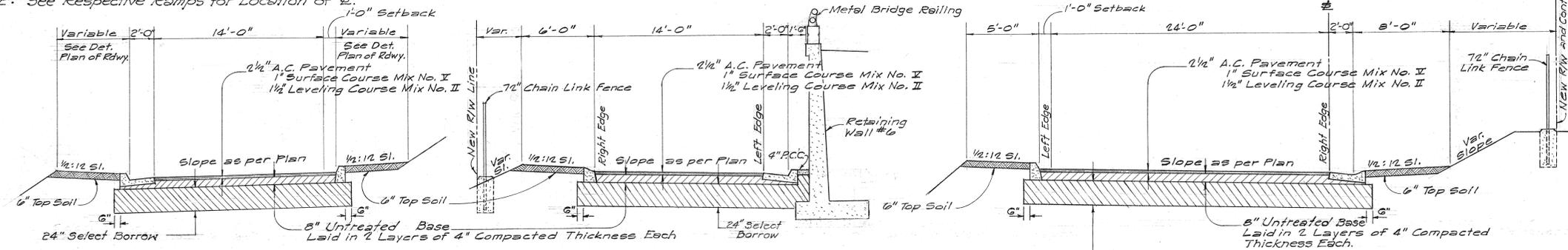


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(B)	1963	2	246
		U-098-1(A)	1963	2	58
		F-090-1(B)	1963	2	93

NOTE: See Respective Ramps for Location of $\frac{1}{2}$.

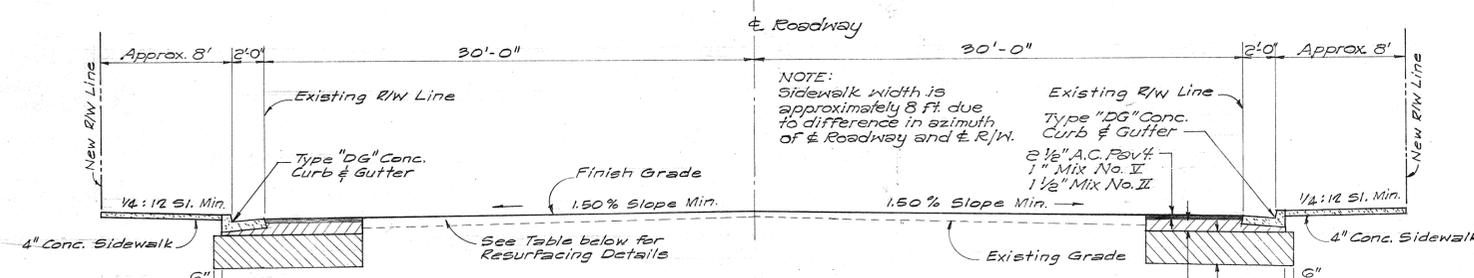


NOTE: 1'-0" Setback typical except for Ramp "2"
TYPICAL SECTION (RAMPS "1", "2", "3", "4", "7")
 Scale: 3/16" = 1'-0"

TYPICAL SECTION (RAMP "5")
 Scale: 3/16" = 1'-0"

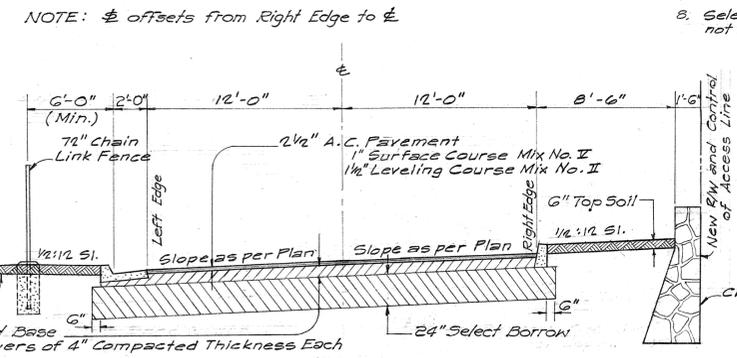
TYPICAL SECTION (RAMP "6")
 Scale: 3/16" = 1'-0"

- ### GENERAL NOTES
- Asphalt Concrete Pavement shall be of thickness shown fully compacted.
 - Surface of existing pavement shall be broomed and given a tack coat of 0.25 gal. per sq. yd. of Emulsified Asphalt, Mixing Type, before laying variable thickness of A.C. Mix No. II Leveling Course or A.C. Mix No. II Surface Course wherever the latter mix is placed directly on existing pavement.
 - Medium Curing Liquid Asphalt (MC-O) for Prime Coat shall be applied to the surface of Untreated Base at the rate of 0.35 gal. per sq. yd. before placing Leveling Course.
 - Portland Cement Concrete Pavement shall not be reinforced with bars or wire mesh except where reinforcement is required by the Engineer for protection of certain sub-structures. No longitudinal contact joints are permitted - pavement shall be paved full width. "Weakened Plane Joints" shall be installed approximately 15 ft. on centers. No Expansion Joints are required. All P.C.C. pavements to be 8" thick unless otherwise noted.
 - Excavation: All excavations shall be Class "A" Excavation.
 - Irregularities of existing pavements shall be leveled with A.C. Mix No. II before laying Surface Course using Mix No. I. Where Untreated Base is to be laid over existing pavement, such pavement shall be removed and sub-grade rolled prior to placing of Untreated Base. Untreated Base shall be placed in layers of not over 4" compacted thickness, unless otherwise noted.
 - Wherever Type "A" Conc. Curb is shown, this curb shall be as shown on the Standard Details, except that recesses shall be omitted.
 - Select Borrow Subbase material shall be placed in uniform layers not exceeding 6 inches after compaction.



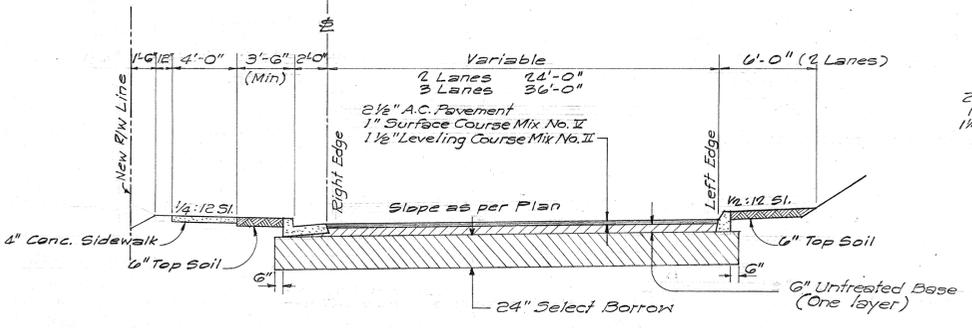
Grade Differential	Resurfacing
0 to 1/2"	Mix No. I
1/2" to 4"	Mix No. II & I
4" to 8"	0" to 4" UB with Mix II & I
8" to 24"	4" to 20" UB with Mix II & I

TYPICAL SECTION (LILIIHA STREET)
 Scale: 3/16" = 1'-0"

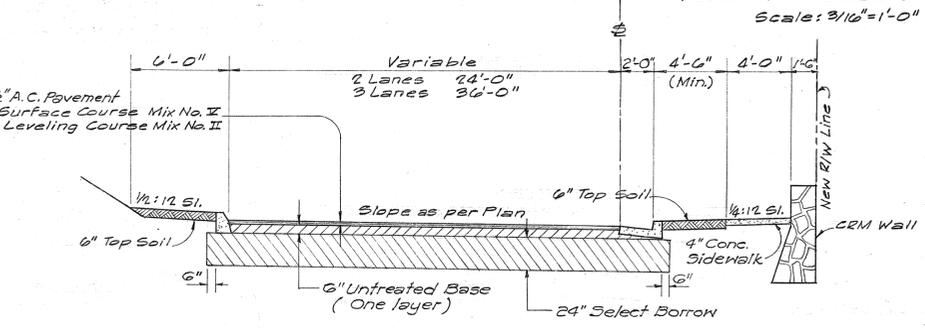


NOTE: $\frac{1}{2}$ offsets from Right Edge to $\frac{1}{2}$

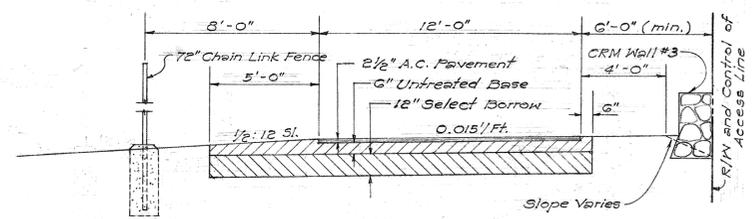
TYPICAL SECTION (LILIIHA ACCESS RD.)
 Scale: 3/16" = 1'-0"



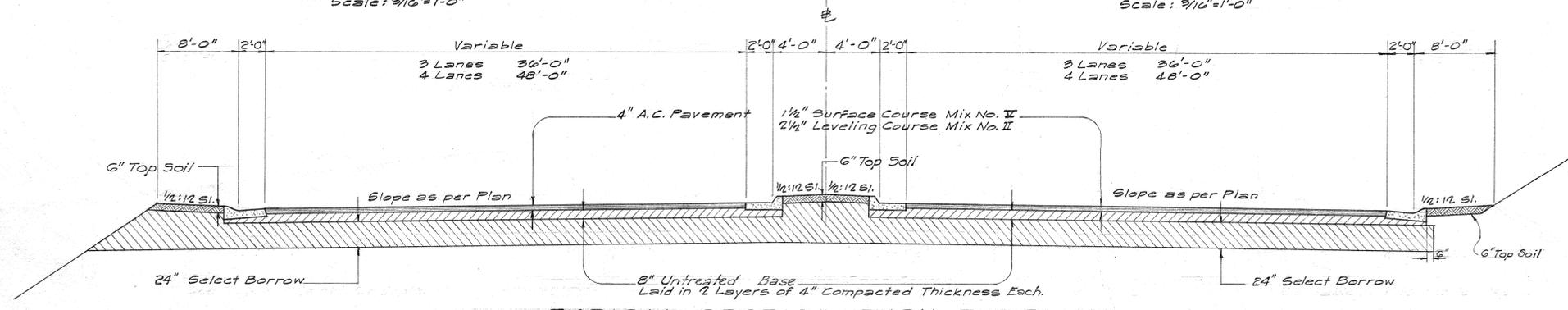
TYPICAL SECTION (NORTH FRONTAGE AND VINEYARD BLVD. - WESTBOUND)
 Scale: 3/16" = 1'-0"



TYPICAL SECTION (SOUTH FRONTAGE AND VINEYARD BLVD. - EASTBOUND)
 Scale: 3/16" = 1'-0"



TYPICAL SECTION OF LILIIHA FRONTAGE
 Scale: 1/4" = 1'-0"



TYPICAL SECTION THRU FREEWAY
 Scale: 3/16" = 1'-0"

NOTE: See DETAIL PLAN OF ROADWAY for Curb & Gutter Types, Cut & Fill slopes, Pavement slopes and width of pavement.

SURVEY PLOTTED BY: [Name]
 DESIGNED BY: [Name]
 TRACED BY: [Name]
 QUANTITIES BY: [Name]
 CHECKED BY: [Name]



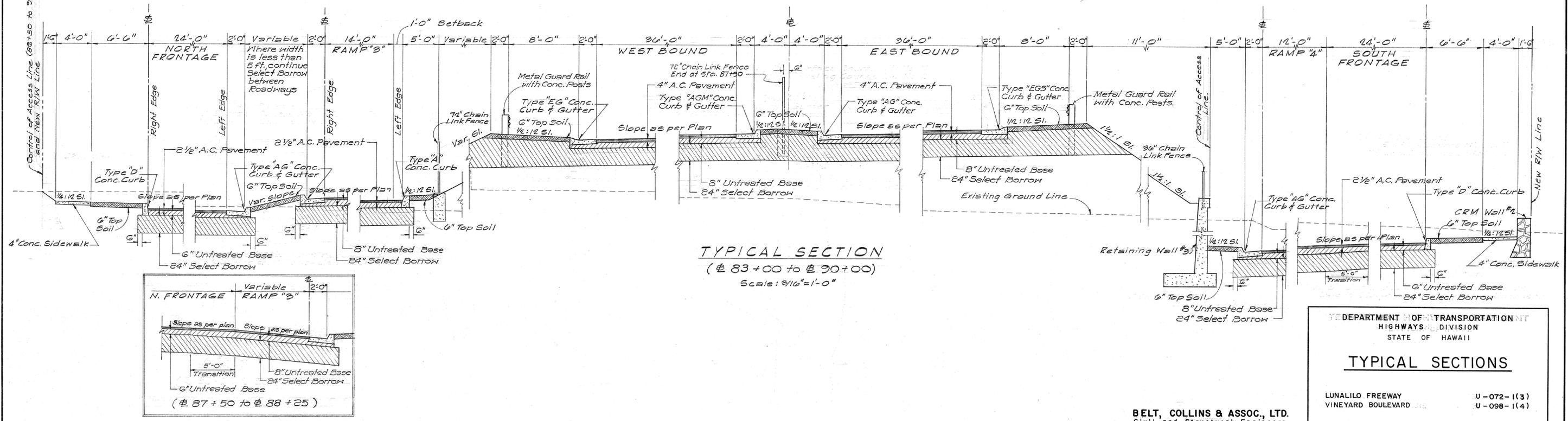
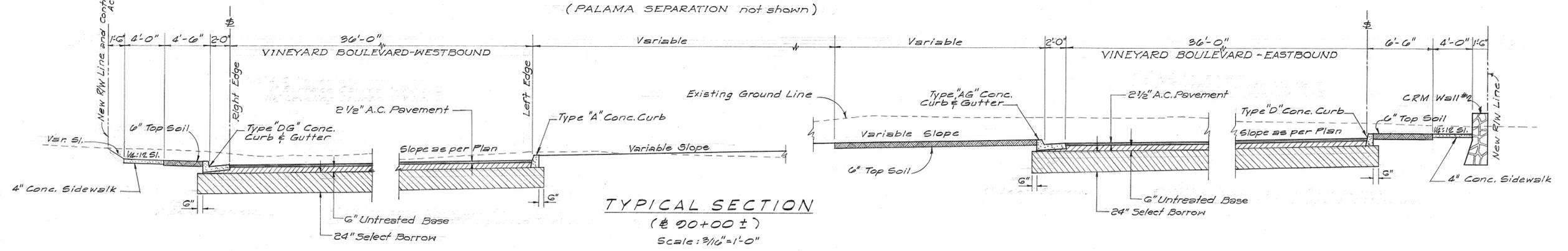
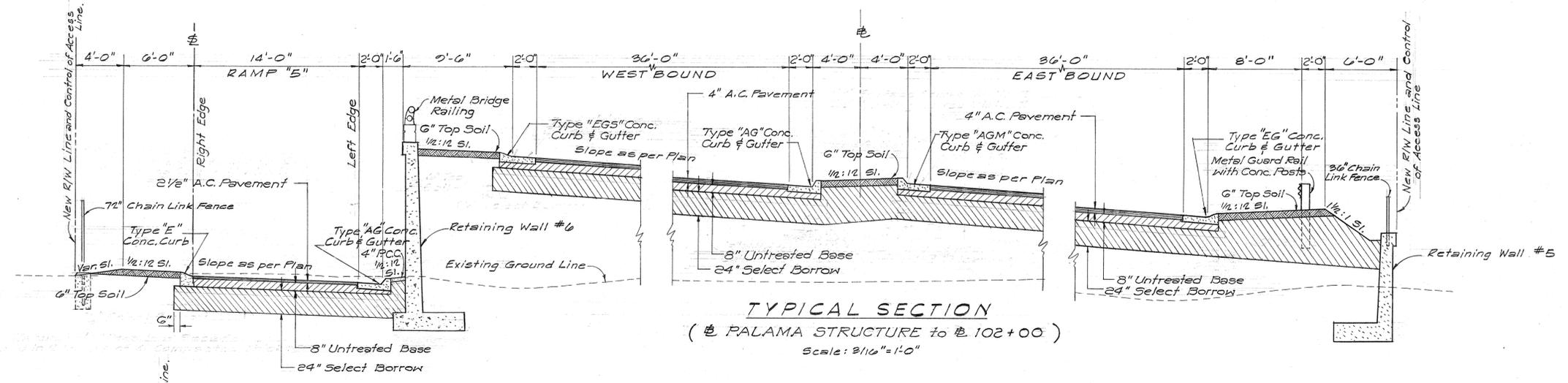
DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 STATE OF HAWAII

TYPICAL SECTIONS

LUNALILO FREEWAY U-072-1(3)
 VINEYARD BOULEVARD U-098-1(4)
 LILIIHA STREET F-090-1(2)

BELT, COLLINS & ASSOC., LTD.
 Civil and Structural Engineers

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1963	5	246
		U-098-1(4)	1963	3	68



SURVEY PLOTTED BY: [] DATE: []
 DESIGNED BY: []
 DRAWN BY: []
 QUANTITIES BY: []
 NOTE BOOK NO. []
 CHECKED BY: []

THE DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 STATE OF HAWAII
TYPICAL SECTIONS
 LUNALILO FREEWAY U-072-1(3)
 VINEYARD BOULEVARD U-098-1(4)

BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

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