

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	GD-65-335	1968	6	12

GENERAL NOTES

DESIGN SPECIFICATIONS: AASHO
1. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
(9TH EDITION) EXCEPT AS NOTED BELOW.

2. DESIGN LOADS:
LIVE LOAD - 60 PSF
WIND PRESSURE - 50 PSF
EARTHQUAKE - ZONE 1
FOUNDATION - 2.5 KSF

DESIGN STRESSES: (ACI STANDARD)
1. REINFORCED CONCRETE
 $f_c = 1350$ PSI.
 $n = 9.2$
 $f_s = 20,000$ PSI TENSION
SEE AASHO SPECIFICATIONS EXCEPT AS OTHERWISE NOTED AND SEE SPECIAL PROVISIONS.

2. PRESTRESSED GIRDERS
 $f_c' = 5500$ PSI AT 28 DAYS
 $f_c' = 4000$ PSI AT TRANSFER
 $\frac{1}{8}" \phi$ - 270K, 7 WIRE STRANDS
TENSIONING LOAD = 28,910 LBS. PER STRAND
DESIGN LOAD = 23,550 LBS. PER STRAND
 $\frac{3}{8}" \phi$ - 270K, 7 WIRE STRANDS
TENSIONING LOAD = 21,700 LBS. PER STRAND
DESIGN LOAD = 17,615 LBS. PER STRAND
GIRDERS SHALL NOT BE ERECTED UNTIL 7 DAYS AFTER THE STRANDS ARE CUT.

MATERIALS:
1. ALL CONCRETE SHALL BE CLASS A-1 EXCEPT AS OTHERWISE NOTED ON PLANS. FOR CONCRETE FOR PRESTRESSED GIRDERS SEE SPECIAL PROVISIONS AND AS NOTED ABOVE. ALL CEMENT SHALL BE TYPE I.

2. SEE SPECIAL PROVISIONS FOR ADMIXTURE IN CONCRETE.

LOADING COMBINATIONS
1. RAMP GROUP I
2. PIERS GROUP II
3. FOUNDATION GROUP II

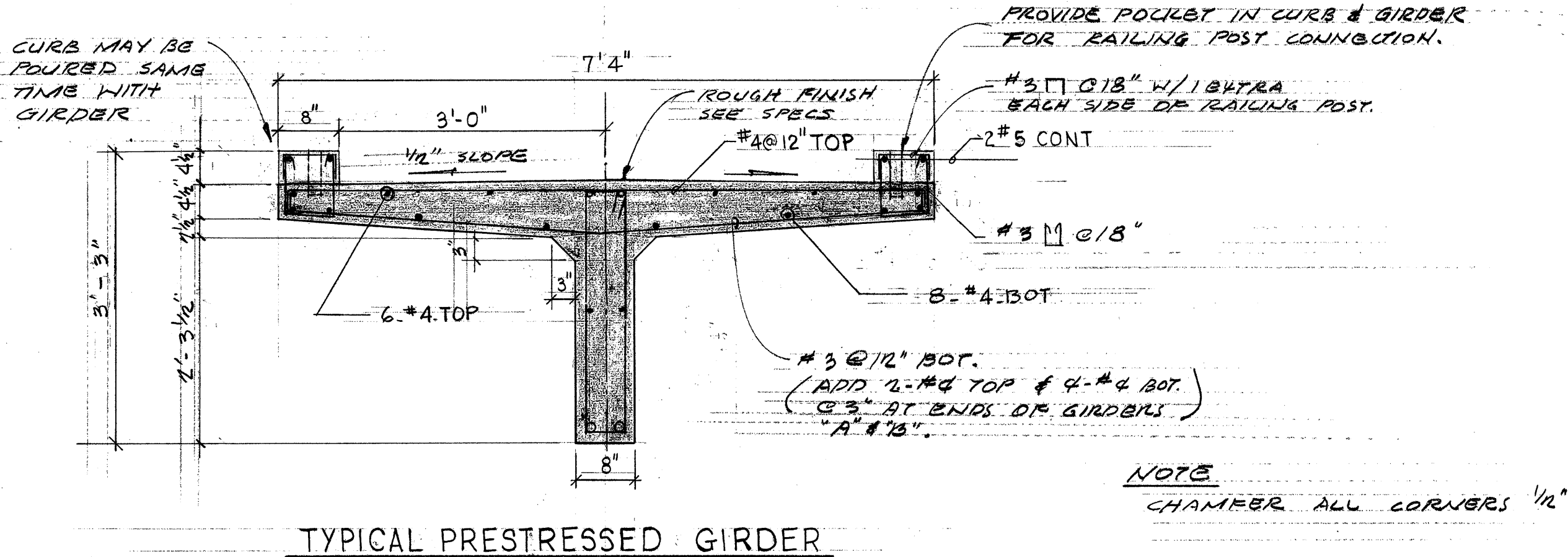
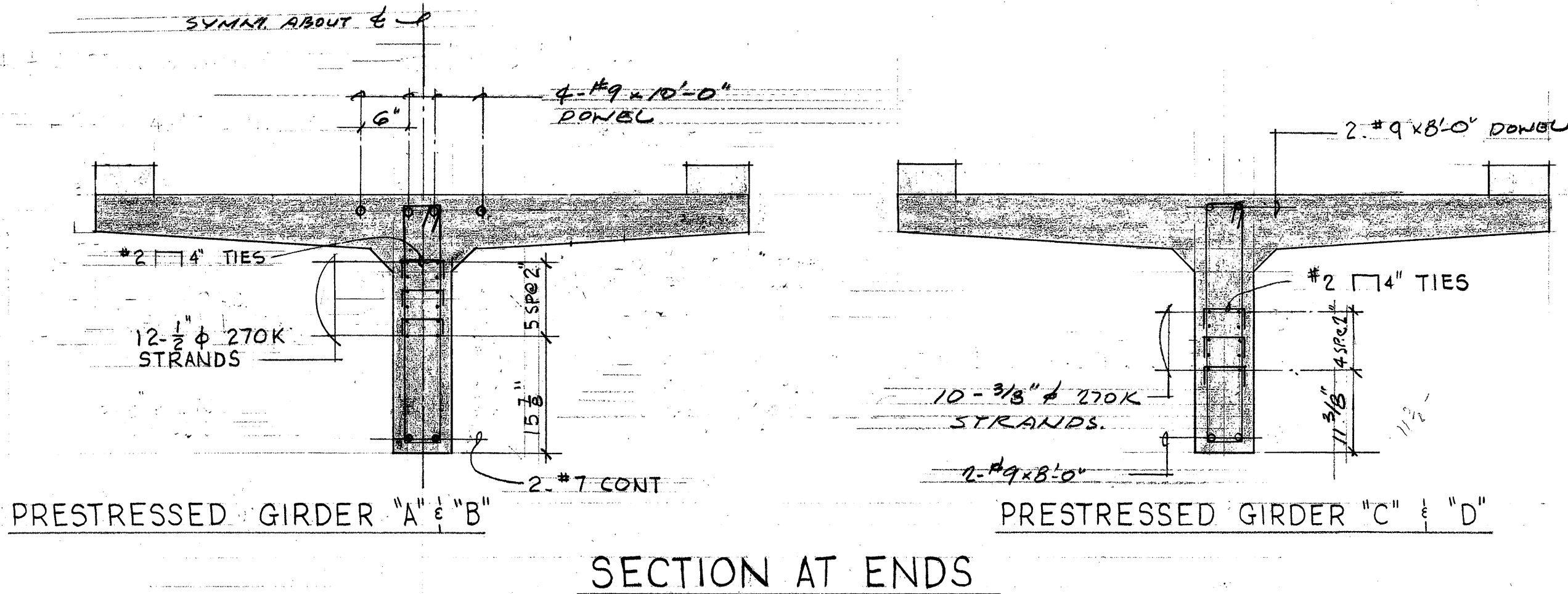
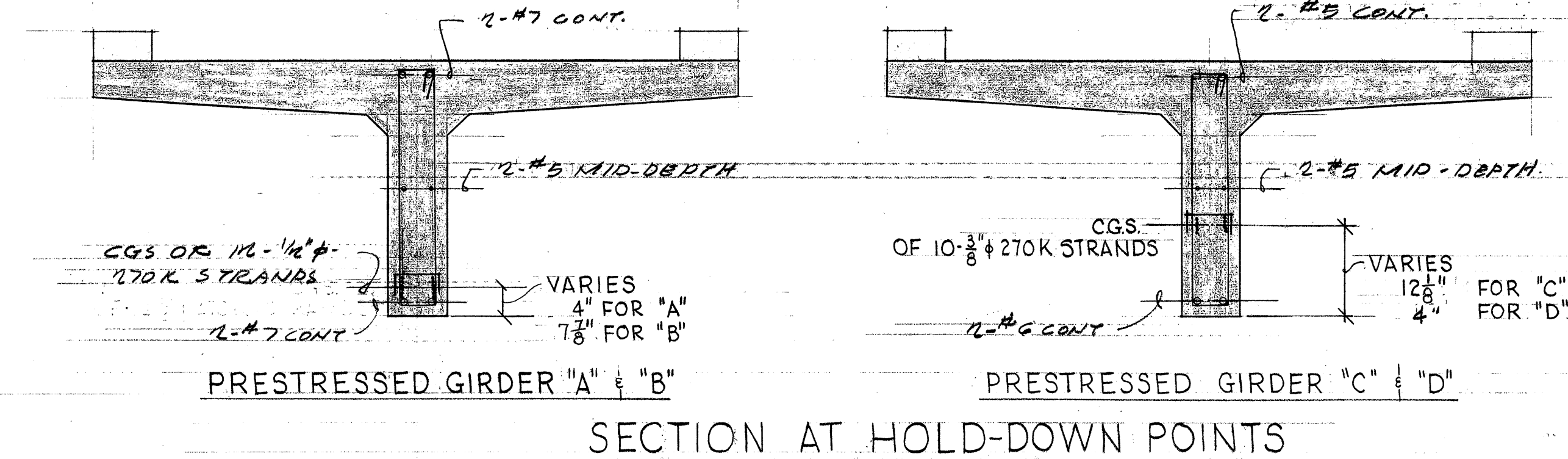
CONCRETE COVER
1. TOP OF SLAB - $1\frac{1}{2}"$
2. BOT. OF SLAB - $1"$
3. STIRRUP & TIES OF T-BEAMS - $1\frac{1}{2}"$
4. BOT. OF FOOTINGS - $3"$
5. OTHERS - $2"$

CONSTRUCTION METHODS
1. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

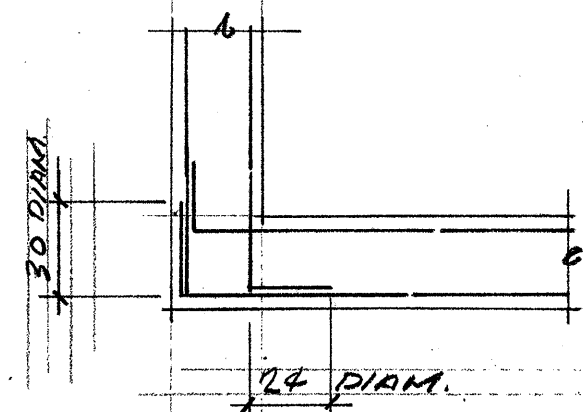
2. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED GROUND, A MINIMUM OF $2\frac{1}{2}"$ BELOW EXISTING GROUND AND POURED TO NEAT LINES. IN CASE OF OVER EXCAVATION, SPACE BETWEEN FOOTING AND GROUND SHALL BE FILLED WITH CONCRETE AT THE CONTRACTOR'S EXPENSE. THE FILL CONCRETE SHALL HAVE A MINIMUM QUALITY OF CLASS D-1.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND THE LOCATION OF ALL EXISTING UTILITY LINES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN WRITING BEFORE COMMENCING WORK.

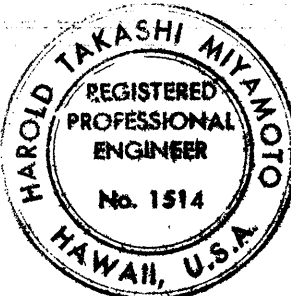
4. NO PRESTRESSED GIRDERS SHALL BE PLACED ON THE POURED-IN-PLACE SUPPORTS FOR 15 DAYS OR UNTIL THE CONCRETE HAS GAINED A STRENGTH OF 3000 PSI, WHICHEVER OCCURS LATER.



PRESTRESSED CONCRETE GIRDER DETAILS $\frac{1}{6}$
SCALE: $\frac{3}{4} = 1'-0"$



TYP. WALL & CURB HORIZ.
REINF. DETAIL



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

Harold S. Miyamoto

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEDESTRIAN OVERPASS

PROJECT No. GD 65-335

DETAILS AND GENERAL NOTES

LIKELIKE HIGHWAY AT ANOI RD, KANEHOE, OAHU

Scale: As Noted

Sept. 27, 1968

SHEET No. 6 OF 12 SHEETS