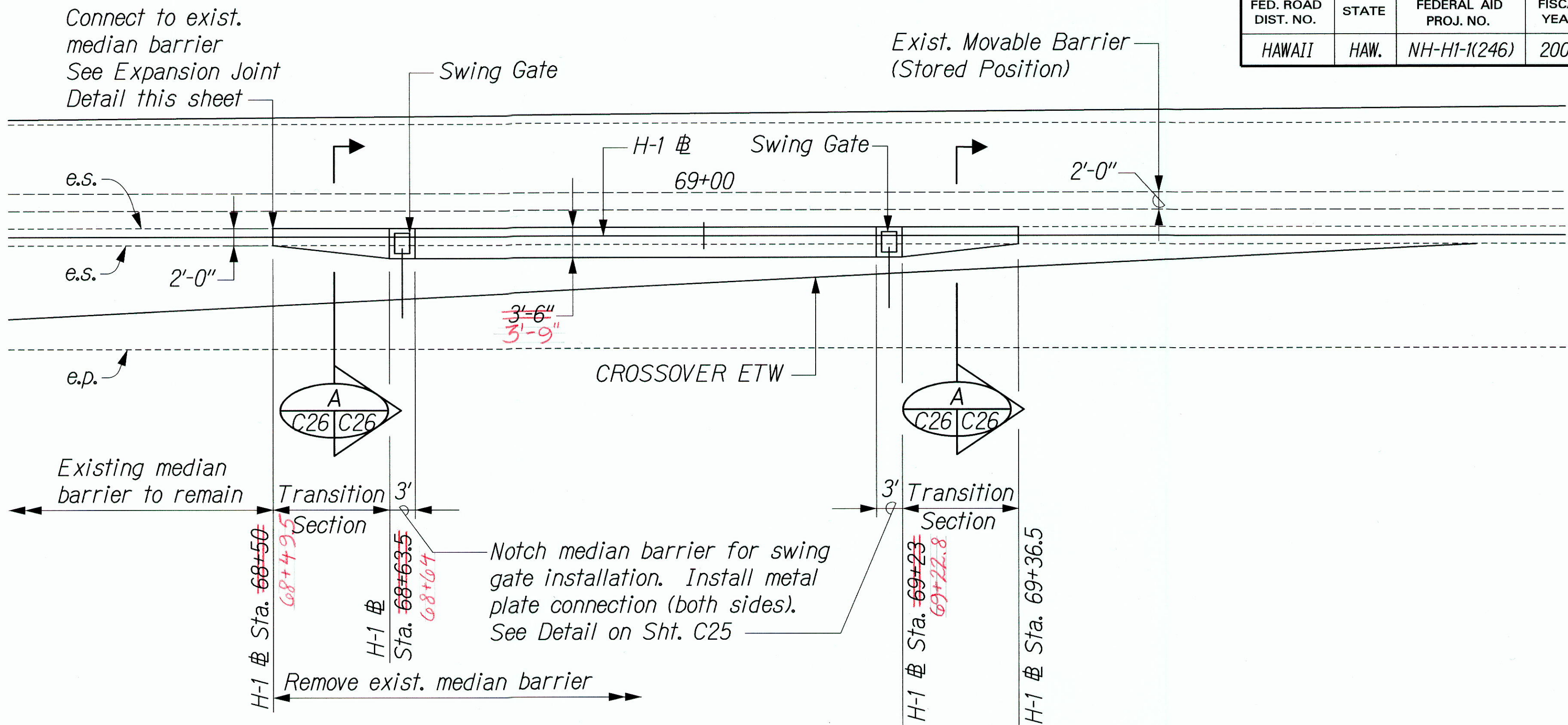


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-K(246)	2004	42	105

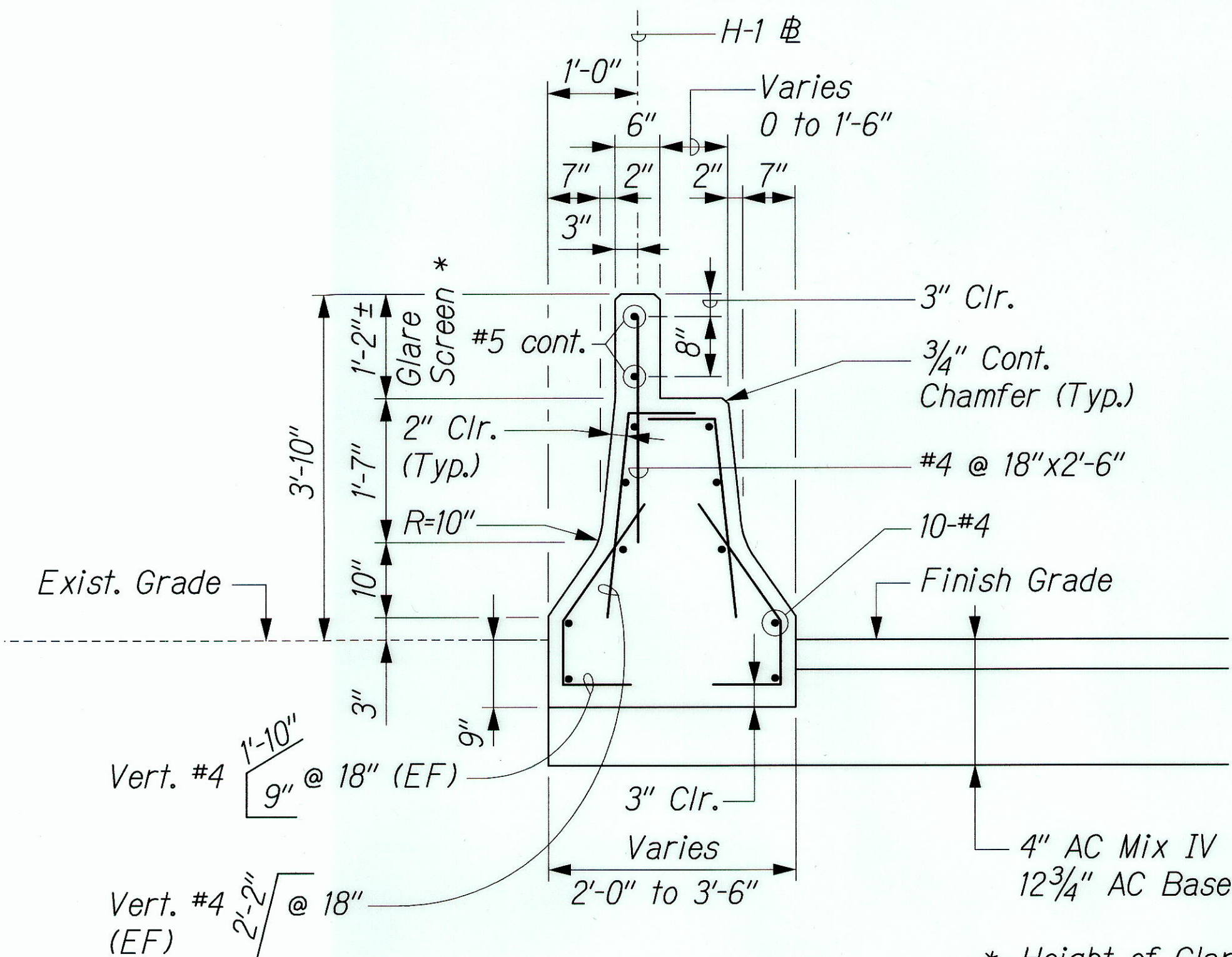
NOTES:

- For spacing and details of expansion and control joints, see Standard Plan TE-63.
- The holes for dowels shall be drilled perpendicular to the existing concrete surfaces. When the drill contacts any existing rebar, the hole shall be filled with epoxy grout and a replacement shall be drilled so that the spacing of dowels will be maintained. Contractor shall avoid cutting existing rebar.
- Control joints shall be placed between expansion joints at thirty feet (30 ft.) maximum.
- Payment for Expansion Joints shall be considered incidental to the various items of the contract.



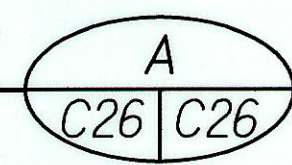
MEDIAN BARRIER TRANSITION FOR SWING GATES

Scale: 1" = 10'

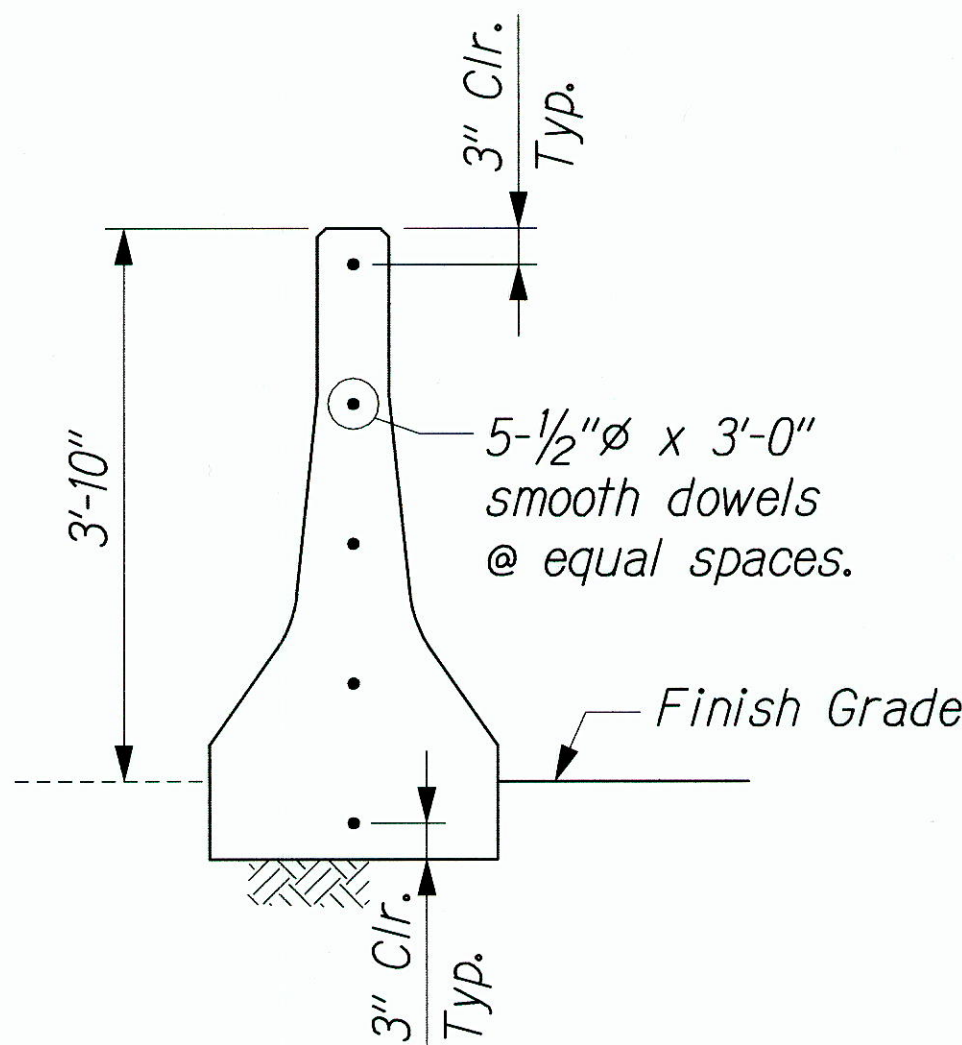


SECTION

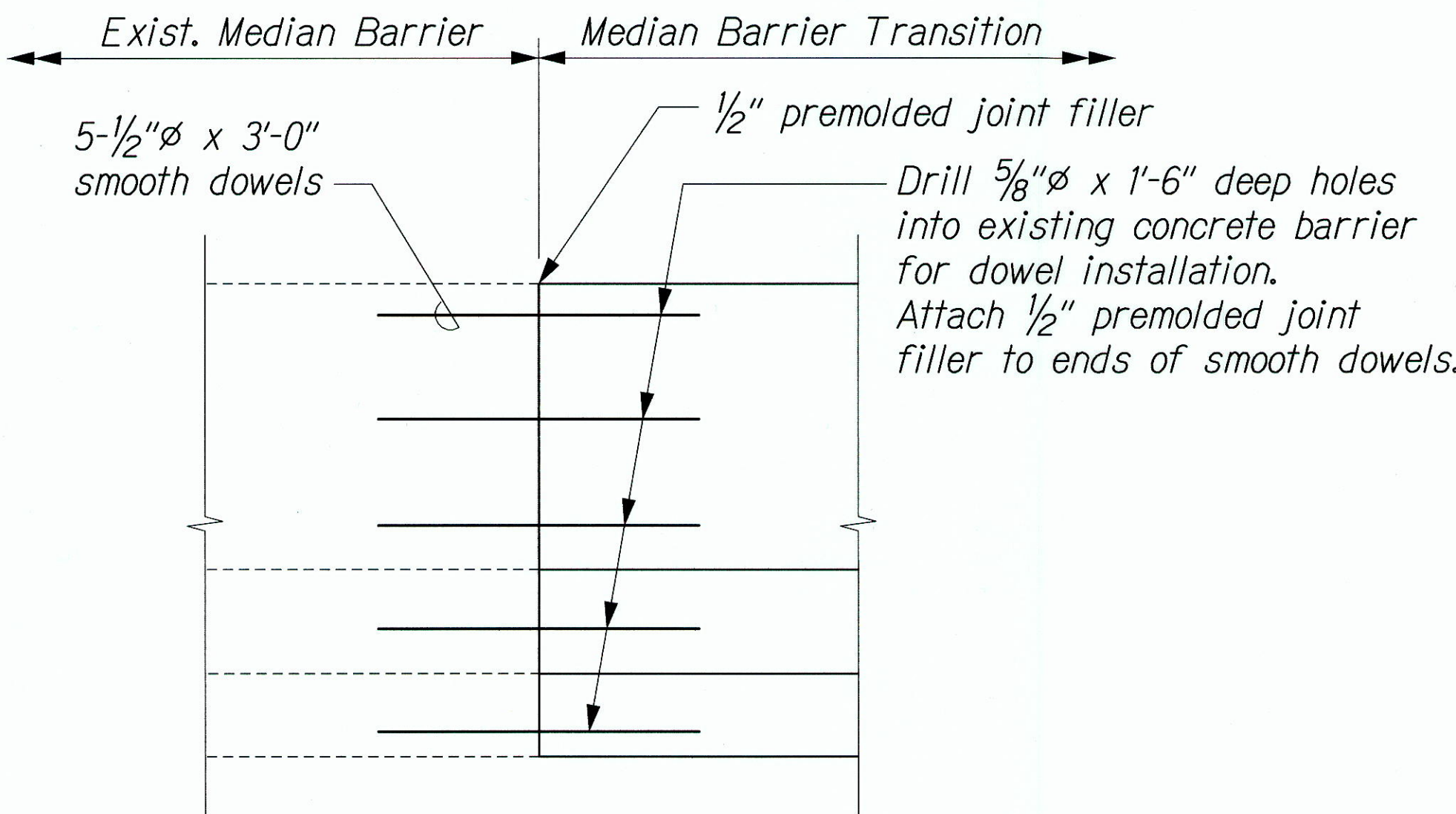
Scale: 3/4" = 1'-0"



* Height of Glare Screen to match existing



TYPICAL SECTION



ELEVATION

EXPANSION JOINT DETAIL

Scale: 3/4" = 1'-0"

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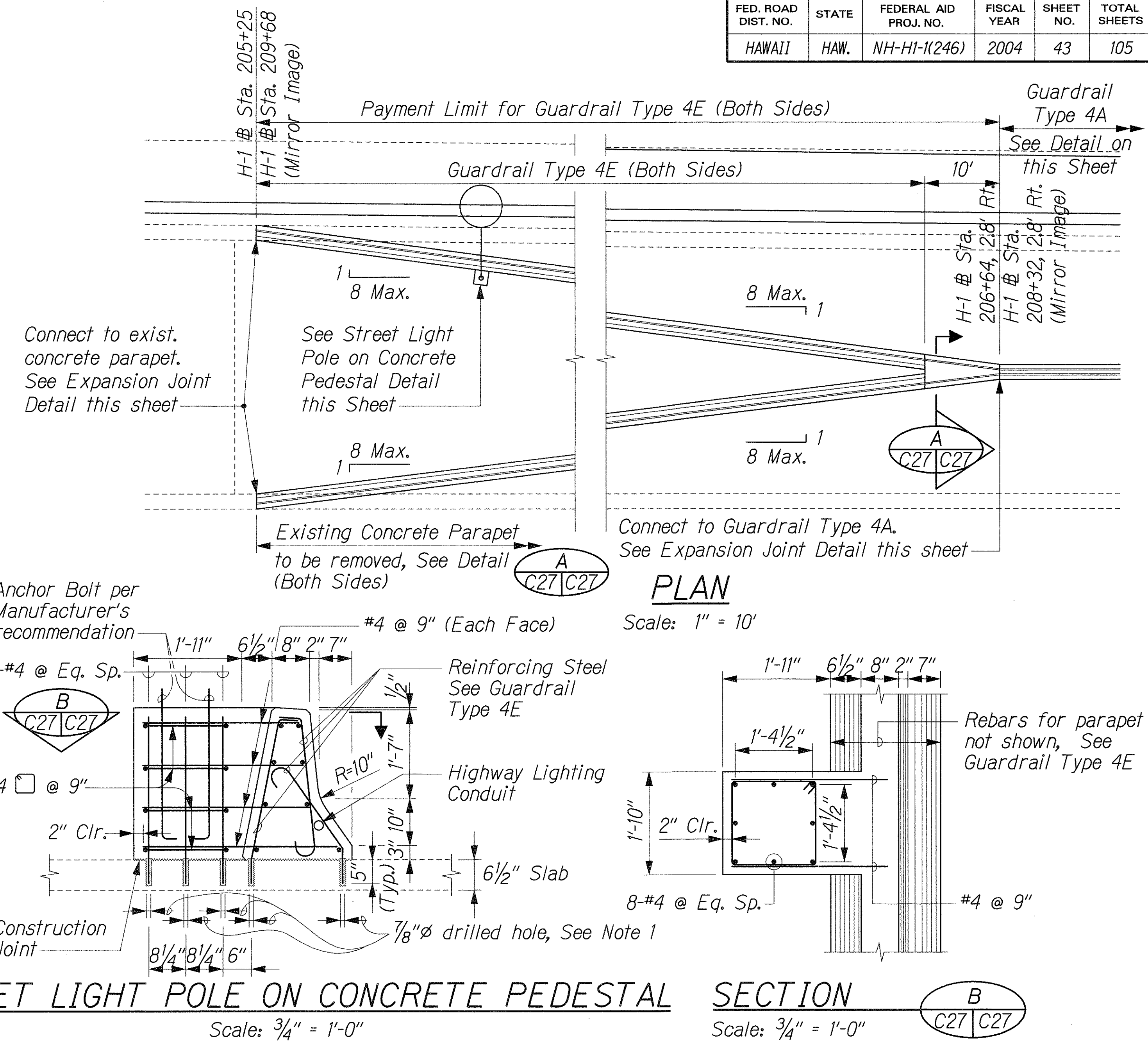
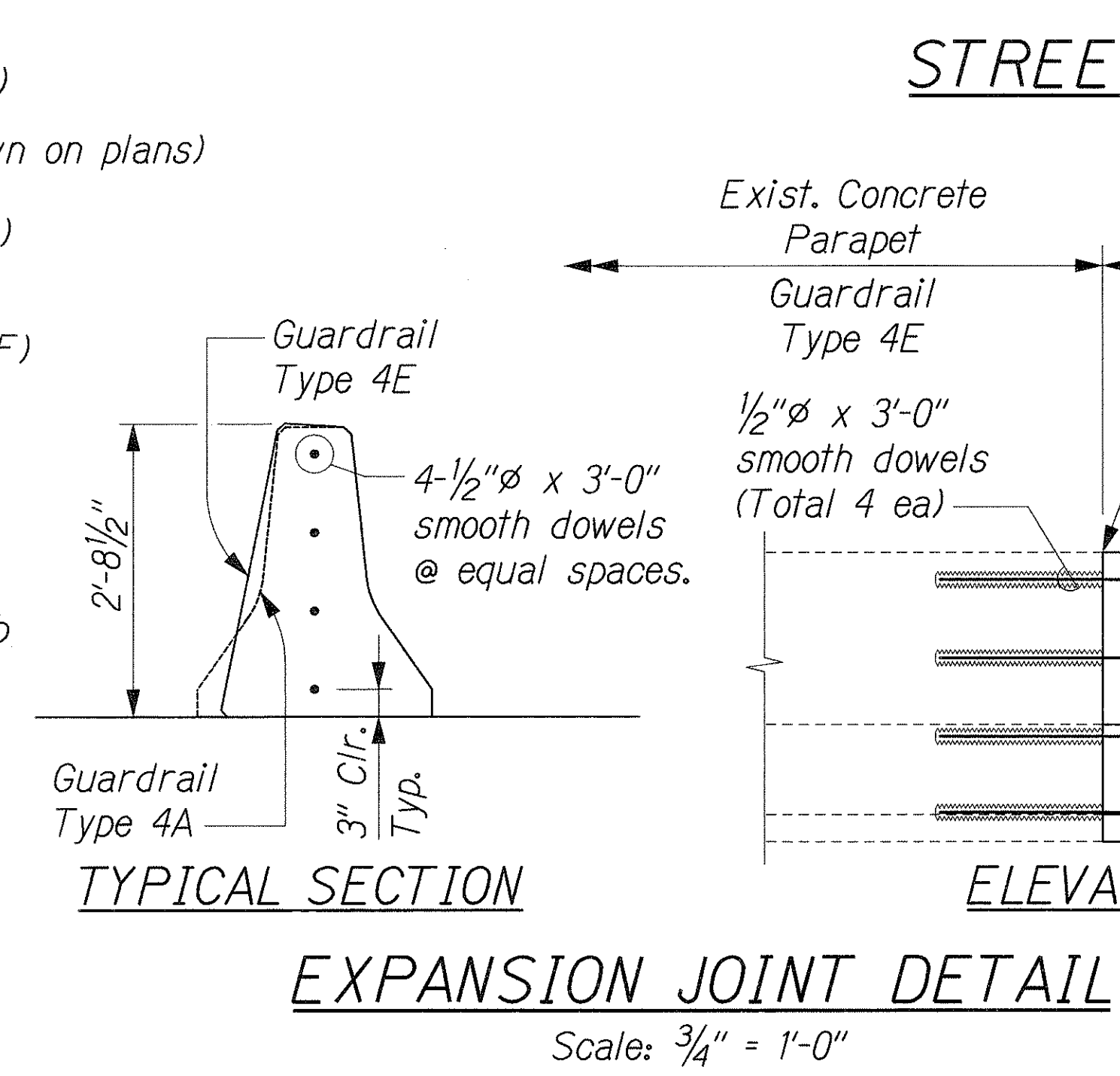
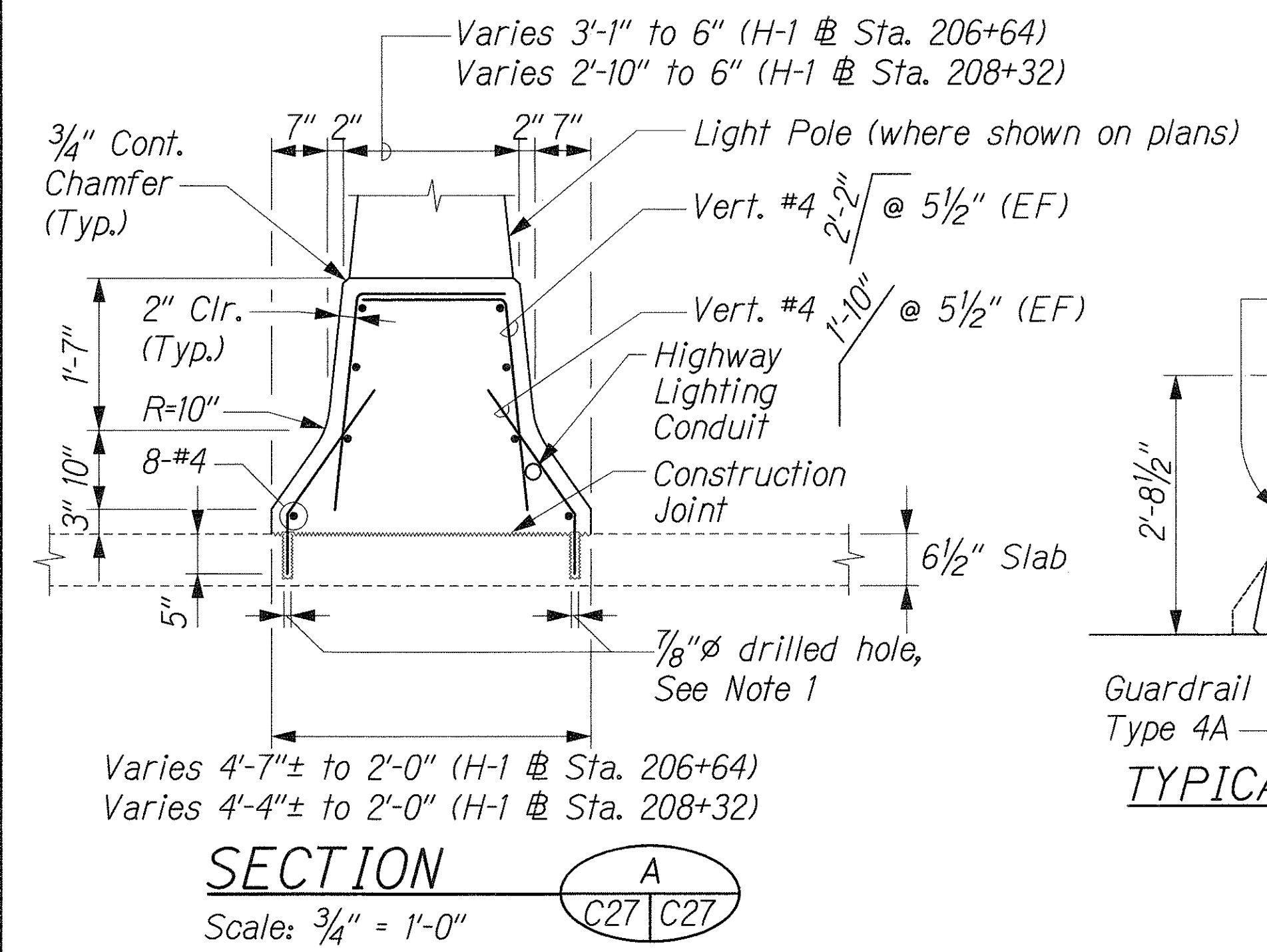
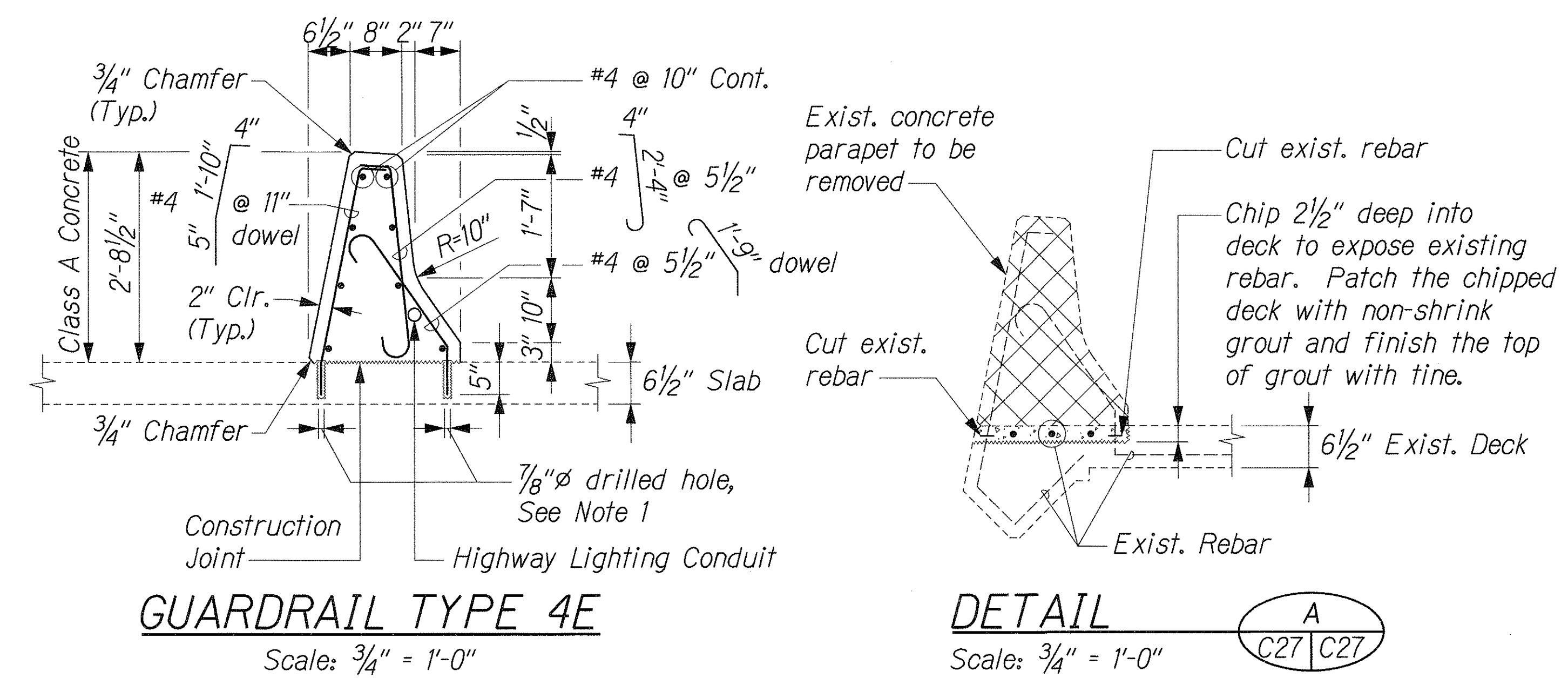
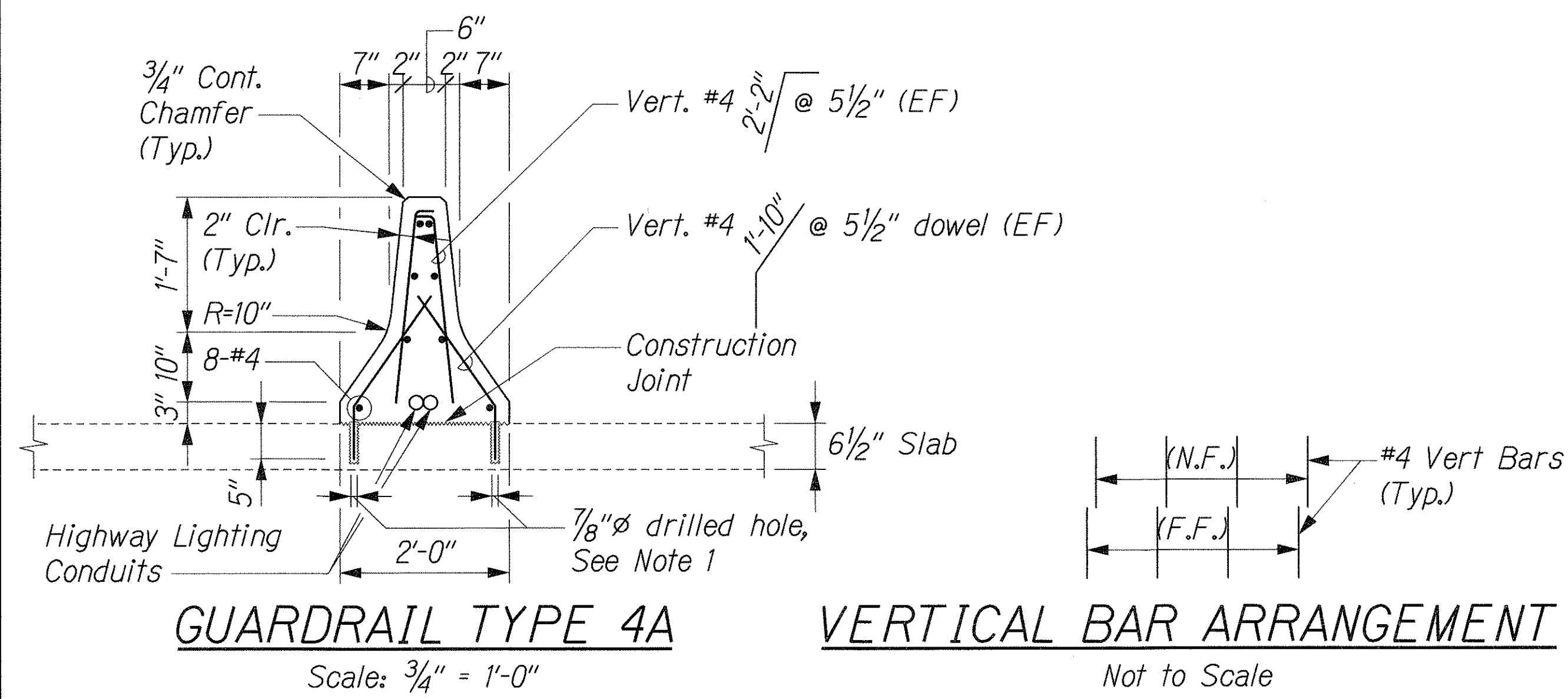
Perry M. Small

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-1 ZIPPER LANE EXTENSION
RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE
FEDERAL AID PROJECT NO. NH-H1-K(246)
Scale: As Shown Date: Mar. 2, 2004

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-K(246)	2004	43	105



NOTE:

1. Drill 7/8" ϕ x 5" deep holes @ 6" oc into existing concrete. Drill holes perpendicular to the existing concrete surface and avoid cutting the existing rebar. A rebar detecting device may be used prior to drilling. After drilling, clean holes, fill with epoxy grout and insert the dowels.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

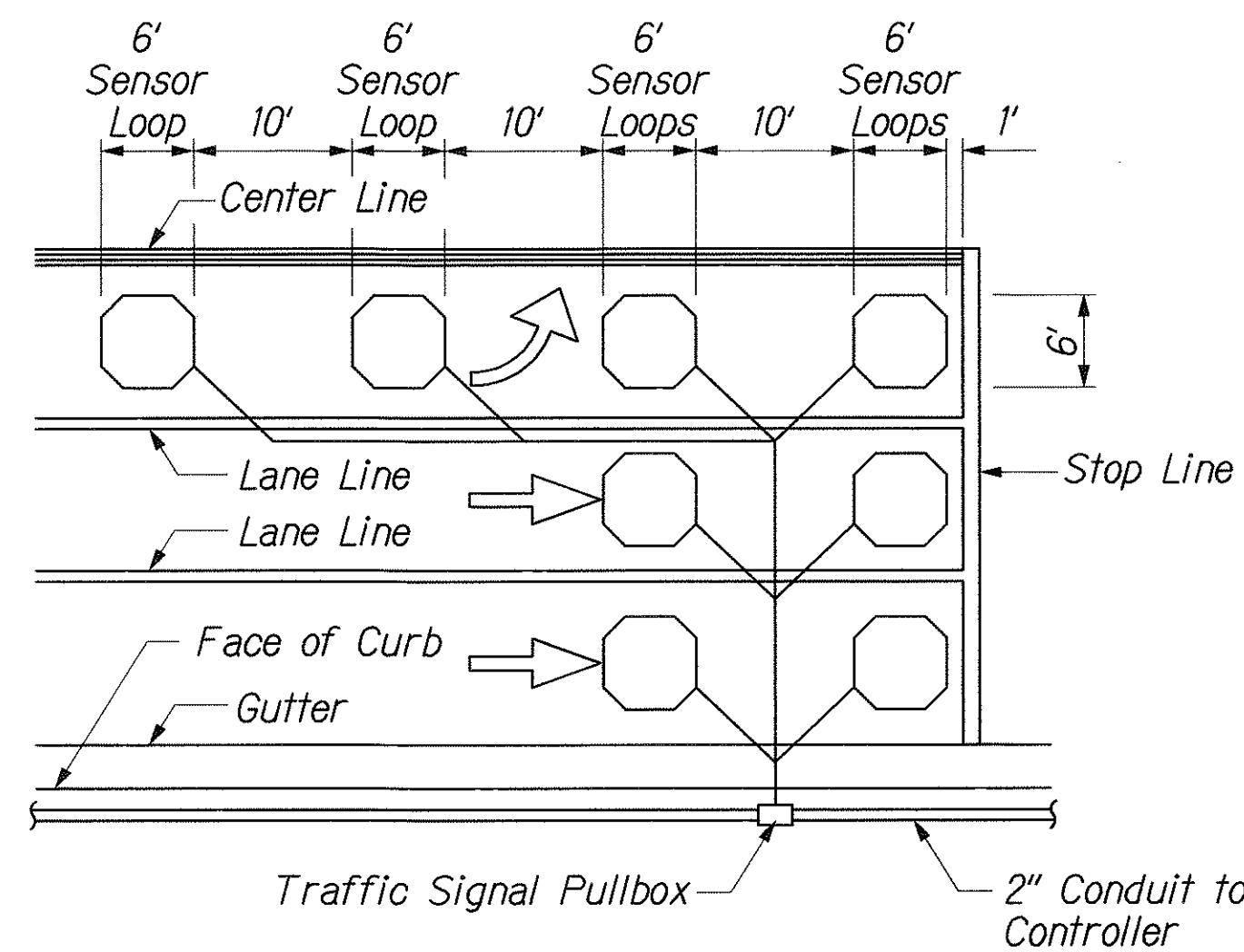
MISCELLANEOUS DETAILS
EMERGENCY CROSSOVER

INTERSTATE ROUTE H-1 ZIPPER LANE EXTENSION
RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE
FEDERAL AID PROJECT NO. NH-H1-K(246)

Scale: As Shown Date: Mar. 2, 2004

SHEET No. C27 OF 29 SHEETS

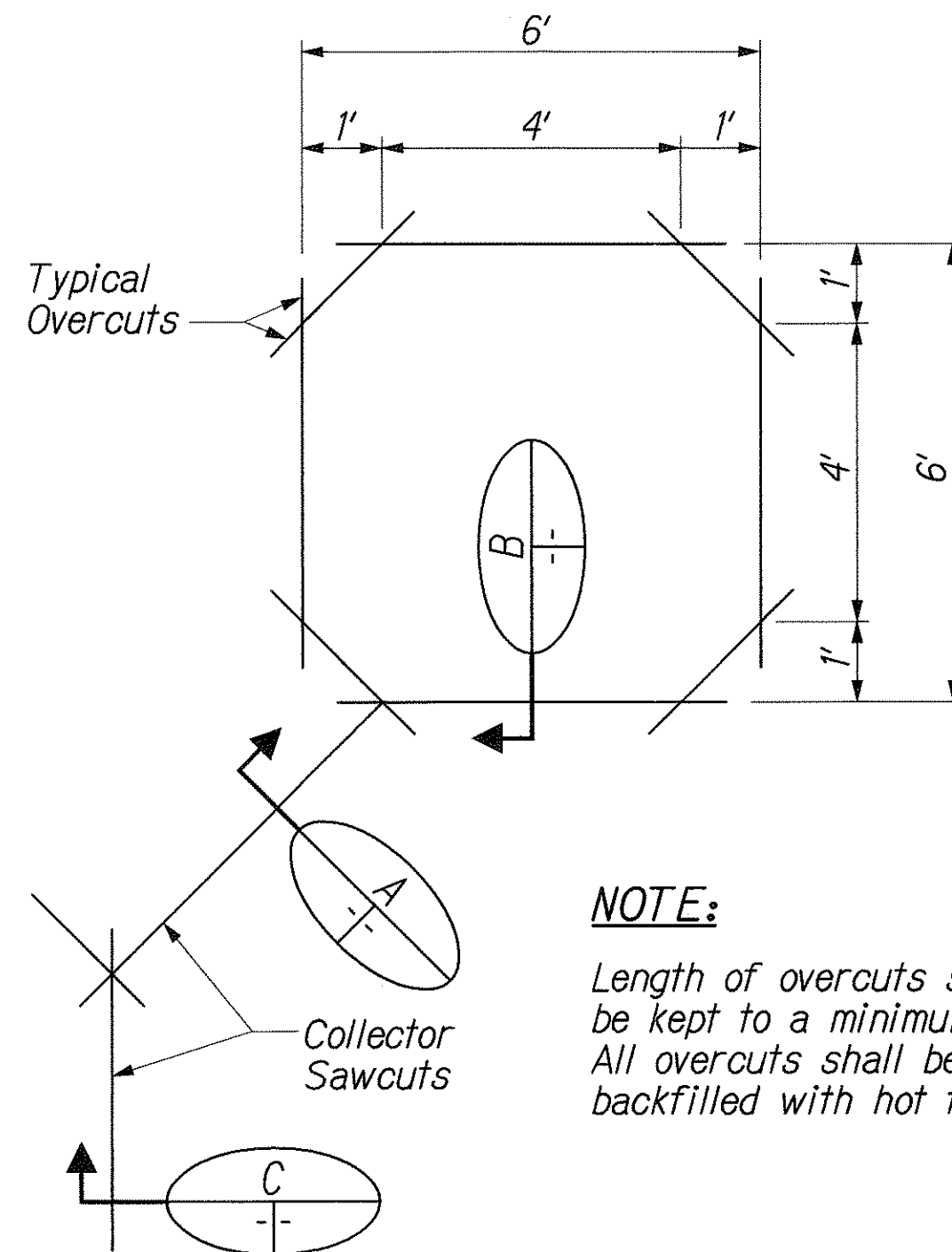
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(246)	2004	43A	105



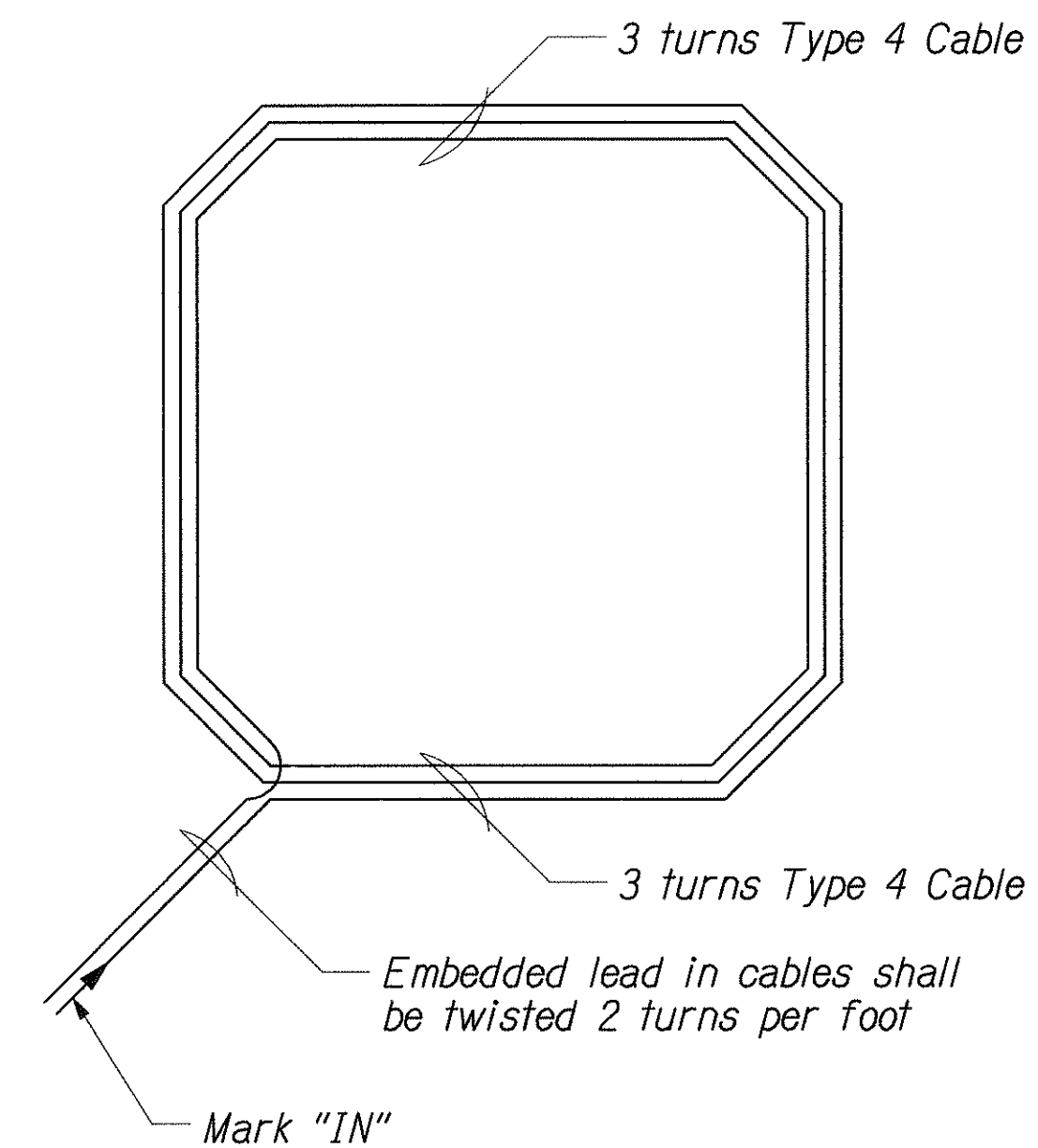
NOTES:

1. Center sensor loops in lanes.
2. Collector Cables shall be twisted 2 turns per foot.
3. Number of loops and locations vary. See project plans.
4. Number and locations of Collector Sawcuts may be varied in the field.

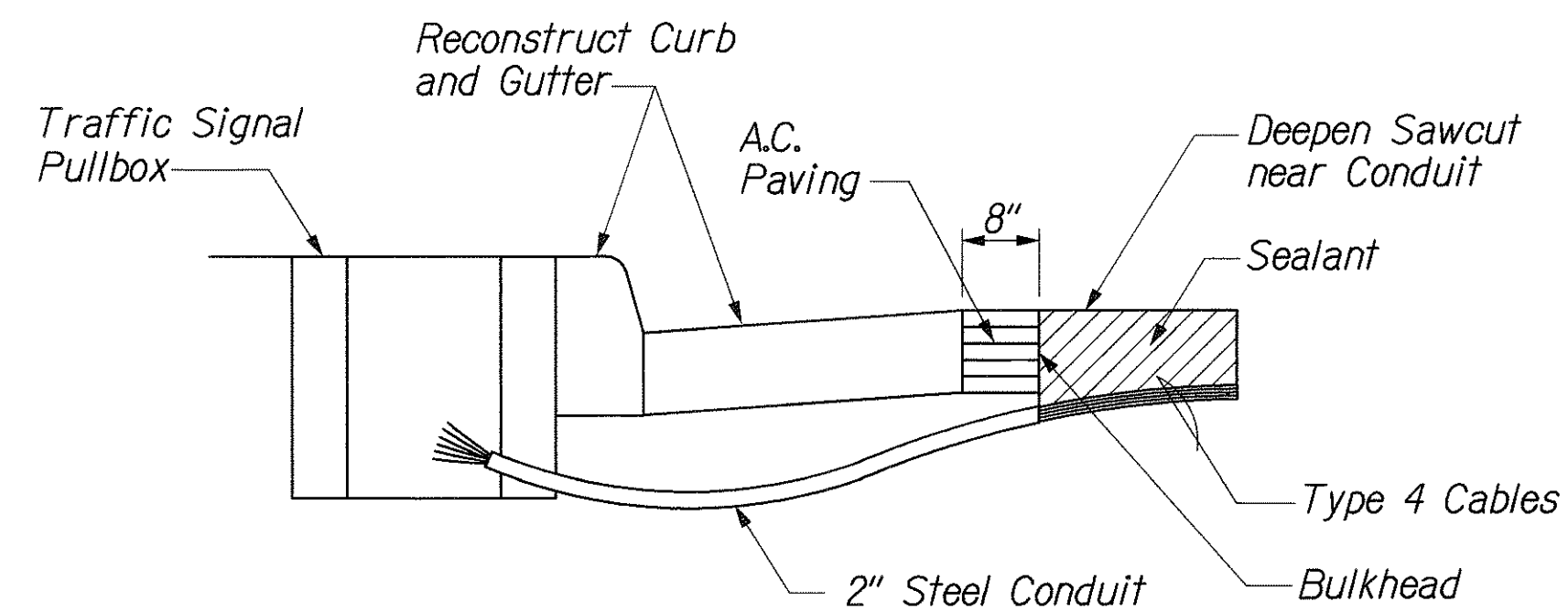
TYPICAL SENSOR LOOP LAYOUT



TYPICAL SENSOR LOOP SAWCUT DETAIL



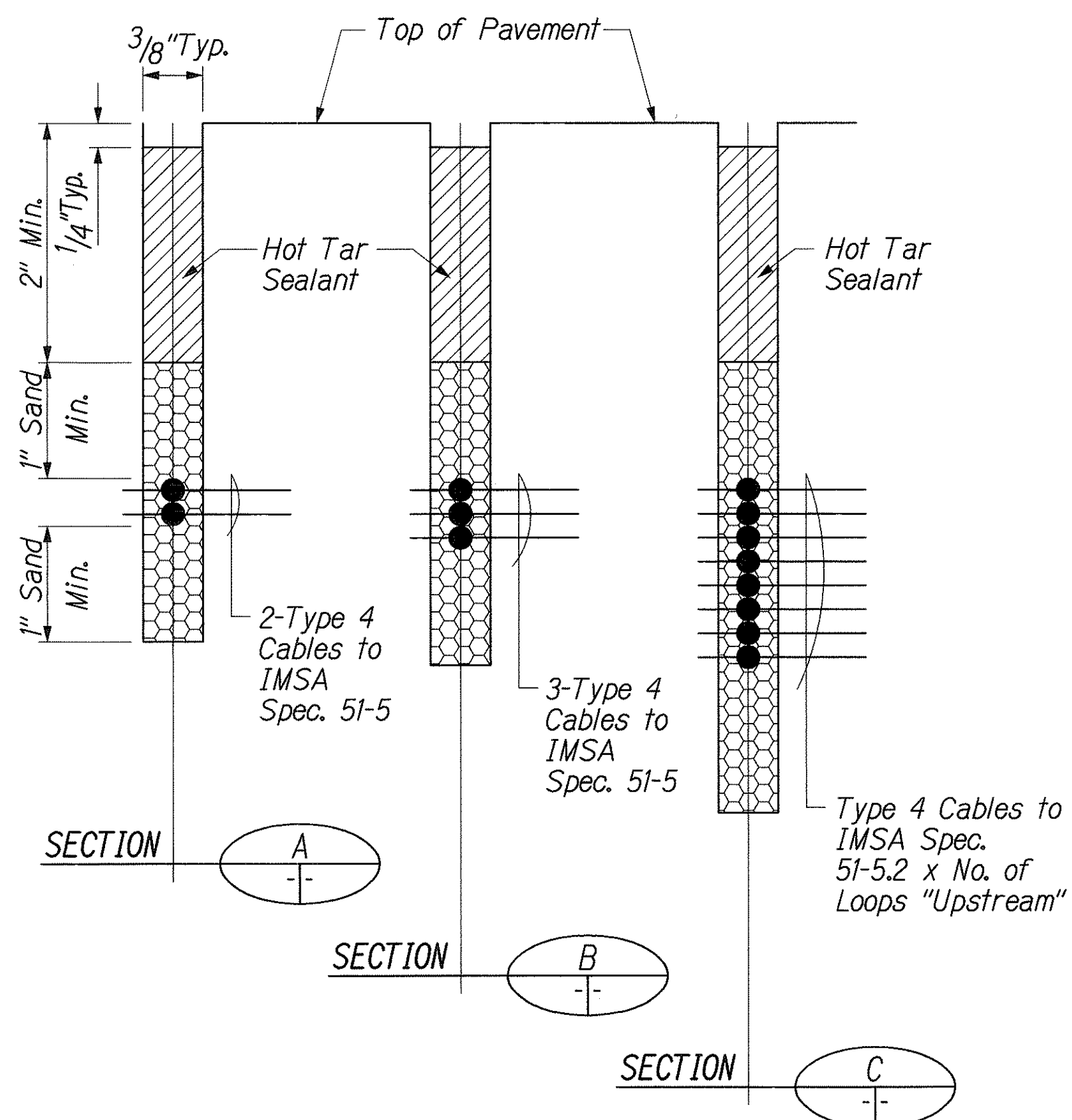
TYPICAL SENSOR LOOP WIRING DIAGRAM



NOTES ON CONSTRUCTION AT END OF SAWCUT:

1. Seal roadway end of conduit after installation of conductors.
2. Install bulkhead across conduit trench.
3. Place hot tar in sawcut.
4. Backfill over conduit with New A.C.
5. Reconstruct curb and gutter as required

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY



TYPICAL SECTION THROUGH SENSOR LOOP

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MISCELLANEOUS DETAILS INTERSTATE ROUTE H-1 ZIPPER LANE EXTENSION RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE FEDERAL AID PROJECT NO. NH-HI-1(246) Scale: NONE Date: Mar. 2, 2004	
	SHEET No. C27A OF 29 SHEETS	
	43A	

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

1/4 ZIPPER EXTENSION/ROAD/PCDET-05.dgn