

DIST. NO. PROJ. NO. YEAR NO. SHEETS NH-030-1(38) 2010 213 HAW. 106 HAWAII BORING LOG W.O. <u>08-4582</u>

DESCRIPTION

Silty CLAY (CL) - Reddish brown, moist, stiff, with

BASALT (WH) — Dark gray, moist, dense, highly

BASALT (WS) — Gray, hard, slightly fractured, slightly weathered.

GRAVEL (GP) — Gray, dense to medium hard, inter—layered with basalt.

Begin NX coring at 9 feet. 88% Recovery from 9 to 14 feet.

81% Recovery from 14 to 17 feet. RQD = 22%

94% Recovery from 17 to 20 feet. RQD = 44%

End boring at 20 feet.

encountered.

BASALT (WS) — Gray, hard, slightly fractured, slightly weathered.

Neither groundwater nor seepage water

START DATE <u>8/22/08</u>

END DATE <u>8/25/08</u>

FISCAL

SHEET

FED. ROAD

215±

BLOWS PER

FOOT

36

45

24/6" 50/2"

DRY DENSITY

(PCF)

77

81

89

17

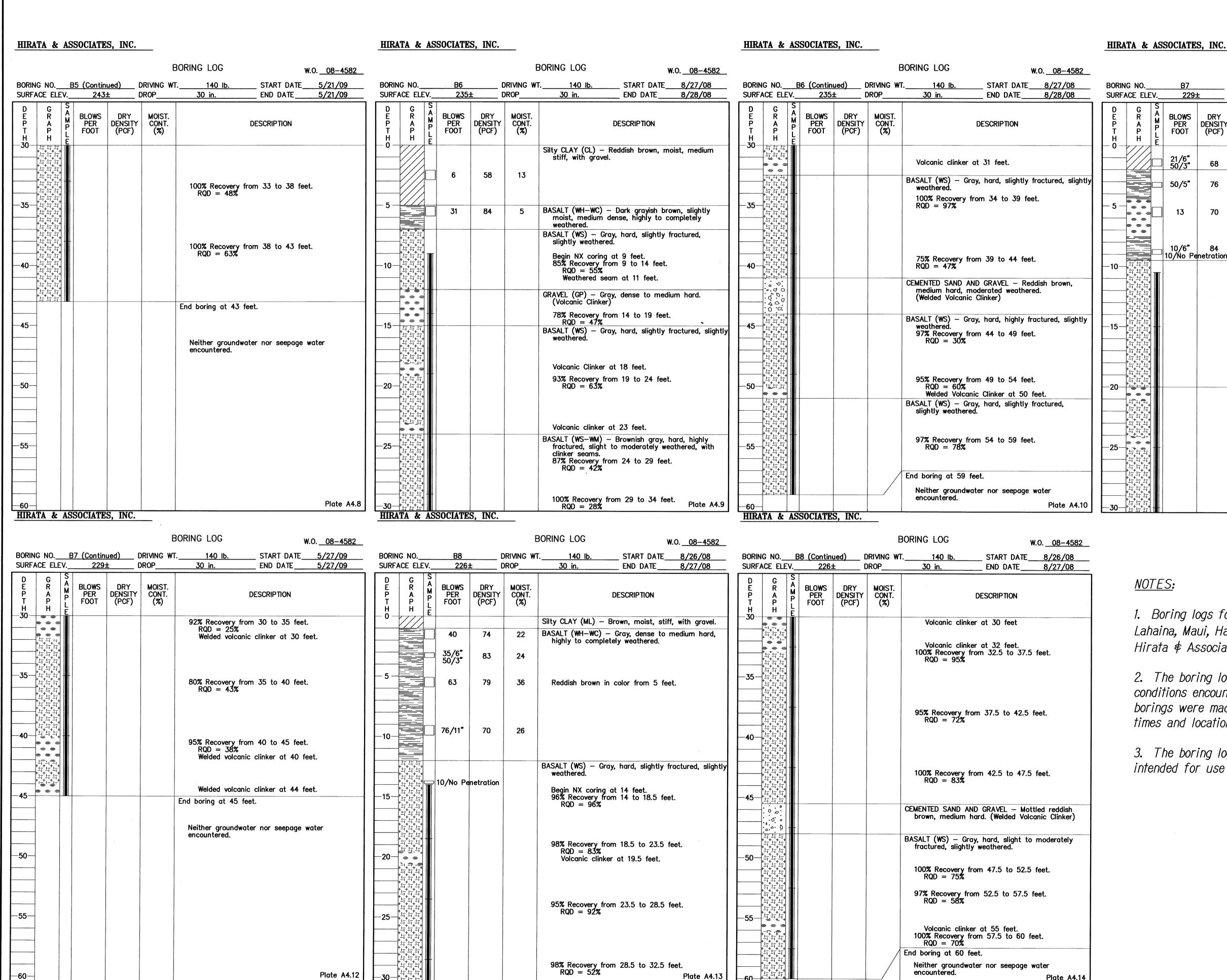
NOTES:

- 1. Boring logs for Honoapiilani Highway Realignment, Phase 1B-1, Lahaina, Maui, Hawaii for Austin, Tsutsumi & Associates, Inc., by Hirata \$ Associates, Inc. W.O. 08-4582, dated October 21, 2009.
- 2. The boring logs indicate the approximate subsurface soil conditions encountered only at those times and locations where borings were made, and may not represent conditions at other times and locations.
- 3. The boring logs are for design purposes only and are not intended for use in developing cost estimates by the contractor.

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

BORING LOGS

HONOAPIILANI HIGHWAY REALIGNMENT, PHASE 1B-1 Lahainaluna Rd. to Hokiokio Pl. Federal Aid Project NO. NH-030-1(38) Date: November 23, 2009 Scale: As Noted SHEET No. 1 OF 7 SHEETS



60-+-1+-1+

PROJ. NO. DIST. NO. YEAR NO. SHEETS NH-030-1(38) 2010 107 213 HAW.

BORING LOG

W.O. <u>08-4582</u> START DATE <u>5/27/09</u> SURFACE ELEV. 229± BLOWS DENSITY (PCF) PER FOOT DESCRIPTION Silty CLAY (CL) - Reddish brown, moist, stiff, with 68 BASALT (WH-WC) - Mottled grayish brown, moist, dense to medium hard, highly to completely weathered. 76 Weathered volcanic clinker from 4.5 to 7.5 feet, 70 medium dense. --10/6" 84 10/No Penetration BASALT (WS) — Gray, hard, slightly fractured, slightly weathered. Begin HQ coring at 10.5 feet. 91% Recovery from 10.5 to 15 feet. RQD = 80% 100% Recovery from 15 to 20 feet. RQD = 95% BASALT (WS) — Gray, medium hard to hard, vesicular, moderately fractured, slightly weathered. 87% Recovery from 20 to 25 feet. RQD = 38% Welded volcanic clinker at 20 feet. Welded volcanic clinker at 24 feet. 83% Recovery from 25 to 30 feet. RQD = 57%

NOTES:

Plate A4.14

- 1. Boring logs for Honoapiilani Highway Realignment, Phase 1B-1, Lahaina, Maui, Hawaii for Austin, Tsutsumi & Associates, Inc., by Hirata \$\psi\$ Associates, Inc. W.O. 08-4582, dated October 21, 2009.
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BORING LOGS

HONOAPIILANI HIGHWAY REALIGNMENT, PHASE 1B-1 Lahainaluna Rd. to Hokiokio Pl. Federal Aid Project NO. NH-030-1(38) Date: November 23, 2009 Scale: As Noted

SHEET No. 2 OF 7 SHEETS

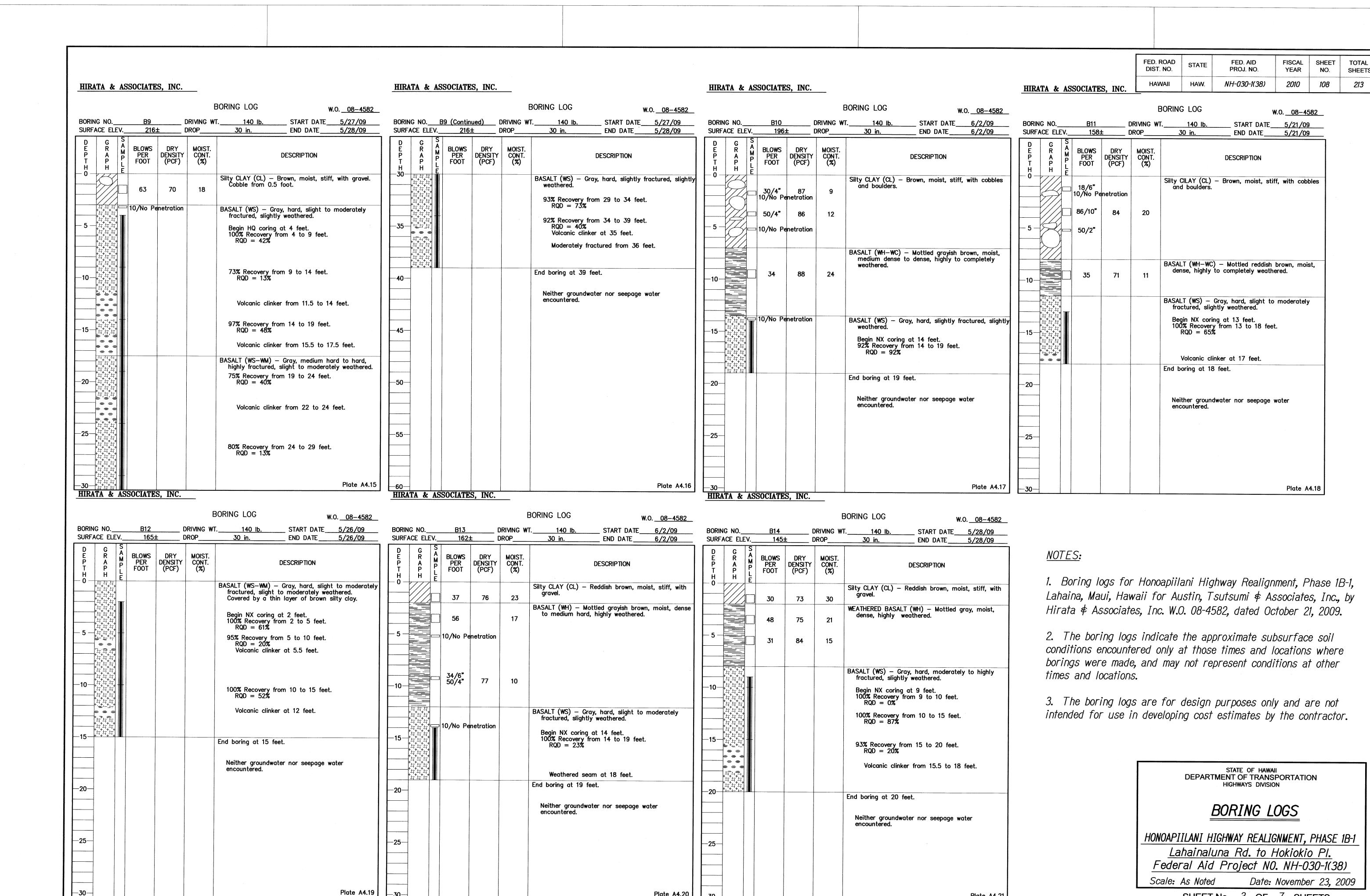


Plate A4.20

SHEET No. 3 OF 7 SHEETS

Plate A4.21

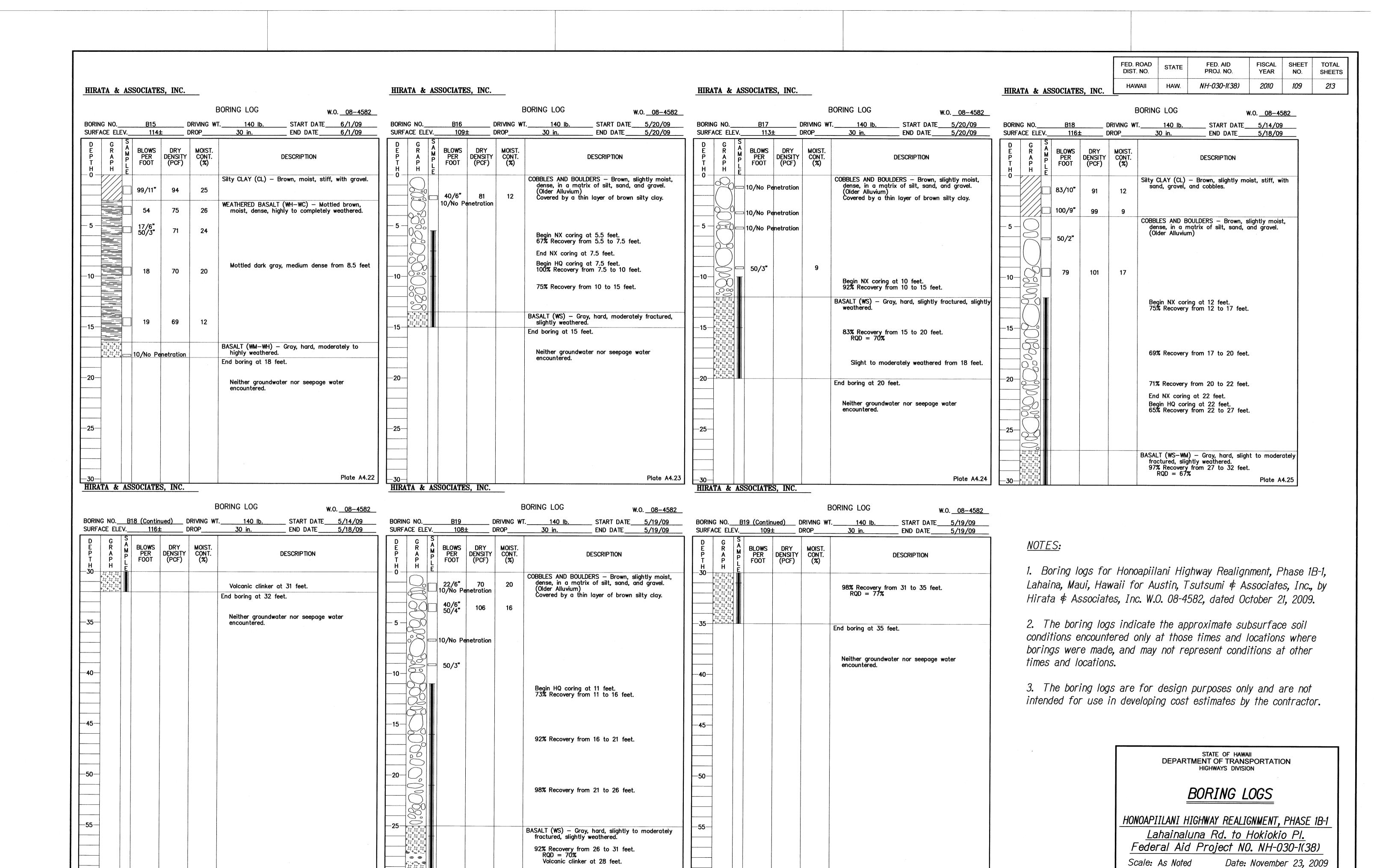


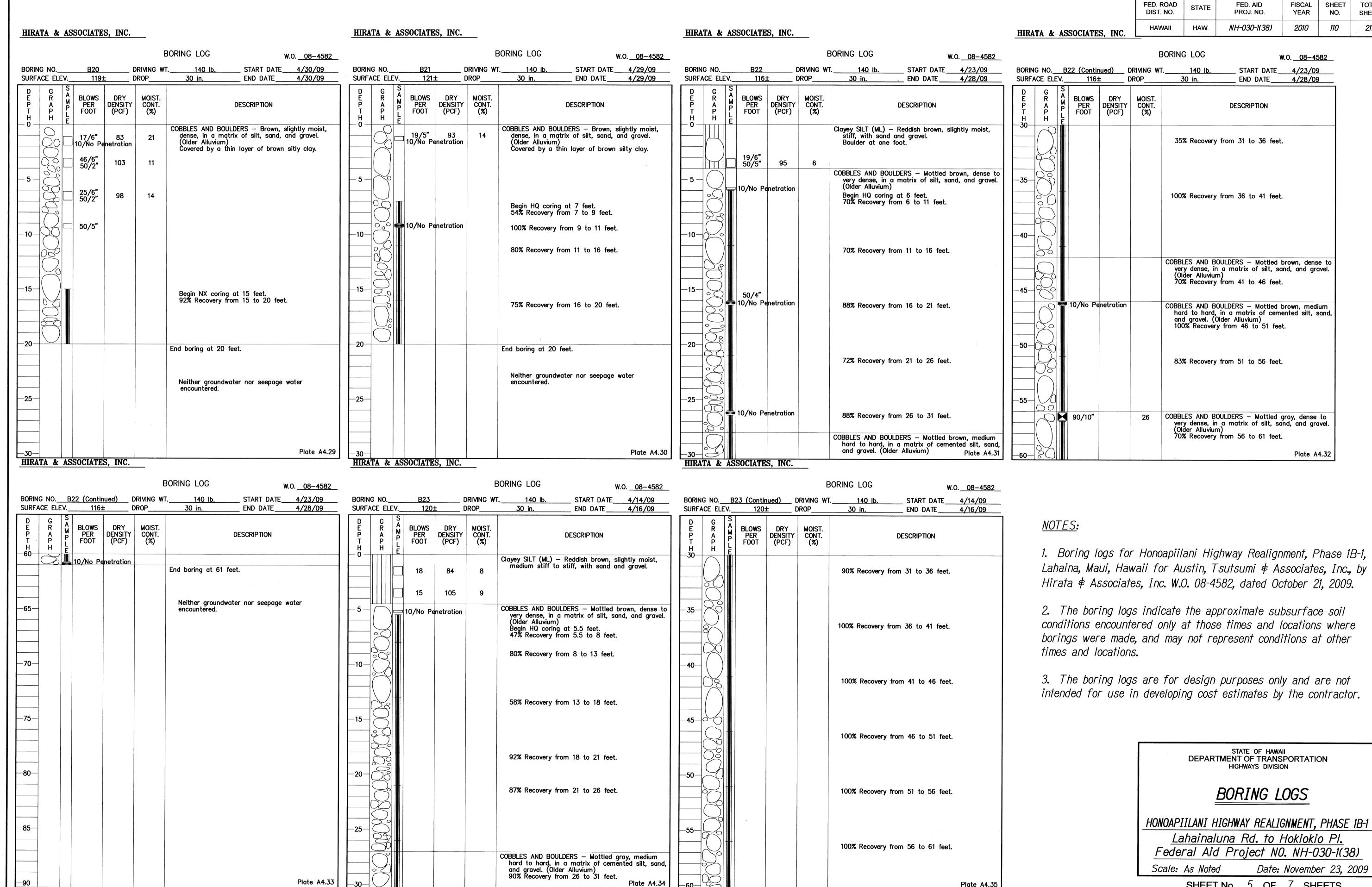
Plate A4.27

Plate A4.26

109

SHEET No. 4 OF 7 SHEETS

Plate A4.28



-60-

SHEET No. 5 OF 7 SHEETS 110

Plate A4.35

TOTAL

SHEETS

213

