

FED. ROAD DIST. NO.	STATE	F.A.I. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(221)	1996	19	36



Sta. 57+10 o/s 120' Lt.
 Modify: Type "C" Concrete Drop Inlet
 (For details see Sht. No. H4)
Estimated Quantities
 Type "C" Concrete Drop Inlet = 1 Ea.

Sta. 58+00 o/s 110' Lt. to # Sta. 60+00 Lt.
 Construct: 61618 Earth Swale
 (For detail see Sht. No. H5)
Estimated Quantities
 Ditch and Channel Excavation = 20 C.Y.

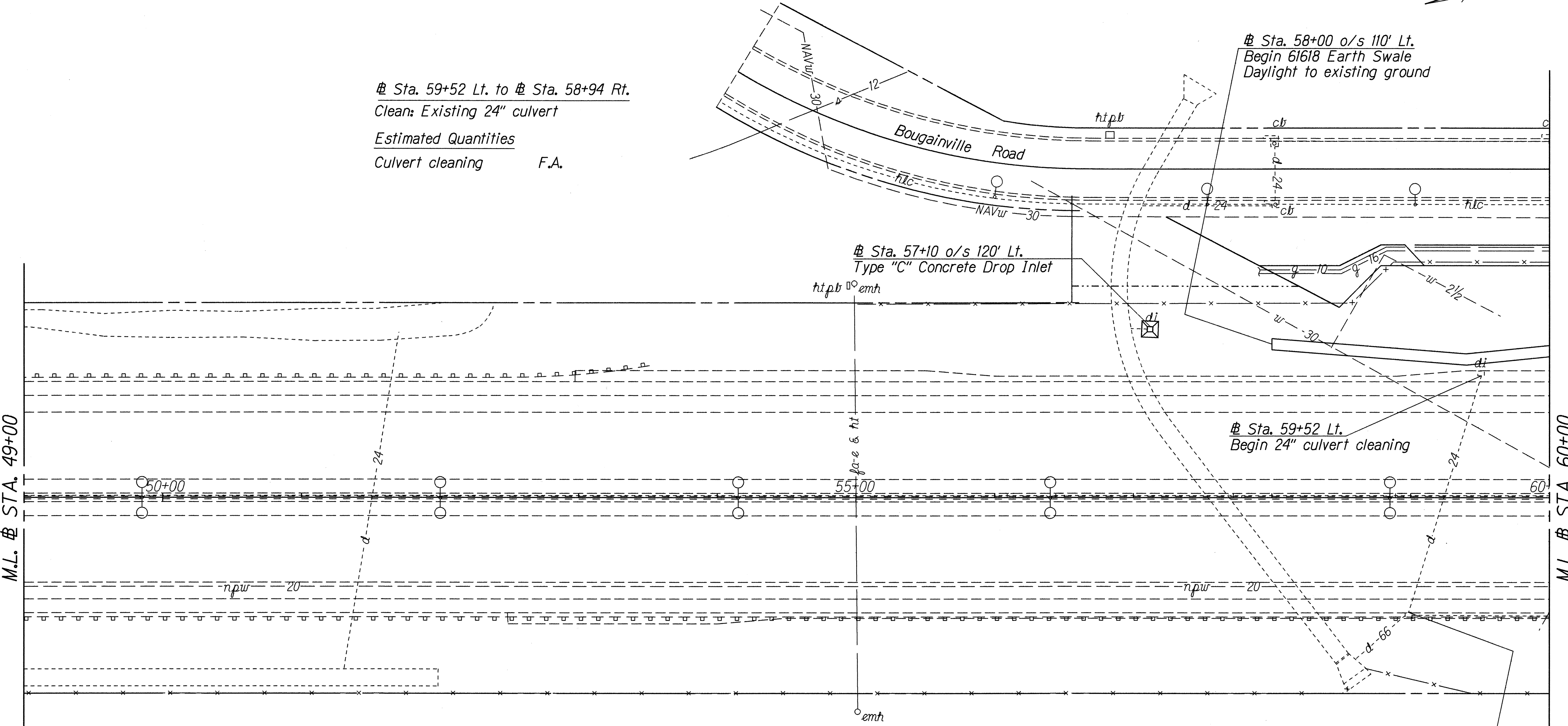
Sta. 59+52 Lt. to # Sta. 58+94 Rt.
 Clean: Existing 24" culvert
Estimated Quantities
 Culvert cleaning F.A.

Sta. 58+00 o/s 110' Lt.
 Begin 61618 Earth Swale
 Daylight to existing ground

Sta. 57+10 o/s 120' Lt.
 Type "C" Concrete Drop Inlet

Sta. 59+52 Lt.
 Begin 24" culvert cleaning

Sta. 58+94 Lt.
 End 24" culvert cleaning



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY A. MANUZA	4/23/96
QUANTITIES BY	DESIGNED BY R. SAKAMOTO	
CHECKED BY		

1/13/97	Added culvert cleaning.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
INTERSTATE ROUTE H-1 RESURFACING
Salt Lake Blvd. to Valkenburgh St.
F.A.I. Project No. IM-HI-1(221)

Scale: 1" = 40'
Date: May 1996

SHEET No. HI OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	F.A.I. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(221)	1996	21	36

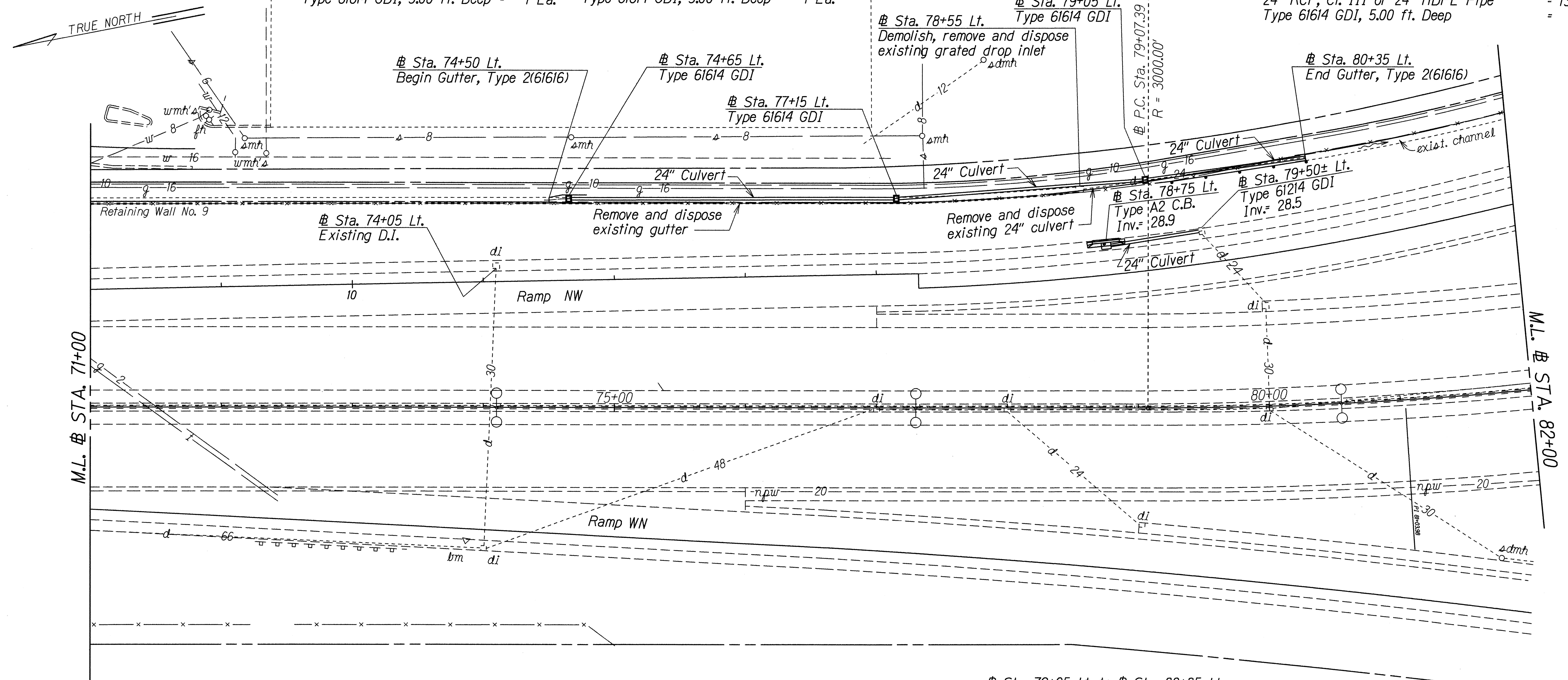
Sta. 74+50 Lt. to # Sta. 80+35 Lt.
Construct: Gutter, Type 2(61616)
(For details see Sht. No. H5)
Remove and dispose 405± L.F. of existing gutter
Estimated Quantities
Gutter, Type 2(61616) = 585 L.F.

Sta. 74+65 Lt.
Construct: Type 61614 GDI
Install: 24" Culvert
Estimated Quantities
Structure Excavation for Drainage System = 255 C.Y.
24" RCP, Cl. III or 24" HDPE Pipe = 250 L.F.
Type 61614 GDI, 5.00 ft. Deep = 1 Ea.

Sta. 77+15 Lt.
Construct: Type 61614 GDI
Install: 24" Culvert
Estimated Quantities
Structure Excavation for Drainage System = 194 C.Y.
24" RCP, Cl. III or 24" HDPE Pipe = 190 L.F.
Type 61614 GDI, 5.00 ft. Deep = 1 Ea.

Sta. 78+75 Lt.
Construct: Type A2 Catch Basin
Estimated Quantities
Structure Excavation for Drainage System = 142 C.Y.
Bed Course Material = 24 C.Y.
24" CSP, Sht. "I" = 0.109 inch = 104 L.F.
Type A2 C.B. = 1 Ea.
Pavement Restoration = 676 S.F.

Sta. 79+05 Lt.
Construct: Type 61614 GDI
Install: 24" Culvert
Estimated Quantities
Structure Excavation for Drainage System = 132 C.Y.
24" RCP, Cl. III or 24" HDPE Pipe = 130 L.F.
Type 61614 GDI, 5.00 ft. Deep = 1 Ea.



Sta. 74+05 Lt.
Sta. 79+50 Lt.
Remove: Banyon tree root from existing drop inlets (this work shall be considered part of culvert cleaning)
Estimated Quantities
Culvert cleaning F.A.

Sta. 79+05 Lt. to # Sta. 80+35 Lt.
Relocate: 130± L.F. of existing chain link fence.
Contractor shall use the existing chain link mesh and top rail.
Install: 7± L.F. of new chain link material and top rail, and install new fence posts along new alignment.

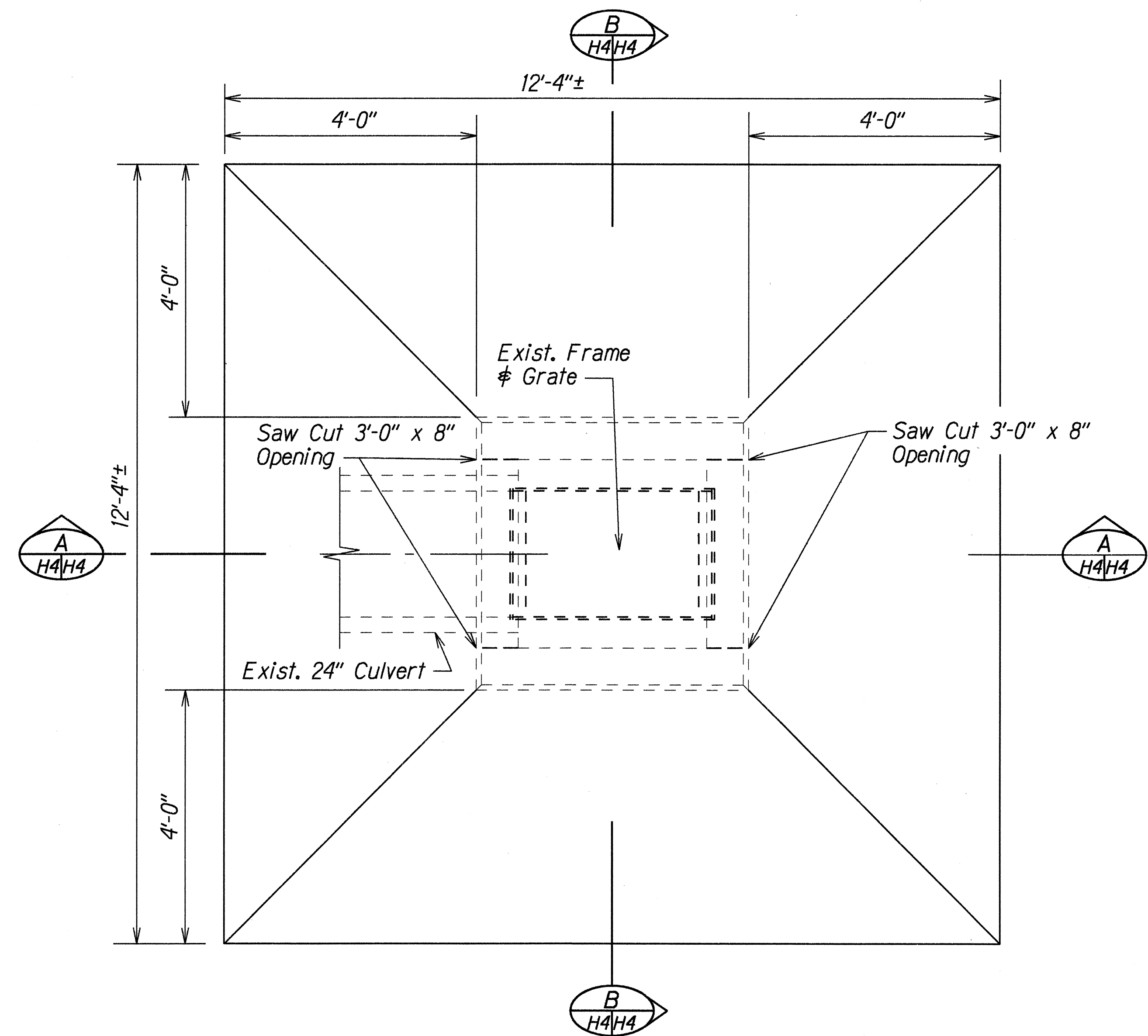
Estimated Quantities
5-Foot Chain Link Fence with Top Rail = 7 L.F.
Relocate Fence = 130 L.F.

1/13/97	Added Type A2 Catch Basin, culvert cleaning, relocation and installation of fence.
DATE	REVISION

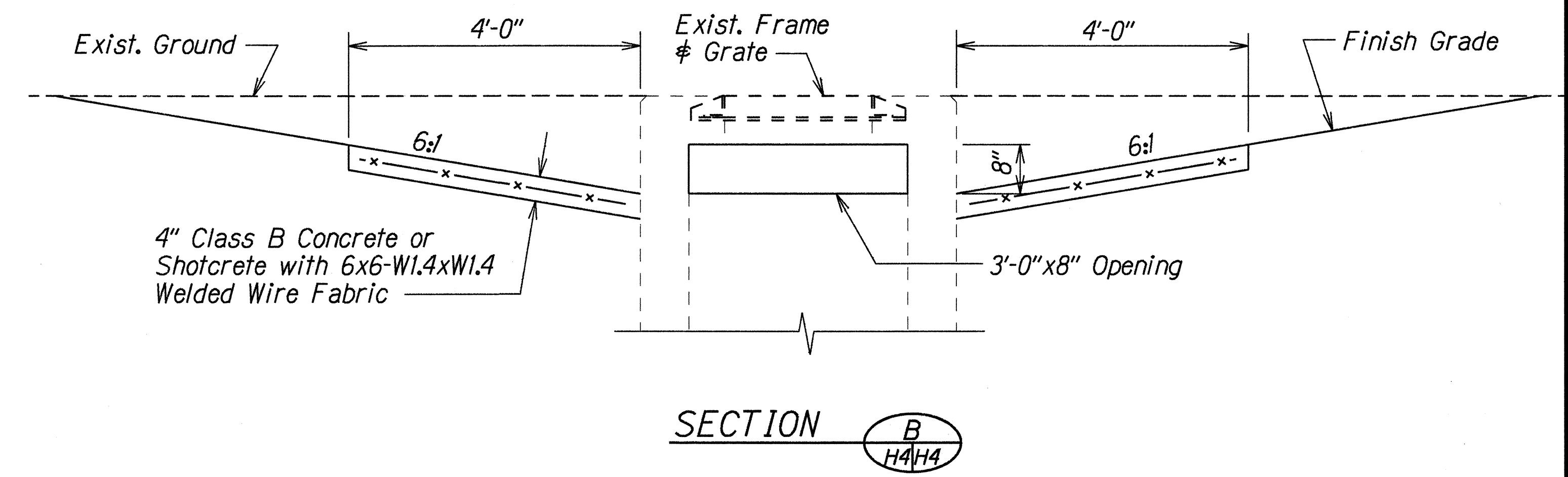
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE PLAN	
INTERSTATE ROUTE H-1 RESURFACING Salt Lake Blvd. to Valkenburgh St. F.A.I. Project No. IM-HI-1(221)	
Scale: 1" = 40'	Date: May 1996
SHEET No. H3 OF 5 SHEETS	

ORIGINAL PLAN	DATE 1/13/97
DESIGNED BY A. MAMULA	
CHECKED BY N. MAMULA	
NOTED BY N. MAMULA	
QUANTITIES BY N. MAMULA	

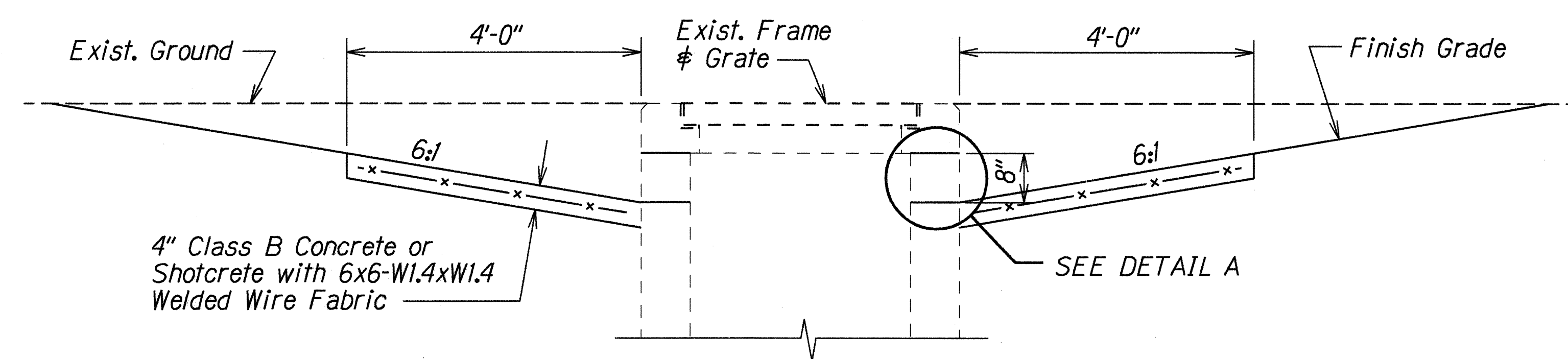
FED. ROAD DIST. NO.	STATE	F.A.I. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(221)	1996	22	36



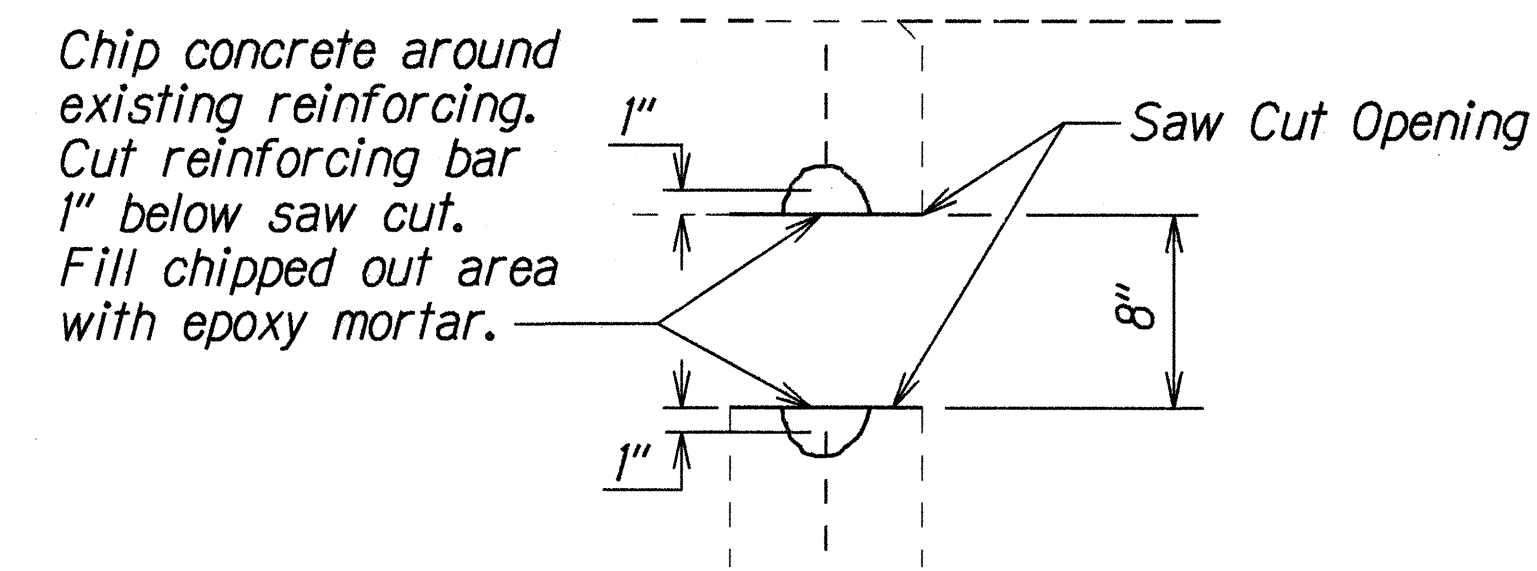
PLAN



SECTION B



SECTION A



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

NOTE: Clearing and grubbing and construction of Concrete Apron shall be incidental to Type "C" Concrete Drop Inlet

TYPE "C" CONCRETE DROP INLET AT # STA. 57+10 o/s 120' LT.

ORIGINAL PLAN	DATE	5/12/96
SURVEY PLOTTED BY	DESIGNED BY	B. S. S. S.
NOTE BOOK	QUANTITIES BY	B. S. S. S.
DESIGNED BY	CHECKED BY	B. S. S. S.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

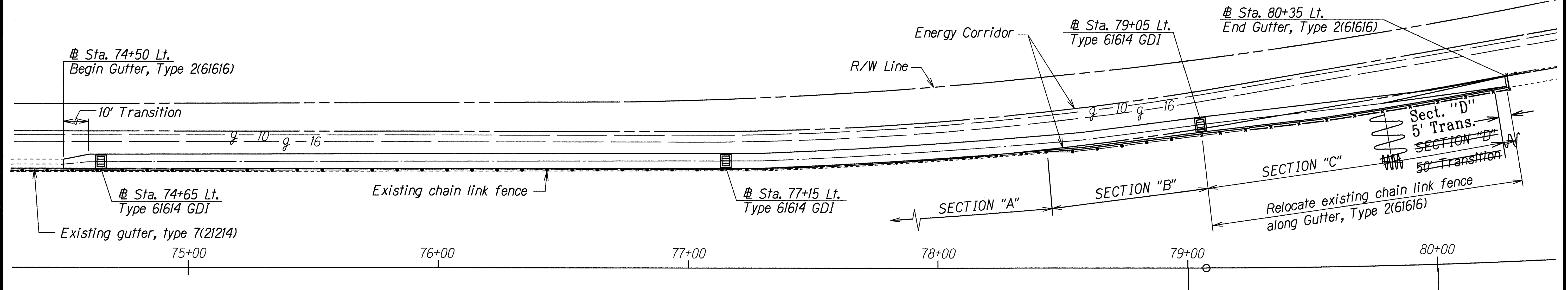
DRAINAGE DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Salt Lake Blvd. to Valkenburgh St.
F.A.I. Project No. IM-HI-1(221)

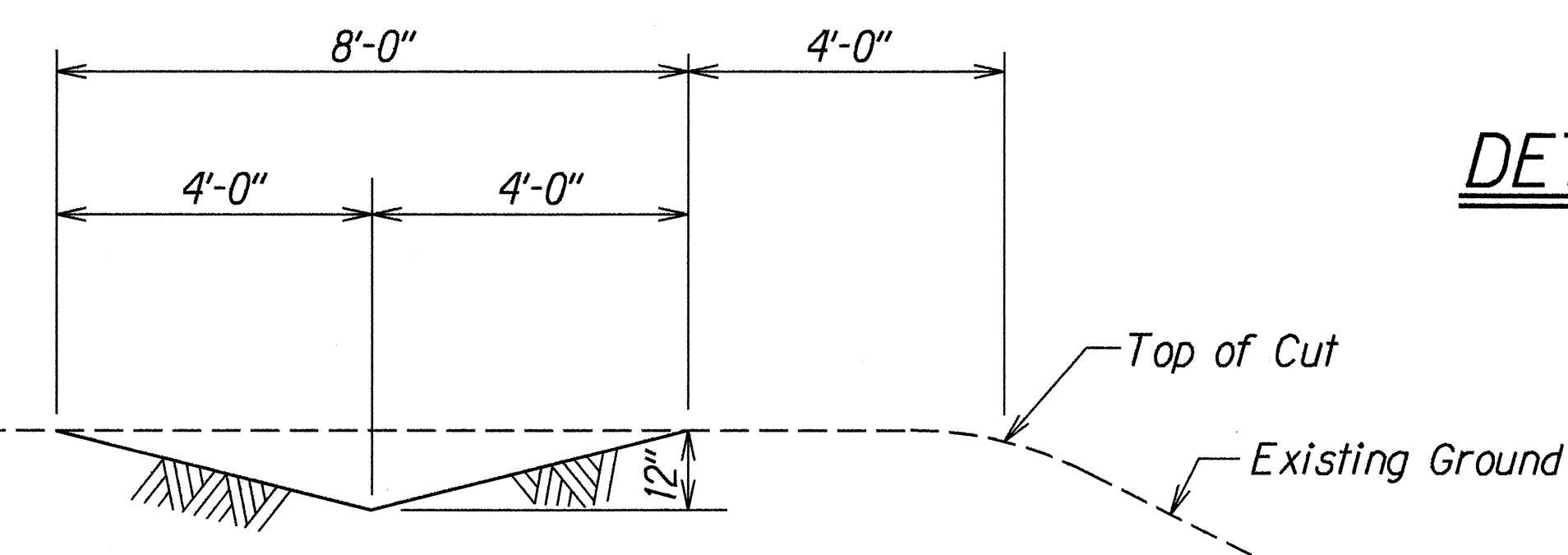
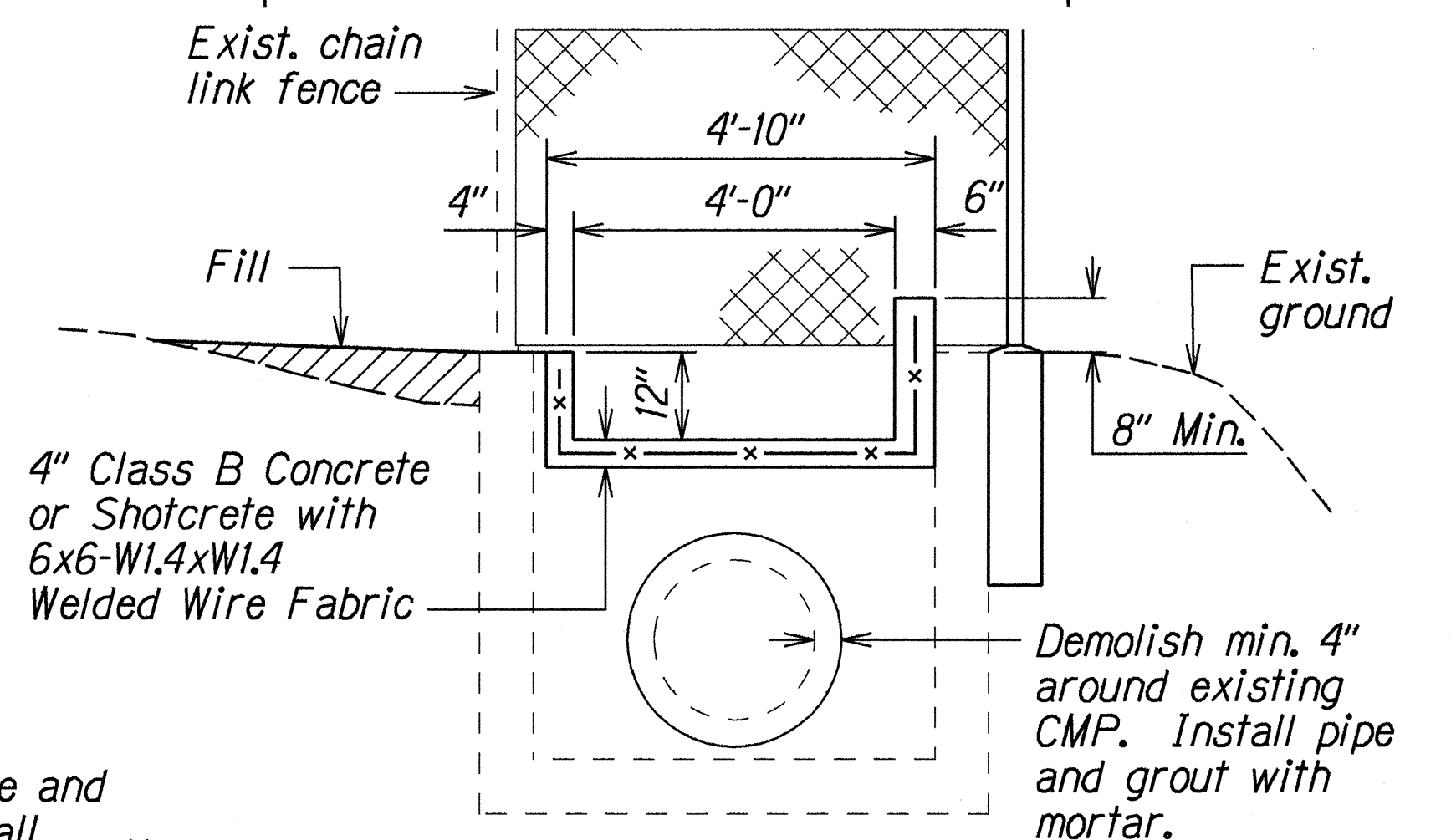
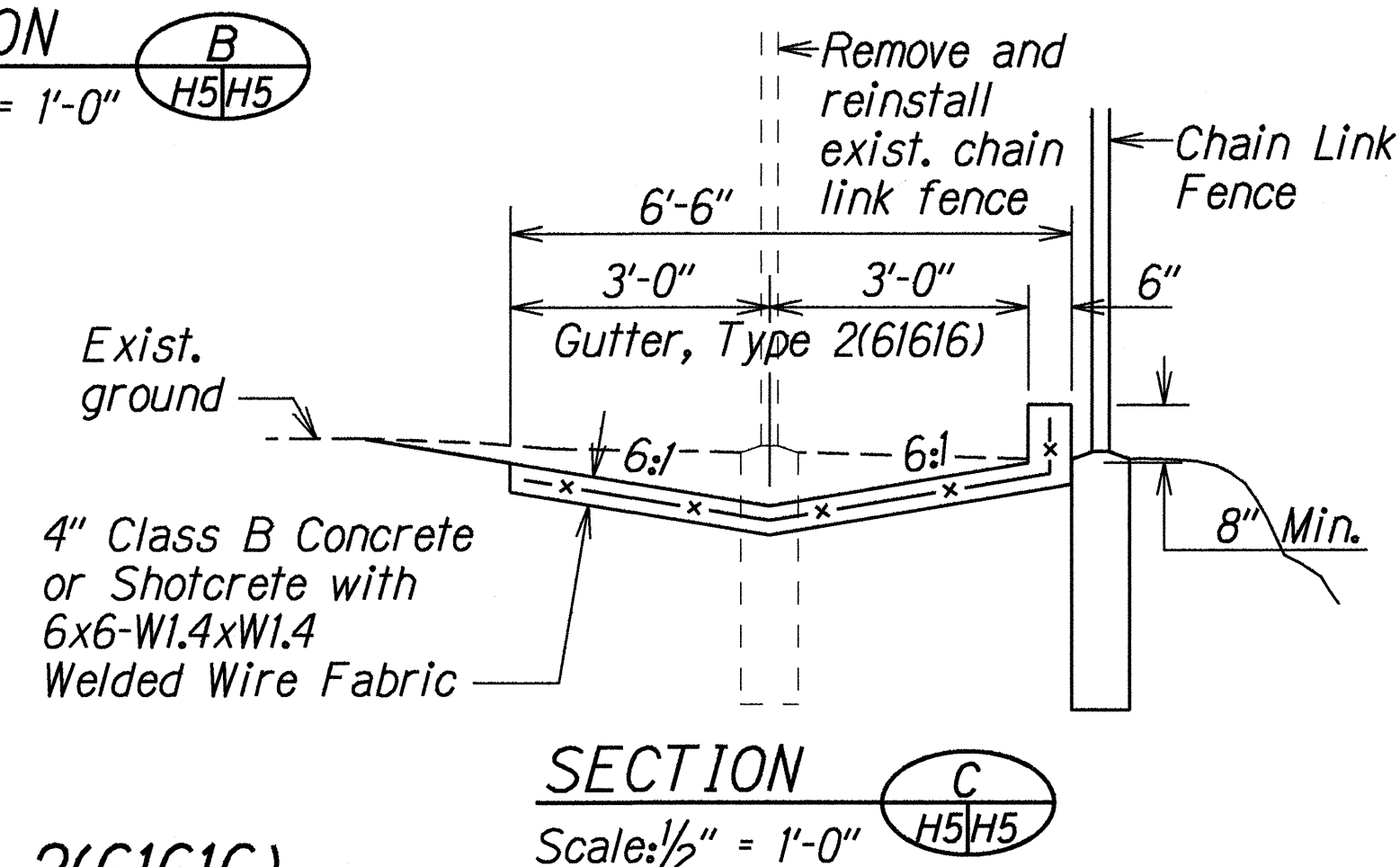
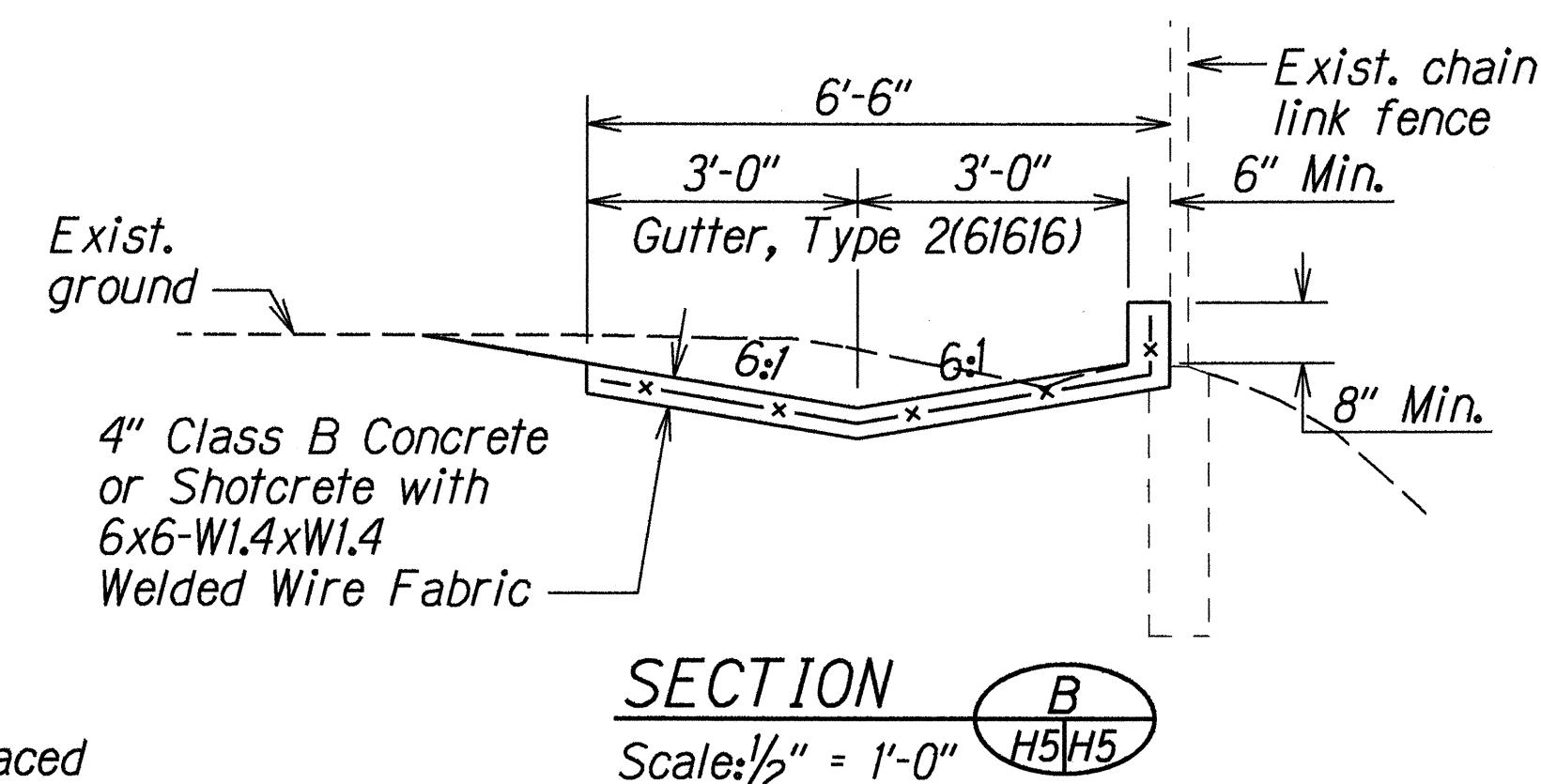
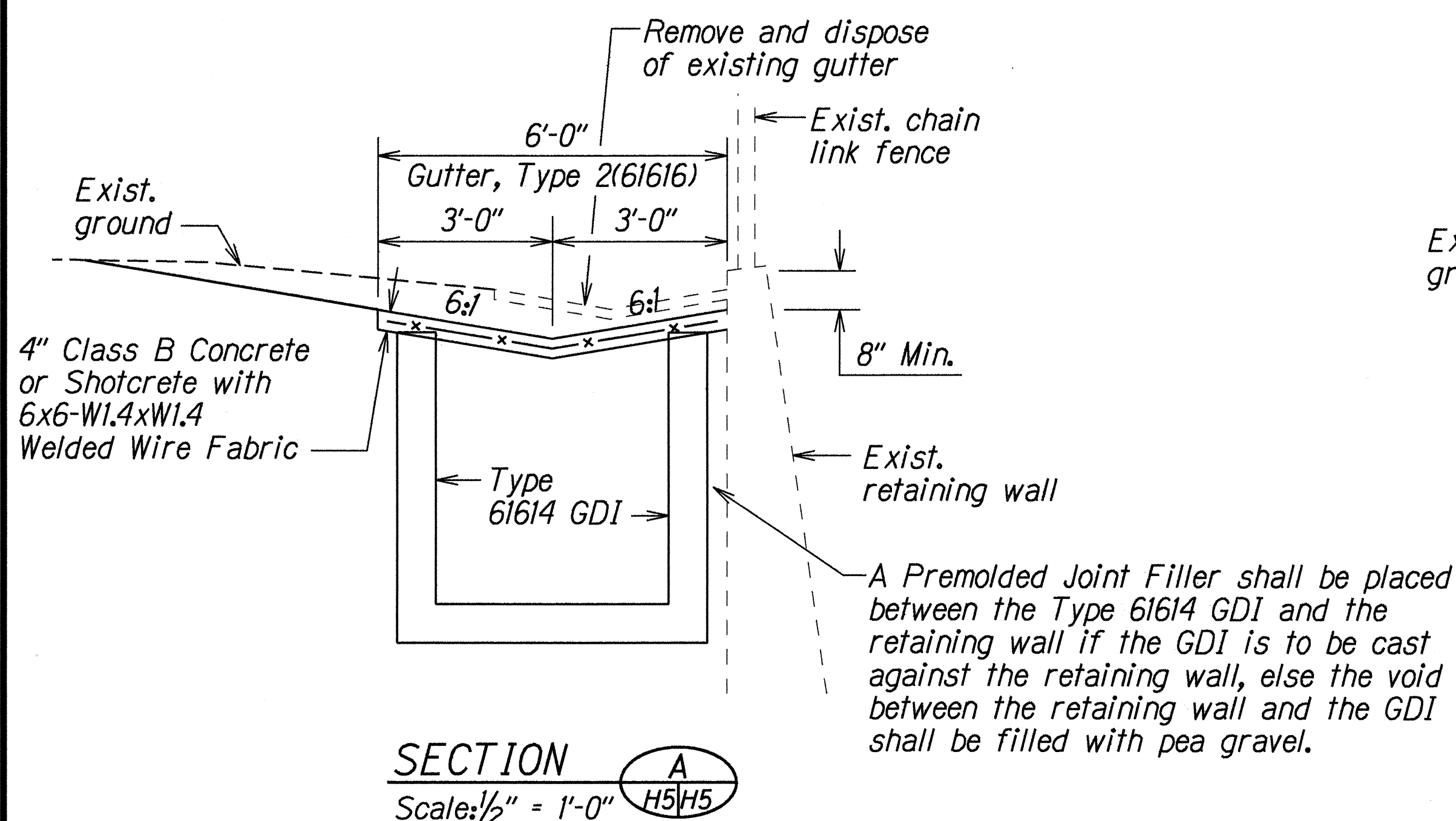
Scale: 3/4"=1'-0" Date: May 1996

SHEET No. H4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	F.A.I. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(221)	1996	23	36



PLAN
Scale: 1"=20'



DETAIL OF GUTTER, TYPE 2(61616)

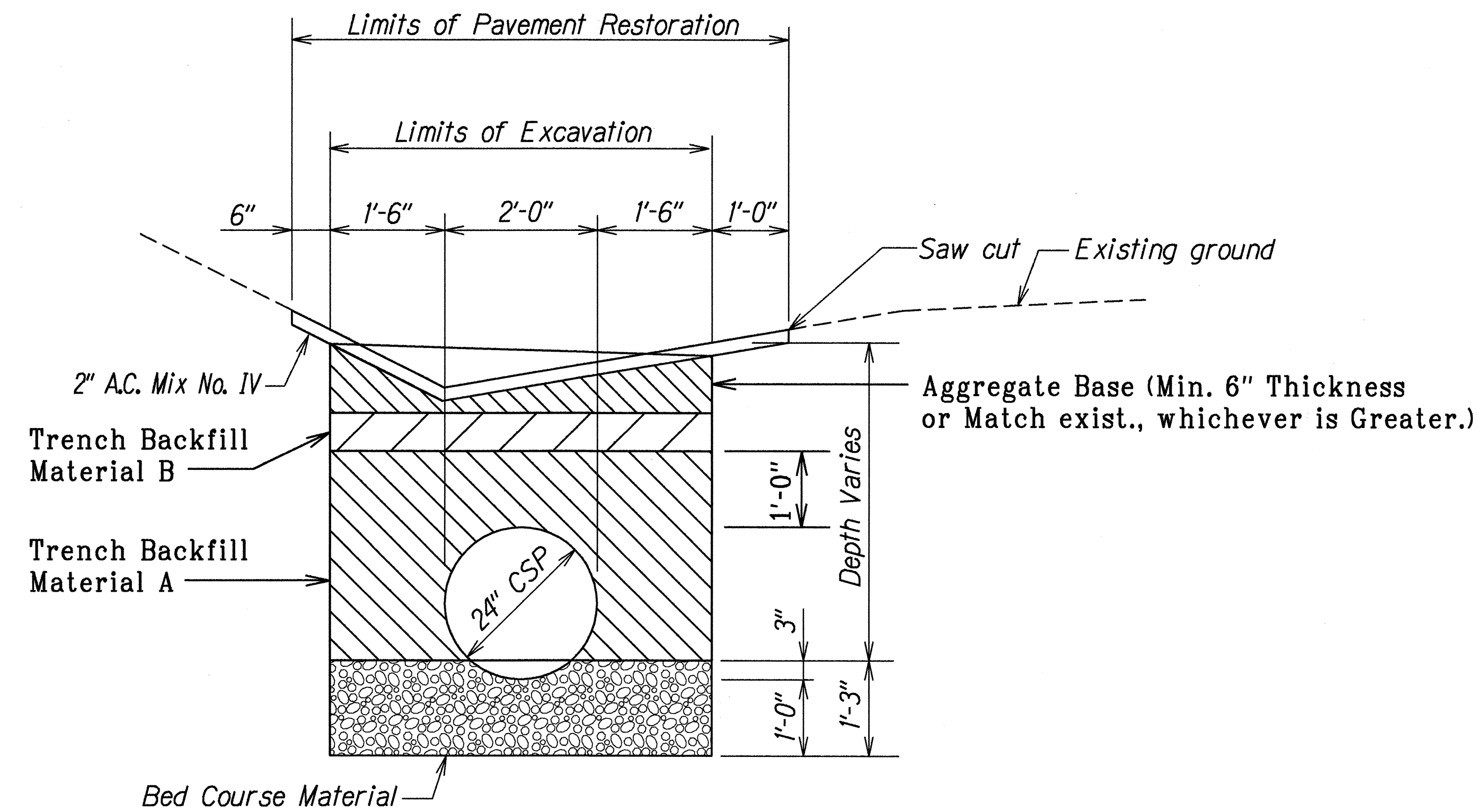
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting

DATE	REVISION
1/13/97	Changed location of Chainlink Fence.

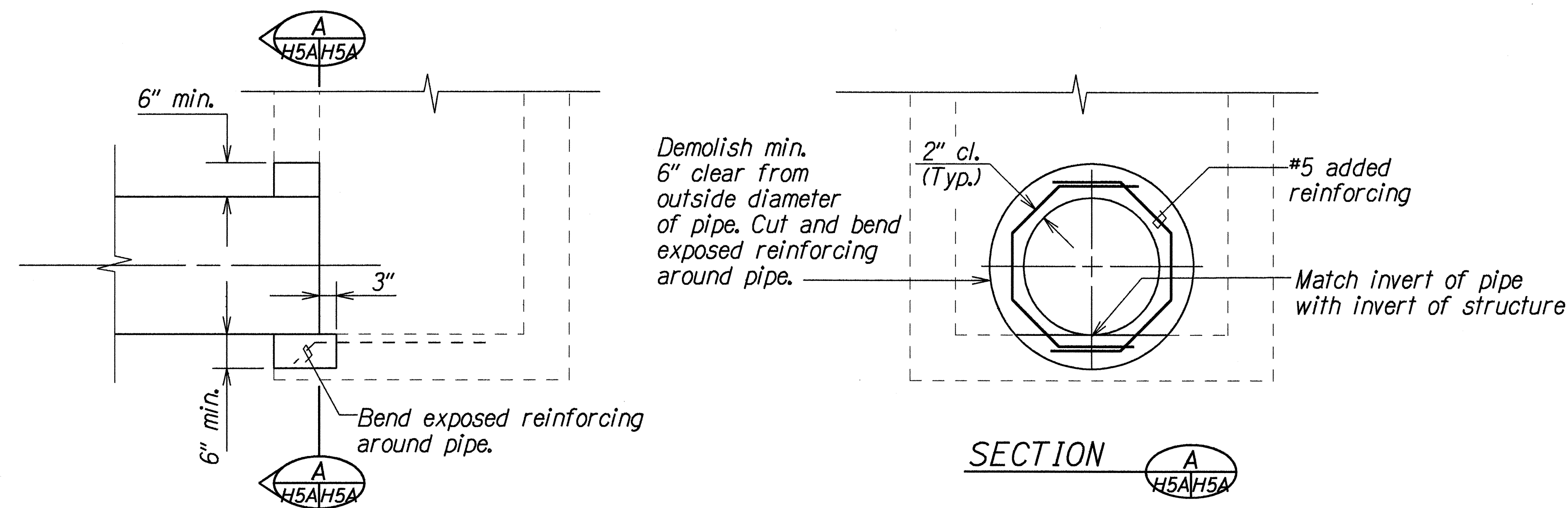
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAILS	
INTERSTATE ROUTE H-1 RESURFACING	
Salt Lake Blvd. to Valkenburgh St.	
F.A.I. Project No. IM-HI-1(221)	
Scale: As Noted	Date: May 1996
SHEET No. H5 OF 5 SHEETS	

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	4/24/96
DRAWN BY A. Mulla	
DESIGNED BY B. Salomao	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	F.A.I. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(221)	1996	C.O.23 S-1	36



TRENCH DETAIL @ STA. 78+75 LT. TO @ STA. 79+50± LT.



ELEVATION

DETAILS OF PIPE CONNECTION

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	
<u>DRAINAGE DETAILS</u>	
INTERSTATE ROUTE H-1 RESURFACING	
Salt Lake Blvd. to Valkenburgh St.	
F.A.I. Project No. IM-HI-1(221)	
Scale: 3/4"=1'-0"	Date: Jan 1997
SHEET No. H5A OF 5 SHEETS	

1/13/97	Added details to show pavement restoration and pipe connection.
DATE	REVISION