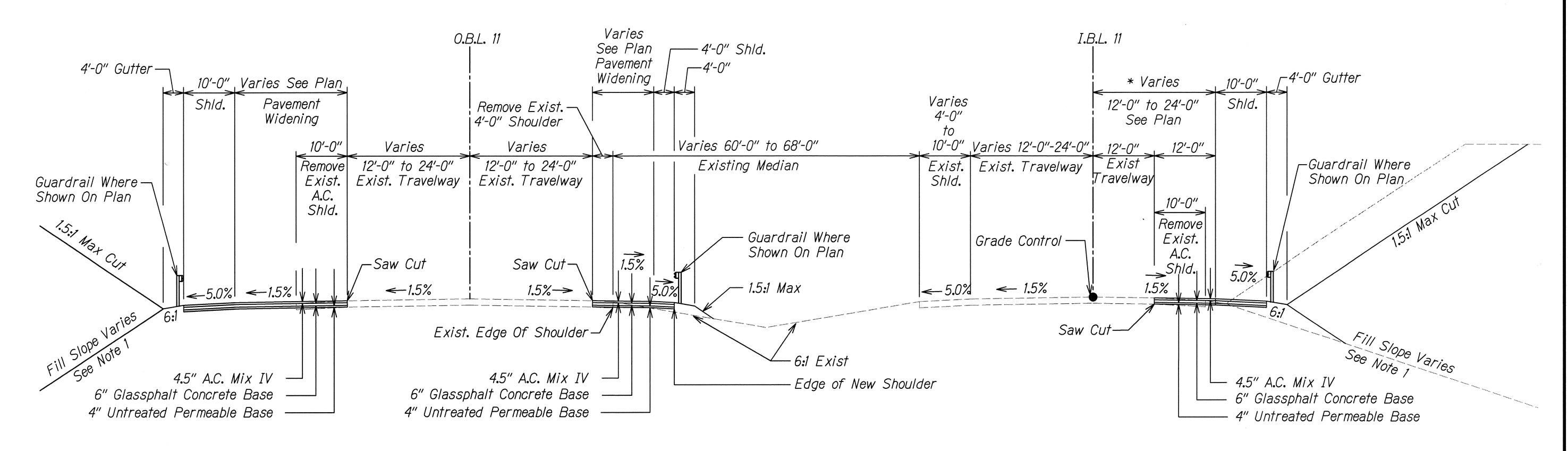
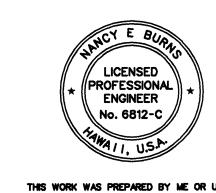
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-98	1999	6	210



ORIGINAL BURVET PLOTTED BY
PLAN TRACED BY
NOTE BOOK DESIGNED BY
QUANTITIES BY
OUTPEDON CHECKED BY

TYPICAL TANGENT SECTION I.B.L. 11 \$ 0.B.L. 11

Note:
1. Fill Slopes: 0' - 3'-0" = 6:1
3.0' - 5.0' = 5:1



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

Many E Buss

Date: 8/24/98

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION

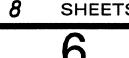
I.B.L. \$ O.B.L. HIGHWAY. 11

KEA'AU-PAHOA ROAD VIC. OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2

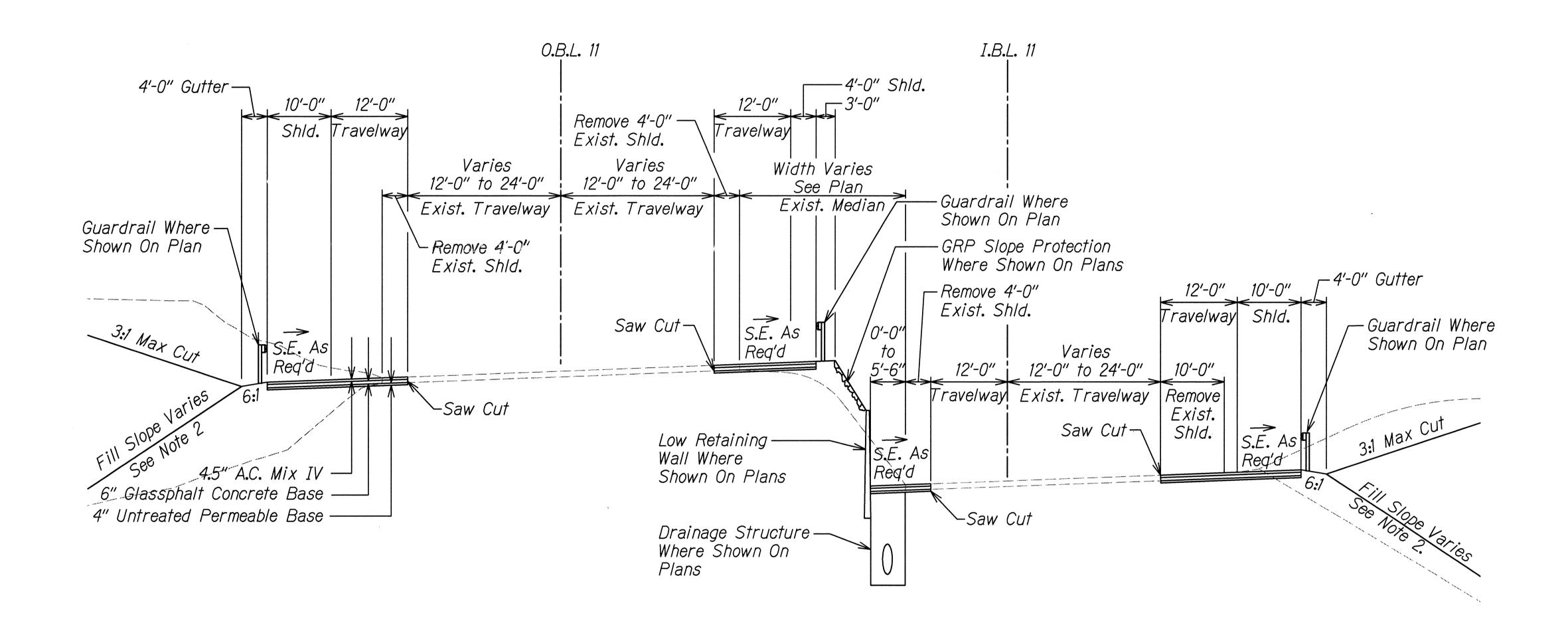
PROJECT NO. 130B-01-98

Scale: 1"=10' Date: August, 1998

SHEET No. 1 OF 8 SHEETS



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-98	1999	7	210



TYPICAL SUPERELEVATION SECTION I.B.L. 11 \$ 0.B.L. 11



1. See Superelevation Diagram for Superelevation Rates.
2. Fill Slopes: 0' - 3'-0" = 6:1
3.0' - 5.0' = 5:1



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. Maney & Burns DATE: 8/24/98

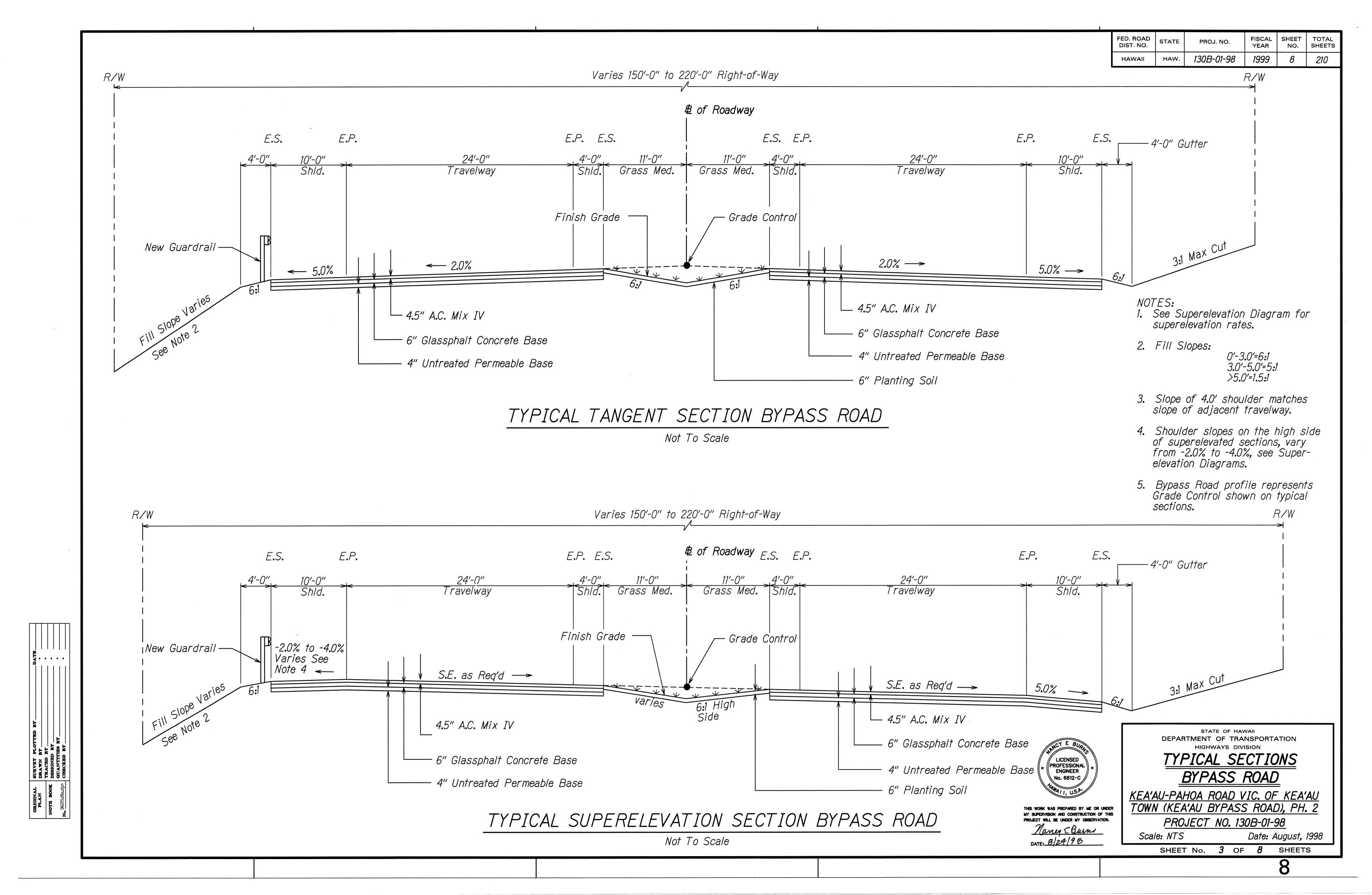
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

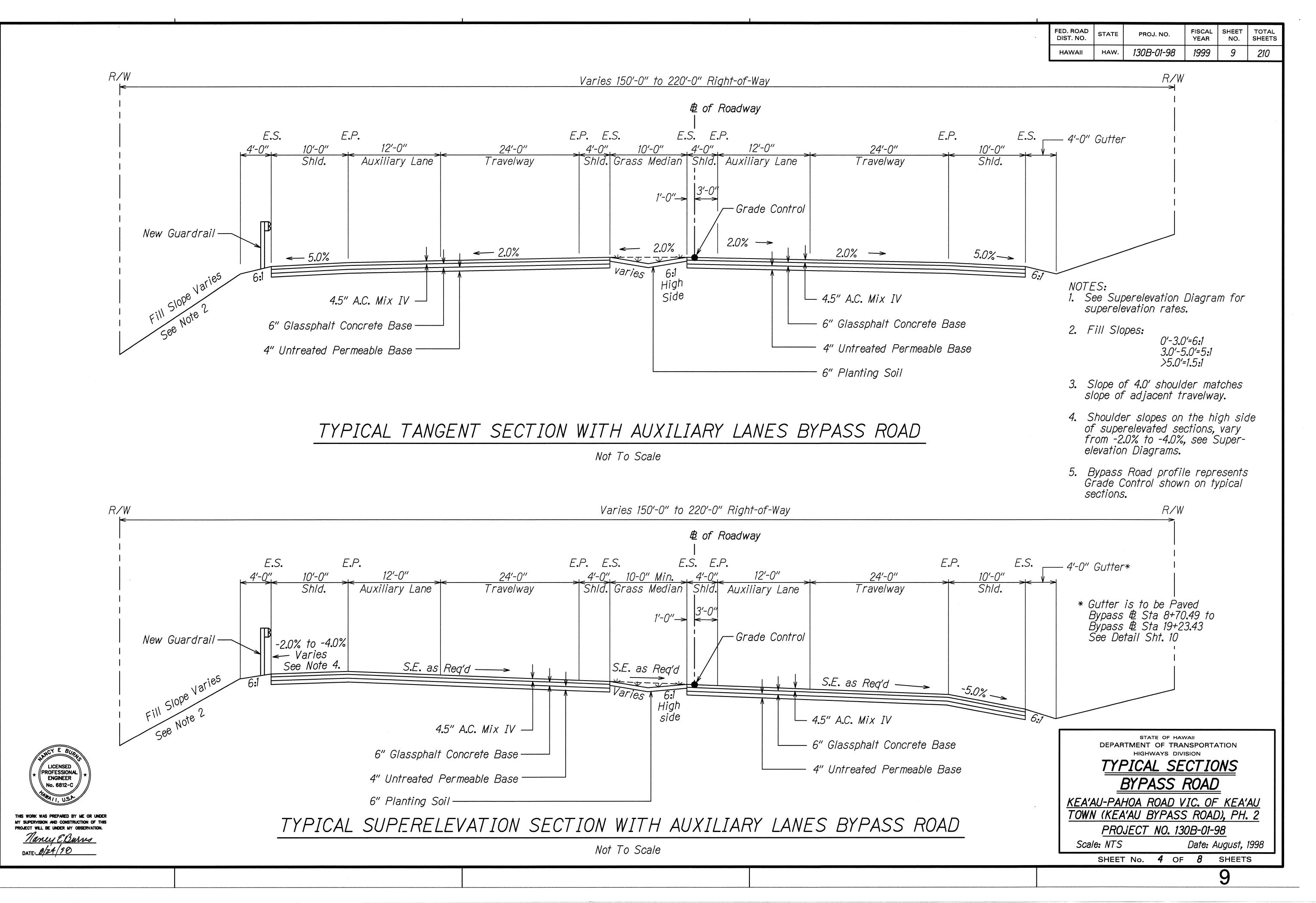
TYPICAL SECTION I.B.L. # O.B.L. HIGHWAY. 11

KEA'AU-PAHOA ROAD VIC. OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2

PROJECT NO. 130B-01-98 Scale: 1"=10'

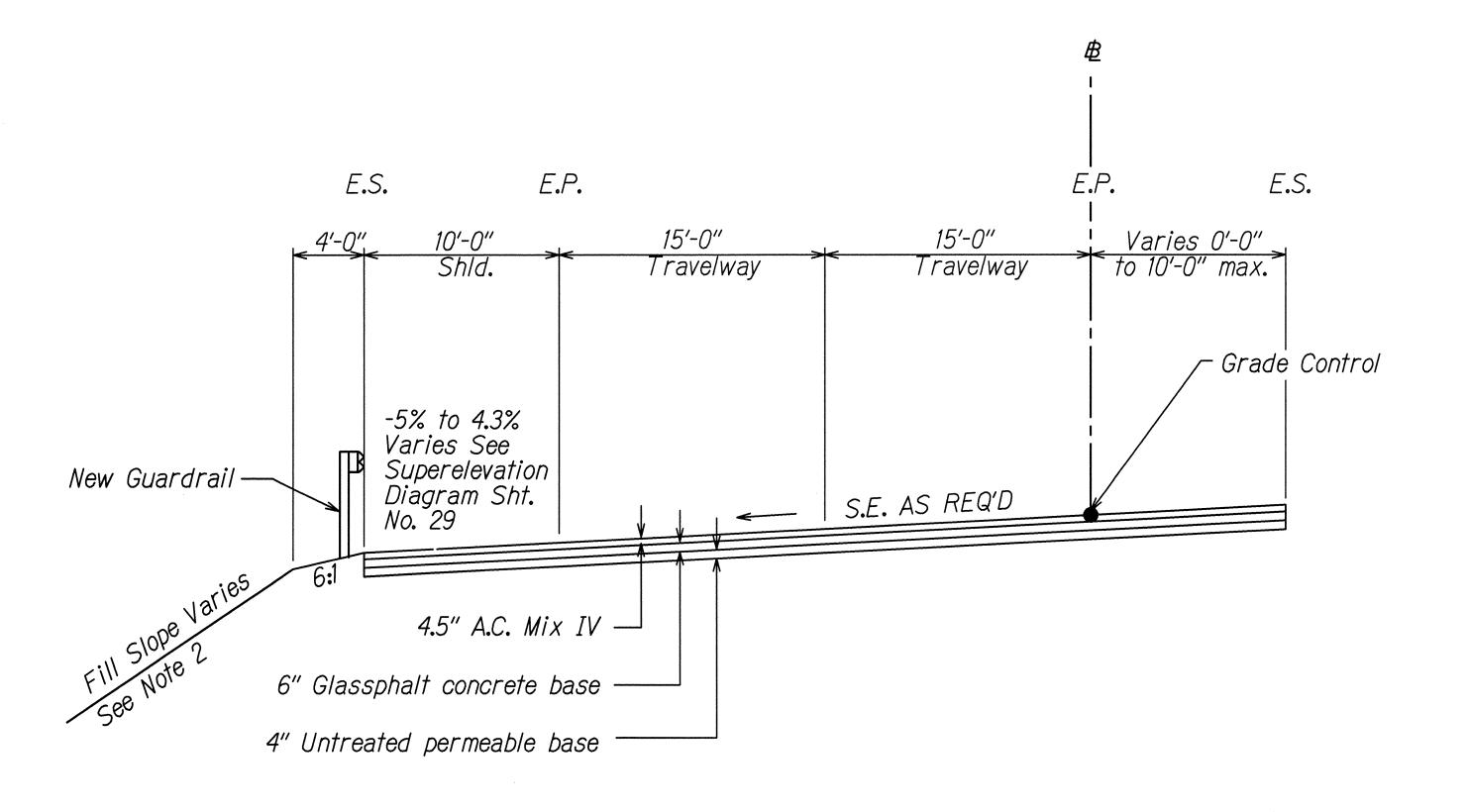
Date: August, 1998 SHEET No. 2 OF 8 SHEETS



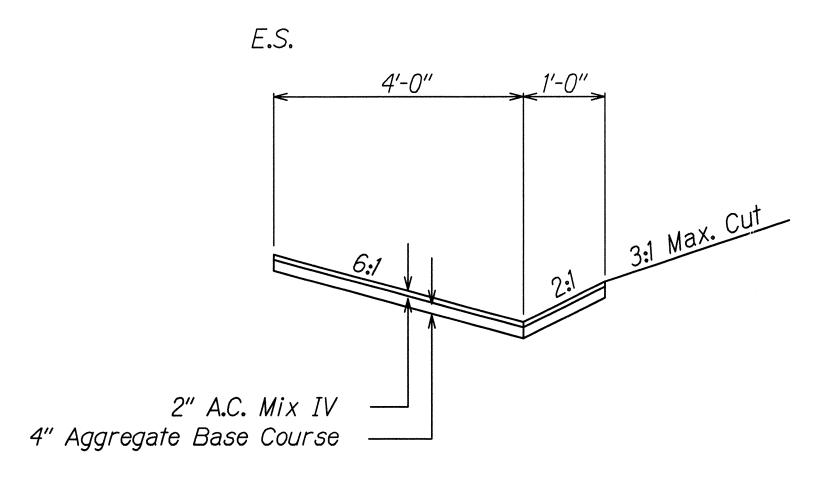


SURVEY PLOTTED
DRAWN BY
TRACED BY
DRSIGNED BY
QUANTITIES BY
CHECKED BY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-98	1999	10	210



TYPICAL SECTION RAMP



TYPICAL GUTTER SECTION Bypass # Sta 8+70.49 to Bypass # Sta 19+23.43



NOTES:

- 1. See Superelevation Diagram for superelevation rates.
- 2. Fill slopes: 0'-3.0'=6:1 3.0'-5.0'=5:1 >5.0'=1.5:1



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. Maney EBurns DATE: 8/24/98

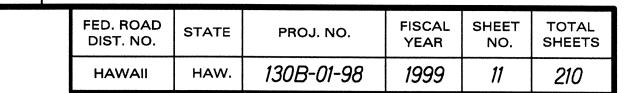
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

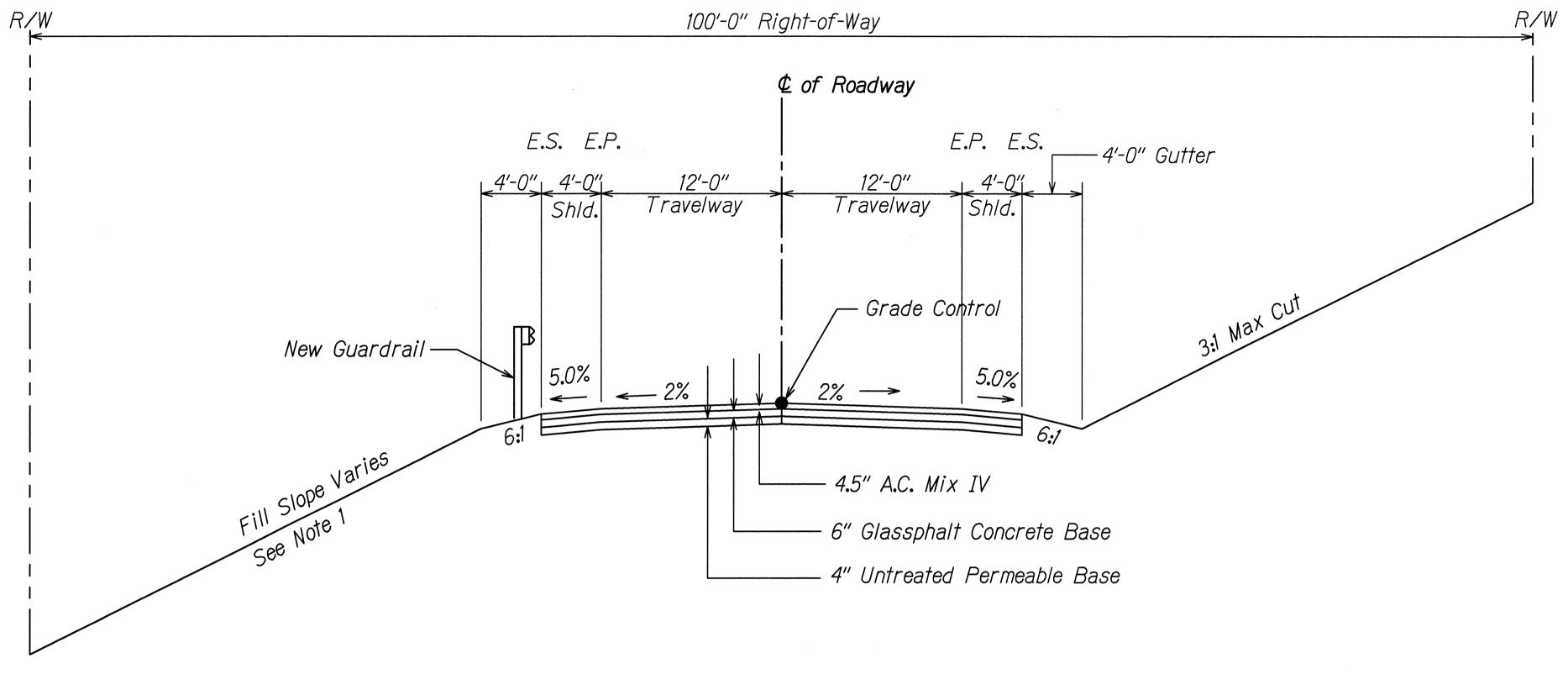
TYPICAL SECTION RAMP # PAVED GUTTER DET.

KEA'AU-PAHOA ROAD VIC. OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2

PROJECT NO. 130B-01-98 Scale: NTS Date: August, 1998

SHEET No. 5 OF 8



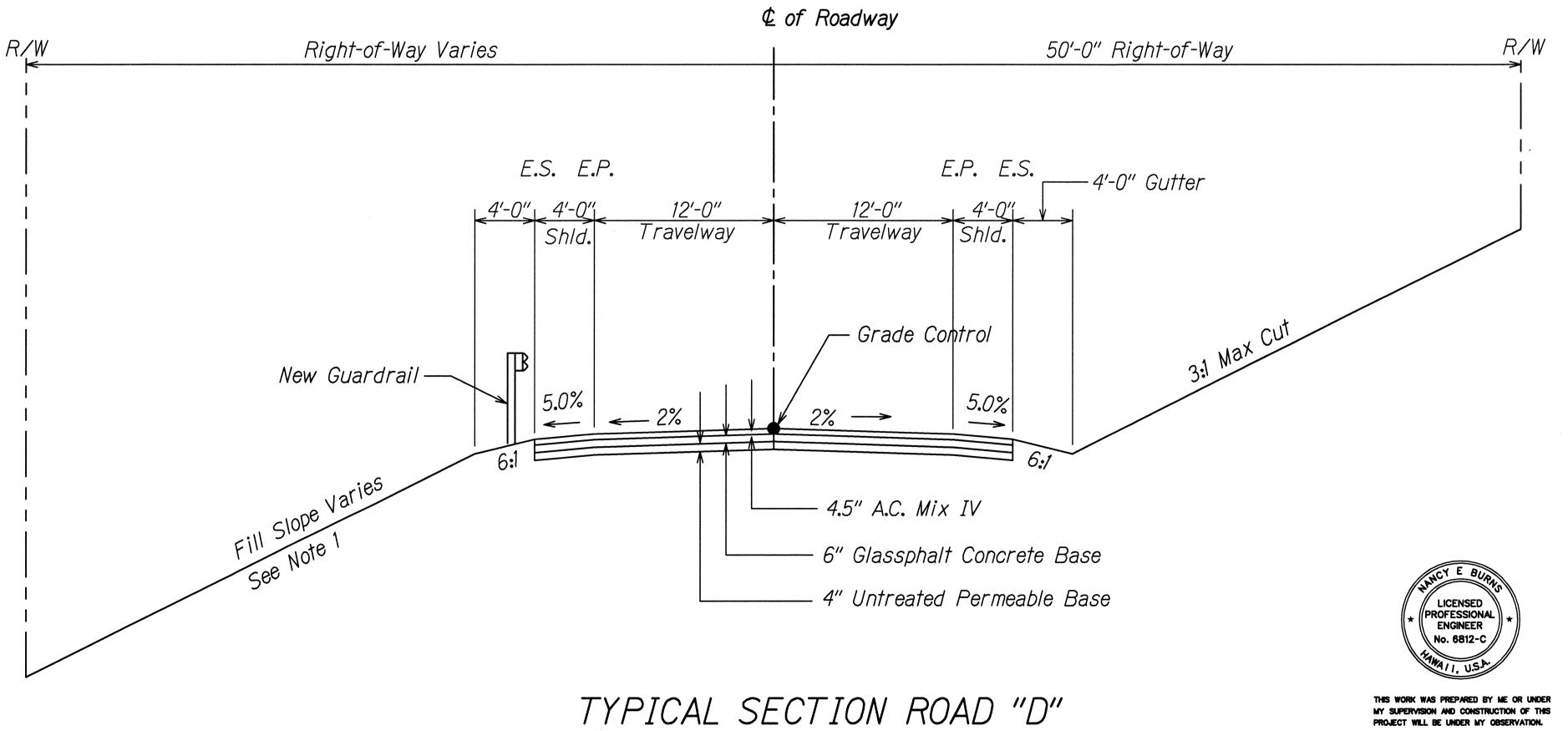


NOTES: 1. Fill Slopes:

0'-3.0'=6:1 3.0'-5.0'=5:1 >5.0'=1.5:1

TYPICAL SECTION ROAD "C"

Not To Scale



Not To Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

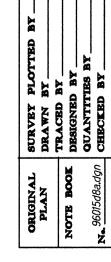
TYPICAL SECTION ROAD "C" \$ ROAD "D"

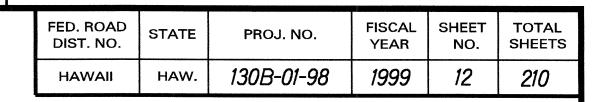
KEA'AU-PAHOA ROAD VIC. OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2 PROJECT NO. 130B-01-98

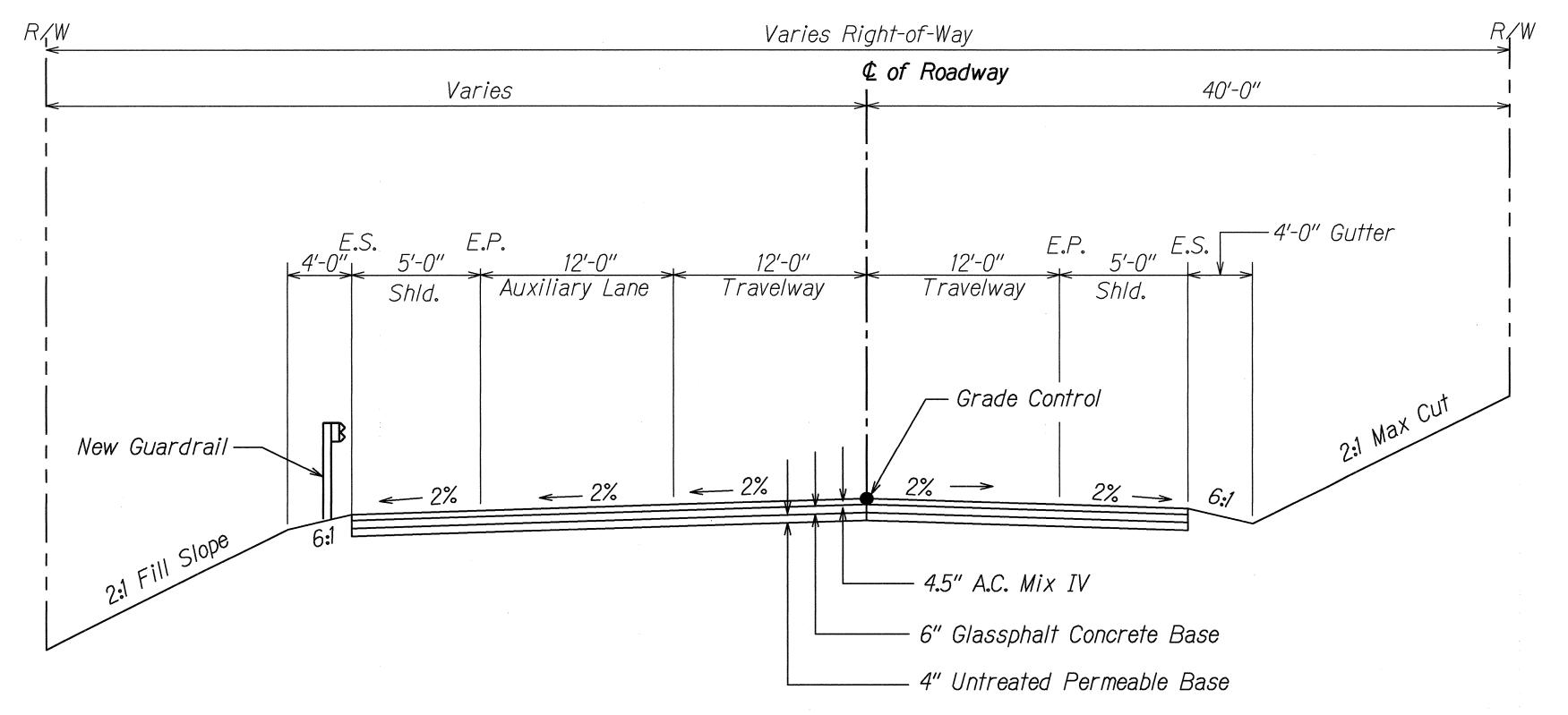
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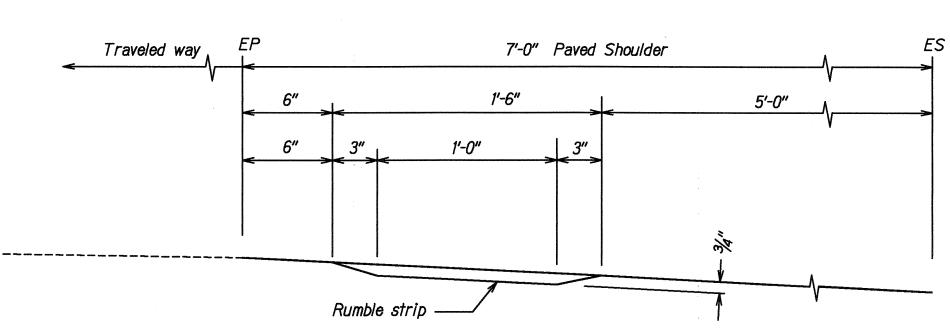
<u>Many & Burns</u> DATE: 8/24/98

Date: August, 1998 SHEET No. 6 OF 8 SHEETS







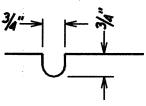


LONGITUDINAL SECTION - RUMBLE STRIP

Scale: N.T.S.

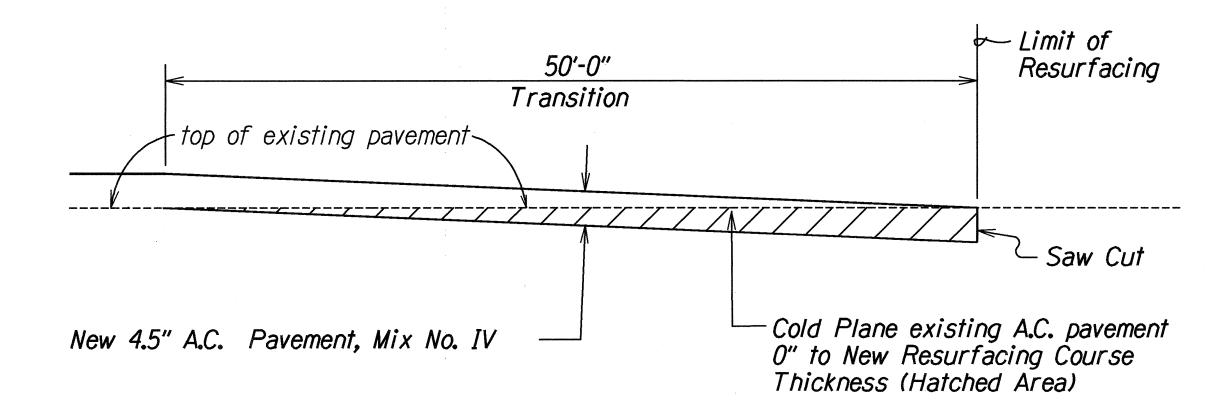
NOTE

Shoulder rumble strips should not be used unless approximately 1.5 meters (5 feet) of clear shoulder width for bicycle use is available between the rumble strips and the outer edge of the paved shoulder.



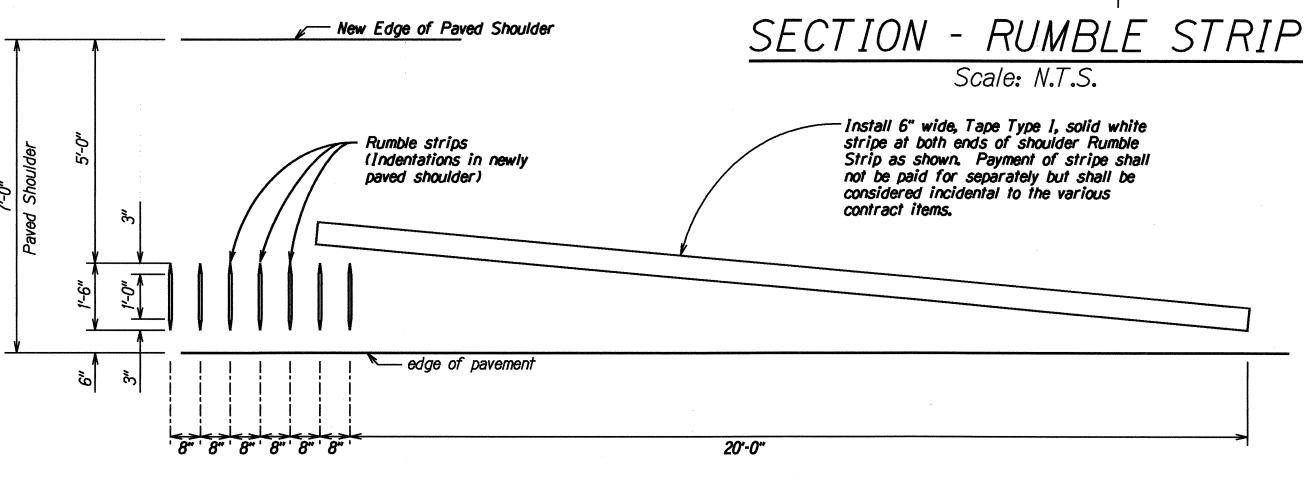
TYPICAL SECTION MILO ST.

Not To Scale



COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT

Not To Scale

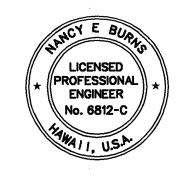


NOTES:

- Rumble Strip depressions must be placed after Breakdown Rolling, with Finish Rolling done after Rumble Strip Rolling but not on depressions unless otherwise directed by the Engineer.
- 2. Rolling for Rumble Strip depressions shall be done when temperature of asphalt is about 180° F (when fines just stick to the palm of hand). Discontinue rolling if mat begins to tear. The rolling of depressions or the stopping of rolling process shall be done in accordance to the the preceding requirements unless otherwise directed by the Engineer.
- Priority is to complete full Breadown Rolling in order to achieve the required density. Full depth depression is a secondary consideration unless otherwise directed by the Engineer.
- 4. The method of constructing the Rumble Strip depressions shall be submitted to the Engineer for acceptance prior to the actual work.
- 5. The construction of the the Shoulder Rumble Strip including the fabrication of the grooving apparatus and 6"white stripe, shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.

NOTE:

Shoulder Rumble Strips applies to all new and widened pavement sections.



<u>PLAN</u>

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

Many E Buy

DATE: 9/11/98

TYPICAL SECTION

MILO ST. \$ DETAILS

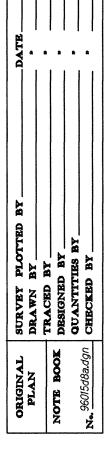
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

KEA'AU-PAHOA ROAD VIC. OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2
PROJECT NO. 130B-01-98

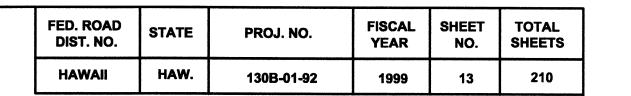
Scale: NTS

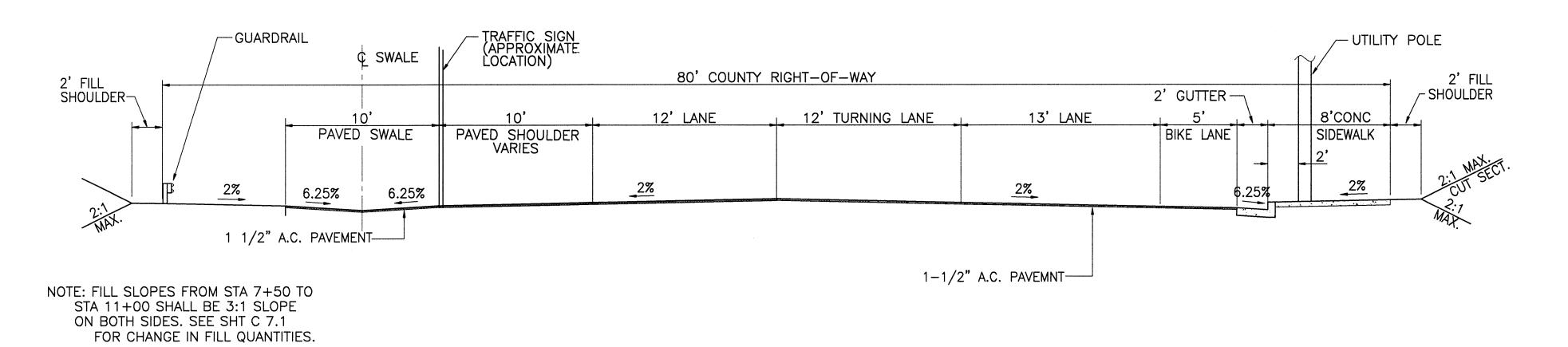
Date: August, 1998

SHEET No. 7 OF 8 SHEETS



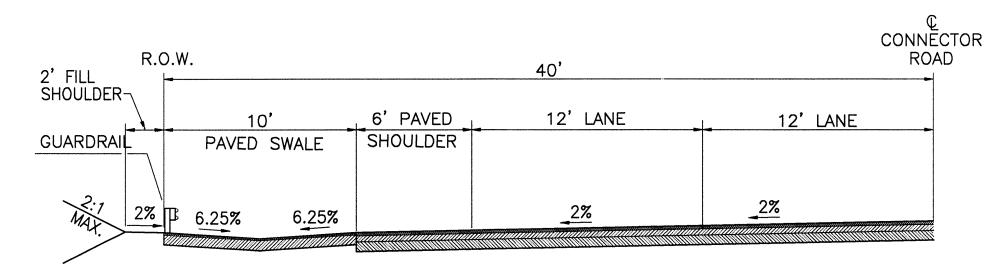
ADD. 12





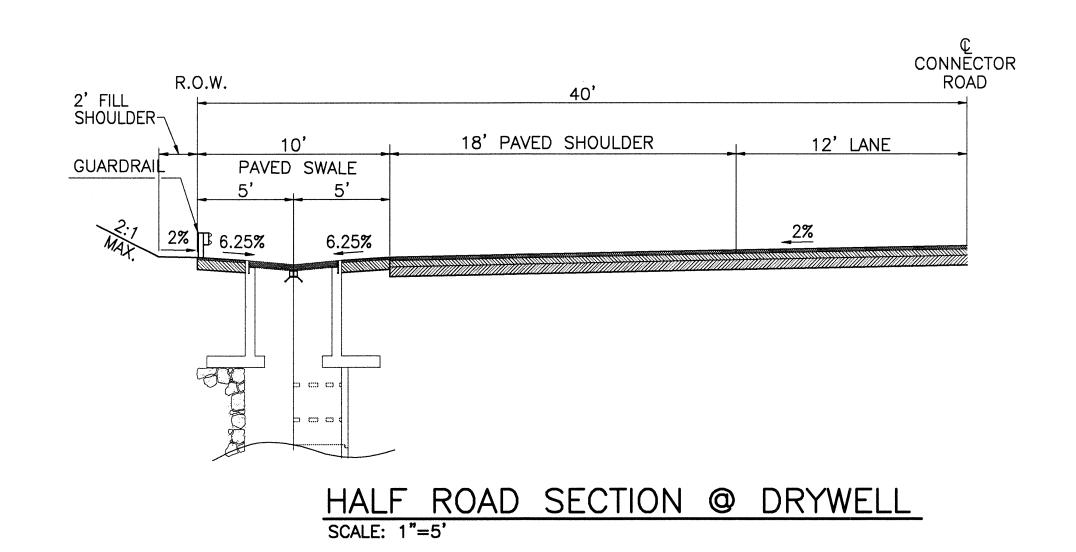
TYPICAL ROAD SECTION — KEA'AU KULA ROAD(CONNECTOR ROAD) SCALE: 1"=5"

THE CONTRACTOR SHALL PAVE THE TOP 1-1/2".



HALF ROAD SECTION—CONNECTOR ROAD STA 0+39.48 TO 3+64.48

SCALE: 1"=5"





The work was prepared by me or under my supervision and construction of this project will be under my observation

<u> Many C Busns</u> DATE: <u>8/24/98</u> DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
KEA'AU KULA ROAD

KEA'AU-PAHOA ROAD VIC, OF KEA'AU
TOWN (KEA'AU BYPASS ROAD), PH. 2

PROJECT NO. 130B-01-98
Scale: As Noted Date: August, 1998

SHEET No. 8 OF 8 SHEETS

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