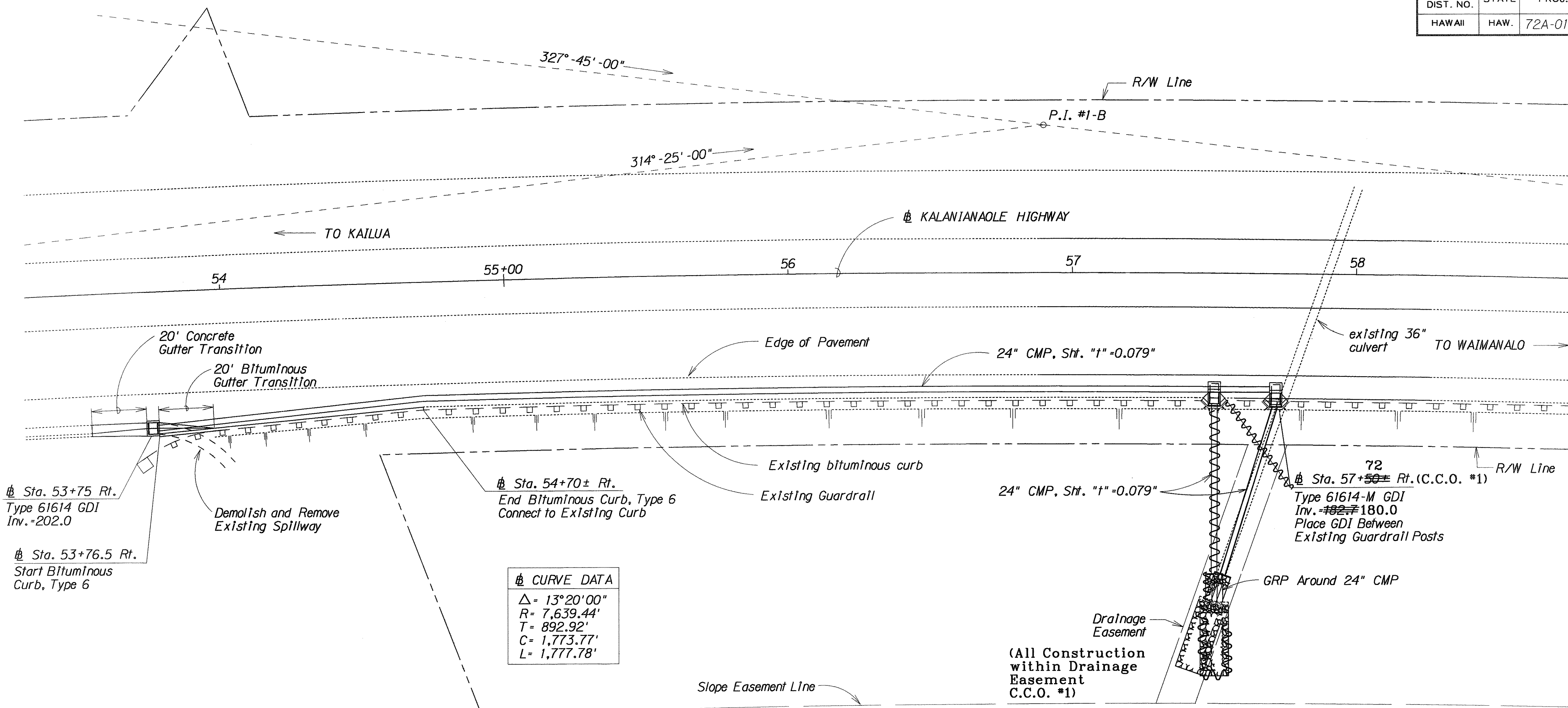


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72A-01-91M	1991	3	6



GENERAL NOTES:

- No open trenches shall be allowed to remain during the Contractor's non-working hours. The Contractor shall not use the shoulders for stockpiling excavated material or for storing materials or equipment.
- At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- The Contractor shall install two (2) CW20-1d signs (Road Construction Ahead) and two (2) CG20-2 signs (End Construction). The exact locations of the signs shall be determined by the Engineer. Payment shall be made under Item No. 621.7120-Construction Sign with Two Posts.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of the work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- All saw cutting work shall be considered incidental to the various Contract Items.
- Demolishing, removing, and disposing existing spillway structure shall not be paid for separately, but shall be considered incidental to the various Contract Items.
- For Existing Roadway Shoulder Restoration Detail, see Plan Sht. No. 4.
- Concrete shall be Class A unless otherwise noted.
- Chamfer all exposed concrete edges 1".

10. Type 61614B frame and grates shall be installed in Type 61614 GDI at Sta. 53+75 Rt. and Type 61614-M GDI at Sta. 57+50 ± Rt.

11. Removal and replacement of existing guardrail, if necessary, shall not be paid for separately, but shall be considered incidental to the various Contract Items.

Sta. 53+53.5 Rt. to Sta. 53+73.5 Rt.
Construct: Concrete Gutter Transition
Estimated Quantity
Concrete Gutter Transition=20 L.F.

Sta. 53+76.5 Rt. to Sta. 54+70 ± Rt.
Construct: Bituminous Curb, Type 6
Estimated Quantity
Bituminous Curb, Type 6=94 L.F.

Sta. 53+76.5 Rt. to Sta. 53+96.5 Rt.
Construct: Bituminous Gutter Transition
Estimated Quantity
Bituminous Gutter Transition=20 L.F.

Sta. 53+75 Rt.
Construct: Type 61614 GDI,
Install: 24" CMP, Sht. "t"=0.079"
Estimated Quantities
Type 61614 Grated Drop Inlet
4.00 to 4.99 Ft. = 1 Ea.
24" CMP, Sht. "t"=0.079" = 375 L.F.
Structure Excavation = 347 C.Y.
Restoration of Existing Highway = 2,625 S.F.

Sta. 57+50 ± Rt. (C.C.O. #1)
Construct: Type 61614-M GDI,
Install: 24" CMP, Sht. "t"=0.079"
Grouted Rubble Pavement
Estimated Quantities
Type 61614-M Grated Drop Inlet
4.00 to 4.99 Ft. = 1 Ea.
24" CMP, Sht. "t"=0.079" = 81 L.F.
Structure Excavation = 75 C.Y.
Grouted Rubble Pavement = 19 C.Y.

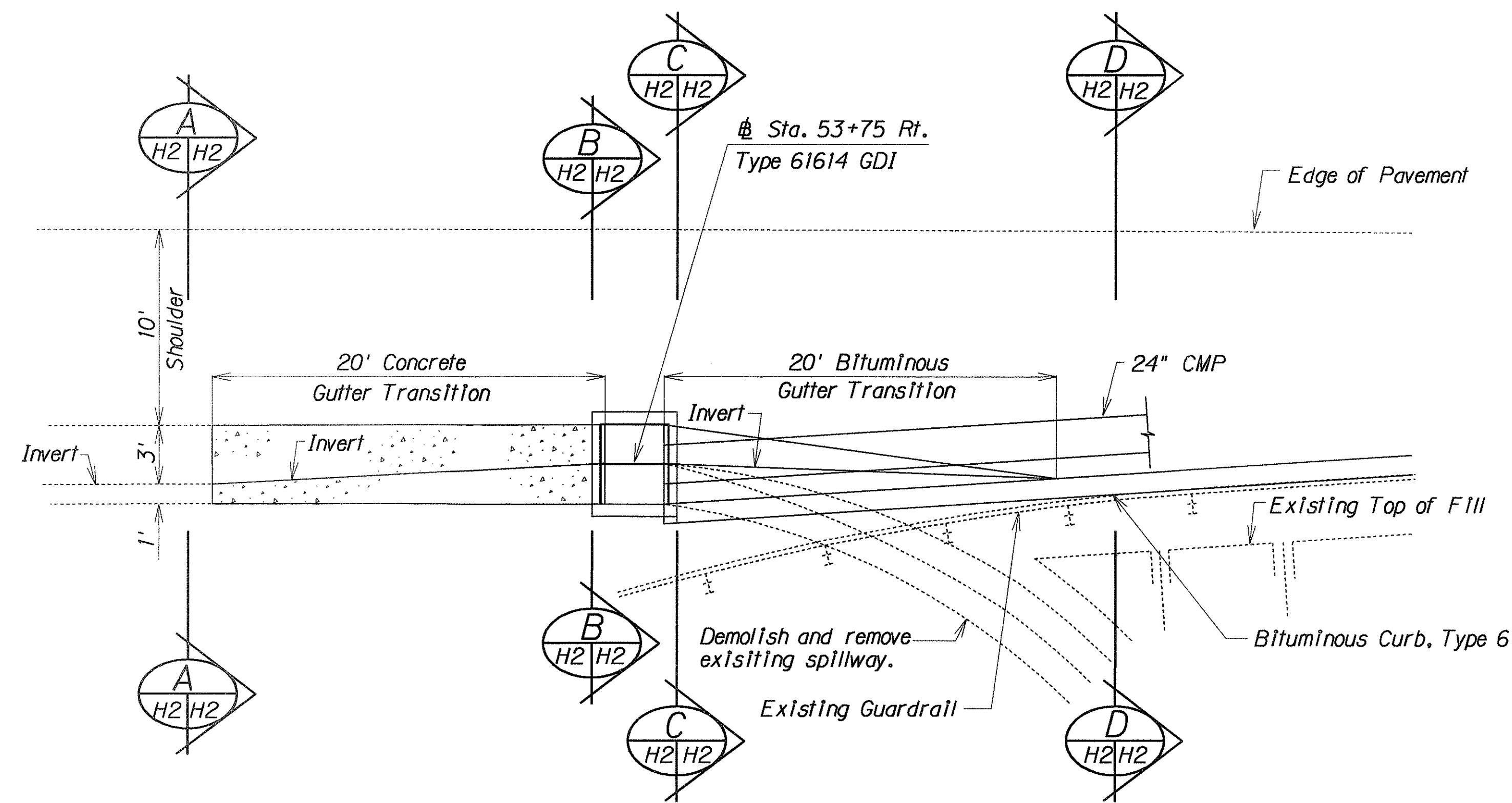
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
KALANIANA'OLE HIGHWAY
Modification to Existing Drainage System Vicinity of M.P. 1.1
PROJ. NO. 72A-01-91M
Scale: 1" = 20'
Date: Apr., 1991
SHEET No. H1 OF 4 SHEETS

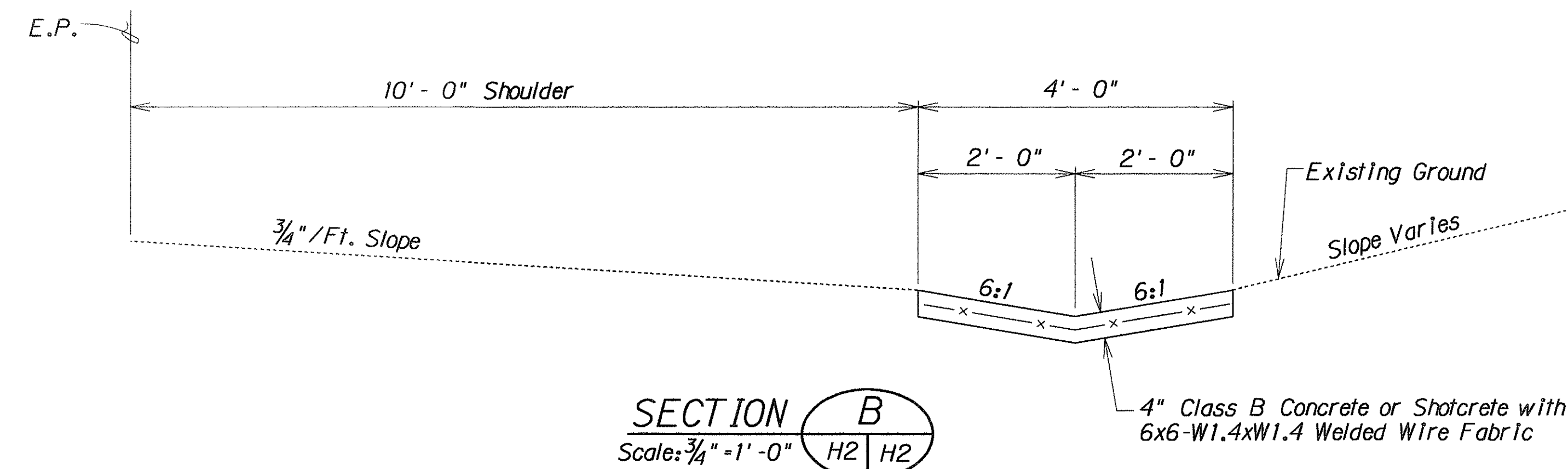
AS-BUILT

3

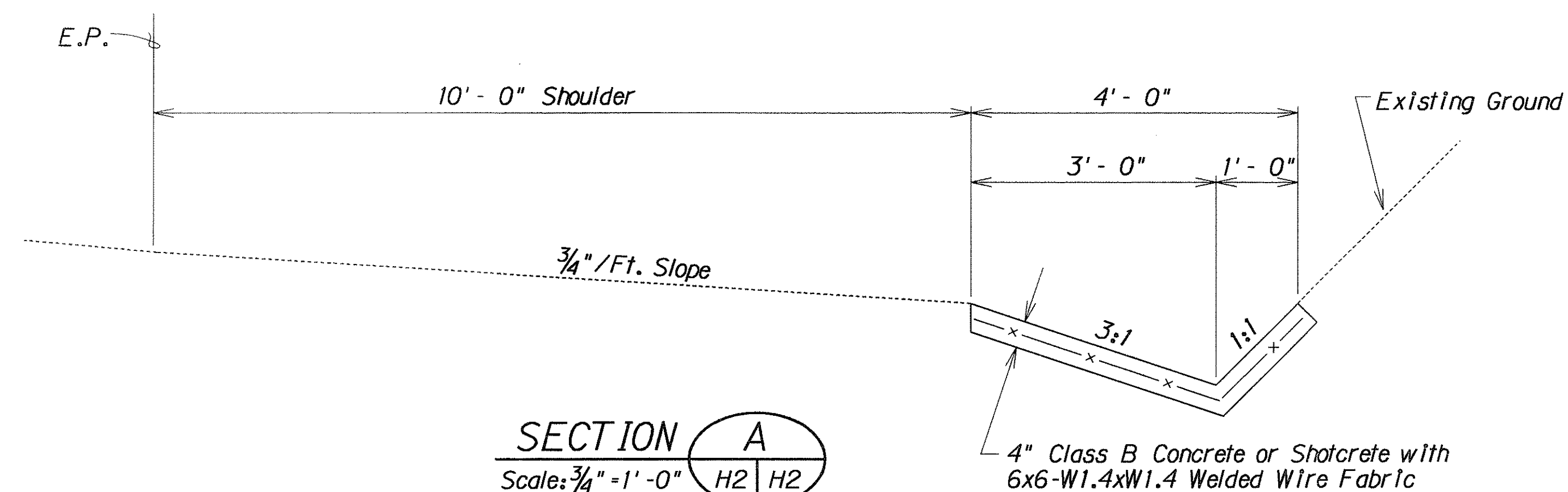
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72A-01-91M	1991	4	6



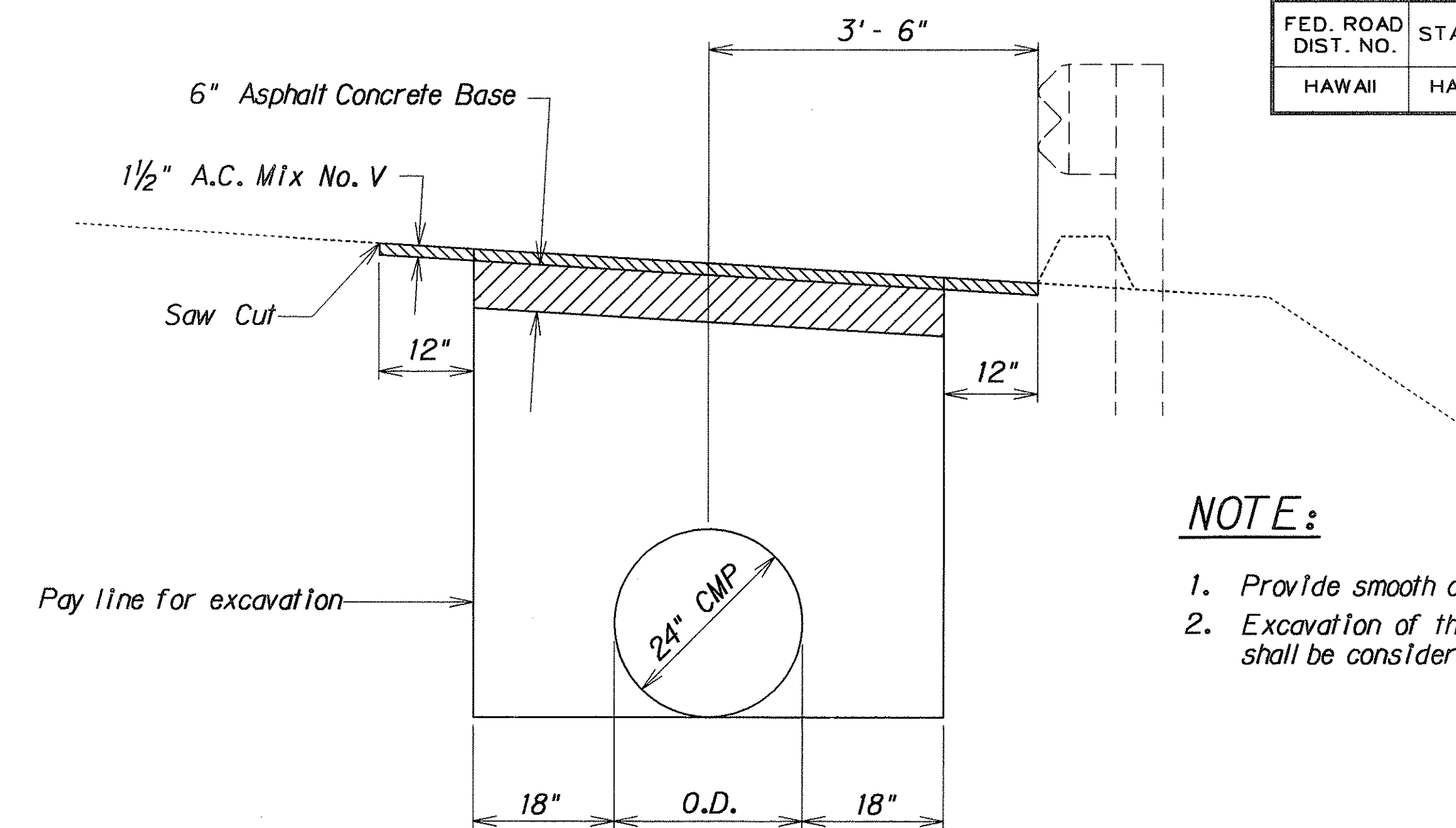
PLAN
Scale: 1"=5'



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



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



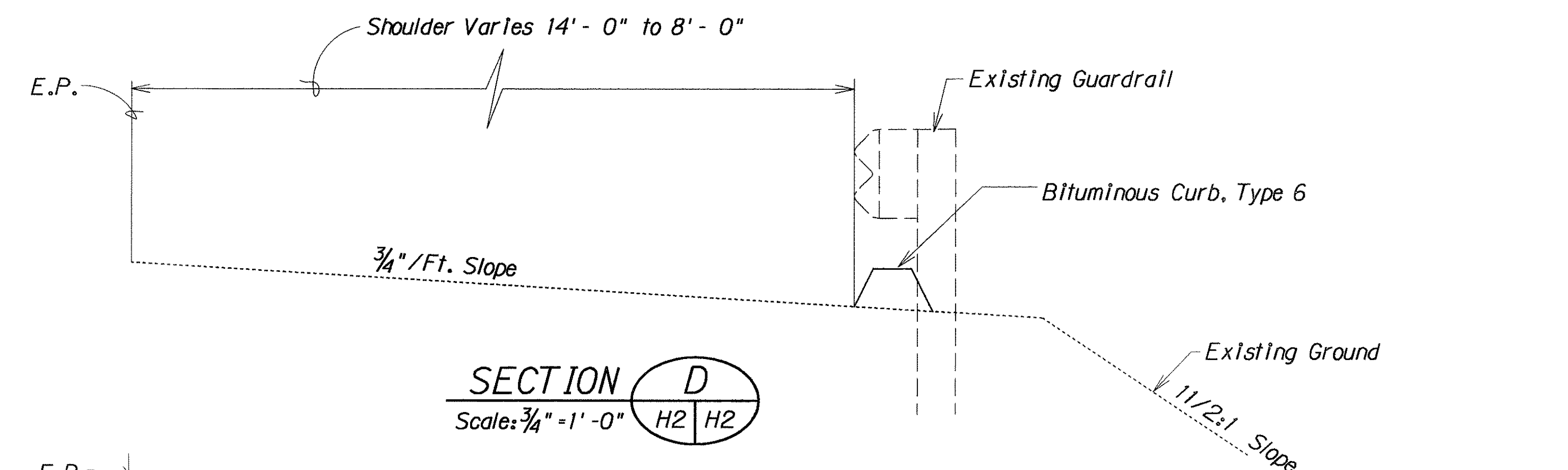
NOTE:

1. Provide smooth connection to existing pavement.
2. Excavation of the extra 12" width of AC Mix No. V shall be considered as structure excavation.

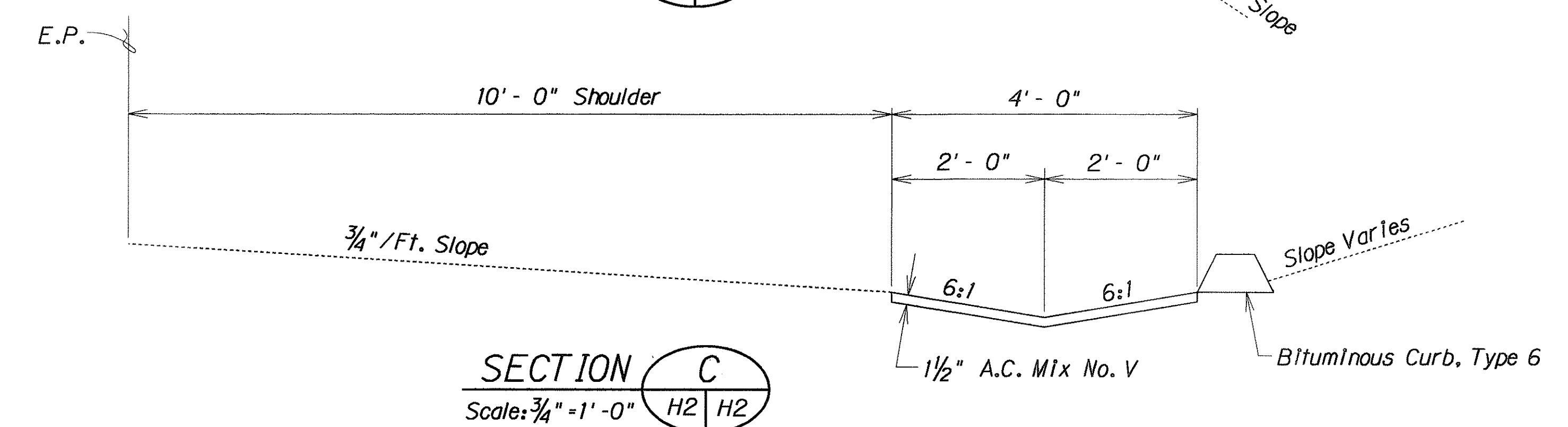
TYPICAL SECTION

RESTORATION OF EXISTING ROADWAY SHOULDER

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



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



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

DETAILS OF GUTTER TRANSITION AT STA. 53+75 RT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

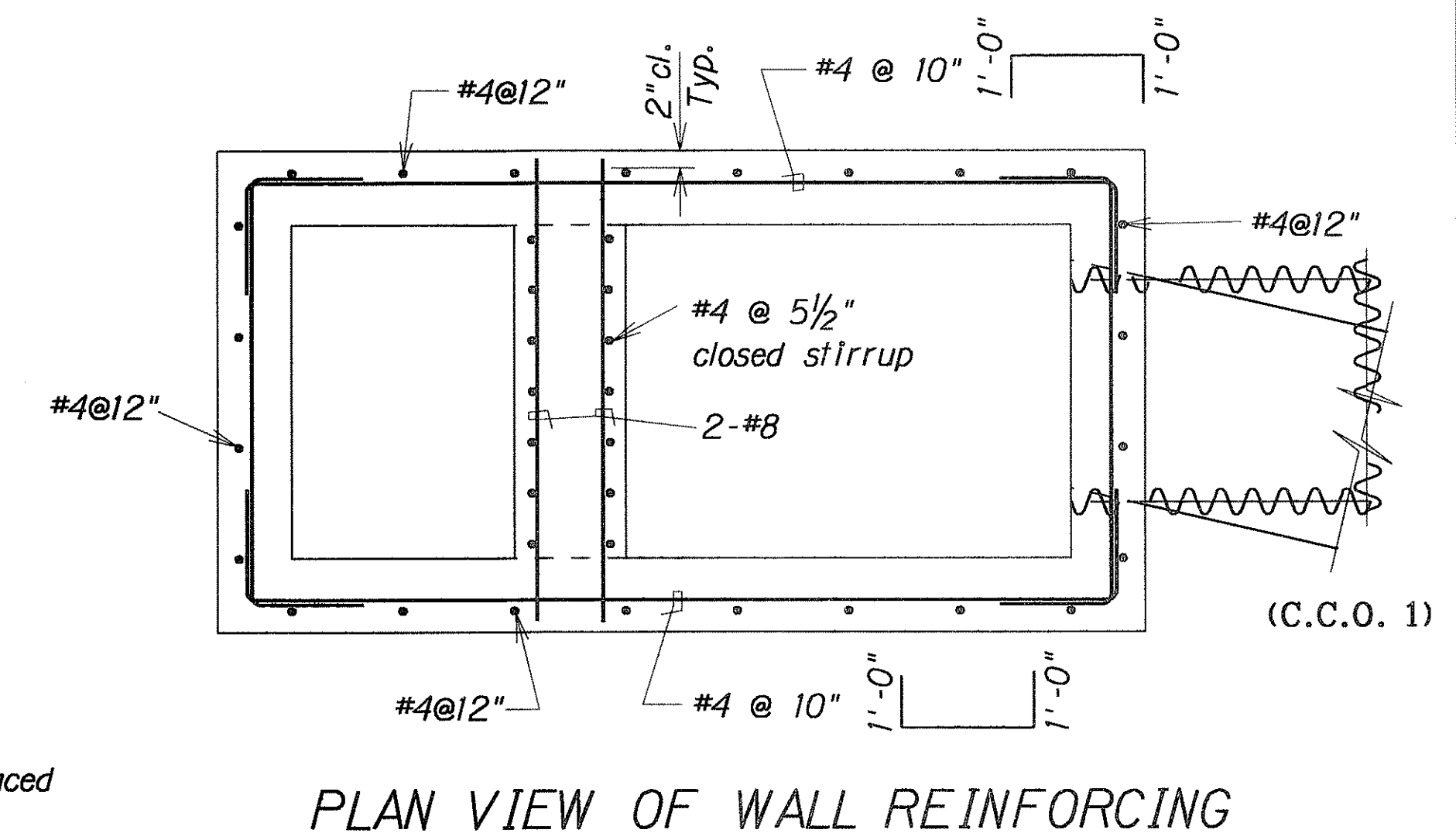
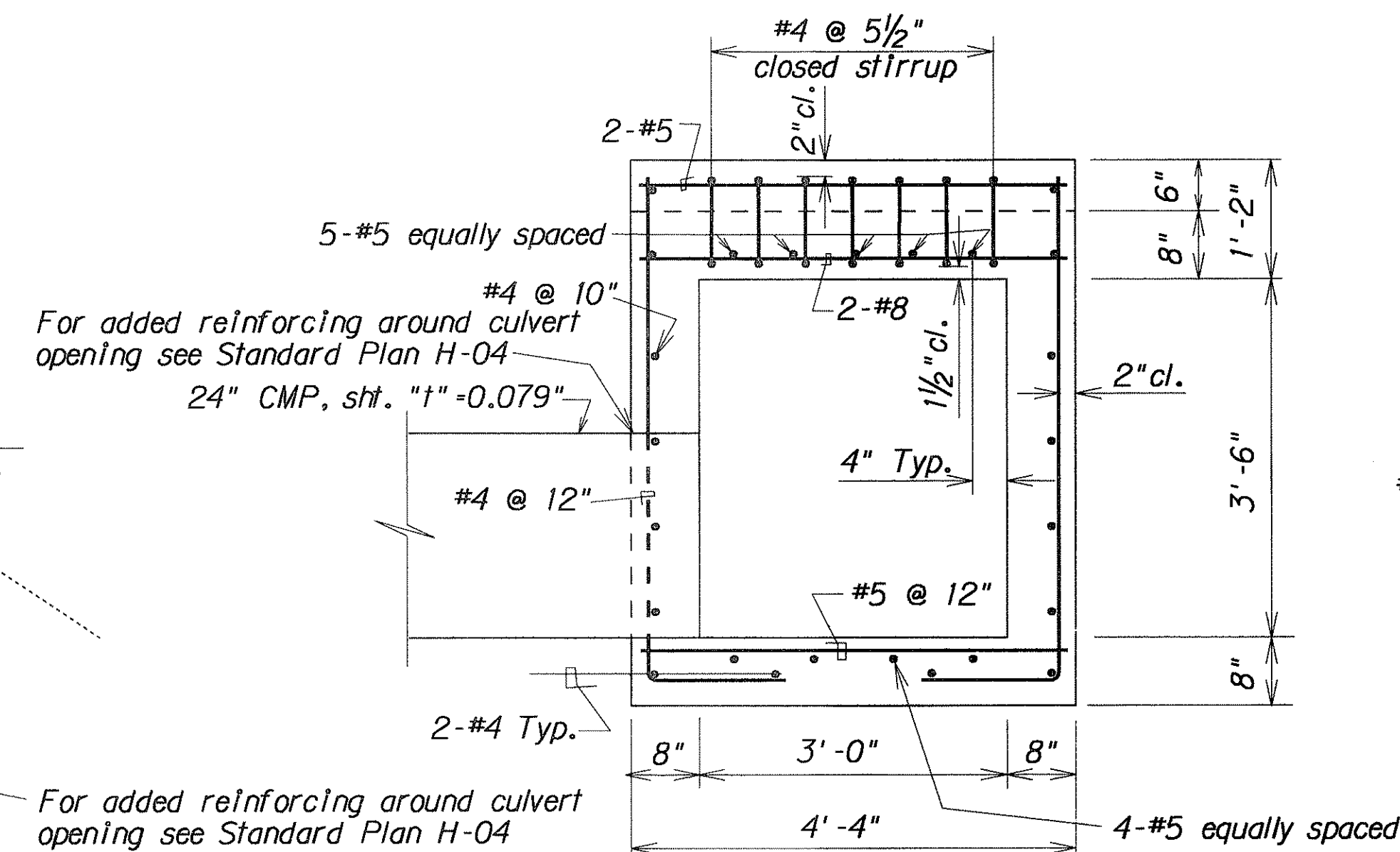
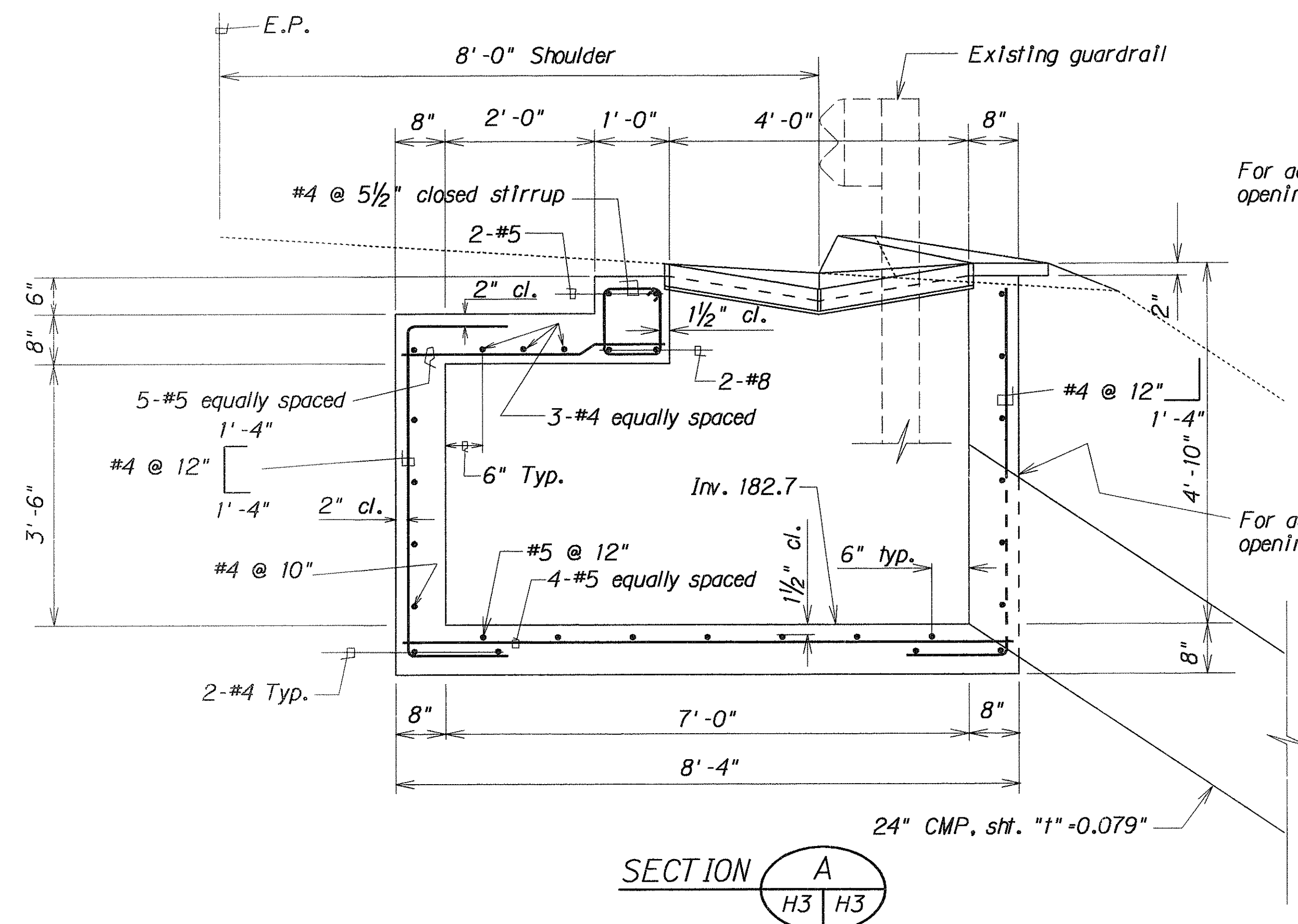
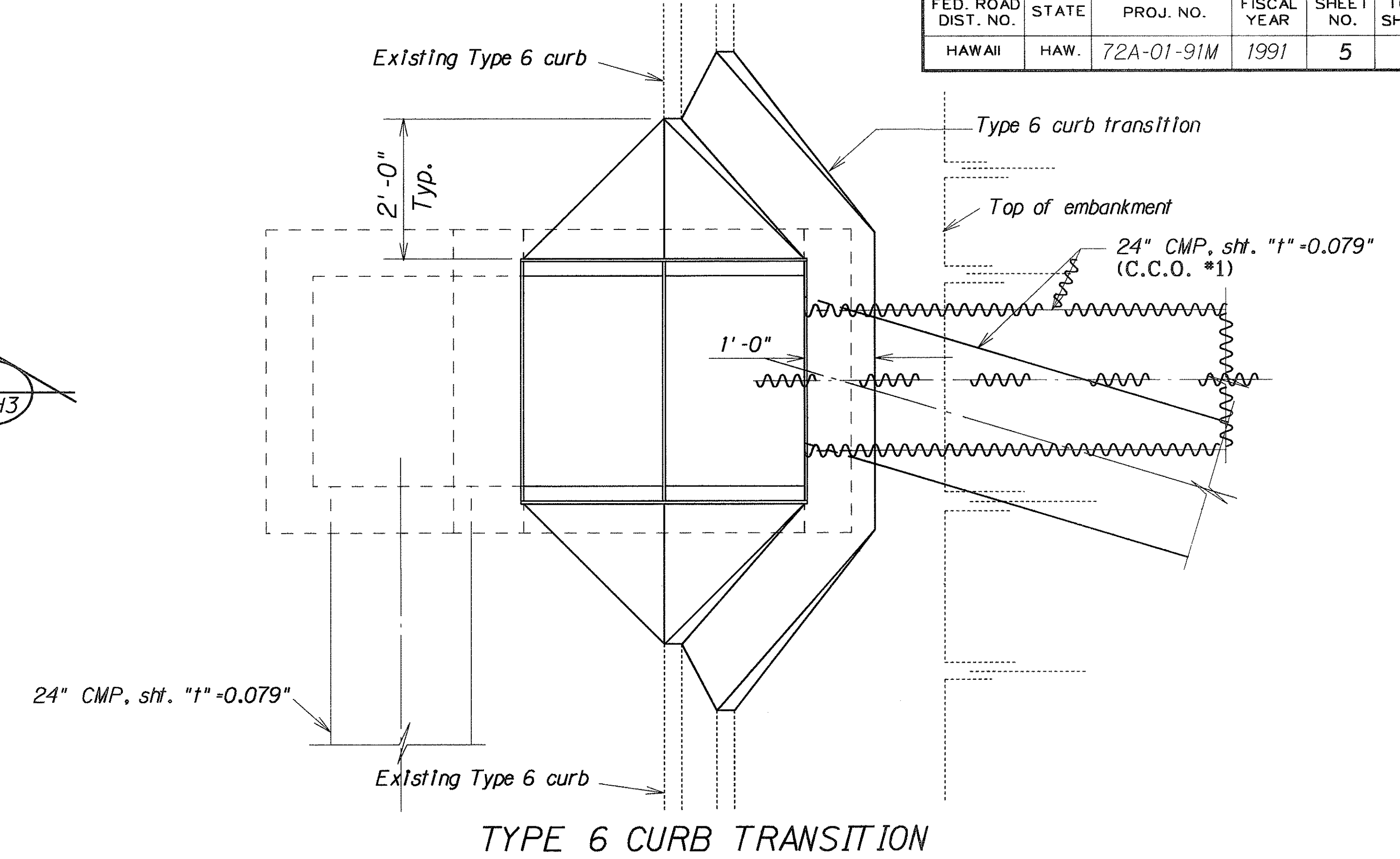
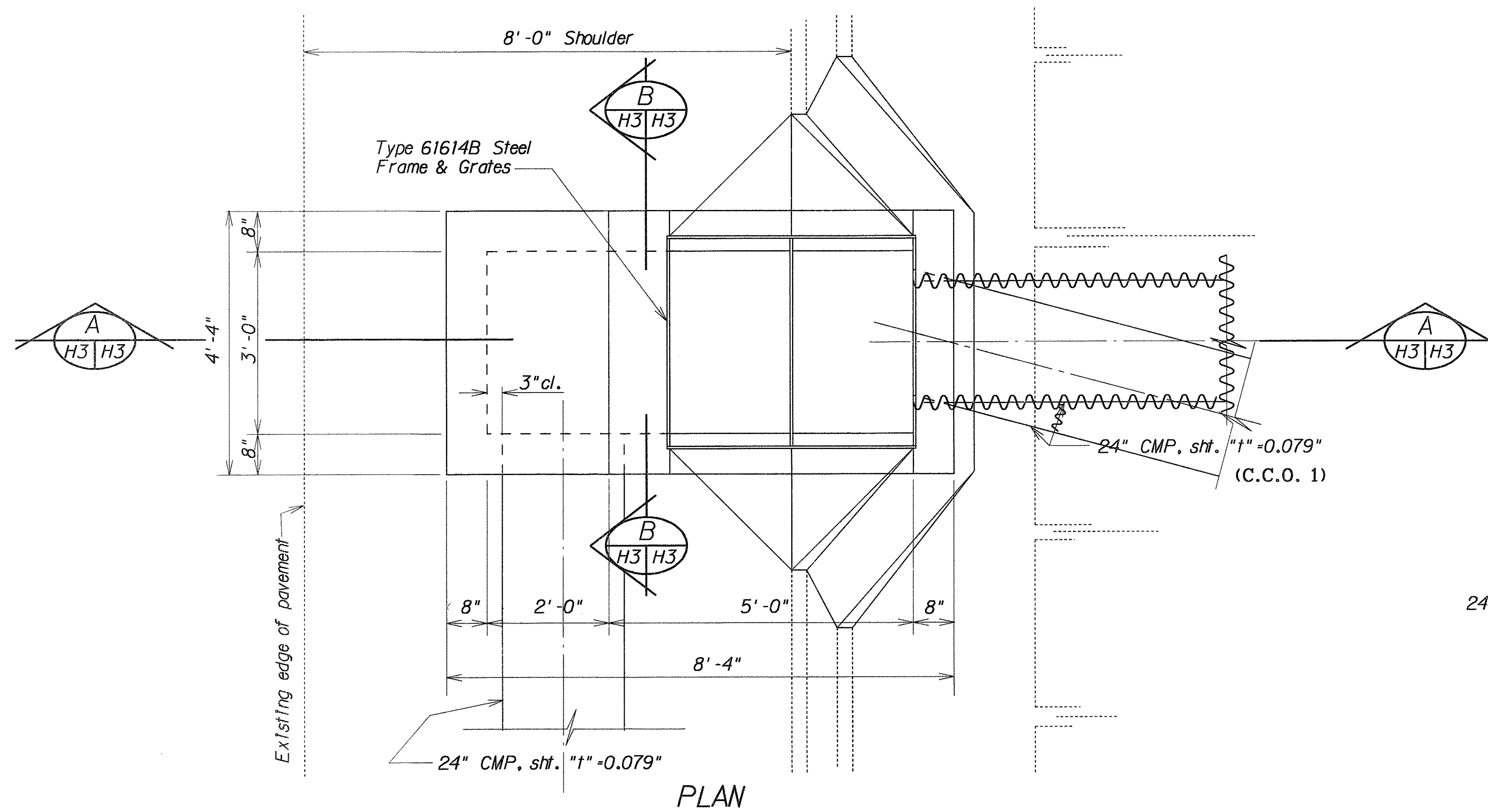
KALANIANA'OLE HIGHWAY
Modification to Existing Drainage
System Vicinity of M.P. 1.1
PROJ. NO. 72A-01-91M

Scale: As Noted Date: Apr., 1991
SHEET No. H2 OF 4 SHEETS

AS-BUILT

SURVEY PLOTTED BY	DATE
DRAWN BY	12/2/93
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO. 1000	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72A-01-91M	1991	5	6



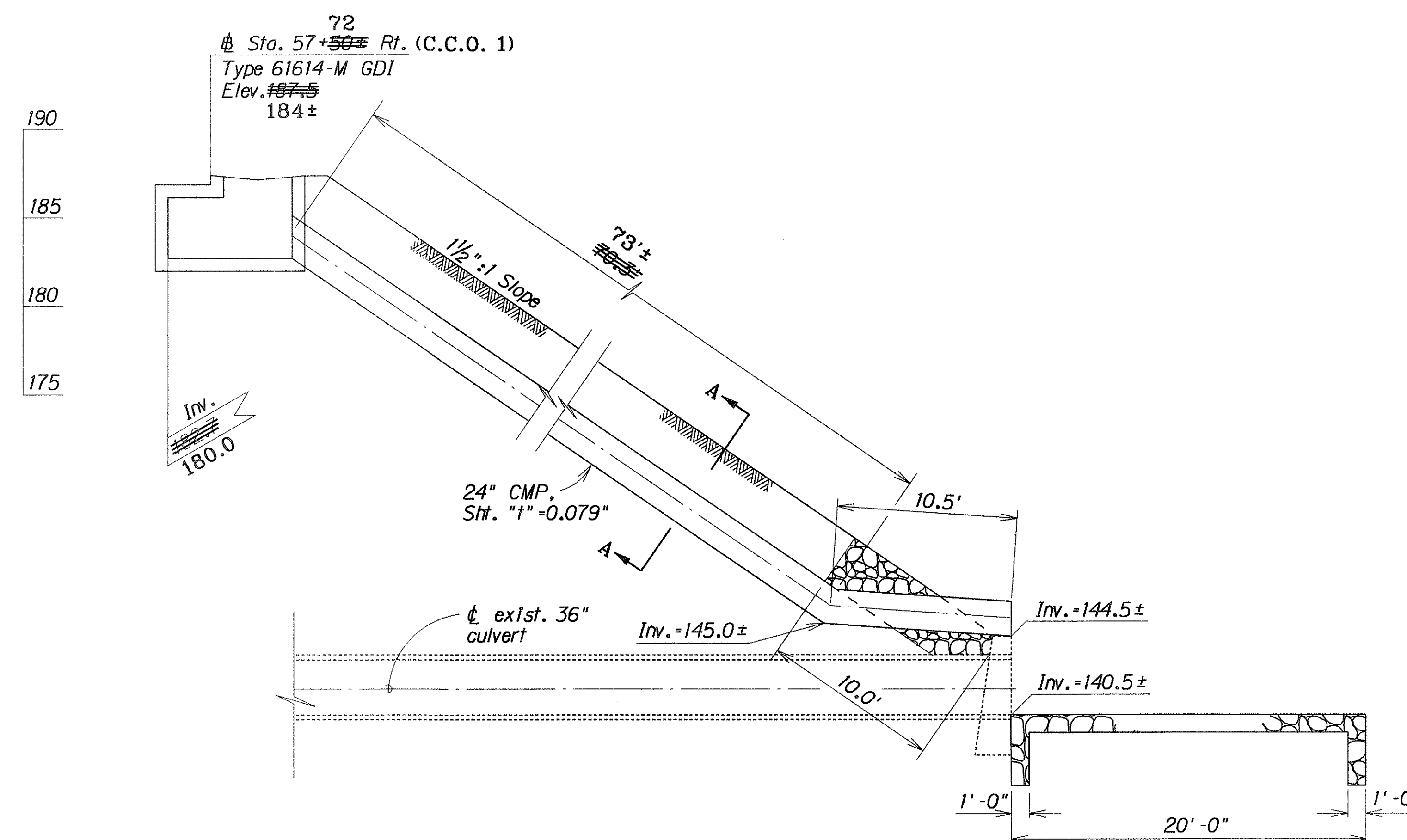
72
 DETAILS OF TYPE 61614-M GRATED DROP INLET AT STA. 57+50± RT.
 (C.C.O. 1)

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

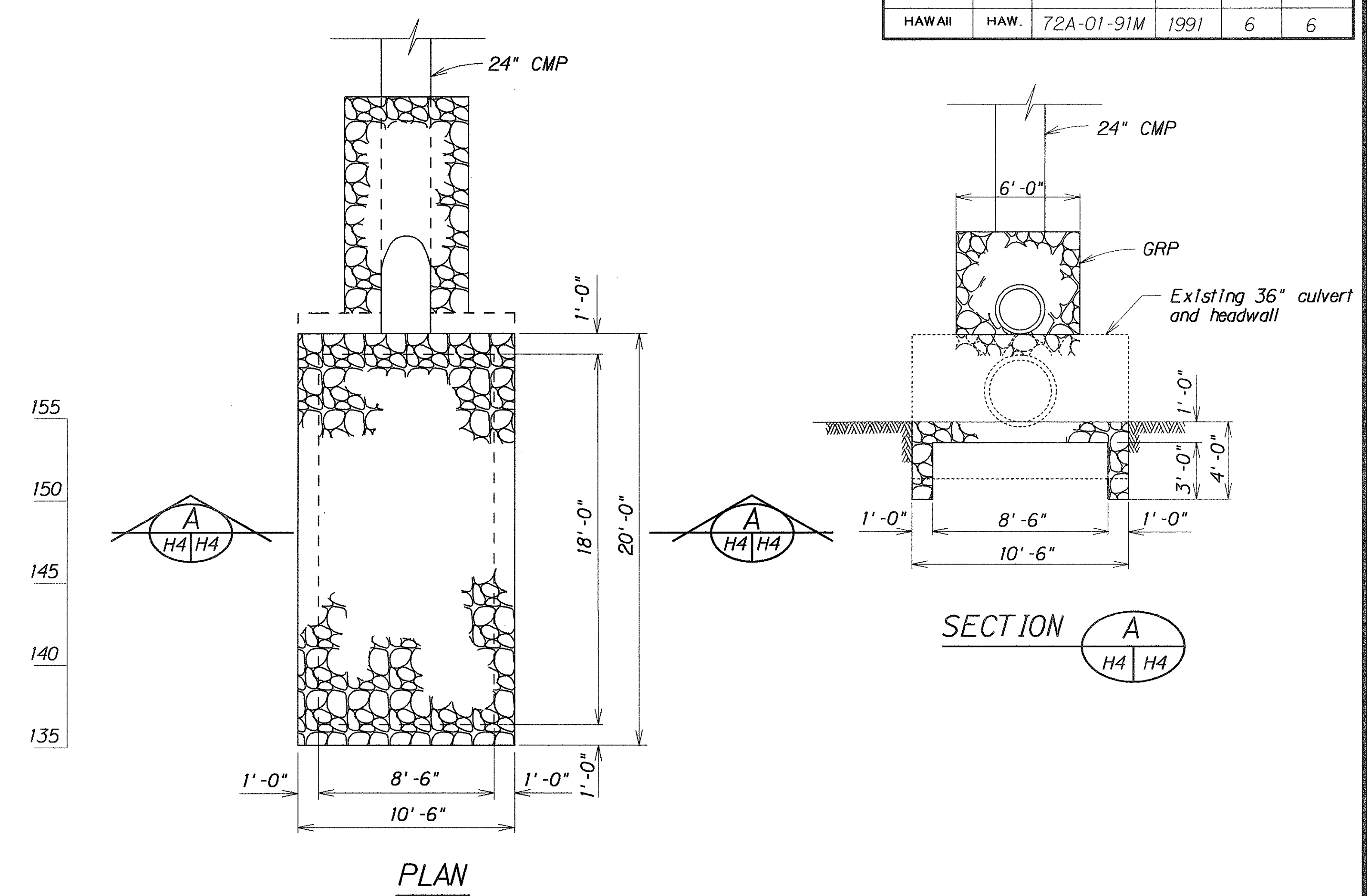
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
KALANIANA'OLE HIGHWAY Modification to Existing Drainage System Vicinity of M.P. 1.1 PROJ. NO. 72A-01-91M
Scale: 3/4" = 1'-0"
Date: Apr., 1991
SHEET No. H3 OF 4 SHEETS

AS-BUILT

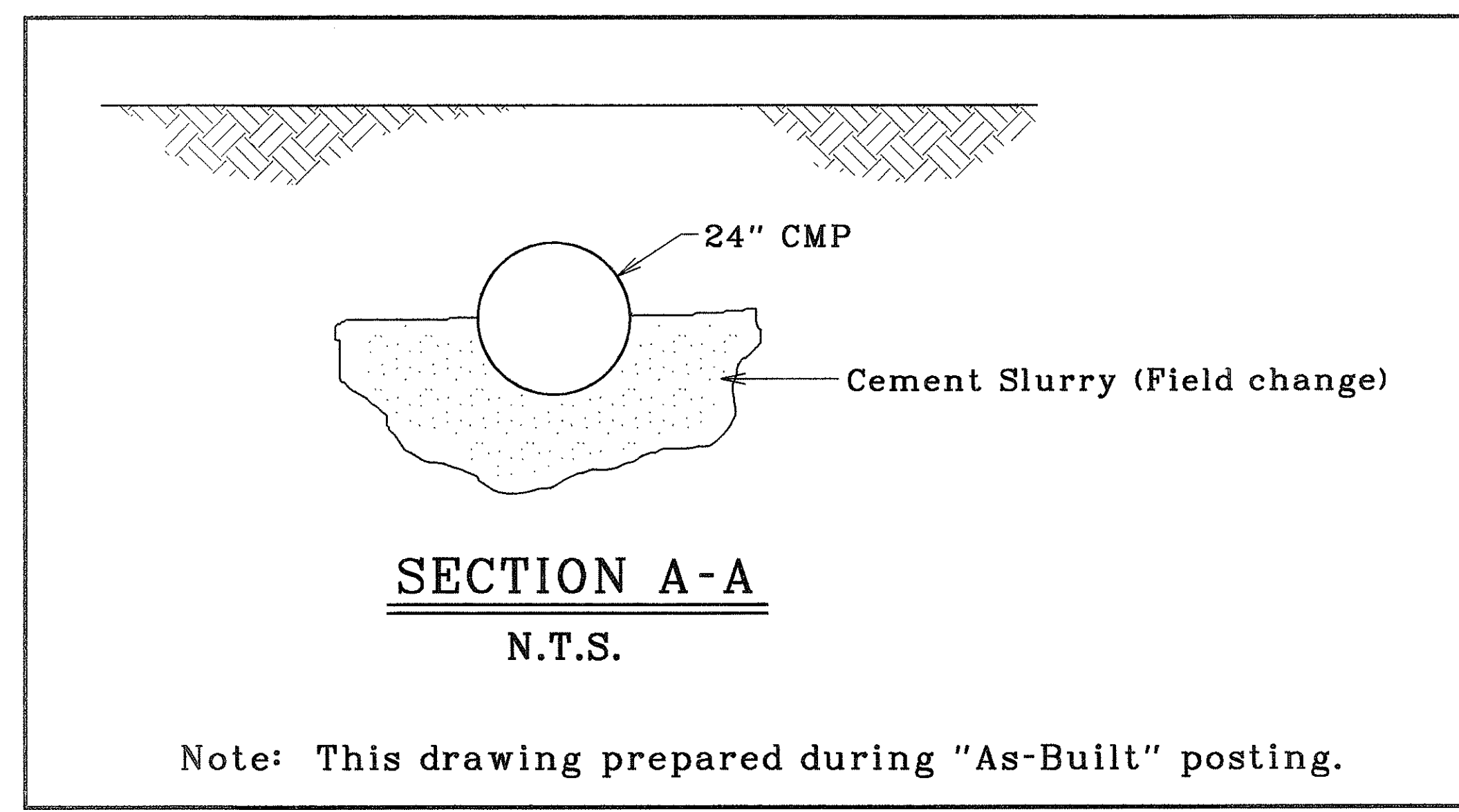
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72A-01-91M	1991	6	6



72
 PROFILE OF 24" CULVERT @ STA. 57+50 RT.
 Scale: 1" = 5'



GRP DETAIL
 Scale: 1/4" = 1'-0"



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

DRAINAGE DETAILS

KALANIANA'OLE HIGHWAY
Modification to Existing Drainage
System Vicinity of M.P. 1.1
 PROJ. NO. 72A-01-91M

Scale: As Noted Date: Apr., 1991

SHEET No. H4 OF 4 SHEETS

SURVEY PLOTTED BY	DATE
PLAN	12-7-93
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
N.	2097