CONSTRUCTION NOTES

RISER TO SECONDARY ----

BY MAUI ELEC. CO.

INSTALL ONE LENGTH

CONDUIT WITH 3 GALV.

EXISTING -

POWER POLE

STRAPS PER LENGTH

2" PVC SCH. 80

2" PVC SCH. 80

ELBOW (2' RADIUS) -

- LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES SUCH AS PIPE-LINES. CONDUITS. CABLES. ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATION OF ALL UNDER-GROUND UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRAC-TOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITH THE RESPECTIVE OWNERS. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
- 2. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- 3. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- 4. THE CONTRACTOR SHALL TONE AND LOCATE EXISTING UTILITIES ALONG DUCTLINE PRIOR TO EXCAVATION.
- 5. THE LOCATIONS OF THE NEW TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS WITH MAST-ARM, PEDESTRIAN PUSH BUTTONS, TRAFFIC CONTROLLER, PULLBOXES, CONDUITS AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CON-TRACTOR AND APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
- 6. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," FEDERAL HIGHWAY ADMINISTRATION (1988) AND AMENDMENTS.
- 7. LOCATIONS OF NEW PAV'T. STRIPING, MARKERS, AND MARKINGS (PAVEMENT ARROW, STOP LINES, CROSSWALK, ETC.) SHOWN ON THE PLANS SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
- MAINTENANCE OF TRAFFIC THROUGH THE CONSTRUCTION AREA SHALL BE IN ACCOR-DANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1988) AS AMENDED AND AS SPECIFIED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, BLINKERS, CONSTRUCTION SIGNS, ETC., FOR THE SAFETY OF THE MOTORING PUBLIC.
- 9. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC.
- 10. ONCE EACH NEW TRAFFIC SIGNAL SYSTEM IS OPERATIONAL, THE CONTRACTOR SHALL REMOVE THE EXISTING METER PEDESTAL. THE CONTRACTOR SHALL RETURN THE EXISTING METER TO MAUI ELECTRIC COMPANY.

NOTES:

1. PEDESTAL SHALL BE

HOT DIPPED GALV.

AFTER FABRICATION.

2. ALL FASTENING BOLTS,

NUTS, AND WASHERS

SHALL BE STAINLESS

CLEARANCE IN FRONT

3. PROVIDE 4 FT.

OF METER.

TRAFFIC SIGNAL-

METER I.D. TAG

SEE DET. THIS SHT.

PULLBOX NEMA 3R

6"DX10"WX12"H

#8 COPPER

GROUND WIRE

" CONDUIT

(STAINLESS STEEL) SEALABLE ENCLOSURE

THERMOWELD ~

1. THE CONTRACTOR/UTILITY COMPANY SHALL CONTACT THE DEPARTMENT OF WATER SUPPLY AT PHONE #243-7340 ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.

- 2. THE CONTRACTOR/UTILITY COMPANY SHALL BE RESPONSIBLE TO VERIFY THE EXACT DEPTH AND LOCATION OF EXISTING WATERLINES IN THE PROJECT AREA PRIOR TO COMMENCEMENT OF WORK AND SHALL MEET THE DEPARTMENT OF WATER SUPPLY PERSONNEL OUT IN THE FIELD TO HELP LOCATE THE EXISTING WATERLINES IN THE PROJECT AREA IF NECESSARY.
- 3. MAINTAIN A MINIMUM OF THREE (3) FEET CLEAR HORIZONTAL SEPARATION BETWEEN EXISTING WATERLINES AND INSTALLED UTILITIES.
- 4. MAINTAIN A MINIMUM OF SIX (6) INCHES CLEAR VERTICAL SEPARATION BETWEEN EXISTING WATERLINES AND INSTALLED UTILITIES AT ALL CROSSINGS.
- 5. ANY INSTALLED UTILITY CROSSING AN EXISTING WATERLINE SHALL BE CONCRETE JACKETED A MINIMUM OF FIVE (5) FEET ON BOTH SIDES OF THE CROSSING.

COST FOR RAILROAD PAVEMENT STRIPING SHALL

NOT TO SCALE

EXTRUSION)

3/16 (TYP)

2.5"X2.25"X.0.25"L

WELDED TO PIPE

3" DIA. GALV.

CONC. BASE-2500 PSI

TO TRAFFIC CONTROLLER

6" 6"

SIDE ELEVATION

STEEL PIPE.

INCLUDE 2-16" SOLID WHITE STRIPES (THERMOPLASTIC

EXTRUSION) AND 2 PAVEMENT LETTERS (THERMOPLASTIC

RAILROAD PAVEMENT STRIPING DETAIL

4-JAW SELF CONTAINED

UNDERGROUND METER SOCKET

W/ MANUAL CLOSING DEVICE

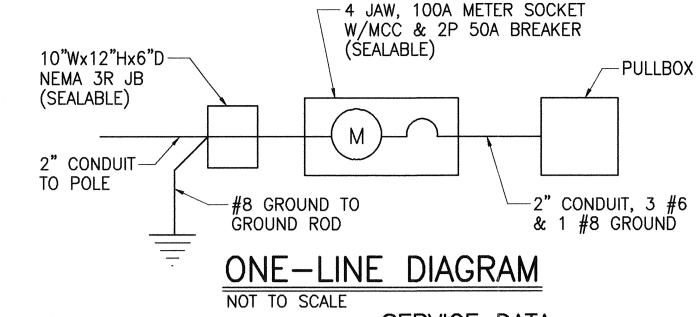
(ŚIMILAR TO STRONG BOX

STAINLESS STEEL METERED

ENCLOSURE, CAT#114 TB)

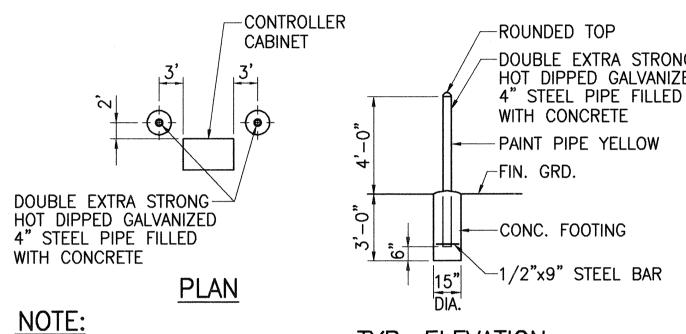
∠2" PVC SCH. 80 CONDUIT

90° BEND, 3' RADIUS.



SERVICE DATA

- 1. SERVICE VOLTAGE: 1 PHASE 3 WIRE 120/240 V
- 2. LOAD DATA: CONNECTED -5KVA ESTIMATED DEMAND-2KVA
- 3. SERVICE CONDUCTORS: 3-#6 CU



WIDTH MAY VARY

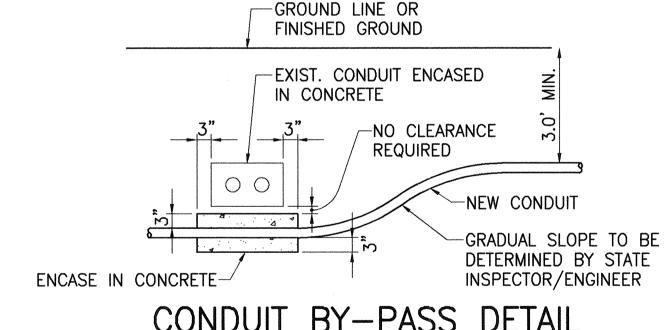
ACCORDING TO LANE WIDTH

COST OF CONC. FILLED GALVANIZED POSTS SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.

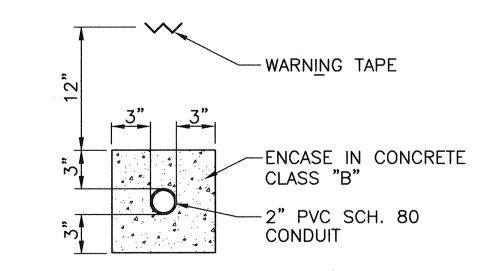
-DOUBLE EXTRA STRONG HOT DIPPED GALVANIZED 4" STEEL PIPE FILLED

TYP. ELEVATION

PIPE GUARD DETAIL NOT TO SCALE



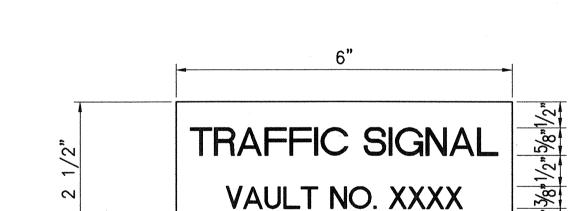
CONDUIT BY-PASS DETAIL NOT TO SCALE



MAUI ELECTRIC CONDUIT DETAIL NOT TO SCALE

NOTES

- 1. MAUI ELECTRIC CO. SHALL FURNISH AND INSTALL CABLE BETWEEN SECONDARY AND METER SOCKET.
- 2. CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS TO CONTROLLER, PROVIDE BREAKER, GROUND AND CONCRETE-ENCASED 2" PVC SCH. 80 CONDUIT.
- 3. ALL CONDUITS TO CONTAIN A POLYOLEFIN PULL LINE (JET LINE CAT. #232 OR EQUIVALENT).
- 4. CONTRACTOR SHALL PROVIDE MAUI ELECTRIC CO. ONE WEEK ADVANCE NOTICE FOR ANY WORK TO BE DONE BY MAUI ELECTRIC CO.



FED. ROAD STATE

DIST. NO.

FINISH -GRADE

NOT TO SCALE

FED. AID

PROJ. NO.

HAW. NH-STP-030-1(27) 2000

- EXIST. WOOD POLE

2" PVC, SCH. 80

1 HOLE GALVANIZED MALLEABLE IRON

-GROUND WIRE

GROUNDING

BUSHING

STRAPS SECURELY MOUNTED INTO

WOODEN POLE WITH WOOD SCREWS.

CONDUIT RISER

TSPB

5/8" X 8'-0"-

GROUND ROD

INTERCONNECT ON EXISTING WOOD POLE

FISCAL SHEET TOTAL

5

NO. SHEETS

19

YEAR

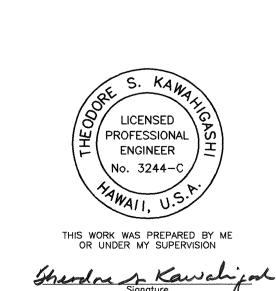
NOTES:

- 1. USE 3-PLY LAMINATED FLEXIBLE PLASTIC, BLACK-WHITE-BLACK THICKNESS: BLACK CAP SHEET - 0.010", WHITE BASE SHEET - 0.052", BLACK BASE SHEET - 0.010".
- 2. ATTACH TO METER BOX USING SCOTCH 3M BRAND VERY HIGH BOND (VHB) DOUBLE COATED ACRYLIC FOAM TAPE OR EQUIVALENT.
- 3. LETTERS/NUMBERS SHALL BE 1/16" STROKE, (WHITE IN COLOR).
- 4. LETTERS/NUMBERS SHALL BE INSCRIBED BY CUTTING THROUGH "BLACK CAP SHEET" TO EXPOSE WHITE LETTERS/NUMBERS.

1 3/5/01 ADDED NOTES

SCALE: AS NOTED

METER I.D. TAG DETAIL NOT TO SCALE



REVISION DATE MADE BY APPROVED STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CONSTRUCTION NOTES AND DETAILS HONOAPIILANI HIGHWAY

TRAFFIC SIGNAL MODERNIZATION, KAANAPALI TOWARDS LAHAINA FED. AID PROJECT NO. NH-STP-030-1(27)

SHEET No. 1 OF 1 SHEETS

DATE: MAY 1999

ATA

METER PEDESTAL FOR UNDERGROUND SERVICE NOT TO SCALE

FRONT ELEVATION

6"

TO POWER POLE-

- PLUG 3" PIPE-

W/1/4"PLATE