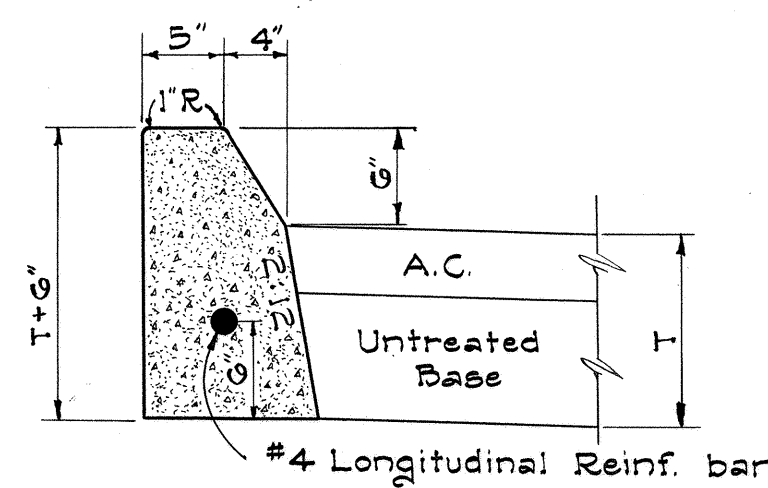
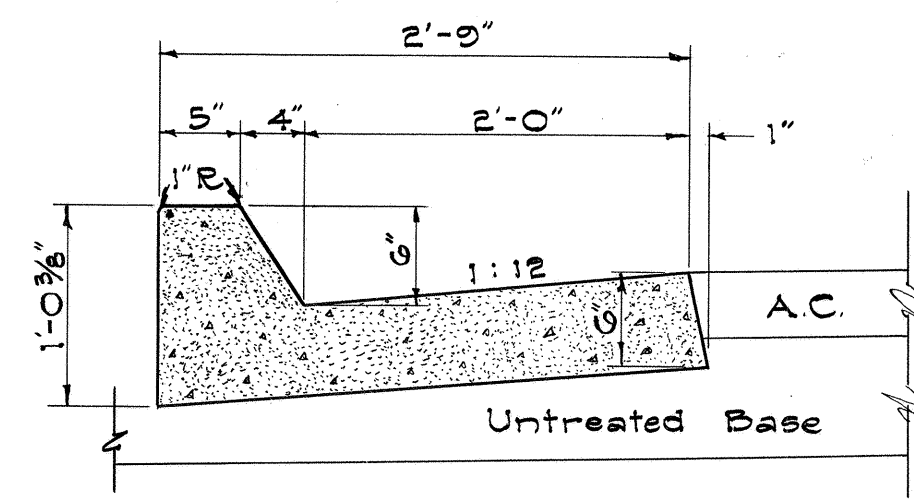
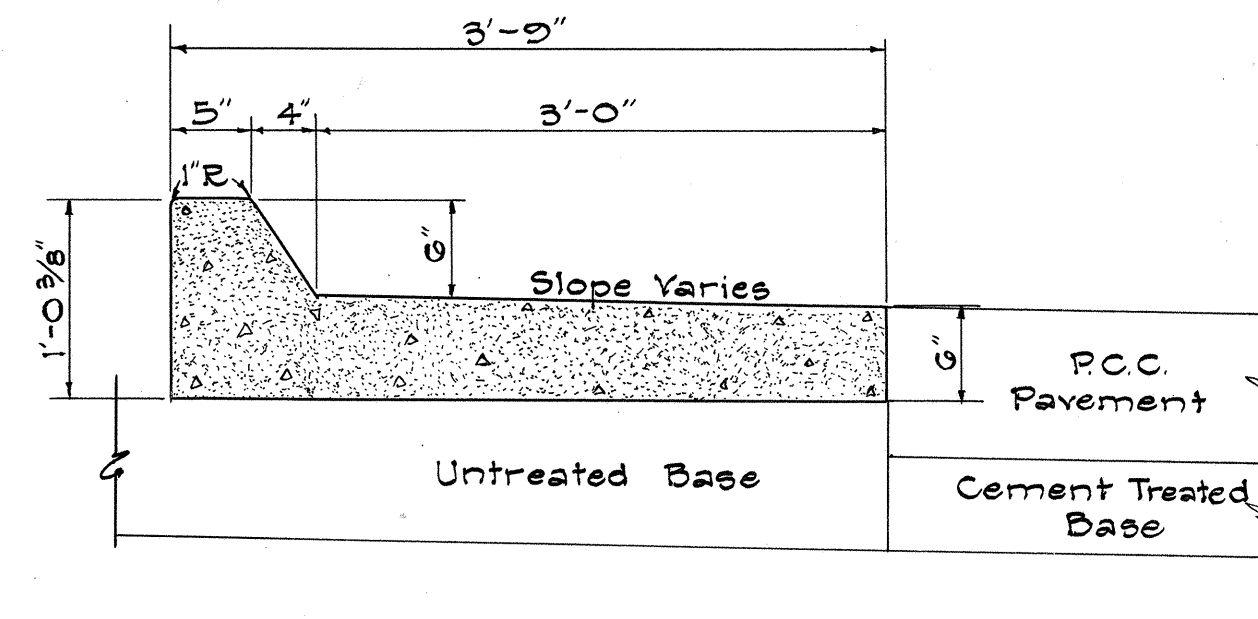




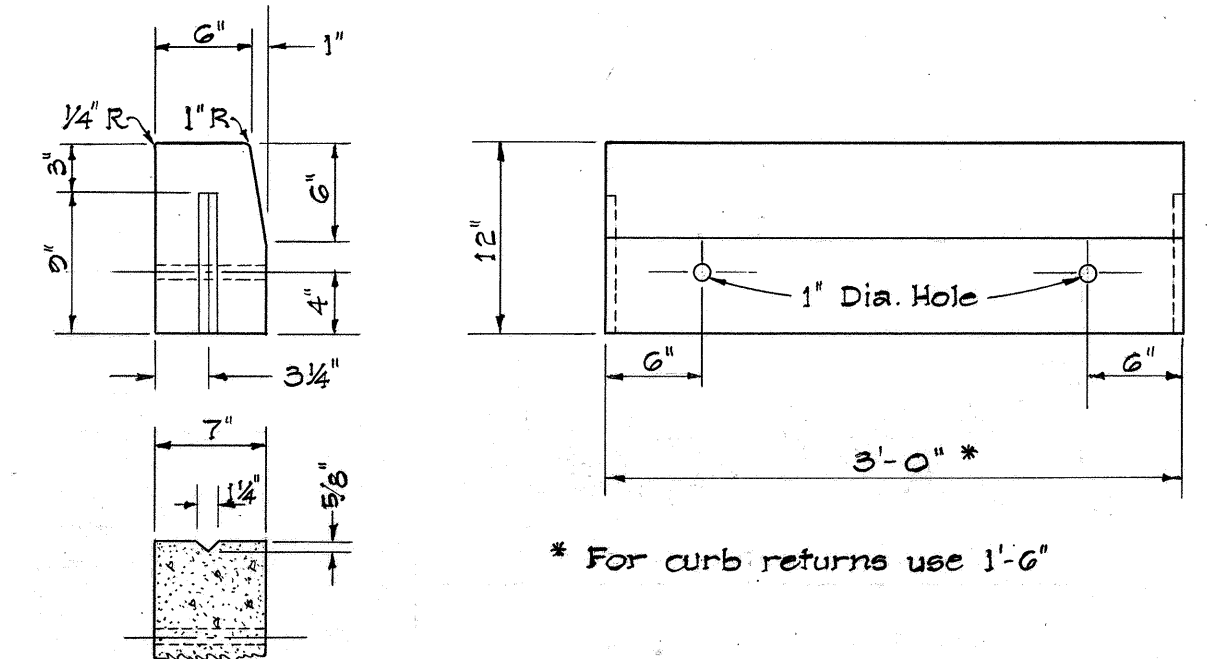
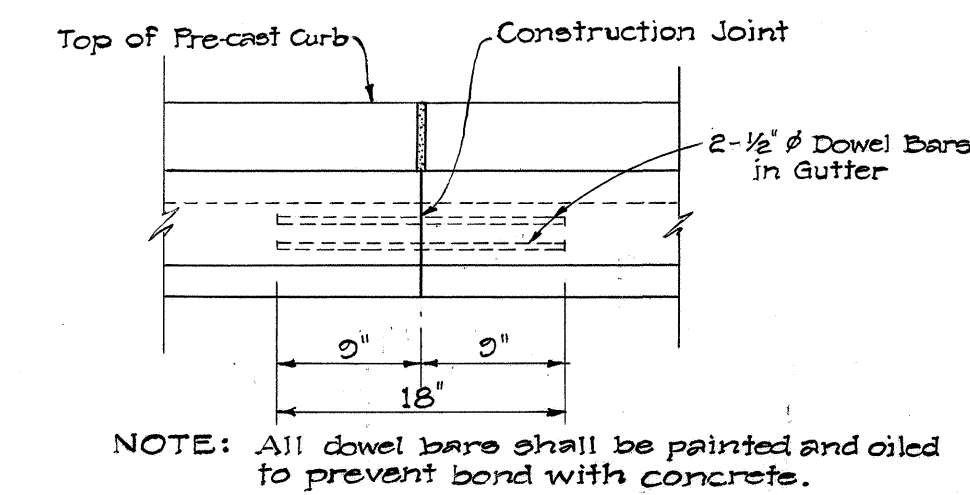
TYPE "A-1" CURB



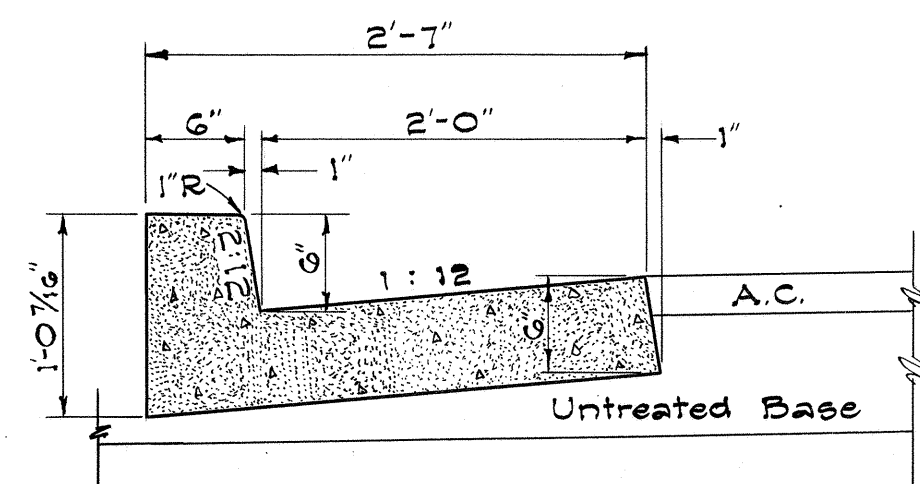
TYPE "A-2" CURB & GUTTER



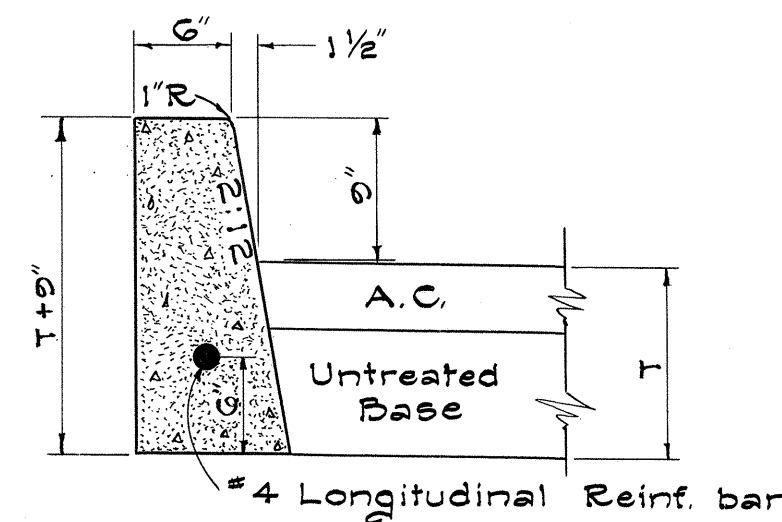
TYPE "A-3" CURB & GUTTER



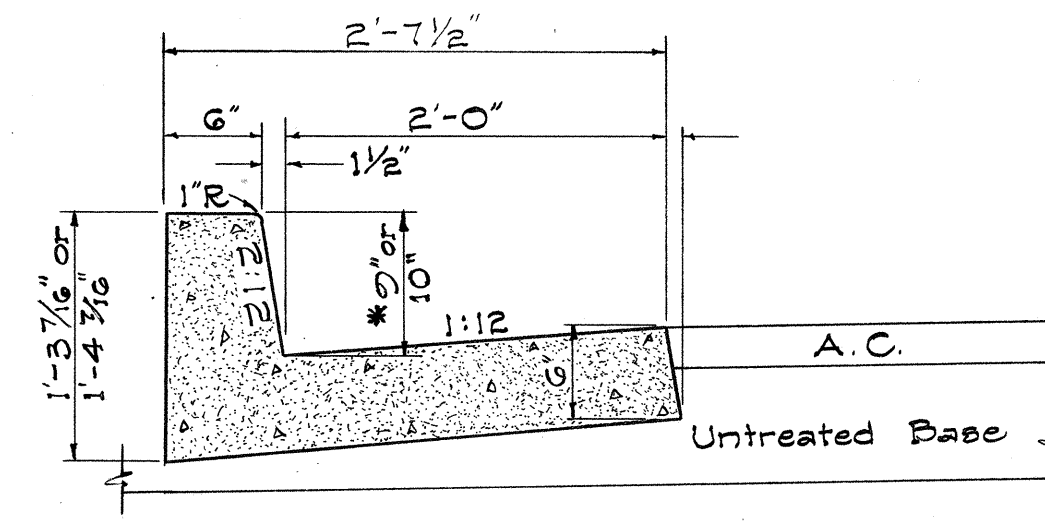
PRECAST CONCRETE CURB



TYPE "DG" CURB & GUTTER

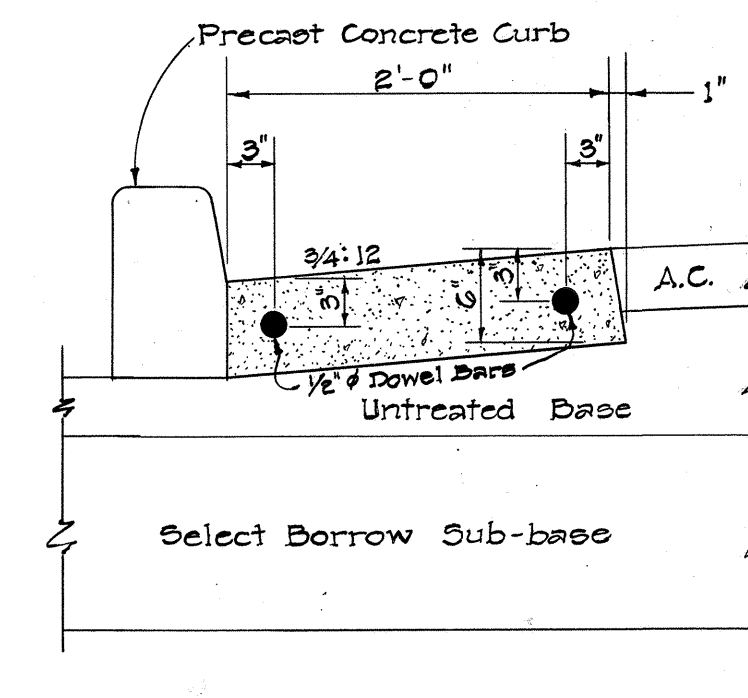


TYPE "DB" CURB

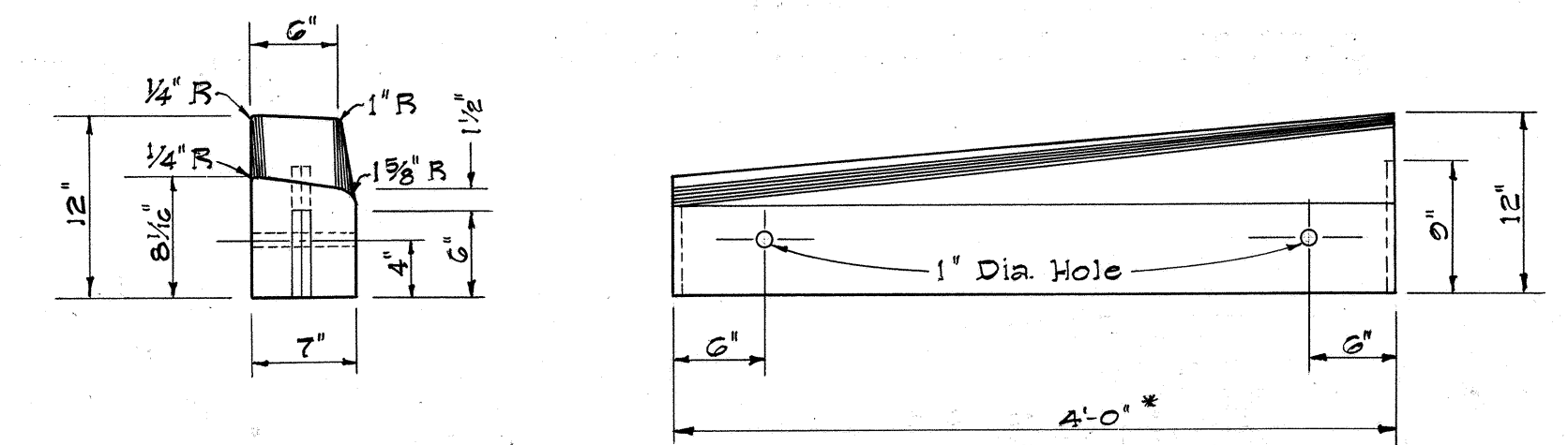


TYPE "DBG" CURB & GUTTER

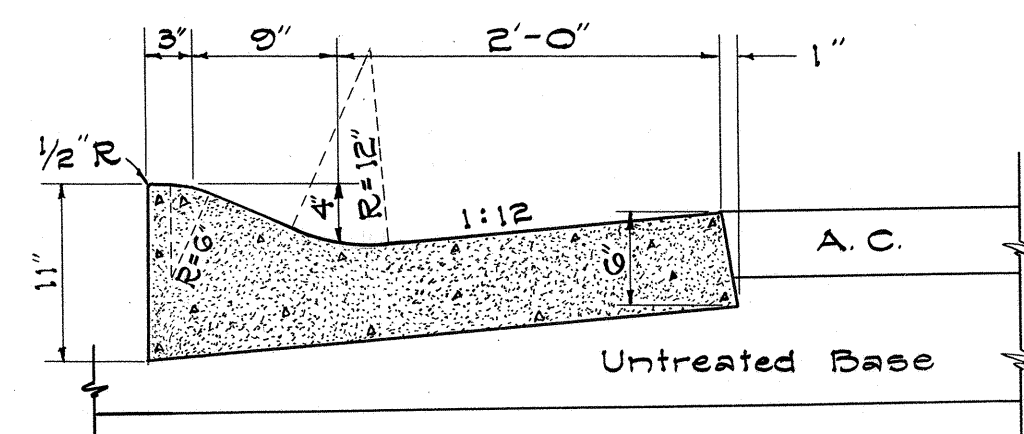
* NOTE: Match Bridge curbing



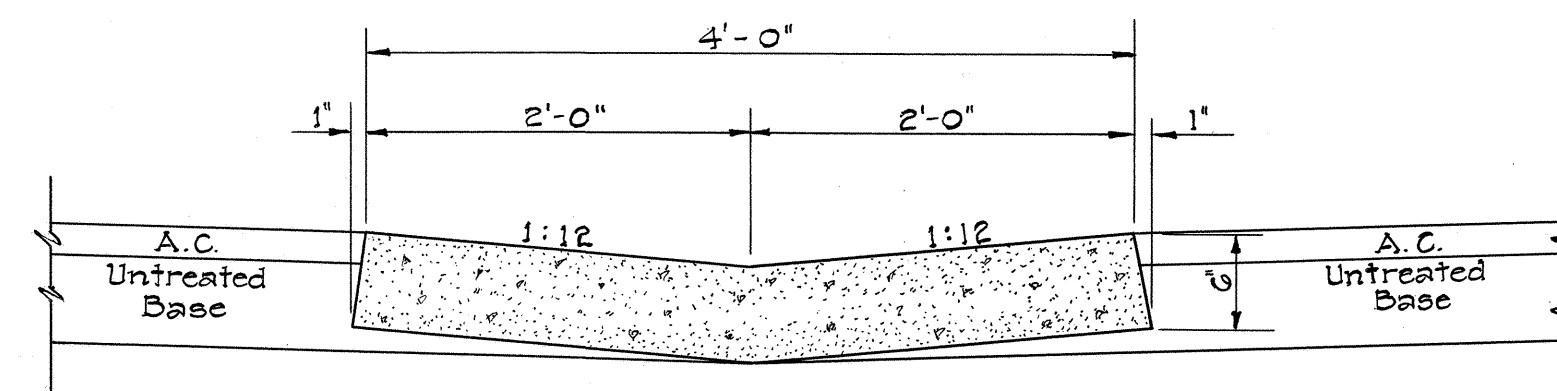
CONSTRUCTION JOINT DETAILS FOR TYPE "H" CAST-IN-PLACE GUTTER
Scale: 1" = 1'-0"



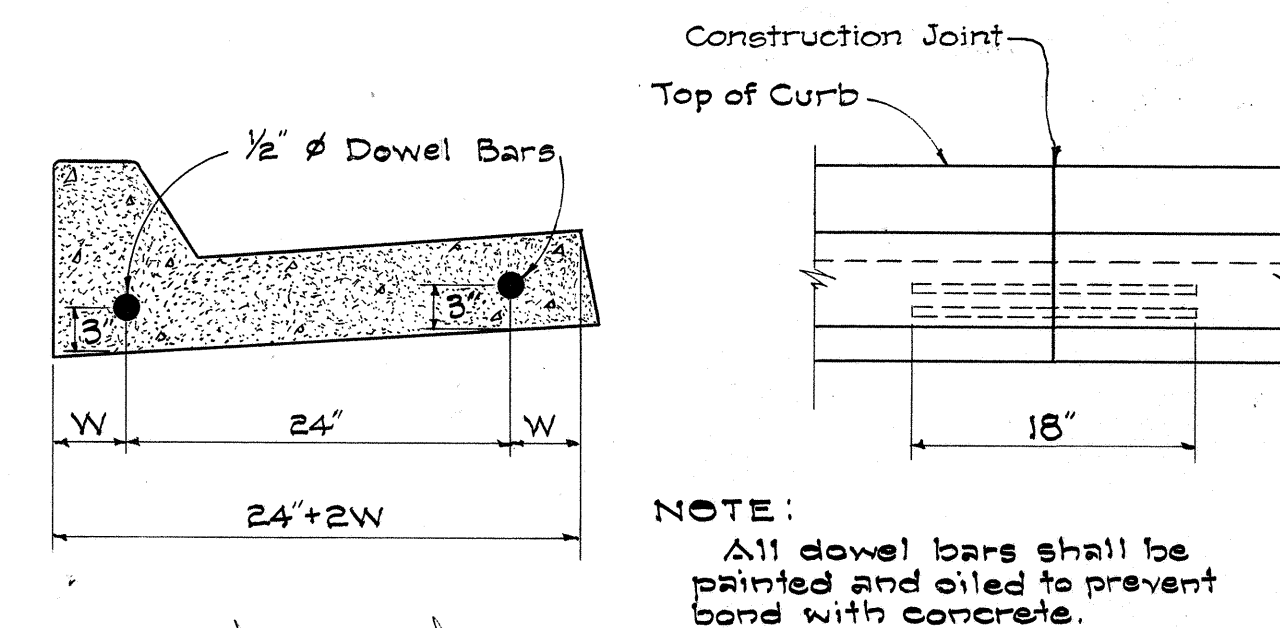
PRECAST CONCRETE DROP CURB



TYPE "EG" CURB & GUTTER



TYPE "G" GUTTER

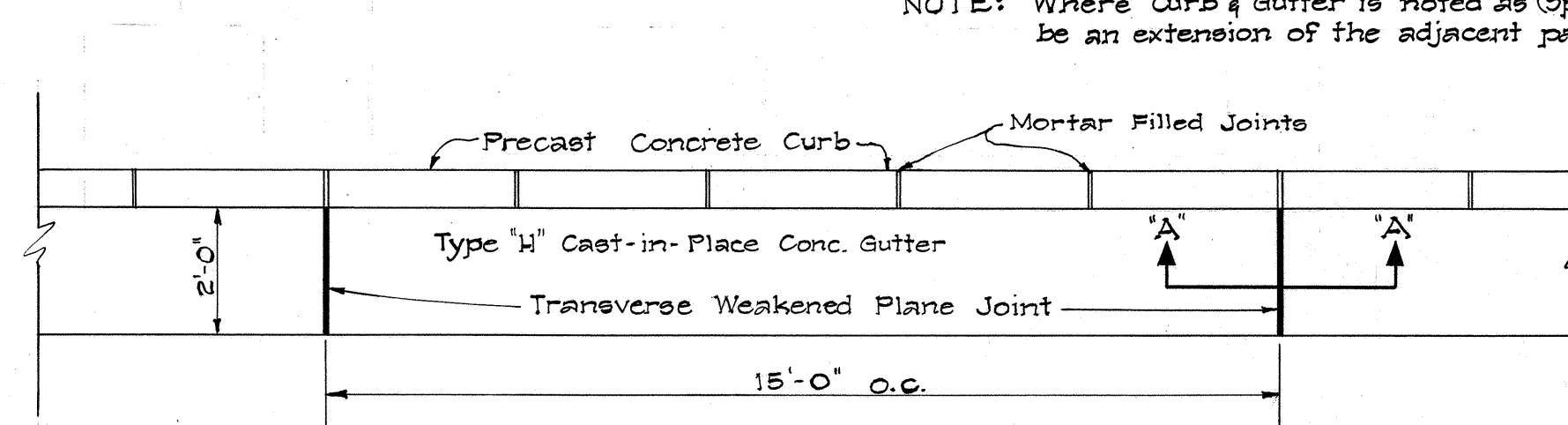


PRECAST CONCRETE DRIVEWAY CURB

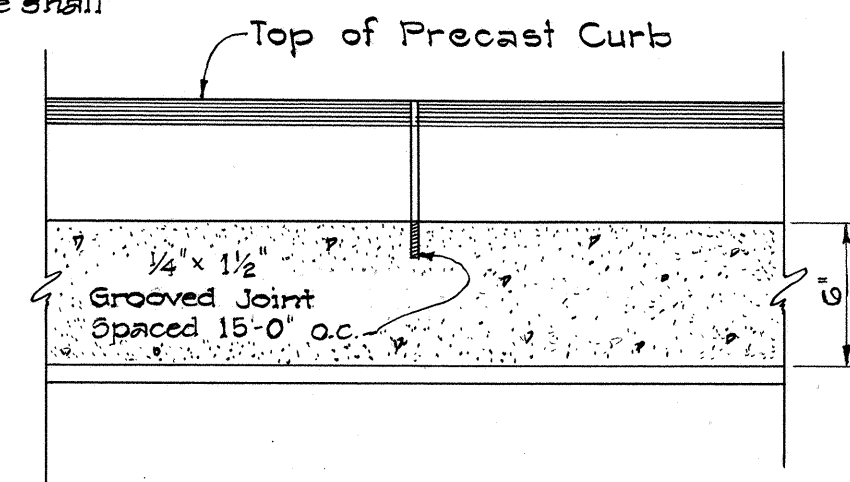
PRECAST CONCRETE CURBS
Scale: 1" = 1'-0"

DETAIL OF CAST-IN-PLACE CURBS, GUTTERS, AND CURBS & GUTTERS
Scale: 1" = 1'-0"

NOTE: Where Curb & Gutter is noted as (Special), gutter slope shall be an extension of the adjacent pavement.

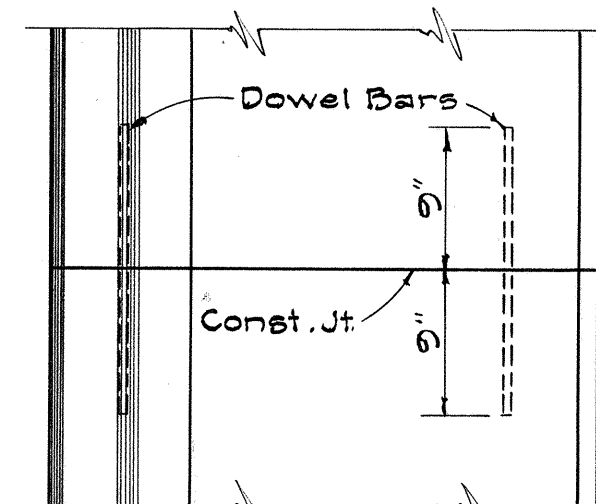


PLAN
Scale: 3/8" = 1'-0"

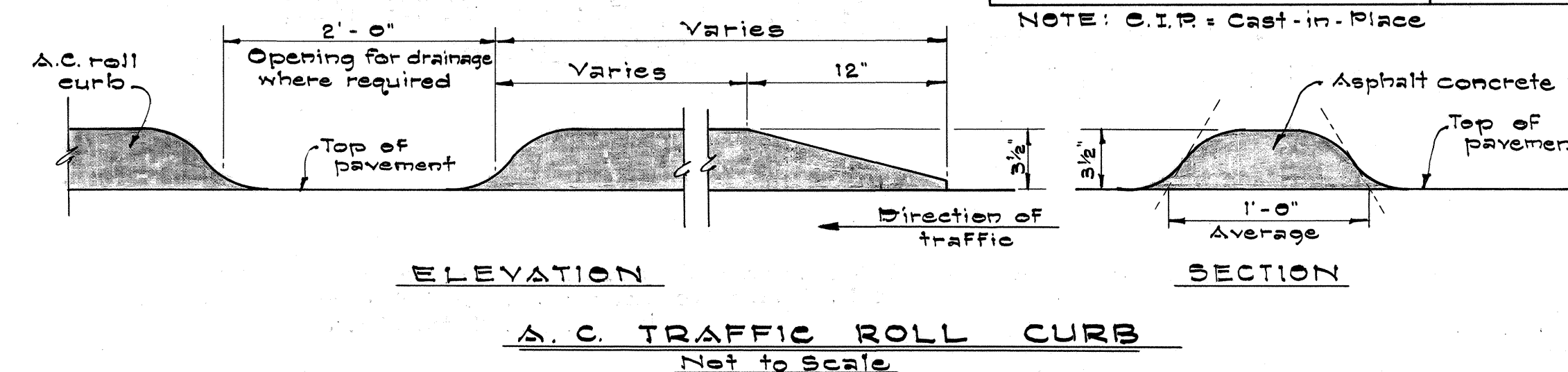


SECTION "A-A"
Scale: 1/2" = 1'-0"

TRANSVERSE WEAKENED PLANE JOINT DETAIL FOR TYPE "H" CAST-IN-PLACE CONC. GUTTERS
Scale: As Shown



TYPICAL CONSTRUCTION JOINT DETAIL FOR CAST-IN-PLACE CONCRETE CURB & GUTTER
Scale: 1" = 1'-0"



ELEVATION

SECTION

A.C. TRAFFIC ROLL CURB
Not to Scale

PAYMENT FOR CURB AND CURB & GUTTER TRANSITIONS		
TYPE OF TRANSITION	MEASURED FOR PAYMENT AS:	
C.I.P. curb or Pre-Cast Curb	C.I.P. Curb & Gutter	C.I.P. Curb & Gutter
C.I.P. Curb & Gutter	Pre-Cast Curb & C.I.P. Gutter	C.I.P. Curb & Gutter
C.I.P. Curb & Gutter Type	C.I.P. Curb & Gutter Type	C.I.P. Curb & Gutter 1/2 of Transition to each type
C.I.P. Curb Type	C.I.P. Curb Type	C.I.P. Curb 1/2 of Transition to each type
Bridge Abutments	C.I.P. Curb & Gutter or Pre-Cast Curb & C.I.P. Gutter	C.I.P. Type "DBG" Curb & Gutter

NOTE: C.I.P. = Cast-in-Place

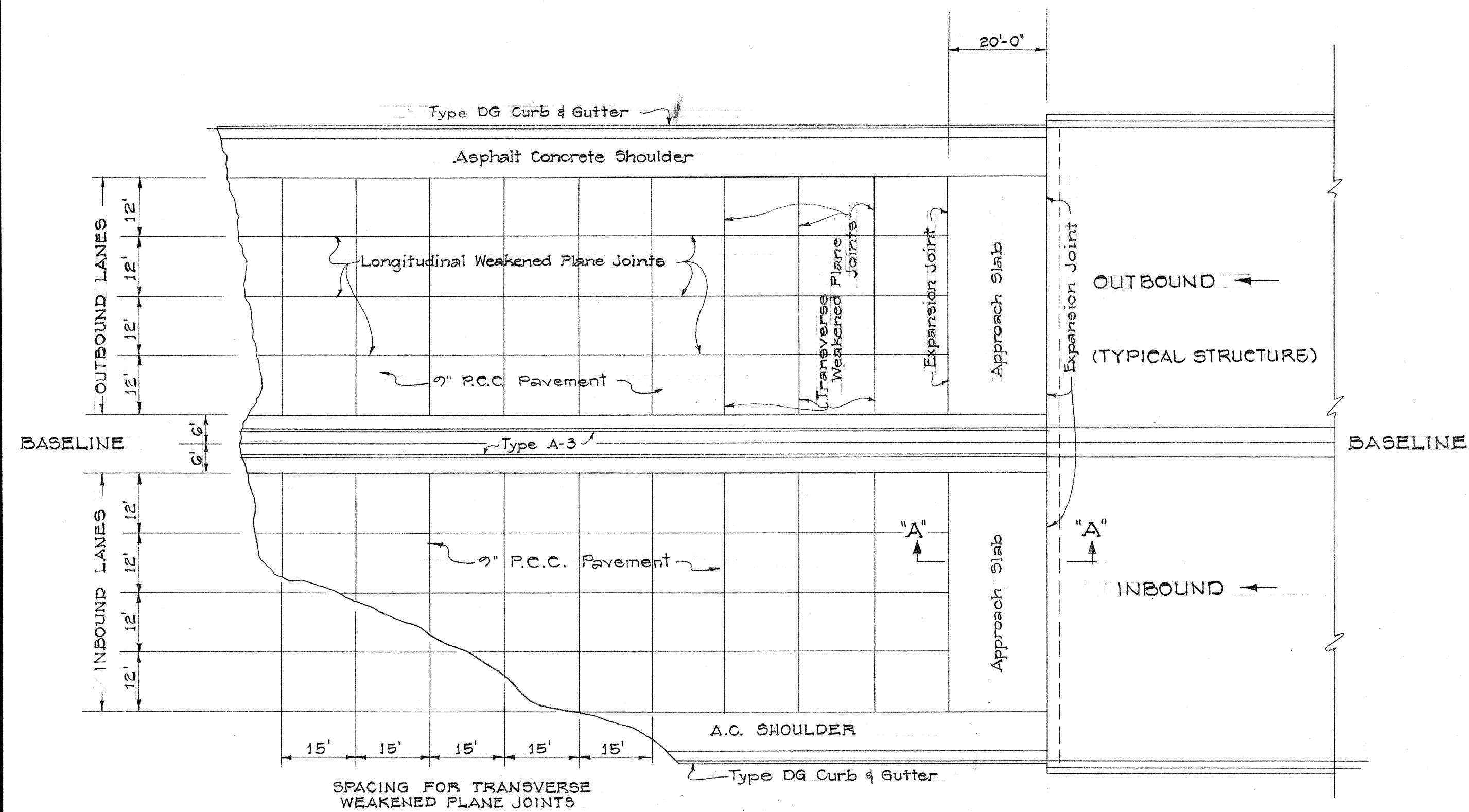
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
DETAILS FOR CONCRETE CURBS AND GUTTERS

F.A.I. Project No. I-HI-1(5): 24, Unit 2

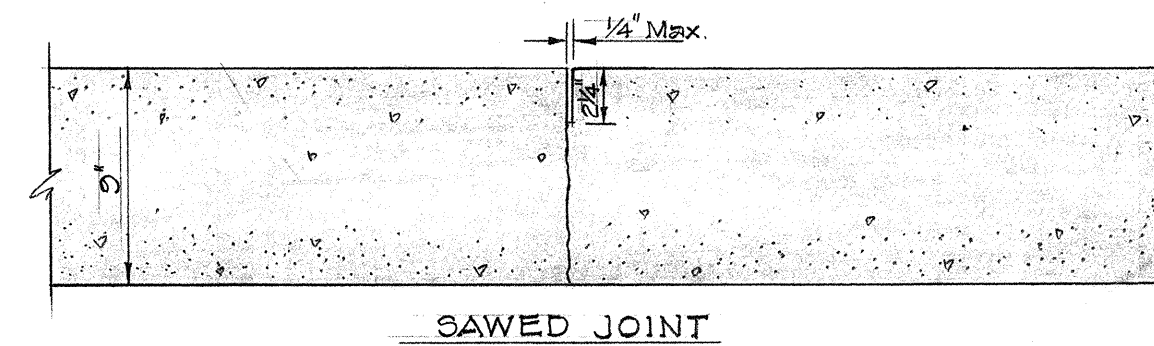
Scale: As Shown Date: May, 1965
SHEET NO 1 OF 3 SHEETS



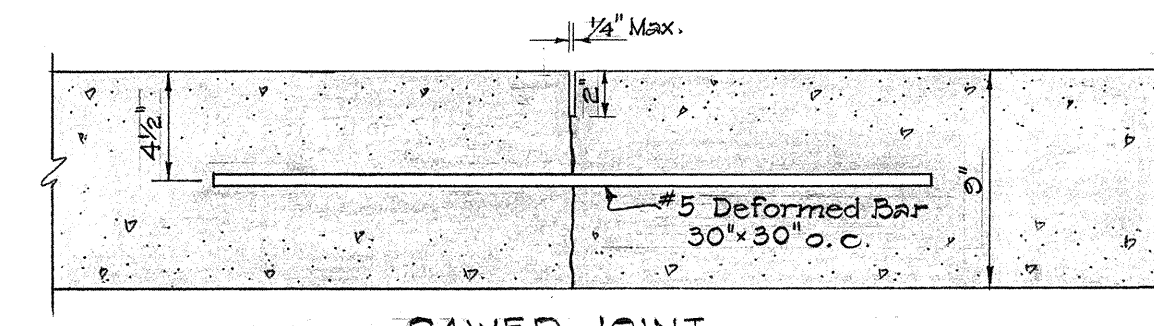
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-10-24 Unit 2	1965	32	276



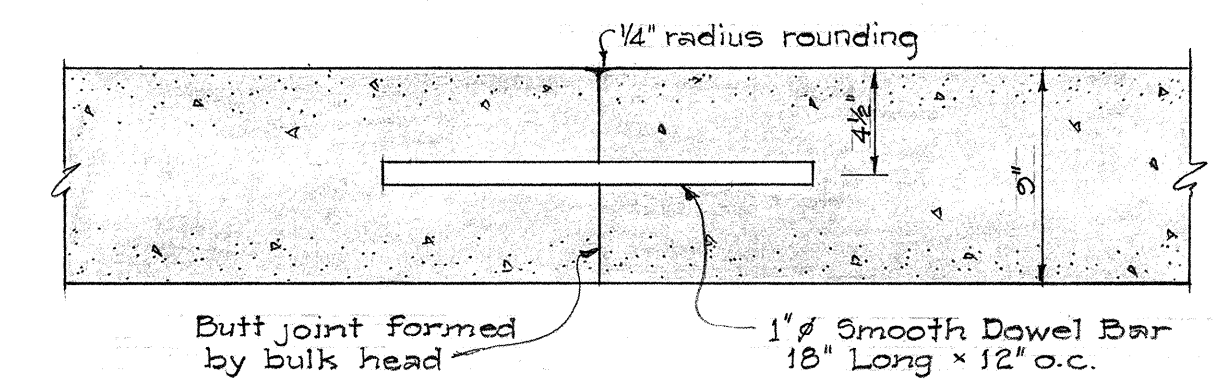
**TYPICAL JOINT LOCATION
AND LAYOUT PLAN**
Scale: 1" = 20'



**TRANSVERSE WEAKENED PLANE
(CONTRACTION) JOINT**
Scale: 1 1/2" = 1'-0"

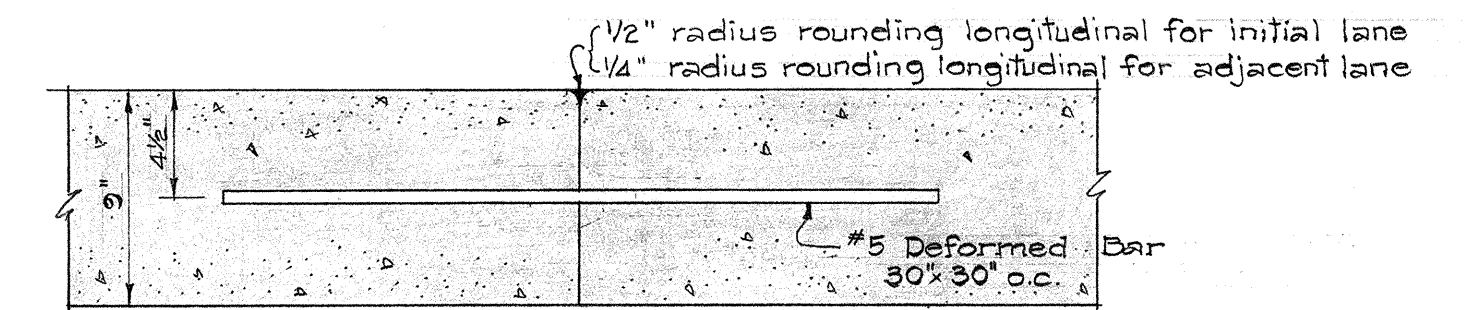


**LONGITUDINAL WEAKENED PLANE
(CONTRACTION) JOINT**
Scale: 1 1/2" = 1'-0"



Note: Use only at location of planned Contraction Joint
DETAIL "A"

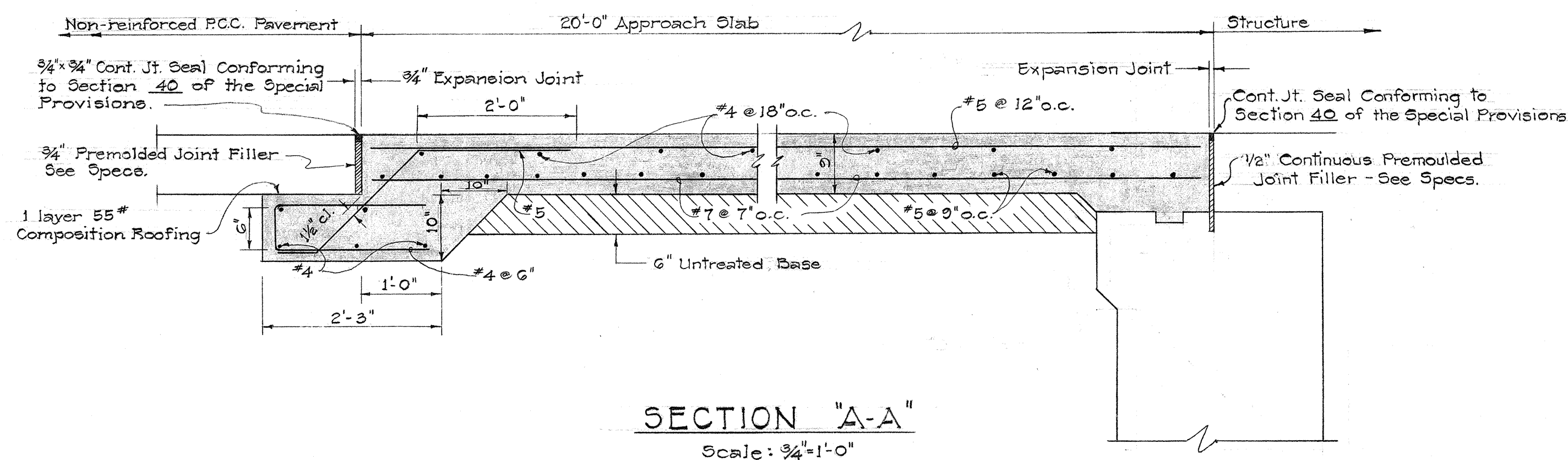
TRANSVERSE CONSTRUCTION (CONTACT) JOINTS
Scale: 1 1/2" = 1'-0"



LONGITUDINAL CONSTRUCTION (CONTACT) JOINTS
Scale: 1 1/2" = 1'-0"

GENERAL NOTES - P.C.C. JOINTS

1. Joints shown on this sheet are for 9" P.C.C. Pavement for freeway lanes.
2. The longitudinal weakened plane joint detail shall be applicable at the intermediate traffic lane edge when 2 or more lanes are paved in one continuous pour. The straight tie bars shall be placed mechanically to the depth shown on the detail. All other longitudinal joints shall be constructed in accordance with the contact joint detail shown on these plans.
3. Joints for 8" P.C.C. Pavements for Speed Change Lanes and Bus Stops are similar to joints shown on this sheet except that dowels shall be placed 4" from the top of the pavement.
4. 6" Untreated Base shall also be placed beneath the approach slab all in accordance with the requirements of Section 26 of the Special Provisions.



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

**EXPANSION JOINTS
AT APPROACH SLAB**

NOTE: Refer to Structure No. 3, Miscellaneous Details, Plan Sheet No. 222 for Approach Slab Layout Plan, and details for Reinforcing and Joint Connection to Structure.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**JOINTS DETAILS FOR PORTLAND
CEMENT CONCRETE PAVEMENT**

F.A.I. Proj. No. I-HI-1(5):24, Unit 2

Scale: As Shown Date: May, 1965.

SHEET No. 3 OF 3 SHEETS

32 276

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

CONCRETE CURBS AND GUTTERS

LOCATION			TYPE AND LENGTH (Lin. Ft.)									
ROAD	STA. TO STA.	SIDE	Type A-1 Curb	Type A-2 Curb & Gutter	Type A-3 Curb & Gutter	Type DG Curb & Gutter	Type DG Curb & Gutter	Type E Curb	Type EG Curb & Gutter	Type G Gutter	Precast Conc. Curb	Type H (C.I.P.) Gutter
Inbound	41+21 to 42+05	Lt.					93					
Inbound	42+05 to 46+25	Lt.				409						
Inbound	46+25 to 46+29	Lt.					4					
Inbound	55+37 to 55+43	Lt.					6					
Inbound	55+43 to 58+30	Lt.				304						
Inbound	32+82.70 to 34+02.70	Rt.	121									
Inbound	34+02.70 to 39+43.42	Rt.		541								
Inbound	39+43.42 to 39+95	Rt.			52							
Inbound	41+11 to 45+87	Rt.			476							
Inbound	54+55 to 56+25	Rt.			170							
Inbound	58+75 to 59+55	Rt.			80							
Outbound	29+08 to 39+43.98	Lt.		1,035								
Outbound	39+43.98 to 39+93	Lt.			44							
Outbound	41+03 to 45+72	Lt.			463							
Outbound	54+55 to 56+25	Lt.			170							
Outbound	58+95 to 59+55	Lt.			60							
Outbound	32+89 to 38+37.68	Rt.				549						
Outbound	41+00 to 41+33	Rt.					33					
Outbound	41+33 to 44+69.74	Rt.				339						
Outbound	54+55 to 54+65	Rt.					10					
Outbound	54+65 to 59+00	Rt.				444						
Ramp (T)	(I.B.) 25+09 to (T) 7+40	Lt., Rt.				554						
Ramp (T)	5+18.95 to 7+74.92	Lt.		263								
Ramp (T-1)	5+06.87 to 6+29.65	Rt.					123					
Ramp (T-1)	6+29.65 to 9+34.95	Rt.						305				
Ramp (T-1)	8+55 to 9+75	Lt.		125								
Ramp (WL-I)	6+06 to 7+57	Lt.		163								
Ramp (WL-I)	7+57 to 9+78	Lt.				223						
Ramp (WL-I)	9+78 to 10+06	Lt.					27					
Ramp (WL-I)	(WL) 6+90± to (WL-I) 6+09	Rt.					30					
Ramp (WL-I)	6+09 to 8+18	Rt.			210							
Ramp (WL-I)	8+18 to 9+80	Rt.		168								
Ramp (WL-O)	4+57± to 8+39	Lt.		395								
Ramp (WL-O)	4+52± to 4+98.02	Rt.					45					
Ramp (WL-O)	4+98.02 to 8+20±	Rt.				324						
Ramp (WL-O)	8+20± to 9+84±	Rt.					163					
Ramp (HI-O)	19+91.70 to 19+71.70	Rt.		5	20							
Inbound	30+42.57 to 39+93.95	Lt.				347						
Old Waialae	2+73 to 7+51	Lt.					54				210	212
Old Waialae	4+90 to 8+34.42	Rt.		20			40				90	90
Old Waialae	0+10.8± (Island)	Lt., Rt.										
South King	10+34± (Island)	Rt.									7	
South King	10+70.59 (Island)	Lt.									167	
South King	11+77.99 (Island)	Lt.									166	
So. King, Ramp (T-1)	(SK) 12+75± to (T-1) 11+90.62	Lt., Rt.									306	329
South King	(SK) 14+35.20 (Island)	Lt.									319	
Ramp (T-1)	12+04.62 to 12+95.62	Rt.								91		
South King	15+96.81 (Island)	Lt.									239	
South King	16+33.64 (Island)	Lt.									112	
So. King, Kapiolani	(SK) 21+81± to (KB) 22+92	Lt.									547	547
South King	22+48± (Island)	Rt.									80	
Kapiolani	20+50.64 (Island)	Lt.									420	
Kapiolani	20+66.35 (Island)	Rt.									173	
KB, HA, KA	(KB) 25+46± to (KA) 18+30	Rt., Lt., Rt.									991	1,032
Harding	13+27.30 (Island)	Lt.									67	
Harding	13+97.02 (Island)	Lt.									445	
Harding, Kapahulu	(HA) 14+90± to (KA) 22+31.31	Rt., Rt.									369	372

CONCRETE CURBS AND GUTTERS

LOCATION			TYPE AND LENGTH (Lin. Ft.)									
ROAD	STA. TO STA.	SIDE	Type A-1 Curb	Type A-2 Curb & Gutter	Type A-3 Curb & Gutter	Type DG Curb & Gutter	Type DG Curb & Gutter	Type E Curb	Type EG Curb & Gutter	Type G Gutter	Precast Conc. Curb	Type H (C.I.P.) Gutter
Harding	16+59.03 (Island)	Rt.										72
Harding	16+93.54 (Island)	Lt.										404
Harding	17+11.81 (Island)	Rt.										485
Harding	17+26.01 (Island)	Lt., Rt.										305
Harding	18+13.47 (Island)	Lt.										130
Harding	19+00 (Island)	Lt.										231
Kapahulu	21+17 to 22+39.64	Lt.									107	43
Kapahulu, Harding	(KA) 22+39.64 to (HA) 22+62.85	Rt., Rt.									607	597
Kapahulu, First Ave.	(KA) 18+23.26 to (FA) 1+85	Lt., Lt.									325	347
Ramp (H-K)	3+12.99 to 2+59.37	Rt.								50		
Ramp (H-K)	2+59.37 (Island)	Rt.									122	24
First Ave., Second Ave.	(FA) 1+65 to 2nd Ave. 9+62	Lt., Rt.									448	496
Kapahulu	20+53.78 (Island)	Rt.									255	
Kapiolani	26+10± (Island)	Rt.									100	

LIST OF 4" PCC PAVEMENTS
(Side Walks, Nose Areas & Traffic Islands)

LOCATION			WIDTH Lin. Ft.	LENGTH Lin. Ft.	AREA Sq. Ft.
ROAD	STA. TO STA.	SIDE			
Inbound	(I.B.) 30+42.57 (Nose)	Lt.			74
Outbound	(O.B.) 32+95± (Nose)	Rt.			50
Ramp (WL-O)	(WL-O) 4+57± (Nose)	Lt.			98
Outbound	(O.B.) 38+62± (Nose)	Rt.			40
Inbound	(I.B.) 39+93.95 (Nose)	Lt.			125
Ramp (HI-O)	(HI-O) 19+91.70 (Nose)	Rt.			74
Outbound	(O.B.) 54+55± to 54+81	Rt.	1	26	26
Old Waialae & Ramp (T)	(WL) 4+60± to 7+53 (S/W & Nose)	Lt.	4.0 to 7.5	142	852
Old Waialae & Ramp (WL-I)	(WL) 7+19.88 to 8+34.42 (S/W & Nose)	Rt.	6.0	92	621
So. King	(SK) 10+70.59 (Island)	Lt.			1,725
So. King	(SK) 11+97.74 (Island)	Lt.			1,127
So. King & Ramp (T-1)	(SK) 12+75± to (TK) 0+54.18	Lt. & Rt.	1.0 to 4.0	221	361
So. King	(SK) 14+35.20 (Island)	Lt.			2,984
So. King	(SK) 15+96.81 (Island)	Lt.			1,316
So. King	(SK) 16+33.64 (Island)	Lt.			342
So. King & Kapiolani	(SK) 21+81± to (KB) 23+06	Lt., Lt.	6.0 to 8.5	550	3,796
Kapiolani	(KB) 20+50.64 (Island)	Lt.			1,929
Harding & Kapiolani	(HA) 10+73.90 (Island)	Lt.			1,248
Kapiolani, Harding & Kapahulu	(KB) 27+02± to (KA) 18+58	Rt., Lt., Rt.	6.0 to 8.5	1020	6,990
Harding	(HA) 13+40± (Island)	Lt.			231
Harding	(HA) 13+97.02 (Island)	Lt.			2,223
Harding & Kapahulu	(HA) 14+75± to (KA) 21+70±	Rt., Rt.	4.0 to 9.5	320	2,568
Kapahulu	(KA) 20+53.78 (Island)	Rt.			1,254
First Ave. Extension & Harding	(FAE Rt) 0+47± to (HA) 22+59±	Rt., Rt.	6.0 to 11.5	572	3,017
Harding, Kapahulu & First Ave. Extension	(HA) 17+11.81 (S/W & Nose)	Rt., Lt., Lt.	6	265	1,750
Harding & Kapahulu	(HA) 16+59.03 (Island)	Rt.			235
Harding	(HA) 17+26.01 (Island)	Lt.			2,032
Harding, Kapahulu & Ramp (HK)	(HA) 16+93.54 (S/W & Nose)	Lt., Lt., Lt.	6.0 to 14.5	70	888
Harding & Ramp (HK)	(HA) 18+13.47 (Island)	Lt., Lt.			665
Kapahulu, Ramp (HK) & First Ave.	(KA) 18+23.26 to (FA) 1+78±	Lt., Rt., Lt.	6.5 to 7.5	280	1,948
Harding	(HA) 19+00 (Island)	Lt.			1,091
Ramp (HK) & First Ave.	(HK) 2+59.37 (Island)	Rt., Lt.			643
First Ave., Harding & Second Ave.	(FA) 1+65± to (SA) 9+62±	Rt., Lt., Rt.	4.0 to 6.5	420	1,477

NOTE:
All Lengths and Areas shown on this sheet are estimates only.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONCRETE CURB, GUTTER,
CURB & GUTTER, AND
4" PCC PAVEMENT LIST**

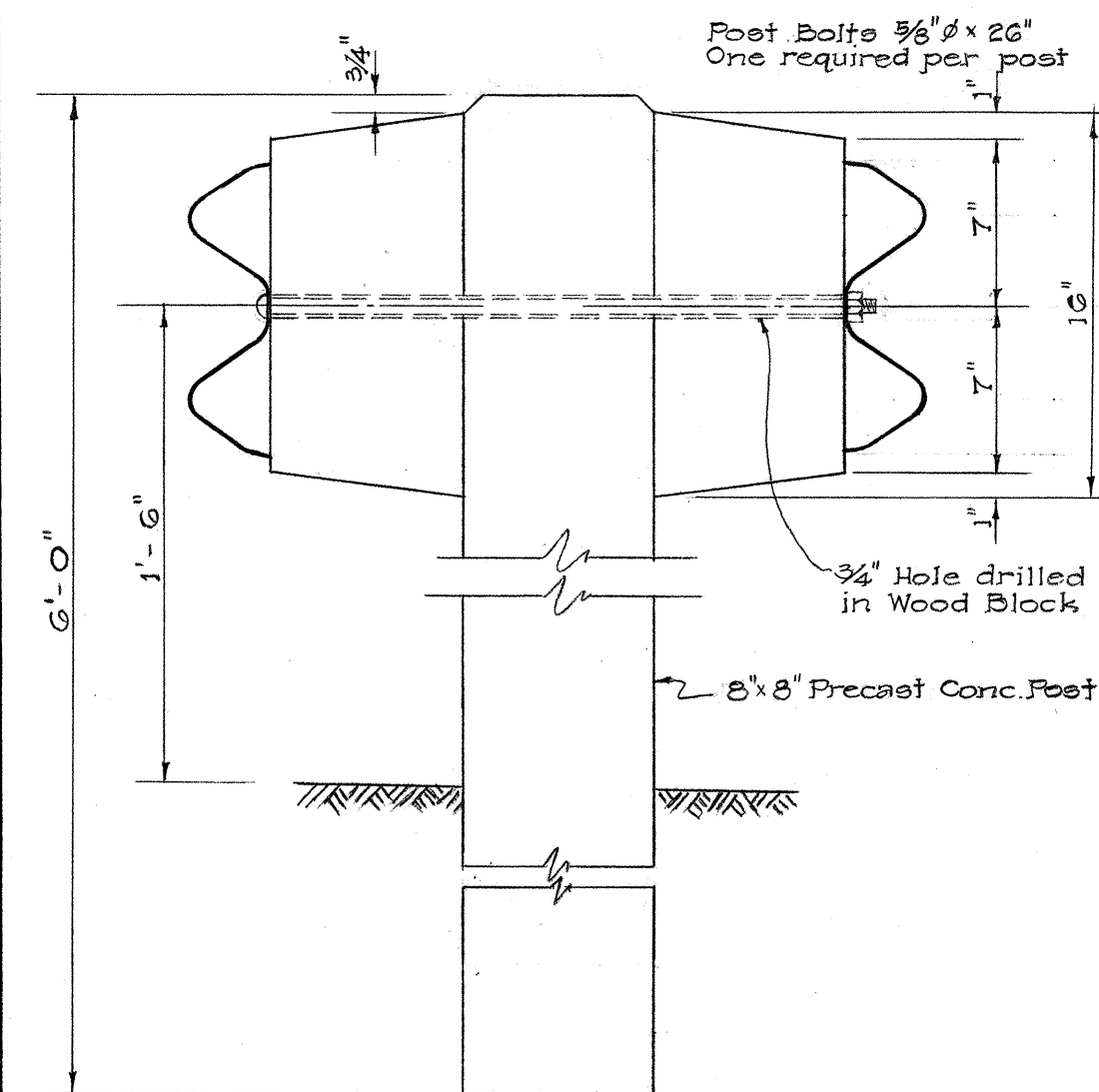
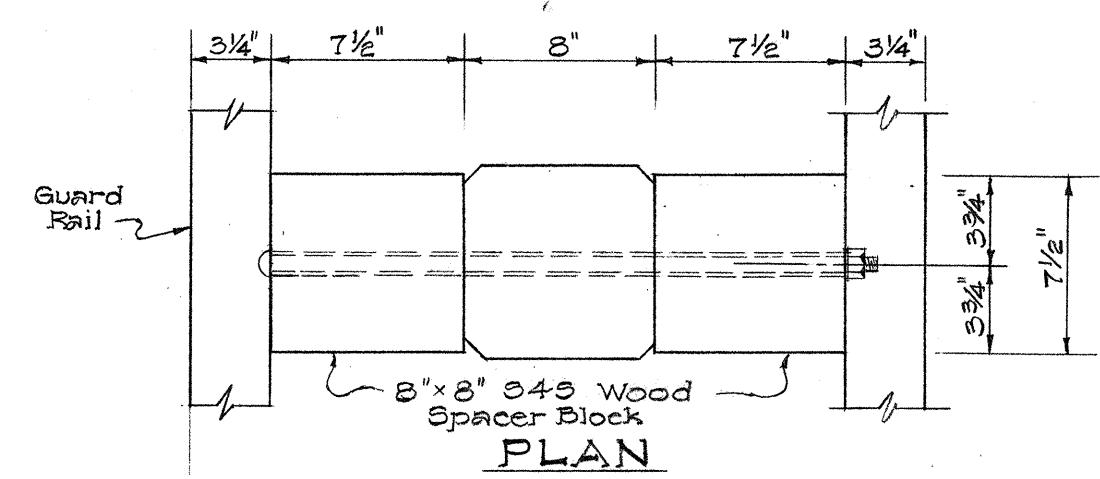
F.A.I. Proj. No. I-HI-1(5) 24, Unit 2

DATE: May 1965

SHEET No. 4 OF 9 SHEETS

33 33 41

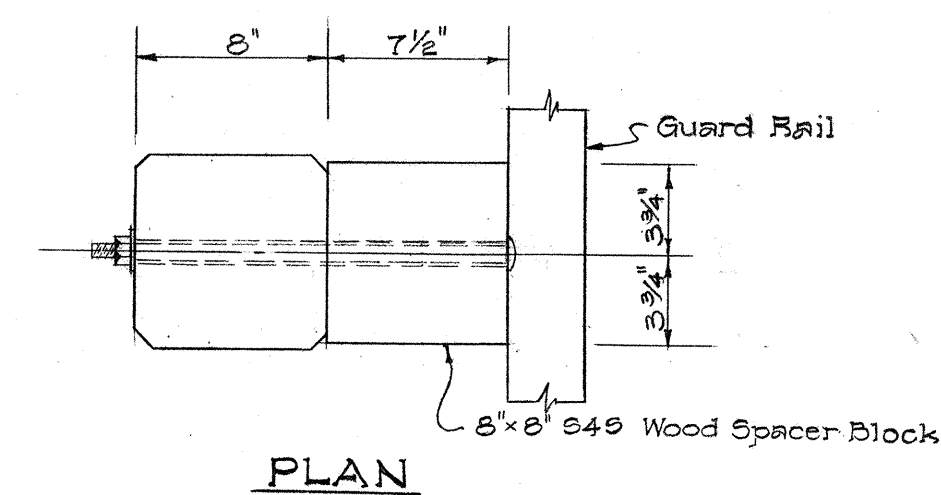
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	511(5)24 Unit 2	1965	35	276



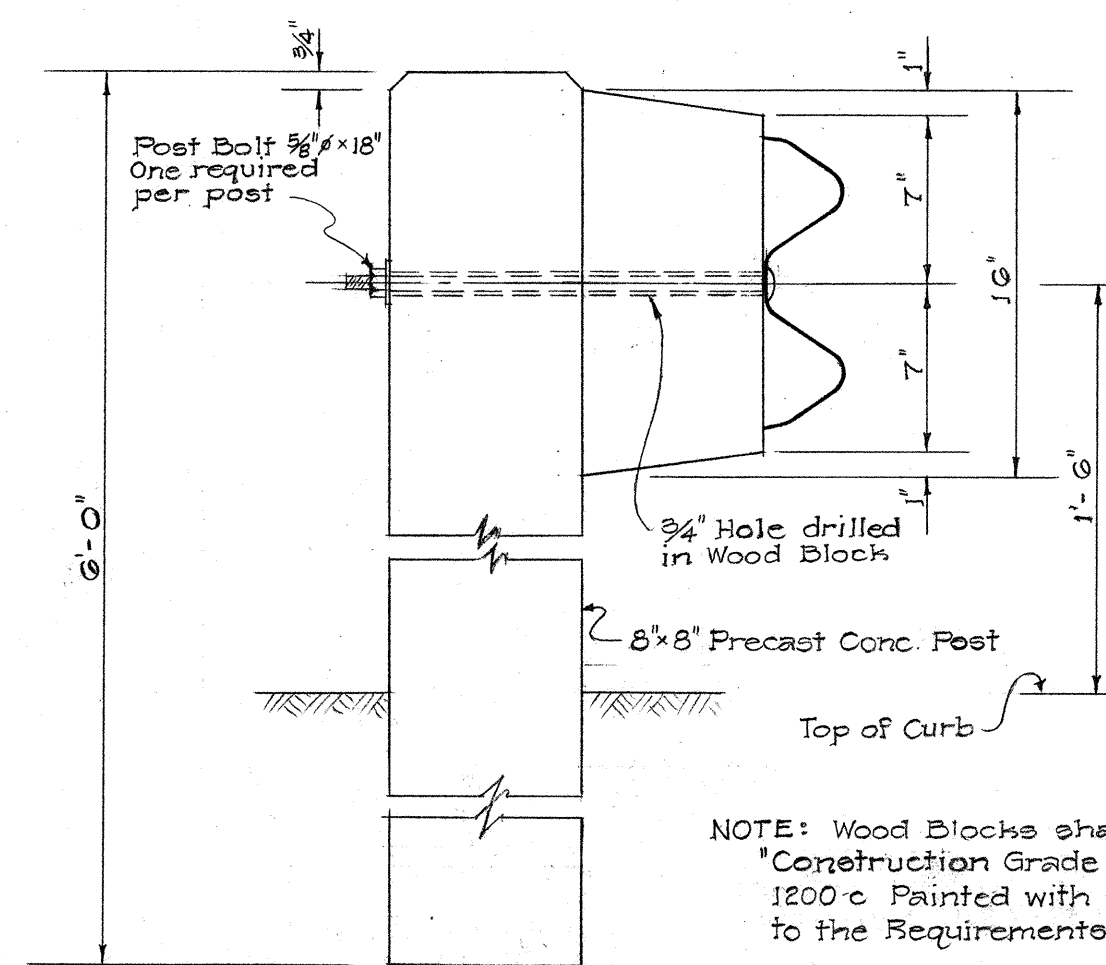
ELEVATION

DOUBLE METAL GUARD RAIL ON PRECAST CONC. POST WITH SPACER BLOCKS

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



PLAN

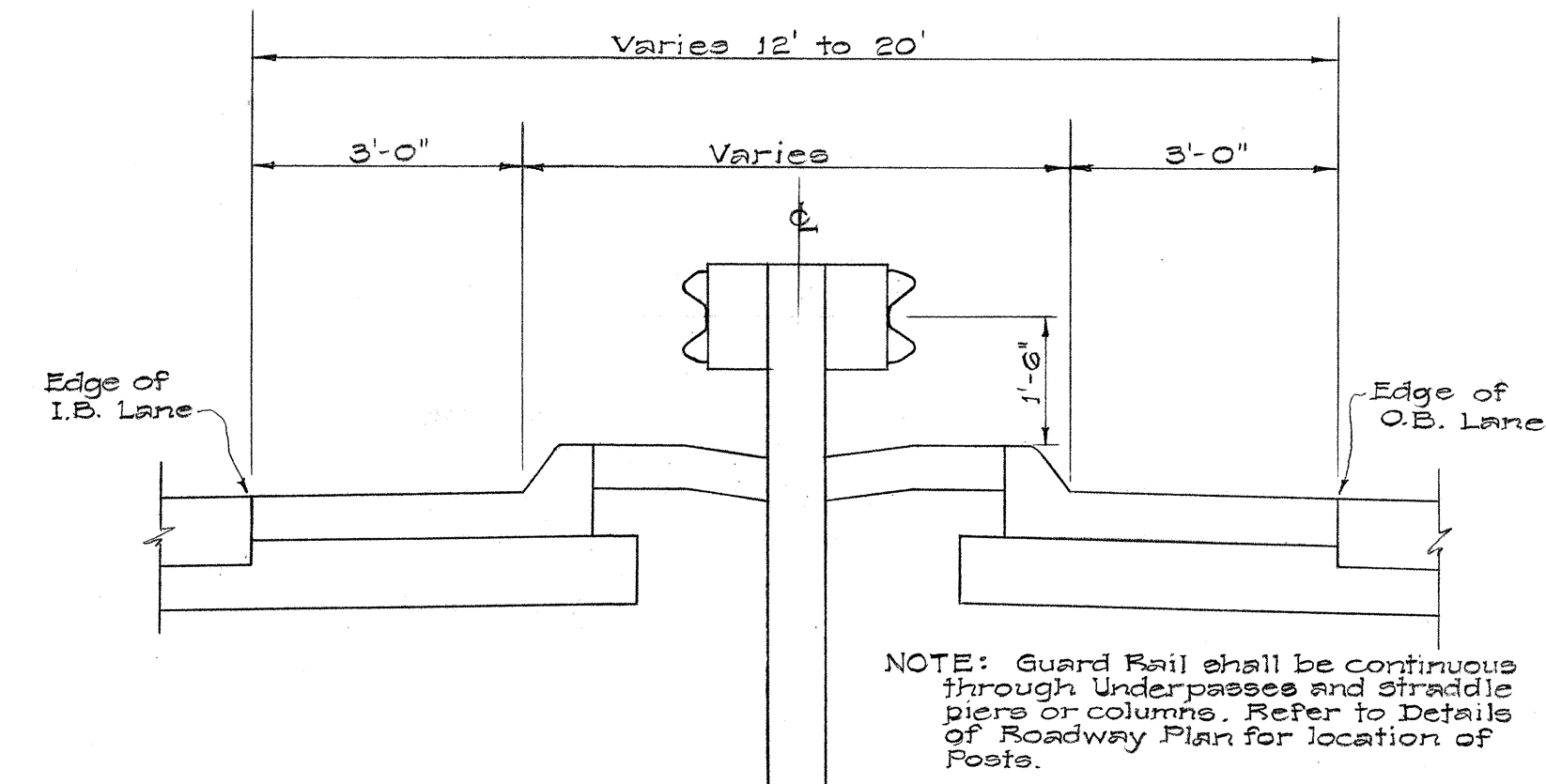


ELEVATION

SINGLE METAL GUARD RAIL ON PRECAST CONC. POST WITH SPACER BLOCK

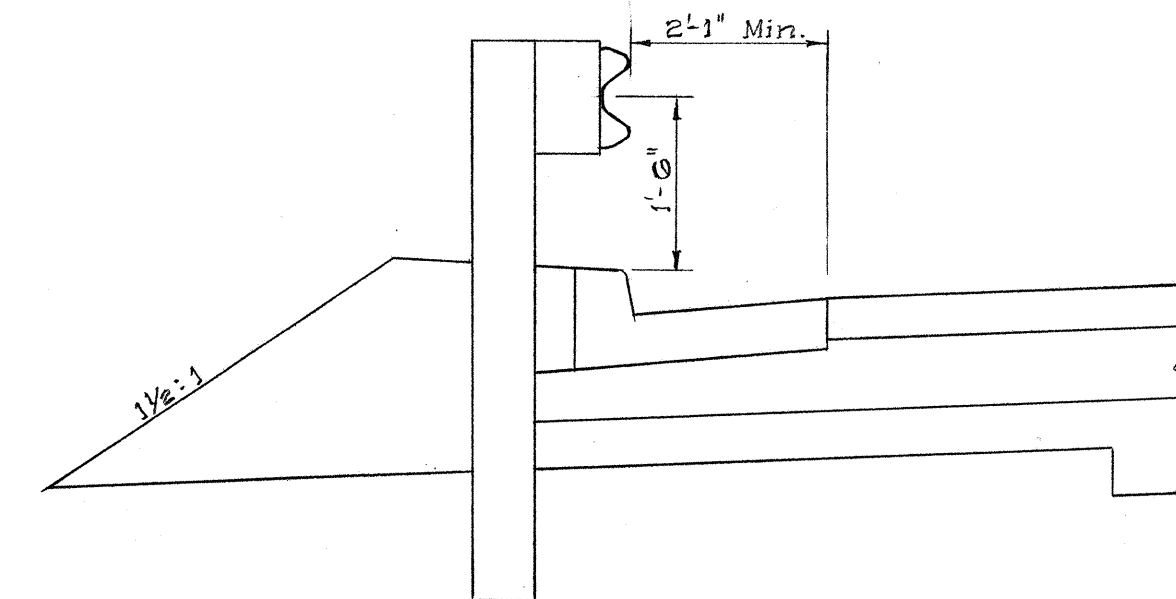
Scale: 1 1/2" = 1'-0"

NOTE: Wood Blocks shall be Douglas Fir "Construction Grade - Posts and Timbers", 1200 c Painted with Creosote Conforming to the Requirements of AASHTO Designation: M-133



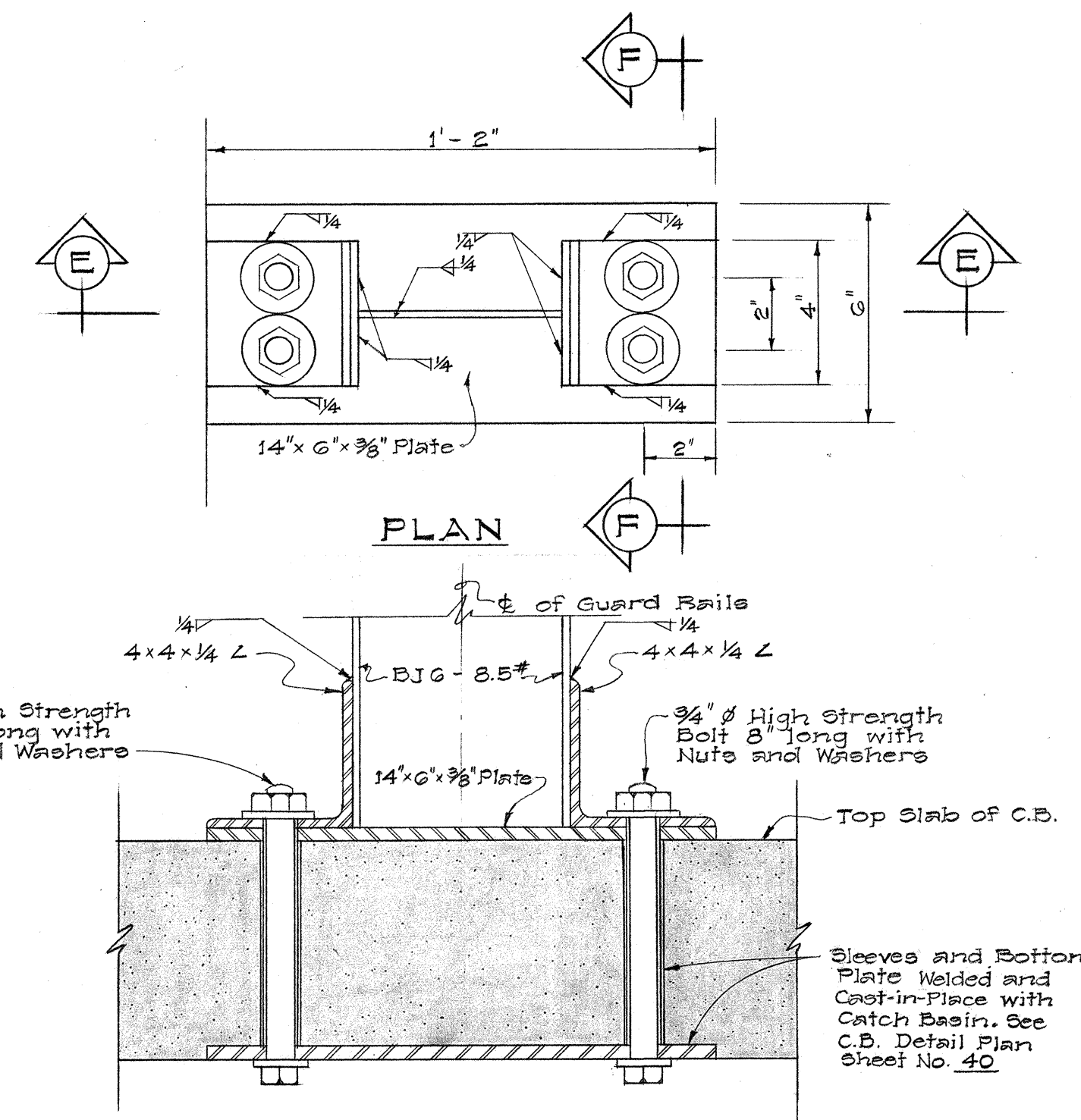
TYPICAL MEDIAL GUARD RAIL DETAIL

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

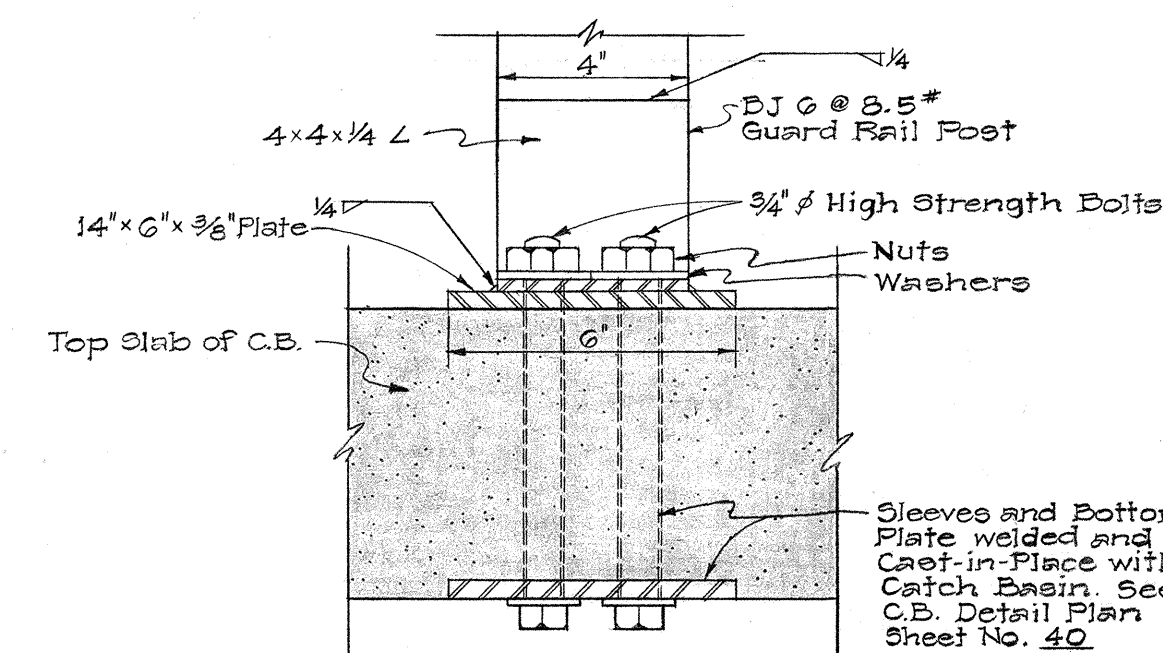


TYPICAL GUARD RAIL AT FREEWAY AND RAMP SHOULDERS

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



SECTION "E-E"



SECTION "F-F"

CONNECTION DETAIL FOR METAL POST ON CATCH BASIN

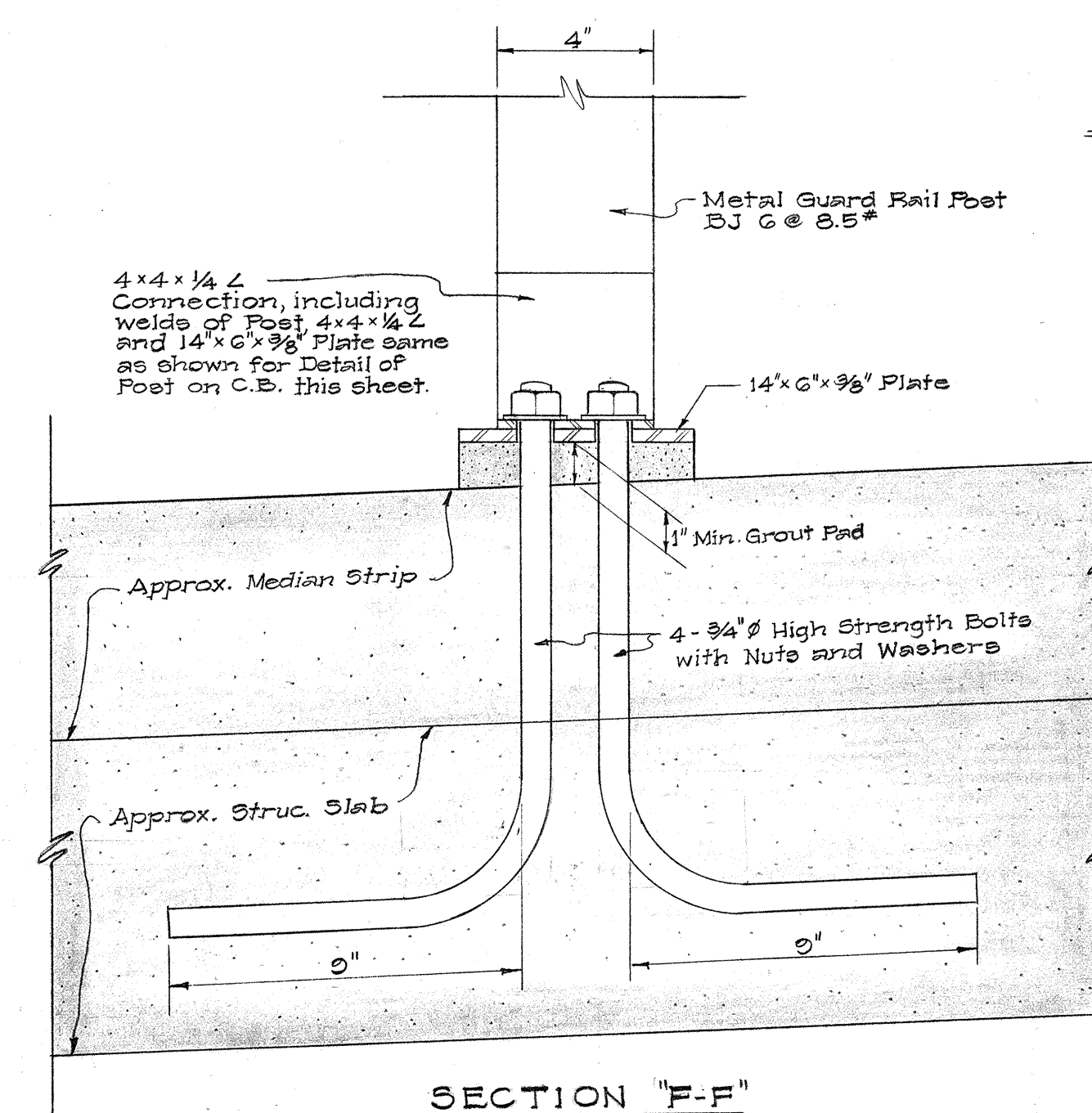
Scale: 3" = 1'-0"

NOTE: 1. **Post on Catch Basin**
All materials necessary for installation of Metal Guard Rail Post on Catch Basin, except sleeves and Bottom Plate, incidental to Item No. 80(E), Single Metal Guard Rail. Sleeves and Bottom Plate incidental to Item No. 48(1), Reinforcing Steel other than in Bridges and Retaining Walls. Metal post shall be used for Guard Rail on Catch Basin No. 14 and No. 15. No alternate type post shall be used. See Plan Sheet 40.

2. **Post on Bridge Median**
All materials necessary for installation of Metal Guard Rail on Bridge Median incidental to Metal Guard Rail on Structures.

When Metal Posts are used on Bridge Median the connection of such post shall conform to the Details shown on this sheet.

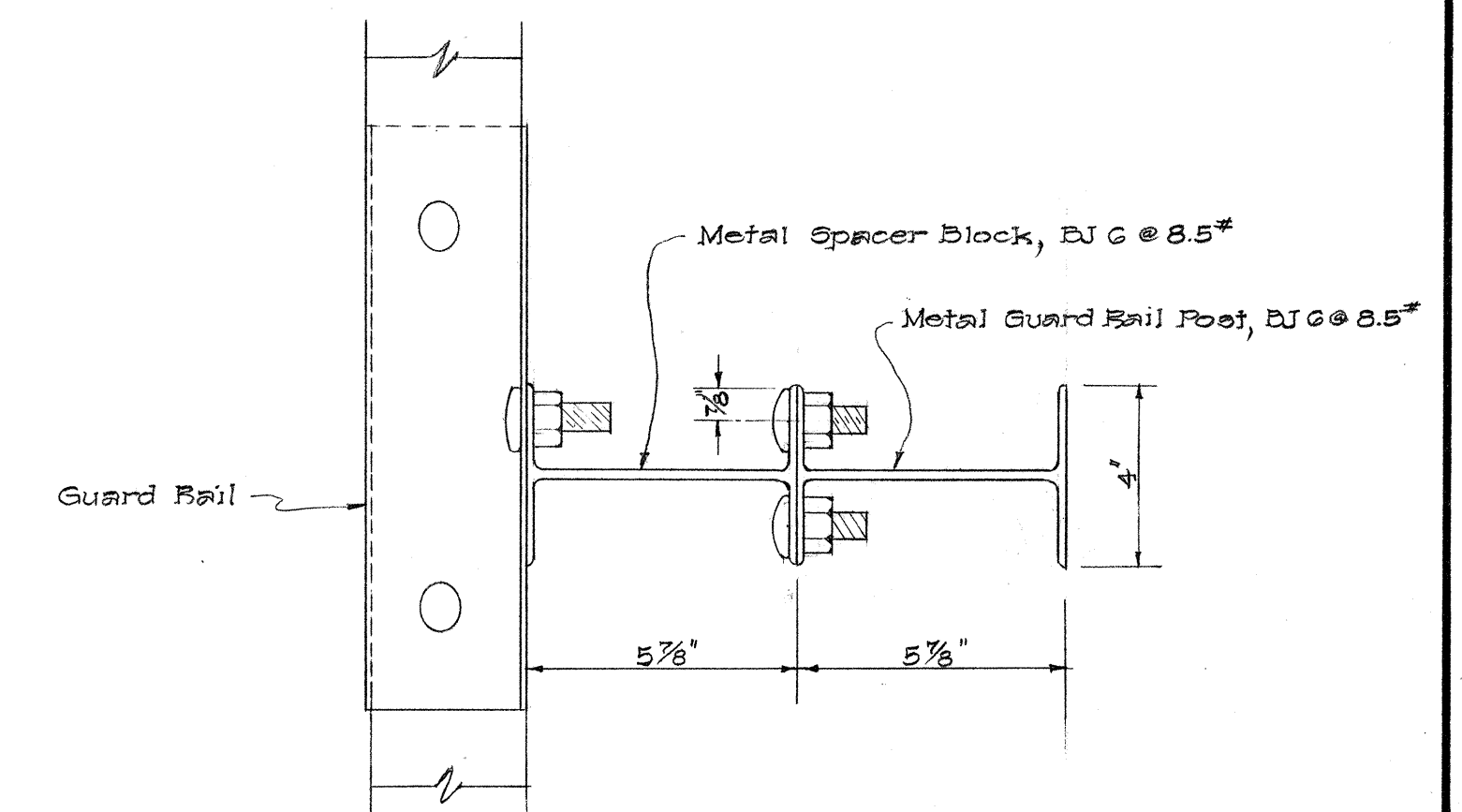
When Concrete Posts are used on Bridge Median the post shall be 8"x8" cast-in-place concrete and conform to the Details shown for Structure No. 2 and Structure No. 3.



SECTION "F-F"

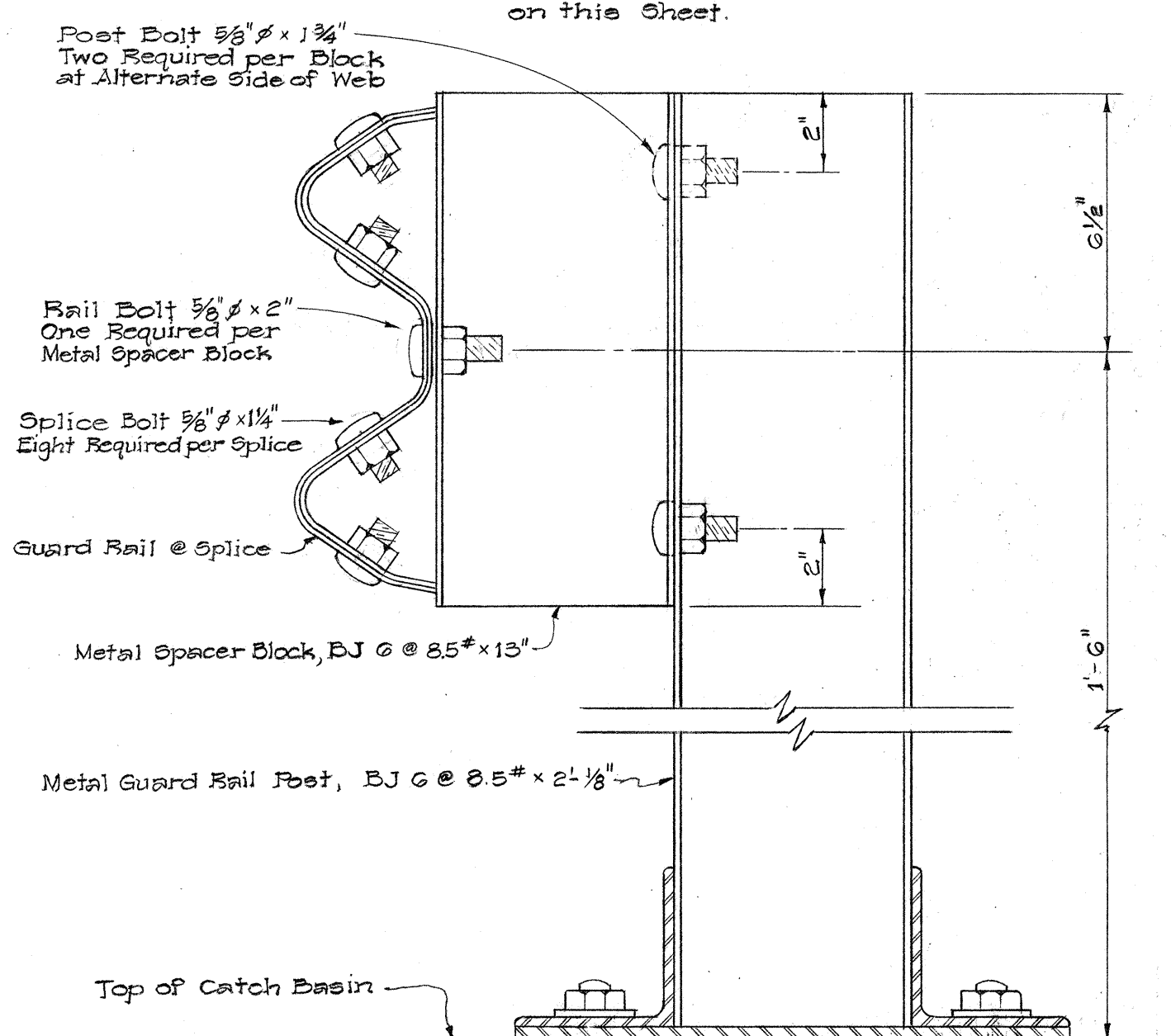
CONNECTION DETAIL FOR METAL POST ON BRIDGE MEDIAN

Scale: 3" = 1'-0"



PLAN

(Less Post Connection) See Connection Detail on this sheet.



ELEVATION

DETAIL OF METAL GUARD RAIL ON METAL POST & METAL SPACER BLOCK

Scale: 3" = 1'-0"

NOTE: Single Guard Rail shown. For Double Guard Rail additional spacer block required on opposite side of posts.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

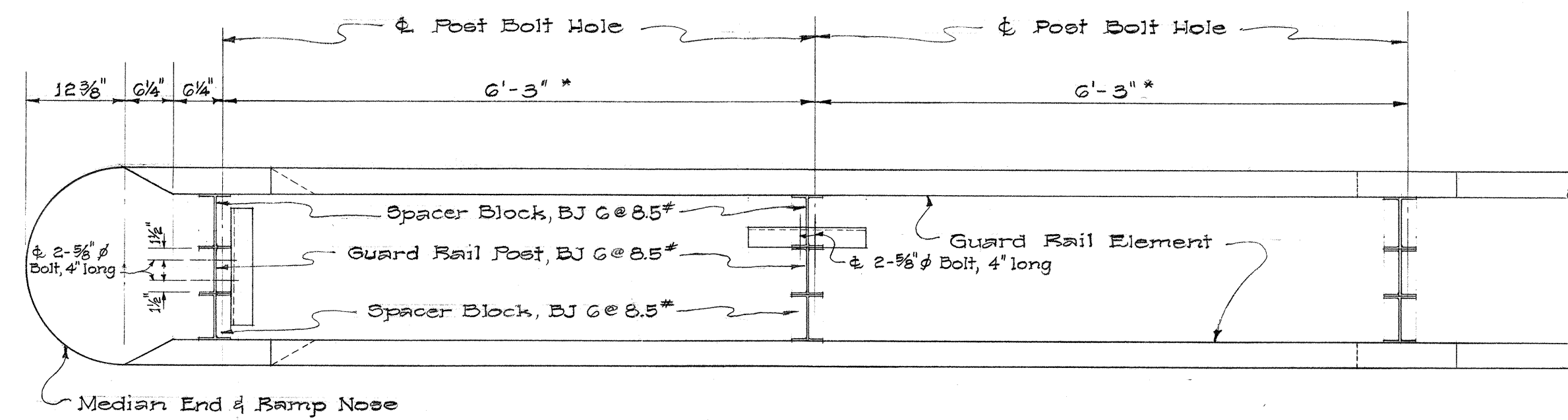
DETAILS FOR METAL GUARD RAIL

FAI Proj. No. I-HI-1(5):24, Unit 2

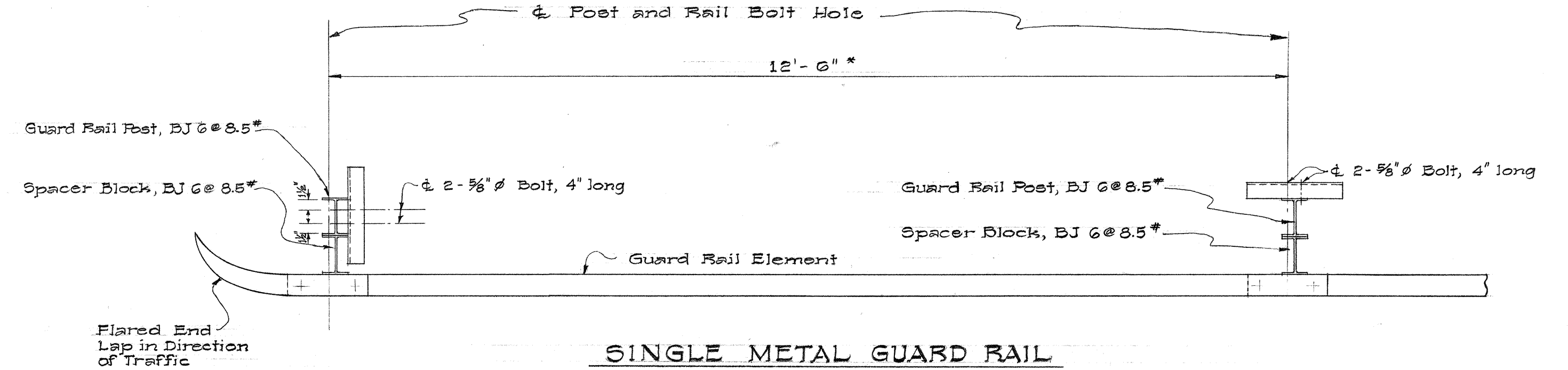
Scale: As Shown Date: May, 1965

SHEET No. 6 OF 9 SHEETS

35

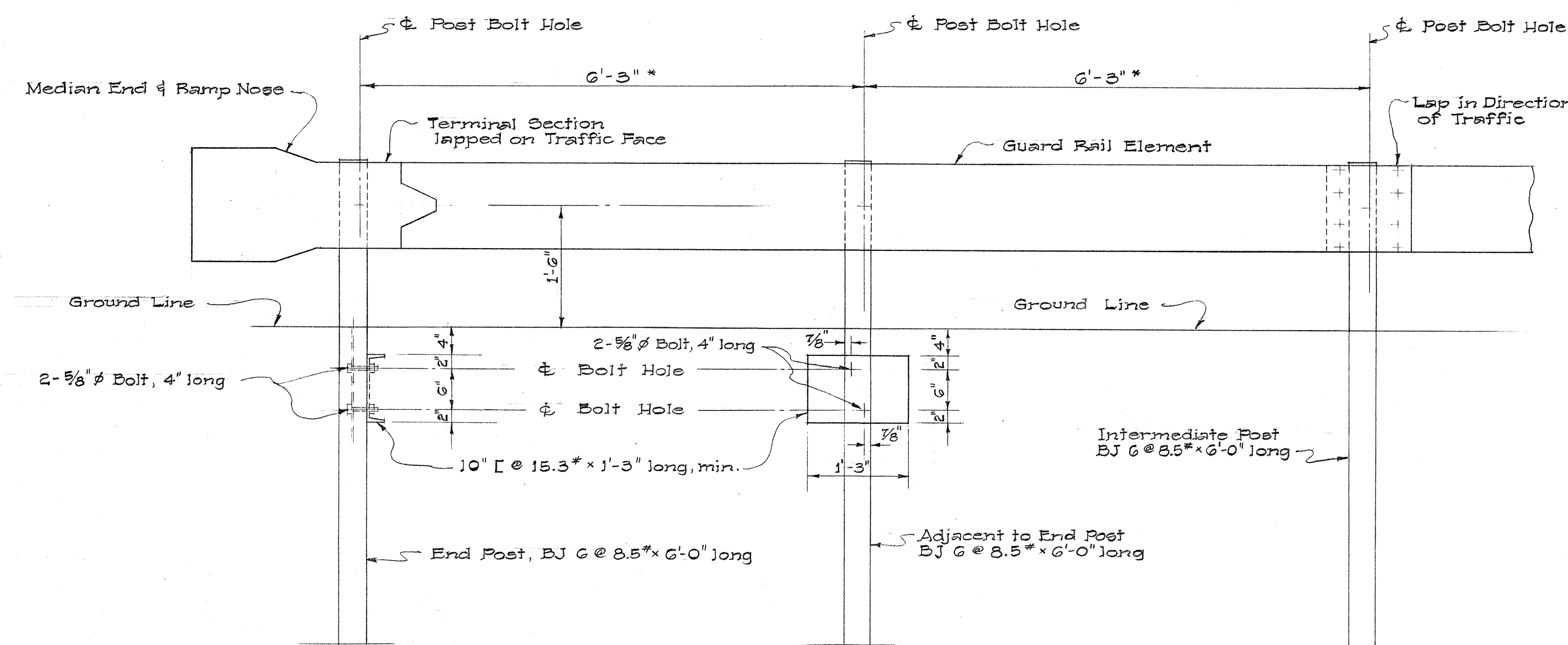


DOUBLE METAL GUARD RAIL

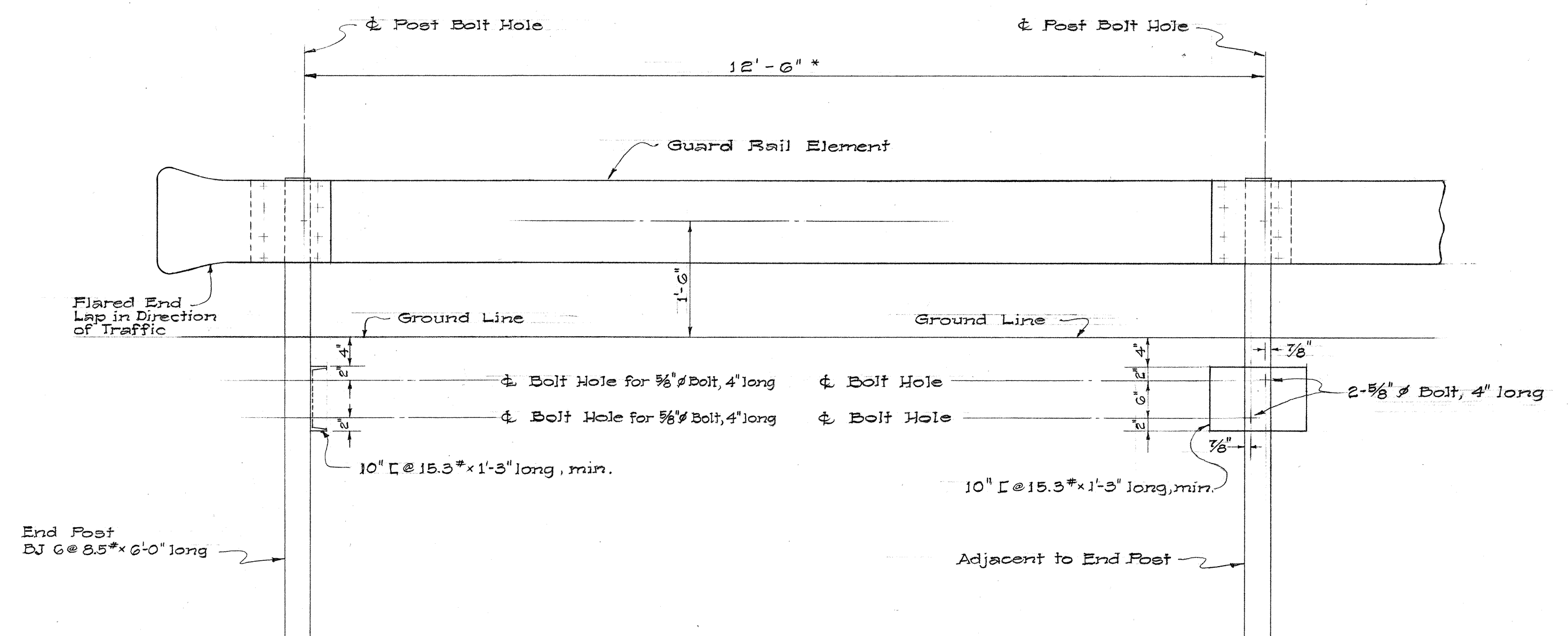


SINGLE METAL GUARD RAIL

PLAN



DOUBLE METAL GUARD RAIL



SINGLE METAL GUARD RAIL

FRONT ELEVATION

DETAIL FOR METAL GUARD RAIL
ON METAL POST AND METAL SPACER BLOCK(S)

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

NOTES

- * Normal spacing shown. If conditions do not permit normal spacings, Contractor shall cut the rail element for proper installation. See Plan Sheet No. 34 for Metal Guard Rail Element Notes.
- See Plan Sheet No. 35 for Connection Details for Metal Post and Typical Installation.

METAL GUARD RAIL PLACEMENT LIST

TYPE	LOCATION	STATION to STATION	ESTIMATED LENGTH Lineal Feet	TYPE	LOCATION	STATION to STATION	ESTIMATED LENGTH Lineal Feet
Double	Medial Strip Freeway	(I.B.) 25+12± to 34+38±	922	Single	Ramp (T) Lt.	(T) 6+75 to 7+25	50
Single	Medial Strip Freeway	(I.B.) 34+38± to 39+36	1125	* Single	Ramp (T) Lt.	(T) 5+16 to 6+75	102
Single	Structure No. 2	(I.B.) 39+06 to 41+12	232	* Single	Ramp (T) Lt.	Old Waiialae Nose	50
Single	Medial Strip Freeway	(O.B.) 41+12 to 44+60	726	Single	Ramp (T-1) Lt.	(T-1) 8+75 (Nose)	56
Double	Medial Strip Freeway	(O.B.) 44+60 to 45+80	120	Single	Ramp (WL-1) Lt.	(WL-1) 6+35 to 9+95	375
Double	Structure No. 3	(O.B.) 45+80 to 54+50	870	Single	Ramp (WL-1) Rt.	(WL-1) 5+92 to 6+82	88
Double	Medial Strip Freeway	(O.B.) 54+50 to 56+25	176	Single	Ramp (WL-1) Rt.	(WL-1) 9+73 (Nose)	50
** Double	Medial Strip Freeway	(O.B.) 56+88 to 59+51	63	* Single	Ramp (WL-0) Lt.	(WL) 5+24 to (WL-0) 7+69	288
Single	I.B. Shoulder	(I.B.) 41+26 to 46+25	505	* Single	Old Waiialae Lt.	(WL) 4+65 to 4+90	25
Single	O.B. Shoulder	(O.B.) 41+31 to 44+50	321	* Single	Old Waiialae Lt.	(WL) 6+58 to 6+83	25
Single	O.B. Shoulder	(O.B.) 54+85 to 55+78	94	Single	Old Waiialae Lt.	(WL) 6+83 to 7+21	38
* Single	O.B. Shoulder Rt.	(O.B.) 57+88 to 58+77	90				
* Single	Ramp (T) Rt.	(I.B.) 25+10 to (T) 7+32	561				

* Reconstructed
** Reconstructed - No Spacer Blocks Required

Note: All lengths shown on this sheet are estimates only.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

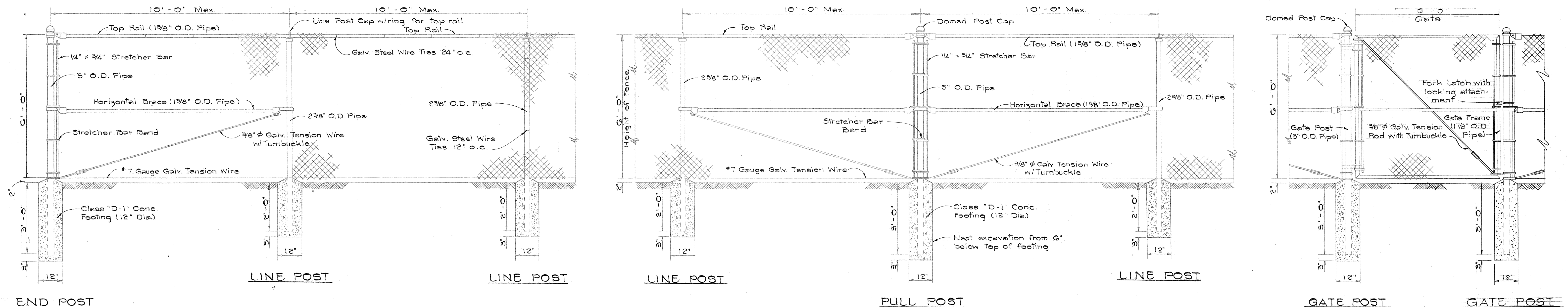
DETAILS FOR
METAL GUARD RAIL

F.A.I. Proj. No. I-HW-1(5)-24, Unit 2

Scale: As Shown Date: May 1965

SHEET No. 7 OF 9 SHEETS

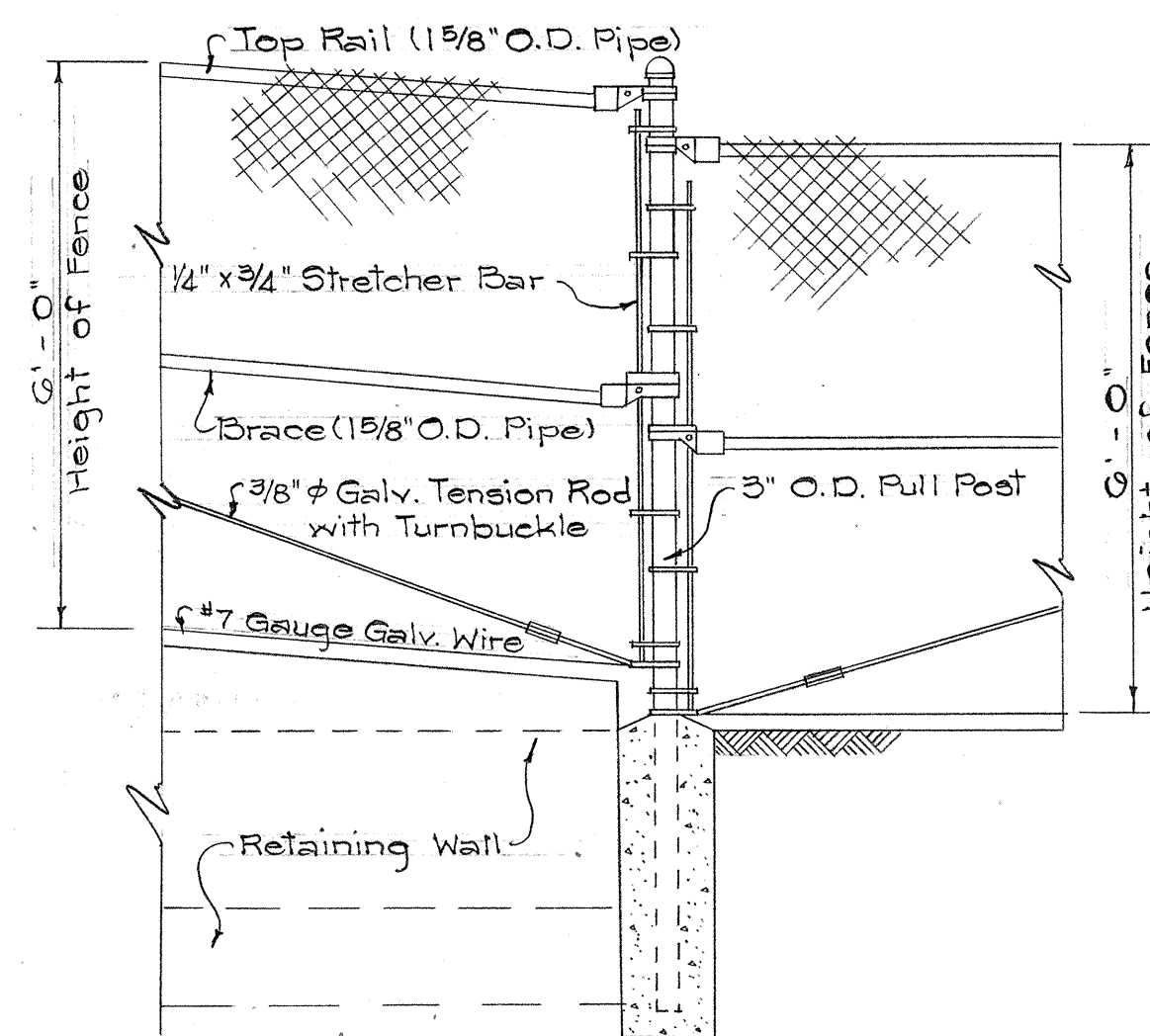
36



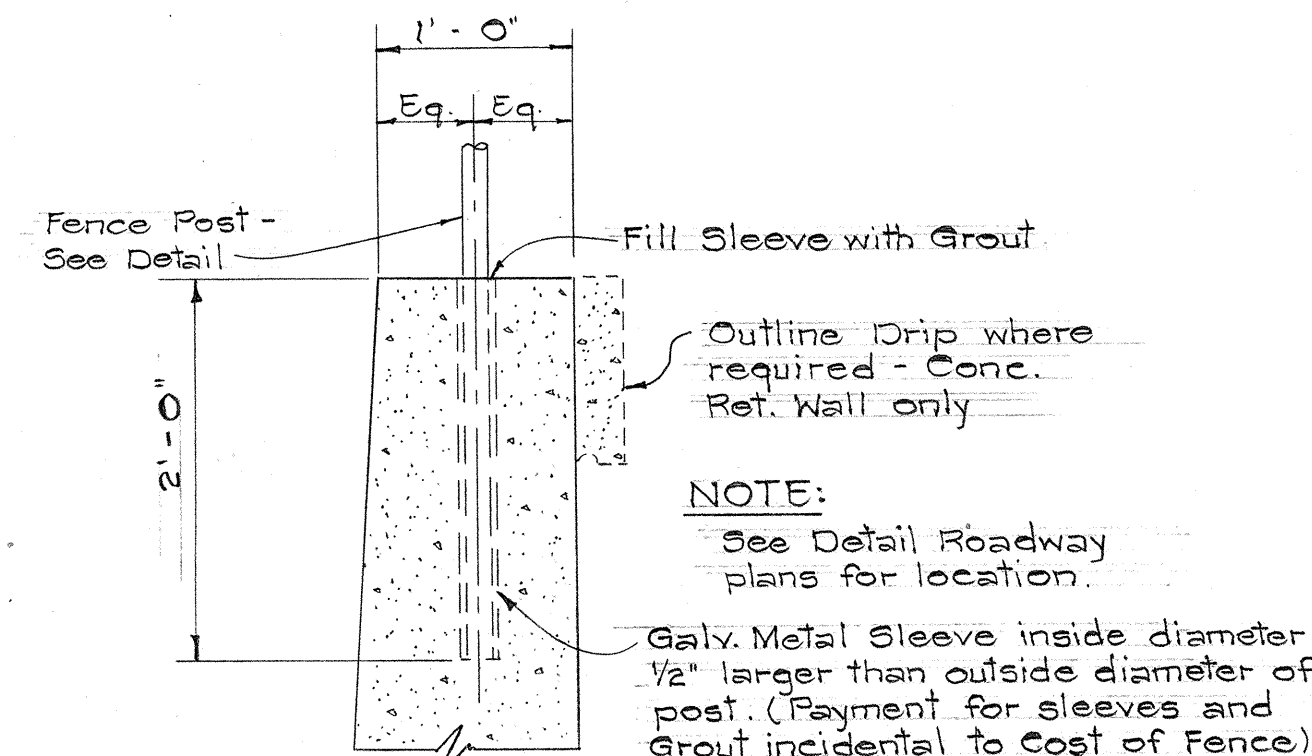
CHAIN LINK FENCE DETAIL

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

NOTE: Concrete footings for fence and gate posts shall be formed to 6" below ground line. The top of the concrete footings at the post shall extend a minimum of 2" above ground line and the surface troweled so that the outer periphery of the top of the footing is flush with the ground.



TYPICAL FENCE CONNECTION
DETAIL AT RETAINING WALL
Scale: 1/2" = 1'-0"



TYPICAL SECTION OF FENCE POST
ON RETAINING WALLS
Scale: 1" = 1'-0"

ACCESS CONTROL 6 FT. CHAIN LINK FENCE WITH CONCRETE FOOTINGS

LOCATION			LENGTH Lin. Ft.
ROAD	STA. TO STA.	SIDE	
Old Waialae	(WL) 4+65 to 4+73	Lt.	28
Old Waialae	(WL) 6+58 to 7+22	Lt.	64
Ramp (T-1)	12+57 to 13+67	Lt.	110
South King	(SK) 17+84 to 23+12	Lt.	322
Kapiolani	(KB) 21+68 to 22+74	Lt.	100
First Ave. Ext.	(FAE) 1+14 to 1+34	Rt.	59
Harding	(HA) 20+34 to 21+44	Rt.	110
Ramp (WL-O)	5+62 to 7+07	Rt.	250-303
Ramp (WL-I)	6+31 to 7+38	Lt.	330-310
Ramp (H1-I)	18+38 to 22+76	Lt.	474
Ramp (H1-I)	24+04 to 27+04	Lt.	303
Outbound	O.B. 55+27 to O.B. 58+78	Rt.	388

3 FT. CHAIN LINK FENCE WITH CONCRETE FOOTINGS

LOCATION			LENGTH Lin. Ft.
ROAD	LOT TAX KEY	SIDE	
First Avenue	3-2-01:117	Lt.	18

ACCESS CONTROL 6 FT. CHAIN LINK FENCE ON RETAINING WALLS

LOCATION	LENGTH Lin. Ft.
Retaining Wall #2-1 I (Structure No. 2)	45 41
Retaining Wall #2-2 II (Structure No. 2)	62 78
Retaining Wall #2-3 III (Structure No. 2)	38 50

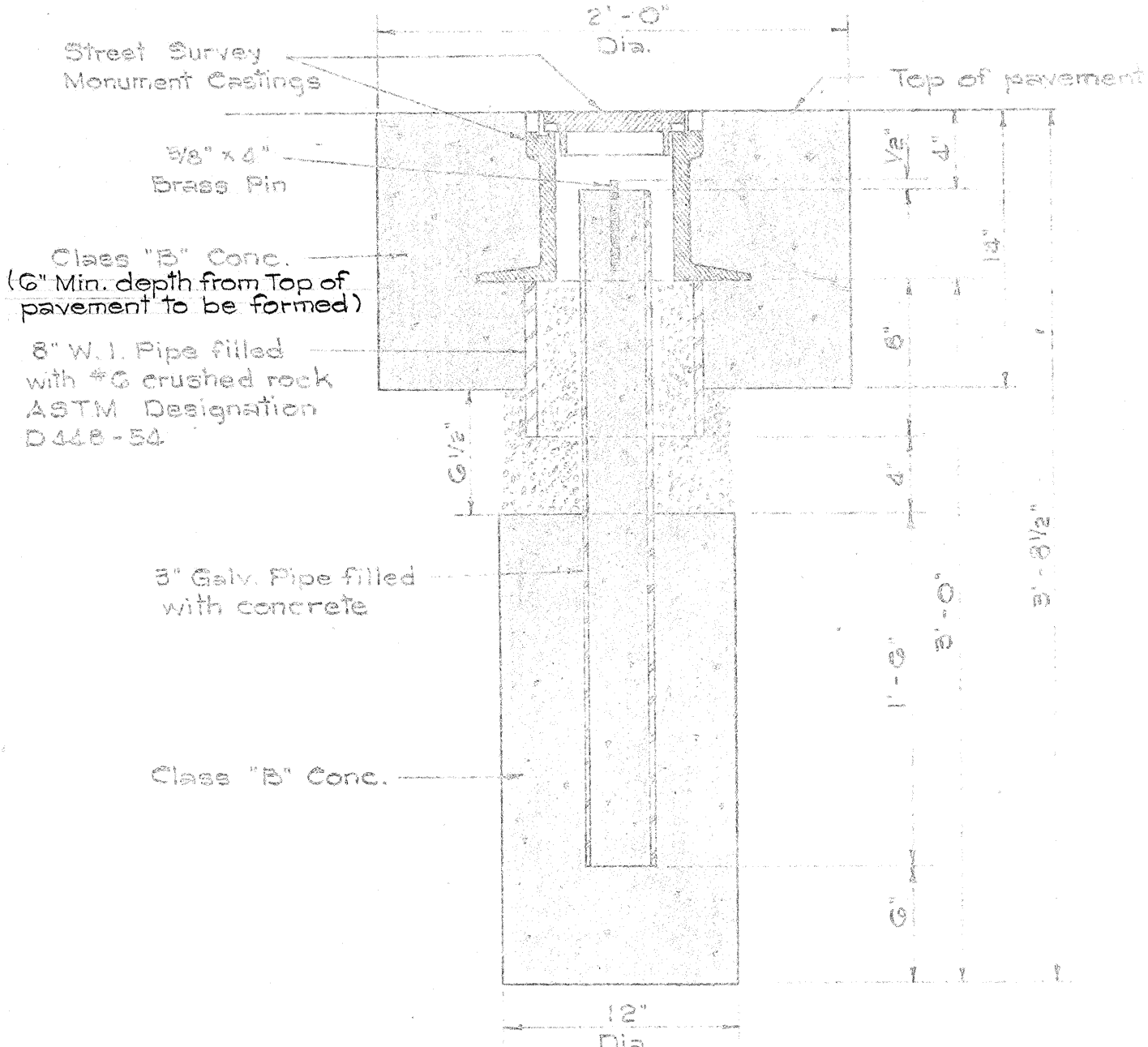
3 FT. CHAIN LINK FENCE ON RETAINING WALLS

LOCATION	LENGTH Lin. Ft.
CRM Wall #W-4 (Lot Tax Key 3-2-01:111)	72

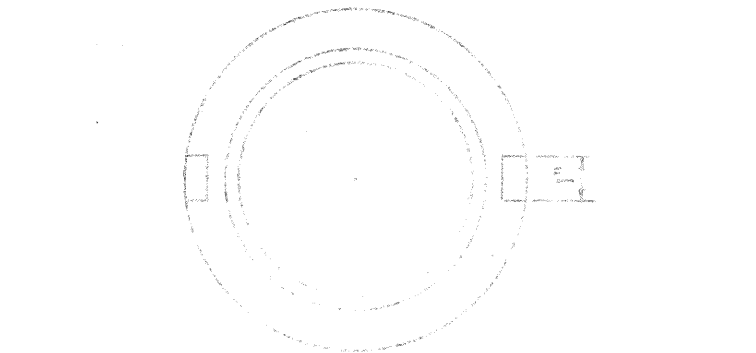
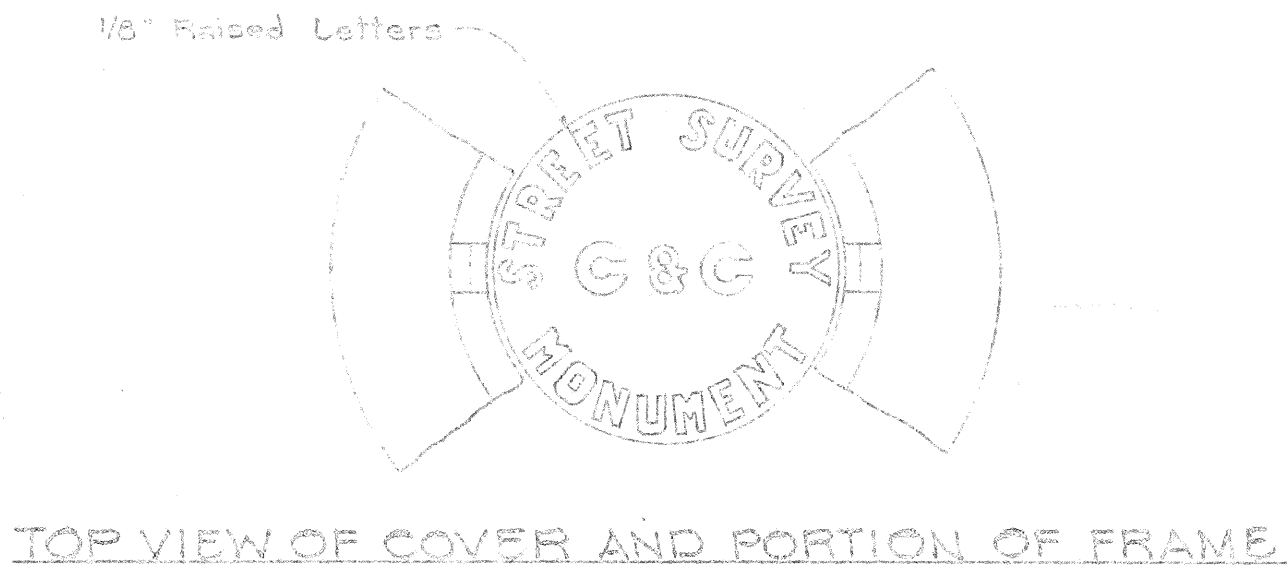
CHAIN LINK FENCE GATES

LOCATION			DIMENSIONS		NUMBER
ROAD	STATION	SIDE	HEIGHT	WIDTH	
South King	21+18	Lt.	6'	6'	1
Kapiolani	22+60	Lt.	6'	6'	1
First Ave. Ext.	1+38	Rt.	6'	6'	1
Harding	21+47	Rt.	6'	6'	1

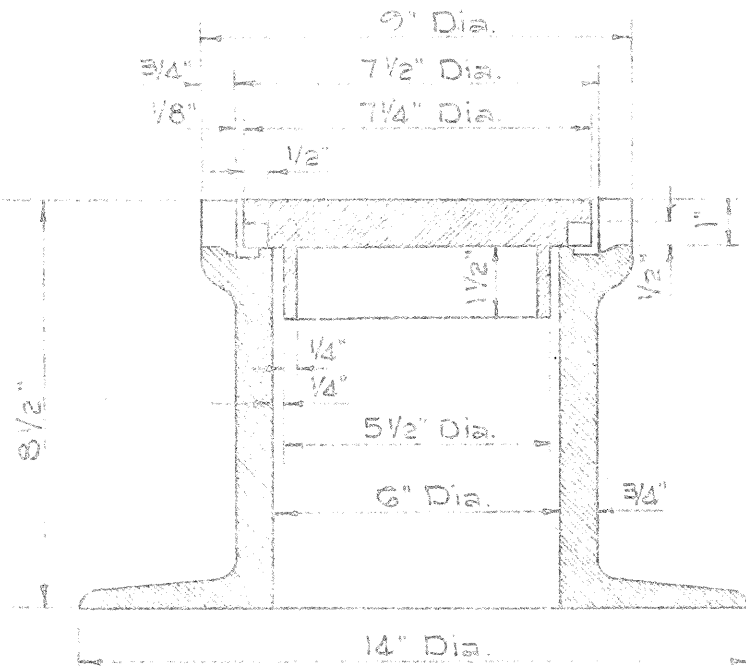
NOTE: All lengths shown on this sheet are estimates only.



STREET SURVEY MONUMENT
Scale: 1 1/2" = 1'-0"

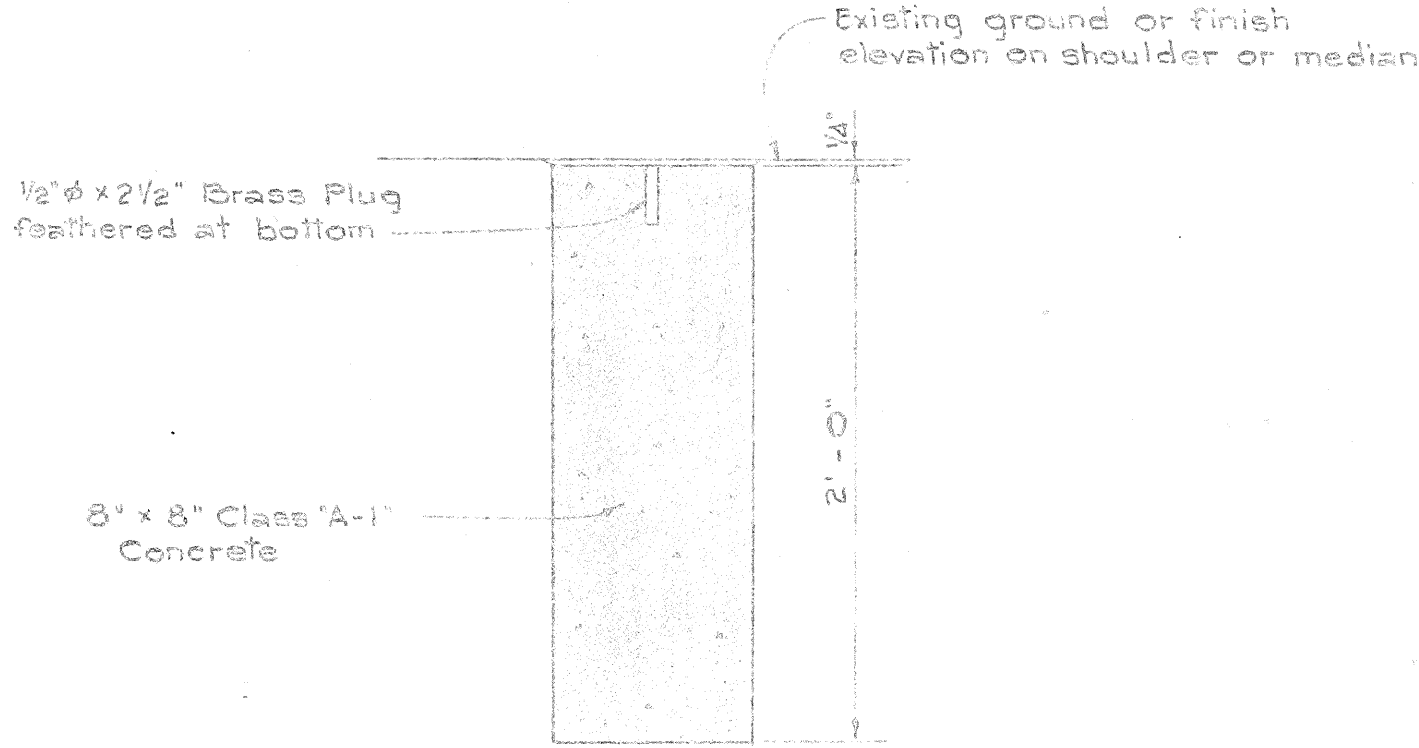


BOTTOM VIEW OF COVER



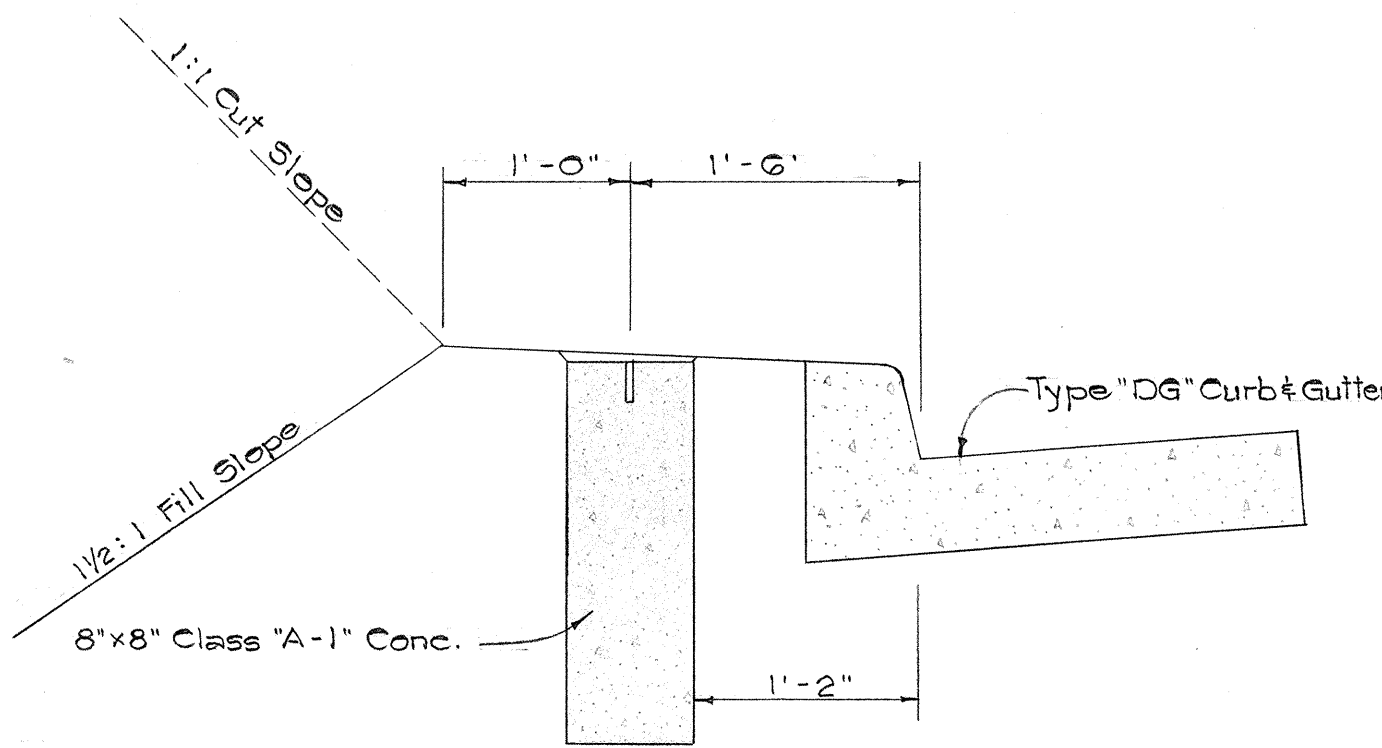
SECTIONAL VIEW OF FRAME AND COVER

STREET SURVEY MONUMENT CASTINGS
Scale: 3" = 1'-0"



DETAIL FOR CENTER LINE AND
REFERENCE SURVEY MONUMENT
Scale: 1 1/2" = 1'-0"

NOTE: Concrete footings for monuments shall be formed to a depth of 6" below finish ground elev. or precast concrete to size shown.



TYPICAL SECTION OF
REFERENCE SURVEY MONUMENT
Scale: 1" = 1'-0"

LIST OF CENTERLINE AND
REFERENCE SURVEY MONUMENTS

L O C A T I O N				No. OF MONUMENTS
ROAD	STATION	OFFSET FROM BASELINE TO REF. MON.		
		LEFT	RIGHT	
I.B. & P.C.	25+83.81			1
I.B. & P.I.				1
I.B. & P.T.	32+82.70			1
I.B. & P.O.T.	37+01.74			1
O.B. & S.T.	37+02.30			1
I.B. & P.C.	37+68.15			1
I.B. & P.T.	39+73.42	45.0		2
I.B. & P.C.	43+67.01	45.0		2
O.B. & P.C.	56+98.50	77.5	77.5	2

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL OF
SURVEY MONUMENTS

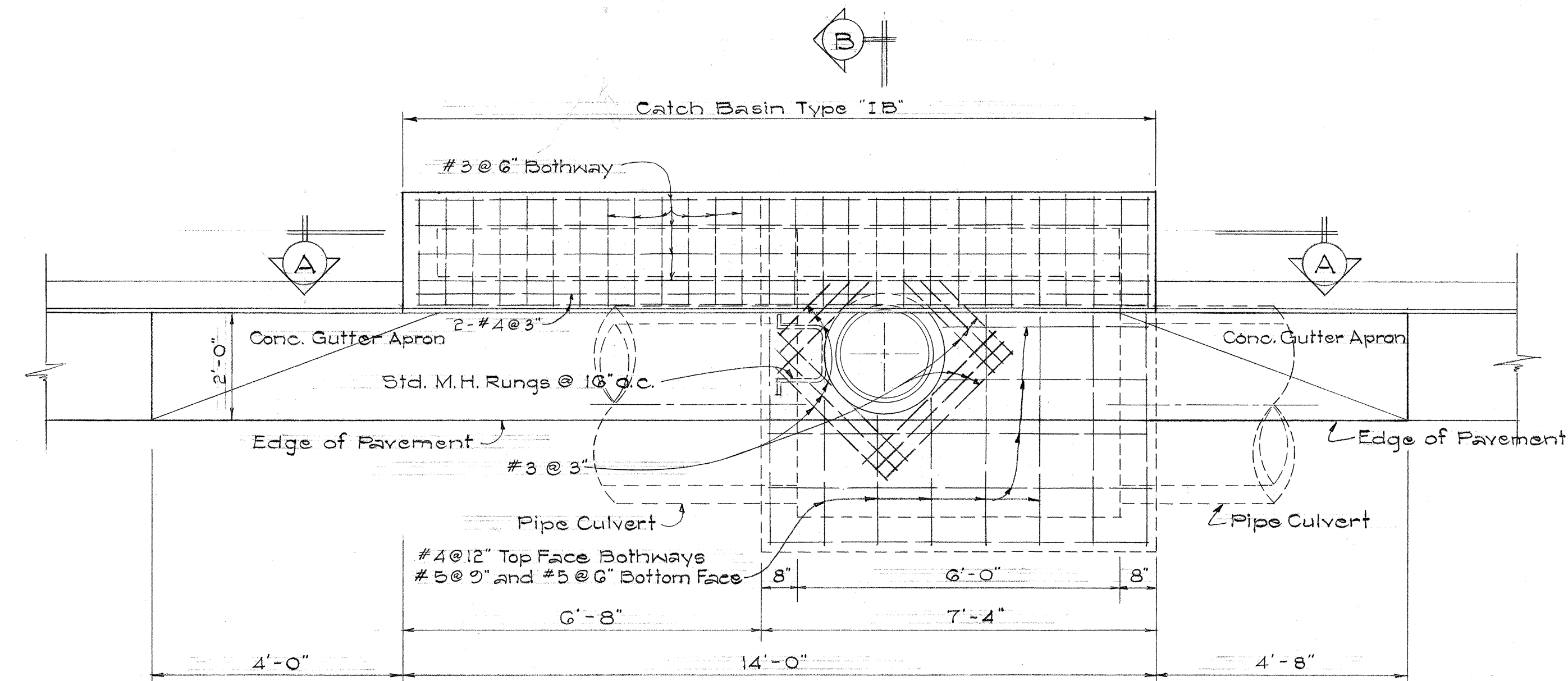
F.A.I. Proj. No. I-H-1-(5):24, Unit 2

Scale: As Shown

Date: May, 1965

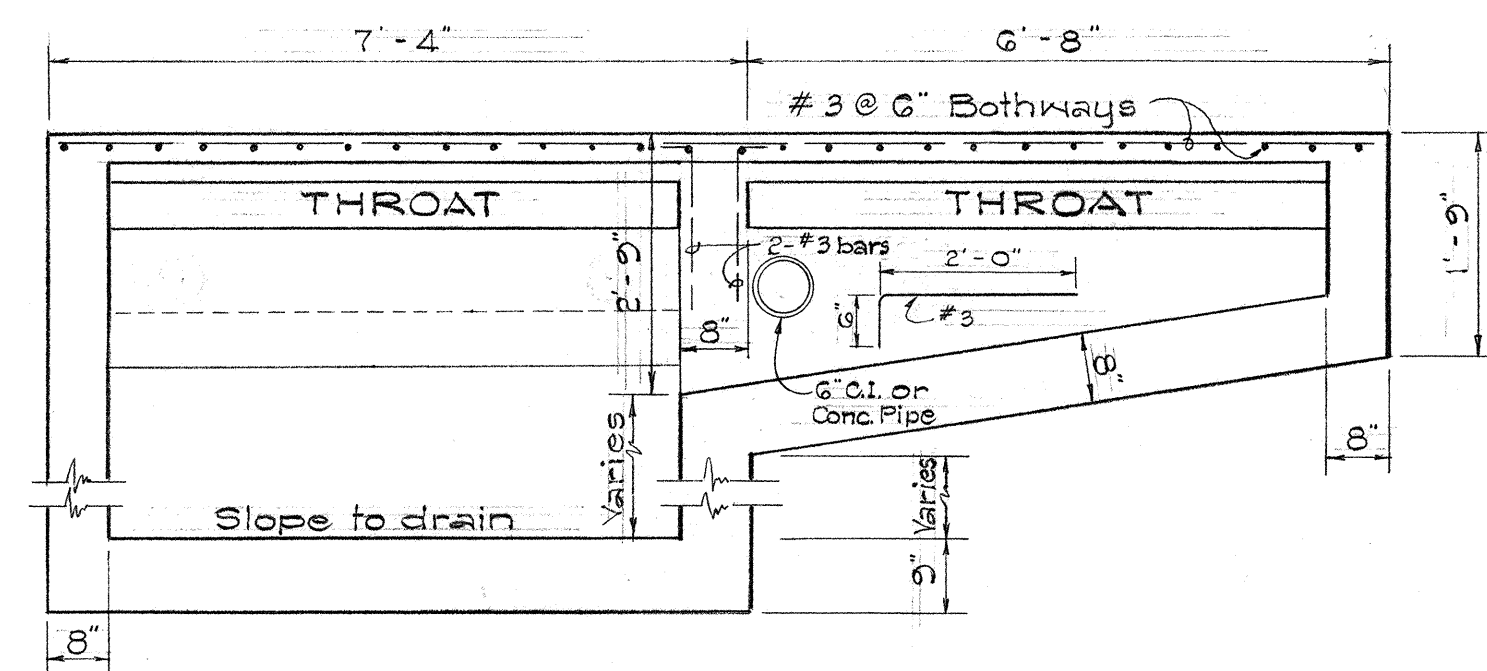
SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	131-10-24 Unit 2	1965	40	276

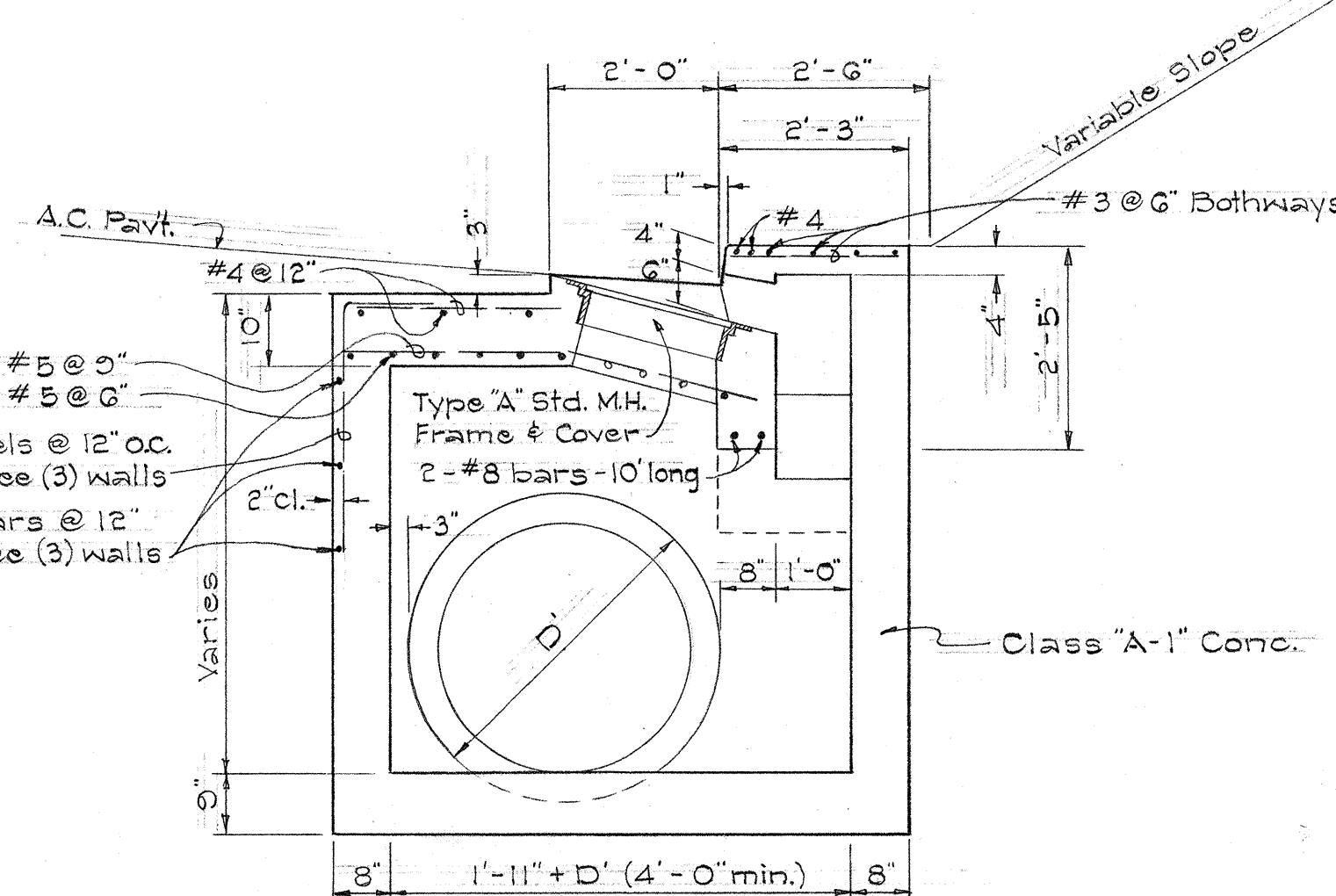


- NOTE:
1. Catch Basin type "IC" is similar but opposite hand.
 2. Location of Frame and Cover and/or Standard manhole rungs shall be determined by the Engineer.

PLAN



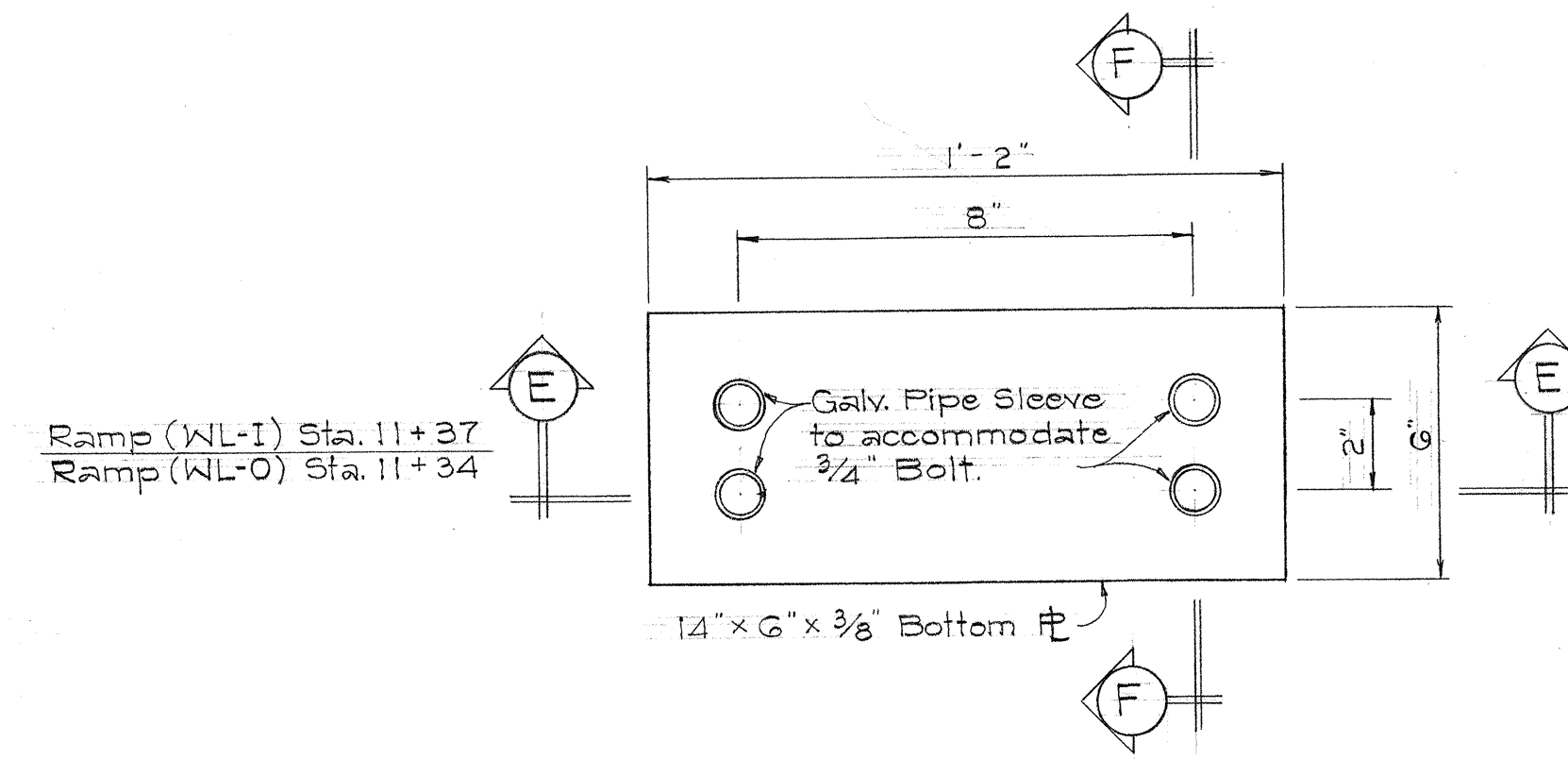
SECTION "A-A"



SECTION "B-B"

CATCH BASIN TYPE "IB" & "IC"

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



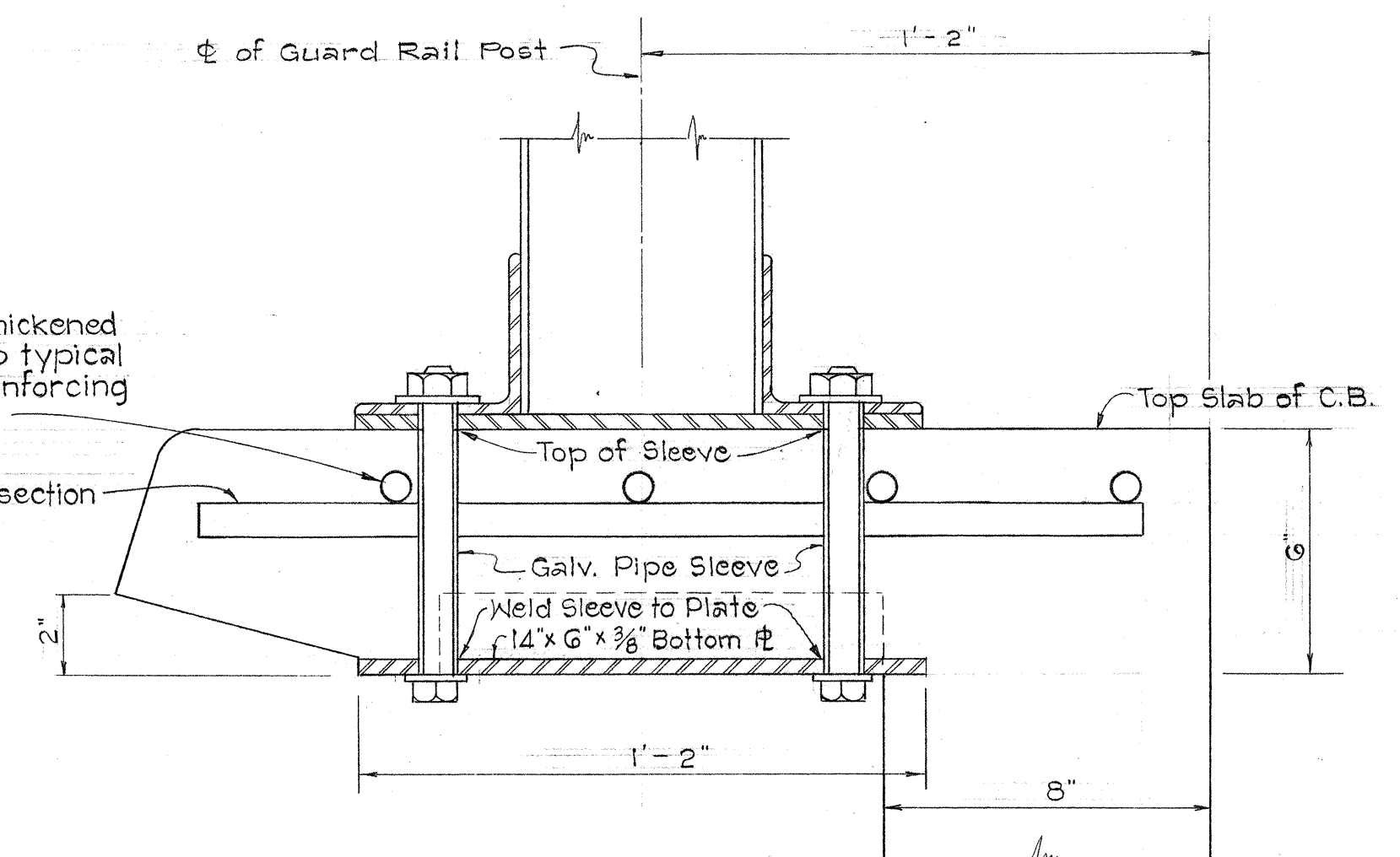
PLAN

NOTE

1. Reinforcing for top slab similar to reinforcing for type "IB" C.B. except for thickened section.
2. Bottom Plate Assembly (bottom plate and sleeves) shall be installed with roof slab, incidental to reinforcing steel.
3. Exposed surfaces of the bottom plate assembly shall be painted with one prime coat and two field coats in accordance with Section 42 of the specifications. The choice of field coat shall be at the contractor's option.

#6 @ 6" o.c. @ thickened section. Lap typical top slab reinforcing 12" min.

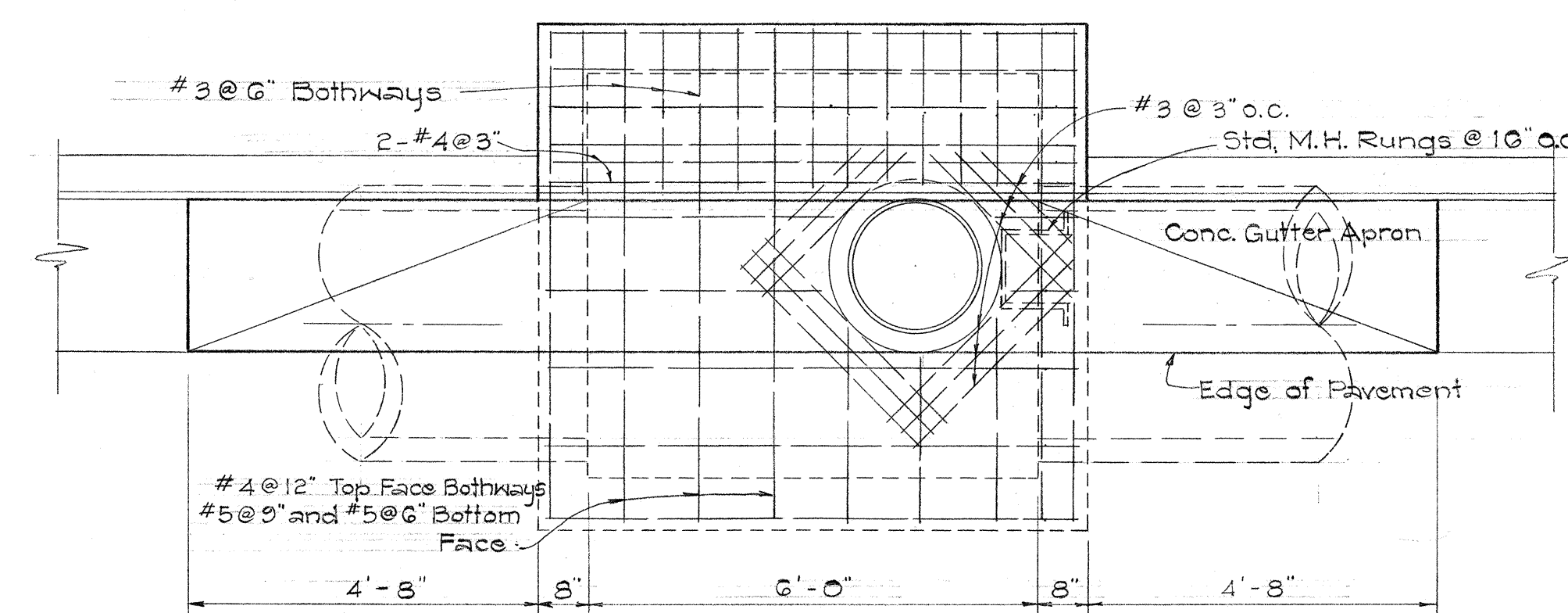
#7 @ 6" o.c. @ thickened section



SECTION "E-E"

DETAIL OF BOTTOM PLATE ASSEMBLY FOR GUARD RAIL POST CONNECTION

Scale: 3" = 1'-0"



PLAN

CATCH BASIN TYPE "ID"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

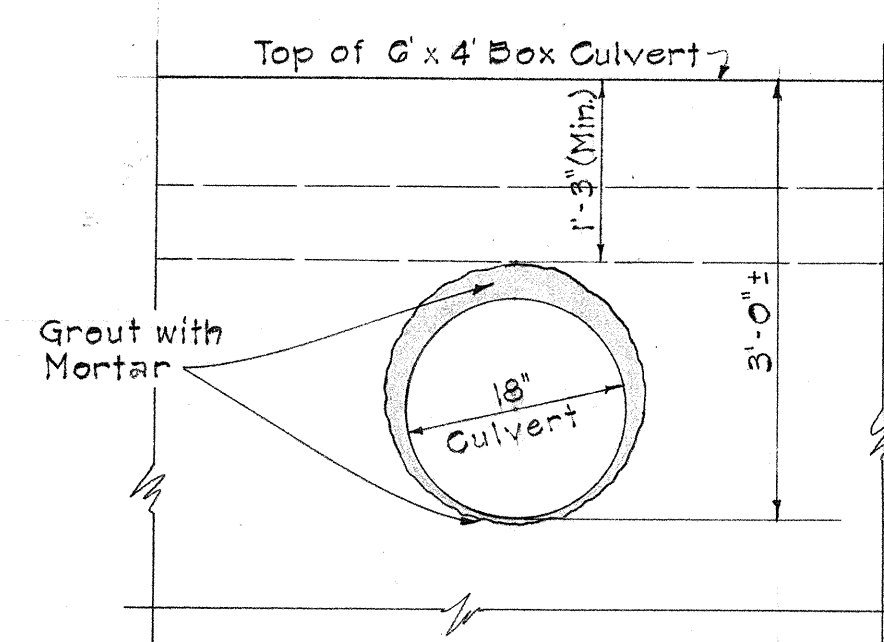
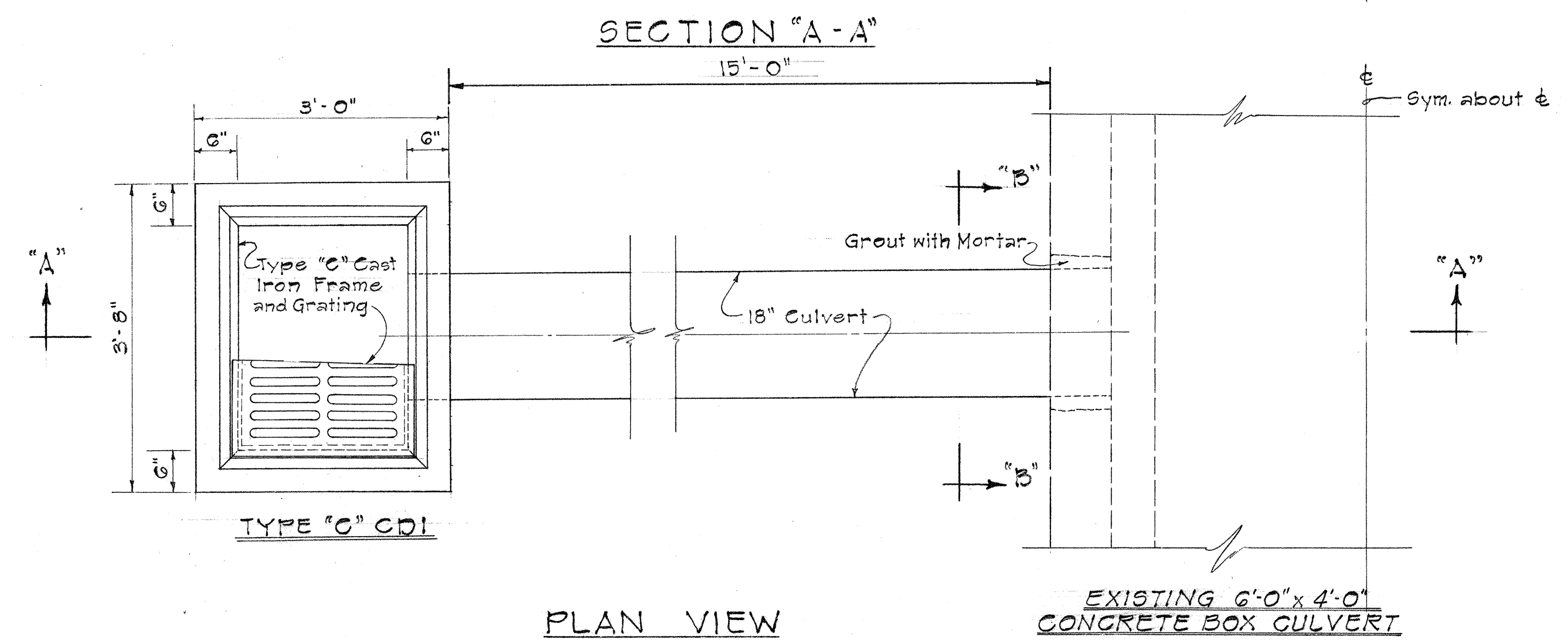
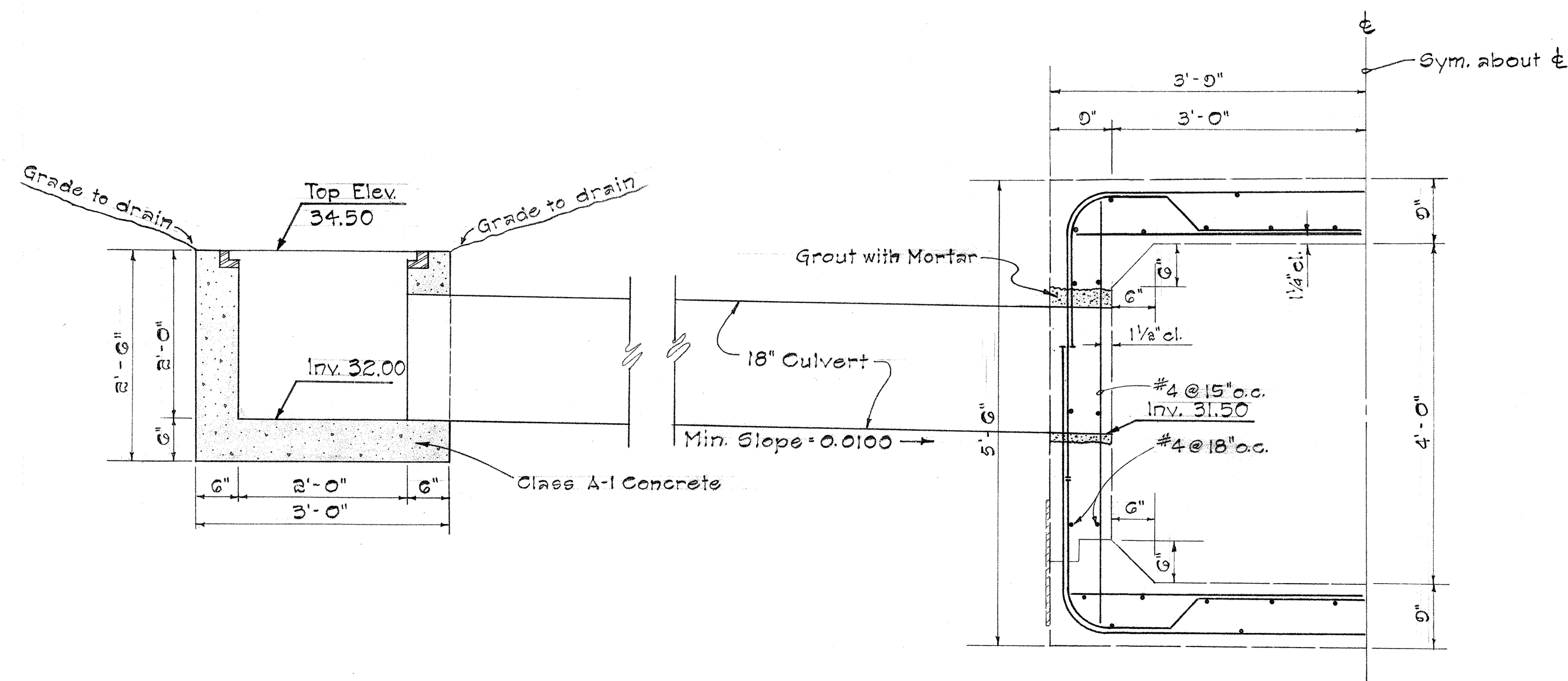
DRAINAGE DETAILS

FAI Proj. No. I-H1-1(5):24, Unit 2

Scale: As shown Date: May, 1965

SHEET No. 2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(5)-84 Unit 2	1965	20405	276



NOTE:
Construct Type "C" CDI and install 18" C.I. Frame and Grate. Install 18" CGMP, to gage from CDI to existing 6'x4' Conc. Box Culvert. Break into Concrete Box Culvert with an opening sufficient to accommodate culvert.
Exact location of CDI and opening in 6'x4' Concrete Box Culvert to be determined in the field by the engineer. Refer to sheet 43 of the Contract Plans for dimensions to Type "C" C.I. Frame and Grate.

CONNECTION OF TYPE "C" CDI AND 18" CULVERT WITH EXISTING 6'-0" x 4'-0" CONCRETE BOX CULVERT IN THE VICINITY OF RAMP H-K STA. 3+70± RIGHT

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONNECTION OF TYPE "C" CDI WITH
EXISTING 6'-0" x 4'-0" CONCRETE BOX CULVERT
F.A.I. PROJ. No. I-HI-1(5)-84 Unit 2
Scale: As Shown Date: Feb. 1966

CHANGE ORDER No. 23

February 7, 1966

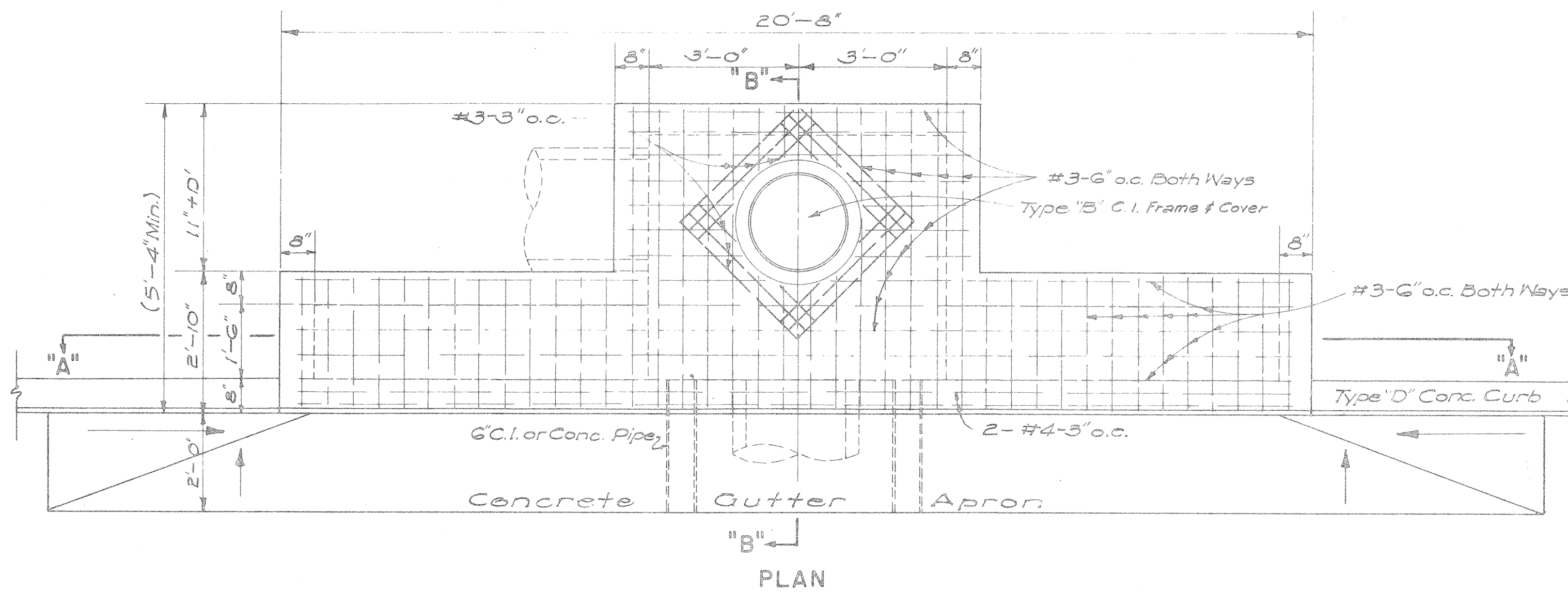
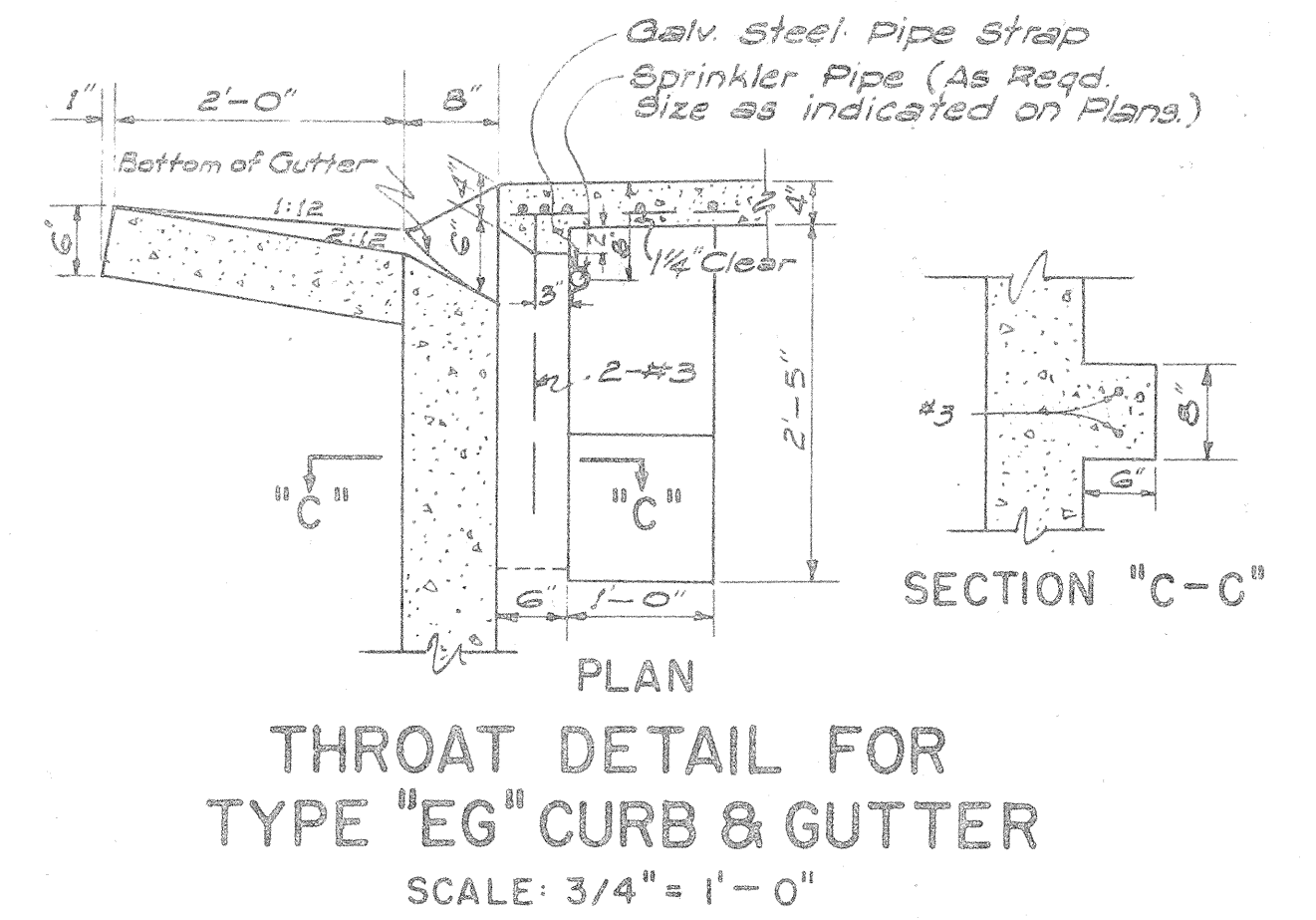
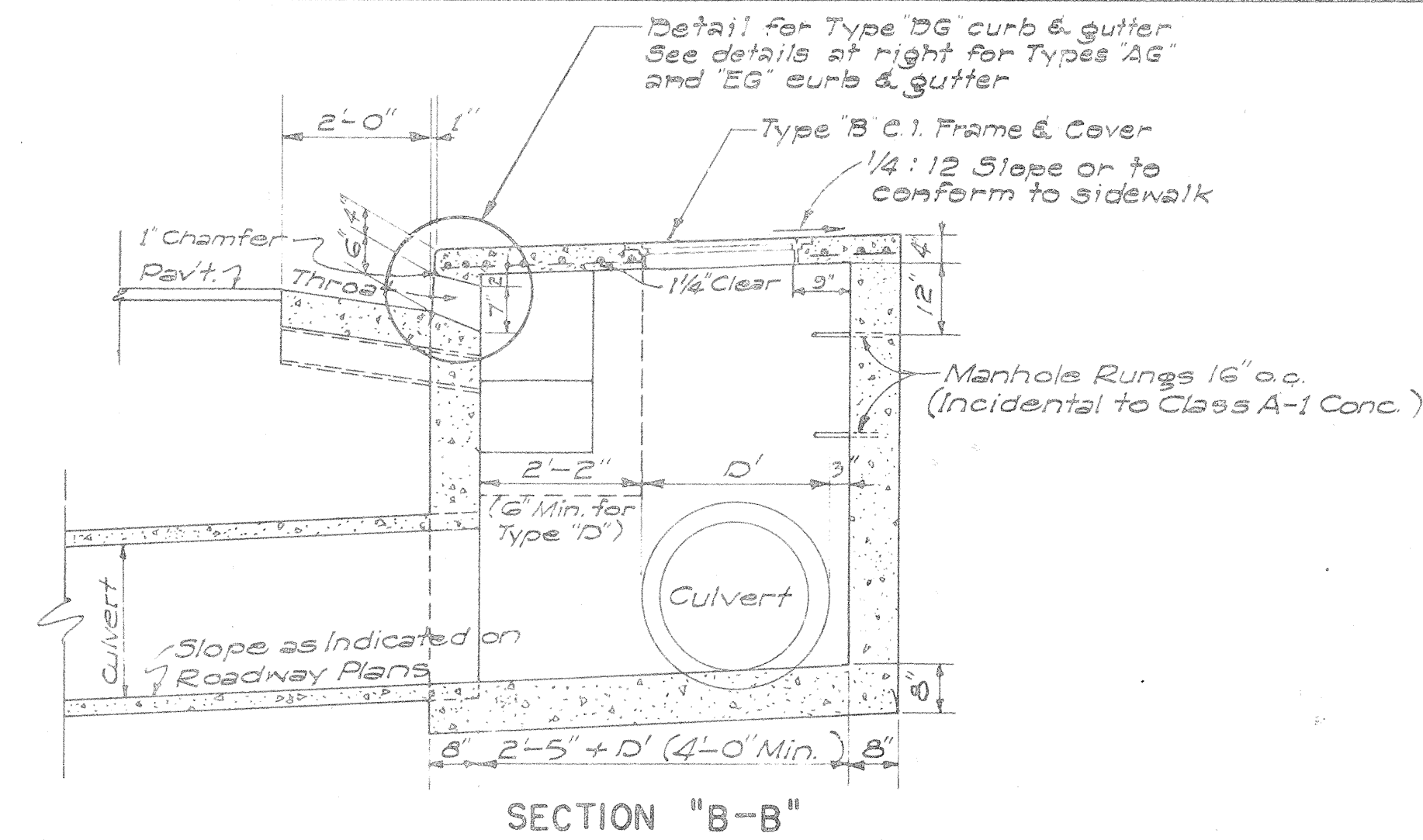
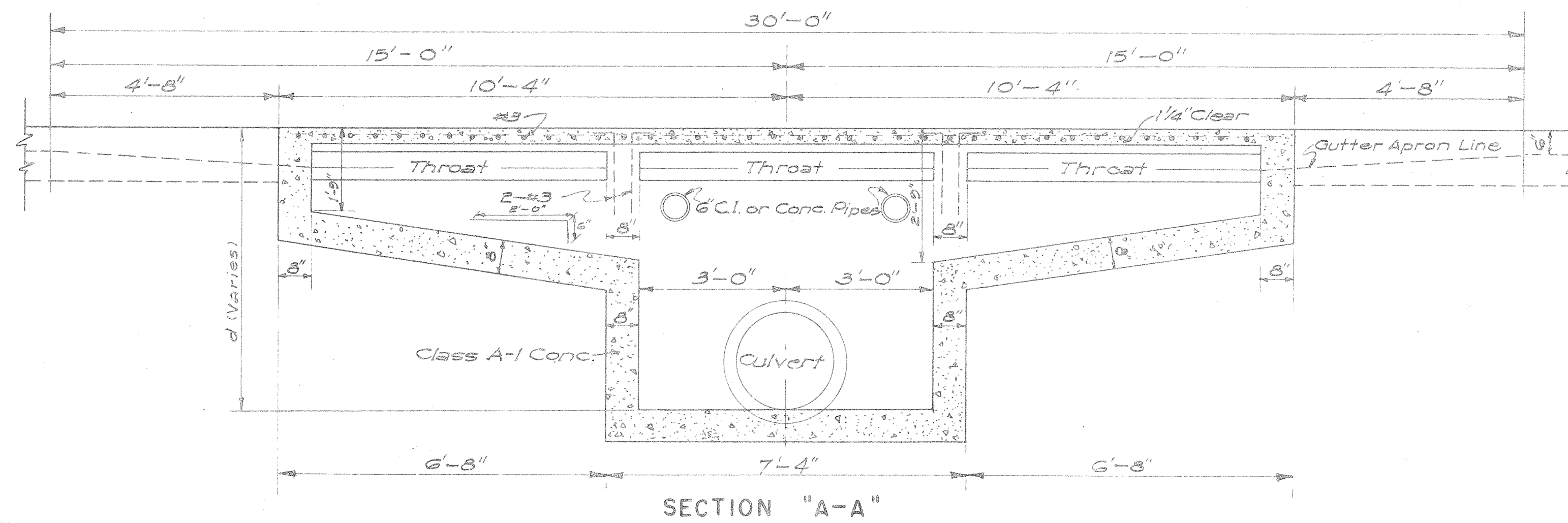
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHEET No. OF SHEETS

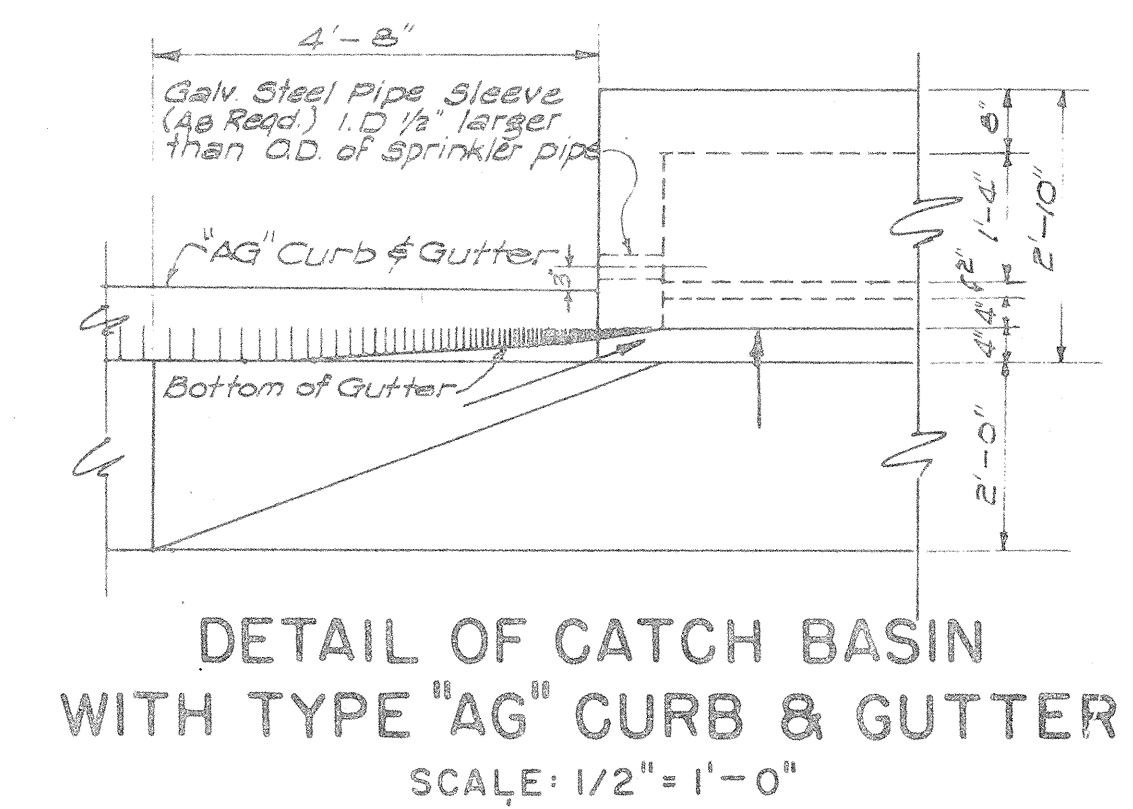
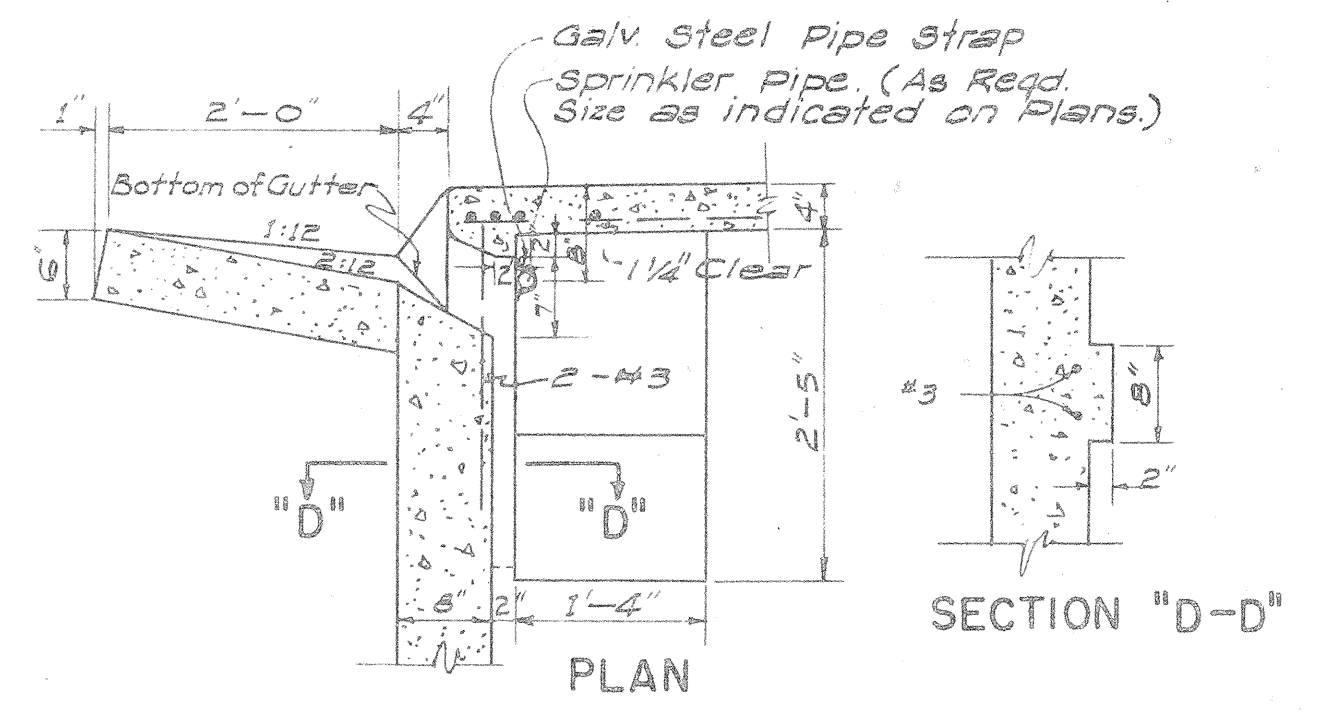
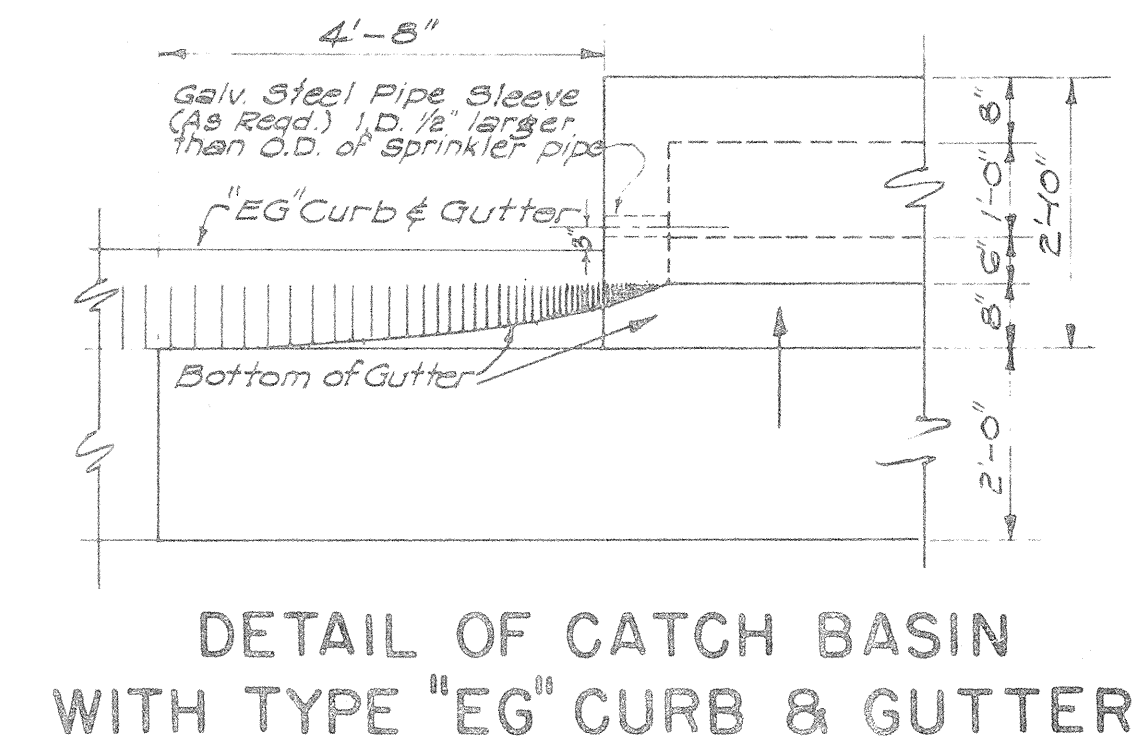
20405 - 1

2/17/59

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	141(0-24)	1955	41	270



DETAIL OF TYPE "A" CATCH BASIN
SCALE: 1/2" = 1'-0"

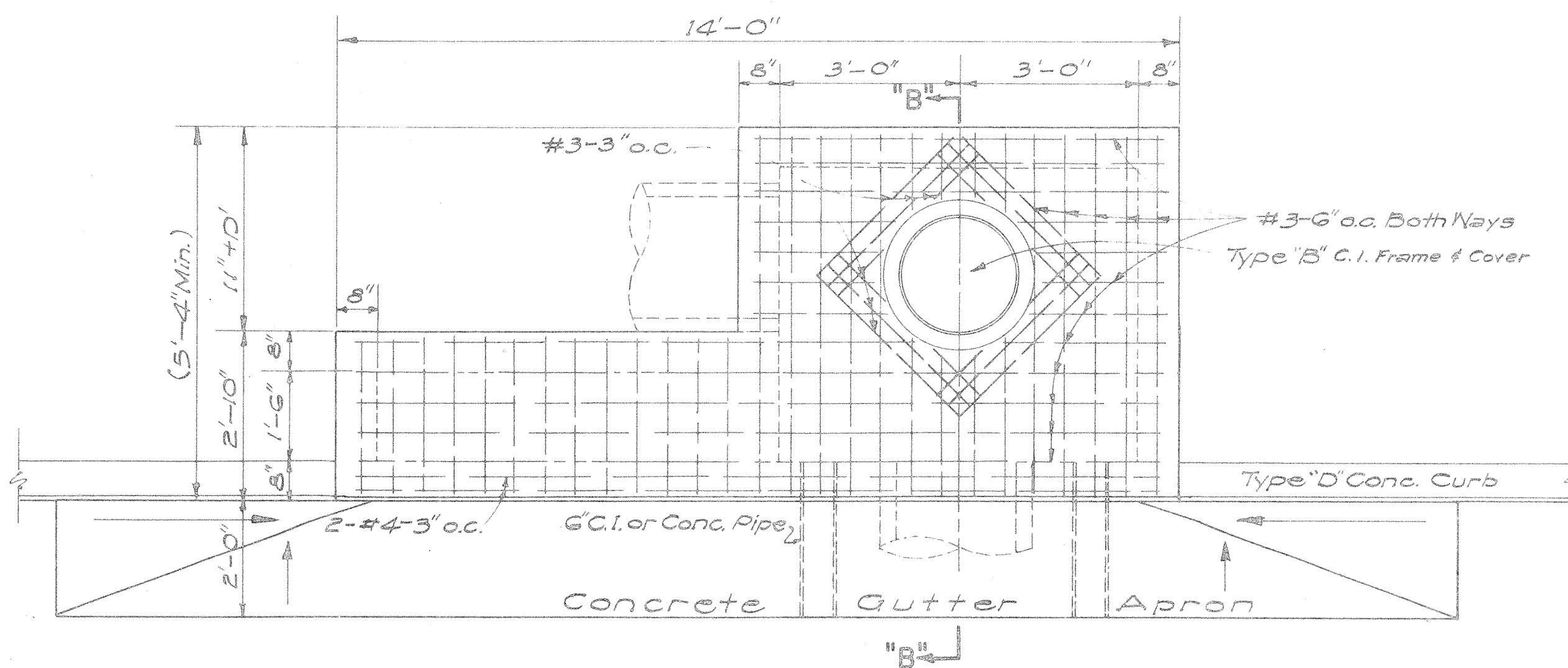


ESTIMATED QUANTITIES

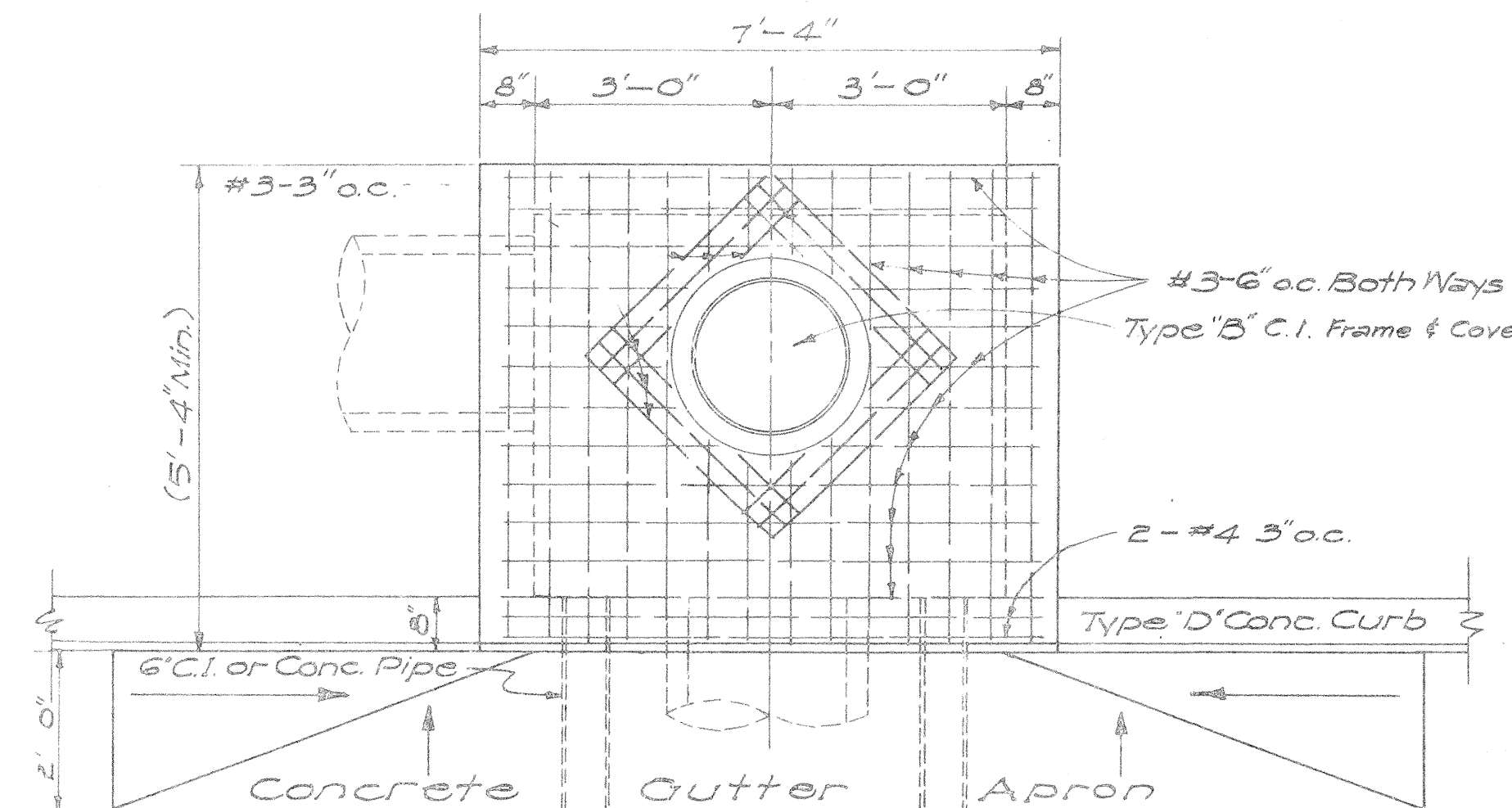
Type	Class A-1 Conc.	Struct. Exc.	Reinf. Steel	Gutter Length
"A"	7.5 cy	24.7 cy	145 lb.	30'-0"
"B"	6.0 cy	21.5 cy	108 lb.	23'-4"
"C"	6.0 cy	21.5 cy	108 lb.	23'-4"
"D"	4.0 cy	16.5 cy	77 lb.	16'-8"

NOTES:

- Quantities based on $d = 5.75'$ and $D = 30'$
- Quantities do not include concrete for Gutter Apron.
- The Contractor shall install two 6" Cast Iron or Concrete Pipes as incidental to Class A-1 Concrete for Construction Drainage.
- Culvert shall leave C.B. from any position and any direction indicated by plans or ordered by the Engineer. Culvert may both enter and leave C.B. so that C.B. will also act as Manhole.
- The Contractor shall install Galvanized Steel Pipe Sleeves and Straps as incidental to Sprinkler System.



NOTE: TYPE "C" C.B. SIMILAR BUT OPPOSITE HAND



APPROVED: _____ DATE: Aug. 26, 1959
STATE HIGHWAY ENGINEER

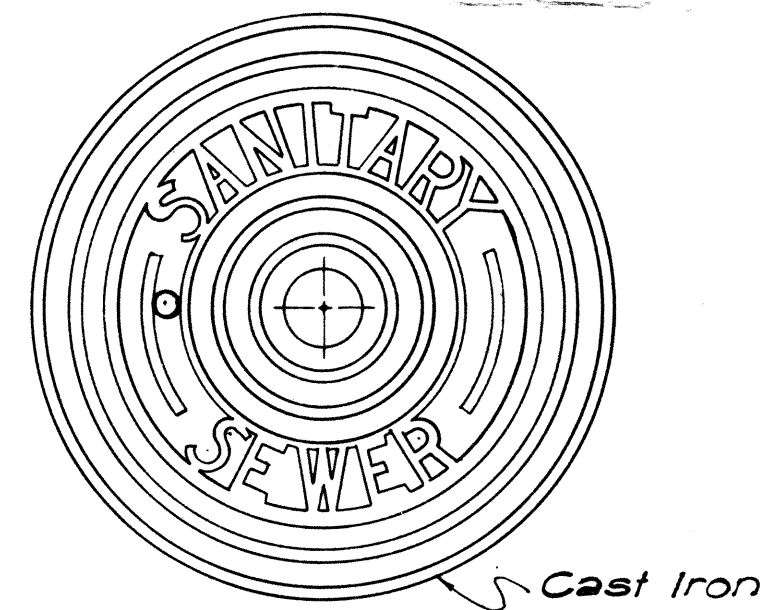
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
CATCH BASINS

SCALES AS NOTED
SHEET NO 3 OF 7 SHEETS

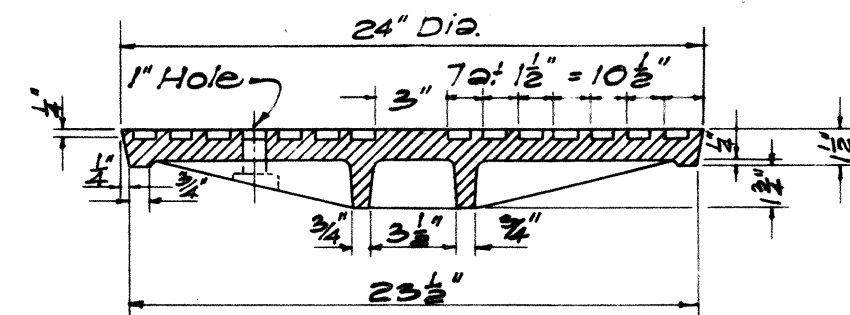
2/17/57
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	131-15/24	1955	43	276
August 1957					

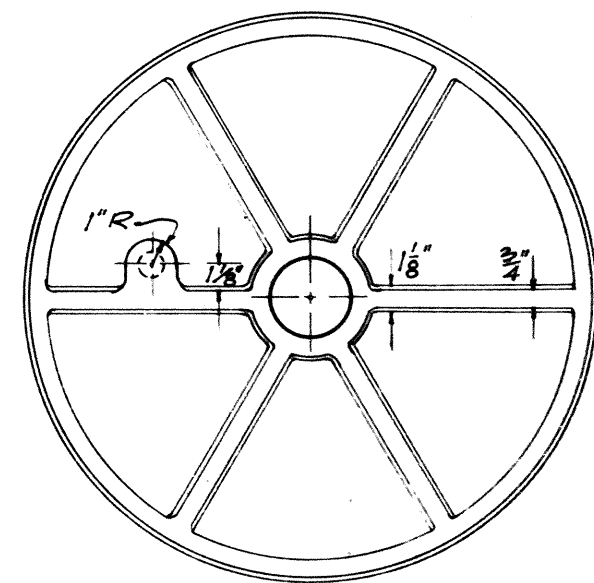
NOTE: Stock Pattern From Novelty Foundry ~ Honolulu



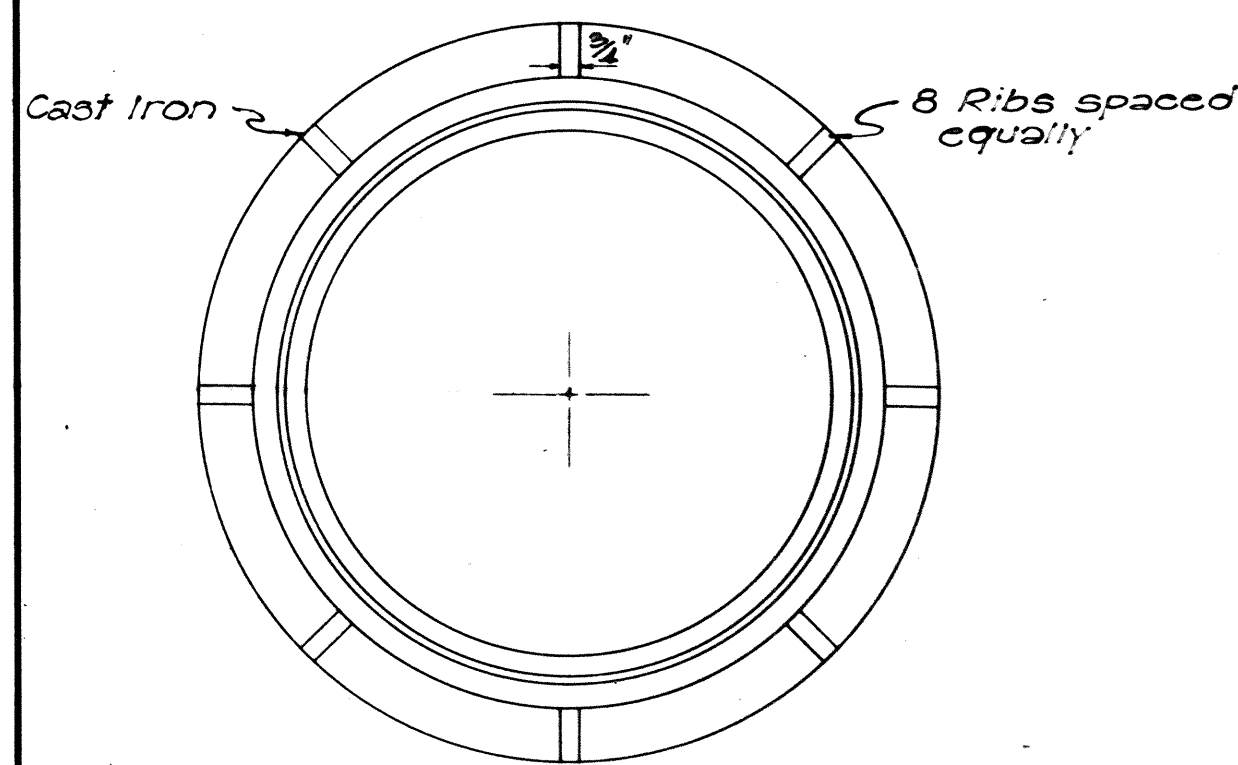
TOP VIEW OF COVER



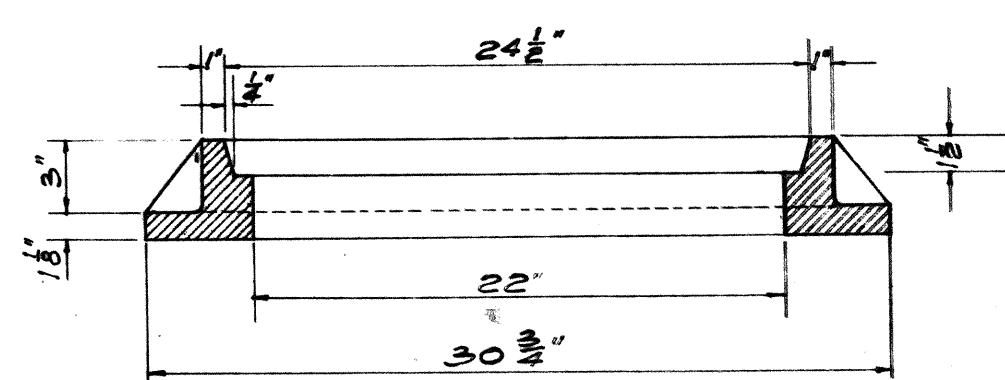
SECTION



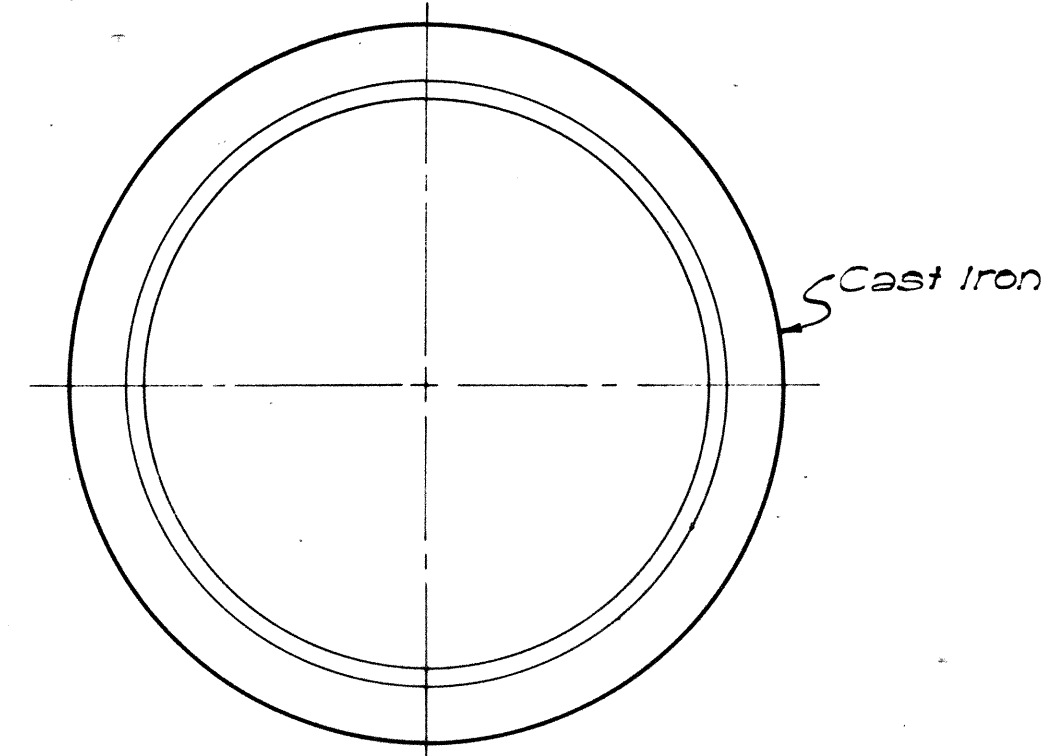
BOTTOM VIEW OF COVER



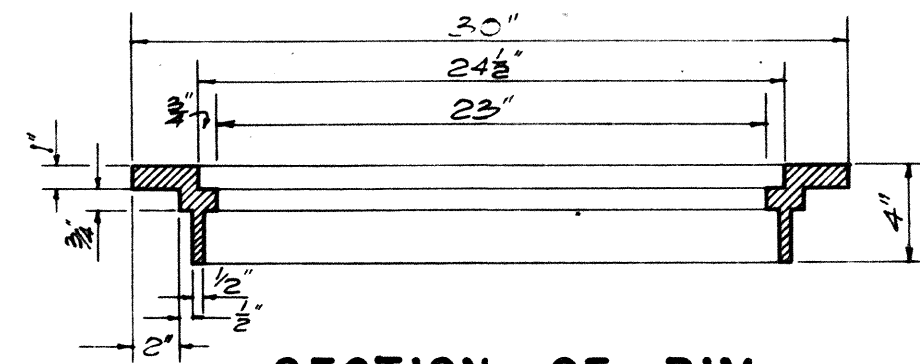
PLAN OF RIM



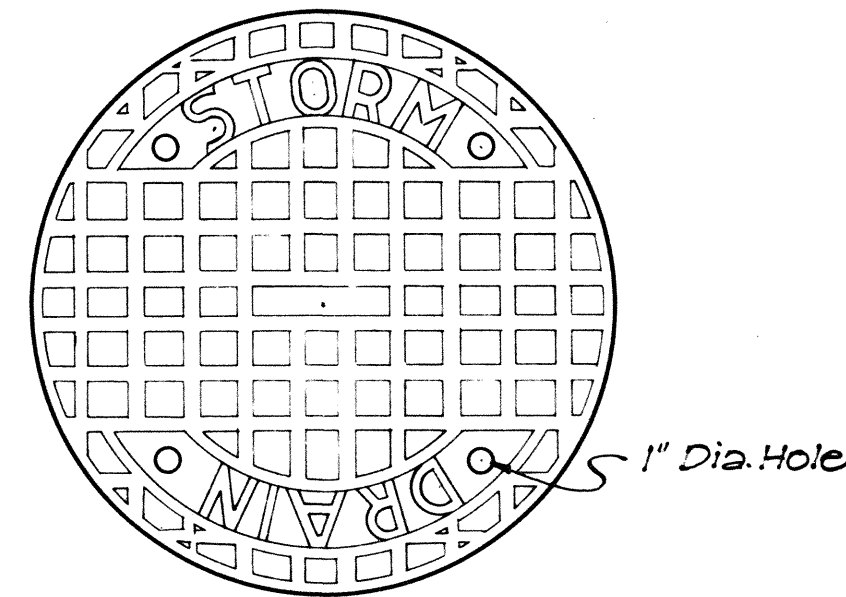
SECTION OF RIM
DETAILS OF TYPE "S"
CAST IRON FRAME AND COVER
SCALE: 1-1/2" = 1'-0"



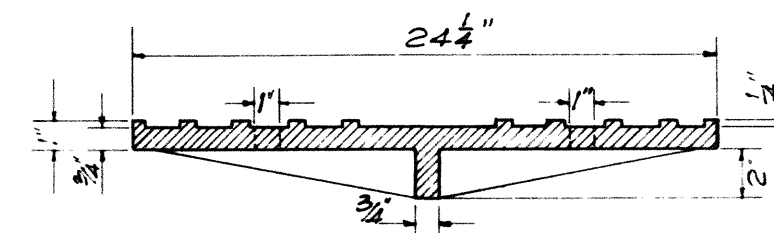
PLAN OF RIM



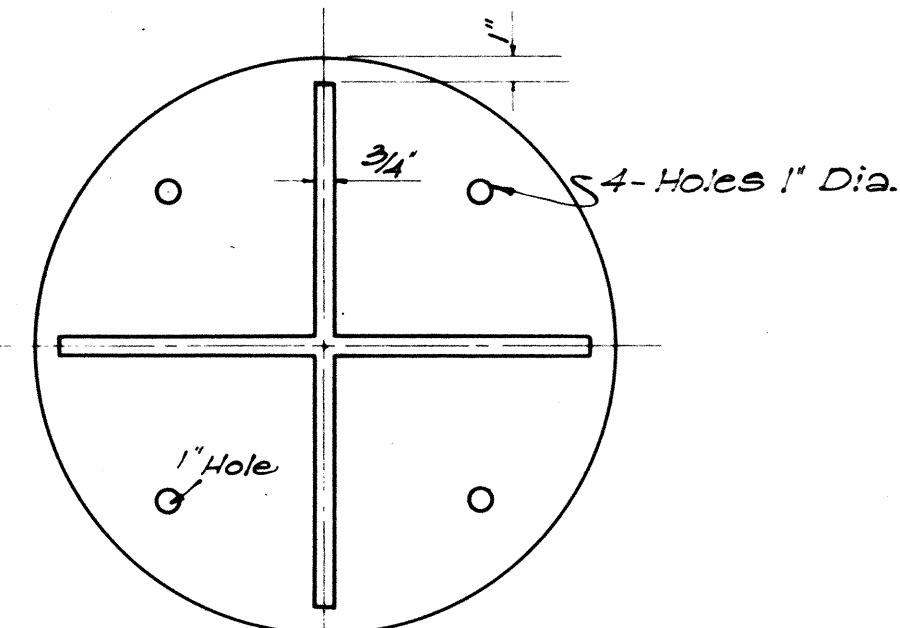
SECTION OF RIM



TOP VIEW OF COVER

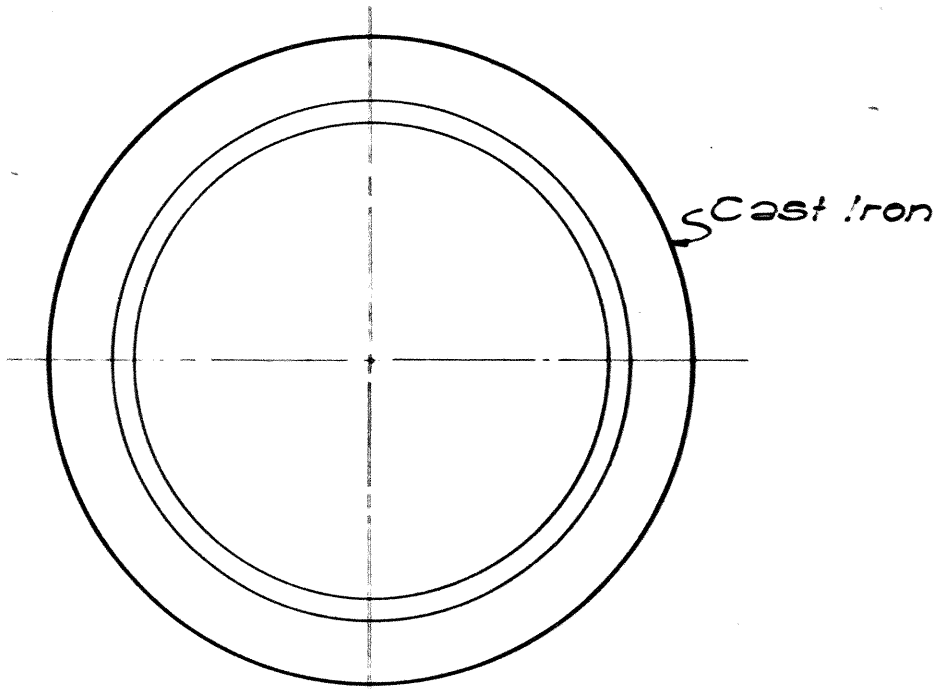


SECTION

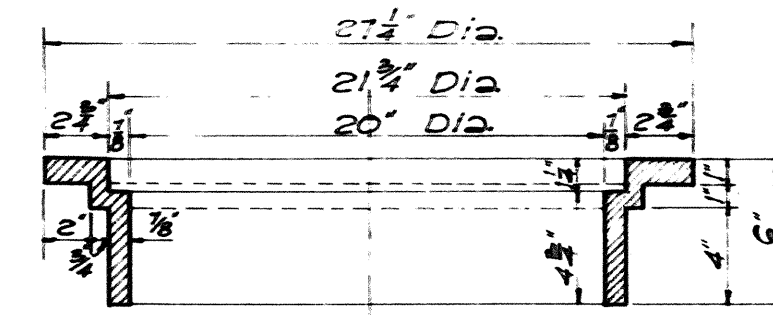


BOTTOM VIEW OF COVER

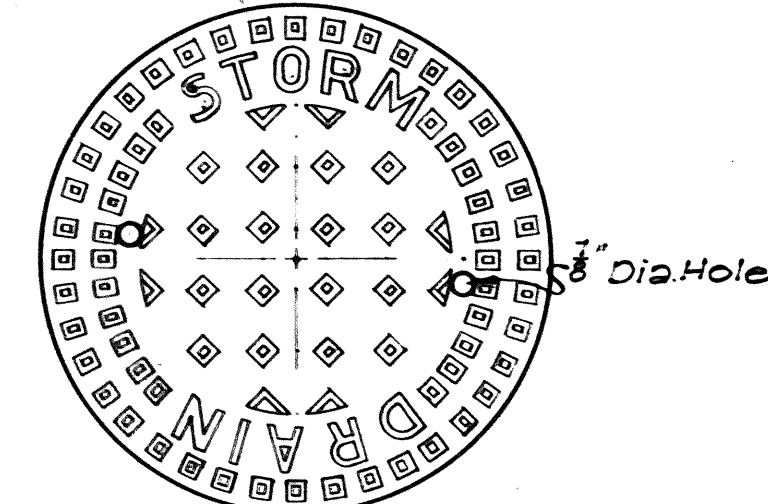
DETAILS OF TYPE "B"
CAST IRON FRAME AND COVER
SCALE: 1-1/2" = 1'-0"



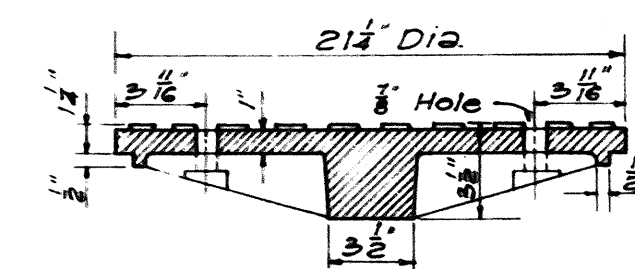
PLAN OF RIM



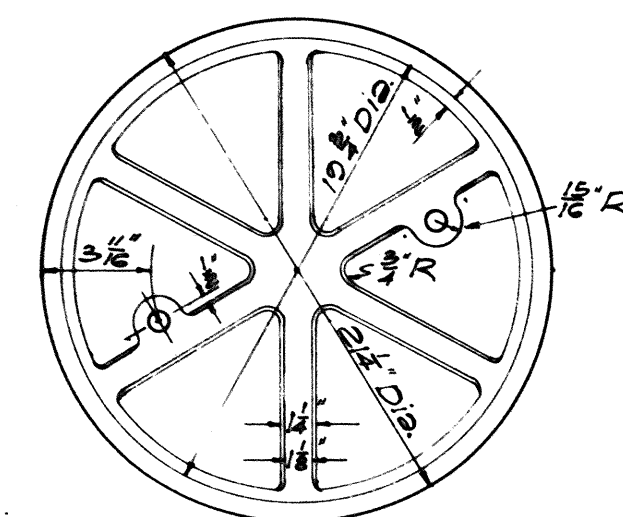
SECTION OF RIM



TOP VIEW OF COVER

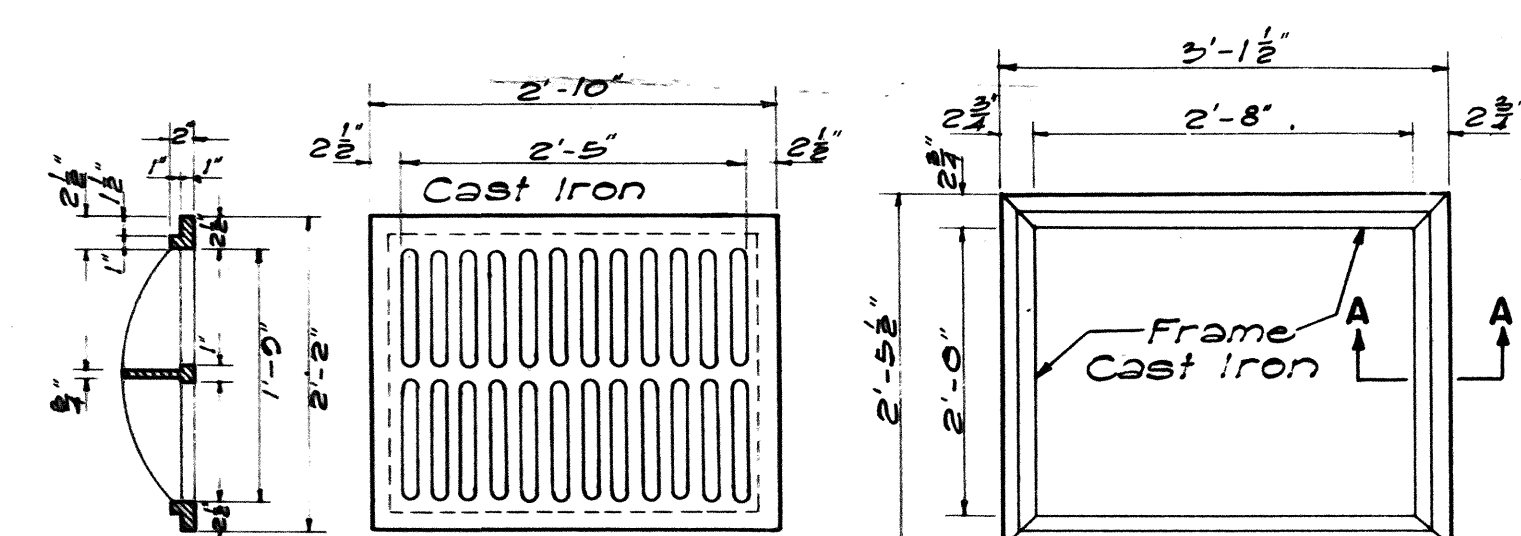


SECTION

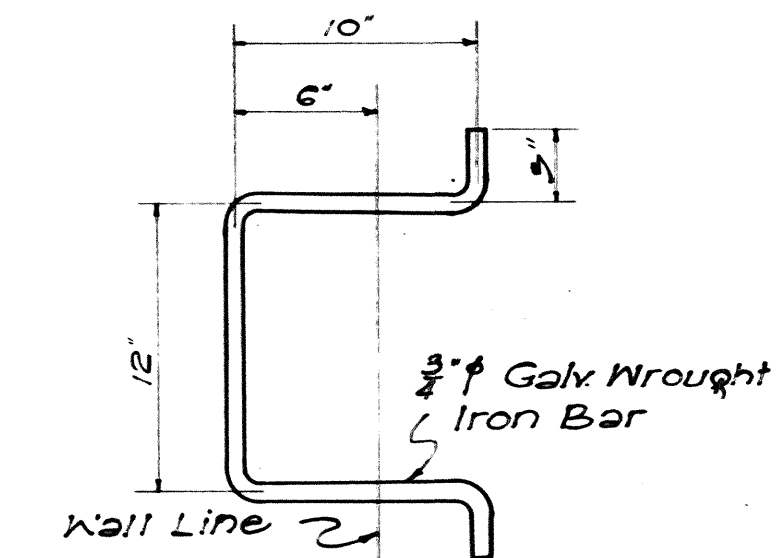


BOTTOM VIEW OF COVER

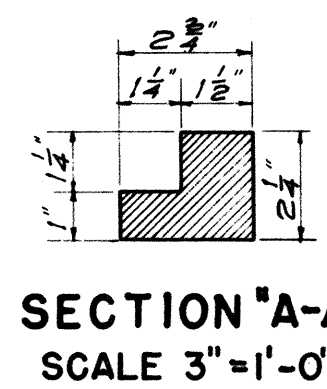
DETAILS OF TYPE "A"
CAST IRON FRAME AND COVER
SCALE: 1-1/2" = 1'-0"



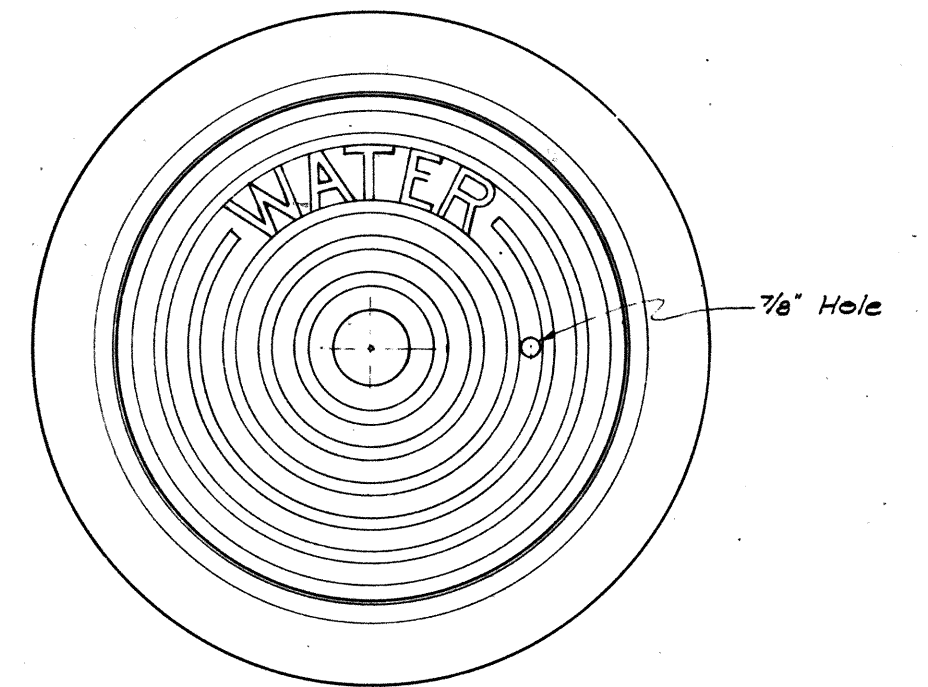
SECTION TOP VIEW TOP VIEW
TYPE C C.I. FRAME AND GRATING
SCALE: 3/4" = 1'-0"



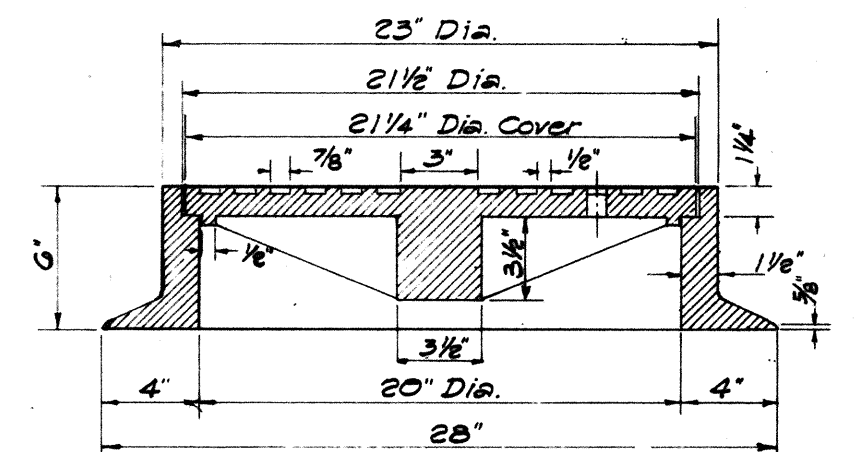
MANHOLE RUNG
SCALE: 1-1/2" = 1'-0"



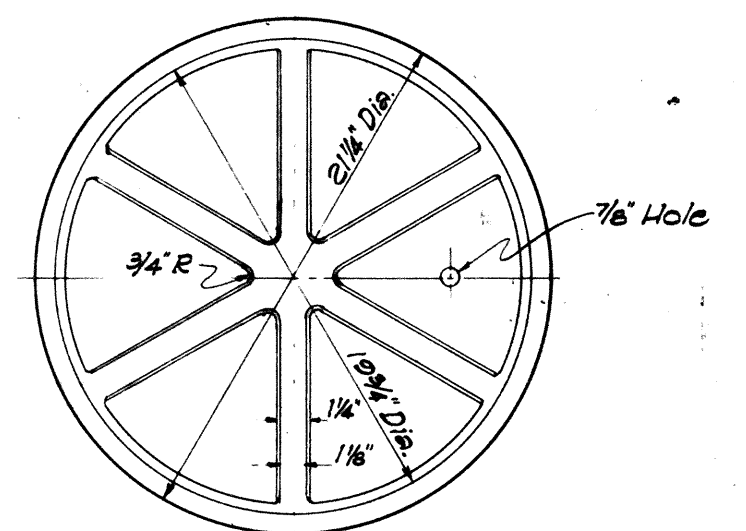
SECTION "A-A"
SCALE 3" = 1'-0"



PLAN OF FRAME AND COVER



SECTION OF FRAME AND COVER



BOTTOM VIEW OF COVER

DETAILS OF TYPE "W"
CAST IRON FRAME AND COVER
SCALE: 1-1/2" = 1'-0"

NOTE:

THE TYPE "S" CAST IRON FRAME AND COVER SHOWN ON THIS SHEET IS EQUIVALENT TO THE CITY AND COUNTY OF HONOLULU, DIVISION OF SEWERS' TYPE "A" CAST IRON MANHOLE FRAME AND COVER.

THE TYPE "W" CAST IRON FRAME AND COVER SHOWN ON THIS SHEET IS EQUIVALENT TO THE CITY AND COUNTY OF HONOLULU, BOARD OF WATER SUPPLY'S CAST IRON MANHOLE FRAME AND COVER, 20" SIZE.

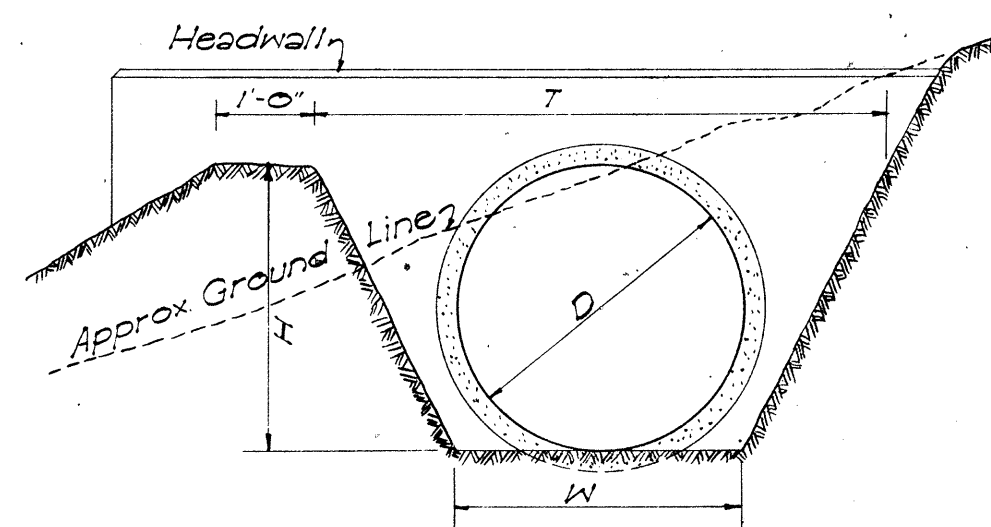
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
CATCH BASIN AND
MANHOLE CASTINGS
SCALES AS NOTED

SHEET NO 5 OF 7 SHEETS

41 33

DATA FOR OUTLET DITCH			
D	W	H	T=H+H
18"	24"	2'-0"	4'-0"
24"	30"	2'-0"	4'-6"
30"	36"	2'-6"	5'-0"
36"	36"	3'-0"	6'-0"



DETAIL OF OUTLET DITCH

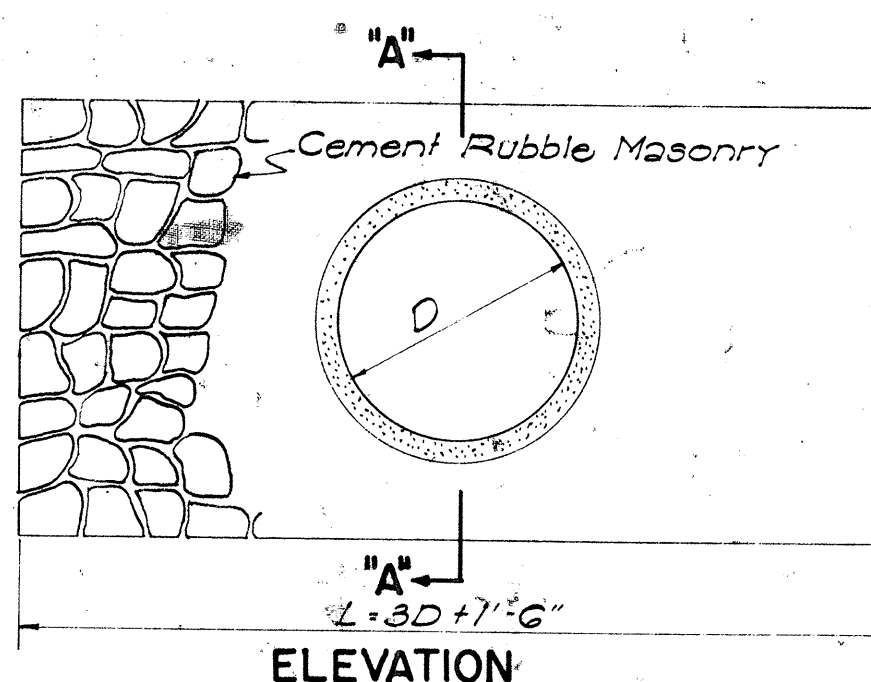
Scale: 1/2" = 1'-0"

DATA FOR MASONRY DROP INTAKE				Where Variables Equal
D	D	L=D+G	Cu Yds.	
23"	18"	2'-5"	3.02	4'-6"
30"	24"	3'-0"	3.61	5'-0"
37"	30"	3'-7"	4.21	5'-6"
44"	36"	4'-2"	4.85	6'-0"

NOTE:

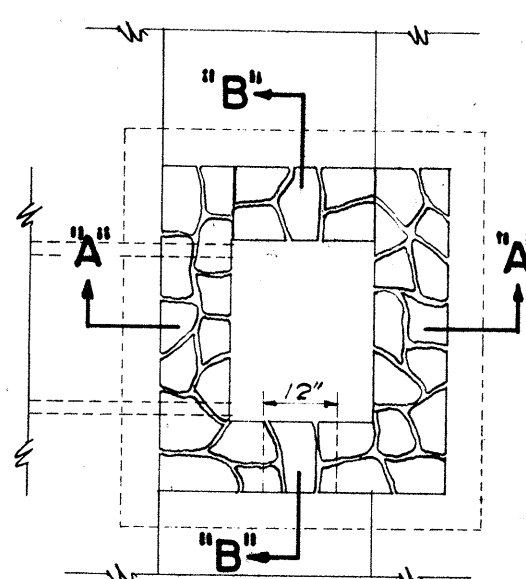
Dimension "X" is assumed as 2'-4" in figuring the above quantities.

DATA - MASONRY HEADWALL				Cast-in-Place Conc. Culvert Cu Yds.	Conc. Pipe Culvert Cu Yds.	Corrugated Pipe Culvert Cu Yds.
D	H	B	L			
18"	3'-6"	1'-0"	6'-0"	0.85	0.05	0.03
24"	4'-0"	2'-0"	7'-6"	1.28	1.45	1.41
30"	4'-6"	2'-3"	9'-0"	1.83	2.06	2.00
36"	5'-0"	2'-6"	10'-6"	2.40	2.84	2.72



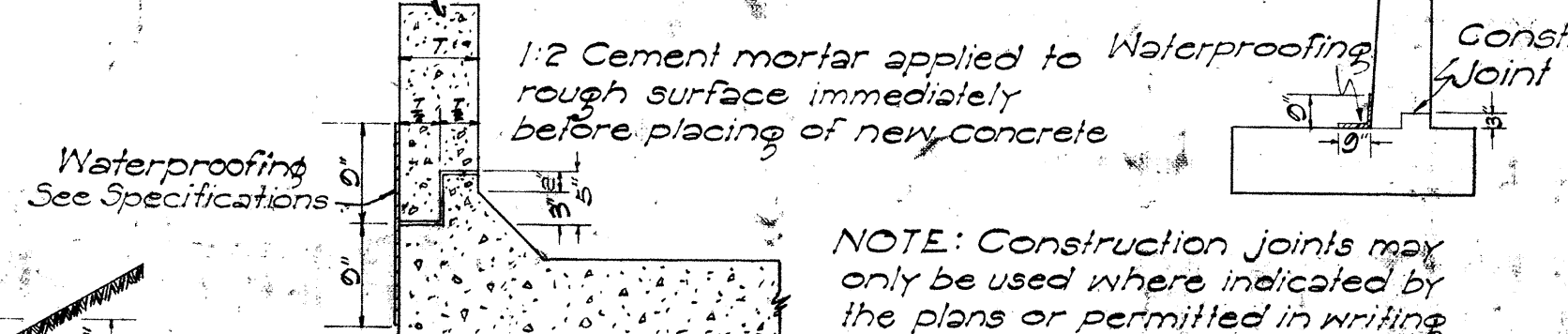
DETAIL OF MASONRY HEADWALL

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



DETAIL OF MASONRY DROP INTAKE

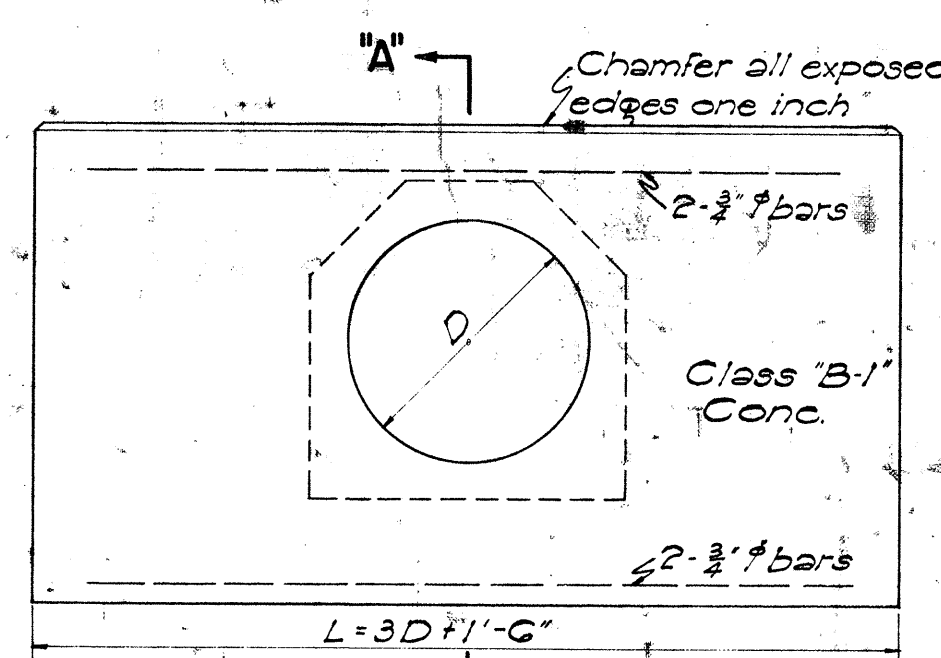
Scale: 3/8" = 1'-0"



CONSTR. JOINT DETAILS

NOTE: Construction joints may only be used where indicated by the plans or permitted in writing by the Engineer.

Note: When subgrade is below top of jacket, it shall be fully compacted to this line and then re-excavated (struck) to proper subgrade. This surface shall be rolled again.



ELEVATION

SECTION "A-A"

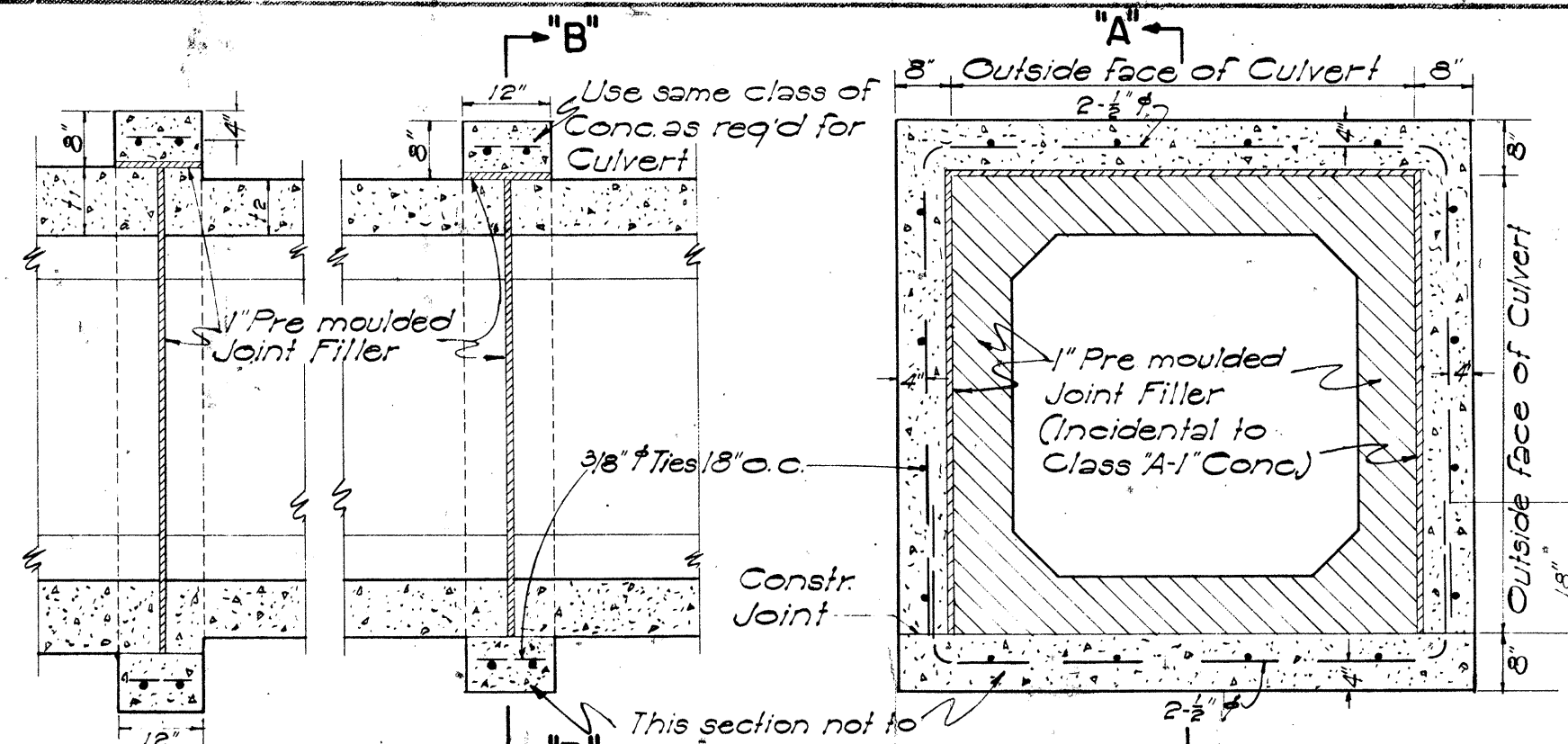
DATA FOR CONC. HEADWALL				Cast-in-Place Conc. Culvert Cu Yds.	Conc. Pipe Culvert Cu Yds.	Steel For One Headwall
D	B	L	H			No. of Bars Size Length Lbs.
18"	1'-0"	6'-0"	4'-0"	0.02	1.00	4 3/4" 5'-6" 33
24"	1'-6"	7'-6"	4'-6"	1.25	1.38	4 3/4" 7'-0" 42
30"	2'-0"	9'-0"	5'-0"	1.05	2.17	4 3/4" 8'-6" 51
36"	2'-6"	10'-6"	5'-6"	2.45	2.74	4 3/4" 10'-0" 60
42"	3'-0"	12'-0"	6'-0"		3.87	4 3/4" 11'-6" 69
48"	3'-6"	13'-6"	6'-6"		4.66	4 3/4" 13'-0" 78

DETAIL OF CONCRETE HEADWALL

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

SECTION "A-A"
CONC. COLLAR FOR CONC. BOX CULVERT

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



REINFORCING BARS

All reinforcing bars for concrete shall be Billet Steel bars, ASTM A15, intermediate grade. Steel shall be made by the open-hearth process. All bars shall be deformed type conforming to ASTM A-305.

SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL

SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL

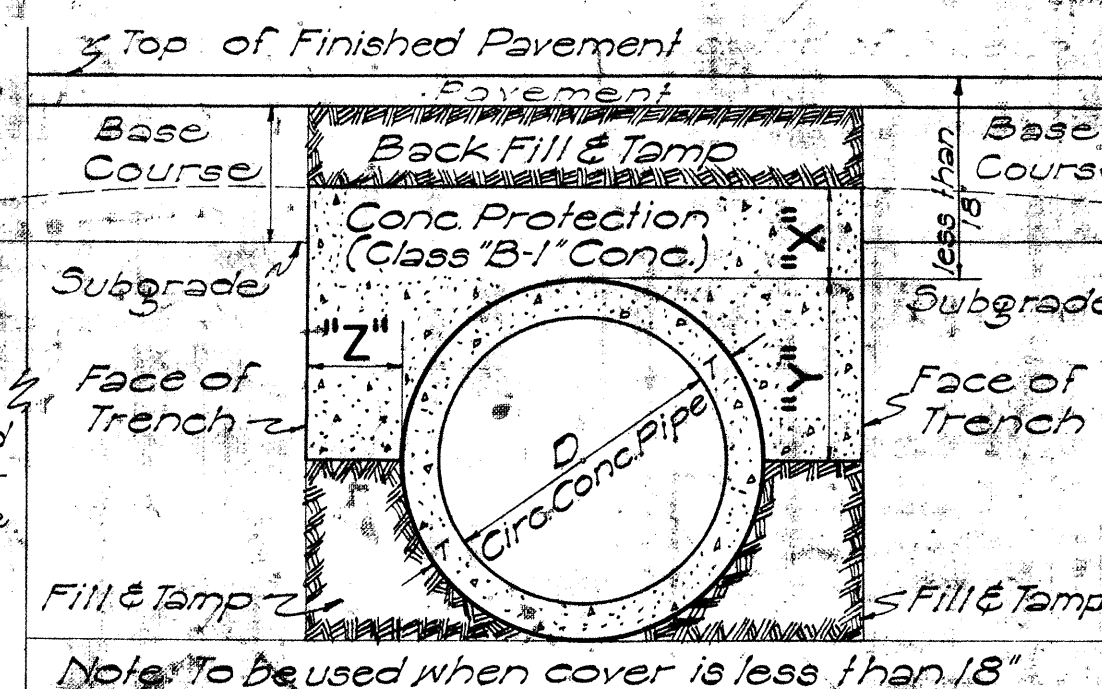
DATA - CONC. DROP INTAKE				Where Variables Equal
D	D	L=D+G	Cu Yds.	
23"	18"	2'-5"	1.41	4'-6"
30"	24"	3'-0"	1.72	5'-0"
37"	30"	3'-7"	2.32	5'-6"
44"	36"	4'-2"	2.73	6'-0"
51"	42"	4'-9"	3.54	6'-6"
58"	48"	5'-4"	4.01	7'-0"

Note: Dimension "X" is assumed as 2'-4" in figuring the above quantities.

Where drainage comes from both sides, this wall to some extent, excavation is shown for opposite wall.

Note: This type of structure shall also be used for the Drop Intakes of Siphons connected with Irrigation Ditches or Flumes with appropriate changes to dimensions. In this case all joints must be made water tight.

Excavate recess in roadway for slope for inlet to dimensions and form designated by Engineer. This is unclassified excavation. Top limit of structure excavation other than at bridge.



DATA FOR CONCRETE PROTECTION OVER CULVERTS			
X	Y	Z	
6" for 18" D		Z must be from pipe to face of trench	
7" " 24" D			
8" " 30" D			
9" " 36" D			
10" " 42" D			
11" " 48" D			
12" " 54" D			

SECT. OF CULVERT WITH CONC. PROTECTION

Scale: 1" = 1'-0"

APPROVED:

DATE: Aug. 25, 1957

STATE HIGHWAY ENGINEER

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

STANDARD DETAILS

DROP INTAKES, RETAINING WALLS,
HEADWALLS, CONSTRUCTION JOINTS

SCALES AS NOTED

SHEET NO. 6 OF 7 SHEETS

4 1/2

S U M M A R Y

F.A.I. Proj. No. I-11-1(5):24, Unit 2

Revised: July 16, 1965
Revised: Jan. 9, 1967

Date: May 1965

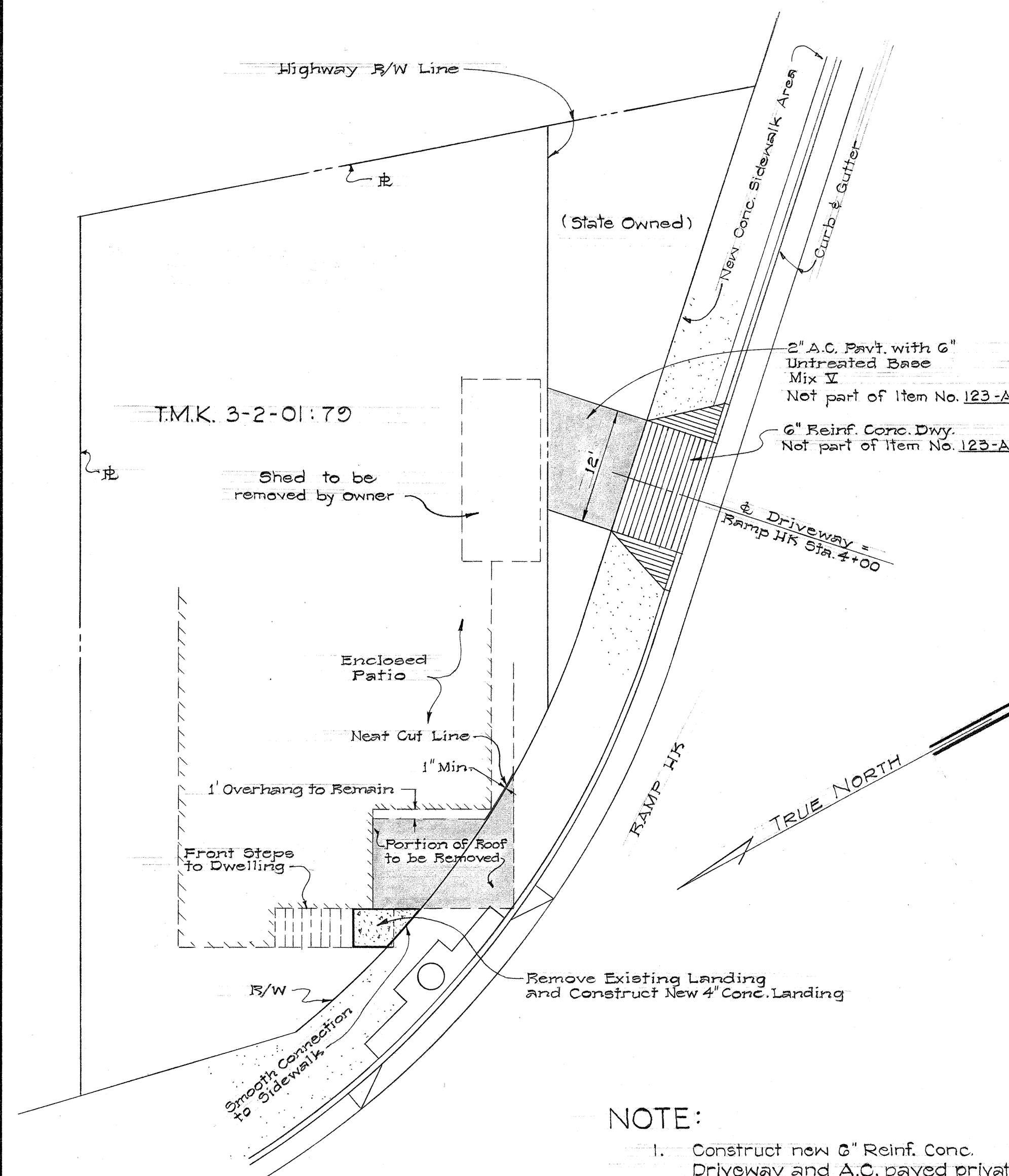
[illegible]

SHEET No. 7 OF 7 SHEETS

C . () . 4 5 A

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
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.	HI-1(5):24 Unit 2	1965	46	276



PLAN
Scale: 1" = 10'

NOTE:

1. Construct new 6" Reinf. Conc. Driveway and A.C. paved private driveway at Ramp HK Sta. 4+00 as shown. Paid for under applicable Contract Items.
2. Portion of existing garage roof to be removed only after the construction of the new Driveway is completed. Paid for under Item No. 123-A.
3. Remove existing conc. landing and construct new 4" Plain conc. landing to shape shown. Paid for under Item No. 123-A.

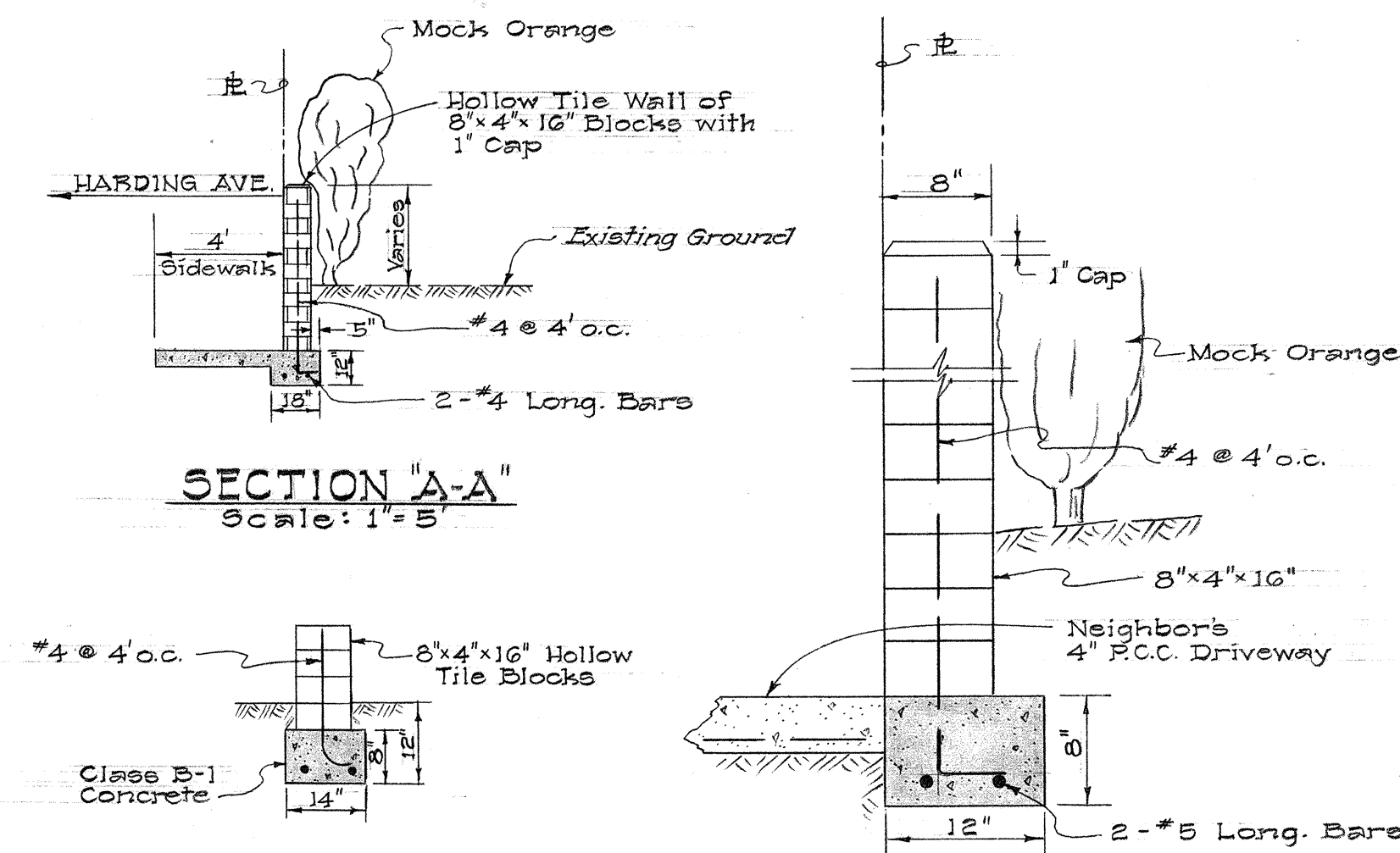
ITEM No. 123-A

REHABILITATION OF LOT

TAX MAP KEY 3-2-01:79

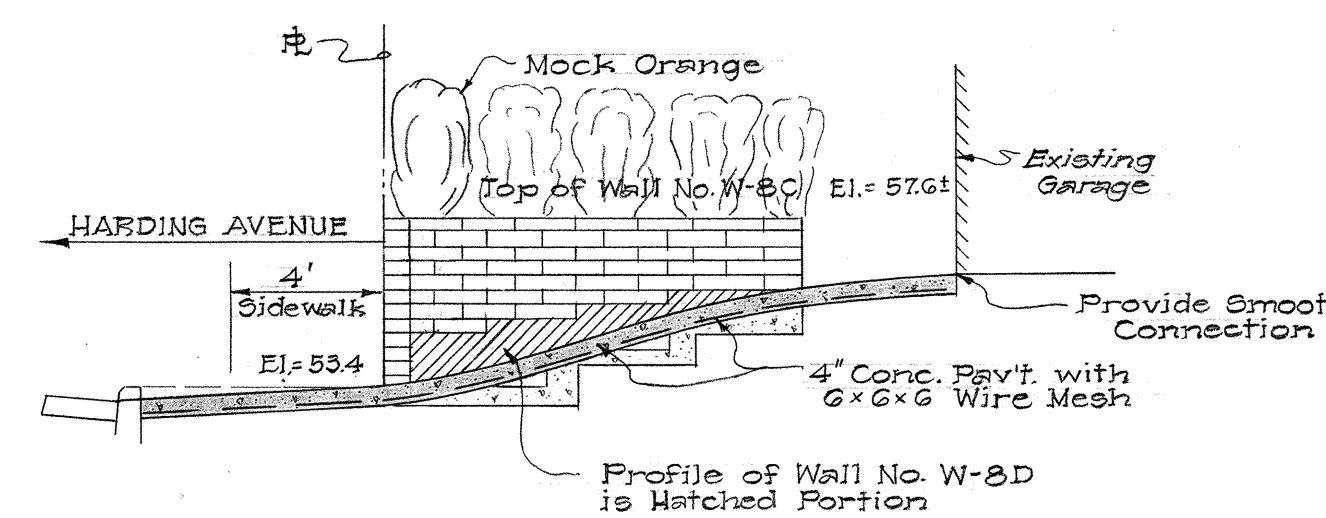
AT 1113 KAPAHULU AVE.

OWNER: CARRIE KEKAHIO



TYPICAL SECTION OF FOOTING DETAIL FOR WALLS W-8C & W-8D
Scale: 1/2" = 1'-0"

TYPICAL SECTION OF FOOTING DETAIL FOR WALL NO. W-8B
Scale: 1" = 1'-0"



DRIVEWAY PROFILE
Scale: 1" = 5'

NOTE:

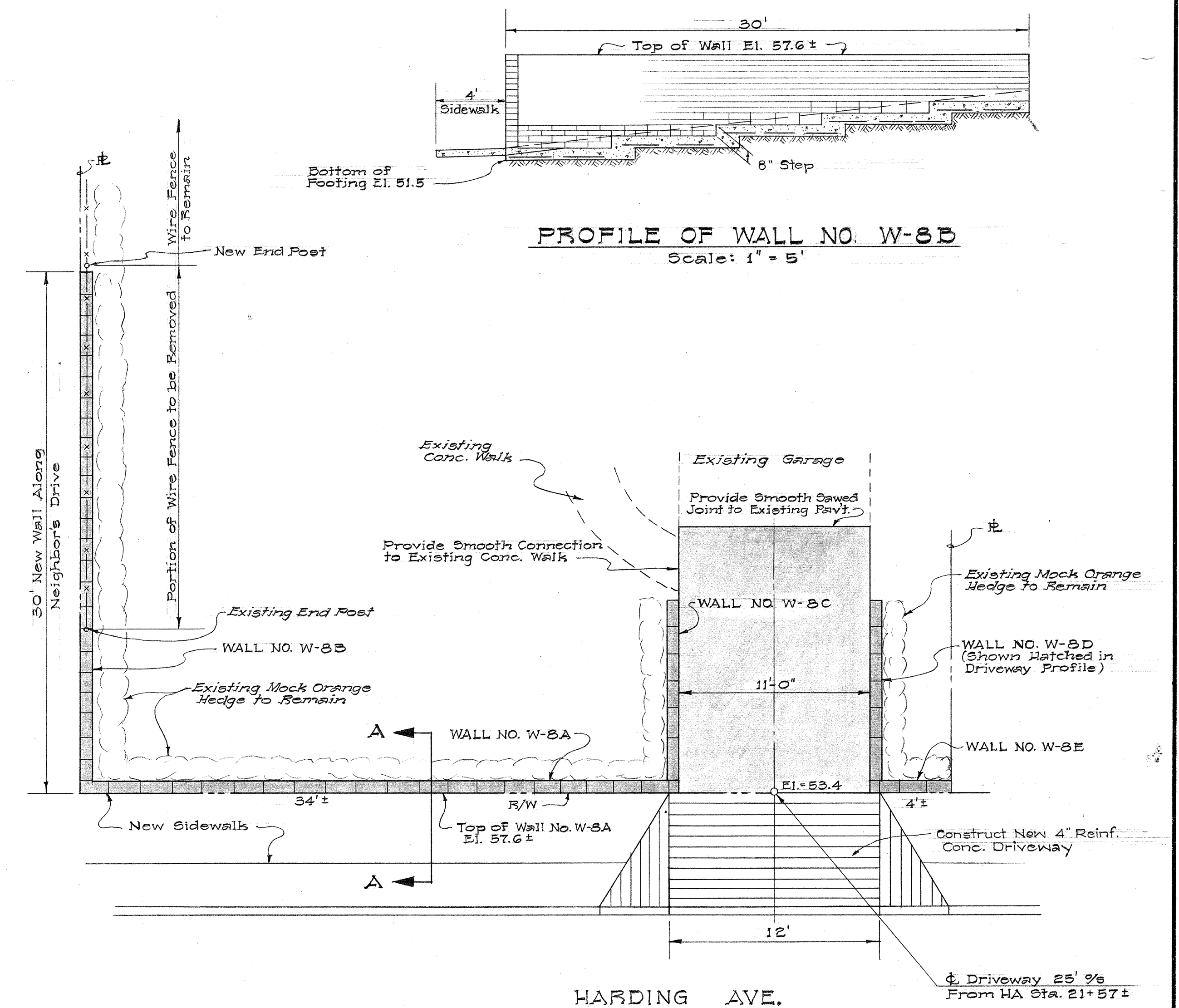
1. Remove existing conc. driveway slab and construct 4" Reinf. Conc. Private Driveway.
2. Remove existing hollow tile wall and construct new Hollow Tile Wall Nos. W-8A, W-8B, W-8C, W-8D, & W-8E.
3. During removal operation of existing hollow tile wall, Contractor shall provide sheathing or devise a suitable method to prevent erosion and damage to the Mock Orange plants. Plants damaged or uprooted during wall construction that do not survive after 2 months after replanting shall be replaced in kind & size by the Contractor at his own expense. Sheathing to be incidental to Contract Item No. 119, Hollow Tile Wall.
4. Provide smooth connection to existing conc. walk.
5. Remove a portion of wire fence & posts where shown and provide new matching end post embedded in conc. (Incidental to Contract Item No. 119, Hollow Tile Wall.)
6. Area within properly damaged during construction shall be restored to near original as possible.
7. All work involved shall be paid for under applicable Contract Items, except where otherwise noted.

REHABILITATION OF LOT

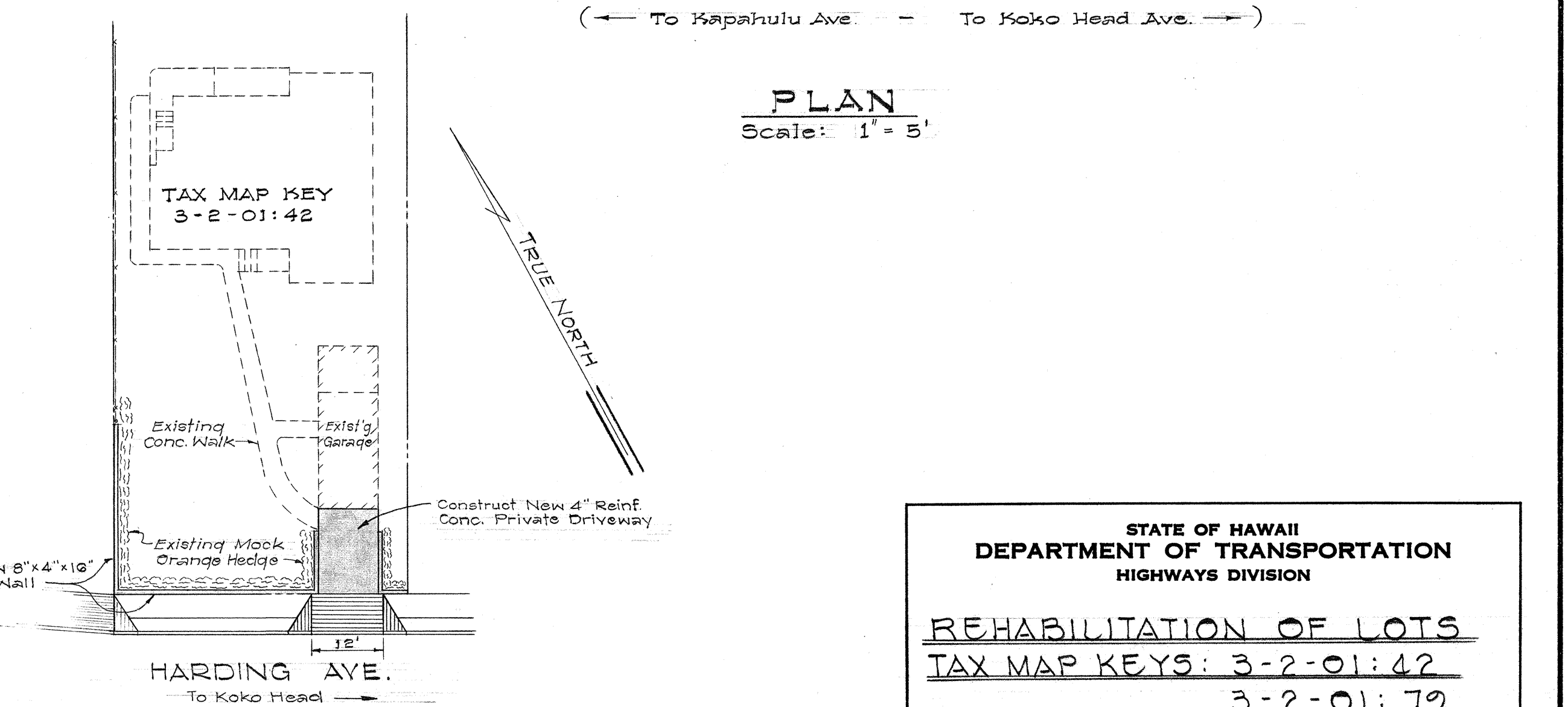
TAX MAP KEY 3-2-01:42

AT 3040 HARDING AVE.

OWNER: MR. & MRS. YOSHIO YANAGIHARA



PROFILE OF WALL NO. W-8B
Scale: 1" = 5'



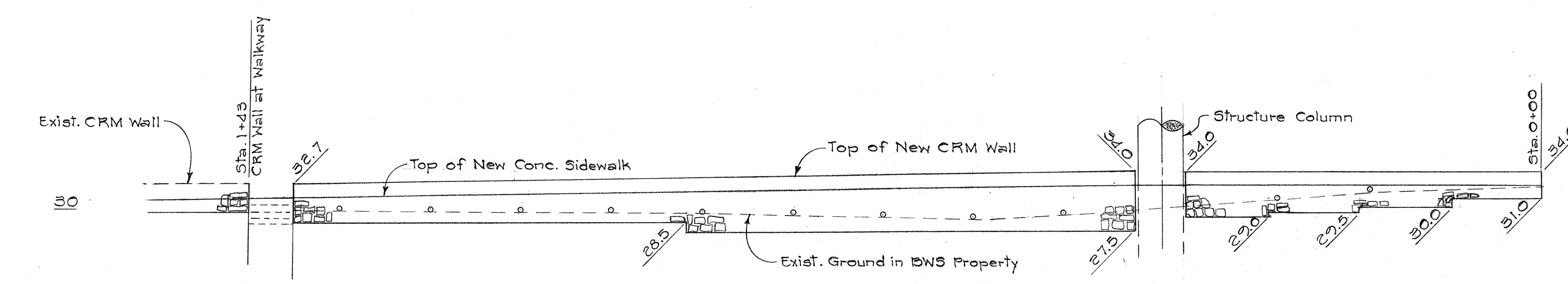
PLOT PLAN
Scale: 1" = 20'

PLAN
Scale: 1" = 5'

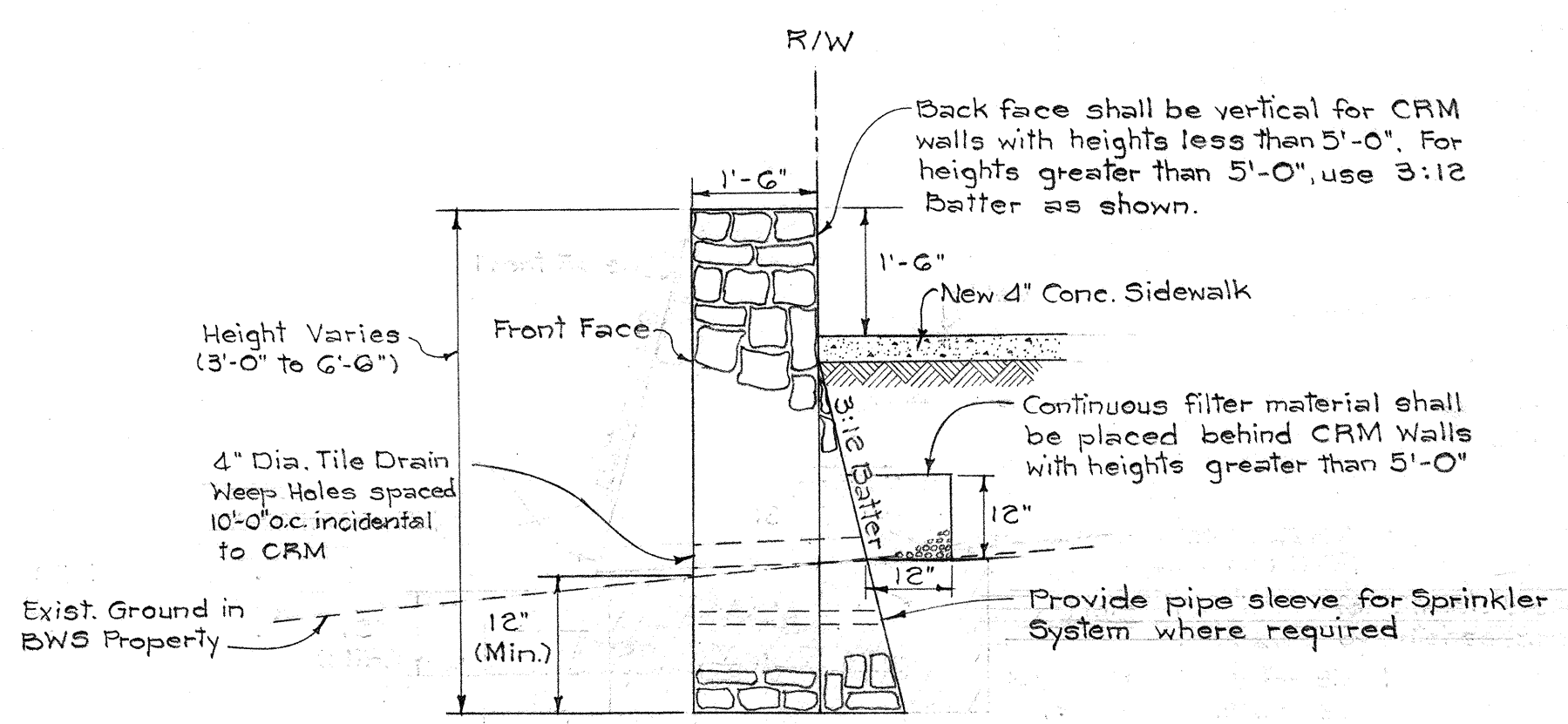
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
REHABILITATION OF LOTS	
TAX MAP KEYS: 3-2-01:42	
3-2-01:79	
F.A.I. Proj. No. I-HI-1(5):24 Unit 2	
Scale: As Shown	Date: May, 1965.
SHEET No. 1 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-1(5)24 Unit 2	1965	47	276

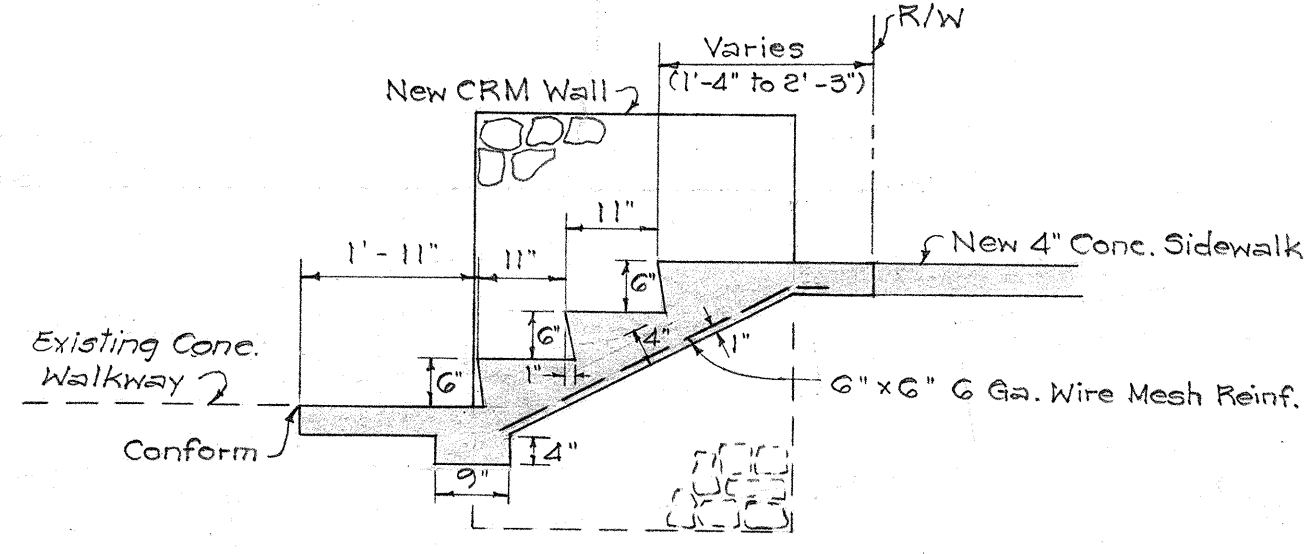
See "INSET A" for continuation and new work involving existing 3" line



ELEVATION VIEW OF CRM WALL No. BW-1 AT B.W.S. PUMPING STATION
(Viewed from Back Face)
Scale: 1" = 10'-0"



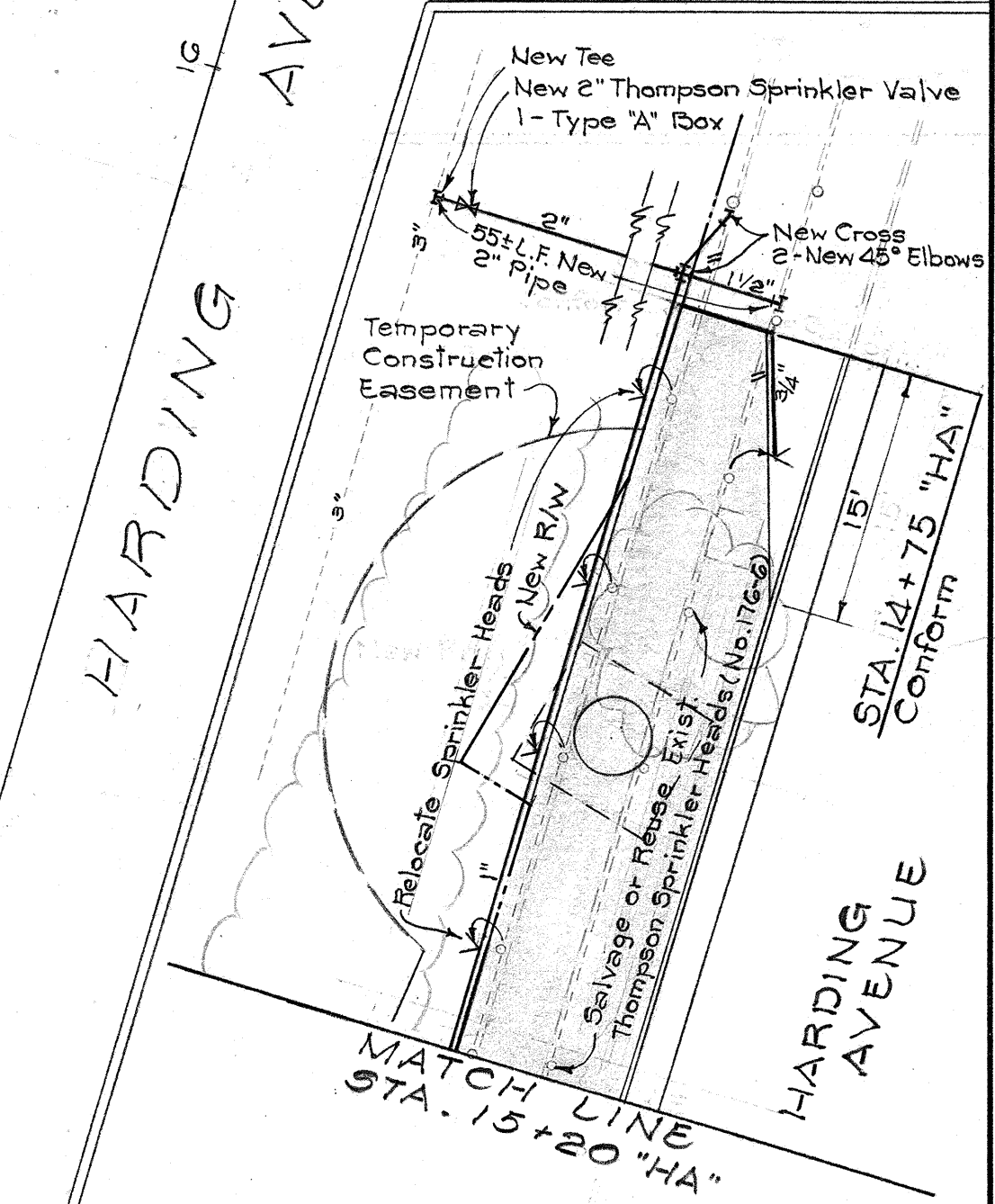
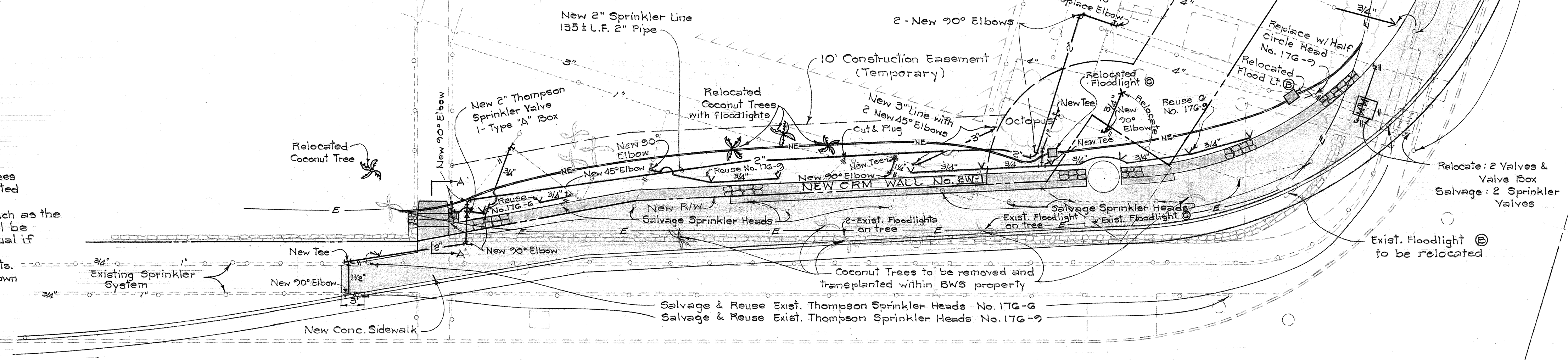
SECTION OF CRM WALL
Scale: 1/2" = 1'-0"



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

SCOPE OF WORK

- The work of rehabilitating the B.W.S. Kapaehulu Pumping Station shall consist of the following:
1. Construct new CRM Wall No. BW-1 and concrete steps along new R/W. Materials and construction shall match existing CRM Wall.
 2. Rehabilitate the landscaping including the following:
 - (a) Remove and transplant coconut trees as shown on the plans or as directed by the Engineer.
 - (b) All existing sodding and plants (such as the honeysuckle and ficus repens) shall be restored to original condition or equal if disturbed by the construction of walls, footings and utility adjustments.
 3. Rehabilitate the Sprinkler System as shown on the plans, including the following:
 - (a) Relocate existing valve box in new sidewalk area.
 - (b) Salvaged sprinkler heads and valves; if not required for rehabilitation shall be returned to Board of Water Supply.
 4. Relocate Floodlights as shown on the plans using new conduit and wiring for the electrical circuit. Electrical cables shall be No. 12 AWG and installed in 3/4" conduits conforming to Article 346 of the National Electric Code.
 5. Remove all debris resulting from this item of work at end of each work day. No burning of rubbish shall be allowed on job site.
 6. All work involved shall be paid for under Item No. 123-B.



INSET A

ITEM No. 123 B

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REHABILITATION OF LOT
TAX KEY: 2-7-30:12 (B.W.S.)
KAPAEHULU PUMPING STATION

F.A.I. Proj. No. I-41-1(5):24, Unit 2

Scale: As Shown Date: May, 1964.

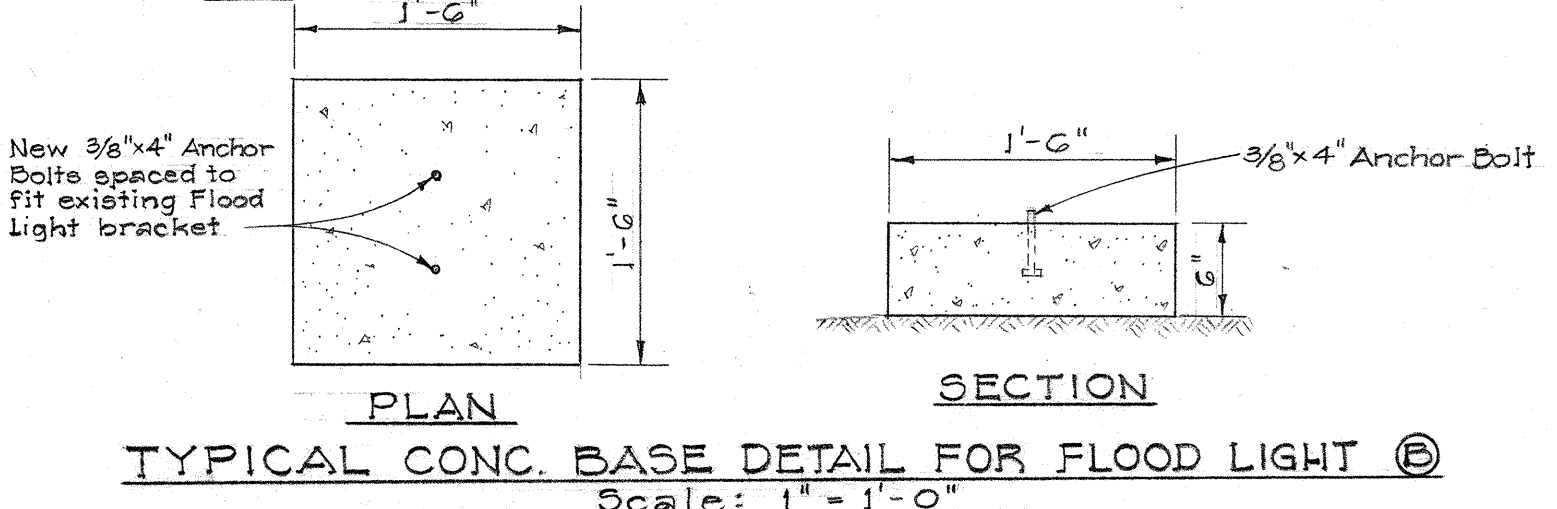
SHEET No. 2 OF 7 SHEETS

SPRINKLER LEGEND

- Existing Lines
- New Lines
- #- Cut Existing Lines
- o Existing Sprinkler Head
- o Half-Circle Sprinkler Head
- x Full Circle Sprinkler Head

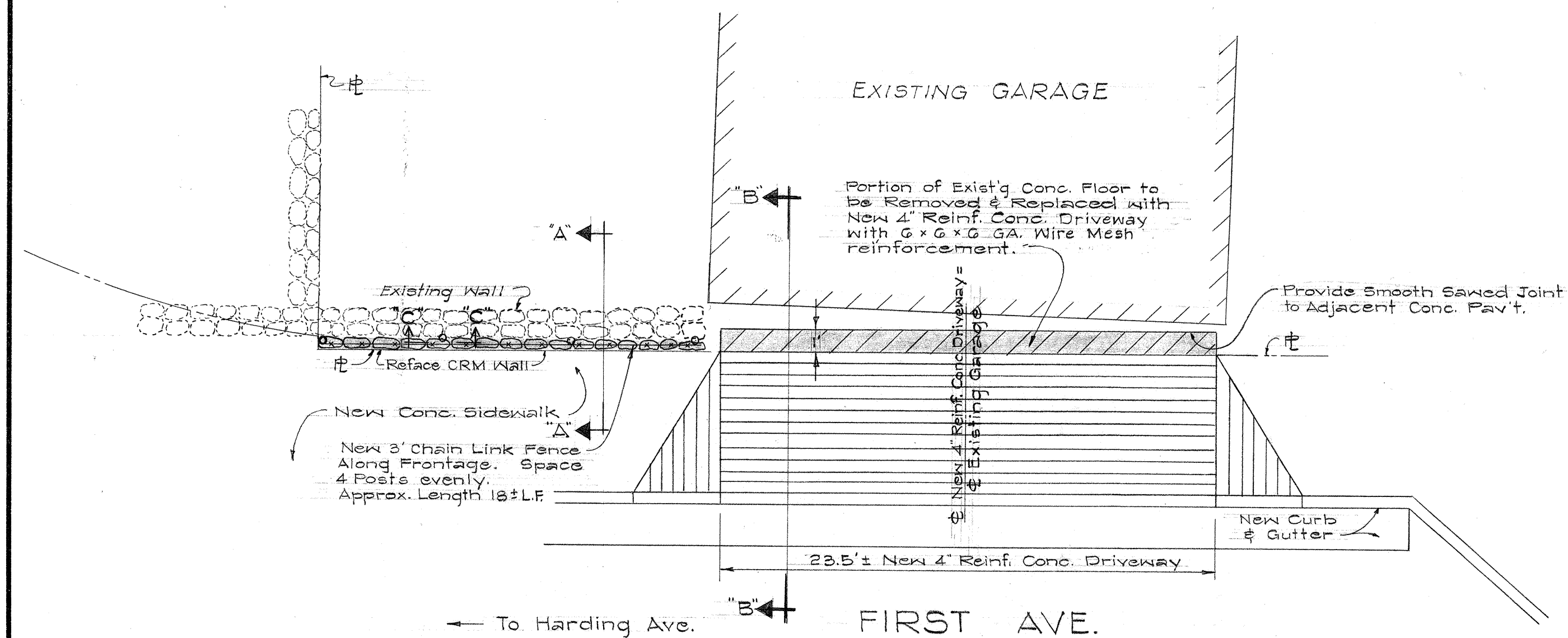
ELECTRICAL LEGEND

- Existing electric conduits for floodlights
- New electric conduits for floodlights

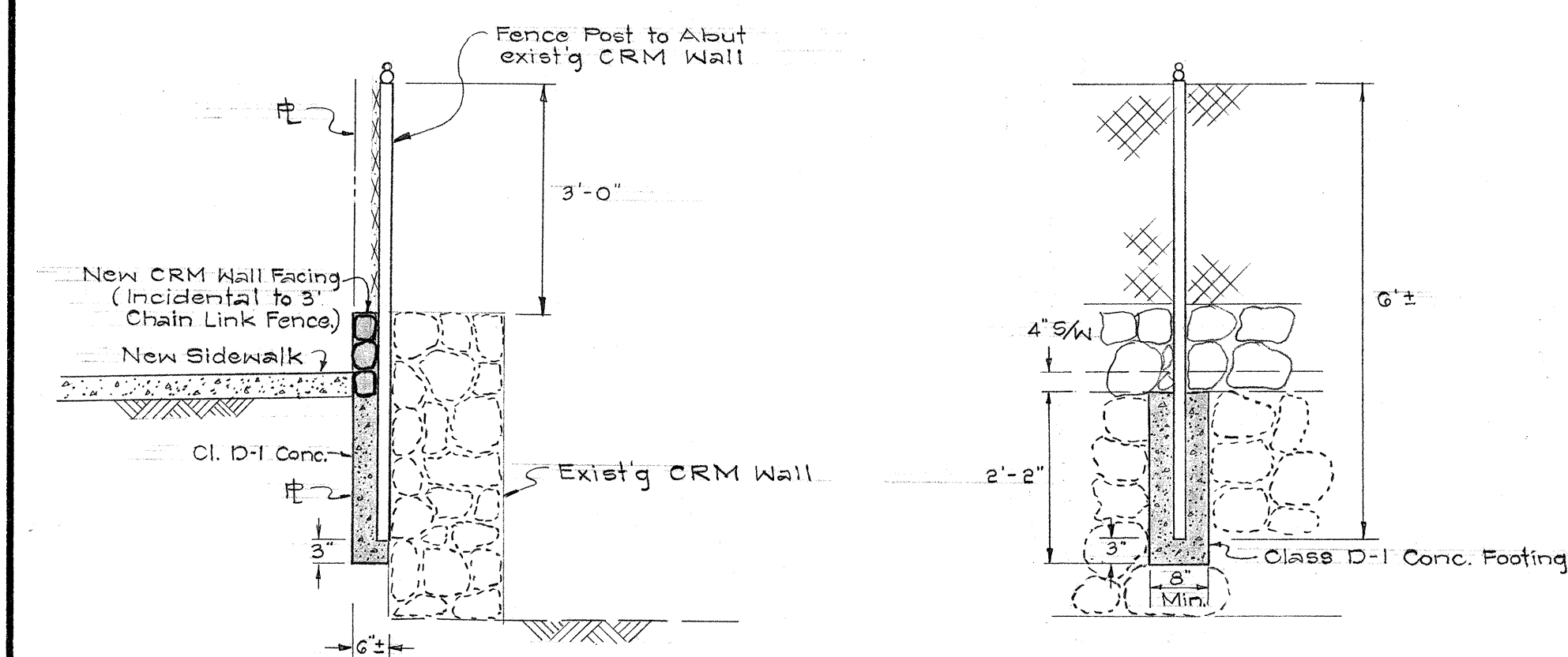


TYPICAL CONC. BASE DETAIL FOR FLOOD LIGHT
Scale: 1" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H1-1(5)-24	1965	48	276

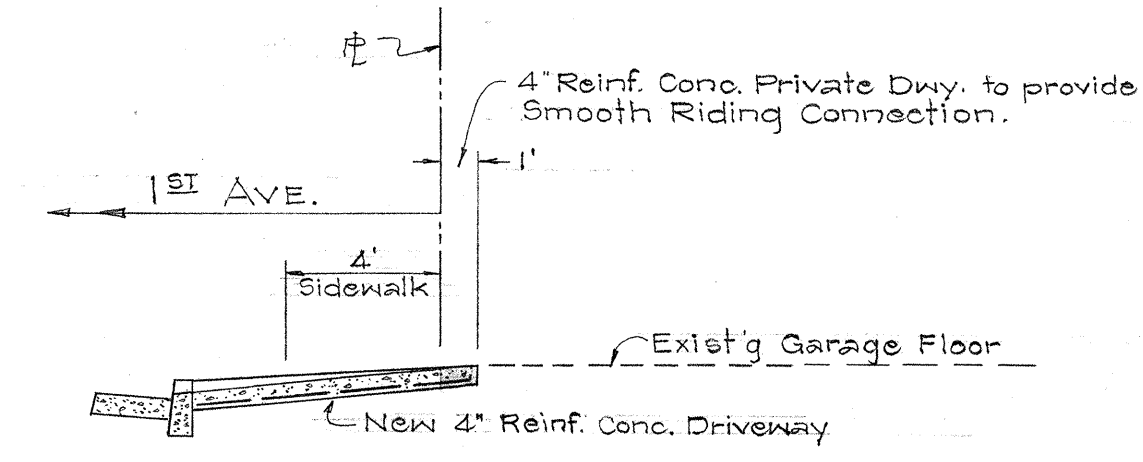


PLAN
Scale: 1" = 5'



SECTION "A-A"

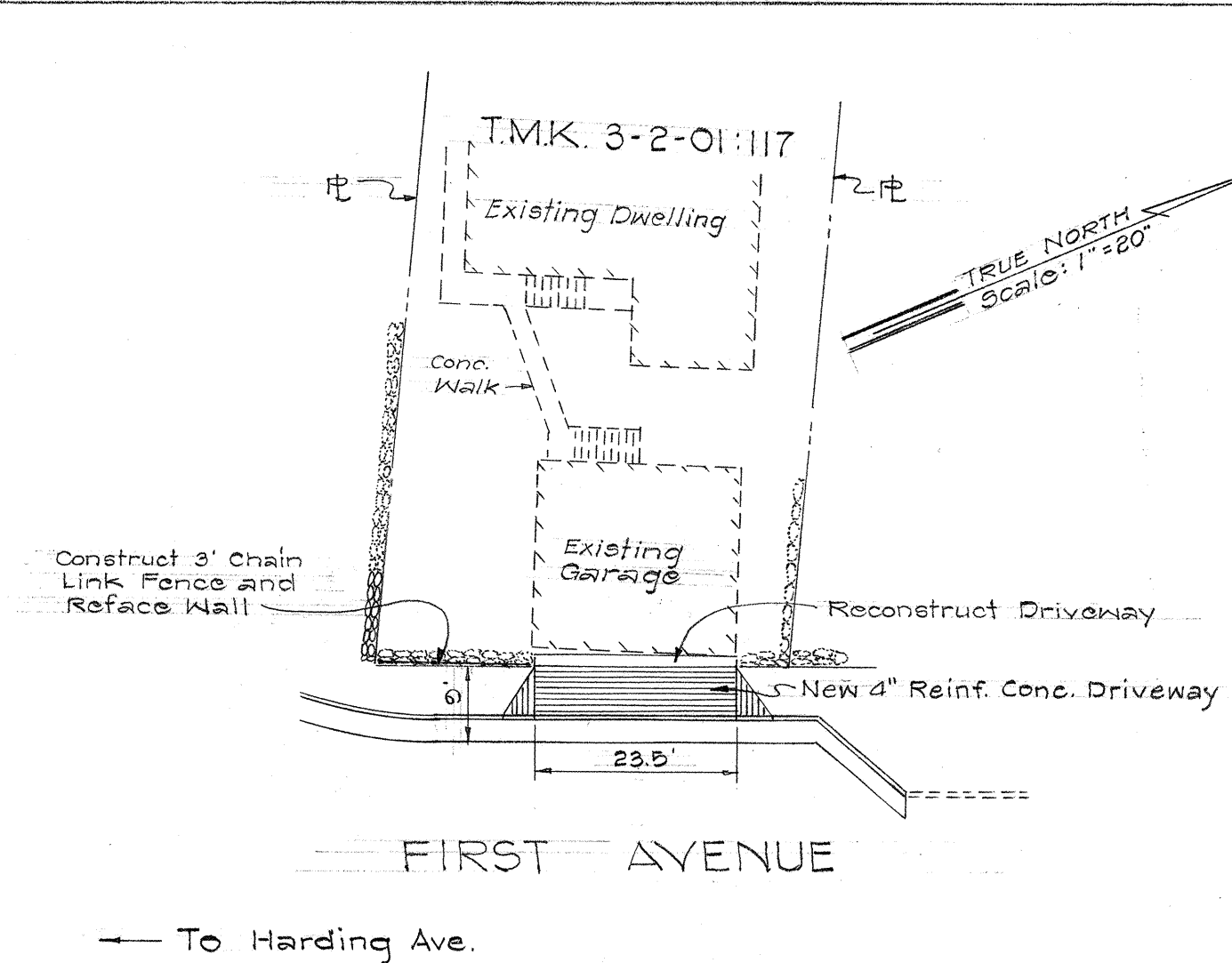
SECTION "C-C"



SECTION "B-B"

Scale: 1" = 5'

DETAIL OF 3' CHAIN LINK FENCE FOOTING
Scale: 1/2" = 1'-0"

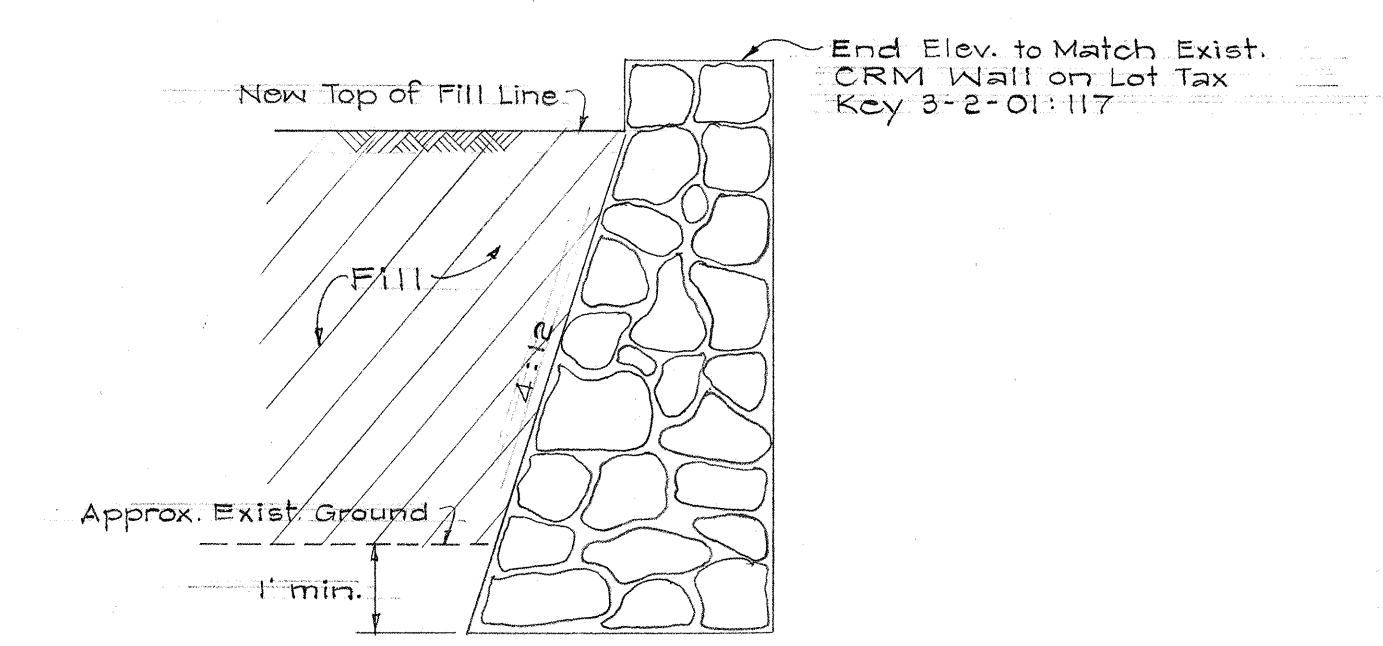


PLOT PLAN

NOTES

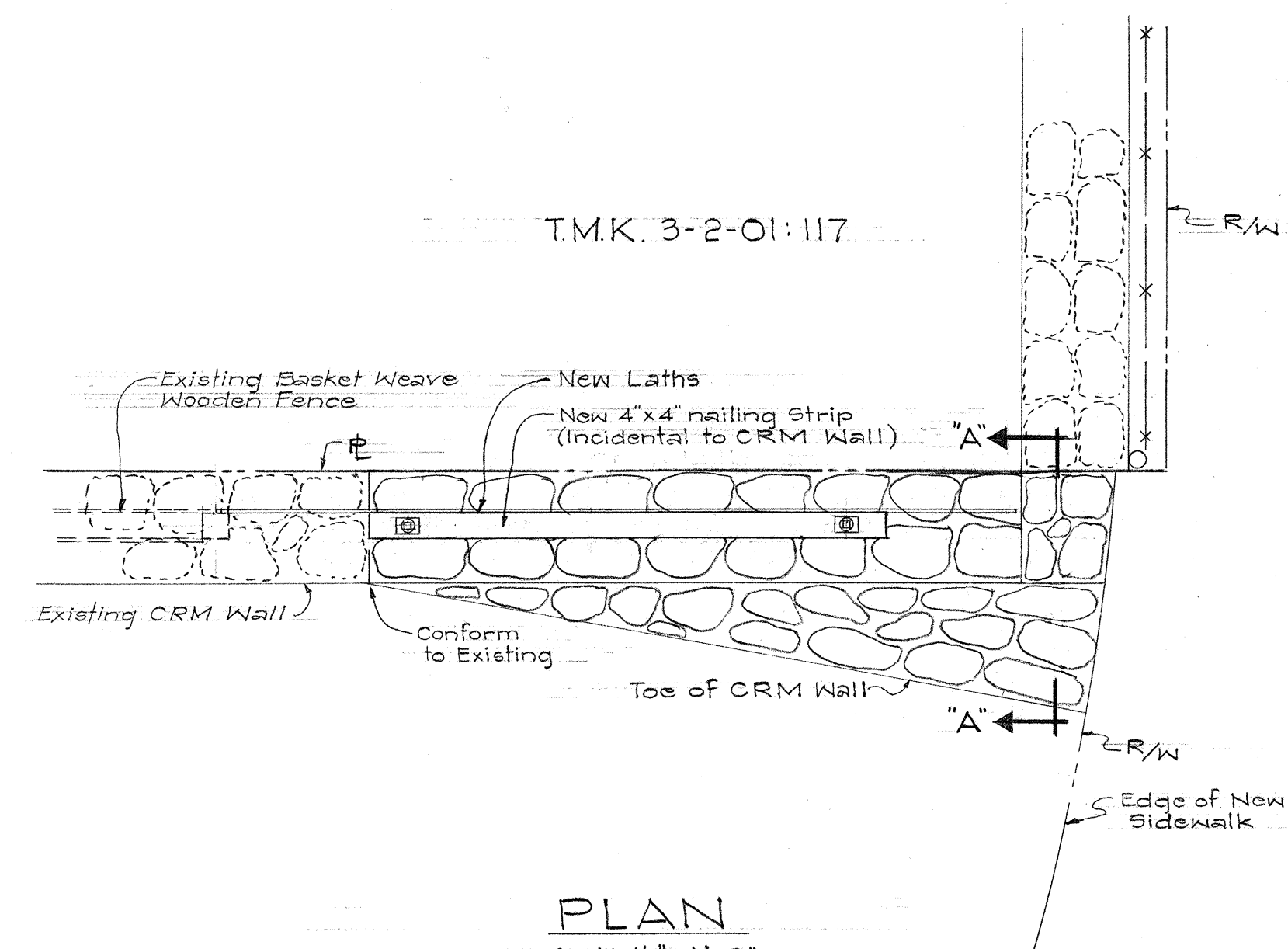
1. Remove shaded portion of existing private driveway and reconstruct new 4" reinf. conc. private driveway to conform to new driveway and existing conc. garage floor. Removal of existing driveway shall be incidental to new driveway.
2. Remove existing Mock Orange hedge along front property line south of garage.
3. Construct 3' Chain Link Fence at location shown and in accordance to Section 88 of The Standard Specifications.
4. Reface CRM Wall along front property line south of garage.
5. Provide barricade after working hours at area where Mock Orange hedge has been removed until new 3' Chain Link Fence is erected.
6. All work involved shall be paid for separately under applicable Contract Items unless otherwise noted.

REHABILITATION OF LOT
TAX MAP KEY 3-2-01:117
AT 1112 FIRST AVE.
OWNERS: MR. & MRS. SHIGERU FURUTA



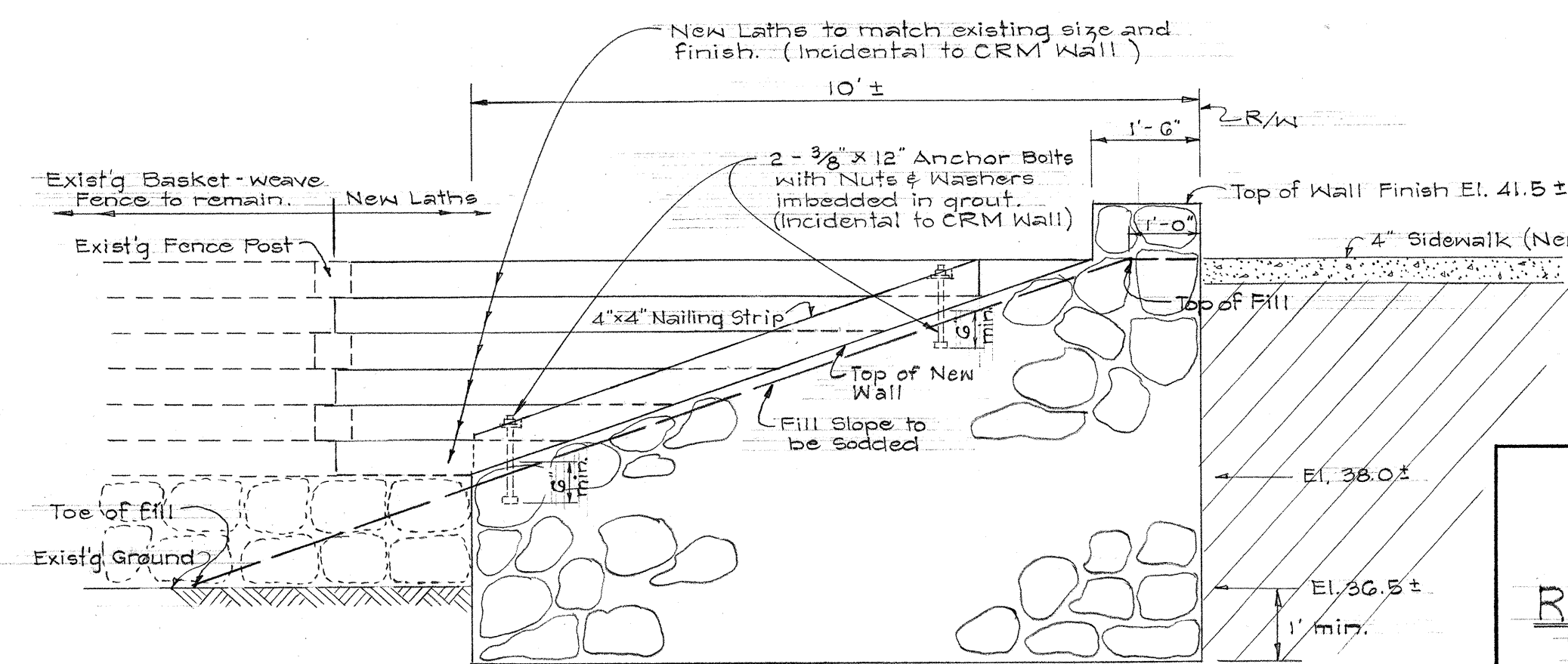
SECTION "A-A"

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



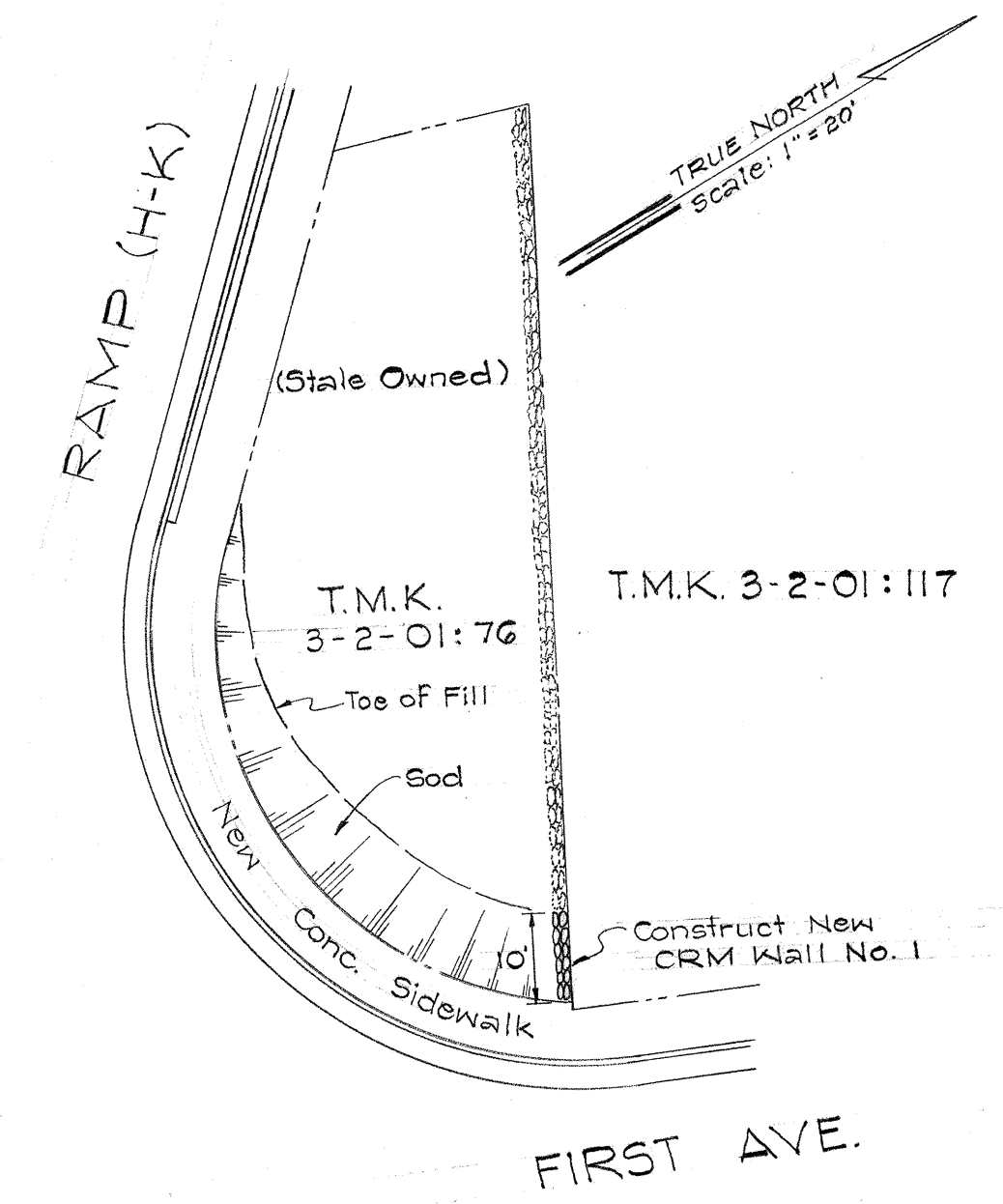
PLAN

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



ELEVATION

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



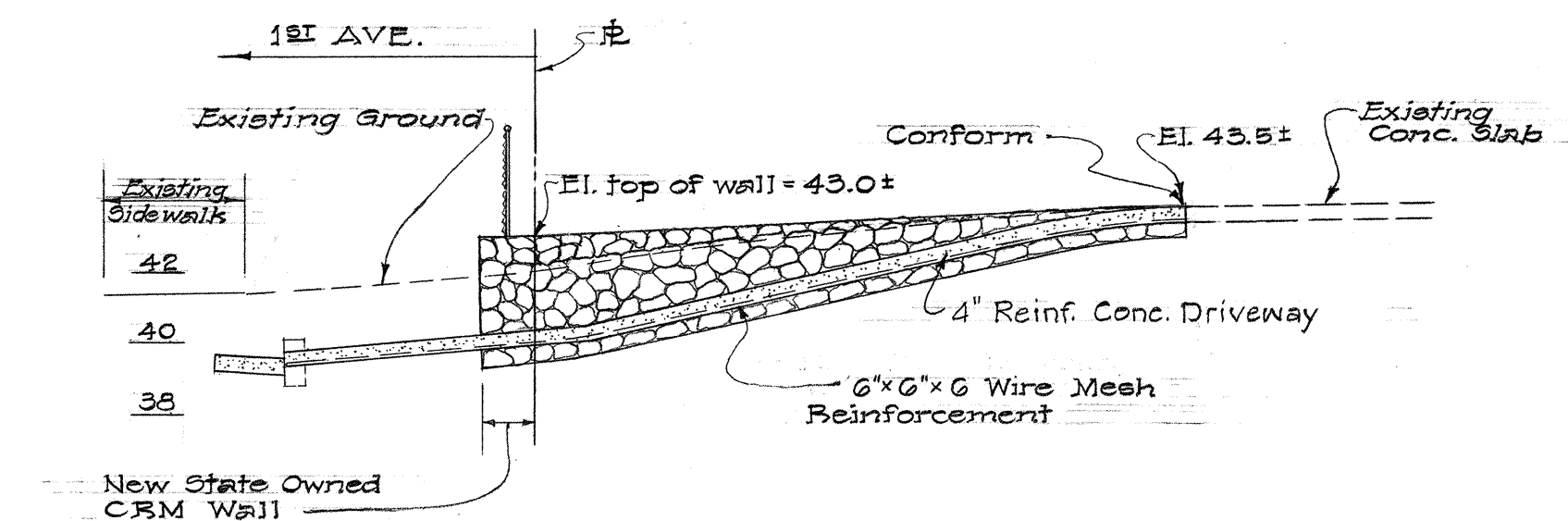
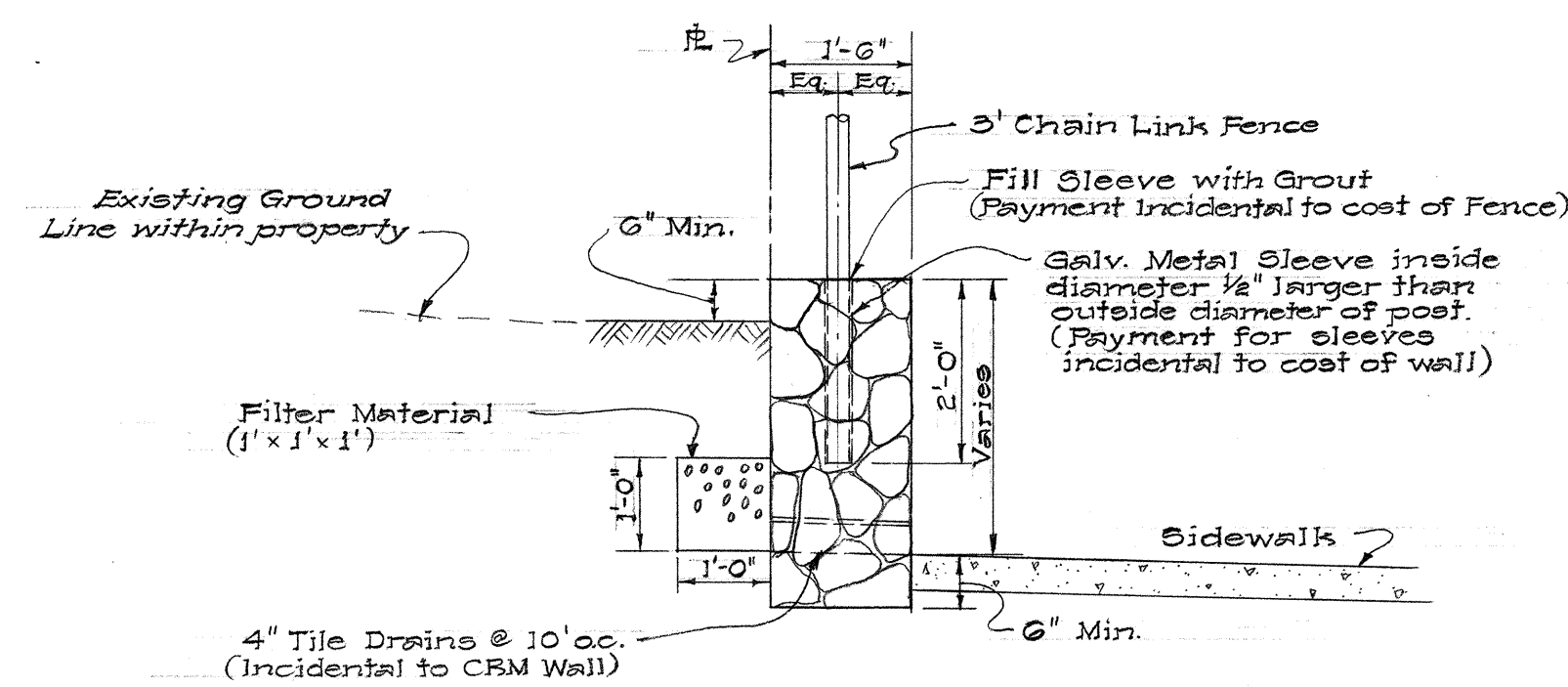
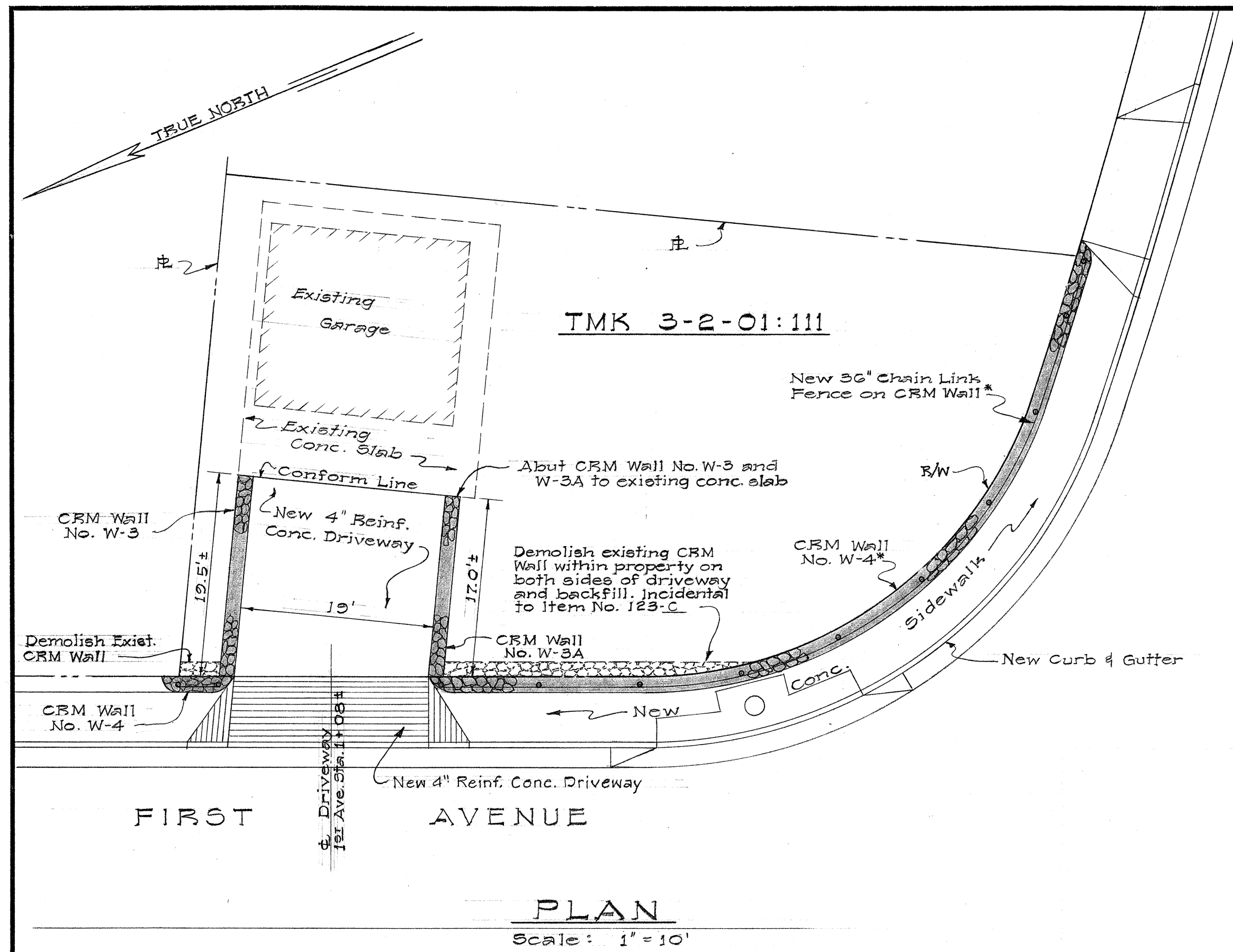
NOTES

1. Construct CRM Wall at location shown.
2. New lumber shall be of construction grade and treated with 2 coats of matching paint.
3. Provide temporary barricade along sidewalk until fill is completed.
4. Sod fill slope.
5. All work involved shall be paid for separately under applicable Contract Items unless otherwise noted.

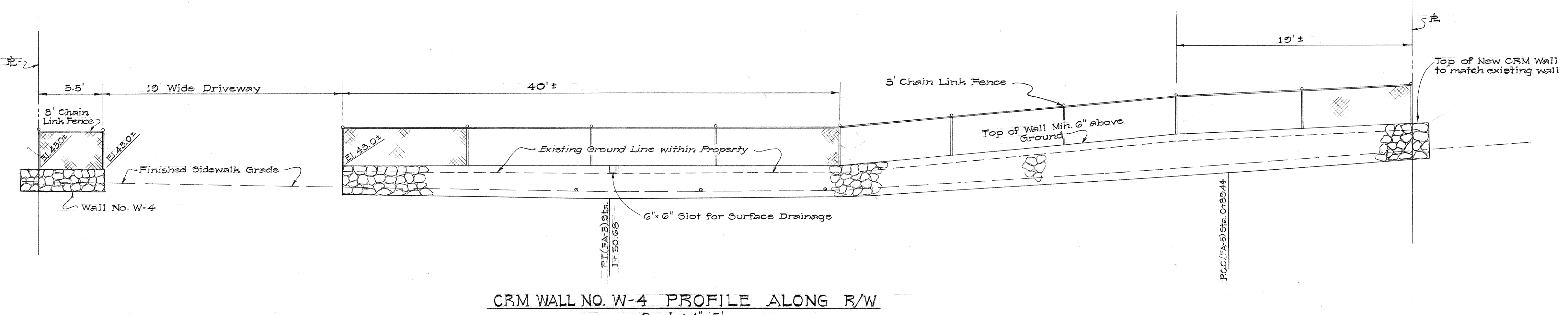
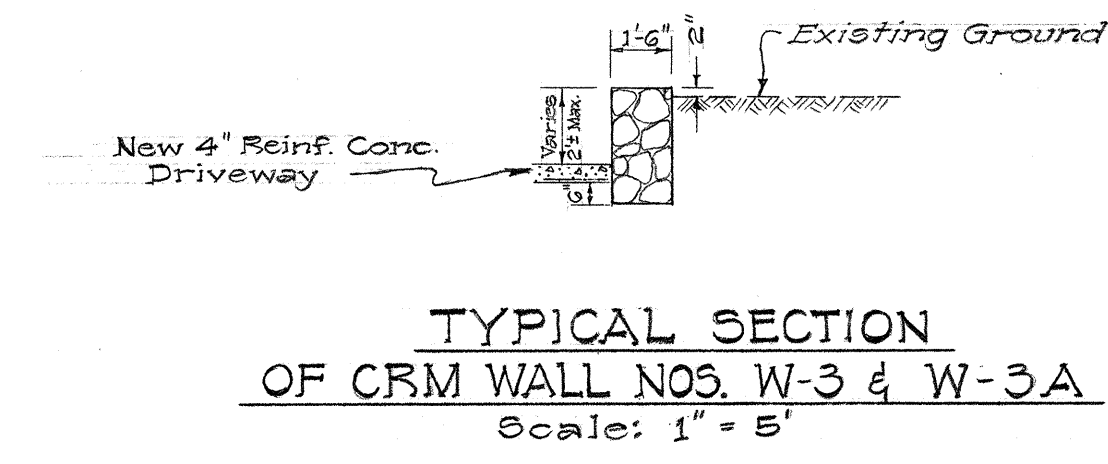
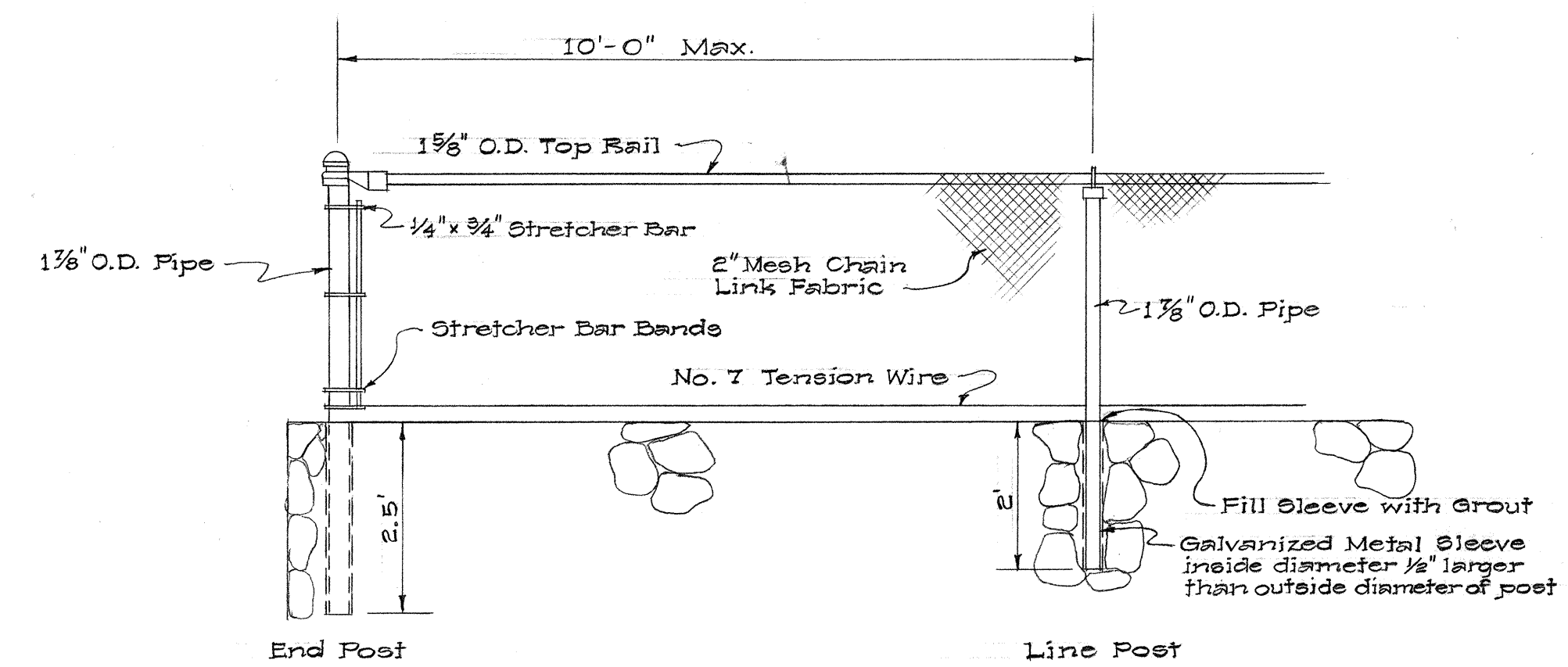
CONSTRUCTION OF
CRM WALL No. 1 WITHIN R/W
AT CORNER OF FIRST AVE. & RAMP (H-K)
OWNER: STATE OF HAWAII

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
REHABILITATION OF LOT
TAX MAP KEY: 3-2-01:117
CONSTRUCTION OF CRM WALL
No. 1 WITHIN R/W
F.A.I. Proj. No. I-H1-1(5)-24, Unit 2
Scale: As Shown Date: May, 1964
SHEET No. 3 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H1-1(5)-24 Unit 2	1965	49	276



- NOTES FOR ITEM NO. 123 C
- Construct CRM Wall Nos. W-3 & W-3A
 - Construct new 4" Reinf. Conc. Driveway.
 - Owner shall be provided access to garage during construction and shall be inconvenienced as little as possible
 - Void area resulting from the demolishing of existing CRM wall shall be backfilled with a top 4" layer of Topsoil and sodded to match surrounding area.
 - Construction of New CRM Wall No. W-4 & 36" Chain Link Fence is not a part of Item 123 C and shall be paid for under the respective Contract items involved.



ITEM No 123-C

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REHABILITATION OF LOT
TAX KEY 3-2-01-111 AND
CONSTRUCTION OF CRM WALL
NO. W-4 WITH 36" CHAIN LINK
FENCE ALONG PROPERTY LINE
F.A.I. Proj. No. I-H1-1(5)-24, Unit 2

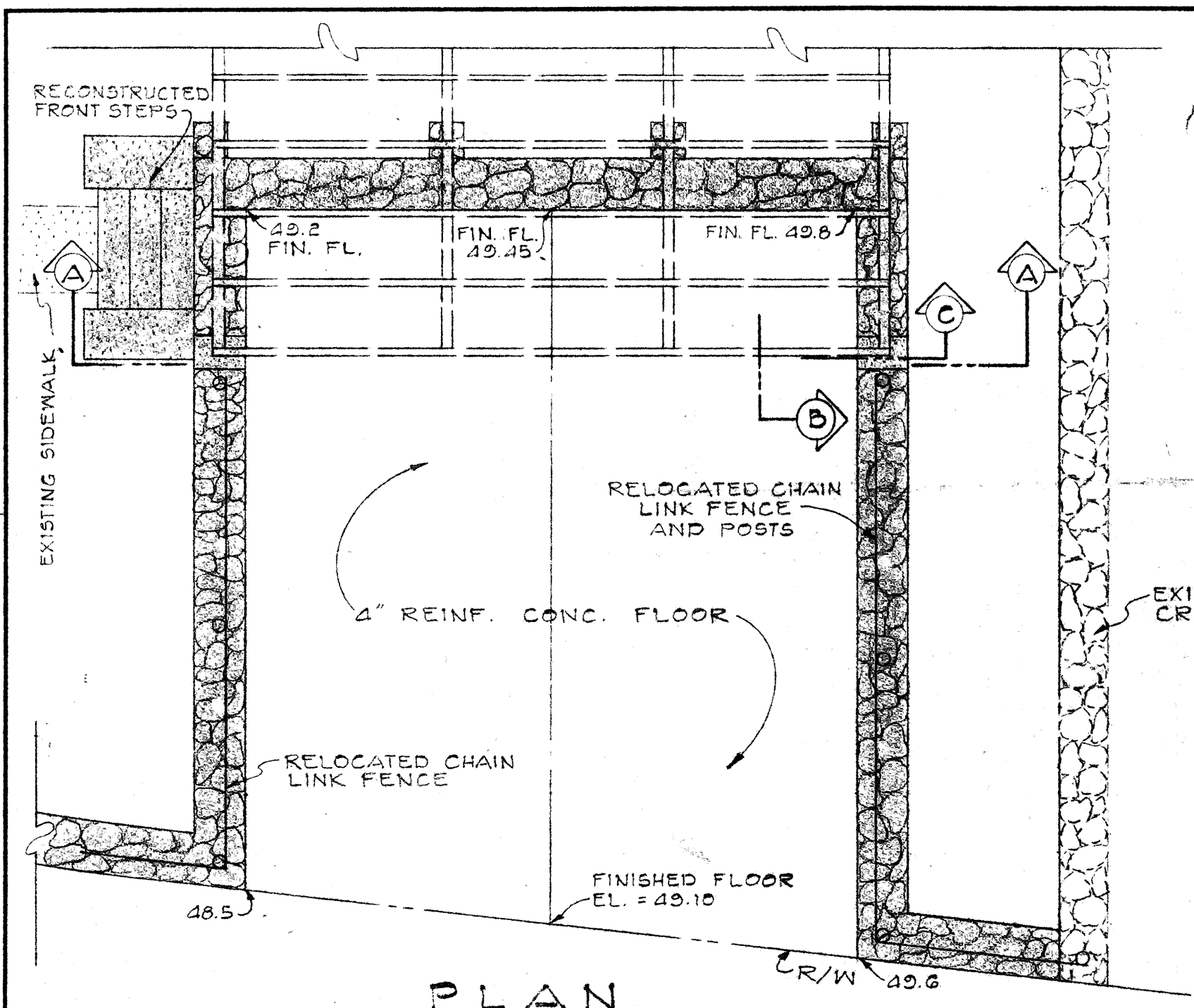
Scale: As Shown Date: May, 1965

SHEET No. 4 OF 7 SHEETS

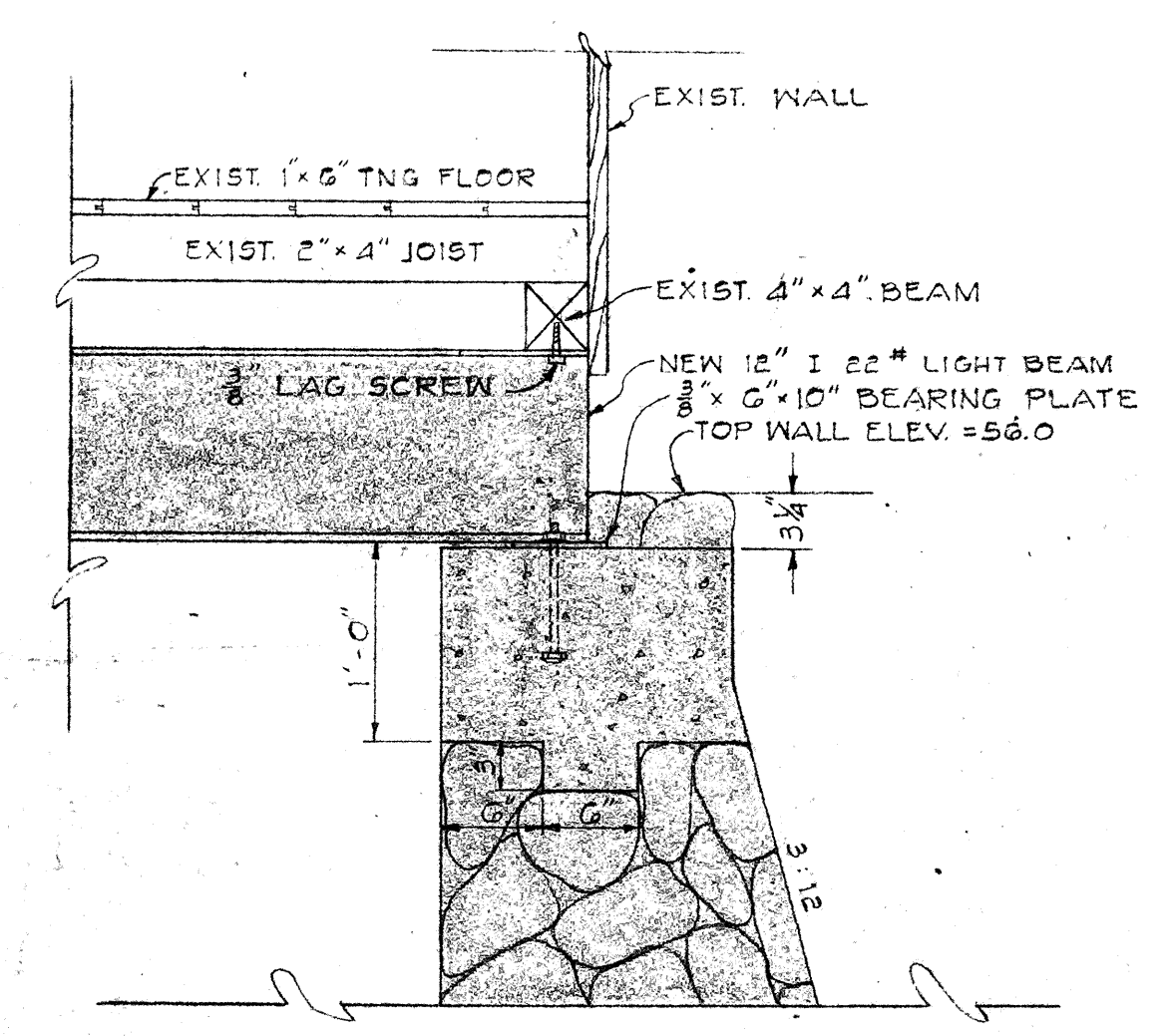
Revised: July 22, 1966

SCOPE OF WORK

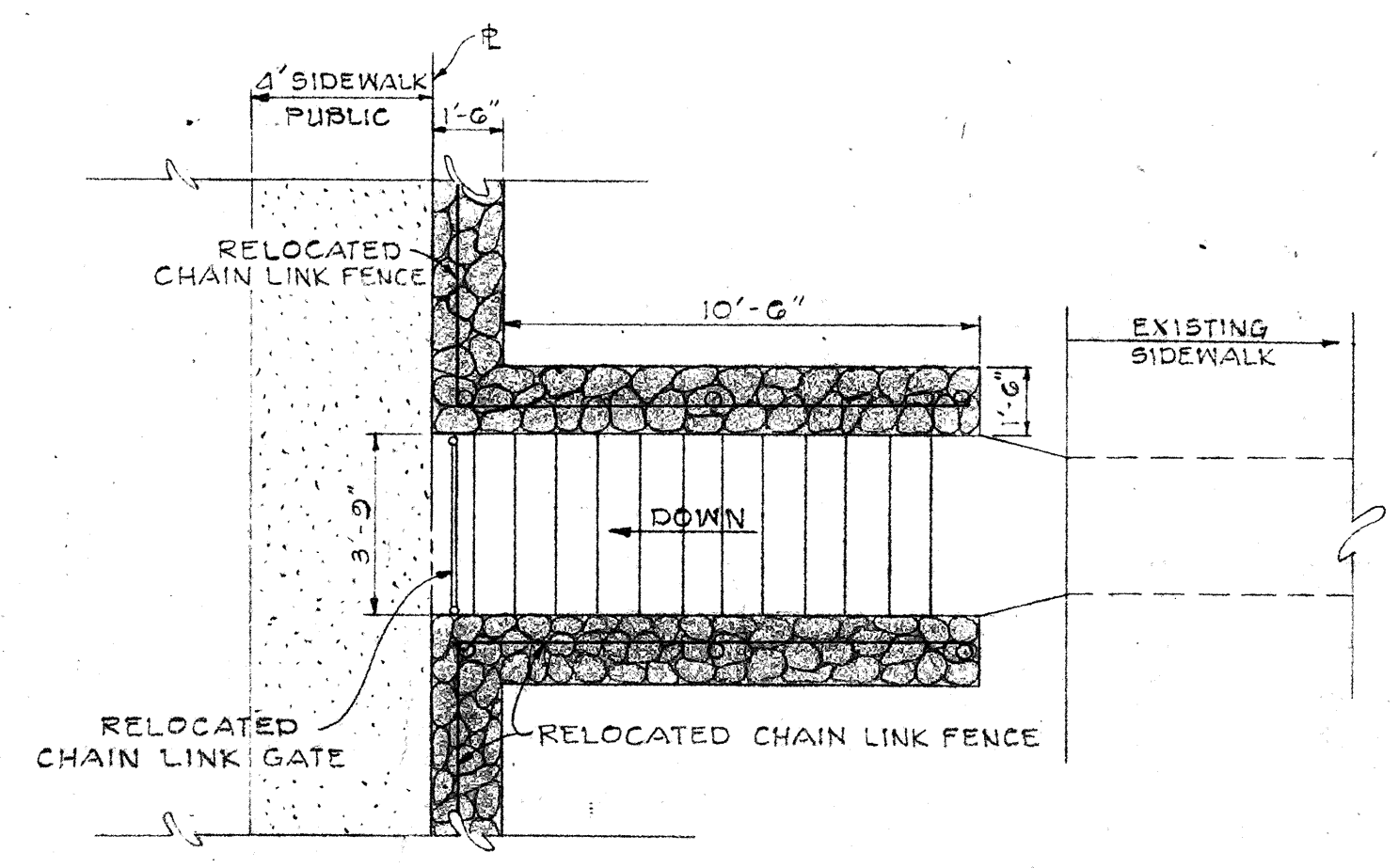
1. REMOVE EXISTING HOLLOW TILE RETAINING WALL IN EXISTING PARKING AREA, SALVAGING CHAIN LINK FENCE AND GATE FOR REUSE.
2. SERVICES TO EXISTING UTILITIES SHALL BE MAINTAINED DURING REHABILITATION.
3. TEMPORARY STEPS SHALL BE PROVIDED TO PROPERTY AND DWELLING DURING CONSTRUCTION.
4. ANY EXISTING UTILITY ENCOUNTERED IN THE WORK AREA AND REQUIRING RELOCATION SHALL BE ADJUSTED BY THE CONTRACTOR.
5. I-BEAM, BEARING PLATES AND WELDED JOINTS TO RECEIVE ONE SHOP COAT RED LEAD PAINT, ONE FIELD COAT RED LEAD PAINT AND TWO FIELD COATS FINISH PAINT.
6. ALL CONCRETE SHALL BE CLASS A-1.
7. WORK AREA SHALL BE CLEANED OF DEBRIS AND LEFT IN AN ORDERLY MANNER AFTER EACH WORK DAY.
8. RESOD ALL EXISTING SODDED AREA AFFECTED BY REHABILITATION.
9. ALL WORK INVOLVED WITHIN PROPERTY SHALL BE PAID FOR UNDER ITEM No. 123-E.



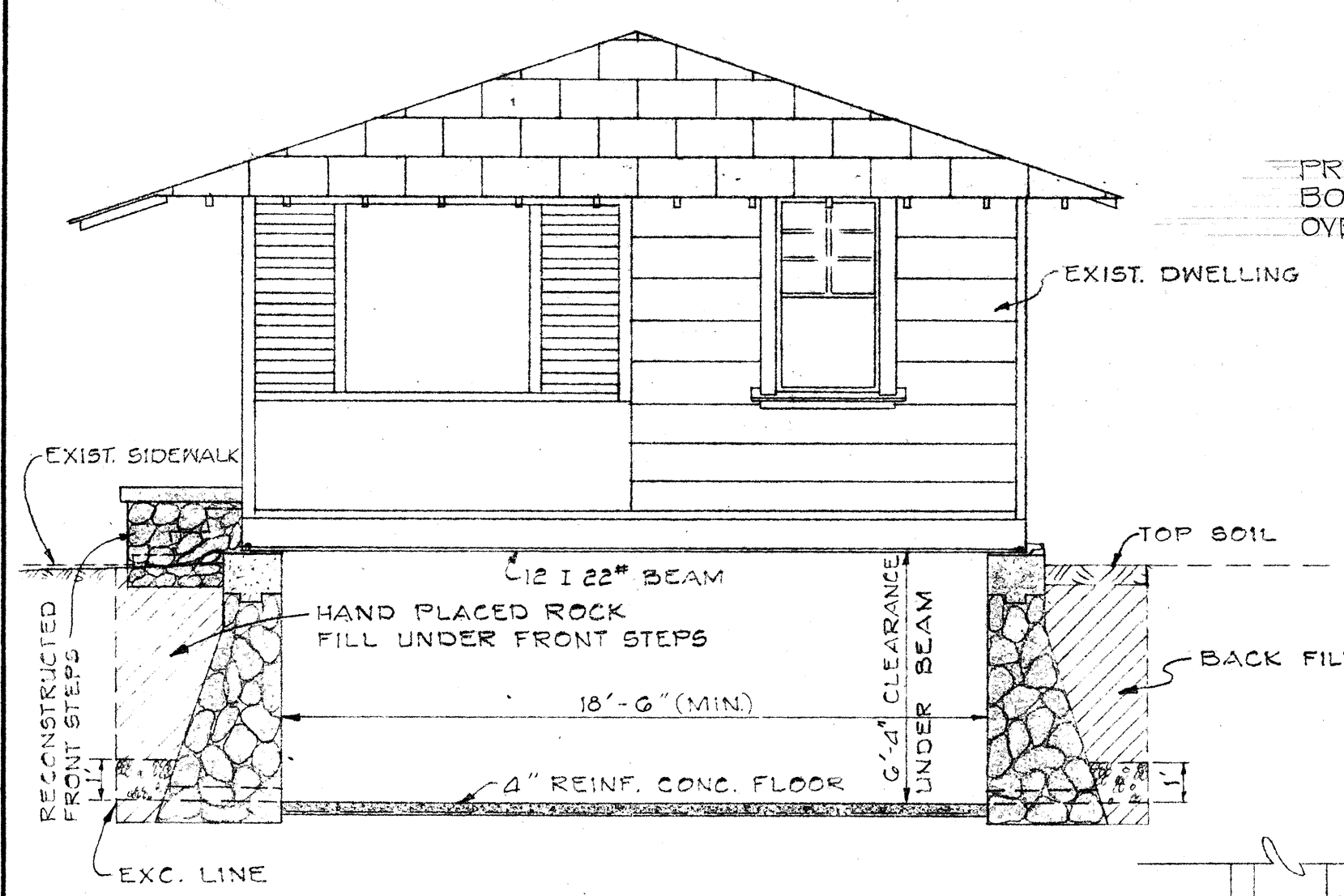
PLAN
Scale: 1/4" = 1'-0"



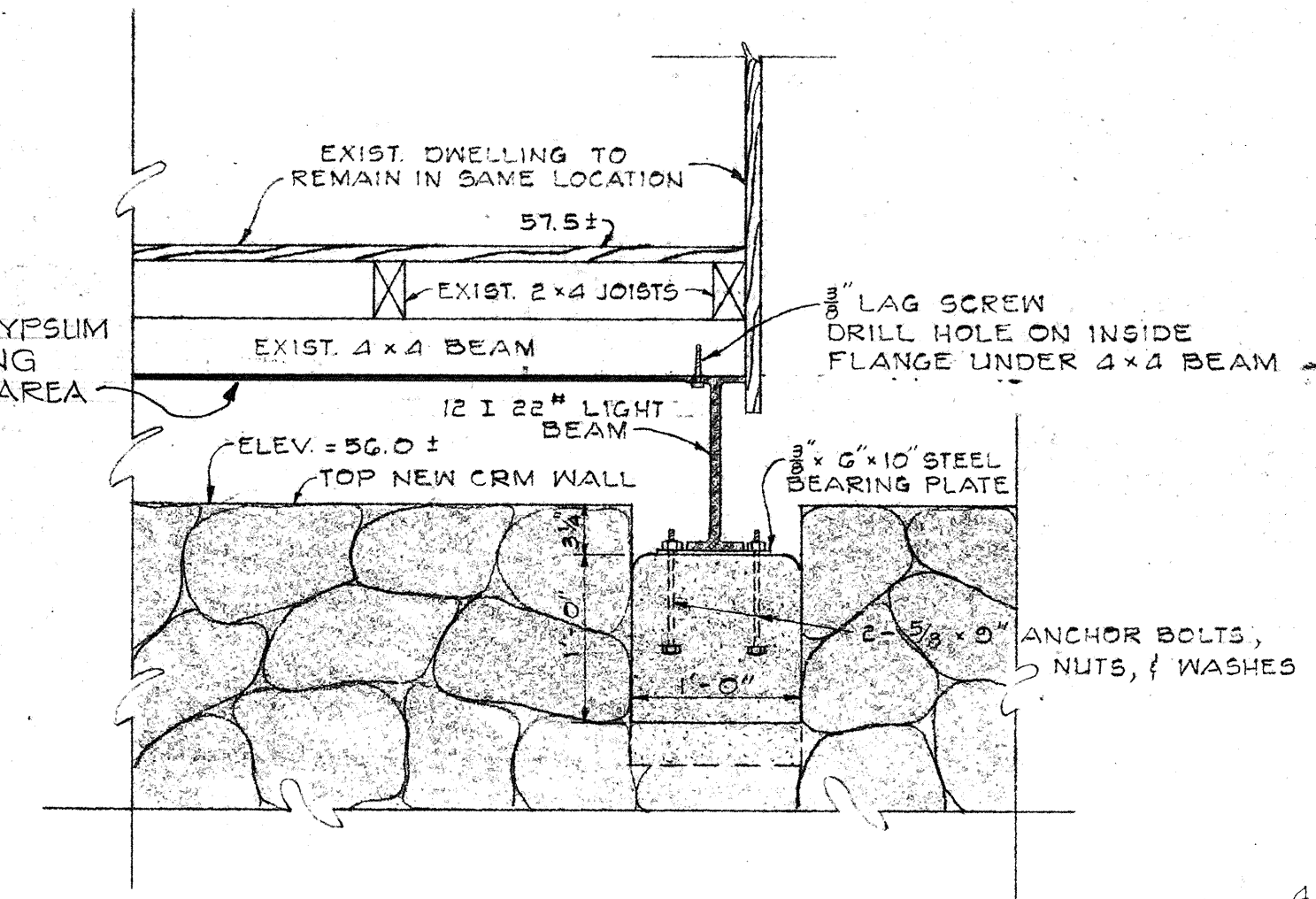
SECTION "C"
Scale: 1" = 1'-0"



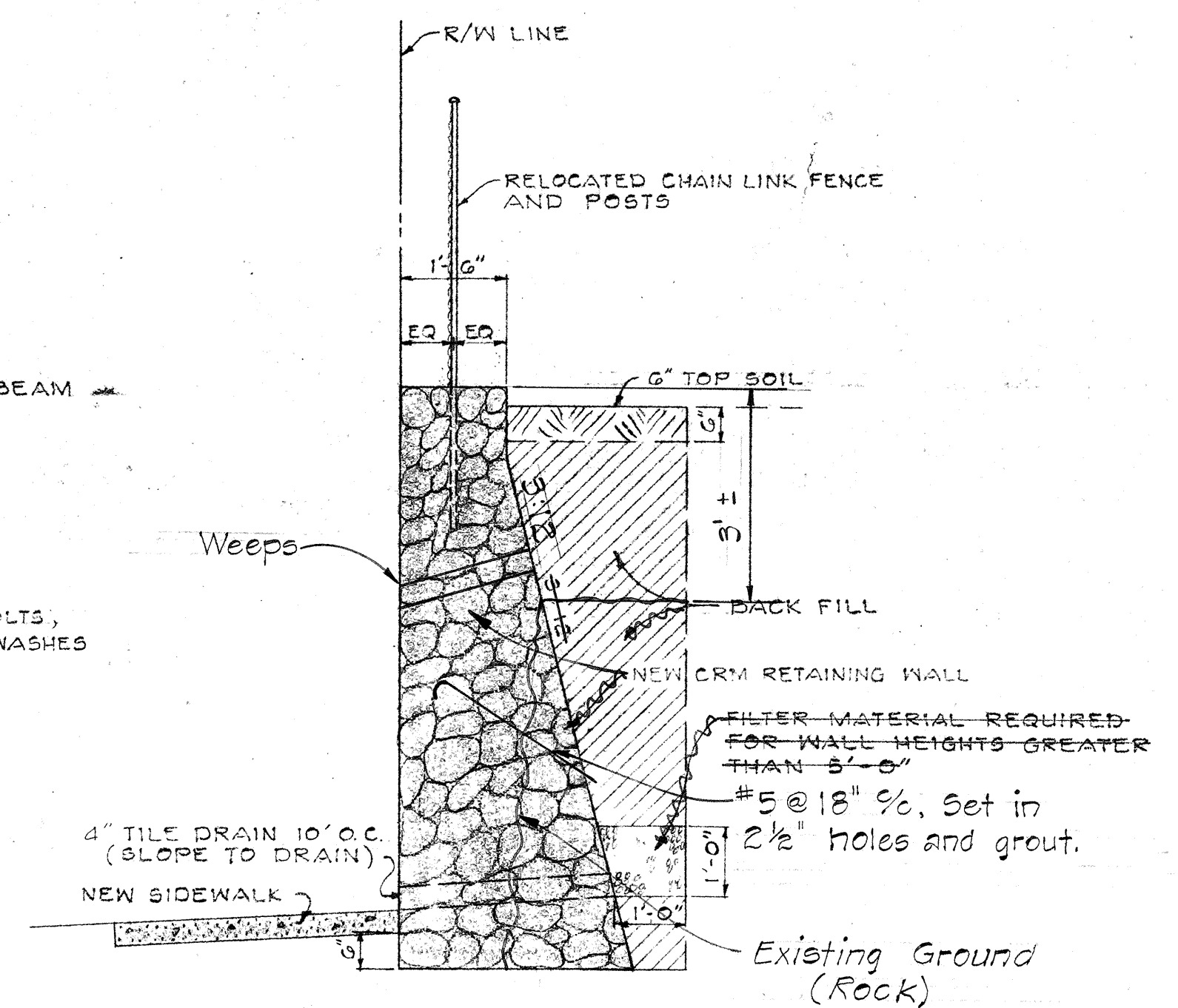
PLAN OF NEW CONC. STEPS AT PROPERTY LINE
Scale: 1/4" = 1'-0"



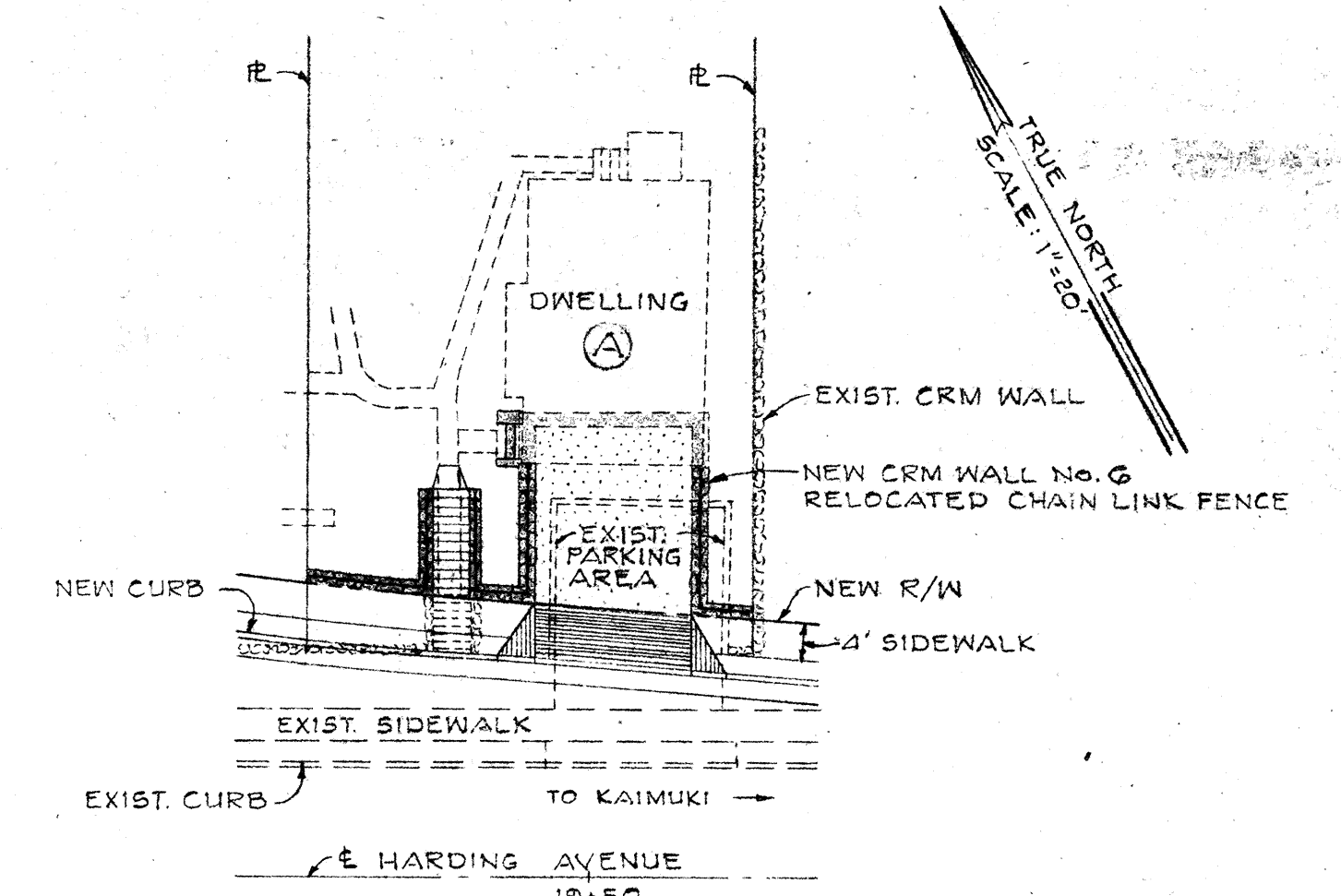
SECTION "A-A"
Scale: 1/4" = 1'-0"



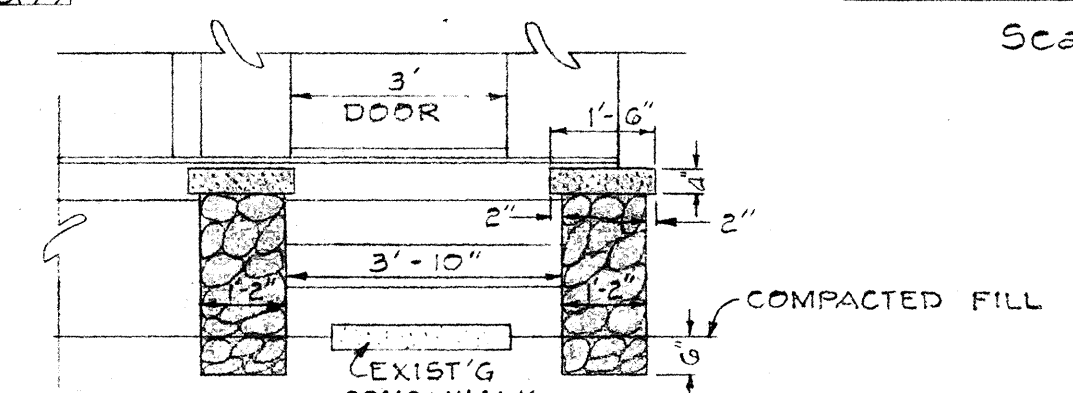
SECTION "B"
CONC. SEAT DETAIL
Scale: 1" = 1'-0"



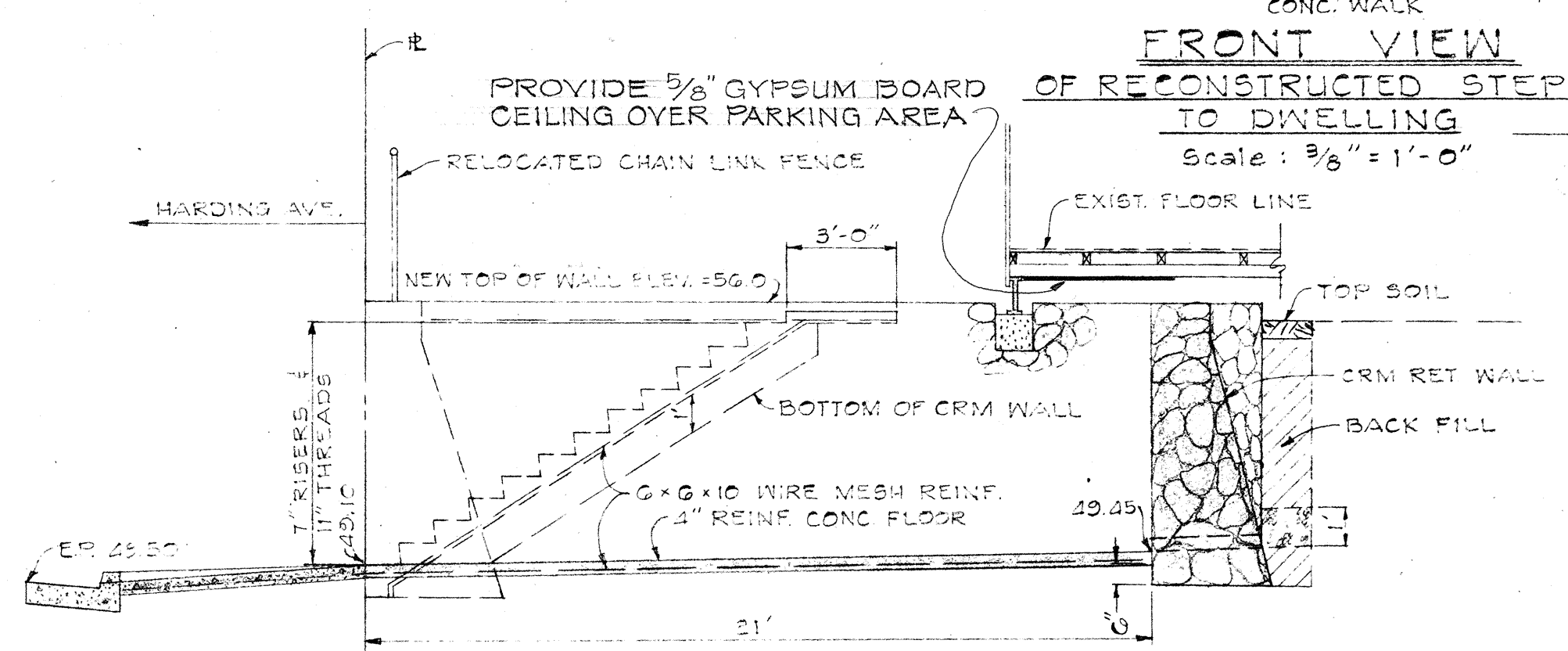
TYPE "D" CRM WALL WITH RELOCATED CHAIN LINK FENCE
Scale: 1/2" = 1'-0"



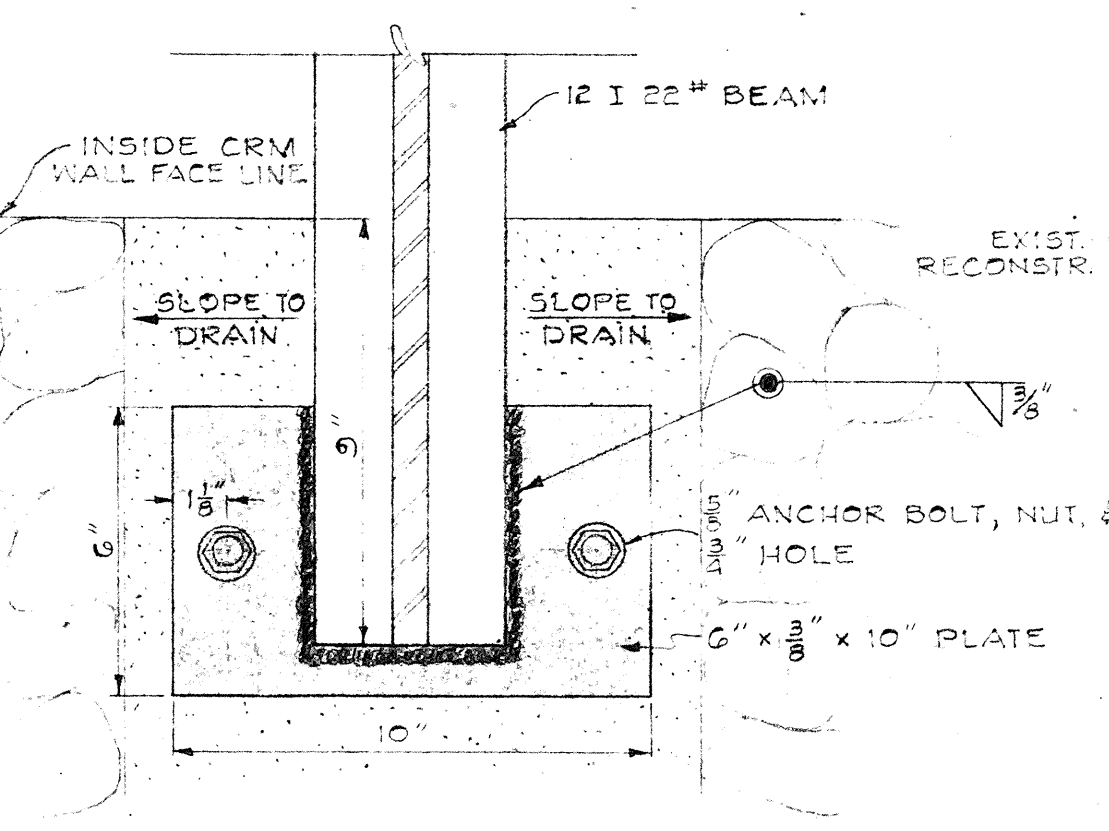
PLOT PLAN
Scale: 1" = 20'



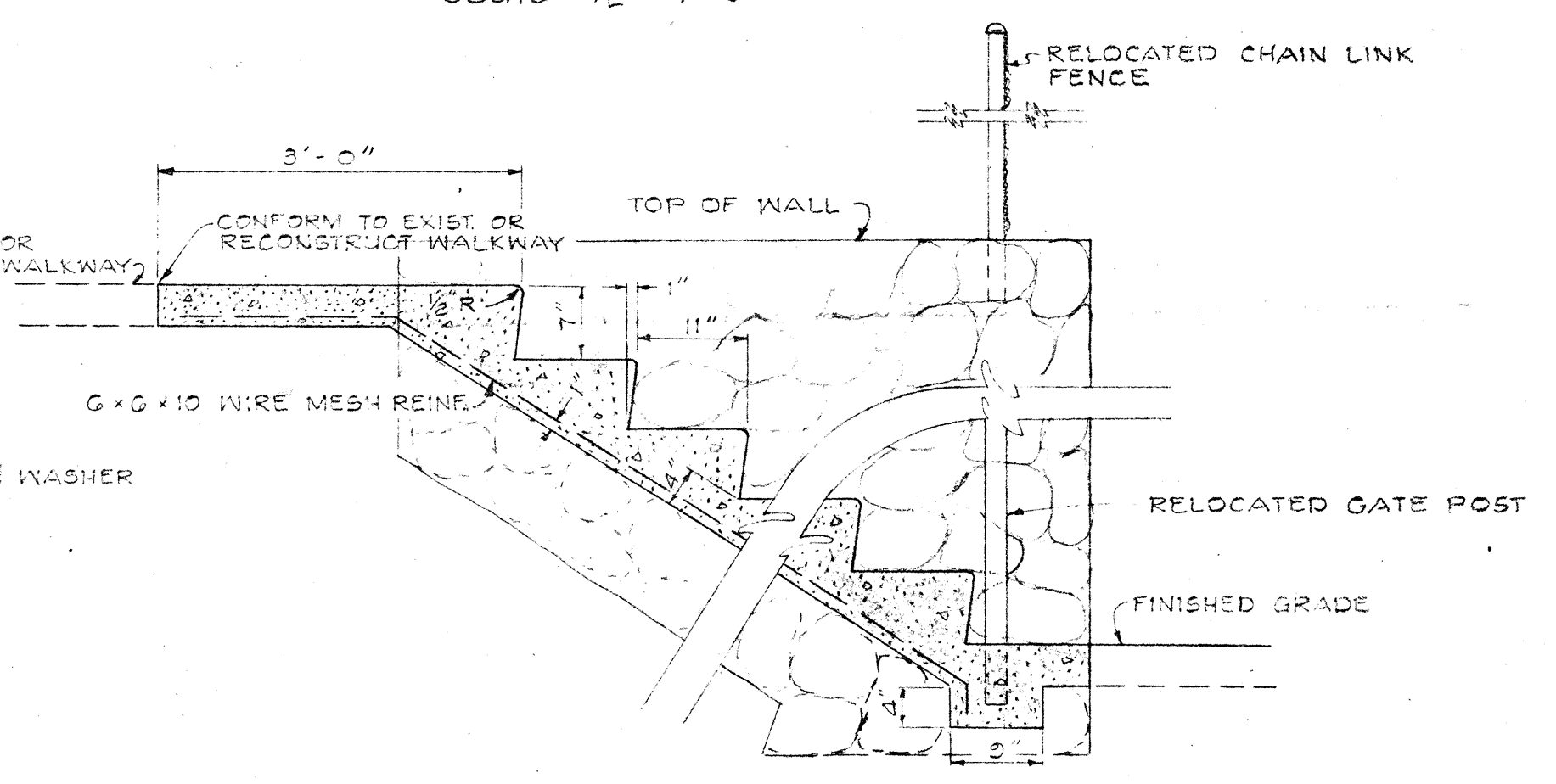
FRONT VIEW OF RECONSTRUCTED STEPS TO DWELLING
Scale: 3/8" = 1'-0"



PROFILE OF DRIVEWAY, GARAGE & CONC STEPS
Scale: 1/4" = 1'-0"



BEARING PLATE DETAIL
Scale: 3/4" = 1'-0"



TYPICAL CONC. STEPS DETAIL
Scale: 3/4" = 1'-0"

Revised: July 22, 1966
Gypsum board added over garage.

ITEM No 123-E

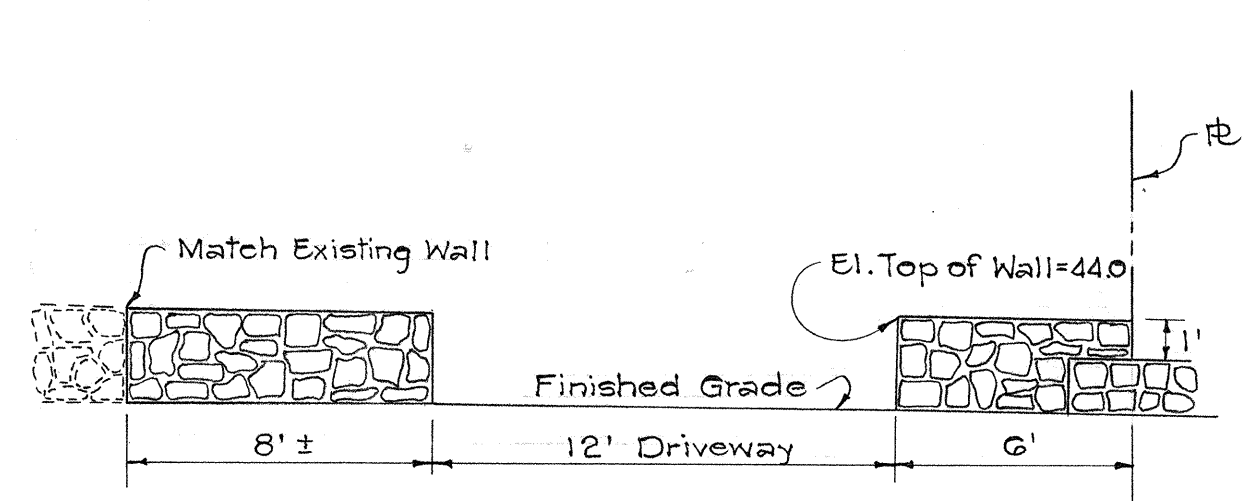
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REHABILITATION OF LOT TAX KEY 3-2-0143

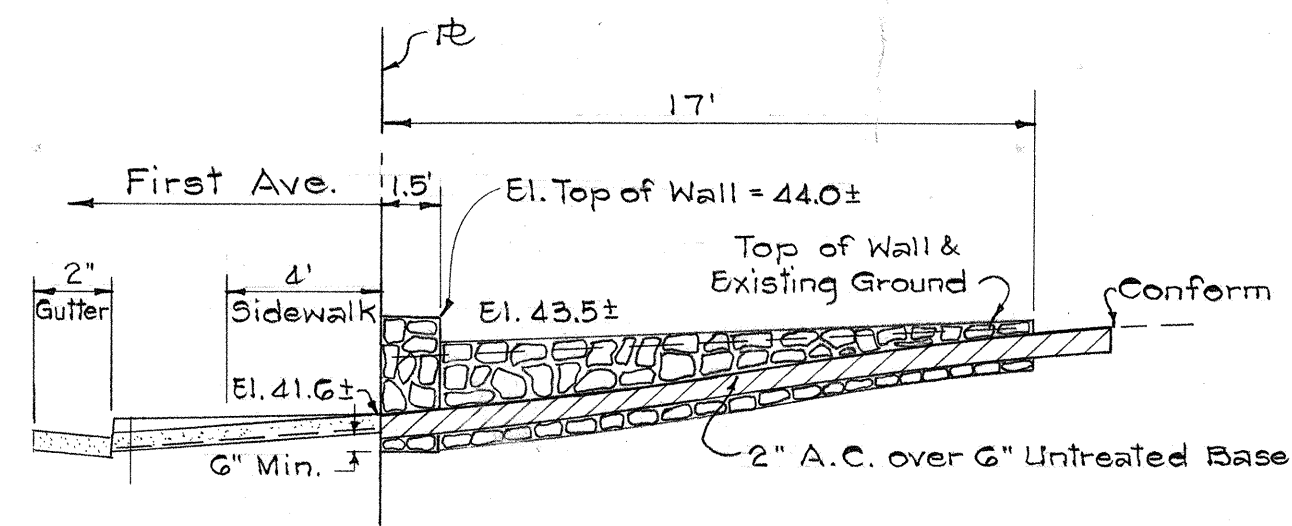
OWNER - Mr. & Mrs. Seiko Yogi
F.A.I. Proj. No. I-H-1(5)-24, Unit 2
Scale: As Shown Feb. 27, 1964

SHEET No. 6 OF 7 SHEETS

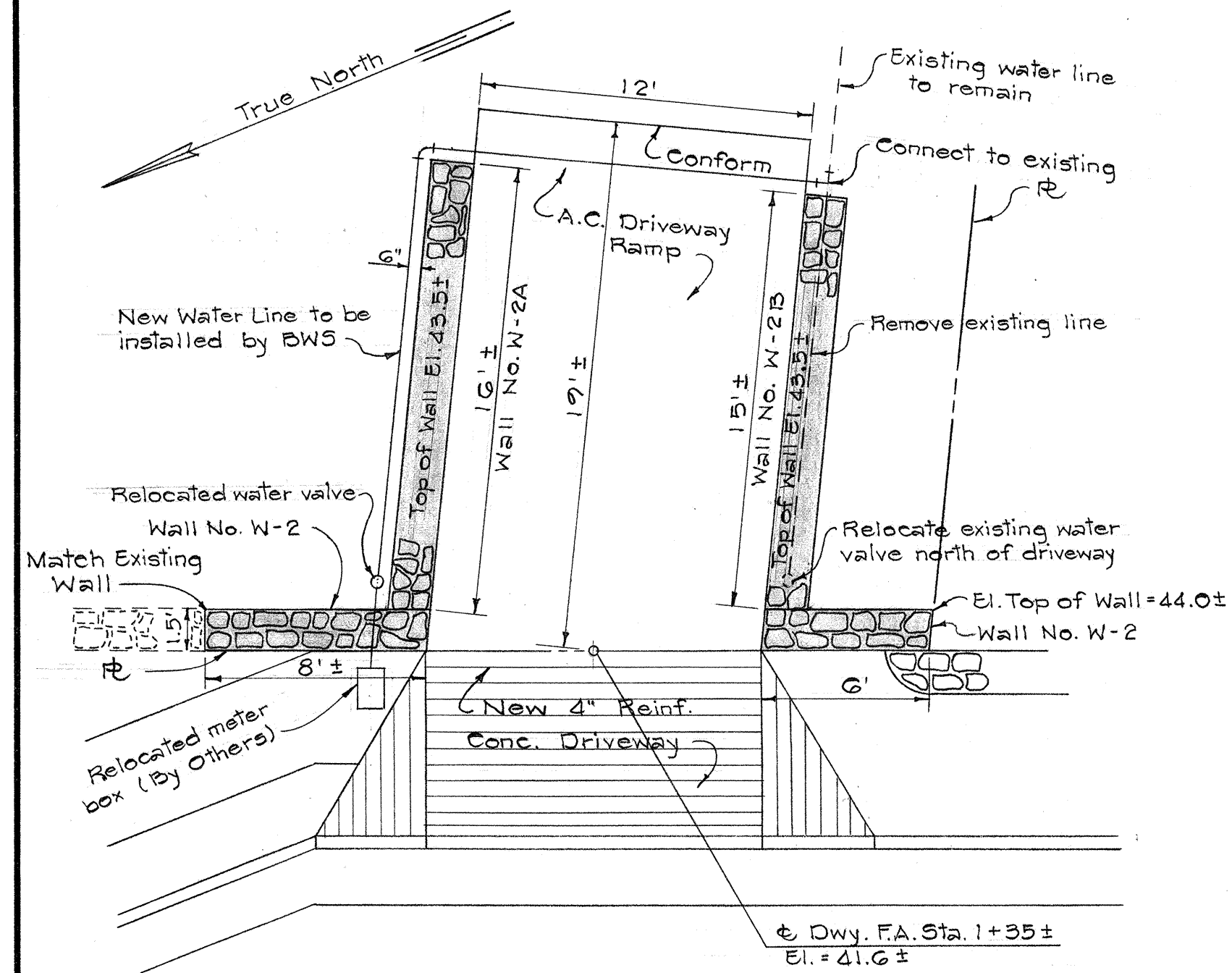
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-11-1(5):24, Unit 2	1965	52	276



ELEVATION
WALL No. W-2
Scale: 1" = 5'-0"



DRIVEWAY PROFILE
Scale: 1" = 5'-0"



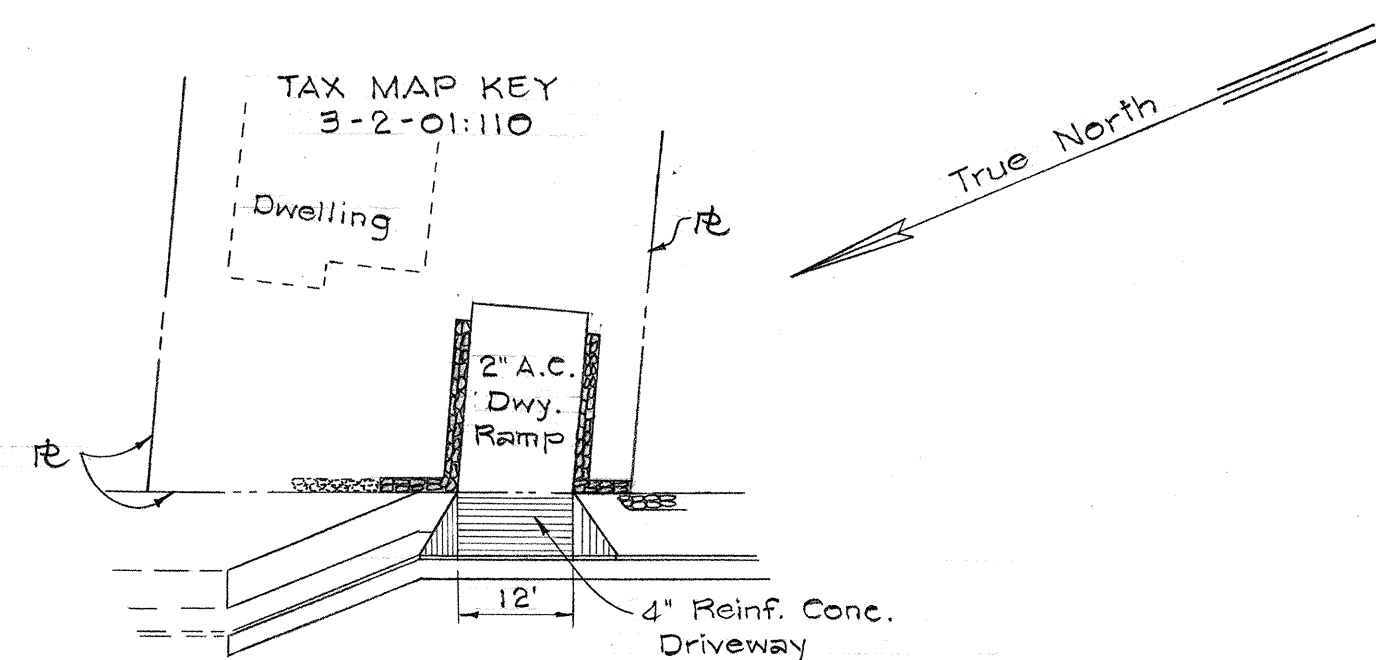
TYPICAL SECTION
WALL Nos. W-2A & W-2B
Scale: 1" = 5'-0"

NOTE:

- Construct CRM Wall Nos. W-2, W-2A & W-2B and A.C. Driveway as shown.
- Relocation of valve and rerouting of water line within property to be done by BWS. Engineer shall notify BWS.
- Relocate mail box as directed by owner. (Incidental to Contract Item No. G2 - CRM Wall)
- The owner shall be inconvenienced as little as possible.
- All work involved shall be paid for separately under applicable Contract Items, unless otherwise noted and not under Item No. 123.

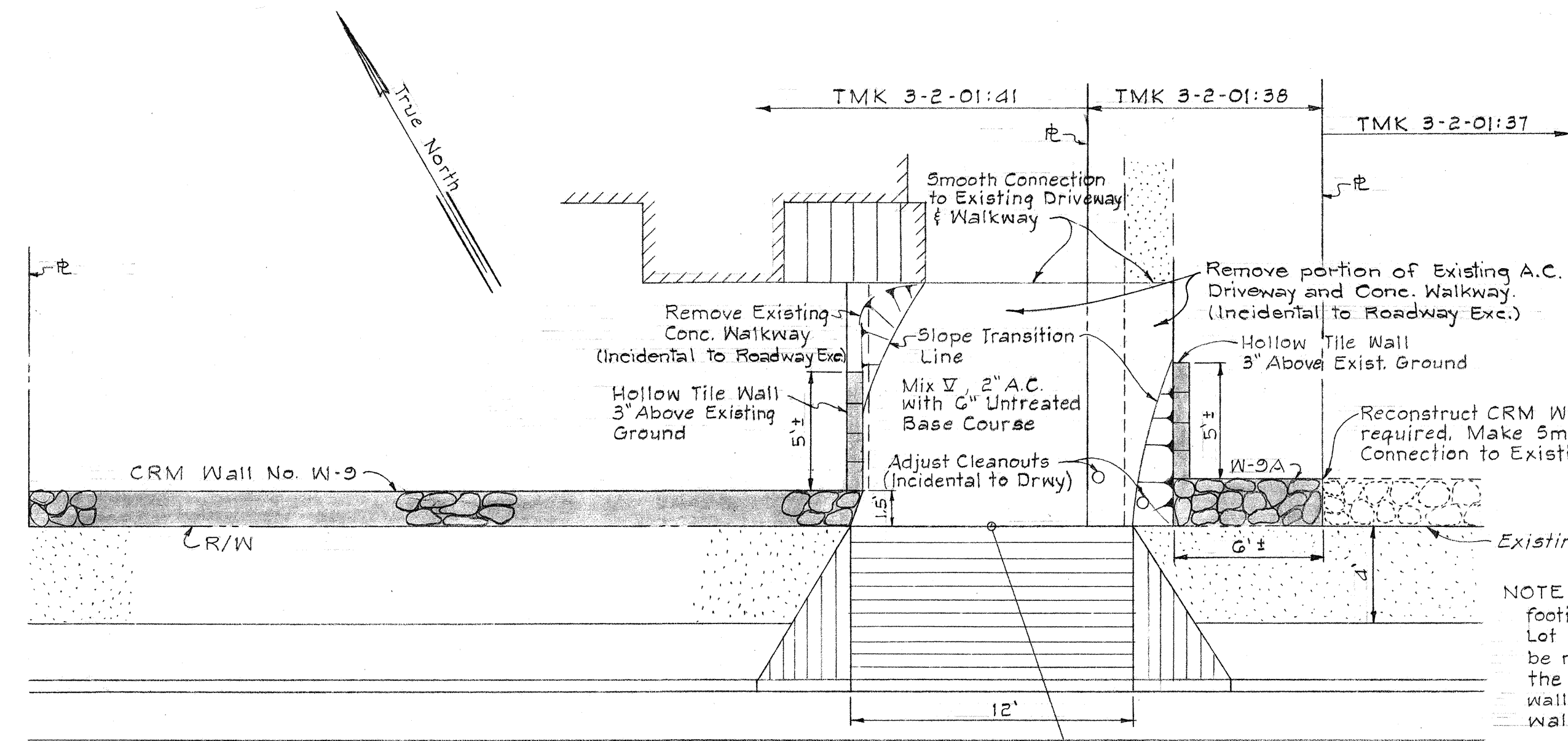
FIRST AVENUE
(← To Waiālae Ave. To Harding Ave. →)

PLAN
Scale: 1" = 5'-0"

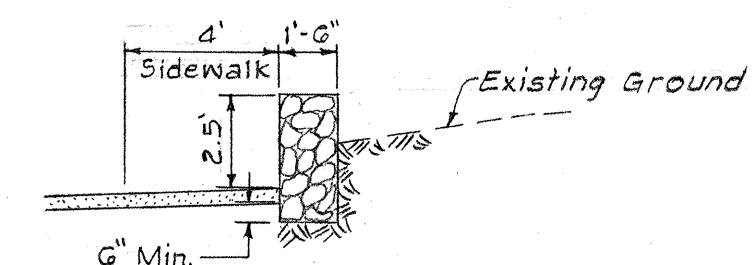


PLOT PLAN
Scale: 1" = 20'-0"

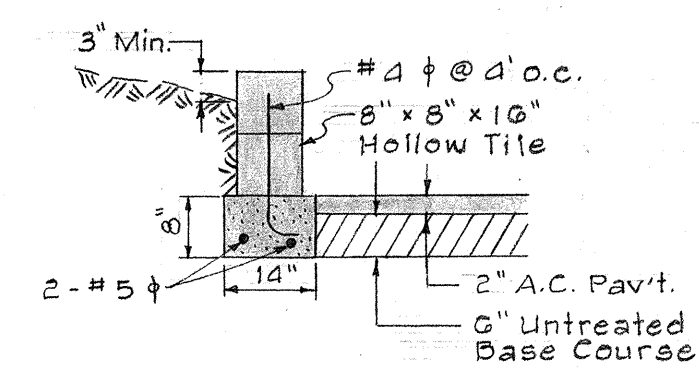
REHABILITATION OF LOT
TAX MAP KEY 3-2-01:110
AT 1111A & B FIRST AVE.
OWNERS: MR. & MRS. TAMAO HEDANI



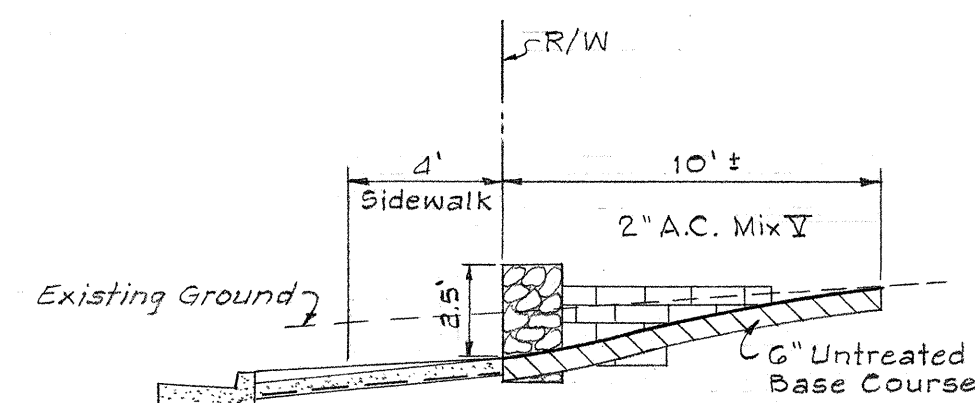
PLAN
Scale: 1" = 5'-0"



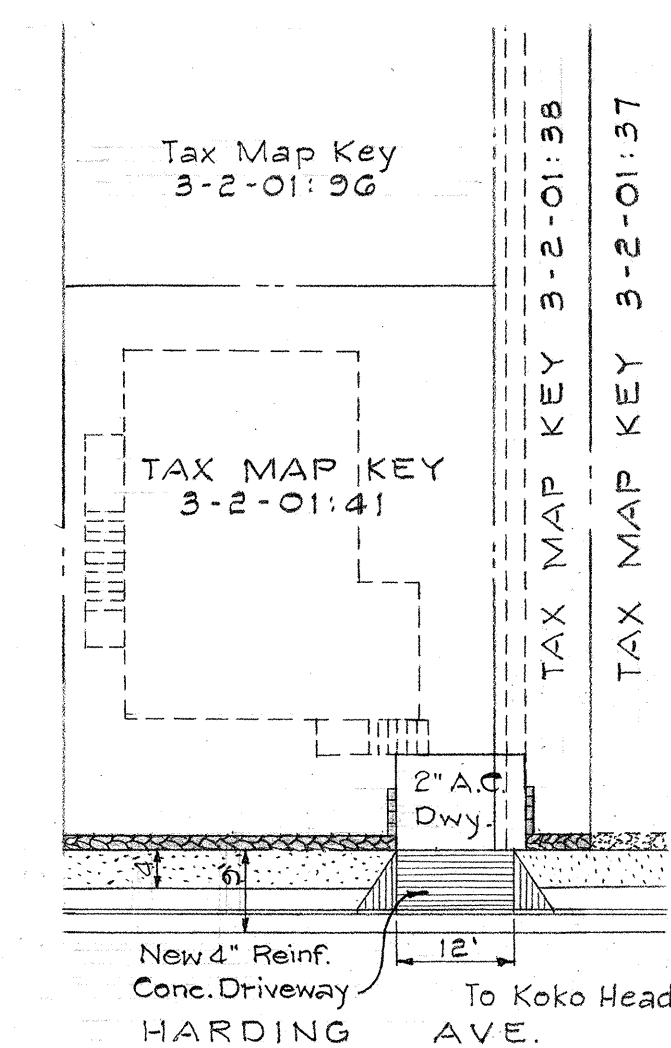
TYPICAL NEW CRM WALL
SECTION
Scale: 1" = 5'-0"



TYPICAL SECTION
OF FOOTING DETAIL
Scale: 1/2" = 1'-0"



DRIVEWAY PROFILE
Scale: 1" = 5'-0"



PLOT PLAN
Scale: 1" = 20'

NOTE:

- Construct 2" A.C. Driveway.
- Remove existing conc. walks & A.C. driveway.
- Plans along existing CRM Wall shall be removed wherever new CRM Wall replaces the existing.
- Construct Hollow Tile Wall along driveway.
- Adjust cleanout to new driveway grade. Incidental to driveway.
- All work involved shall be paid for separately under applicable Contract Items, unless otherwise noted and not under Item No. 123.

REHABILITATION OF LOT
TAX MAP KEYS 3-2-01:41, 38 & 37
VICINITY OF 3044 HARDING AVE.
OWNERS: MR. & MRS. VINCENT C. CARIAS & OTHERS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
REHABILITATION OF LOTS
TAX MAP KEY: 3-2-01:110
3-2-01:41, 38 & 37
F.A.I. Proj. No. I-H-1(5):24, Unit 2
Scale: As Shown Date: May, 1965.
SHEET No. 7 OF 7 SHEETS