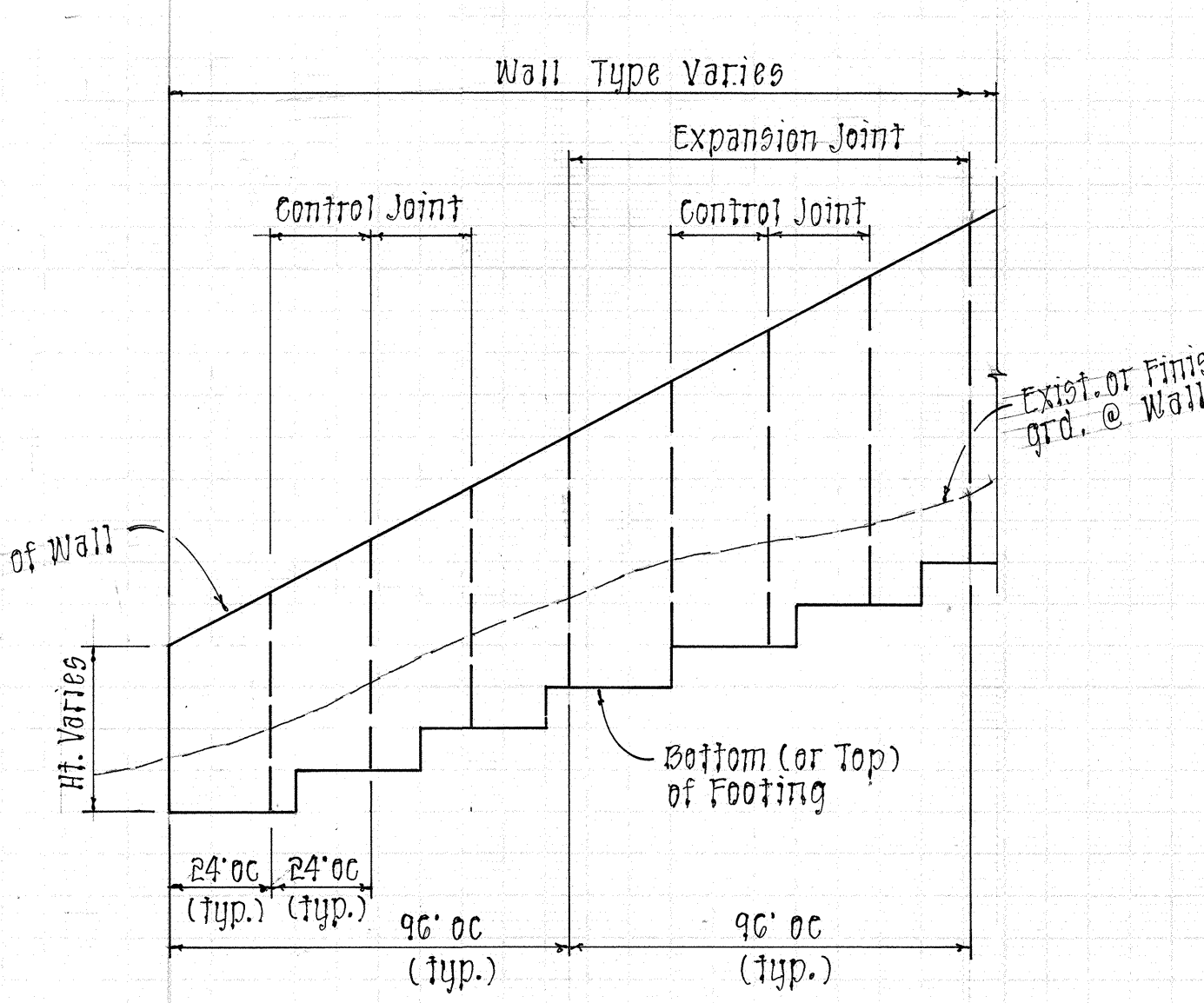
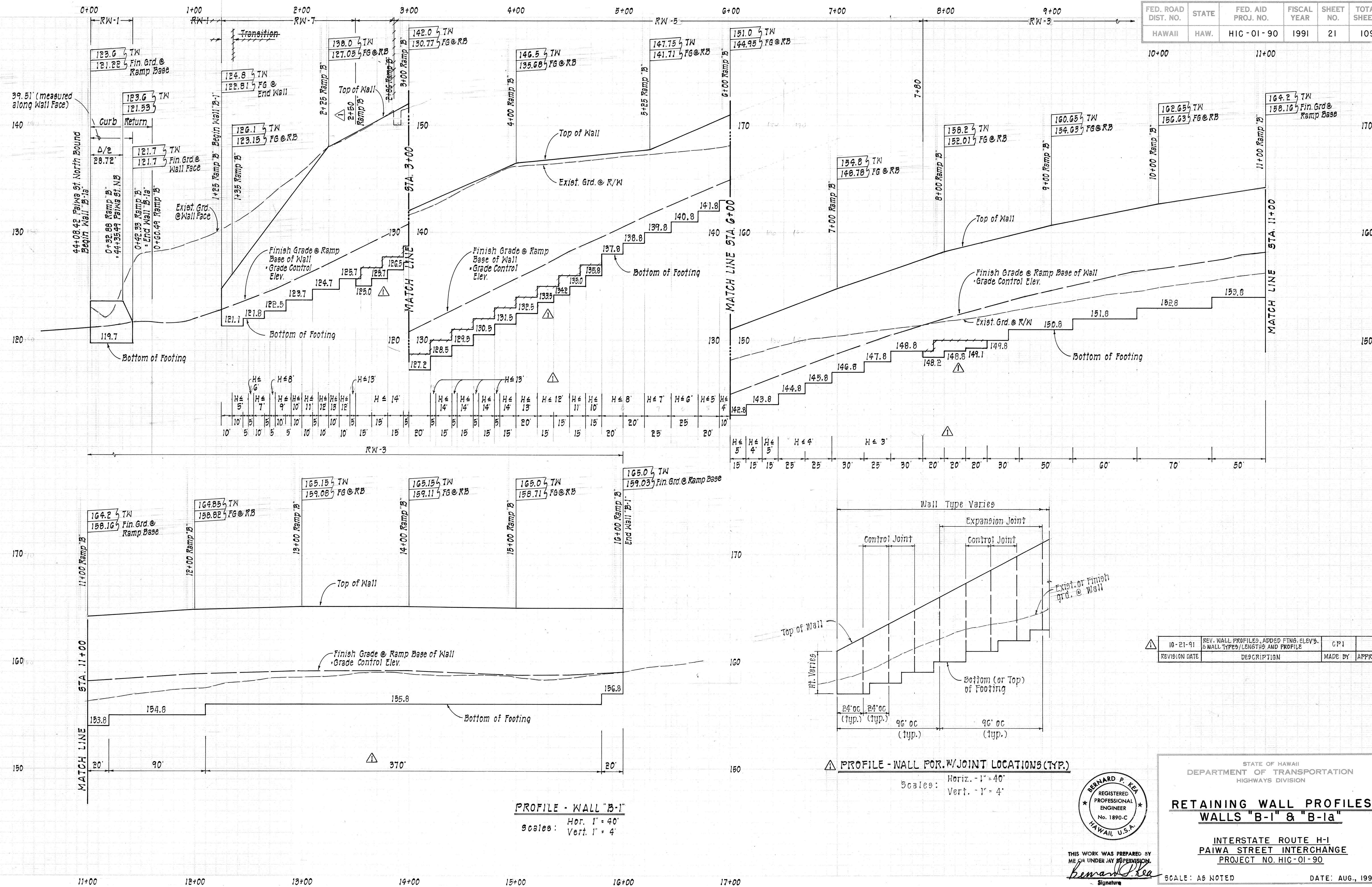
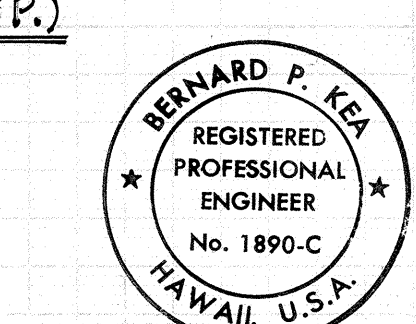


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	21	109



PROFILE - WALL FOR JOINT LOCATIONS (TYP.)
 Scales: Hor. 1" = 40'
 Vert. 1" = 4'

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
10-21-91	REV. WALL PROFILES, ADDED FIN. ELEV'S. & WALL TYPES/LENGTHS AND PROFILE	CP1	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Bernard P. Kua*

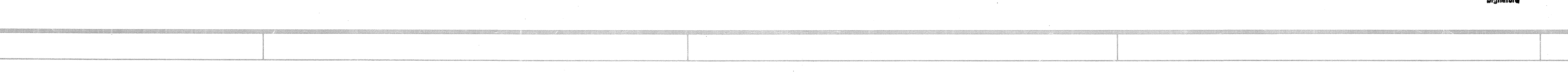
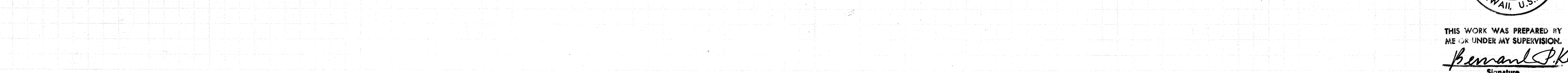
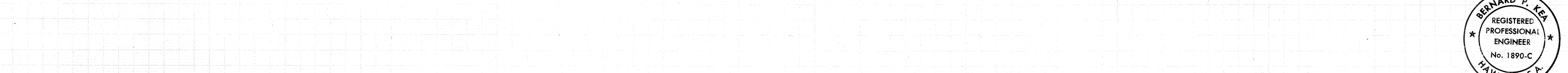
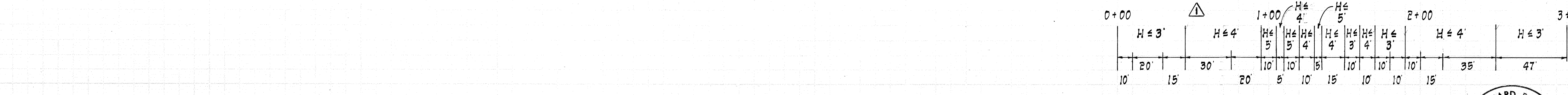
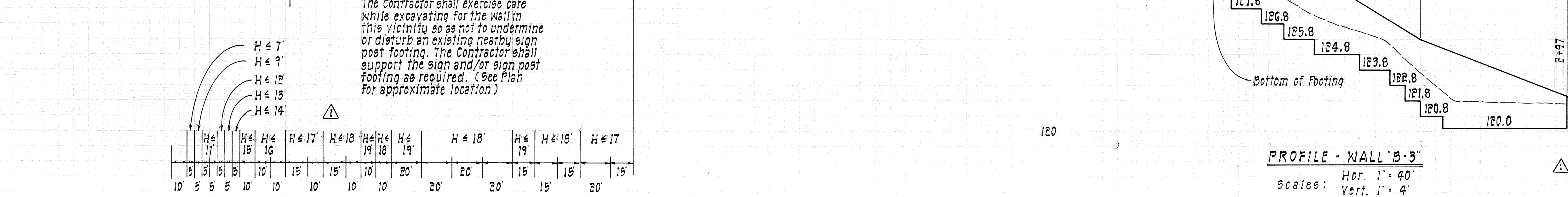
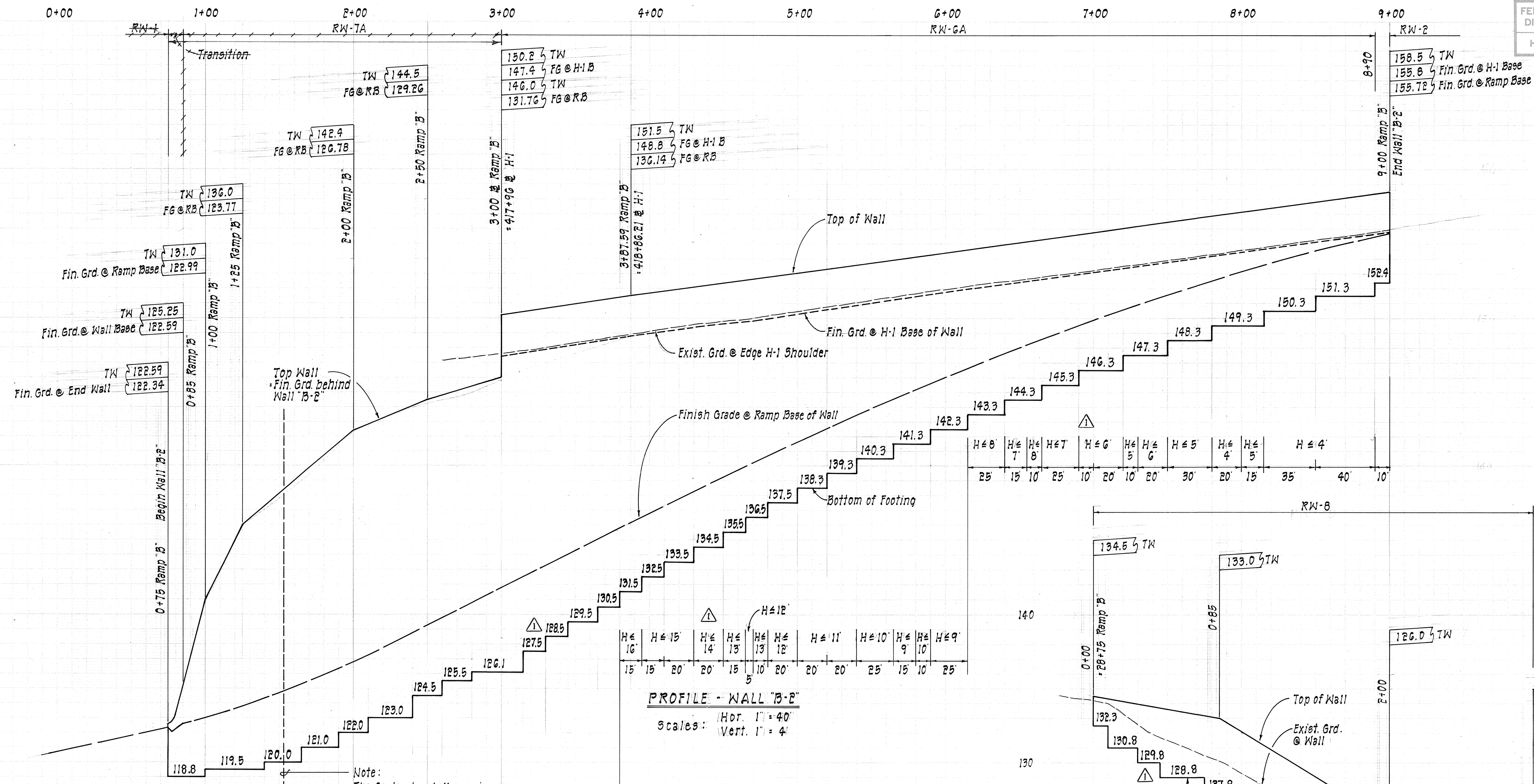
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

RETAINING WALL PROFILES
WALLS "B-1" & "B-1a"

INTERSTATE ROUTE H-1
 PAIWA STREET INTERCHANGE
 PROJECT NO. HIC-01-90

SCALE: AS NOTED
 DATE: AUG., 1991
 SHEET NO. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC - 01 - 90	1991	22	109

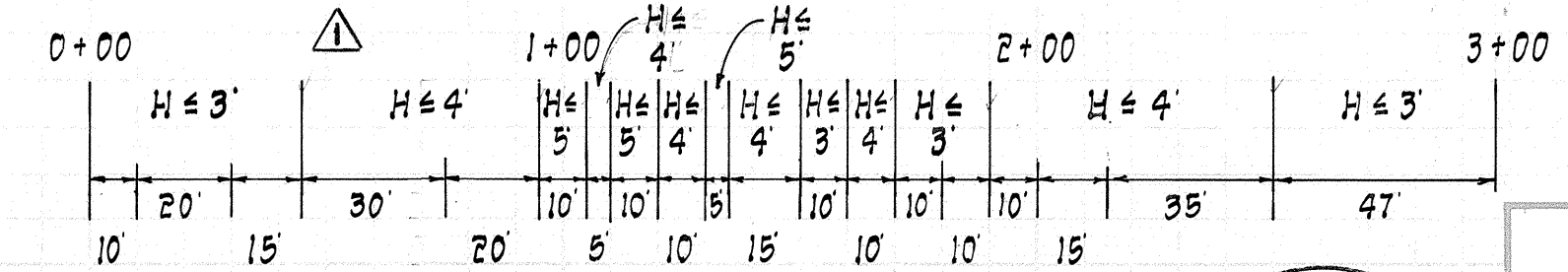


DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

Note:
The Contractor shall exercise care while excavating for the wall in this vicinity so as not to undermine or disturb an existing nearby sign post footing. The Contractor shall support the sign and/or sign post footing as required. (See Plan for approximate location)

PROFILE - WALL "B-3"

Scales: Hor. 1" = 40'
Vert. 1" = 4'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Bernard P. Kea
Signature

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
10-81-91	REVISED WALL PROFILES, ADDED FTNG. ELEV'S. & WALL TYPES/LENGTHS	GP1	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

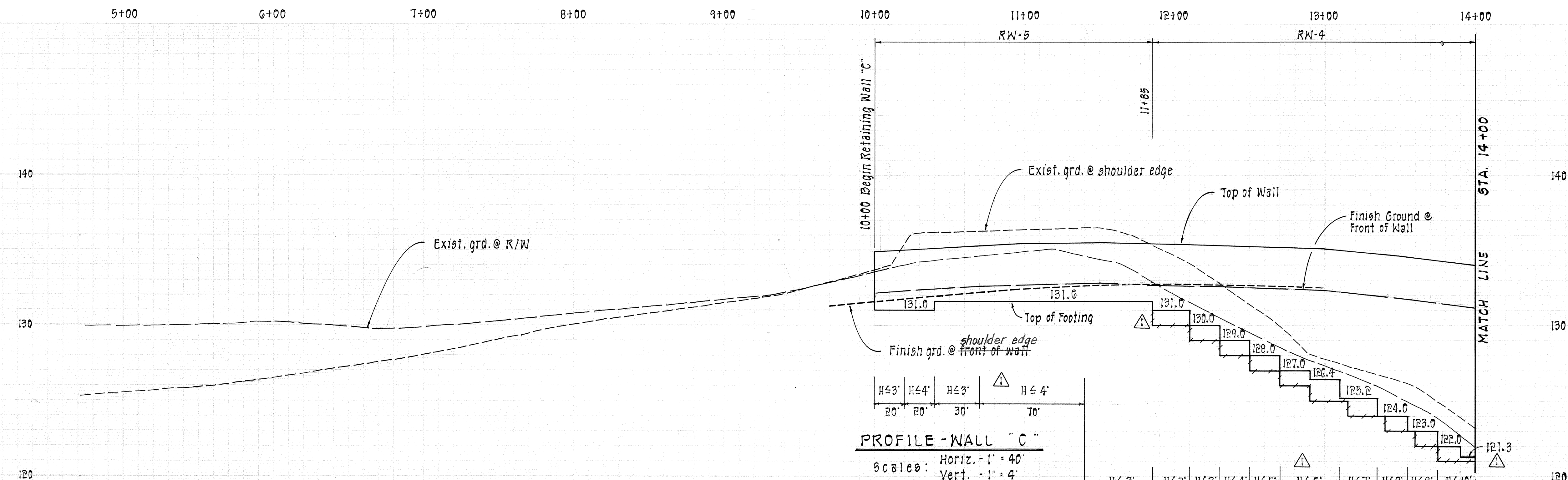
**RETAINING WALL PROFILES
WALLS "B-2" & "B-3"**

INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

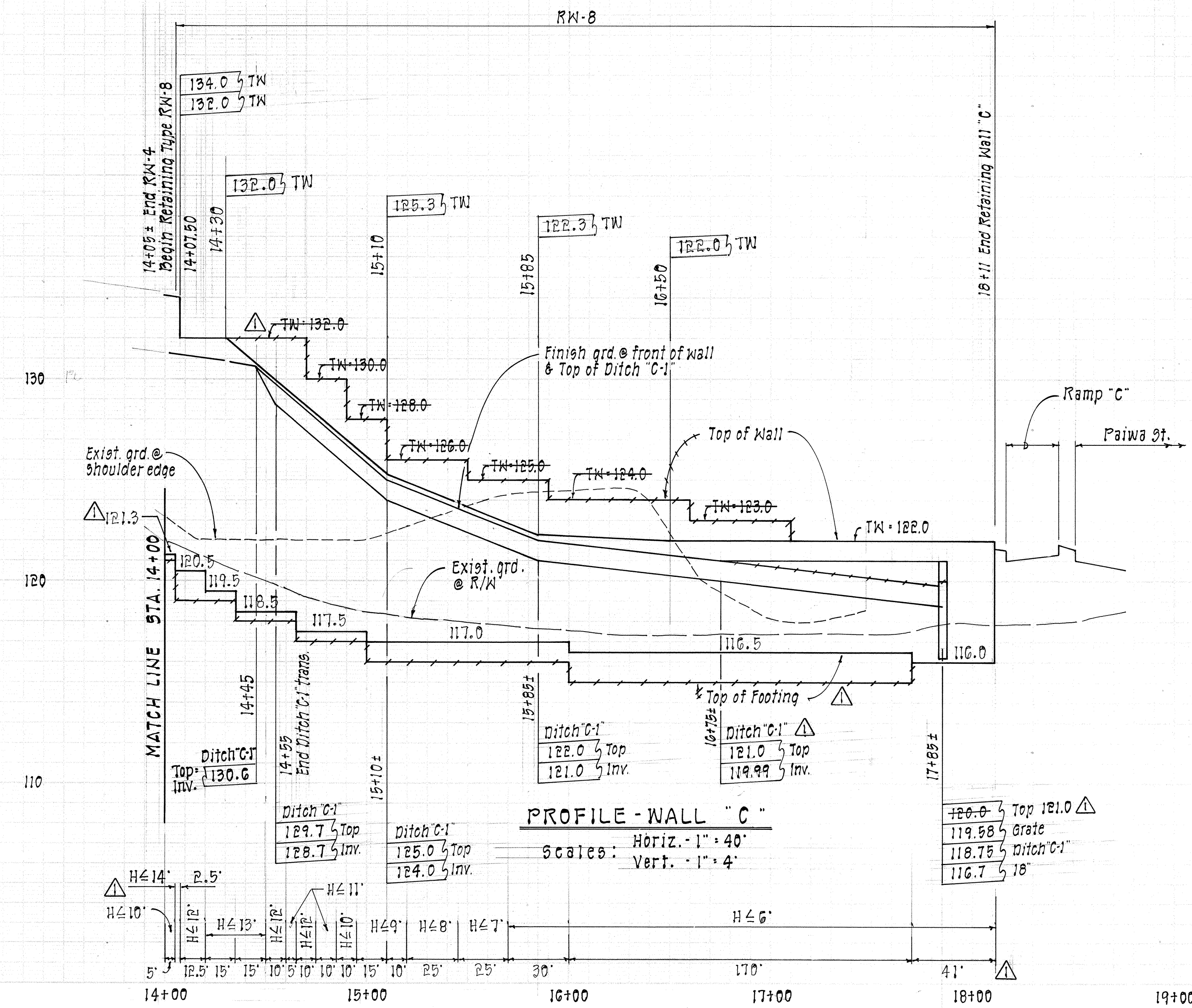
SCALE: AS NOTED DATE: AUG., 1991

SHEET NO. 2 OF 3 SHEETS

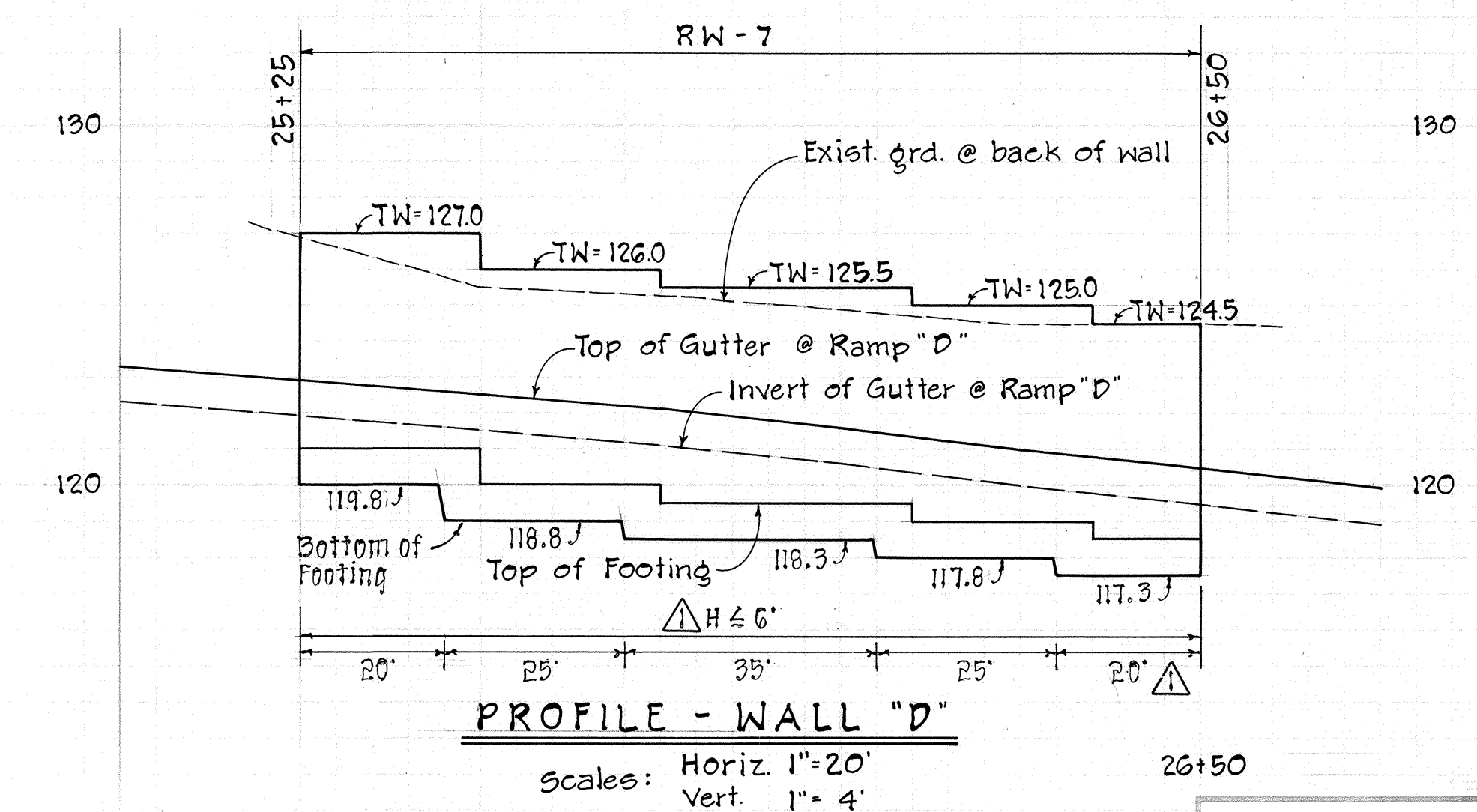
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	23	109



PROFILE - WALL "C"
 Scales: Horiz. 1" = 40'
 Vert. 1" = 4'

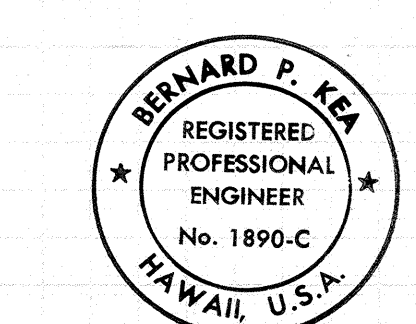


PROFILE - WALL "C"
 Scales: Horiz. 1" = 40'
 Vert. 1" = 4'



PROFILE - WALL "D"
 Scales: Horiz. 1" = 20'
 Vert. 1" = 4'

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
10-21-91	REVISED WALL PROFILES, ADDED FTNG. ELEV'S. & WALL TYPES/LENGTHS	CPI	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Signature: *Bernard P. Kea*

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**RETAINING WALL PROFILES
 WALLS "C" & "D"**

INTERSTATE ROUTE H-1
 PAIWA STREET INTERCHANGE
 PROJECT NO. HIC-01-90

SCALE: AS NOTED DATE: AUG., 1991
 SHEET NO. 3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	24	109

GENERAL

- IN GENERAL, THE WORK SHALL CONFORM TO THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION).

REINFORCED CONCRETE

- ALL CONCRETE SHALL BE CLASS 'A' CONFORMING TO THE ABOVE SPECIFICATIONS.
- ALL REINFORCING STEEL EXCEPT TIES AND STIRRUPS SHALL CONFORM TO ASTM A615 GRADE 40. TIES, STIRRUPS AND REBARS TO BE WELDED SHALL BE ASTM A615 GRADE 40.
- UNLESS OTHERWISE NOTED, SPLICES, LAPS, DOWEL EXTENSIONS AND EMBEDMENTS SHALL BE 50 BAR DIAMETERS MINIMUM.
- ALL REINFORCING BARS MARKED CONTINUOUS (CONT.) ON THE PLANS SHALL BE LAPPED 40 BAR DIAMETERS MINIMUM.
- STAGGER ALL SPLICES WHERE POSSIBLE.
- ALL WELDING OF REINFORCING SHALL CONFORM TO "STRUCTURAL WELDING CODE - REINFORCING STEEL" (AWS D1.4).
- REBARS SHALL BE SUPPORTED, BENT AND PLACED AS PER AASHTO & "HAWAII STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION" (LATEST EDITION).
- MINIMUM COVER IN INCHES FOR REBARS FOR CAST-IN-PLACE CONCRETE:
CONCRETE CAST AGAINST EARTH 3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 AND SMALLER 2"
#6 AND LARGER 2"
- AT TIME CONCRETE IS PLACED, REINFORCING SHALL BE FREE FROM MUD, OIL, LAITANCE OR OTHER COATINGS ADVERSELY AFFECTING BOND CAPACITY.
- REINFORCEMENT, ANCHOR BOLTS, DOWELS AND ALL OTHER EMBEDDED ITEMS SHALL BE POSITIVELY SECURED BEFORE POURING.
- WHEN REBARS OR THREADED RODS ARE DRILLED AND GROUTED IN PLACE USE SIKADUR HI-MOD EPOXY OR APPROVED EQUAL. HOLE DIAMETER SHALL BE 1/4" LARGER THAN DIAMETER OF BAR OR ROD. THE MANUFACTURER'S INSTRUCTIONS SHALL BE CLOSELY FOLLOWED.

RETAINING WALLS

- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED NATURAL SOILS OR PROPERLY COMPACTED STRUCTURAL FILL. THE BOTTOM OF ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY A QUALIFIED FOUNDATION ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE.
- ALL WATER, MUD AND DEBRIS SHALL BE REMOVED FROM THE BOTTOM OF FOOTING EXCAVATIONS PRIOR TO THE PLACEMENT OF CONCRETE.
- THE UPPER ONE FOOT OF BACKFILL BEHIND WALLS SHALL CONSIST OF AN IMPERVIOUS, NON-EXPANSIVE, COHESIVE SOIL TO MINIMIZE SEEPAGE OF SURFACE WATER BEHIND WALLS.
- AT THE BACK OF ALL WALLS AN 18" THICK CONTINUOUS BLANKET OF PEA GRAVEL SHALL BE PLACED AT THE BACK OF ALL WALLS. AT THE BOTTOM OF THE BLANKET A 6 INCH MINIMUM DIAMETER PERFORATED DRAIN PIPE SHALL BE PLACED AND SLOPED TO DAY LIGHT.
- THE PEA GRAVEL SHALL BE HARD, TOUGH, DURABLE ROCK WRAPPED IN A FILTER FABRIC AND SHALL CONFORM TO THE FOLLOWING GRADATION:

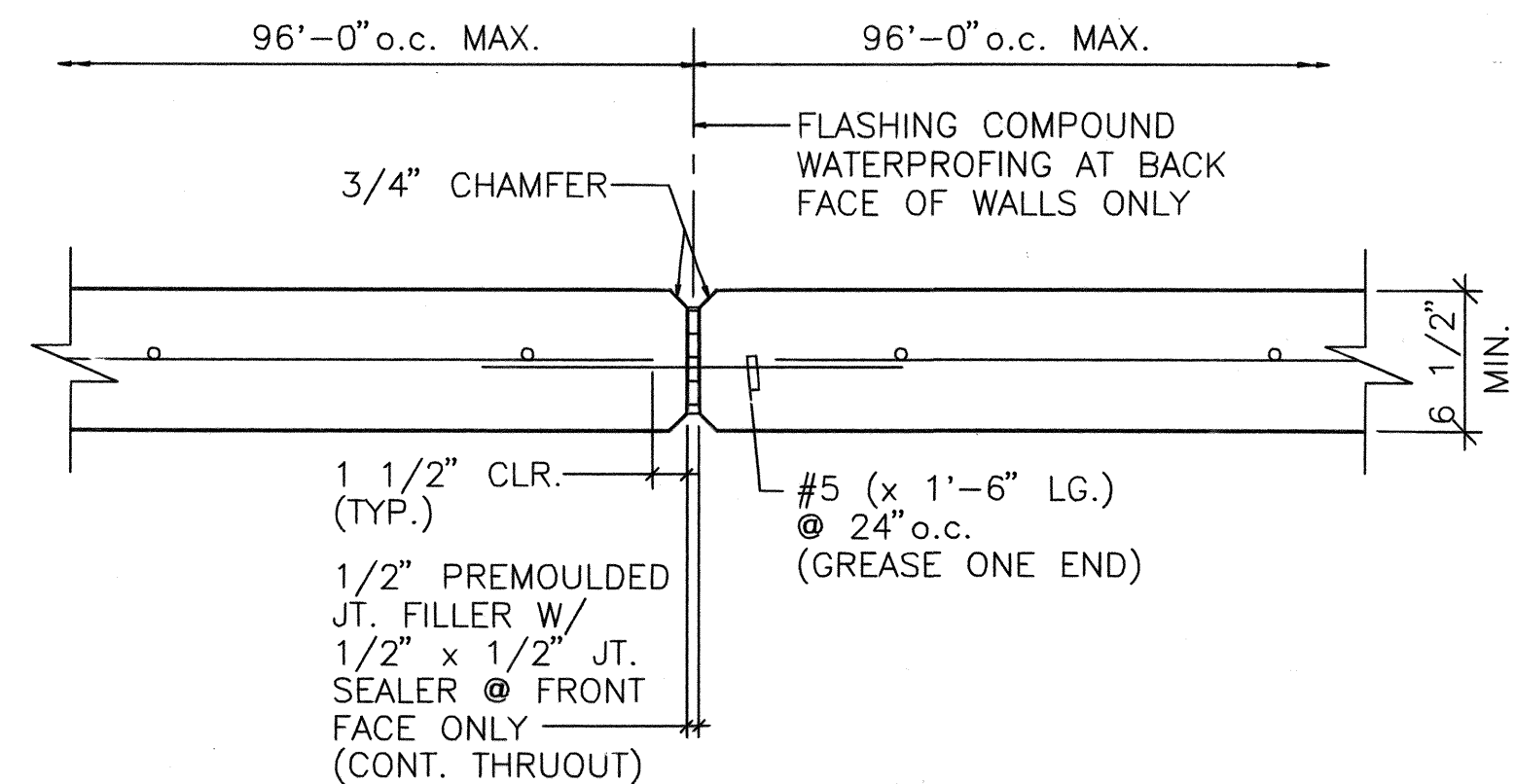
SIEVE SIZE	% PASSING BY DRY WEIGHT
1-1/2 INCH	90 - 100
3/4 INCH	50 - 100
NO. 4	0 - 50
NO. 200	0 - 5

STANDARD SIZE AGGREGATES NO. 6, 57 AND 67 AND 1-1/2 INCH FILTER MATERIALS SHOULD SATISFY THIS GRADATION REQUIREMENT. FILTER FABRIC SHALL BE MIRAFI 140N OR ALTERNATE TYPE APPROVED BY THE ENGINEER.

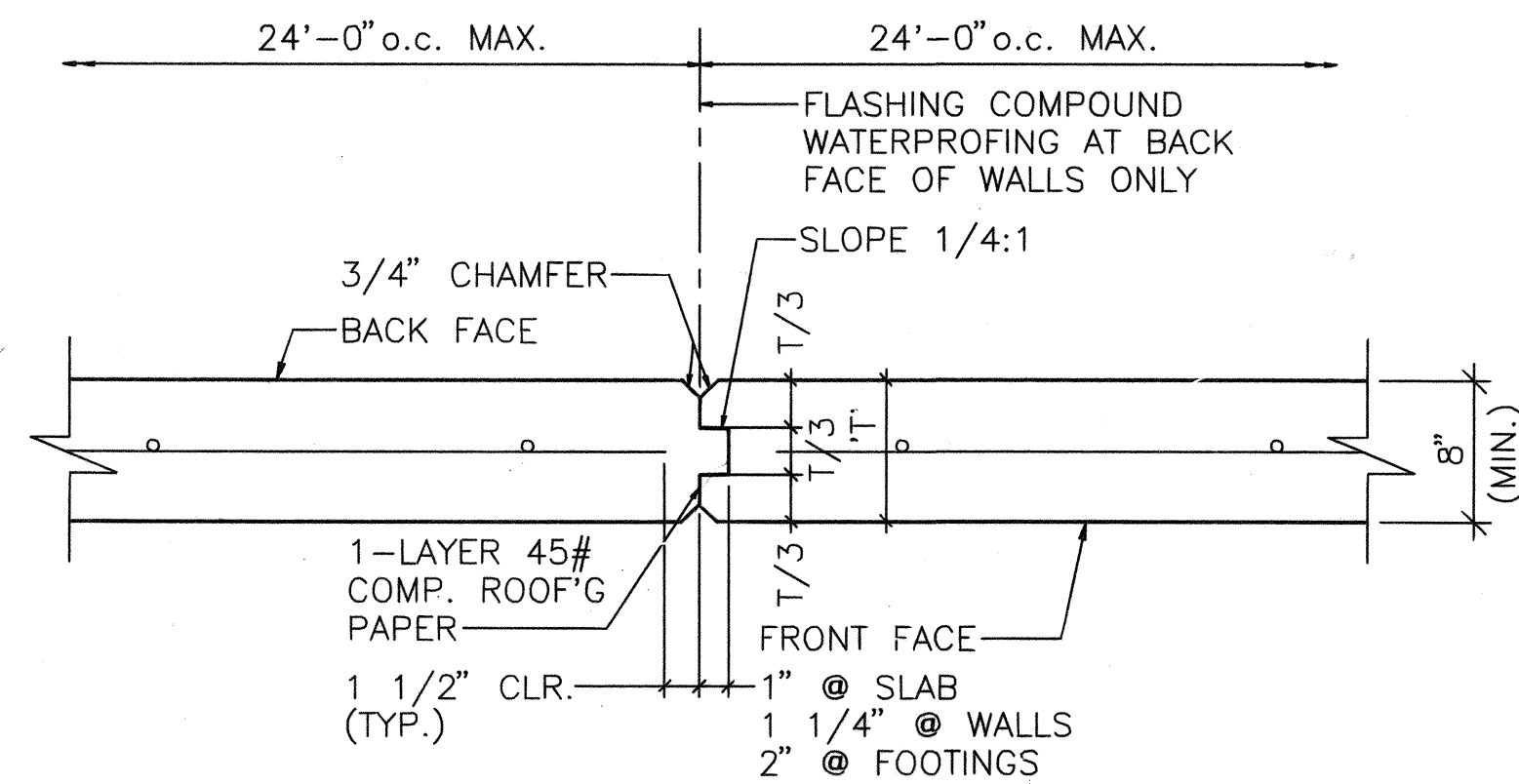
- BACKFILL SHALL CONSIST OF ON SITE MATERIAL APPROVED BY THE ENGINEER. WHERE INDICATED BACKFILL WITH SELECT GRANULAR MATERIAL APPROVED BY THE ENGINEER.

DESIGN CRITERIA

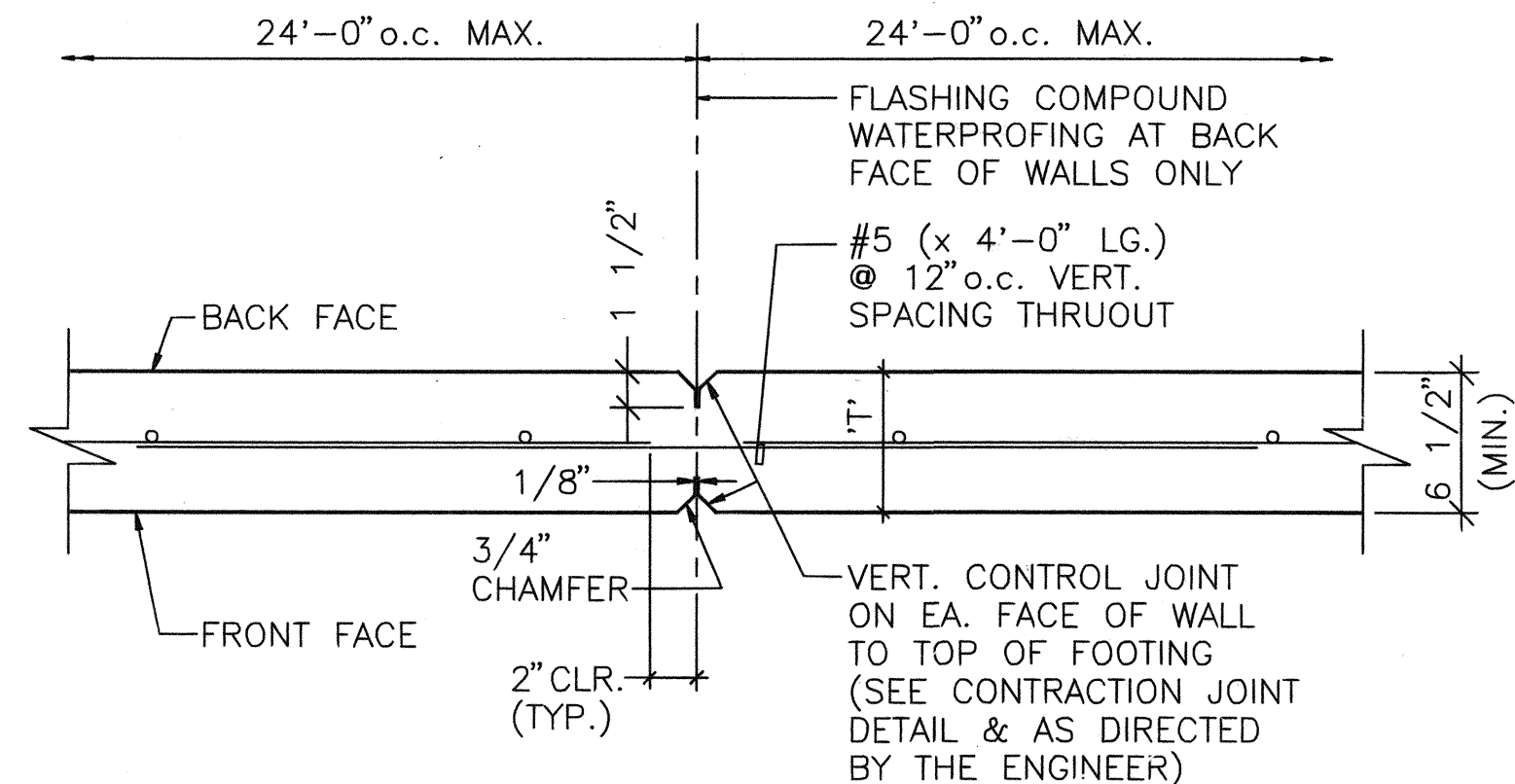
- THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE FOUNDATION INVESTIGATION REPORT BY PSC ASSOCIATES, INC., JOB NO. 87101.14. BEARING CAPACITIES, ACTIVE AND PASSIVE PRESSURES AND COEFFICIENT OF FRICTION MAY VARY WITH SITE CONDITIONS.
- AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES FOURTEENTH EDITION 1989 AND ALL SUBSEQUENT INTERIMS.
- SEISMIC DESIGN:
CATEGORY "B"
ACCELERATION COEFF. 0.16



COND. AT EXPANSION JOINT

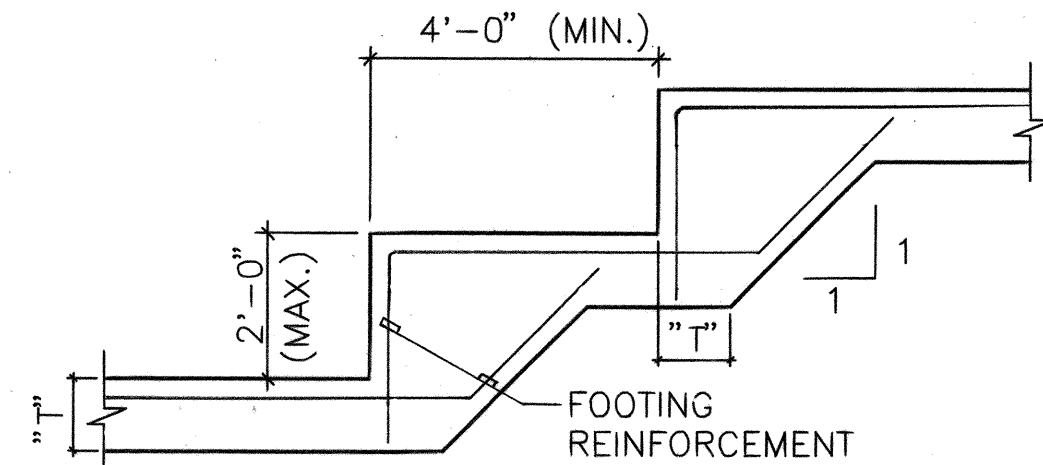


COND. AT CONTRACTION JOINT



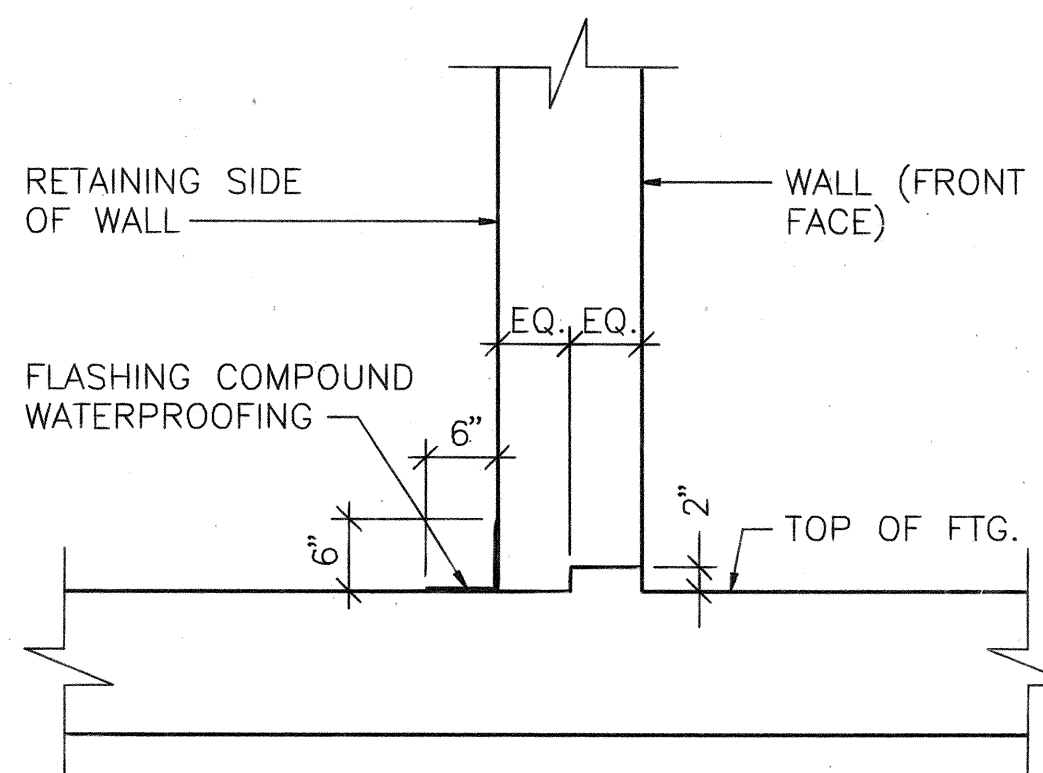
COND. AT ALTERNATE CONTRACTION JOINT OR CONTROL JOINT

TYP. JOINT DETAILS (PLAN AT WALL SECTION AT SLAB)
SC: 1 1/2" = 1'-0"



NOTE: STEP NOT ALLOWED IN COLUMN FOOTINGS

TYP. STEPPED FOOTING DET. B
SC: 3/8" = 1'-0"



TYP. KEY & WATERPROOFING DET. AT WALL/FOOTING CONN. C
SC: 3/4" = 1'-0"

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
NO.	_____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: *Thomas Y. Tanimura*

10-21-91	ADDED SEISMIC DESIGN CRITERIA	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RETAINING WALL DETAILS

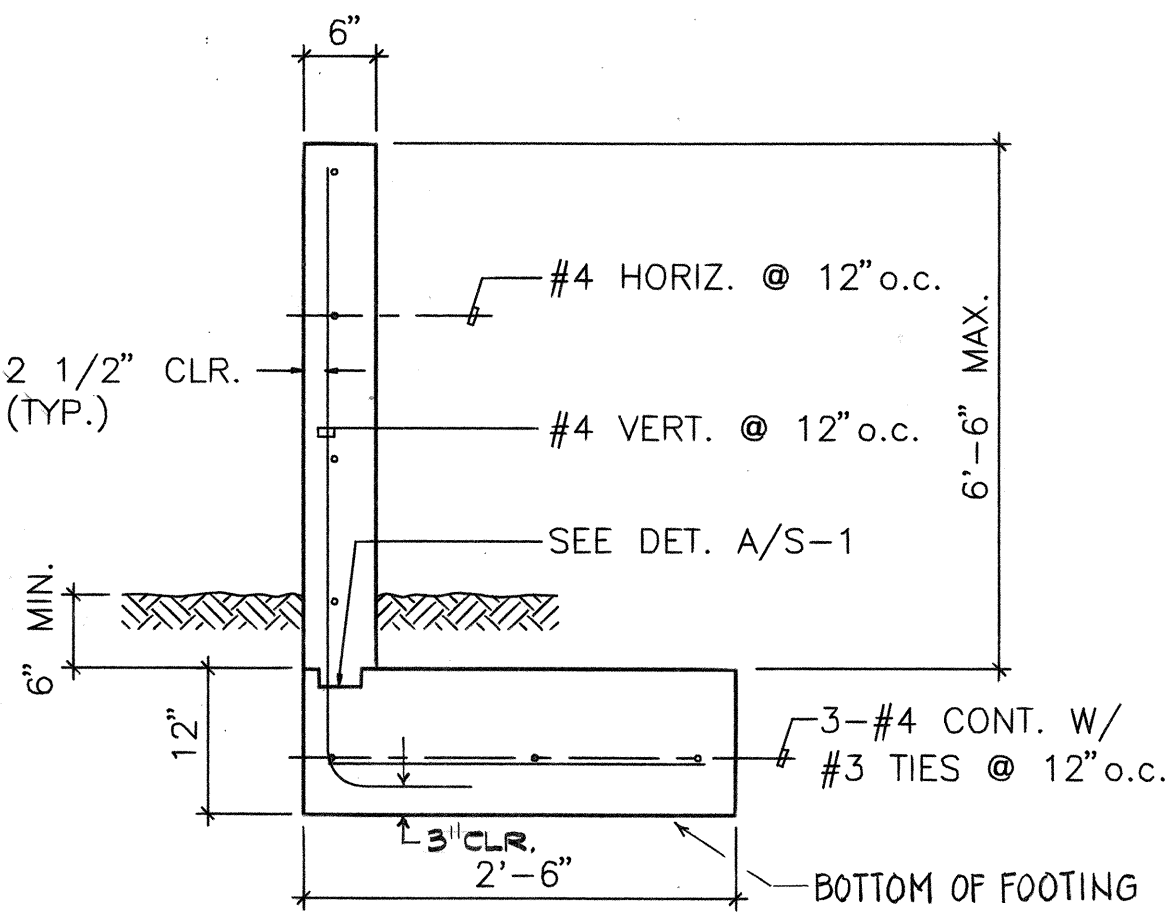
INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

SCALE AS NOTED DATE: AUG., 1991

SHEET NO. 1 OF 6 SHEETS

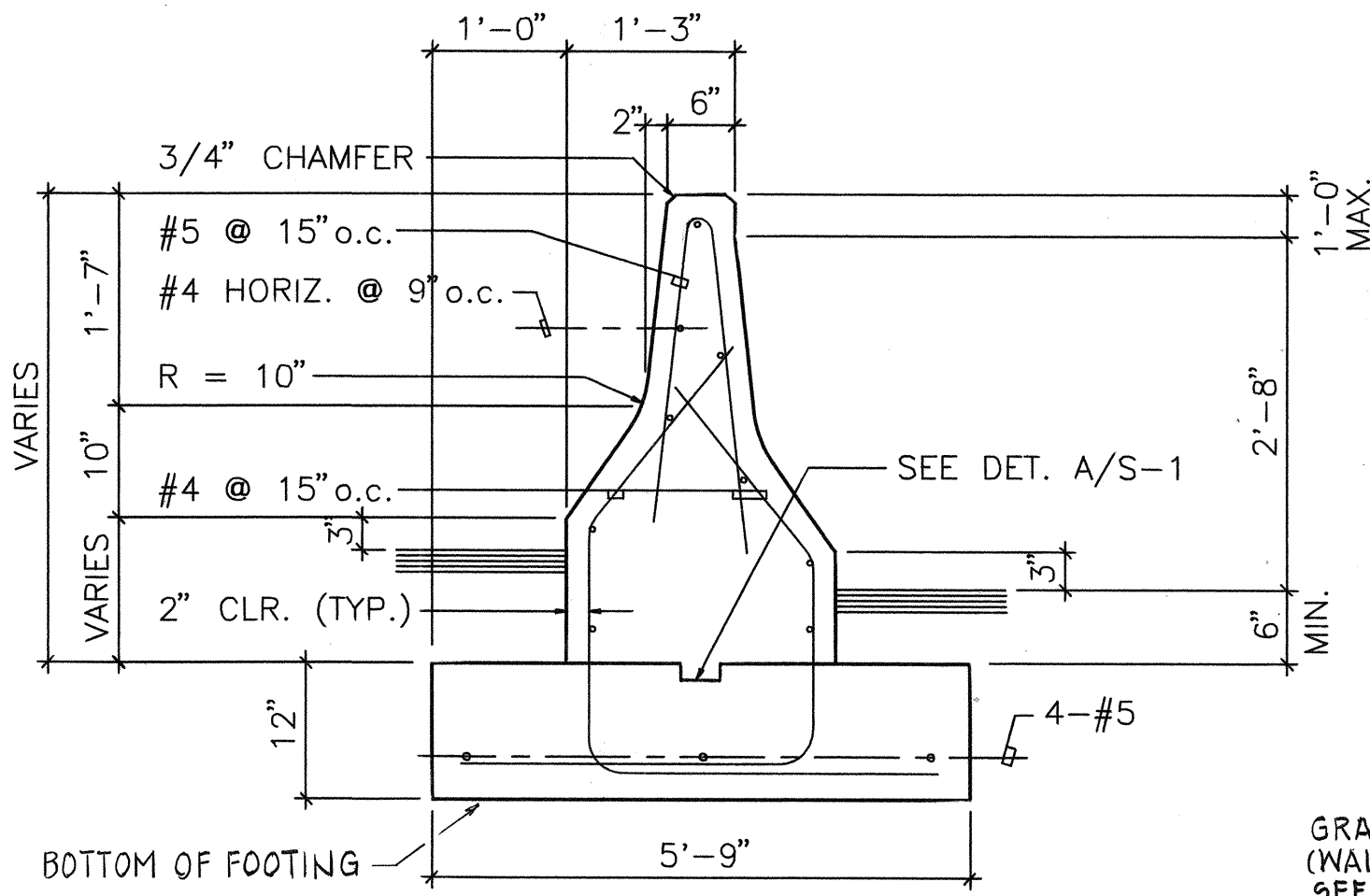
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	25	109

TEMP. REINFORCING SCHEDULE		
MEMBER THICKNESS	TEMP. REINF. (ONE FACE)	TEMP. REINF. (DISTR. E.F.)
4'-4"	#10 @ 12" o.c.	#6 @ 11 1/2" o.c.
3'-8"	#9 @ 11" o.c.	#6 @ 10" o.c.
3'-4"	#9 @ 12" o.c.	#6 @ 11" o.c.
3'-0"	#8 @ 11" o.c.	#6 @ 12" o.c.
2'-8"	#8 @ 12" o.c.	#6 @ 14" o.c.
2'-4"	#8 @ 14" o.c.	#6 @ 16" o.c.
2'-2"	#7 @ 11 1/2" o.c.	#5 @ 12" o.c.
2'-0"	#7 @ 12" o.c.	#5 @ 13" o.c.
1'-10"	#7 @ 13" o.c.	#5 @ 14" o.c.
1'-8"	#6 @ 11" o.c.	#5 @ 15" o.c.
1'-6"	#6 @ 12" o.c.	#5 @ 16" o.c.
1'-4"	#6 @ 14" o.c.	#4 @ 12" o.c.
1'-2"	#5 @ 11" o.c.	#4 @ 14" o.c.
1'-0"	#5 @ 13" o.c.	#4 @ 16" o.c.
0'-10"	#5 @ 15" o.c.	#4 @ 18" o.c.
0'-8"	#4 @ 12" o.c.	#4 @ 18" o.c.
0'-6"	#4 @ 16" o.c.	#4 @ 18" o.c.



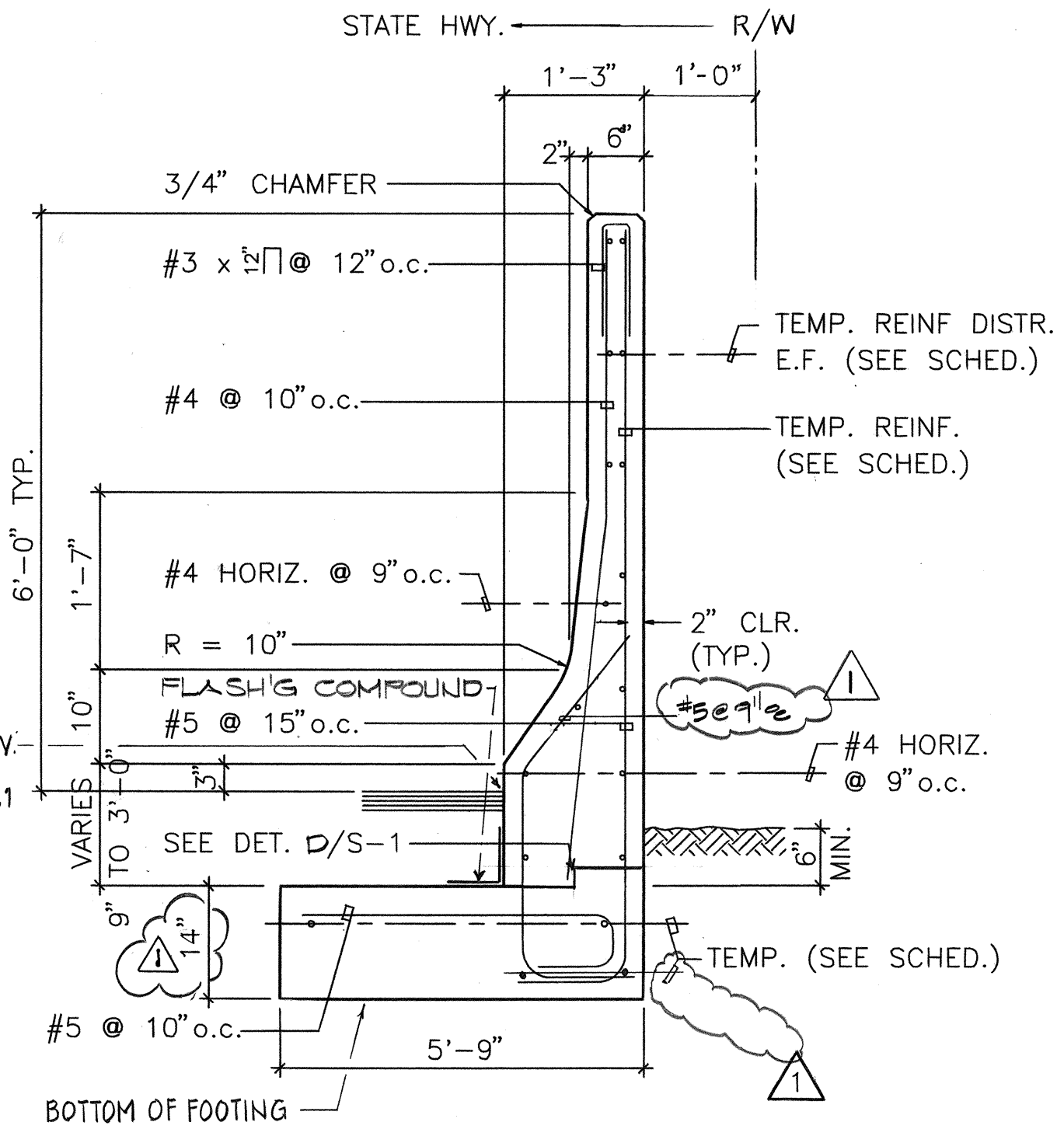
SECTION RW-1
SC: 3/4" = 1'-0"

A
S-2



SECTION RW-2
SC: 3/4" = 1'-0"

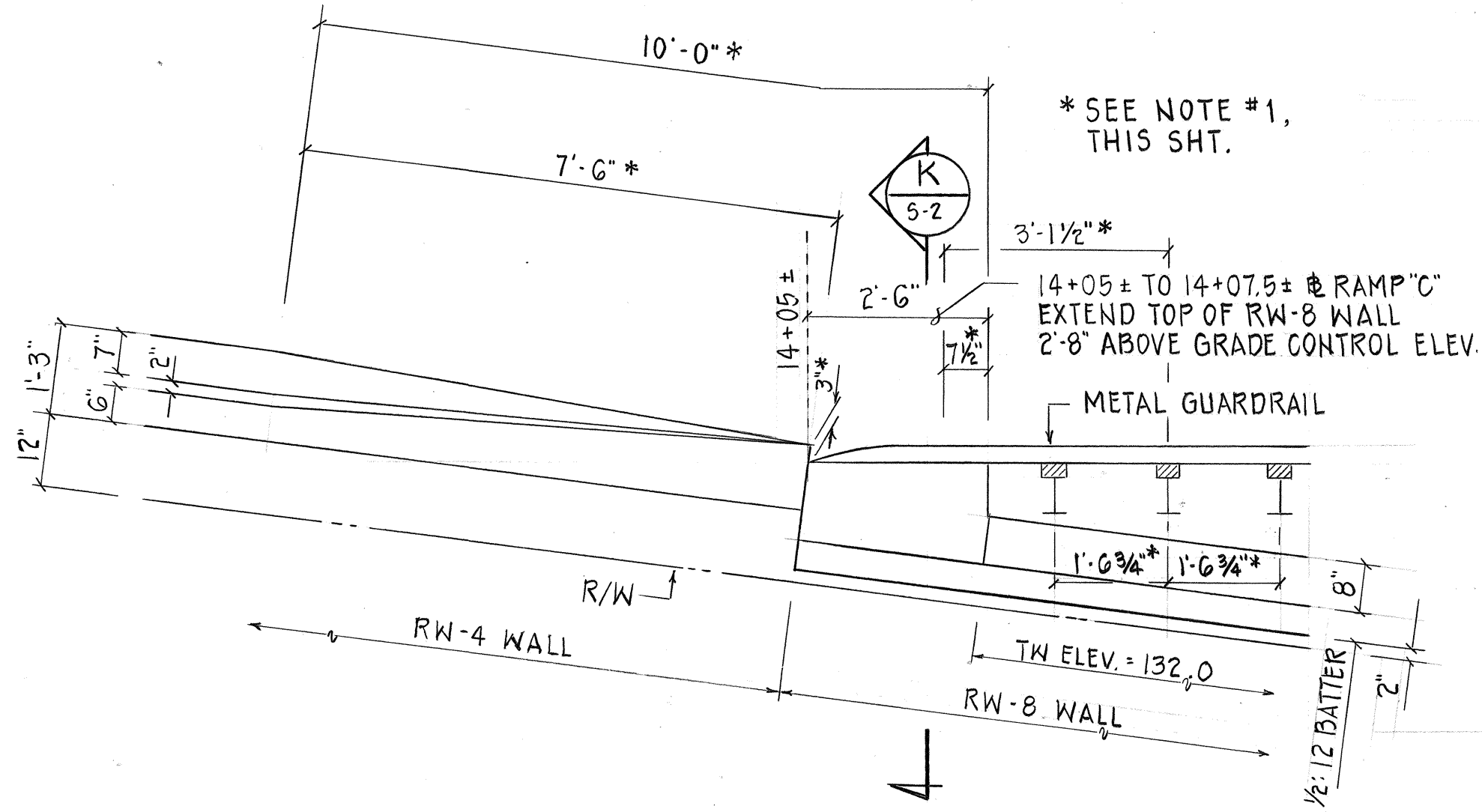
B
S-2



SECTION RW-3
SC: 3/4" = 1'-0"

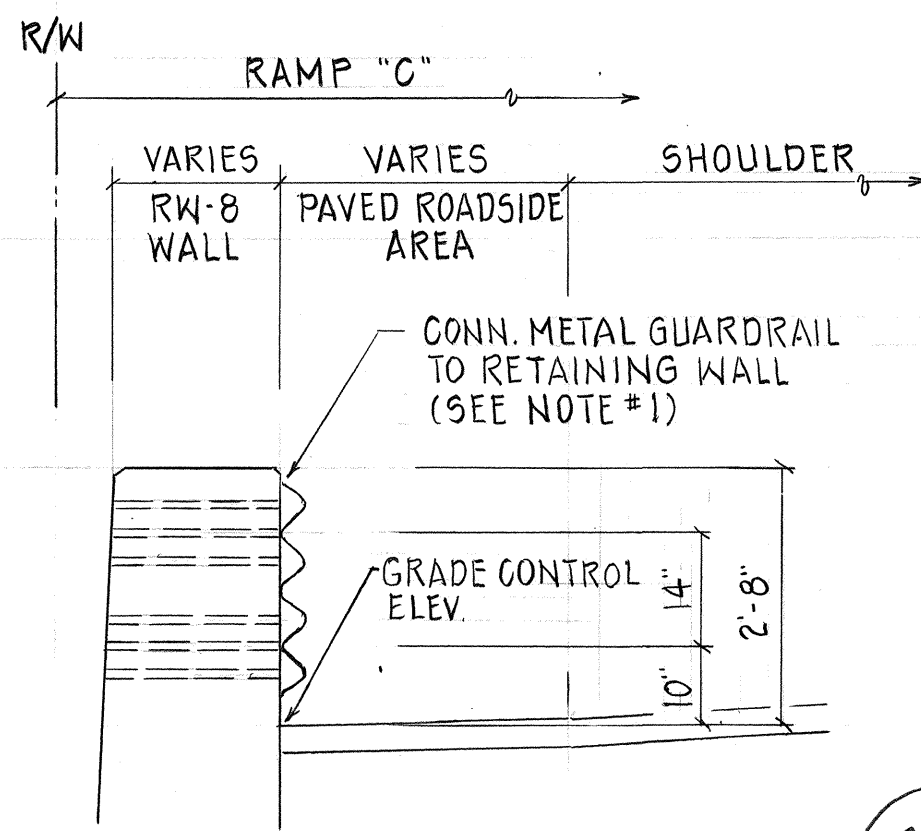
C
S-2

- NOTES:
- FOR ADDITIONAL GUARDRAIL & GUARDRAIL CONNECTION DETAILS, SEE STATE STD. PLAN TE-55.
 - FOR ADDITIONAL RETAINING WALL DETAILS, SEE SECTION RW-8, SHTS. 28 & 29.

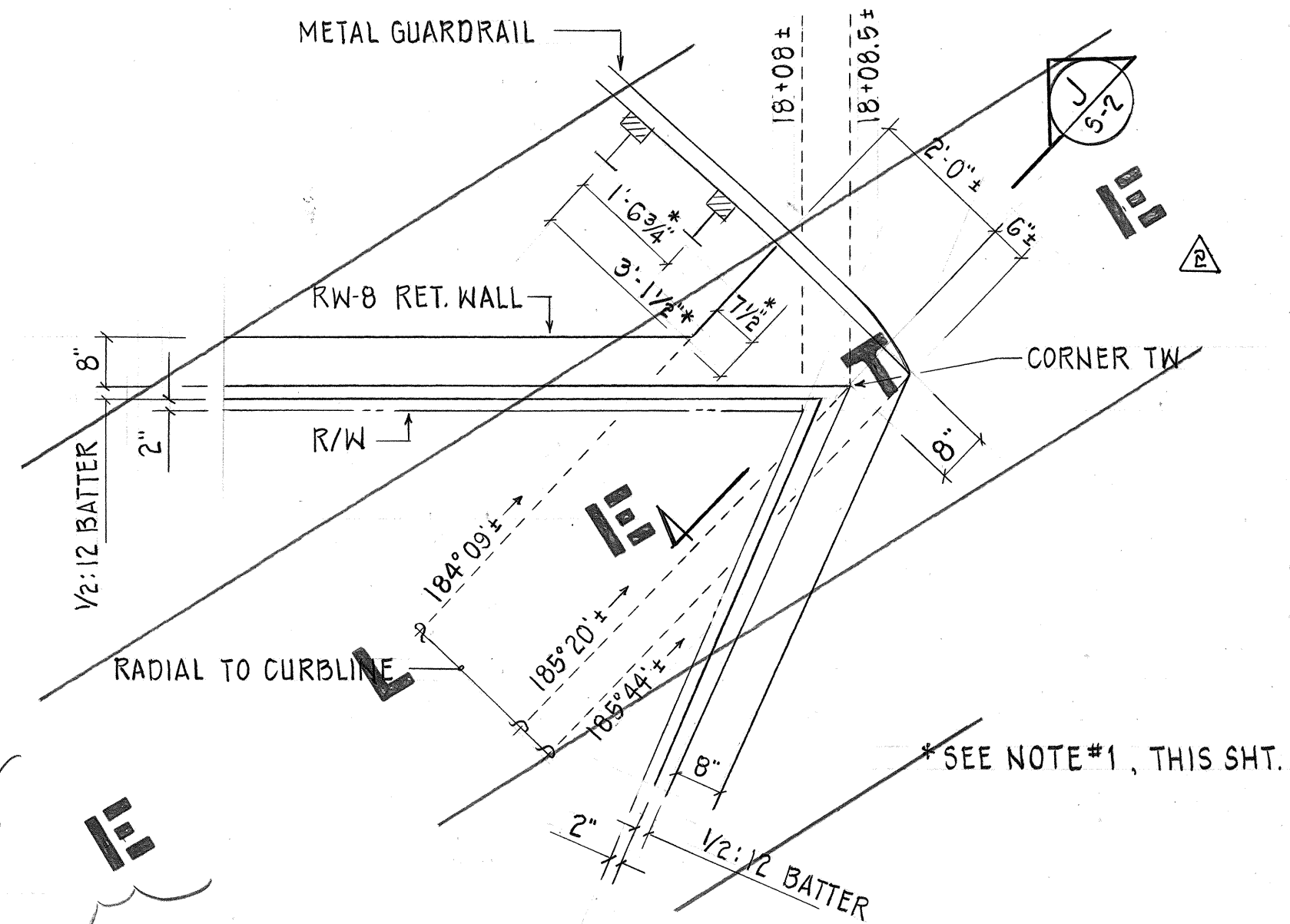


RETAINING WALL RW-4 TO RW-8 CONN. (METAL G.R. CONN.)
SCALE: 1/2" = 1'-0"

RETAINING WALL (RW-4) SCHEDULE							
'H'	'B'	'Tf'	'Tk'	'K'	'x'	'y'	'z'
≤10'-0"	9'-5"	1'-10"	0'-10"	1'-0"	#6 @ 5 1/2" o.c.	#6 @ 11" o.c.	#9 @ 6" o.c.
≤9'-0"	7'-10"	1'-6"	0'-10"	1'-7"	#6 @ 7" o.c.	#6 @ 14" o.c.	#9 @ 8" o.c.
≤8'-0"	6'-6"	1'-2"	0'-10"	2'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#8 @ 9" o.c.
≤7'-0"	5'-10"	1'-2"	0'-10"	1'-8"	#6 @ 9" o.c.	#5 @ 9" o.c.	#8 @ 11" o.c.
≤6'-0"	5'-6"	1'-2"	0'-10"	0'-11"	#6 @ 9" o.c.	#5 @ 9" o.c.	#7 @ 11" o.c.
≤5'-0"	5'-2"	1'-2"	0'-10"	0'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#6 @ 11" o.c.
≤4'-0"	4'-11"	1'-2"	0'-10"	0'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 10" o.c.
≤3'-0"	4'-11"	1'-2"	0'-10"	0'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.
≤2'-0"	4'-11"	1'-2"	0'-10"	0'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.
≤1'-0"	5'-4"	1'-2"	0'-10"	0'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.
≤0'-4"	9'-5"	1'-11"	0'-10"	1'-3"	#6 @ 5 1/2" o.c.	#6 @ 11" o.c.	#9 @ 6" o.c.



SECTION K
(SECTION J SIMILAR)



METAL GUARDRAIL CONNECTION
@ STA. 18+08± RAMP "C"
SCALE: 1/2" = 1'-0"

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
10-21-91	REVISED FOOTING THICKNESS	CPI	



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

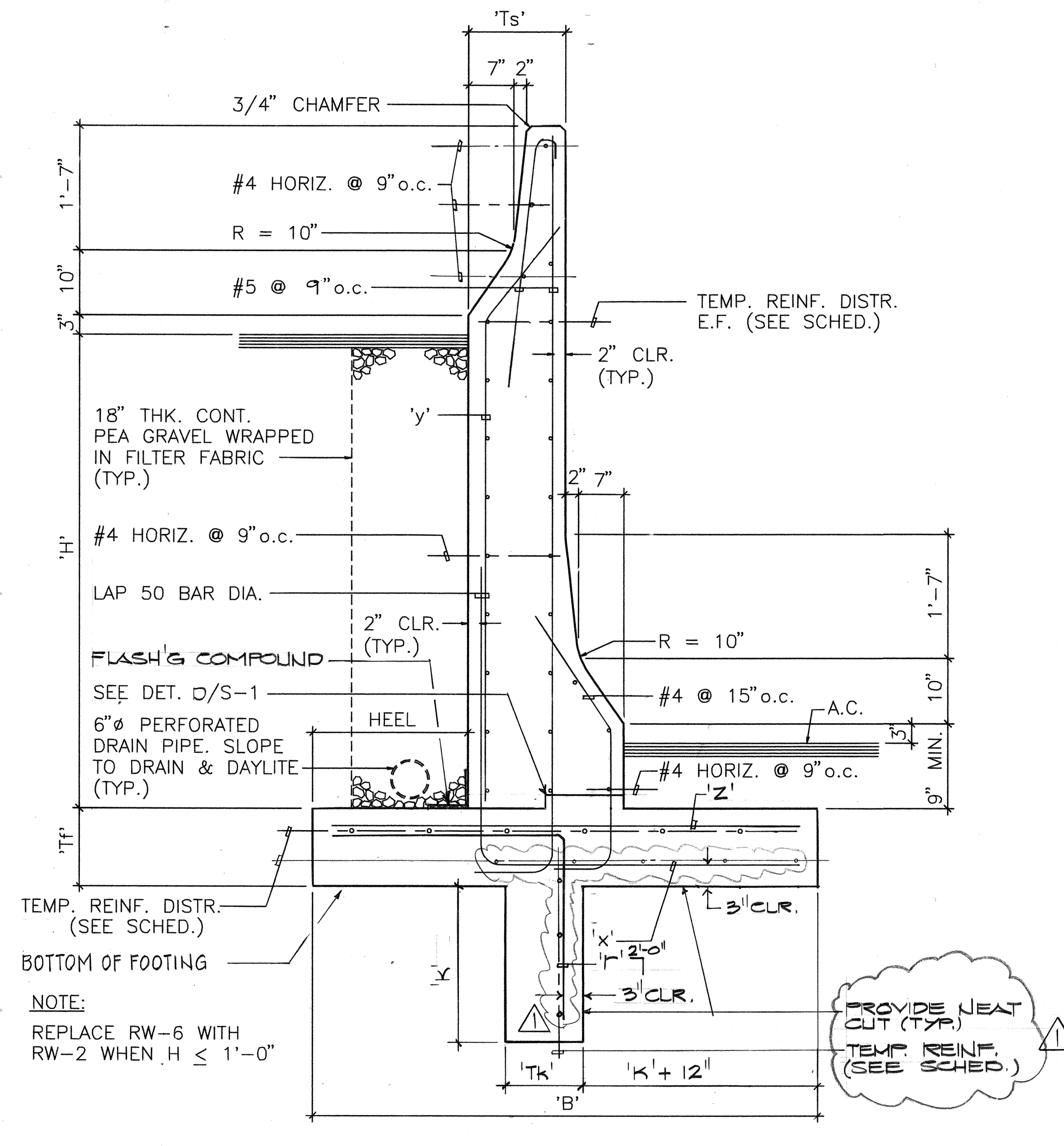
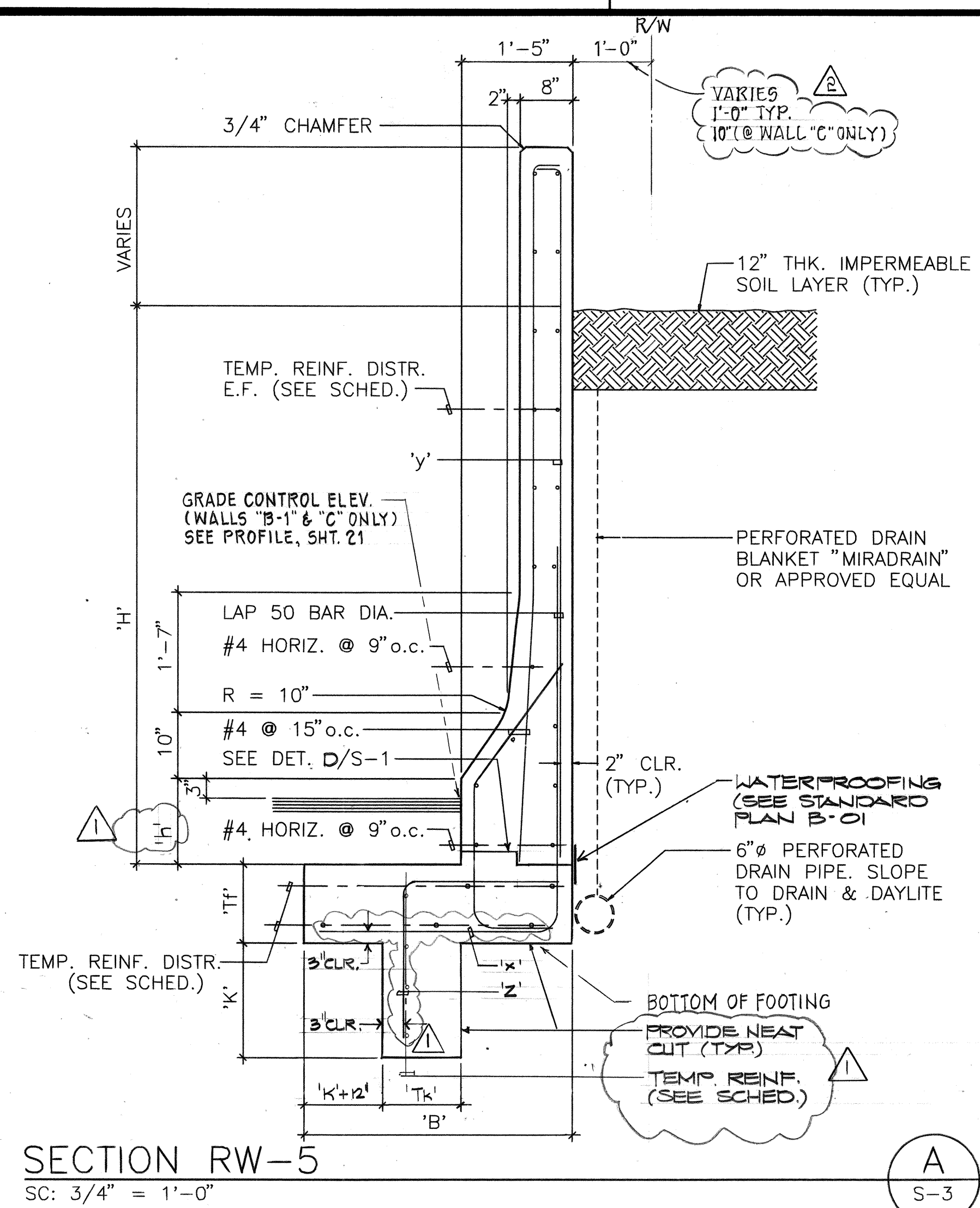
RETAINING WALL DETAILS

INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

SCALE AS NOTED
DATE: AUG., 1991

SHEET NO. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	26	109



RETAINING WALL (RW-5) SCHEDULE

'H'	'B'	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'h'
≤14'-0"	10'-8"	1'-3"	3'-3"	1'-3"	#8 @ 5 1/2" o.c.	#6 @ 5 1/2" o.c.*	#5 @ 10" o.c.	2'-3" MIN.
≤13'-0"	9'-8"	1'-3"	2'-9"	1'-3"	#8 @ 7" o.c.	#6 @ 7" o.c.*	#5 @ 10" o.c.	2'-3" MIN.
≤12'-0"	8'-8"	1'-3"	2'-3"	1'-0"	#8 @ 9" o.c.	#6 @ 9" o.c.*	#5 @ 12" o.c.	2'-3" MIN.
≤11'-0"	7'-8"	1'-2"	1'-10"	1'-0"	#7 @ 8" o.c.	#5 @ 8" o.c.*	#5 @ 12" o.c.	2'-3" MIN.
≤10'-0"	6'-8"	1'-2"	1'-4"	1'-0"	#6 @ 8" o.c.	#5 @ 8" o.c.*	#5 @ 12" o.c.	2'-3" MIN.
≤9'-0"	6'-2"	1'-2"	0'-9"	1'-0"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 12" o.c.	2'-3" MIN.
≤8'-0"	5'-3"	1'-2"	2'-10"	0'-10"	#7 @ 12" o.c.	#4 @ 12" o.c.	#5 @ 15" o.c.	0'-9" MIN.
≤7'-0"	4'-11"	1'-2"	2'-2"	0'-10"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 15" o.c.	0'-9" MIN.
≤6'-0"	4'-4"	1'-2"	1'-6"	0'-10"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 15" o.c.	0'-9" MIN.
≤5'-0"	3'-7"	1'-2"	1'-0"	0'-10"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 15" o.c.	0'-9" MIN.
≤4'-0"	2'-9"	1'-2"	0'-6"	0'-10"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 15" o.c.	0'-9" MIN.
≤3'-0"	1'-11"	1'-2"	0'-0"	0'-10"	#6 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 15" o.c.	0'-9" MIN.

SECTION RW-6
SC: 3/4" = 1'-0"

RETAINING WALL (RW-6) SCHEDULE

'H'	'Ts'	'B'	HEEL	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'r'
≤18'-0"	1'-8"	16'-10"	9'-6"	3'-8"	4'-4"	1'-4"	#8 @ 5 1/2" o.c.	#7 @ 5 1/2" o.c.*	#10 @ 7" o.c.	#6 @ 8" o.c.
≤17'-0"	1'-8"	15'-6"	8'-8"	3'-4"	4'-4"	1'-4"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#10 @ 8" o.c.	#6 @ 8" o.c.
≤16'-0"	1'-8"	14'-4"	8'-0"	3'-0"	4'-4"	1'-4"	#8 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#10 @ 9" o.c.	#6 @ 8" o.c.
≤15'-0"	1'-8"	13'-7"	7'-6"	2'-8"	4'-0"	1'-4"	#8 @ 8" o.c.	#7 @ 8" o.c.*	#10 @ 9 1/2" o.c.	#6 @ 12" o.c.
≤14'-0"	1'-6"	12'-3"	7'-0"	2'-4"	4'-0"	1'-4"	#7 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#10 @ 10" o.c.	#6 @ 12" o.c.
≤13'-0"	1'-6"	10'-9"	6'-6"	2'-0"	4'-0"	1'-4"	#6 @ 6" o.c.	#6 @ 6" o.c.*	#10 @ 11" o.c.	#6 @ 14" o.c.
≤12'-0"	1'-6"	9'-3"	6'-0"	1'-8"	3'-10"	1'-4"	#6 @ 6" o.c.	#6 @ 6" o.c.	#9 @ 9" o.c.	#6 @ 14" o.c.
≤11'-0"	1'-6"	8'-7"	5'-6"	1'-4"	3'-6"	1'-4"	#7 @ 10" o.c.	#6 @ 10" o.c.	#9 @ 9" o.c.	#6 @ 14" o.c.
≤10'-0"	1'-6"	7'-11"	5'-0"	1'-2"	3'-4"	1'-4"	#7 @ 11" o.c.	#6 @ 11" o.c.	#9 @ 10" o.c.	#6 @ 14" o.c.
≤9'-0"	1'-3"	7'-3"	4'-4"	1'-2"	3'-0"	0'-10"	#7 @ 12" o.c.	#6 @ 12" o.c.	#8 @ 10" o.c.	#5 @ 15" o.c.
≤8'-0"	1'-3"	6'-5"	3'-8"	1'-2"	2'-8"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#7 @ 11" o.c.	#5 @ 15" o.c.
≤7'-0"	1'-3"	5'-9"	3'-0"	1'-2"	2'-3"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#6 @ 14" o.c.	#5 @ 15" o.c.
≤6'-0"	1'-3"	5'-1"	2'-4"	1'-2"	2'-0"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 13" o.c.	#5 @ 15" o.c.
≤5'-0"	1'-3"	4'-9"	2'-0"	1'-2"	1'-2"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 13" o.c.	#5 @ 15" o.c.
≤4'-0"	1'-3"	4'-8"	2'-0"	1'-2"	0'-8"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 13" o.c.	#5 @ 15" o.c.
≤3'-0"	1'-3"	4'-8"	2'-0"	1'-2"	0'-0"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 13" o.c.	---
≤2'-0"	1'-3"	4'-10"	2'-0"	1'-2"	0'-0"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 13" o.c.	---



12-9-91

REVISED R/W OFFSET

CP1

10-21-91

ADDED H=13' & H=14' RW-5 WALLS

CP1

REVISION DATE

DESCRIPTION

MADE BY

APPROVED

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

RETAINING WALL DETAILS

INTERSTATE ROUTE H-1

PAIWA STREET INTERCHANGE

PROJECT NO. HIC-01-90

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature

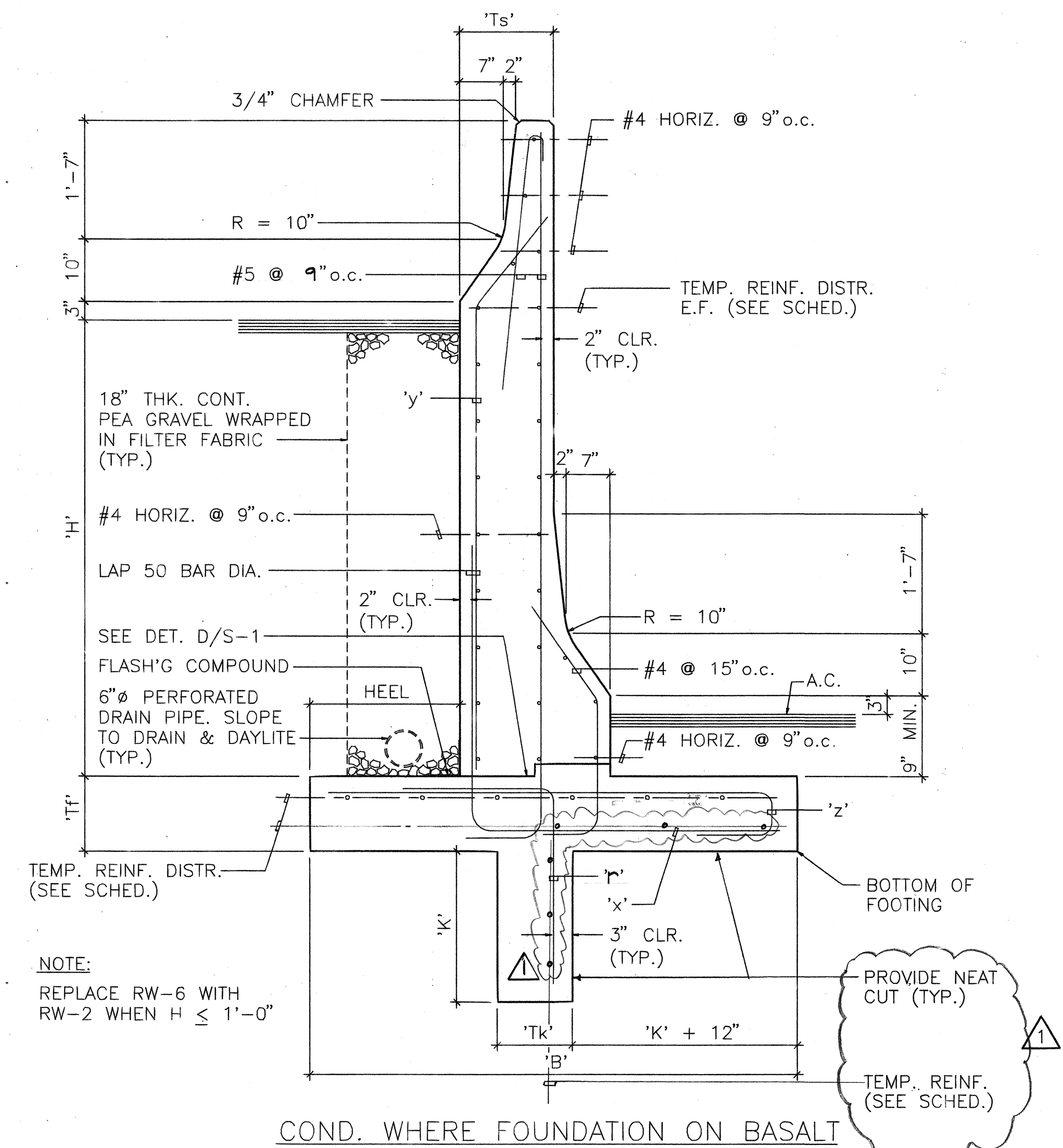
DATE: AUG., 1991

SCALE AS NOTED

SHEET NO. 3 OF 6 SHEETS

DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DESIGNED BY: _____
 QUANTITIES BY: _____
 NO. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	27	109



SECTION RW-6
SC: 3/4" = 1'-0"

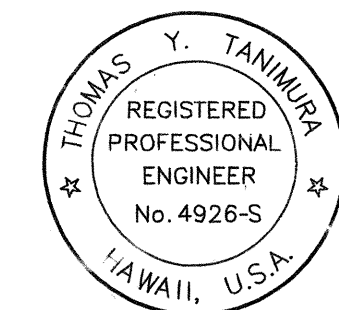
A
S-3A

RETAINING WALL (RW-6) SCHEDULE

'H'	'Ts'	'B'	HEEL	'Tf'	'K'	'TK'	'X'	'Y'	'Z'	'r'
≤18'-0"	1'-8"	11'-10"	6'-8"	2'-6"	2'-10"	1'-4"	#8 @ 5 1/2" o.c.	#7 @ 5 1/2" o.c.*	#9 @ 7 1/2" o.c.	#6 @ 14" o.c.
≤17'-0"	1'-8"	11'-0"	6'-2"	2'-4"	2'-10"	1'-4"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#9 @ 8 1/2" o.c.	#6 @ 14" o.c.
≤16'-0"	1'-8"	10'-6"	5'-10"	2'-0"	2'-10"	1'-4"	#8 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#9 @ 8 1/2" o.c.	#6 @ 14" o.c.
≤15'-0"	1'-8"	9'-8"	5'-4"	1'-9"	2'-10"	1'-4"	#8 @ 8" o.c.	#7 @ 8" o.c.*	#9 @ 9 1/2" o.c.	#6 @ 14" o.c.
≤14'-0"	1'-6"	9'-0"	5'-0"	1'-7"	2'-10"	0'-10"	#7 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#9 @ 10 1/2" o.c.	#6 @ 12" o.c.
≤13'-0"	1'-6"	8'-4"	4'-6"	1'-4"	2'-10"	0'-10"	#6 @ 6" o.c.	#6 @ 6" o.c.*	#9 @ 11" o.c.	#6 @ 12" o.c.
≤12'-0"	1'-6"	7'-8"	4'-0"	1'-2"	2'-10"	0'-10"	#6 @ 6" o.c.	#6 @ 6" o.c.*	#8 @ 10 1/2" o.c.	#6 @ 14" o.c.
≤11'-0"	1'-6"	7'-4"	4'-0"	1'-2"	2'-5"	0'-10"	#7 @ 10" o.c.	#6 @ 10" o.c.	#8 @ 9 1/2" o.c.	#5 @ 15" o.c.
≤10'-0"	1'-6"	6'-10"	3'-8"	1'-2"	2'-2"	0'-10"	#7 @ 11" o.c.	#6 @ 11" o.c.	#8 @ 12" o.c.	#5 @ 15" o.c.
≤9'-0"	1'-3"	6'-4"	3'-4"	1'-2"	1'-11"	0'-10"	#7 @ 12" o.c.	#6 @ 12" o.c.	#7 @ 12" o.c.	#5 @ 15" o.c.
≤8'-0"	1'-3"	5'-8"	3'-0"	1'-2"	1'-9"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#7 @ 13" o.c.	#5 @ 15" o.c.
≤7'-0"	1'-3"	5'-3"	2'-8"	1'-2"	1'-6"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 9 1/2" o.c.	#5 @ 15" o.c.
≤6'-0"	1'-3"	4'-9"	2'-4"	1'-2"	1'-3"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 14" o.c.	#5 @ 15" o.c.
≤5'-0"	1'-3"	4'-7"	2'-0"	1'-2"	1'-0"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 15" o.c.	#5 @ 15" o.c.
≤4'-0"	1'-3"	4'-6"	1'-11"	1'-2"	0'-8"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 15" o.c.	#5 @ 15" o.c.
≤3'-0"	1'-3"	4'-6"	1'-11"	1'-2"	0'-8"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 15" o.c.	#5 @ 15" o.c.
≤2'-0"	1'-3"	4'-10"	2'-0"	1'-2"	0'-6"	0'-10"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 15" o.c.	#5 @ 15" o.c.

* CUT ALTERNATE BARS @ 'H'/2

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
NO.	_____



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Thomas Y. Taniguchi
Signature

10-21-91	REVISED FOOTING THICKNESS	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

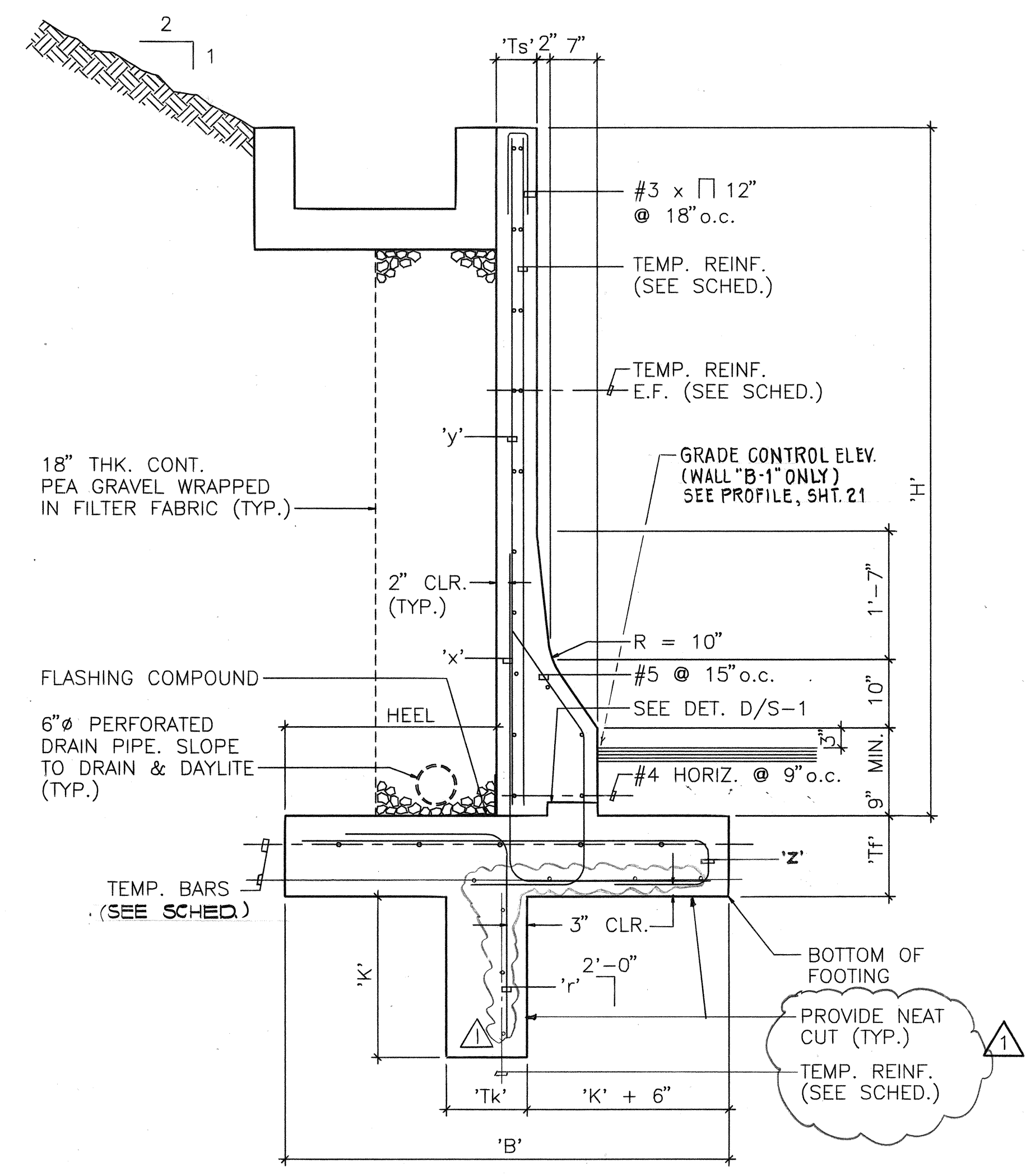
RETAINING WALL DETAILS

INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

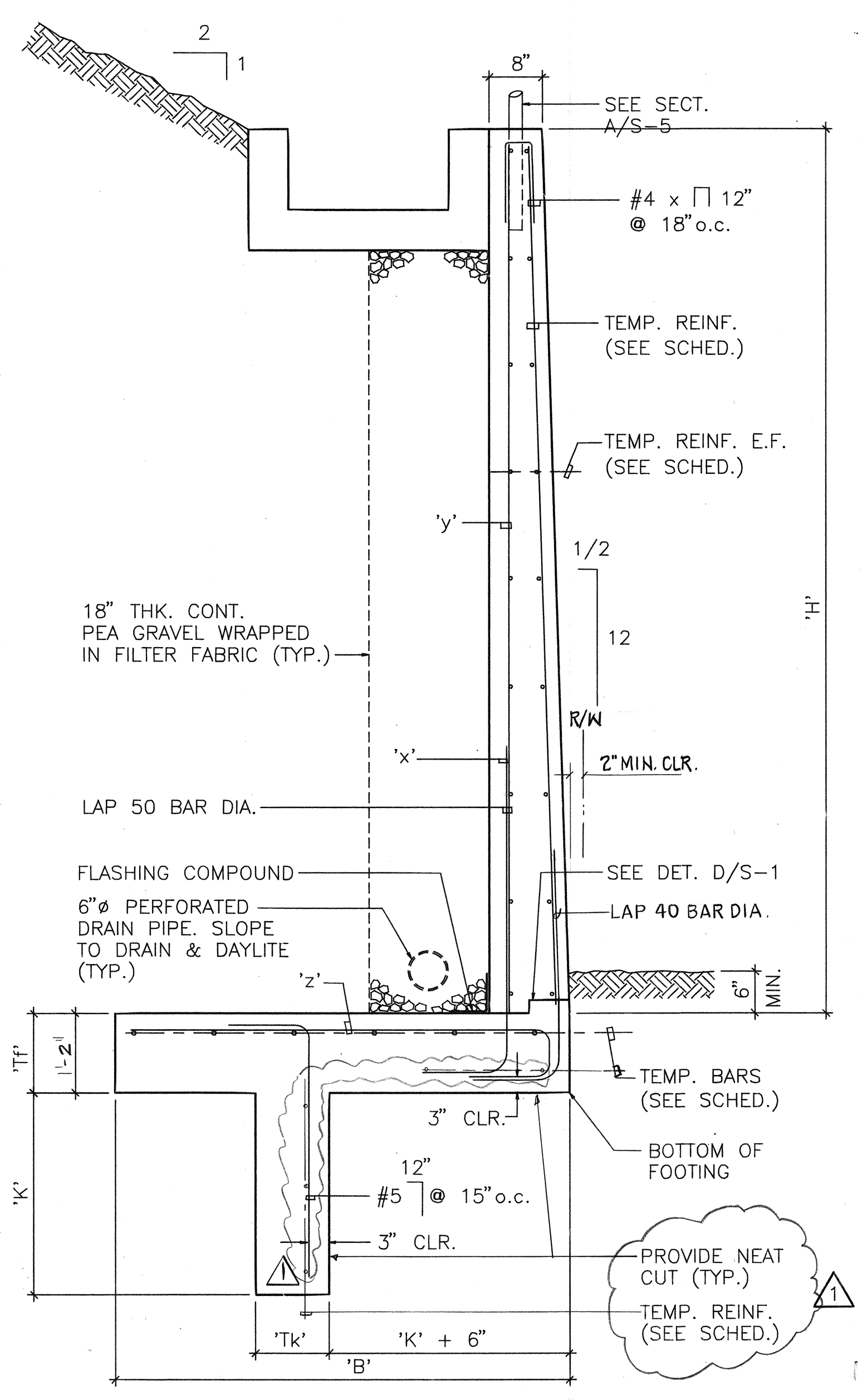
SCALE AS NOTED DATE: AUG., 1991

SHEET No. 4 OF 6 SHEETS

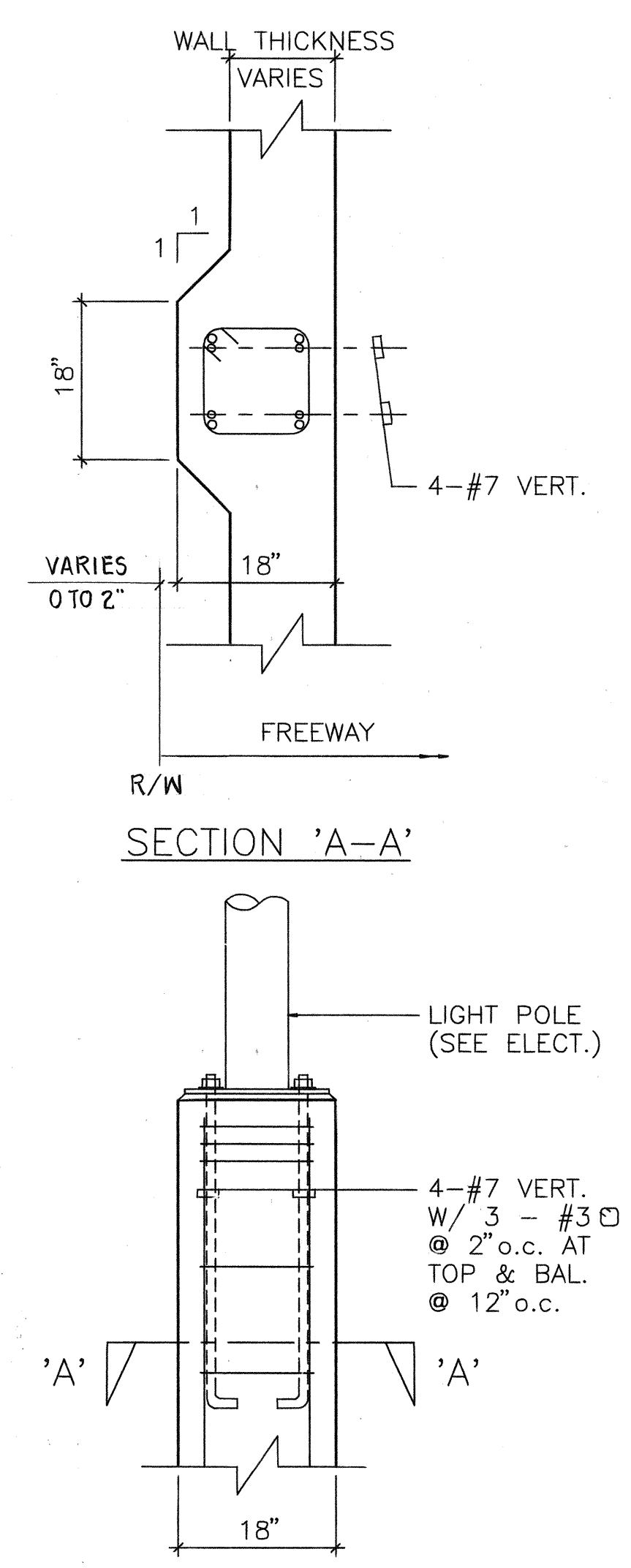
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	28	109



SECTION RW-7 (WITH ON-SITE BACKFILL)
SC: 3/4" = 1'-0"



SECTION RW-8 (WITH ON-SITE BACKFILL)
SC: 3/4" = 1'-0"



COND. AT LIGHT POLE
SC: 3/4" = 1'-0"

RETAINING WALL (RW-7) SCHEDULE

'H'	'TS'	'B'	HEEL	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'r'
≤16'-0"	1'-2"	11'-0"	4'-0"	2'-2"	7'-1"	2'-0"	#9 @ 7" o.c.	#8 @ 7" o.c.*	#9 @ 9 1/2" o.c.	#7 @ 5" o.c.
≤15'-0"	1'-2"	10'-6"	4'-0"	2'-0"	6'-6"	2'-0"	#9 @ 8 1/2" o.c.	#8 @ 8 1/2" o.c.*	#9 @ 10" o.c.	#7 @ 7" o.c.
≤14'-0"	1'-2"	9'-1"	4'-0"	1'-10"	6'-0"	2'-0"	#8 @ 8 1/2" o.c.	#7 @ 8 1/2" o.c.*	#9 @ 10" o.c.	#7 @ 9" o.c.
≤13'-0"	1'-0"	8'-5"	4'-0"	1'-8"	5'-5"	2'-0"	#7 @ 6 1/2" o.c.	#6 @ 6 1/2" o.c.*	#9 @ 10" o.c.	#6 @ 9" o.c.
≤12'-0"	1'-0"	7'-1"	3'-0"	1'-4"	4'-10"	1'-6"	#8 @ 12" o.c.	#6 @ 12" o.c.	#8 @ 10 1/2" o.c.	#6 @ 9" o.c.
≤11'-0"	1'-0"	6'-10"	3'-0"	1'-2"	4'-2"	1'-6"	#8 @ 16" o.c.	#6 @ 16" o.c.	#8 @ 10 1/2" o.c.	#6 @ 12" o.c.
≤10'-0"	0'-10"	6'-0"	3'-0"	1'-2"	3'-7"	1'-6"	#6 @ 10 1/2" o.c.	#5 @ 10 1/2" o.c.	#8 @ 11 1/2" o.c.	#6 @ 12" o.c.
≤9'-0"	0'-10"	5'-3"	3'-0"	1'-2"	3'-1"	0'-10"	#6 @ 11 1/2" o.c.	#5 @ 11 1/2" o.c.	#8 @ 11 1/2" o.c.	#5 @ 10" o.c.
≤8'-0"	0'-8"	4'-10"	3'-0"	1'-2"	2'-4"	0'-10"	#6 @ 12" o.c.	#4 @ 12" o.c.	#8 @ 13" o.c.	#5 @ 15" o.c.
≤7'-0"	0'-8"	4'-10"	3'-0"	1'-2"	1'-6"	0'-10"	#6 @ 12" o.c.	#4 @ 12" o.c.	#7 @ 12" o.c.	#5 @ 15" o.c.
≤6'-0"	0'-6"	4'-3"	2'-6"	1'-2"	1'-0"	0'-10"	#6 @ 12" o.c.	#4 @ 12" o.c.	#6 @ 14" o.c.	#5 @ 15" o.c.
≤5'-0"	0'-6"	4'-1"	2'-4"	1'-2"	0'-0"	0'-0"	#6 @ 12" o.c.	#4 @ 12" o.c.	#5 @ 12" o.c.	-
≤4'-0"	0'-6"	3'-0"	1'-4"	1'-2"	0'-0"	0'-0"	#6 @ 12" o.c.	#4 @ 12" o.c.	#5 @ 12" o.c.	-

* CUT ALTERNATE BARS 'H'/2

RETAINING WALL (RW-8) SCHEDULE

'H'	'B'	'Tf'	'K'	'Tk'	'x'	'y'	'z'
≤9'-0"	5'-7"	1'-2"	2'-4"	1'-0"	#5 @ 12" o.c.	#5 @ 12" o.c.	#9 @ 8" o.c.
≤8'-0"	4'-4"	1'-2"	1'-11"	1'-0"	#5 @ 13" o.c.	#5 @ 13" o.c.	#8 @ 12" o.c.
≤7'-0"	4'-8"	1'-2"	2'-9"	0'-10"	#5 @ 12" o.c.	#5 @ 12" o.c.	#6 @ 6" o.c.
≤6'-0"	3'-11"	1'-2"	2'-0"	0'-10"	#5 @ 14" o.c.	#5 @ 14" o.c.	#6 @ 10 1/2" o.c.
≤5'-0"	3'-5"	1'-2"	1'-4"	0'-10"	#5 @ 14" o.c.	#5 @ 14" o.c.	#5 @ 12" o.c.
≤4'-0"	2'-10"	1'-2"	0'-10"	0'-10"	#5 @ 14" o.c.	#5 @ 14" o.c.	#5 @ 12" o.c.
≤3'-0"	2'-4"	1'-2"	0'-0"	0'-0"	#5 @ 14" o.c.	#5 @ 14" o.c.	#5 @ 12" o.c.

*USE SELECT BACKFILL (SEE B/S-5 FOR PLACEMENT OF BACKFILL)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

RETAINING WALL DETAILS

INTERSTATE ROUTE H-1

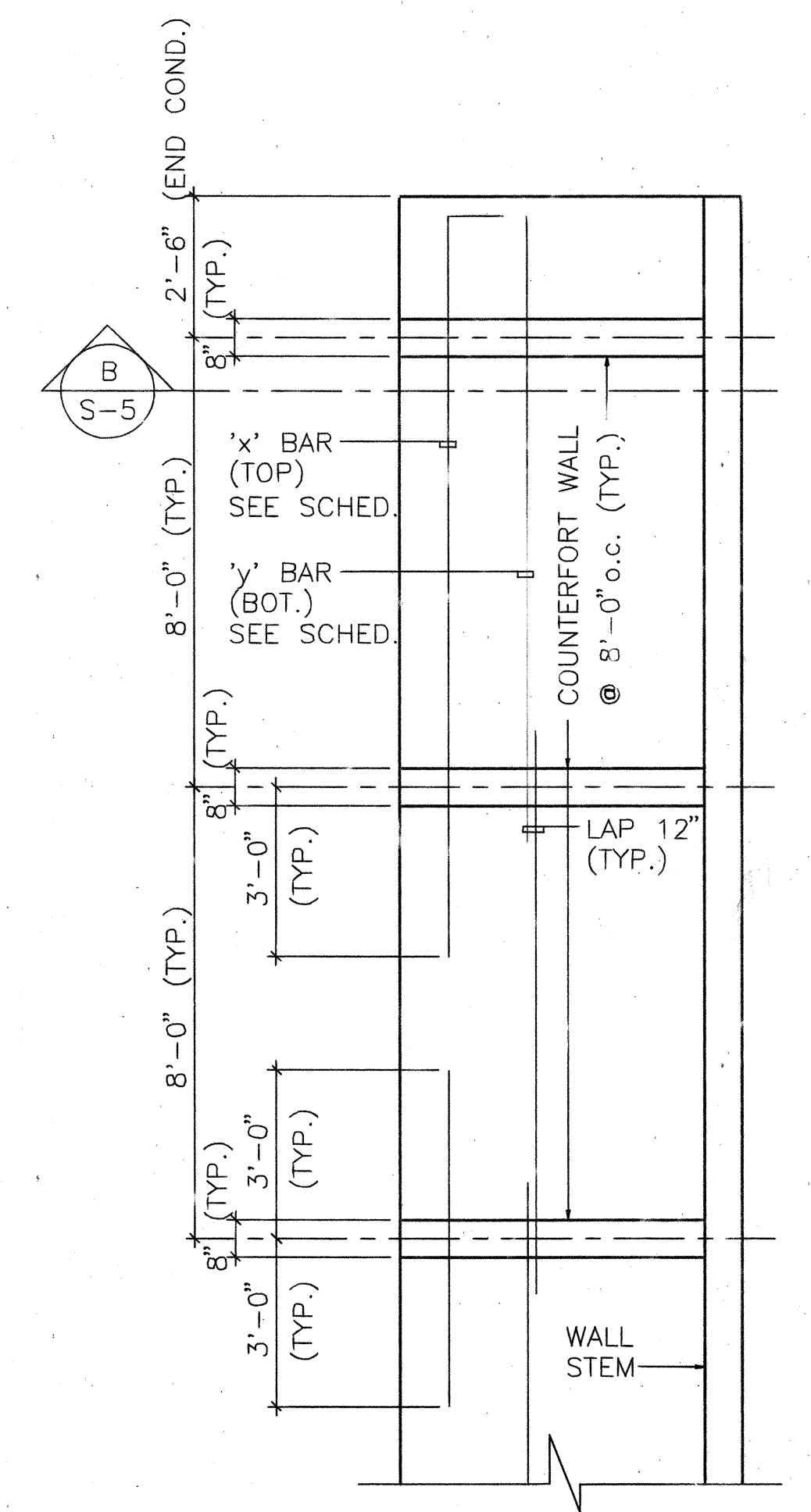
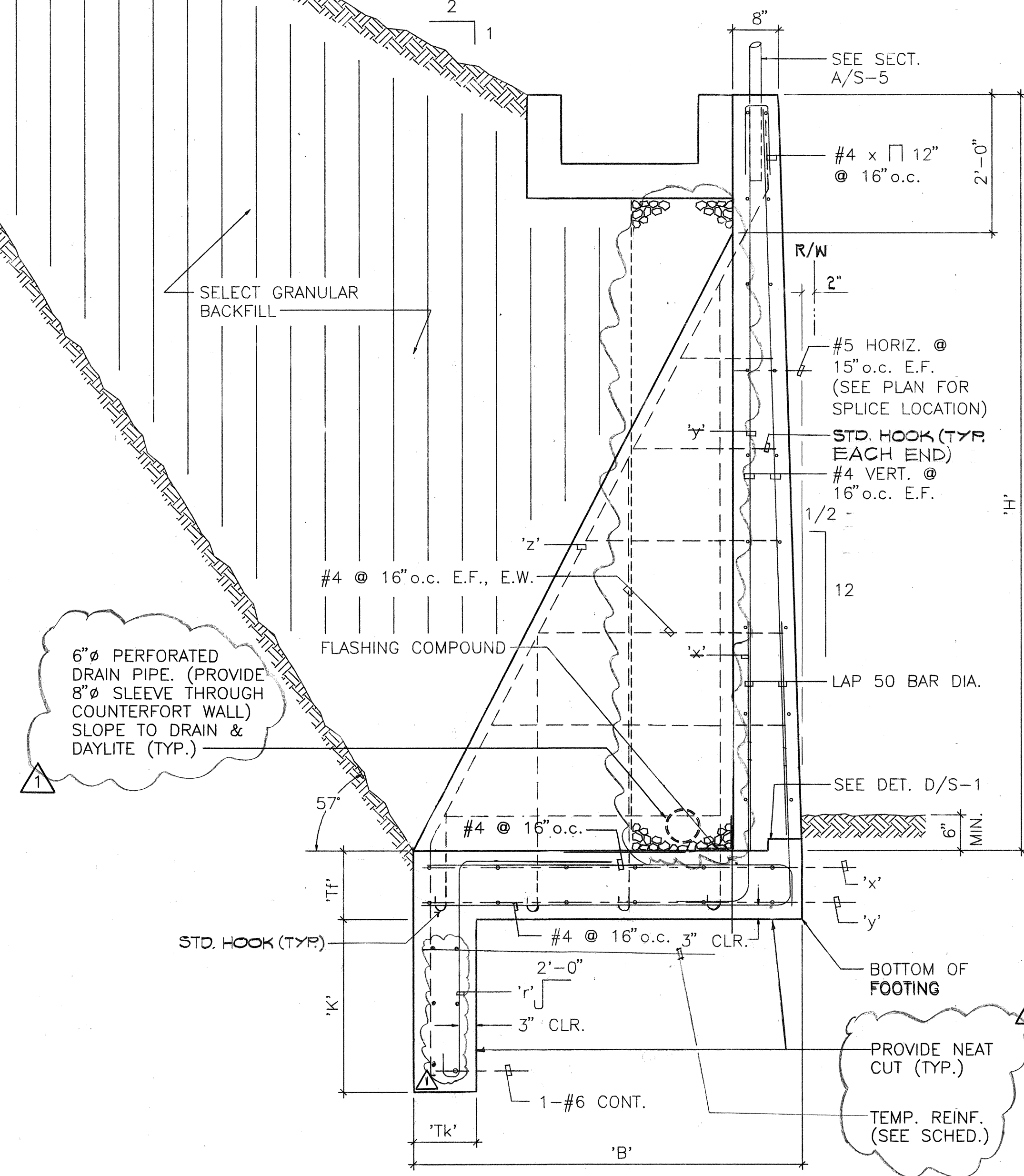
PAIWA STREET INTERCHANGE

PROJECT NO. HIC-01-90

SCALE AS NOTED

DATE: AUG., 1991

RETAINING WALL (RW-8) SCHEDULE								
'H'	'B'	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'r'
≤14'-0"	13'-9"	{1'-2"	4'-4"	1'-0"	#7 @ 6" o.c.	#7 @ 6" o.c.	2-#6	#5 @ 7" o.c.
≤13'-0"	11'-3"	{1'-2"	4'-1"	1'-0"	#7 @ 7" o.c.	#7 @ 7" o.c.	2-#6	#5 @ 8" o.c.
≤12'-0"	9'-2"	{1'-2"	3'-9"	1'-0"	#7 @ 7" o.c.	#7 @ 8" o.c.	2-#6	#5 @ 11" o.c.
≤11'-0"	7'-7"	{1'-2"	3'-5"	1'-0"	#7 @ 8" o.c.	#7 @ 9" o.c.	2-#6	#5 @ 12" o.c.
≤10'-0"	6'-1"	{1'-2"	3'-0"	1'-0"	#7 @ 9" o.c.	#7 @ 9" o.c.	2-#6	#5 @ 12" o.c.



PART. PLAN OF
COUNTERFORT WALL
SC: 3/8" = 1'-0"

RETAINING WALL (RW-7) SCHEDULE									
'H'	'TS'	'B'	HEEL	'Tf'	'K'	'Tk'	'x'	'y'	'z'
≤16'-0"	1'-2"	9'-9"	4'-0"	2'-0"	4'-10"	1'-4"	#8 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.	#9 @ 10 1/2" o.c.
≤15'-0"	1'-2"	9'-3"	4'-0"	2'-0"	4'-3"	1'-4"	#8 @ 9 1/2" o.c.	#7 @ 9 1/2" o.c.	#9 @ 11 1/2" o.c.
≤14'-0"	1'-2"	8'-2"	3'-6"	1'-8"	3'-11"	1'-0"	#7 @ 8" o.c.	#6 @ 8" o.c.	#9 @ 13" o.c.
≤13'-0"	1'-0"	7'-10"	3'-6"	1'-6"	3'-4"	1'-0"	#7 @ 10" o.c.	#6 @ 10" o.c.	#8 @ 10" o.c.
≤12'-0"	1'-0"	6'-7"	3'-0"	1'-2"	3'-1"	0'-10"	#6 @ 10" o.c.	#5 @ 10" o.c.	#8 @ 10" o.c.
≤11'-0"	1'-0"	6'-4"	3'-0"	1'-2"	2'-6"	0'-10"	#6 @ 10 1/2" o.c.	#5 @ 10 1/2" o.c.	#8 @ 10" o.c.
≤10'-0"	0'-10"	5'-9"	3'-0"	1'-2"	1'-11"	0'-10"	#7 @ 15" o.c.	#5 @ 15" o.c.	#8 @ 11 1/2" o.c.
≤9'-0"	0'-8"	5'-3"	3'-0"	1'-2"	1'-4"	0'-10"	#7 @ 16" o.c.	#5 @ 16" o.c.	#8 @ 13" o.c.
≤8'-0"	0'-8"	4'-10"	3'-0"	1'-2"	0'-7"	0'-10"	#7 @ 17" o.c.	#5 @ 17" o.c.	#7 @ 11 1/2" o.c.

SECTION RW-8 (COUNTERFORT WALL W/ SELECT BACKFILL)
SC: 3/4" = 1'-0"

10-21-91	REVISED FOOTING THICKNESS	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RETAINING WALL DETAILS

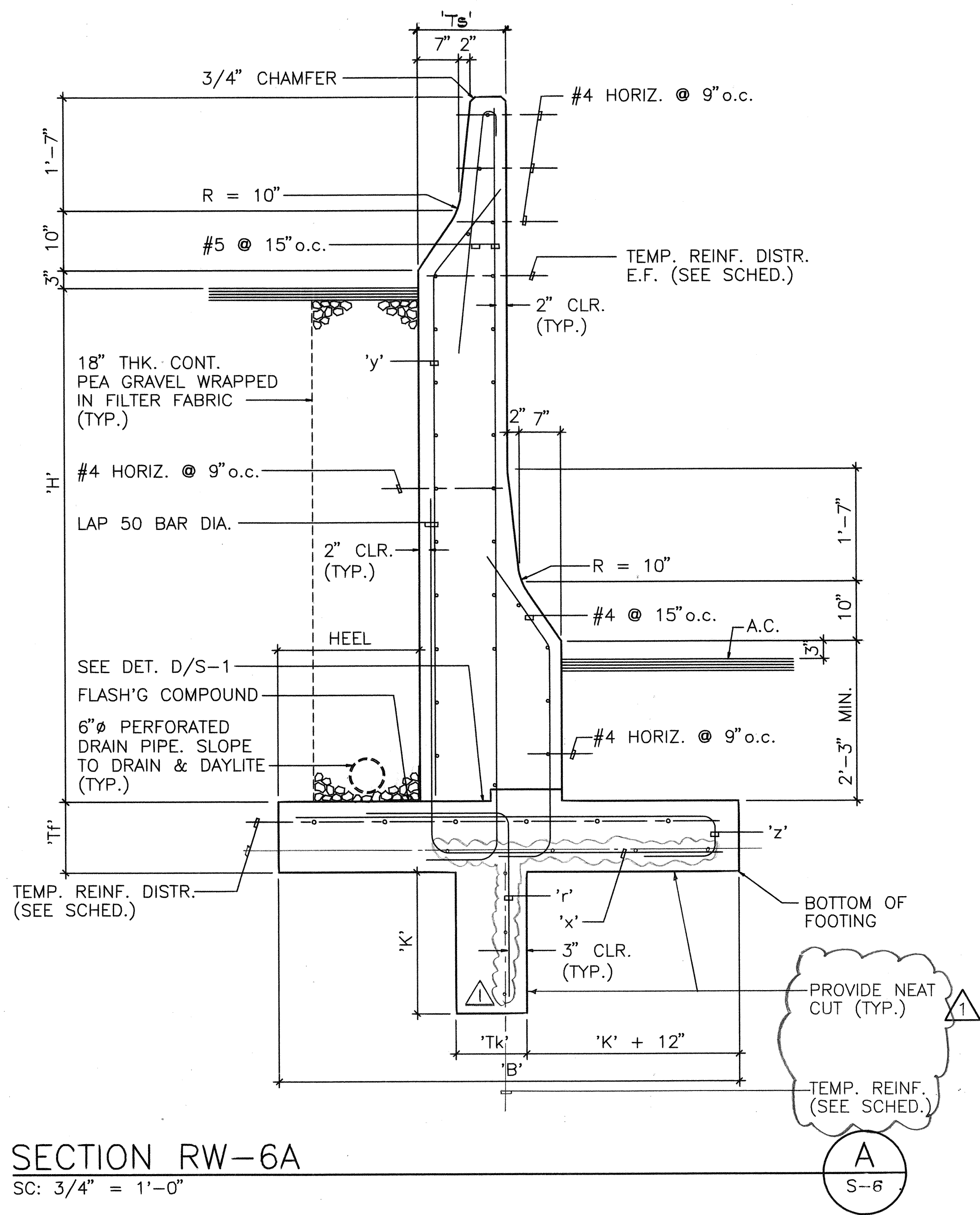
INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIG-01-90

SCALE AS NOTED DATE: AUG., 1991

SHEET NO. 6 OF 6 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC-01-90	1991	295-1	109



RETAINING WALL (RW-6A) SCHEDULE										
'H'	'Ts'	'B'	HEEL	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'r'
≤20'-0"	2'-0"	16'-0"	6'-6"	2'-8"	4'-7"	1'-4"	#9 @ 6" o.c.	#8 @ 6" o.c.*	#10 @ 10" o.c.	#7 @ 8" o.c.
≤19'-0"	2'-0"	15'-4"	6'-6"	2'-8"	4'-1"	1'-4"	#9 @ 7" o.c.	#8 @ 7" o.c.*	#10 @ 10" o.c.	#7 @ 10" o.c.
≤18'-0"	1'-10"	14'-6"	6'-4"	2'-6"	3'-8"	1'-4"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#9 @ 8" o.c.	#6 @ 10" o.c.
≤17'-0"	1'-10"	13'-4"	6'-0"	2'-4"	3'-5"	1'-4"	#8 @ 6 1/2" o.c.	#7 @ 6 1/2" o.c.*	#9 @ 9" o.c.	#6 @ 12" o.c.
≤16'-0"	1'-8"	12'-0"	5'-4"	2'-0"	3'-5"	1'-4"	#8 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#9 @ 10 1/2" o.c.	#6 @ 13" o.c.
≤15'-0"	1'-6"	10'-10"	4'-8"	1'-8"	3'-5"	1'-4"	#8 @ 8" o.c.	#7 @ 8" o.c.*	#9 @ 12" o.c.	#6 @ 13" o.c.
≤14'-0"	1'-6"	9'-8"	4'-0"	1'-6"	3'-2"	1'-4"	#7 @ 7" o.c.	#6 @ 7" o.c.	#8 @ 12" o.c.	#6 @ 13" o.c.
≤13'-0"	1'-3"	8'-6"	3'-6"	1'-2"	3'-2"	1'-4"	#7 @ 6 1/2" o.c.	#6 @ 6 1/2" o.c.	#8 @ 12" o.c.	#6 @ 13" o.c.
≤12'-0"	1'-3"	7'-9"	3'-0"	1'-2"	2'-10"	1'-0"	#7 @ 7 1/2" o.c.	#6 @ 7 1/2" o.c.	#7 @ 13" o.c.	#5 @ 11" o.c.
≤11'-0"	1'-3"	7'-6"	3'-0"	1'-2"	2'-3"	1'-0"	#7 @ 8" o.c.	#7 @ 8" o.c.	#7 @ 12" o.c.	#5 @ 12" o.c.
≤10'-0"	1'-3"	6'-8"	2'-8"	1'-2"	2'-1"	1'-0"	#7 @ 8 1/2" o.c.	#7 @ 8 1/2" o.c.	#6 @ 12" o.c.	#5 @ 12" o.c.
≤9'-0"	1'-3"	6'-3"	2'-6"	1'-2"	1'-8"	1'-0"	#6 @ 8" o.c.	#5 @ 8" o.c.	#6 @ 15" o.c.	#5 @ 12" o.c.
≤8'-0"	1'-3"	5'-9"	2'-3"	1'-2"	1'-2"	1'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.
≤7'-0"	1'-3"	5'-6"	2'-0"	1'-2"	0'-8"	1'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.
≤6'-0"	1'-3"	5'-1"	1'-10"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤5'-0"	1'-3"	4'-11"	1'-10"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤4'-0"	1'-3"	4'-9"	1'-9"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	

* CUT ALTERNATE BARS @ 'H'/2

RETAINING WALL (RW-6A) SCHEDULE (COND. WHERE FOUNDATION ON BASALT)										
'H'	'Ts'	'B'	HEEL	'Tf'	'K'	'Tk'	'x'	'y'	'z'	'r'
≤20'-0"	2'-0"	13'-0"	5'-8"	2'-6"	1'-3"	1'-0"	#9 @ 6" o.c.	#8 @ 6" o.c.*	#9 @ 9" o.c.	#5 @ 12" o.c.
≤19'-0"	2'-0"	12'-0"	5'-0"	2'-4"	1'-5"	1'-0"	#9 @ 7" o.c.	#8 @ 7" o.c.*	#9 @ 12" o.c.	#5 @ 12" o.c.
≤18'-0"	1'-10"	11'-2"	4'-8"	2'-0"	1'-6"	1'-0"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#9 @ 12" o.c.	#5 @ 12" o.c.
≤17'-0"	1'-10"	10'-6"	4'-4"	1'-10"	1'-6"	1'-0"	#8 @ 6 1/2" o.c.	#7 @ 6 1/2" o.c.*	#8 @ 10 1/2" o.c.	#5 @ 12" o.c.
≤16'-0"	1'-8"	9'-8"	4'-0"	1'-8"	1'-6"	1'-0"	#8 @ 7 1/2" o.c.	#7 @ 7 1/2" o.c.*	#8 @ 12" o.c.	#5 @ 12" o.c.
≤15'-0"	1'-6"	9'-0"	3'-8"	1'-6"	1'-4"	1'-0"	#8 @ 8" o.c.	#7 @ 8" o.c.*	#8 @ 13" o.c.	#5 @ 12" o.c.
≤14'-0"	1'-6"	8'-2"	3'-3"	1'-6"	1'-2"	1'-0"	#7 @ 7" o.c.	#6 @ 7" o.c.	#7 @ 13" o.c.	#5 @ 12" o.c.
≤13'-0"	1'-3"	7'-8"	3'-1"	1'-4"	1'-2"	1'-0"	#7 @ 7" o.c.	#6 @ 7" o.c.	#7 @ 14" o.c.	#5 @ 12" o.c.
≤12'-0"	1'-3"	7'-2"	2'-10"	1'-4"	0'-9"	1'-0"	#7 @ 8 1/2" o.c.	#6 @ 8 1/2" o.c.	#6 @ 13" o.c.	#5 @ 12" o.c.
≤11'-0"	1'-3"	6'-11"	2'-8"	1'-2"	0'-9"	1'-0"	#7 @ 9" o.c.	#6 @ 9" o.c.	#6 @ 13" o.c.	#5 @ 12" o.c.
≤10'-0"	1'-3"	6'-3"	2'-6"	1'-2"	0'-6"	1'-0"	#7 @ 9 1/2" o.c.	#5 @ 9 1/2" o.c.	#6 @ 15" o.c.	#5 @ 12" o.c.
≤9'-0"	1'-3"	6'-3"	2'-6"	1'-2"	0'-0"	0'-0"	#6 @ 8" o.c.	#5 @ 8" o.c.	#5 @ 11" o.c.	
≤8'-0"	1'-3"	5'-9"	2'-3"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤7'-0"	1'-3"	5'-3"	2'-0"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤6'-0"	1'-3"	4'-11"	1'-10"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤5'-0"	1'-3"	4'-9"	1'-9"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	
≤4'-0"	1'-3"	4'-8"	1'-8"	1'-2"	0'-0"	0'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.	#5 @ 12" o.c.	

* CUT ALTERNATE BARS @ 'H'/2

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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
TY Tanimura
Signature

10-21-91	REVISED FOOTING THICKNESS	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED

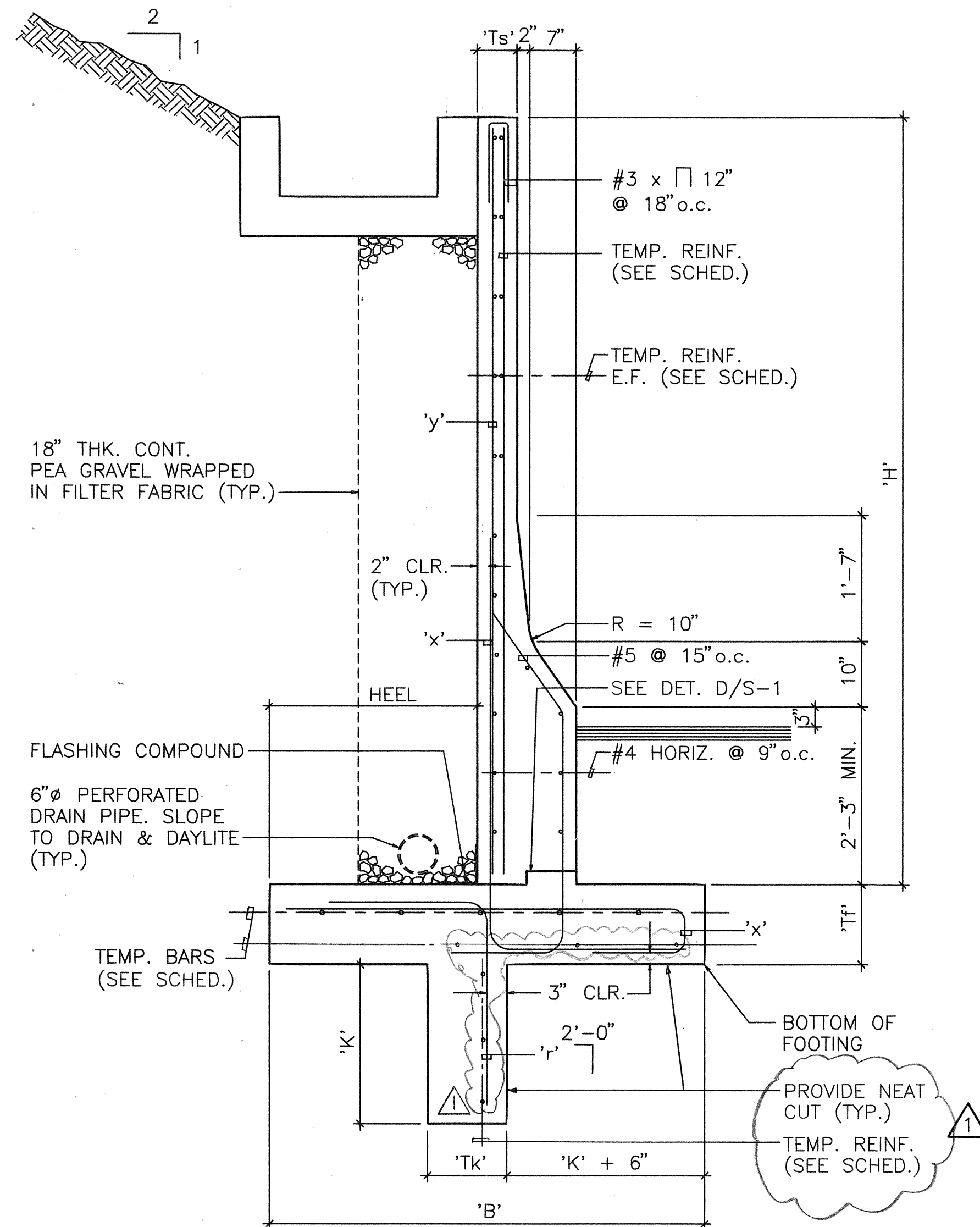
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RETAINING WALL DETAILS

INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

SCALE AS NOTED DATE: AUG., 1991

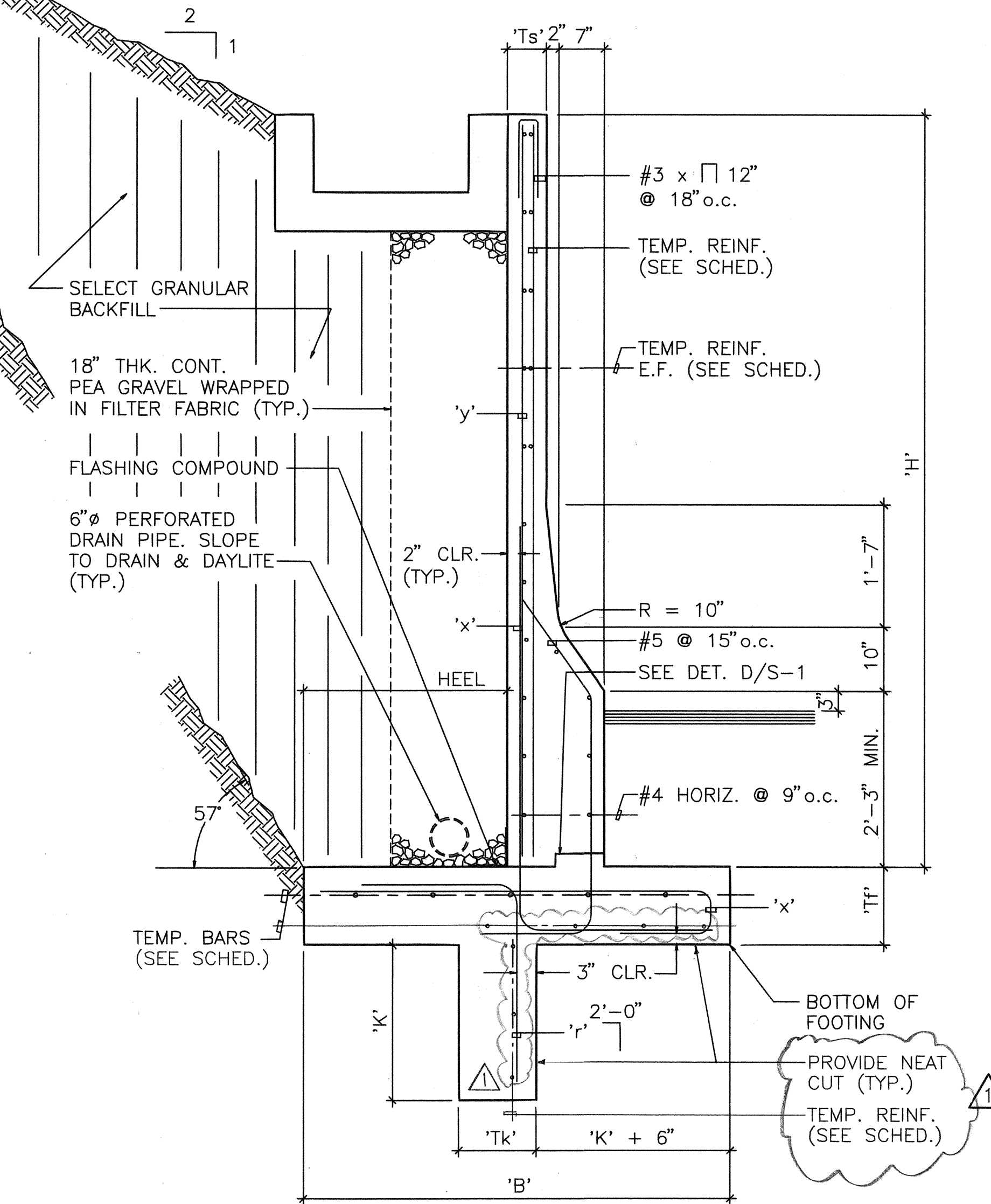
SHEET NO. 6A OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIC - 01 - 90	1991	29 S-2	109



SECTION RW-7A (WITH ON-SITE BACKFILL)
SC: 3/4" = 1'-0"

A
S-7



SECTION RW-7A (WITH SELECT BACKFILL)
SC: 3/4" = 1'-0"

B
S-7

RETAINING WALL (RW-7A) SCHEDULE (WITH ON-SITE BACKFILL)

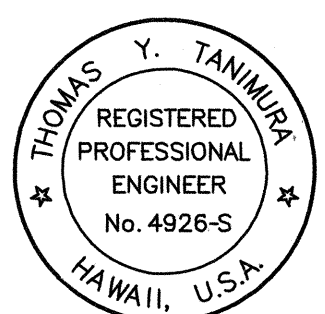
'H'	'TS'	'B'	HEEL	'Tf'	'K'	'TK'	'x'	'y'	'z'	'r'
≤16'-0"	1'-2"	12'-1"	4'-0"	2'-2"	6'-5"	2'-0"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#9 @ 9" o.c.	#7 @ 6" o.c.
≤15'-0"	1'-2"	11'-5"	4'-0"	2'-2"	5'-10"	2'-0"	#8 @ 7" o.c.	#7 @ 7" o.c.*	#9 @ 9" o.c.	#7 @ 7" o.c.
≤14'-0"	1'-2"	10'-5"	4'-0"	2'-0"	5'-3"	2'-0"	#8 @ 9" o.c.	#7 @ 9" o.c.*	#9 @ 9" o.c.	#7 @ 10" o.c.
≤13'-0"	1'-2"	9'-7"	4'-0"	1'-10"	4'-9"	1'-6"	#7 @ 7 1/2" o.c.	#6 @ 7 1/2" o.c.*	#9 @ 9" o.c.	#7 @ 9" o.c.
≤12'-0"	1'-0"	8'-1"	3'-0"	1'-6"	4'-4"	1'-6"	#7 @ 9" o.c.	#6 @ 9" o.c.*	#8 @ 10" o.c.	#7 @ 12" o.c.
≤11'-0"	1'-0"	7'-3"	3'-0"	1'-4"	3'-8"	1'-6"	#6 @ 9" o.c.	#6 @ 9" o.c.*	#8 @ 10" o.c.	#6 @ 12" o.c.
≤10'-0"	0'-8"	6'-5"	3'-0"	1'-2"	3'-2"	1'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.*	#8 @ 10" o.c.	#6 @ 12" o.c.
≤9'-0"	0'-8"	5'-11"	3'-0"	1'-2"	2'-7"	1'-0"	#5 @ 9" o.c.	#5 @ 9" o.c.	#8 @ 12" o.c.	#5 @ 12" o.c.
≤8'-0"	0'-6"	4'-8"	2'-0"	1'-2"	2'-0"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#6 @ 12" o.c.	#5 @ 12" o.c.
≤7'-0"	0'-6"	4'-1"	2'-0"	1'-2"	1'-4"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#6 @ 14" o.c.	#5 @ 12" o.c.
≤6'-0"	0'-6"	3'-5"	1'-6"	1'-2"	0'-8"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.
≤5'-0"	0'-6"	2'-10"	1'-0"	1'-2"	0'-0"	-	#5 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 12" o.c.	-
≤4'-0"	0'-6"	2'-4"	1'-0"	1'-2"	0'-0"	-	#5 @ 10" o.c.	#4 @ 10" o.c.	#5 @ 12" o.c.	-

* CUT ALTERNATE BARS 'H'/2

RETAINING WALL (RW-7A) SCHEDULE (WITH SELECT BACKFILL)

'H'	'TS'	'B'	HEEL	'Tf'	'K'	'TK'	'x'	'y'	'z'	'r'
≤18'-0"	1'-4"	11'-11"	4'-0"	2'-4"	5'-0"	1'-6"	#8 @ 6" o.c.	#7 @ 6" o.c.*	#9 @ 9" o.c.	#7 @ 7" o.c.
≤17'-0"	1'-4"	11'-3"	4'-0"	2'-4"	4'-6"	1'-6"	#8 @ 7" o.c.	#7 @ 7" o.c.*	#9 @ 10" o.c.	#7 @ 10" o.c.
≤16'-0"	1'-4"	10'-6"	4'-0"	2'-2"	4'-3"	1'-6"	#8 @ 9" o.c.	#7 @ 9" o.c.*	#9 @ 10" o.c.	#7 @ 13" o.c.
≤15'-0"	1'-0"	9'-11"	4'-0"	1'-10"	3'-8"	1'-6"	#7 @ 6" o.c.	#6 @ 6" o.c.*	#9 @ 9" o.c.	#6 @ 12" o.c.
≤14'-0"	1'-0"	9'-5"	4'-0"	1'-10"	3'-2"	1'-0"	#7 @ 8" o.c.	#6 @ 8" o.c.*	#9 @ 10" o.c.	#6 @ 10" o.c.
≤13'-0"	0'-10"	7'-10"	3'-0"	1'-6"	2'-11"	1'-0"	#7 @ 9" o.c.	#6 @ 9" o.c.*	#8 @ 11" o.c.	#6 @ 14" o.c.
≤12'-0"	0'-10"	7'-1"	3'-0"	1'-2"	2'-6"	1'-0"	#6 @ 7 1/2" o.c.	#5 @ 7 1/2" o.c.*	#8 @ 9" o.c.	#5 @ 12" o.c.
≤11'-0"	0'-8"	6'-3"	2'-6"	1'-2"	2'-2"	1'-0"	#6 @ 9" o.c.	#5 @ 9" o.c.*	#8 @ 12" o.c.	#5 @ 12" o.c.
≤10'-0"	0'-8"	5'-9"	2'-6"	1'-2"	1'-8"	1'-0"	#5 @ 9" o.c.	#4 @ 9" o.c.	#8 @ 13" o.c.	#5 @ 12" o.c.
≤9'-0"	0'-6"	5'-0"	2'-0"	1'-2"	1'-2"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#6 @ 12" o.c.	#5 @ 12" o.c.
≤8'-0"	0'-6"	4'-6"	2'-0"	1'-2"	0'-8"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#6 @ 14" o.c.	#5 @ 12" o.c.
≤7'-0"	0'-6"	3'-11"	2'-0"	1'-2"	0'-4"	1'-0"	#5 @ 10" o.c.	#4 @ 10" o.c.	#6 @ 16" o.c.	#5 @ 12" o.c.
≤19'-0"	1'-4"	12'-9"	4'-0"	2'-5"	5'-6"	1'-6"	#8 @ 5" o.c.	#7 @ 5" o.c.*	#9 @ 9" o.c.	#7 @ 6" o.c.

* CUT ALTERNATE BARS 'H'/2



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Thomas Y. Taniguchi
Signature



REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
10-21-91		ADDED SEISMIC DESIGN CRITERIA	CPI	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RETAINING WALL DETAILS

INTERSTATE ROUTE H-1
PAIWA STREET INTERCHANGE
PROJECT NO. HIC-01-90

SCALE AS NOTED

DATE: AUG., 1991

SHEET NO. 6B OF 6 SHEETS

29 S-2