will be Charged to the Contractor.

Contact Hawaiian Electric's Customer Installations Division at 543-7070 for Assistance in Identifying and Safeguarding Overhead Power Lines.

6. Pole Bracing

Contractor Shall not Excavate Within 10 Feet From Hawaiian Electric's Utility Poles or Any Anchor System Supporting the Utility Pole. If Contractor Must Excavate Closer than 10 Feet From a Utility Pole or its Anchor System, Contractor will be Responsible for Protecting, Supporting, Securing and Taking all Precautions to Prevent Damage to or Leaning of Existing Poles. Before Commencing such Excavation, Contractor Must Submit its Bracing Calculations and Drawings, Prepared and Stamped by a Licensed Structural Engineer, to Hawaiian Electric's Customer Installations Division (543-7070) for Review. Hawaiian Electric Requires a Minimum of Ten (10) Working Days to Conduct the Review of Contractor's Submittal. Contractor Shall be Responsible for the Design, Installation, and Removal of the Temporary Pole Bracing System, As Well As All Costs Incurred By Hawaiian Electric to Review Contractor's Drawings and to Repair or Straighten Poles Impacted by Contractor's Activities, Including Response and Restoration Costs Incurred by Hawaiian Electric Arising Out of or Related to Outages Caused by Contractor's Failure to Meet the Foregoing Requirements. Hawaiian Electric's Review and Approval of Any Contractor Submittals Including its Work Procedure Shall Not Relieve Contractor From Any Liability Resulting From Contractor's Excavation Near or Around Hawaiian Electric's Utility Poles.

7. Underground Lines

The Contractor Shall Exercise Extreme Caution Whenever Construction Crosses or is in Close Proximity of Underground Lines. Hawaiian Electric's Existing Electrical Cables are Energized and will Remain Energized During Construction. Only Hawaiian Electric Personnel are to Break into Existing Hawaiian Electric Facilities, Handle These Cables, and Erect Temporary Guards to Protect These Cables from Damage. The Cost of Hawaiian Electric's Assistance in Providing Proper Support and Protection of its Underground Lines will be Charged to the Contractor. For Assistance/Coordination in Providing Proper Support and Protection of These Lines, the Contractor Shall Call Hawaiian Electric's Customer Installations Division at 543-7070 a Minimum of Ten (10) Working Days in Advance.

Special Precautions are Required when Excavating Near Hawaiian Electric's 138Kv or 46kv Underground Lines (See Hawaiian Electric Instructions to Consultants/Contractors on "Excavation Near Hawaiian Electric's Underground 138Kv and/or 46Kv Lines" for Detail Requirements).

For Verification of Underground Lines, the Contractor Shall Call the Hawaii One Call Center at 866-423-7287 Minimum of Five (5) Working Days in Advance.

8. Underground Fuel Pipelines

The Contractor Shall Exercise Extreme Caution Whenever Construction Crosses or is in Close Proximity of Hawaiian Electric's Underground Fuel Oil Pipelines. Special Precautions are Required When Excavating Near Hawaiian Electric's Underground Fuel Oil Pipelines (See Hawaiian Electric's Specific Fuel Pipeline "Guidelines" To Consultants/Contractors on Excavation Near Hawaiian Electric's Underground Fuel Pipelines for Detailed Requirements).

9. Excavations

When Trench Excavations is Adjacent to or Beneath Hawaiian Electric's Existing Structures or Facilities, the Contractor is Responsible for:

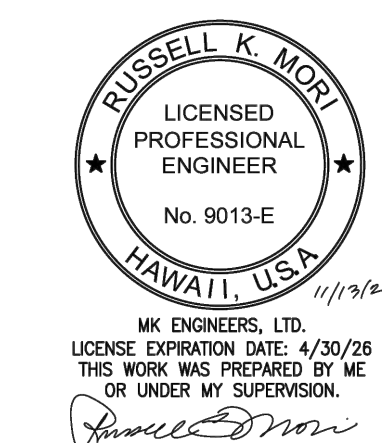
- a. Arranging for Hawaiian Electric Standby Personnel to Observe Work at Contractor's Cost.
- b. Sheeting, Bracing, or Otherwise Supporting the Excavation and Stabilizing the Existing Ground to Render it Safe and Secure and to Prevent Possible Slides, Cave-Ins, and Settlements.
- c. Properly Supporting Existing Structures or Facilities with Beams, Struts, Under-Pinnings, or Other Necessary Methods to Fully Protect it From Damage.
- d. Backfilling with Proper Backfill Material Including Special Thermal Backfill Where Existing (Refer to Engineering Division for Thermal Backfill Specifications).

10. Relocation of Hawaiian Electric Facilities

Any Work Required to Relocate or Modify Hawaiian Electric Facilities Shall be Done by Hawaiian Electric, or by the Contractor Under Hawaiian Electric's Supervision. The Contractor Shall be Responsible for all Coordination, and Shall Provide Necessary Support for Hawaiian Electric's Work, Which May Include, but Not be Limited to, Staking of Pole/Anchor Locations, Identifying Right of Way and Property Lines, Excavations and Backfill, Permits and Traffic Control, Barricading, and Restoration of Pavement, Sidewalks, and Other Facilities.

All Costs Associated with any Relocation or Modification (Either Temporary or Permanent) for the Convenience of the Contractor, or to Enable the Contractor to Perform His Work in a Safe and Expeditious Manner in Fulfilling His Contract Obligations Shall be Borne by the Contractor.

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HECO NOTES**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

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HAWAIIAN ELECTRIC COMPANY NOTES (CONT'D):

11. Conflicts

Any Redesign or Relocation of Hawaiian Electric's Facilities not Shown on the Plans May be Cause for Lengthy Delays. The Contractor Acknowledges that Hawaiian Electric is Not Responsible for any Delay or Damage that May Arise as a Result of Any Conflicts Discovered or Identified with Respect to the Location or Construction of Hawaiian Electric's Electrical Facilities in the Field, Regardless of Whether the Contractor Has Met the Requested Minimum Advance Notices. In Order to Minimize Any Delay or Impact Arising from Such Conflicts, Hawaiian Electric Should be Notified Immediately Upon Discovery or Identification of Such Conflict.

12. Damage to Hawaiian Electric Facilities

The Contractor Shall be Responsible for the Protection of all Hawaiian Electric Surface and Subsurface Utilities and Shall be Responsible for any Damages to Hawaiian Electric's Facilities as a Result of His Operations. The Contractor Shall Immediately Report Such Damages or any Hazardous Conditions Related to Hawaiian Electric's Lines to Hawaiian Electric's Trouble Dispatcher at 548-7961. Repair Work Shall be Done by Hawaiian Electric or by the Contractor Under Hawaiian Electric's Supervision. Costs for Damages to Hawaiian Electric's Facilities Shall be Borne by the Contractor.

In Case of Damage or Suspected Damage to Hawaiian Electric's Fuel Pipeline, the Contractor Shall Immediately Notify Hawaiian Electric's Security Command Center at 543-7685 (a 24-Hour Number) so Hawaiian Electric Personnel Can Secure the Damaged Section and Report any Oil Spills to the Proper Authorities. All Costs Associated with the Damage, Repair, and Oil Spill Cleanup Shall be Borne by the Contractor.

13. Hawaiian Electric Stand-by Personnel

The Contractor May Request Hawaiian Electric to Provide an Inspector to Stand-by During Construction Near Hawaiian Electric's Facilities. The Cost of Such Inspection will be Charged to the Contractor.

The Contractor Shall Call Hawaiian Electric's Customer Installations Division at 543-7070 a Minimum of Three (3) Months in Advance to Arrange for Hawaiian Electric Stand-by Personnel.

14. Clearances

The Following Clearances Shall be Maintained Between Hawaiian Electric's Ductline and all Adjacent Structures (Charted and Uncharted) in the Trench:

Guidelines For Minimum Horizontal (parallel) Clearances Between Hawaiian Electric and Other Underground Utilities				
Underground Utility	Hawaiian Electric Direct Buried Cable	Hawaiian Electric Direct Buried In Conduit (no Concrete Encasement)	Hawaiian Electric 3" (Minimum) Concrete Encasement	Applicable Notes:
Hawaiian Electric DB Conduits	12"	3"	0"	
Hawaiian Electric 3" Encasement	0"	0"	0"	
Telephone/CATV DB	12"	12"	6"	
Telephone/CATV DB Ducts	12"	12"	6"	
Telephone/CATV 3" Encasement	0"	0"	0"	5
Traffic Signal	12"	12"	12"	
Water DB (BWS Owned)	36"	36"	36"	1, 4
Customer Owned Water Service Laterals	12"	12"	12"	
Water (concrete Jacketed) (BWS Owned)	36"	36"	36"	1, 4
Gas DB	12"	12"	12"	1
Gas (Concrete Jacketed)	12"	12"	12"	1
Sewer DB	36"	36"	36"	1, 2
Sewer (Concrete Jacketed)	36"	36"	36"	1, 2
Drain	12"	12"	12"	1
Fuel Pipelines				3

Notes:

- Where Space is Available, Parallel Clearance to Other Utilities, or Foreign Structures other than Communication or Traffic Signal Shall be 36".
- If 36" Clearance Cannot be Met:
  - If Clearance is Less than 12", Jacket Sewer Line with Reinforced Concrete (Per Hawaiian Electric's Std 30-1030) for a Distance of 5' Plus Pipe Diameter.
  - If Clearance is Between 12" and 36", Jacket Sewer Line with Plain Concrete.
- All Fuel Pipeline Crossings Shall be Reviewed and Approved by the Company that Owns and Maintains it.
- 5 Feet Clear to Water Mains 16" and Larger.
- For Situations with 0" Minimum Separation, a 6" Separation is Recommended.
- Clearances Measured from Outer Edges or Diameters of Utilities. Whenever Concrete Jackets are Involved, Clearances Shall be Total Clear Distance Between the Concrete Jacket and Utility Concerned.

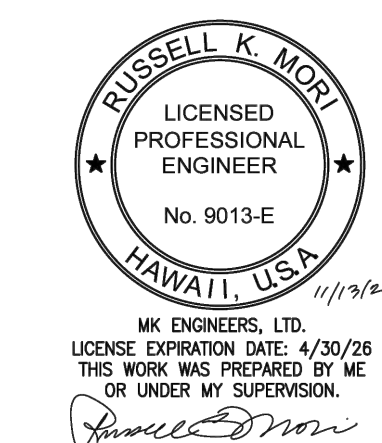
Guidelines For Minimum Vertical (Crossing) Clearances Hawaiian Electric and Other Underground Utilities				
Underground Utility	Hawaiian Electric Direct Buried Cable	Hawaiian Electric Direct Buried In Conduit (No Concrete Encasement)	Hawaiian Electric 3" (Minimum) Concrete Encasement	Applicable Notes:
Hawaiian Electric DB Conduits	6"	3"	0"	
Hawaiian Electric 3" Encasement	0"	0"	0"	
Telephone/CATV DB	12"	12"	6"	
Telephone/CATV DB Ducts	12"	12"	6"	
Telephone/CATV 3" Encasement	0"	0"	0"	3
Traffic Signal	12"	12"	6"	
Water DB (BWS Owned)	12"	12"	12"	5
Customer Owned Water Service Laterals	6"	6"	6"	
Water (concrete Jacketed) (BWS Owned)	12"	12"	12"	5
Gas DB	12"	12"	12"	
Gas (Concrete Jacketed)	12"	12"	12"	
Sewer DB	24"	24"	24"	1
Sewer (Concrete Jacketed)	24"	24"	24"	1
Drain	12"	12"	6"	
Fuel Pipelines				2

Notes:

- If Clearance Cannot be Met:
  - If Clearance is Less than 12", Jacket Sewer Line with Reinforced Concrete (Per Hawaiian Electric's Std 30-1030) for a Distance of 5' Plus Pipe Diameter.
  - If Clearance is Between 12" and 24", Jacket Sewer Line with Plain Concrete.
- All Fuel Pipeline Crossings Shall be Reviewed and Approved by The Company that Owns and Maintains it.
- For Situations with 0" Minimum Separation, a 6" Separation is Recommended.
- Clearances Measured from Outer Edges or Diameters of Utilities. Whenever Concrete Jackets are Involved, Clearances Shall be Total Clear Distance Between the Concrete Jacket and Utility Concerned.
- 36" Clearance is Required for Trenchless Installation Work.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	346	381

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**HECO NOTES**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted Date: August, 2023

SHEET No. ET-24 OF 25 SHEETS

HAWAIIAN ELECTRIC COMPANY NOTES (CONT'D):

The Contractor Shall Notify The Construction Manager & Hawaiian Electric Of Any Heat Sources (power Cable Duct Bank, Steamline, Etc.) Encountered That Are Not Properly Identified On The Drawing.

15. Idemnity

The Contractor Shall Indemnify, Defend and Hold Harmless Hawaiian Electric from And Against all Losses, Damages, Claims and Actions, Including but not Limited to Reasonable Attorney's Fees and Costs Based Upon or Arising Out of Damage to Property or Injuries to Persons, or Other Tortious Acts Caused or Contributed to by Contractor or Anyone Acting Under its Direction or Control or on its Behalf; Provided Contractor's Indemnity Shall not be Applicable to Any Liability Based Upon the Sole Negligence of Hawaiian Electric.

Additional Notes When Work Involves Construction of Hawaiian Electric Facilites

16. Schedule

Contractor Shall Furnish His Construction Schedule Six (6) Months Prior to Starting Work on Hawaiian Electric Facilities. Contractor Shall Give Hawaiian Electric, in Writing, Three (3) Months Notice to Proceed with Hawaiian Electric's Portion of Work.

17. Authority

All Construction, Restoration Work, and Inspection Shall be Subject to Whichever Governmental Agency has Authority Over the Work.

18. Specifications

Construction of Hawaiian Electric's Underground Facilities Shall be Constructed in Accordance with The Latest Revisions of Hawaiian Electric Specifications CS7001, CS7003, CS7202, CS9301, and CS9401 and Applicable Hawaiian Electric Standards.

19. Construction

Contractor Shall Furnish All Labor, Materials, Equipment, and Services to Properly Perform and Fully Complete All Work Shown on the Contract, Drawings, and Specifications. All Materials Shall be New and Manufactured in the United States of America. All Manhole, Handhole, and Ductline Installations Shall be Inspected and Approved by Hawaiian Electric Prior to Excavation and Prior to Placing Concrete. Contractor Shall Notify Hawaii Electric's Inspection Group at 543-4325 at Least Five (5) Working Days Prior to Installing Facilities or Placing Concrete.

Contractor to Coordinate Work to Break into Hawaiian Electric's Existing Electrical Facilities with Hawaiian Electric's Inspection Group at 543-4325 at Least Ten (10) Working Days in Advance.

20. Stakeout

The Contractor Shall Arrange for Toneouts of All Underground Facilities and Shall Stakeout All Proposed Hawaiian Electric Facilities Within the Project Area so as to Not Conflict with Any Utility (Existing or Proposed) and Any Proposed Construction or Improvement Work for Verification by Hawaiian Electric Before Proceeding with Hawaiian Electric Work.

21. Ductlines

All Ductline Installations Shall be PVC Schedule 40 Encased in Concrete, Unless Otherwise Noted. All Completed Ductlines Shall be Mandrel Tested by the Contractor in the Presence of Hawaiian Electric's Inspector Using Hawaiian Electric's Standard Practice. The Contractor Shall Install 1800# Tensile Strength Muletape Pull Line in All Completed Ductlines After Mandrel Testing is Complete.

22. Joint Pole Removal

The Last Joint Pole Occupant off the Poles Shall Remove the Poles.

23. As-Built Plans

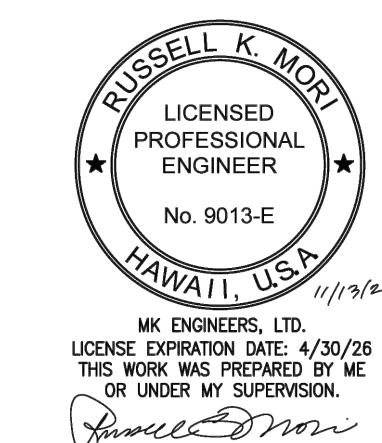
The Contractor Shall Provide Hawaiian Electric with a Set of Electronic and Hard Copy Plans of Each Sheet Showing the Offsets, Stationing, and Vertical Elevation of the Duct Line(s) Constructed.

GENERAL CONSTRUCTION NOTES

- A. Trenching to be by Hand Digging Near Across Existing Utility Lines.
- B. Unless Otherwise Requested by the Board of Water Supply, Minimum Clearance Between Water Lines and Conduits Shall be:  
Horizontal = 3 Feet  
Vertical = 6 Inches
- C. Adjust New Conduit Alignment, if Required to Provide Clearances. If Conduit Cannot be Realigned, Adjustments to Existing Water System Shall be Performed in Accordance with Standards of the Board of Water Supply.
- D. Minimum Clearance Between Highway Light Standards and Fire Hydrants Shall be 3 Feet.
- E. Underground Utilities Shown Heron are for Information Only. No Guarantee is Made on the Accuracy or Completeness of Said Information.
- F. All New and Existing Concrete Pullbox and Handhole Covers Which are Located in New Finished Sidewalks Shall be Provided with New Exposed Aggregate Concrete Covers to Match New Exposed Aggregate Concrete Sidewalk Finish.
- G. Where Necessary, Reconstruction of Sidewalk, Gutter and Driveway Areas Shall Conform to the Standard Details of the Governmental Agency Having Jurisdiction Over the Work.
- H. The Contractor Shall be Responsible for Removal of a Silt and Debris Resulting from His Work and Deposited in Drainage Facilities, Roadways and Other Areas. The Cost for any Necessary Remedial Action by the Chief Engineer Shall be Payable by the Contractor.
- I. The Contractor, at His Own Expense, Shall Keep the Project Area Free from Dust Nuisance. The Work Shall be in Conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(279)R	2021	347	381

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

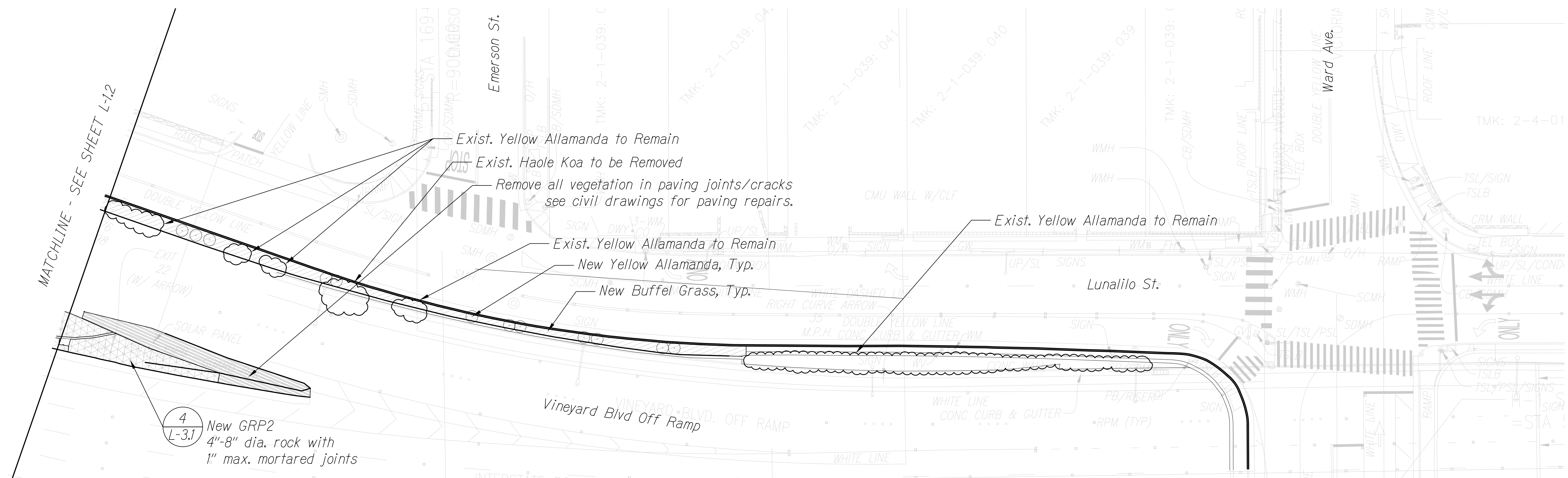
**HECo NOTES**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. NH-HI-1(279)-R

Scale: As Noted      Date: August, 2023

SHEET No. ET-25 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	348	381

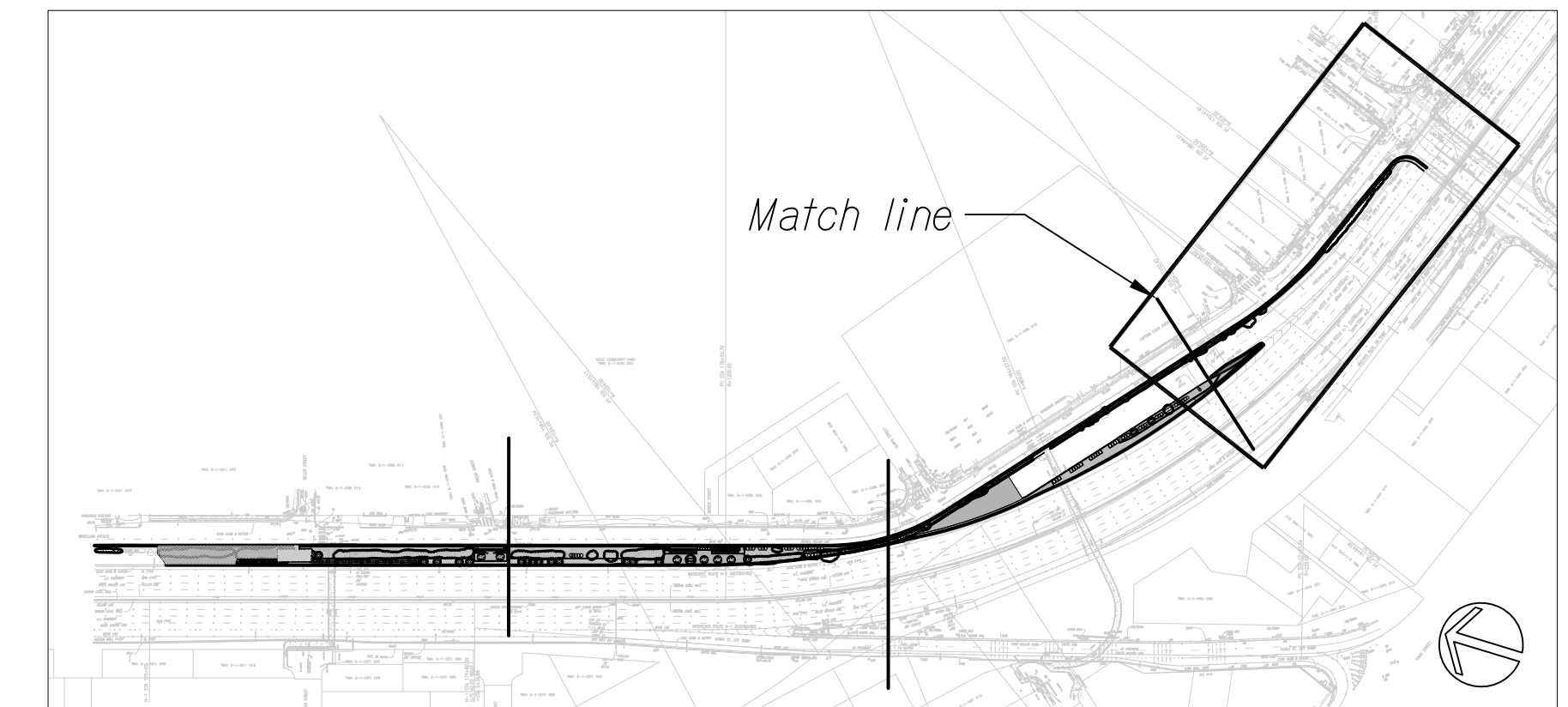


**1** LANDSCAPE PLAN  
SCALE: 1" = 20'-0"

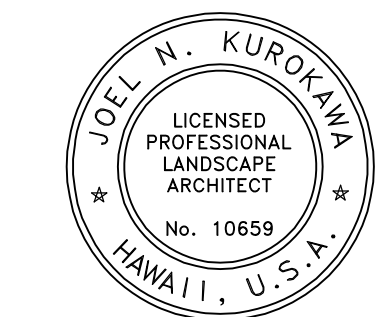
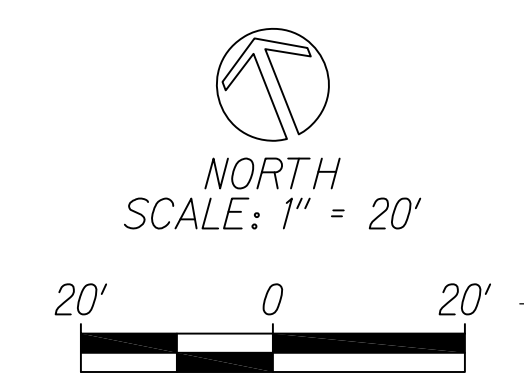
**SHEET L-1.1 PLANT SCHEDULE**

SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	12	Yellow Allamanda	Allamanda cathartica	3 Gal, (3) 24" length branches min.

MISC. MATERIALS	QTY	MATERIAL/TREATMENT TYPE
	See master plant schedule	Hydroseed Buffel Grass
	See master plant schedule	Grouted Rubble Paving Type 1 (GRP1), see master plant schedule
	415 SF	Grouted Rubble Paving Type 2 (GRP2), see master plant schedule



OVERALL SITE LEGEND  
N.T.S.



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*Joel N. Kurokawa*  
 SIGNATURE  
 04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**LANDSCAPE PLAN 1**

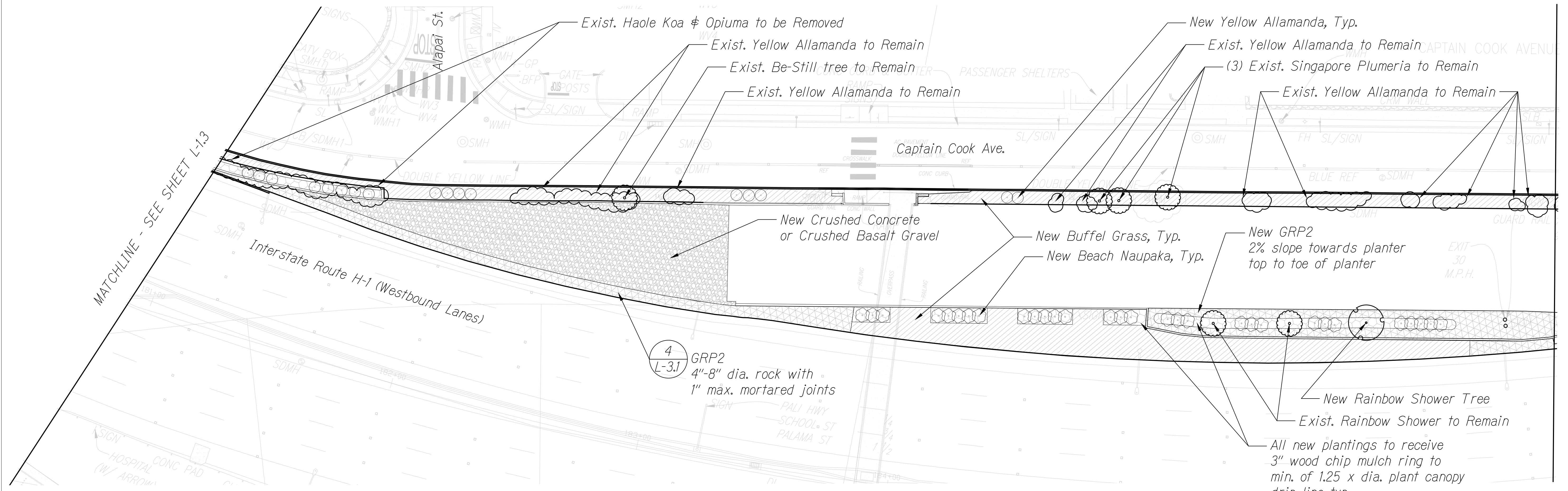
INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M

Scale: \_\_\_\_\_ Date: July, 2020

SHEET No. L-1.1 OF 4 SHEETS

Sheet notes: see L-2.1 for Master Plant Schedule, General and Planting Notes.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	349	381

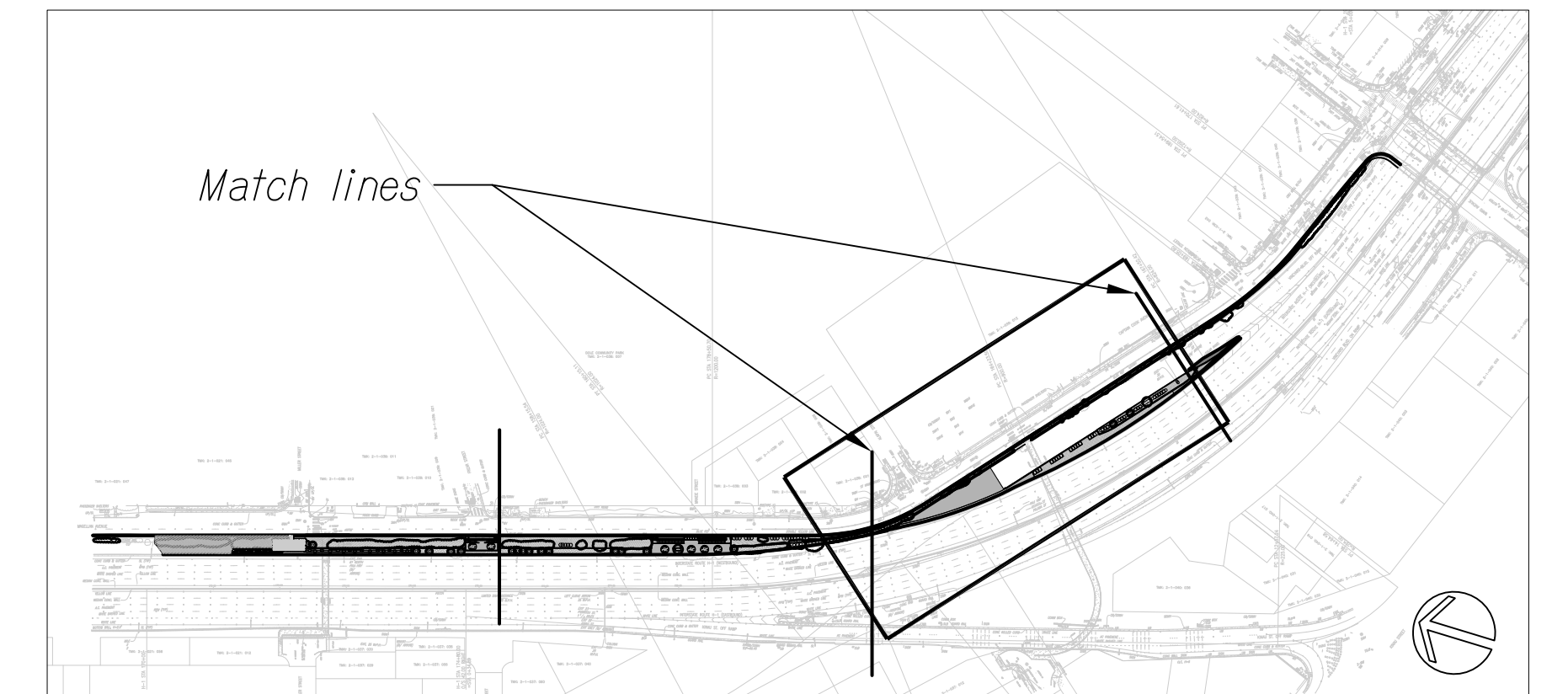


**1** LANDSCAPE PLAN  
SCALE: 1" = 20'-0"  
SHEET L-1.2 PLANT SCHEDULE

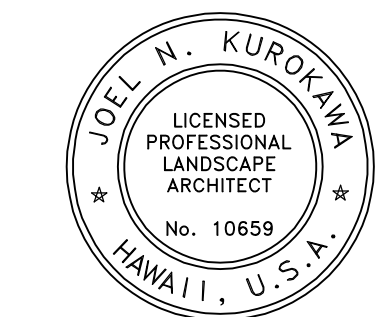
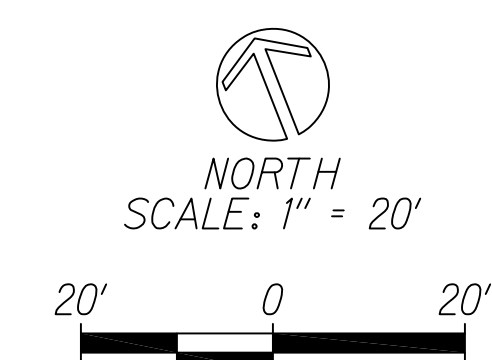
TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	1	Wilhelmina Tenney Rainbow Shower	Cassia x nealiae 'Wilhelmina Tenney'	15 Gal, 1" cal, 6' ht, branching at 5' ht.
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	30	Beach Naupaka	Scaevola taccada	5 Gal., 36" ht, 30" spd full
	17	Yellow Allamanda	Allamanda cathartica	3 Gal, (3) 24" length branches min.

MISC. MATERIALS	QTY	MATERIAL/TREATMENT TYPE
	See master plant schedule	Hydroseed Buffel Grass
	See master plant schedule	Grouted Rubble Paving Type 2 (GRP2), see master plant schedule
	See master plant schedule	3" Layer wood chip mulch, see master plant schedule
	3,769 SF	2-1/2" Recycled crushed concrete or crushed basalt gravel, with continuous weed cloth underlayment

Sheet notes: see L-2.1 for Master Plant Schedule, General and Planting Notes.



OVERALL SITE LEGEND  
N.T.S.



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 EXPIRATION DATE OF THE LICENSE: 04/30/26

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

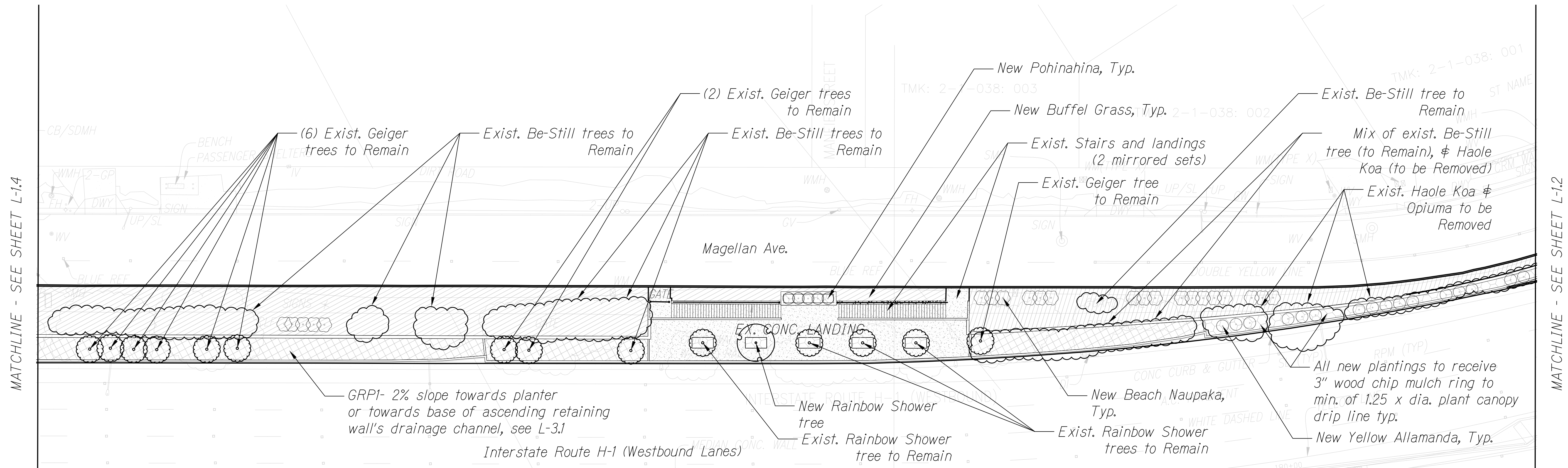
**LANDSCAPE PLAN 2**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: \_\_\_\_\_ Date: July, 2020

SHEET No. L-1.2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	350	381



1 LANDSCAPE PLAN  
SCALE: 1" = 20'-0"

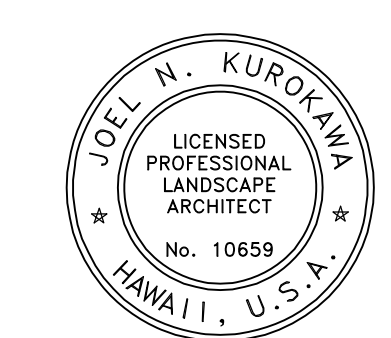
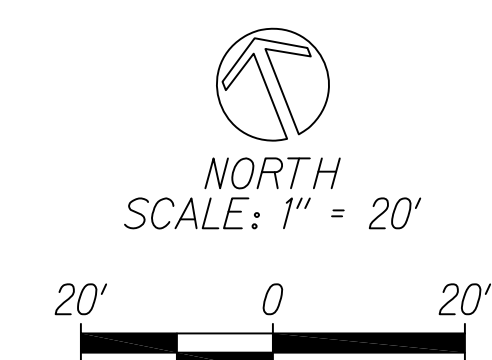
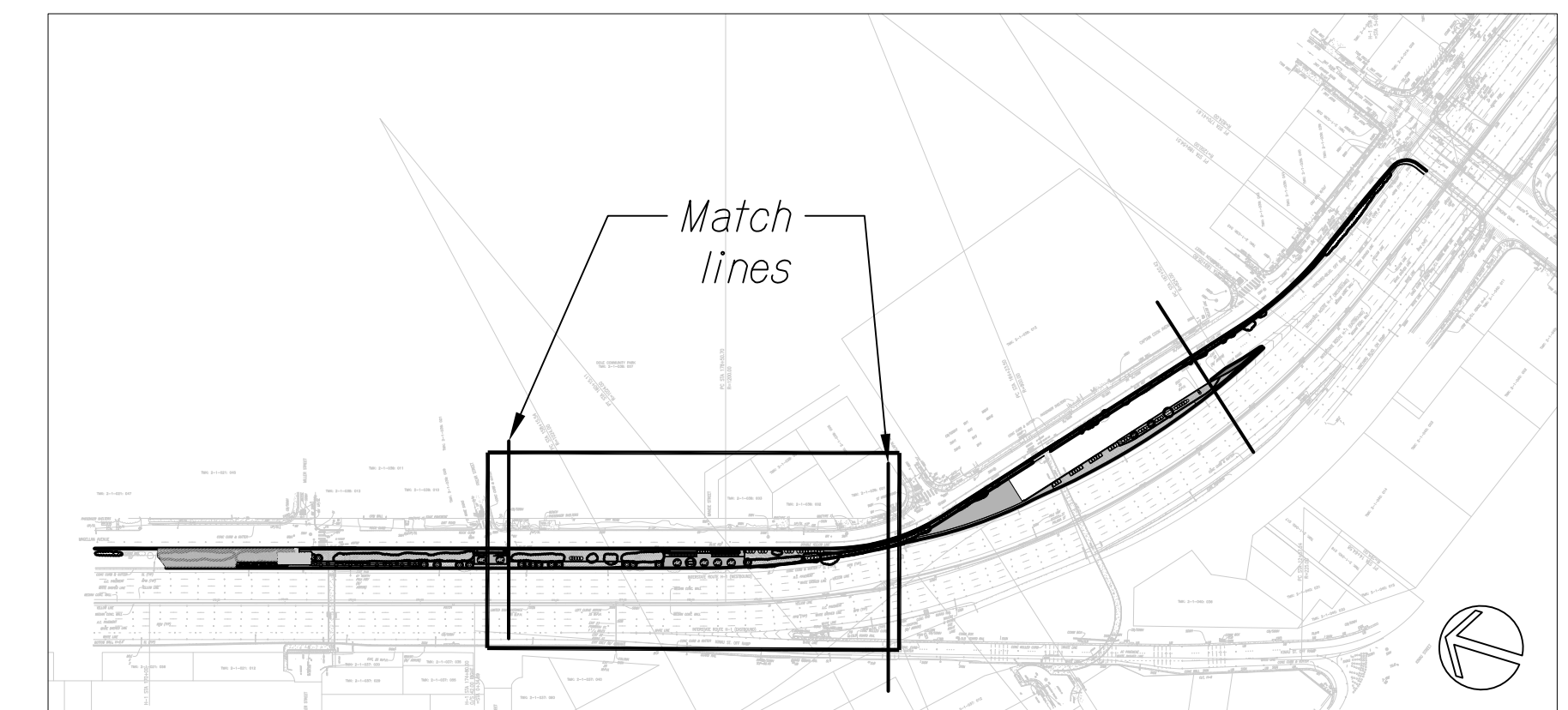
SHEET L-1.3 PLANT SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	1	Wilhelmina Tenney Rainbow Shower	Cassia x nealiae 'Wilhelmina Tenney'	15 Gal, 1" cal, 6' ht, Branching at 5' ht.

SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	22	Beach Naupaka	Scaevola taccada	5 Gal., 36" ht, 30" spd full
	16	Yellow allamanda	Allamanda cathartica	3 Gal, (3) 24" length branches min.
	5	Pohinahina	Vitex rotundifolia	1 Gal, 12" ht, 12" spd full

MISC. MATERIALS	QTY	MATERIAL/TREATMENT TYPE
	See master plant schedule	Hydroseed Buffel Grass
	See master plant schedule	Grouted Rubble Paving Type 1 (GRP1), see master plant schedule
	See master plant schedule	3" Layer wood chip mulch, see master plant schedule



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 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**LANDSCAPE PLAN 3**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M

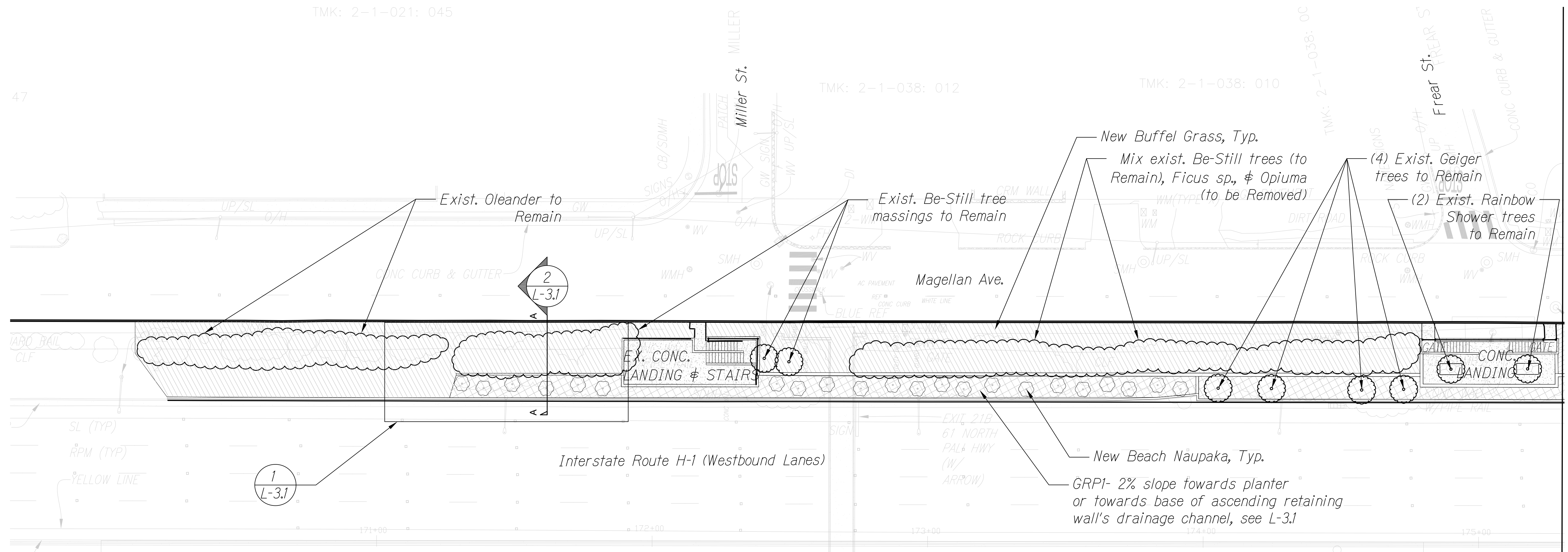
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SHEET No. L-1.3 OF 4 SHEETS

Sheet notes: see L-2.1 for Master Plant Schedule, General and Planting Notes.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI1JK-01-17M	2024	351	381

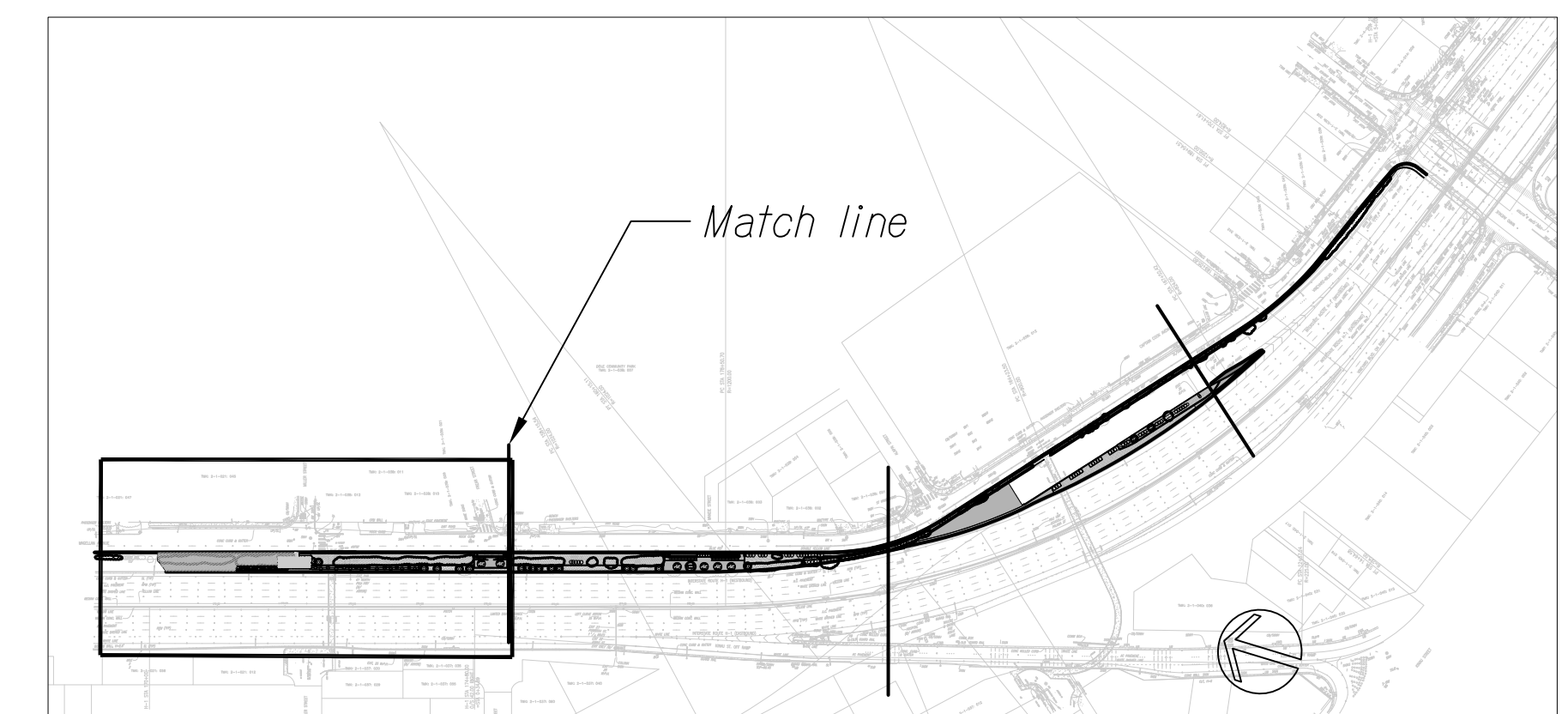


**1** LANDSCAPE PLAN  
SCALE: 1" = 20'-0"

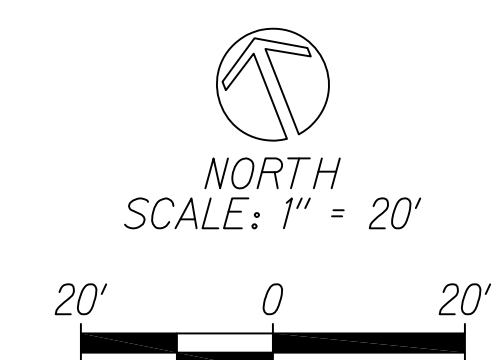
**SHEET L-1.4 PLANT SCHEDULE**

SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	22	Beach Naupaka	Scaevola taccada	5 Gal., 36" ht, 30" spd full

MISC. MATERIALS	QTY	MATERIAL/TREATMENT TYPE
	See master plant schedule	Hydroseed Buffel Grass
	See master plant schedule	GRP Type I (GRP1), see master plant schedule
	See master plant schedule	3" Layer wood chip mulch, see master plant schedule



OVERALL SITE LEGEND  
N.T.S.



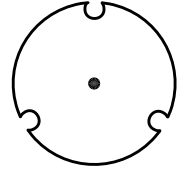
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
 Signature: *Joel N. Kurokawa*  
 Date: 04/30/26  
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**LANDSCAPE PLAN 4**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HI1JK-01-17M  
 Scale: \_\_\_\_\_ Date: July, 2020  
**SHEET No. L-1.4 OF 4 SHEETS**

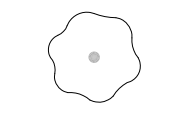
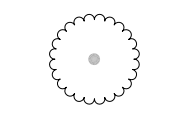
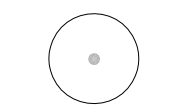
Sheet notes: see L-2.1 for Master Plant Schedule, General and Planting Notes.

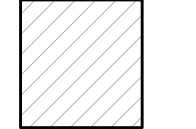
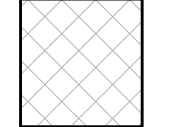
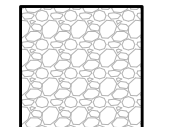
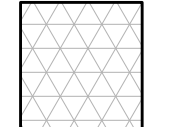
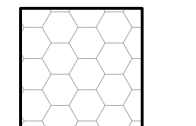
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	352	381

**SHEET L-1.4 PLANT SCHEDULE**

TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	2	Wilhelmina Tenney Rainbow Shower	Cassia x nealiae 'Wilhelmina Tenney'	15 gal, 1" cal, 6' ht, branching at 5' ht.

SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SIZE
	74	Beach Naupaka	Scaevola taccada	5 gal, 36" ht, 30" spd full
	5	Pohinahina	Vitex rotundifolia	1 gal, 12" ht, 12" spd full
	45	Yellow Allamanda	Allamanda cathartica	3 gal, (3) 24" length branches min.

MISC. MATERIALS	QTY	MATERIAL/TREATMENT TYPE
	21,480 SF	Hydroseed Buffel Grass
	4,060 SF	Grouted Rubble Paving Type 1 (GRP1), 4" layer concrete with 12"-18" basalt boulders inset, set on 4" layer of 3/4" dia. gravel with contin. weed fabric underlayment
	3,770 SF	4" layer of 2-1/2" dia. recycled crushed concrete or crushed basalt gravel, with continuous weed fabric underlayment
	1,580 SF	Grouted Rubble Paving Type 2 (GRP2), mortared, 4"-8" dia. basalt rocks with 1" max. mortared joints, set on 4" layer of 3/4" dia. gravel with contin. weed fabric underlayment, See 3/L-3.0 for detail
	2,500 SF	3" Layer wood chip mulch to extend to 1.25 X diameter of all newly planted plant canopy drip lines with the exception of new plantings on slopes greater than 3:1

**GENERAL NOTES:**

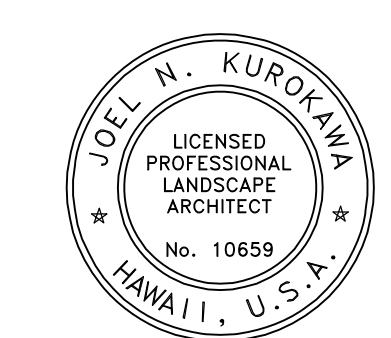
- Identified existing plant material provided on these plans is not to be utilized by contractor for bidding/construction purposes.
- Field verification of plant sizes, numbers, locations, and species is the sole responsibility of contractor.
- Plans are meant to assist in developing general planting requirements.
- Prior to commencement of work, contractor is to meet onsite with project landscape architect to make final determination of individual plant material to be preserved or removed as site conditions may differ.
- Existing vegetation to be removed includes all incidences of haole koa (leucaena leucocephala), ficus sp., and opiuma (pithecellobium dulce).
- For tree protection/preservation notes see L-2.0.
- For planting schedule, notes, and details see L-2.1 & L-2.1.
- All landscape areas to receive new planting, including hydroseeded slopes. new trees, shrubs, and ground covers shall be temporarily irrigated during the 9 month (270 days) plant establishment period.
- The contractor shall gradually wean the new plantings from watering such that the plants self sustain by end of the contract period.
- Contractor shall provide a temporary irrigation schedule that includes a gradual reduction of water for review and approval by the engineer and project landscape architect.
- See sheet L-2.0 for additional planting notes.

**PLANTING NOTES:**

- Refer to Sections 617 Planting Soil, 619 Planting and Sections 617, & 619 Special Provisions prior to the start of work. contractor shall be responsible for all; materials, scheduling, products, warranties and methods for execution of work which may not be indicated on the drawings.
- Scarify to 2" depth existing sloped grass areas.
- Provide a 2" layer of organic soil conditioner over all planting areas (see specifications). rake to spread evenly.
- Hydroseed existing sloped grassed areas.
- Backfill planting media mix shall consist of three (3) parts of amended imported planting soil to one (1) part organic soil conditioner (see specifications). Add one (1) pound of 10-30-10 fertilizer to one (1) cubic yard of backfill mix. Mix thoroughly on project site prior to any planting operations.
- Planting tablets for trees and shrubs shall be as follows:
 

A) Field Specimen	12 Tablets
B) 25 Gallon	8 Tablets
C) 15 Gallon	5 Tablets
D) 5 Gallon	3 Tablets
E) 3 Gallon	2 Tablets
F) 1 Gallon	1 Tablet

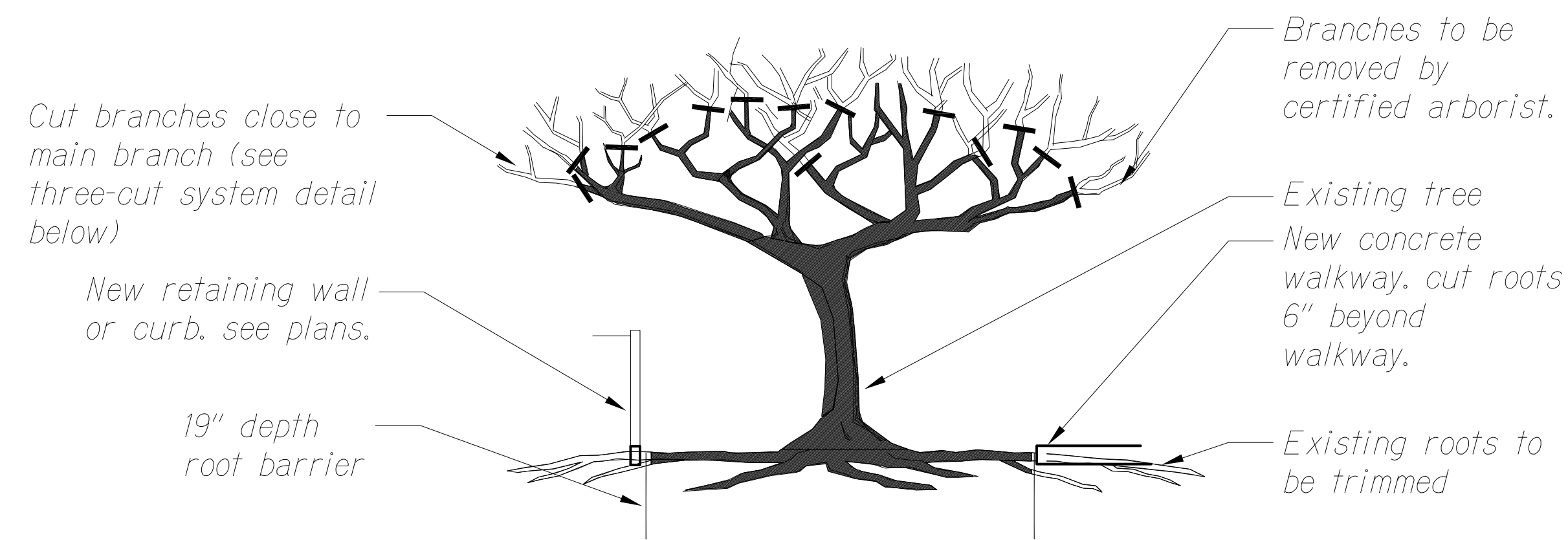
Use slow release fertilizer tablets 20-10-5, 21 gram size.
- Prior to installing any new planting, existing trees and shrubs to be pruned to remove all deadwood and reduce canopy density by 20 percent while retaining natural form.
- Planting Period. Planting period extends 90 days from date Engineer accepts site to start planting period. See Specification Section Planting 619.03 (N) Planting Period for more details.
- Plant Establishment Period. Plant establishment period shall extend nine months from accepted completion date of planting period, unless extended by Engineer because of Contractor's failure to perform required work. During plant establishment period, water, fertilize, cultivate, weed, prune, and apply pesticide when required. Replace plants that fail to develop healthy growth, become injured, or die. Provide replacements within two weeks of receiving notification from Engineer that plants are unacceptable. See Specification Section Planting 619.03 (T) Plant Establishment Period for more details.
- Prior to completion of maintenance period, contractor shall perform one final branch pruning/trimming. Branch pruning to be supervised by an independent qualified arborist.



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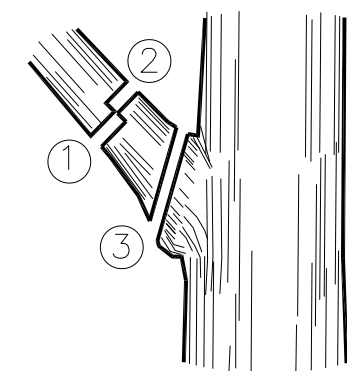
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**LANDSCAPE SCHEDULE & NOTES**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M  
 Scale: \_\_\_\_\_ Date: July, 2020

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	353	381



**NOTES:**

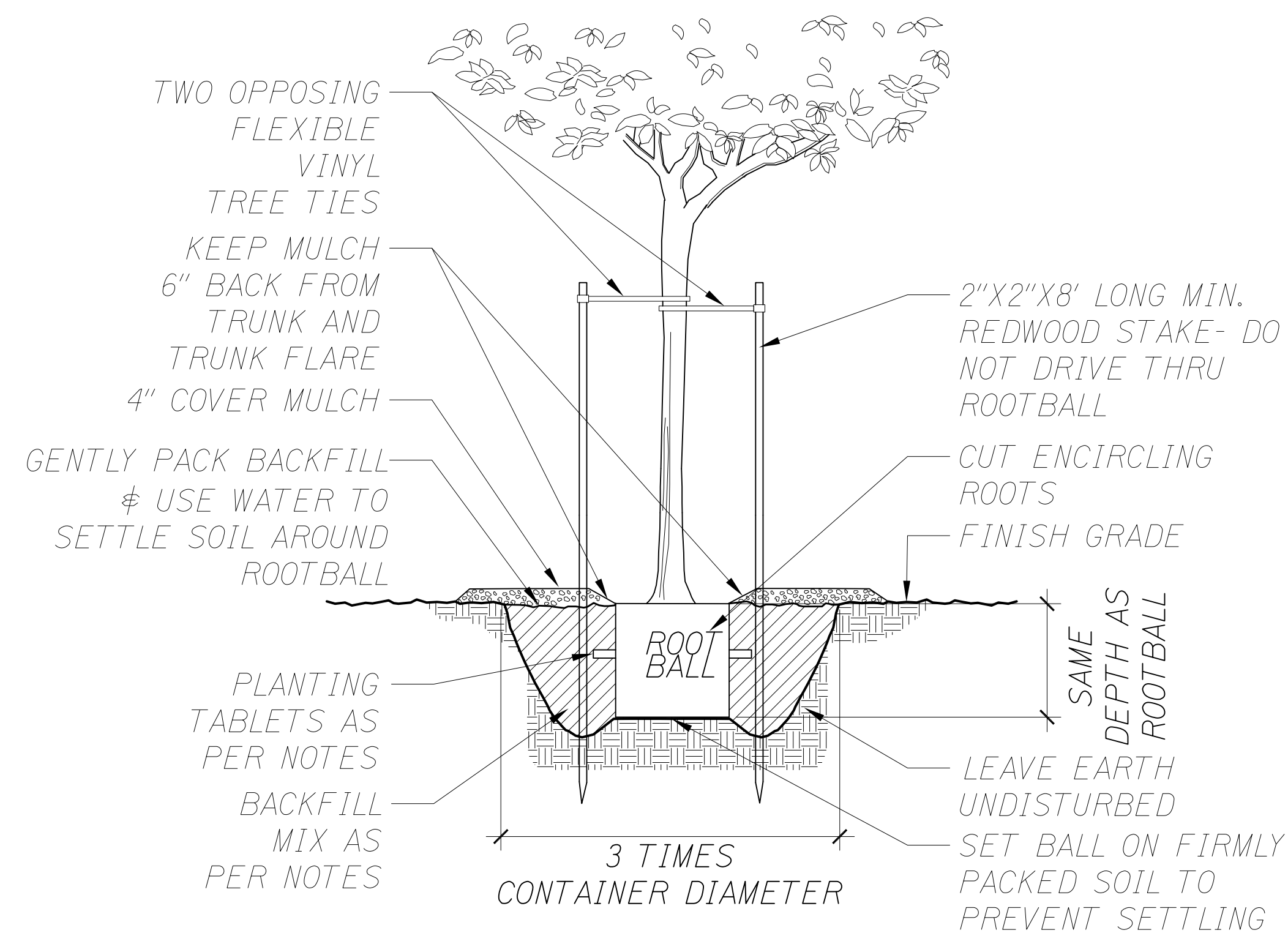
- The existing tree shall be selectively pruned and thinned out by or under the supervision of a qualified certified arborist prior to the trimming of the tree roots. Pruning shall be done to retain the tree's natural shape and appearance. Tree topping is not acceptable. Prune lower branches to provide 15' height clearance from existing grade.
- Existing surface roots shall be cut 6" beyond the limits of any new curb, walkway, retaining wall and removed to a depth of 12". Install 19" depth root barrier between cut roots and new curb, walkway or retaining wall. all root cuts shall be made cleanly.



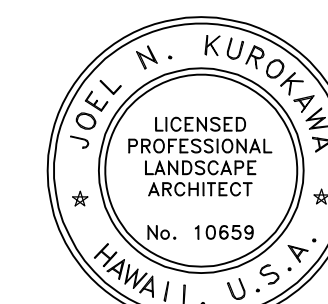
**THREE-CUT SYSTEM FOR PRUNING A LARGE BRANCH**

- First undercut is made
- Second cut is made
- The remaining stub is removed

**1 BRANCH AND ROOT PRUNING OF EXISTING TREE DETAIL**  
NOT TO SCALE



**2 STREET TREE PLANTING IN MEDIAN DETAIL**  
NOT TO SCALE



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STATE OF HAWAII  
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HIGHWAYS DIVISION

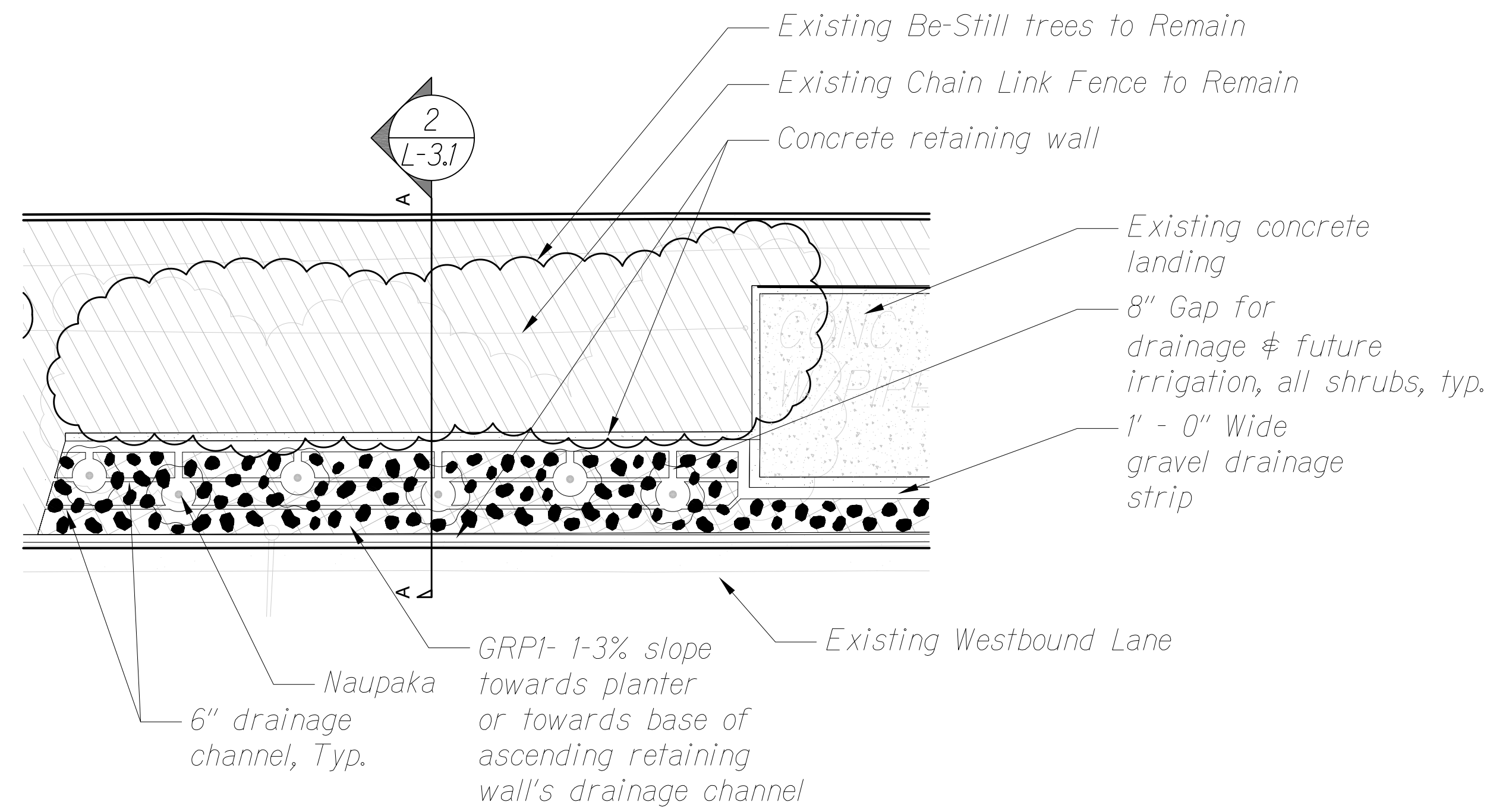
**LANDSCAPE DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: \_\_\_\_\_ Date: July, 2020

SHEET No. L-2.2 OF 2 SHEETS

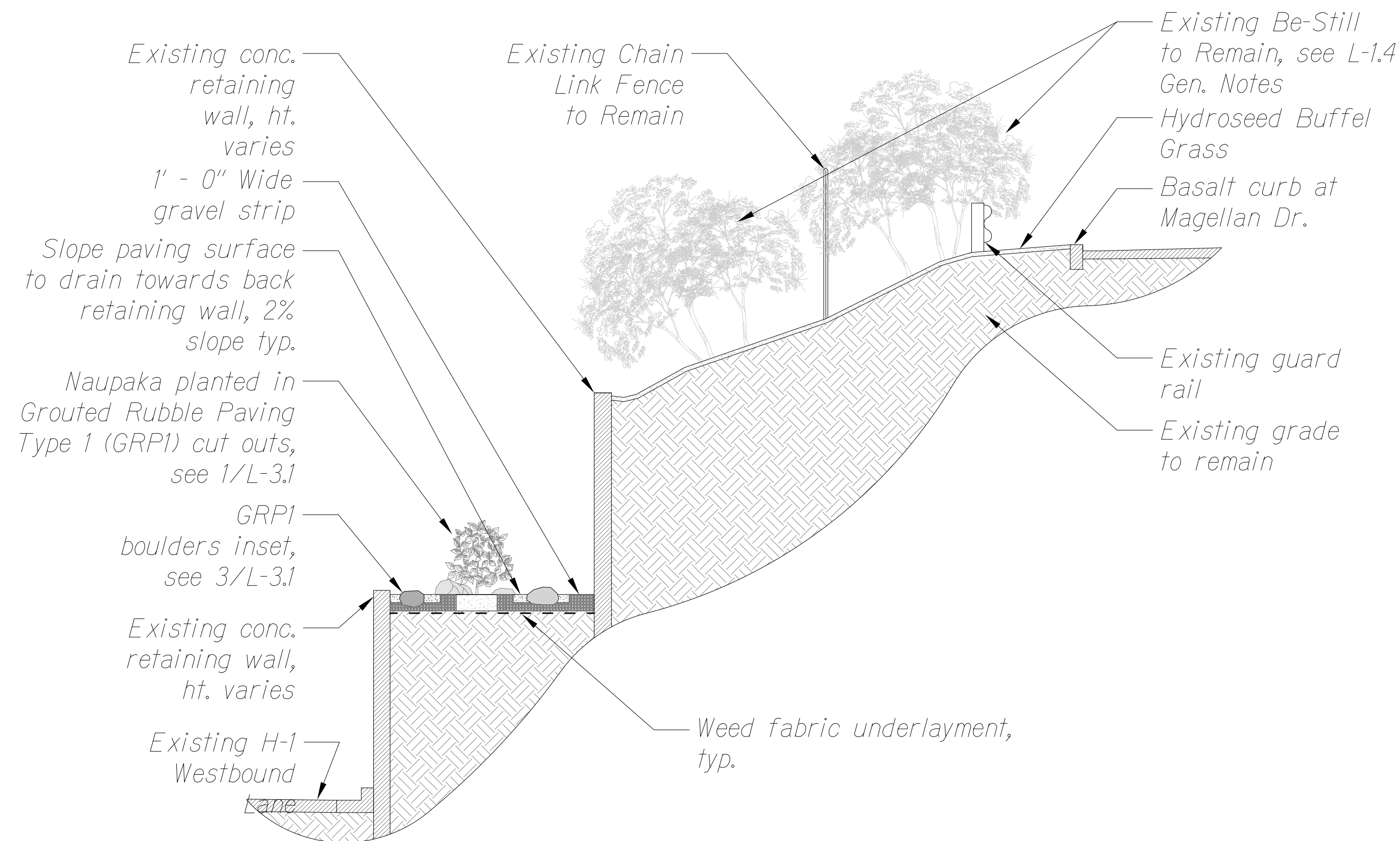
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	354	381



**NOTES:**

1. See sheet L-1.4 for section reference location.

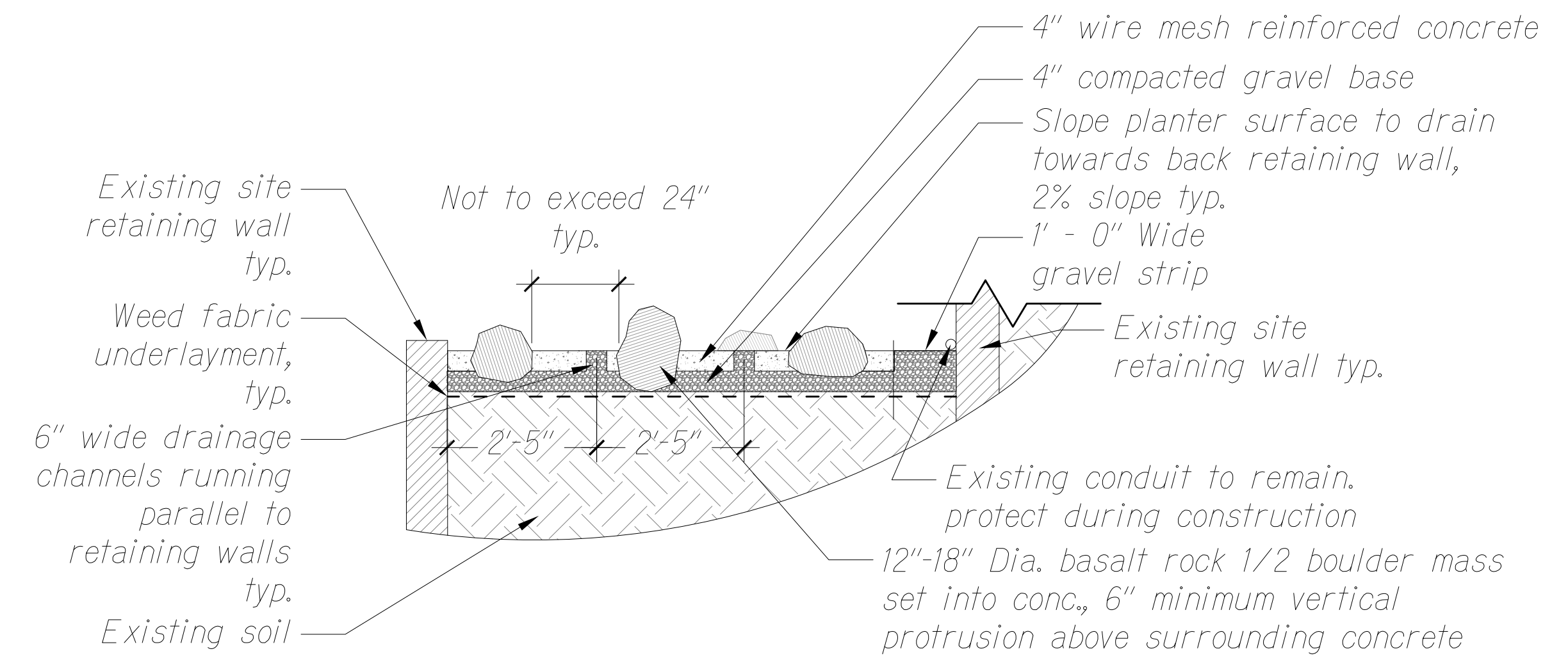
1 EXPANDED PLAN VIEW OF EXAMPLE GROUTED RUBBLE PAVING TYPE 1 (GRP1)  
SCALE: 1/4" = 1'-0"



**NOTES:**

1. See sheet L-1.4 for section reference location.

2 SECTION A-A  
SCALE: 1/4" = 1'-0"

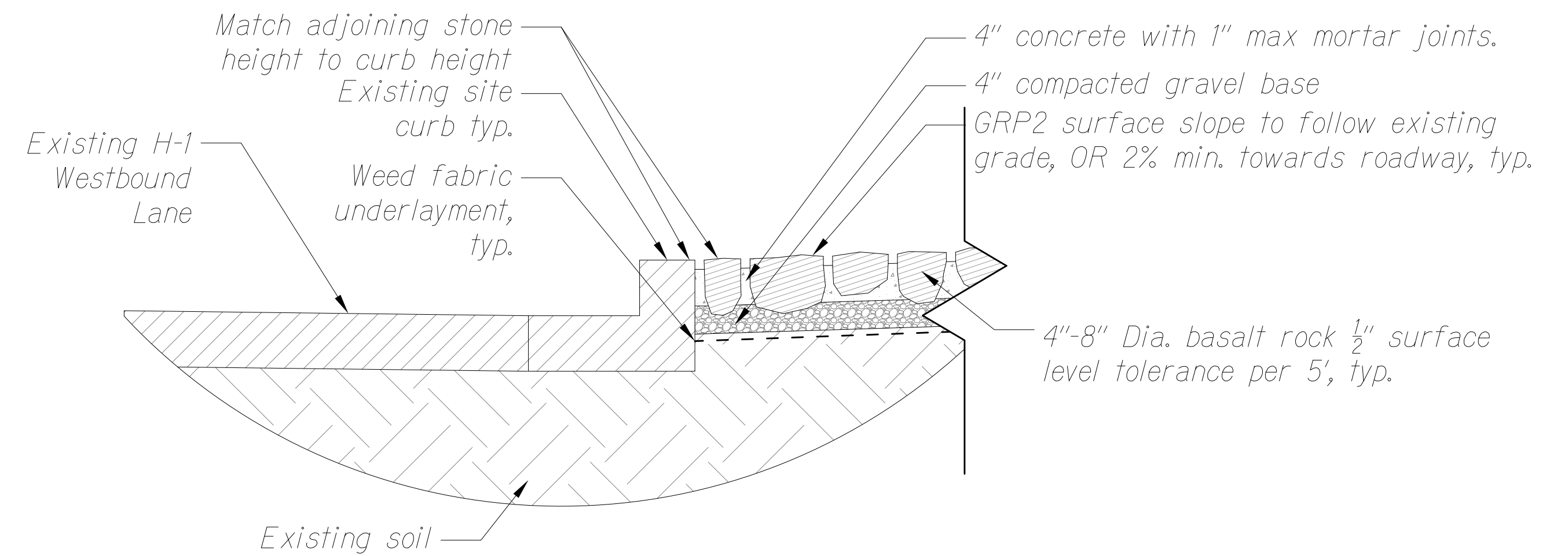


**NOTES:**

1. In GRP1 areas wider than depicted above, 6" wide, gravel filled, drainage channels are to offset every 2'-6" starting from inside edge of descending retaining wall to center of each drainage channel.

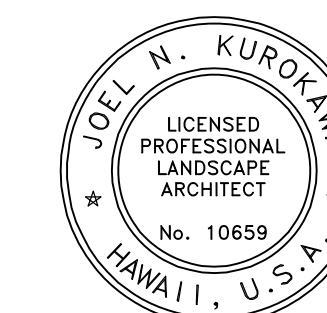
GROUTED RUBBLE PAVING TYPE 1 (GRP1) WITH/WITHOUT PLANTING

3 SECTION DETAIL  
SCALE: 1/2" = 1'-0"



GROUTED RUBBLE PAVING TYPE 2 (GRP2) TO CURB TREATMENT

4 SECTION DETAIL  
SCALE: 1" = 1'-0"



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HIGHWAYS DIVISION

LANDSCAPE SECTIONS

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: Date: July, 2020

SHEET No. L-3.1 OF 1 SHEETS

INDEX OF STRUCTURAL DRAWINGS	
Sheet No.	Description
SG-1	GENERAL NOTES, INDEX OF STRUCTURAL DRAWINGS AND ESTIMATED QUANTITIES
SG-2 - SG-6	ABBREVIATIONS, REPAIR DETAILS, DAMAGE SCHEDULE AND KEYPLAN
SM-1	MILLER STREET PEDESTRIAN OVERCROSSING - PLAN
SA-1 - SA-3	ALAPAI STREET PEDESTRIAN OVERCROSSING DEMOLITION PLAN, RENOVATION PLAN AND DETAILS
SW-1	WARD AVENUE OVERPASS - PLAN AND RAILING ELEVATIONS
SP-1 - SP-3	PIIKOI VIADUCT PLAN - DECK REPAIR, RAILING REPAIR AND DECK DRAIN DETAILS
SKE-1	KEAAUMOKU STREET OVERPASS - PLAN
SPU-1 - SPU-5	PUNAHOU STREET OVERPASS RAILING DEMOLITION PLAN, RENOVATION PLAN AND SECTIONS AND DETAILS
SMC-1	McCULLY STREET OVERPASS - PLAN
SWI-1 - SWI-6	WILDER AVENUE PEDESTRIAN OVERCROSSING DEMOLITION PLAN, RENOVATION PLAN AND DETAILS

ESTIMATED QUANTITIES				
Bridge Name	Item No.	Item	QTY	Unit
Alapai Overcrossing	202.0100	Removal of Concrete Curb	790	LF
Punahou Overpass	202.0200	Removal of Bride Railing - Concrete	220	LF
Wilder Overcrossing	202.0300	Removal of Bridge Railing - Metal	570	LF
Wilder Overcrossing	507.0100	Metal Bride Railing	570	LF
Punahou Overpass	507.0200	Concrete Bride Railing	220	LF
Ward Overpass	512.0100	Concrete Rehabilitation of Cracks	49	LF
Keaauomoku Overpass	512.0200	Concrete Rehabilitation of Spalls	20	SF
McCully Overpass	512.0200	Concrete Rehabilitation of Spalls	69.5	SF
Miller Overcrossing	512.0200	Concrete Rehabilitation of Spalls	27	SF
Piikoi Viaduct	512.0200	Concrete Rehabilitation of Spalls	79.75	SF
Ward Overpass	512.0200	Concrete Rehabilitation of Spalls	3.25	SF
Replace Reinforcing Steel	602.0100	Replace Reinforcing Steel	F.A.	F.A.
Piikoi Viaduct	604.0100	Cast Iron Grate 8 1/4" x 1'-11 3/4" x 1" (Viaduct Deck Scuppers)	5	EA
Alapai Overcrossing	638.0100	Curb, Type 2D	790	LF
Piikoi Viaduct	676.0100	Repair for Concrete Deck	770	SF

**GENERAL STRUCTURAL NOTES:**

**DESIGN SPECIFICATIONS:**

AASHTO 2017 LRFD Bridge Design Specifications with Subsequent Interim Specifications and as Modified by State of Hawaii, Highways Division, "Design Criteria for Bridges and Structures", dated August 14, 2014

**GENERAL SPECIFICATIONS:**

The State of Hawaii 2005 Standard Specifications for Road and Bridge Construction, and Special Provisions Prepared for This Project.

**DESIGN LIVE LOAD:**

Pedestrian live load - 75 psf

**ADDITIONAL LOADS:**

Bridge railing (pedestrian) -50 plf transverse and vertical  
-200 lbs concentrated load  
Bridge railing (overpasses) - LRFD TL-2.

**MATERIALS:**

- Reinforced concrete: f'c=4000 psi, unless noted otherwise.
- Reinforcing steel: ASTM A615, Grade 60 unless noted otherwise.
- Reinforcing steel to be welded: ASTM A706, Grade 60 unless noted otherwise.
- Structural steel: ASTM A36, hot dip galvanized, unless noted otherwise.
- Stainless steel: Type 316, unless noted otherwise.
- All welding shall be in accordance with the current edition of reinforcing steel welding code AWS D 1.4.
- Provide shrinkage reducing admixture and migrating corrosion inhibiting admixture to concrete for bridge decks, and bridge railings. see special provision for requirements.
- Concrete repair material for viaduct deck damage repair: f'c=6000 psi, see Section 676 of the special provisions.
- Concrete repair material for the rehabilitation of damaged or deteriorated structural concrete for the surfaces of bridge railings, sidewalks, and surfaces indicated: f'c=6,000 psi, see Section 512 of the special provisions.

**GENERAL:**

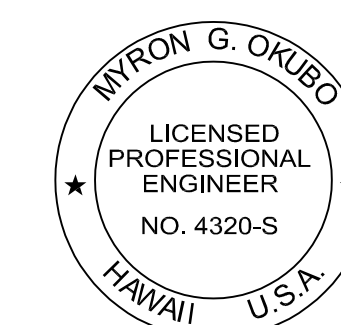
- All items noted incidental will not be paid for separately.
- Standard detail drawings refer to all structures in general, except for modifications as may be required for special conditions. For such modifications, refer to the corresponding detailed drawings.
- Edge of existing concrete to be remained shall be square cut by sawcutting to a minimum depth of 1/2" or up to the depth of existing reinforcement.

**CONSTRUCTION NOTES:**

- Materials and workmanship shall conform to the State of Hawaii 2005 Standard Specification for Road and Bridge Construction, and Special Provisions Prepared for This Project, Project Drawings, and Project Specific Permit Requirements. Per Hawaii Standard Specification Subsection 106.11, the Contractor shall submit a certification of material origin to meet the requirement for the use of American-Made materials.
- In general, top of concrete deck slab shall be constructed to follow the roadway vertical and horizontal Curves.
- For the installation of anchor bolts, the Contractor shall provide rigid templates to maintain the proper locations and shall protect such anchor bolts at all times during the period of construction. Methods shall be approved by the Engineer.
- Except as noted otherwise, all vertical dimensions are measured plumb.
- Information for existing bridge has been prepared based on record drawings. The Contractor shall verify all site conditions and not rely upon these plans for utilities, stream location, or other existing features, etc. Conditions may differ from those shown.
- Record drawings are available for review at the State of Hawaii Department of Transportation, Highways Division.
- The Contractor shall verify the location of all utility lines and notify the respective owners before commencing the work. Any damage to utility lines caused by the Contractor shall be replaced at his expense and at no cost to the State.
- For concrete finish, see Standard Specifications.
- Unless noted otherwise, all exposed concrete edges shall be chamfered 3/4"x3/4".
- Contractor to take adequate measures to protect the public and structures during construction. Such measures shall include but not be limited to falsework, formwork, bracing, loads for construction equipment, wind forces, stream flow, seismic forces, and others. No debris shall be allowed to fall onto roadway due to construction operations. Submit debris containment plan to the Engineer for review and approval prior to starting the work.
- Contractor to be solely responsible for acquiring required construction related permits from the various government agencies required to complete the work.
- Contractor shall take precautions to prevent damage to existing reinforcing steel that is to be incorporated into the new work.
- All expansion and premolded joint filler shall be incidental to concrete and will not be paid for separately.
- H-1 lanes/on-ramps/off-ramps lane closure scenario:
  - Partial closure scenario: The Contractor's work zone will be located on the shoulder side of the road. Work hours will be from 8:30pm until 4:30am, Sunday through Thursday, except for State Holiday. Two through lanes shall be maintained during construction. The Contractor will be permitted to close lanes in either direction. During the rest of the day, all lanes will be open for use.
  - Full closure scenario: During the construction work on H-1 in both the eastbound (Koko Head bound) and westbound (Ewa bound) directions, all travel lanes will be closed in one direction for construction work overnight. There should be no partial or full closures in the opposing direction except for emergency situations. The recommended lane closure hours are permitted from 8:30pm to 4:30am, Sunday through Thursday, except for State Holidays. All lanes are to be open to traffic by 4:30am. No lane closures shall take place between 4:30am and 8:30pm.
- Cross streets/frontage streets lane closure scenario:
 

During the construction work on cross streets and frontage roads, only single lane closures, are permitted unless otherwise mentioned. Lane closures are allowed between 9:00am and 3:00pm, Monday through Friday, except on holidays. Work that requires full road closures shall be scheduled to occur on Sundays between 8:00am and 12:00am.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	355	381



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EXPIRATION DATE OF THE LICENSE: 04/30/26

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES, INDEX OF STRUCTURAL DRAWINGS AND ESTIMATED QUANTITIES**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SG-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	356	381

**GENERAL STRUCTURAL NOTES (Cont.):**

**REINFORCING STEEL:**

- Reinforcing splices shall be made only where indicated on the drawings.
- All reinforcing bars, anchor bolts, dowels and other embedded items are to be securely tied in place before concrete pour.
- All reinforcing bar bends shall be made cold.
- Reinforcement shall be detailed in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017, including subsequent interim revisions, unless otherwise noted.
- Welding of reinforcing steel is Not permitted, unless otherwise shown on the drawings. Welding of reinforcing steel shall conform to (the latest edition of AWS D1.4 "AWS Structural Welding Code-Reinforcing Steel" of the American Welding Society. Deformed reinforcing bars to be welded shall conform to ASTM. A706, Grade 60.
- Unless otherwise noted, the covering measured from the surface of the concrete to the face of any reinforcing bars shall be as follows:
  - (a) Deck top bars . . . . . 2 1/2" clear
  - (b) Deck bottom bars. . . . . 1 1/2" clear
  - (c) Railing and parapets. . . . . 2" clear
  - (d) Formed surfaces exposed to earth and weather. . . . . 2" clear
  - (e) All others. . . . . 2" clear
- Minimum clear spacing between parallel bars shall be 1 1/2 times the diameter of the bar, but in no case shall the clear distance between parallel bars be less than 1 1/2 times the maximum size of the coarse aggregate, or 1 1/2 inches.
- All dimensions relating to reinforcing bars (e.g. spacing of bars, etc.) are to center of bars, unless otherwise noted.
- Reinforcing bars shall be securely tied at all intersections and lap spliced except where the spacing of the intersections is less than 12 inches in each direction, in which case alternate intersections shall be tied.

**STRUCTURAL STEEL AND MISCELLANEOUS METAL:**

- All steel tubes shall conform to ASTM A500, Grade B. All structural pipes shall conform to ASTM A53, Grade B. Plates and rods shall conform to ASTM A36.
- All structural steel and miscellaneous metal and rods shall be hot dip galvanized after fabrication. All holes (other than stainless steel) shall be punched before galvanizing.
- All anchor bolts and threaded rods and other hardware including nuts and washers which connect steel to concrete shall conform to ASTM F1554, Grade 55, hot dipped galvanized.
- Thru bolts for guardrail connections shall conform to ASTM A325, galvanized unless otherwise noted.
- All welds shall be in conformance with the structural welding code AWS D1.1-2000 of the American Welding Society. Electrodes for A36, A500 and A992 shall be E70.
- All stainless steel plates, bars, rods, anchor bolts and shapes shall be Type 316. Welding of stainless steel shall be in accordance with the latest edition of AWS D1.6 "Structural Welding Code - Stainless Steel".
- Stainless steel threaded rods and nuts shall conform to ASTM A276, Type 316L.

**ABBREVIATIONS:**

<b>A</b>	Abut.	Abutment	<b>R</b>	R	Radius
	Ave.	Avenue		Reinf.	Reinforced, Reinforcement
	Az.	Azimuth		RENO.	Renovation
<b>B</b>	Bot.	Bottom	<b>S</b>	S.	South
	B.L.	Base Line		SF	Square Feet
<b>C</b>	C.L.	Centerline		Sim.	Similar
	Clr.	Clear		Sp.	Span
	Conc.	Concrete		SR	Spall Repair
	Cont.	Continue		Sta.	Station
	CR	Crack Repair		Std.	Standard
				St.	Street
<b>D</b>	Det.	Detail	<b>T</b>	T.F.	Top Face
	DEMO.	Demolition		Thk.	Thick
	Dia.	Diameter		Typ.	Typical
<b>E</b>	Ea.	Each	<b>U</b>	U.O.N.	Unless Otherwise Noted
	E.F.	Each Face	<b>V</b>	Vert.	Vertical
	Exist.	Existing			
	(E)	Existing			
<b>O</b>	O.C.	On Center			
<b>F</b>	F.A.	Force Account			
	FT.	Feet			
<b>G</b>	Galv.	Galvanized			
<b>H</b>	Horiz.	Horizontal			
<b>I</b>	I.D.	Inside Face			
	I.T.F.	Inside Top Face			
<b>L</b>	LF	Linear Feet			
<b>M</b>	Max.	Maximum			
	Min.	Minimum			
	MP	Milepost			



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*Myron Okubo* 04/30/26  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES AND  
ABBREVIATIONS**

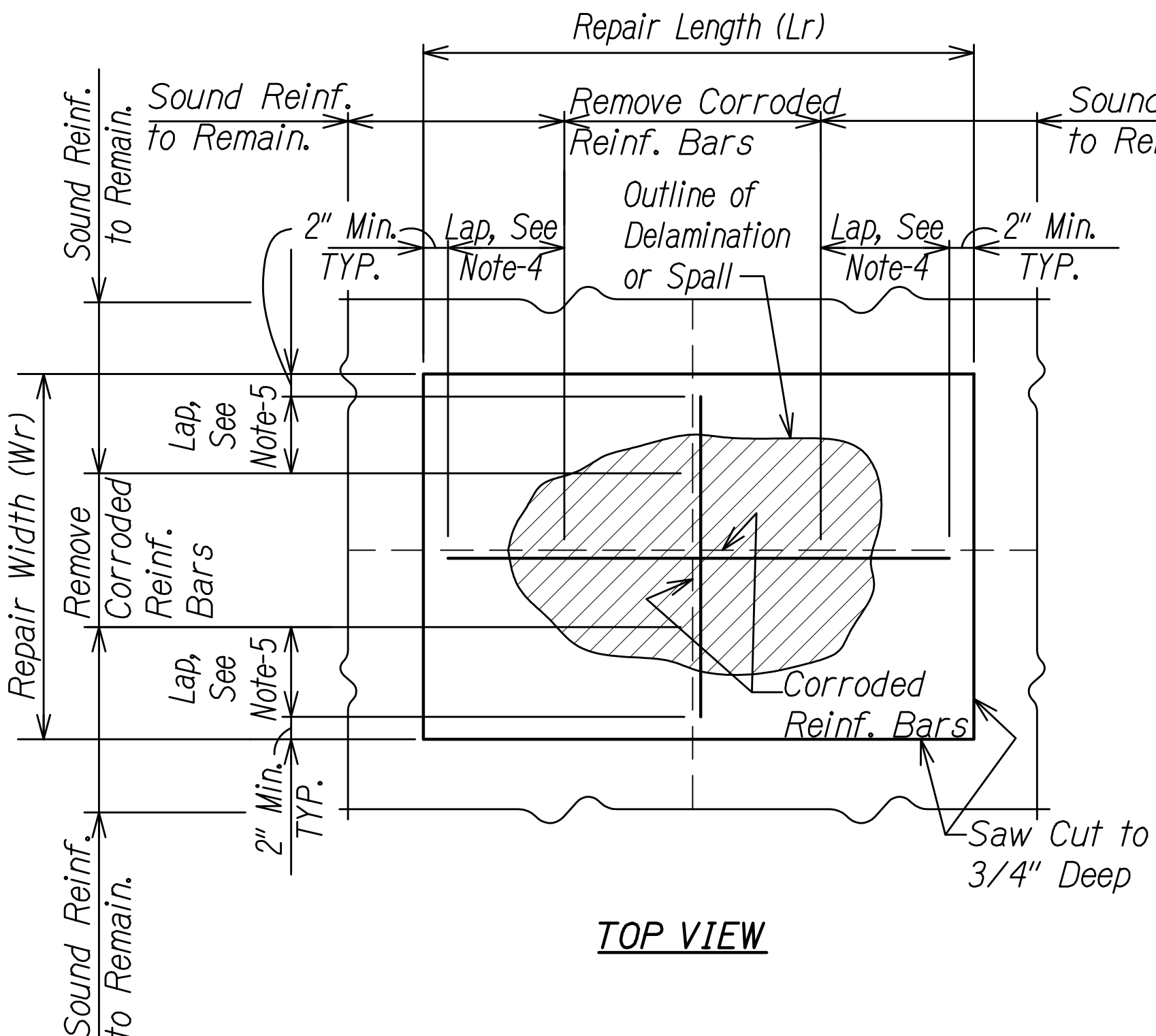
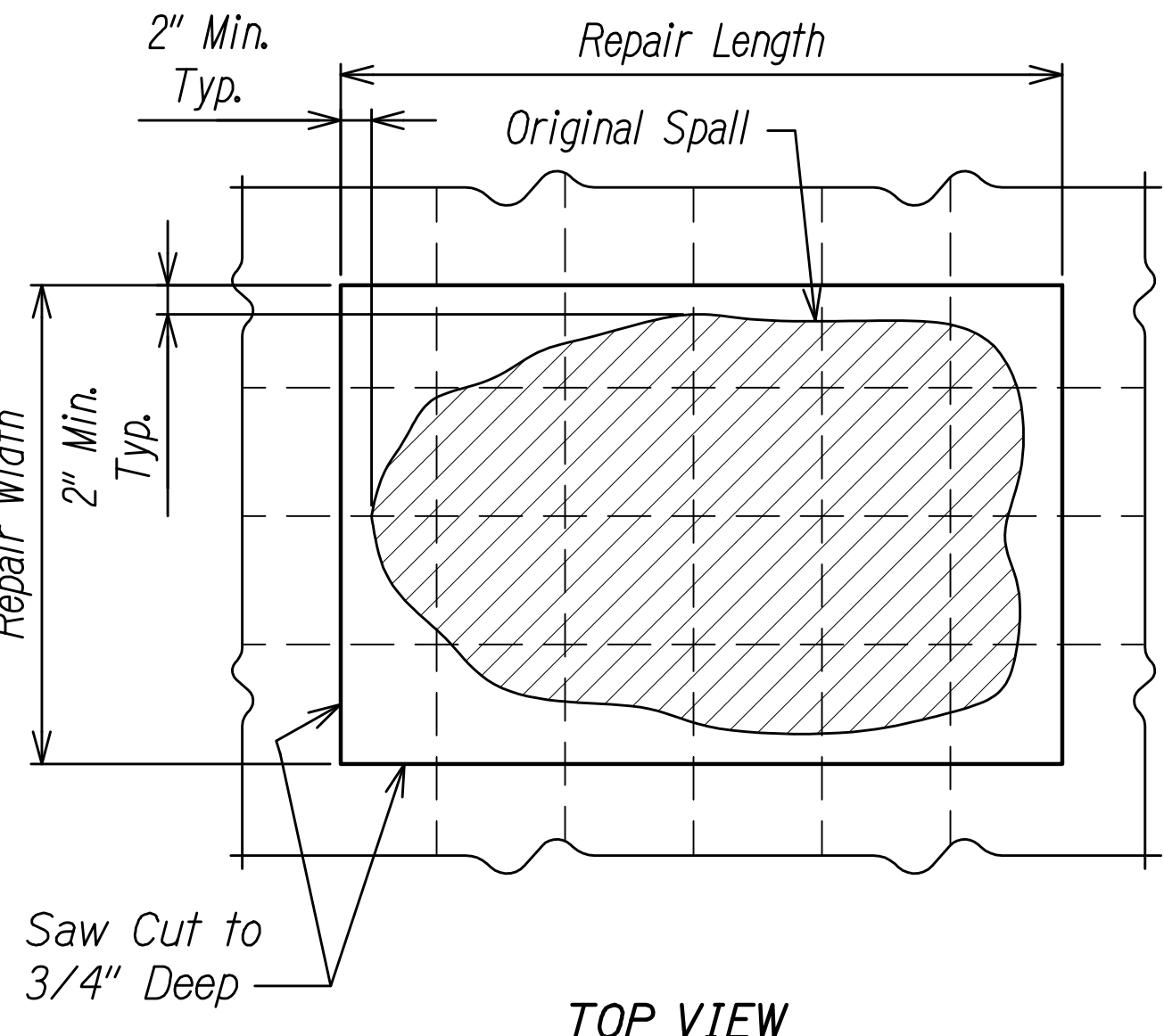
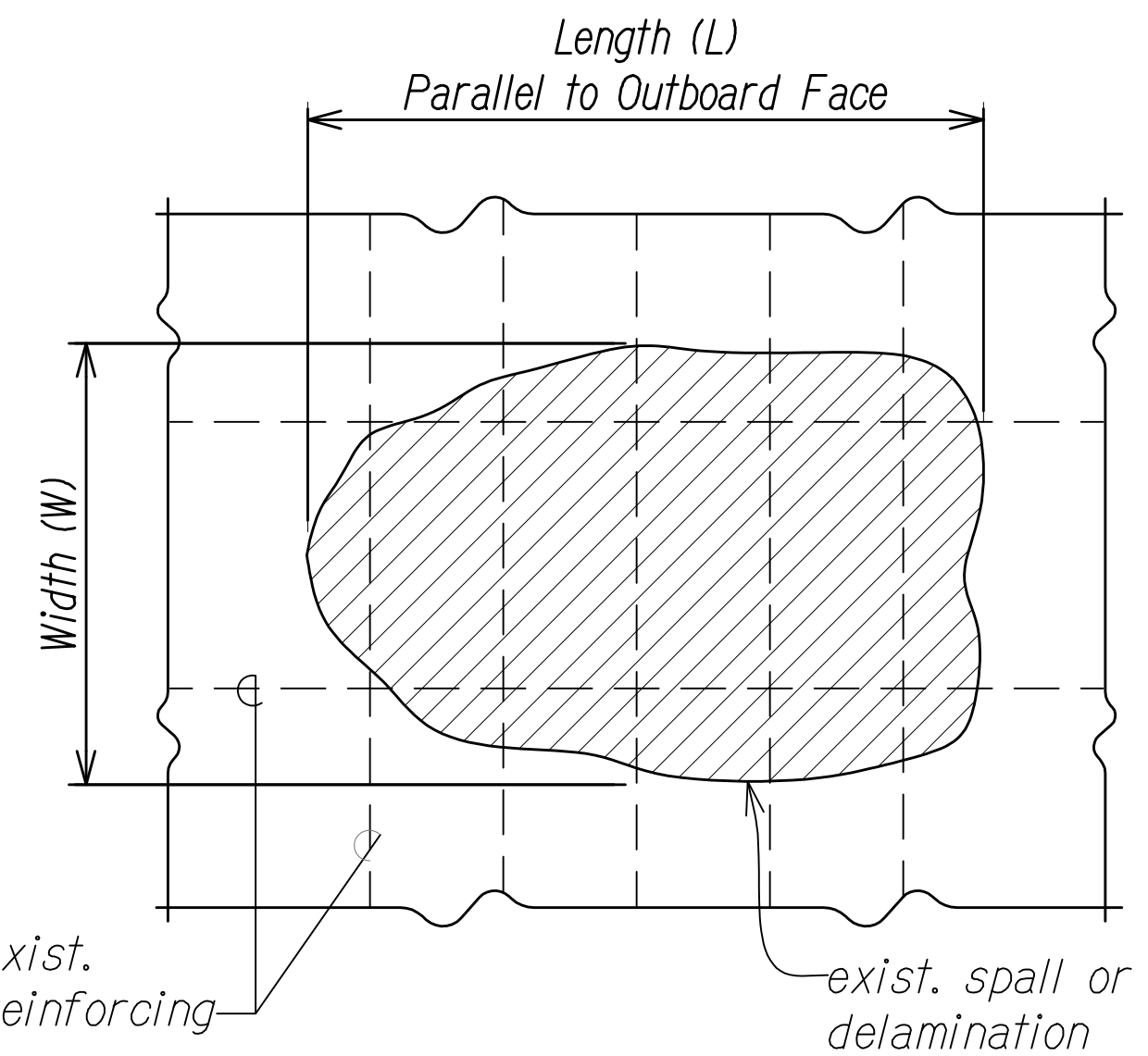
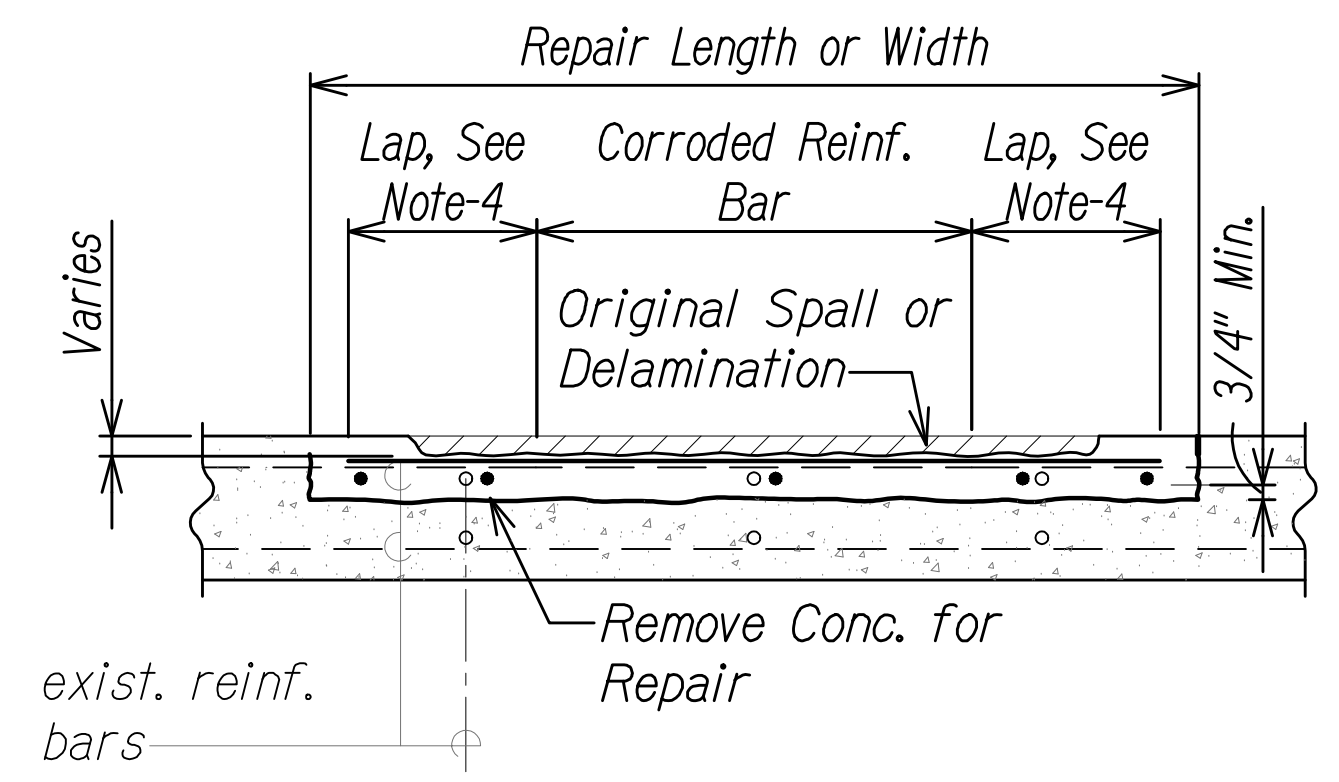
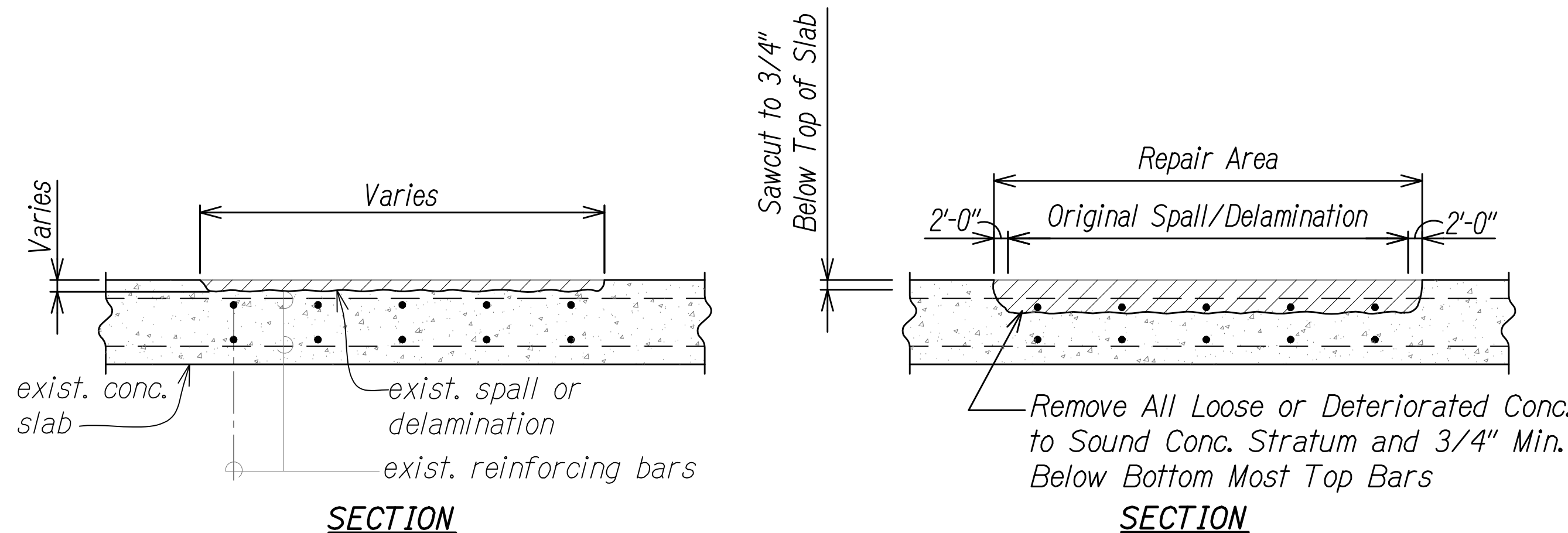
**INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M**

Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SG-2 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	357	381

**GENERAL NOTES:**

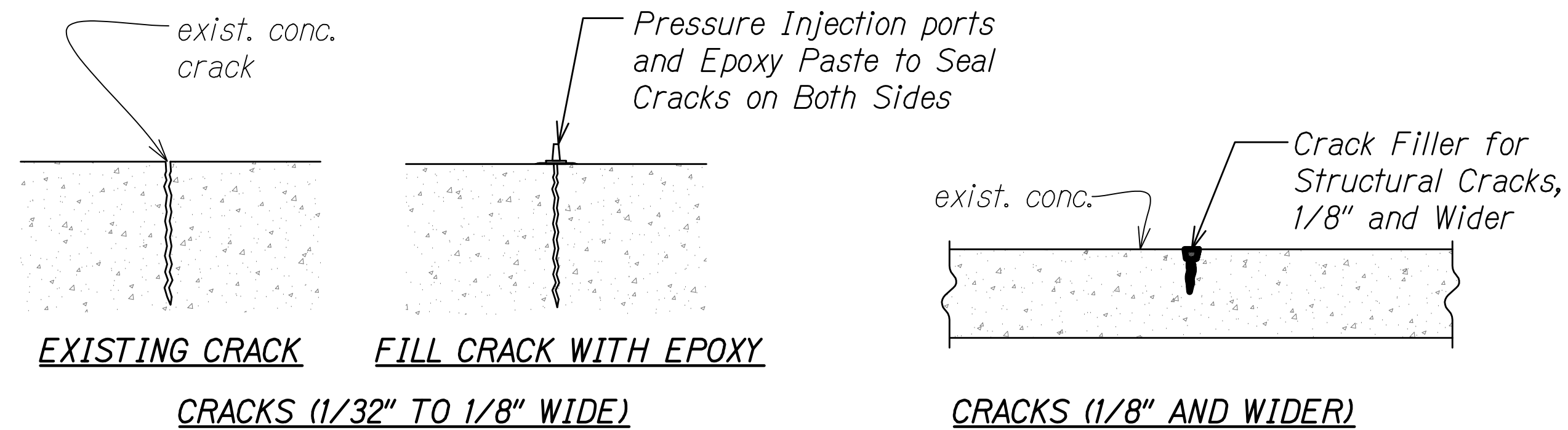
- Both spalls and delaminations are called out as "Spalls" on the plans, no distinction is made since repair is the same. Size shown on plan=WxL.
- Notify the Engineer when reinforcing steel requires replacement.
- Replace corroded reinforcing steel per sheet SG-4. Corroded reinforcing bars are those after cleaning, have the bar diameter reduced to less than the allowable bar size chart shown on sheet SG-4.
- Remove and replace corroded reinforcing bar with new reinforcing bar matching the original bar size with contact lap splice length equal to 48 bar diameters for main reinforcing bars or 24 bar diameters for temperature bar, or with alternate lap weld splice length per detail B on sheet SG-4.
- The repair length or width should equal to twice the splice length plus 2" minimum on each side of the corroded length of reinforcing bar.
- The Contractor shall confirm the damaged areas of the bridge decks shown on the plans by visual examination and sounding methods in accordance with ASTM D4580. The roadway plans shall be used as a guide to illustrate the general location of the area to be repaired. Mark the limits of decking to be repaired for approval by the Engineer. The Engineer may direct the Contractor to do additional repairs outside of the marked priority areas.
- Removal of damaged concrete and preparation of concrete to receive repair materials is incidental to the various repairs.
- Repair material and procedures shall be accepted by the Engineer before use.
- The Contractor shall protect the public and environment from dust pollution and other damages resulting from the blasting, chipping and drilling operation. The Contractor shall be aware of and follow all State, Federal and county environmental regulations and provide containment to prevent abrasives, dust and debris from dispersing into surrounding areas and into the stream or stream bank. The Contractor shall submit the method of containing and controlling pollution for acceptance to the Engineer.



**SPALL REPAIR DETAILS**

**REPAIR NOTES:**

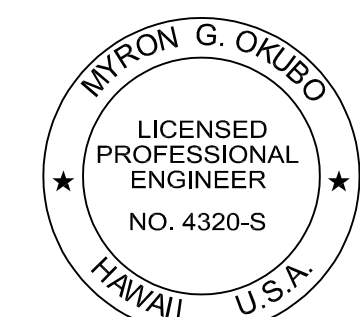
- The Contractor shall be aware of extensive repair requirements in Section 676 Concrete Repair of the Special Provisions for Viaduct concrete deck repair.
- The Contractor shall be aware of extensive repair requirements in Section 512 Concrete Rehabilitation of the Special Provisions for the rehabilitation of damaged or deteriorated structural concrete for the surface of bridge railings, sidewalks, and surfaces indicated.



**NOTES:**

- Cracks may be horizontal, vertical or overhead.
- Epoxy mortars and epoxy compounds shall conform to ASTM C881/C881M, Type IV, Class C, Grade 1 or 3. Surface shall be free of standing water, dust, and debris. Follow manufacturer's instructions for application.

**TYP. CRACK REPAIR DETAILS**



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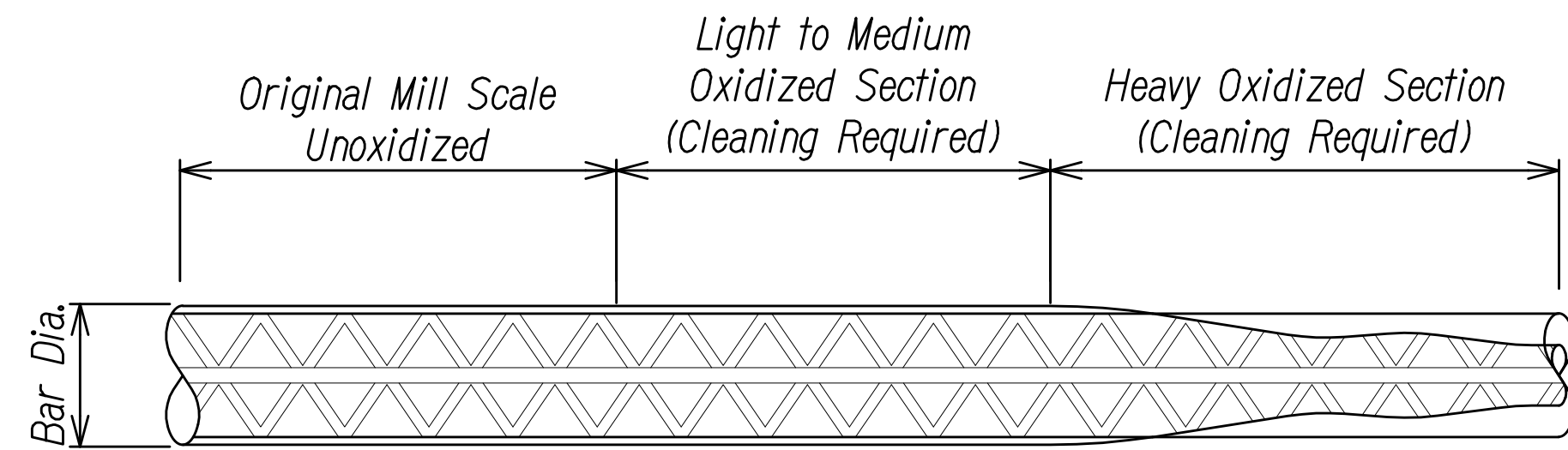
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**REPAIR DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

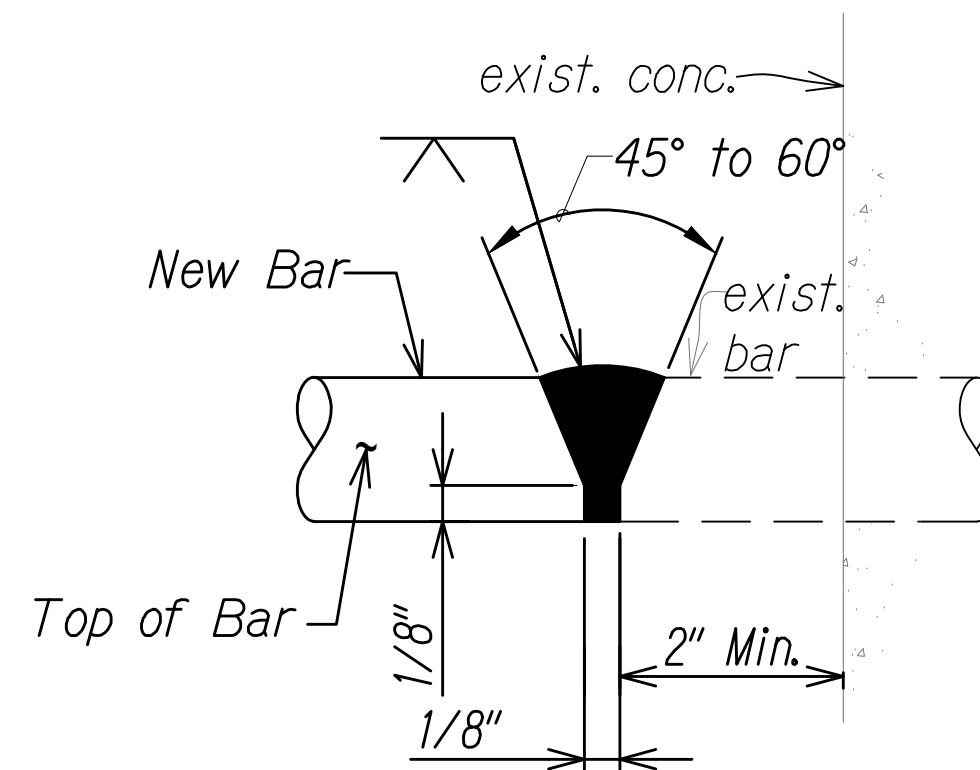
SHEET No. SG-3 OF 27 SHEETS



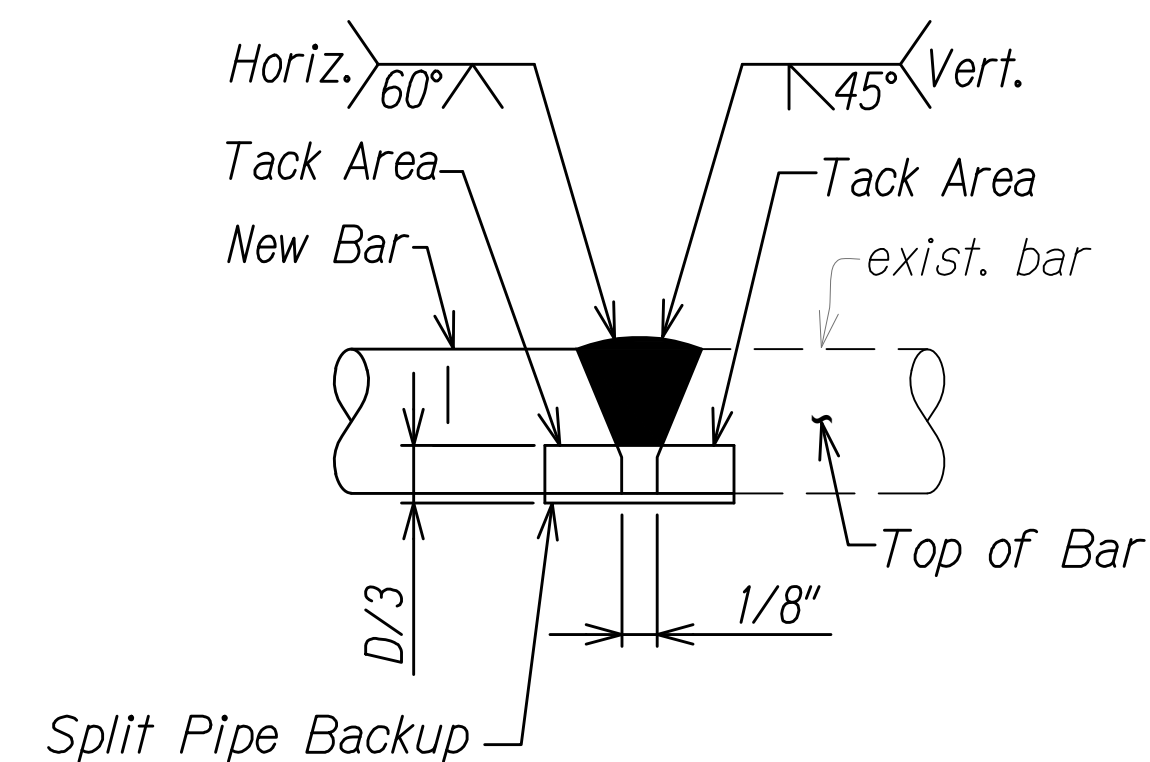
Existing Bar Size	Bar Size ASTM A615	Minimum Diameter (inch)
3/8"φ	#3	5/16"φ
1/2"φ	#4	7/16"φ
5/8"φ	#5	1/2"φ
3/4"φ	#6	5/8"φ
7/8"φ	#7	3/4"φ

**NOTES:**

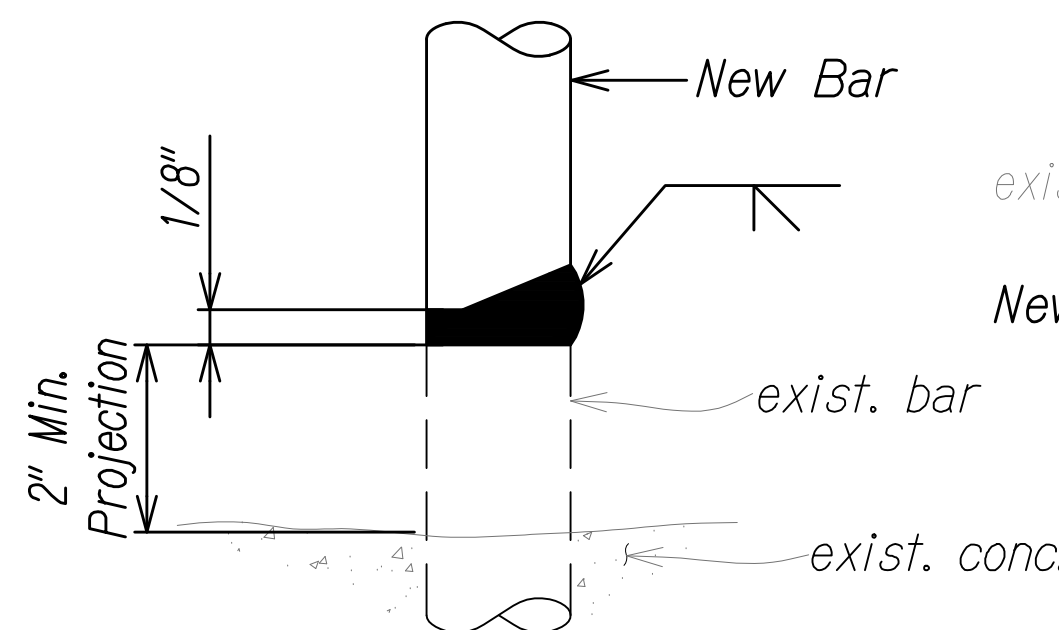
1. Remove all heavy corrosion and scale from reinforcing bars.
2. If reinforcing bar size, after cleaning, is less than the minimum shown in allowable bar size chart, repair by adding additional reinforcing steel.



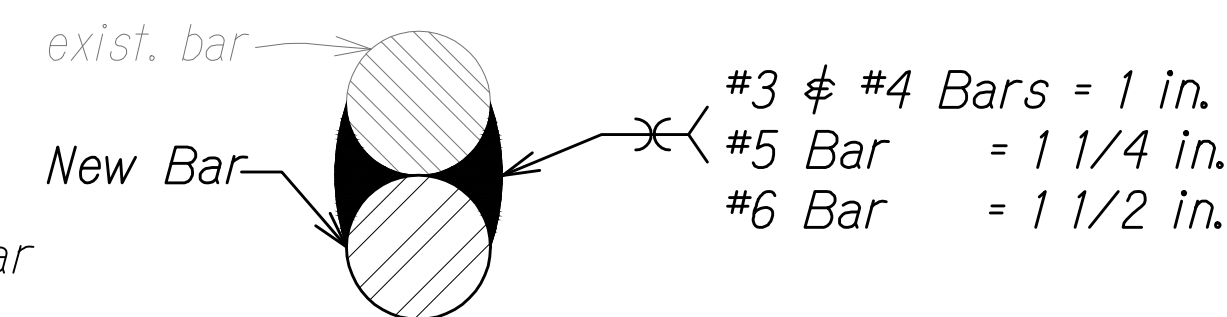
(A) HORIZONTAL



(B) HORIZONTAL AND VERTICAL

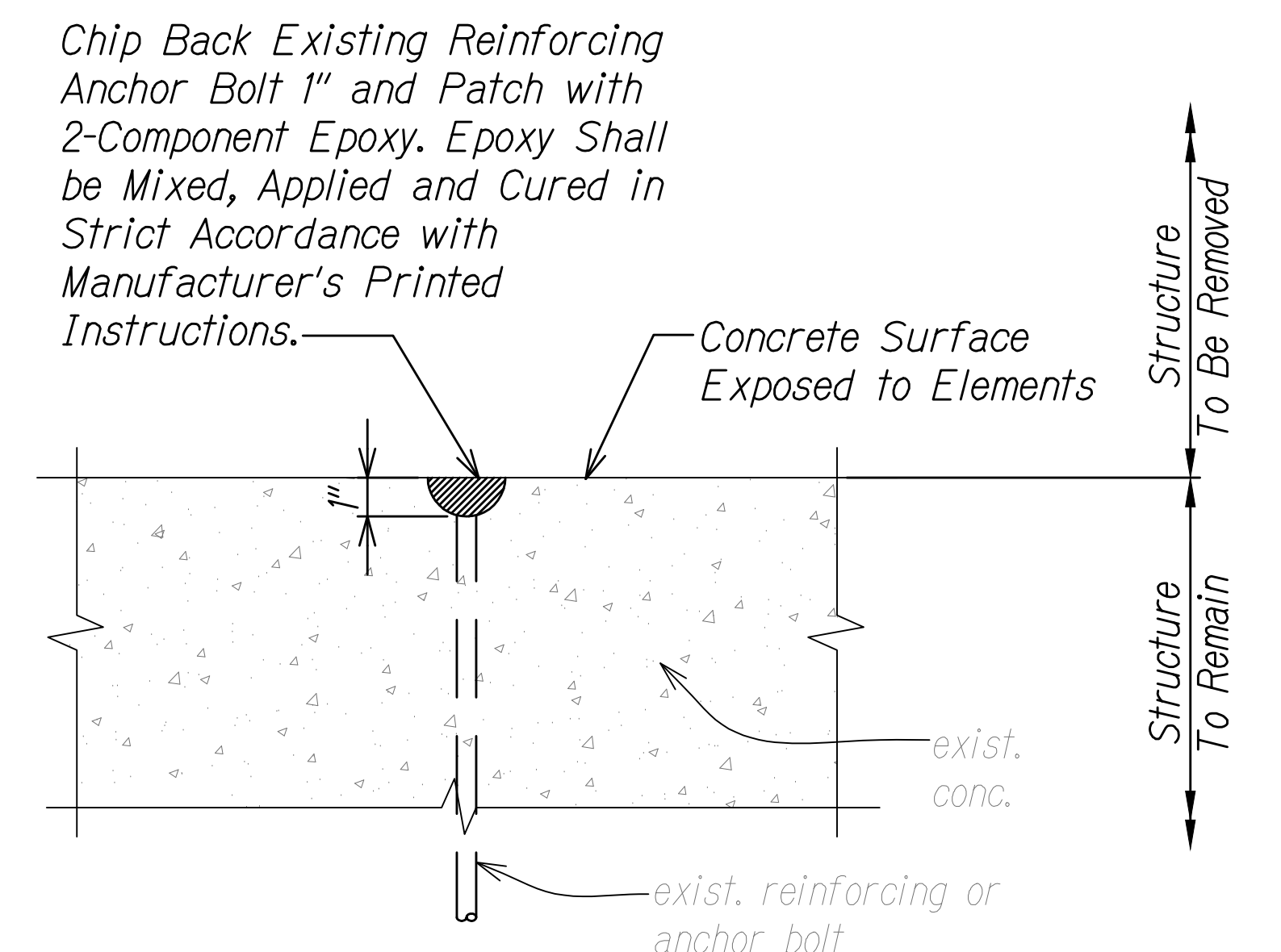


(C) VERTICAL



(D) LAP WELD SPLICE

REPAIR DETAILS

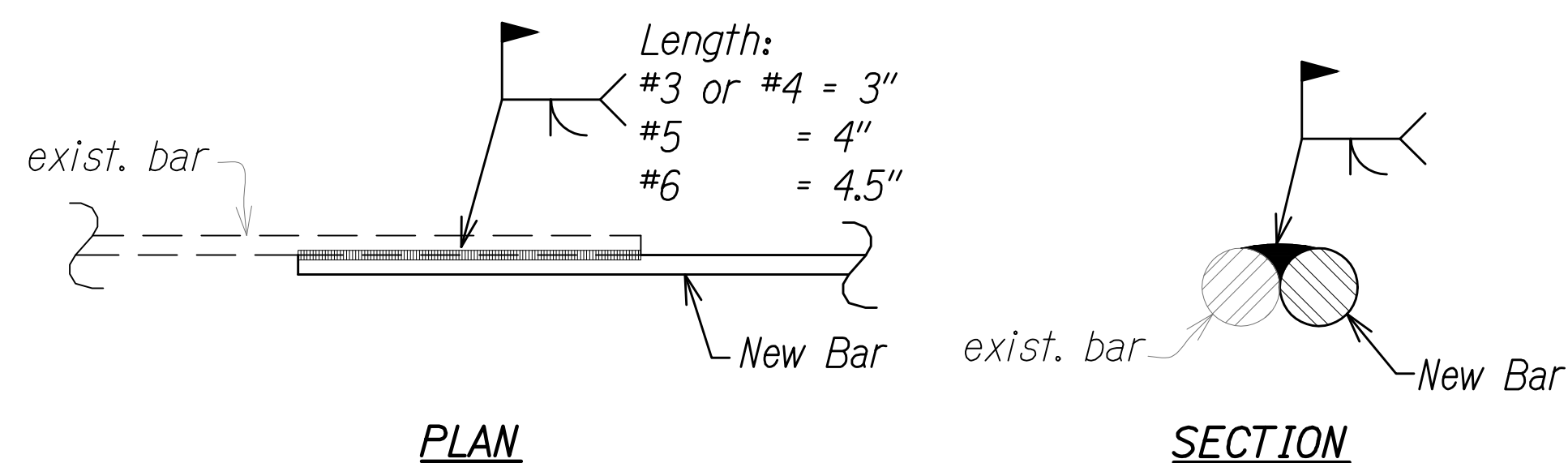


Patching ends of Reinforcing Steel or Anchor Bolt Shall be Considered Incidental to Concrete.

**NOTES:**

Demolition of existing members in the way of new construction shall be executed in a manner such to minimize damage to the portions of the members to remain outside the limits of demolition, where not incorporated into new work.

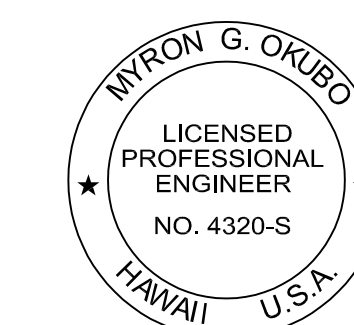
REPAIR DETAILS



ALTERNATE LAP SPLICE DETAILS

REINFORCING WELDING NOTES:

1. Chip, grind, or gouge to sound metal before welding.
2. Use detail A and C for #9 bar and larger, detail B for #8 bar and smaller, detail D for #6 bar and smaller.
3. Use E70 electrodes for stirrups, E90 electrodes for all others.
4. See AWS D1.4 for welding process preheating, cooling controls, and other details, for welding existing rebar which is not ASTM A706.



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Signature: Myron Okubo  
Date: 04/30/26  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**REPAIR DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SG-4 OF 27 SHEETS



BRIDGE SPALL DAMAGE SCHEDULE

BRIDGE NAME	MARK	SPALL (SF)	REMARKS	BRIDGE NAME	MARK	SPALL (SF)	REMARKS
Miller Street Pedestrian Overcrossing	SR-1	27.00	See Sheet SM-1	Piikoi Viaduct	SR-38	300.00	See Sheet SP-1
	SR-2	0.50	See Sheet SW-1		SR-39	1.00	See Sheet SP-1
	SR-3	0.25	See Sheet SW-1		SR-40	0.75	See Sheet SP-1
Ward Avenue Overpass	SR-4	1.25	See Sheet SW-1		SR-41	2.00	See Sheet SP-1
	SR-5	0.25	See Sheet SW-1		SR-42	12.00	See Sheet SP-1
	SR-6	0.50	See Sheet SW-1		SR-43	30.00	See Sheet SP-1
	SR-7	0.50	See Sheet SW-1		SR-44	1.00	See Sheet SP-1
	SR-8	13.75	See Sheet SP-1		SR-45	4.00	See Sheet SP-1
Piikoi Viaduct	SR-9	25.00	See Sheet SP-1		SR-46	1.00	See Sheet SP-1
	SR-10	2.00	See Sheet SP-1		SR-47	2.00	See Sheet SP-1
	SR-11	1.00	See Sheet SP-1		SR-48	0.25	See Sheet SP-1
	SR-12	4.00	See Sheet SP-1		SR-49	2.00	See Sheet SP-1
	SR-13	1.00	See Sheet SP-1		SR-50	8.00	See Sheet SP-1
	SR-14	2.00	See Sheet SP-1		SR-51	21.00	See Sheet SP-1
	SR-15	1.50	See Sheet SP-1		SR-52	90.00	See Sheet SP-1
	SR-16	1.00	See Sheet SP-1		SR-53	1.25	See Sheet SP-1
	SR-17	2.00	See Sheet SP-1		SR-54	2.00	See Sheet SP-1
	SR-18	2.00	See Sheet SP-1		SR-55	6.00	See Sheet SP-1
	SR-19	1.00	See Sheet SP-1		SR-56	30.00	See Sheet SP-1
	SR-20	1.00	See Sheet SP-1		SR-57	1.00	See Sheet SP-1
	SR-21	0.25	See Sheet SP-1		SR-58	2.00	See Sheet SP-1
	SR-22	2.00	See Sheet SP-1		SR-59	1.00	See Sheet SP-1
	SR-23	1.00	See Sheet SP-1		SR-60	15.00	See Sheet SP-1
	SR-24	18.00	See Sheet SP-1		SR-61	0.75	See Sheet SP-1
	SR-25	0.50	See Sheet SP-1		SR-62	2.00	See Sheet SP-1
	SR-26	3.00	See Sheet SP-1		SR-63	4.00	See Sheet SP-1
	SR-27	4.00	See Sheet SP-1		SR-64	2.00	See Sheet SP-1
	SR-28	2.00	See Sheet SP-1		SR-65	0.25	See Sheet SP-1
	SR-29	4.50	See Sheet SP-1		SR-66	4.00	See Sheet SP-1
	SR-30	7.00	See Sheet SP-1		SR-67	3.00	See Sheet SP-1
	SR-31	100.00	See Sheet SP-1		SR-68	1.00	See Sheet SP-1
	SR-32	0.50	See Sheet SP-1		SR-69	4.00	See Sheet SP-1
	SR-33	3.00	See Sheet SP-1		SR-70	1.00	See Sheet SP-2
	SR-34	6.00	See Sheet SP-1		SR-71	2.00	See Sheet SP-2
	SR-35	0.50	See Sheet SP-1		SR-72	1.00	See Sheet SP-2
	SR-36	0.50	See Sheet SP-1		SR-73	1.00	See Sheet SP-2
	SR-37	7.00	See Sheet SP-1		SR-74	3.00	See Sheet SP-2

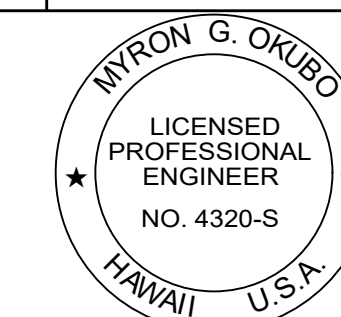
BRIDGE SPALL DAMAGE SCHEDULE

BRIDGE NAME	MARK	SPALL (SF)	REMARKS	BRIDGE NAME	MARK	SPALL (SF)	REMARKS
Piikoi Viaduct	SR-75	7.00	See Sheet SP-2	Keeaumoku Street Overpass	SR-112	2.00	See Sheet SKE-1
	SR-76	35.00	See Sheet SP-2		SR-113	2.00	See Sheet SKE-1
	SR-77	0.25	See Sheet SP-2		SR-114	2.00	See Sheet SKE-1
	SR-78	1.50	See Sheet SP-2		SR-115	2.00	See Sheet SKE-1
	SR-79	1.00	See Sheet SP-2		SR-116	2.00	See Sheet SKE-1
	SR-80	1.00	See Sheet SP-2		SR-117	2.00	See Sheet SKE-1
	SR-81	1.00	See Sheet SP-2		SR-118	1.00	See Sheet SMC-1
	SR-82	1.00	See Sheet SP-2		SR-119	1.00	See Sheet SMC-1
	SR-83	1.00	See Sheet SP-2		SR-120	1.50	See Sheet SMC-1
	SR-84	1.00	See Sheet SP-2		SR-121	1.50	See Sheet SMC-1
	SR-85	1.50	See Sheet SP-2		SR-122	4.00	See Sheet SMC-1
	SR-86	2.00	See Sheet SP-2		SR-123	1.00	See Sheet SMC-1
	SR-87	1.00	See Sheet SP-2		SR-124	1.00	See Sheet SMC-1
	SR-88	2.00	See Sheet SP-2		SR-125	1.50	See Sheet SMC-1
	SR-89	0.25	See Sheet SP-2	SR-126	1.00	See Sheet SMC-1	
	SR-90	2.00	See Sheet SP-2	SR-127	8.00	See Sheet SMC-1	
	SR-91	1.00	See Sheet SP-2	SR-128	1.00	See Sheet SMC-1	
	SR-92	1.00	See Sheet SP-2	SR-129	4.00	See Sheet SMC-1	
	SR-93	2.25	See Sheet SP-2	SR-130	8.00	See Sheet SMC-1	
	SR-94	1.00	See Sheet SP-2	SR-131	15.00	See Sheet SMC-1	
	SR-95	0.25	See Sheet SP-2	SR-132	1.00	See Sheet SMC-1	
	SR-96	1.00	See Sheet SP-2	SR-133	1.00	See Sheet SMC-1	
	SR-97	0.25	See Sheet SP-2	SR-134	1.00	See Sheet SMC-1	
	SR-98	0.25	See Sheet SP-2	SR-135	1.00	See Sheet SMC-1	
	SR-99	0.50	See Sheet SP-2	SR-136	1.50	See Sheet SMC-1	
	SR-100	0.25	See Sheet SP-2	SR-137	1.50	See Sheet SMC-1	
	SR-101	0.25	See Sheet SP-2	SR-138	6.00	See Sheet SMC-1	
	SR-102	1.00	See Sheet SP-2	SR-139	1.00	See Sheet SMC-1	
	SR-103	0.25	See Sheet SP-2	SR-140	2.00	See Sheet SMC-1	
	SR-104	0.75	See Sheet SP-2	SR-141	1.50	See Sheet SMC-1	
	SR-105	0.25	See Sheet SP-2	SR-142	1.50	See Sheet SMC-1	
	SR-106	0.25	See Sheet SP-2	SR-143	1.00	See Sheet SMC-1	
	SR-107	2.00	See Sheet SP-2				
	SR-108	0.25	See Sheet SP-2				
	SR-109	0.50	See Sheet SP-2				
	Keeaumoku Street Overpass	SR-110	4.00	See Sheet SKE-1			
		SR-111	4.00	See Sheet SKE-1			

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	359	381

BRIDGE CRACK DAMAGE SCHEDULE

BRIDGE NAME	MARK	CRACK (FT)	REMARKS
Ward Avenue Overpass	CR-1	24.5	See Sheet SW-1
	CR-2	3.5	See Sheet SW-1
	CR-3	14.0	See Sheet SW-1
	CR-4	7.0	See Sheet SW-1



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Myron Okubo 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DAMAGE SCHEDULE**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

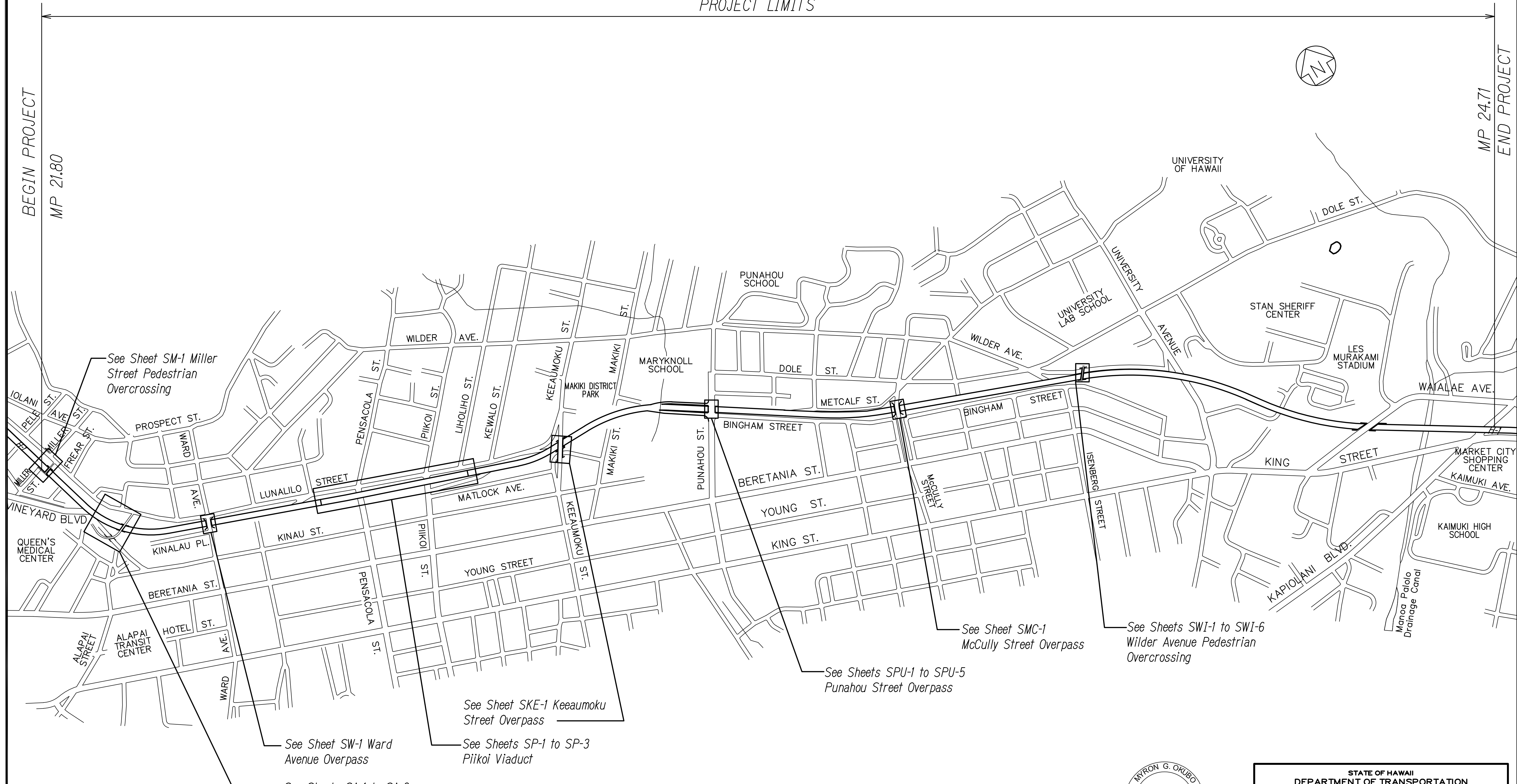
SHEET No. SG-5 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	360	381

PROJECT LIMITS

BEGIN PROJECT  
MP 21.80

END PROJECT  
MP 24.71



See Sheet SM-1 Miller Street Pedestrian Overcrossing

See Sheet SW-1 Ward Avenue Overpass

See Sheets SA-1 to SA-3 Alapai Street Pedestrian Overcrossing

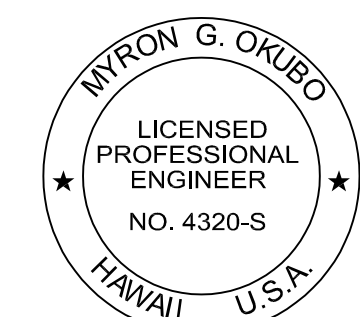
See Sheet SKE-1 Keeaumoku Street Overpass

See Sheets SP-1 to SP-3 Piikoi Viaduct

See Sheets SPU-1 to SPU-5 Punahou Street Overpass

See Sheet SMC-1 McCully Street Overpass

See Sheets SWI-1 to SWI-6 Wilder Avenue Pedestrian Overcrossing



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

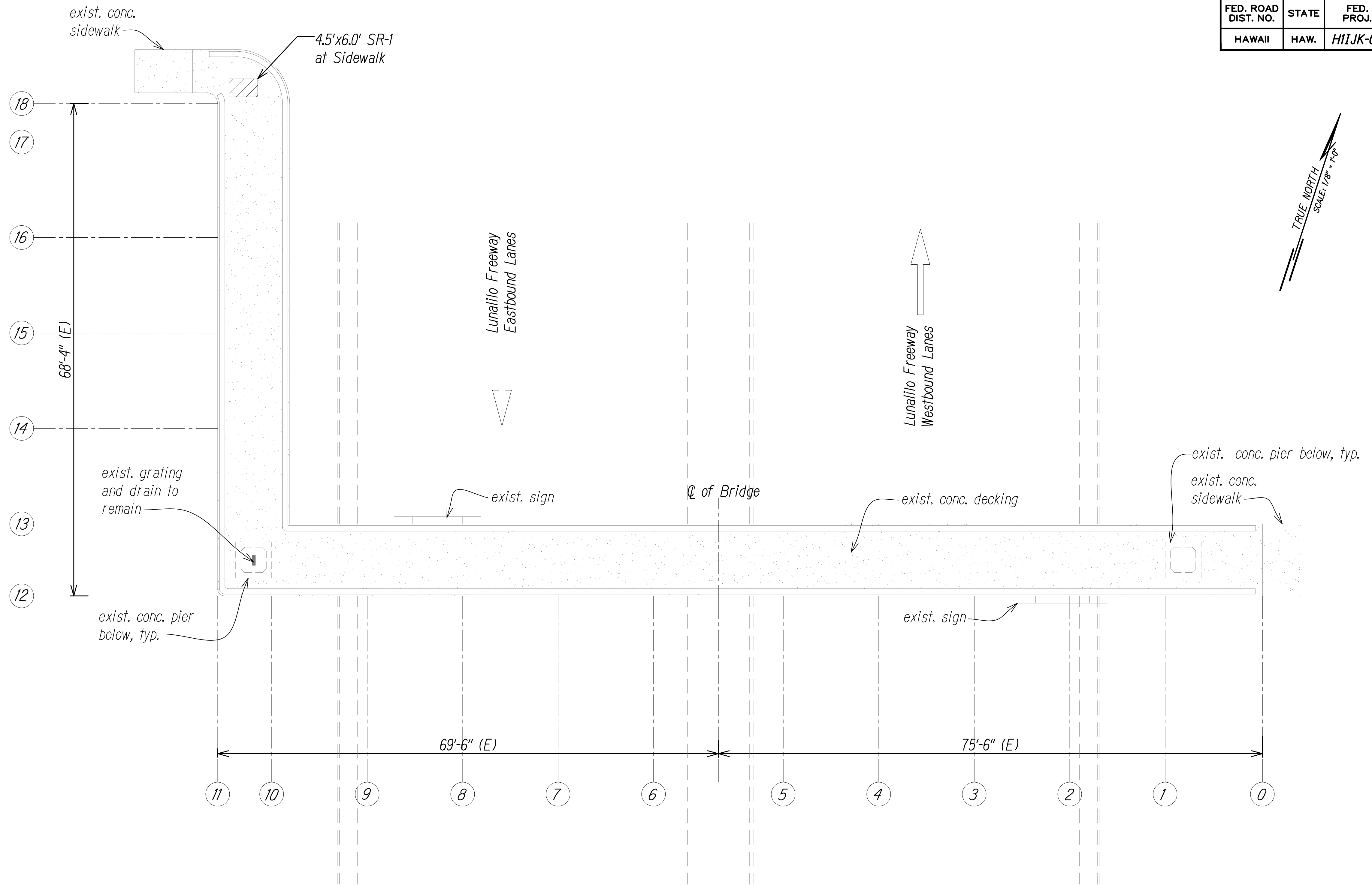
**KEY PLAN**

**INTERSTATE ROUTE H-1 RESURFACING**  
**Miller Pedestrian Overpass to Kapiolani Interchange**  
**Federal Aid Project No. H11JK-01-17M**

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SG-6 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	361	381



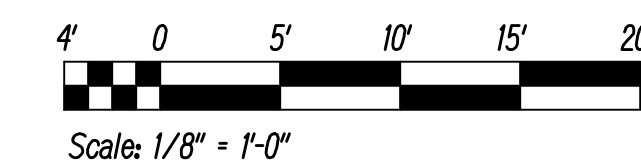
**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
3. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

**OVERCROSSING - PLAN**

Scale: 1/8" = 1'-0"

GRAPHIC SCALE:



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SIGNATURE *Myron Okubo* 04/30/26  
EXPIRATION DATE OF THE LICENSE

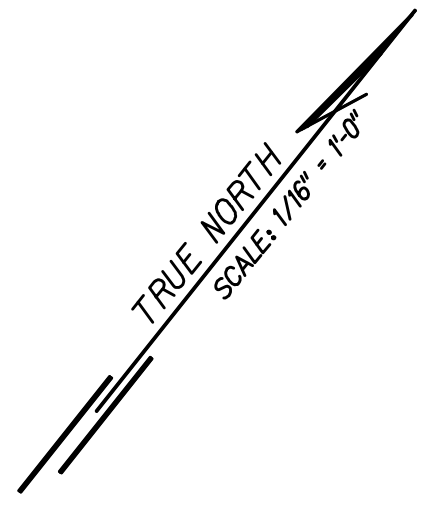
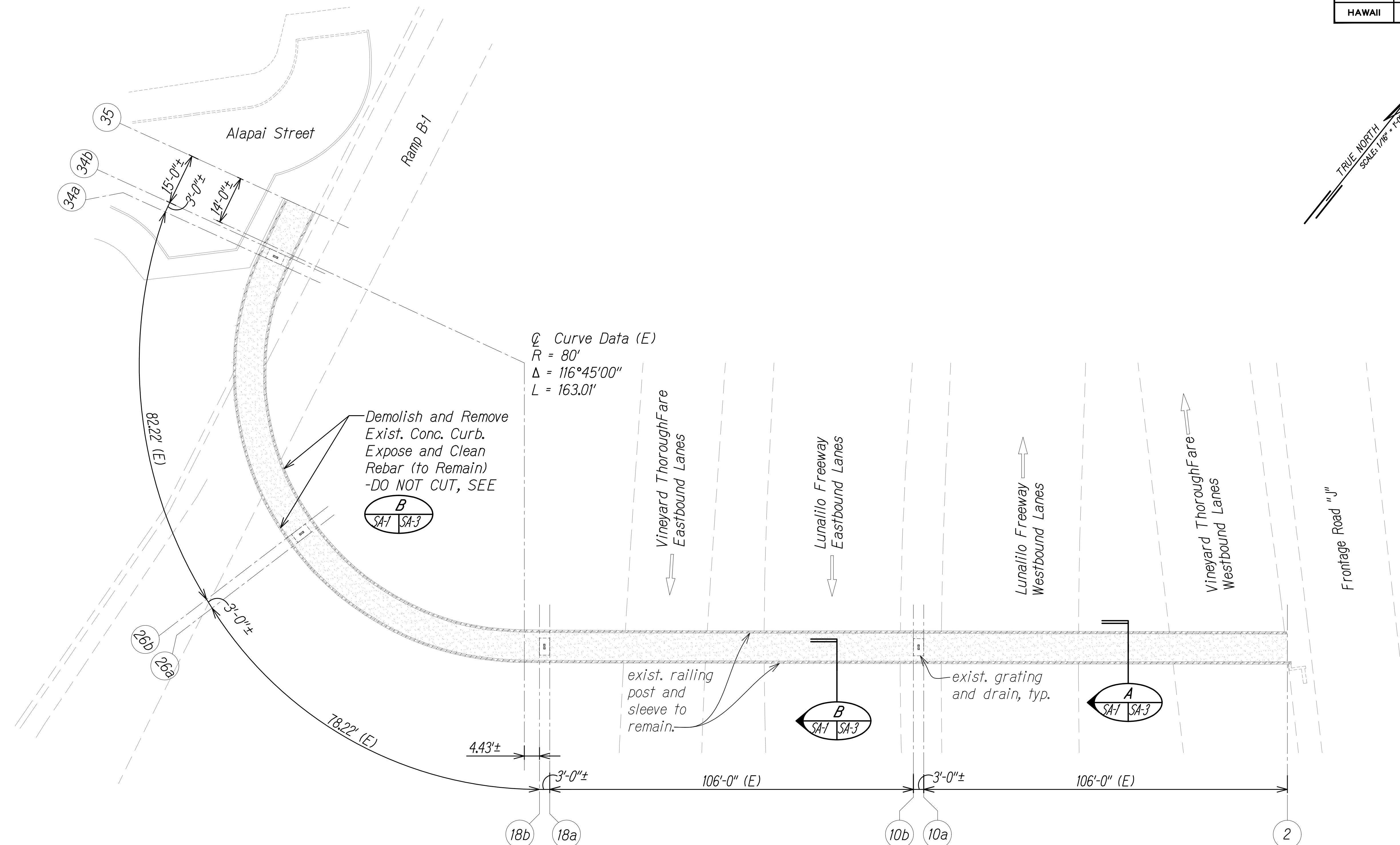
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MILLER STREET PEDESTRIAN  
OVERCROSSING - PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SM-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	362	381



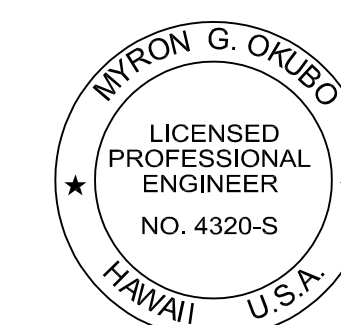
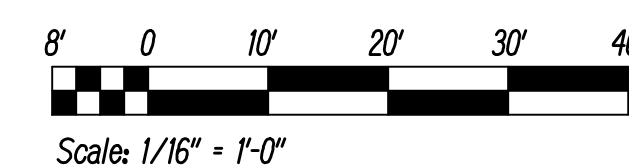
**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. See Electrical Drawings for LED Lights and New Conduits Construction.
3. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

**DEMOLITION PLAN**

Scale: 1/16" = 1'-0"

GRAPHIC SCALE:



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Signature: Myron Okubo  
 Date: 04/30/26  
 EXPIRATION DATE OF THE LICENSE

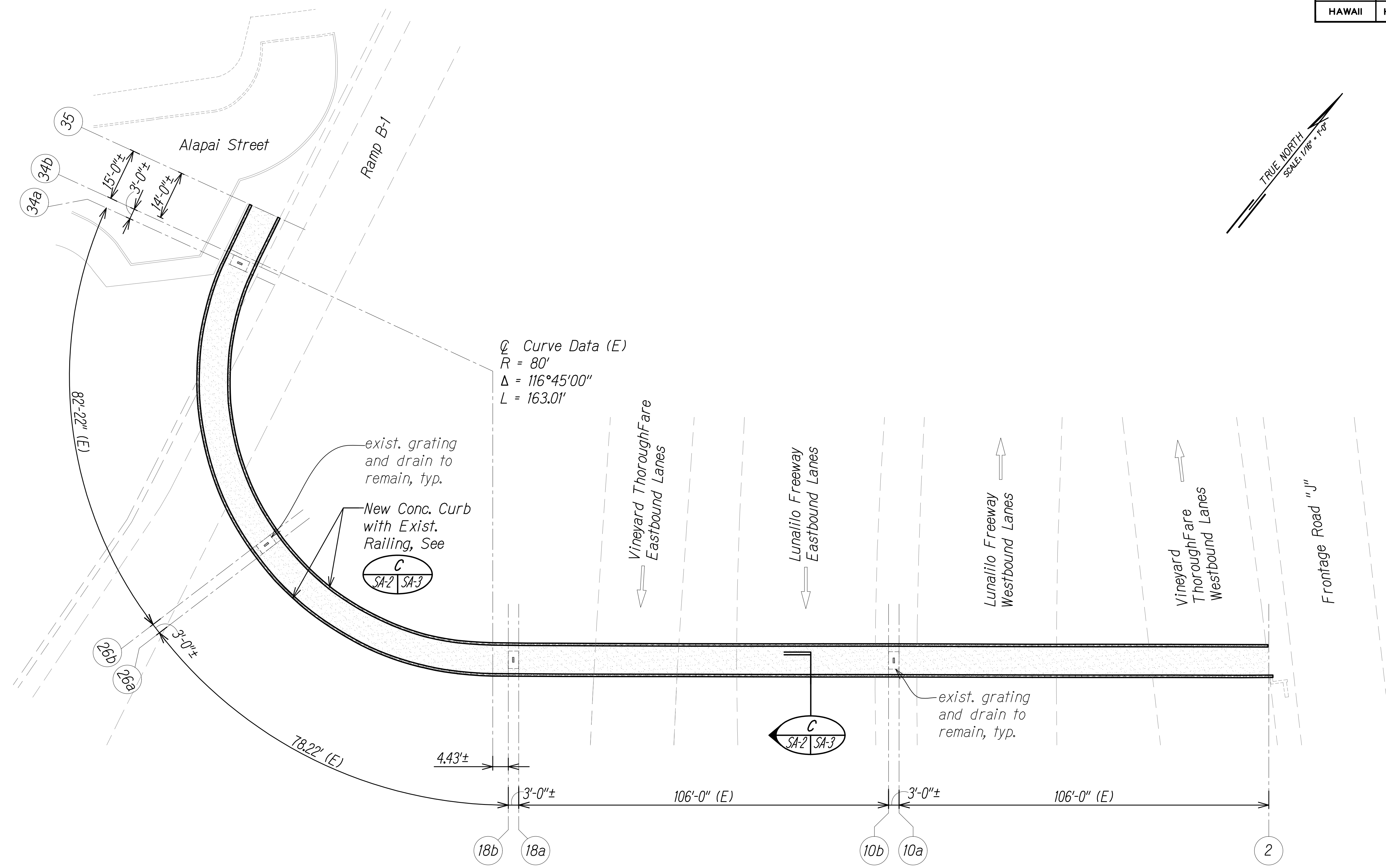
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**ALAPAI STREET PEDESTRIAN OVERCROSSING - DEMOLITION PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIJK-01-17M

Scale: AS NOTED Date: JUNE, 2020

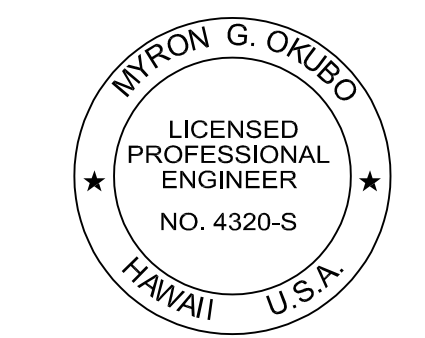
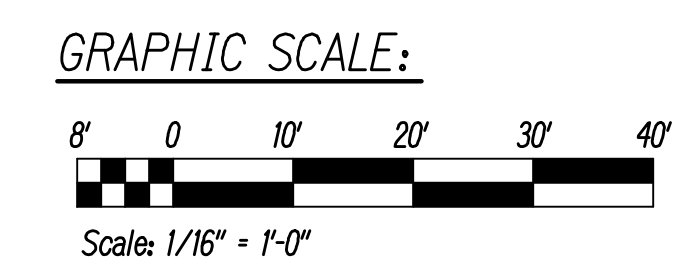
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	363	381



**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. See Electrical Drawings for LED Lights and New Conduits Construction.
3. Provide Access for Pedestrian, Secure Work Site at End of Day To Provide Protection at Demoad Rails, No work Over Live Traffic, etc

**RENOVATION PLAN**  
Scale: 1/16" = 1'-0"



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*Myron Okubo* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

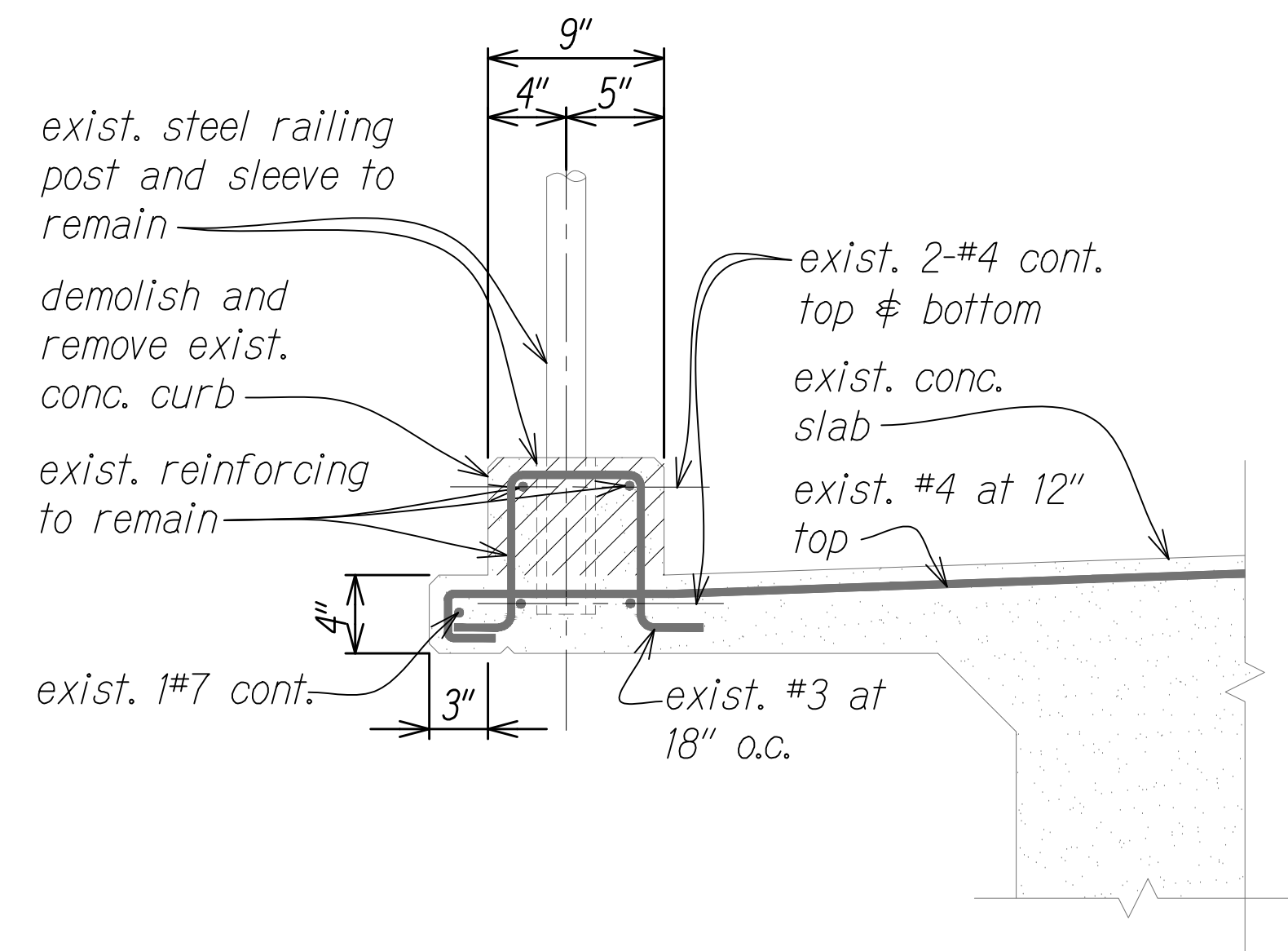
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ALAPAI STREET PEDESTRIAN OVERCROSSING - RENOVATION PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

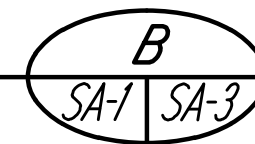
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SHEET No.SA-2 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	364	381



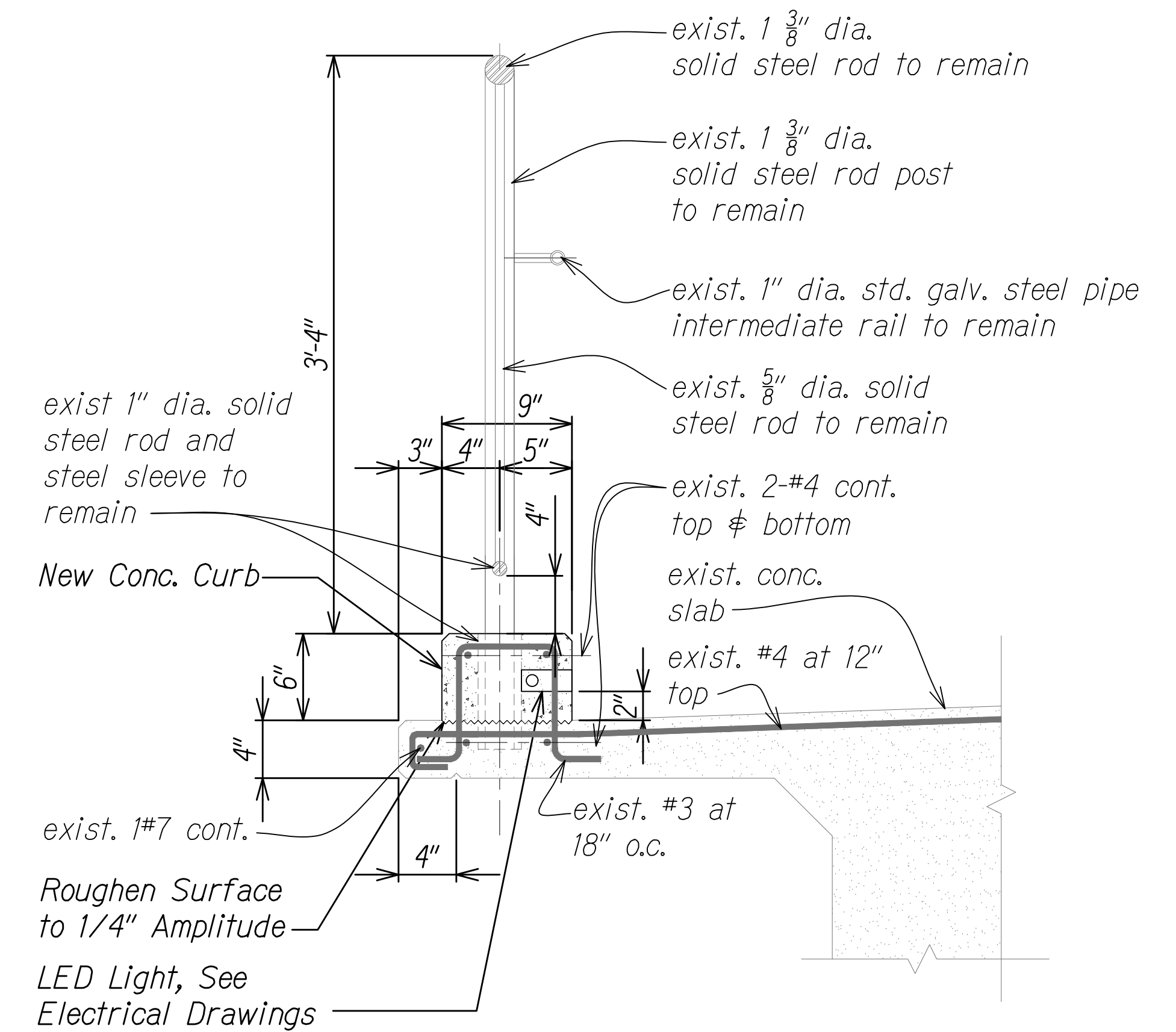
**CURB DEMOLITION DETAIL**

Scale: 1 1/2" = 1'-0"



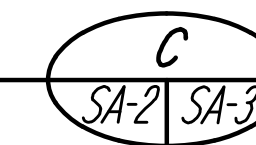
**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. See Electrical Drawings for LED Lights and New Conduits Construction.
3. Take Precautions so as Not to Damage Existing Reinforcing Steel and Pedestrian Railing. Should the Existing Reinforcing Steel be Damaged Splice New Bar In Accordance with Details on Sheet SG-4 At No Additional Cost to the State. Damages to the Existing Pedestrian Railing should be Repaired or Replaced at no Additional Cost to the State and as Directed by the Engineer.



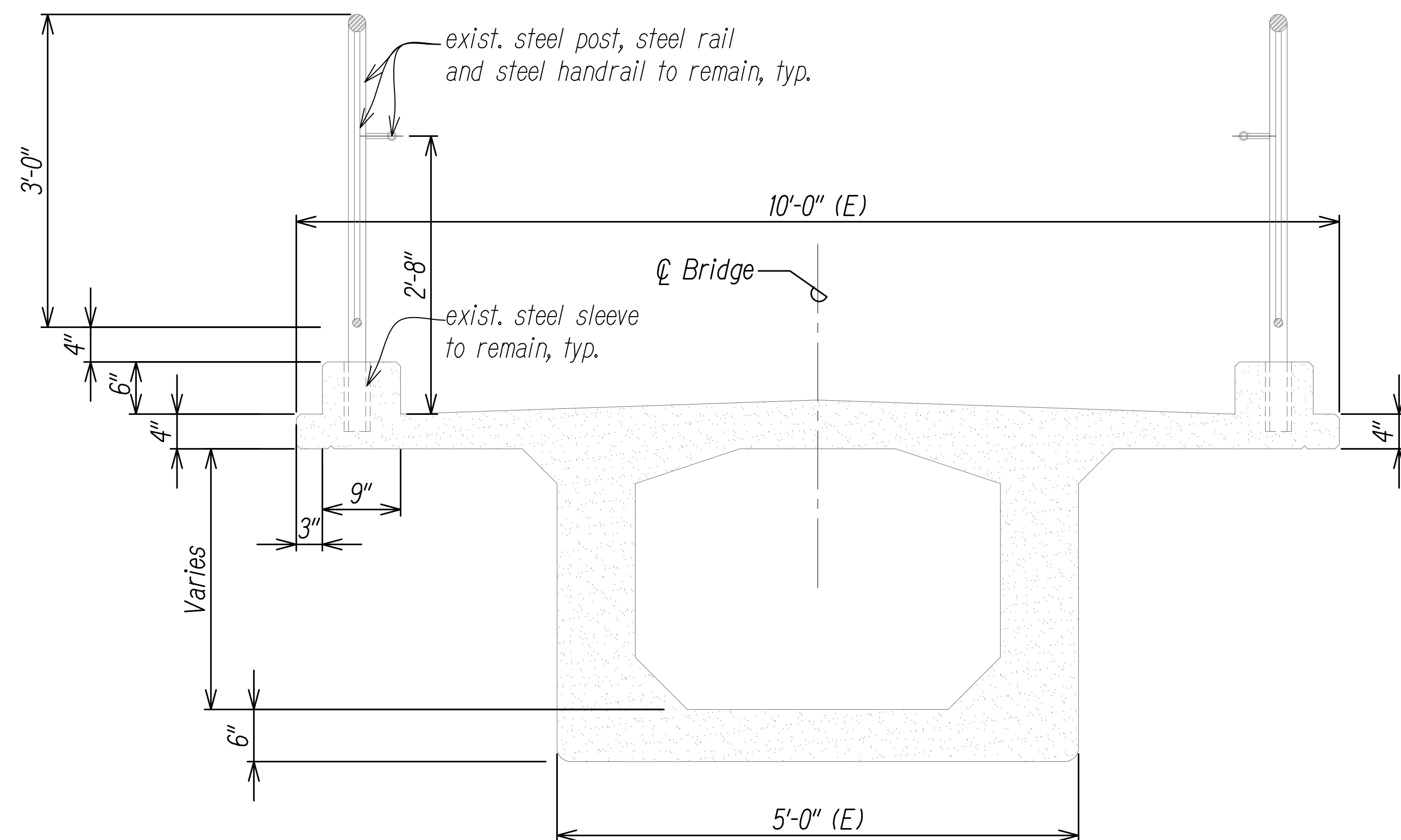
**CURB RENOVATION DETAIL**

Scale: 1 1/2" = 1'-0"



**NOTE:**

Lap splices shall be 48 bar diameters or 2'-0" whichever is greater if new bar is required, unless otherwise shown.

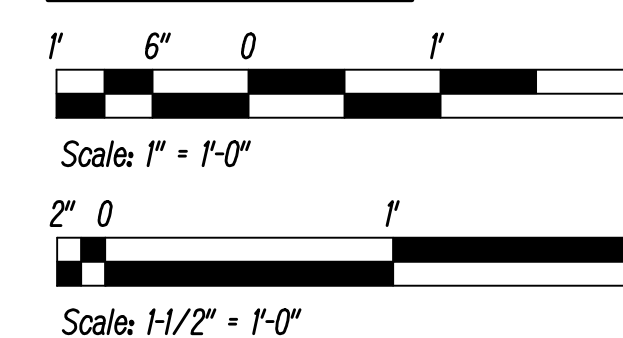


**BRIDGE SECTION**

Scale: 1" = 1'-0"



**GRAPHIC SCALE:**



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SIGNATURE: Myron Okubo  
EXPIRATION DATE OF THE LICENSE: 04/30/26

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

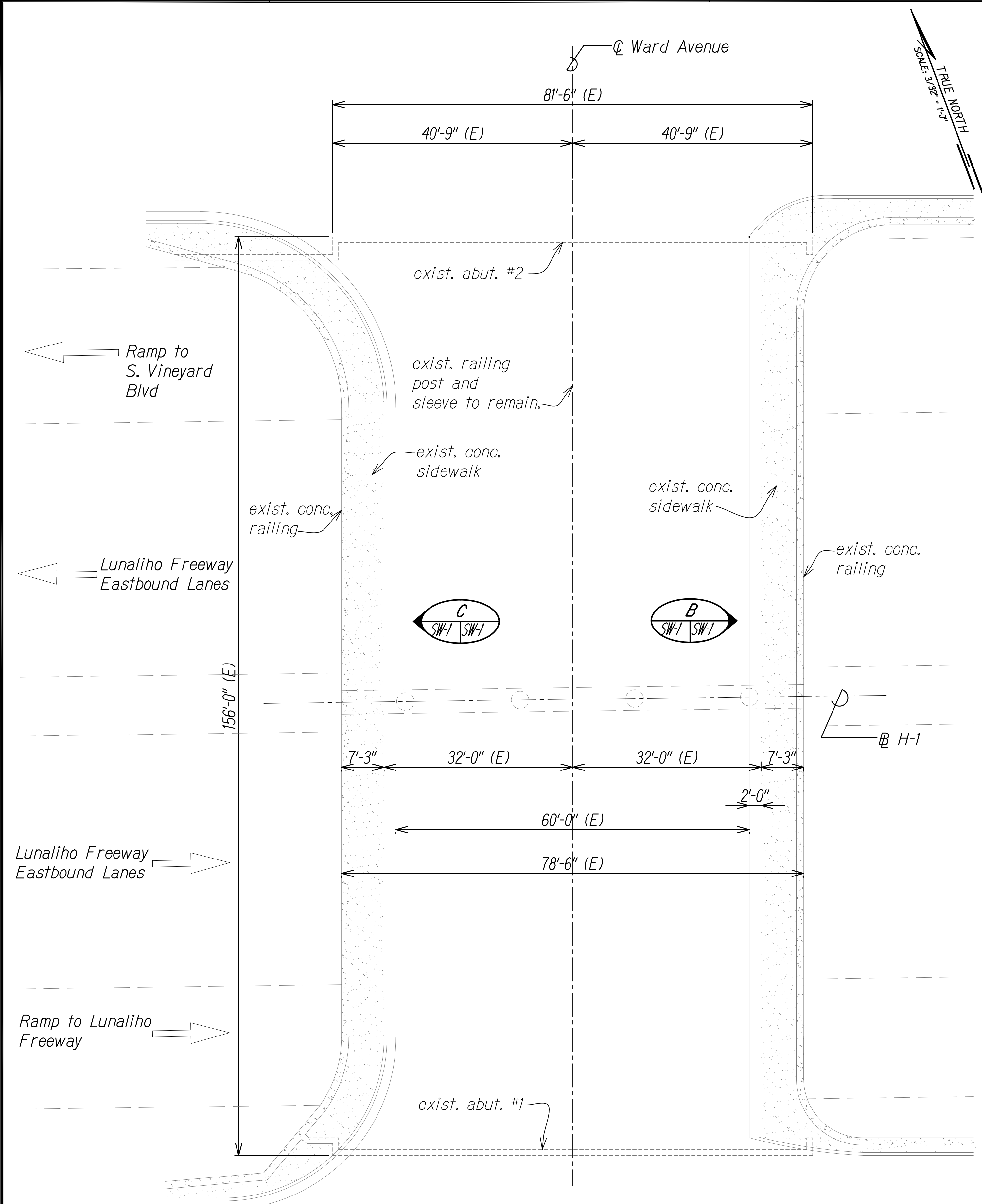
**ALAPAI STREET PEDESTRIAN OVERCROSSING - DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

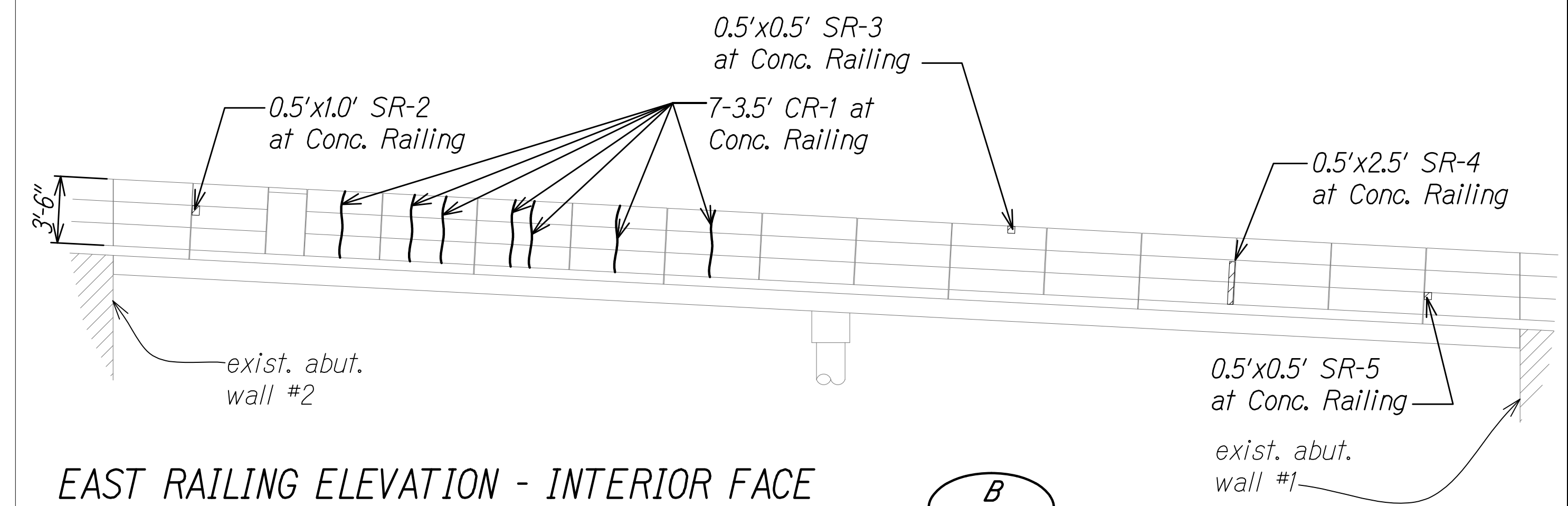
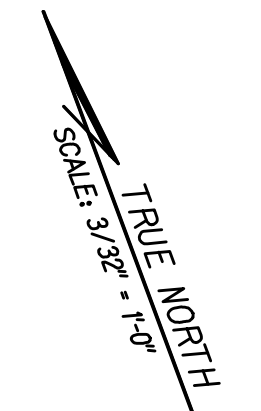
Scale: AS NOTED Date: JUNE, 2020

SHEET No. SA-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	365	381

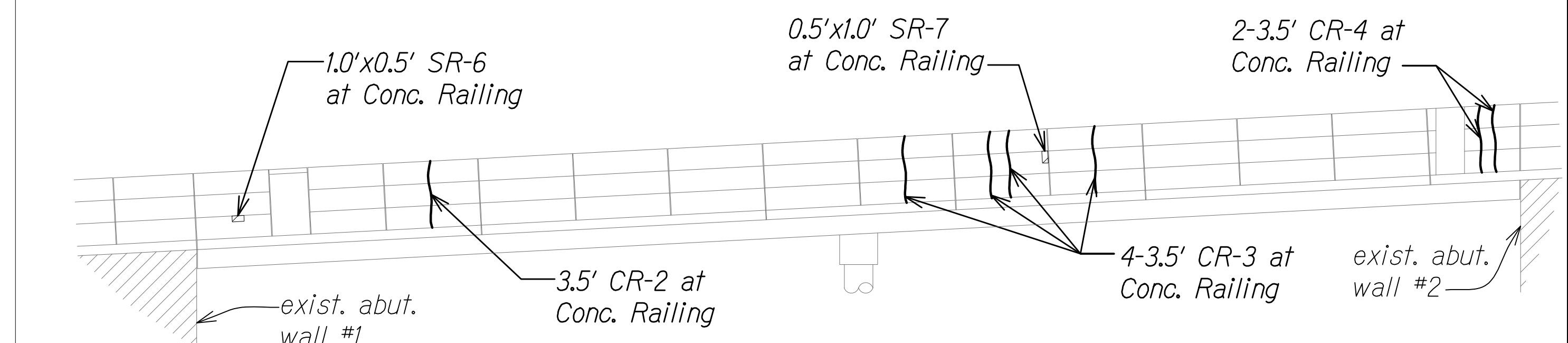


**PLAN**  
Scale: 3/32" = 1'-0"



**EAST RAILING ELEVATION - INTERIOR FACE**

Scale: 3/32" = 1'-0" Horiz.  
3/16" = 1'-0" Vert.



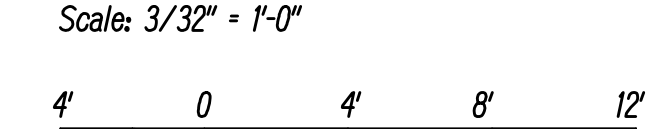
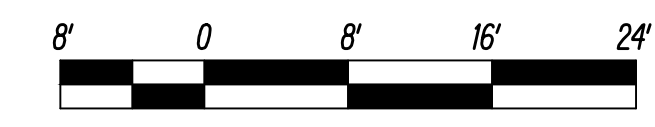
**WEST RAILING ELEVATION - INTERIOR FACE**

Scale: 3/32" = 1'-0" Horiz.  
3/16" = 1'-0" Vert.

**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. CR-1, CR-2, etc. Denotes Concrete Crack Repair. See Sheet SG-3.
3. SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
3. Provide Access for Pedestrian, Secure Work Site at End of Day To Provide Protection at Demoed Rails, No work Over Live Traffic, etc

**GRAPHIC SCALES:**



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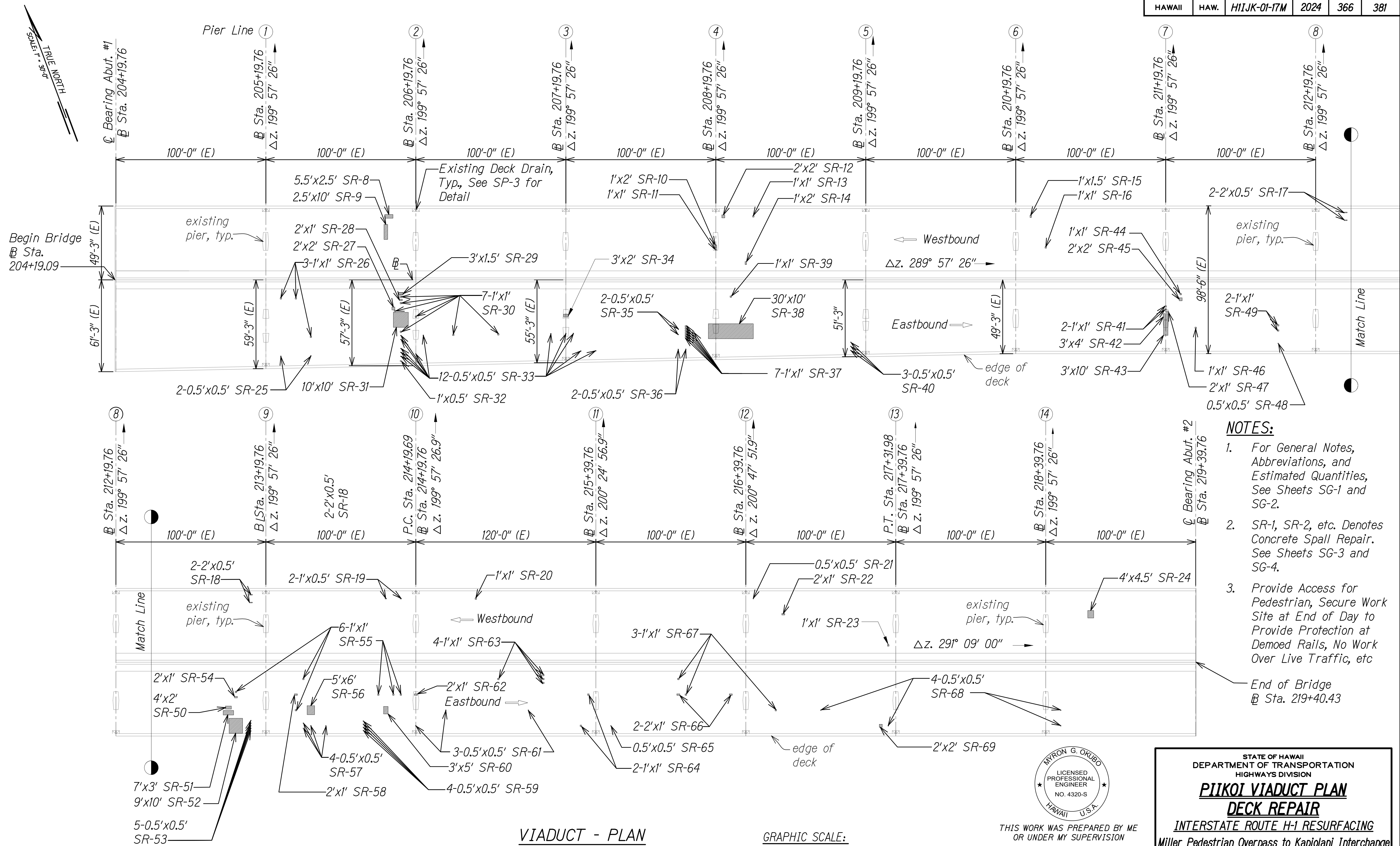
SIGNATURE: *Myron Okubo* 04/30/26  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WARD AVENUE OVERPASS**  
**PLAN AND RAILING ELEVATIONS**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SW-1 OF 27 SHEETS

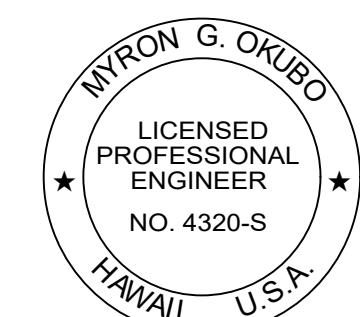
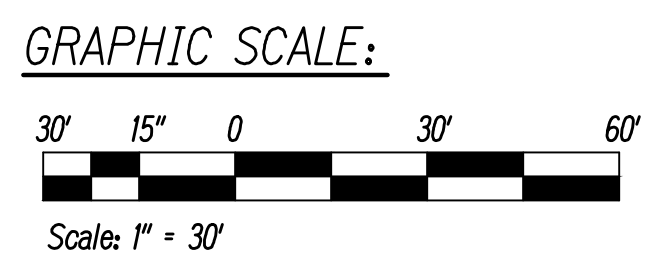
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJK-01-17M	2024	366	381



- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
  - SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
  - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demolded Rails, No Work Over Live Traffic, etc

End of Bridge  
Sta. 219+40.43

**VIADUCT - PLAN**  
Scale: 1" = 30'



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SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PIIKOI VIADUCT PLAN**  
**DECK REPAIR**

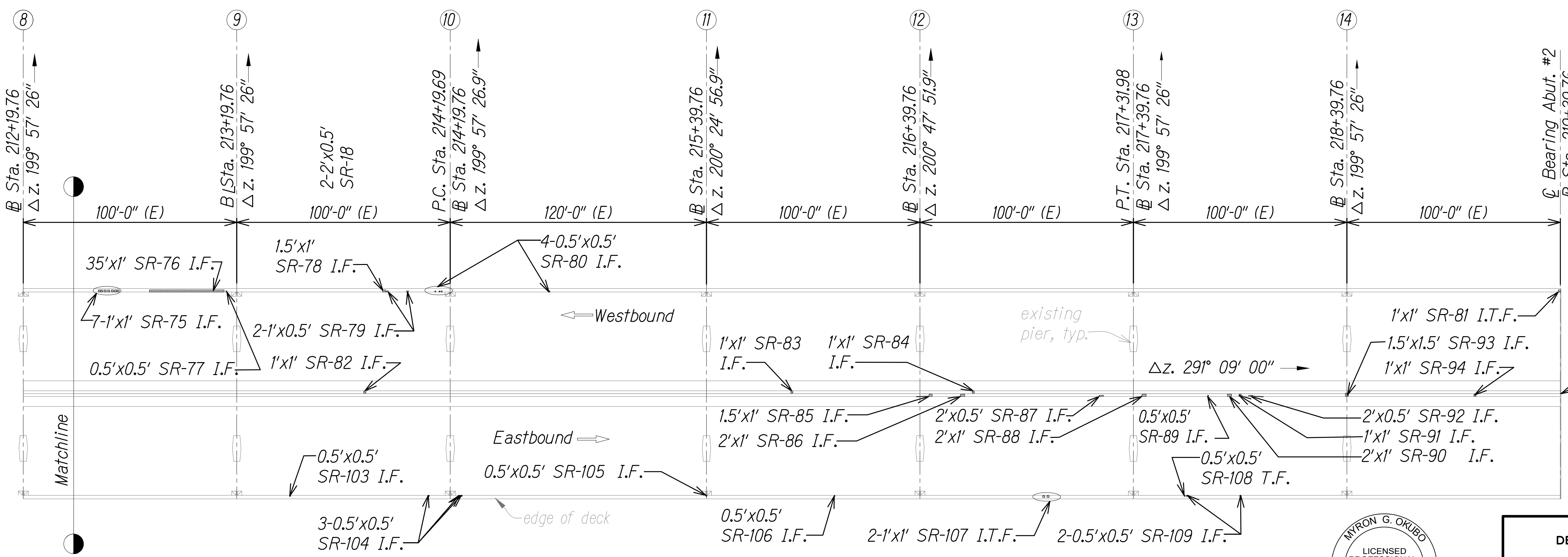
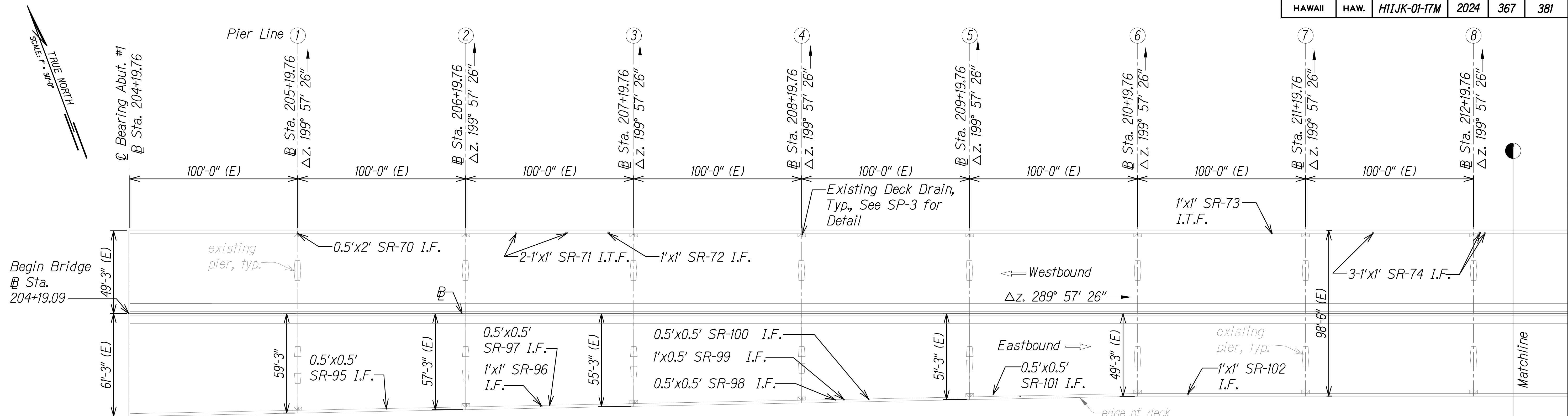
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIJK-01-17M

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SP-1 OF 27 SHEETS

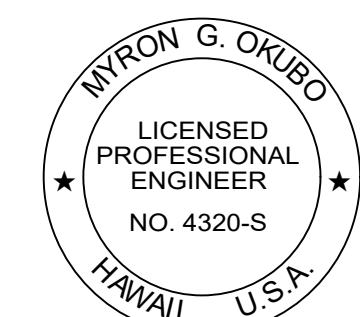
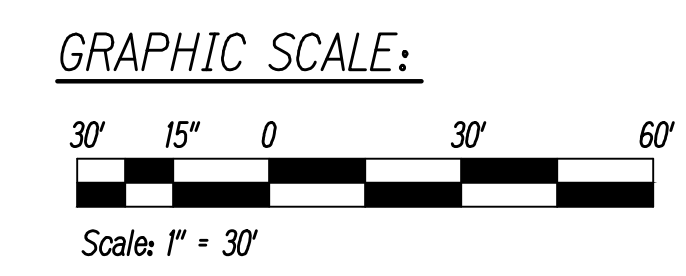


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	367	381



- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
  - SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
  - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demolded Rails, No Work Over Live Traffic, etc

**VIADUCT PLAN**  
Scale: 1" = 30'



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*Myron Okubo* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

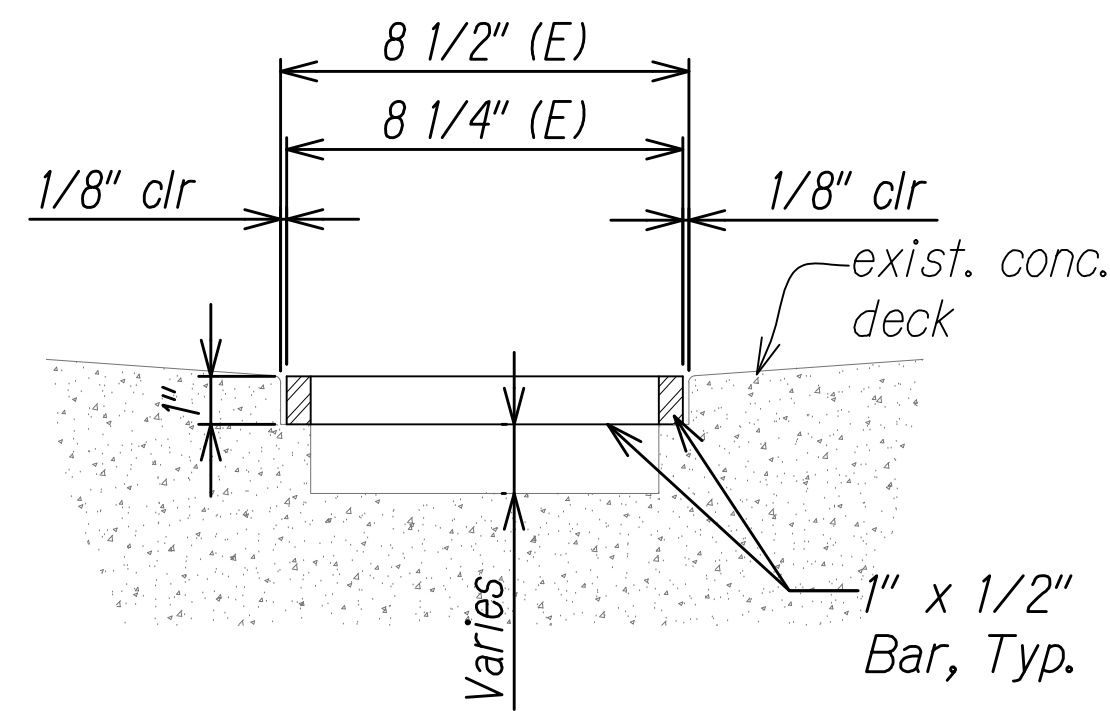
**PIIKOI VIADUCT PLAN**  
**RAILING REPAIR**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

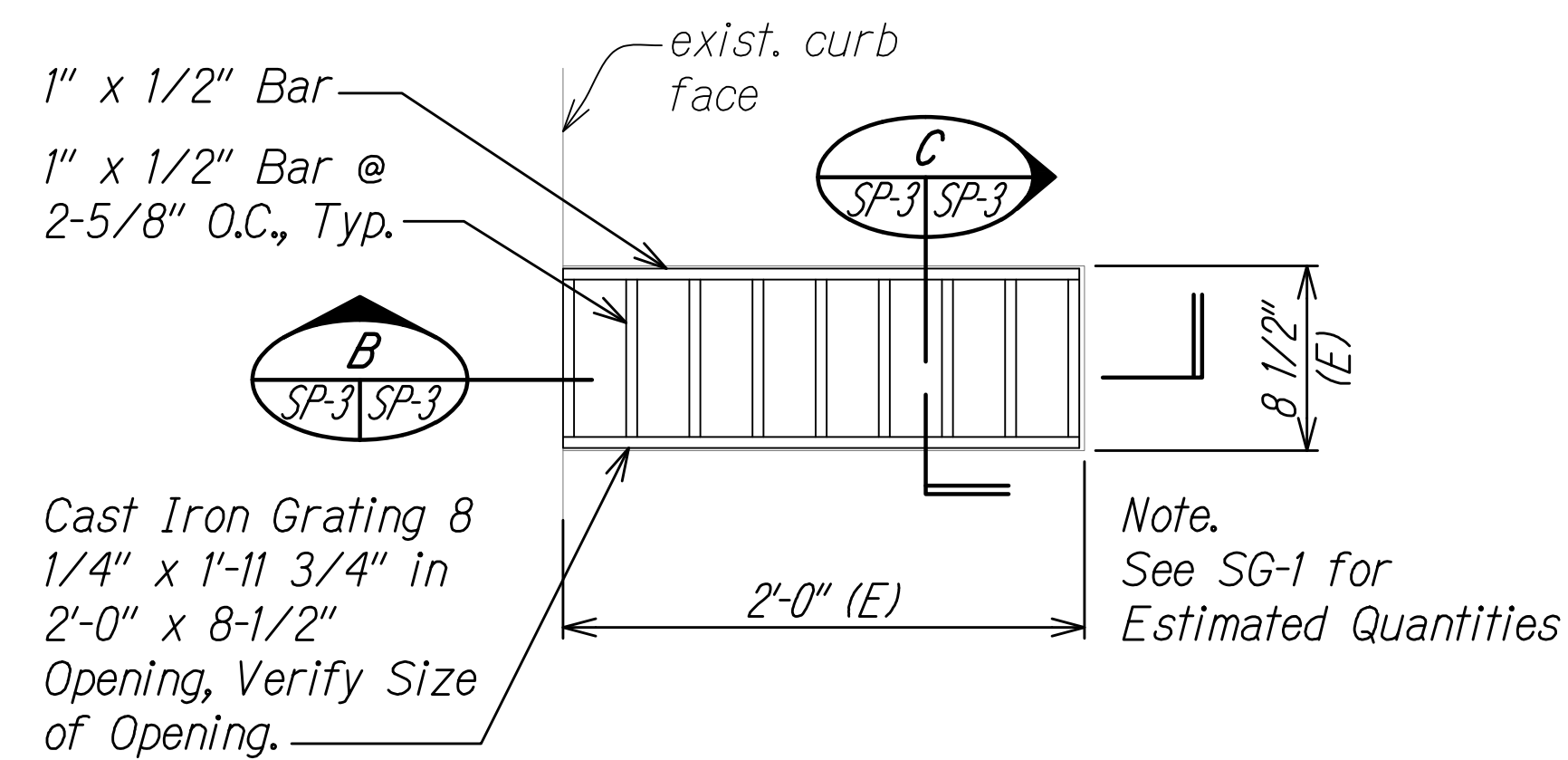
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SHEET No. SP-2 OF 27 SHEETS

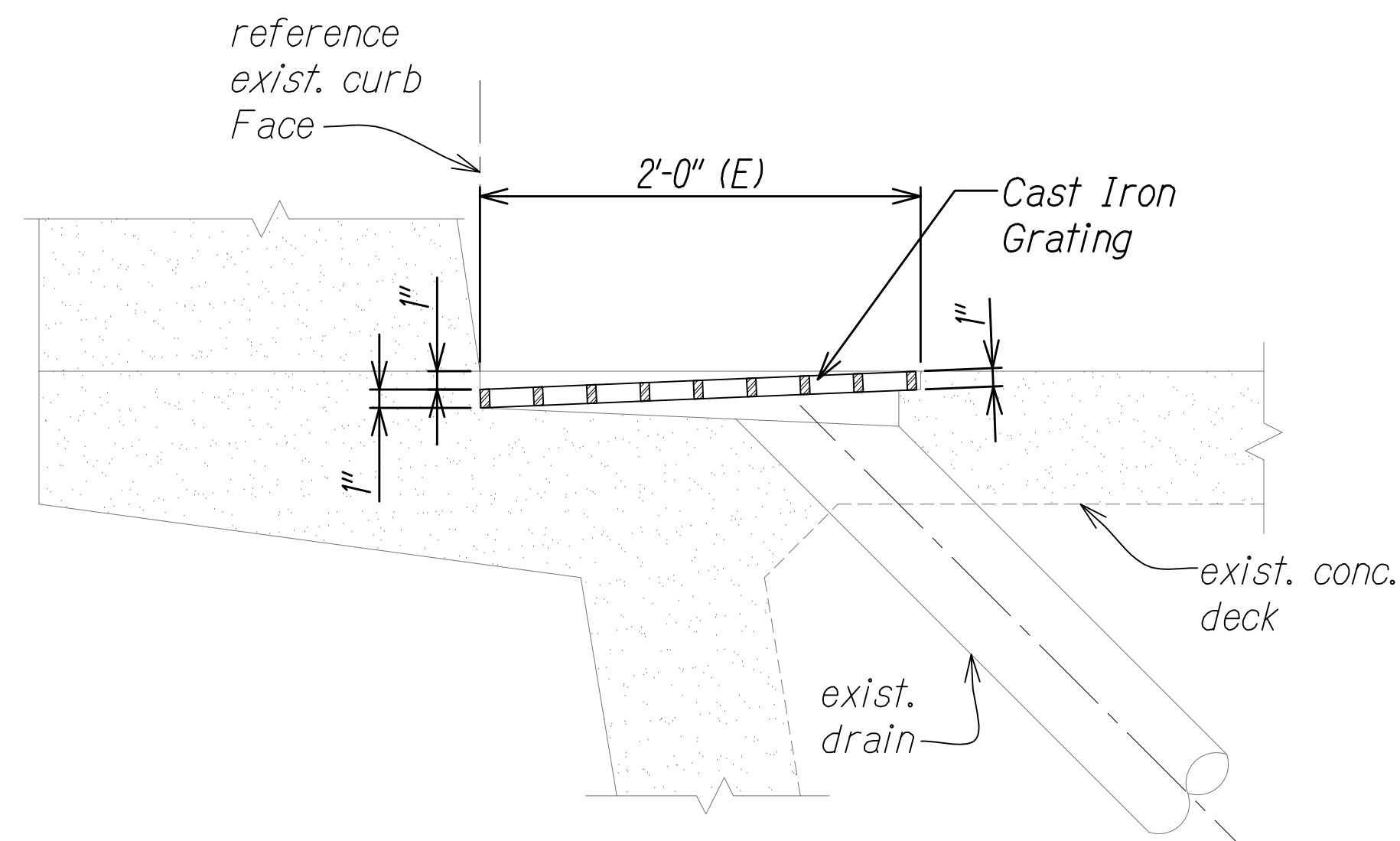
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIIJK-01-17M	2024	368	381



**SECTION**  
Scale: 3" = 1'-0"  
C  
SP-3 SP-3



**GRATING PLAN**  
Scale: 1 1/2" = 1'-0"  
A  
SP-3 SP-3

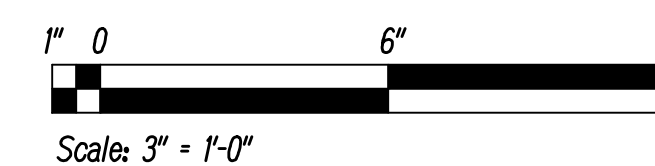
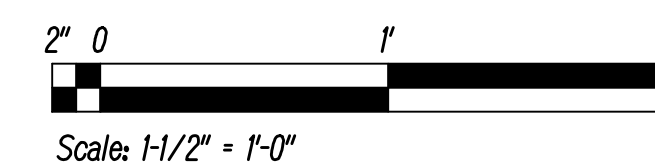


**SECTION**  
Scale: 1 1/2" = 1'-0"  
B  
SP-3 SP-3

**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 And SG-2.
2. The Contractor To Verify Size Of Opening Of Deck Drain.
3. Clear Debris and Dirt From Deck Drain and Downspout which was Clogged by Debris and Dirt.
4. Replace Or Repair Existing Deck Drain Grating which was Damaged or Missing.
5. Deck Drain Grating to be Able to Resist HL-93 Loading.

**GRAPHIC SCALES:**



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Date: 04/30/26  
EXPIRATION DATE OF THE LICENSE

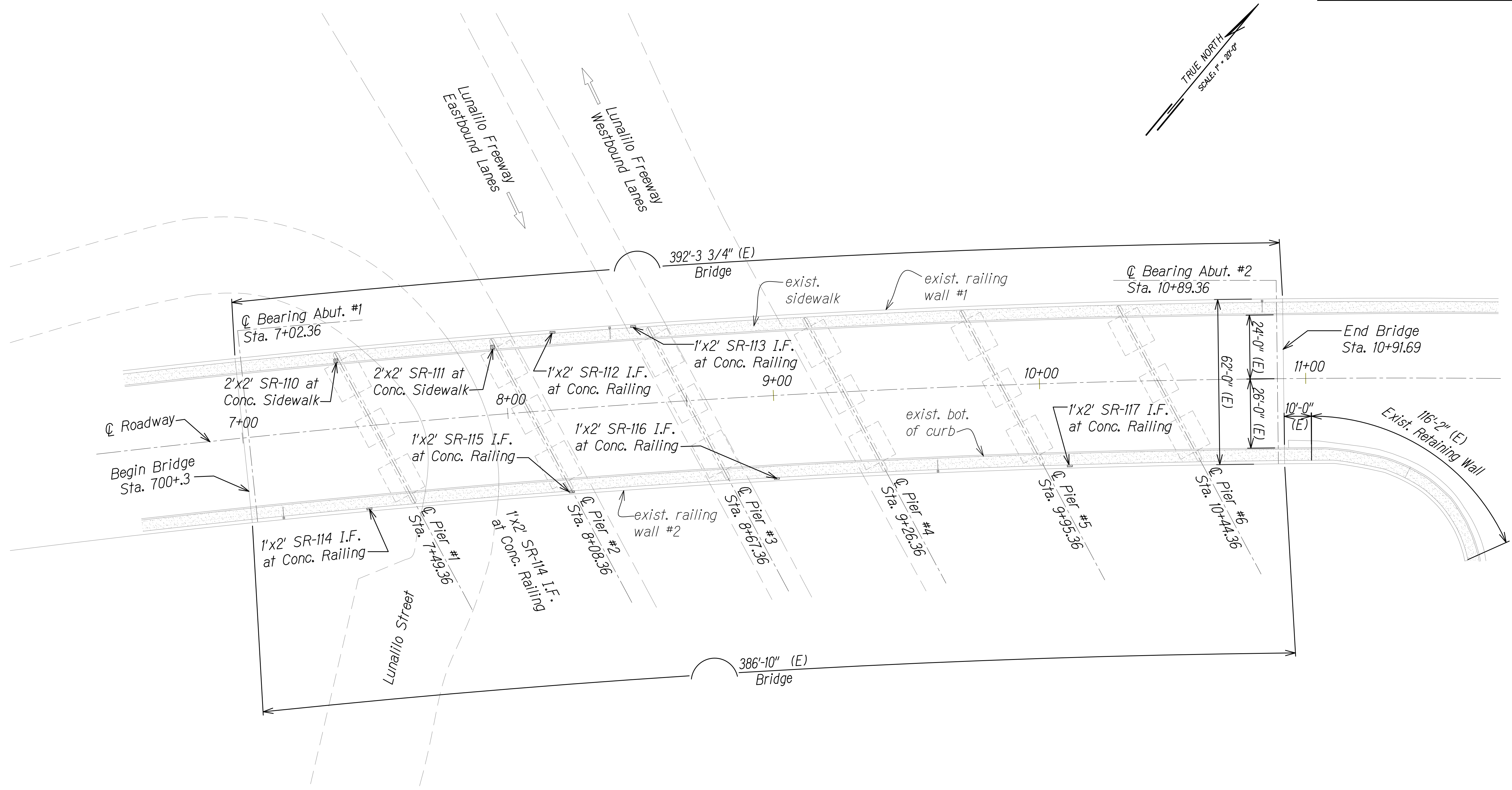
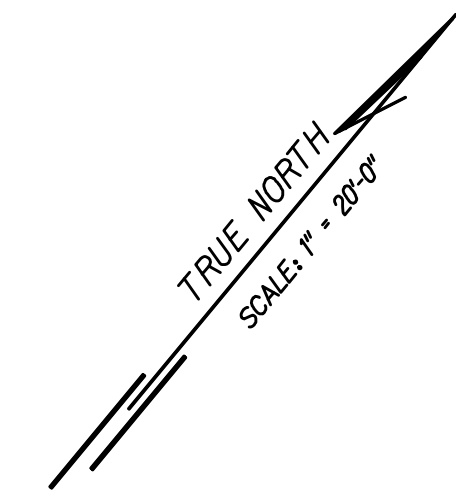
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PIIKOI VIADUCT**  
**DECK DRAIN DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIIJK-01-17M

Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SP-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	369	381

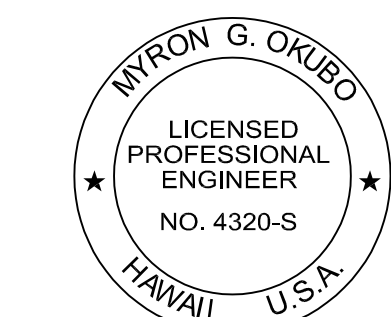
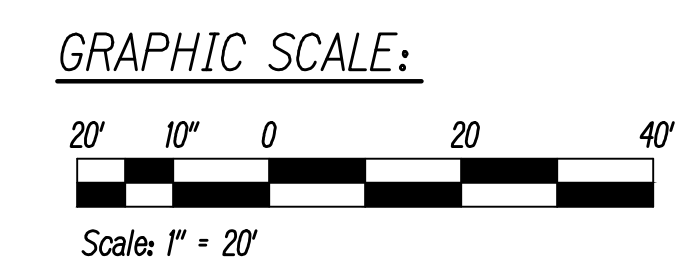


**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
3. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoe Rails, No Work Over Live Traffic, etc

**OVERPASS PLAN**

Scale: 1" = 20'



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*Myron Okubo* 04/30/26  
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

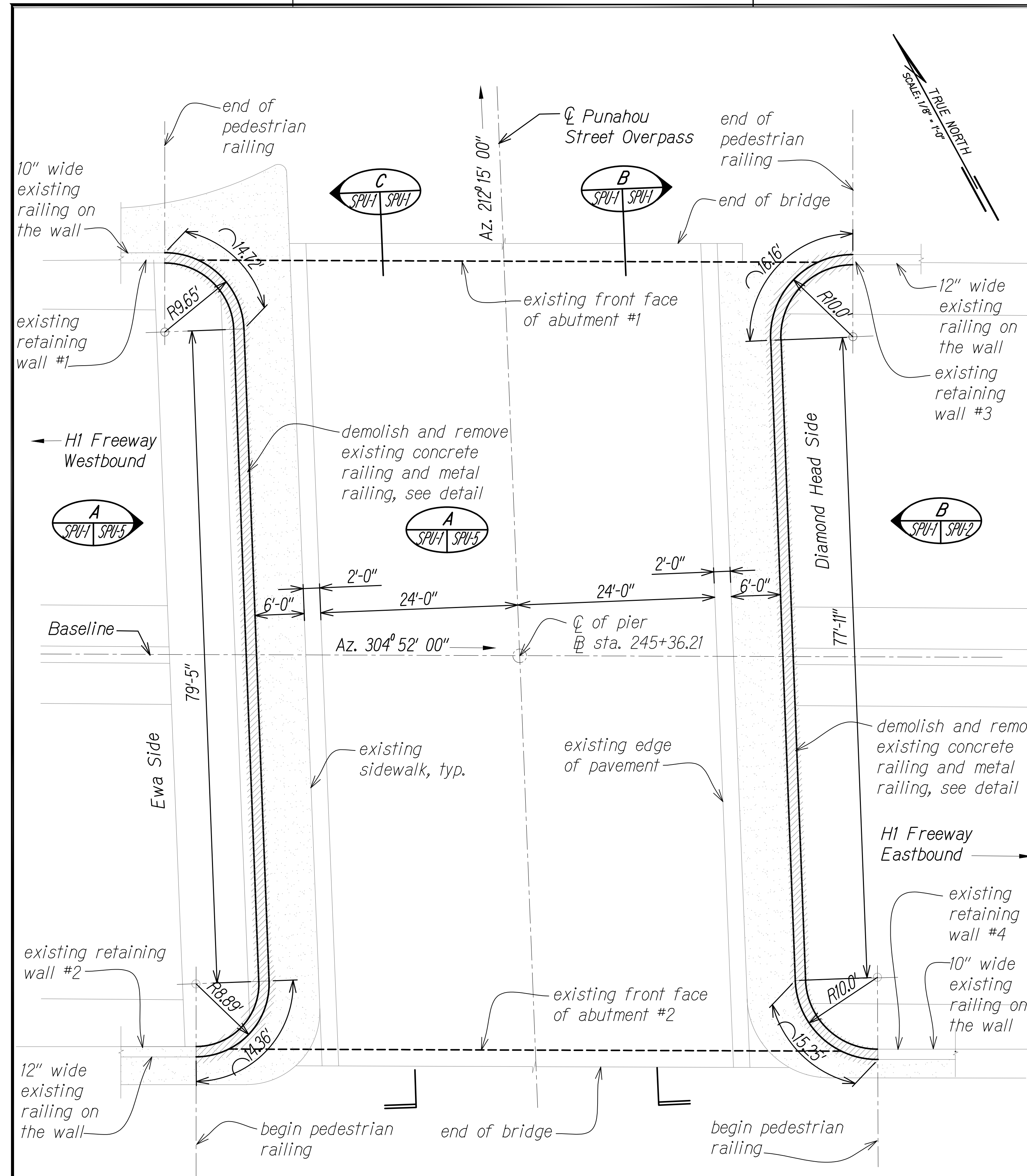
**KEEAUMOKU STREET  
OVERPASS - PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

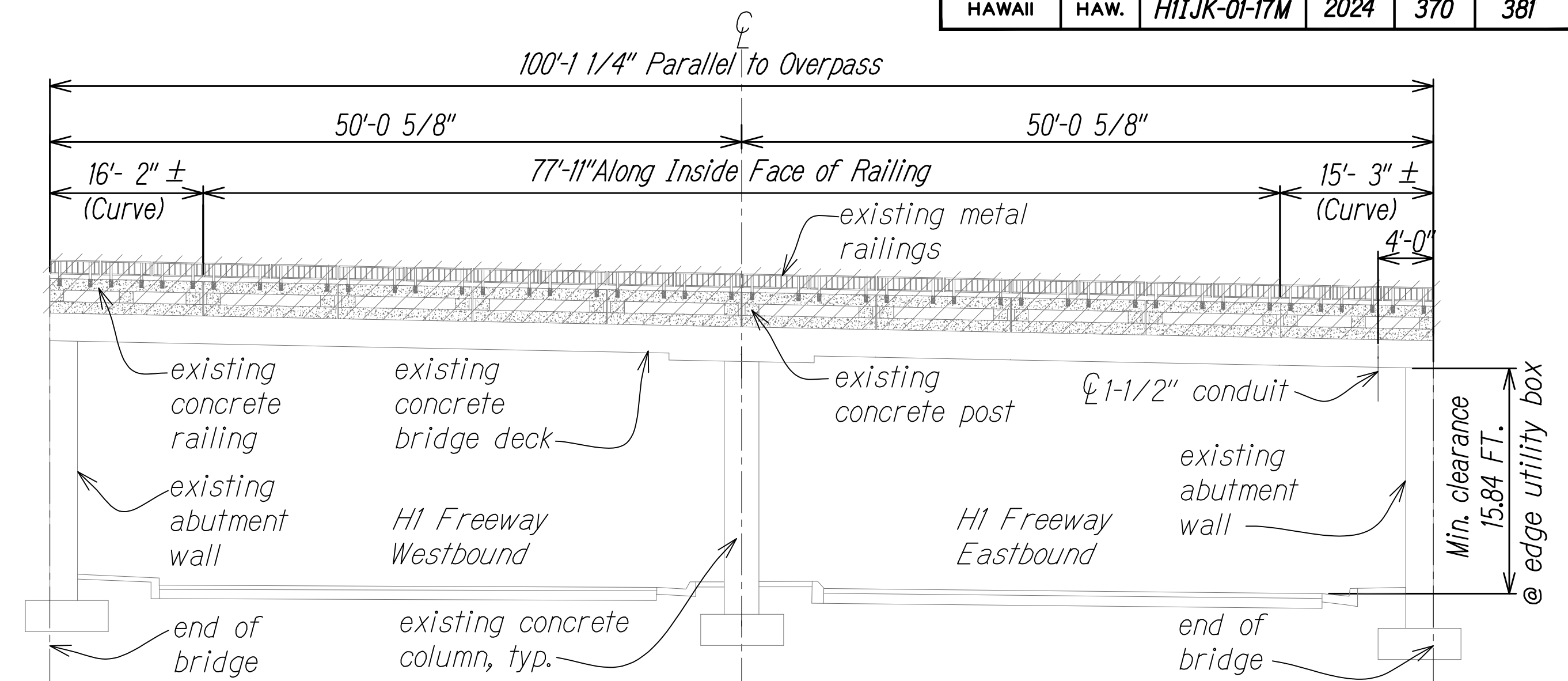
SHEET No. SKE-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	370	381



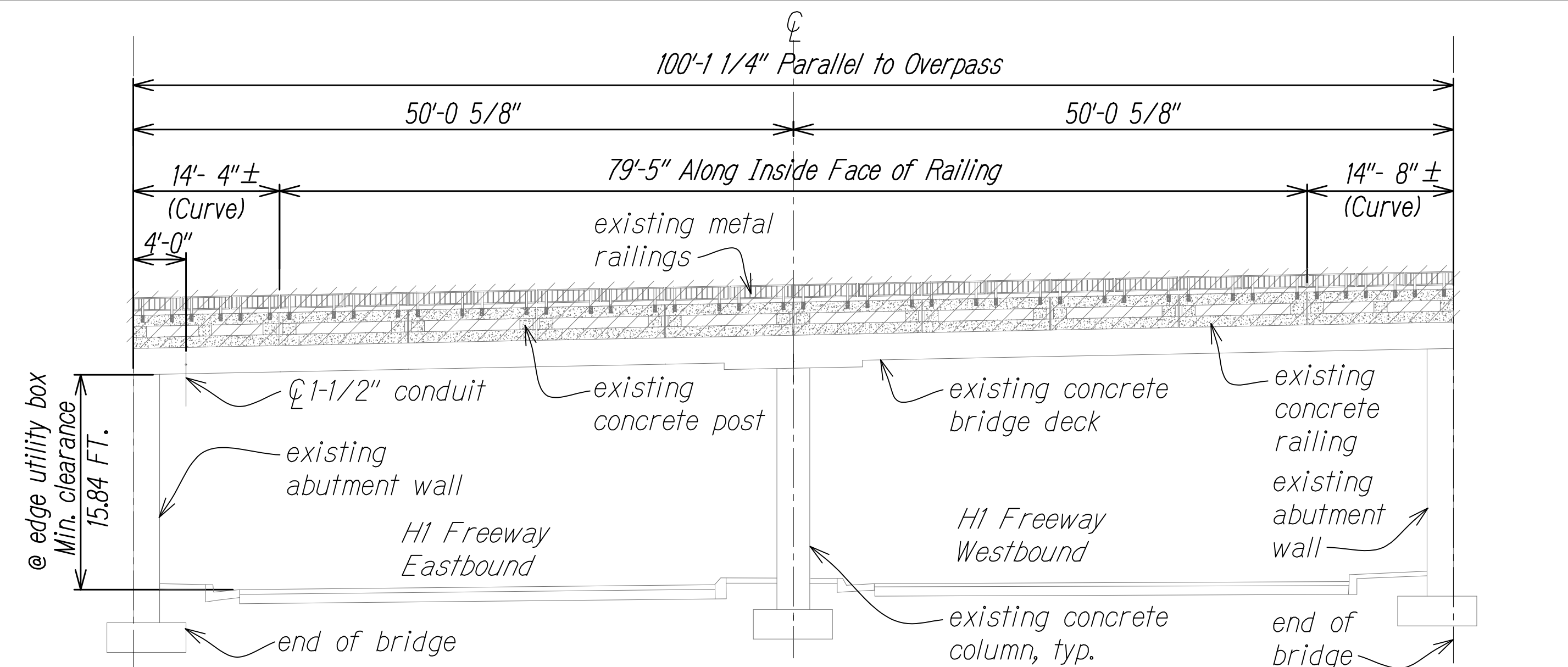
**DEMOLITION PLAN**

Scale: 1/8" = 1'-0"



**LONGITUDINAL SECTION DEMOLITION- DIAMOND HEAD SIDE (LOOKING IN-TO-OUT)**

Scale: 1/8" = 1'-0"

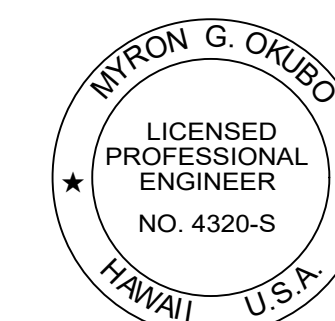


**LONGITUDINAL SECTION DEMOLITION- EWA SIDE (LOOKING IN TO OUT)**

Scale: 1/8" = 1'-0"

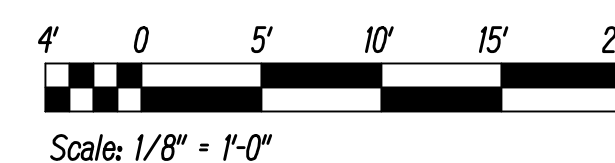
**NOTES:**

- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
- Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc



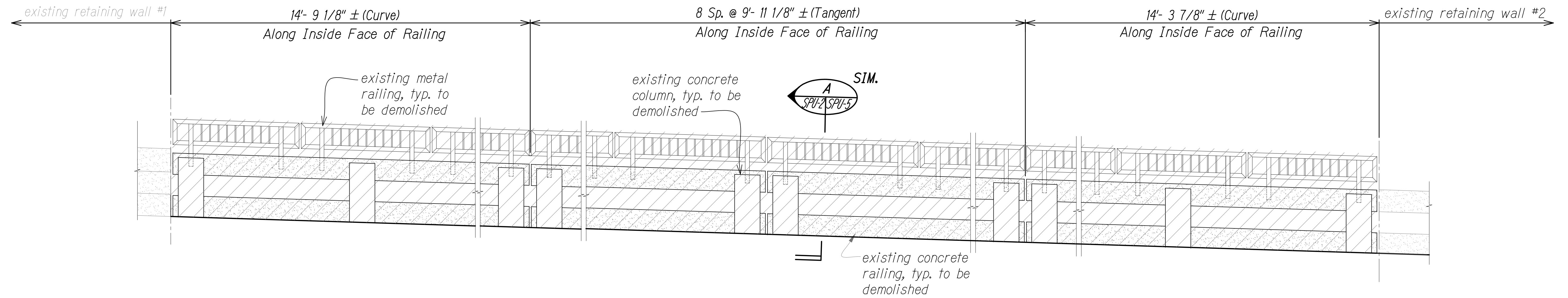
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: Myron Okubo  
 EXPIRATION DATE OF THE LICENSE: 04/30/26



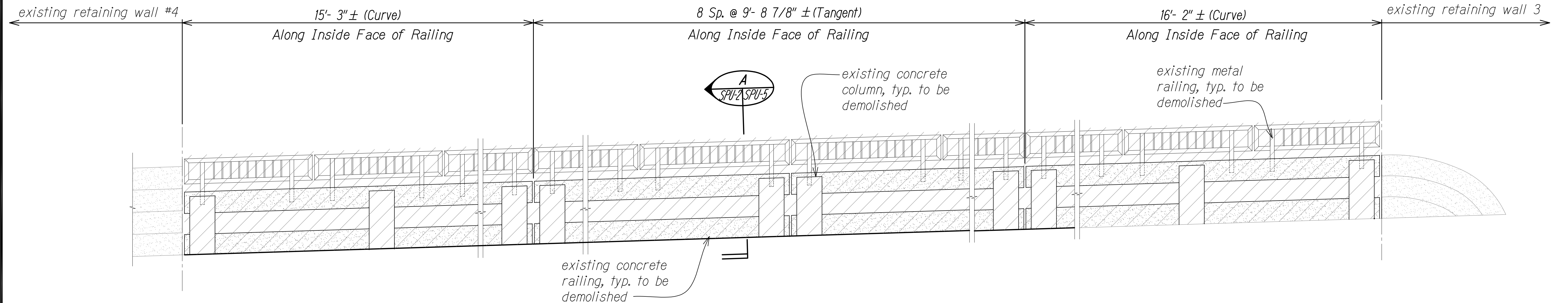
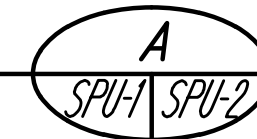
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**PUNAHOU STREET OVERPASS  
 RAILING DEMOLITION PLAN**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M  
 Scale: AS NOTED Date: JUNE, 2020  
 SHEET No. SPU-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	371	381



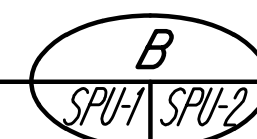
**EWA SIDE RAILING ELEVATION- DEMOLITION (LOOKING OUT-TO-IN)**

Scale: 1/2" = 1'-0"



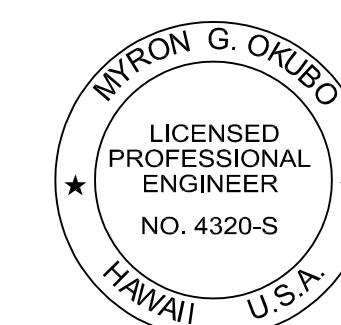
**DIAMOND HEAD SIDE RAILING ELEVATION- DEMOLITION (LOOKING OUT-TO-IN)**

Scale: 1/2" = 1'-0"



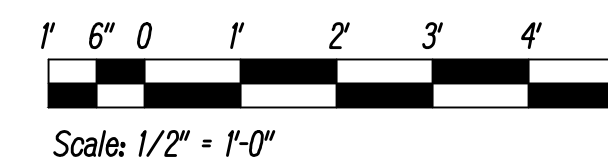
**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc



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Signature: Myron Okubo  
Date: 04/30/26  
EXPIRATION DATE OF THE LICENSE



Scale: 1/2" = 1'-0"

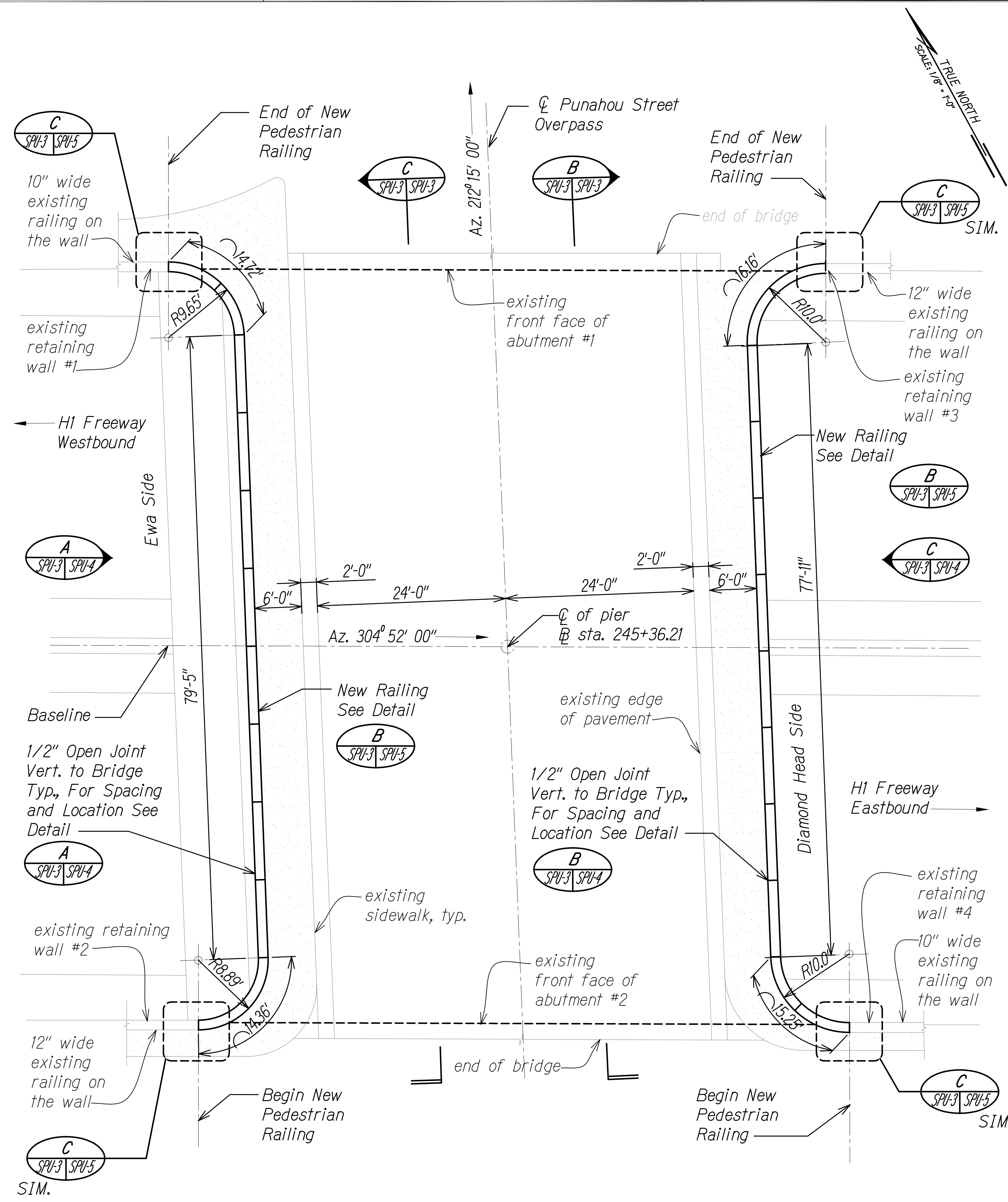
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PUNAHOU STREET OVERPASS  
RAILING ELEVATION - DEMOLITION**

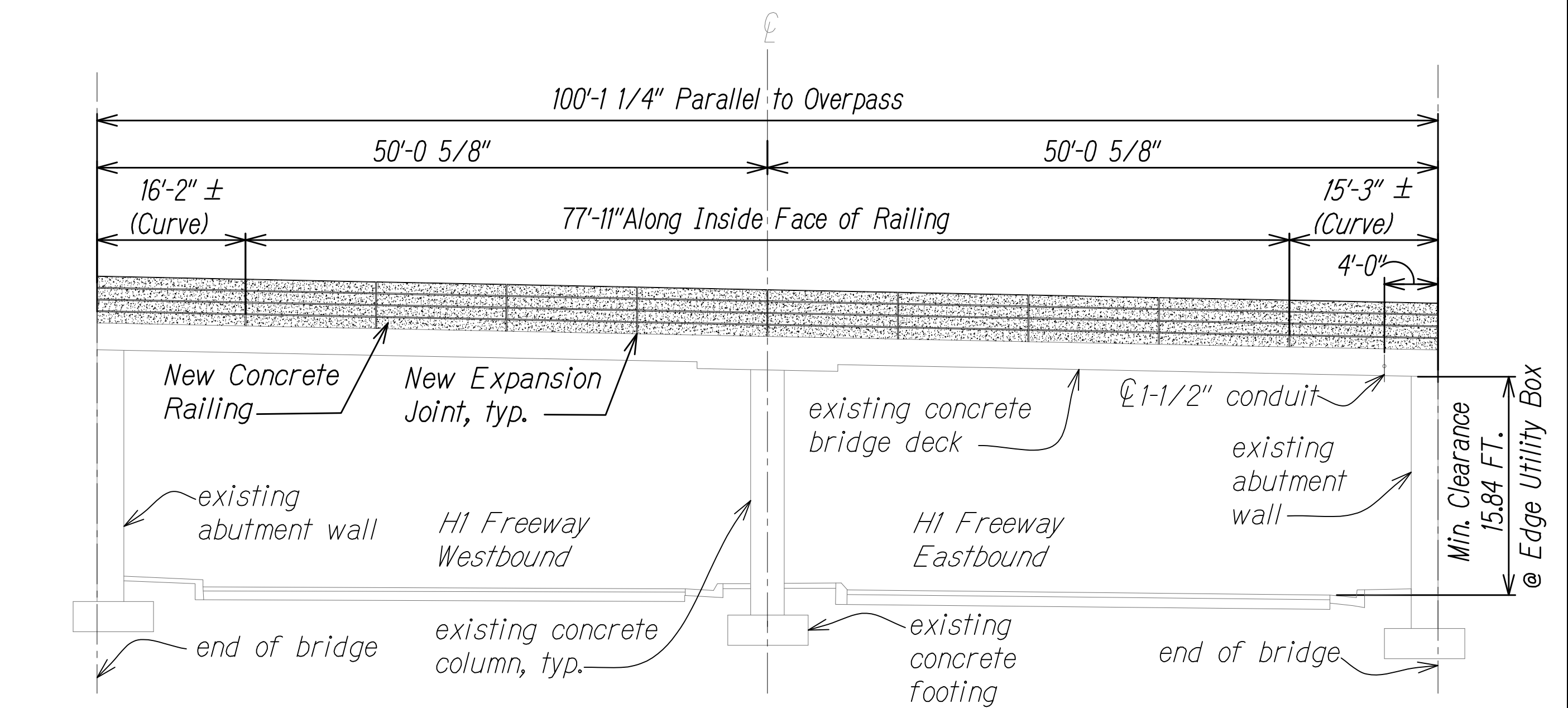
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SPU-2 OF 27 SHEETS

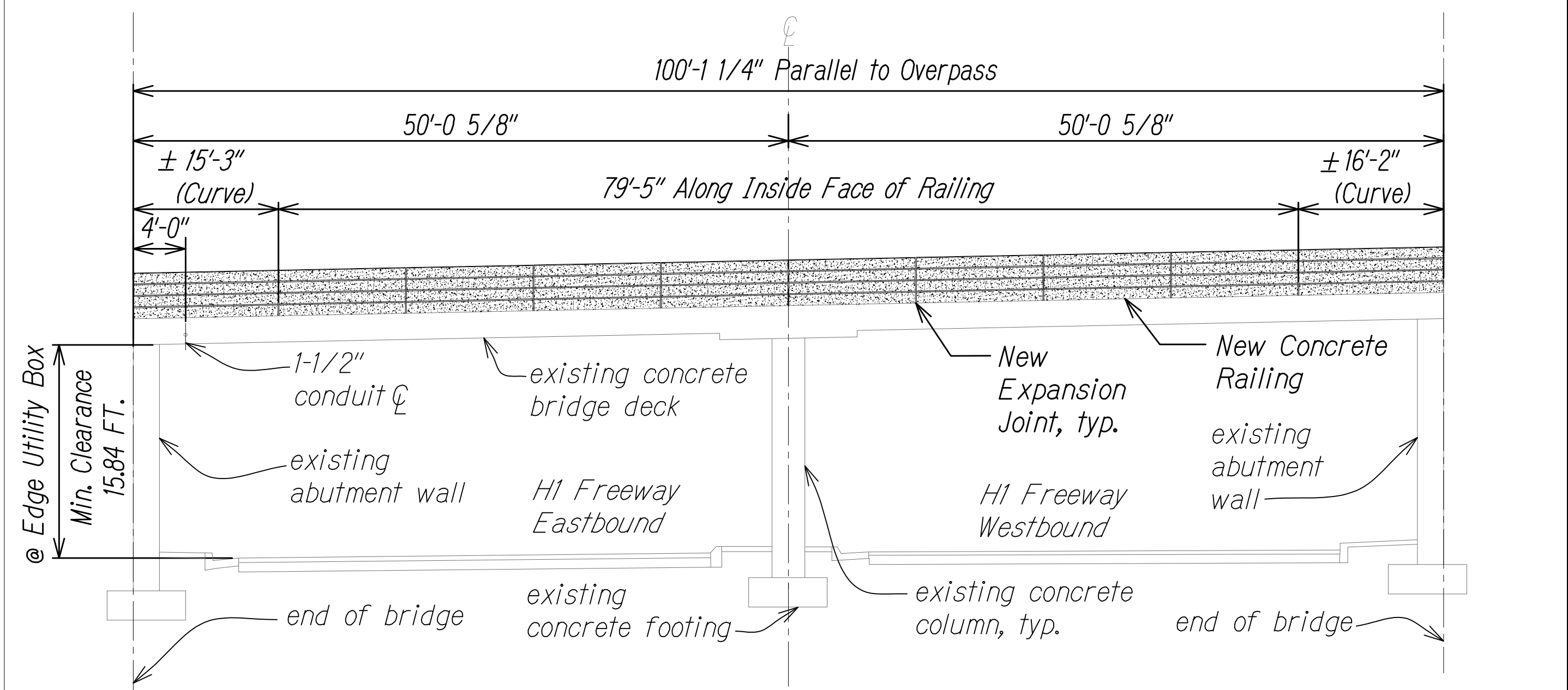
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	372	381



**RENOVATION PLAN**  
Scale: 1/8" = 1'-0"

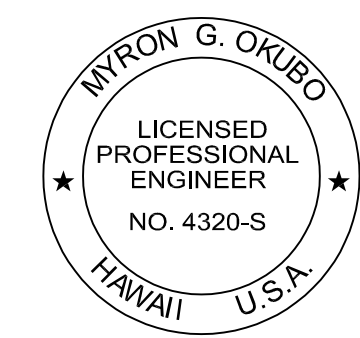


**LONGITUDINAL SECTION RENOVATION-DIAMOND HEAD SIDE (LOOKING IN-TO-OUT)**  
Scale: 1/8" = 1'-0"

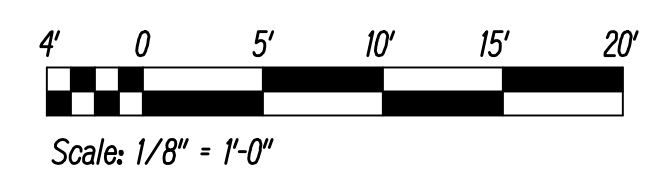


**LONGITUDINAL SECTION RENOVATION-EWA SIDE (LOOKING IN-TO-OUT)**  
Scale: 1/8" = 1'-0"

- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.

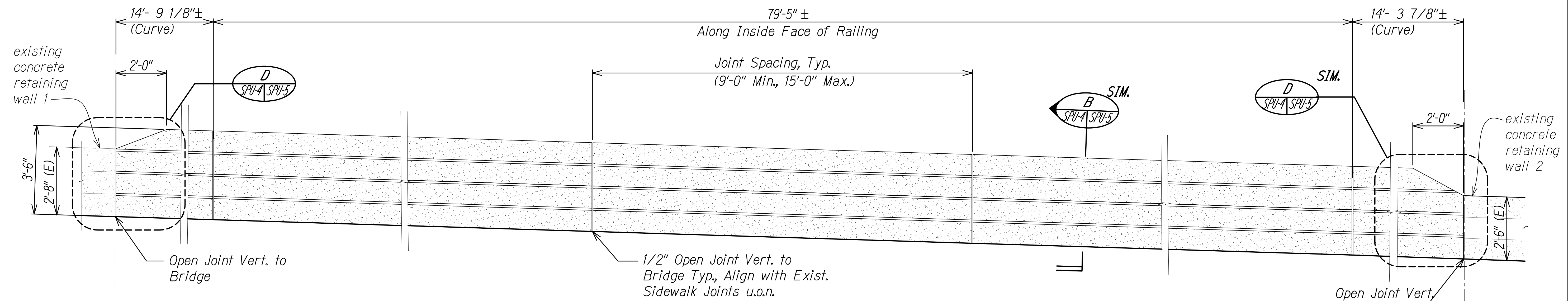


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 Myron Okubo  
 SIGNATURE      04/30/26  
 EXPIRATION DATE OF THE LICENSE

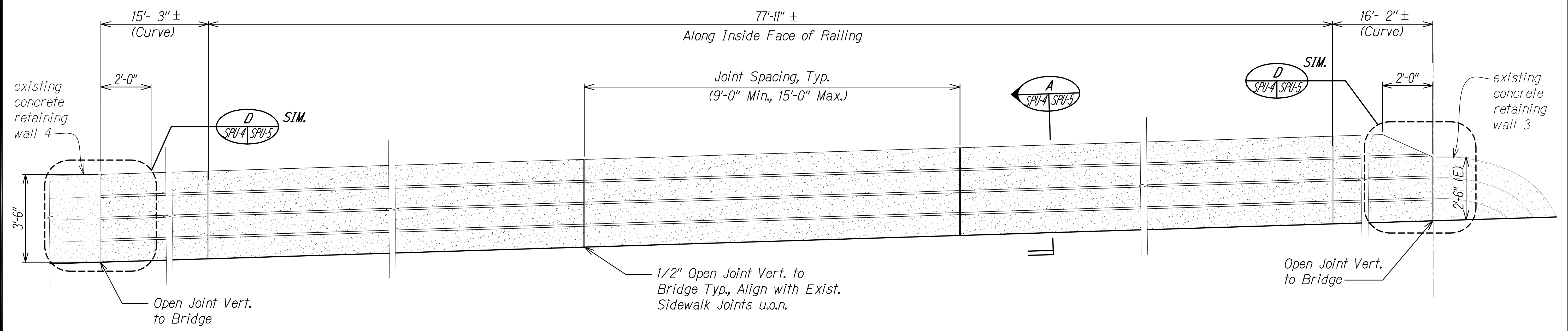
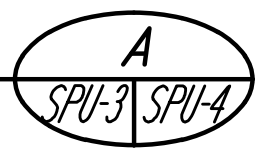


STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**PUNAHOU STREET OVERPASS  
 RAILING RENOVATION PLAN**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M  
 Scale: AS NOTED      Date: JUNE, 2020  
 SHEET No. SPU-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	373	381



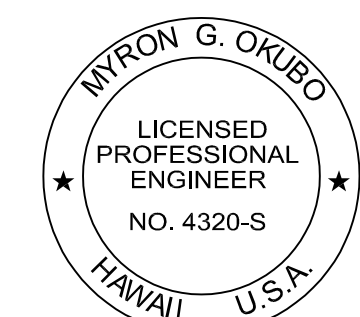
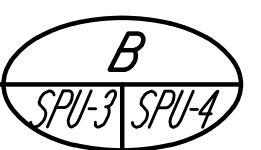
**EWA SIDE RAILING ELEVATION- RENOVATION**  
Scale: 1/2" = 1'-0"



**NOTES:**

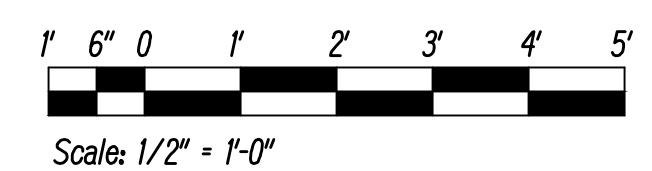
1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

**KAIMUKI SIDE RAILING ELEVATION- RENOVATION**  
Scale: 1/2" = 1'-0"



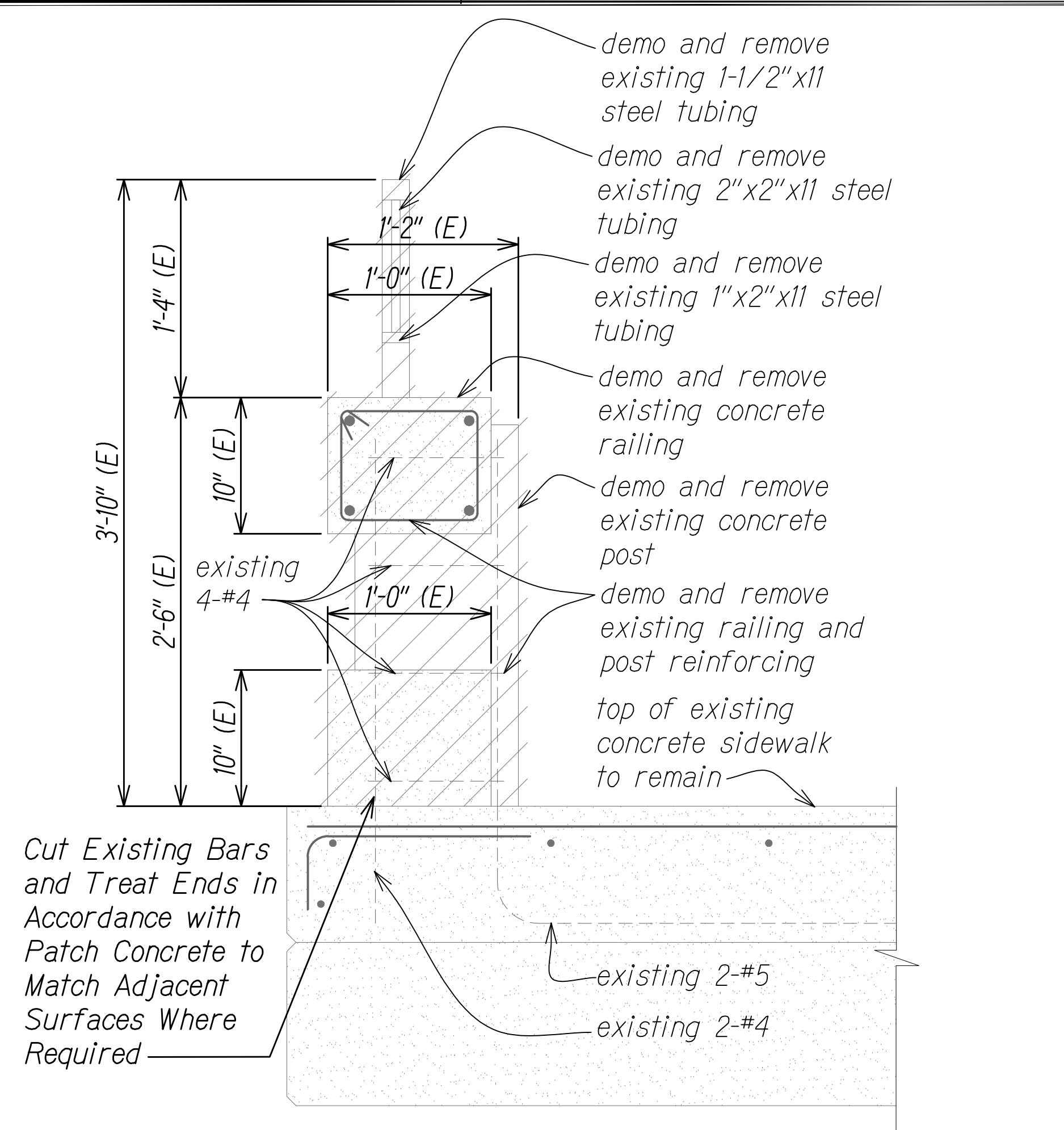
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE: Myron Okubo  
EXPIRATION DATE OF THE LICENSE: 04/30/26

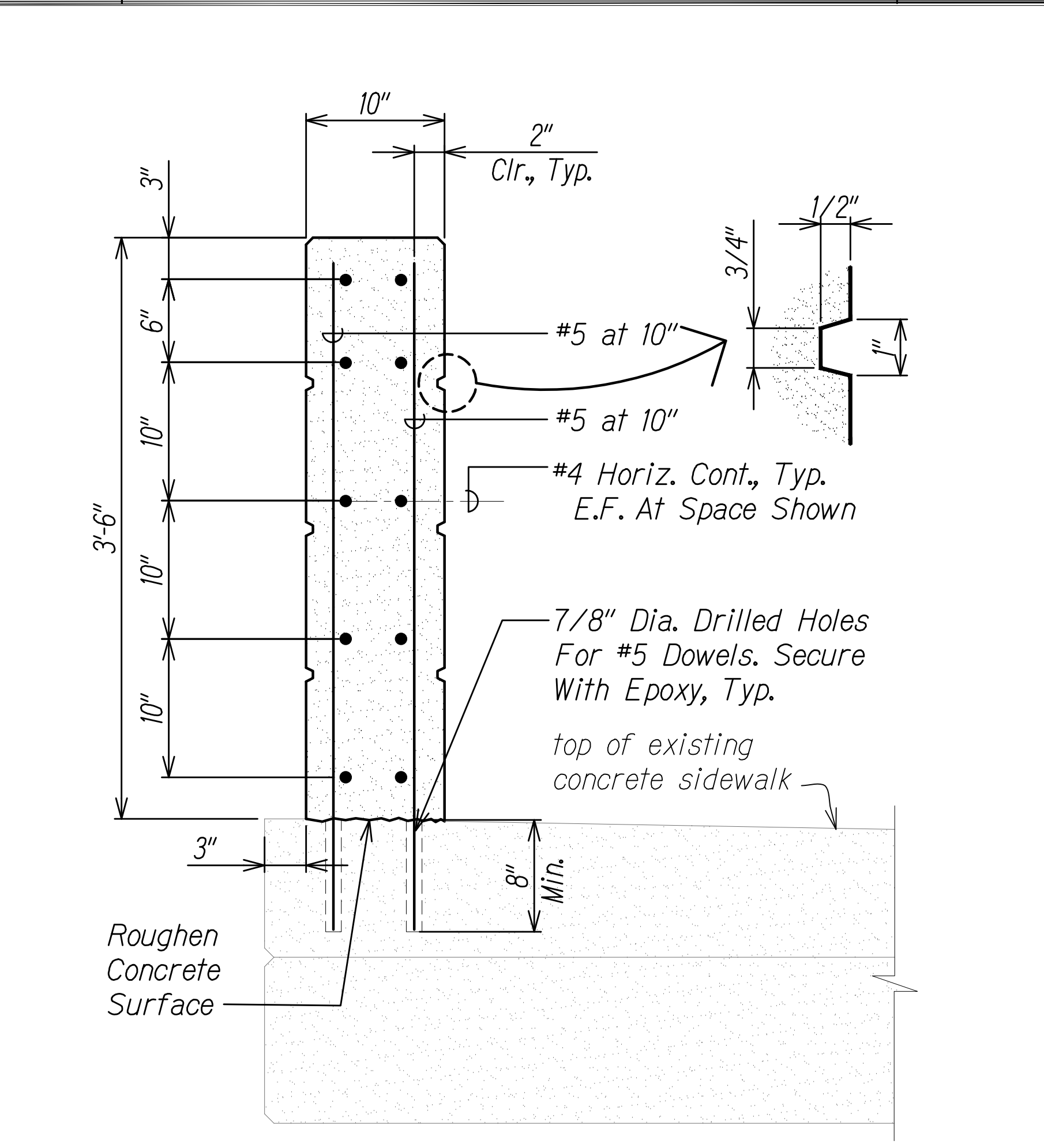


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PUNAHOU STREET OVERPASS  
RAILING ELEVATION- RENO.**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M  
Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SPU-4 OF 27 SHEETS

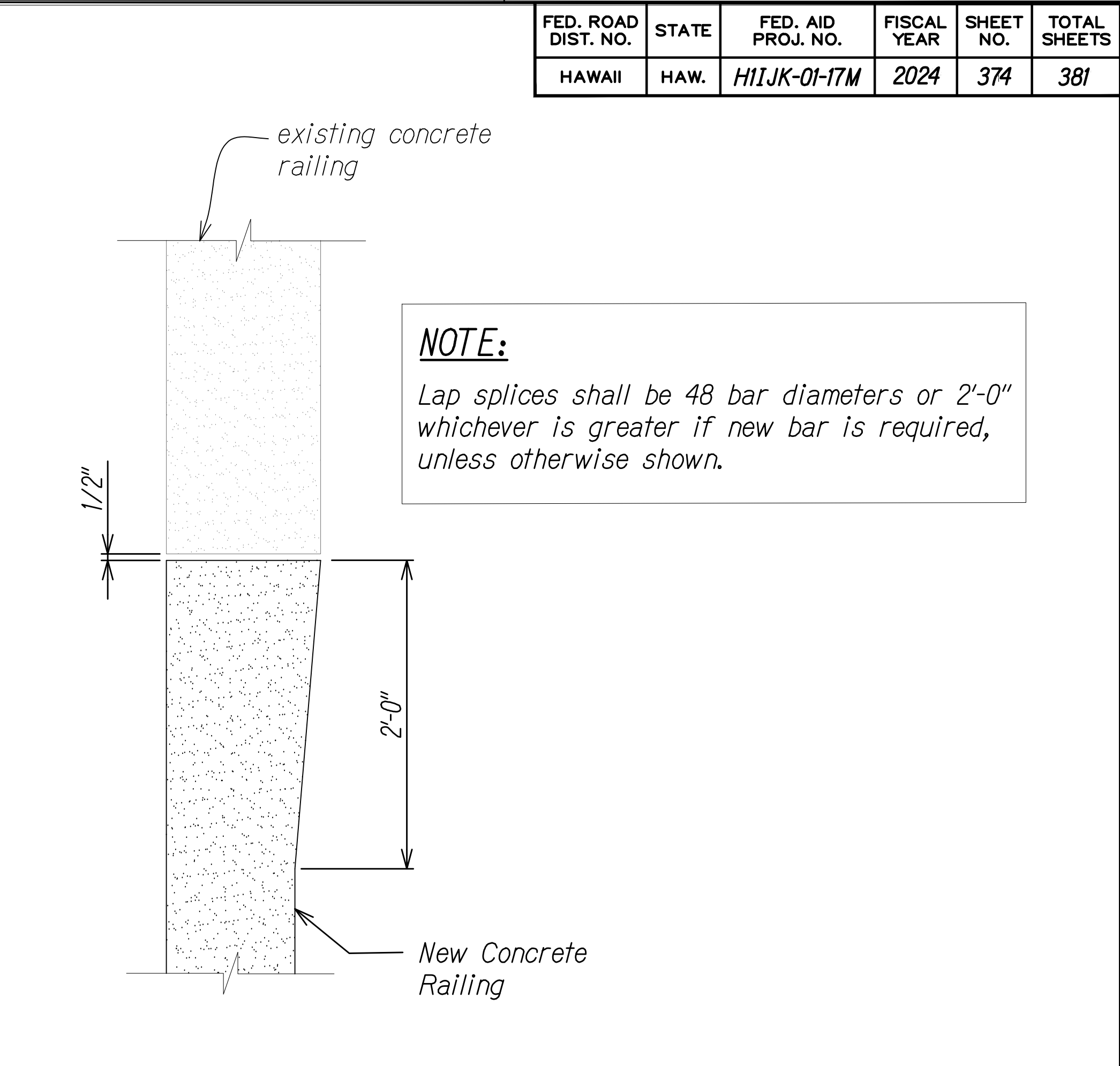
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	374	381



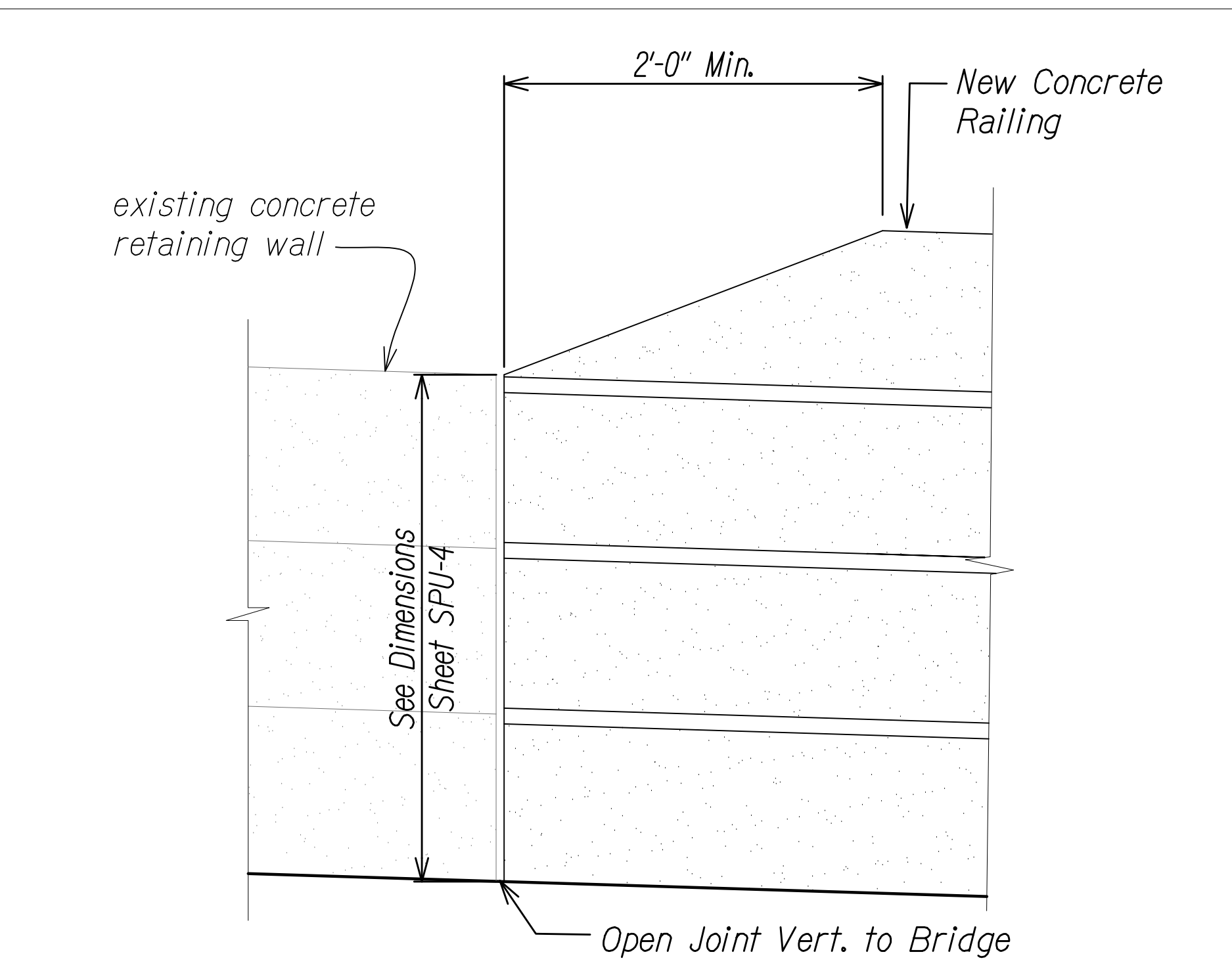
**TYPICAL DEMOLISHED RAILING SECTION** A  
 Scale: 1 1/2" = 1'-0"  
 SPU-2 SPU-5



**TYPICAL RENOVATED RAILING SECTION** B  
 Scale: 1 1/2" = 1'-0"  
 SPU-4 SPU-5  
 SPU-3 SPU-5

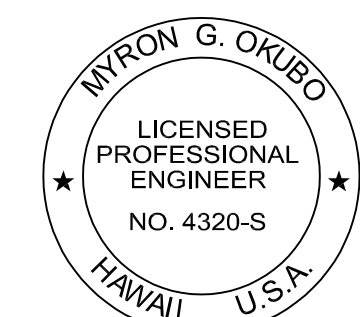
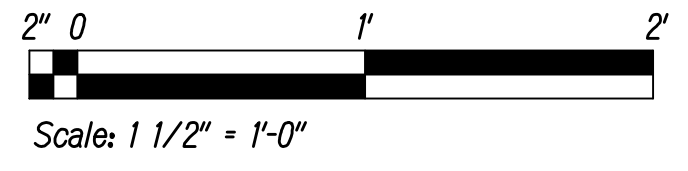


**TYPICAL RAILING TRANSITION-PLAN VIEW** C  
 Scale: 1 1/2" = 1'-0"  
 SPU-3 SPU-5



**TYPICAL RAILING TRANSITION DETAIL** D  
 Scale: 1 1/2" = 1'-0"  
 SPU-4 SPU-5

- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
  - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoad Rails, No Work Over Live Traffic, etc



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 SIGNATURE  
 04/30/26  
 EXPIRATION DATE OF THE LICENSE

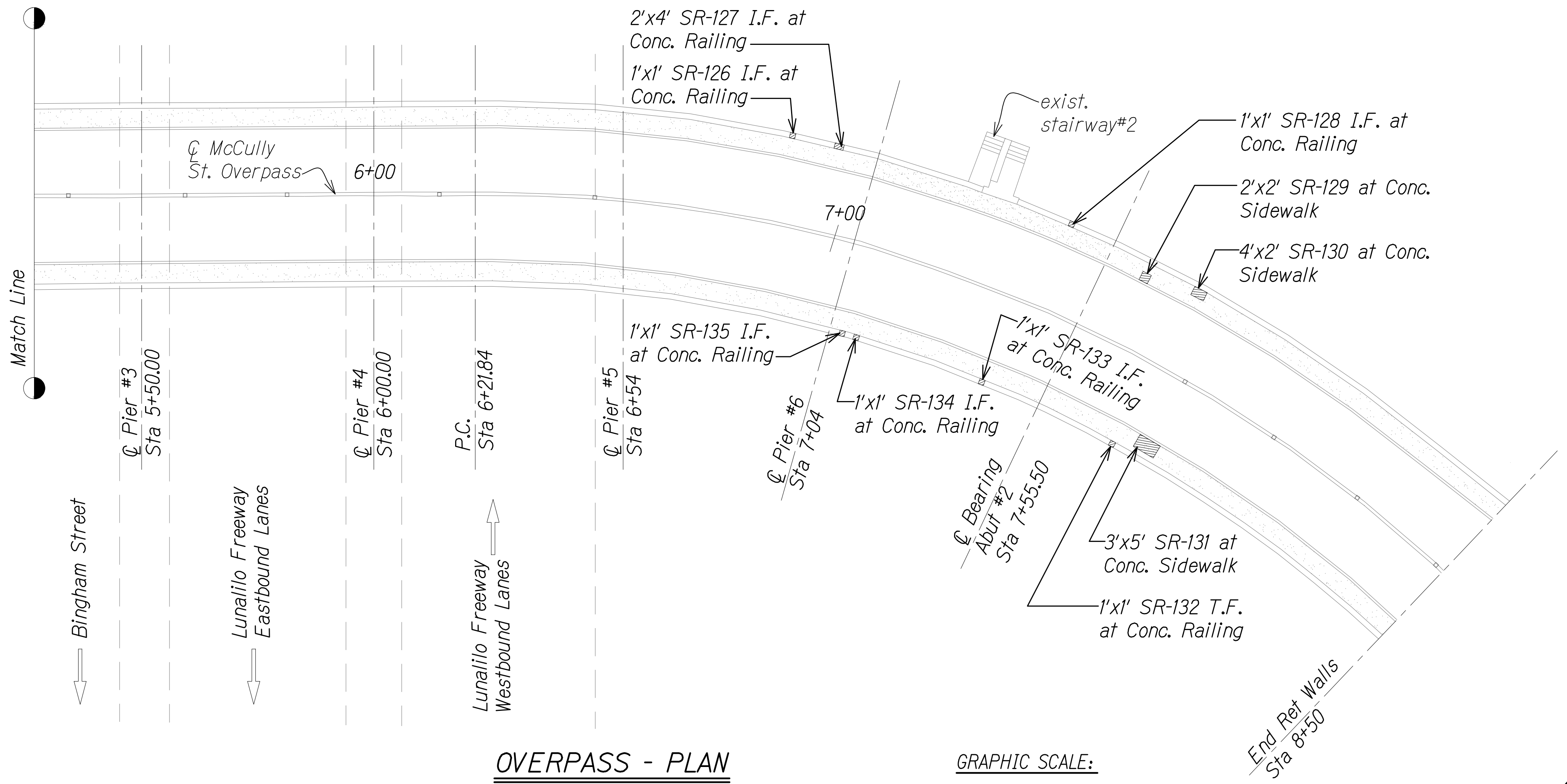
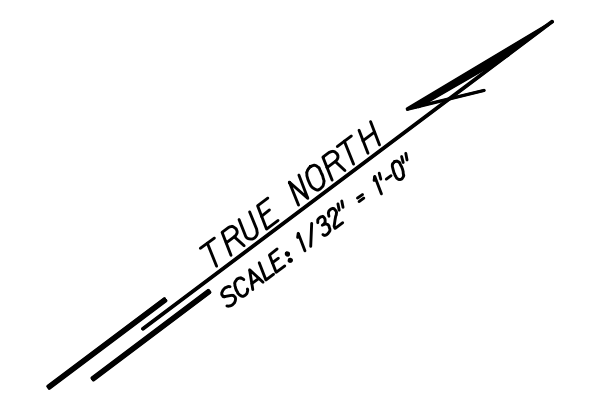
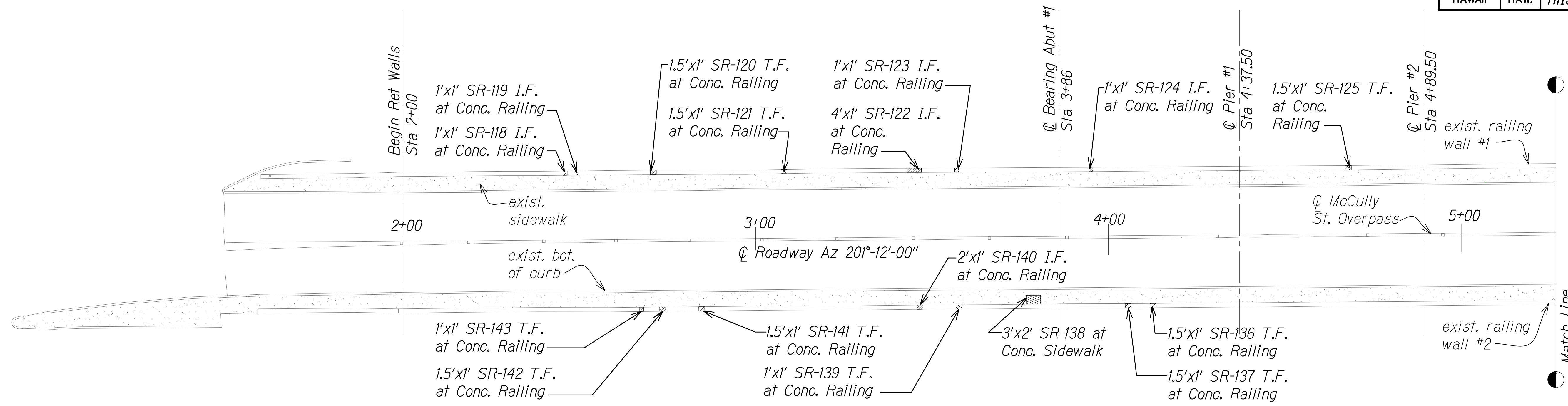
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**PUNAHOU STREET OVERPASS**  
**SECTIONS AND DETAILS**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020  
 SHEET No. SPU-5 OF 27 SHEETS



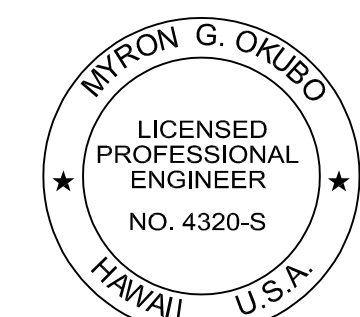
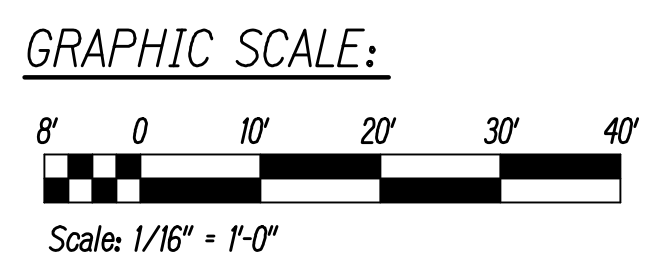
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIIJK-01-17M	2024	375	381



**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. SR-1, SR-2, etc. Denotes Concrete Spall Repair. See Sheets SG-3 and SG-4.
3. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demolded Rails, No Work Over Live Traffic, etc

**OVERPASS - PLAN**  
Scale: 1/16" = 1'-0"



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SIGNATURE: *Myron Okubo* 04/30/26  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

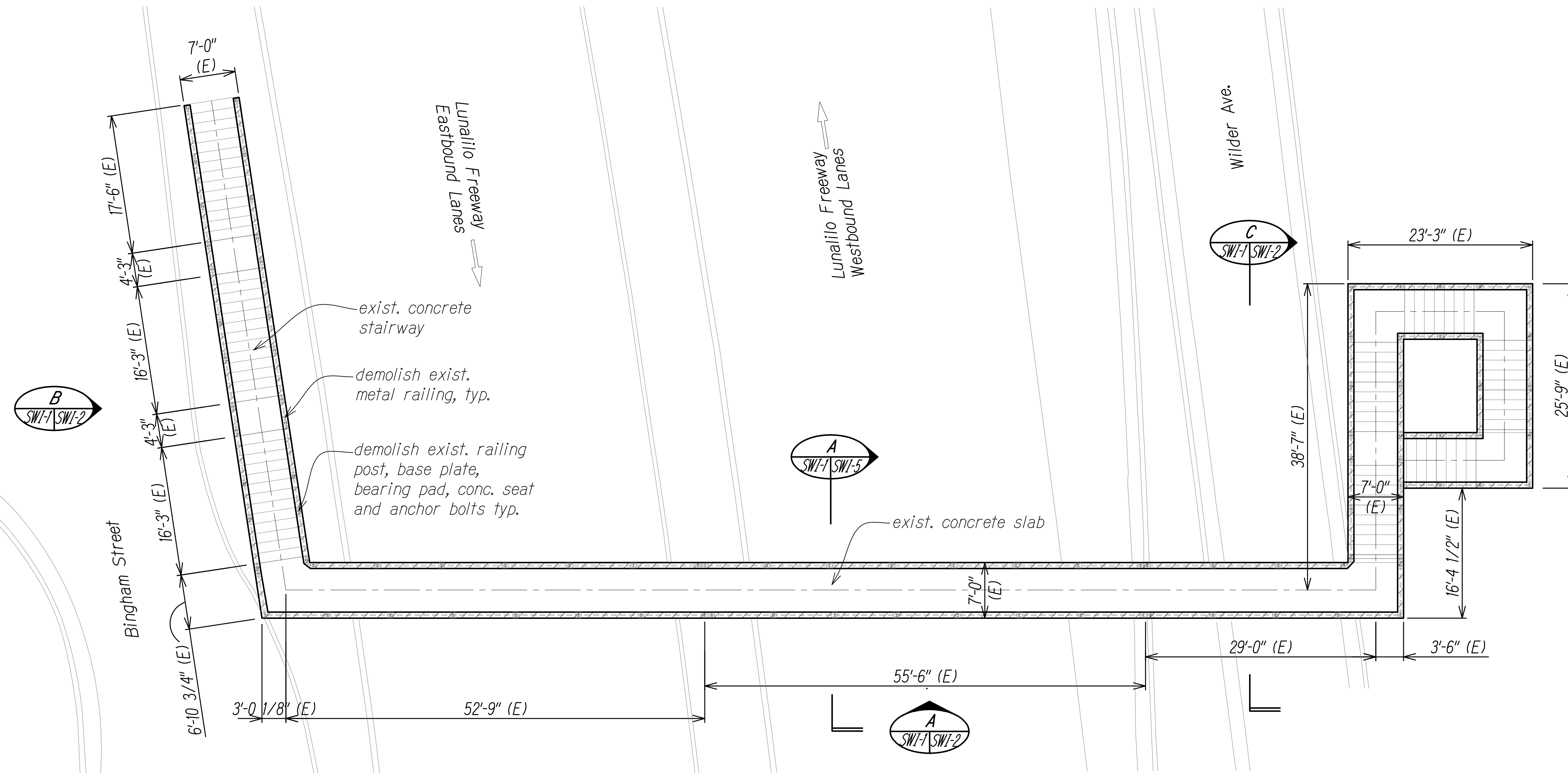
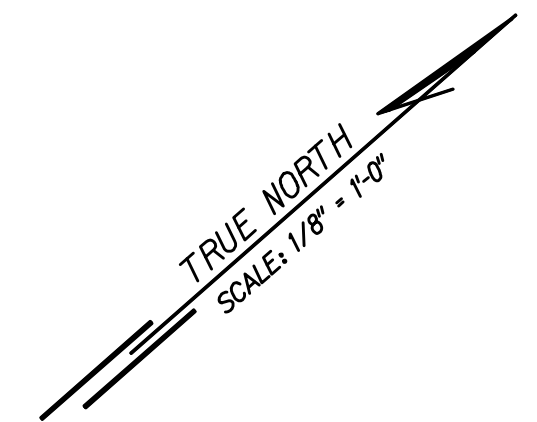
**McCULLY STREET  
OVERPASS - PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. HIIJK-01-17M

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SMC-1 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	376	381



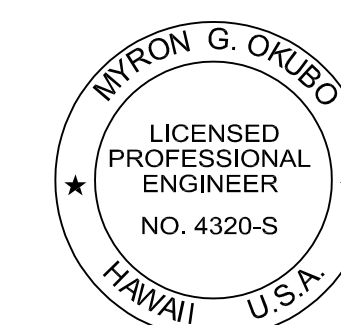
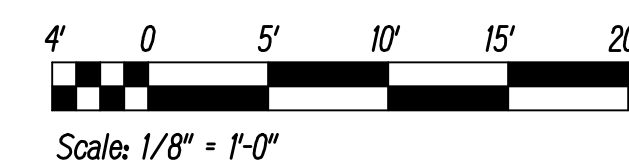
**NOTES:**

1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
2. Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoeed Rails, No Work Over Live Traffic, etc

**DEMOLITION PLAN**

Scale: 1/8" = 1'-0"

GRAPHIC SCALE:



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SIGNATURE: *Myron Okubo* 04/30/26  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

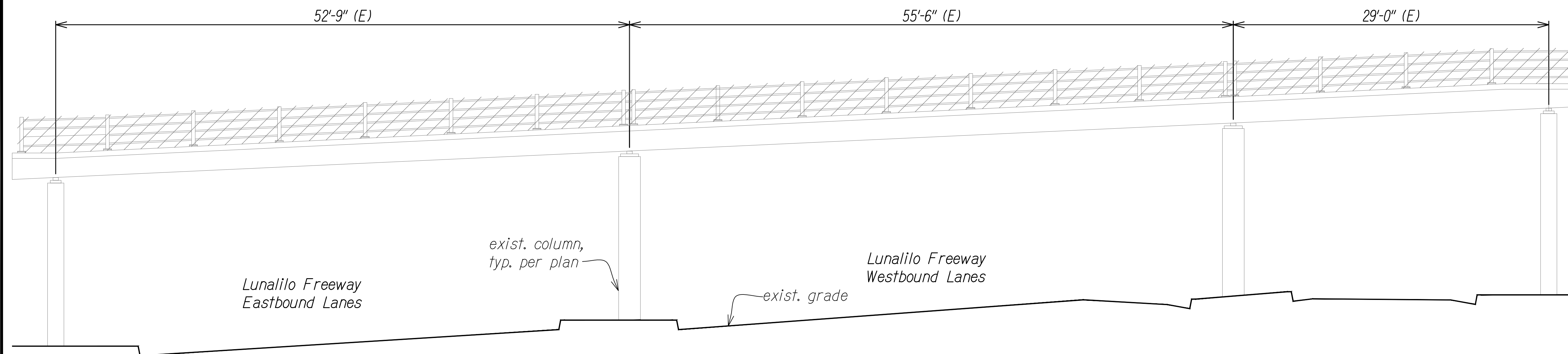
**WILDER AVENUE PEDESTRIAN  
OVERCROSSING DEMOLITION PLAN**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

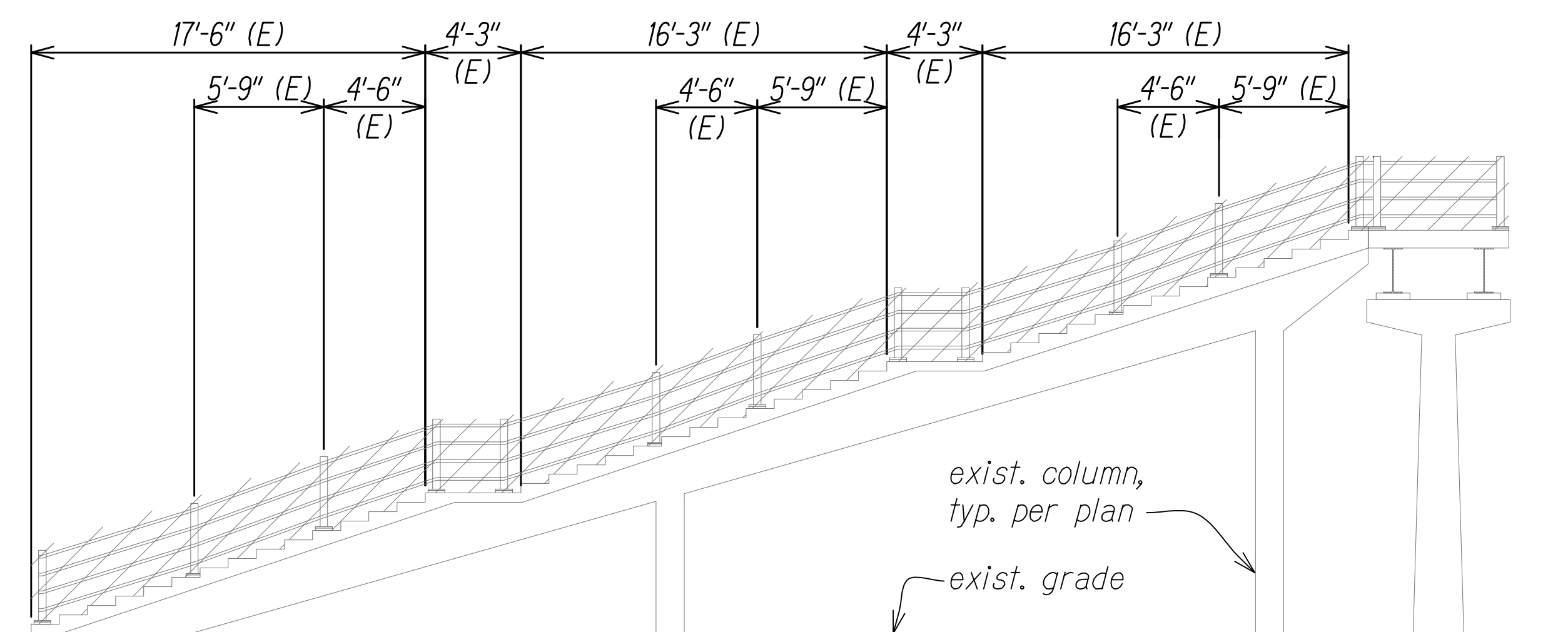
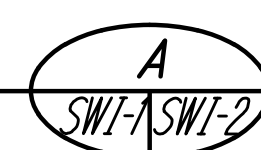
Scale: AS NOTED Date: JUNE, 2020

SHEET No. SWI-1 OF 27 SHEETS

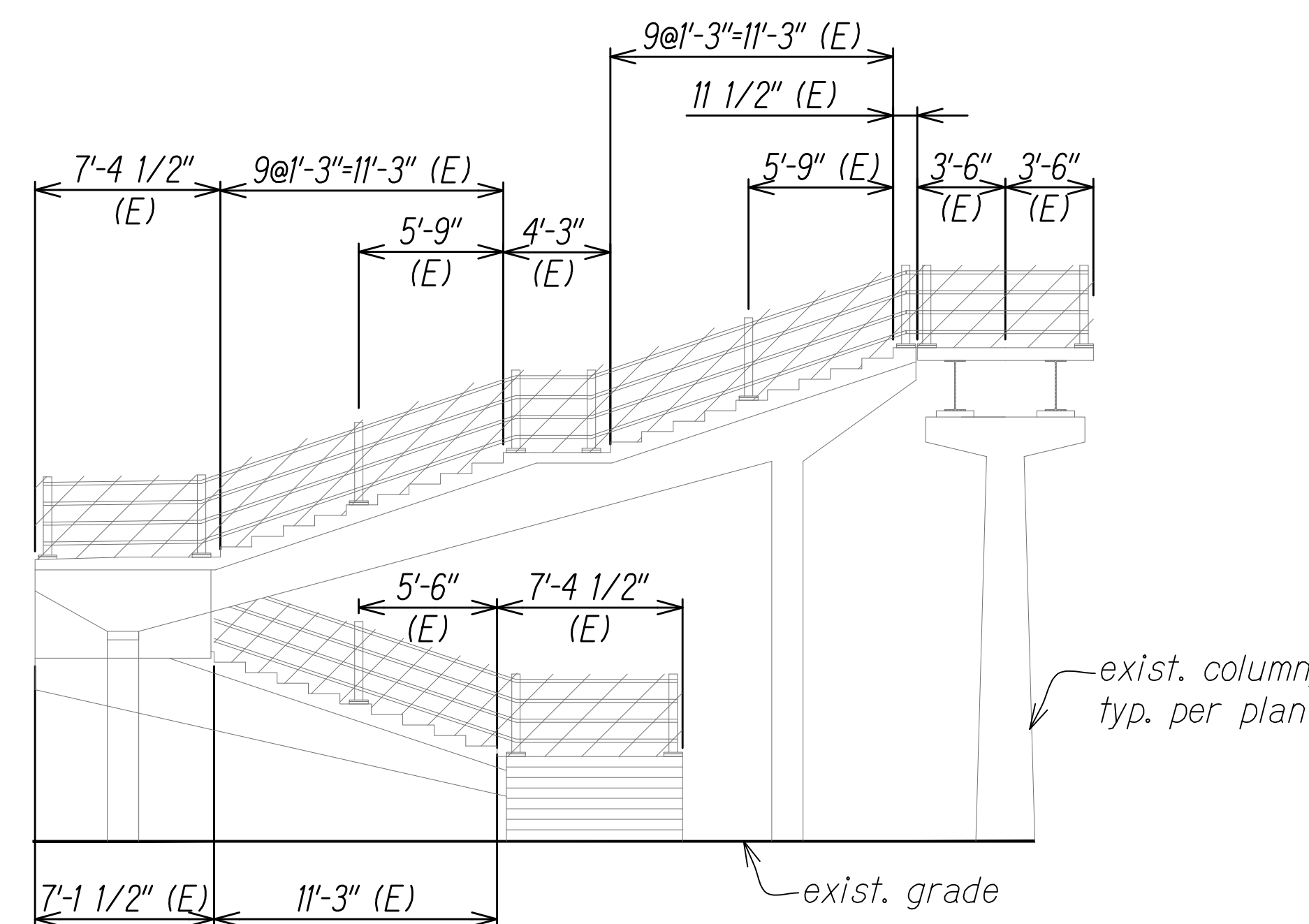
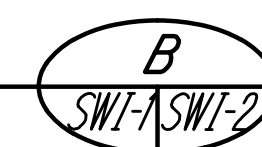
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	377	381



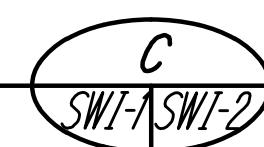
**LONGITUDINAL SECTION "A" - RAILING DEMOLITION**  
Scale: 3/16" = 1'-0"



**ELEVATION "B" - RAILING DEMOLITION**  
Scale: 3/16" = 1'-0"

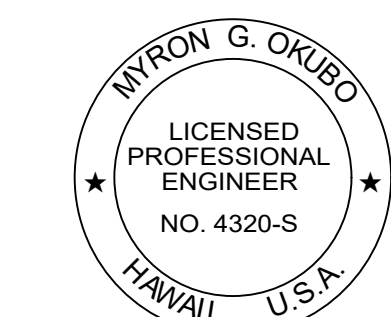
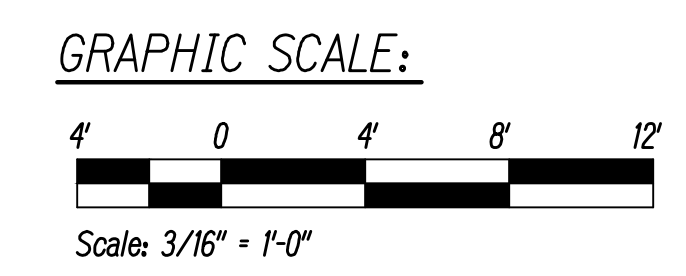


**ELEVATION "C" - RAILING DEMOLITION**  
Scale: 3/16" = 1'-0"



**NOTES:**

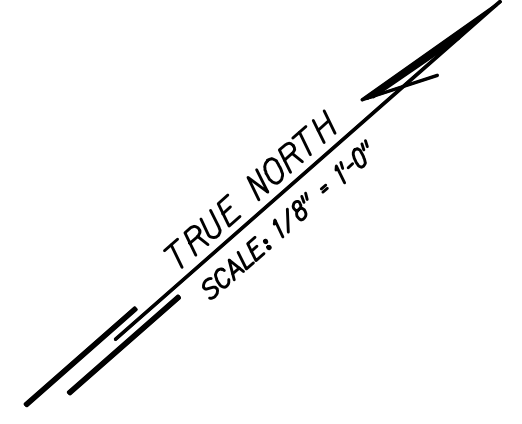
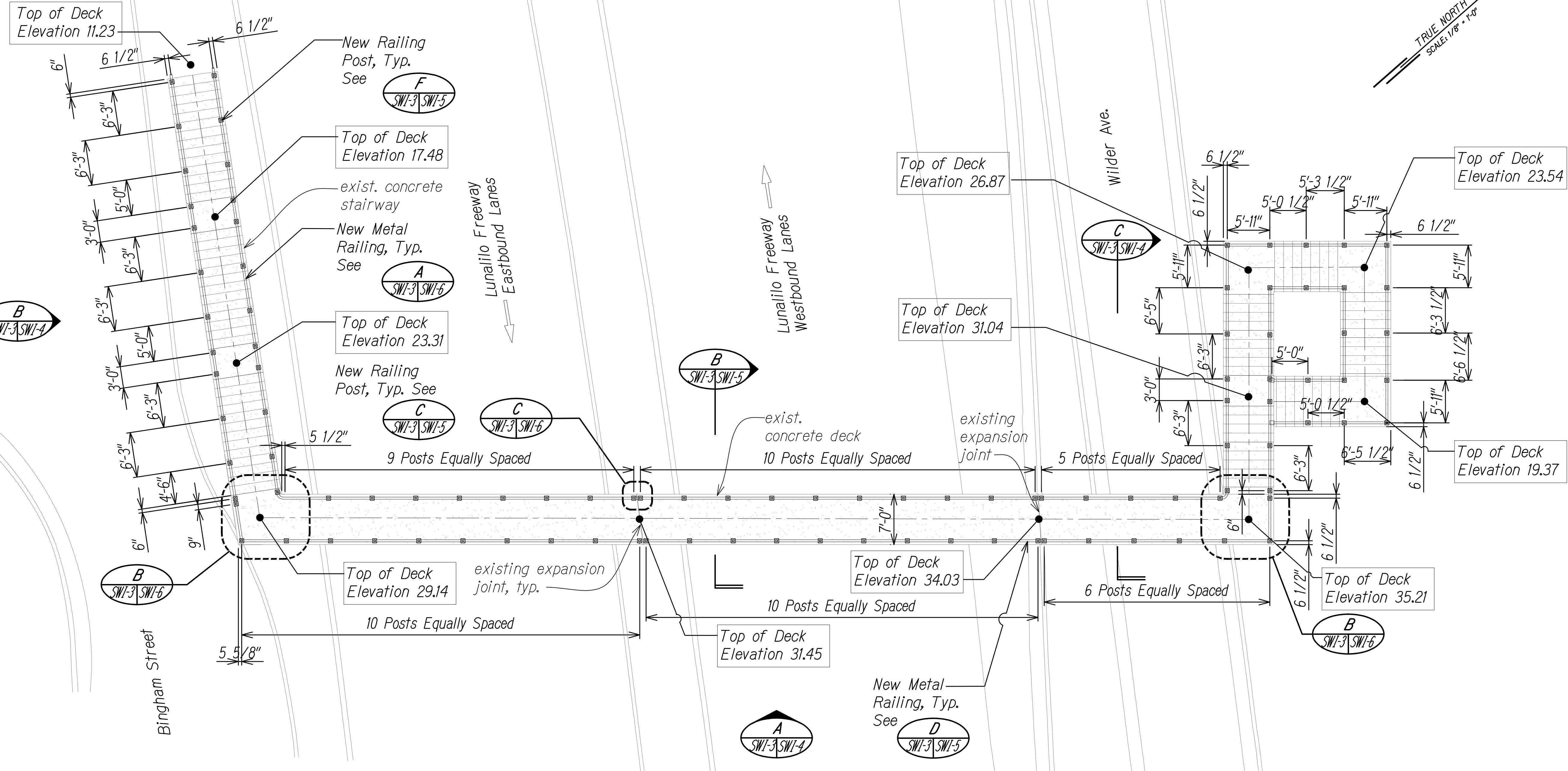
1. For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
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SIGNATURE EXPIRATION DATE OF THE LICENSE

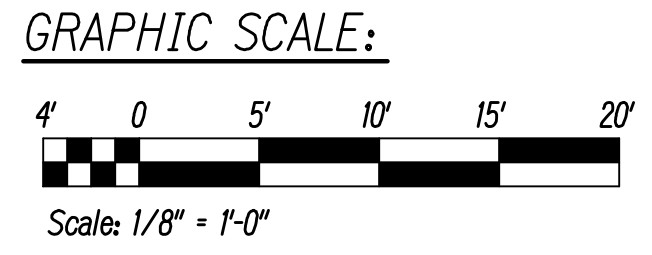
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**WILDER AVENUE PEDESTRIAN OVERCROSSING- RAILING DEMOLITION**  
INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M  
Scale: AS NOTED Date: JUNE, 2020  
SHEET No. SWI-2 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	378	381



**RENOVATION PLAN**  
Scale: 1/8" = 1'-0"

- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
  - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoed Rails, No Work Over Live Traffic, etc



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WILDER AVENUE PEDESTRIAN  
OVERCROSSING RENOVATION PLAN**

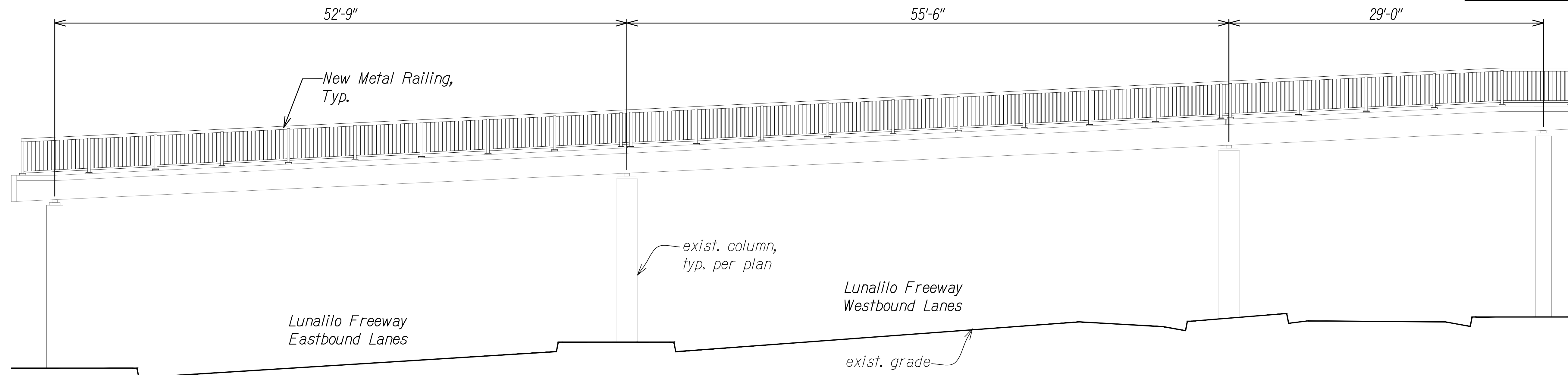
*INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange*

Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

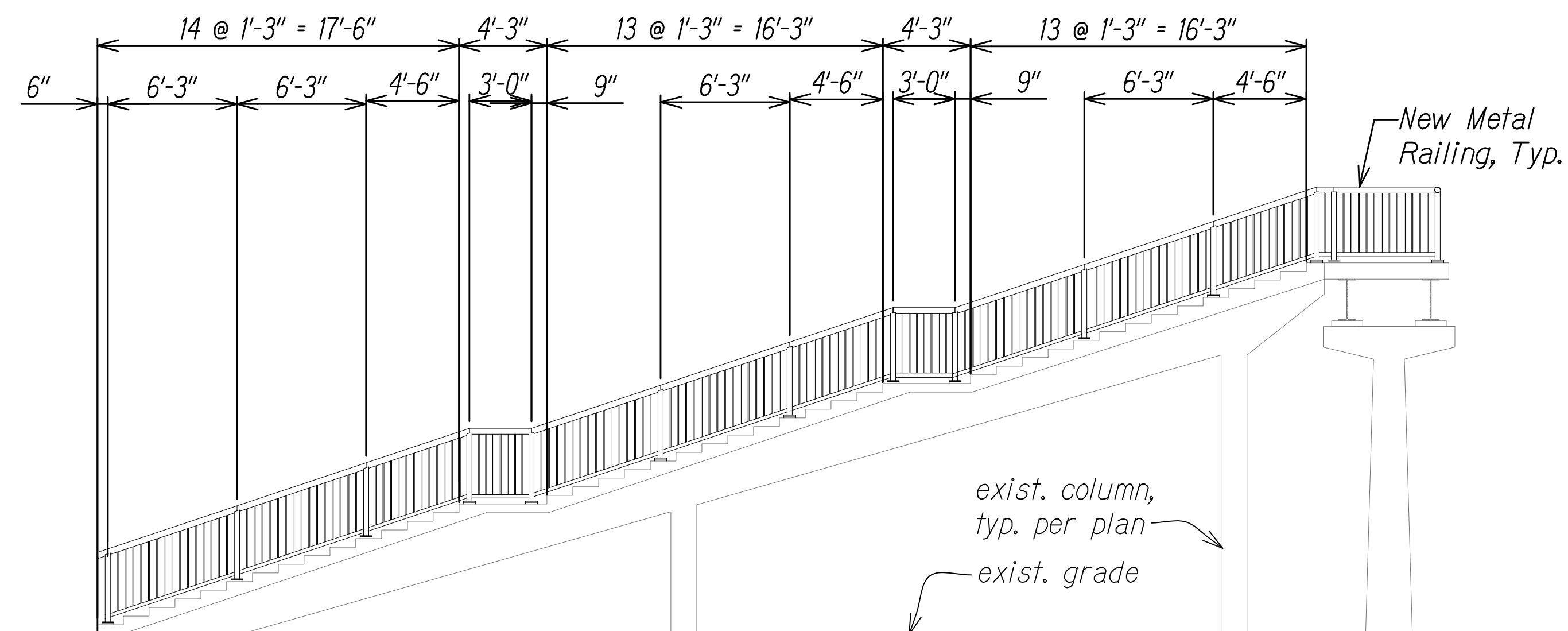
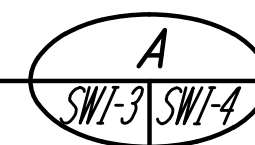
SHEET No. SWI-3 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIIJK-01-17M	2024	379	381



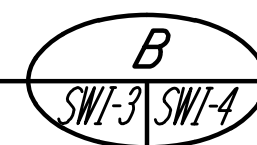
**LONGITUDINAL SECTION "A" - RAILING RENOVATION**

Scale: 3/16" = 1'-0"



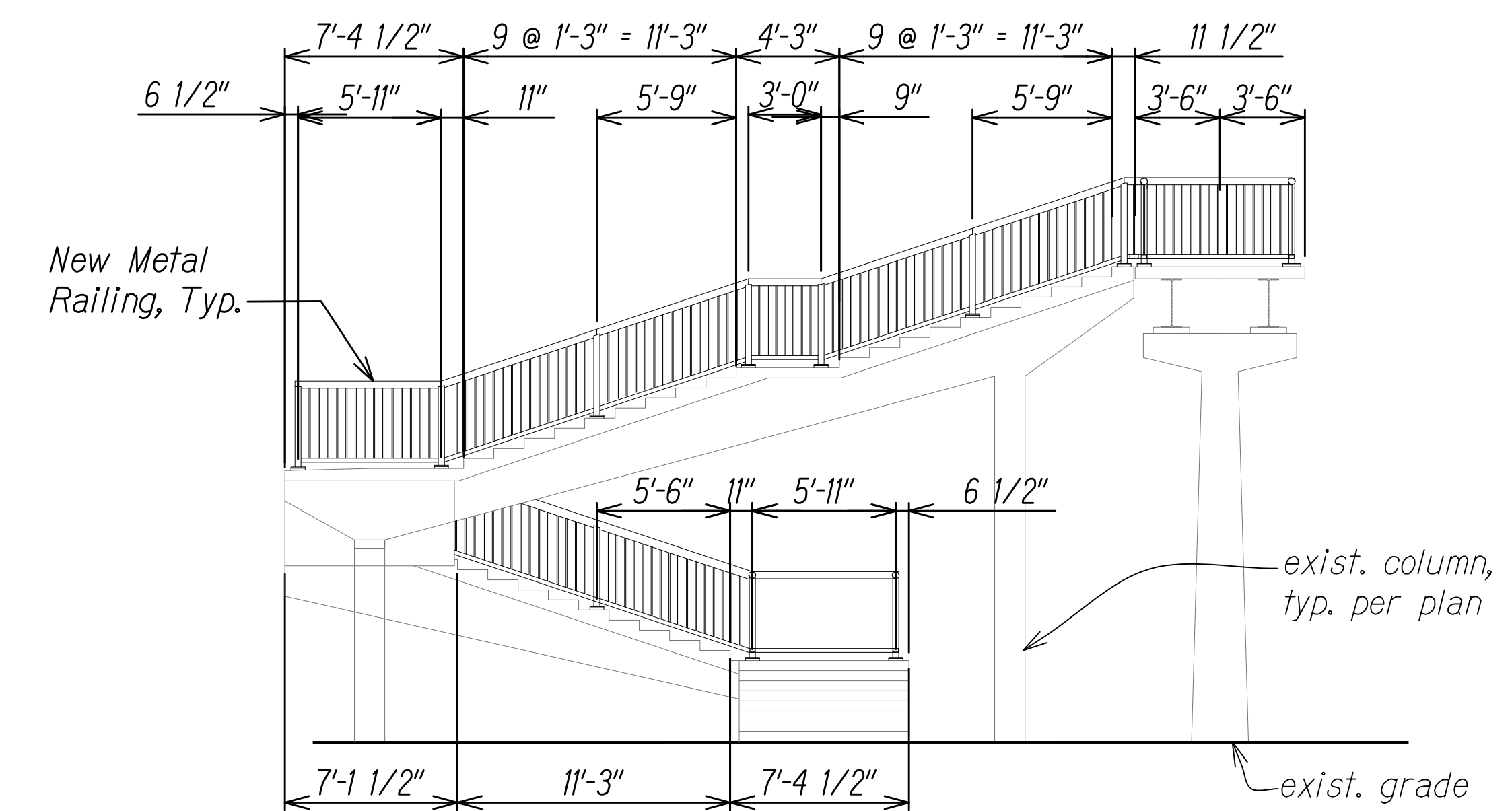
**ELEVATION "B" - RAILING RENOVATION**

Scale: 3/16" = 1'-0"



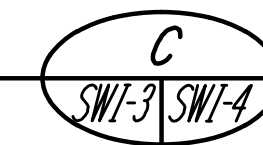
**NOTES:**

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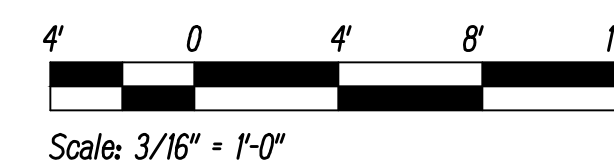


**ELEVATION "C" - RAILING RENOVATION**

Scale: 3/16" = 1'-0"



**GRAPHIC SCALE:**



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Signature: Myron Okubo  
 04/30/26  
 EXPIRATION DATE OF THE LICENSE

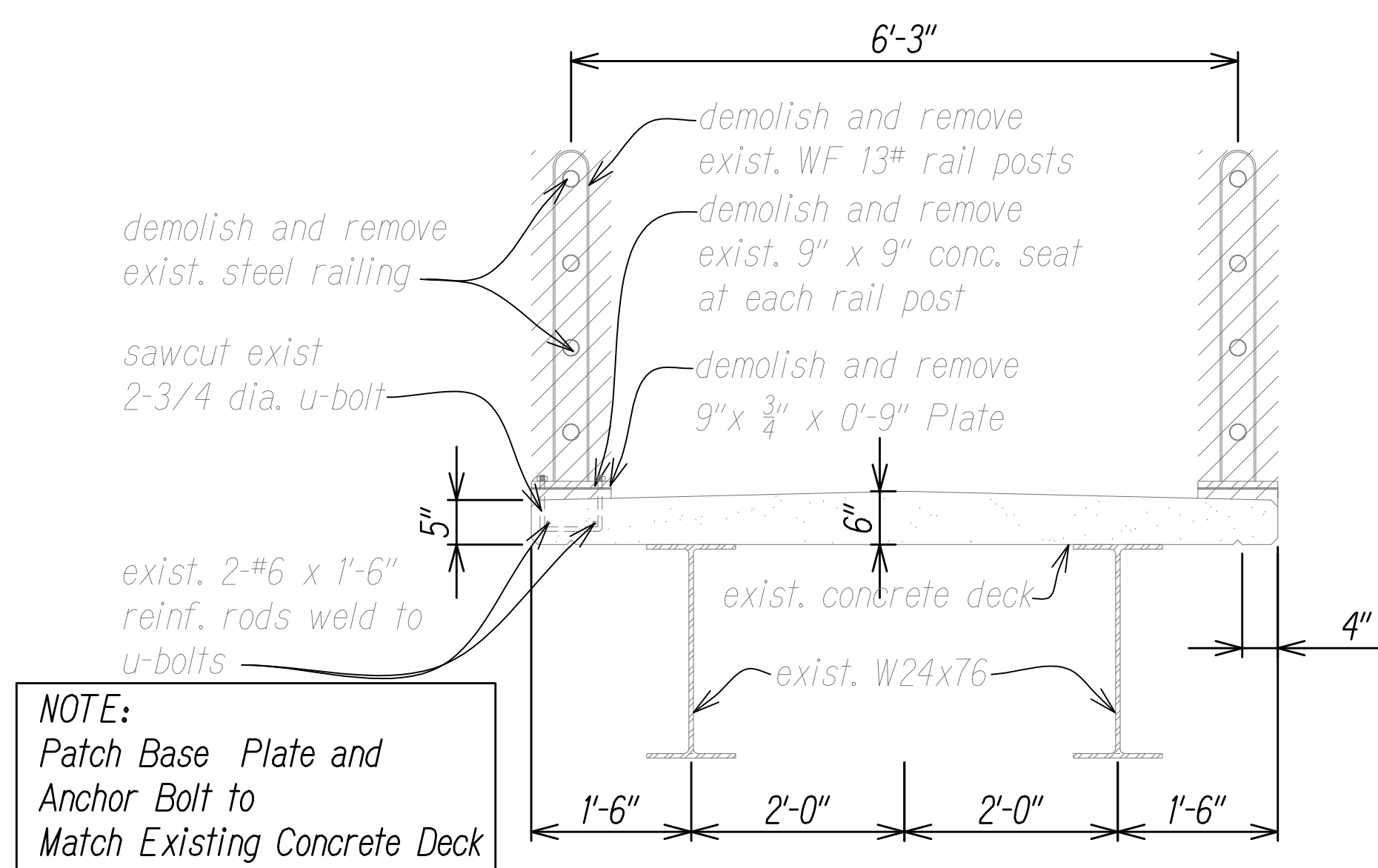
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**WILDER AVENUE PEDESTRIAN OVERCROSSING- RAILING RENOVATION**

INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. HIIJK-01-17M

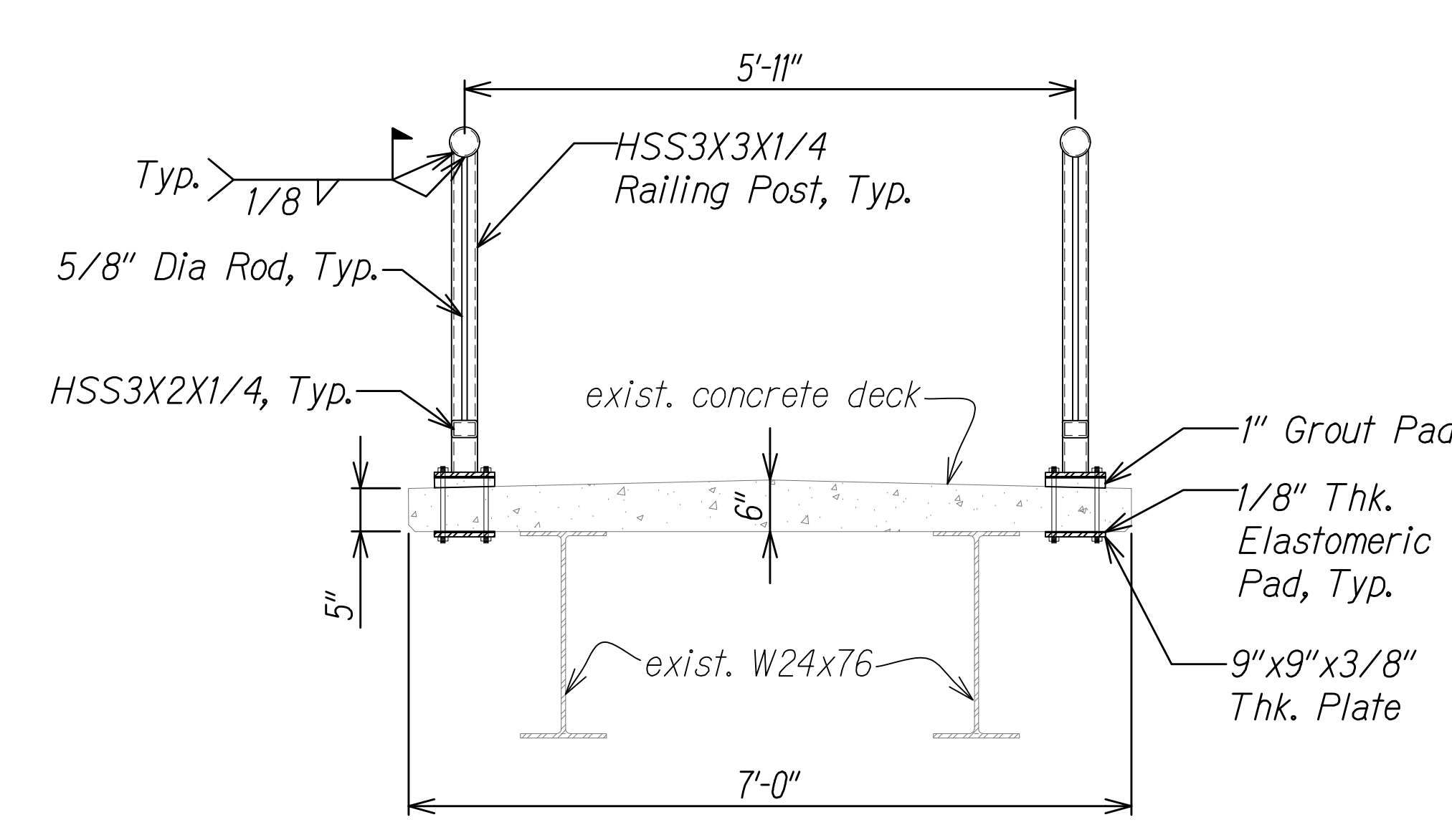
Scale: AS NOTED Date: JUNE, 2020

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	380	381

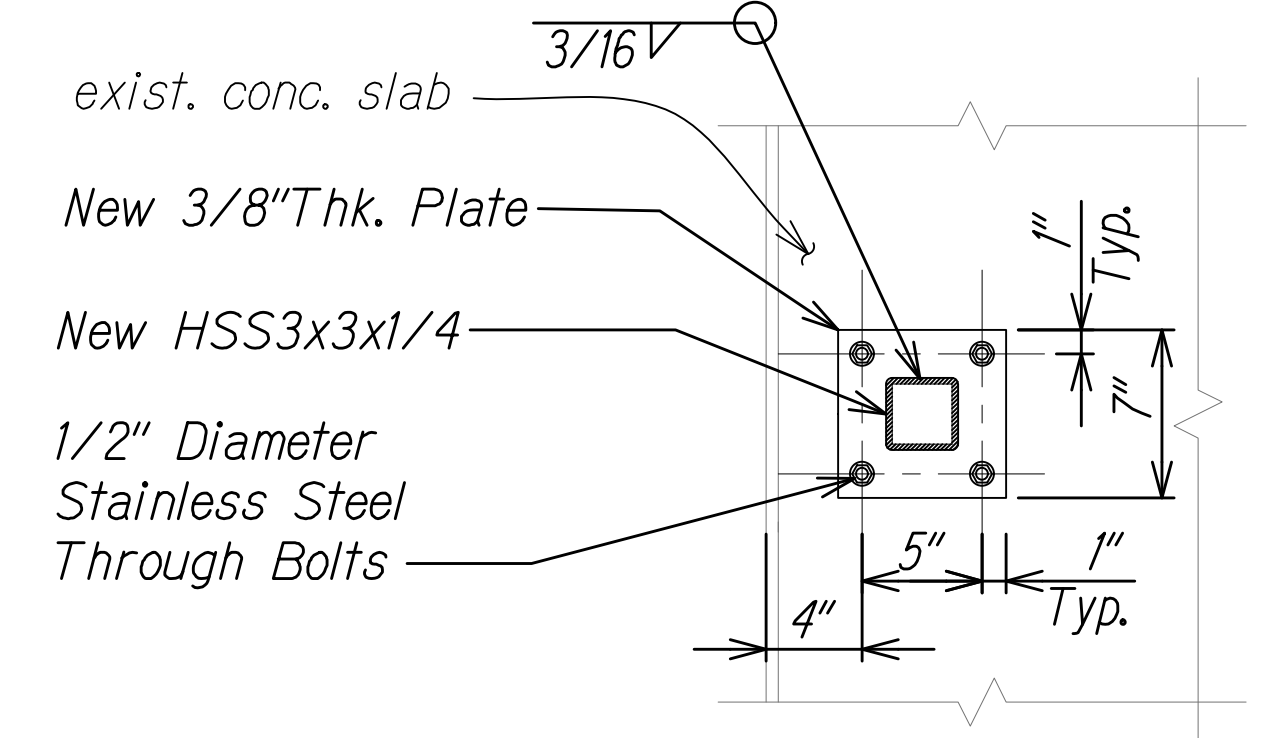


NOTE:  
Patch Base Plate and Anchor Bolt to Match Existing Concrete Deck

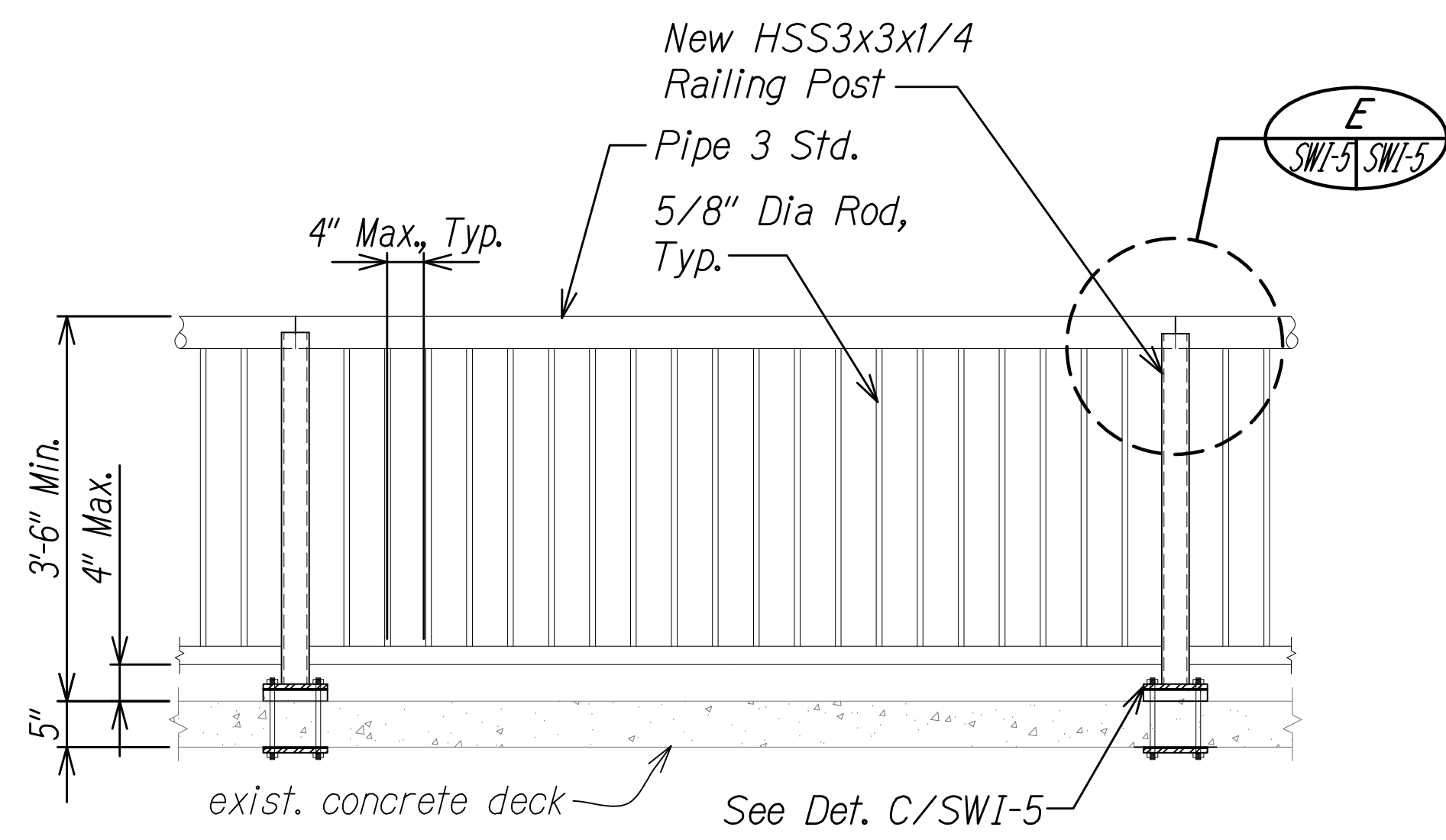
**DEMOLITION SECTION A**  
Scale: 3/4" = 1'-0"  
SWI-7 SWI-5



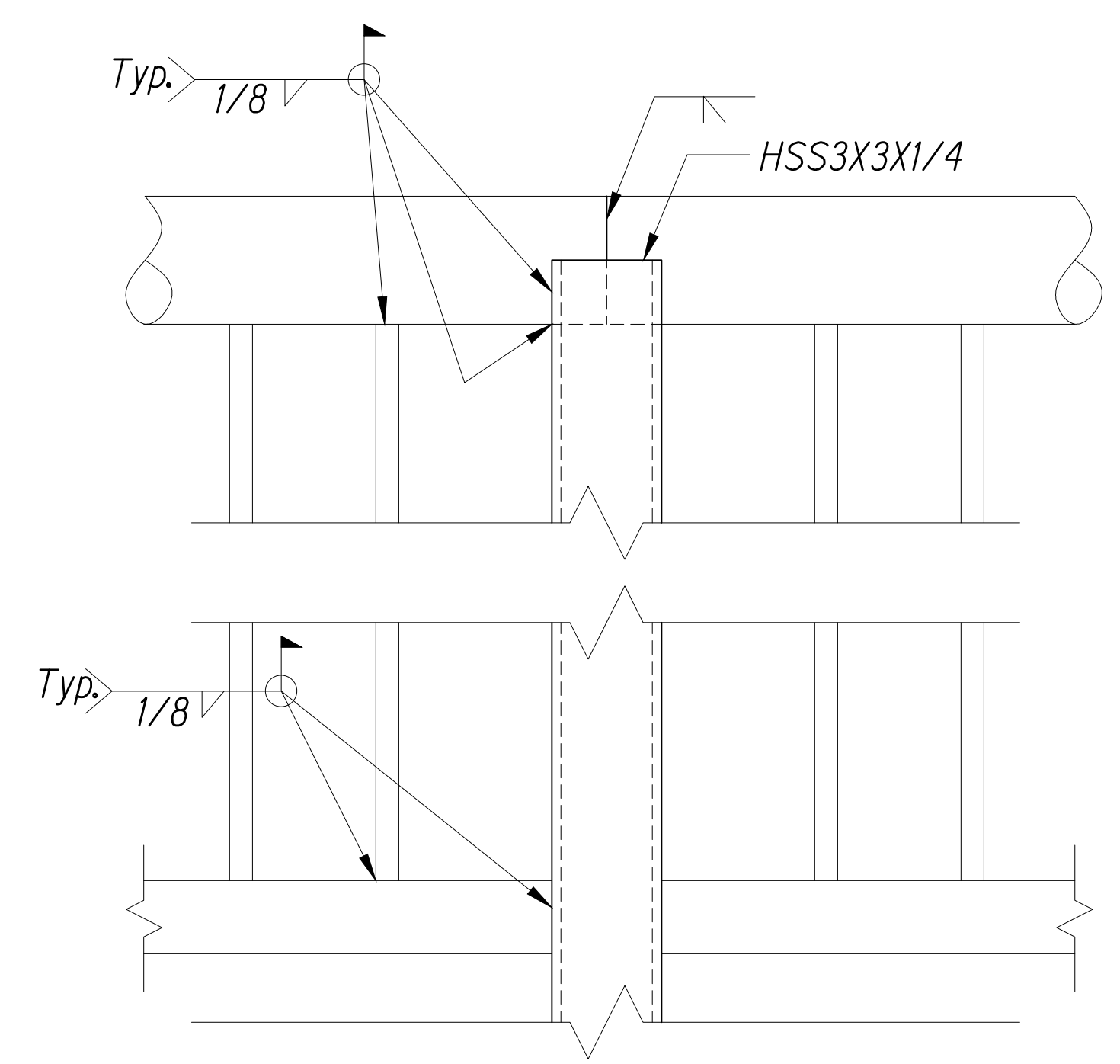
**RAILING SECTION B**  
Scale: 3/4" = 1'-0"  
SWI-3 SWI-5



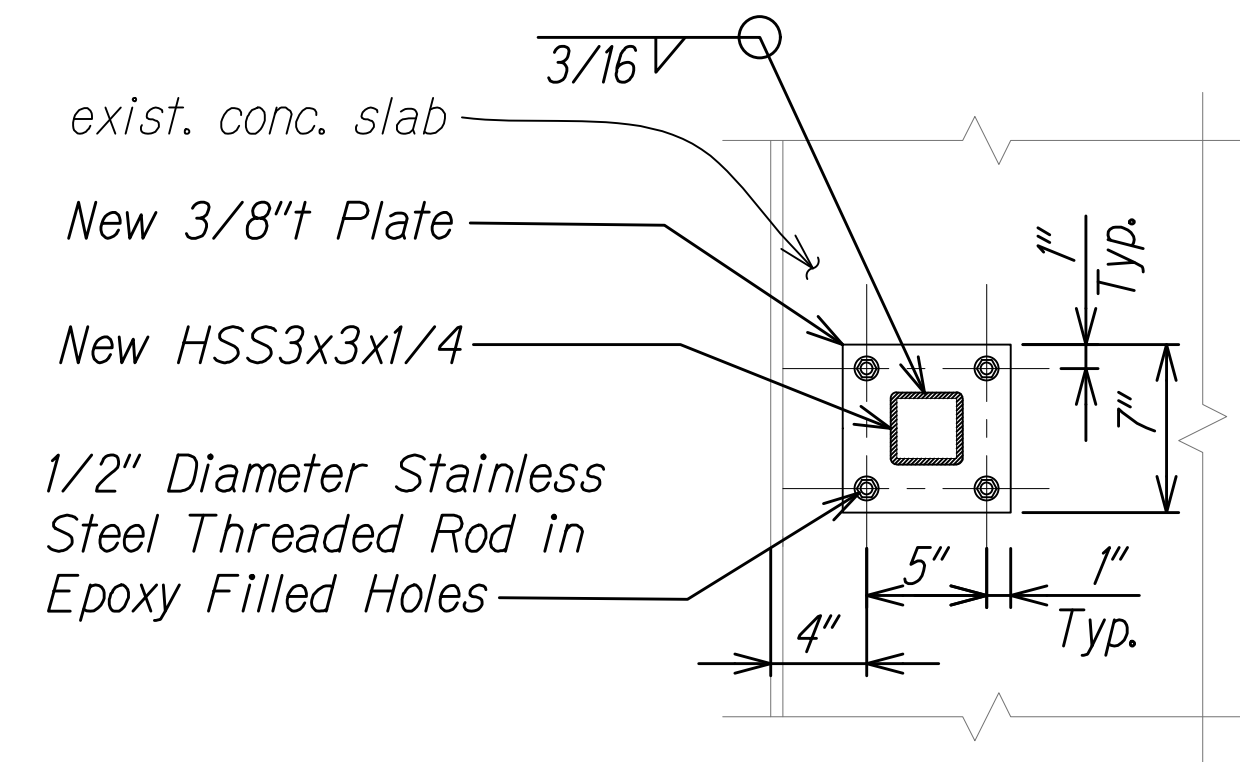
**THROUGH-BOLT BASEPLATE DETAIL C**  
Scale: 1 1/2" = 1'-0"  
SWI-3 SWI-5



**RAILING DETAIL D**  
Scale: 3/4" = 1'-0"  
SWI-3 SWI-5

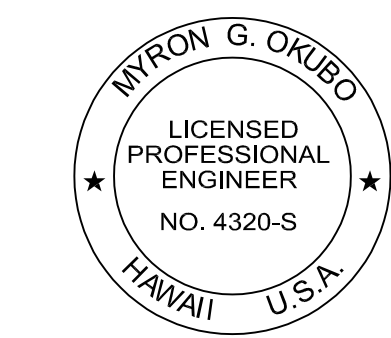
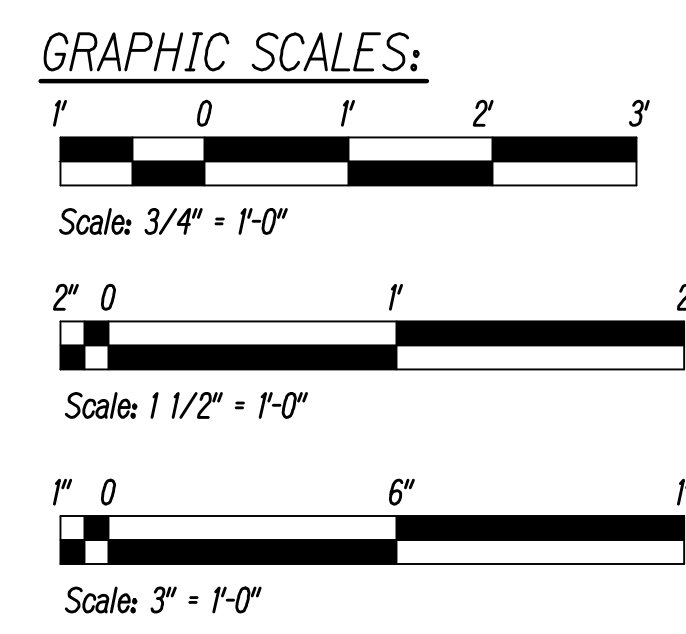


**RAILING DETAIL E**  
Scale: 3" = 1'-0"  
SWI-3 SWI-5



**THREADED ROD BASEPLATE DETAIL F**  
Scale: 1 1/2" = 1'-0"  
SWI-3 SWI-5

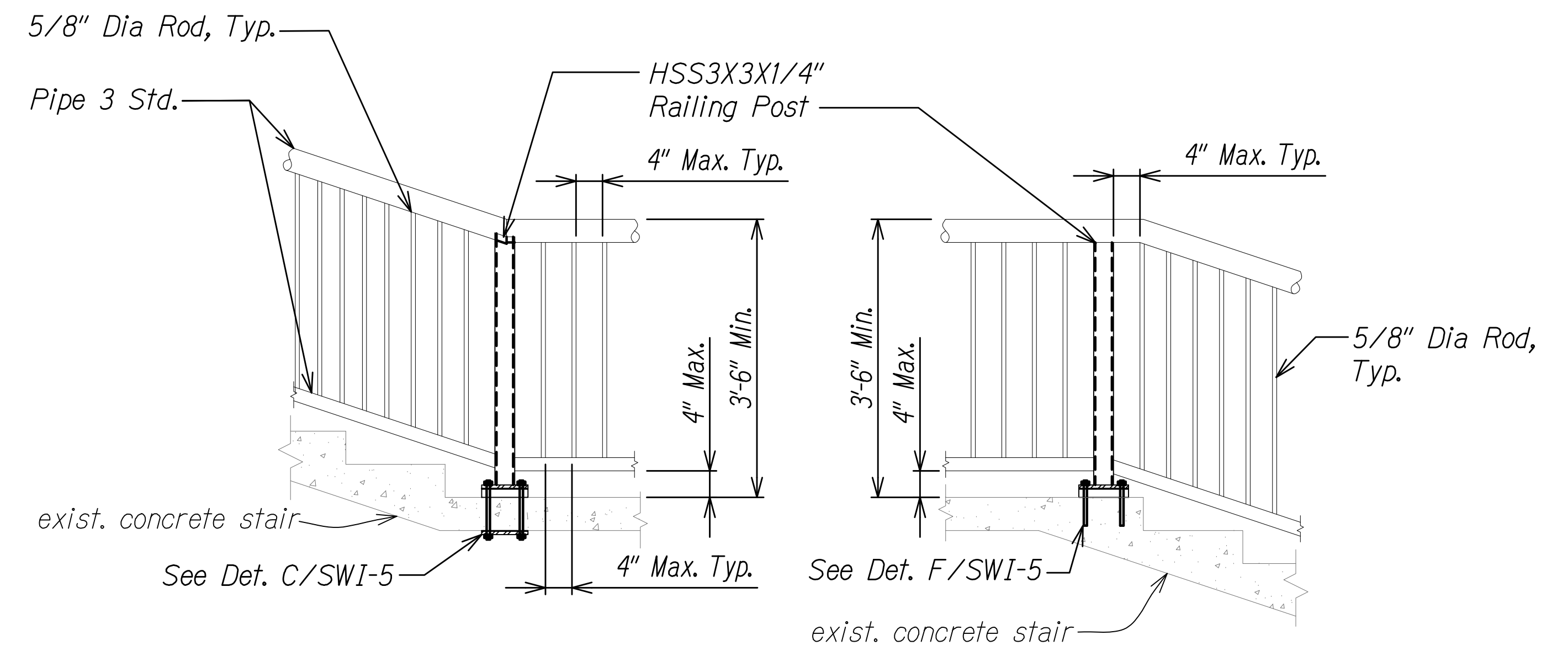
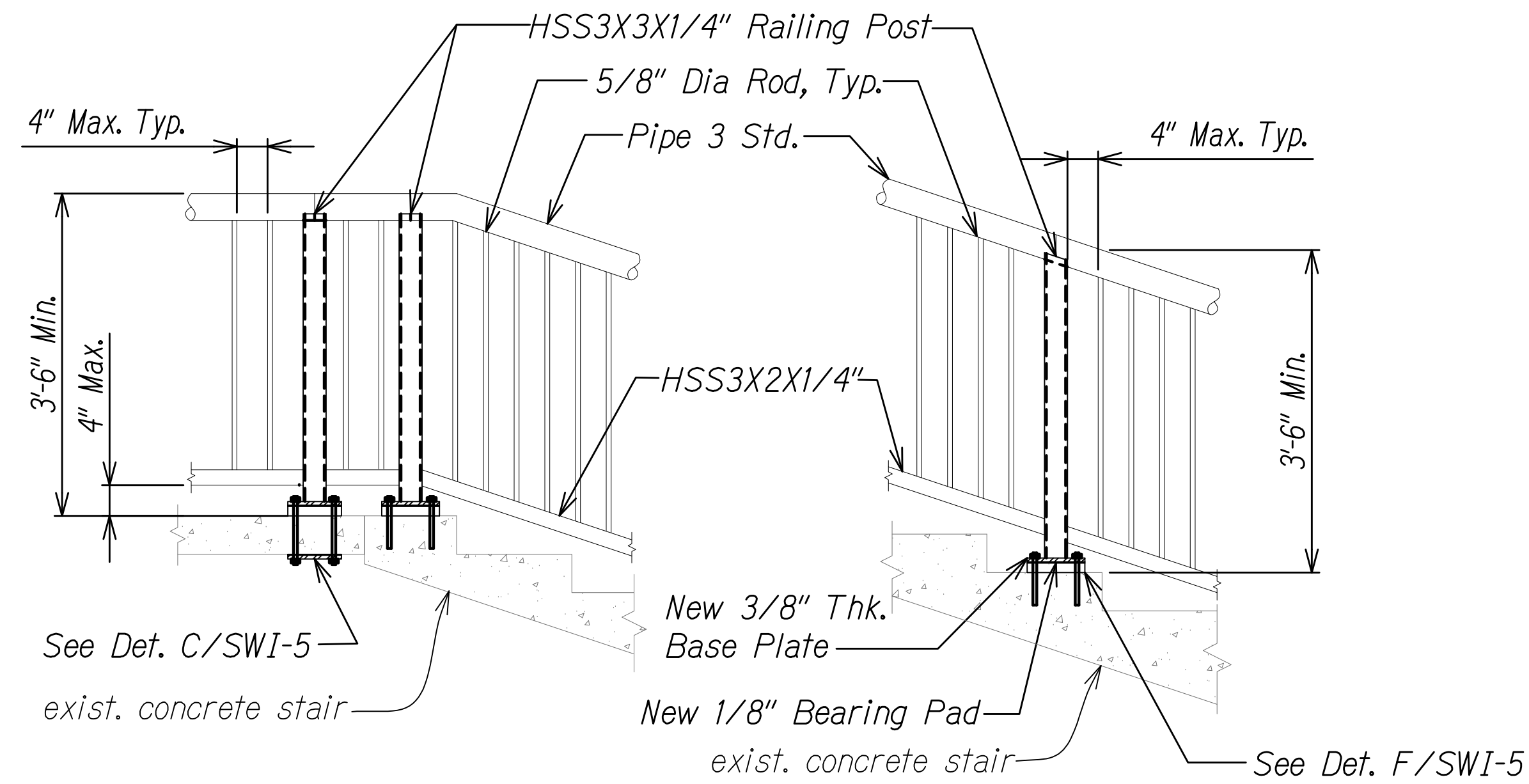
- NOTES:**
- For General Notes, Abbreviations, and Estimated Quantities, See Sheets SG-1 and SG-2.
  - Provide Access for Pedestrian, Secure Work Site at End of Day to Provide Protection at Demoad Rails, No Work Over Live Traffic, etc.
  - Grind Smooth All Field Welds.



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 SIGNATURE EXPIRATION DATE OF THE LICENSE

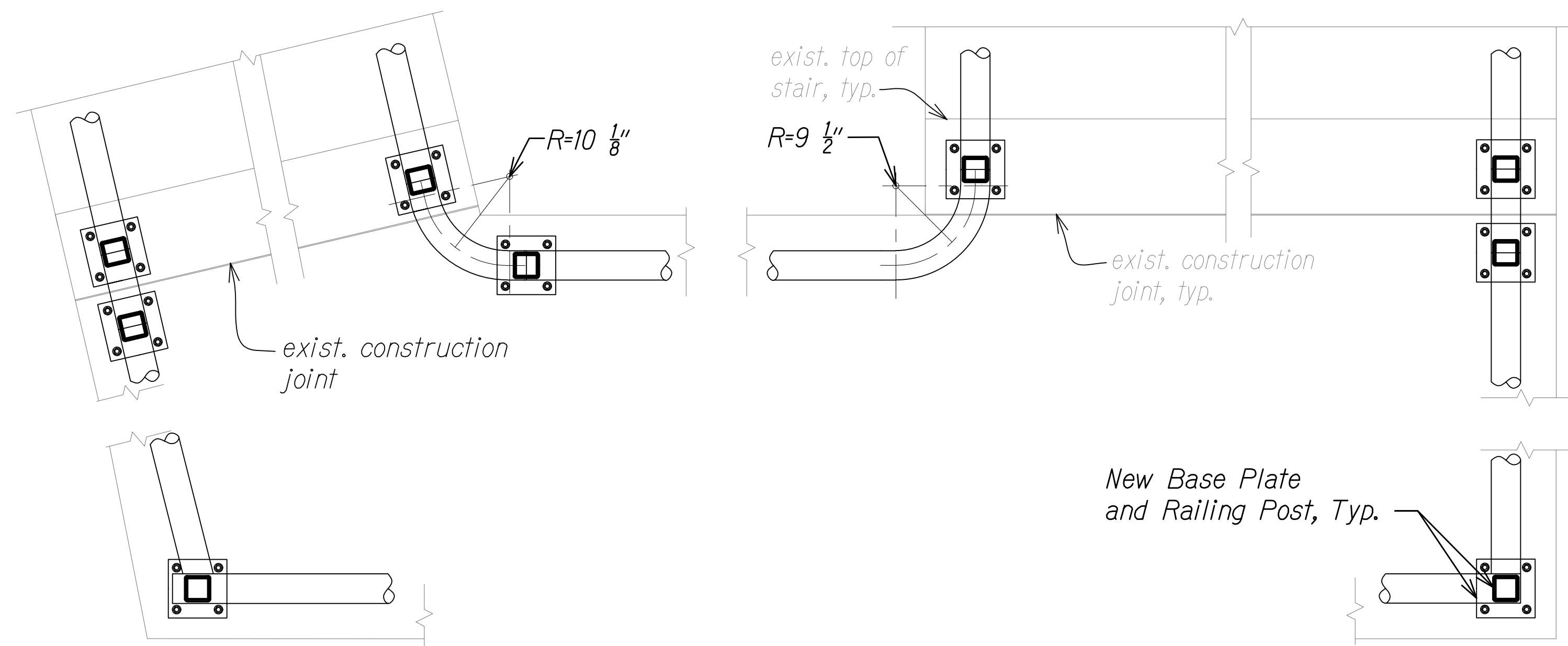
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**WILDER AVE. PEDESTRIAN OVER-CROSSING SECTIONS AND DETAILS**  
 INTERSTATE ROUTE H-1 RESURFACING  
 Miller Pedestrian Overpass to Kapiolani Interchange  
 Federal Aid Project No. H11JK-01-17M  
 Scale: AS NOTED Date: JUNE, 2020  
 SHEET No. SWI-5 OF 27 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11JK-01-17M	2024	381	381



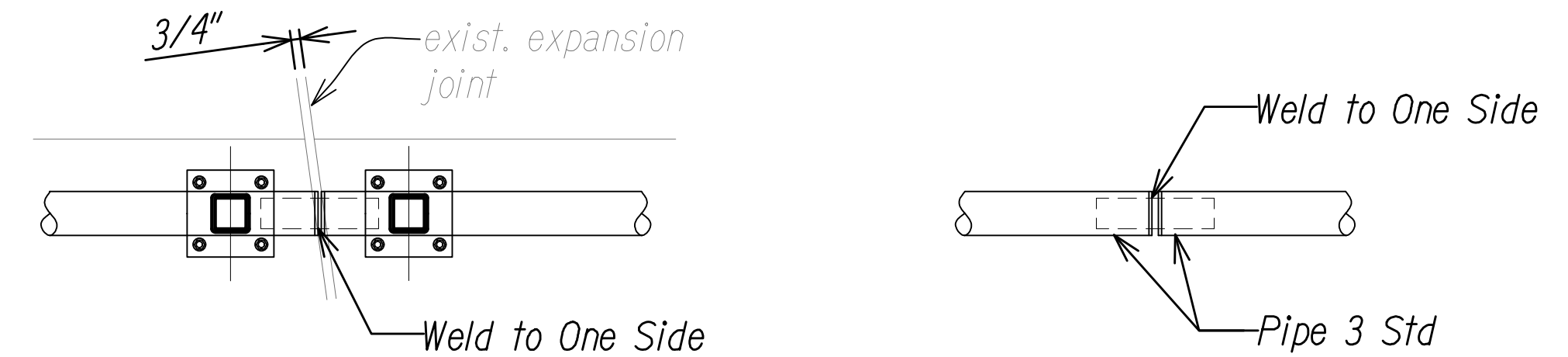
**RAILING SECTION AT STAIRS**  
Scale: 3/4" = 1'-0"

A  
SWI-3 SWI-6



**ENLARGED STAIRS RAILING DETAIL**  
Scale: 1" = 1'-0"

B  
SWI-3 SWI-6

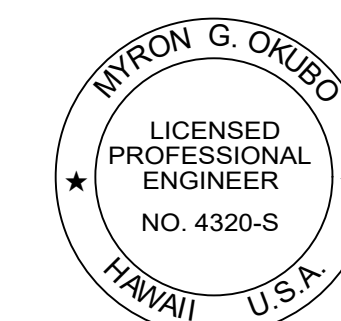
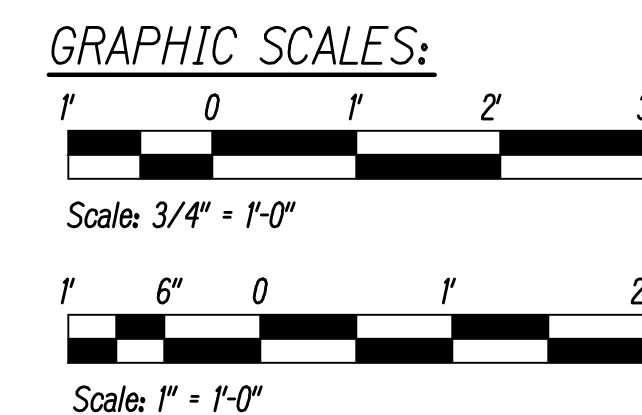


**PIPE SLEEVE CONNECTION DETAIL AT EXPANSION JOINT**  
Scale: 1" = 1'-0"

C  
SWI-3 SWI-6

**NOTES:**

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3. Grind Smooth All Field Welds.



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*Myron Okubo* 04/30/26  
SIGNATURE EXPIRATION DATE  
OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WILDER AVE. PEDESTRIAN OVER-CROSSING SECTIONS AND DETAILS**

INTERSTATE ROUTE H-1 RESURFACING  
Miller Pedestrian Overpass to Kapiolani Interchange  
Federal Aid Project No. H11JK-01-17M

Scale: AS NOTED Date: JUNE, 2020

SHEET No. SWI-6 OF 27 SHEETS