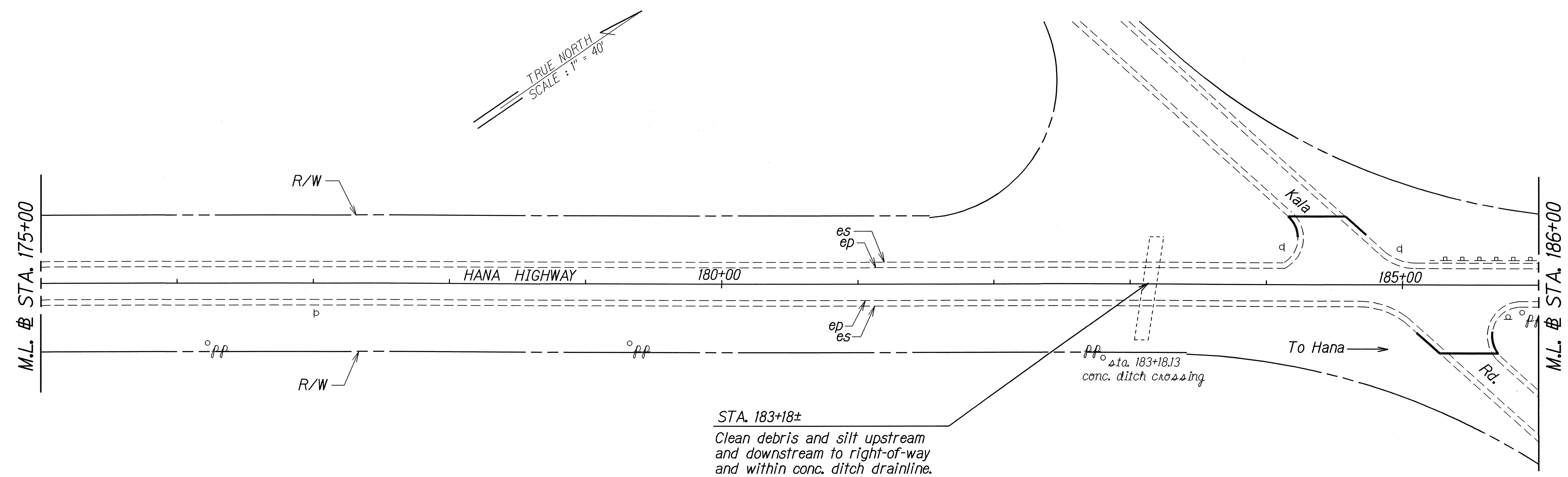
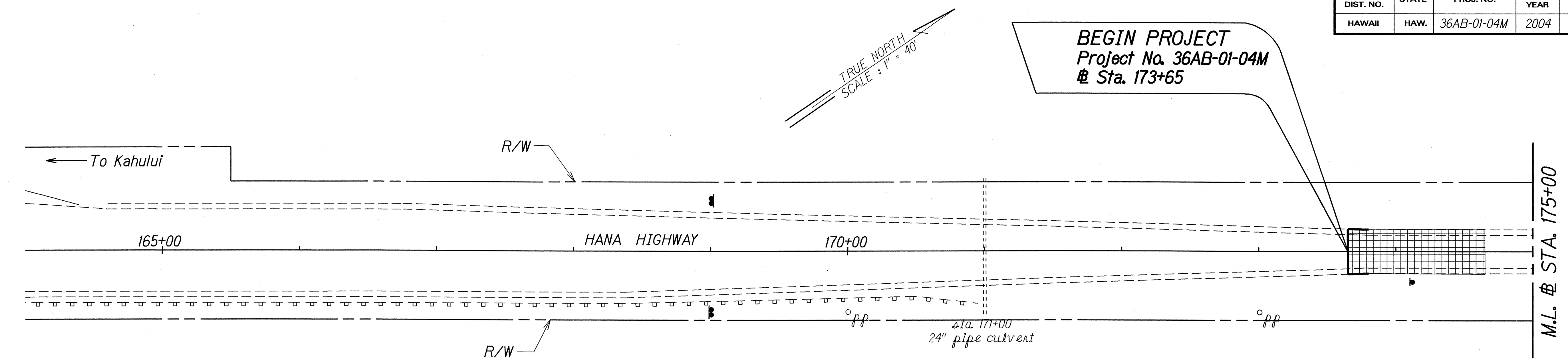


| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 20        | 54           |

**BEGIN PROJECT**  
Project No. 36AB-01-04M  
@ Sta. 173+65



|               |                   |       |
|---------------|-------------------|-------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE  |
| NOTE BOOK     | DESIGNED BY       | 12/03 |
| QUANTITIES BY | CHECKED BY        |       |
|               |                   |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

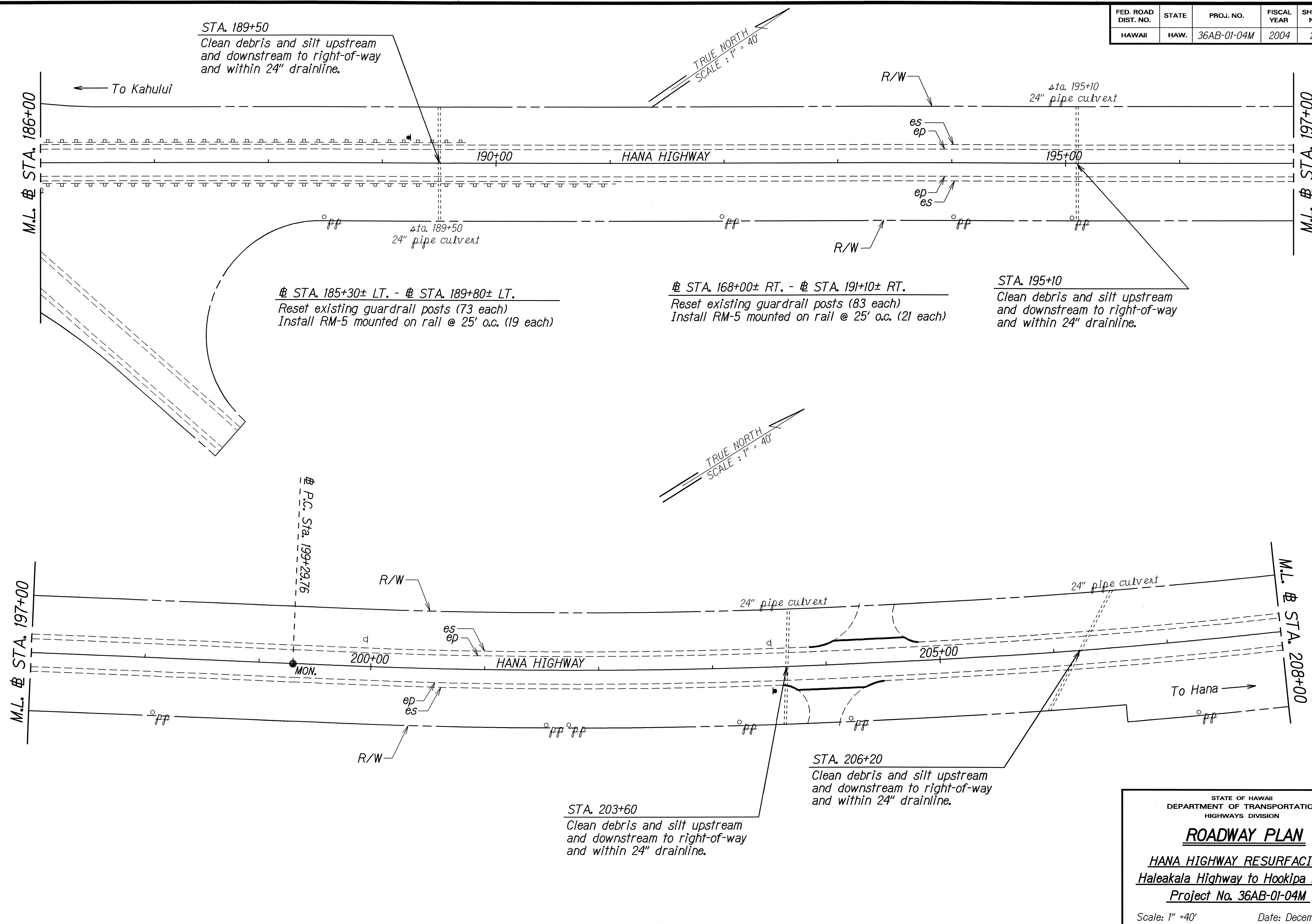
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'      Date: December, 2003

SHEET No. 1 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 21        | 54           |



|               |       |
|---------------|-------|
| ORIGINAL PLAN | DATE  |
| NOTE BOOK     | 12/03 |
| DESIGNED BY   |       |
| QUANTITIES BY |       |
| CHECKED BY    |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ROADWAY PLAN

HANA HIGHWAY RESURFACING

Haleakala Highway to Hookipa Park

Project No. 36AB-01-04M

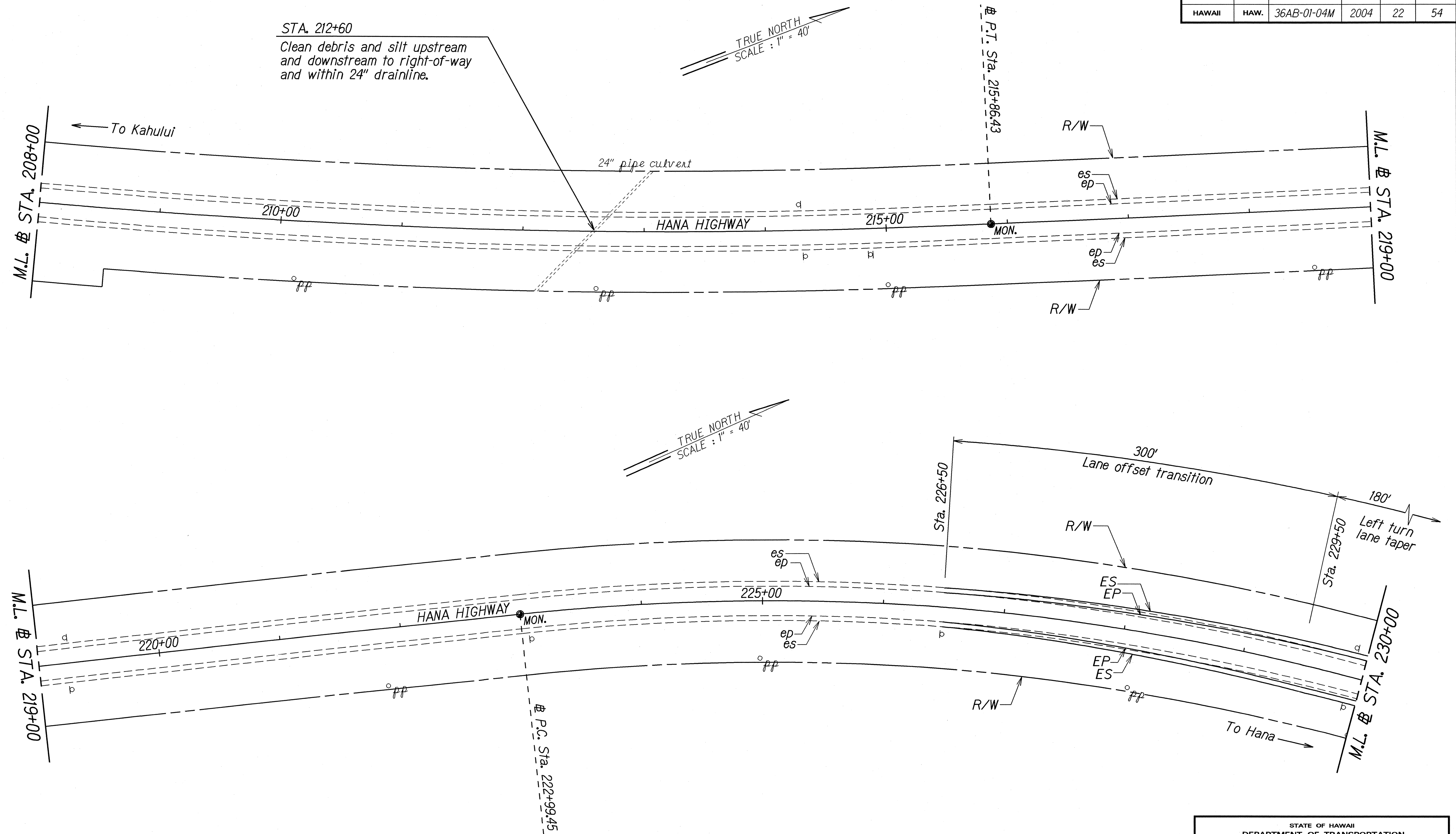
Scale: 1" = 40'

Date: December, 2003

SHEET No. 2 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 22        | 54           |



|                   |      |       |
|-------------------|------|-------|
| ORIGINAL PLAN     | DATE | 12/03 |
| SURVEY PLOTTED BY |      |       |
| DRAWN BY          |      |       |
| TRACED BY         |      |       |
| QUANTITIES BY     |      |       |
| CHECKED BY        |      |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

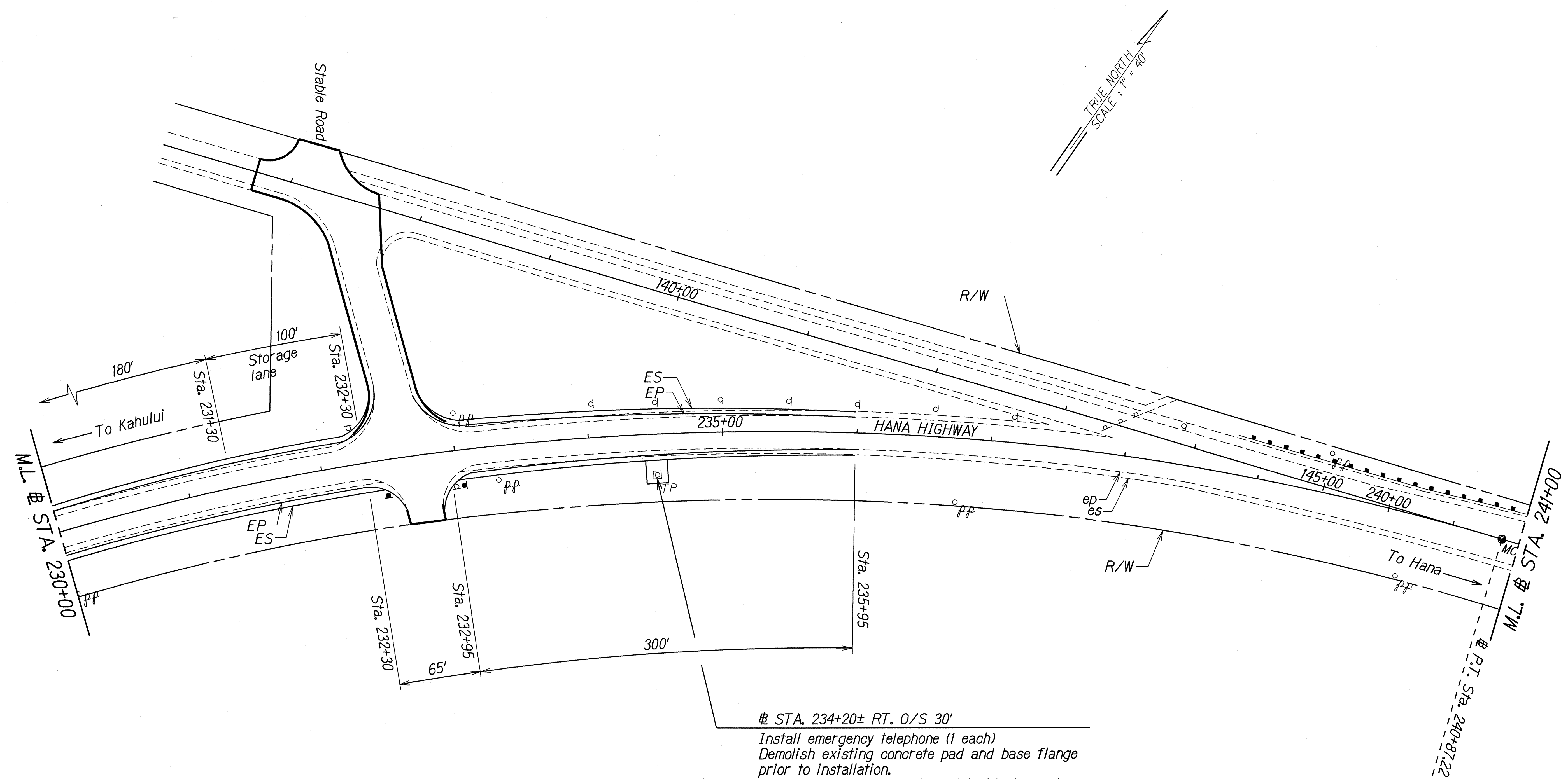
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'  
Date: December, 2003

SHEET No. 3 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 23        | 54           |



# STA. 234+20± RT. 0/S 30'  
 Install emergency telephone (1 each)  
 Demolish existing concrete pad and base flange  
 prior to installation.  
 Demolition shall be considered incidental under  
 this item. See Detail Sht. No. 18 & 19.

|                   |      |       |
|-------------------|------|-------|
| ORIGINAL PLAN     | DATE | 12/03 |
| SURVEY PLOTTED BY |      |       |
| DESIGNED BY       |      |       |
| TRACED BY         |      |       |
| QUANTITIES BY     |      |       |
| CHECKED BY        |      |       |

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**ROADWAY PLAN**

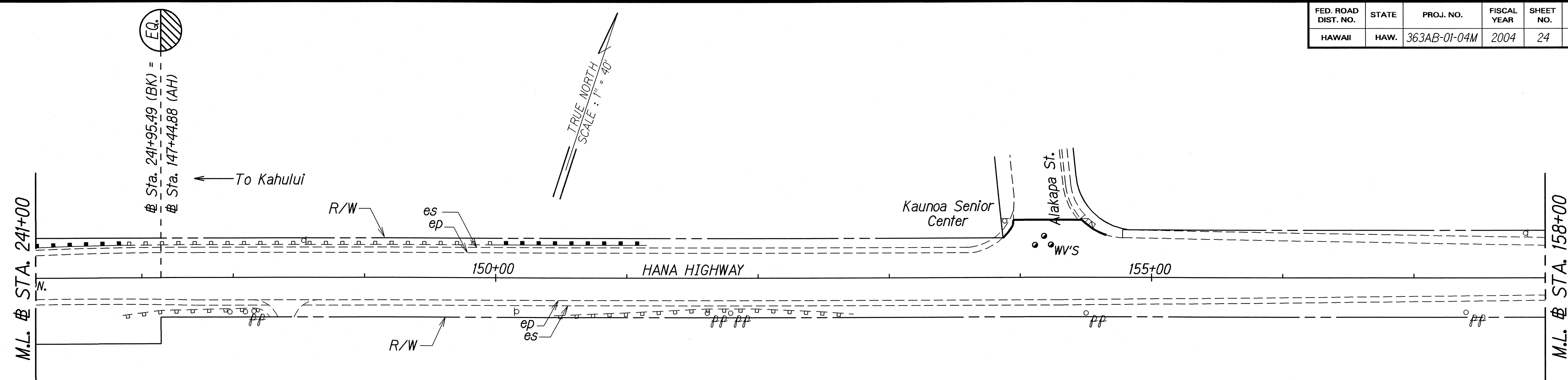
**HANA HIGHWAY RESURFACING**  
 Haleakala Highway to Hookipa Park  
 Project No. 36AB-01-04M

Scale: 1" = 40'      Date: December, 2003

SHEET No. 4 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 363AB-01-04M | 2004        | 24        | 54           |

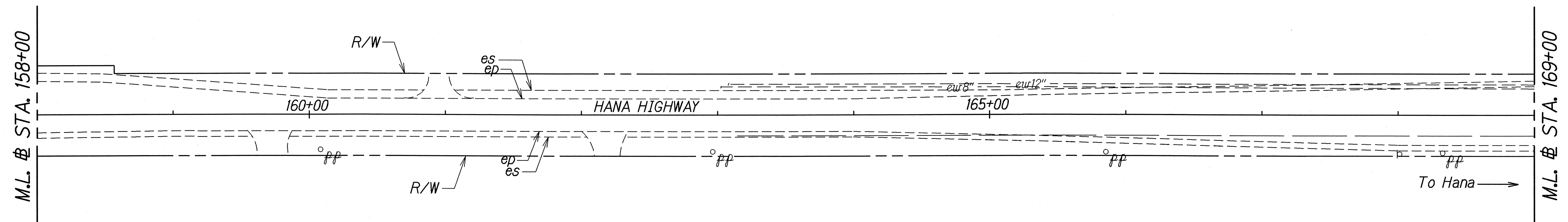


EQ. STA. 241+75± RT. - EQ. STA. 148+20± RT. (EQ. STA.)  
 Reset existing guardrail posts (17 each)  
 Install RM-5 mounted on rail @ 25' o.c. (5 each)

EQ. STA. 150+40± RT. - EQ. STA. 152+60± RT.  
 Reset existing guardrail posts (36 each)  
 Install RM-5 mounted on rail @ 25' o.c. (10 each)

EQ. STA. 241+81± LT. - EQ. STA. 150+35± LT. (EQ. STA.)  
 Trailing End - Demolish existing end flare terminal  
 and extend 250 L.F. guardrail Type 3 - WBeam  
 w/Strong Post. Install Type ET 2000 - (1 each)

Approach End - Demolish existing end flare terminal  
 and extend 80 L.F. guardrail Type 3 - WBeam  
 w/Strong Post. Install Type ET 2000 (1 each)  
 Reset existing guardrail posts - (34 each)  
 Install RM-5 mounted on rail @ 25' o.c. (22 each)



|               |                   |       |
|---------------|-------------------|-------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE  |
| NOTED BY      | DRAWN BY          | 12/03 |
| QUANTITIES BY | TRACED BY         |       |
| CHECKED BY    | NOTED BY          |       |
|               | QUANTITIES BY     |       |
|               | CHECKED BY        |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

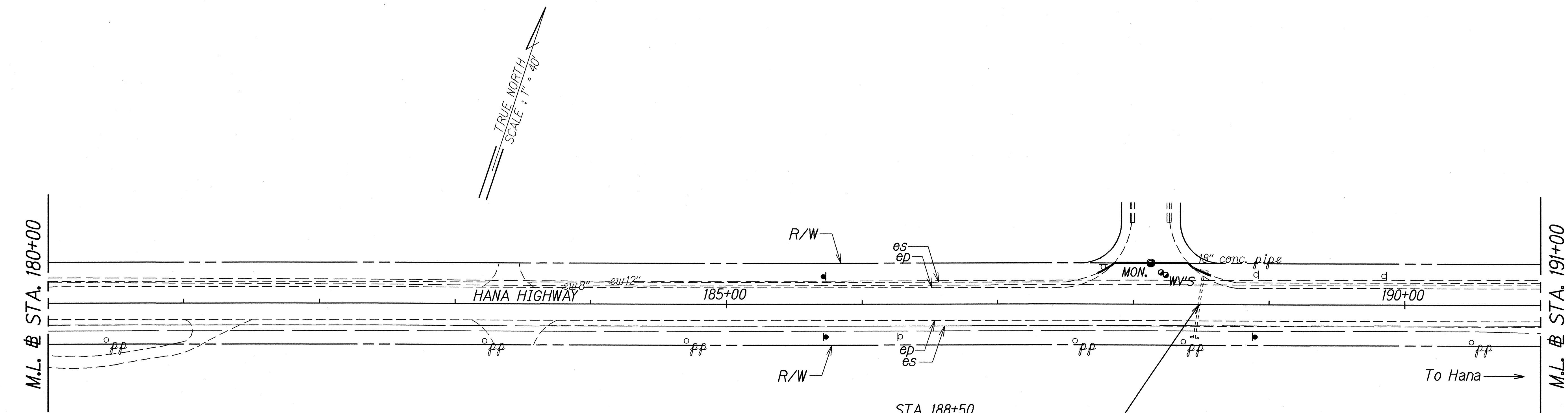
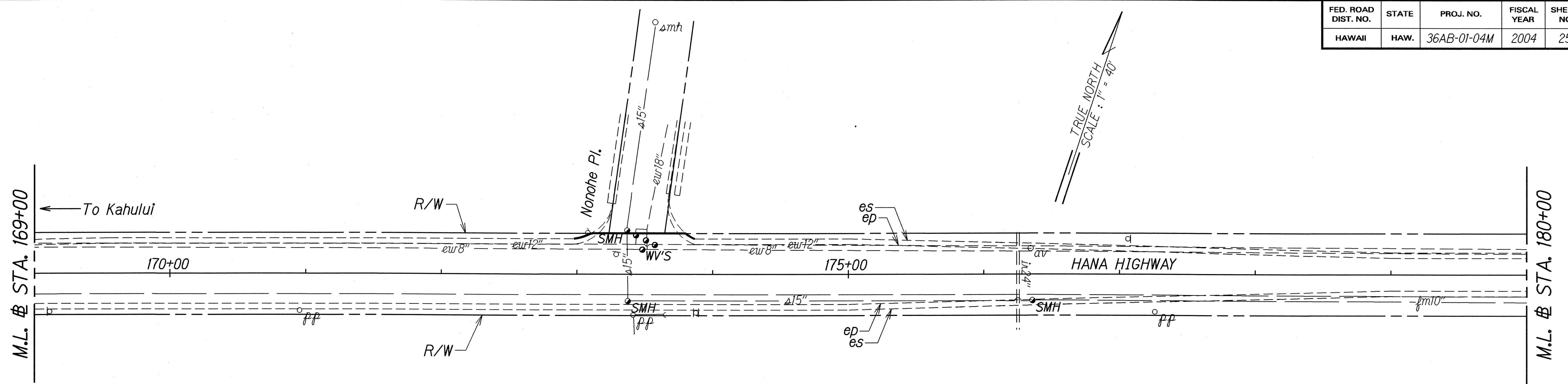
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'      Date: December, 2003

SHEET No. 5 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 25        | 54           |



STA. 188+50  
Clean debris and silt upstream  
and downstream to right-of-way  
and within 18" drainline.

|               |                   |          |
|---------------|-------------------|----------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE     |
| NOTE BOOK     | DESIGNED BY       | 10/10/03 |
| 100% PAY      | CHECKED BY        | 10/10/03 |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

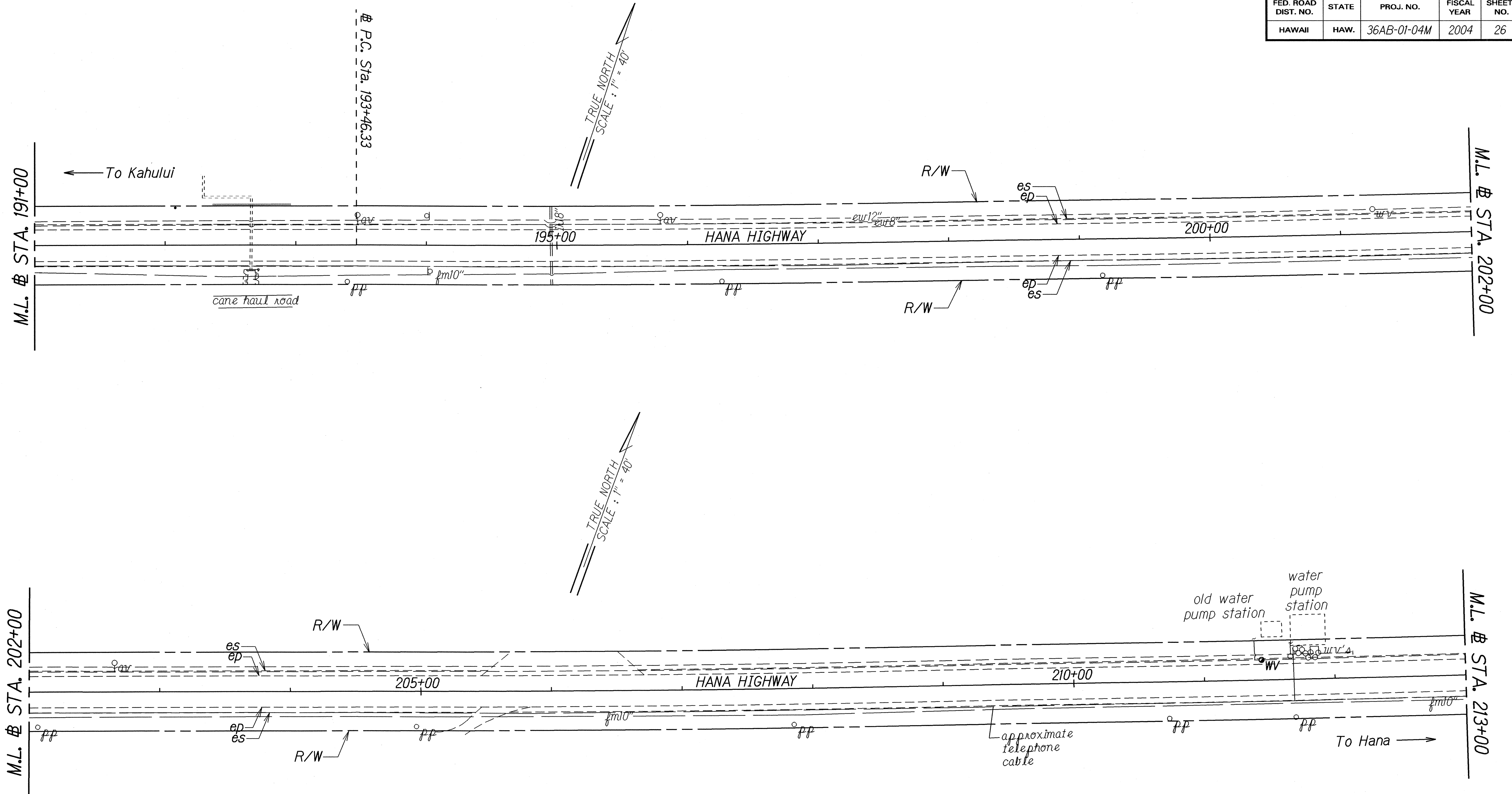
**HANA HIGHWAY RESURFACING**  
Haleakala Highway to Hookipa Park  
Project No. 36AB-01-04M

Scale: 1" = 40' Date: December, 2003

SHEET No. 6 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 26        | 54           |



|               |                   |            |
|---------------|-------------------|------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE       |
| NOTE BOOK     | DESIGNED BY       | 2003.12.22 |
| 100/10.149    | QUANTITIES BY     |            |
| 100/10.149    | CHECKED BY        |            |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

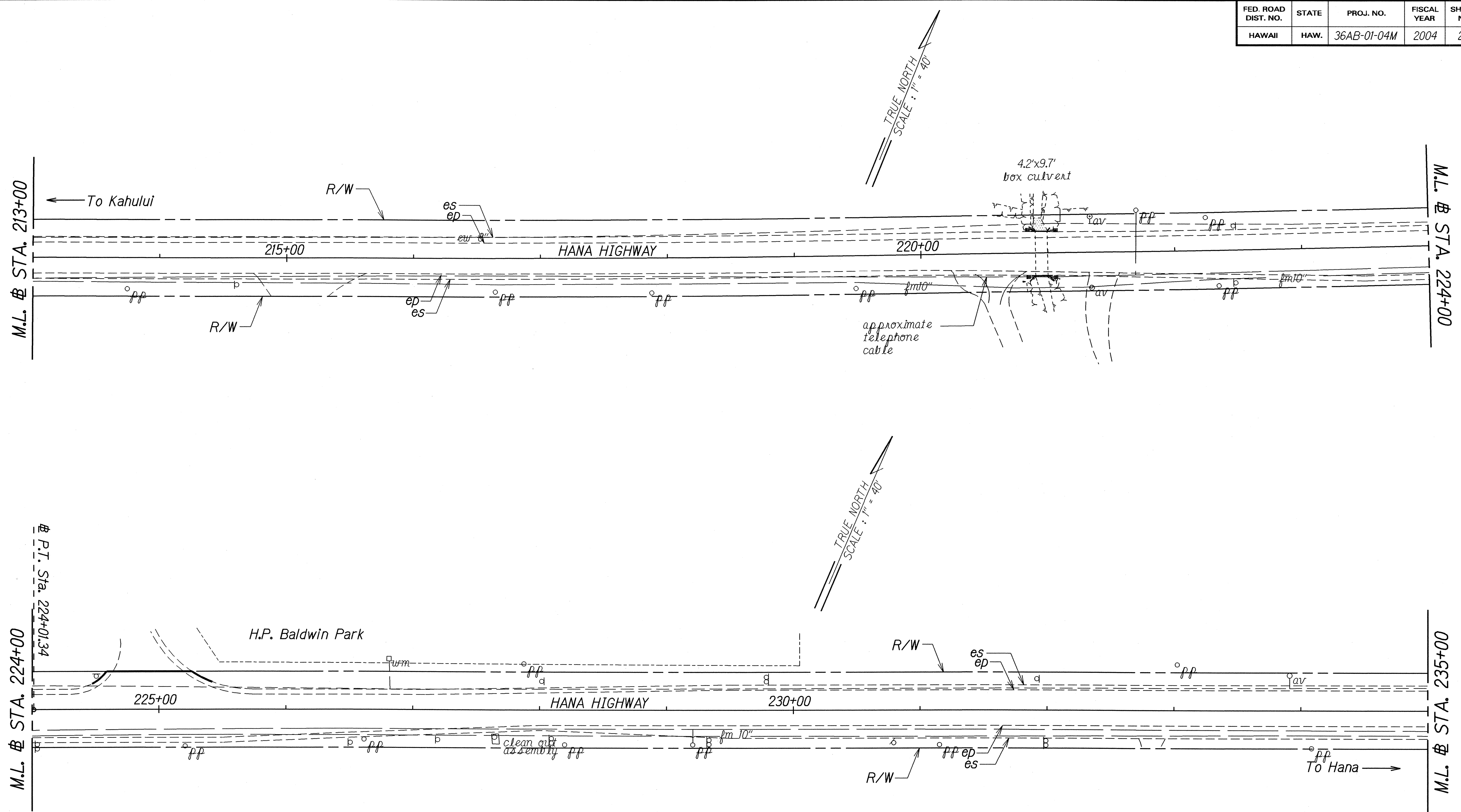
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40' Date: December, 2003

SHEET No. 7 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 27        | 54           |



|               |                   |          |
|---------------|-------------------|----------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE     |
| NOTE BOOK     | DESIGNED BY       | 10/10/03 |
| QUANTITIES BY | CHECKED BY        |          |
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**ROADWAY PLAN**

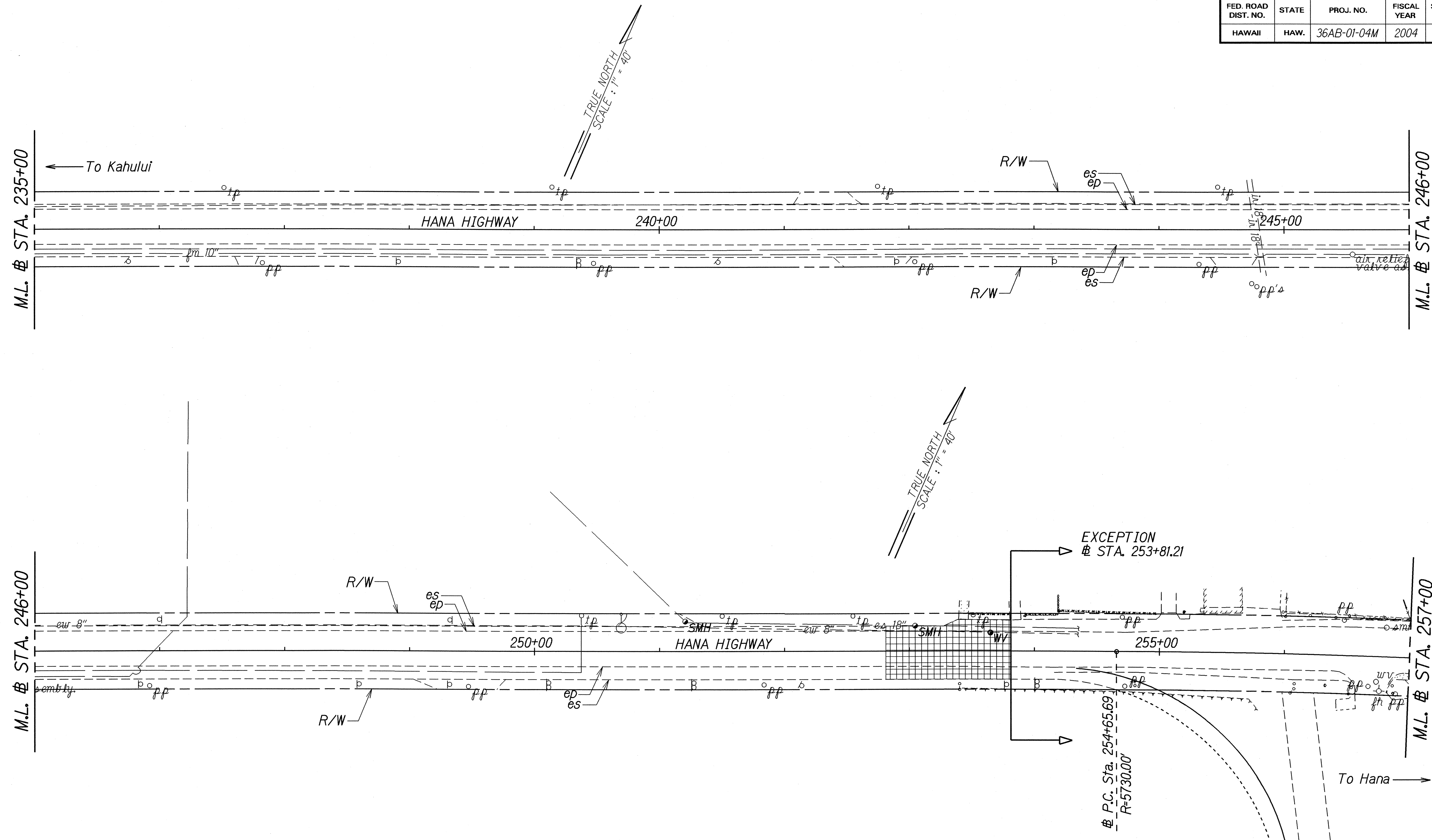
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40' Date: December, 2003

SHEET No. 8 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 28        | 54           |



|                   |      |
|-------------------|------|
| ORIGINAL PLAN     | DATE |
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          | DATE |
| DESIGNED BY       | DATE |
| CHECKED BY        | DATE |
| NOTED BY          | DATE |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

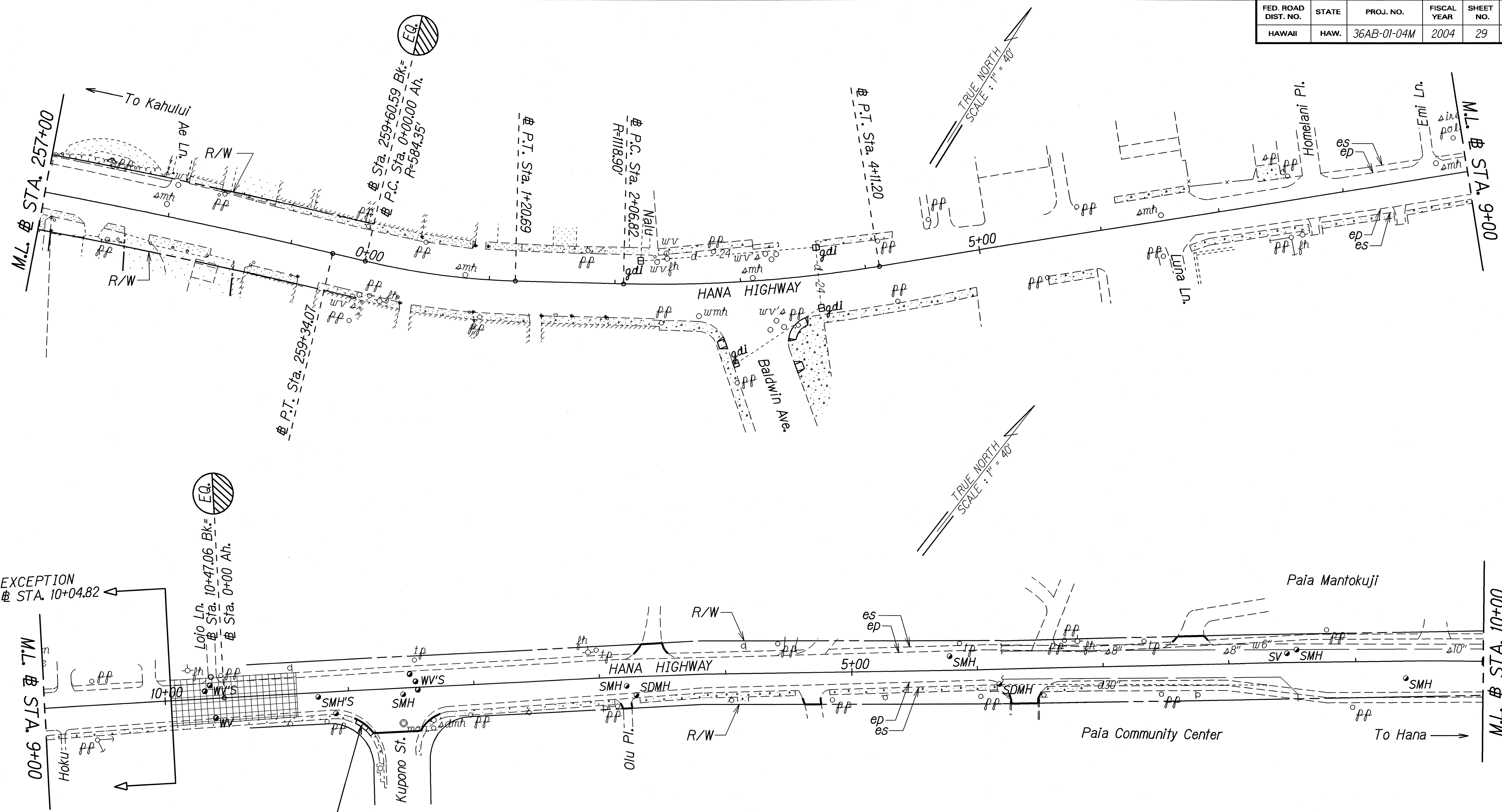
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'      Date: December, 2003

SHEET No. 9 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 29        | 54           |



EXCEPTION  
# STA. 10+04.82

# STA. 1+00 O/S 16' RT.  
Reconstruct existing curb ramp  
Install curb ramp Modified Type B.  
See Detail Sht. No. 14

STA. 0+60± RT. - STA. 12+60± RT.  
Cold plane existing A.C. pavement along concrete gutter  
& driveway. See Detail Sht. No. 12.

|               |                   |       |
|---------------|-------------------|-------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE  |
| NOTE BOOK     | DRAWN BY          | 12/03 |
| LOGS          | DESIGNED BY       |       |
|               | CHECKED BY        |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

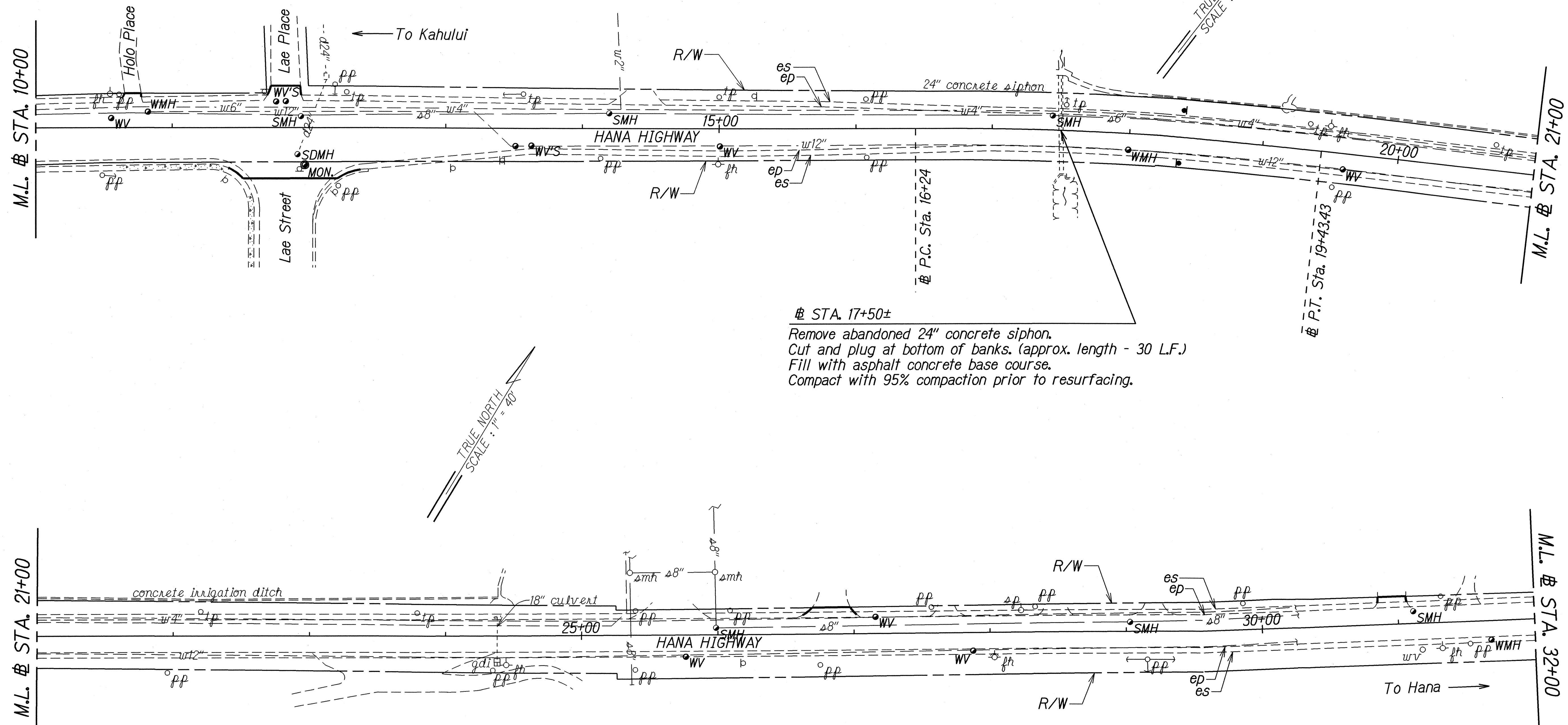
**HANA HIGHWAY RESURFACING**  
Haleakala Highway to Hookipa Park  
Project No. 36AB-01-04M

Scale: 1" = 40'      Date: December, 2003

SHEET No. 10 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 30        | 54           |



# STA. 17+50±  
 Remove abandoned 24" concrete siphon.  
 Cut and plug at bottom of banks. (approx. length - 30 L.F.)  
 Fill with asphalt concrete base course.  
 Compact with 95% compaction prior to resurfacing.

|               |                   |       |
|---------------|-------------------|-------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE  |
| NOTE BOOK     | DESIGNED BY       | 12/03 |
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STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**ROADWAY PLAN**

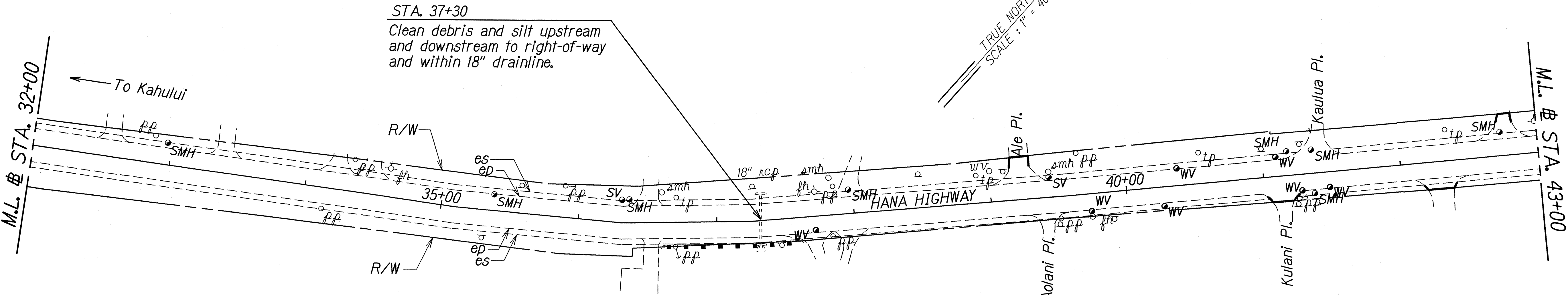
**HANA HIGHWAY RESURFACING**  
 Haleakala Highway to Hookipa Park  
 Project No. 36AB-01-04M

Scale: 1" = 40'      Date: December, 2003

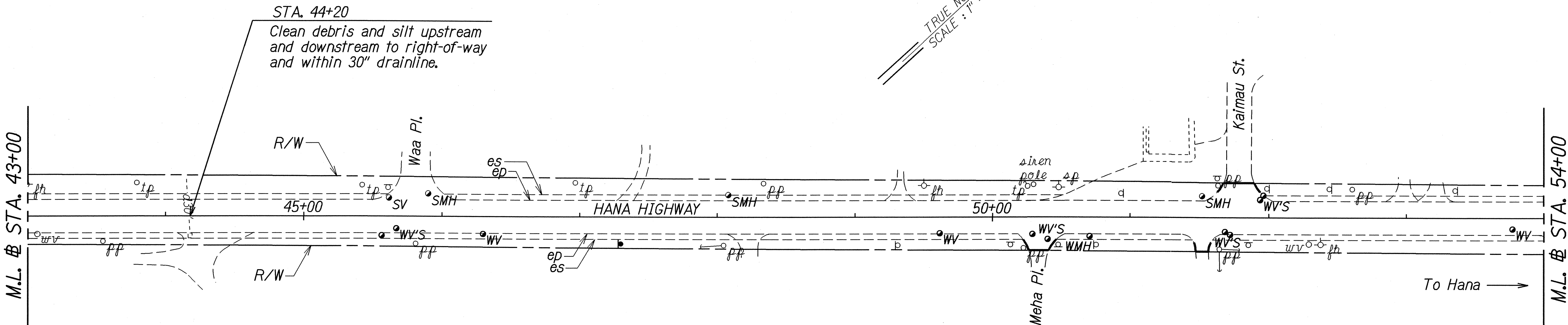
SHEET No. 11 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 31        | 54           |



STA. 36+60± RT. - STA. 37+60± RT.  
 Install 100 L.F. guardrail Type 3 - WBeam w/Strong Post.  
 Approach & Trailing Ends - Modified Type "G"  
 Install RM-5 mounted on rail @ 25' o.c. - (5 each)



|               |                   |       |
|---------------|-------------------|-------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE  |
| NOTE BOOK     | DRAWN BY          | 12/03 |
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| checked by    | QUANTITIES BY     |       |
|               | CHECKED BY        |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'      Date: December, 2003

SHEET No. 12 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 32        | 54           |

STA. 430+65  
Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

STA. 430+65 RT.  
Construct asphalt concrete apron. See Detail Sht. No. 15. This work shall not be paid separately but considered incidental to Item No. 401.0400.

# STA. 426+10± LT. - # STA. 429+50± LT.  
Remove existing guardrail  
Install 290 L.F. guardrail Type 3 - WBeam  
Install RM-5 mounted on rail @ 25' o.c. (15 each)  
Approach Terminal End - Install Type "A"  
Trailing End - Install Modified "G"

TRUE NORTH SCALE : 1" = 40'

M.L. # STA. 54+00  
Ulumaka Pl.  
To Kahului

R/W

SMH

Kaiāe Lane

P.C. Sta. 58+30.43  
R=700.00'

P.T. Sta. 60+23.23

Kaiholo Pl.

WV

es ep

pp

430+00

sta. 430+65  
24" rcp

M.L. # STA. 431+00

HANA HIGHWAY

435+00

440+00

440+85

sta. 440+85  
24" rcp

3.5'x3.5'  
8" tile

To Hana →

M.L. # STA. 443+00

# STA. 430+00± LT. - # STA. 441+25± LT.  
Reset existing guardrail posts (181 each)  
Install RM-5 mounted on rail @ 25' o.c. (46 each)

STA. 440+85  
Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

TRUE NORTH SCALE : 1" = 40'

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**

Scale: 1" = 40'      Date: December, 2003

SHEET No. 13 OF 15 SHEETS

|                     |       |             |             |           |              |
|---------------------|-------|-------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 32        | 54           |

STA. 430+65  
 Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

STA. 430+65 RT.  
 Construct asphalt concrete apron. See Detail Sht. No. 15. This work shall not be paid separately but considered incidental to Item No. 401.0400.

STA. 426+10± LT. - STA. 429+50± LT.  
 Remove existing guardrail  
 Install 290 L.F. guardrail Type 3 - WBeam  
 Install RM-5 mounted on rail @ 25' o.c. (15 each)  
 Approach Terminal End - Install Type "A"  
 Trailing End - Install Modified "G"

STA. 440+85  
 Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

STA. 430+00± LT. - STA. 441+25± LT.  
 Reset existing guardrail posts (181 each)  
 Install RM-5 mounted on rail @ 25' o.c. (46 each)

HANA HIGHWAY  
 KAIAE LANE  
 KAIHOLA PI.  
 ULUMAII PI.  
 HOLUA PI.  
 TRUE NORTH  
 SCALE: 1" = 40'

STA. 430+00  
 STA. 443+00  
 To Kahului  
 To Hana

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**ROADWAY PLAN**  
 HANA HIGHWAY RESURFACING  
 Haleakala Highway to Hookipa Park  
 Project No. 36AB-01-04M  
 Scale: 1" = 40' Date: December, 2003  
 SHEET No. 13 OF 15 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 32        | 54           |

**STA. 430+65**  
 Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

**STA. 430+65 RT.**  
 Construct asphalt concrete apron. See Detail Sht. No. 15. This work shall not be paid separately but considered incidental to Item No. 401.0400.

**STA. 426+10± LT. - STA. 429+50± LT.**  
 Remove existing guardrail  
 Install 290 L.F. guardrail Type 3 - WBeam  
 Install RM-5 mounted on rail @ 25' o.c. (15 each)  
 Approach Terminal End - Install Type "A"  
 Trailing End - Install Modified "G"

**STA. 440+85**  
 Clean debris and silt upstream and downstream to right-of-way and within 24" drainline.

**STA. 430+00± LT. - STA. 441+25± LT.**  
 Reset existing guardrail posts (181 each)  
 Install RM-5 mounted on rail @ 25' o.c. (46 each)

TRUE NORTH  
 SCALE: 1" = 40'

TRUE NORTH  
 SCALE: 1" = 40'

To Kahului  
 To Hana

M.L. # STA. 54+00  
 Ulumaika Pl.  
 R/W  
 SMH  
 Kaihoe Lane  
 P.C. Sta. 58+30.43  
 R=170.00'  
 P.T. Sta. 60+23.23  
 Kaihole Pl.  
 HANA HIGHWAY  
 435+00  
 440+00  
 440+85  
 443+00  
 M.L. # STA. 431+00

HANA HIGHWAY  
 435+00  
 440+00  
 440+85  
 443+00  
 M.L. # STA. 431+00

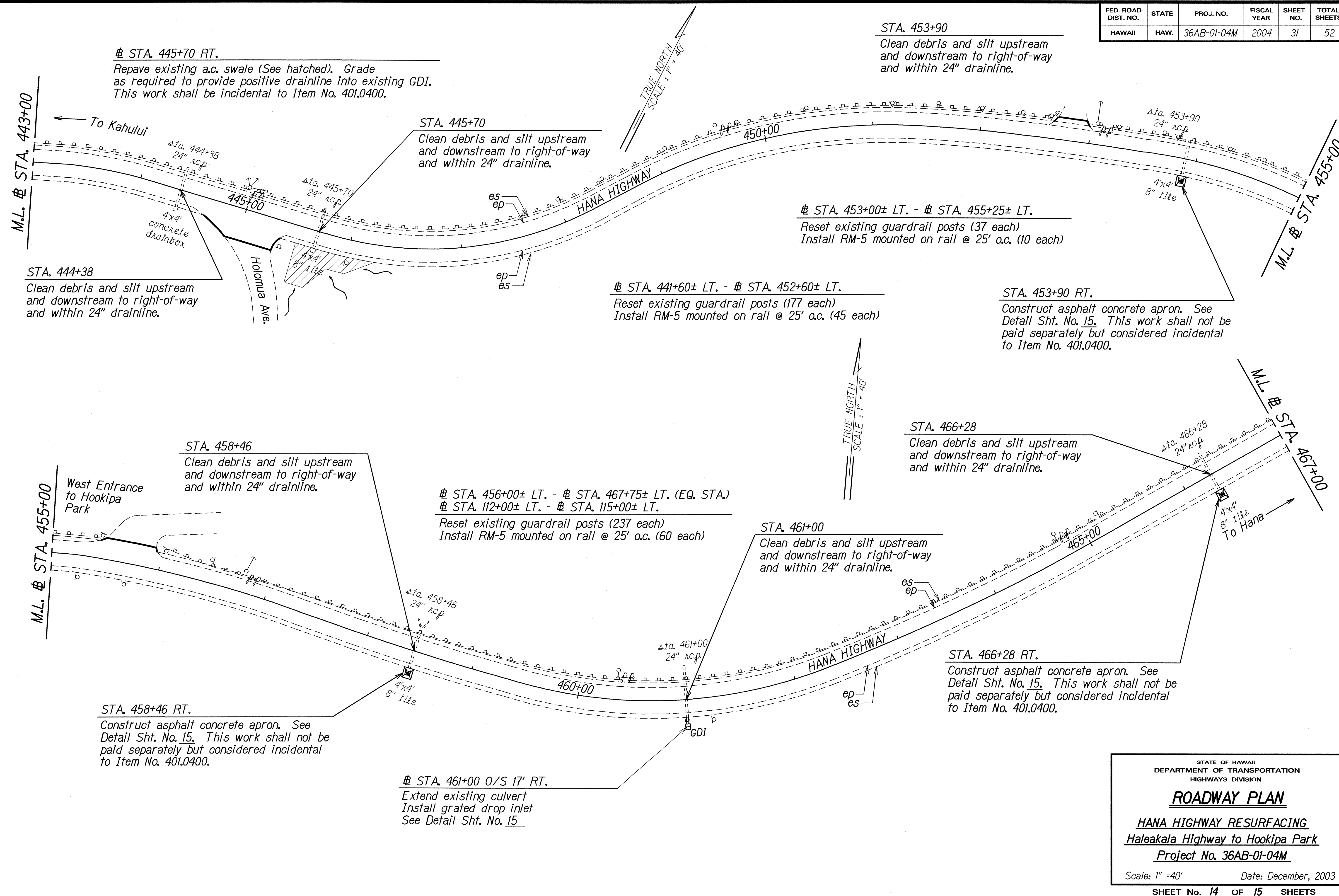
24" rcp  
 3.5'x3.5' 8" tile

STA. 430+65  
 STA. 430+65 RT.  
 STA. 426+10± LT. - STA. 429+50± LT.  
 STA. 440+85  
 STA. 430+00± LT. - STA. 441+25± LT.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**ROADWAY PLAN**  
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**  
 Scale: 1" = 40' Date: December, 2003  
 SHEET No. 13 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 31        | 52           |

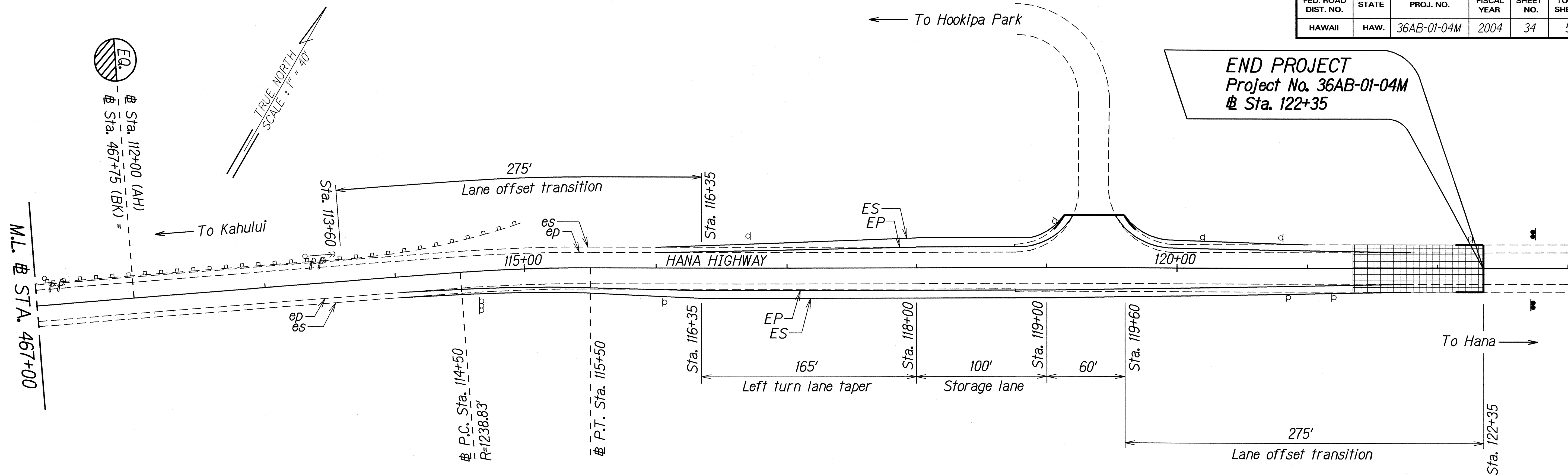


|               |             |       |
|---------------|-------------|-------|
| ORIGINAL PLAN | DATE        | 12/03 |
| DESIGNED BY   | DESIGNED BY |       |
| NOTED BY      | NOTED BY    |       |
| CHECKED BY    | CHECKED BY  |       |

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**ROADWAY PLAN**  
**HANA HIGHWAY RESURFACING**  
**Haleakala Highway to Hookipa Park**  
**Project No. 36AB-01-04M**  
 Scale: 1" = 40' Date: December, 2003  
 SHEET No. 14 OF 15 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 36AB-01-04M | 2004        | 34        | 54           |



|               |             |       |
|---------------|-------------|-------|
| ORIGINAL PLAN | DESIGNED BY | DATE  |
| NOTE BOOK     | TRACED BY   | 12/03 |
| QUANTITIES BY | DESIGNED BY |       |
| CHECKED BY    | TRACED BY   |       |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY PLAN

HANA HIGHWAY RESURFACING  
Haleakala Highway to Hookipa Park  
Project No. 36AB-01-04M

Scale: 1" = 40'  
Date: December, 2003

SHEET No. 15 OF 15 SHEETS