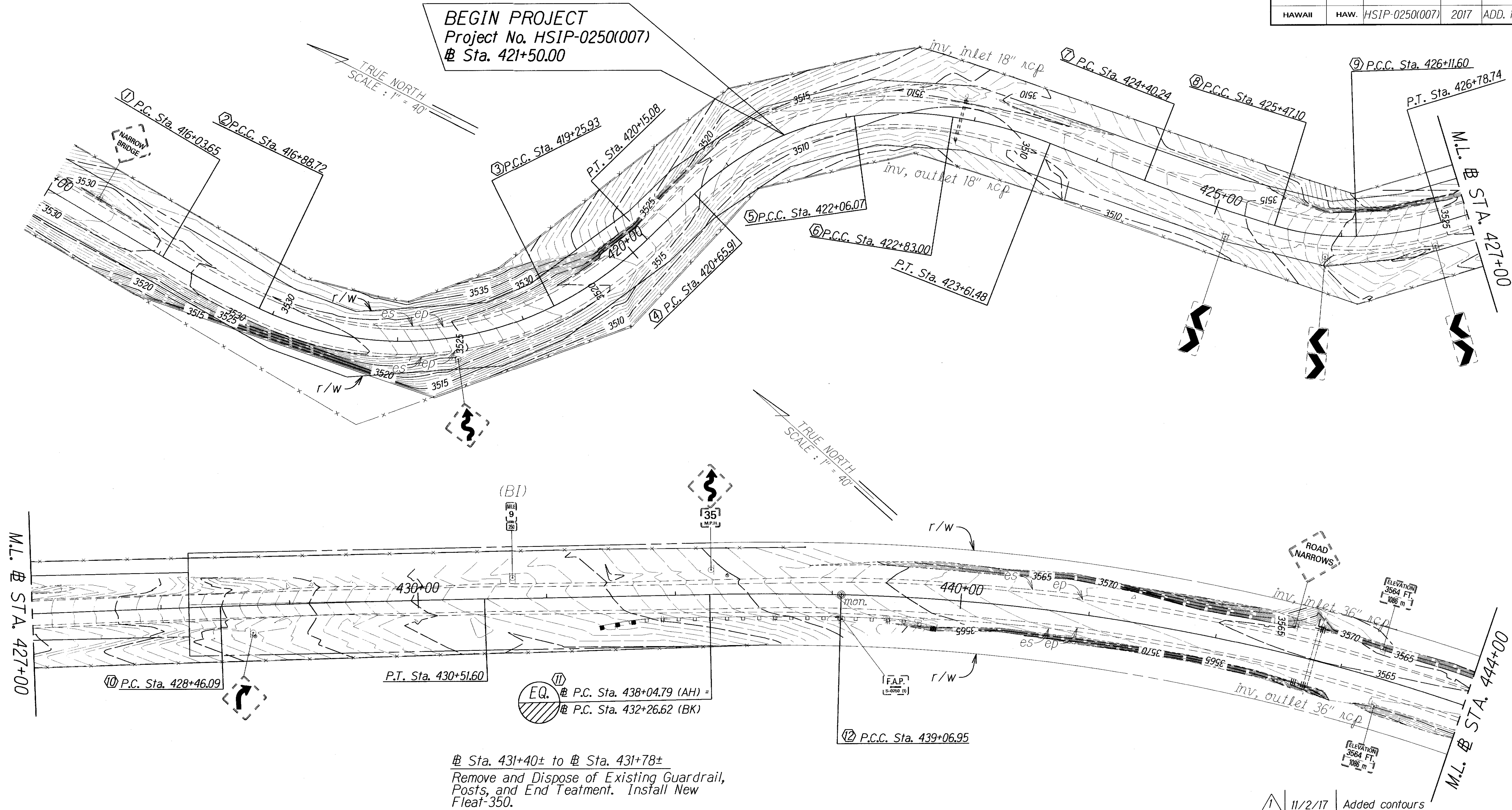


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD. 19	35



Curve #	1	2	3	4	5	6	7	8	9	10	11	12
Δ =	5°02'10.00"	52°04'00.00"	17°22'50.00"	36°19'50.00"	16°38'00.00"	12°19'10.00"	4°5'10.00"	18°57'00.00"	15°17'30.00"	1°02'00.00"	2°37'30.00"	2°37'10.00"
D =	5°55'11.36"	2°56'58.19"	19°29'48.35"	25°55'12.18"	2°37'19.10"	15°41'49.74"	3°49'25.82"	29°22'52.76"	22°46'32.58"	0°30'10.08"	2°34'10.15"	3°30'01.77"
R =	967.8630	261.0346	293.8733	221.0481	264.9887	365.0075	1498.3839	195.0075	251.5652	11395.3448	2229.8541	1636.7919
T =	42.5634	127.5031	44.9179	70.48	38.7364	39.3929	53.4521	32.5456	33.7708	102.7607	51.0892	312.5226
C =	85.0446	229.1330	88.8044	137.8275	76.6581	78.3309	106.8362	64.2032	66.9411	205.5130	102.1516	613.9541
LC =	85.0720	237.2112	89.1459	140.1639	76.9279	78.4820	106.8589	64.4968	67.1402	205.5158	102.1605	617.6115

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

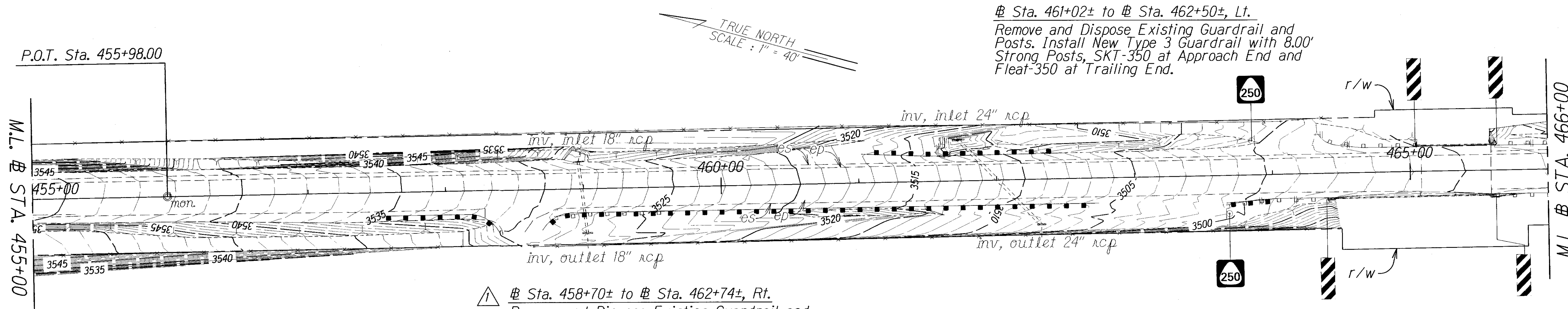
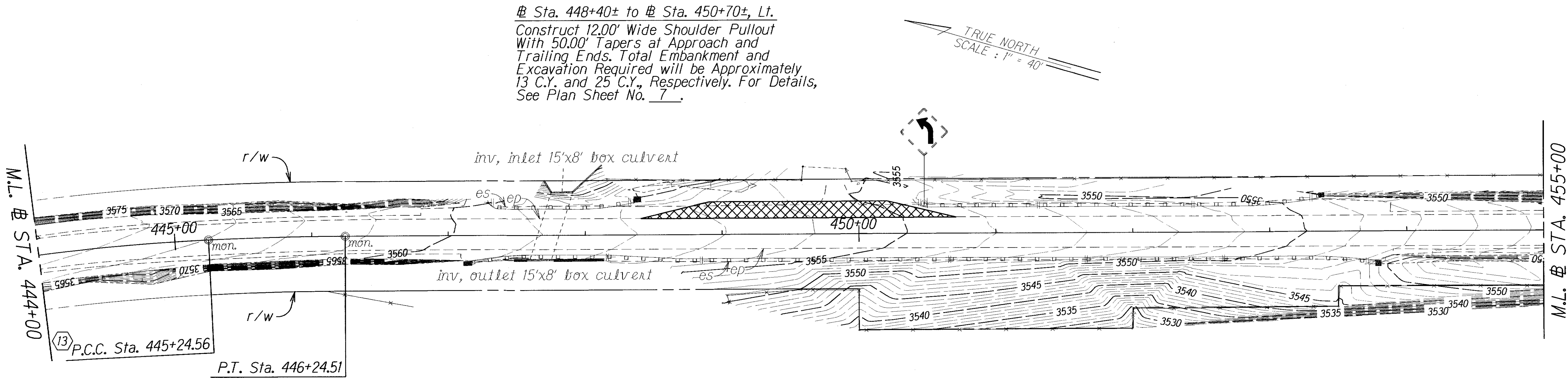
ROADWAY PLANS

KOHALA MOUNTAIN ROAD
SAFETY IMPROVEMENTS
Federal Aid Project No. HSIP-0250(007)

Scale: 1" = 40' Date: October, 2017

SHEET No. 1 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD. 20	35



Sta. 457+46± to # Sta. 458+36± o/s 17.50±, Rt.
Install New Type 3 Guardrail With New Fleet-350 at Approach End and New Modified Type G, Radius = 25.00' at Trailing End. Begin 25.00' Radius New Type 3 Guardrail From # Sta. 458+15± and Connect to Modified Type G.

Sta. 458+70± to # Sta. 462+74±, Rt.
Remove and Dispose Existing Guardrail and Posts. Install New Type 3 Guardrail with New Modified Type G Radius = 25.00' at Approach End and Fleet-350 at Trailing End. Begin 25.00' Radius New Type 3 Guardrail From # Sta. 458+91± and Connect to Modified Type G. # Sta. 460+50± to # Sta. 461+60± = Install 8.0' Post

Sta. 463+66± to # Sta. 464+04±, Rt.
Remove and Dispose Existing End Treatment. Install New Fleet-350 at Approach End.

11/2/17 Added contours and revised callout

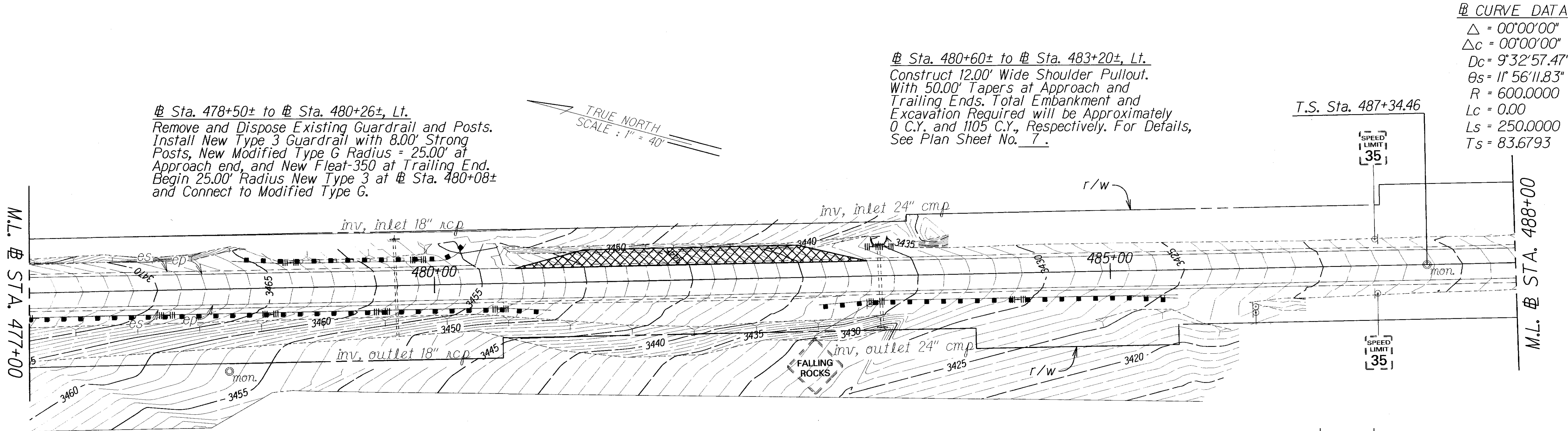
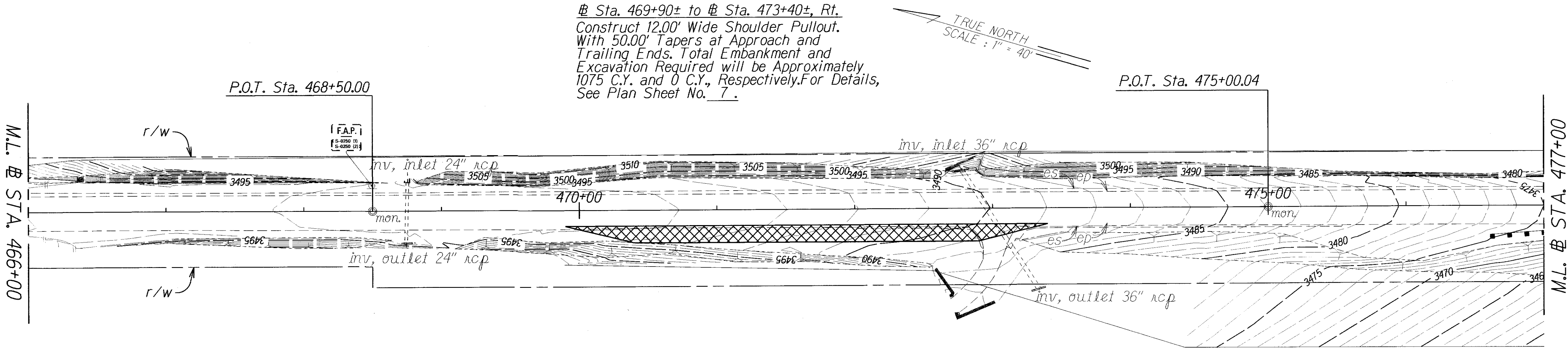
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
KOHALA MOUNTAIN ROAD
SAFETY IMPROVEMENTS
Federal Aid Project No. HSIP-0250(007)
Scale: 1" = 40' Date: October, 2017
SHEET No. 2 OF 6 SHEETS

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

Curve #	(13)
Δ =	2°37'30.00"
D =	2°37'35.08"
R =	2181.5246
T =	49.9819
C =	99.9376
LC =	99.9463

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD. 21	35



CURVE DATA

$\Delta = 00^{\circ}00'00''$
 $\Delta c = 00^{\circ}00'00''$
 $Dc = 9^{\circ}32'57.47''$
 $\theta s = 1^{\circ}56'11.83''$
 $R = 600.0000$
 $Lc = 0.00$
 $Ls = 250.0000$
 $Ts = 83.6793$

T.S. Sta. 487+34.46

[SPEED
LIMIT]
[35]

[SPEED
LIMIT]
[35]

11/2/17 Added contours

DATE REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
 HOHALA MOUNTAIN ROAD
 SAFETY IMPROVEMENTS
 Federal Aid Project No. HSIP-0250(007)

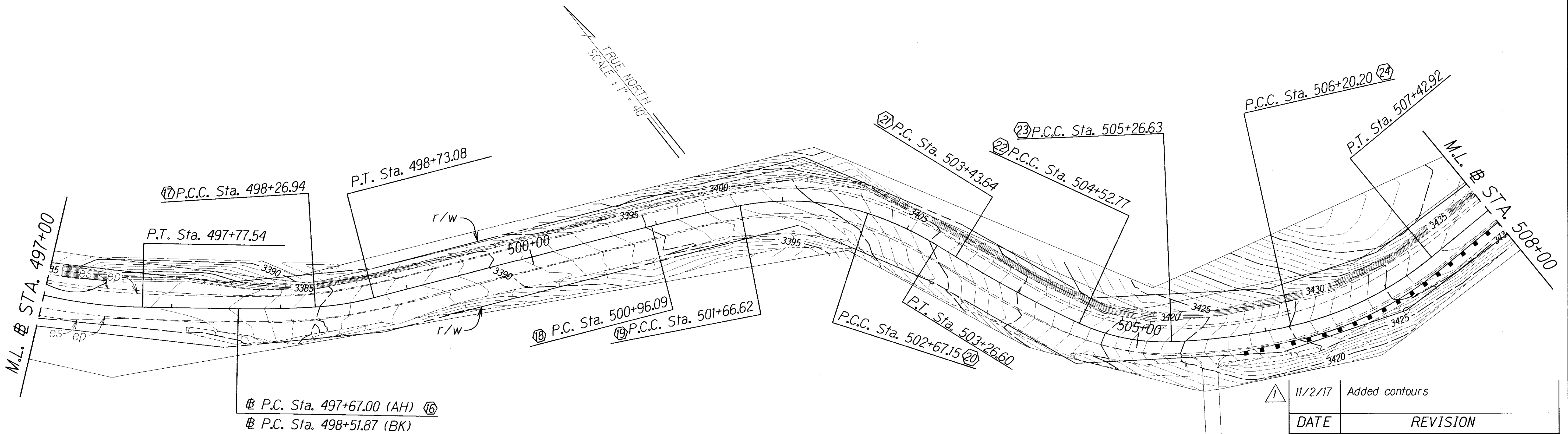
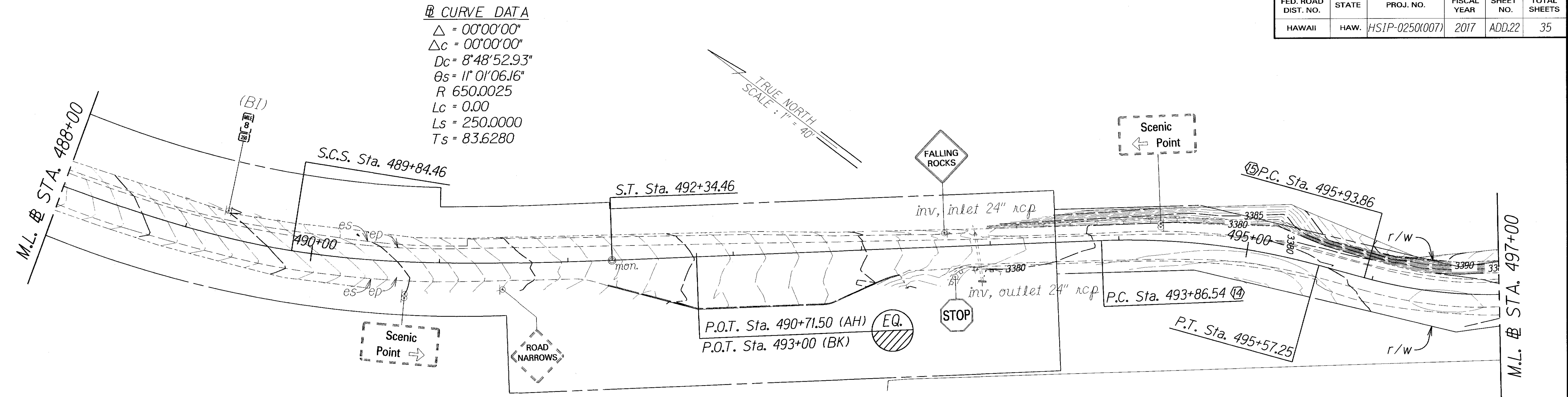
Scale: 1" = 40' Date: October, 2017

SHEET No. 3 OF 6 SHEETS

ADD. 21

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

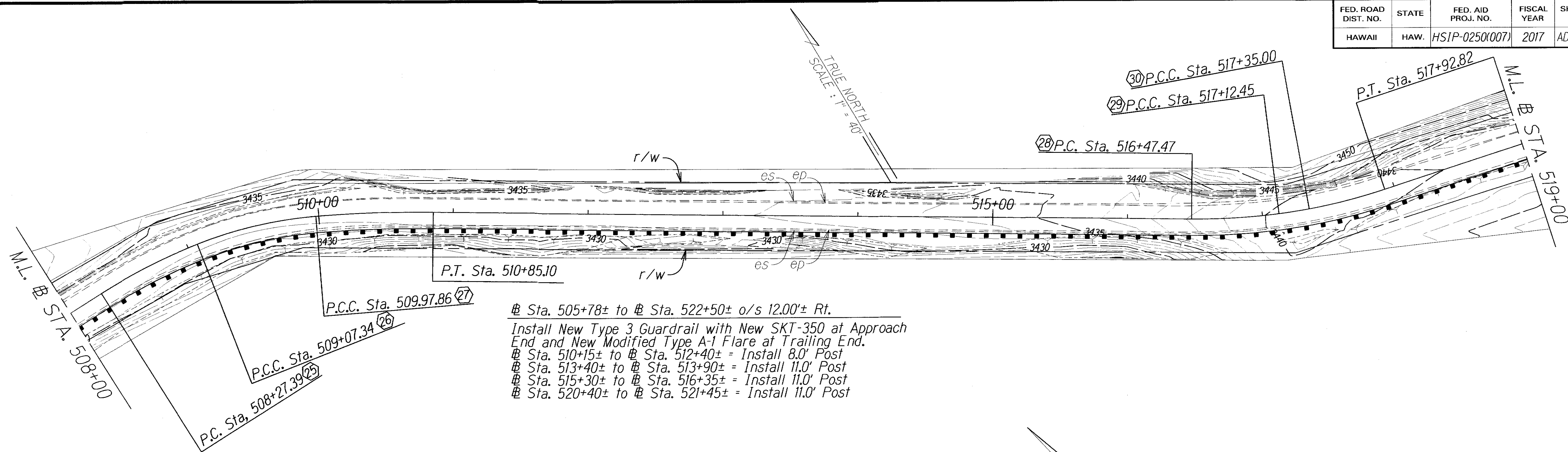
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD.22	35



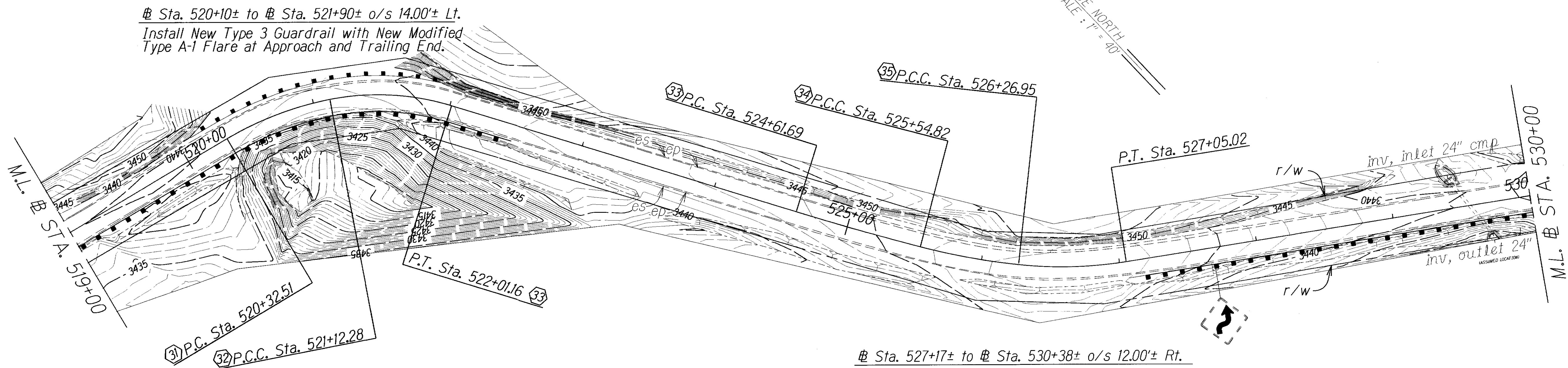
Curve #	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔
$\Delta =$	17°42'20.00"	28°51'25.00"	4°25'25.00"	10°59'40.00"	3°33'40.00"	28°48'00.00"	13°44'30.00"	6°50'30.00"	27°04'00.00"	10°17'00.00"	27°00'00.00"
$D =$	10°22'17.61"	15°42'38.20"	7°22'46.82"	23°49'54.82"	5°02'56.38"	28°38'54.93"	23°06'45.85"	6°16'09.75"	36°38'31.12"	10°59'24.38"	22°00'07.23"
$R =$	552.4318	364.6948	776.4002	240.4164	1134.7957	199.9951	247.8970	913.8992	156.3665	521.3397	260.4116
$T =$	86.0421	93.8309	29.9865	23.1377	35.2769	51.3500	29.8708	54.6291	37.6365	46.9105	62.5193
$C =$	170.0342	181.7429	59.9283	46.0626	70.5197	99.4735	59.3126	109.0635	73.1830	93.4435	121.5838
$LC =$	170.7126	183.6781	59.9432	46.1333	70.5311	100.5285	59.4550	109.1283	73.8679	93.5690	122.7161

11/2/17	Added contours
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLANS KOHALA MOUNTAIN ROAD SAFETY IMPROVEMENTS Federal Aid Project No. HSIP-0250(007) Scale: 1" = 40' Date: October, 2017	
SHEET No. 4 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD. 23	35



Sta. 505+78± to Sta. 522+50± o/s 12.00'± Rt.
 Install New Type 3 Guardrail with New SKT-350 at Approach End and New Modified Type A-1 Flare at Trailing End.
 Sta. 510+15± to Sta. 512+40± = Install 8.0' Post
 Sta. 513+40± to Sta. 513+90± = Install 11.0' Post
 Sta. 515+30± to Sta. 516+35± = Install 11.0' Post
 Sta. 520+40± to Sta. 521+45± = Install 11.0' Post



Sta. 520+10± to Sta. 521+90± o/s 14.00'± Lt.
 Install New Type 3 Guardrail with New Modified Type A-1 Flare at Approach and Trailing End.

Sta. 527+17± to Sta. 530+38± o/s 12.00'± Rt.
 Install New Type 3 Guardrail with New Fleet-350 at Approach and Trailing End.
 Sta. 527+55± to Sta. 528+50± = Install 8.0' Post
 Sta. 528+50± to Sta. 530+00± = Install 11.0' Post

11/2/17 Added contours

Curve #	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)
Δ =	10°54'00.00"	16°44'00.00"	5°18'20.00"	7°56'20.00"	3°01'00.00"	7°52'50.00"	19°38'50.00"	28°09'10.00"	2°26'10.00"	8°34'00.00"	15°17'40.00"
D =	13°37'57.13"	18°29'11.85"	6°04'54.18"	12°12'57.20"	13°22'52.91"	13°37'43.12"	24°37'39.46"	31°40'29.46"	2°36'56.32"	11°52'37.25"	19°35'29.96"
R =	420.2870	309.9310	942.0990	469.0267	428.1759	420.4070	232.6484	180.8873	2190.5032	482.4090	292.4499
T =	40.0989	45.5824	43.6501	32.5462	11.2745	28.9574	40.2841	45.3565	46.5751	36.1314	39.2665
C =	79.8353	90.1946	87.2066	64.9362	22.5412	57.7779	79.3869	87.9891	93.1291	72.0610	77.8345
LC =	79.9558	90.5159	87.2378	64.9882	22.5438	57.8235	79.7772	88.8805	93.1362	72.1281	78.0661

DATE

REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLANS

KOHALA MOUNTAIN ROAD

Safety Improvements

Federal Aid Project No. HSIP-0250(007)

Scale: 1" = 40'

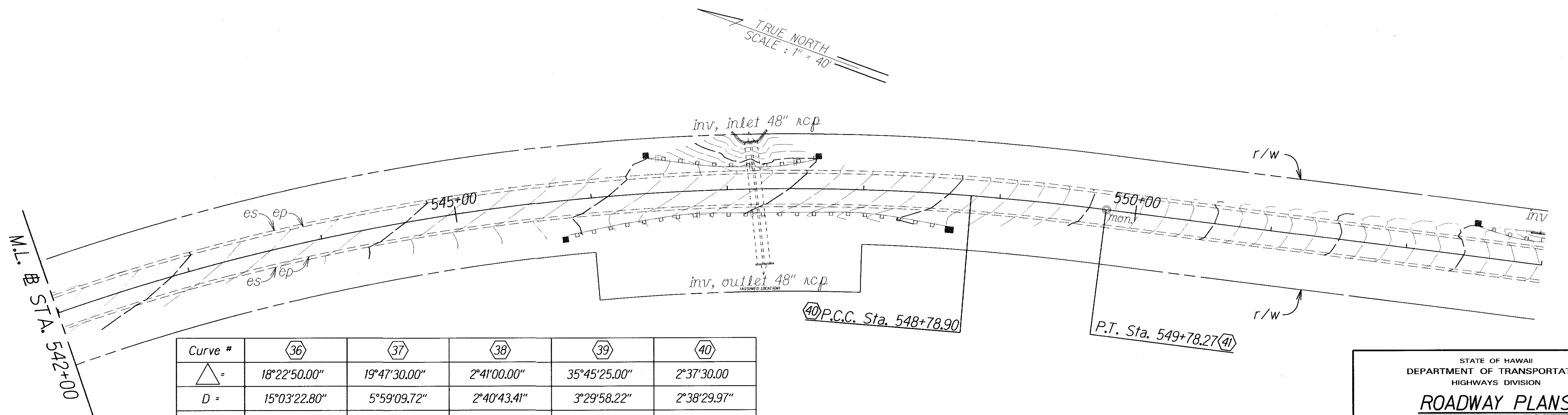
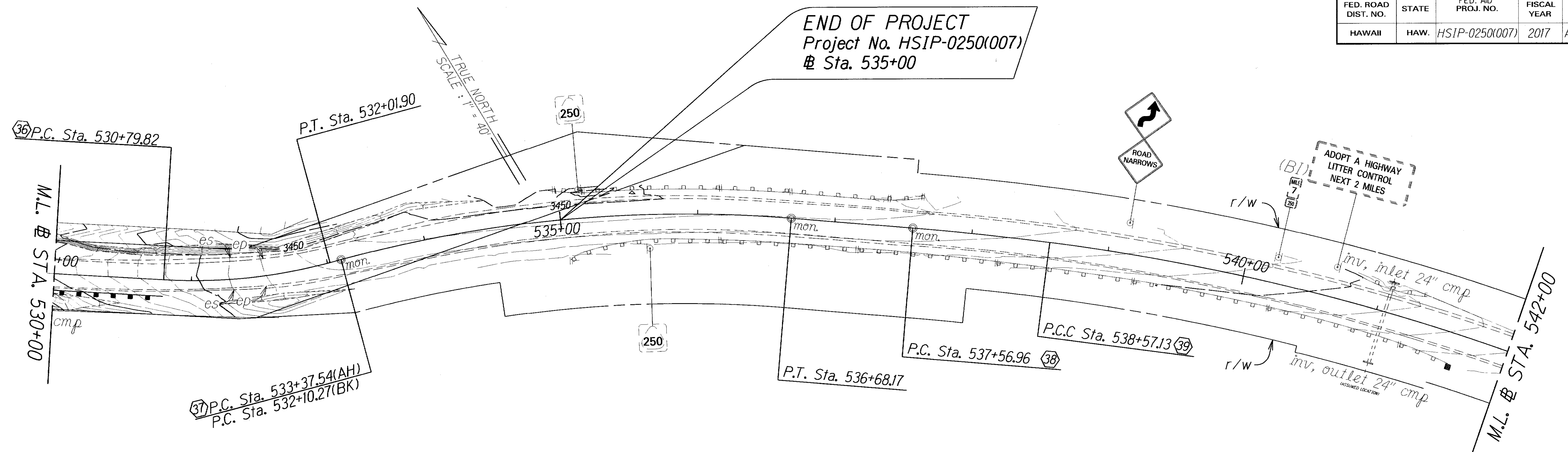
Date: October, 2017

SHEET No. 5

OF 6

SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0250(007)	2017	ADD. 24	35



Curve #	36	37	38	39	40
Δ =	18°22'50.00"	19°47'30.00"	2°41'00.00"	35°45'25.00"	2°37'30.00"
D =	15°03'22.80"	5°59'09.72"	2°40'43.41"	3°29'58.22"	2°38'29.97"
R =	380.5427	957.1575	2138.9209	1637.2538	2168.9326
T =	61.5682	166.9790	50.0952	528.1393	49.6934
C =	121.5558	328.9893	100.1629	1021.7715	99.3607
LC =	122.0786	330.6307	100.1721	1005.2707	99.3694

11/2/17 Added contours

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KOHALA MOUNTAIN ROAD

SAFETY IMPROVEMENTS

Federal Aid Project No. HSIP-0250(007)

Scale: 1" = 40' Date: October, 2017

SHEET No. 6 OF 6 SHEETS