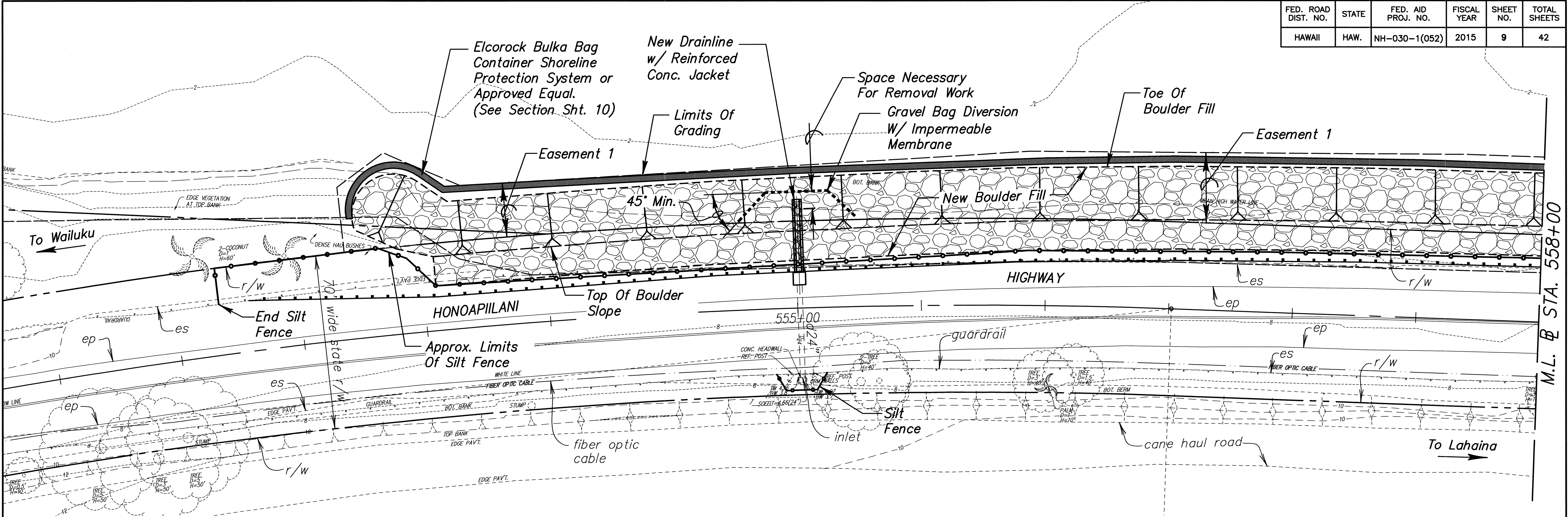


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(052)	2015	9	42



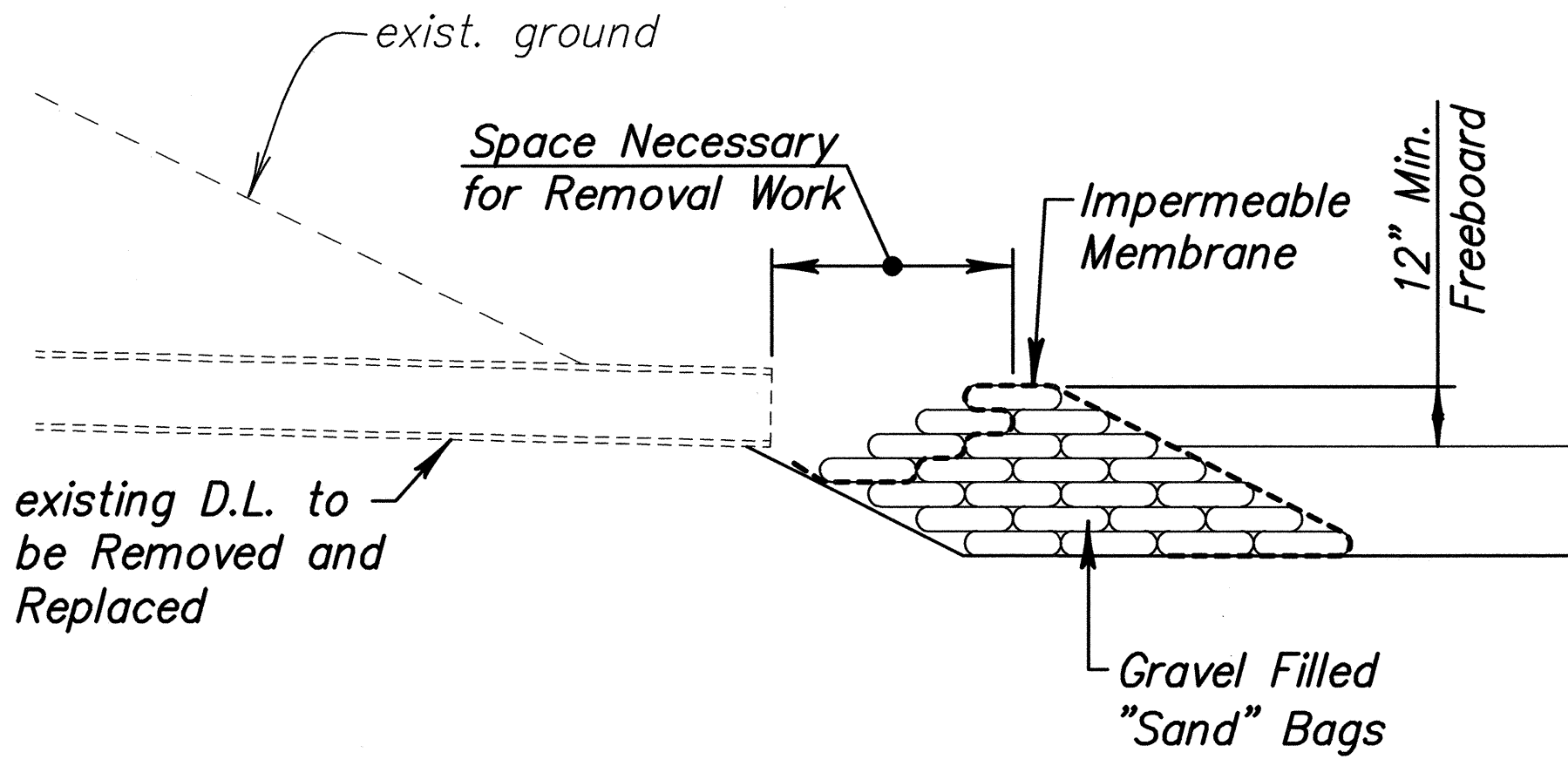
EROSION CONTROL PLAN
Scale: 1"=20'

Notes:

1. Encroachment Into The Ocean Shall Not Exceed The Minimum Necessary To Complete The Removal Work.
2. Gravel for the Elcorock Bulka Bag Containers and Gravel Bag Diversion shall be Between 0.4-inch and 0.8-inch in Diameter. The Gravel Shall be Clean, Washed Free of Clay, Sand, Organic Matter, or Other Deleterious Material.
3. Installation, Relocation, and Removal of the Elcorock Bulka Bag Container Shoreline Protection System will not be Paid for Separately and Shall be Considered Incidental to the Various Items in Section 209-Temporary Water Pollution, Dust, and Erosion Control.

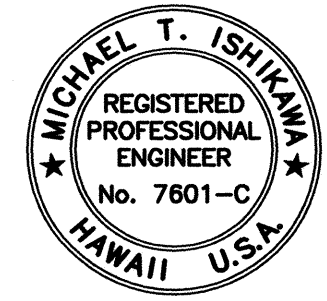
LEGEND

- Stabilized Construction Entrance
- New Boulder Fill
- Silt Fence
- New Guardrail
- existing 24" drain line
- New Drain Line
- Gravel Bag Barrier



**GRAVEL BAG DIVERSION W/
IMPERMEABLE MEMBRANE DETAIL**
Not to Scale

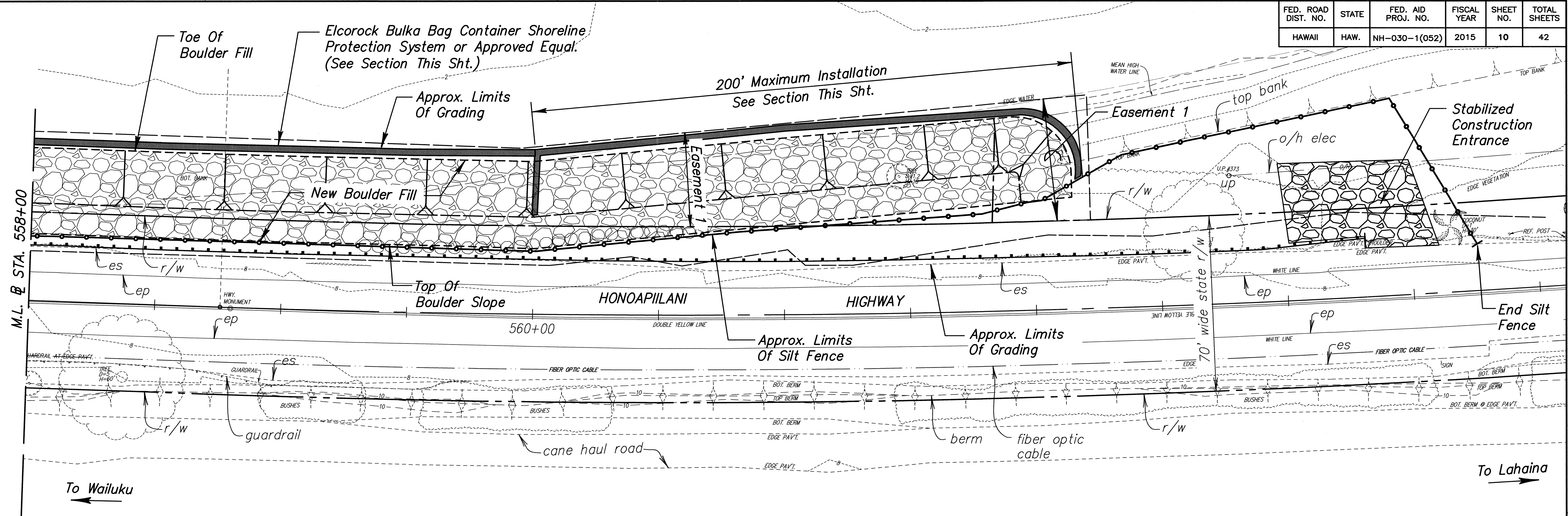
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		



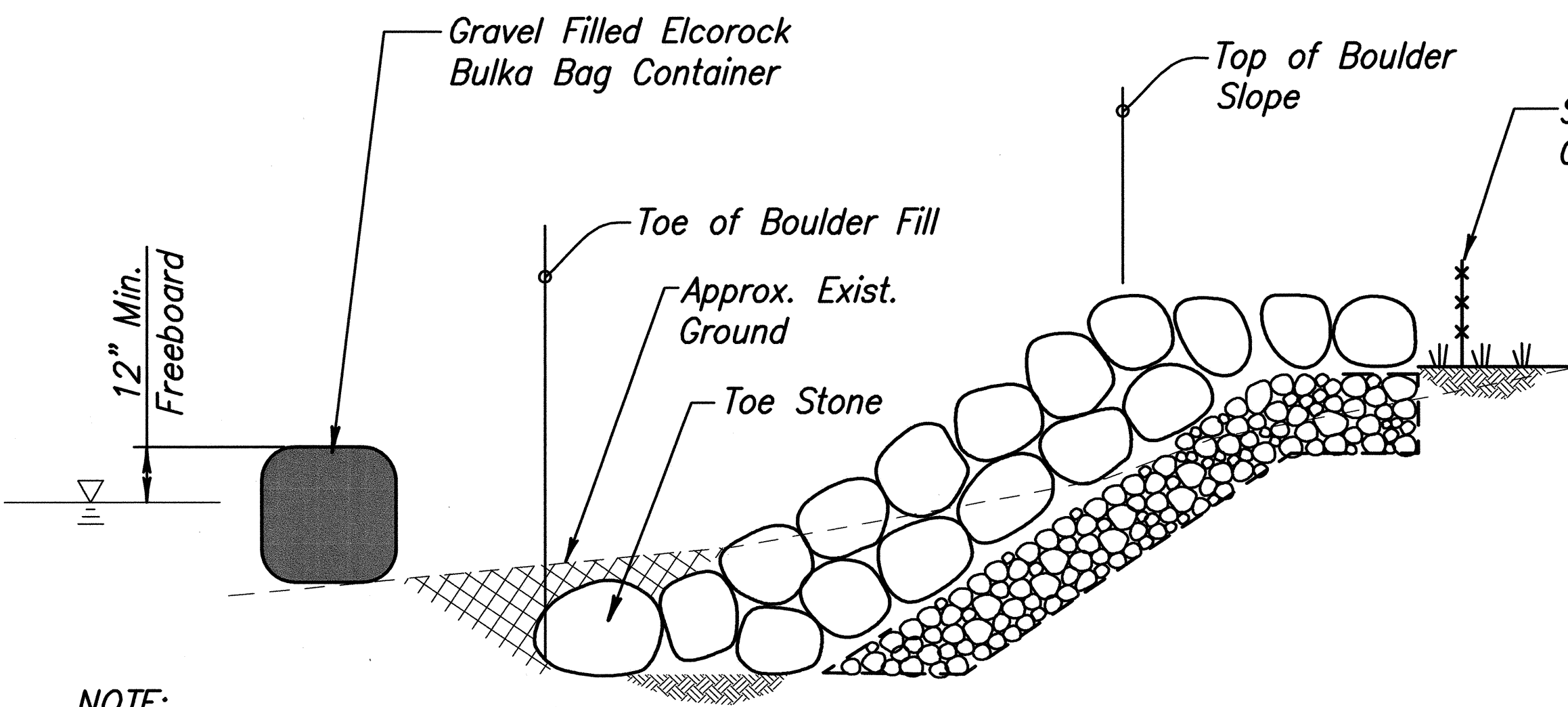
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
04/30/16
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EROSION CONTROL PLAN
STA. 552+00± to STA. 558+00
HONOAPIILANI HIGHWAY
Shoreline Improvements At Olowalu
Federal-Aid Project No. NH-030-1(052)
SCALE: As Noted DATE: September 2015
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(052)	2015	10	42

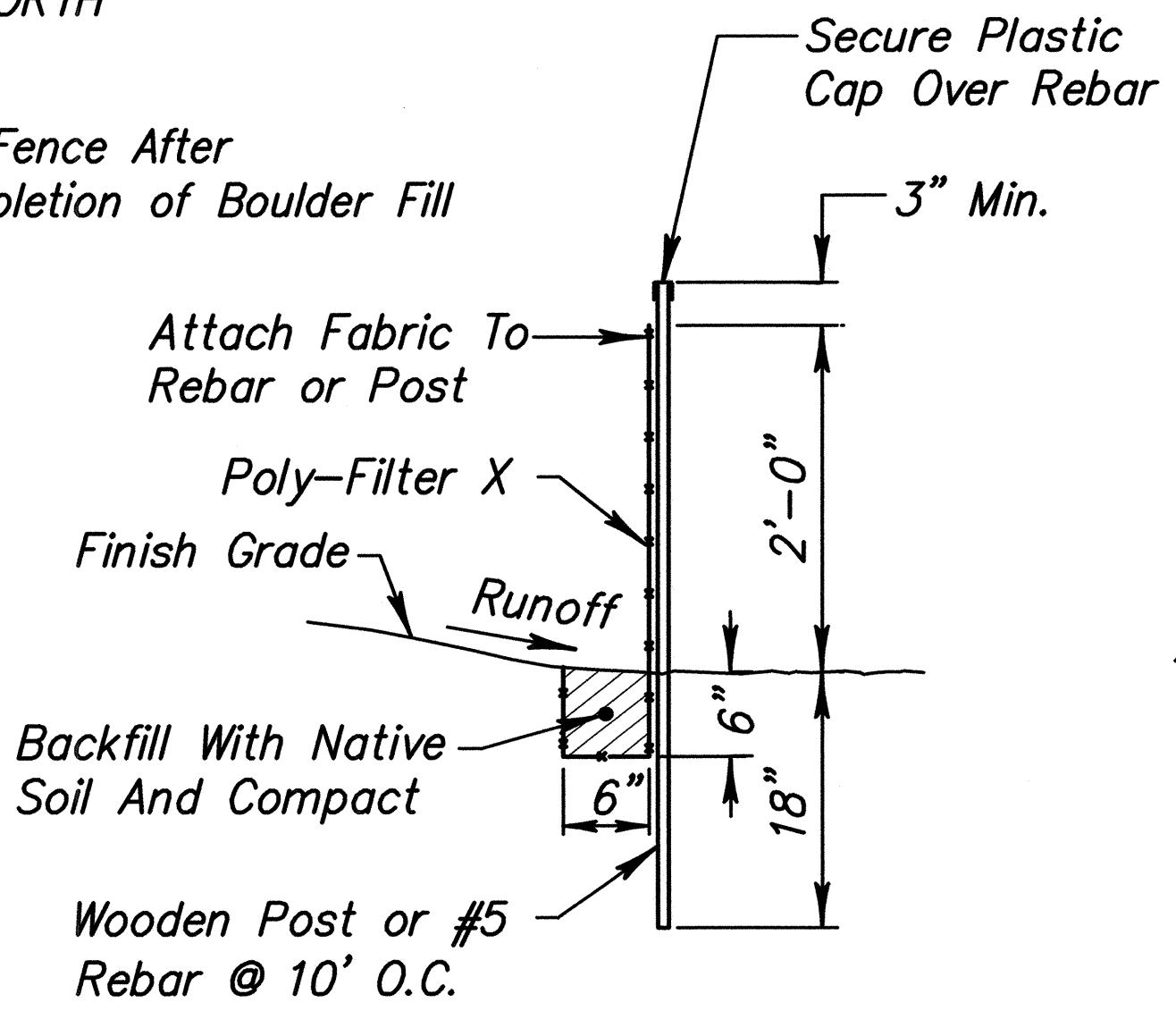


EROSION CONTROL PLAN
Scale: 1"=20'



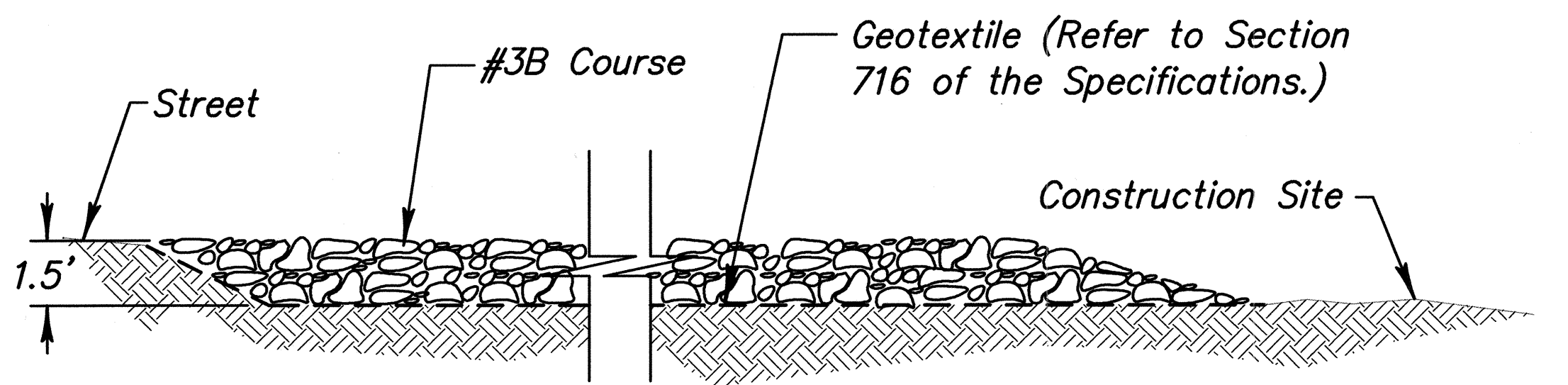
NOTE:
Construction of The Boulder Fill Shall Take Place As A Phased Sequence In 100-200 ft. Long Sections. Bags Shall Be Installed To Enclose Immediate Work Area Seaward Of The Shoreline. Once A Section Of The Boulder Fill Is Completed, the Bags May Be Replaced With Silt Fences Along The Top Edge Of Bank. The Above Plan Shows a Typical Phased Area And Also the Limits of the Barrier for the Entire Project Area.

TYPICAL SECTION-GRAVEL BAG BARRIER
Not to Scale



NOTE:
If Silt Fence is Obtained From a Manufacturer as a Package (ie. Fabric Attached to Post) The Manufacturer's Installation Instructions shall be Adhered to.

SILT FENCE
Scale: 1"-1'-0"



- NOTES:**
1. Maintain And Add Rock To Entrance As Needed Throughout Construction
 2. Provide Stabilized Construction Entrances At All Access Points To Site As Needed

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
Not to Scale



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04/30/16
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EROSION CONTROL PLAN
STA. 558+00 to STA. 564+00±
HONOAPIILANI HIGHWAY
Shoreline Improvements At Olowalu
Federal-Aid Project No. NH-030-1(052)
SCALE: As Noted DATE: September 2015
SHEET No. 2 OF 2 SHEETS

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