

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTEBOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____

FILE: DOT95235
SCALE: 1/4"=1'
BEG: 08/09/97

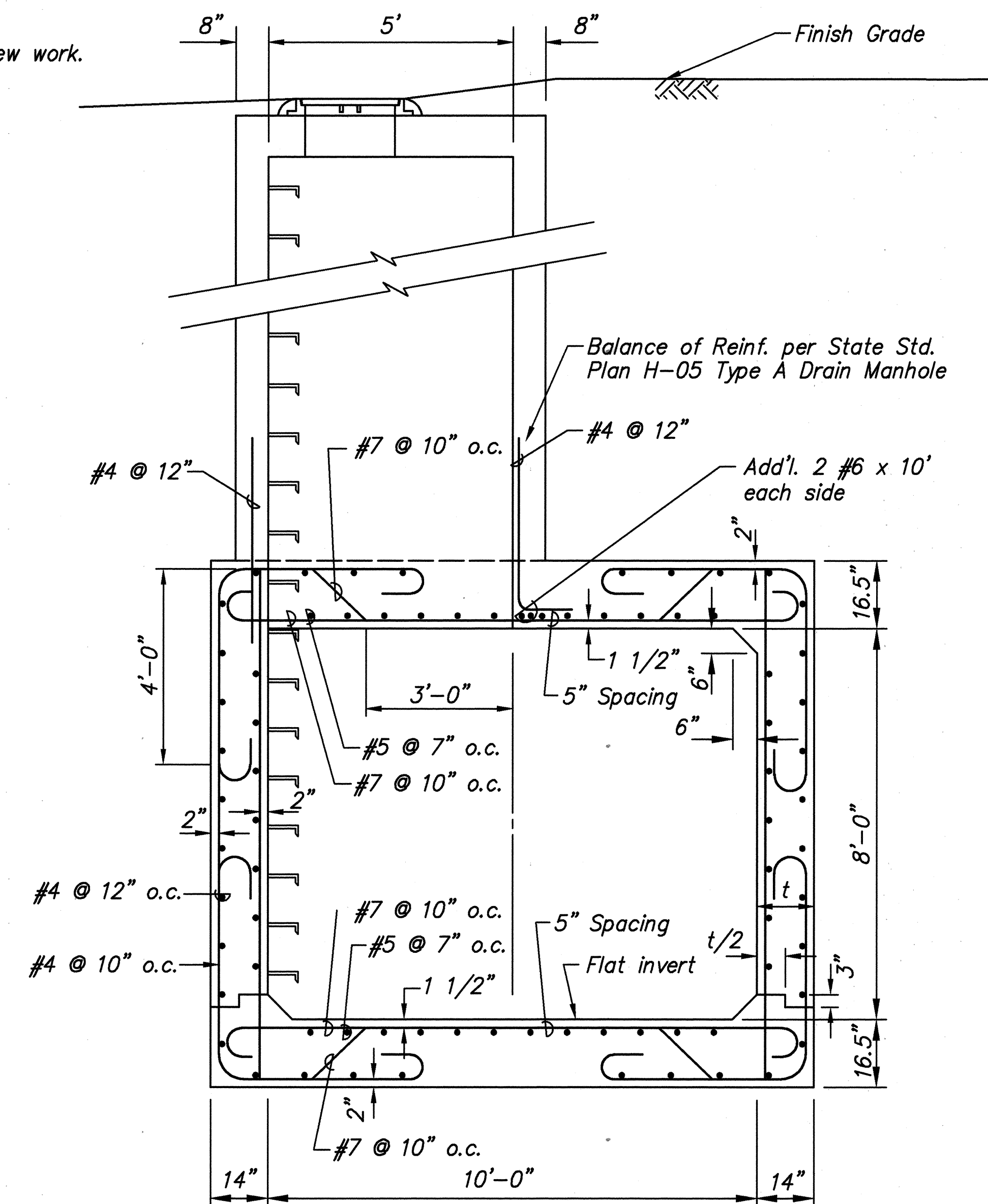


Diagram illustrating a cross-section of a box culvert structure, showing existing and proposed elements.

Existing Structure (Right):

- Existing Headwall (To Remain)
- Existing Box Culvert
- Existing Slope: 2.85 %
- Existing Invert Elevation: INV. 817.78

Proposed Structure (Left):

- Proposed Box Culvert
- Proposed Slope: 8.46 %
- Proposed Invert Elevation: INV. 808.55
- Proposed 36" RCP (Rigid Concrete Pipe) connection to the existing structure.
- Proposed Slope: 22.51 %

Key Elevation and Slope Data:

- Existing Box Culvert Elevation: El. = 833.40
- Proposed Box Culvert Elevation: El. = 833.40
- Proposed Box Culvert Slope: 8.46 %
- Proposed Box Culvert Invert: INV. 808.55
- Proposed Box Culvert Slope: 22.51 %
- Proposed Box Culvert Slope: 8.46 %
- Proposed Box Culvert Slope: 2.85 %

Section Label: SECTION "Y-Y"

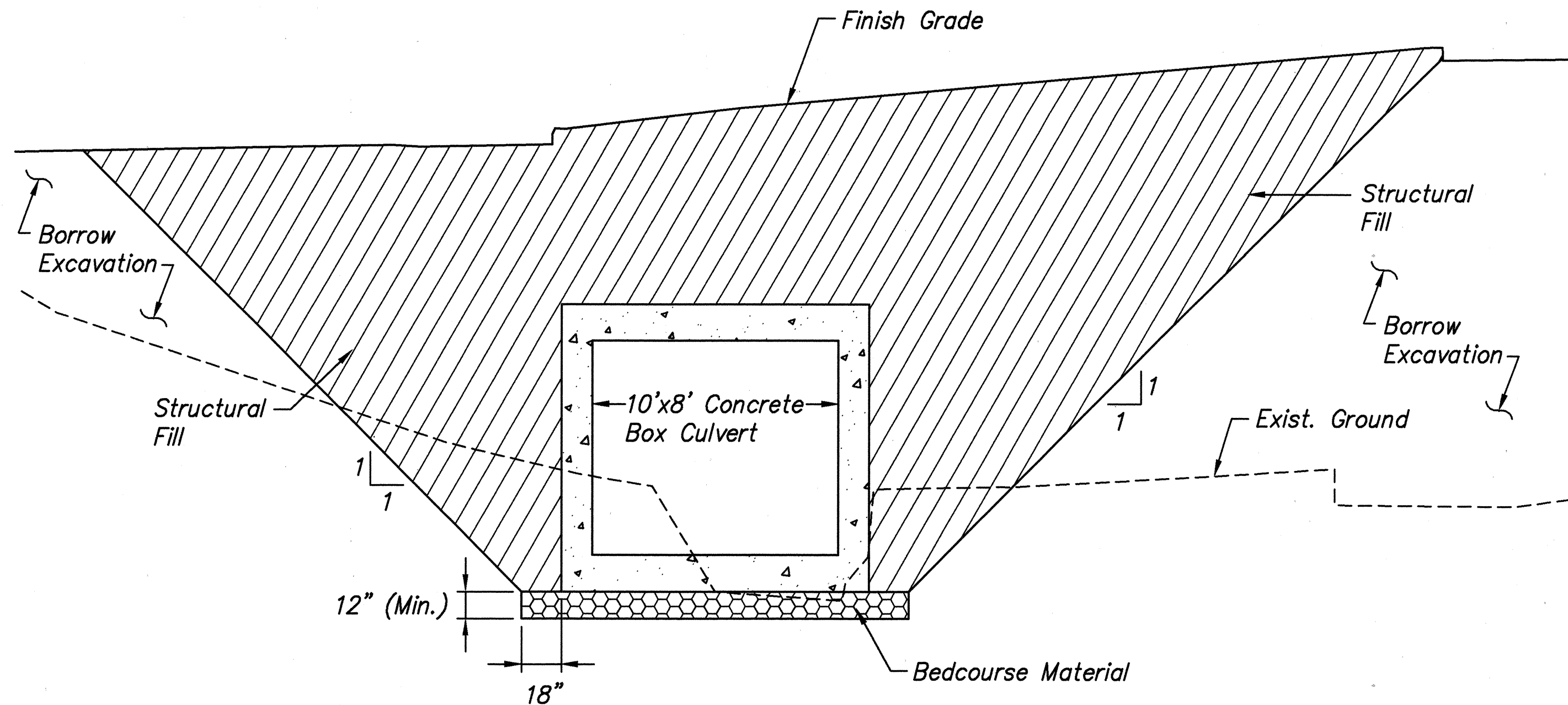
Scale: SCALE: 1/4" = 1'-0"

Notes:

- Connect New Box Culvert to Exist. Box Culvert See Detail Sheet No. 35
- Finish grade along box culvert

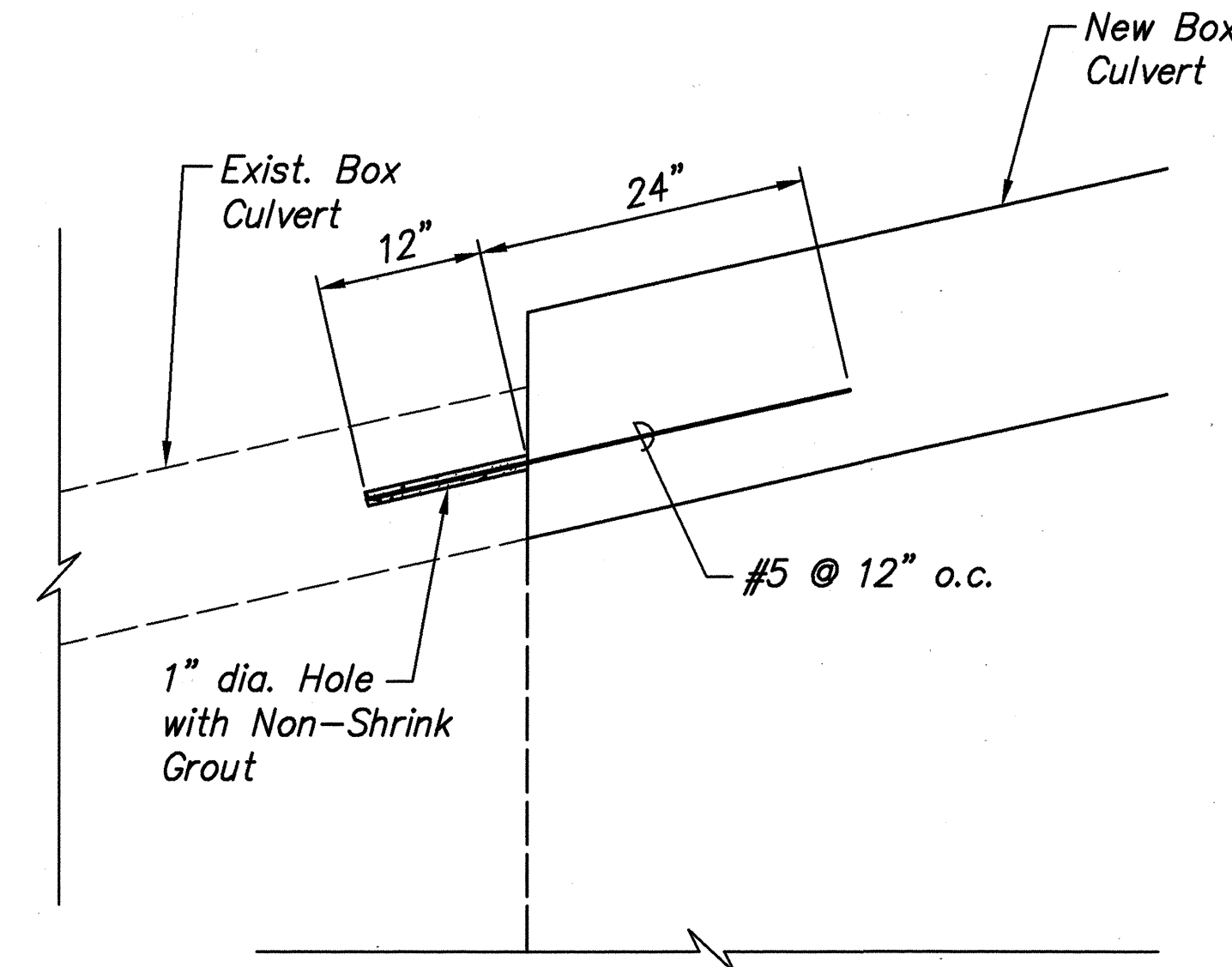
	STATE OF HAWAII
	DEPARTMENT OF TRANSPORTATION
	HIGHWAYS DIVISION
	<u>BOX CULVERT DETAILS</u>
	<i>WILIKINA DR. INTERSECTION IMPROVEMENTS</i>
	<i>AT KAMANANUI ROAD</i>
	<i>Federal Aid Project No. STP-099-1(18)</i>
	<i>Scale: As shown</i>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	<i>Date: June 1999</i>
	SHEET NO. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	35	71



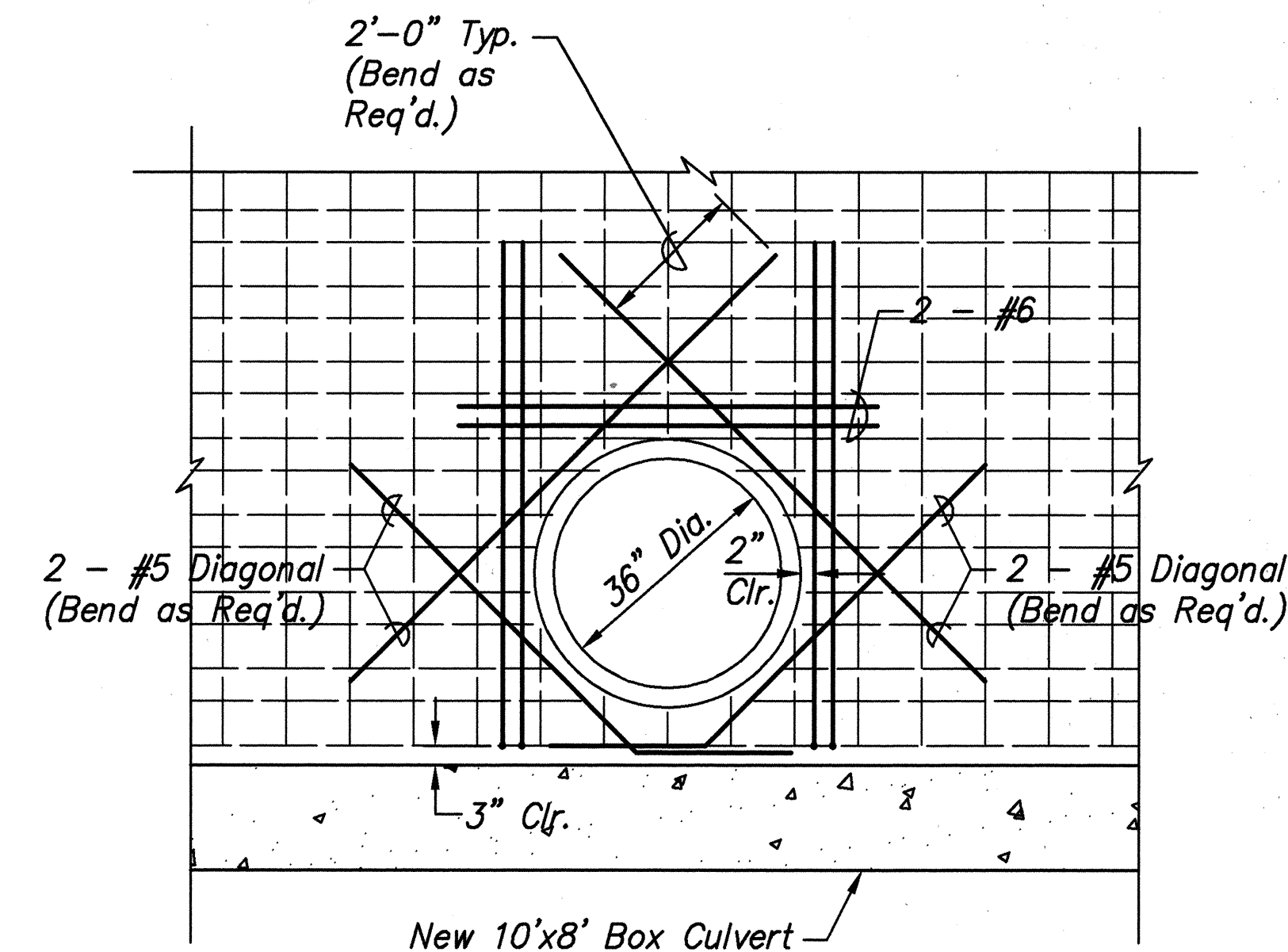
EXCAVATION AND BACKFILL DETAIL

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



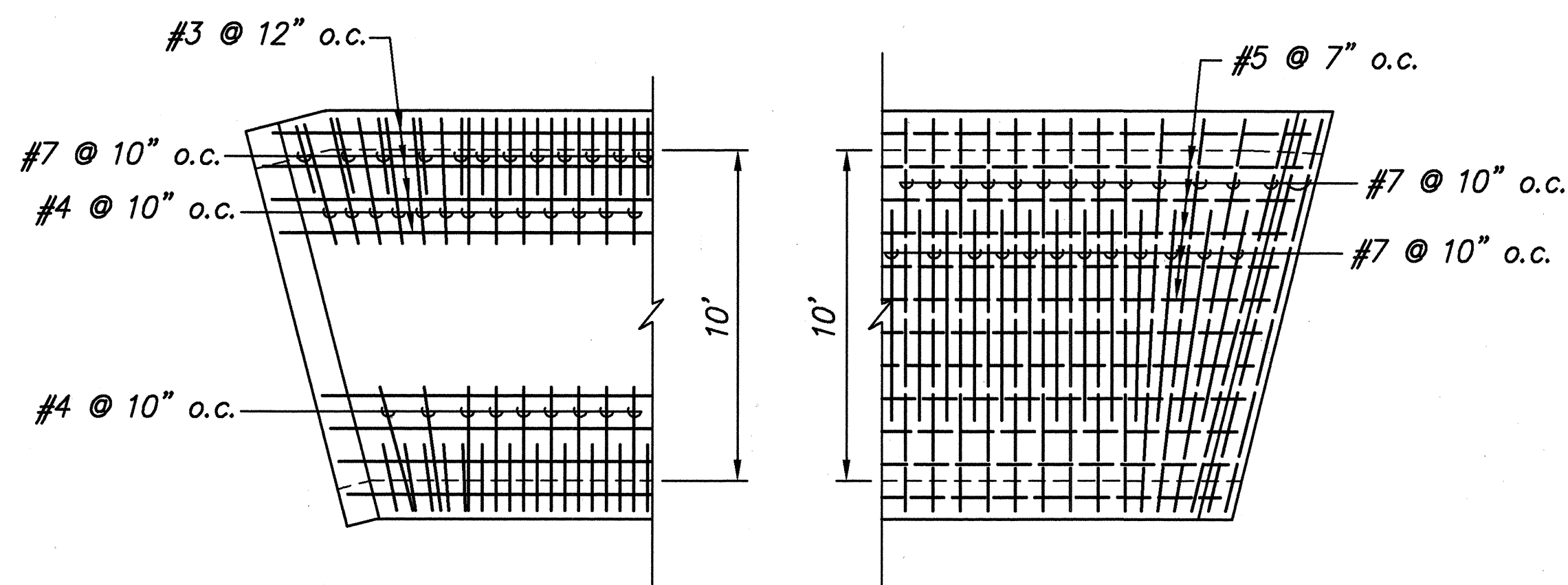
CONNECTION DETAIL

Not to Scale



ADDED REINFORCING FOR CULVERT OPENING

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

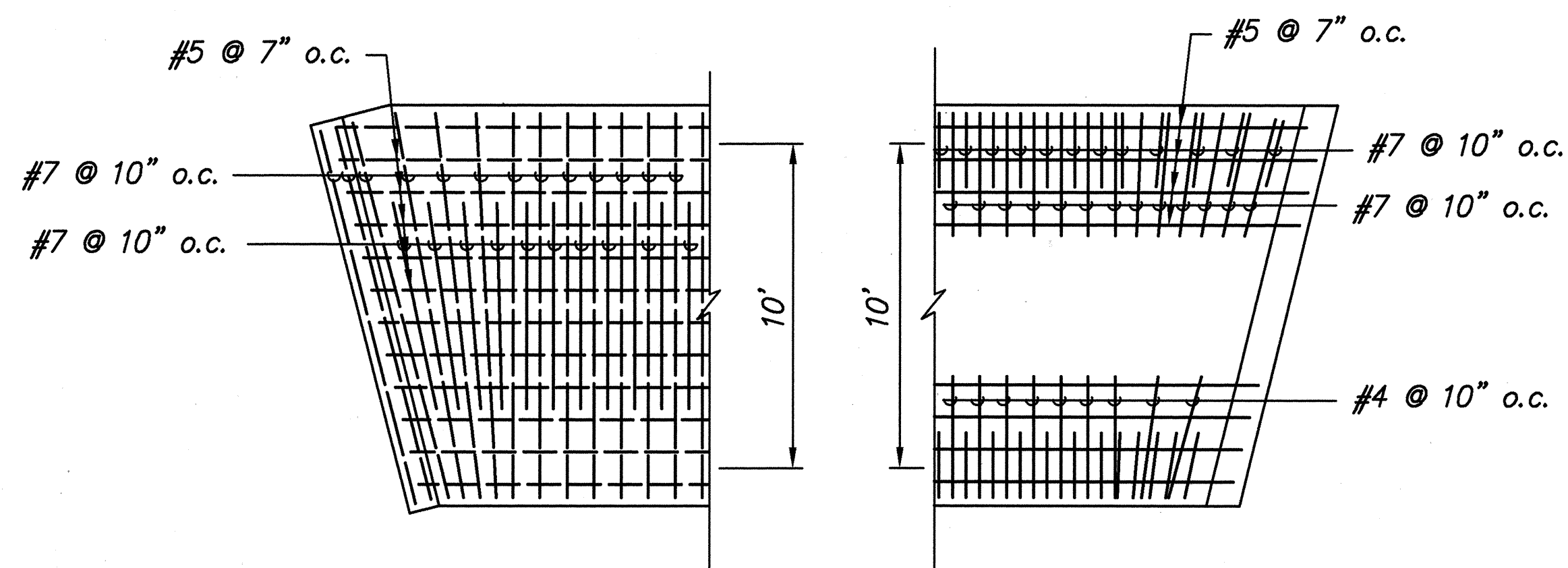


TOP LAYER

BOTTOM LAYER

TOP SLAB SKEWED REINFORCING DETAIL

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



TOP LAYER

BOTTOM LAYER

BOTTOM SLAB SKEWED REINFORCING DETAIL

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

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
NOTED BY	
NO.	

PM: STY
OPER: BKM, RMK, *RGQ, CKY
FILE: DOT95246
SCALE: 1/4"=1'
BEG: 08/09/97
REVISED: 10/01/98

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BOX CULVERT DETAILS

WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)

Scale: As shown Date: June 1999

SHEET NO. 2 OF 2 SHEETS