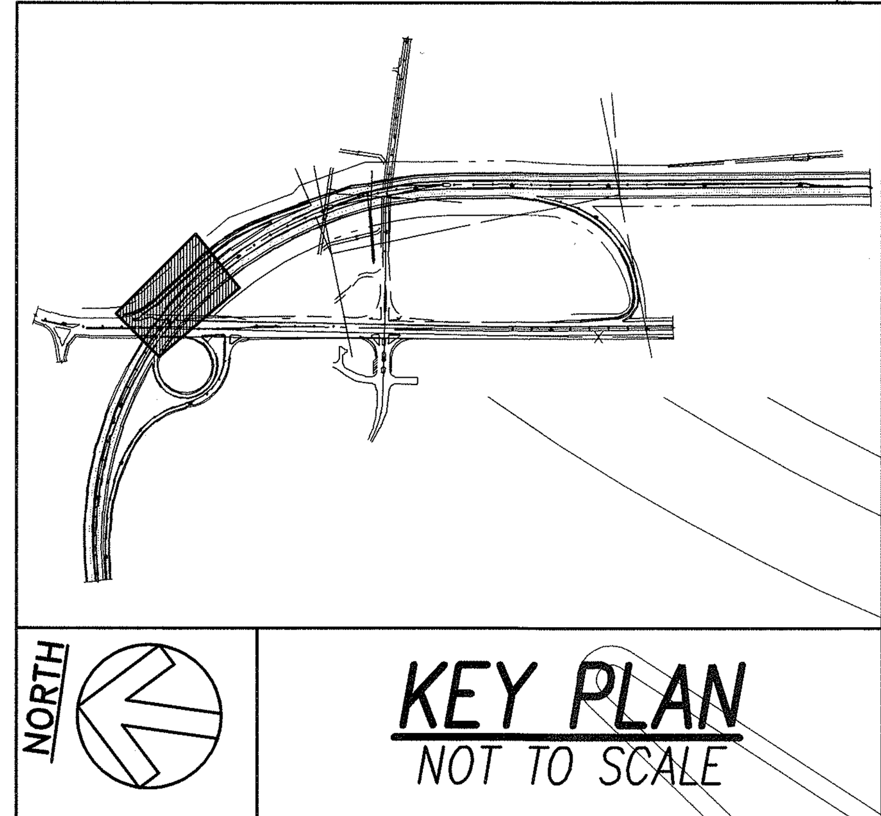
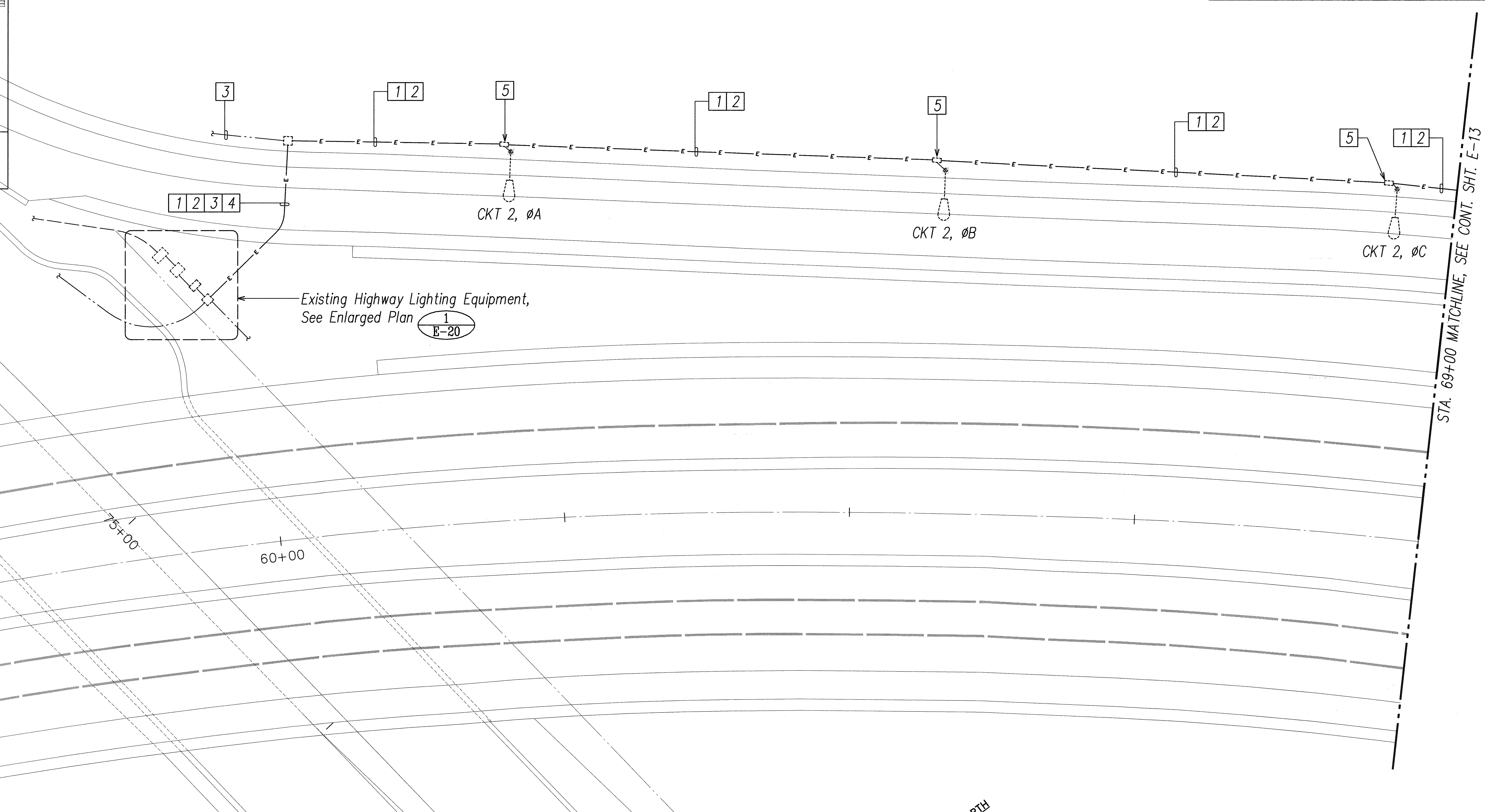
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	13	38





PARTIAL HIGHWAY LIGHTING NEW WORK PLAN I

SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 4340-E
HAWAII, U.S.A.

05.22.08

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04.30.2010
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING NEW WORK PLAN I

H-2 RAIL LIGHT REPLACEMENT, VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05MR

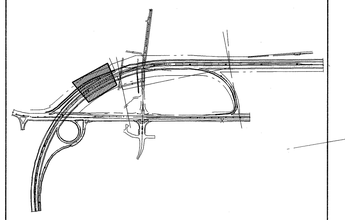
Scale: AS NOTED Date: MAY 2008

SHEET No. E-12 OF 35 SHEETS

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

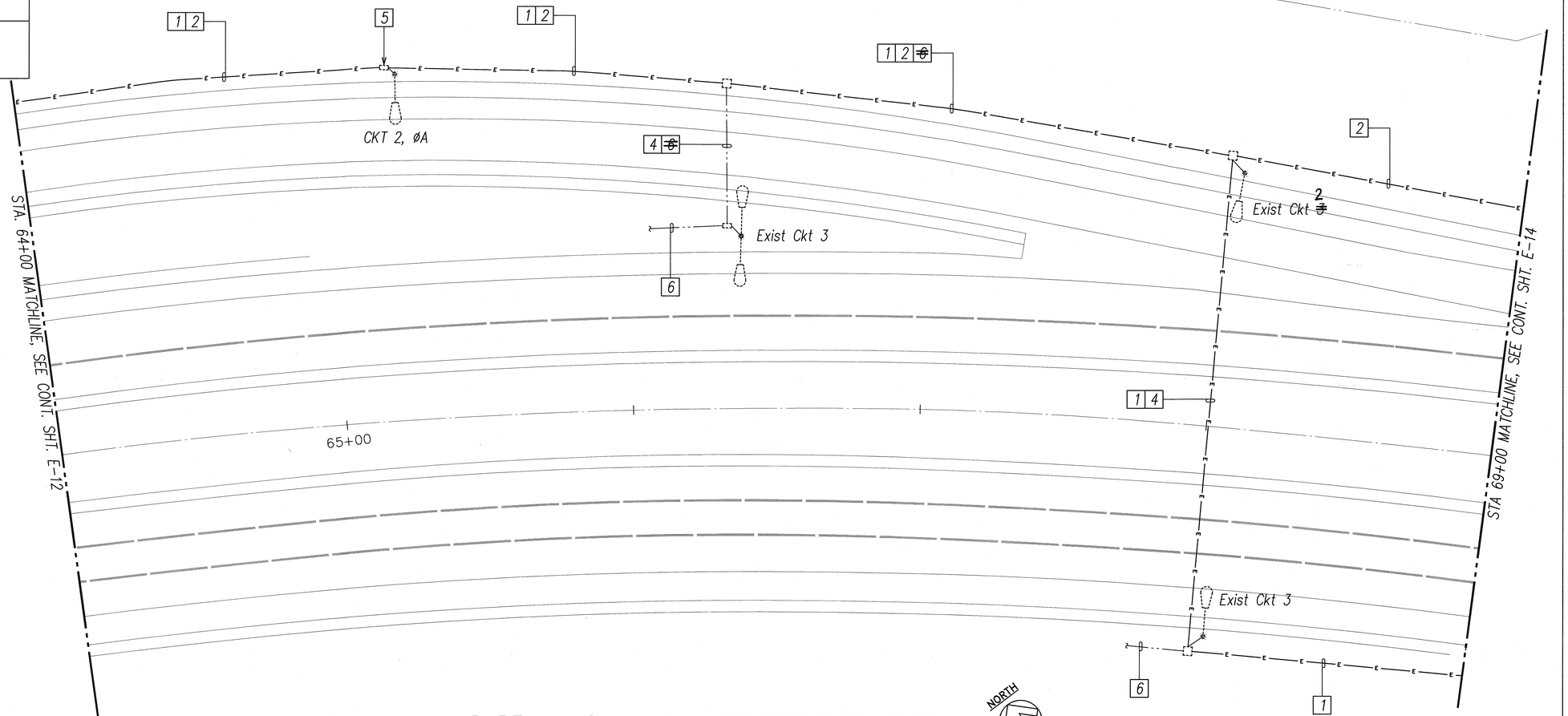
LAST SAVE: 06/03/07 @ 05:55:30 BY: AM PLOT SC 1=20

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	14	38



NORTH

KEY PLAN
NOT TO SCALE



NORTH

PARTIAL HIGHWAY LIGHTING NEW WORK PLAN II
SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

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

LAST SAVE: 05/20/07 @ 8:55:53 PM PLOT SC: 1=20
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RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers
LICENSED PROFESSIONAL ENGINEER
ANDREW I. MIYASATO
No. 4340-E
HAWAII, U.S.A.
05.20.08
Andrew I. Miyasato
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
04.30.2009
EXPIRATION DATE OF THE LICENSE

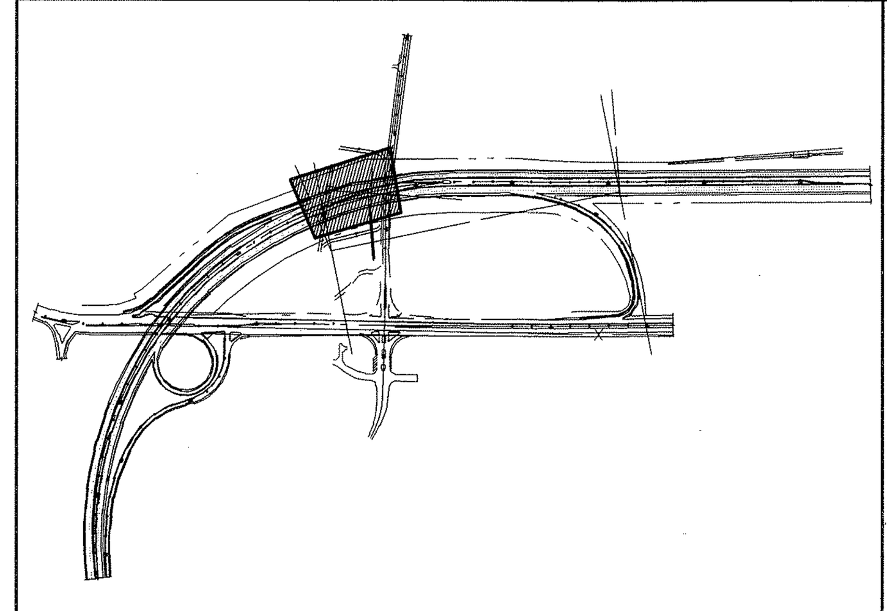
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN II
H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05MR
Scale: AS NOTED Date: MAY 2008
SHEET No. E-13 OF 35 SHEETS

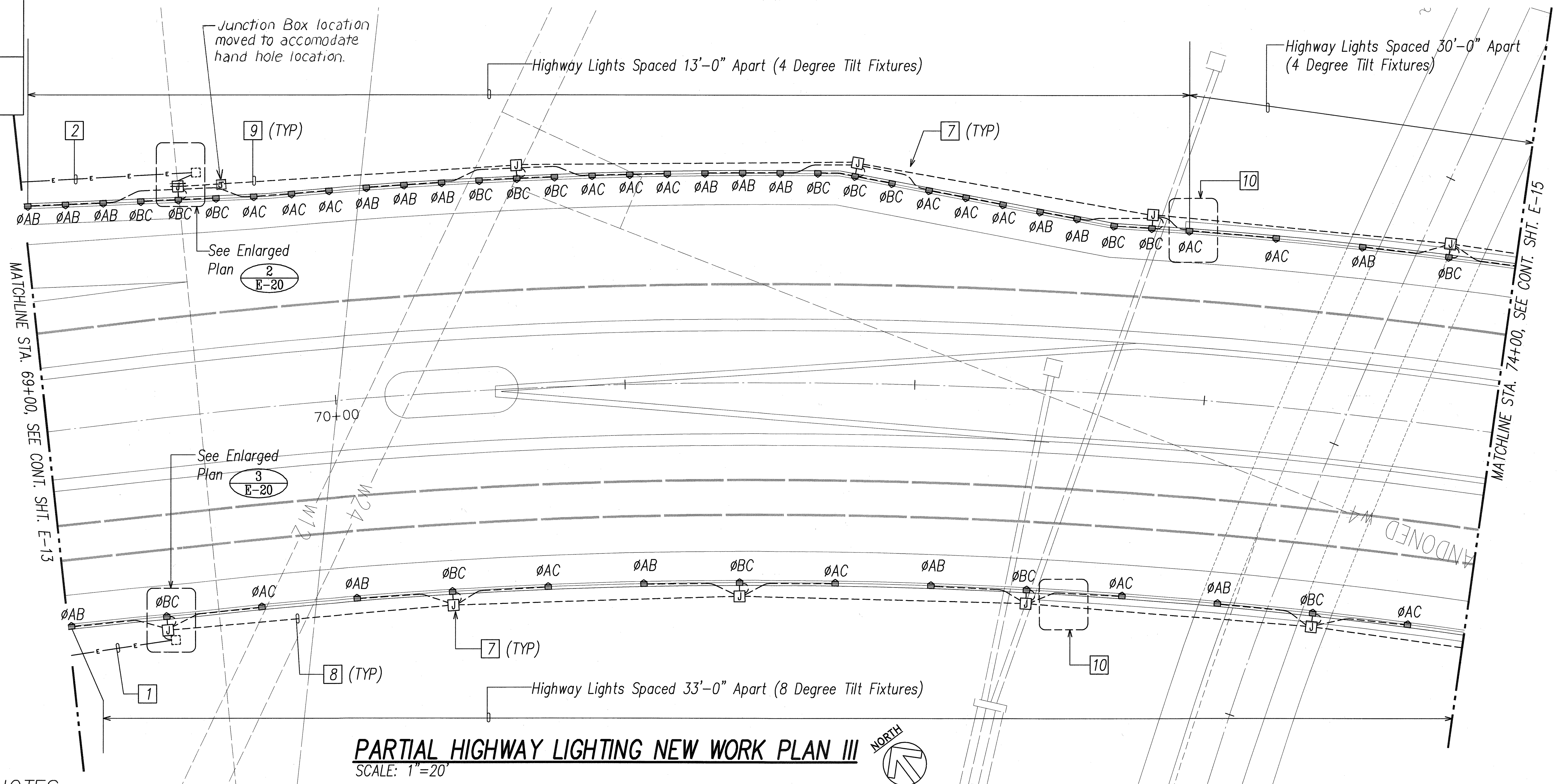
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	15	38



NORTH

KEY PLAN
NOT TO SCALE



PARTIAL HIGHWAY LIGHTING NEW WORK PLAN III
SCALE: 1"=20'

NORTH

NEW WORK PLAN NOTES

1. ~~New Circuit No. 1: Existing 2" Conduit with New~~ Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. ~~Existing Circuit No. 3 to Remain.~~
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. ~~New Circuit NO. 2:~~ New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

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

LAST SAVE: 06/03/07 @ 05:56:15 BY: AM PLOT SC 1=20
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RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO — LICENSED PROFESSIONAL ENGINEER — No. 4340-E — HAWAII, U.S.A.

05.22.08

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04.30.2010

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN III

H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

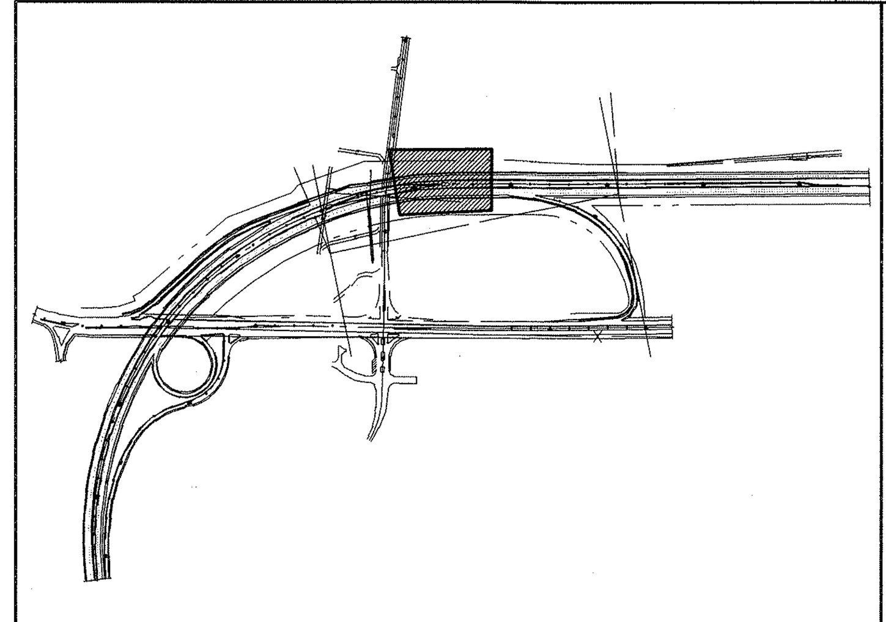
Project No. HWY-0-03-05MR

Scale: AS NOTED Date: MAY 2008

SHEET No. E-14 OF 35 SHEETS

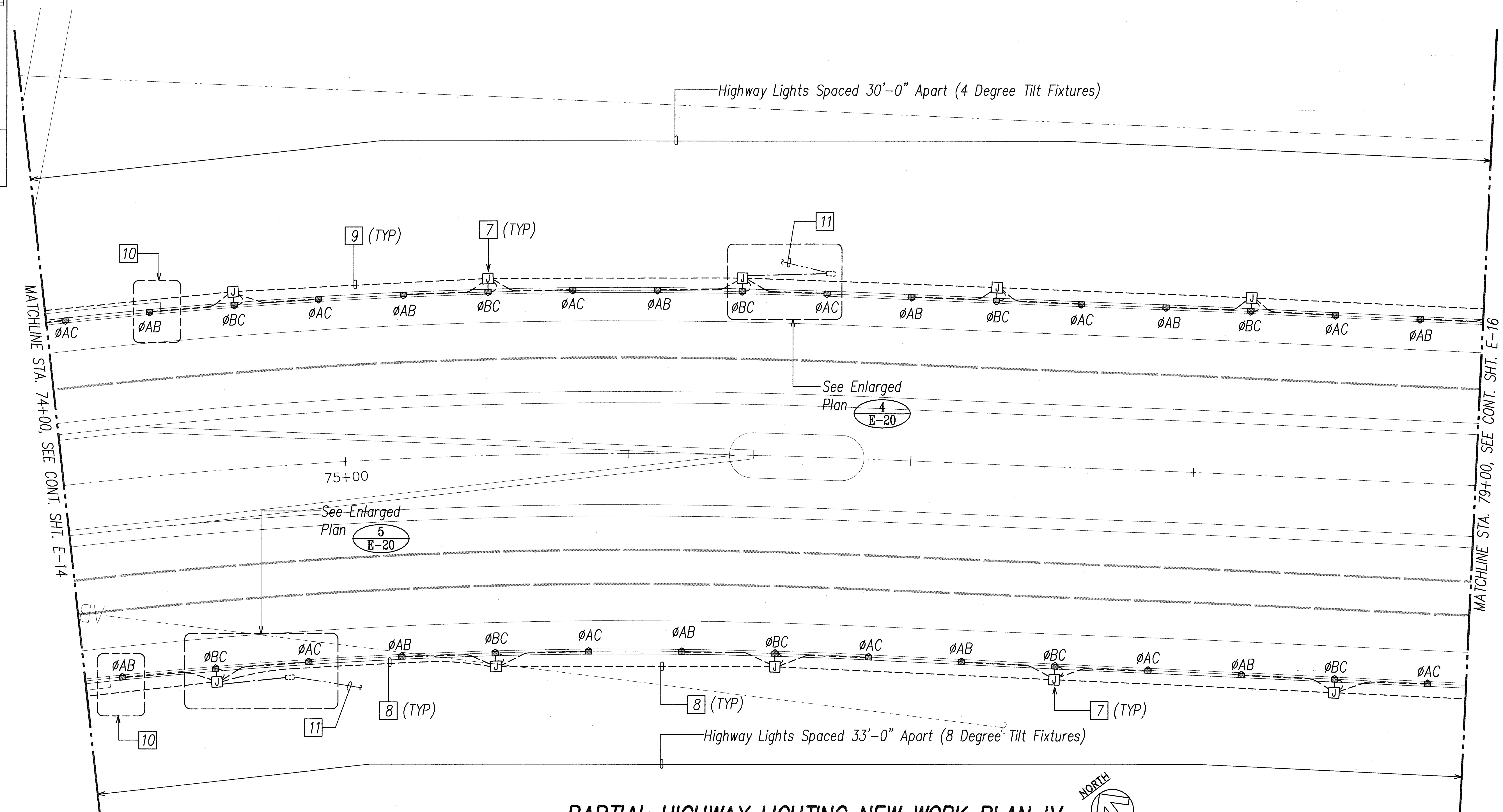
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	16	38



NORTH

KEY PLAN
NOT TO SCALE



PARTIAL HIGHWAY LIGHTING NEW WORK PLAN IV
SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E–26 and E–2 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E–26 and E–2 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S–1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S–1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box;
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S–1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 4340-E
HAWAII, U.S.A.
05.22.08

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04.30.2008
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

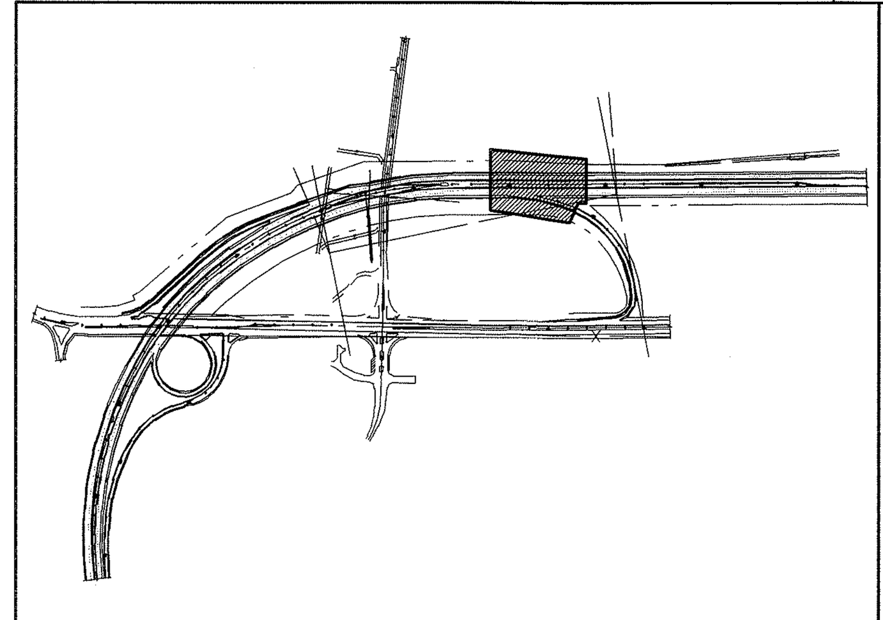
PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN IV

H–2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY–0–03–05MR
Scale: AS NOTED Date: MAY 2008
SHEET No. E–15 OF 35 SHEETS

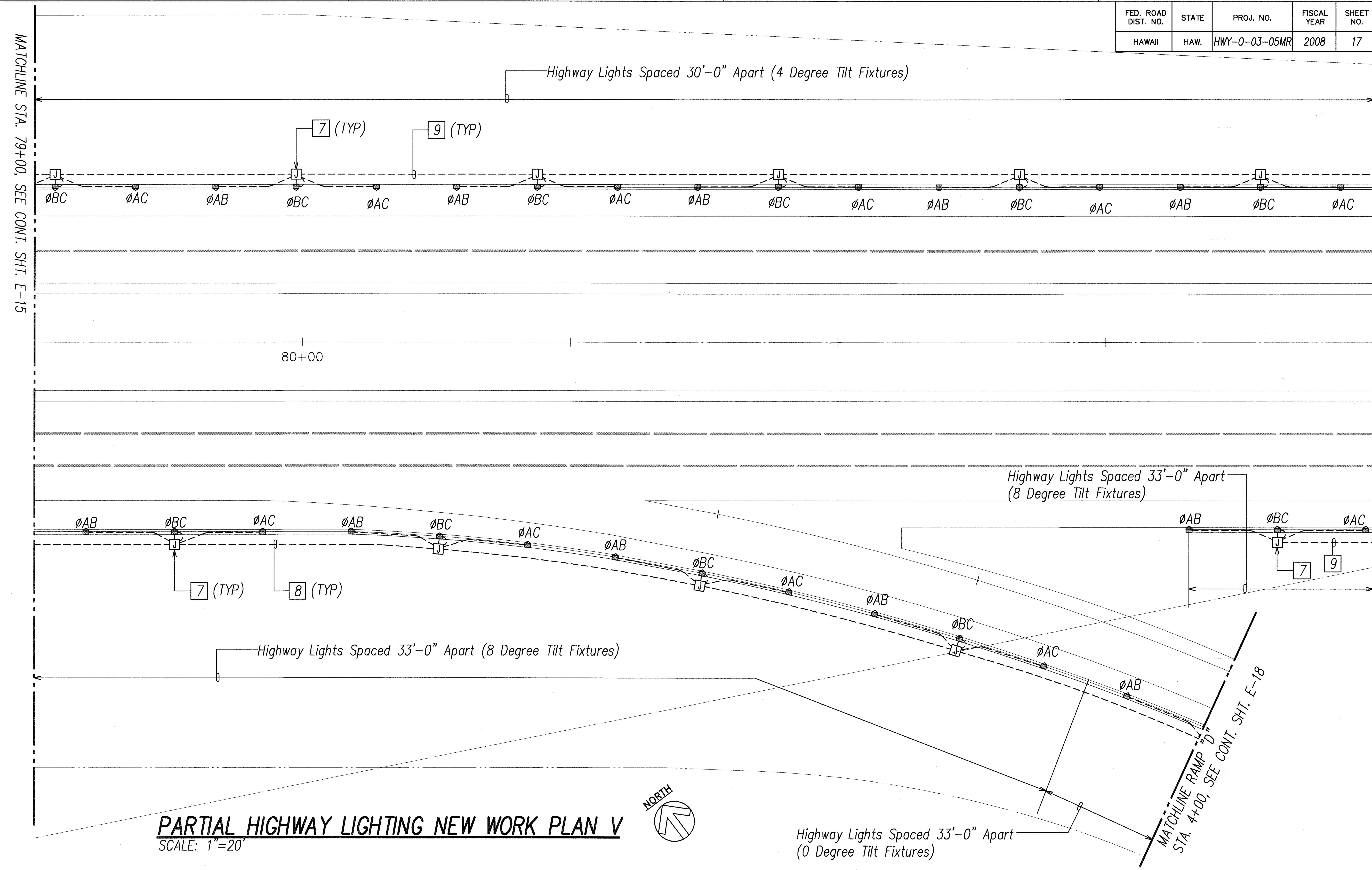
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	17	38



NORTH

KEY PLAN
NOT TO SCALE



PARTIAL HIGHWAY LIGHTING NEW WORK PLAN V
SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

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

LAST SAVE: 06/03/07 @ 05:56:57 BY: AM PLOT SC 1=20
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RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 4340-E
HAWAII, U.S.A.
05.22.08

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04.30.2010
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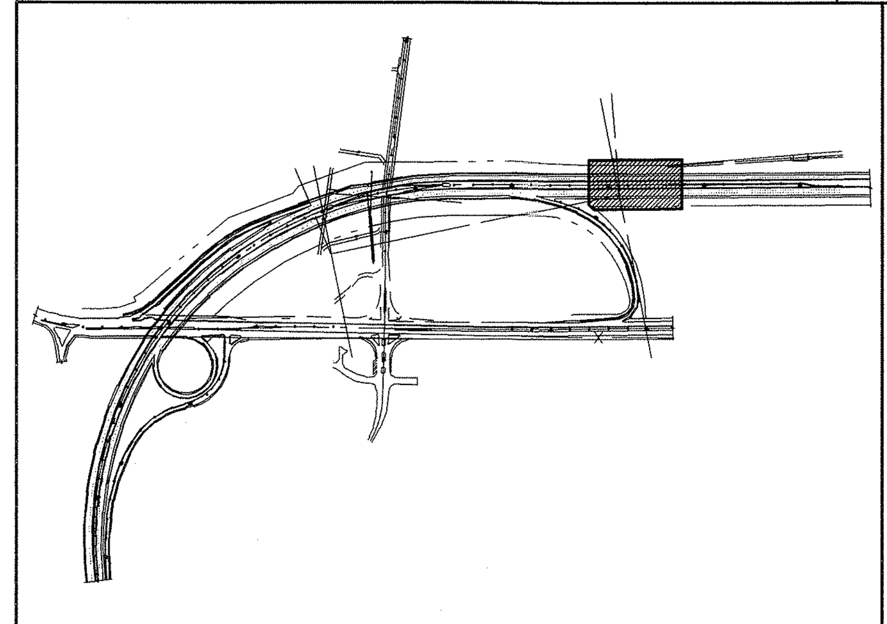
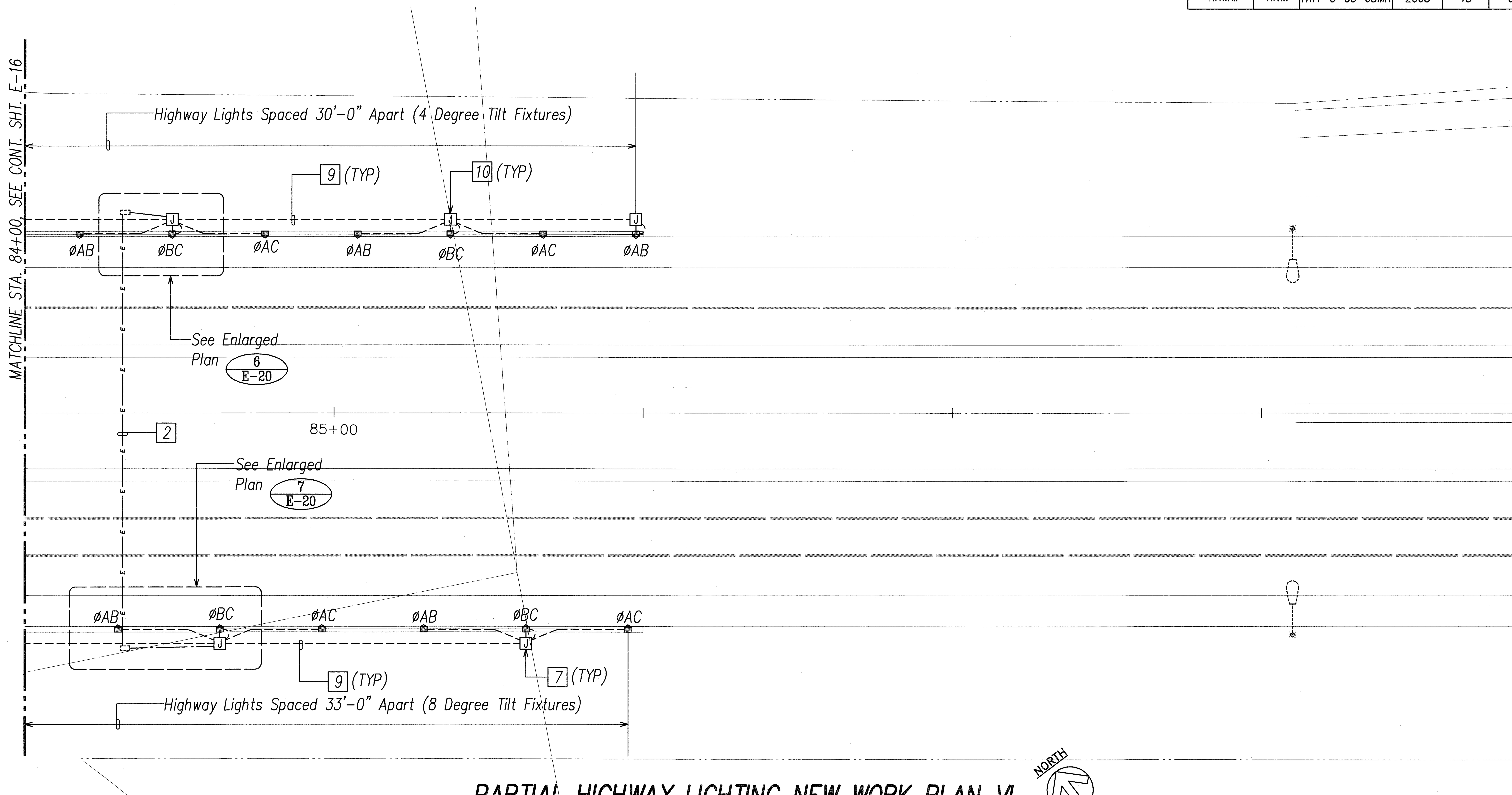
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN V
H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05MR
Scale: AS NOTED Date: MAY 2008
SHEET No. E-16 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	18	38





PARTIAL HIGHWAY LIGHTING NEW WORK PLAN VI

SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

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

RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 4340-E
HAWAII, U.S.A.

05.22.08

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04.30.2010
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

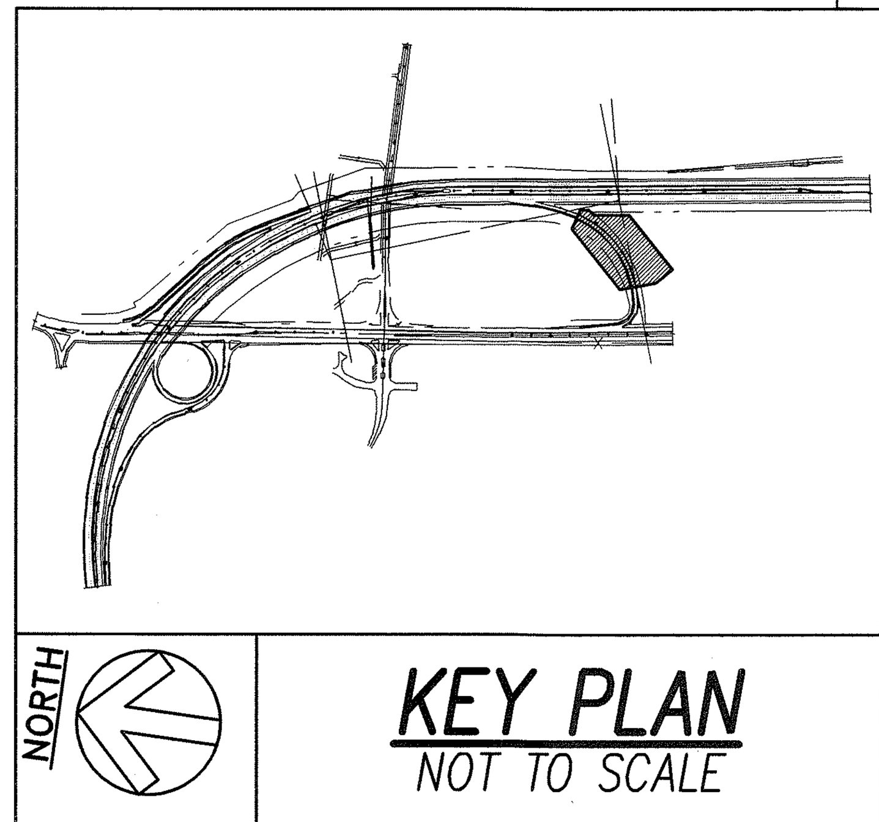
PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN VI

H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

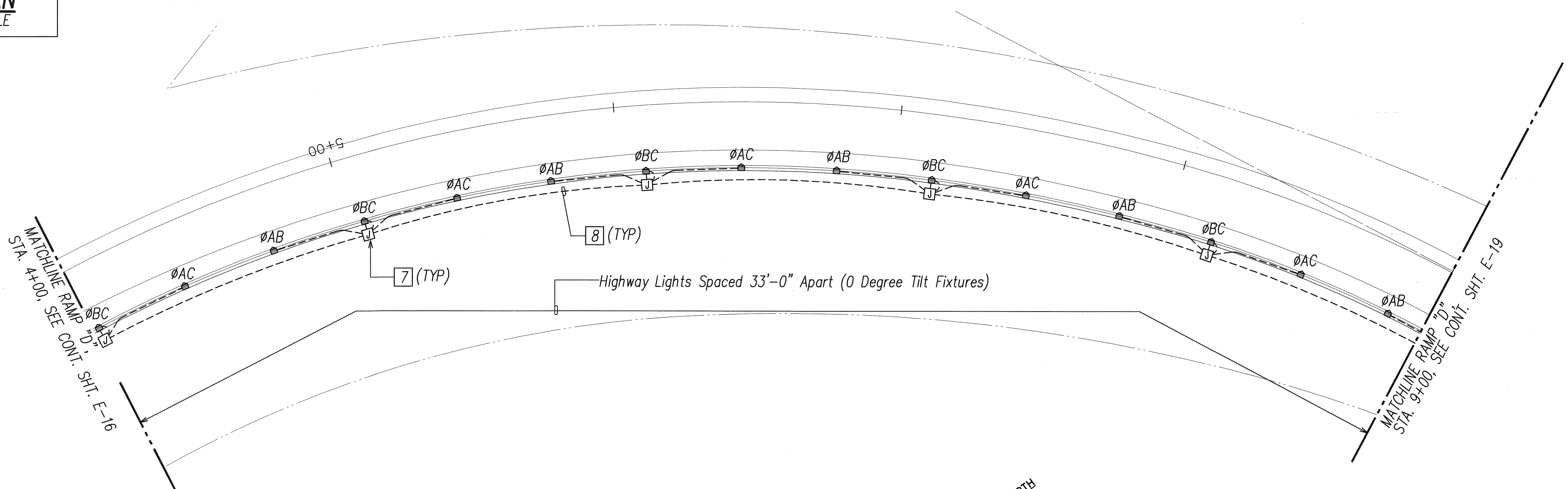
Project No. HWY-0-03-05MR
Scale: AS NOTED Date: MAY 2008

SHEET No. E-17 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	19	38



KEY PLAN
NOT TO SCALE



PARTIAL HIGHWAY LIGHTING NEW WORK PLAN VII
SCALE: 1"=20'

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
8. New Circuit NO. 1: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
10. Provide Galvanized Rigid Steel Conduit to Liquidtite Flexible Metal Conduit Transition Across Existing Bridge Expansion Joint as Required to Allow for Movement of Bridge Structure Without Damaging Conduit Installation.
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.

RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO LICENSED PROFESSIONAL ENGINEER No. 4340-E HAWAII, U.S.A.

05.22.08

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04.30.2010
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN VII
H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05MR
Scale: AS NOTED Date: MAY 2008
SHEET No. E-18 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05MR	2008	20	38

NEW WORK PLAN NOTES

1. New Circuit No. 1: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
2. New Circuit No. 2: Existing 2" Conduit with New Conductors. See Existing Highway Lighting System Diagrams with Modifications on Sheets E-26 and E-27 for Conductor Sizes.
3. Existing Circuit No. 4 to Remain.
4. Existing Spare 2" Conduit.
5. Existing Highway Light Standard Circuit to be Reconnected to New Circuit in Existing Pullbox.
6. Existing Circuit No. 3 to Remain.
7. New Junction Box, 18" SQ. x 8"D, NEMA 4X, Type 315 Stainless Steel, with Tamperproof Screws to Secure Junction Box Cover; Mounted to Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
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9. New Circuit NO. 2: New 2" Galvanized Rigid Steel Conduit with PVC Coating, to Adjacent Junction Box; Surface Mounted on Existing Concrete Barrier per Structural Details. See Structural Sheet S-1.
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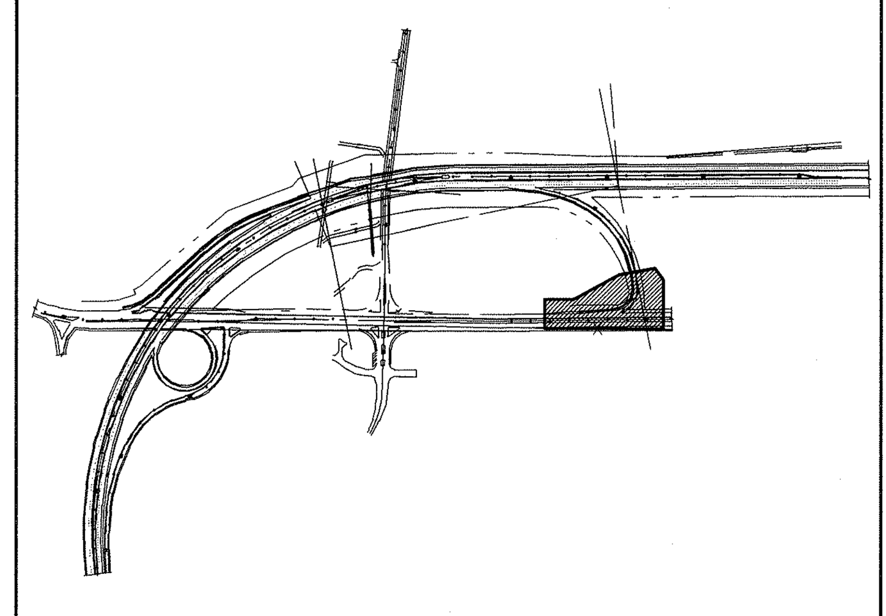
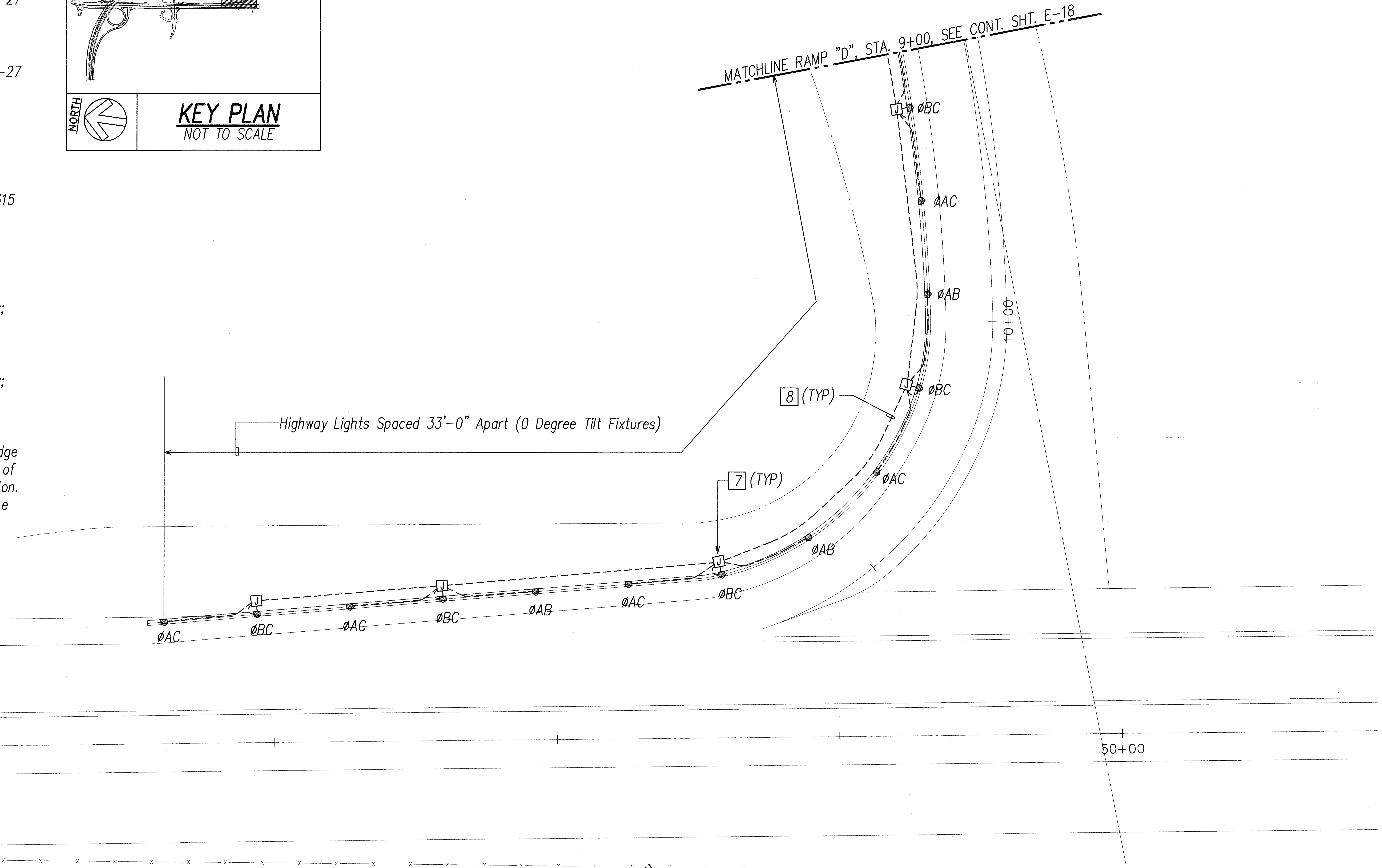
11. Existing Highway Sign Light Circuit to Remain and be Reconnected to New Lighting Circuit, to Maintain Existing Circuit Continuity.



KEY PLAN
NOT TO SCALE



NORTH

PARTIAL HIGHWAY LIGHTING NEW WORK PLAN VIII
SCALE: 1"=20'

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

LAST SAVE: 05/03/07 @ 05:58:11 BY: AM PLOT SC 1=20

RONALD N. S. HO & ASSOCIATES, INC.
Electrical Engineers

ANDREW I. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 4340-E
HAWAII, U.S.A.

05.22.08

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04.30.2010
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL HIGHWAY LIGHTING
NEW WORK PLAN VIII
H-2 RAIL LIGHT REPLACEMENT,
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05MR
Scale: AS NOTED Date: MAY 2008
SHEET No. E-19 OF 35 SHEETS