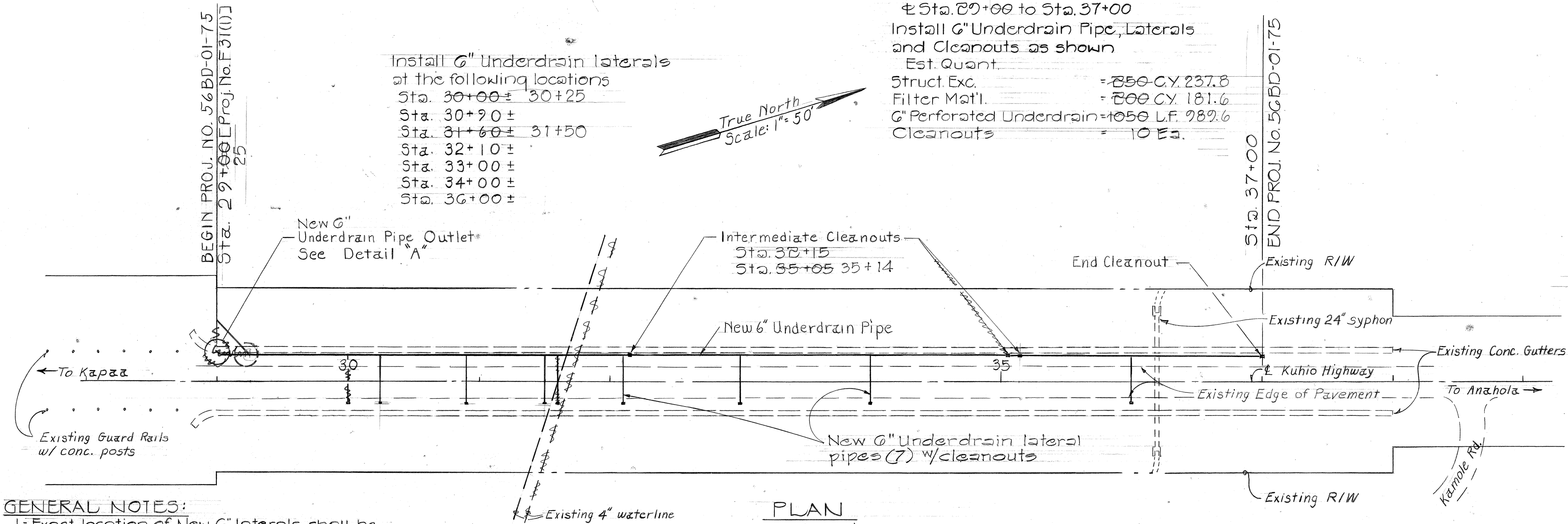
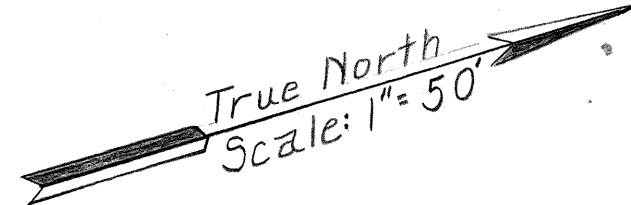


DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56BD-01-75	1977	5	14

± Sta. 29+00 to Sta. 37+00
Install 6" Underdrain Pipe, Laterals
and Cleanouts as shown
Est. Quant.
Struct. Exc. = 850 C.Y. 237.6
Filter Mat'l. = 800 C.Y. 181.6
6" Perforated Underdrain = 1050 L.F. 787.6
Cleanouts = 10 Ea.

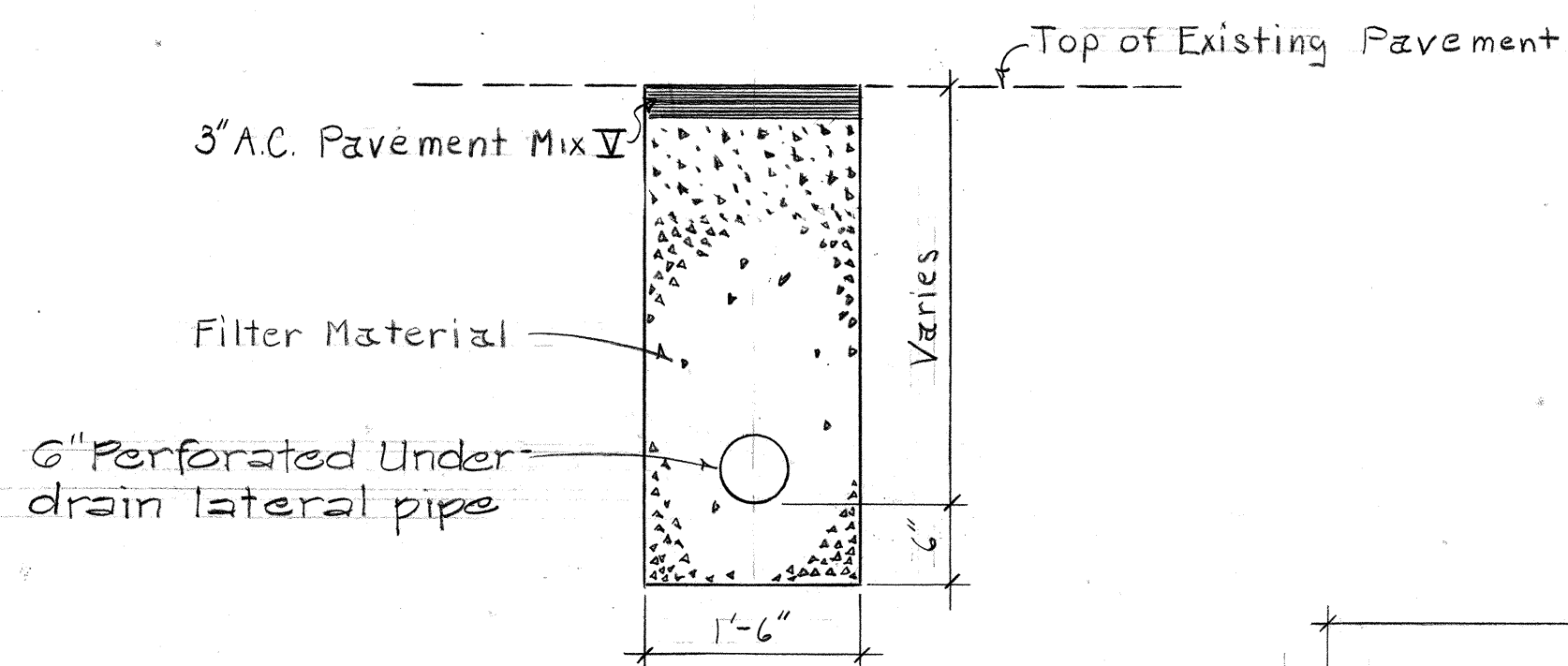
Install 6" Underdrain laterals
at the following locations
Sta. 30+00 ± 30+25
Sta. 30+20 ±
Sta. 31+60 ± 31+50
Sta. 32+10 ±
Sta. 33+00 ±
Sta. 34+00 ±
Sta. 36+00 ±



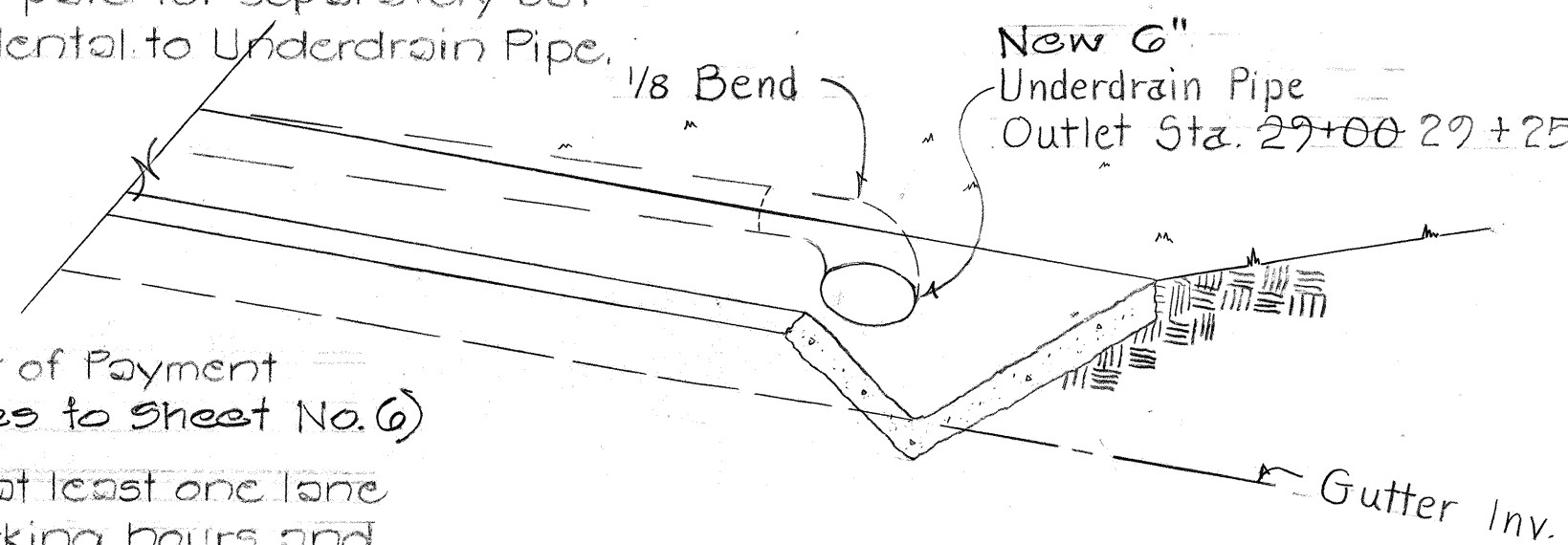
PLAN
Scale: 1" = 50'

GENERAL NOTES:

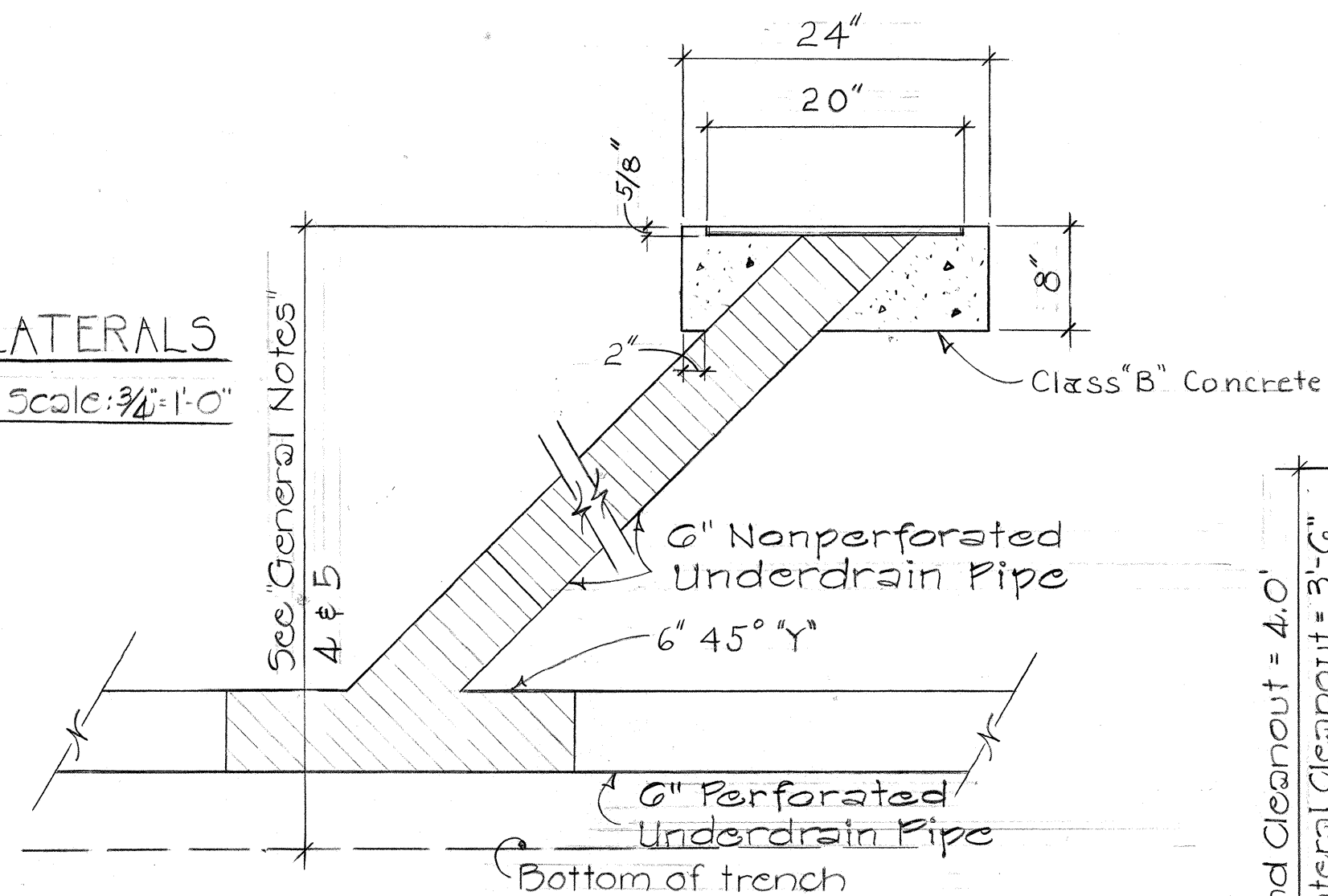
- Exact location of New 6" laterals shall be determined in the field.
- All work necessary to restore Pavement Markers, Markings and Clearing Surface shall be considered incidental to the various Items of Work.
- Use Existing Conc. Gutter as Grade Reference Point.
- Depth to bottom of trench between Sta. 29+00 to Sta. 35+00 shall be 4.0'.
- Depth to bottom of trench between Sta. 35+00 to Sta. 36+20 shall vary from 4.0' to 6.17'.
- Depth to bottom of trench between Sta. 36+20 to Sta. 37+00 shall vary from 6.17' to 4.0'.
- Underdrain laterals in the shoulder area shall be topped with one foot embankment material similar to longitudinal Underdrain pipe section.
- All fittings necessary to construct Underdrain bends and cleanouts will not be paid for separately but shall be considered incidental to Underdrain Pipe.



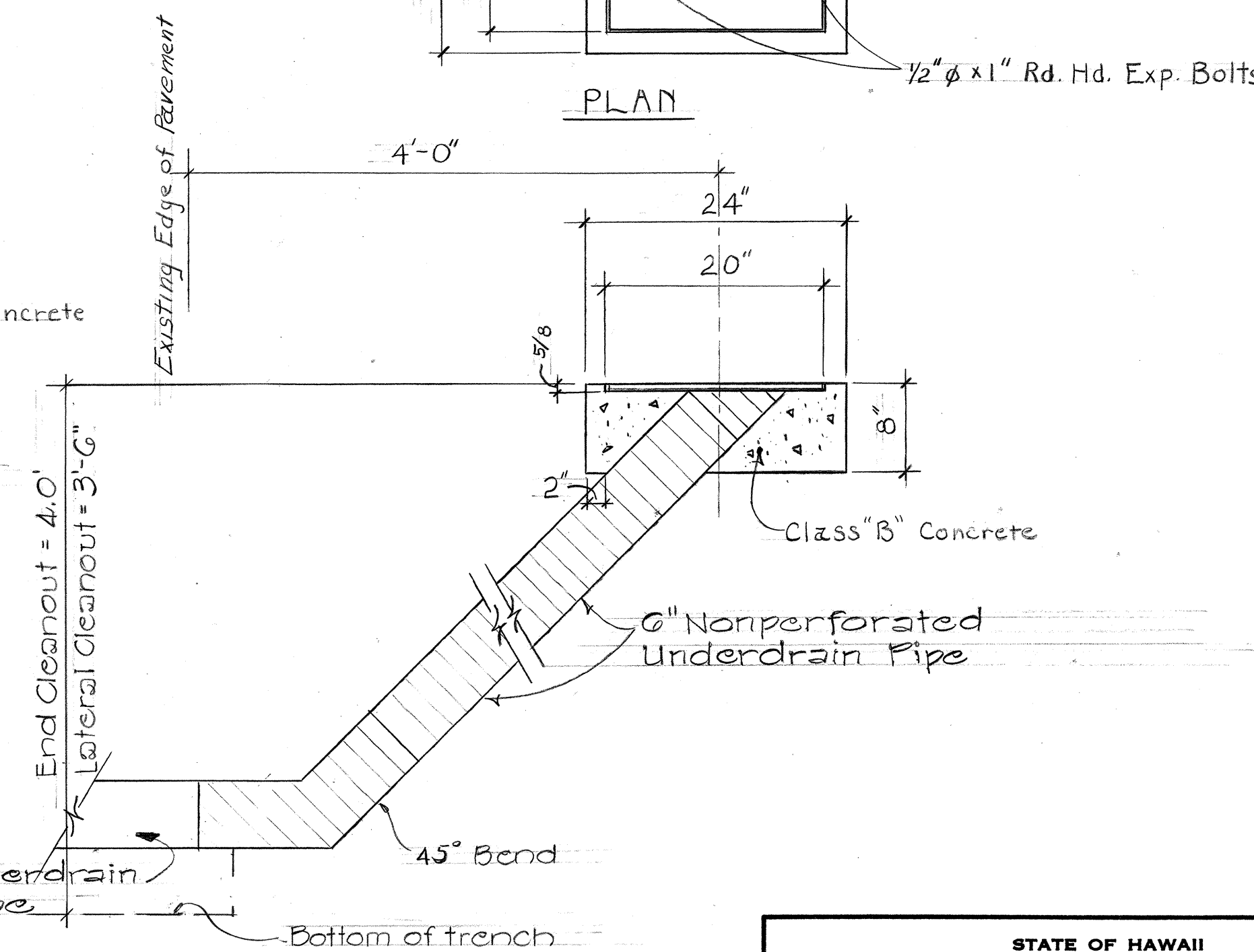
TYPICAL SECTION ~ LATERALS
UNDER PAVEMENT Scale: 3/4" = 1'-0"



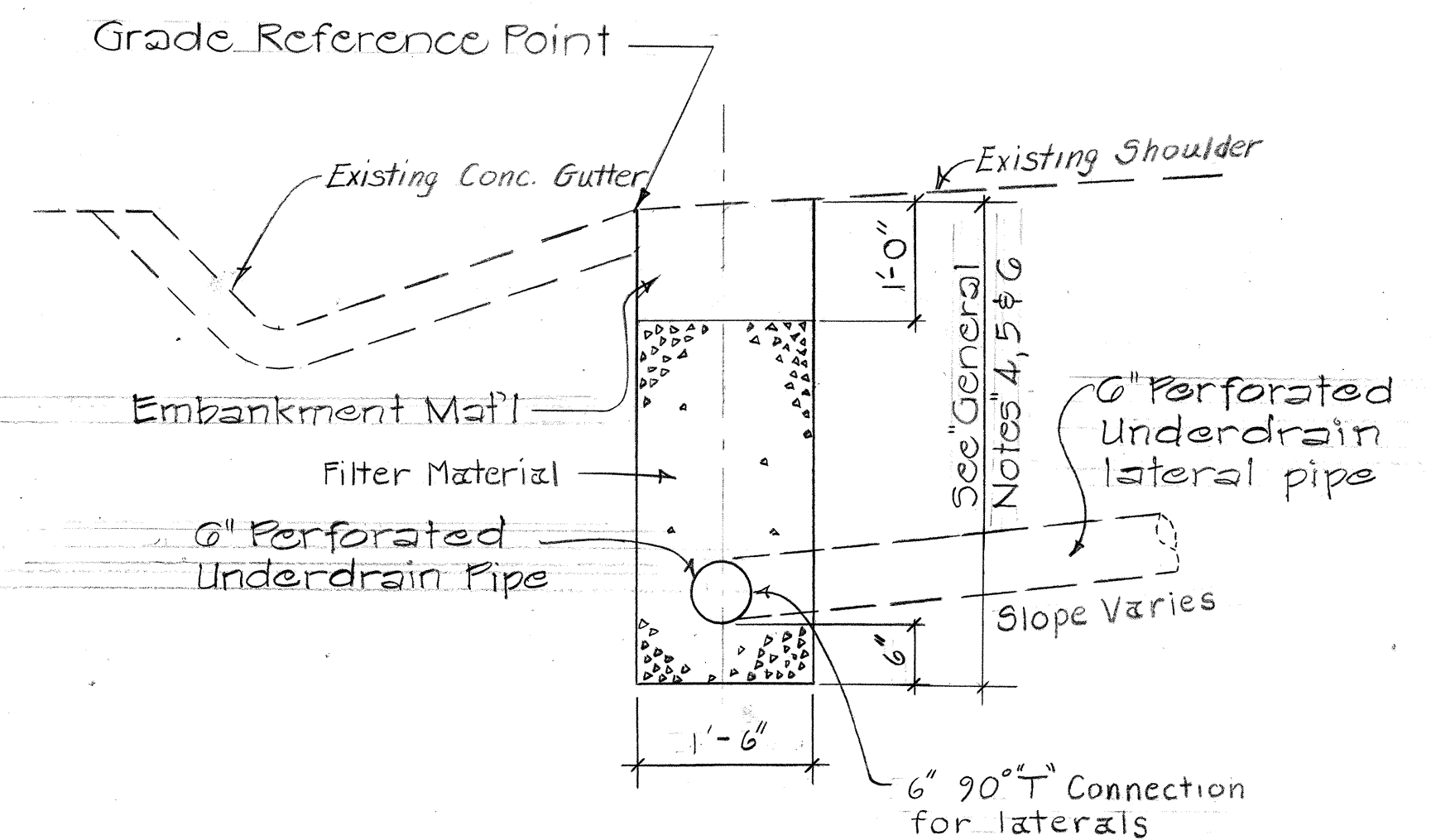
DETAIL "A" N.T.S.



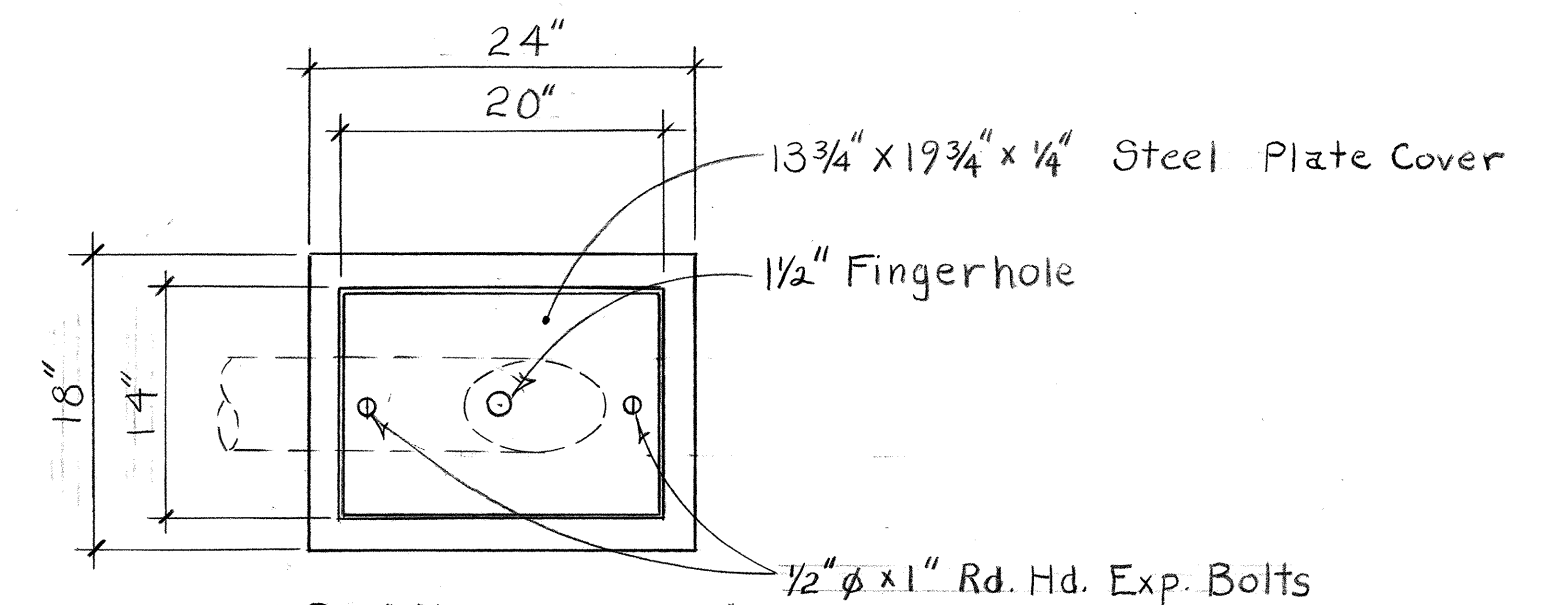
INTERMEDIATE CLEANOUT
Scale: 1" = 1'-0"



END & LATERAL CLEANOUTS
Scale: 1" = 1'-0"



TYPICAL SECTION 6" UNDERDRAIN PIPE
Scale: 3/4" = 1'-0"



PLAN

- Hatched areas denote Limit of Payment for cleanouts (Also applies to Sheet No. 6)
- The Contractor shall keep at least one lane open to traffic during working hours and both lanes open to traffic during non-working hours. All lanes shall be open to traffic during peak hours from 6:30 a.m. to 8:00 a.m. and from 4:00 p.m. to 5:30 p.m.
- Embankment material will not be paid for separately but shall be considered incidental to Underdrain pipe.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KUHIO HIGHWAY, DRAIN IMPROVEMENTS,
VICINITY OF KEALIA HILL
PROJ. NO. 56BD-01-75
PLAN & MISCELLANEOUS DETAILS
Scale: As Shown June 1976
SHEET NO. 1 OF 1 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
NO.	_____