

Date: July 23, 2021

Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street, HMB, 7th Floor
Honolulu, Hawaii 96813

Dear Madam/Sir:

Subject: Surface Runoff from Construction Activities entering into City's Storm Sewer System

Pursuant to Section 11-55-04, Chapter 11-55, Water Pollution Control, Hawaii Administrative Rules, as amended, we are required to obtain coverage under National Pollutant Discharge Elimination System (NPDES) Permit Program from State Department of Health (DOH) for storm water discharges associated with construction activities. Since surface runoff of storm water from above activities will enter into city's storm sewer system, we are providing the following information for your use:

1. Owner/Lessee Information (owner of facility or activity):

Legal Name: State of Hawaii, Department of Transportation, Highways Division (HDOT-HWY)

Street Address: 869 Punchbowl Street

City, State and Zip Code: Honolulu, Hawaii 96813-5097

Contact Person & Title: Jade T. Butay, Director of Transportation

Phone No.: (808) 587-2150

Fax No.: (808) 587-2167

2. Facility/Project Information:

Farrington Highway Widening,

Facility/Project Name: Kapolei Golf Course Road to Fort Weaver Road

Street Address: The project is located on Farrington Highway, between Kapolei Golf Course Road and Fort Weaver Road.

City, State and Zip Code: Ewa, Hawaii 96706

Tax Map Key: (1) 9-1-016:004, 007, 008, 179, 182, 183, 220, 221; (1) 9-1-017:043, 070, 097, 099, 172; (1) 9-1-018:006 through 009, 012 through 016, 018; (1) 9-1-081:006 & 022

Type of Existing/Proposed Facility/Activity: Road Construction and Linear Unity

City drainage facility(ies) discharge will be entering: City and County of Honolulu

Contact Person & Title: Lawrence Laus, P.E., Design Project Manager

Phone No.: (808) 692-7575

Fax No.: N/A

3. Other Information:

Estimated Rate of Discharge (for 10 yrs, 1 hr storm event): 186.08 cfs

Estimated Duration of Discharge: 1 hour

Estimated Size of Disturbed Area 46.50 acres

Has the Dept. of Health NPDES permit been applied: Yes No

Has the Dept. of Health NPDES permit been approved: Yes No
(If yes, attach a copy of the permit/NGPC)

4. The following is attached as required in accordance to the City and County of Honolulu, Rules Relating to Soil Erosion Standards and Guidelines, April 1999:

Erosion Control Plan (for categories 4 and 5)

Site Specific BMP's (for categories 1, 2, and 3)

Other (_____)

Should you need any clarification or more information, please call Jade T. Butay
at (808) 587-2150.

I certify under penalty of law that the information contained herein is true, accurate, and complete to the best of my knowledge and belief.

Very truly yours,



Owner/Lessee (Signature)

Jade T. Butay

Print Name

Attachment(s)

For Official Use Only:

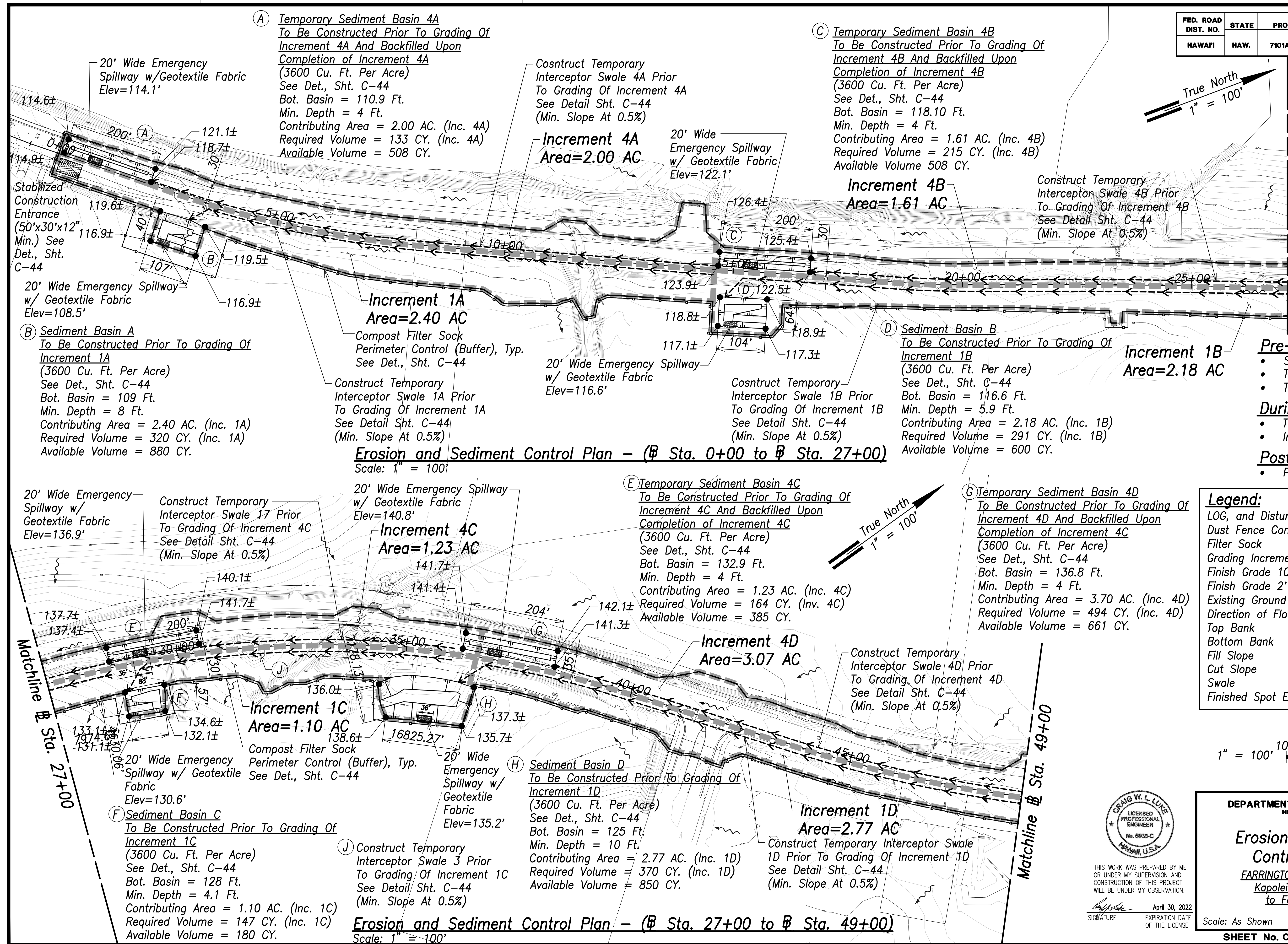
DPP Project Reference No. 20___ CP- _____

Date Received Surface Runoff Form: _____

Accepted by: _____

- ECP or BMP approved on: / /
- The review, approval, and inspection of the BMP for the OTR project shall be the responsibility of the above City agency.
- The review, approval, and inspection of the BMP for the government project not reviewed by DPP shall be the responsibility of the above City agency.

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



(A) Temporary Sediment Basin 4A
 To Be Constructed Prior To Grading Of Increment 4A And Backfilled Upon Completion of Increment 4A
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 110.9 Ft.
 Min. Depth = 4 Ft.
 Contributing Area = 2.00 AC. (Inc. 4A)
 Required Volume = 133 CY. (Inc. 4A)
 Available Volume = 508 CY.

(C) Temporary Sediment Basin 4B
 To Be Constructed Prior To Grading Of Increment 4B And Backfilled Upon Completion of Increment 4B
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 118.10 Ft.
 Min. Depth = 4 Ft.
 Contributing Area = 1.61 AC. (Inc. 4B)
 Required Volume = 215 CY. (Inc. 4B)
 Available Volume = 508 CY.

(B) Sediment Basin A
 To Be Constructed Prior To Grading Of Increment 1A
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 109 Ft.
 Min. Depth = 8 Ft.
 Contributing Area = 2.40 AC. (Inc. 1A)
 Required Volume = 320 CY. (Inc. 1A)
 Available Volume = 880 CY.

Increment 1A
 Area=2.40 AC
 Compost Filter Sock Perimeter Control (Buffer), Typ. See Det., Sht. C-44
 Construct Temporary Interceptor Swale 1A Prior To Grading Of Increment 1A See Detail Sht. C-44 (Min. Slope At 0.5%)

Increment 4A
 Area=2.00 AC

Increment 4B
 Area=1.61 AC

Increment 1B
 Area=2.18 AC

(D) Sediment Basin B
 To Be Constructed Prior To Grading Of Increment 1B
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 116.6 Ft.
 Min. Depth = 5.9 Ft.
 Contributing Area = 2.18 AC. (Inc. 1B)
 Required Volume = 291 CY. (Inc. 1B)
 Available Volume = 600 CY.

Erosion and Sediment Control Plan - (Sta. 0+00 to Sta. 27+00)
 Scale: 1" = 100'

(E) Temporary Sediment Basin 4C
 To Be Constructed Prior To Grading Of Increment 4C And Backfilled Upon Completion of Increment 4C
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 132.9 Ft.
 Min. Depth = 4 Ft.
 Contributing Area = 1.23 AC. (Inc. 4C)
 Required Volume = 164 CY. (Inc. 4C)
 Available Volume = 385 CY.

Increment 4C
 Area=1.23 AC

(G) Temporary Sediment Basin 4D
 To Be Constructed Prior To Grading Of Increment 4D And Backfilled Upon Completion of Increment 4D
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 136.8 Ft.
 Min. Depth = 4 Ft.
 Contributing Area = 3.70 AC. (Inc. 4D)
 Required Volume = 494 CY. (Inc. 4D)
 Available Volume = 661 CY.

Increment 4D
 Area=3.07 AC

(F) Sediment Basin C
 To Be Constructed Prior To Grading Of Increment 1C
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 128 Ft.
 Min. Depth = 4.1 Ft.
 Contributing Area = 1.10 AC. (Inc. 1C)
 Required Volume = 147 CY. (Inc. 1C)
 Available Volume = 180 CY.

Increment 1C
 Area=1.10 AC

(H) Sediment Basin D
 To Be Constructed Prior To Grading Of Increment 1D
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 125 Ft.
 Min. Depth = 10 Ft.
 Contributing Area = 2.77 AC. (Inc. 1D)
 Required Volume = 370 CY. (Inc. 1D)
 Available Volume = 850 CY.

Increment 1D
 Area=2.77 AC

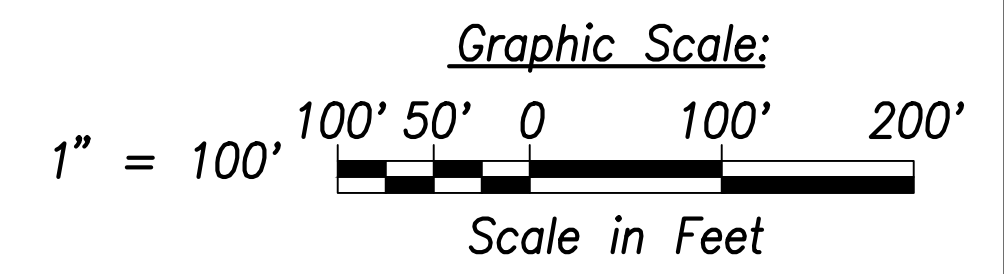
(J) Construct Temporary Interceptor Swale 3
 Prior To Grading Of Increment 1C
 See Detail Sht. C-44 (Min. Slope At 0.5%)

Erosion and Sediment Control Plan - (Sta. 27+00 to Sta. 49+00)
 Scale: 1" = 100'

- Pre-Construction BMP**
- Stabilized Compost Filter Sock
 - Temporary Sediment Basins
 - Temporary Swales
- During Construction BMP**
- Temporary Stabilization
 - Inlet Protection for New CB
- Post Construction BMP**
- Permanent Stabilization BMP

Legend:

LOG, and Disturbance	---
Dust Fence Composite	—
Filter Sock	—□—
Grading Increment Boundary	▬▬▬▬
Finish Grade 10' Contour	—30—
Finish Grade 2' Contour	—30—
Existing Ground Contour	30
Direction of Flow	→
Top Bank	—
Bottom Bank	—
Fill Slope	Y Y Y
Cut Slope	Y Y Y
Swale	←
Finished Spot Elevation	●-126.4±



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

CRAG 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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

Erosion and Sediment Control Plan - 1
 FARRINGTON HIGHWAY WIDENING
 Kapolei Golf Course Road
 to Fort Weaver Road

Scale: As Shown Date: May 2021
SHEET No. C-38 OF SHEETS

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

(A) Temporary Sediment Basin 5A
 To Be Constructed Prior To Grading Of Increment 5A And Backfilled Upon Completion of Increment 5A
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 153.3 Ft.
 Min. Depth = 4 Ft.
 Contributing Area = 3.18 AC. (Inc. 5A)
 Required Volume = 424 CY. (Inc. 5A)
 Available Volume = 661 CY.

(B) Sediment Basin E
 To Be Constructed Prior To Grading Of Increment 2A
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 147.9 Ft.
 Min. Depth = 7.1 Ft.
 Contributing Area = 4.04 AC. (Inc. 2A)
 Required Volume = 539 CY. (Inc. 2A)
 Available Volume = 345 CY. (1,855 Total Inc. 2A)

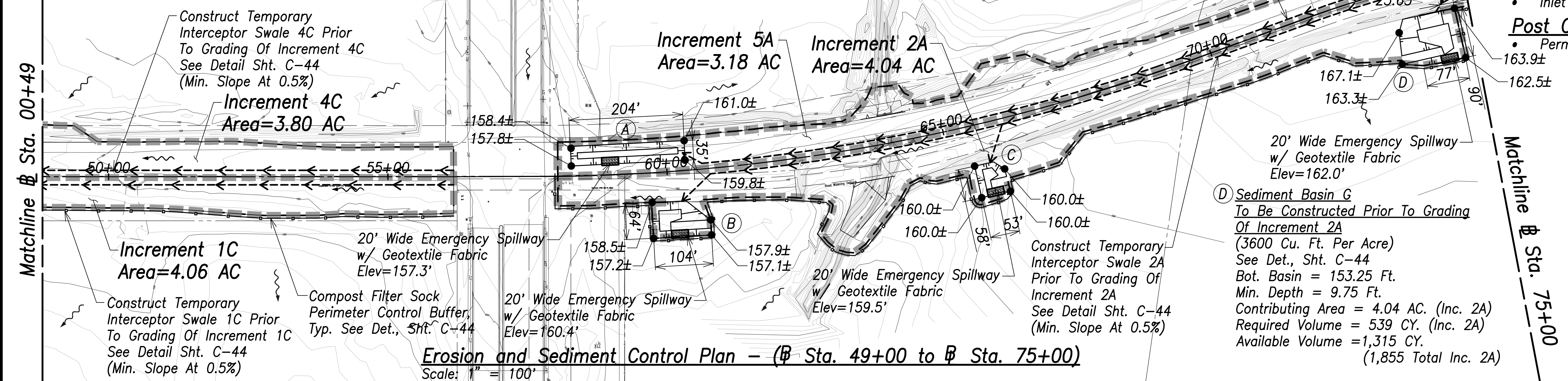
(C) Sediment Basin F
 To Be Constructed Prior To Grading Of Increment 2A
 (3600 Cu. Ft. Per Acre)
 See Det., Sht. C-44
 Bot. Basin = 156 Ft.
 Min. Depth = 5 Ft.
 Contributing Area = 4.04 AC. (Inc. 2A)
 Required Volume = 539 CY. (Inc. 2A)
 Available Volume = 195 CY. (1,855 Total Inc. 2A)

Construct Temporary Interceptor Swale 5A Prior To Grading Of Increment 5A
 See Detail Sht. C-44
 (Min. Slope At 0.5%)

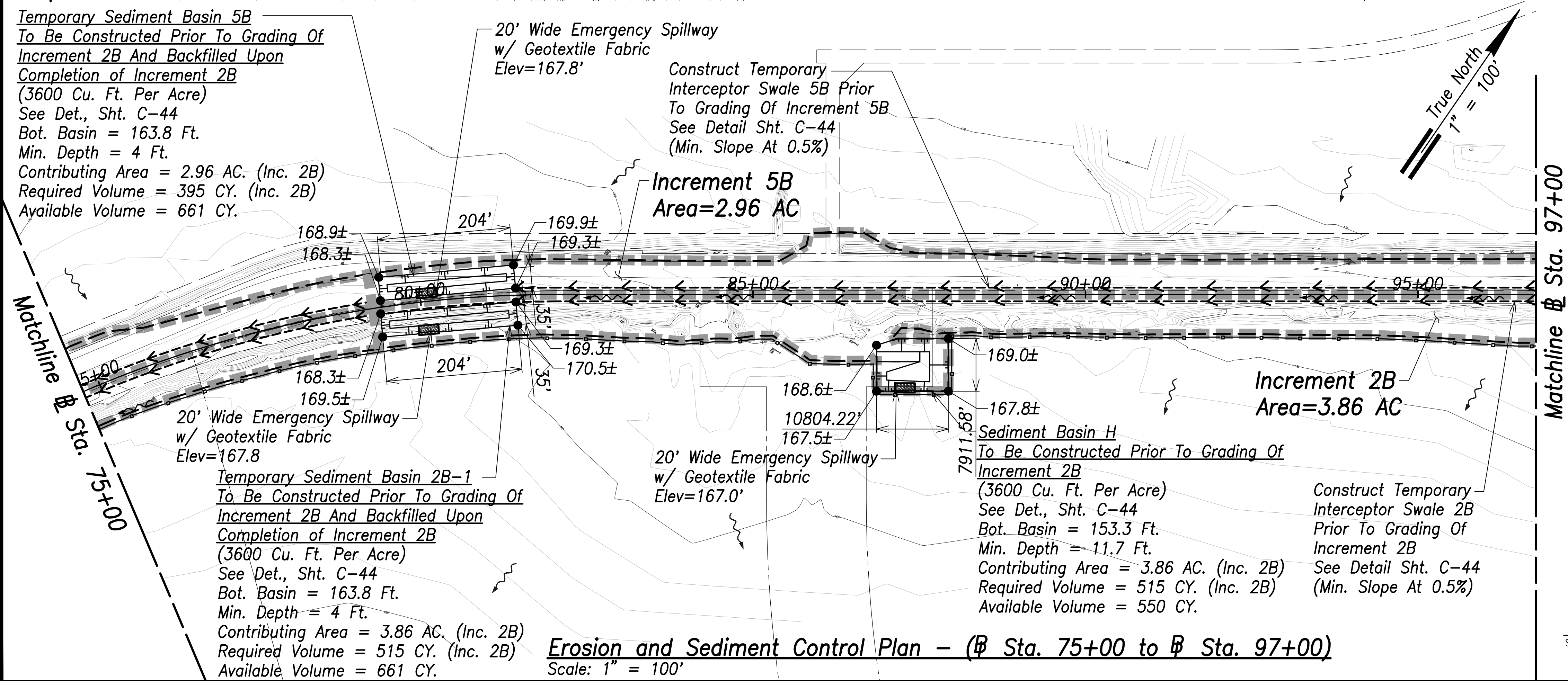
- Pre-Construction BMP**
- Stabilized Compost Filter Sock
 - Temporary Sediment Basins
 - Temporary Swales

- During Construction BMP**
- Temporary Stabilization
 - Inlet Protection for New CB

- Post Construction BMP**
- Permanent Stabilization BMP



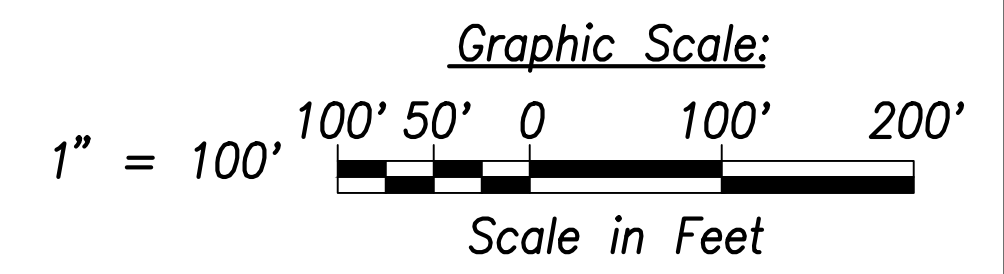
Erosion and Sediment Control Plan - (Sta. 49+00 to Sta. 75+00)
 Scale: 1" = 100'



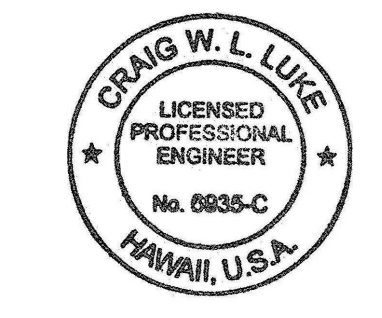
Erosion and Sediment Control Plan - (Sta. 75+00 to Sta. 97+00)
 Scale: 1" = 100'

Legend:

LOG, and Disturbance	---
Dust Fence Composite	—
Filter Sock	—○—
Grading Increment Boundary	—■—
Finish Grade 10' Contour	—30—
Finish Grade 2' Contour	—
Existing Ground Contour	30
Direction of Flow	~>
Top Bank	—
Bottom Bank	—
Fill Slope	Y Y Y
Cut Slope	Y Y Y
Swale	←
Finished Spot Elevation	●-126.4±



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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
 April 30, 2022
 EXPIRATION DATE OF THE LICENSE

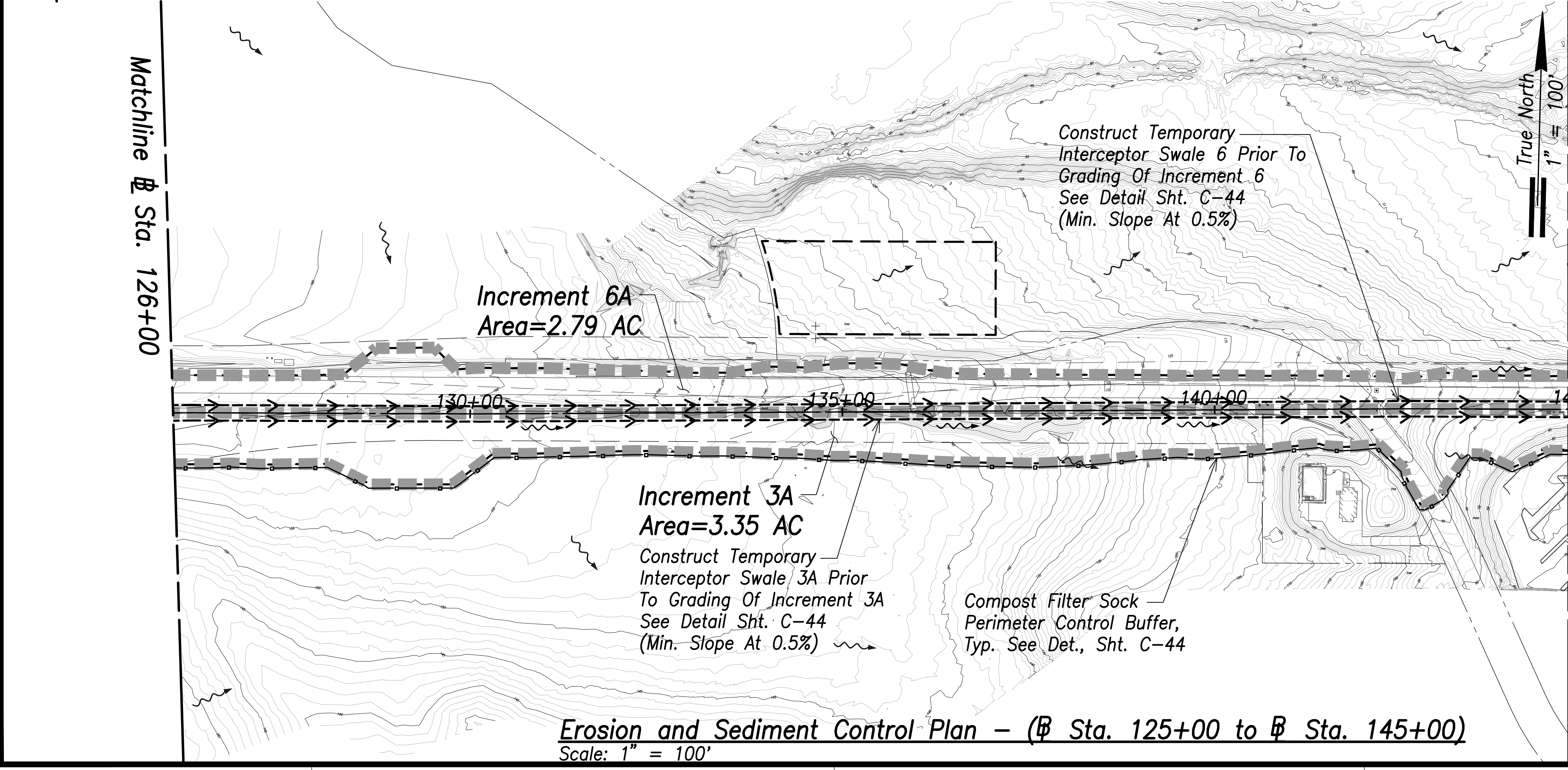
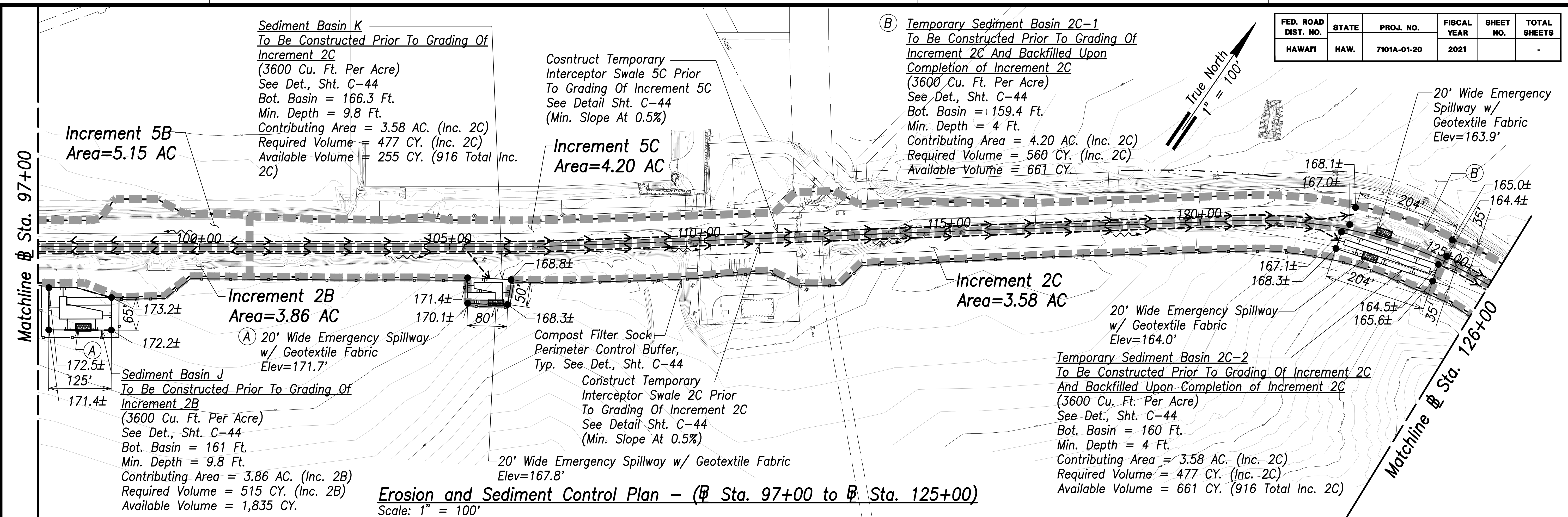
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

Erosion and Sediment Control Plan - 2
 FARRINGTON HIGHWAY WIDENING
 Kapolei Golf Course Road to Fort Weaver Road

Scale: As Shown Date: May 2021

SHEET No. C-39 OF SHEETS

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



Legend:

- LOG, and Disturbance
- Dust Fence Composite
- Filter Sock
- Grading Increment Boundary
- Finish Grade 10' Contour
- Finish Grade 2' Contour
- Existing Ground Contour
- Direction of Flow
- Top Bank
- Bottom Bank
- Fill Slope
- Cut Slope
- Swale
- Finished Spot Elevation

Pre-Construction BMP

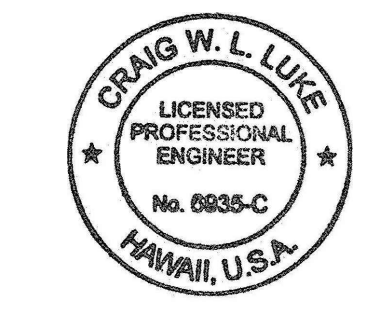
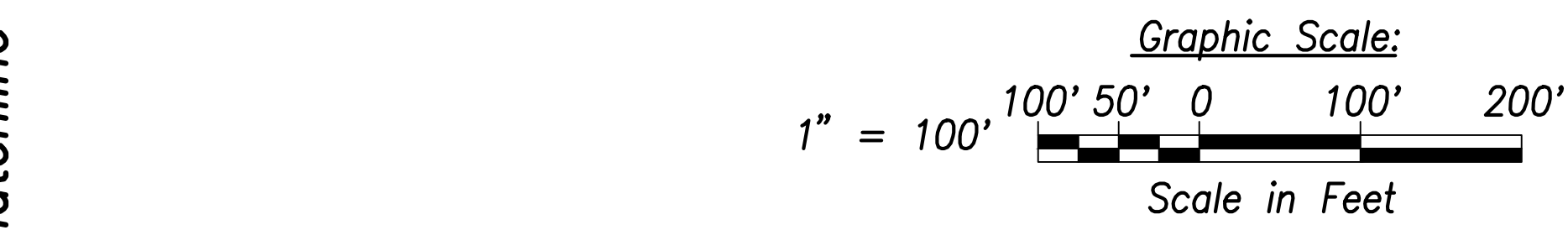
- Stabilized Compost Filter Sock
- Temporary Sediment Basins
- Temporary Swales

During Construction BMP

- Temporary Stabilization
- Inlet Protection for New CB

Post Construction BMP

- Permanent Stabilization BMP



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

Craig W. L. Luke
SIGNATURE
April 30, 2022
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

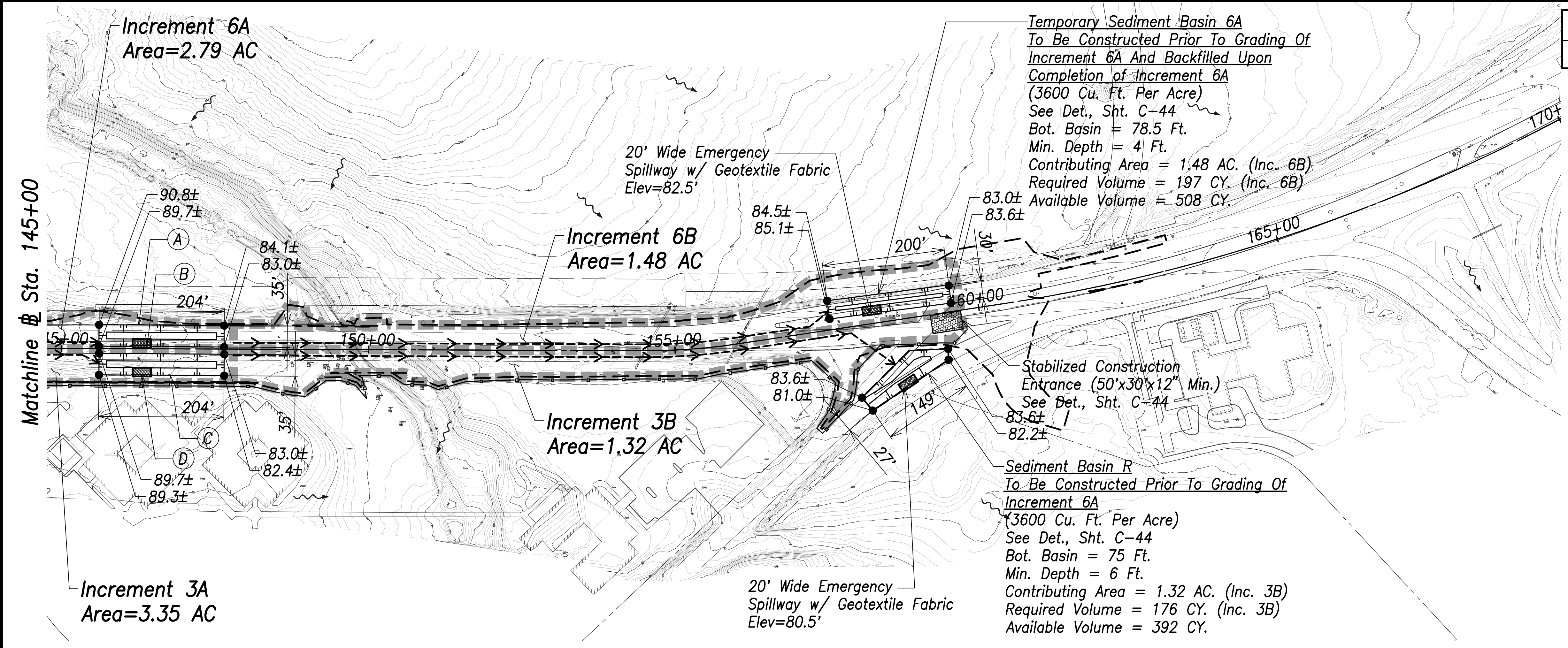
Erosion and Sediment Control Plan - 3
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road
to Fort Weaver Road

Scale: As Shown Date: May 2021

SHEET No. C-40 OF - SHEETS

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

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



True North
1" = 100'

Erosion and Sediment Control Plan - (Sta. 145+00 to Sta. 163+25)
Scale: 1" = 100'

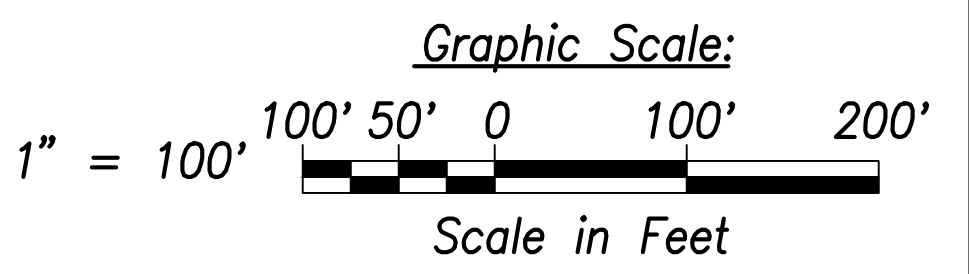
- (A) **Temporary Sediment Basin 6A**
To Be Constructed Prior To Grading Of Increment 6A And Backfilled Upon Completion of Increment 6A
(3600 Cu. Ft. Per Acre)
See Det., Sht. C-44
Bot. Basin = 78.5 Ft.
Min. Depth = 4 Ft.
Contributing Area = 2.79 AC. (Inc. 6A)
Required Volume = 372 CY. (Inc. 6A)
Available Volume = 661 CY.
- (B) 20' Wide Emergency Spillway w/ Geotextile Fabric
Elev=82.5'
- (C) **Temporary Sediment Basin 3A**
To Be Constructed Prior To Grading Of Increment 3A And Backfilled Upon Completion of Increment 3A
(3600 Cu. Ft. Per Acre)
See Det., Sht. C-44
Bot. Basin = 77.9 Ft.
Min. Depth = 4 Ft.
Contributing Area = 3.35 AC. (Inc. 3A)
Required Volume = 447 CY. (Inc. 3A)
Available Volume = 661 CY.
- (D) 20' Wide Emergency Spillway w/ Geotextile Fabric
Elev=81.9'

- Temporary Sediment Basin 6A**
To Be Constructed Prior To Grading Of Increment 6A And Backfilled Upon Completion of Increment 6A
(3600 Cu. Ft. Per Acre)
See Det., Sht. C-44
Bot. Basin = 78.5 Ft.
Min. Depth = 4 Ft.
Contributing Area = 1.48 AC. (Inc. 6B)
Required Volume = 197 CY. (Inc. 6B)
Available Volume = 508 CY.
- Sediment Basin R**
To Be Constructed Prior To Grading Of Increment 6A
(3600 Cu. Ft. Per Acre)
See Det., Sht. C-44
Bot. Basin = 75 Ft.
Min. Depth = 6 Ft.
Contributing Area = 1.32 AC. (Inc. 3B)
Required Volume = 176 CY. (Inc. 3B)
Available Volume = 392 CY.

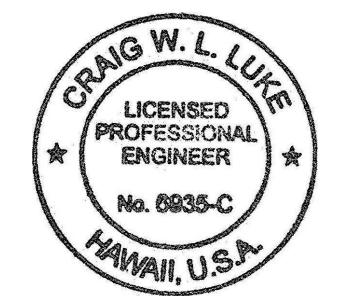
- Pre-Construction BMP**
 - Stabilized Compost Filter Sock
 - Temporary Sediment Basins
 - Temporary Swales
- During Construction BMP**
 - Temporary Stabilization
 - Inlet Protection for New CB
- Post Construction BMP**
 - Permanent Stabilization BMP

Legend:

LOG, and Disturbance	----
Dust Fence Composite	----
Filter Sock	—○—
Grading Increment Boundary	▬▬▬▬
Finish Grade 10' Contour	—30—
Finish Grade 2' Contour	—30—
Existing Ground Contour	—30—
Direction of Flow	~~~~>
Top Bank	----
Bottom Bank	----
Fill Slope	Y Y Y
Cut Slope	
Swale	←←←
Finished Spot Elevation	●-126.4±



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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
Signature: [Signature]
EXPIRATION DATE OF THE LICENSE: April 30, 2022

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Erosion and Sediment Control Plan - 4
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road
to Fort Weaver Road

Scale: As Shown Date: May 2021

Good Housekeeping BMPs Notes:

1. Street Sweeping and Vacuuming.

All pollutants discharged from construction site to off-site areas must be swept or vacuumed each day before leaving the job site.

2. Materials Delivery, Storage and Use Management.

Prevent, reduce, or eliminate the discharge of pollutants from material delivery, storage, and use to the storm water system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in a designated area, installing secondary containment. Construction materials, waste, toxic and hazardous substances, stockpiles and other sources of pollution shall not be stored in buffer areas, near areas of concentrated flow, or areas abutting the ms4, receiving waters, or drainage improvements that discharge off-site. Primary and secondary containment controls and covers shall be implemented to the maximum extent practical (MEP).

3. Spill Prevention and Control.

Create and implement spill prevention and response plans to eliminate and minimize the discharge of pollutants to the MS4 and receiving waters from leaks and spills by reducing the chance for spills, absorbing, containing, and cleaning up spills and properly disposing of spill materials. at a minimum, all projects shall cleanup all leaks and spills immediately.

4. Hazardous Materials.

prevent or reduce the discharge of pollutants to storm water from hazardous waste through proper material use and waste disposal. in the event that hazardous materials are discharged to the ms4, the property owner or escp coordinator shall immediately notify the department of facilities maintenance, honolulu fire department, and honolulu police department of the discharge by telephone. a written report describing the pollutants that were discharged, the reasons for the discharge, and the measures that have been taken or will be taken to prevent a reoccurrence of the discharge shall be submitted to the director no less than 3 days after notification by phone.

5. Nonhazardous Materials.

In the event that nonhazardous materials are discharged to the MS4, the property owner or ESCP coordinator shall notify the city department of facilities maintenance by telephone no later than the next business day. A written report describing the pollutants that were discharged, the reasons for the discharge, and the measures that have been taken or will be taken to prevent a reoccurrence of the discharge shall be submitted to the director no less than 3 days after notification by phone.

6. Vehicle and Equipment Cleaning.

Eliminate and minimize the discharge of pollutants to storm water from vehicle and equipment cleaning operations by using off-site facilities when feasible, washing in designated, contained areas only, and eliminating discharges to the storm drain system by evaporating and/or treating wash water, as appropriate or infiltrating wash water for exterior cleaning activities that use water only.

7. Vehicle and Equipment Fueling.

Prevent fuel spills and leaks by using off-site facilities, fueling only in designated areas, enclosing or covering stored fuel, and implementing spill controls such as secondary containment and active measures using spill response kits.

Good Housekeeping BMPs Notes (Cont'd)

8. Vehicle and Equipment Maintenance.

Eliminate and minimize the discharge of pollutants to storm water from vehicle and equipment maintenance operations by using off-site facilities when feasible, performing work in designated areas only, using spill pads under vehicles and equipment, checking for leaks and spills, and containing and cleaning up spills immediately.

9. Solid Waste Management.

Prevent or reduce discharge of pollutants to the land, groundwater, and in storm water from solid waste or construction and demolition waste by providing designated waste collection areas, collect site trash daily, and ensuring that construction waste is collected, removed, and disposed of only at authorized disposal areas.

10. Sanitary/Septic Waste Management.

Temporary and portable sanitary and septic waste systems shall be mounted or staked in, well-maintained and scheduled for regular waste disposal and servicing. Sources of sanitary and/or septic waste shall not be stored near the MS4 or receiving waters.

11. Stockpile Management.

Stockpiles shall not be located in drainage ways, within 50 feet from areas of concentrated flows, and are not allowed in the City right-of-way. Sediment barriers or silt fences shall be used around the base of all stockpiles. Stockpiles shall not exceed 15 feet in height. Stockpiles greater than 15 feet in height shall require 8 foot wide benching in accordance with ROH Chapter 14, Article 15. stockpiles must be covered with plastic sheeting or a comparable material if they will not be actively used within 7 days.

12. Liquid Waste Management.

Liquid waste shall be contained in a controlled area such as a holding pit, sediment basin, roll-off bin, or portable tank of sufficient volume and to contain the liquid wastes generated. Containment areas or devices must be impermeable and leak free and should not be located where accidental release of the contained liquid can discharge to water bodies, channels, or storm drains.

13. Concrete Waste Management.

Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout offsite or performing onsite washout in a designated area constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 millimeter polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material. Containment areas or devices should not be located where accidental release of the contained liquid can discharge to water bodies, channels, or storm drains. Washout facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is 75 percent full. Once concrete wastes are washed into the designated area and allowed to harden, the concrete should be broken up, removed, and disposed of as solid wastes.

14. Contaminated Soil Management.

At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheeting. Contaminated soil should be disposed of properly in accordance with all applicable regulations.

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

Good Housekeeping BMPs Notes (Cont'd)

1. Dust Control.

The Contractor, at his own expense, shall provide effective measures for the control of dust from the project site and haul roads so it shall not be transported or discharged to off-site areas. The work must be in conformance with air pollution control standards contained in the Hawaii Administrative Rules: Title 11 Chapter 60.1, "Air Pollution Control".

2. BMP and Site Maintenance.

The contractor shall maintain temporary erosion control measures for the life of the project. The Contractor shall clean trash and debris around the surrounding area on a weekly basis.

Erosion and Sediment Control Plan Schedule and Rain Response Plan Notes:

Project Sequence:

1. Install stabilized construction entrances, perimeter controls, and temporary fencing for protected areas, clearing and grubbing as necessary for the installation of these BMPs.
2. Construct temporary sediment basins, stabilize immediately.
3. Construct temporary swales to direct runoff into the sediment basins. Stabilize immediately.
4. Install permanent drainage system with temporary inlet protection for inlets that do not drain to the sediment basins. Clear and grub as needed for installation.
5. Clear, grub and grade the site in 7 phases, sequentially in numerical order beginning with Increment 1. Relocate, Reconstruct and maintain bmps as needed to keep them effective at all times. Stabilization of the current phase is required prior to the start of the subsequent phase. Initiate temporary stabilization immediately once grading is completed in each phase.
6. Initiate stabilization of steep slopes (> 15%) with hydroseeding as soon as grading is completed on those areas. Install permanent irrigation system prior to permanent seeding.
7. Proceed with construction with least possible disturbance of vegetative areas and temporary structures.

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

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

Craig W. Luke
SIGNATURE

April 30, 2022
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Erosion and Sediment Control Notes - 1
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road to Fort Weaver Road

Scale: As Shown Date: May 2021

SHEET No. C-42 OF - SHEETS

Erosion and Sediment Control Plan Schedule and Rain Response Plan Notes (Cont'd)

Project Sequence:

8. Plant permanent ground cover according to the landscaping plan as soon as possible.
9. Remove or dismantle temporary erosion control structures after full establishment of permanent vegetative cover.
10. Practice good housekeeping measures throughout the duration of construction.
11. Inspections will be performed weekly.

Rain Response Plan:

The following will be performed when heavy rains, tropical storm or hurricane is imminent or is forecasted in the next 48 hours:

1. Temporary suspension of active grading and trenching/construction.
2. Inspect all sediment basins, temporary ditches/ swales, perimeter controls, and inlet protection devices, and maintain as needed. Reinstall any perimeter controls that were removed due to active work in the area. If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets.
3. Cover or relocate material stockpiles and liquid material containers to avoid contact with rainwater.
4. Place spill pans or oil-only spill pads under construction vehicles to prevent runoff from contacting any spilled petroleum products. Properly dispose of any accumulated oily water after the rain event.
5. Re-inspect after the approaching heavy rains, tropical storm or hurricane and replace or maintain BMPs as needed.

Erosion Prevention / Sediment Control Notes

1. The Contractor shall follow the guidelines in the City and County of Honolulu's "Rules Relating to Water Quality."
2. Measures to control erosion and other pollutants shall be in place before any earthwork is initiated.
3. Temporary stabilization is required on disturbed areas which are at final grade or when the disturbed area will not be worked for 14 consecutive days or more.
4. Permanent Stabilization

All disturbed areas shall be permanently stabilized using vegetative covering, pavement, or equivalent, prior to removing erosion and sediment measures. Trapped sediment and areas of disturbed soil which result from the removal of the temporary measures shall be immediately and permanently stabilized.
5. Preserve Existing Vegetation

Clearly mark the areas to be preserved with flags or temporary fencing. Where temporary fencing is used, fencing must be adequately supported by posts and maintained in an upright position.

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Erosion Prevention / Sediment Control Notes (Cont'd)

6. Minimize Soil Compaction

Areas where final stabilization or infiltration practices will be installed shall be protected from excessive compaction during construction. Vehicle and equipment use shall be restricted or techniques to condition the soils to support vegetation shall be implemented in the areas that have been compacted and are designated to remain vegetative or post-construction infiltration areas. Clearly mark the areas to be avoided with flags or temporary fencing. Where temporary fencing is used, fencing must be adequately supported by posts and maintained in an upright position.
7. Perimeter Controls

Perimeter controls are required downslope of all disturbed areas. Maintain downstream vegetated buffer area.
8. Inlet Protection
 - All storm drain inlets onsite and those offsite which may receive runoff from the site shall use an inlet protection device unless they are directed to a sediment basin.
 - Sediment levels may not exceed one third of the height of a sediment barrier or inlet protection device at any point along the length of the sediment barrier or the inlet protection device.
 - Sediment barriers and inlet protection devices must be unclogged and cleaned when performance is compromised.
 - Torn, weathered or sagging sediment barriers or inlet protection devices must be repaired or replaced immediately.
9. Sediment Basins

Sediment basins must be kept in effective operating condition and sediment shall be removed to maintain at least one half of the design capacity at all times.
10. Tracking Control
 - Minimize sediment track-out onto off-site streets, other paved areas, and sidewalks from vehicles exiting the construction site by restricting vehicle traffic to properly designated areas and using additional controls to remove sediment from vehicle tires prior to exiting the site.
 - Vehicular parking and movements on project sites must be confined to paved surfaces or predefined parking areas and vehicle paths, which shall be marked with flags or boundary fencing.
 - All pollutants and materials that are dropped, washed, tracked, spilled, or otherwise discharged from a project site to off-site streets, other paved areas, sidewalks or the ms4 must be cleaned using dry methods such as sweeping or vacuuming.
 - Washing pollutants and materials that are discharged from the project site to the ms4 into drain inlets or catch basins is prohibited unless the material is sediment and the inlets are directed to a sediment basin or sediment trap.
11. Best Management Practices (BMPs) shall not be removed until final stabilization is complete for that phase.
12. Refer to City and County of Honolulu Best Management Practices Manual-Construction, for more information on BMPs.

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Erosion Prevention / Sediment Control Notes (Cont'd)

13. The following BMPs were determined to be not applicable based on the specific site conditions. As construction progresses, revisions may be necessary and will be provided to DPP inspectors.
 - sediment barriers are not applicable as the proposed BMPs (perimeter control and sediment basins) are sufficient to address any potential sediment runoff.
 - Dewatering practices are not applicable because ground water is not expected to be present, due to the project elevation.
 - Sediment traps are not applicable because this project is larger than 5 acres.
14. An ESCP coordinator is required for this project. At the time of obtaining the trenching permit, the owner or authorized agent shall submit the "ESCP coordinator and/or CWPPP Designation Form" from the Appendix A to the "Rules Relating to Water Quality", August 2018, to CEB, to designate the Escp coordinator for this project.
15. The contractor shall comply with the project scheduling requirement as specified in the "Administrative Rules, Title 20, Department of Planning and Permitting, Chapter 3, Rules Relating to Water Quality", Section 20-3-28. The scheduled start date shall be submitted to the director in writing 2 weeks prior to commencing any work governed by these rules.



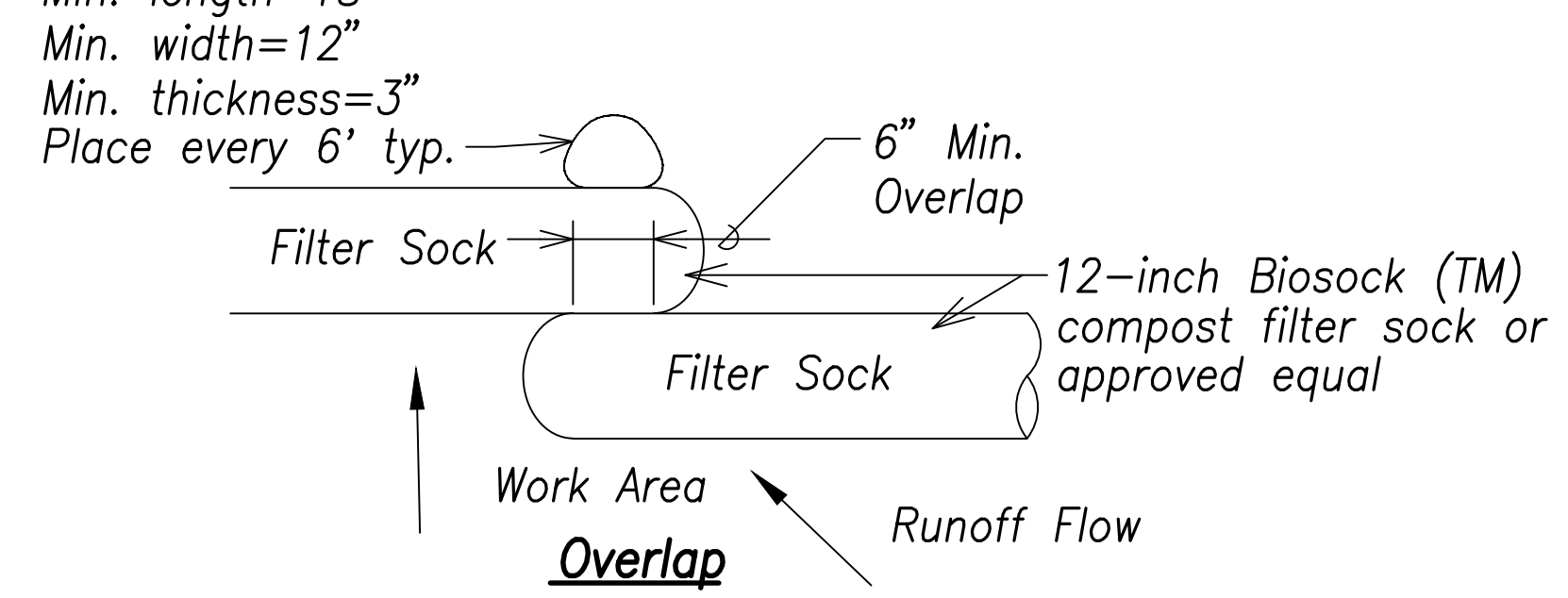
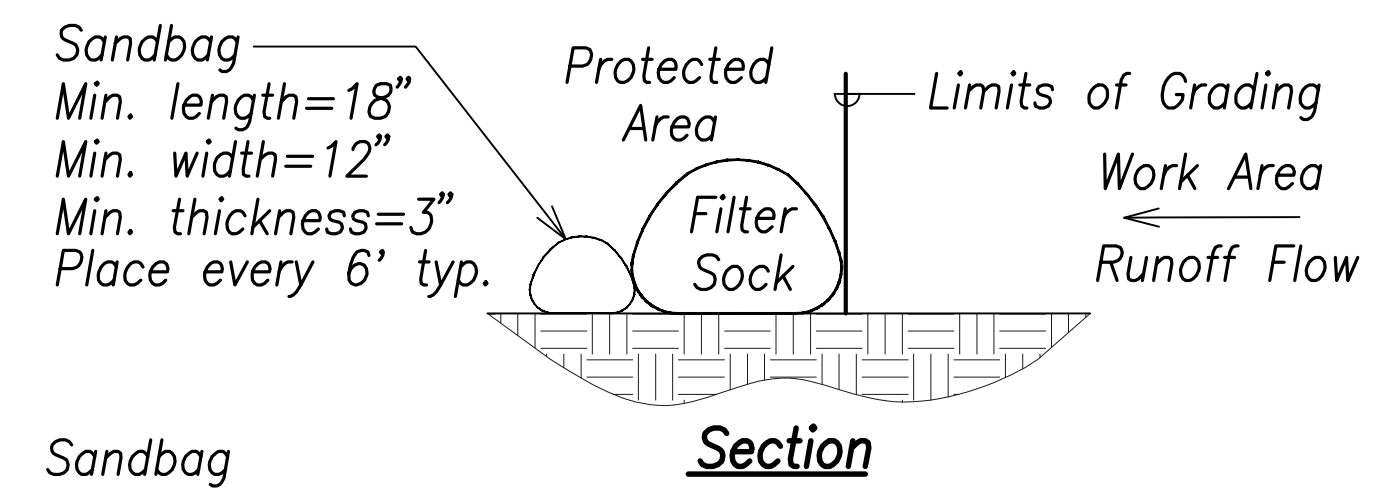
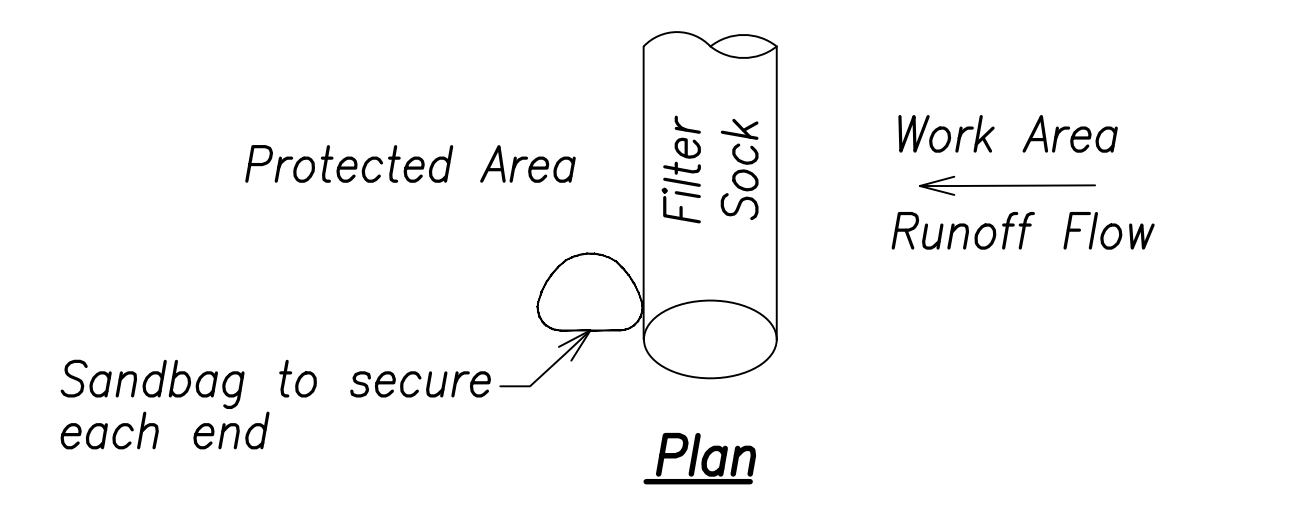
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
 Signature: *[Signature]* April 30, 2022
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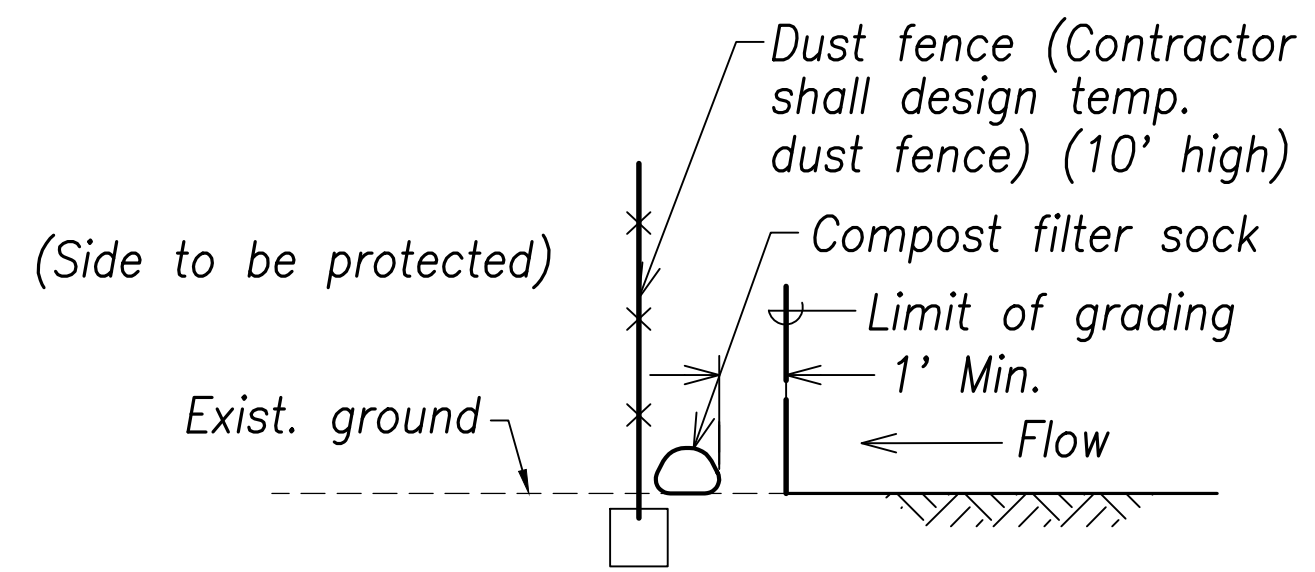
Erosion and Sediment Control Notes - 2
FARRINGTON HIGHWAY WIDENING
Kapolei Golf Course Road
to Fort Weaver Road

Scale: As Shown Date: May 2021

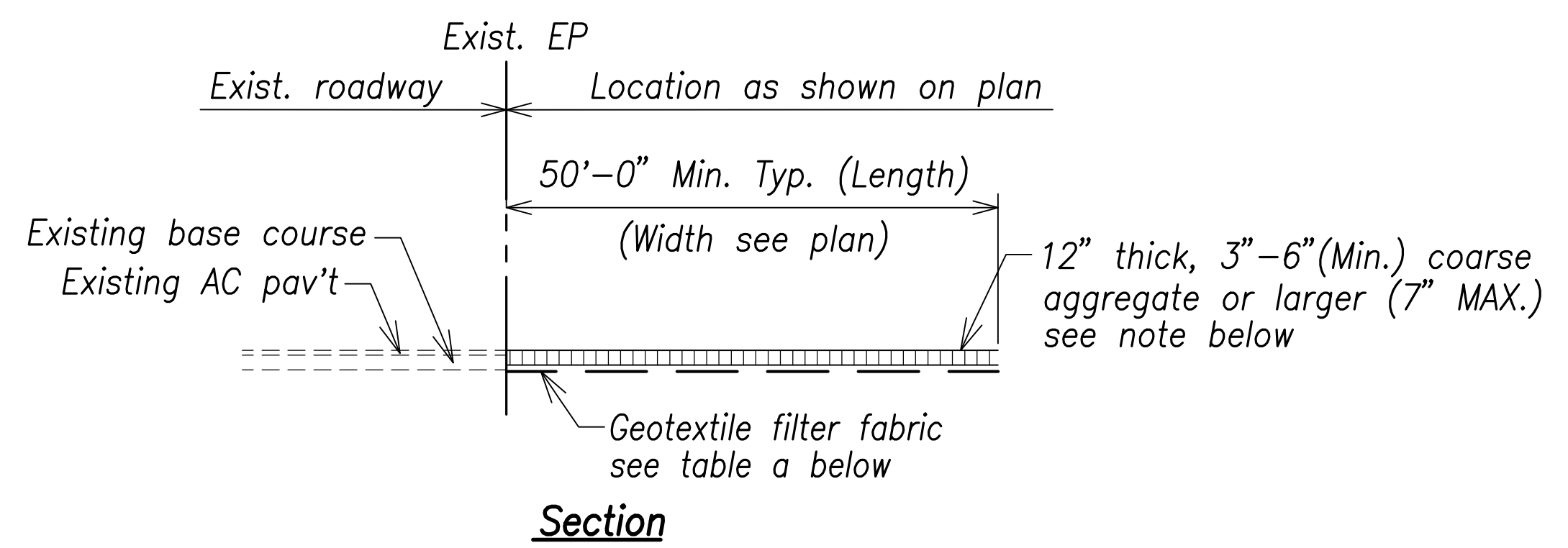
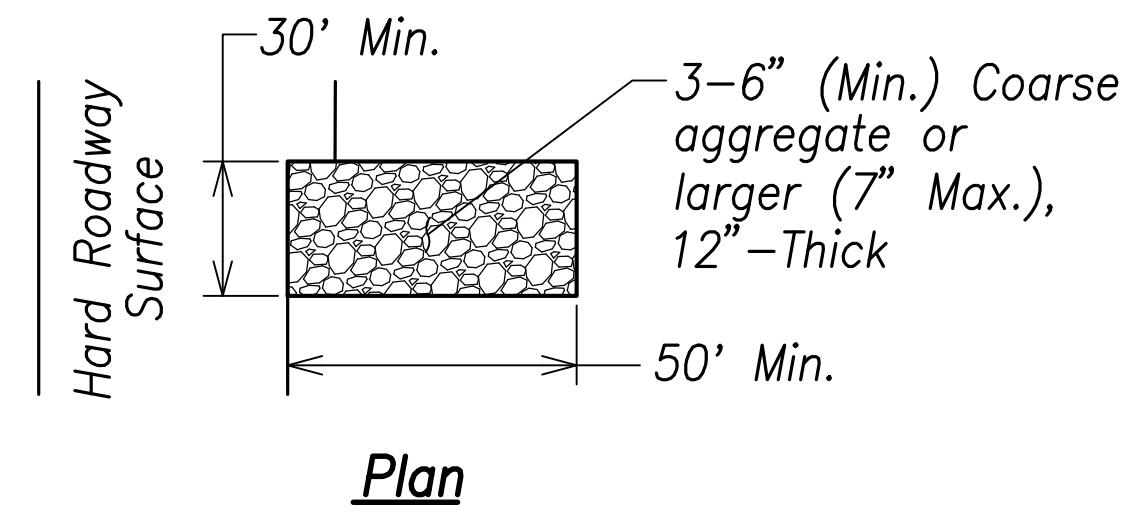
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-20	2021		-



12" Compost Filter Sock Detail
Not to Scale



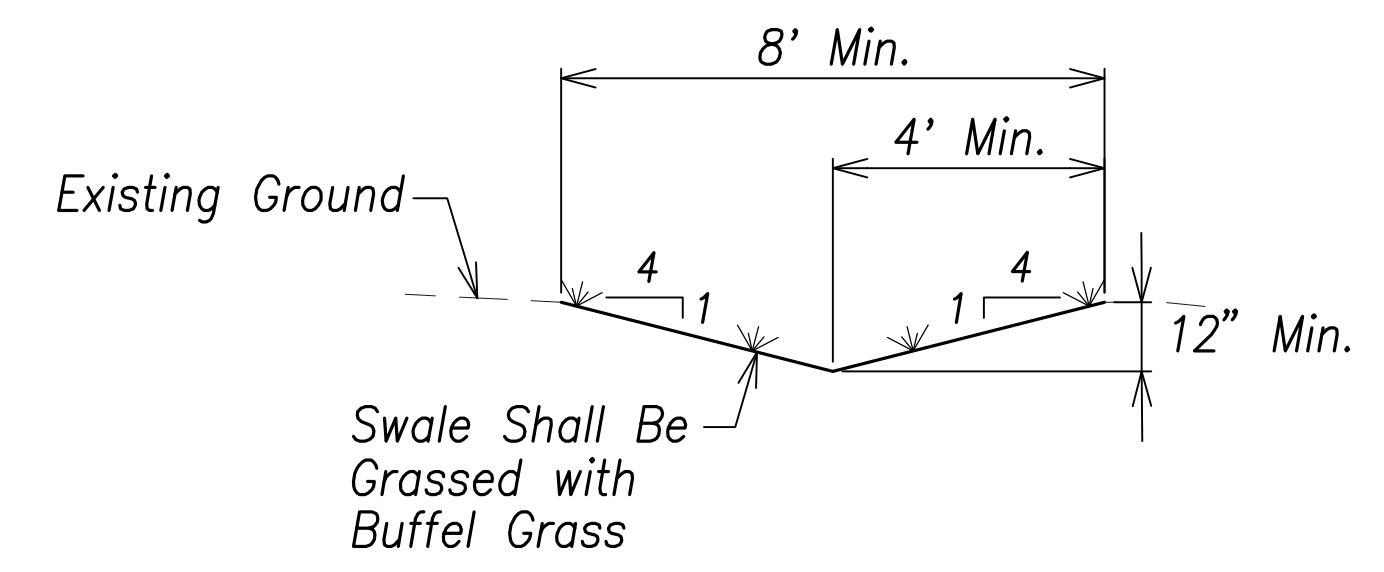
Limit of Grading Detail
Not to Scale



Physical Property	Requirements
Grab Strength	315 MARV (ASTM D4632)
Sewn Seam Strength	285 MARV (ASTM D4884)
Trapezoid Tear Strength	115 MARV (ASTM D4533)
Puncture Resistance	115 MARV (ASTM D4833)
Permittivity	0.05' (ASTM D4491)
Apparent Opening Size (U.S. Standard Sieve)	40 MARV (ASTM D4751)
Ultraviolet Degradation, 500 hours	50 MARV (ASTM D4355)

Note:
12" Coarse aggregate layer shall be removed immediately prior to installation of roadway base course.

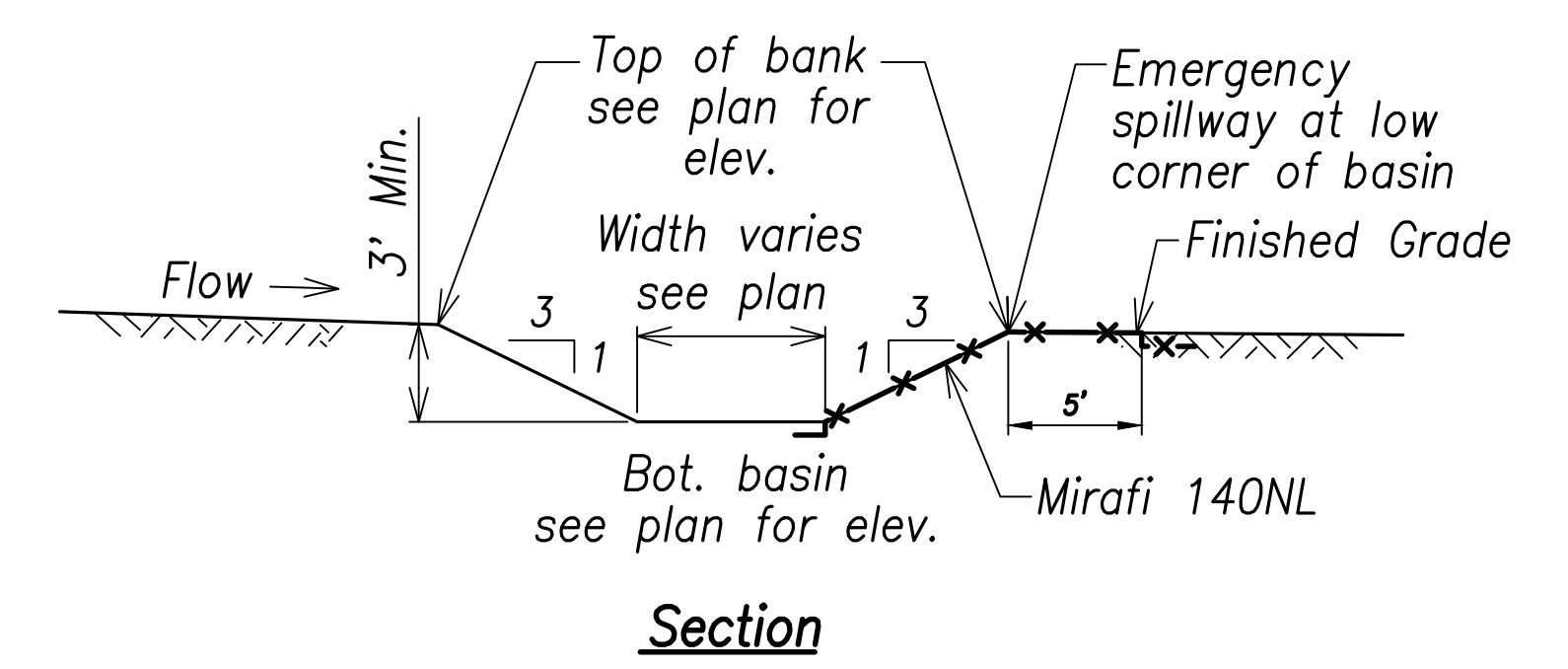
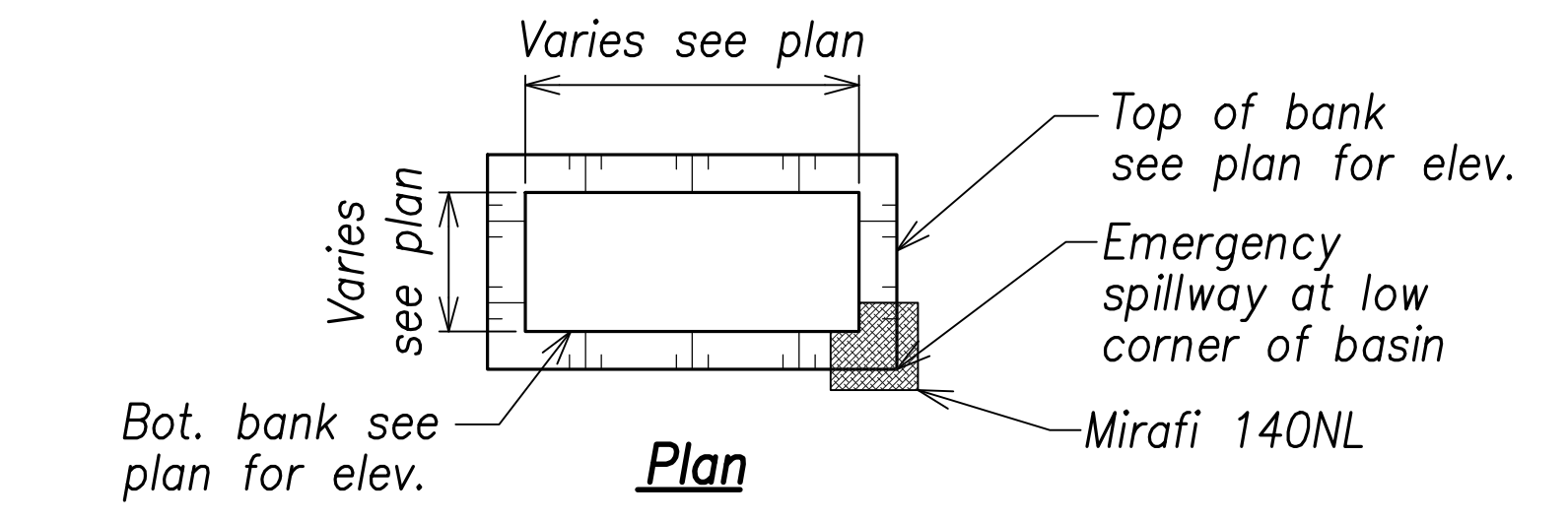
Stabilized Construction Entrance
Not to Scale



Notes:

1. temporary interceptor swale shall be removed and graded last upon completion of grading increments.
2. Temporary interceptor swale shall be stabilized immediately with hydroseed.

Temporary Interceptor Swale
Not to Scale

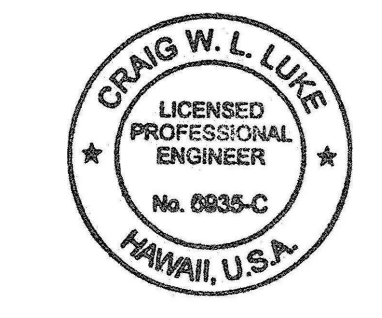


Note:

1. In lieu of providing outlet structures, contractor shall maintain the sediment basin in effective operating condition and provide pumping if any water has been standing for 72 hours. the contractor shall pump out standing water in the sediment basins and dispose of it at the temporary discharge area.
2. Double compost filter sock (perimeter control) shall be placed at the downstream side of the temporary discharge area. if the temporary discharge area does not have adequate vegetation, the contractor shall grass the temporary discharge area prior to disposing the water. Double compost filter sock (perimeter control) and grassing shall be maintained during grading operations and use of the discharge area.

Temporary Sediment Basin
Not to Scale

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