

LEGEND:

|  |                               |  |                                     |
|--|-------------------------------|--|-------------------------------------|
|  | Existing Electrical Line      |  | Adjusted Storm Drain MH Frame/Cover |
|  | New Electrical Line           |  | Existing Water Backflow Preventer   |
|  | Existing Joint Pole           |  | Existing Sewer Line                 |
|  | Existing Power Pole           |  | New 12" Sewer Line                  |
|  | Existing Electric Manhole     |  | Existing Sewer Manhole              |
|  | Adjusted Elec. MH Frame/Cover |  | Adjusted Sewer MH Frame/Cover       |
|  | New Electric Manhole          |  | New Sewer Manhole                   |
|  | Existing Telephone Line       |  | Existing 6" Gas Line                |
|  | New Telephone Line            |  | New 6" Gas Line                     |
|  | Existing Telephone Pole       |  | Existing Gas Valve Box              |
|  | Existing Telephone Manhole    |  | Adjusted Gas Valve Box              |
|  | Existing Telephone Pullbox    |  | New Gas Valve Box                   |
|  | Adjusted Tele. MH Frame/Cover |  | Existing Gas Manhole                |
|  | New Telephone Manhole         |  | Adjusted Gas MH Frame/Cover         |
|  | Existing Signal Corps Line    |  | New Gas Manhole                     |
|  | New Signal Corps Line         |  | Existing Monument                   |
|  | Existing TV Cable             |  | Adjusted Monument                   |
|  | New TV Cable                  |  | New Monument                        |
|  | Existing 12" Water Line       |  | Existing 24" Drain Line             |
|  | New 12" Water Line            |  | New 24" RCP Drain Line              |
|  | Existing Water Manhole        |  | Existing Storm Drain Manhole        |
|  | Adjusted Water MH Frame/Cover |  | New Storm Drain Manhole             |
|  | New Water Manhole             |  | Existing Grated Drop Inlet          |
|  | Existing Water Air Valve      |  | Existing Catch Basin                |
|  | Adjusted Water Air Valve      |  | Existing Traffic Sign With 1 Post   |
|  | New Water Air Valve           |  | New Traffic Sign With 1 Post        |
|  | Existing Water Valve Box      |  | Existing Traffic Sign With 2 Posts  |
|  | Adjusted Water Valve Box      |  | New Traffic Sign With 2 Posts       |
|  | New Water Valve Box           |  | Existing Traffic Sign With 3 Posts  |
|  | Existing Water Meter          |  | New Traffic Sign With 3 Posts       |
|  | Adjusted Water Meter          |  | Existing Highway Lighting Standard  |
|  | New Water Meter               |  | Existing Single Metal Guardrail     |
|  | Existing Fire Hydrant         |  | New Single Metal Guardrail          |
|  | New Fire Hydrant              |  |                                     |

|  |                                 |
|--|---------------------------------|
|  | Existing Double Metal Guardrail |
|  | New Double Metal Guardrail      |
|  | Existing Fence                  |
|  | New Fence                       |
|  | Existing Traffic Signal Box     |
|  | Existing Traffic Signal Pole    |
|  | Existing Street Lamp Pullbox    |

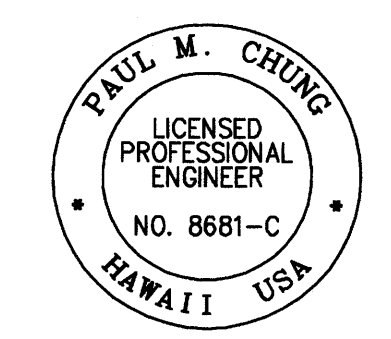
ABBREVIATION LIST:

|              |  |
|--------------|--|
| Aband.       | Abandoned                                  |
| AC           | Asphalt Concrete                           |
| ACB          | Asphalt Concrete Base                      |
| ADA          | American Disability Act                    |
| Approx.      | Approximately                              |
| ASTM         | American Society For Testing And Materials |
| ARV          | Air Relief Valve                           |
| BCC          | Bottom Of Concrete Curb                    |
| B            | Baseline                                   |
| Bot          | Bottom                                     |
| CL           | Center Line                                |
| CMU          | Concrete Masonry Unit                      |
| C.M.P.       | Corrugated Metal Pipe                      |
| CO           | Cleanout                                   |
| Conc.        | Concrete                                   |
| Cont.        | Continuous                                 |
| CRM          | Concrete Rubble Masonry                    |
| D/Dia.       | Diameter                                   |
| DCP          | Double Corrosion Protection                |
| Demo         | Demolition                                 |
| Det.         | Detail                                     |
| D.O.T        | Department Of Transportation               |
| DS.          | Downspout                                  |
| D.W.S.       | Department Of Water Supply                 |
| E.F          | Each Face                                  |
| E.P.         | Edge Of Pavement                           |
| Elec.        | Electric                                   |
| Elev.        | Elevation                                  |
| exist./ext'g | Existing                                   |
| Ft.          | Foot                                       |
| Galv.        | Galvanized                                 |
| GRP          | Grouted Rubble Pavement                    |
| Haw.         | Hawaii                                     |
| Horiz.       | Horizontal                                 |
| Inv.         | Invert                                     |
| ksi          | Kilopounds Per Square Inch                 |
| L            | Length                                     |

|        |                         |
|--------|-------------------------|
| LF     | Linear Feet             |
| Lt     | Left                    |
| Max    | Maximum                 |
| Min    | Minimum                 |
| MPH    | Miles Per Hour          |
| No.    | Number                  |
| N.T.S. | Not To Scale            |
| O.C.   | On Center               |
| O/S    | Offset                  |
| P.C.   | Point Of Curvature      |
| psi    | Pounds Per Square Inch  |
| P.C.C. | Point Of Compound Curve |
| P.T.   | Point Of Tangency       |
| PVC    | Polyvinyl Chloride      |
| Rein.  | Reinforcement           |
| R.O.W  | Right Of Way            |
| RPM    | Raised Pavement Marker  |
| Sht.   | Sheet                   |
| Sim    | Similar                 |
| Sta.   | Station                 |
| T.M.K. | Tax Map Key             |
| Tel    | Telephone               |
| T      | Thickness               |
| TRV    | Traverse                |
| TW     | Top Of Wall             |
| Typ.   | Typical                 |
| Vert.  | Vertical                |
| WM     | Water Meter             |
| WV     | Water Valve             |

|                     |       |                    |             |           |              |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | ER-15(19)          | 2009        | 7         | 59           |

|                   |       |
|-------------------|-------|
| DATE              | _____ |
| SURVEY PLOTTED BY | _____ |
| DESIGNED BY       | _____ |
| NOTED BY          | _____ |
| CHECKED BY        | _____ |
| ORIGINAL PLAN     | _____ |
| NOTE BOOK         | _____ |
| No.               | _____ |



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE \_\_\_\_\_ 04/30/10  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

LEGEND & ABBREVIATIONS

EMERGENCY EARTHQUAKE ROCKFALL REPAIRS

Various Locations on Hawaii, Unit 1

Federal Aid Project No. ER-15(19)

Scale: AS NOTED Date: Dec. 18, 2009

SHEET No. 1 OF 1 SHEETS