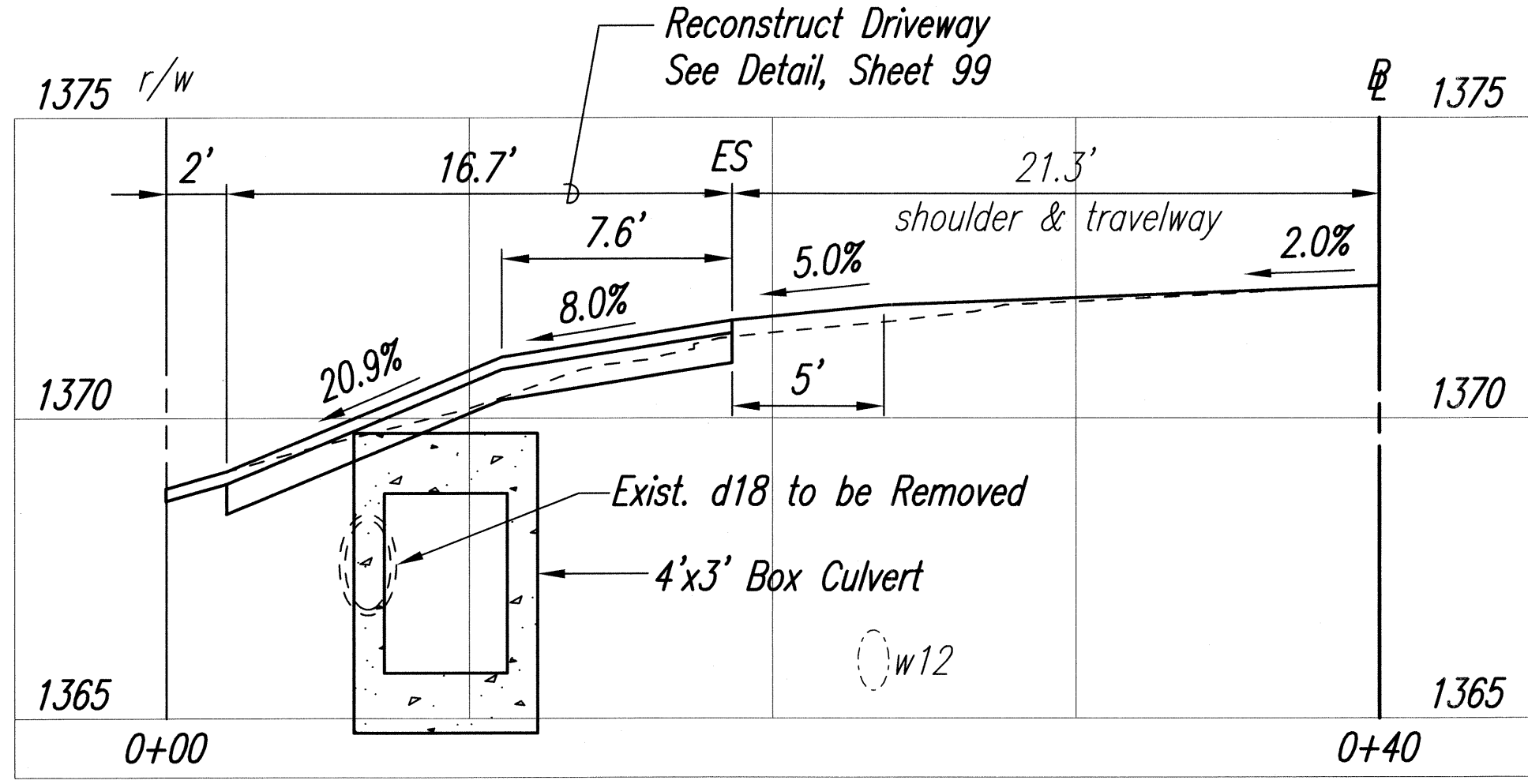
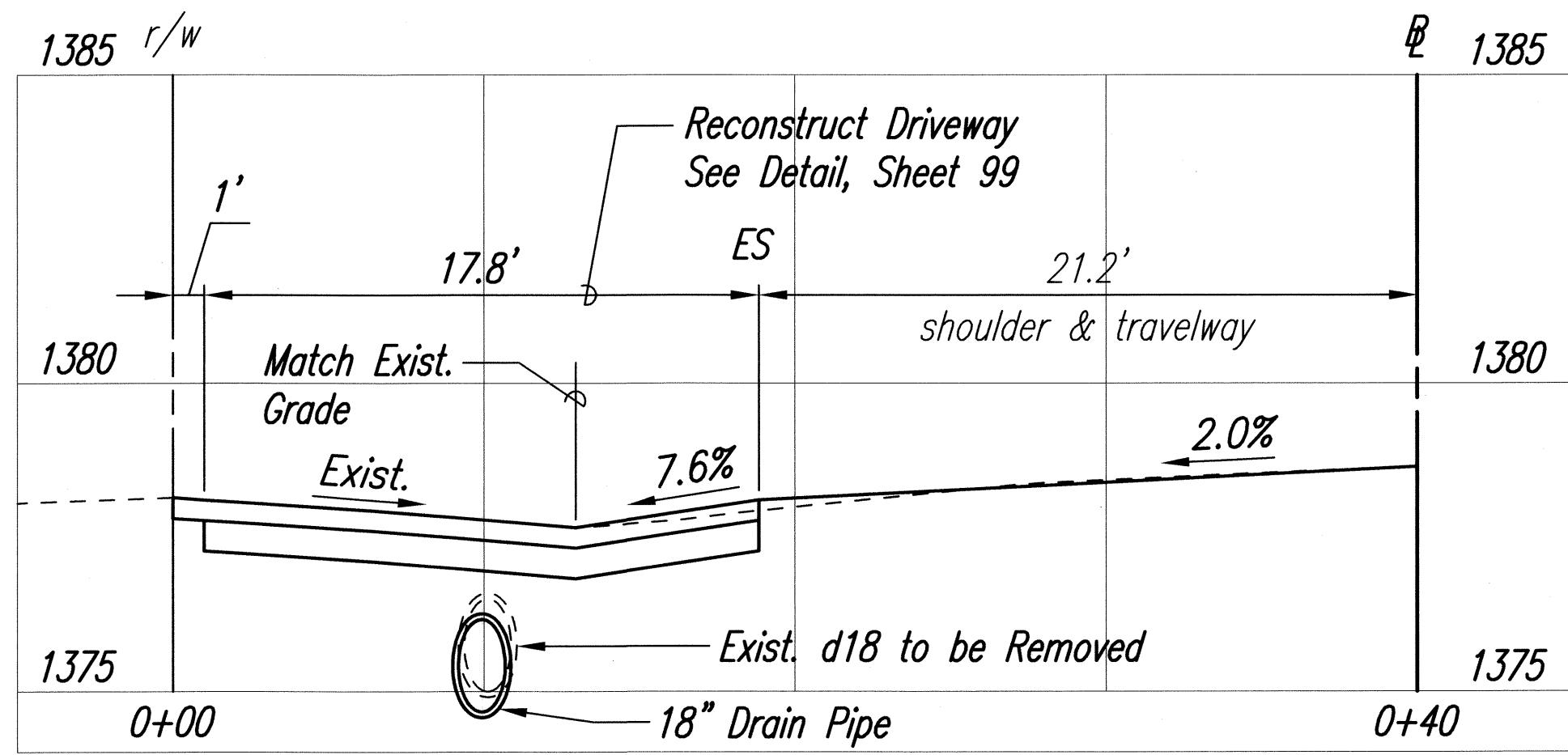
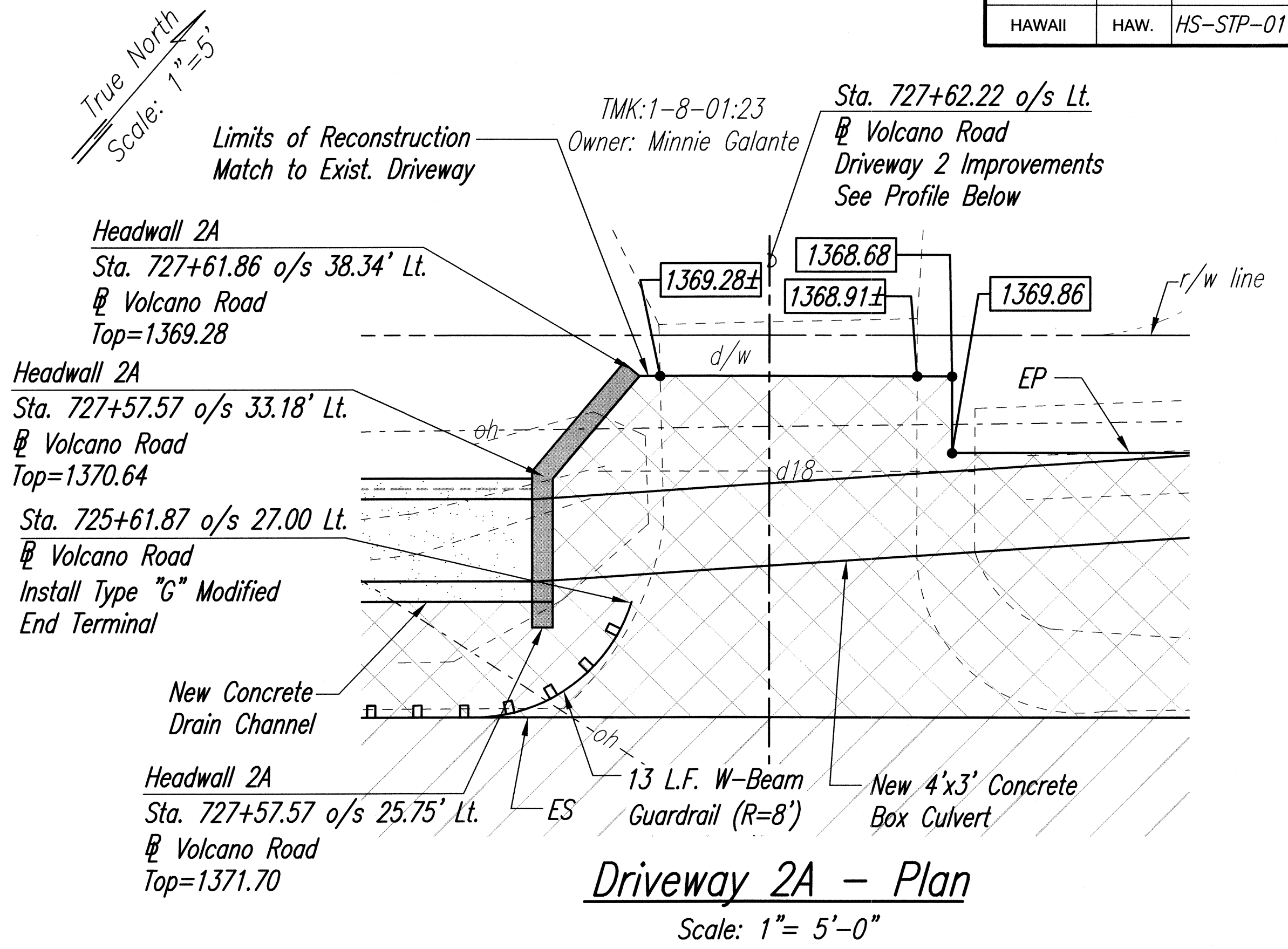
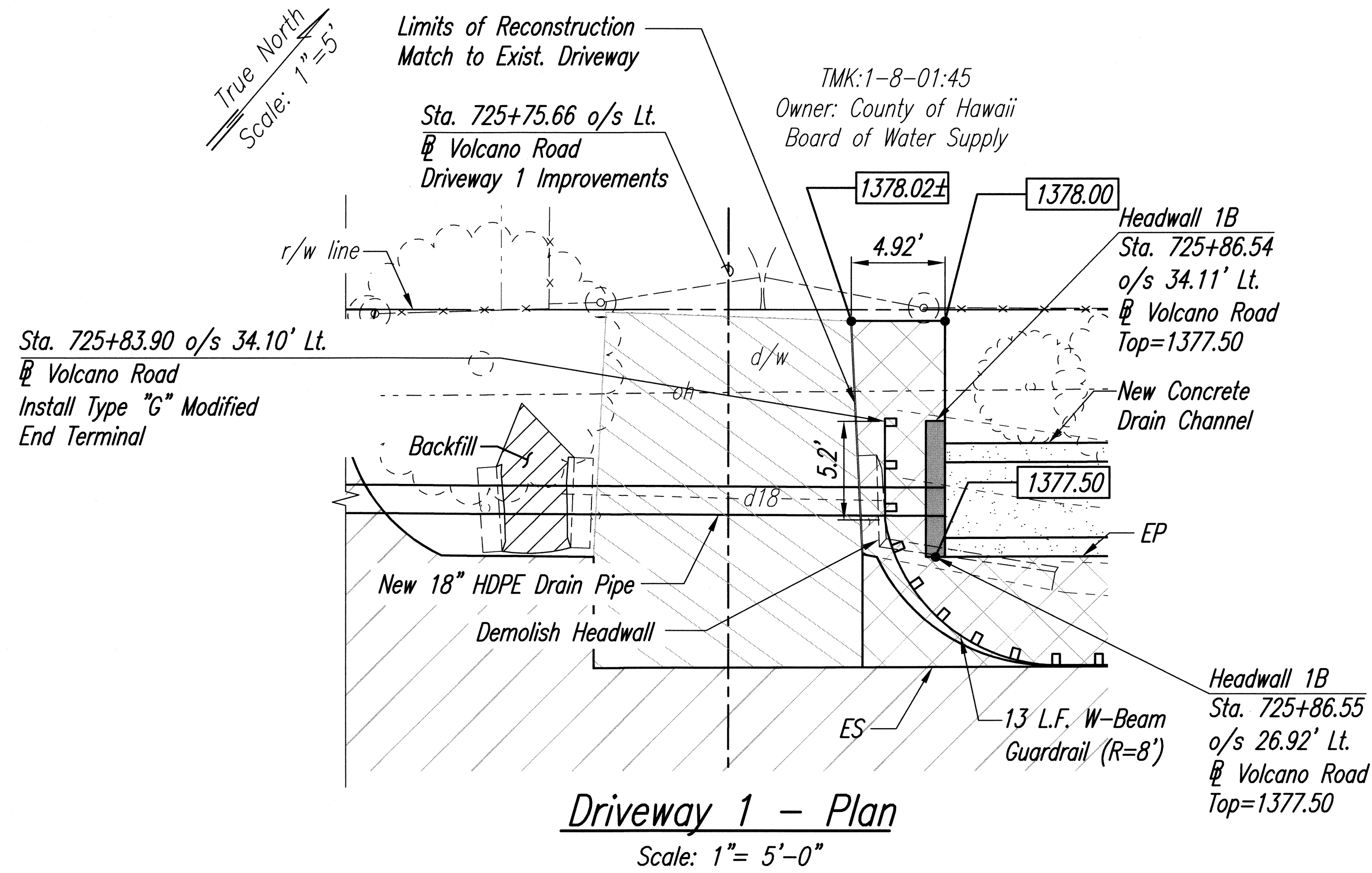
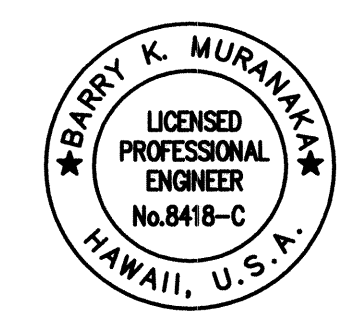
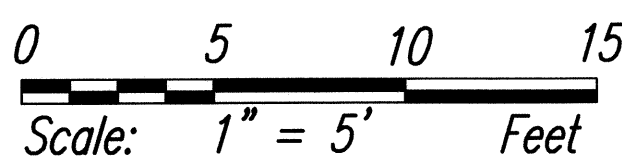


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	49	141



- Legend**
- Reconstructed AC Pav't.
 - Resurfaced Pav't.
 - Transition Pav't.
 - Exist. Drainline
 - New Headwall Structure
 - 1369.09 Finish Grade Elevation
 - 1369.28 Match to Exist. Ground, Contractor to Verify



LICENSE EXPIRES 4/30/12
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

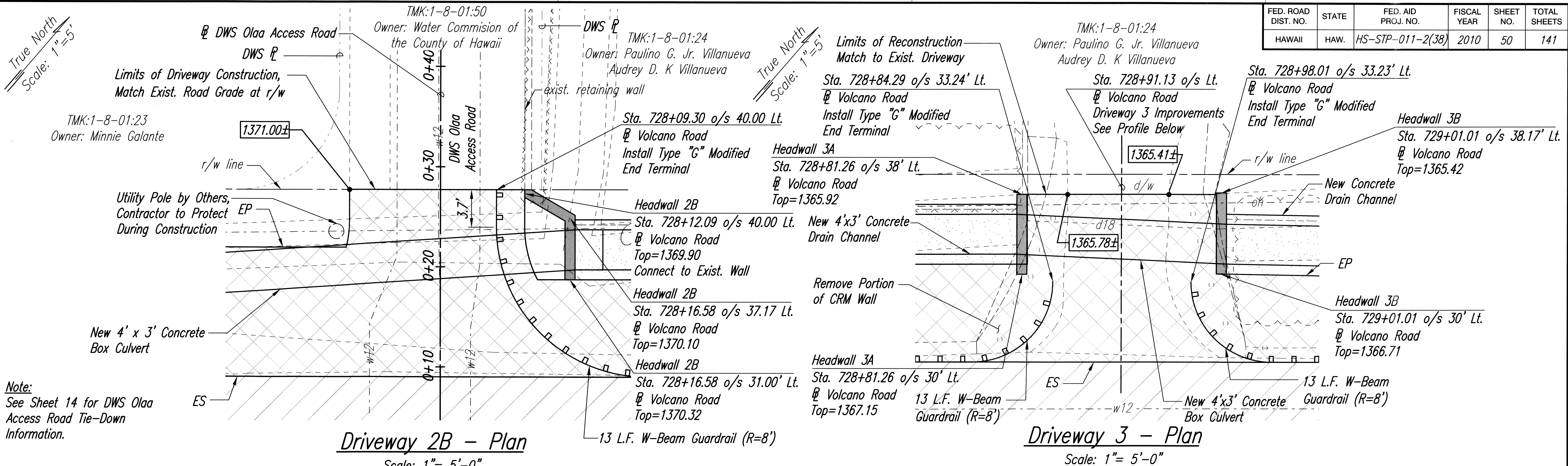
**Volcano Road Intersection and
Drainage Improvements**

Federal-Aid Project No. HS-STP-011-2(38)

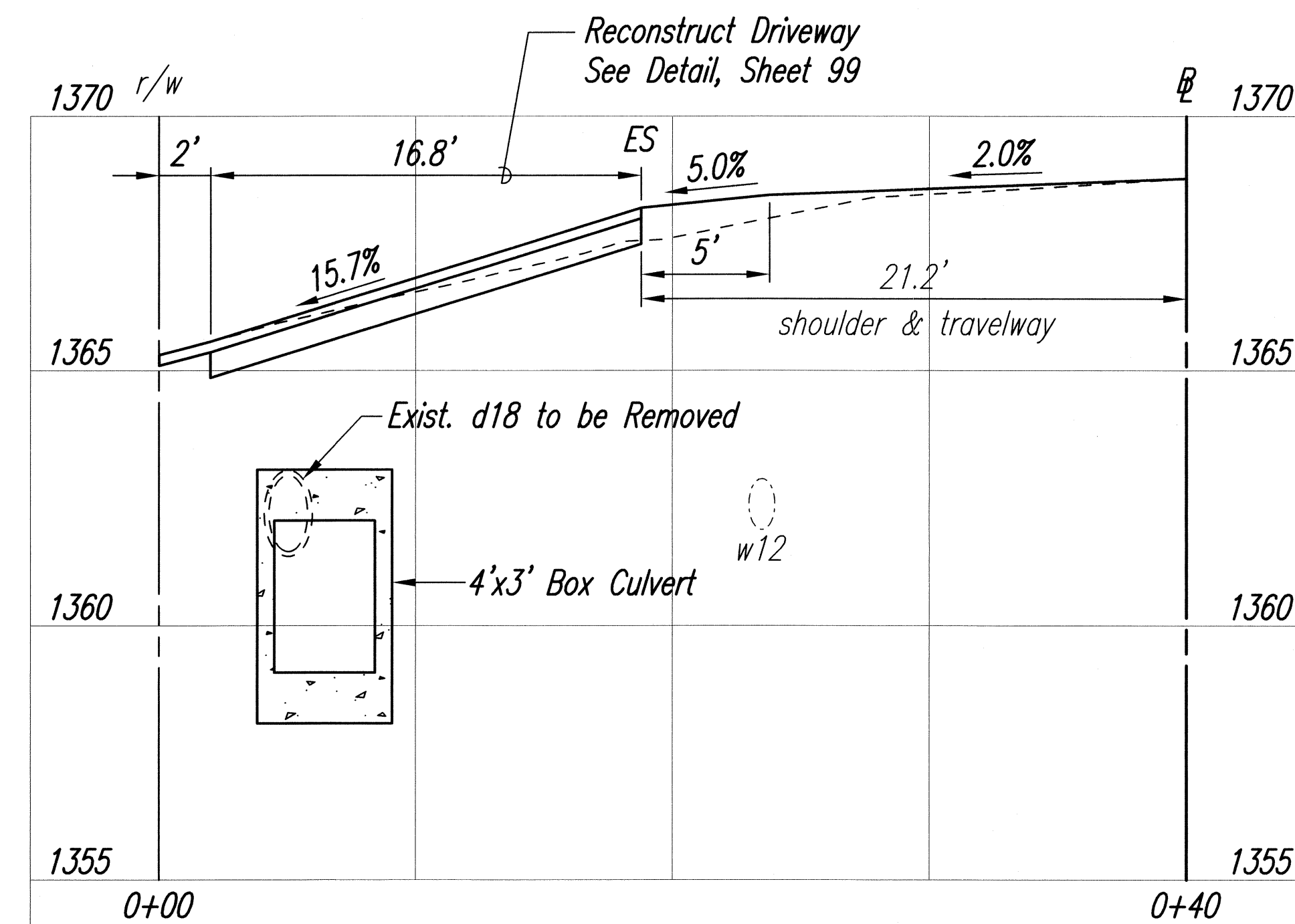
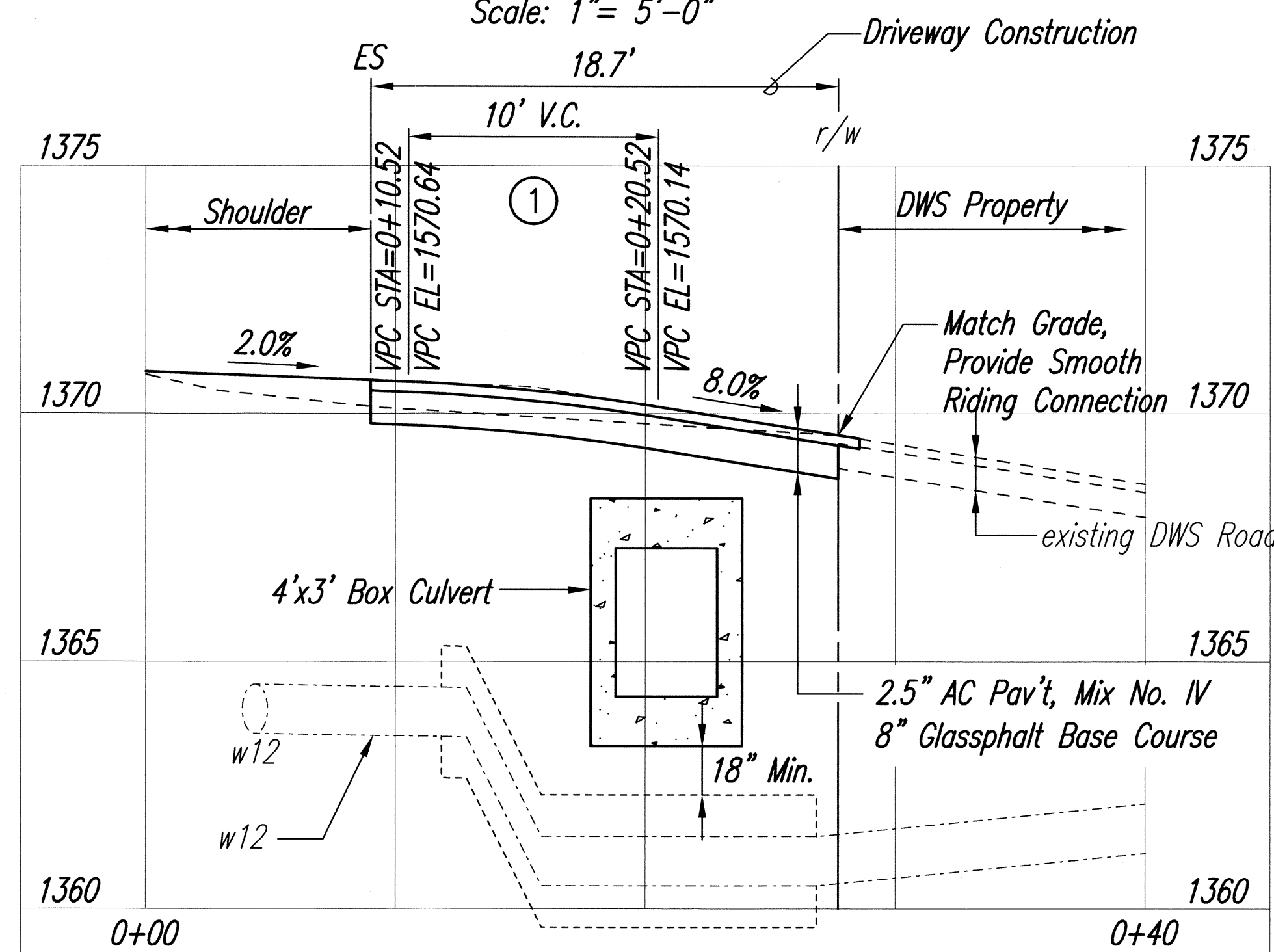
Scale: As Noted Date: November 2010

SHEET No. 1 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	50	141

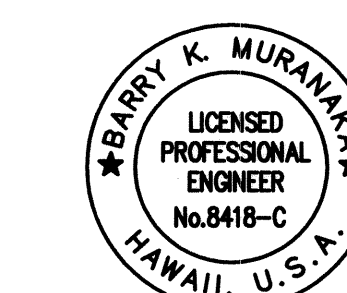


VERTICAL CURVE DATA	
	①
VPI STA	0+15.52
VPI EL	1370.54
g1	-2.0%
g2	-8.0%
LOC	10.0
K	1.67



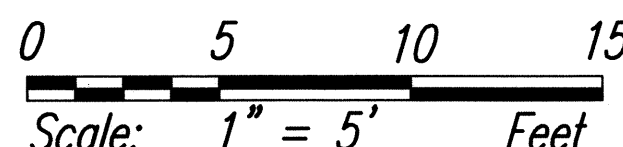
Legend

- Reconstructed AC Pav't.
- Resurfaced Pav't.
- Exist. Drainline
- New Headwall Structure
- 1369.09 Finish Grade Elevation
- 1369.28± Match to Exist. Ground, Contractor to Verify



LICENSE EXPIRES 4/30/12

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

Volcano Road Intersection and Drainage Improvements

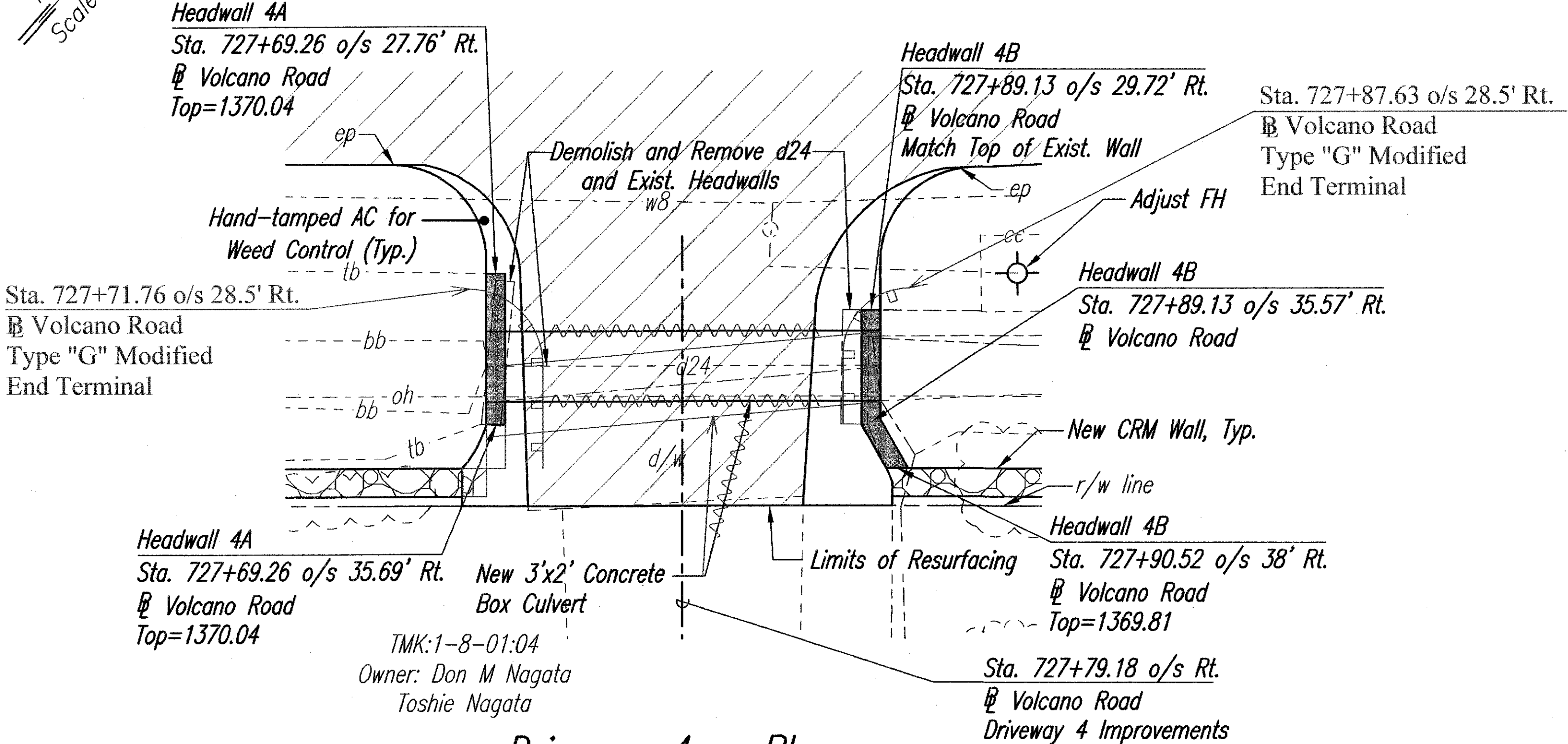
Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

SHEET No. 2 OF 12 SHEETS

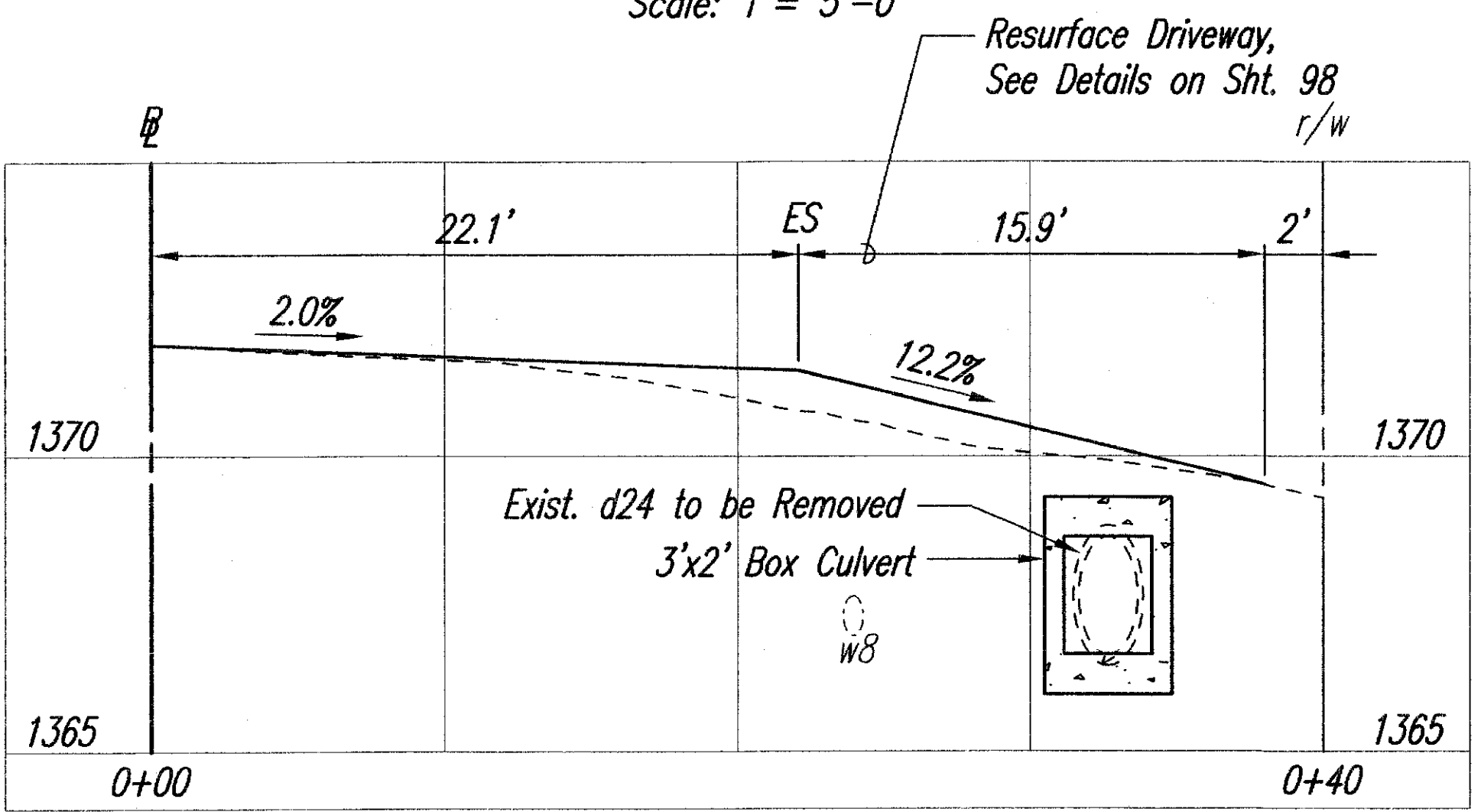
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	51	141

True North
Scale: 1"=5'



Driveway 4 - Plan

Scale: 1"= 5'-0"



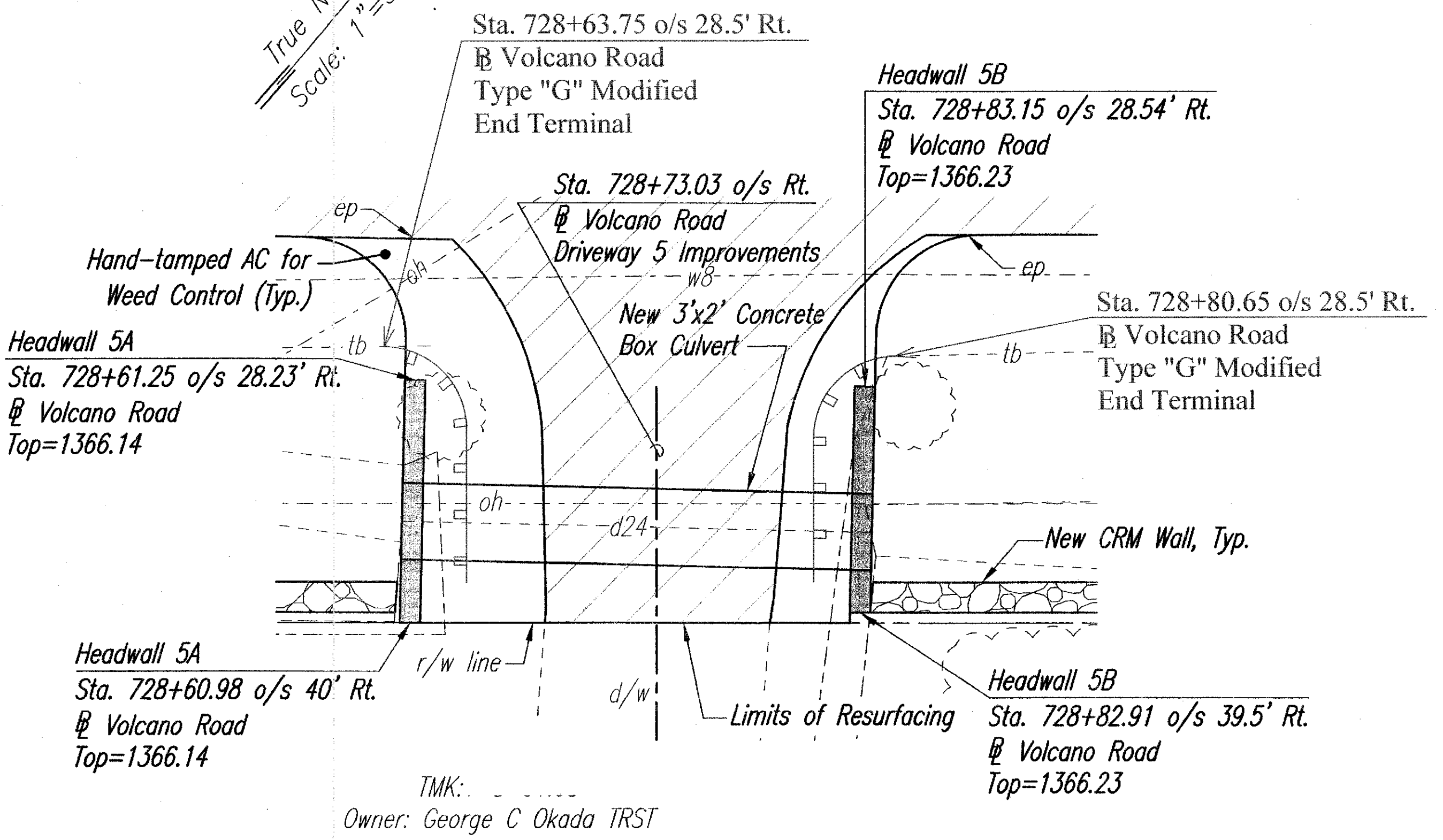
Driveway 4 - Profile

Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

Legend

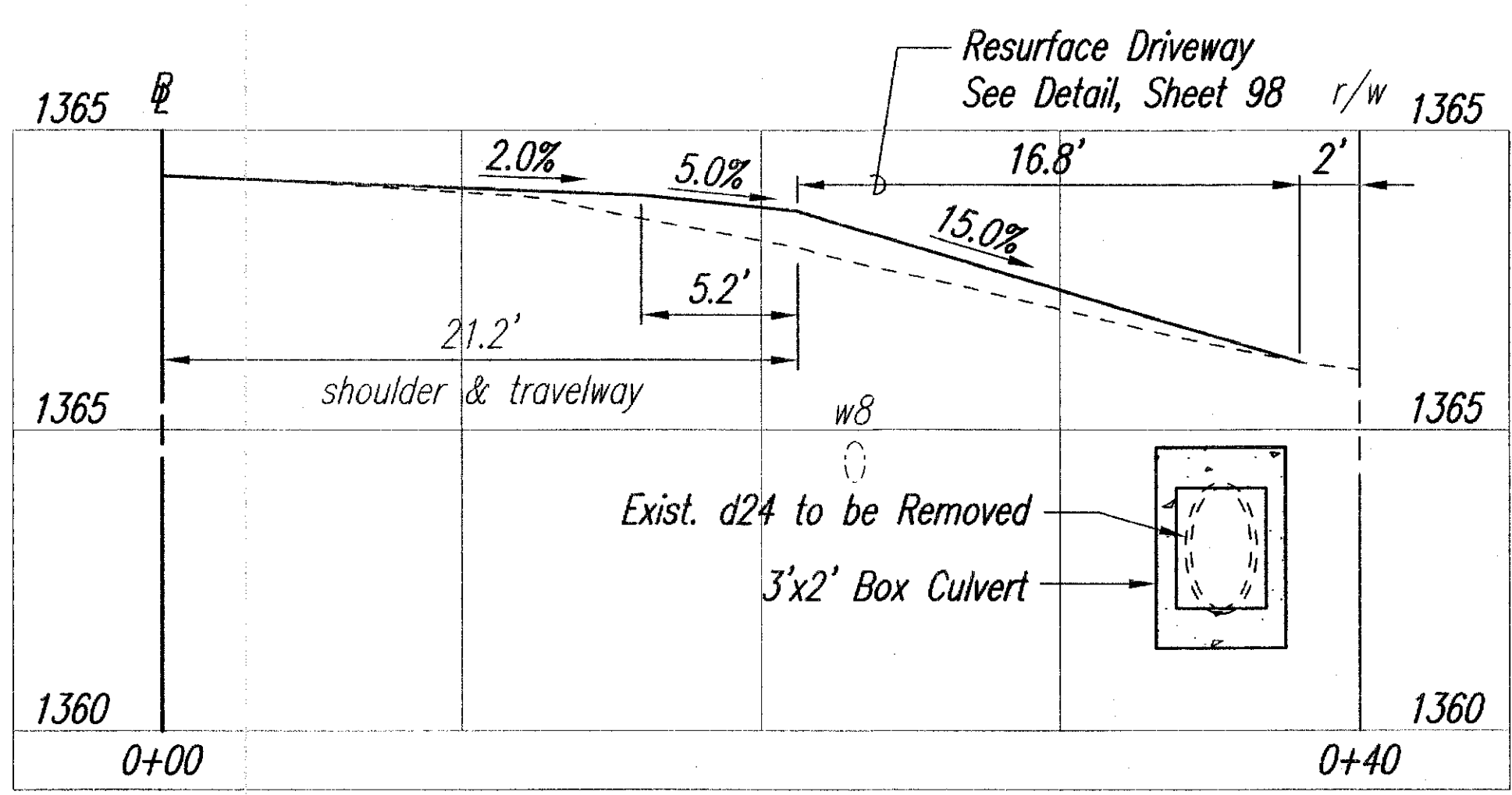
- Resurfaced AC Pav't.
- Exist. Drainline
- New Headwall Structure
- 1369.09 Finish Grade Elevation
- 1369.28 Match to Exist. Ground, Contractor to Verify

True North
Scale: 1"=5'



Driveway 5 - Plan

Scale: 1"= 5'-0"



Driveway 5 - Profile

Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

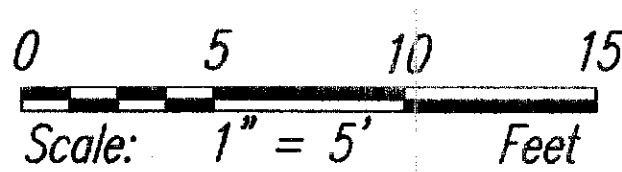
LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting



LICENSE EXPIRES 4/30/12

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

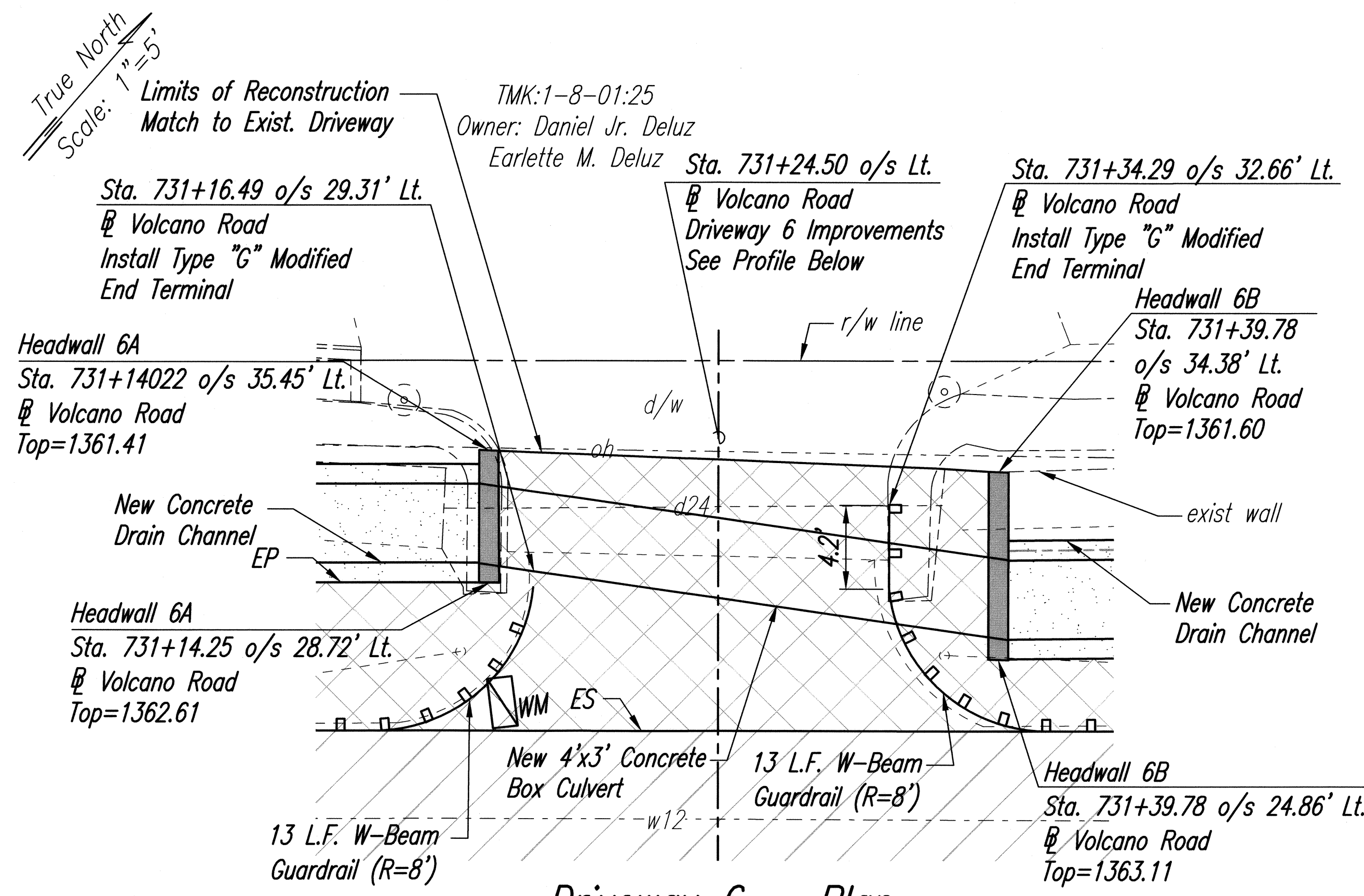
Volcano Road Intersection and
Drainage Improvements
Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

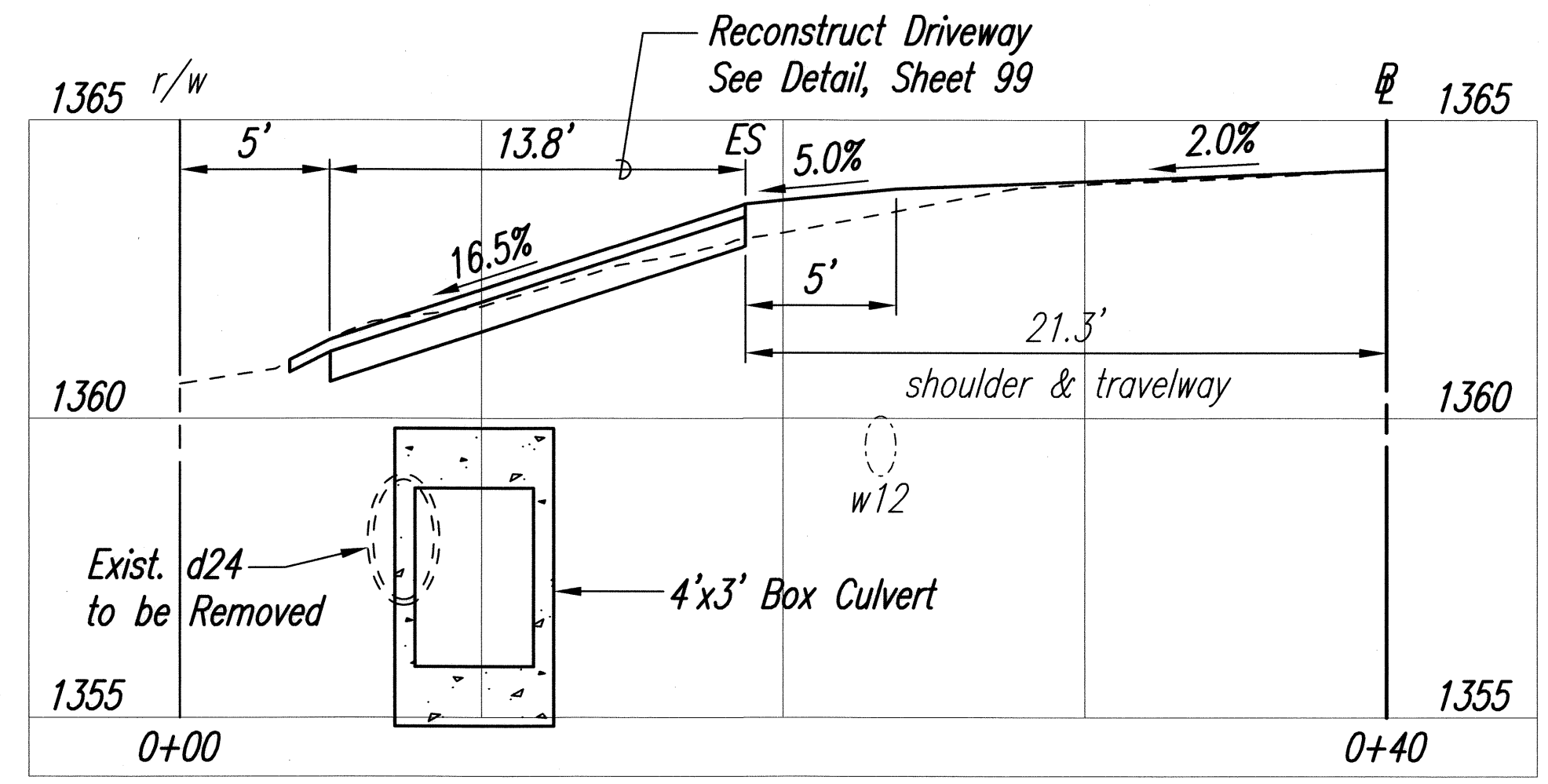
SHEET NO. 3 OF 12 SHEETS

"AS-BUILT"

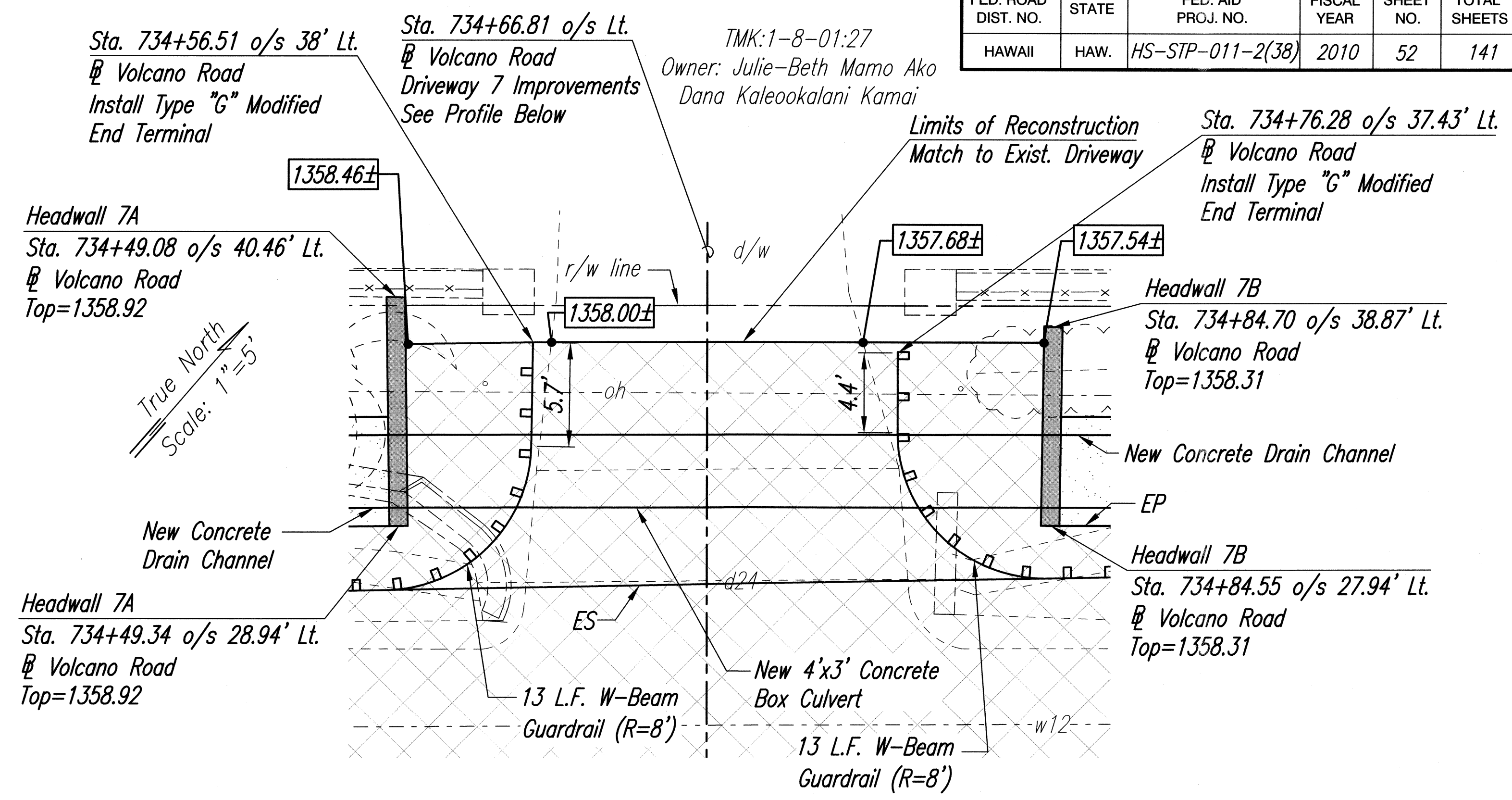
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	52	141



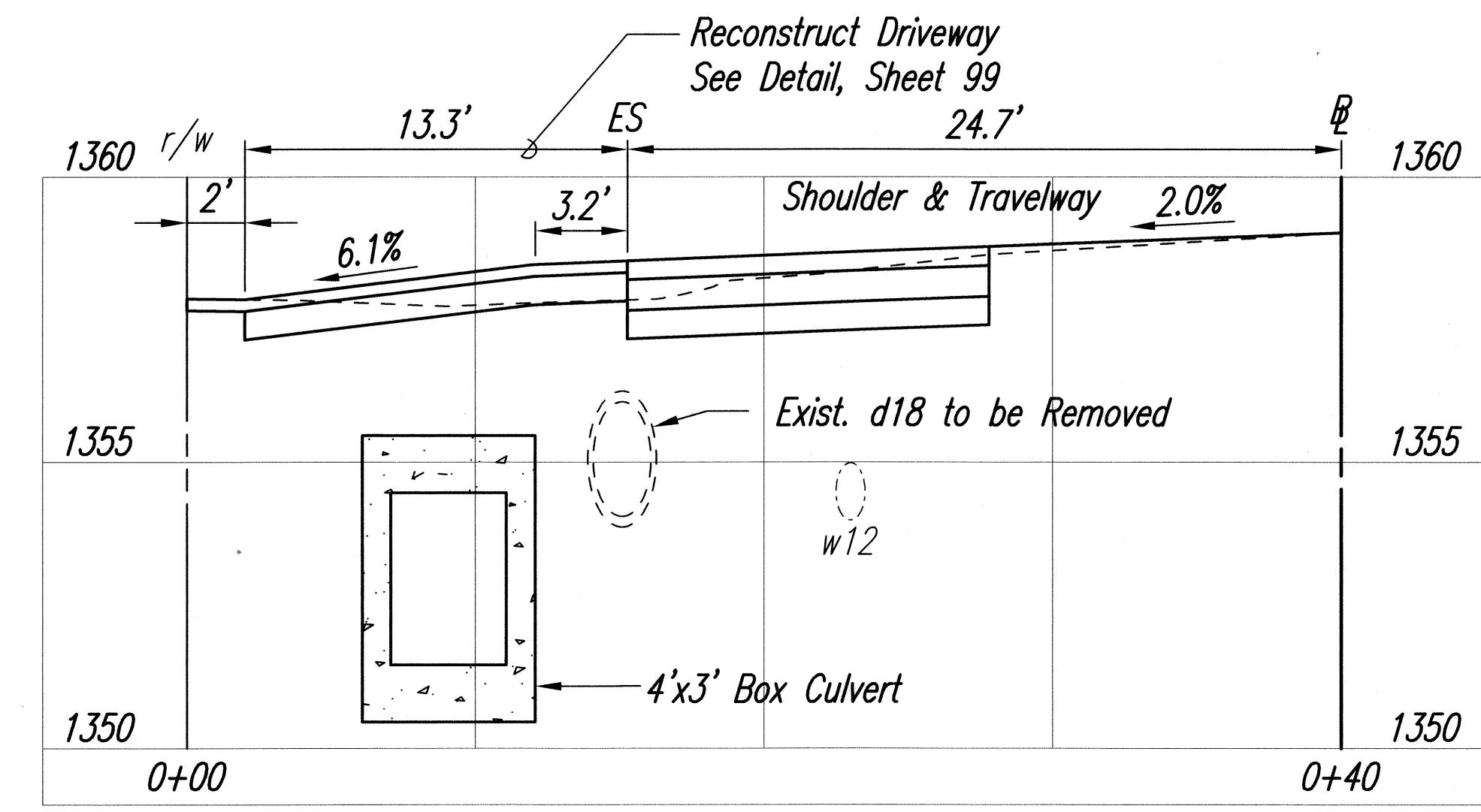
Driveway 6 - Plan
Scale: 1" = 5'-0"



Driveway 6 - Profile
Horiz. Scale: 1" = 5'-0"
Vert. Scale: 1" = 2'-6"

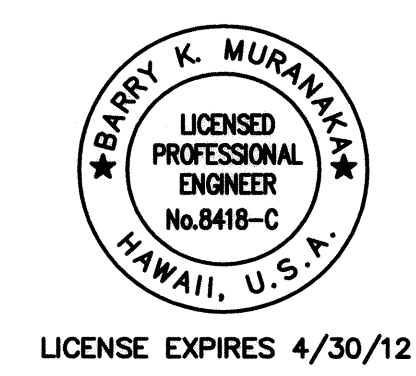


Driveway 7 - Plan
Scale: 1" = 5'-0"

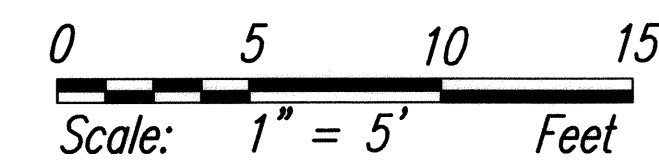


Driveway 7 - Profile
Horiz. Scale: 1" = 5'-0"
Vert. Scale: 1" = 2'-6"

- Legend**
- Reconstructed AC Pav't.
 - Resurfaced Pav't.
 - d18--
Exist. Drainline
 - New Headwall Structure
 - 1369.09
Finish Grade Elevation
 - 1369.28±
Match to Exist. Ground,
Contractor to Verify



LICENSE EXPIRES 4/30/12
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

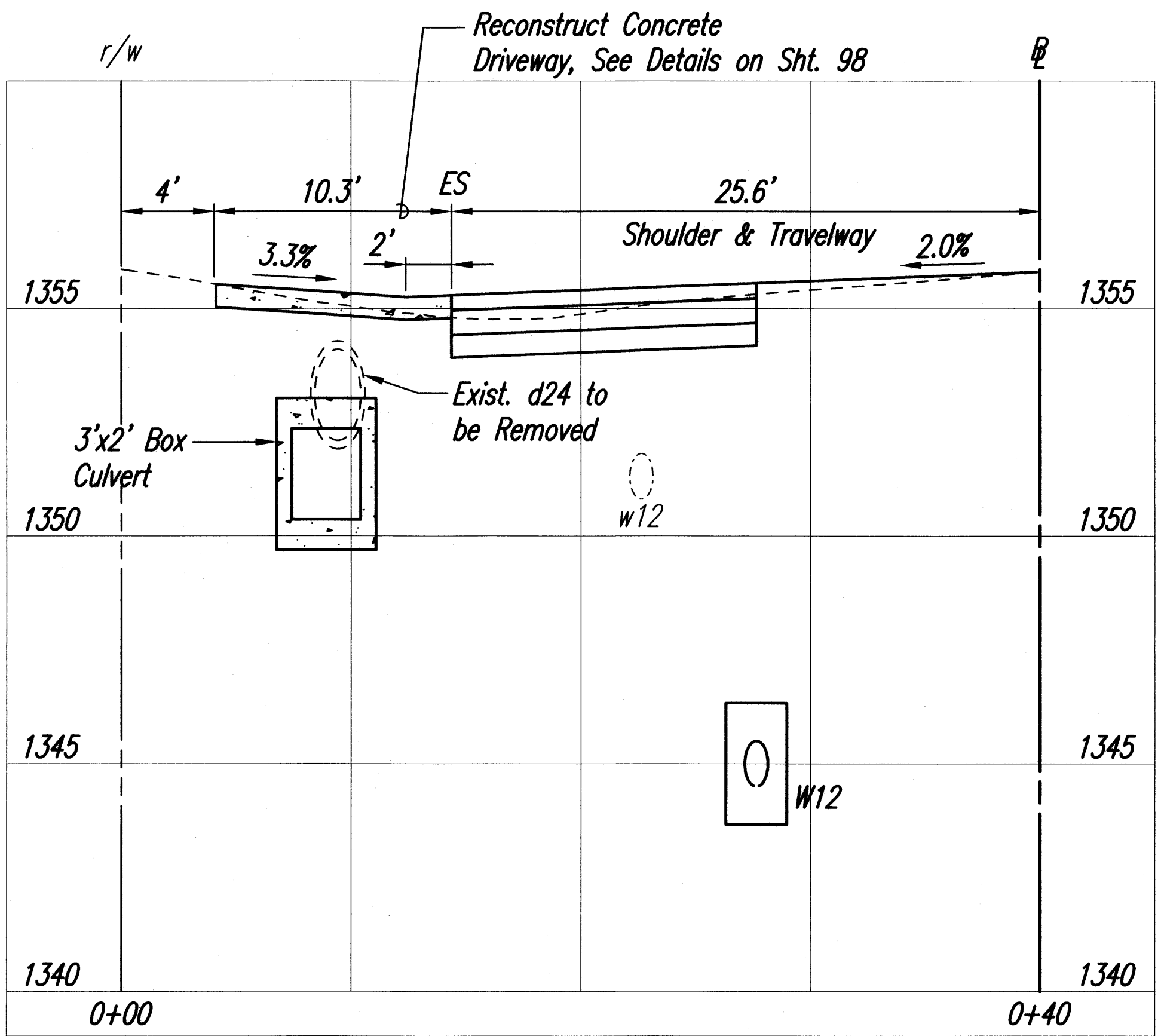
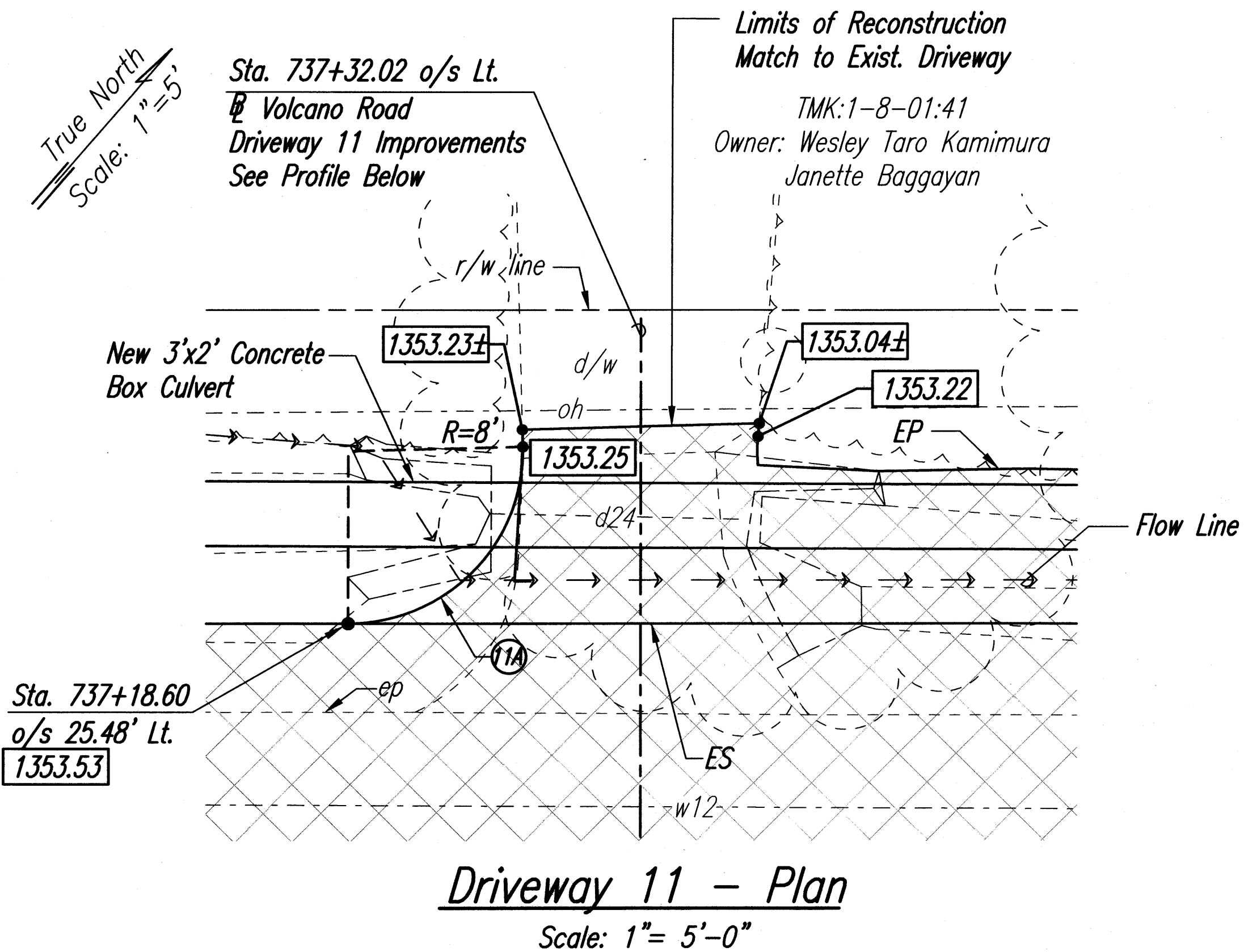
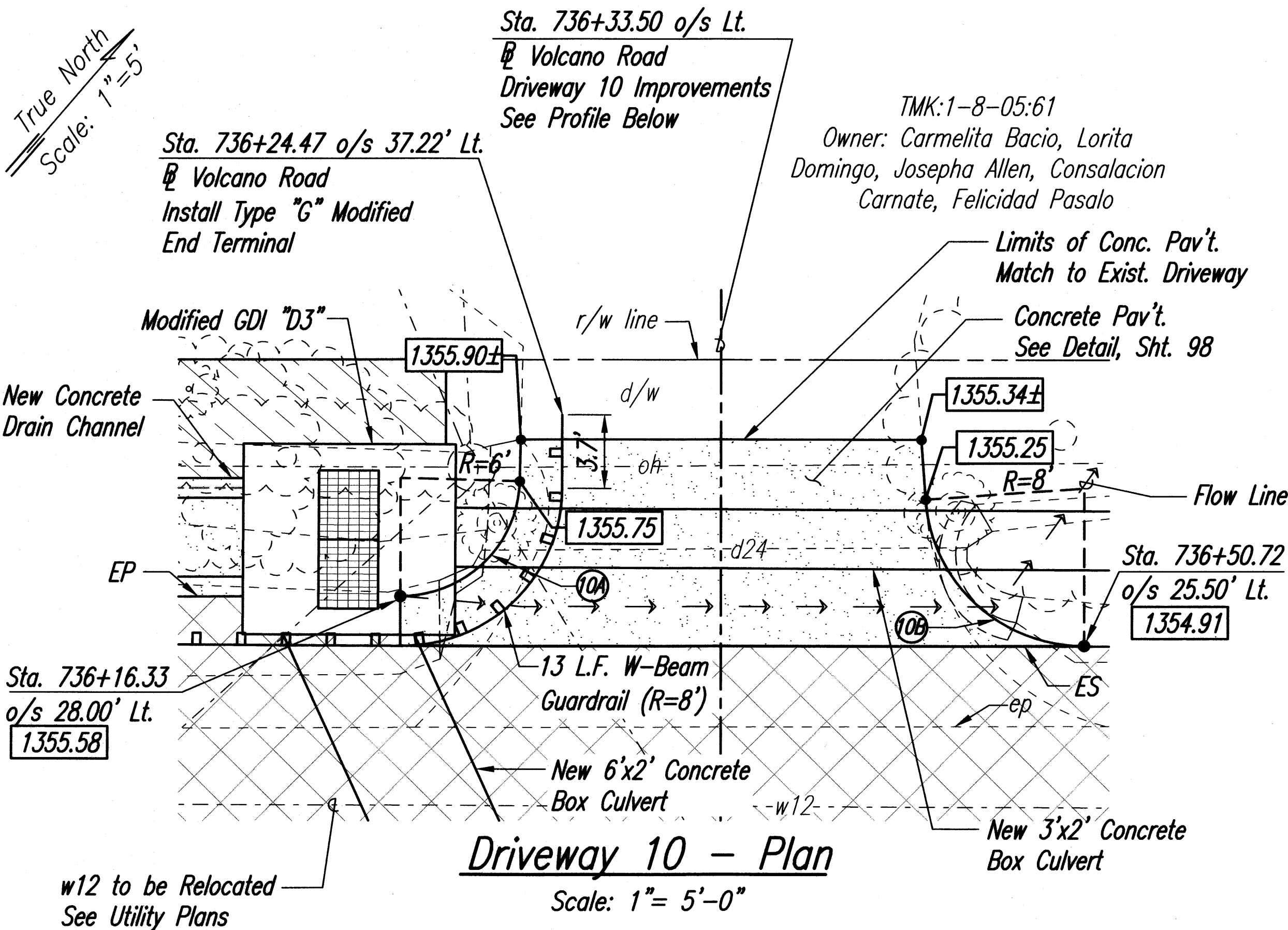
DRIVEWAY PLAN & PROFILE

**Volcano Road Intersection and
Drainage Improvements**
Federal-Aid Project No. HS-STP-011-2(38)

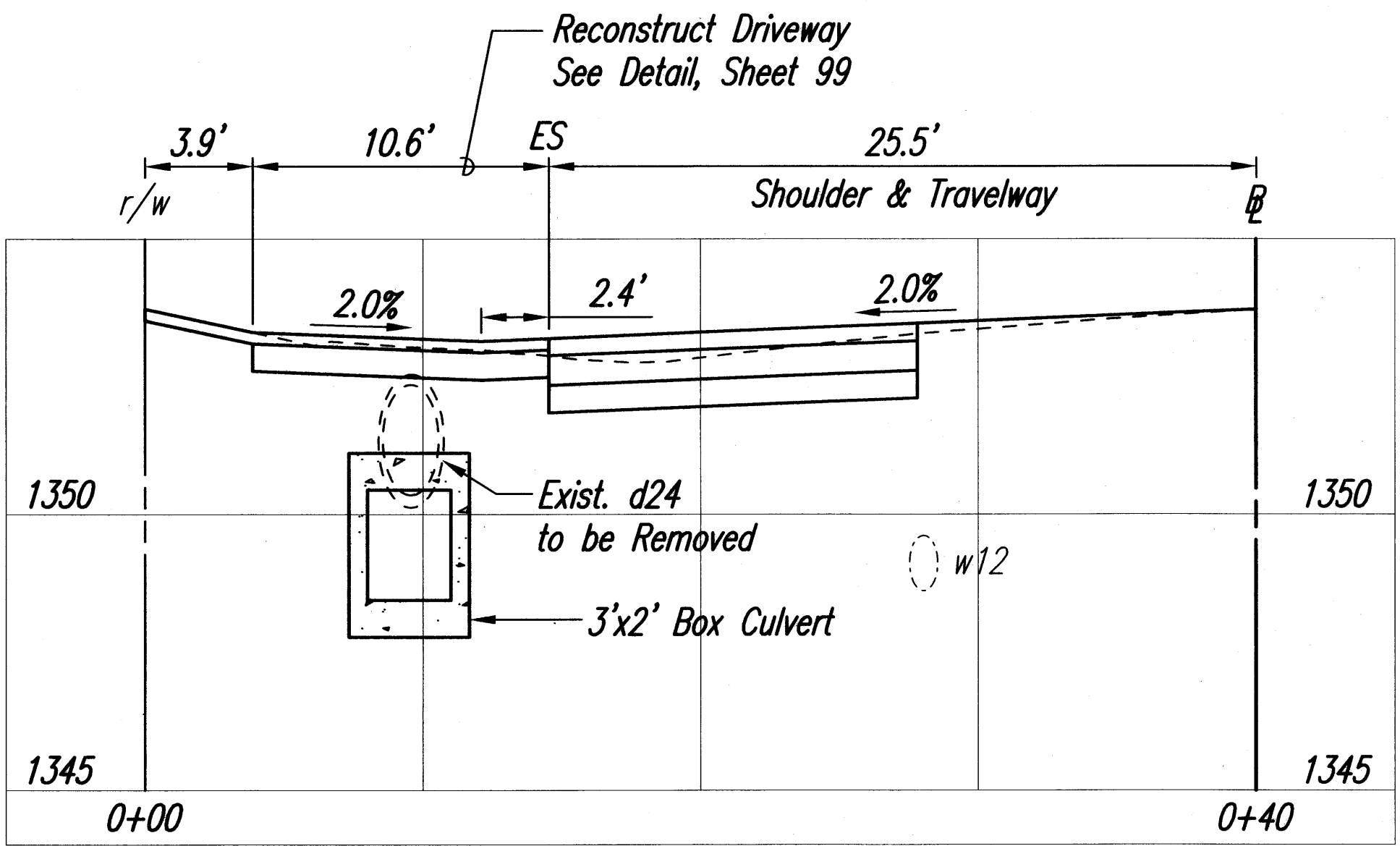
Scale: As Noted Date: November 2010

SHEET No. 4 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	54	141

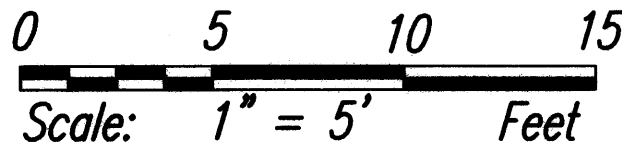


Driveway 10 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"



Driveway 11 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

Curve	10A	10B	11A
Δ	88°33'36"	88°57'33"	91°29'23"
Δ/2	44°16'48"	44°28'46"	45°34'41"
R	6.00	8.00	8.00
T	5.85	7.45	8.21
C	8.38	10.91	11.46
Lc	9.27	12.00	12.77



LICENSE EXPIRES 4/30/12
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- Legend**
- Reconstructed AC Pav't.
 - Exist. Drainline
 - 1369.09 Finish Grade Elevation
 - 1369.28± Match to Exist. Ground, Contractor to Verify
 - Curve Number

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

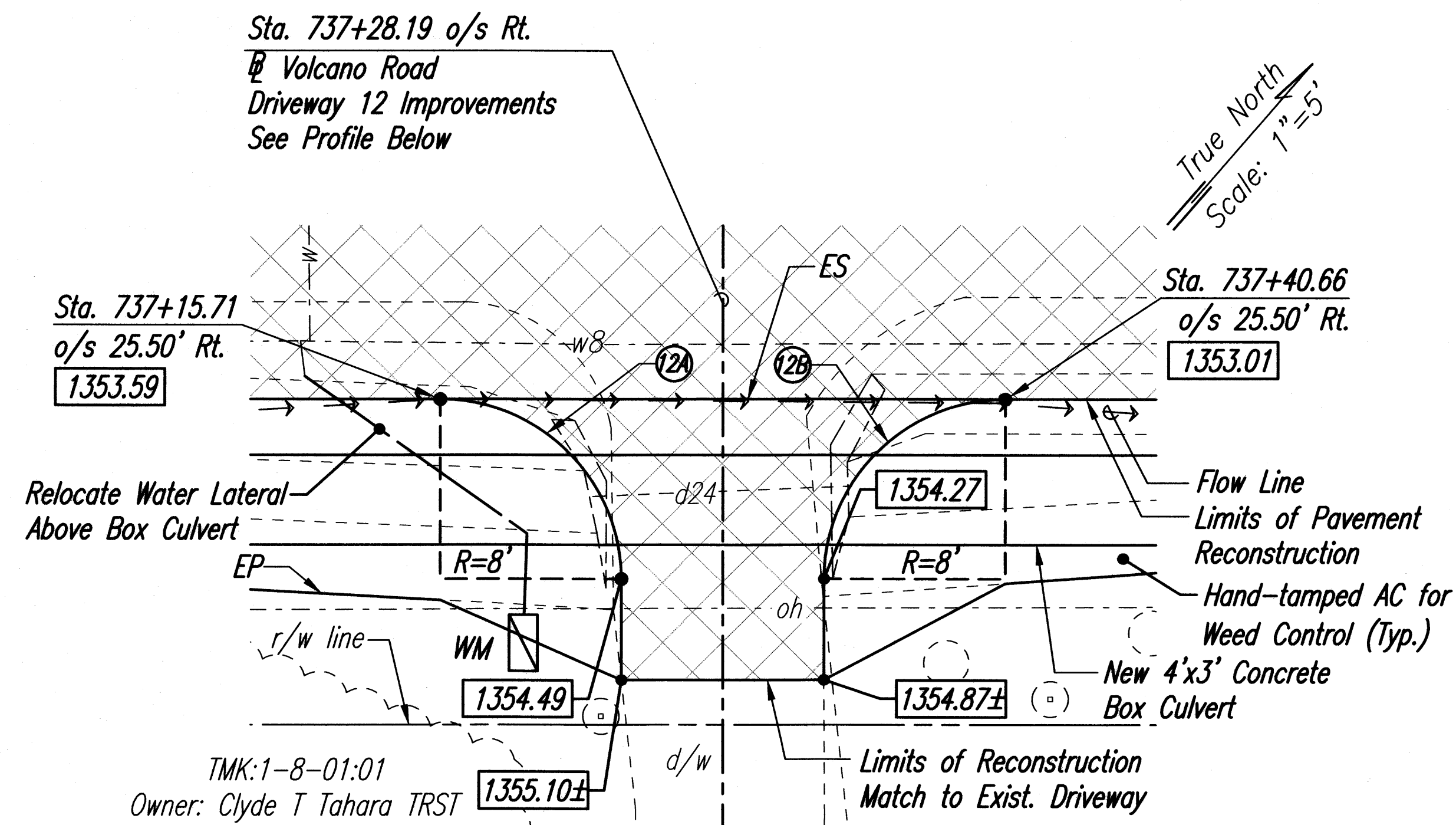
Volcano Road Intersection and Drainage Improvements

Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

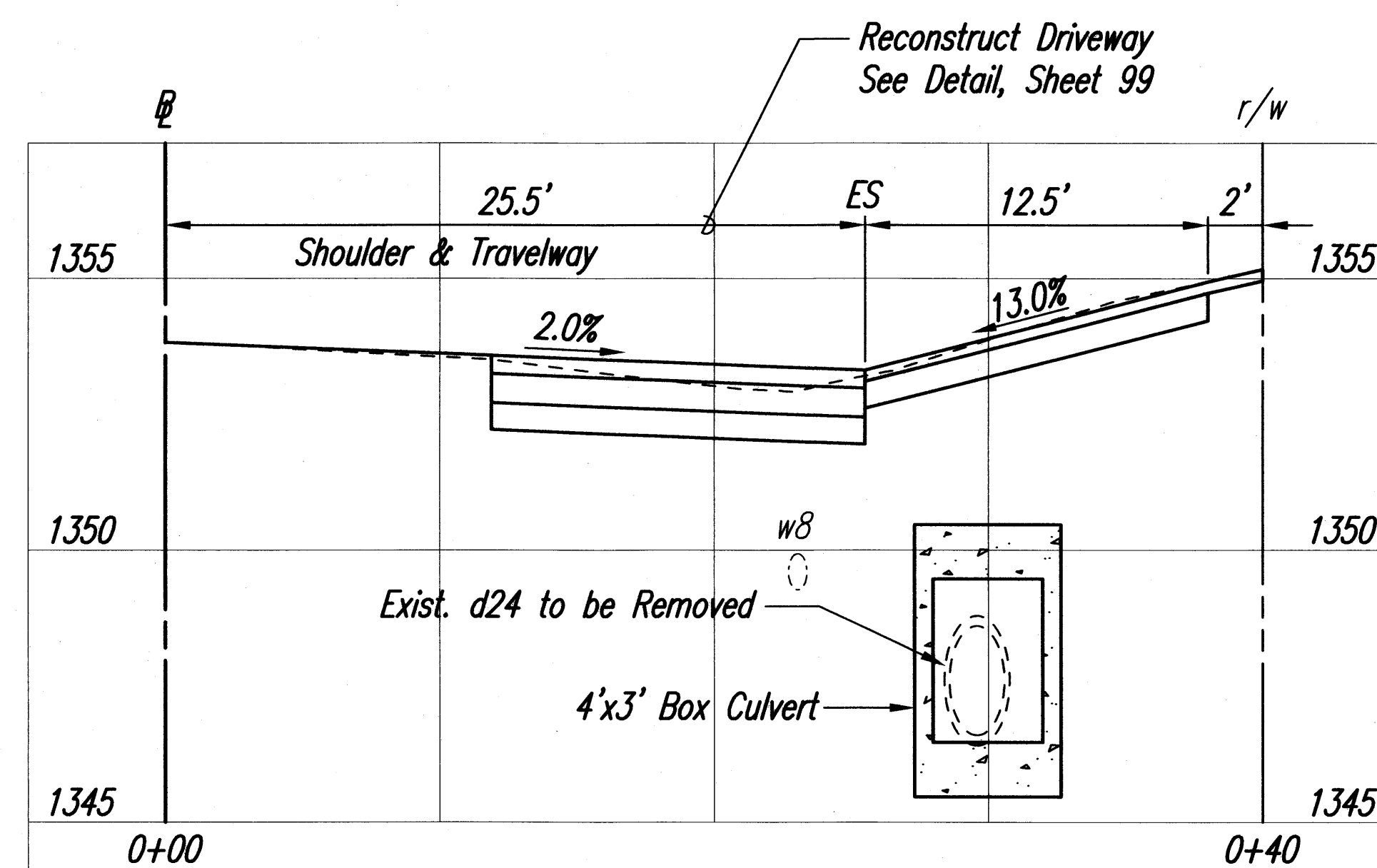
SHEET No. 6 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	55	141



Driveway 12 - Plan

Scale: 1" = 5'-0"

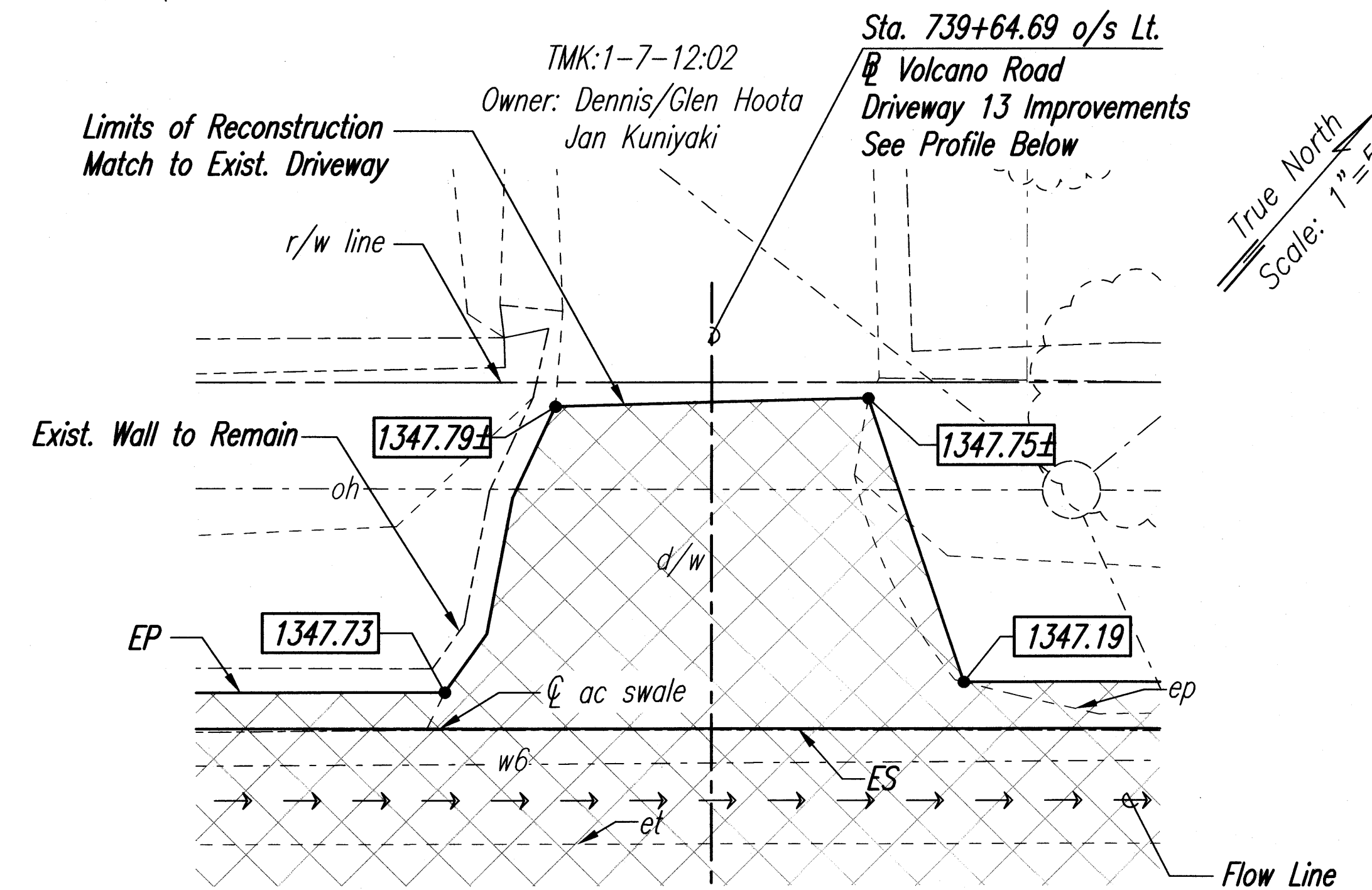


Driveway 12 - Profile

Horiz. Scale: 1" = 5'-0"

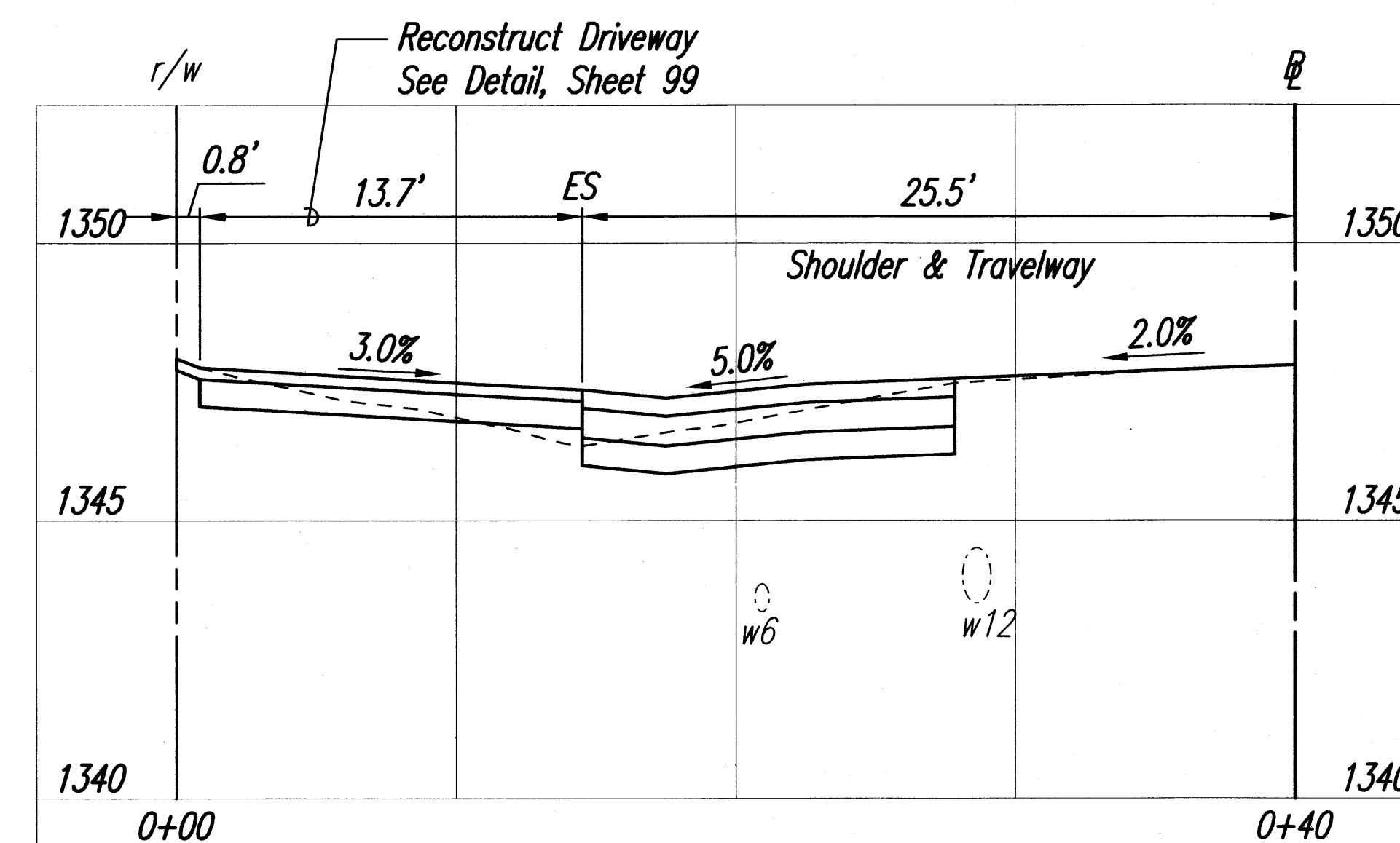
Vert. Scale: 1" = 2'-6"

Curve	(2A)	(2B)
Δ	90°00'29"	90°00'00"
$\Delta/2$	45°00'14"	45°00'00"
R	8.00	8.00
T	8.00	8.00
C	11.31	11.31
L_c	12.56	12.56



Driveway 13 – Plan

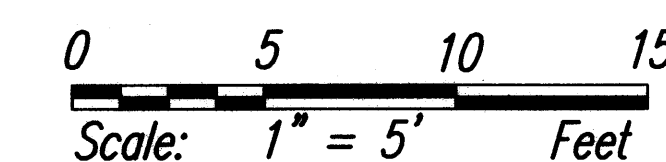
Scale: 1" = 5'-0"



Driveway 13 – Profile

Horiz. Scale: 1" = 5'-0"

Vert. Scale: 1" = 2'-6"



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By L. J. [unclear]

Legend

Reconstructed AC Pav't.

1369.09

Finish Grade Elevation

1369.28±

Match to Exist. Ground,
Contractor to Verify



Curve Number

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

Volcano Road Intersection and Drainage Improvements

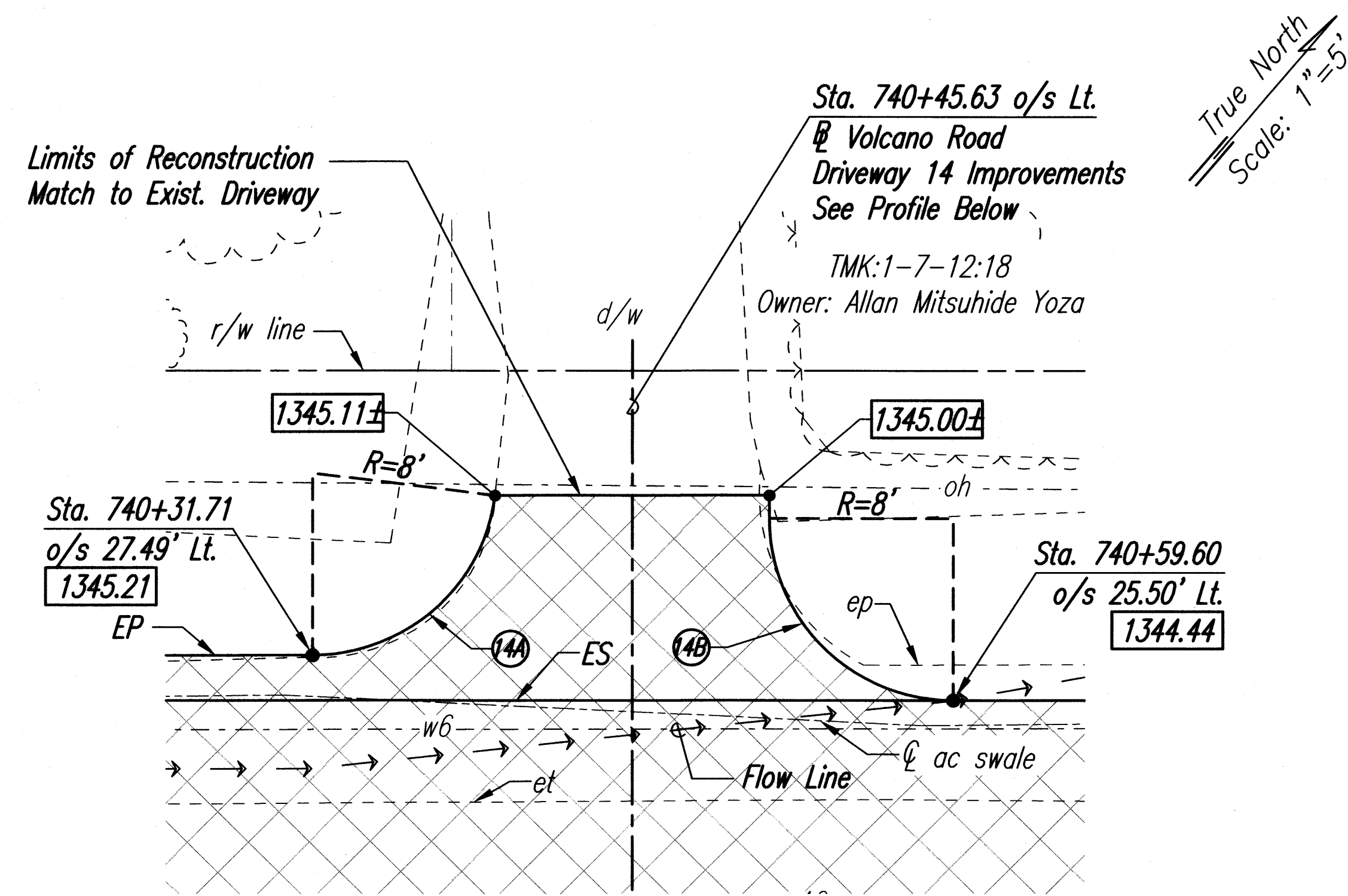
Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted

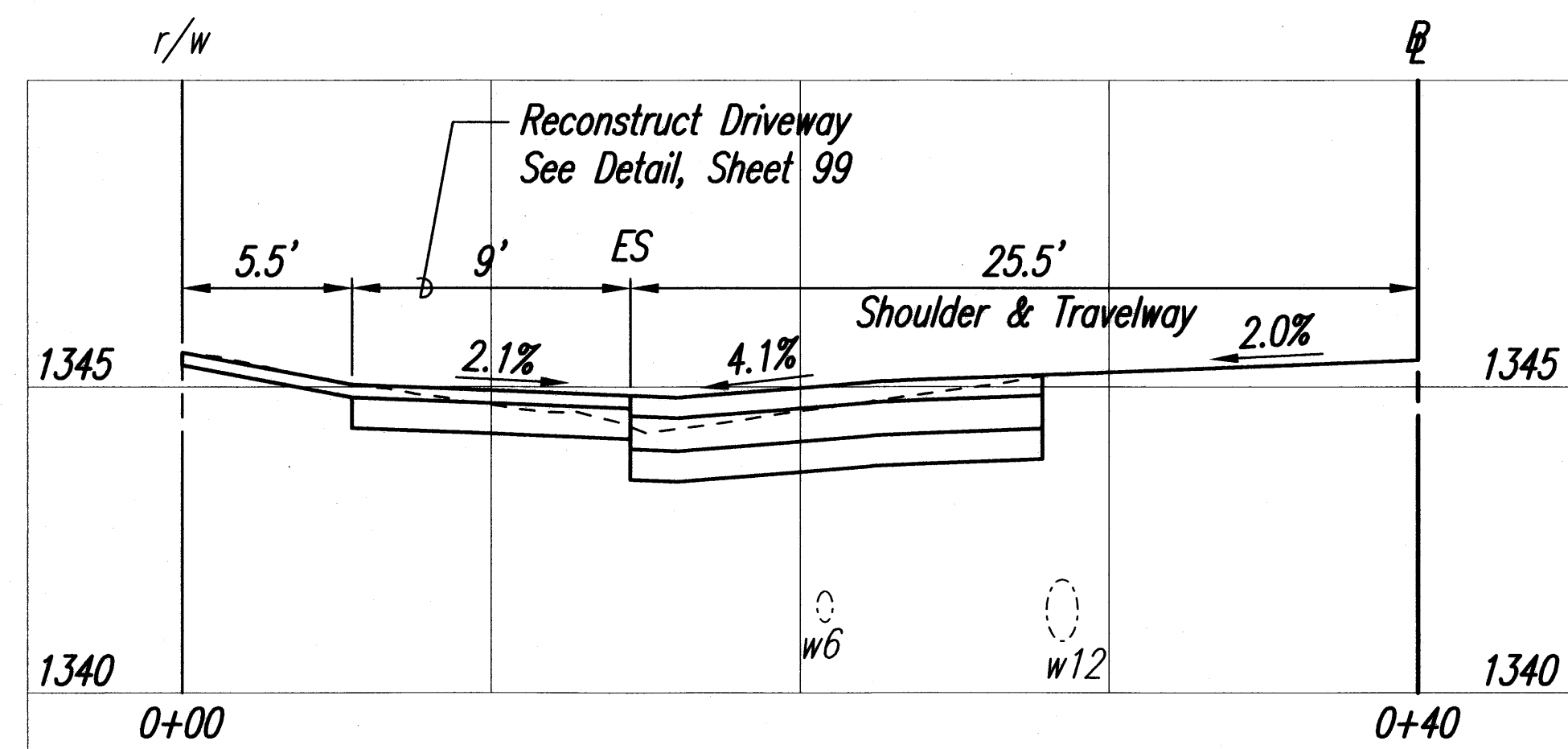
Date: November 2010

SHEET No. **7** OF **12** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	56	141

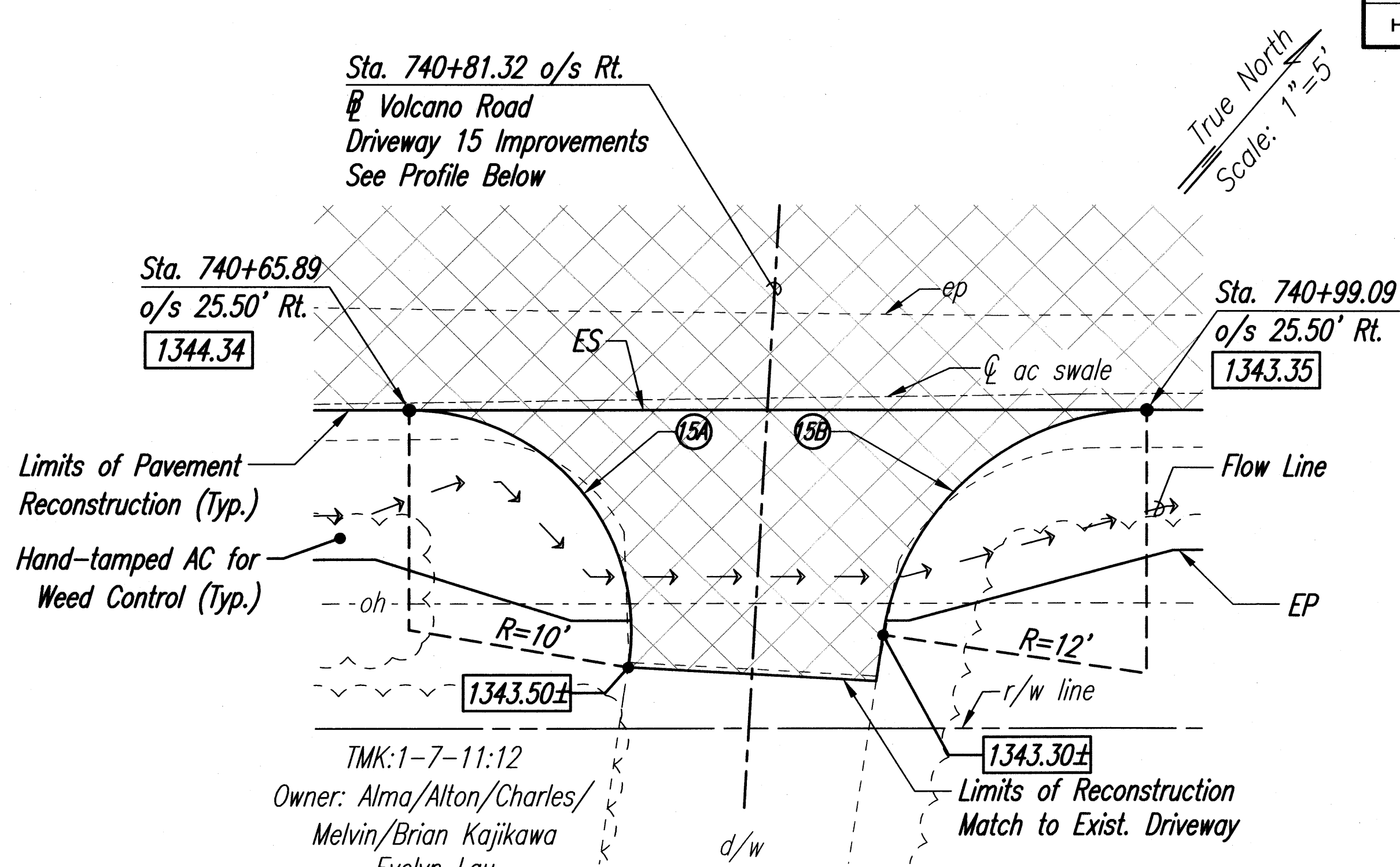


Driveway 14 – Plan
Scale: 1" = 5'-0"

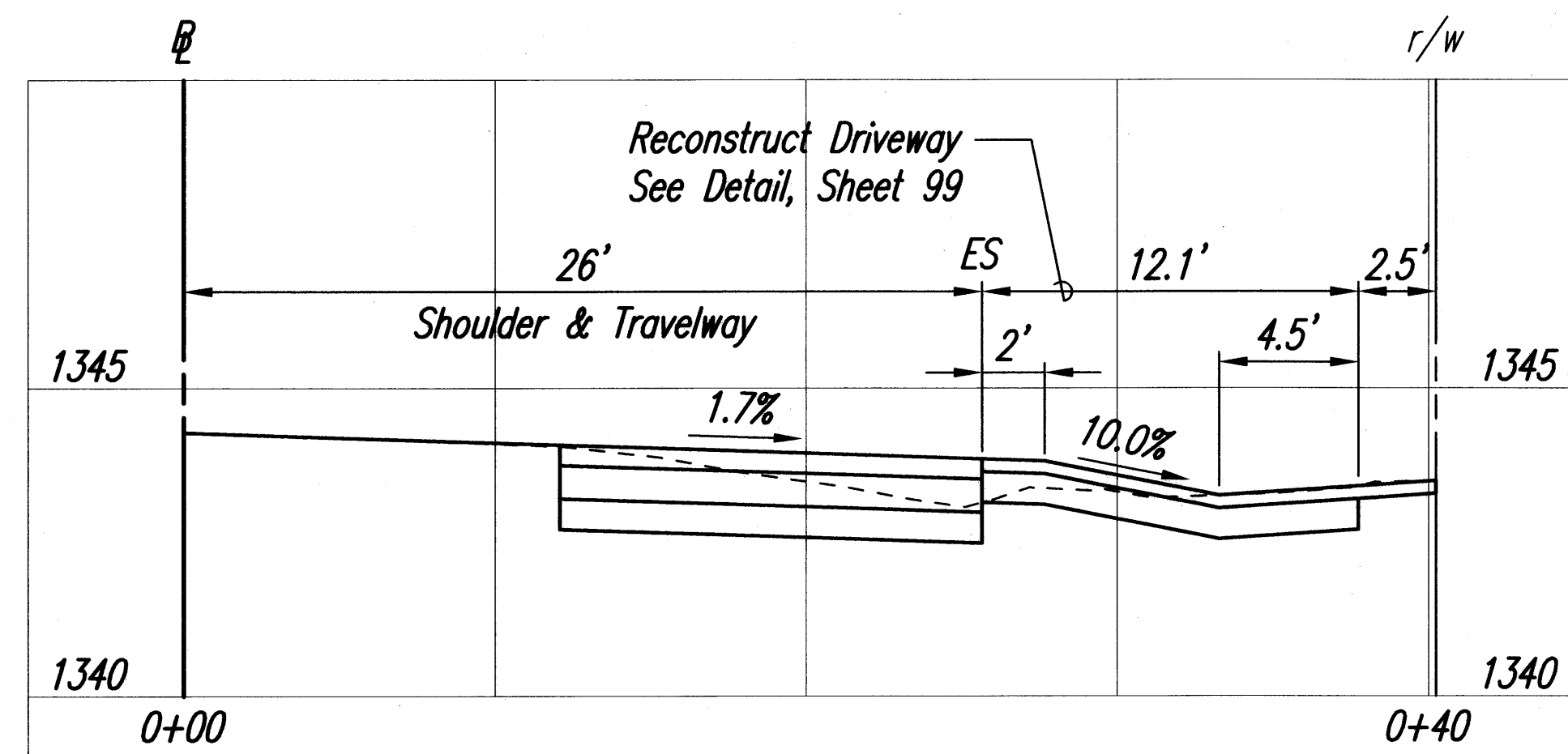


Driveway 14 – Profile
Horiz. Scale: 1" = 5'-0"
Vert. Scale: 1" = 2'-6"

Curve	14A	14B	15A	15B
Δ	83°45'01"	90°00'00"	99°48'29"	81°31'59"
$\Delta/2$	41°52'30"	45°00'00"	49°54'28"	40°45'59"
R	8.00	8.00	8.00	8.00
T	7.17	8.00	7.17	8.00
C	10.68	11.31	10.68	11.31
Lc	11.69	12.56	11.69	12.56



Driveway 15 – Plan
Scale: 1" = 5'-0"

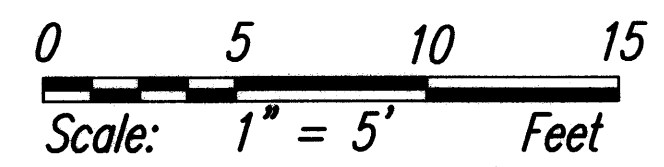


Driveway 15 – Profile
Horiz. Scale: 1" = 5'-0"
Vert. Scale: 1" = 2'-6"

- Legend**
- Reconstructed AC Pav't.
 - 1369.09 Finish Grade Elevation
 - 1369.28± Match to Exist. Ground, Contractor to Verify
 - Curve Number

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

BARRY K. MURANKA
LICENSED PROFESSIONAL ENGINEER
No. 8418-C
HAWAII, U.S.A.
LICENSE EXPIRES 4/30/12
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

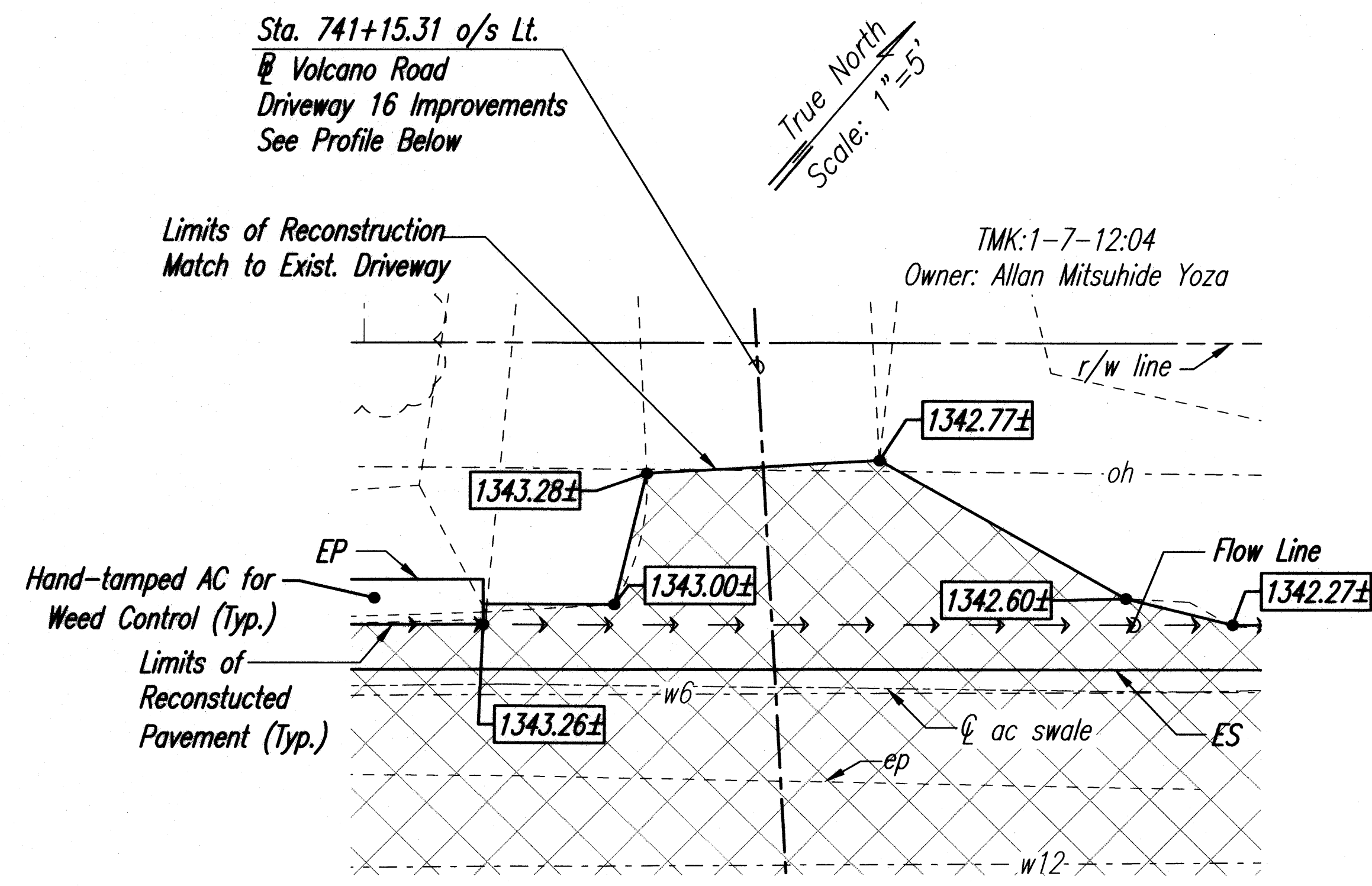
DRIVEWAY PLAN & PROFILE

Volcano Road Intersection and Drainage Improvements
Federal-Aid Project No. HS-STP-011-2(38)

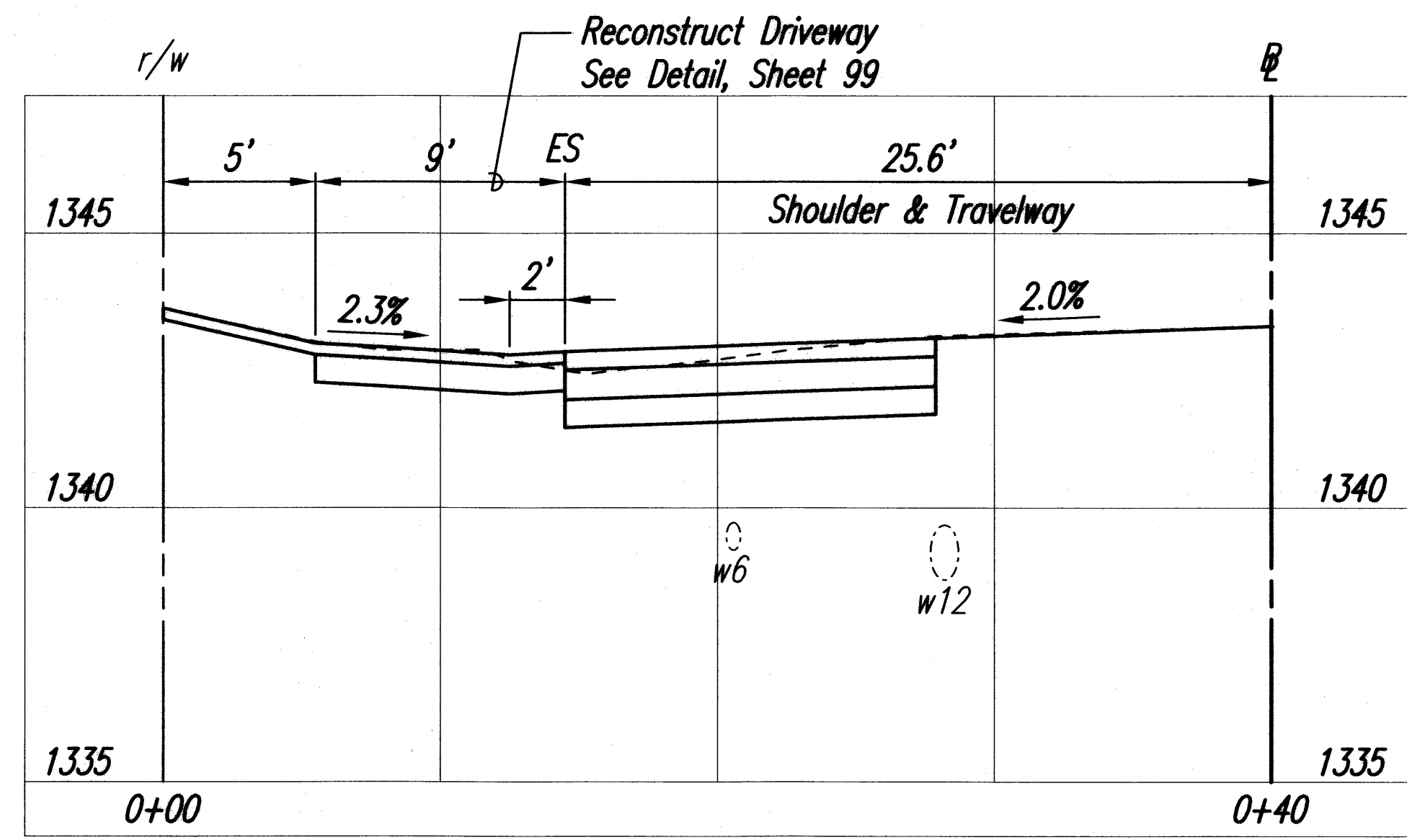
Scale: As Noted Date: November 2010

SHEET NO. 8 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	57	141

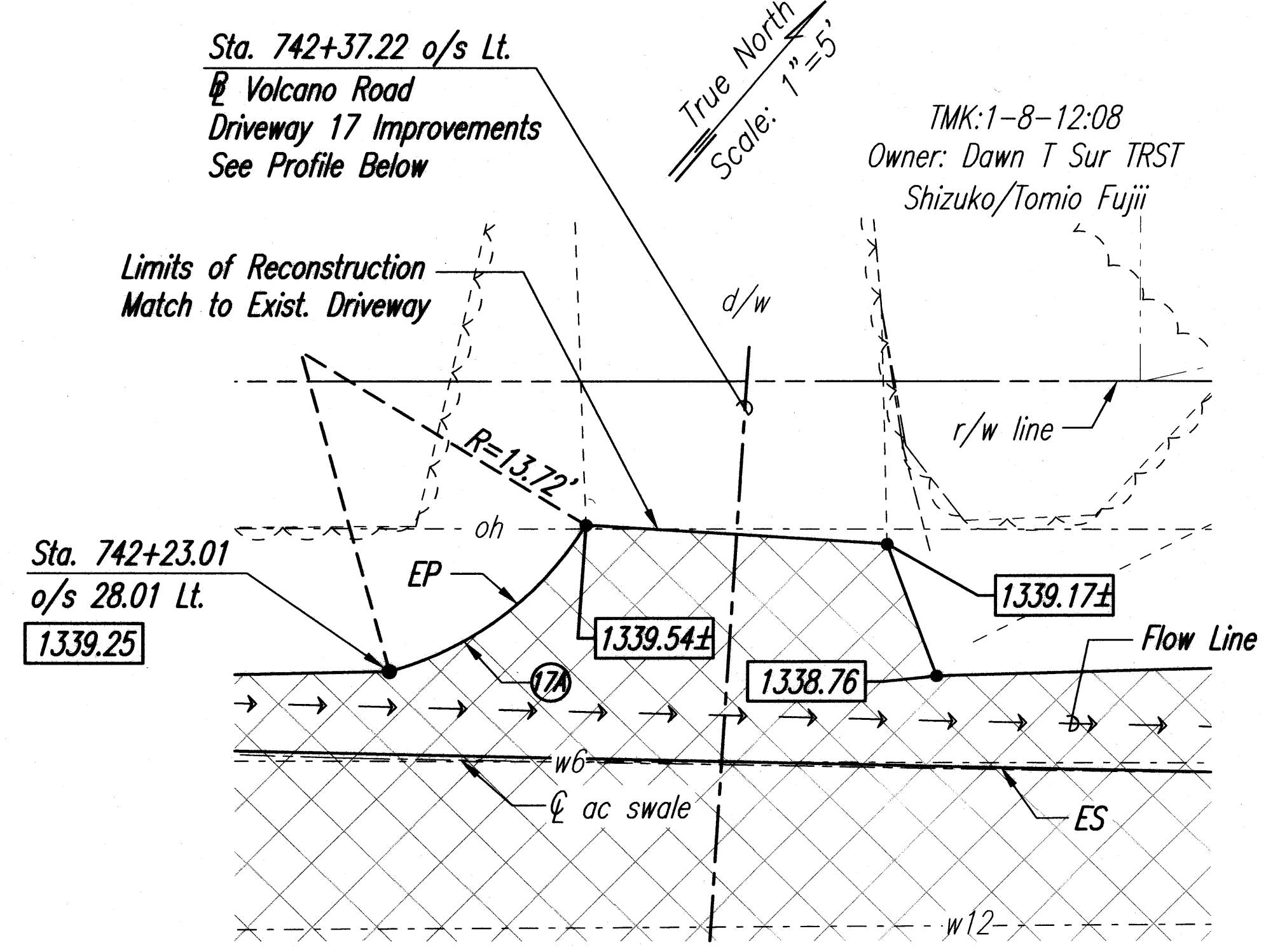


Driveway 16 - Plan
Scale: 1"= 5'-0"

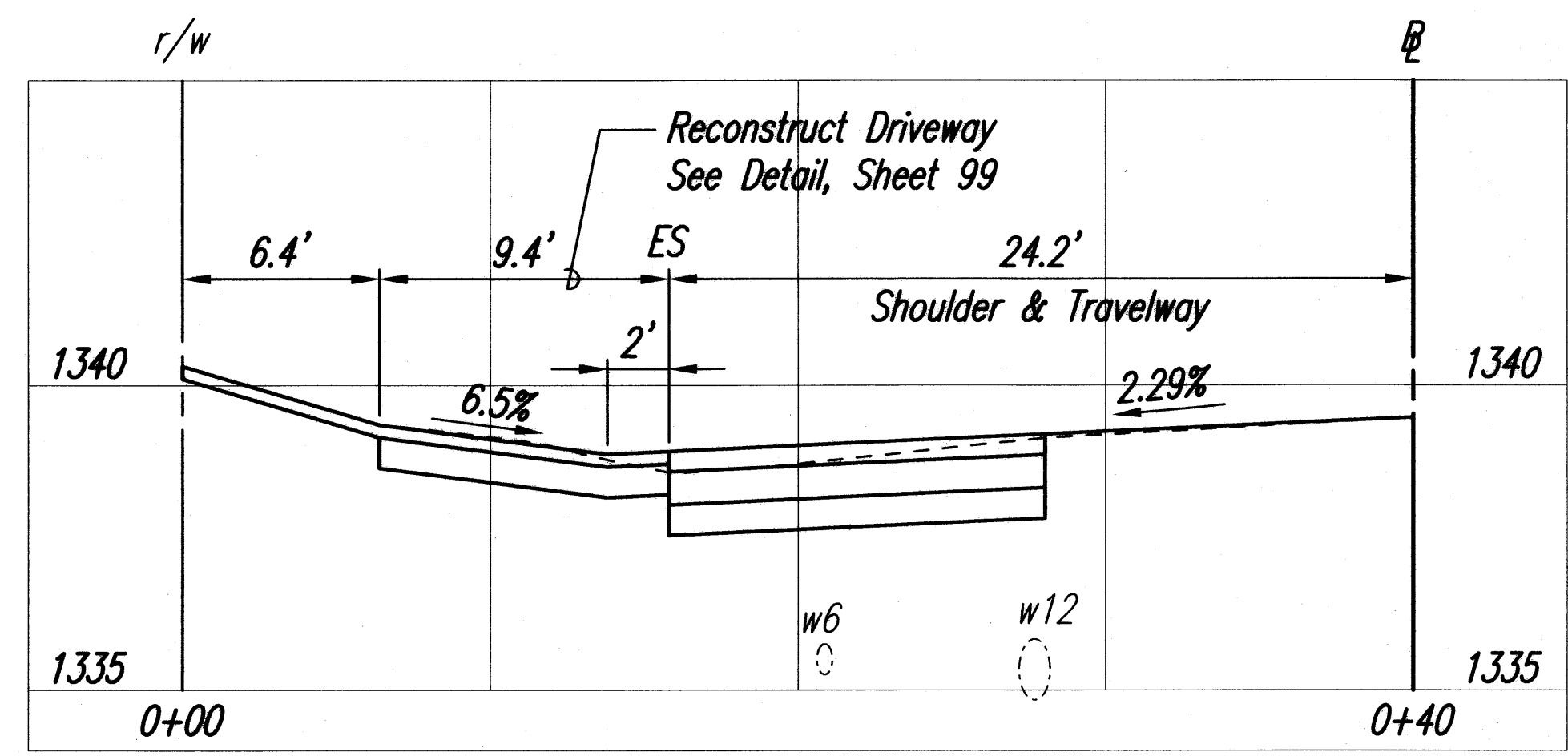


Driveway 16 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

Curve	(7A)
Δ	57°14'28"
$\Delta/2$	28°37'14"
R	13.75
T	7.50
C	13.17
Lc	13.74

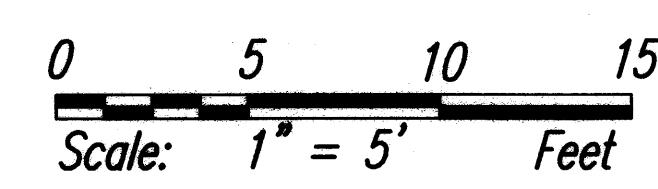
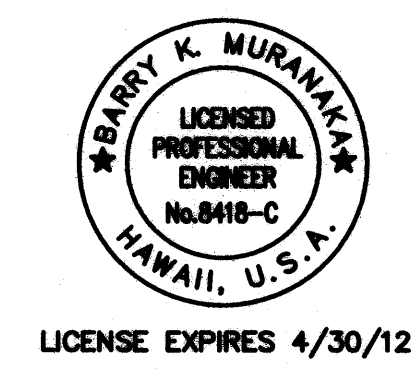


Driveway 17 - Plan
Scale: 1"= 5'-0"



Driveway 17 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

- Legend**
- Reconstructed AC Pav't.
 - Finish Grade Elevation
 - Match to Exist. Ground, Contractor to Verify
 - Curve Number



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

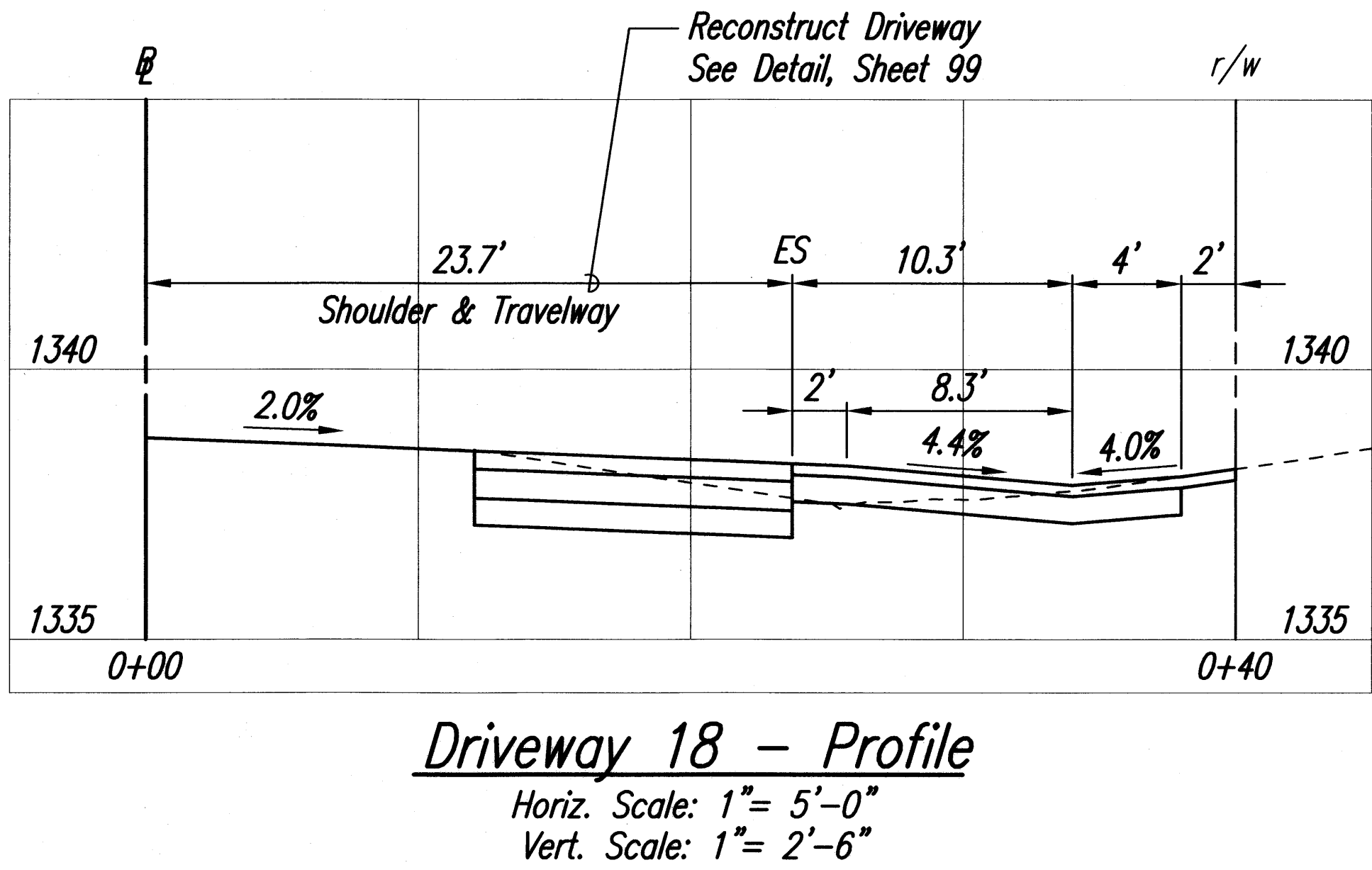
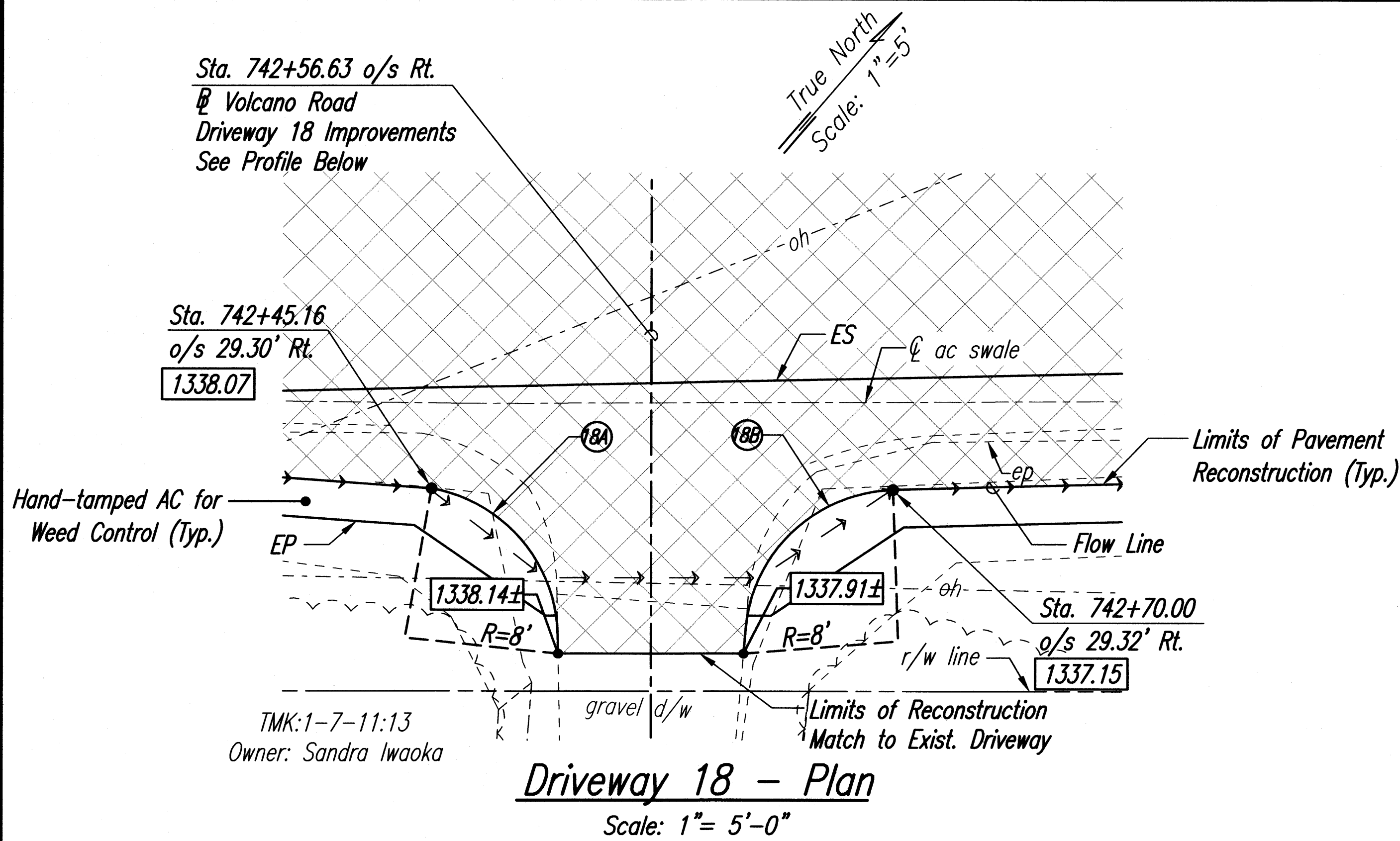
Volcano Road Intersection and Drainage Improvements

Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

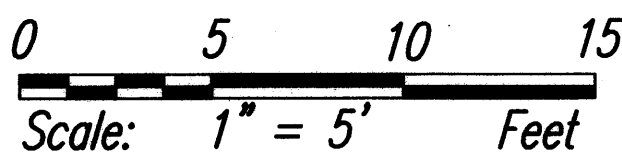
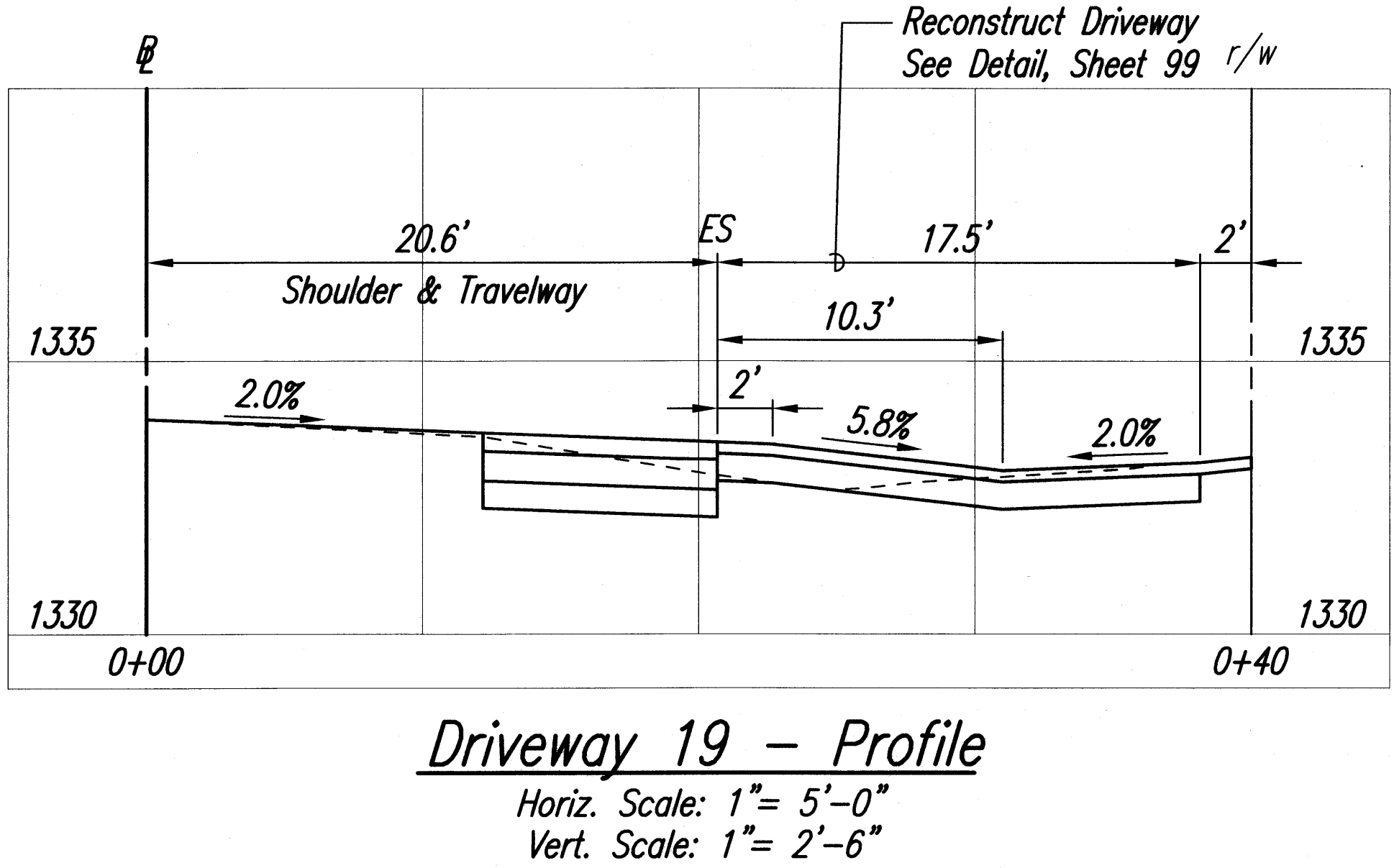
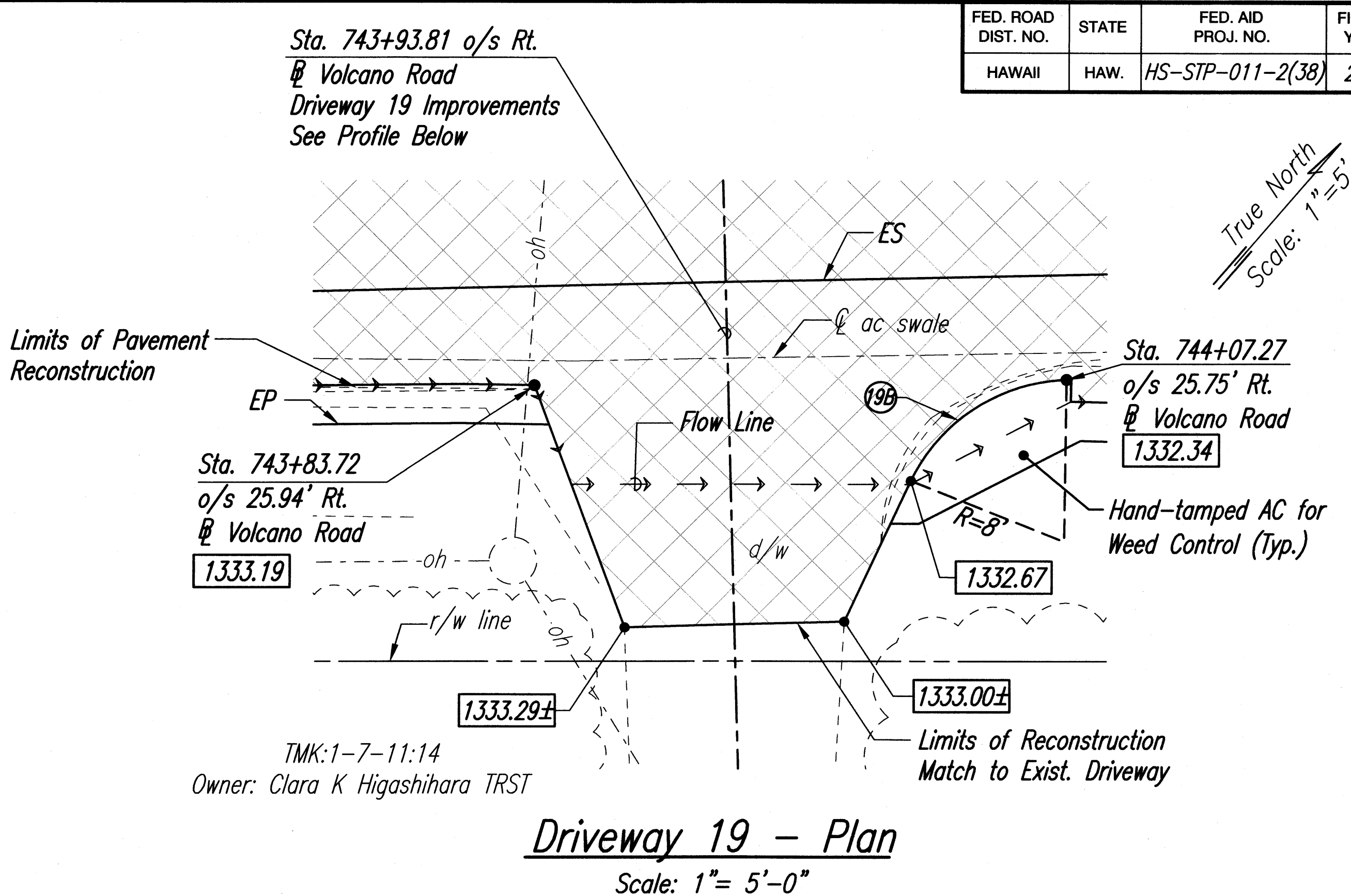
SHEET No. 9 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	58	141



Curve	(18A)	(18B)	(19C)
Δ	84°42'27"	83°31'59"	65°32'49"
$\Delta/2$	42°21'13"	41°45'59"	32°30'10"
R	8.00	8.00	9.00
T	7.29	7.15	5.79
C	10.78	10.66	9.74
Lc	11.83	11.67	10.30

- Legend**
- Reconstructed AC Pav't.
 - 1369.09 Finish Grade Elevation
 - 1369.28± Match to Exist. Ground, Contractor to Verify



LICENSE EXPIRES 4/30/12
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

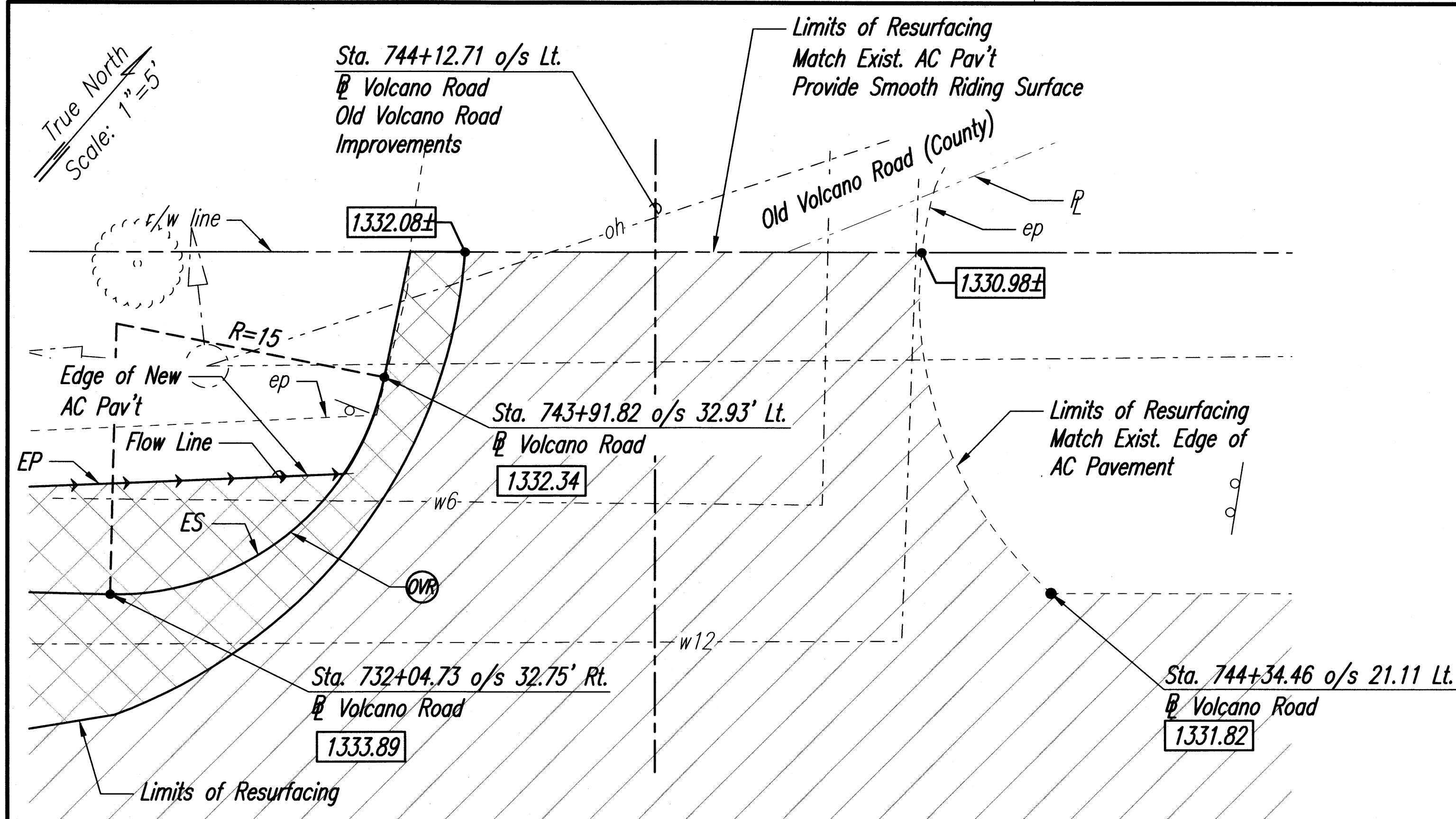
Volcano Road Intersection and Drainage Improvements

Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

SHEET No. 10 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	59	141

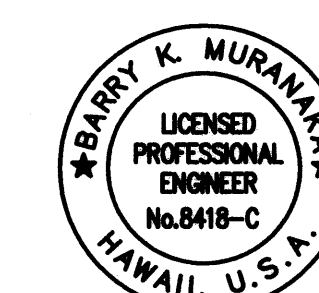
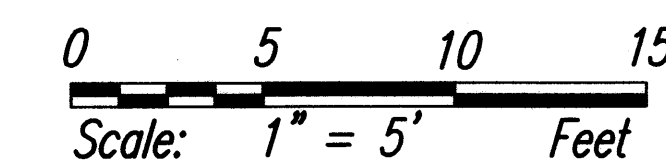
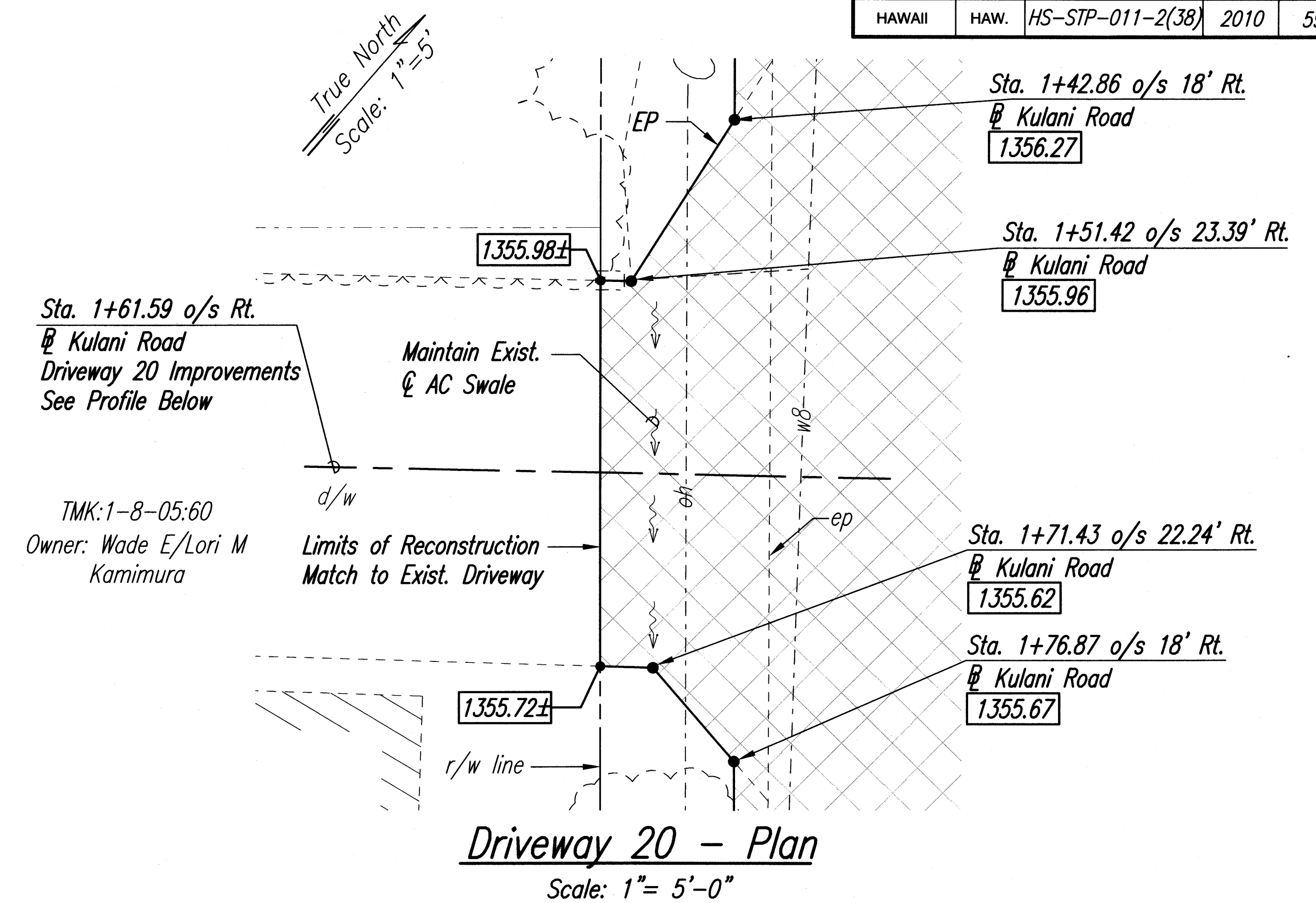


Old Volcano Road - Plan
Scale: 1"= 5'-0"

Curve	QVR
Δ	92°01'38"
$\Delta/2$	46°00'49"
R	5.5
T	5.70
C	7.91
Lc	8.83

Legend

- Reconstructed AC Pav't.
- Resurfaced Pav't.
- 1369.09 Finish Grade Elevation
- 1369.28± Match to Exist. Ground, Contractor to Verify
- (X) Curve Number



LICENSE EXPIRES 4/30/12

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY PLAN & PROFILE

**Volcano Road Intersection and
Drainage Improvements**

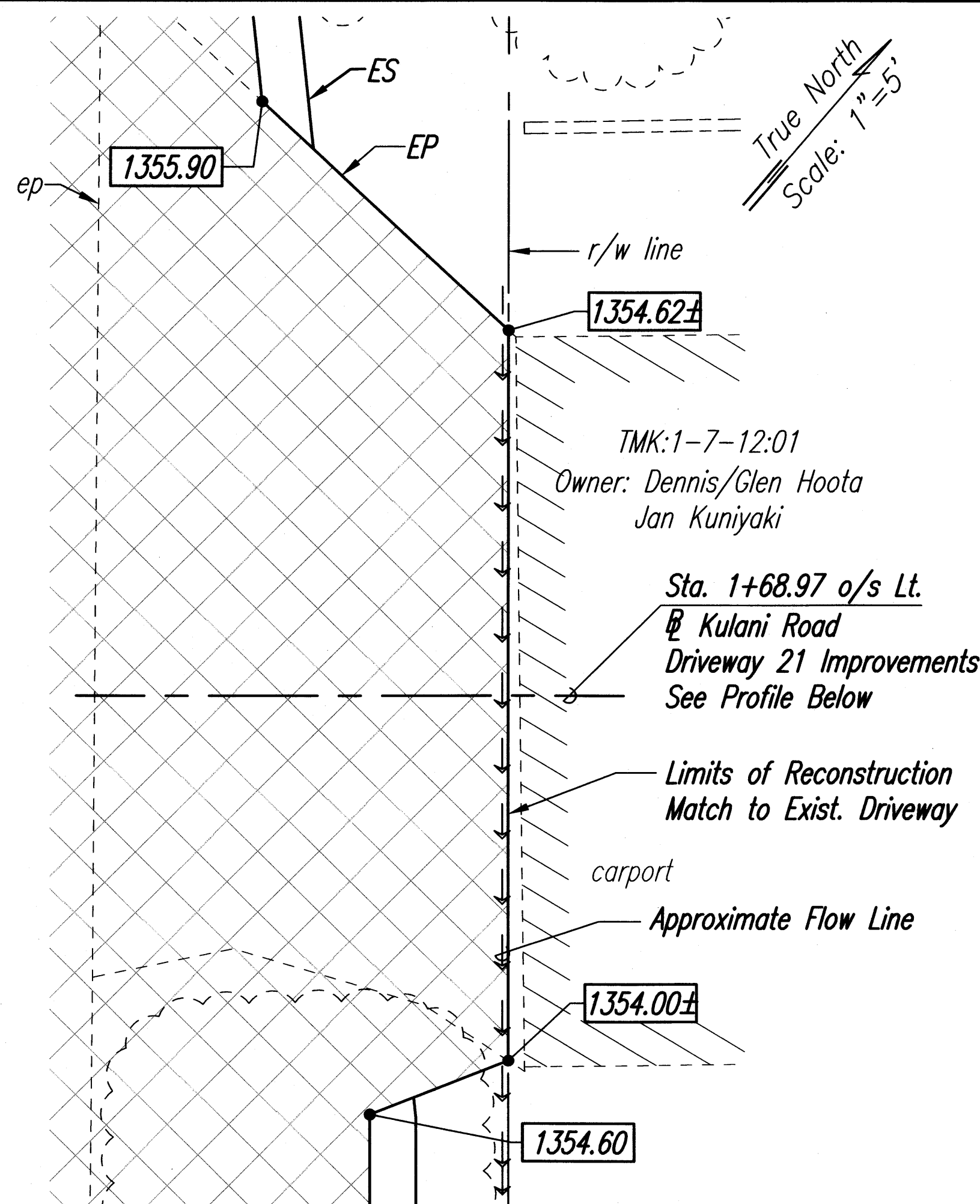
Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

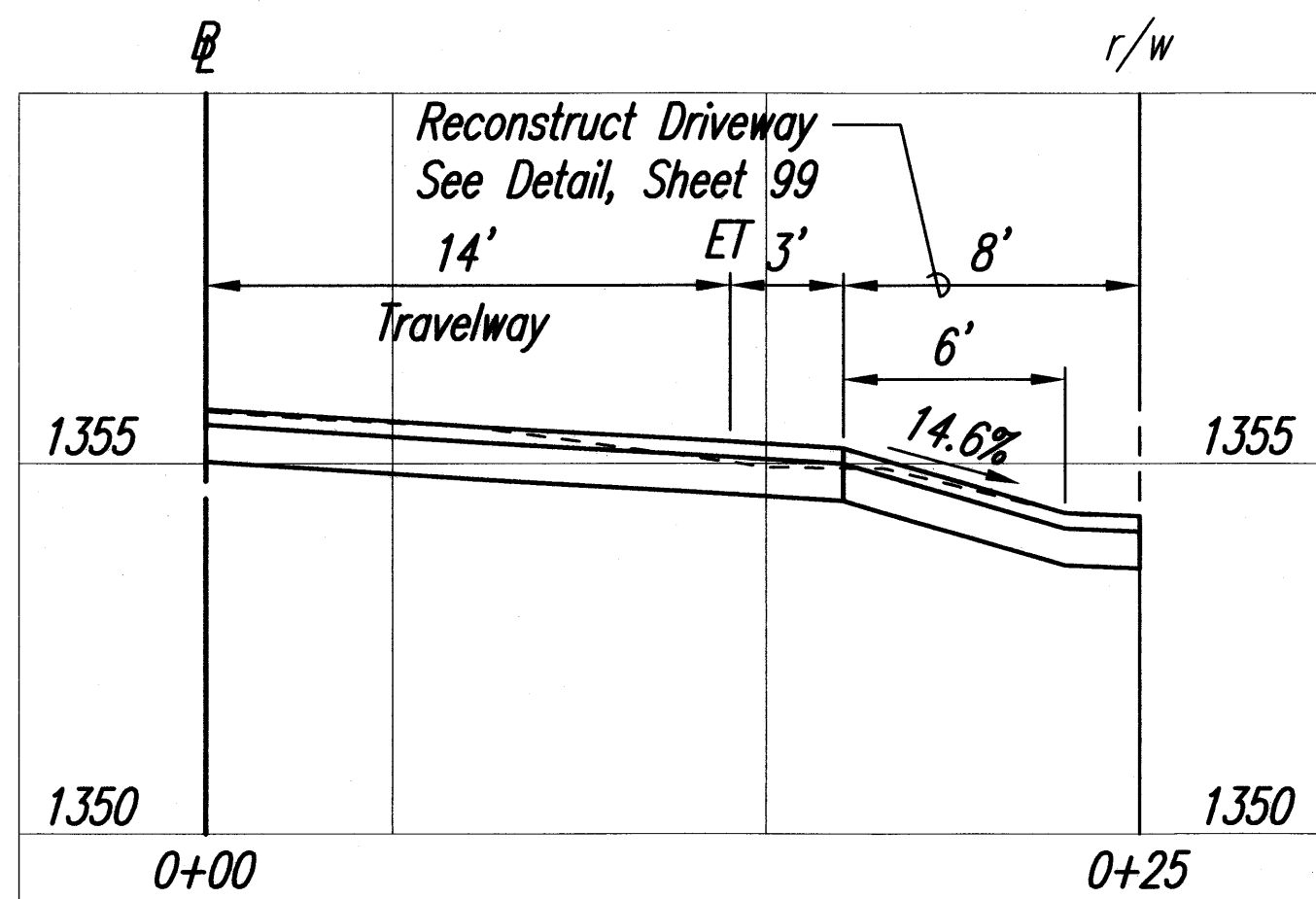
SHEET No. 11 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	60	141

TMK:1-7-11:03
Owner: Iris/Deborah/Malcom/Jean Osaki
Lynette Mercado

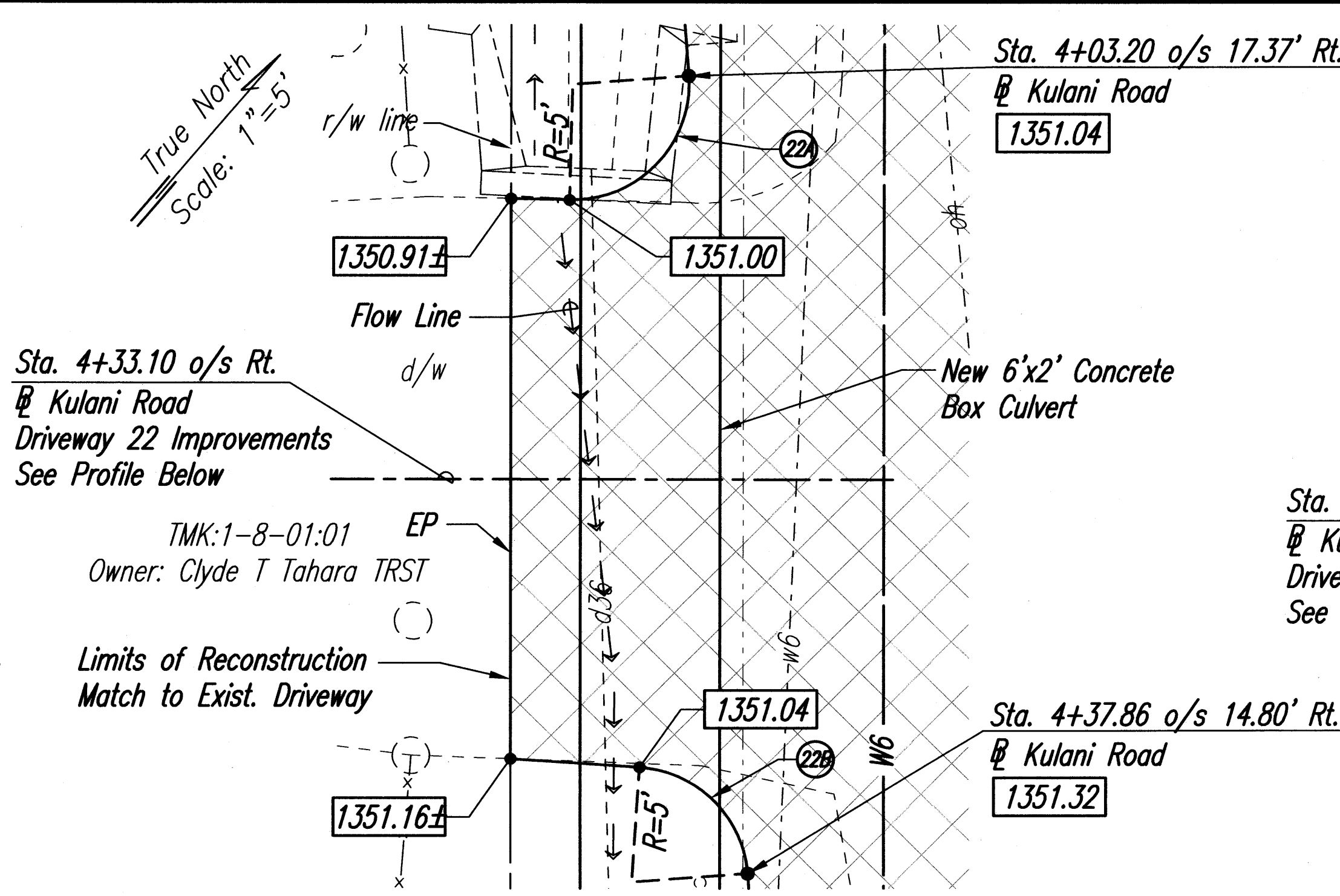


Driveway 21 - Plan
Scale: 1"= 5'-0"

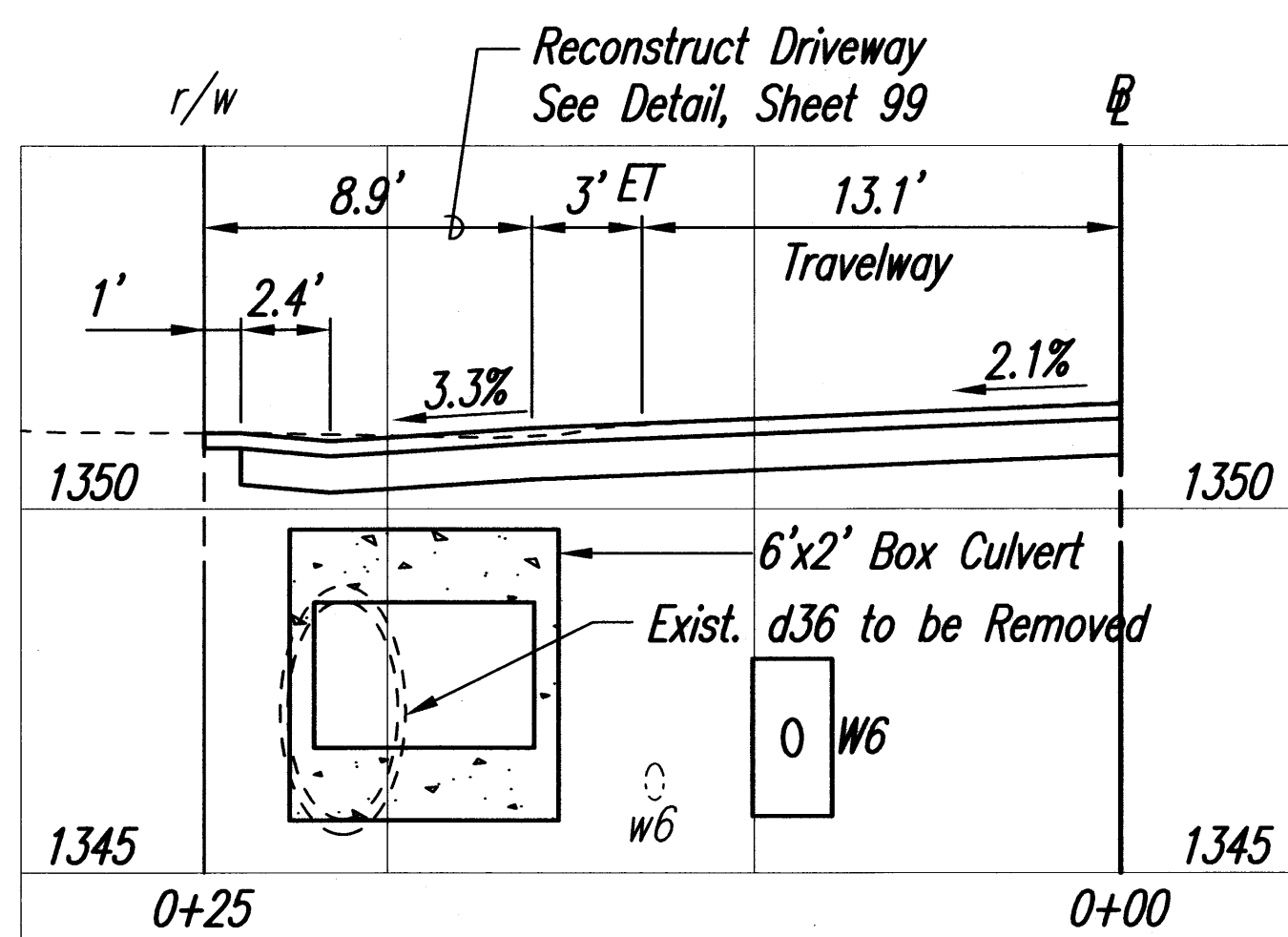


Driveway 21 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

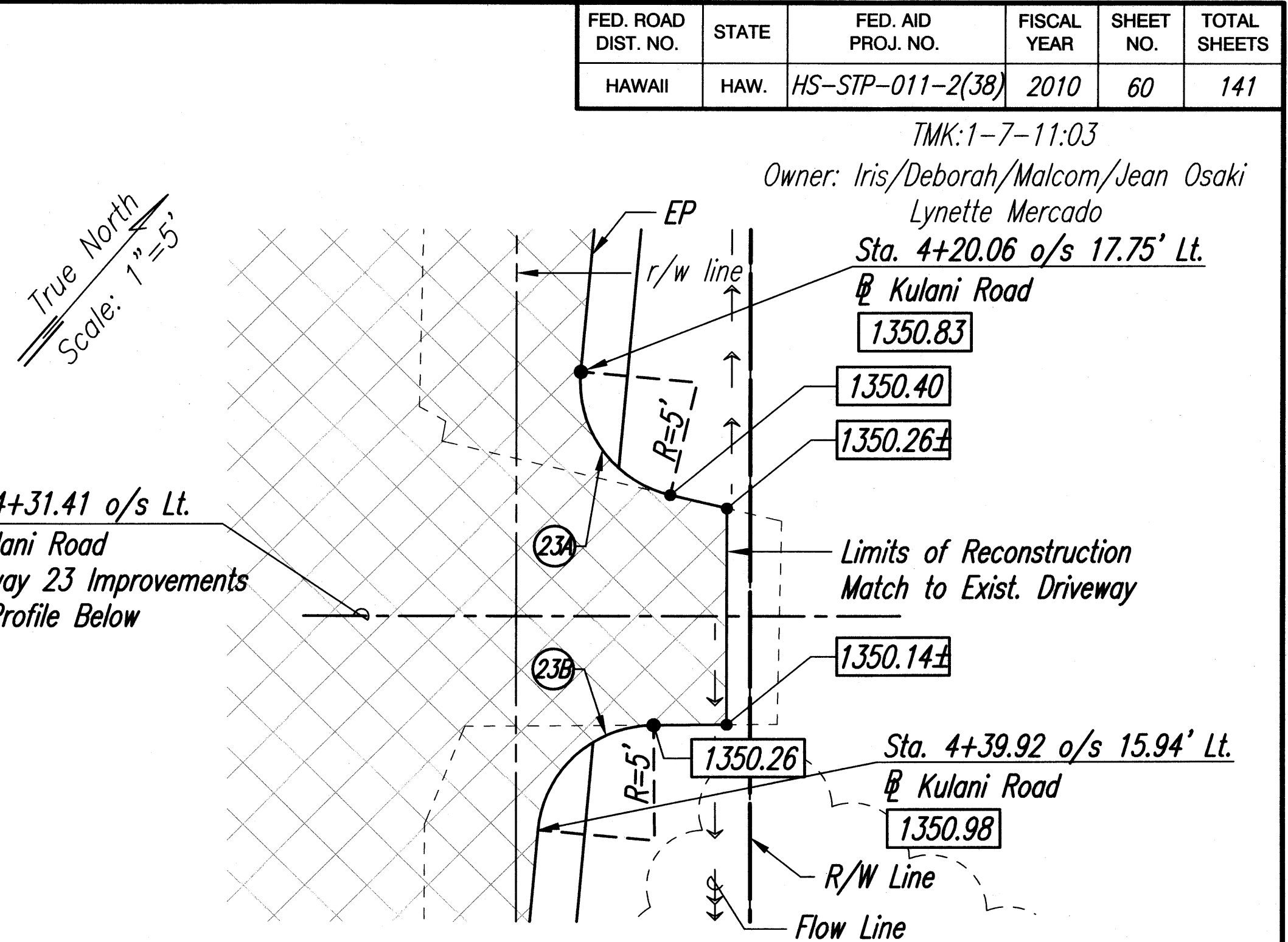
Curve	(22a)	(22b)	(23a)	(23b)
Δ	95°32'24"	81°52'27"	81°52'48"	84°23'41"
$\Delta/2$	47°46'12"	40°56'13"	40°56'24"	42°11'50"
R	5.00	5.00	5.00	5.00
T	5.51	4.34	4.34	4.53
C	7.40	6.55	6.55	6.72
Lc	8.34	7.14	7.14	7.36



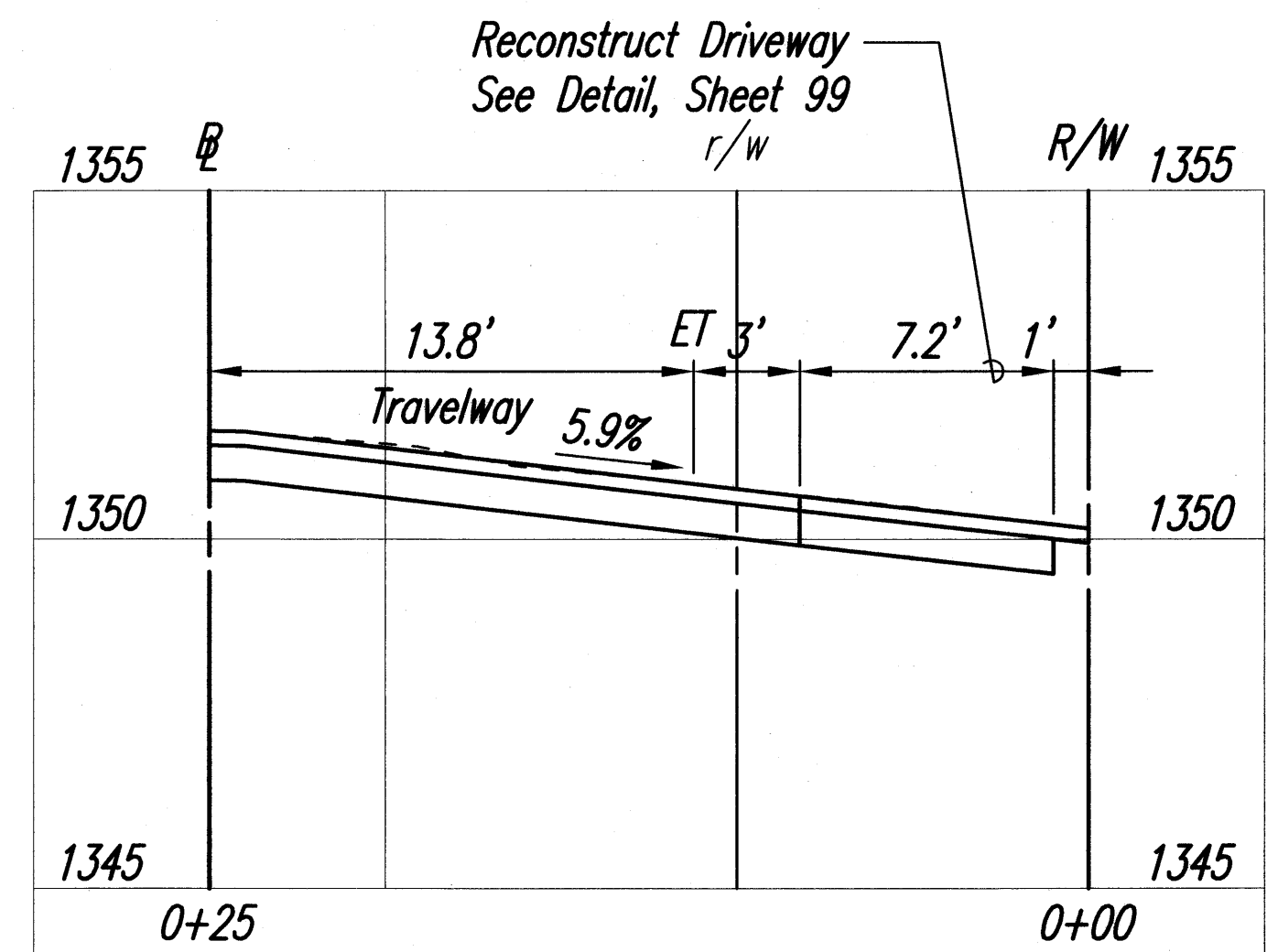
Driveway 22 - Plan
Scale: 1"= 5'-0"



Driveway 22 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

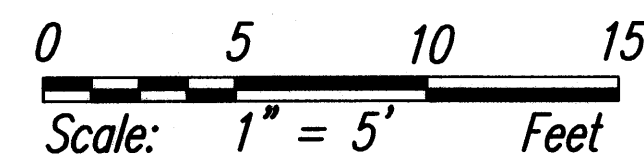


Driveway 23 - Plan
Scale: 1"= 5'-0"



Driveway 23 - Profile
Horiz. Scale: 1"= 5'-0"
Vert. Scale: 1"= 2'-6"

- Legend**
- Reconstructed AC Pav't.
 - d18-- Exist. Drainline
 - 1369.09 Finish Grade Elevation
 - 1369.28± Match to Exist. Ground, Contractor to Verify
 - (X) Curve Number



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**Volcano Road Intersection and
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Federal-Aid Project No. HS-STP-011-2(38)

Scale: As Noted Date: November 2010

SHEET No. 12 OF 12 SHEETS