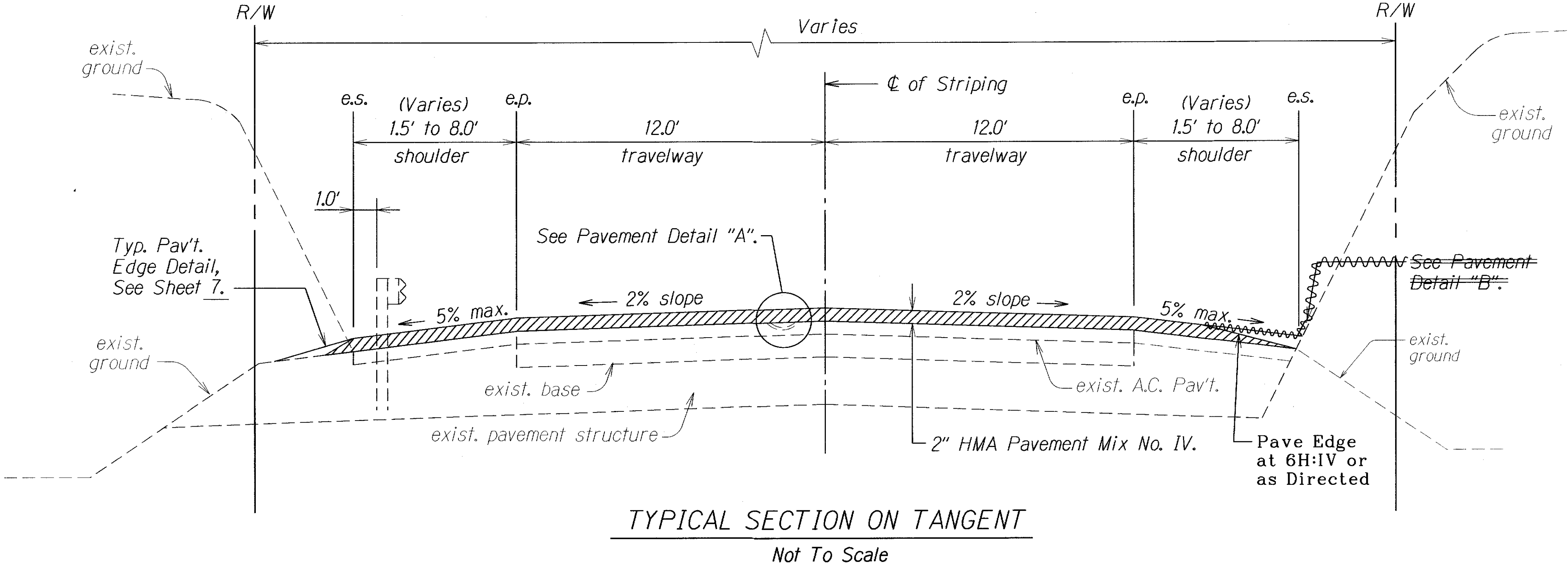
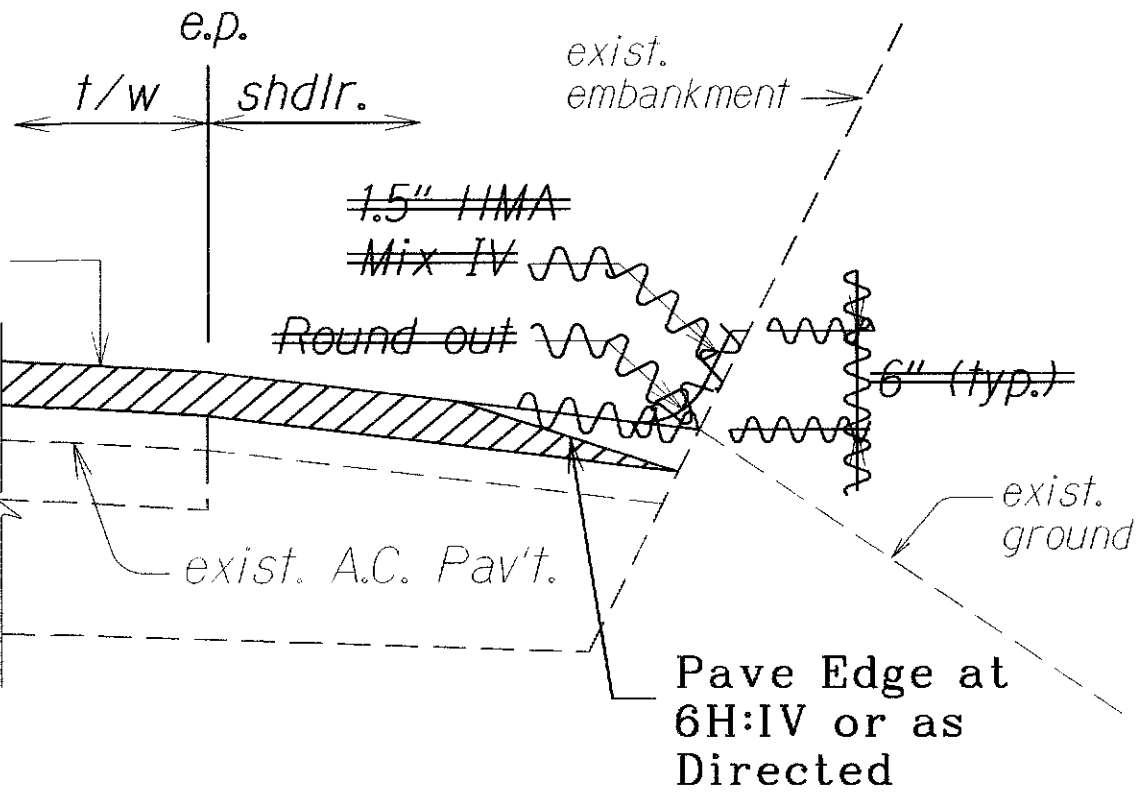
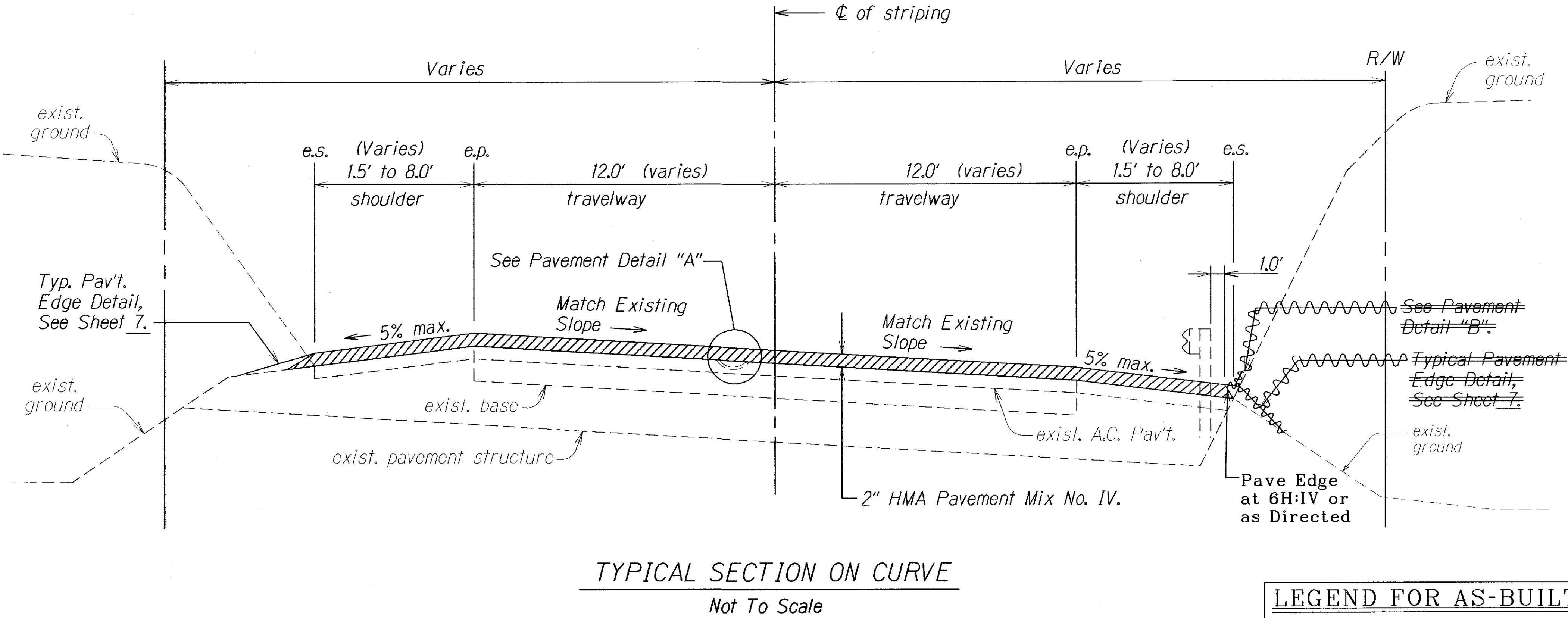
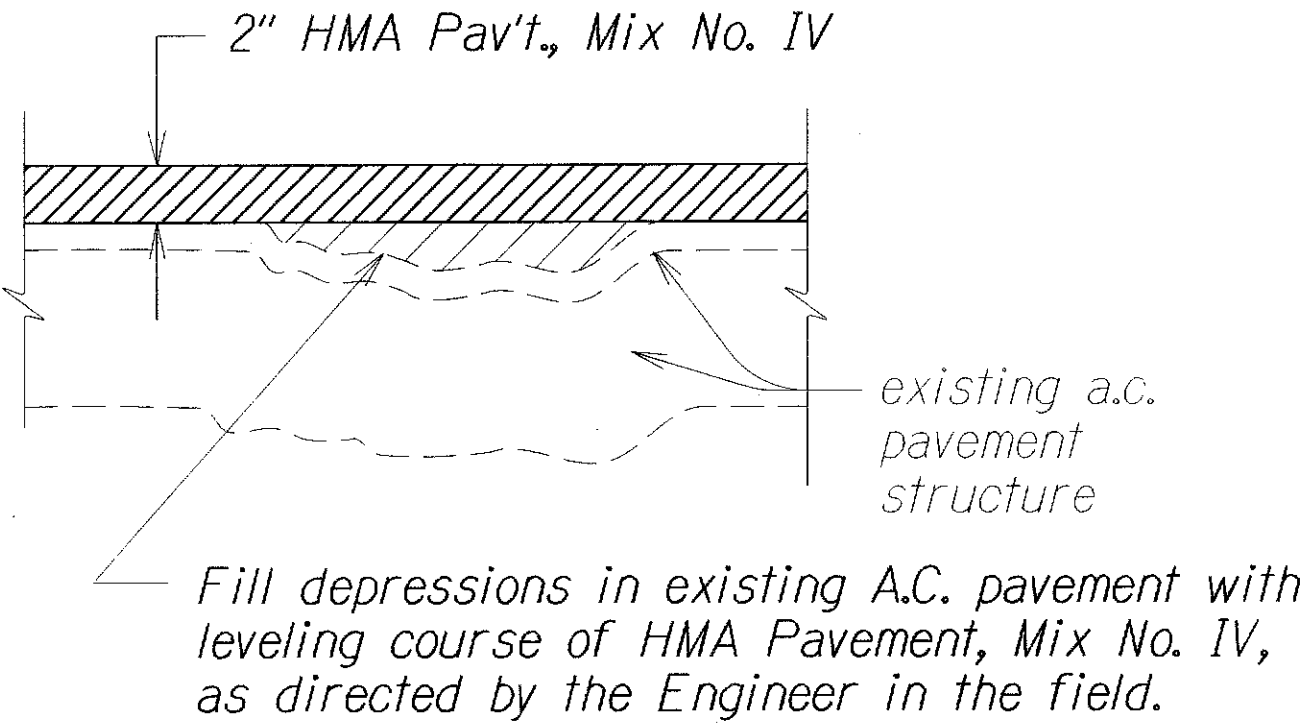


DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	6	41



- NOTES :**
- See sheet 21 for limits of Probe and Grout.
 - See sheet 9 for Probe and Grout Layout Pattern Detail. .



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION

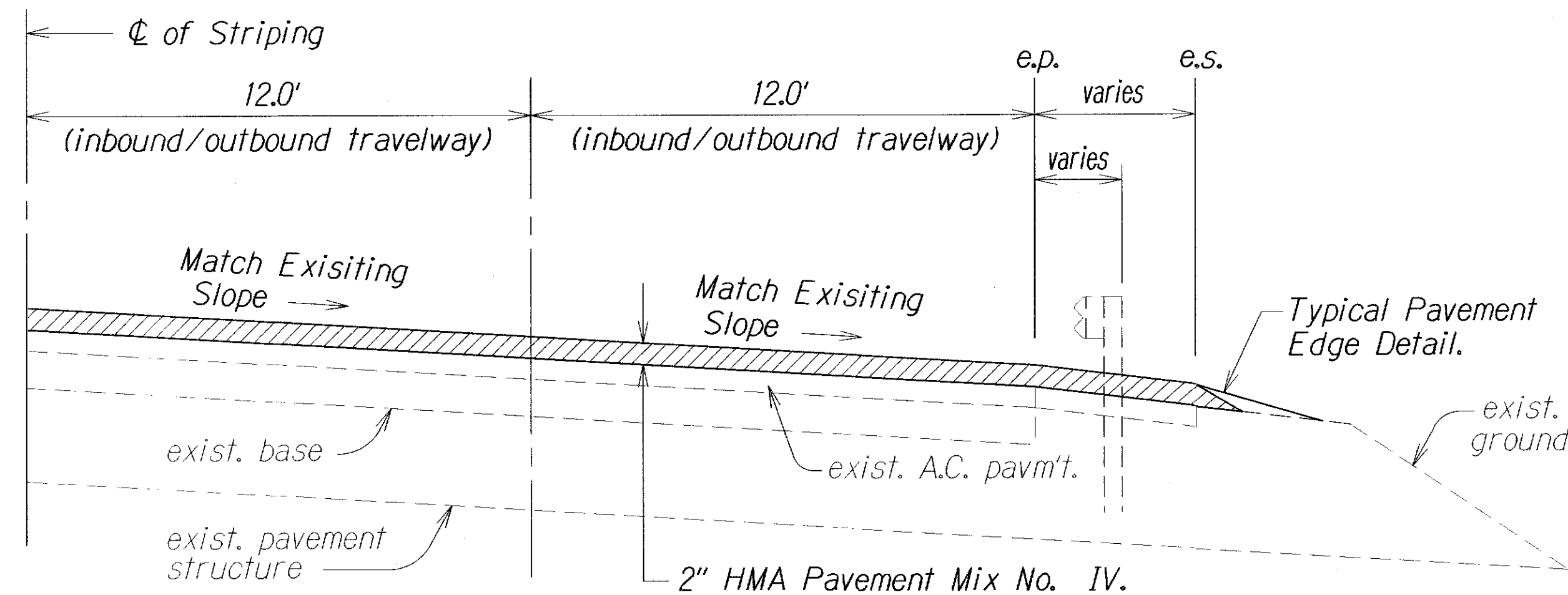
HAWAII BELT ROAD RESURFACING
Pepeekeo to Hakalau
Federal Aid Project No. NH-019-2(067)

Scale: None

Date: March, 2014

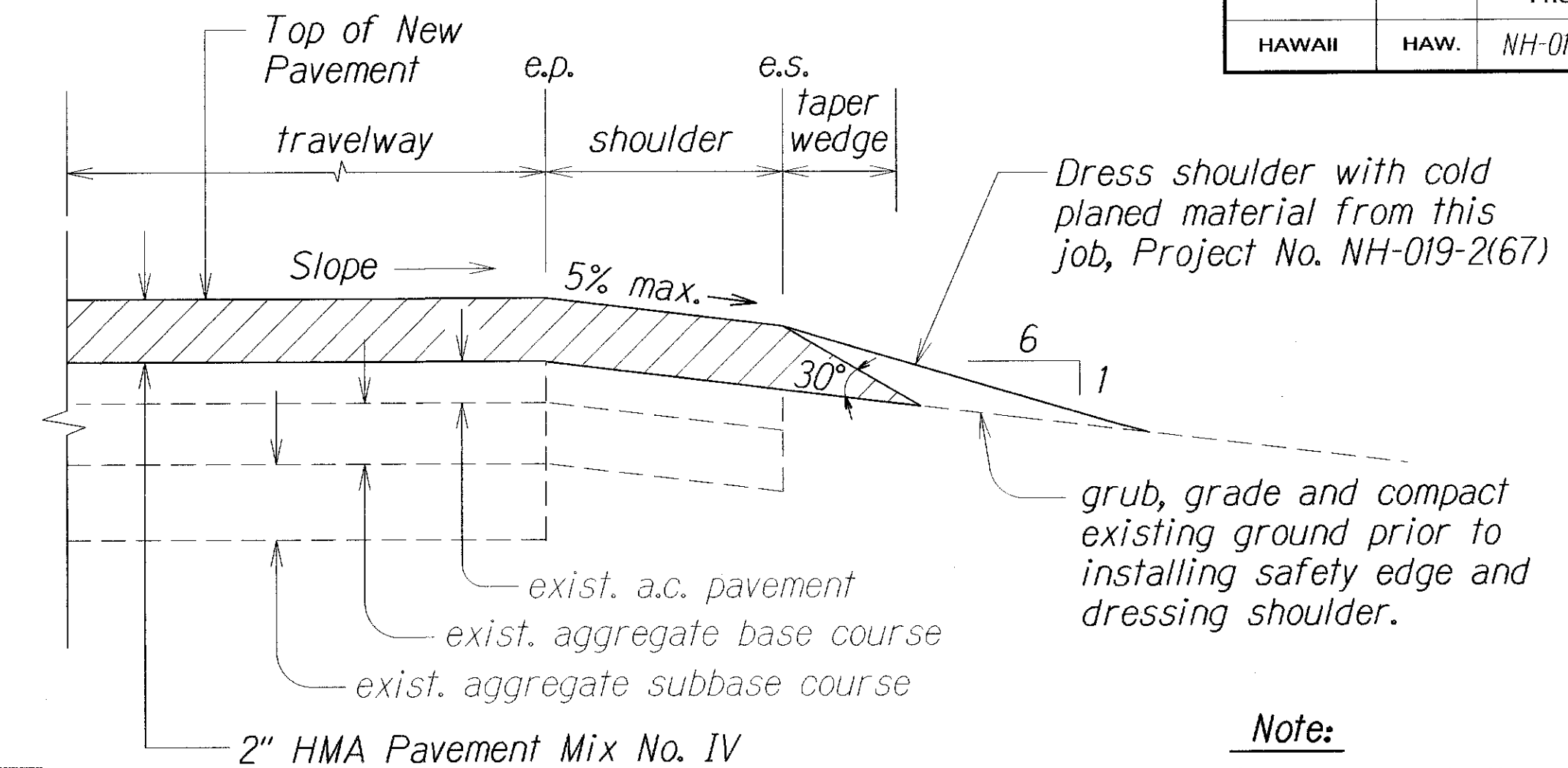
SHEET No. 1 OF 3 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	7	41



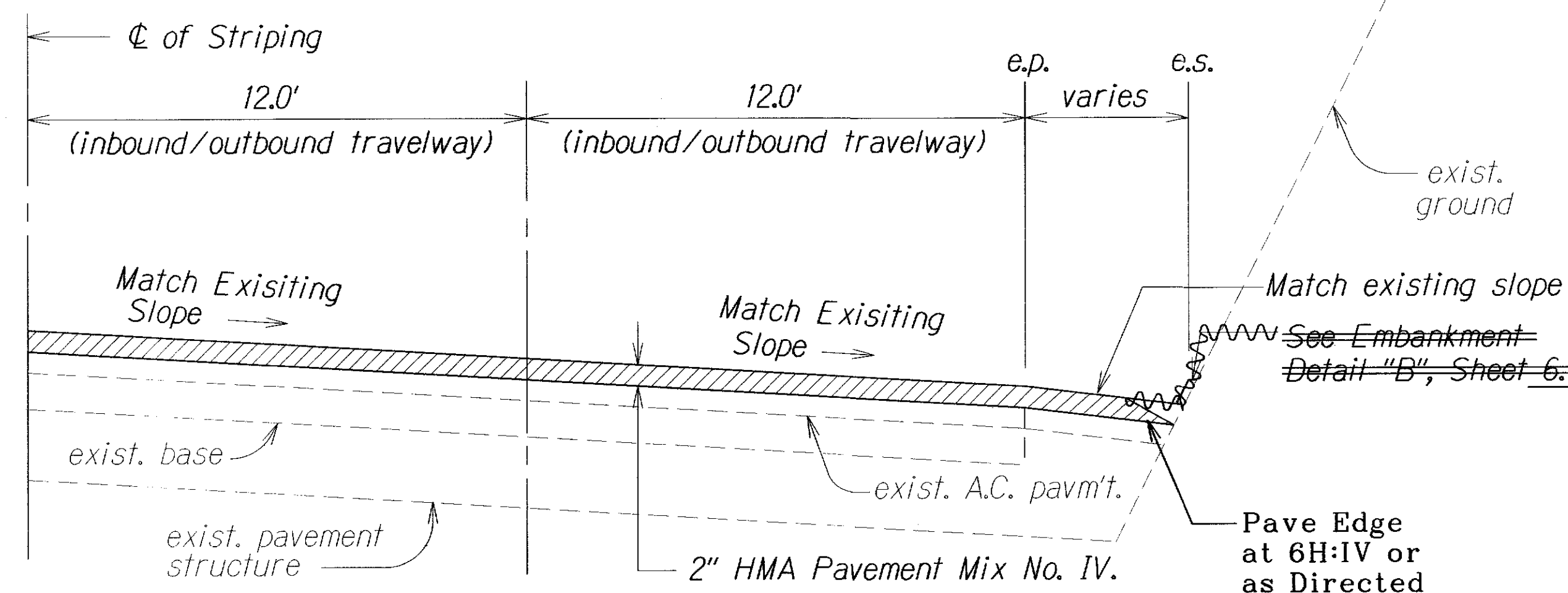
TYPICAL HALF SECTION WITH CLIMBING LANE ON CURVE
Not To Scale

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

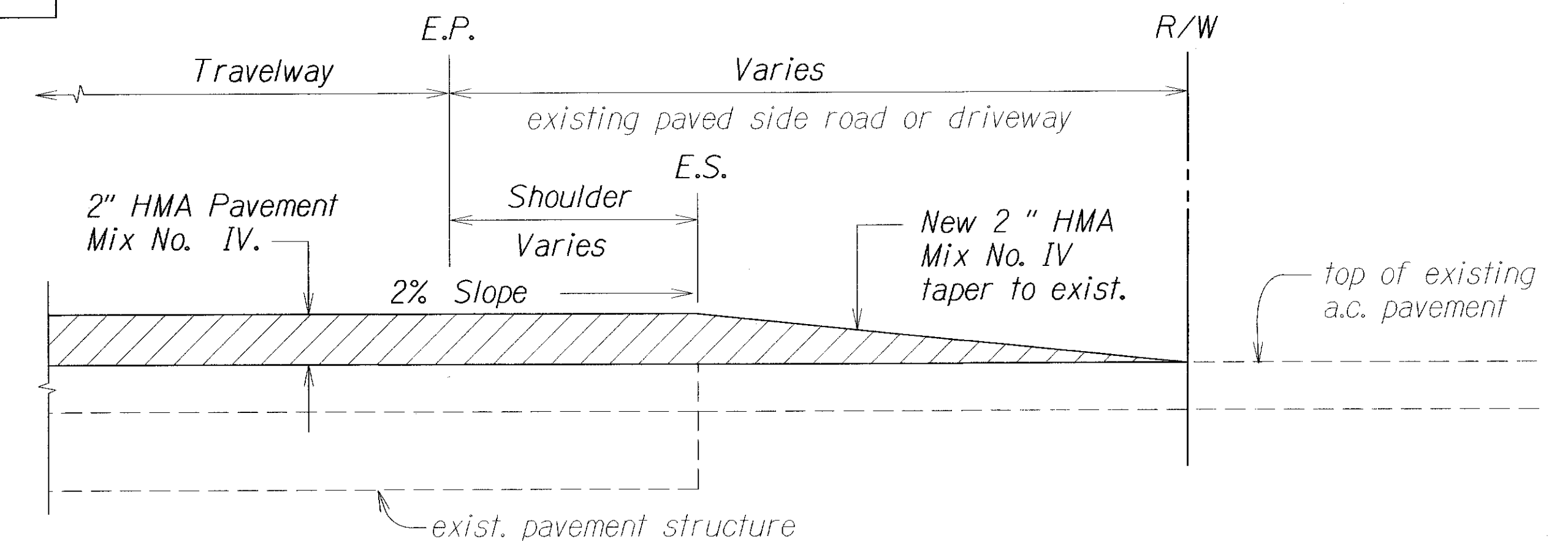


TYPICAL PAVEMENT EDGE DETAIL
Not To Scale

Note:
Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.



TYPICAL HALF SECTION WITH CLIMBING LANE
Not To Scale



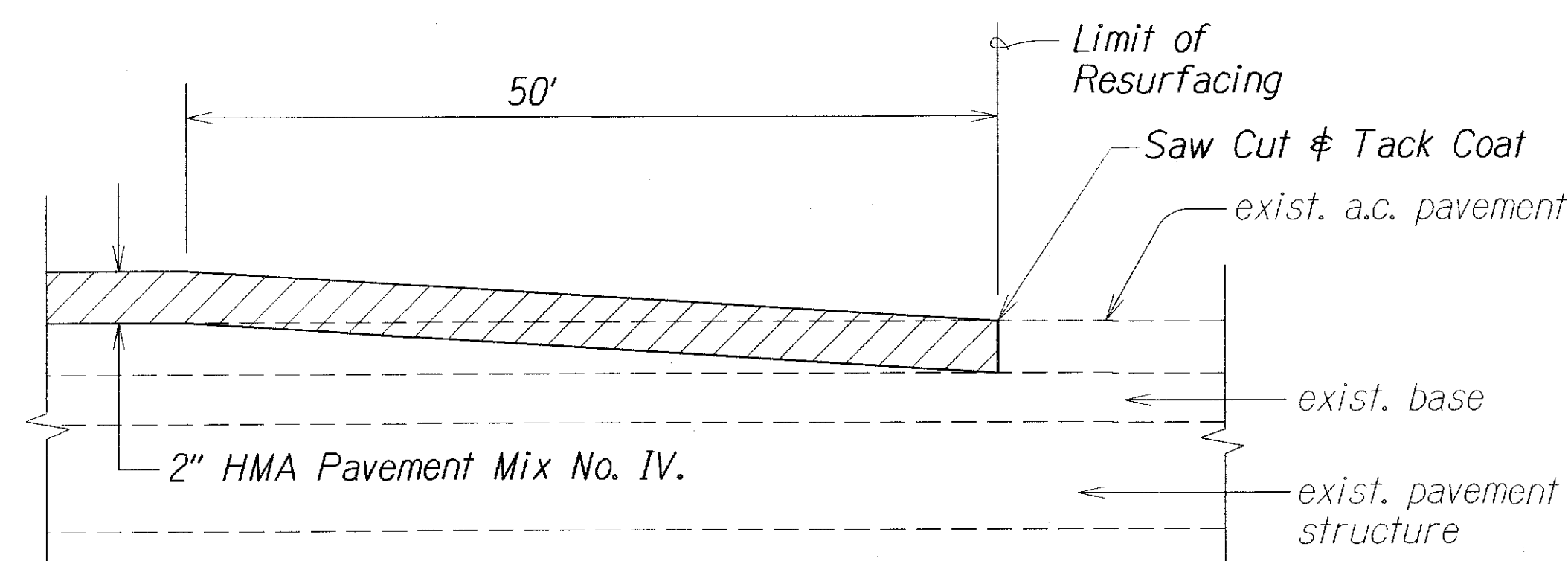
A. C. RESURFACING AT PAVED SIDEROAD OR PAVED DRIVEWAY DETAIL
Not To Scale

Note:
Engineer to determine and verify distress areas and types of distress in the field.

M.P.	MINOR PAVEMENT DISTRESS AREAS	
10.00 - 12.69	Sta. 144+50 to Sta. 197+94.69 (BK)	Sta. 0+00 (AH) to Sta. 89+61.51
12.69 - 14.31	Sta. 89+61.51 to Sta. 170+62.75 (BK)	Sta. 70+58.63 (BK) to Sta. 65+46
14.31 - 15.55	Sta. 65+46 to Sta. 0+01.17 (AH)	Sta. 8+24.21 (BK)
SEVERE PAVEMENT DISTRESS AREAS		
10.00 - 12.69	Sta. 144+50 to Sta. 197+94.69 (BK)	Sta. 0+00 (AH) to Sta. 89+61.51
12.69 - 14.31	Sta. 89+61.51 to Sta. 170+62.75 (BK)	Sta. 70+58.63 (BK) to Sta. 65+46
14.31 - 15.55	Sta. 65+46 to Sta. 0+01.17 (AH)	Sta. 8+24.21 (BK)

2" Cold-plane and replace. Install Glasgrid 8512TF prior to final 2" overlay.

4" Cold-plane and replace. Install Glasgrid 8512TF prior to final 2" overlay.



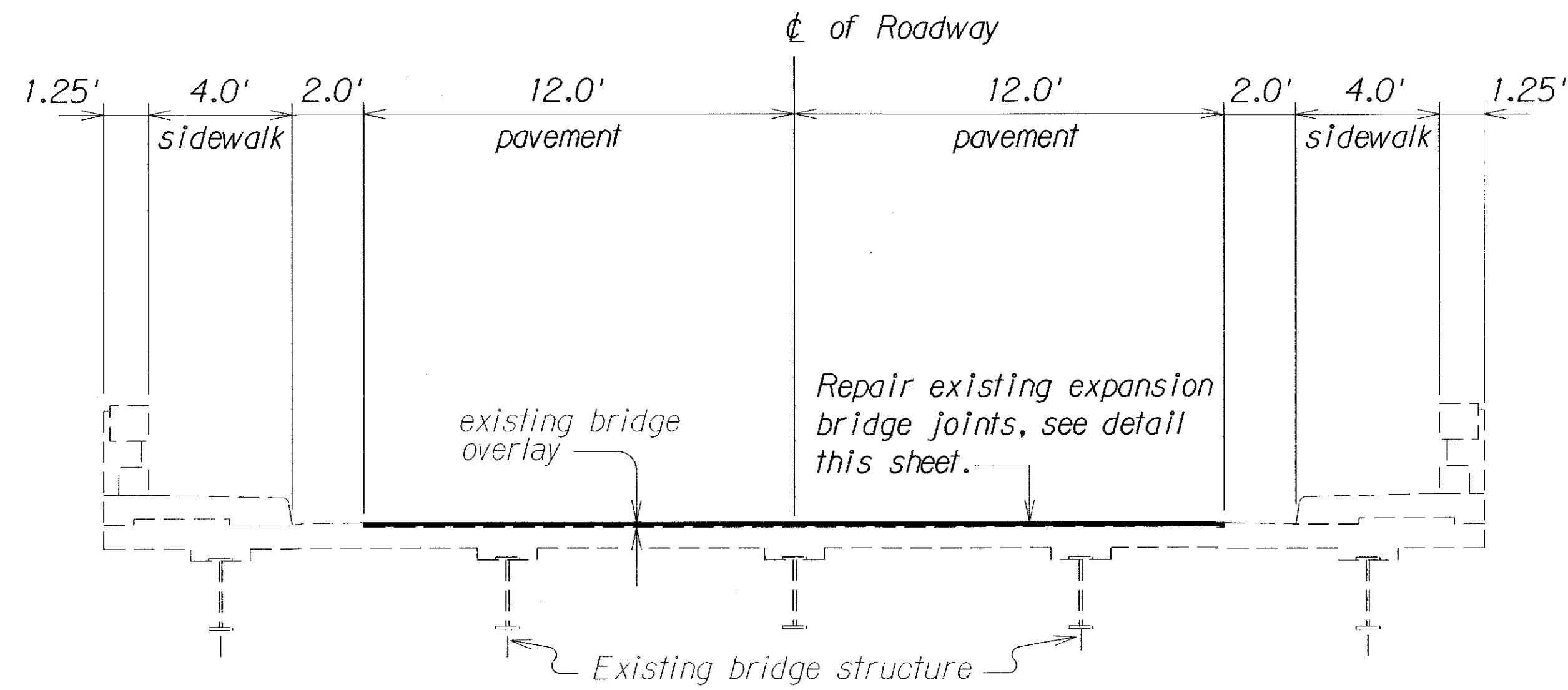
COLD PLANED LIMITS AT BEGINNING & END OF PROJECT
Not To Scale

SURVEY PLOTTED BY	DATE
ORIGINAL PLAN	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
2	

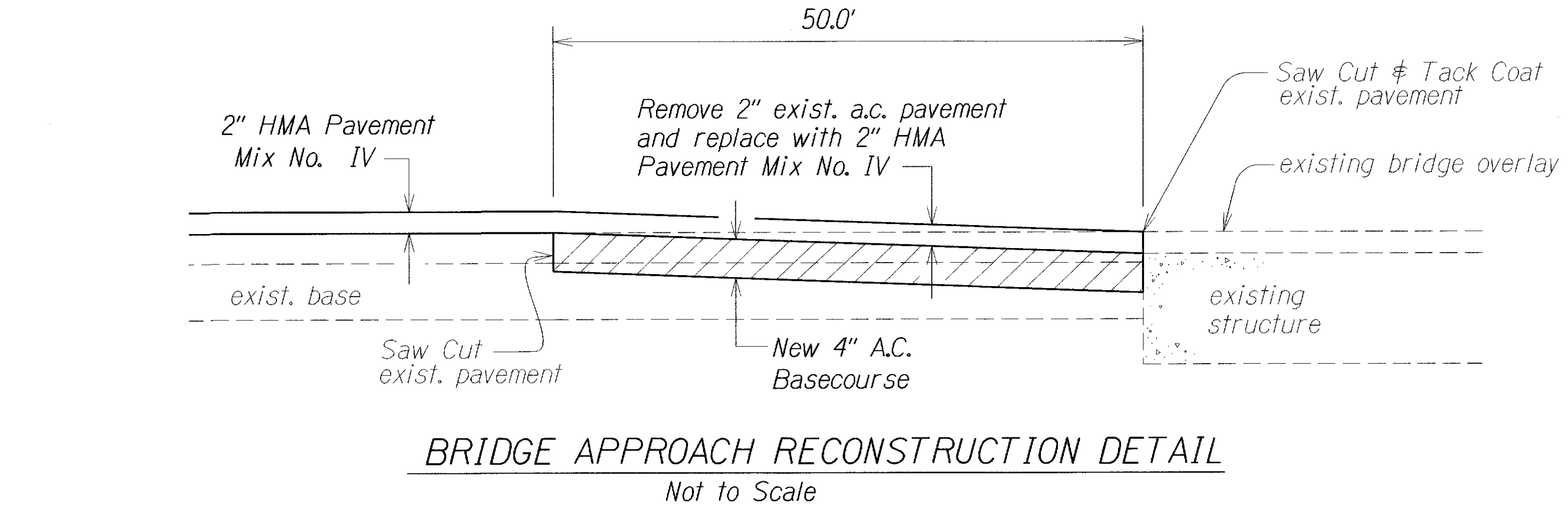
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION
HAWAII BELT ROAD RESURFACING
Pepeekeo to Hakalau
Federal Aid Project No. NH-019-2(067)
Scale: None Date: March, 2014

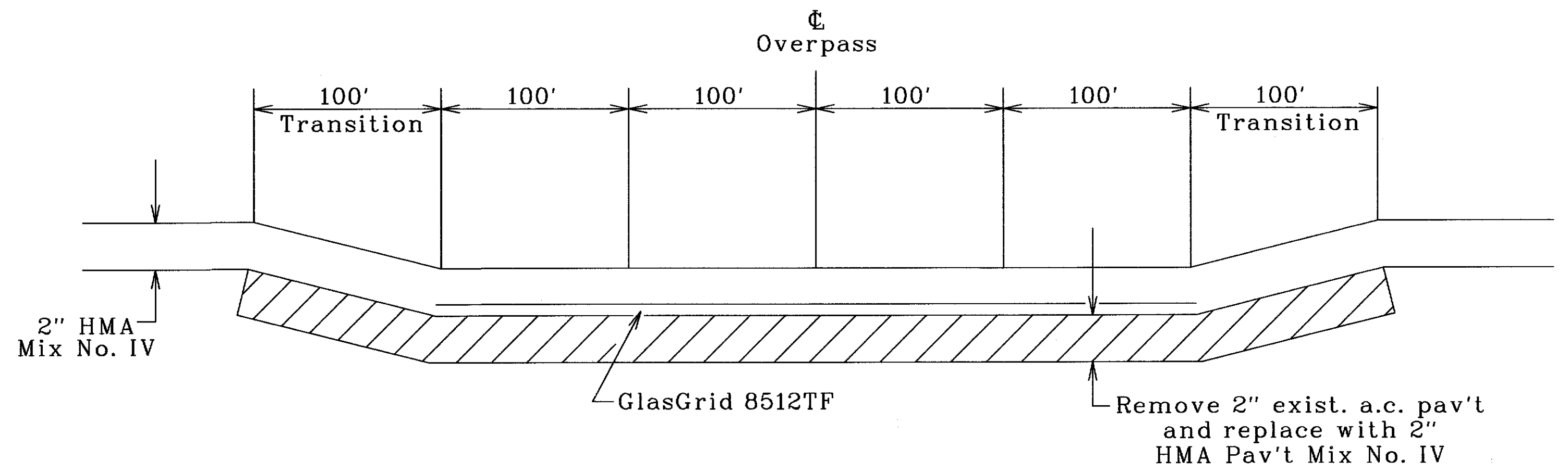
DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	8	41



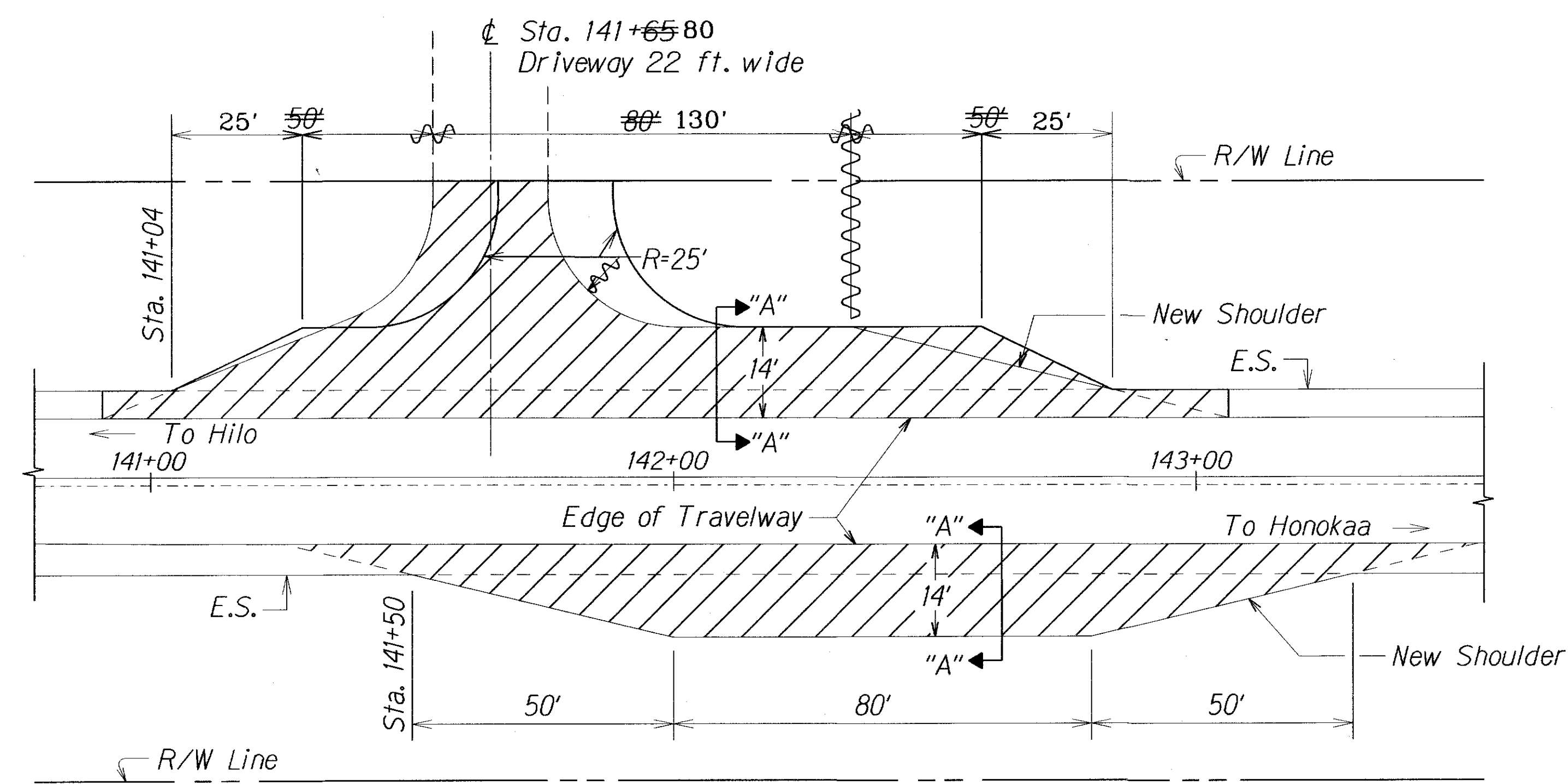
TYPICAL SECTION AT KOLEKOLE & PAHEEHÉE BRIDGE
Not To Scale



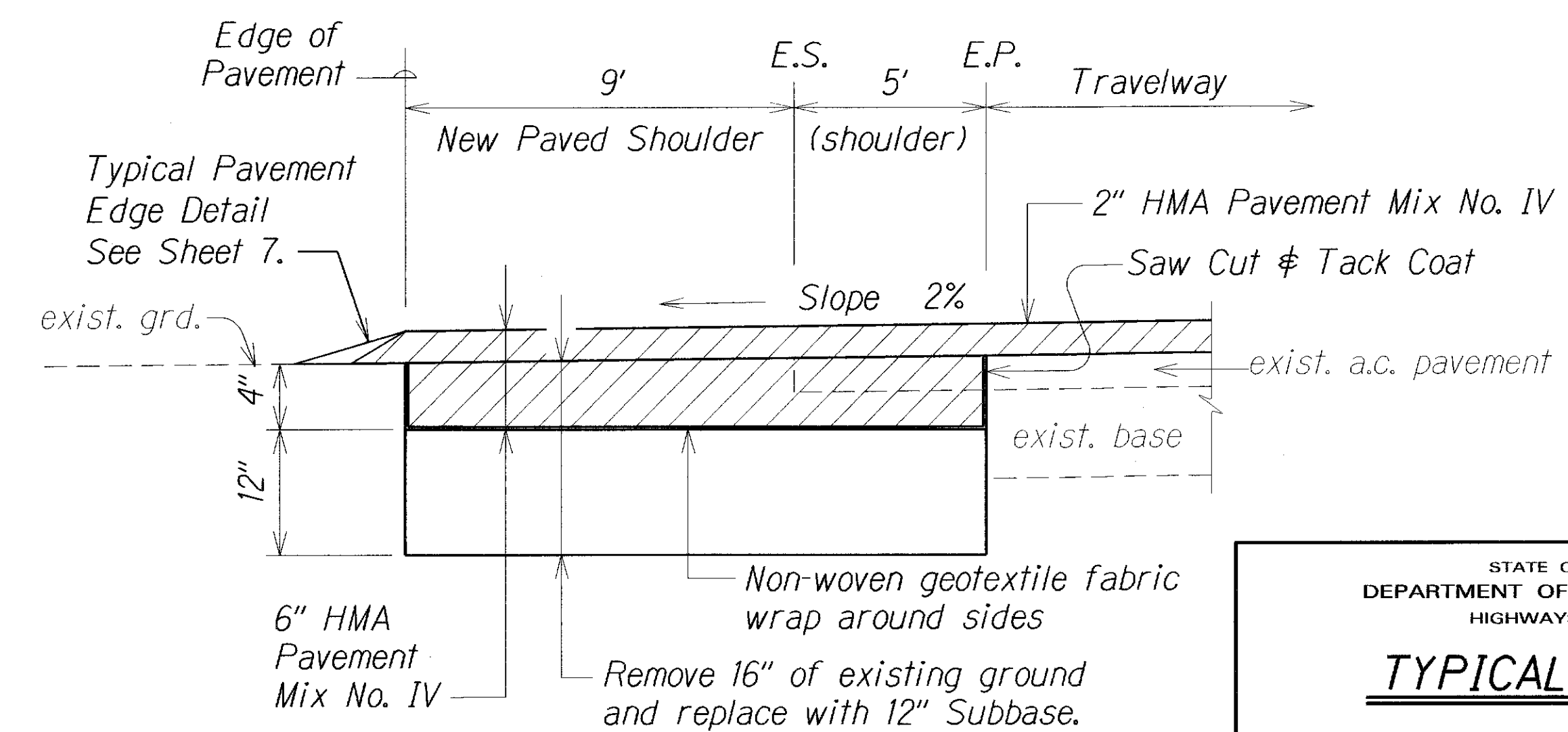
BRIDGE APPROACH RECONSTRUCTION DETAIL
Not to Scale



PAVEMENT RECONSTRUCTION & RESURFACING AT OVERPASS
Plantation Road Overpass: Sta. 36+61
Hakalau Pedstrian Overpass: Sta. 19+45
Not to Scale



ADDITIONAL PAVED SHOULDER AT C STATION 141+65 (±)
Not To Scale



SECTION "A - A"
Not To Scale

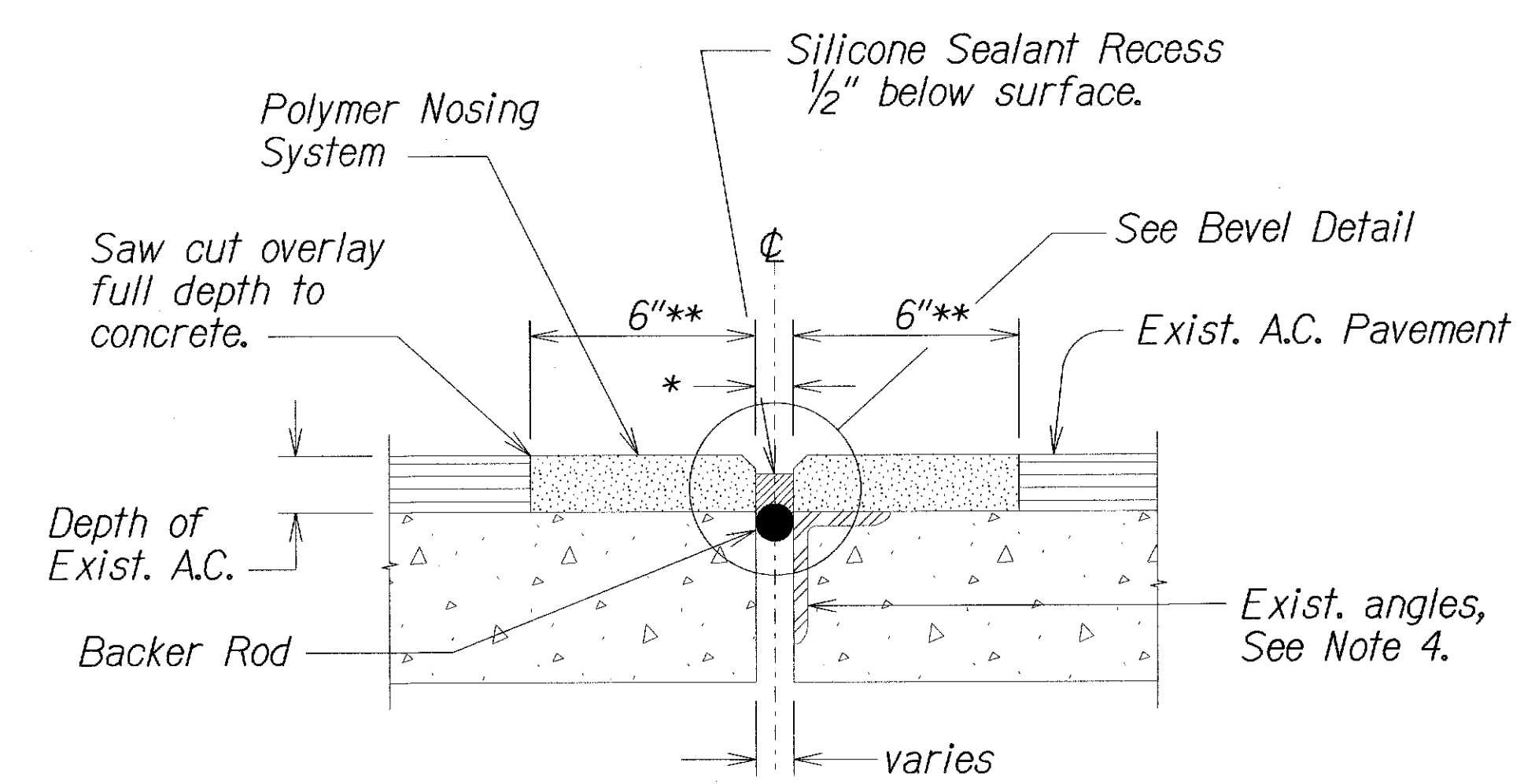
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTION
HAWAII BELT ROAD RESURFACING
Pepeekeo To Hakalau
Federal Aid Project No. NH-019-2(067)
Scale: None Date: March, 2014
SHEET No. 3 OF 3 SHEETS

SURVEY PLOTTED BY	DATE
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CHECKED BY	
IN CHARGE	

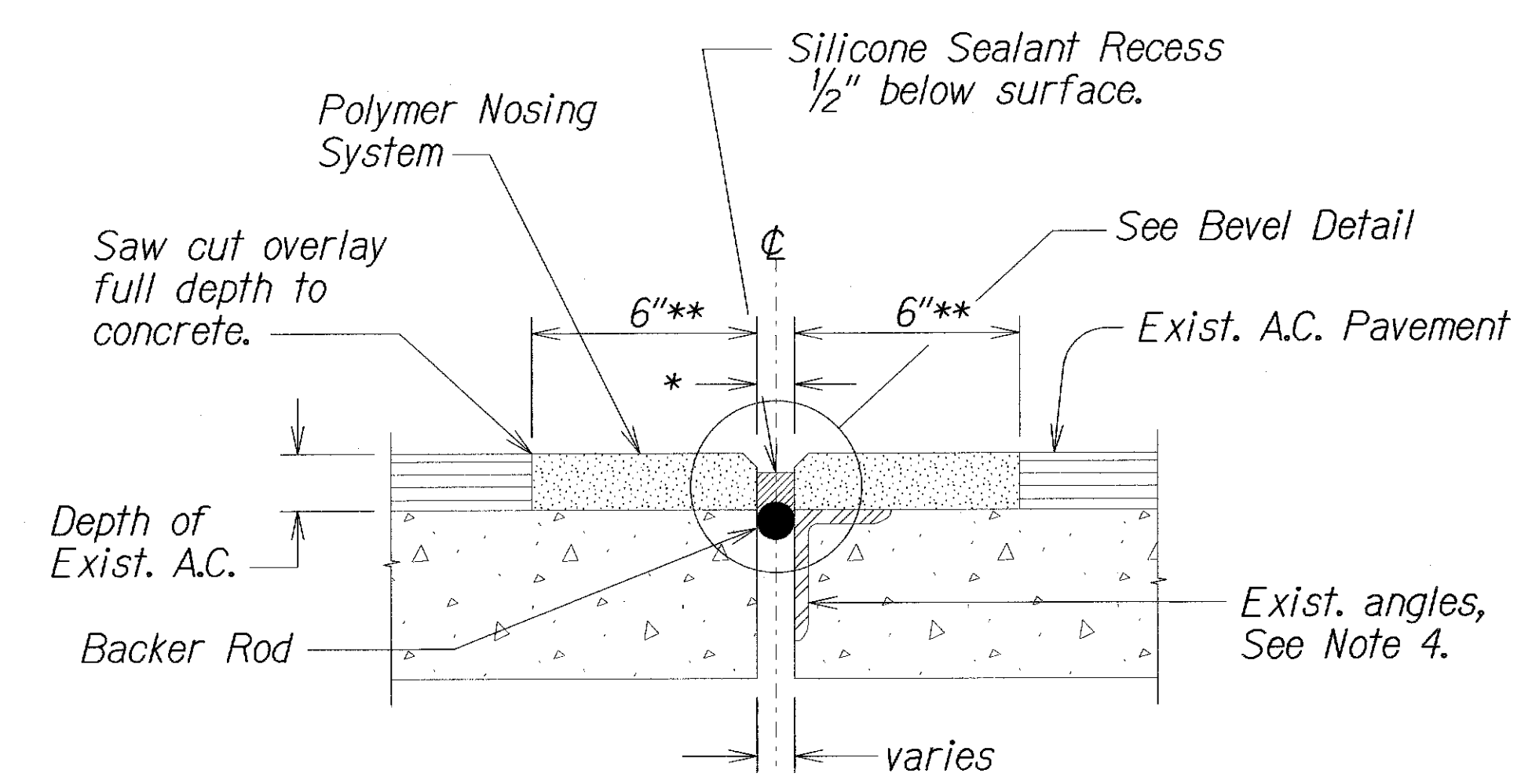
DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	8	42



EXPANSION JOINT DETAIL "A" AT BRIDGE DECK
Scale: 3"=1'

* - Width of joint opening. Opening in nosing shall match existing joint opening unless directed otherwise by Project Engineer.

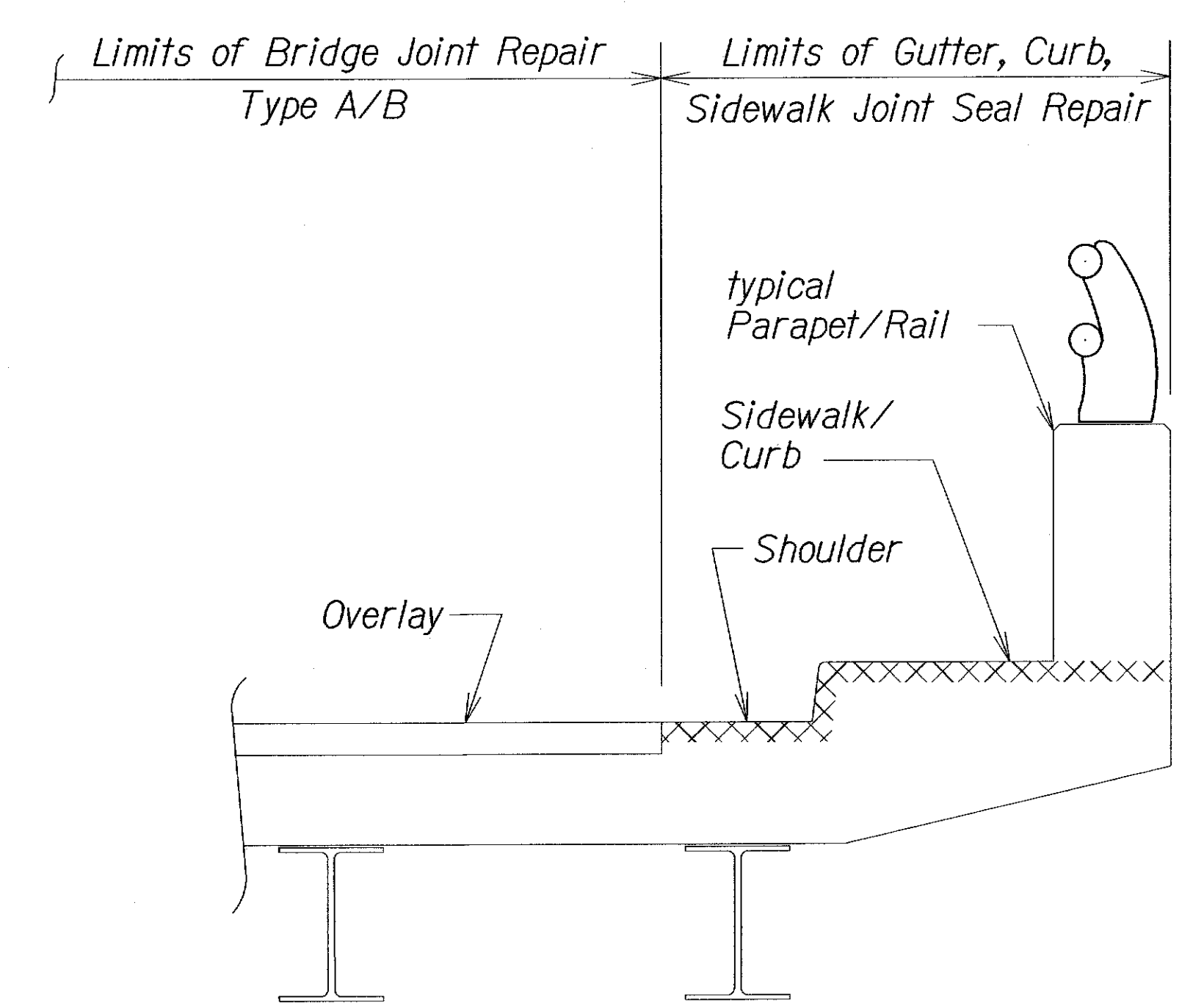
** - Minimum width of nosing shall be 6". If the overlay exceeds 3" in depth, the installer shall use a 2 to 1 width to depth ratio.



FIXED JOINT DETAIL "B" AT BRIDGE DECK
Scale: 3"=1'

Notes for Expansion Joint Details "A" and "B"

1. Information shown on the plans are based on "as-built" plans and may not be accurate. Measure actual joint gaps prior to ordering of material.
2. Remove asphalt concrete overlay and clean block-out per manufacturer's published procedures.
3. Remove any cracked or weakened concrete sections exposed after the asphalt concrete overlay has been removed using methods as approved by the Engineer.
4. If existing angle irons are present on the deck surface, inspect angle irons for any defects, especially for soundness of underlying concrete. If accepted by the Engineer as sound, the angle irons may remain in place. Otherwise, remove angle irons and any underlying damaged concrete using methods as approved by the Engineer.
5. Use caution to avoid cutting any reinforcing steel. If any reinforcing steel is accidentally cut, immediately report the incident to the Engineer.
6. Repair all chipped, spalled, or damaged concrete in joint areas using methods as approved by the Engineer.
7. Nosing and Silicone Sealant per manufacturers recommendations.
8. A representative of the manufacturer shall be present at the start of work to demonstrate proper cleaning and installation techniques.
9. Clean up and remove all debris accumulated on bridge members located directly below the joints to the satisfaction of the Engineer.
10. All work necessary for the complete installation of each joint system, including but not limited to ordering of materials, preparation of joints, removal of angle irons, repair of concrete in joint areas, installation of nosing system, installation of silicone sealant, installation of backer rod, clean up, disposal of debris, and furnishing of all materials, equipment, and labor (including expenses for manufacturer's representative); shall be considered incidental to the joint repair pay items in the proposal for each respective bridge.

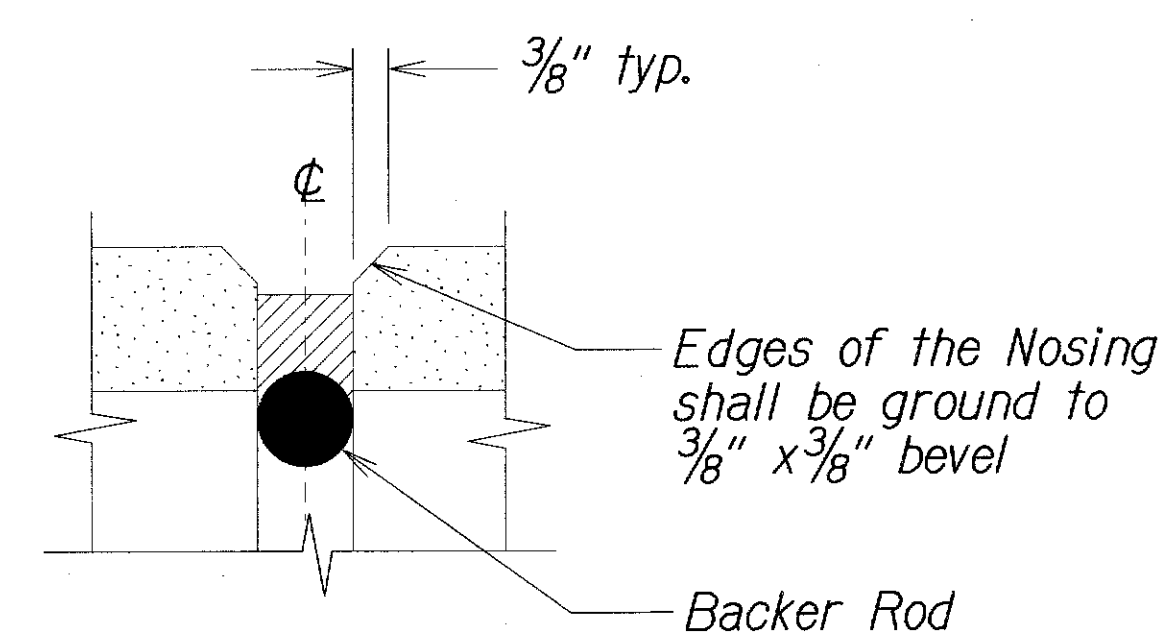


Notes

1. Detail is for both sides of Bridge.
2. Prepare gutter, curb and sidewalk area per sealant manufacturer's recommendation. Install sealant according to manufacturer's recommendation.
3. Clean up and remove all debris accumulated on bridge members located directly below gutter, curb, and sidewalk joints to the satisfaction of the Engineer.
4. Preparation, installation, clean up and debris removal called for above, including furnishing all materials, equipment, and labor; shall be considered incidental to Gutter, Curb, Sidewalk Joint Seal Repair pay items for each respective bridge.

GUTTER, CURB, SIDEWALK
JOINT SEAL REPAIR DETAIL

Scale: N.T.S.

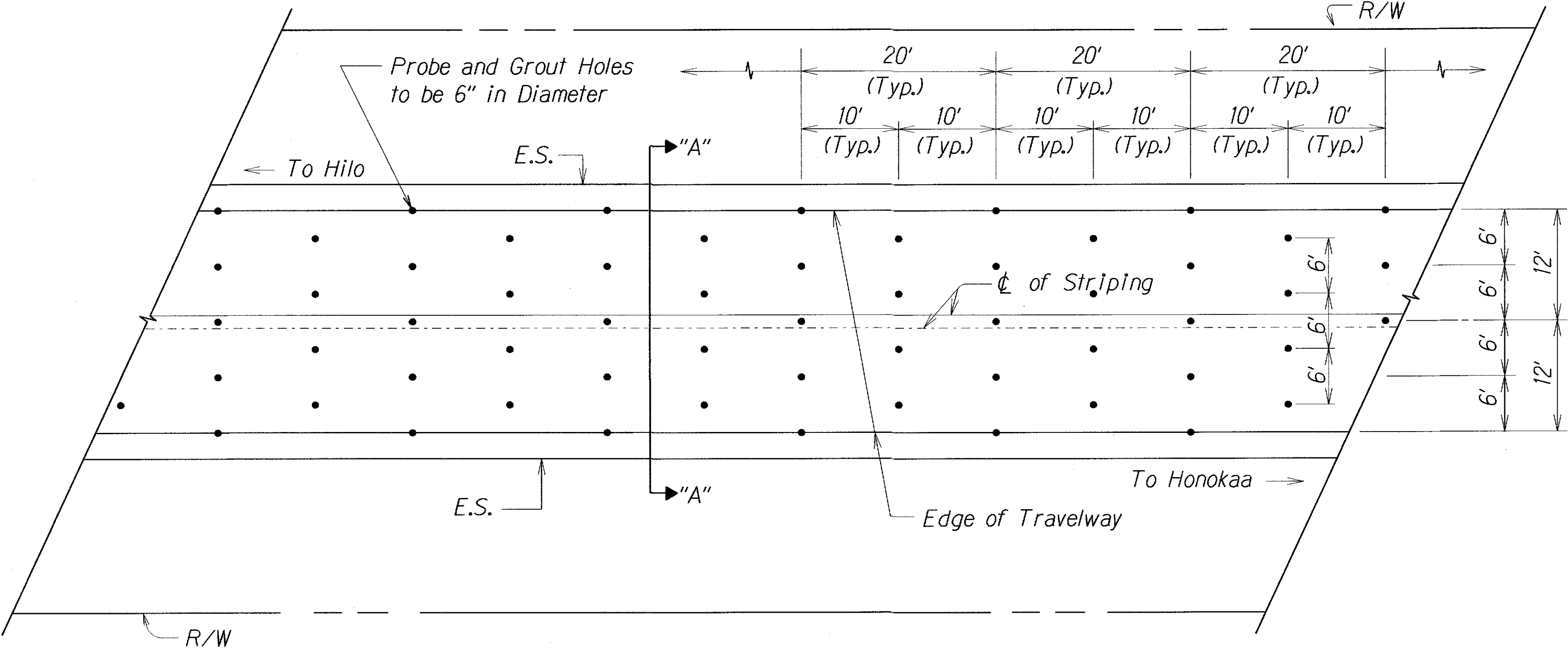


BEVEL DETAIL
Scale: 6"=1'

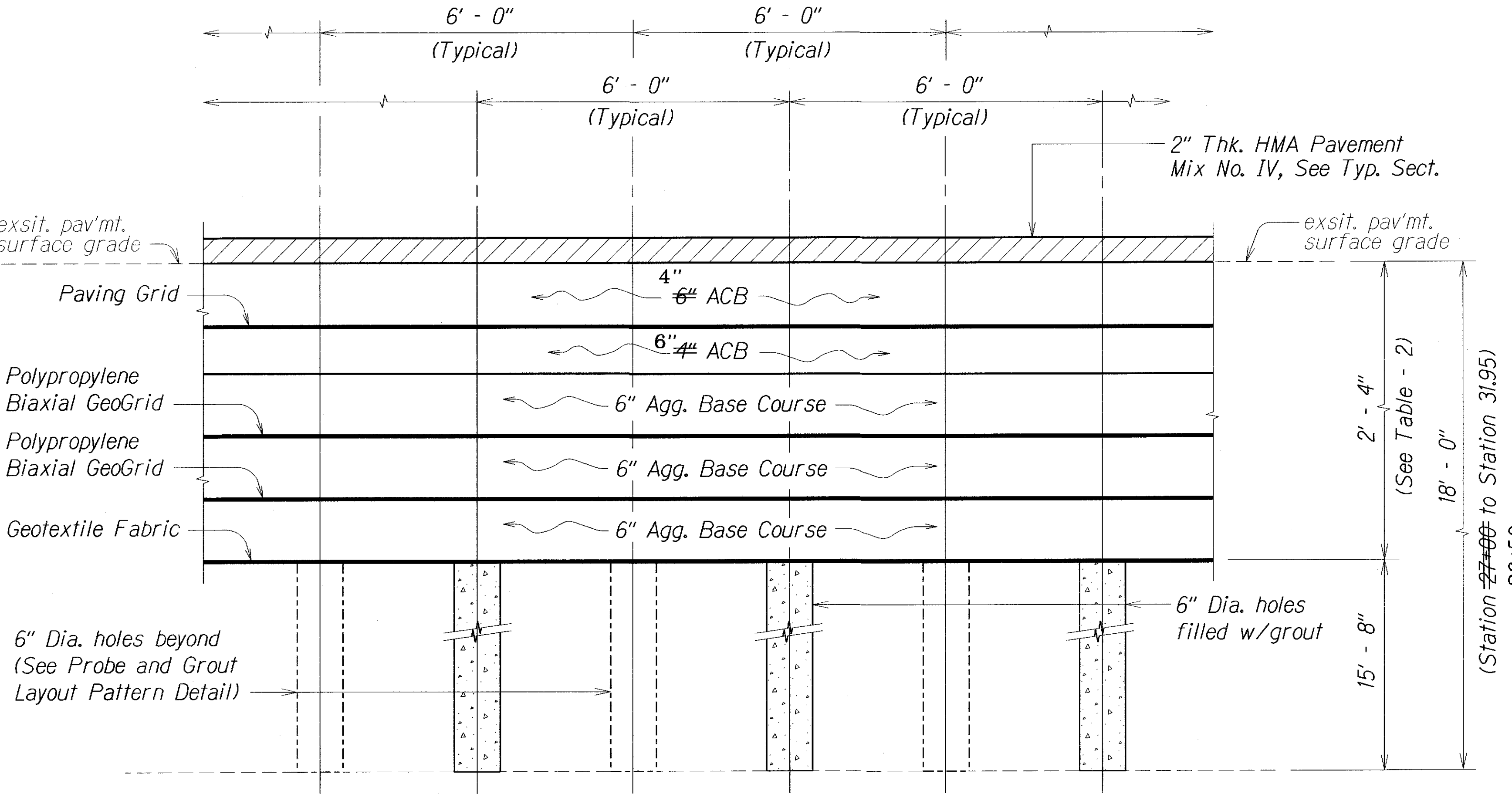
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	CHECKED BY	
DATE		

4/30/14	Added New Bridge Joint Detail Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
BRIDGE JOINT DETAIL	
HAWAII BELT ROAD RESURFACING	
Pepeekeo to Hakalau	
Federal Aid Project No. NH-019-2(067)	
Scale: None	Date: March, 2014
SHEET No. 1 OF 1 SHEETS	

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	9	41

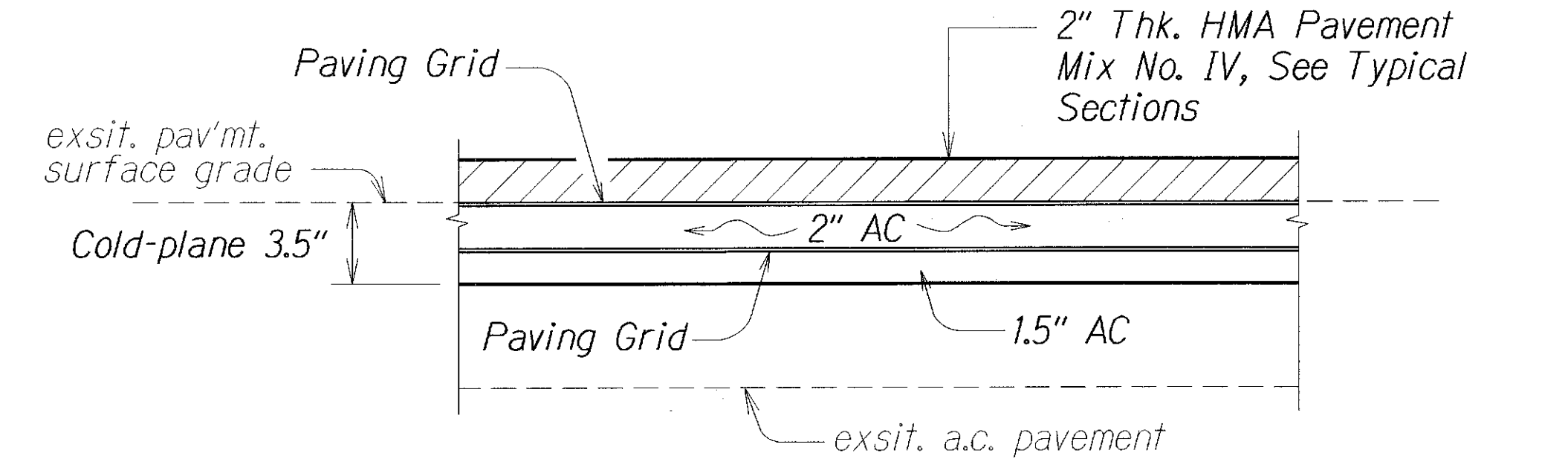


PROBE AND GROUT LAYOUT PATTERN DETAIL - SEE TABLE 2
Not to Scale



SECTION "A - A"
Not To Scale



TABLE - 1 RECONSTRUCTION AT TRUCK CLIMBING LANES (Sta. 59+00 to Sta. 74+00, Sht. 15)
Cold-plane 3.5" deep
Place 1.5" AC
Install GlasGrid 8512TF - Paving Grid
Place 2.0" AC
Install GlasGrid 8512TF - Paving Grid
Place and compact New 2" AC overlay above the currant pavement surface grade



RECONSTRUCTION PAVEMENT DETAIL- SEE TABLE 1
Not To Scale

TABLE - 2 RECONSTRUCTION AT HAKALAU LANES (Sta. 31+95 to Sta. 27+95, Sht. 21)
The GRS structure should consist of the following, Excavate 2' - 4"
Place Geotextile Fabric (Mirafi RS5800i or equivalent in strength and permittivity)
Place and compact 6" Aggregate Base Course
Place Polypropylene Biaxial Geogrid
Place and compact 6" Aggregate Base Course
Place Polypropylene Biaxial Geogrid
Place and compact 6" Aggregate Base Course
Place and compact 4" ACB
Install GlasGrid 8512TF - Paving Grid
Place and compact 6" ACB
Place and compact 2" AC overlay above the currant pavement surface grade

Note:
Traffic control requirements to include barriers. See Special Provision Section 414.03.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROBE AND GROUT DETAILS

HAWAII BELT ROAD RESURFACING
Pepeekeo To Hakalau
Federal Aid Project No. NH-019-2(067)

Scale: None Date: March, 2014

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY	DATE
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CHECKED BY	
QUANTITIES BY	
ORIGINAL PLAN	
NOTE BOOK	
MANUSCRIPT	