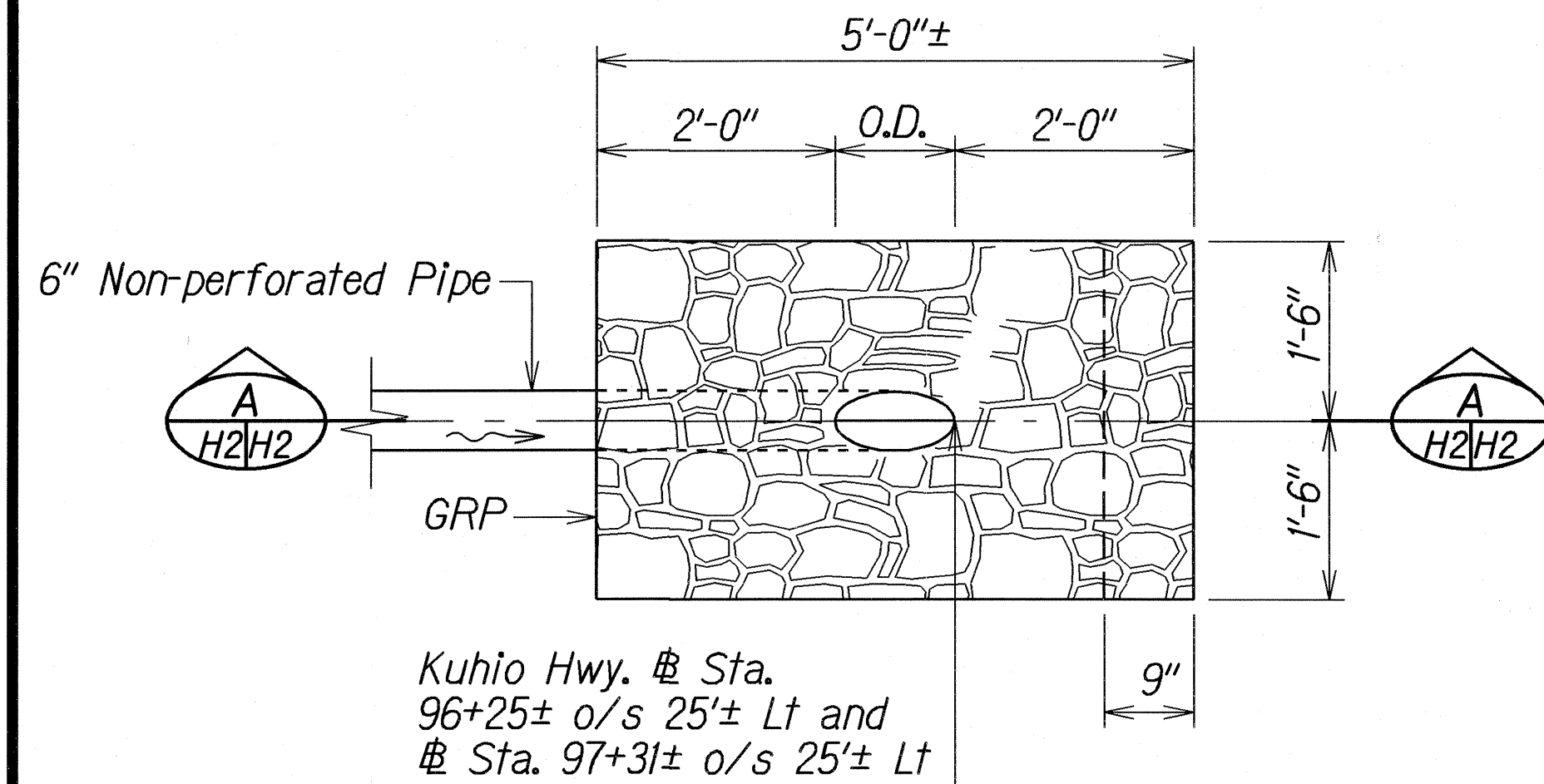
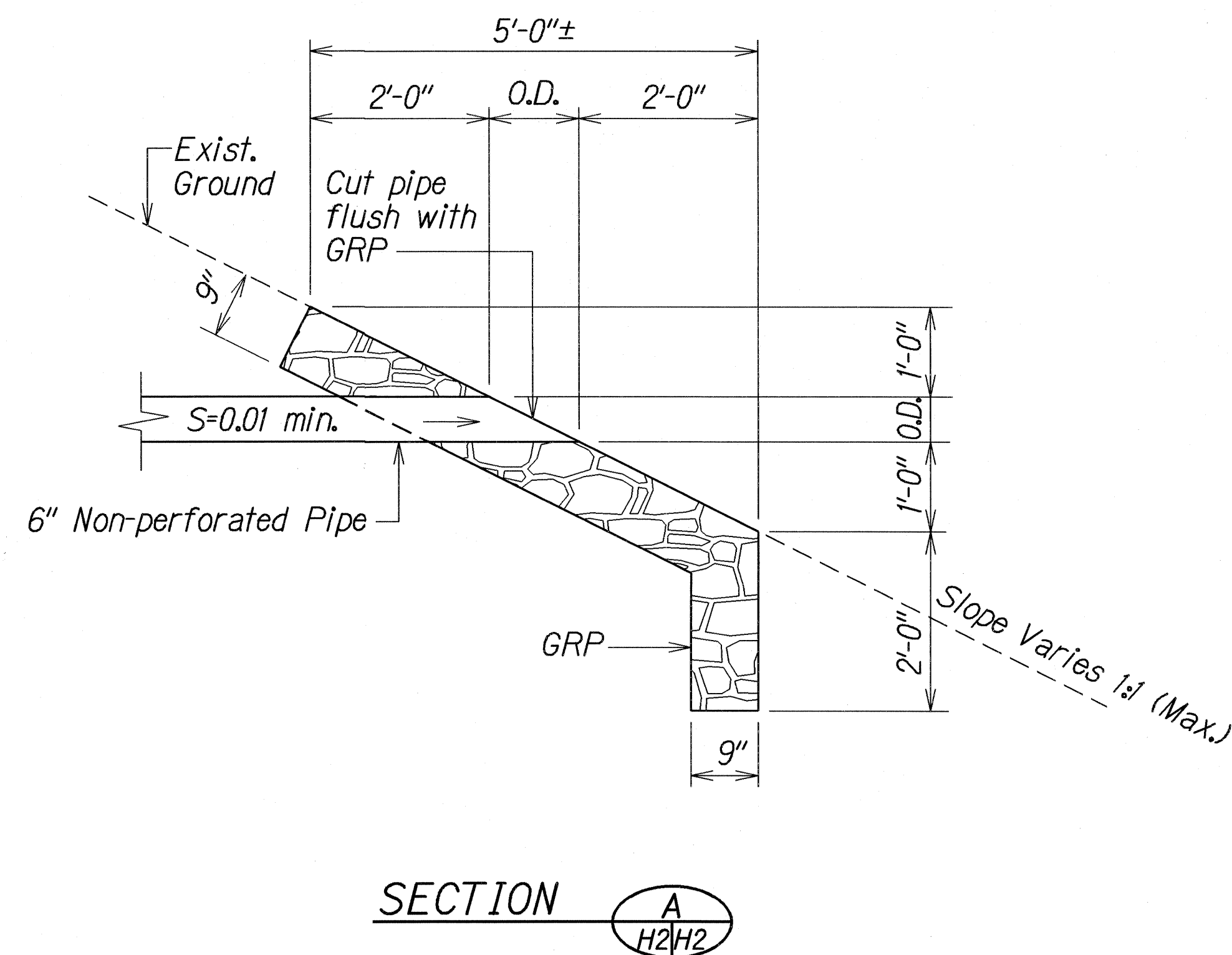


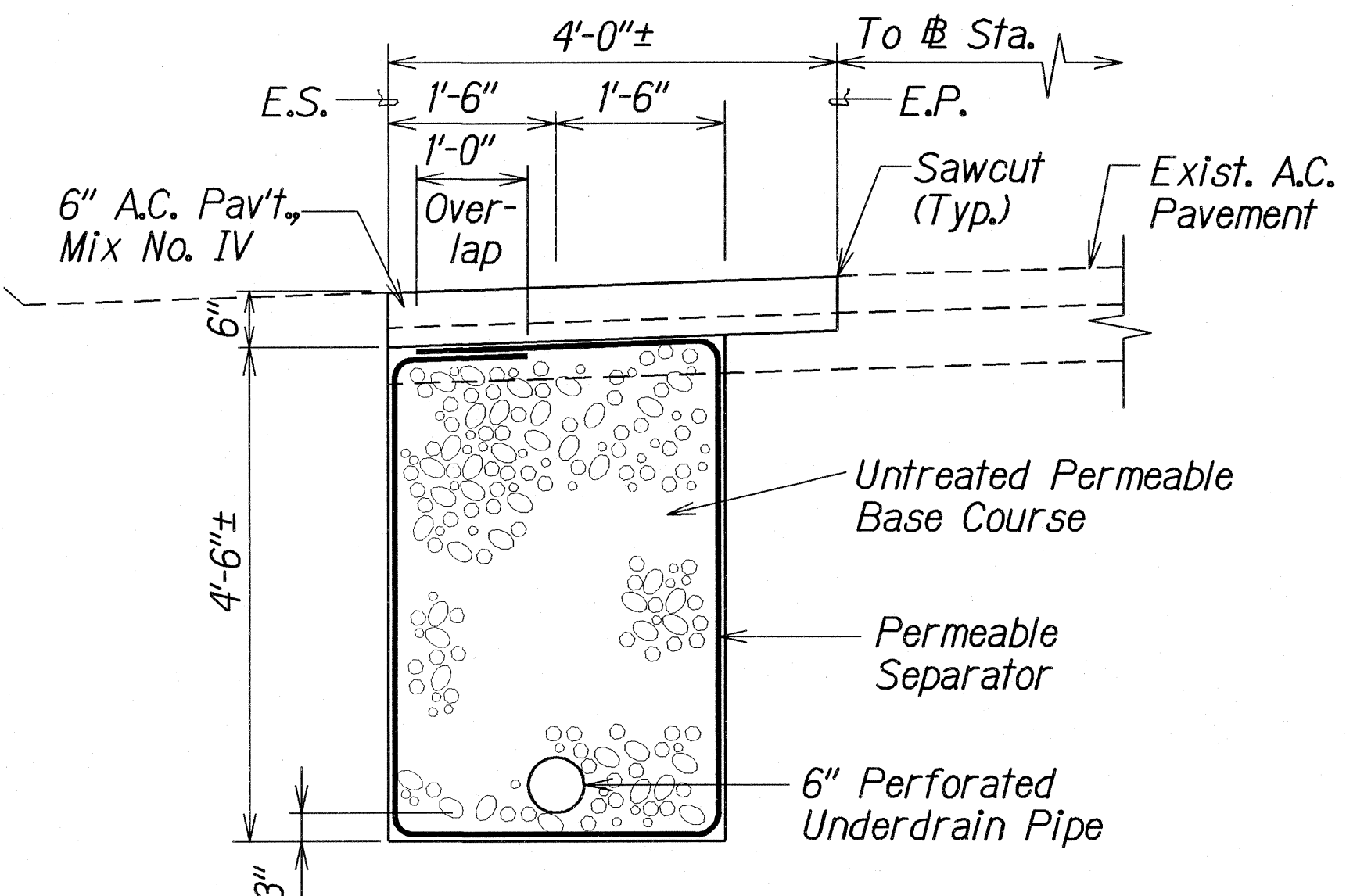
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HAWAII	HAW.	56AC-01-04	2008	6	9



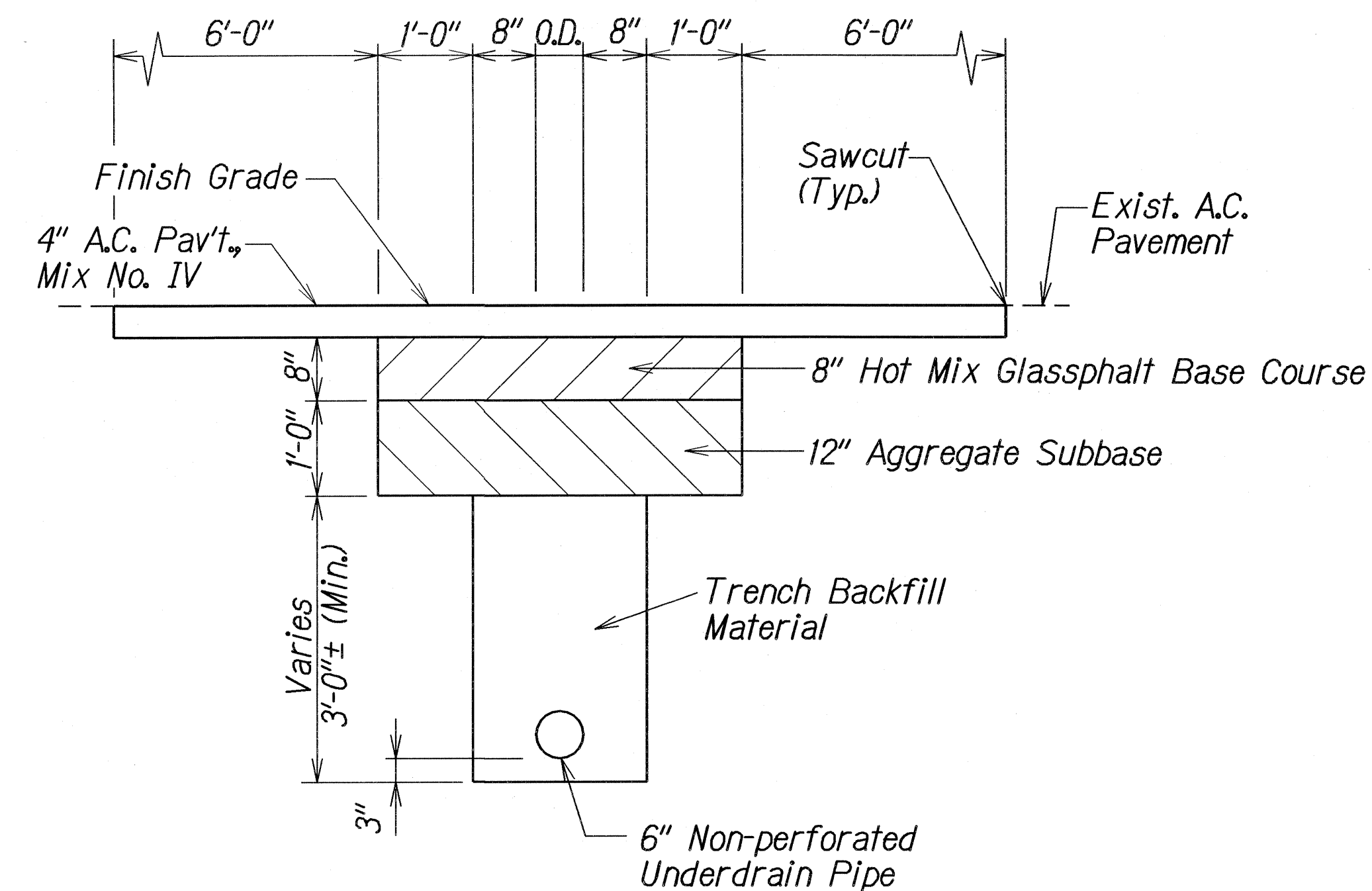
PLAN



DETAILS OF TYPE "1" UNDERDRAIN OUTLET



TYPICAL SECTION OF UNDERDRAIN
Sta. 97+31± Lt. to # Sta. 100+70 Lt. And
Sta. 96+18± Rt. to # Sta. 100+70 Rt.



TYPICAL TRENCH DETAIL OF 6" NON-PERFORATED PIPE
(Kuhio Hwy. # Sta. 96+25 Rt. to # Sta. 96+25 o/s 25'± Lt.)

Note: The actual depth of the underdrain shall be determined in the field. The 6" underdrain to the depth as shown on the plans shall be paid for under Item 605.1000 6-Inch Underdrain. Additional underdrain depth for the entire length of underdrain shown on the plans shall be paid for on a force account basis under Item 605.1500 Additional Underdrain Depth. Additional Underdrain Depth is for excavation, furnishing and compacting untreated permeable base course or trench backfill material, furnishing and placing permeable separator, and furnishing labor, material, tools, equipment, and all incidentals needed to complete the work.

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	5/30/07
NOTE BOOK	DESIGNED BY	
5/31/07	CHECKED BY	
5/31/07	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

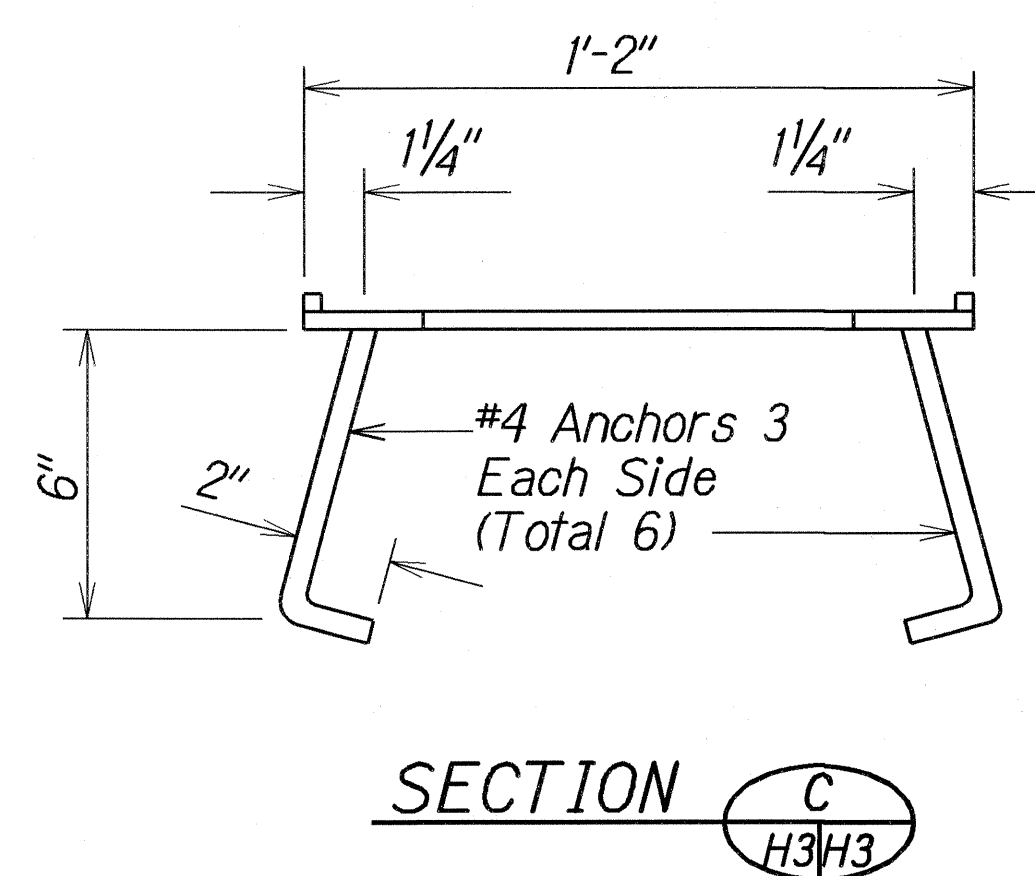
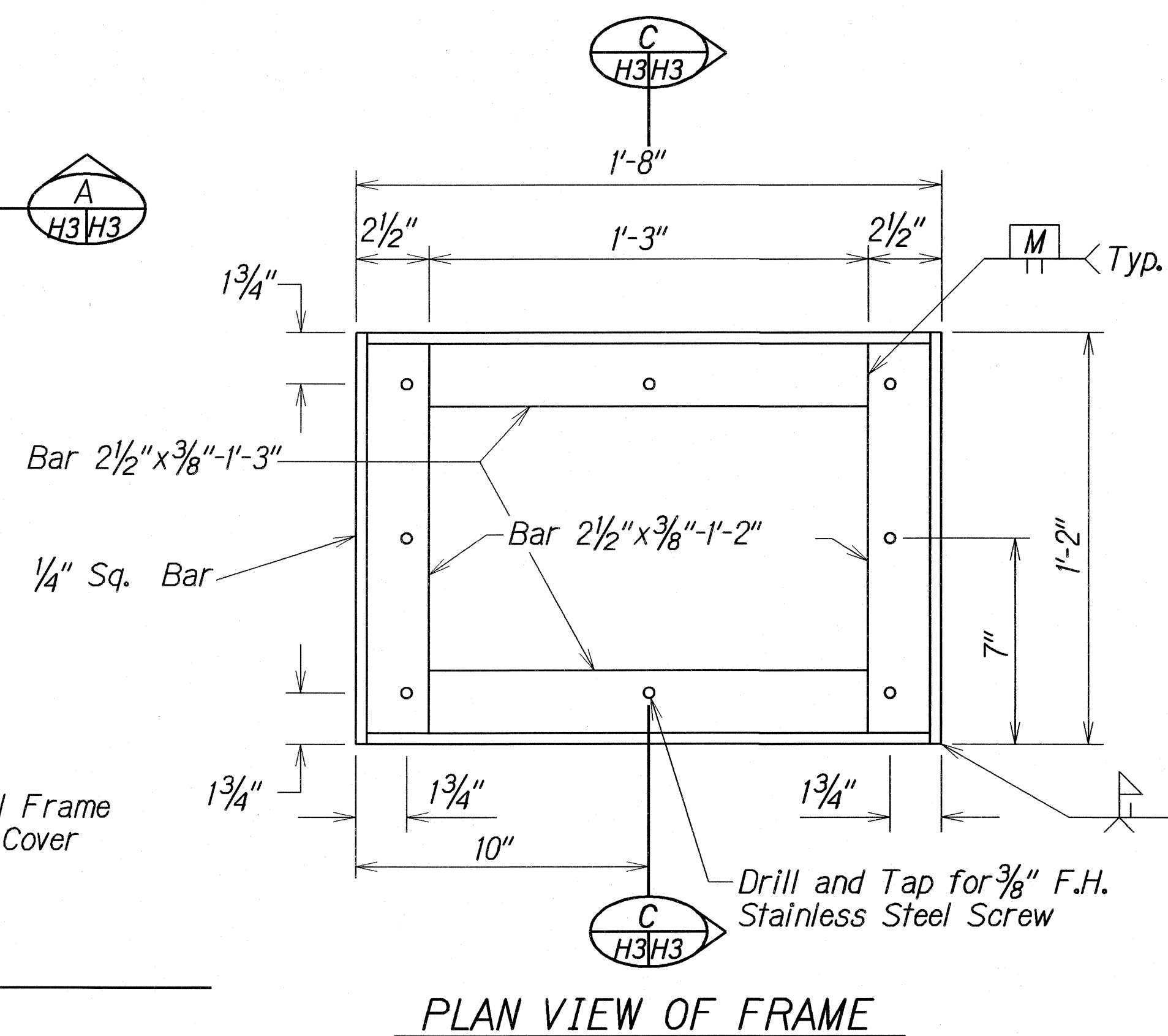
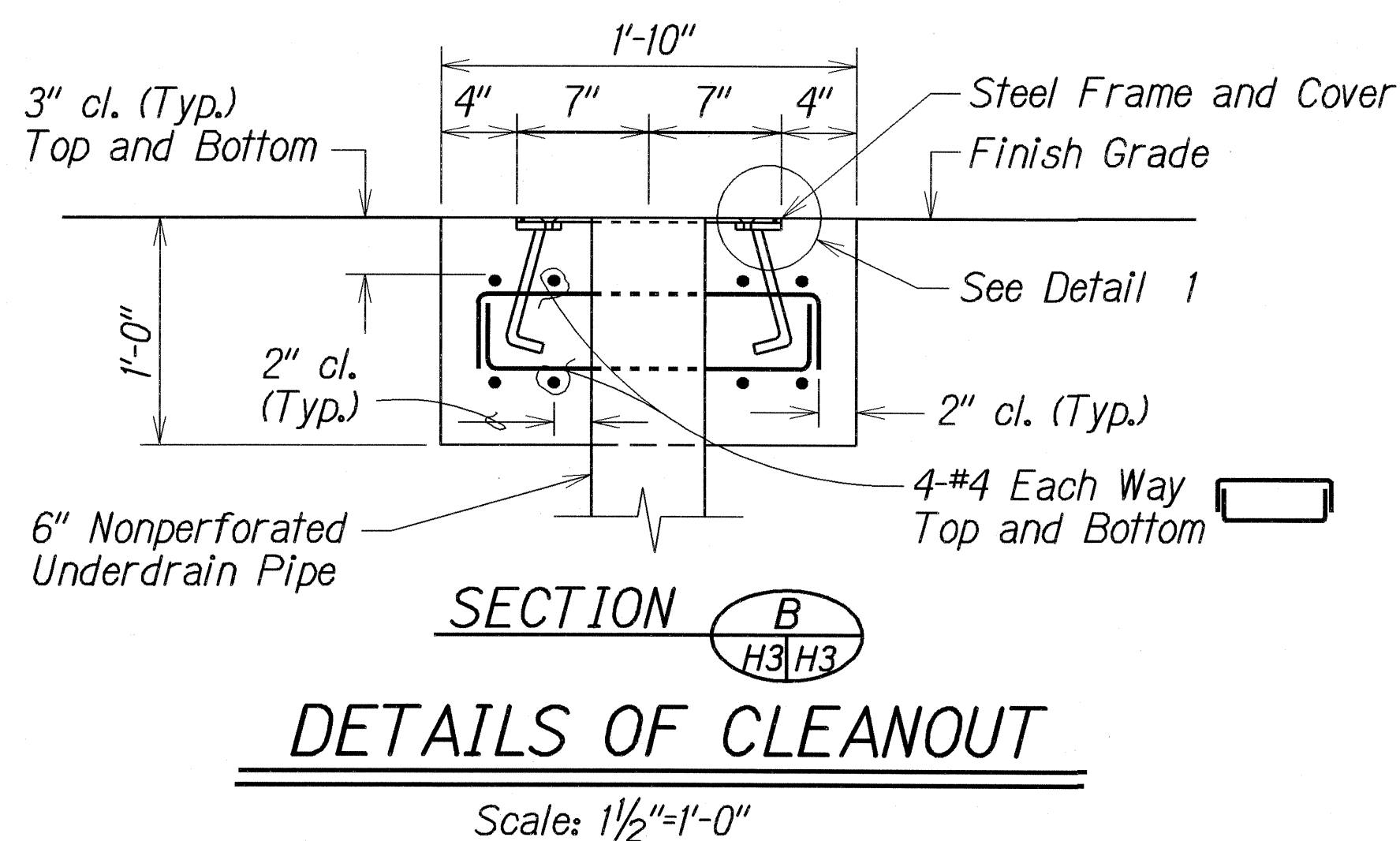
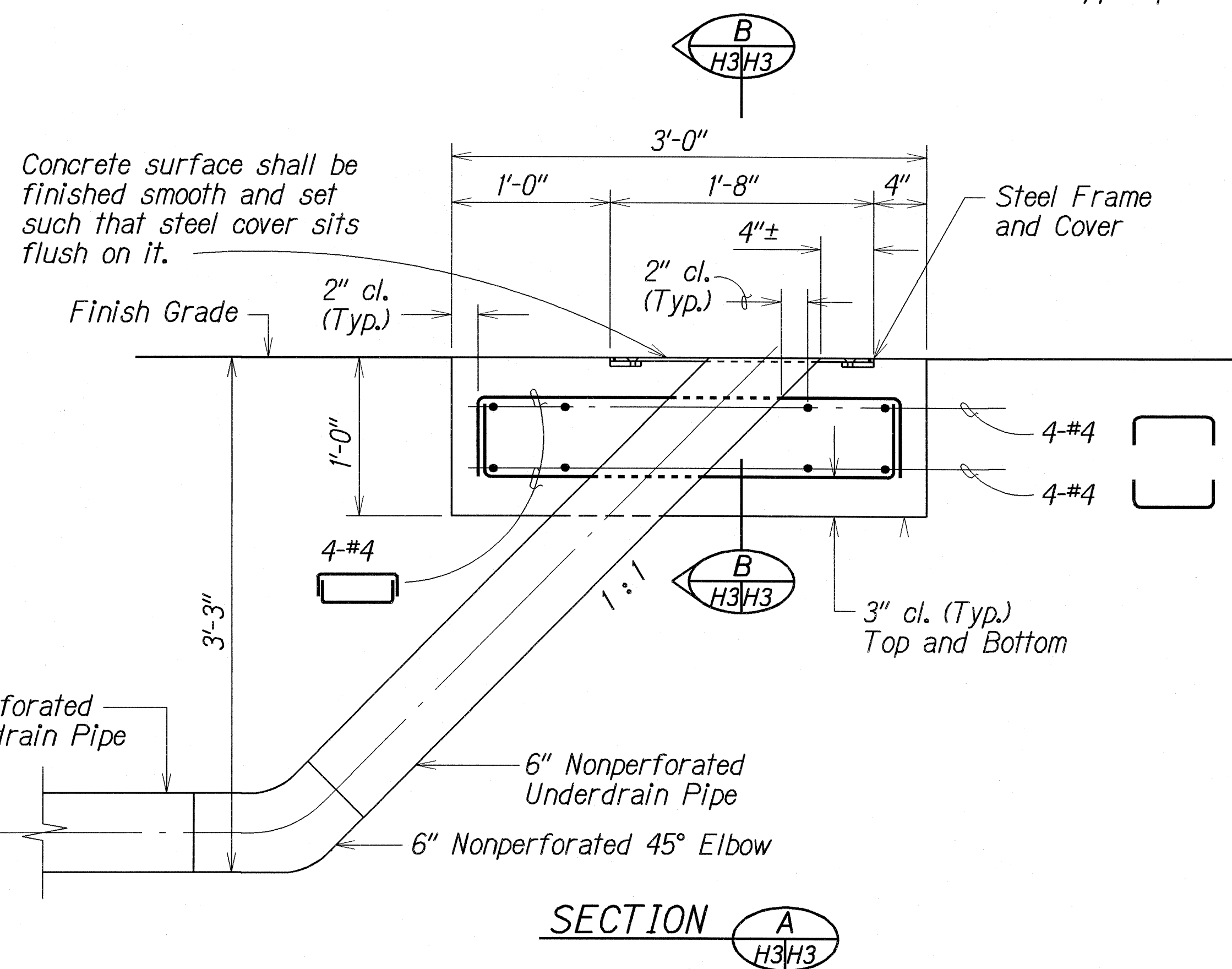
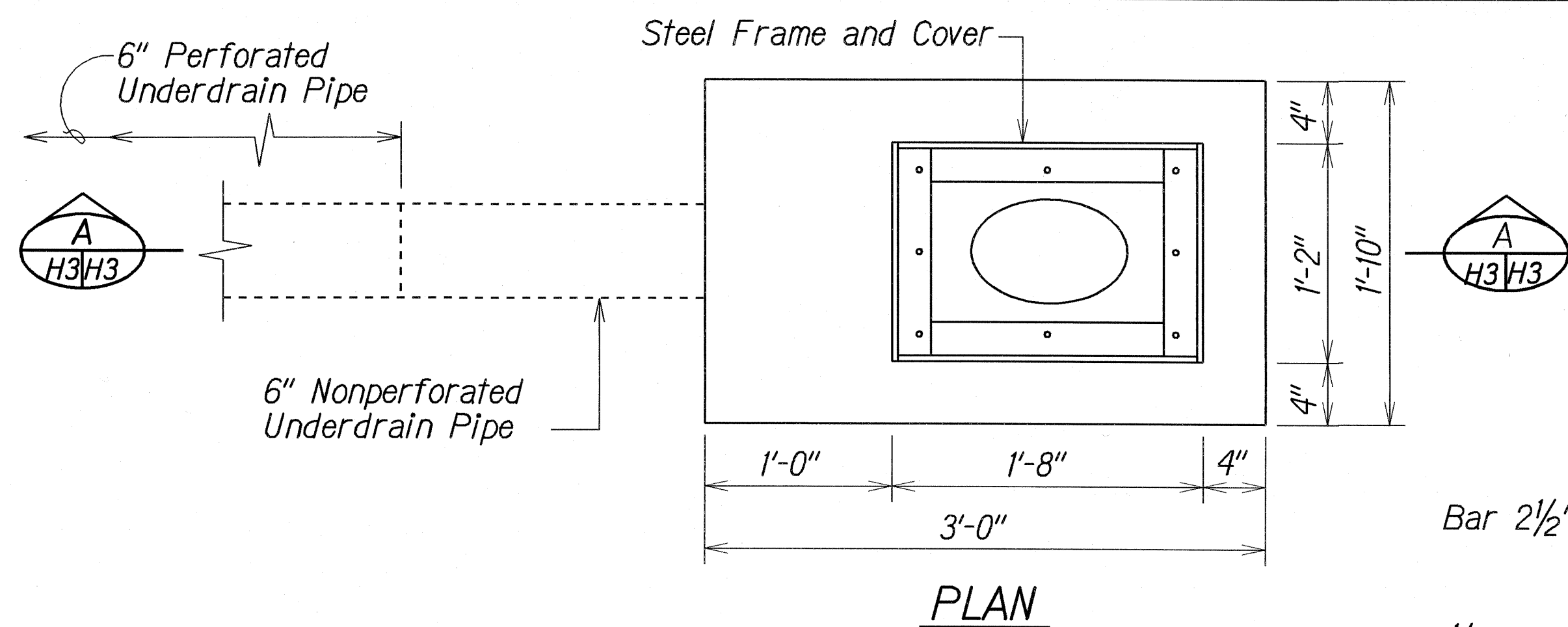
DRAINAGE DETAILS

KUHIO HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of M.P. 18.3
Proj. No. 56AC-01-04

Scale: 3/4"=1'-0" Date: June 2007

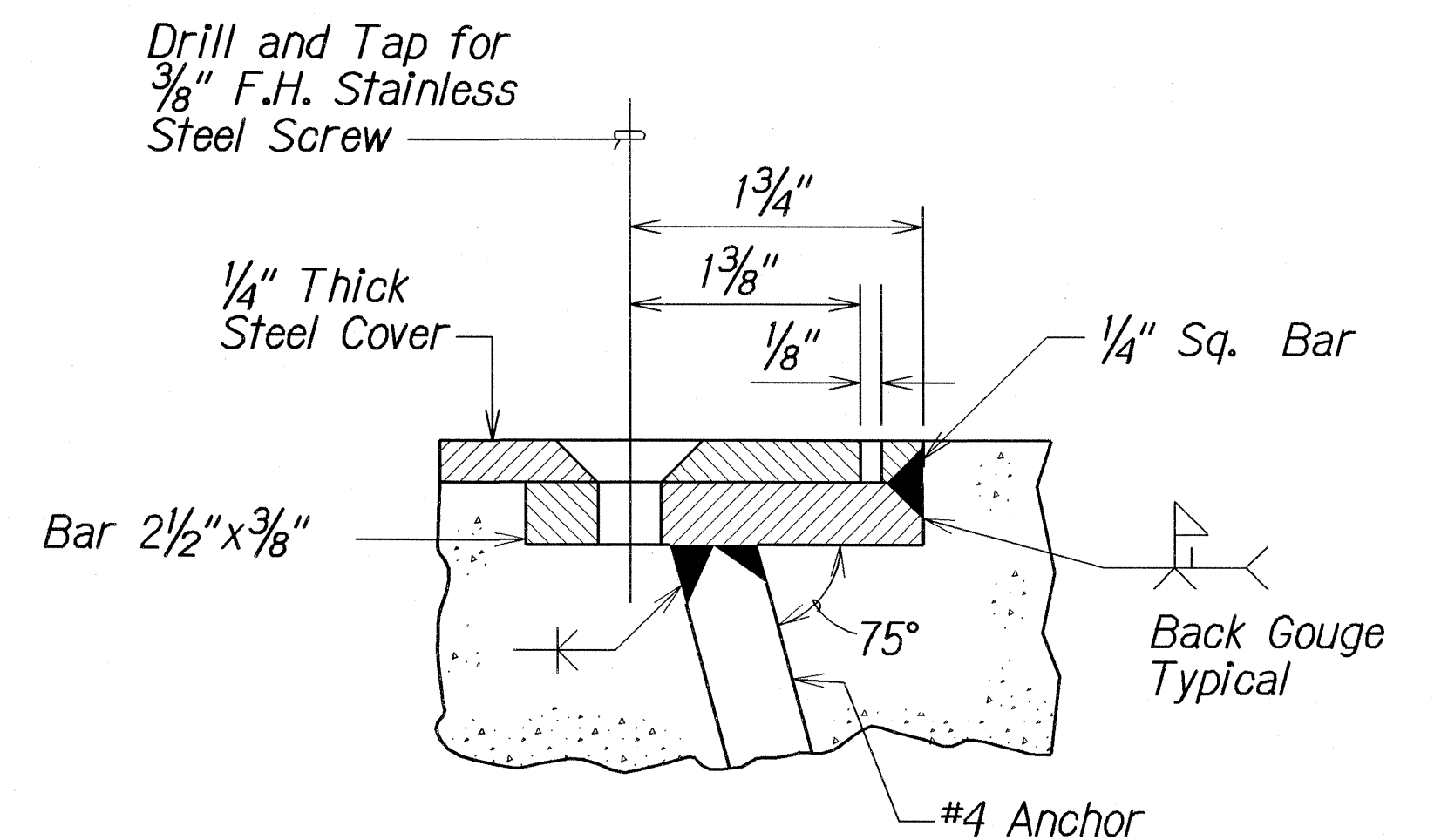
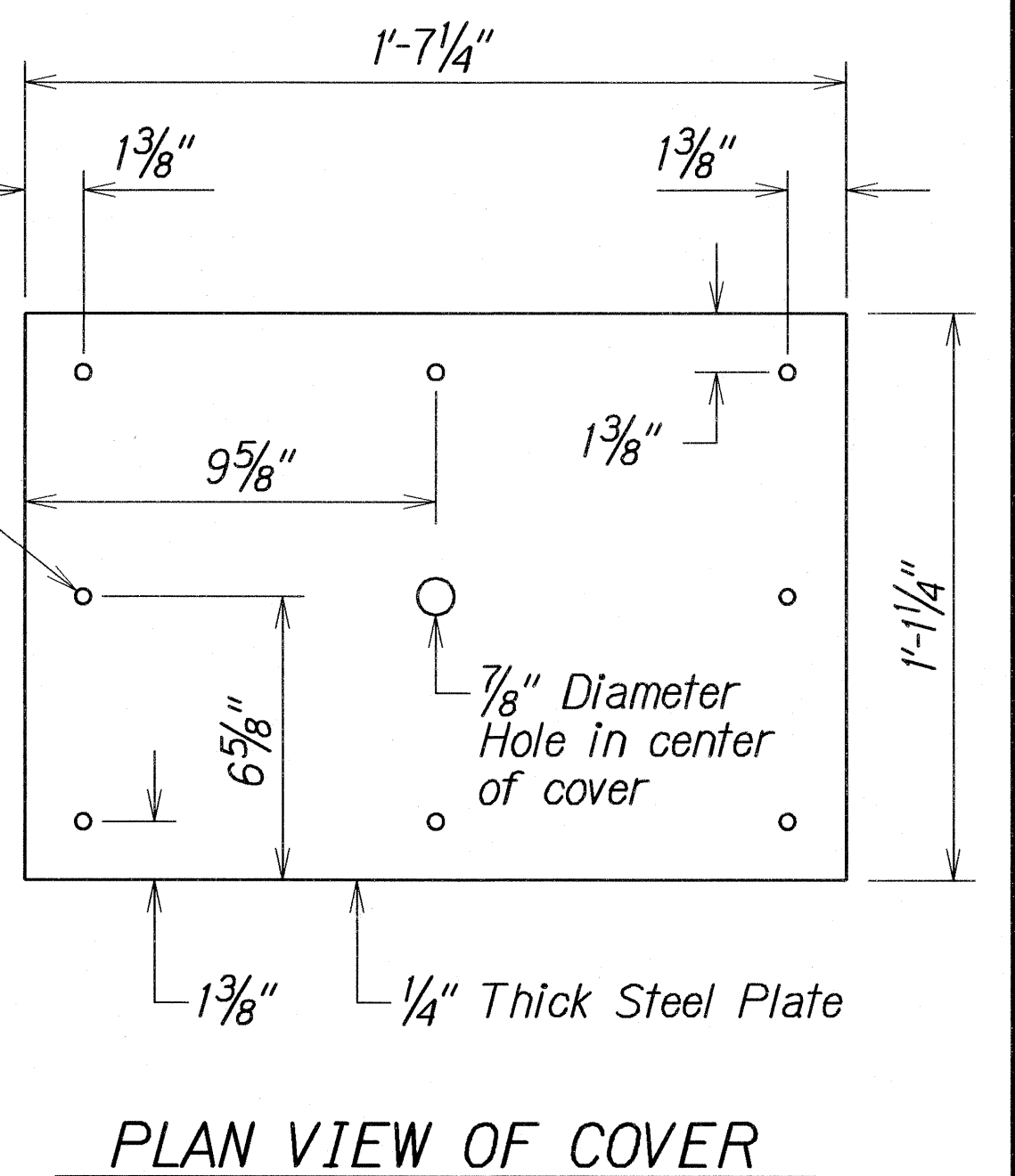
SHEET No. H2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56AC-01-04	2008	7	9



3/8" F.H. Stainless Steel Screws See Detail 1

Back Gouge Typical Each Corner



DETAILS OF STEEL FRAME AND COVER FOR CLEANOUT

Scale: 3"=1'-0"

NOTE:

All Steel Parts shall be zinc-coated in accordance with the requirements of ASTM A123 after fabrication.

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HIGHWAYS DIVISION

DRAINAGE DETAILS

KUHIO HIGHWAY DRAINAGE IMPROVEMENTS

Vicinity of M.P. 18.3

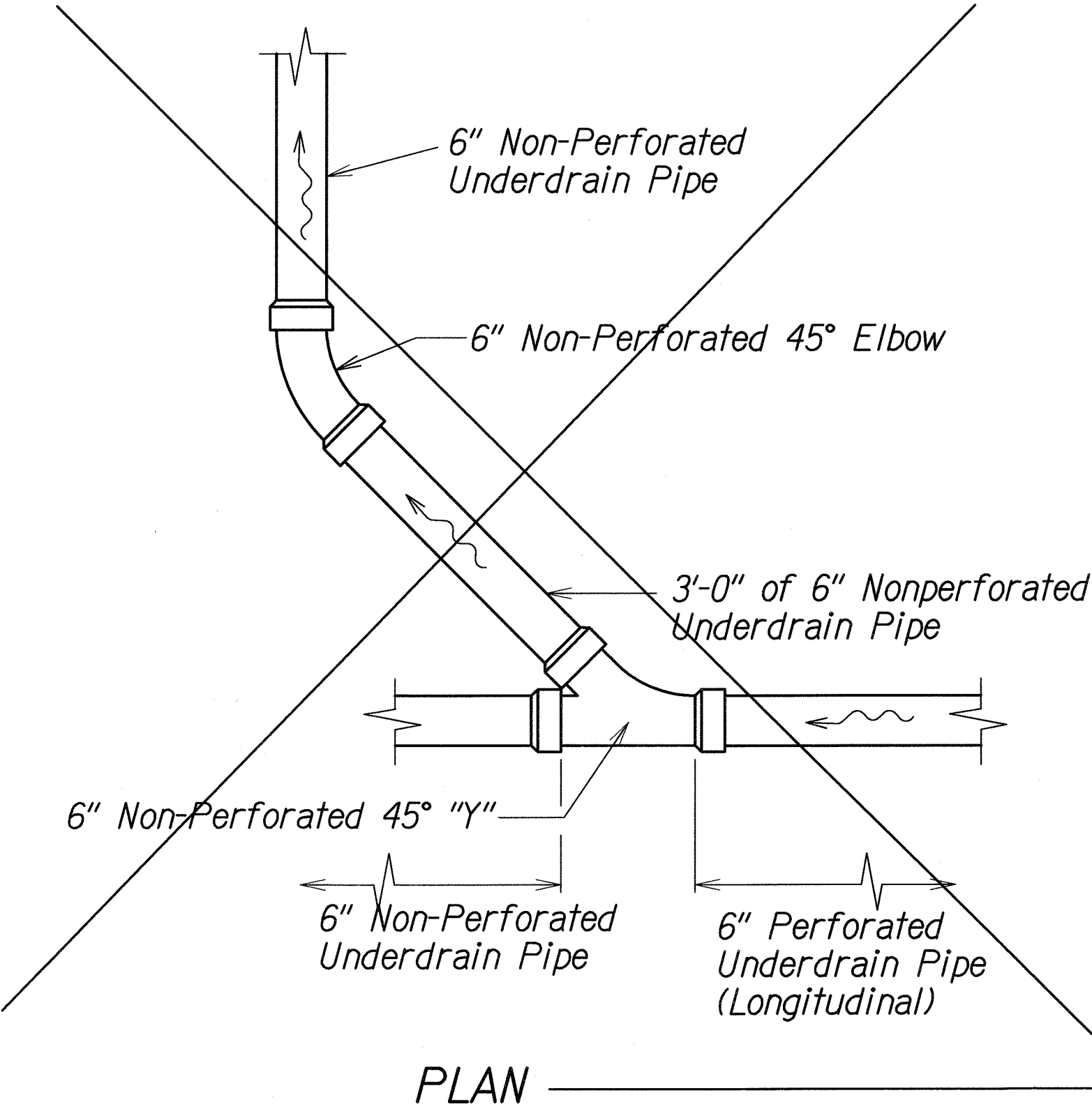
Proj. No. 56AC-01-04

Scale: As Shown Date: June 2007

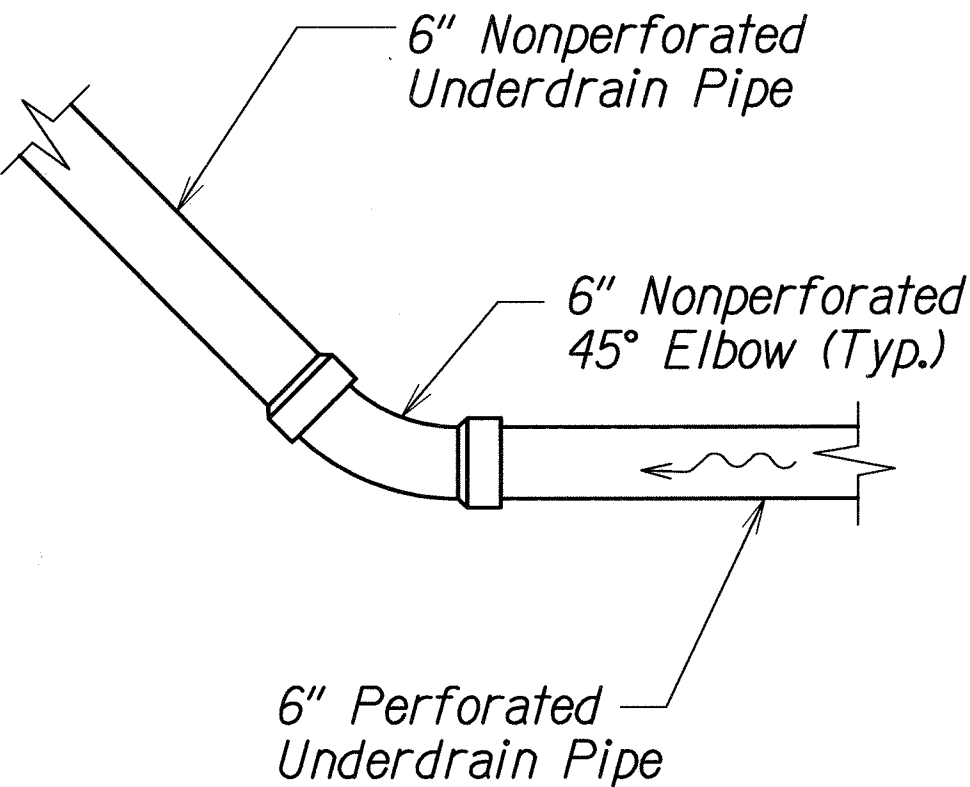
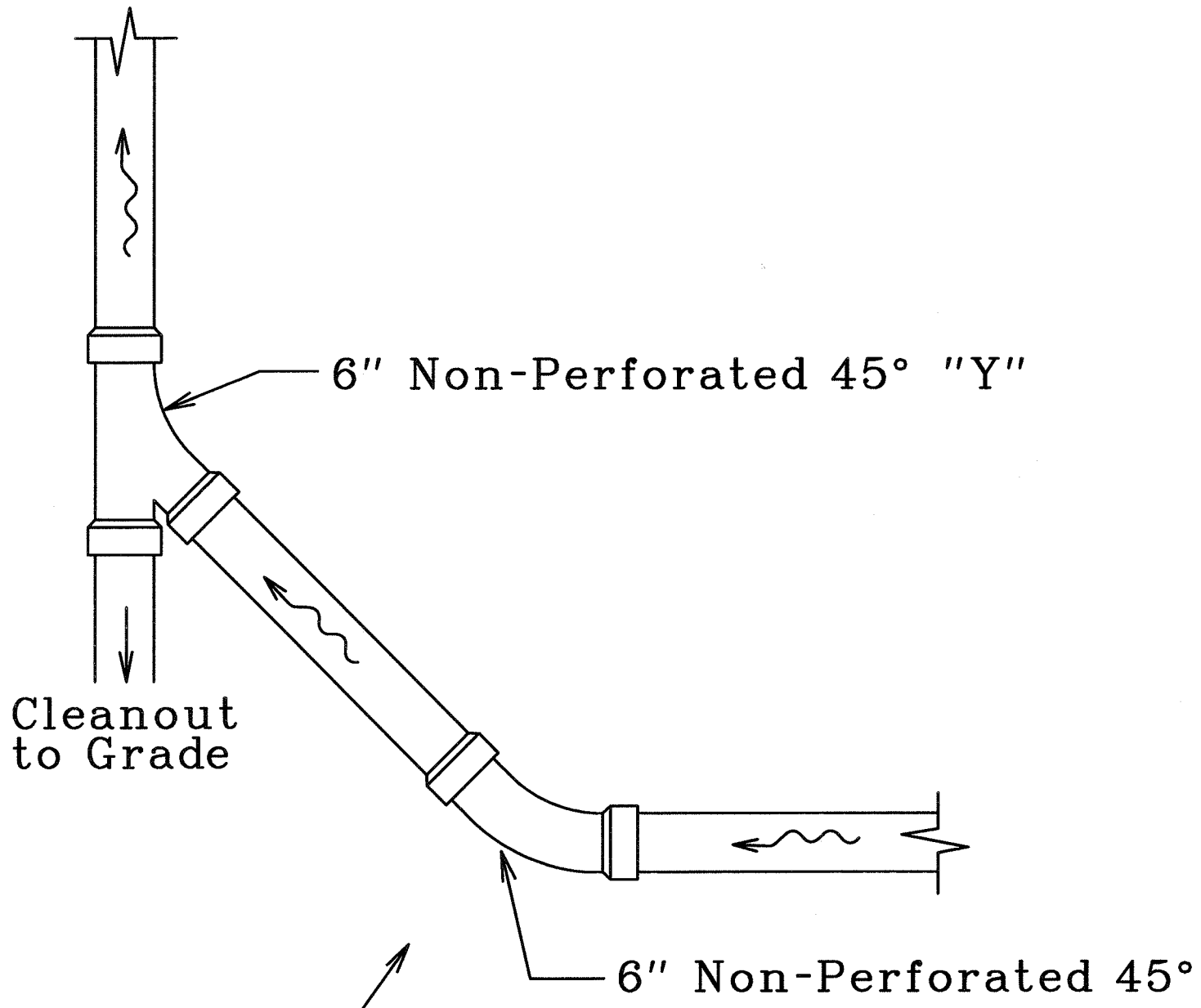
SHEET No. H3 OF 4 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56AC-01-04	2008	8	9



DETAILS OF UNDERDRAIN BEND AT STA. 96+25± RT.



DETAILS OF UNDERDRAIN BEND AT STA. 97+31± LT.



ORIGINAL PLAN	DATE	6/30/07
SURVEY PLOTTED BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

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
KUHIO HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of M.P. 18.3
Proj. No. 56AC-01-04
Scale: 3/4"=1'-0" Date: June 2007
SHEET No. **H4** OF **4** SHEETS