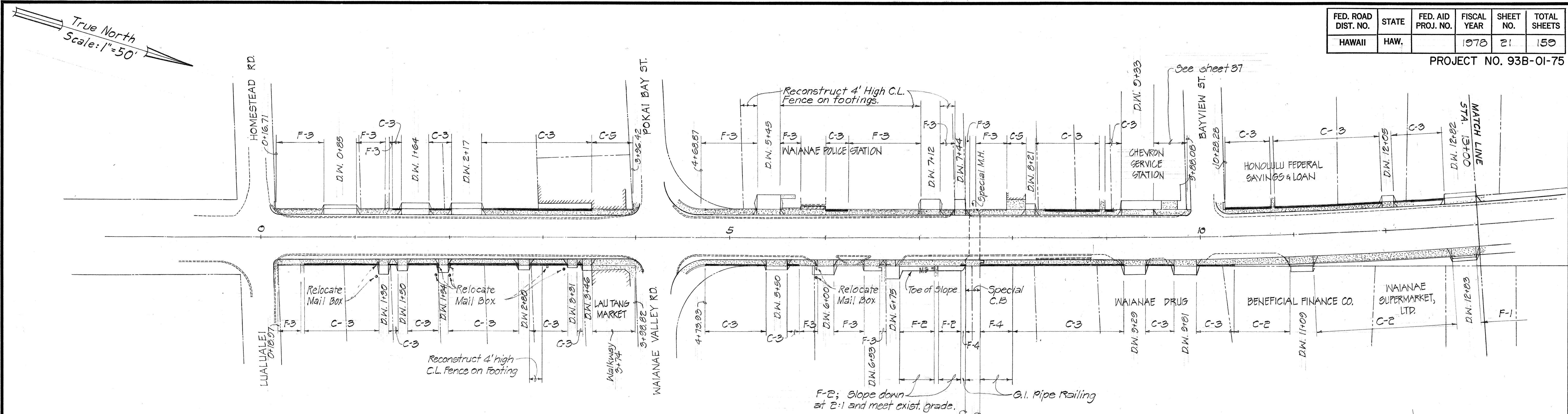
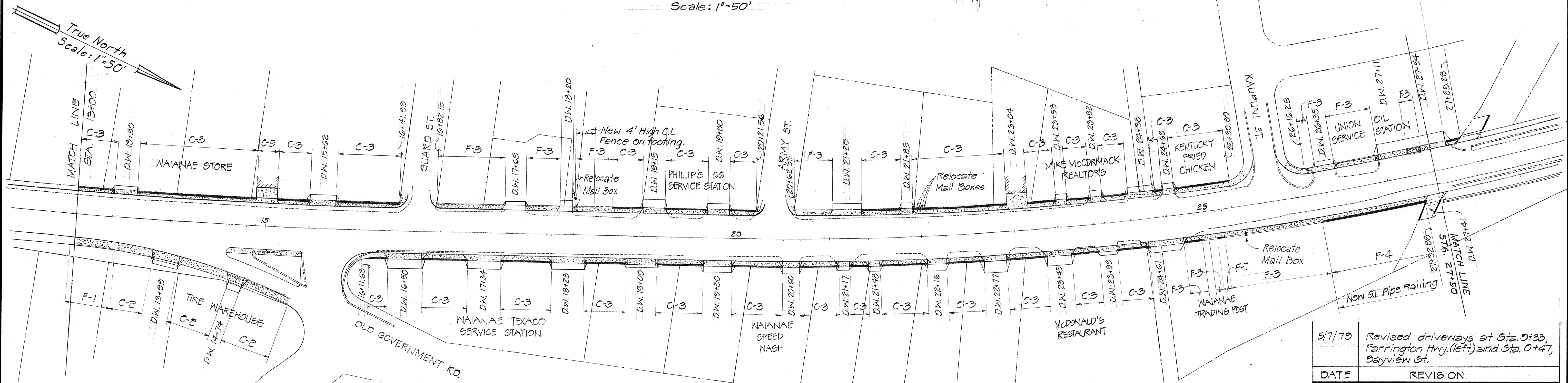


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	21	150

PROJECT NO. 93B-01-75

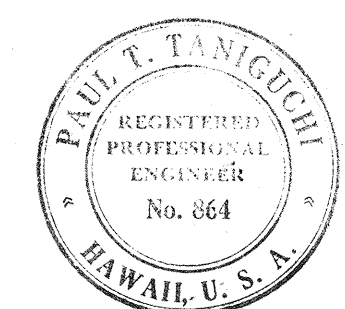


PLAN OF R/W ADJUSTMENTS
Scale: 1"=50'



PLAN OF R/W ADJUSTMENTS
Scale: 1"=50'

- NOTES:
1. See Sheets 23 to 29, incl. for profiles of R/W Adjustments.
 2. See Sheet 31 for Types of R/W Adjustments.
 3. See Sheets 27 to 30, incl. for R/W Adjustment Quantities.
 4. See Sheets 33 to 40, incl. for Driveway, Walkway & Ramp Details.
 5. See Sheet 32 for mailbox & pipe railing details.
 6. See Sheet 70 for Class "A" Drain Pipe Bedding Detail.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

5/7/79 Revised driveways at Sts. 9+33, Farrington Hwy. (left) and Sts. 0+47, Bayview St.

DATE	REVISION
5/7/79	Revised driveways at Sts. 9+33, Farrington Hwy. (left) and Sts. 0+47, Bayview St.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=50' DATE:

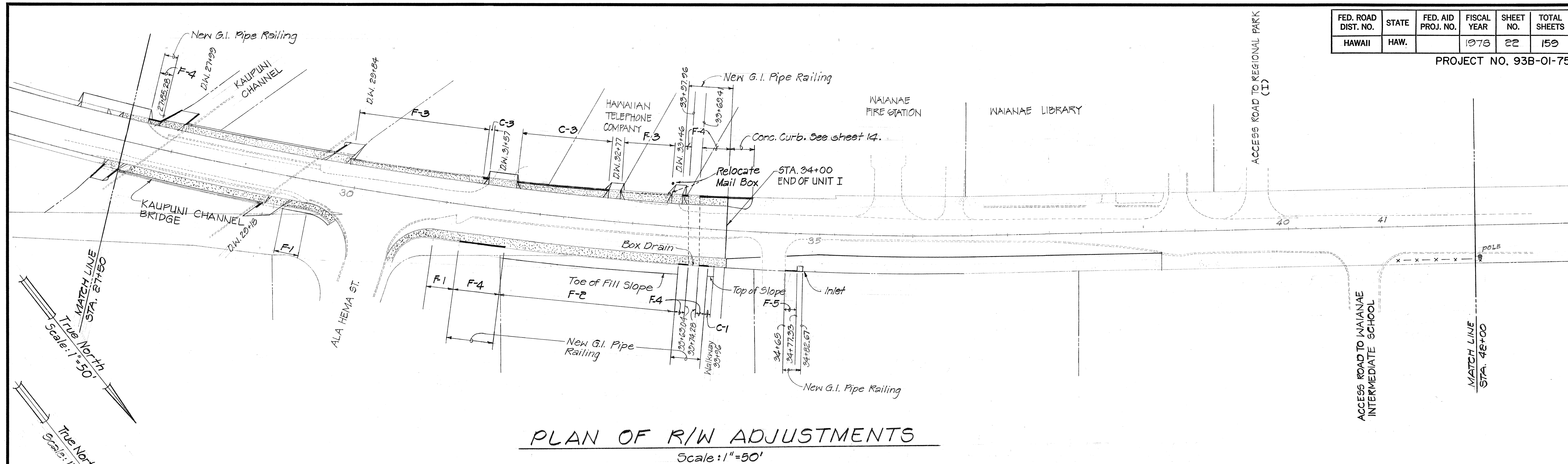
SHEET NO. 1 OF 20 SHEETS

ADD.21

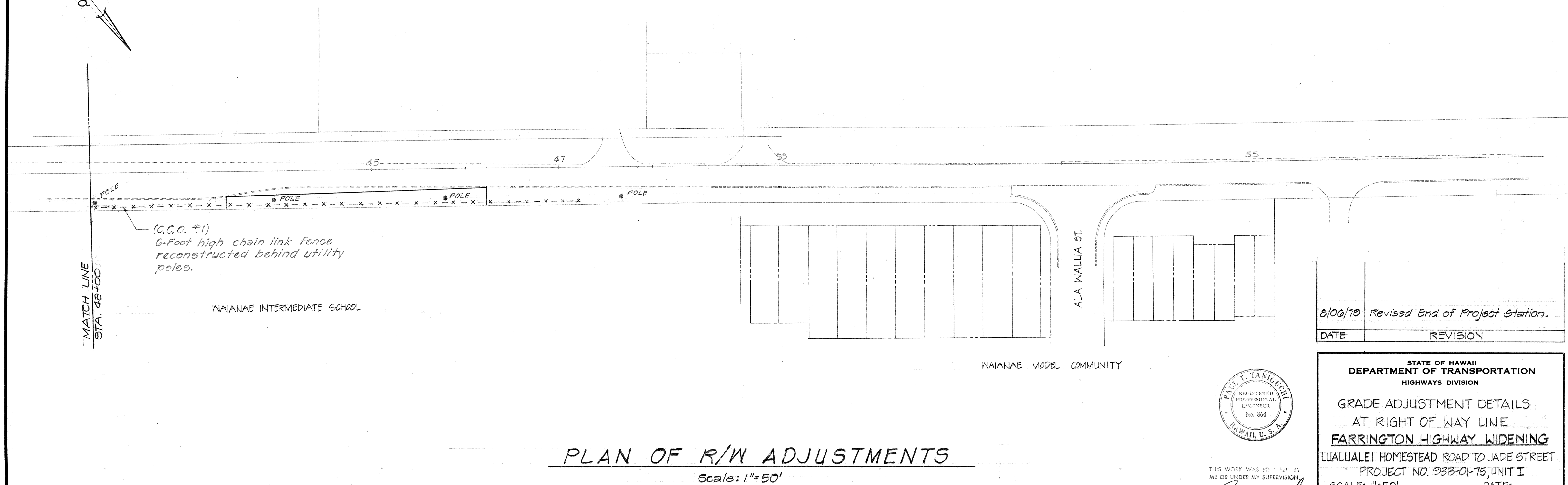
DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	22	159

PROJECT NO. 93B-01-75



PLAN OF R/W ADJUSTMENTS
Scale: 1"=50'



PLAN OF R/W ADJUSTMENTS
Scale: 1"=50'

8/06/79 Revised End of Project Station.

DATE	REVISION
------	----------



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=50' DATE:

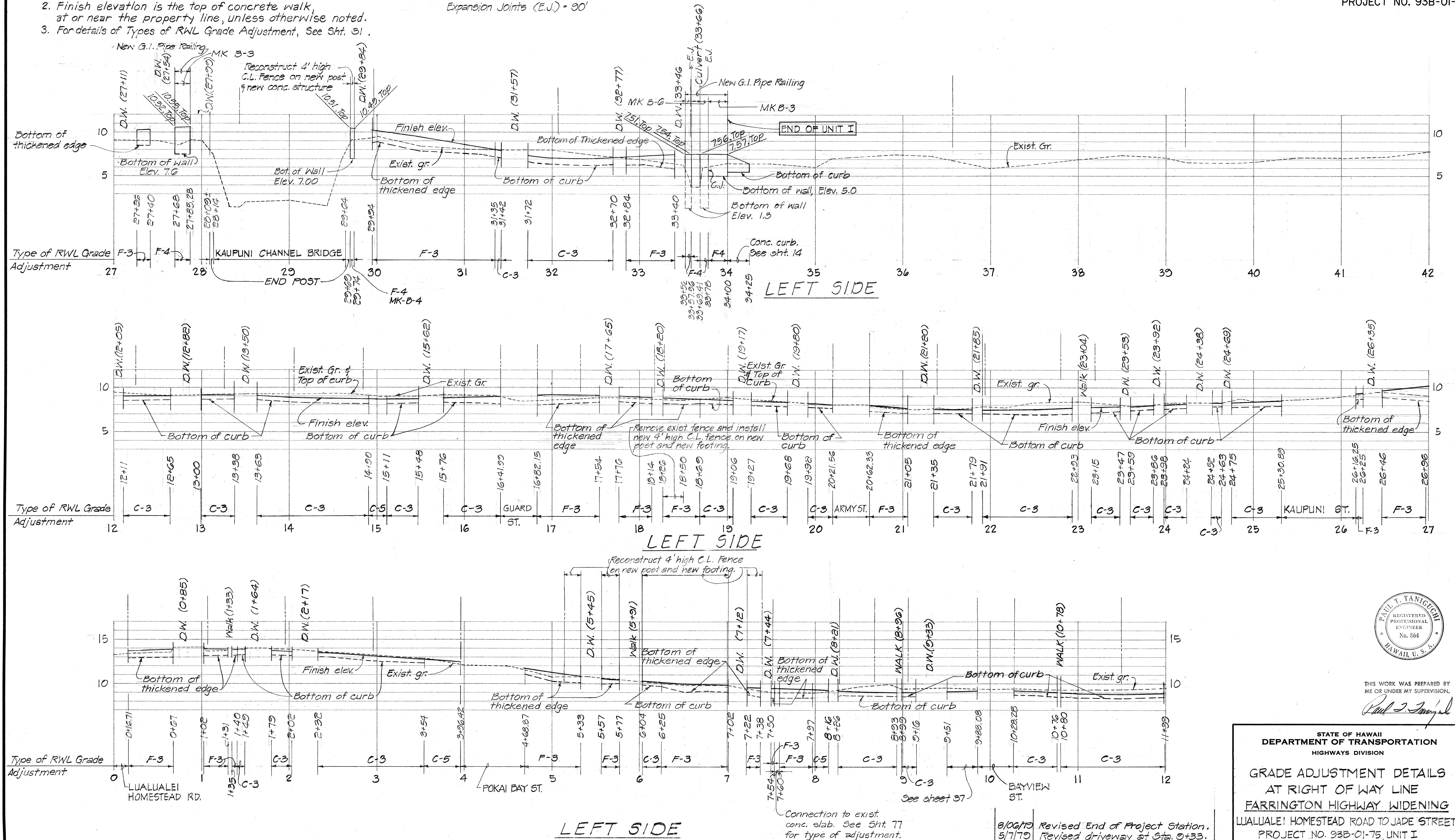
SHEET No. 22 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	23	159

PROJECT NO. 93B-01-75

Notes:

1. Existing grade is the top of the exist. ground or pavt., at or just outside of the right-of-way line, unless otherwise noted.
2. Finish elevation is the top of concrete walk, at or near the property line, unless otherwise noted.
3. For details of Types of RWL Grade Adjustment, See Sht. 31.
4. Control joints and expansion joints shall be provided in walls where shown. Maximum spacings:
Control Joints (C.J.) = 30'
Expansion Joints (E.J.) = 30'



Note: See sheet 31 for details of types of Right of Way Adjustments.

8/06/79 Revised End of Project Station.
5/7/79 Revised driveway at Sta. 0+33.

DATE	REVISION
------	----------

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
LUUALUE! HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: HORIZ.: 1" = 50'
VERT.: 1" = 10' DATE:

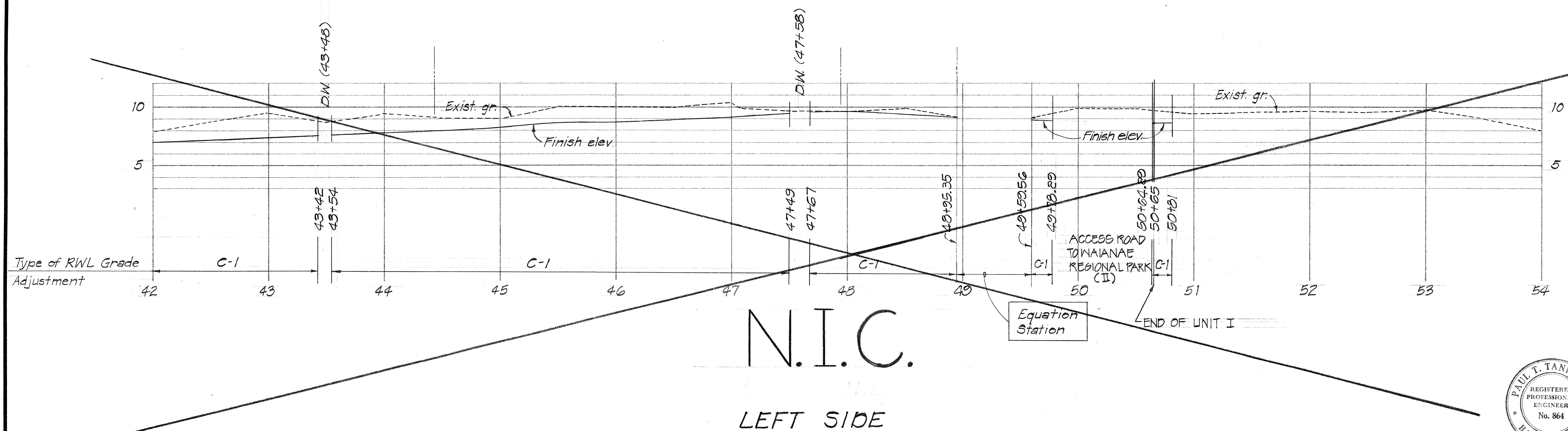
SHEET NO. 3 OF 20 SHEETS

00 ADD 07

C.O. ADD. 23

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	24	159

PROJECT NO. 93B-01-75



Note: See sheet 31 for details of types of Right of Way Adjustments.

8/06/79 Revised End of Project Station.
DATE REVISION



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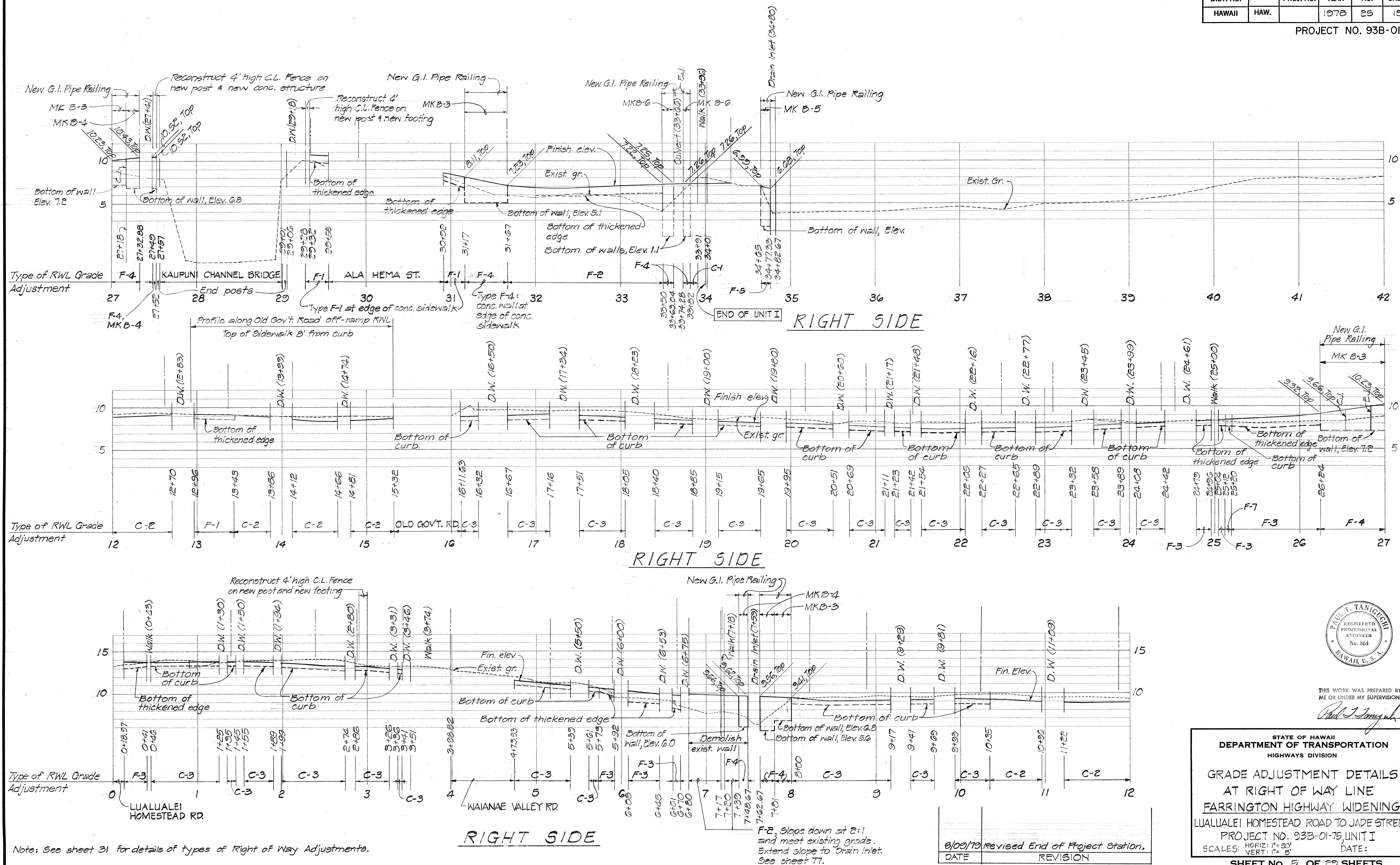
Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALES: HORIZ: 1" = 50' VERT: 1" = 5' DATE:
SHEET No. 4 OF 20 SHEETS

C.O.24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	25	159

PROJECT NO. 93B-01-75



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Paul J. Songalia

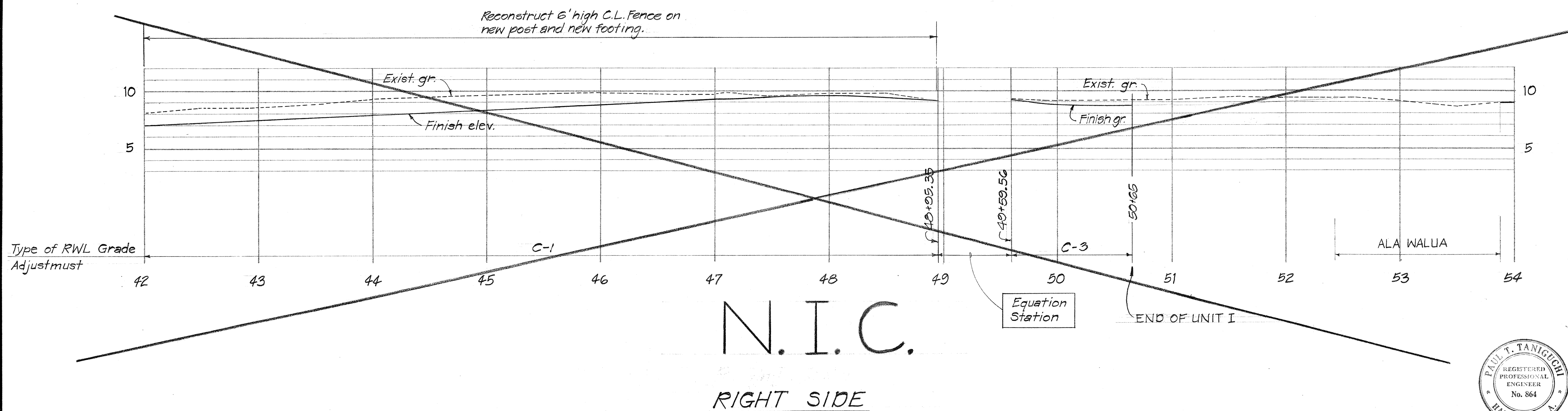
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75 UNIT I
SCALE: HORIZ: 1"=30'
VERT: 1"=5' DATE:

SHEET NO. 5 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	26	153

PROJECT NO. 93B-01-75



Type of RWL Grade
Adjustment

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

Note: See sheet 31 for details of types of Right of Way Adjustments.

8/06/79	Revised End of Project Station.
DATE	REVISION



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ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GRADE ADJUSTMENT DETAILS AT RIGHT OF WAY LINE FARRINGTON HIGHWAY WIDENING LUALUALEI HOMESTEAD ROAD TO JADE STREET PROJECT NO. 93B-01-75, UNIT I
SCALES: HORIZ: 1" = 50' VERT: 1" = 5'
DATE:
SHEET NO. 6 OF 29 SHEETS

C.O.26

R/W ADJUSTMENT QUANTITIES

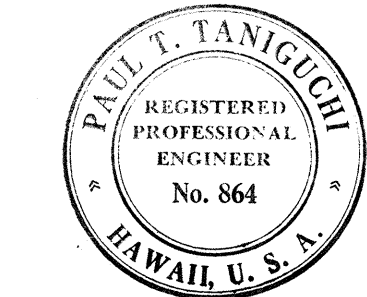
PROJECT NO. 93B-01-75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	27	150

STATION	STATION	DISTANCE	SECTION TYPE	CLASS "A" CONCRETE (CU.YD.)	REINFORCING STEEL (LBS.)	WIDTH OF GRASS (FT.)	AREA OF GRASS (FT. ²)	TOPSOIL (CU.YD.)	RELOCATE TREES	RELOCATE MAILBOXES	CHAIN LINK FENCE (NEW (N) OR RECONSTRUCTED (R) IN "L.F.")	RAILING (L.F.)	FILTER MATERIAL (CU.YD.)	STRUCTURAL EXCAVATION (CU.YD.)	STRUCTURAL BACKFILL (CU.YD.)	EXCAVATION (CU.YD.)	
LEFT SIDE																	
0+16.71	0+07	50.29	F-3	1.4	38									0.4			
1+02	1+31	29	F-3	0.8	22									0.2			
1+35	1+40	5	F-3	0.1	4									0.1			
1+40	1+49	9	C-3	0.3	12									0.3			
1+79	2+02	23	C-3	0.9	31									0.9			
2+32	3+54	122	C-3	4.5	163									4.6			
3+54	3+96.42	42.42	C-5	0.4										0.4			
4+68.87	5+33	64.13	F-3	1.7	48						15' @ 4' on Ftg.(R)			0.5			
5+57	5+77	20	F-3	0.5	15						20' @ 4' on Ftg.(R)			0.2			
6+04	6+25	21	C-3	0.8	28						21' @ 4' on Ftg.(R)			0.8			
6+25	7+02	77	F-3	2.1	58						77' @ 4' on Ftg.(R)			0.6			
7+22	7+38	16	F-3	0.4	12						16' @ 4' on Ftg.(R)			0.1			
7+50	7+54	4	F-3	0.1	3									0.1			
7+54	7+60	6	CONN. TO EXIST. CONC. SLAB														
7+60	7+97	37		1.0	28									0.3			
7+97	8+16	19	C-5	2.1										2.1			
8+26	8+93	67	C-3	2.5	90									2.5			
8+99	9+16	17	C-3	0.6	28									0.6			
10+28.28	10+76	47.72	C-3	1.8	64									1.8			
10+80	11+09	119	C-3	4.4	159									4.4			
12+11	12+65	54	C-3	2.0	72									2.0			
13+00	13+38	38	C-3	1.4	51									1.4			
13+63	14+90	127	C-3	4.7	170									4.7			
14+90	15+11	21	C-5	2.8										2.8			
15+11	15+48	37	C-3	1.4	49									1.4			
15+76	16+41.99	65.99	C-3	2.4	88									2.4			
16+82.15	17+54	71.85	F-3	1.9	54									0.6			
17+76	18+14	38	F-3	1.0	29									0.3			
18+26	18+69	43	F-3	1.2	32					1	24' @ 4' on Ftg.(N)			0.3			
18+69	19+04	35	C-3	1.3	47									1.3			
19+27	19+68	41	C-3	1.5	59									1.5			
19+92	20+21.56	29.56	C-3	1.1	39									1.1			
20+62.33	21+05	42.67	F-3	1.2	32									0.3			
21+35	21+79	44	C-3	1.6	59									1.6			
											149' @ 4' on Ftg.(R)						
SHT. TOTAL				51.9	1,580					1	24' @ 4' on Ftg.(N)			42.6			

SURVEY PLOTTED BY _____ DATE _____
DRAWN BY _____
DESIGNED BY _____
NOTE BOOK _____
QUANTITIES BY _____
CHECKED BY _____
NO. _____

5/7/79	Revised quantities from Sta. 8+99 to Sta. 9+16. Deleted quantities from Sta. 9+10 to Sta. 9+88.00. Revised sheet total.
DATE	REVISION



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ME OR UNDER MY SUPERVISION.
Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIGHT OF WAY
ADJUSTMENT DETAILS

PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE
DATE: _____

SHEET NO. 7 OF 29 SHEETS

R/W ADJUSTMENT QUANTITIES

PROJECT NO. 93B-01-75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	28	159

STATION	STATION	DISTANCE	SECTION TYPE	CLASS "A" CONCRETE (CU.YD.)	REINFORCING STEEL (LBS.)	WIDTH OF GRASS (FT.)	AREA OF GRASS (FT. ²)	TOPSOIL (CU.YD.)	RELOCATE TREES	RELOCATE MAILBOXES	CHAIN LINK FENCE (NEW (N) OR RECONSTRUCTED (R) IN L.F.)	RAILING (L.F.)	FILTER MATERIAL (CU. YD.)	STRUCTURAL EXCAVATION (CU. YD.)	STRUCTURAL BACKFILL (CU. YD.)	EXCAVATION (CU. YD.)
LEFT SIDE																
21+01	22+93	102	C-3	3.8	136					2				3.8		
23+15	23+47	32	C-3	1.2	43									1.2		
23+59	23+86	27	C-3	1.0	36									1.0		
23+98	24+24	26	C-3	1.0	35									1.0		
24+52	24+63	11	C-3	0.4	15									0.4		
24+75	25+30.89	55.89	C-3	2.1	75									2.1		
26+16.25	26+25	8.75	F-3	0.2	7									0.1		
26+46	26+96	50	F-3	1.4	38									0.4		
27+26	27+40	14	F-3	0.4	11									0.1		
27+68	27+85.28	17.28	F-4(MK-B-3)	2.0	149							18	0.6	2.5	1.0	
29+69	29+74	5	F-4(MK-B-4)	0.7	49								0.2	0.8	0.8	
29+94	31+35	141	F-3	3.8	106									1.1		
31+35	31+42	7	C-3	0.3	9									0.3		
31+72	32+70	98	C-3	3.6	131									3.6		
32+84	33+40	56	F-3	1.5	42					1				0.4		
33+52	33+57.96	5.96	F-4(MK-B-G)	1.3	98							12	0.2	1.1	2.9	
33+69.41	33+78	8.59	F-4(MK-B-G)	1.9	142							14	0.3	1.6	4.1	
33+78	34+00	22	F-4(MK-B-3)	2.6	190							22	0.8	3.2	1.3	
SHT. TOTAL				29.2	1,312					3		66	2.1	24.7	10.1	

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

8/06/79	Revised End of Project Station.
DATE	REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIGHT OF WAY ADJUSTMENT DETAILS

PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE DATE:

SHEET No. 8 OF 29 SHEETS

C.O. 28

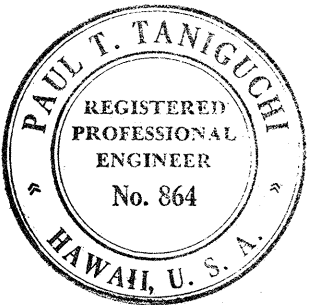
R/W ADJUSTMENT QUANTITIES

PROJECT NO. 93B-01-75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	29	159

STATION	STATION	DISTANCE (FT.)	SECTION TYPE	CLASS "A" CONCRETE (CU. YD.)	REINFORCING STEEL (LBS.)	WIDTH OF GRASS (FT.)	AREA OF GRASS (FT. ²)	TOP SOIL (CU. YD.)	RELOCATE TREES	RELOCATE MAILBOXES	CHAIN LINK FENCE (NEW (N) OR RECONSTRUCTED (R) IN L.F.)	RAILING (L.F.)	FILTER MATERIAL (CU. YD.)	STRUCTURAL EXCAVATION (CU. YD.)	STRUCTURAL BACKFILL (CU. YD.)	EXCAVATION (CU. YD.)	
RIGHT SIDE																	
0+18.97	0+41	22.03	F-3	0.6	17									0.2			
0+46	1+25	79	C-3	2.0	106					1				2.0			
1+25	1+35	10	C-3	0.4	13									0.4			
1+55	1+80	34	C-3	1.3	45					1				1.3			
1+99	2+74	75	C-3	2.8	100					1				2.8			
2+86	3+26	40	C-3	1.5	53					1	12' @ 4' on Ftg. (R)			1.5			
3+36	3+41	5	C-3	0.2	7									0.2			
4+73.93	5+39	65.07	C-3	2.4	87									2.4			
5+61	5+73	12	C-3	0.4	16									0.4			
5+73	5+92	19	F-3	0.5	14					1				0.2			
6+08	6+45	37	F-3	1.0	28									0.3			
6+61	6+70	9	F-3	0.2	7									0.1			
6+80	7+17	37	F-2	0.3		4	148	1.8						0.3			
7+20	7+39	19	F-2	0.2		4	76	0.9						0.2			
7+39	7+48.67	9.67	F-4(MKB-4)	1.4	96	4	39	0.5				10	0.4	1.5	1.5		
7+62.67	7+81	18.33	F-4(MKB-4)	2.7	181							10	0.7	2.8	2.8		
7+81	8+00	19	F-4(MKB-3)	2.2	164							10	0.7	2.7	1.1		
8+00	9+17	117	C-3	4.3	156									4.3			
9+41	9+69	28	C-3	1.0	37									1.0			
9+93	10+35	42	C-3	1.6	59									1.6			
10+35	10+96	61	C-2			2	122	1.5									
11+22	12+70	148	C-2			7	1036	12.8									
12+96	13+43	47	F-1	0.4		12	564	7.0						0.4			
13+43	13+86	43	C-2			12	516	6.4									
14+12	14+66	54	C-2			6	324	4.0									
14+81	15+32	51	C-2			2	102	1.3									
15+32	16+32	20.37	C-3	0.8	27									0.8			
16+67	17+16	49	C-3	1.8	65									1.8			
17+51	18+05	54	C-3	2.0	72									2.0			
18+40	18+85	45	C-3	1.7	60									1.7			
19+15	19+65	50	C-3	1.9	67									1.9			
19+95	20+51	56	C-3	2.1	75									2.1			
20+69	21+11	42	C-3	1.6	56									1.6			
SHT. TOTAL				40.2	1,605		2,927	36.2		5	12' @ 4' on Ftg. (R)	48	1.8	39.4	5.4		

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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIGHT OF WAY
ADJUSTMENT DETAILS

PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE
DATE:

SHEET NO. 9 OF 29 SHEETS

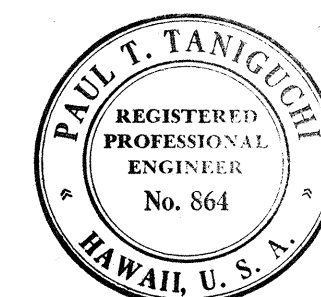
PROJECT NO. 93B-01-75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	30	159

STATION	STATION	DISTANCE	SECTION TYPE	CLASS "A" CONCRETE (CU.YD.)	REINFORCING STEEL (LBS.)	WIDTH OF GRASS (FT.)	AREA OF GRASS (FT. ²)	TOPSOIL (CU.YD.)	RELOCATE TREES	RELOCATE MAILBOXES	CHAIN LINK FENCE (NEW (N) OR RECONSTRUCTED (R) IN L.F.)	RAILING (L.F.)	FILTER MATERIAL (CU.YD.)	STRUCTURAL EXCAVATION (CU.YD.)	STRUCTURAL BACKFILL (CU.YD.)	EXCAVATION (CU.YD.)	
RIGHT SIDE																	
21+23	21+42	19	C-3	0.7	25									0.7			
21+54	22+05	51	C-3	1.9	68									1.9			
22+27	22+65	38	C-3	1.4	51									1.4			
22+89	23+32	43	C-3	1.6	57									1.6			
23+58	23+89	31	C-3	1.1	41									1.1			
24+08	24+42	34	C-3	1.3	45									1.3			
24+79	24+96	17	F-3	0.5	13									0.1			
25+04	25+12	8	F-3	0.2	6									0.1			
25+12	25+20	8	F-7	0.3										0.3			
25+20	26+24	104	F-3	2.8	78					1				0.8			
26+24	27+18	94	F-4 (MK-B-3)	11.1	813							94	3.5	13.4	5.6		
27+18	27+32.88	14.88	F-4 (MK-B-4)	2.2	147							15	0.6	2.3	2.2		
27+49	27+52	3	F-4 (MK-B-4)	0.4	30						3'@ 4' on Str. (R)		0.1	0.5	0.5		
29+28	29+55	27	F-1	0.2		2	54	0.7						0.2			
30+92	31+17	25	F-1	0.2		16	400	4.9						0.2			
31+17	31+67	50	F-4 (MK-B-3)	5.9	433							50	1.9	7.2	3.0		
31+67	33+50	183	F-2	1.5		10	1,830	22.6						1.5		22.6	
33+50	33+63.04	13.04	F-4 (MK-B-6)	2.9	215							19	0.5	2.5	6.2		
33+74.28	33+82.67	7.72	F-4 (MK-B-6)	1.7	128							13	0.3	1.5	3.7		
33+82	33+91	9	C-1			10	90	1.1								1.1	
SHT. TOTAL				37.0	2,150		2,374	29.3		1	3'@ 4' on Str. (R)	191	6.9	38.6	21.2	23.7	

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
NO. _____	CHECKED BY _____	_____

8/06/79	Revised End of Project Station.
DATE	REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Paul J. Tanguel

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIGHT OF WAY ADJUSTMENT DETAILS

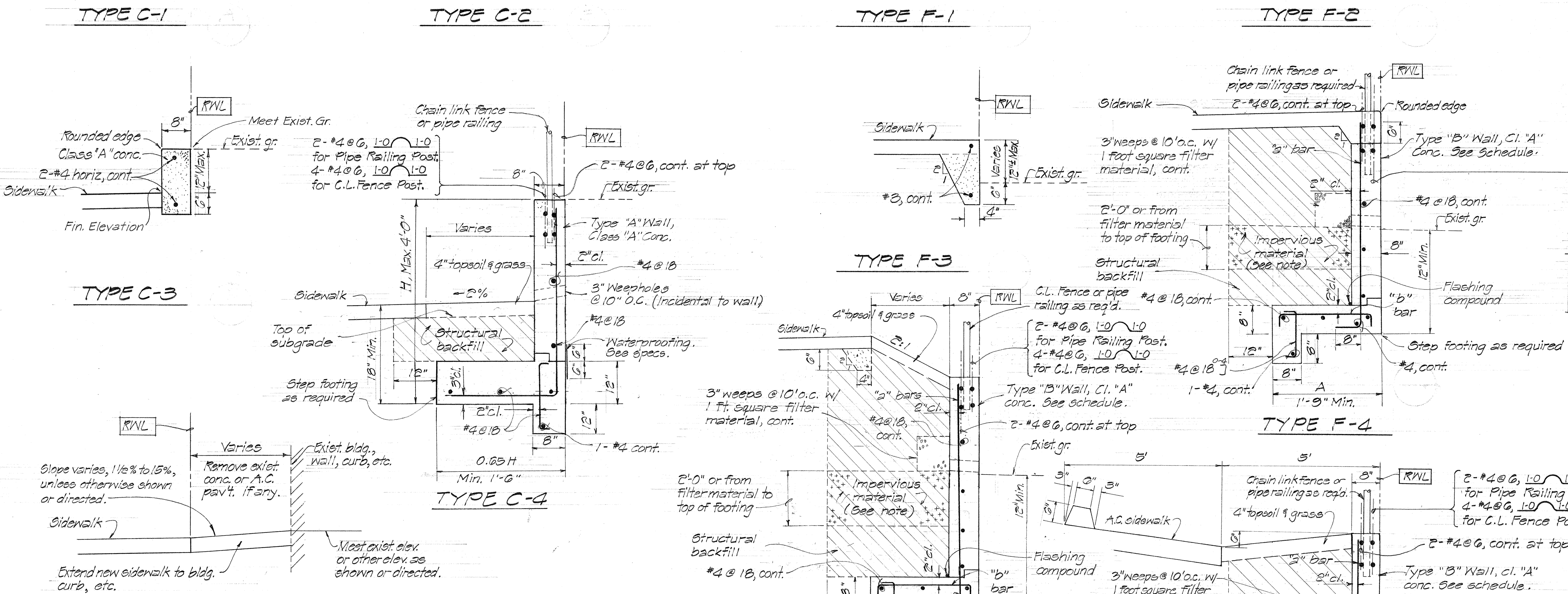
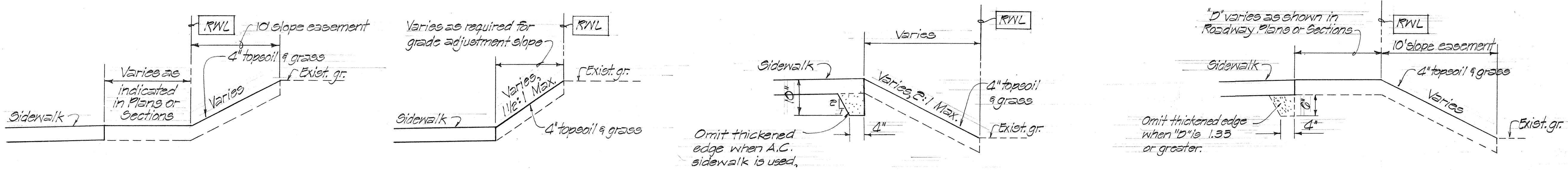
PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE DATE:

SHEET No. 10 OF 29 SHEETS

C.O. 30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	31	159

PROJECT NO. 93B-01-75



TYPE "B" WALL SCHEDULE					
MK	B-3	B-4	B-5	B-6	
"a" bars	#4@18	#4@18	#4@18	#4@18	
"b" bars	#4@18	#4@18	#4@18	#4@10	
A	1'-0"	2'-0"	2'-6"	3'-0"	

Note: The subgrade upon which filter material is to be placed shall be made as impervious as possible by pneumatic tamping or other approved methods.

All concrete shall be Class "A".

Reinforcing steel shall be ASTM A615, Grade 40.

The following shall be incidental to the various contract items:

1. Flashing compound
2. Weep holes
3. Waterproofing
4. Impervious material

All exposed corners shall be rounded.

See Sheet 47 for wall expansion joint detail.

See Sheet 116 for wall control joint detail.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADE ADJUSTMENT DETAILS
AT RIGHT OF WAY LINE
FARRINGTON HIGHWAY WIDENING
WALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE
DATE:

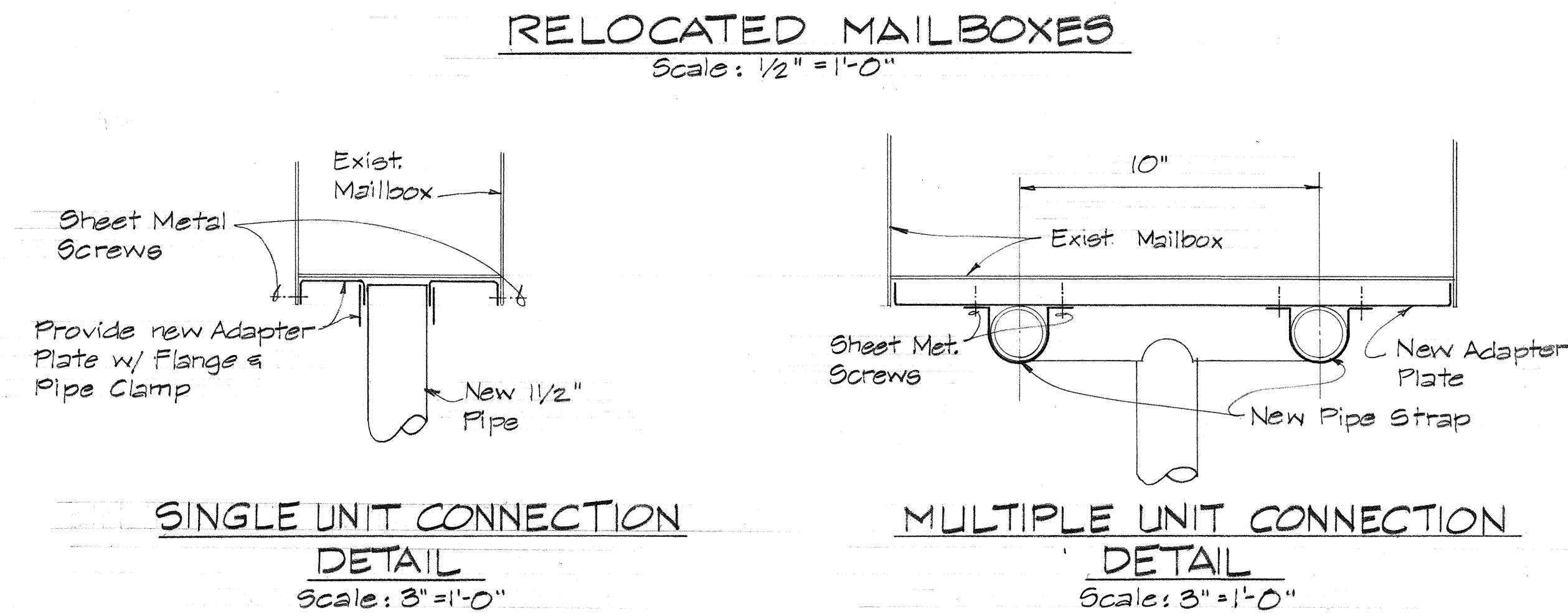
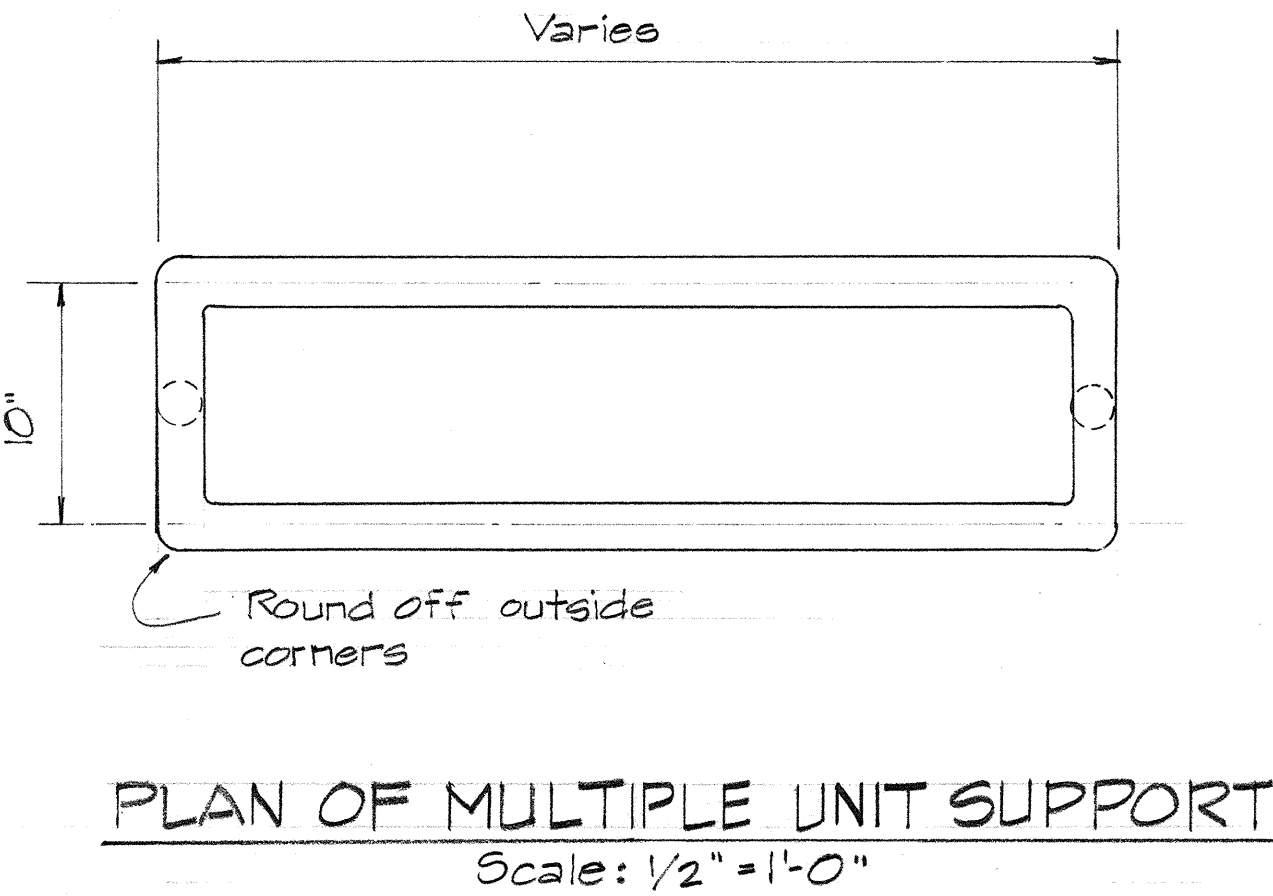
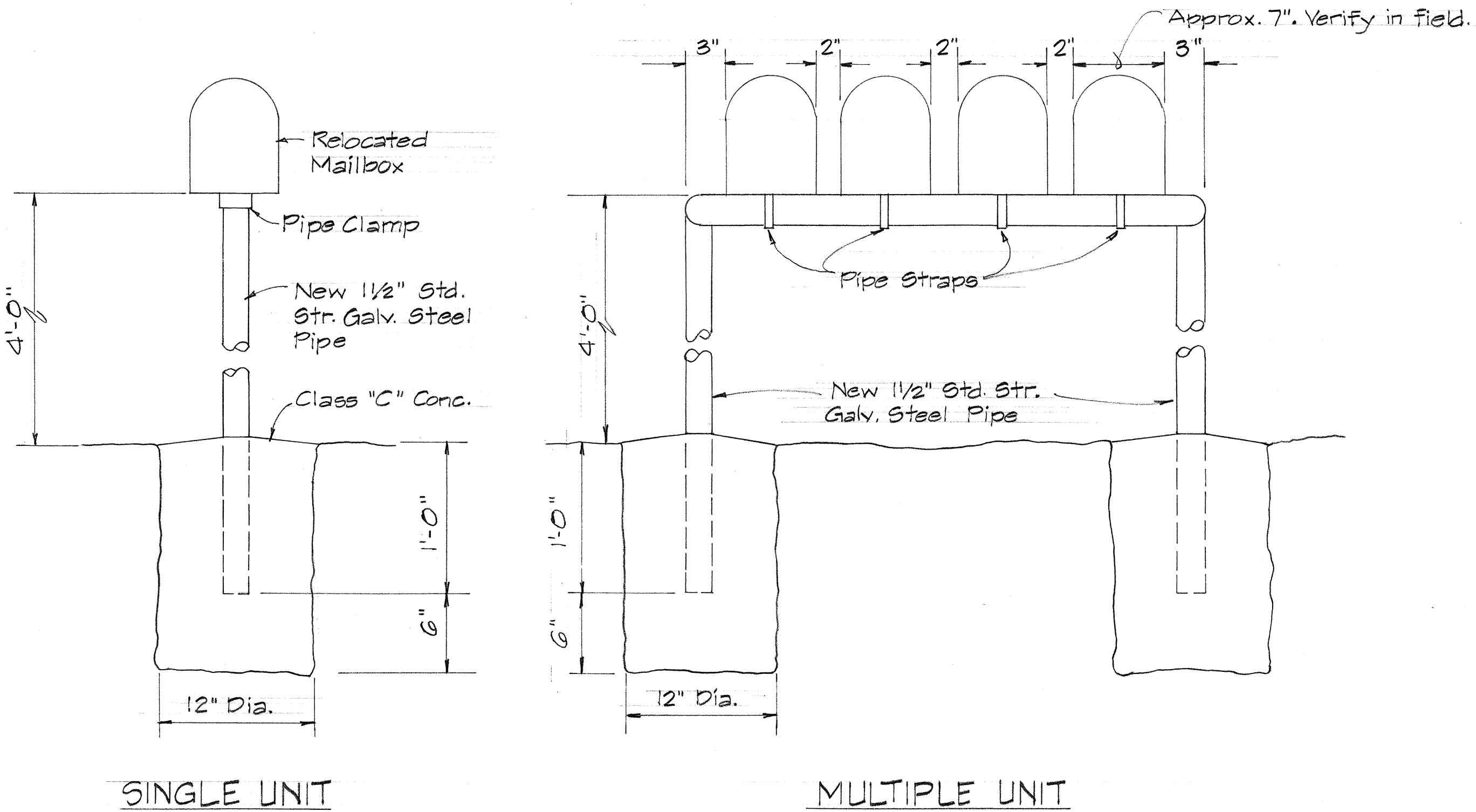
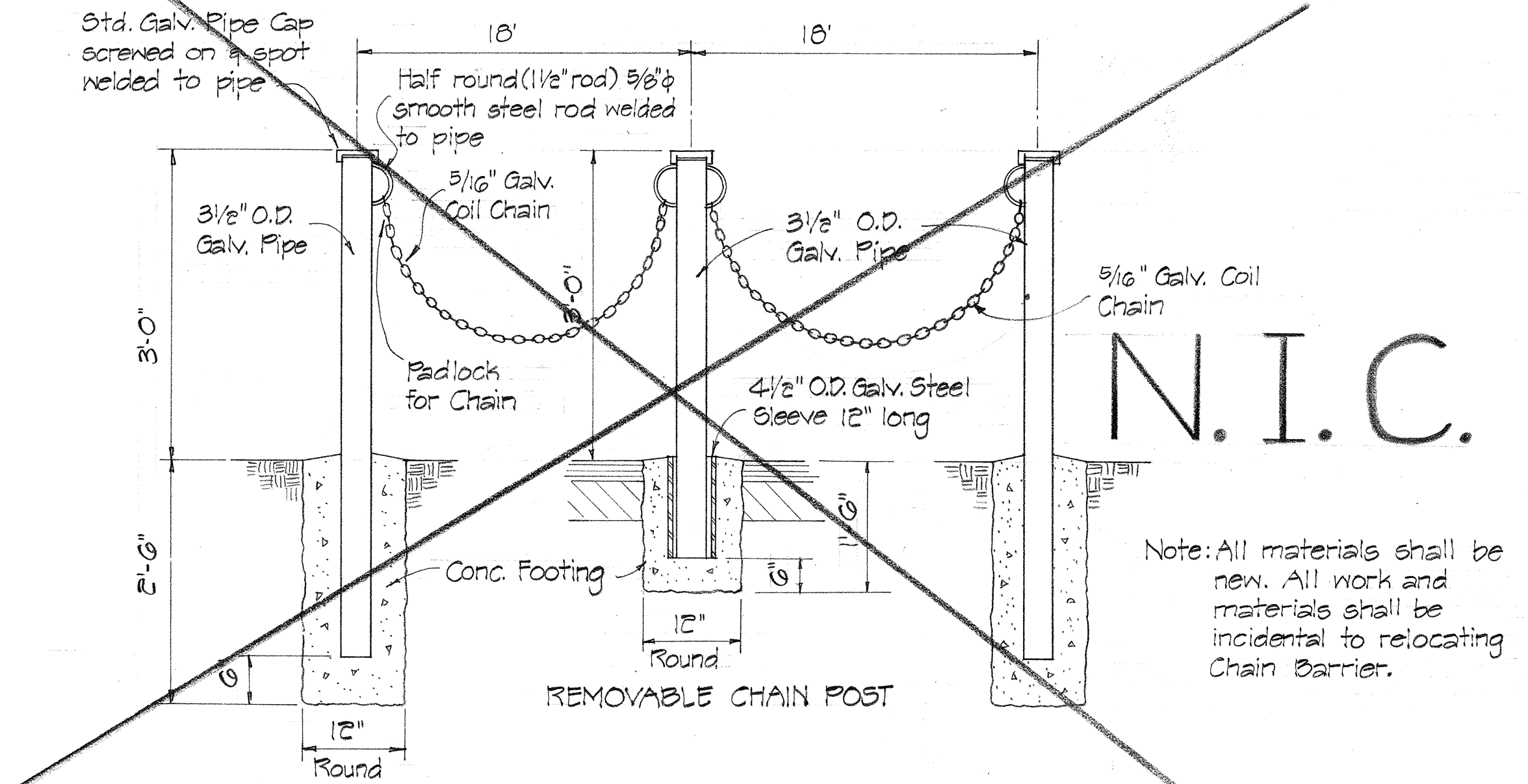
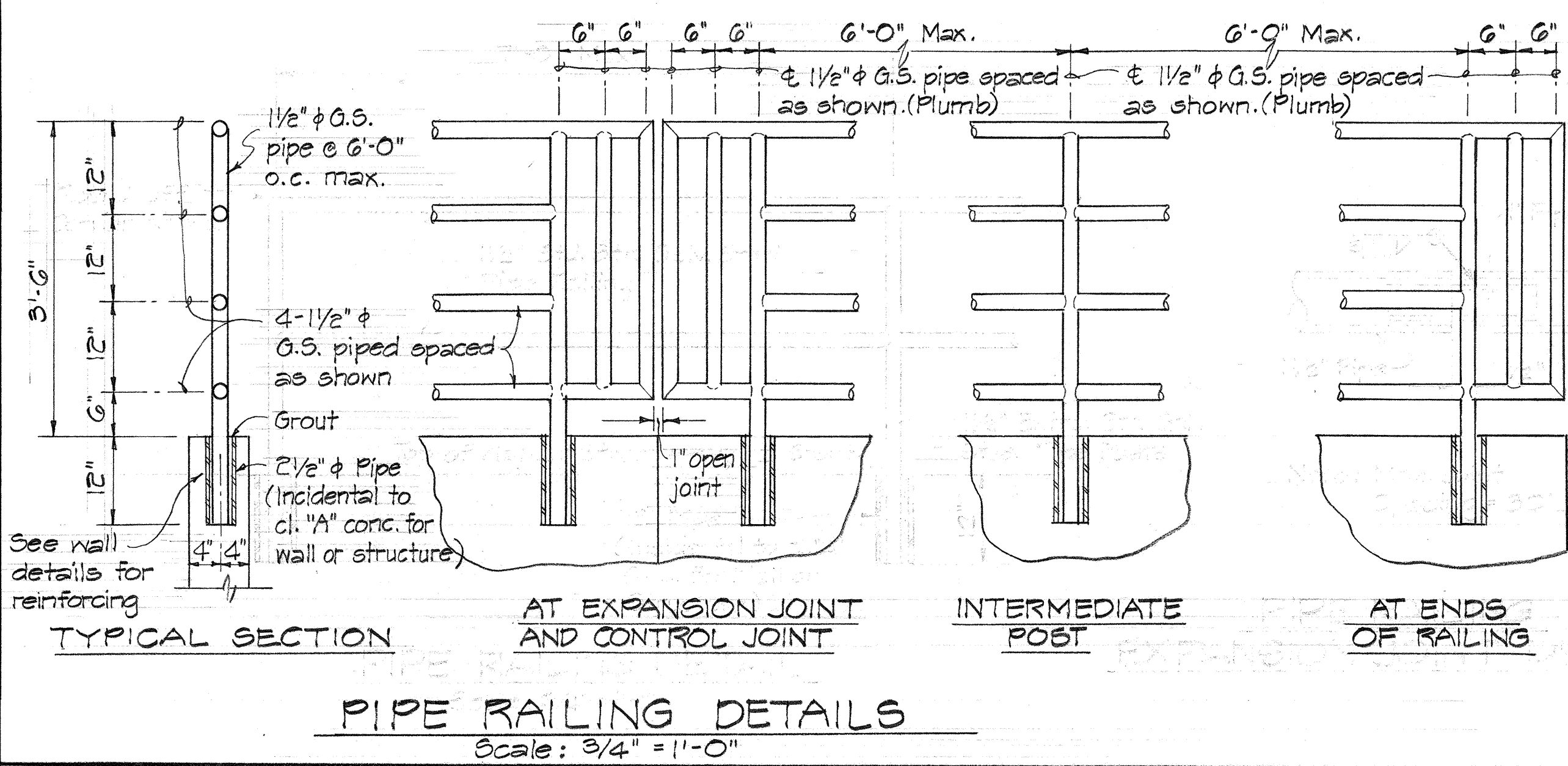
SHEET NO. 11 OF 29 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	32	159

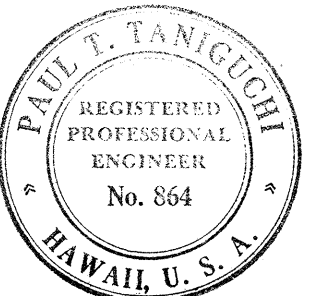
PROJECT NO. 93B-01-75

- Notes:
1. Cut and shape pipe for neat fit and full welded. All welding shall conform to the latest specifications for welding Highway and Railway Bridges Design Construction and Repair of the American Welding Society. Welds on pipes shall be ground smooth. Galvanize after fabrication.
 2. Pipe shall conform to A.S.T.M. A-53.
 3. Damaged coatings shall be cleaned and painted over with primer and 2-coats of paint to match.



- Notes:
1. All work and materials shown shall be incidental to relocated mailbox or boxes.
 2. Pipe shall conform to A.S.T.M. A-120.
 3. Damaged coatings shall be cleaned and painted over with primer and 2-coats of paint to match.

8/06/79 Deleted Chain Barrier Detail.
DATE REVISION



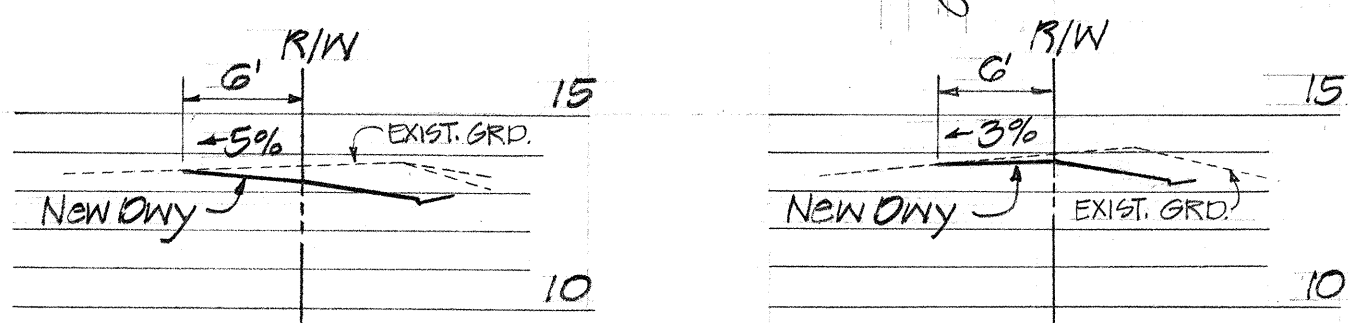
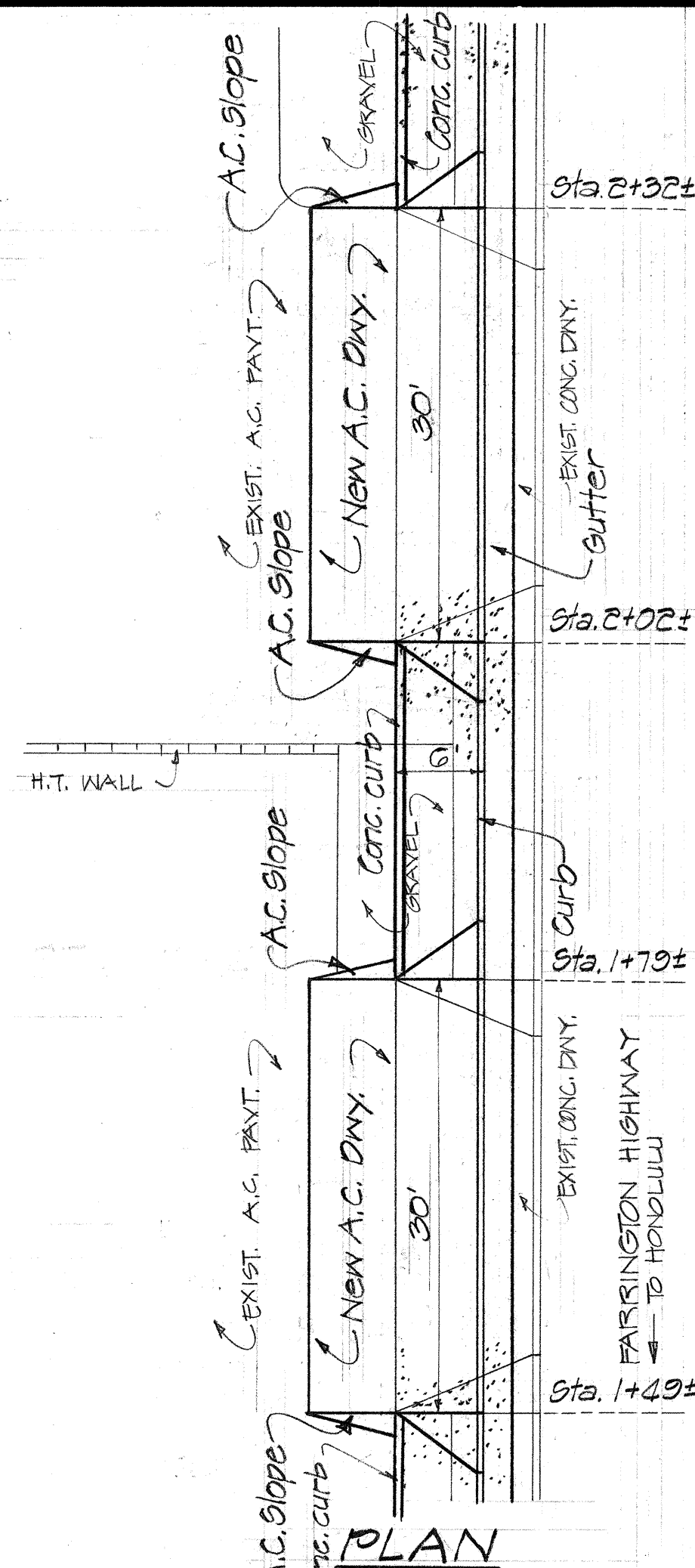
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Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS DETAILS
FARRINGTON HIGHWAY SIDING
LA OLA DRIVE 2' MAX. D. ADJ. SLOPE
PROJECT NO. 93B-01-15, UNIT I
SCALE: AS SHOWN DATE:
SHEET NO. 12 OF 29 SHEETS

C.O.32

ESTIMATED QUANTITIES

A.C. Mix No. V = 5.0 Tons
Aggregate Base = 4.5 C.Y.
Excavation = 9 C.Y.

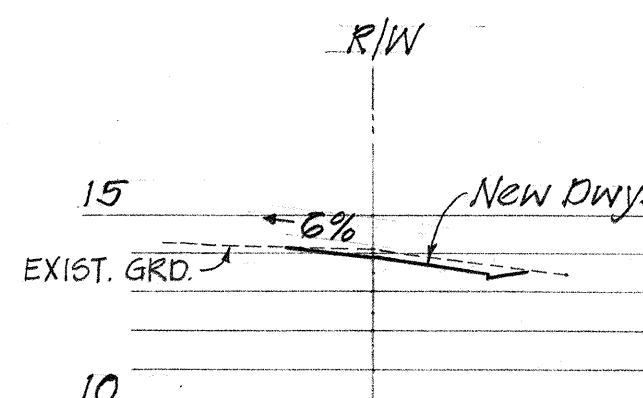
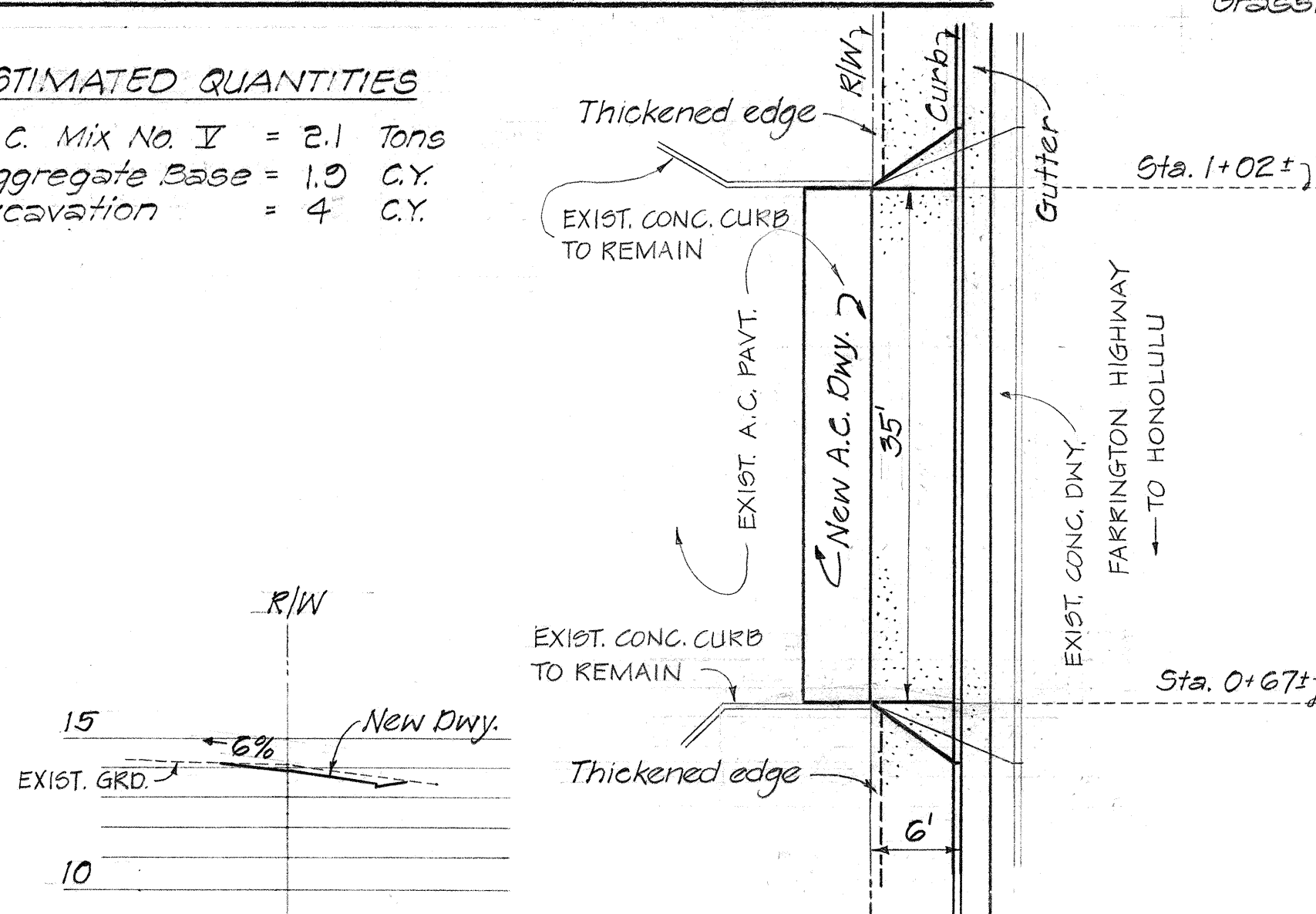


STA. 2+17
T.M.K. 8-5-08:13

DRIVEWAYS AT STA. 1+64 & STA. 2+17 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.1 Tons
Aggregate Base = 1.0 C.Y.
Excavation = 4 C.Y.

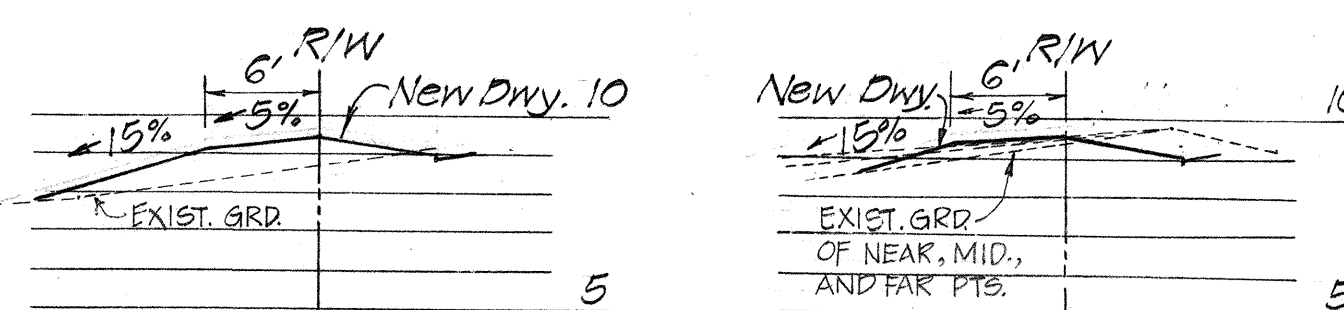
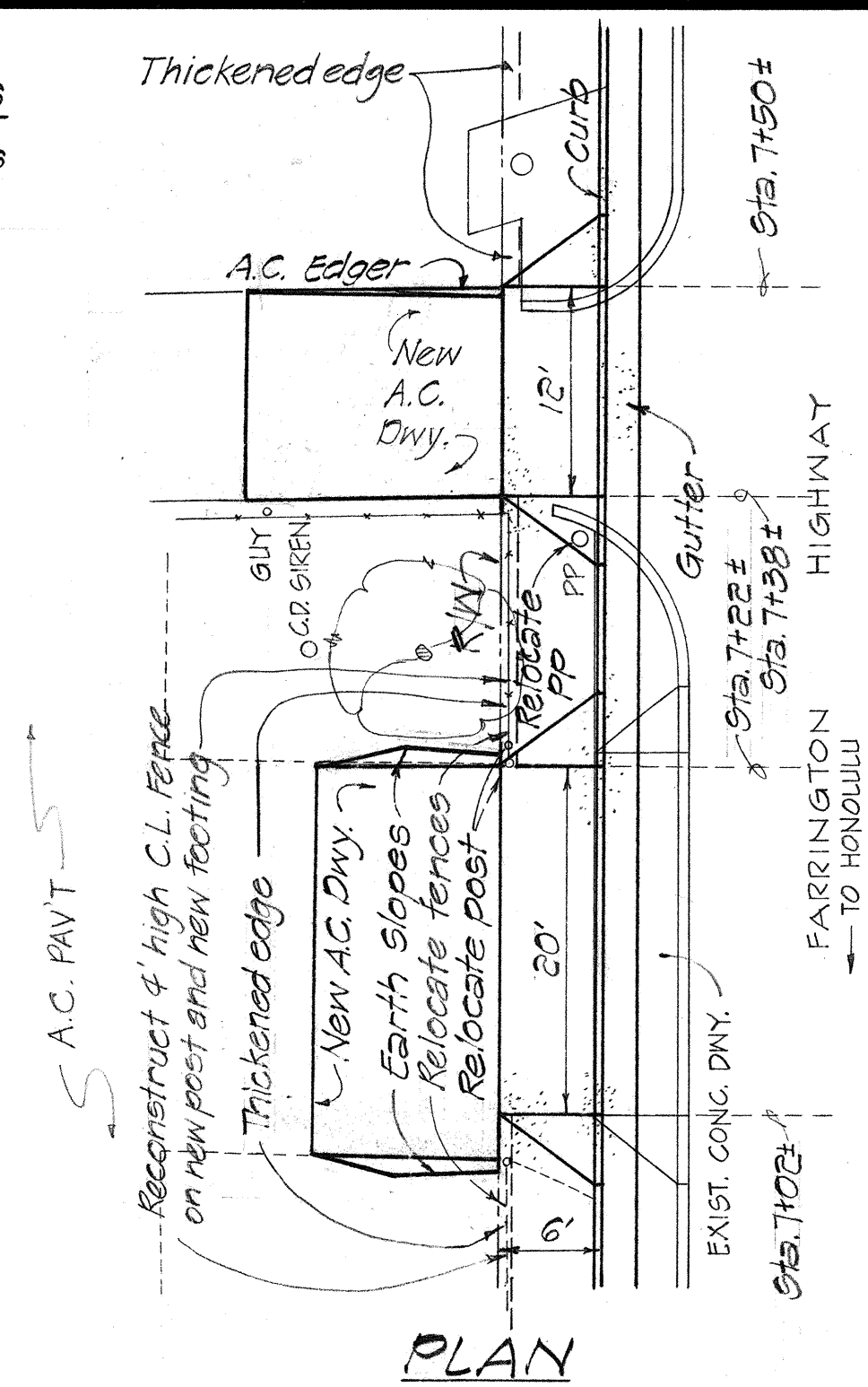


T.M.K. 8-5-08:17

DRIVEWAY AT STA. 0+85 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 5.6 Tons
Aggregate Base = 5.1 C.Y.
Excavation = 3 C.Y.
Fill = 2 C.Y.
Grassing = 9 S.F.

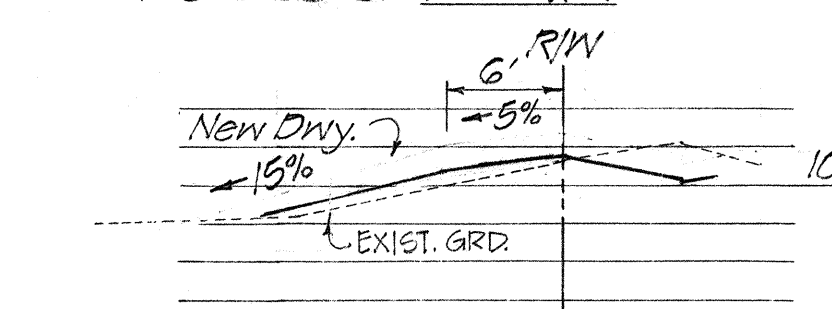
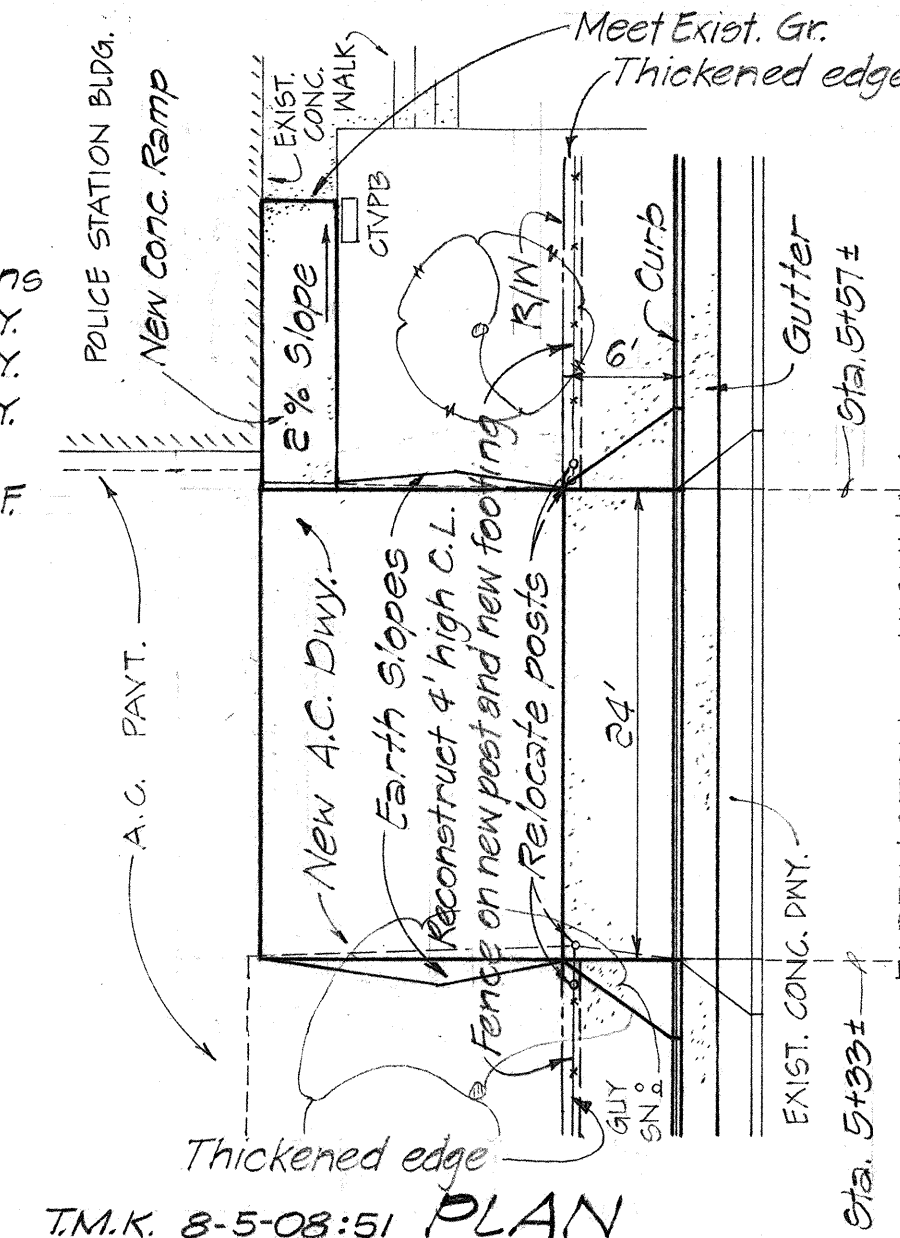


STA. 7+44
T.M.K. 8-5-08:43

DRIVEWAY AT STA. 7+12 & STA. 7+44 (LEFT)

ESTIMATED QUANTITIES

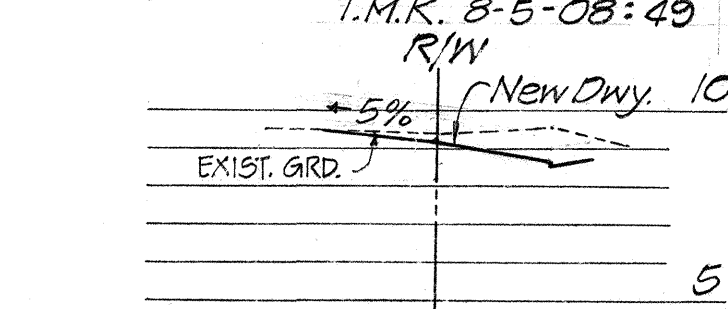
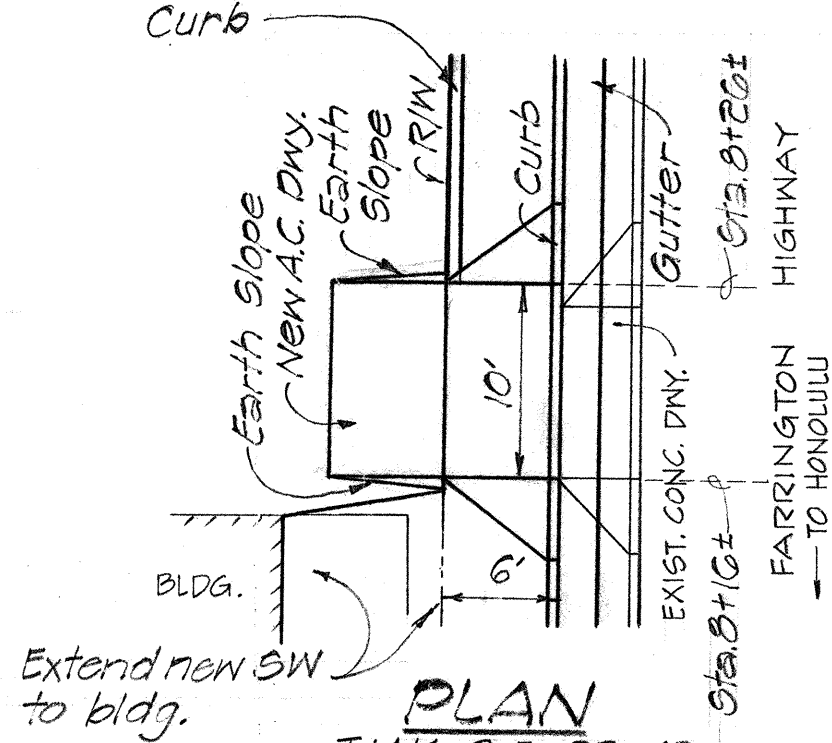
A.C. Mix No. V = 5.0 Tons
Aggregate Base = 4.6 C.Y.
Excavation = 8 C.Y.
Conc. Sidewalk = 7 S.F.
Grassing = 13 S.F.



DRIVEWAY AT STA. 5+45 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.8 Tons
Aggregate Base = 0.7 C.Y.
Excavation = 2 C.Y.
Grassing = 8 S.F.



DRIVEWAY AT STA. 8+21 (LEFT)

Note #1: Except where noted otherwise,
Estimated Quantities for Driveway
Ramps include only quantities outside
the Right-of-Way line.

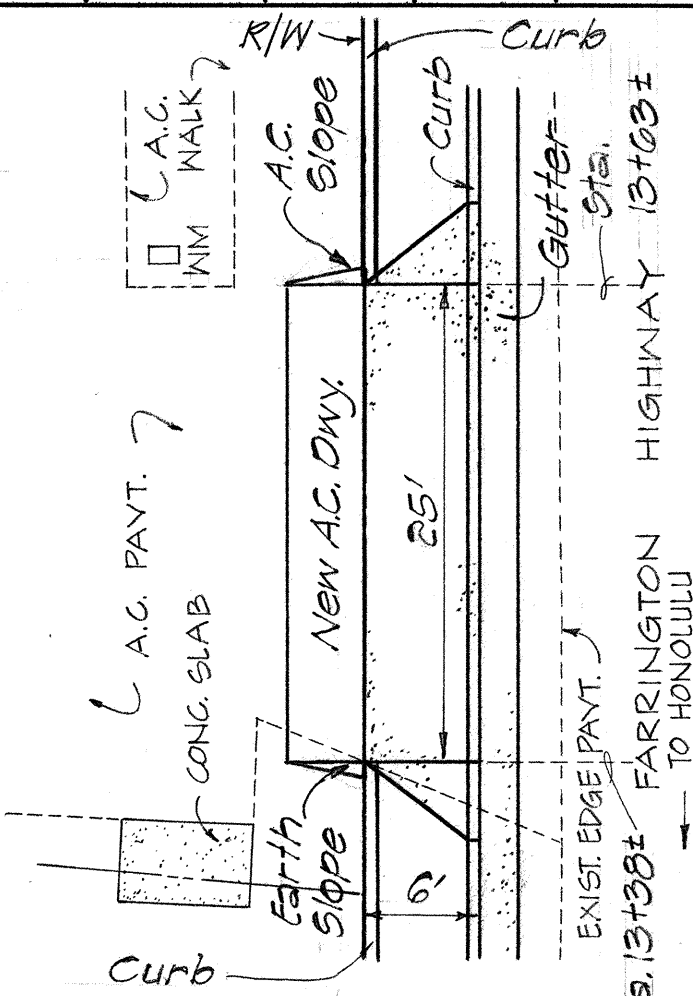
NOTE:
See sheet 37
for details of
Driveway at Sta. 9+33

PROJECT NO. 93B-01-75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	33	159

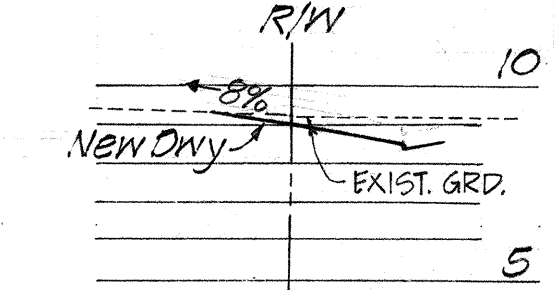
ESTIMATED QUANTITIES

A.C. Mix No. V = 1.3 Tons
Aggregate Base = 1.2 C.Y.
Excavation = 3 C.Y.
Grassing = 5 S.F.



T.M.K. 8-5-11:17

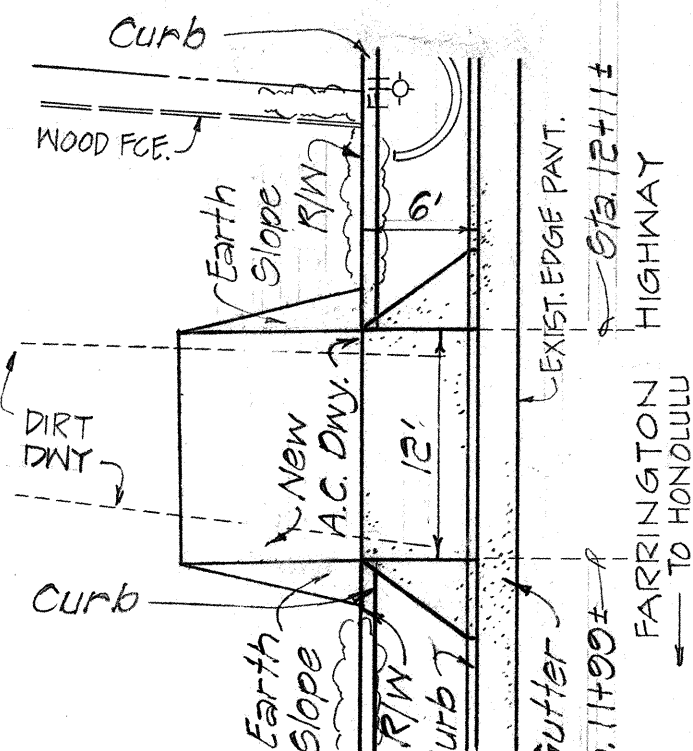
NOTE:
See Sheet 37
for Details of
Driveway at Sta. 12+82



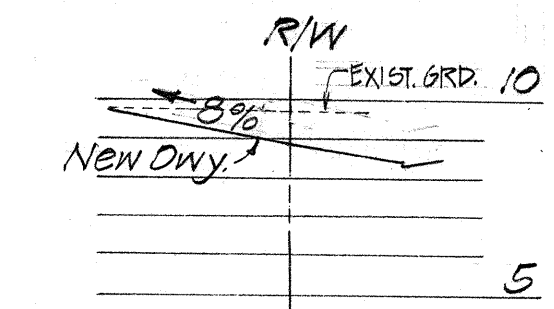
DRIVEWAY AT STA. 13+50 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.5 Tons
Aggregate Base = 1.4 C.Y.
Excavation = 5 C.Y.
Grassing = 22 S.F.



T.M.K. 8-5-11:19



DRIVEWAY AT STA. 12+05 (LEFT)

DATE	REVISION
3/7/79	Deleted driveway at Sta. 9+25

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
LEFT SIDE

FARRINGTON HIGHWAY WIDENING

LUUALAEI HOMESTEAD ROAD TO JADE STREET

PROJECT NO. 93B-01-75, UNIT I

SCALE: 1"=10'

DATE:

SHEET NO. 13 OF 29 SHEETS

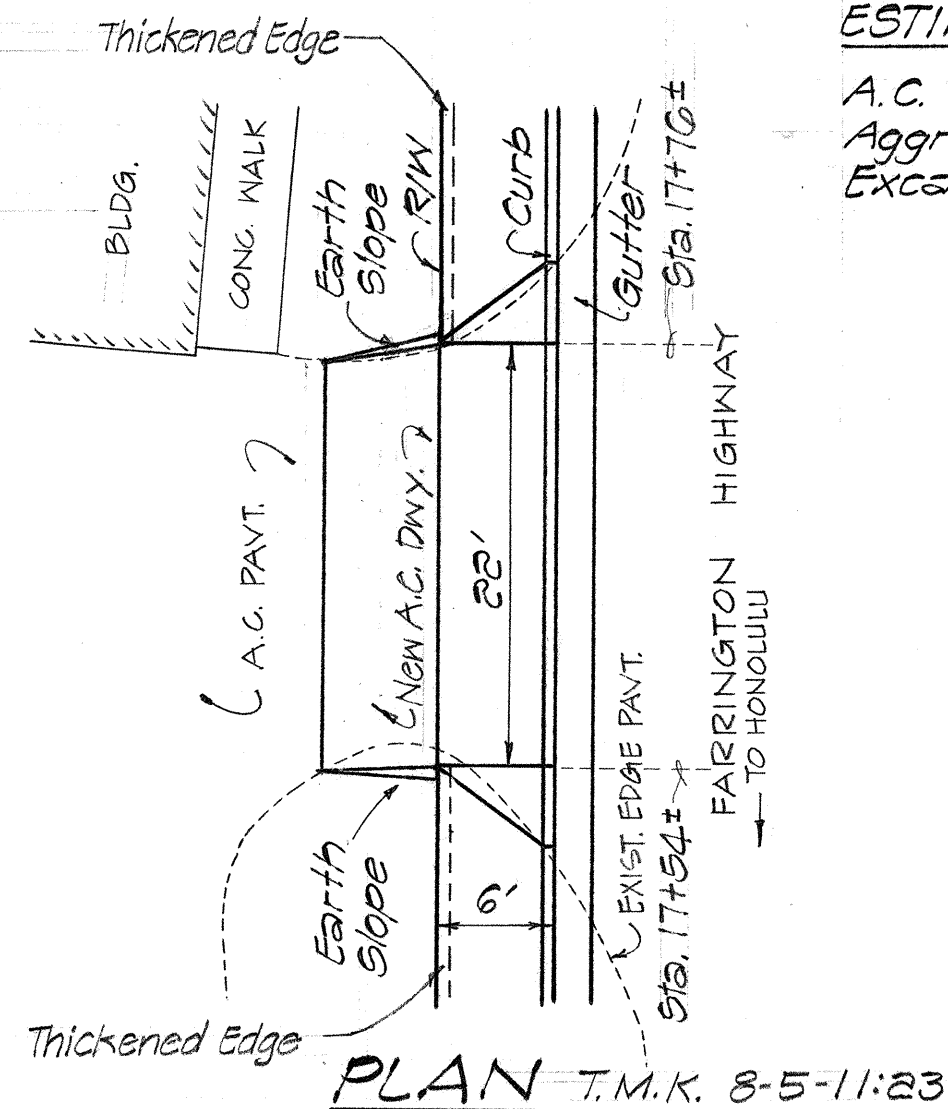


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ME OR UNDER MY SUPERVISION

Paul T. Taniguchi

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.7 Tons
Aggregate Base = 1.0 C.Y.
Excavation = 2 C.Y.
Grassing = 4 S.F.



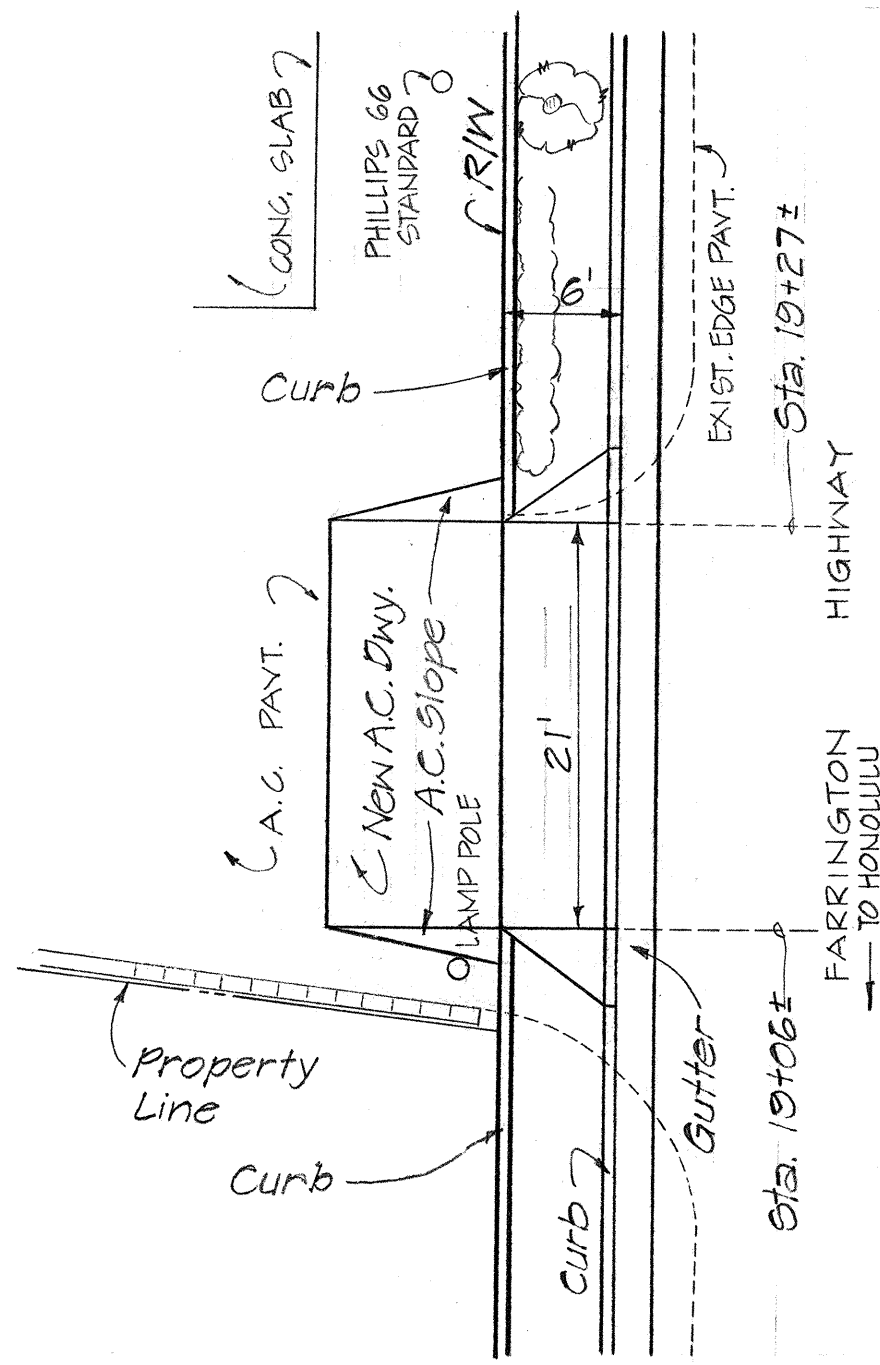
PLAN T.M.K. 8-5-11:23

PROFILE

DRIVEWAY AT STA. 17+65 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.0 Tons
Aggregate Base = 2.7 C.Y.
Excavation = 7 C.Y.



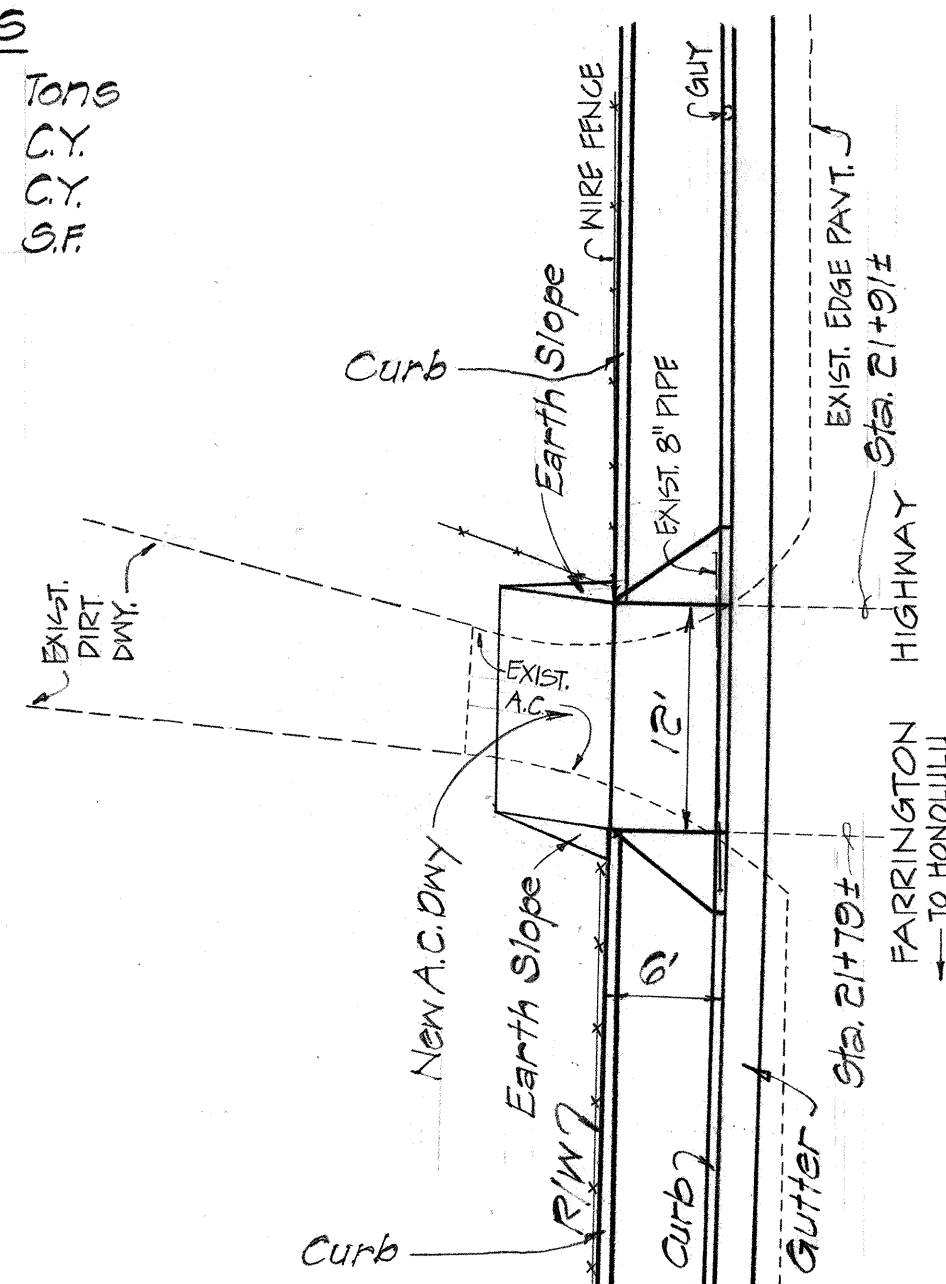
PLAN T.M.K. 8-5-11:9

PROFILE

DRIVEWAY AT STA. 19+17 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.9 Tons
Aggregate Base = 0.8 C.Y.
Excavation = 2 C.Y.
Grassing = 9 S.F.



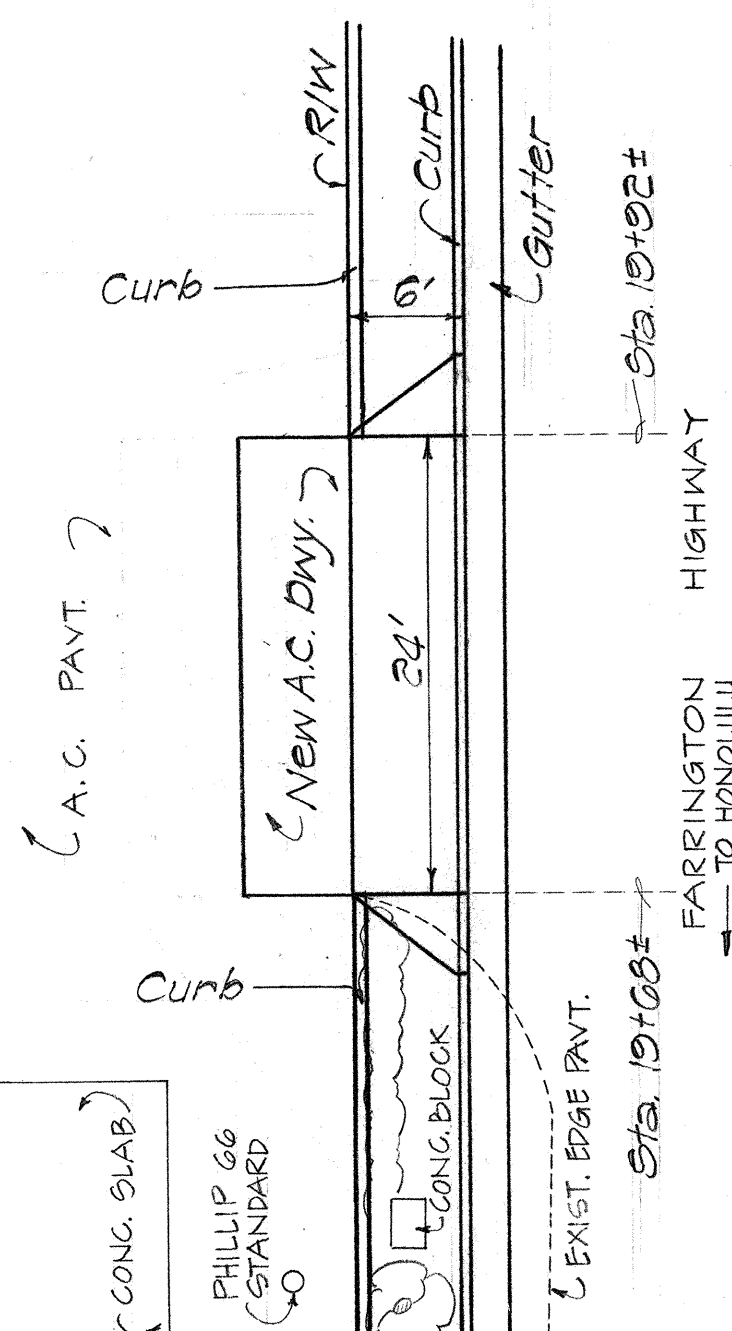
PLAN T.M.K. 8-5-13:2

PROFILE

DRIVEWAY AT STA. 21+85 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.0 Tons
Aggregate Base = 1.7 C.Y.
Excavation = 3 C.Y.



PLAN T.M.K. 8-5-11:3

PROFILE

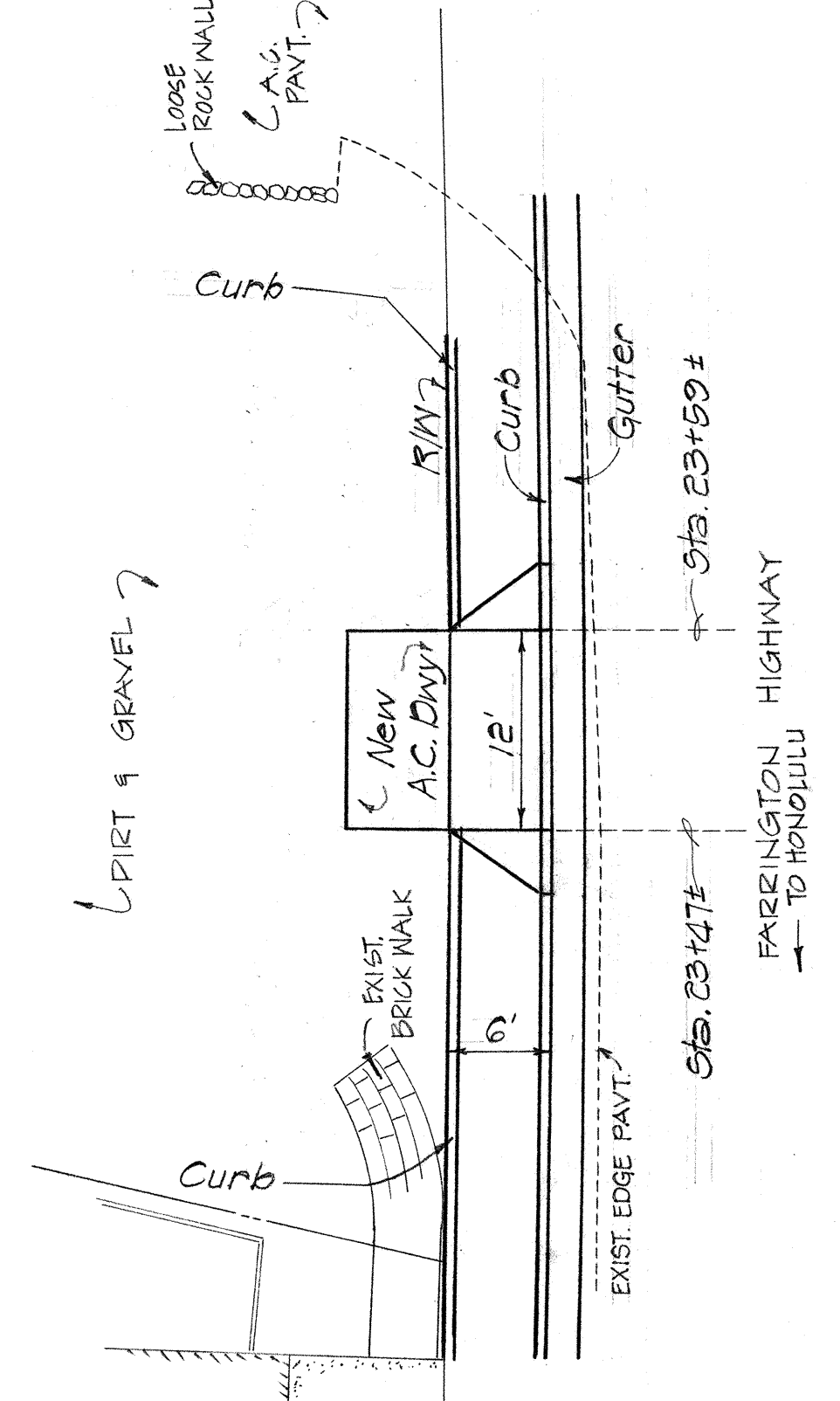
DRIVEWAY AT STA. 19+80 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.9 Tons
Aggregate Base = 0.9 C.Y.
Excavation = 2 C.Y.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	34	159

PROJECT NO. 93B-01-75



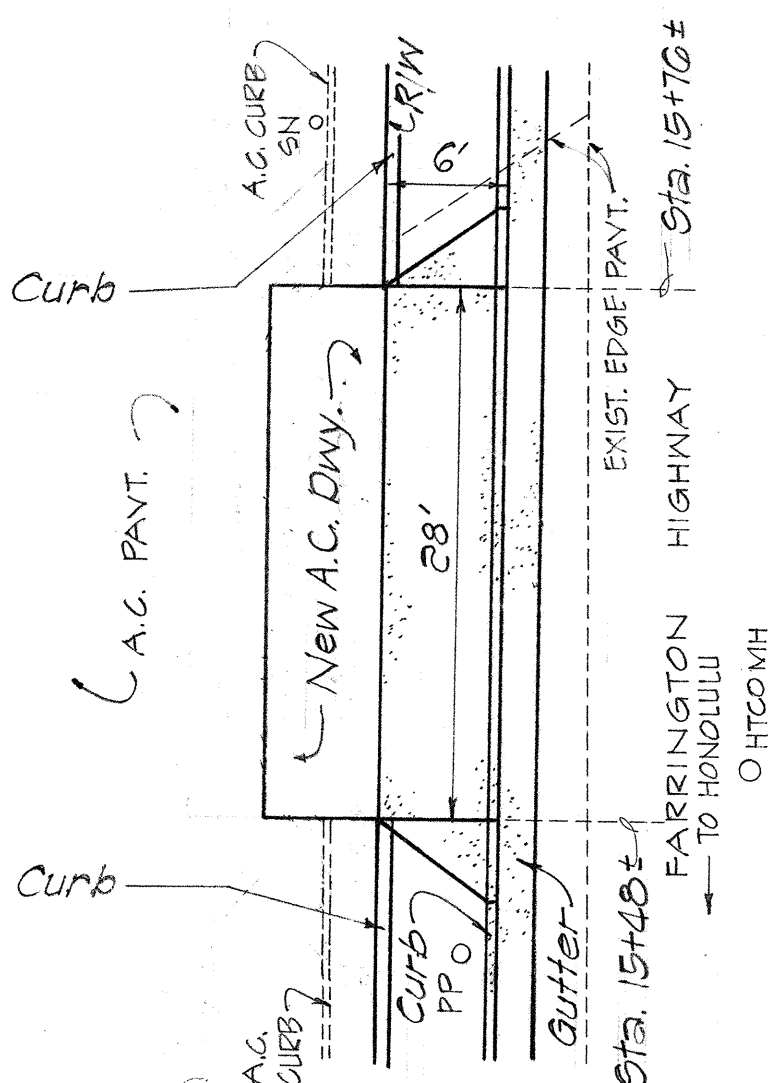
PLAN T.M.K. 8-5-13:5

PROFILE

DRIVEWAY AT STA. 23+53 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.0 Tons
Aggregate Base = 1.0 C.Y.
Excavation = 3 C.Y.



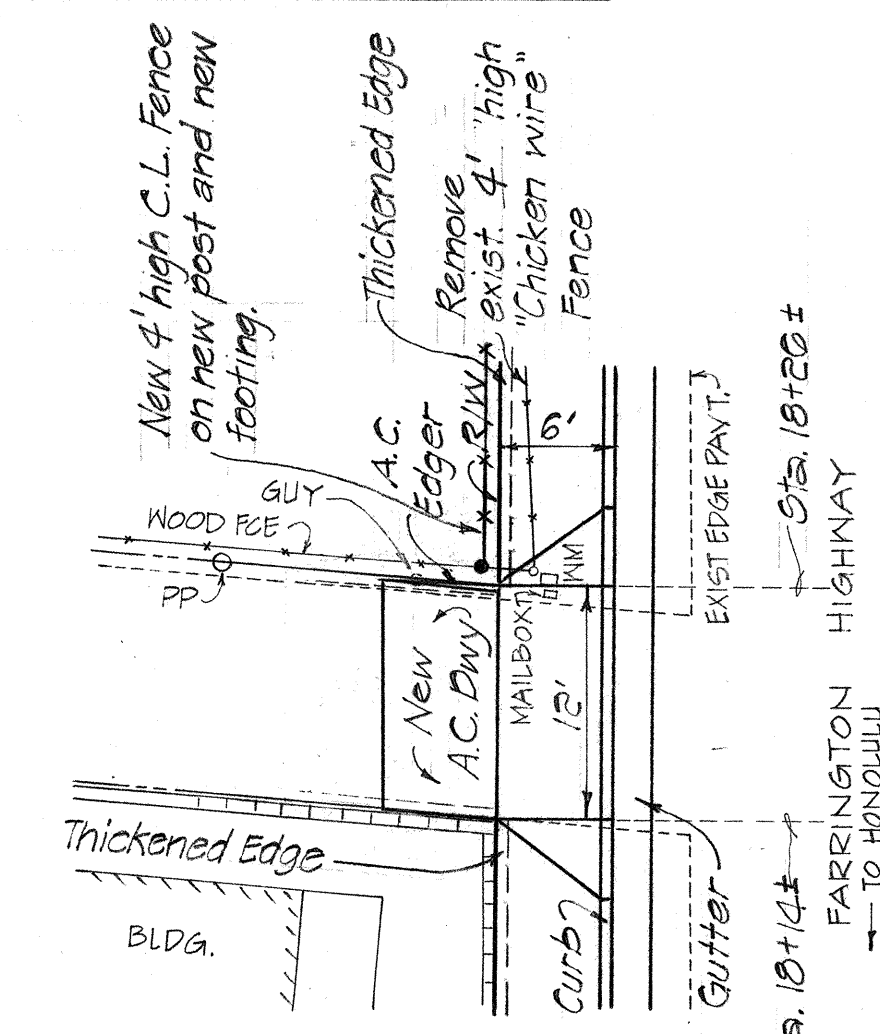
PLAN T.M.K. 8-5-11:14

PROFILE

DRIVEWAY AT STA. 15+62 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.9 Tons
Aggregate Base = 0.9 C.Y.
Excavation = 2 C.Y.



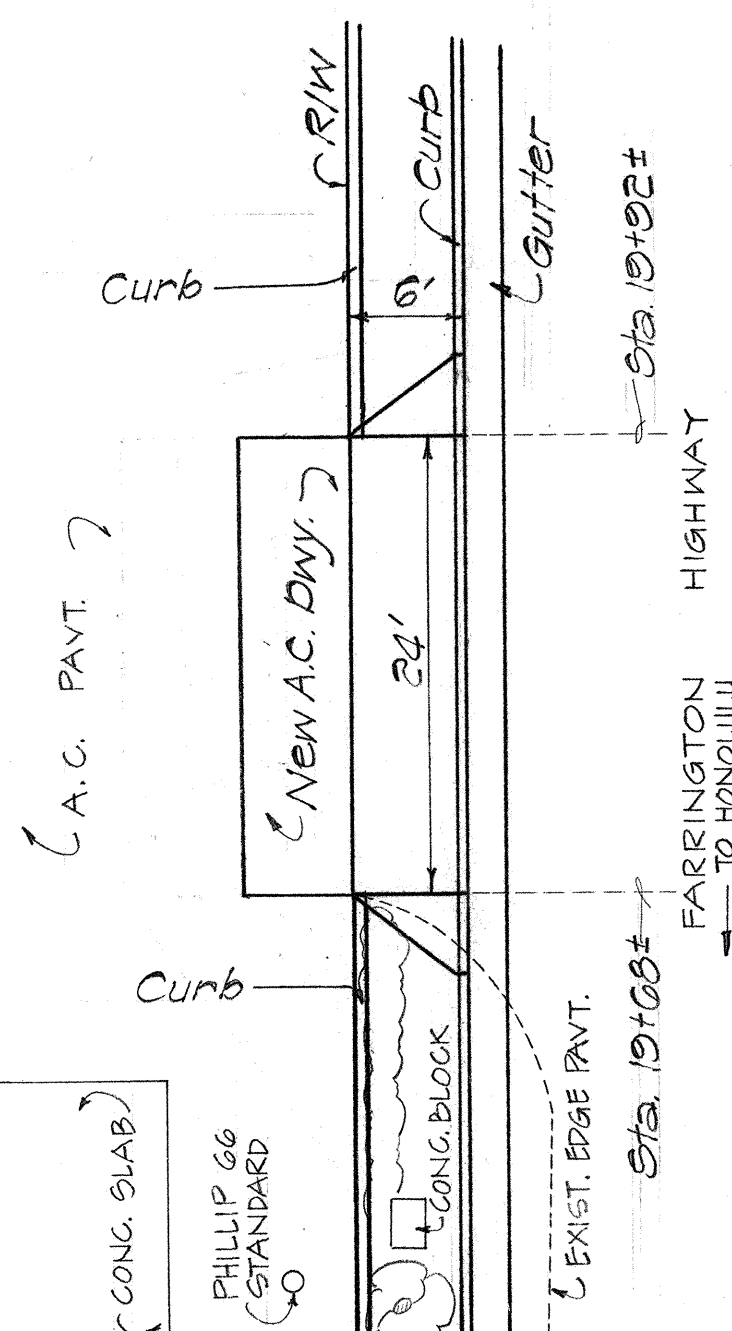
PLAN T.M.K. 8-5-11:12

PROFILE

DRIVEWAY AT STA. 18+20 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.0 Tons
Aggregate Base = 1.7 C.Y.
Excavation = 3 C.Y.



PLAN T.M.K. 8-5-11:3

PROFILE

DRIVEWAY AT STA. 19+80 (LEFT)

Note: Refer to note #1 on Sheet 33.



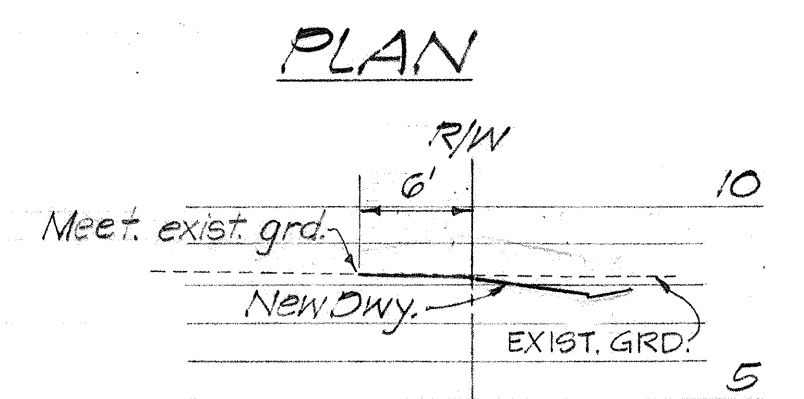
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Paul J. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

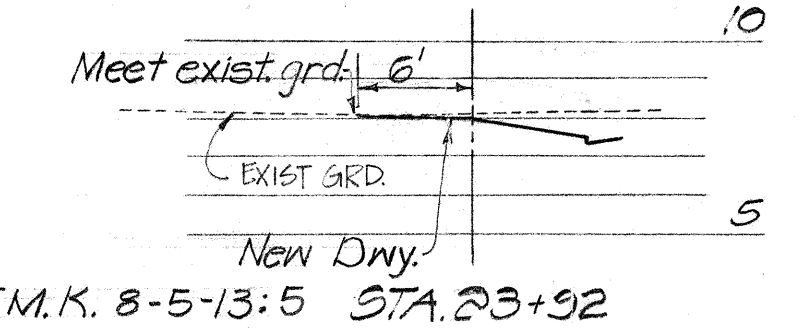
DRIVEWAY DETAILS
LEFT SIDE
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE:
SHEET No. 14 OF 20 SHEETS

A.C. Mix No. V	=	4.8	Tons
Aggregate Base	=	4.5	C.Y.
Excavation	=	8	C.Y.
Grassing	=	12	S.F.



T.M.K. 8-5-37 STA. 24+69

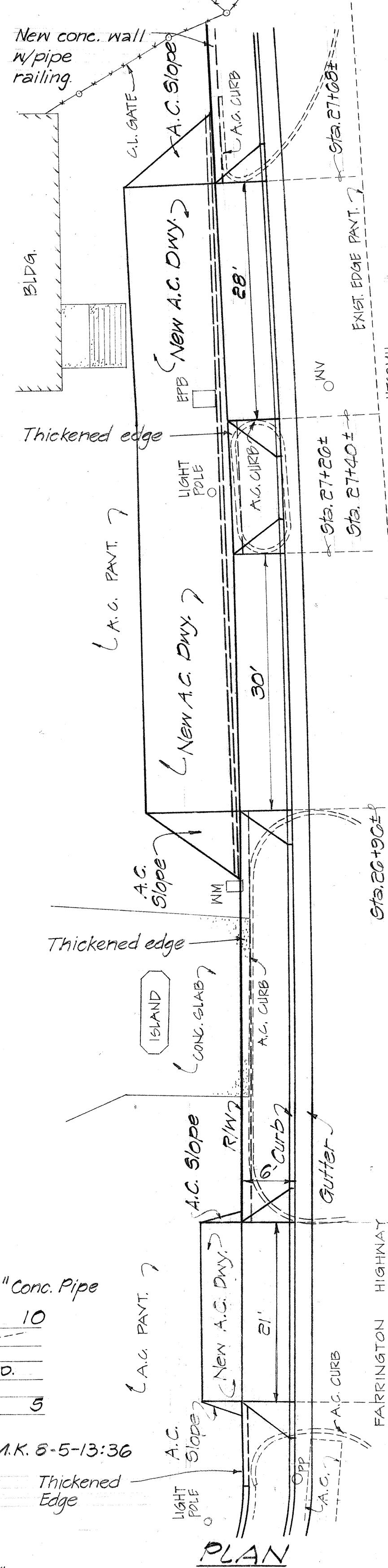
STA. 24+38 T.M.K. 8-5-13:5,12



T.M.K. 8-5-13:5 STA. 23+92

DRIVEWAYS AT STA. 23+92, 24+38 & 24+69 (LEFT)

A.C. Mix No. II = 12.6 Tons
Aggregate Base = 11.4 C.Y.
Excavation = 4 C.Y.
Fill = 10 C.Y.
6" Plain conc. pipe, Cl. III
in Cl. "A" Bedding = 20 L.F.
Class "C" conc. = 4.5 C.Y.

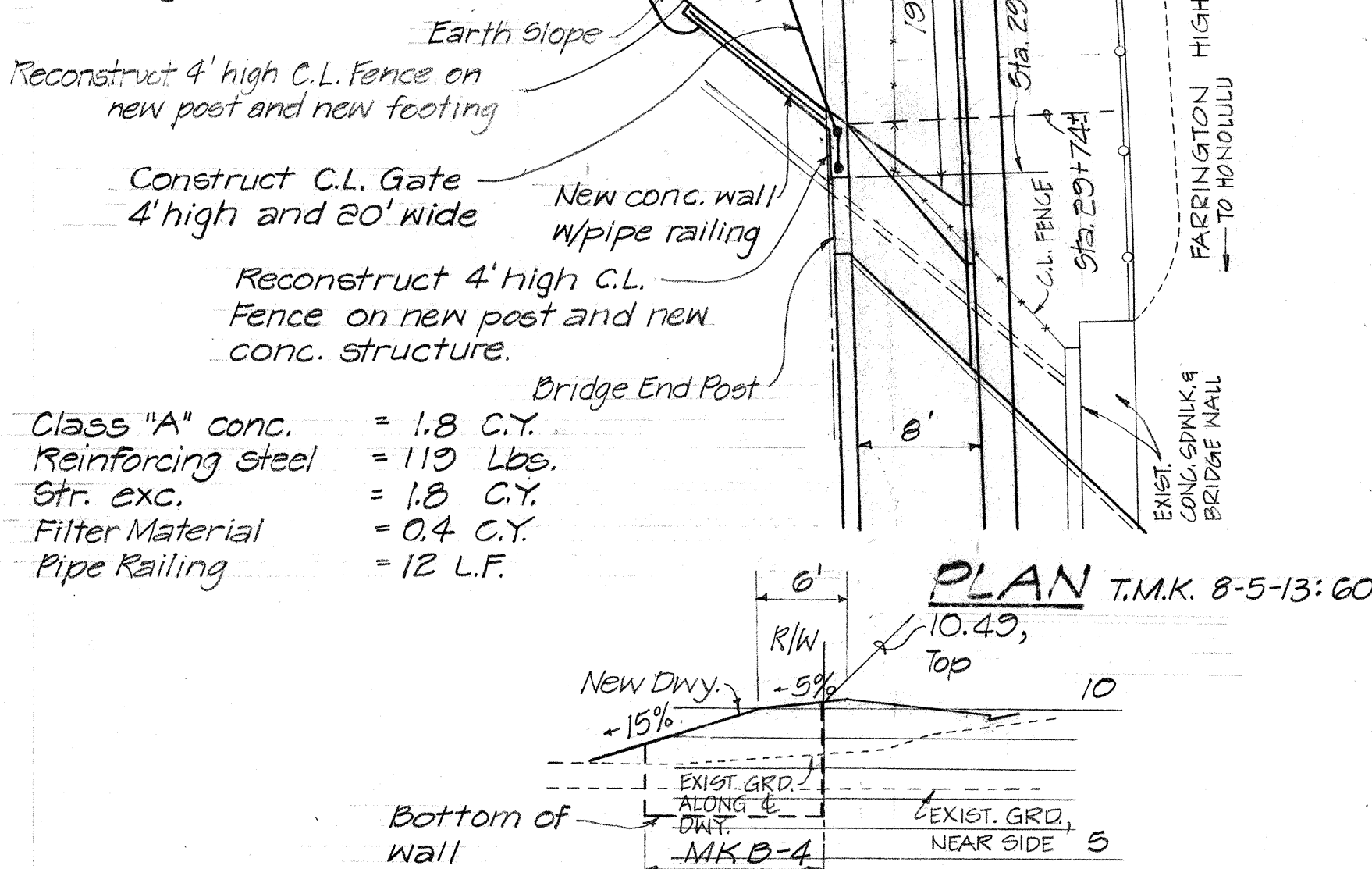


STA. 27+54 T.M.K. 8-5-13:36

STA. 27+11
T.M.K. 8-5-13:36 PROFILE

DRIVEWAYS AT STA. 26+35, 27+11 & 27+54 (LEFT)

A.C. Mix No. V = 3.8 Tons
Aggregate Base = 3.5 C.Y.
Excavation = 1 C.Y.
Fill = 11 C.Y.
Reconstruct 4' high C.L. Fence on
new post and new footing = 17 L.F.
Reconstruct 4' high C.L. Fence on
new post and new conc.
structure = 3 L.F.
Construct C.L. Gate 4' high and
20' wide. = 1 Ea.
Grassing = 35 S.F.



DRIVEWAY AT STA. 29+84 (LEFT)

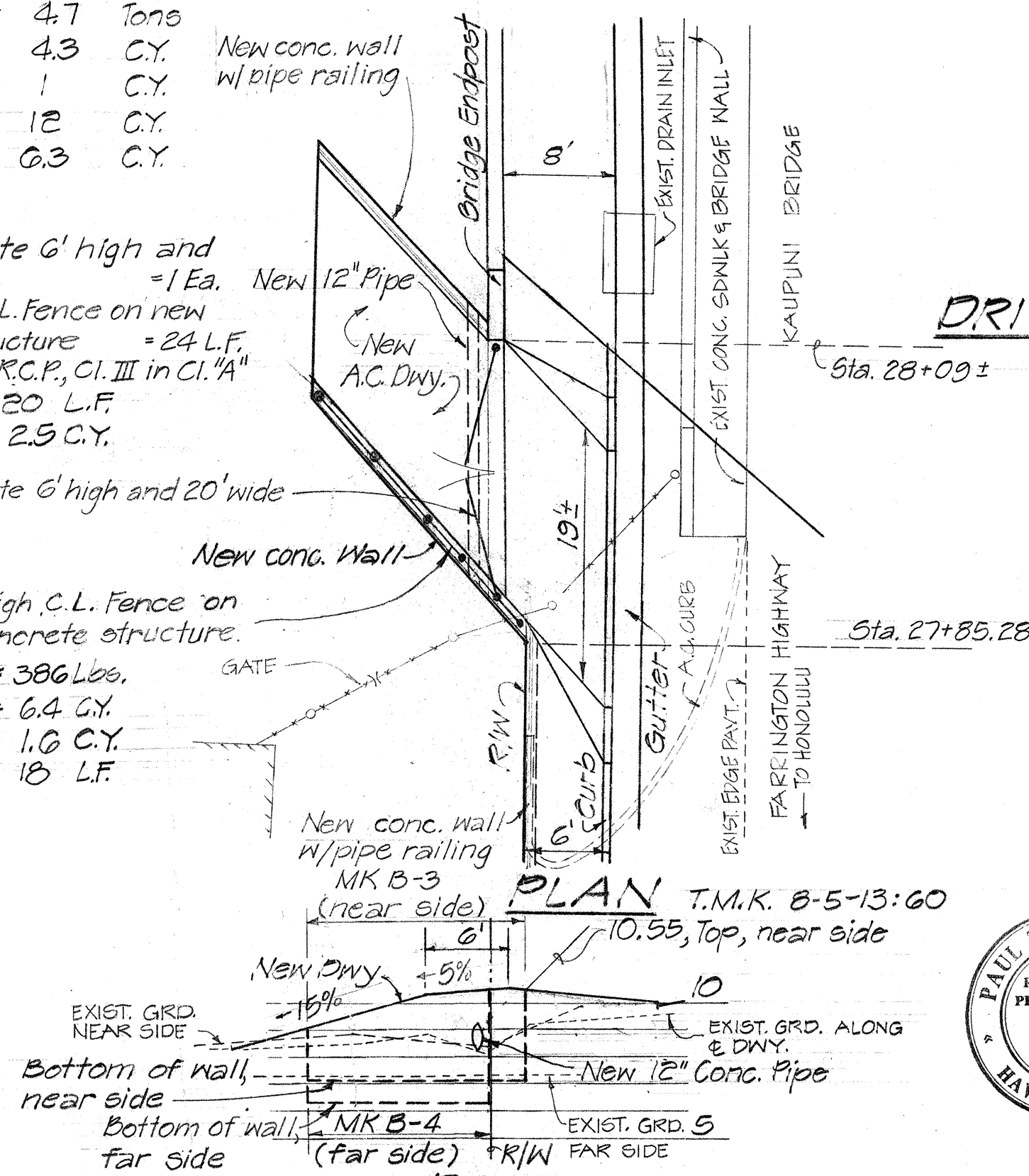
A.C. Mix No. V = 4.7 Tons
Aggregate Base = 4.3 C.Y.
Excavation = 1 C.Y.
Fill = 12 C.Y.
Cl. "A" conc. = 6.3 C.Y.

Construct C.L. Gate 6' high and
20' wide. = 1 Ea.
Reconstruct 6' high C.L. Fence on new
post and conc. structure = 24 L.F.
12" A.C.P., C.I. III or 12" R.C.P., C.I. III in Cl. "A"
Bedding = 20 L.F.
Class "C" conc. = 2.5 C.Y.

Construct C.L. Gate 6' high and 20' wide

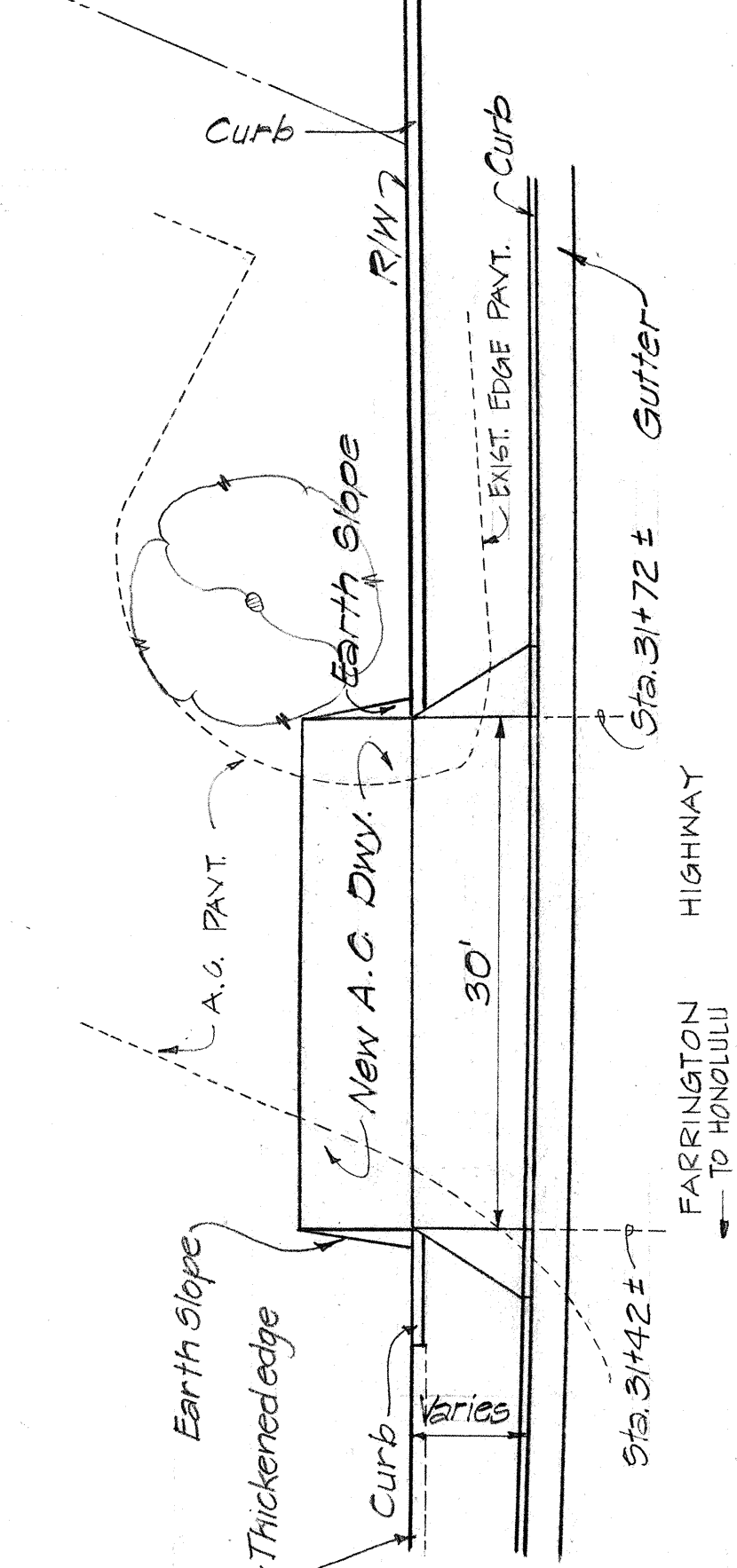
Reconstruct 6' high C.L. Fence on

Reinforcing steel = 386 Lbs.
Str. exc. = 6.4 C.Y.
Filter mat'l. = 1.6 C.Y.
Pipe Railing = 18 L.F.



DRIVEWAY AT STA. 27+99 (LEFT)

A.C. Mix No. V	=	3.0	Tons
Aggregate Base	=	3.0	C.Y.
Excavation	=	5	C.Y.
Grassing	=	7	S.F.



T.M.K. 8-5-13:14 PLAN

PROFILE

DRIVEWAY AT STA. 31+57 (LEFT)

Note: Refer to note #1 on Sheet 33.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
LEFT SIDE

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I

SCALE: 1"=10' DATE:

SHEET NO. 15 OF 29 SHEETS

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ME OR UNDER MY SUPERVISION.

Paul J. Fung

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.5 Tons
Aggregate Base = 2.3 C.Y.
Excavation = 3 C.Y.
Fill = 1 C.Y.
6" Plain conc. pipe, Cl. III
in Cl. "A" bedding = 15 L.F.
Grassing = 23 S.F.
Class "C" conc. = 0.8 C.Y.

ESTIMATED QUANTITIES

A.C. Mix No. V = 6.5 Tons
Aggregate Base = 22.7 C.Y.
Excavation = 60 C.Y.
6" Reinf. Concrete
Pavement = 11.5 C.Y.
Grassing = 20 S.F.
Type 3B curb = 19 L.F.
Reconstruct 6' high
C.L. Fence on new post
& new footing = 28 L.F.

ESTIMATED QUANTITIES

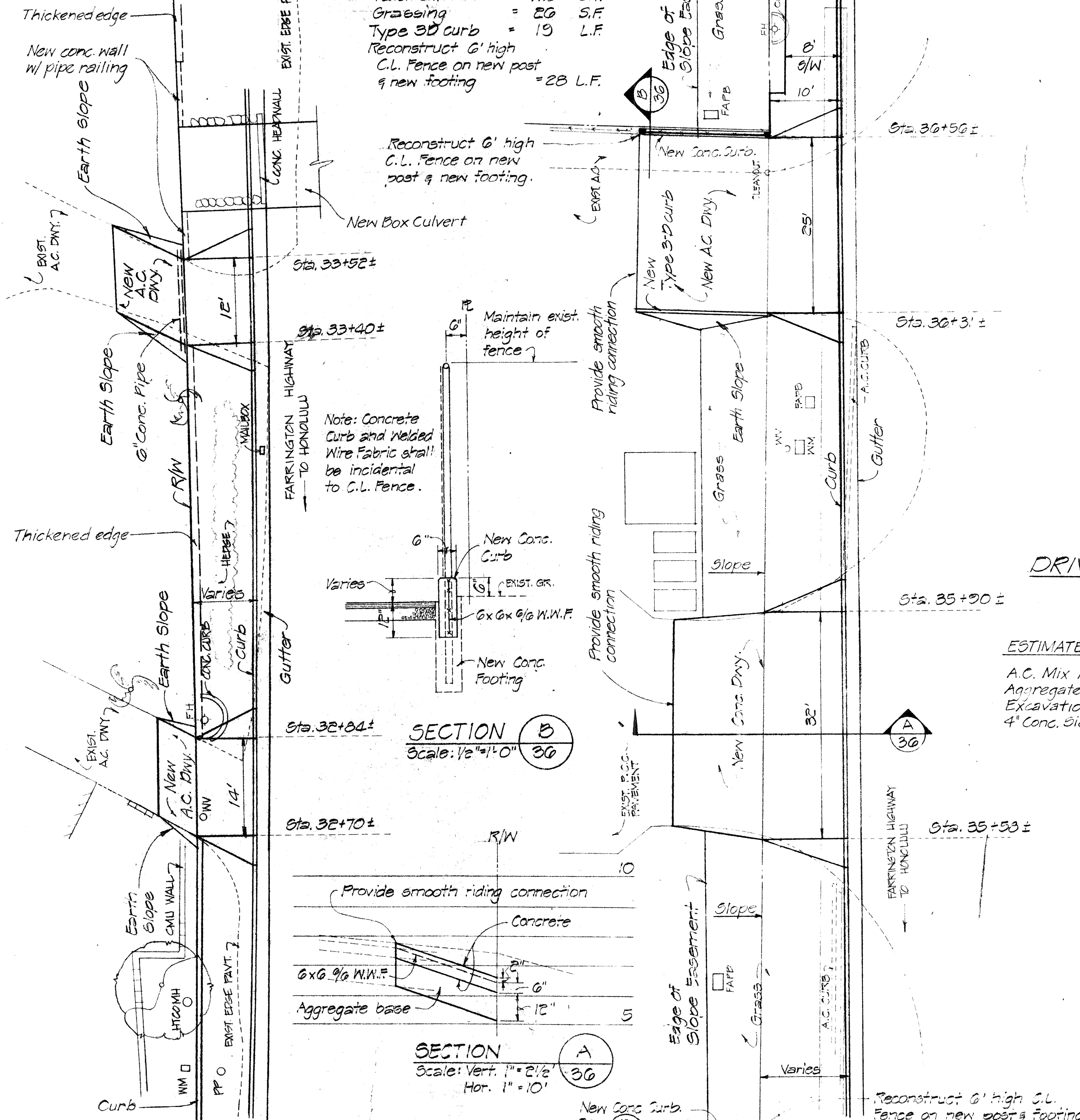
A.C. Mix No. V = 2.0 Tons
Aggregate Base = 1.9 C.Y.
Excavation = 7 C.Y.
Grassing = 37 S.F.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	36	150

PROJECT NO. 93B-01-75

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.6 Tons
Aggregate Base = 0.5 C.Y.
Excavation = 2 C.Y.
Grassing = 3 S.F.



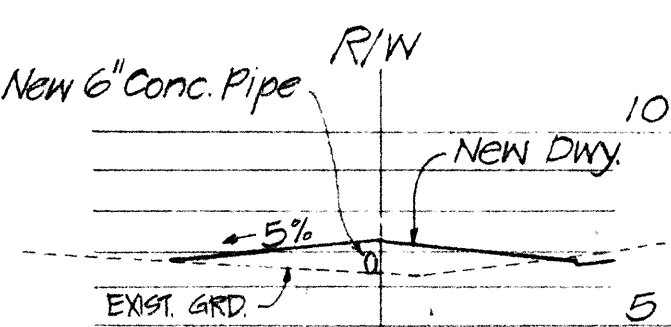
DRIVEWAY AT STA. 43+48 (LEFT)

ESTIMATED QUANTITIES

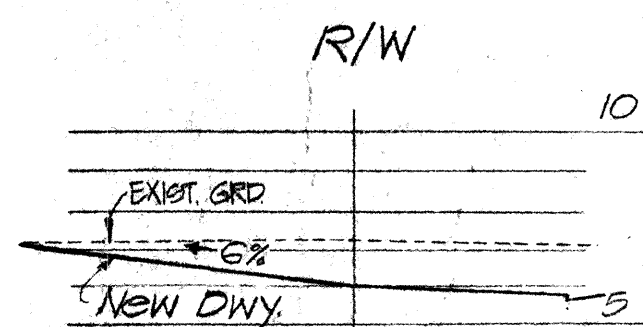
A.C. Mix No. V = 0.8 Tons
Aggregate Base = 0.7 C.Y.
Excavation = 8 C.Y.
4" Conc. Sidewalk = 4 S.Y.

DRIVEWAY AT STA. 47+58 (LEFT)

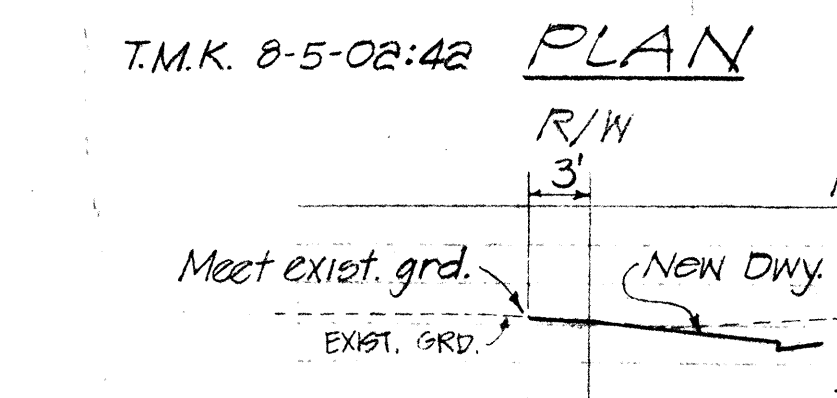
Note: Refer to Note #1 on Sheet 33.



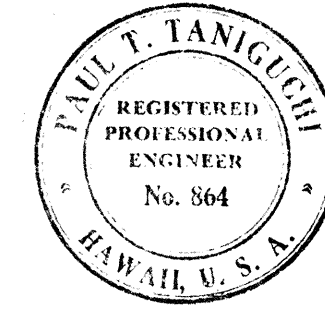
STA. 32+77
T.M.K. 8-5-13:14
PROFILE
DRIVEWAYS AT STA. 32+77 & 33+46 (LEFT)



STA. 35+74
T.M.K. 8-5-02:11
PROFILE
DRIVEWAYS AT STA. 35+74 & 36+43 (LEFT)



STA. 38+80
T.M.K. 8-5-02:11
PROFILE
DRIVEWAY AT STA. 38+80 (LEFT)



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Paul J. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
LEFT SIDE

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE:

SHEET NO. 10 OF 29 SHEETS

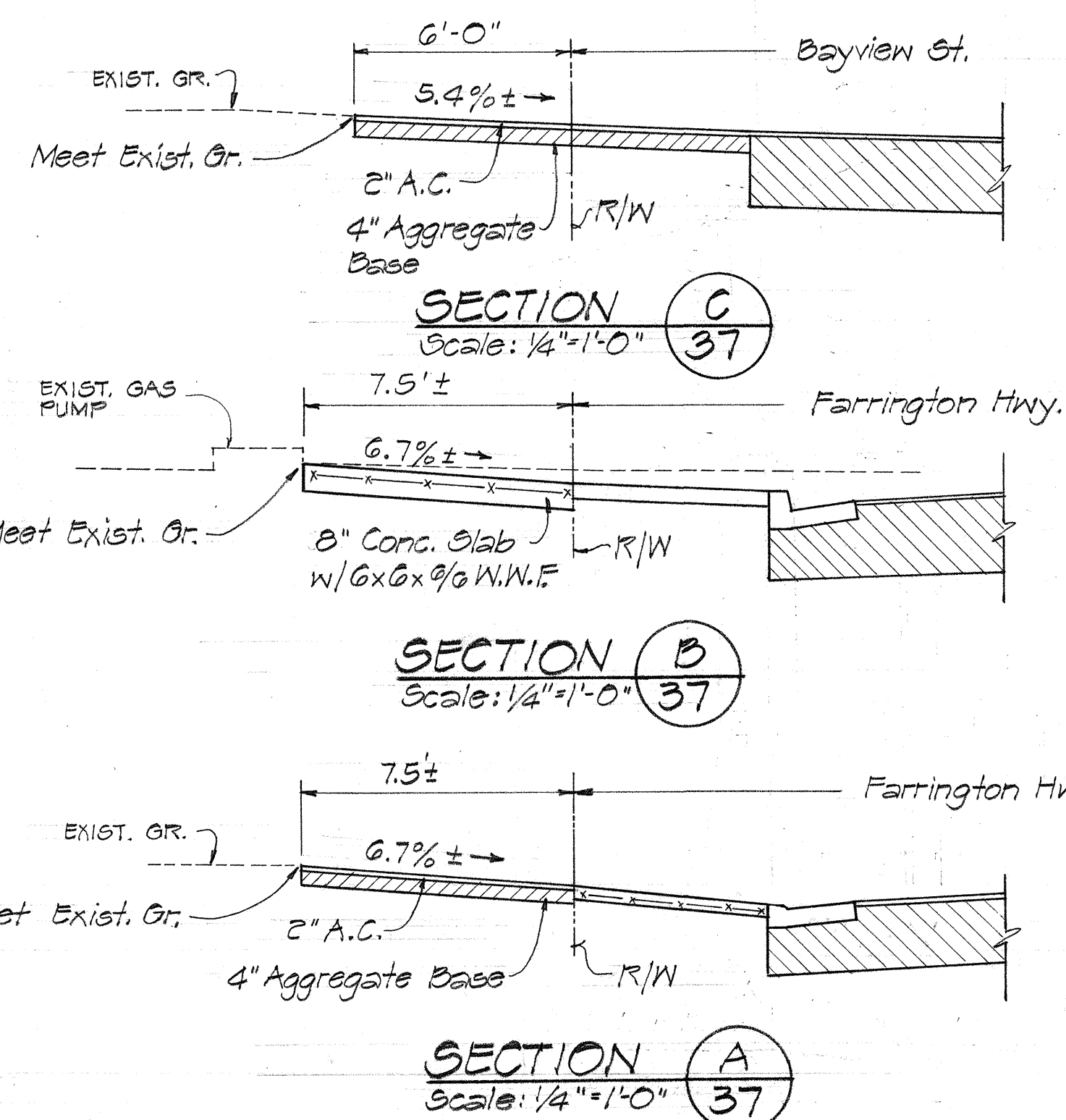
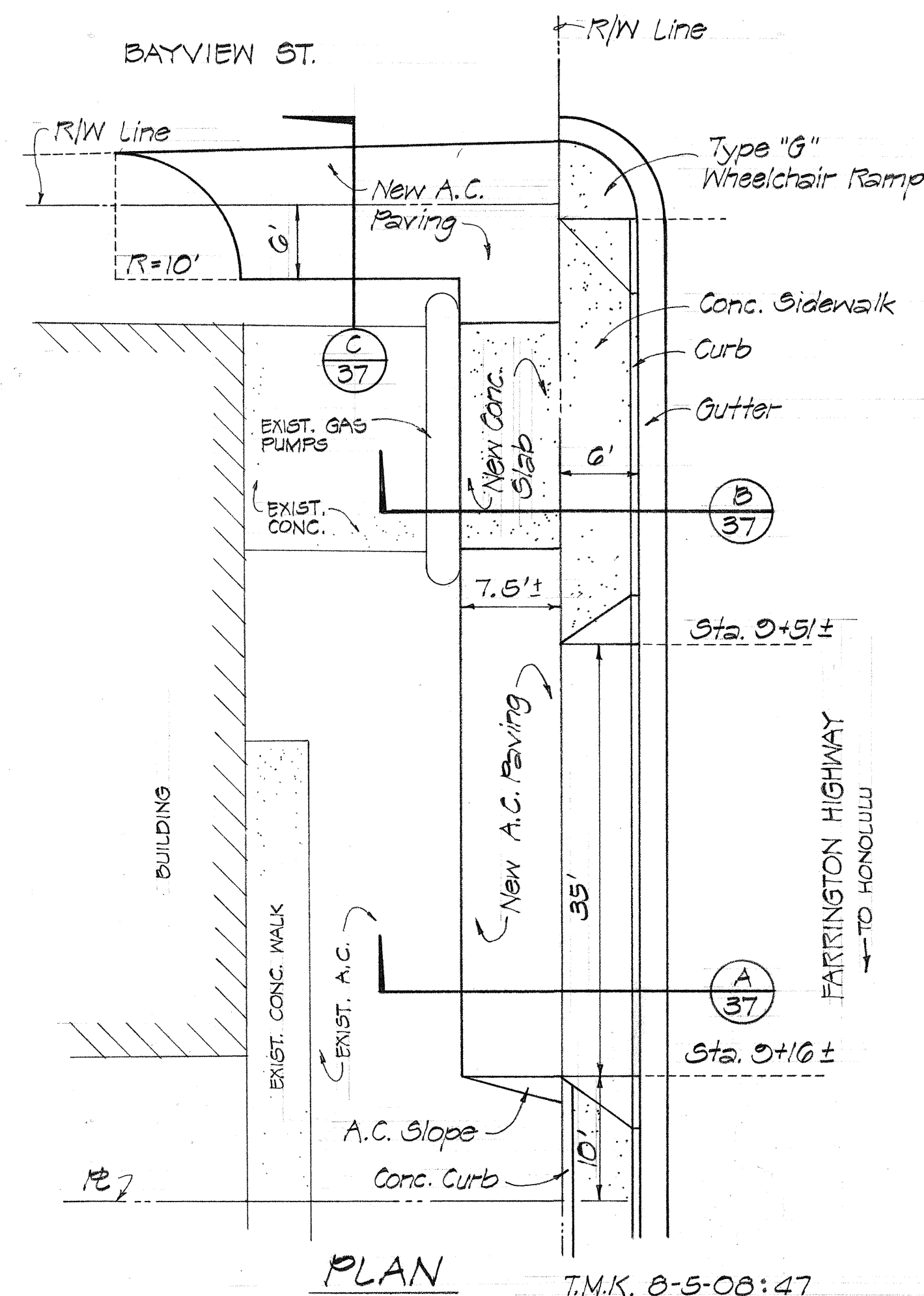
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	37	159

PROJECT NO. 93B-01-75

ESTIMATED QUANTITIES

A.C. Mix No. II = 8.6 Tons
Aggregate Base = 8.0 C.Y.
Excavation = 20 C.Y.
8" Reinforced Concrete Pavement = 3.4 C.Y.

Note: Quantities, above, include work within as well as outside the R/W for Bayview St.



DRIVEWAY AT STA. 0+33 (LEFT, FARRINGTON HWY.)
DRIVEWAY AT STA. 0+47 (LEFT, BAYVIEW ST.)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

5/7/79 Driveway width at Sta. 21+20 (left) increased from 30' to 35'. Added driveway at Sta. 0+33, Farrington Hwy. (left). Revised driveway at Sta. 0+47, Bayview St. (left).

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
LEFT SIDE

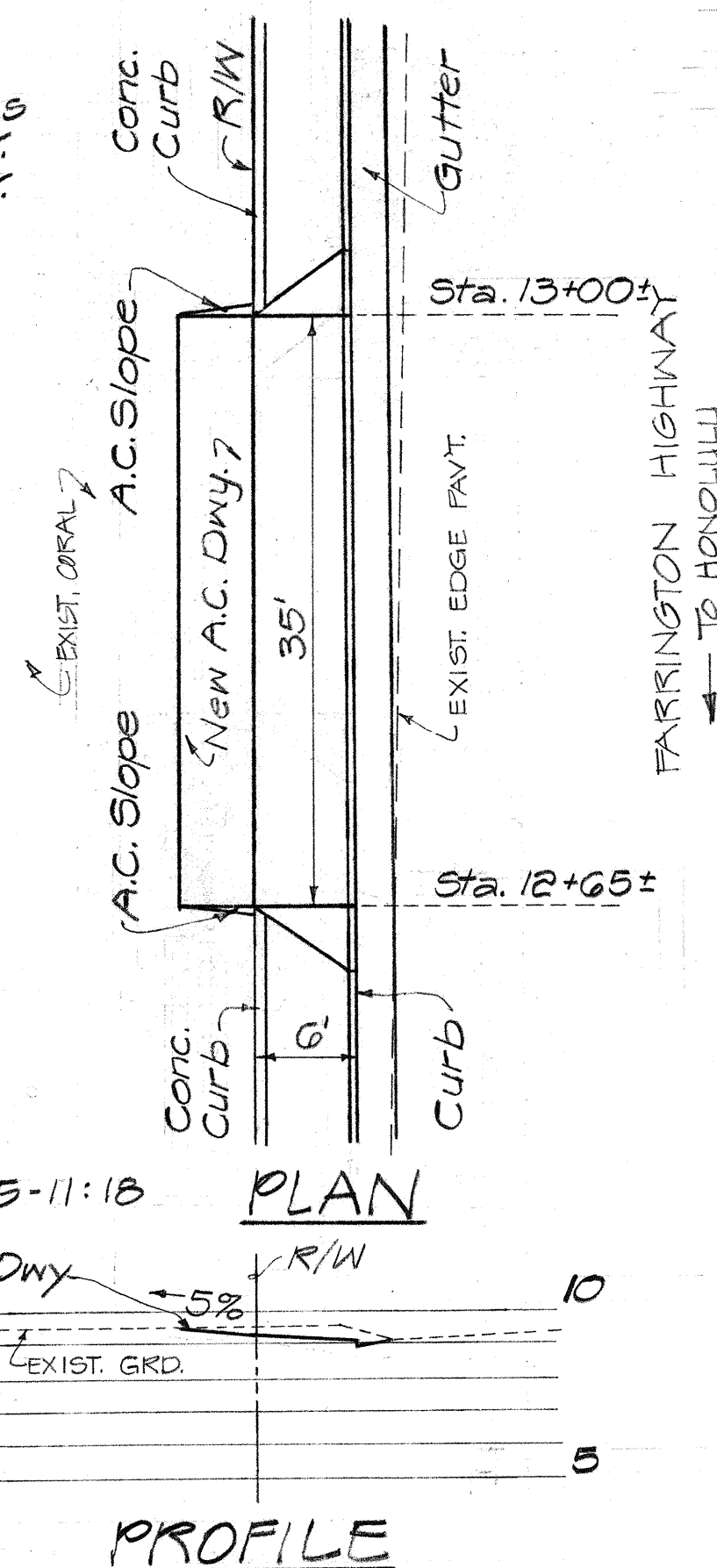
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE:

SHEET No. 17 OF 29 SHEETS

ADD. 37

ESTIMATED QUANTITIES

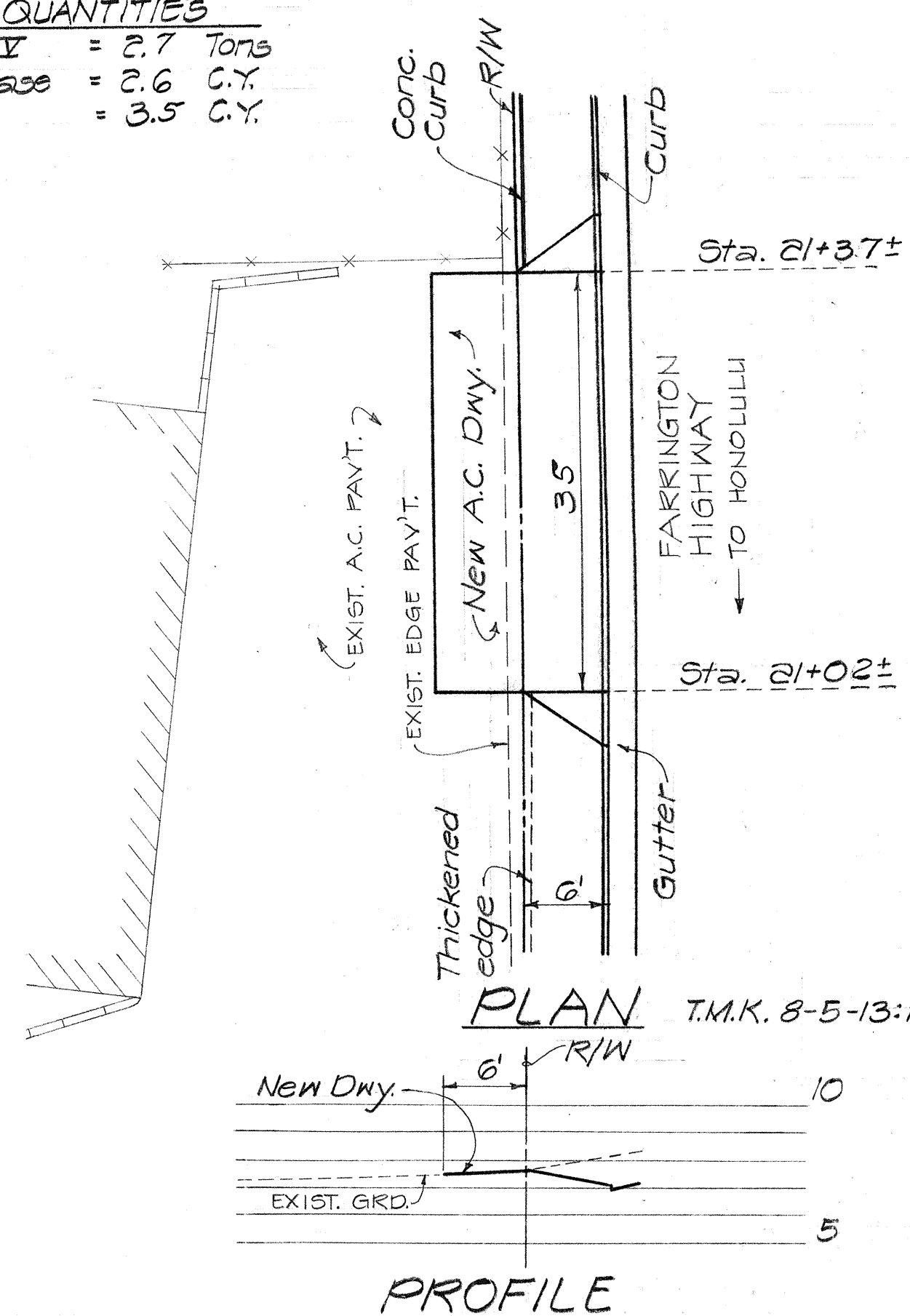
A.C. Mix No. II = 1.9 Tons
Aggregate Base = 1.7 C.Y.
Excavation = 3 C.Y.



DRIVEWAY AT STA. 12+82 (LEFT)

ESTIMATED QUANTITIES

A.C. Mix No. II = 2.7 Tons
Aggregate Base = 2.6 C.Y.
Excavation = 3.5 C.Y.



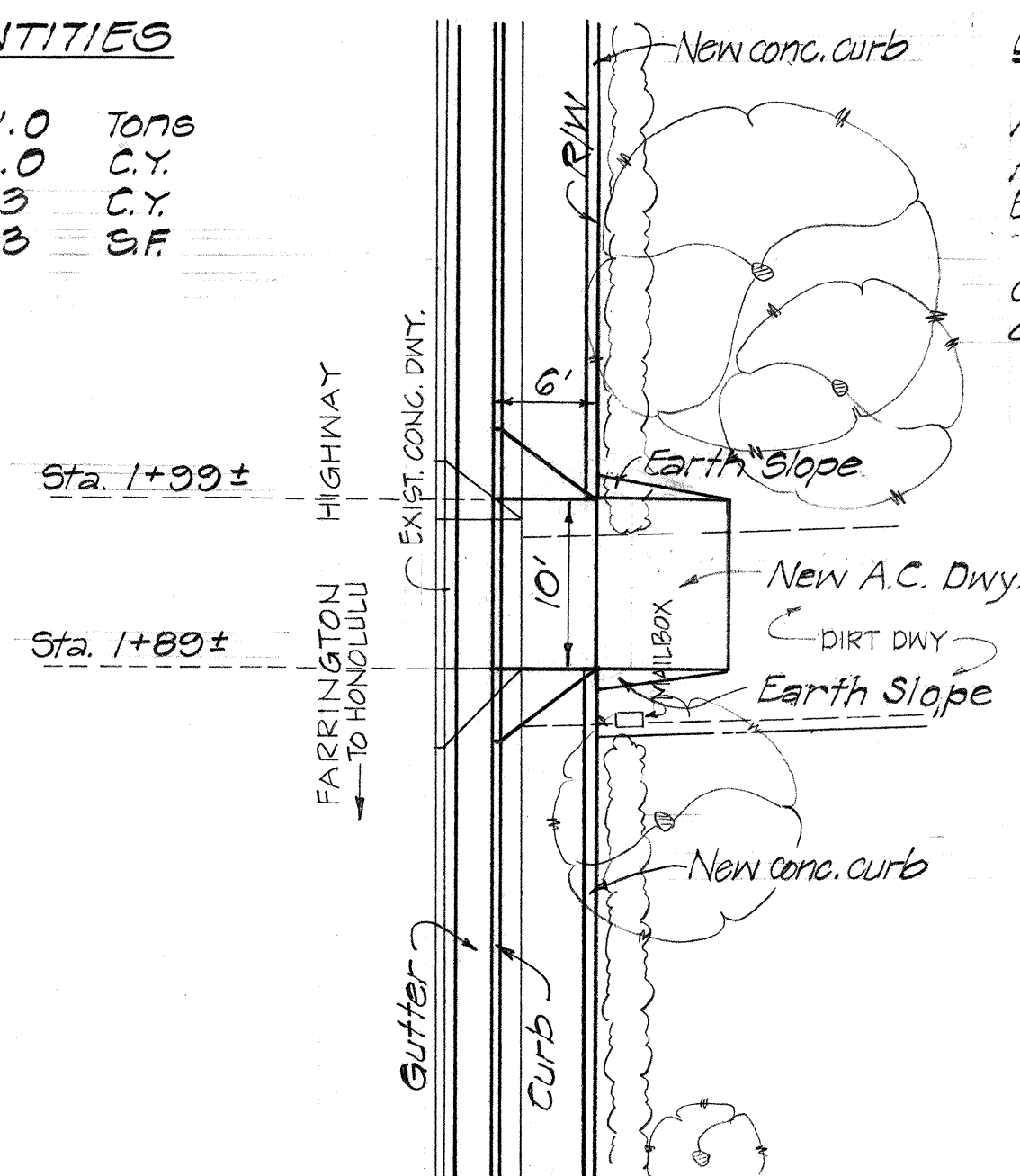
DRIVEWAY AT STA. 21+20 (LEFT)

Note: Refer to note #1 on sheet 33

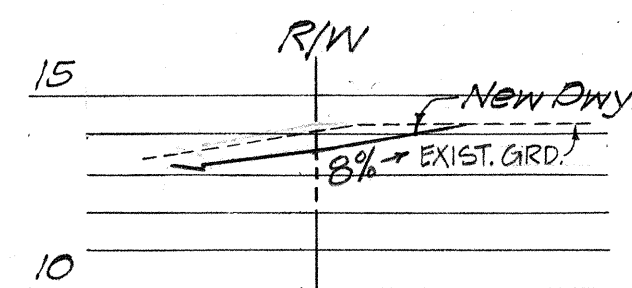
DATE	5/7/79
SURVEY PLOTTED BY	PAUL T. TANIGUCHI
DESIGNED BY	PAUL T. TANIGUCHI
NOTED BY	PAUL T. TANIGUCHI
QUANTITIES BY	PAUL T. TANIGUCHI
CHECKED BY	PAUL T. TANIGUCHI

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.0 Tons
Aggregate Base = 1.0 C.Y.
Excavation = 3 C.Y.
Grassing = 13 S.F.



PLAN T.M.K. 8-5-08:21

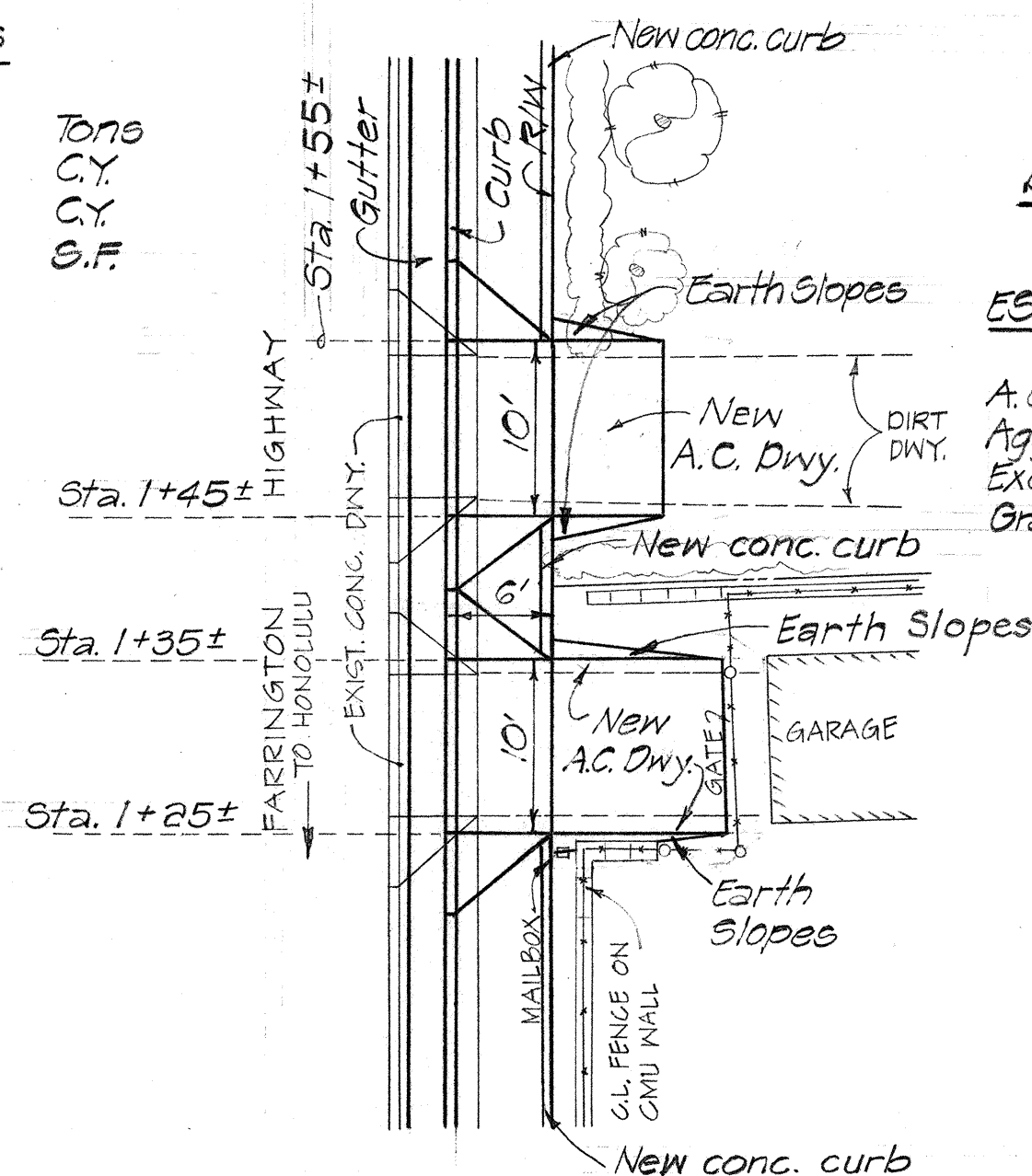


PROFILE

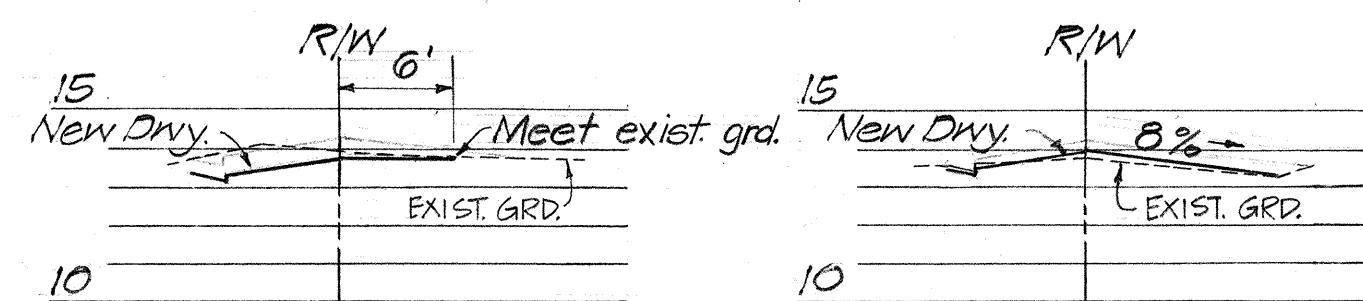
DRIVEWAY AT STA. 1+94 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.1 Tons
Aggregate Base = 1.9 C.Y.
Excavation = 3.0 C.Y.
Grassing = 20 S.F.



PLAN

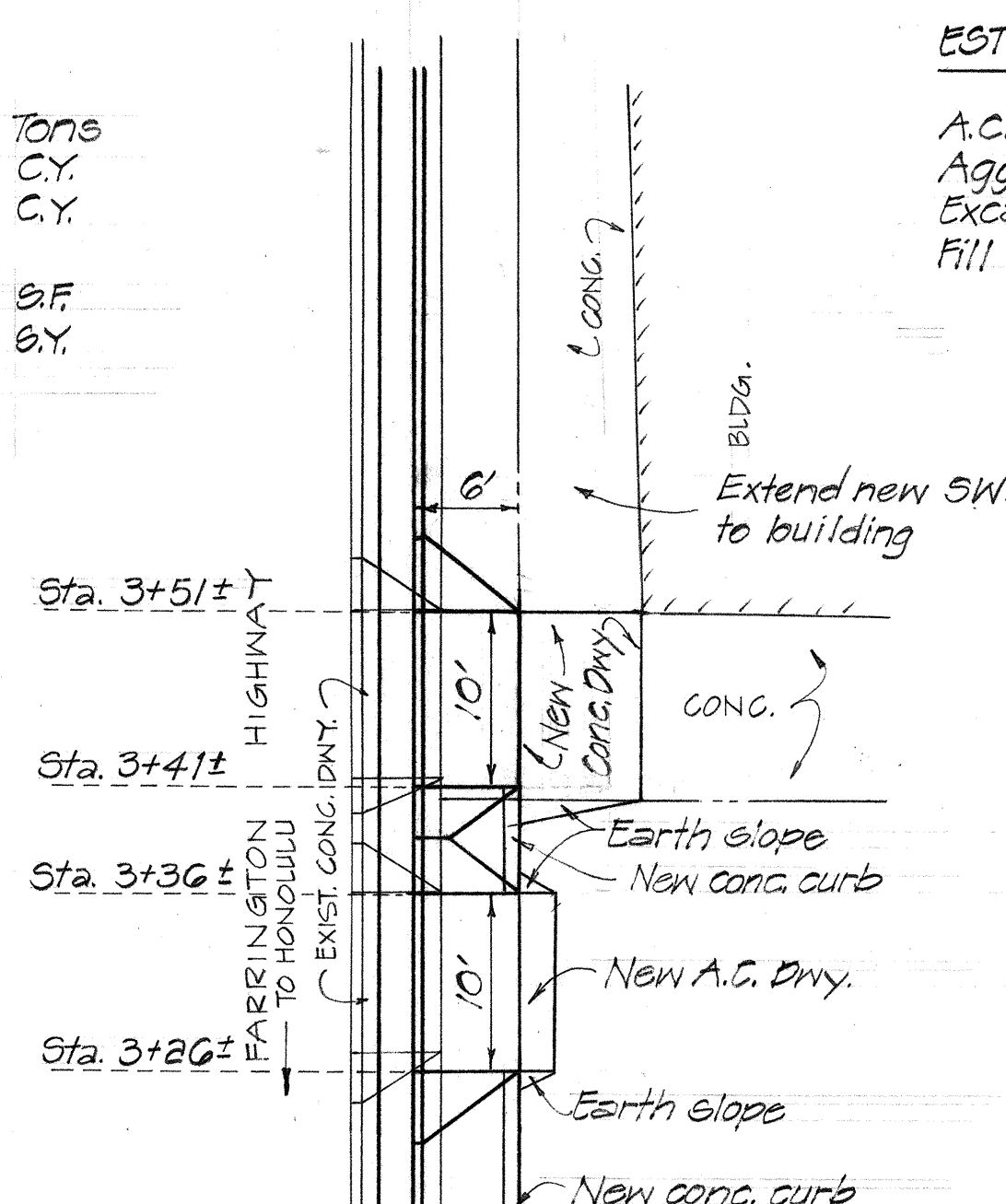


STA. 1+50 STA. 1+30
T.M.K. 8-5-08:20 PROFILES T.M.K. 8-5-08:19

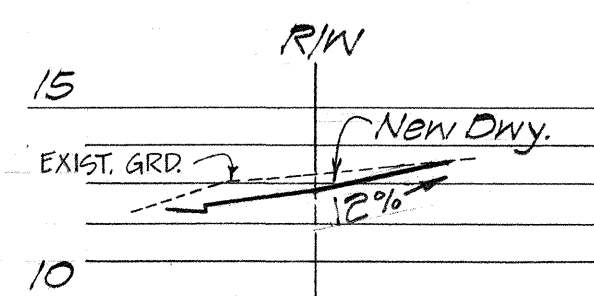
DRIVEWAYS AT STA. 1+30 & 1+50 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.3 Tons
Aggregate Base = 0.2 C.Y.
Excavation = 3 C.Y.
Grassing = 12 S.F.
4" Reinf. conc. dwy. = 7.8 S.F.

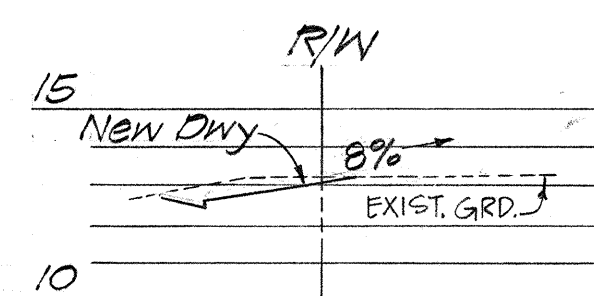


PLAN



STA. 3+26
T.M.K. 8-5-08:54

PROFILES

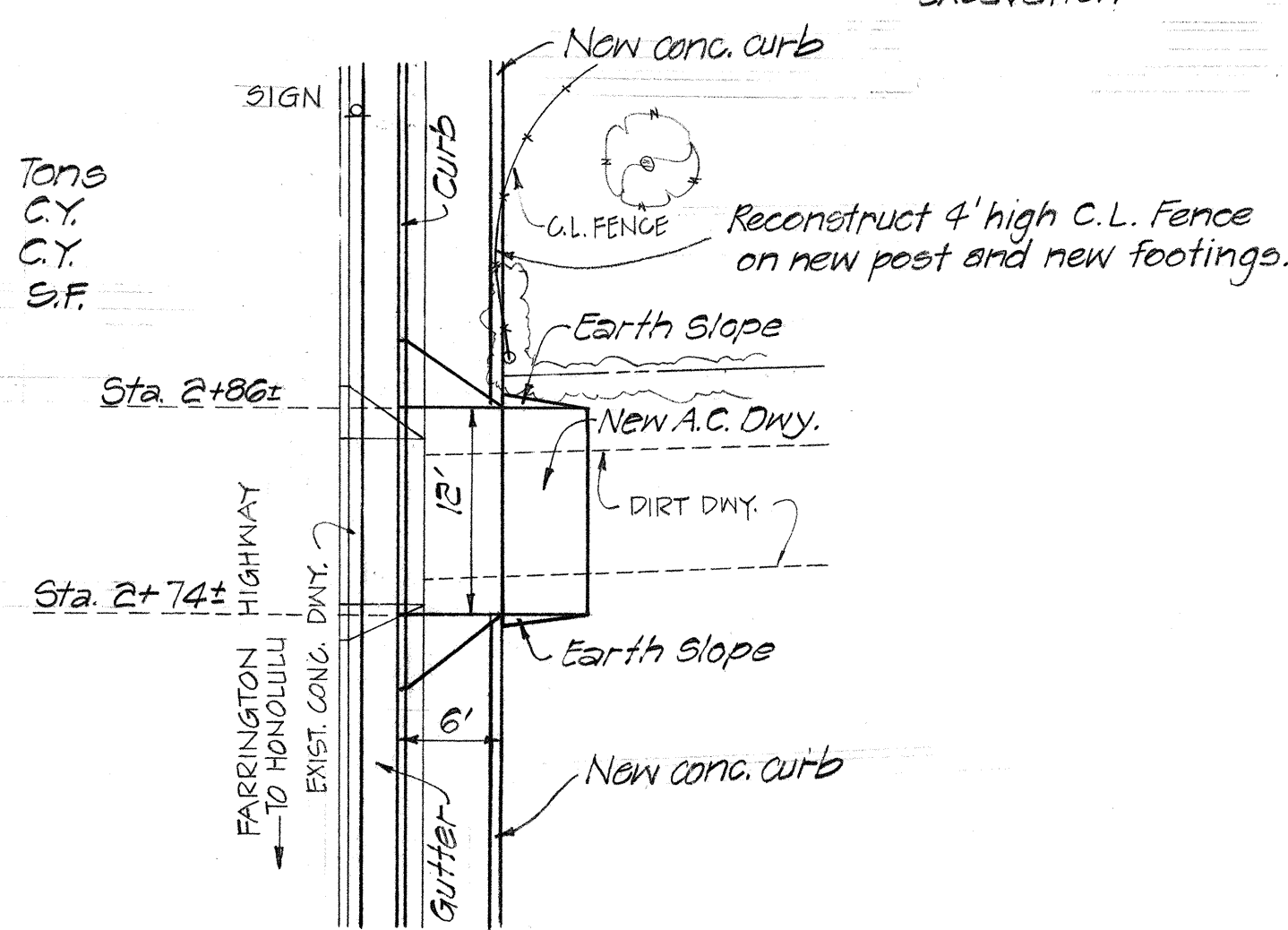


STA. 3+31
T.M.K. 8-5-08:23

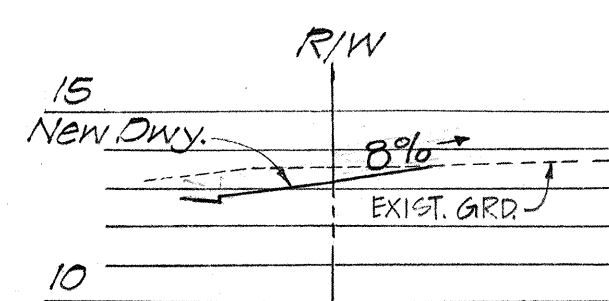
DRIVEWAYS AT STA. 3+31 & 3+46 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.9 Tons
Aggregate Base = 0.8 C.Y.
Excavation = 2 C.Y.
Grassing = 8 S.F.



PLAN T.M.K. 8-5-08:22

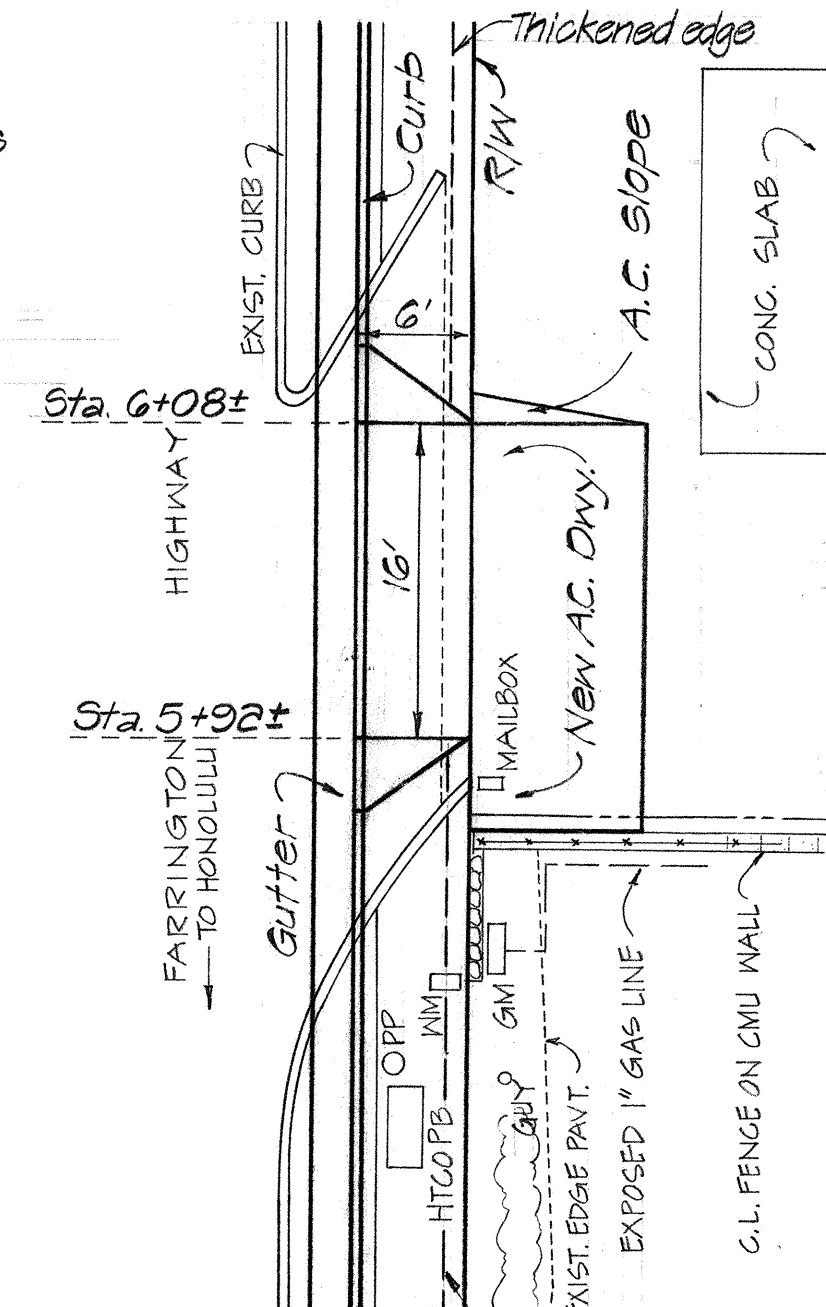


PROFILE

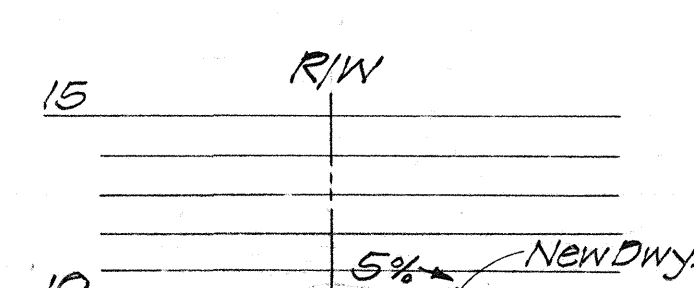
DRIVEWAY AT STA. 2+80 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.5 Tons
Aggregate Base = 2.3 C.Y.
Excavation = 1 C.Y.
Fill = 1 C.Y.



PLAN T.M.K. 8-5-10:2

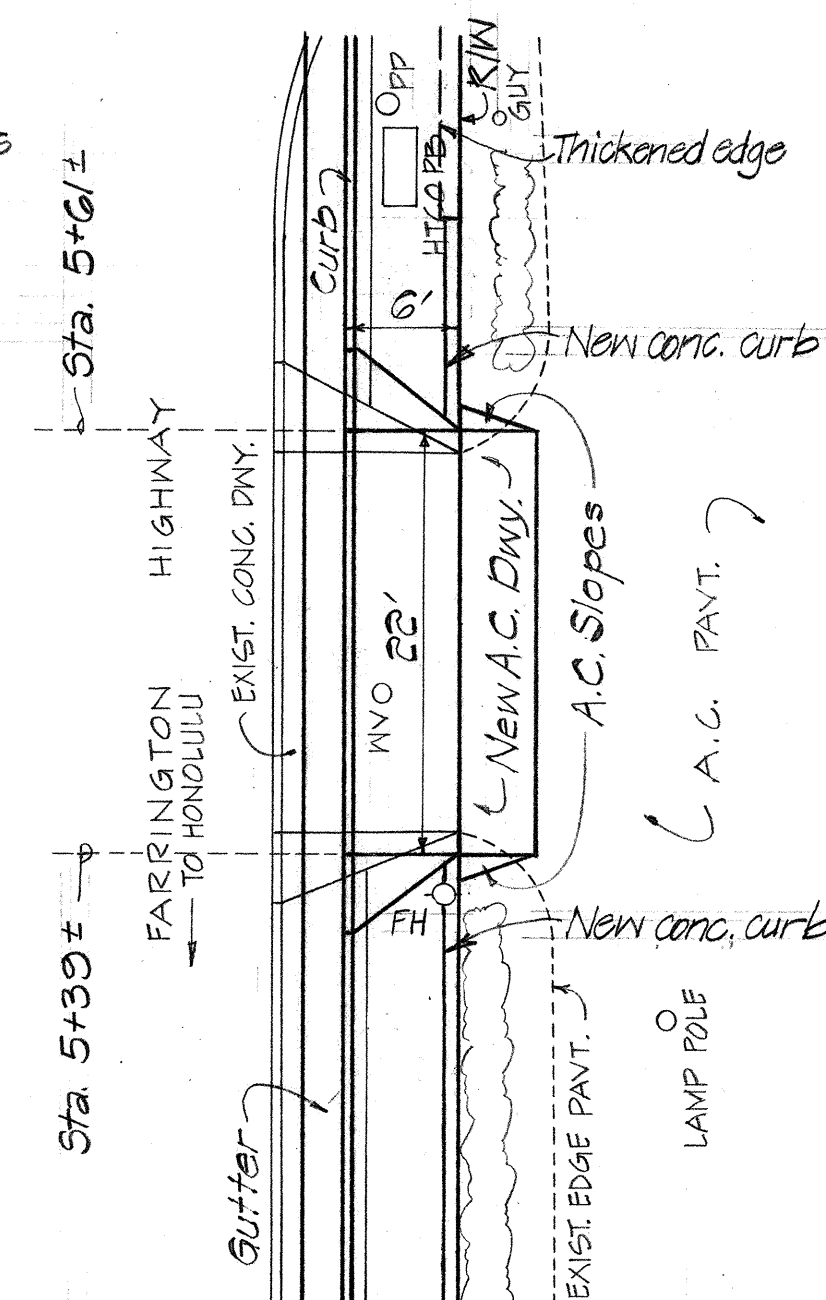


PROFILE

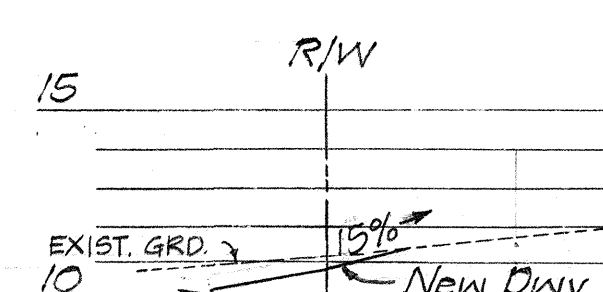
DRIVEWAY AT STA. 6+00 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 1.1 Tons
Aggregate Base = 1.1 C.Y.
Excavation = 3 C.Y.



PLAN T.M.K. 8-5-10:1



PROFILE

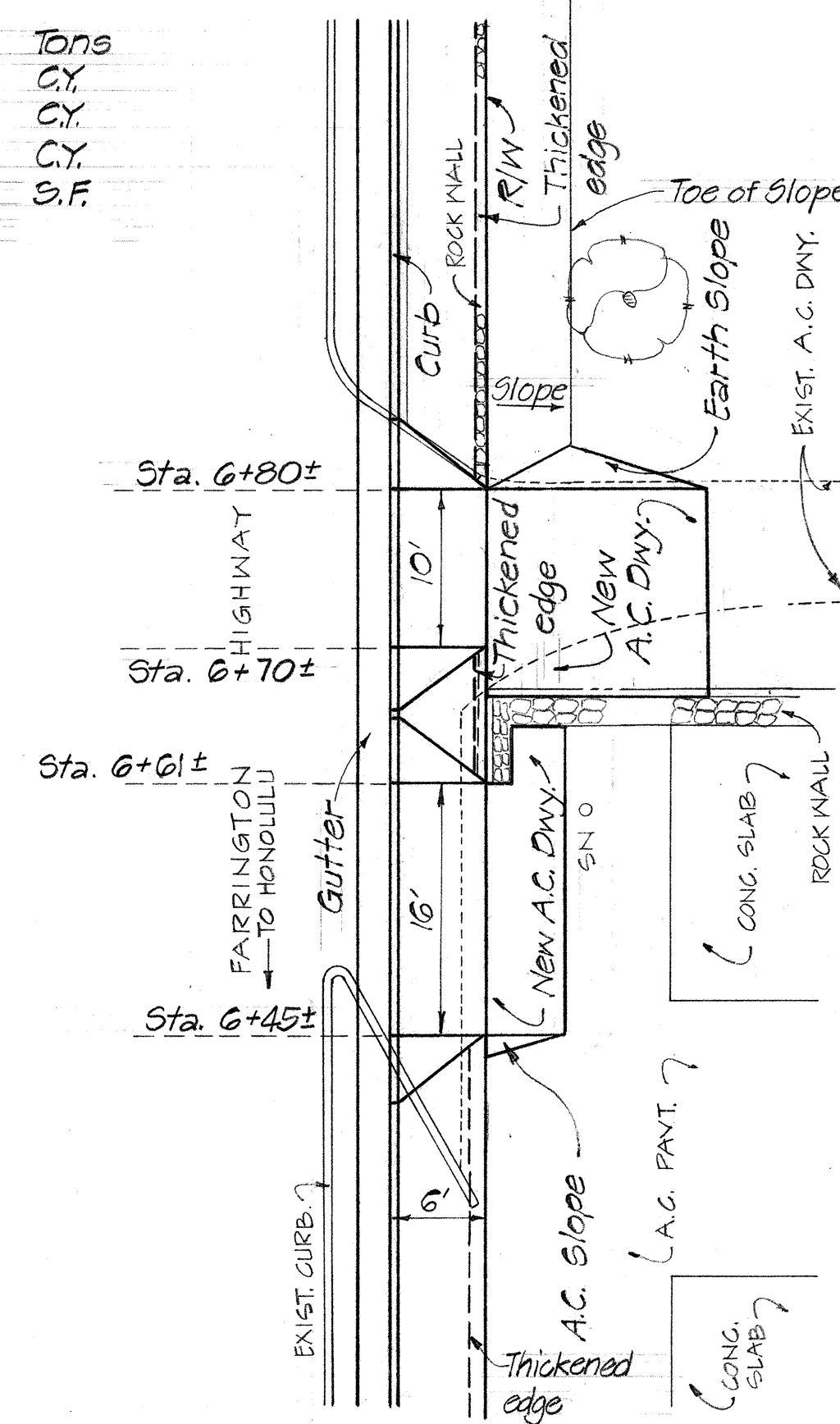
DRIVEWAY AT STA. 5+50 (RIGHT)

ESTIMATED QUANTITIES

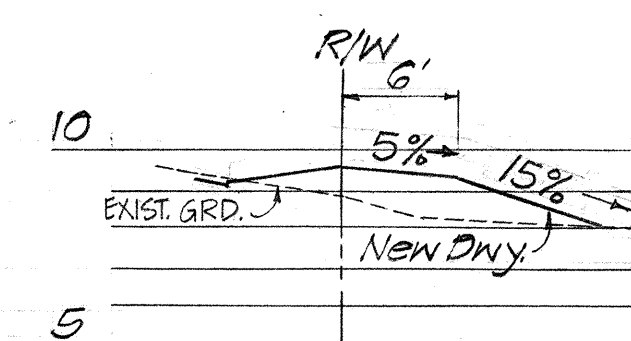
A.C. Mix No. V = 3.5 Tons
Aggregate Base = 3.2 C.Y.
Excavation = 1 C.Y.
Fill = 3 C.Y.
Grassing = 22 S.F.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	38	159

PROJECT NO. 93B-01-75



PLAN



STA. 6+75

T.M.K. 8-5-10:3

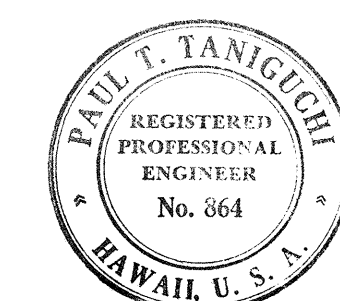
PROFILES

STA. 6+53

T.M.K. 8-5-10:2

DRIVEWAYS AT STA. 6+53 & 6+75 (RIGHT)

Note: Refer to note #1 on Sheet 33.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi
REGISTERED PROFESSIONAL ENGINEER
No. 364
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
RIGHT SIDE

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET

PROJECT NO. 93B-01-75, UNIT I

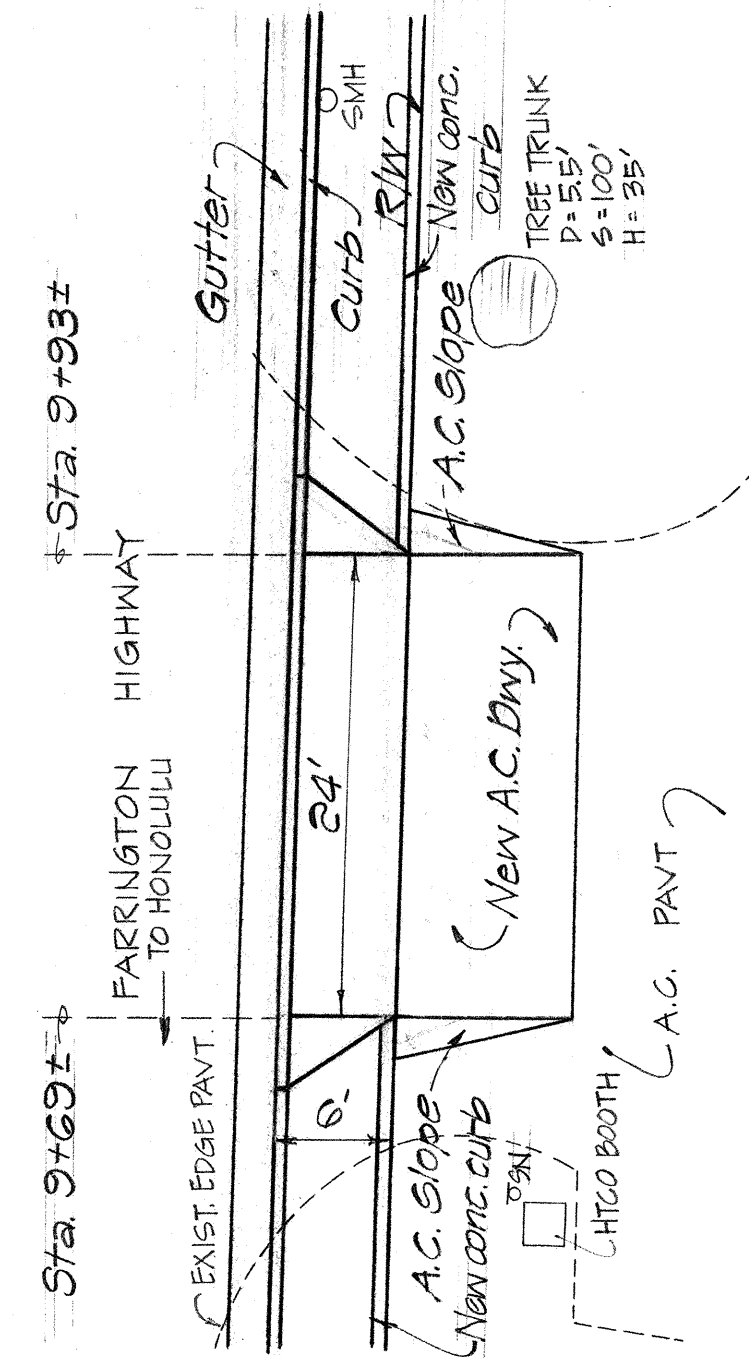
SCALE: 1"=10'

DATE:

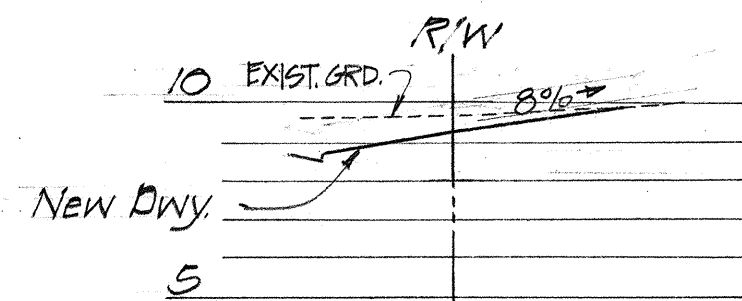
SHEET NO. 18 OF 29 SHEETS

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.9 Tons
Aggregate Base = 2.0 C.Y.
Excavation = 7 C.Y.



PLAN T.M.K. 8-5-10:58



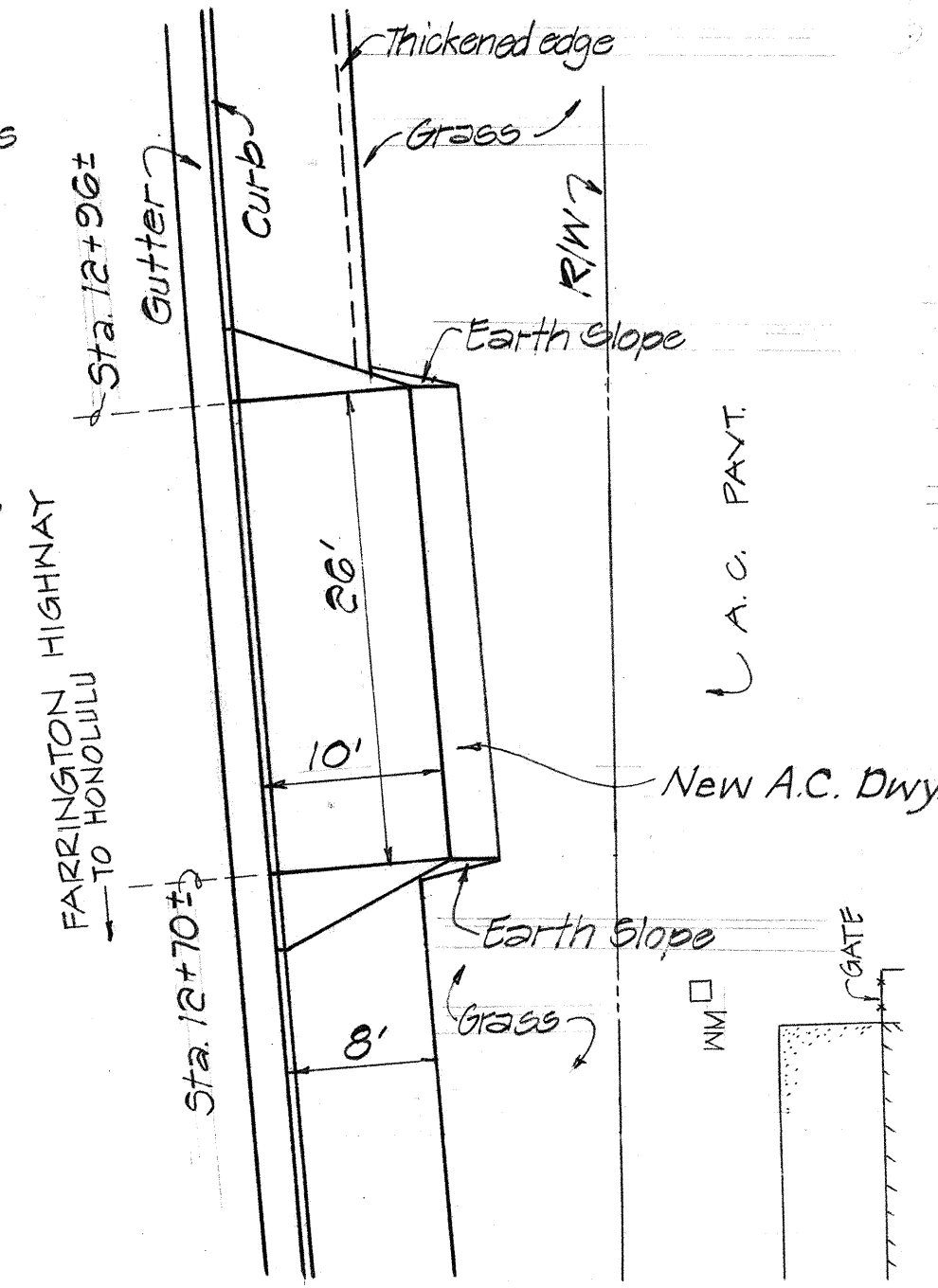
PROFILE

DRIVEWAY AT STA. 9+31 (RIGHT)

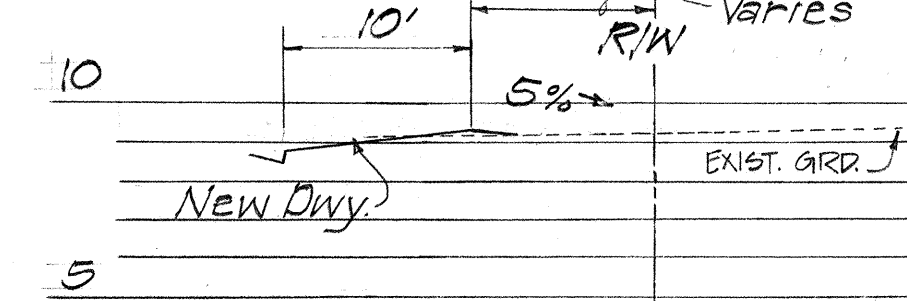
ESTIMATED QUANTITIES

A.C. Mix No. V = 0.9 Tons
Aggregate Base = 0.8 C.Y.
Excavation = 0.9 C.Y.
Grass = 0.9 S.F.

Note: Quantities, above, are for work on the driveway ramp within the R/W.



PLAN T.M.K. 8-5-10:6



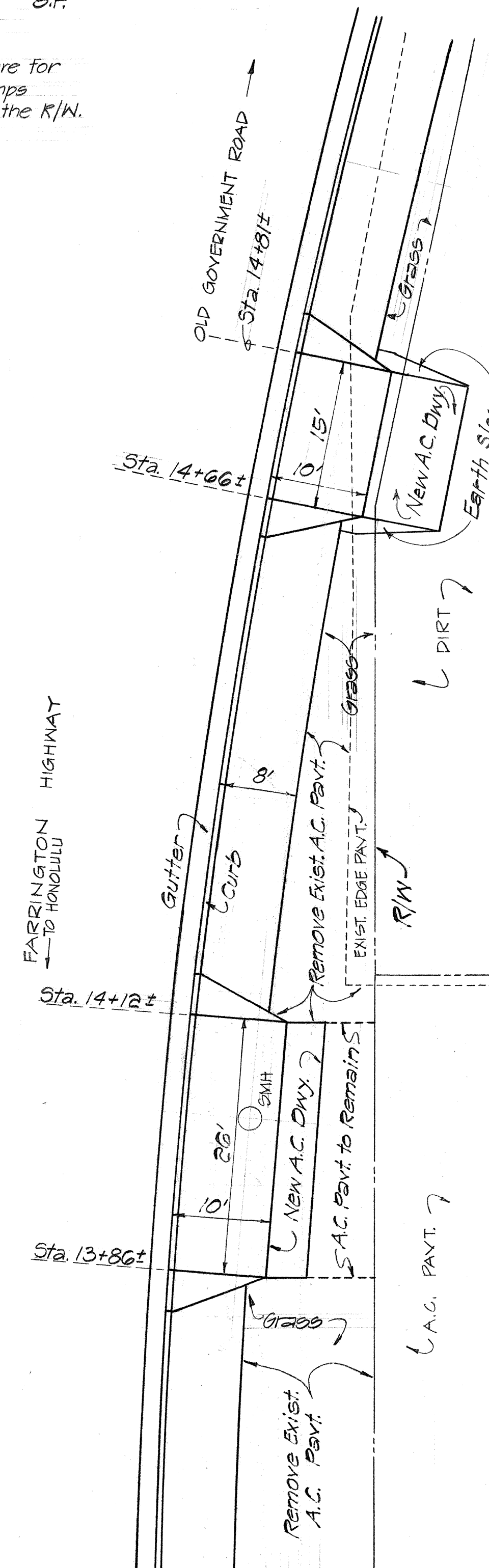
PROFILE

DRIVEWAY AT STA. 12+83 (RIGHT)

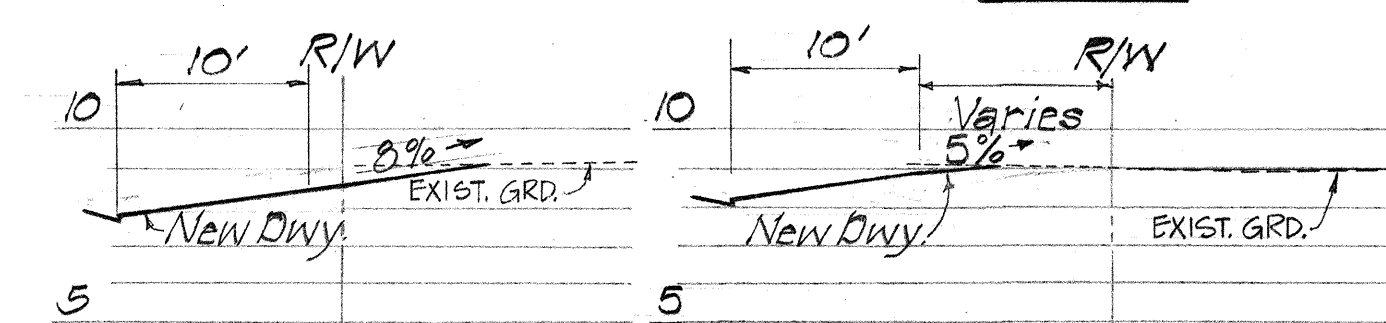
ESTIMATED QUANTITIES

A.C. Mix No. V = 3.1 Tons
Aggregate Base = 2.8 C.Y.
Excavation = 6 C.Y.
Grass = 14 S.F.

Note: Quantities, above, are for work on the driveway ramps within as well as outside the R/W.



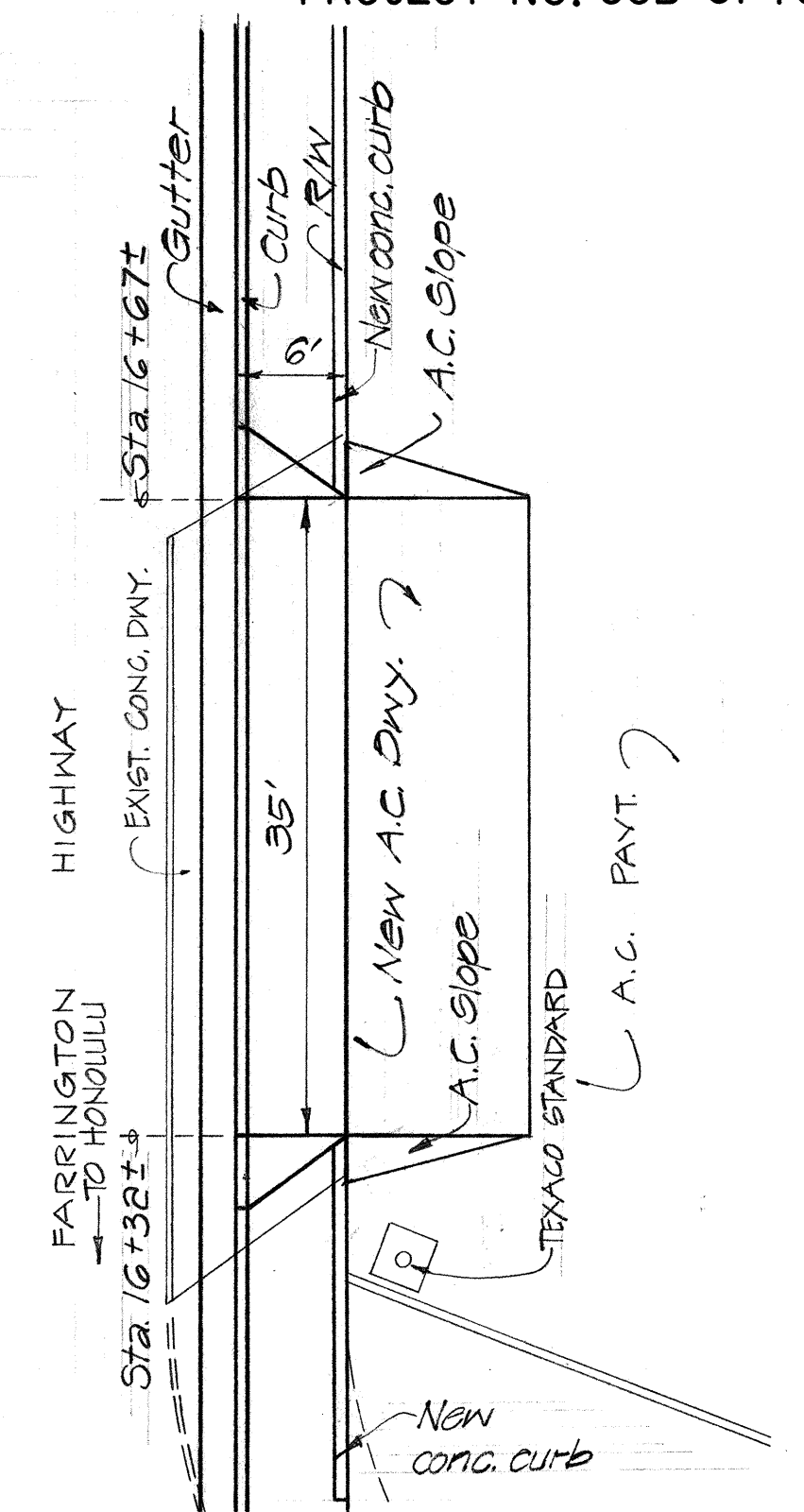
PLAN



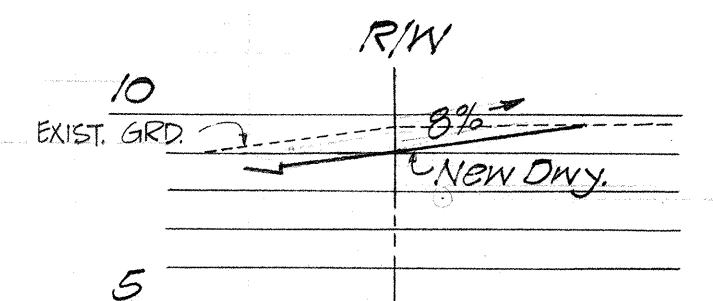
STA. 14+74
T.M.K. 8-5-10:8
PROFILES
STA. 13+99
T.M.K. 8-5-10:7
DRIVEWAYS AT STA. 13+99 & 14+74 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 4.5 Tons
Aggregate Base = 4.5 C.Y.
Excavation = 11 C.Y.



PLAN T.M.K. 8-5-18:1



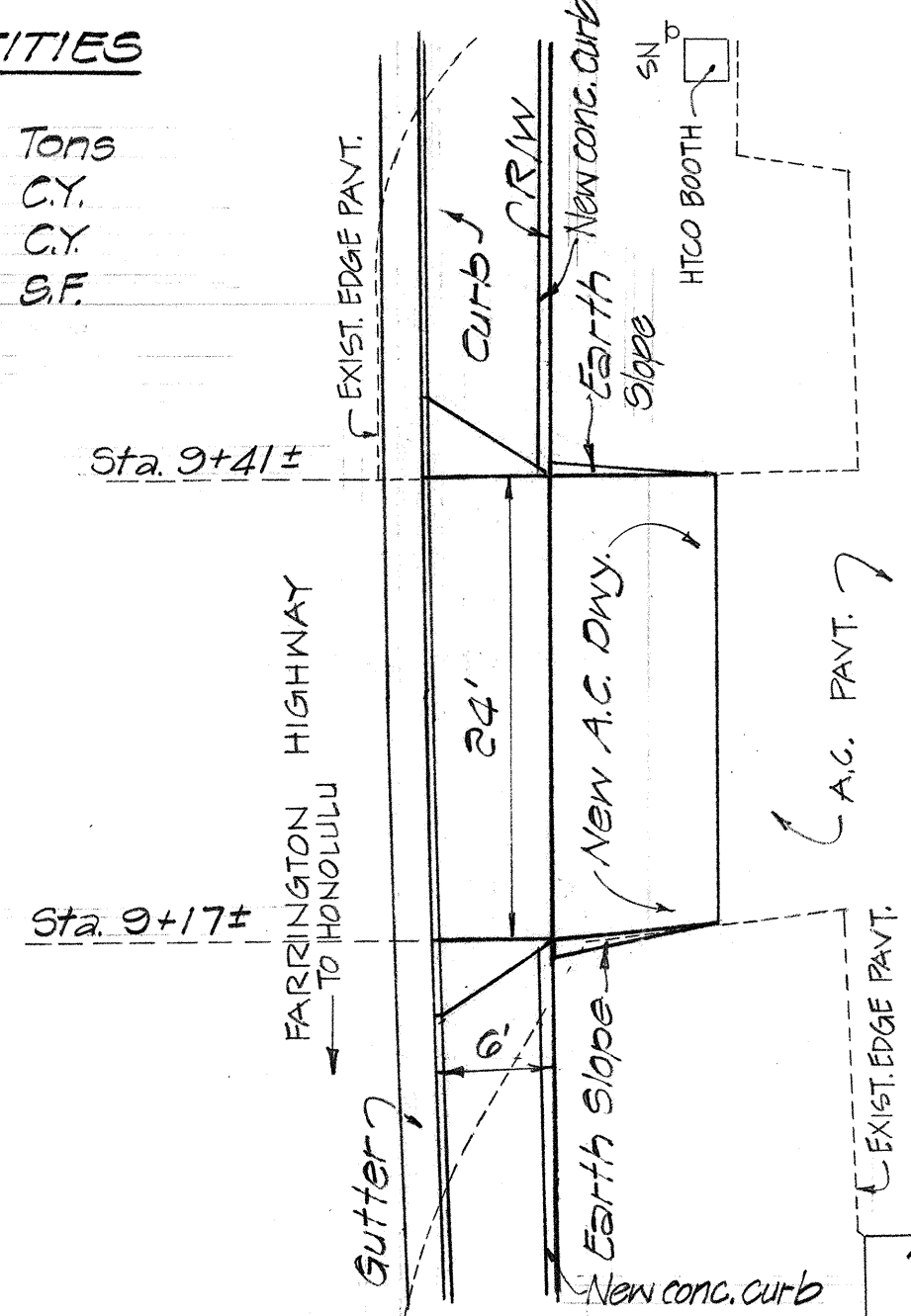
PROFILE

DRIVEWAY AT STA. 16+50 (RIGHT)

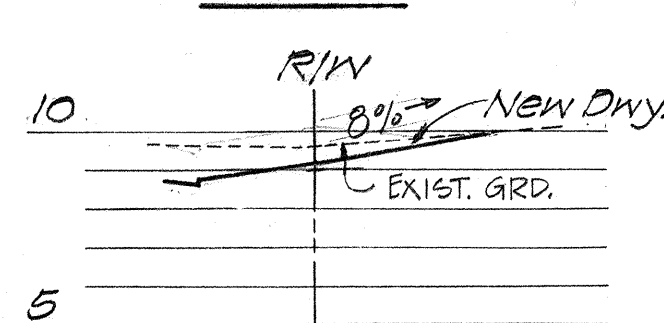
Note: Refer to note #1 on sheet 33.

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.8 Tons
Aggregate Base = 2.6 C.Y.
Excavation = 6 C.Y.
Grass = 14 S.F.



PLAN T.M.K. 8-5-10:58

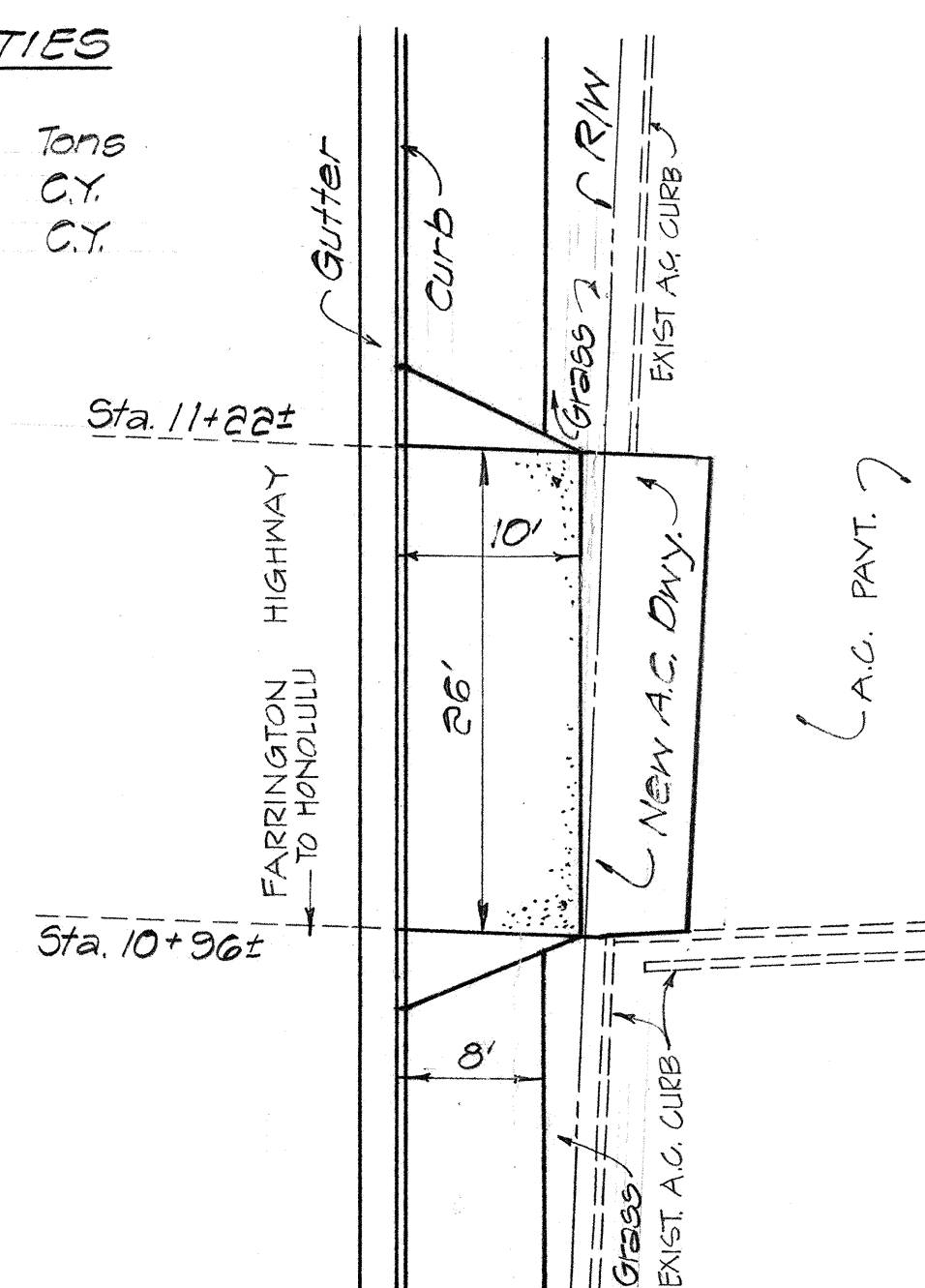


PROFILE

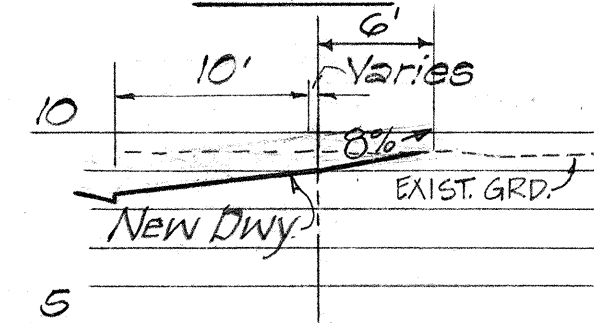
DRIVEWAY AT STA. 9+29 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. V = 2.8 Tons
Aggregate Base = 2.0 C.Y.
Excavation = 5 C.Y.

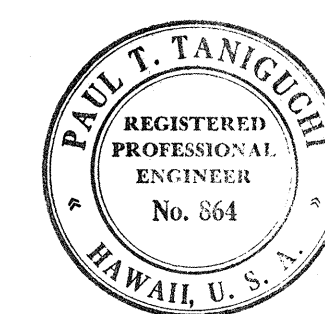


PLAN T.M.K. 8-5-10:4



PROFILE

DRIVEWAY AT STA. 11+09 (RIGHT)



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Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

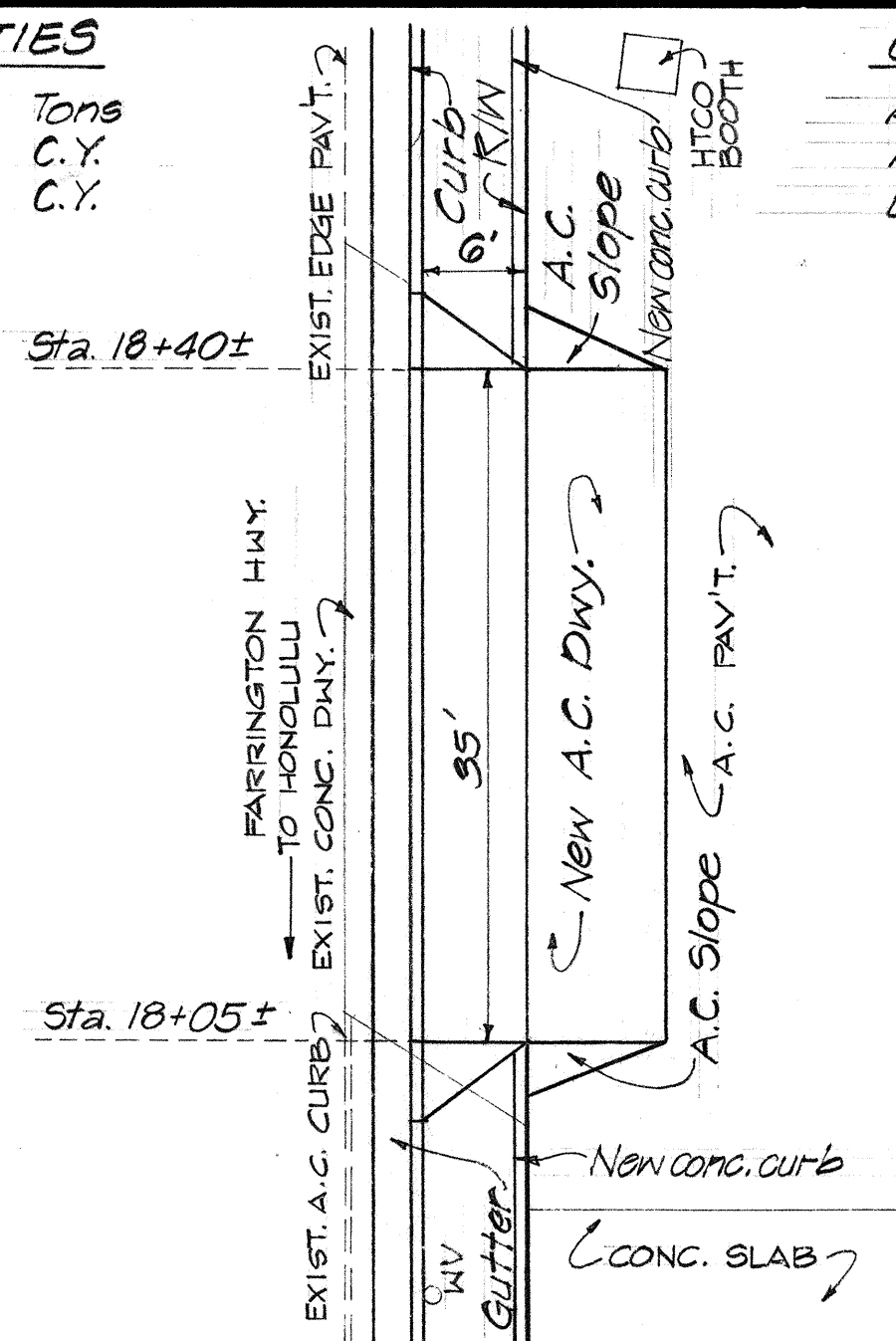
**DRIVEWAY DETAILS
RIGHT SIDE**

FARRINGTON HIGHWAY WIDENING
LUALUAEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10'
DATE: _____
SHEET NO. 19 OF 29 SHEETS

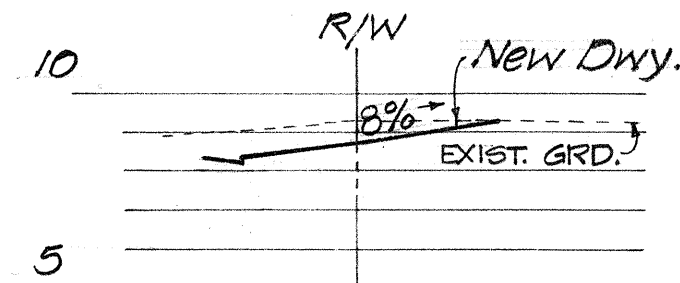
DATE	NO.
ORIGINAL	
PLAN	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

ESTIMATED QUANTITIES

A.C. Mix No. II = 3.6 Tons
Aggregate Base = 3.4 C.Y.
Excavation = 9 C.Y.



PLAN T.M.K. 8-5-12:1

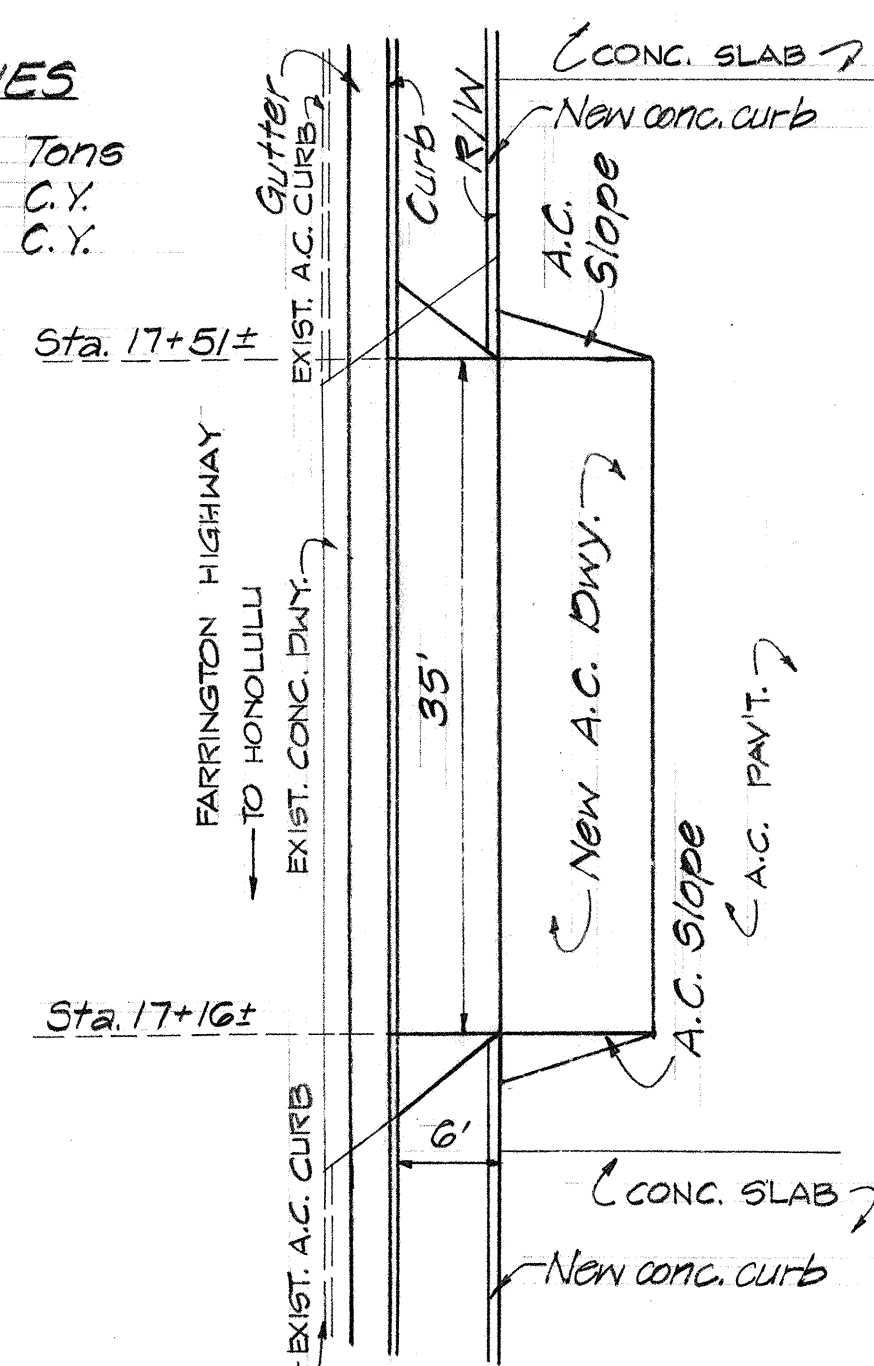


PROFILE

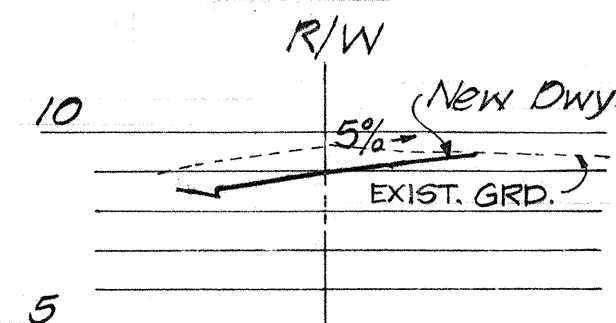
DRIVEWAY AT STA. 18+23 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. II = 3.9 Tons
Aggregate Base = 3.6 C.Y.
Excavation = 9 C.Y.



PLAN T.M.K. 8-5-12:1

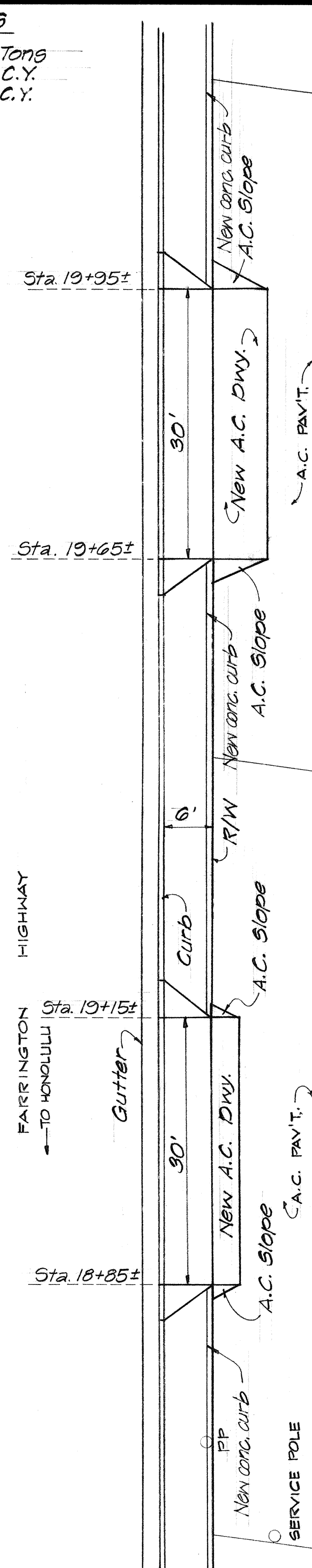


PROFILE

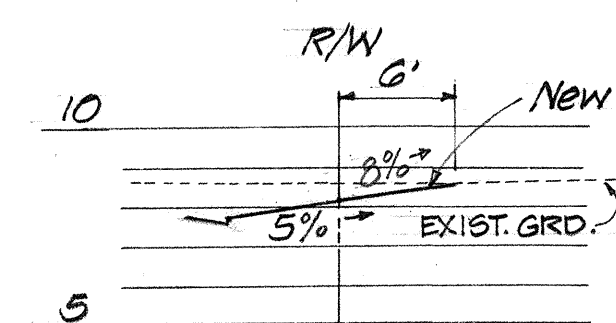
DRIVEWAY AT STA. 17+34 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. II = 3.7 Tons
Aggregate Base = 3.4 C.Y.
Excavation = 7 C.Y.



PLAN



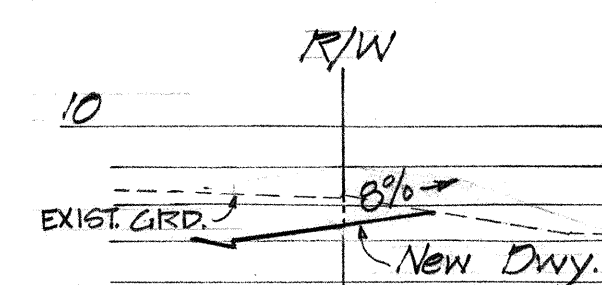
PROFILE

DRIVEWAYS AT STA. 19+00 & 19+80 (RIGHT)

ESTIMATED QUANTITIES

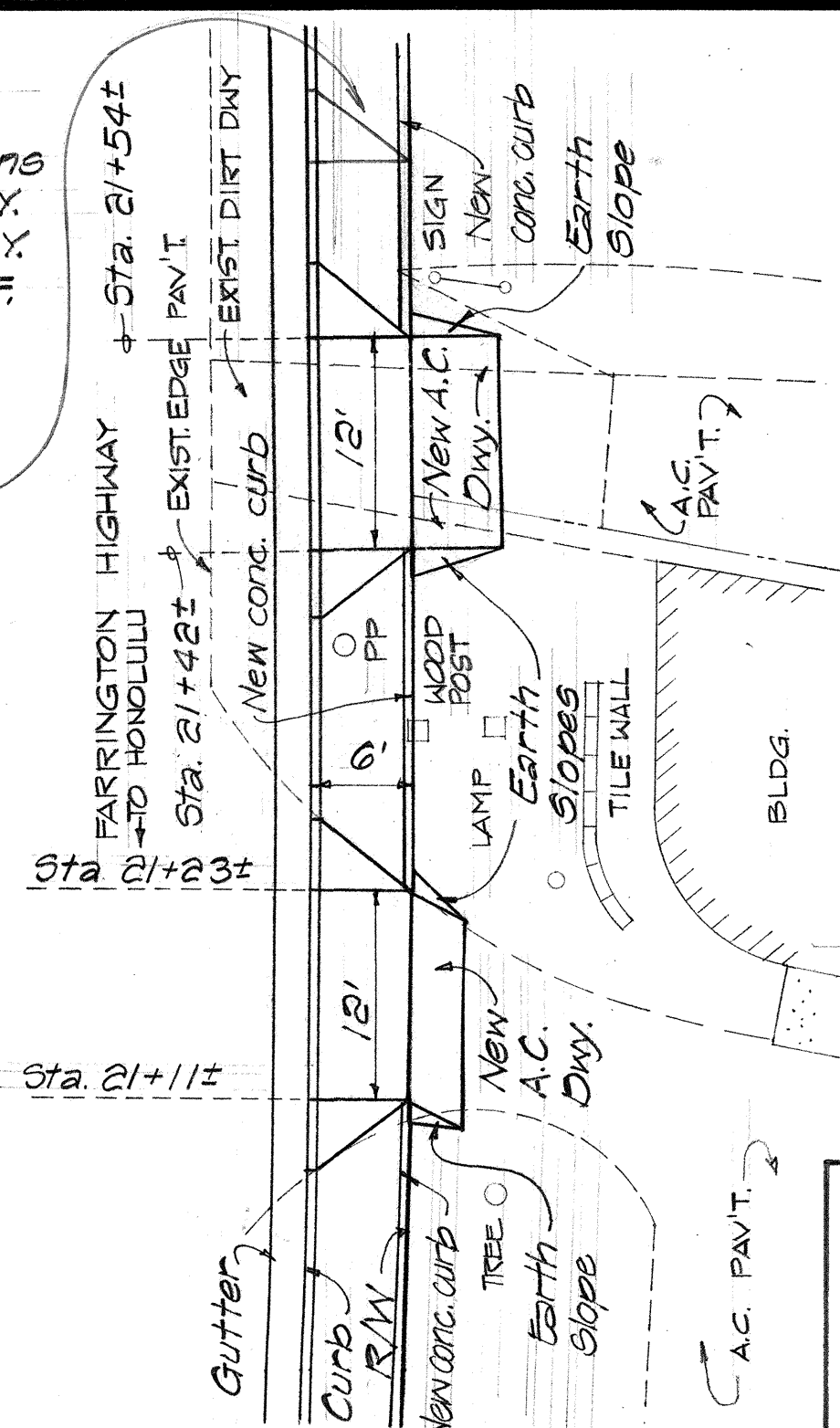
A.C. Mix No. II = 1.4 Tons
Aggregate Base = 1.2 C.Y.
Excavation = 4 C.Y.
Grass seeding = 10 S.F.

(C.C.O. #38)
Widen driveway by 10',
Remove portions of concrete
wall, sidewalk and curb,
Make smooth riding connection
between the parking area and
extended driveway.
For additional details see this
sheet.

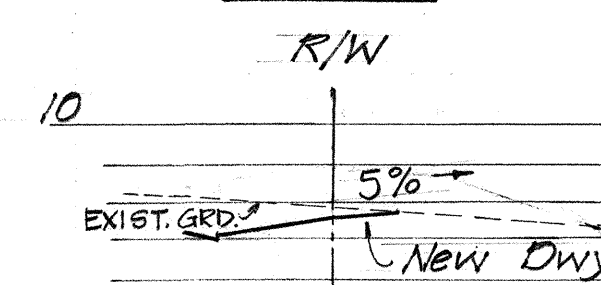


STA. 21+48
T.M.K. 8-5-12:6

DRIVEWAYS AT STA. 21+17 & 21+48 (RIGHT)

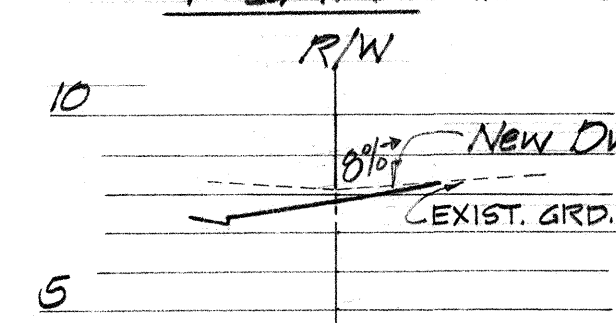


PLAN



STA. 21+17
T.M.K. 8-5-12:5

PLAN T.M.K. 8-5-12:4



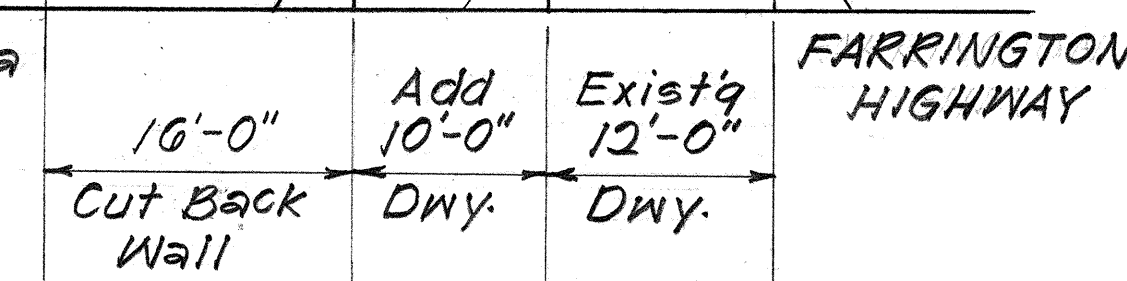
PROFILE

DRIVEWAY AT STA. 20+60 (RIGHT)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	40	159

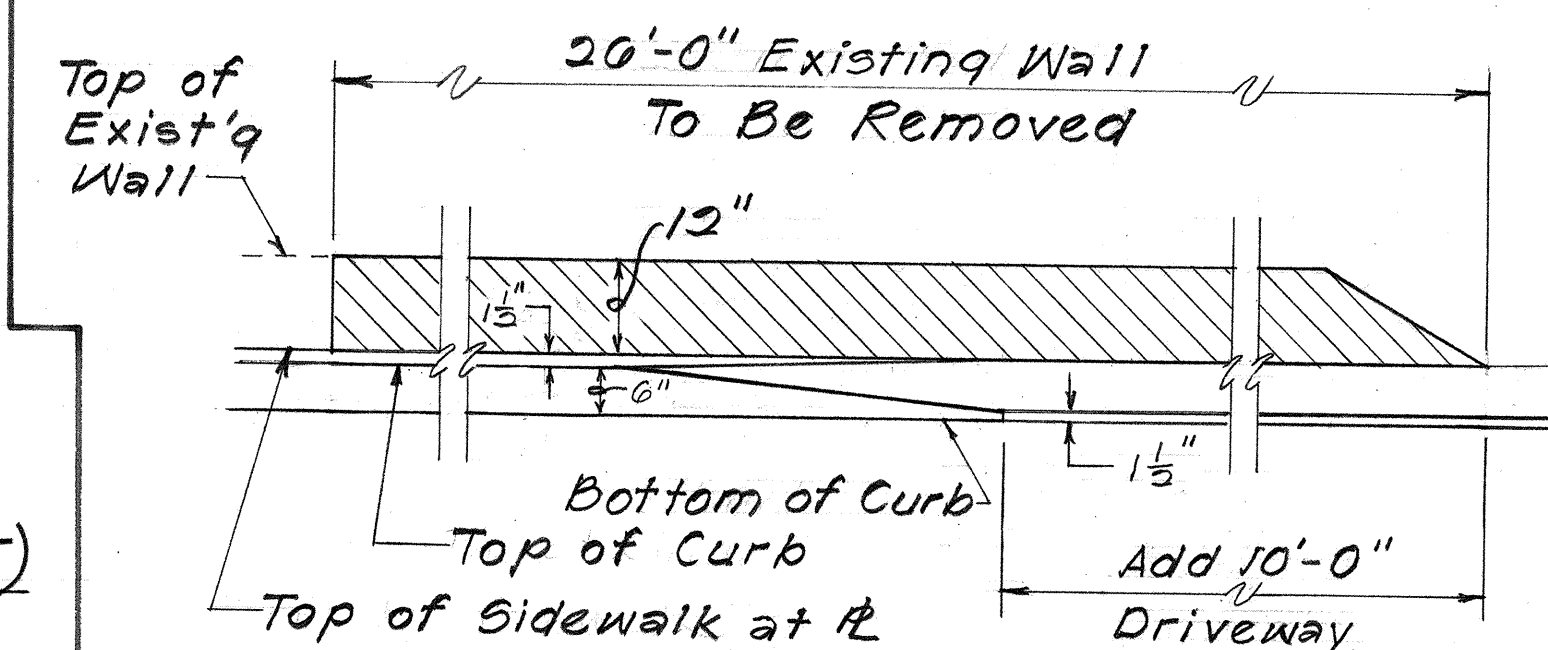
PROJECT NO. 93B-01-75

Existing wall to be cut flush with sidewalk
Slope pavement to meet driveway
Slope



PLAN

Scale: 1"=10'

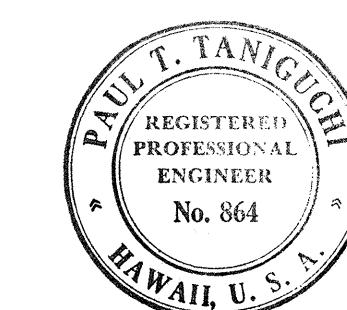


ELEVATION VIEW

Scale: 1/2"=1'-0"

EXTENDED DRIVEWAY AT 85-786 FARRINGTON HIGHWAY STA. 21+48, RT. CCO #38

Note: Refer to note #1 on sheet 33.



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Paul T. Taniguchi

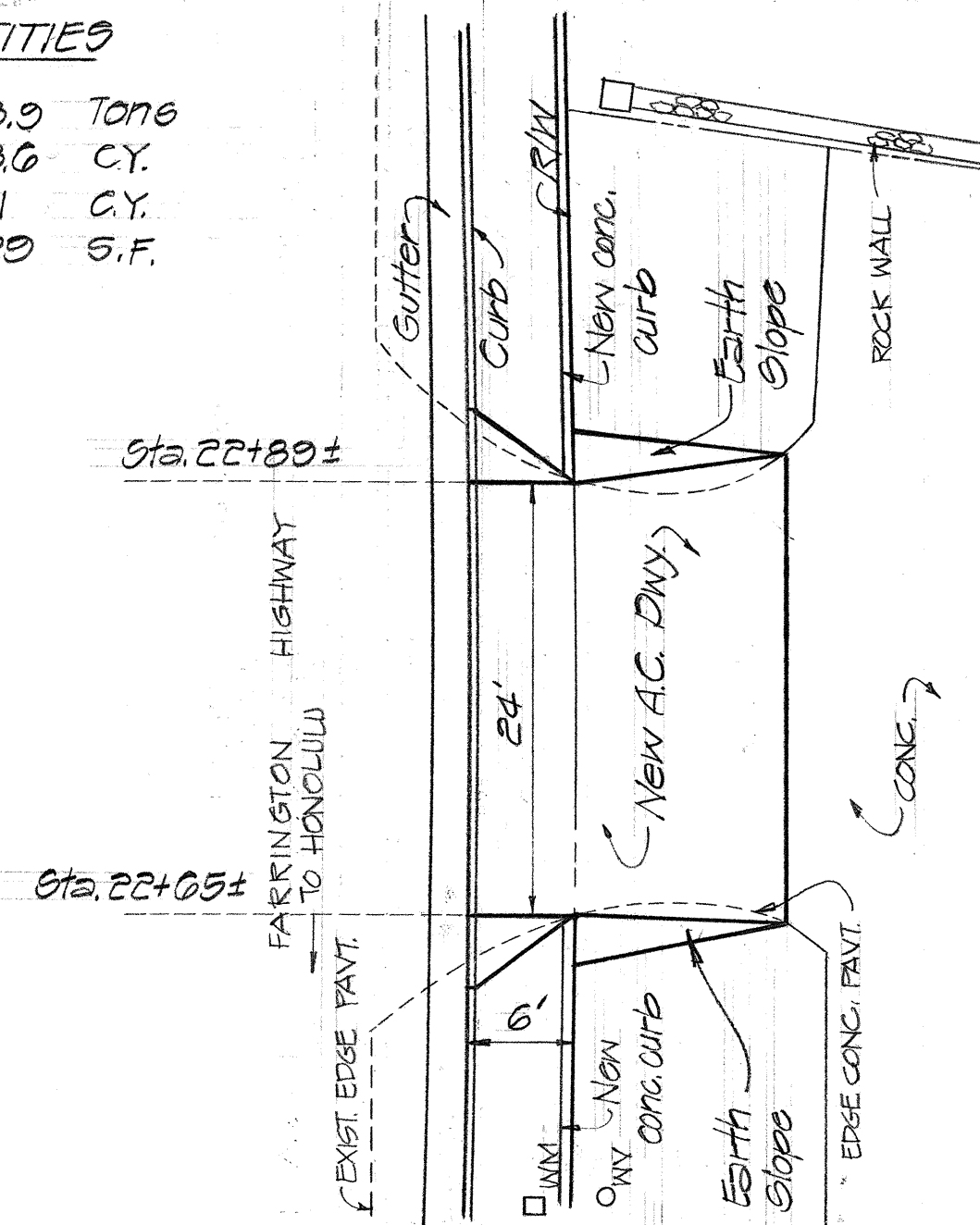
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
RIGHT SIDE

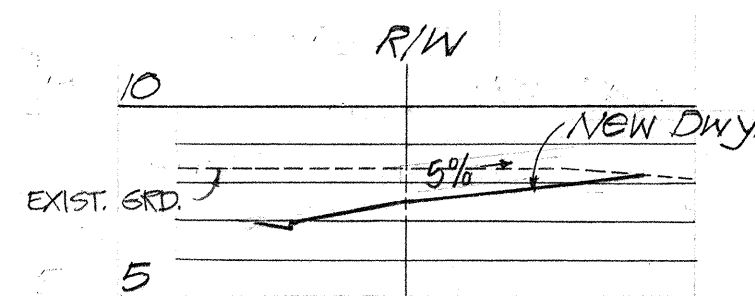
FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE: _____

SHEET NO. 20 OF 29 SHEETS

A.C. Mix No. V = 3.9 Tons
Aggregate Base = 3.6 CY.
Excavation = 11 C.Y.
Grassing = 29 S.F.

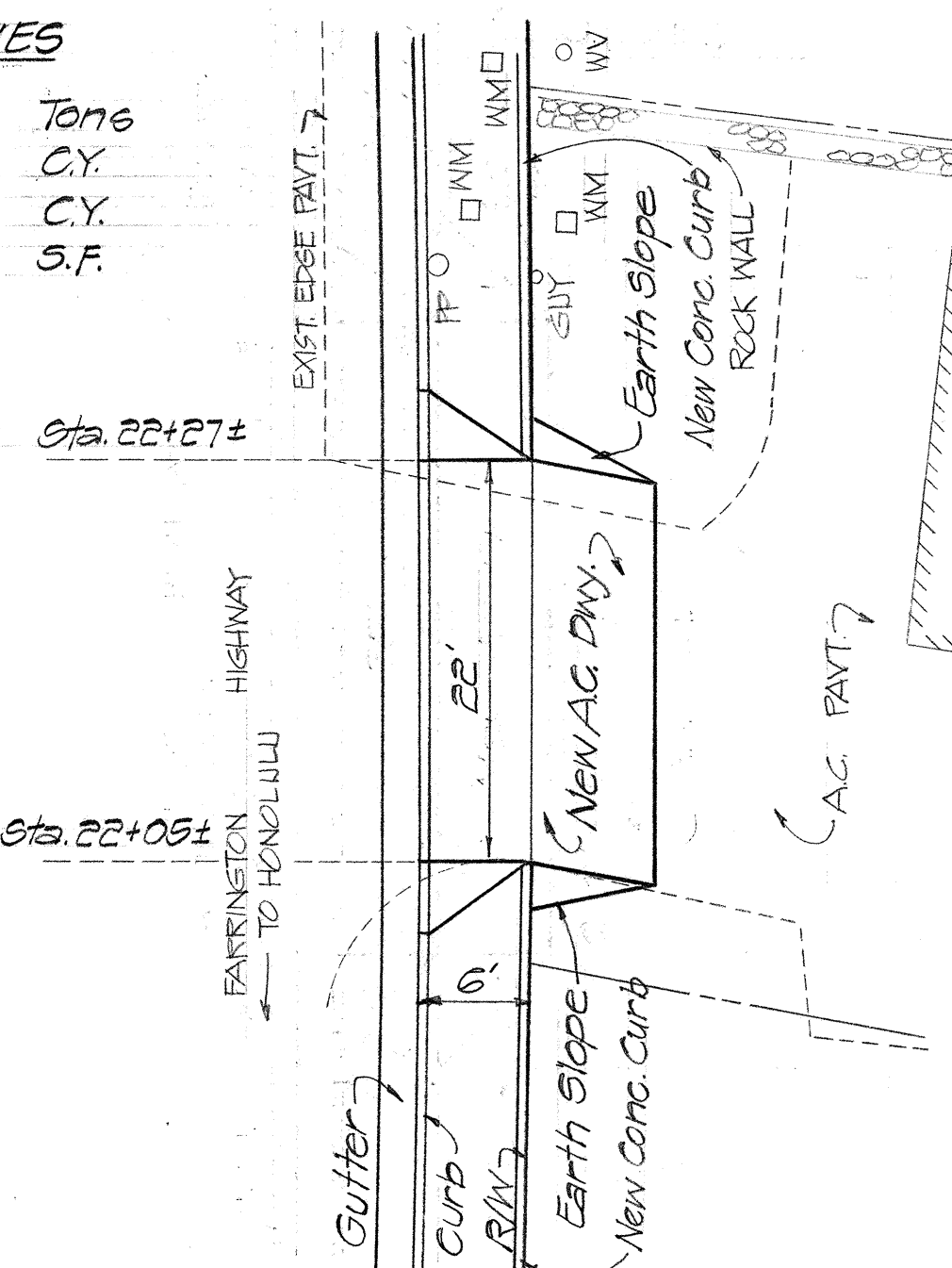


PLAN T.M.K. 8-5-12:8

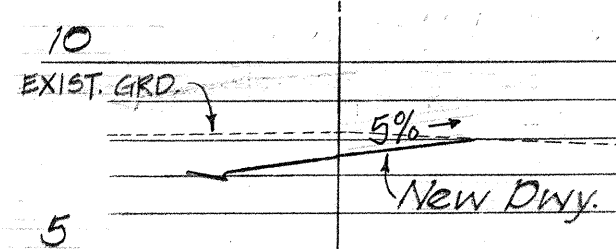


ESTIMATED QUANTITIES

A.C. Mix No. V = 2.0 Tons
Aggregate Base = 1.9 C.Y.
Excavation = 5 C.Y.
Grassing = 13 S.F.

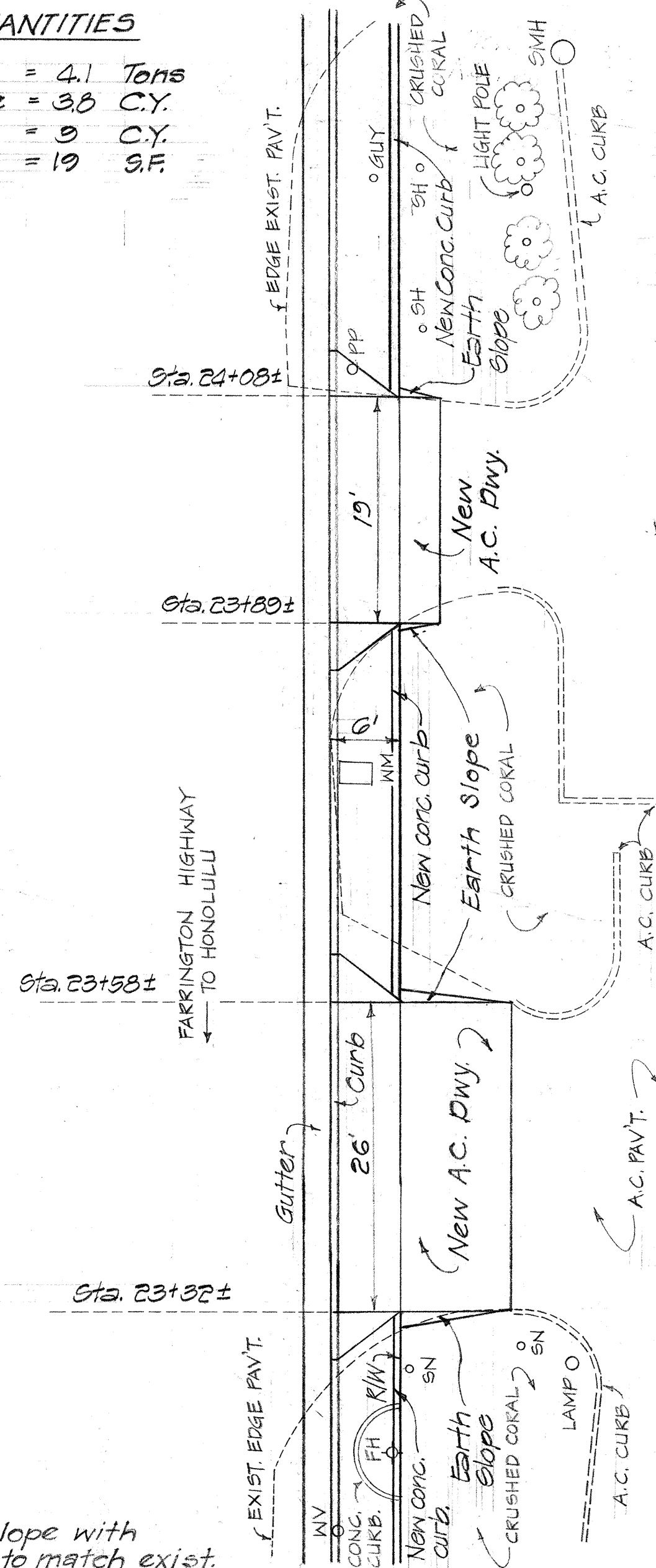


PLAN T.M.K. 8-5-12:7

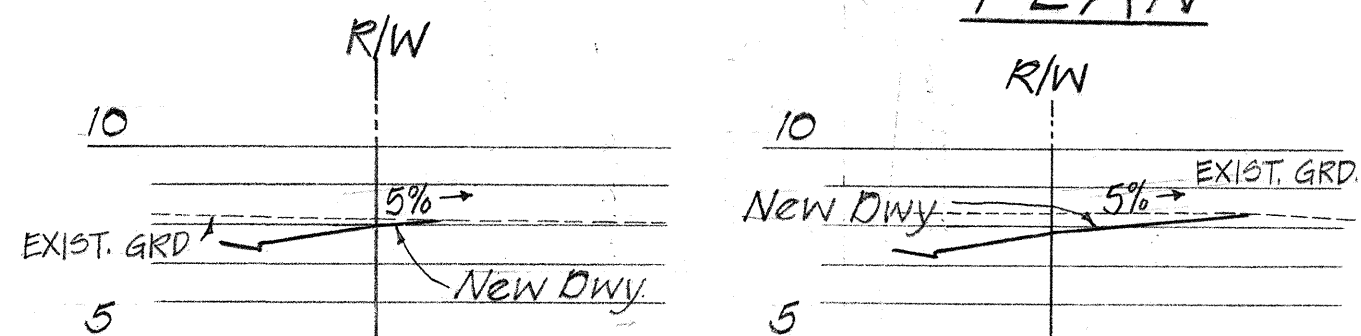


ESTIMATED QUANTITIES

A.C. Mix No. V = 4.1 Tons
Aggregate Base = 38 C.Y.
Excavation = 9 C.Y.
Grassing = 19 S.F.



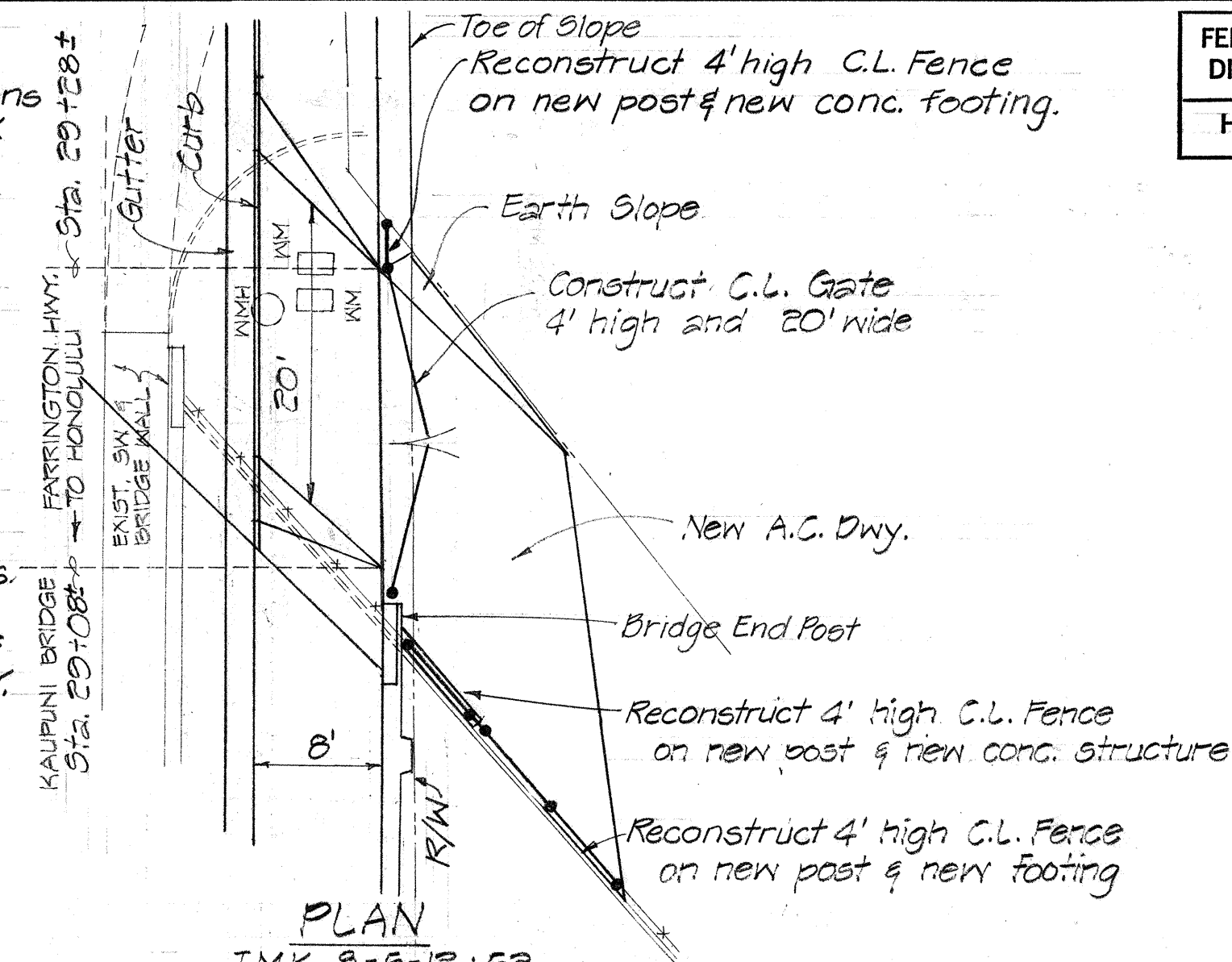
PLAN



PROFILE

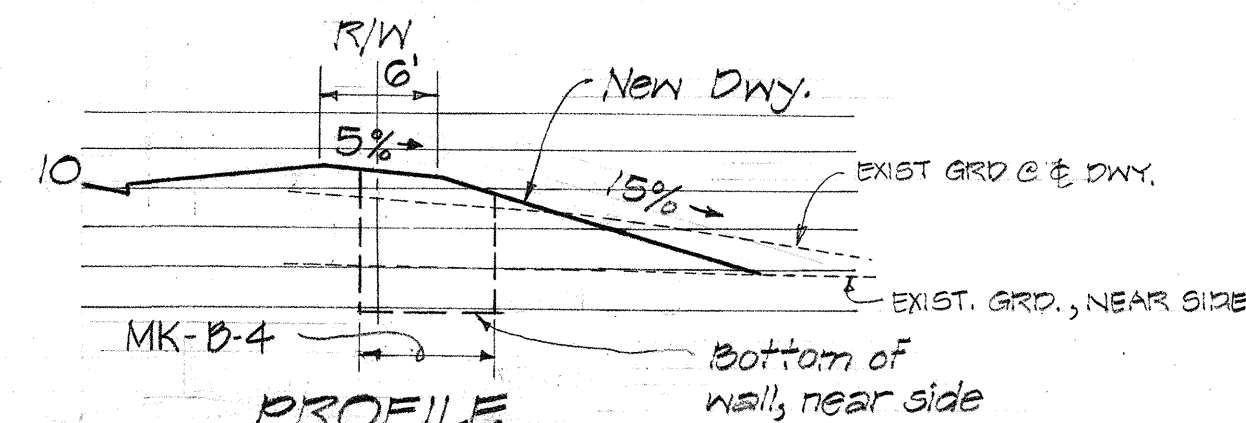
DRIVEWAYS AT STA. 23+45 & 23+99 (RIGHT)

A.C. Mix No. IV = 6.0 Tons
Aggregate Base = 55 C.Y.
Exc. = 1 C.Y.
Fill = 7 C.Y.
Construct C.L. Gate 4' high and 20' wide. = 1 Ea.
Reconstruct 4' high C.L. Fence on new post and new structure. = 7 L.F.
Reconstruct 4' high C.L. Fence on new post and new footing. = 14 L.F.
Cl. "A" conc. = 1.1 C.Y.
Reinf. steel = 63 Lbs.
Str. Exc. = 1.1 C.Y.
Grassing = 18 S.F.
Filter mat' = 55 C.Y.



PLAN

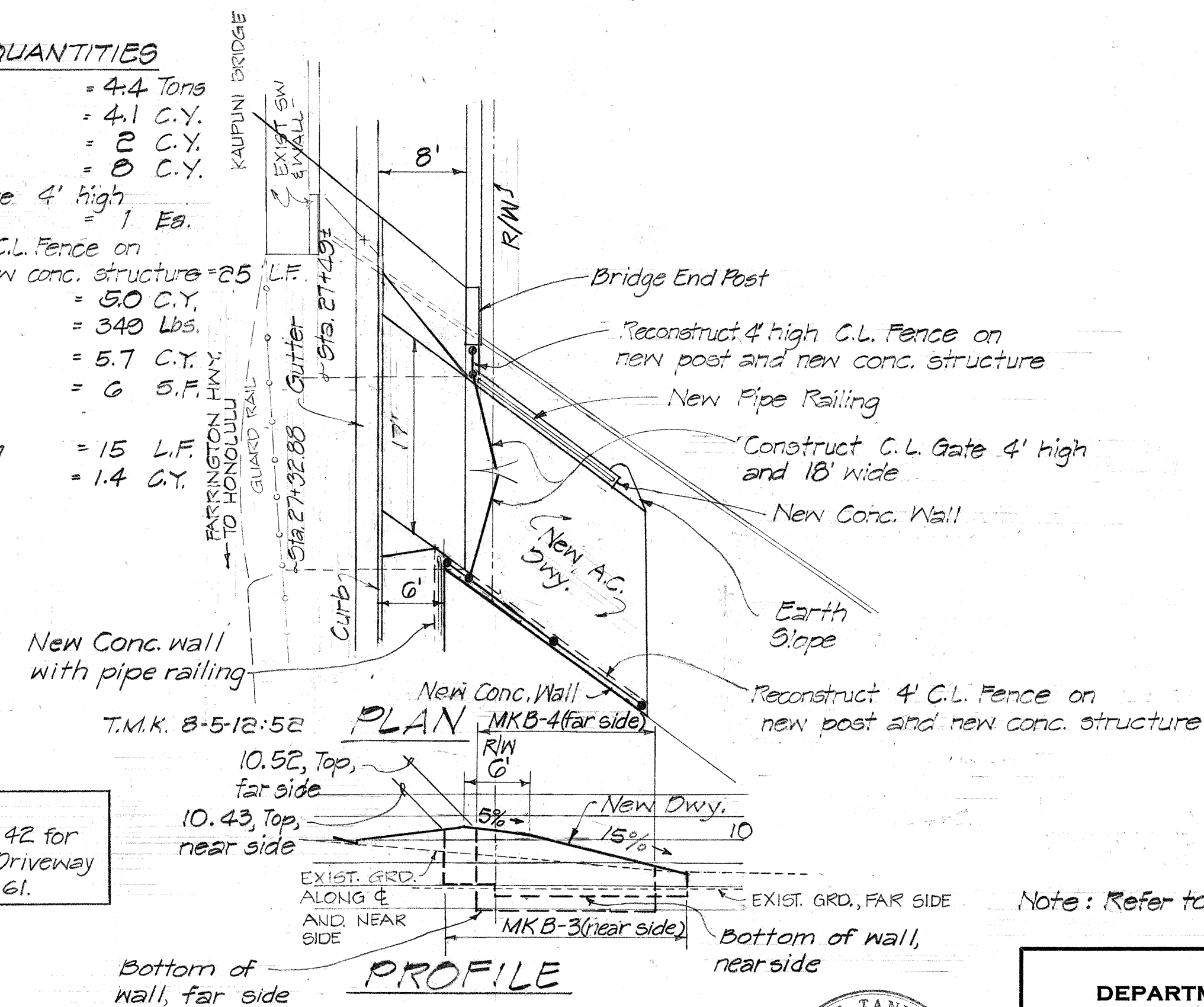
T.M.K. 8-5-12:52



DRIVEWAY AT STA. 29+18 (RIGHT)

A.C. Mix No. II = 4.4 Tons
Aggregate Base = 4.1 C.Y.
Excavation = 2 C.Y.
Fill = 0 C.Y.
Construct C.L. Gate 4' high
and 18" wide = 1 Ea.
Reconstruct 4' high C.L. Fence on
new post and new conc. structure
1" A' conc. = 5.0 C.Y.
Reinf. steel = 340 Lbs.
Str. exc. = 5.7 C.Y.
Grassing = 6 S.F.

G.I. Pipe Railing = 15 L.F.
Filter mat'l = 1.4 C.Y.



PROFILE

DRIVEWAY AT STA. 27+41 (RIGHT)

NOTE:
See Sheet 42 for
Details of Driveway
at Sta. 24+61.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	41	159

PROJECT NO. 93B-01-75

Note: Refer to note #1 on sheet 33

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
RIGHT SIDE

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET

PROJECT NO. 93B-01-75, UNIT I

SCALE: 1"=10' DATE:

SHEET No. 21 OF 29 SHEETS

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Paul J. Tanguil

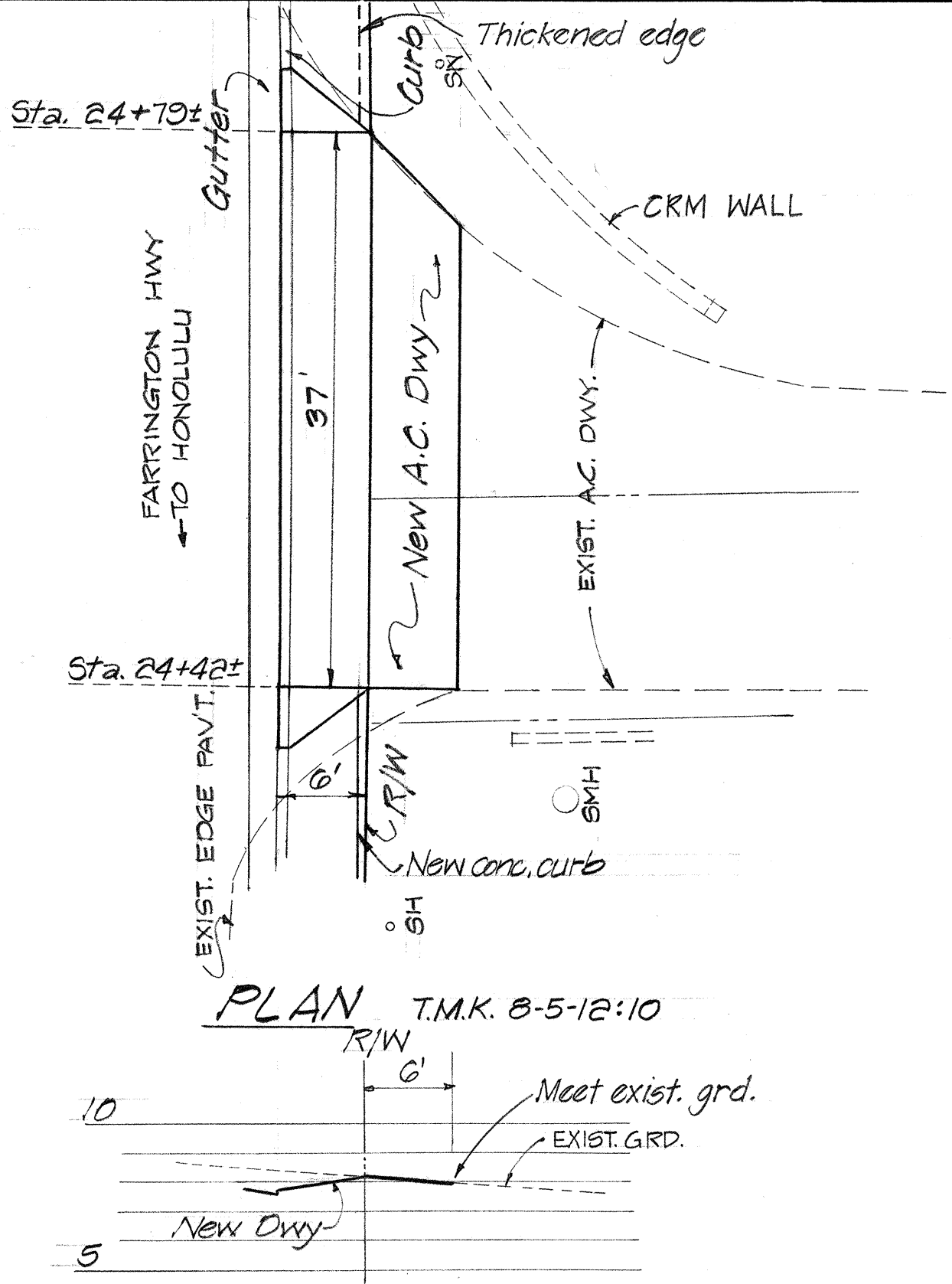
SHEET No. 21 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	42	150

PROJECT NO. 93B-01-75

ESTIMATED QUANTITIES

A.C. Mix No. II = 27 Tons
Aggregate Base = 25 C.Y.
Excavation = 4 C.Y.



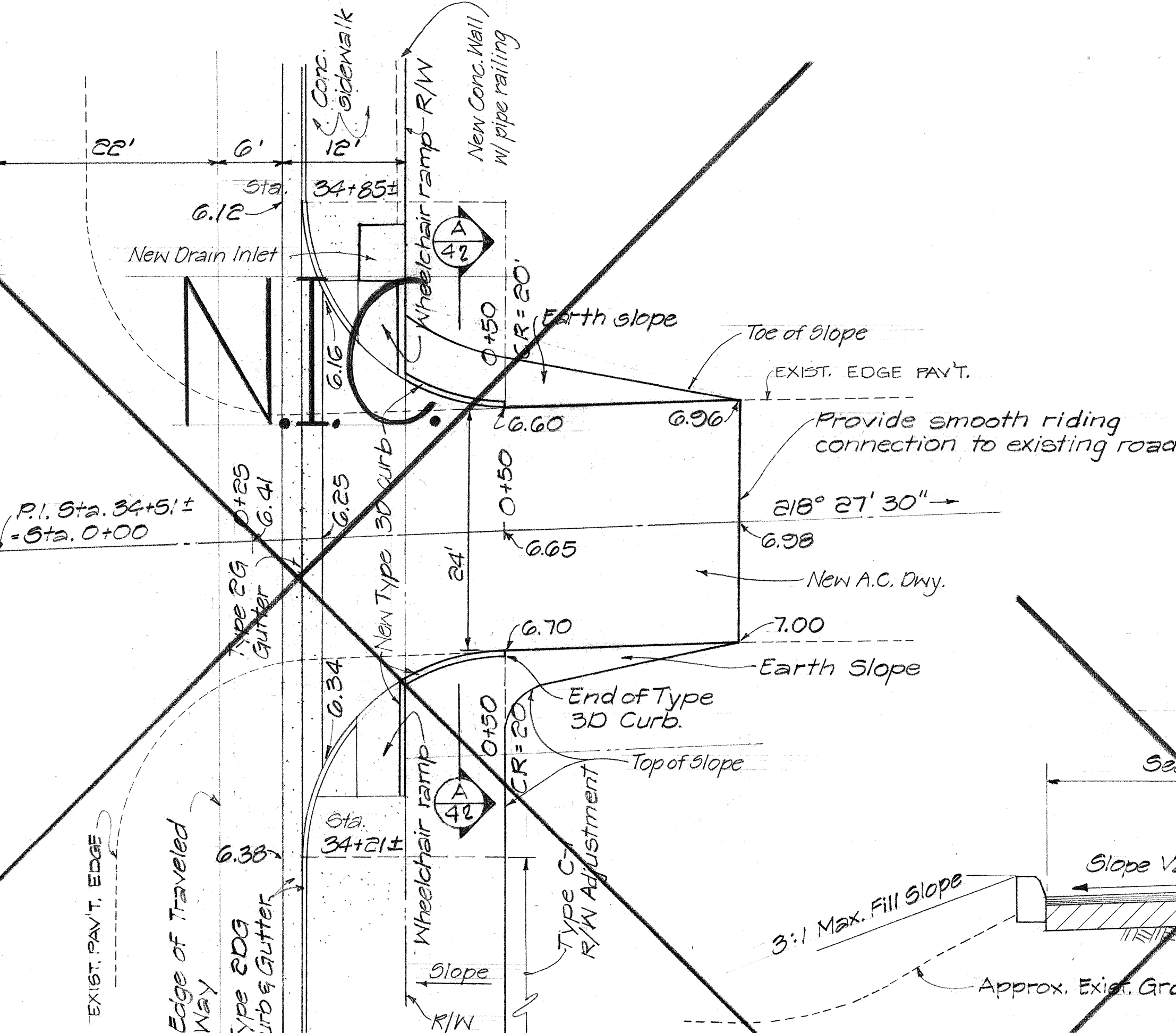
Note: Refer to note #1 on sheet 33.
(CCO #27): See Sheet CR.
Add 41.0 S.Y. Rein. Conc. D/W at Stas. 25+70± and 26+70±.
Delete 47.0 S.Y. Plain Conc. Sidewalk from Stas. 25+55± to 25+85± and from Stas. 26+55± to 26+85±

PROFILE

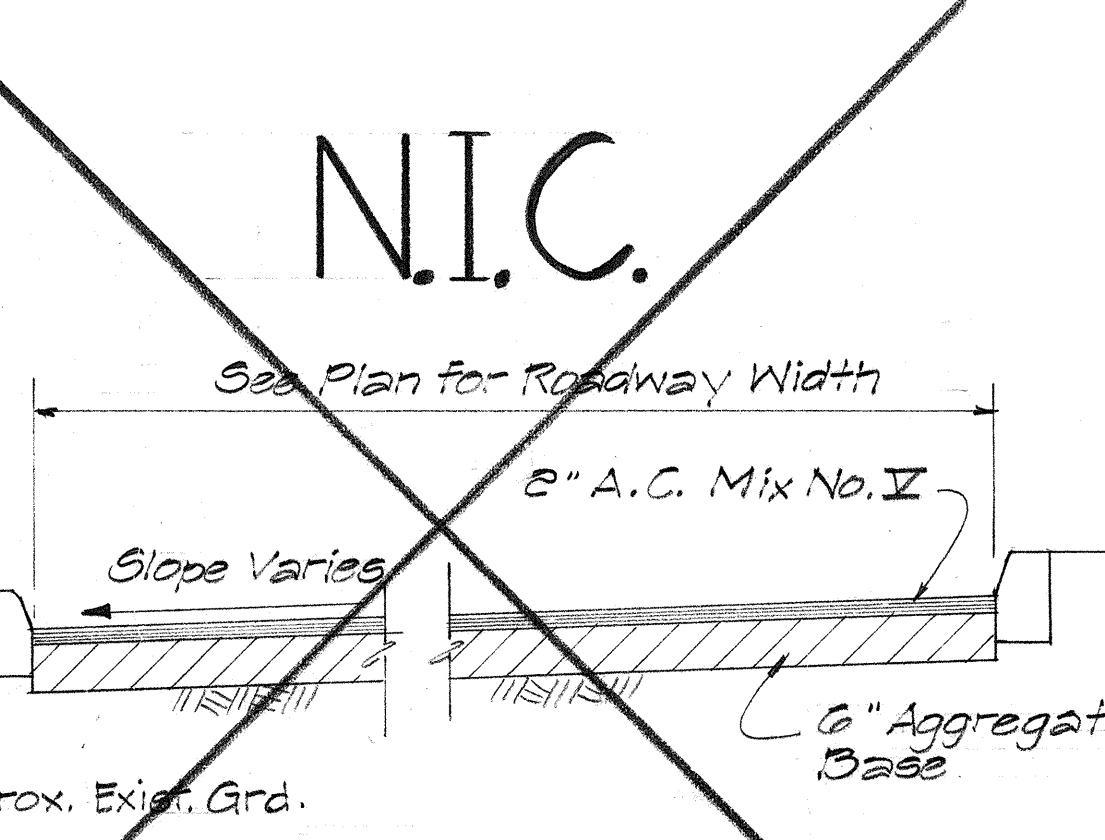
DRIVEWAY AT STA. 24+61 (RIGHT)

ESTIMATED QUANTITIES

A.C. Mix No. II = 14.8 Tons
Aggregate Base = 21.0 C.Y.
Excavation = 21 C.Y.
Type 2G Gutter = 64 L.F.
Type 3D Curb = 63 L.F.
Cl. "A" Conc. = 1.6 C.Y.
Reinf. Steel = 109 Lbs.
Str. Exc. = 1.7 C.Y.
Grassing = 369 S.F.
4" Plain Conc. S/W = 14.4 S.Y.
Filter Material = 0.4 C.Y.
Pipe Railing = 11 L.F.

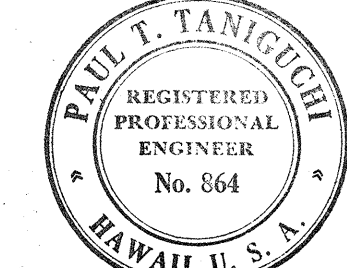


N.I.C.



SECTION
Scale: 1/2" = 1'-0"

9/06/79	Revised End of Project Station. Deleted work beyond Sta. 34+00.
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DRIVEWAY DETAILS
RIGHT SIDE**

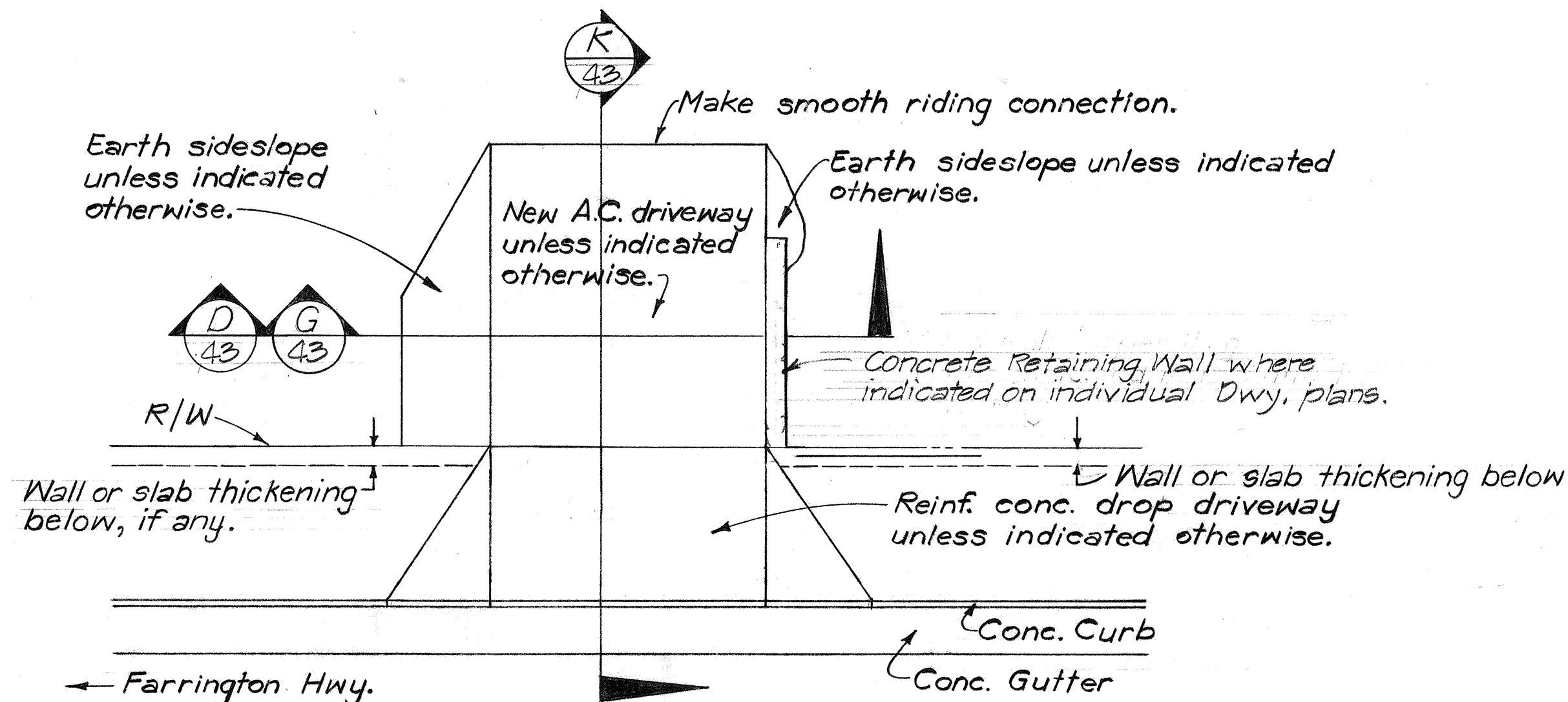
**FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET**

PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE:

SHEET NO. 22 OF 29 SHEETS

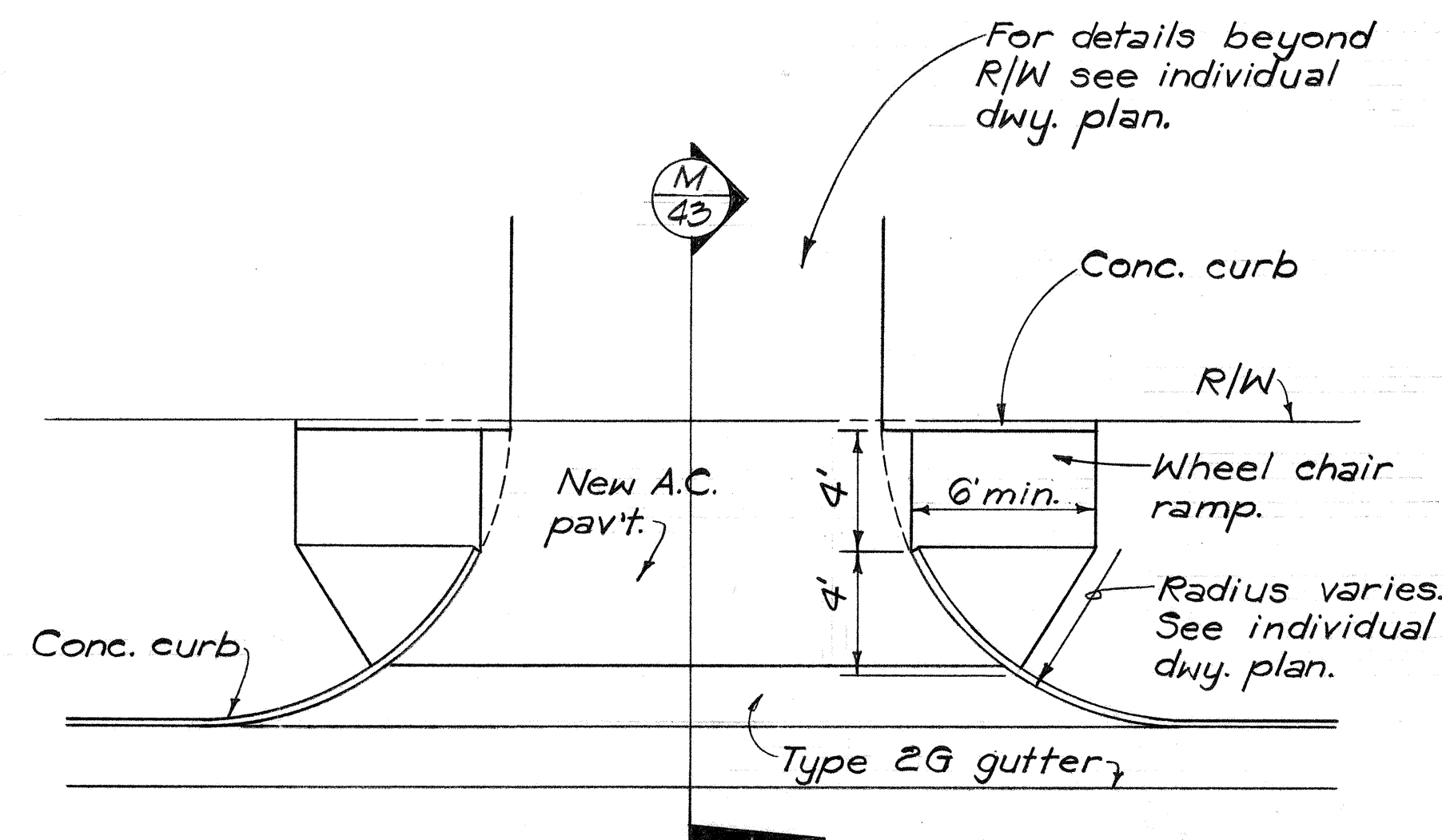
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	43	150

PROJECT NO. 93B-01-75



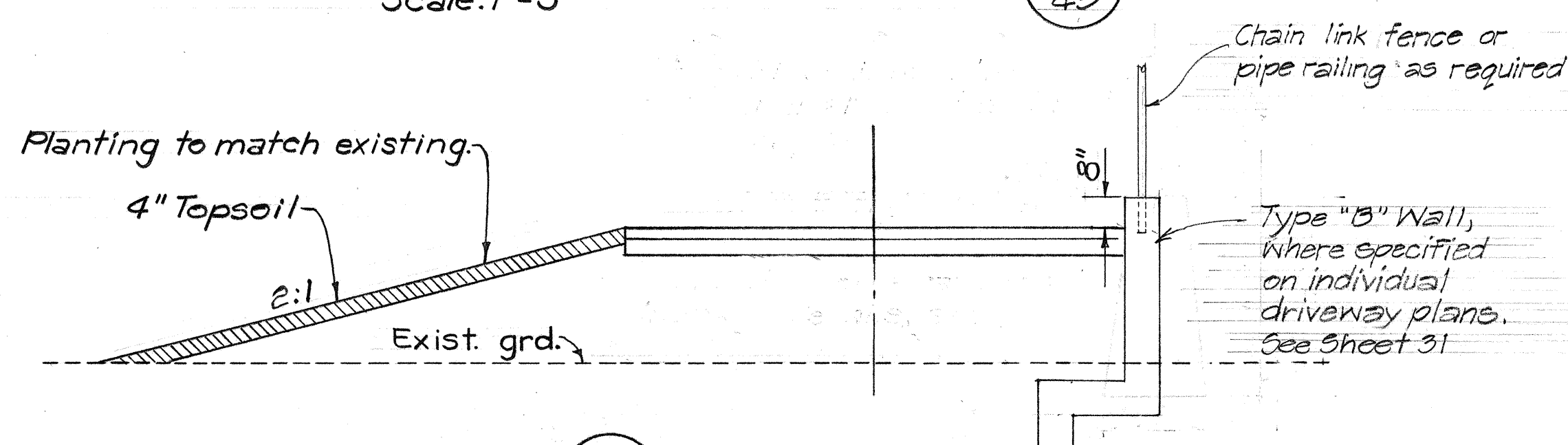
TYPICAL DRIVEWAY PLAN
WITH REINF. CONC. DROP DRIVEWAY

Scale: 1"=5'



TYPICAL DRIVEWAY PLAN
WITH CURBED DRIVEWAY

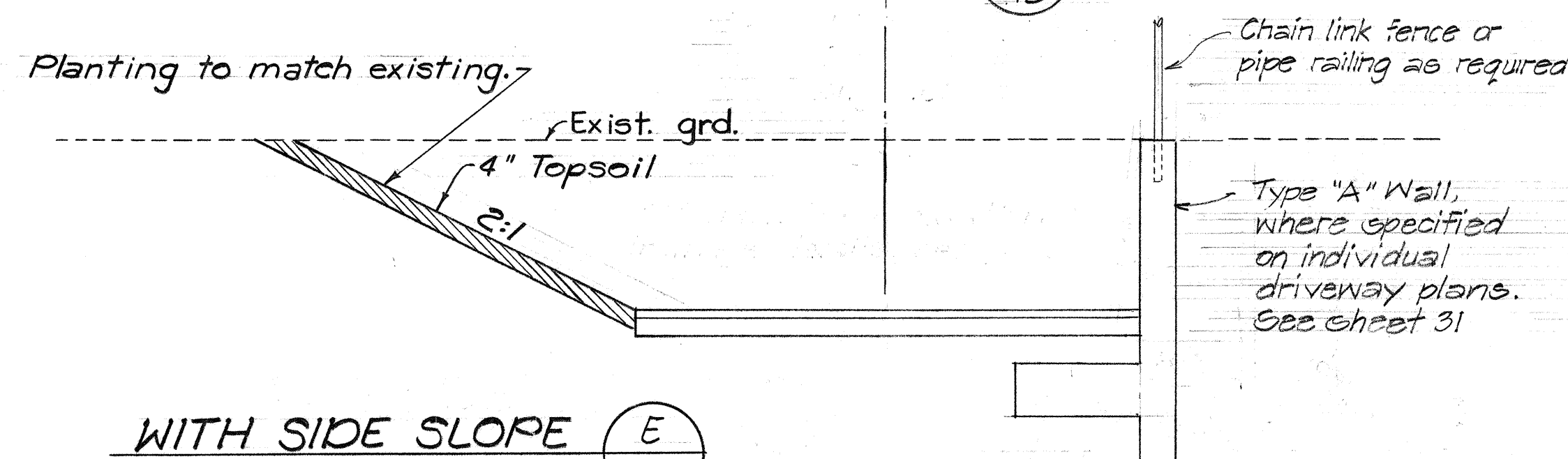
Scale: 1"=5'



WITH SIDE SLOPE

(B)
43

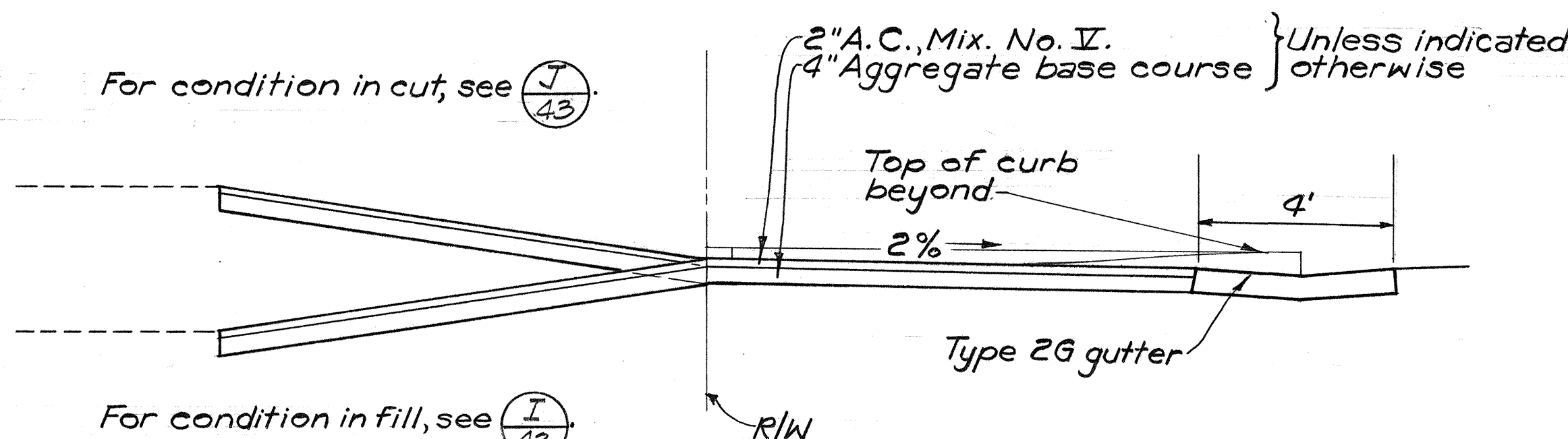
IN FILL (D)
43



WITH SIDE SLOPE

(E)
43

IN CUT (G)
43



TYPICAL PROFILE SECTION
AT CURBED DRIVEWAY

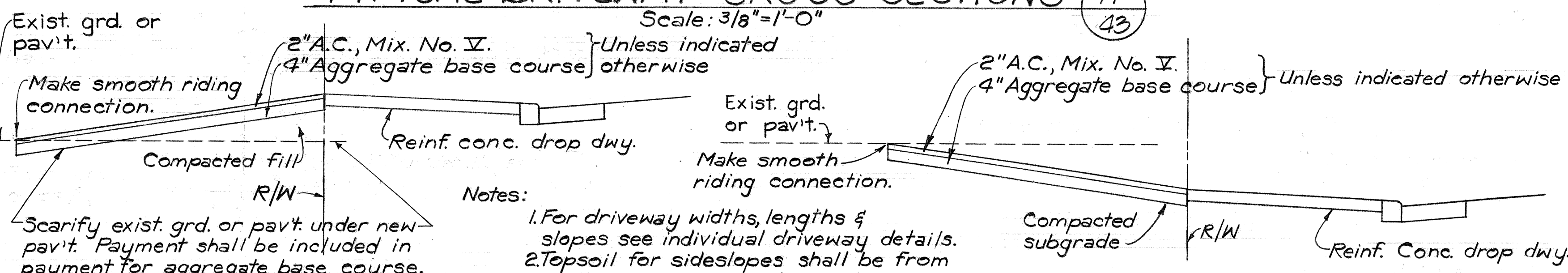
Scale: 3/8"=1'-0"

(M)
43

TYPICAL DRIVEWAY CROSS SECTIONS

Scale: 3/8"=1'-0"

(H)
43



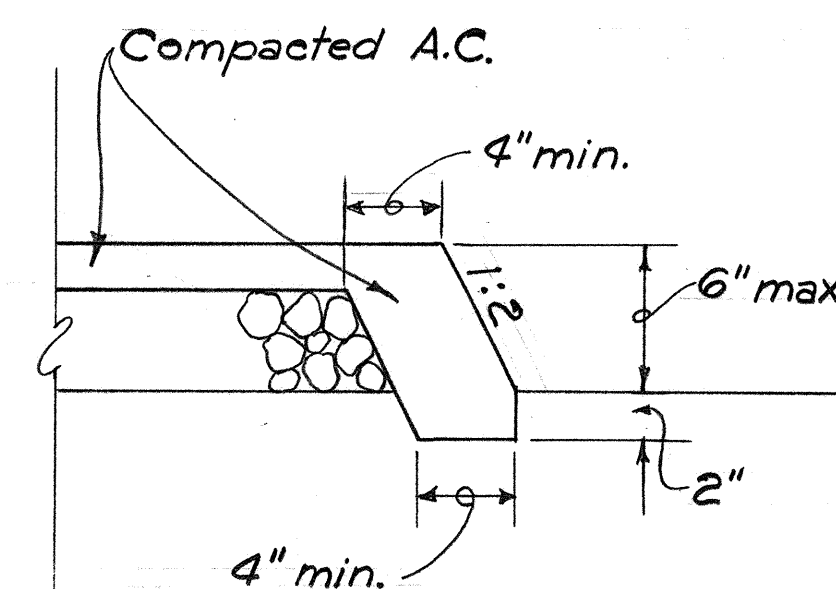
IN FILL (I)
43

IN CUT (J)
43

TYPICAL DRIVEWAY PROFILE SECTIONS

Scale: 3/8"=1'-0"

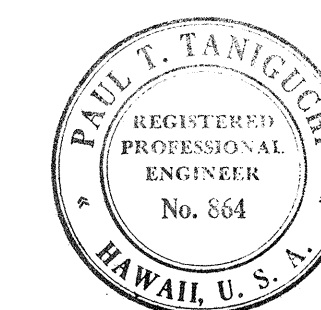
(K)
43



Note: This detail shall be used only where specified on the individual driveway plans.

A.C. EDGER (N)
43

Scale: 1 1/2"=1'-0"



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Paul T. Taniguchi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAILS
STANDARD DETAILS

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: AS SHOWN DATE:

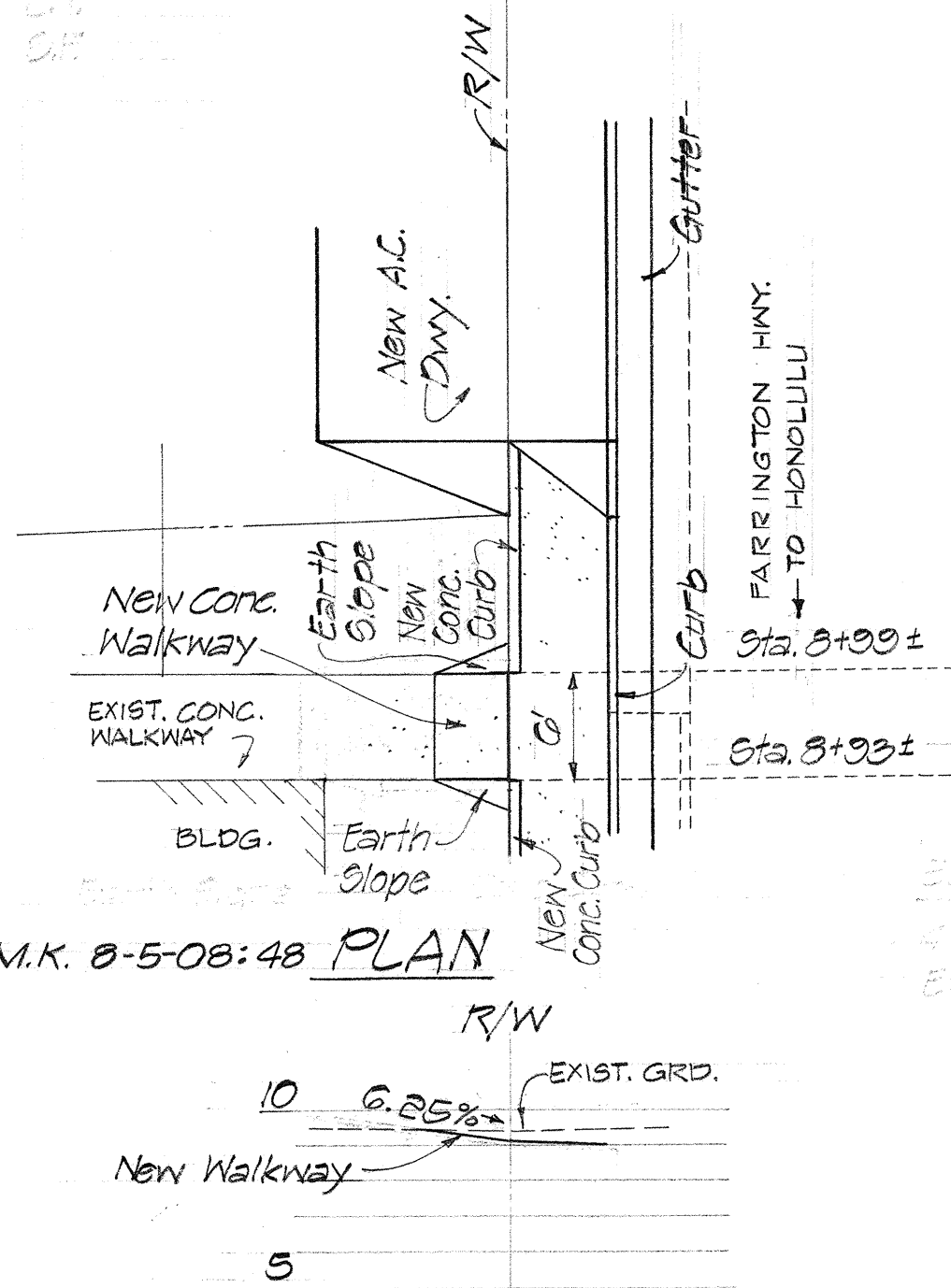
SHEET NO. 23 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	44	150

PROJECT NO. 93B-01-75

ESTIMATED QUANTITIES

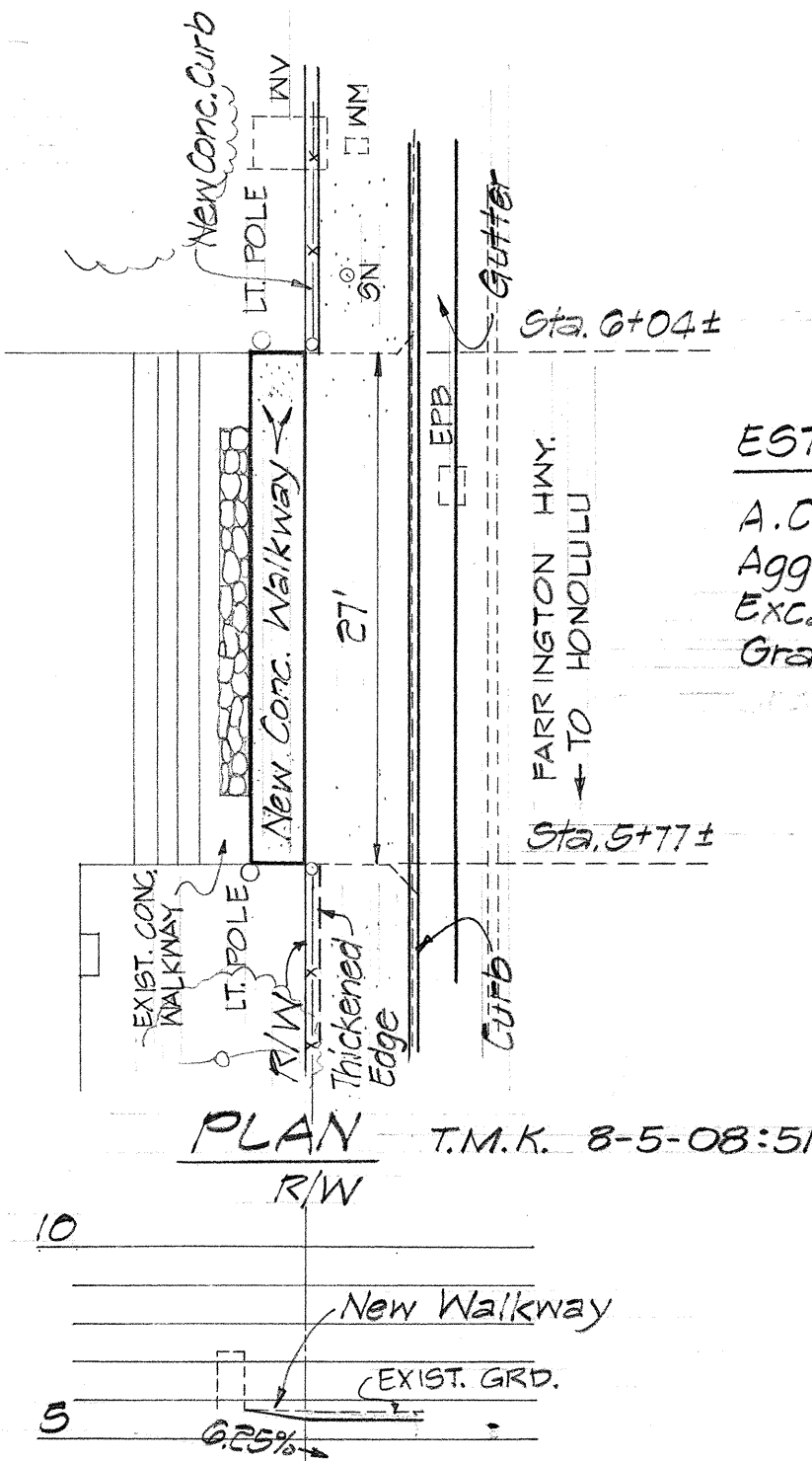
Plain Conc. Walk = 3.0 Sq. Yd.
Excavation = 1 C.Y.
Grassing = 0 S.F.



WALKWAY AT STA. 8+96 (LEFT)
(TYPE U-1)*

ESTIMATED QUANTITIES

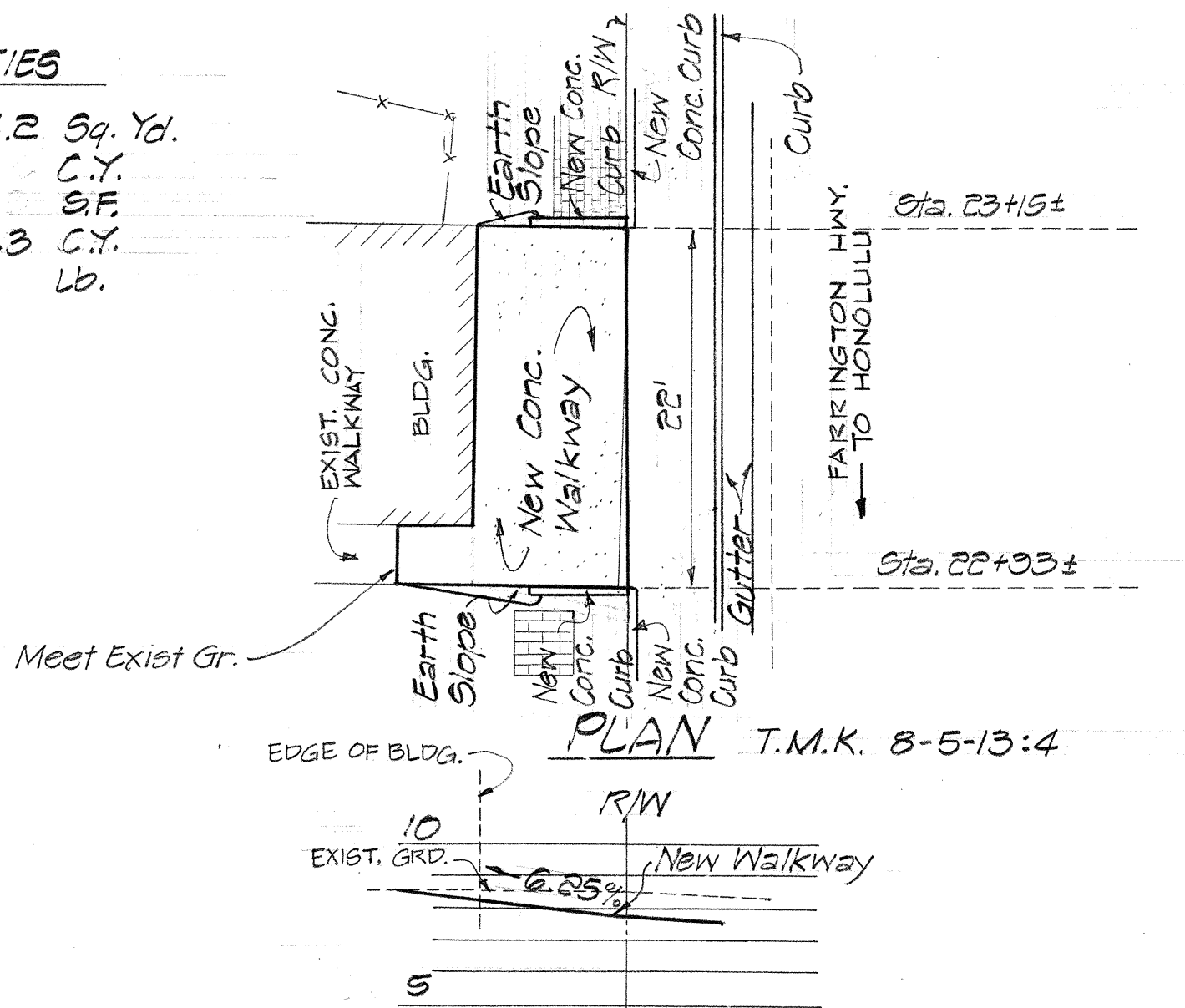
Plain Conc. Walk = 9.0 Sq. Yd.
Excavation = 1 C.Y.



WALKWAY AT STA. 5+91 (LEFT)
(TYPE U-1)*

ESTIMATED QUANTITIES

Plain Conc. Walk = 84.2 Sq. Yd.
Excavation = 8 C.Y.
Grassing = 6 S.F.
Class 'A' Conc. = 0.3 C.Y.
Reinf. Steel = 16 Lb.

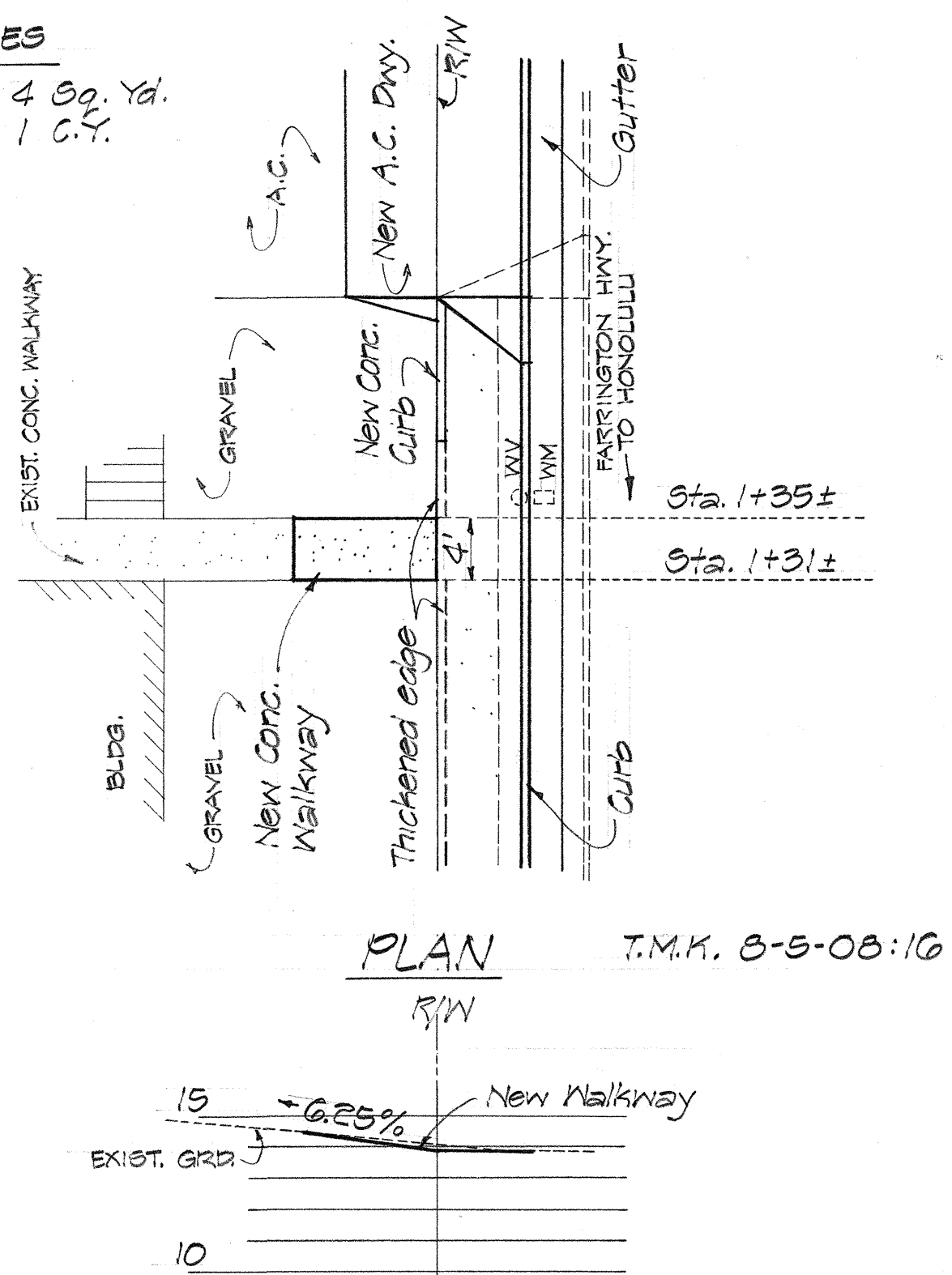


WALKWAY AT STA. 23+04 (LEFT)
(TYPE U-2)*

Note #1: Except where noted otherwise,
Estimated Quantities for Walkways
include only quantities outside
the Right-of-Way Line.

ESTIMATED QUANTITIES

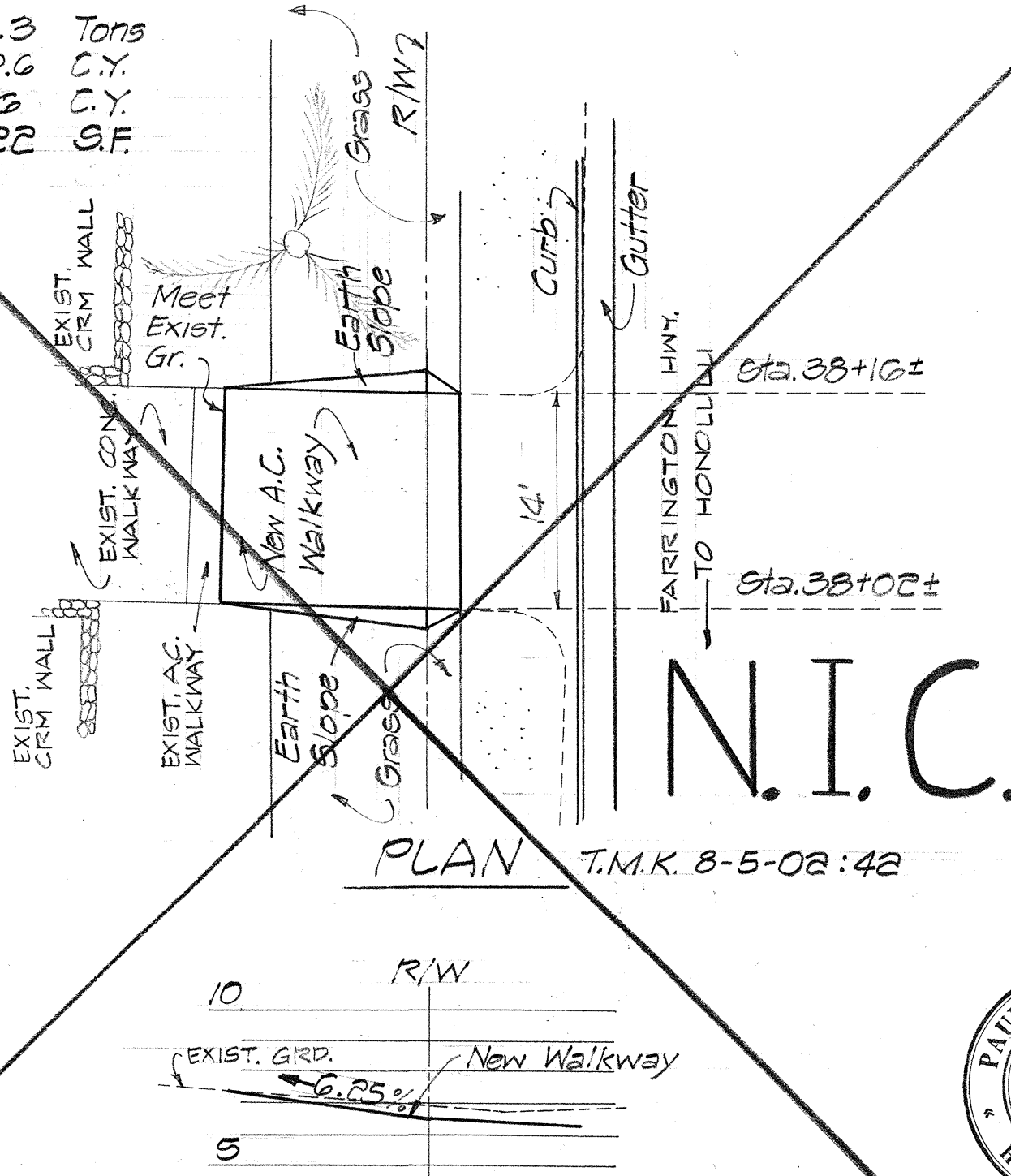
Plain Conc. Walk = 4 Sq. Yd.
Excavation = 1 C.Y.



WALKWAY AT STA. 1+33 (LEFT)
(TYPE U-1)*

ESTIMATED QUANTITIES

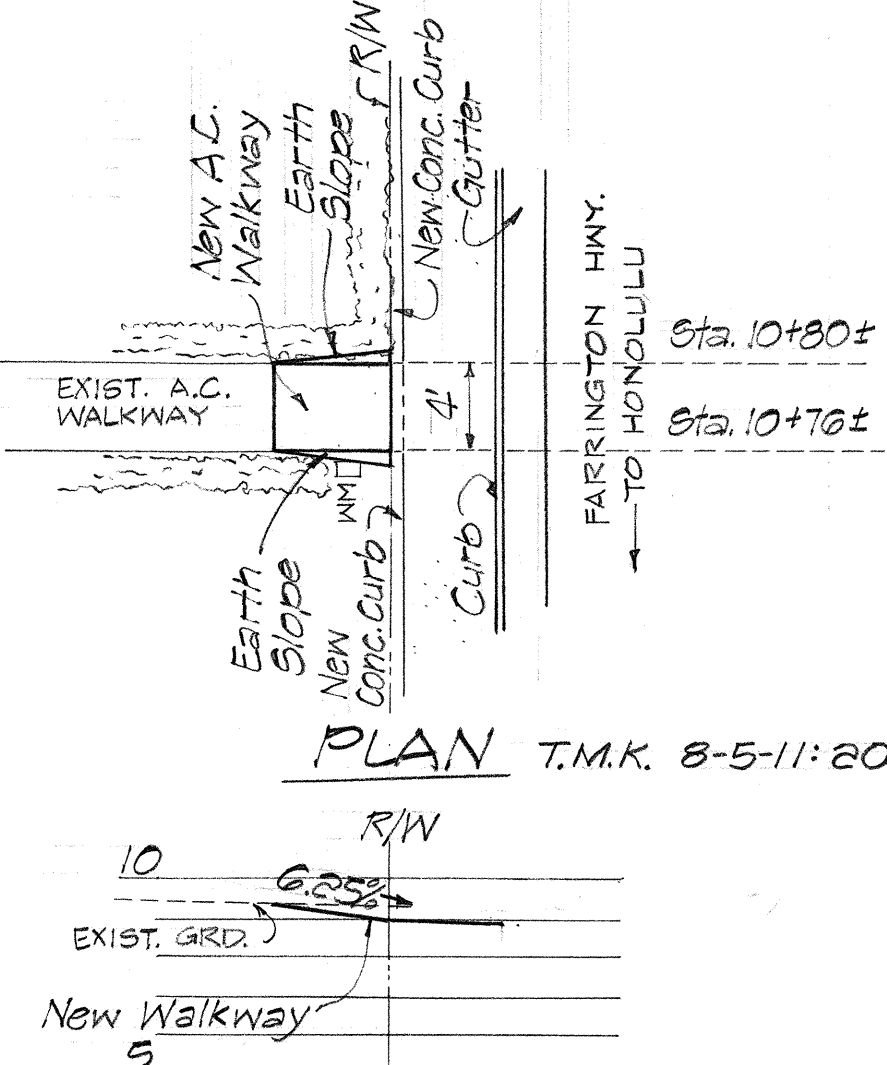
A.C. Mix No. V = 1.3 Tons
Aggregate Base = 2.6 C.Y.
Excavation = 6 C.Y.
Grassing = 22 S.F.



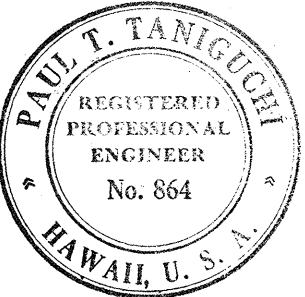
WALKWAY AT STA. 38+09 (LEFT)
(TYPE U-1)*

ESTIMATED QUANTITIES

A.C. Mix No. V = 0.8 Tons
Aggregate Base = 0.3 C.Y.
Excavation = 1 C.Y.
Grassing = 0 S.F.



WALKWAY AT STA. 10+78 (LEFT)
(TYPE U-1)*



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

8/06/79 Revised End of Project Station.
Deleted work beyond Sta. 34+00.
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WALKWAY DETAILS
LEFT SIDE

FARRINGTON HIGHWAY WIDENING
LUALUALEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: 1"=10' DATE:

SHEET NO. 24 OF 29 SHEETS

C.O.44

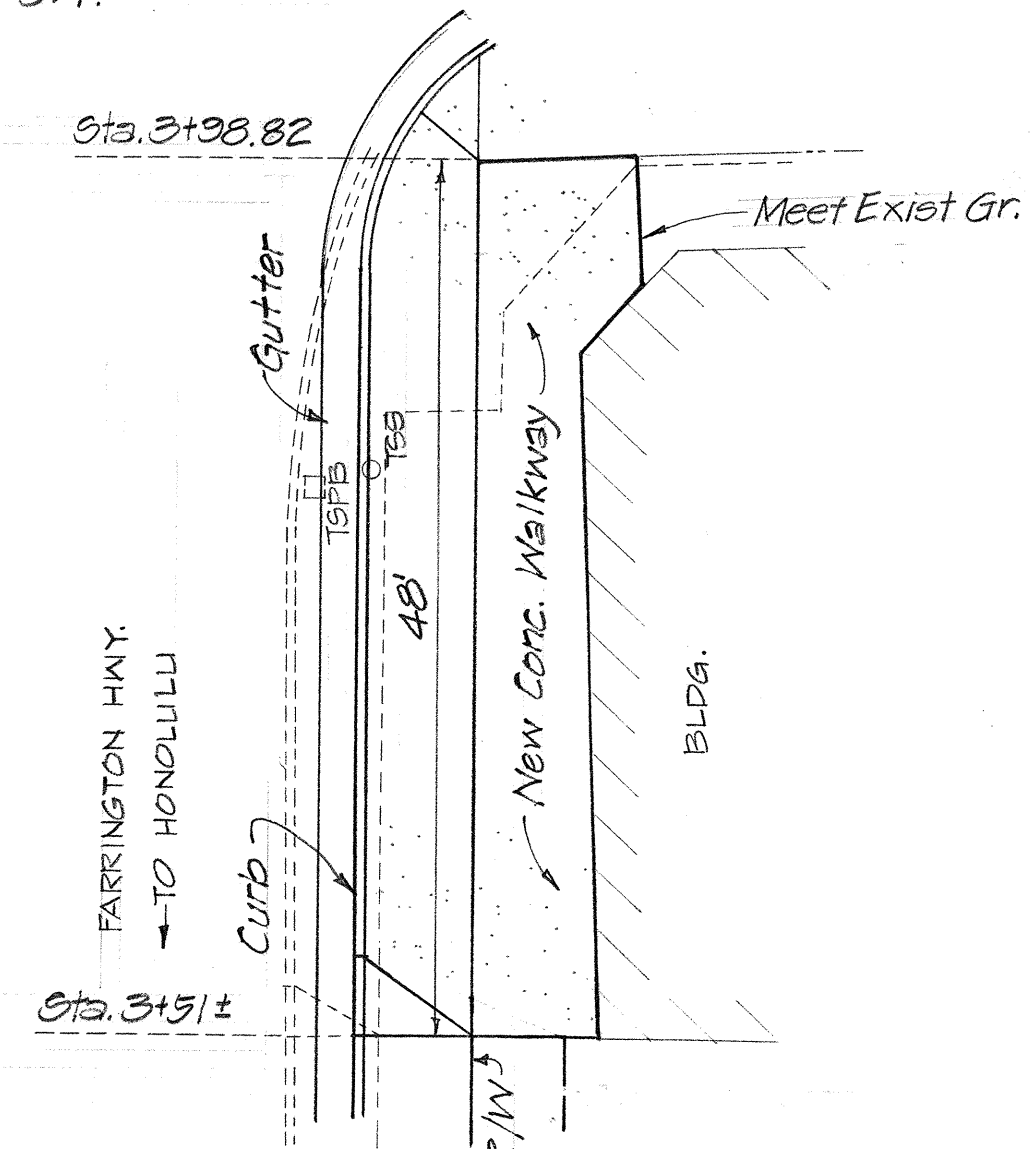
DATE	DESIGNED BY	CHECKED BY
NO.	NO.	NO.

*Note: See sheet 46 for details of types of walkways.

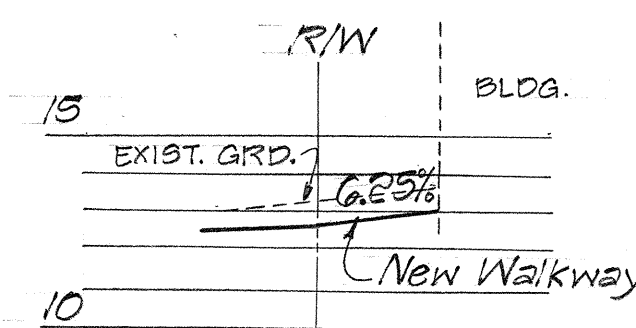
*Note: See sheet 40 for details of types of walkways

ESTIMATED QUANTITIES

Plain Conc. Walk = 31.5 Sq. Yd.
Excavation = 10 C.Y.



PLAN T.M.K. 8-5-08:54

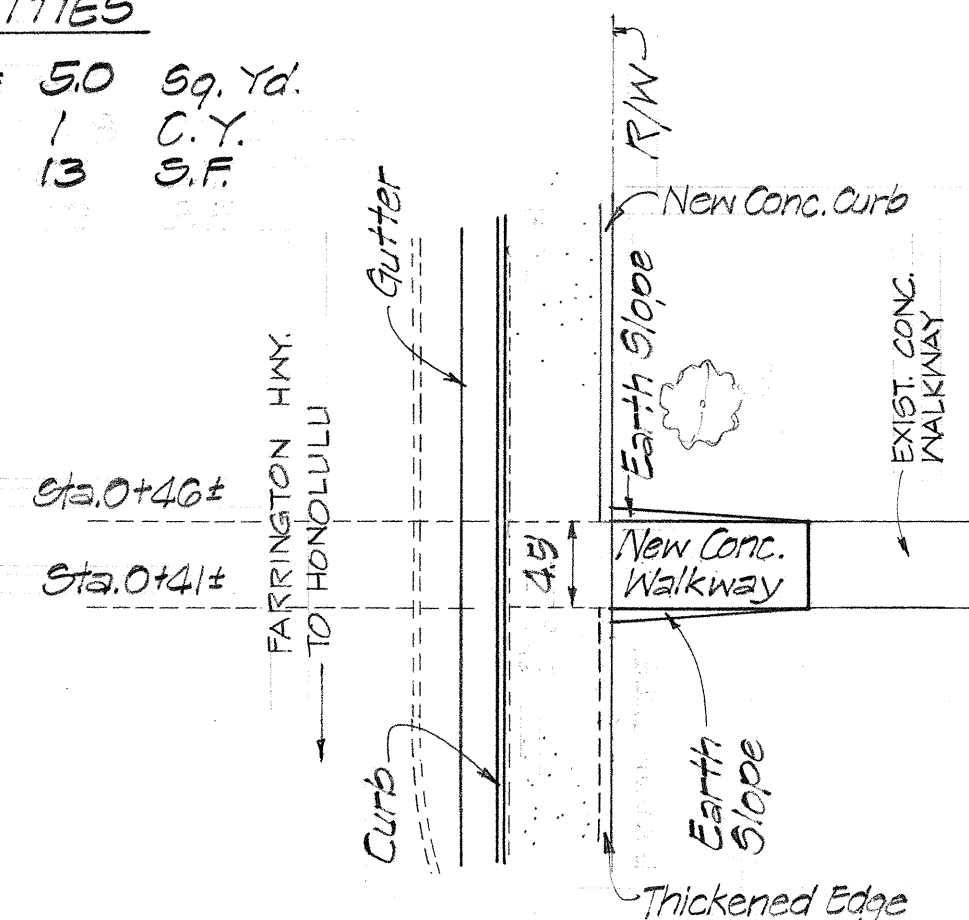


PROFILE

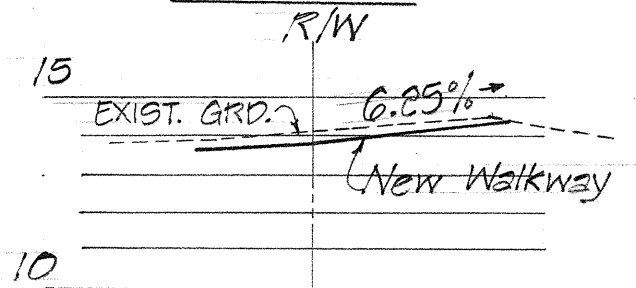
WALKWAY AT STA. 3+74 (RIGHT)
(TYPE U-1)*

ESTIMATED QUANTITIES

Plain Conc. Walk = 5.0 Sq. Yd.
Excavation = 1 C.Y.
Grassing = 13 S.F.



PLAN T.M.K. 8-5-08:13

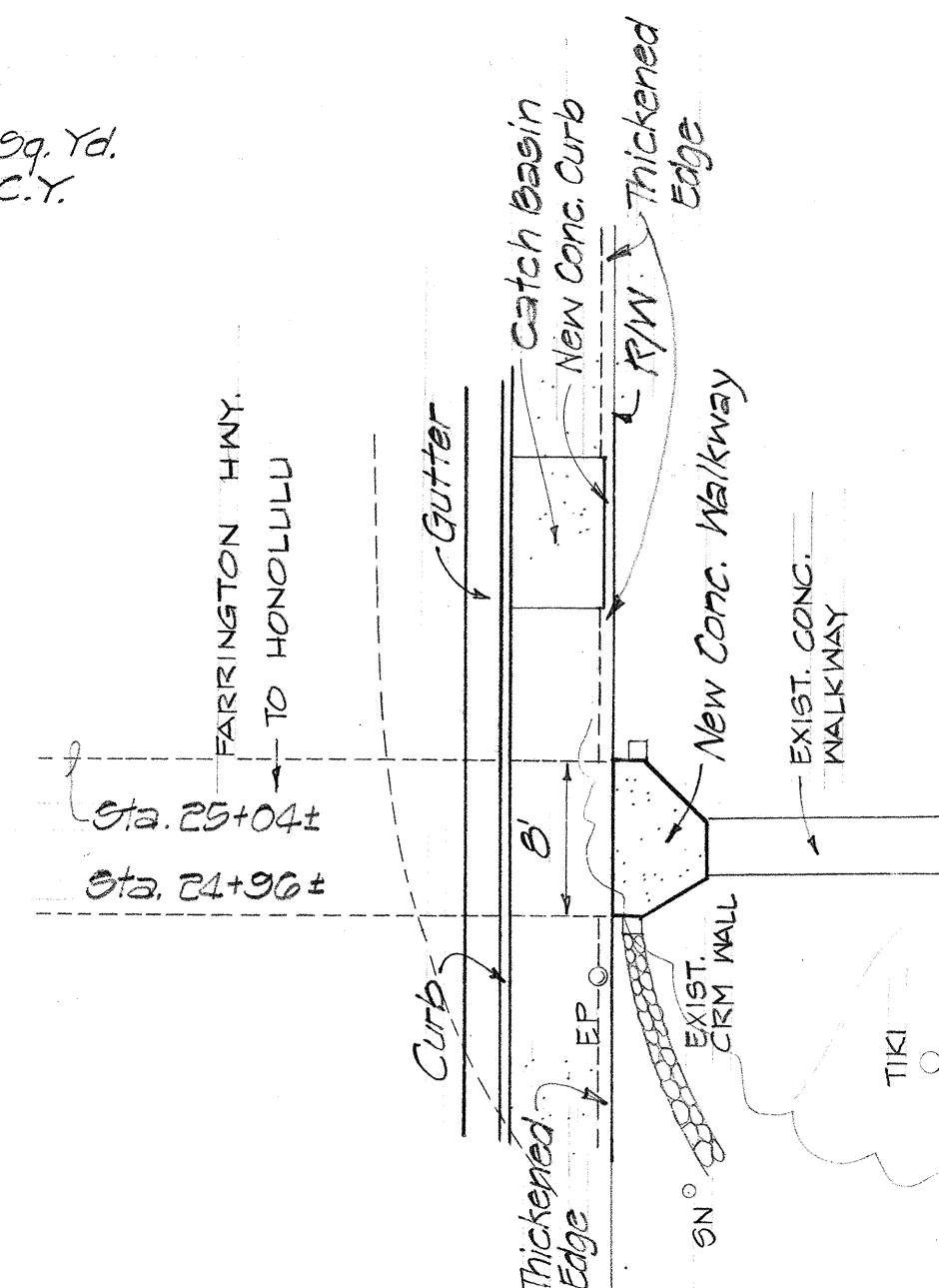


PROFILE

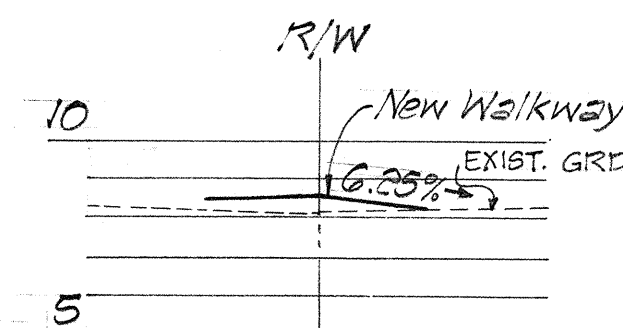
WALKWAY AT STA. 0+43 (RIGHT)
(TYPE U-1)*

ESTIMATED QUANTITIES

Plain Conc. Walk = 3.6 Sq. Yd.
Excavation = 1 C.Y.



T.M.K. 8-5-12:10 PLAN

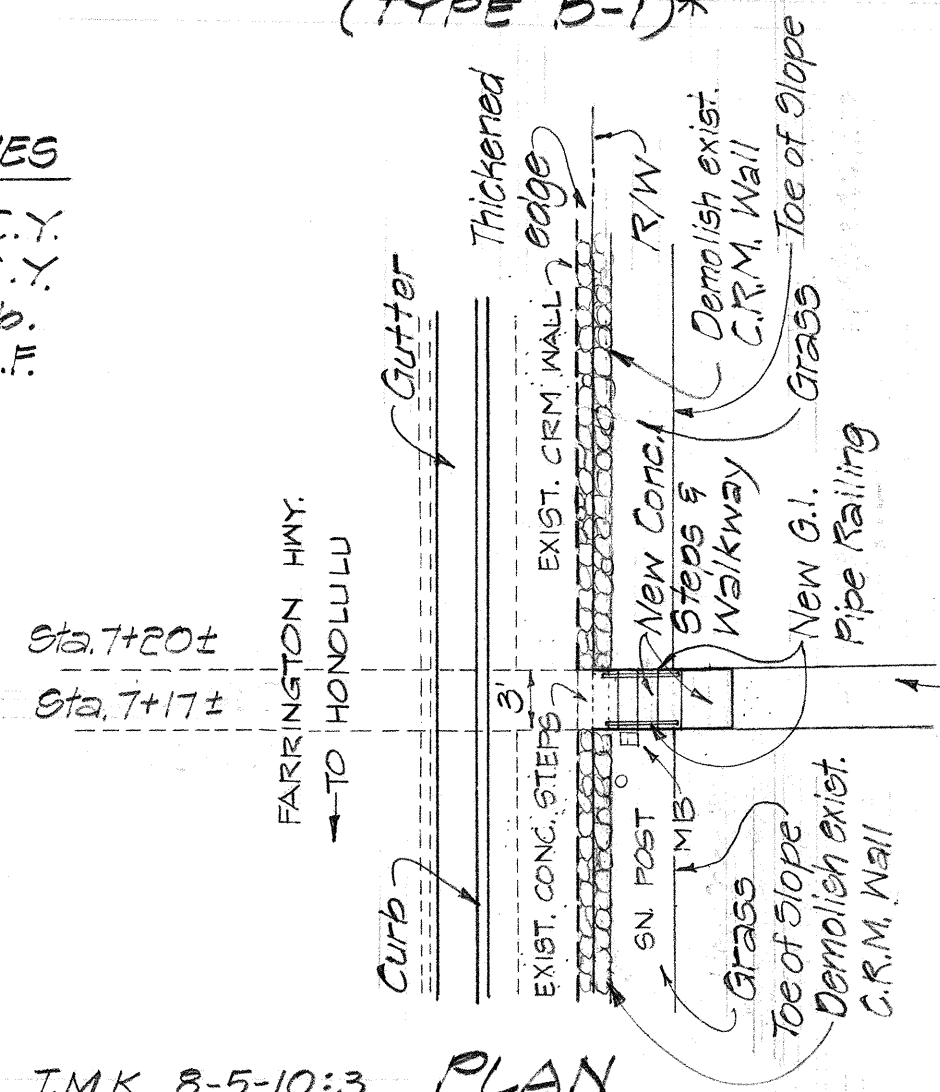


PROFILE

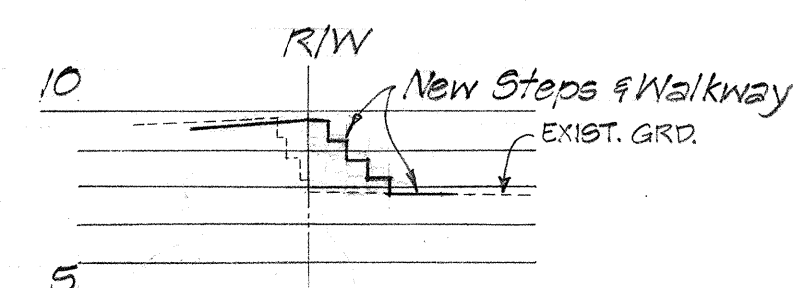
WALKWAY AT STA. 25+00 (RIGHT)
(TYPE D-1)*

ESTIMATED QUANTITIES

Class "A" Conc. = 0.4 C.Y.
Excavation = 1 C.Y.
Reinf. Steel = 5 Lb.
G.I. Pipe Railing = 8 L.F.



T.M.K. 8-5-10:3 PLAN



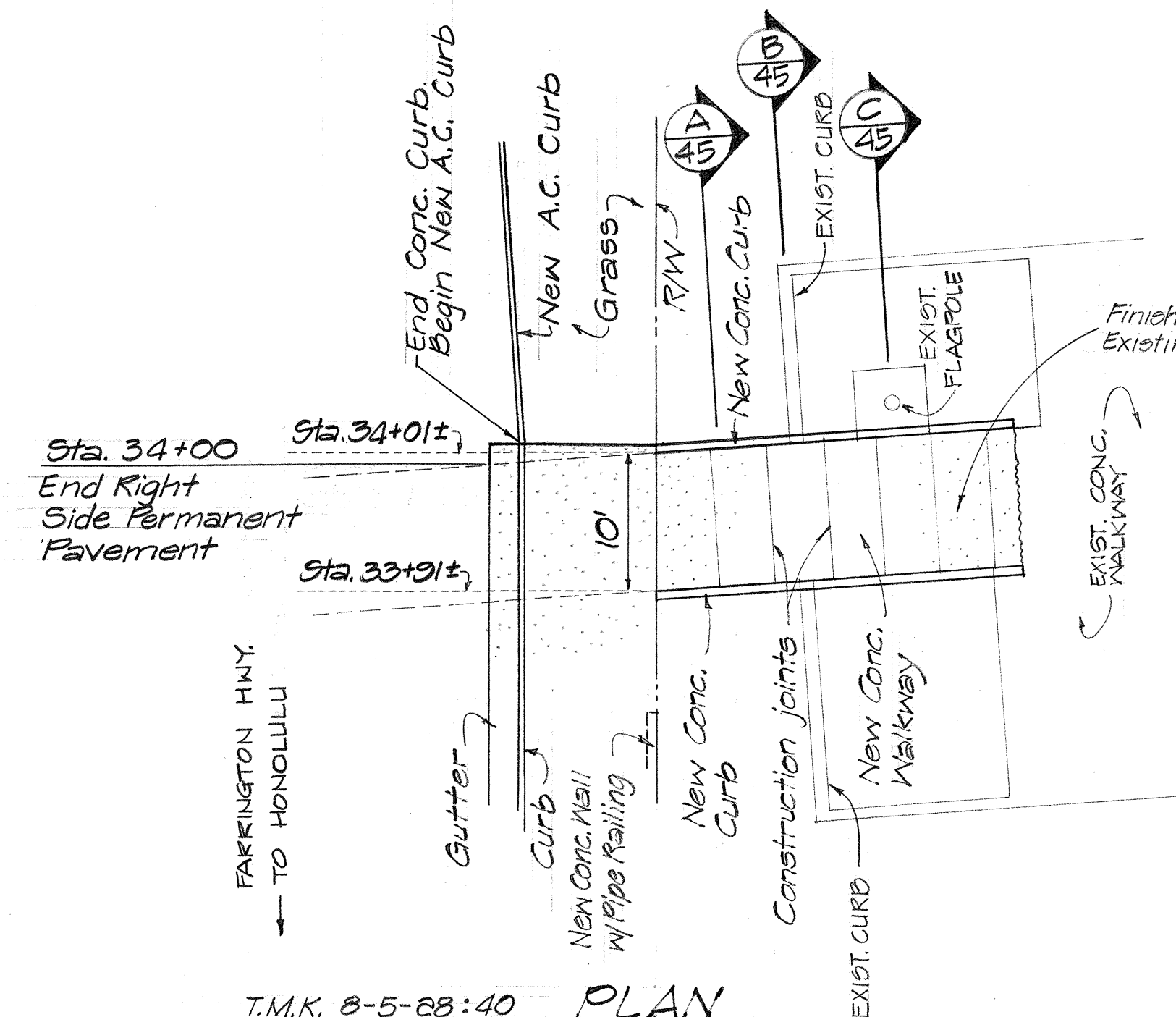
PROFILE

WALKWAY AT STA. 7+18 (RIGHT)
(TYPE D-2)*

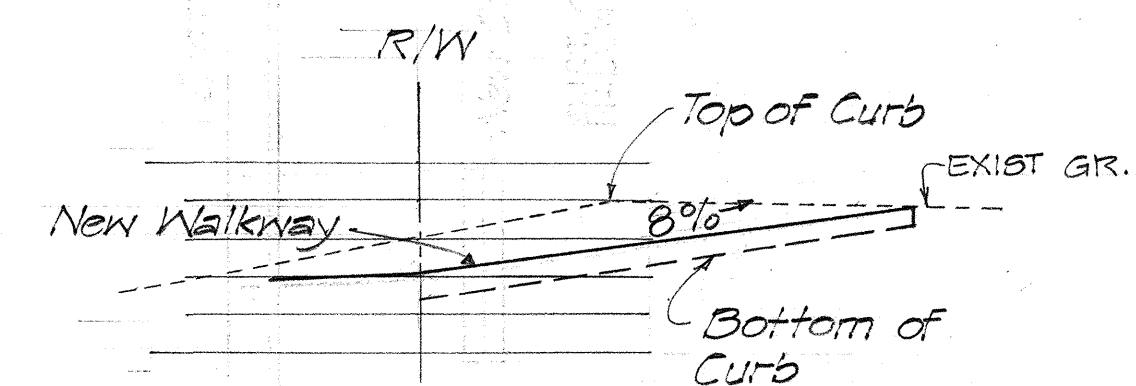
ESTIMATED QUANTITIES

Class "A" Conc. = 4.7 C.Y.
Reinf. Steel = 70 Lbs.
St. Exc. = 1.5 C.Y.
Excavation = 9 C.Y.

Note: W.W.F. shall be incidental to concrete.



T.M.K. 8-5-68:40 PLAN



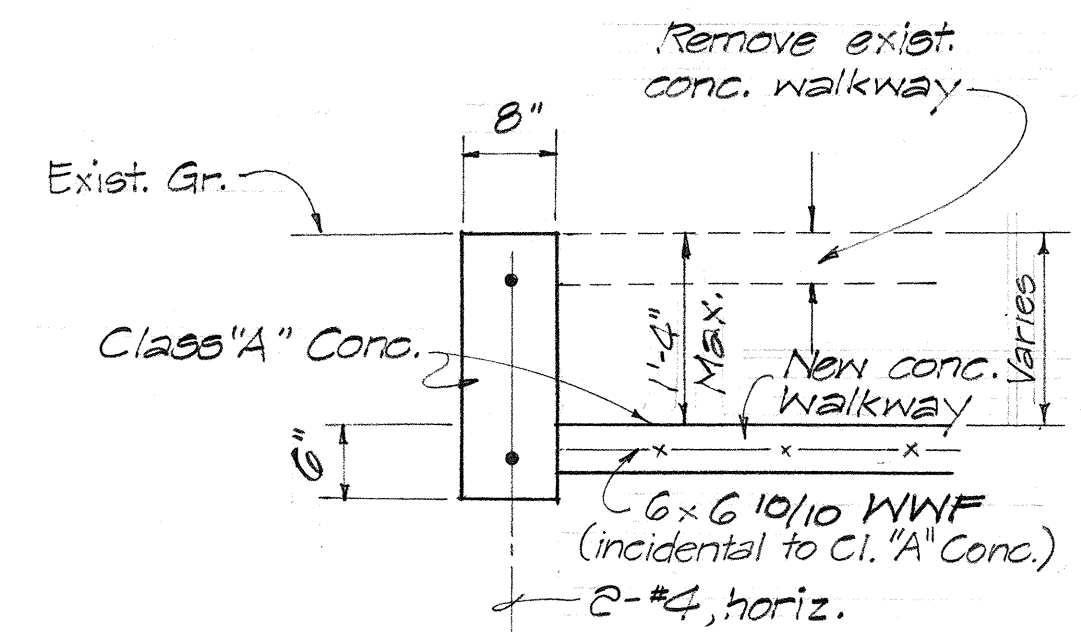
PROFILE

WALKWAY AT STA. 33+96 (RIGHT)

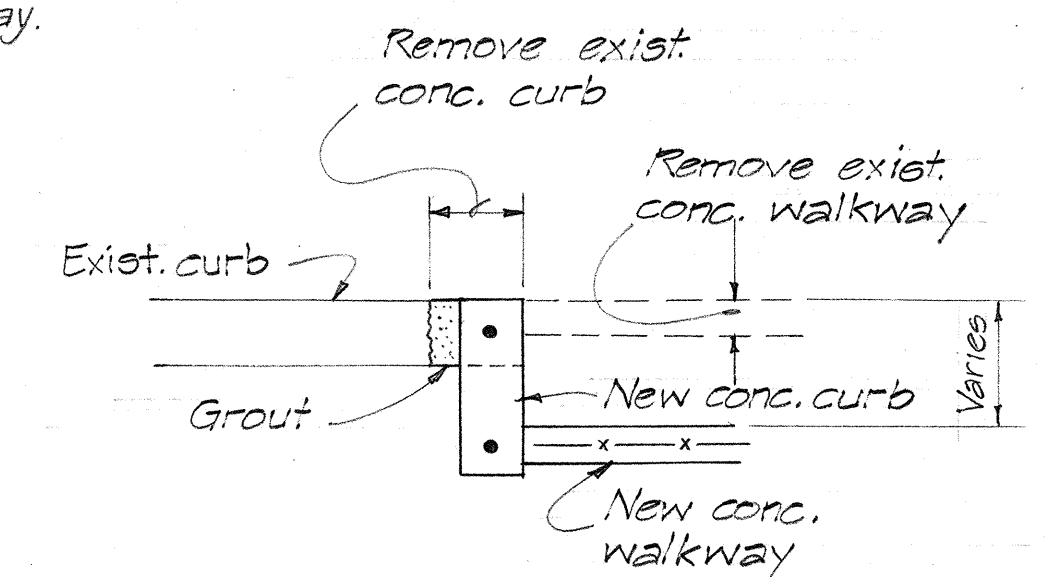
Note: Refer to note #1 on sheet 44.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	45	159

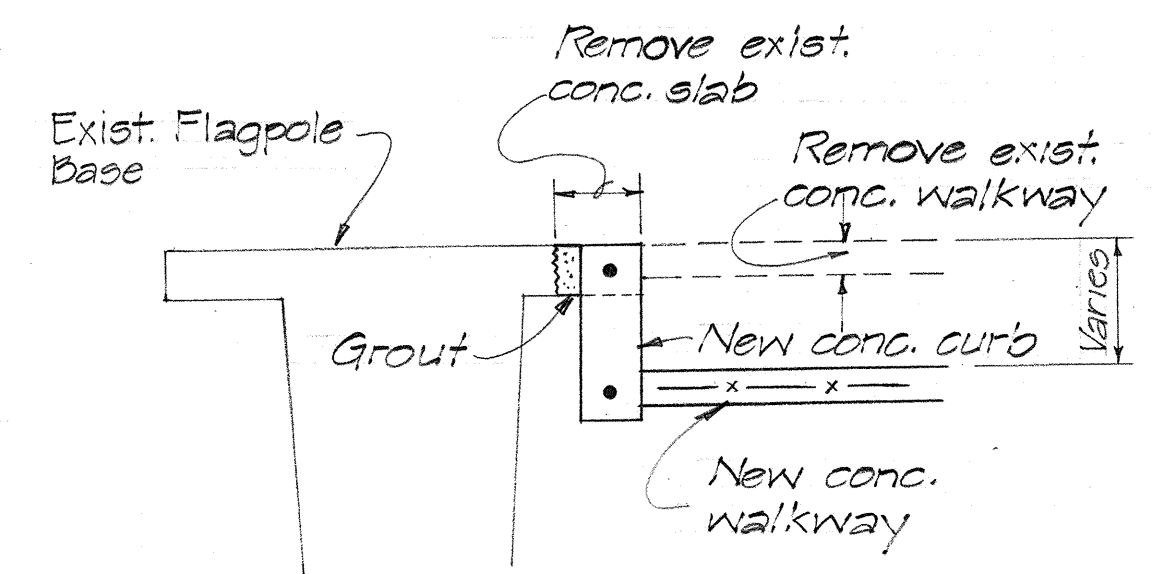
PROJECT NO. 93B-01-75



SECTION A
Scale: 3/4"=1'-0"

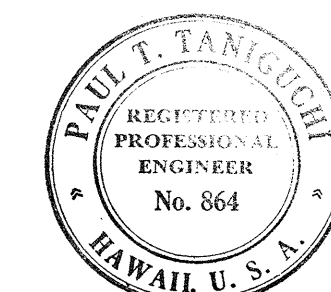


SECTION B
Scale: 1/2"=1'-0"



SECTION C
Scale: 1/2"=1'-0"

8/06/79	Revised End of Project Station. Revised Walkway Detail at Sta. 33+96.
DATE	REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

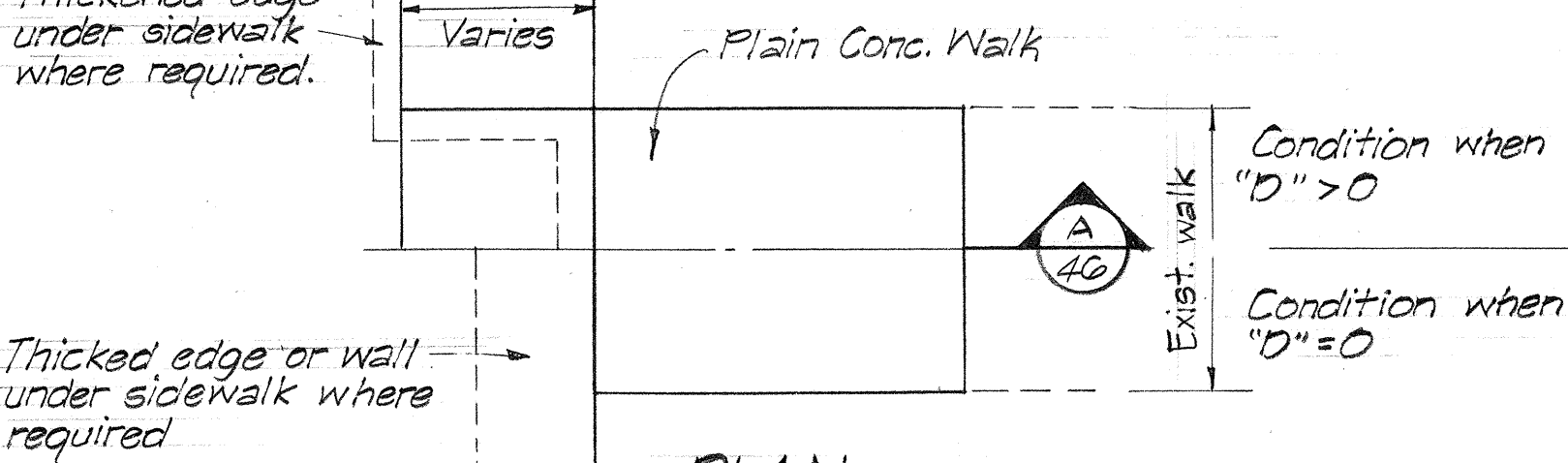
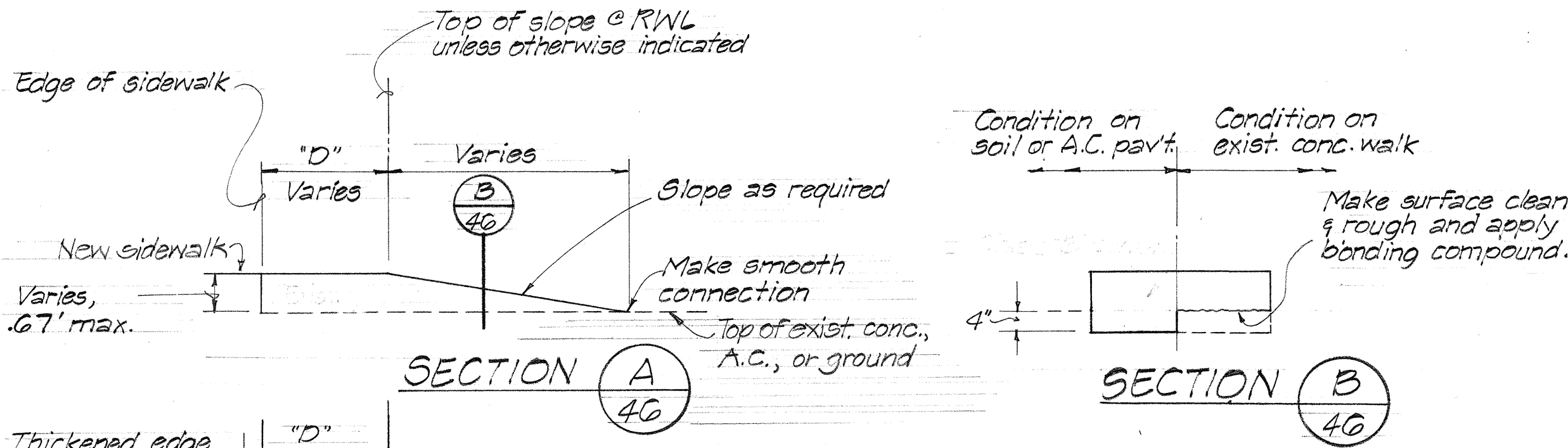
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WALKWAY DETAILS RIGHT SIDE FARRINGTON HIGHWAY WIDENING LUUALUEI HOMESTEAD ROAD TO JADE STREET PROJECT NO. 93B-01-15, UNIT I SCALE: 1"=10' SHEET NO. 25 OF 29 SHEETS

C.O.45

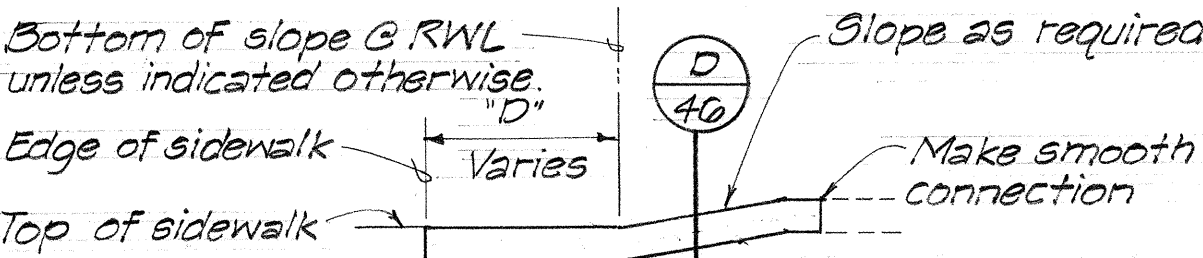
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	46	159

PROJECT NO. 93B-01-75

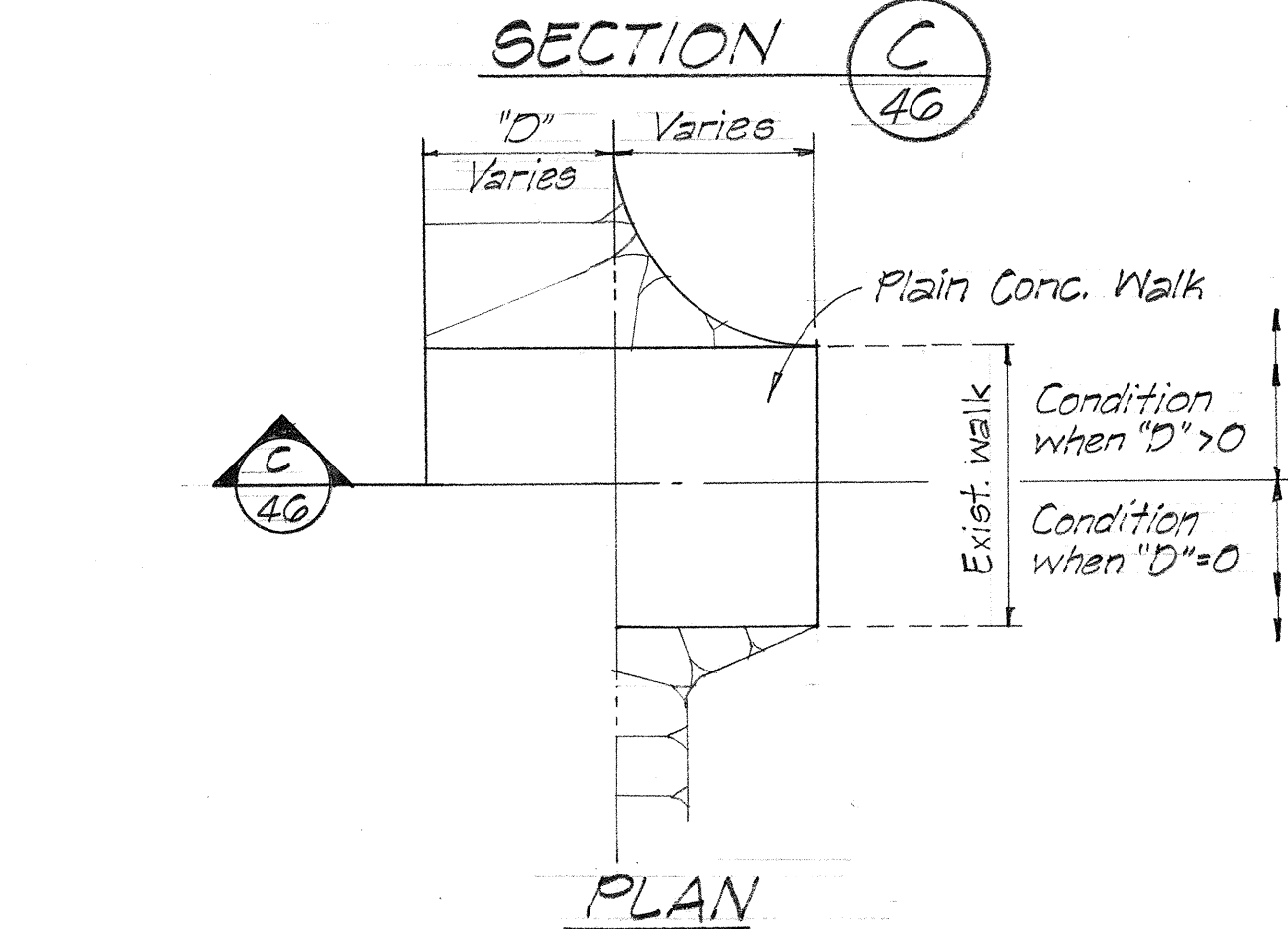
RISE AND RUN OF STEPS			
Rise	Run	Rise	Run
6	18 3/8	6 1/8	11
6 1/8	18 3/8	7	10 3/4
6 1/4	18 1/8	7 1/8	10 5/8
6 3/8	11 7/8	7 1/4	10 3/8
6 1/2	11 5/8	7 3/8	10 1/4
6 5/8	11 1/2	7 1/2	10
6 3/4	11 1/4		



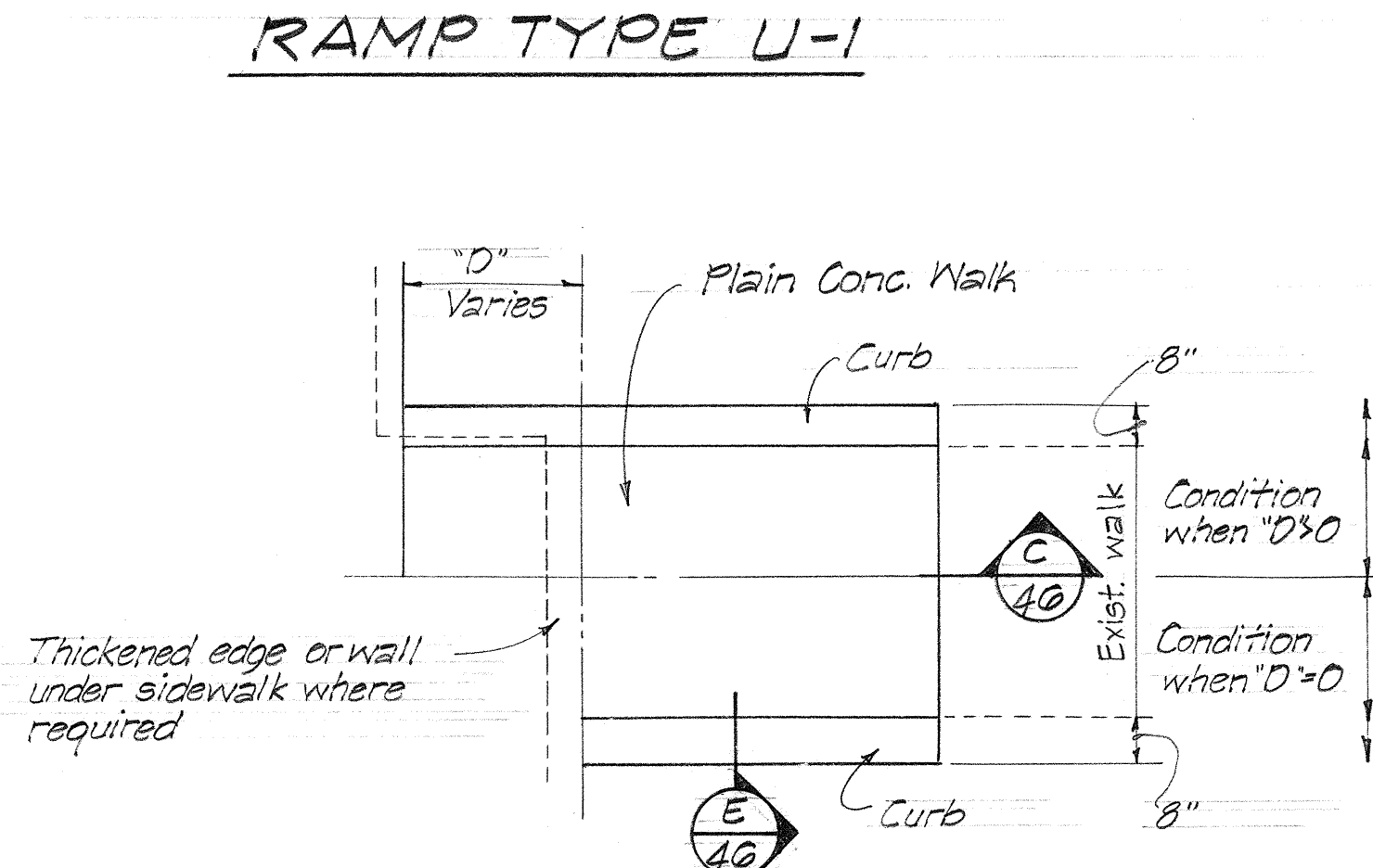
RAMP TYPE D-1



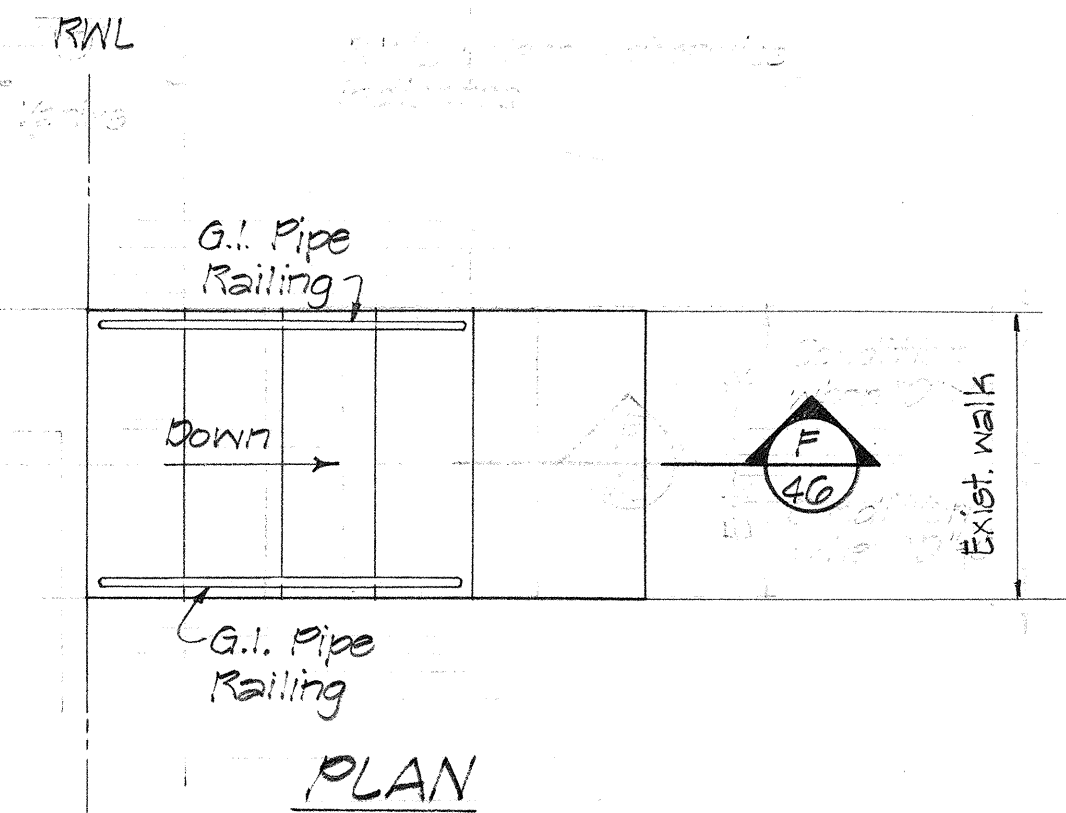
RAMP TYPE U-1



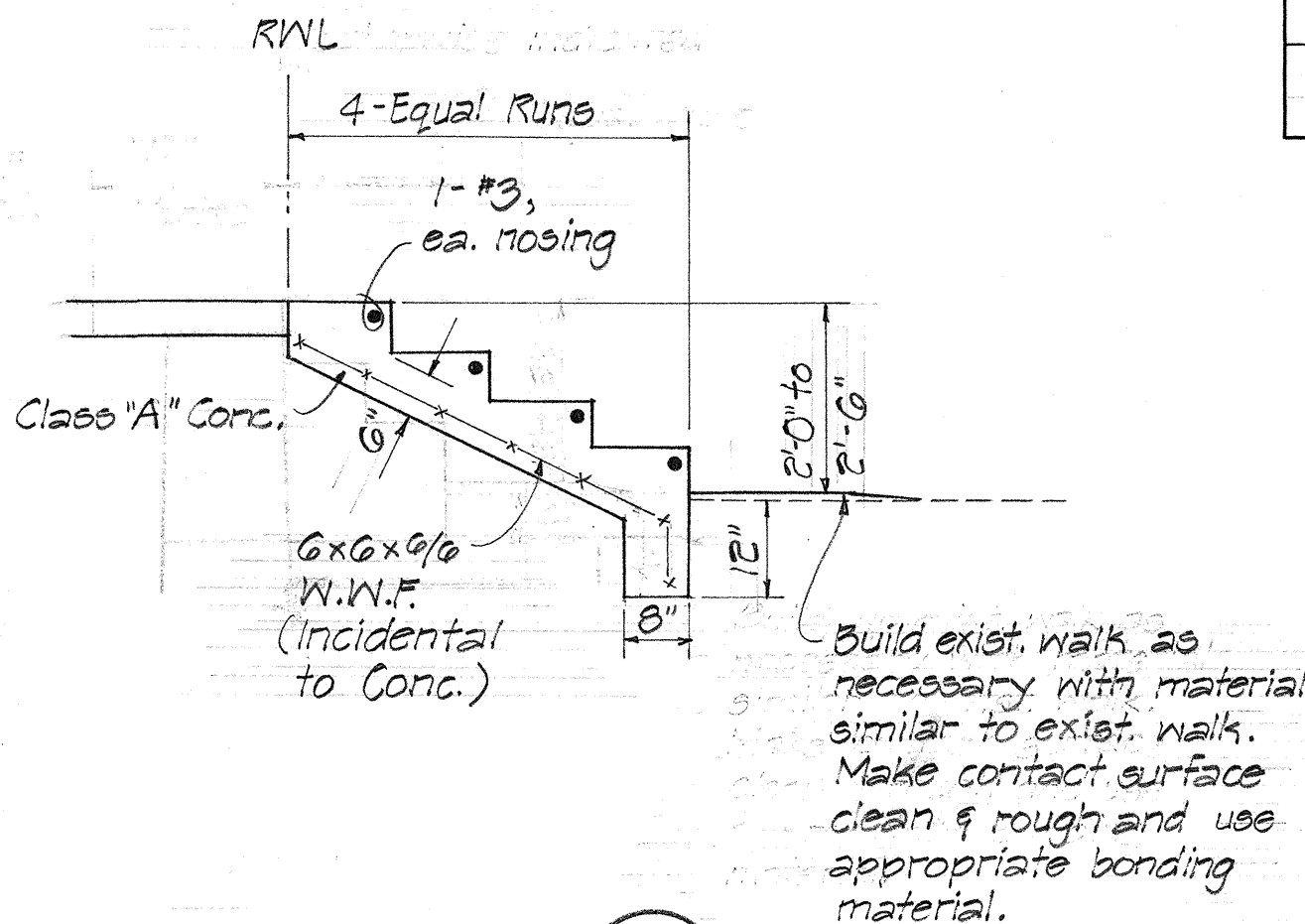
RAMP TYPE U-2



RAMP TYPE U-2



STEP TYPE D-2



SECTION F 46



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Paul T. Taniguchi

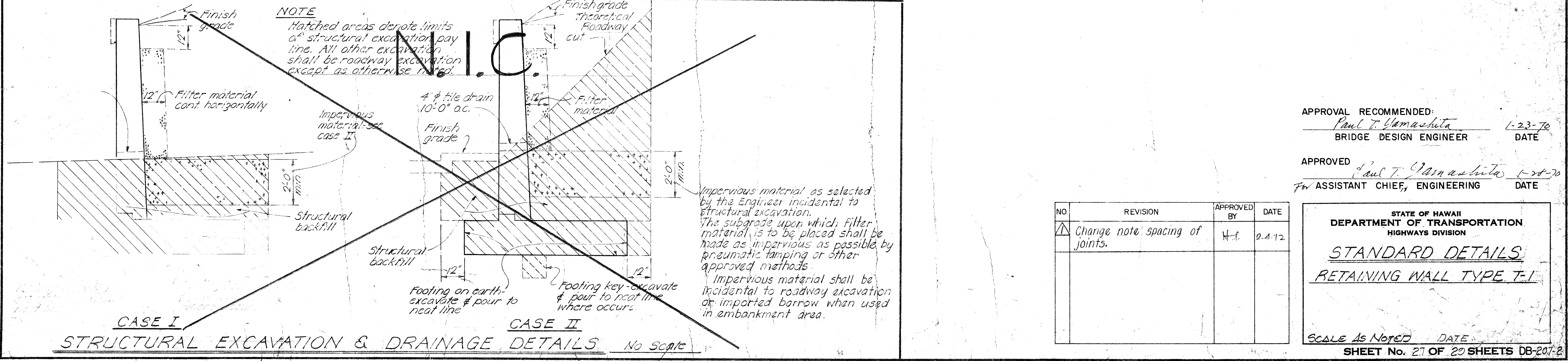
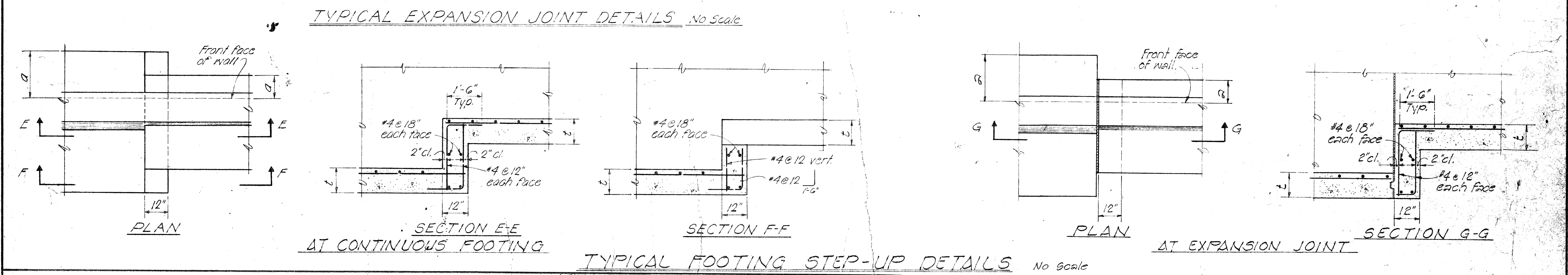
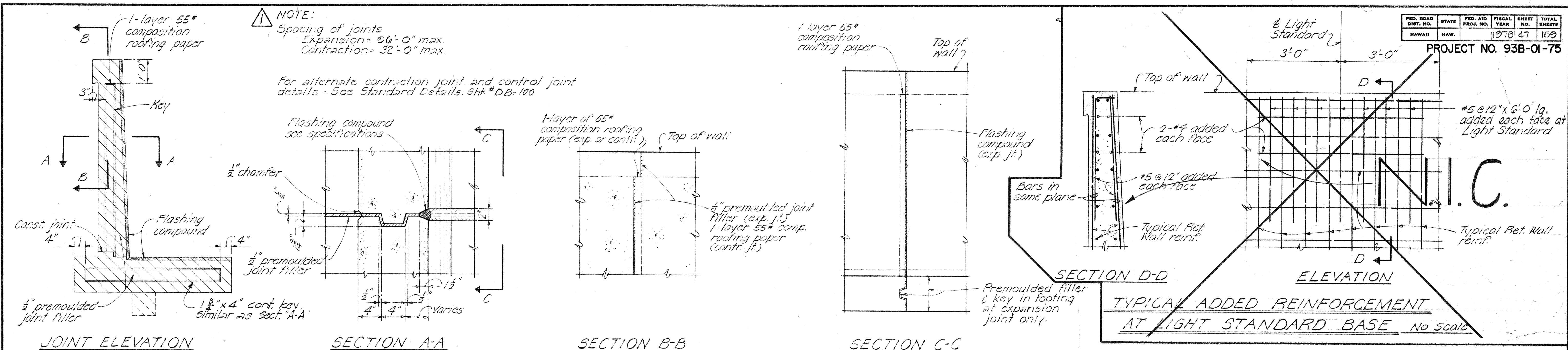
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALKWAY DETAILS
STANDARD DETAILS

FARRINGTON HIGHWAY WIDENING
LUALUAEI HOMESTEAD ROAD TO JADE STREET
PROJECT NO. 93B-01-75, UNIT I
SCALE: NO SCALE DATE:

SHEET NO. 20 OF 20 SHEETS

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



APPROVAL RECOMMENDED:
Paul T. Yamashita
BRIDGE DESIGN ENGINEER 1-23-70
DATE

APPROVED
Paul T. Yamashita
For ASSISTANT CHIEF, ENGINEERING 1-24-70
DATE

NO	REVISION	APPROVED BY	DATE
1	Change note spacing of joints.	H.T.	2.4.72

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

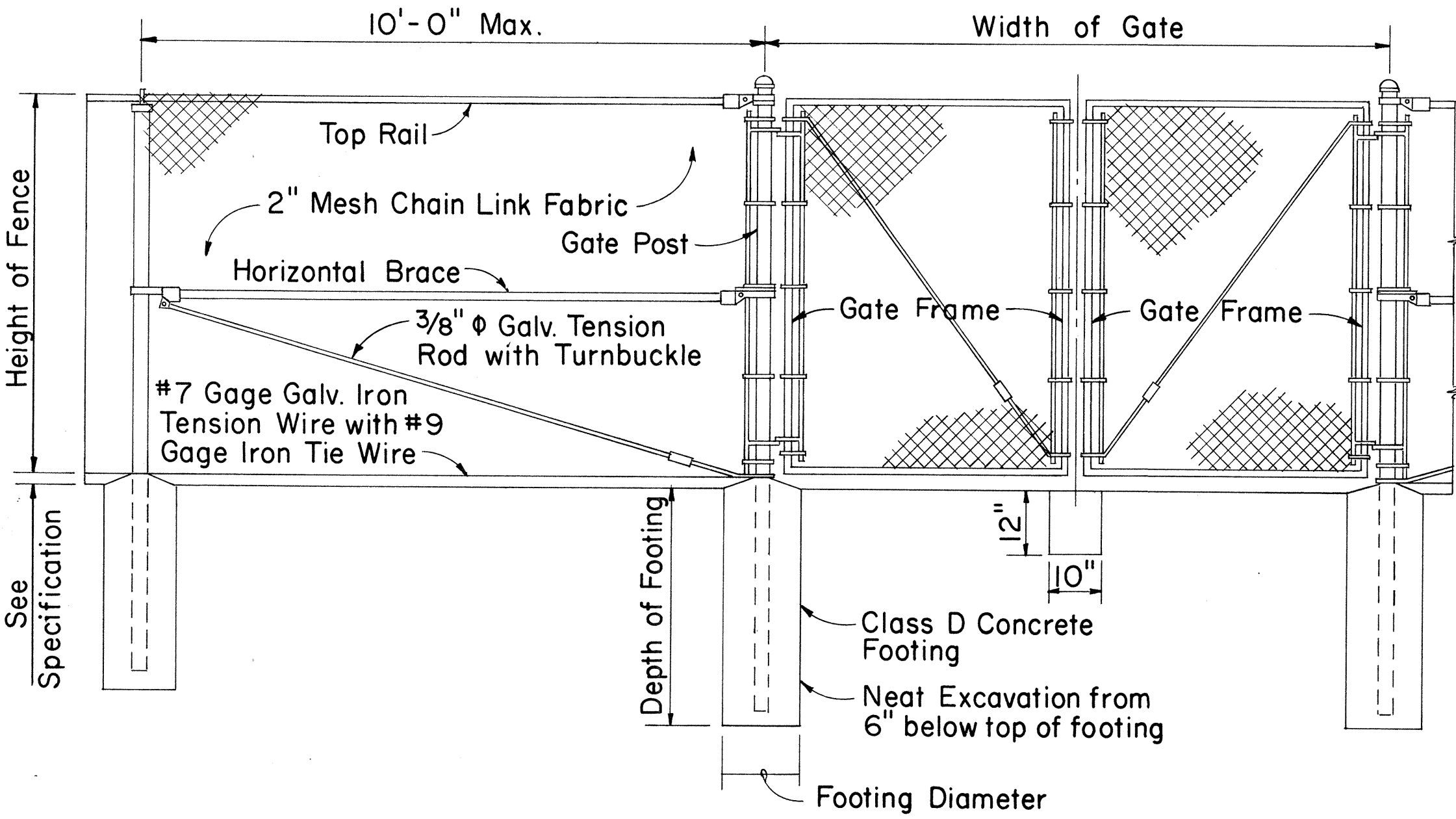
STANDARD DETAILS
RETAINING WALL TYPE T-1

SCALE AS NOTED DATE
SHEET No. 27 OF 20 SHEETS DB-207-2

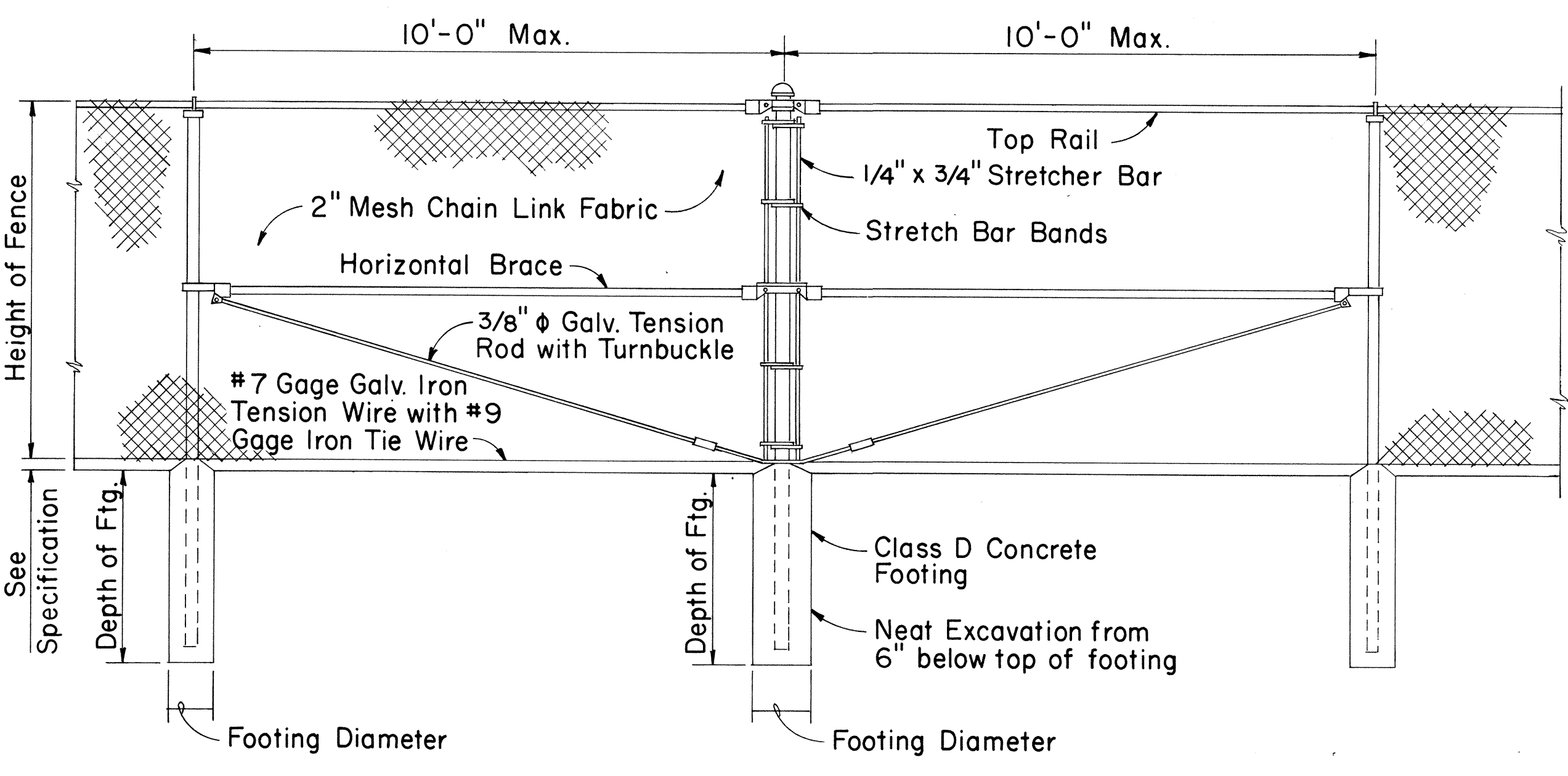
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	48	150

PROJECT NO. 93B-01-75

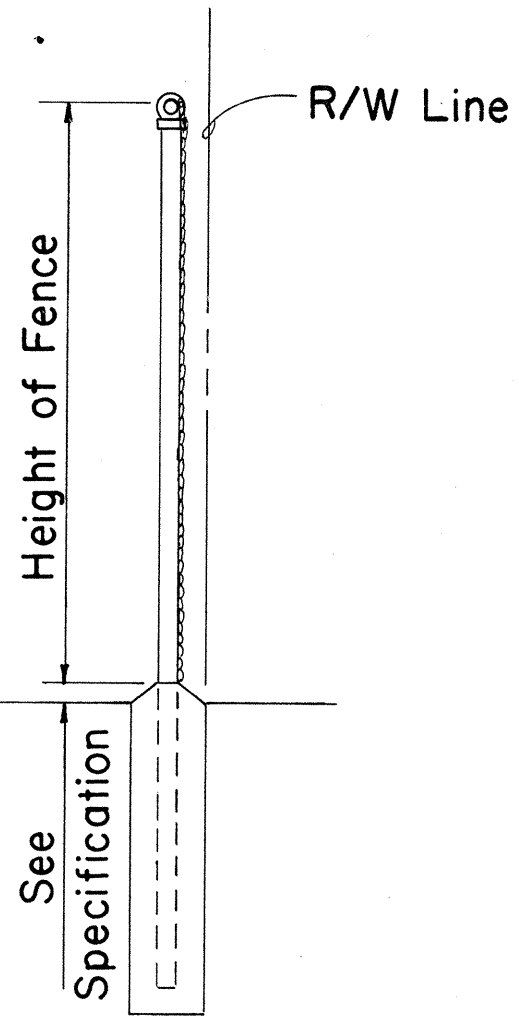


LINE POST GATE POST GATE POST



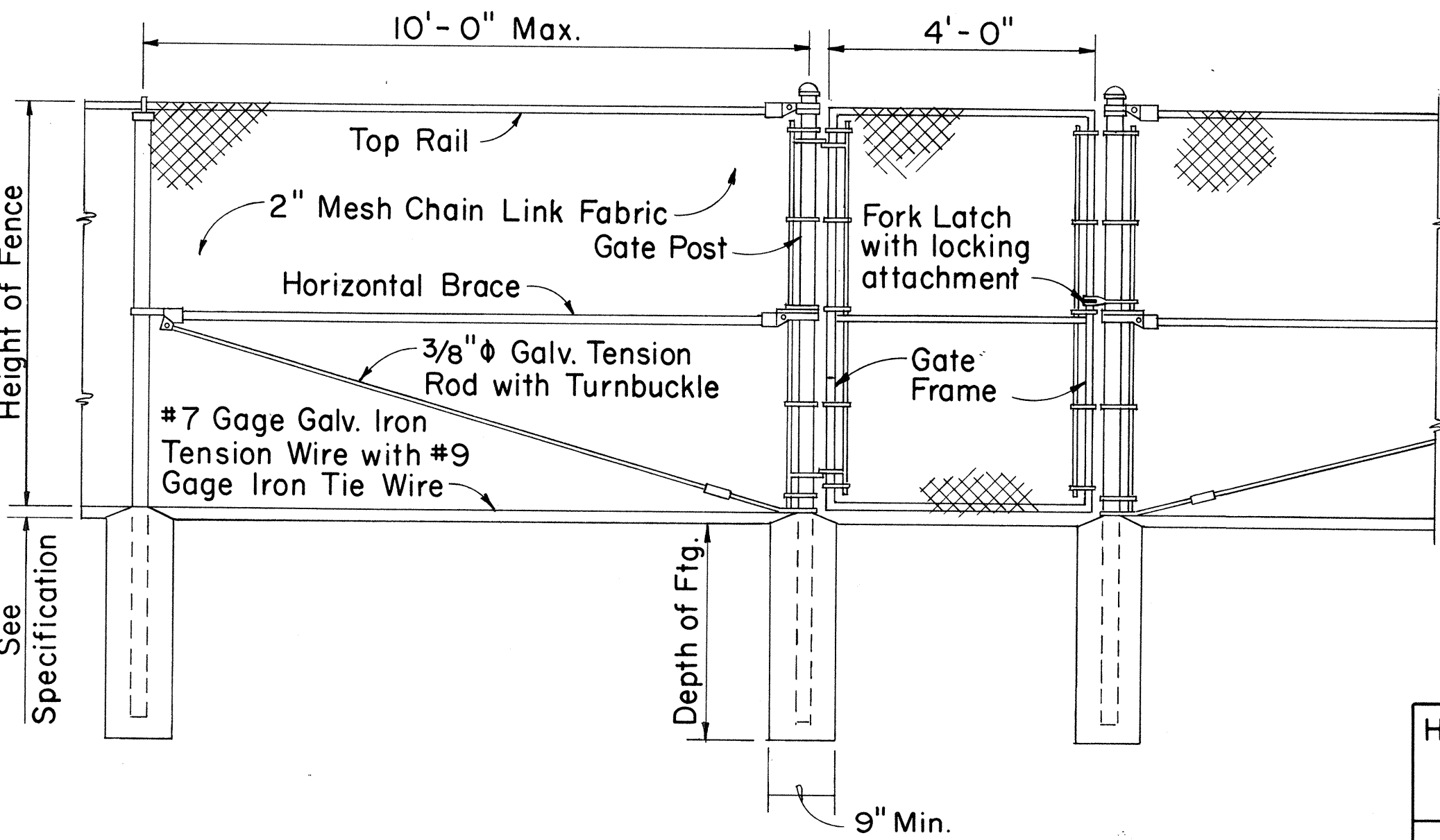
LINE POST PULL POST LINE POST

TYPICAL SECTION
(WITH CONCRETE FOOTING)



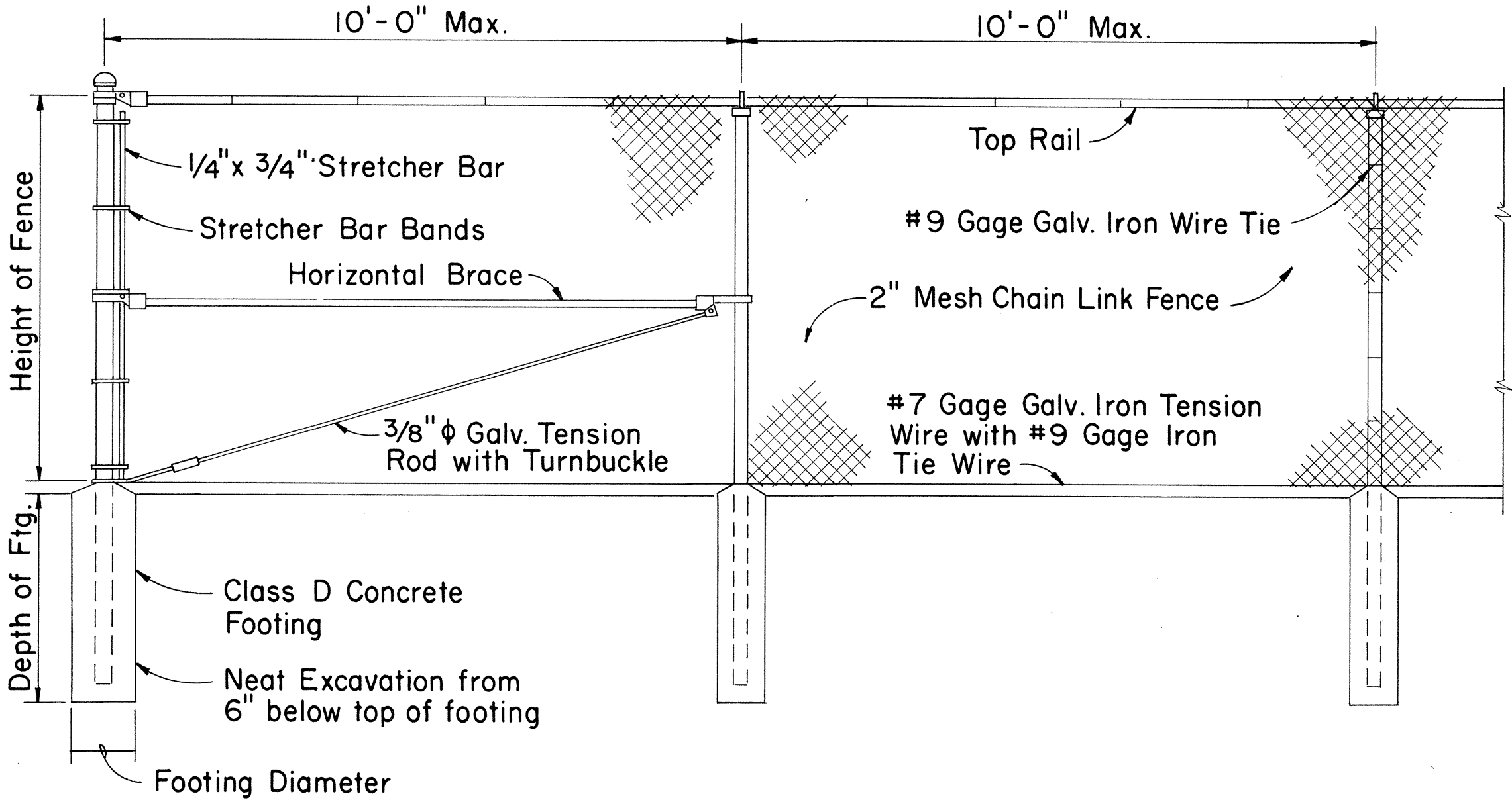
DETAIL OF CHAIN LINK GATE

- NOTE: 1. Gate fork latch and lock, flush plate and anchor, and plunger shall be installed with Gates, and shall be considered as incidental to Chain Link Fence Gate.
2. Gate frames shall be mitered and welded at corners.
3. Fence detail not shown shall be in accordance with the Standard Specifications.

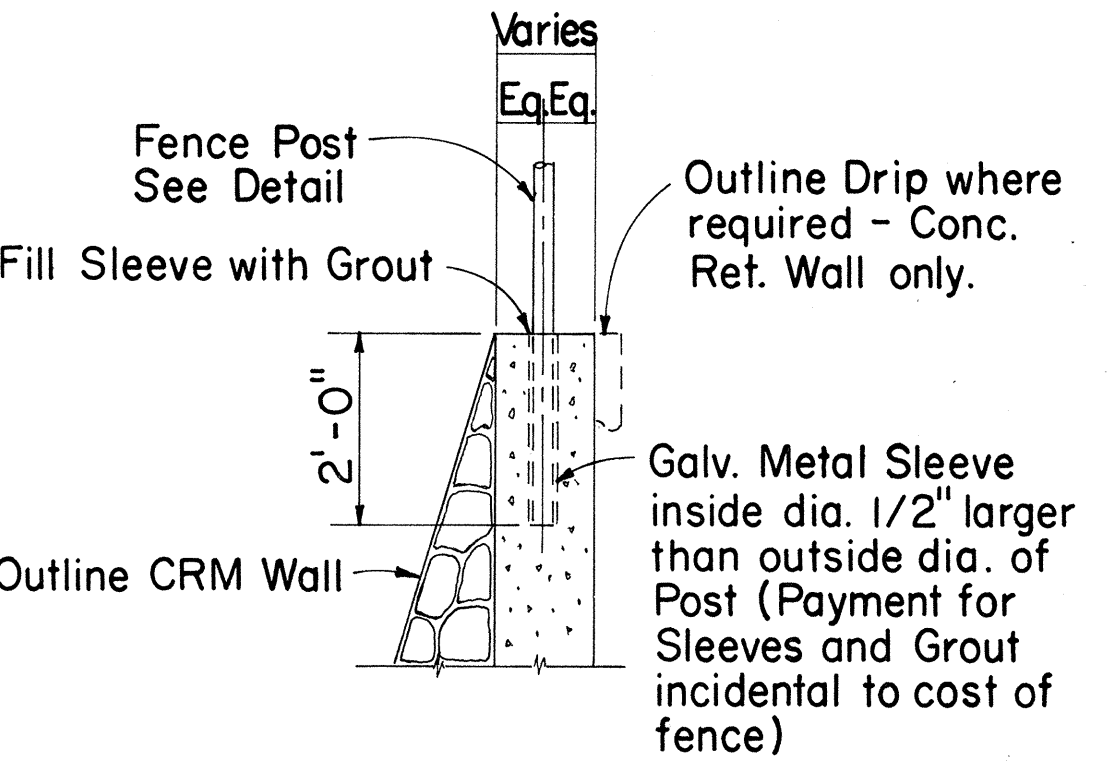


LINE POST GATE POST GATE POST

DETAIL OF 4 FT. CHAIN LINK GATE



END POST LINE POST LINE POST



TYPICAL SECTION
(ON CRM & CONC. RET. WALL)

CHAIN LINK FENCE DETAILS

Height of Fence	Minimum Depth of Footing		Minimum Footing Diameter	
	Line Post	Corner, Pull, End and Gate Posts	Line Post	Corner, Pull and End Posts
3'	2'-0"	2'-6"	8"	8"
4'	2'-6"	2'-6"	8"	8"
5'	3'-0"	3'-0"	8"	8"
6'	3'-0"	3'-0"	8"	9"

APPROVAL RECOMMENDED: *M. H. Hagan* 12-4-69
HIGHWAY DESIGN ENGINEER DATE
APPROVED: *John B. Schall* 12-10-69
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

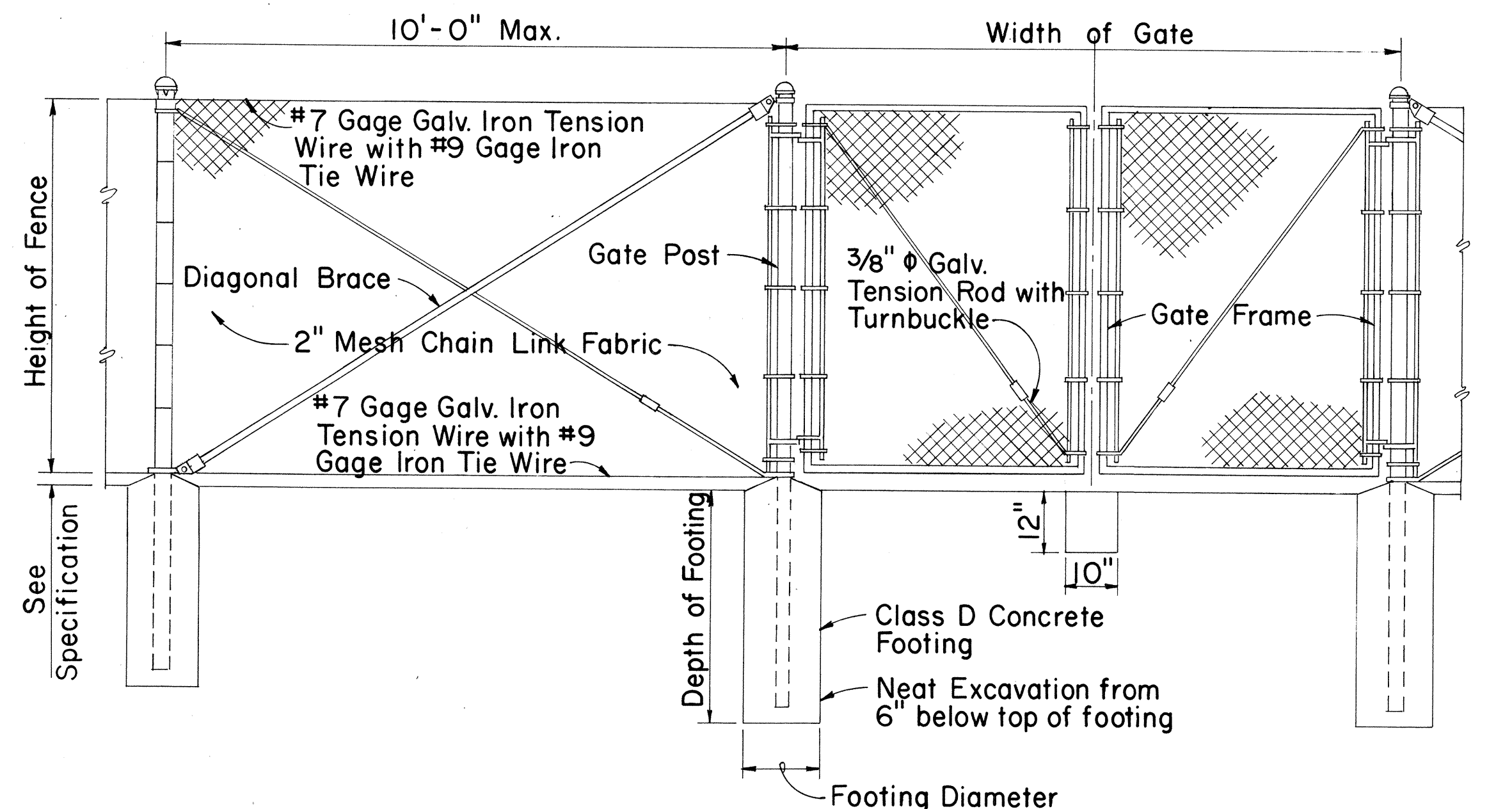
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
CHAIN LINK FENCE
(WITH TOPRAIL)

Scale: 1/2" = 1'-0" Date:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1978	49	150

PROJECT NO. 93B-01-75



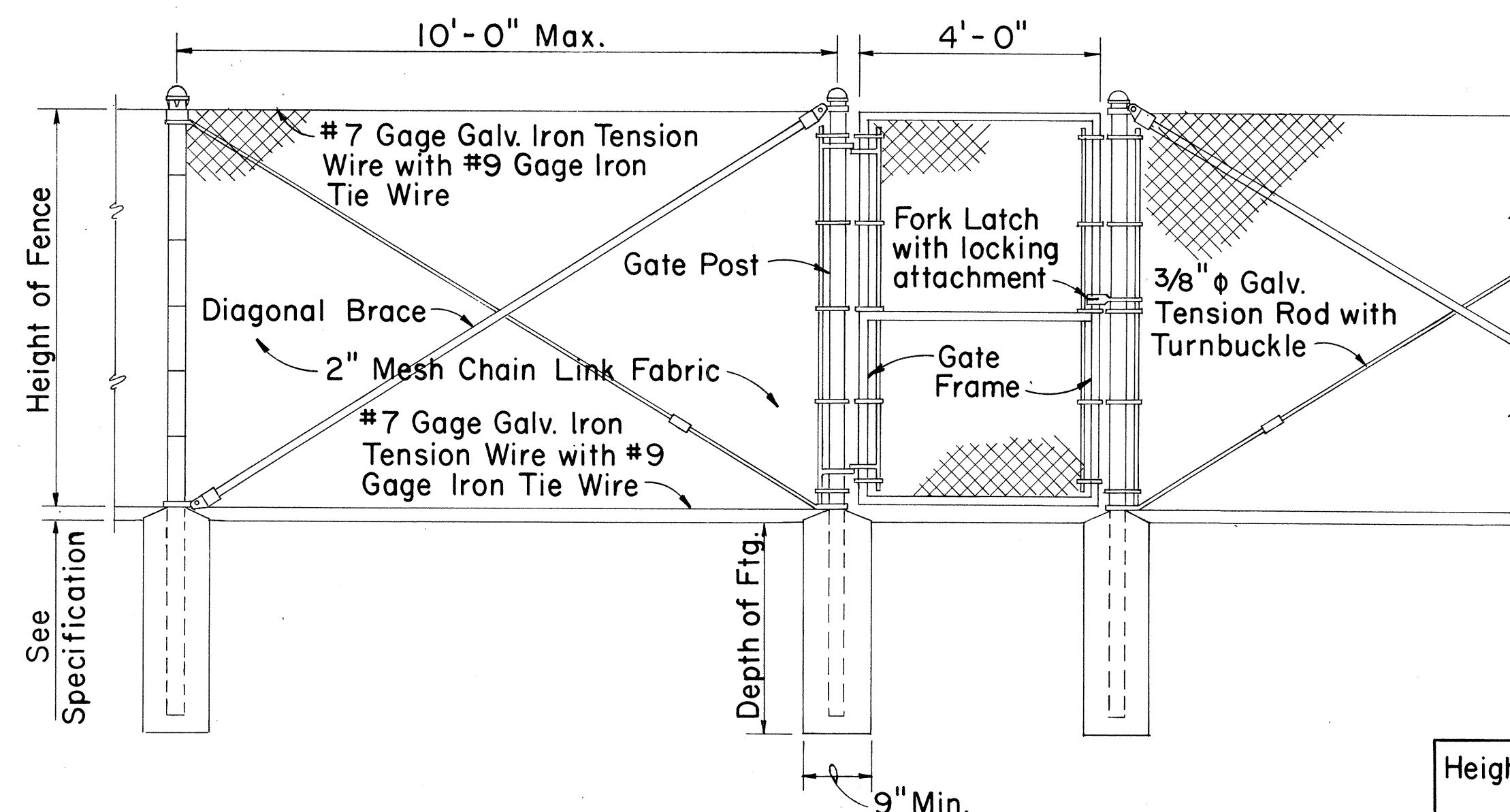
LINE POST

GATE POST

GATE POST

DETAIL OF CHAIN LINK GATE

- NOTE: 1. Gate fork latch and lock, flush plate and anchor, and plunger shall be installed with Gates, and shall be considered as incidental to Chain Link Fence Gate.
2. Gate frames shall be mitered and welded at corners.
3. Fence detail not shown shall be in accordance with the Standard Specifications.

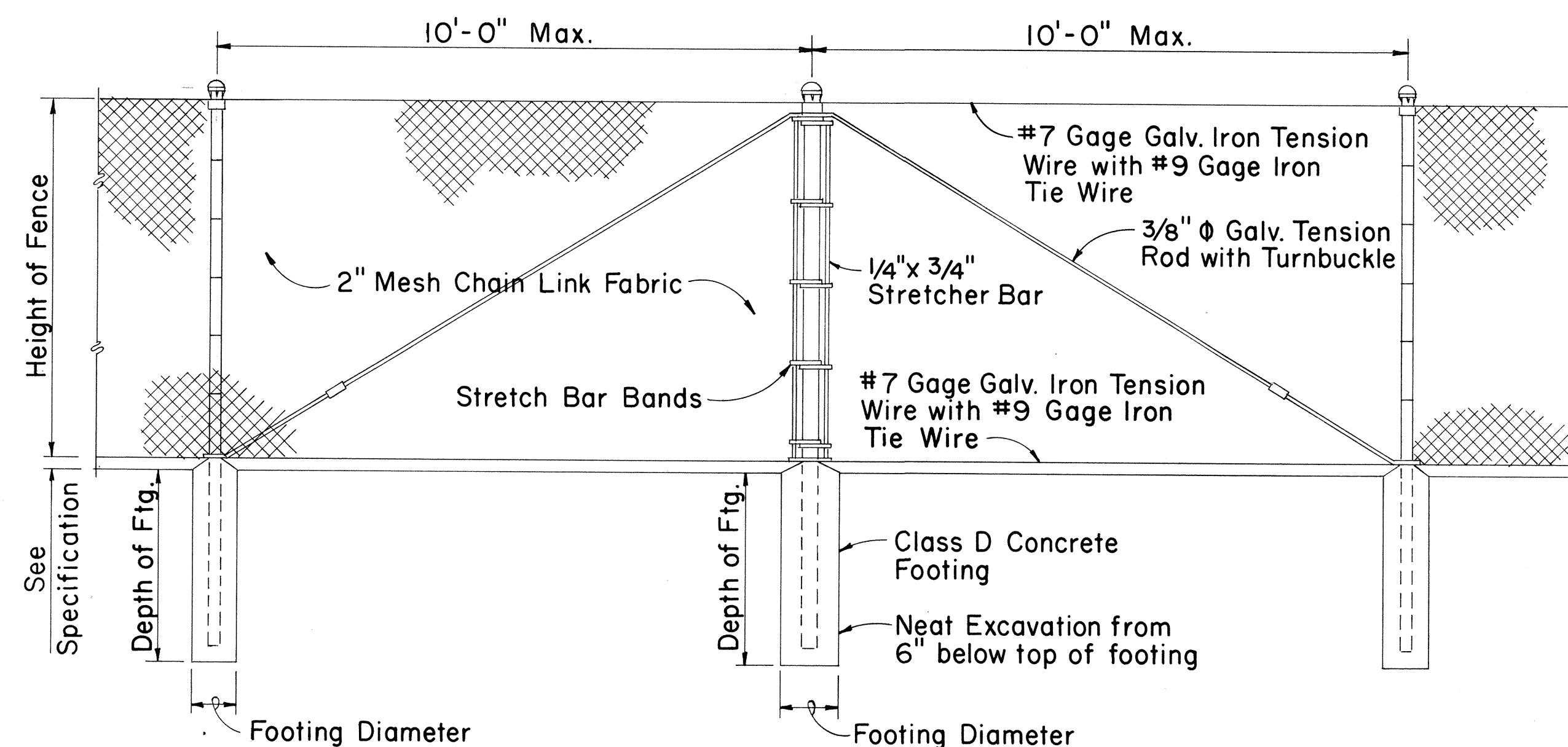


LINE POST

GATE POST

GATE POST

DETAIL OF 4 FT. CHAIN LINK GATE

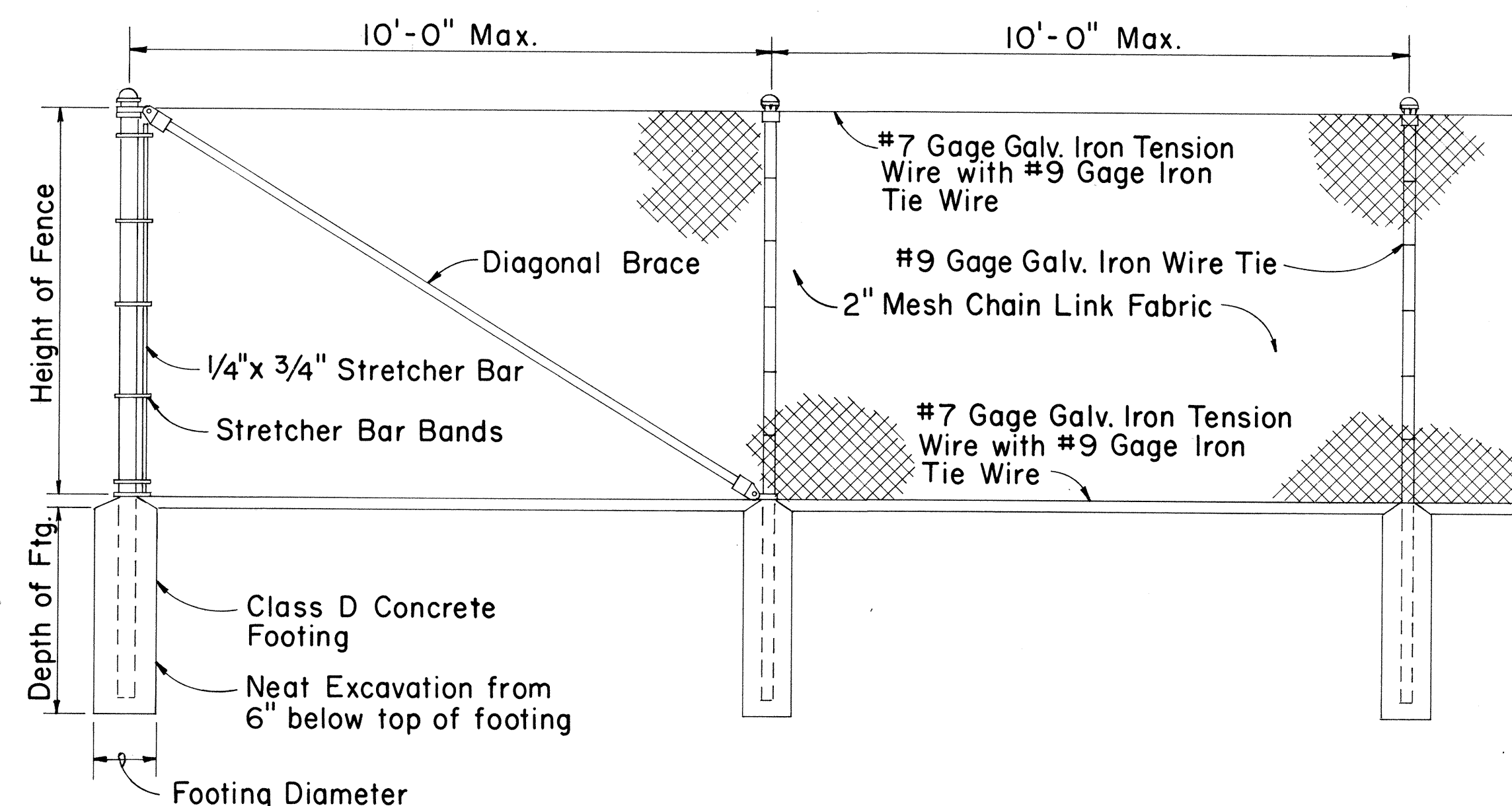


LINE POST

PULL POST

LINE POST

TYPICAL SECTION (WITH CONCRETE FOOTING)



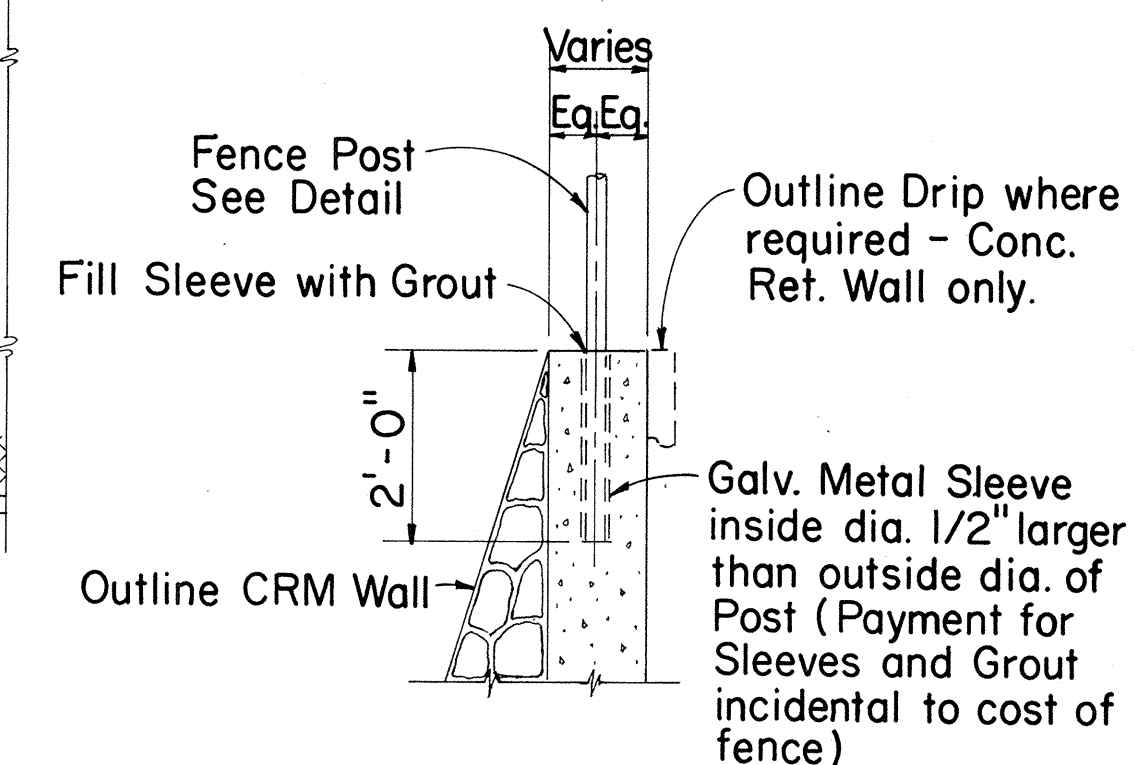
END POST

LINE POST

LINE POST

CHAIN LINK FENCE DETAILS

Height of Fence	Minimum Depth of Footing		Minimum Footing Diameter	
	Line Post	Corner, Pull, End and Gate Posts	Line Post	Corner, Pull and End Posts
3'	2'-0"	2'-6"	8"	8"
4'	2'-6"	2'-6"	8"	8"
5'	3'-0"	3'-0"	8"	8"
6'	3'-0"	3'-0"	8"	9"



TYPICAL SECTION (ON CRM & CONC. RET. WALL)

APPROVAL RECOMMENDED:
HIGHWAY DESIGN ENGINEER
DATE 12-4-69

APPROVED:
ASSISTANT CHIEF, ENGINEERING
DATE 12-10-69

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
CHAIN LINK FENCE
(WITHOUT TOPRAIL)

Scale: 1/2" = 1'-0" Date: