FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	3	470

LEGEND

ABUT	ABUTMENT
AC	ACRE
ALUM	ALUMINUM
APPROX	APPROXIMATE
AZ	AZIMUTH
℄	BASELINE
BCT	BREAKAWAY CABLE TERMINAL
BM	BEAM
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BOTT	BOTTOM
BR	BRIDGE
C	CUT
CAP	CORRUGATED ALUMINUM PIPE
CAR	CONSTRUCTION ACCESS ROAD
CC	CENTER TO CENTER
CF	CUBIC FEET
CH	CHORD
℄	CENTERLINE
CL	CLEAR
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRUGATED
CRM	CONCRETE RUBBLE MASONRY
CY	CUBIC YARD
∂	EXISTING DRAIN LINE
DET	DETAIL
DI	DRAIN INLET
DIA	DIAMETER
DISCONT	DISCONTINUED
DIST	DISTANCE
DL	DRAIN LINE
DWGS	DRAWINGS
E	EAST
EA	EACH
EER	EMERGENCY ESCAPE RAMP
EF	EACH FACE
EQ SPC	EQUAL SPACE
ELEV	ELEVATION
EMB	EMBANKMENT
EMH	ELECTRIC MANHOLE
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EXC	EXCAVATION
EXC	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
F	FILL
FAI	FEDERAL AID INTERSTATE
FED	FEDERAL
FF	FAR FACE
FIN	FINISH
FG	FINISH GRADE
FT	FOOT/FEET
FT'G	FOOTING
GA	GAUGE
GALV	GALVANIZED
GRD	GRADE
GC	GRADE CONTROL
GRP	GROUTED RUBBLE PAVING
GS	GALVANIZED STEEL
HAW	HAWAII
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HWL	HIGH WATER LEVEL
IB	INBOUND
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INV	INVERT
LB	POUND
Lc	LENGTH OF CURVE
LD	LINED DITCH
l.f.	LINEAR FOOT/FEET
LONGIT	LONGITUDINAL
LT	LEFT
LTG	LIGHTING
LT EP	LEFT EDGE OF PAVEMENT
LT ES	LEFT EDGE OF SHOULDER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MATCH LINE
MSERW	MECHANICALLY STABILIZED EARTH RETAINING WALL
N	NORTH
NF	NEAR FACE
NHV	NORTH HALAWA VALLEY
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OB	OUTBOUND
OD	OUTSIDE DIAMETER
OPEN'G	OPENING
o/s	OFFSET
PC	POINT OF CURVATURE, PRECAST
PCC	PORTLAND CEMENT CONCRETE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PG	PEA GRAVEL
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION OF VERTICAL CURVE
PL	PLATE
POC	POINT ON CURVE
PROJ	PROJECT
PRVC	POINT ON REVERSE VERTICAL CURVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
RT	RIGHT
RT EP	RIGHT EDGE OF PAVEMENT
RT ES	RIGHT EDGE OF SHOULDER
R/W	RIGHT-OF-WAY
∂	EXISTING SEWER LINE
S	SLOPE
SCS	STREAM CROSSING STRUCTURE
SE	SUPERELEVATION
SECT	SECTION
SF	SQUARE FEET
SGF	SELECT GRANULAR FILL
SHLDR	SHOULDER
SHT	SHEET
SRC	SIDE ROAD CONNECTOR
SRMP	SPIRAL RIB METAL PIPE
STA	STATION
STD	STANDARD
STIRR	STIRRUP
STRUC	STRUCTURE
SY	SQUARE YARD
T & B	TOP AND BOTTOM
TAN	TANGENT
THK	THICK
TP	TOP OF PAVEMENT
TPB	TELEPHONE PULLBOX
TYP	TYPICAL
VAR	VARIES
VC	VERTICAL CURVE
VERT	VERTICAL
W	EXISTING WATER LINE
W/	WITH
WWF	WELDED WIRE FABRIC

SYMBOL

R/W

METAL GUARD RAIL

STANDARD WIRE FENCE

SILT FENCE

FILL SECTION

CUT SECTION

LIMIT OF GRADING

REFERENCE MONUMENT

DUMPED RIPRAP

EROSION CONTROL MATTING/HYDROMULCH

ROY MANABU MIKAMI REGISTERED PROFESSIONAL ENGINEER NO. 1595-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ParEn, Inc. dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

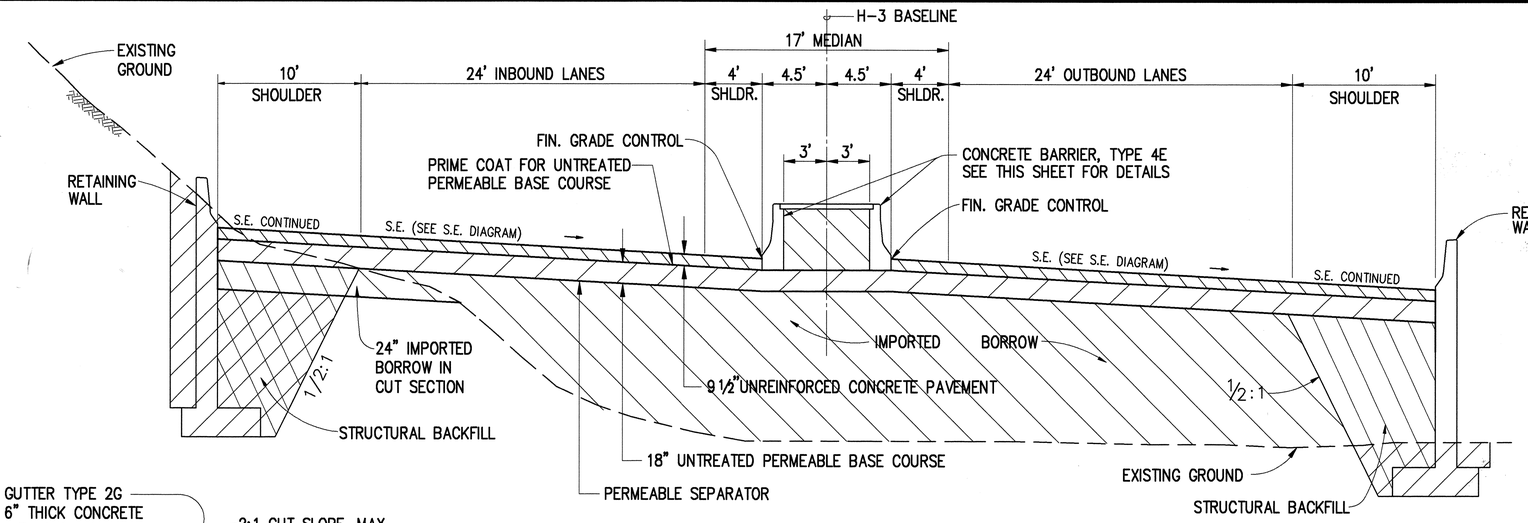
SHEET No. T1 OF 8 SHEETS

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

ROTATED: BASE PT. 0.0

LIB: STATE\DOT\H-3\H3030\ LEGEND 3/28/94 RSO

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	4	470

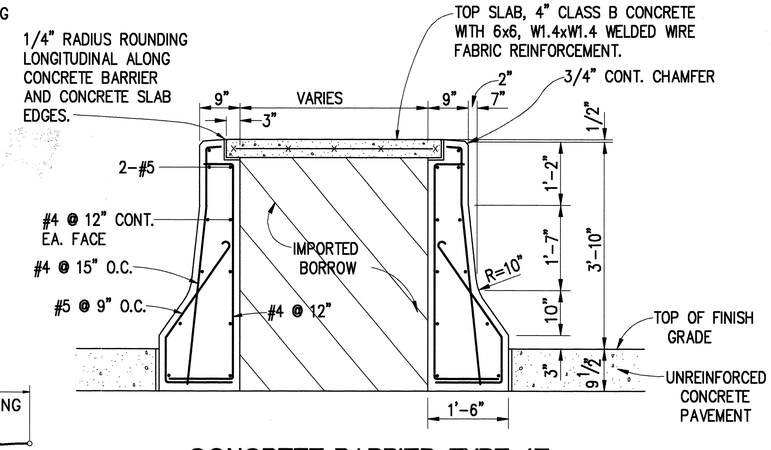


TYPICAL ROADWAY SECTION WITH RETAINING WALLS

SCALE: 1"=5'

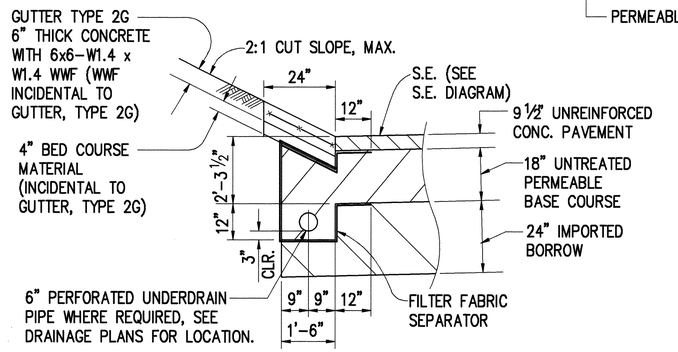
NOTES:

1. CONCRETE BARRIER, TYPE 4E SHALL CONSIST OF A TOP SLAB, DOUBLE BARRIERS, IMPORTED BORROW FILL, AND ALL REINFORCING.
2. SEE STANDARD PLAN TE-63 AND TE-65 FOR GENERAL NOTES, EXPANSION JOINT DETAIL, CONSTRUCTION AND CONTROL JOINT DETAIL, AND OPTIONAL CONSTRUCTION JOINT DETAILS.



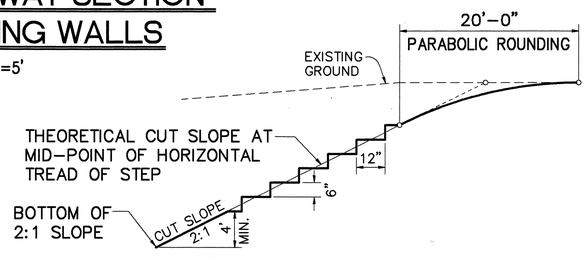
CONCRETE BARRIER, TYPE 4E

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



CUT SECTION

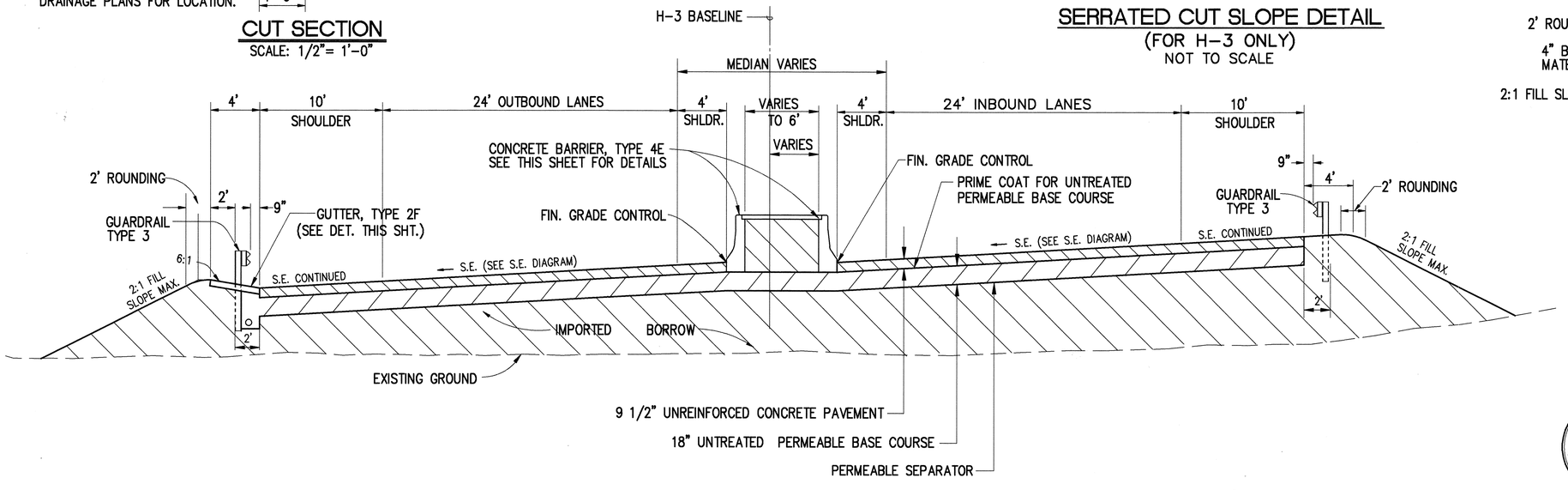
SCALE: 1/2"= 1'-0"



SERRATED CUT SLOPE DETAIL

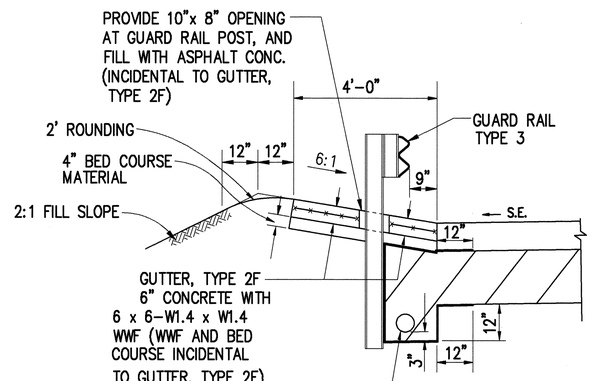
(FOR H-3 ONLY)

NOT TO SCALE



TYPICAL ROADWAY SECTION

SCALE: 1"=5'



FILL SECTION

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

DATE	REVISION
7/12/94	Revised Concrete Barrier, Type 4E Detail

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL ROADWAY SECTION

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

SHEET No. T2 OF 8 SHEETS

ROY MANABU MIKAMI REGISTERED PROFESSIONAL ENGINEER NO. 1595-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

PorEn, Inc.
dba PARK ENGINEERING

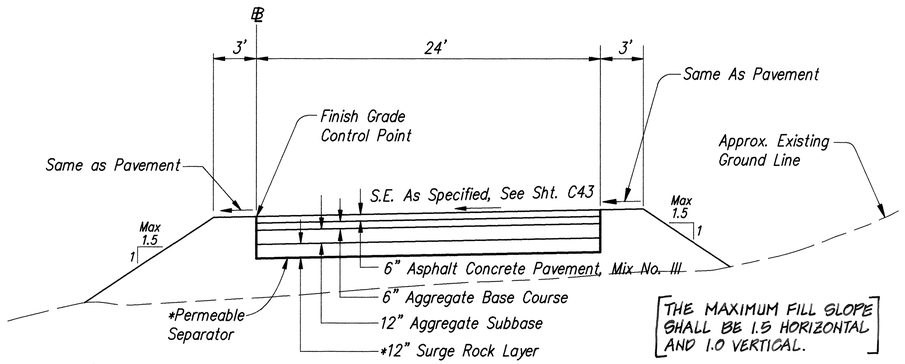
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

ROTATED: BASE PT. 0.0

LIB: STATE\DOT\H-3\H3030\ ROADSECR 7/07/94 RSO

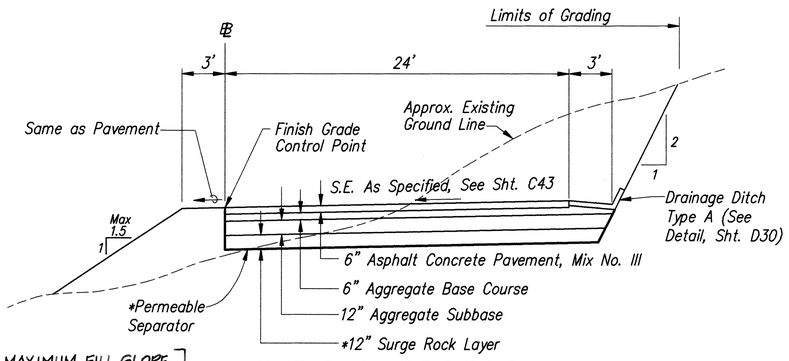
ADD. 4

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	5	470



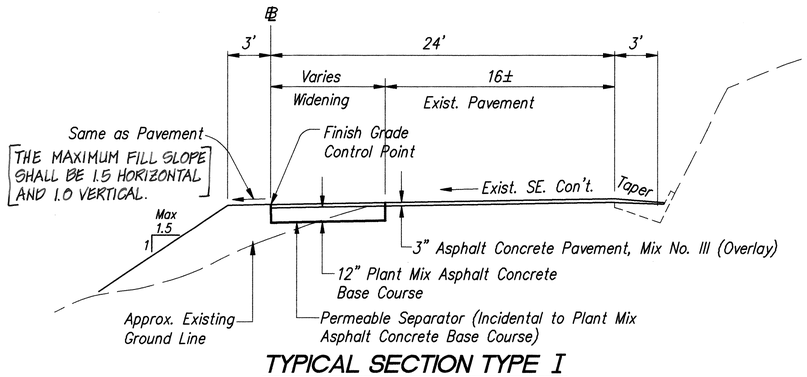
TYPICAL SECTION TYPE III

(FILL AREA)
SCALE: 1"= 5'



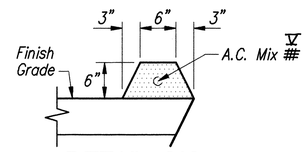
TYPICAL SECTION TYPE II

(FOR FILL/CUT AREA)
SCALE: 1"= 5'



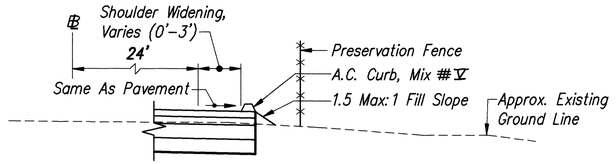
TYPICAL SECTION TYPE I

(PAVEMENT WIDENING AREA)
SCALE: 1"= 5'



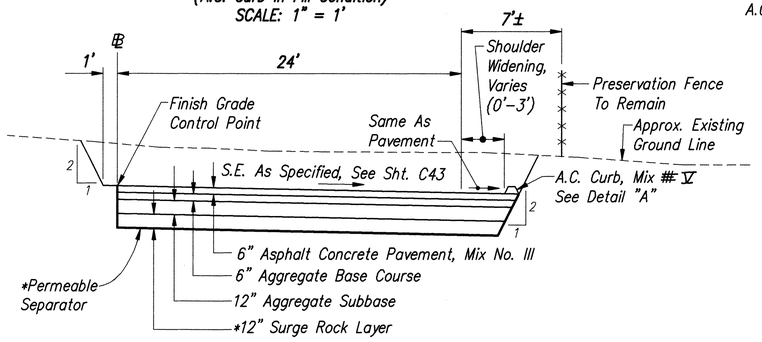
DETAIL "A"

SCALE: 1" = 1'



DETAIL "B"

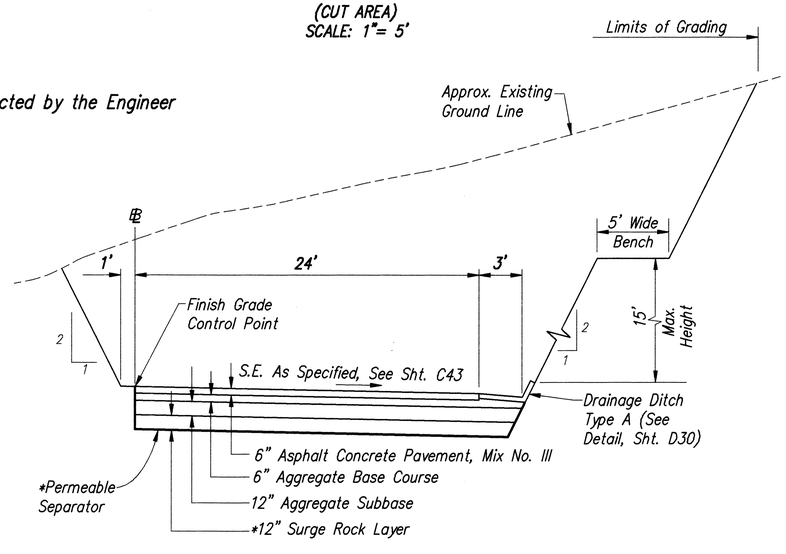
(A.C. Curb In Fill Condition)
SCALE: 1" = 1'



TYPICAL SECTION TYPE V

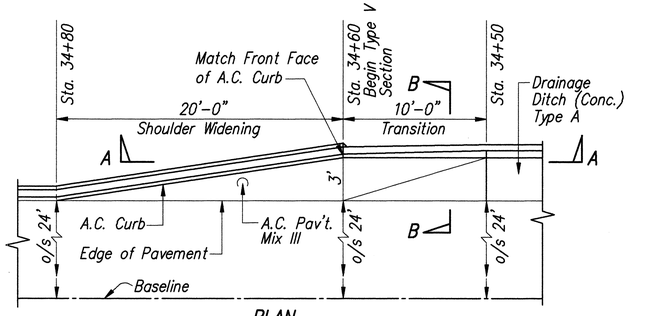
(CUT AREA)
SCALE: 1"= 5'

* When Directed by the Engineer

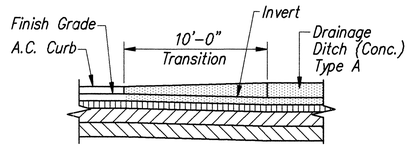


TYPICAL SECTION TYPE IV

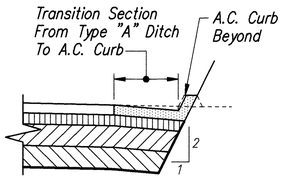
(CUT AREA)
SCALE: 1"= 5'



PLAN



SECTION "A-A"



SECTION "B-B"

TRANSITION DETAIL

NOT TO SCALE

NOTE: [ ] INDICATES ADDENDUM NO. 3 REVISIONS.

DATE	REVISION
9/19/95	ADDITION OF TYPICAL SECTION TYPE V.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION ACCESS ROAD
TYPICAL SECTIONS

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

SHEET No. T3 OF 8 SHEETS

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ParEn, Inc.
dba PARK ENGINEERING

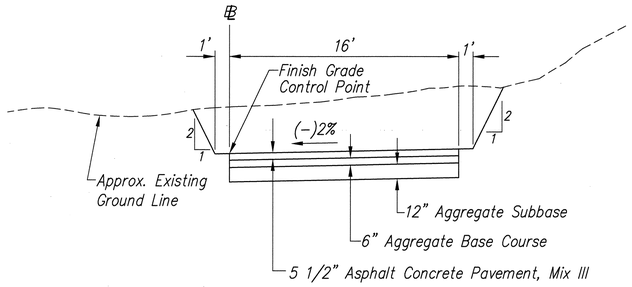
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

ROTATED: BASE PT. 0,0

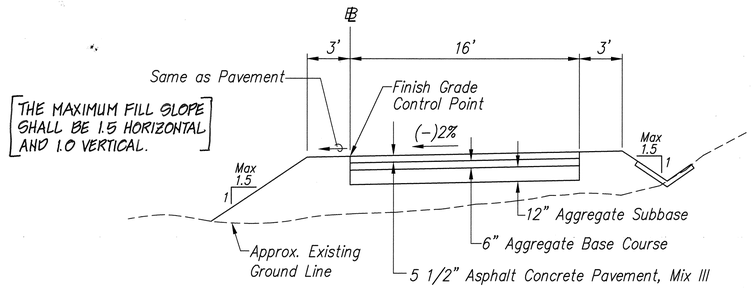
LIB: STATE\DOT\H-3\H3030\CO-005 10/05/95 GKI

C.O. 5

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	6	470

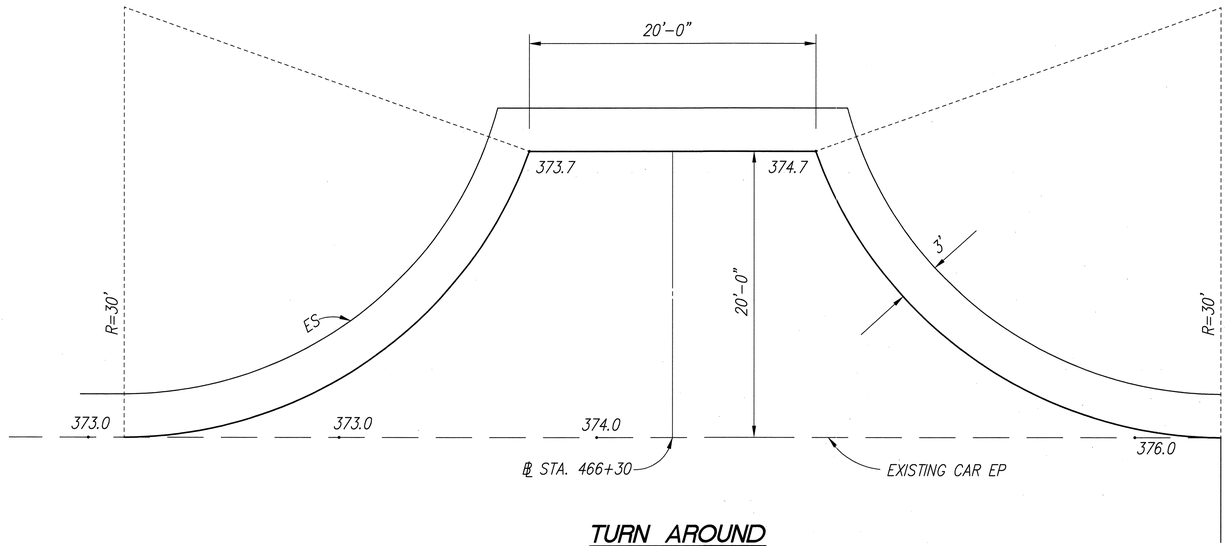


TYPICAL SECTION
STA. 1+08.93 TO STA. 2+90
(FOR CUT AREA)
SCALE: 1"= 5'



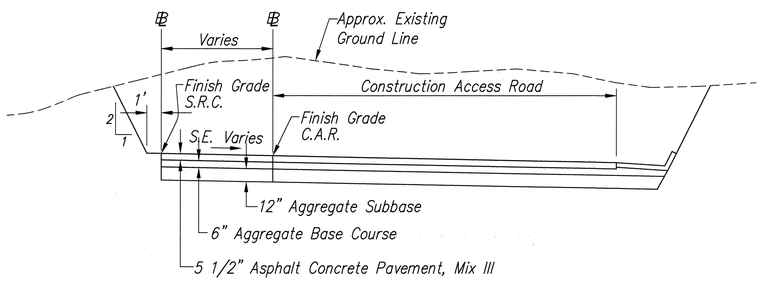
TYPICAL SECTION
STA. 1+08.93 TO STA. 2+90
(FOR FILL AREA)
SCALE: 1"= 5'

NOTE:
1. Pavement Structure same as Sideroad Connector.
2. Shoulder shall be 3'-0".
3. Fill Slopes shall be 1:1

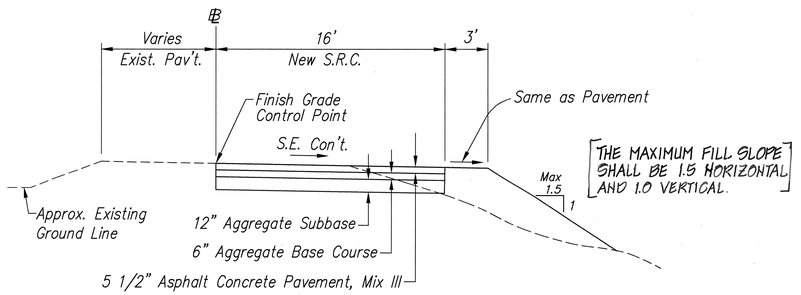


TURN AROUND
℄ STA. 466+30
SCALE: 1"= 5'

NOTE: [ ] INDICATES ADDENDUM NO. 3 REVISIONS.



TYPICAL SECTION
STA. 0+00 TO STA. 1+08.93
SCALE: 1"= 5'



TYPICAL SECTION
STA. 2+90 TO END
SCALE: 1"= 5'

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIDE ROAD CONNECTOR
TYP. SECTIONS AND MISC. DETAILS

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

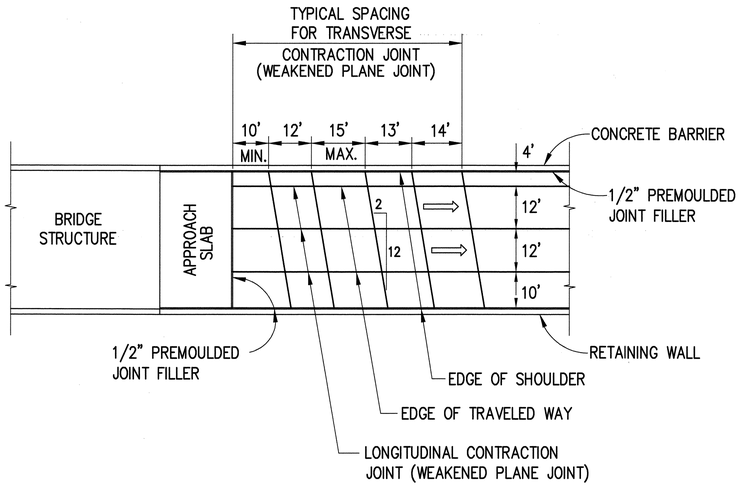
SHEET No. T4 OF 8 SHEETS

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

ROTATED BASE PT. 0.0

LIB: STATE\DOT\H-3\V3030\SRDET2 3/19/94 RSO

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	7	470



TYPICAL JOINT LOCATION AND LAYOUT PLAN

SCALE: 1"= 20'

GENERAL NOTES

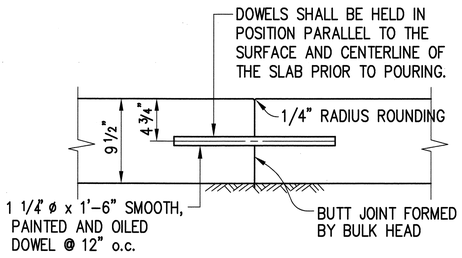
1 – TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED DIAGONALLY AS SHOWN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNDER TYPICAL CONDITONS, TRANSVERSE CONTRACTION JOINTS SHALL BE SKEWED COUNTER-CLOCKWISE WITH AN OFFSET OF 2' FOR EVERY 12' OF LANE WIDTH FROM THE PERPENDICULAR TO THE EDGE OF TRAVELED WAY.

2 – TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED AT SUCCESSIVE INTERVALS OF 12', 15', 13' AND 14' IN THE DIRECTION OF TRAFFIC. REPEAT FOR THE REMAINING JOINTS. TEN (10) FEET MINIMUM SPACING SHALL BE MAINTAINED FROM BRIDGE APPROACH SLAB AS SHOWN.

3 – TRANSVERSE CONSTRUCTION JOINTS SHALL BE LOCATED AT A MINIMUM DISTANCE OF 10' FROM THE NEAREST PLANNED TRANSVERSE CONTRACTION JOINT.

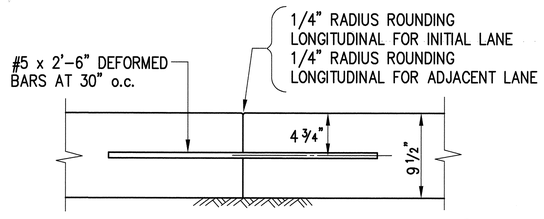
4 – THE LONGITUDINAL CONTRACTION JOINT DETAIL SHALL BE APPLICABLE AT THE INTERMEDIATE TRAFFIC LANE EDGE WHEN TWO OR MORE LANES ARE PAVED IN ONE CONTINUOUS POUR. THE STRAIGHT TIE BARS SHALL BE PLACED MECHANICALLY TO THE DEPTH AS SHOWN ON THE DETAIL. ALL OTHER LONGITUDINAL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LONGITUDINAL CONSTRUCTION JOINT (CONTACT JOINT) DETAIL SHOWN ON THIS PLAN.

5 – AT THE OUTER EDGE OF THE P.C.C. PAVEMENT, 1/4" RADIUS ROUNDING SHALL BE UTILIZED LONGITUDINALLY OR AS DIRECTED BY THE ENGINEER.



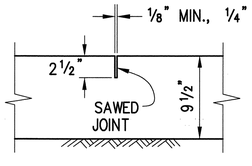
TRANSVERSE CONSTRUCTION JOINT (CONTACT JOINT)

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



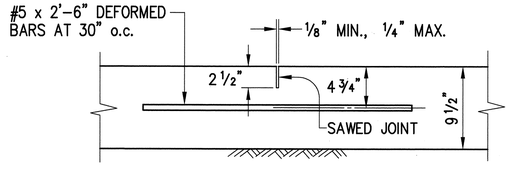
LONGITUDINAL CONSTRUCTION JOINT (CONTACT JOINT)

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



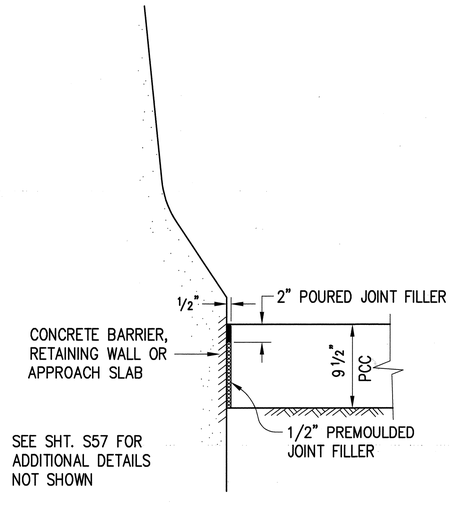
TRANSVERSE CONTRACTION JOINT (WEAKENED PLANE JOINT)

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



LONGITUDINAL CONTRACTION JOINT (WEAKENED PLANE JOINT)

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



EXPANSION JOINT DETAIL

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

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ParEn, Inc.
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

P.C.C. PAVEMENT JOINT DETAILS

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

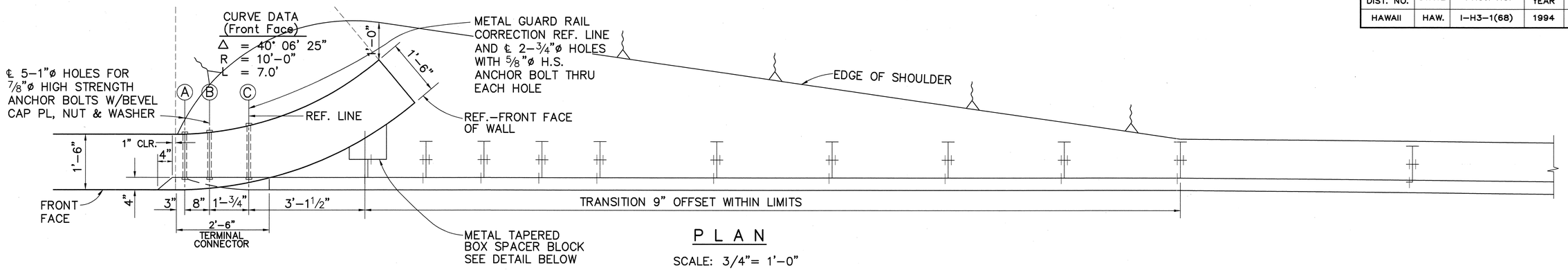
SHEET No. T5 OF 8 SHEETS

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

ROTATED BASE PT. 0.0

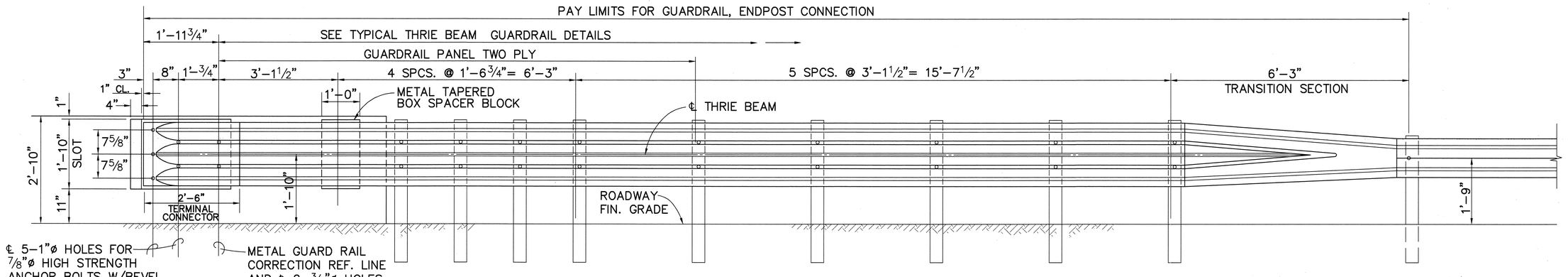
L@: STATE\DOT\I-3\T5030\PCCPAVT 2/28/94 RSO

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	8	470



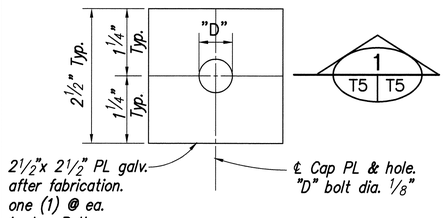
P L A N

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

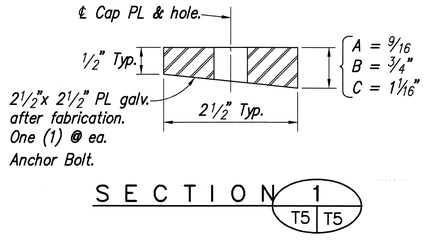


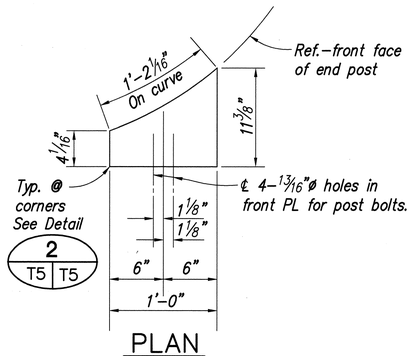
E L E V A T I O N

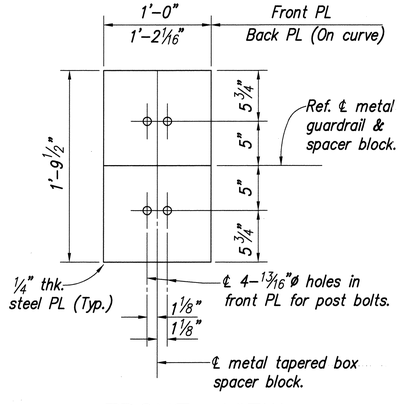
SCALE: 3/4"= 1'-0"



FRONT VIEW





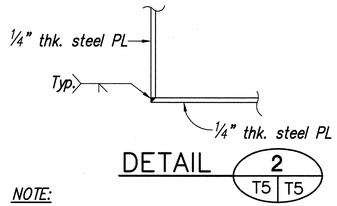


CAP (BEARING) PLATE DETAIL

SCALE: 3/4 Scale

METAL TAPERED BOX SPACER BLOCK DETAIL

SCALE: 3/4 Scale



DETAIL 2 (T5 | T5)

NOTE:

1. *Cap PL and tapered box spacer shall be fabricated from ASTM A 36 steel and hot-dip galvanized after fabrication.*
2. *Cap PL's. tapered box spacer, anchor bolts including nuts and washers and other appurtenances shall be incidental to Guardrail Type 3 (Thrie Beam) endpost connection and will not be paid for separately.*
3. *See Standard Plan TE-57 for guard rail, type 3, thrie beam detail.*

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

PorEn, Inc.
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ENDPOST CONNECTION DETAILS

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

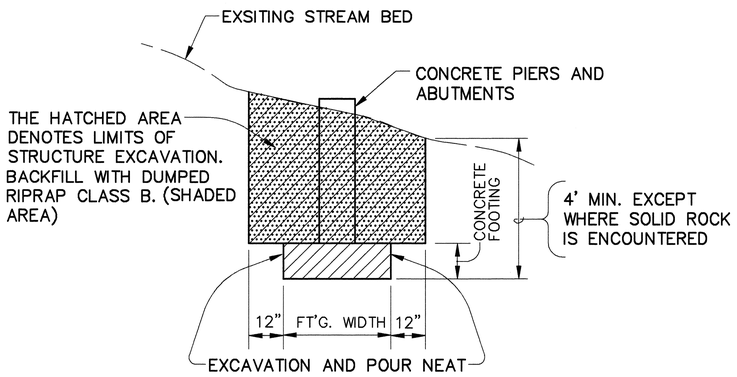
SHEET No. T6 OF 8 SHEETS

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

ROTATED: BASE PT. 0.0

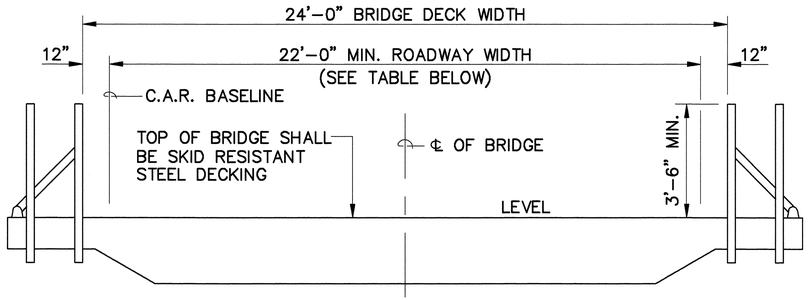
LIB. STATE\DOTV-3\V3030\RAILBARR 3/9/94 RSD

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	9	470



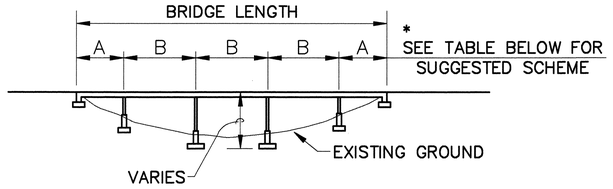
BRIDGE STRUCTURE FOOTING EXCAVATION PAY LIMIT

N.T.S.



TYPICAL SECTION FOR STREAM CROSSING STRUCTURE

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



TYPICAL ACCESS ROAD BRIDGE ELEVATION

N.T.S.

NOTES:

1. ESTIMATED TOTAL BRIDGE LENGTH AND QUANTITIES SHOWN IN PROPOSAL ARE BASED ON MODULE LENGTHS SHOWN IN TABLE OF SUGGESTED BRIDGE SPAN SCHEMES.
2. BRIDGE CONCRETE PIERS AND ABUTMENTS SHALL BE PERPENDICULAR WITH THE LONGITUDINAL AXIS OF BRIDGE.
3. THE PIERS SHALL NOT BE LOCATED WITHIN THE PRESENT CHANNEL FLOW.

TABLE OF SUGGESTED BRIDGE SPAN SCHEMES

STREAM CROSSING STRUCTURE NO.	TOTAL BRIDGE LENGTH (FT)	ROADWAY WIDTH (FT)	BRIDGE DECK WIDTH (FT)	* A SPAN (FT) X NO. OF SPANS	* B SPAN (FT) X NO. OF SPANS
4	120	16	18	30' x 2	60' x 1
5	120	22	24	30' x 1	90' x 1
6	120	22	24	30' x 1	90' x 1
7	250	22	24	40' x 2 50' x 1	120' x 1
8	100	22	24	0	100' x 1

DATE	REVISION
8/25/94	Revised Table and added "Deck Width".
7/12/94	Revised Note 2, backfill designation and span schemes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION ACCESS ROAD

STREAM CROSSING STRUCTURE

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

SHEET No. T7 OF 8 SHEETS

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

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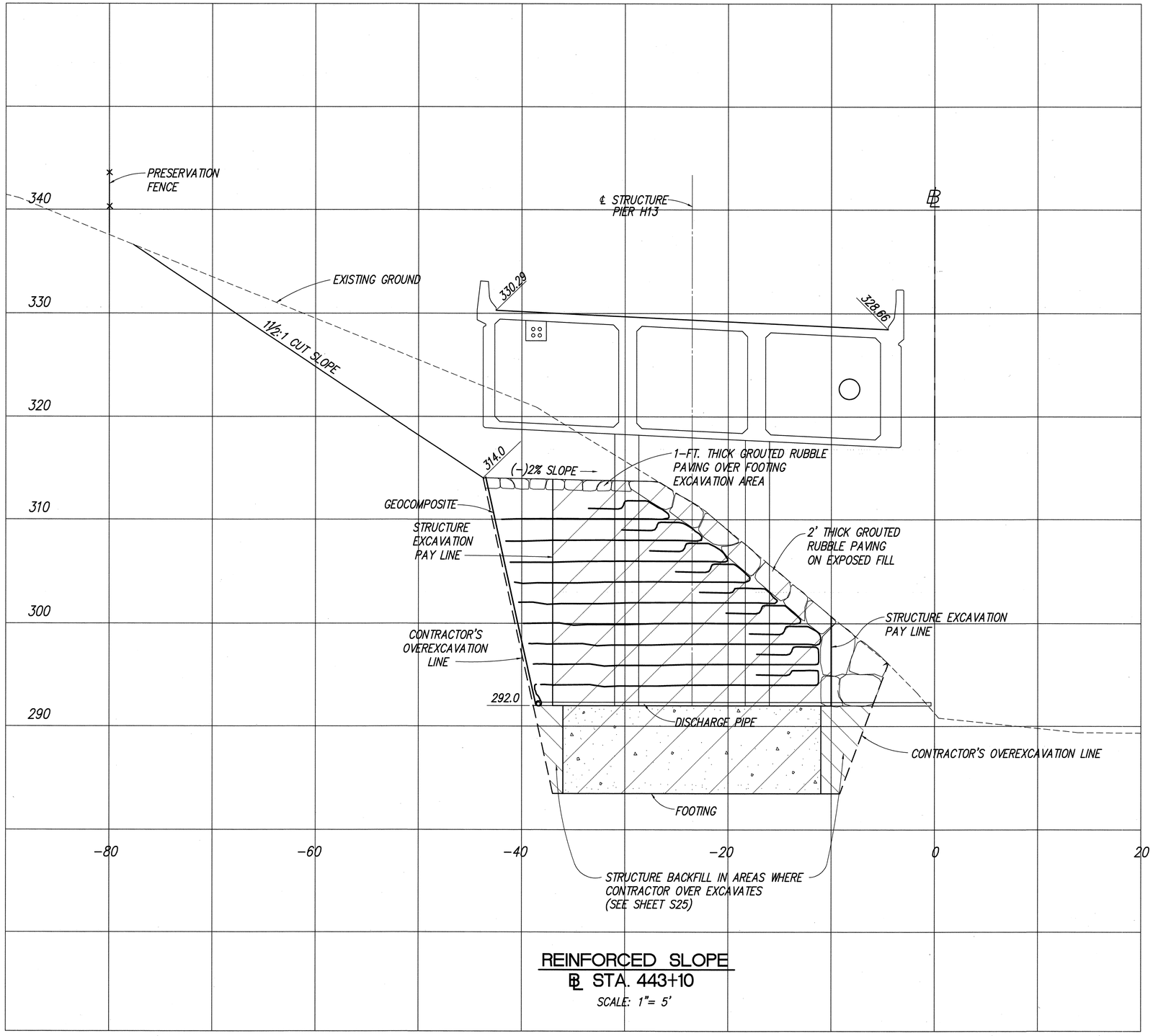
ORIGINAL PLAN
NOTE BOOK
No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ROTATED: BASE PT. 0.0

LIB: STATE\DOT\H-3\V3030\ ACBRTSR 8/25/94 GKI

ADD. 9

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(68)	1994	10	470



REINFORCED SLOPE
℄ STA. 443+10

SCALE: 1"= 5'

NOTES:

1. DETAILS SHOWN FOR GENERAL GUIDE.
2. SEE SPECIAL PROVISIONS SECTION 209- MECHANICALLY STABILIZED SLOPE FOR REQUIREMENTS.
3. SEE SHEET NO. S25 FOR OVER EXCAVATION.

ROY MANABU MIKAMI
REGISTERED PROFESSIONAL ENGINEER
NO. 1595-C
HAWAII, U.S.A.

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dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MECHANICALLY STABILIZED SLOPE
AT ℄ STA. 443+10

INTERSTATE ROUTE H-3
North Halawa Valley Highway, Unit I, Phase IB
F.A.I. PROJECT NO. I-H3-(68)

SCALE: AS NOTED DATE: MAR. 1994

SHEET No. T8 OF 8 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
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DATE
NOTE BOOK
No.

ROTATED: BASE PT. 0.0

LIB: STATE\DOT\H-3\V3030\K44310 3/19/94 RSO