

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	78A-01-02M	2002	41	92

GENERAL NOTES

A. MATERIALS

UNLESS OTHERWISE NOTED

1. CONCRETE SHALL BE CLASS A OR BETTER.
2. REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60.
3. STRUCTURAL SHAPES SHALL CONFORM TO THE FOLLOWING ASTM AND GRADE:
W-SHAPES: ASTM A992
ANGLES, PLATESASTM A36
4. ALL BOLTS AND NUTS SHALL CONFORM TO AASHTO M164, HOT-DIPPED GALVANIZED.
5. ALL STRUCTURAL STEEL AND BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.

B. REINFORCEMENT

1. THE MINIMUM COVERING MEASURED FROM THE SURFACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR SHALL BE AS FOLLOWS, EXCEPT AS OTHERWISE NOTED:
a) LIGHTPOLE FOUNDATIONS, ETC. POURED AGAINST EARTH = 3"
b) LIGHTPOLE FOUNDATIONS, ETC., POURED AGAINST FORMS AND LATER REMOVED = 2"
2. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITIONS OF CRSI'S "PLACING REINFORCING BARS" AND "MANUAL OF STANDARD PRACTICE" AND THE "ACI DETAILING MANUAL" UNLESS OTHERWISE NOTED.
3. MINIMUM SPACING BETWEEN PARALLEL BARS SHALL BE 2 1/2 TIMES THE DIAMETER OF BARS (FOR NON BUNDLED BARS), BUT IN NO CASE SHALL THE CLEAR DISTANCE BETWEEN THE BARS BE LESS THAN 1 1/2 TIMES THE MAXIMUM SIZE OF THE COARSE AGGREGATE.
4. ALL DIMENSIONS RELATING TO REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE NOTED.

C. DRILLED SHAFT

1. SEE SPECIFICATIONS.

D. CONSTRUCTION METHODS

1. SEE CURRENT EDITION OF HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SPECIAL PROVISIONS.

E. GENERAL

1. ALL ITEMS NOTED INCIDENTAL WILL NOT BE PAID FOR SEPARATELY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITY LINES AND NOTIFY THE RESPECTIVE OWNERS BEFORE COMMENCING WITH WORK.
3. EXCEPT AS OTHERWISE NOTED ON DRAWINGS, ALL EXTERIOR CORNERS AND RE-ENTRANT ANGLES 90° OR LESS IN CONCRETE WORK SHALL BE CHAMFERED 3/4" X 3/4".
4. FOR CONCRETE FINISH SEE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
5. STANDARD DETAIL DRAWINGS REFER TO ALL STRUCTURES IN GENERAL EXCEPT FOR MODIFICATIONS AS MAY BE REQUIRED FOR SPECIAL CONDITIONS. FOR SUCH MODIFICATIONS REFER TO CORRESPONDING DETAILED DRAWINGS.

F. DESIGN DATA

1. WIND: 105 MPH DESIGN WIND SPEED.

2. REFERENCES:

A. AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (1994).

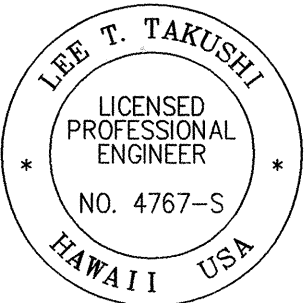
B. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

3. FOUNDATION:

ASSUMED ALLOWABLE BEARING PRESSURE = 1,500 PSF
(SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL)

LATERAL BEARING PRESSURE = 150 PSF/FT OF DEPTH BELOW GRADE

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Lee T. Takushi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES

MOANALUA FREEWAY LIGHTING IMPROVEMENTS
Kamehameha Hwy to H1 Halawa Interchange
Project No. 78A-01-02M
Oahu, Hawaii
Scale: As Noted Date: May 2002

SHEET No. 5-1 OF 6 SHEETS