FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1A/D-01-10M	2011	7	56

CONSTRUCTION NOTES:

1. Provide 3#2 XHHW ∉ #2 Gnd in One of the Exist 2" Conduits. See One-Line Diagram.
2. Splice New Conductors to Existing.
3. Remove Debris ∉ Provide Pullbox Cover
4. Replace Existing Pullbox with Type "A" Pullbox
5. Provide New Light Standard, See Detail on Sht E-25
6. Remove Dirt/Grass Covering Existing Pullbox. Provide New Pullbox Cover
7. Remove Abandoned Wires. See Note 1 on This Sheet.
8. Replace Existing 250W High Pressure Sodium Lamp with New.
9. Replace Existing Concrete Foundation with New. See Detail on Sht E-25
10. Provide 1-2" PVC Sched 80. Penetrate Existing Pullbox
11. Replace Existing Junction Box with New Nema 4X Junction Box 12" x 16" x 6". See Det on sht E-30
12. Remove Existing 2-2" Conduit ∉ Mounting Brackets. Provide 1-2" PVC Coated Galv Rigid Steel Conduit w/ 3#2 XHHW, #2 Gnd Conductors. See Det on Sht E-30
13. Provide 2#8 ∉ #8 Gnd ∉ In-Line Fuse Holder. See Wiring Diag. (B) on Sht E-30
14. Replace Existing Identification Tag with New, See Detail on Sht E-25

ABBREVIATION

st	street
lt	light
conc	concrete
jb	junction box
mtd	mounted
gnd	ground
exist	existing
det	detail
W	watt
pvc	polyvinyl chloride
sched	schedule
nema	nation electrical manufactures association
galv	galvanized
∉	and
I.D.	identification
sl	street light
hwy	highway
ckt	circuit
lp	light pole
ltg	lighting
elec	electrical
struc	structural

ELECTRICAL SYMBOLS

Existing	New	
⊸○	⊸○	Highway Lighting Standard 250W High Pressure Sodium Luminaire on Concrete Base. See Det A / E-1 | E-25
sl ▭		Street Light Pullbox
—— e ——	—— L ——	Underground St. Lt. Lighting Conduit, 2 Inch PVC
⊣J		Junction Box
[1]		Indicates Construction Note No. 1
1 / 5ca | III / N250 | 480V		Indicates Light Pole Indentification Tag. See Det C / E-1 | E-25
2-2"L		Denotes 2-2" St. Lt. Conduits
----- e -----		St. Lt. Conduit Mounted on Concrete Guard Rail
(A)——		Denotes Conduit Mounting Detail "A", See Sht E-30
⟨1⟩		Denotes Note #1 for BMP Items

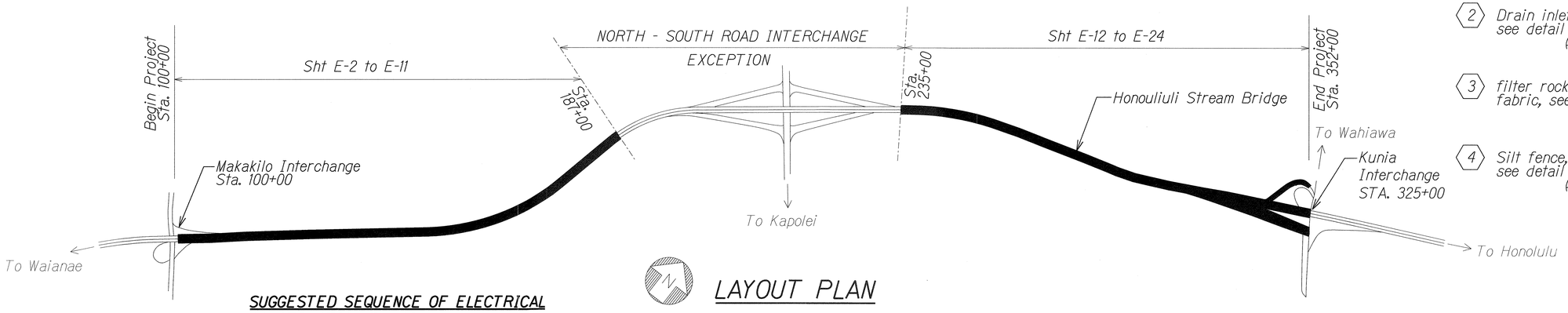
NOTES FOR BMP ITEMS:

⟨1⟩ Grate drain inlet protection, see detail A / E-1 | H-3

⟨2⟩ Drain inlet protection, see detail B / E-1 | H-3

⟨3⟩ filter rock berm w/ filter fabric, see detail C / E-1 | H-3

⟨4⟩ Silt fence, see detail D / E-1 | H-3



LAYOUT PLAN

Notes:

1. In the event that the existing conductors cannot be removed due to damage underground lighting conduit, the contractor shall determine the exact location of the damaged conduit. The determination of the location is incidental and the repair will be paid under force account.

SUGGESTED SEQUENCE OF ELECTRICAL CONSTRUCTION PHASING:

Phase 1 - H-1 Freeway:
(Outbound) Mauka : Sta. 100+00 to 183+00

Phase 2 - H-1 Freeway:
(Inbound) Makai : Sta. 100+00 to 186+00

Phase 3 - H-1 Freeway:
(Outbound) Mauka : Sta. 232+00 to 325+00

Phase 4 - H-1 Freeway:
(Inbound) Makai : Sta. 232+00 to 325+00

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

RUSSELL A. MORAN
LICENSED PROFESSIONAL ENGINEER
No. 9013-E
HAWAII, U.S.A.
8/12/10
MK ENGINEERS, LTD.
LICENSE EXPIRATION DATE: 4/30/12
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL SYMBOLS & CONSTRUCTION NOTES

Interstate Route H-1
Freeway Lighting System Reconductoring
Makakilo Interchange to Kunia Interchange
Project No. H1A/D-01-10M
Date: Aug. 2010

SHEET No. E-1 OF 56 SHEETS

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