

Legend:

- Denotes Access Permitted
- Denotes No Vehicle Access Permitted
- Denotes Limited Access as Noted on Plan
- Curve Number See "General Plan".
- Grassed Area
- Wire Fence

Sta. 46+12± Provide Smooth Riding Connection to Existing A.C. Contractor Shall Submit to Engineer Field Verification of Exist. A.C. Grades and Shall Call to Engineer's Attention the Need to Adjust New A.C. Finish Grades to Provide a Smooth Riding Connection. Cost Shall be Incidental to the Various Items of Work.

HC&S Field 603

Sta. 47+00 Match Into Graded Field Road Constructed by Others in Phase 1

Access Permitted for Agricultural Purposes Only, 50' Wide (No Fence)

Sta. 49+20± New Pavement for Truck Crossing and Paved Median. See Geometric Layout No.4, See Sheet 25
Sta. 48+90 End Wire Fence

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	32	288

Provide Smooth Transition Between Pavement and Field Road

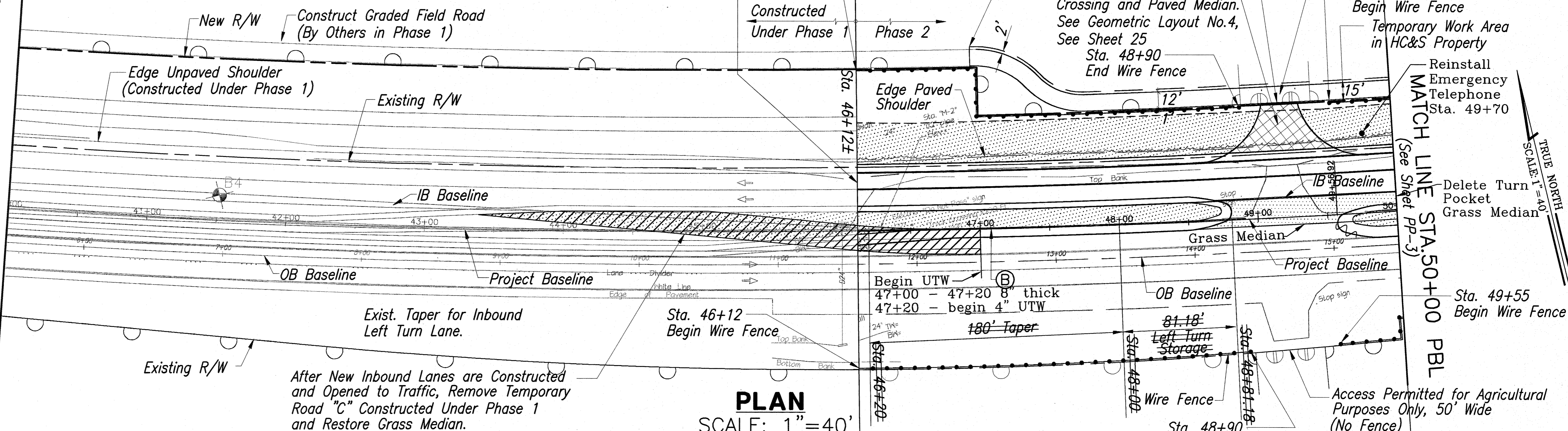
Sta. 49+55 Begin Wire Fence
Temporary Work Area in HC&S Property

Reinstall Emergency Telephone Sta. 49+70

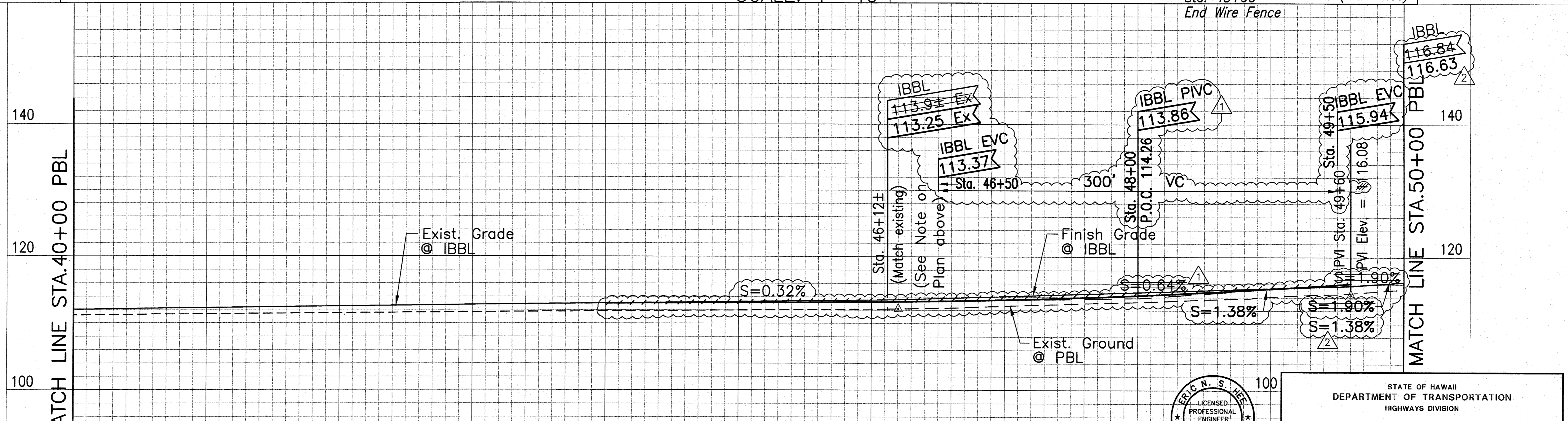
Delete Turn Pocket Grass Median

Sta. 49+55 Begin Wire Fence

Access Permitted for Agricultural Purposes Only, 50' Wide (No Fence)



PLAN
SCALE: 1"=40'

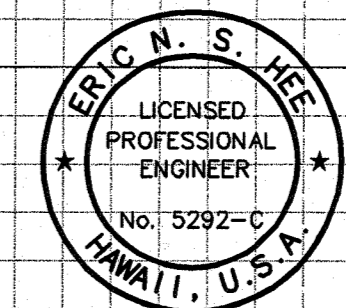


PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE

STA. 40+00 TO STA. 50+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: SEP., 2005

SHEET No. PP-2 OF 26 SHEETS

DATE	REVISION
11/02/06	REVISED IBBL ELEV. AT STA. 50+00 TO 116.63; REVISED FINISH SLOPE
9/28/06	REVISED PROFILE FROM 46+12 TO 49+60

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
ENGINEERS SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 4/30/08

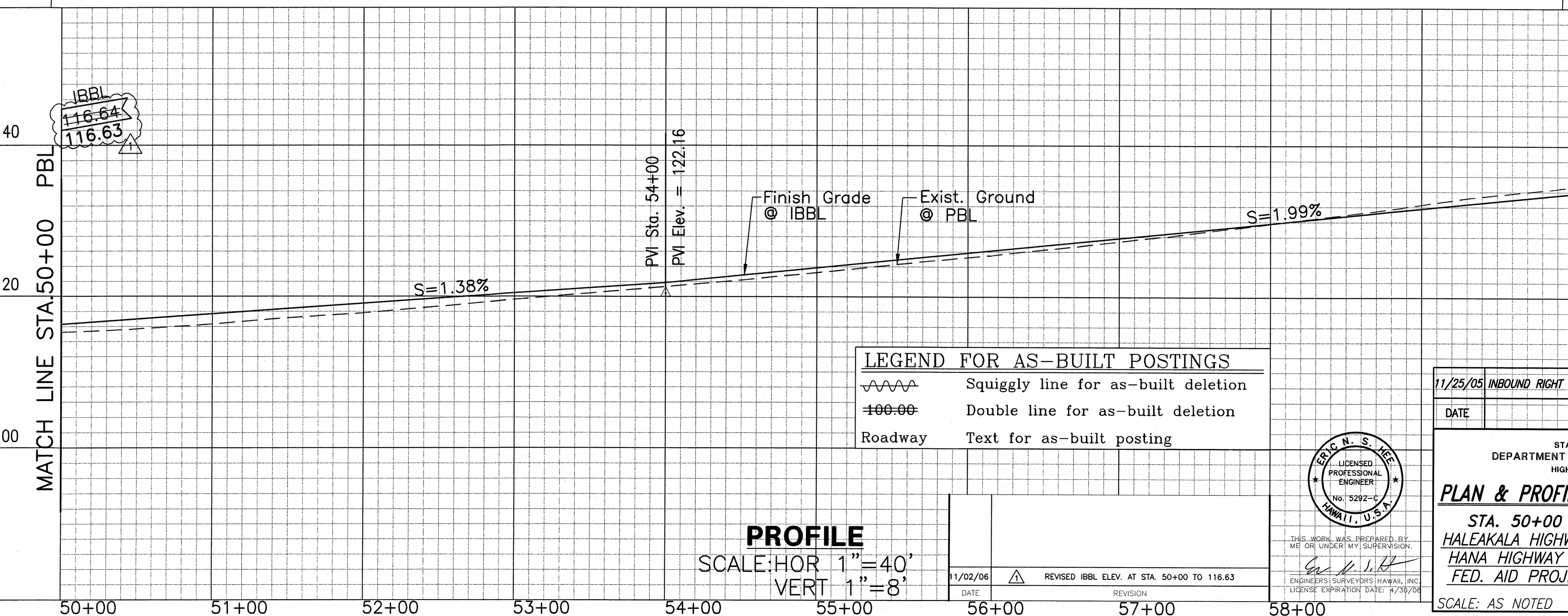
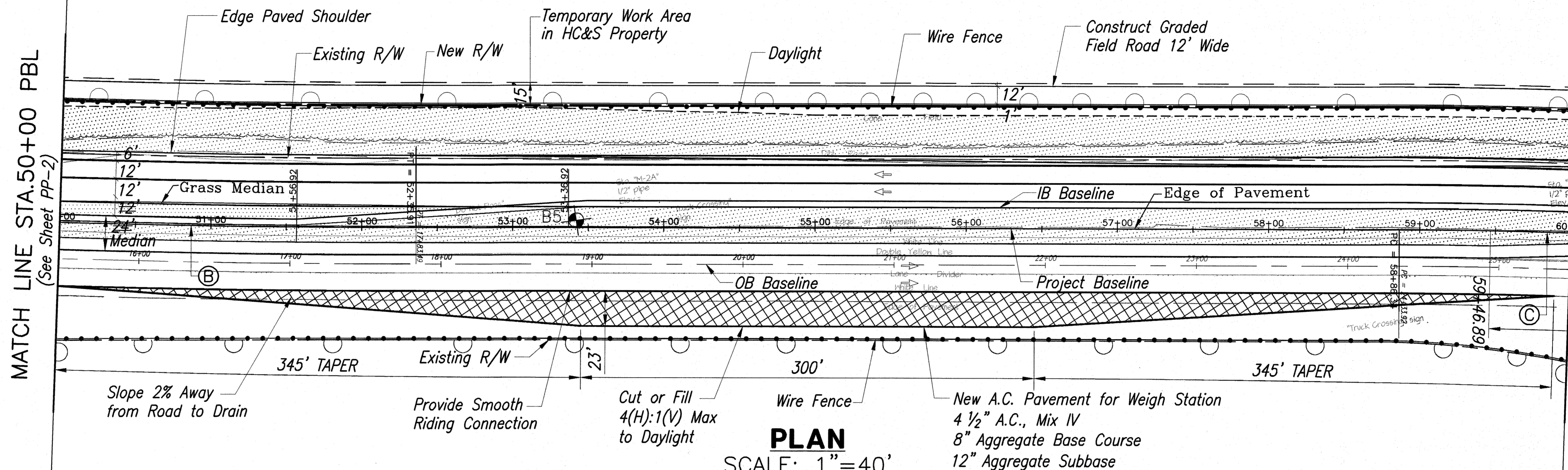
HC&S Field 603

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	33	288

Legend:

ⓑ Curve Number See "General Plan".

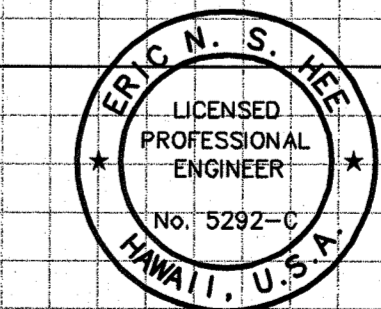
See Sheet 32 for Additional Legend.



LEGEND FOR AS-BUILT POSTINGS

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

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



11/25/05	INBOUND RIGHT SHOULDER DRAWN TO 6' DIMENSION.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.

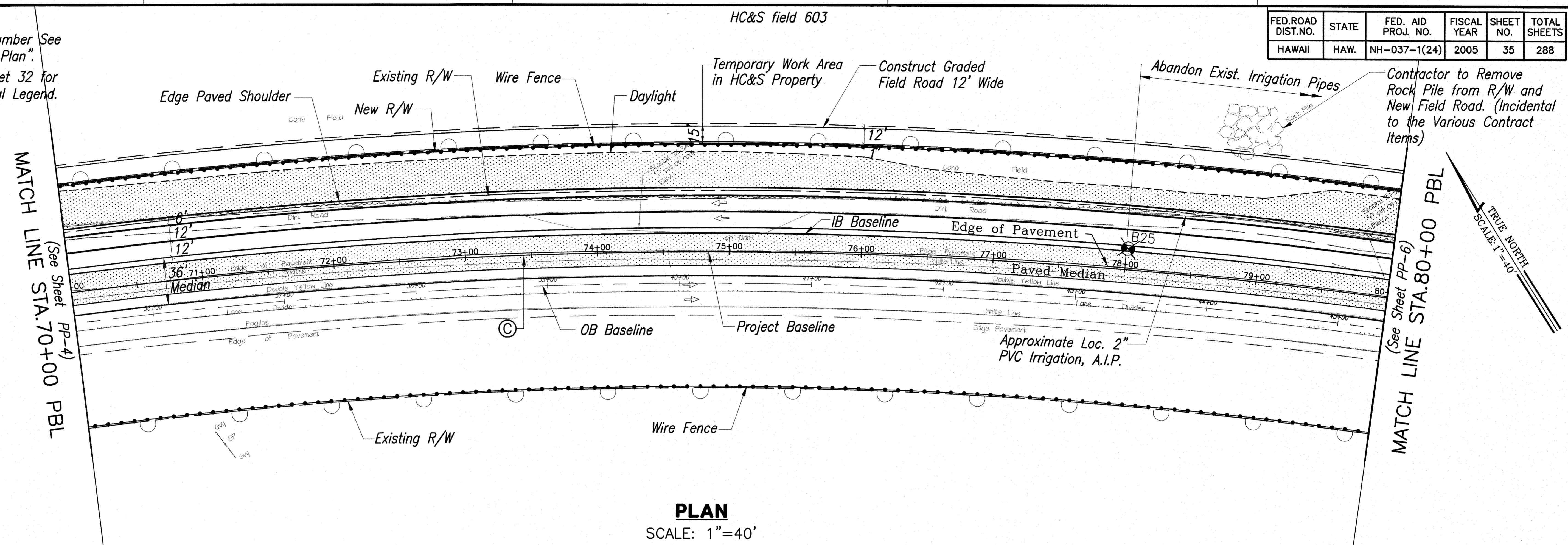
STA. 50+00 TO STA. 60+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

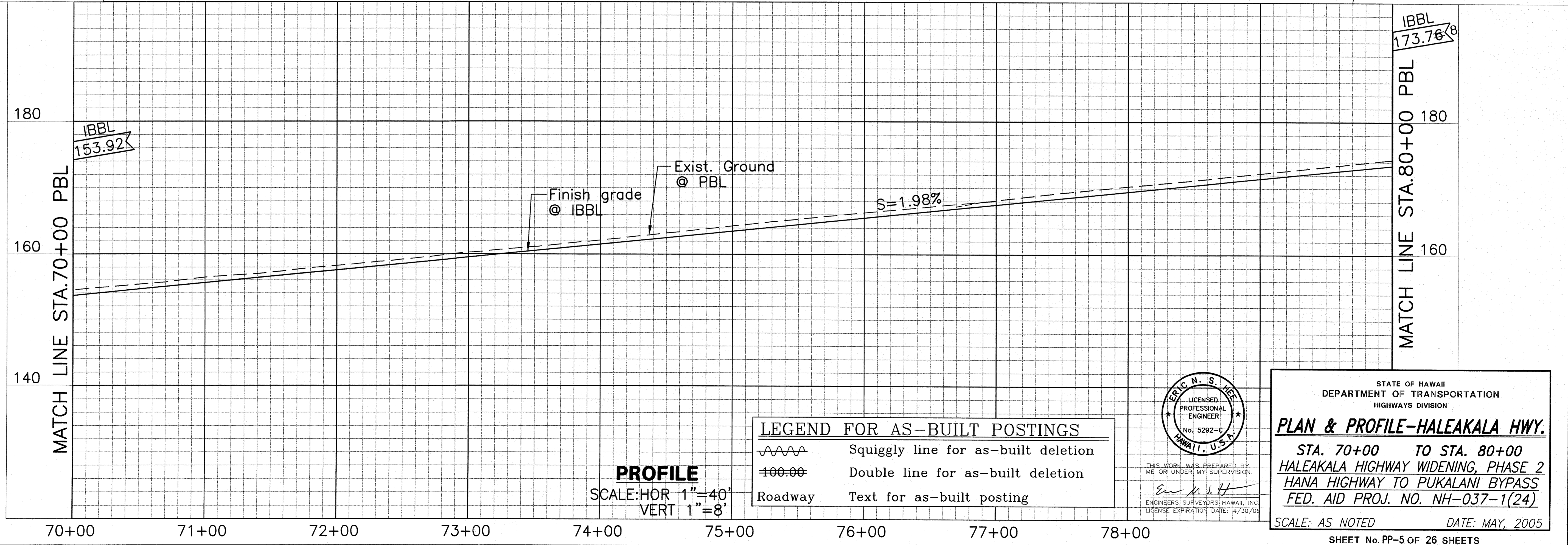
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	35	288

Legend:

⊙ Curve Number See "General Plan".
See Sheet 32 for Additional Legend.



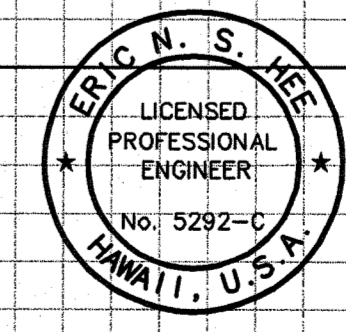
PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Eric N. S. Kee
ENGINEERS SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 6/30/06

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.

STA. 70+00 TO STA. 80+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

SHEET No. PP-5 OF 26 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

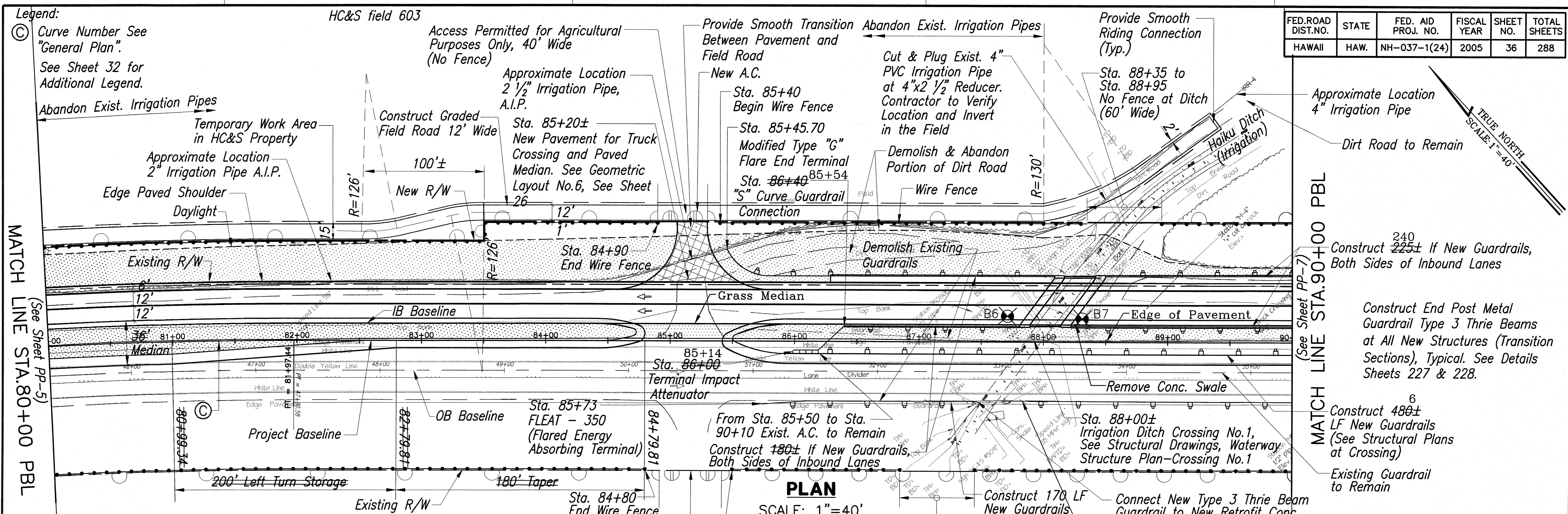
11/28/05 11:58 AM Engineering Projects 11/28/05 Haleakala Hwy Phase 2 - ASBUILT PLAN (15'-45800) Long Way, Nov 25 2005 - 4:40pm

AS-BUILT

Legend:

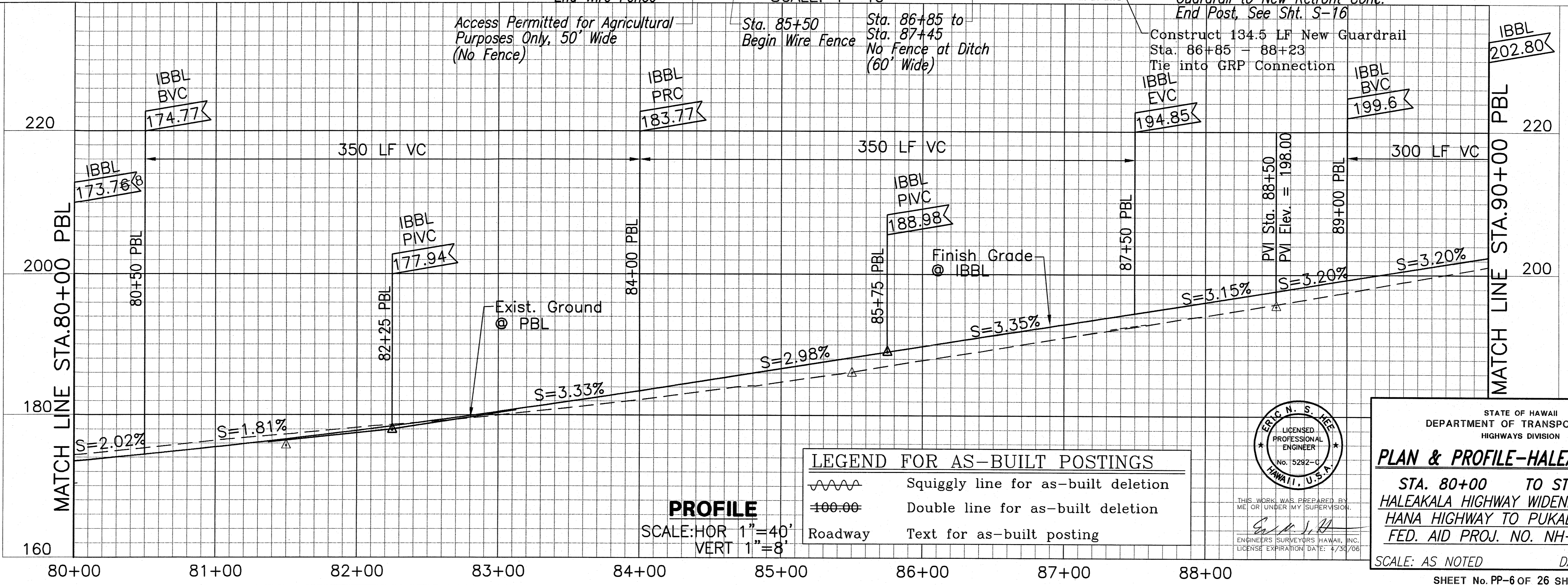
Curve Number See "General Plan".
See Sheet 32 for Additional Legend.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	36	288



PLAN

SCALE: 1"=40'

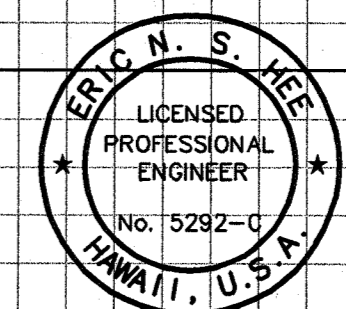


PROFILE

SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN & PROFILE-HALEAKALA HWY.

STA. 80+00 TO STA. 90+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: SEP., 2005

SHEET No. PP-6 OF 26 SHEETS

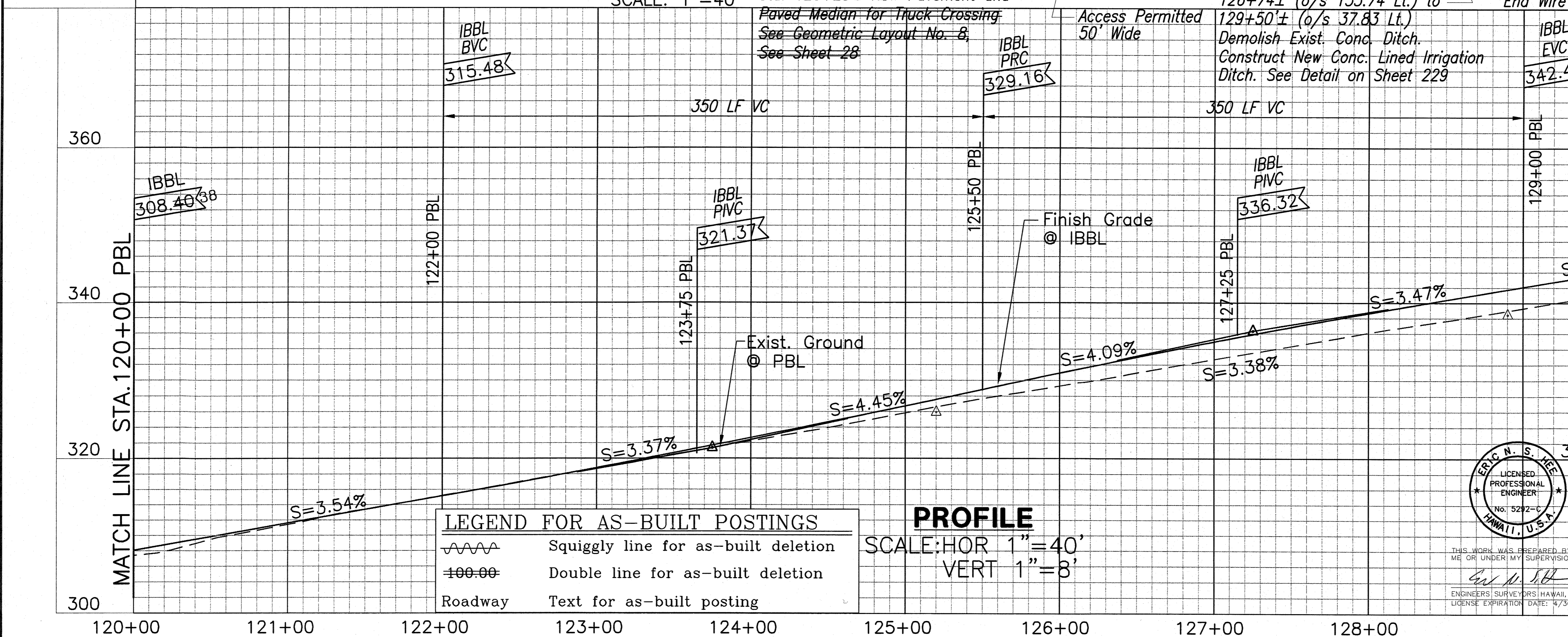
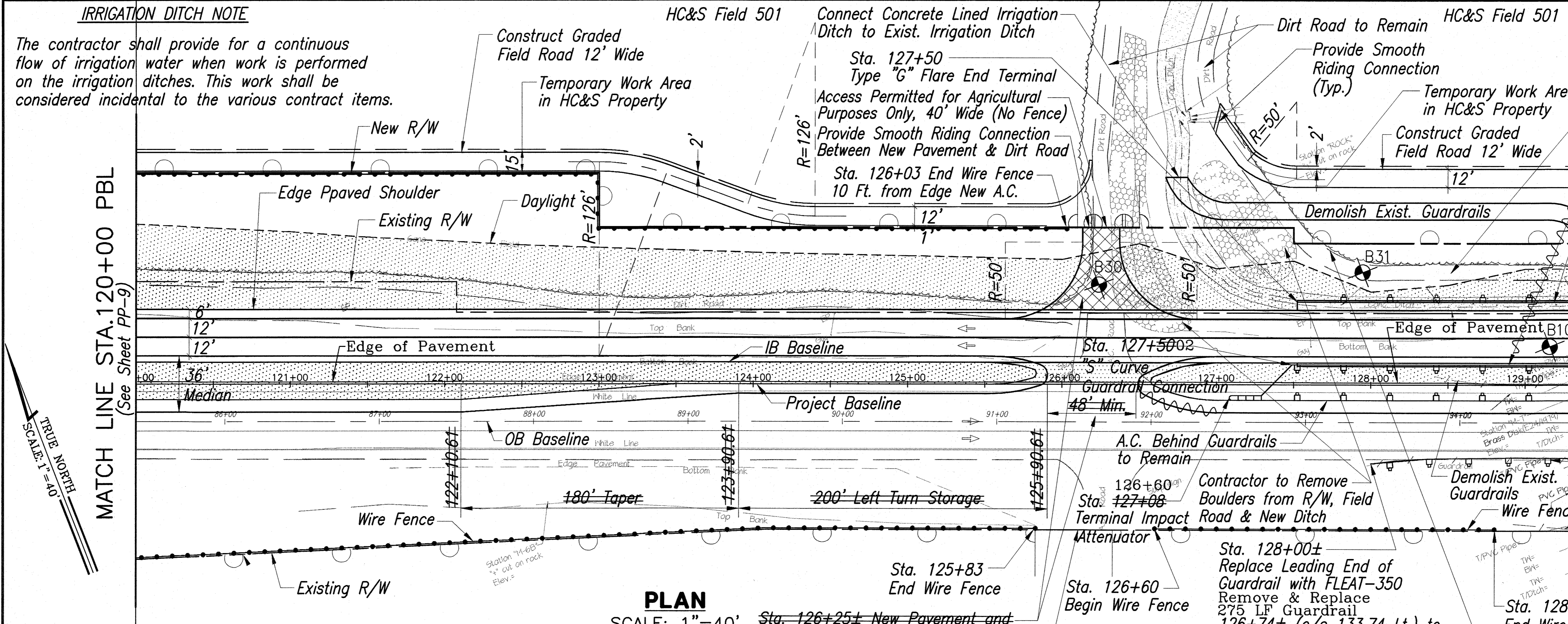
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

E:\1\enr\Engineering\Projects\1994\19-106\Haleakala Hwy\Phase 2 - AS-BUILT\PP-6.dwg, Nov 23 2005 - 4:42pm

AS-BUILT

36

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	40	288



IRRIGATION DITCH NOTE
The contractor shall provide for a continuous flow of irrigation water when work is performed on the irrigation ditches. This work shall be considered incidental to the various contract items.

Demolish & Abandon Exist. Dirt Road
Construct 180± LF New Guardrail on Both Sides of Inbound Lanes.
Sta. 129+70 Begin Wire Fence
Contractor to Protect PVC Pipes from Damage. Reroute PVC Pipes to Suit Field Conditions During Construction.

KEYNOTE:
1 Replace 120 LF 10" and 12" PVC pipes that need to be relocated. Verify connection with HC&S.

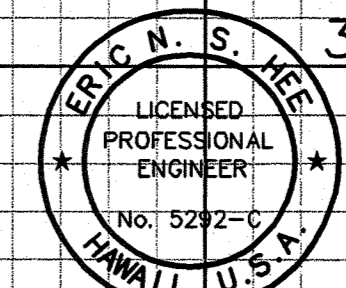
Exist. Guardrails to Remain
129+50± Irrigation Ditch Crossing No. 2, see structural drawings, waterway structure plan crossing No. 2

SURVEY PLOTTED BY: _____ DATE: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____
 \E:\as-built\Engineering\Projects\1994\194-205\Haleakala Hwy\Phase 2 - AS-BUILT\PP-10F\10-AS-BUILT Long Wd., Nov. 25 2009 - 4:50pm

LEGEND FOR AS-BUILT POSTINGS

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

PROFILE
SCALE: HOR 1"=40'
VERT 1"=3'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.

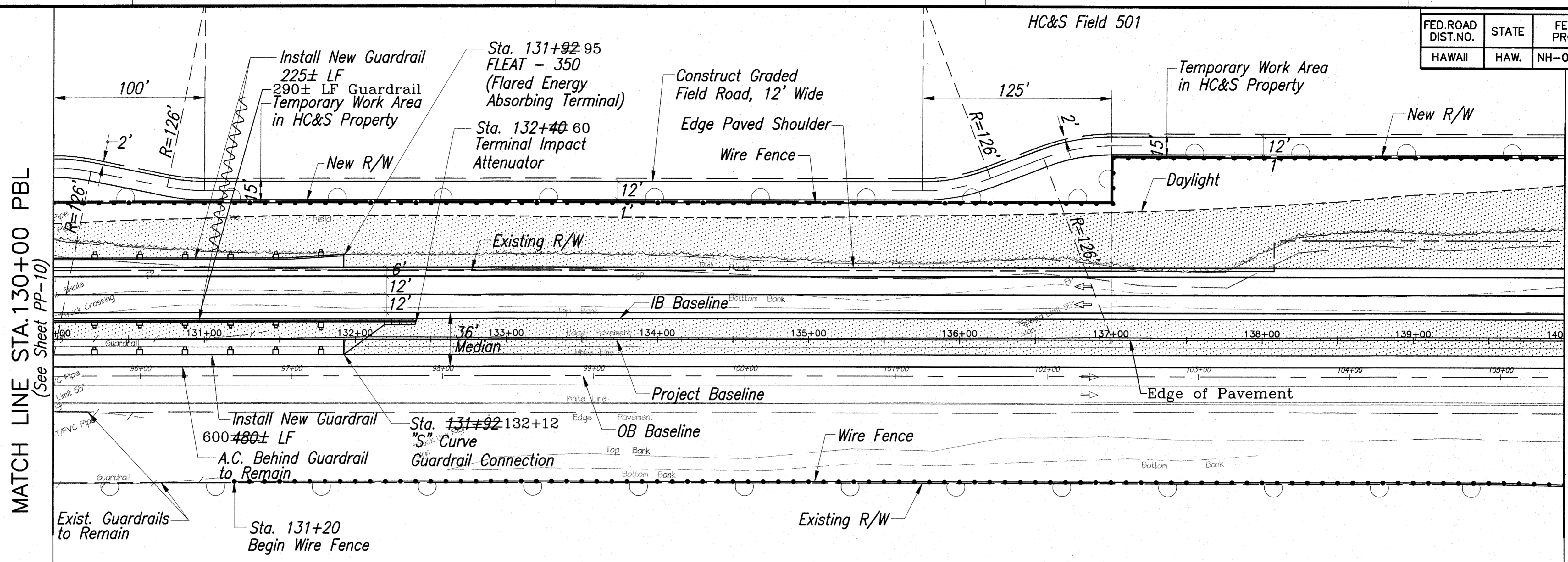
STA. 120+00 TO STA. 130+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: SEP., 2005

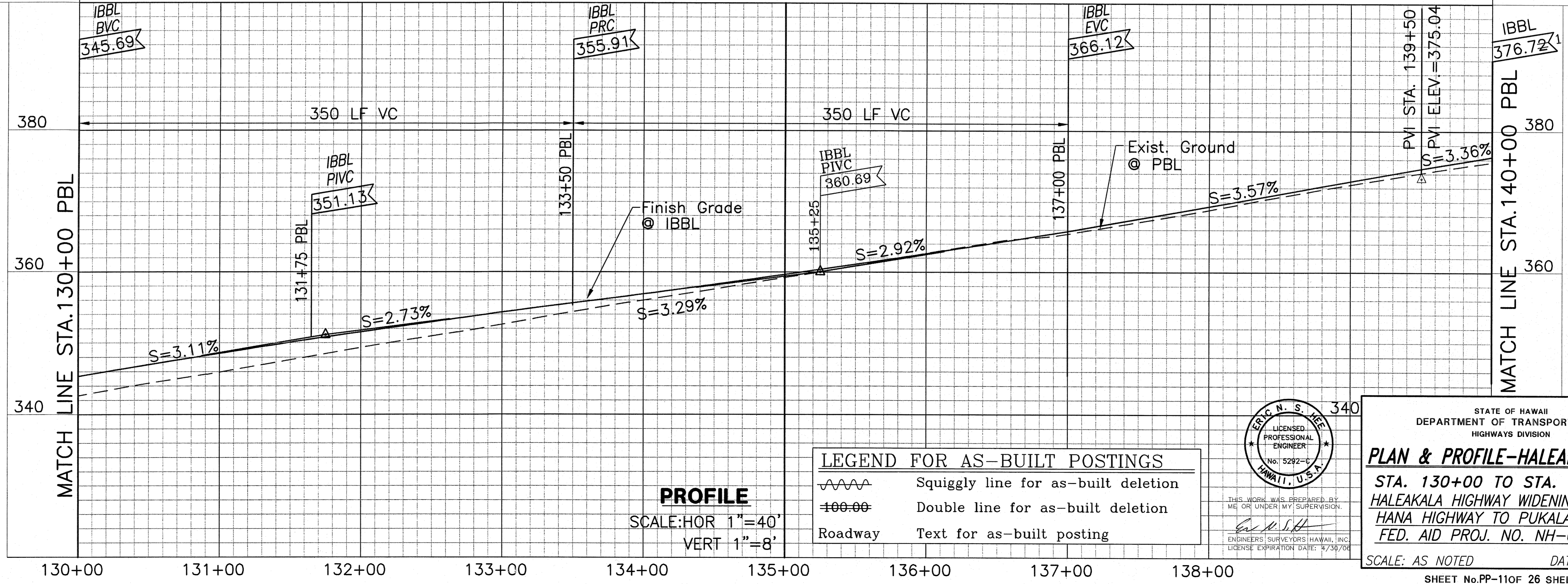
SHEET No. PP-10OF 26 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	41	288



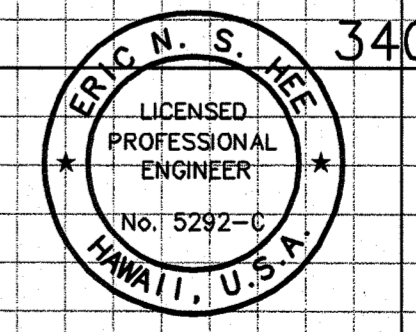
PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
STA. 130+00 TO STA. 140+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005
SHEET No. PP-110F 26 SHEETS

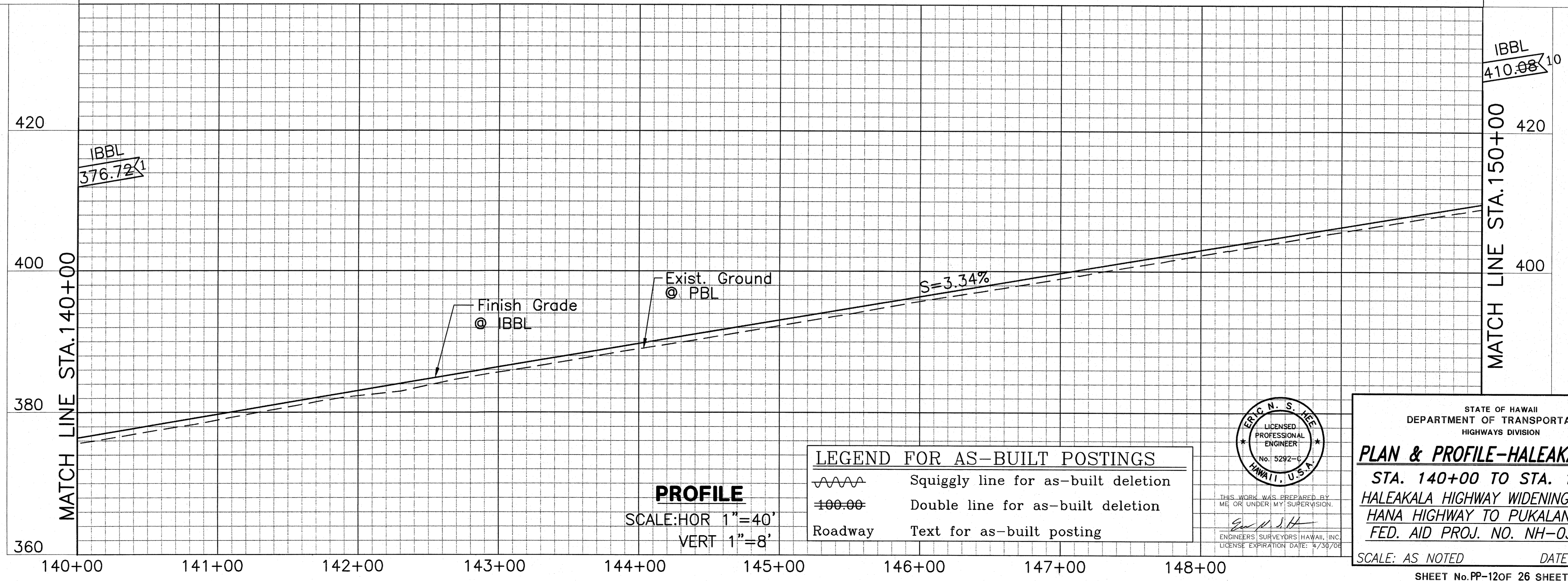
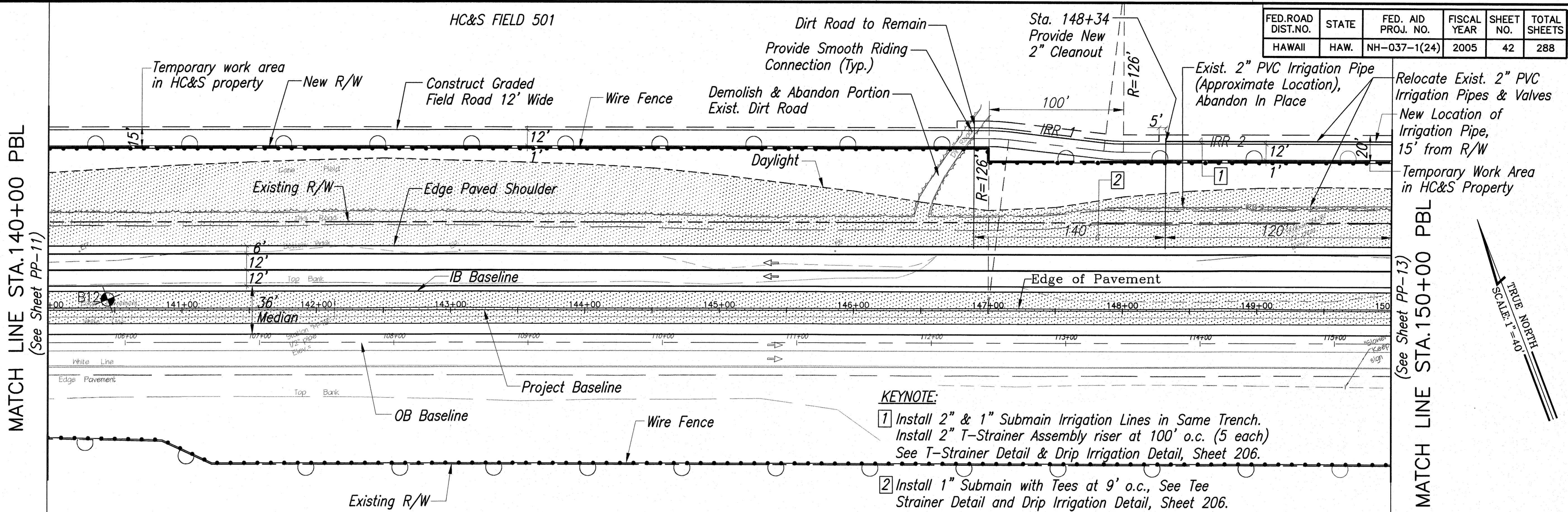
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

11-Ein-1 (en) Engineering Projects 15641 (84-035) Haleakala Hwy Phase 2 - AS-BUILT (Plan) (en) 41-AS-BUILT (Plan) Rev. 25 2009 - 4:51 pm

MATCH LINE STA. 140+00 PBL
(See Sheet PP-12)
TRUE NORTH
SCALE: 1"=40'

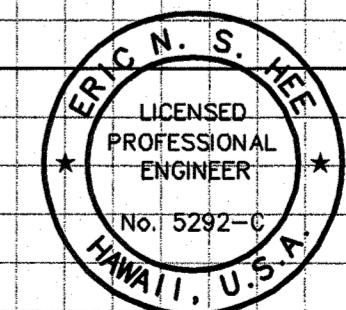
AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	42	288



LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
STA. 140+00 TO STA. 150+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

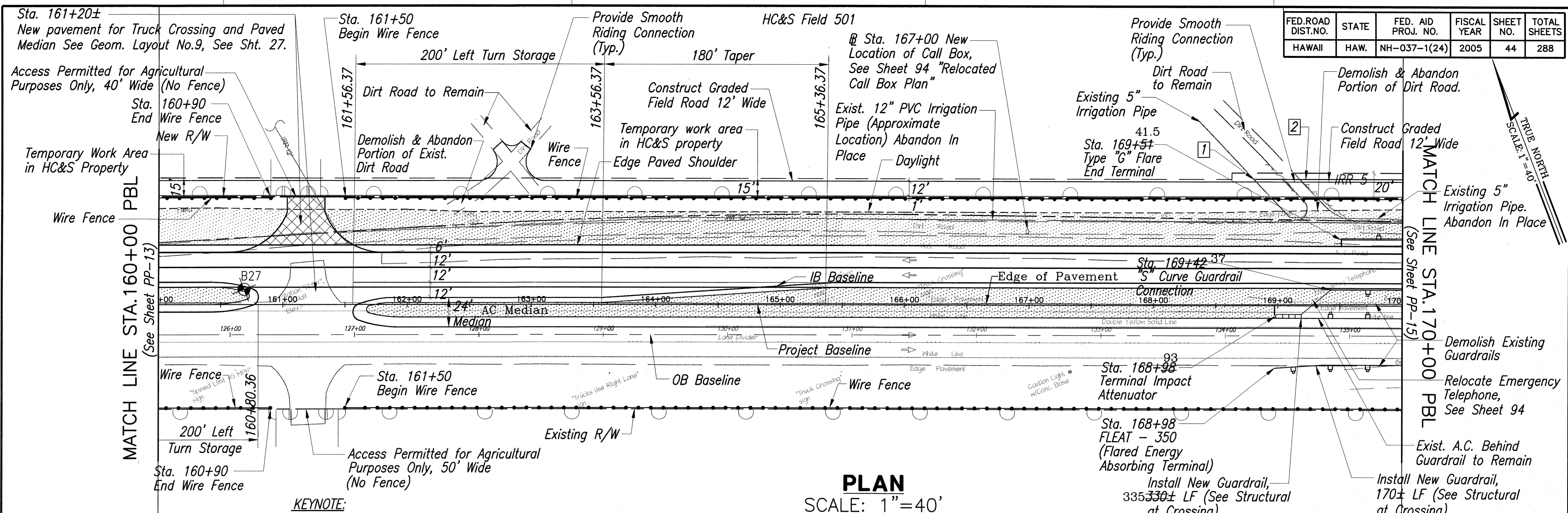
SCALE: AS NOTED DATE: MAY, 2005
SHEET No. PP-120F 26 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

11/15/05 - 11/15/05 Engineering Projects 11504184-055 Hanaoka Hwy Phase 2 - ASBUILT PP-120F 26 SHEETS Long Wd. Nov 25 2005 - 4:54pm

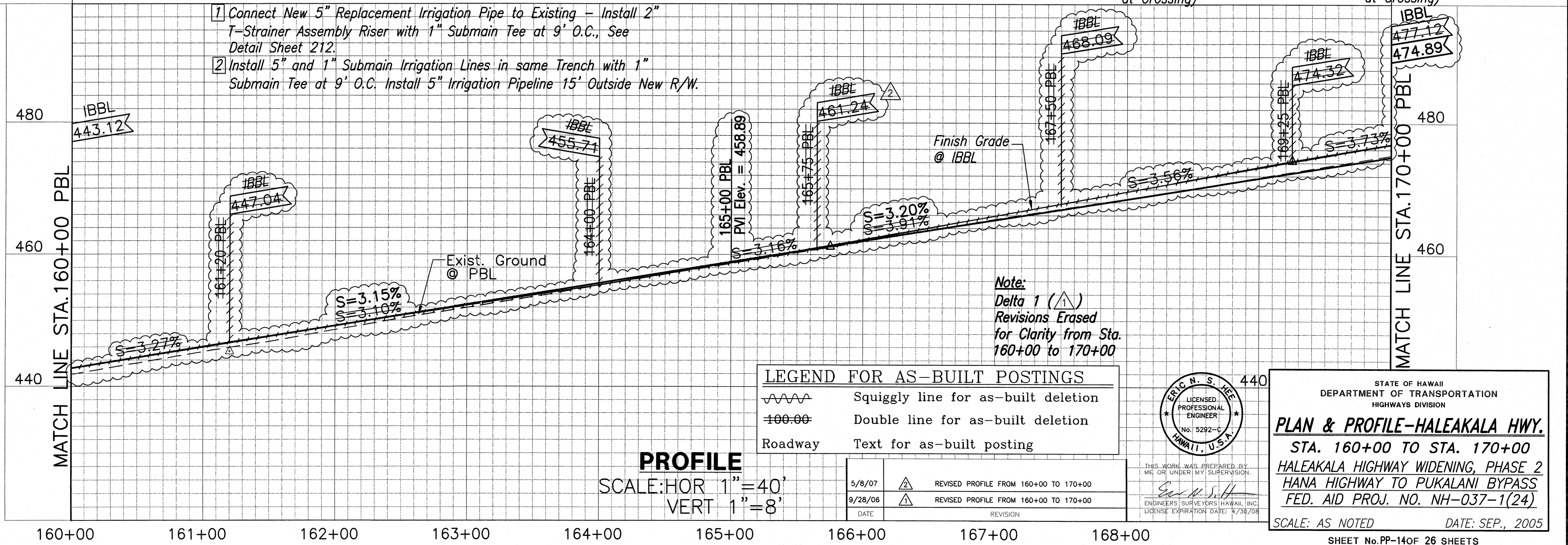
AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	44	288



PLAN
SCALE: 1" = 40'

- KEYNOTE:**
- 1 Connect New 5" Replacement Irrigation Pipe to Existing - Install 2" T-Strainer Assembly Riser with 1" Submain Tee at 9' O.C., See Detail Sheet 212.
 - 2 Install 5" and 1" Submain Irrigation Lines in same Trench with 1" Submain Tee at 9' O.C. Install 5" Irrigation Pipeline 15' Outside New R/W.

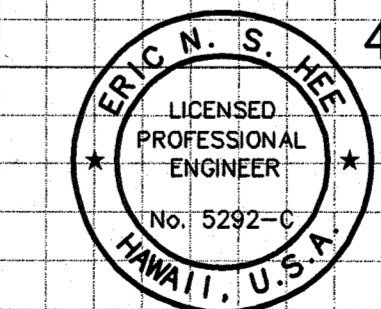


PROFILE
SCALE: HOR 1" = 40'
VERT 1" = 8'

LEGEND FOR AS-BUILT POSTINGS

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

DATE	REVISION
5/8/07	Δ REVISED PROFILE FROM 160+00 TO 170+00
9/28/06	Δ REVISED PROFILE FROM 160+00 TO 170+00



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Eric N. S. Hee
ENGINEER'S SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 8/30/08

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
STA. 160+00 TO STA. 170+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

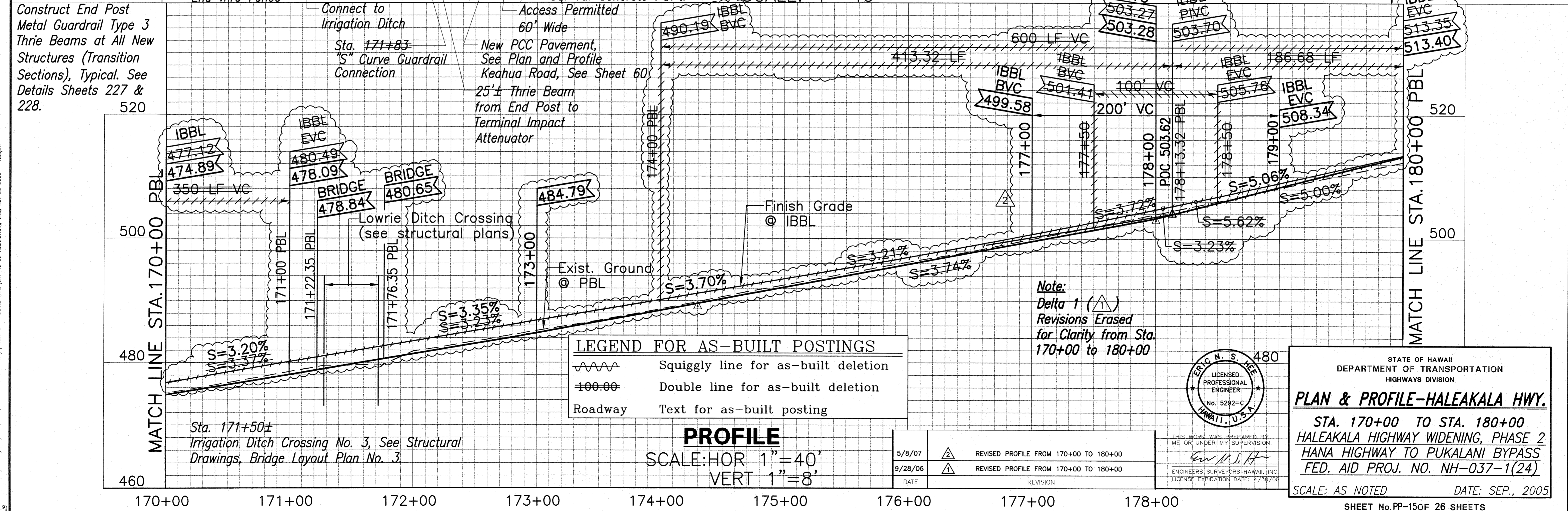
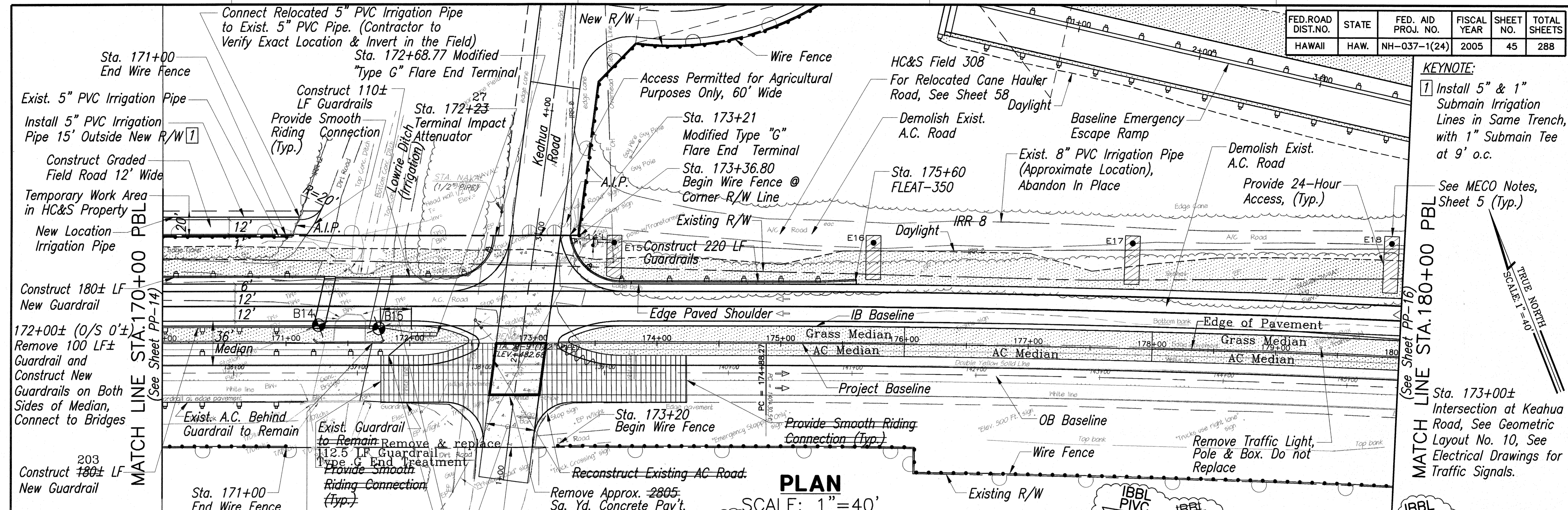
SCALE: AS NOTED DATE: SEP., 2005
SHEET No. PP-14OF 26 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

1 (En-1) Engr. Engineering Projects 11/2004 1/24-1/25/05 Hialeakala Hwy Phase 2 - AS-BUILT/PP/SHT 44 co-AS-BUILT Comp. Mod. Nov. 25 2009 - 4:56pm

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	45	288

KEYNOTE:
 1 Install 5" & 1" Submain Irrigation Lines in Same Trench, with 1" Submain Tee at 9' o.c.
 See MECO Notes, Sheet 5 (Typ.)

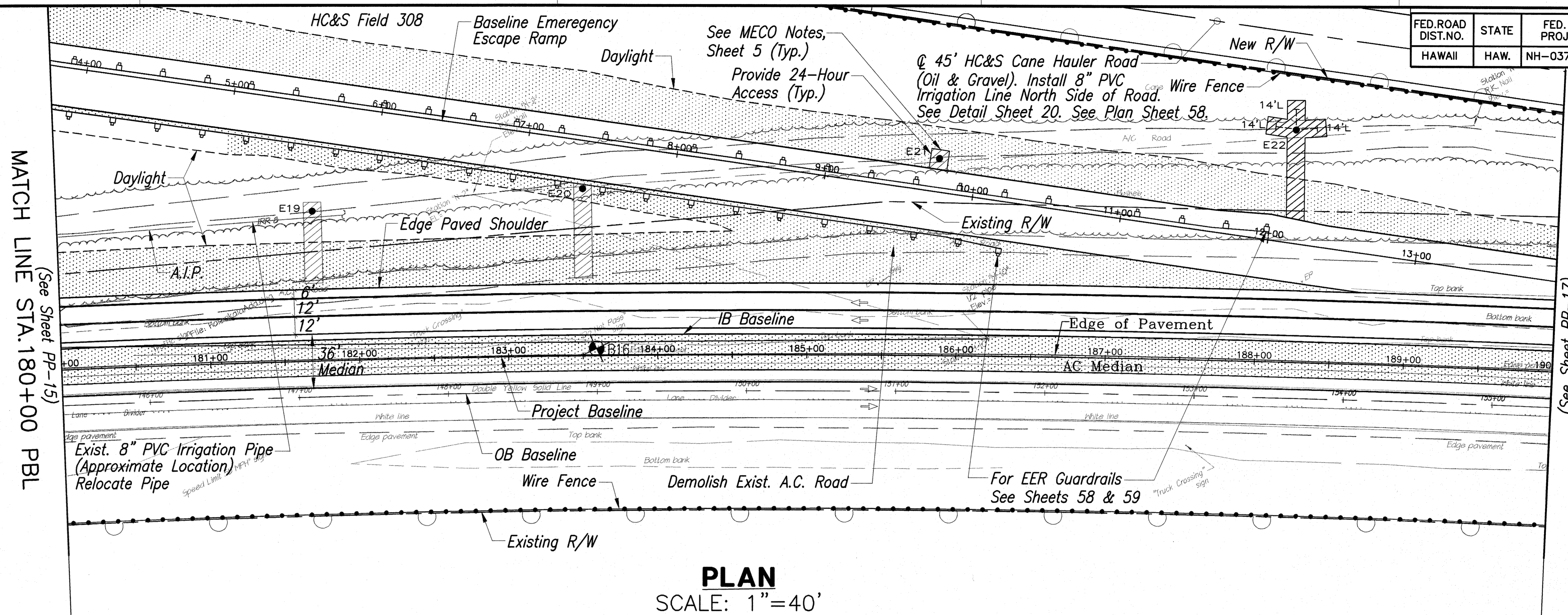


ORIGINAL PLAN	DATE
DESIGNED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

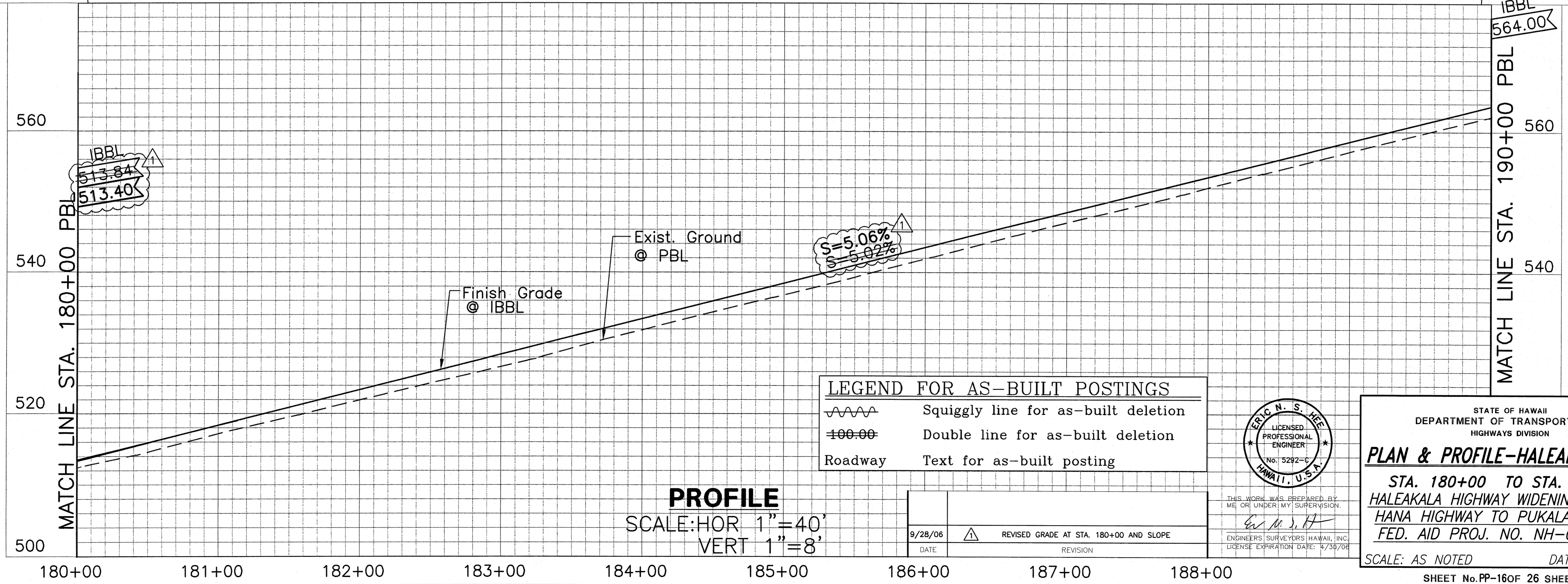
1 (En-1) Enr Engineering Projects 11541 114-1057 /alekalea Hwy/Phase 2 - 1057/11400/SHR 45 11-25-2009 - 4:30pm

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PLAN & PROFILE-HALEAKALA HWY.
 STA. 170+00 TO STA. 180+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)
 SCALE: AS NOTED DATE: SEP., 2005
 SHEET No. PP-15OF 26 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	46	288



PLAN
SCALE: 1"=40'



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.

STA. 180+00 TO STA. 190+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

9/28/06	REVISED GRADE AT STA. 180+00 AND SLOPE
DATE	REVISION

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Eric N. S. Hee
ENGINEER'S SURVEYORS HAWAII, INC.
LICENSE EXPIRATION DATE: 4/30/08

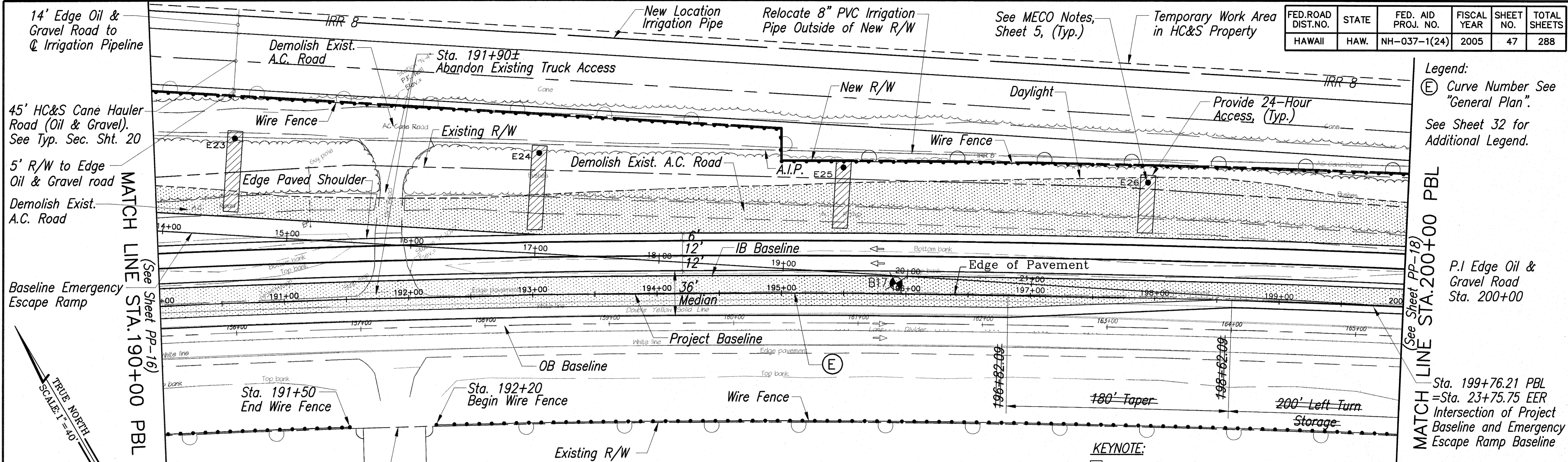
11/Est-1/ent/Engineering/Projects/1904/184-190/HALEAKALA HWY/Phase 2 - AS-BUILT/PP-160F 46 OF 26 SHEETS/Nov. 25 2005 - 4:59pm

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

AS-BUILT

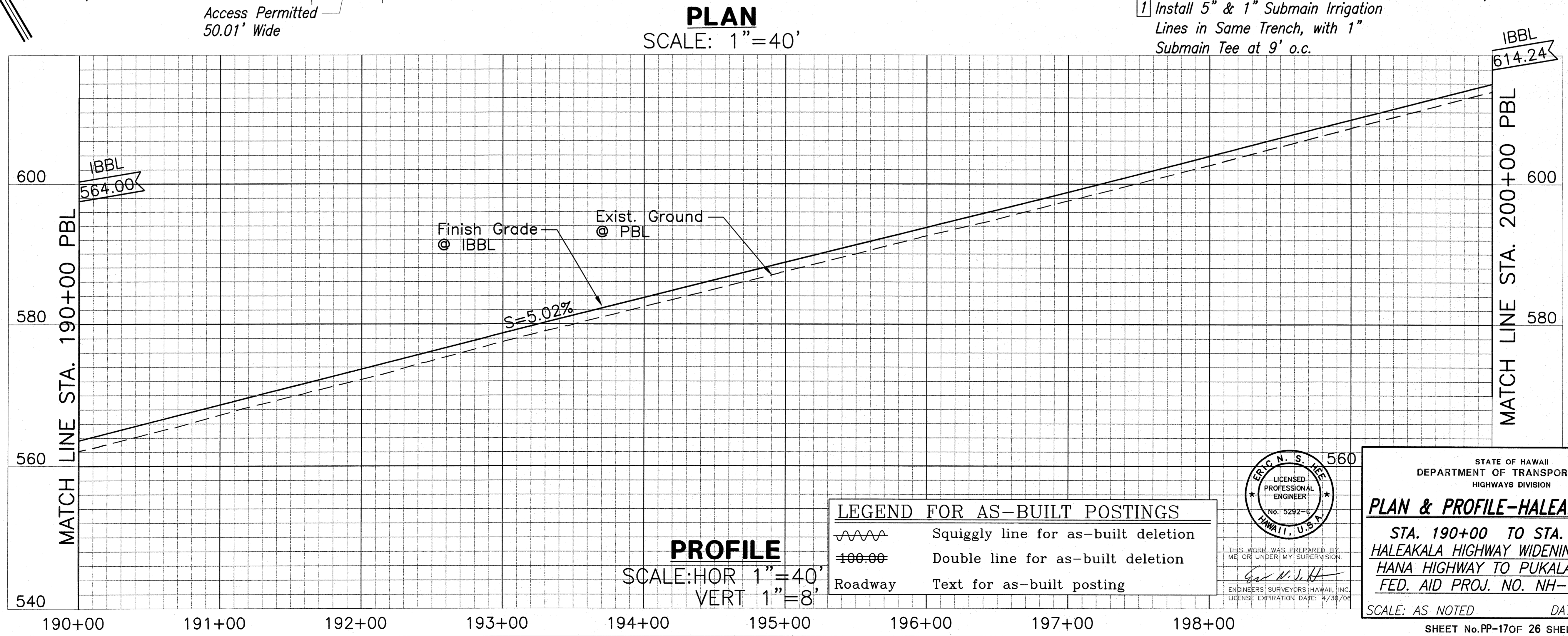
C.O. 46

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	47	288



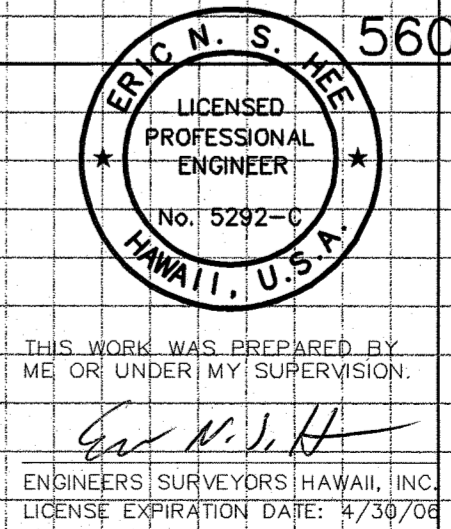
Legend:
 (E) Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.

KEYNOTE:
 1 Install 5" & 1" Submain Irrigation Lines in Same Trench, with 1" Submain Tee at 9' o.c.



LEGEND FOR AS-BUILT POSTINGS

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



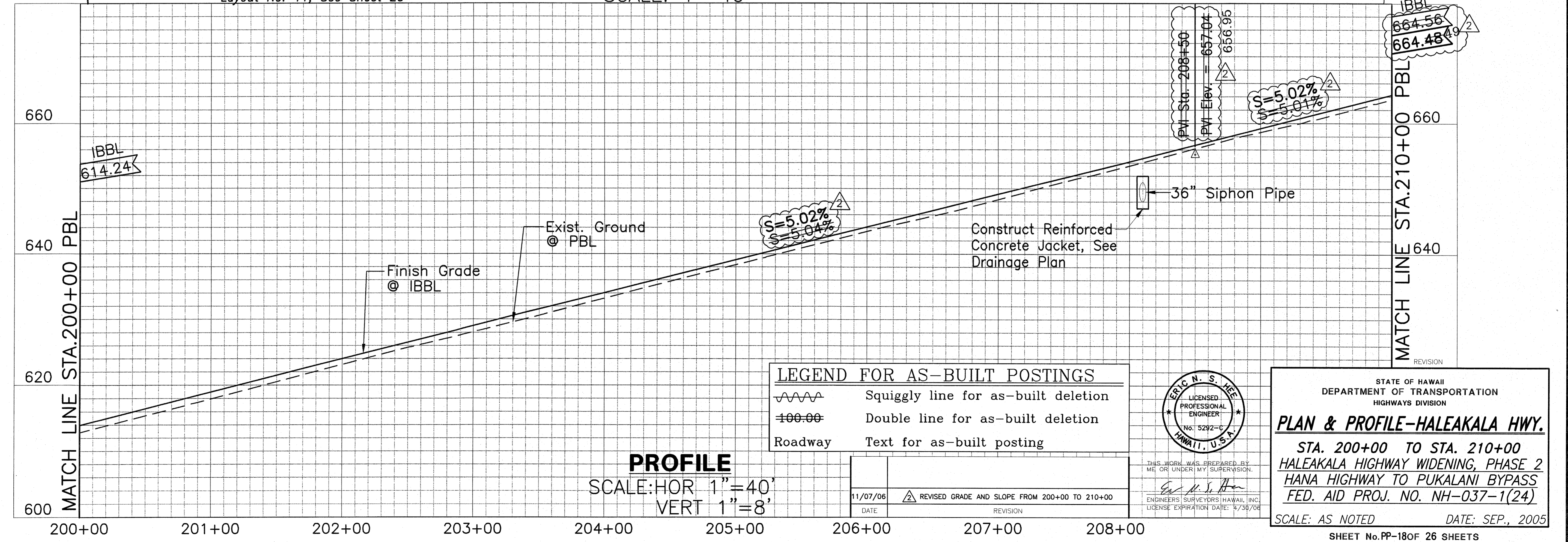
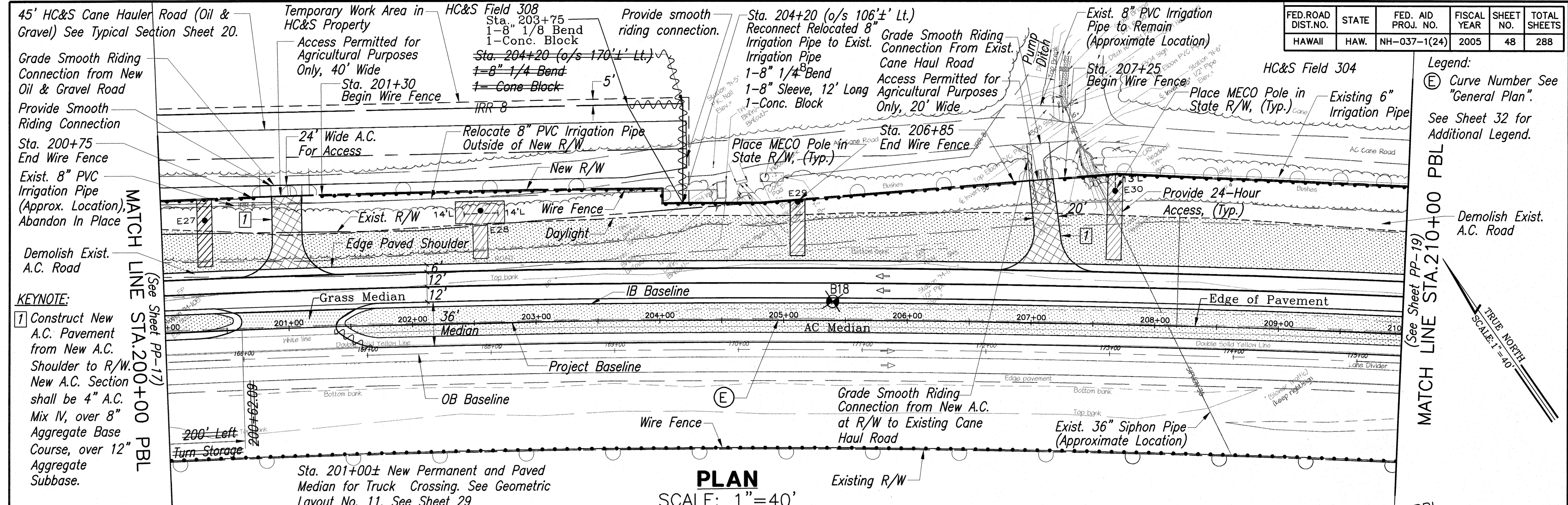
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PLAN & PROFILE-HALEAKALA HWY.
 STA. 190+00 TO STA. 200+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)
 SCALE: AS NOTED DATE: MAY, 2005
 SHEET No. PP-17OF 26 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

11/20/05-1/11/06 Engineering Projects 11/20/05-1/11/06 HAWAIIAN ENGINEERING, INC. 11/20/05-1/11/06 HAWAIIAN ENGINEERING, INC. 11/20/05-1/11/06 HAWAIIAN ENGINEERING, INC.

AS-BUILT

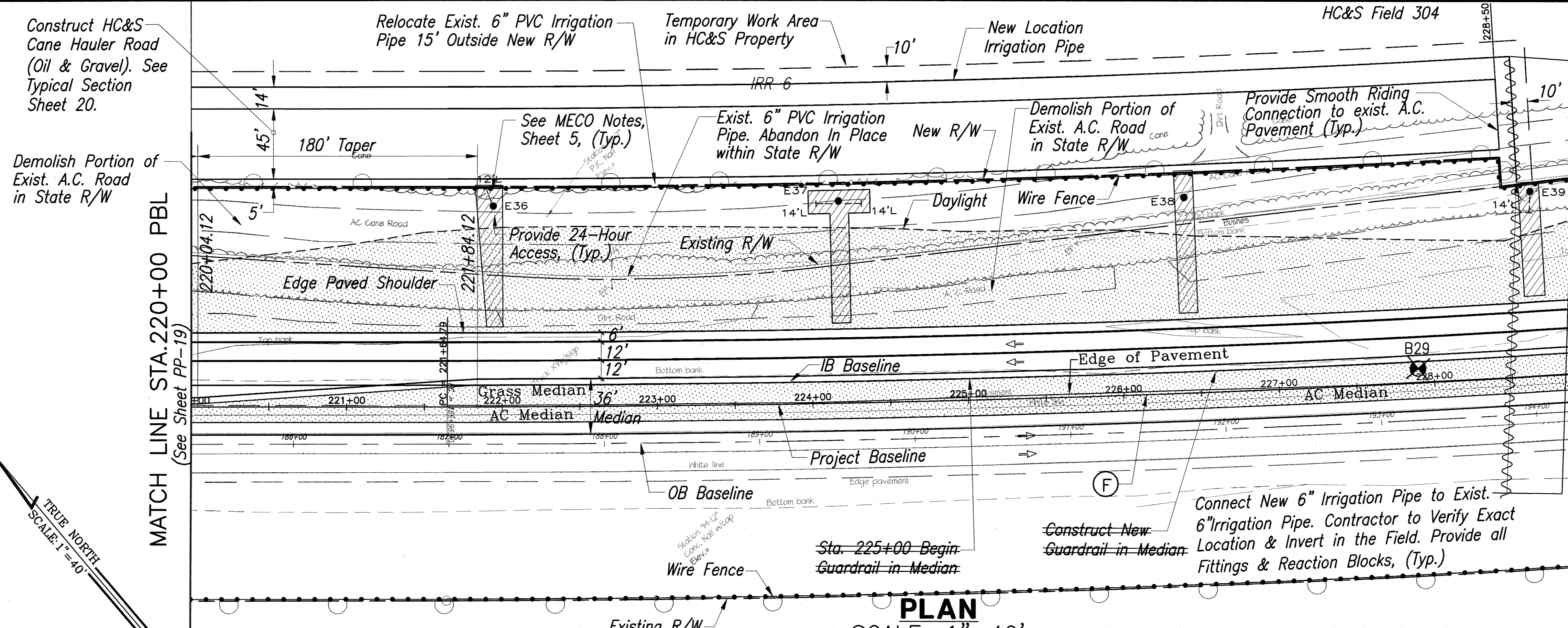
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	48	288



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

11/07/06

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	50	288



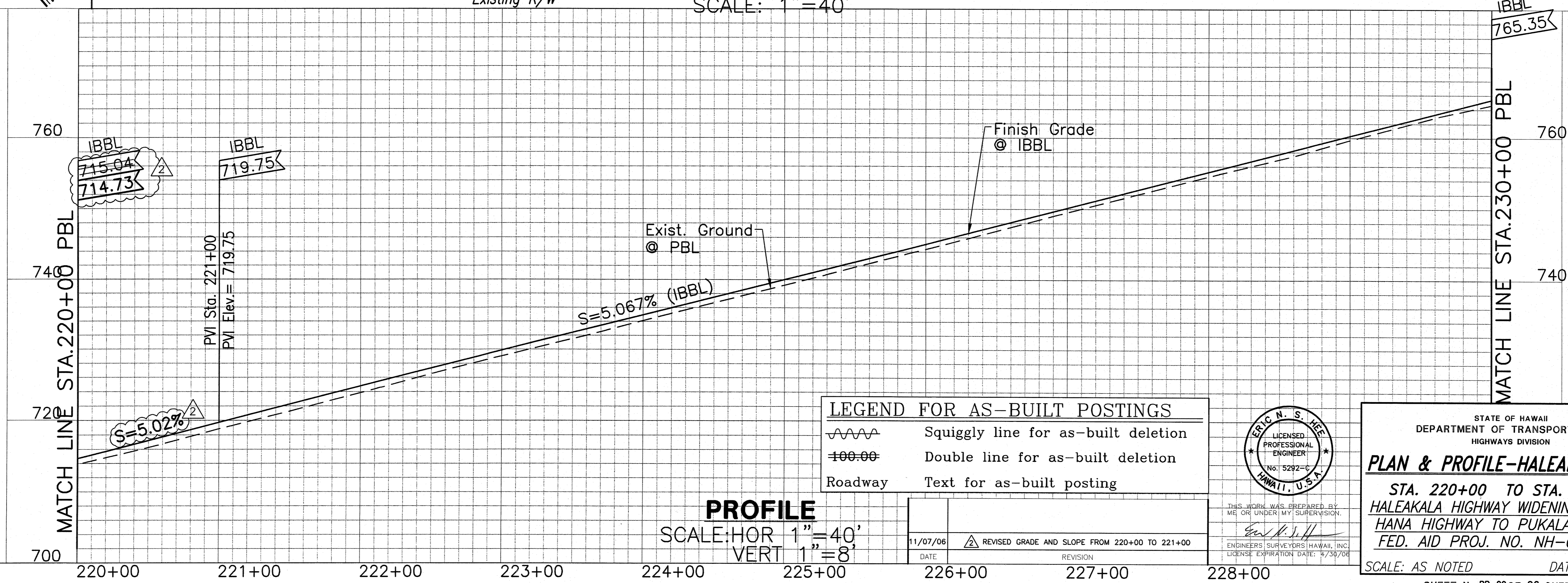
Legend:
 (F) Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.

Approx. Location exist 6" PVC Irrigation Main.
 MATCH LINE STA. 230+00 PBL
 (See Sheet pp-21)

MATCH LINE STA. 220+00 PBL
 (See Sheet PP-19)

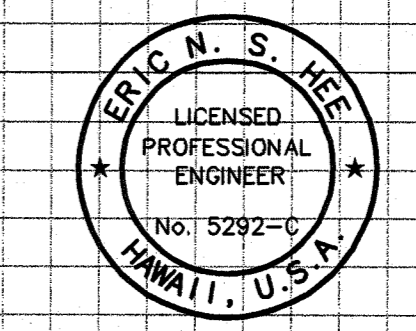
TRUE NORTH
 SCALE: 1"=40'

PLAN
 SCALE: 1"=40'



LEGEND FOR AS-BUILT POSTINGS

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 DATE: 11/07/06
 REVISION: REVISED GRADE AND SLOPE FROM 220+00 TO 221+00
 LICENSE EXPIRATION DATE: 4/30/08

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
 STA. 220+00 TO STA. 230+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005
 SHEET No. PP-20 OF 26 SHEETS

PROFILE
 SCALE: HOR 1"=40'
 VERT 1"=8'

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

11/07/06 Engineering Projects 11/07/06 Haleakala Hwy Phase 2 - ASBUILT PLAN SHEET 20 OF 26 SHEETS (Plan) - 5/1/08

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	51	288

Legend:
 (E) Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.

Notes:
 No New MECO Poles, Sta. 230+00 to 240+00
 Demolish exist. A.C. Road

Connect new 6" pipe to existing pipe located along 236+00 Truck Crossing to be Abandoned
 Approx. Sta. 231+60
 Construct Smooth Riding Connection from New A.C. Shoulder to exist. Dirt Road at R/W. New A.C. Section shall be 4" A.C. Mix IV, over 8" Aggregate Base Course over 12" Aggregate Subbase

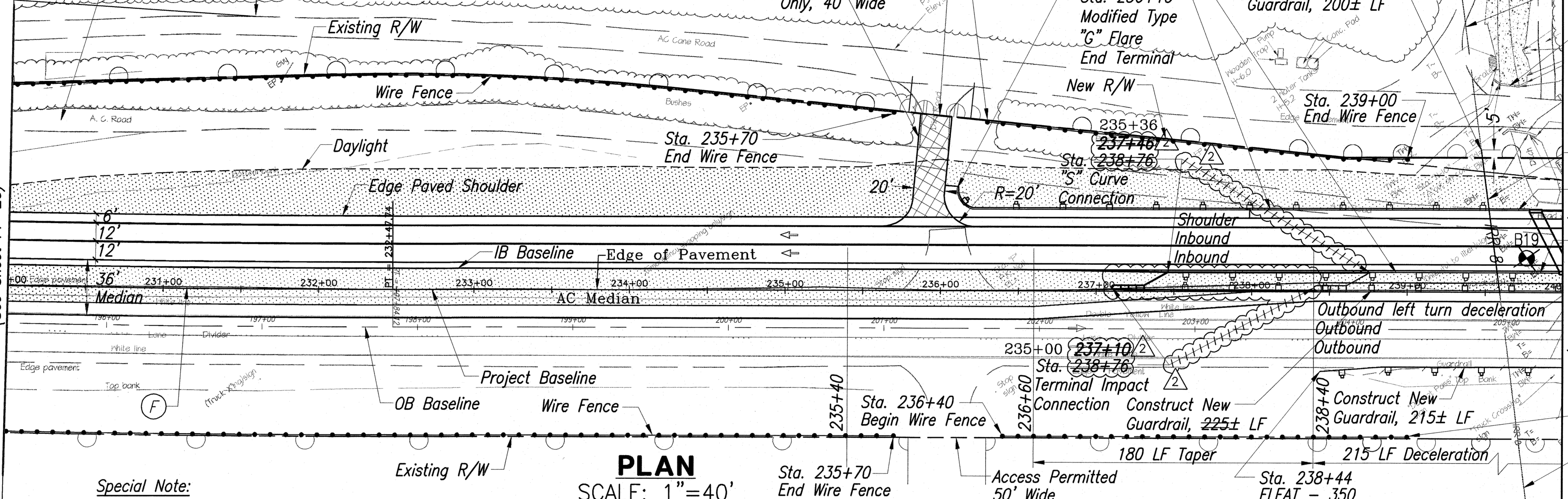
Remove exist. 8" PVC Pipe from exist. 8" D.I. Pipe to 5' Beyond R/W. Replace & Reconnect Irrigation Main with New 8" D.I. Pipe.
 1-8" Sleeve 12" Long.
 50± LF 8" D.I. Pipe
 90

Construct New Guardrail, 380± LF
 Construct New Guardrail, 200± LF
 Sta. 236+10 Modified Type "G" Flare End Terminal
 Sta. 239+00 End Wire Fence

Kauhikoa Ditch (Irrigation)
 Exist. 8" Irrigation PVC Pipe to Remain
 239+50± Install HC & S Control Gate (See Special Note, this Sheet)

MATCH LINE STA. 230+00 PBL
 (See Sheet PP-20)

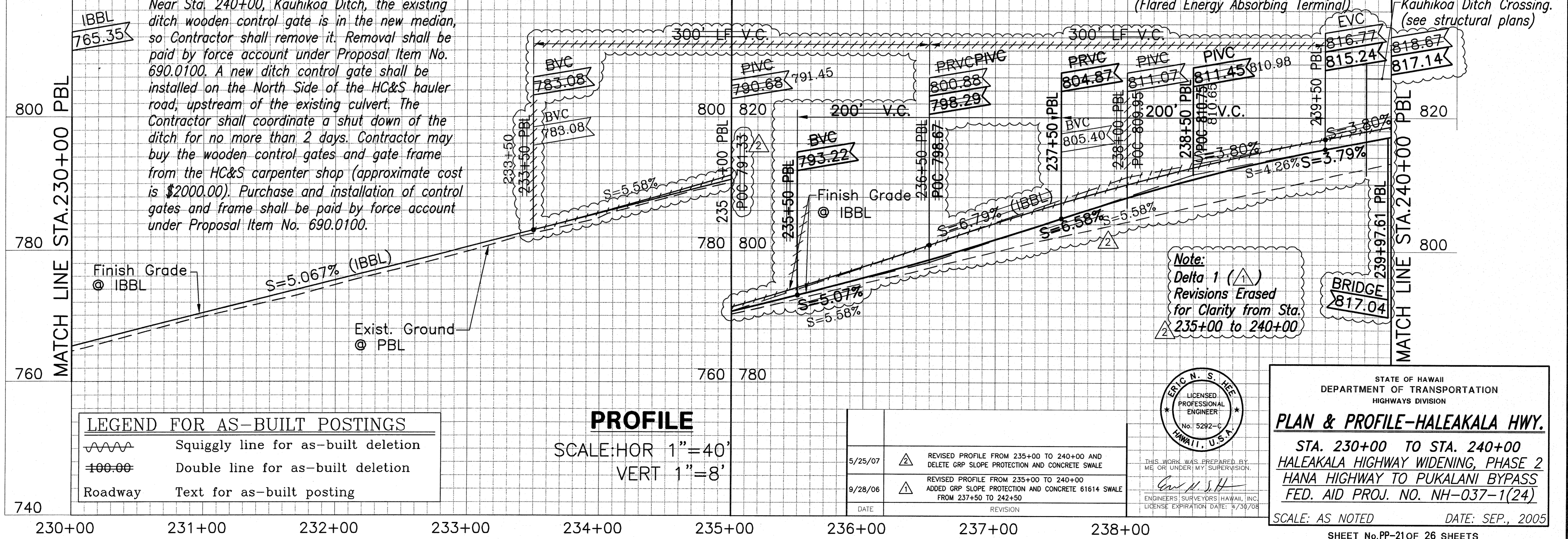
TRUE NORTH
 SCALE: 1"=40'



PLAN
 SCALE: 1"=40'

Special Note:
 Near Sta. 240+00, Kauhikoa Ditch, the existing ditch wooden control gate is in the new median, so Contractor shall remove it. Removal shall be paid by force account under Proposal Item No. 690.0100. A new ditch control gate shall be installed on the North Side of the HC&S hauler road, upstream of the existing culvert. The Contractor shall coordinate a shut down of the ditch for no more than 2 days. Contractor may buy the wooden control gates and gate frame from the HC&S carpenter shop (approximate cost is \$2000.00). Purchase and installation of control gates and frame shall be paid by force account under Proposal Item No. 690.0100.

MATCH LINE STA. 240+00 PBL
 (See Sheet PP-22)
 New 8" D.I. pipe
 Construct 200 LF New Guardrails
 1762
 Construct 1500 LF New Guardrails
 240+00± Irrigation Ditch Crossing No. 4, See Structural Drawings, Waterway Structure Plan- Crossing No. 4
 Sta. 239+00 End Wire Fence
 Exist 8" Irrigation PVC Pipe, to Remain (Approx. Location)

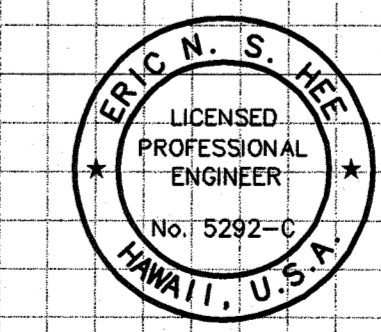


PROFILE
 SCALE: HOR 1"=40'
 VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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

DATE	REVISION
5/25/07	REVISD PROFILE FROM 235+00 TO 240+00 AND DELETE GRP SLOPE PROTECTION AND CONCRETE SWALE
9/28/06	REVISD PROFILE FROM 235+00 TO 240+00 ADDED GRP SLOPE PROTECTION AND CONCRETE 61614 SWALE FROM 237+50 TO 242+50



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Eric N. S. HEE
 ENGINEERS SURVEYORS HAWAII, INC.
 LICENSE EXPIRATION DATE: 4/30/08

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

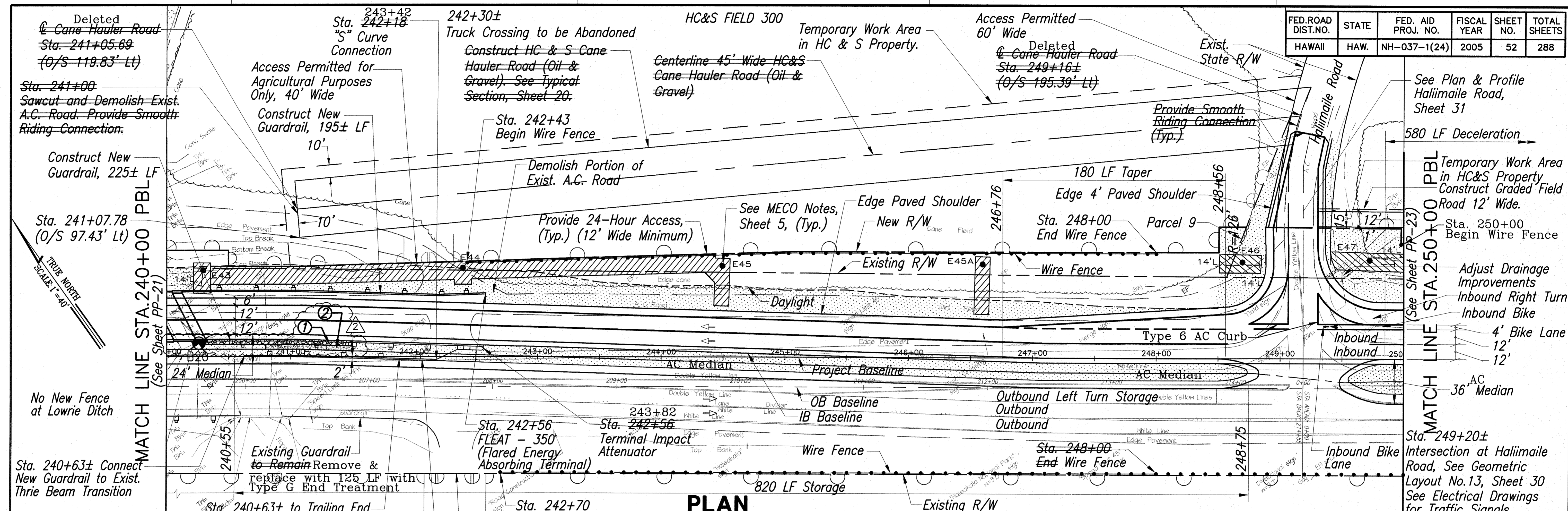
PLAN & PROFILE-HALEAKALA HWY.
 STA. 230+00 TO STA. 240+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: SEP., 2005
 SHEET No. PP-21 OF 26 SHEETS

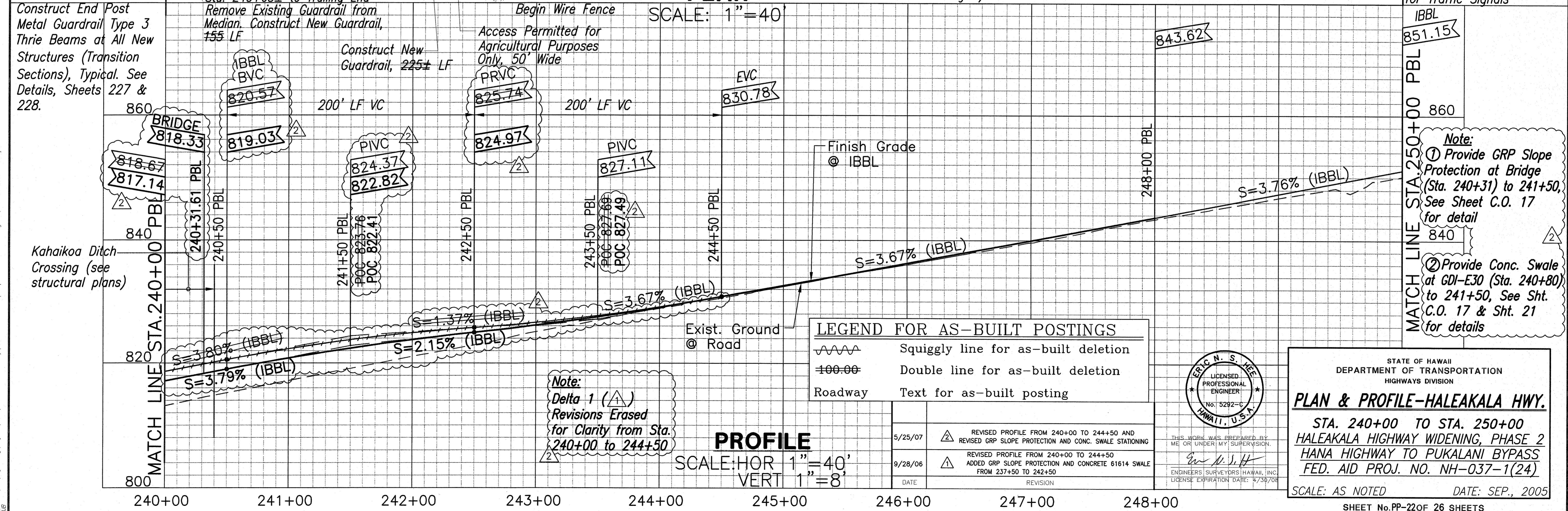
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

1:500-1 (en) Engineering Projects 11594 104-025 Haleakala Hwy Phase 2 - ASBUILT PP-21 of 26 SHEETS Rev. Nov. 25 2009 - 5:12pm

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	52	288



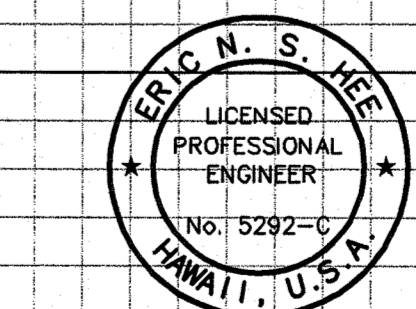
PLAN
SCALE: 1" = 40'



PROFILE
SCALE: HOR 1" = 40'
VERT 1" = 8'

LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

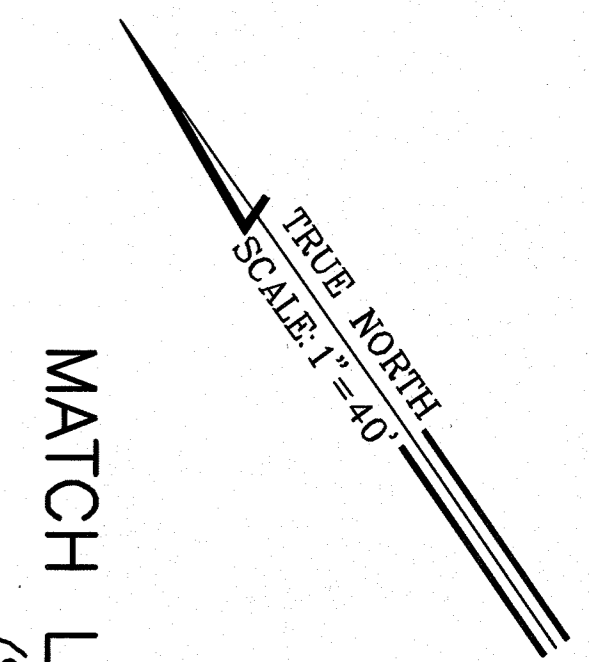
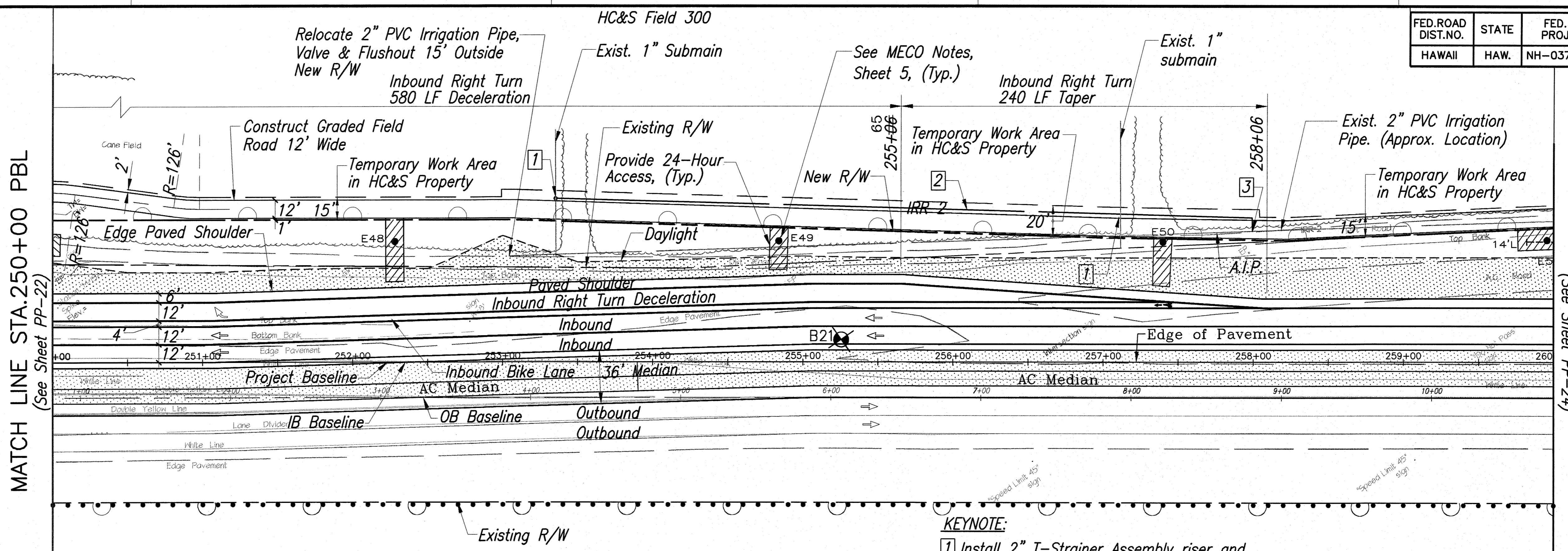
PLAN & PROFILE-HALEAKALA HWY.
STA. 240+00 TO STA. 250+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: SEP., 2005
SHEET No. PP-22 OF 26 SHEETS

NO.	DATE	DESCRIPTION

SURVEY PLOTTED BY: _____ DATE: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 QUANTITIES BY: _____
 No. _____
 (See - 1) Rev. Engineering Projects 119941 (14-05) HALEAKALA HWY. Phase 2 - AS-BUILT PLAN (SHT 52 OF 26) (REV. 09/25/2005)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	53	288

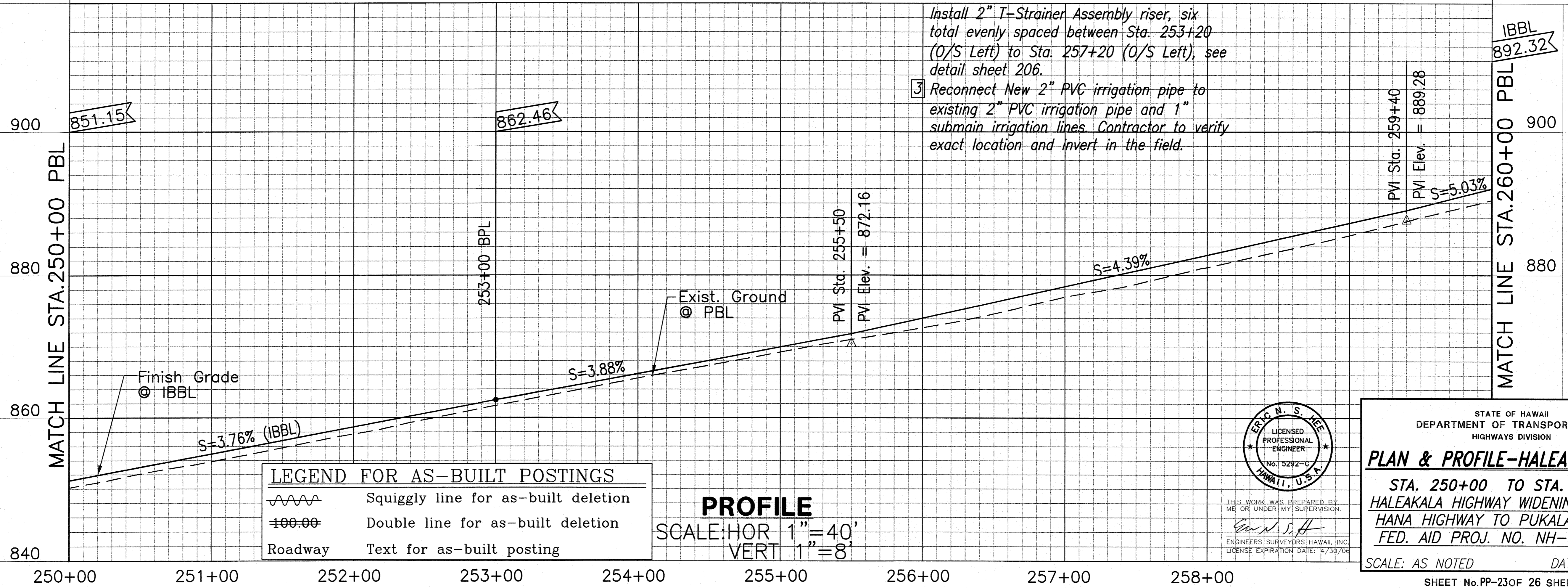


MATCH LINE STA. 250+00 PBL
(See Sheet PP-22)

MATCH LINE STA. 260+00 PBL
(See Sheet PP-24)

PLAN
SCALE: 1"=40'

- KEYNOTE:**
- 1 Install 2" T-Strainer Assembly riser and reconnect existing 1" submain.
 - 2 Install 2" and 1" submain irrigation lines in same trench with 1" submain Tee at 9' o.c. Install 2" T-Strainer Assembly riser, six total evenly spaced between Sta. 253+20 (O/S Left) to Sta. 257+20 (O/S Left), see detail sheet 206.
 - 3 Reconnect New 2" PVC irrigation pipe to existing 2" PVC irrigation pipe and 1" submain irrigation lines. Contractor to verify exact location and invert in the field.

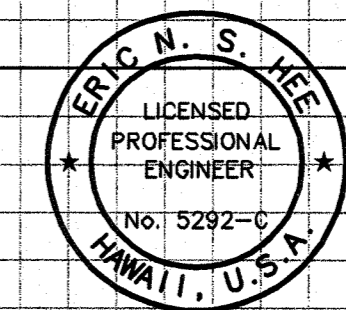


LEGEND FOR AS-BUILT POSTINGS

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

PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.

STA. 250+00 TO STA. 260+00
HALEAKALA HIGHWAY WIDENING, PHASE 2
HANA HIGHWAY TO PUKALANI BYPASS
FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

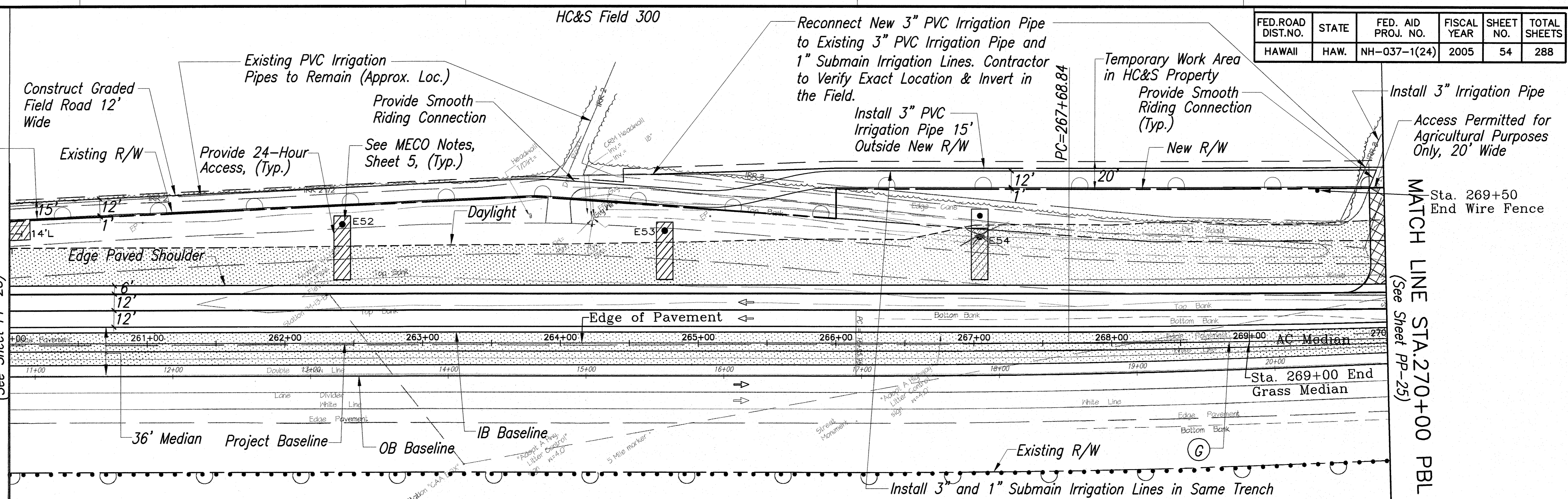
SHEET No. PP-23 OF 26 SHEETS

AS-BUILT

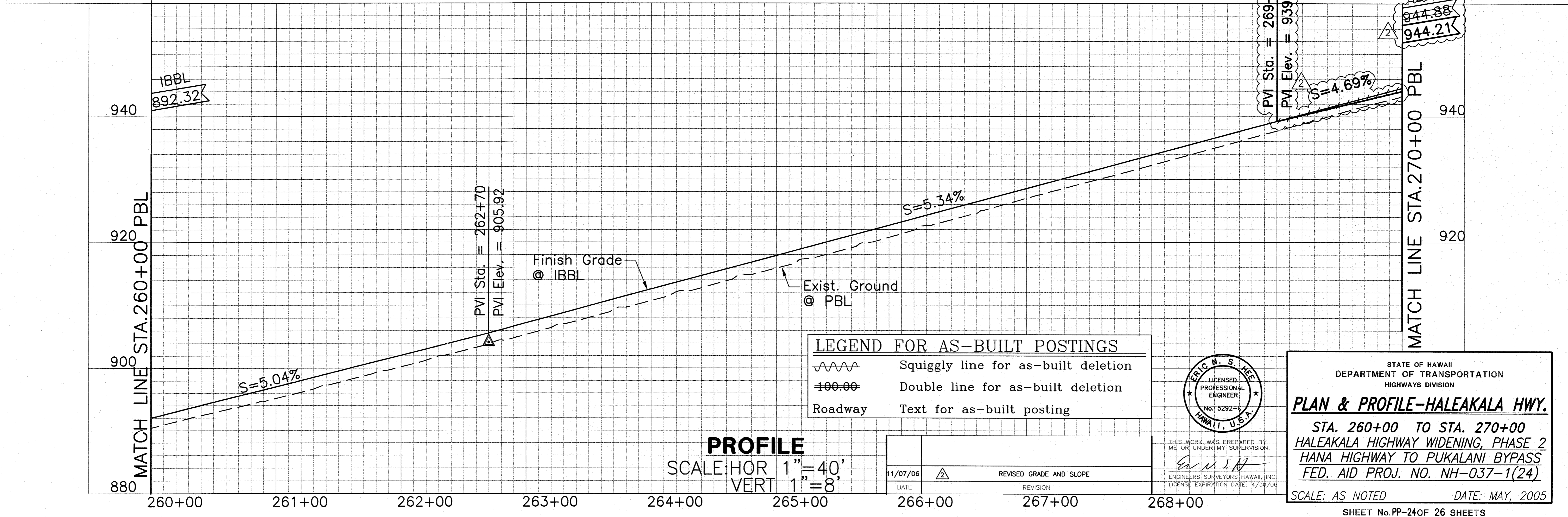
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	54	288

Legend:
 Ⓞ Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.

Temporary Work Area in HC&S Property
 MATCH LINE STA. 260+00 PBL
 (See Sheet PP-23)



PLAN
 SCALE: 1"=40'



PROFILE
 SCALE: HOR 1"=40'
 VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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

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

11/07/06 Engineering Projects 11/07/06 HAWAIIAN Hwy Phase 2 - ASBUILT PP-24 OF 26 SHEETS, Nov 25 2009 - 5:20pm

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

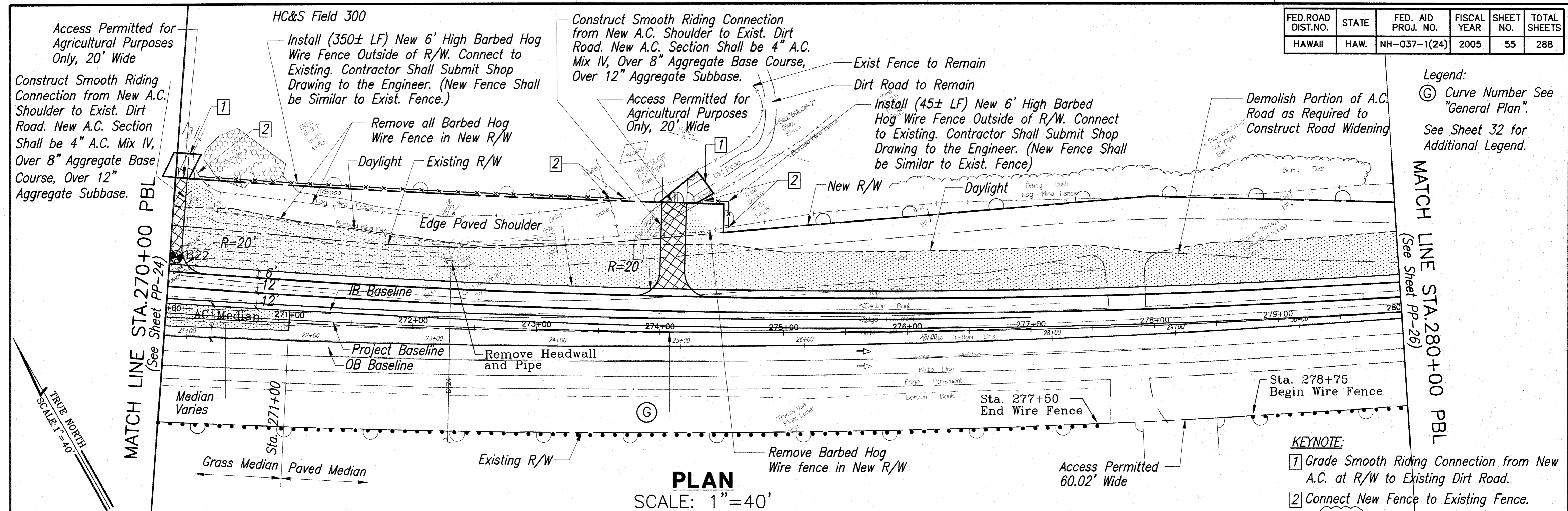
PLAN & PROFILE-HALEAKALA HWY.

STA. 260+00 TO STA. 270+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

SHEET No. PP-24 OF 26 SHEETS

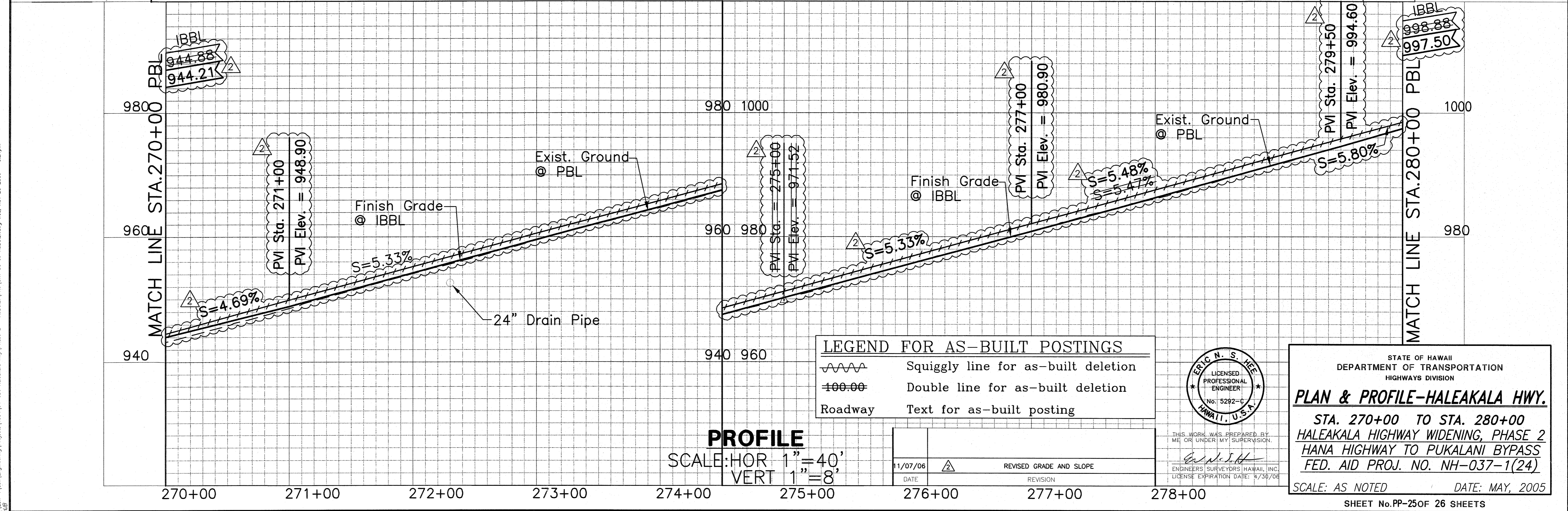
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	55	288



PLAN
SCALE: 1"=40'

Legend:
 Ⓞ Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.

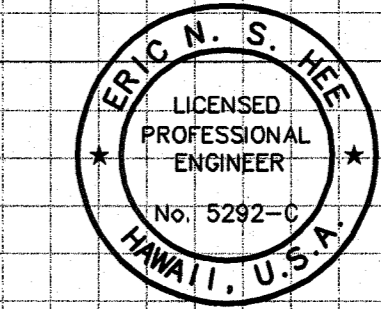
KEYNOTE:
 1 Grade Smooth Riding Connection from New A.C. at R/W to Existing Dirt Road.
 2 Connect New Fence to Existing Fence.



PROFILE
 SCALE: HOR 1"=40'
 VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

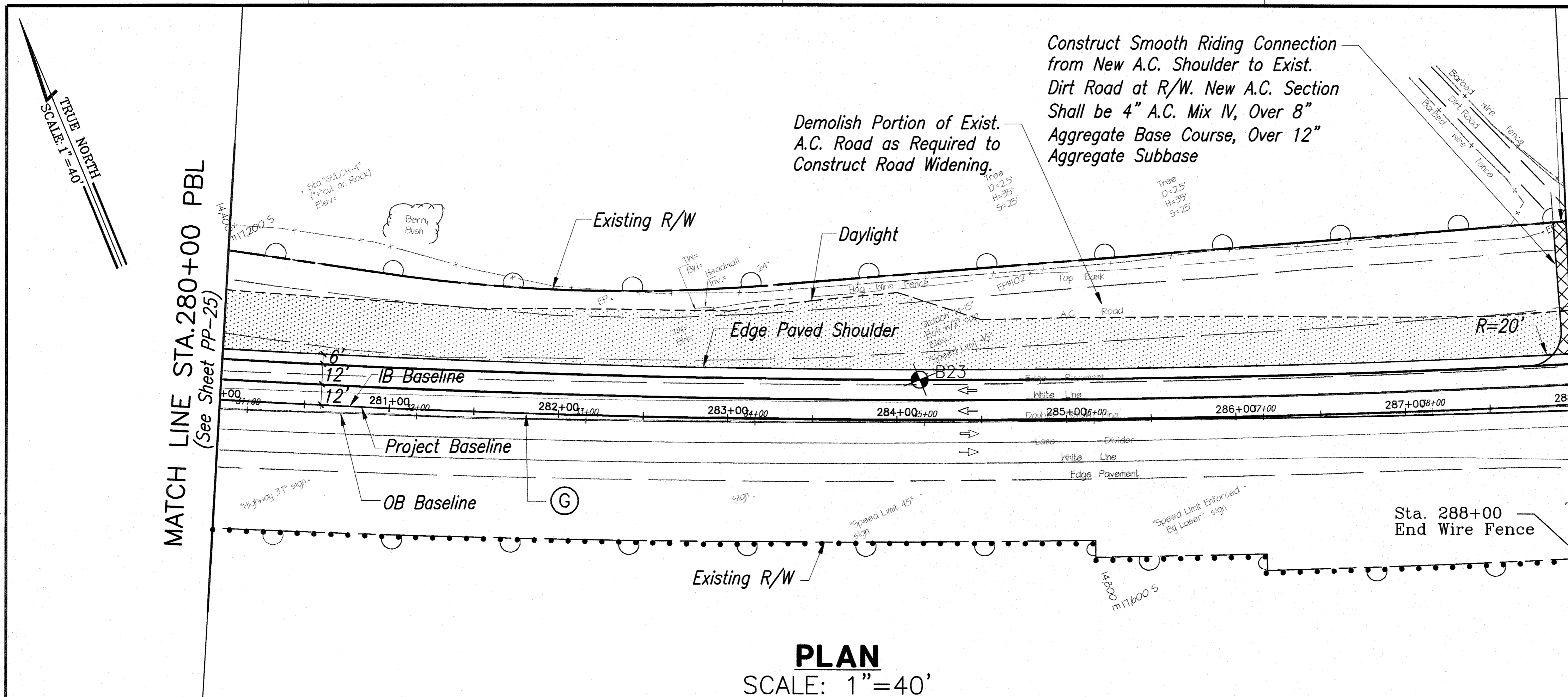
PLAN & PROFILE-HALEAKALA HWY.
 STA. 270+00 TO STA. 280+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005
 SHEET No. PP-25 OF 26 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
No.	

1/28/05 11:00 AM Engineering Projects 1994 04-05 Haleakala Hwy Phase 2 - AS-BUILT PLAN SHEET 35 OF 45 SHEETS Date: Nov 25 2009 10:52 AM

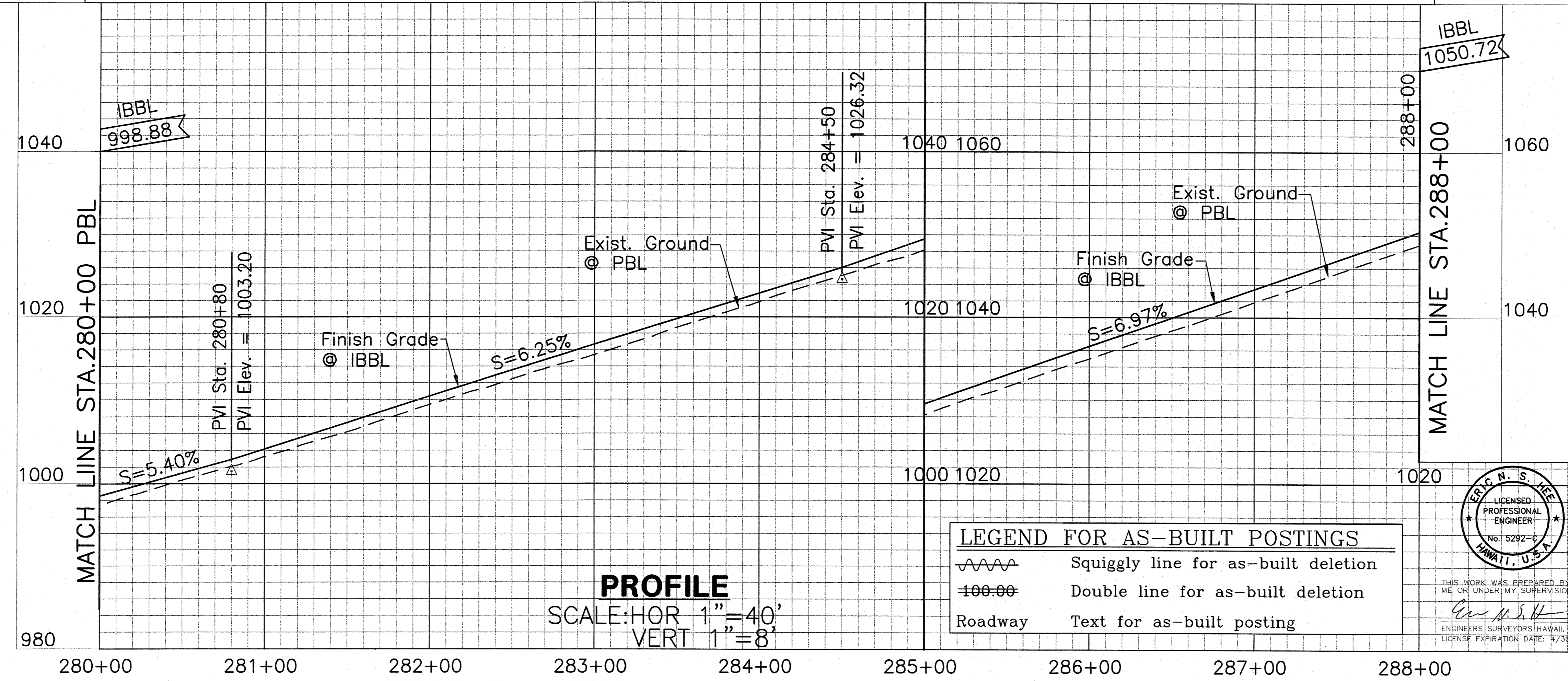
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	56	288



PLAN
SCALE: 1"=40'

Access Permitted for Agricultural Purposes Only, 20' Wide

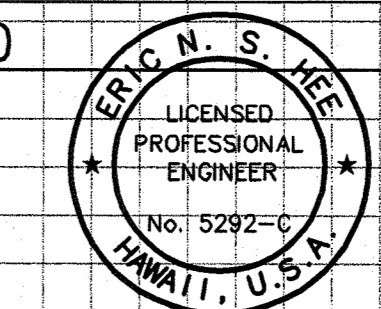
Legend:
 (G) Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.



PROFILE
SCALE: HOR 1"=40'
VERT 1"=8'

LEGEND FOR AS-BUILT POSTINGS

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Eric N. S. Hee
 ENGINEERS SURVEYORS HAWAII, INC.
 LICENSE EXPIRATION DATE: 4/30/08

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
 STA. 280+00 TO STA. 288+00
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

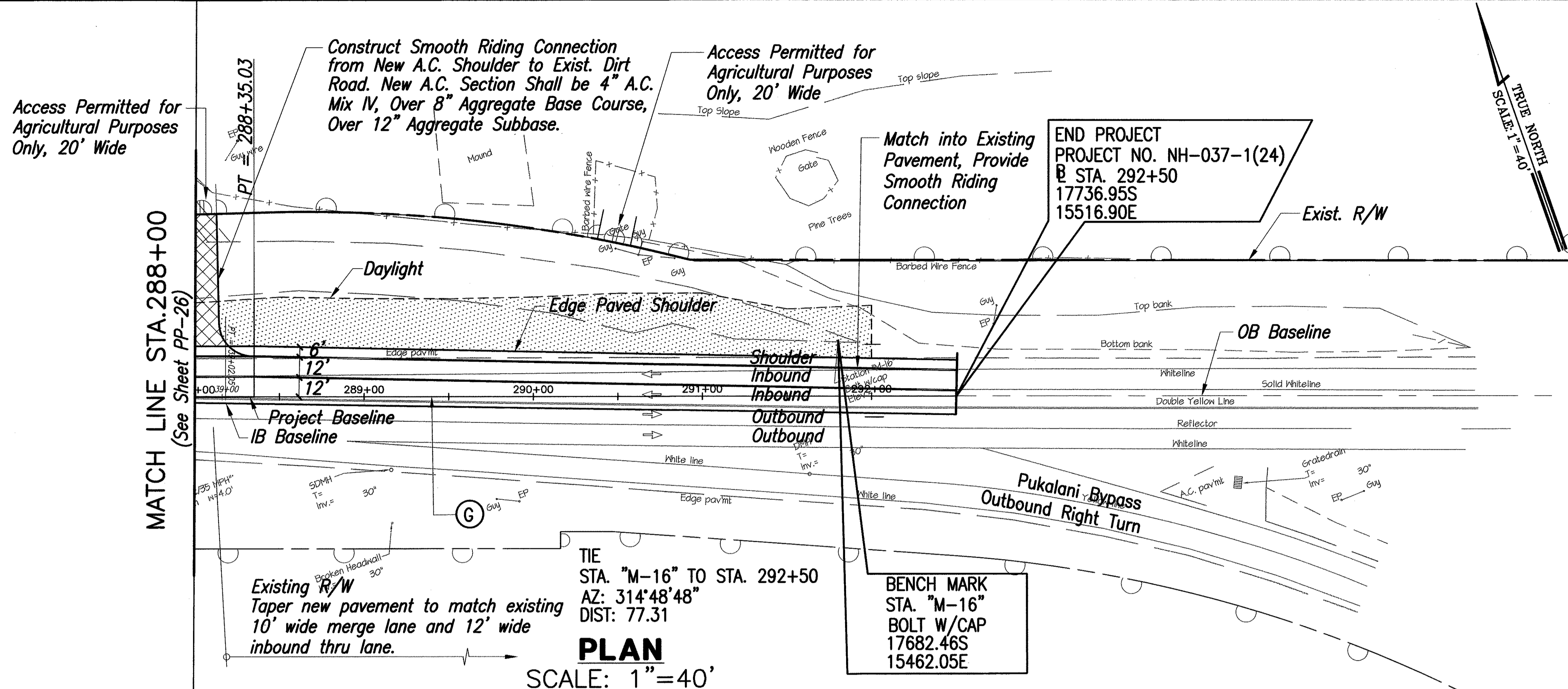
SCALE: AS NOTED DATE: MAY, 2005
 SHEET No. PP-26 OF 26 SHEETS

AS-BUILT

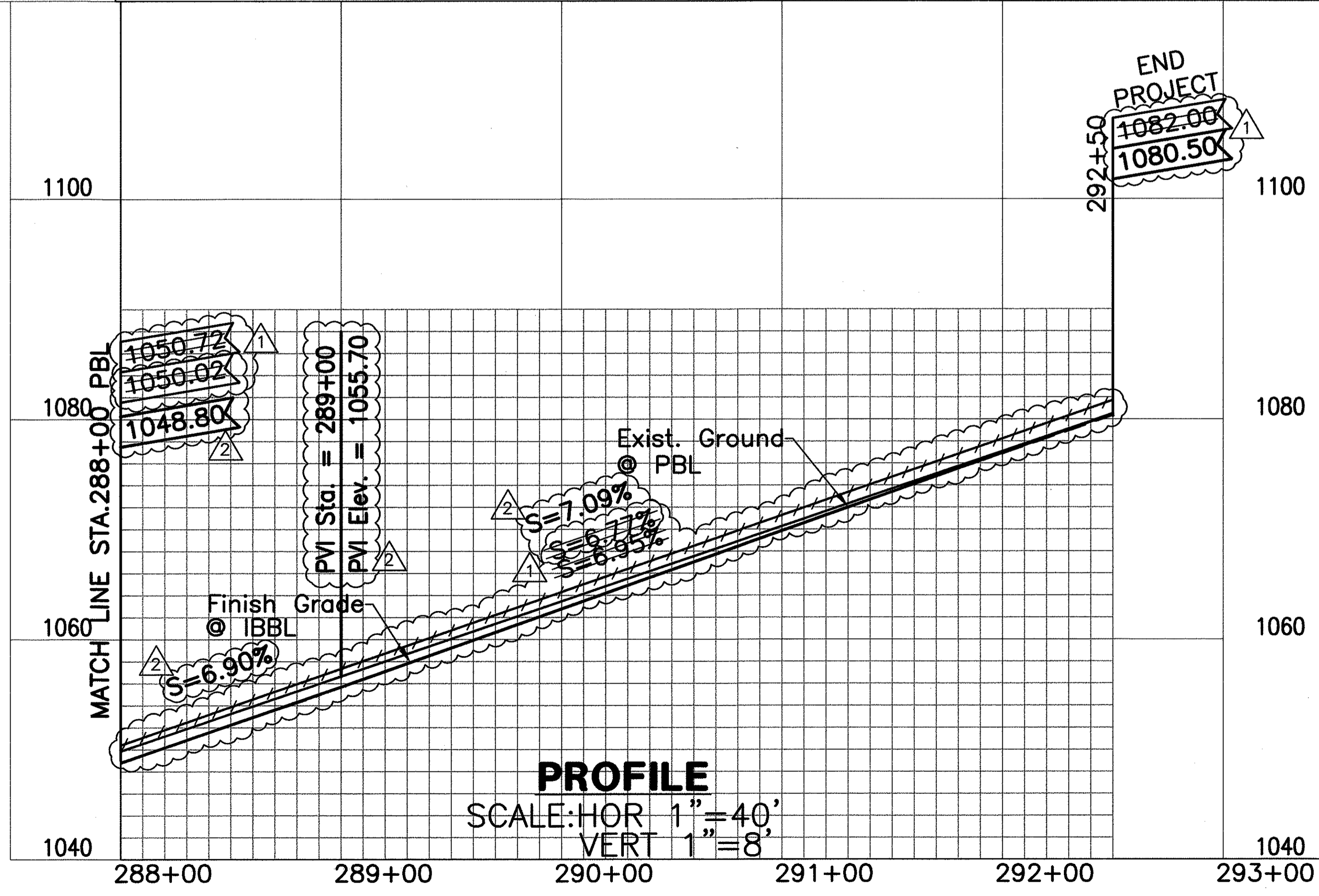
ORIGINAL PLAN DATE
 SURVEY PLOTTED BY
 TRACED BY
 DESIGNED BY
 NOTE BOOK
 QUANTITIES BY
 CHECKED BY

11/25/05 11:54am
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(24)	2005	57	288

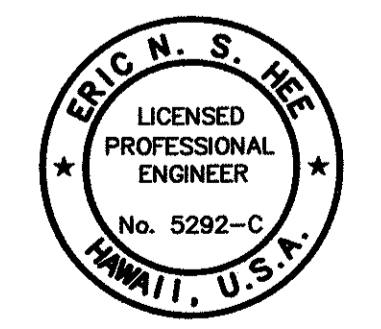


Legend:
 (G) Curve Number See "General Plan".
 See Sheet 32 for Additional Legend.



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

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 100: 194-025-025 Hialeah, FL 33157



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Eric N. S. HEE
 ENGINEERS SURVEYORS HAWAII, INC.
 LICENSE EXPIRATION DATE: 4/30/06

11/07/06	△	REVISED GRADE AND SLOPE
9/26/06	△	REVISED PROFILE FROM 288+00 TO 292+50
DATE		REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN & PROFILE-HALEAKALA HWY.
 STA. 288+00 TO STA. 292+50
 HALEAKALA HIGHWAY WIDENING, PHASE 2
 HANA HIGHWAY TO PUKALANI BYPASS
 FED. AID PROJ. NO. NH-037-1(24)

SCALE: AS NOTED DATE: MAY, 2005

SHEET No. PP-27 OF 26 SHEETS