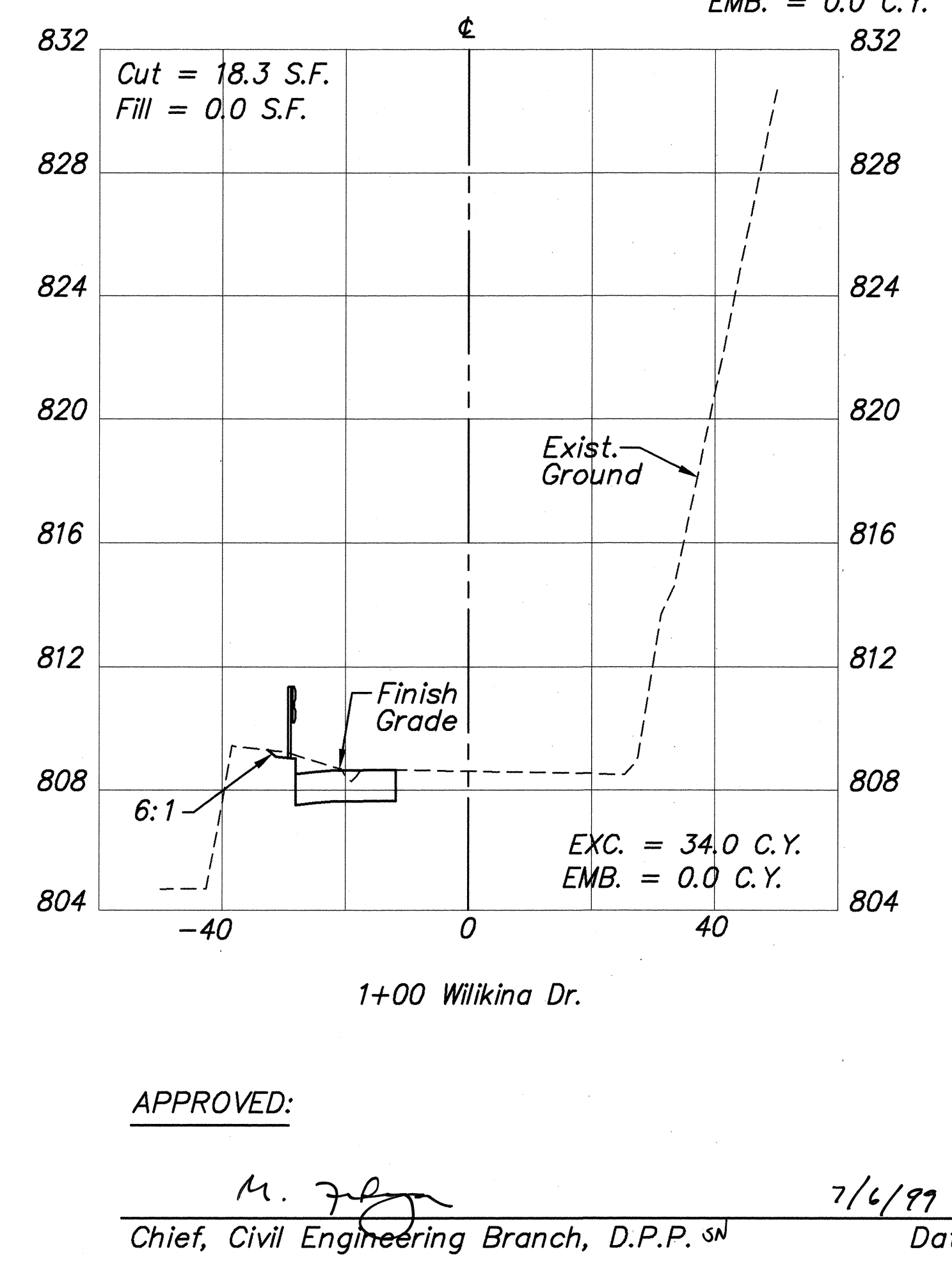
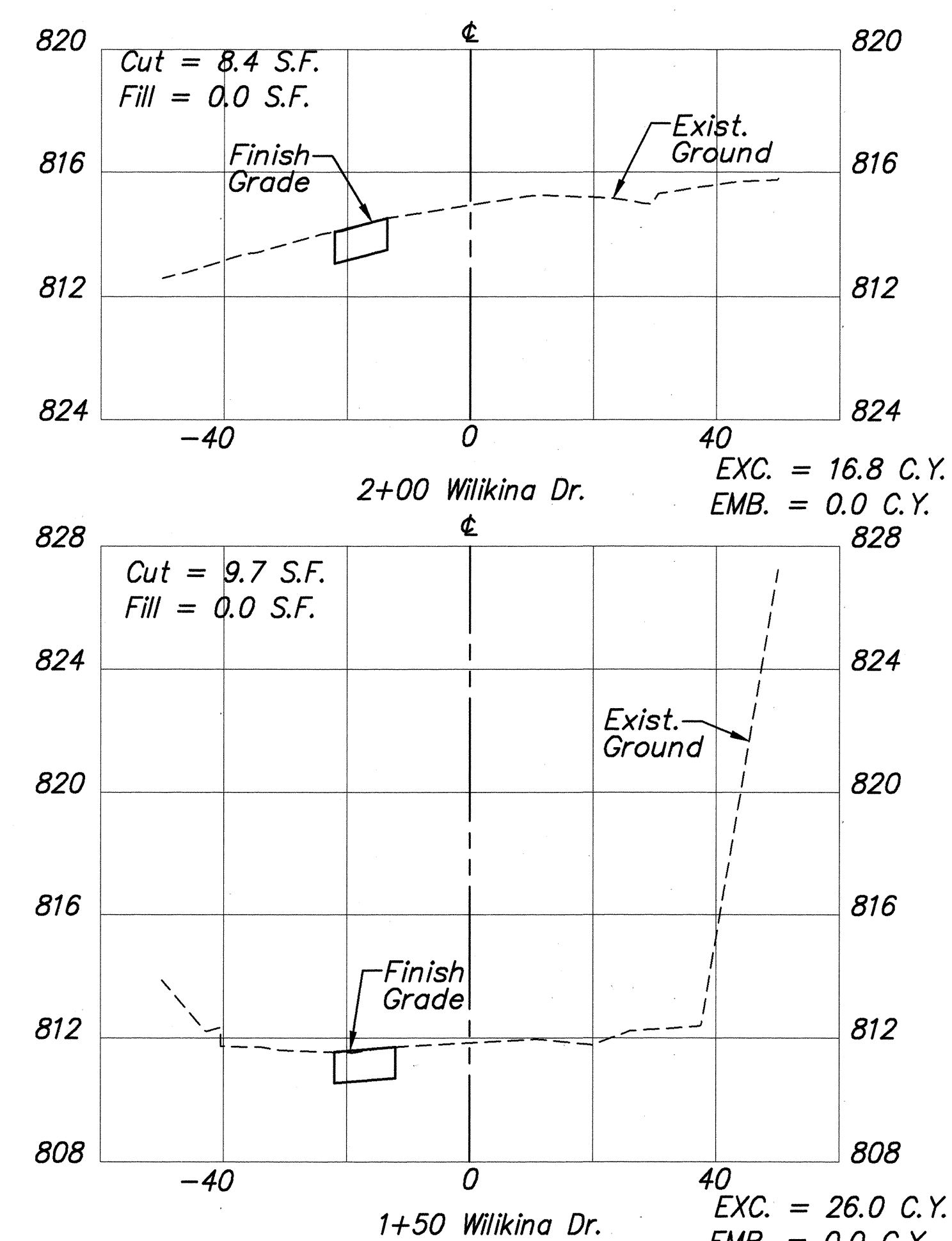
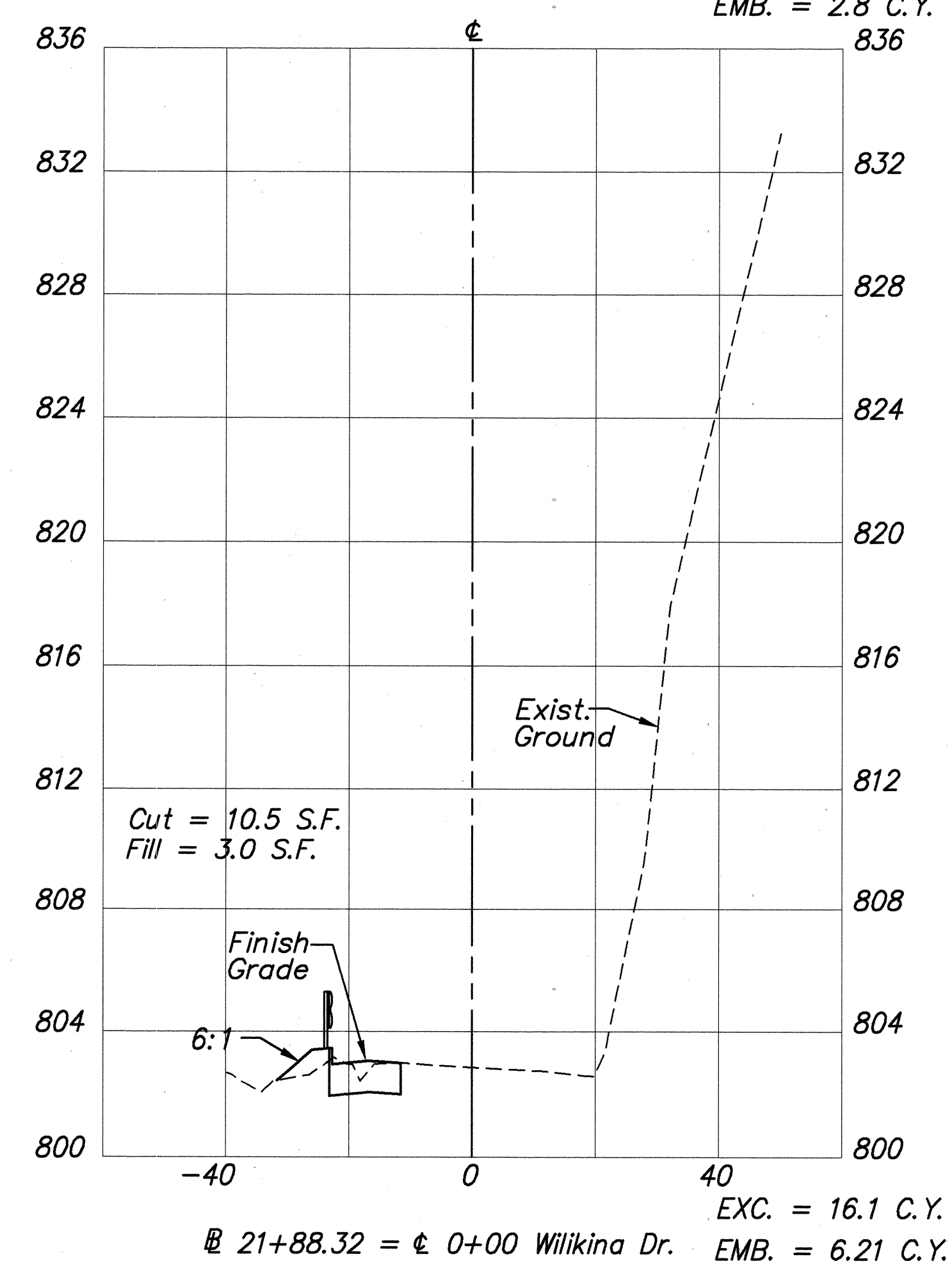
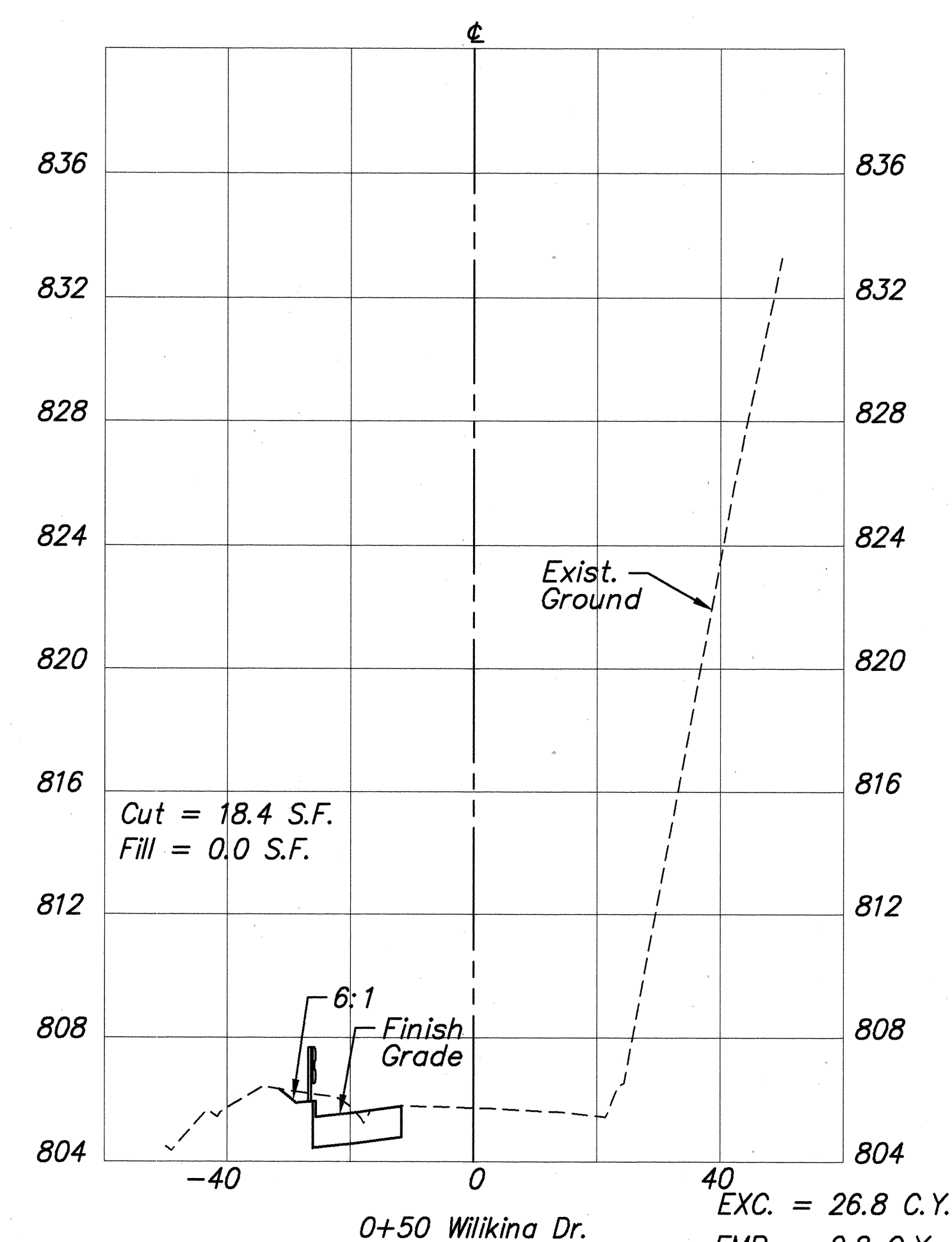
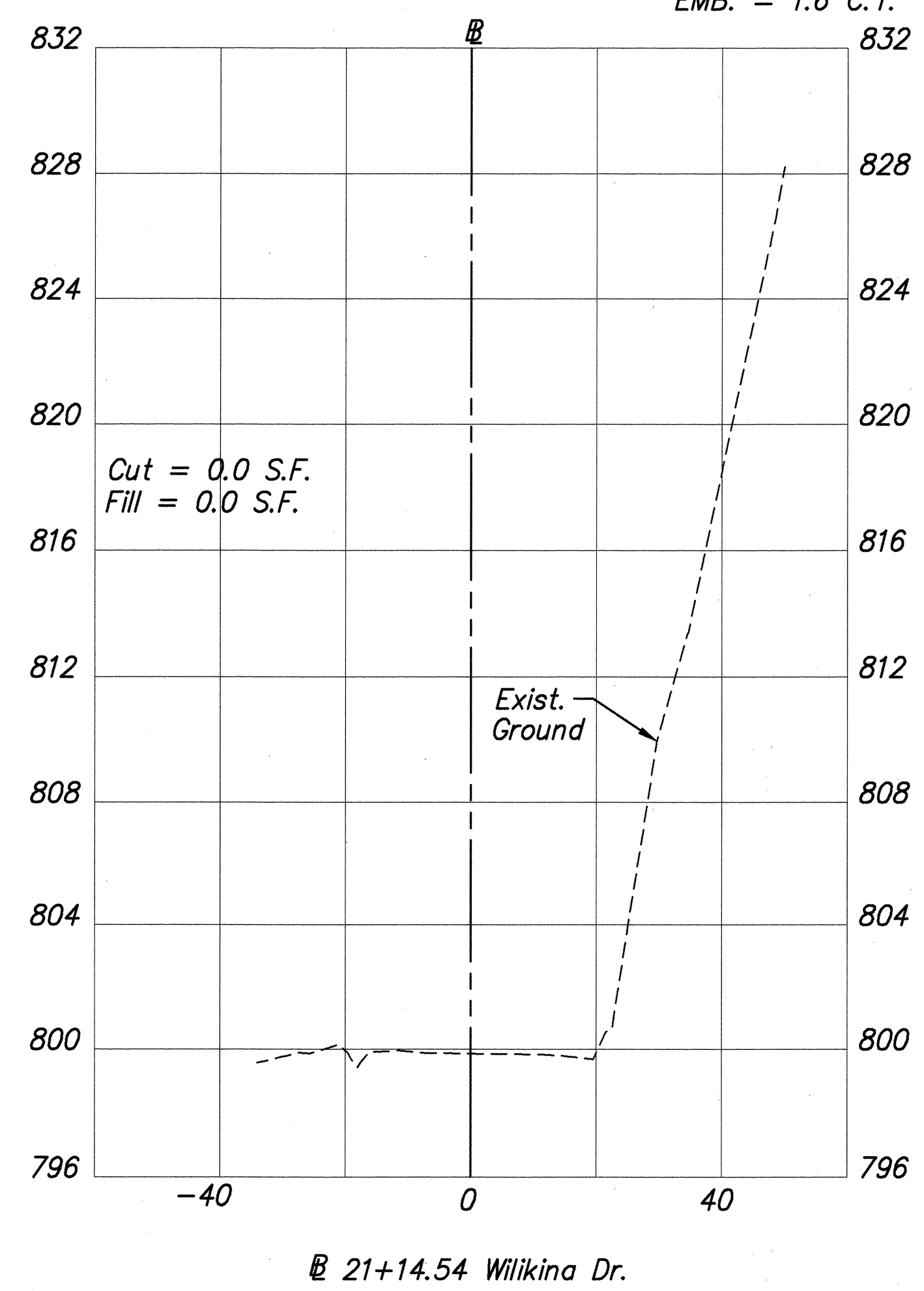
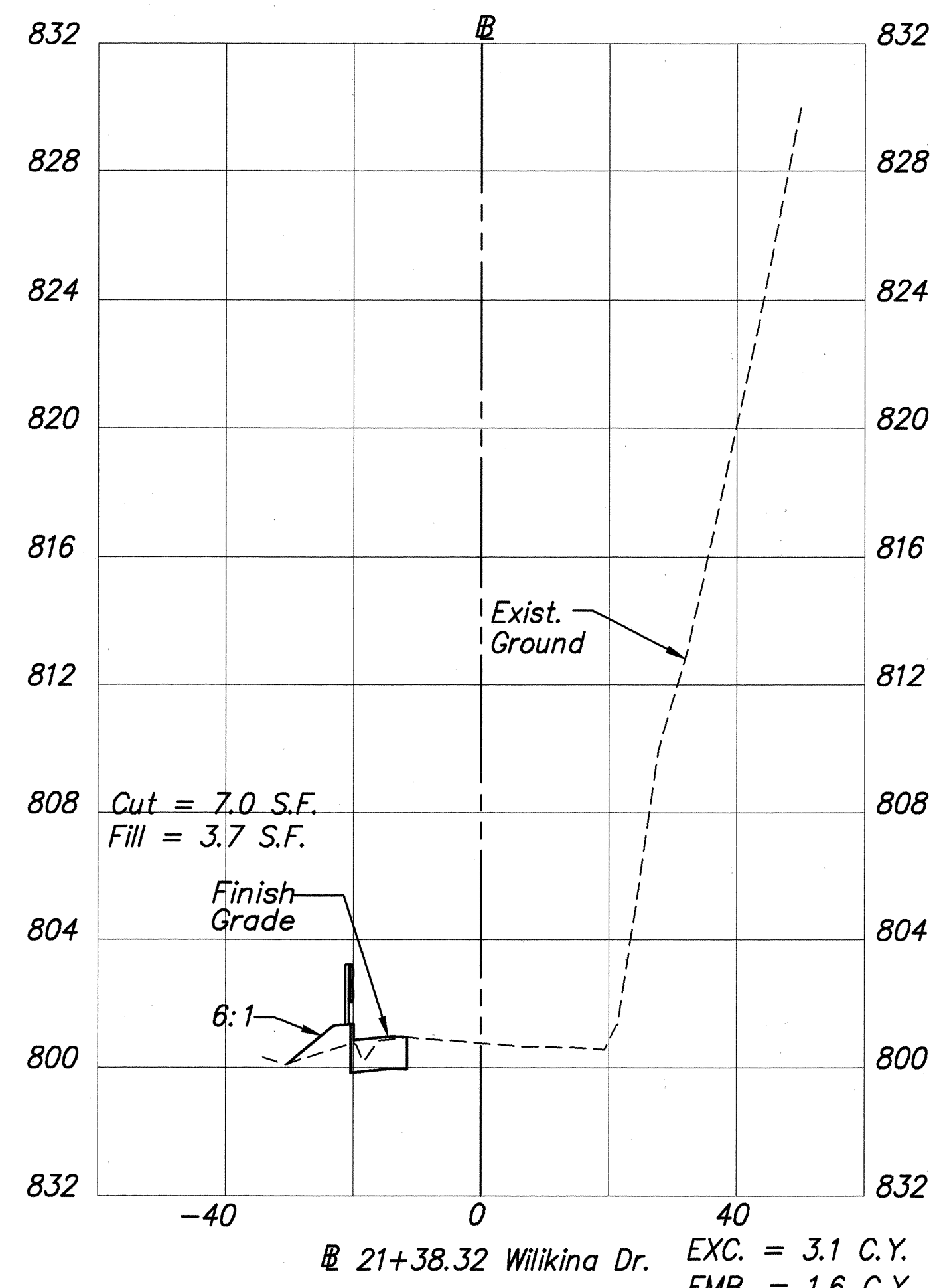
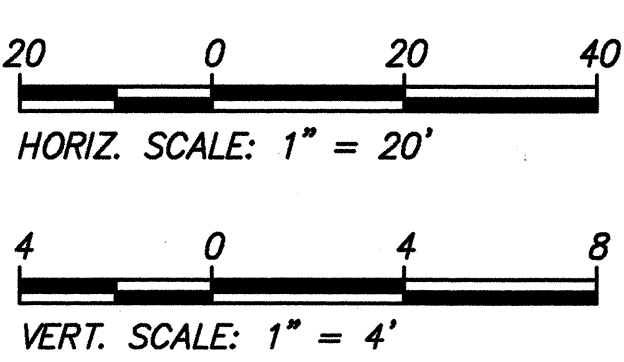
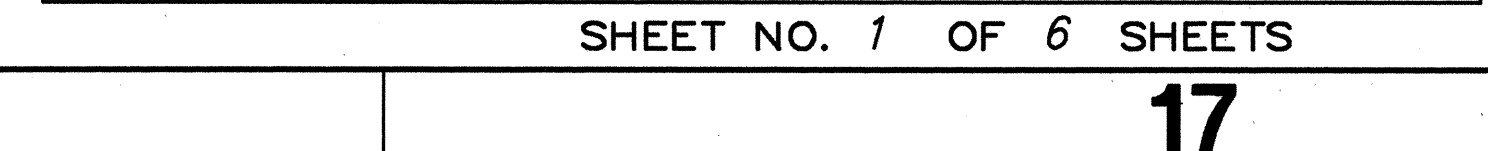
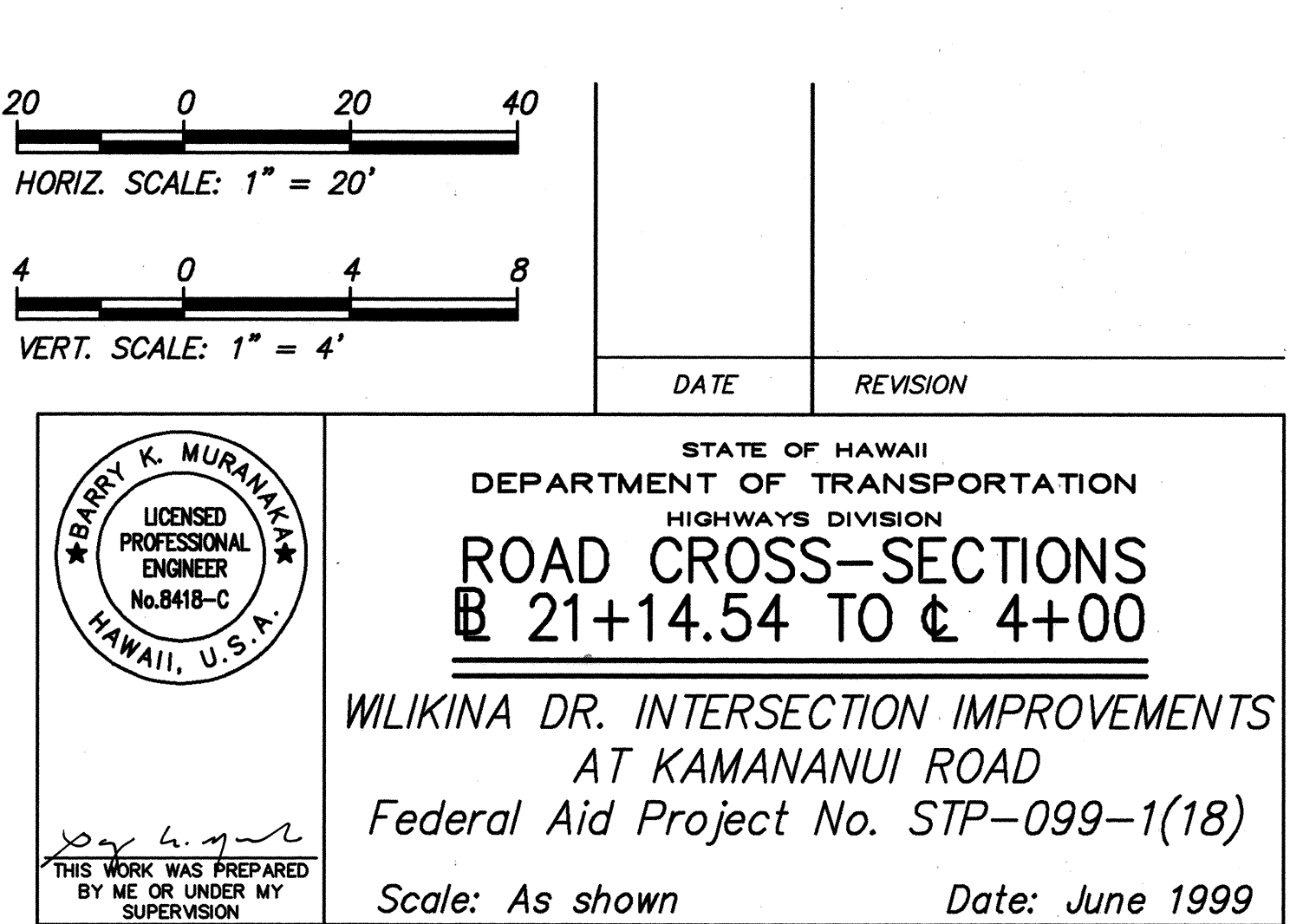
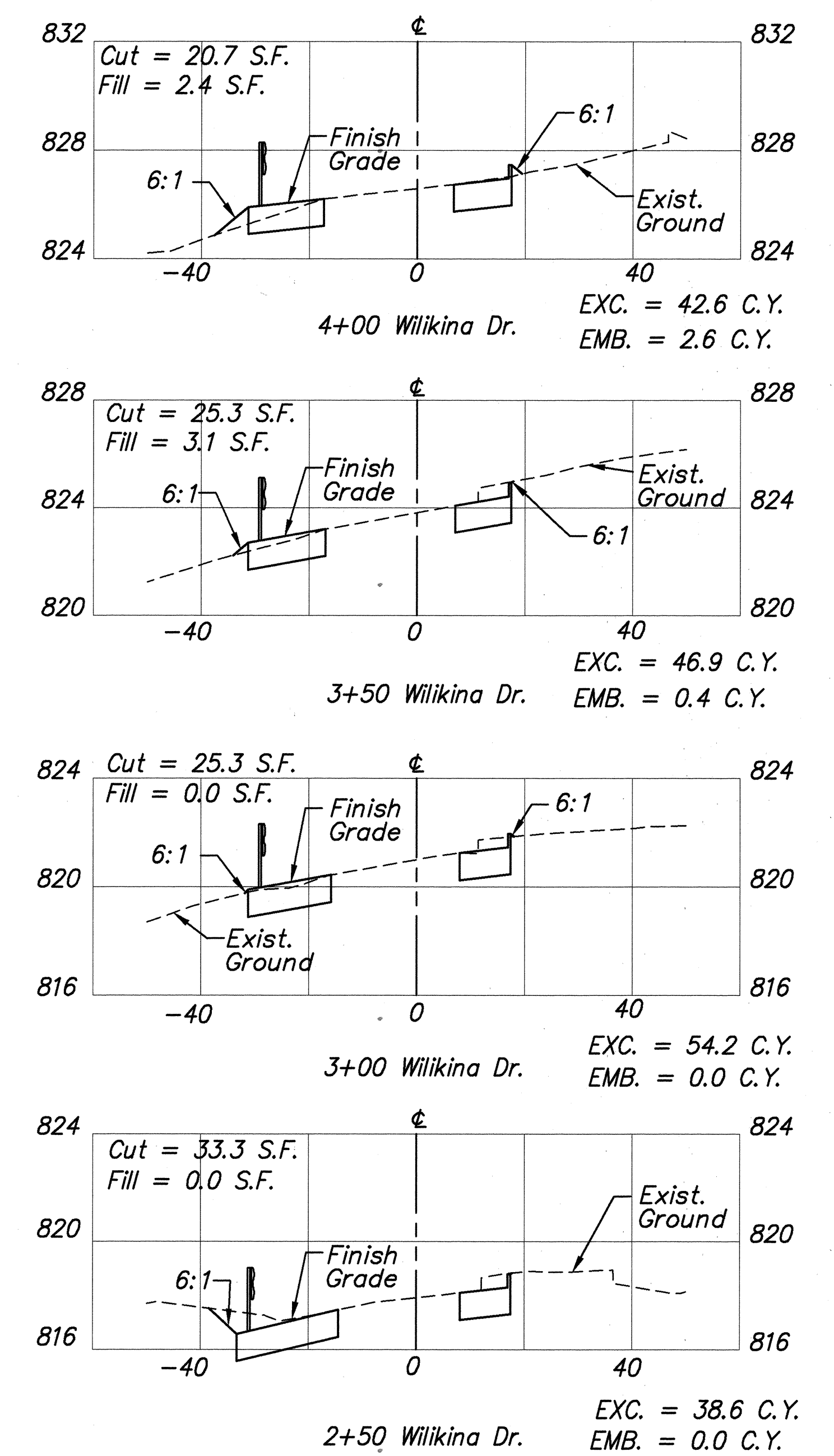


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	17	71

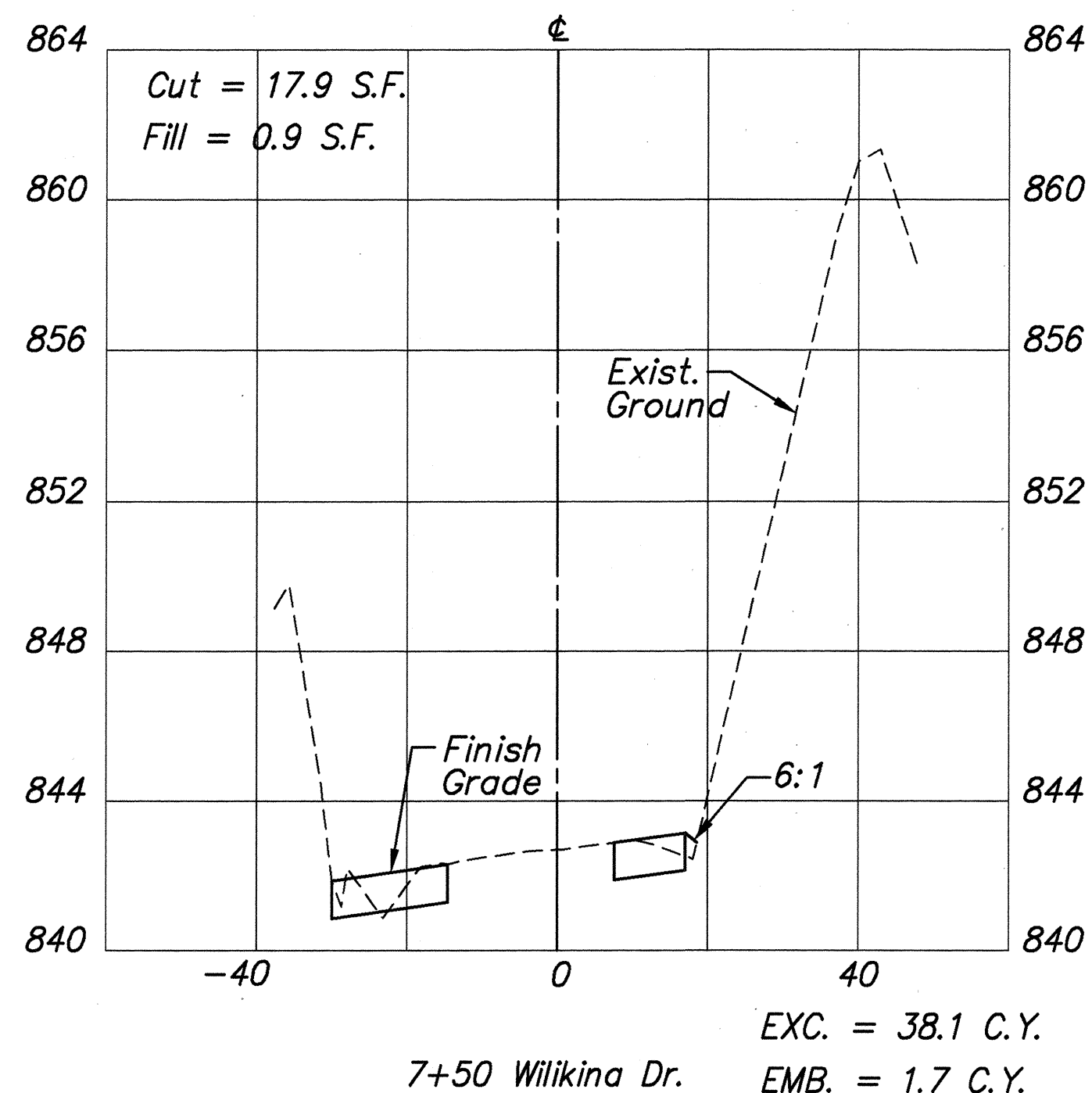
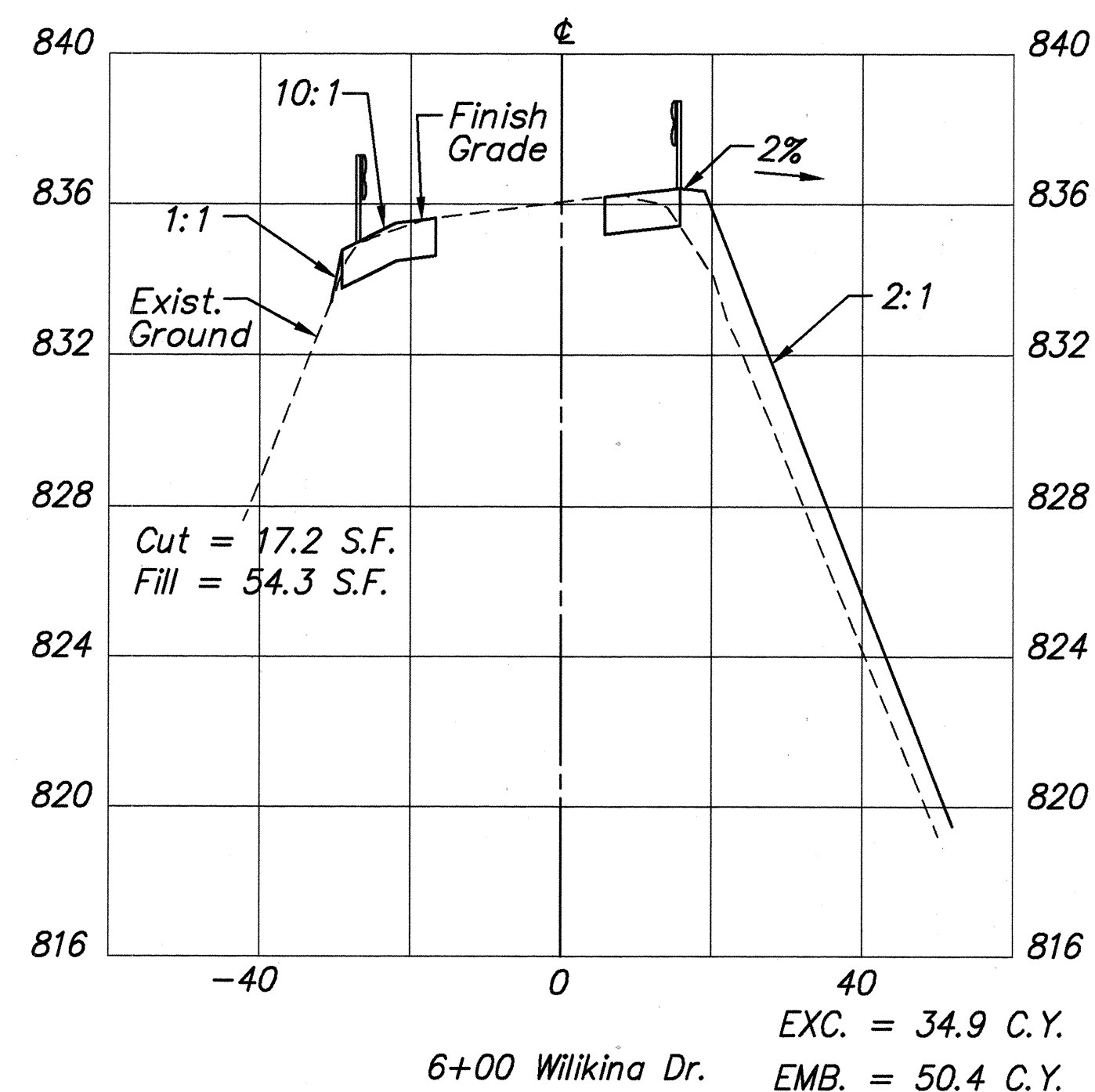
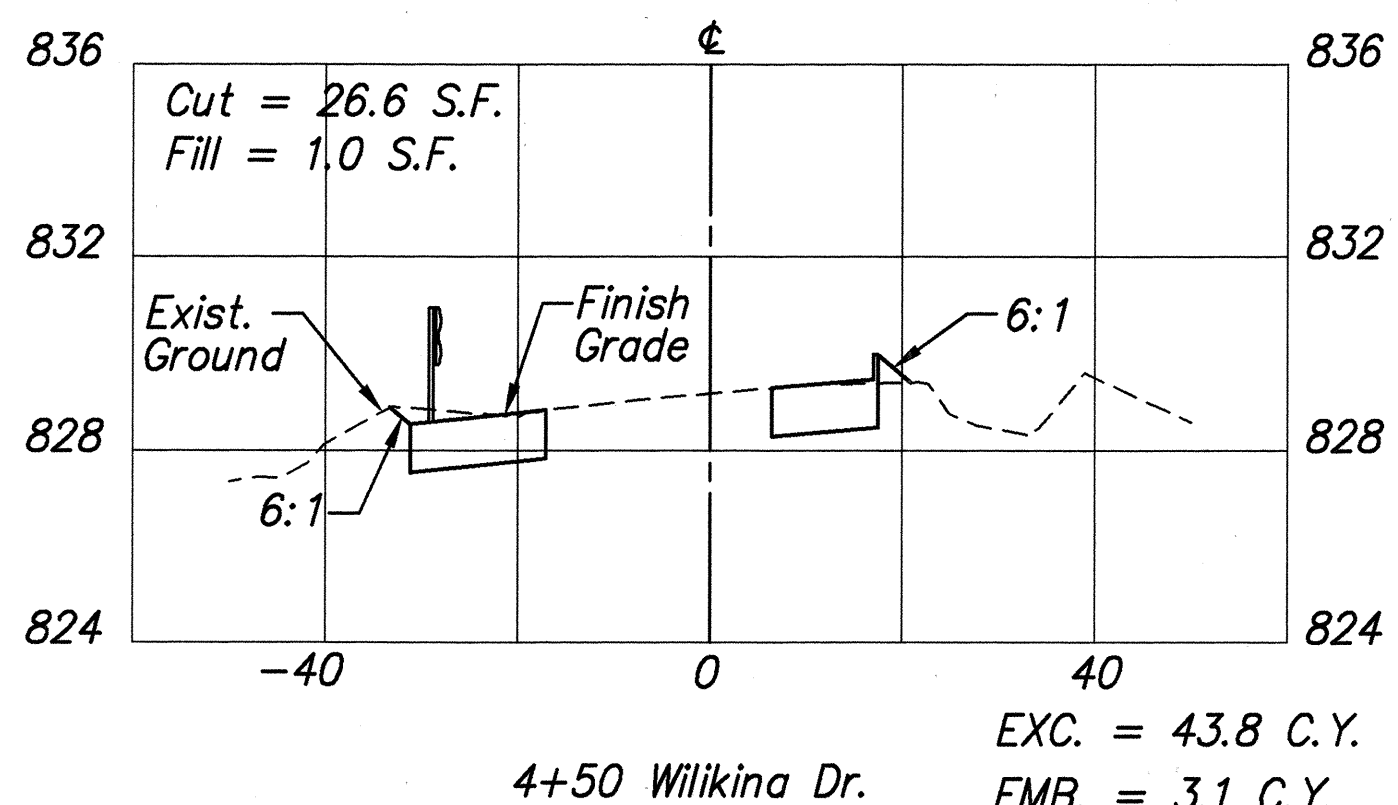
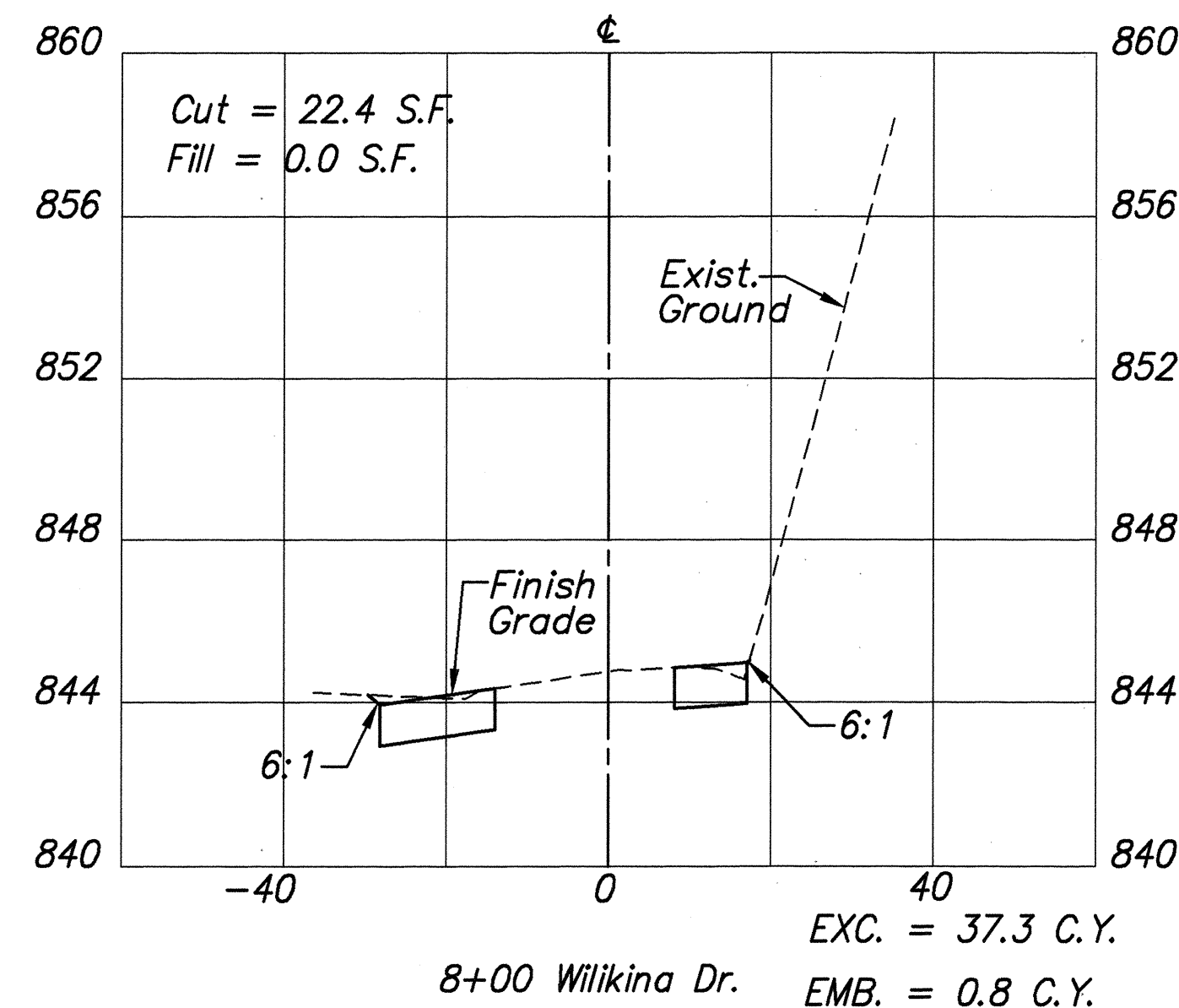
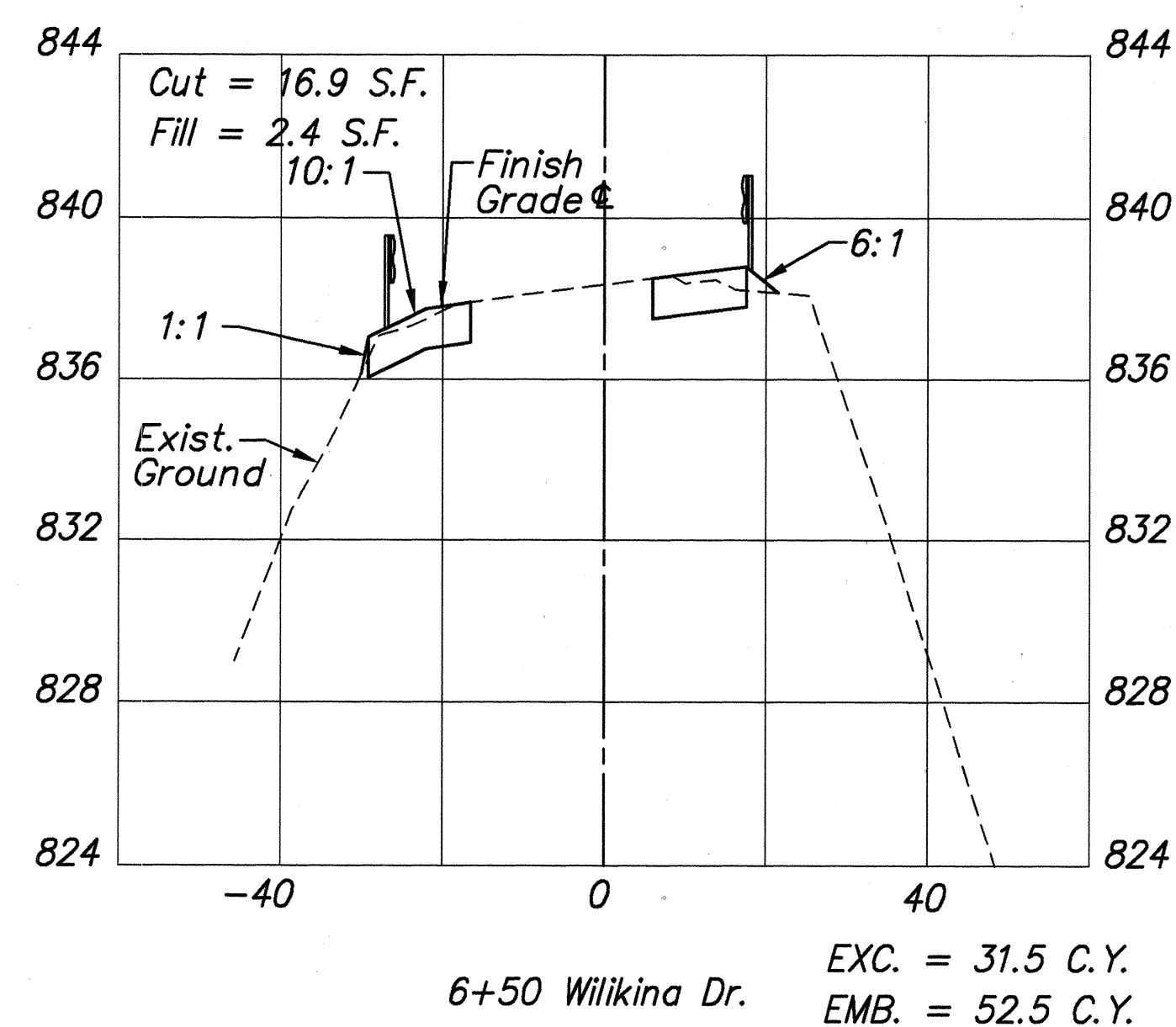
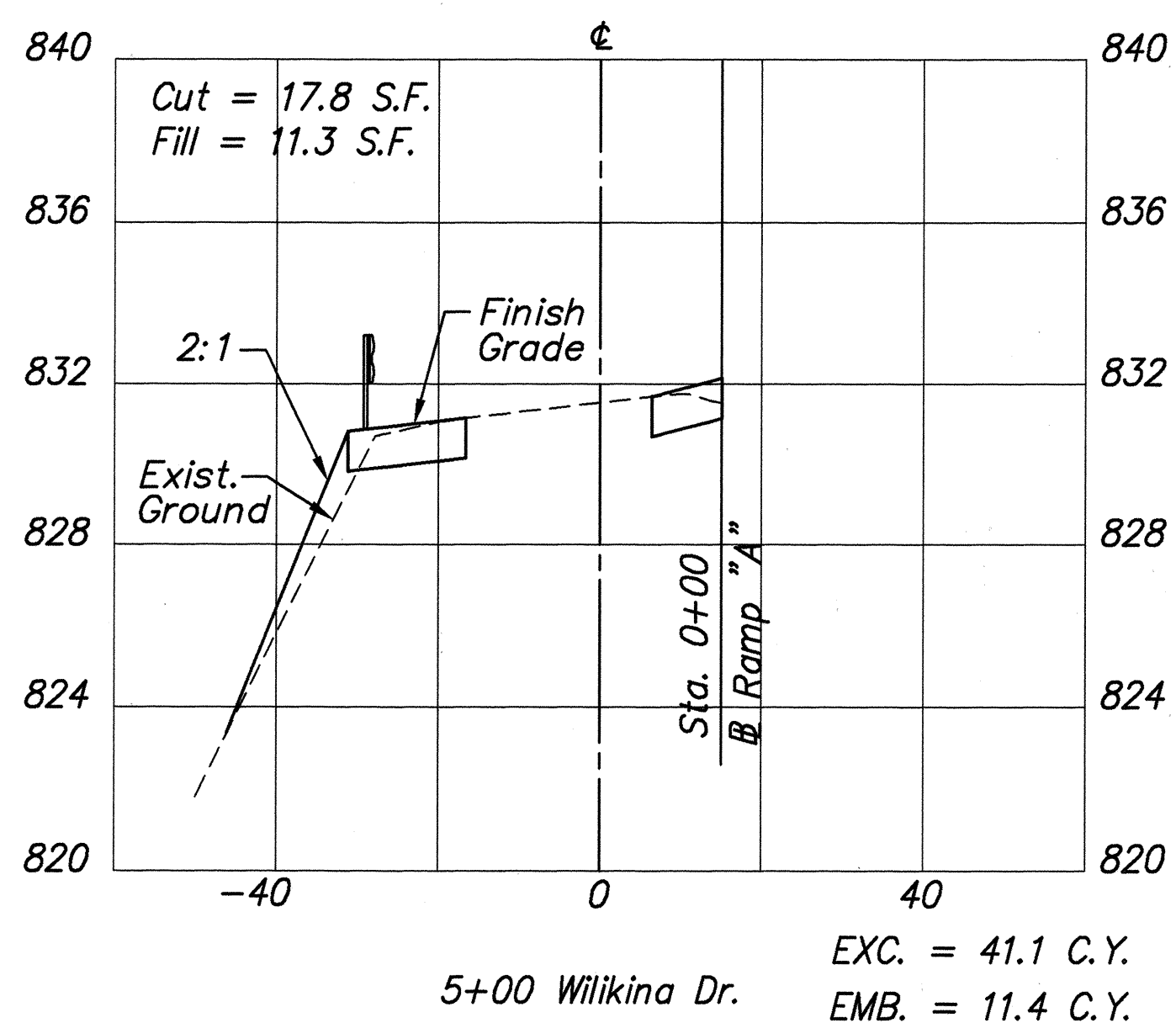
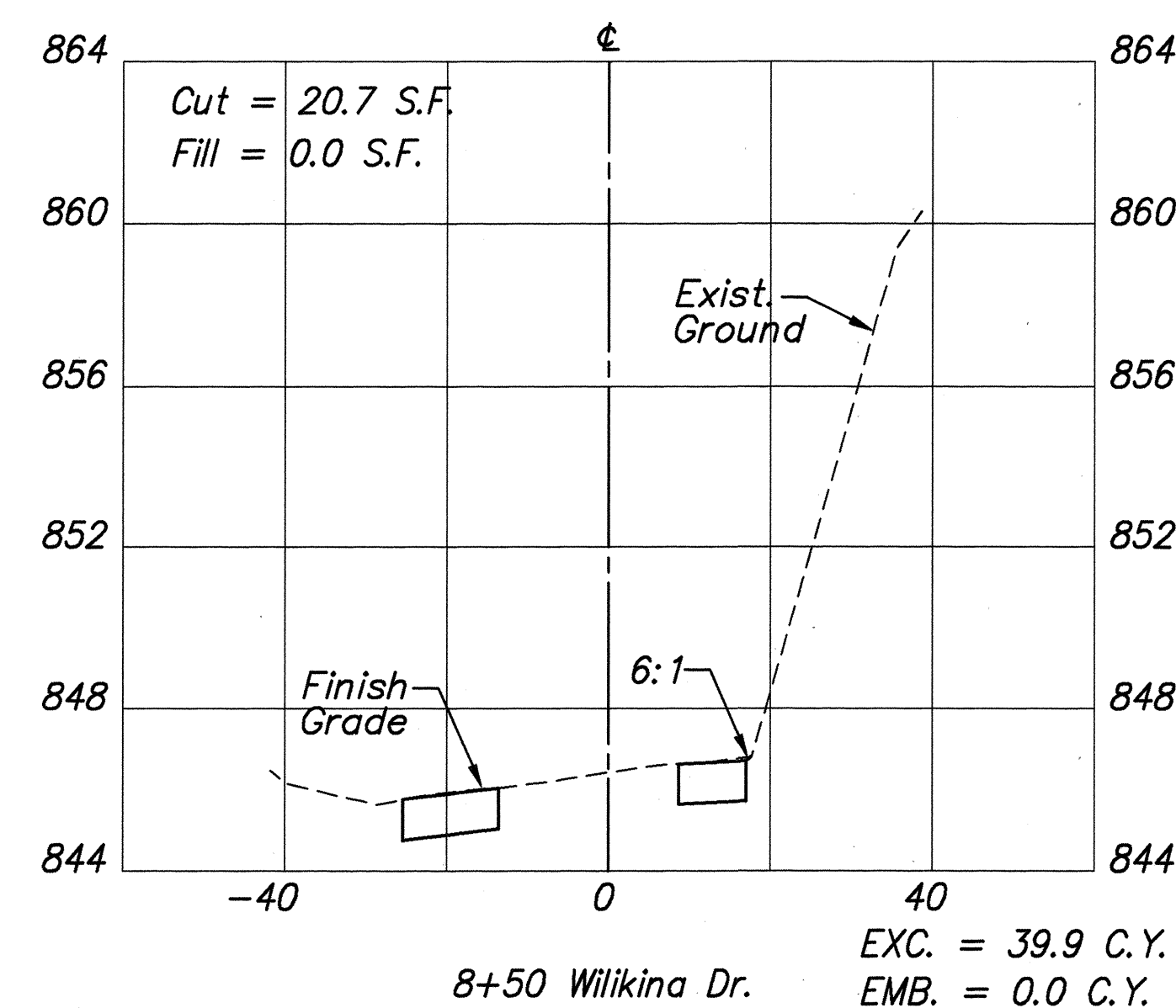
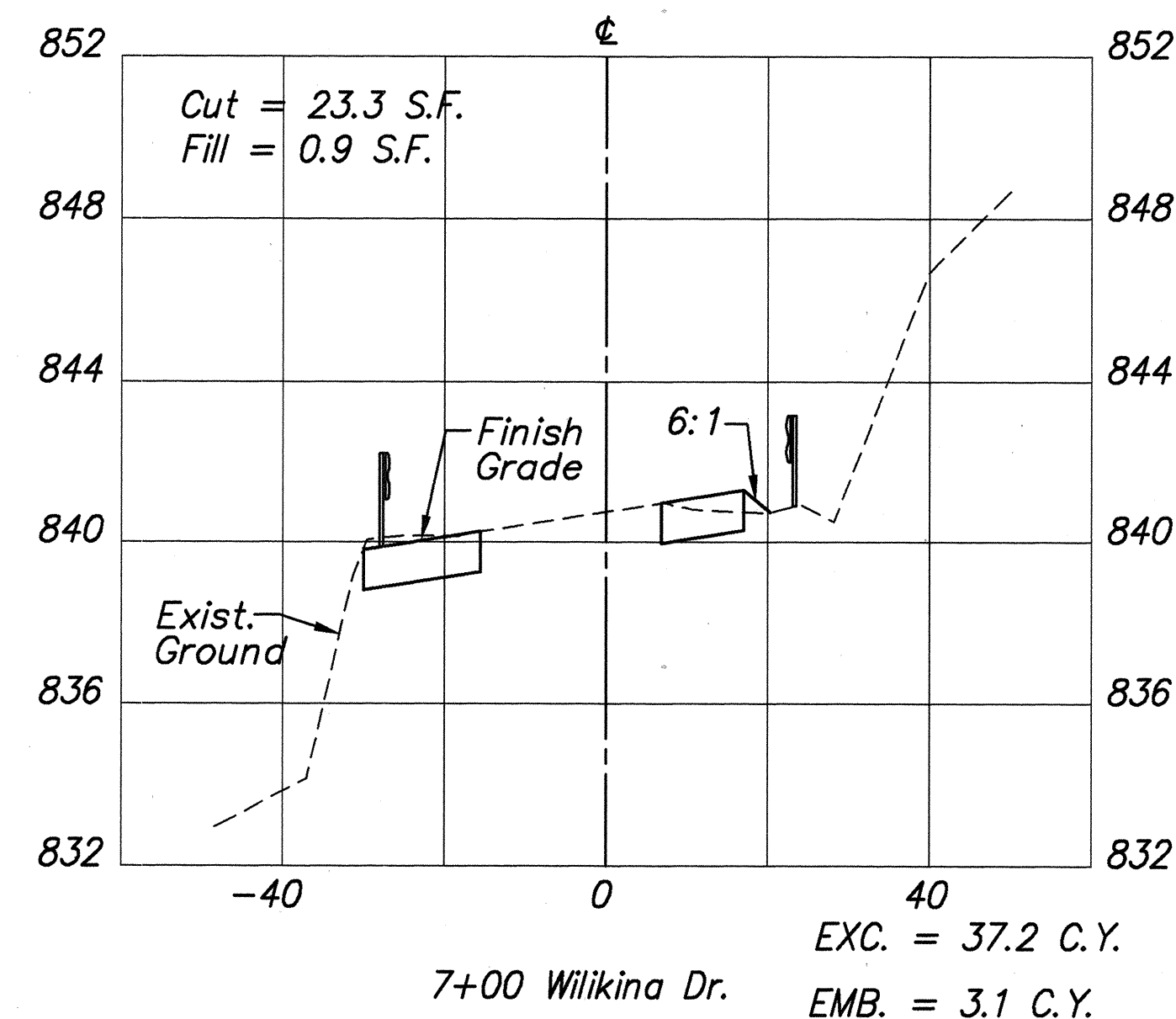
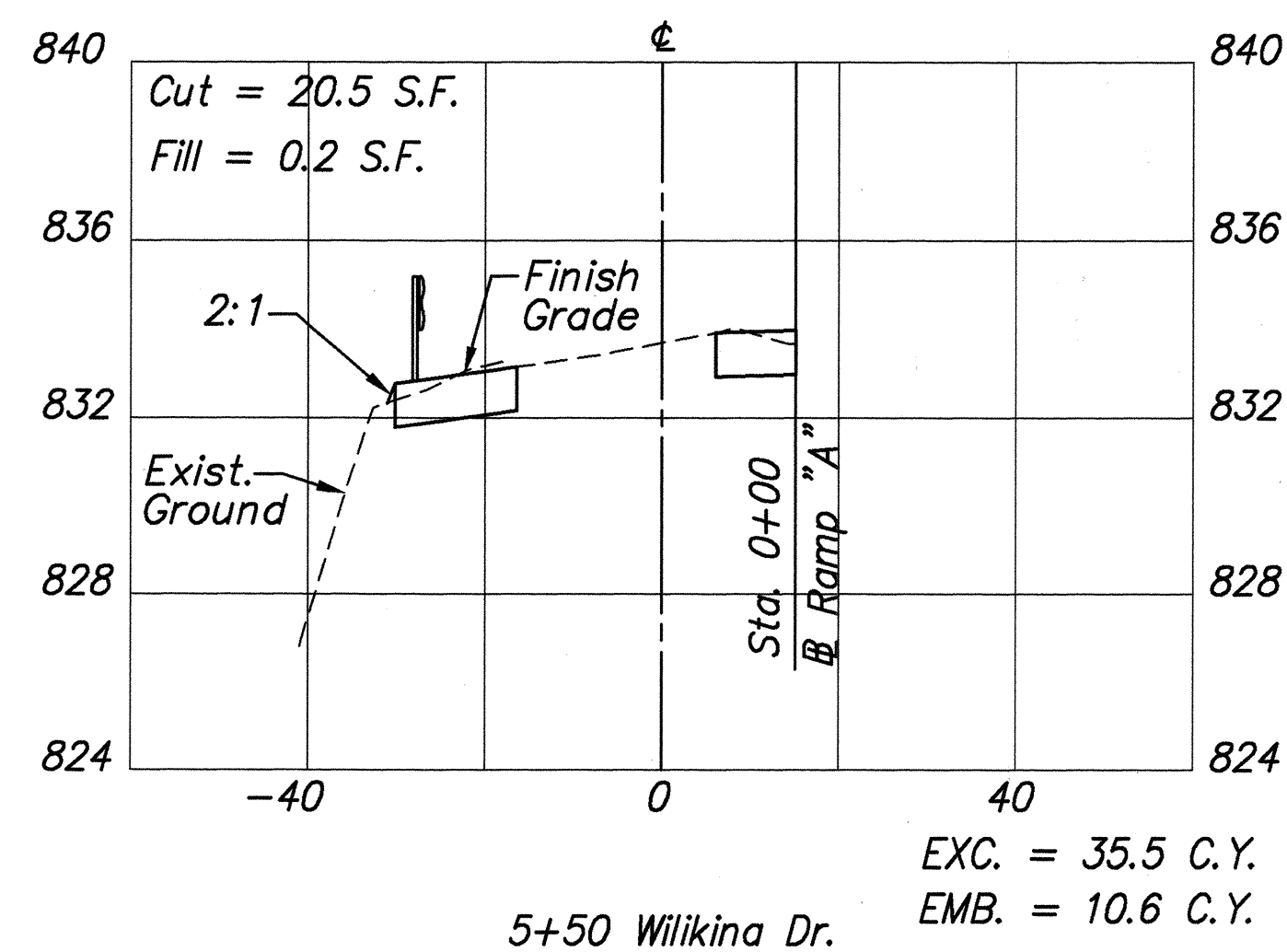


APPROVED: *M. 7/6/99*
Chief, Civil Engineering Branch, D.P.P. Date



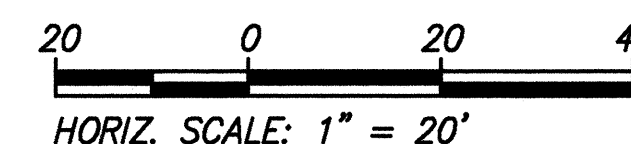
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS-SECTIONS
21+14.54 TO 4+00
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 1 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	18	71

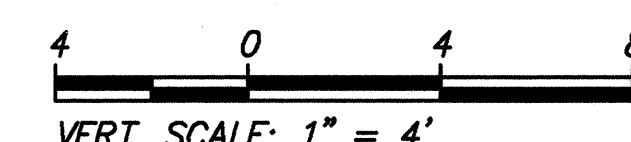


APPROVED:

M. Flynn 7/6/99
Chief, Civil Engineering Branch, D.P.P. SA/ Date

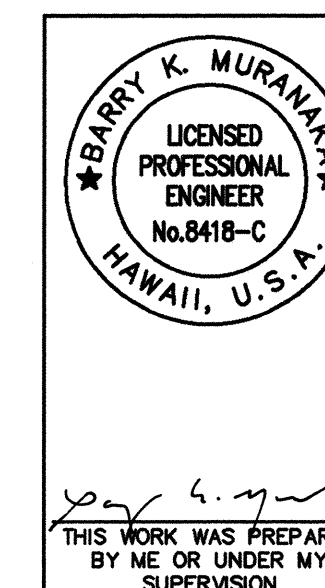


HORIZ. SCALE: 1" = 20'



VERT. SCALE: 1" = 4'

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

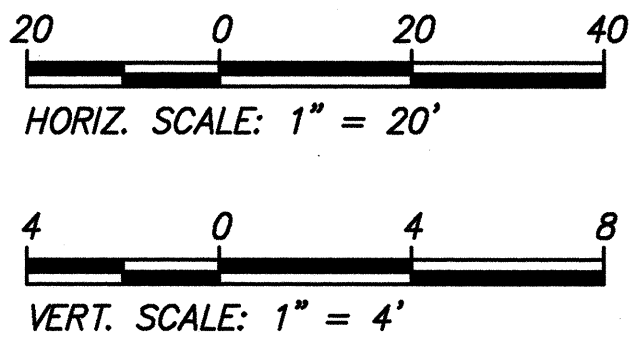
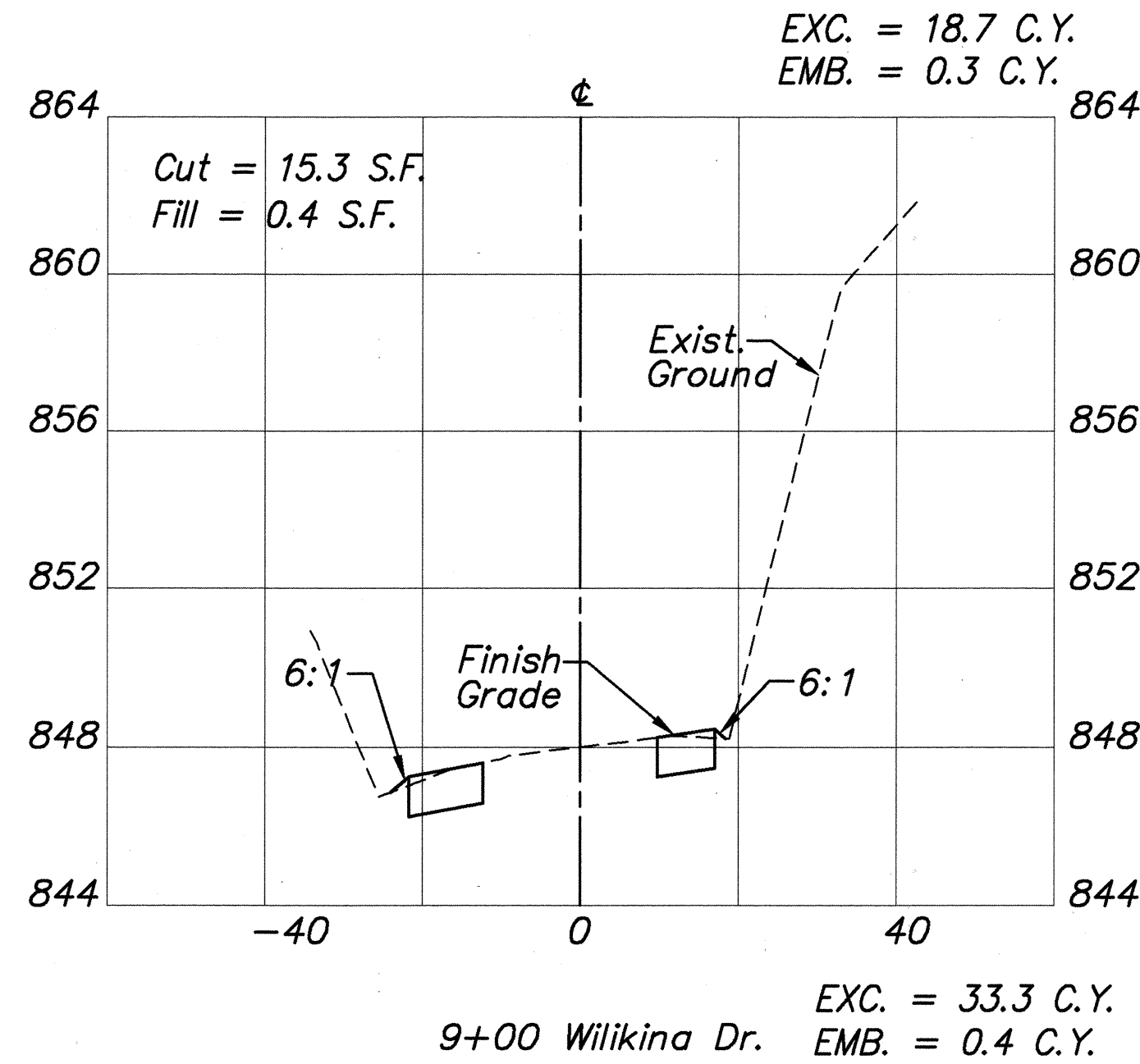
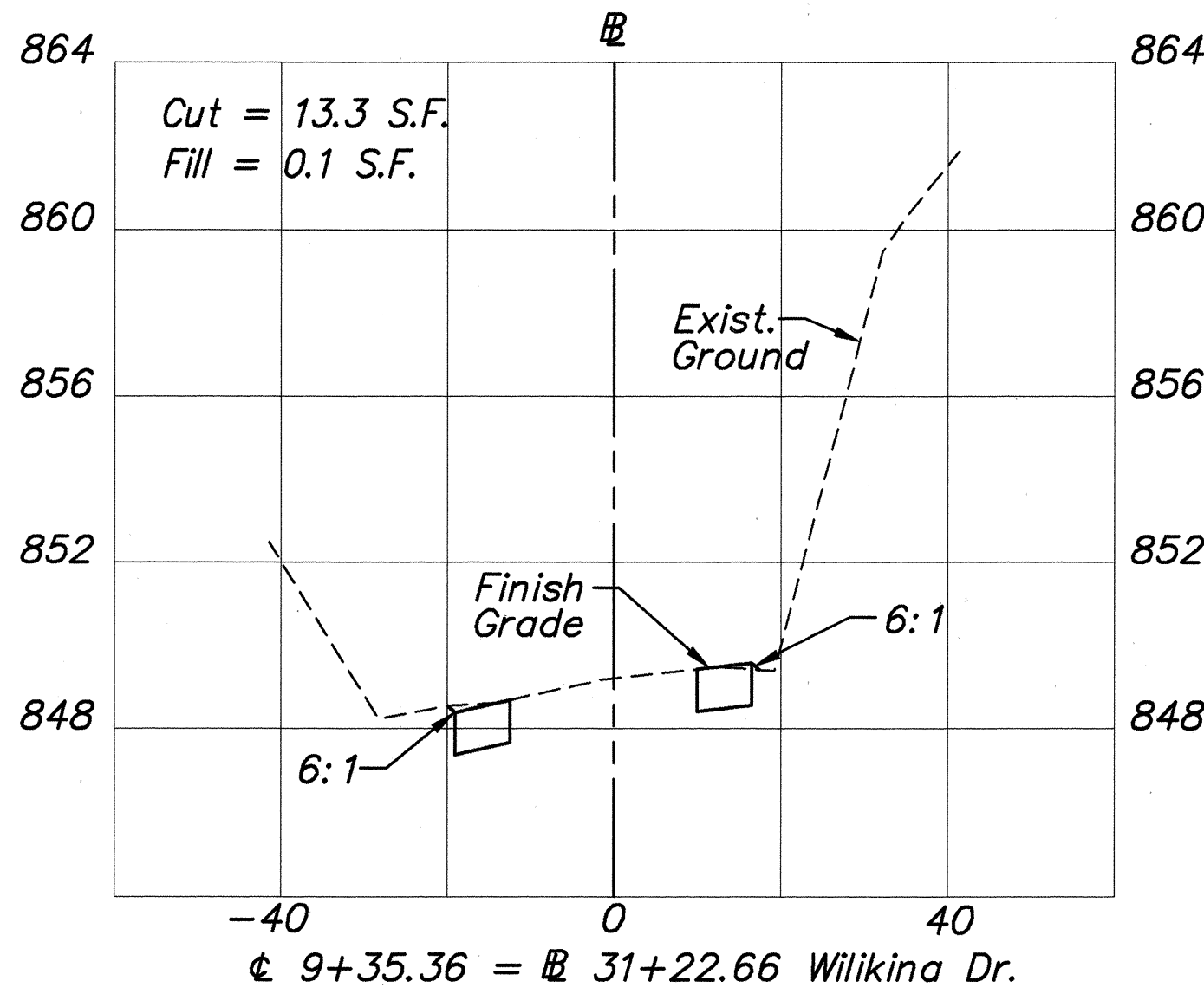
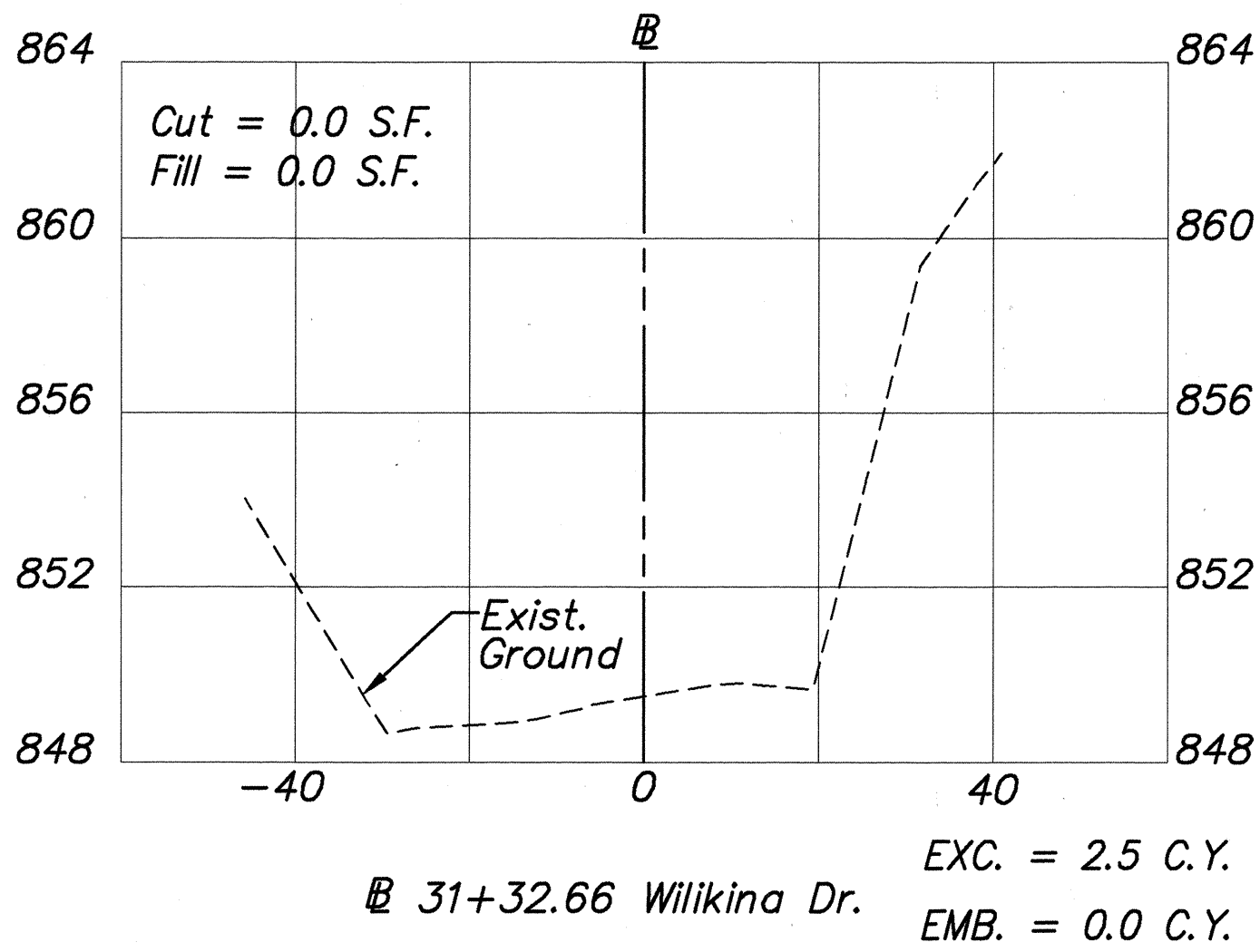
ROAD CROSS-SECTIONS

WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)

Scale: As shown Date: June 1999

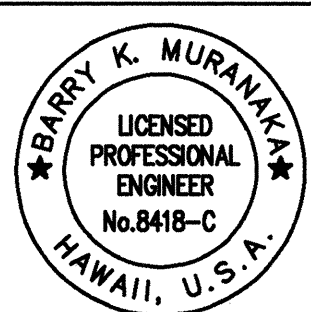
SHEET NO. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	19	71



APPROVED:

M. J. [Signature] 7/6/99
Chief, Civil Engineering Branch, D.P.P. *SN* Date

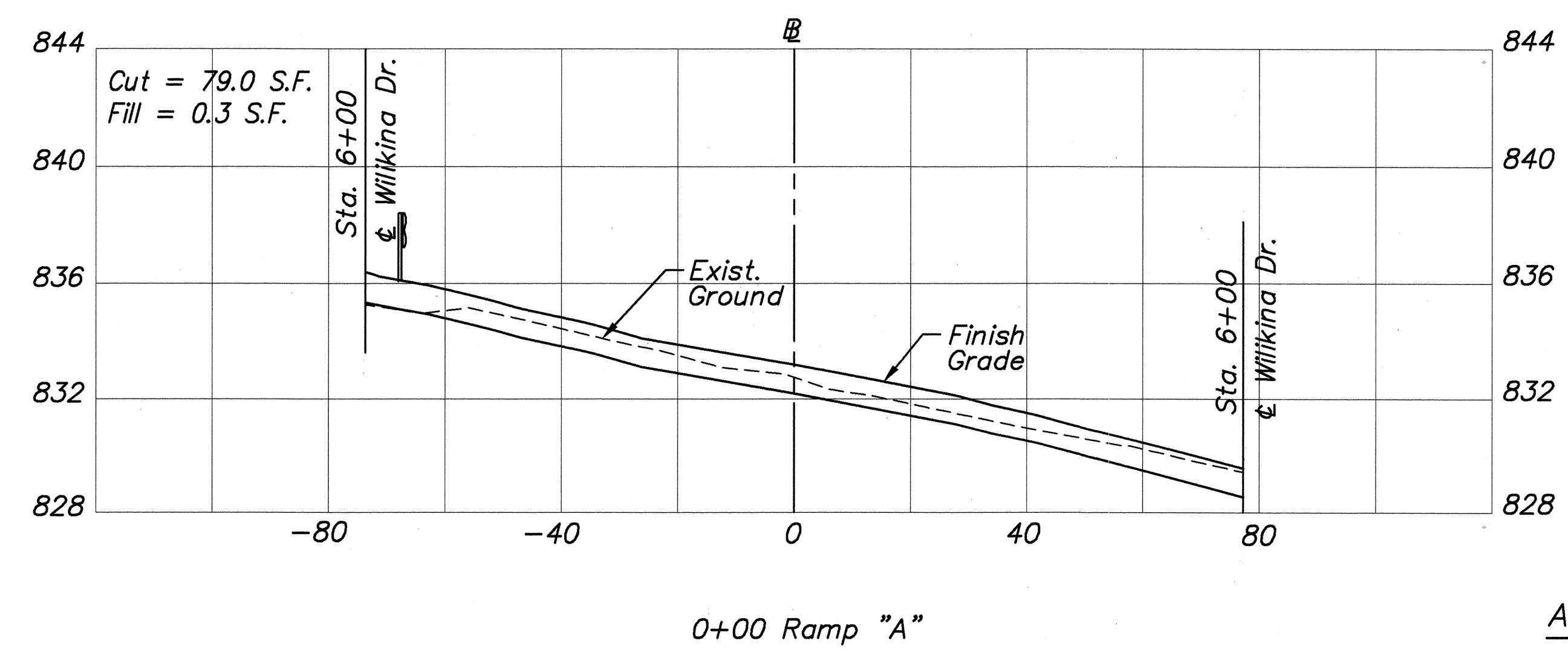
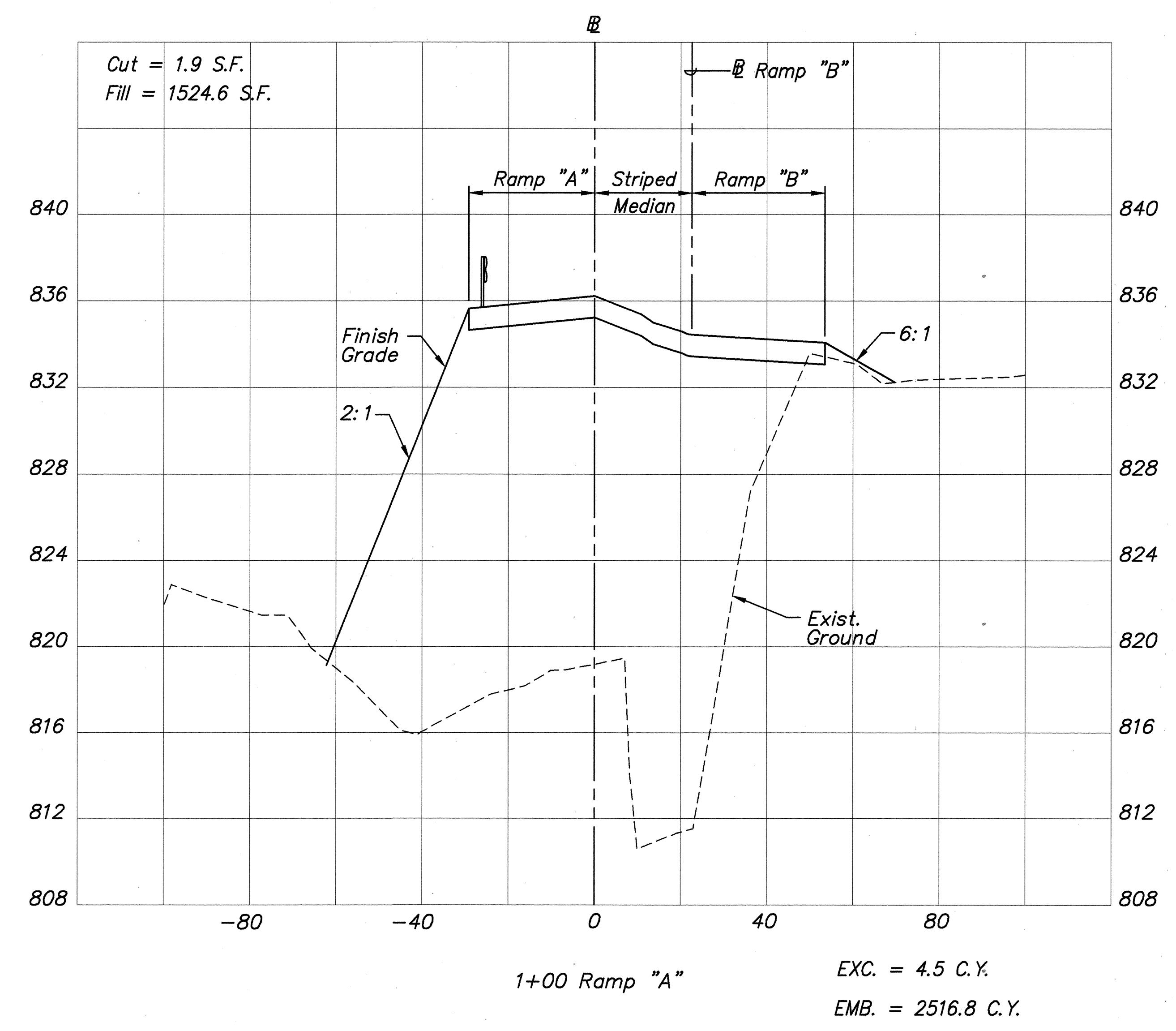
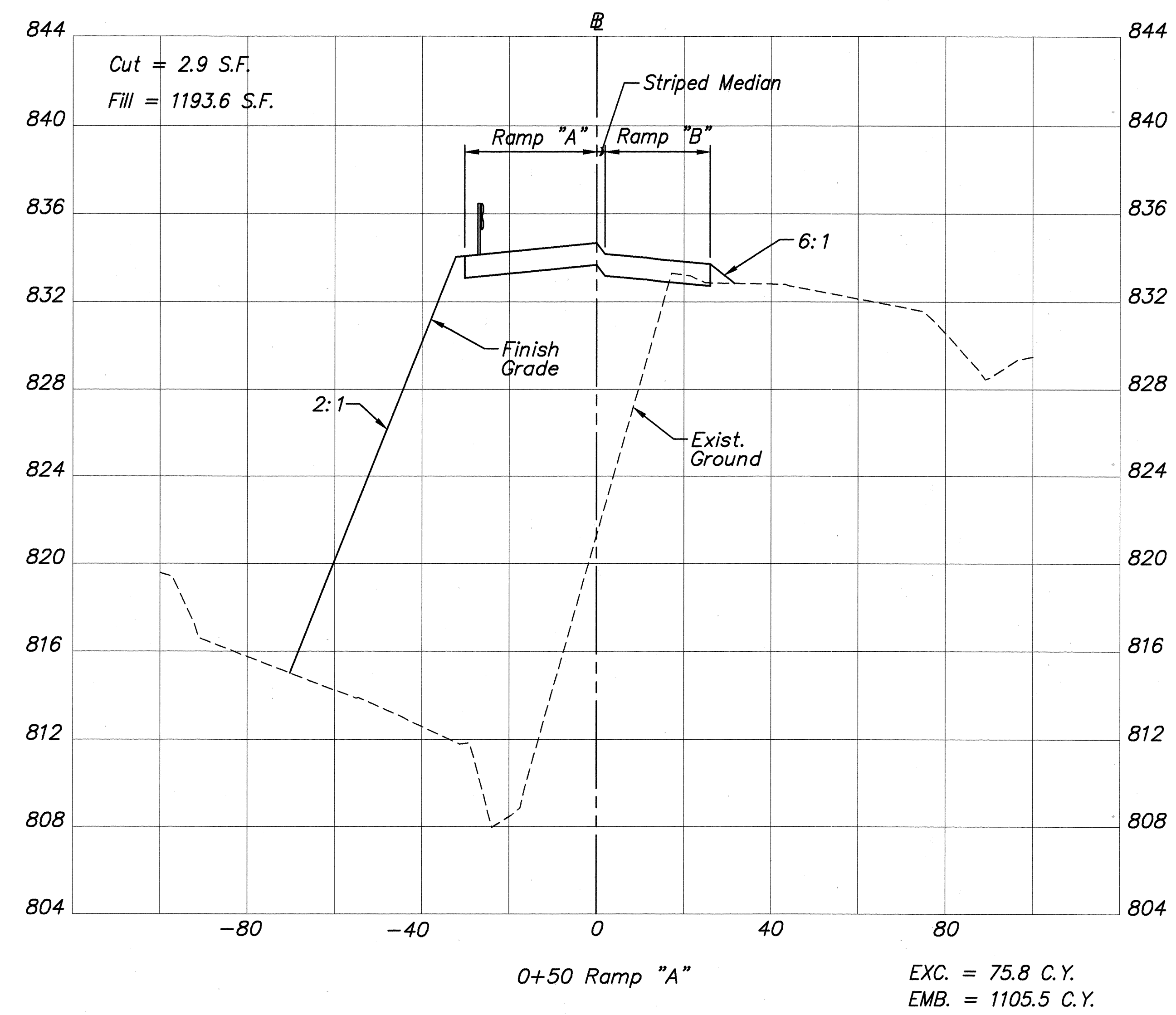


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS-SECTIONS
9+00 TO 31+32.66
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 3 OF 6 SHEETS

DATE	SURVEY PLOTTED BY
DATE	DRAWN BY
DATE	REVISION BY
DATE	CHECKED BY
DATE	ORIGINAL PLAN
DATE	NOTED BY
DATE	NO.

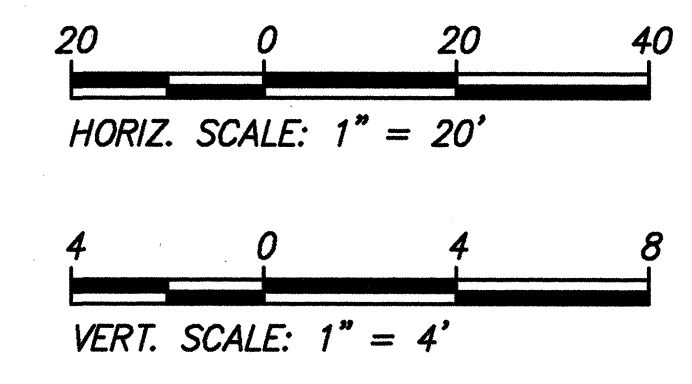
FILE: DOT95224
SCALE: 1"=20'
BEG: 07/30/97
PM: STY
OPER: BKM/KKF, OKY, *RGQ
REVISED: 03/26/99

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	20	71



APPROVED:

M. J. [Signature] 7/6/99
Chief, Civil Engineering Branch, D.P.P. Date



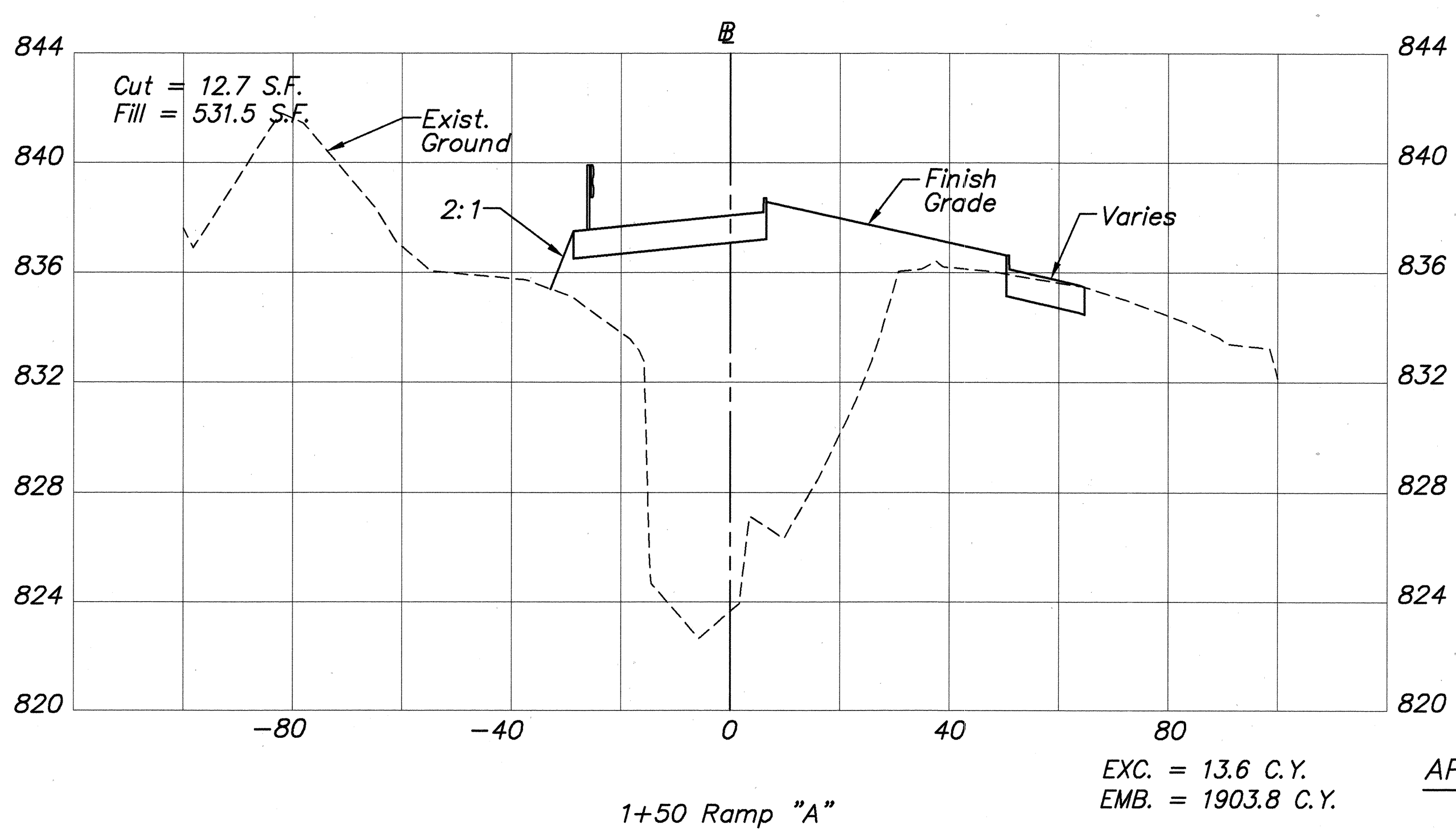
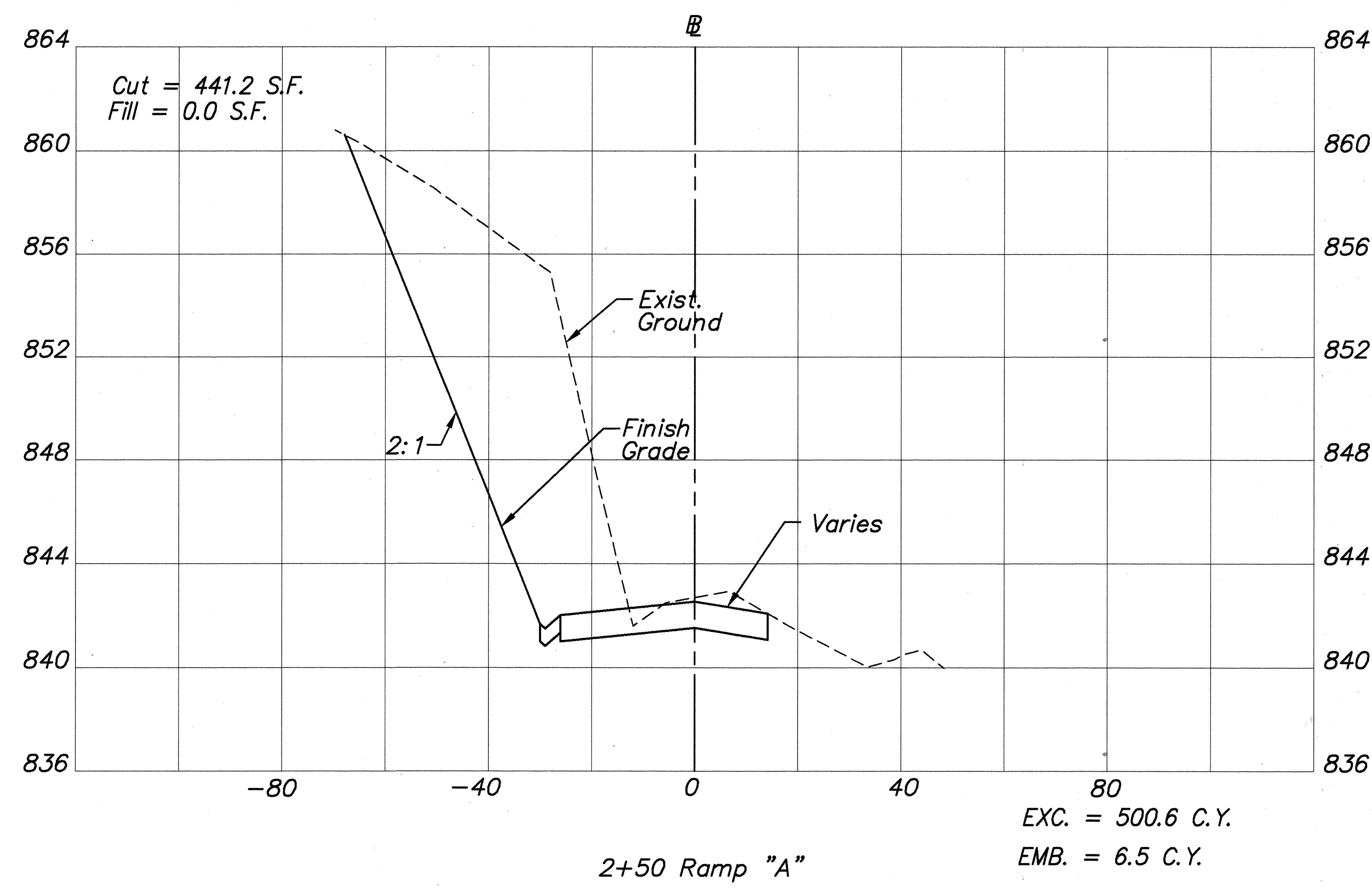
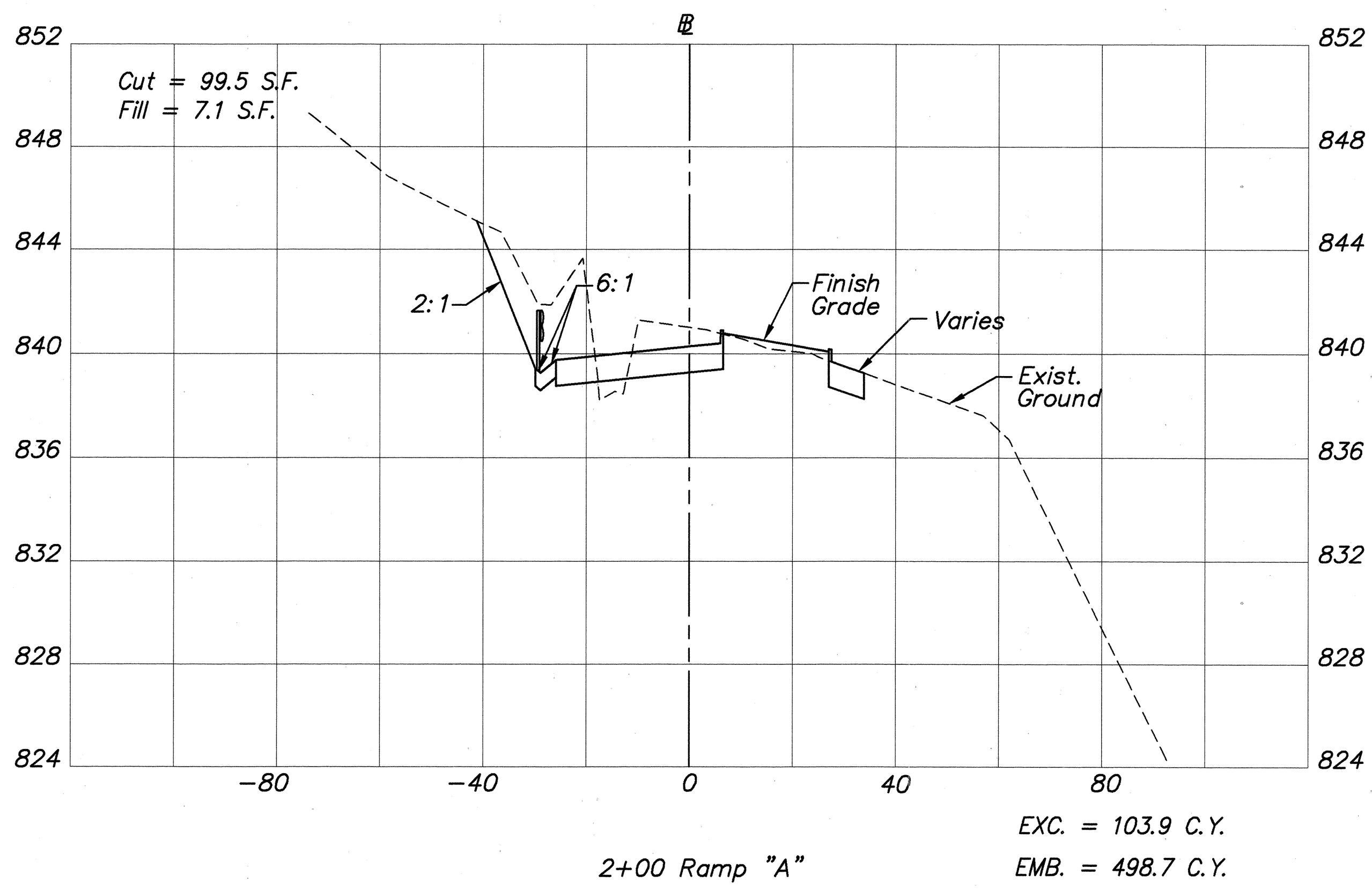
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS-SECTIONS
RAMP "A" 0+00 TO 1+00
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 4 OF 6 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
NOTED BY	
REVISION	
DATE	

FILE: DOT95225
SCALE: 1"=20'
BEG: 07/30/97

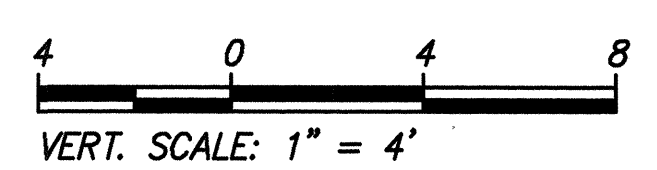
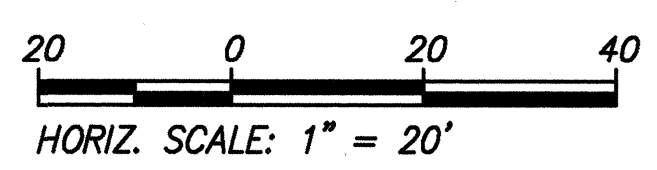
PM: STY
OPER: BKM,KKF,RGQ,*MSM
REVISED: 05/25/99

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	21	71



APPROVED:

M. J. [Signature] 7/6/99
Chief, Civil Engineering Branch, D.P.P. Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS-SECTIONS
RAMP "A" 1+50 TO 2+50
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 5 OF 6 SHEETS

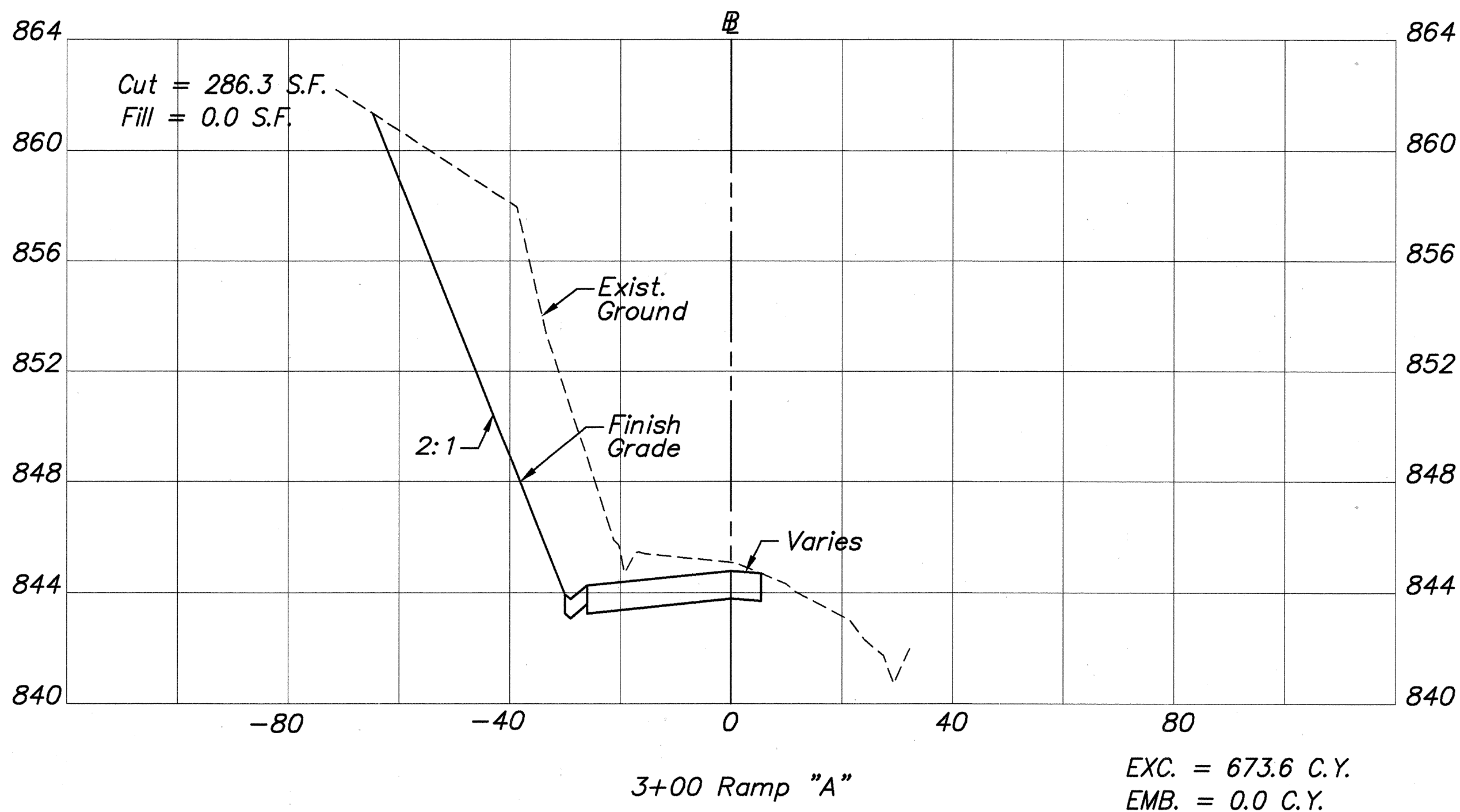
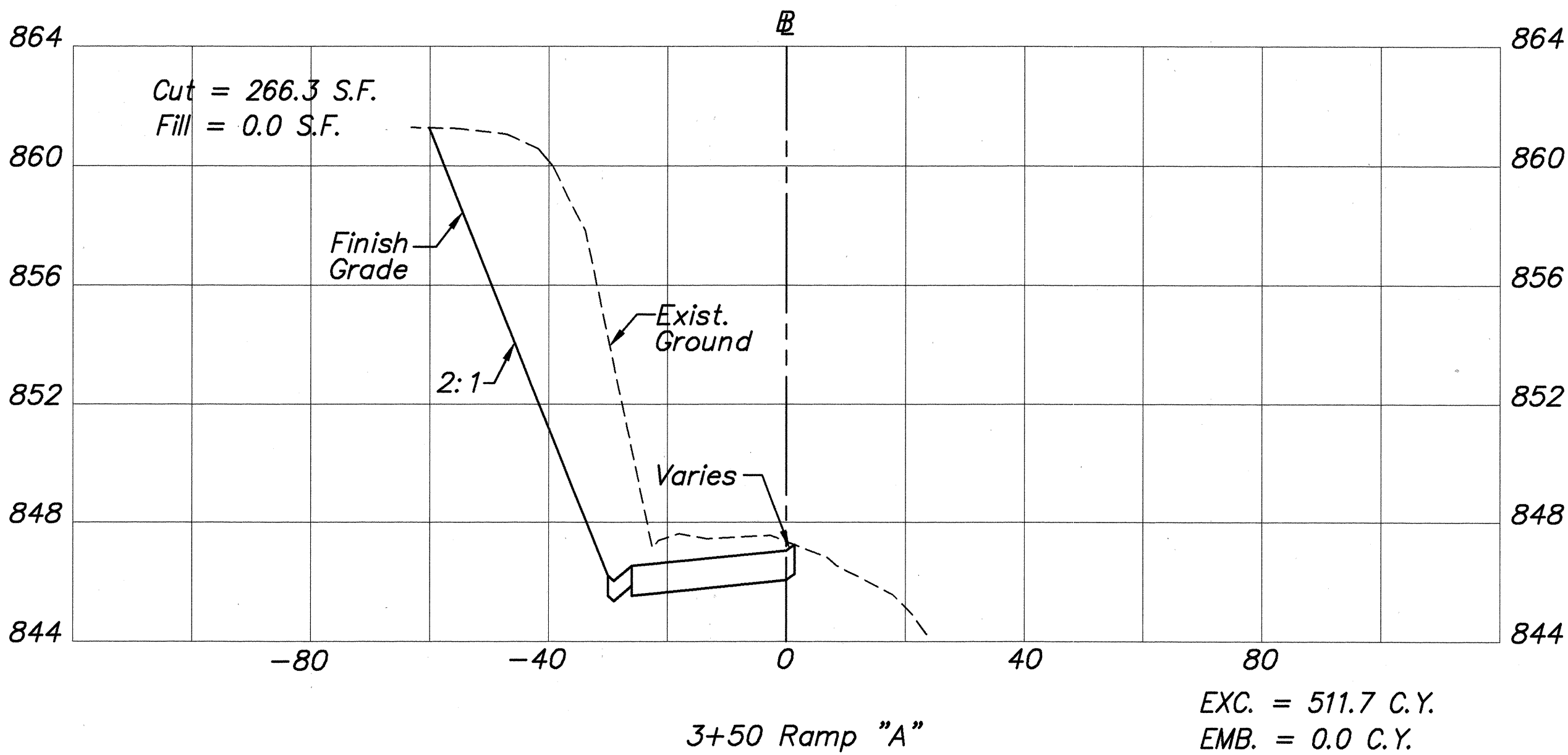
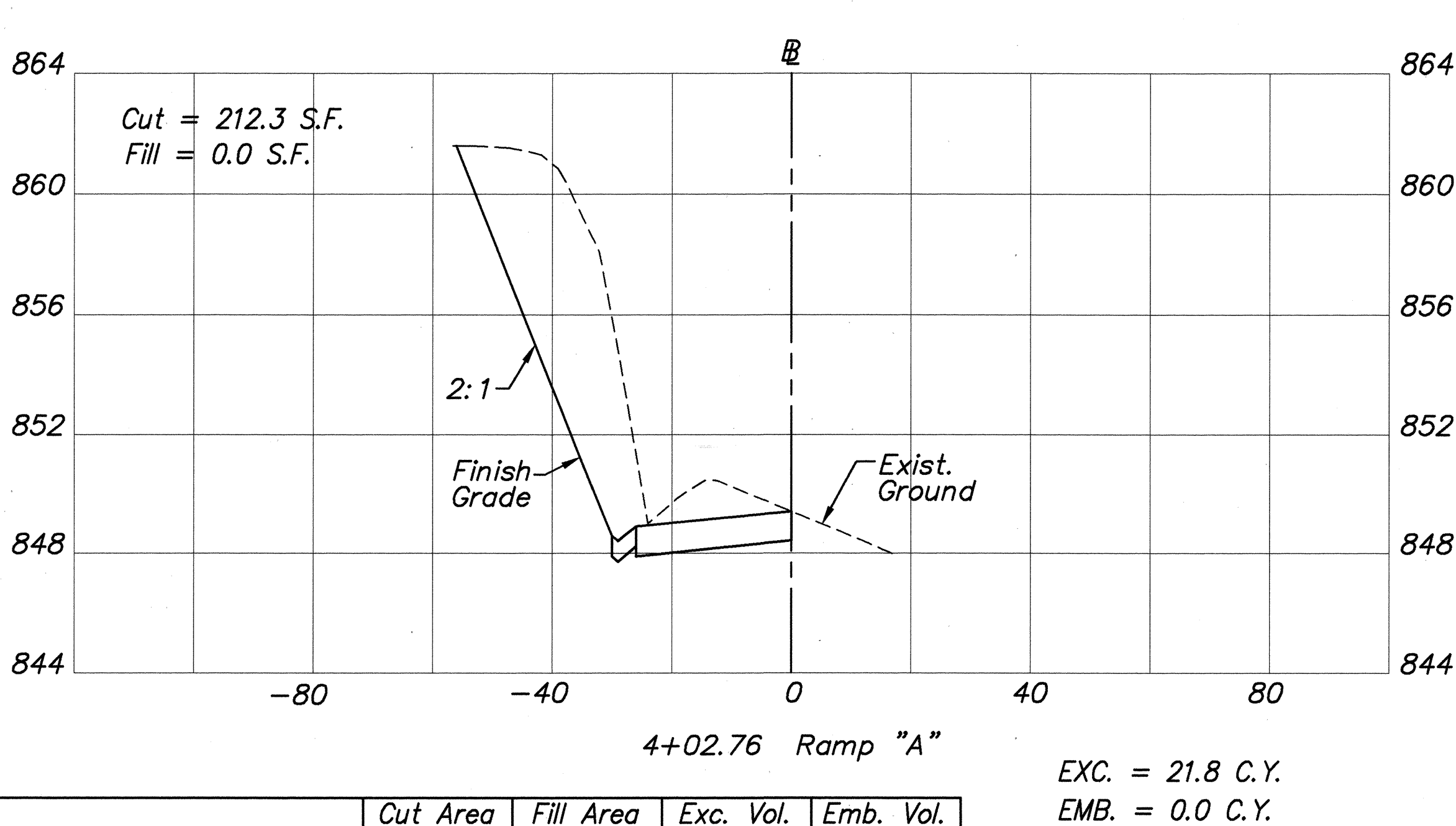
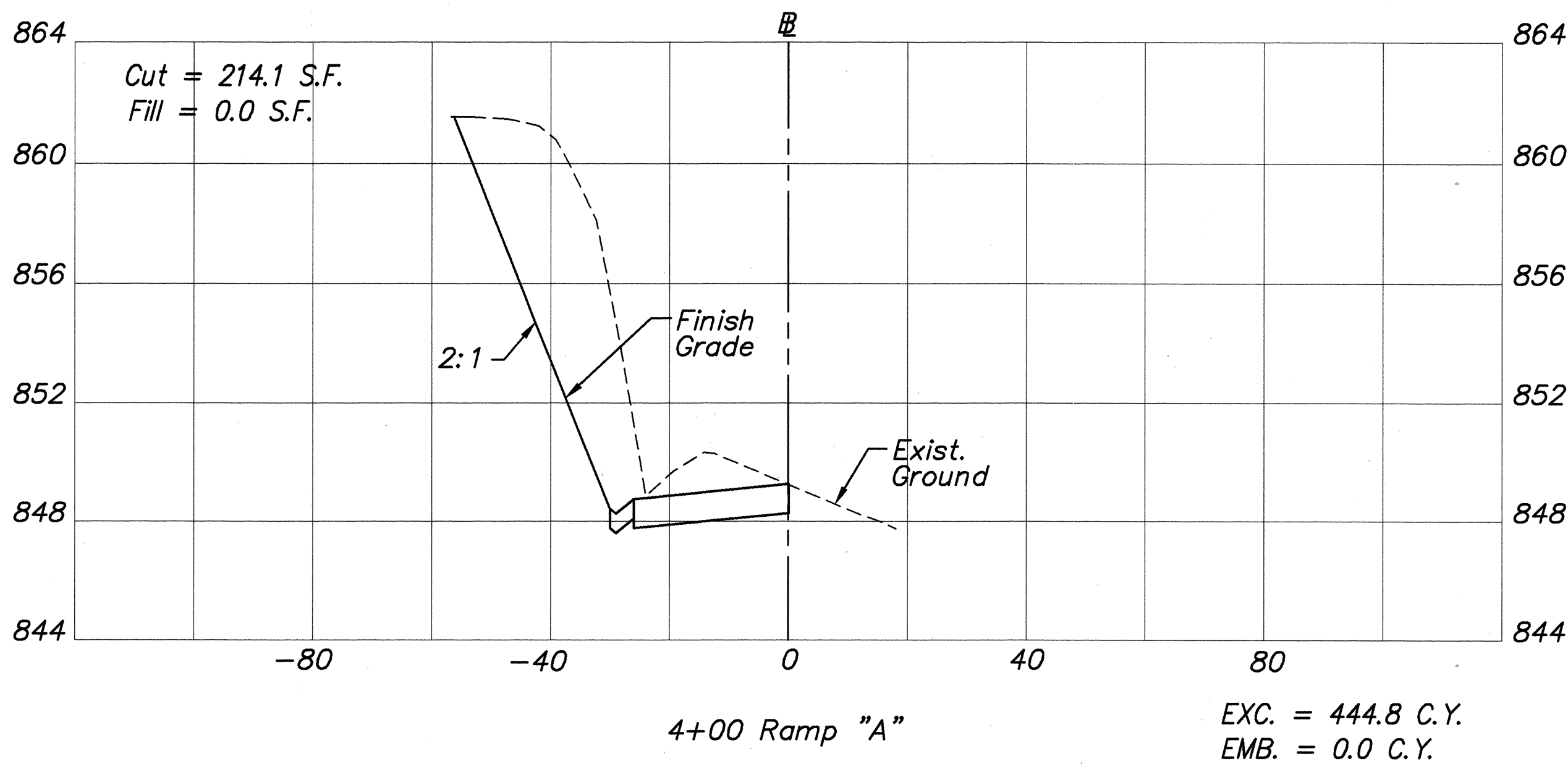
DATE
REVISION

THIS WORK WAS PREPARED
BY ME OR UNDER MY
SUPERVISION

SURVEY PLATTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
No.	

FILE: DOT95226
SCALE: 1"=20'
BEG: 07/30/97
PM: STY
OPER: *BKM,KKF,RGQ,CKY,MSM
REVISED: 06/02/99

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	22	71



Wilikina Drive	Cut Area (S.F.)	Fill Area (S.F.)	Exc. Vol. (C.Y.)	Emb. Vol. (C.Y.)
B 21+14.54	0.0	0.0	0.0	0.0
B 21+38.32	7.0	3.7	3.1	1.6
B 21+88.32 = C 0+00	10.5	3.0	16.1	6.2
C 0+50	18.4	0.0	26.8	2.8
C 1+00	18.3	0.0	34.0	0.0
C 1+50	9.7	0.0	26.0	0.0
C 2+00	8.4	0.0	16.8	0.0
C 2+50	33.3	0.0	38.6	0.0
C 3+00	25.3	0.0	54.2	0.0
C 3+50	25.3	3.1	46.9	0.4
C 4+00	20.7	2.4	42.6	2.6
C 4+50	26.6	1.0	43.8	3.1
C 5+00	17.8	11.3	41.1	11.4
C 5+50	20.5	0.2	35.5	10.6
C 6+00	17.2	54.3	34.9	50.4
C 6+50	16.9	2.4	31.5	52.5
C 7+00	23.3	0.9	37.2	3.1
C 7+50	17.9	0.9	38.1	1.7
C 8+00	22.4	0.0	37.3	0.8
C 8+50	20.7	0.0	39.9	0.0
C 9+00	15.3	0.4	33.3	0.4
C 9+35.36 = B 31+22.66	13.3	0.1	18.7	0.3
B 31+32.66	0.0	0.0	2.5	0.0
Sub-Total	388.8	83.7	698.9	147.9
Ramp "A"				
B 0+00	79.0	0.3	0.0	0.0
B 0+50	2.9	1,193.6	75.8	1,105.5
B 1+00	1.9	1,524.6	4.5	2,516.8
B 1+50	12.7	531.5	13.6	1,903.8
B 2+00	99.5	7.1	103.9	498.7
B 2+50	441.2	0.0	500.6	6.5
B 3+00	286.3	0.0	673.6	0.0
B 3+50	266.3	0.0	511.7	0.0
B 4+00	214.1	0.0	444.8	0.0
B 4+02.76	212.3	0.0	21.8	0.0
Sub-Total	1,616.2	3,257.1	2,350.3	6,031.3
Total	2,005.0	3,340.8	3,049.2	6,179.2

APPROVED:

M. F. Fagan 7/6/99
Chief, Civil Engineering Branch, D.P.P. *sd* Date

DATE REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROAD CROSS-SECTIONS
B RAMP "A" 3+00 TO 4+02.76
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 6 OF 6 SHEETS

20 0 20 40
HORIZ. SCALE: 1" = 20'

4 0 4 8
VERT. SCALE: 1" = 4'

Barry K. Muranka
THIS WORK WAS PREPARED
BY ME OR UNDER MY
SUPERVISION