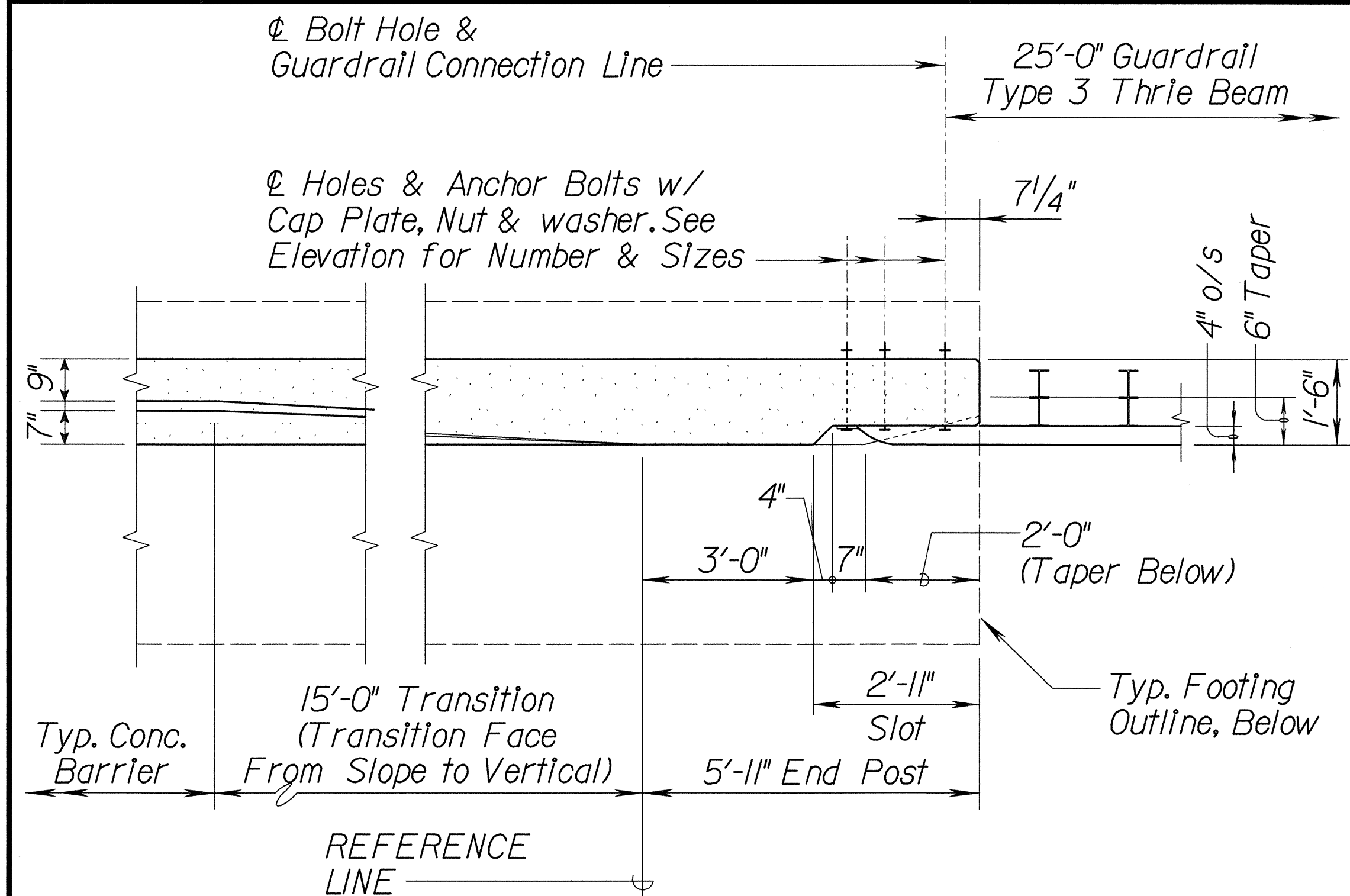
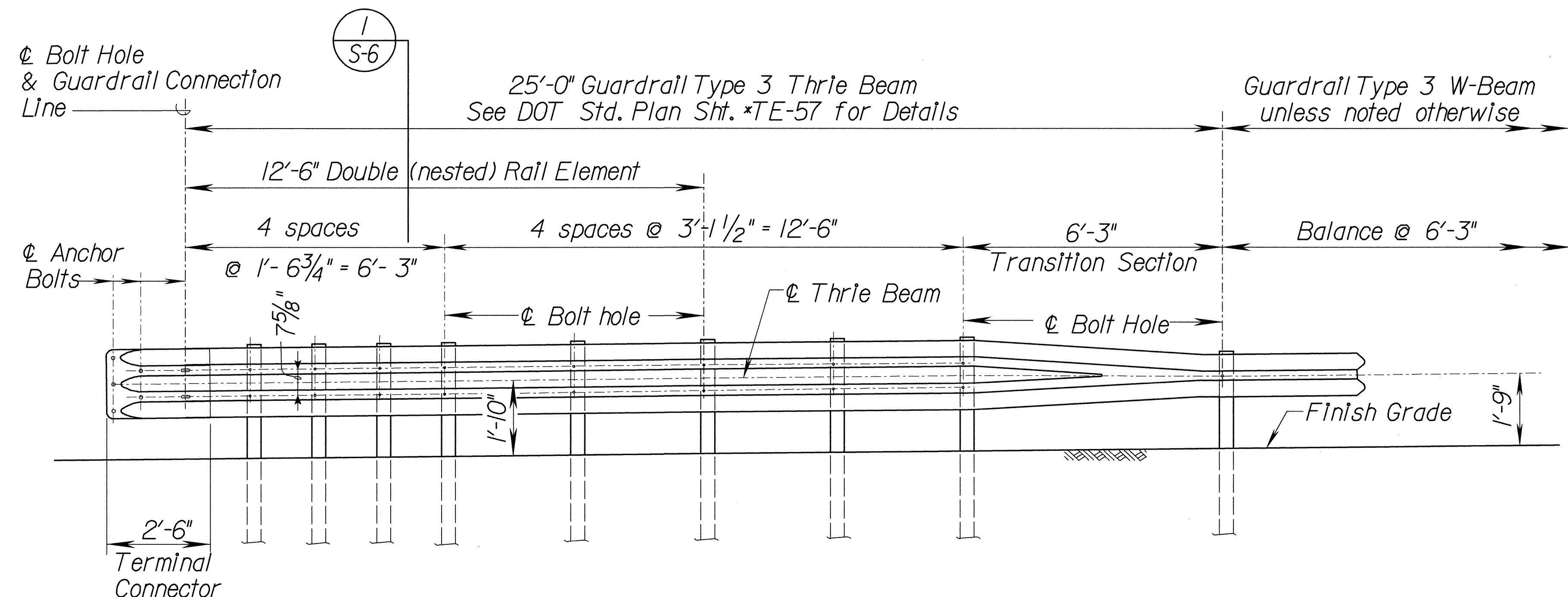
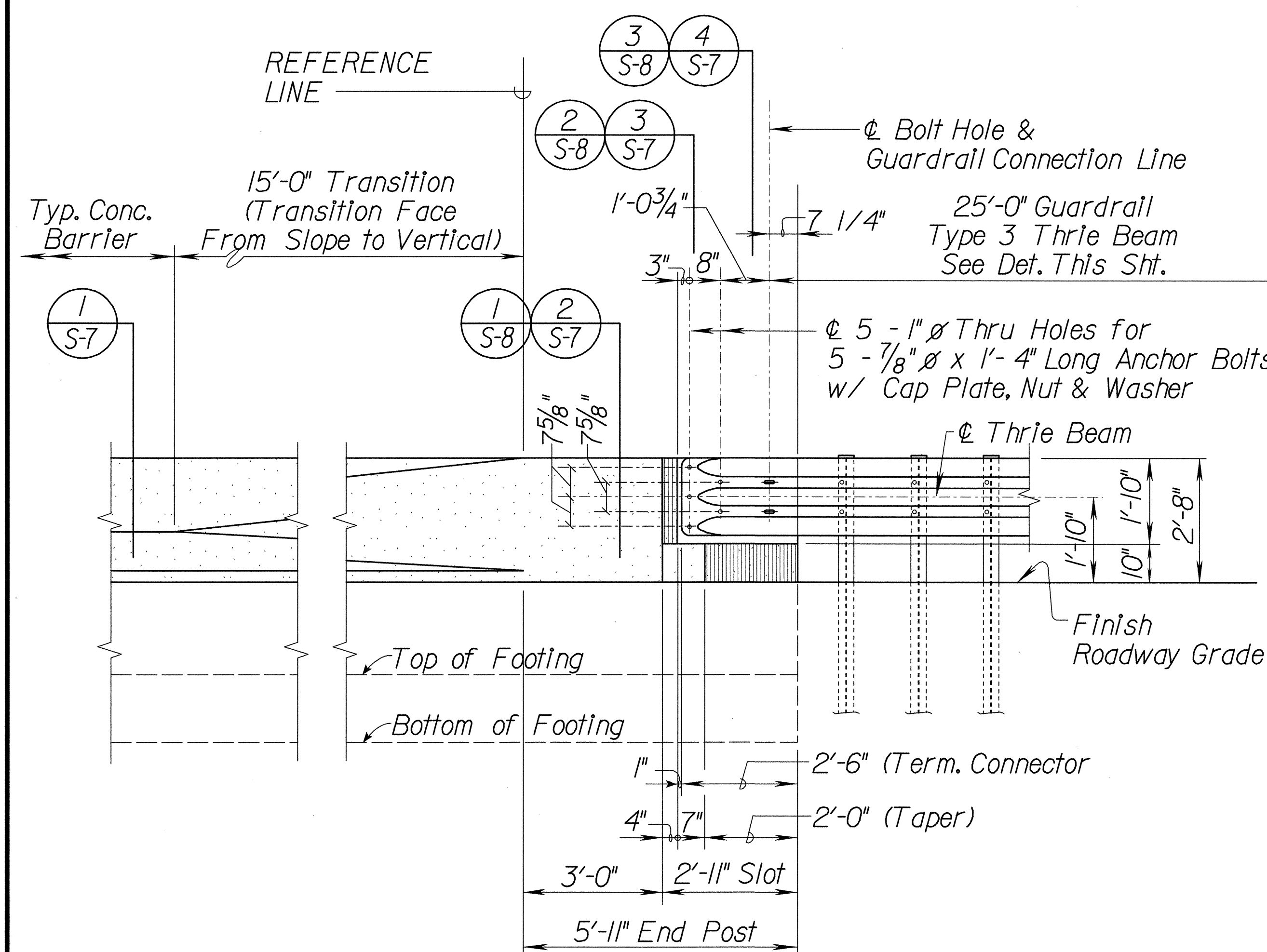




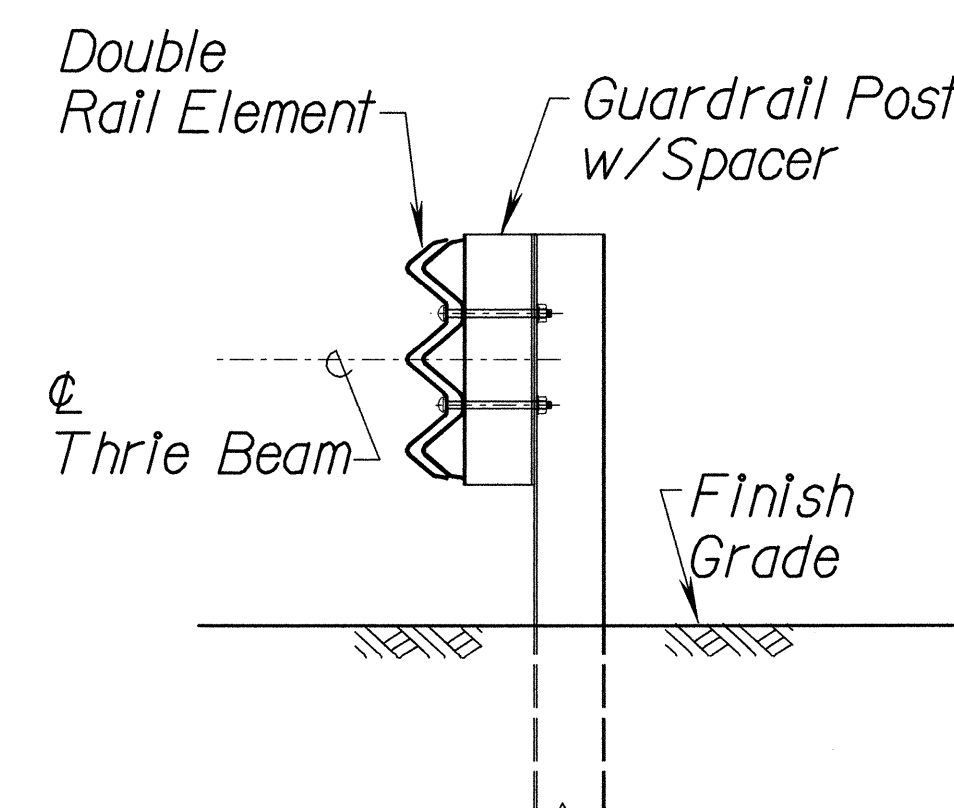
PLAN - CONCRETE BARRIER, END POST & GUARDRAIL
Scale: 1/2" = 1'-0"



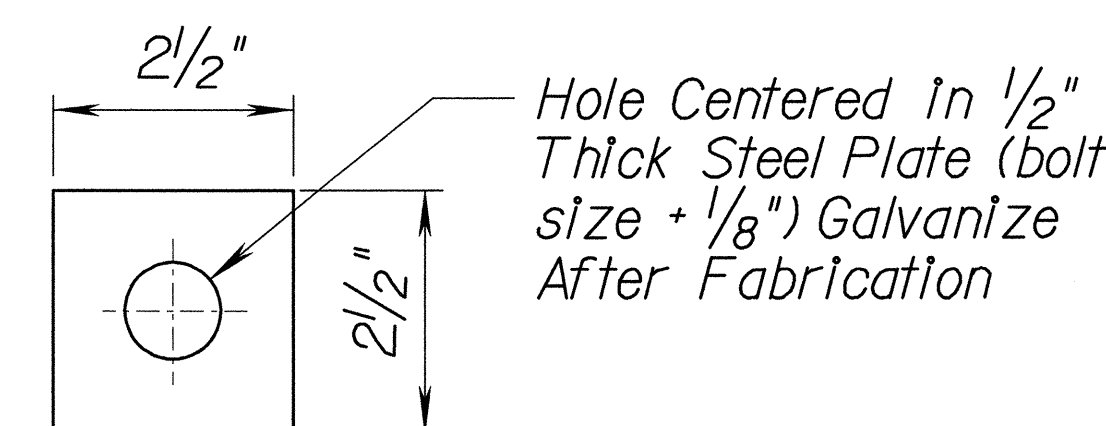
TYPICAL TYPE 3 THRIE BEAM METAL GUARDRAIL AT END POSTS
Scale: 1/2" = 1'-0"



ELEVATION - CONCRETE BARRIER, END POST & GUARDRAIL
Scale: 1/2" = 1'-0"



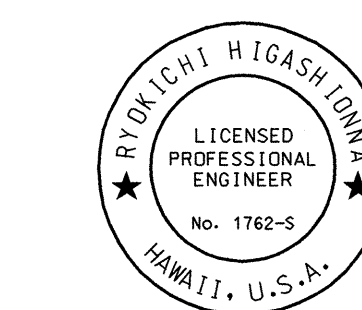
SECTION 1 S-6
Scale: 3/4" = 1'-0"



CAP PLATE
Scale: 6" = 1'-0"

NOTES:

1. The work necessary to connect guardrail to concrete end post shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and shall be incidental to the metal guardrail and will not be paid for separately.
2. See "DOT Standard Plan" Sht. #TE-57 for guardrail Type 3 thrie beam details and Sht. #TE-50 & #TE-51 for W beam metal guardrail details. Lap terminal connector and rail element in direction of traffic to prevent snagging.
3. Where double (nested) beam occur, 12" "Back-up Plate" not required.
4. Terminal connector and accessories will be considered incidental to Guardrail, Type 3 Thrie Beam with Steel Post.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Ryokichi Higashimura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONC. BARRIER, END POST & GUARDRAIL DETAILS

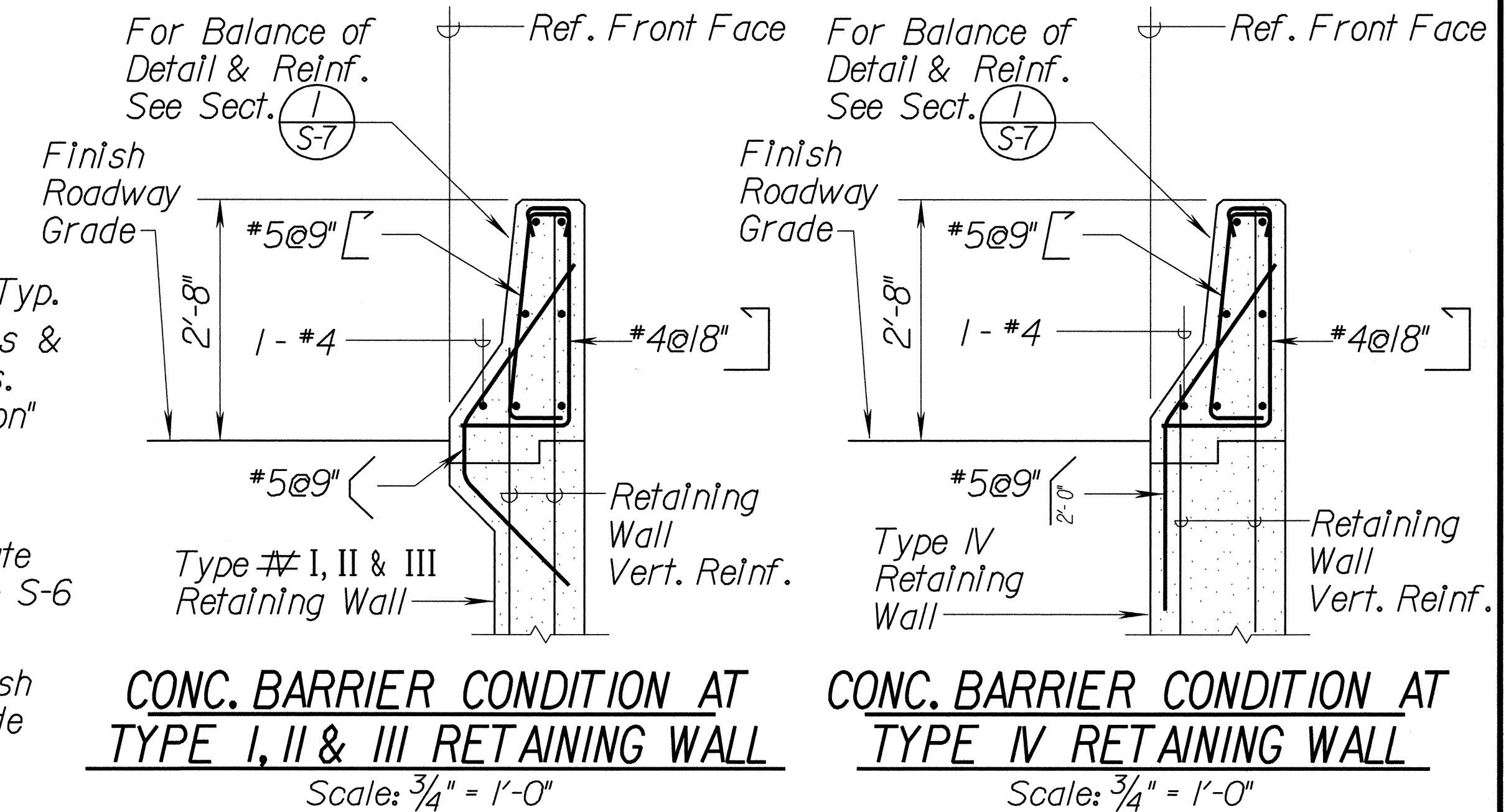
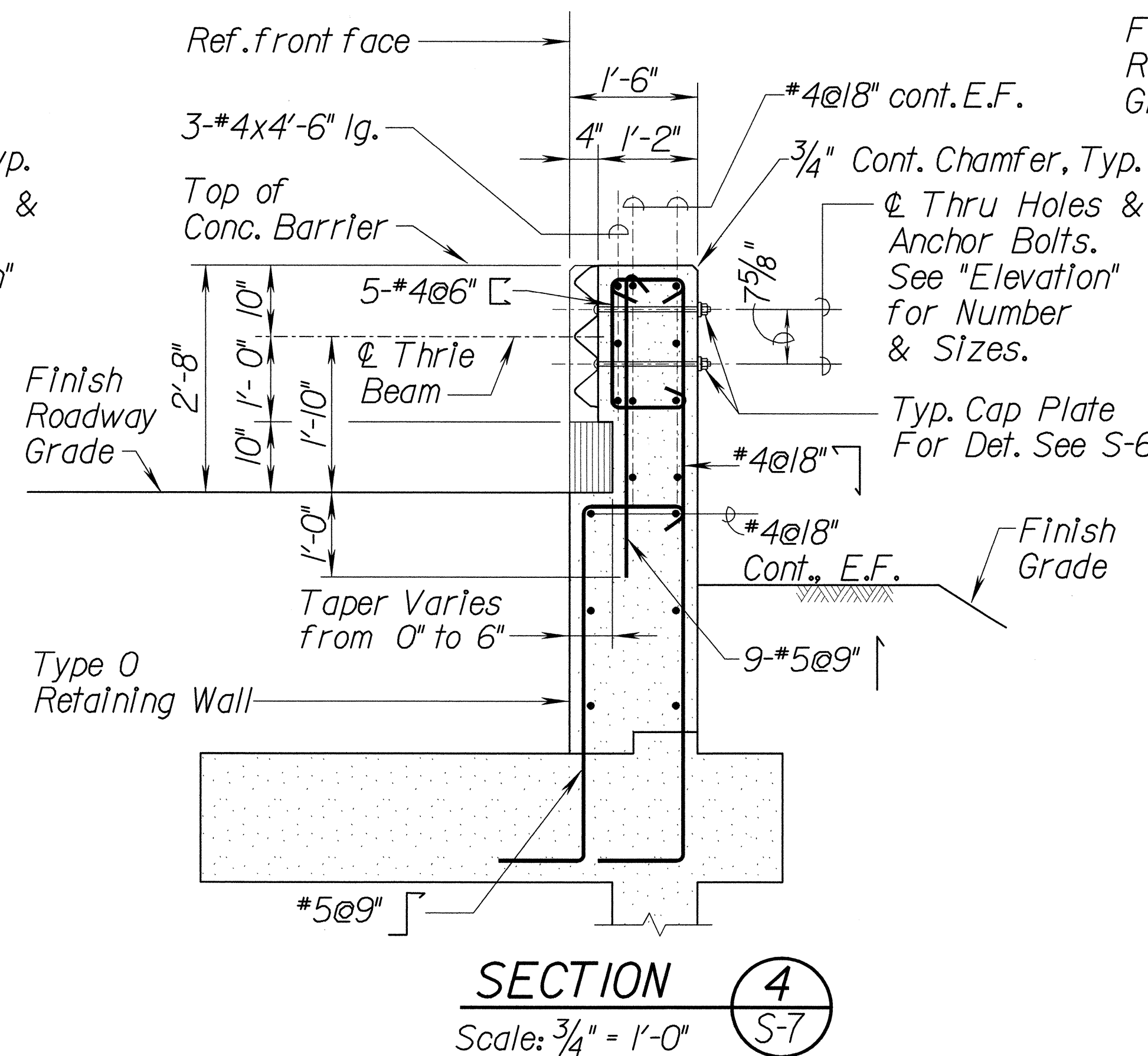
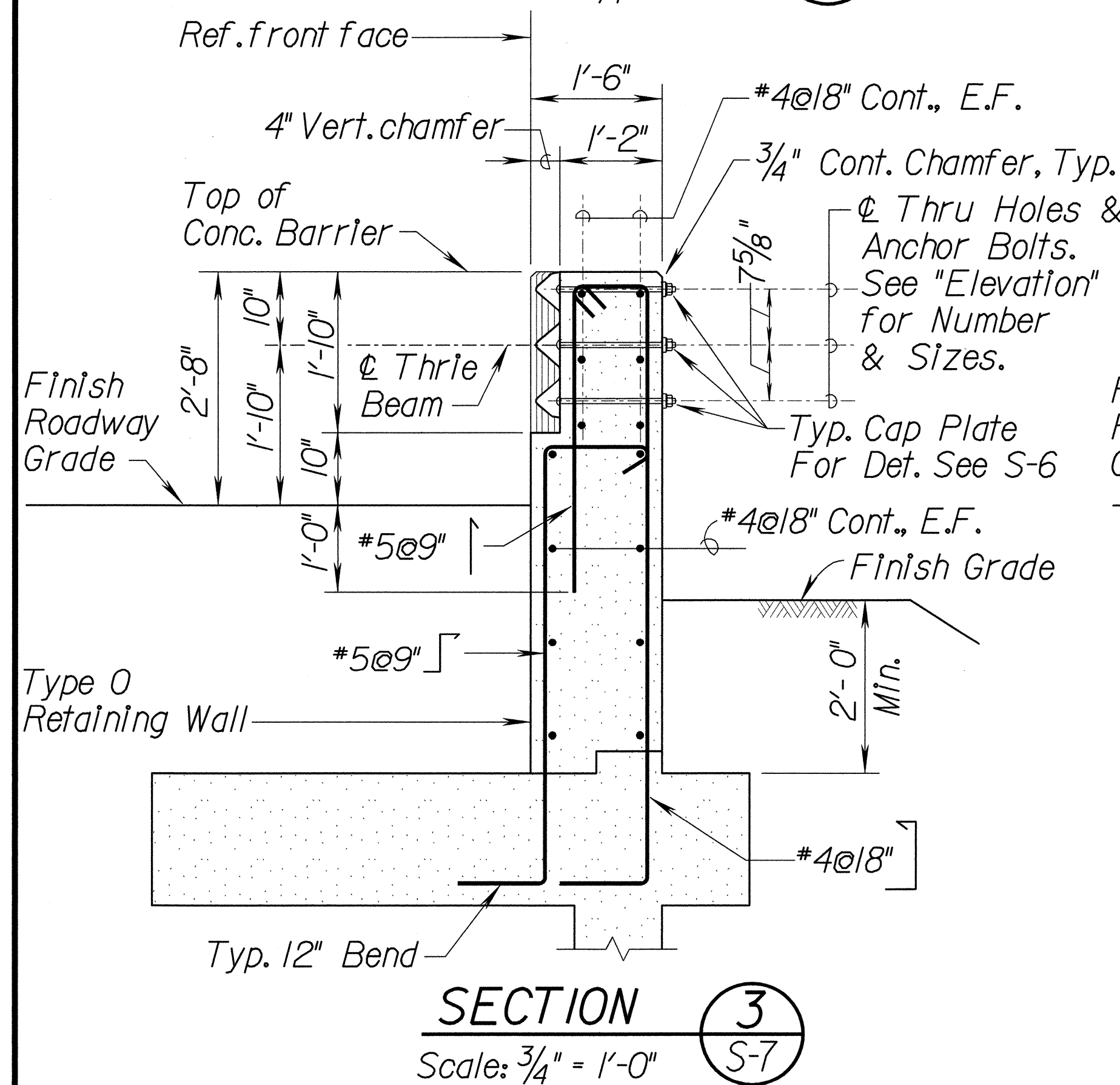
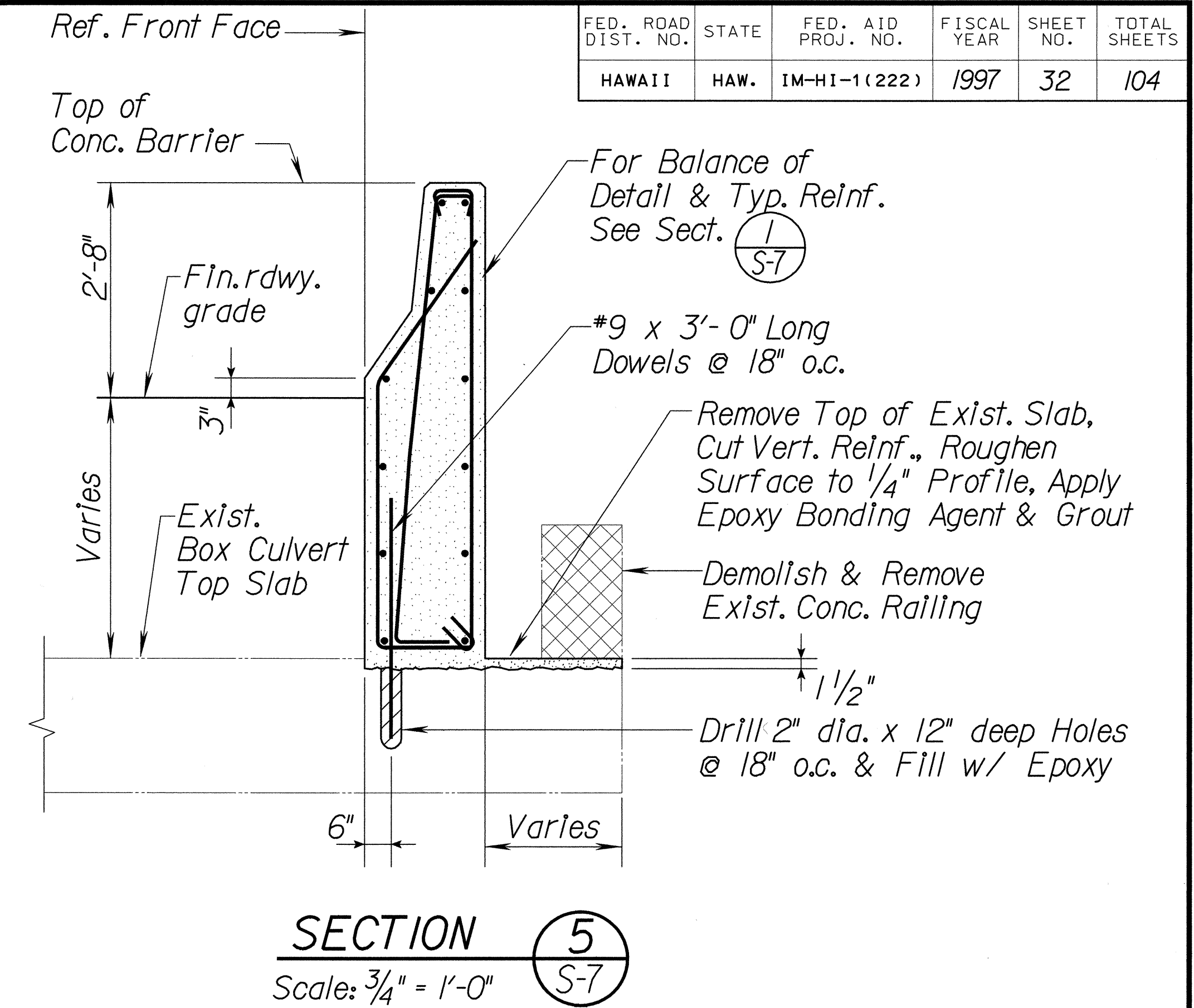
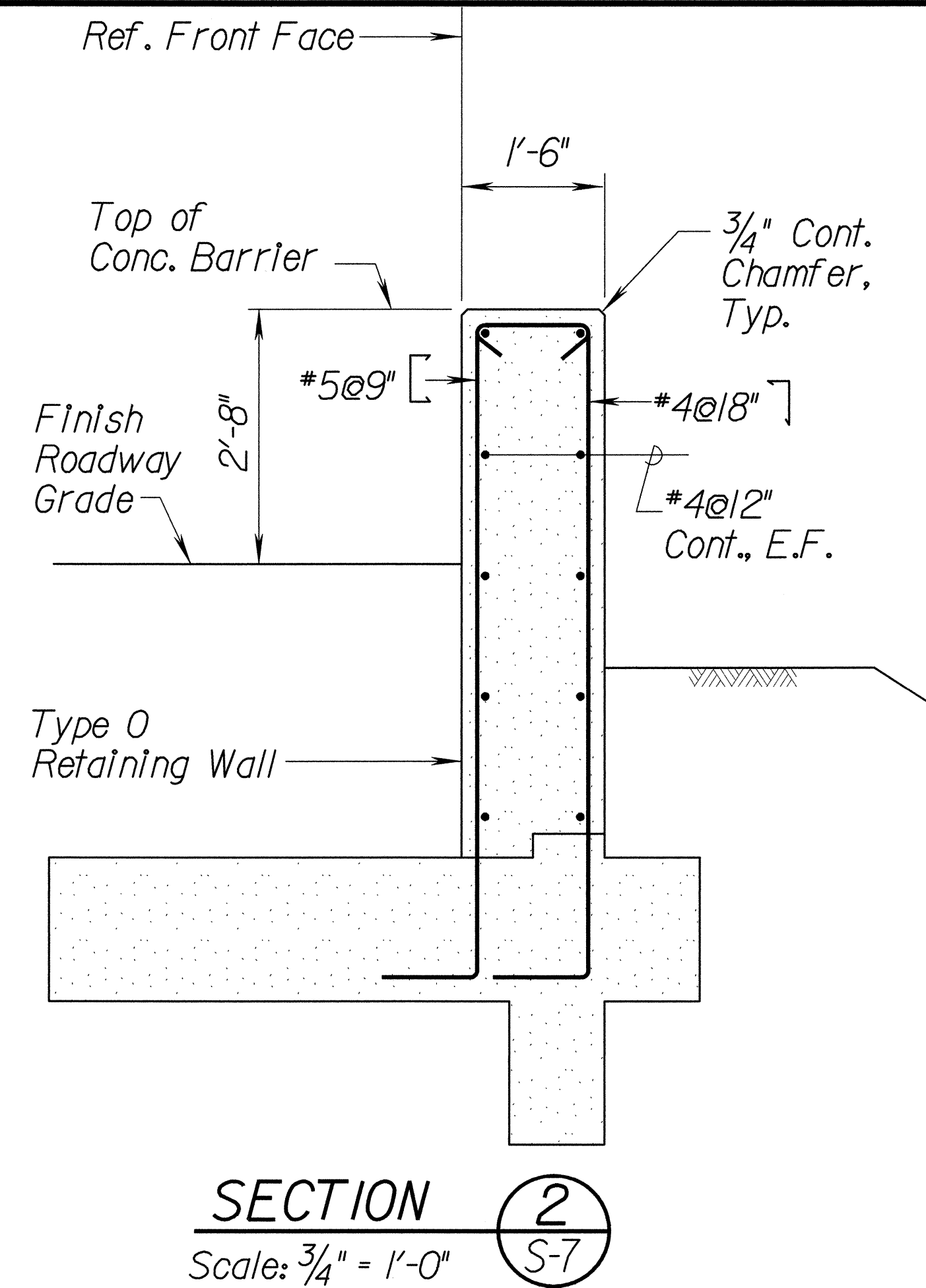
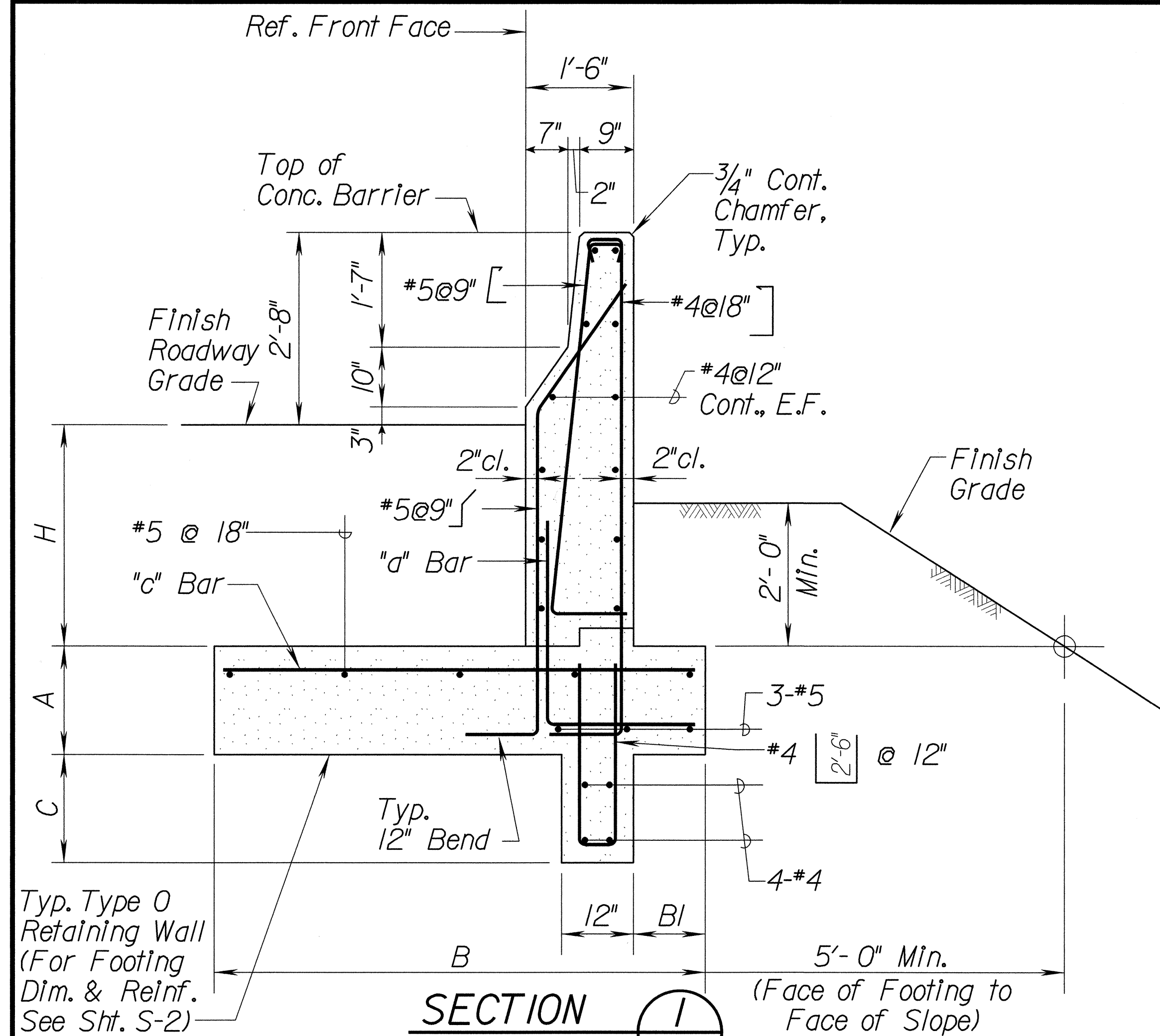
INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

Scale: As Shown Date: May 9, 1997

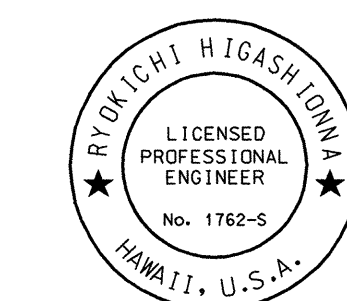
SHEET No. S-6 OF 98 SHEETS

MAKAKILO INTERCHANGE IMPROVEMENTS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(222)	1997	32	104



DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Ryosuke Higashimura

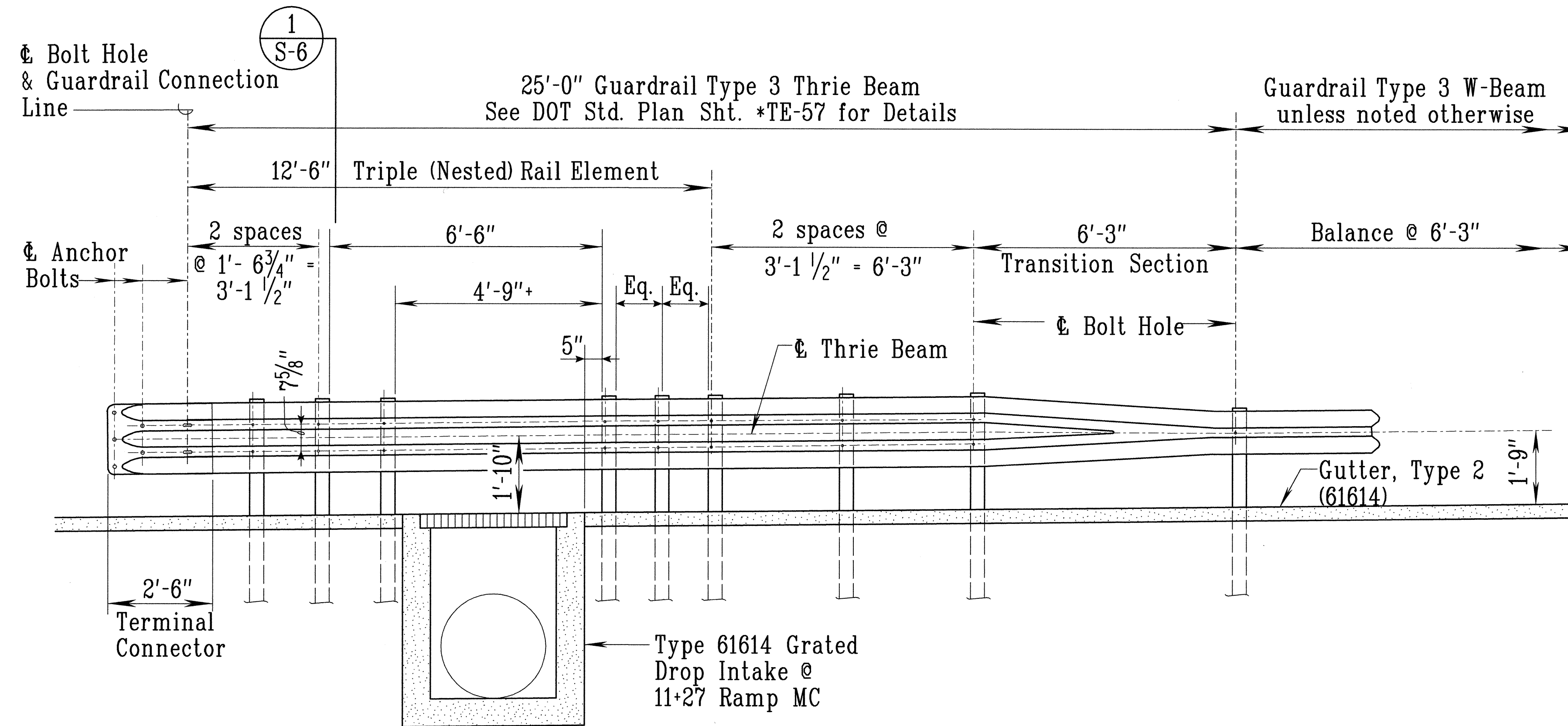
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONC. BARRIER, END POST & GUARDRAIL DETAILS

INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

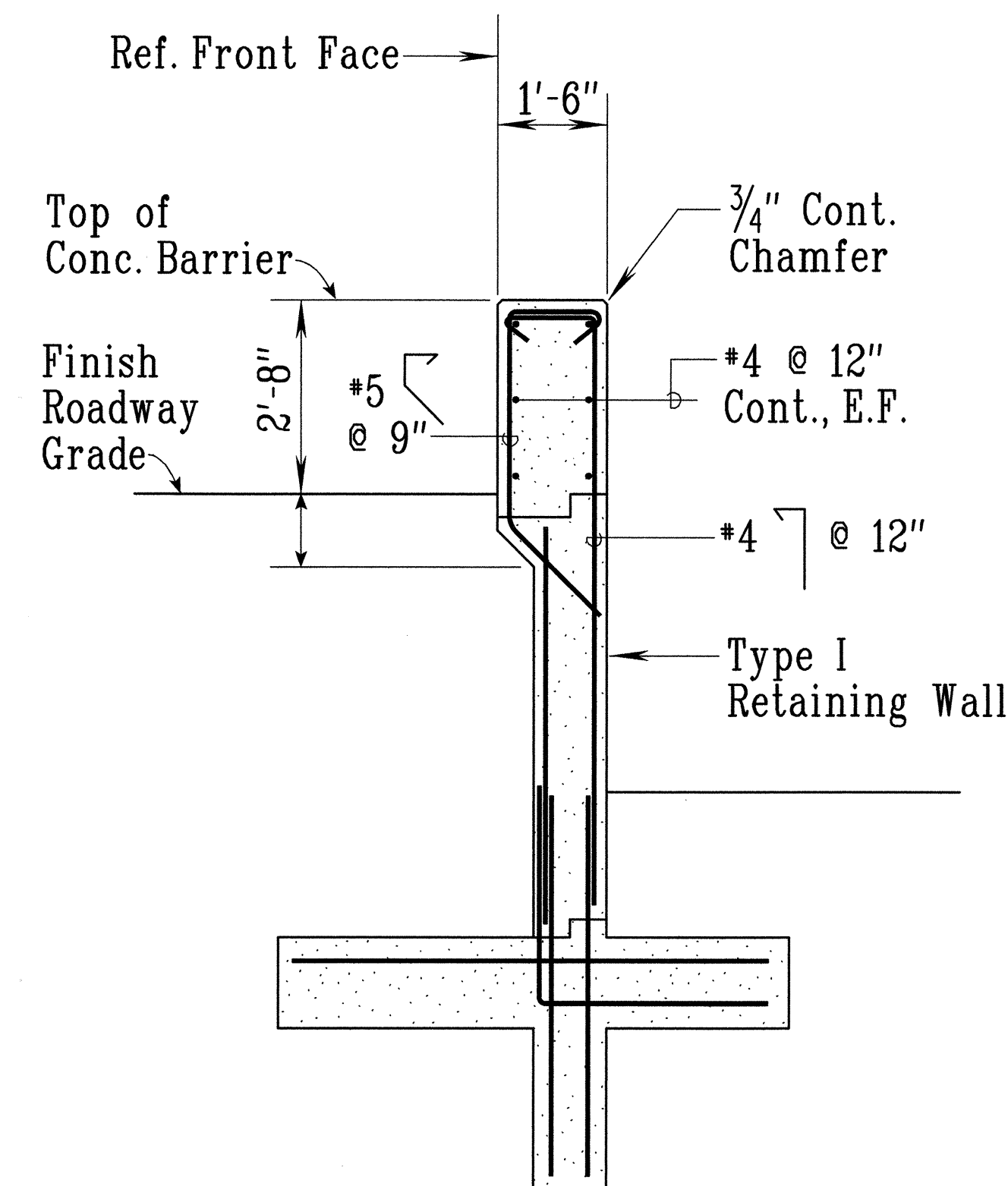
Scale: As Shown Date: May 9, 1997
SHEET No. S-7 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(222)	1997	32	104

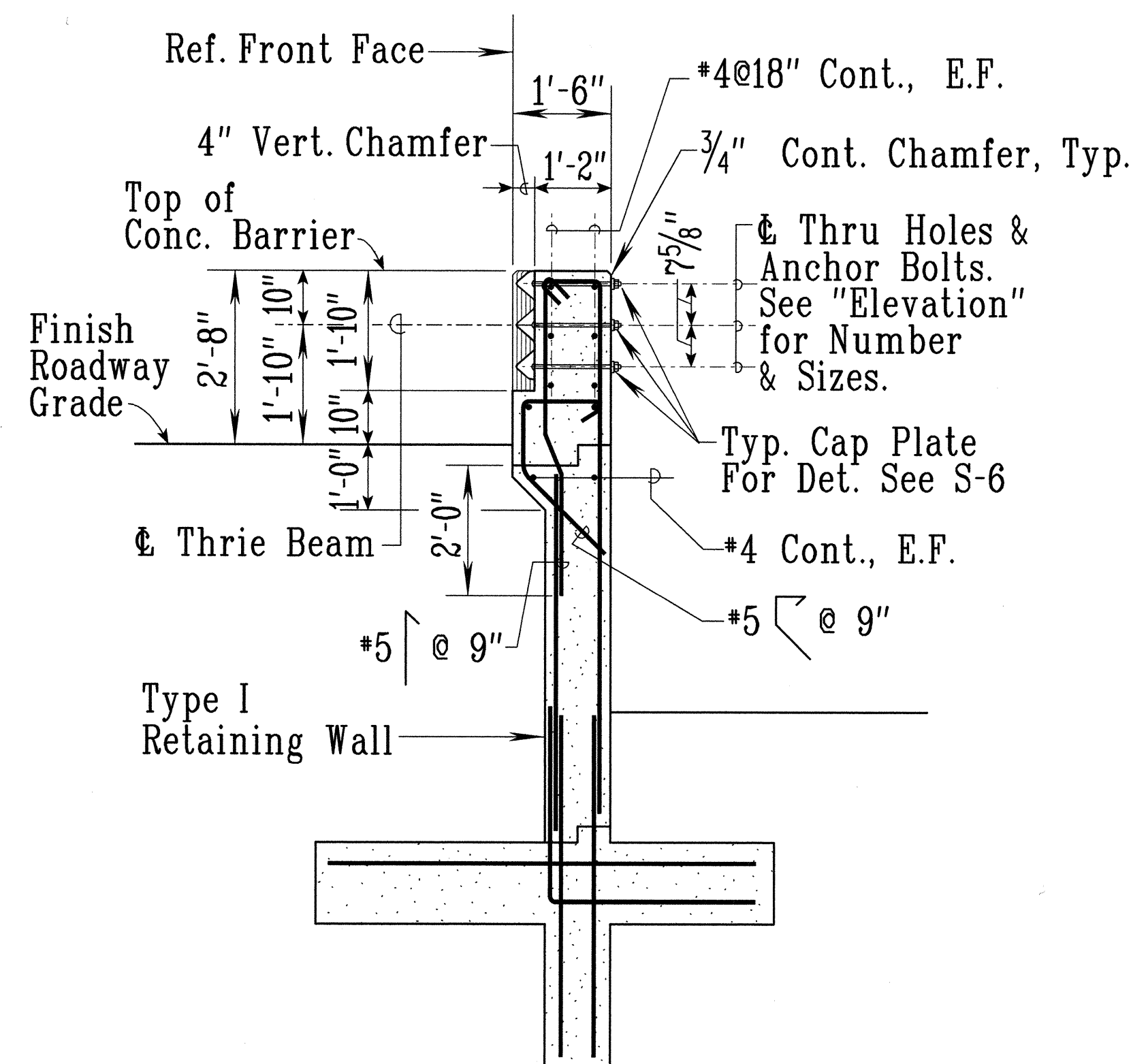


MODIFIED TYPE 3 THRIE BEAM METAL GUARDRAIL AT END POST (11+27 RAMP MC)

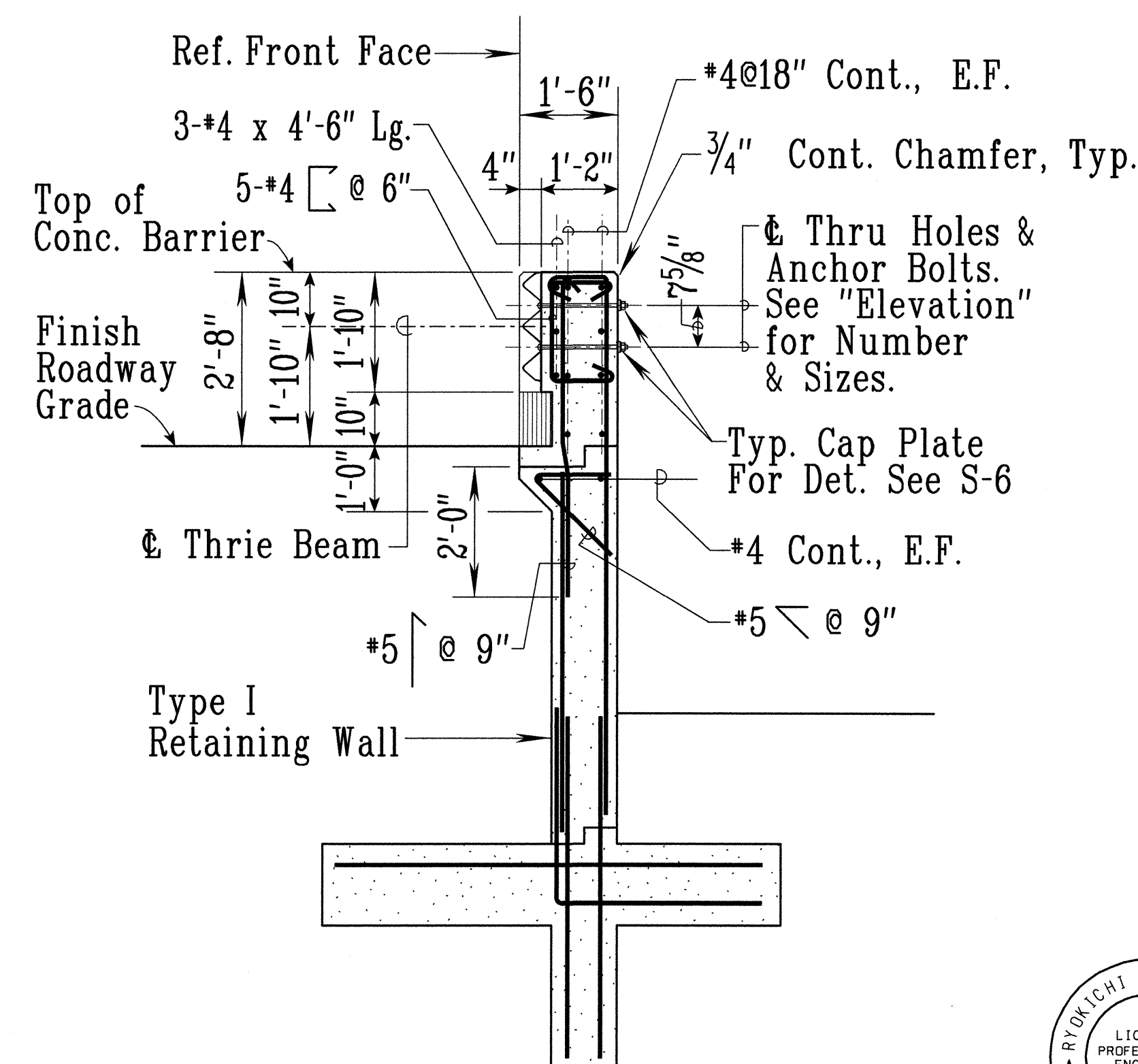
Scale: 1/2" = 1'-0"



RAMP MA SECTION 1
Scale: 1/2" = 1'-0"

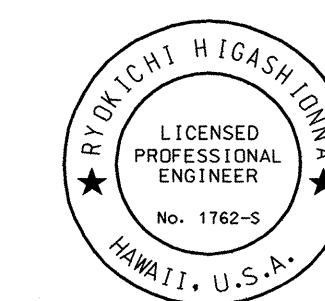


RAMP MA SECTION 2
Scale: 1/2" = 1'-0"



RAMP MA SECTION 3
Scale: 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY	BY	
NOTED BY	BY	
CHECKED BY	BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Ryokuchi Higashi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONC. BARRIER, END POST & GUARDRAIL DETAILS

INTERSTATE ROUTE H-1
Makakilo Interchange Improvements
to Westbound Off-Ramp and
Eastbound On-Ramps

Scale: As Shown Date: May 9, 1997

SHEET No. S-8 OF 38 SHEETS