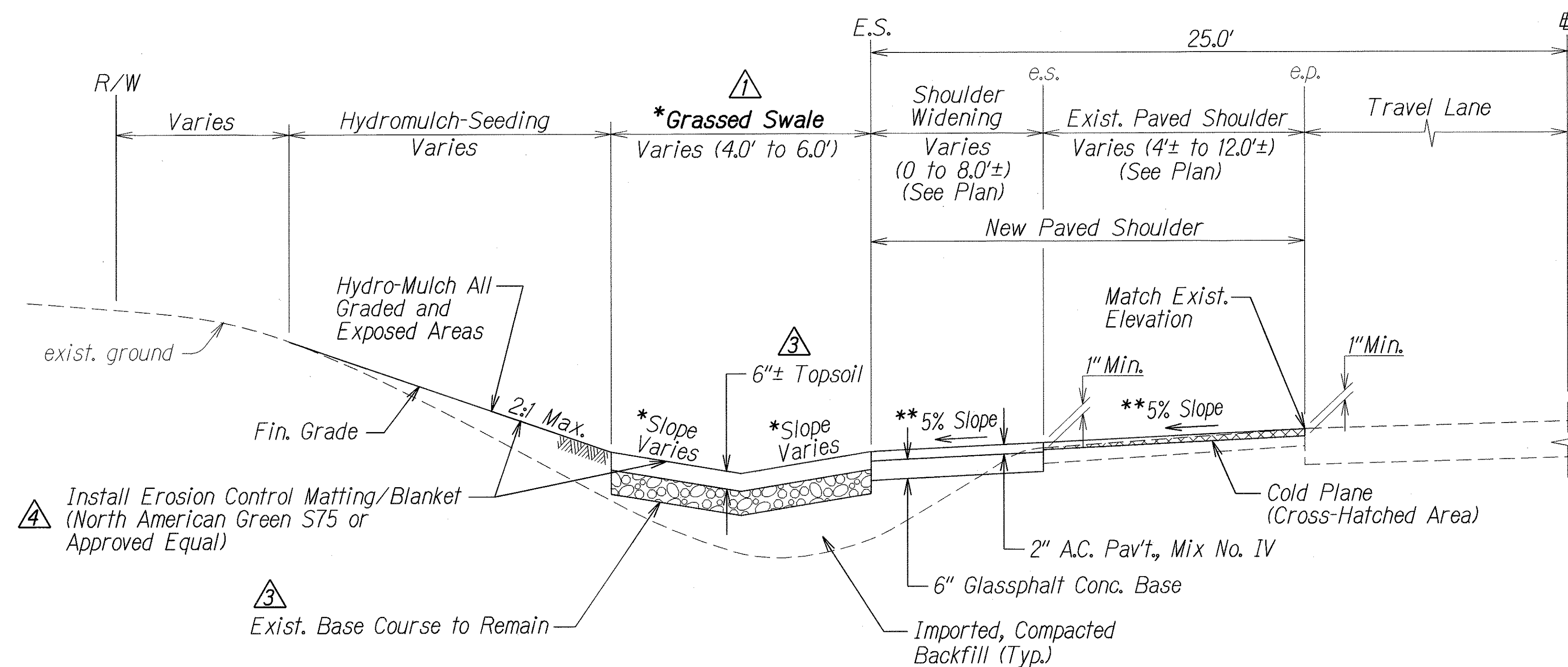
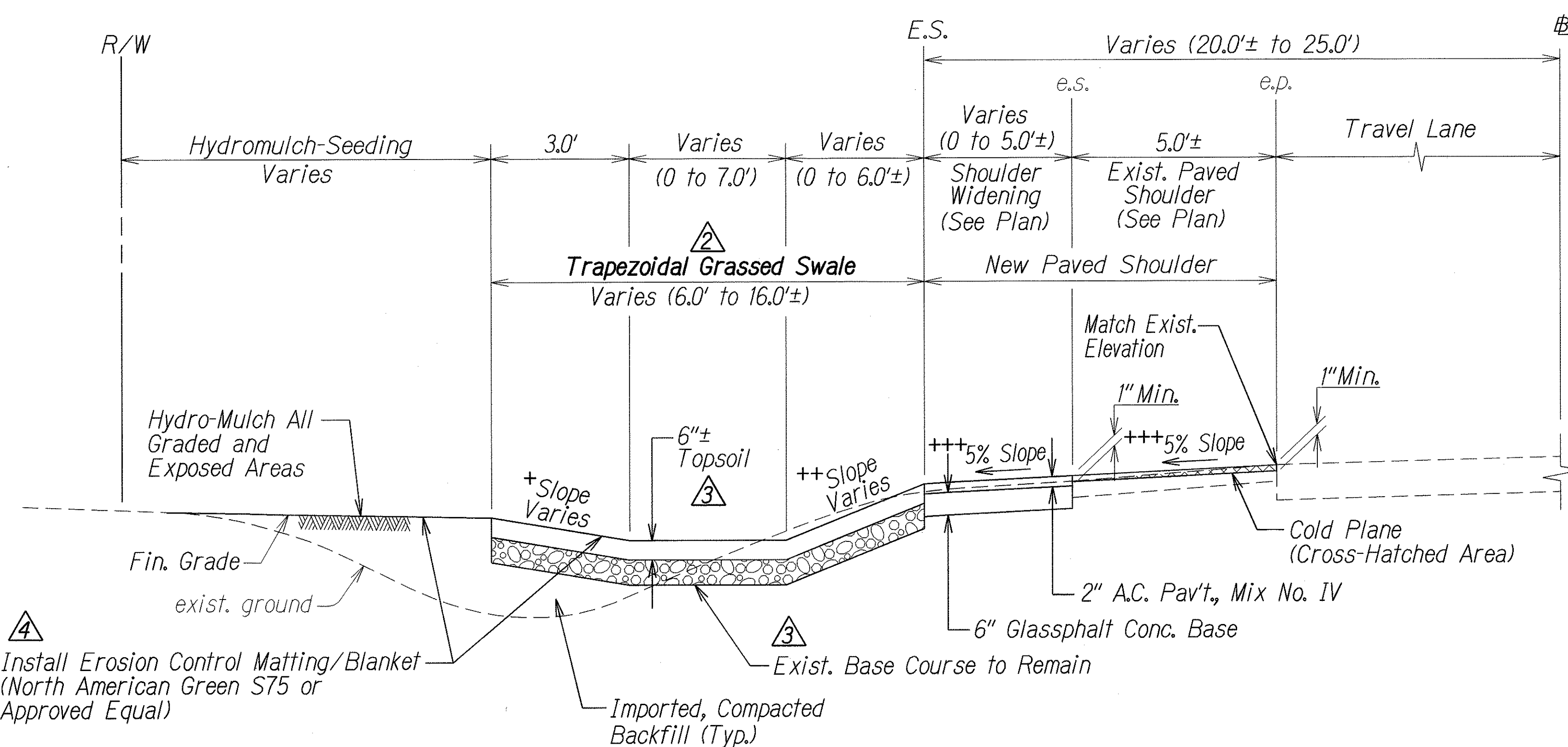


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-058-1(4)	2005	C.O. 6	23



SECTION A
Scale: 1/2" = 1'



SECTION B
Scale: 1/2" = 1'

*GRASSED SWALES:

- △ Sta. 42+90 to Sta. 43+70 :
Grassed Swale
- Sta. 43+70 to Sta. 44+00 :
Swale transition Sta. 43+70
to Sta. 44+00
- Sta. 44+00 to Sta. 44+50 :
Grassed Swale
- Sta. 44+50 to Sta. 44+81.45 :
Swale slope transition from Sta. 44+50
to Sta. 44+81.45
- Sta. 45+15.48 to 45+40± :
Swale slope transition from Sta. 45+15.48
to Sta. 45+40±
- Sta. 45+40 to Sta. 46+30 :
Swale

**PAVED SHOULDERS:

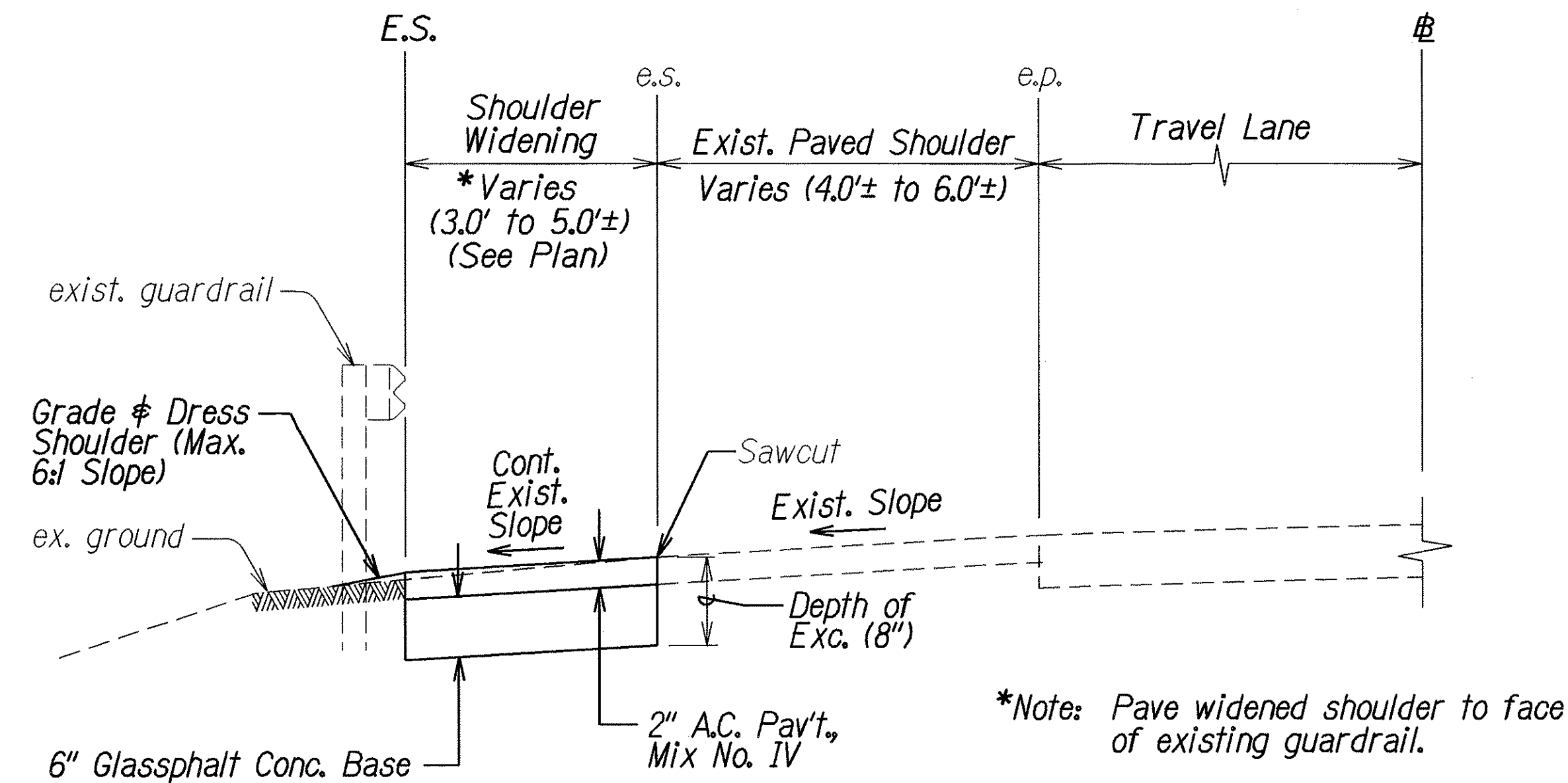
- Sta. 42+90 to Sta. 43+00 :
Shoulder slope transition from existing slope at Sta. 42+90
to 5.0% at Sta. 43+00
- Sta. 43+00 to Sta. 44+50 :
Shoulder slope 5.0%
- Sta. 44+50 to Sta. 44+81.45 :
Shoulder slope transition from 5.0% at Sta. 44+50
to 8.33% at Sta. 44+81.45
- Sta. 45+15.48 to Sta. 45+40 :
Shoulder slope transition from 8.33% at Sta. 45+15.48
to 5.0% at Sta. 45+40
- Sta. 45+40 to Sta. 46+30 :
Shoulder slope 5.0%
- Sta. 46+30 to Sta. 46+60.02 :
Shoulder slope transition from 5.0% at Sta. 46+30
to existing slope at Sta. 46+60.02

- △ Sta. 46+30 to Sta. 46+60.02 (Trapezoidal Swale Left Side Slope) :
Side slope transition from 6:1 at Sta. 46+30
to 5:1 at Sta. 46+60.02
- ++ Sta. 46+30 to 46+60.02 (Trapezoidal Swale Right Side Slope) :
Swale side slope transition from 6:1 at Sta. 46+30
to 2 1/4:1 at Sta. 46+60.02
- +++ Sta. 46+30 to Sta. 46+60.02 :
Shoulder slope transition from 5.0% at Sta. 46+30
to existing shoulder slope at Sta. 46+60.02

10/01/07	△	Added Callout for the Installation of Erosion Control Matting/Blanket
	△	Called Out Topsoil Thickness & Exist. Base Course
	△	Changed "Grout Rubble Paving" to "Trapezoidal Grassed Swale"
	△	Changed "Concrete Gutter" to "Grassed Swale"
DATE		REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
TYPICAL SECTIONS
NAWILIWILI ROAD BIKEWAY
Kaumualii Highway to Waapa Road
Fed. Aid Project No. CMAQ-058-1(4)
Scale: As Shown Date: April 2005
SHEET No. 1 OF 2 SHEETS

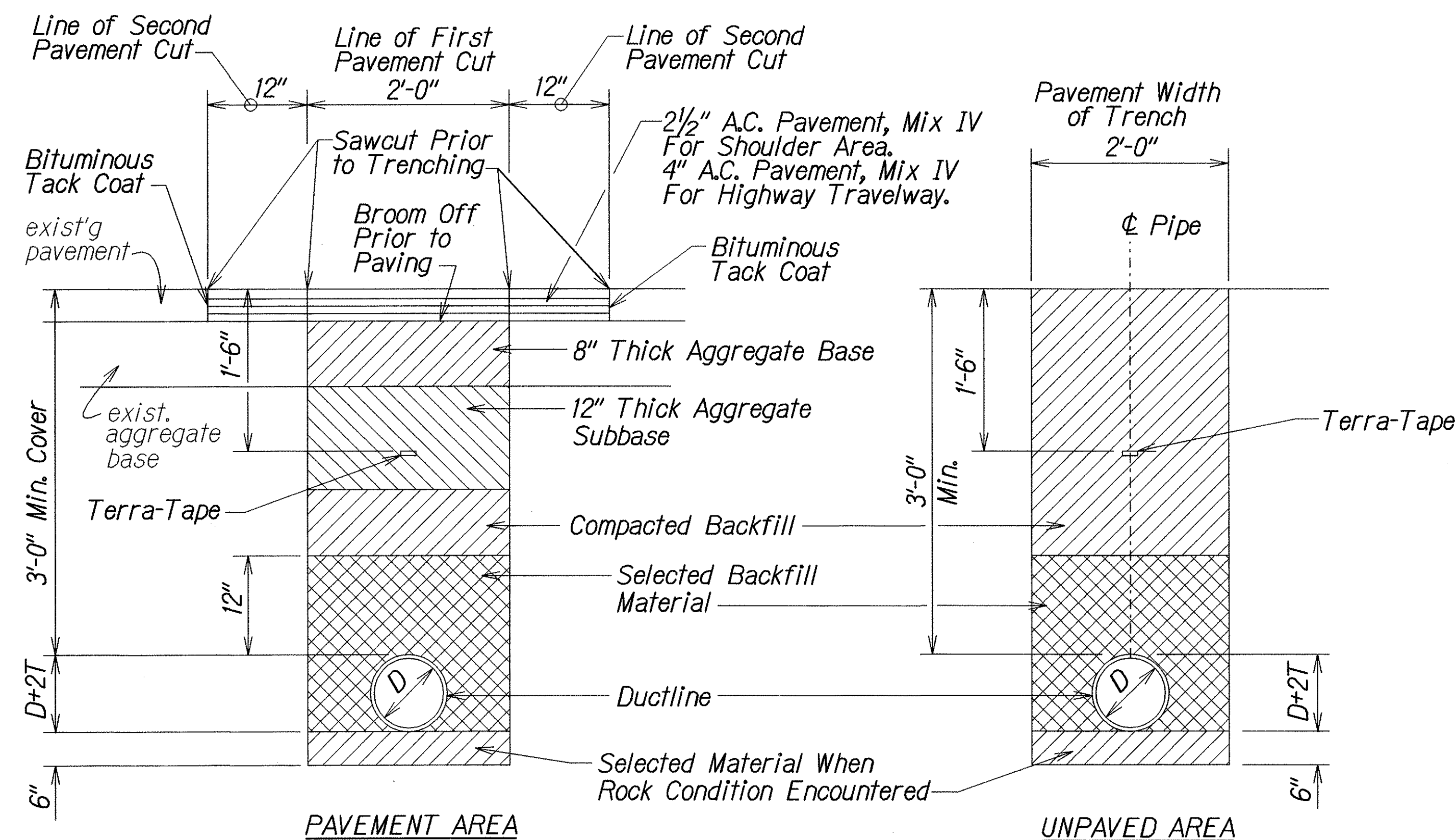
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-058-1(4)	2005	7	23



Sta. 77+00 to Sta. 86+00 o/s Rt.
Sta. 97+35 to Sta. 103+00 o/s Lt.

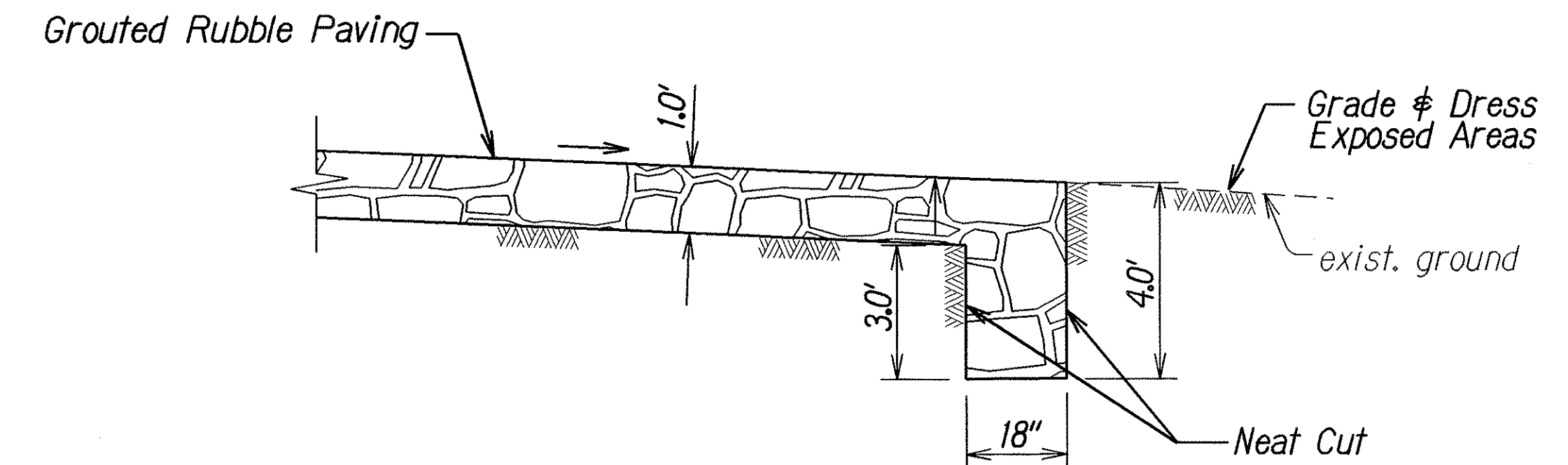
SHOULDER WIDENING DETAIL AT GUARDRAIL LOCATIONS

Scale: 1/2" = 1'



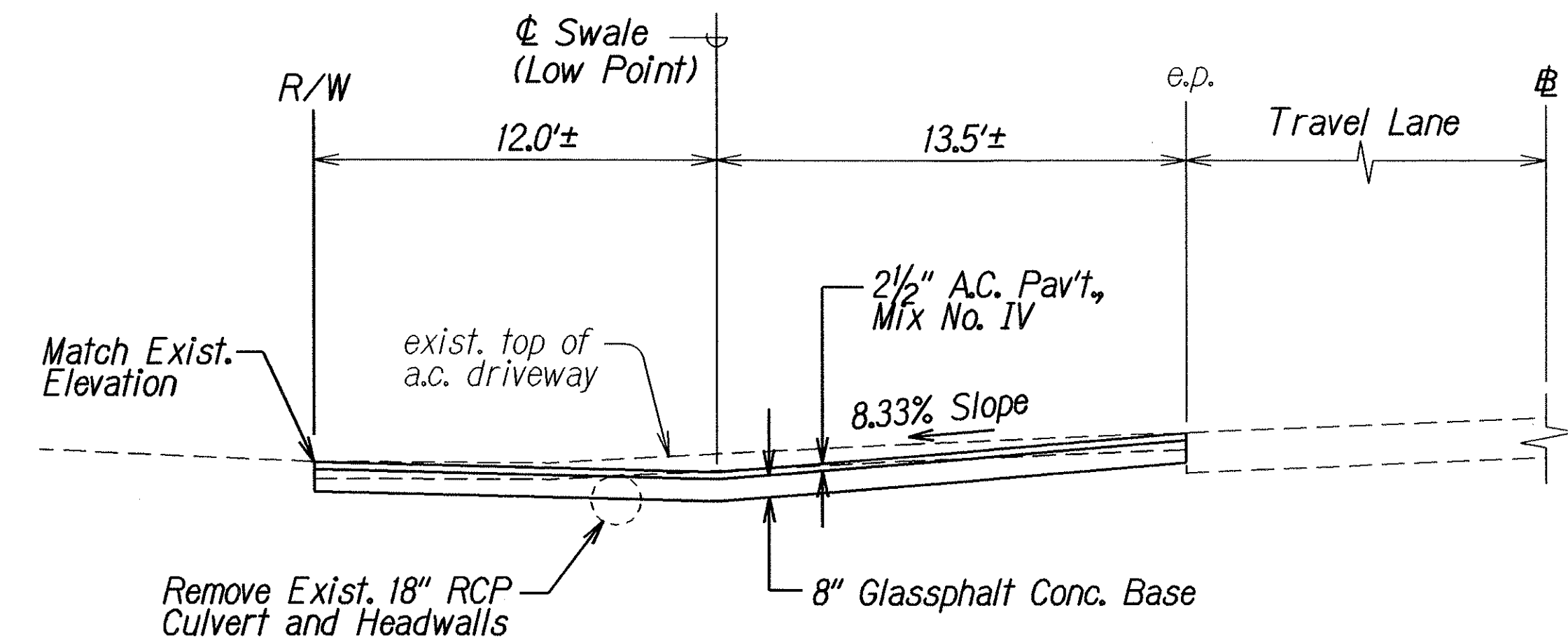
TYPICAL TRENCH RESTORATION (FOR WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY)

Not to Scale



SECTION C

Scale: 1/2" = 1'



DRIVEWAY SECTION D

Scale: 1/4" = 1'

Notes:

1. Removal and disposal of existing headwalls, 18" RCP culvert and concrete slab shall not be paid for separately but shall be considered incidental to the various contract items.
2. Backfilling the void resulting from the removal of existing headwalls and pipe culvert shall not be paid for separately but shall be considered incidental to the various contract items.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	4/04	
NOTED BY		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

NAWILIWILI ROAD BIKEWAY

Kaunualii Highway to Waapa Road
Fed. Aid Project No. CMAQ-058-1(4)

Scale: As Shown Date: April 2005

SHEET No. 2 OF 2 SHEETS