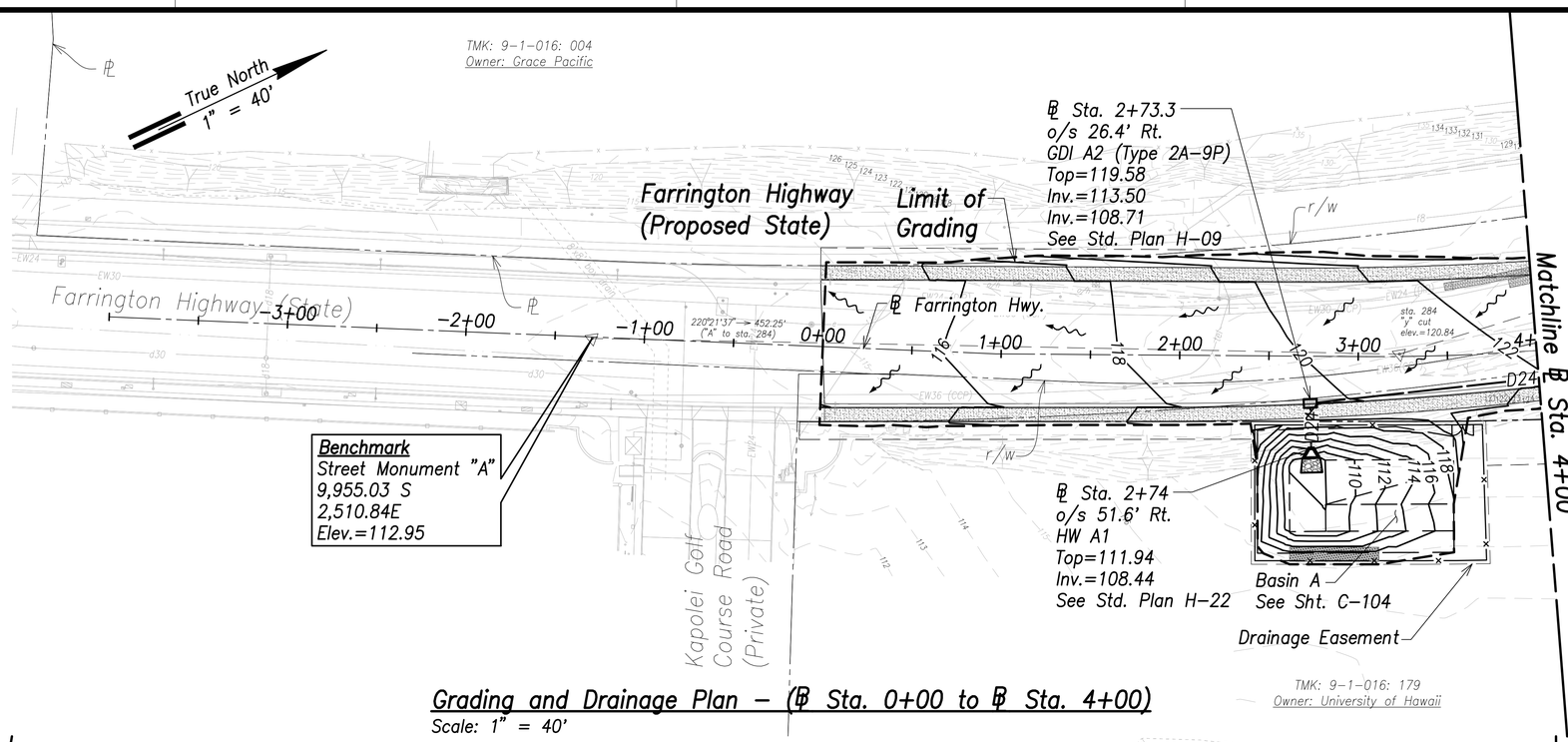
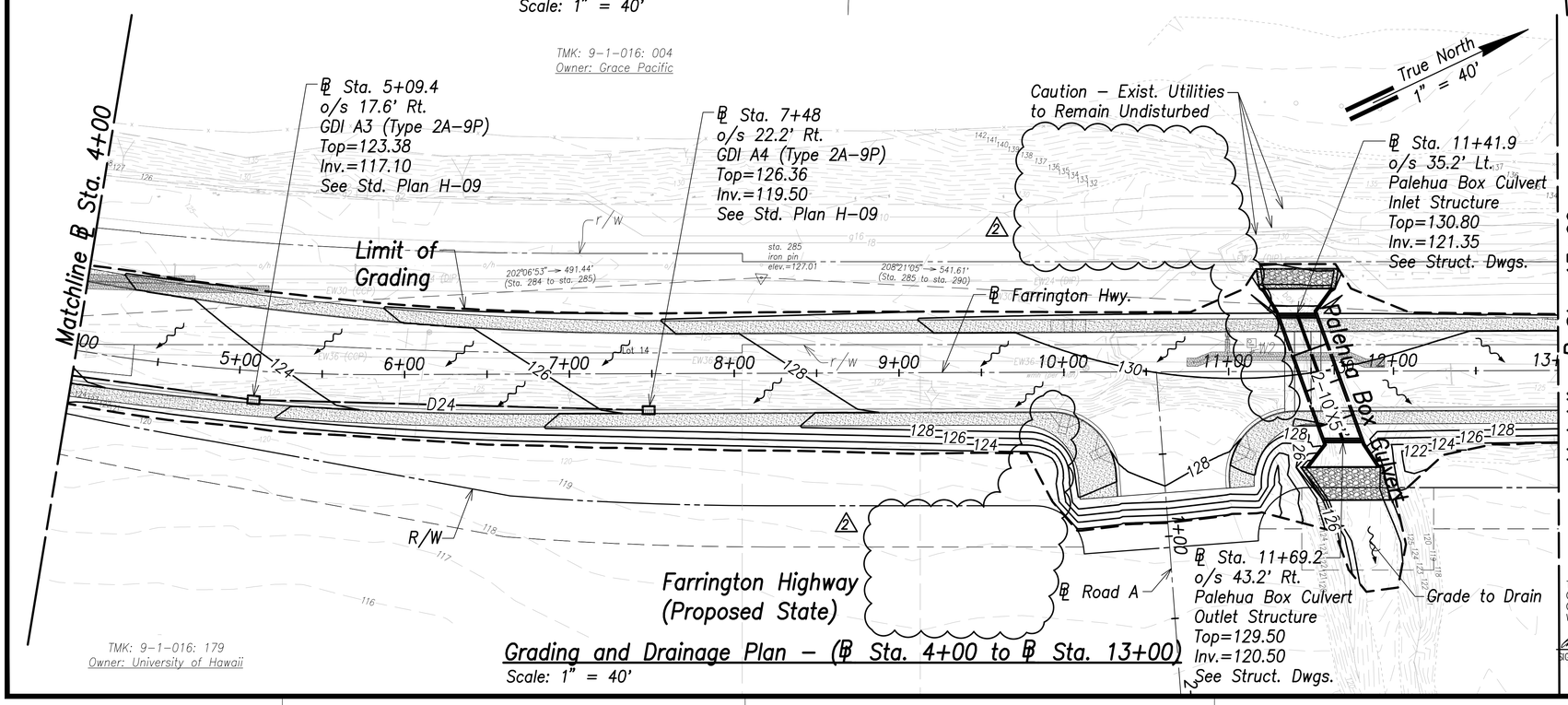
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	87	767



Grading and Drainage Plan – (℄ Sta. 0+00 to ℄ Sta. 4+00)

Scale: 1" = 40'



Grading and Drainage Plan – (℄ Sta. 4+00 to ℄ Sta. 13+00)

Scale: 1" = 40'

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	2 Removed GDI A5 and A6

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan ℄ Sta. 0+00 to ℄ Sta. 13+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE LICENSED PROFESSIONAL ENGINEER No. 6935-C HAWAII, U.S.A.

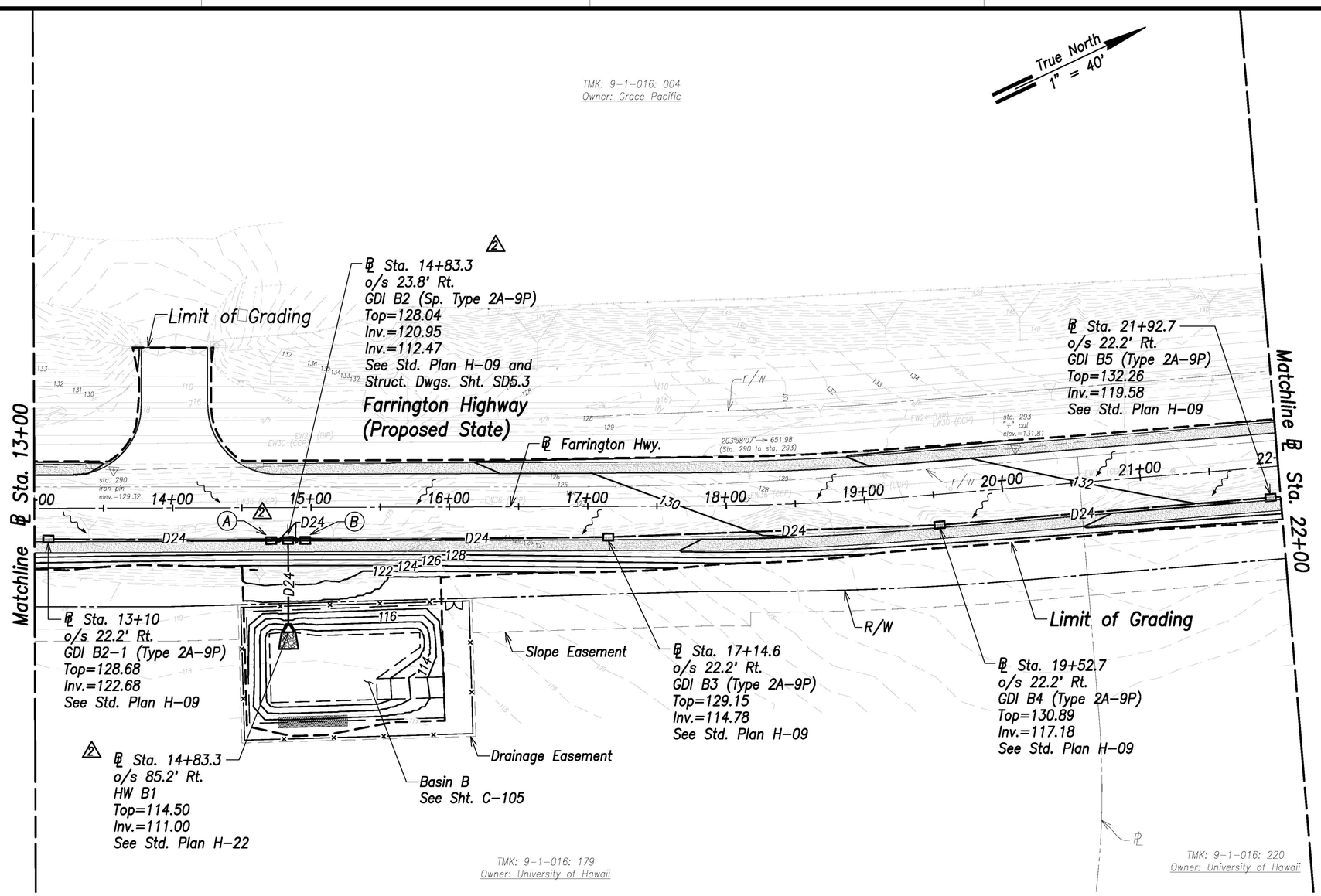
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

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

FILE: \\RMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-86 Grading and Drainage Plan – Sta. 0+00 to 13+00.dwg saved June 6, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	88	767



Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

(A)

℄ Sta. 14+71
o/s 23.8' Rt.
GDI B2-A (Sp. Type 2A-9P)
Top=128.05
Inv.=121.07
See Std. Plan H-09 and
Struct. Dwgs. Sht. SD5.3

(B)

℄ Sta. 14+95.7
o/s 23.8' Rt.
GDI B2-B (Sp. Type 2A-9P)
Top=128.05
Inv.=112.59
See Std. Plan H-09 and
Struct. Dwgs. Sht. SD5.3

Grading and Drainage Plan – (℄ Sta. 13+00 to ℄ Sta. 22+00)

Scale: 1" = 40'

DATE	REVISION
07/15/22	5 Revised GDI Type
06/08/22	2 Revised HW B1; Revised GDI B2, B2-A, and B2-B

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2024

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan ℄ Sta. 13+00 to ℄ Sta. 22+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

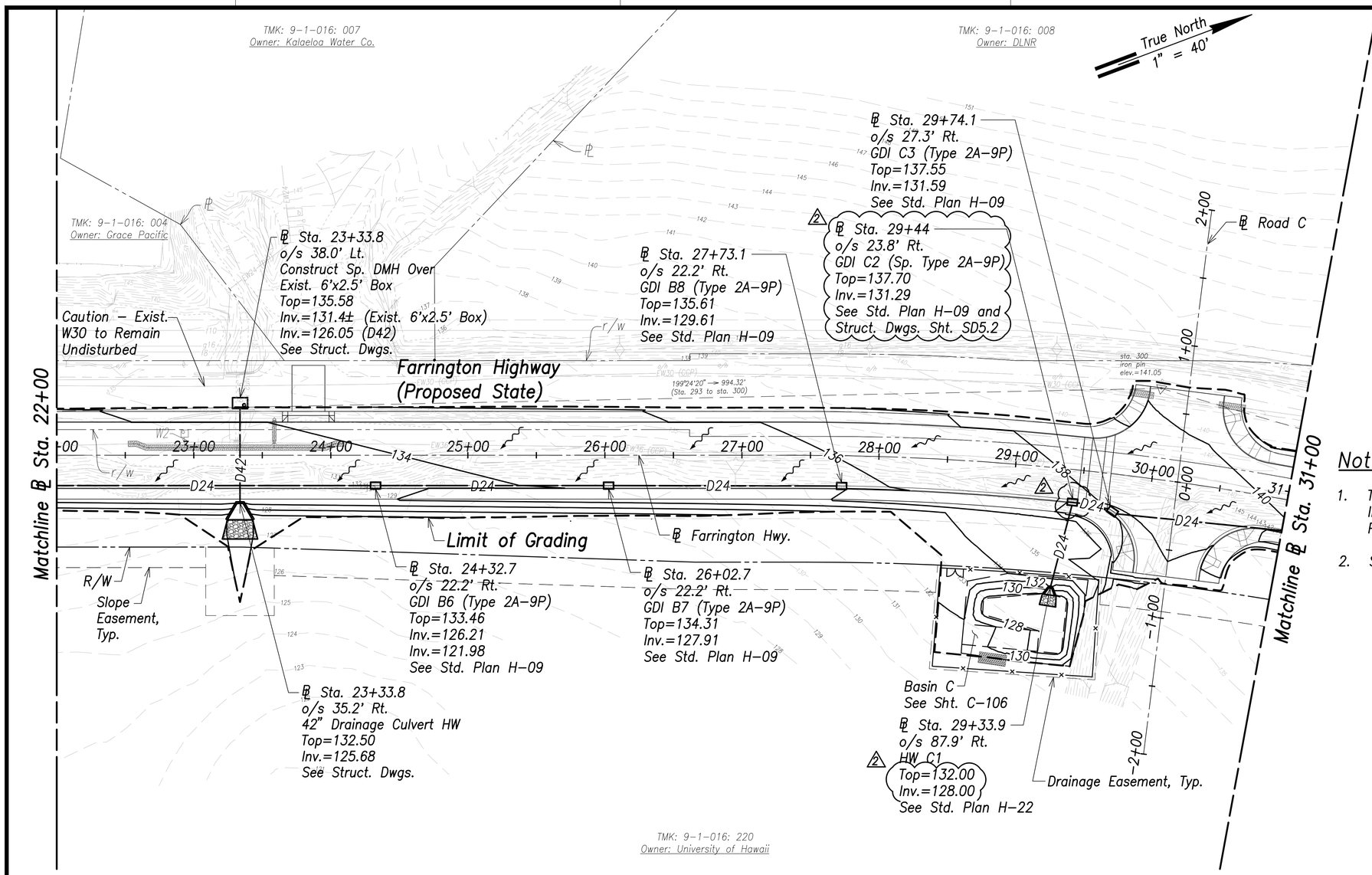
SHEET No. C-87 OF 767 SHEETS

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

FILE: K:\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-87 Grading and Drainage Plan - Sta. 13+00 to 22+00.dwg saved July 8, 2022

ADD. 88

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	89	767



Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

Grading and Drainage Plan – (℄ Sta. 22+00 to ℄ Sta. 31+00)

Scale: 1" = 40'

DATE	REVISION
06/08/22	2 Revised HW C1 and GDI C2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 22+00 to ℄ Sta. 31+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

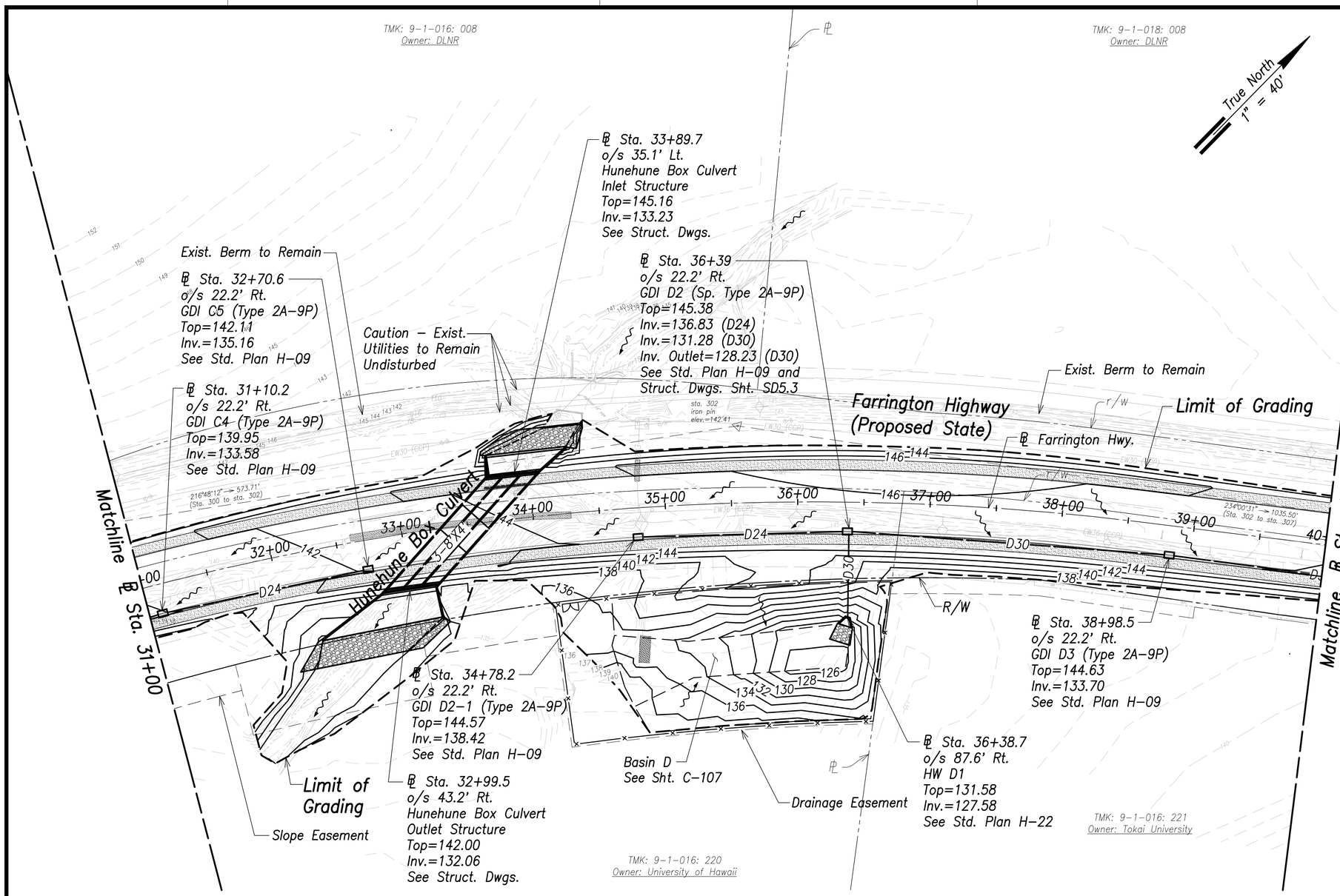
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

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

FILE: \\RMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-88 Grading and Drainage Plan – Sta. 22+00 to 31+00.dwg saved June 6, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	90	767



Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

Grading and Drainage Plan – (℄ Sta. 31+00 to ℄ Sta. 40+00)

Scale: 1" = 40'

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 31+00 to ℄ Sta. 40+00

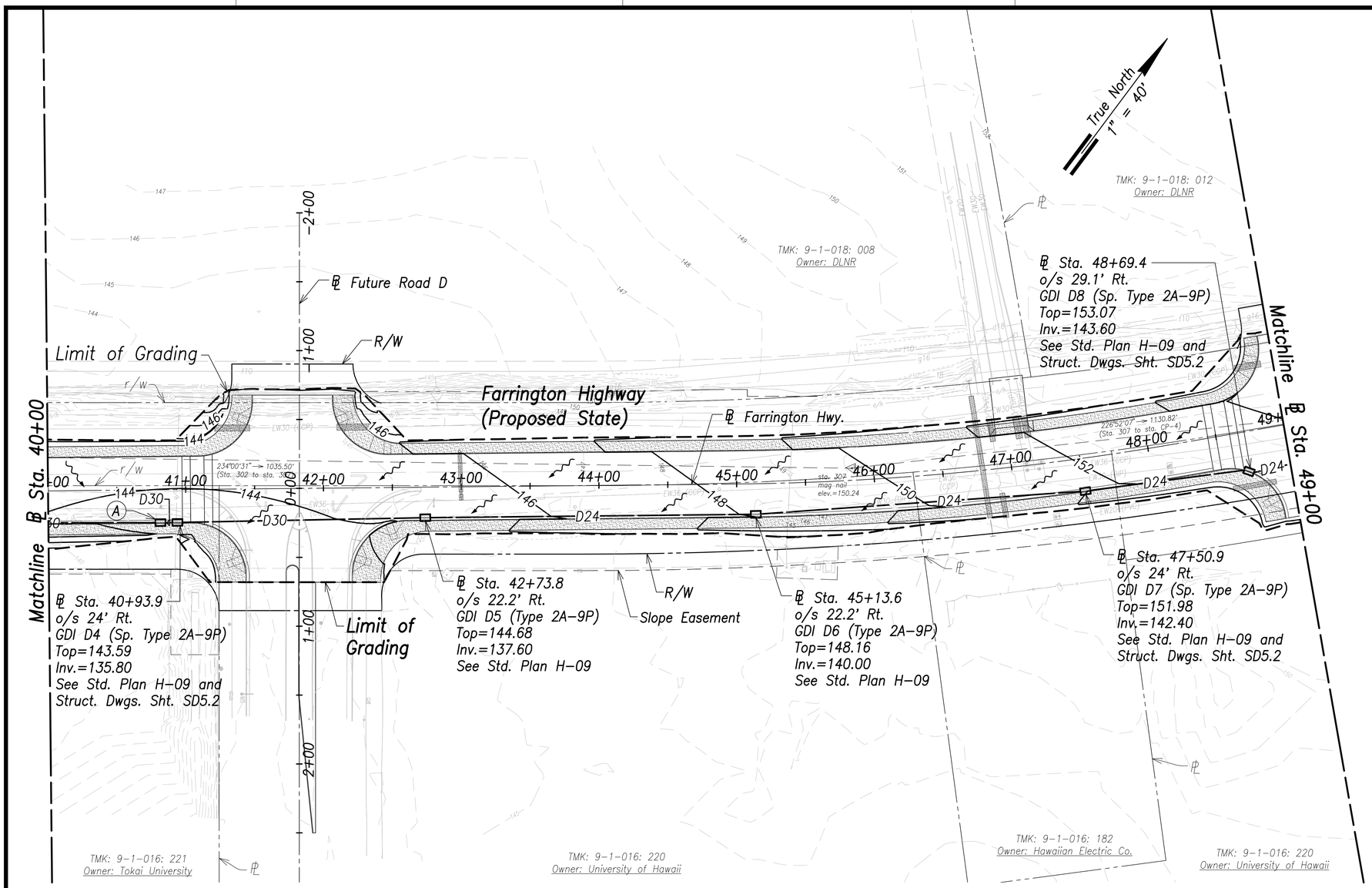
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

SHEET No. OF 767 SHEETS

FILE: \\RMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-89 Grading and Drainage Plan - Sta. 31+00 to 40+00.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	91	767



Ⓐ

℄ Sta. 40+81.5
o/s 23.8' Rt.
GDI D4-A (Sp. Type 2A-9P)
Top=143.40
Inv.=136.68
See Std. Plan H-09 and
Struct. Dwgs. Sht. SD5.2

Grading and Drainage Plan – (℄ Sta. 40+00 to ℄ Sta. 49+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 40+00 to ℄ Sta. 49+00

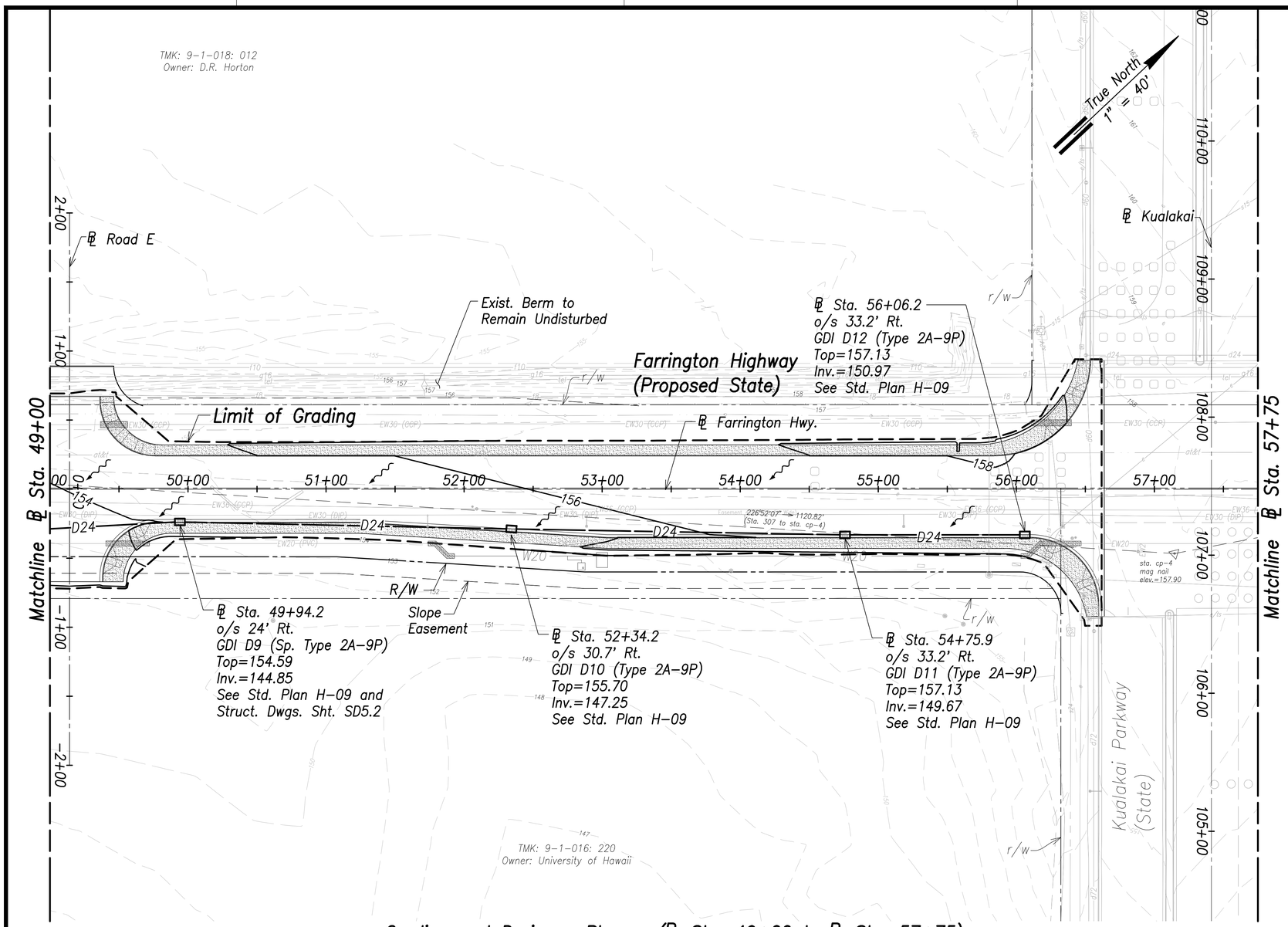
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

SHEET No. OF 767 SHEETS

FILE: \\RMTC-FS\project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-90 Grading and Drainage Plan - Sta. 40+00 to 49+00.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	92	767



Grading and Drainage Plan – (℄ Sta. 49+00 to ℄ Sta. 57+75)

Scale: 1" = 40'

Legend:

- Existing Grade Contour
- Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 49+00 to ℄ Sta. 57+75

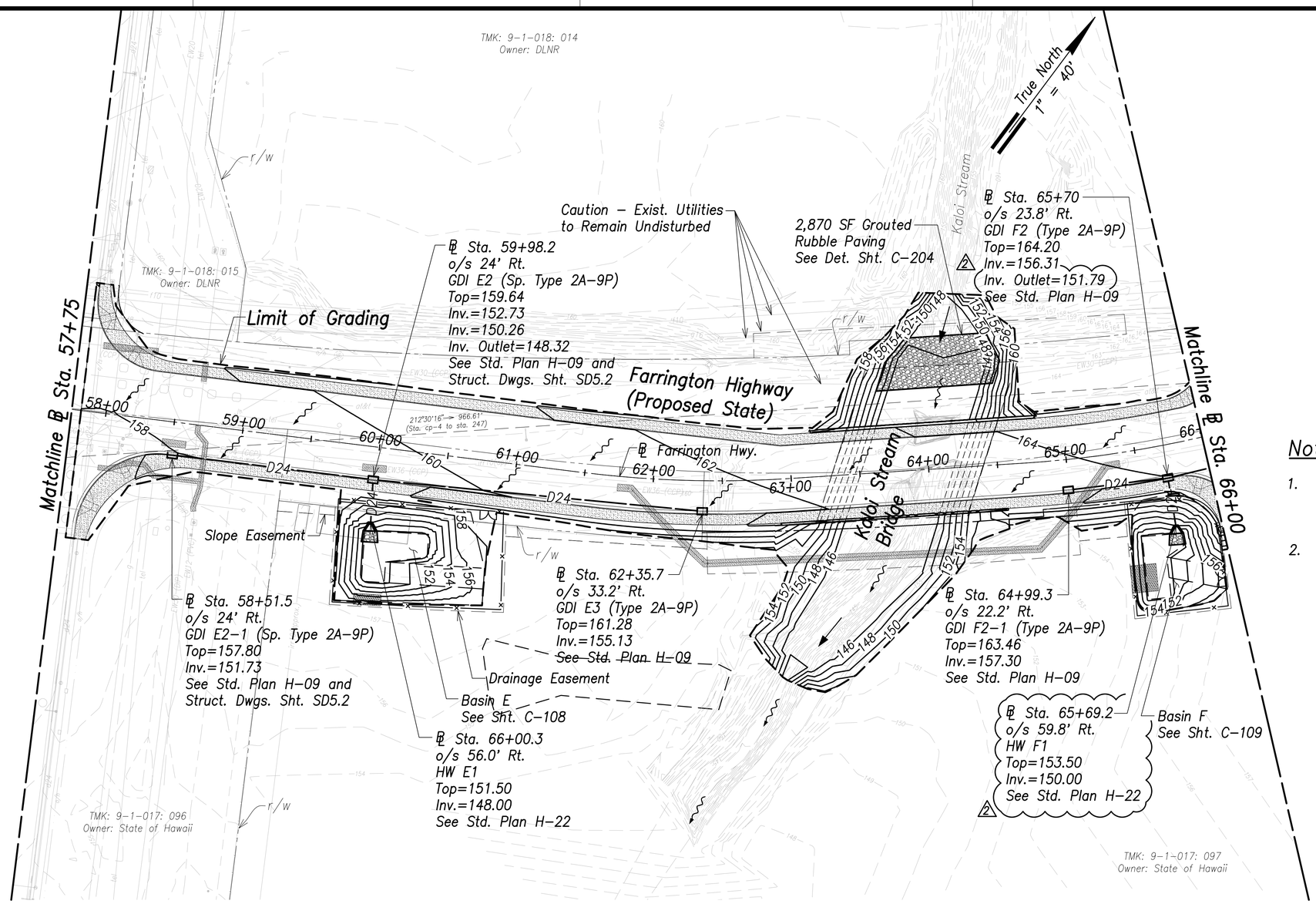
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

SHEET No. OF 767 SHEETS

FILE: \\RMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-91 Grading and Drainage Plan – Sta. 49+00 to 57+75.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	93	767



Grading and Drainage Plan – (℄ Sta. 57+75 to ℄ Sta. 66+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3

Legend:

- 70 — Ground Contour
- 100 — Finished Grade Contour
- 70 — Finished Grade Contour (Under Bridge)
- Limit of Grading
- Existing Flow
- Proposed Flow

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	2 Revised HW F1 and GDI F2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 57+75 to ℄ Sta. 66+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

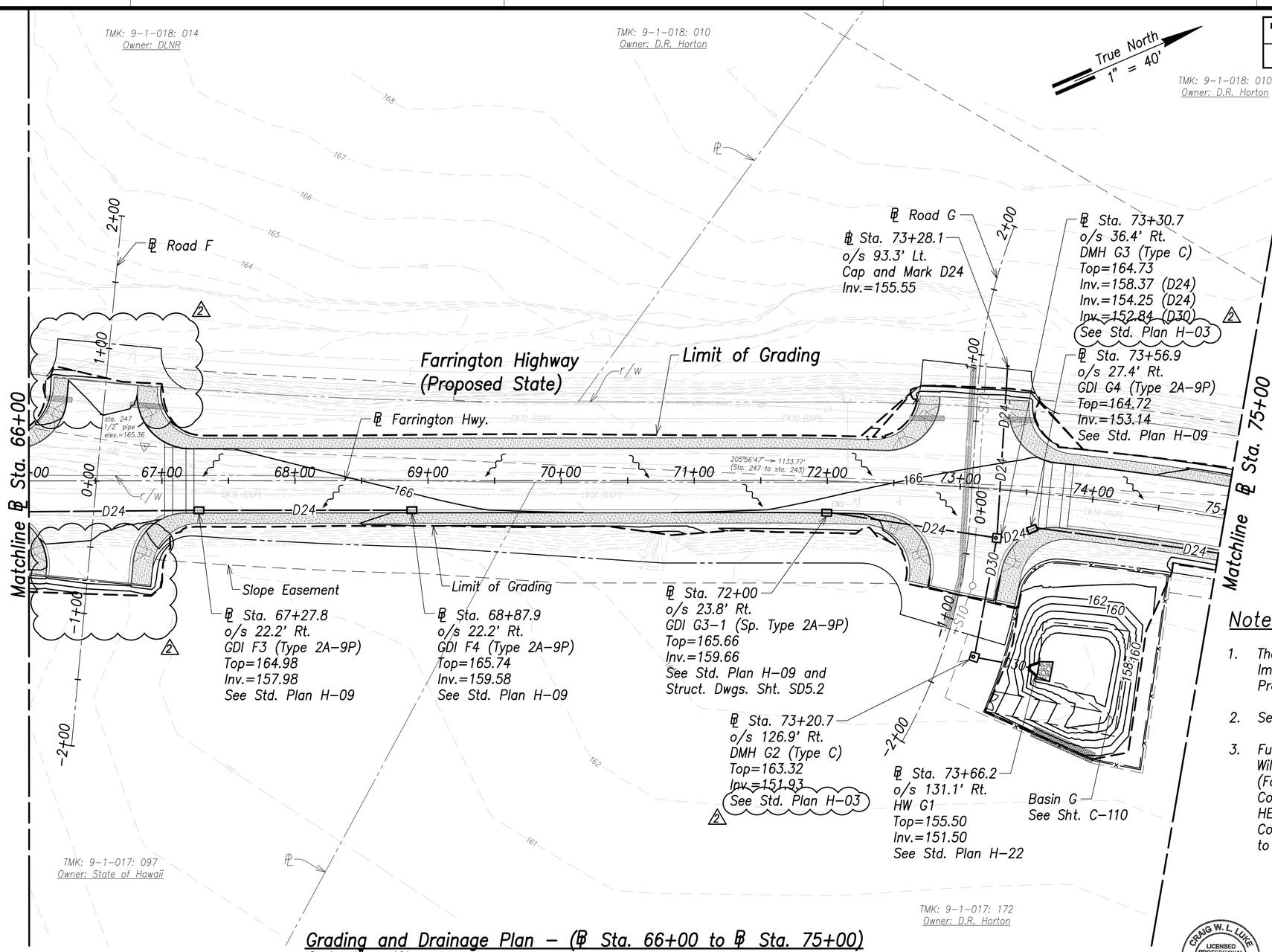
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

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

FILE: \\KMTC-FS\project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-92 Grading and Drainage Plan – Sta. 57+75 to 66+00.dwg saved June 6, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	94	767



Grading and Drainage Plan – (℄ Sta. 66+00 to ℄ Sta. 75+00)

Scale: 1" = 40'

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Future HECO Electrical System, Construction Will Occur at the Same as this Project (Farrington Highway Improvements). The Contractor Shall Fully Coordinate Work with HECO and their Contractor. The Cost to Coordinate Work Will be Considered Incidental to the Various Items of Work.

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	2 Revised detail reference; Revised road stub grading

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 66+00 to ℄ Sta. 75+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — April 30, 2022 EXPIRATION DATE OF THE LICENSE

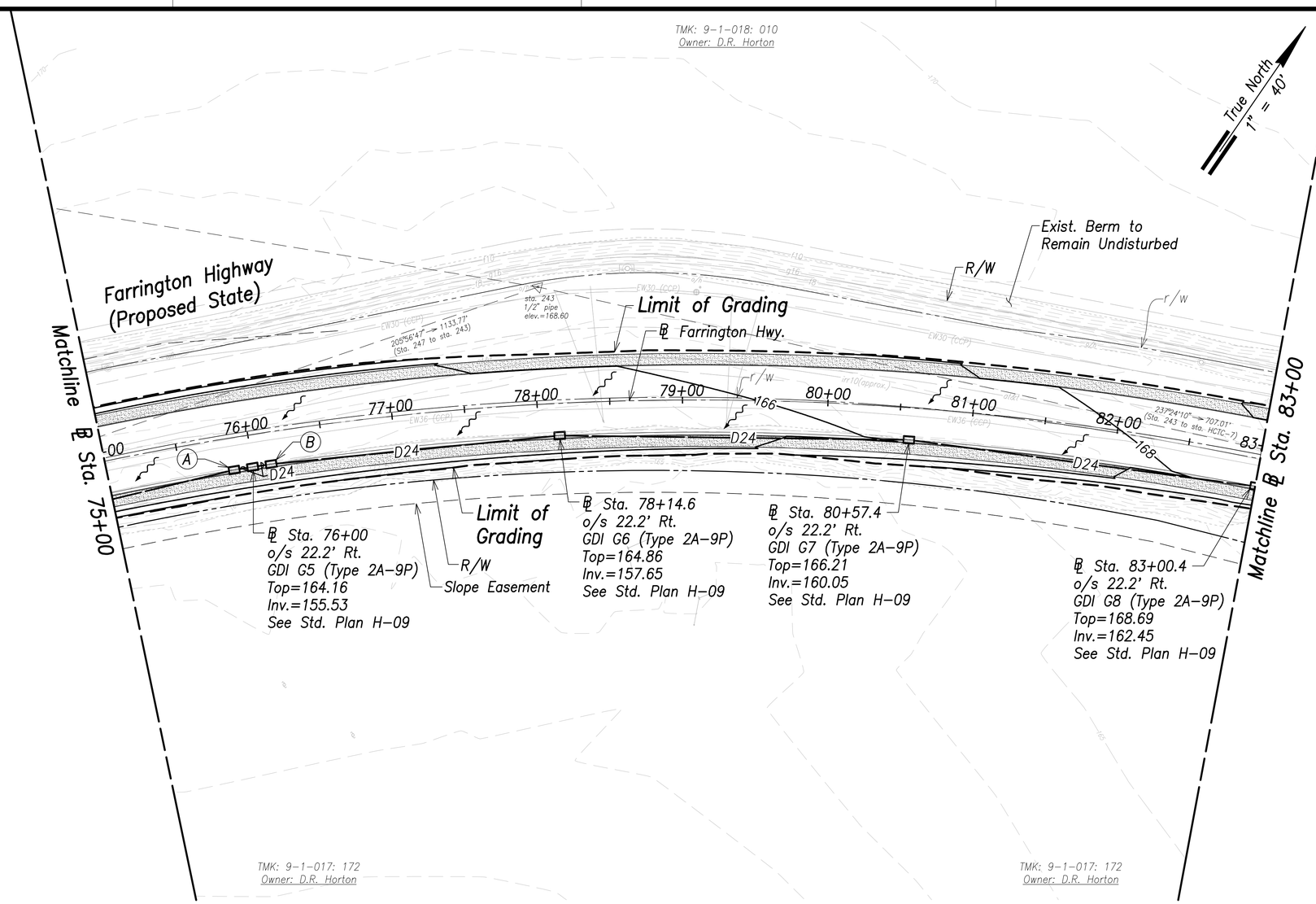
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

SHEET No. C-93 OF 767 SHEETS

ADD. 94

FILE: \\PMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-93 Grading and Drainage Plan - Sta. 66+00 to 75+00.dwg saved June 3, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	95	767



Grading and Drainage Plan – (℄ Sta. 75+00 to ℄ Sta. 83+00)

Scale: 1" = 40'

(A)

℄ Sta. 75+87
o/s 22.2' Rt.
GDI G5-A (Type 2A-9P)
Top=164.16
Inv.=155.41
See Std. Plan H-09

(B)

℄ Sta. 76+13
o/s 22.2' Rt.
GDI G5-B (Type 2A-9P)
Top=164.16
Inv.=155.67
See Std. Plan H-09

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Future HECO Electrical System, Construction Will Occur at the Same as this Project (Farrington Highway Improvements). The Contractor Shall Fully Coordinate Work with HECO and their Contractor. The Cost to Coordinate Work Will be Considered Incidental to the Various Items of Work.

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

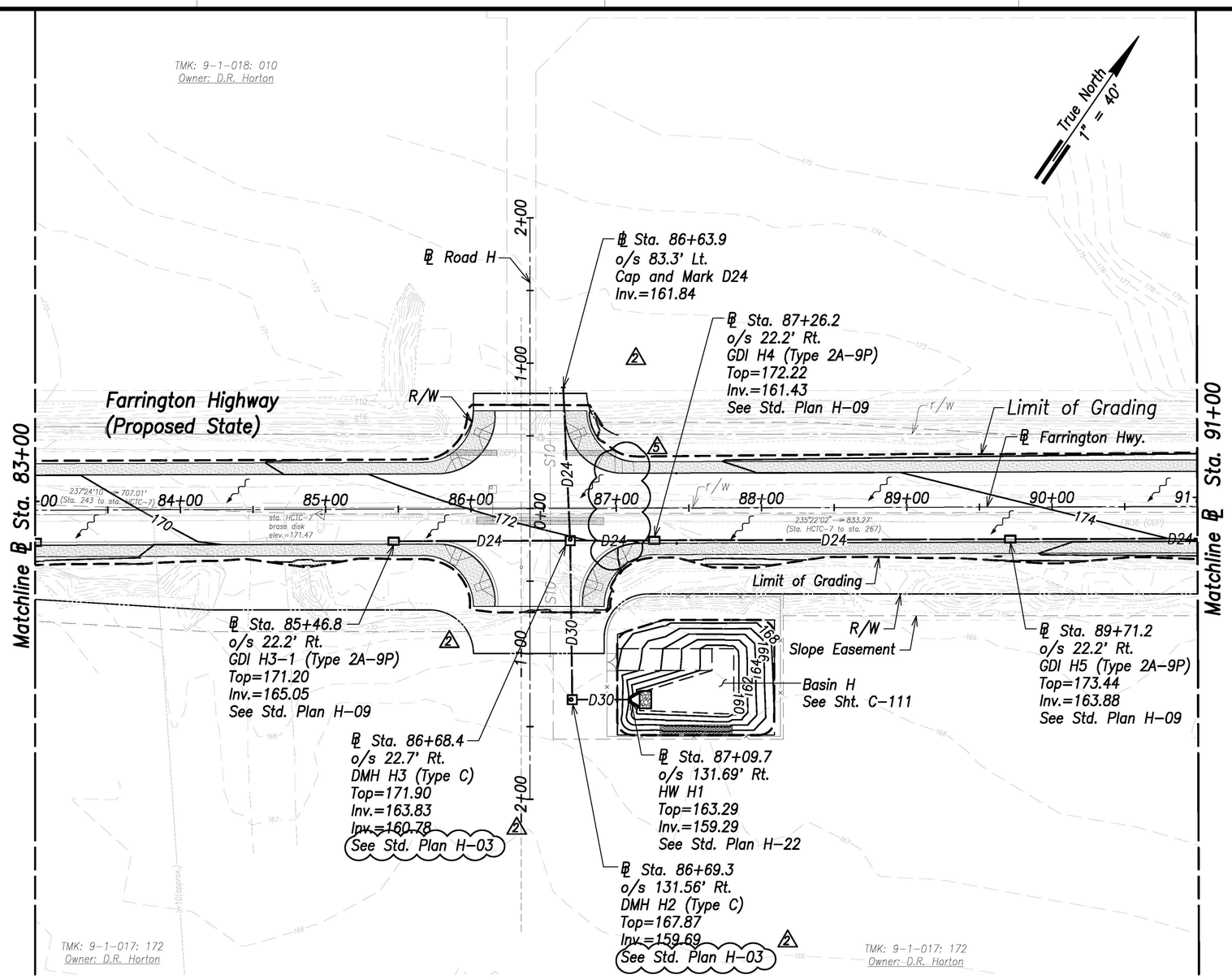
Grading and Drainage Plan
℄ Sta. 75+00 to ℄ Sta. 83+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

FILE: \\RMTC-FS\Iproject\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-94 Grading and Drainage Plan - Sta. 75+00 to 83+00.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	96	767



Grading and Drainage Plan – (℄ Sta. 83+00 to ℄ Sta. 91+00)

Scale: 1" = 40'

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Future HECO Electrical System, Construction Will Occur at the Same as this Project (Farrington Highway Improvements). The Contractor Shall Fully Coordinate Work with HECO and their Contractor. The Cost to Coordinate Work Will be Considered Incidental to the Various Items of Work.

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
07/15/22	5 Speed Table removed
06/08/22	2 Revised detail reference; Revised road stub grading

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2024

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 83+00 to ℄ Sta. 91+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

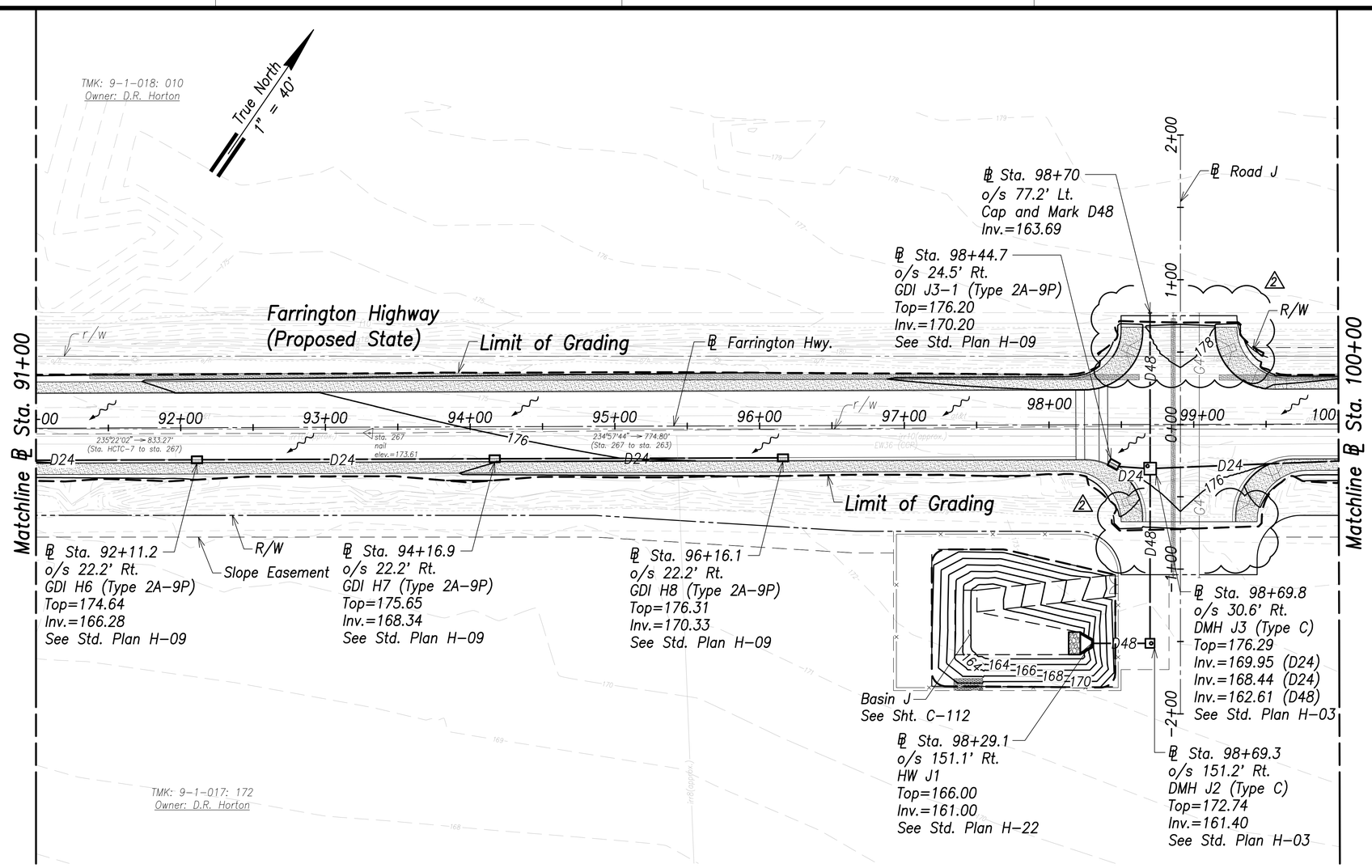
Scale: As Shown — Date: April 2022

SHEET No. C-95 OF 767 SHEETS

ORIGINAL PLAN — SURVEY PLOTTED BY, DRAWN BY, TRACED BY, DESIGNED BY, QUANTITIES BY, CHECKED BY, DATE
REVISION No. — NOTE BOOK

FILE: K:\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-95 Grading and Drainage Plan - Sta. 83+00 to 91+00.dwg saved July 11, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	97	767



Grading and Drainage Plan – (℄ Sta. 91+00 to ℄ Sta. 100+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Future HECO Electrical System, Construction Will Occur at the Same as this Project (Farrington Highway Improvements). The Contractor Shall Fully Coordinate Work with HECO and their Contractor. The Cost to Coordinate Work Will be Considered Incidental to the Various Items of Work.

Legend:

66	Ground Contour
68	Finished Grade Contour
	Limit of Grading
	Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	2 Revised road stub grading

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 91+00 to ℄ Sta. 100+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

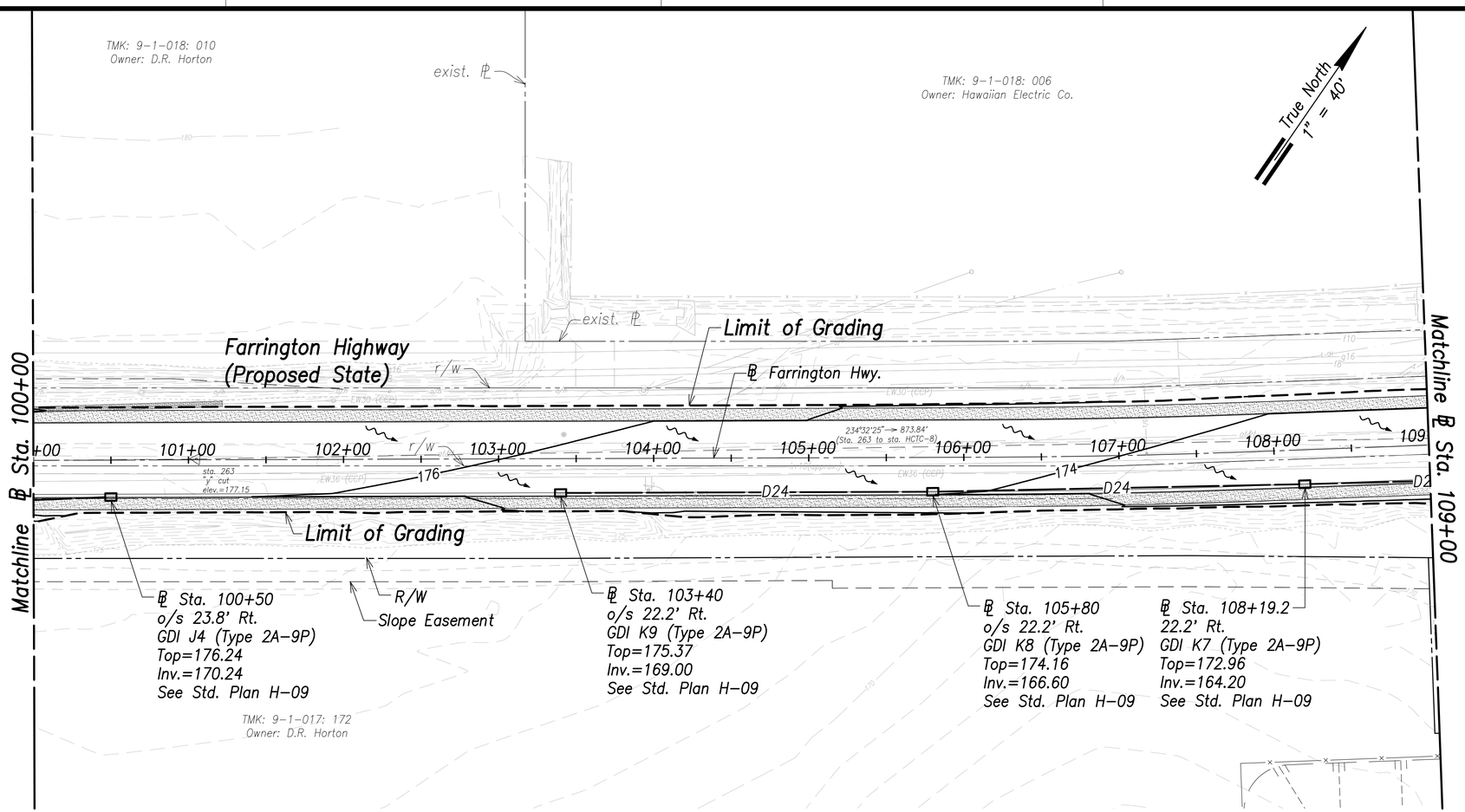
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

SHEET No. C-96 OF 767 SHEETS

ADD. 97

FILE: \\DMTC-FS\Project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwg\C-96 Grading and Drainage Plan - Sta. 91+00 to 100+00.dwg saved June 3, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	98	767



Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Grading and Drainage Plan – (℄ Sta. 100+00 to ℄ Sta. 109+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Future HECO Electrical System, Construction Will Occur at the Same as this Project (Farrington Highway Improvements). The Contractor Shall Fully Coordinate Work with HECO and their Contractor. The Cost to Coordinate Work Will be Considered Incidental to the Various Items of Work.

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

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April 30, 2022

SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

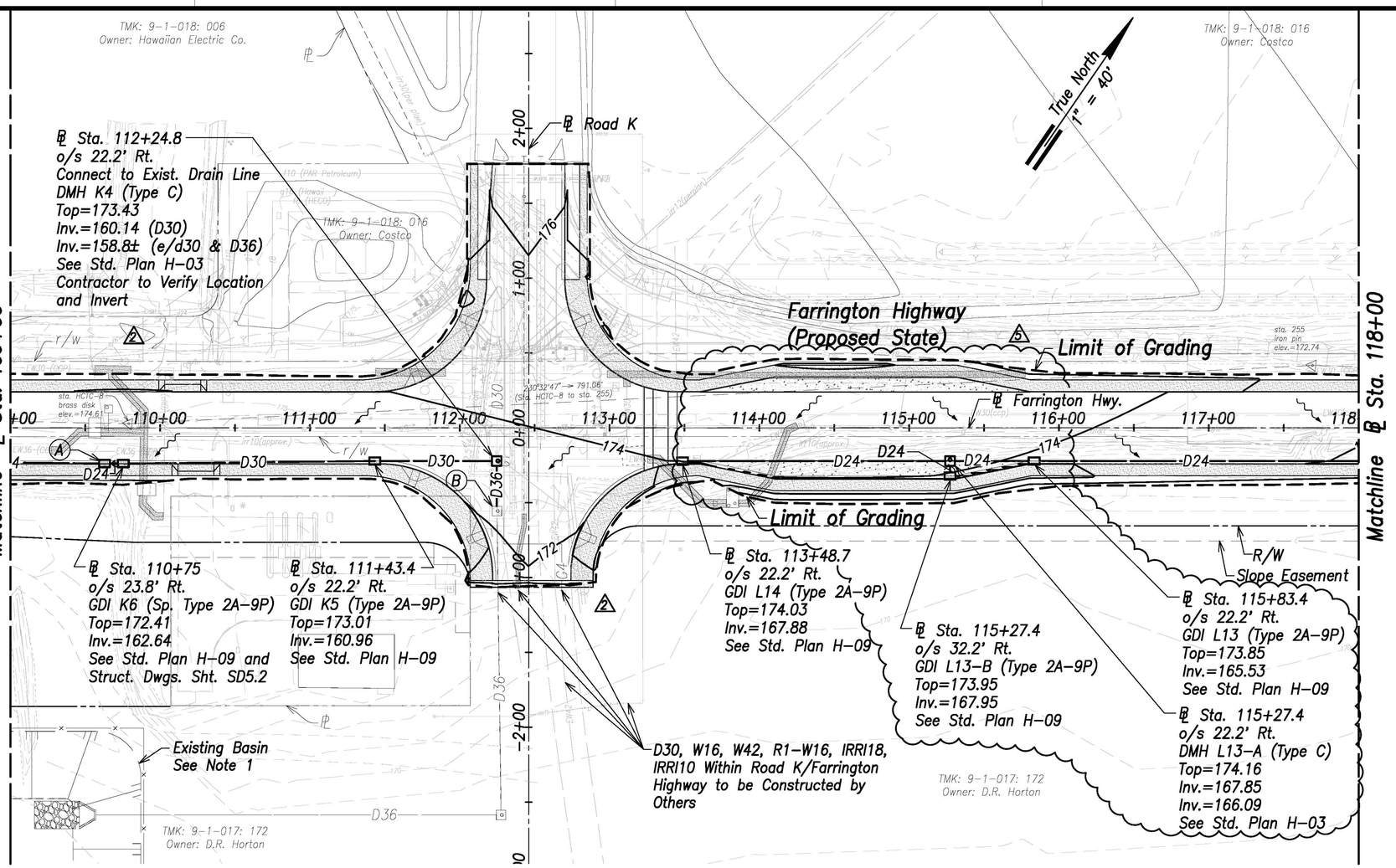
Grading and Drainage Plan
℄ Sta. 100+00 to ℄ Sta. 109+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

FILE: \\PMTC-FS\1project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-97 Grading and Drainage Plan - Sta. 100+00 to 109+00.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	99	767



Grading and Drainage Plan – (℄ Sta. 109+00 to ℄ Sta. 118+00)

Scale: 1" = 40'

(A)

℄ Sta. 109+63
o/s 23.8' Rt.
GDI K6-A (Sp. Type 2A-9P)
Top=172.41
Inv.=162.76
See Std. Plan H-09 and
Struct. Dwgs. Sht. SD5.2

(B)

℄ Sta. 112+24.8
o/s 55.5' Rt.
Conn. To Exist. DMH K3
Inv.=158.2± (e/D36 & D36)

Notes:

1. Future drain line, manhole and basin improvements to be constructed by others under the project plans prepared by the R.M. Towill Corp., titled "Ho'opili Development – Industrial Mixed Use Intersection Improvements", Construction Plan File No. 2017/CP-307 (Subd. File No. 2018/SUB-187, 2018/SUB-201) and "Ho'opili Industrial Mixed Use (IMX) Subdivision Mass Grading and Infrastructure Improvements", Construction Plan File No. 2020/CP-66 (Subd. File No. 2019/SUB-162)
2. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
3. See Access to Farm Lots notes on sheet C-3.

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
07/15/22	5 Add Bus Bay and DMH. Rev. GDI's.
06/08/22	2 Revised drain line; Revised road stub grading

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 109+00 to ℄ Sta. 118+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE — April 30, 2024 EXPIRATION DATE OF THE LICENSE

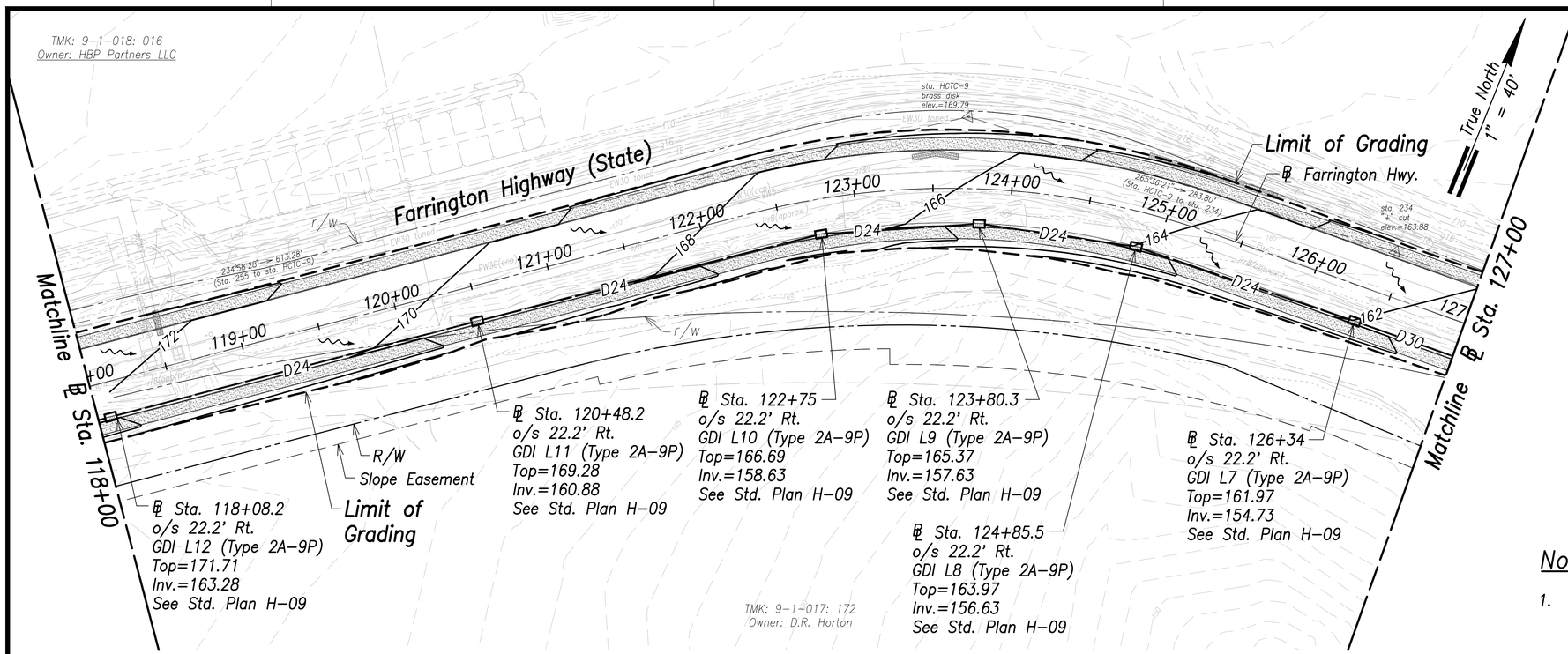
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	SURVEY BY	
	PLOTTED BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

SHEET No. C-98 OF 767 SHEETS

ADD. 99

FILE: K:\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-98 Grading and Drainage Plan - Sta. 109+00 to 118+00.dwg saved july 11, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	100	767



Grading and Drainage Plan – (℄ Sta. 118+00 to ℄ Sta. 127+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

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SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

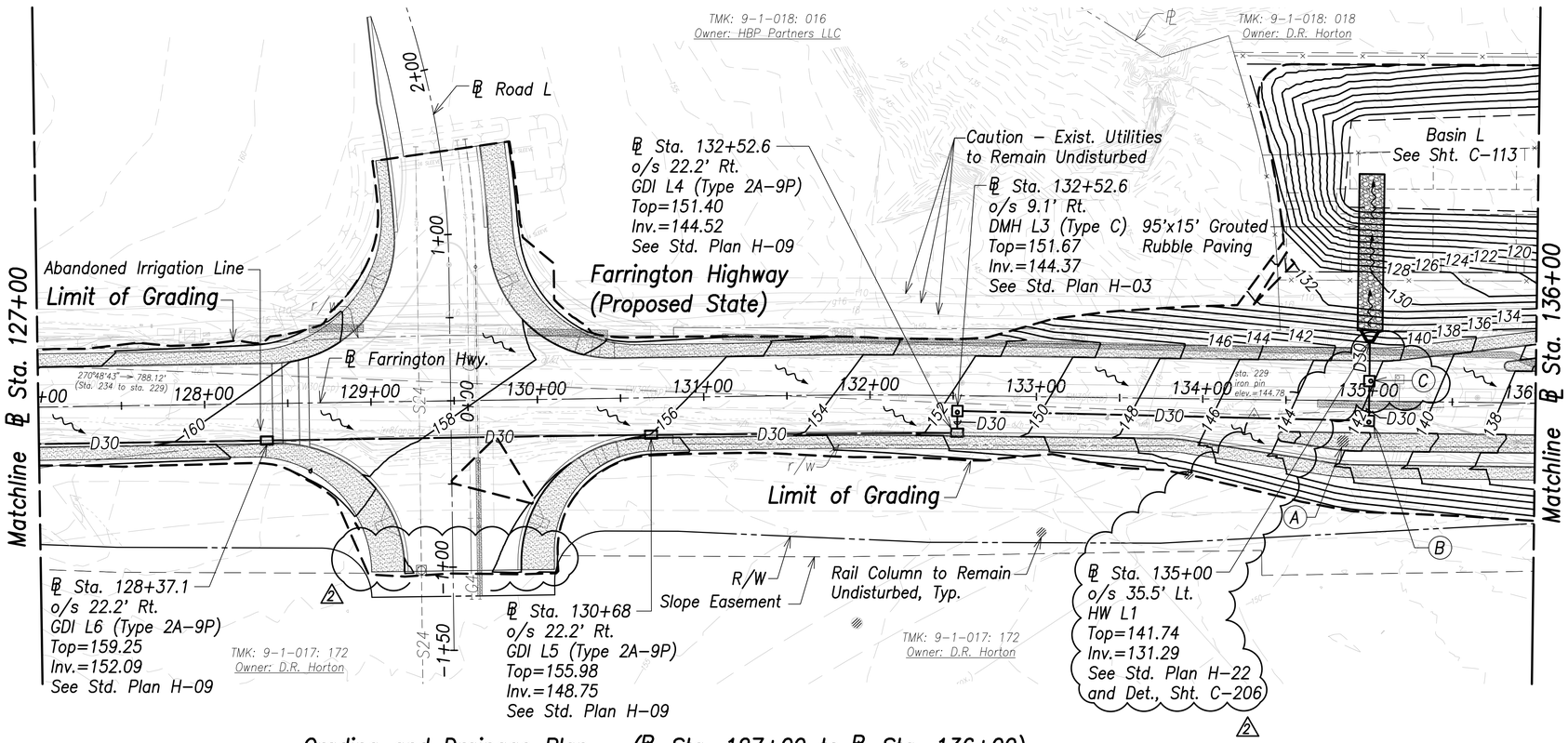
Grading and Drainage Plan
℄ Sta. 118+00 to ℄ Sta. 127+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown — Date: April 2022

FILE: \\DOTC-FS\project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-99 Grading and Drainage Plan – Sta. 118+00 to 127+00.dwg saved April 14, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	101	767



Grading and Drainage Plan – (℄ Sta. 127+00 to ℄ Sta. 136+00)

Scale: 1" = 40'

(A)

Conn. to Exist. Downspout
See Det., Sht. C-205

(B)

℄ Sta. 135+00
o/s 11.1' Rt.
DMH L2 (Type C)
Top=141.69
Inv.=135.69
See Std. Plan H-03

(C)

℄ Sta. 135+00
o/s 12.0' Lt.
DMH L1-1 (Type C)
Top=142.15
Inv.=135.45
Inv. Outlet=131.52
See Det., Sht. C-205

Note:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. Contractor Shall Locate Guardrail Posts to Provide 2' Min. Clear From Drain Utilities and Cleanout.

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	2 Added DMH; Revised drain line; Revised road stub grading

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 127+00 to ℄ Sta. 136+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

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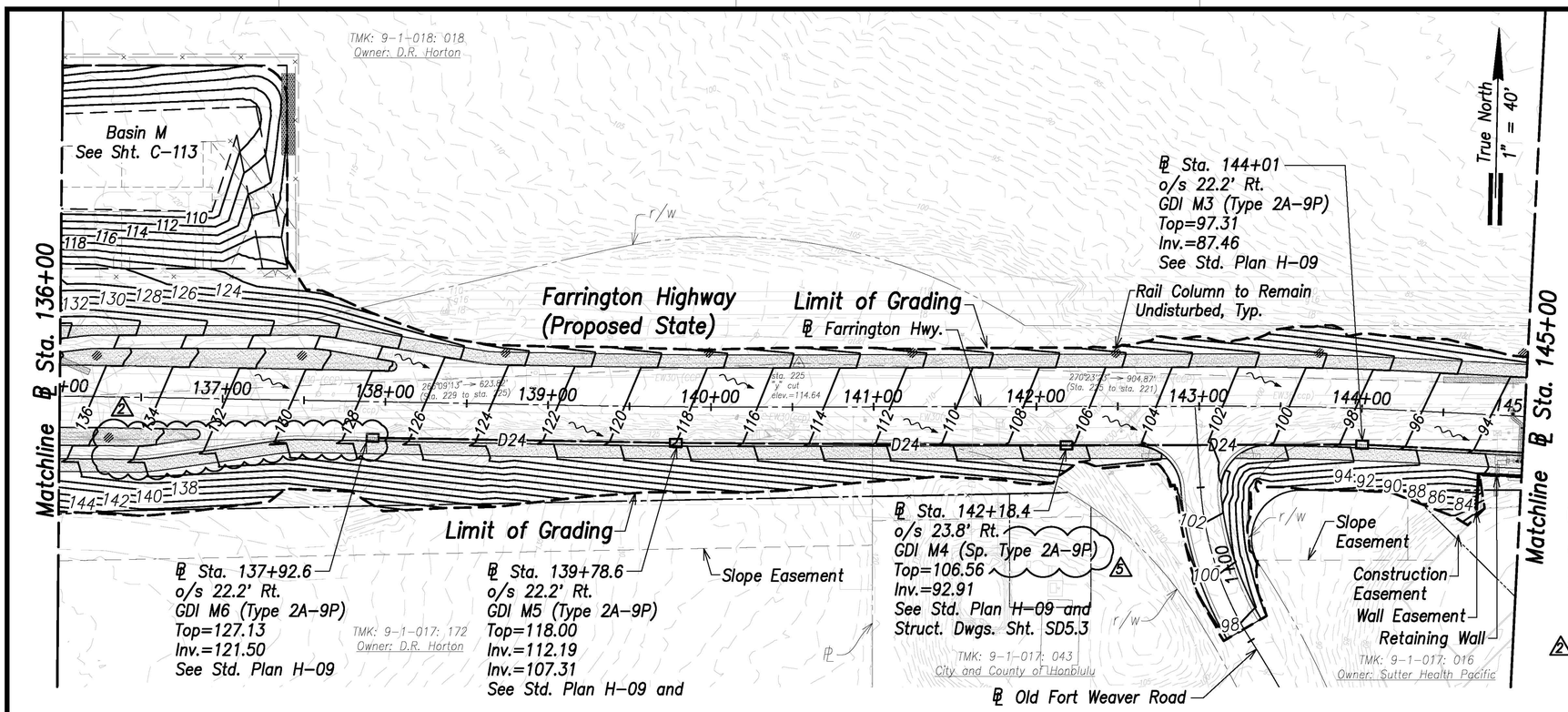
SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

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

SHEET No. C-100 OF 767 SHEETS

FILE: \\RMTC-FS\project\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-100 Grading and Drainage Plan – Sta. 127+00 to 136+00.dwg saved June 3, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021	102	767



Grading and Drainage Plan – (℄ Sta. 136+00 to ℄ Sta. 145+00)

Scale: 1" = 40'

Note:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. Contractor Shall Locate Guardrail Posts to Provide 2' Min. Clear From Drain Utilities.
3. Grading along the makai shoulder between Old Fort Weaver Road (West) and Honouliuli Stream Bridge, and construction of Retaining Wall must be completed within four months of receiving Notice to Proceed. The Contractor shall coordinate work with HECo.

Legend:

- 70 — Existing Grade Contour
- 100 — Finished Grade Contour
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
07/15/22	5 Revised GDI Type
06/08/22	2 Removed drain line and blocks, added notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 136+00 to ℄ Sta. 145+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6635-C
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2024

ORIGINAL PLAN — SURVEY PLOTTED BY / TRACED BY / DESIGNED BY / QUANTITIES BY / CHECKED BY — DATE

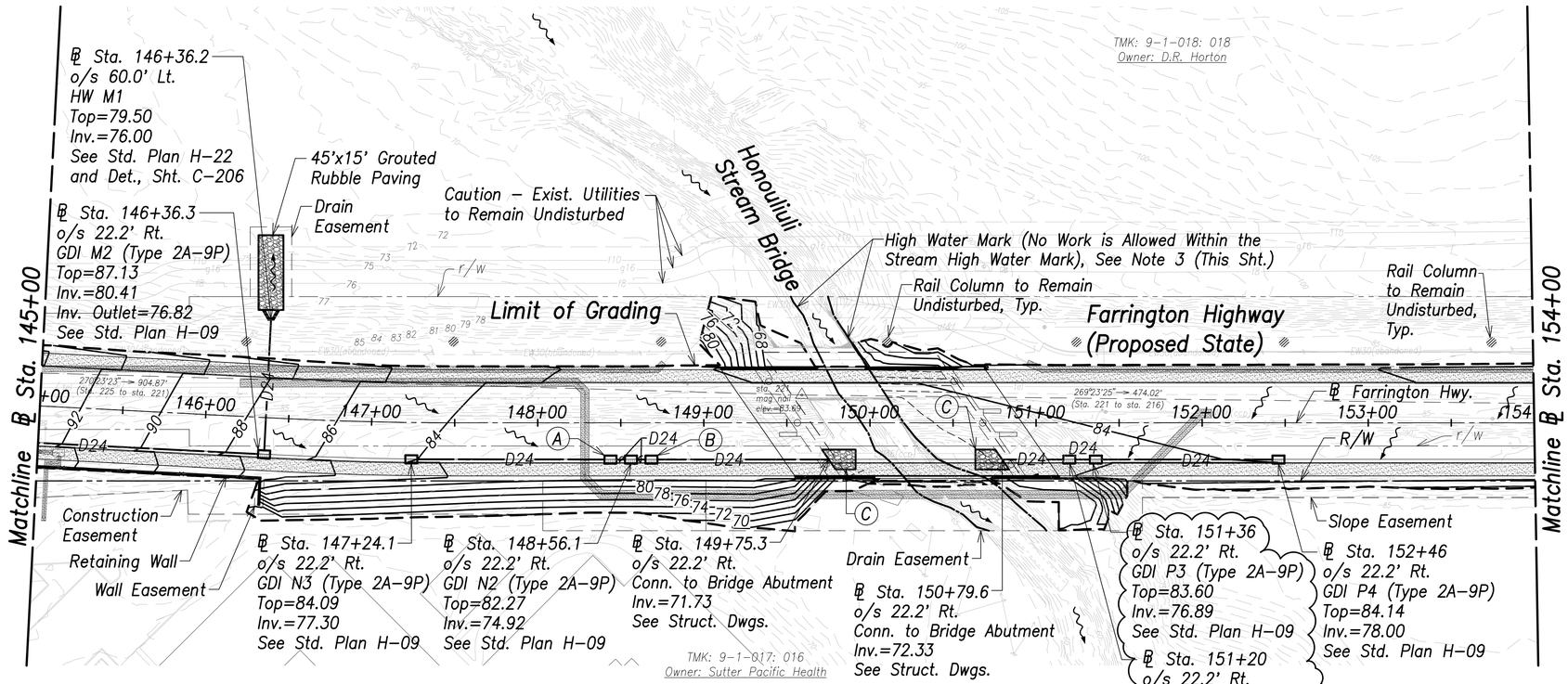
NOTE BOOK No.

SHEET No. C-101 OF 767 SHEETS

ADD. 102

FILE: K:\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-101 Grading and Drainage Plan - Sta. 136+00 to 145+00.dwg saved July 18, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAI'I	HAW.	7101A-01-20	2021	103	767



Grading and Drainage Plan – (℄ Sta. 145+00 to ℄ Sta. 154+00)

Scale: 1" = 40'

(A)

℄ Sta. 148+43.8
o/s 22.2' Rt.
GDI N2-A (Type 2A-9P)
Top=82.28
Inv.=75.14
See Std. Plan H-09

(B)

℄ Sta. 148+68.5
o/s 22.2' Rt.
GDI N2-B (Type 2A-9P)
Top=82.28
Inv.=74.59
See Std. Plan H-09

(C)

20'x12' Grouted
Rubble Paving

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. See Access to Farm Lots notes on sheet C-3.
3. Work Within Honouliuli Stream Up to High Water Mark is Prohibited.
4. Grading along the makai shoulder between Old Fort Weaver Road (West) and Honouliuli Stream Bridge, and construction of Retaining Wall must be completed within four months of receiving Notice to Proceed. The Contractor shall coordinate work with HECo. (2)

Legend:

- 70 — Ground Contour
- 100 — Finished Grade Contour
- 70 — Finished Grade Contour (Under Bridge)
- Limit of Grading
- Existing Flow

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
06/08/22	(2) Revised GDIs, added note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 145+00 to ℄ Sta. 154+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE: April 30, 2022

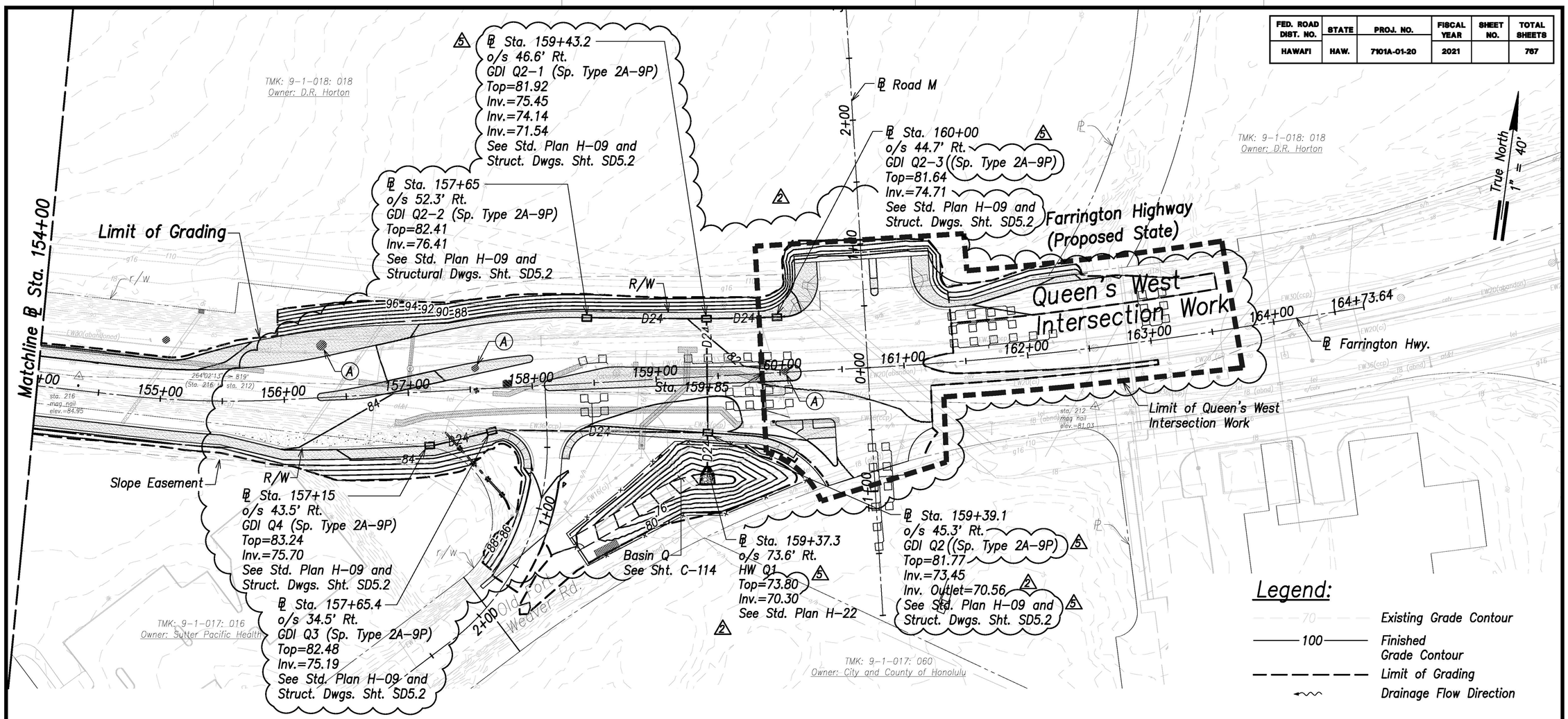
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

SHEET No. C-102 OF 767 SHEETS

ADD. 103

FILE: \\RMTC-FS\project\Civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-102 Grading and Drainage Plan – Sta. 145+00 to 154+00.dwg saved June 3, 2022

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021		767



Legend:

- Existing Grade Contour (70)
- Finished Grade Contour (100)
- Limit of Grading
- Drainage Flow Direction

Graphic Scale:

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

(A) Construct Splash Block
See Det., Sht. C-205

Grading and Drainage Plan – (℄ Sta. 154+00 to ℄ Sta. 165+00)

Scale: 1" = 40'

Notes:

1. The Contractor Shall Construct/Phase Drainage Improvements to Avoid Flooding Adjacent Properties and Washout of Roadway.
2. Contractor Shall Locate Guardrail Posts to Provide 2' Min. Clear From Drain Utilities and Cleanout.
3. See Access to Farm Lots notes on sheet C-3.

DATE	REVISION
07/15/22	5 Added bus pullouts; Revised drain structures and headwall height
06/08/22	2 Revised HW Q1 and GDI Q2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Grading and Drainage Plan
℄ Sta. 154+00 to ℄ Sta. 165+00

FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road
Project No. 7101A-01-20

Scale: As Shown Date: April 2022

CRAIG W. L. LUKE
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SIGNATURE April 30, 2024 EXPIRATION DATE OF THE LICENSE

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

SHEET No. C-103 OF 767 SHEETS

ADD. 104

FILE: K:\civil\23146 Farrington Hwy Widening\Dwg\Construction Dwgs\C-103 Grading and Drainage Plan - Sta. 154+00 to 165+00.dwg saved July 18, 2022