

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 64S-1	167

SIGNS AND MARKING NOTES:

- All traffic sign and pavement marking installations shall be done in accordance with "Manual on Uniform Traffic Control Devices for Streets and Highways," 2009 Edition, as amended, the latest specifications from the Traffic Review Branch, Department of Planning and Permitting, and as shown on the plans.
- Contractor shall notify and coordinate work with the Civil Engineering Branch, Department of Planning and Permitting, one (1) week in advance of commencing work at 768-8084.
- Contractor shall submit material brochures for all signs and paint materials to the Civil Engineering Branch, Department of Planning and Permitting.
- The signing and/or striping Contractor shall keep one (1) set of Approved Plans at the project site at all times during construction work.
- Contractor shall paint temporary guidelines and outline of arrows, legends and crosswalk with two inches (2") wide brushed line on the day the roadway is opened to traffic. These markings must be approved by the inspector from the Civil Engineering Branch, Department of Planning and Permitting.
- Contractor shall notify the Civil Engineering Branch, Department of Planning and Permitting at 768-8084, three (3) days in advance of final inspection.
- Contractor shall meet with the Inspector from the Civil Engineering Branch, Department of Planning and Permitting during the Final Inspection.
- Within ten (10) days following notification of award of contract, the Contractor shall submit to the Department of Planning and Permitting (Phone: 768-8084) for approval, a list of any signing and pavement marking material which he proposes to install. The list shall be complete as to the name of manufacturer, catalog number, and shall be supplemented with material brochures.
- Upon final inspection of the project, the Contractor shall submit a letter of certification for all Traffic Signing and Pavement Marking Materials installed
- Signs shall be attached to brackets with 5/16" Zinc Plated Steel Bolts, Nuts and Washers. Signs 48" wide or larger than 10 Sq. Ft. in area shall be mounted on two - 2" Galv. Pipe post. The sign shall be installed with at least one (1) foot clearance from the sign edge to the curb face.
- All Traffic signs shall be reflectorized.
- Raised pavement markers shall be installed in accordance with the Department of Planning and Permitting Standards.
- Location of "Stop" sign:
 - Install "Stop" sign at curb tangent point.
 - Install "Stop" sign on metal street light standard if a standard is located within 10 feet of curb return.
 - Install "Stop" sign in front of utility pole if a pole is located within 10 feet of curb return.

- Pavement work and symbol markings shall be in accordance with the Department of Planning and Permitting Standards.
 - The Contractor shall use thermoplastic material, approved by the Civil Engineering Branch, Department of Planning and Permitting, for all crosswalks, stop bars, pavement arrows, center lines, lane lines, arc lines, channelized traffic island and legends.
- TRAFFIC NOTES FOR WORK ON CITY & COUNTY STREETS:**
- A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction Traffic Control Plans approved by the Department of Transportation Services and/or the Department of Planning and Permitting must be provided when applying for the permit.
 - The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules Governing the use of Traffic Control Devices at Work Sites on or adjacent to Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highways Administration's "Manual on Uniform Traffic Control Devices for Street and Highways, Part VI - Traffic Control Devices for Street and Highway Construction and Maintenance Operations."
 - Work on an city street area may be performed only between the hours of 8:30 A.M. to 3:30 P.M., Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
 - During working hours, the Contractor shall provide for through traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to Traffic.

As required by the Department of Transportation Services, The Contractor shall provide off-duty police officers to control the flow of traffic.
 - Where pedestrian walkways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
 - Driveways shall be kept open unless the owners of the property using these rights-of-way are otherwise provided fro satisfactorily.
 - Contractor shall reference to the approval of the Department of Transportation Services and the Department of Planning and Permitting, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic sign, posts and pavement markings disturbed by his activities.
 - The Contractor shall notify the Department of Planning and Permitting at 768-8084 one (1) week prior to any work to be done on signs, post and pavement markings.
 - No equipment shall be stored within street rights-of-way except at locations designated in writing and approved by the Department of Transportation Services.

11. (Specify name of individual or company) shall ensure that the Contractor installs the construction traffic control devices in accordance with the MUTCD and the Hawaii Administration Rules as specified in traffic not #2.

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

FOR USE WITHIN CITY R.O.W. ONLY

2	4/07/20	ADDED CITY APPROVAL BLOCK
1	3/24/20	ADDED NEW PLAN SHEET

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
GENERAL NOTES
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
PROJECT NO. 901A-01-19
Scale: Not to Scale Date: Feb., 2020
SHEET No. 713A OF 13 SHEETS

2 APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP Date
(For Work within Proposed City R.O.W.)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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GENERAL NOTES FOR TRAFFIC CONTROL PLAN:

1. The Permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2. Cones or delineators shall be extended to point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered.
5. flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the Traffic Control Plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have message on both faces).
10. Lane closure shall be limited only to the extent of accomplishing each day's work. As soon as each day's work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
11. Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
12. Cones and delineators shall be spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.
13. Driveways shall be kept open unless the owners of the property using the driveway are otherwise provided for satisfactorily. Further, the permittee shall control traffic going into and out of driveways.
14. buffer and taper area on approach to any work area shall be kept clear of vehicles and equipment.
15. A high-level warning device (flag tree) shall be installed on approach to all work areas.
16. "No Parking" signs shall be posted within any work area and for the buffer and taper areas approaching the work area.
17. Traffic Control Plans are approved for work on any city street area only between the hours of 08:30 A.M. and 03:30 P.M. (Monday - Friday).

MECHANICAL/ELECTRICAL DIVISION NOTES:

1. The Contractor shall notify the joint pole committee two (2) weeks in advance of any relocation of utility pole(s) that may be necessary.
2. The Contractor shall notify the Mechanical/Electrical Division Department of Design and Construction, three (3) working days prior to commencing work on the street lighting system. (Phone: 768-8431)
3. The street lighting system shall be kept operational during construction. Any relocation required shall be approved by the Mechanical/Electrical Division, Department of Design and Construction, and paid for by the Contractor.
4. The locations of the existing underground street light facilities shown on the plans are from existing plans and are approximate only. The Contractor shall exercise caution when construction crosses or is in close proximity to the existing street light facilities. The Contractor shall be responsible for any damages to the existing street lighting facilities. Any and all damages to these facilities shall be repaired by the Contractor at his cost in accordance with the requirements of the City and County of Honolulu.
5. The Contractor shall be responsible for any damages to the city's existing communications fiber optic cable system. any and all damages to these facilities shall be repaired by the Contractor at his cost in accordance with the requirements of the City and County of Honolulu.

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NOTE BOOK	DRAWN BY	
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	CHECKED BY	

FOR USE WITHIN CITY R.O.W. ONLY

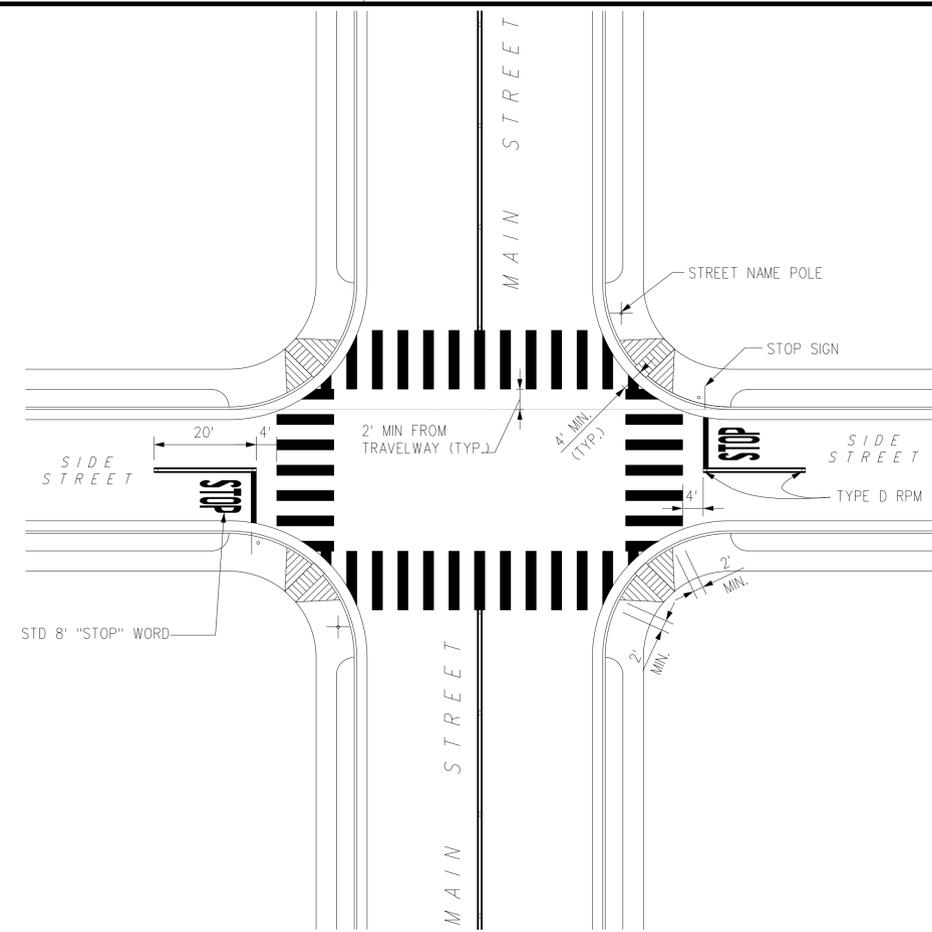
2	4/07/20	ADDED CITY APPROVAL BLOCK
1	3/24/20	ADDED NEW PLAN SHEET
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
GENERAL NOTES
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
PROJECT NO. 901A-01-19
Scale: Not to Scale Date: Feb., 2020

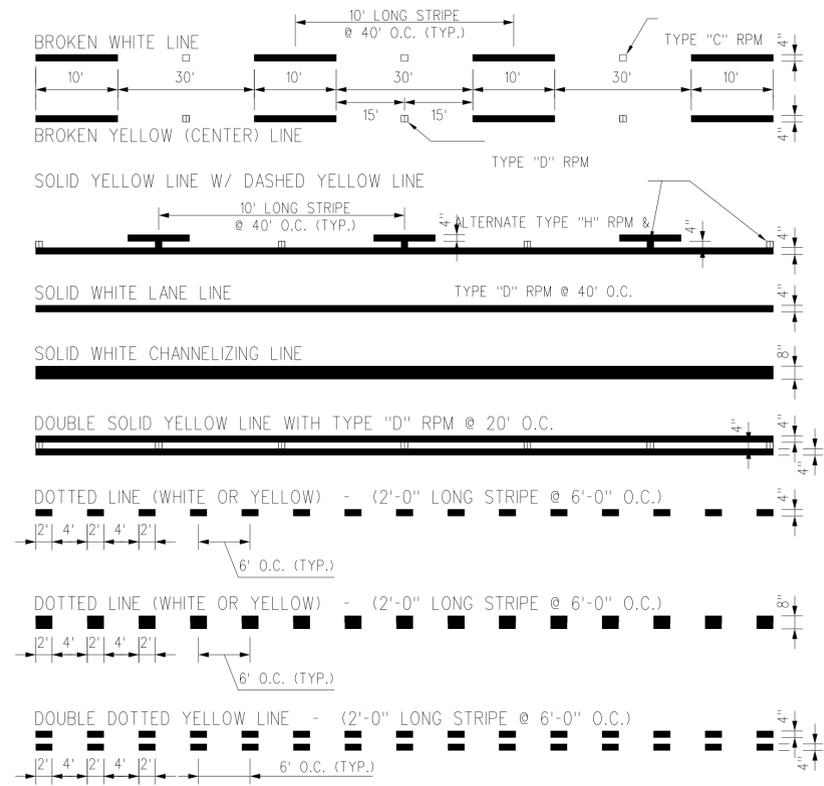
 APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP Date
(For Work within Proposed City R.O.W.)

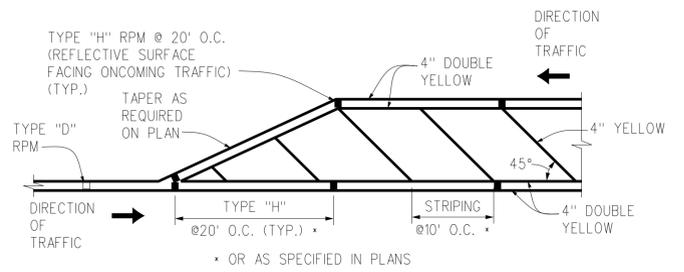
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 64S-3	167



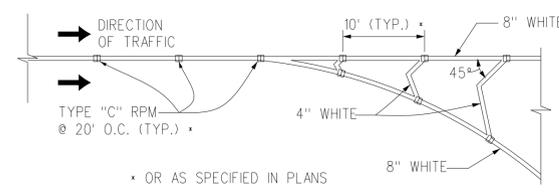
TYPICAL INTERSECTION SIGNING AND PAVEMENT MARKINGS WITH CROSSWALKS
NOT TO SCALE



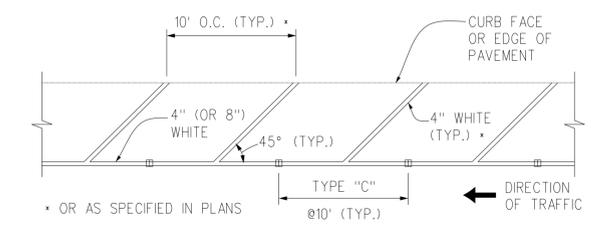
TYPICAL PAVEMENT MARKINGS - TYPES OF LONGITUDINAL LINES
NOT TO SCALE



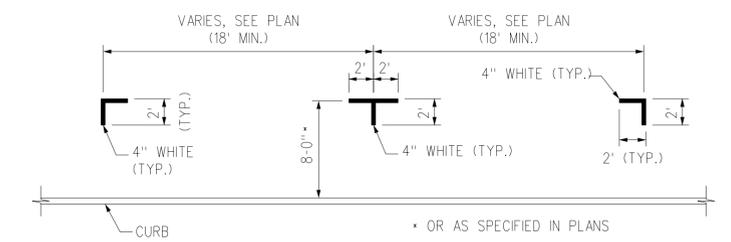
TRANSVERSE MEDIAN STRIPING DETAIL
NOT TO SCALE



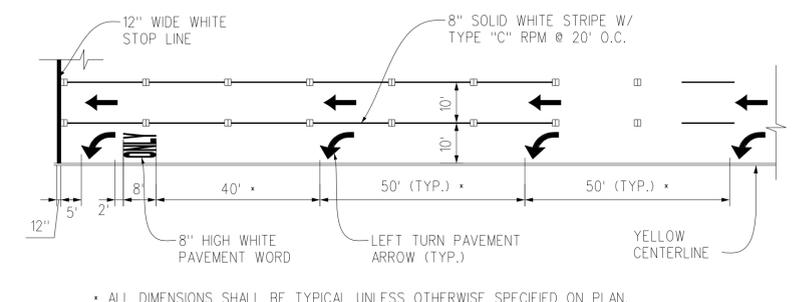
CHANNELIZING ISLAND STRIPING DETAIL
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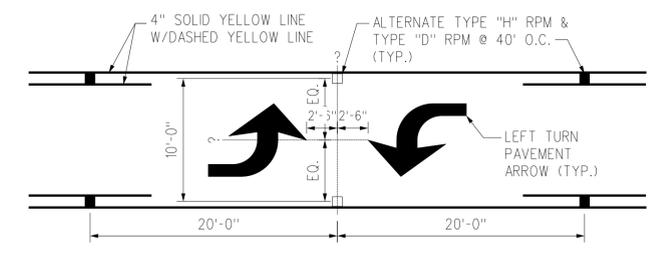
TRANSVERSE SHOULDER STRIPING DETAIL
NOT TO SCALE



PARKING STALL PAVEMENT MARKINGS
NOT TO SCALE



TYPICAL TURN LANE STRIPING
NOT TO SCALE



TWO-WAY LEFT TURN PAVEMENT ARROWS
NOT TO SCALE

**FOR USE WITHIN
CITY R.O.W. ONLY**

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP
(For Work within Proposed City R.O.W.)

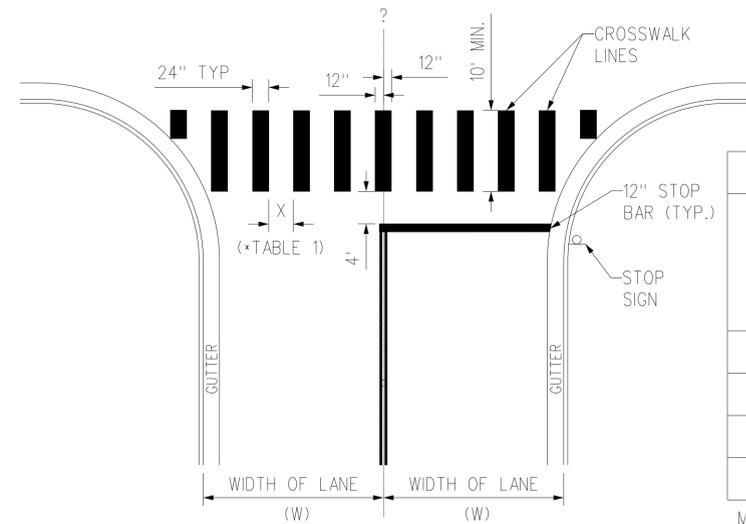
Date

DATE	REVISION
4/07/20	ADDED CITY APPROVAL BLOCK
3/24/20	ADDED NEW PLAN SHEET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
PAVEMENT MARKING NOTES AND DETAILS
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
PROJECT NO. 901A-01-19
Scale: Not to Scale Date: Feb., 2020
SHEET No. 713C OF 13 SHEETS

ORIGINAL PLAN SURVEY PLOTTED BY DATE
DRAWN BY X
TRACED BY
DESIGNED BY Z
CHECKED BY
APPROVED BY

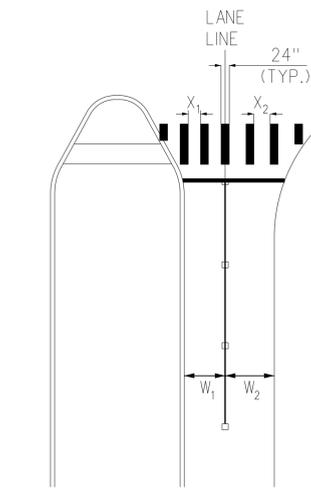
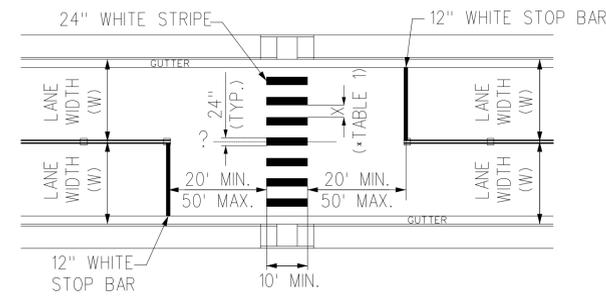
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 64S-4	167



*TABLE 1

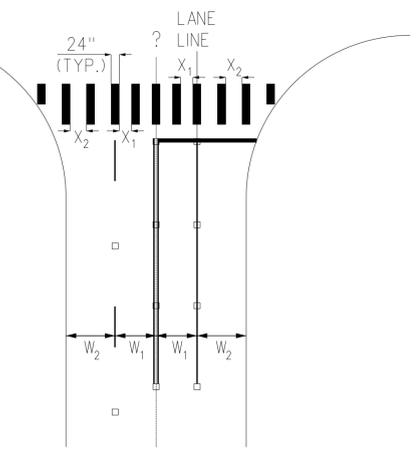
LANE WIDTH (W)	X (DISTANCE BETWEEN CROSSWALK BARS)
<12'	3'
12'-14'	4'
15'-17'	5'
>17'	3'

MAX X = 5'



*TABLE 2

W ₁
W ₂
X ₁ = WIDTH OF LANE 1
X ₂ = WIDTH OF SPACING DISTANCE
BECOMES SPACING DISTANCE



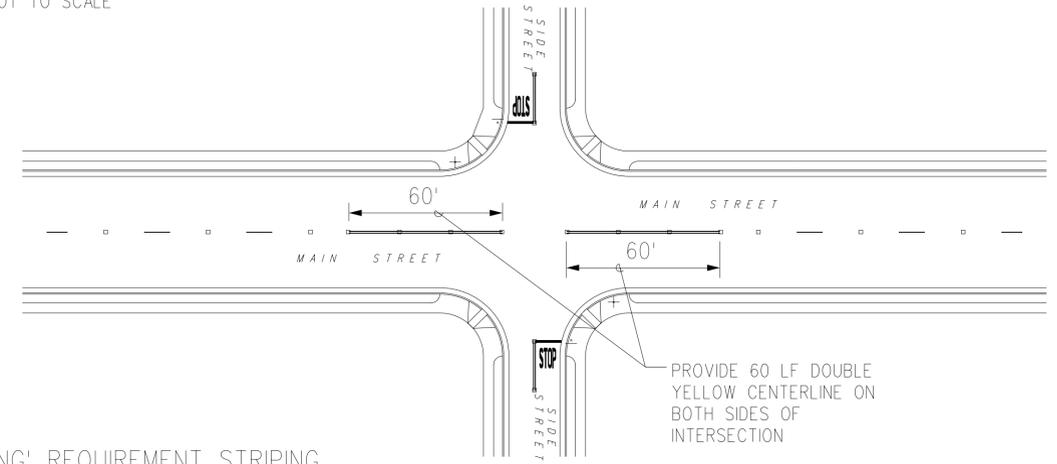
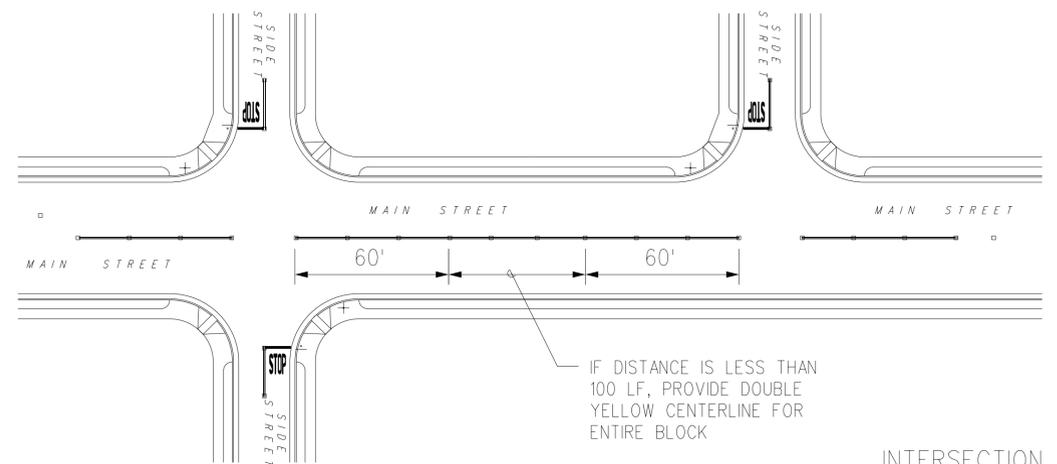
CONTROLLED INTERSECTION CROSSWALK DETAIL

MID-BLOCK CROSSWALK DETAIL

TYPICAL MEDIAN MULTILANE

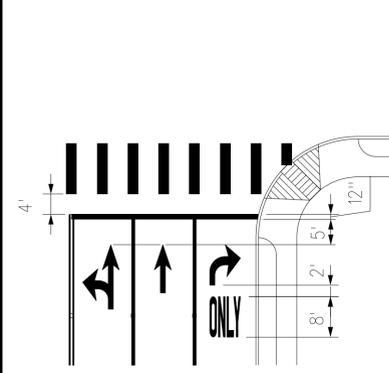
NON-MEDIAN MULTILANE

CROSSWALK STRIPING DETAILS
NOT TO SCALE

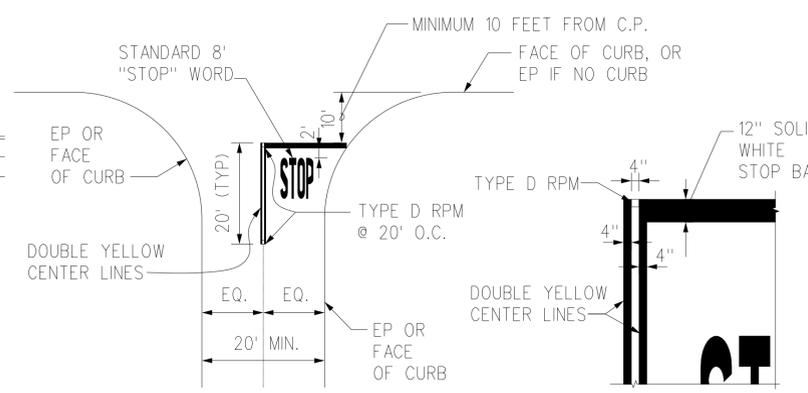


INTERSECTION 'NO PASSING' REQUIREMENT STRIPING
NOT TO SCALE

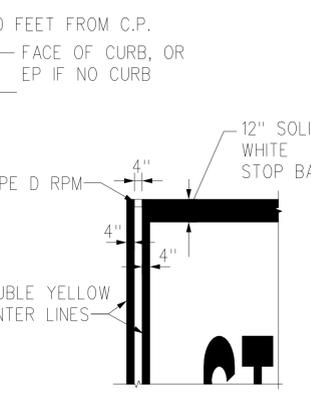
FOR USE WITHIN CITY R.O.W. ONLY



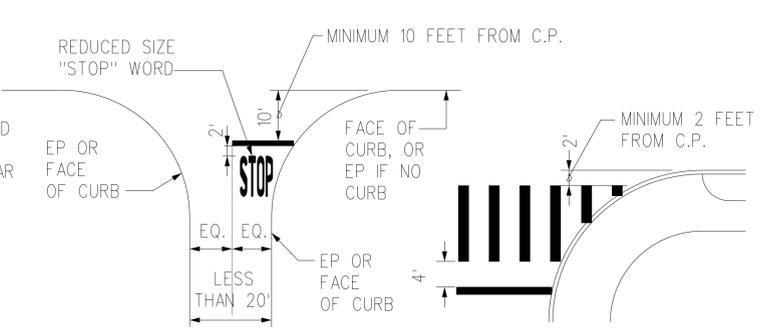
TYPICAL LANE ARROW MARKINGS



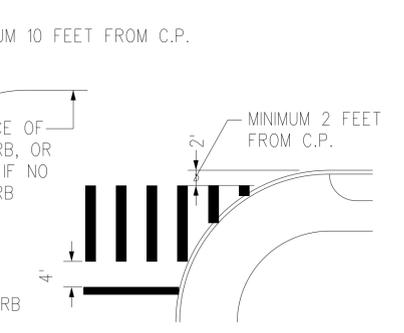
TYPICAL INTERSECTION PAVEMENT MARKINGS (MIN 20' WIDTH)



CENTERLINE & STOP BAR



TYPICAL INTERSECTION PAVEMENT MARKINGS (LESS THAN 20' WIDTH)



STANDARD CROSSWALK WITH STOP BAR AT LOCATION WITH NO CURB RAMP

TYPICAL STOP BAR DETAILS
NOT TO SCALE

APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP
(For Work within Proposed City R.O.W.)

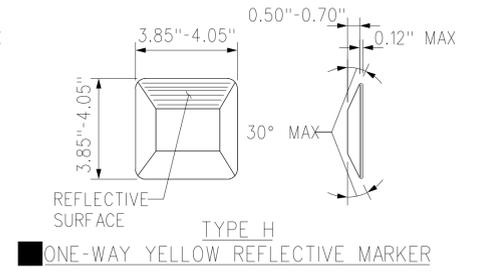
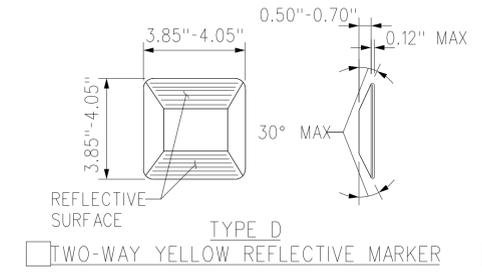
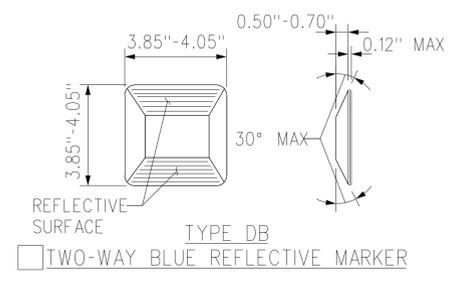
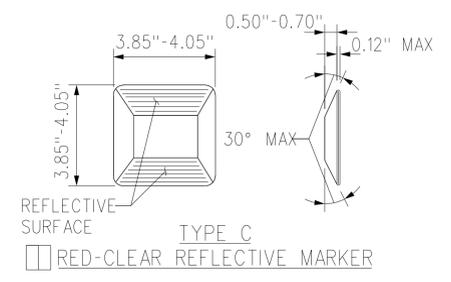
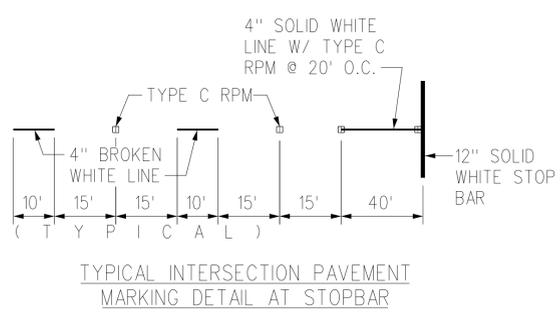
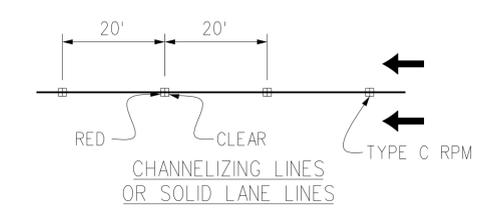
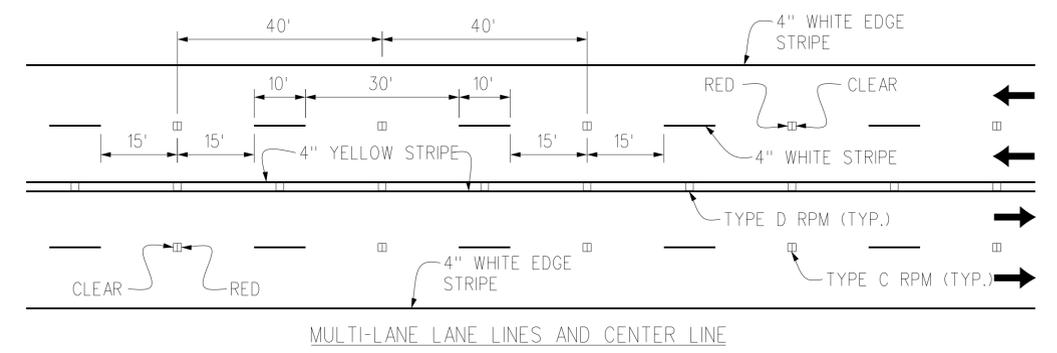
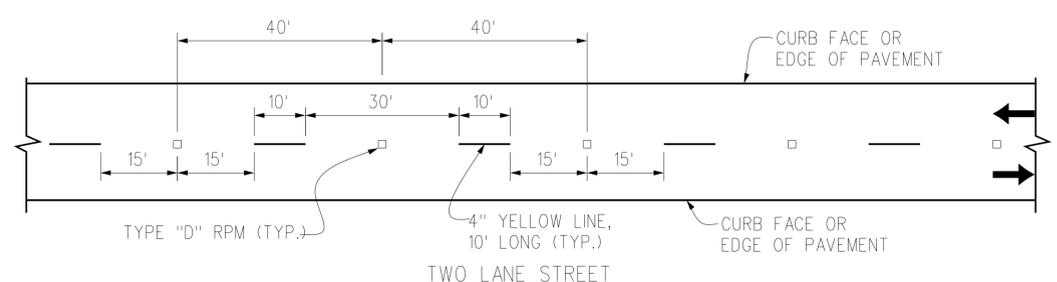
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ORIGINAL PLAN
NOTE BOOK
DATE: 1/15/20
DRAWN BY: [Signature]
DESIGNED BY: [Signature]
CHECKED BY: [Signature]

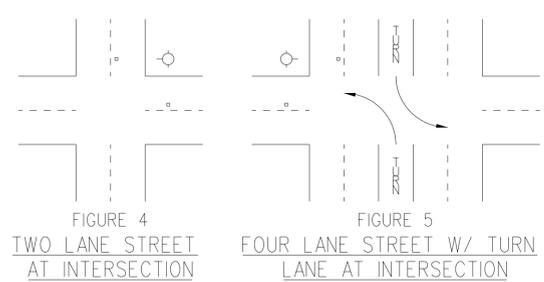
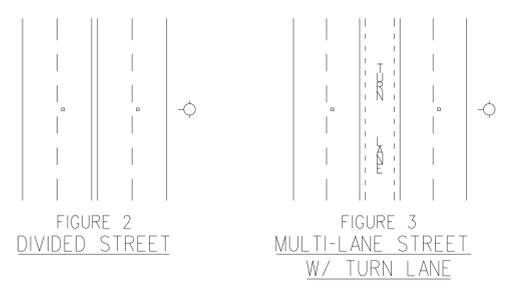
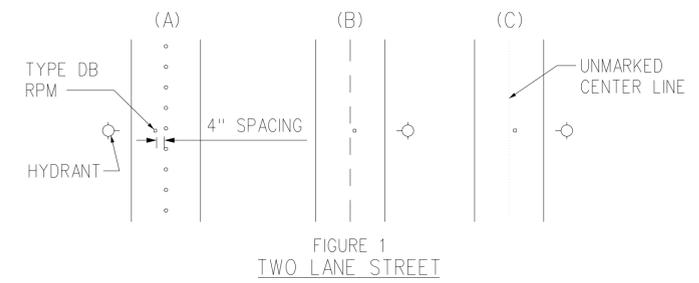
DATE	REVISION
4/07/20	ADDED CITY APPROVAL BLOCK
3/24/20	ADDED NEW PLAN SHEET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
PAVEMENT MARKING DETAILS
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
PROJECT NO. 901A-01-19
Scale: Not to Scale Date: Feb, 2020
SHEET No. T13D OF 13 SHEETS

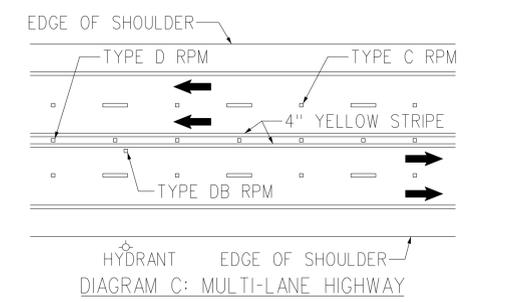
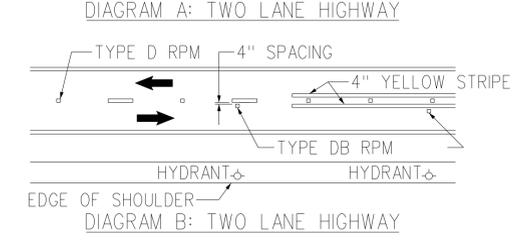
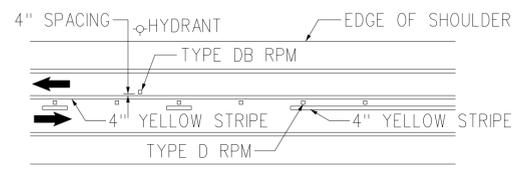
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 64S-5	167



TYPICAL INSTALLATION DETAILS OF RAISED PAVEMENT MARKERS
NOT TO SCALE



HYDRANT MARKER LOCATION FOR STREETS
NOT TO SCALE



HYDRANT MARKER LOCATION FOR HIGHWAYS
NOT TO SCALE

FOR USE WITHIN CITY R.O.W. ONLY

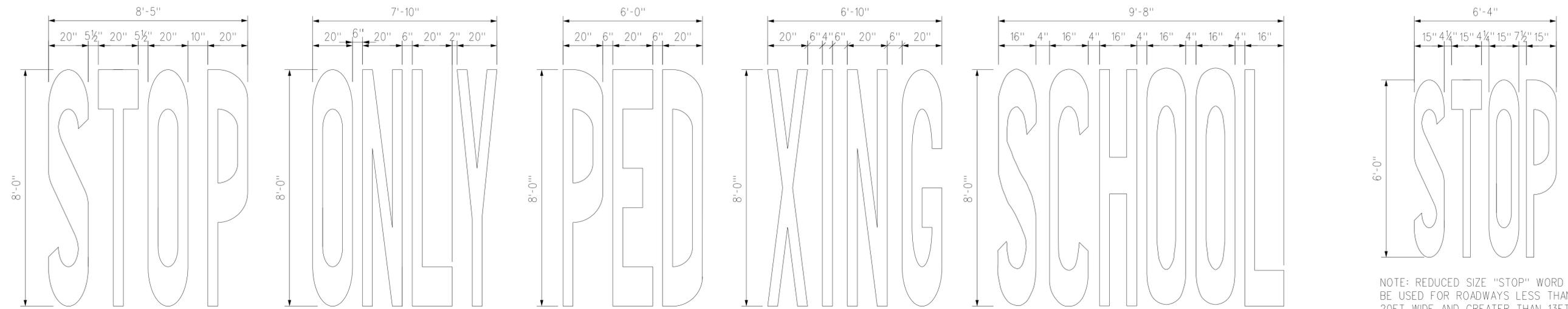
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
PAVEMENT MARKING DETAILS
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Roosevelt Avenue to Farrington Highway
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2 APPROVED: _____ Date _____
CHIEF, TRAFFIC REVIEW BRANCH, DPP
(For Work within Proposed City R.O.W.)

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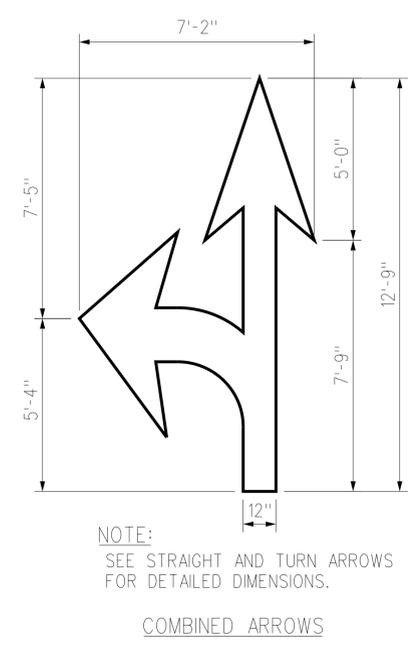
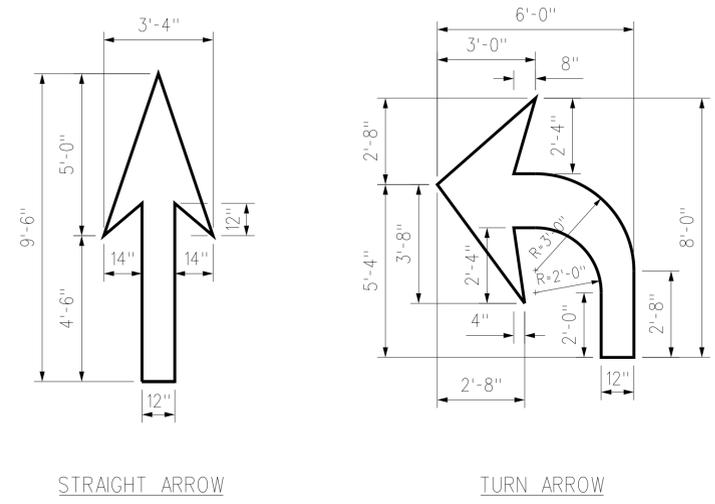


NOTE: PAVEMENT ALPHABETS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION PUBLICATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE CITY & COUNTY OF HONOLULU PUBLICATION, "TRAFFIC STANDARDS MANUAL, DEPARTMENT OF TRANSPORTATION SERVICES" AND ITS AMENDMENTS.

NOTE: REDUCED SIZE "STOP" WORD SHALL BE USED FOR ROADWAYS LESS THAN 20FT WIDE AND GREATER THAN 13FT WIDE.

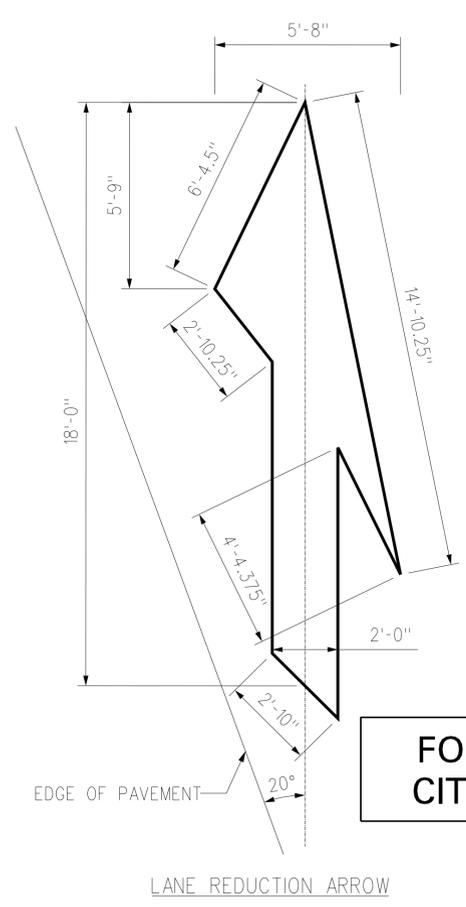
REDUCED SIZE "STOP" WORD NOT TO SCALE

STANDARD 8'-0" PAVEMENT WORDS
NOT TO SCALE



TYPICAL PAVEMENT ARROWS
NOT TO SCALE

NOTE: SEE STRAIGHT AND TURN ARROWS FOR DETAILED DIMENSIONS.

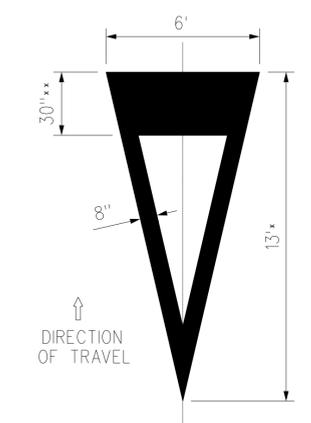


LANE REDUCTION ARROW

APPROVED:

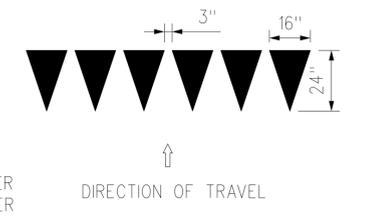
CHIEF, TRAFFIC REVIEW BRANCH, DPP
(For Work within Proposed City R.O.W.)

Date



* 20' FOR SPEED LIMIT 45 MPH OR GREATER
** 36" FOR SPEED LIMIT 45 MPH OR GREATER

YIELD AHEAD TRIANGLE SYMBOL



YIELD LINE LAYOUT

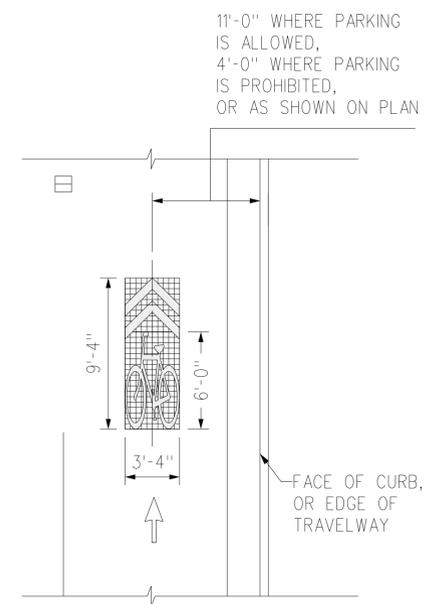
TYPICAL YIELD LINE/ARROW DETAILS
NOT TO SCALE

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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CITY AND COUNTY OF HONOLULU
PAVEMENT MARKING DETAILS
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
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SHEET No. T13F OF 13 SHEETS

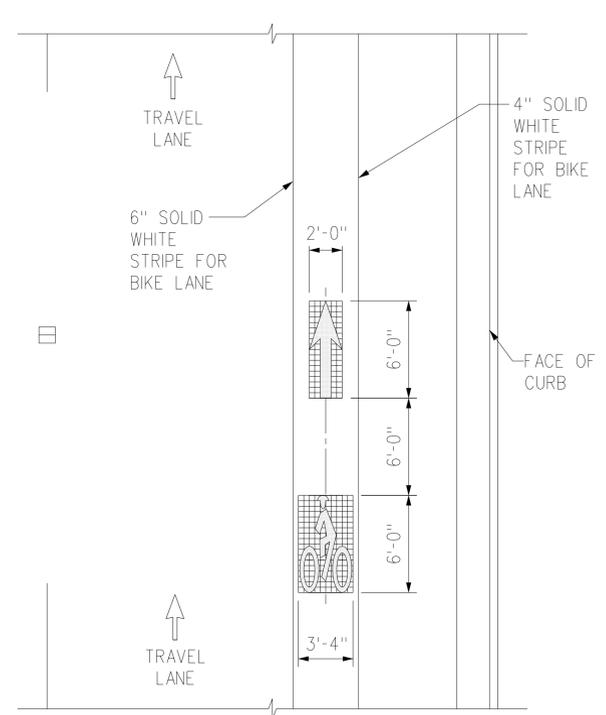
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 64S-7	167

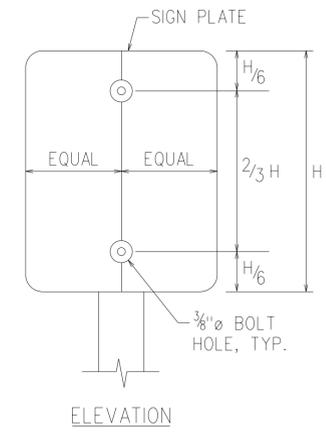


NOTE:
THE SHARED LANE MARKING SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND SPACED AT INTERVALS NOT GREATER THAN 250 FEET THEREAFTER.

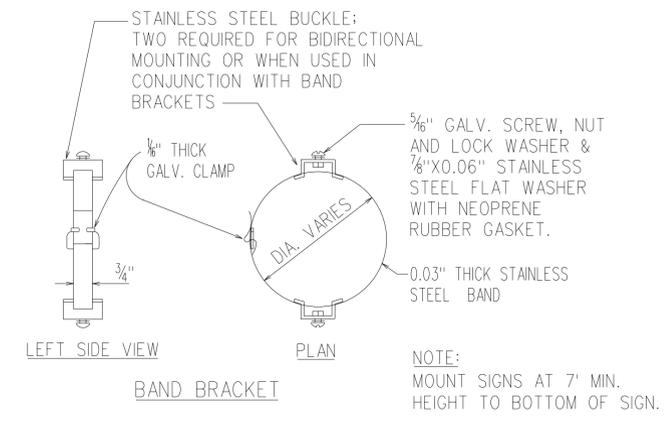
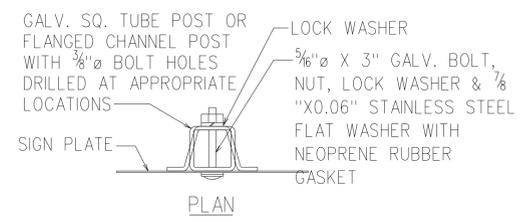
SHARED LANE MARKING
NOT TO SCALE



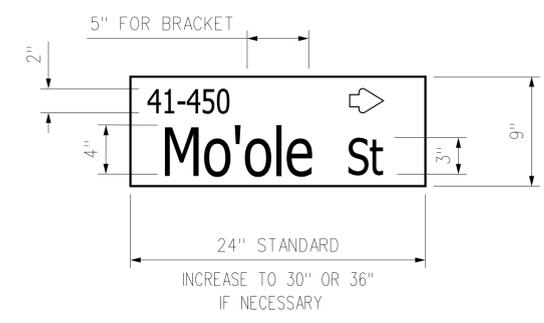
HELMETED BICYCLIST SYMBOL & ARROW
NOT TO SCALE



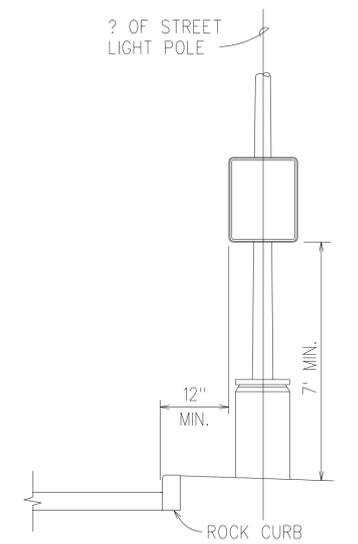
POST MOUNTING INSTALLATION
NOT TO SCALE



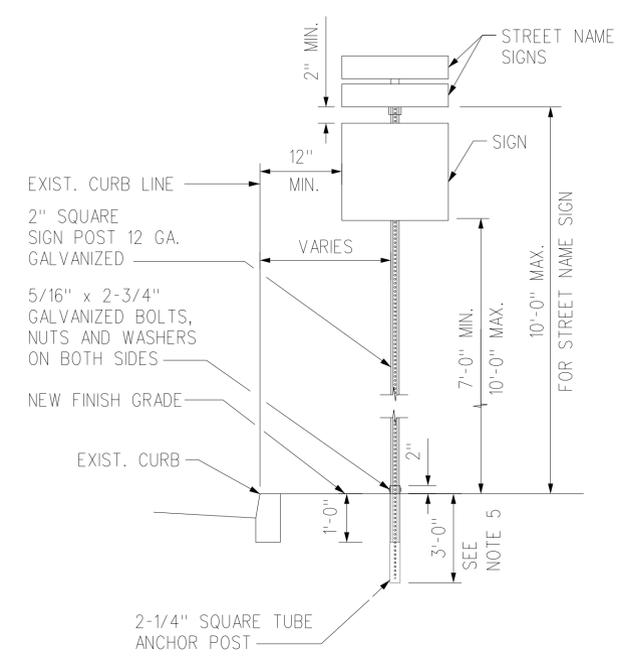
NEW SIGN ON EXISTING STREET LIGHT POLE MOUNTING DETAIL
NOT TO SCALE



STREET NAME SIGN DETAIL
NOT TO SCALE



HEIGHT AND LATERAL LOCATION OF SIGN
NOT TO SCALE



INSTALLATION OF NEW SIGN POST WITH ANCHOR POST
NOT TO SCALE

- ANCHOR POST NOTES:
- KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
 - SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
 - USE 5/16" X 2-3/4" BOLTS TO SECURE SQUARE TUBING POST ONTO THE 2-1/4" SQUARE TUBE ANCHOR POST.
 - VERIFY EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
 - MINIMUM BURY DEPTH FOR THE 2-1/4" ANCHOR POST (WITHOUT CONCRETE FOOTING) SHALL BE AS FOLLOWS:
4'-0" MIN. AT POOR SOIL CONDITIONS
2'-6" MIN. AT ROCKY CONDITIONS

- STREET NAME SIGN NOTES:
- REFERENCE STANDARD DETAILS T-1 AND T-14 FOR STREET NAME SIGN INSTALLATION. SEE STREET NAME SIGN DETAIL THIS SHEET.
 - SUBMIT SHOP DRAWINGS OF STREET NAME SIGNS AND CONNECTION DETAILS PRIOR TO FABRICATION OF SIGNS.

FOR USE WITHIN CITY R.O.W. ONLY

2 APPROVED:

CHIEF, TRAFFIC REVIEW BRANCH, DPP
(For Work within Proposed City R.O.W.)

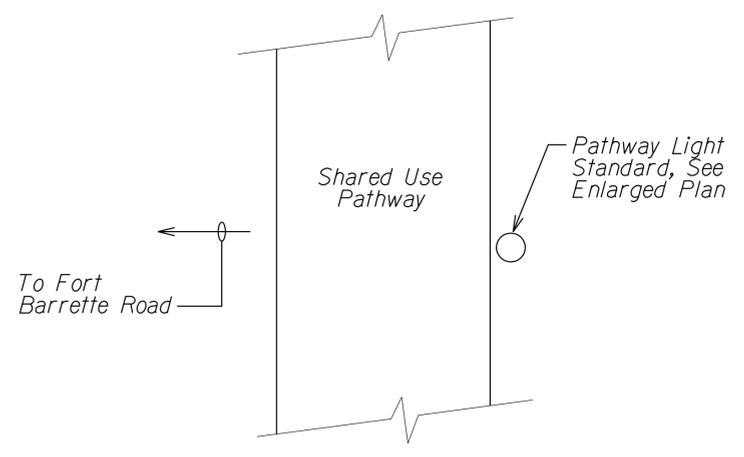
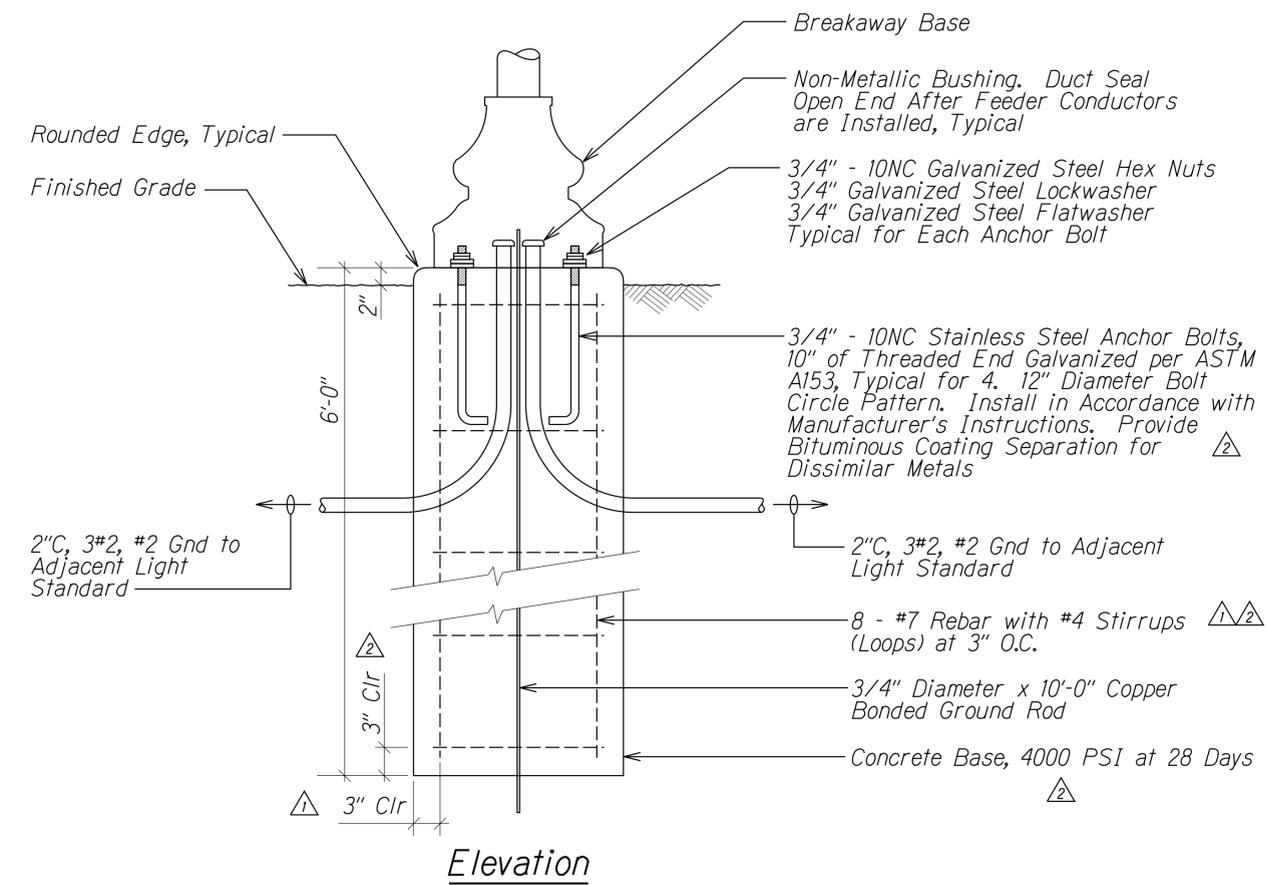
Date

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

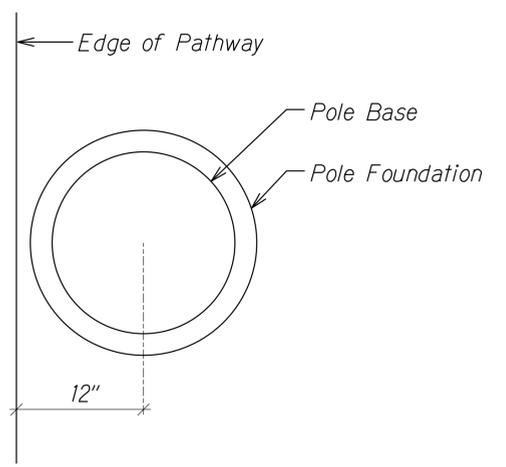
DATE	REVISION
4/07/20	ADDED CITY APPROVAL BLOCK
3/24/20	ADDED NEW PLAN SHEET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CITY AND COUNTY OF HONOLULU
PAVEMENT MARKING DETAILS
FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
PROJECT NO. 901A-01-19
Scale: Not to Scale Date: Feb., 2020
SHEET No. 713G OF 13 SHEETS

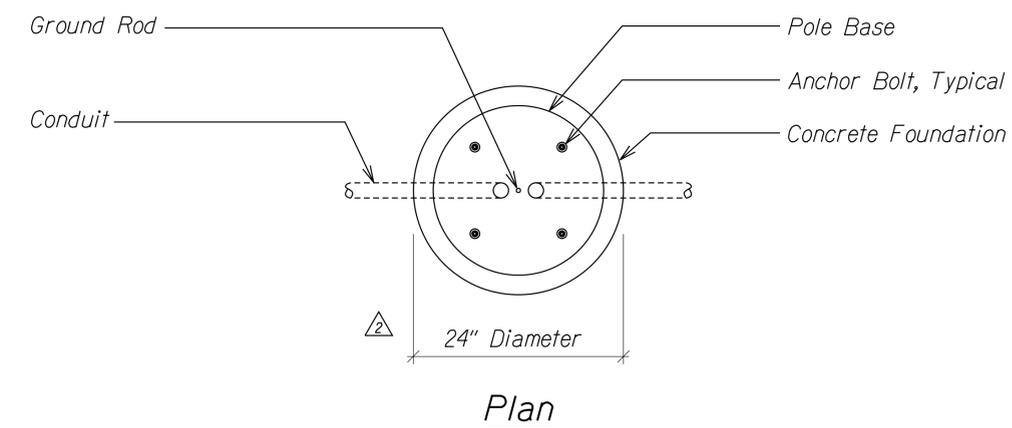
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-19	2020	ADD. 157	167



Partial Plan
At Shared Used Pathway



Enlarged Plan
At Light Standard



A TYPICAL POLE BASE DETAIL
E-21 | E-22 NOT TO SCALE

B PATHWAY LIGHT STANDARD LOCATION DETAIL
E-22 | E-22 NOT TO SCALE

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

Date	Revision
4/10/20	Revised Notes and Dimensions
3/3/20	Revised Note and Added a Dimension

RUSSELL S. MIYAHARA
LICENSED PROFESSIONAL ENGINEER
NO. 9444-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Russ S. Miyahara
SIGNATURE 4-30-20
EXPIRATION DATE OF THE LICENSE

RUSSELL K. MORI
LICENSED PROFESSIONAL ENGINEER
NO. 9013-E
4/17/20
HAWAII, U.S.A.

MK ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/20
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL POLE BASE DETAIL

FORT BARRETTE ROAD OPERATIONAL IMPROVEMENTS
Roosevelt Avenue to Farrington Highway
Project No. 901A-01-19
Scale: Not to Scale Date: Jan. 2020