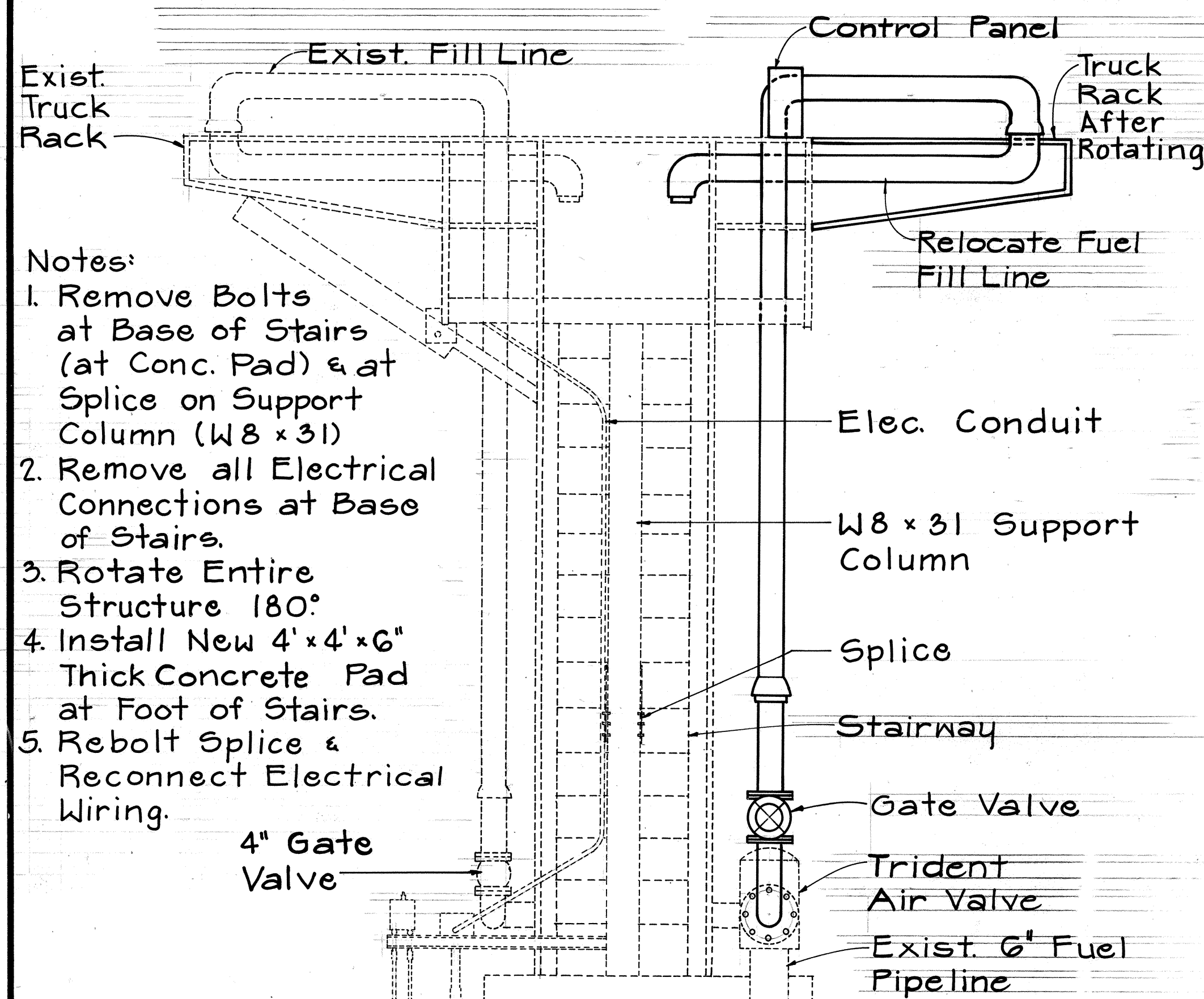
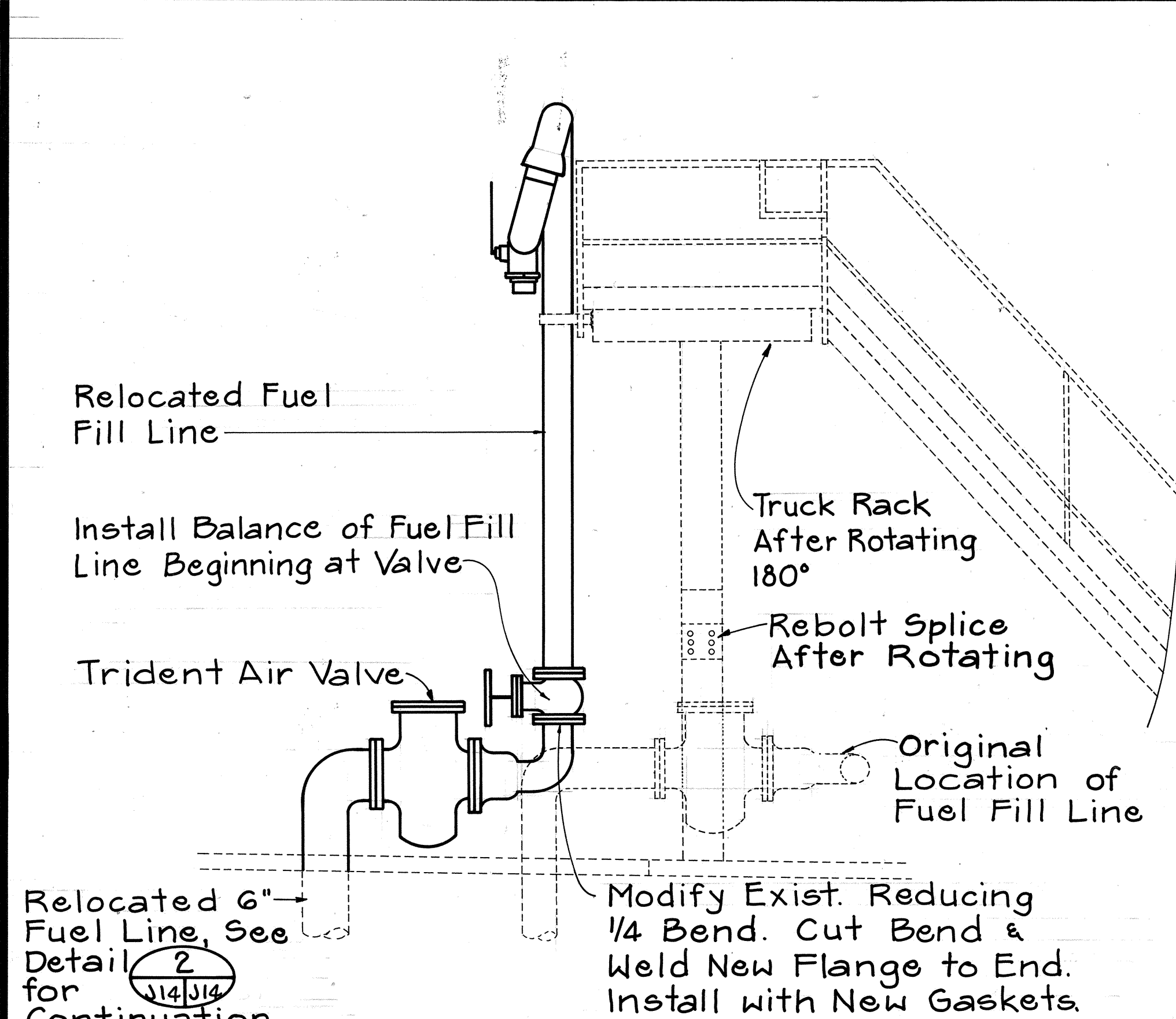


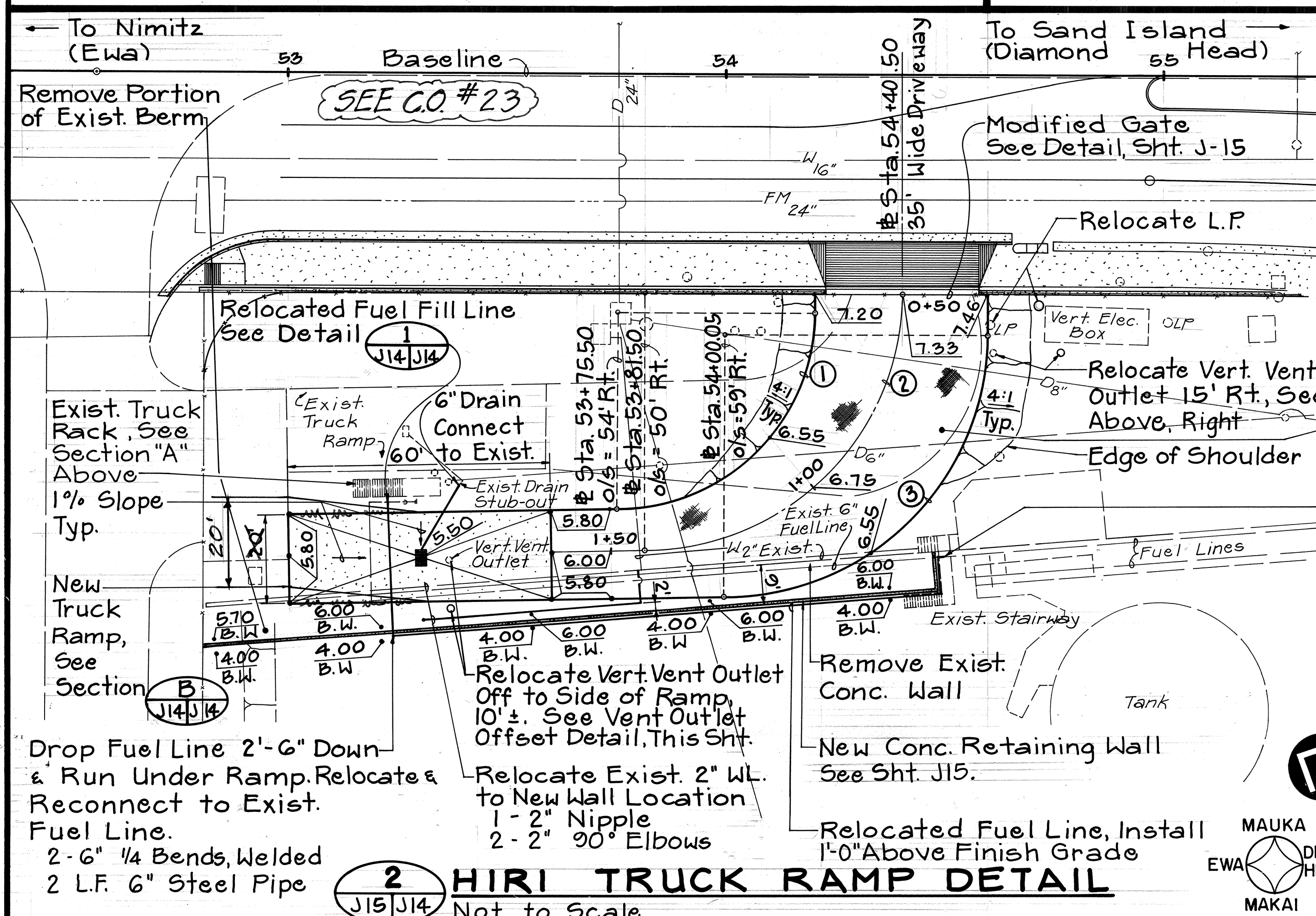
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-064-1(2)	1987	41	151



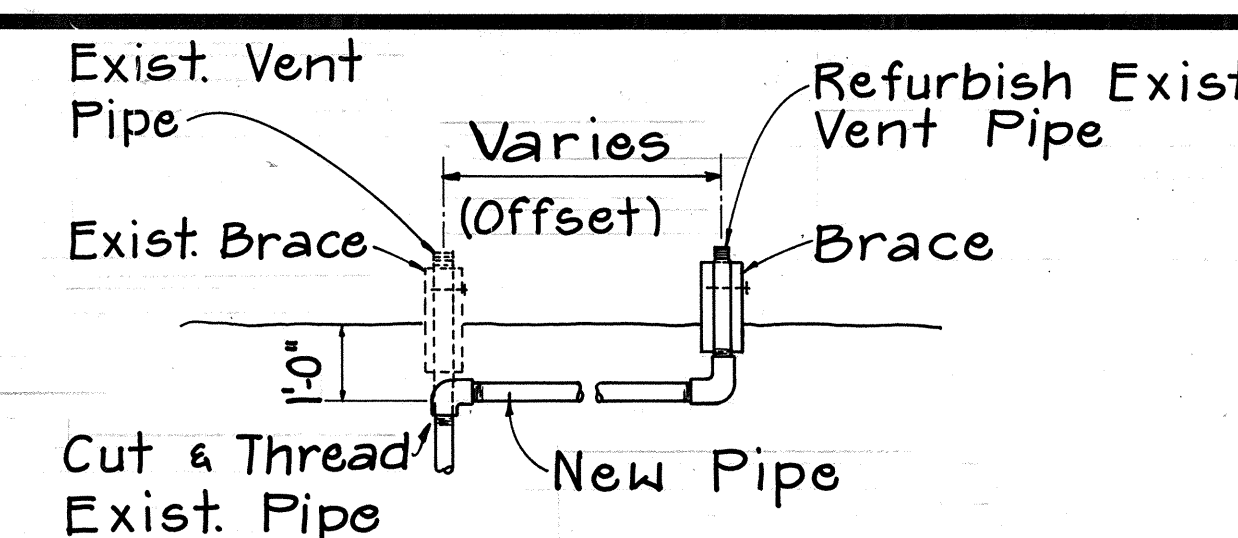
SECTION "A"
Not to Scale



1 FILL LINE MODIFICATION DETAIL
Not to Scale



2 HIRI TRUCK RAMP DETAIL
Not to Scale

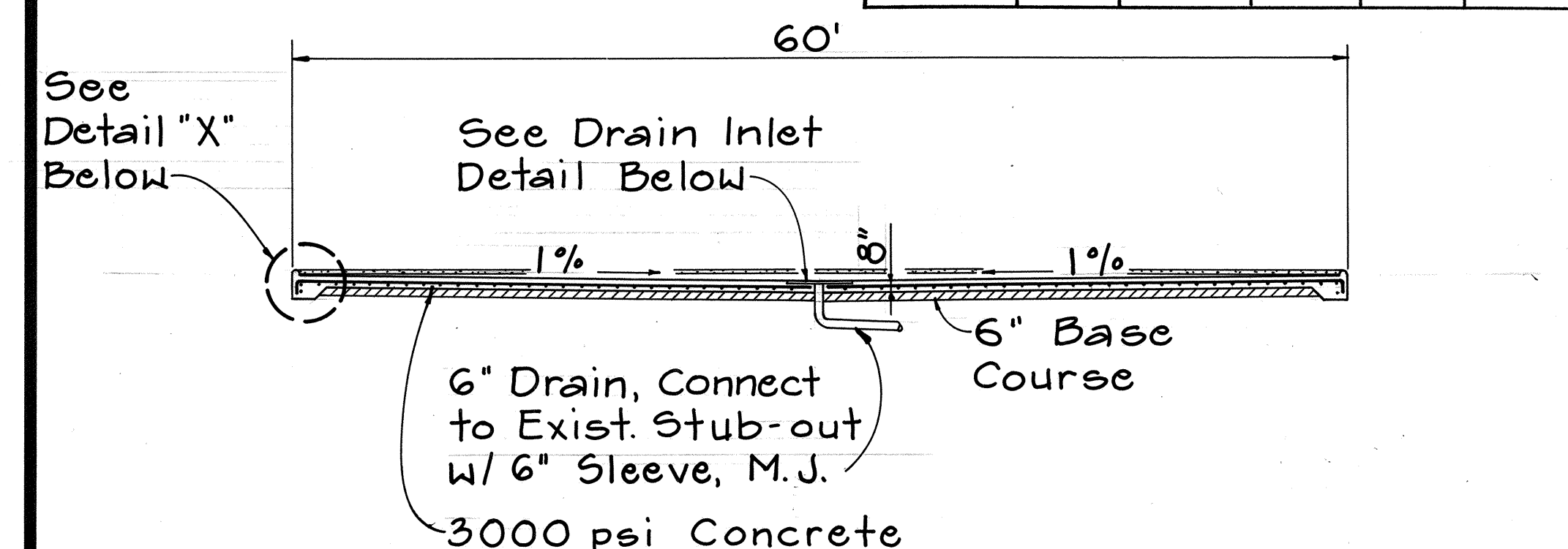


VERT. VENT OUTLET OFFSET
Not to Scale

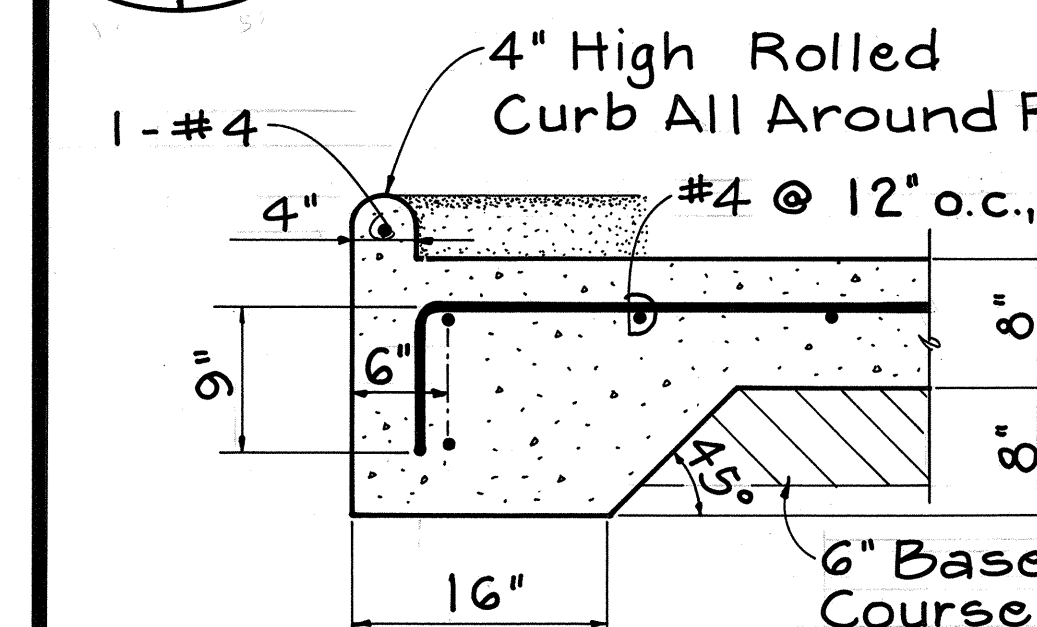
Note: Contractor to Verify Exist. Conditions Prior to Starting Work.

Cut Exist. Fuel Line & Relocate to Bottom of New Wall. Offset New Fuel Line 9' Rt. Support Pipe w/ New Hangers. 2-6" 1/4 Bends, Steel, Welded 12 L.F. 6" Steel Pipe, Sch. 40 ASTM A53 Grade B

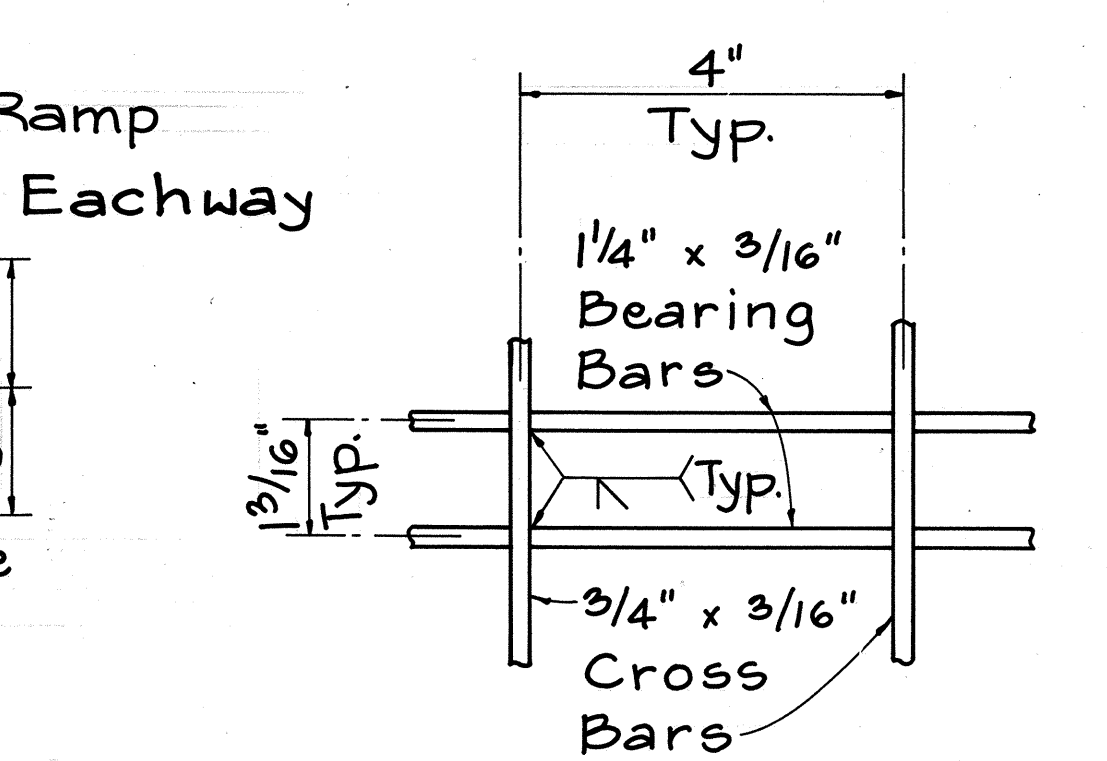
CURVE DATA			
	①	②	③
Δ	90° 00' 00"	90° 00' 00"	90° 00' 00"
Δ/2	45° 00' 00"	45° 00' 00"	45° 00' 00"
R	45.00'	59.00'	60.00'
T	45.00'	59.00'	60.00'
C	63.64'	83.44'	84.85'
Lc	70.69'	92.68'	94.25'



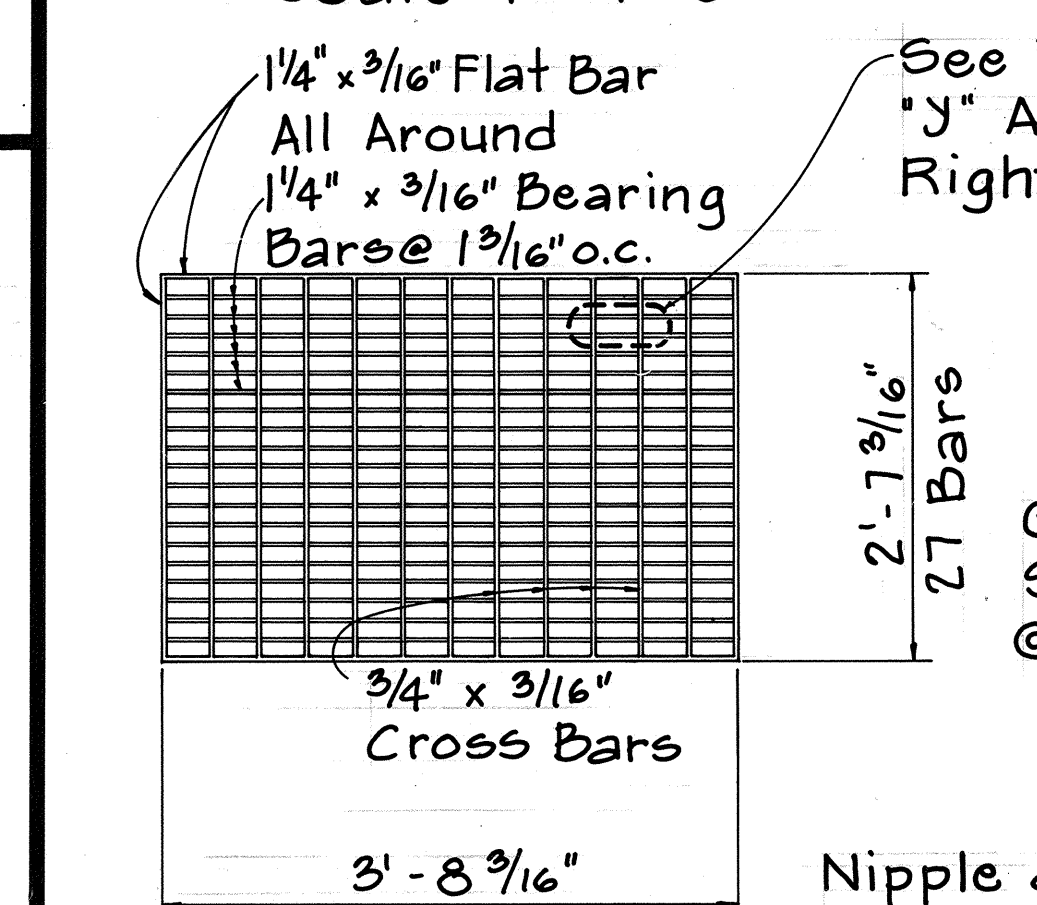
B TRUCK RACK RAMP SECTION
Not to Scale



DETAIL "X"
Scale: 1" = 1'-0"

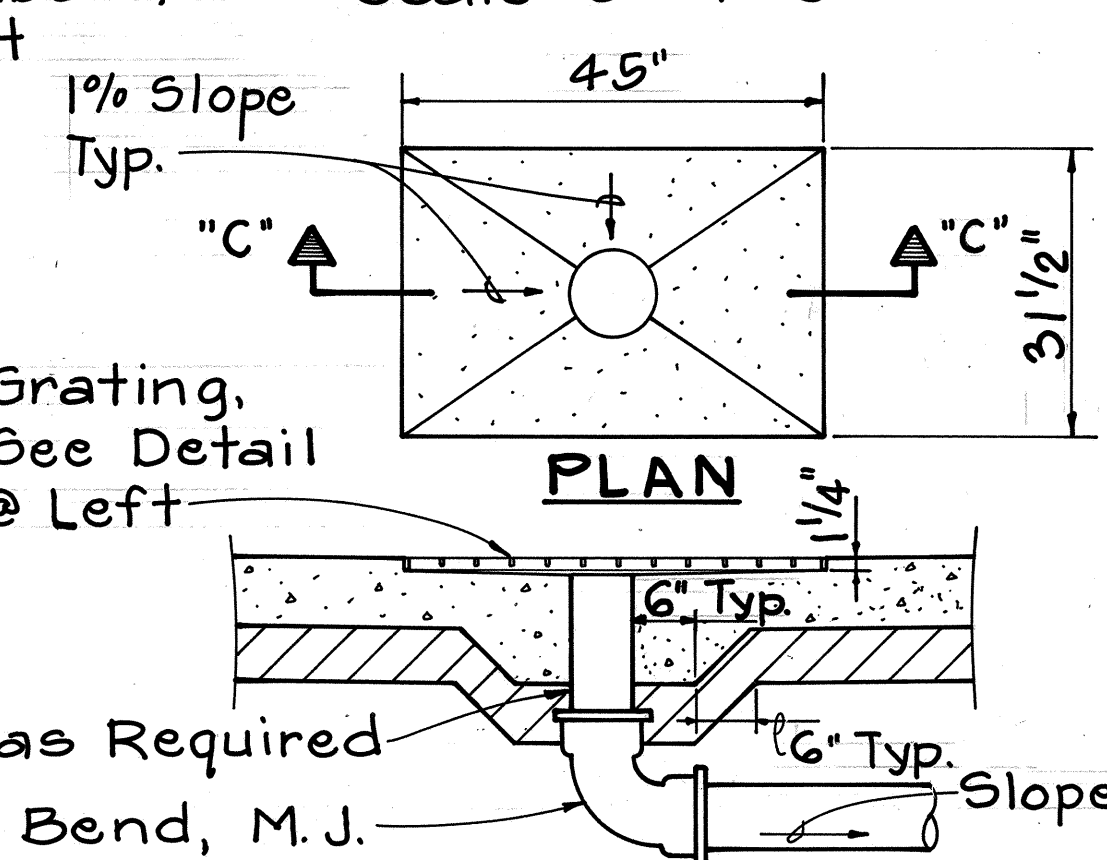


DETAIL "Y"
Scale: 6" = 1'-0"



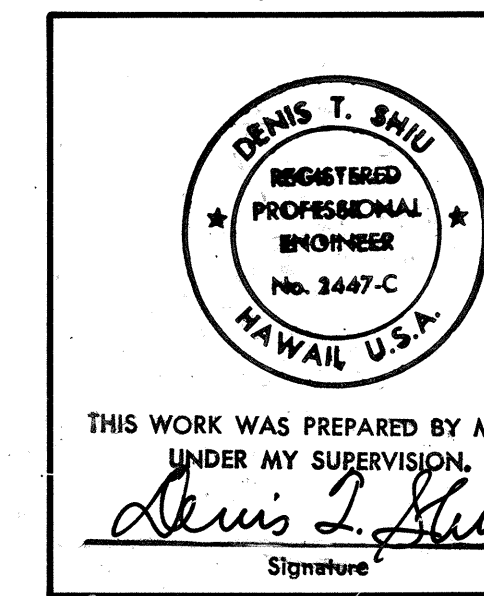
Note: Grating to be Hot-Dipped Galvanized after Fabrication.

GRATING
Not to Scale



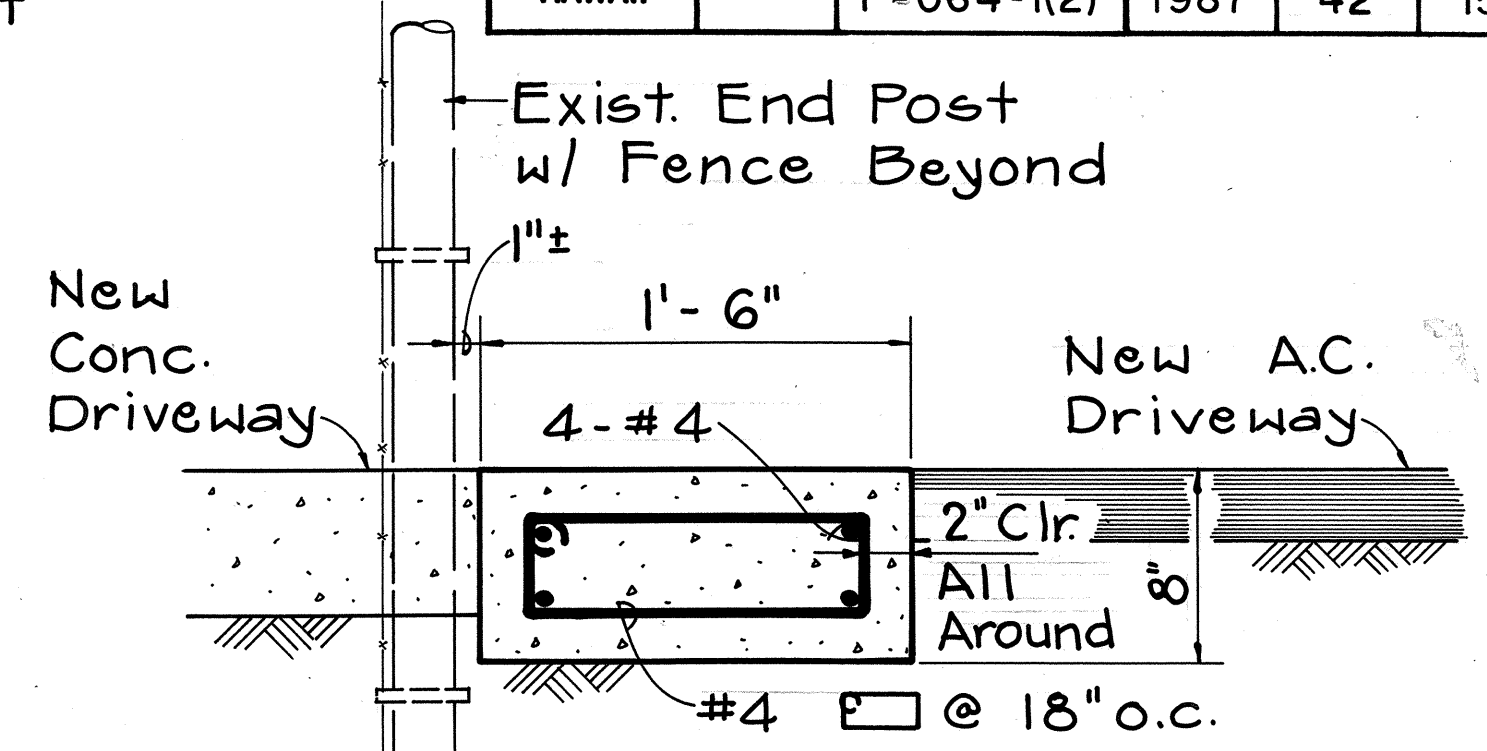
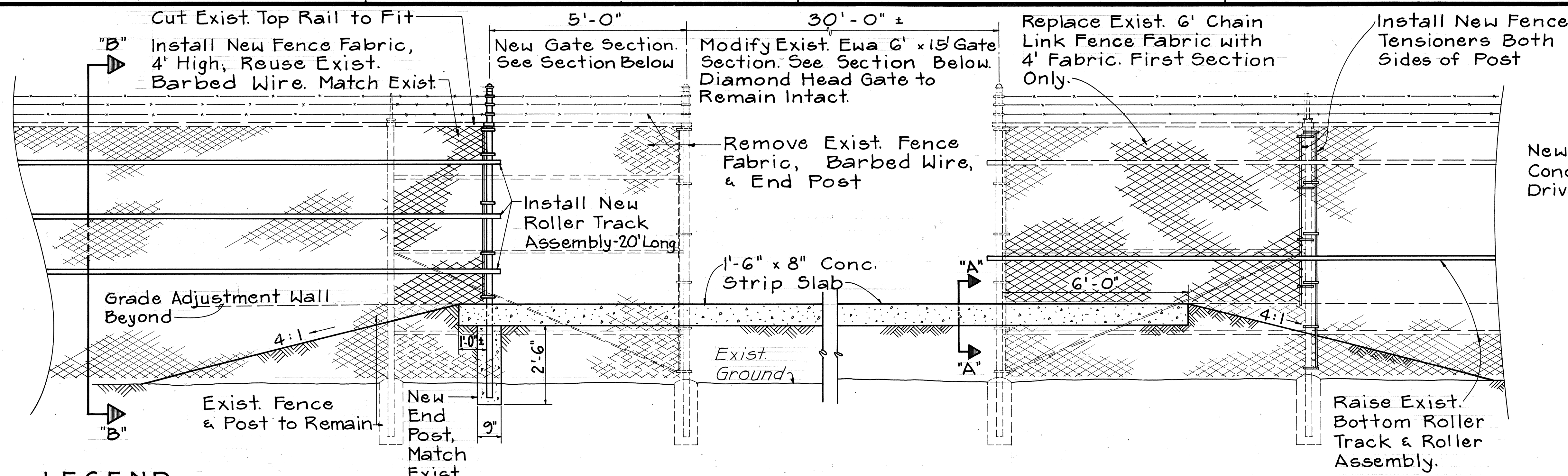
SECTION "C-C" DRAIN INLET
Not to Scale

APPROVED: *W.W. Melh* 9/18/85
HAWAIIAN INDEPENDENT REFINERY, INC. DATE



DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION	
HIRI TERMINAL MODIFICATION	
SAND ISLAND ROAD WIDENING 2ND BRIDGE AND APPROACHES FEDERAL AID PROJECT NO. F-064-1(2)	
SCALE: AS NOTED	DATE: JUN, 1986
SHEET NO. J14 OF 17 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-064-(12)	1987	42	151

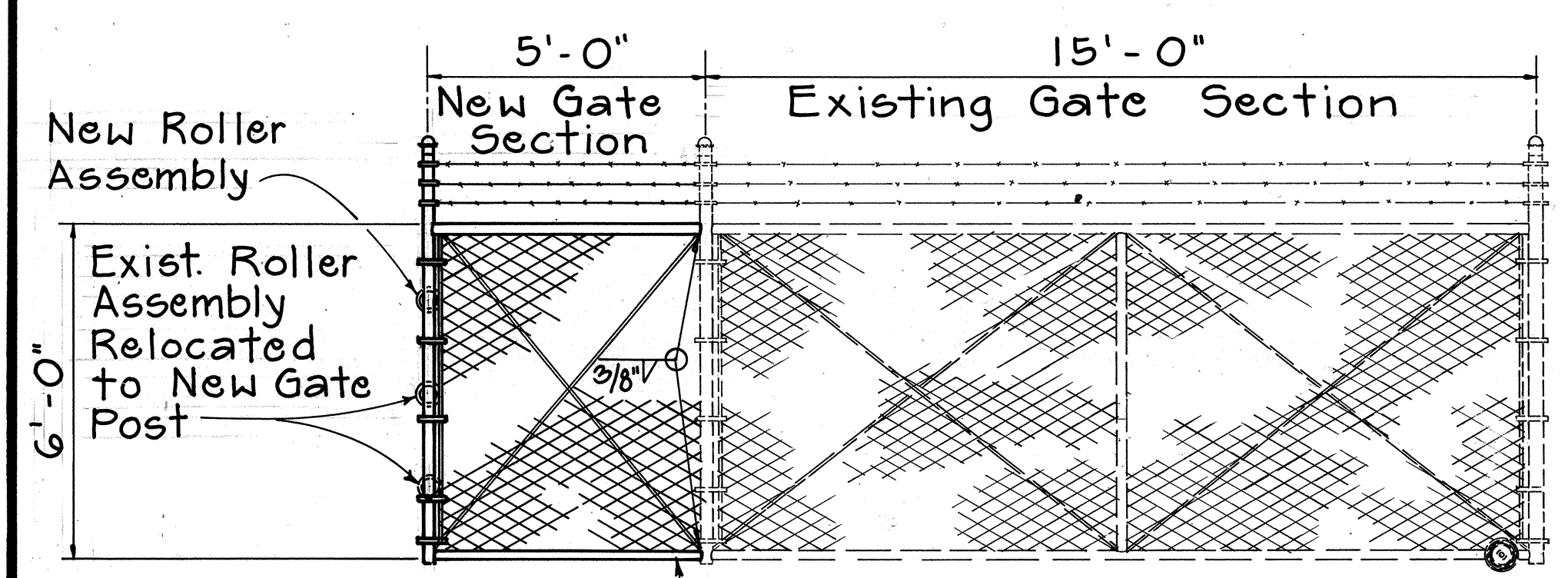


SECTION "A-A"
Scale: 1/2" = 1'-0"

- LEGEND**
- New Fence
 - Existing Fence to Remain
 - Existing Fence to be Removed

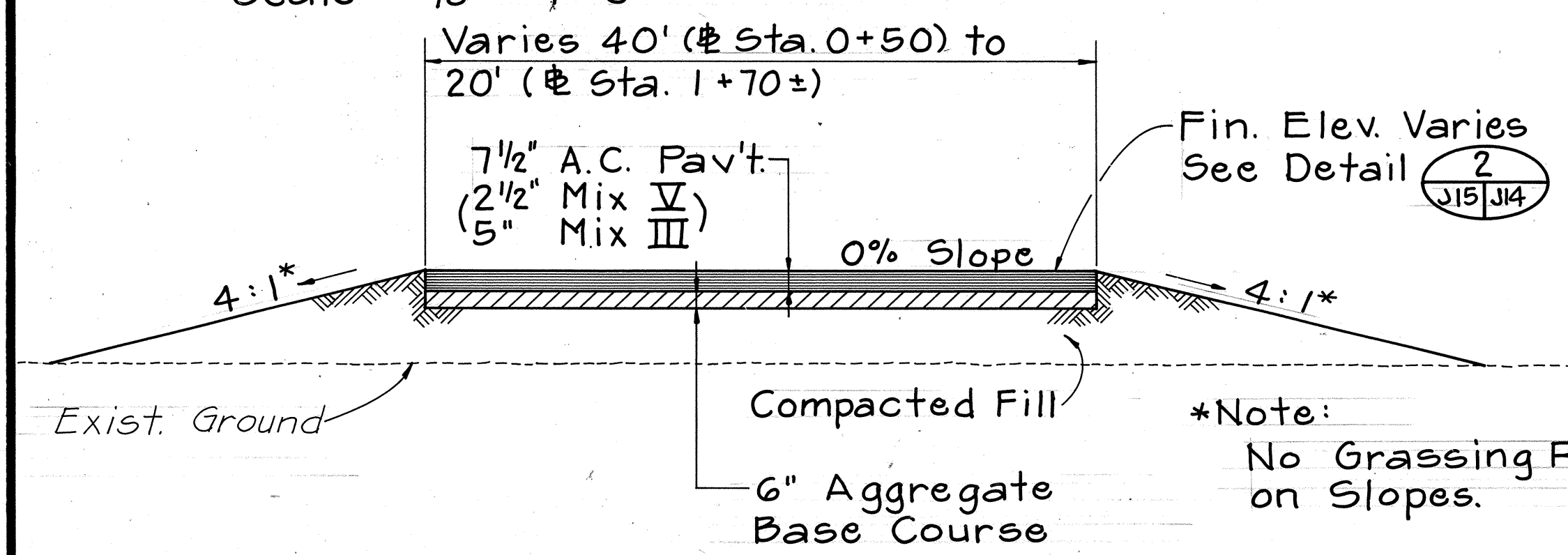
SECTION - HIRI TERMINAL GATE MODIFICATION (Looking Mauka)

Not to Scale



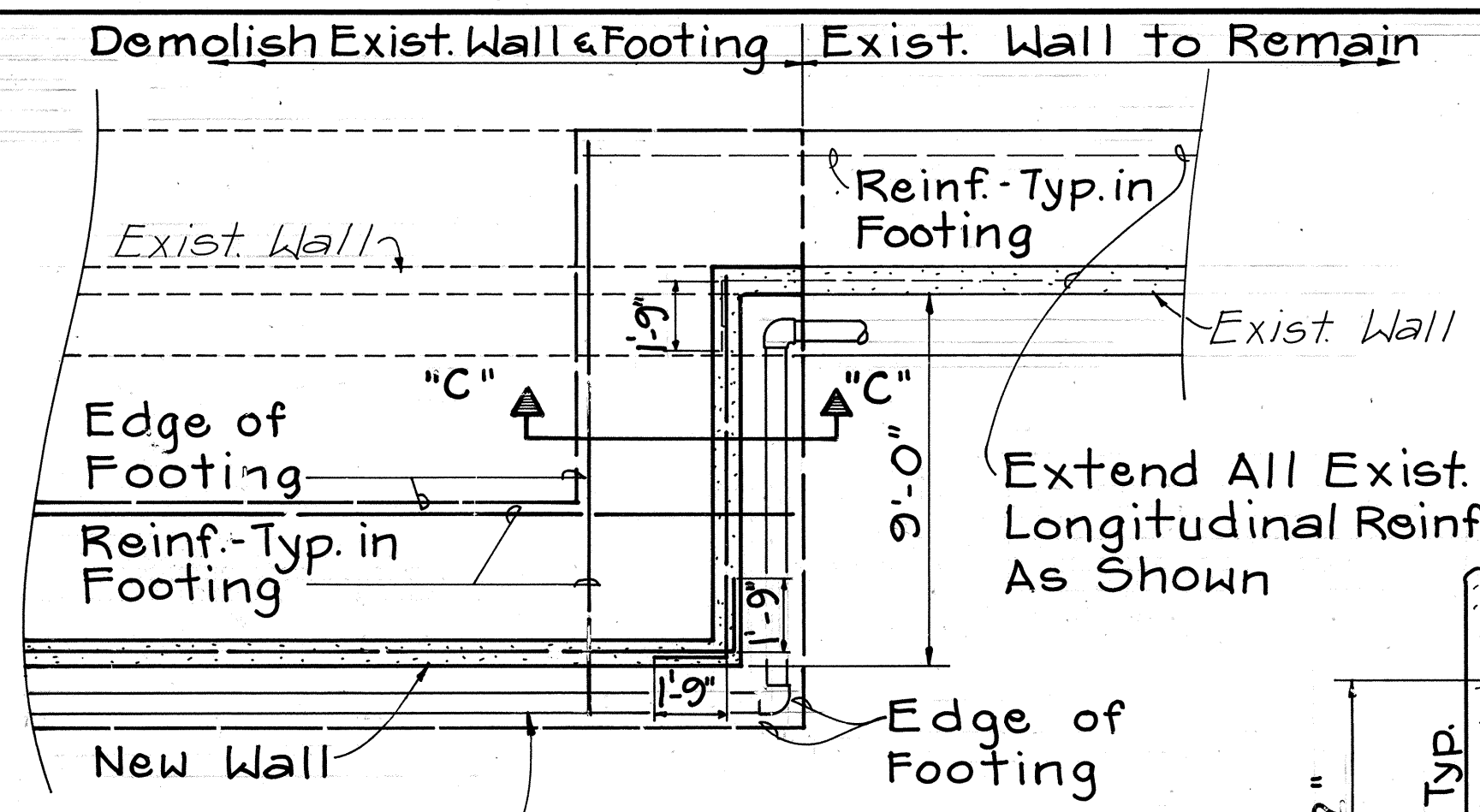
MODIFIED EWA GATE SECTION

Scale: 3/8" = 1'-0"

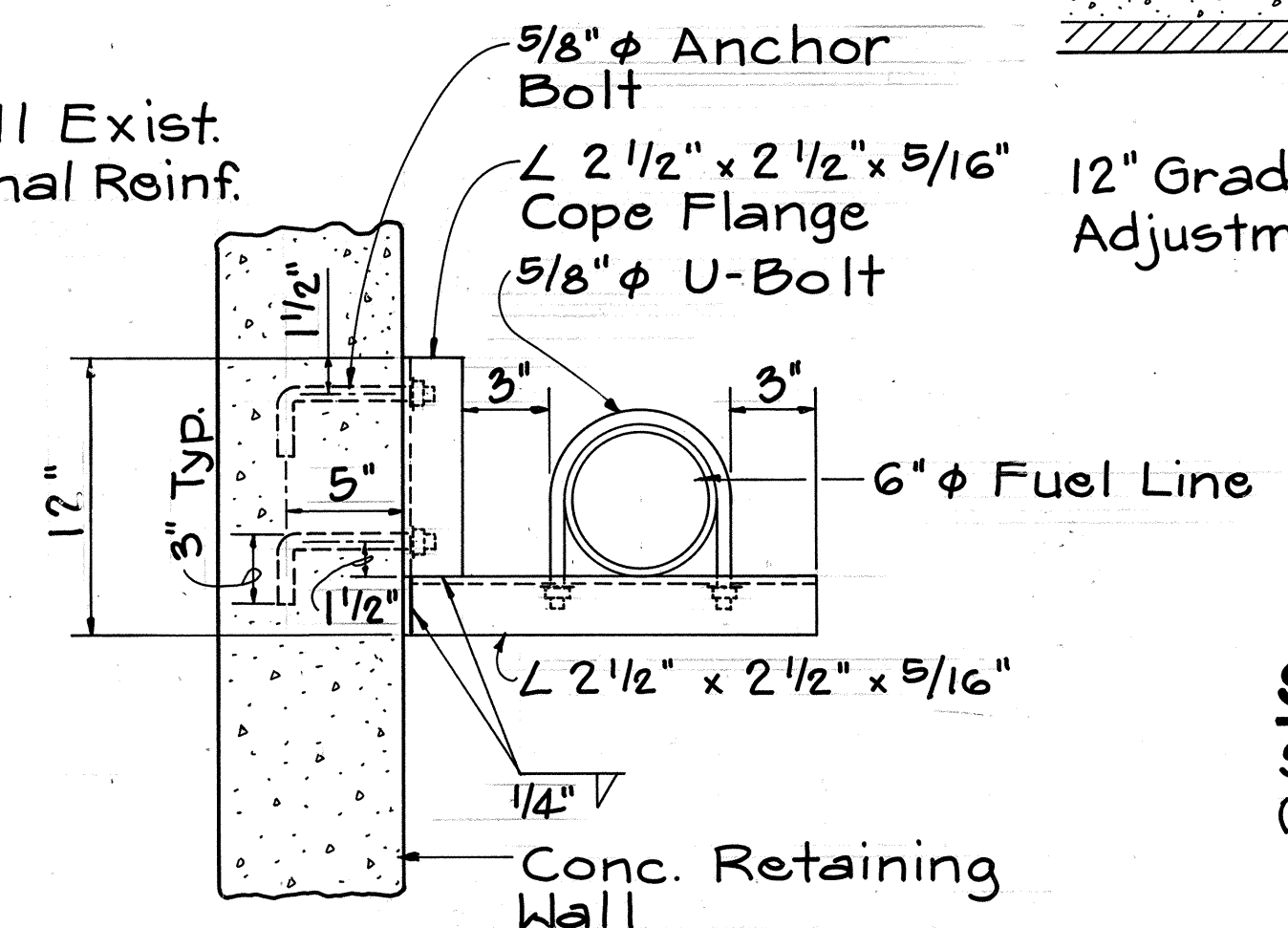


TYPICAL SECTION - HIRI A.C. DRIVEWAY

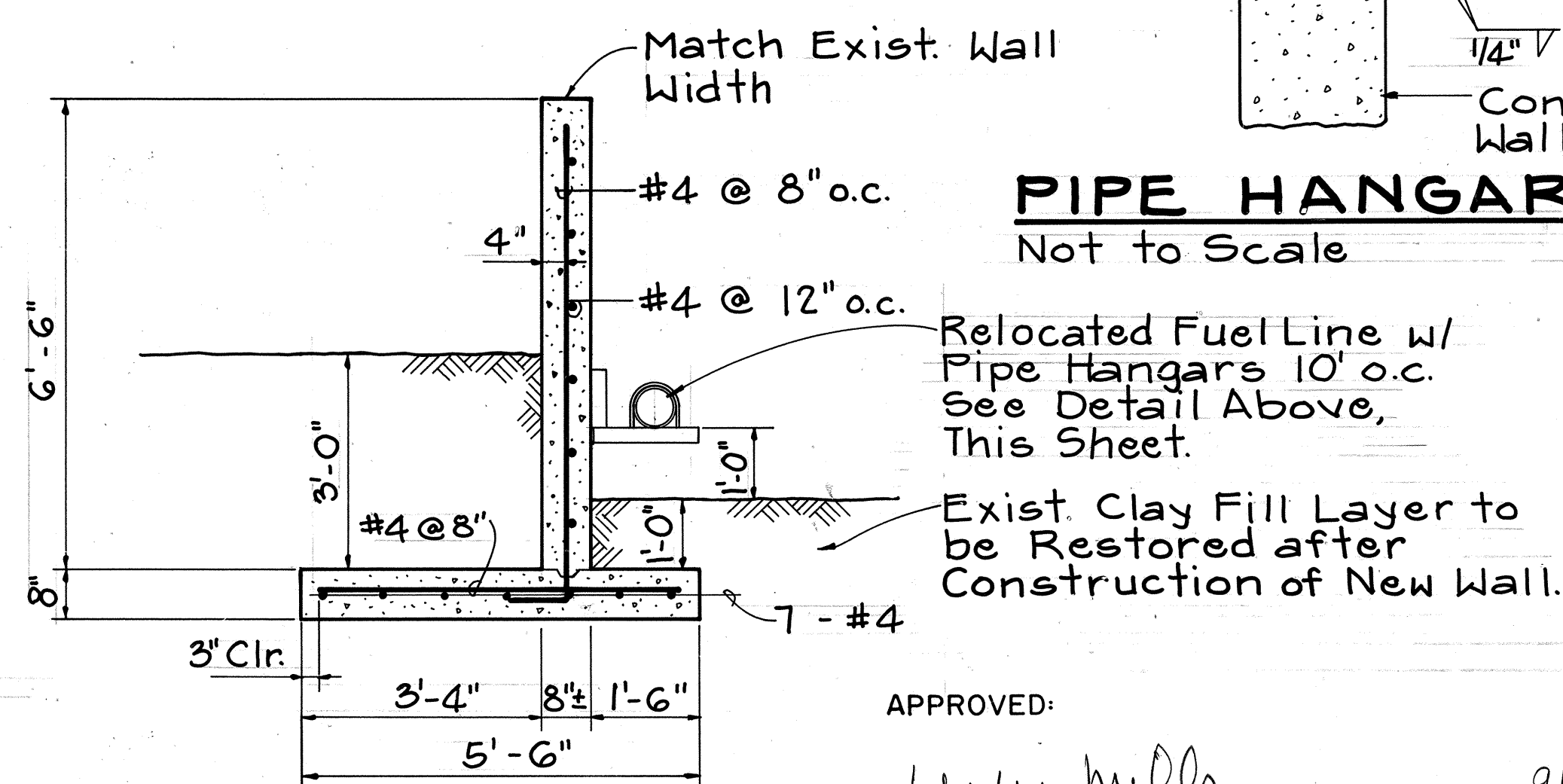
(Sta. 0+50 to Sta. 1+71±)
Scale: 1/4" = 1'-0"



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



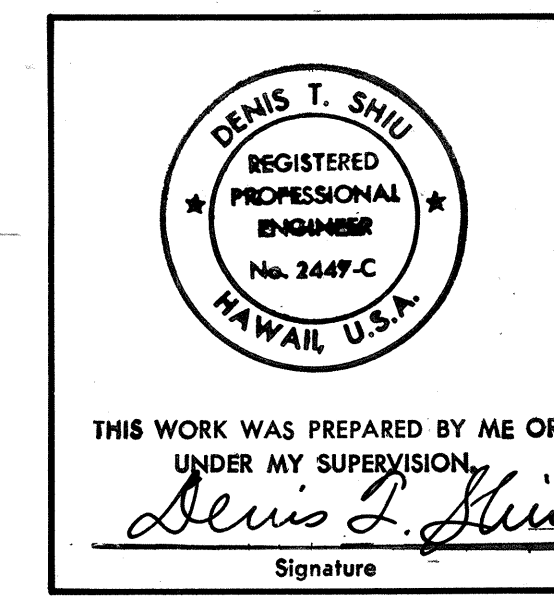
PIPE HANGAR DETAIL
Not to Scale



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

HIRI TERMINAL RETAINING WALL

APPROVED: *W.W. Mills*
HAWAIIAN INDEPENDENT REFINERY, INC. 9/18/85
DATE

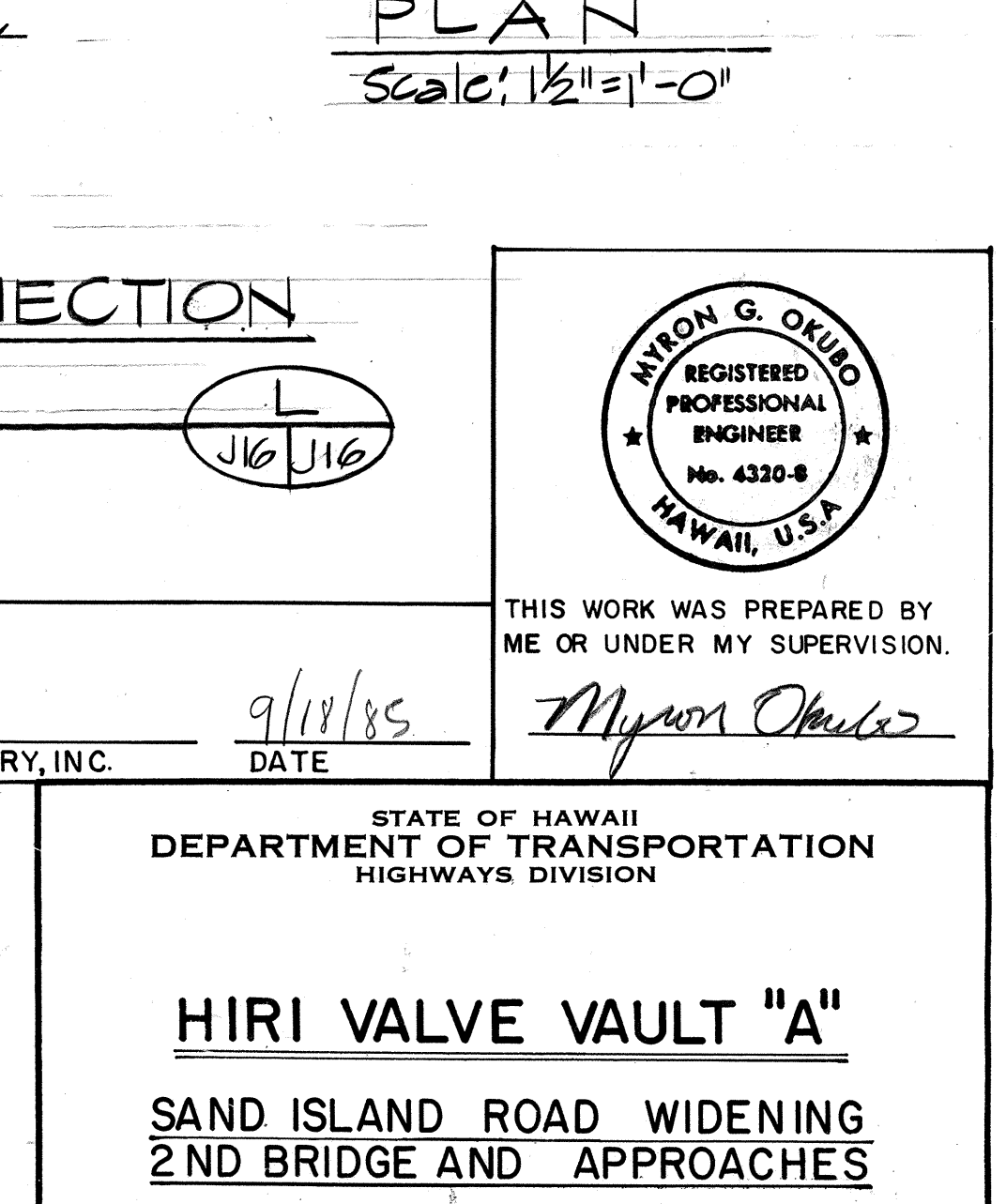
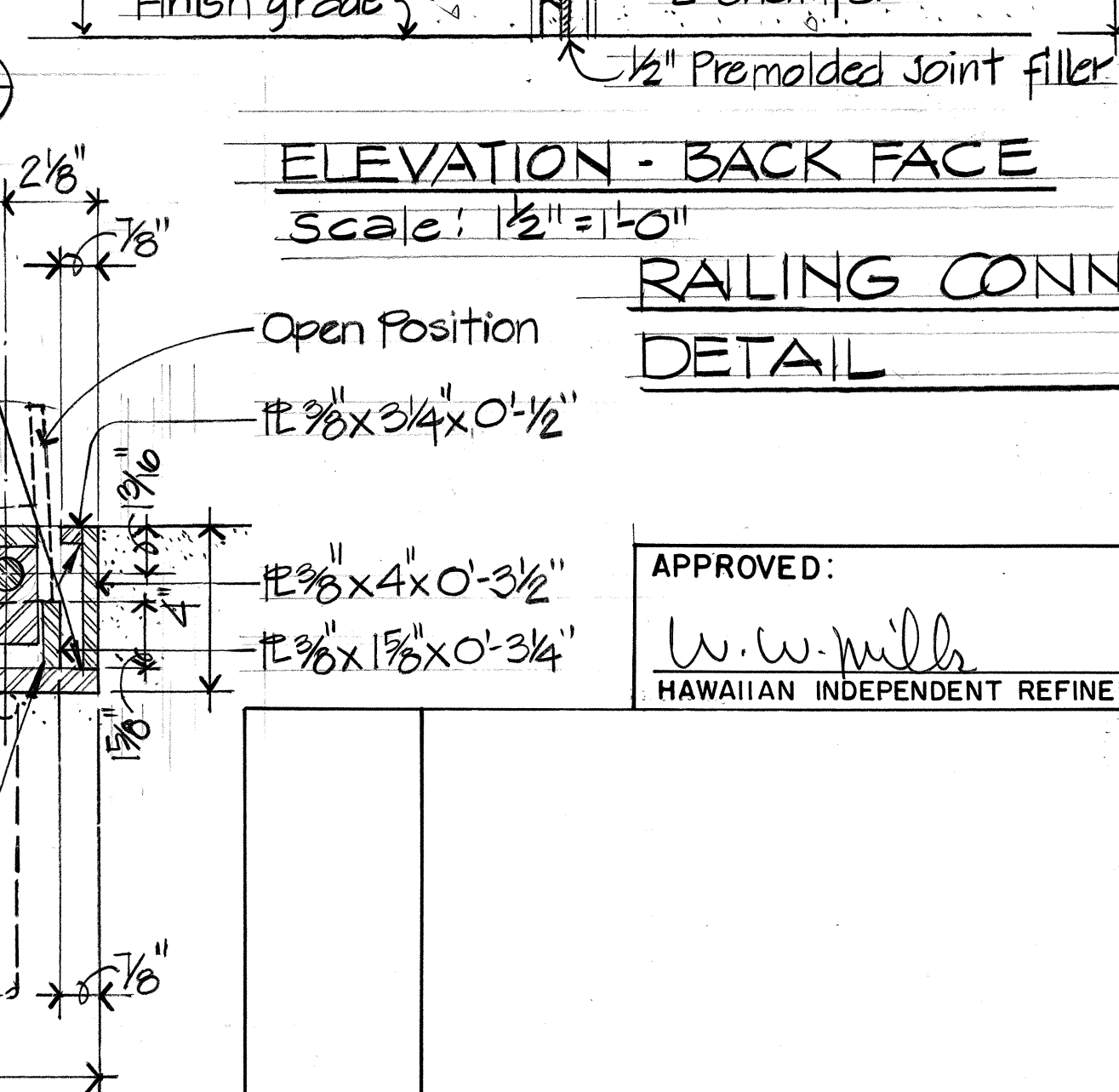
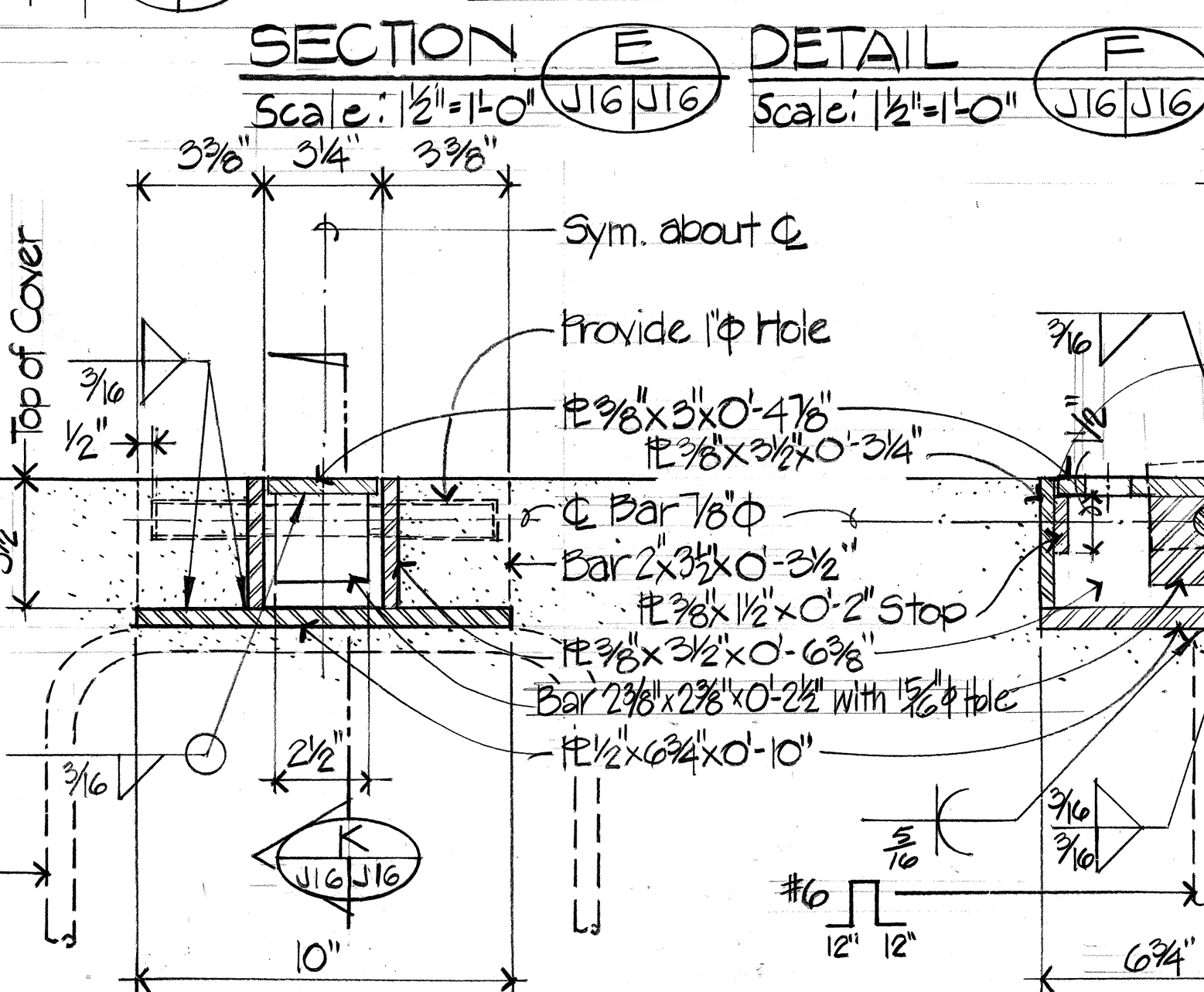
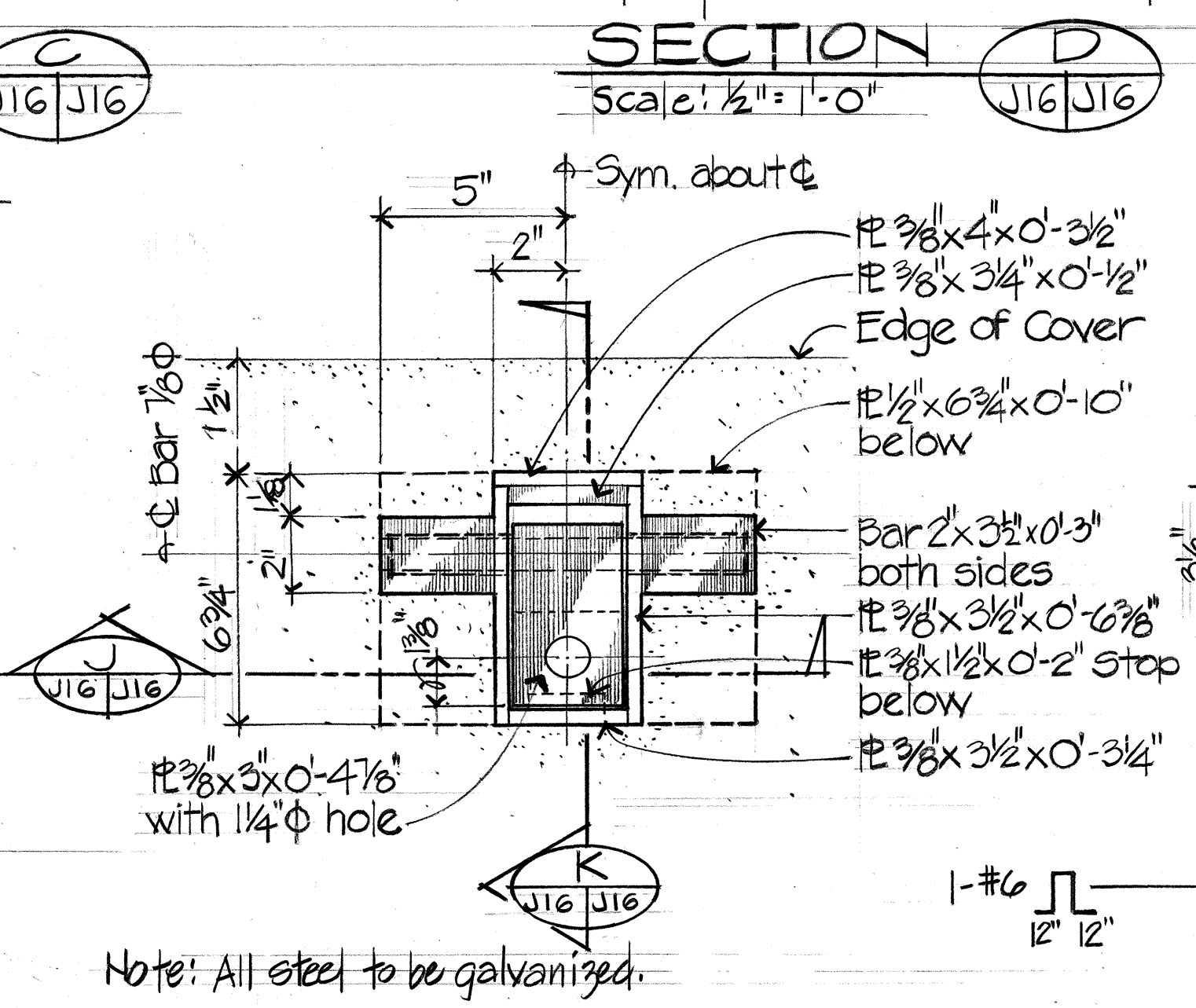
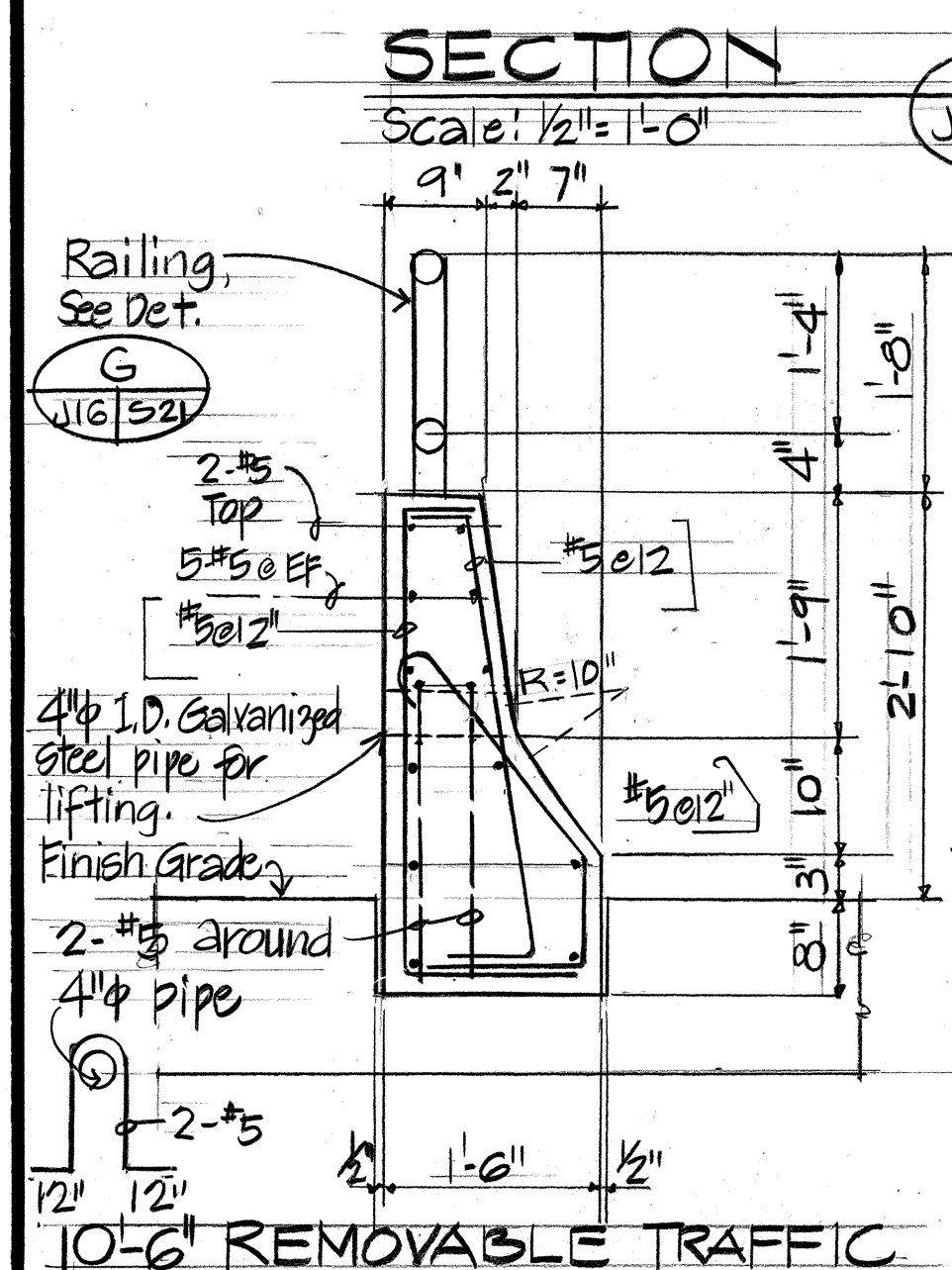
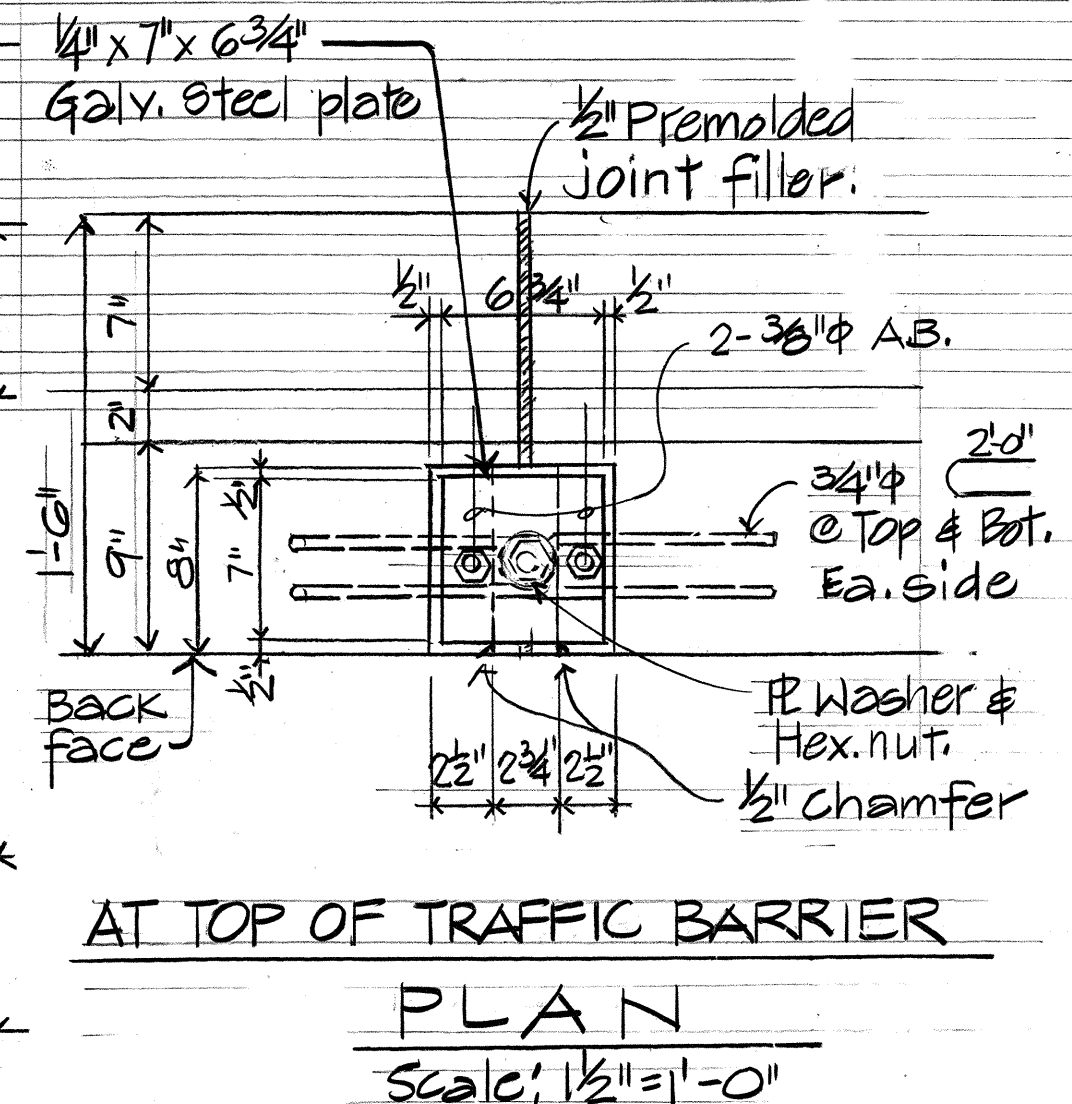
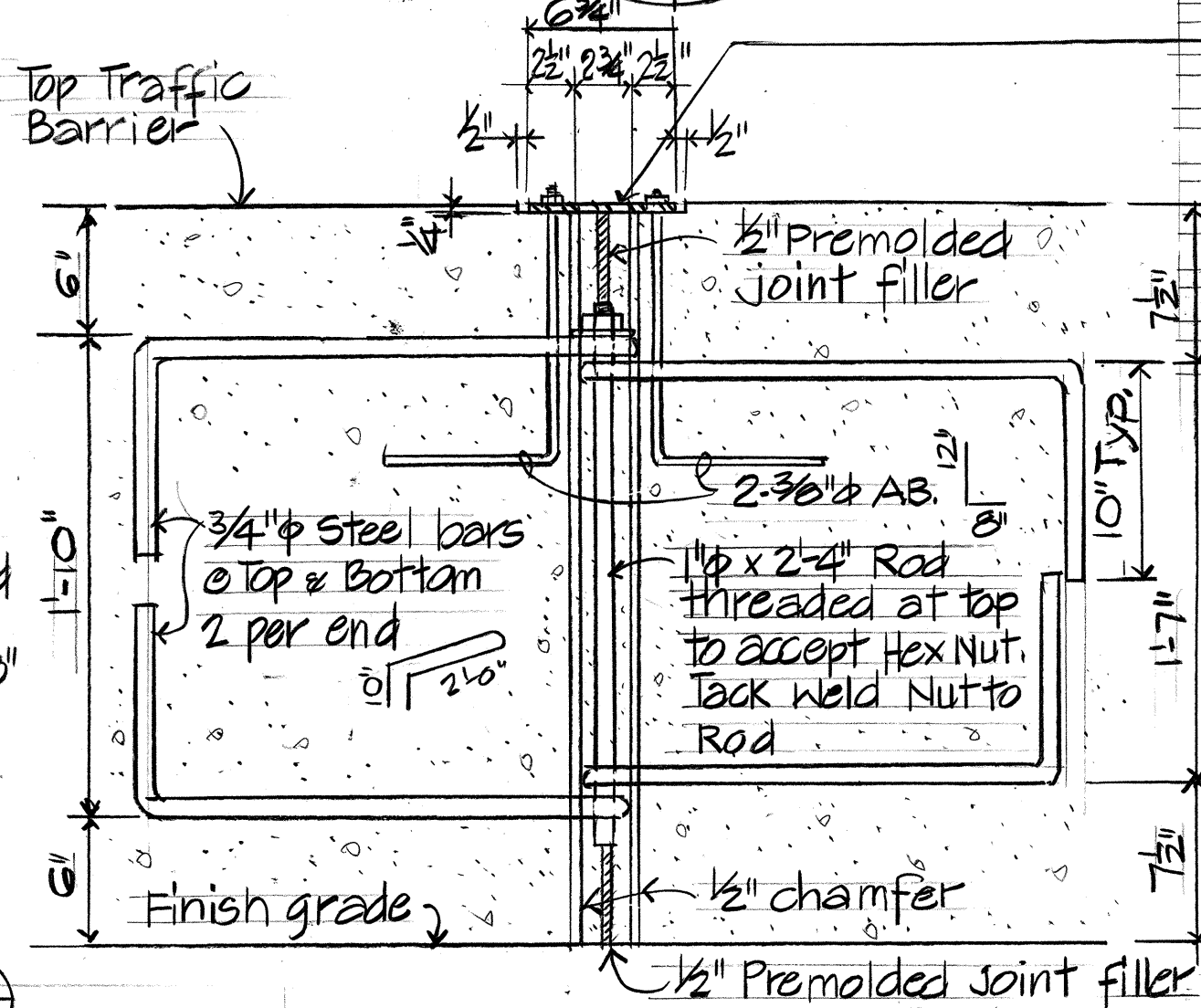
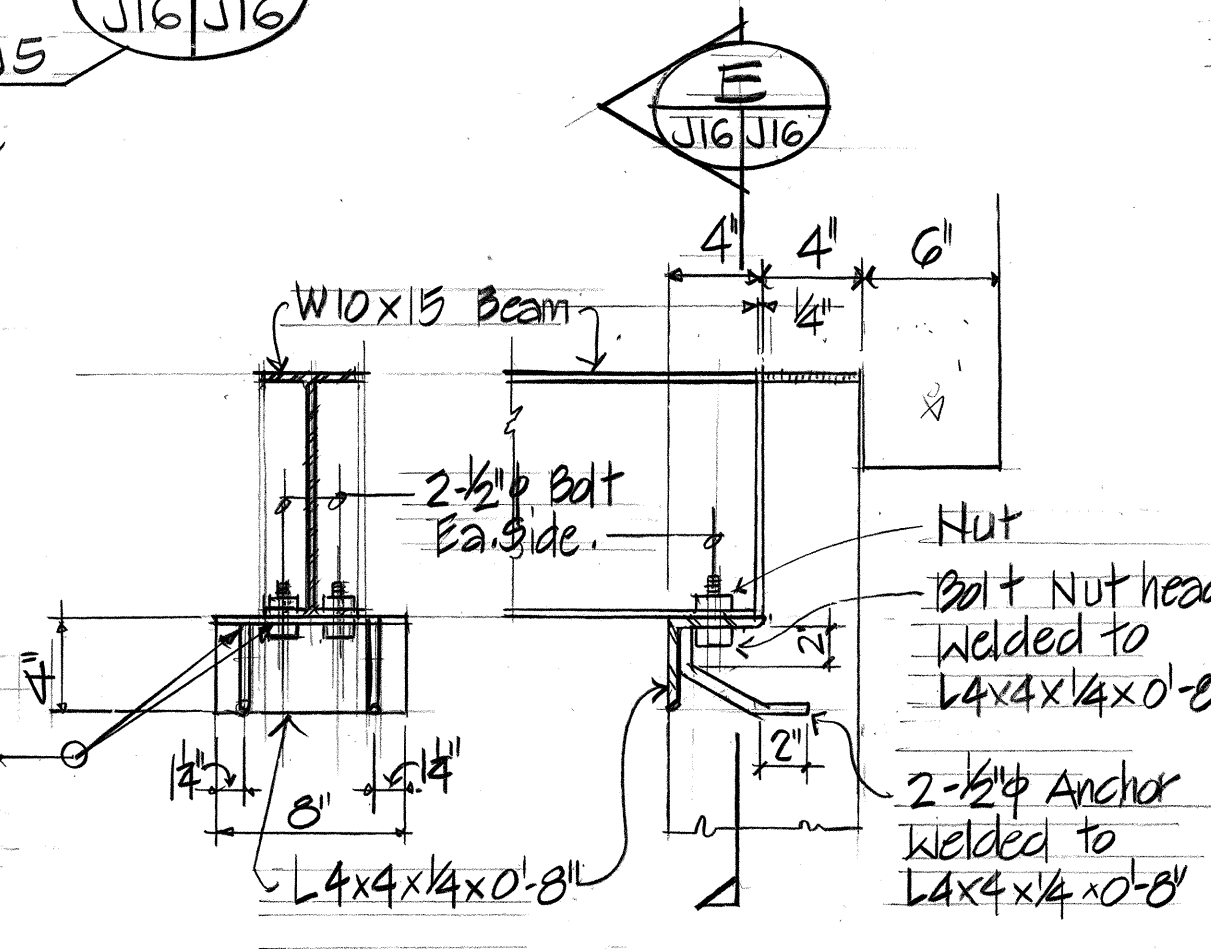
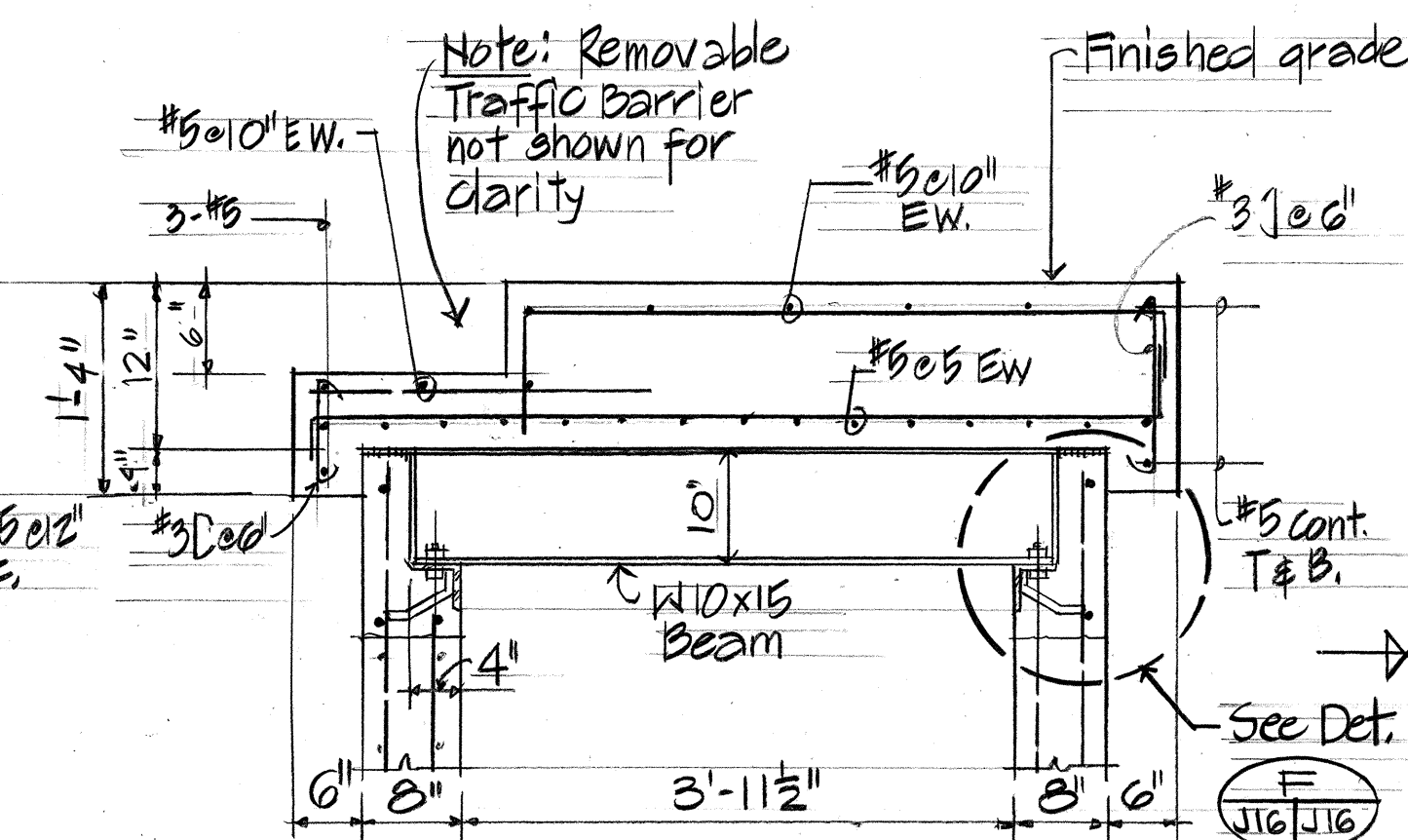
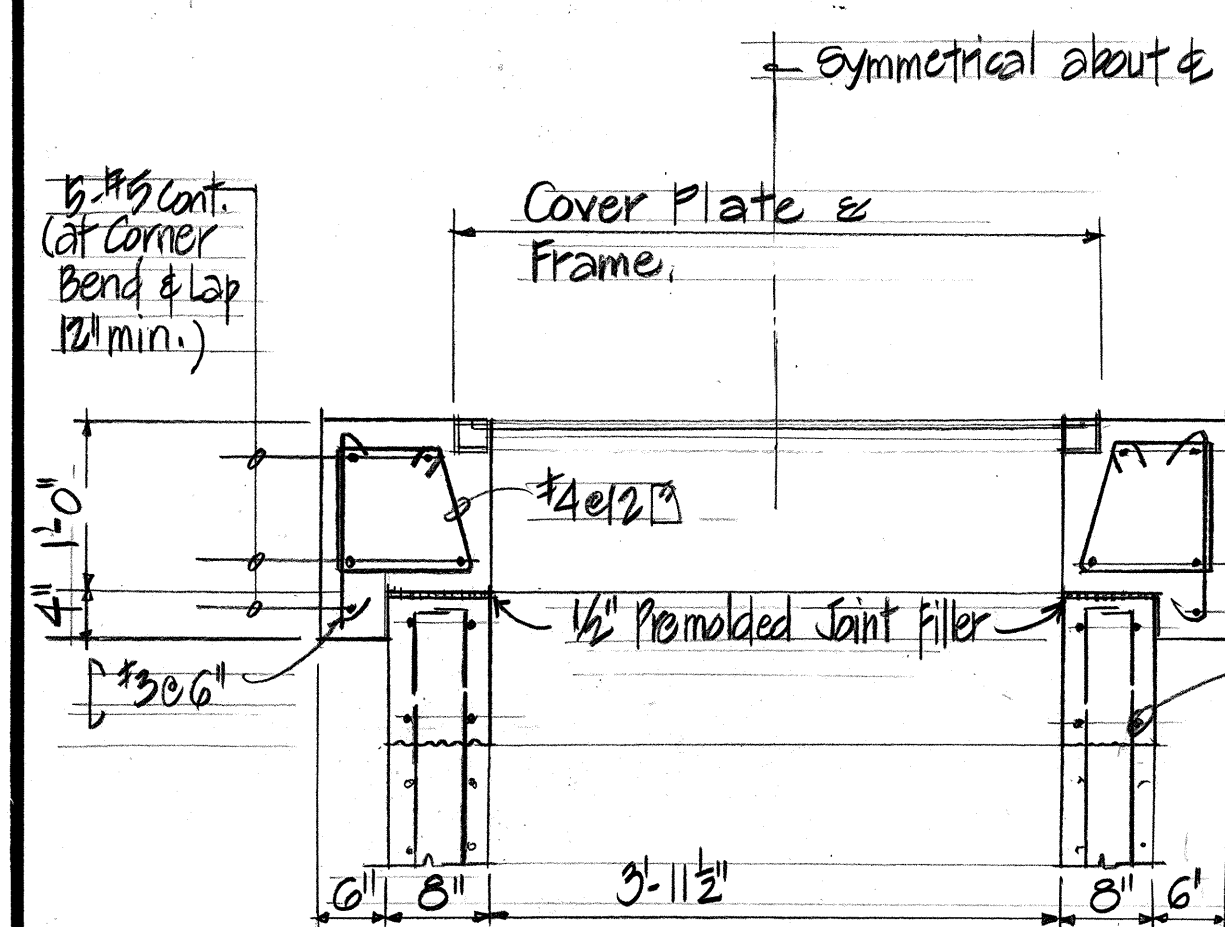
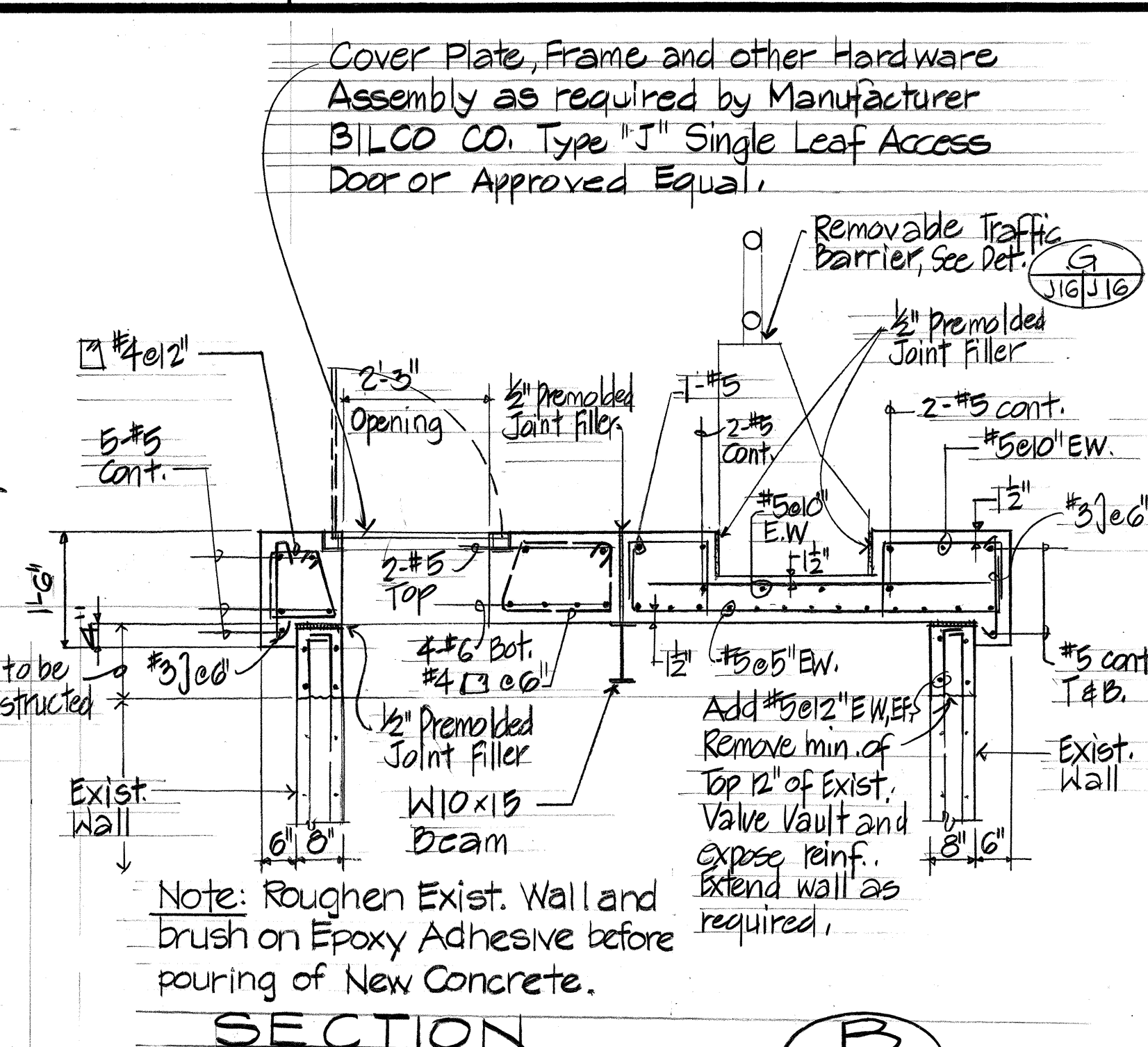
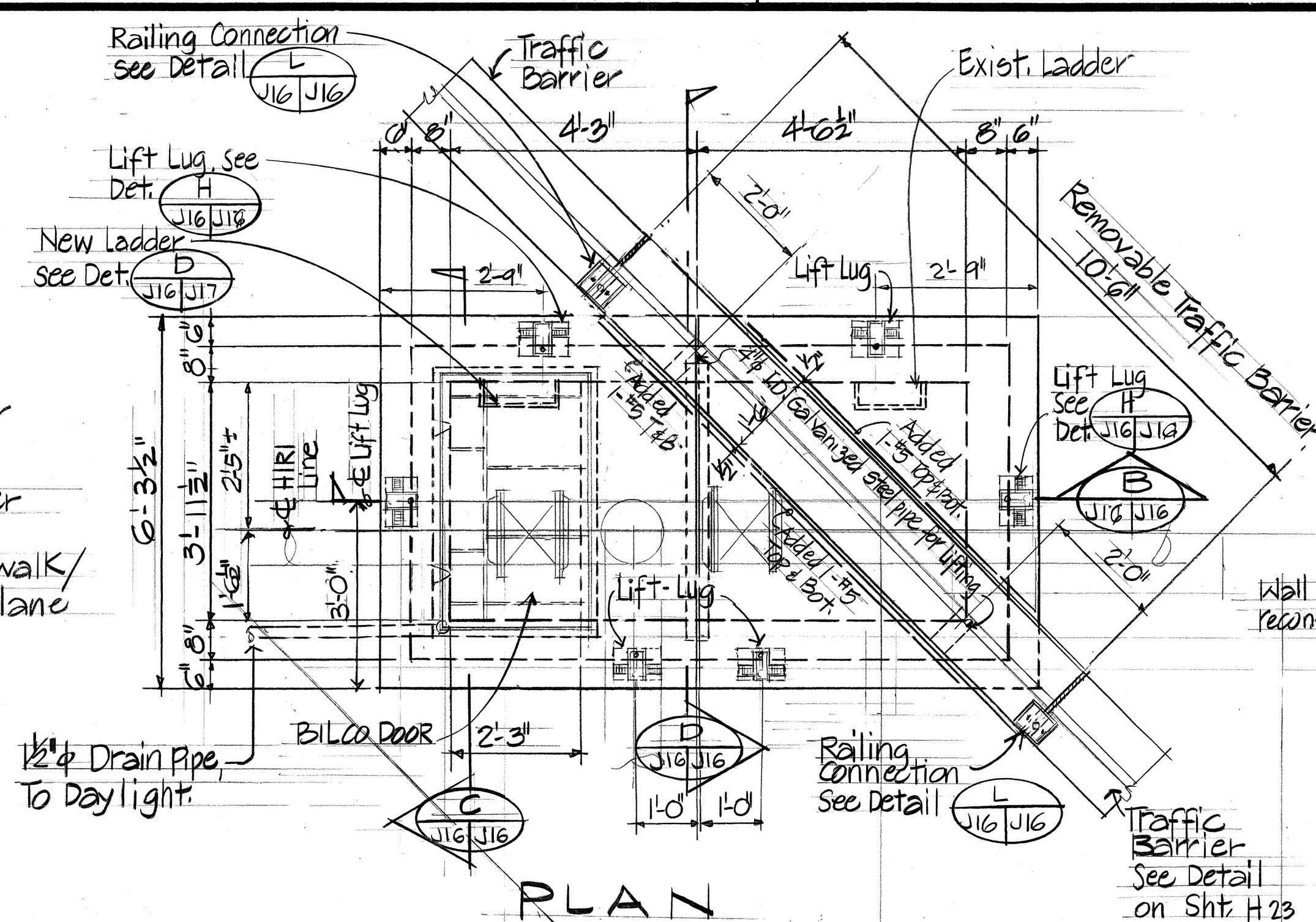
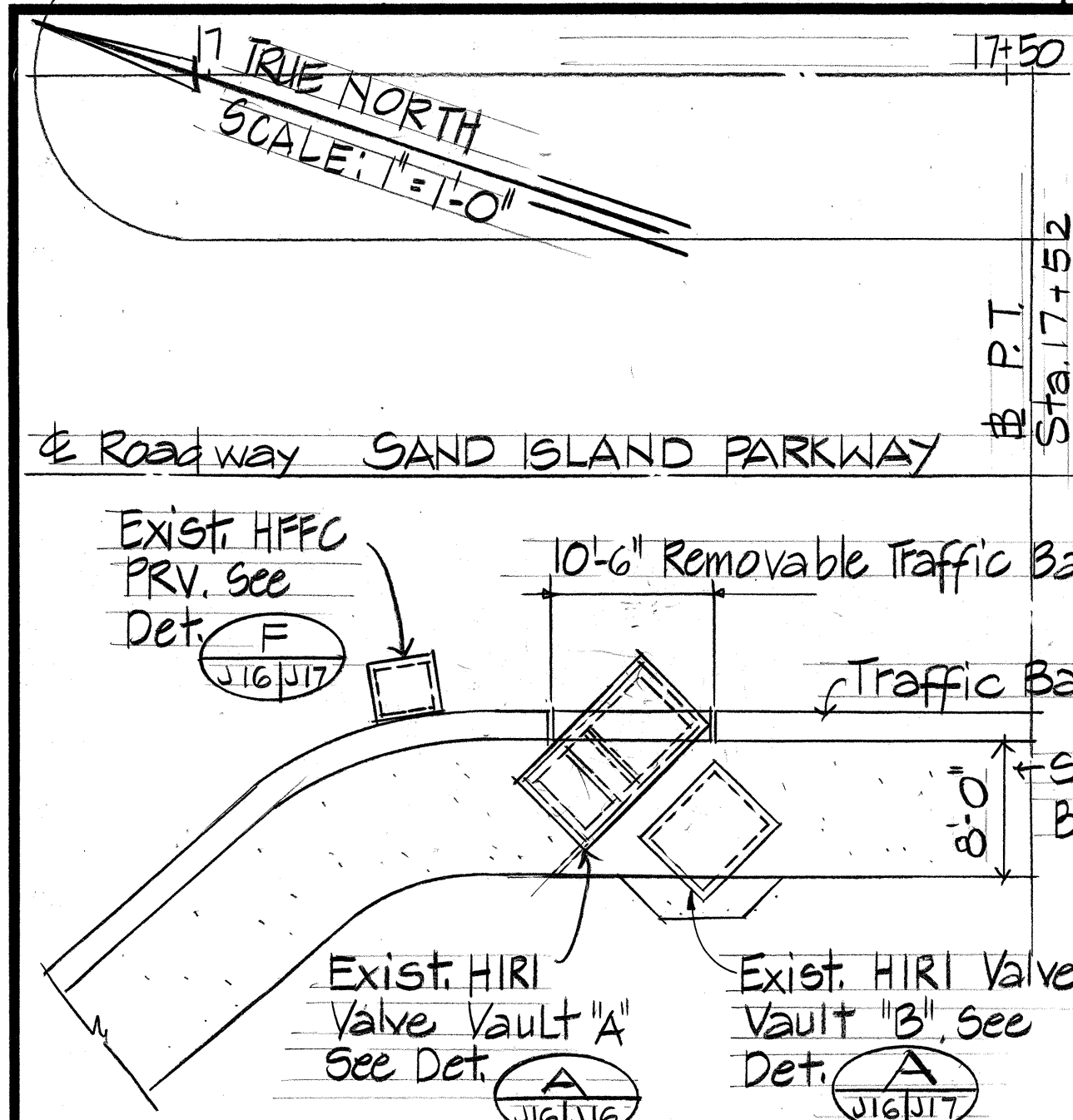


DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIRI TERMINAL MODIFICATION SAND ISLAND ROAD WIDENING 2ND BRIDGE AND APPROACHES FEDERAL AID PROJECT NO. F-064-(12) SCALE: AS NOTED DATE: JUN 1986 SHEET NO. J15 OF 17 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-064-1(2)	1987	43	151

Notes:

- Contractor to verify existing Valve Vault dimensions before proceeding with work.
- Frame and Cover (Type "J" or "JD" as noted) of Vault shall be BILCO CO. or Approved Equal.
- Contractor shall take Adequate Measures to protect existing Valves, Pipes and other Equipment Housed in Vault during all Phases of Construction. The Contractor shall coordinate all Phases of Work with HFFC or HIRI to minimize Conflicts to Operations.
- Contractor shall remove all debris resulting from concrete work and installation of covers from bottom of Valve Vaults.
- Following installation and concrete set-period, the Contractor will test-lift barrier and Vault Covers to the satisfaction of HIRI representative.



DATE	10/1/85
DESIGNED BY	W.W. Mills
CHECKED BY	Myron Okuma
NOTED BY	
ORIGINAL PLAN	
TRACED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
TRACED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	

APPROVED:
W.W. Mills
HAWAIIAN INDEPENDENT REFINERY, INC.

DATE: 9/18/85
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIRI VALVE VAULT "A"
SAND ISLAND ROAD WIDENING
2ND BRIDGE AND APPROACHES
SCALE: AS NOTED. DATE: JUN, 1986
SHEET NO. J16 OF 17 SHEETS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Myron Okuma

