ABBREVIATIONS

ACOUS.	ACOUSTICAL
ACT.	ACTUAL
A.D.	AREA DRAIN
ADJ.	ADJACENT OR ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
ALT.	ALTERNATE
AL. OR ALUM.	ALUMINUM
ANCH.	ANCHOR
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
AVG.	AVERAGE
BD.	BOARD
BET.	BETWEEN
B.F.	BOTH FACES
BIT.	BITUMINOUS
BK'G.	BACKING
BLDG.	BUILDING
℄	BASE LINE
BLK.	BLOCK
BLK'G.	BLOCKING
BM.	BEAM
BM	BENCH MARK
BOT. OR BOTT.	BOTTOM
BR.	BRIDGE
B.U.	BUILT UP
CAB.	CABINET
C.B.	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
℄	CENTERLINE
CEM.	CEMENT OR CEMENTITIOUS
CER.	CERAMIC
C.I.	CAST IRON
CIP	CAST-IN-PLACE
C.L.	CONTROL LINE
CLG.	CEILING
CLKG.	CAULKING
CLOS.	CLOSET
CLR.	CLEAR
CMP	CORRUGATED METAL PIPE
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CASED OPENING OR CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDUIT
CONN.	CONNECTION
CONST. OR CONSTR.	CONSTRUCT OR CONSTRUCTION
CONT.	CONTINUOUS
CONT'D	CONTINUED
CORR.	CORRIDORE
CF, CU.FT. OR C.F.	CUBIC FEET
C.T.	CERAMIC TILE
CTSK.	COUNTERSUNK
CTR.	CENTER OR COUNTER
DBL.	DOUBLE
D.D.	DOOR DIMENSION
DET.	DETAIL
D/F	DRINKING FOUNTAIN
D.F.	DOUGLAS FIR
D, DIA. OR ⌀	DIAMETER
DIAG.	DIAGONAL
D.I.	DROP INLET, DROP INTAKE
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
DWR.	DRAWER
DWG.	DRAWING
D/S	DOWNSPOUT
D.S-P.	DRY STANDPIPE
E	EAST
EA.	EACH
E.B.	EXPANSION BOLT
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENAM.	ENAMEL
ENCL.	ENCLOSURE
EOP	EDGE OF PAVEMENT
E.P.	ELECTRICAL PANELBOARD
EQ.	EQUAL
EQP'T OR EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXH.	EXHAUST
EXIST. OR (E)	EXISTING
EXP.	EXPANSION
EXTER. OR EXT.	EXTERIOR
F	FIXED
F.A.	FIRE ALARM
F.B.	FIRE BAR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H. OR FH	FIRE HYDRANT
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FIN. FL.	FINISHED FLOOR
FIN. GR.	FINISHED GRADE
FIXT.	FIXTURE
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE OR FACE OF CURB
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
F.S.	FULL SIZE
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
GEN.	GENERAL
GL.	GLASS
GND. OR GD.	GROUND
GR.	GRADE
GYP. BD.	GYPSUM BOARD
H.	HEIGHT
H.C.	HOLLOW CORE
HDR.	HEADER
HDWD.	HARDWOOD
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
IB	INBOUND
I.D.	INSIDE DIAMETER
IN.	INCH
INCL.	INCLUDING
INFO.	INFORMATION
INSUL.	INSULATION
INT. OR INTER.	INTERIOR
INTERM.	INTERMEDIATE
INV.	INVERT
JAN.	JANITOR
JT.	JOINT
L.	LENGTH
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LB(S).	POUND(S)
L.F. OR LIN.FT.	LINEAR FOOT OR LINEAL FEET
LG.	LONG
LT.	LIGHT
LTG.	LIGHTING
LVR.	LOUVER
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET. OR MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.L.	MATCH LINE
M.O.	MASONRY OPENING
MSL	MEAN SEA LEVEL
MTD.	MOUNTED
N	NORTH
NA	NOT APPLICABLE
(N)	NEW
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
OB	OUTBOUND
OBS.	OBSCURE
O.C.	ON CENTER
OFF.	OFFICE
O.D.	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
PB	PULLBOX
P.C.	PORTLAND CEMENT
PL	PLATE
PL. OR ℙ	PROPERTY LINE
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PMF.	PREMOLD FILLER
PR.	PAIR
PRCST.	PRE-CAST
PROJ.	PROJECT
PT.	POINT, PAINT
PTD.	PAINTED
P.T.D.	PAPER TOWEL DISPENSER
PVMT.	PAVEMENT
Q.T.	QUARRY TILE
QTR.	QUARTER
R.	RISER
RAD.	RADIUS
R.A.G.	RETURN AIR GRILL
R.B.	RUBBER BASE
R.B.T.	RANDOM BOARD TEXTURE
R.D.	ROOF DRAIN
RD.	ROAD
RDWD.	REDWOOD
REF.	REFERENCE
REG.	REGISTER
REINF.	REINFORCED
REQ'D.	REQUIRED
RET.	RETAIN OR RETAINING
REV.	REVISED OR REVISION
RM.	ROOM
RN	REFERENCE NORTH
R.O.	ROUGH OPENING
RT.	RIGHT
R.W.	RETAINING WALL
R.W.L.	RAIN WATER LEADER
R/W	RIGHT-OF-WAY
S	SOUTH
S.A.G.	SUPPLY AIR GRILL
S.C.	SOLID CORE
S.A.P.	SEE ARCHITECTURAL PLANS
S.C.P.	SEE CIVIL PLANS
S.C.D.R.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	SOAP DISPENSER
SEC. OR SECT.	SECTION
S.E.P.	SEE ELECTRICAL PLANS
SF	SQUARE FEET
SH.	SHELF
SHT.	SHEET
SHR.	SHOWER
SIM.	SIMILAR
S.M.P.	SEE MECHANICAL PLANS
S.P.P.	SEE PLUMBING PLANS
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S.ST.	STAINLESS STEEL
S.S.	SERVICE SINK
S.S.P.	SEE STRUCTURAL PLANS
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.	TREAD
T&B	TOP AND BOTTOM
TEL.	TELEPHONE
TEMP.	TEMPORARY
T.F.C.	TOP OF FINISH CONCRETE
THK.	THICK
T.O.	TOP OF
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STRUCTURE
T.O.W.	TOP OF WALL
TRANSF.	TRANSFORMER
TYP.	TYPICAL
UD.	UNDERDRAIN
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VAR.	VARIES OR VARIABLE
V.C.T.	VYNIL COMPOSITION TILE
VERT.	VERTICAL
W	WEST
W.	WIDE
W/	WITH
WD.	WOOD
WDW.	WINDOW
W/O	WITHOUT
W.P.	WORKING POINT
W.S.	WEATHERSTRIP
WSCT.	WAINSCOT
WT.	WEIGHT
&	AND
∠	ANGLE
@	AT
[	CHANNEL
⌀	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	165	531

NOTES:

1) ABBREVIATIONS AND SYMBOLS SHOWN ON THIS SHEET APPLY TO ALL A, AO, AN, AC, AA AND AT DRAWINGS

DATE	REVISION

ORIGINAL PLAN | NOTE BOOK NO. | SURVEY PLOTTED BY | DRAWN BY DAND | TRACED BY DAND | DESIGNED BY | QUANTITIES BY | CHECKED BY C.PREY | DATE

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

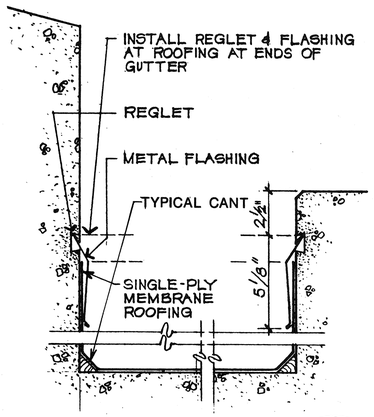
ARCHITECTURAL ABBREVIATIONS STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: NONE DATE: JUN 1990

SHEET NO. A1 OF 9 SHEETS

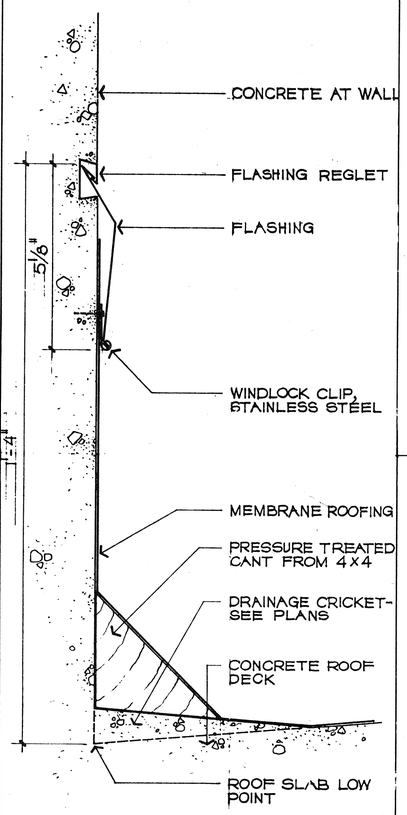
2410V142 2410: V142 AS0064.FGB;1 19DEC89-18.27.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	166	531



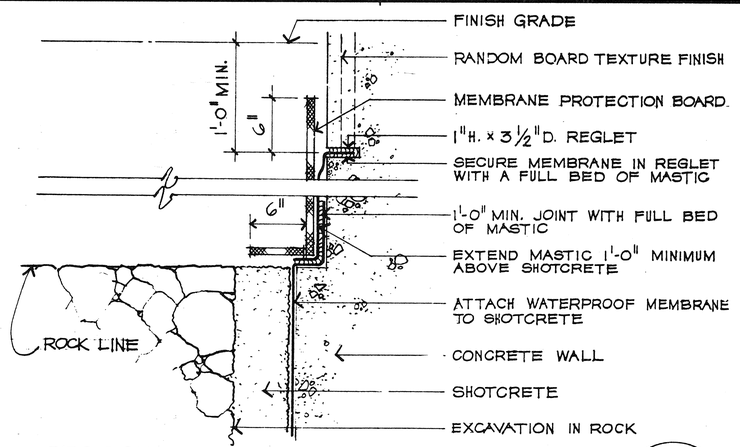
SECTION AT GUTTER 1

SCALE: 3"=1'-0"



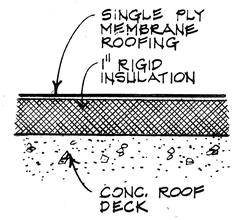
SECTION-TYP. ROOF & FLASHING 8

SCALE: HALF SIZE



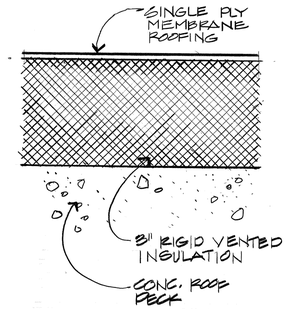
SECTION - WATERPROOF MEMBRANE AT WALL 4

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



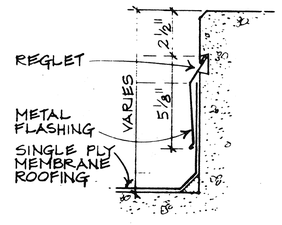
SECTION-TYP. ROOFING 5

SCALE: HALF SIZE



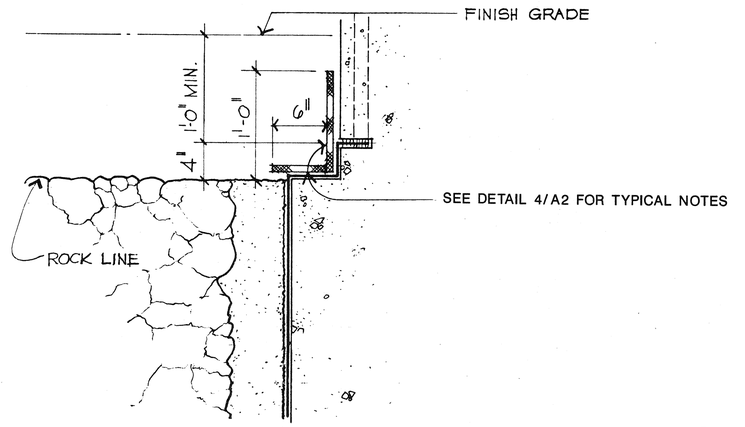
SECTION-TYP. ROOFING 6

SCALE: HALF SIZE



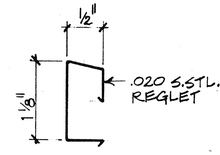
SECTION AT ROOF CURB AND PARAPET 7

SCALE: 3"=1'-0"



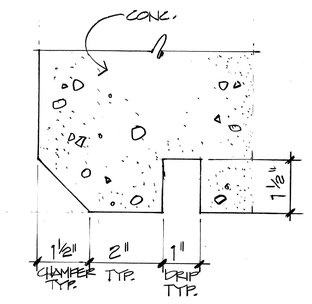
SECTION - WATERPROOF MEMBRANE AT ROCK LINE 10

SCALE: 1-1/2"=1'-0" (CONDITION AT MINIMUM PLACEMENT OF FILL)



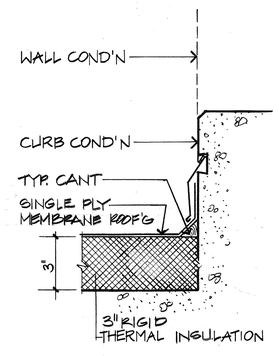
TYP. REGLET PROFILE 11

SCALE: FULL SIZE



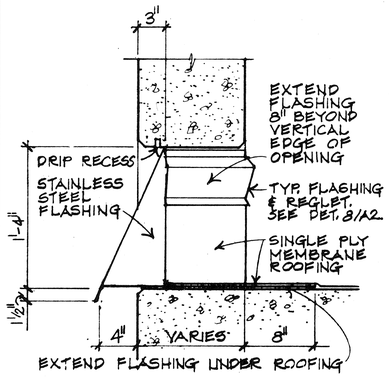
TYP. DRIP @ CONC. 12

SCALE: HALF SIZE



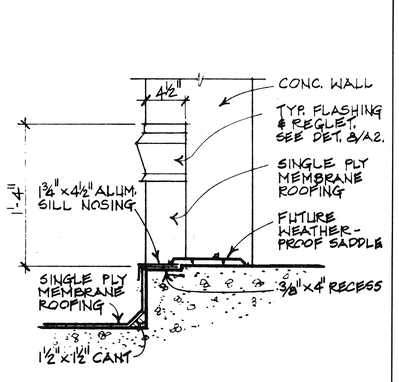
FLASHING AT THERMAL INSULATION 13

SCALE: 3"= 1'-0"



SECTION - TYP. SCUPPER 14

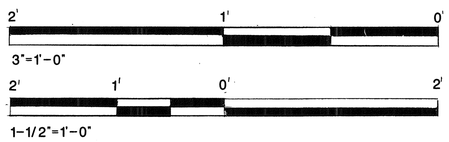
SCALE: 1-1/2"=1'-0"



SECTION - TYP. ROOF DOOR SILL 15

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

GRAPHIC SCALES:



ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROOF & MISCELLANEOUS DETAILS STANDARDS

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(64)

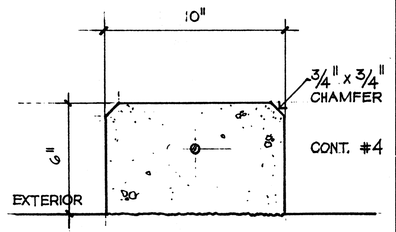
SCALE: AS NOTED DATE: JUN 1990

SHEET NO. A2 OF 9 SHEETS

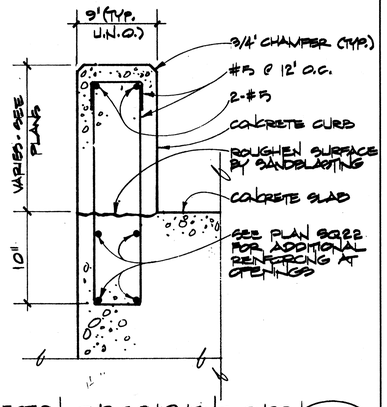
DESIGNED	DRAWN	TRACED	CHECKED	QUANTITIES
K. FURUKE	R. HOWELL		L. FREY	

ORIGINAL PLANS — MODIFIED PLANS — AS BUILT

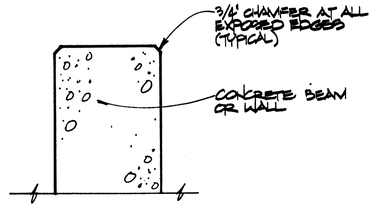
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	167	531



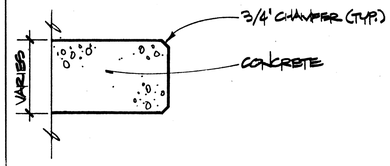
SECTION-TYP. CONC. CURB (1)
SCALE: 3"=1'-0"



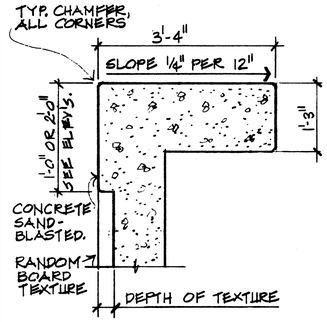
SECTION-TYP. EQUIPMENT CURB (2)
SCALE: 1-1/2"=1'-0"



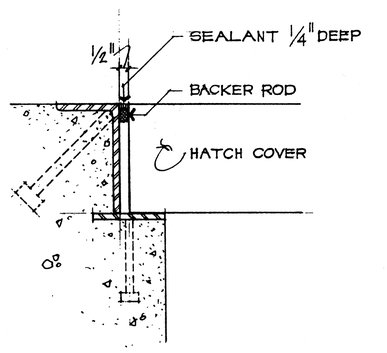
SECTION-TYP. CHAMFER AT BEAM OR WALL (3)
SCALE: 1-1/2"=1'-0"



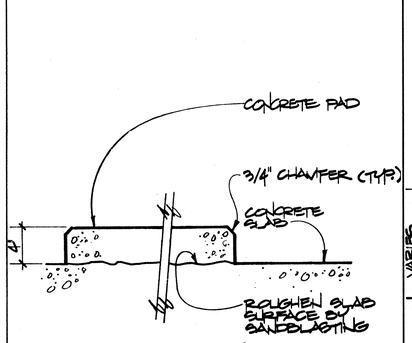
PLAN-TYPICAL OPENING (4)
SCALE: 1-1/2"=1'-0"



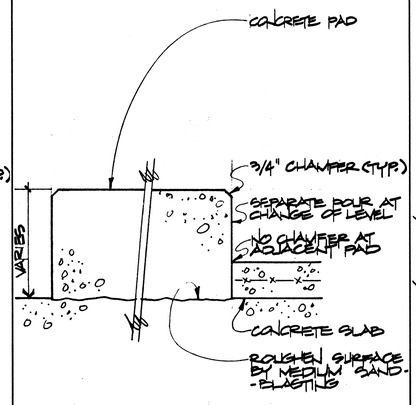
SECTION-WALL CAP (5)
SCALE: 3/4"=1'-0"



SECTION-FLOOR SEAL (7)
SCALE: 3"=1'-0"



SECTION-TYP. CONC. PAD (8)
SCALE: 1-1/2"=1'-0"



SECTION-TYP. CONC. PAD (9)
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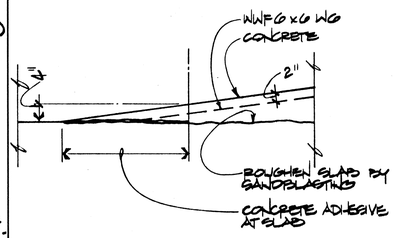
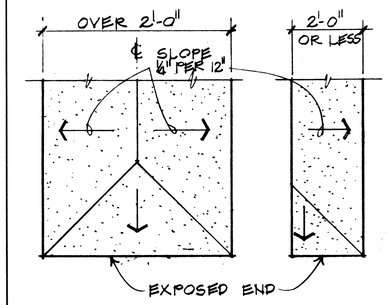
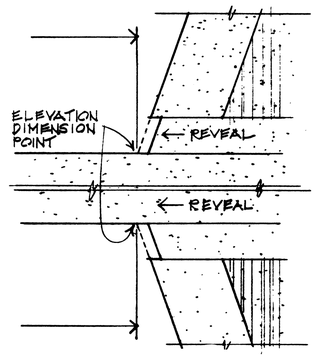


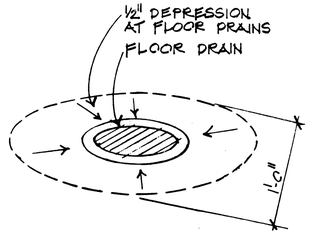
SECTION-TAPERED EDGE OF CONCRETE PAD (10)
SCALE: 3/4"=1'-0"



PLAN-TYP. PARAPET/WALL (11)
SCALE: NOT TO SCALE

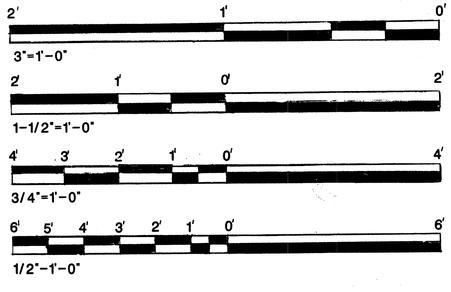


ELEV. DIMENSION POINT (12)
SCALE: 1/2"=1'-0"



TYP. SLAB AT FLR. DRAIN (15)
SCALE: NOT TO SCALE

GRAPHIC SCALES:



ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONCRETE DETAILS

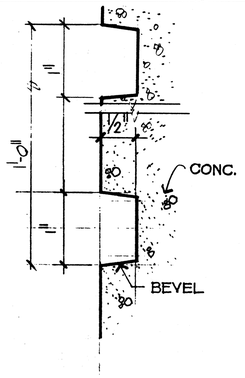
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

SHEET NO. A3 OF 9 SHEETS

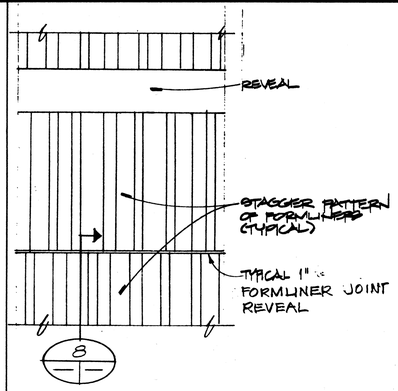
ORIGINAL PLAN	
SHEET PREPARED BY	DATE
DRAWN BY K. BURKE	JUN 90
DESIGNED BY R. HOWELL	JUN 90
QUANTITIES BY	
CHECKED BY S. FREY	JUN 90
SHEET NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	168	531



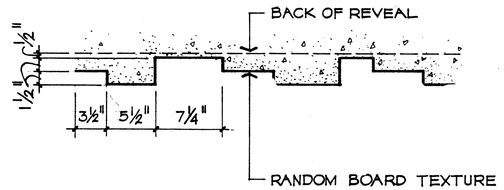
SECTION - TYP. 1" REVEAL (1)

SCALE: FULL SIZE



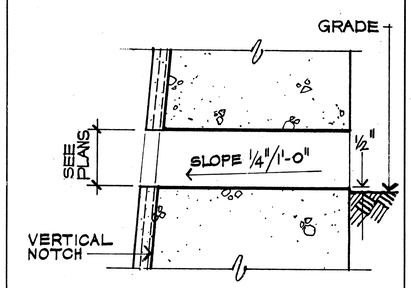
ELEVATION - RANDOM BOARD TEXTURE (2)

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

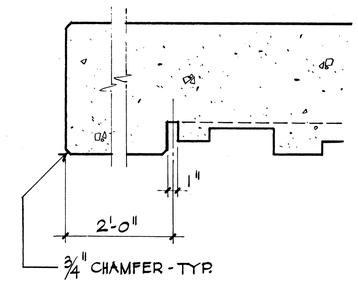


PLAN AT RANDOM BOARD TEXTURE (4)

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

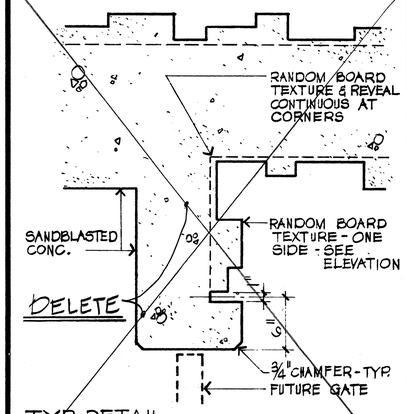


SECTION



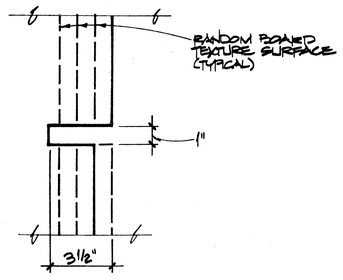
PLAN DETAIL AT EXPLOR. TUNNEL (6)

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



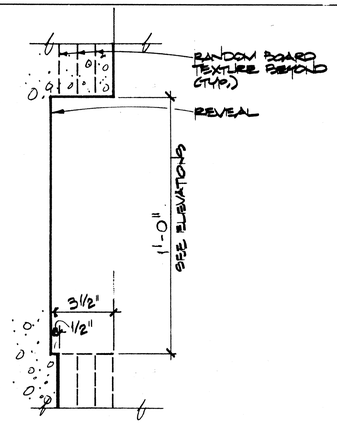
TYP. DETAIL AT SUBSTA. ENCLOSURE (7)

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



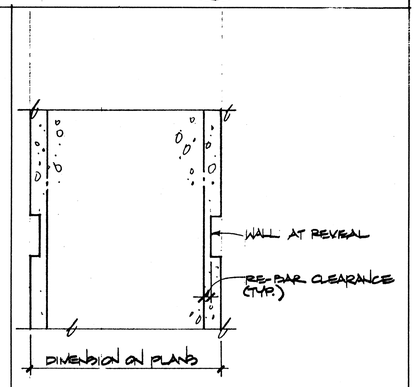
SECTION - TYPICAL FORMLINER JOINT (8)

SCALE: 3"=1'-0"



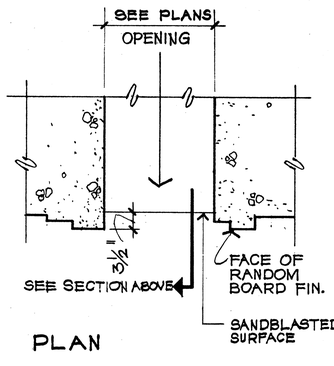
SECTION - TYP. REVEAL (9)

SCALE: 3"=1'-0"



SECTION AT TYP. WALL (10)

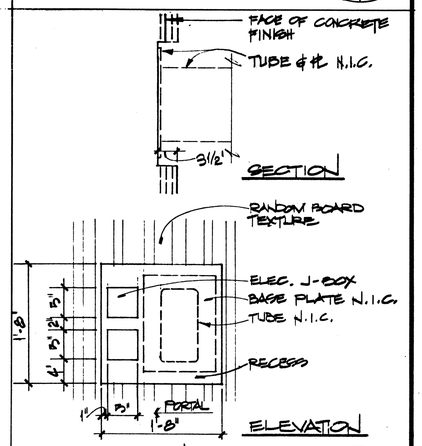
SCALE: 1/2"=1'-0"



PLAN

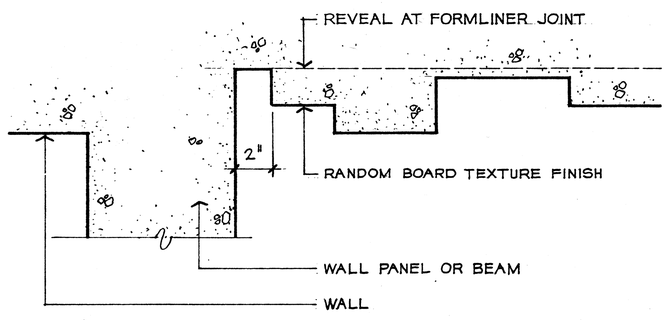
DETAILS - DRAINAGE OUTLET (11)

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



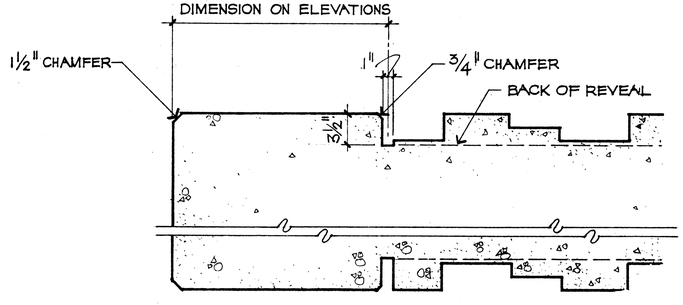
DETAILS - SIGN SUPPORT (12)

SCALE: 1"=1'-0"



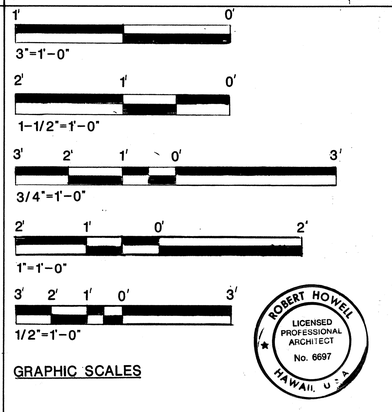
PLAN DETAIL - REVEAL AT LOADING DOCK (14)

SCALE: 3"=1'-0"



PLAN DETAIL - EXTERIOR WALL (HEAD SIM.) (16)

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



GRAPHIC SCALES

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

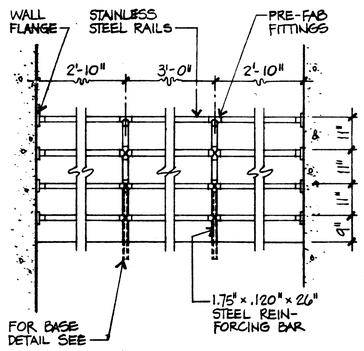
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS
DETAILS - I
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

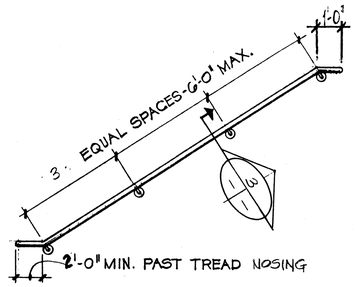
SCALE: AS NOTED DATE: JUN 1990

SHEET NO. A4 OF 9 SHEETS

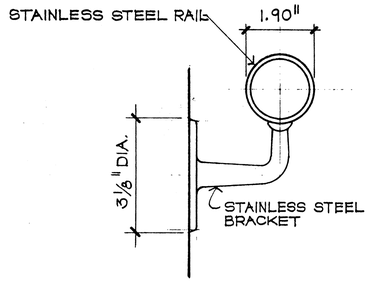
	ORIGINAL PLAN	NOTE BOOK
SURVEY PERFORMED BY		
DRAWN BY	K. BURKE	
DESIGNED BY	R. HOWELL	
QUANTITIES BY		
CHECKED BY	E. EBERT	
DATE	2JAN 90	2JAN 90 / 22JUN 90



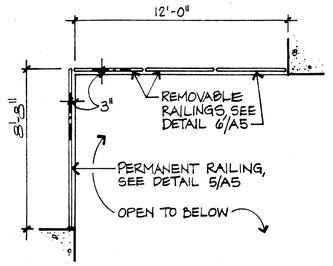
ELEVATION - RAILING 1
SCALE: ½" = 1'-0"



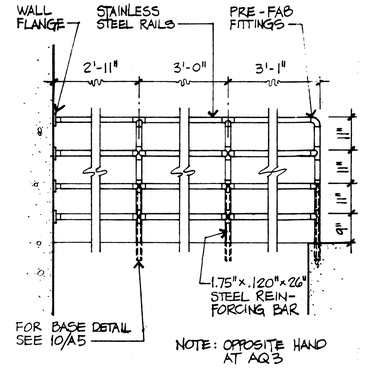
ELEVATION - TYP. RAIL AT WALL 2
SCALE: NOT TO SCALE



TYPICAL RAIL BRACKET 3
SCALE: 6"=1'-0"

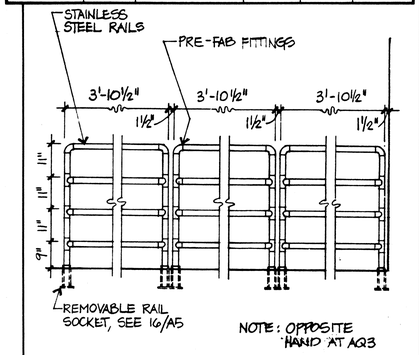


PLAN - RAILING 4
SCALE: ¼" = 1'-0"

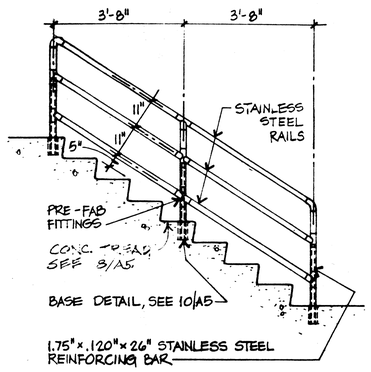


ELEVATION - RAILING 5
SCALE: ½" = 1'-0"

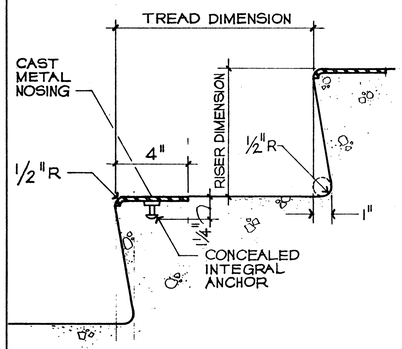
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	169	531



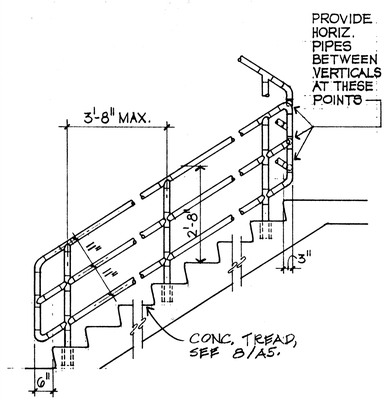
ELEVATION - RAILING 6
SCALE: ½" = 1'-0"



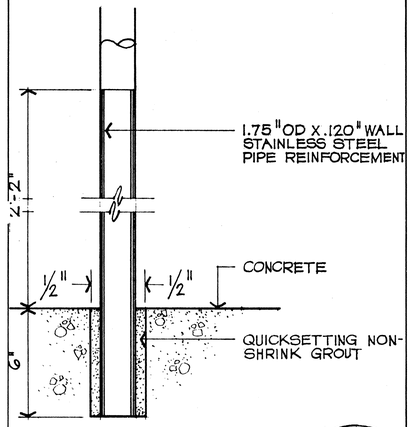
ELEVATION - RAILING 7
SCALE: ½" = 1'-0"



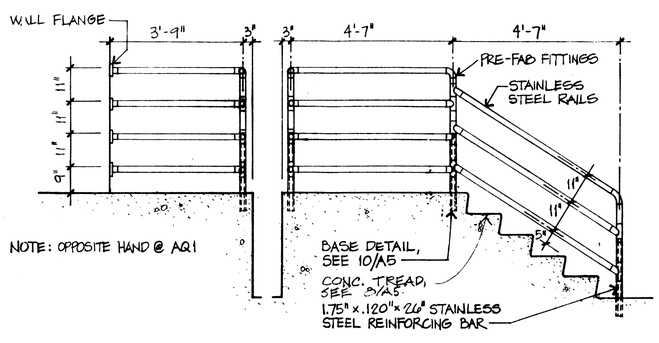
SECTION - TYP. CONC. STAIR 8
SCALE: 3"=1'-0"



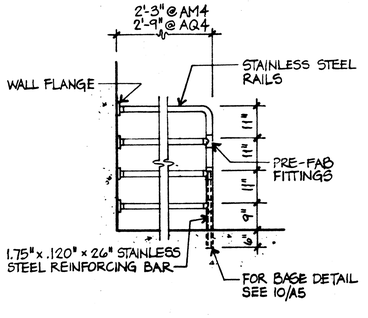
ELEVATION - TYP. RAILING 9
SCALE: 1/2"=1'-0"



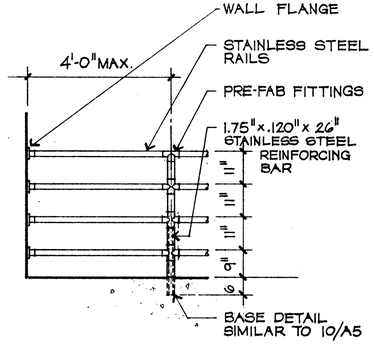
SECTION: TYPICAL POST 10
SCALE: 3"=1'-0"



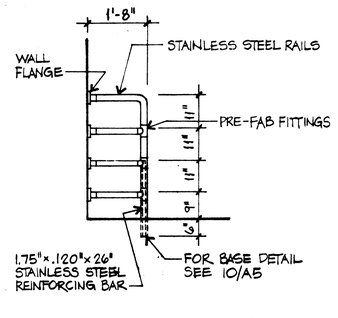
ELEVATION - RAILING 12
SCALE: ½" = 1'-0"



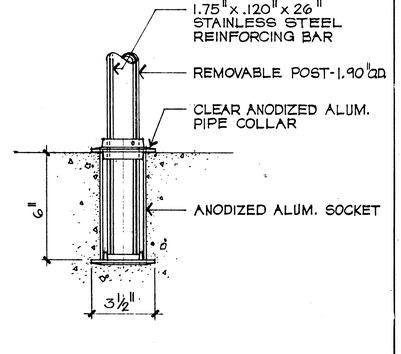
ELEVATION - RAILING 13
SCALE: ½" = 1'-0"



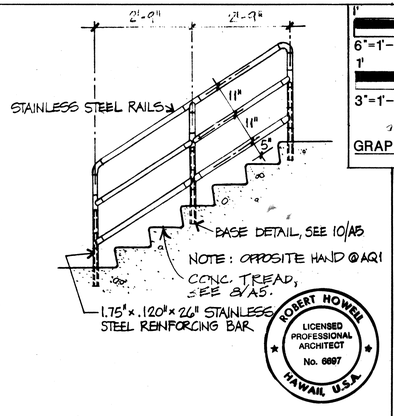
ELEVATION - TYPICAL RAIL 14
SCALE: 1/2"=1'-0"



ELEVATION - RAILING 15
SCALE: ½" = 1'-0"



SECTION - REMOVABLE RAIL SOCKET AND COLLAR 16
SCALE: 3"=1'-0"



ELEVATION 17
SCALE: 1/2"=1'-0"

1" 0
6"=1'-0"
1' 0'
3"=1'-0"
2' 1' 0' 2
1/2"=1'-0"
4' 2' 1' 0' 4'
1/4"=1'-0"
GRAPHIC SCALES

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS - 2
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

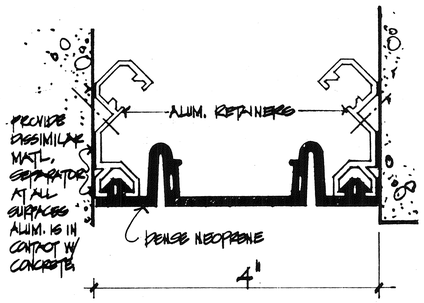
SCALE: AS NOTED DATE: JUN 1990
SHEET NO. A5 OF 9 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

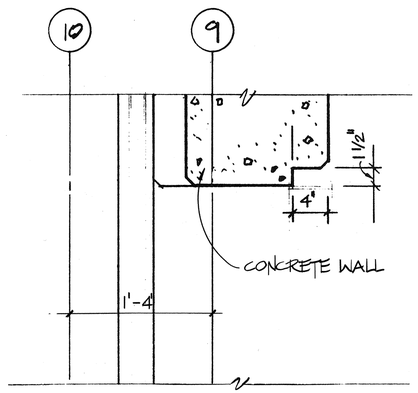
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

ORIGINAL PLANS	SURVEY PERFORMED	K. DUESE	15 JAN 90
	DRAWN BY		
NOTE BOOK	DESIGNED BY	R. HOWELL	JAN 90
	QUANTITIES BY		
No.	CHECKED BY	C. FREY	22 JAN 90

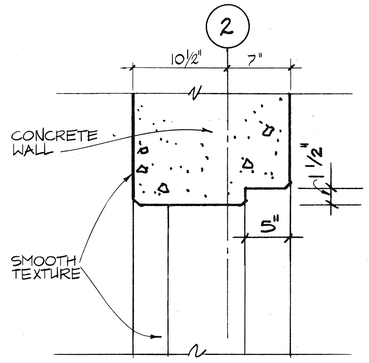
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	170	531



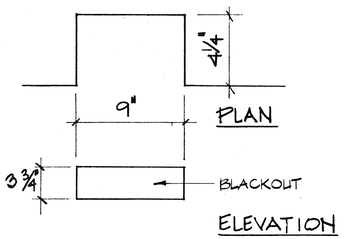
EXPANSION JOINT (1)
SCALE: FULL SIZE

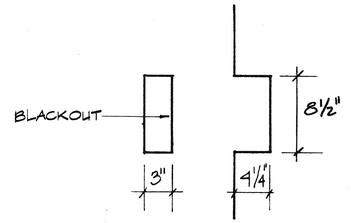


HEAD DETAIL (2)
SCALE: 1½"=1'-0"

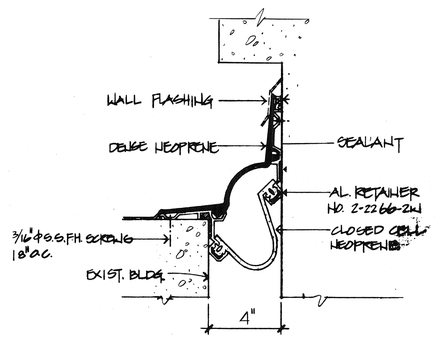


HEAD DETAIL (3)
SCALE: 1½"=1'-0"

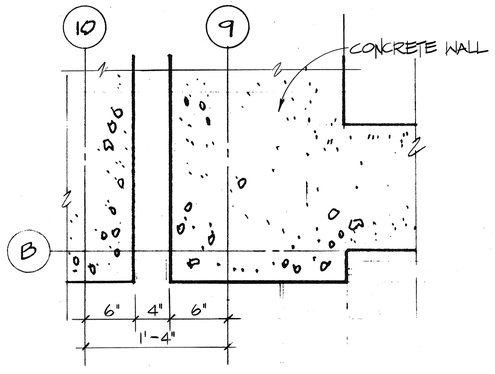




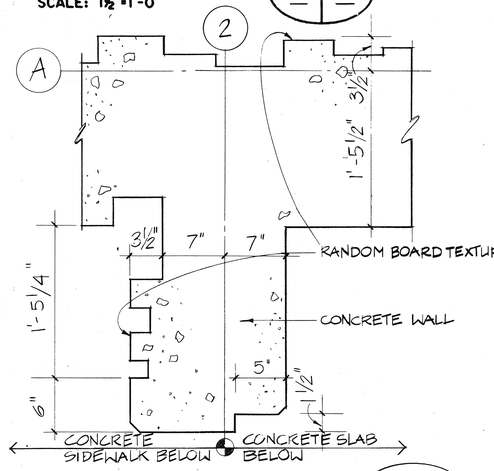
ELEVATOR CONTROL BLOCKOUTS (5)
SCALE: 1½"=1'-0"



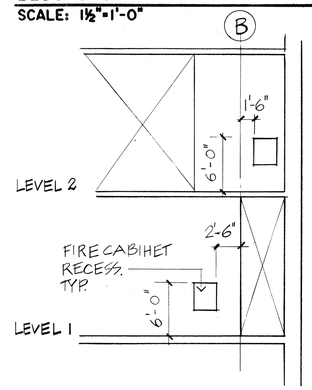
EXPANSION JOINT (6)
SCALE: 3"=1'-0"



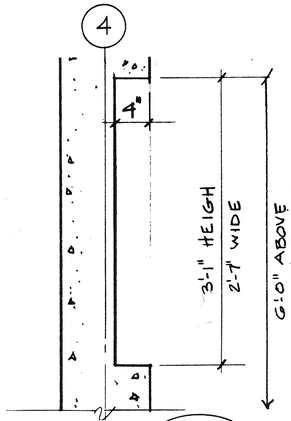
PLAN AT EXPANSION JOINT (7)
SCALE: 1½"=1'-0"



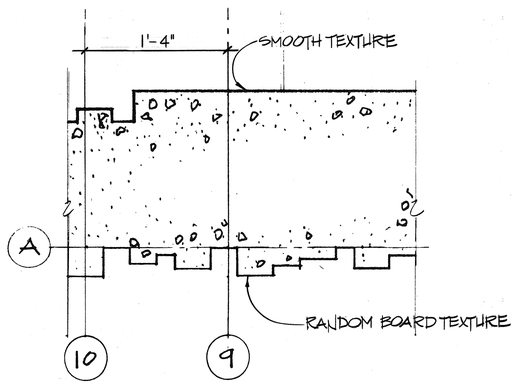
PLAN AT ENTRANCE DOOR (8)
SCALE: 1½"=1'-0"



FIRE HOSE CABINET BLOCKOUTS
SCALE: 1½"=1'-0"



(10)



PLAN AT ENTRANCE DOOR (12)
SCALE: 1½"=1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY E.GIBBONS	22 JAN 90
TRACED BY	
DESIGNED BY R. HOWELL	22 JAN 90
QUANTITIES BY	
CHECKED BY C. FREY	23 JAN 90

ORIGINAL PLAN | NOTE BOOK | No.

GRAPHIC SCALES

2' 1' 0'
3"=1'-0"

6' 5' 4' 3' 2' 1' 0' 6'
1/2"=1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

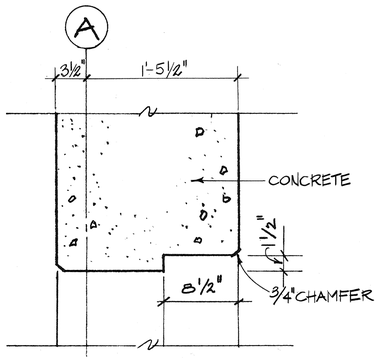
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS - 3
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

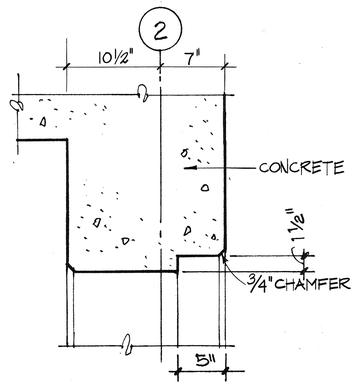
SCALE: AS NOTED DATE: JUN 1990

SHEET NO. A6 OF 9 SHEETS

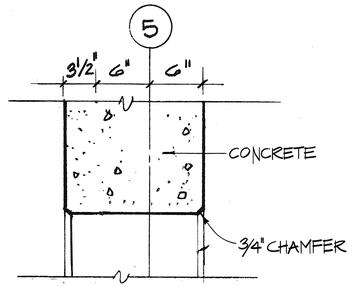
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	171	531



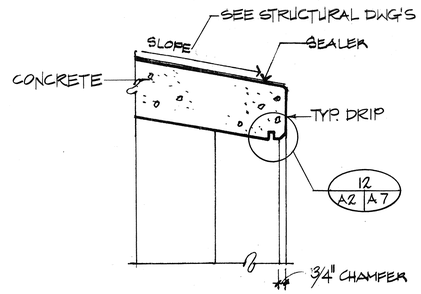
WINDOW HEAD
SCALE: 1½"=1'-0"
1 / A7



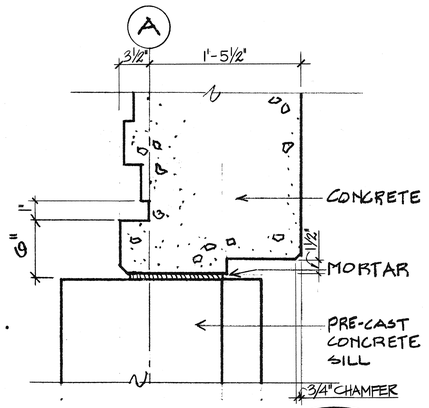
WINDOW HEAD
SCALE: 1½"=1'-0"
2 / A7



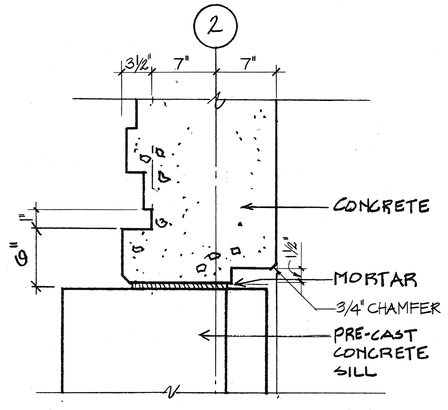
LOUVER HEAD
SCALE: 1½"=1'-0"
3 / A7



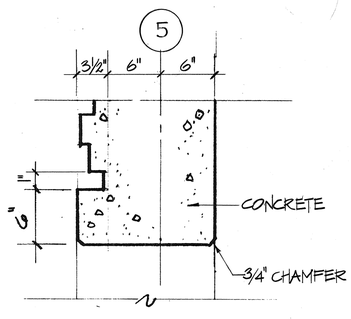
HEAD AT ROOF VENT
SCALE: 1½"=1'-0"
4 / A7



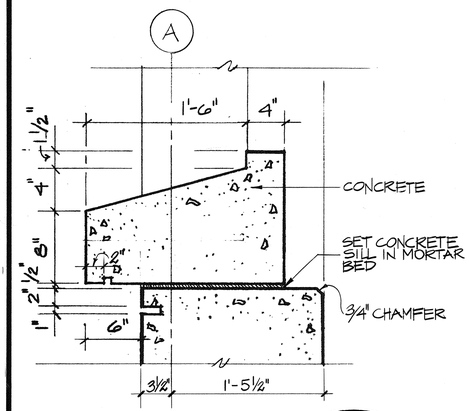
WINDOW JAMB
SCALE: 1½"=1'-0"
6 / A7



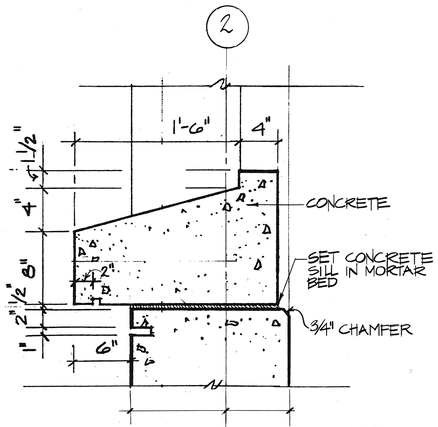
WINDOW JAMB
SCALE: 1½"=1'-0"
7 / A7



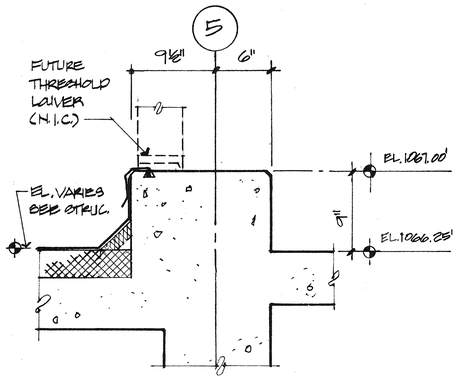
LOUVER JAMB
SCALE: 1½"=1'-0"
8 / A7



WINDOW SILL
SCALE: 1½"=1'-0"
11 / A7



WINDOW SILL
SCALE: 1½"=1'-0"
12 / A7



LOUVER SILL
SCALE: 1½"=1'-0"
13 / A7

GRAPHIC SCALE:

6' 5' 4' 3' 2' 1' 0' 6'

1/2"=1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert S. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS -4

STANDARDS

INTERSTATE ROUTE H-3

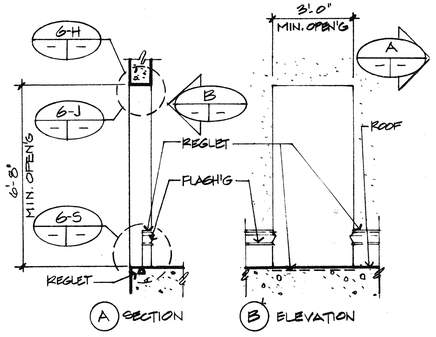
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

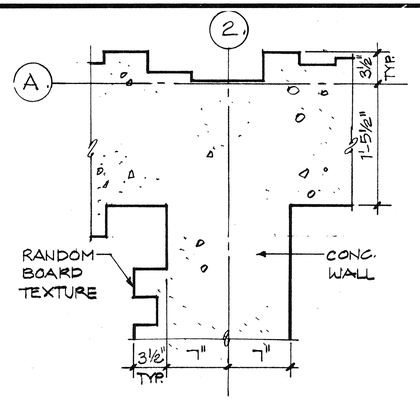
SHEET NO. A7 OF 9 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 23JAN92
	DRAWN BY E. GIBBONS	23JAN92
NOTE BOOK	TRACED BY	
	DESIGNED BY R. HOWELL	23JAN92
No.	QUANTITIES BY	
	CHECKED BY C. PREY	24JAN92

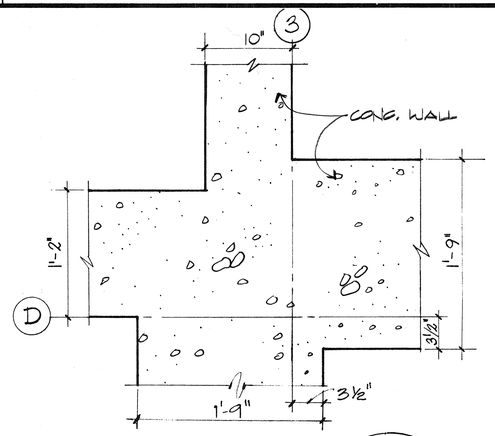
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	172	531



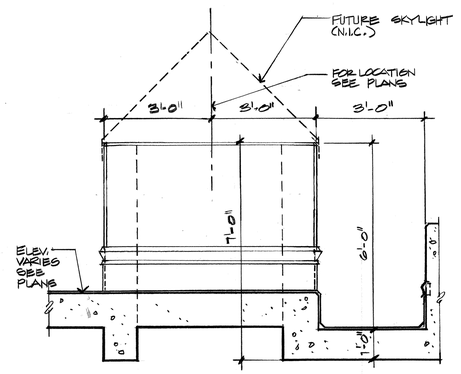
ROOF DOOR TO PLANTER — 1
SCALE: 3/8"=1'-0"



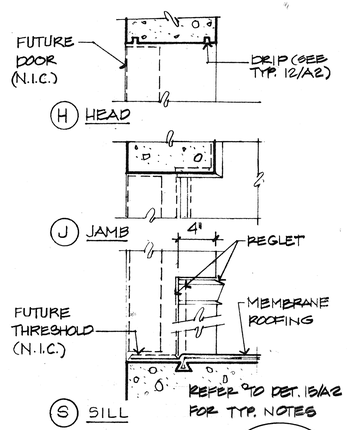
PLAN DETAIL OF EXTERIOR WALL — 2
SCALE: 1 1/2"=1'-0"



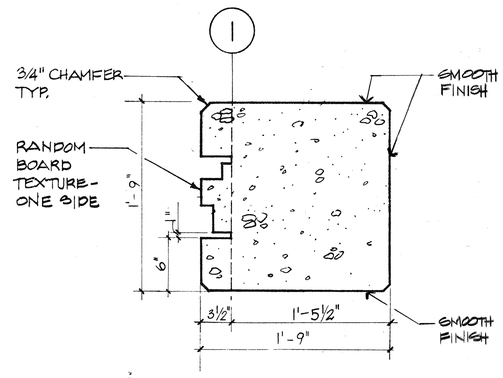
WALL INTERSECTION — 3
SCALE: 1 1/2 "=1'-0"



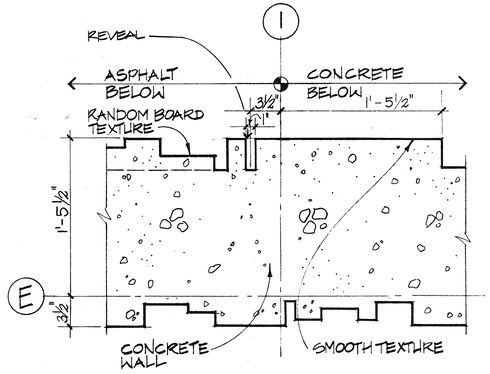
CURB @ SKYLIGHT @ ROOF — 4
SCALE: ½" = 1'-0"



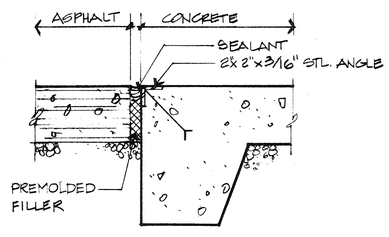
DETAILS OF ROOF DOOR — 6
SCALE: 1 1/2"= 1'-0"



PLAN OF COLUMN @ GARAGE — 7
SCALE: 1 1/2"=1'-0"



PLAN DETAIL OF EXTERIOR WALL — 12
SCALE: 1 1/2"=1'-0"



TRANSITION OF ASPHALT TO CONCRETE — 13
SCALE: 1 1/2"=1'-0"

GRAPHIC SCALE

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

1' 0 1' 2' 4'
3/8"=1'-0"

SURVEY PLOTTED BY L. OSTER — DATE DEC '89
DRAWN BY C. FREY — DATE DEC '89
TRACED BY — DATE
DESIGNED BY V. KOCAK — DATE DEC '89
PROJECT ENGINEER — DATE
QUANTITIES BY — DATE
CHECKED BY — DATE
ORIGINAL PLAN
NOTE BOOK — No.

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS - 5

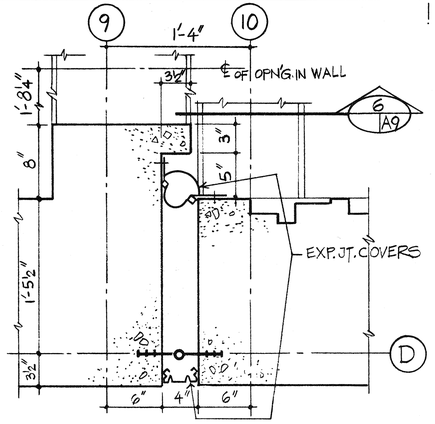
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED — DATE: JUN 1990

SHEET A8 OF 9 SHEETS

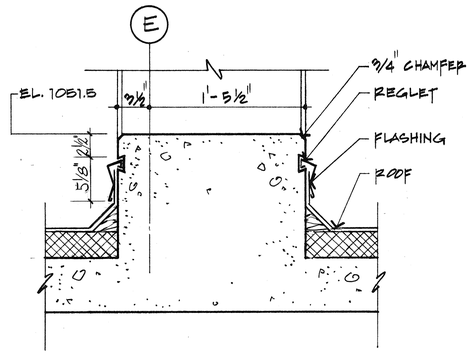
172

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(64)	1990	173	531



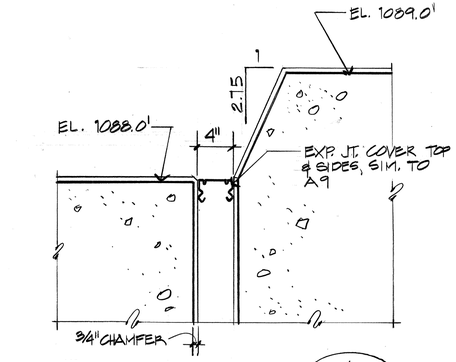
EXPANSION JOINT PART PLAN
SCALE: 1 1/2"=1'-0"

1 — —

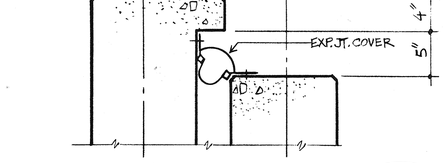


ROOF STEP DETAIL
SCALE: 1 1/2"=1'-0"

2 — —

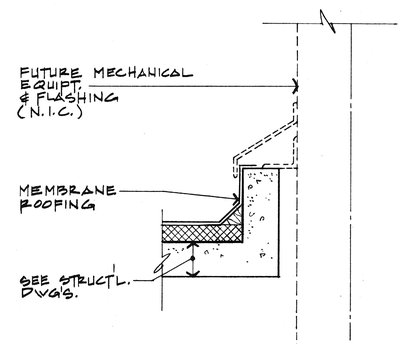


4 — —



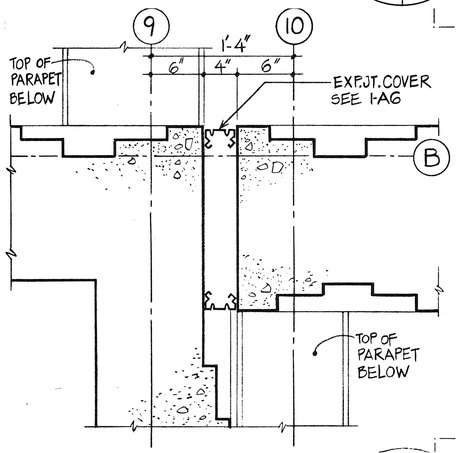
SECTION @ EXPANSION JOINT
SCALE: 1 1/2"=1'-0"

6 — —



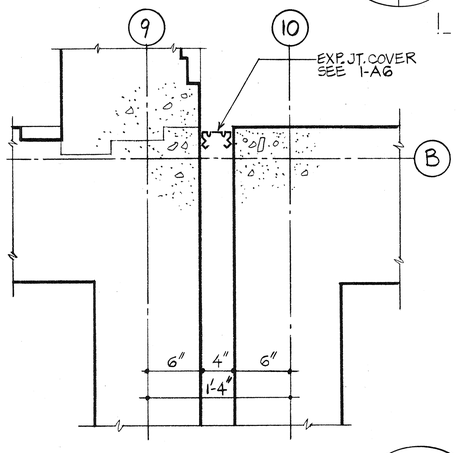
ROOF CURB FOR MECHANICAL EQUIPMENT
NO SCALE

7 — —



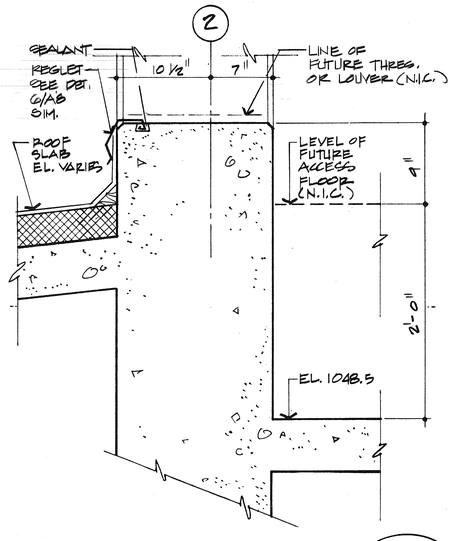
EXPANSION JOINT PART PLAN
SCALE: 1 1/2"=1'-0"

11 — —



EXPANSION JOINT PART PLAN
SCALE: 1 1/2"=1'-0"

12 — —



SILL @ FUTURE DOOR
SCALE: 1 1/2"=1'-0"

13 — —

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 6 JUN 90
	DRAWN BY V. MOCAK	
NOTE BOOK	DESIGNED BY V. MOCAK	14 JUN 90
	QUANTITIES BY	
No.	CHECKED BY C. PREY	29 JUN 90

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

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS - 6

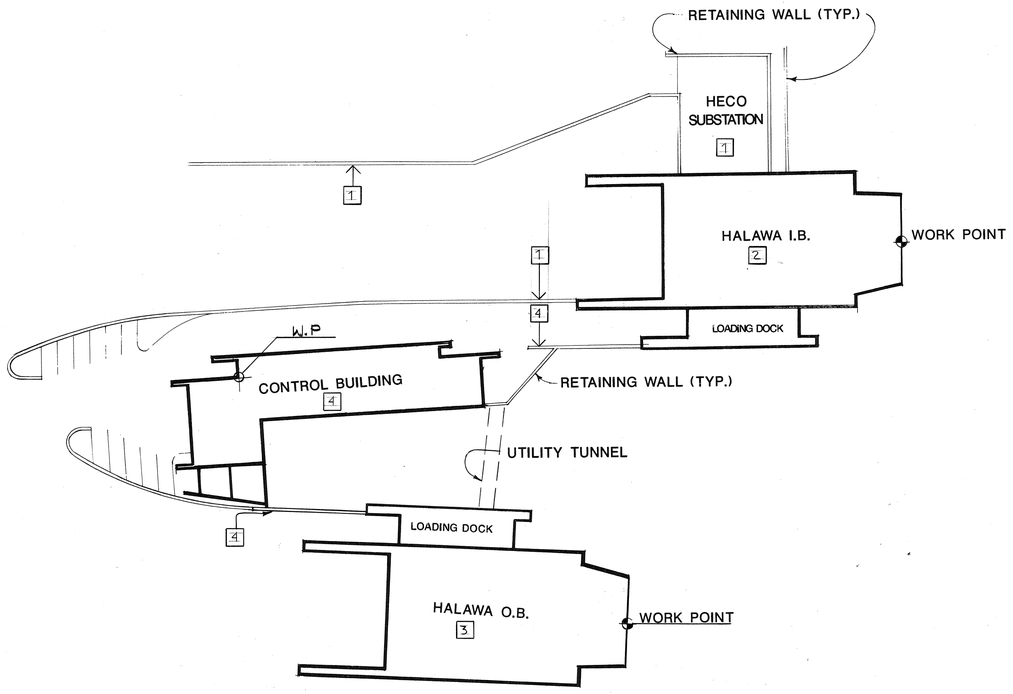
STANDARDS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

SHEET A9 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(64)	1990	174	531

N



HALAWA APPROACH

GENERAL NOTES

1. FOR HECO SUBSTATION AND RETAINING WALLS, REFER TO SHEET NO. AA2 AND AA3
2. FOR HALAWA I.B. REFER TO SHEET NO. AN1 THRU AN21
3. FOR HALAWA O.B. REFER TO SHEET NO. AO1 THRU A021
4. FOR HALAWA CONTROL BUILDING, REFER TO SHEET NO. AC1 THRU AC12

ORIGINAL PLAN		DATE
SURVEY PLOTTED BY		
DRAWN BY	[illegible]	JUN 90
TRACED BY	[illegible]	JUN 90
DESIGNED BY	[illegible]	JUN 90
QUANTITIES BY	[illegible]	JUN 90
CHECKED BY	[illegible]	JUN 90
NOTE BOOK		
No.		

GRAPHIC SCALE

40' 0 40' 80'

1"=40'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEY PLAN

HALAWA APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

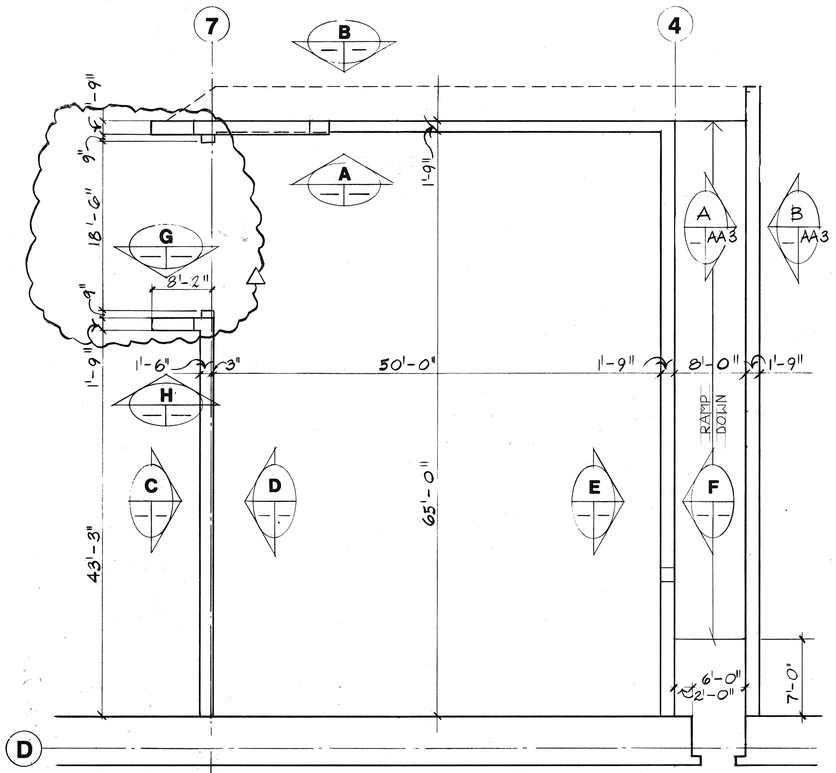
SCALE: 1"=40'-0" DATE: JUN 1990

SHEET AA1 OF 3 SHEETS

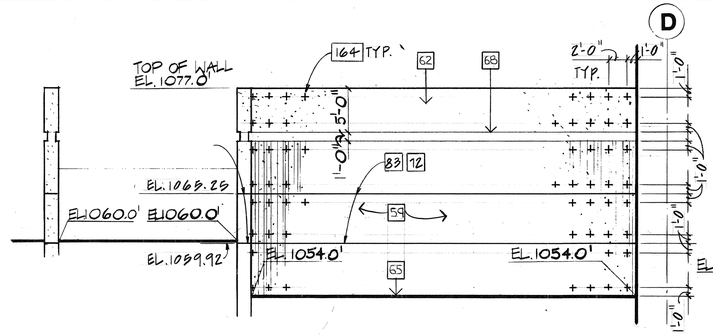
61

174

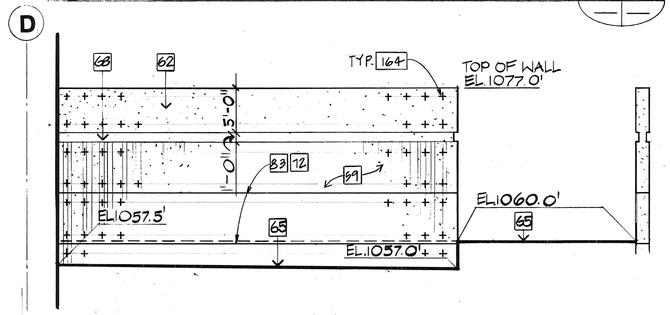
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(64)	1990	175	531



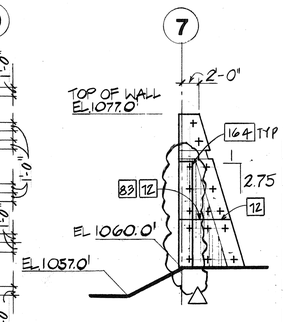
PLAN



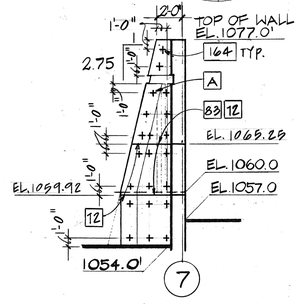
ELEVATION C



ELEVATION D
SCALE: 1/8"=1'-0"



ELEVATION G
SCALE: 1/8"=1'-0"



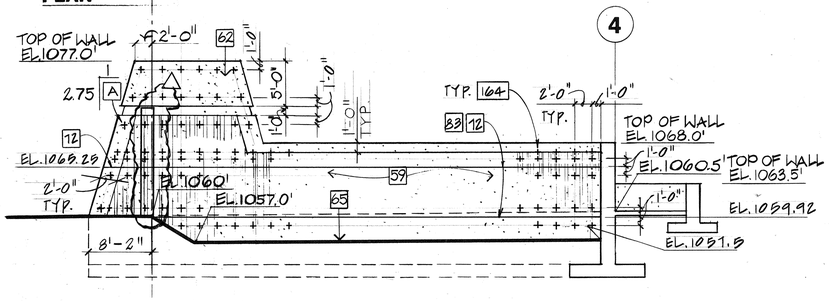
ELEVATION H
SCALE: 1/8"=1'-0"

KEYED NOTES

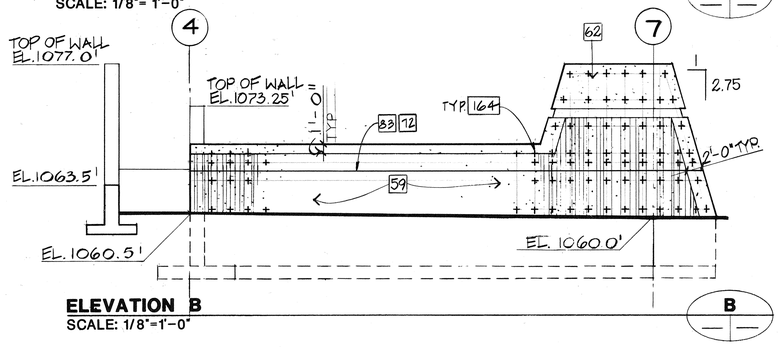
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
68	TYPICAL REVEAL, SEE 9/A4
72	POUR JOINT
83	FORMLINE JOINT, SEE 8/A4
164	FORM TIE

NOTES:

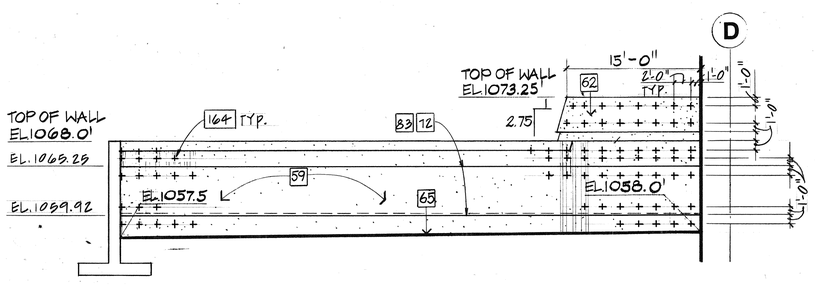
A. AT SLOPING LEADING EDGES, PLACE FORM TIES 1'-0" FROM FACE.
B. FORM TIES SHALL ALIGN VERTICALLY AND HORIZONTALLY.
C. SLOPING LEADING EDGES SHALL HAVE POUR JOINTS WHERE SHOWN. (NO 1" REVEALS AT THESE LOCATIONS OF NON-TEXTURED CONCRETE.)



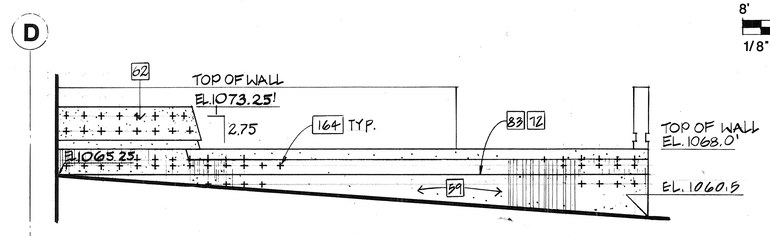
ELEVATION A
SCALE: 1/8"= 1'-0"



ELEVATION B
SCALE: 1/8"=1'-0"



ELEVATION E
SCALE: 1/8"= 1'-0"



ELEVATION F
SCALE: 1/8"=1'-0"

GRAPHIC SCALE
8' 4' 0 8'
1/8"=1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION
6/13/94	INDICATED LOCATION OF GATE STUB
	WALLS PER DCN 64-069
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

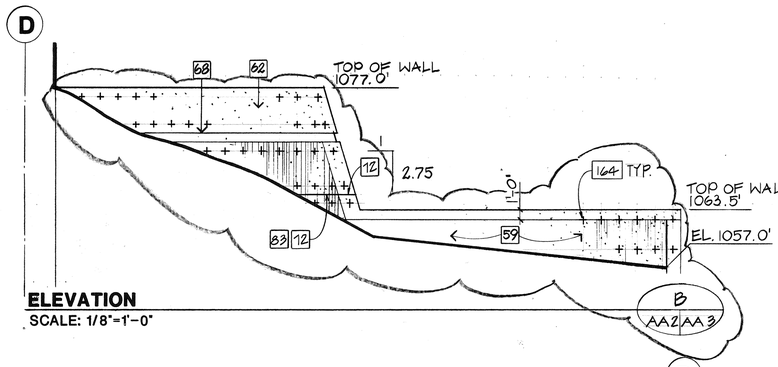
HECO SUBSTATION
PLAN AND ELEVATIONS
HALAWA APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

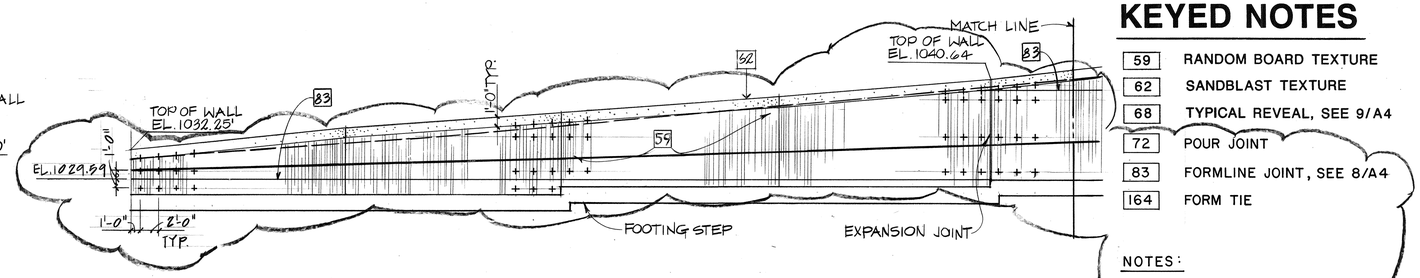
SHEET AA2 OF 3 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	JUN 90
	DRAWN BY L.OZEE	
NOTE BOOK	DESIGNED BY L.OZEE	JUN 90
	QUANTITIES BY	
No.	CHECKED BY C.FOLEY	JUN 90

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	176	531



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

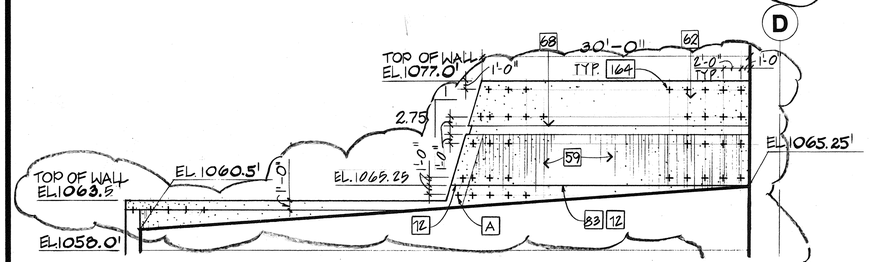


KEYED NOTES

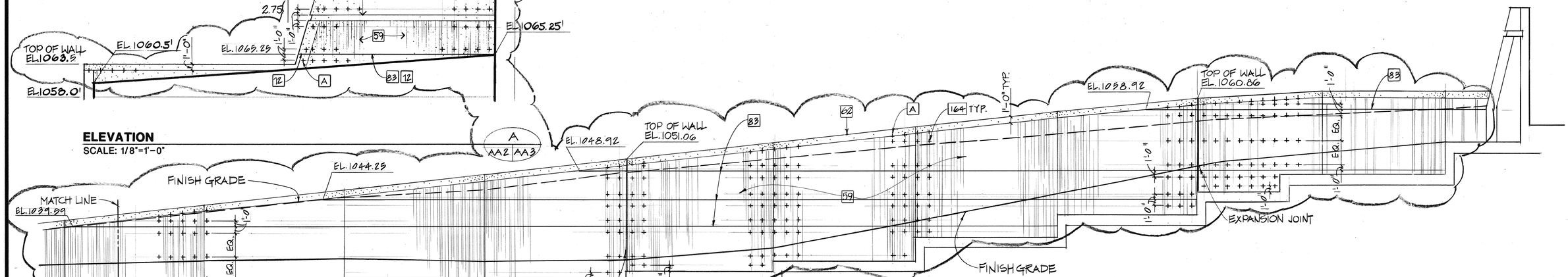
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
68	TYPICAL REVEAL, SEE 9/A4
72	POUR JOINT
83	FORMLINE JOINT, SEE 8/A4
164	FORM TIE

NOTES:

A. SEE NOTES SHEET NO. AA2.

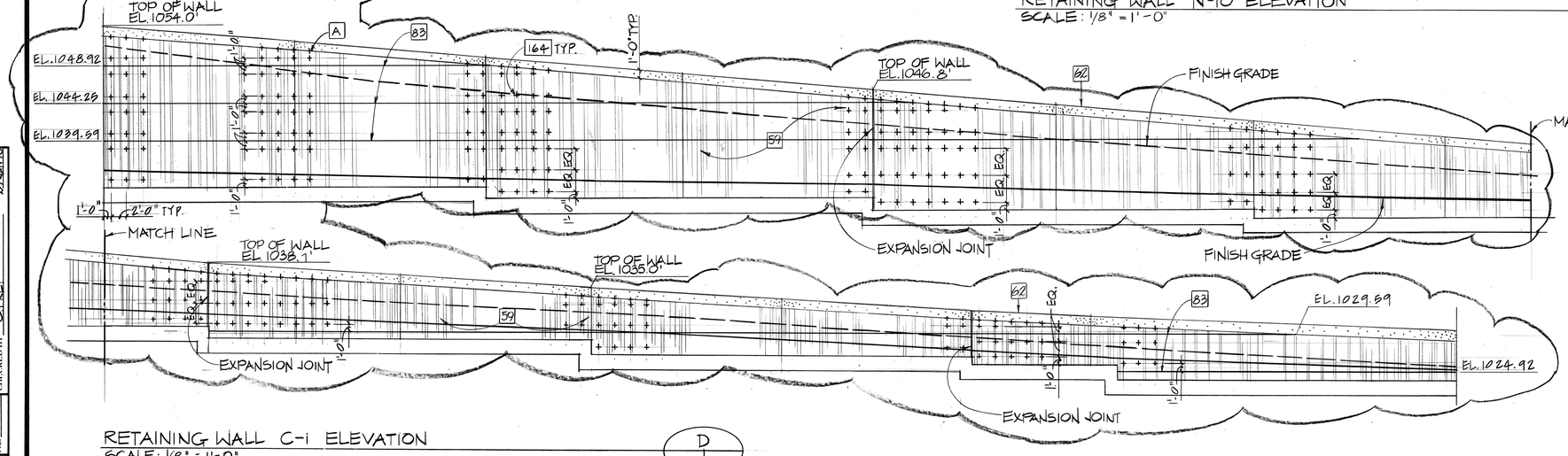


ELEVATION
SCALE: 1/8"=1'-0"



RETAINING WALL N-10 ELEVATION
SCALE: 1/8" = 1'-0"

C



RETAINING WALL C-1 ELEVATION
SCALE: 1/8" = 1'-0"

D

GRAPHIC SCALE
8' 4' 0 8' 16'
1/8"=1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELEVATIONS AT RETAINING WALLS

HALAWA APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET NO. AA3 OF 3 SHEETS

	DATE
SURVEY PLOTTED BY	
DRAWN BY L.SEE	2/90
TRACED BY L.SEE	5/90
DESIGNED BY L.OBE	5/90
QUANTITIES BY	
CHECKED BY C.FREY	6/90

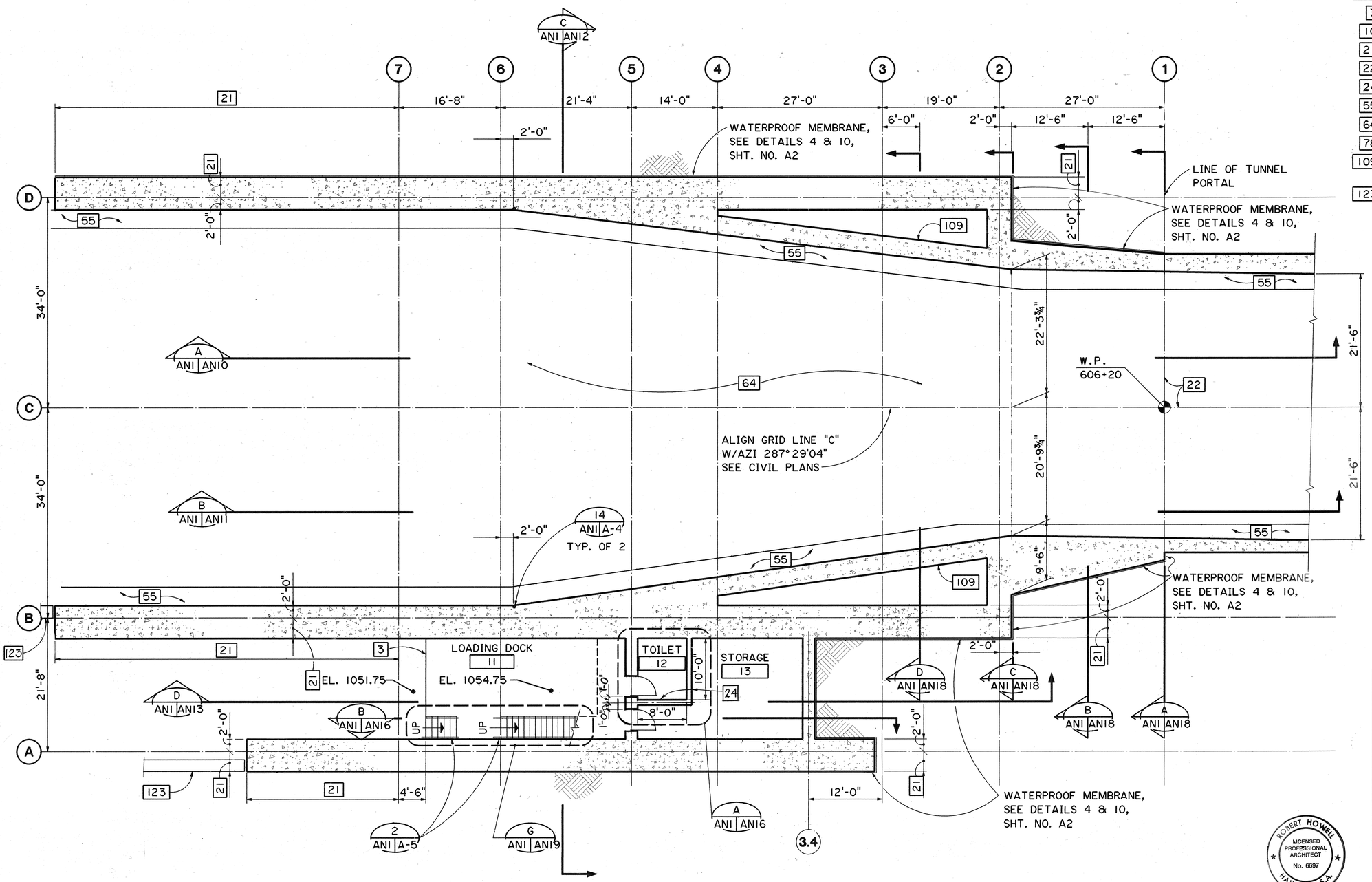
ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	177	531

N

KEYED NOTES:

3	FACE OF LOADING DOCK
10	BARRIER (SEE CIVIL PLANS)
21	SEE ELEVATION FOR DIMENSION
22	GRIDLINES 1-7 ARE ⊥ TO LINE "C"
24	12" WALL
55	SAFETY WALK
64	ROADWAY
78	OPENING 3'-4½" WIDE X 7'-2½" HIGH
109	WALL THICKNESS VARIES, SEE STRUCTURAL PLANS
123	RETAINING WALL, SEE "AC" DRAWINGS



GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. ROOM FINISHES:
   FLOORS-CONCRETE WITH HARDENER
   WALLS-LIGHT SANDBLAST
   CEILING AND BEAMS-LIGHT SANDBLAST

FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL I PLAN

HALAWA PORTAL BUILDING - IB

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. ANI OF 21 SHEETS

LEVEL I PLAN

T.O.C. AT ROADWAY
SEE CIVIL PLANS

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert B. Howell

ORIGINAL PLAN	NOTE BOOK	NO.	DATE
		SURVEY PLOTTED BY	25MAY90
		DRAWN BY CADD	
		TRACED BY	20JAN90
		DESIGNED BY R. HOWELL	
		QUANTITIES BY	21JUN90
		CHECKED BY R. FREY	

2410V141 2410: V141 AS0013.FGB>1 25MAY90-12.13.10

177

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	178	531

GENERAL NOTES

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. AN1 FOR ROOM FINISHES

N

KEYED NOTES

4	RAIL, SEE 14/A5
5	REMOVABLE RAIL, SEE 6/A5
6	CONCRETE CURB
7	FLOOR OPENING ABOVE
11	OVERHEAD MONORAIL CRANE
13	LOUVERS (N.I.C.)
20	SPECIAL ACCESS DOOR TO PLENUM (N.I.C.)
21	SEE ELEVATION FOR DIMENSION
23	12" WALL
24	10" WALL
28	SUPPLY FAN (N.I.C.)
29	ATTENUATOR (N.I.C.)
30	MITER @ CONCRETE DUCT TO MAINTAIN CONSTANT CROSS-SECTION
33	PARAPET
35	PITCH 2" FOR DRAINAGE
45	SLAB TRANSITION FROM CURVED TO FLAT
49	GUTTER
50	4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
57	TAPER 1'-0" TO STRUCTURAL SLAB
62	SANDBLAST TEXTURE
67	SMOOTH FINISH CONCRETE
75	EVEVATOR (N.I.C.)
78	OPENING 3'-4½" WIDE X 7'-2¼" HIGH
80	OPENING 6'-4½" WIDE X 8'-2¼" HIGH
89	OPENING 4'-6" WIDE X 7'-6" HIGH
123	RETAINING WALL, SEE "AC" DRAWINGS
124	EXPANSION JOINT
125	RETAINING WALL - SEE "AA" DRAWINGS
158	OPENING 12'-0" WIDE X 15'-6" HIGH
159	DRAIN TRENCH, SEE MECHANICAL DRAWINGS

PLAN DETAIL @ LINE 3
SCALE: ½"=1'-0"

LEVEL 2 PLAN
T.O.C. EL.=1065.25 U.N.O.

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 2 PLAN

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN2 OF 21 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	22 MAY 90
	TRACED BY	20 JAN 92
NOTE BOOK	DESIGNED BY R. HOWELL	
	QUANTITIES BY	25 JUN 90
NO.	CHECKED BY C. FREY	

2410V141 2410: V141 AS0024.FGB;1 25MAY90-12.26.50

178

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	171	531

N

KEYED NOTES:

4	RAIL, SEE 14/A5
6	CONCRETE CURB
8	RAISED CURB
9	OPENING FOR EXHAUST FAN
11	OVERHEAD MONORAIL CRANE
13	LOUVERS (N.I.C.)
19	REMOVABLE FLOOR PANEL
21	SEE ELEVATION FOR DIMENSION
24	10" WALL
25	8" WALL
28	SUPPLY FAN (N.I.C.)
35	PITCH 2" FOR DRAINAGE
36	OPEN TO BELOW
47	LADDER (N.I.C.)
50	4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
51	DUCT VALLEY
52	ROOF OF DUCTWORK CONCRETE
53	RAISED SLAB + 4.5'
62	SANDBLAST TEXTURE
75	ELEVATOR (N.I.C.)
78	OPENING 3'-4½" WIDE X 7'-2¼" HIGH
87	OPENING 8'-4½" WIDE X 10'-2¼" HIGH
89	OPENING 4'-6" WIDE X 7'-6" HIGH
99	WALL EXTENDS TO DECK ABOVE
118	9" X 2'-0" OPENING TO BELOW
119	2'-6" WIDE X 1'-0" HIGH OPENING ℄ @ 9'-3" A.F.F.
123	RETAINING WALL, SEE "AC" DRAWINGS

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. ANI FOR ROOM FINISHES

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 3 PLAN

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN3 OF 21 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

LEVEL 3 PLAN
T.O.C. EL. = 1085.25 U.N.O.

	ORIGINAL PLAN
SURVEY PLOTTED BY	
DRAWN BY	CADD
TRACED BY	
DESIGNED BY	R. HOWELL
QUANTITIES BY	
CHECKED BY	C. PERRY
DATE	25JAN90 / 29JAN90 / 24JUN90
NOTE BOOK	
NO.	

2410V141 2410: V141 AS0034.FGB;1 25MAY90-12.32.40

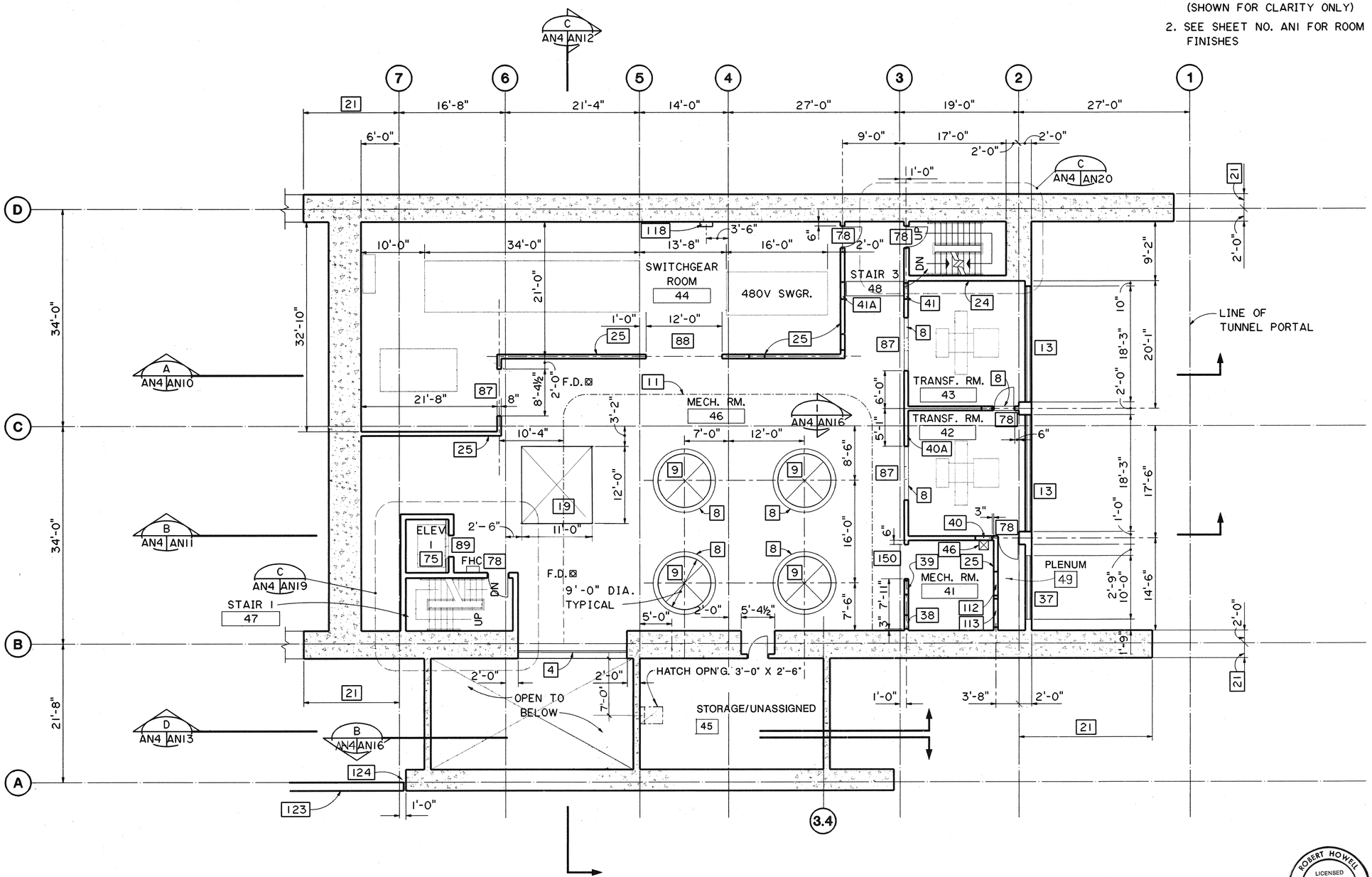
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	180	531

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. AN1 FOR ROOM FINISHES

KEYED NOTES:

4	RAIL, SEE 14/A5
8	RAISED CURB
9	OPENING FOR EXHAUST FAN
11	OVERHEAD MONORAIL CRANE
13	LOUVERS (N.I.C.)
19	REMOVABLE FLOOR PANEL
21	SEE ELEVATION FOR DIMENSION
24	10" WALL
25	8" WALL
37	10'-0" X 10'-0" LOUVER (N.I.C.)
38	2'-6" X 4'-6" OPNG., BOT. @ 7'-9" A.F.F.
39	3'-0" X 2'-0" OPNG., BOT. @ 11'-9" A.F.F.
40	2'-6" X 2'-4" OPNG., TOP @ BOT. OF SLAB ABOVE
40A	3'-0" X 2'-6" OPNG.,TOP AT BOT. OF CONCRETE SLAB ABOVE
41	2'-6" X 2'-6" OPNG., BOT. AT 11'-9" A.F.F.
41A	2'-6" X 2'-6" OPNG.,BOT. AT 12'-3" A.F.F.
42	1'-8" X 1'-6" OPNG.,
45	SLAB TRANSITION FROM CURVED TO FLAT
46	1'-6" X 1'-6" OPENING TO BELOW
49	GUTTER
75	ELEVATOR (N.I.C.)
78	OPENING 3'-4 1/2" WIDE X 7'-2 1/4 HIGH
87	OPENING 8'-4 1/2"WIDE X 10'-2 1/4" HIGH
88	OPENING 12'-0"WIDE X 10'-0"HIGH
89	OPENING 4'-6"WIDE X 7'-6"HIGH
112	3'-9 1/2"WIDE X 6 1/2"HIGH OPENING, BOTTOM @ 1'-0" A.F.F.
113	4'-6" WIDE X 4'-6" HIGH OPNG., BOT. @ 7'-9" A.F.F.
118	9" X 2'-0" OPENING TO BELOW
123	RETAINING WALL - SEE "AC" PLANS
124	EXPANSION JOINT
150	OPENING 5'-4½" WIDE X 7'-2¼" HIGH



LEVEL 4 PLAN

T.O.C. EL. = 1104.75 U.N.O.

GRAPHIC SCALE

8' 4' 0' 8' 16'

⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 4 PLAN

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

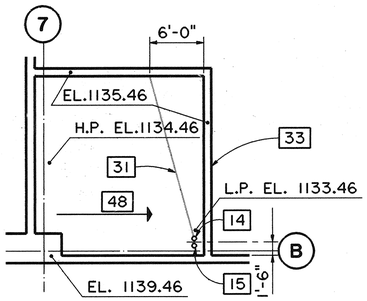
SCALE: ⅛"=1-0" DATE: JUN 1990

SHEET NO. AN4 OF 21 SHEETS

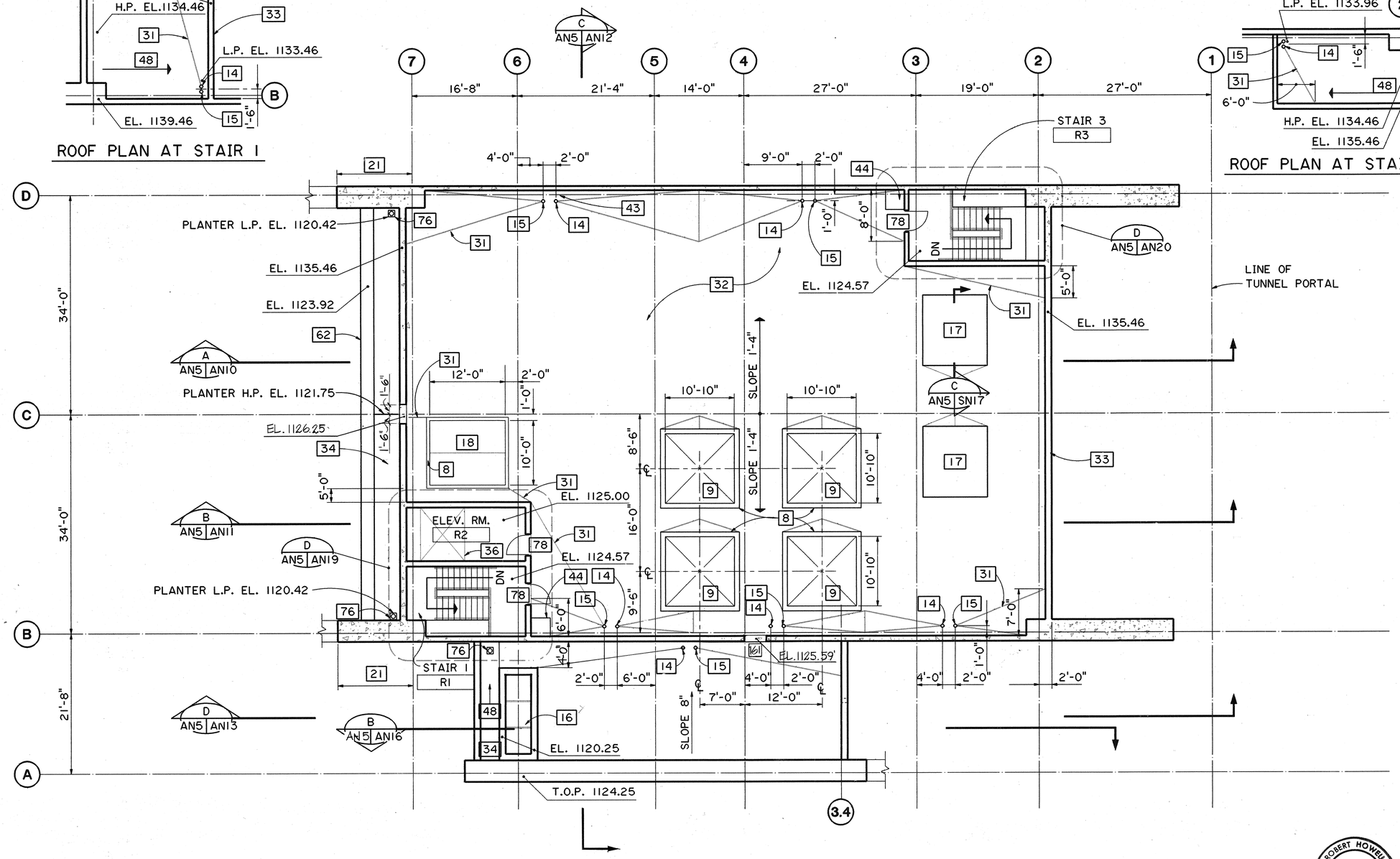
SURVEY PLOTTED BY		DATE	24MAY 90
DRAWN BY	CADD		20 JAN 92
TRACED BY			
DESIGNED BY	R. HOWELL		20 JAN 92
QUANTITIES BY			
CHECKED BY	G. FREY		24 JUNE
ORIGINAL PLAN			
NOTE BOOK		NO.	

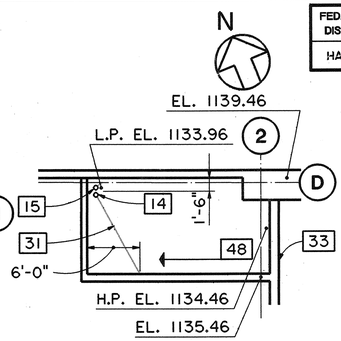
2410V141 2410: V141 AS0035.FGB:1 24MAY90-06.58.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	181	531



ROOF PLAN AT STAIR 1





ROOF PLAN AT STAIR 3

KEYED NOTES:

8	RAISED CURB
9	OPENING FOR EXHAUST FAN
14	ROOF DRAIN
15	OVERFLOW DRAIN
16	SKYLIGHT (N.I.C.)
17	ROOF VENT
18	ROOF HATCH (N.I.C.)
21	SEE ELEVATION FOR DIMENSION
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
33	PARAPET
34	PLANTER
36	OPEN TO BELOW
43	SLOPE UP 2" TO PARAPET (TYP. ALL ROOF DRAINS)
44	3'-0" X 3'-0" SPLASH BLOCK
48	SLOPE 6"
62	SANDBLAST TEXTURE
76	PLANTER DRAIN
78	OPENING 3'-4½" WIDE X 7'-2½" HIGH
161	OPENING 3'-4½" WIDE x 7'-6" HIGH

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. AN1 FOR ROOM FINISHES

ROOF LEVEL PLAN

T.O.C. EL. = 1125.25 AT HIGH POINT
T.O.C. EL. = 1123.92 AT LOW POINT

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROOF LEVEL PLAN

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN5 OF 21 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

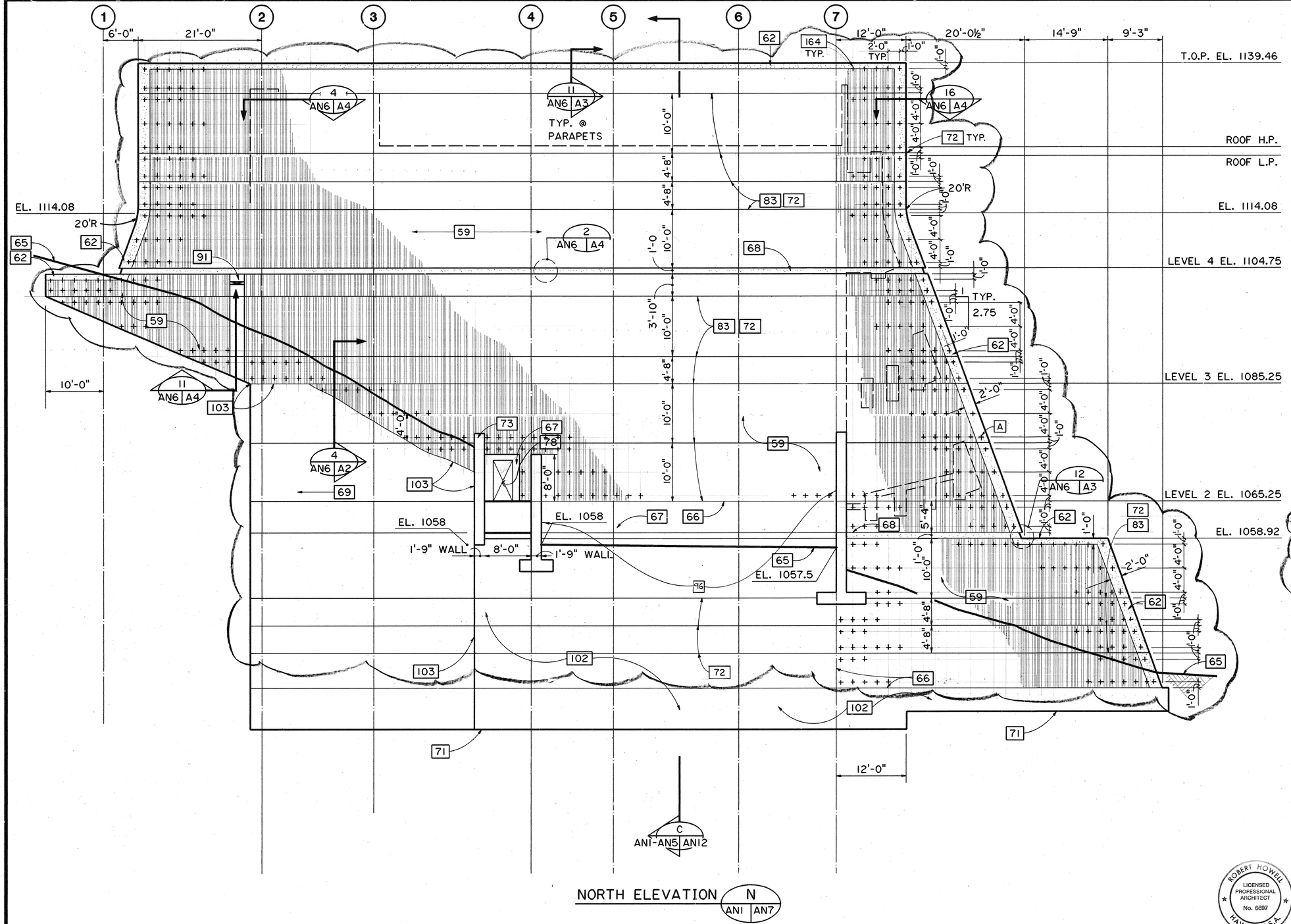
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	24 MAY 90
	TRACED BY "	"
NOTE BOOK	DESIGNED BY R. HOWELL	20 JAN 90
	QUANTITIES BY G. FREY	29 JUN 90
NO.	CHECKED BY	

2410V141 2410: V141 AS0036.FGB;1 24MAY90-07.17.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	182	531



NORTH ELEVATION N ANI AN7

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

KEYED NOTES:

59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
69	MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
71	SEE STRUCTURAL PLANS FOR BOTTOM FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
72	POUR JOINT
73	CONCRETE WALL-SEE STRUCTURAL PLANS
78	OPENING 3-4½" WIDE X 7'-2¼" HIGH
83	FORMLINER JOINT, SEE 8/A4
91	8" X 36" DRAINAGE OPENING - SEE CIVIL PLANS
95	EXTEND WALL TO FINISH GRADE
97	CONCRETE SLAB - EXTEND TO GRADE
98	BRIDGING, SEE STRUCTURAL PLANS
102	NO WATERPROOFING BEYOND
103	REGLET
104	DESIGN ROCK LINE - SEE STRUCTURAL PLANS
96	HECO SUBSTATION WALL, SEE "AA" PLANS
164	FORM TIE

NOTES:
A. SEE NOTES SHEET NO. AN8.

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. ANI FOR ROOM FINISHES
3. SEE NOTES SHEET NO. AN8.

DATE	REVISION
9/16/92	ADDED FORM TIES AND POUR JOINTS PER DCN 64-041

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NORTH ELEVATION

HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN6 OF 21 SHEETS

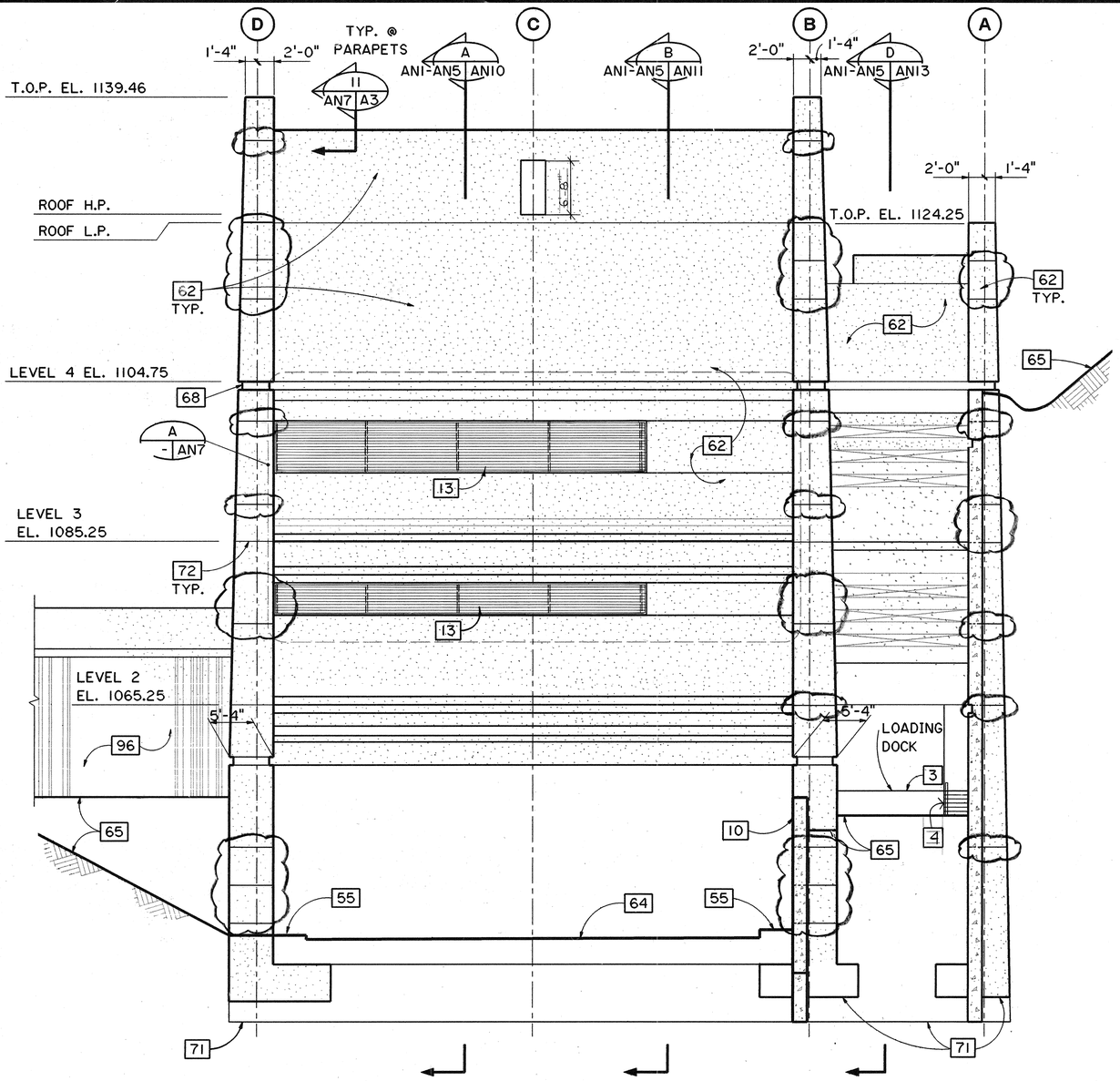
ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert B. Howell

ORIGINAL PLAN	NO.	DATE
SURVEY PLOTTED BY		
DRAWN BY	CADD/VAA	27 JUN 90
TRACED BY		
DESIGNED BY	R. HOWELL	25 JAN 90
NOTE BOOK		
QUANTITIES BY		
CHECKED BY	C. PEEK	25 JUN 90

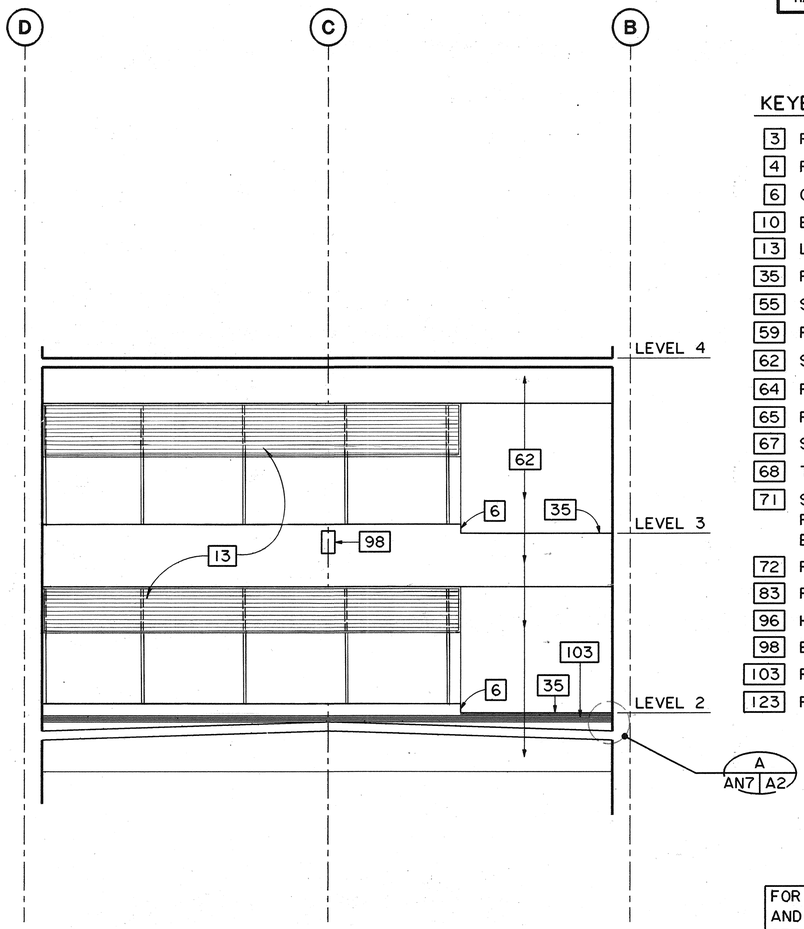
2410V141 2410: V141 AS0087.FGB;1 27JUN90-19.17.10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	183	531



WEST ELEVATION (A1 | AN7)

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"



WEST ELEVATION @ LINE 7 (A AN2 | AN7)

KEYED NOTES:

3	FACE OF LOADING DOCK
4	RAIL, SEE 14/A5
6	CONCRETE CURB
10	BARRIER (SEE CIVIL PLANS)
13	LOUVERS (N.I.C.)
35	PITCH 2" FOR DRAINAGE
55	SAFETY WALK
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
64	ROADWAY
65	FINISH GRADE
67	SMOOTH FINISH GRADE
68	TYPICAL REVEAL, SEE 9/A4
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
96	HECO SUBSTATION WALL, SEE "AA" PLANS
98	BRIDGING, SEE STRUCTURAL PLANS
103	REGLET
123	RETAINING WALL - SEE "AC" DRAWINGS

FOR TYPICAL DETAIL REFERENCES AND FORMLINER JOINT DIMENSIONS SEE SHEETS NO. AN6 AND AN8

DATE	REVISION
9/16/92	ADDED POUR JOINTS PER DCN 64-041

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEST ELEVATIONS

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN7 OF 21 SHEETS

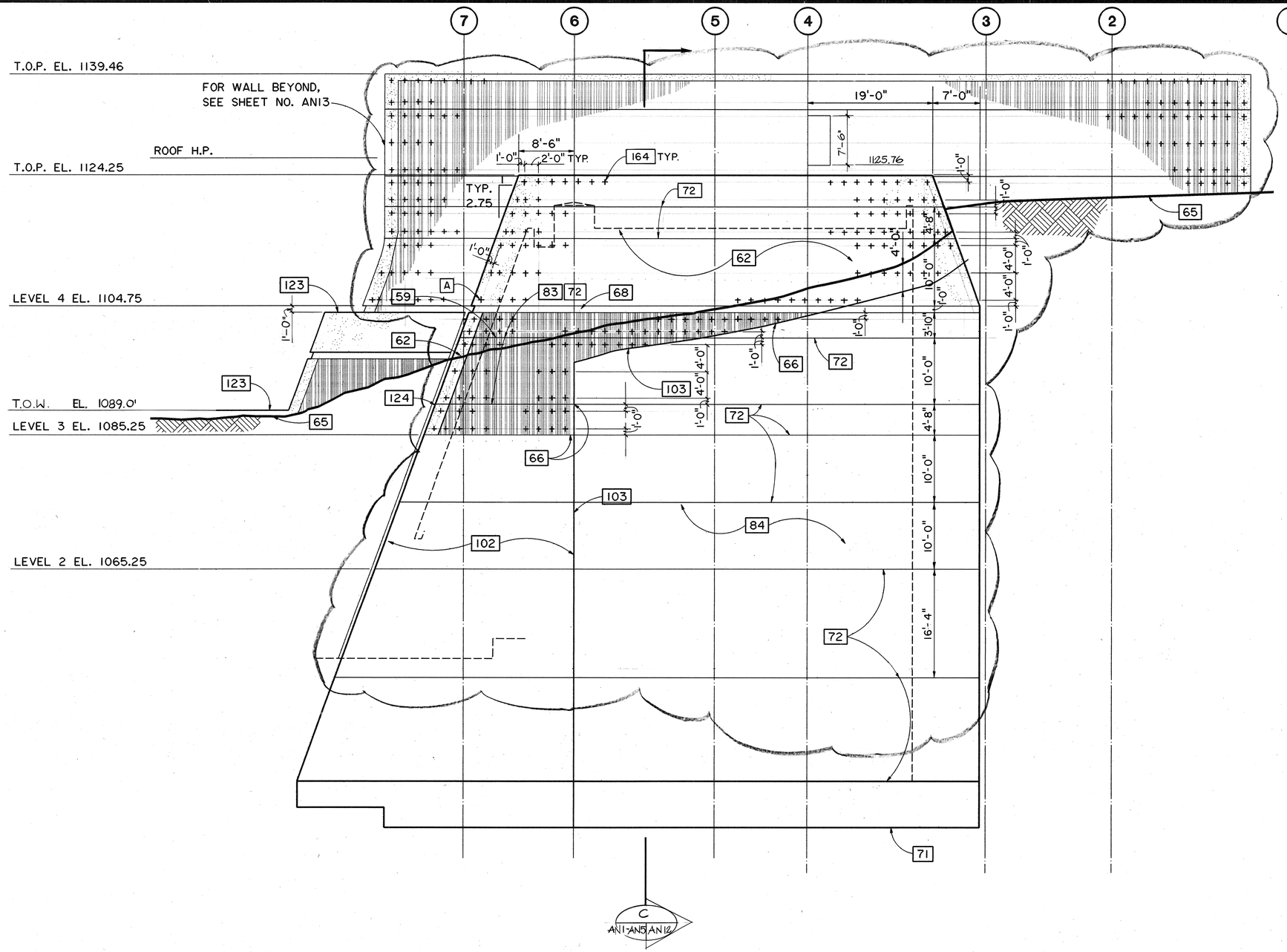
ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	27 JUN 90
NOTE BOOK	TRACED BY	20 JAN 92
	DESIGNED BY R. HOWELL	
	QUANTITIES BY	29 JUN 90
NO.	CHECKED BY G. FEBEY	

2410V141 2410: V141 AS0089.FGB:1 27JUN90-18.59.40



SOUTH ELEVATION S (AN1 | AN8)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	184	531

KEYED NOTES:

59 RANDOM BOARD TEXTURE
62 SANDBLAST TEXTURE
65 FINISH GRADE
66 LIMIT OF RANDOM BOARD TEXTURE
68 TYPICAL REVEAL, SEE 9/A4
69 MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
71A SEE CIVIL PLANS FOR BOTTOM OF FOUNDATION ELEVATION
72 POUR JOINT
83 FORMLINER JOINT, SEE 8/A4
84 MEMBRANE WATERPROOFING
102 NO WATERPROOFING FROM LINE "6" TO FACE OF WALL
103 REGLET
104 DESIGN ROCK LINE - SEE STRUCTURAL PLANS
123 RETAINING WALL - SEE "AC" DRAWINGS
124 EXPANSION JOINT
164 FORM TIE

NOTES:

A. AT SLOPING LEADING EDGES, PLACE FORM TIES 1'-0" FROM FACE.
B. FORM TIES SHALL ALIGN VERTICALLY AND HORIZONTALLY.
C. SLOPING LEADING EDGES SHALL HAVE POUR JOINTS WHERE SHOWN. (NO 1" REVEALS AT THESE LOCATIONS OF NON-TEXTURED CONCRETE.)

FOR TYPICAL DETAIL REFERENCES SEE SHEET NO. AN6.

DATE	REVISION
9/16/92	ADDED FORM TIES, POUR JOINTS AND NOTES PER DCN 64-041

SURVEY PLOTTED BY	
DRAWN BY	CADD
TRACED BY	
DESIGNED BY	R. HOWELL
QUANTITIES BY	
CHECKED BY	C. PREY
DATE	27JUN92 / 26JAN92 / 25JUN92
ORIGINAL PLAN	
NOTE BOOK	
NO.	

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SOUTH ELEVATION

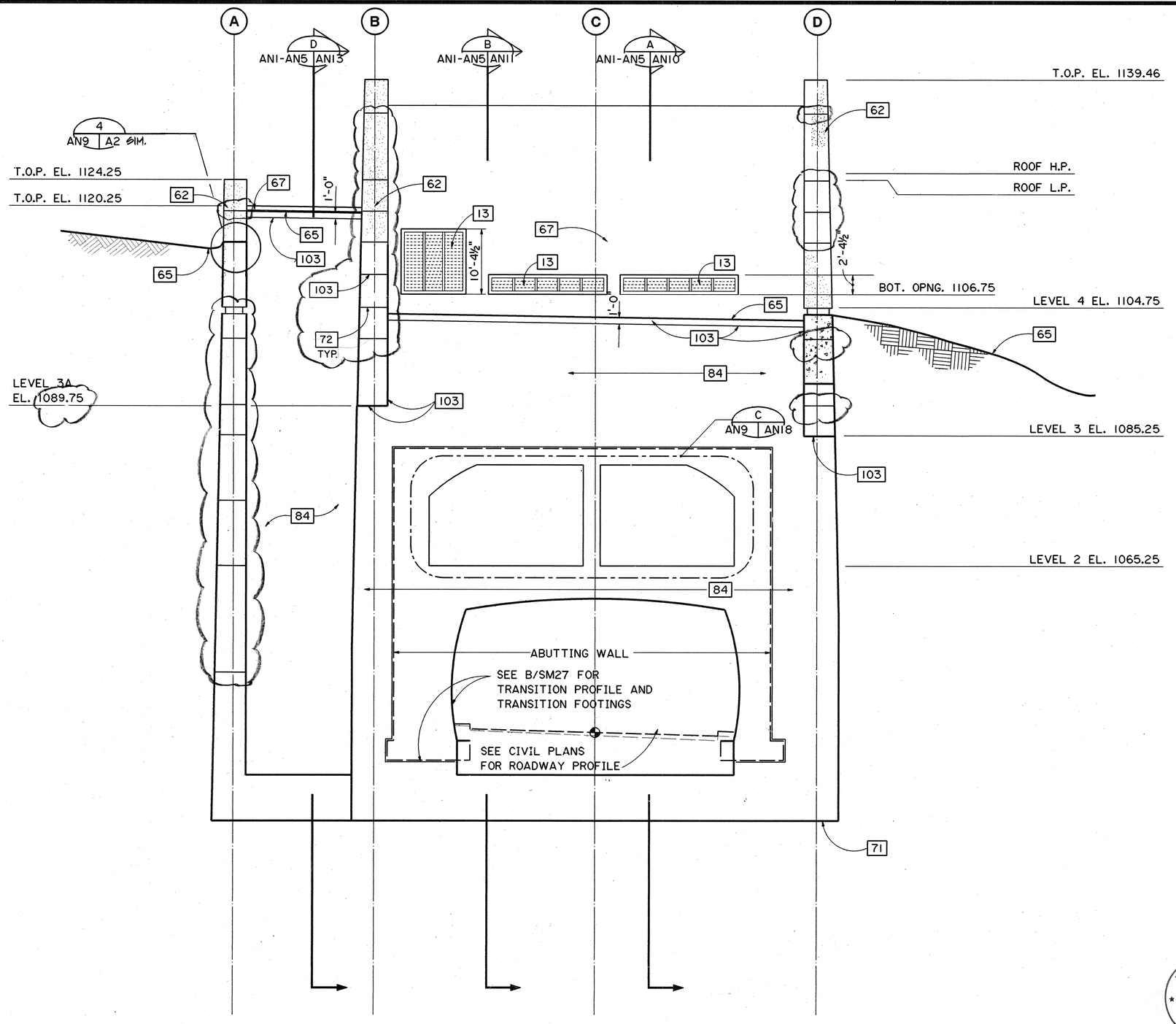
HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET NO. AN8 OF 21 SHEETS

2410V141 2410: V141 AS0088.FGB:1 27JUN90-15.51.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	185	531



EAST ELEVATION E ANI AN9

KEYED NOTES:

- 13 LOUVERS (N.I.C.)
- 62 SANDBLAST TEXTURE
- 65 FINISH GRADE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 84 MEMBRANE WATERPROOFING
- 103 REGLET
- 72 POUR JOINT

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ORIGINAL PLAN
SURVEY PLOTTED BY — DATE 27 JUN 90
DRAWN BY CADD/VAX — " 20 JAN 90
TRACED BY — " —
DESIGNED BY R. HOWELL — " 20 JAN 90
QUANTITIES BY — " —
CHECKED BY C. FREY — " 23 JUN 90
NOTE BOOK — NO. —

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
9/16/92	ADDED POUR JOINTS PER DCN 64-041

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EAST ELEVATION

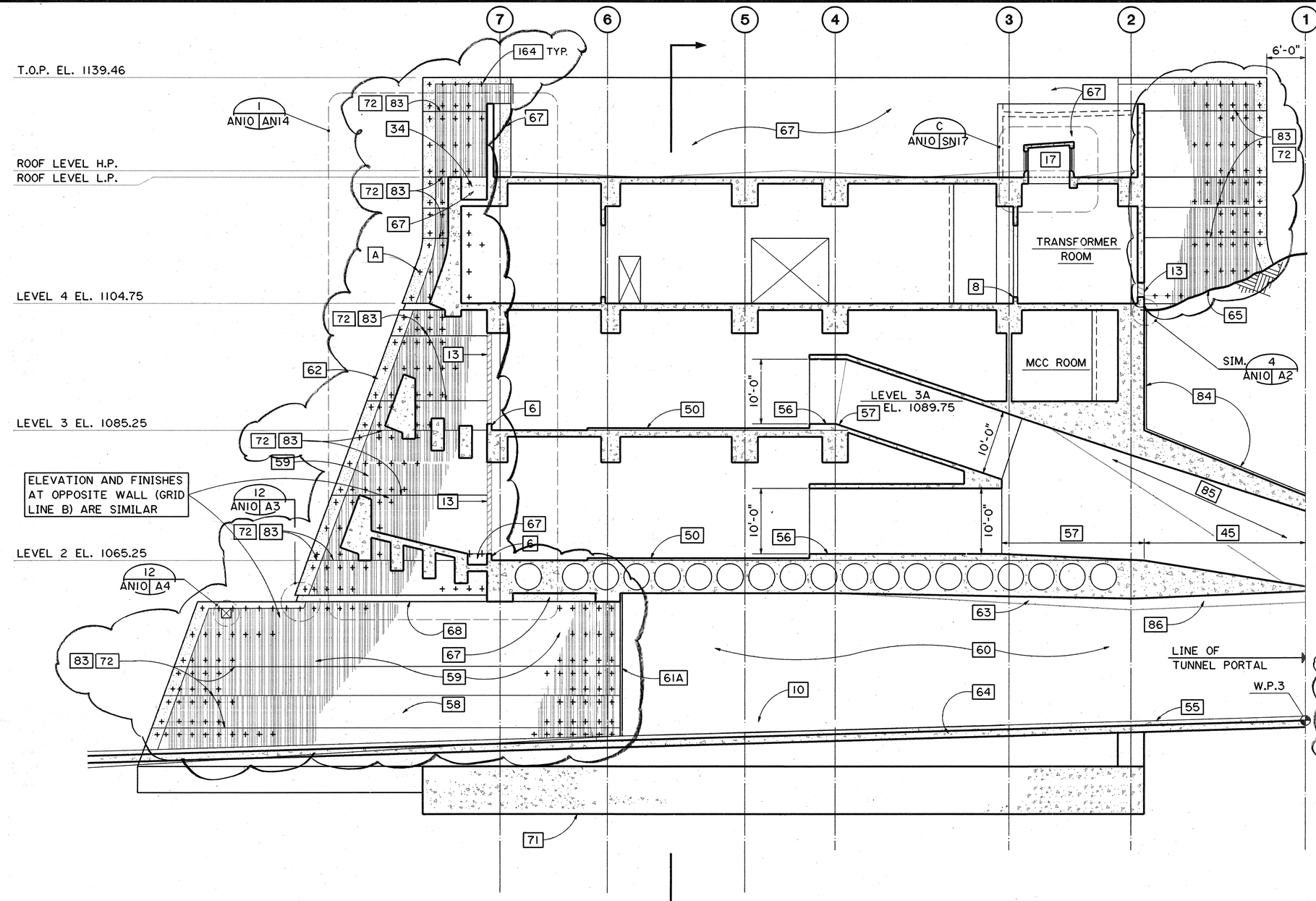
HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN9 OF 21 SHEETS

2410V141 2410: V141 AS0090.FGB;1 27JUN90-19.56.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	186	531



C ANI-AN5 AN12

LONGITUDINAL SECTION A ANI AN10

KEYED NOTES:

- 6 CONCRETE CURB
- 8 RAISED CURB
- 10 BARRIER (SEE CIVIL PLANS)
- 13 LOUVERS (N.I.C.)
- 17 ROOF VENT
- 34 PLANTER
- 45 SLAB TRANSITION FROM CURVED TO FLAT
- 50 4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
- 55 SAFETY WALK
- 56 1'-0" CONCRETE PAD
- 57 TAPER 1'-0" TO STRUCTURAL SLAB
- 58 BRIDGE
- 59 RANDOM BOARD TEXTURE
- 60 CERAMIC TILE (N.I.C.)
- 61A 2" REVEAL, SEE 14/A4 SIM.
- 62 SANDBLAST TEXTURE
- 63 TRANSITION FROM CURVED TO FLAT CEILING
- 64 ROADWAY
- 65 FINISH GRADE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MINIMUM BELOW DESIGN ROCK LINE
- 83 FORMLINER JOINT, SEE 8/A4
- 84 MEMBRANE WATERFROOFING
- 85 CURVED FILLET - SEE SECTIONS
- 86 CURVED CEILING
- 72 POUR JOINT
- 164 FORM TIE

NOTES :

A. SEE NOTES SHEET NO. AN8.

GRAPHIC SCALE
8' 4' 0' 8' 16'
1/8" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert B. Howell

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6997 HAWAII, U.S.A.

9/16/92	ADDED FORM TIES AND POUR JOINTS PER DCN 64-041
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL SECTION A

HALAWA PORTAL BUILDING - IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(64)

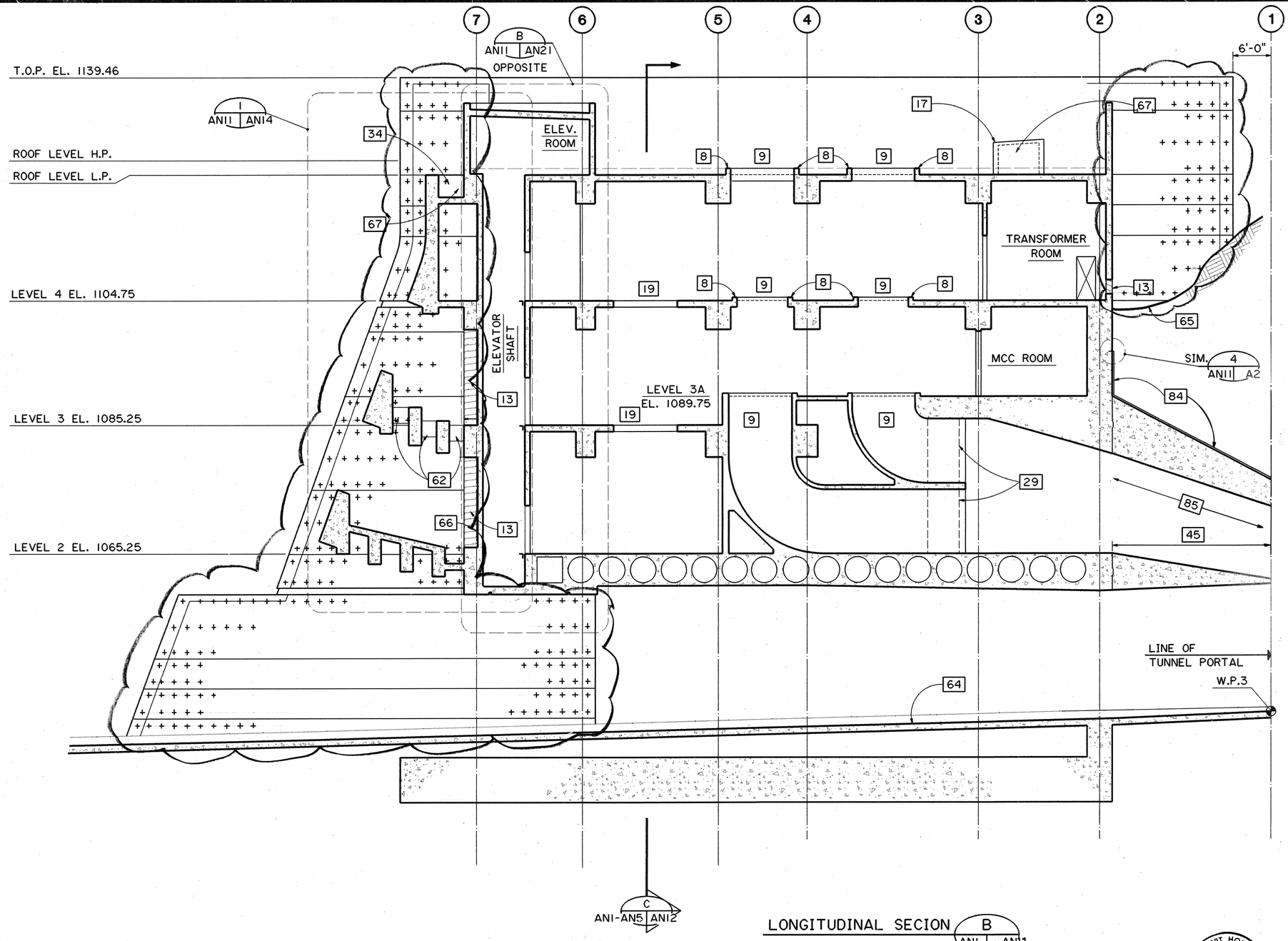
SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET NO. AN10 OF 21 SHEETS

ORIGINAL PLAN	NOTE BOOK	NO.	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY	DATE
				CADD/VAA		R. HOWELL		C. FREY	26 JUN 90 20 JAN 92 29 JUN 92

2410V141 2410: V141 AS0080.FGB:1 26JUN90-16.26.50

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	187	531



KEYED NOTES:

- 8 RAISED CURB
- 9 OPENING FOR EXHAUST FAN
- 13 LOUVERS (N.I.C.)
- 17 ROOF VENT
- 19 REMOVABLE FLOOR PANEL
- 29 ATTENUATOR (N.I.C.)
- 34 PLANTER
- 45 SLAB TRANSITION FROM CURVED TO FLAT
- 59 RANDOM BOARD TEXTURE
- 62 SANDBLAST TEXTURE
- 64 ROADWAY
- 65 FINISH GRADE
- 66 LIMIT OF RANDOM BOARD TEXTURE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 82 EXPOSED FACE OF ROCK FLUSH WITH FACE OF CONCRETE ABOVE
- 83 FORMLINER JOINT, SEE 8/A4
- 84 MEMBRANE WATERPROOFING
- 85 CURVED FILLET - SEE SECTIONS

LONGITUDINAL SECION B ANI | AN11

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

FOR TYPICAL DETAIL REFERENCES, SEE SHEET NO. ANIO

9/16/92	ADDED FORM TIES AND POUR JOINTS PER DCN 64-041
DATE	REVISION

ORIGINAL PLAN

SURVEY PLOTTED BY	
DRAWN BY	CADD/VAA
TRACED BY	
DESIGNED BY	R. HOWELL
QUANTITIES BY	
CHECKED BY	C. FREY
DATE	27 JUN 90 / 20 JAN 92 / 24 JUN 92
NOTE BOOK	
NO.	

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert B. Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

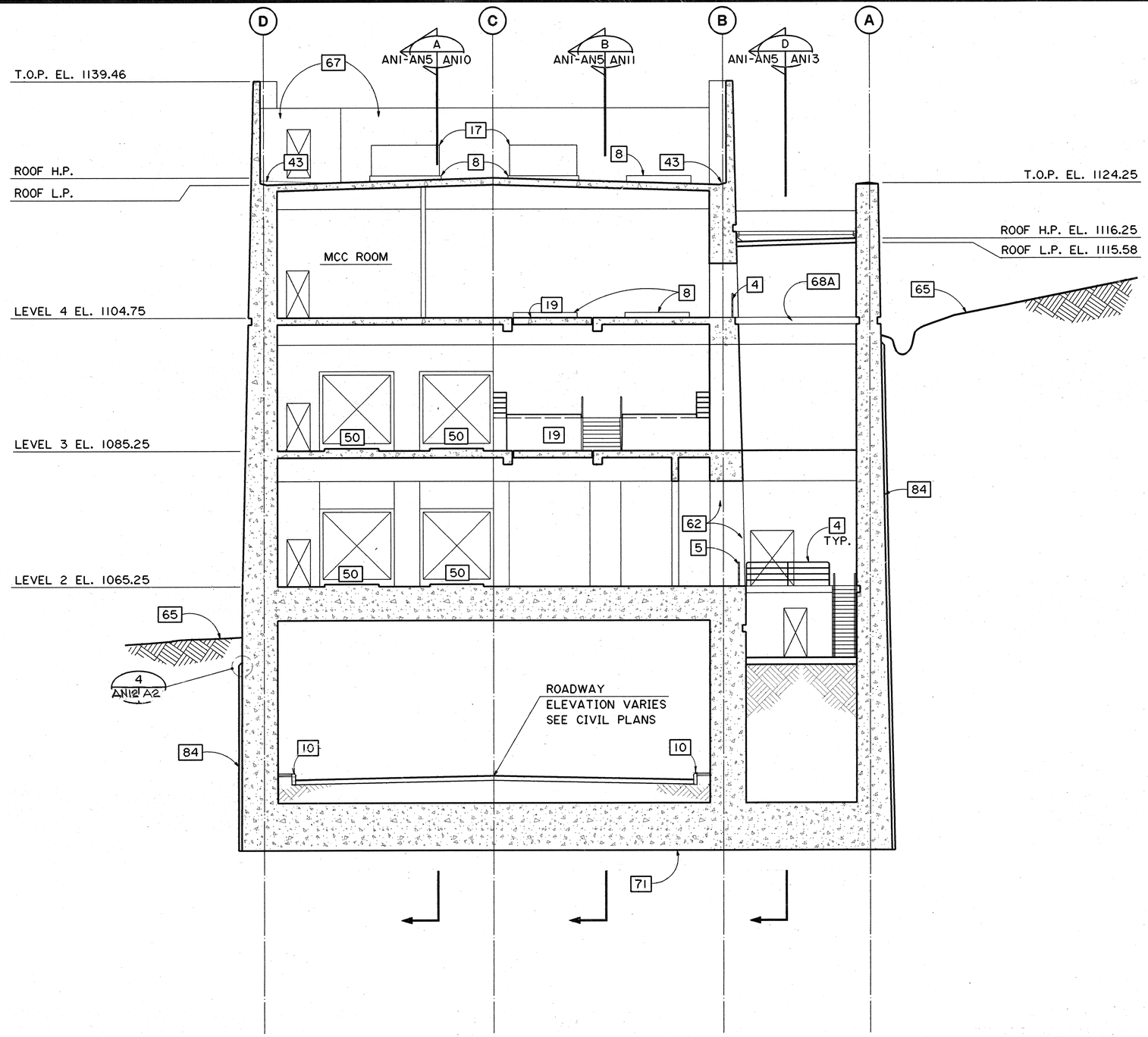
LONGITUDINAL SECTION B
HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛" = 1'-0" DATE: JUN 1990

SHEET NO. ANI1 OF 21 SHEETS

2410V141 2410: V141 AS0081.FGB;1 27JUN90-16.49.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	188	531



TRANSVERSE SECTION C AN1 | AN12

KEYED NOTES:

4	RAIL, SEE 14/A5
5	REMOVABLE RAIL, SEE 6/A5 (SIM.)
8	RAISED CURB
10	BARRIER (SEE CIVIL PLANS)
17	ROOF VENT
19	REMOVABLE FLOOR PANEL
43	SLOPE UP 2" TO PARAPET (TYP. ALL ROOF DRAINS)
50	4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
62	SANDBLAST TEXTURE
65	FINISH GRADE
67	SMOOTH FINISH CONCRETE
68A	TYPICAL REVEAL, SEE 1/A4
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MINIMUM BELOW DESIGN ROCK LINE
84	MEMBRANE WATERPROOFING

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert B. Howell

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6607 HAWAII, U.S.A.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY CADD/VAA	26 JUN 90
NO.	TRACED BY	26 JUN 90
	DESIGNED BY R. HOWELL	26 JUN 90
	QUANTITIES BY	26 JUN 90
	CHECKED BY C. FREY	26 JUN 90

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRANSVERSE SECTION C

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. AN12 OF 21 SHEETS

2410V141 2410: V141 AS0082.FGB;1 26JUN90-14.46.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	189	531

KEYED NOTES:

10	BARRIER (SEE CIVIL PLANS)
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
69	MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
84	MEMBRANE WATERPROOFING
95	EXTEND WALL TO FINISH GRADE
102	NO WATERPROOFING MEMBRANE
103	REGLET
105	6" CRUSHED ROCK FILL
164	FORM TIE

NOTES:

A. SEE NOTES SHEET NO. AN8.

FOR TYPICAL DETAIL REFERENCES SEE SHEET NO. AN8.

LONGITUDINAL SECION D ANI | ANI3

GRAPHIC SCALE
8' 4' 0' 8' 16'
1/8" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

DATE	REVISION
9/16/92	ADDED FORM TIES AND POUR JOINTS PER DCN 64-041

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL SECTION D

HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

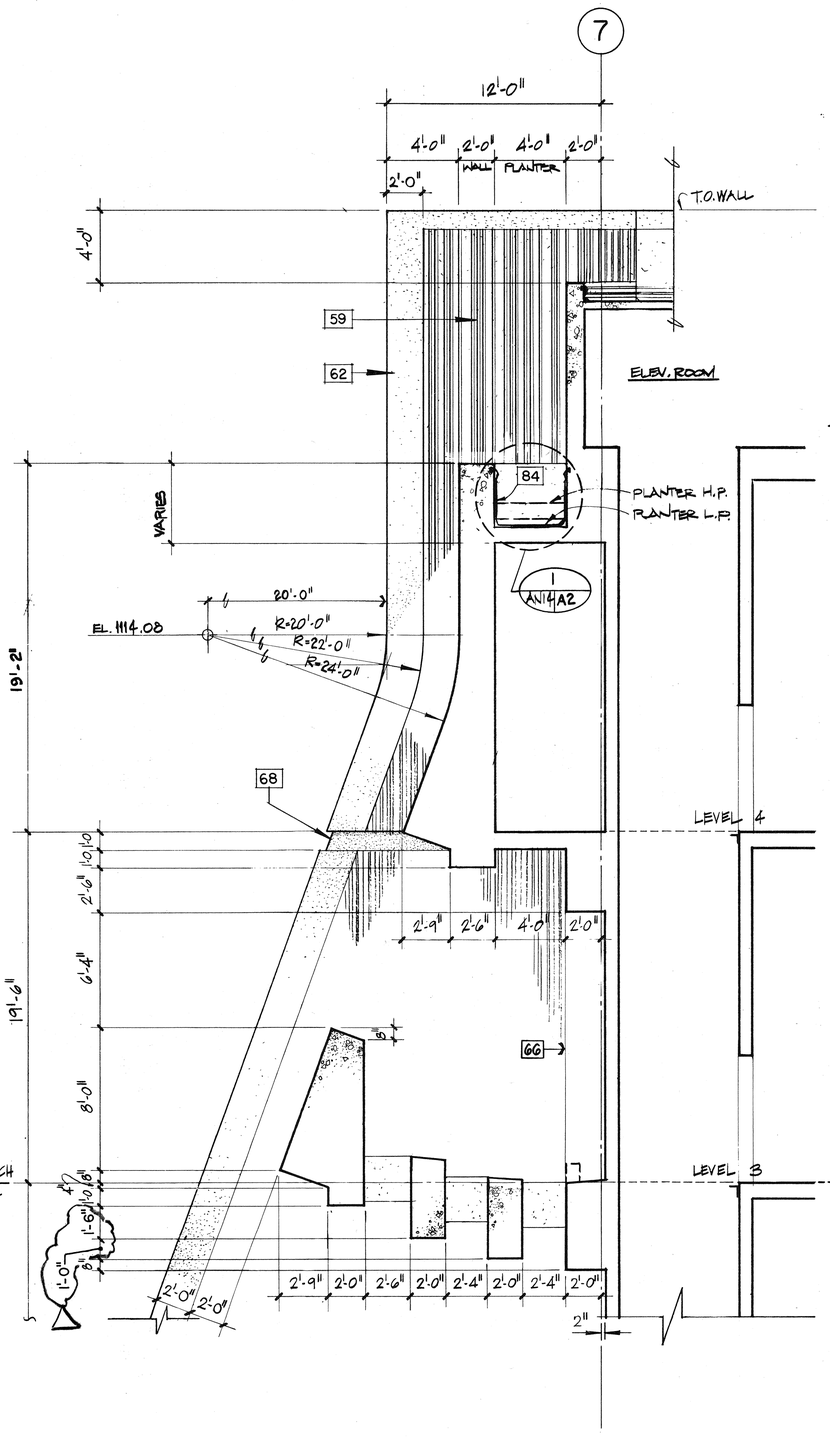
SCALE: 1/8"=1'-0" DATE: JUN 1990

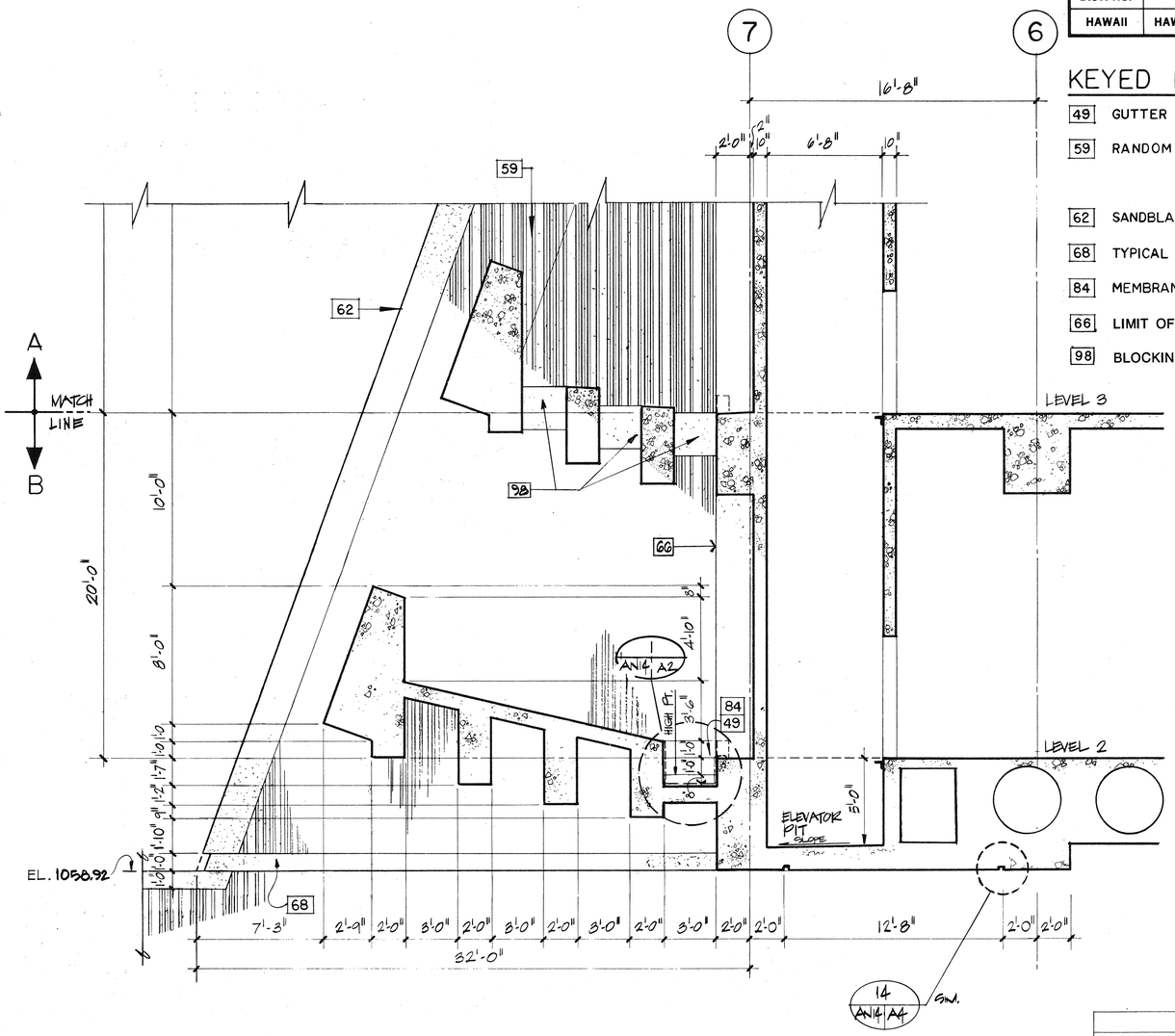
SHEET NO. AN13 OF 21 SHEETS

ORIGINAL PLAN		DATE
NOTE BOOK	SURVEY PLOTTED BY	
	TRACED BY CADD/VAA	9 JAN 92
	DESIGNED BY R. HOWELL	10 JAN 92
	QUANTITIES BY	
NO.	CHECKED BY G. FREY	23 JAN 92

2410V141 2410: V141 AS0095.FGB:1 27JUN90-17.09.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	190	531





KEYED NOTES:

- 49 GUTTER
- 59 RANDOM BOARD TEXTURE
- 62 SANDBLAST TEXTURE
- 68 TYPICAL REVEAL, SEE 9/A4
- 84 MEMBRANE WATERPROOFING
- 66 LIMIT OF RANDOM BOARD TEXTURE
- 98 BLOCKING-SEE STRUCTURAL PLANS

DETAIL SECTION 1 AN10 AN14

GRAPHIC SCALE
4' 2' 0 4' 8'
1/4" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY D. BASSAN	12JAN 90
NOTE BOOK	TRACED BY	10JAN 90
	DESIGNED BY R. HOWELL	10JAN 90
No.	QUANTITIES BY	22JUN 90
	CHECKED BY C. FREY	

18

DATE	REVISION
10/30/91	REV. FACE BEAM DIM'S PER DCN 64-011

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6897
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

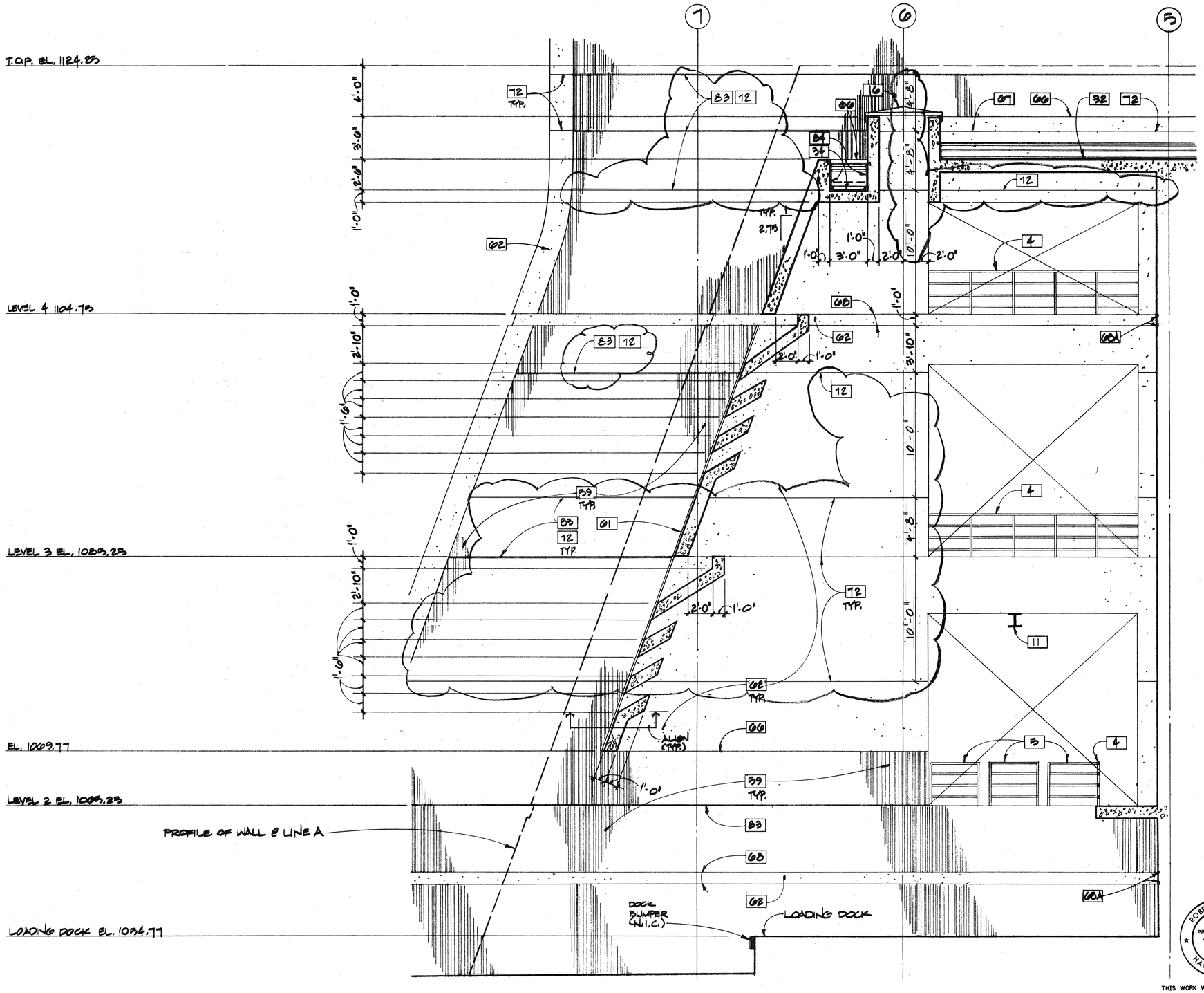
DETAIL SECTION AT PORTAL FACE

HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

SHEET AN14 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(64)	1990	191	531



KEYED NOTES:

4	RAIL, SEE 14/A5
5	REMOVABLE RAIL, SEE 6/A5 SIM.
16	SKYLIGHT (N.I.C.)
32	SINGLE PLY MEMBRANE ROOFING
34	PLANTER, SEE 1/A2
59	RANDOM BOARD TEXTURE
61	2" REVEAL, SEE 14/A4
62	SANDBLAST TEXTURE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
68A	TYPICAL REVEAL, SEE 1/A4
72	POUR JOINT
11	OVERHEAD MONORAIL CRANE
83	FORMLINER JOINT, SEE 8/A4
84	MEMBRANE WATERPROOFING

GRAPHIC SCALE

1/4" = 1'-0" 4' 2' 0' 4' 8'

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	JAN 90
	DRAWN BY L. SUEOKA	
	TRACED BY	
NOTE BOOK	DESIGNED BY R. HOWELL	JUN 90
	QUANTITIES BY	
No.	CHECKED BY G. FREY	JUN 90

DATE	REVISION
9/16/92	ADDED AND RELOCATED FORMLINER AND POUR JOINTS PER DCN 64-041

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL SECTION AT LOADING DOCK FACE

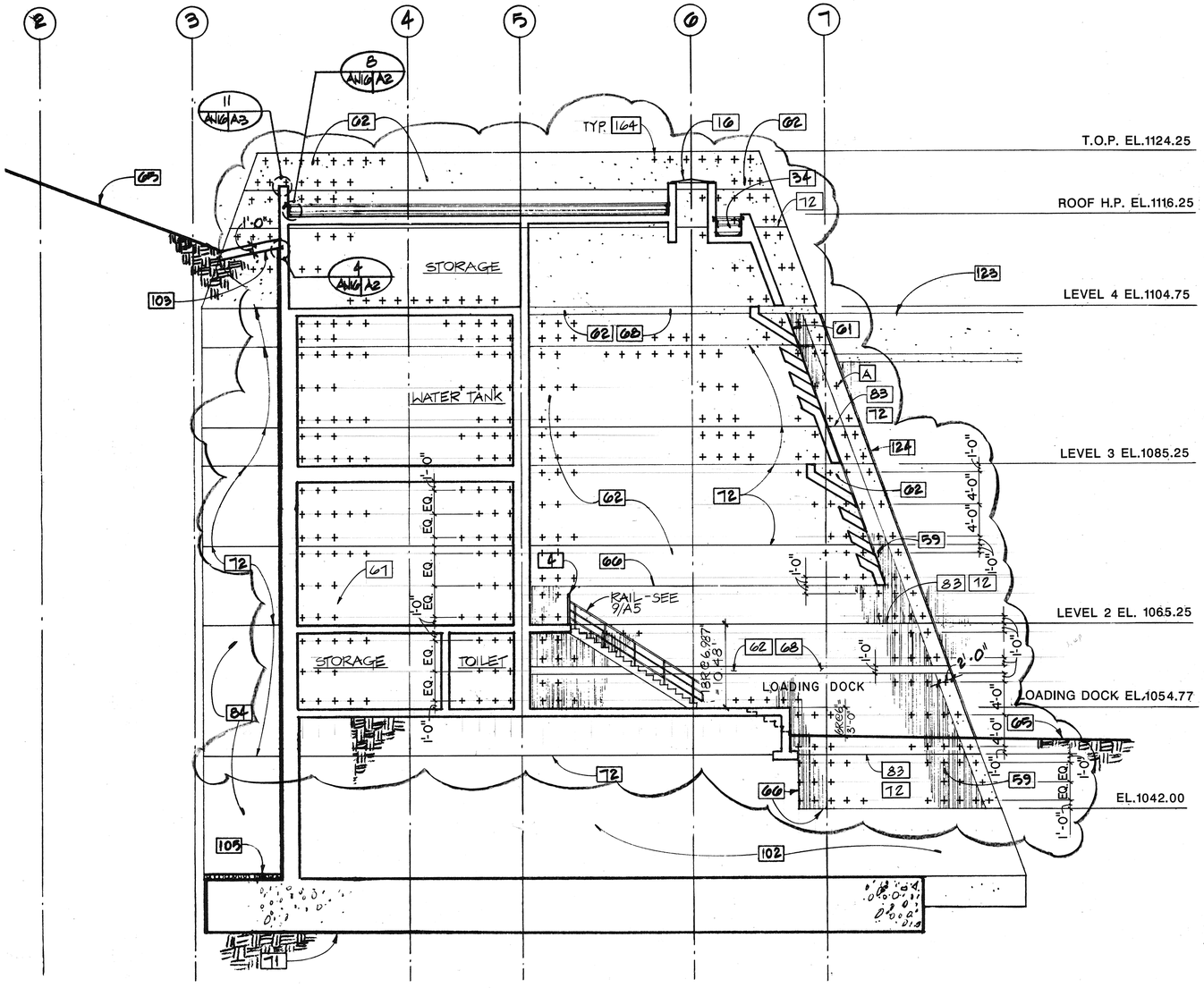
HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

SHEET AN15 OF 21 SHEETS

19

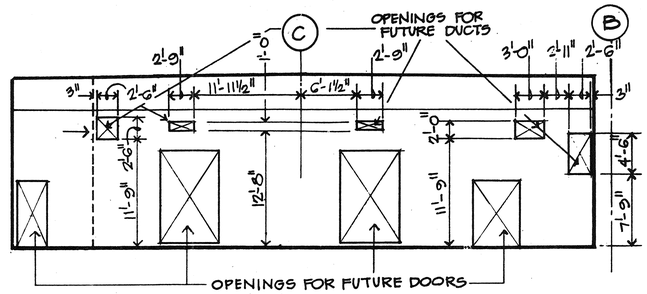
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	192	531



ELEVATION OF WALL AT LINE A

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

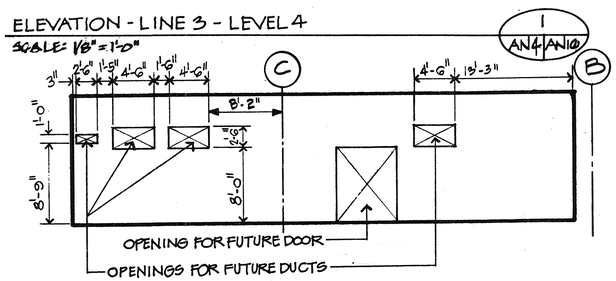
B AN5 AN16



ELEVATION - LINE 3 - LEVEL 4

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

1 AN4 AN16

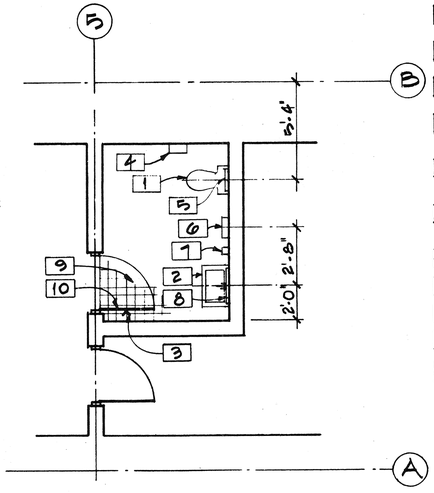


ELEVATION - LINE 3 - LEVEL 3

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

2 AN4 AN16

KEYED NOTES AT TOILET ONLY :



1. WATER CLOSET, N.I.C.
2. LAVATORY , N.I.C.
3. ROBE HOOK, N.I.C.
4. COMB. ASH TRAY/ TOILET PAPER DISP.,N.I.C.
5. TOILET SEAT COVER DISPENSER, N.I.C.
6. COMB. PAPER TOWEL DISP./WASTE RECEPT.,N.I.C.
7. SOAP DISPENSER, N.I.C.
8. MIRROR, N.I.C.
9. CERAMIC TILE,N.I.C.
10. DOOR AND FRAME, N.I.C.

NOTE:

ALL FIXTURES AND ACCESSORIES LISTED ABOVE ARE N.I.C.

PLAN-TOILET AT LOADING DOCK

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

A AN1 AN16

KEYED NOTES:

4	RAIL, SEE 14/A5
16	SKYLIGHT (N.I.C.)
34	PLANTER, SEE 1/A2
59	RANDOM BOARD TEXTURE
61	2" REVEAL, SEE 14/A4
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
68A	TYPICAL REVEAL, SEE 1/A4
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
102	NO WATERPROOFING BEYOND
103	REGLET
105	6" CRUSHED ROCK FILL
123	RETAINING WALL- SEE CONTROL BUILDING PLANS
124	EXPANSION JOINT
164	FORM TIE

NOTES :

A. SEE NOTES SHEET NO. AN8.

GRAPHIC SCALES

1/4" = 1' - 0" 4' 2' 0' 4' 8'

1/8" = 1' - 0" 8' 4' 0' 8' 16'

DATE	REVISION
9/16/92	ADDED FORM TIES AND POUR JOINTS PER DCN 64-041

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 8697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL PLANS & INTERIOR ELEVATIONS

HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

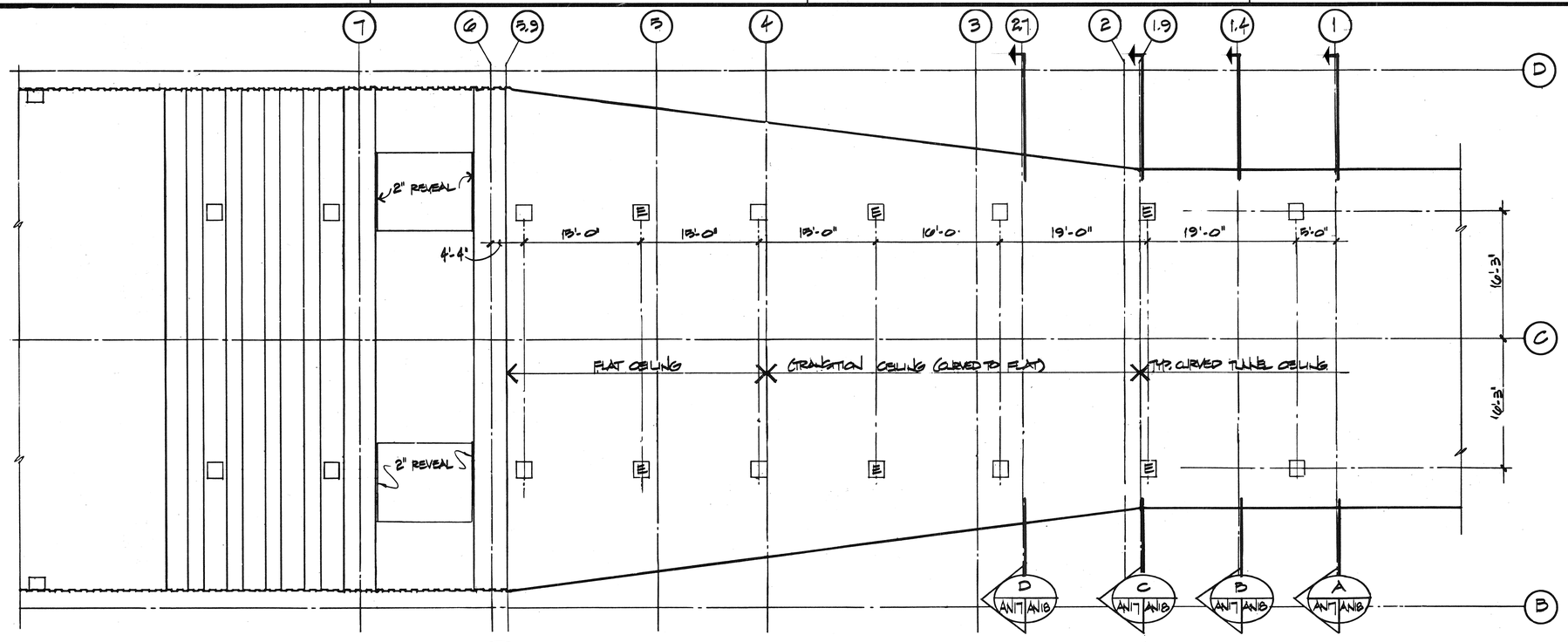
SHEET AN16 OF 21 SHEETS

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

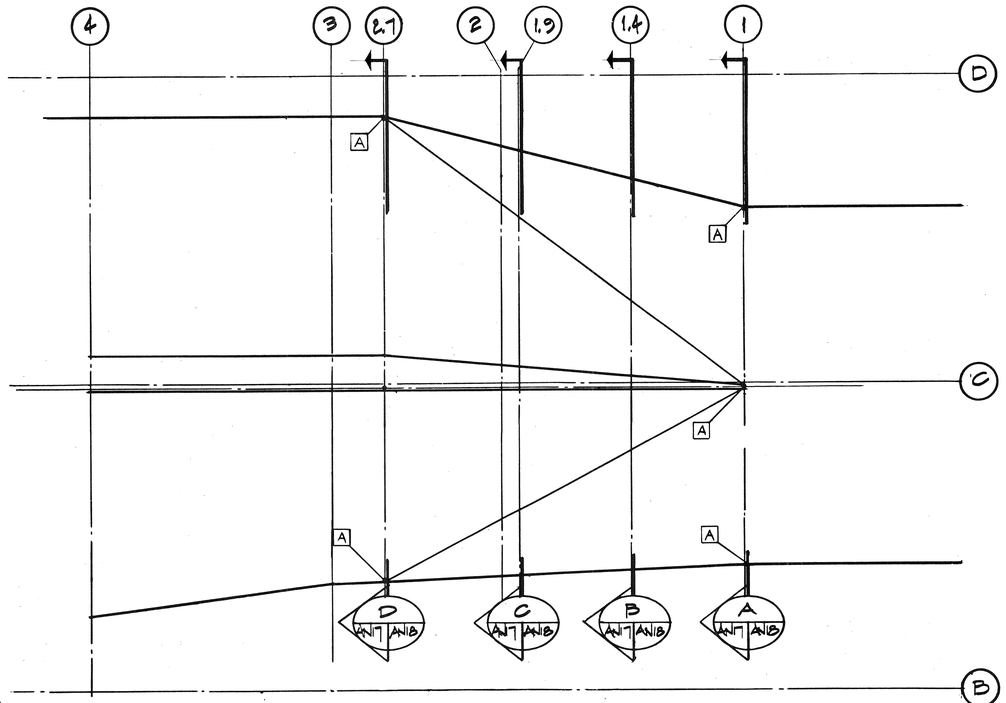
30

192

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	193	531



LEVEL 1 REFLECTED CEILING PLAN — 1 / AN17



LEVEL 2 REFLECTED CEILING PLAN — 2 / AN17

LEGEND

- ☐ TYPICAL LIGHT FIXTURE (N.I.C.)
- E EMERGENCY LIGHT FIXTURE (N.I.C.)
- A SEE SECTIONS FOR ELEVATIONS

GRAPHIC SCALE

10' 5' 0 5' 10' 20'

DATE	REVISION

ORIGINAL PLANS — SURVEY PLOTTED BY: SUEUGA — DATE: JUN 90
DRAWN BY: — TRACED BY: SUEUGA — DATE: JUN 90
NOTE BOOK — DESIGNED BY: R. HOWELL — DATE: JUN 90
NO. — QUANTITIES BY: — CHECKED BY: G. FREY — DATE: JUN 90

21

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

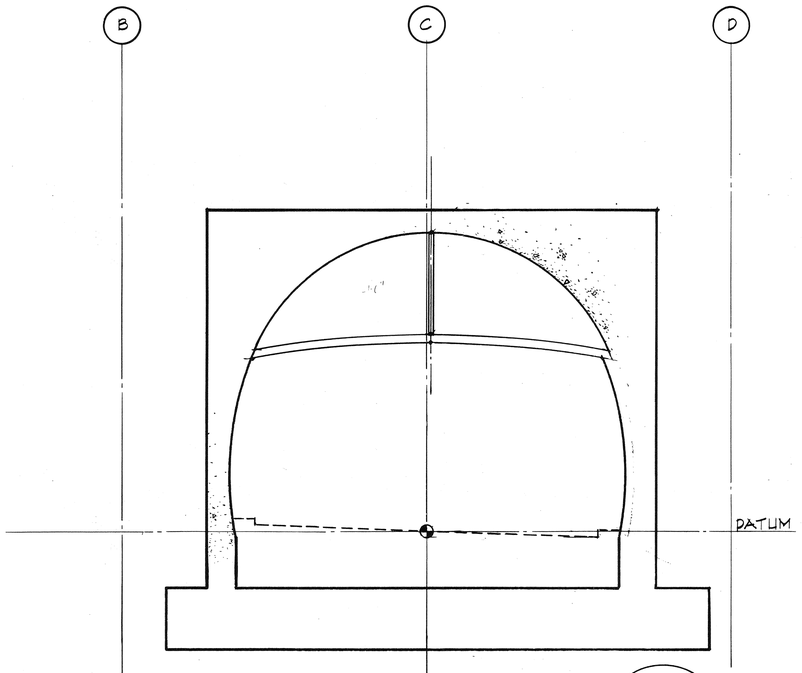
REFLECTED CEILING PLAN

HALAWA PORTAL BUILDING IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

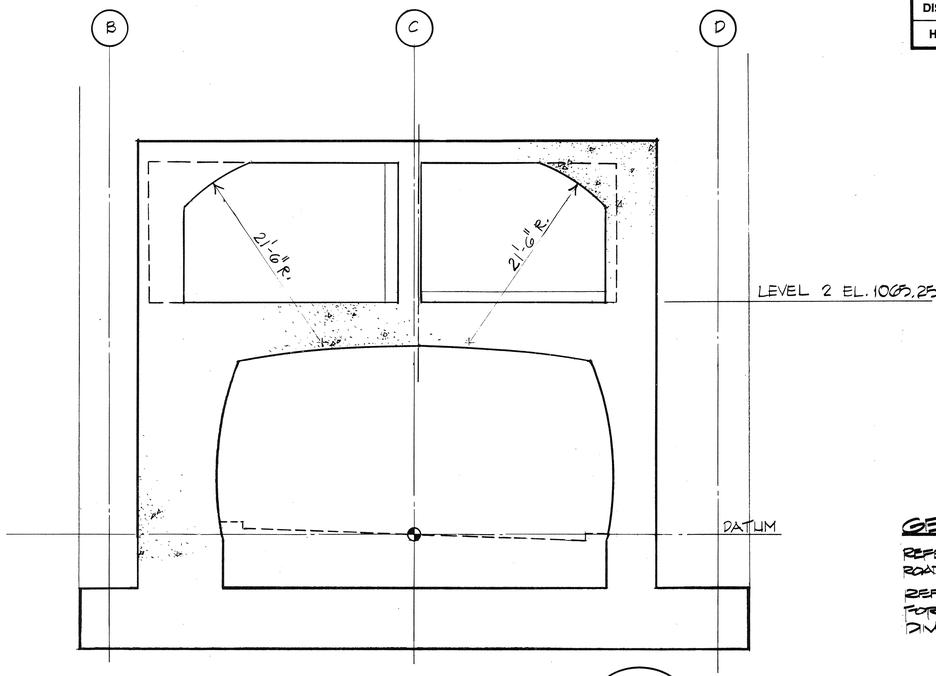
SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET AN17 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	194	531



SECTION @ COL. LINE 1 (A) ANI-2 | ANI8

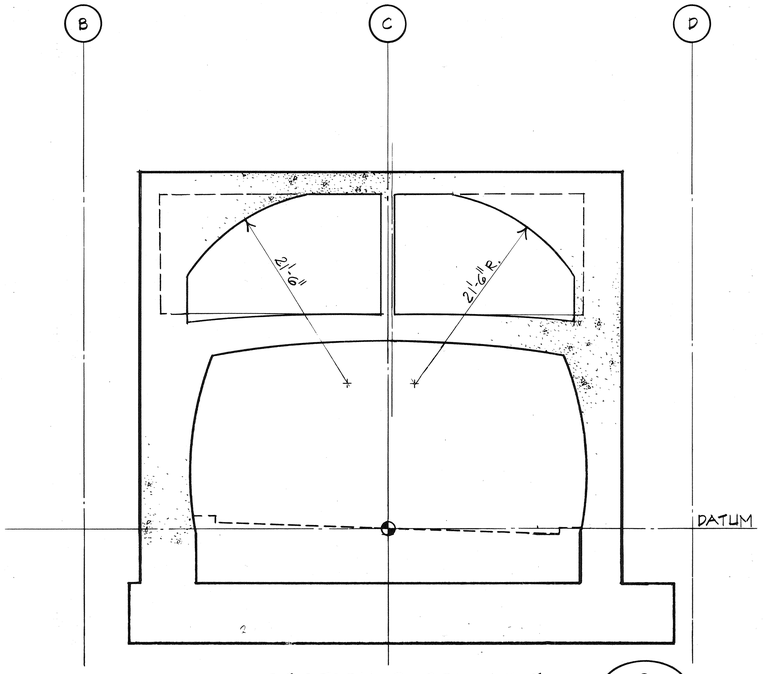


SECTION @ COL. LINE 1.9 (C) ANI-2 | ANI8

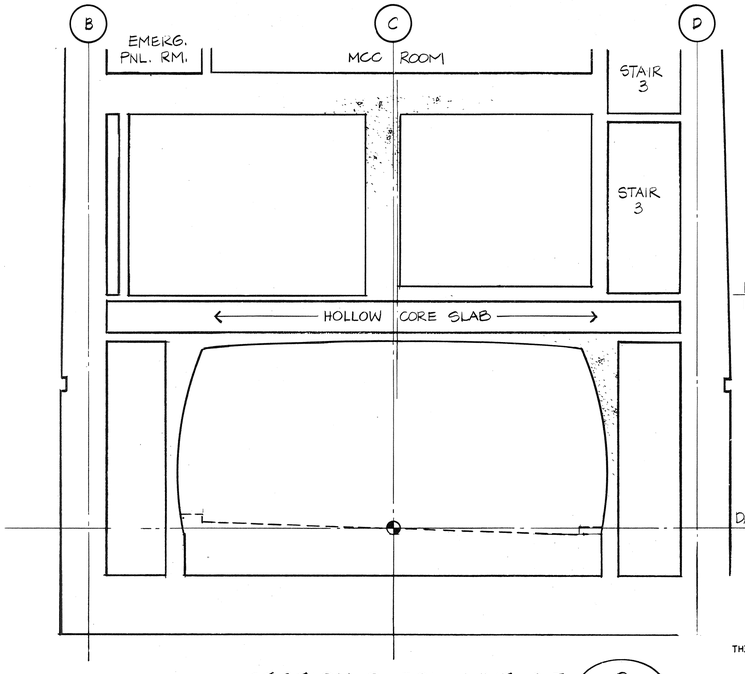
GENERAL NOTES:

REFER TO CIVIL PLANS FOR ALL ROADWAY DATUM INFORMATION.

REFER TO STRUCTURAL PLANS FOR ALL CONCRETE TUNNEL DIVENSION INFORMATION.



SECTION @ COL. LINE 1.4 (B) ANI-2 | ANI8



SECTION @ COL. LINE 2.7 (D) ANI-2 | ANI8

GRAPHIC SCALE

8' 4' 0 8' 16'

1/8" = 1'-0"

DATE	REVISION

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTIONS AT CONCRETE DUCTWORK

HAIKU PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64):

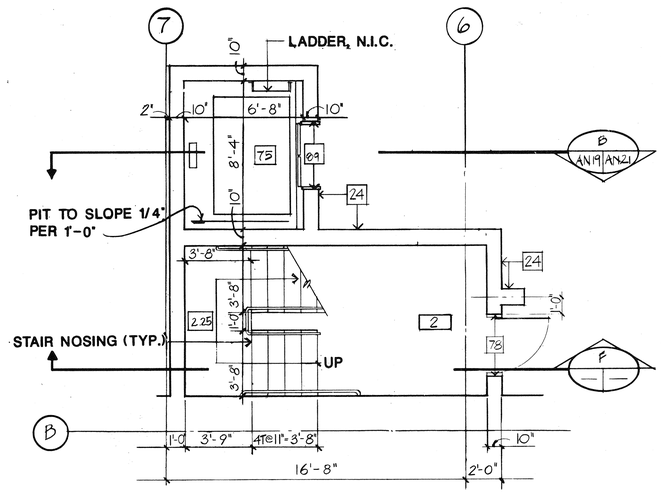
SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET AN18 OF 21 SHEETS

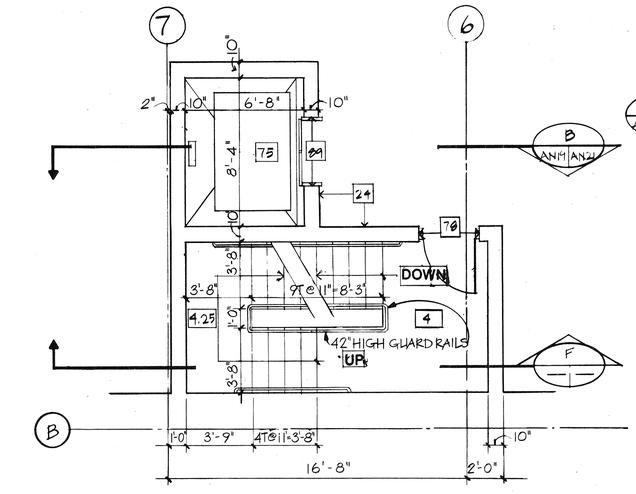
ORIGINAL PLAN	SURVEY PLOTTED BY L. DIAZ — DATE 12 JAN 90
	DRAWN BY : :
NOTE BOOK	TRACED BY : :
	DESIGNED BY R. HOWELL — DATE 12 JAN 90
No.	QUANTITIES BY : :
	CHECKED BY C. FREY — DATE 22 JUN 90

22

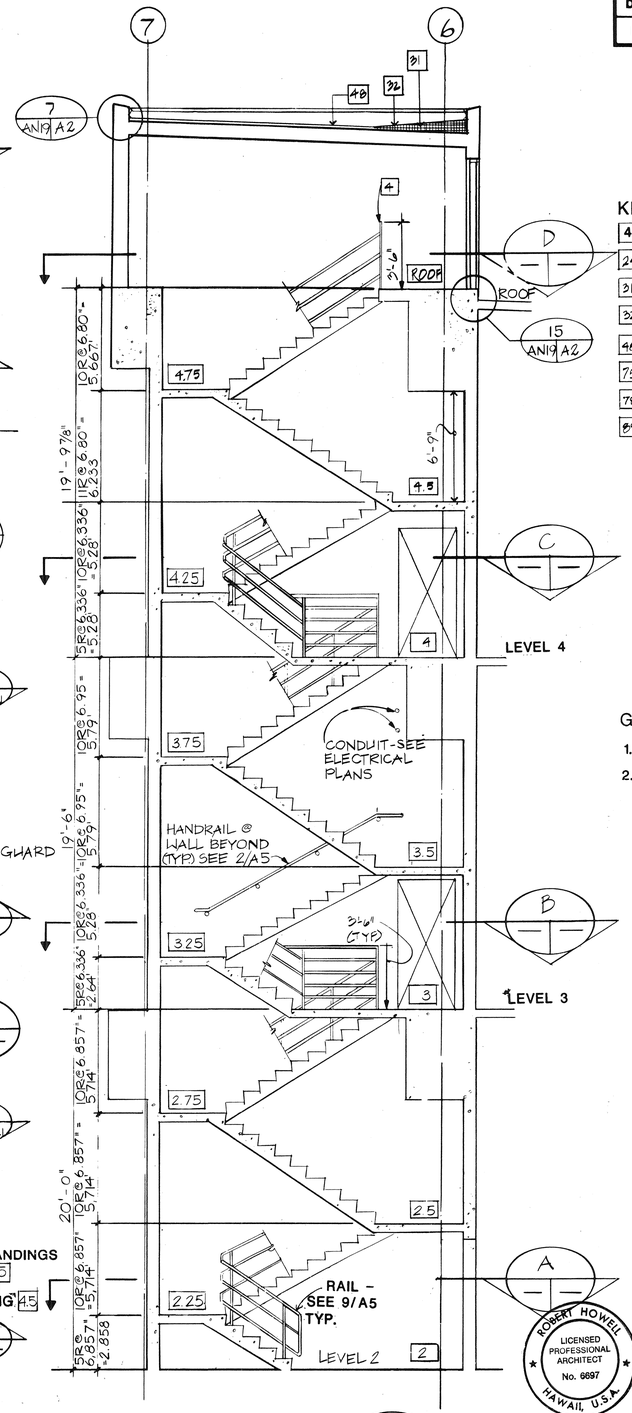
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	195	531



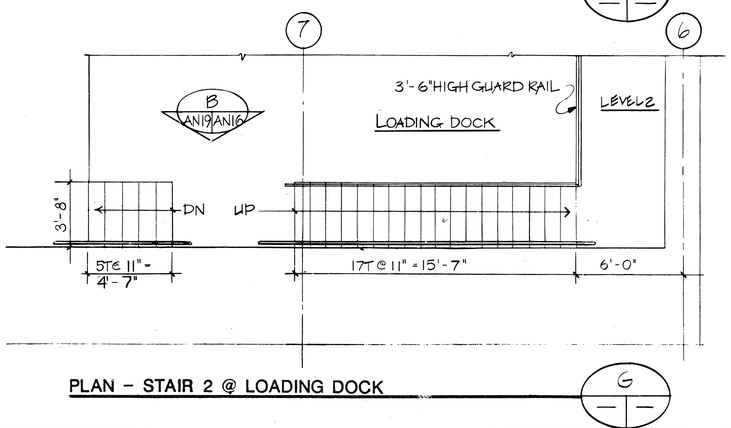
PLAN - STAIR @ LEVEL 2 & 2.25 — A



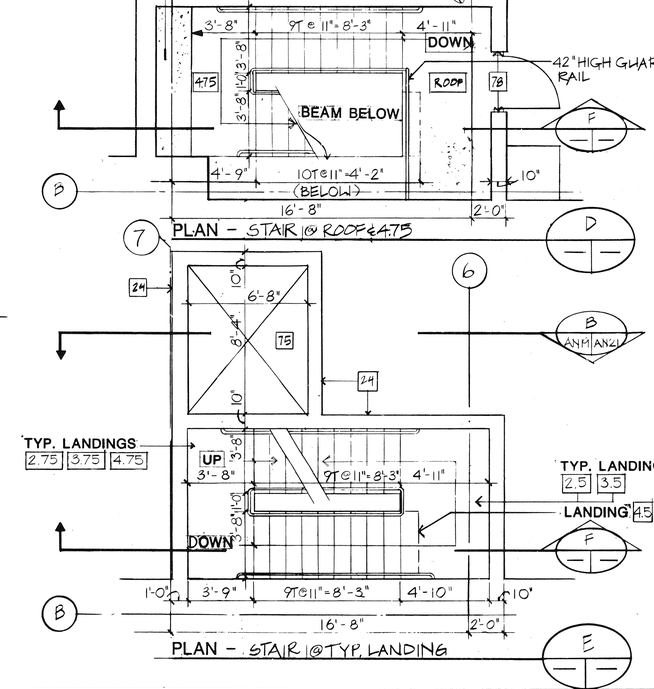
PLAN - STAIR @ LEVEL 4 & 4.25 — C



SECTION - STAIR 1 — F



PLAN - STAIR 2 @ LOADING DOCK — G



PLAN - STAIR @ TYP. LANDING

PLAN - STAIR @ ROOF & 4.75 — D

KEYED NOTES:

- 4 RAIL, SEE 14/A5
- 24 10" WALL
- 31 CRICKET
- 32 SINGLE PLY MEMBRANE ROOFING
- 40 SLOPE 6"
- 75 ELEVATOR (N.I.C.)
- 78 OPENING, 3'-4-1/2" WIDE X 7'-2-1/4" HIGH
- 89 OPENING, 4'-6" WIDE X 7'-6" HIGH

GENERAL NOTES:

1. METAL DOORS AND FRAMES, N.I.C.
2. EXTEND HANDRAILS AT WALLS BEYOND TREAD NOSINGS, SEE 2/A5 (TYP.)

GRAPHIC SCALE
4' 2' 0 4' 8'
1/4" = 1'-0"

DATE	REVISION

ORIGINAL PLAN	SURVEY PLOTTED BY	L. SUEVOKA	DATE	2 JAN 90
	DRAWN BY			
NOTE BOOK	TRACED BY	C. FREY		2 JAN 90
	DESIGNED BY	C. FREY		
No.	QUANTITIES BY			
	CHECKED BY	C. FREY		22 JUN 90

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIRS - 1 & 2

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

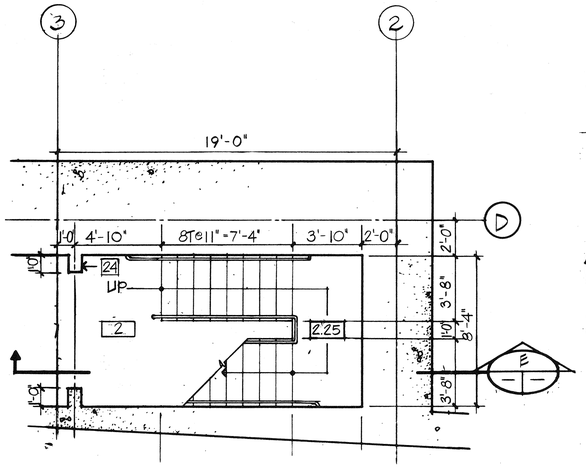
SHEET NO. AN19 OF 21 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

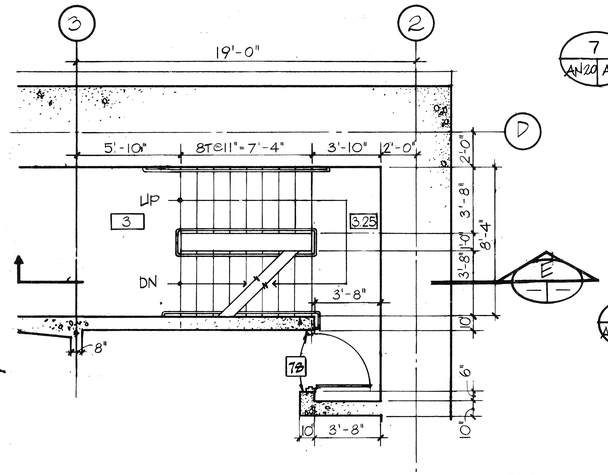
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

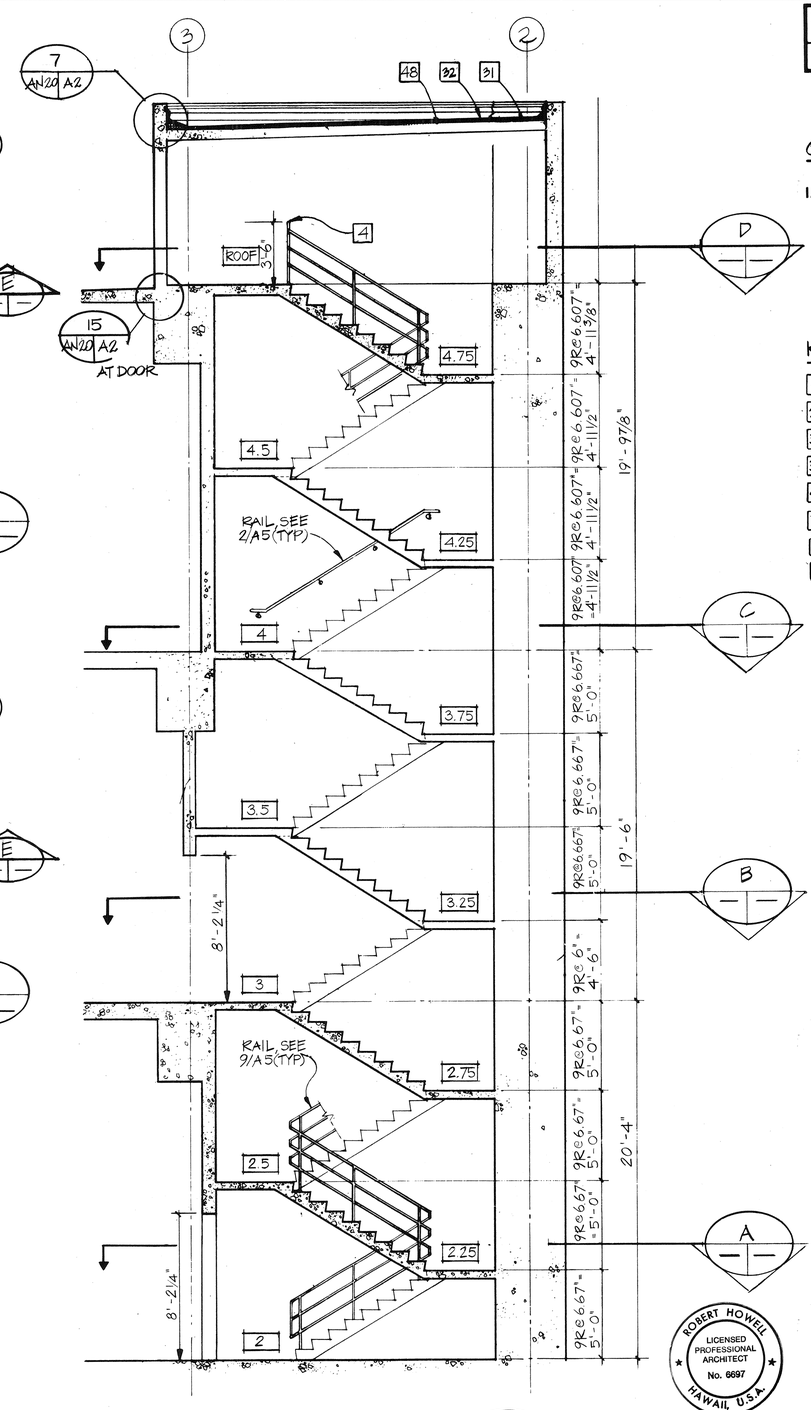
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	196	531

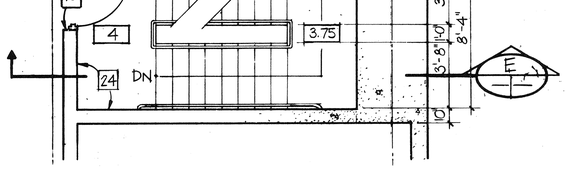


PLAN - STAIR 3 @ LEVEL 2 & 2.25 — A

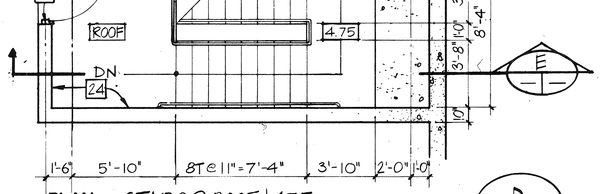


PLAN - STAIR 3 @ LEVEL 3 & 3.25 — B

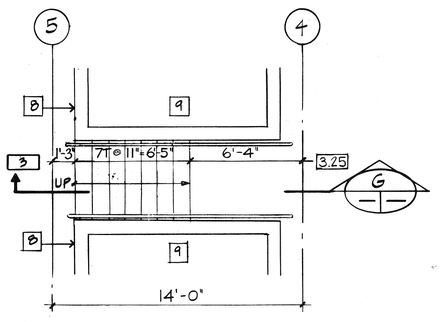




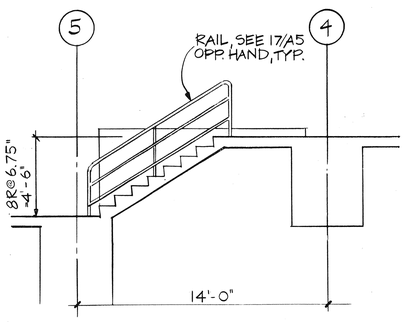
PLAN - STAIR 3 @ LEVEL 4 & 3.75 — C



PLAN - STAIR 3 @ ROOF & 4.75 — D



PLAN - STAIR 4 — F



SECTION - STAIR 4 — G

SECTION - STAIR 3 — E

GENERAL NOTES

1. ALL DOORS & DOOR FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)

KEYED NOTES

- 4 RAIL SEE 14/A5
- 24 10" WALL
- 31 CRICKET
- 32 SINGLE PLY MEMBRANE ROOFING
- 48 SLOPE 6"
- 78 OPENING, 3'-4 1/2" W. x 7'-2 1/4" H.
- 2 RAISED CURB, TYP. OF 4
- 9 OPENING FOR EXHAUST FANS, TYP. OF 4

GRAPHIC SCALE:
4' 2' 0' 4' 8'
1/4" = 1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIRS - 3 & 4

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

SHEET NO. AN20 OF 21 SHEETS

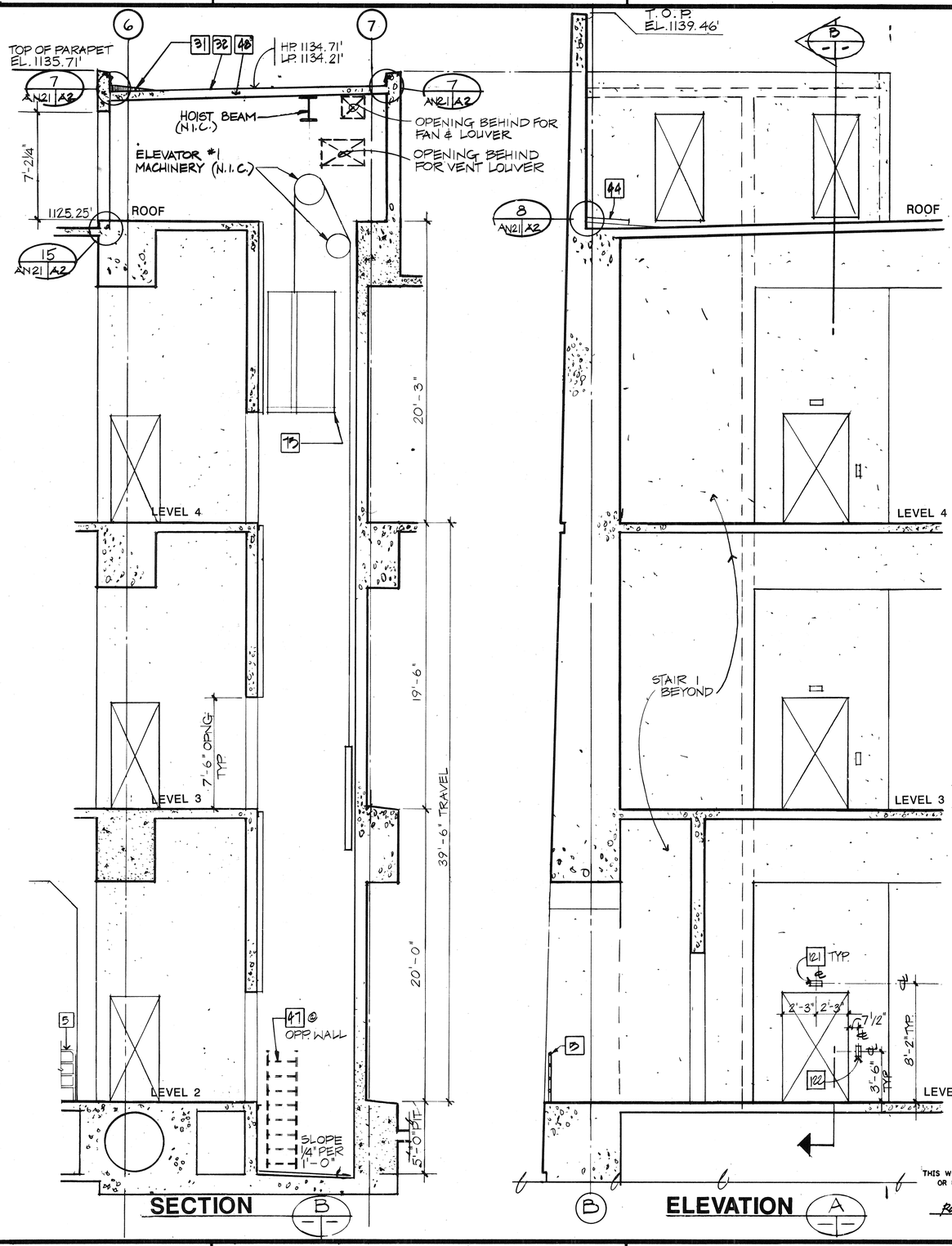
ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY L. SUEOKA	02JAN90
NOTE BOOK	TRACED BY	
	DESIGNED BY C. FREY	02JAN90
	QUANTITIES BY	
No.	CHECKED BY C. FREY	22JAN90

24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	197	531



KEYED NOTES

5	REMOVABLE RAIL, SEE 6/A5
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
44	3'-0" X 3'-0" SPLASH BLOCK
47	LADDER (N.I.C.)
48	SLOPE 6"
75	ELEVATOR (N.I.C.)
121	LANTERN RECESS 8.81"WIDE X 3.5"HIGH X 4"DEPTH
122	HALL BUTTON RECESS 2.88"WIDE X 8.12"HIGH X 4"DEPTH

GENERAL NOTES

1. METAL DOORS AND FRAMES N.I.C.
2. METAL ELEVATOR DOORS, FRAMES, GUIDER, ANGLES, CAB, MACHINERY,ETC.-N.I.C.

GRAPHIC SCALE
4' 2' 0 4' 8'
¼" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY L. SUEUGA	9 JAN 90
NOTE BOOK	TRACED BY	
	DESIGNED BY C. FREY	10 JAN 90
	QUANTITIES BY	
No.	CHECKED BY C. FREY	22 JUN 90

25

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTIONS AT ELEVATOR

HALAWA PORTAL BUILDING - IB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ¼" = 1'-0" DATE: JUN 1990

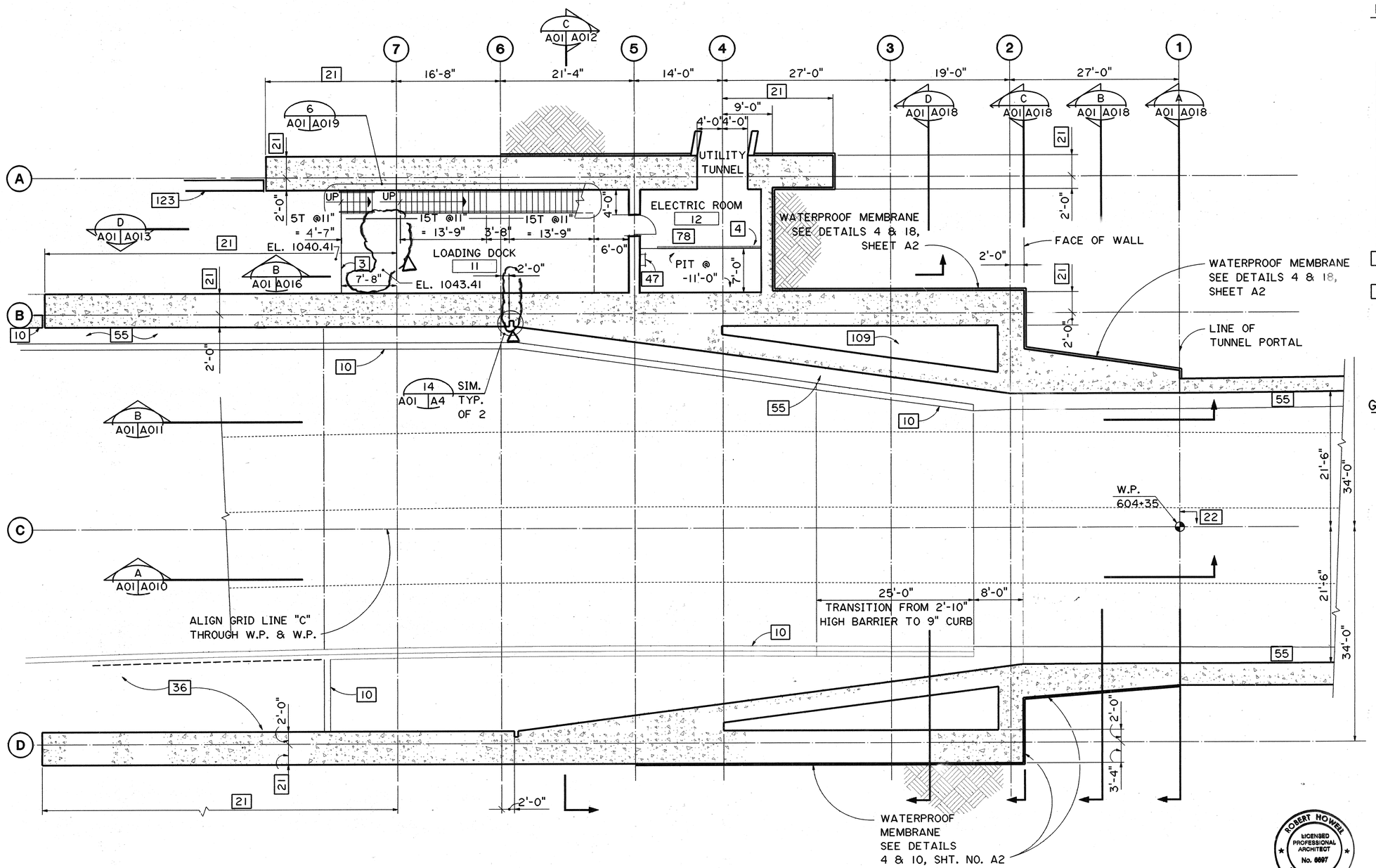
ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

SHEET NO. AN21 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	198	531



KEYED NOTES:

3	FACE OF LOADING DOCK
4	RAIL, SEE 14/A5
10	BARRIER (SEE CIVIL PLANS)
21	SEE ELEVATION FOR DIMENSION
22	GRIDLINES 1-7 ARE ⊥ TO LINE C
23	12" WALL
36	OPEN TO BELOW
47	LADDER
55	SAFETY WALK
75	ELEVATOR (N.I.C.)
78	OPENING 3'-4½" WIDE X 7'-2¼" HIGH
89	OPENING 4'-6" WIDE X 7'-6" HIGH
109	WALL THICKNESS VARIES, SEE STRUCTURAL PLANS
123	RETAINING WALL - SEE "AC" DRAWINGS

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. A01 FOR ROOM FINISHES
3. SEE SHEET NO. A019 FOR DIMENSIONS AT STAIRS AND LOADING DOCK.

FOR DETAIL AS-BUILT INFORMATION REFER TO CONSTRUCTION SUBMITTALS

LEVEL 1 PLAN

T.O.C. AT ROADWAY AND SAFETY WALK - SEE CIVIL PLANS

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
11/5/91	REVISED STAIRS AT LOADING DOCK PER DCN 64-012

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 1 PLAN

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

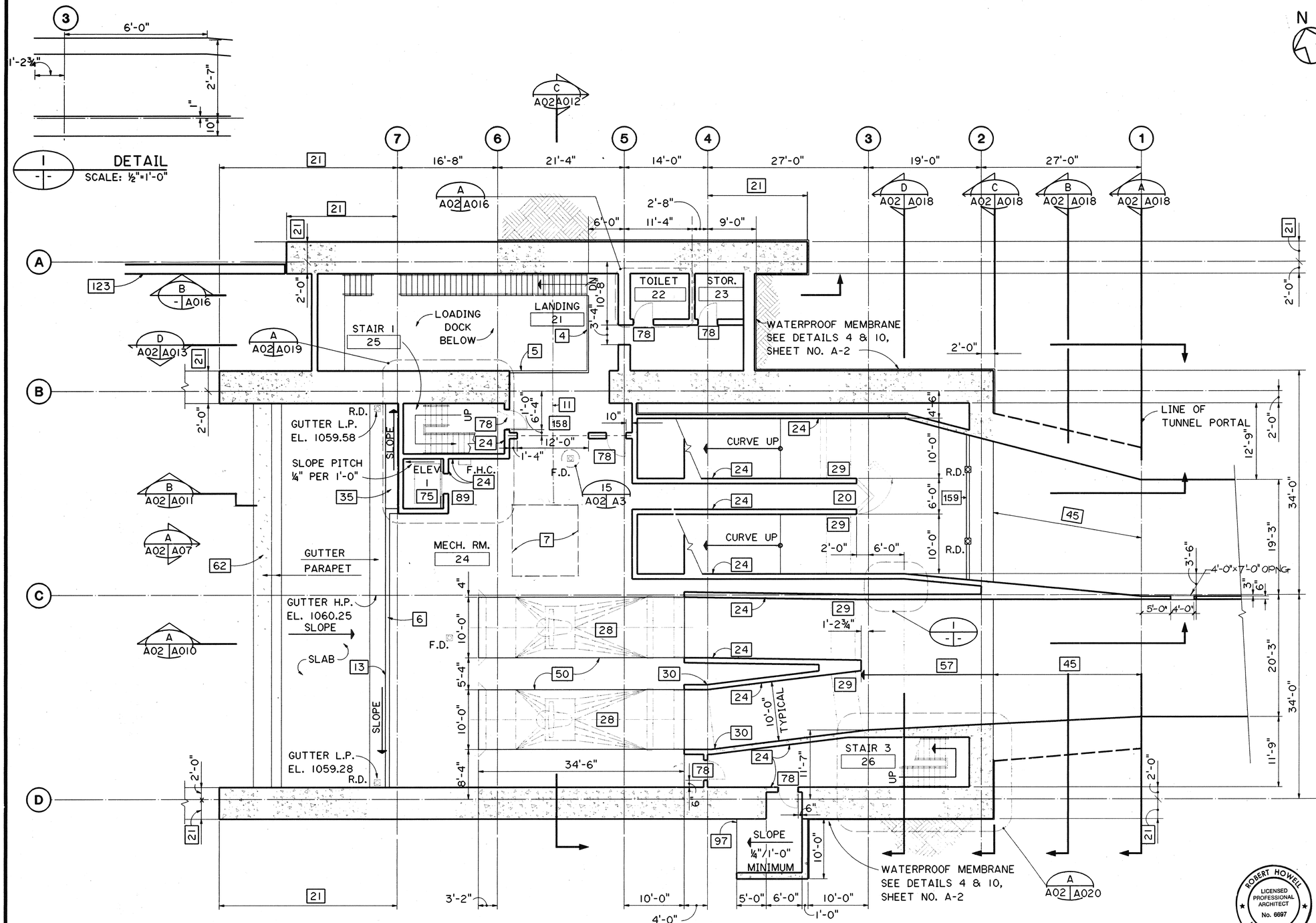
SHEET NO. A01 OF 21 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	2 JAN 90
NOTE BOOK	TRACED BY	2 JAN 90
NO.	DESIGNED BY R. HOWELL	2 JAN 90
	QUANTITIES BY	2 JAN 90
	CHECKED BY G. FREY	2 JAN 90

2410V141 2410: V141 AS0076.FGB11 09MAY90-10.19.10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	199	531

1 DETAIL
SCALE: ½"=1'-0"



LEVEL 2 PLAN
T.O.C. EL. = 1061.85 U.N.O.

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

KEYED NOTES:

- 4 RAIL, SEE 4/A5
- 5 REMOVABLE RAIL, SEE 6/A5 (SIM.)
- 6 CONCRETE CURB
- 7 FLOOR OPENING ABOVE
- 11 OVERHEAD MONORAIL CRANE
- 13 LOUVERS (N.I.C.)
- 20 SPECIAL ACCESS DOOR TO PLENUM (N.I.C.)
- 21 SEE ELEVATION FOR DIMENSION
- 23 12" WALL
- 24 10" WALL
- 28 SUPPLY FAN (N.I.C.)
- 29 ATTENUATOR (N.I.C.)
- 30 MITER @ CONCRETE DUCT TO MAINTAIN CONSTANT CROSS SECTION
- 35 PITCH 2" FOR DRAINAGE
- 45 SLAB TRANSITION FROM CURVED TO FLAT
- 50 4" HIGH X 10' WIDE X 34'-6" LONG CONCRETE PAD
- 57 TAPER 1'-0" TO STRUCTURAL SLAB
- 62 SANDBLAST TEXTURE
- 75 ELEVATOR (N.I.C.)
- 78 OPENING 3'-4½" WIDE X 7'-2¼" HIGH
- 89 OPENING 4'-6" WIDE X 7'-6" HIGH
- 97 CONCRETE SLAB - EXTEND TO GRADE
- 123 RETAINING WALL - SEE "AC" DRAWINGS
- 158 OPENING 12'-0"WIDE X 15'-6"HIGH
- 159 DRAIN TRENCH, SEE MECHANICAL DRWGS

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. A01 FOR ROOM FINISHES

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 2 PLAN

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A02 OF 21 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6997 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

ORIGINAL PLAN	DATE	SURVEY PLOTTED BY	
NOTE BOOK	NO.	DRAWN BY	CADD
		TRACED BY	R. HOWELL
		DESIGNED BY	
		QUANTITIES BY	
		CHECKED BY	G. TREY

2410V141 2410: V141 AS0077.FGB;1 22MAY90-11.31.40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	200	531

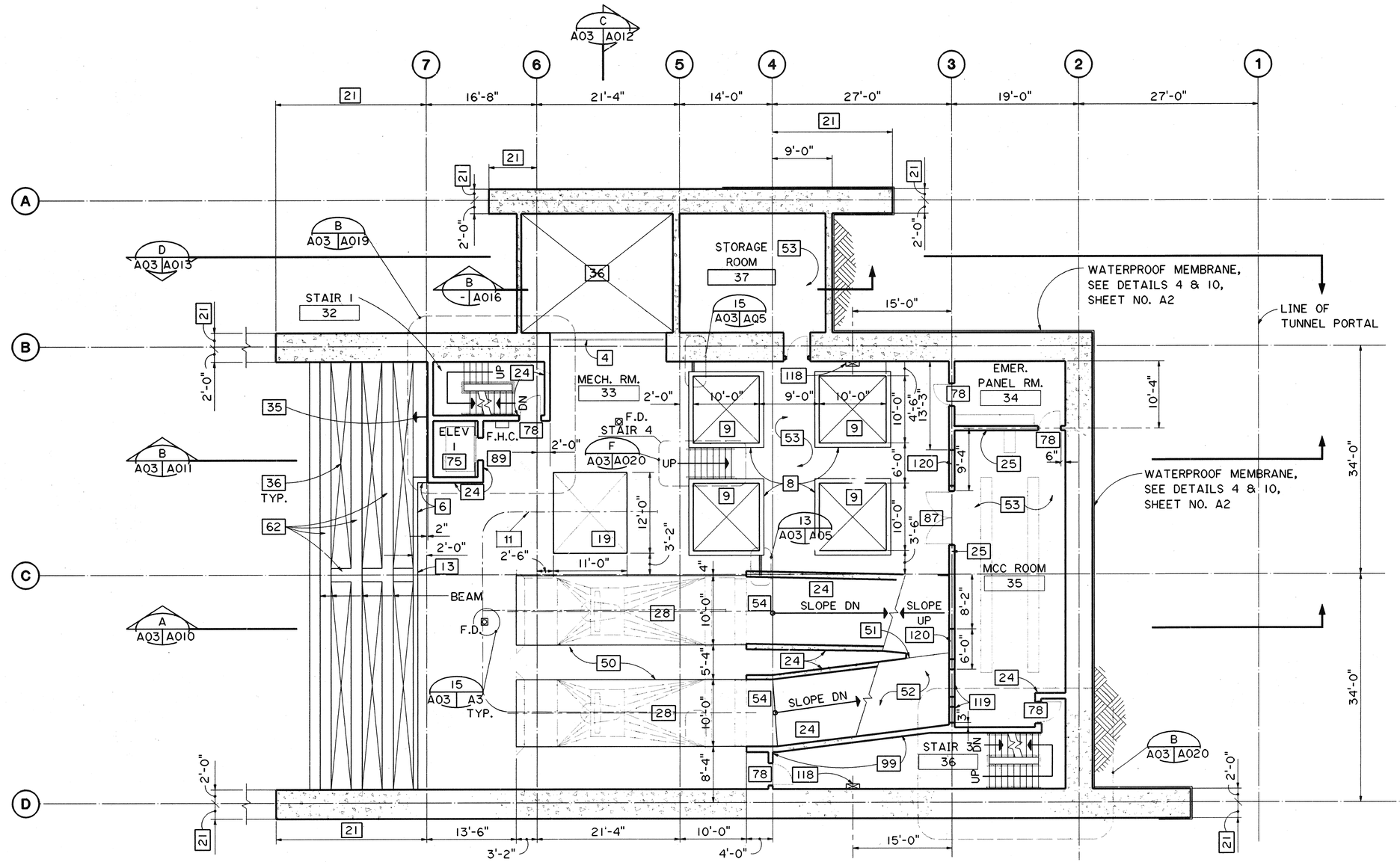
N

KEYED NOTES

4 RAIL, SEE 14/A5
6 CONCRETE CURB
8 RAISED CURB
9 OPENING FOR EXHAUST FAN
11 OVERHEAD MONORAIL CRANE
13 LOUVERS (N.I.C.)
19 REMOVABLE FLOOR PANEL
21 SEE ELEVATION FOR DIMENSION
24 10" WALL
25 8" WALL
28 SUPPLY FAN (N.I.C.)
35 PITCH 2" FOR DRAINAGE
36 OPEN TO BELOW
50 4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
51 DUCT VALLEY
52 ROOF OF DUCTWORK CONCRETE
53 RAISED SLAB +4.5'
54 ENCLOSURE AT SUPPLY FANS
62 SANDBLAST TEXTURE
75 ELEVATOR (N.I.C.)
78 OPENING 3'-4½" WIDE X 7'-2¼" HIGH
87 OPENING 8'-4½" WIDE X 10'-2¼" HIGH
89 OPENING 4'-6" WIDE X 7'-6" HIGH
99 WALL EXTENDS TO DECK ABOVE
118 9" X 2'-0" OPENING TO BELOW
119 2'-6" WIDE X 1'-0" HIGH OPENING ℄ @ 9'-3" A.F.F.
120 4'-6" WIDE X 1'-0" HIGH OPENING ℄ @ 9'-3" A.F.F.

GENERAL NOTES:

1. DOORS AND FRAMES (N.I.C.)
2. SEE SHEET NO. A01 FOR ROOM FINISHES.



LEVEL 3 PLAN

T.O.C. EL. = 1081.85 U.N.O.

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 3 PLAN

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A03 OF 21 SHEETS

ORIGINAL PLAN	NOTE BOOK	NO.

SURVEY PLOTTED BY ..... CADD ..... DATE 10JAN90
TRACED BY ..... DATE 10JAN90
DESIGNED BY ..... R. HOWELL ..... DATE 10JAN90
QUANTITIES BY ..... DATE 10JAN90
CHECKED BY ..... C. FREY ..... DATE 10JAN90

2410V141 2410: V141 AS0078.FGB>1 18JUN90-09.40.20

200

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	201	531

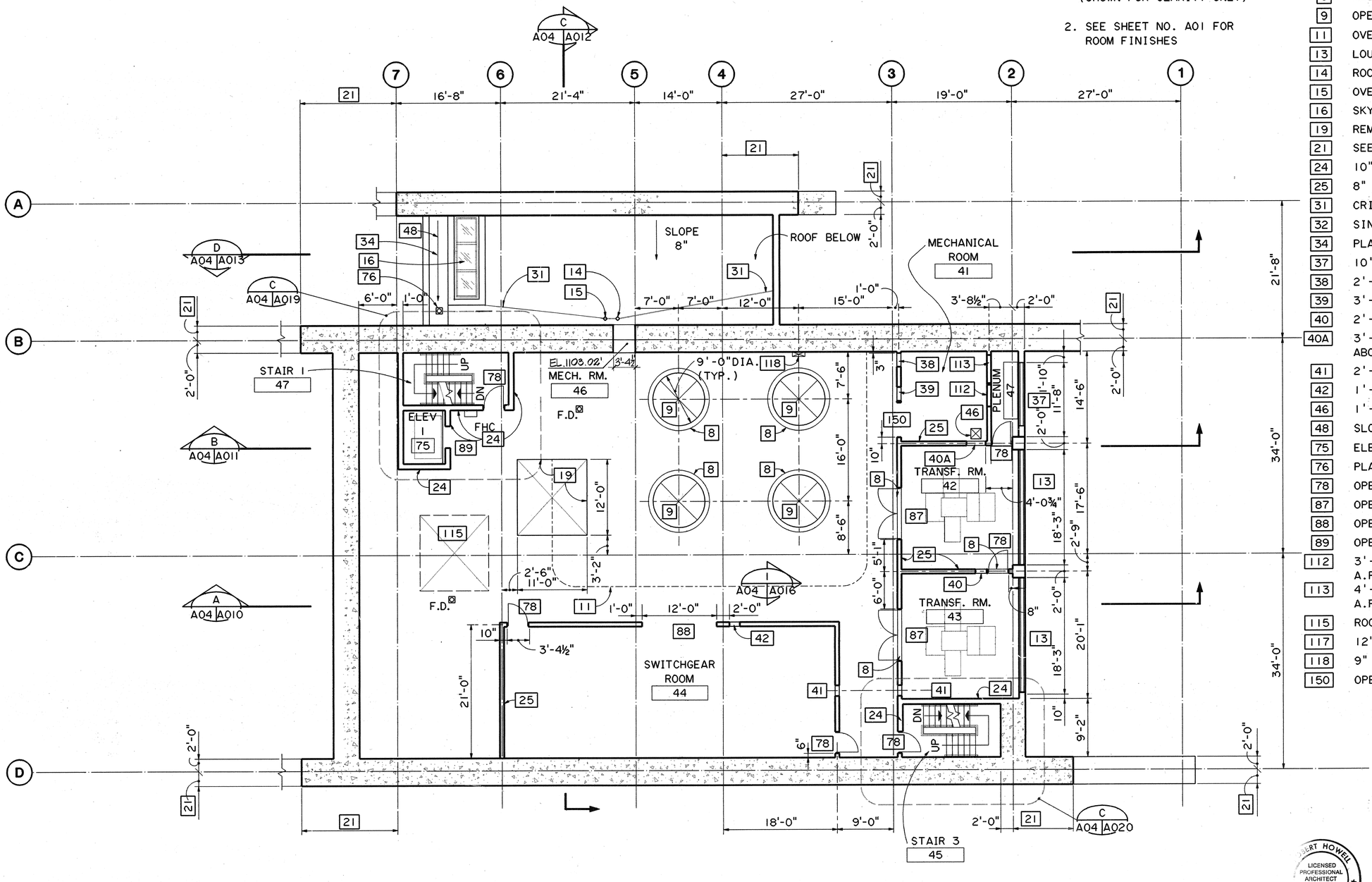
GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. A01 FOR ROOM FINISHES

N

KEYED NOTES:

8	RAISED CURB
9	OPENING FOR EXHAUST FAN
11	OVERHEAD MONORAIL CRANE
13	LOUVERS (N.I.C.)
14	ROOF DRAIN
15	OVERFLOW DRAIN
16	SKYLIGHT (N.I.C.)
19	REMOVABLE FLOOR PANEL
21	SEE ELEVATION FOR DIMENSION
24	10" WALL
25	8" WALL
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
34	PLANTER
37	10'-0" X 10'-0" LOUVER (N.I.C.)
38	2'-6" X 4'-6" OPNG., BOT. @ 7'-9" A.F.F.
39	3'-0" X 2'-0" OPNG., BOT. @ 11'-9" A.F.F.
40	2'-6" X 2'-4" OPNG., TOP @ BOT. OF SLAB ABOVE
40A	3'-0" X 2'-6" OPNG., TOP @ BOT. OF CONC. SLAB ABOVE
41	2'-6" X 2'-6" OPNG., BOT. @ 11'-9" A.F.F.
42	1'-8" X 1'-6" OPNG., BOT. @ 1'-6" A.F.F.
46	1'-6" X 1'-6" OPENING TO BELOW
48	SLOPE 6"
75	ELEVATOR (N.I.C.)
76	PLANTER DRAIN
78	OPENING 3'-4½" WIDE X 7'-2¼" HIGH
87	OPENING 8'-4½" WIDE X 10'-2¼" HIGH
88	OPENING 12'-0" WIDE X 10'-0" HIGH
89	OPENING 4'-6" WIDE X 7'-6" HIGH
112	3'-9¼" WIDE X 6-½" HIGH OPNG., BOT. @ 1'-0" A.F.F.
113	4'-6" WIDE X 4'-6" HIGH OPNG., BOT. @ 7'-9" A.F.F.
115	ROOF HATCH ABOVE (N.I.C.)
117	12" X 16" OPENING., BOT. @ 13'-3" A.F.F.
118	9" X 2'-0" OPENING TO BELOW
150	OPENING 5'-4½" WIDE X 7'-2¼" HIGH



LEVEL 4 PLAN

T.O.C. EL. = 1101.35 U.N.O.

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEVEL 4 PLAN

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

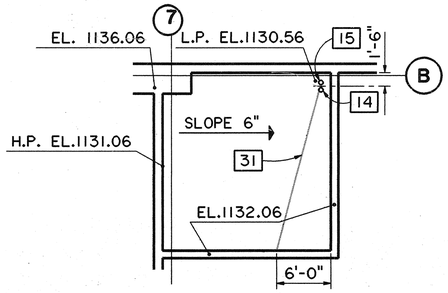
SCALE: ⅛"=1-0" DATE: JUN 1990

SHEET NO. A04 OF 21 SHEETS

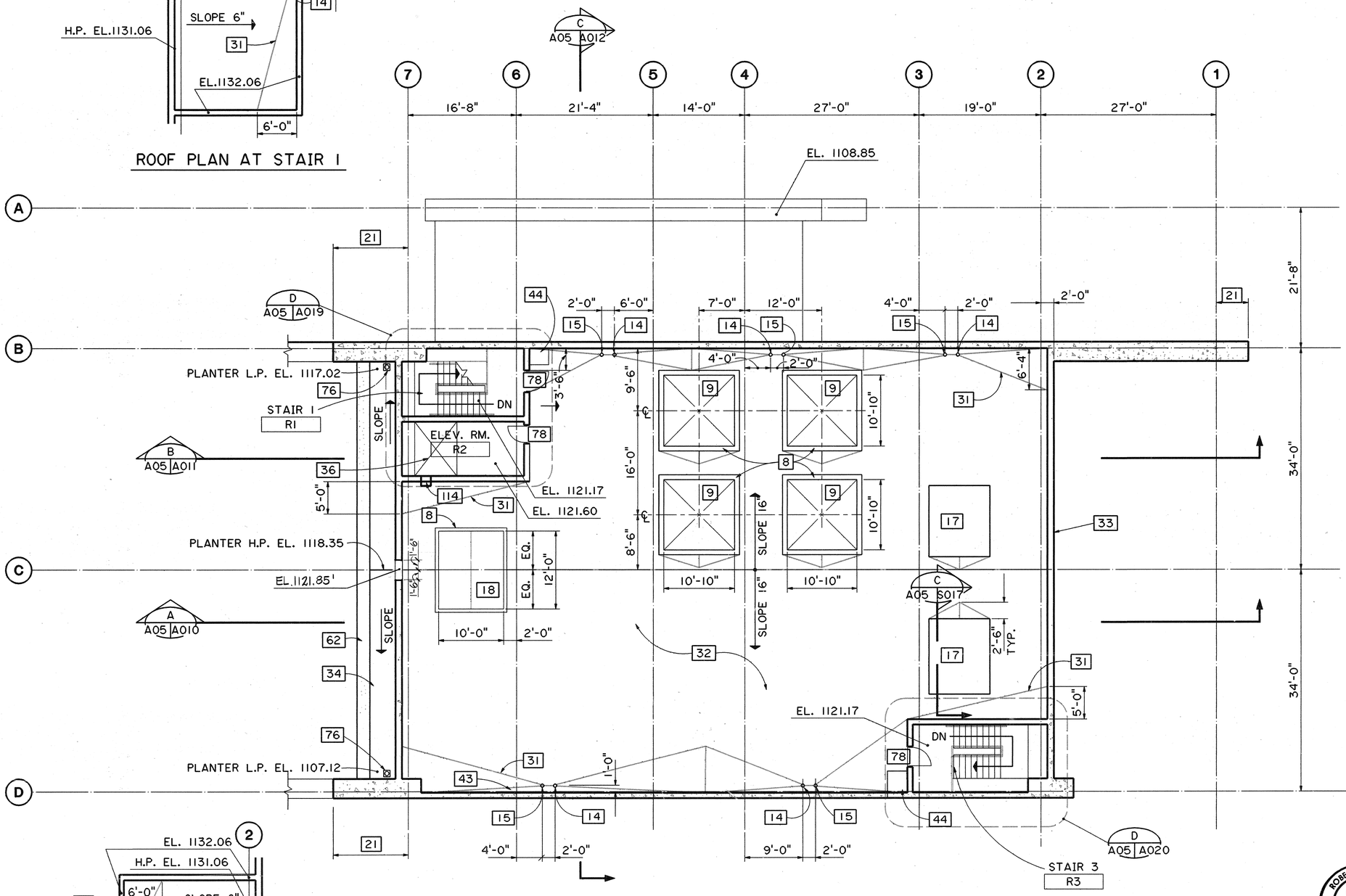
ORIGINAL PLAN	SURVEY PLOTTED BY	CAUG DATE 9JAN90
	DRAWN BY	
NOTE BOOK	TRACED BY	R. HOWELL 12JAN90
	DESIGNED BY	
NO.	QUANTITIES BY	22JUN90
	CHECKED BY	

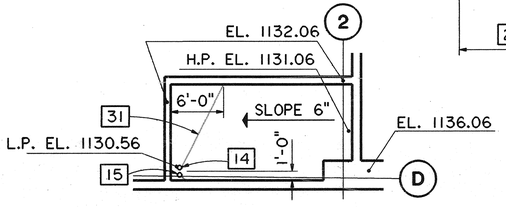
2410V141 2410: V141 AS0079.FGB;1 22MAY90-12.09.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO:	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	202	531



ROOF PLAN AT STAIR 1





ROOF PLAN AT STAIR 3

KEYED NOTES:

- 8 RAISED CURB
- 9 OPENING FOR EXHAUST FAN
- 14 ROOF DRAIN
- 15 OVERFLOW DRAIN
- 16 SKYLIGHT (N.I.C.)
- 17 ROOF VENT
- 18 ROOF HATCH (N.I.C.)
- 21 SEE ELEVATION FOR DIMENSION
- 31 CRICKET
- 32 SINGLE PLY MEMBRANE ROOFING
- 33 PARAPET
- 34 PLANTER
- 36 OPEN TO BELOW
- 43 SLOPE UP 2" TO PARAPET (TYP. ALL ROOF DRAINS)
- 44 3'-0" X 3'-0" SPLASH BLOCK
- 62 SANDBLAST TEXTURE
- 76 PLANTER DRAIN
- 78 OPENING 3'-4½" WIDE X 7'-2½" HIGH
- 114 18" X 18" EXHAUST LOUVER, BOT. @ 8'-0" A.F.F.

GENERAL NOTES:

1. DOORS AND FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)
2. SEE SHEET NO. A01 FOR ROOM FINISHES

ROOF LEVEL PLAN

T.O.C. EL. = 1121.85 @ H.P.
T.O.C. EL. = 1120.52 @ L.P.

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROOF LEVEL PLAN

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

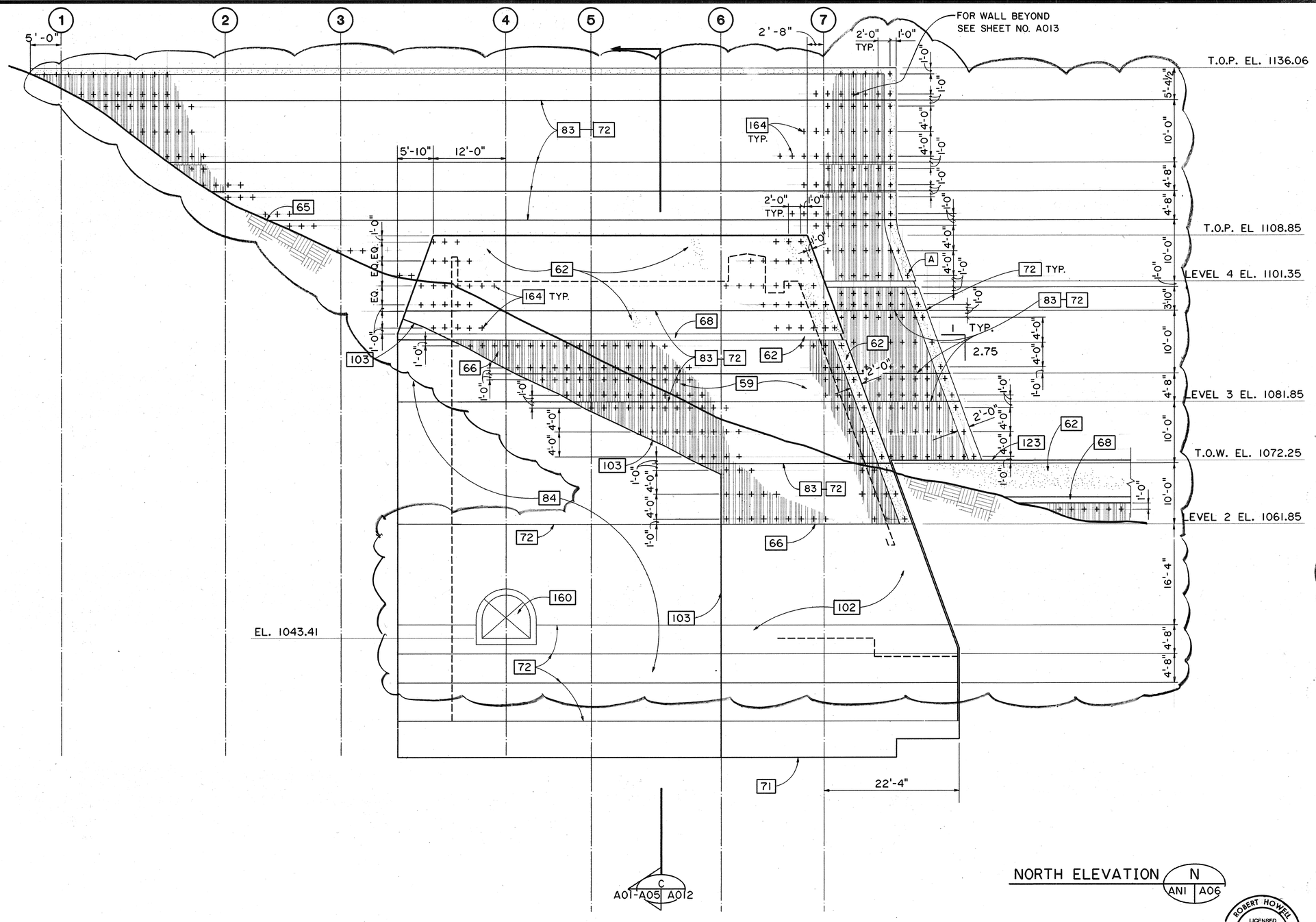
SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A05 OF 21 SHEETS

ORIGINAL PLAN	NOTE BOOK	NO.
SURVEY PLOTTED BY	DATE
DRAWN BY	CADD	21JAN90
TRACED BY	R. HOWELL	21JAN90
DESIGNED BY		21JAN90
QUANTITIES BY	C. FREY	21JAN90
CHECKED BY		21JAN90

2410V141 2410: V141 AS0086.FGB>1 29MAY90-07.21.10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	203	531



KEYED NOTES:

59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
69	MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MINIMUM BELOW DESIGN ROCK LINE
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
84	MEMBRANE WATERPROOFING
102	NO WATERPROOFING MEMBRANE
103	REGLET
105	6" CRUSHED ROCK FILL
123	RETAINING WALL - SEE "AC" DRAWINGS
160	UTILITY TUNNEL
164	FORM TIE

NOTES:

A. AT SLOPING LEADING EDGES, PLACE FORM TIES 1'-0" FROM FACE.
B. FORM TIES SHALL ALIGN VERTICALLY AND HORIZONTALLY.
C. SLOPING LEADING EDGES SHALL HAVE POUR JOINTS WHERE SHOWN. (NO 1" REVEALS AT THESE LOCATIONS OF NON-TEXTURED CONCRETE.)

FOR TYPICAL DETAIL REFERENCES SEE SHEET NO. A08

C
A01-A05 A012

NORTH ELEVATION N ANI A06

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

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Robert Howell

DATE	REVISION
8/20/92	ADDED FORM TIE AND POUR JOINT LOCATIONS PER DCN 64-036

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NORTH ELEVATION

HALAWA PORTAL BUILDING 0B
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

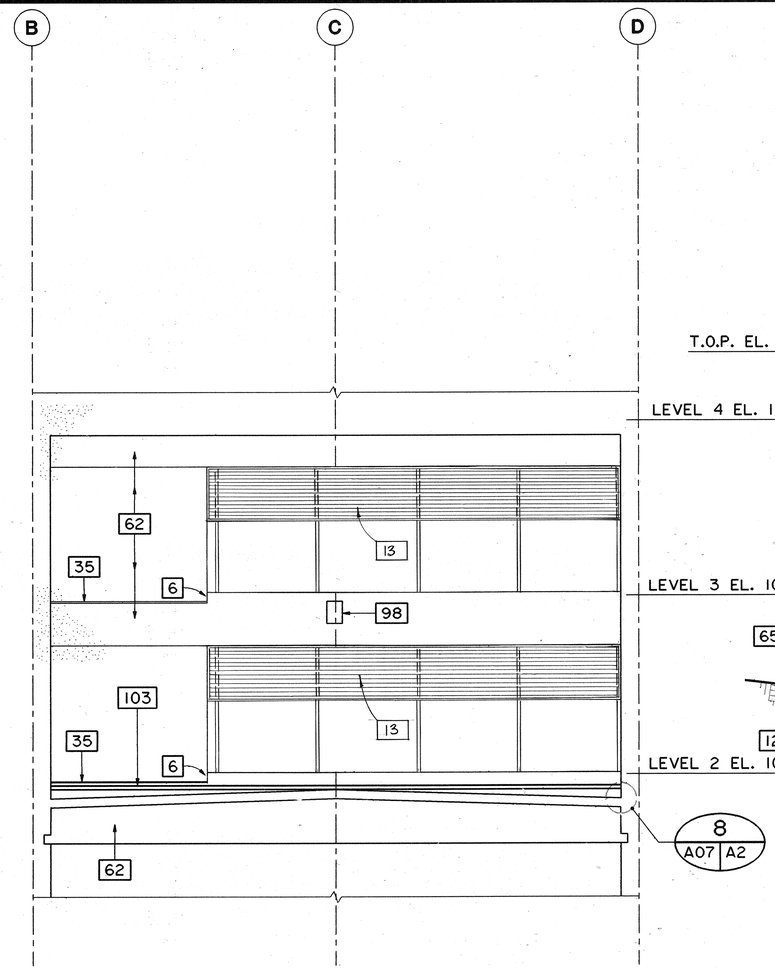
SCALE: ⅛" = 1'-0" DATE: JUN 1990

SHEET NO. A06 OF 21 SHEETS

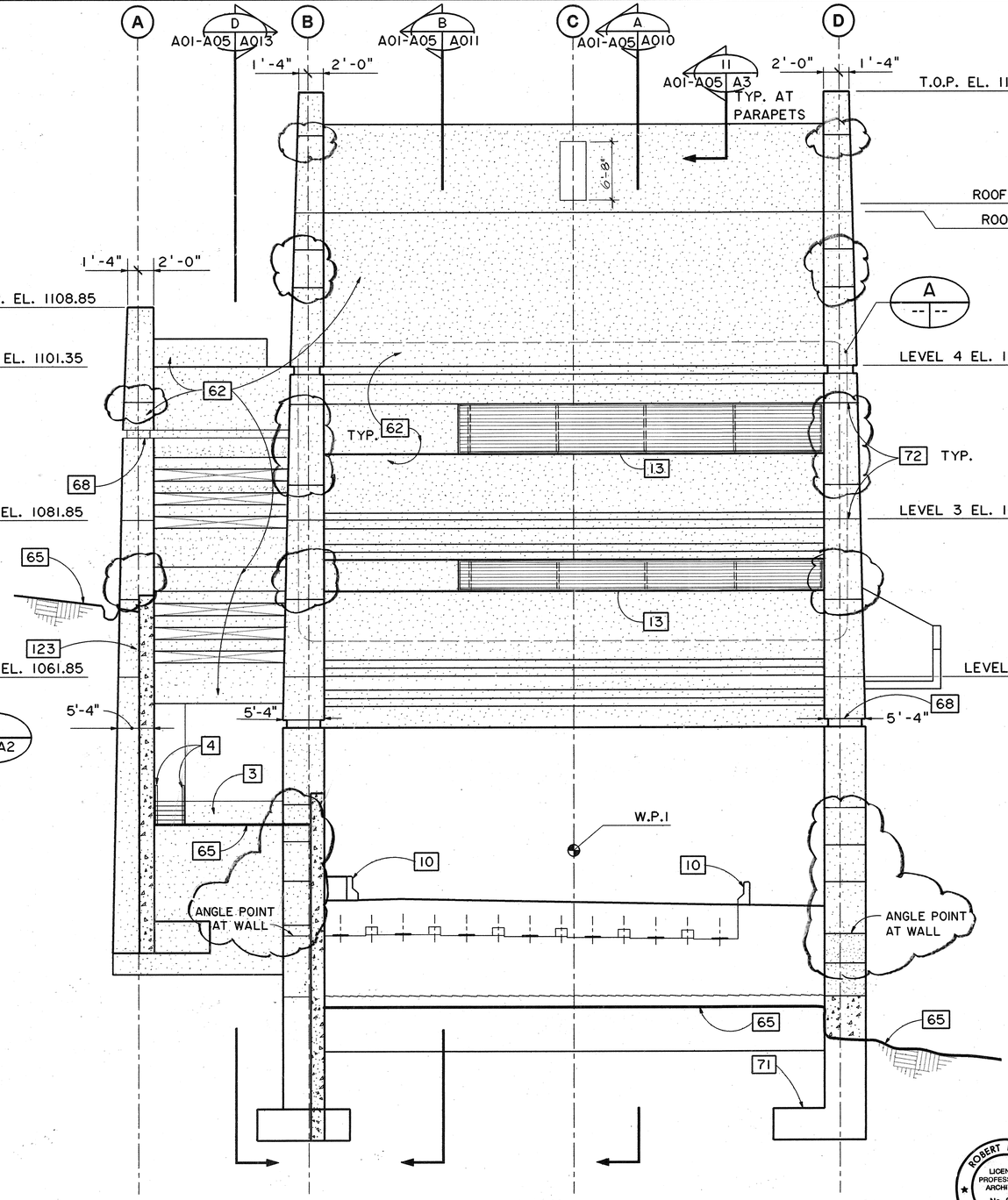
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD/YAA	19JAN90
NOTE BOOK	TRACED BY	* * *
	DESIGNED BY R. HOWELL	19JAN90
	QUANTITIES BY	* * *
NO.	CHECKED BY G. FREY	22JUN90

2410V141 2410: V141 AS0091.FGB11 27JUN90-18.24.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	204	531



EAST ELEVATION LINE 7 — A (A02 | A07)



WEST ELEVATION — W (A01 | A07)

KEYED NOTES:

3	FACE OF LOADING DOCK
4	RAIL, SEE 14/A5
6	CONCRETE CURB
10	RAIL, SEE 14/A5
13	LOUVERS (N.I.C.)
35	PITCH 2" FOR DRAINAGE
62	SANDBLAST TEXTURE
65	FINISH GRADE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
98	BRIDGING, SEE STRUCTURAL PLANS
103	REGLET

FOR TYPICAL DETAIL REFERENCES AND FORMLINER JOINT LOCATIONS SEE SHEETS NO. A08 AND A06

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

DATE	REVISION
9/1/92	ADDED POUR JT. LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEST ELEVATION

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

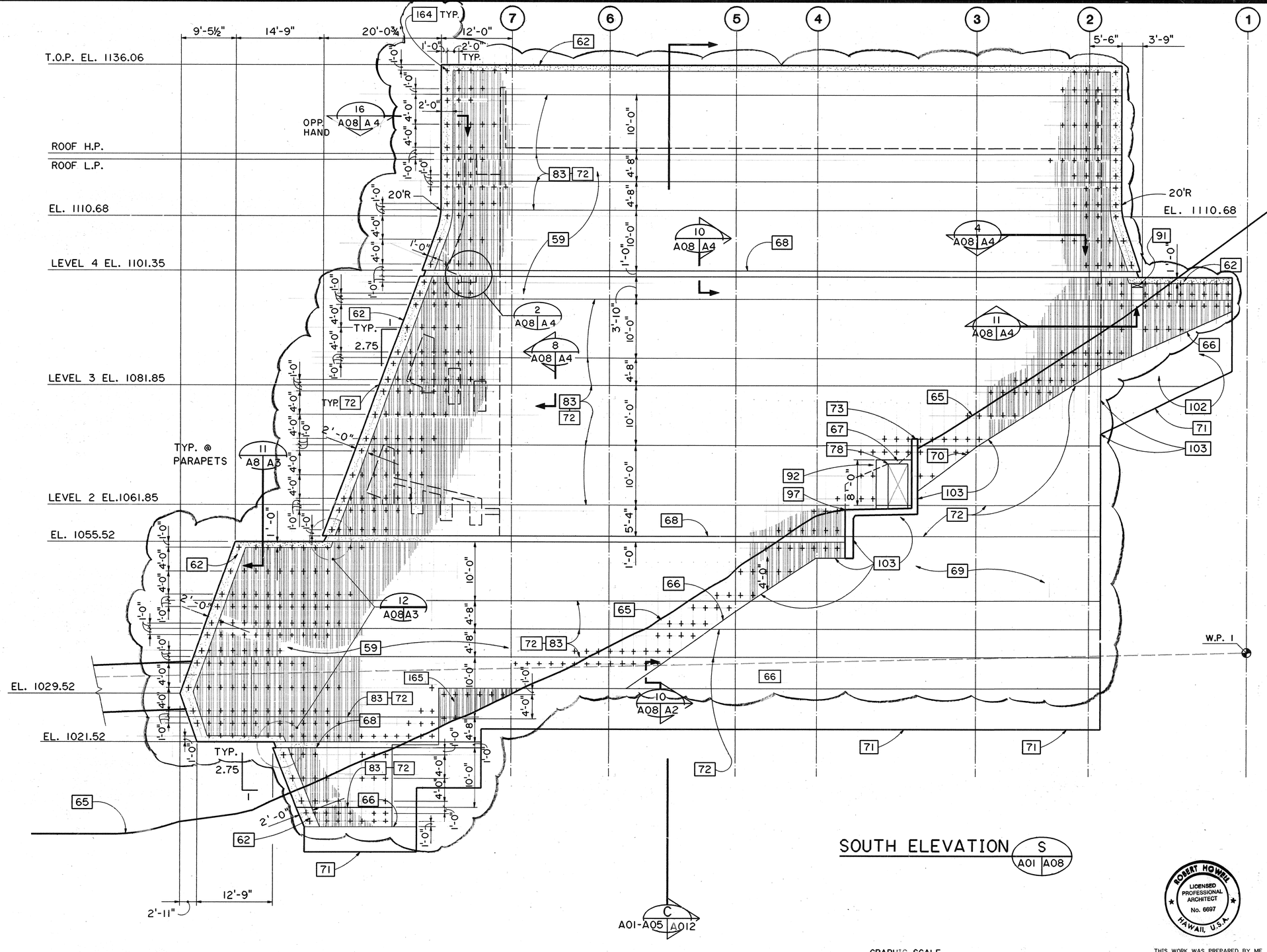
SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A07 OF 21 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	27JUN92
NO.	TRACED BY	
NOTE BOOK	DESIGNED BY R. HOWELL	27JUN92
	QUANTITIES BY	
	CHECKED BY	27JUN92

2410V141 2410: V141 AS0093.FGB>1 27JUN90-18.01.50

204



SOUTH ELEVATION S A01 A08

C A01-A05 A012

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

KEYED NOTES:

- 59 RANDOM BOARD TEXTURE
- 62 SANDBLAST TEXTURE
- 65 FINISH GRADE
- 66 LIMIT OF RANDOM BOARD TEXTURE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 69 MEMBRANE WATERPROOFING ON GRADE WALLS BELOW RANDOM BOARD TEXTURE
- 70 REGLET 4" ABOVE DESIGN ROCK LINE - SEE STRUCTURAL PLANS - U.N.O.
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION 5'-0" MIN. BELOW DESIGN ROCK LINE
- 72 POUR JOINT
- 73 CONCRETE WALL - SEE STRUCTURAL PLANS
- 78 ROUGH OPENING 3'-4⅛" WIDE X 7'-2¼" HIGH
- 83 FORMLINER JOINT, SEE 8/A4
- 91 8" X 36" DRAINAGE OPENING - SEE CIVIL PLANS
- 92 CONCRETE WALL BEHIND TO FOLLOW LINE 1'-6" MIN. ABOVE NATURAL GRADE - SEE CIVIL PLANS
- 97 CONCRETE SLAB - EXTEND TO GRADE
- 102 NO WATERPROOFING MEMBRANE
- 103 REGLET
- 164 FORM TIE
- 165 PROVIDE RANDOM BOARD TEXTURE ON FACE OF EXPOSED PORTION OF FOOTING

NOTES :

A. SEE NOTES SHEET NO. A06, REV. 8/20/92

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTA. SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	205	531

DATE	REVISION
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

ORIGINAL PLAN	
NOTE BOOK	
NO.	
SURVEY PLOTTED BY	
DRAWN BY	CADD
TRACED BY	
DESIGNED BY	R. HOWELL
QUANTITIES BY	
CHECKED BY	G. FREY
DATE	12JAN90 / 6JAN90 / 22JUN90

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SOUTH ELEVATION

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A08 OF 21 SHEETS

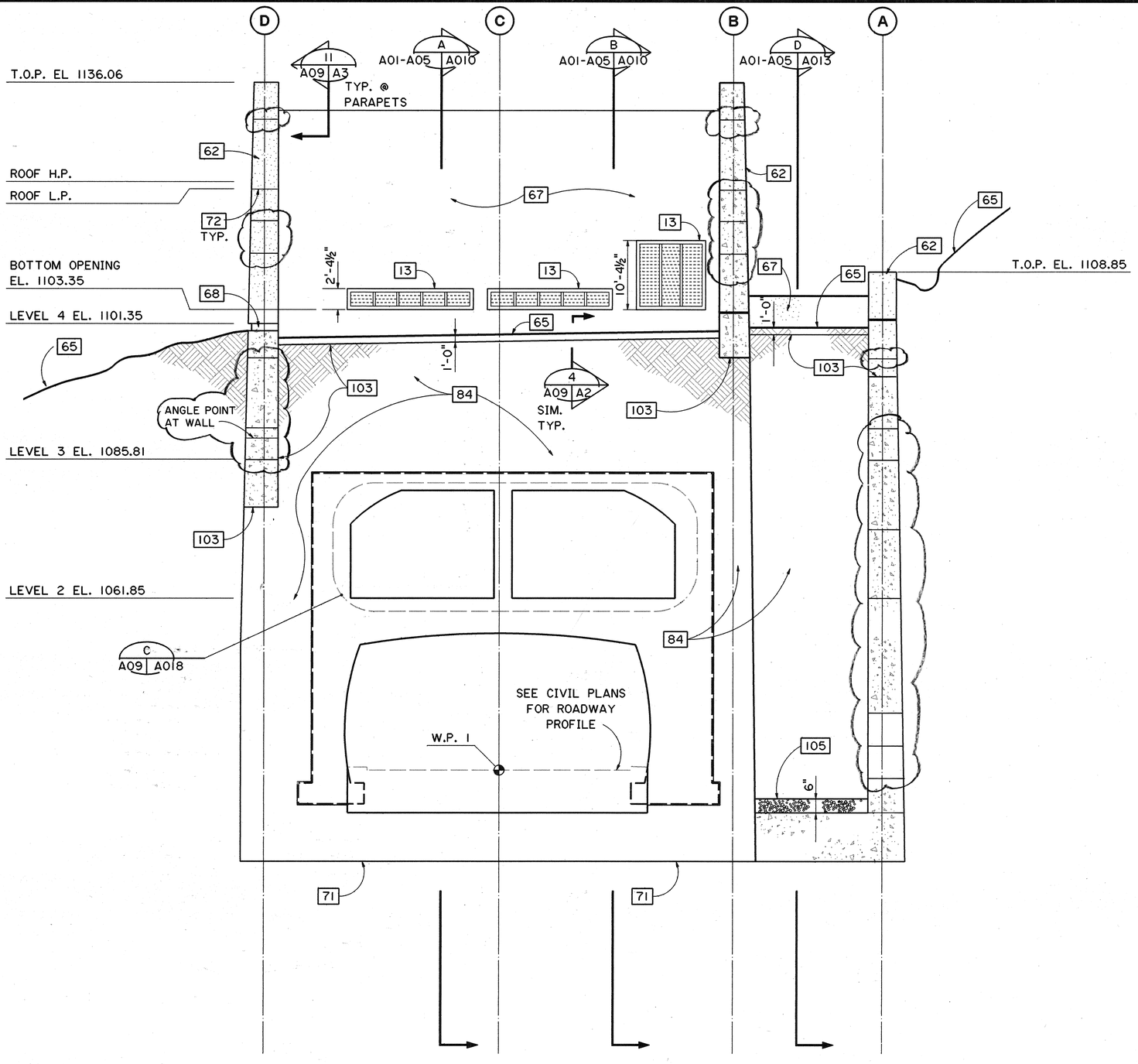
ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

2410V141 2410: V141 AS0092.FGB;1 26JUN90-15.43.50

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	206	531



EAST ELEVATION
SCALE: ⅛" = 1'-0"

E
A01 A09

KEYED NOTES:

- 13 LOUVERS (N.I.C.)
- 37 10'-0" X 10'-0" LOUVER (N.I.C.)
- 62 SANDBLAST TEXTURE
- 65 FINISH GRADE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 84 MEMBRANE WATERPROOFING
- 103 REGLET
- 105 6" CRUSHED ROCK FILL
- 72 POUR JOINT

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
9/1/92	ADDED POUR JT. LOCATIONS PER DCN64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EAST ELEVATION

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A09 OF 21 SHEETS

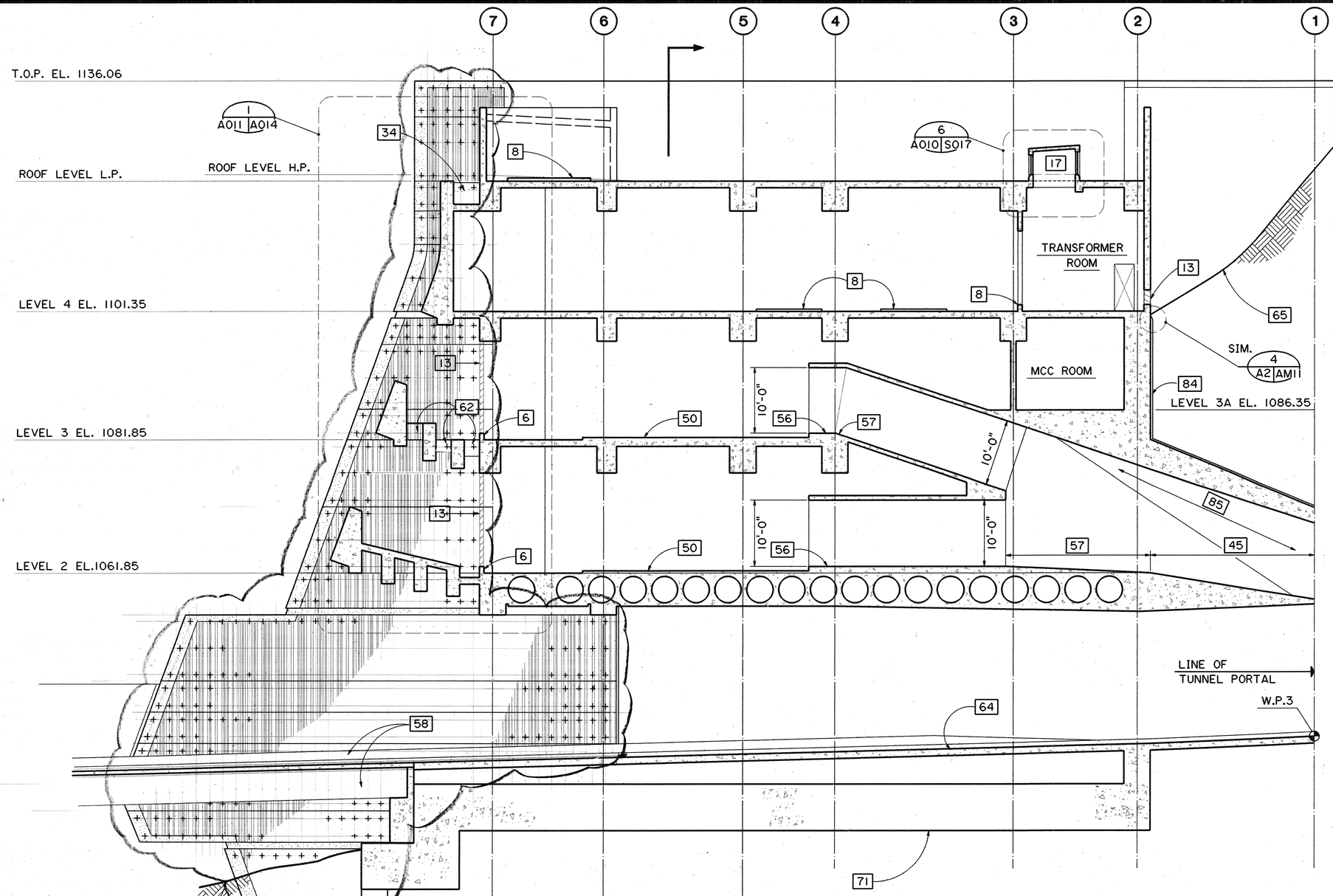
206

ORIGINAL PLAN	NOTE BOOK	NO.

SURVEY PLOTTED BY
DRAWN BY CADD 22JUN90
TRACED BY
DESIGNED BY R. HOWELL 22JUN90
QUANTITIES BY
CHECKED BY C. FREY 22JUN90

2410V141 2410: V141 AS0094.FGB;1 27JUN90-19.21.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	207	531



KEYED NOTES:

- 6 CONCRETE CURB
- 8 RAISED CURB
- 13 LOUVERS (N.I.C.)
- 17 ROOF VENT
- 34 PLANTER
- 45 SLAB TRANSITION FROM CURVED TO FLAT
- 50 4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
- 56 1'-0" CONCRETE PAD
- 57 TAPER 1'=0" TO STRUCTURAL SLAB
- 58 BRIDGE
- 62 SANDBLAST TEXTURE
- 64 ROADWAY
- 65 FINISH GRADE
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 84 MEMBRANE WATERPROOFING
- 85 CURVED FILLET - SEE SECTIONS

LONGITUDINAL SECTION A (A01 | A010)

C (A01-A05 | A012)

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

FOR TYPICAL DETAIL REFERENCES SEE SHEET NO. A011

DATE	REVISION
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL SECTION A

HALAWA PORTAL BUILDING - 0B

INTERSTATE ROUTE H-3

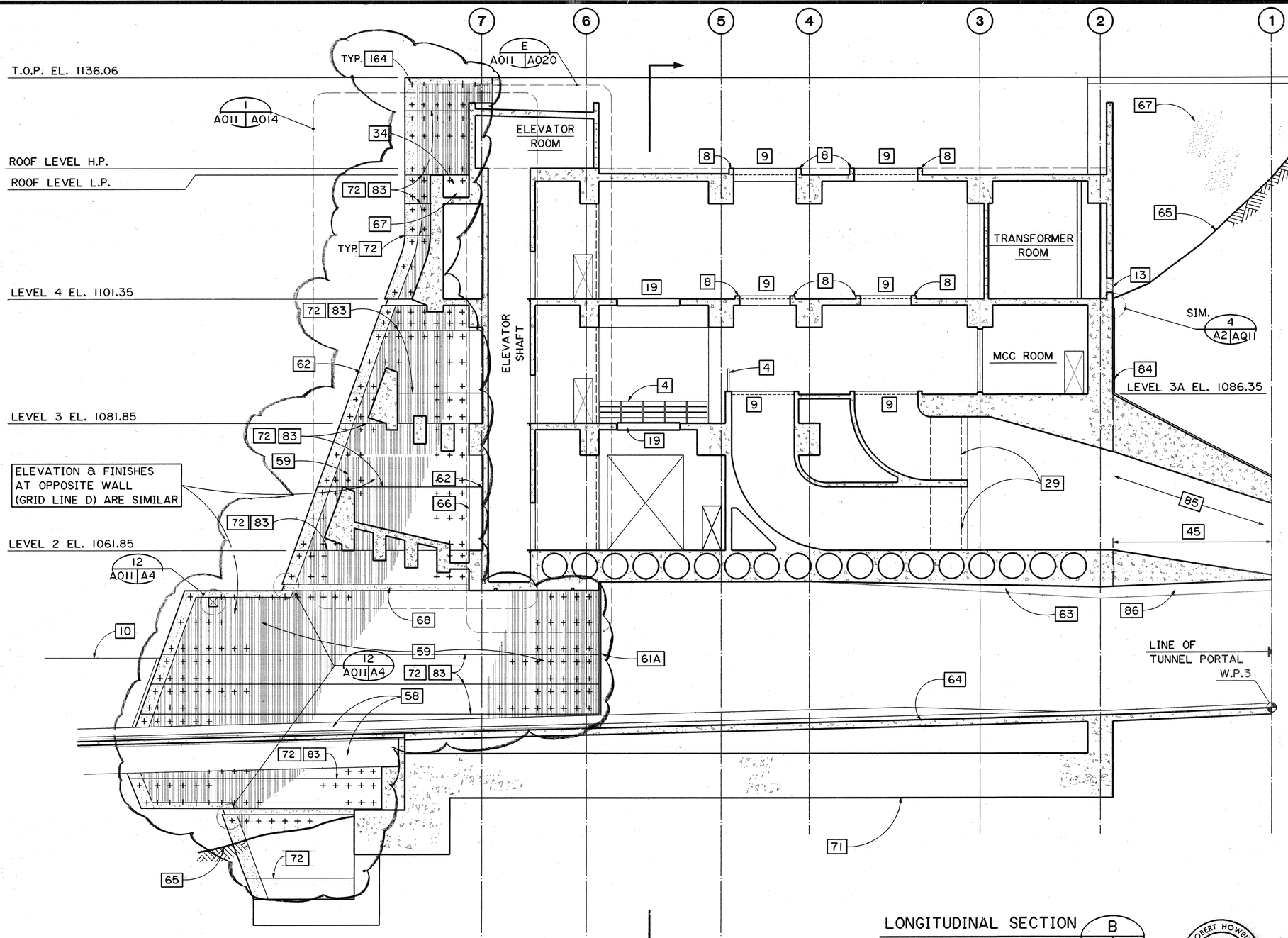
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A010 OF 21 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	CADD	DATE 21JAN92
	DRAWN BY		
NOTE BOOK	TRACED BY		
NO.	DESIGNED BY	R. HOWELL	02JAN92
	QUANTITIES BY		
	CHECKED BY	C. FREY	22JUN92

2410V141 2410: V141 AS0083.FGB,11 27JUN90-16.19.50



KEYED NOTES:

- 4 RAIL, SEE 14/A5
- 8 RAISED CURB
- 9 OPENING FOR EXHAUST FAN
- 10 BARRIER (SEE CIVIL PLANS)
- 13 LOUVERS (N.I.C.)
- 19 REMOVABLE FLOOR PANEL
- 29 ATTENUATOR (N.I.C.)
- 34 PLANTER
- 45 SLAB TRANSITION FROM CURVED TO FLAT
- 55 SAFETY WALK
- 58 BRIDGE
- 59 RANDOM BOARD TEXTURE
- 61A 2" REVEAL, SEE 14/A4 SIM.
- 62 SANDBLAST TEXTURE
- 63 TRANSITION FROM CURVED TO FLAT CEILING
- 64 ROADWAY
- 65 FINISH GRADE
- 66 LIMIT OF RANDOM BOARD TEXTURE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 83 FORMLINER JOINT, SEE 8/A4
- 84 MEMBRANE WATERPROOFING
- 85 CURVED FILLET - SEE SECTIONS
- 86 CURVED CEILING
- 105 6" CRUSHED ROCK FILL
- 72 POUR JOINT
- 164 FORM TIE

NOTES:

A. SEE NOTES SHEET NO. A06, REV. 8/20/92.

LONGITUDINAL SECTION B A01 A011

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	208	531

DATE	REVISION
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL SECTION B

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"1'-0" DATE: JUN 1990

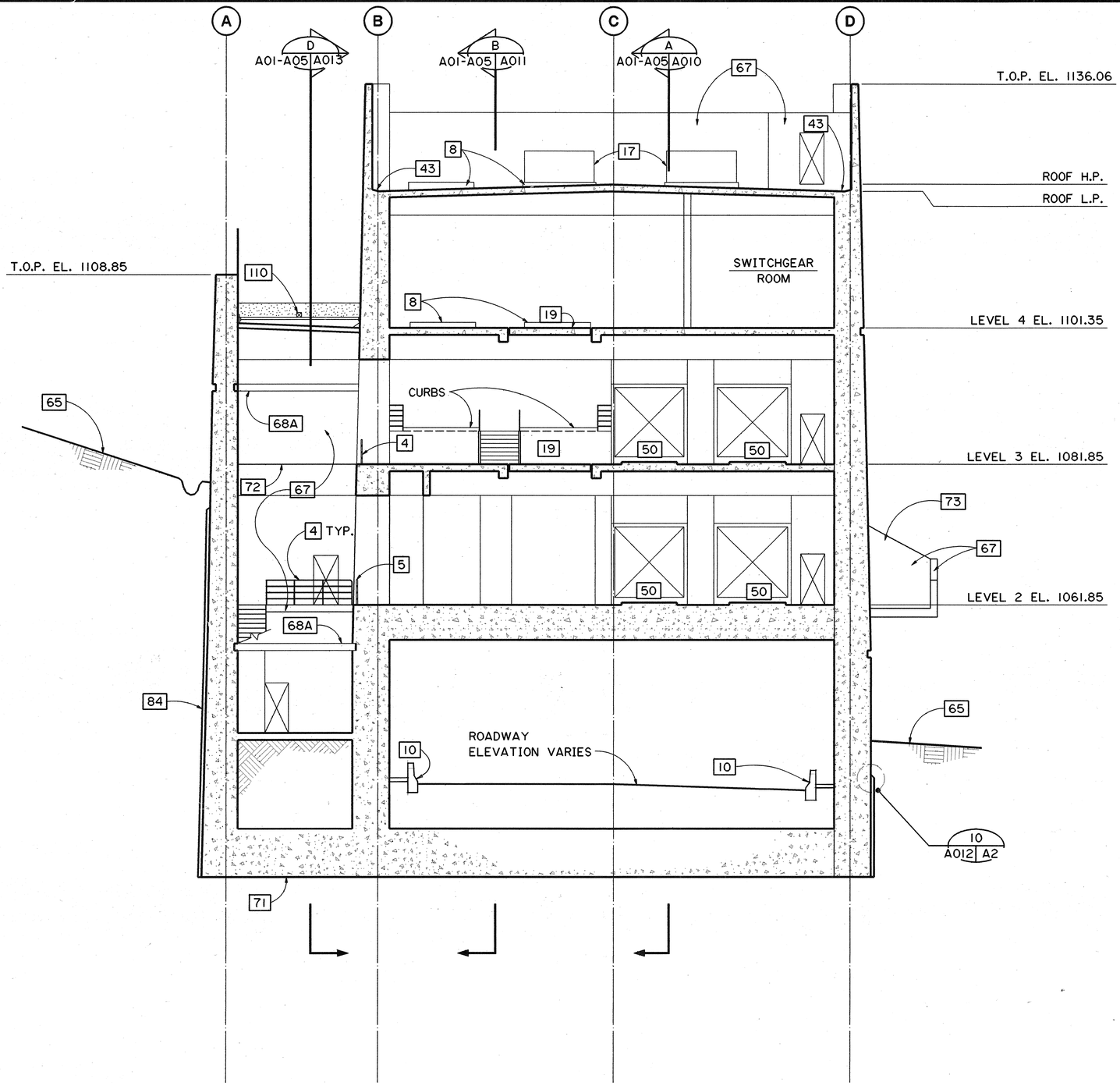
SHEET NO. A011 OF 21 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD/VAA	27JUN90
NOTE BOOK	TRACED BY	27JUN90
	DESIGNED BY R. HOWELL	27JUN90
	QUANTITIES BY	
NO.	CHECKED BY C. FREY	27JUN90

2410V141 2410: V141 AS0084.FGB:1 27JUN90-16.04.20

208

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	209	531



TRANSVERSE SECTION C A011 A012

KEYED NOTES:

- 4 RAIL, SEE 14/A5
- 5 REMOVABLE RAIL, SEE 6/A5
- 8 RAISED CURB
- 10 BARRIER (SEE CIVIL PLANS)
- 17 ROOF VENT
- 19 REMOVABLE FLOOR PANEL
- 43 SLOPE UP 2" TO PARAPET (TYPICAL ALL ROOF DRAINS)
- 19 4" HIGH X 10'-0" WIDE X 33'-3" LONG CONCRETE PAD
- 62 SANDBLAST TEXTURE
- 65 FINISH GRADE
- 67 SMOOTH FINISH CONCRETE
- 68A TYPICAL REVEAL, SEE 1/A4
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 72 POUR JOINT
- 73 CONCRETE WALL - SEE STRUCTURAL PLANS
- 84 MEMBRANE WATERPROOFING
- 110 8" X 8" WALL OPENING

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY CADD	9 JAN 90
	TRACED BY	DATE
	DESIGNED BY R. HOWELL	9 JAN 90
	QUANTITIES BY	DATE
	CHECKED BY G. FREY	29 JAN 90
NO.		

GRAPHIC SCALE
8' 4' 0' 8' 16'
⅛" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRANSVERSE SECTION C

HALAWA PORTAL BUILDING - OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: ⅛"=1'-0" DATE: JUN 1990

SHEET NO. A012 OF 21 SHEETS

2410V141 2410: V141 AS0085.FGB#1 27 -90-20.11.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	210	531

KEYED NOTES:

- 4 RAIL, SEE 14/A5
- 5 REMOVABLE RAIL, SEE 6/A5
- 59 RANDOM BOARD TEXTURE
- 62 SANDBLAST TEXTURE
- 65 FINISH GRADE
- 66 LIMIT OF RANDOM BOARD TEXTURE
- 67 SMOOTH FINISH CONCRETE
- 68 TYPICAL REVEAL, SEE 9/A4
- 69 MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
- 71 SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION - 5'-0" MIN. BELOW DESIGN ROCK LINE
- 83 FORMLINER JOINT, SEE 8/A4
- 84 MEMBRANE WATERPROOFING
- 95 EXTEND WALL TO FINISH GRADE
- 103 REGLET
- 105 6" CRUSHED ROCK FILL
- 123 RETAINING WALL - SEE "AC" PLANS
- 124 EXPANSION JOINT
- 72 POUR JOINT
- 164 FORM TIE

NOTES:

A. SEE NOTES SHEET NO. A06, REV. 8/20/92.

FOR TYPICAL DETAIL REFERENCES SEE SHEET NO. A08

LONGITUDINAL SECTION D — A01 | A013

C — A01-A05 | A012

GRAPHIC SCALE 8' 4' 0' 8' 16' — 1/8" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

Robert Howell

DATE	REVISION
9/1/92	ADDED POUR JOINT AND FORM TIE
	LOCATIONS PER DCN 64-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL SECTION D

HALAWA PORTAL BUILDING OB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET NO. A013 OF 21 SHEETS

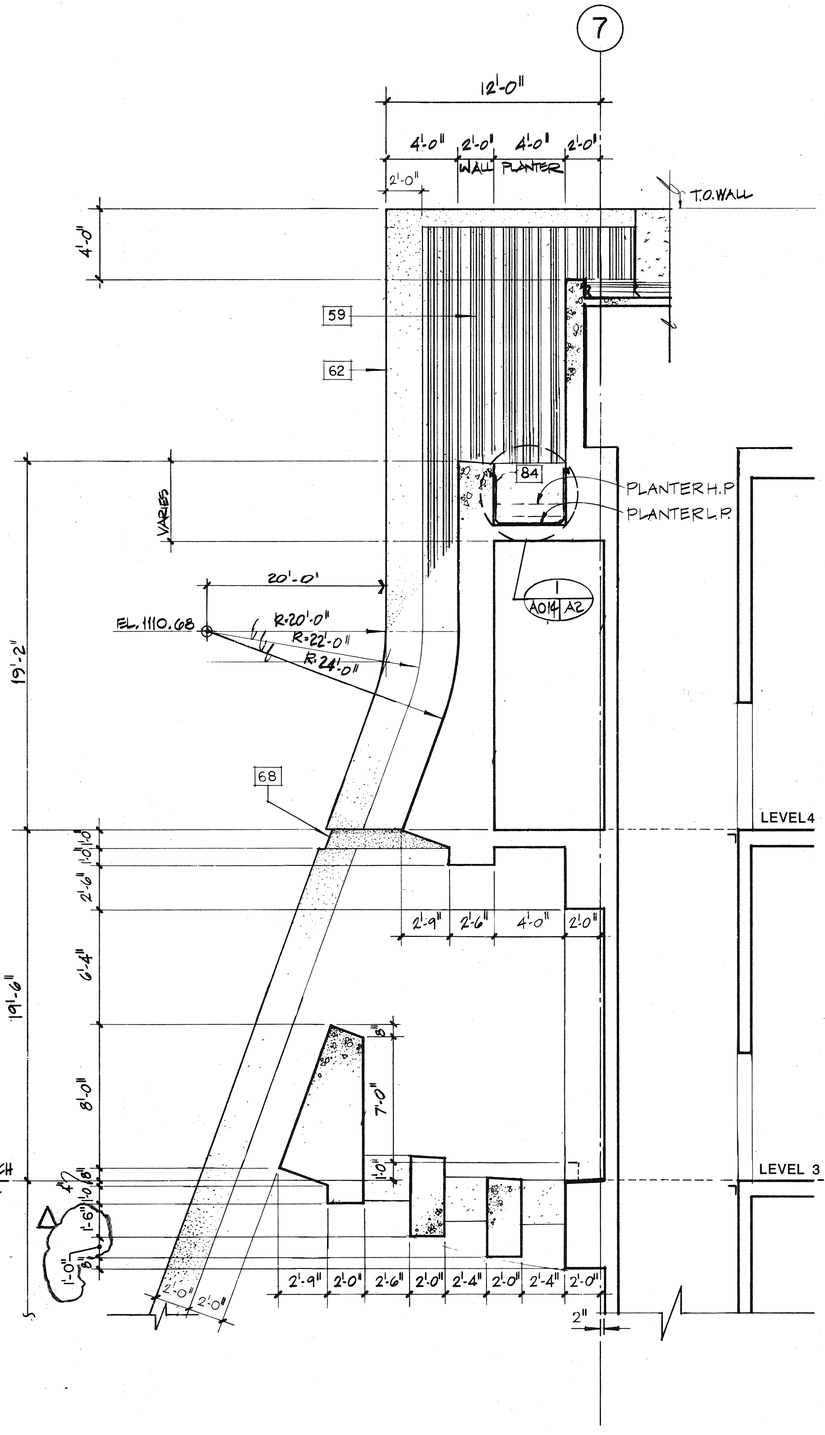
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY CADD/VAA	27JAN92
NO.	TRACED BY	27JAN92
	DESIGNED BY R. HOWELL	27JAN92
	QUANTITIES BY	27JAN92
	CHECKED BY	27JAN92

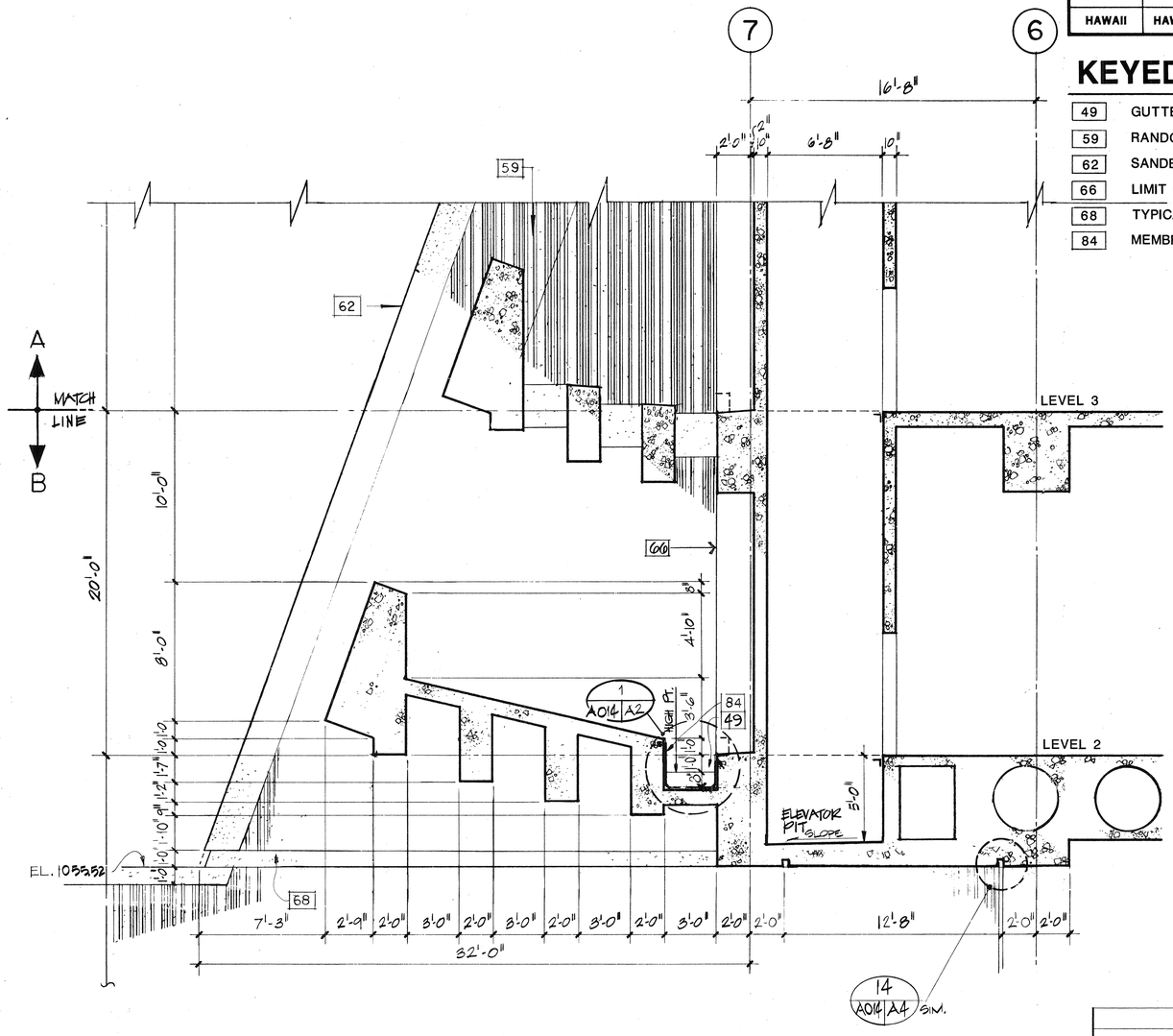
2410V141 2410: V141 AS0096.FGB;1 27JUN90-20.03.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	211	531

KEYED NOTES

49	GUTTER
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
66	LIMIT OF RANDOM BOARD TEXTURE
68	TYPICAL REVEAL, SEE 9/A4
84	MEMBRANE WATERPROOFING





DETAIL SECTION 1 A010 A014

GRAPHIC SCALE
4' 2' 0 4' 8'
1/4" = 1'-0"

10/30/91	REV. FACE BEAM DIM'S PER DCN 64-011
DATE	REVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL SECTION AT PORTAL FACE

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64):

SCALE: 1/4" = 1'-0" DATE: JUN 1990

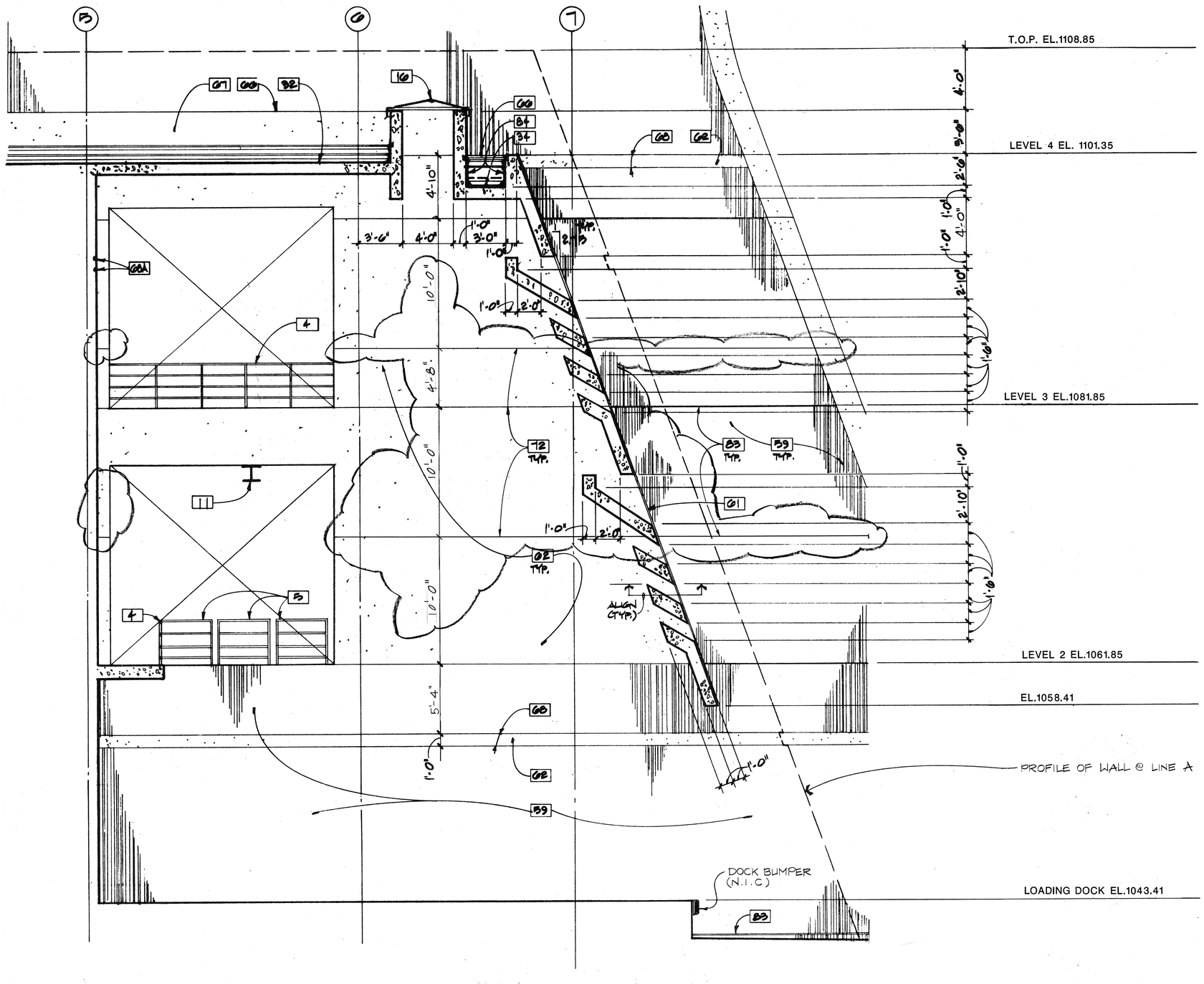
SHEET NO. A014 OF 21 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	D. BASSAN DATE 12/4/89
	DRAWN BY	DSANTOS
	TRACED BY	DSANTOS
NOTE BOOK	DESIGNED BY	R. HOWELL
	QUANTITIES BY	DSANTOS
No.	CHECKED BY	C. FREY DSANTOS

39

211

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(64)	1990	212	531



DETAIL SECTION AT LOADING DOCK

1 / A013 | A013

KEYED NOTES:

4	RAIL, SEE 14/A5
6	REMOVABLE RAIL, SEE 6/A5
16	SKYLIGHT (N.I.C.)
32	SINGLE PLY MEMBRANE ROOFING
34	PLANTER, SEE 1/A2
59	RANDOM BOARD TEXTURE
61	2" REVEAL, SEE 14/A4
62	SANDBLAST TEXTURE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
68A	TYPICAL REVEAL, SEE 1/A4
72	POUR JOINT
111	OVERHEAD MONORAIL CRANE
83	FORMLINER JOINT, SEE 8/A5
84	MEMBRANE WATERPROOFING

GRAPHIC SCALE

1/4" = 1'-0" 4' 2' 0' 4' 8'

9/1/92	ADDED POUR JT. LOCATIONS PER DCN64-037
4/14/92	REV. PER DCN 64-028
DATE	REVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL SECTION AT LOADING DOCK FACE

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

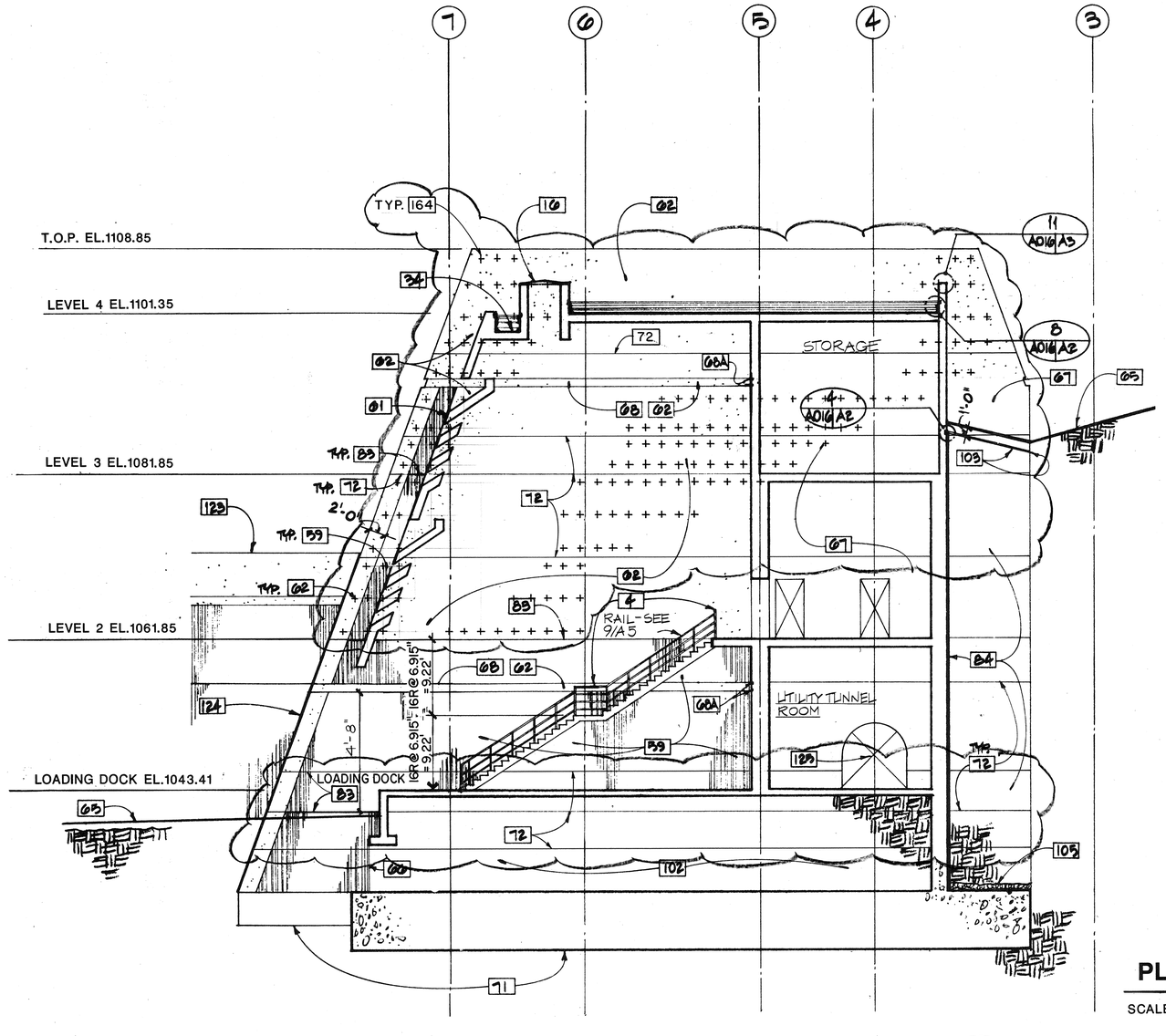
SHEET A015 OF 21 SHEETS

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

40

212

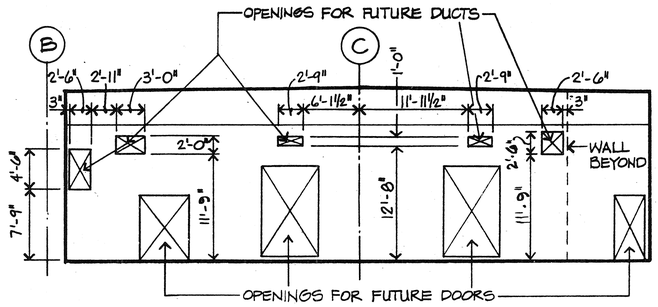
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	213	531



ELEVATION OF WALL AT LINE A

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

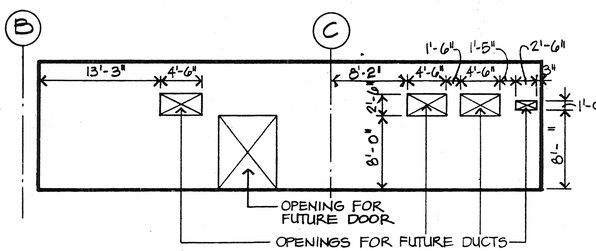
B / A03 | A016



ELEVATION - LINE 3 - LEVEL 4

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

1 / A04 | A016

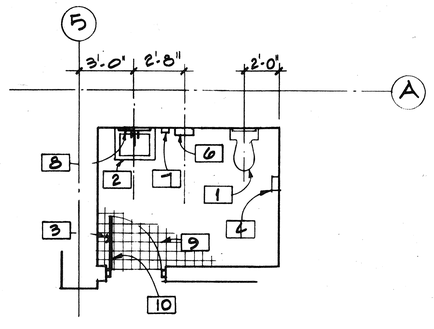


ELEVATION - LINE 3 - LEVEL 3

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

2 / A03 | A016

KEYED NOTES AT TOILET ONLY:



PLAN-TOILET AT LEVEL 2

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

A / A02 | A016

1 WATER CLOSET, N.I.C.
2 LAVATORY, N.I.C.
3 ROBE HOOK, N.I.C.
4 COMB. ASH TRAY/TOILET TOILET PAPER DISP.,N.I.C.
5 TOILET SEAT COVER DISPENSER, N.I.C.
6 COMB. PAPER TOWEL DISP./WASTE RECEPT.,N.I.C.
7 SOAP DISPENSER, N.I.C.
8 MIRROR, N.I.C.
9 CERAMIC TILE, N.I.C.
10 DOOR AND FRAME, N.I.C.

NOTE:

ALL FIXTURES AND ACCESSORIES LISTED ABOVE ARE N.I.C.

GRAPHIC SCALES

1/4" = 1'-0" 4' 2' 0' 4' 8'

1/8" = 1'-0" 8' 4' 0' 8' 16'

KEYED NOTES:

4	RAIL, SEE 14/A5
16	SKYLIGHT (N.I.C.)
34	PLANTER, SEE 1/A2
59	RANDOM BOARD TEXTURE
61	2" REVEAL, SEE 14/A4
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
68A	TYPICAL REVEAL, SEE 1/A4
71	SEE STRUCTURAL PLANS FOR BOTTOM OF FOUNDATION ELEVATION
72	POUR JOINT
83	FORMLINER JOINT, SEE 8/A4
102	NO WATERPROOFING BEYOND
103	REGLET
105	6" CRUSHED ROCK FILL
123	RETAINING WALL- SEE CONTROL BUILDING PLANS
124	EXPANSION JOINT
84	MEMBRANE WATERPROOFING
164	FORM TIE

NOTES:

A. SEE NOTES SHEET NO. A06, REV. 8/20/92

8/20/92	ADDED FORM TIE AND POUR JOINT LOCATIONS PER DCN 64-036
11/5/91	REVISED STAIRS AT LOADIND DOCK PER DCN 64-012
DATE	REVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6897 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL PLANS & INTERIOR ELEVATIONS

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

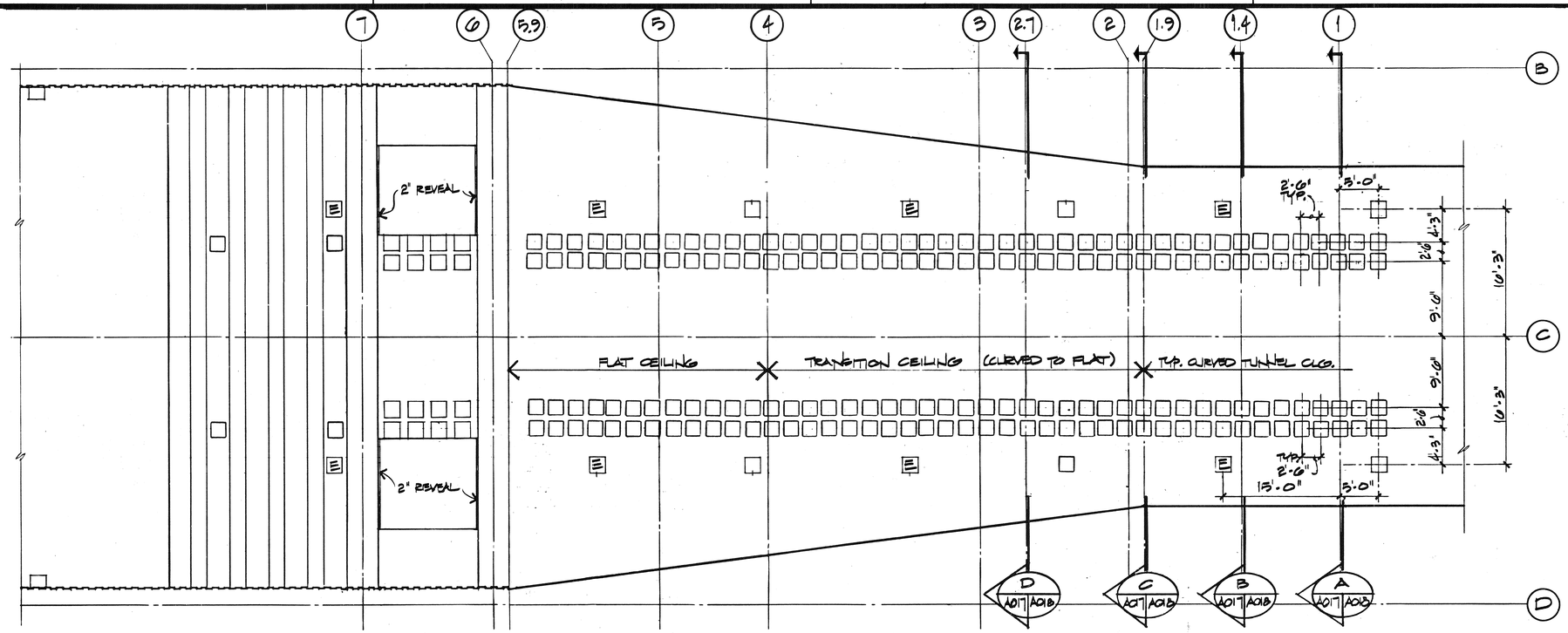
SHEET A016 OF 21 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY L. SUEUGA DATE 2/90 | DRAWN BY L. SUEUGA DATE 2/90 | TRACED BY DATE | DESIGNED BY R. HOWELL | QUANTITIES BY | CHECKED BY G. FREY | NOTE BOOK | No.

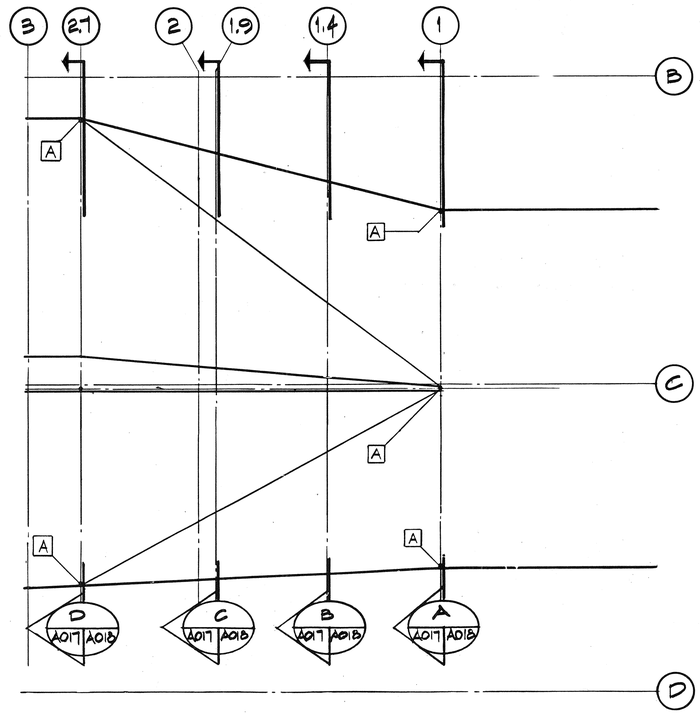
41

213

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	214	531



LEVEL 1 REFLECTED CEILING PLAN — 1 / A017



LEVEL 2 REFLECTED CEILING PLAN — 2 / A017

LEGEND

- ☐ TYPICAL LIGHT FIXTURE (N.I.C.)
- [E] EMERGENCY LIGHT FIXTURE (N.I.C.)
- [A] SEE SECTIONS FOR ELEVATIONS

GRAPHIC SCALE

10' 5' 0 5' 10' 20'

DATE	REVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REFLECTED CEILING PLAN

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8" = 1'-0" DATE: JUN 1990

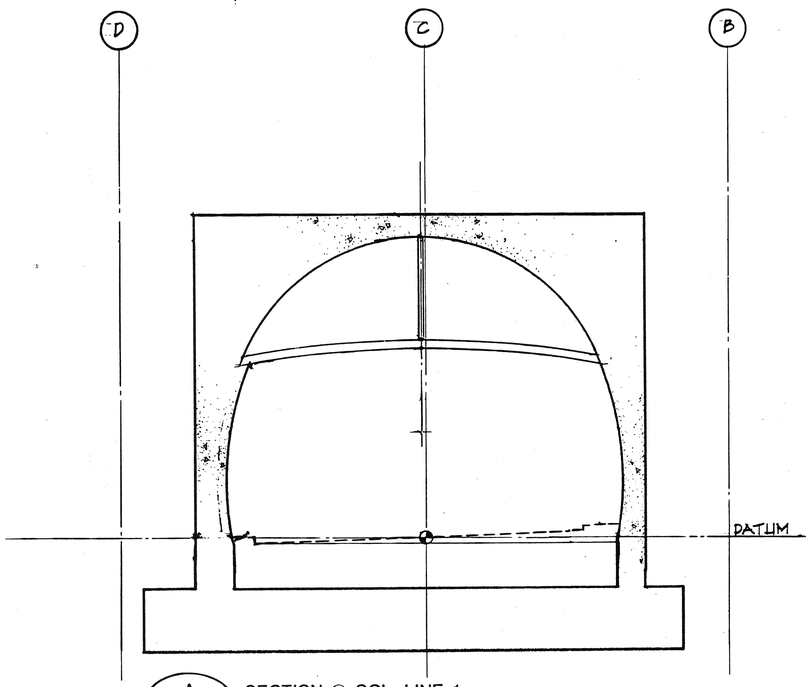
SHEET A017 OF 21 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY L. SUELOGA	9 JAN 90
	TRACED BY	
	DESIGNED BY R. HOWELL	10 JAN 90
NOTE BOOK	QUANTITIES BY	
No.	CHECKED BY G. FREY	22 JUN 90

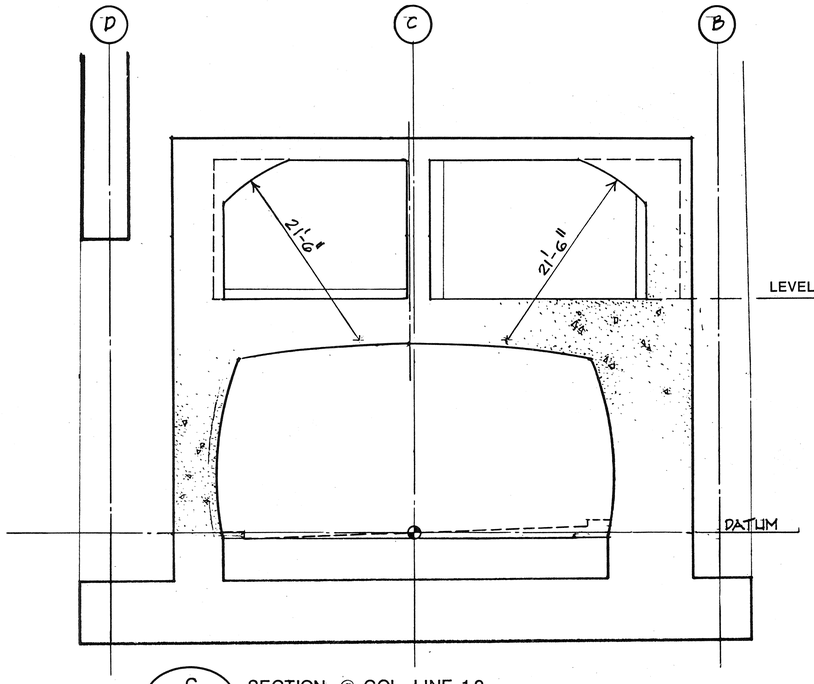
42

214

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	215	531



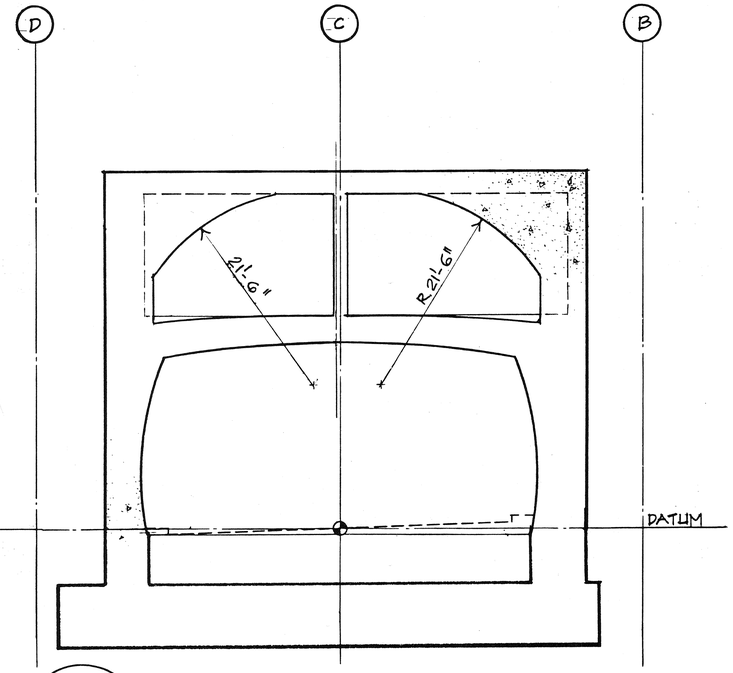
A
A01-2 A018
SECTION @ COL. LINE 1



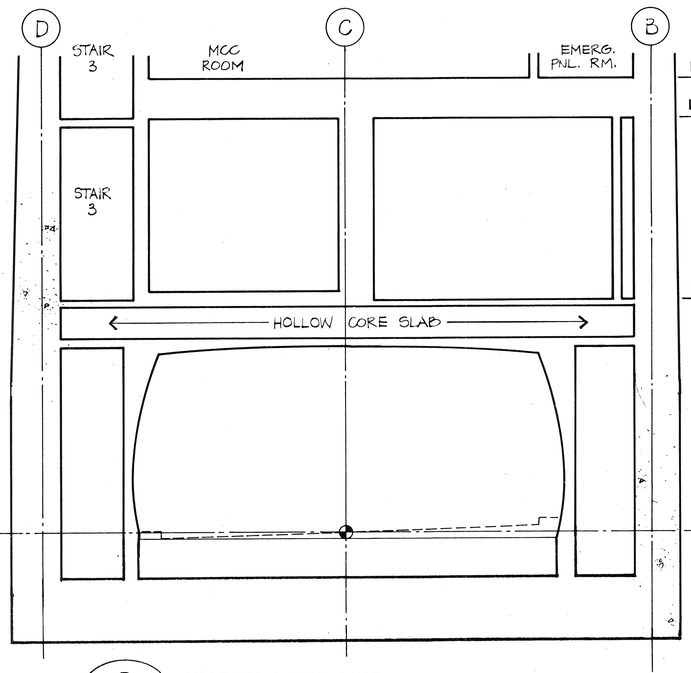
C
A01-2 A018
SECTION @ COL. LINE 1.9

GENERAL NOTES

1. REFER TO CIVIL PLANS FOR ROADWAY DATA INFORMATION
2. REFER TO STRUCTURAL PLANS FOR ALL CONCRETE TUNNEL DIMENTION INFORMATION



B
A01-2 A018
SECTION @ COL. LINE 1.4



D
A01-2 A018
SECTION @ COL. LINE 2.7

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTIONS AT CONCRETE DUCTWORK

HALAWA PORTAL BUILDING - 0B
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

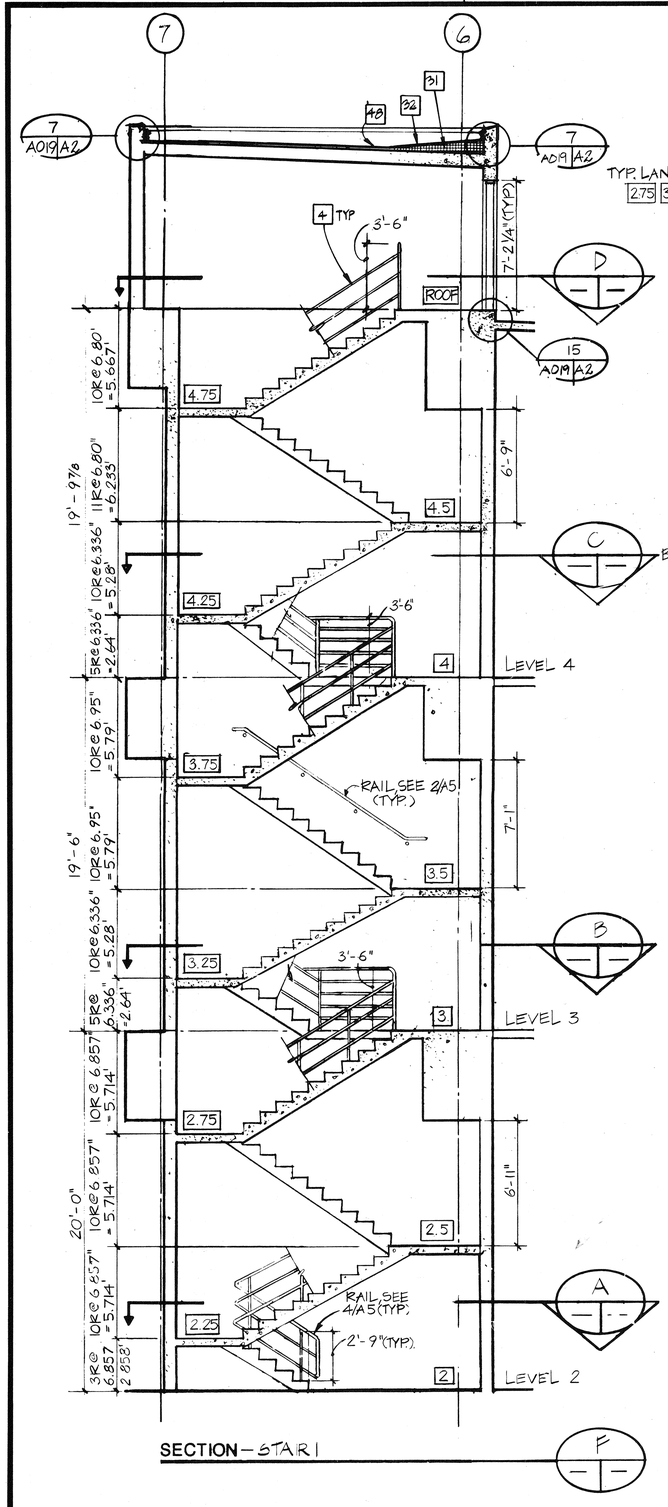
SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET A018 OF 21 SHEETS

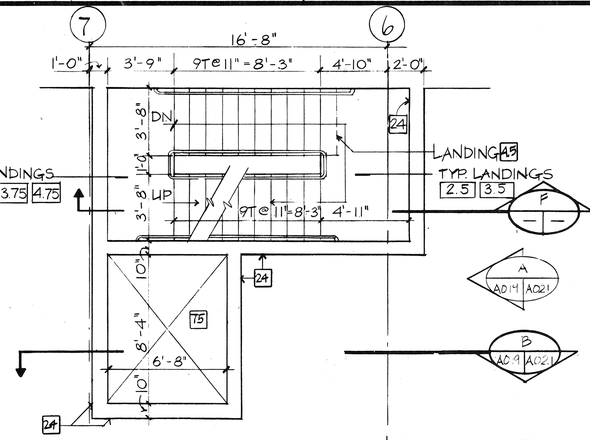
ORIGINAL PLAN	NOTE BOOK	No.	DATE
SURVEY PLOTTED BY			
DRAWN BY E. DIAZ			2 JAN 90
TRACED BY			
DESIGNED BY R. HOWELL			2 JAN 90
QUANTITIES BY			
CHECKED BY C. FREY			2 JAN 90

4

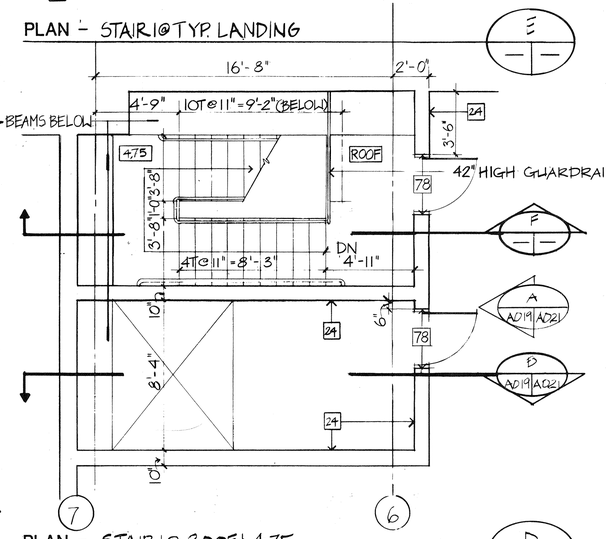
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	216	531



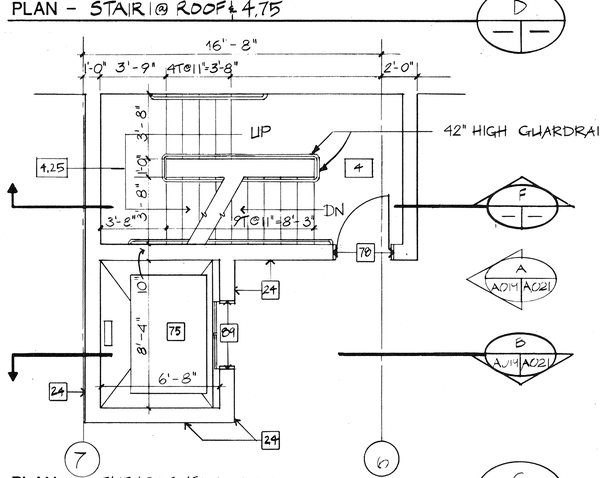
SECTION – STAIR 1



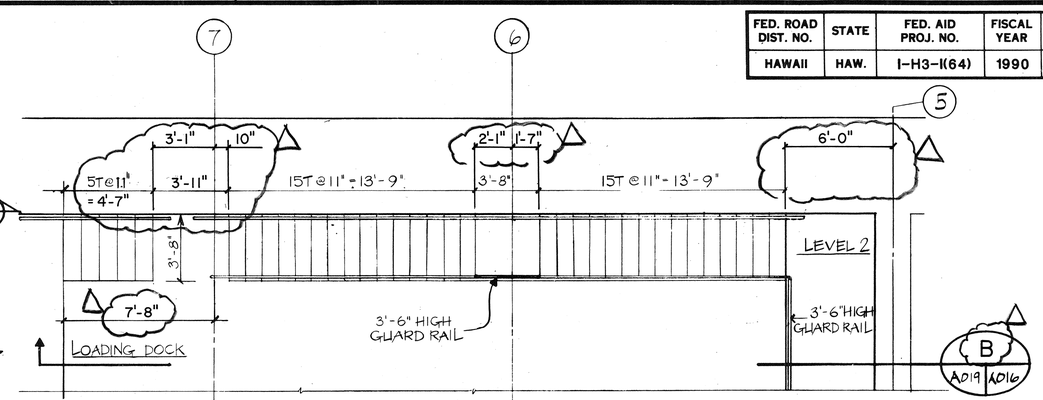
PLAN – STAIR 1 @ TYP. LANDING



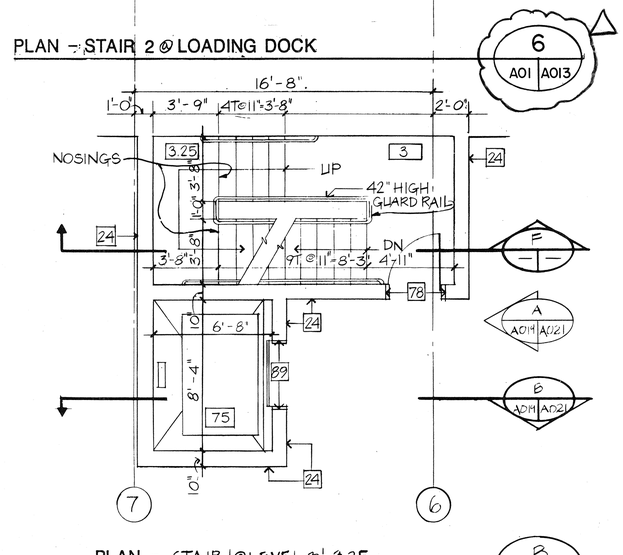
PLAN – STAIR 1 @ ROOF & 4.75



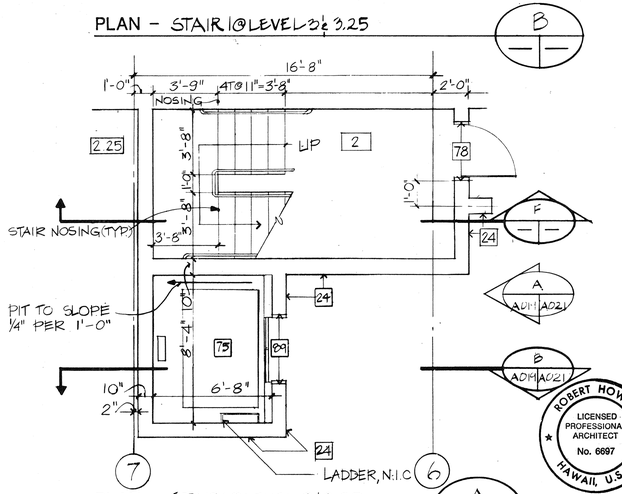
PLAN – STAIR 1 @ LEVEL 4 & 4.25



PLAN – STAIR 2 @ LOADING DOCK



PLAN – STAIR 1 @ LEVEL 2 & 3.25



PLAN – STAIR 1 @ LEVEL 2 & 2.25

KEYED NOTES

- 4 RAIL, SEE 14/A5
- 24 10" WALL
- 31 CRICKET
- 32 SINGLE PLY MEMBRANE ROOFING
- 40 SLOPE 6"
- 75 ELEVATOR
- 78 OPENING, 3'-4½" WIDE × 7'-2¼" HIGH
- 89 OPENING, 4'-6" WIDE × 7'-6" HIGH

GENERAL NOTES

1. METAL DOORS AND FRAMES, N.I.C.
2. EXTEND HANDRAILS AT WALLS 1'-0" MIN. BEYOND TREAD NOSINGS, SEE 2/A5 (TYP.)

GRAPHIC SCALE

4' 2' 0 4' 8'

1/4" = 1'-0"

DATE	REVISION
11/5/91	REVISED PLAN "6" PER DCN 64-012

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIRS - 1 & 2

HALAWA PORTAL BUILDING 08
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

SHEET NO. A019 OF 21 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

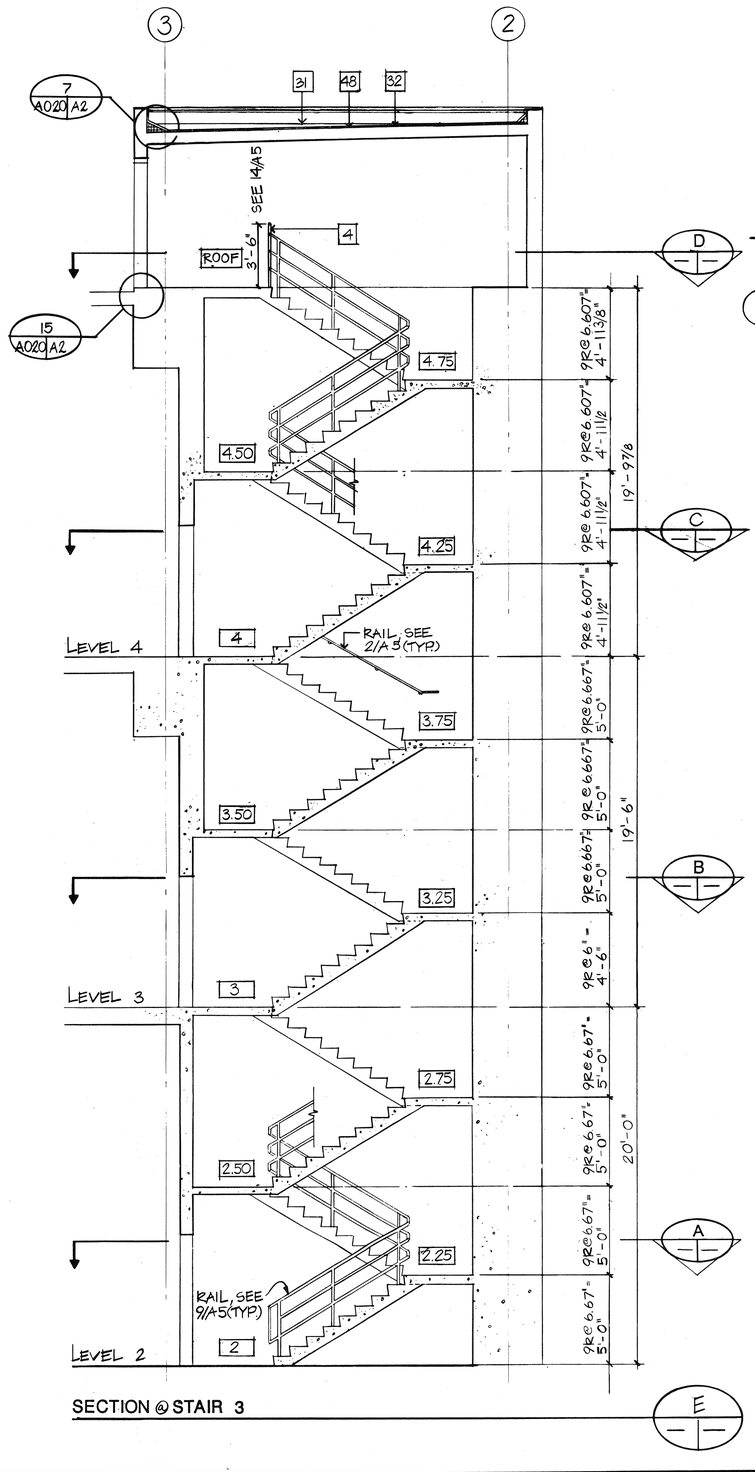
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

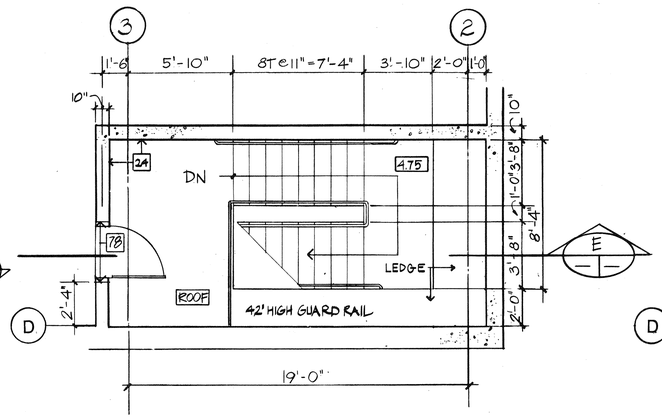
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY L. SUEUGA	26 JUN 90
NOTE BOOK	TRACED BY	
	DESIGNED BY R. HOWELL	22 JUN 90
No.	QUANTITIES BY	
	CHECKED BY C. FREY	27 JUN 90

44

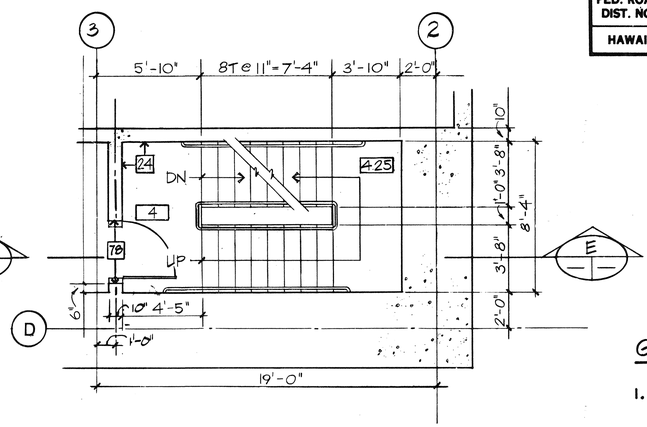
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	217	531



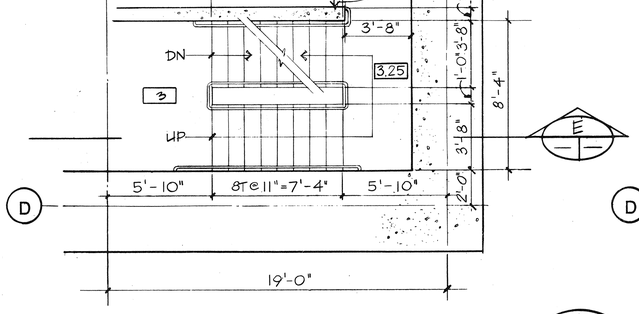
SECTION @ STAIR 3



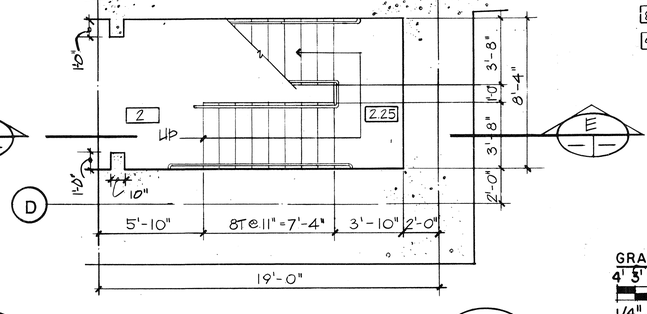
PLAN — STAIRS @ ROOF & LEVEL 4.75



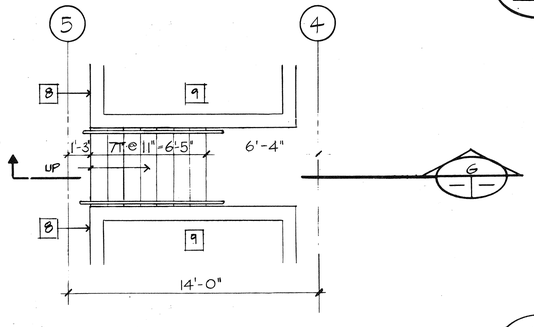
PLAN — STAIRS @ LEVEL 4 & 4.25



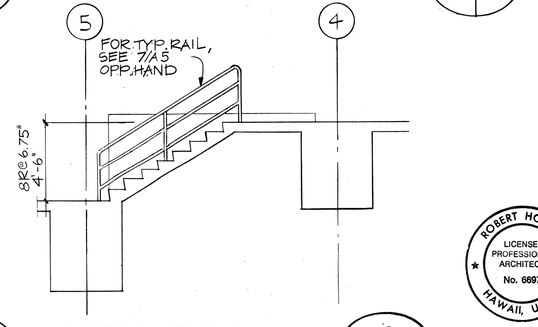
PLAN — STAIRS @ LEVEL 3 & 3.25



PLAN — STAIRS @ LEVEL 2 & 2.25



PLAN — STAIR 4



SECTION — STAIR 4

GENERAL NOTES

1. ALL DOORS & DOOR FRAMES N.I.C. (SHOWN FOR CLARITY ONLY)

KEYED NOTES

- 4 RAIL, SEE 14/A5
- 24 10" WALL
- 31 CRICKET
- 32 SINGLE PLY MEMBRANE ROOFING
- 48 SLOPE 6"
- 78 OPENING, 3'-4 1/2" WIDE × 7'-2 1/4" HIGH
- 8 RAISED CURB, TYP. OF 4
- 9 OPENING FOR EXHAUST FANS, TYP. OF 4

GRAPHIC SCALE:
4' 3' 2' 1' 0' 4' 8'
1/4" = 1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIRS - 3 & 4

HALAWA PORTAL BUILDING OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

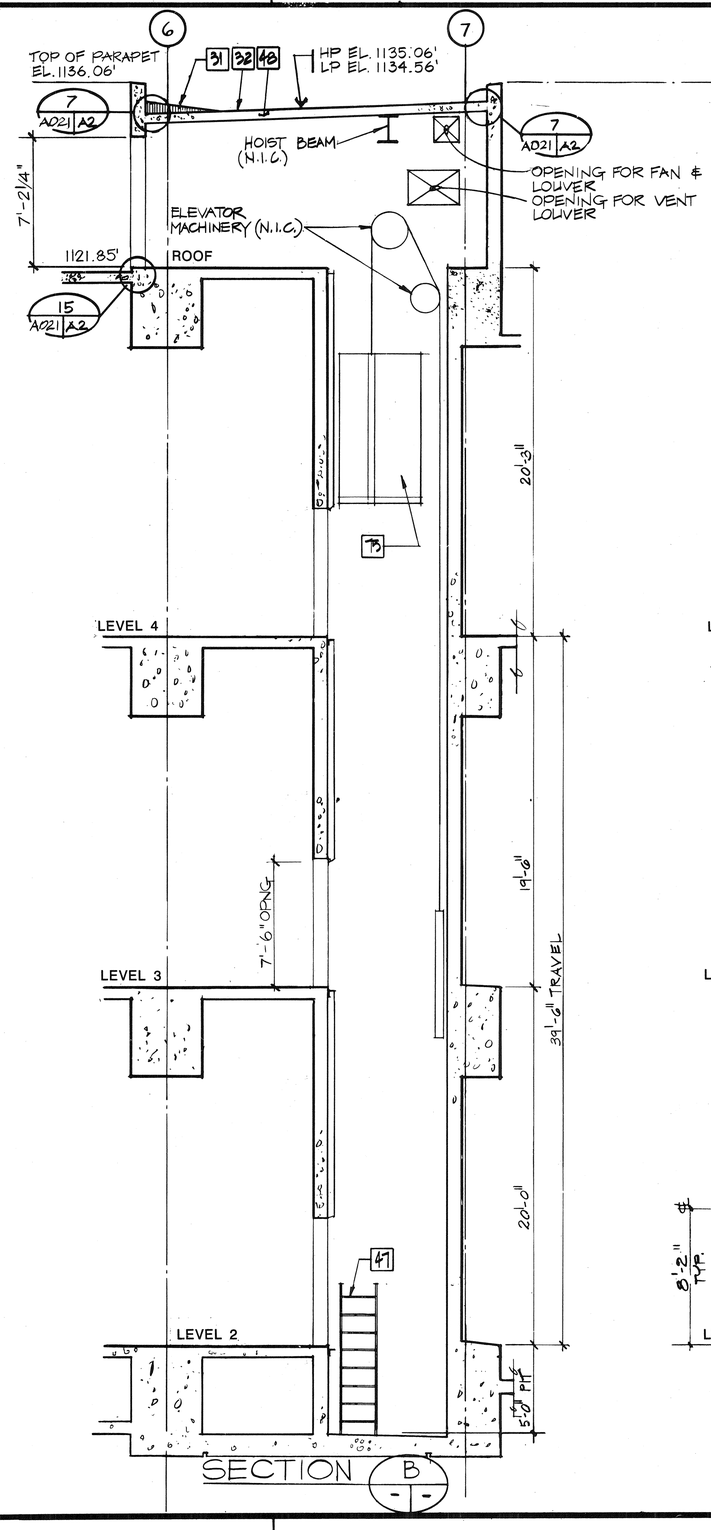
SHEET NO. A020 OF 21 SHEETS

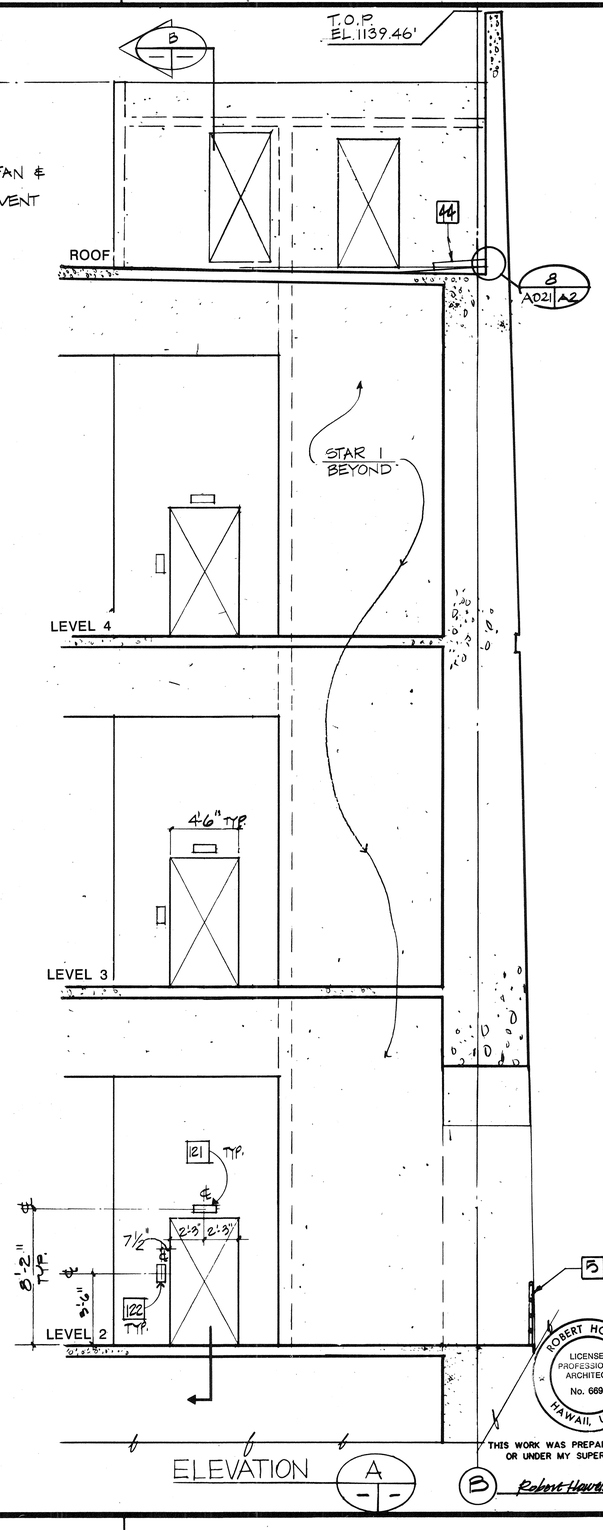
ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY L. SUEVOGA	2-JAN-90
NOTE BOOK	TRACED BY	
	DESIGNED BY C. FREY	2-JAN-90
	QUANTITIES BY	
No.	CHECKED BY	2-JAN-90





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-K64)	1990	218	531

KEYED NOTES

4	RAIL, SEE 14/A5
5	REMOVABLE RAIL, SEE 6/A5
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
44	3'-0" X 3'-0" SPLASH BLOCK
47	LADDER (N.I.C.)
48	SLOPE 6"
75	ELEVATOR (N.I.C.)
121	LANTERN RECESS– 8.8"WIDE X 3.5"HIGH X 4"DEPTH
122	HALL BUTTONS RECESS – 2.88"WIDE X 8.12"HIGH X 4"DEPTH

GENERAL NOTES

1. METAL DOORS AND FRAMES N.I.C.
2. METAL ELEVATOR PRG. AND FRAMES,GUIDES, ANGLES,CAB,MACHINERY,ETC. N.I.C.

GRAFIC SCALE

4' 2' 0 4' 8'

1/4" = 1'-0"

ORIGINAL PLAN	NOTE BOOK	No.

	DATE
SURVEY PLOTTED BY	
DRAWN BY	S.UEUGA 12/JUN/90
TRACED BY	
DESIGNED BY	C. FREY 12/JUN/90
QUANTITIES BY	
CHECKED BY	12/JUN/90

46

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SECTIONS AT ELEVATOR

HALAWA PORTAL BUILDING 0B
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4" = 1'-0" DATE: JUN 1990

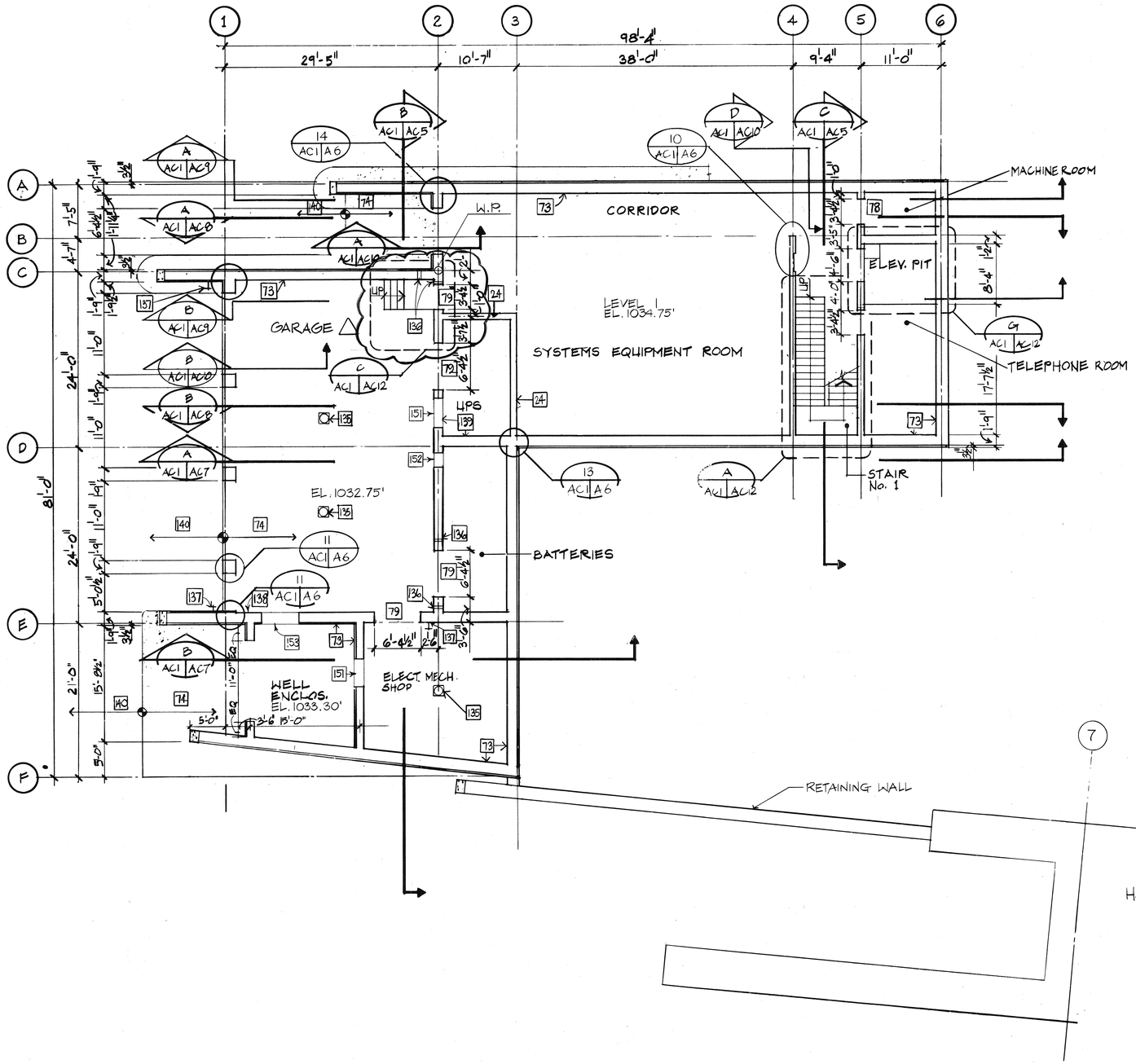
ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

SHEET NO. A021 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	219	531



KEYED NOTES

24	10" WALL
73	CONCRETE WALL--SEE STRUCTURAL PLANS
74	CONCRETE SLAB
78	OPENING 3'-4-1/2" WIDE X 7'-2-1/4" HIGH
79	OPENING 6'-4-1/2" WIDE X 7'-2-1/4" HIGH
135	FLOOR DRAIN--SEE MECHANICAL PLANS
136	PIPE SLEEVE--SEE MECHANICAL PLANS
137	HOSE BIBB--SEE MECHANICAL PLANS
138	S.D.&O.D. LEADERS- SEE MECHANICAL PLANS
139	14" CONCRETE WALL
140	ASPHALT PAVING
151	4'-0"WIDE X 2'-0"HIGH OPENING BOTTOM 1'-3" A.F.F.
152	2'-0"WIDE X 1'-0"HIGH OPENING BOTTOM 1'-3" A.F.F.
153	6'-0"WIDE X 3'-0"HIGH OPENING BOTTOM 1'-3" A.F.F.

GENERAL NOTES

REFER TO MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT LAYOUTS

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
10-26-92	REVISE GARAGE STAIR PER TCN 64-048

GRAPHIC SCALE

8' 4' 0' 8' 16

1/8" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - LEVEL 1

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET AC1 OF 12 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY S.UEGA	3 JAN 92
	TRACED BY	
	DESIGN BY R. HOWELL	2 JAN 92
NOTE BOOK	QUANTITIES BY	
No.	CHECKED BY C. FREY	23 JUNE 92

47

219

12/9/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	220	531

N

6 CONCRETE CURB

KEYED NOTES

14	ROOF DRAIN
15	OVERFLOW DRAIN
23	12" WALL
24	10" WALL
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
73	CONCRETE WALL--SEE STRUCTURAL PLANS
74	CONCRETE SLAB
76	PLANTER DRAIN
78	OPENING 3'-4-1/2" WIDE X 7'-2-1/4" HIGH
80	OPENING 6'-4-1/2" WIDE X 8'-2-1/4" HIGH
123	RETAINING WALL-SEE CONTROL BUILDING PLANS
135	FLOOR DRAIN-SEE MECHANICAL PLANS
136	PIPE SLEEVE-SEE MECHANICAL PLANS
138	S.D.& O.D.LEADERS-SEE MECHANICAL PLANS
139	14" CONCRETE WALL
141	TRAFFIC PAD
142	CONCRETE BEAM
143	STUB UP-SEE MECHANICAL PLANS
154	1'-0"WIDE X 1'-0"HIGH OPENING
155	1'-4"WIDE X 1'-4"HIGH OPENING

GENERAL NOTES

REFER TO MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT LAYOUTS

CONTROL CENTER EL. 1048.3'
ELEV. SHAFT
CORRIDOR
LUNCH ROOM
STAIR No. 2
EMERGENCY GENERATOR ROOM EL. 1049.0'
STAIR No. 1
ROOF
SLOPE
OPEN
SHAFT
UTILITY TUNNEL
RETAINING WALL
HALAWA O.B.

GRAPHIC SCALE
8' 4' 0' 8' 16'
1/8" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - LEVEL 2

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8" = 1'-0" DATE: JUN 1990

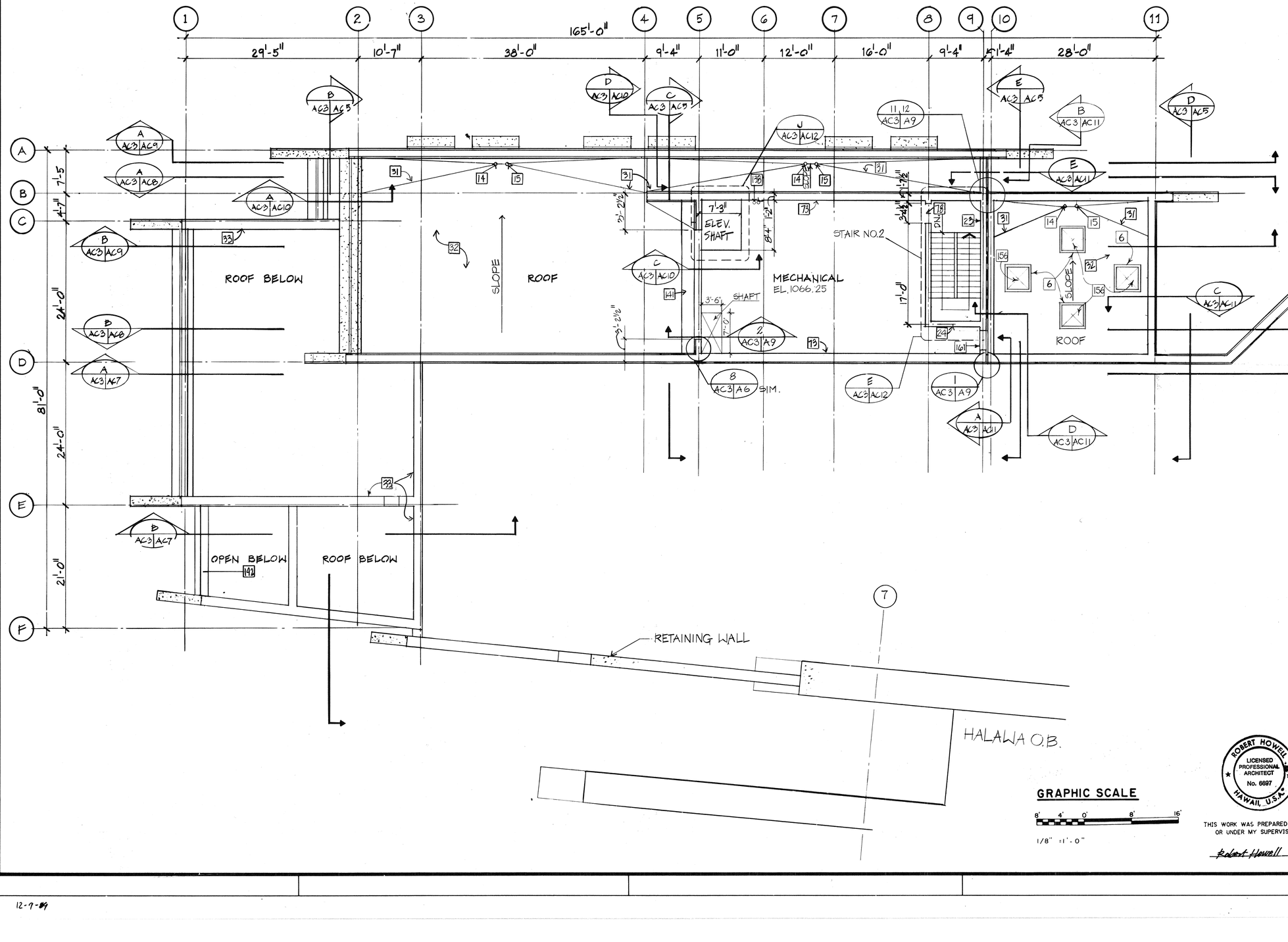
SHEET AC2 OF 12 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE 9 JAN 90
DRAWN BY S. LEUGA
TRACED BY
DESIGNED BY R. HOWELL 2 MAY 90
QUANTITIES BY
CHECKED BY C. ESSEY 23 JUNE 90
NOTE BOOK
No.

220

12-4-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(64)	1990	221	531



KEYED NOTES

6	CONCRETE CURB
14	ROOF DRAIN
15	OVERFLOW DRAIN
23	12" WALL
24	10" WALL
25	8" WALL
31	CRICKET
32	SINGLE PLY MEMBRANE ROOFING
33	PARAPET
73	CONCRETE WALL-SEE STRUCTURAL PLANS
78	OPENING 3'-4-1/2" WIDE X 7'-2-1/4" HIGH
123	RETAINING WALL-SEE CONTROL BUILDING PLANS
138	S.D. & O.D. LEADERS- SEE MECHANICAL PLANS
141	TRAFFIC PAD
142	CONCRETE BEAM
156	3'-8"WIDE X 3'-8"HIGH OPENING
161	OPENING - 3'-4 1/2" WIDE x 7'-6" HIGH

GENERAL NOTES

REFER TO MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT LAYOUTS

GRAPHIC SCALE

8' 4' 0' 8' 16'

1/8" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - LEVEL 3

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET AC3 OF 12 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED	DATE 8 JAN. 90
	DRAWN BY L. SILVEIRA	12 JAN. 90
NOTE BOOK	TRACED BY	21 JUNE 90
	DESIGNED BY B. HOWELL	
	QUANTITIES BY	
NO.	CHECKED BY C. FREY	

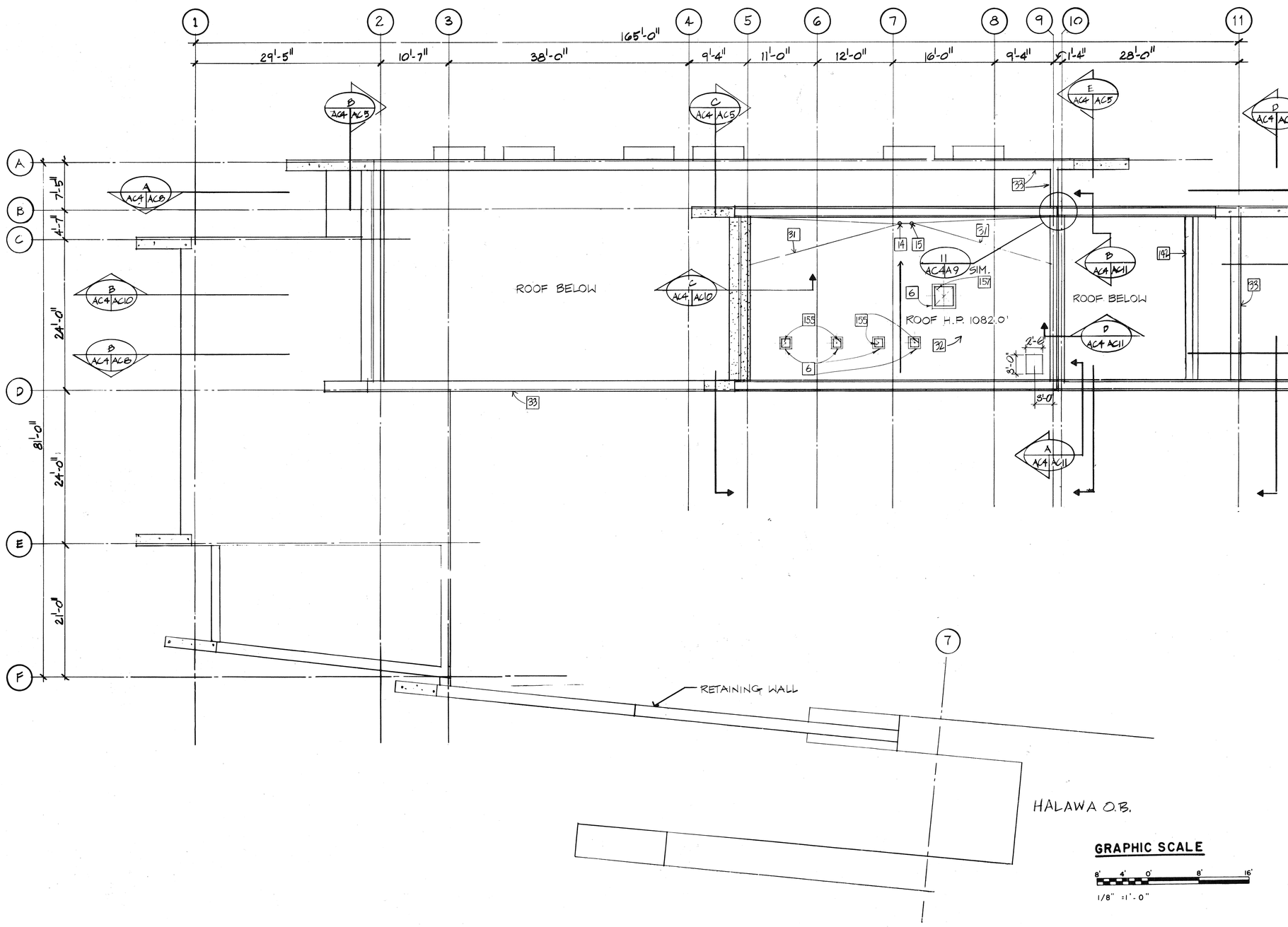
3
AC

49

221

12-7-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	222	531



KEYED NOTES

6	CONCRETE CURB
14	ROOF DRAIN
15	OVERFLOW DRAIN
31	CRIKET
32	SINGLE PLY MEMBRANE ROOFING
33	PARAPET
123	RETAINING WALL– SEE CONTROL BUILDING PLANS
142	CONCRETE BEAM
155	1'-4"WIDE X 1'-4"HIGH OPENING
157	3'-0"WIDE X 3'-0"HIGH OPENING

GENERAL NOTES

REFER TO MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT LAYOUTS

GRAPHIC SCALE

8' 4' 0' 8' 16'

1/8" =1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROOF PLAN

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: AS NOTED DATE: JUN 1990

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

SURVEY PLOTTED BY ... DATE 1 JAN 90
DRAWN BY ... S. SEDGA 12 JAN 90
TRACED BY ... P. HOWELL 27 MAR 90
DESIGNED BY ... P. HOWELL
QUANTITIES BY ... S. FREY
CHECKED BY ... S. FREY
ORIGINAL IN ...
SHEET BOOK ...
NO. ...

SHEET AC4 OF 12 SHEETS

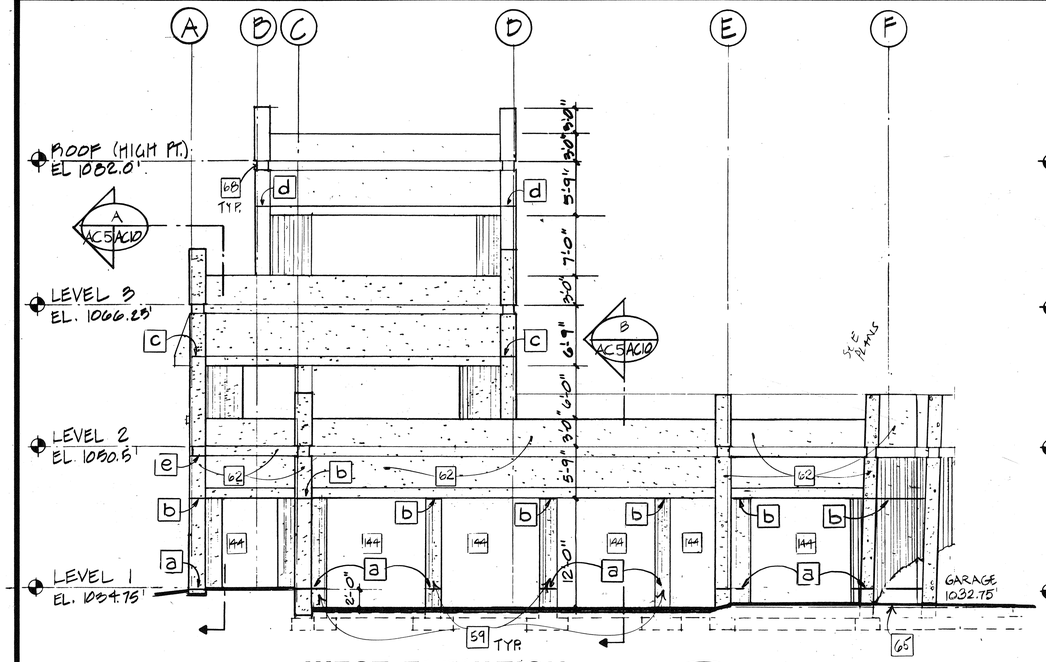
222

12-9-89

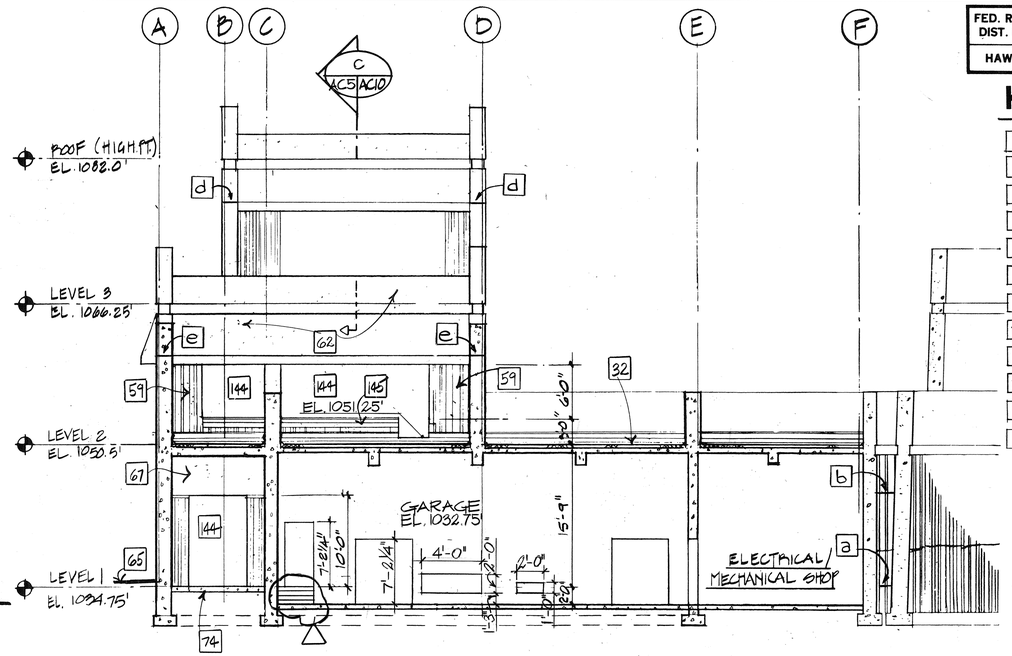
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(64)	1990	223	531

KEYED NOTES

32	SINGLE PLY MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
74	CONCRETE SLAB
142	CONCRETE BEAM
144	CONCRETE ROUGH OPENING
145	CONCRETE SILL
149	CONCRETE STAIRS
161	3'-4 1/2 WIDE X 7'-6" HIGH OPENING



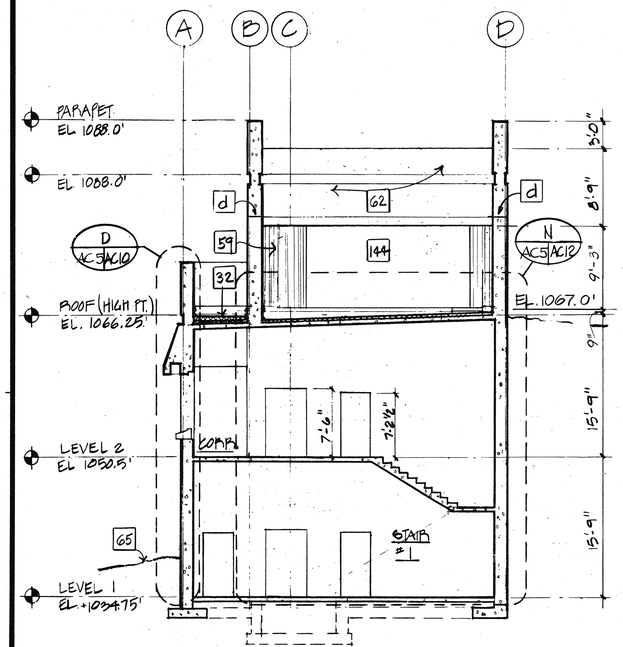
WEST ELEVATION



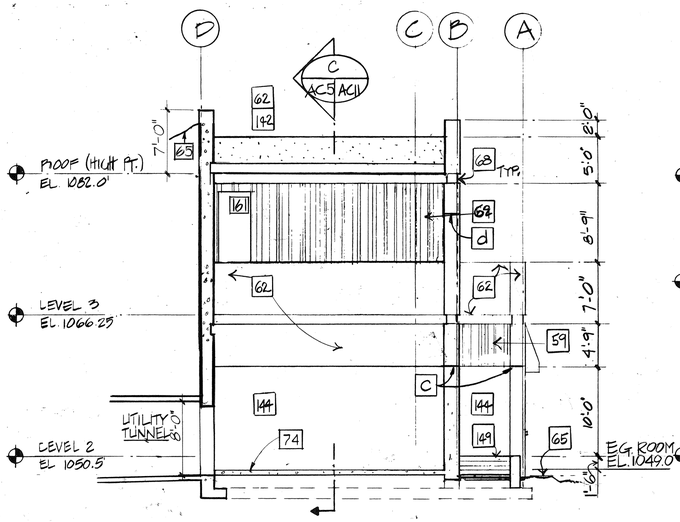
SECTION AT COL. LINE 2

NOTES:

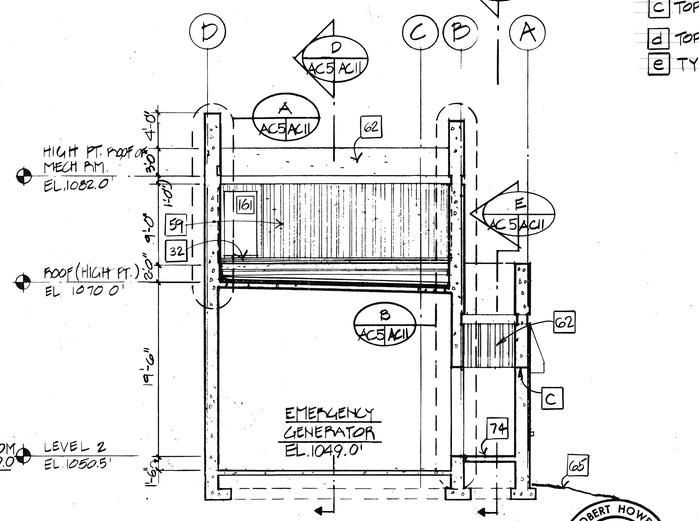
- a BOTT. OF TYP. 1" REVEAL = 1034.75
- b TOP OF TYP. 1" REVEAL = 1044.75
- c TOP OF TYP. 1" REVEAL = 1060.50
- d TOP OF TYP 1" REVEAL = 1076.25
- e TYP 12" REVEAL PER 9/A4



SECTION AT COL. LINE 5



EAST ELEVATION



SECTION AT COL. LINE 10

GRAPHIC SCALE

8' 4' 0' 8' 16'

1/8" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
10-26-92	REVISE GARAGE STAIR PER DCN G4-048
5/19/92	REV PER DCN G4-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEST AND EAST ELEVATIONS AND SECTIONS
CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

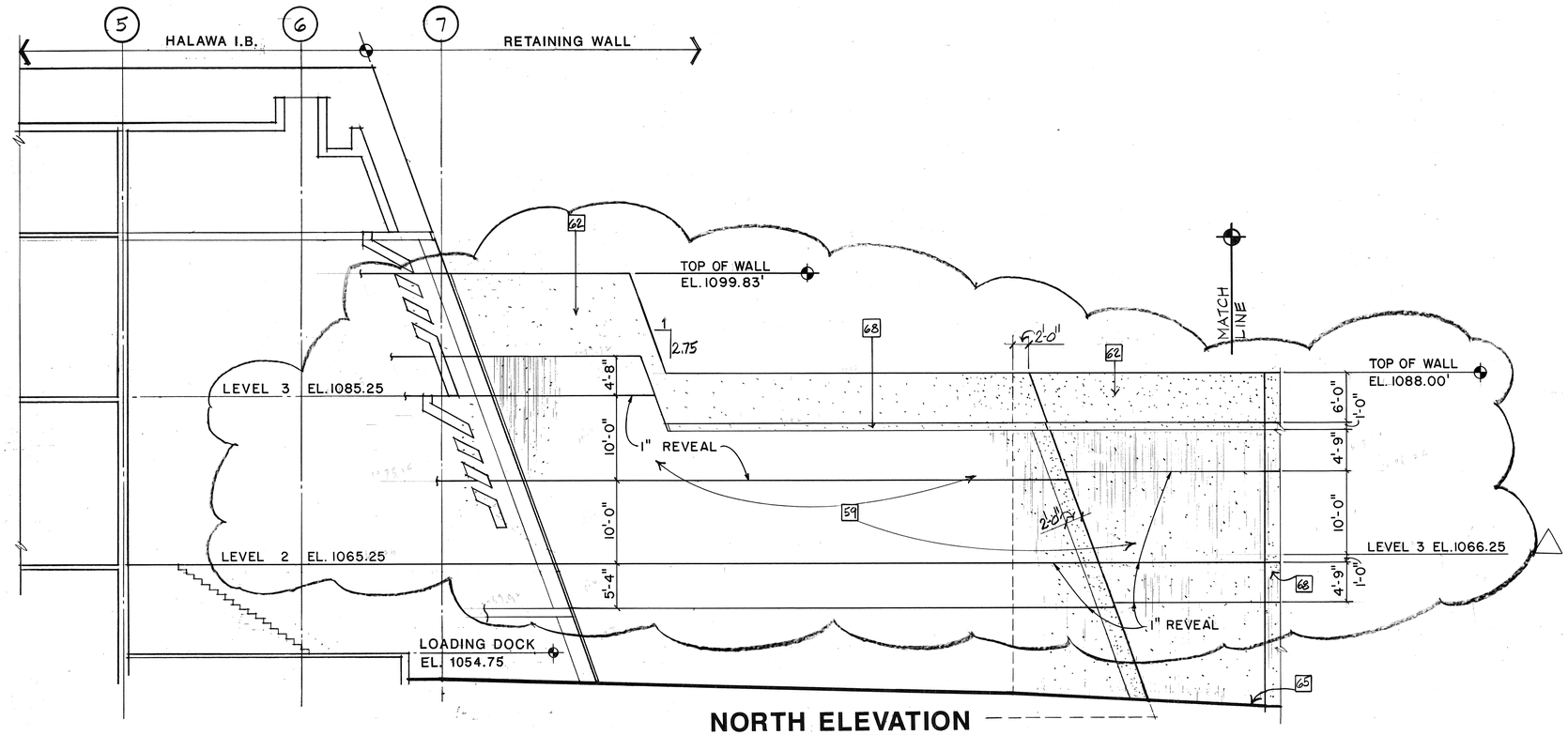
SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET AC5 OF 12 SHEETS

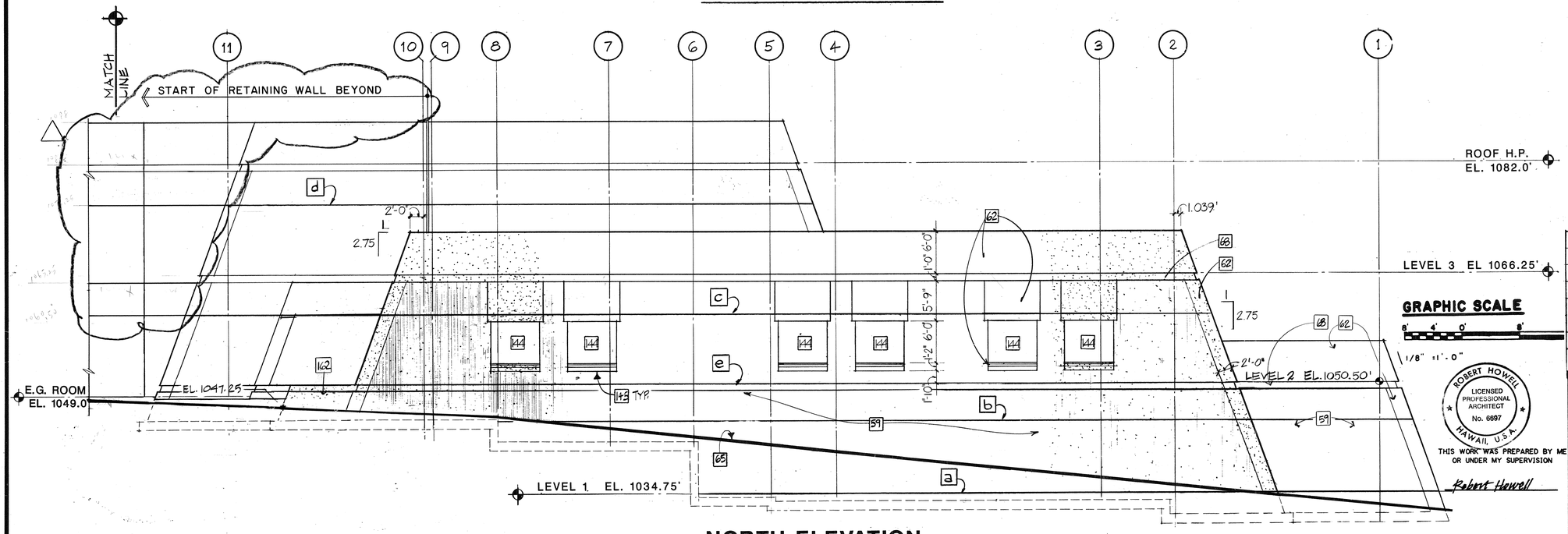
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY L. SUELUGA	1 JAN 90
NOTE BOOK	TRACED BY	
	DESIGNED BY R. HOWELL	10 JAN 90
	QUANTITIES BY	
No.	CHECKED BY C. EBEY	28 JUNE 90

223

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	224	531



NORTH ELEVATION



NORTH ELEVATION

KEYED NOTES

59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
68	TYPICAL REVEAL, SEE 9/A4
144	CONCRETE ROUGH OPENING
145	CONCRETE SILL
162	RETAINING WALL - SEE CIVIL DRAWINGS.

NOTES:
REFER TO SHT. NO. AC5

GRAPHIC SCALE
8' 4' 0' 8'
1/8" = 1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert Howell

DATE	REVISION
12/18/92	ADDED REVEALS ON RETAINING WALL PER DCN 64-055
5/19/92	REV. PER DCN 64-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NORTH ELEVATIONS

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET AC6 OF 12 SHEETS

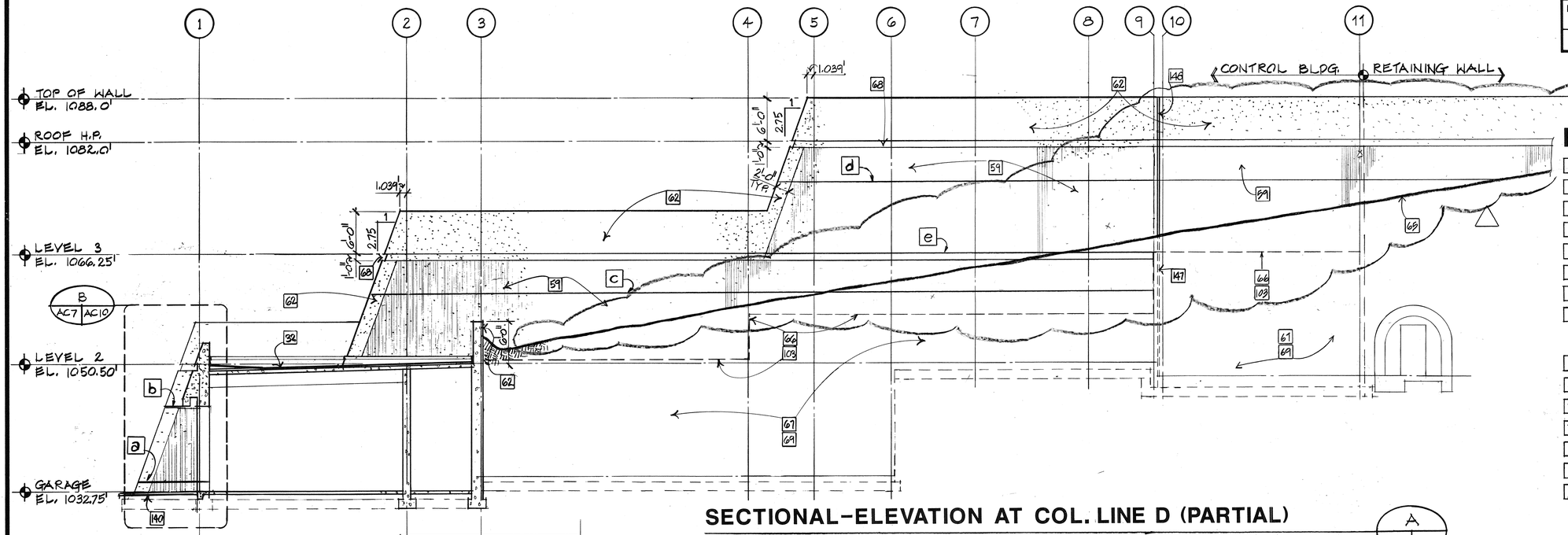
	DATE
SURVEY PLOTTED BY	
DRAWN BY L. SUEUGA	JAN '90
TRACED BY	
DESIGNED BY R. HOWELL	JAN '90
QUANTITIES BY	
CHECKED BY C. FREY	23 JUL '90

ORIGINAL PLAN
NOTE BOOK
No.

52

224

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	225	531

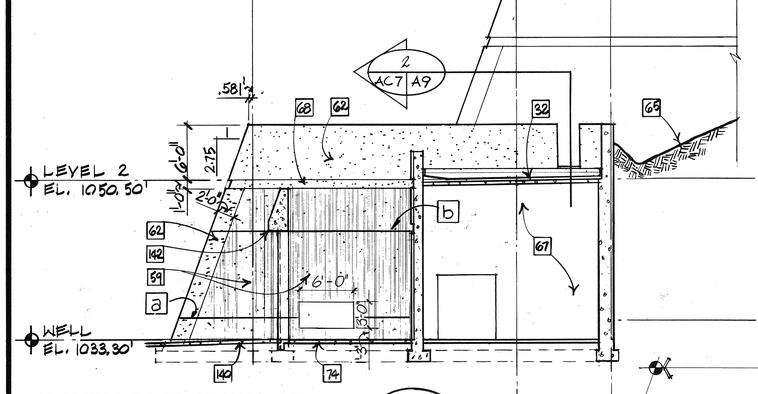


SECTIONAL-ELEVATION AT COL. LINE D (PARTIAL)

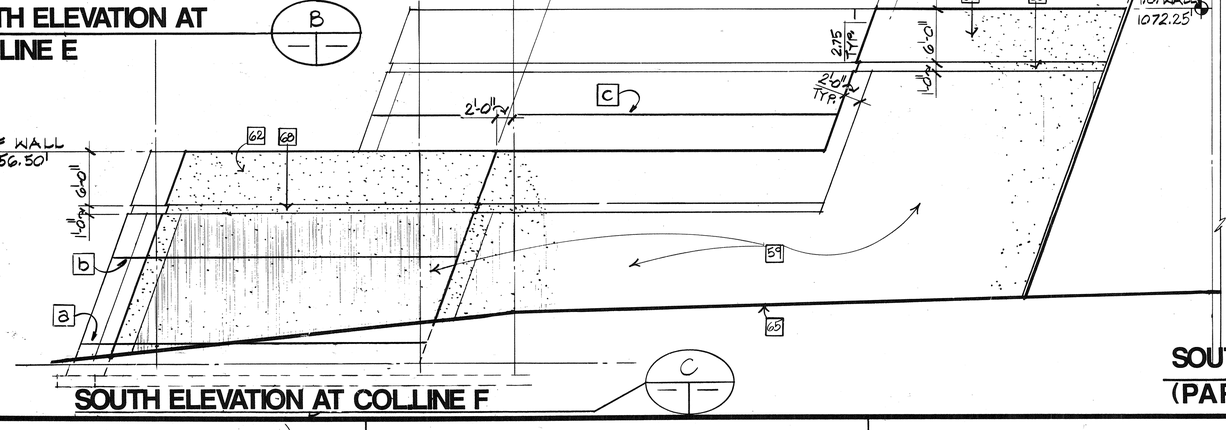
KEYED NOTES

32	SINGLE PLY MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
66	LIMIT OF RANDOM BOARD
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
69	MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
74	CONCRETE SLAB
103	REGLET
140	ASPHALT PAVING
142	CONCRETE BEAM
146	EXPANSION JOINT
147	WATER STOP
148	CONTROL BUILDING-BEYOND

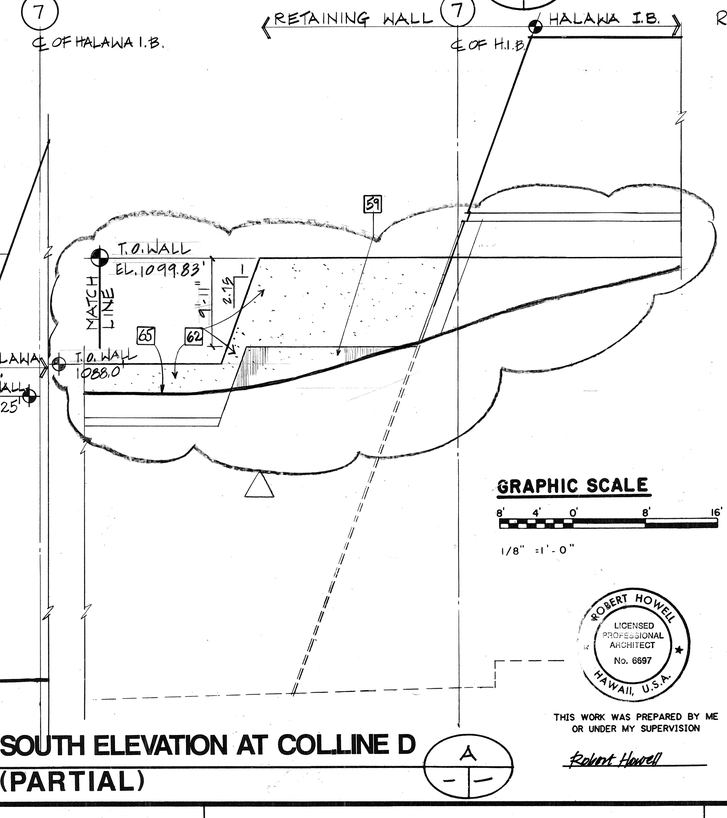
NOTES:
REFER TO SHT. NO. AC5



SOUTH ELEVATION AT COLLINE E



SOUTH ELEVATION AT COLLINE F



SOUTH ELEVATION AT COLLINE D (PARTIAL)

GRAPHIC SCALE
8' 4' 0' 8' 16'
1/8" = 1'-0"

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

DATE	REVISION
12/18/92	REVISED ELEVATION A PER DCN 64-055
5/19/92	REV PER DCN 64-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SOUTH ELEVATIONS

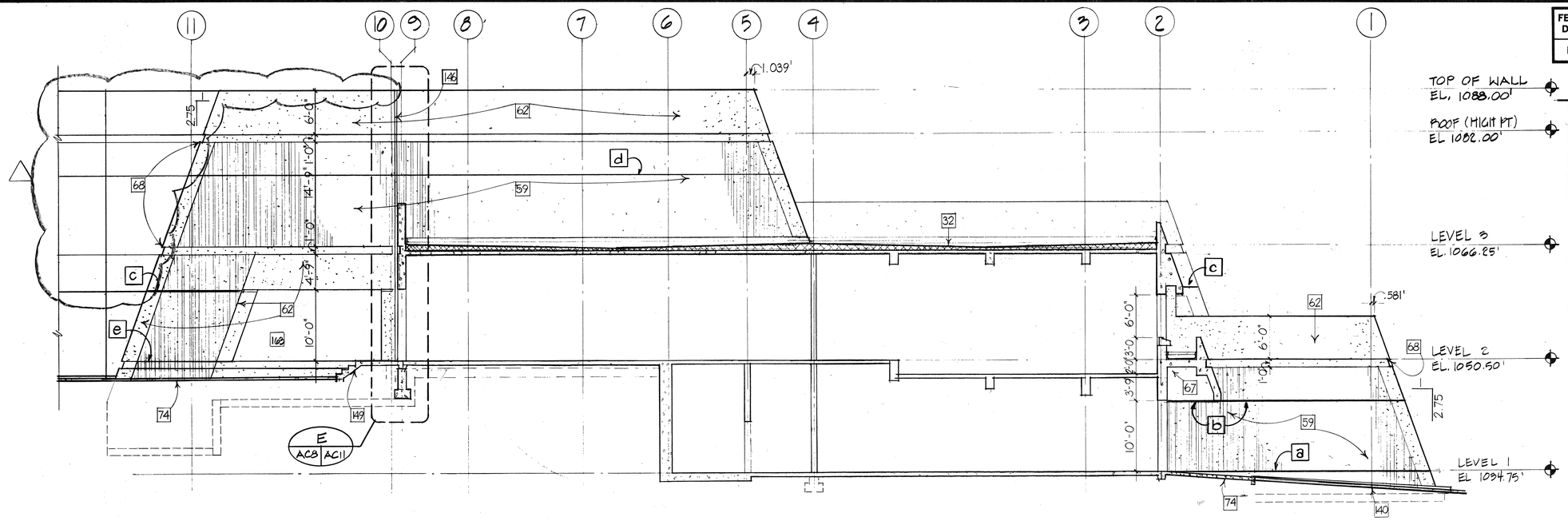
CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8"=1'-0" DATE: JUN 1990

SHEET AC7 OF 12 SHEETS

ORIGINAL PLANS	SURVEY PLOTTED BY	DATE 8 JAN '90
	DRAWN BY L. SUEOKA	2 JAN '92
NOTE BOOK	TRACED BY A. HOWELL	2 JAN '92
	DESIGNED BY A. HOWELL	21 JUNE '90
No.	QUANTITIES BY	
	CHECKED BY C. FREY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-K(64)	1990	226	531



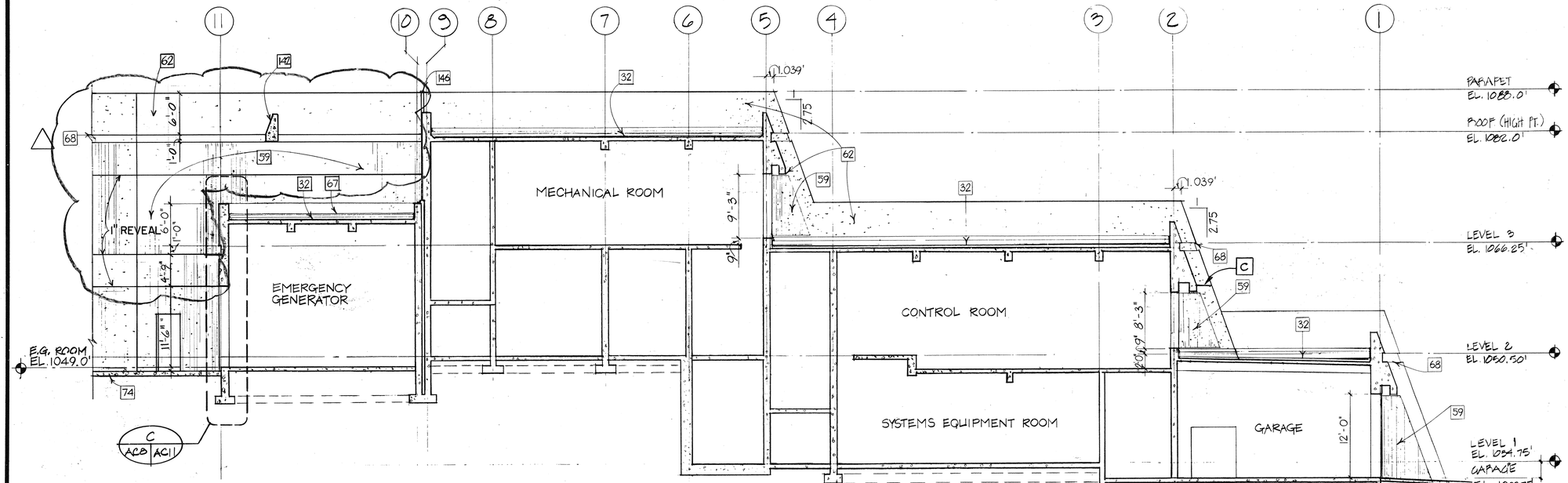
NORTH ELEVATION AT COL.LINE B

A

KEYED NOTES

32	SINGLE PLY MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
74	CONCRETE SLAB
140	ASPHALT PAVING
146	EXPANSION JOINT
149	CONCRETE STAIR
163	LOUVER OPENING

NOTES:
REFER TO SHT. NO. AC5



SECTION AT COL.LINE D

B

12/18/92	ADDED REVEALS ON RETAINING WALL PER DCN 64-055
5/19/92	REV. PER DCN G4-034
DATE	REVISION

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

GRAPHIC SCALE
8' 4' 0' 8' 16'
1/8" = 1'-0"

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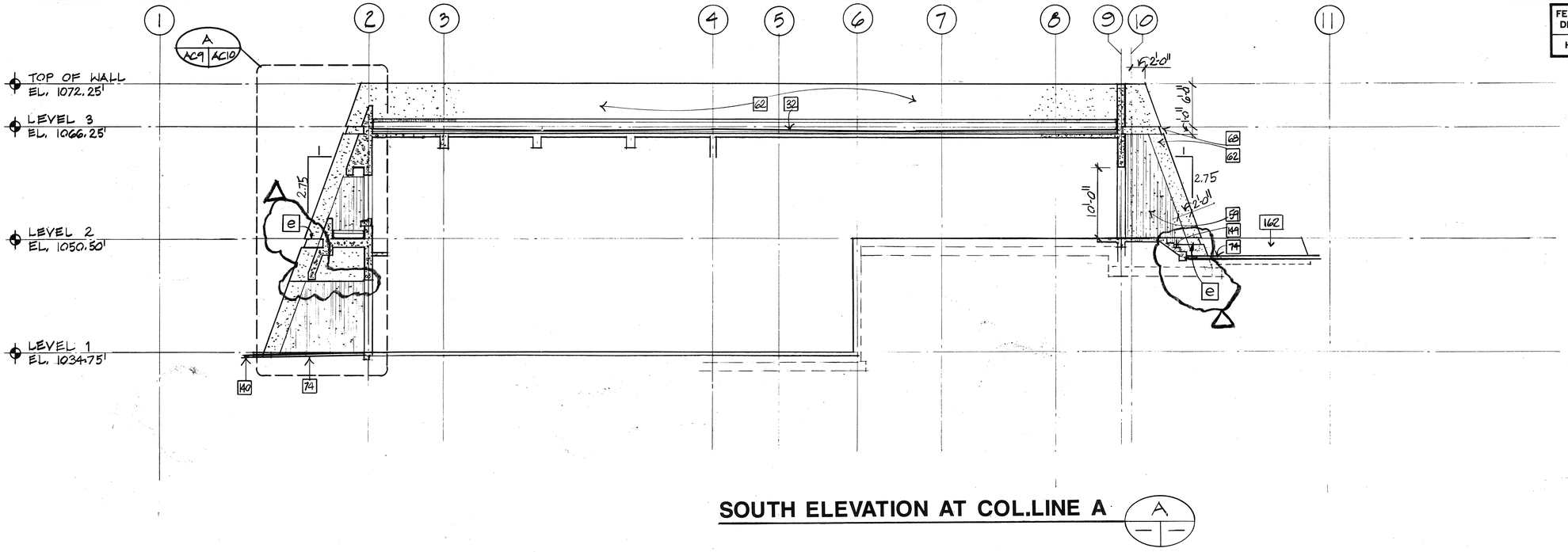
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELEVATION - LINE B AND SECTION
CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8" = 1'-0" DATE: JUN 1990

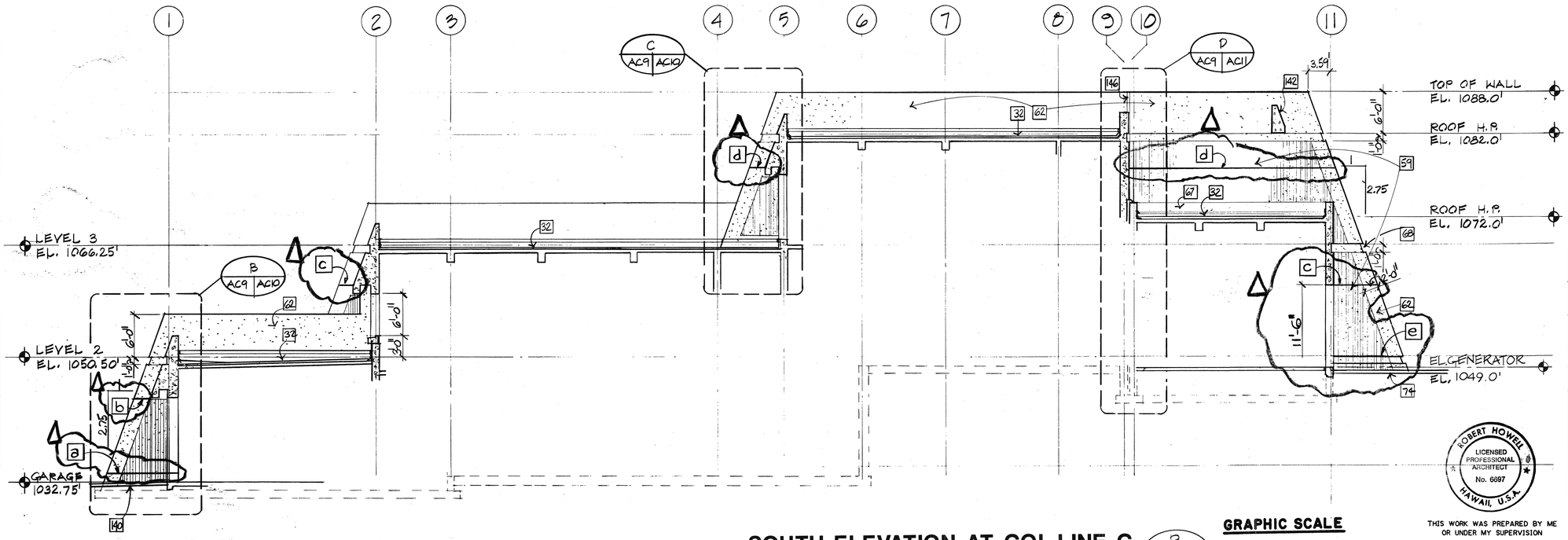
SHEET AC8 OF 12 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY L. SUEOKA	8 JAN 92
	TRACED BY	
NOTE BOOK	DESIGNED BY R. HOWELL	20 JAN 92
	QUANTITIES BY	
No.	CHECKED BY C. EREY	21 JAN 92



SOUTH ELEVATION AT COL.LINE A

A



SOUTH ELEVATION AT COL.LINE C

B

GRAPHIC SCALE

8' 4' 0' 8' 16'

1/8" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	227	531

KEYED NOTES

32	SINGLE PLY MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
74	CONCRETE SLAB
140	ASPHALT PAVING
146	EXPANSION JOINT
149	CONCRETE STAIRS
162	RETAINING WALL-SEE CIVIL DRAWINGS

NOTES:
REFER TO SHT. NO. AC5

DATE	REVISION
5/19/92	REV. PER DCN G4-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PARTIAL WALL

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/8" = 1'-0" DATE: JUN 1990

SHEET AC9 OF 12 SHEETS

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

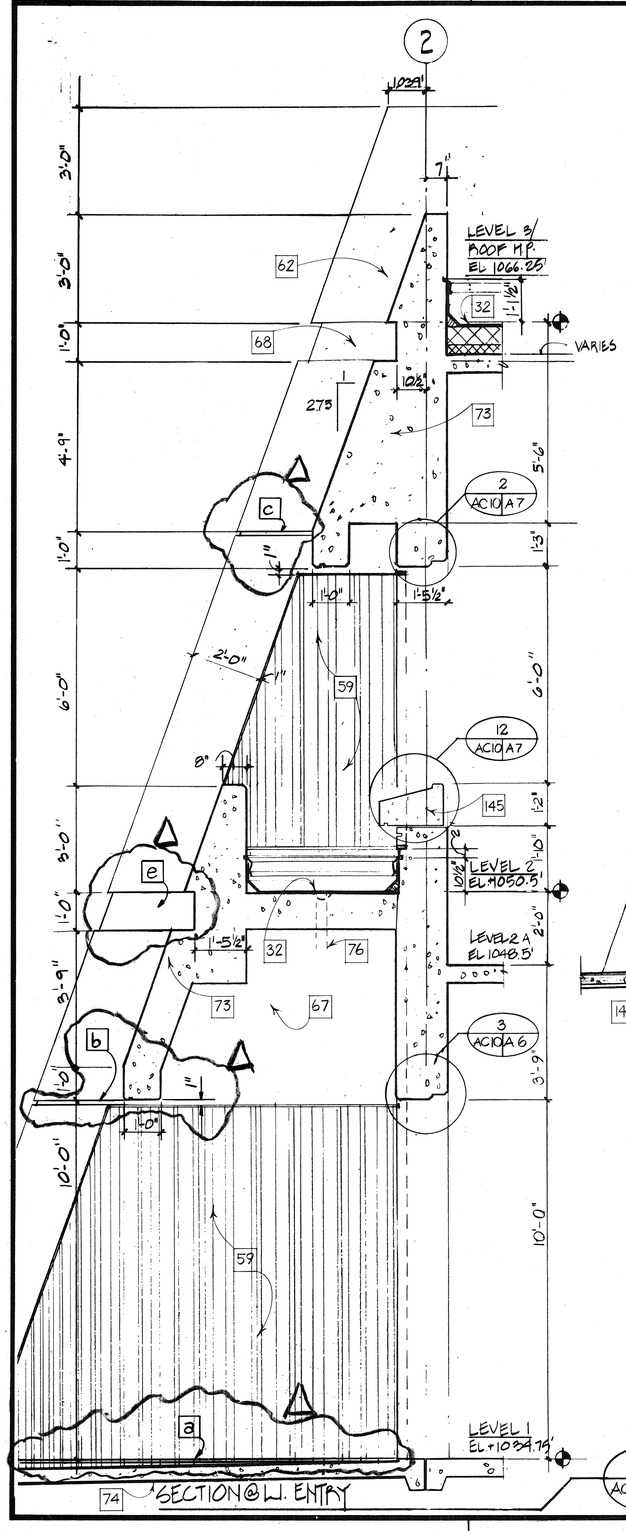
Robert Howell

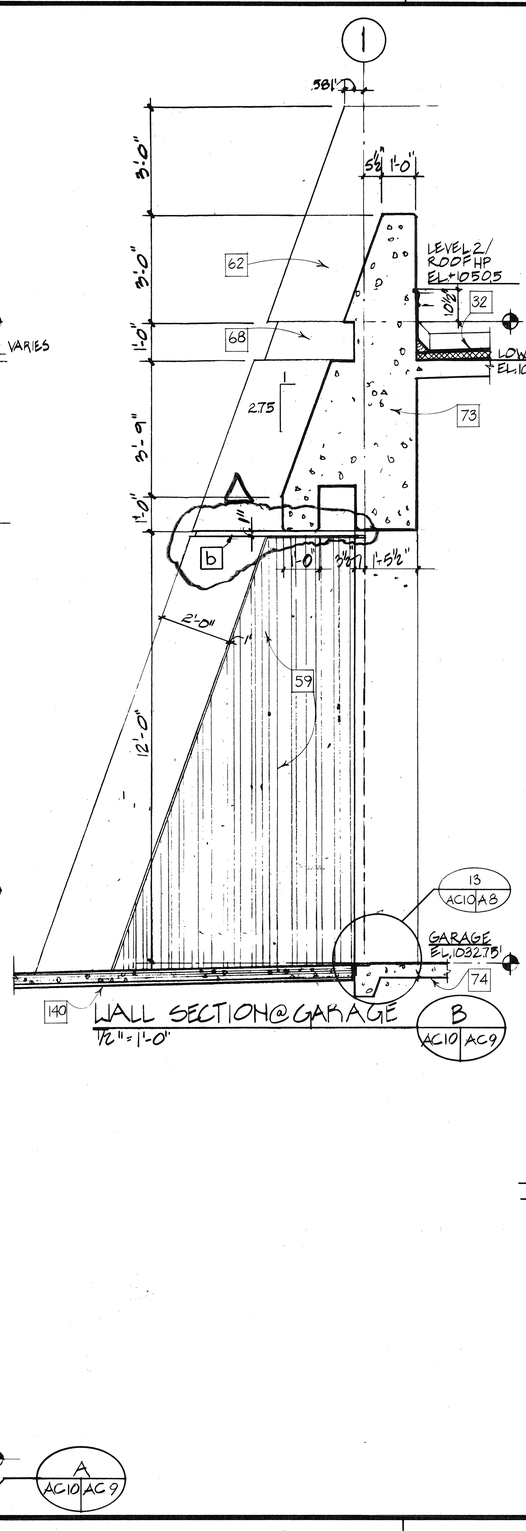
		DATE
ORIGINAL PLAN	SURVEY PLOTTED BY	
	DRAWN BY J. SUEDA	9 JAN 92
NOTE BOOK	TRACED BY	
	DESIGNED BY D. HOWELL	10 JAN 92
No.	QUANTITIES BY	
	CHECKED BY C. FREY	23 JUNE 92

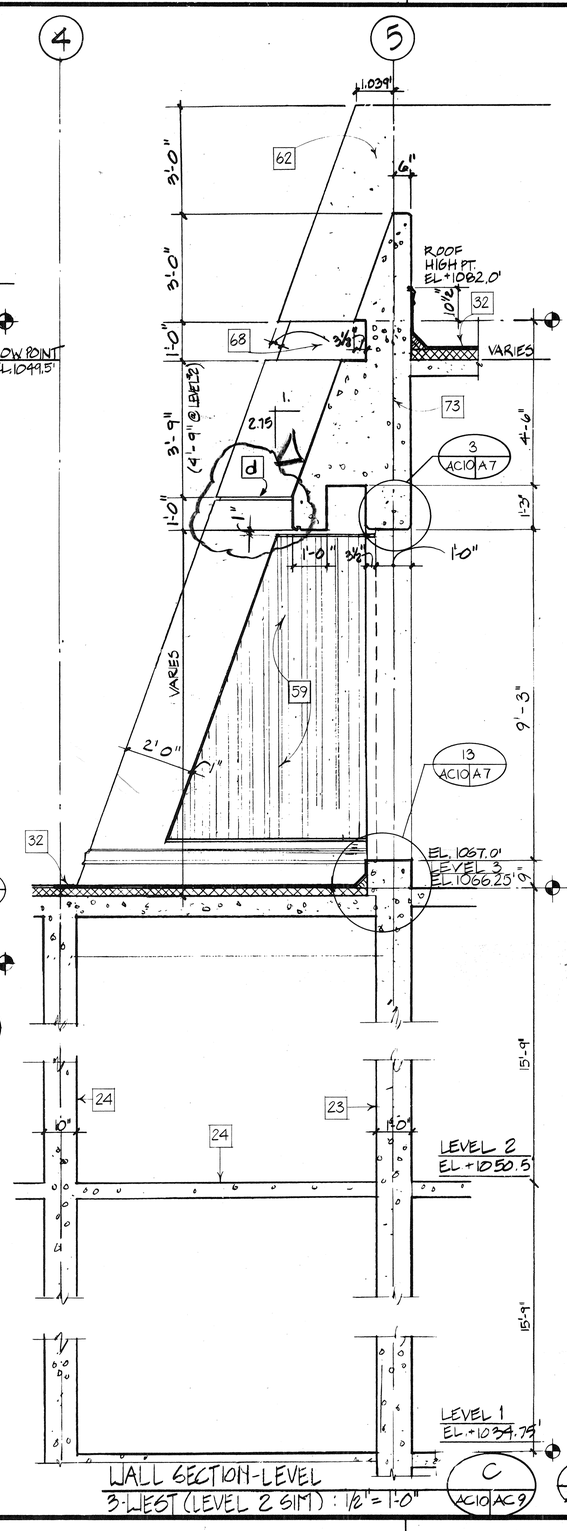
55

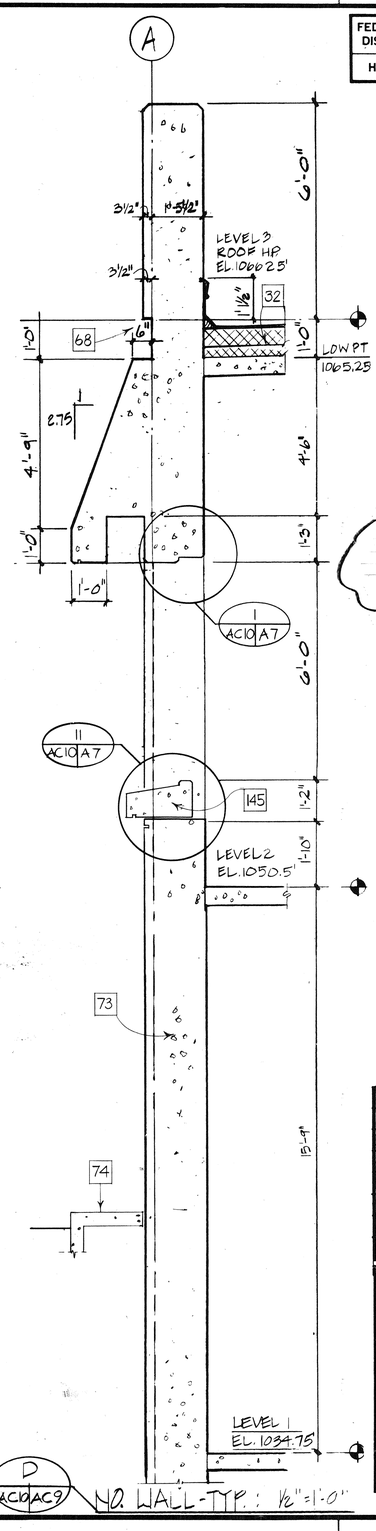
227

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	228	531









KEYED NOTES

23	12" WALL
24	10" WALL
32	SINGLE MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
67	SMOOTH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
73	CONCRETE WALL- SEE STRUCTURAL PLANS
74	CONCRETE SLAB
76	PLANTER DRAIN
140	ASPHALT PAVING
145	CONCRETE SILL

NOTES:
REFER TO SHT. NO. AC5

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

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Robert Howell

GRAPHIC SCALE

1' 0' 1' 2' 3' 4' 5'

1/2" = 1'-0"

DATE	REVISION
5/19/92	REV. PER DCN 64-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL SECTIONS - 1

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/2" = 1'-0" DATE: JUN 1990

SHEET AC10 OF 12 SHEETS

	DATE
ORIGINAL PLAN	
SURVEY PLOTTED BY	13 JAN 92
DRAWN BY L. SUEVOKA	
TRACED BY	
DESIGNED BY R. HOWELL	17 JAN 92
NOTE BOOK	
QUANTITIES BY	
CHECKED BY C. FREY	21 JUNE 92
No.	

228

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	229	531

KEYED NOTES

23	12" WALL
32	SINGLE PLY MEMBRANE ROOFING
59	RANDOM BOARD TEXTURE
62	SANDBLAST TEXTURE
65	FINISH GRADE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
69	MEMBRANE WATERPROOFING ON BELOW GRADE WALLS BELOW RANDOM BOARD TEXTURE
73	CONCRETE WALL - SEE STRUCTURAL PLANS
74	CONCRETE SLAB
103	REGLET
146	EXPANSION JOINT

NOTES:
REFER TO SHT. NO. AC5

A RETAINING WALL COL.LINE D
SCALE: 1/2"=1'-0"

B NORTH WALL - EMERGENCY GENERATOR
SCALE: 1/2"=1'-0"

C WEST WALL EMERG'Y GENERATOR
SCALE: 1/2"=1'-0"

D EAST WALL EMERGENCY GENERATOR
SCALE: 1/2"=1'-0"

E WEST ENTRY
SCALE: 1/2"=1'-0"

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

DATE	REVISION
5/19/92	REV. PER DCN 64-034

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WALL SECTIONS - 2

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/2" = 1'-0" DATE: JUN 1990

SHEET AC11 OF 12 SHEETS

ROBERT HOWELL LICENSED PROFESSIONAL ARCHITECT No. 6697 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

SURVEY PLOTTED BY	DATE
DRAWN BY L. SUEOKA	9 JAN. 90
TRACED BY	
DESIGNED BY R. HOWELL	6 JAN. 90
QUANTITIES BY	
CHECKED BY C. FREY	29 JUNE 90
ORIGINAL PLAN	
NOTE BOOK	
No.	

57

229

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-K64)	1990	230	531

KEYED NOTES

4	RAIL, SEE 14/A5
23	12" WALL
24	10" WALL
32	SINGLE PLY MEMBRANE ROOFING
48	SLOPE 6"
59	RANDOM BOARD TEXTURE
67	SMOOTH FINISH CONCRETE
68	TYPICAL REVEAL, SEE 9/A4
73	CONCRETE WALL– SEE STRUCTURAL PLANS
78	OPENING 3'-4 1/2"WIDE X 7'-2 1/4"HIGH
79	OPENING 6'-4 1/2"WIDE X 7'-2 1/4HIGH
136	PIPE SLEEVE– SEE MECHANICAL PLANS
138	S.D. AND O.D. LEADERS– SEE MECHANICAL PLANS
144	CONCRETE ROUGH OPENING
149	CONCRETE STAIRS
62	SANDBLAST TEXTURE

GENERAL NOTES

1. ALL HANDRAIL, STAIRRAIL AND GUARDRAILS, FURNISHED UNDER THIS CONTRACT, INSTALLED UNDER CONTRACT 66.
2. PROVIDE PIPE SLEEVES IN CONCRETE AS REQUIRED.
3.

STAIR #1 - SECTION @ COL. 4.5
SCALE: 1/4"=1'-0"

STAIR #1
SCALE: 1/4"=1'-0"

STAIR #2 SECTION @ COL 7.8
SCALE: 1/4"=1'-0"

ELEVATOR PLANS
1/4"=1'-0"

ELEVATOR SECTION

GARAGE STAIR

EXTERIOR STAIR

GAR. STAIR SECTION

EXT. STAIR SECTION

GRAPHIC SCALE
4' 2' 0' 4' 8'
1/4" = 1' - 0"

DATE	REVISION
10-26-92	REVISE GARAGE STAIR SECTIONS C&K PER DCN 64-04B

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STAIRS AND ELEVATOR

CONTROL BUILDING
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64)

SCALE: 1/4"= 1'-0" DATE: JUN 1990

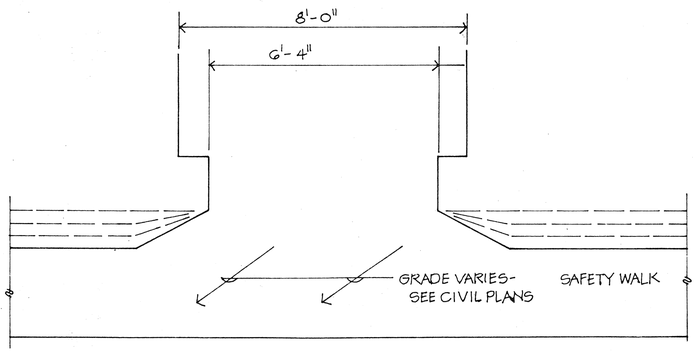
SHEET AC12 OF 12 SHEETS

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Robert Howell

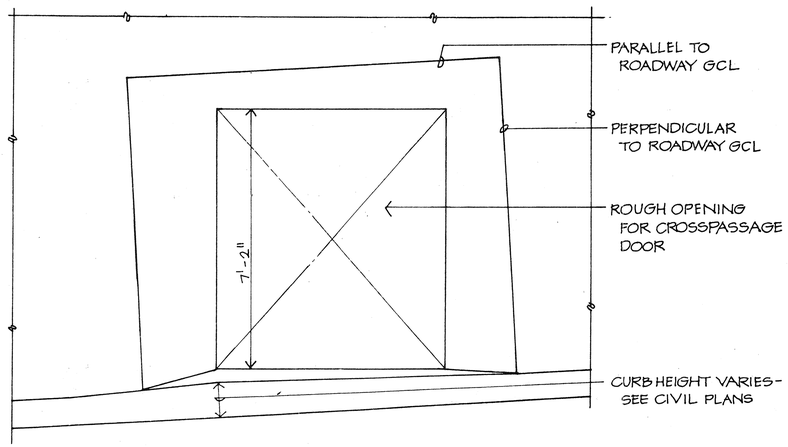
ORIGINAL PLAN	
NOTE BOOK	
No.	
SURVEY PLOTTED BY	DATE 19 JAN 92
DRAWN BY L. SUEOKA	
TRACED BY	
DESIGNED BY R. HOWELL	12 JAN 92
QUANTITIES BY	
CHECKED BY C. FREY	23 JAN 92

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	231	531



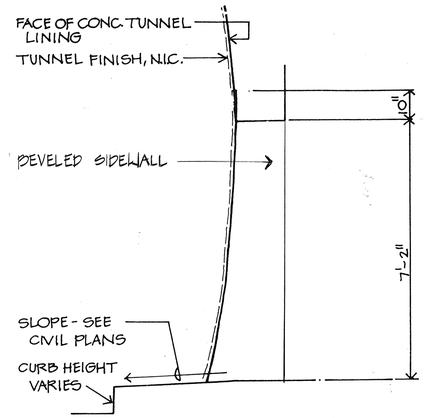
PLAN AT CROSS PASSAGE EXIT (1)

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



ELEVATION AT CROSSPASSAGE (2)

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



SECTION AT CROSSPASSAGE (3)

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

ORIGINAL PLAN	SURVEY PLOTTED BY K. BURKE DATE 12 JAN 90
NOTE BOOK	DRAWN BY TRACED BY DESIGNED BY B. HOWELL 12 JAN 90 QUANTITIES BY CHECKED BY C. FREY 22 JUN 90
NO.	

62

GRAPHIC SCALE

1' 0' 1' 2'

1½"=1'-0"

ROBERT HOWELL
LICENSED PROFESSIONAL ARCHITECT
No. 6697
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Robert S. Howell

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CROSSPASSAGE EXIT ELEVATION & DETAILS

HALAWA TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(64):

SCALE: AS SHOWN DATE: JUN 1990

SHEET NO. AT1 OF 1 SHEETS