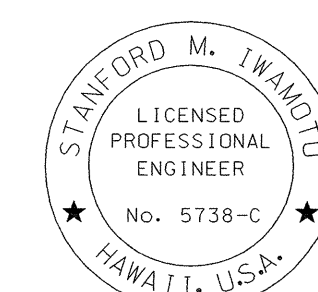


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50CD-02-00M	2001	10	33

NOTES:

1. Location of existing grated drop inlets in which new grates are to be installed are:
Sta. 105+92± o/s Rt.,
Sta. 106+81± o/s Lt.,
Sta. 108+75± o/s Lt.
- *2. The Contractor shall verify in the field the exact dimensions of the grates to be replaced. Frames (partially shown) are to remain unless otherwise directed by the Engineer. Length of steel bars may change depending on existing frame dimensions. Spacing of bars shall remain as shown.
3. All steel items shall be hot-dip galvanized after fabrication.
4. Apply two layers of zinc coating to all welded areas after fabrication.
5. Removing and disposing of existing steel frames, grates and concrete boxes or any portion(s) thereof, and furnishing and installing new steel frames, grates, concrete and reinforcing steel shall be considered incidental to Contract Item No. 604.4250 - Replacing Grate for Grated Drop Inlet.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature

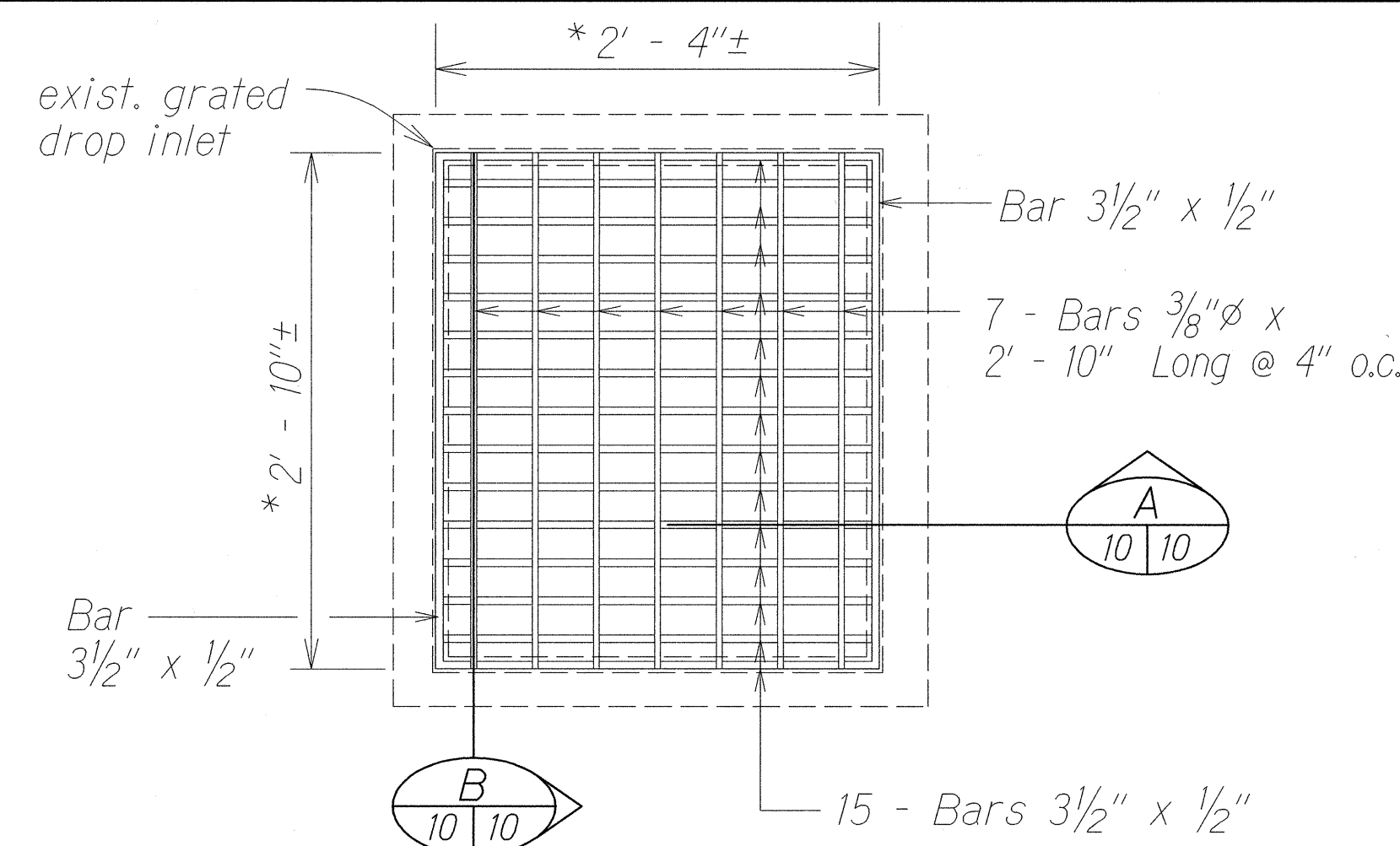
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

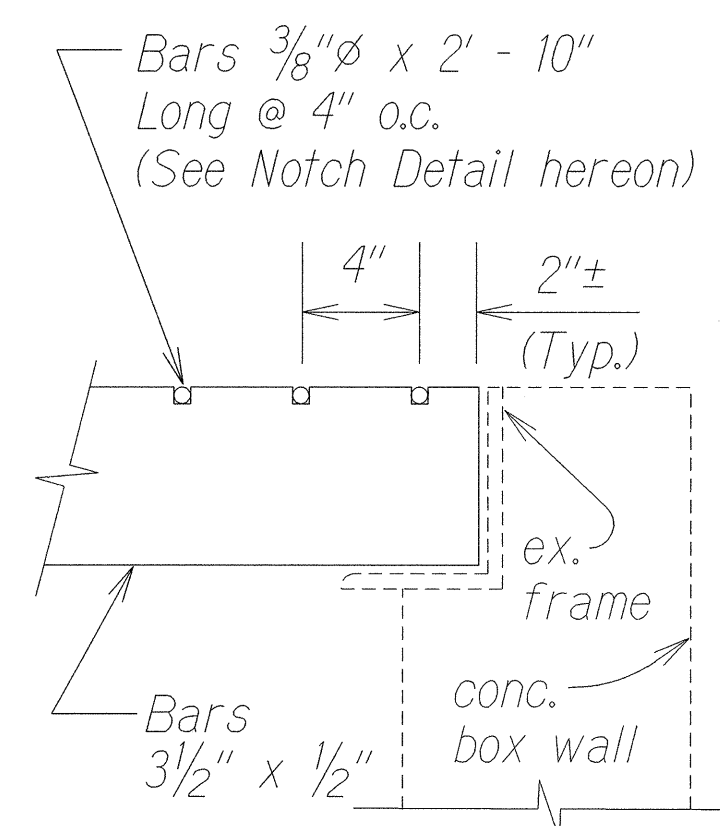
KAUMUALII HIGHWAY RESURFACING
Vicinity of O'ao Road to Koloa Road
Project No. 50CD-02-00M

Scale: Not to Scale Date: August, 2000

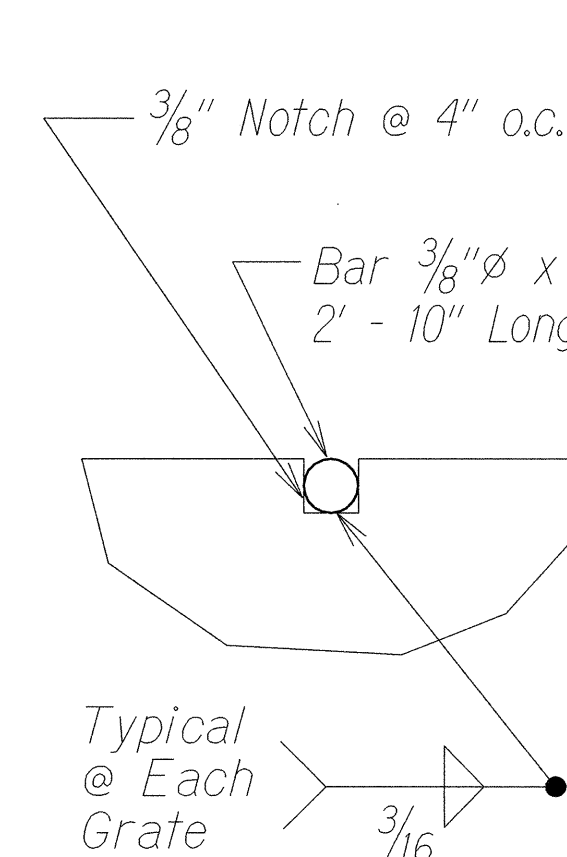
SHEET No. 1 OF 4 SHEETS



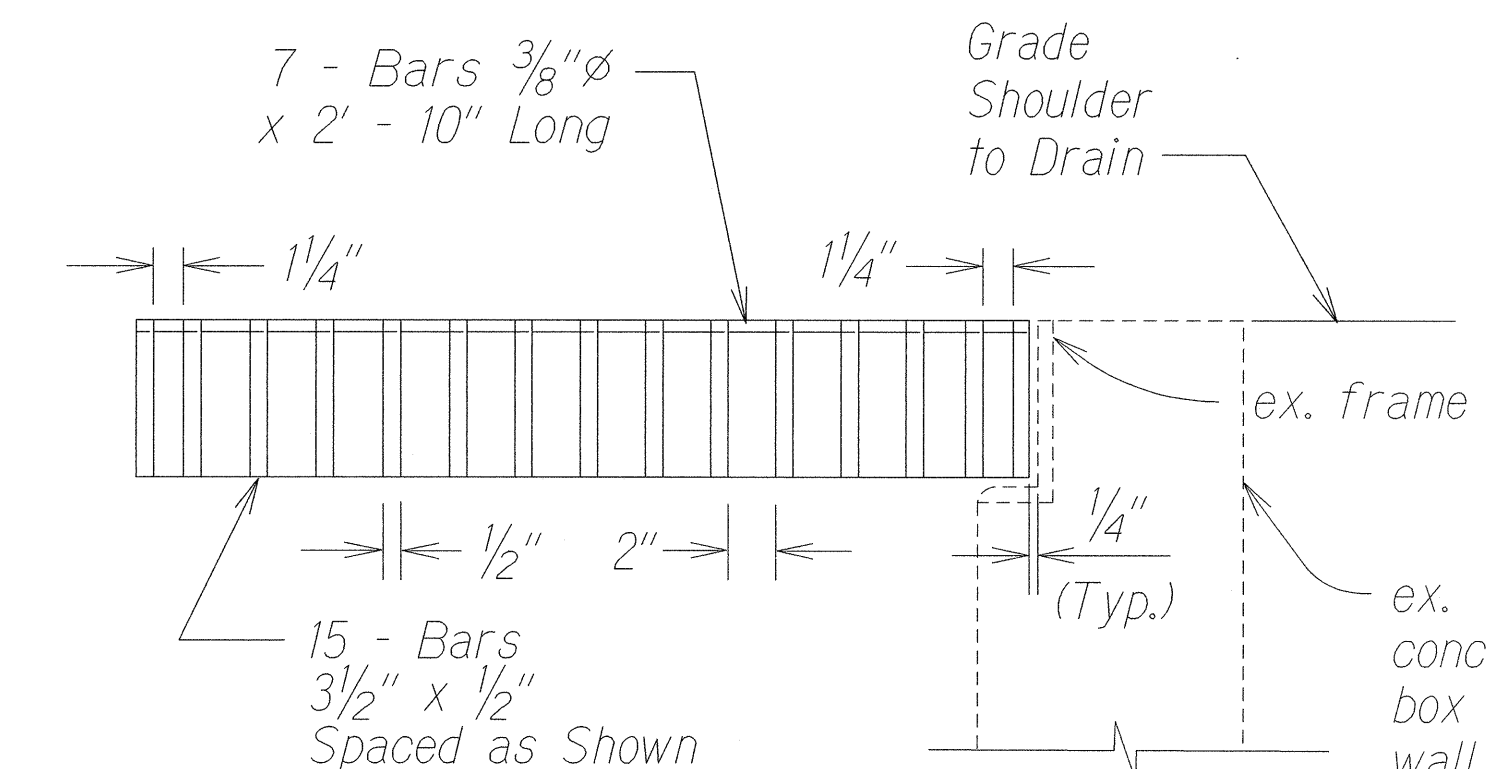
PLAN - TYPE A-9P MODIFIED STEEL GRATE
FOR GDI AT # STA. 105+92± o/s Rt.
Not to Scale



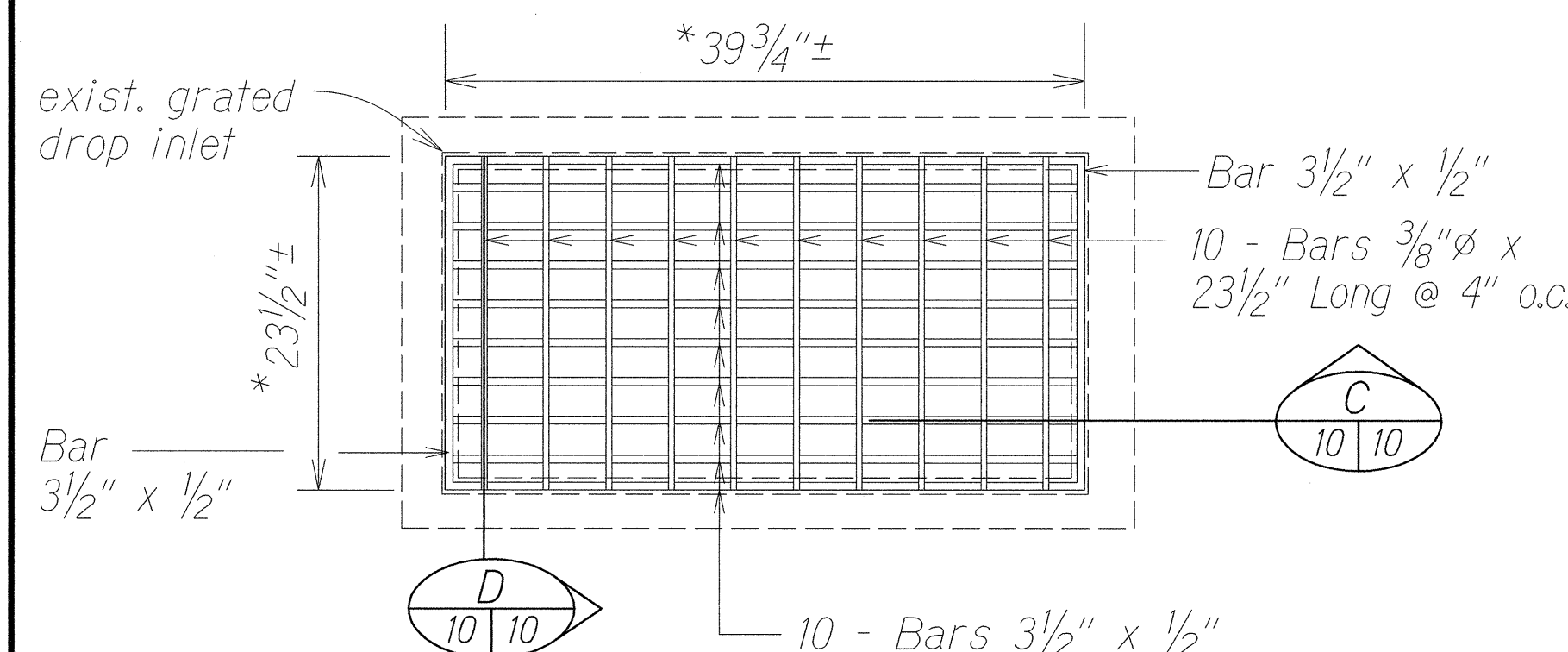
SECTION A
Not to Scale



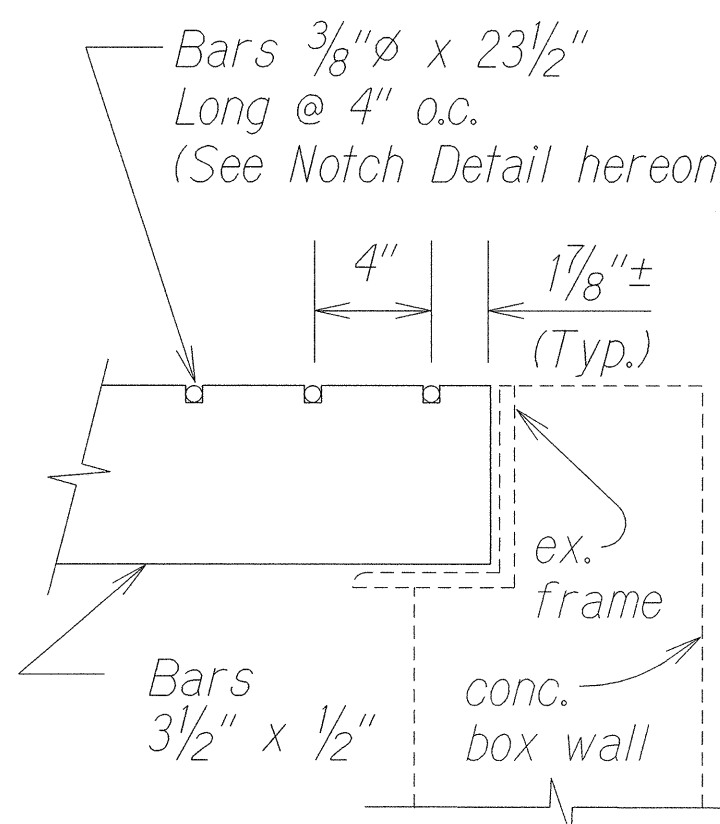
NOTCH DETAIL
Not to Scale



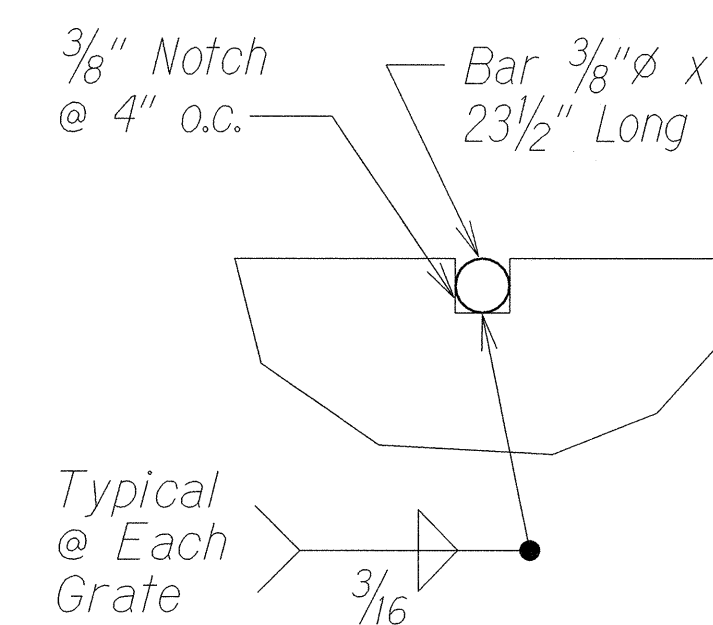
SECTION B
Not to Scale



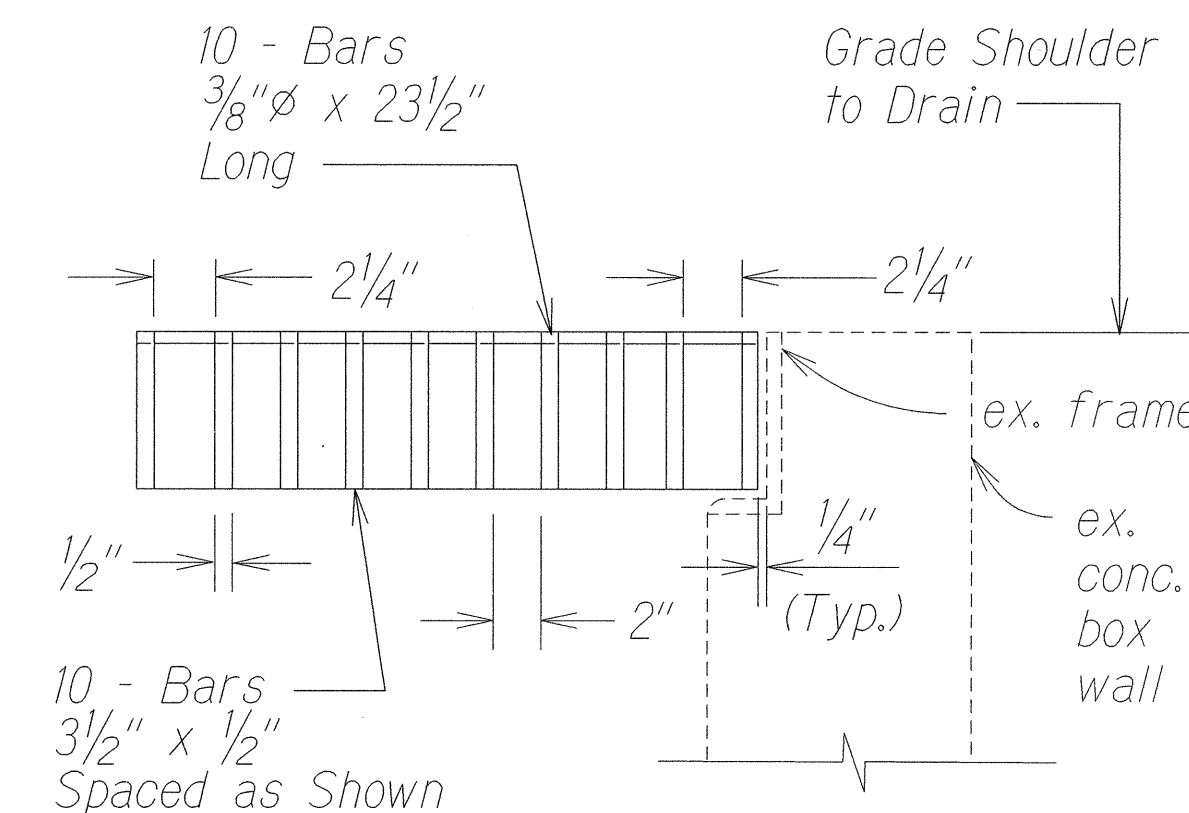
PLAN - TYPE A-9P MODIFIED STEEL GRATE
FOR GDI AT # STA. 106+81± o/s Lt.
Not to Scale



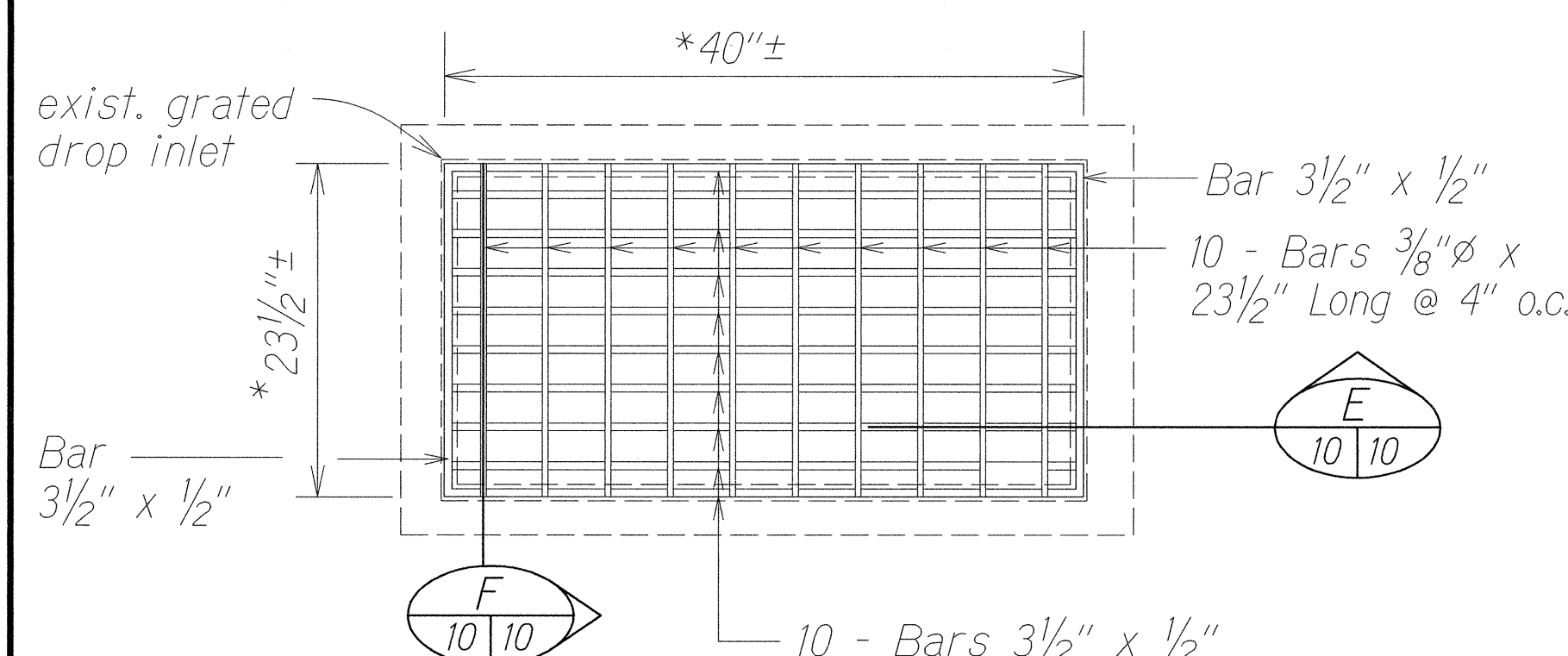
SECTION C
Not to Scale



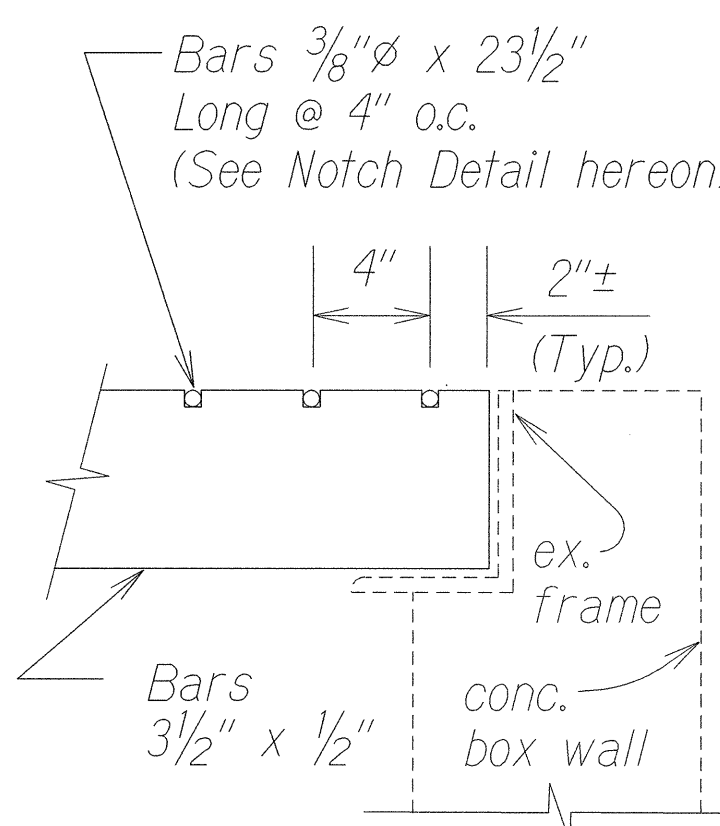
NOTCH DETAIL
Not to Scale



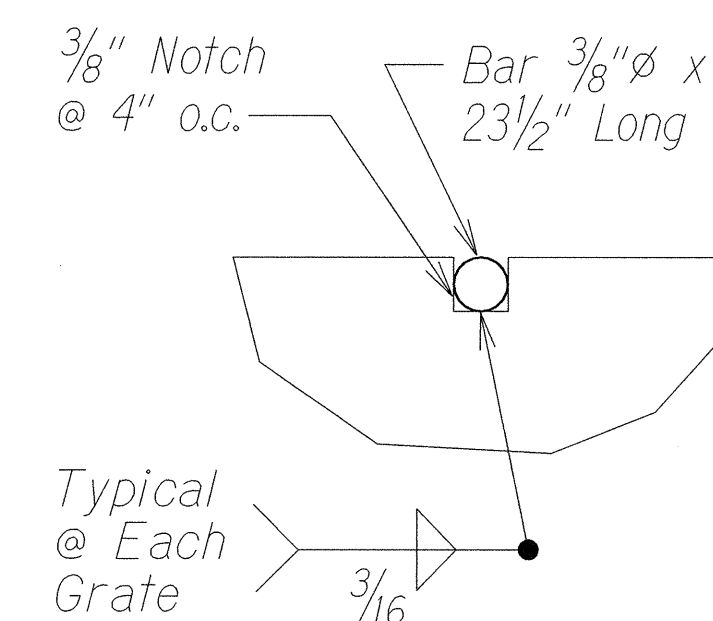
SECTION D
Not to Scale



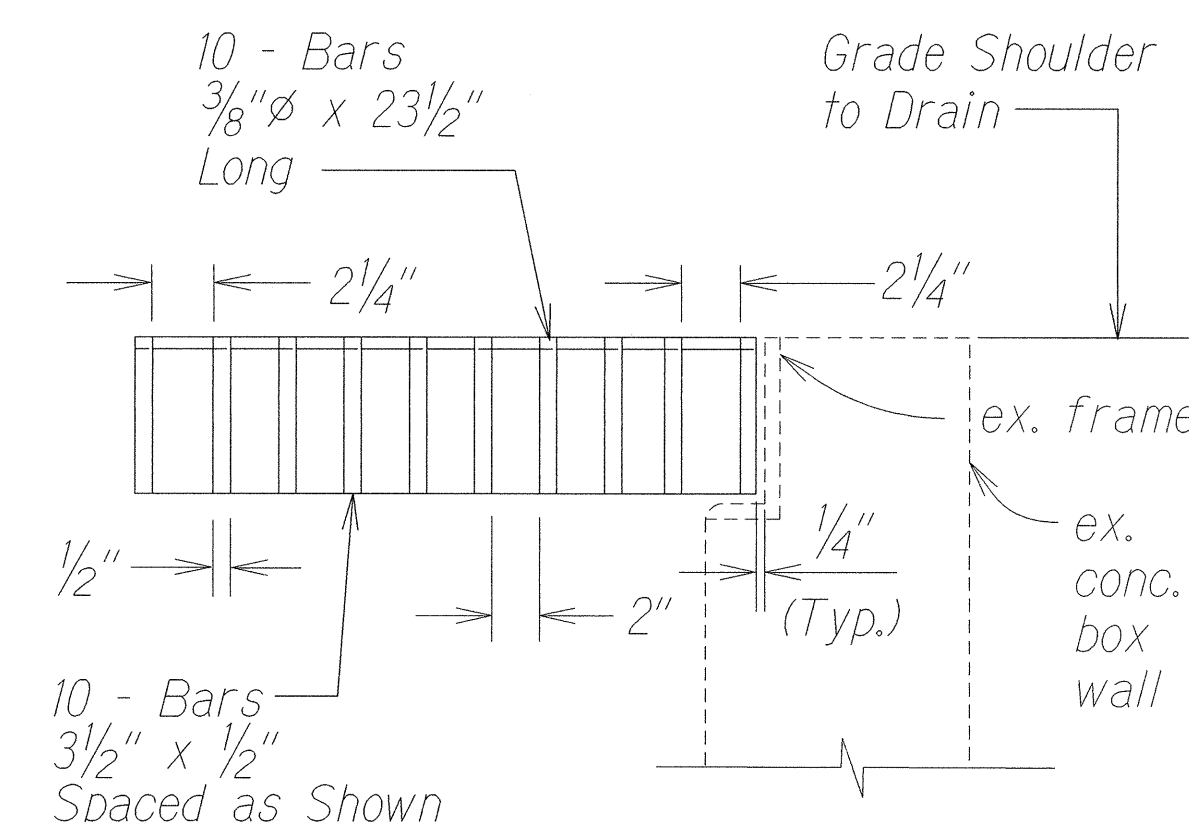
PLAN - TYPE A-9P MODIFIED STEEL GRATE
FOR GDI AT # STA. 108+75± o/s Lt.
Not to Scale



SECTION E
Not to Scale



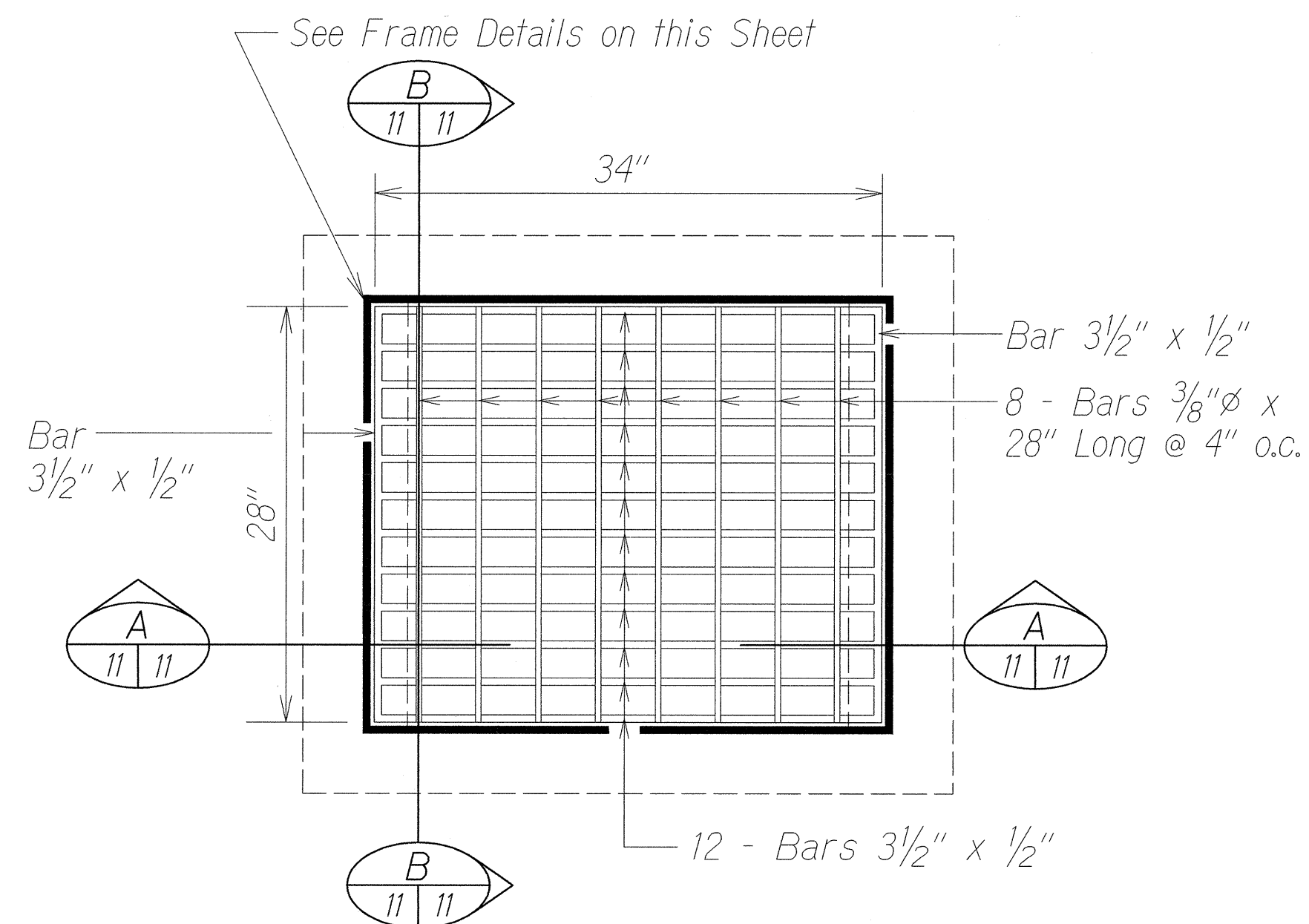
NOTCH DETAIL
Not to Scale



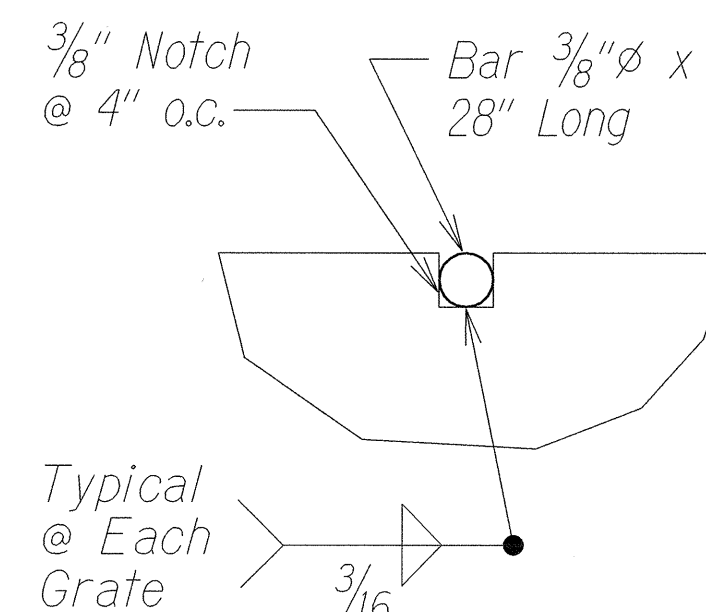
SECTION F
Not to Scale

DATE	_____
SURVEY PLOTTED BY	_____
PLAN	_____
NOTE BOOK	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____

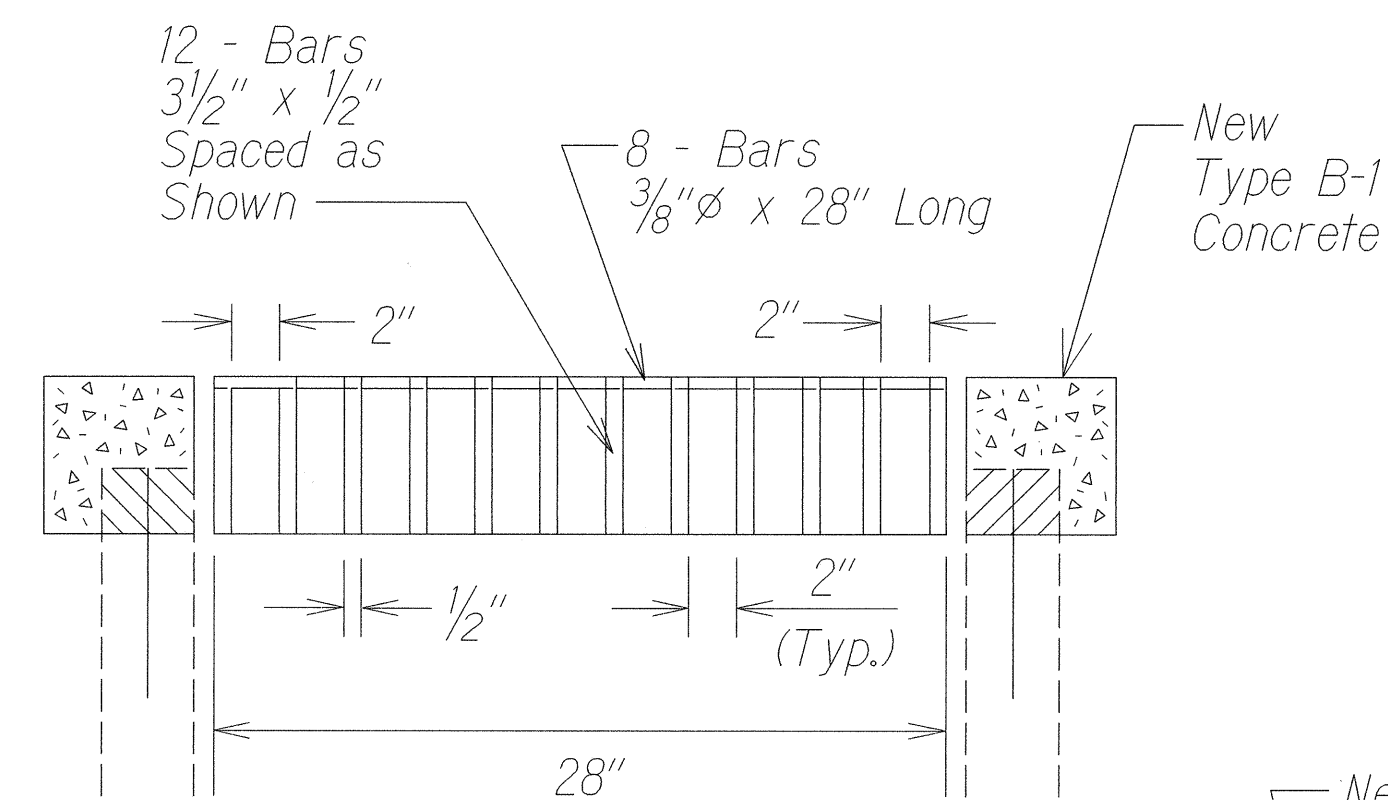
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50CD-02-00M	2001	11	33



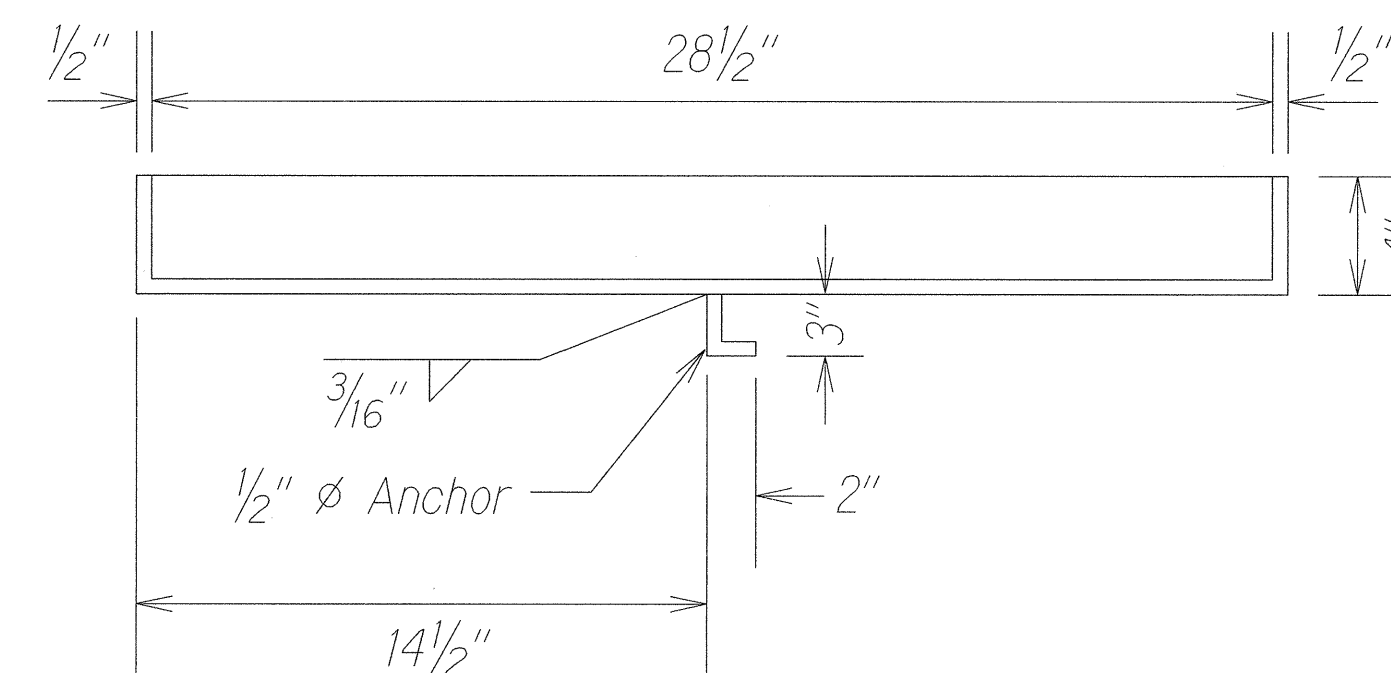
PLAN - DRAIN INLET ADJUSTMENT
AT @ STA. 77+25± o/s Lt.
Not to Scale



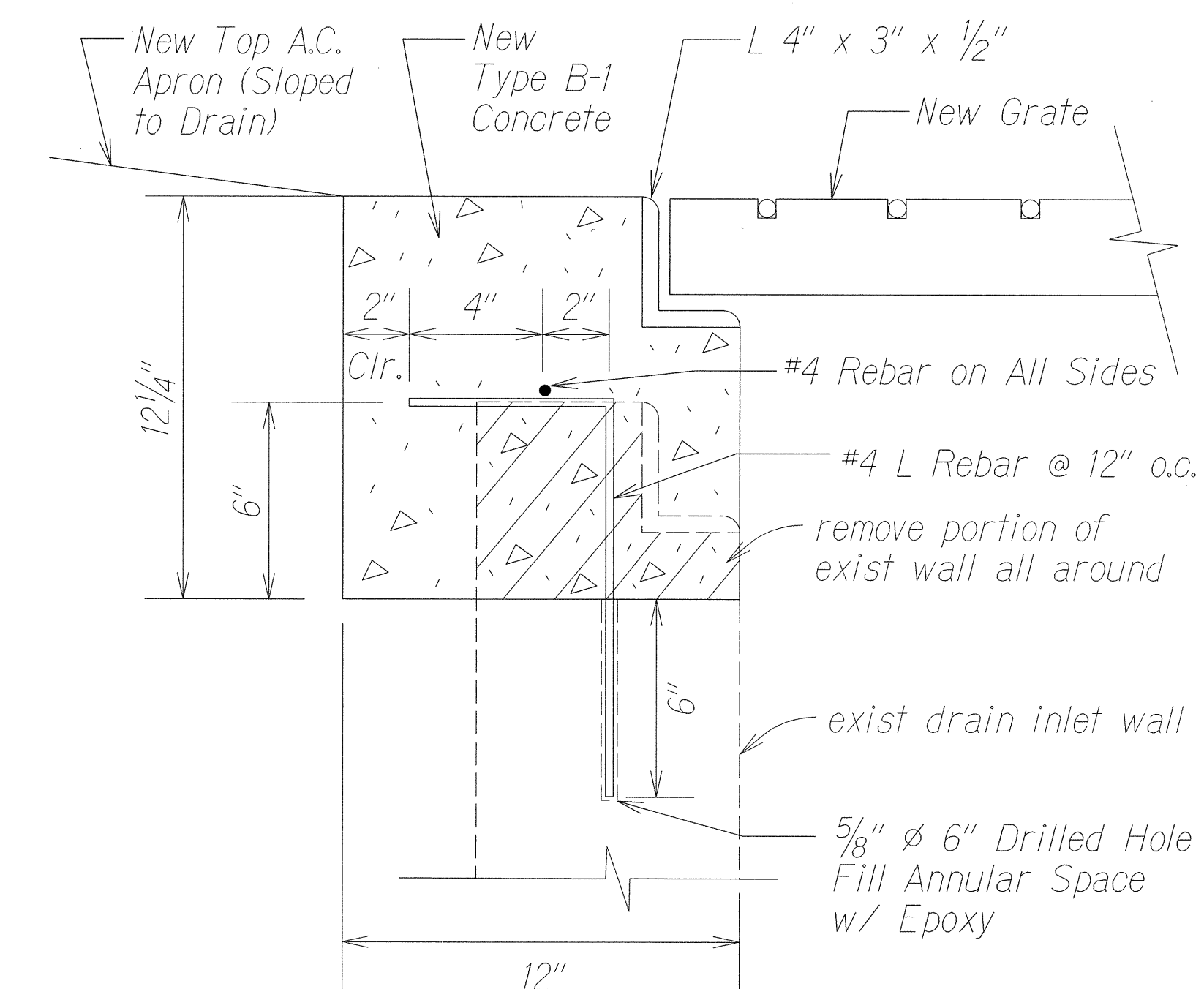
NOTCH DETAIL
Not to Scale



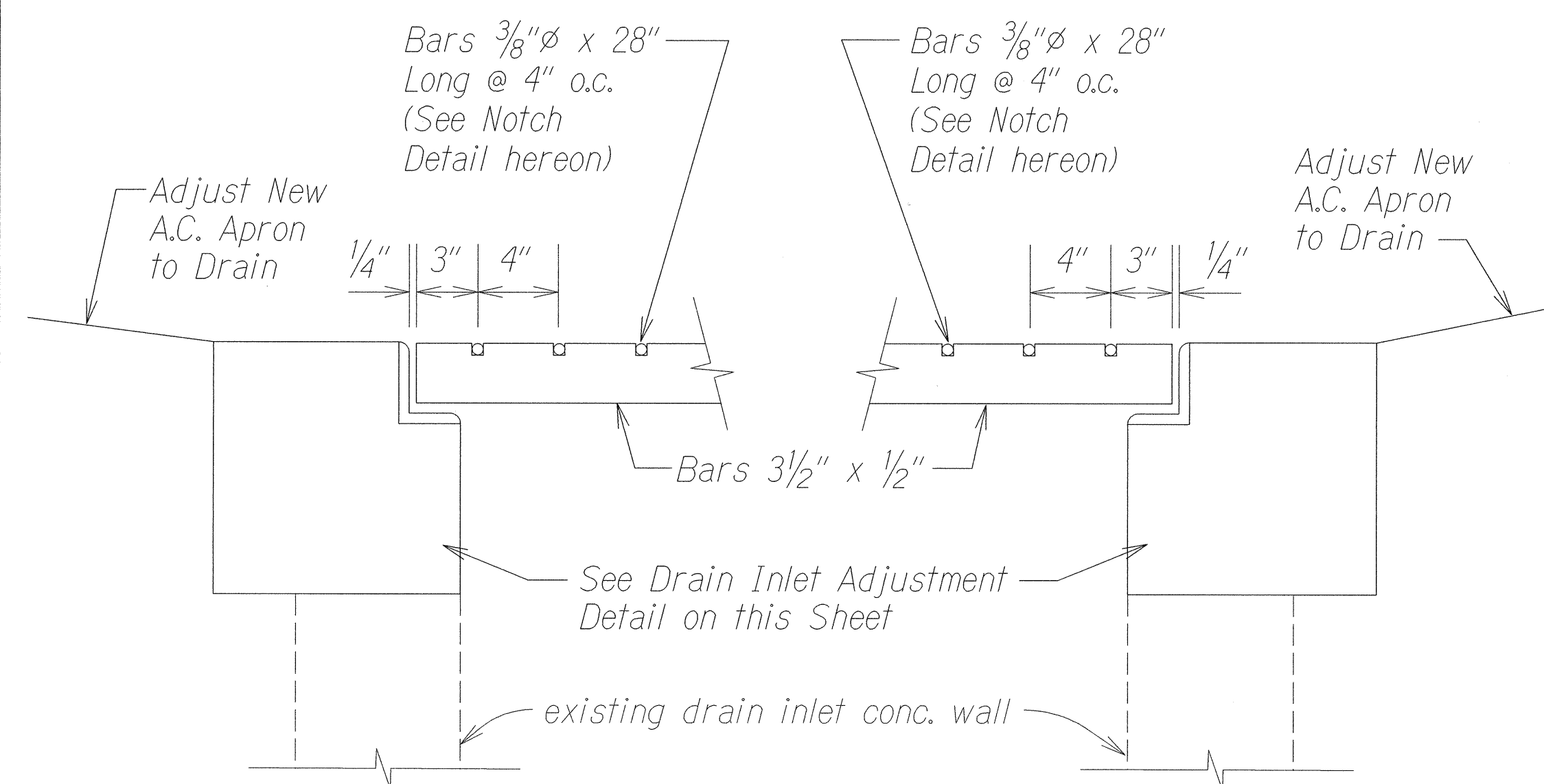
SECTION - GRATE
Not to Scale



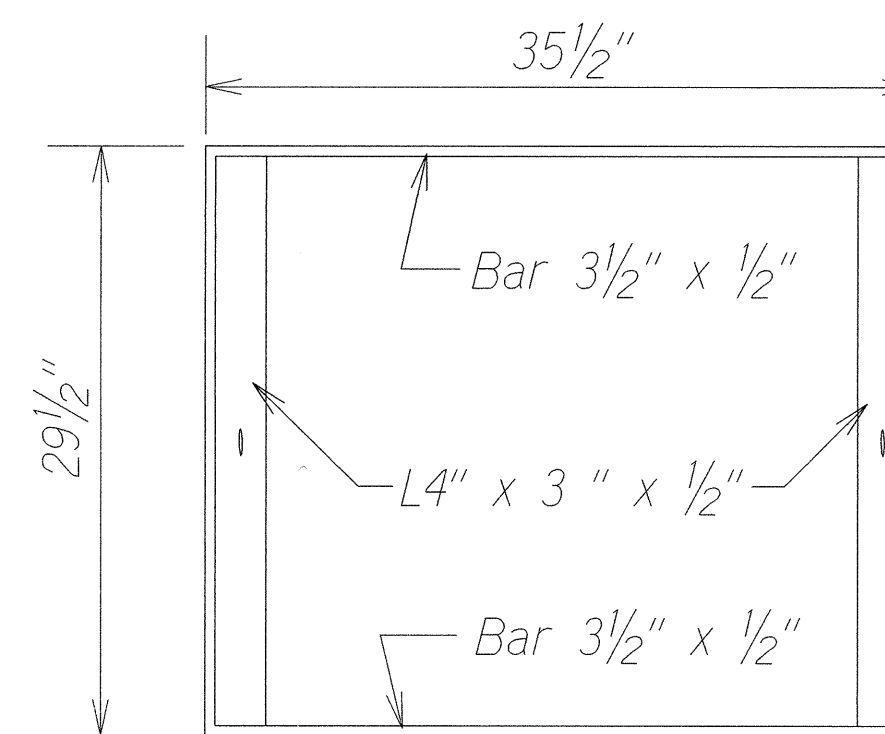
SECTION - FRAME
Not to Scale



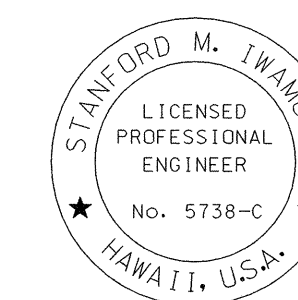
ADJUSTMENT DETAIL FOR DRAIN INLET AT @ STA. 77+25± o/s Lt.
Not to Scale



SECTION - GRATE
Not to Scale



PLAN - FRAME
Not to Scale



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

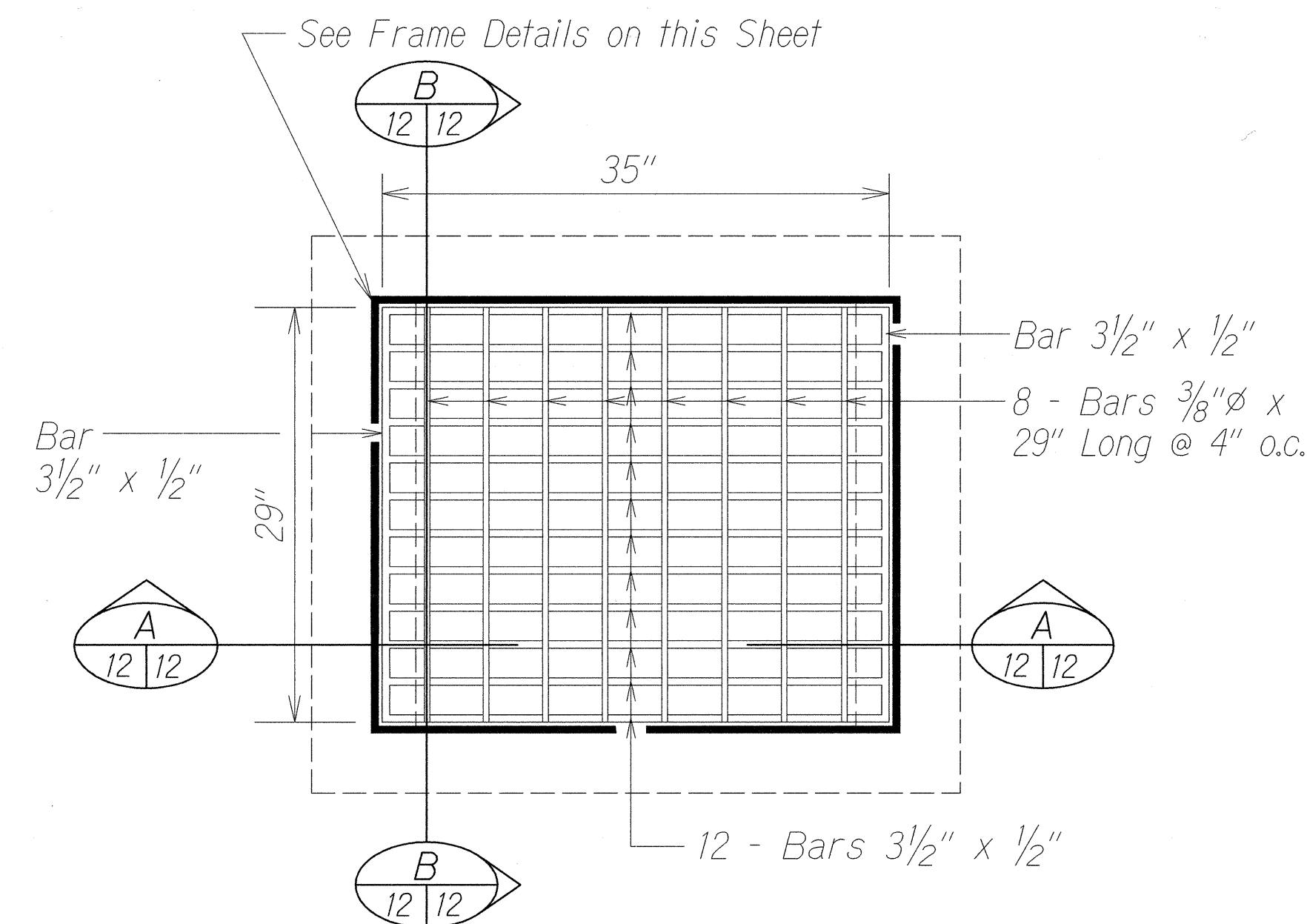
DRAINAGE DETAILS

KAUMUALII HIGHWAY RESURFACING
Vicinity of O'ao Road to Koloa Road
Project No. 50CD-02-00M

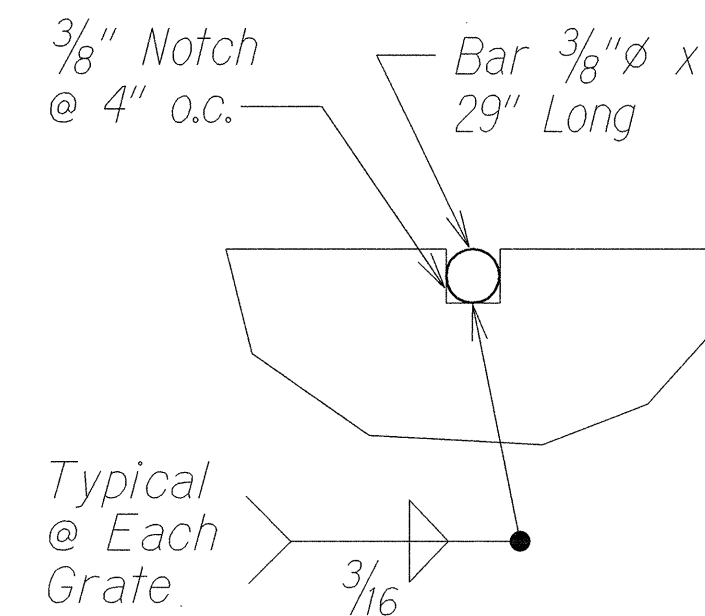
Scale: Not to Scale Date: August, 2000

SHEET No. 2 OF 4 SHEETS

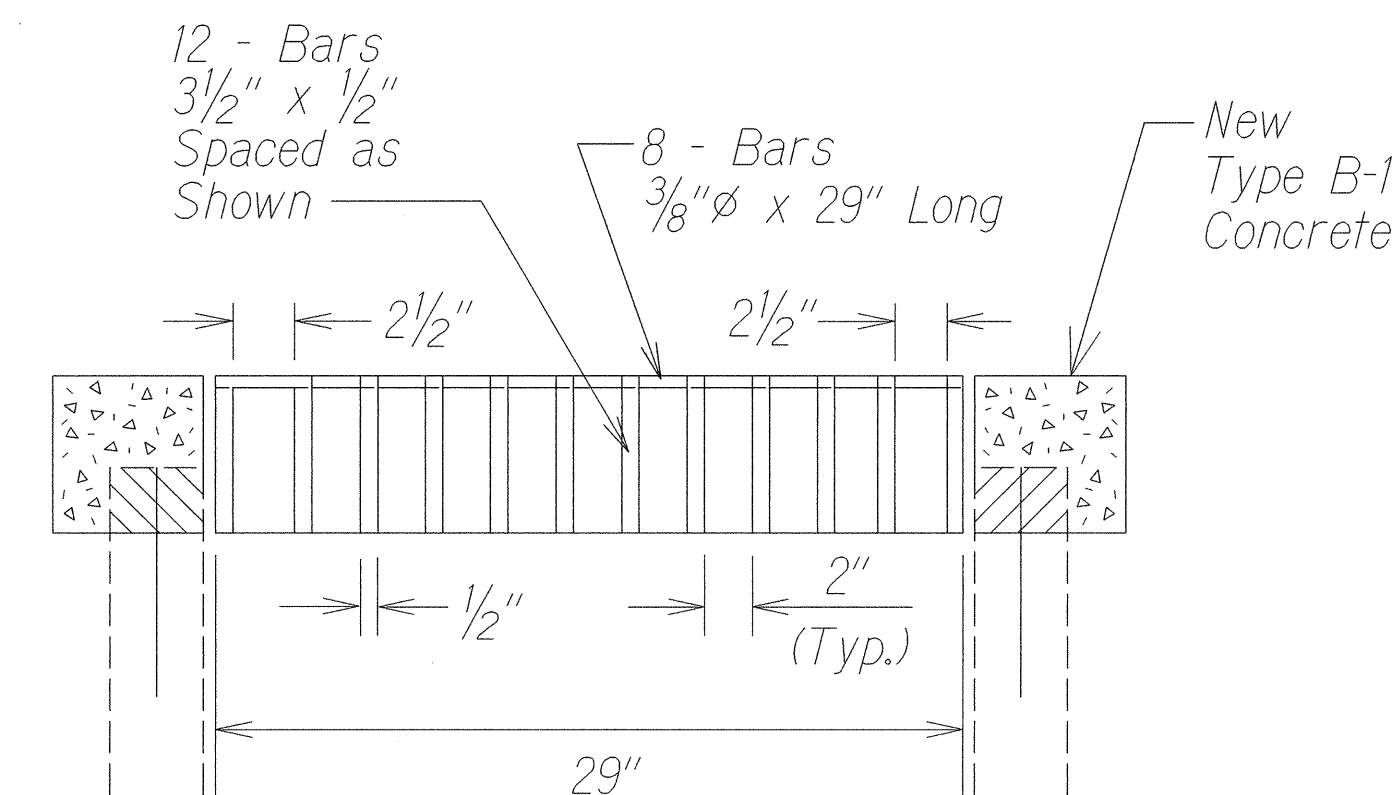
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50CD-02-00M	2001	12	33



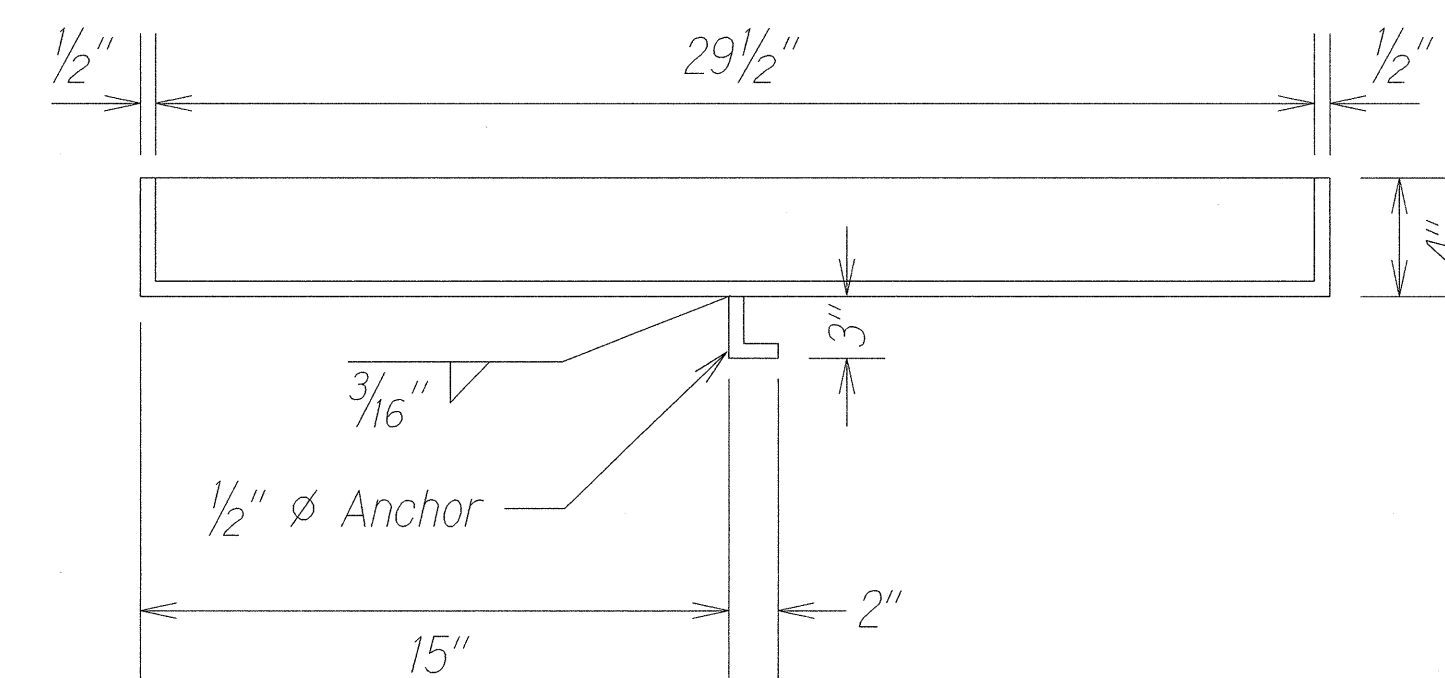
PLAN - DRAIN INLET ADJUSTMENT
AT STA. 121+74± o/s LT.
Not to Scale



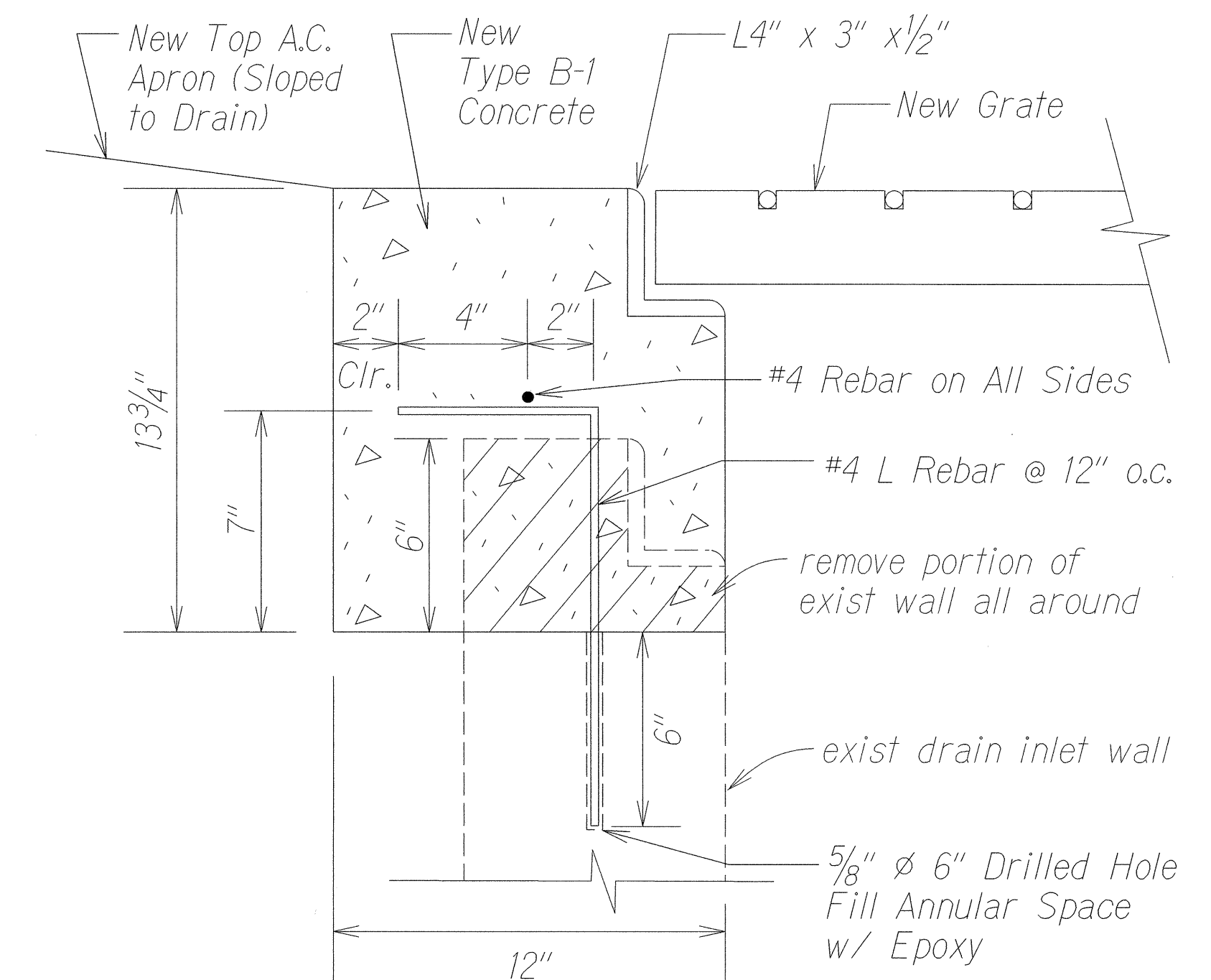
NOTCH DETAIL
Not to Scale



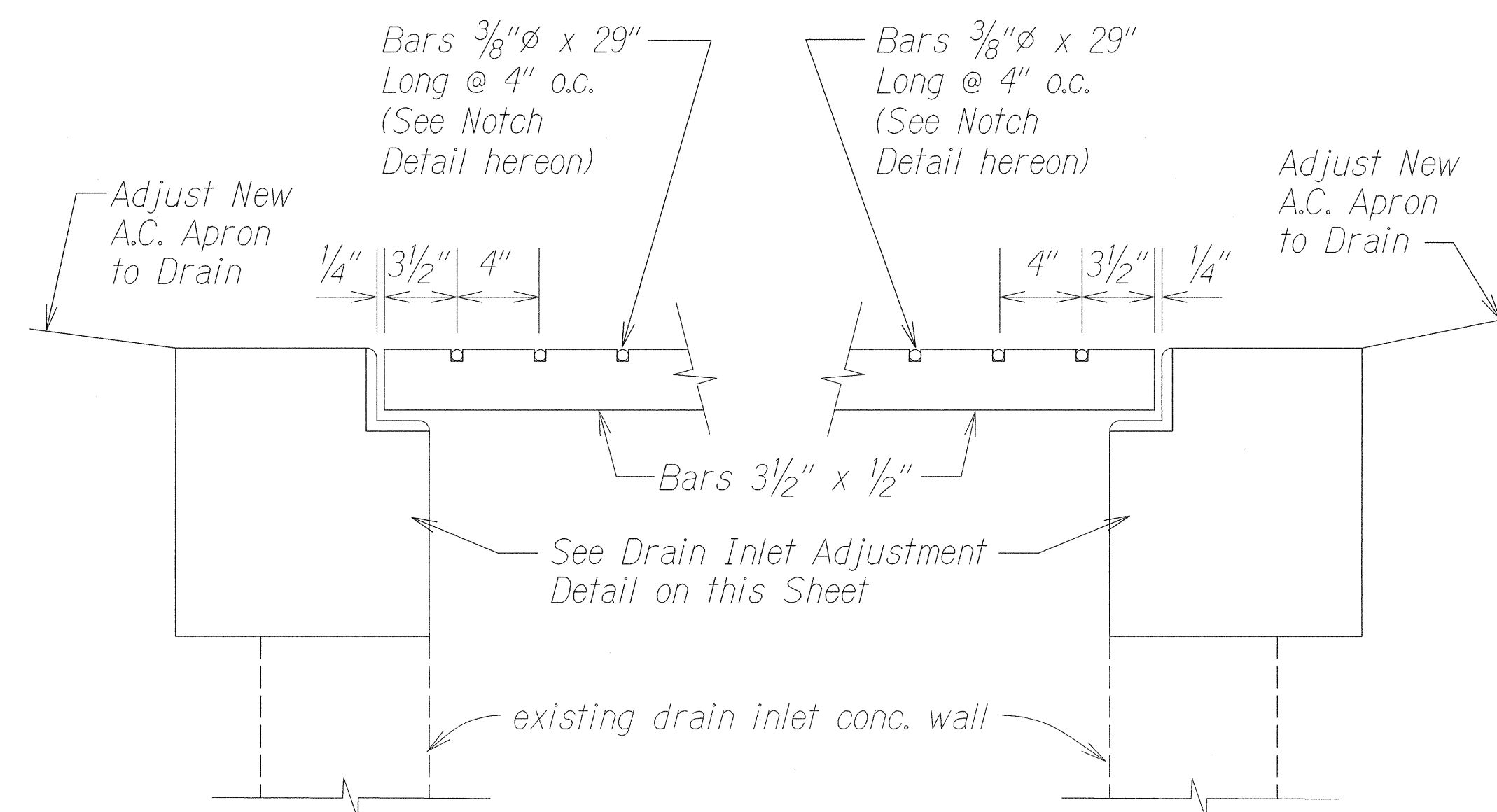
SECTION - GRATE
Not to Scale



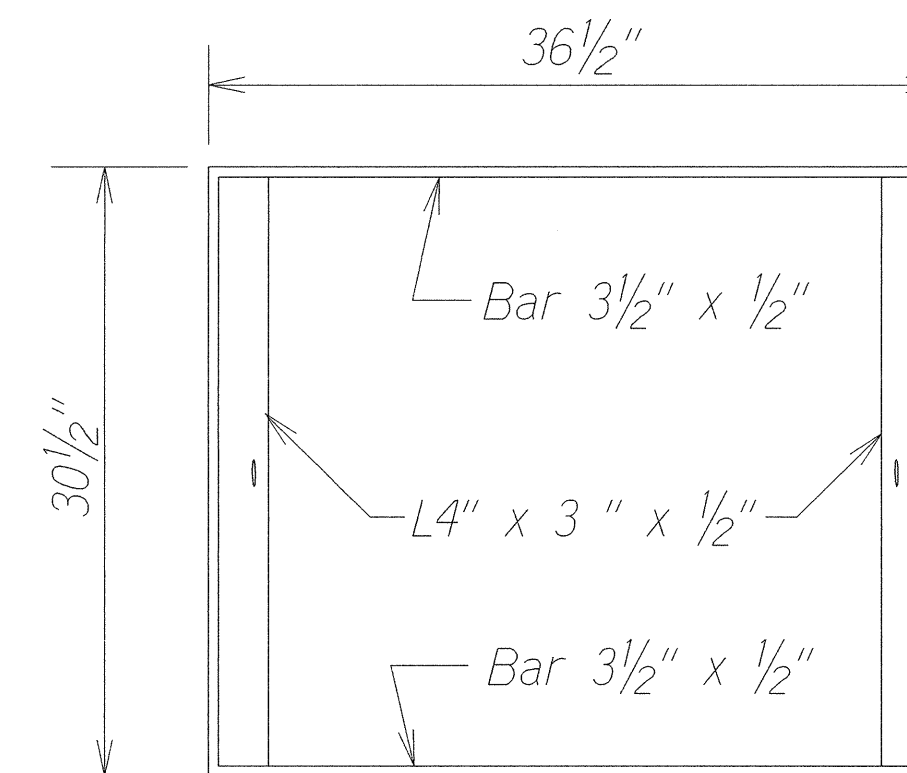
SECTION - FRAME
Not to Scale



ADJUSTMENT DETAIL FOR DRAIN
INLET AT STA. 121+74± o/s Lt.
Not to Scale

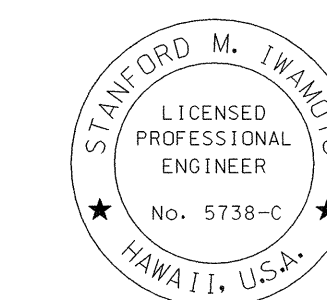


SECTION - GRATE
Not to Scale



PLAN - FRAME
Not to Scale

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

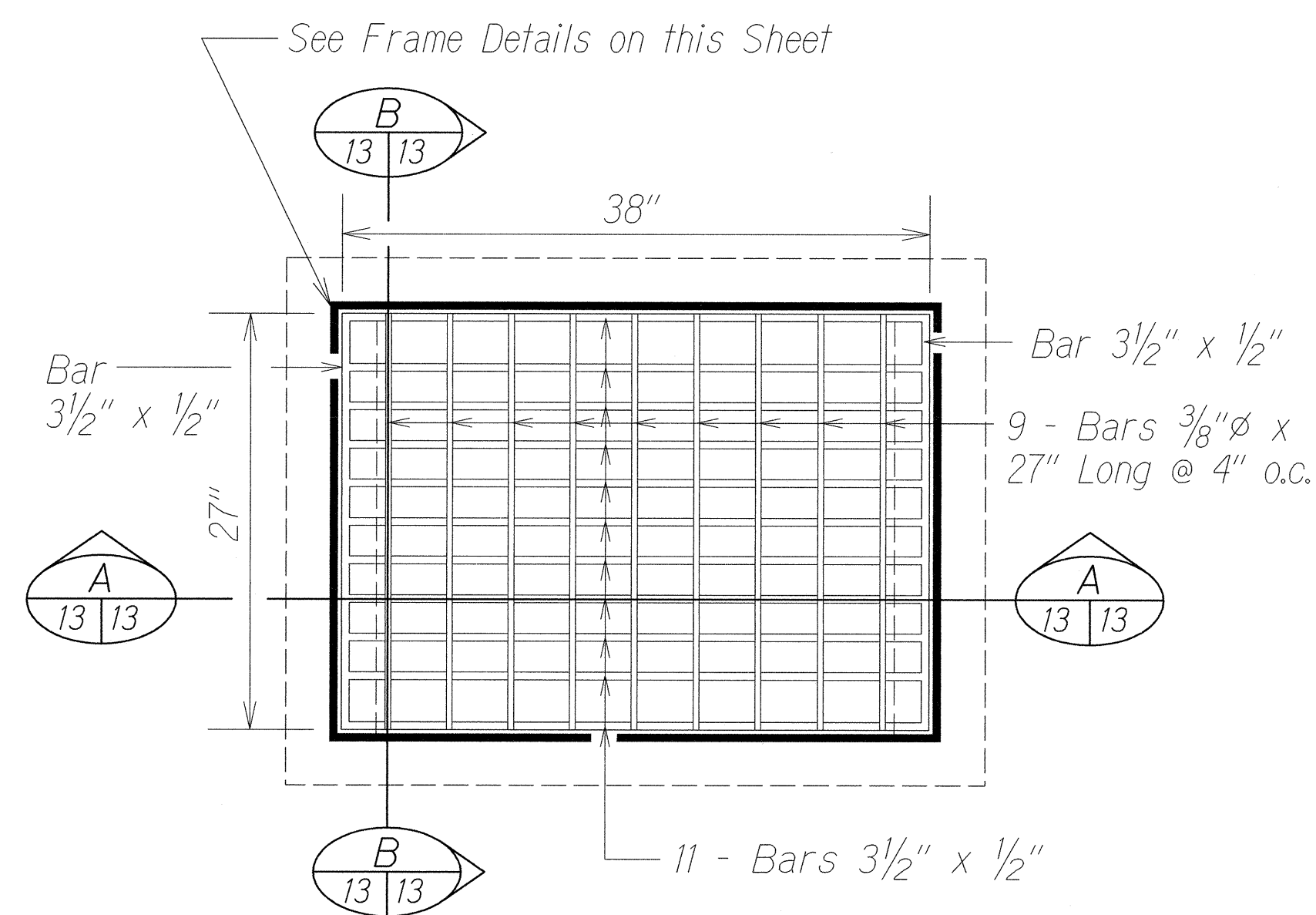
DRAINAGE DETAILS

KAUMUALII HIGHWAY RESURFACING
Vicinity of O'ao Road to Koloa Road
Project No. 50CD-02-00M

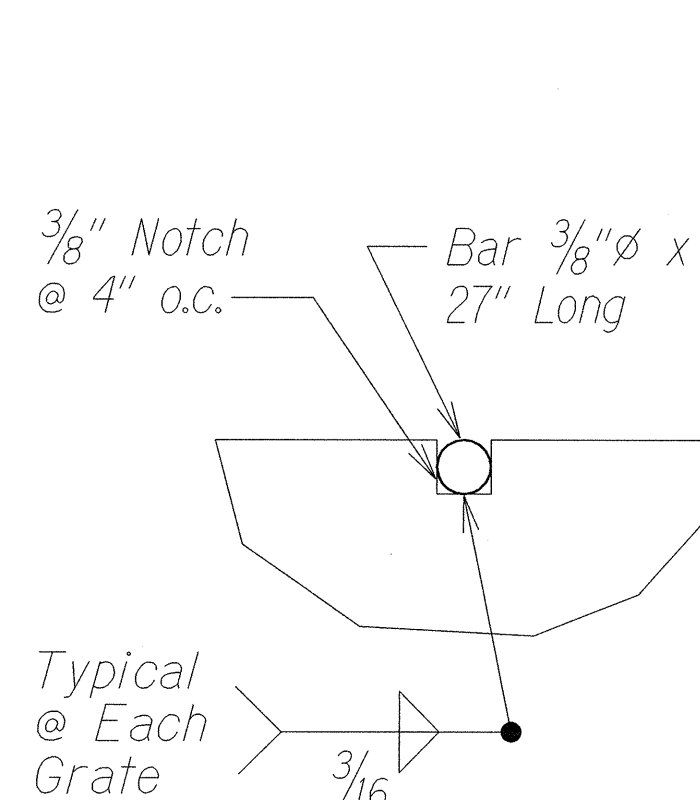
Scale: Not to Scale Date: August, 2000

SHEET No. 3 OF 4 SHEETS

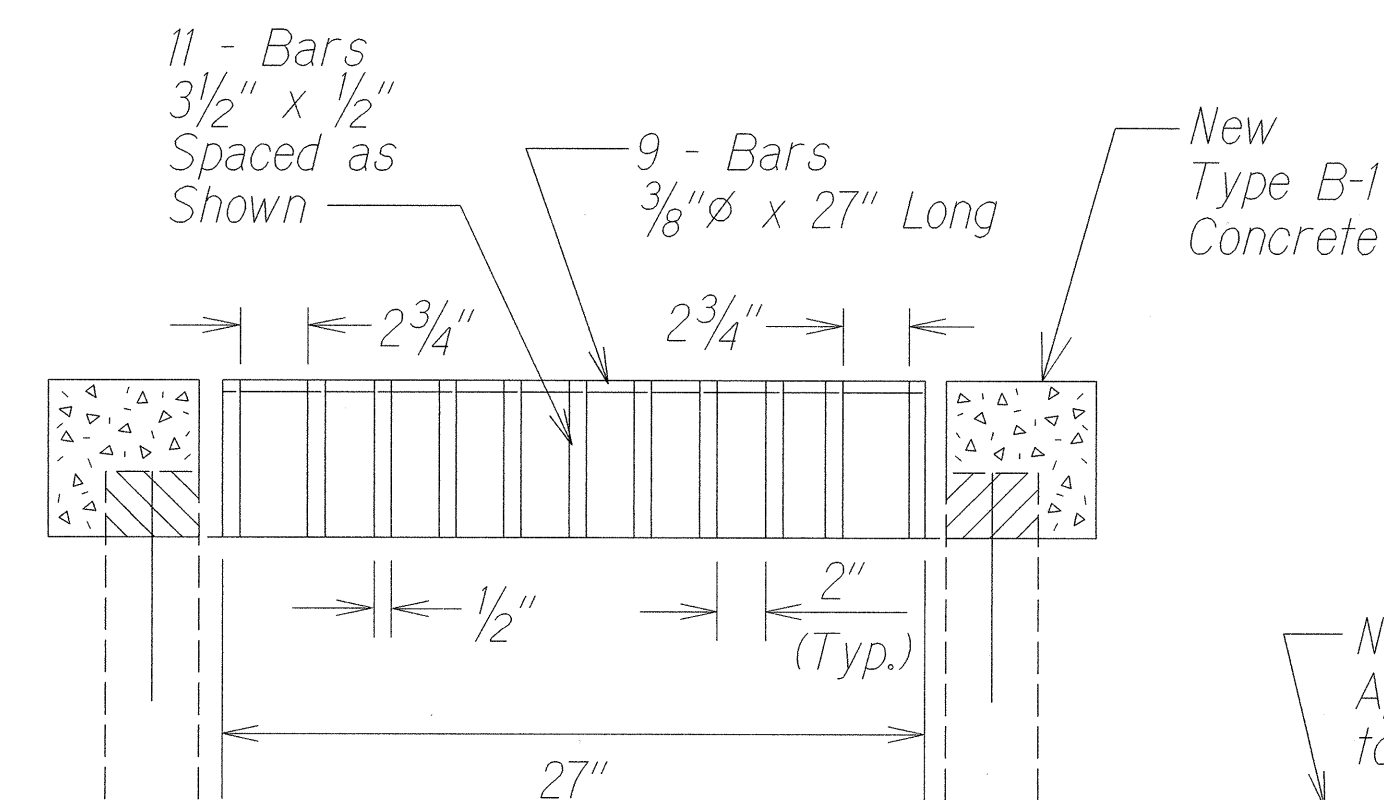
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50CD-02-00M	2001	13	33



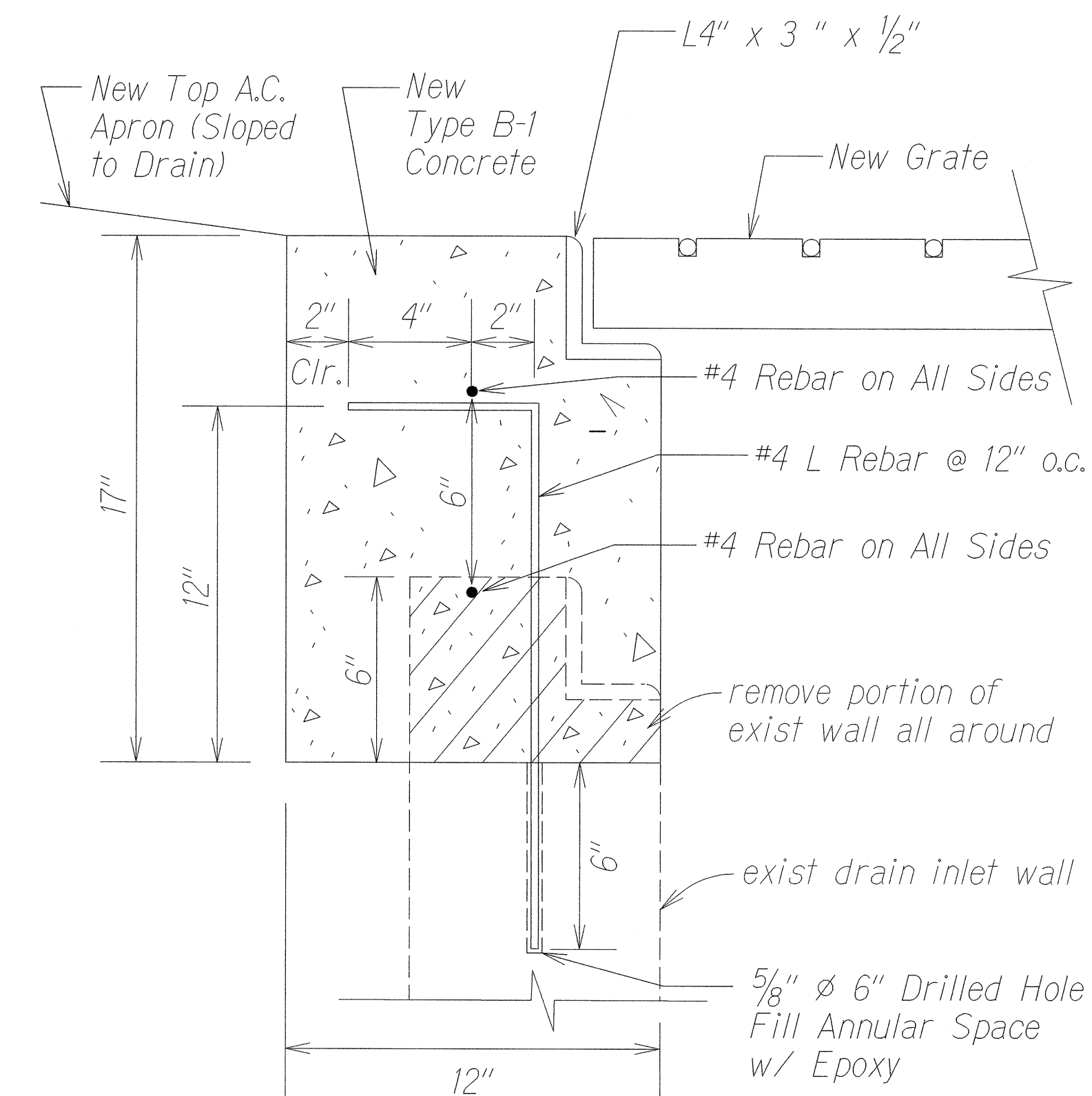
PLAN - DRAIN INLET ADJUSTMENT
AT STA. 130+37± o/s Lt.
Not to Scale



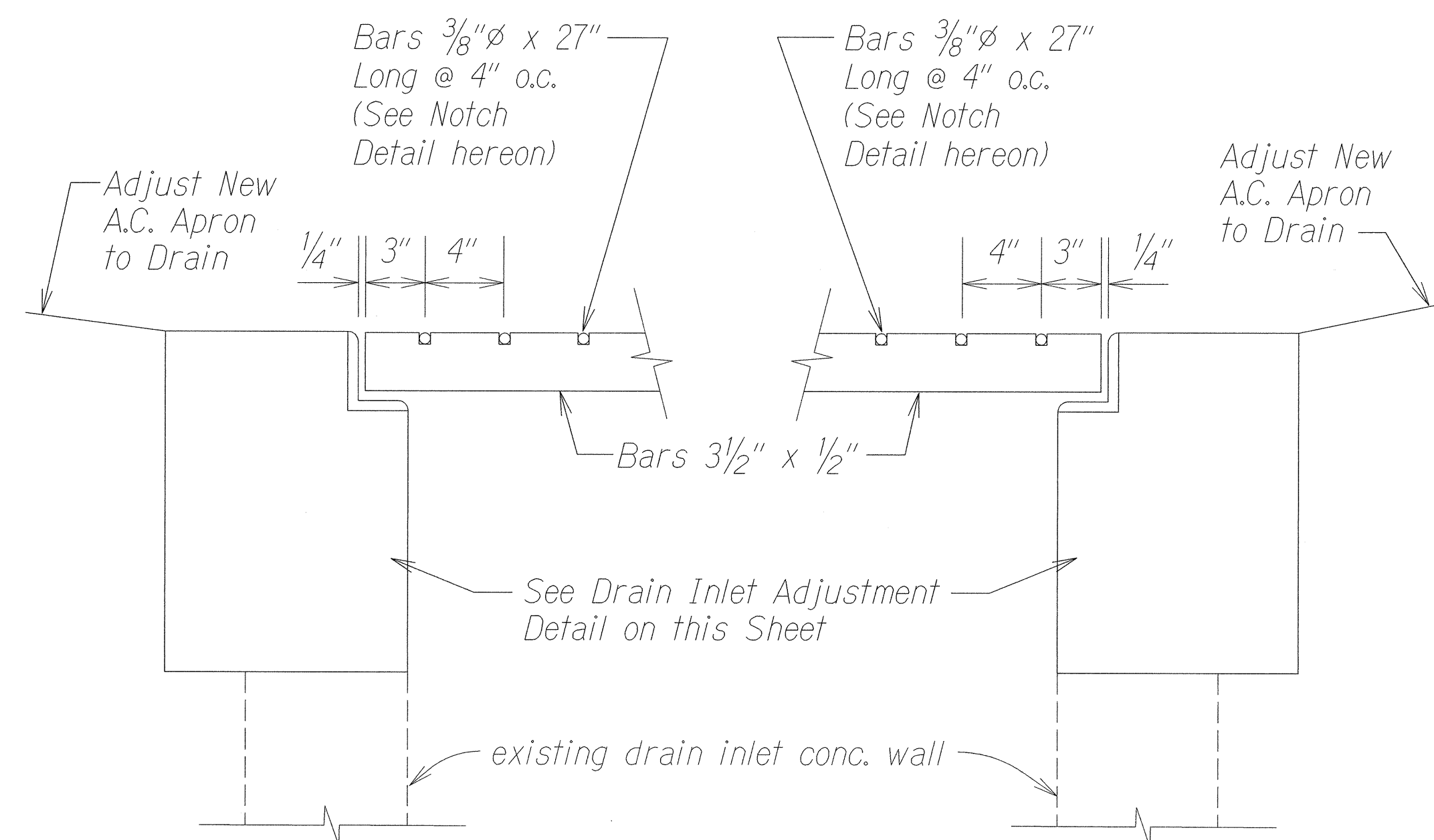
NOTCH DETAIL
Not to Scale



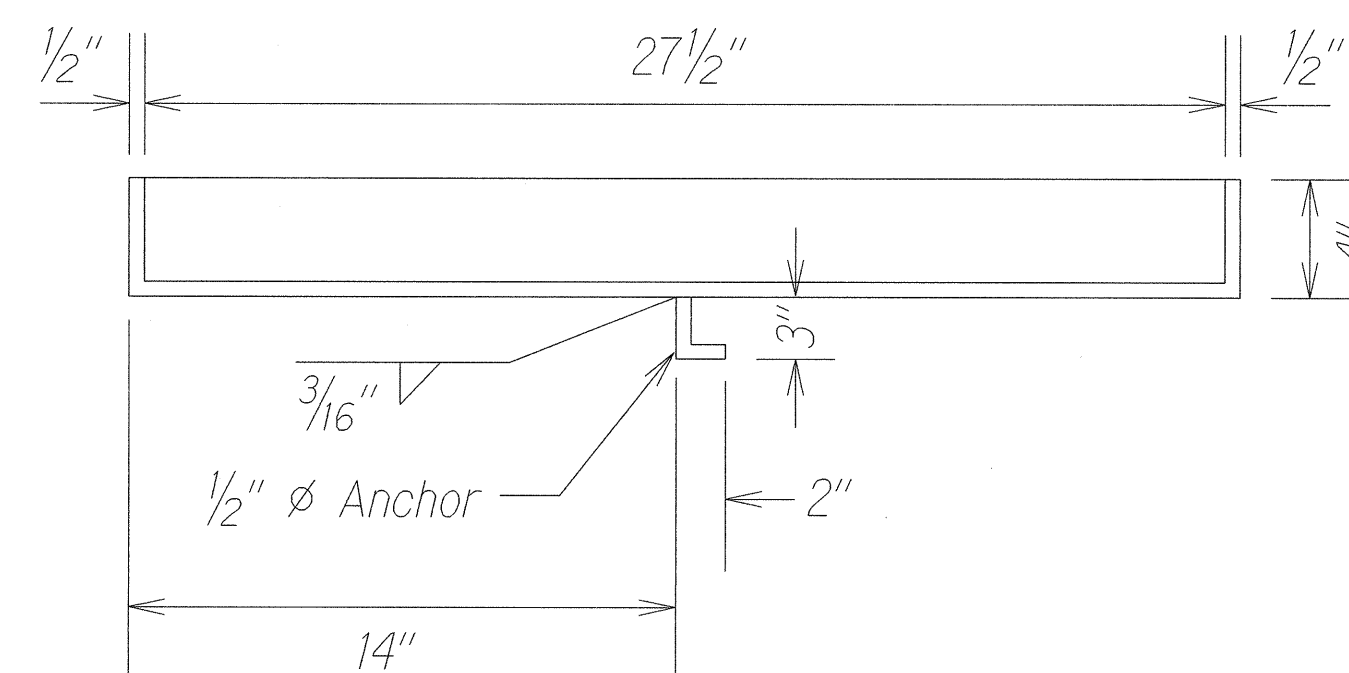
SECTION - GRATE
Not to Scale



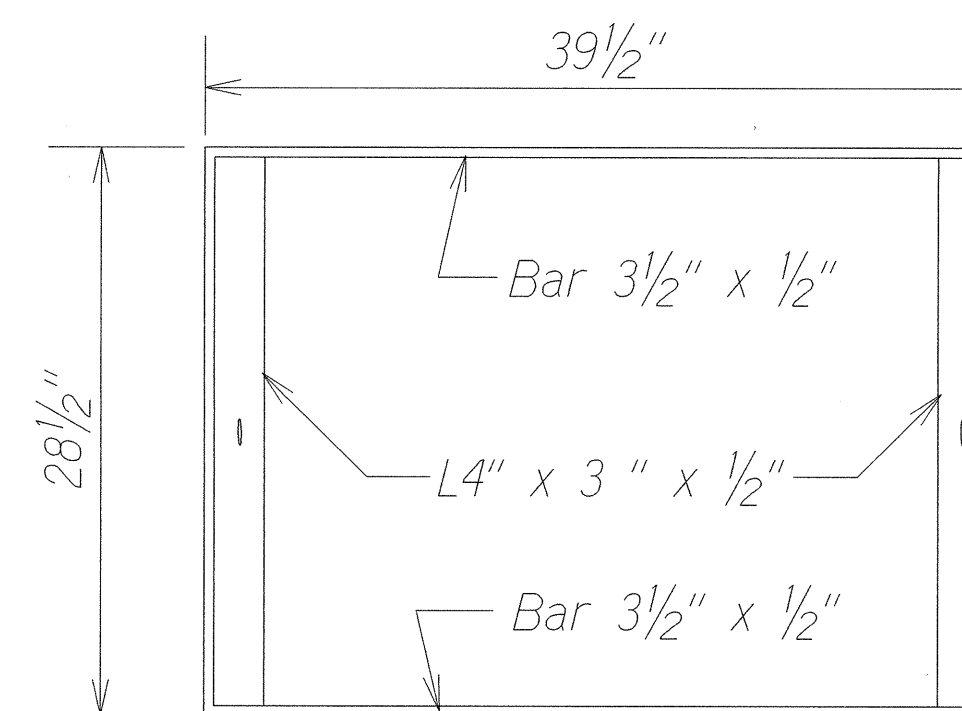
ADJUSTMENT DETAIL FOR DRAIN INLET
AT STA. 130+37± o/s Lt.
Not to Scale



SECTION - GRATE
Not to Scale

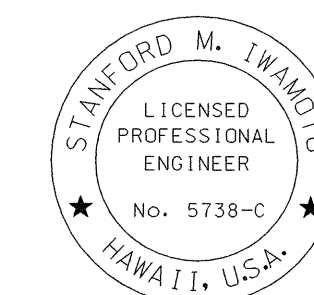


SECTION - FRAME
Not to Scale



PLAN - FRAME
Not to Scale

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KAUMUALII HIGHWAY RESURFACING
Vicinity of O'ao Road to Koloa Road
Project No. 50CD-02-00M

Scale: Not to Scale Date: August, 2000

SHEET No. 4 OF 4 SHEETS