FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H3-1(61)	1990	385	424

ABBREVIATIONS

AFF	=	ABOVE FINISHED FLOOR
BLW	=	BELOW
BYD	=	BEYOND
CB	=	CONTROL BLDG.
DN	=	DOWN
DWG	=	DRAWING
EQ.RM.	=	COMMUNICATIONS EQUIPMENT ROOM
FF	=	FINISHED FLOOR
F.V. & E.	=	FIRE VALVE AND EXTINGUISHER
GRS	=	GALVANIZED RIGID STEEL CONDUIT
OPP	=	OPPOSITE
PVC	=	POLYVINYL CHLORIDE CONDUIT
X-PSG	=	CROSSPASSAGE

FIXTURE TYPE SYMBOLS

	PULL BOX OR HANDHOLE
	SWING GATE FOUNDATION
	ATTENUATOR FOUNDATION
	VEHICLE DETECTION STATION

CONDUIT

	RACEWAY STUBOUT WITH CAP
	RACEWAY TURNED DOWN OR AWAY
	RACEWAY TURNED UP OR TOWARD
- - - - -	CONDUIT IN STRUCTURE
-------	UNDERGROUND DUCT
	CAPPED SLEEVE
	THROUGH FLOOR OR WALL SLAB
⊠	BLOCK OUT, SIZE AS INDICATED

GENERAL NOTES

1. ALL CONDUITS SHALL BE EMBEDDED IN FLOOR SLAB ON PLAN VIEW OF LEVEL SHOWN UNLESS NOTED OTHERWISE.
2. SEE SHEET NO. TT14 FOR CONDUIT AND PULL BOX SCHEDULES.
3. THREAD AND CAP ALL SLEEVES THROUGH STRUCTURE AT EACH END AND ALL CONDUITS THAT DO NOT TERMINATE IN A PULLBOX.
4. END BELLS REQUIRED FOR ALL CONDUITS 3" OR GREATER.
5. INSTALL CONTINUOUS PULLING WIRE IN ALL CONDUITS AND TAG THE RACEWAY AT EACH END WITH CONDUIT DESIGNATION TAG, DETAIL 5 / TB3.
6. CONDUIT SIZES SHOWN IN CONTRACT DOCUMENTS REFERENCE THE MINIMUM INSIDE DIAMETER REQUIRED.

CONDUIT NUMBERING SYSTEM

S-1 THRU S-99	SYSTEMWIDE DUCTBANK FROM CONTROL BUILDING TO HAIKU APPROACH.
S-100 THRU S-199	BRANCH CIRCUITS, TUNNEL & EQUIP. ROOMS (ODD=INBOUND; EVEN=OUTBOUND)
S-200 THRU S-299	RESERVED
S-300 THRU S-399	RESERVED
S-400 THRU S-499	RESERVED
S-500 THRU S-599	RESERVED
S-600 THRU S-699	HAIKU I.B. PORTAL BUILDING
S-700 THRU S-799	HAIKU O.B. PORTAL BUILDING
S-800 THRU S-899	HAIKU APPROACH
S-900 THRU S-999	RESERVED

PULLBOX IDENTIFICATION SYSTEM

PBS-15	PULLBOX; SYSTEMS, TYPE 2
PBS-IN	PULLBOX; SYSTEMS, X-PSG #1, INBOUND
PBS-4S	PULLBOX; SYSTEMS, X-PSG #4, OUTBOUND
PBT-5.IN	PULLBOX; TRAFFIC CONTROL, X-PSG #5, INBOUND
HHS-1.1S	PULLBOX; HANDHOLE, X-PSG #1, OUTBOUND
NEC-2.0	PULLBOX; COMMUNICATIONS, HAIKU IB PORTAL, SECOND FLOOR LEVEL
SEF-3.0	PULLBOX; FIRE PROTECTION, HAIKU OB PORTAL, THIRD FLOOR LEVEL
NET-2.0	PULLBOX; TRAFFIC CONTROL, HAIKU IB PORTAL, SECOND FLOOR LEVEL
JBF-5.2S	PULL BOX; FIRE DETECTION, TUNNEL, OUTBOUND

CIRCUIT IDENTIFIERS

FP	FIRE PROTECTION
ID	INTRUSION DETECTION
SC	SUPERVISORY & CONTROL
T	TELEPHONE
SP	SPARE(EMPTY)
IC	INTER-COMMUNICATIONS
S-600	CONDUIT IDENTIFICATION NUMBER
TC	TRAFFIC CONTROL
C	COMMUNICATIONS
CO	CARBON MONOXIDE

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/29/89
	TRACED BY W.WILLIAMS	5/26/89
NOTEBOOK	DESIGNED BY	
	QUANTITIES BY H.SMITH	11/30/89
No.	CHECKED BY	

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M. O. T. Ching

DATE	REVISION
4/26/90	REVISED CIRCUIT IDENTIFIERS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS LEGEND

STANDARDS

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

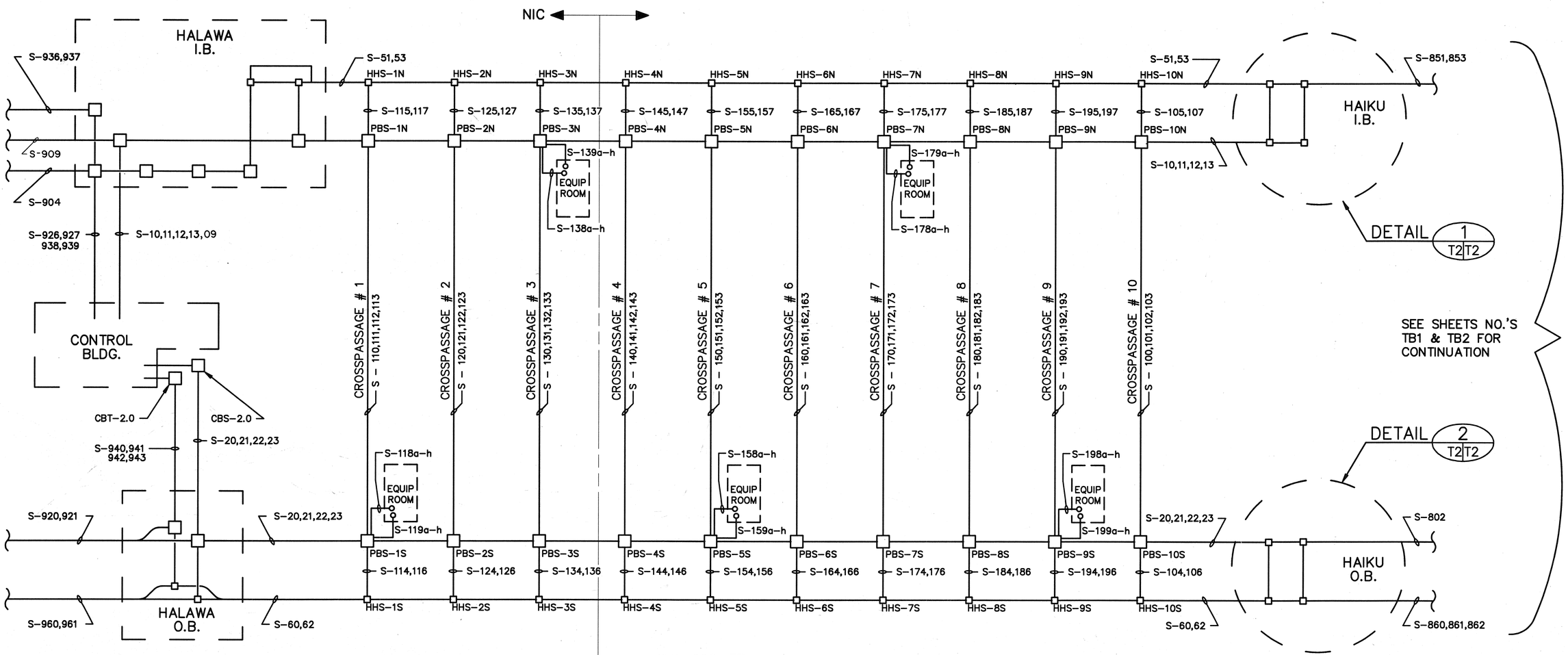
SCALE: NONE DATE: JAN. 1990

SHEET NO. T1 OF 2 SHEETS

H3SC-T1 -H3-C2 -12-19-89

ADD. 385

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	386	424



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 11/9/88
	DRAWN BY CADD	6/28/88
NOTEBOOK	TRACED BY W.WILLIAMS	
	DESIGNED BY H.SMITH	
No.	QUANTITIES BY	
	CHECKED BY	11/10/88

DATE	REVISION
4/26/90	REVISED CONDUIT IDENT. NUMBER

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT RISER DIAGRAM

STANDARDS

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: NONE DATE: JAN. 1990

SHEET NO. T2 OF 2 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

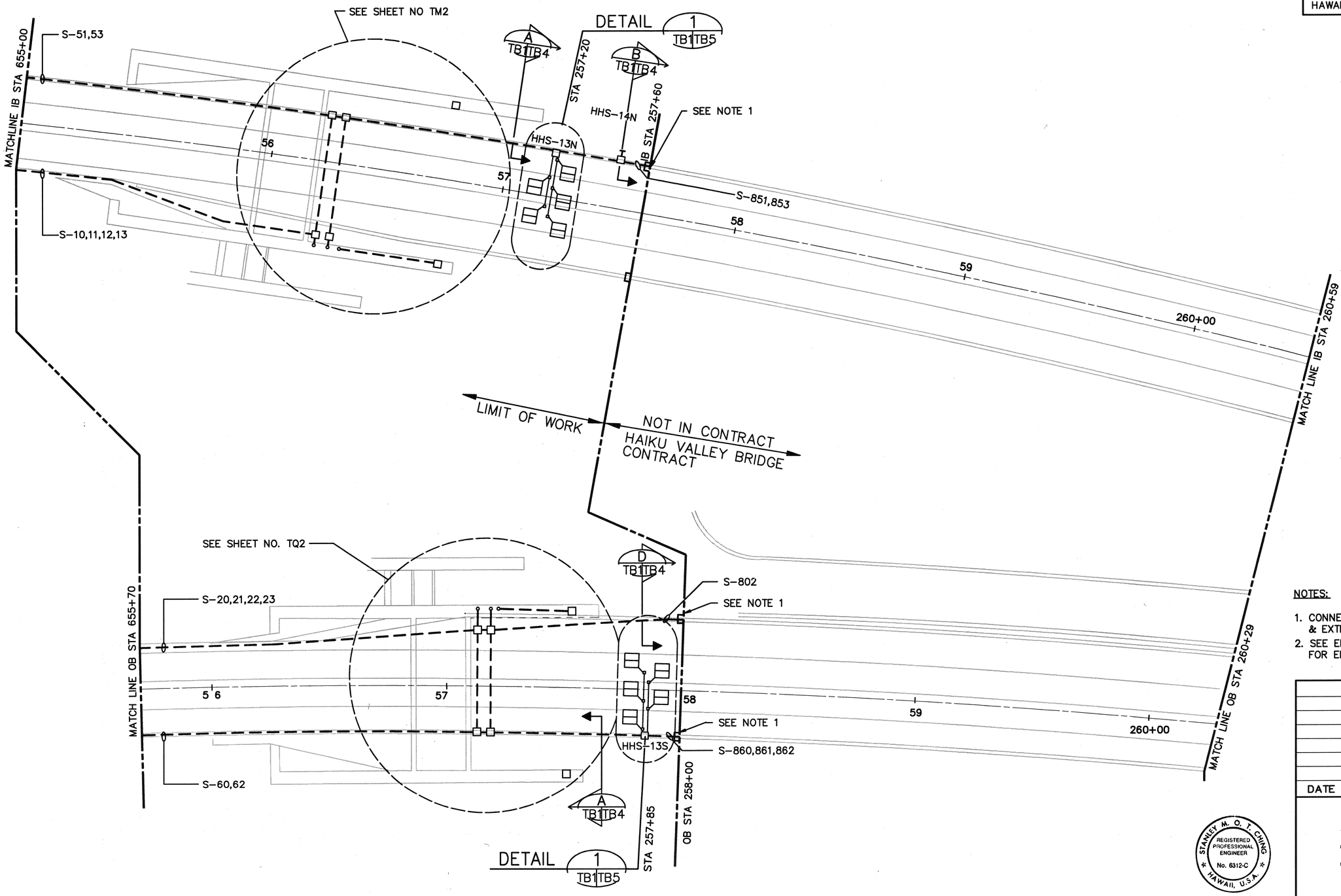
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

H3SC-T2 -H3-C2 -12-15-89

ADD. 386

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	387	424



FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

NOTES:

1. CONNECT TO EXISTING CONDUITS & EXTEND AS INDICATED.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL CONDUITS

DATE	REVISION

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

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Stanley M.O.T. Ching

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

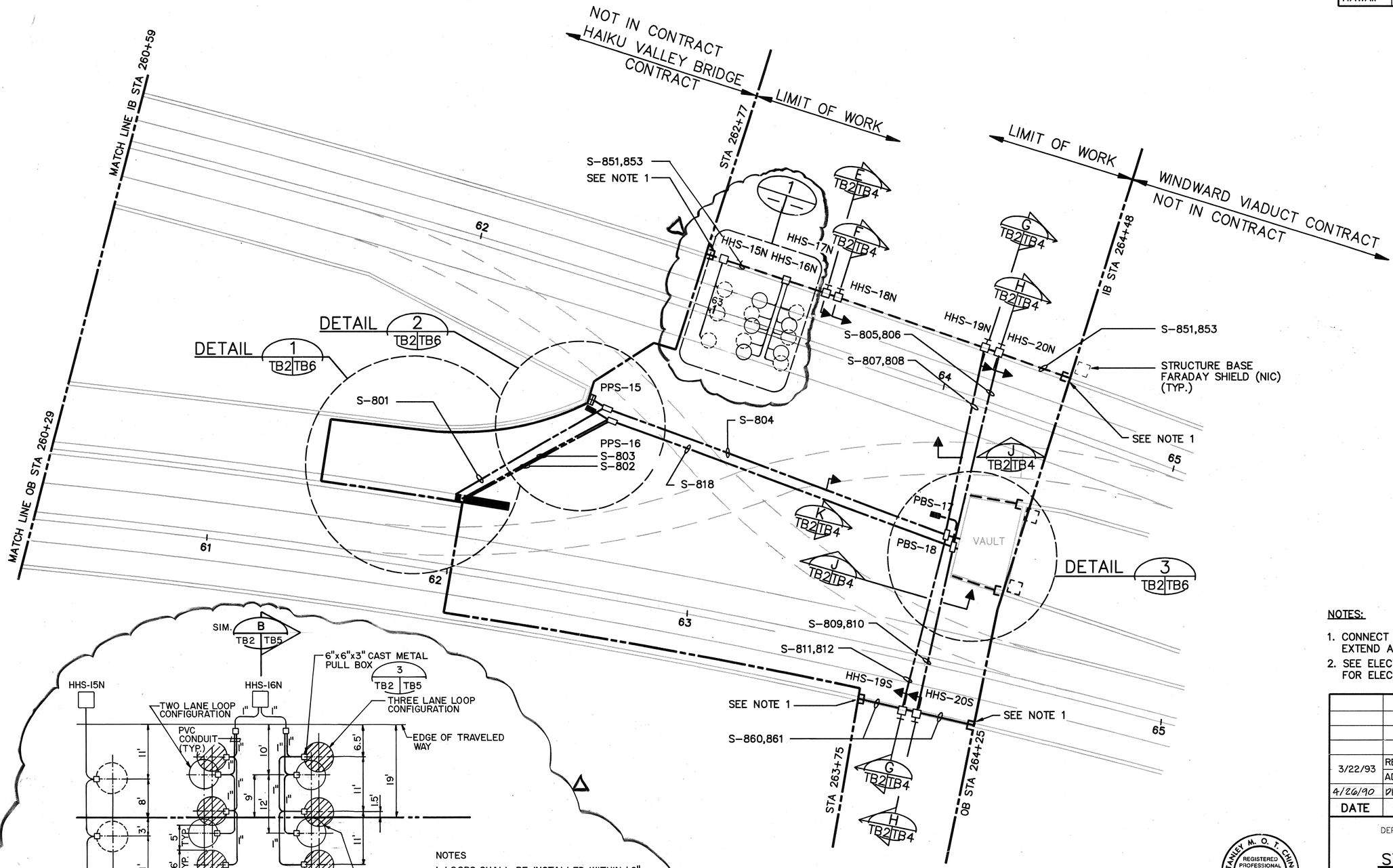
SYSTEMS CONDUIT
ROADWAY LEVEL-1
HAIKU APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

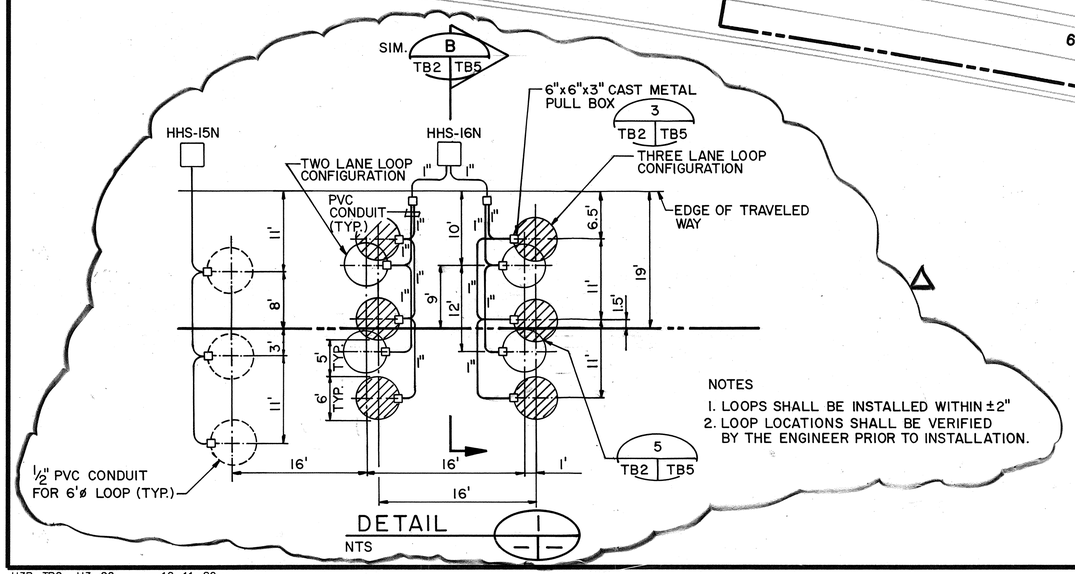
SCALE: 1" = 20'-0" DATE: JAN. 1990
SHEET NO. TB1 OF 6 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY:	
	DRAWN BY: CADD	11/9/89
	TRACED BY:	
NOTEBOOK	DESIGNED BY: D.ANDERSON	6/26/89
	QUANTITIES BY:	
No.	CHECKED BY: H.SMITH	11/10/89

H3P-TB1 -H3-C2 -12-11-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	I-H3-1(61)	1990	388	424





NOTES
1. LOOPS SHALL BE INSTALLED WITHIN ±2"
2. LOOP LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

NOTES:

1. CONNECT TO EXISTING CONDUITS AND EXTEND AS INDICATED.
2. SEE ELECTRICAL SHEETS FOR ELECTRICAL CONDUITS

DATE	REVISION
3/22/93	REVISED LOOP CONFIGURATION AND
	ADDED DETAIL "I" PER DCN 61-037
4/26/90	DELETED CONDUIT S-862

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT ROADWAY LEVEL-2

HAIKU APPROACH

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990

SHEET NO. TB2 OF 6 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

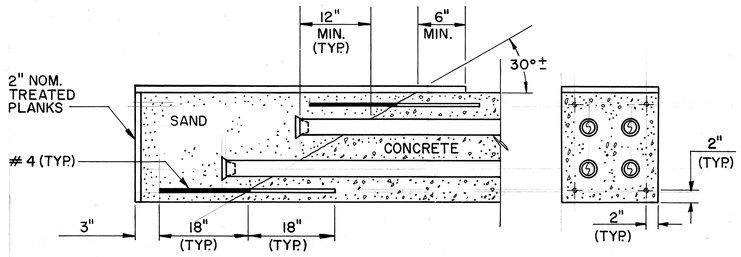
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/88
	TRACED BY	
	DESIGNED BY D.ANDERSON	6/26/89
NOTEBOOK	QUANTITIES BY	
	CHECKED BY H.SMITH	11/10/88
No.		

H3P-TB2 -H3-C2 -12-11-89

ADD. 388

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	389	424

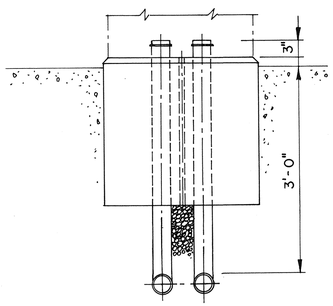


EXTEND SAND ENCASED REBAR TO WITHIN 3" OF PLANKS.
CUT CONDUIT TO LENGTH, FINISH EACH END FOR COUPLING, AND INSTALL PLASTIC PLUGS AND PULL WIRES IN ALL DUCTS.
NUMBER OF CONDUITS PER DUCTBANK MAY VARY.

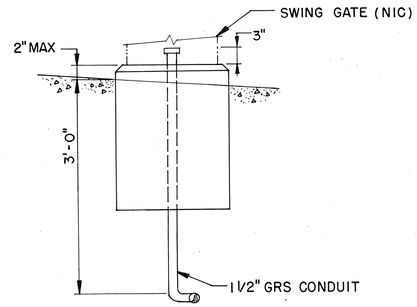
ENCASED CONDUIT TERMINATION DETAIL (N.I.C.)

NTS

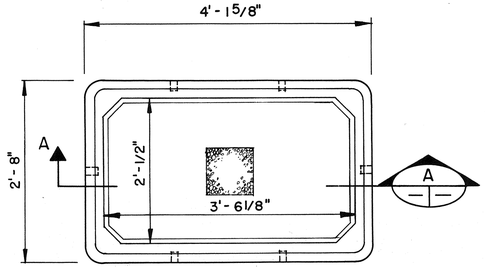
DETAIL 1 — TT1 | TB3



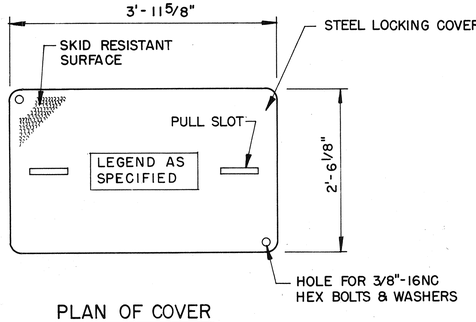
SECTION



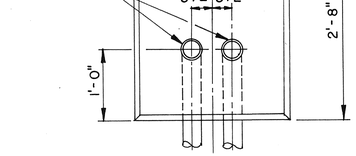
SECTION



PLAN



PLAN OF COVER

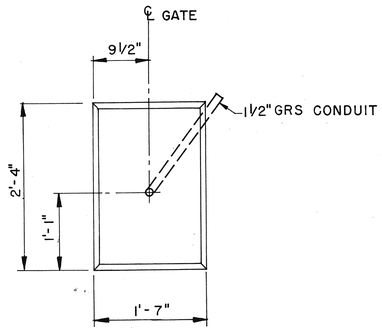


PLAN

CONTROLLER FOUNDATION

DETAIL 3 — TB6 | TB3, SB 28

SCALE: 1"=1'-0"

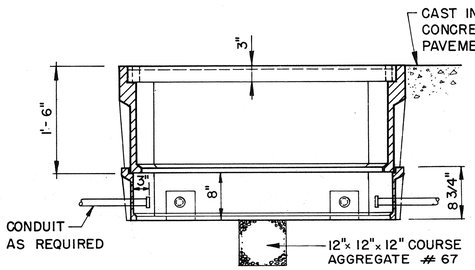


PLAN

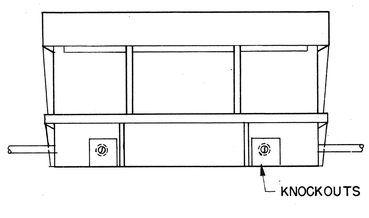
SWING GATE FOUNDATION

DETAIL 2 — TB6 | TB3, SB 28

SCALE: 1"=1'-0"



SECTION A-A



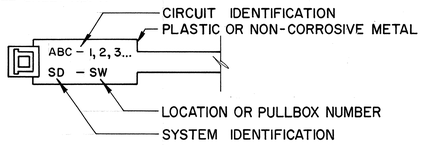
ELEVATION

NOTES:
BOXES SHALL BE POLYMER CONCRETE, FIBER GLASS REINFORCED.
PROVIDE STACKED BOXES WITH APPROPRIATE KNOCK OUTS TO ACCOMMODATE REQUIRED NUMBER & SIZES OF CONDUITS.
FOR LEGEND SEE SHEET NO. T1

TYPE 2 PULL BOX

DETAIL 4 — TB2 | TB3

SCALE: 1"= 1'-0"



CABLE MARKER TIES DETAIL

NTS

DETAIL 5 — T1 | TB3

NOTE:

1. SEE STRUCTURAL PLANS FOR FOUNDATION CONSTRUCTION DETAILS.

GRAPHIC SCALE

1' 6" 0' 1' 2'

1"=1'-0"

ORIGINAL PLANS	SURVEY PLOTTED BY	DATE 6/7/89
	DRAWN BY R. ESGUERRA	" " "
	TRACED BY	" " "
NOTE BOOK	DESIGNED BY D. ANDERSON	6/7/89
	QUANTITIES BY	" " "
No.	CHECKED BY J. SMITH	6/7/89

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

DATE	REVISION
4/26/90	INDICATED DETAIL 1 AS N.I.C.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS

MISCELLANEOUS DETAILS

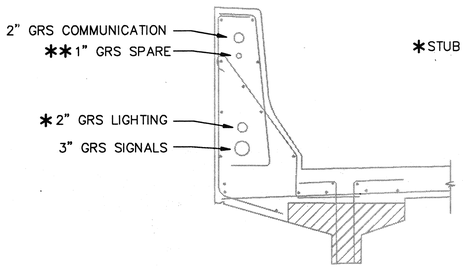
HAIKU APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS NOTED DATE: JAN. 1990

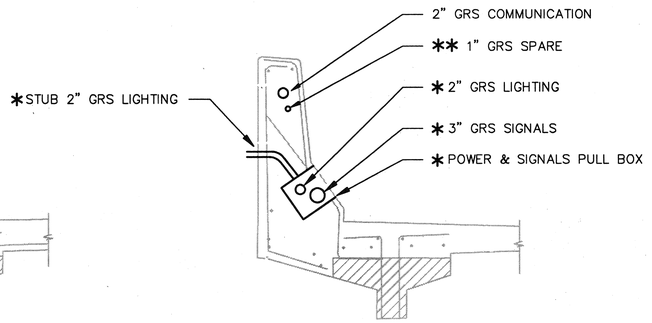
SHEET NO. TB3 OF 6 SHEETS

ADD. 389

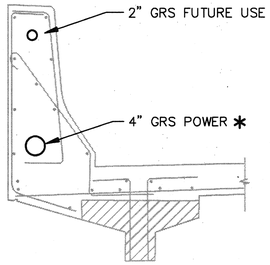
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	390	424



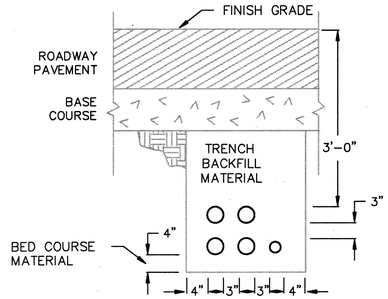
SECTION A TB1 TB4



SECTION B TB1 TB4



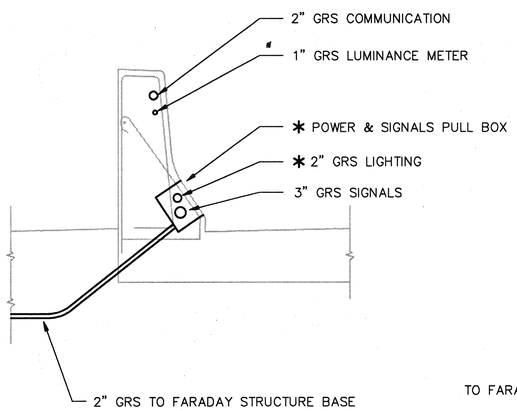
SECTION D TB1 TB4



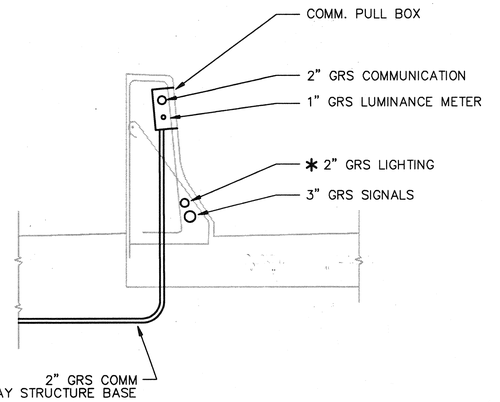
TYPICAL TRENCH SECTION FOR CONDUITS

*DENOTES CONDUITS AND PULL BOXES TO BE INSTALLED UNDER ELECTRICAL

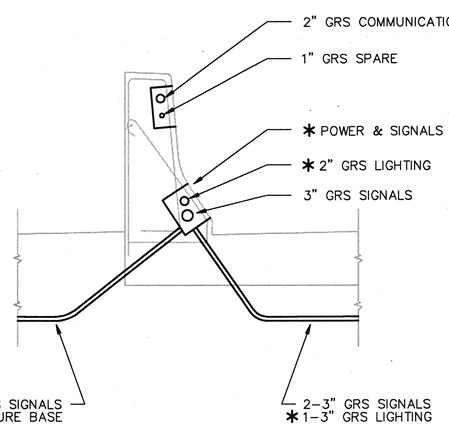
** DENOTES THIS CONDUIT TO BE DESIGNATED AS LUMINANCE METER CONDUIT (IB ROADWAY ONLY)



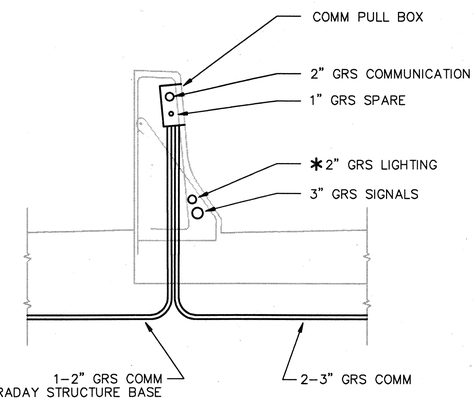
SECTION E TB2 TB4



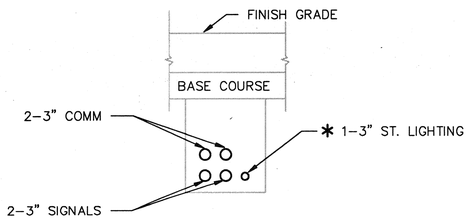
SECTION F TB2 TB4



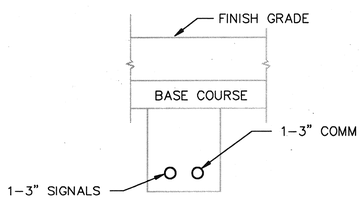
SECTION G TB2 TB4



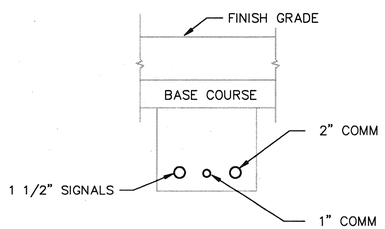
SECTION H TB2 TB4



SECTION J TB2 TB4



SECTION K TB2 TB4



SECTION L TB4 TB6

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 11/29/89
	DRAWN BY CADD	
	TRACED BY	
NOTEBOOK	DESIGNED BY D.ANDERSON	5/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS & DETAILS

HAIKU APPROACH

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: NONE DATE: JAN. 1990

SHEET NO. TB4 OF 6 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

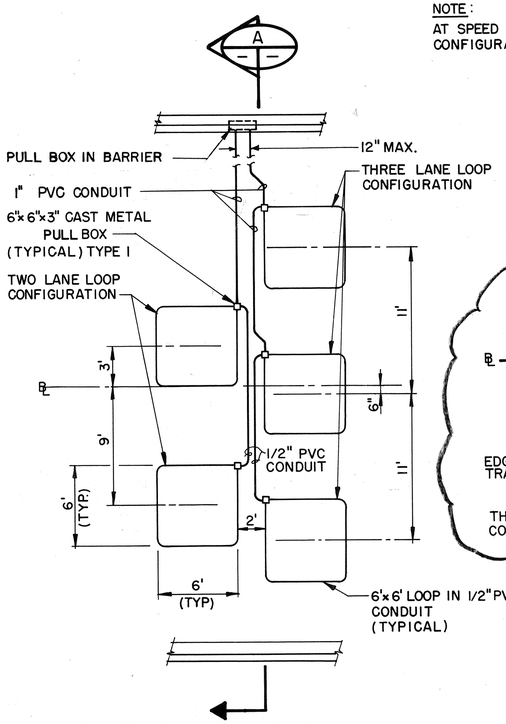
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

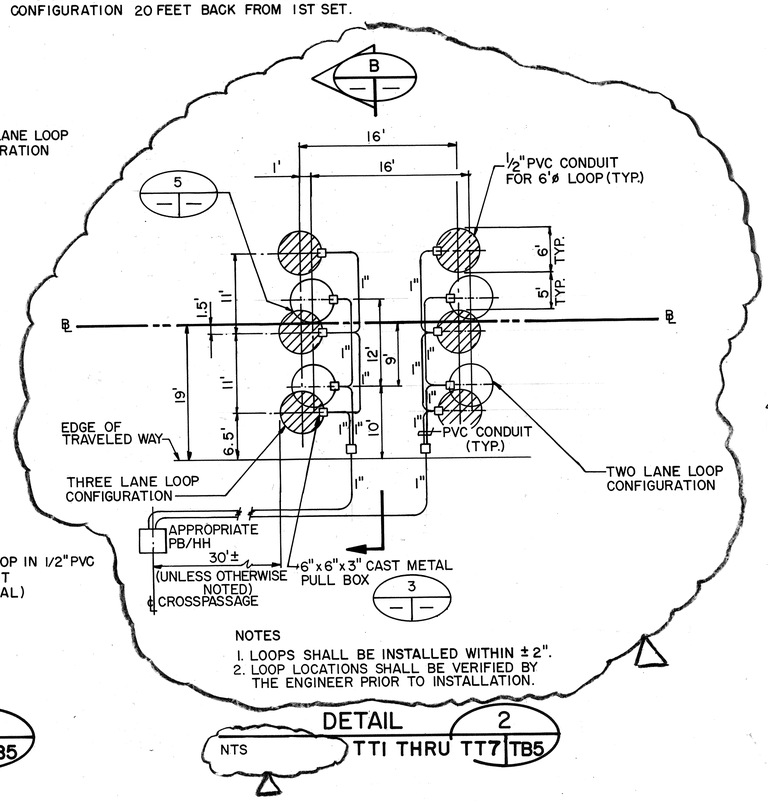
Stanley M.O.T. Ching

H3P-TB4 -H3-C2 -12-11-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	391	424

NOTE:
AT SPEED LOOP LOCATIONS INSTALL IDENTICAL CONFIGURATION 20 FEET BACK FROM 1ST SET.

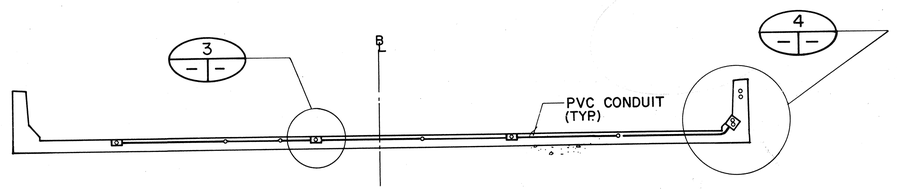




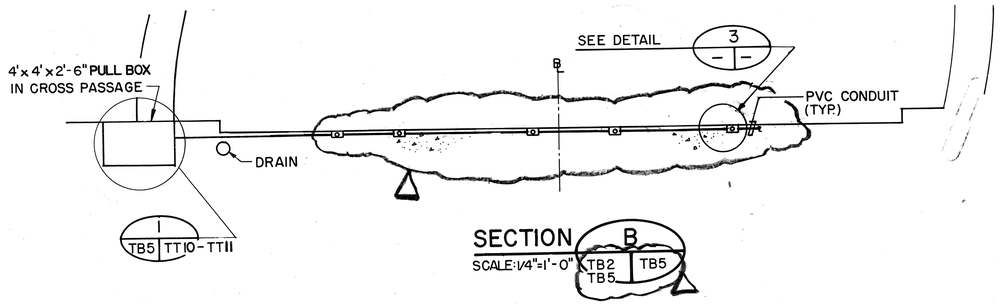
NOTES
1. LOOPS SHALL BE INSTALLED WITHIN ± 2".
2. LOOP LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

DETAIL 1 — SCALE: 3/16" = 1'-0" — TB1 | TB5

DETAIL 2 — NTS — TT1 THRU TT7 | TB5

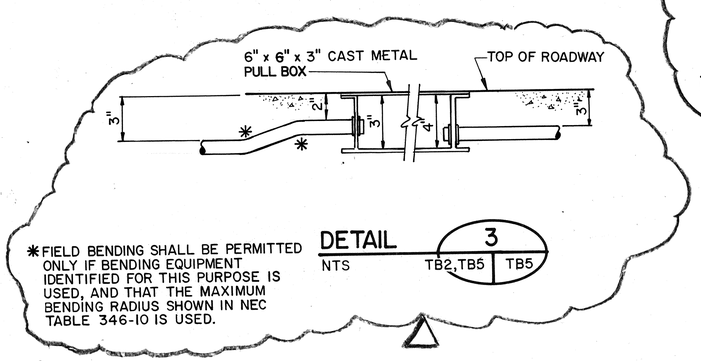


SECTION A — SCALE: 1/4" = 1'-0"

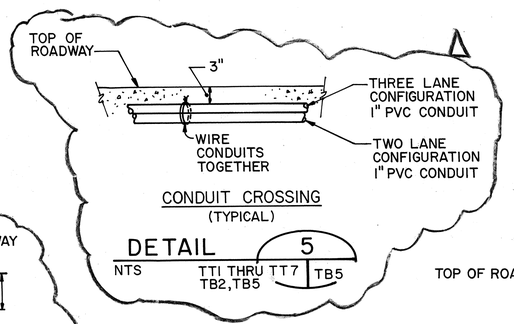


SECTION B — SCALE: 1/4" = 1'-0" — TB2 | TB5 / TB5

NOTES: DETAIL NO.1 VEHICLE DETECTOR STATION TO BE LOCATED AT THE FOLLOWING CIVIL STATIONS:
IB 257+20
IB 263+10
IB 263+30
OB 258+00

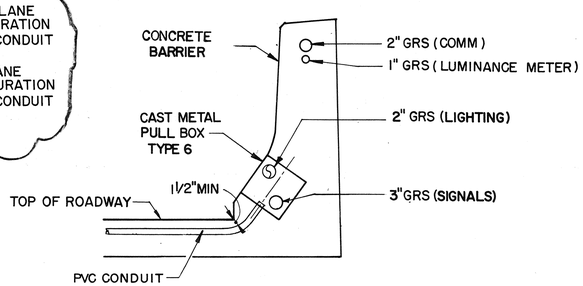


DETAIL 3 — NTS — TB2,TB5 | TB5



CONDUIT CROSSING (TYPICAL)

DETAIL 5 — NTS — TTI THRU TT7 TB2,TB5 | TB5



DETAIL 4 — NTS

GRAPHIC SCALE
4' 2' 0' 4' 8'
1/4" = 1'-0"
4' 0' 4' 8' 12'
3/16" = 1'-0"
0" 3" 6" 9" 1'
3" = 1'-0"

STANLEY M. O. T. CHING — REGISTERED PROFESSIONAL ENGINEER — No. 6312-C — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M. O. T. Ching

ORIGINAL PLANS	SURVEY PLOTTED BY	DATE
	DRAWN BY R.MIYAMOTO/A	6/5/89
	TRACED BY	6/5/89
NOTE BOOK	DESIGNED BY B. HARIMATSU	6/5/89
	QUANTITIES BY	
NO.	CHECKED BY T. SMITH	6/5/89

DATE	REVISION
3/22/93	REV. SECT. 'B', DETAILS '1', '2' & '3'; ADDED DETAIL '5' PER DCN 61-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS — VEHICLE DETECTION DETAILS

HAIKU APPROACH

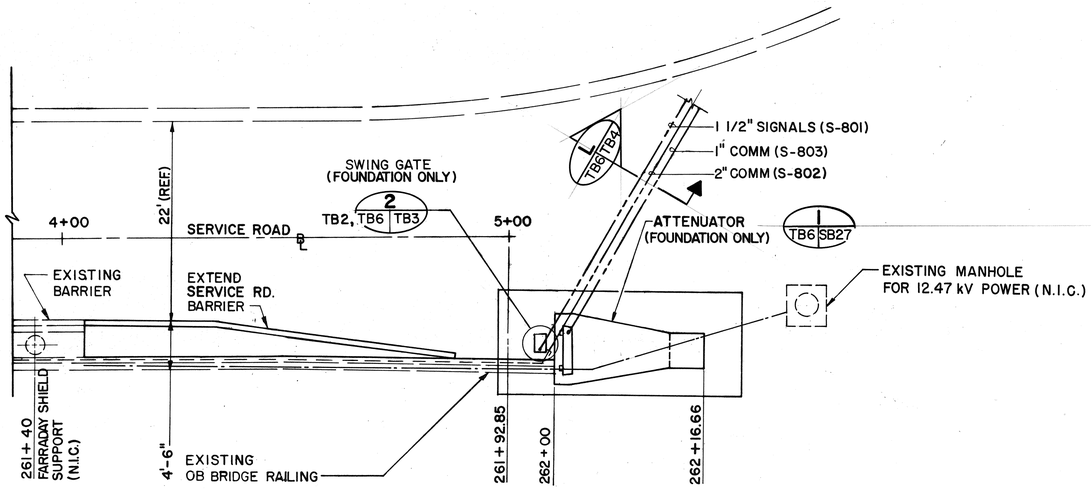
INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

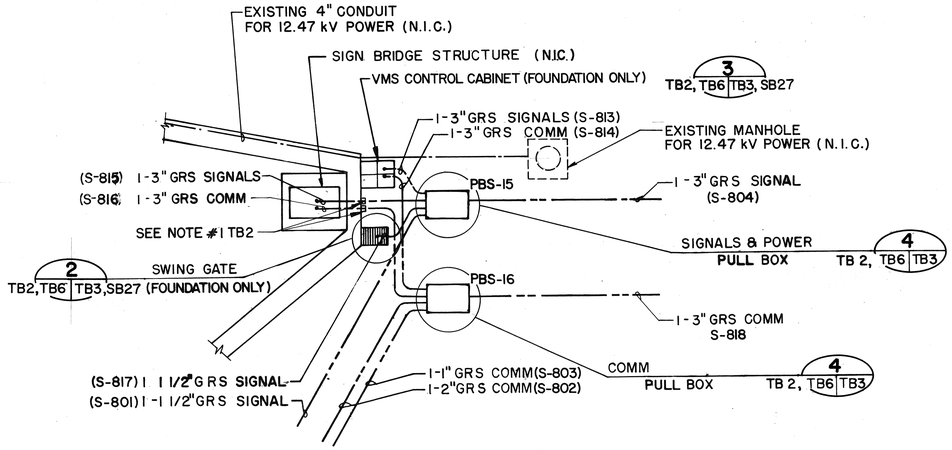
SCALE: AS NOTED — DATE: JAN. 1990

SHEET NO. TB5 OF 6 SHEETS

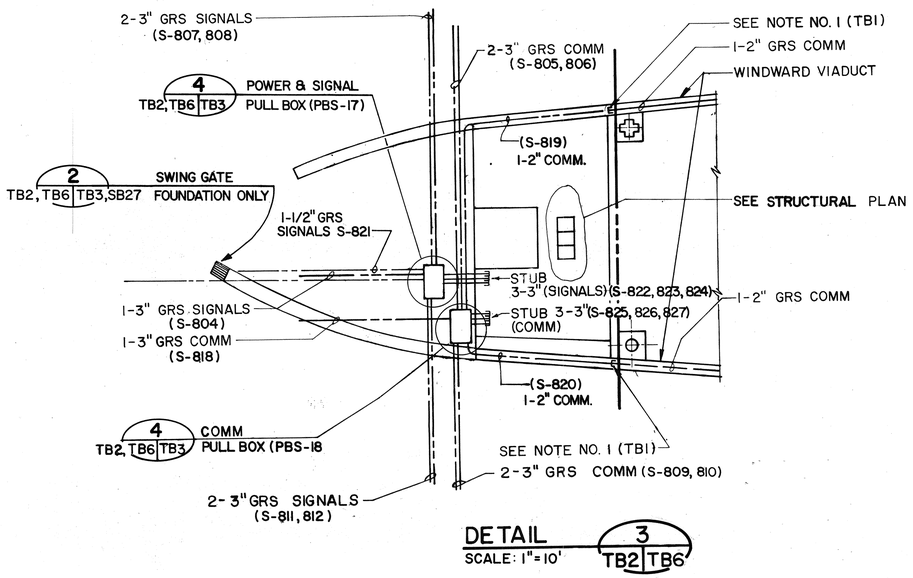
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	392	424



DETAIL 1 — SCALE: 1/8" = 1'-0" — TB2 | TB6



DETAIL 2 — SCALE: 3/16" = 1'-0" — TB2 | TB6



DETAIL 3 — SCALE: 1" = 10' — TB2 | TB6

NOTES:

1. SEE CIVIL & STRUCTURAL PLANS FOR LAYOUT & CONSTRUCTION OF FOUNDATIONS FOR FUTURE SWING GATES, VMS CONTROLLER AND ATTENUATOR.
2. SEE ELECTRICAL SHEETS FOR OTHER ELECTRICAL CONDUITS.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 6/15/89
	DRAWN BY JR HOMOLYA	" "
NOTE BOOK	TRACED BY	6/15/89
	DESIGNED BY B. NAKAMATSU	" "
No.	QUANTITIES BY	" "
	CHECKED BY H. SMITH	6/15/89

GRAPHIC SCALE

10' 5' 0' 10' 20' — 1"=10'

8' 4' 0' 8' 16' — 1/8"=1'-0"

4' 0' 4' 8 12' — 3/16"=1'-0"

STANLEY M. O. T. CHING — REGISTERED PROFESSIONAL ENGINEER — No. 6312-C — HAWAII, U.S.A.

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Stanley M.O.T. Ching

DATE	REVISION
4/26/90	ADDED NOTE 2 AND EXISTING (N.I.C.) CONDUIT & MANHOLE TO DETAILS 1 & 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

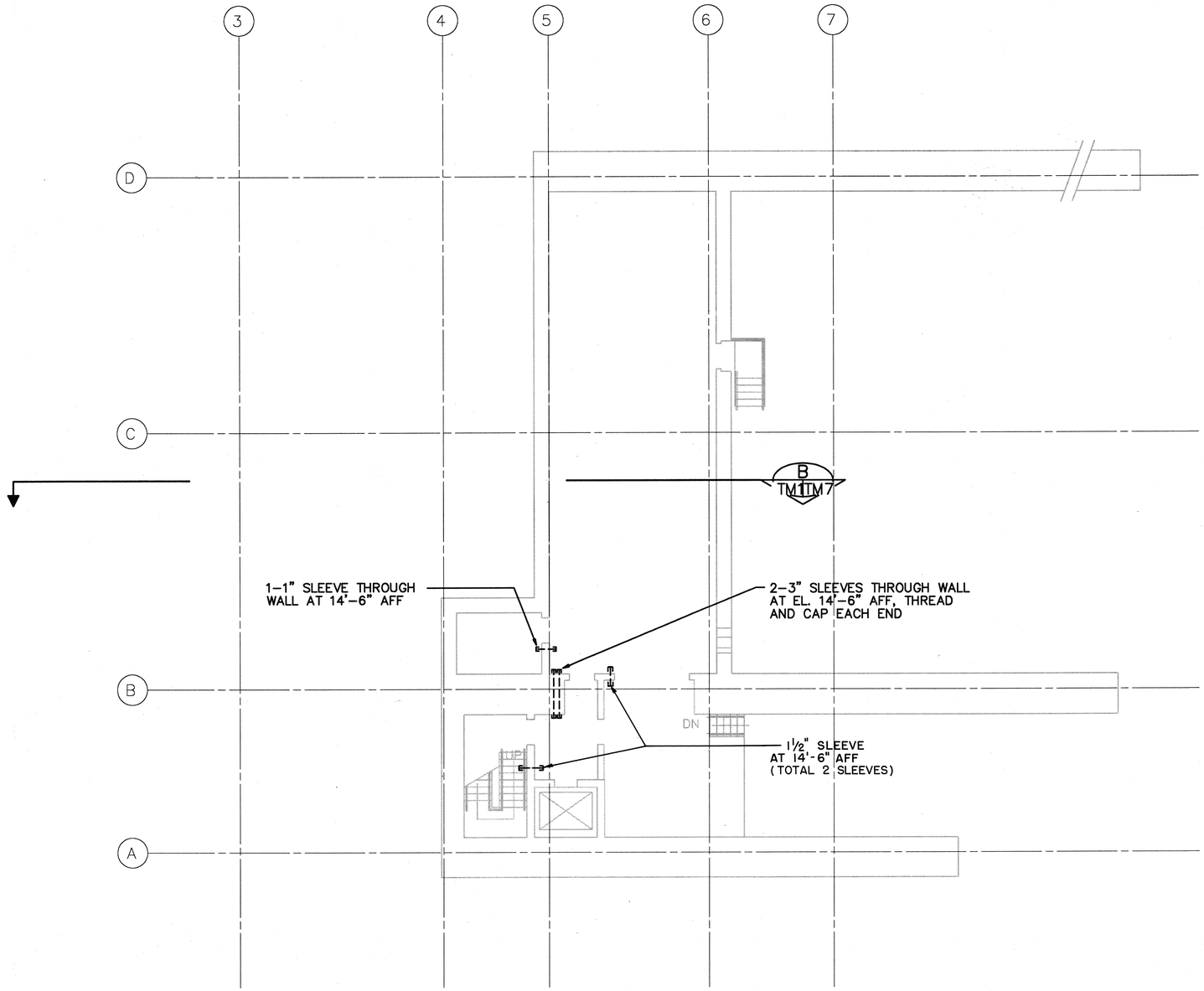
SYSTEMS CONDUIT LAYOUT
CROSSOVER AREA
HAIKU APPROACH
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS NOTED — DATE: JAN. 1990

SHEET NO. TB6 OF 6 SHEETS

ADD. 392

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	393	424



GRAPHIC SCALE:

8' 4' 0' 8' 16'

1/8" = 1'-0"

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
4/26/90	ADDED 2-1½" SLEEVES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL A PLAN

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TM1 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

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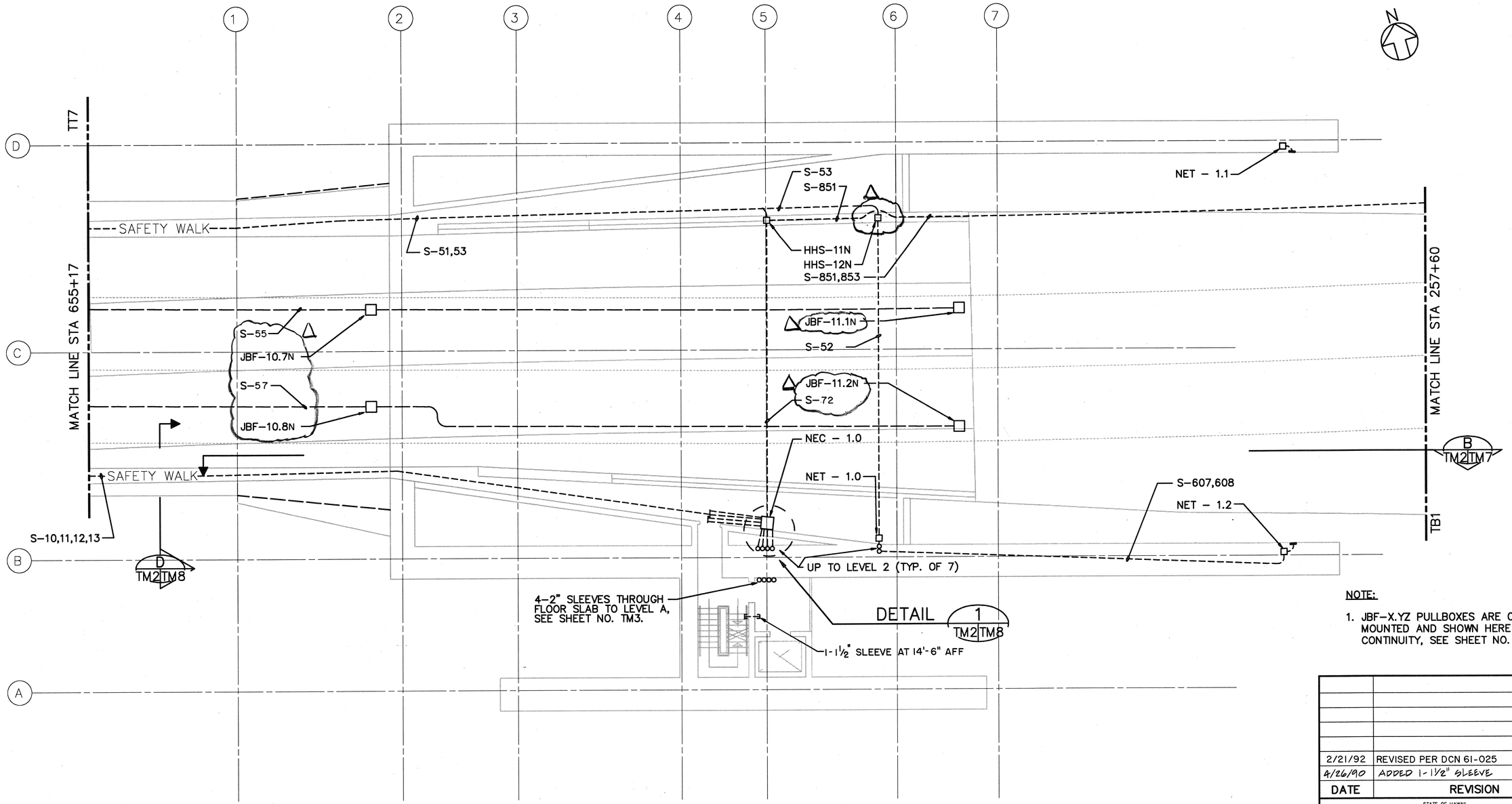
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	5/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

H3SC-TM1-H3-C2 -12-12-89

ADD. 393

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	394	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

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

2/21/92	REVISED PER DCN 61-025
4/26/90	ADDED 1-1½" SLEEVE
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 1 PLAN

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TM2 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

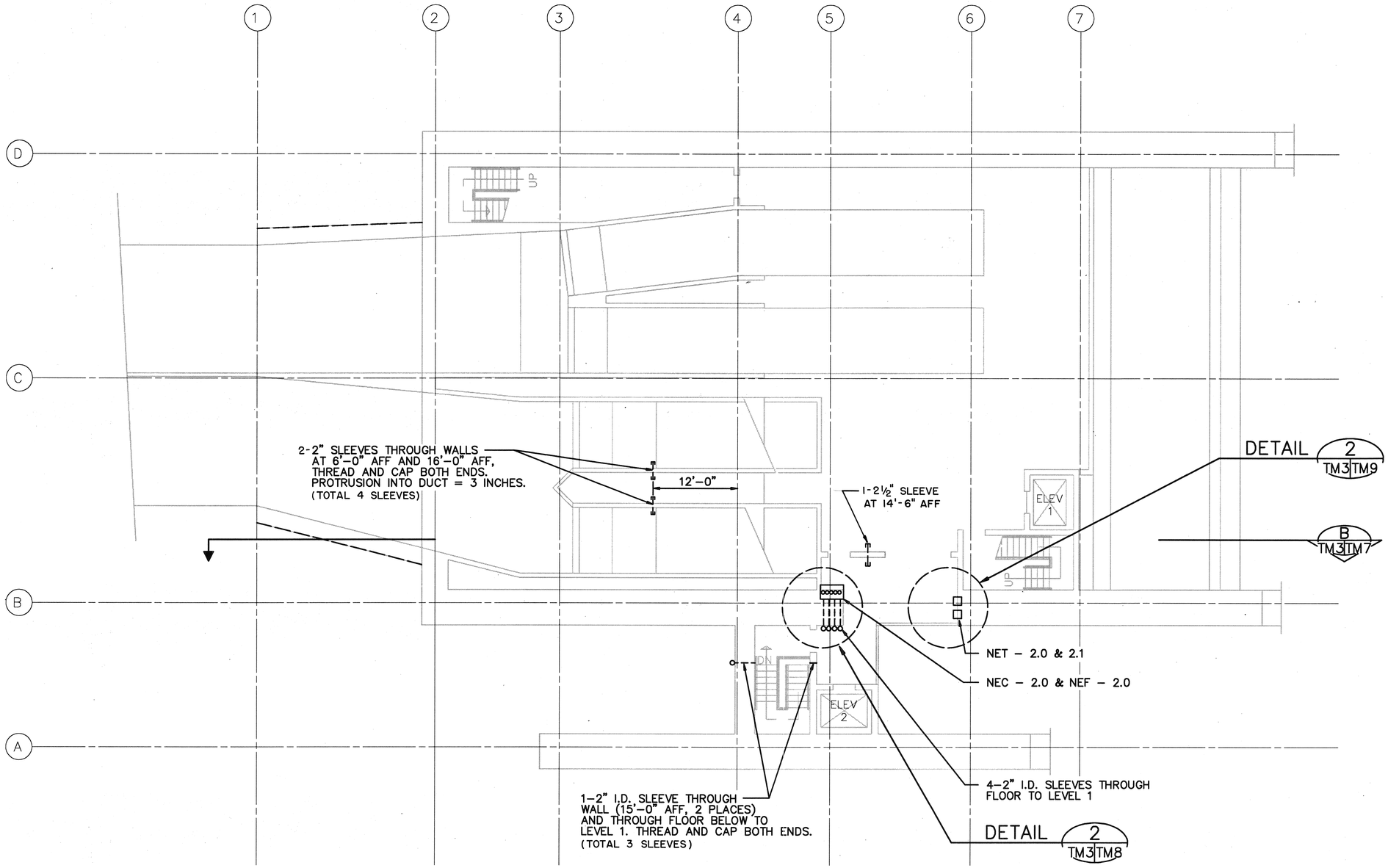
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY	CADD 11/9/89
	TRACED BY	6/26/89
NOTEBOOK	DESIGNED BY	W.WILLIAMS
	QUANTITIES BY	H.SMITH
No.	CHECKED BY	11/10/89

H3SC-TM2-H3-C2 -12-11-89

ADD. 394

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	395	424



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

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY:	
	DRAWN BY: CADD	11/9/88
	TRACED BY:	
	DESIGNED BY: W.WILLIAMS	6/26/89
NOTEBOOK	QUANTITIES BY:	
No.	CHECKED BY: H.SMITH	11/10/89

DATE	REVISION
4/26/90	ADDED 1-2½" SLEEVE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 2 PLAN

HAIKU PORTAL BUILDING–IB

INTERSTATE ROUTE H–3

F.A.I. PROJ. NO. I–H3–1(61)

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

SHEET NO. TM3 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

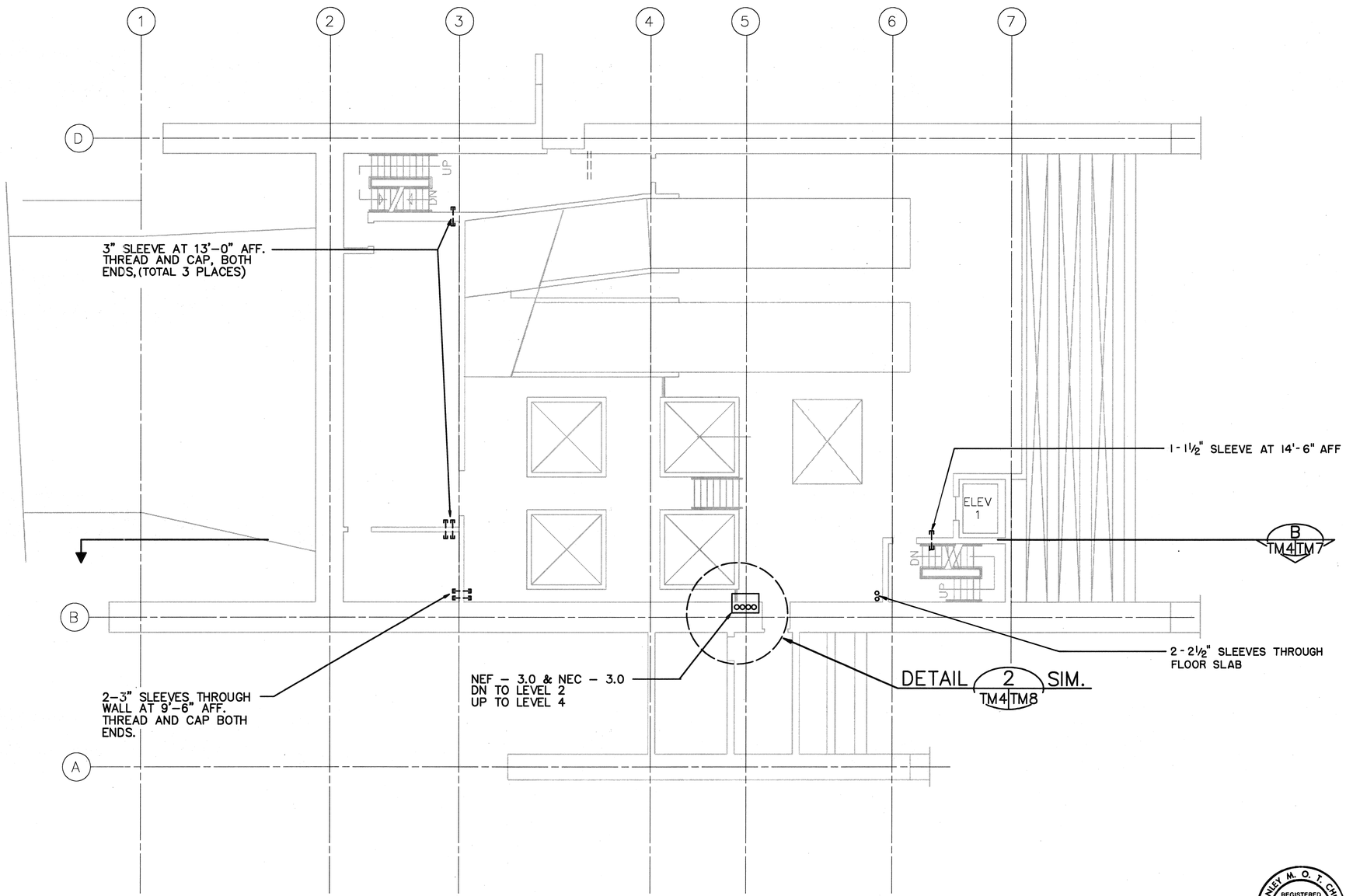
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

H3SC–TM3–H3–C2 –12–12–89

ADD. 395

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	396	424



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

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY: CADD	11/29/89
	DRAWN BY:	
	TRACED BY:	
NOTEBOOK	DESIGNED BY: W.WILLIAMS	6/26/89
	QUANTITIES BY:	
No.	CHECKED BY: H.SMITH	11/10/89

DATE	REVISION
4/26/90	ADDED 1-1½" SLEEVE THROUGH WALL & 2-2½ THROUGH FLOOR SLAB

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 3 PLAN

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TM4 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

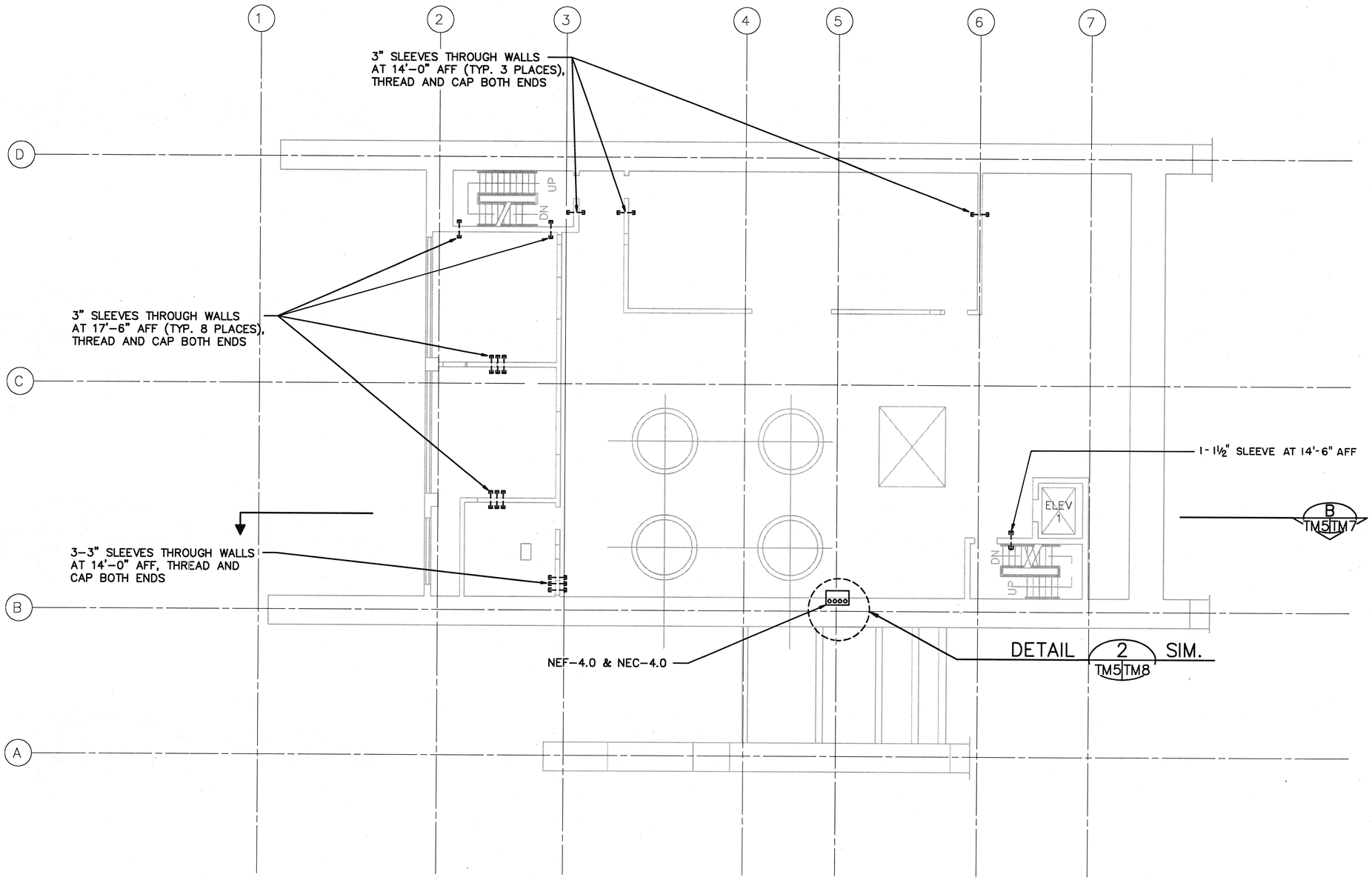
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

H3SC-TM4-H3-C2 -12-12-89

ADD. 396

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-(61)	1990	397	424



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

DATE	REVISION
4/26/90	ADDED 1-1½" SLEEVE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 4 PLAN

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

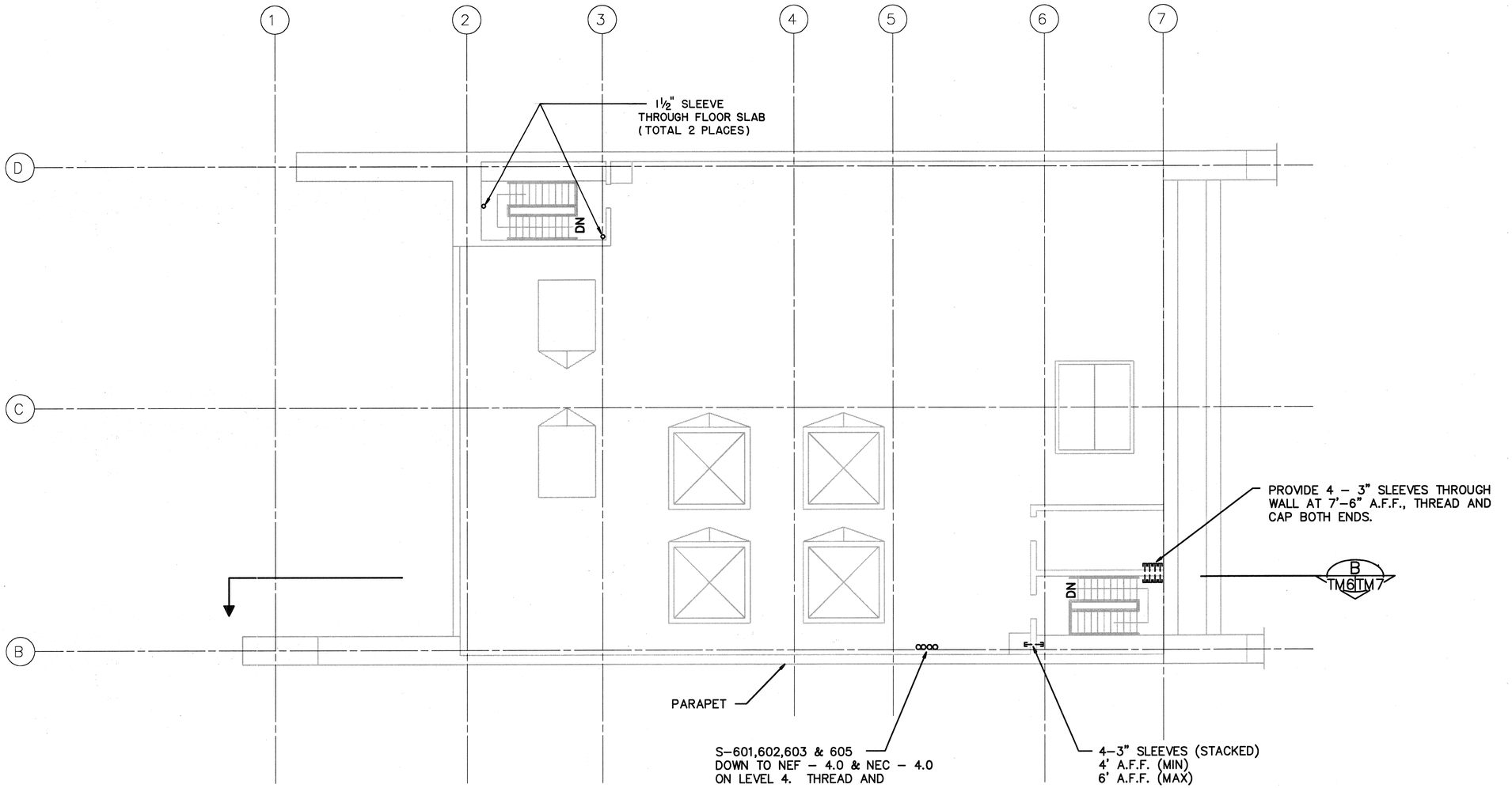
SCALE: 1/8" = 1'-0" DATE: JAN. 1990
SHEET NO. TM5 OF 9 SHEETS

ADD. 397

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/26/89
No.	QUANTITIES BY	
	CHECKED BY H.SMITH	11/10/89

H3SC-TM5-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	398	424



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

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
	DESIGNED BY W.WILLIAMS	5/26/89
NOTEBOOK	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

DATE	REVISION
4/26/90	ADDED 2-1½" SLEEVES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT ROOF PLAN

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TM6 OF 9 SHEETS

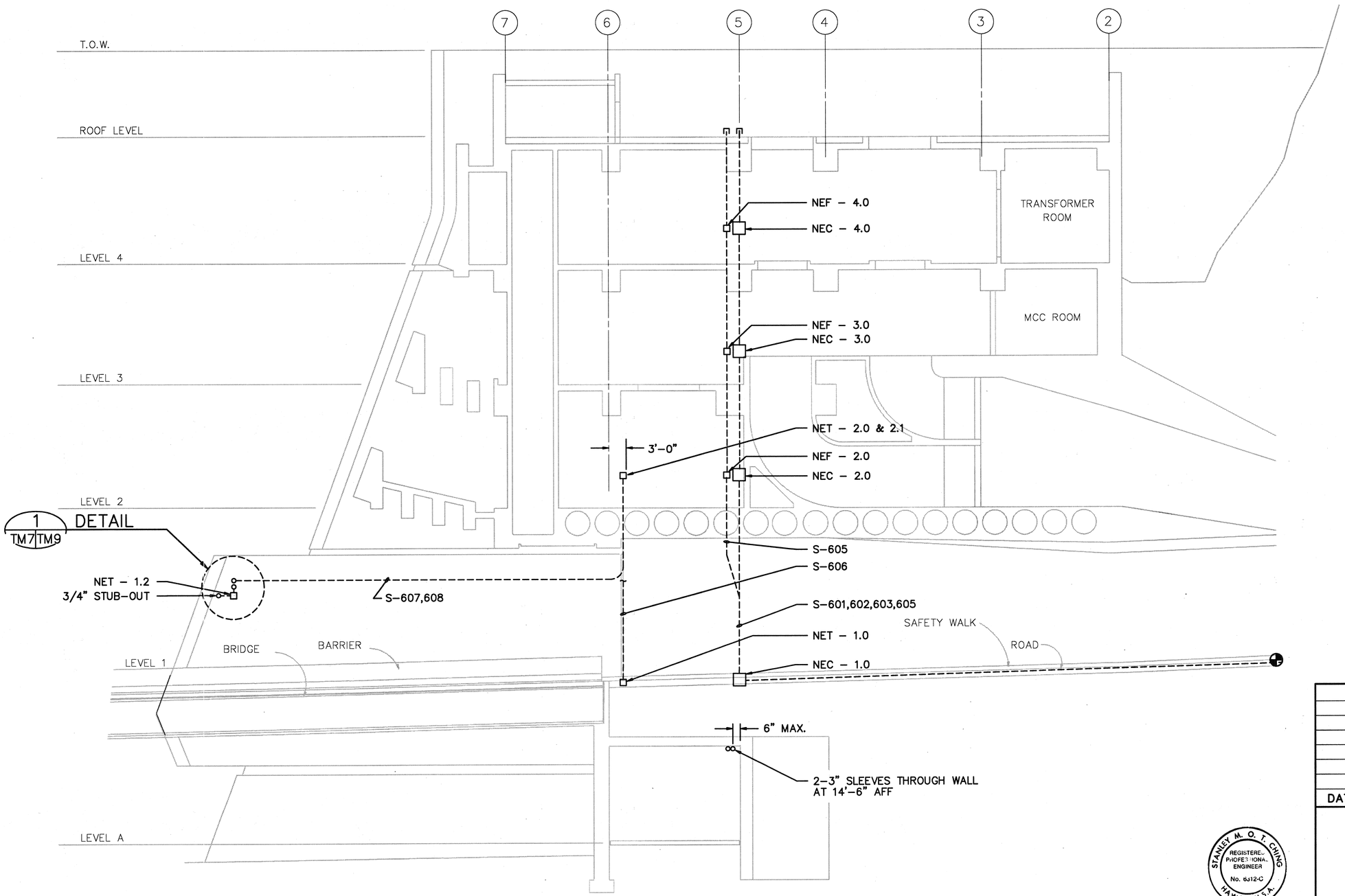
STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

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OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

H3SC-TM6-H3-C2 -12-12-89

ADD. 398

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	399	424



GRAPHIC SCALE:
8' 4' 0' 8' 16'
1/8" = 1'–0"

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
NOTEBOOK	DESIGNED BY M.WILLIAMS	5/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

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Stanley M.O.T. Ching

STANLEY M. O. T. CHING REGISTERED PROFESSIONAL ENGINEER No. 6312-C HAWAII, U.S.A.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTION B

HAIKU PORTAL BUILDING–IB

INTERSTATE ROUTE H–3

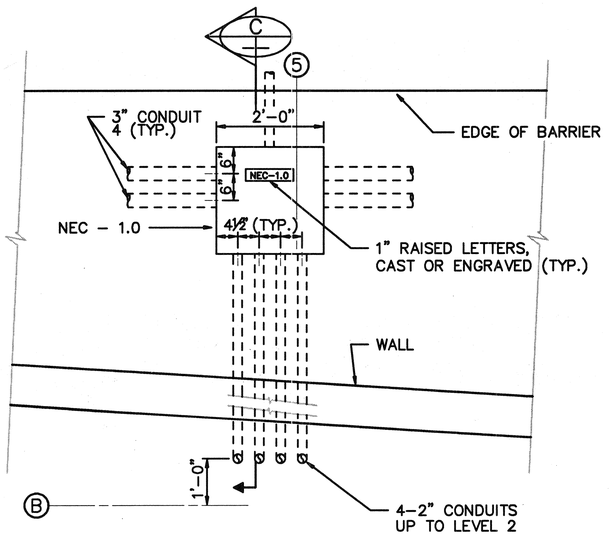
F.A.I. PROJ. NO. I–H3–1(61)

SCALE: 1/8" = 1'–0" DATE: JAN. 1990

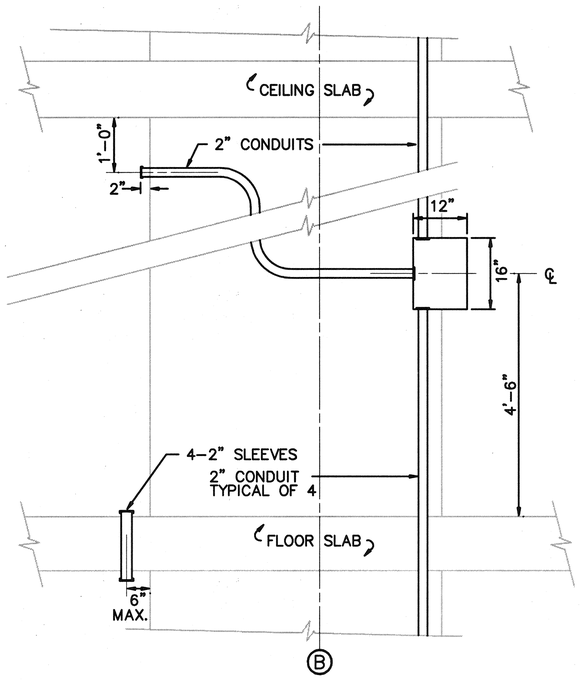
SHEET NO. TM7 OF 9 SHEETS

H3SC–TM7–H3–C2 –12–12–89

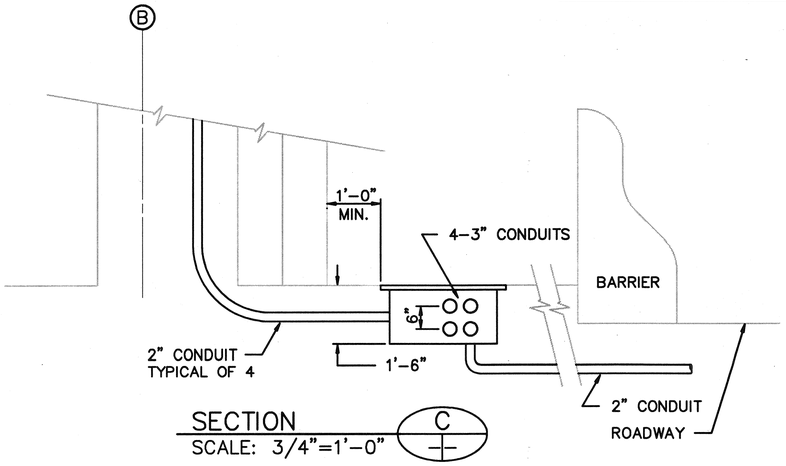
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	400	424



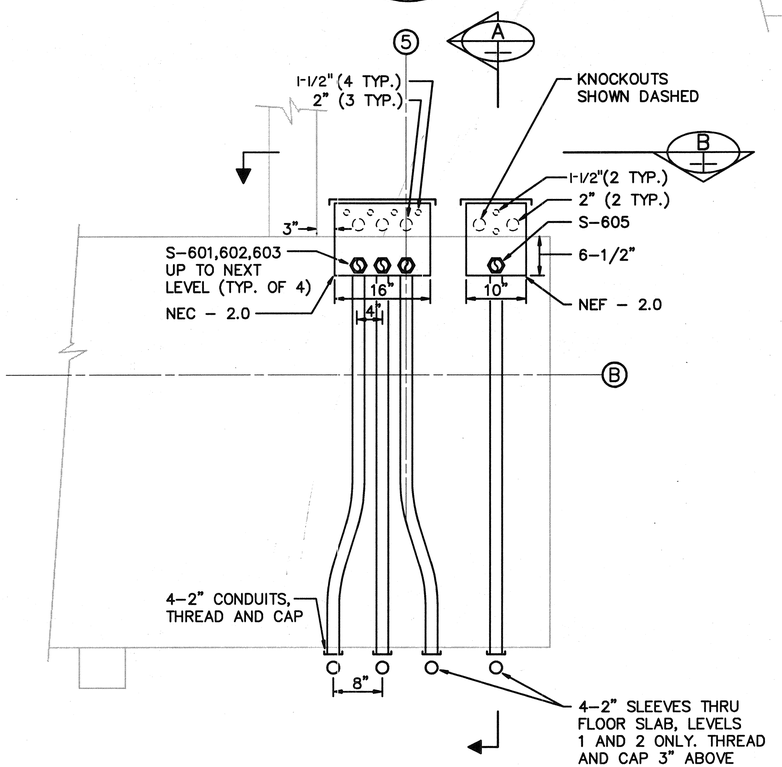
DETAIL 1 TM2 TM8
SCALE: 3/4"=1'-0"



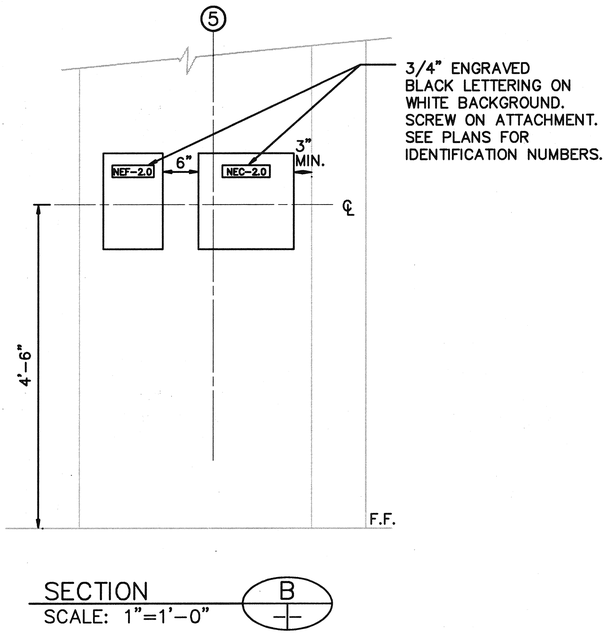
SECTION A
SCALE: 3/4"=1'-0"



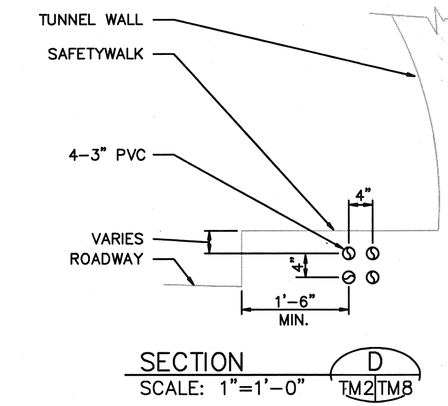
SECTION C
SCALE: 3/4"=1'-0"



DETAIL 2
SCALE: 1"=1'-0" TM5, TM4, TM3 TM8



SECTION B
SCALE: 1"=1'-0"



SECTION D
SCALE: 1"=1'-0" TM2 TM8

GRAPHIC SCALE:
12" 0' 1" 2' 3'
3/4" = 1'-0"

GRAPHIC SCALE:
12" 0' 1' 2'
1" = 1'-0"

DATE	REVISION
4/26/90	REVISED DETAIL 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS & DETAILS-1

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS SHOWN DATE: JAN. 1990

SHEET NO. TM8 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

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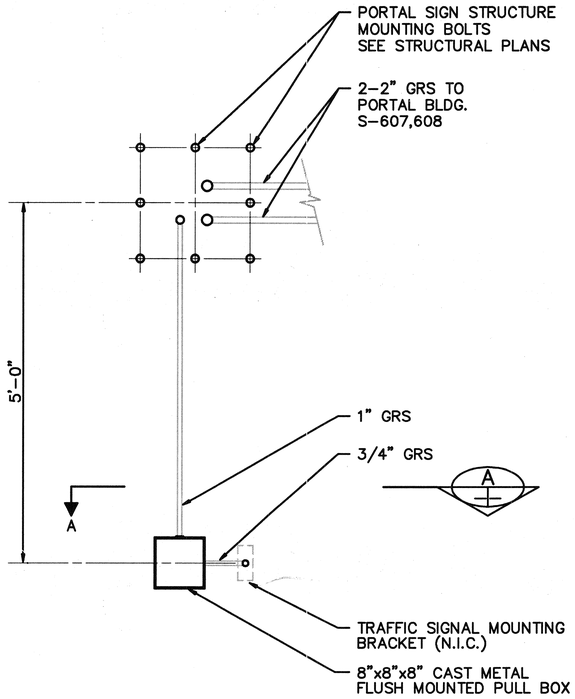
Stanley M.O.T. Ching

	ORIGINAL PLAN	NOTEBOOK
SURVEY PLOTTED BY		
DRAWN BY	CADD	
TRACED BY		
DESIGNED BY	M.WILLIAMS	
QUANTITIES BY		
CHECKED BY	H.SMITH	
DATE	11/9/89	5/26/89 11/10/89
No.		

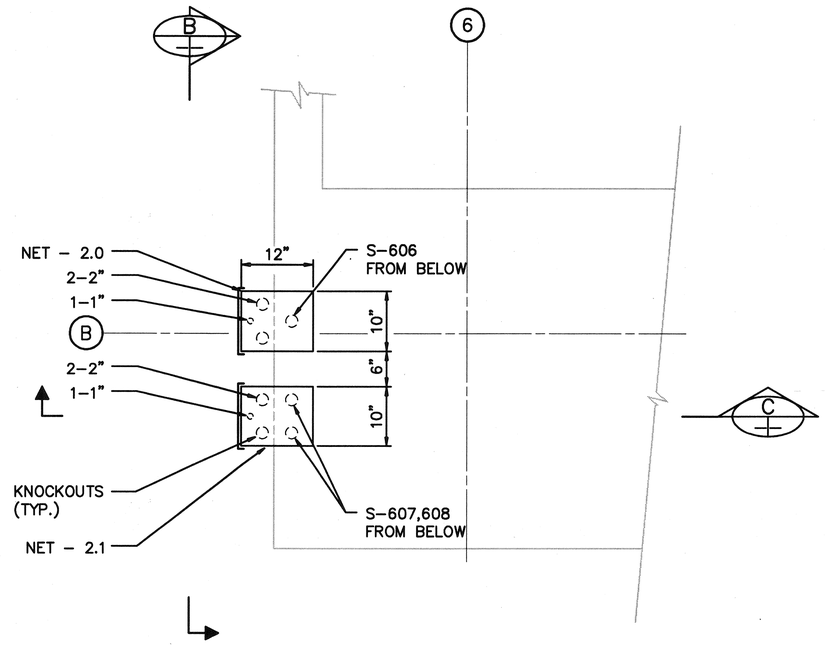
H3SC-TM8-H3-C2 -12-12-89

ADD. 400

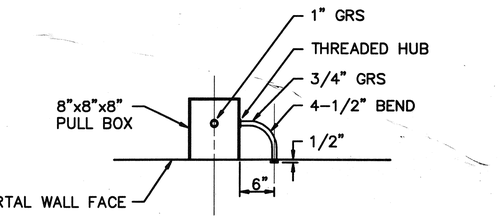
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	401	424



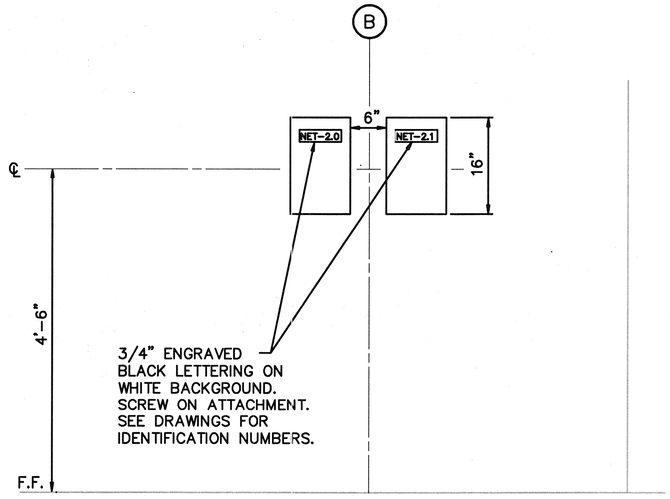
DETAIL 1
SCALE: 1"=1'-0" TM7|TM9



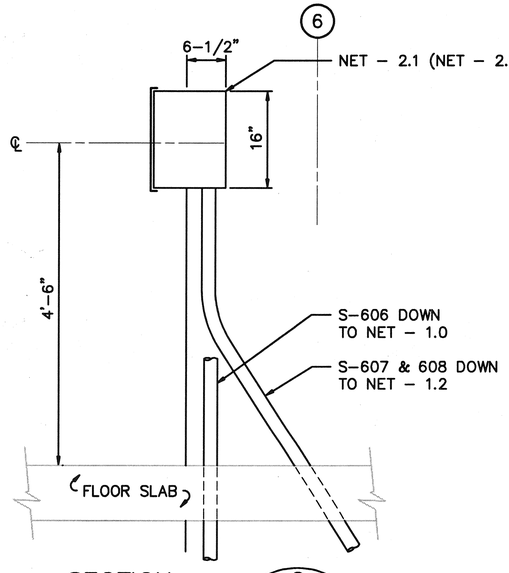
SECTION 2
SCALE: 1"=1'-0" TM3|TM9



SECTION A
NTS



SECTION B
SCALE: 1"=1'-0"



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

GRAPHIC SCALE:
12" 0' 1' 2'
1" = 1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTION & DETAILS-2

HAIKU PORTAL BUILDING-IB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS SHOWN DATE: JAN. 1990

SHEET NO. TM9 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

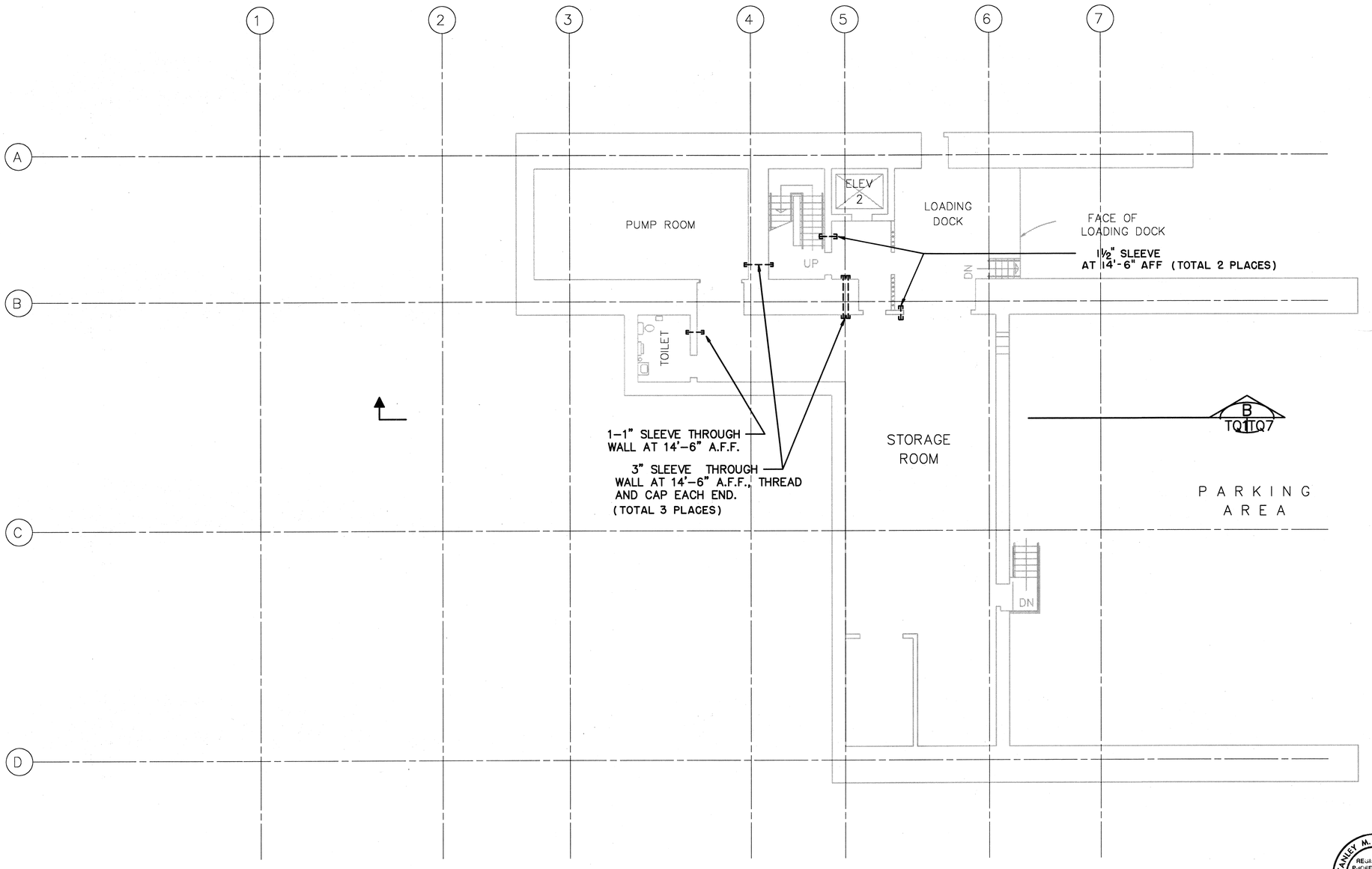
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M. O. T. Ching

ORIGINAL PLAN	SURVEY PLOTTED BY	CADD	11/9/89
	DRAWN BY		
	TRACED BY	W.WILLIAMS	6/26/89
NOTEBOOK	DESIGNED BY		
	QUANTITIES BY	H.SMITH	11/10/89
No.	CHECKED BY		

H3SC-TM9-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	402	424



GRAPHIC SCALE:

8' 4' 0' 8' 16'

1/8" = 1'-0"

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
4/26/90	ADDED 2-1½" SLEEVES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL A PLAN

HAIKU PORTAL BUILDING-OB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TQ1 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

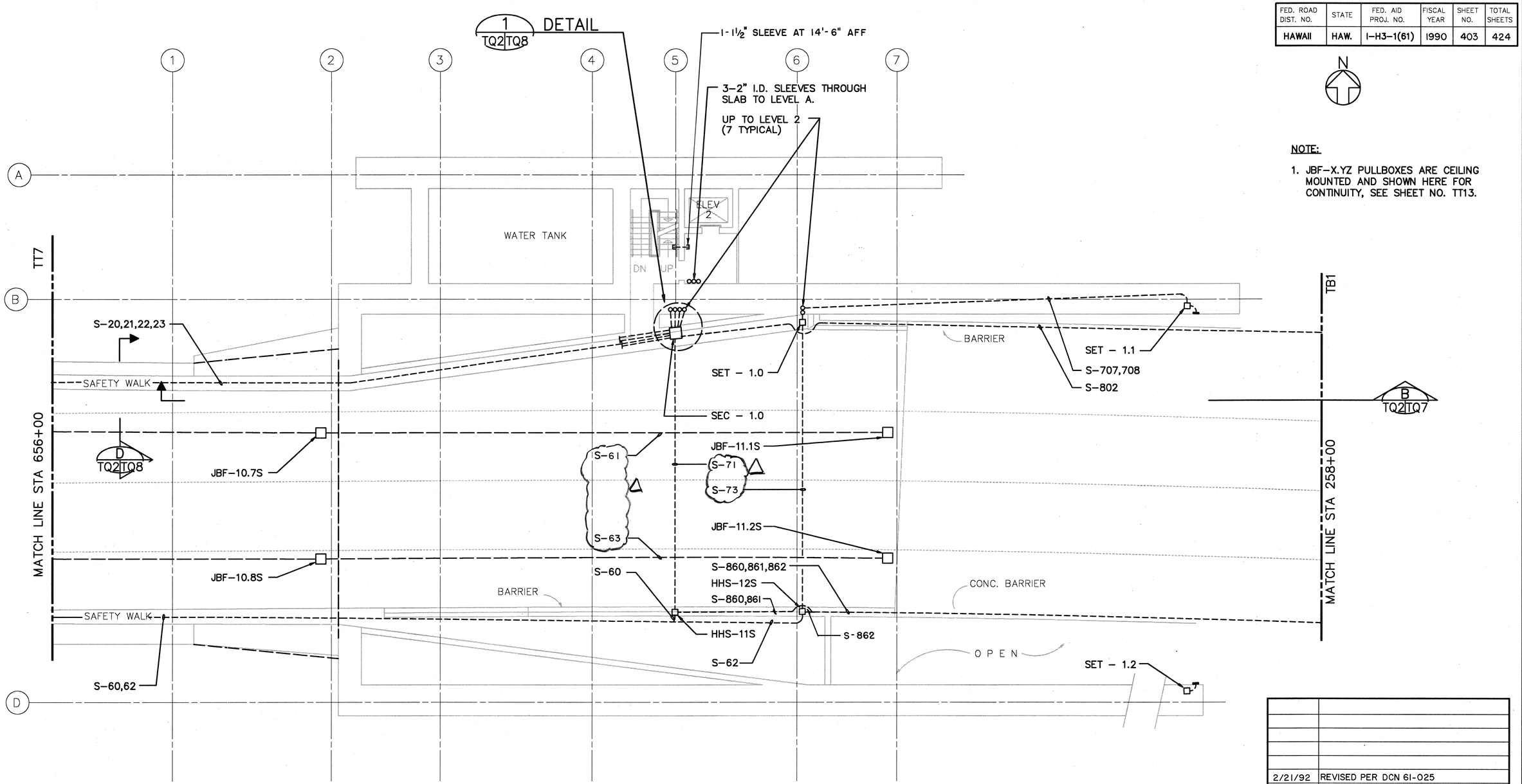
Stanley M.O.T. Ching

ADD. 402

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
NOTEBOOK	TRACED BY	
	DESIGNED BY W.WILLIAMS	5/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

H3SC-TQ1-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	403	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY CADD	11/9/88
	DRAWN BY	
	TRACED BY W.WILLIAMS	6/26/89
NOTEBOOK	DESIGNED BY	
	QUANTITIES BY	11/10/88
No.	CHECKED BY H.SMITH	

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

DATE	REVISION
2/21/92	REVISED PER DCN 61-025
4/26/90	ADDED 1-1½" SLEEVE AND S-861 & S-862

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

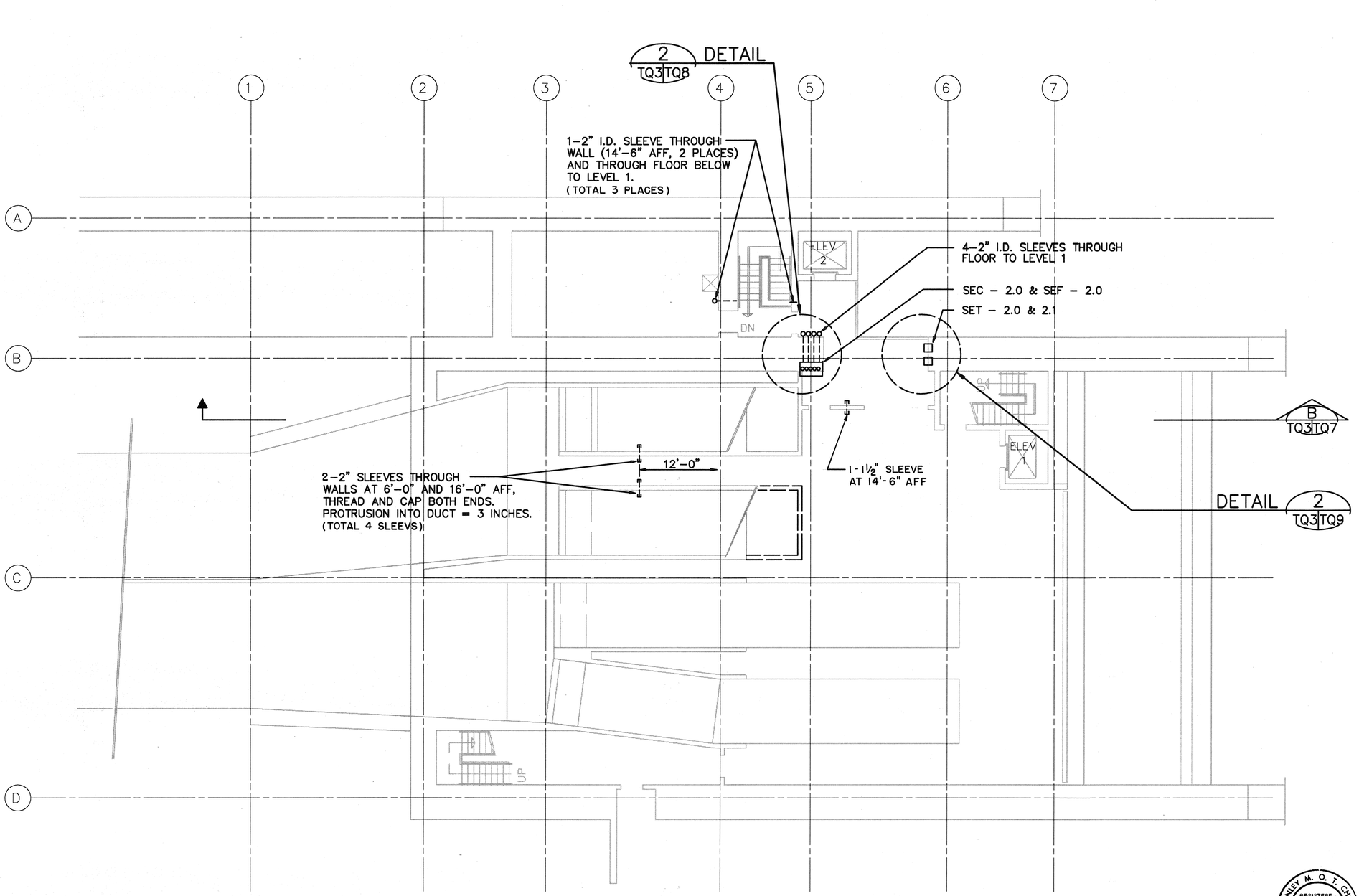
SYSTEMS CONDUIT LEVEL 1 PLAN
HAIKU PORTAL BUILDING-OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1/8" = 1'-0" DATE: JAN. 1990
SHEET NO. TQ2 OF 9 SHEETS

H3SC-TQ2-H3-C2 -12-12-89

ADD. 403

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	404	424



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

ORIGINAL PLAN		
	SURVEY PLOTTED BY	DATE 11/9/89
	DRAWN BY CADD	
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

DATE	REVISION
4/26/90	ADDED 1-1½" SLEEVE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 2 PLAN

HAIKU PORTAL BUILDING–OB

INTERSTATE ROUTE H–3

F.A.I. PROJ. NO. I–H3–1(61)

SCALE: 1/8" = 1'–0" DATE: JAN. 1990

SHEET NO. TQ3 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6512-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

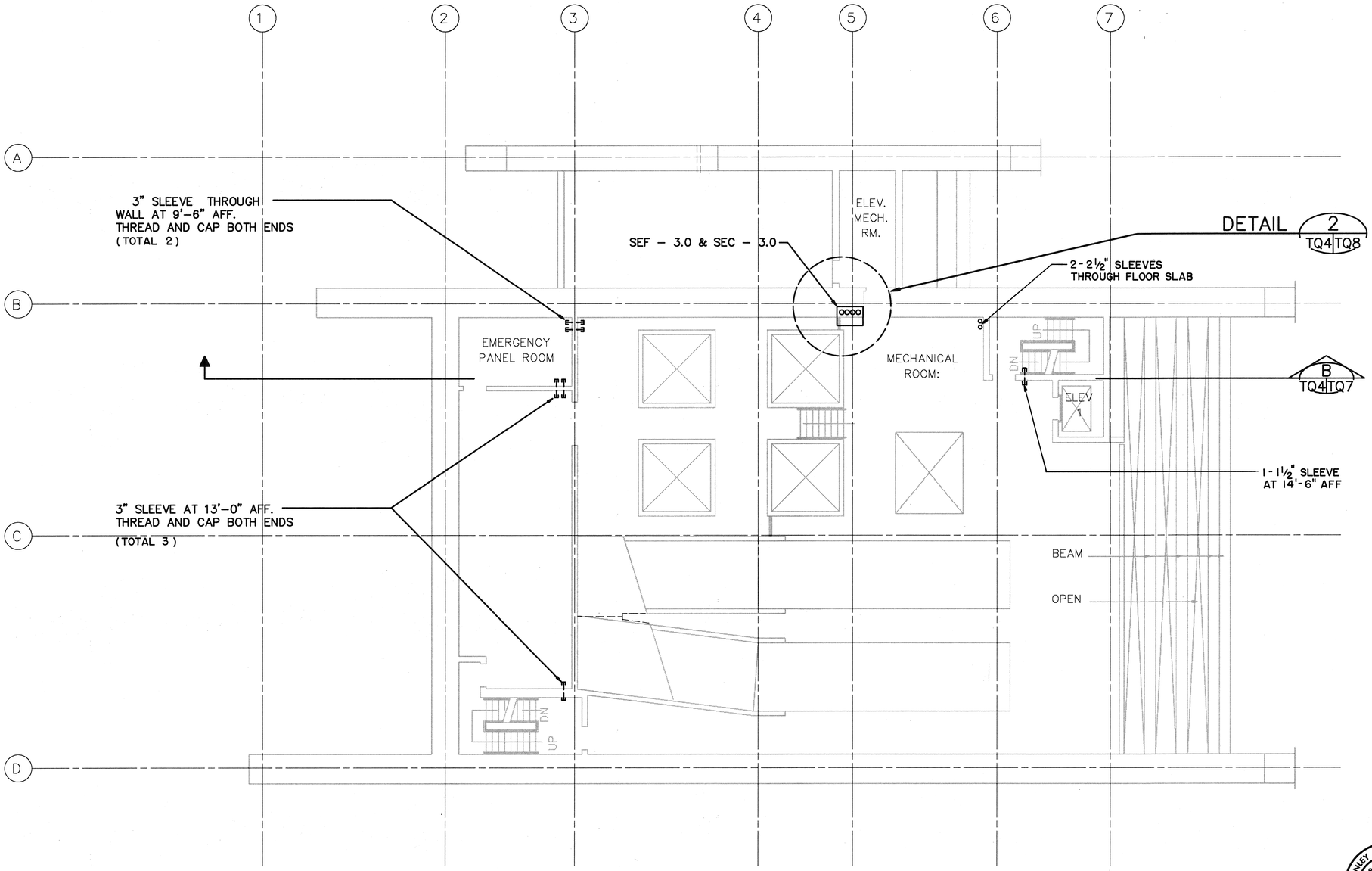
Stanley M.O.T. Ching

H3SC–TQ3–H3–C2 –12–12–89

ADD. 404

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	405	424

N



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

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
	DESIGNED BY W.WILLIAMS	6/26/89
NOTEBOOK	QUANTITIES BY	
	CHECKED BY H.SMITH	11/10/89
No.		

DATE	REVISION
4/26/90	ADDED 2-2½" SLEEVES THROUGH FL. SLAB AND 1-1½" SLEEVE 14'-6" AFF

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 3 PLAN

HAIKU PORTAL BUILDING-OB

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TQ4 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

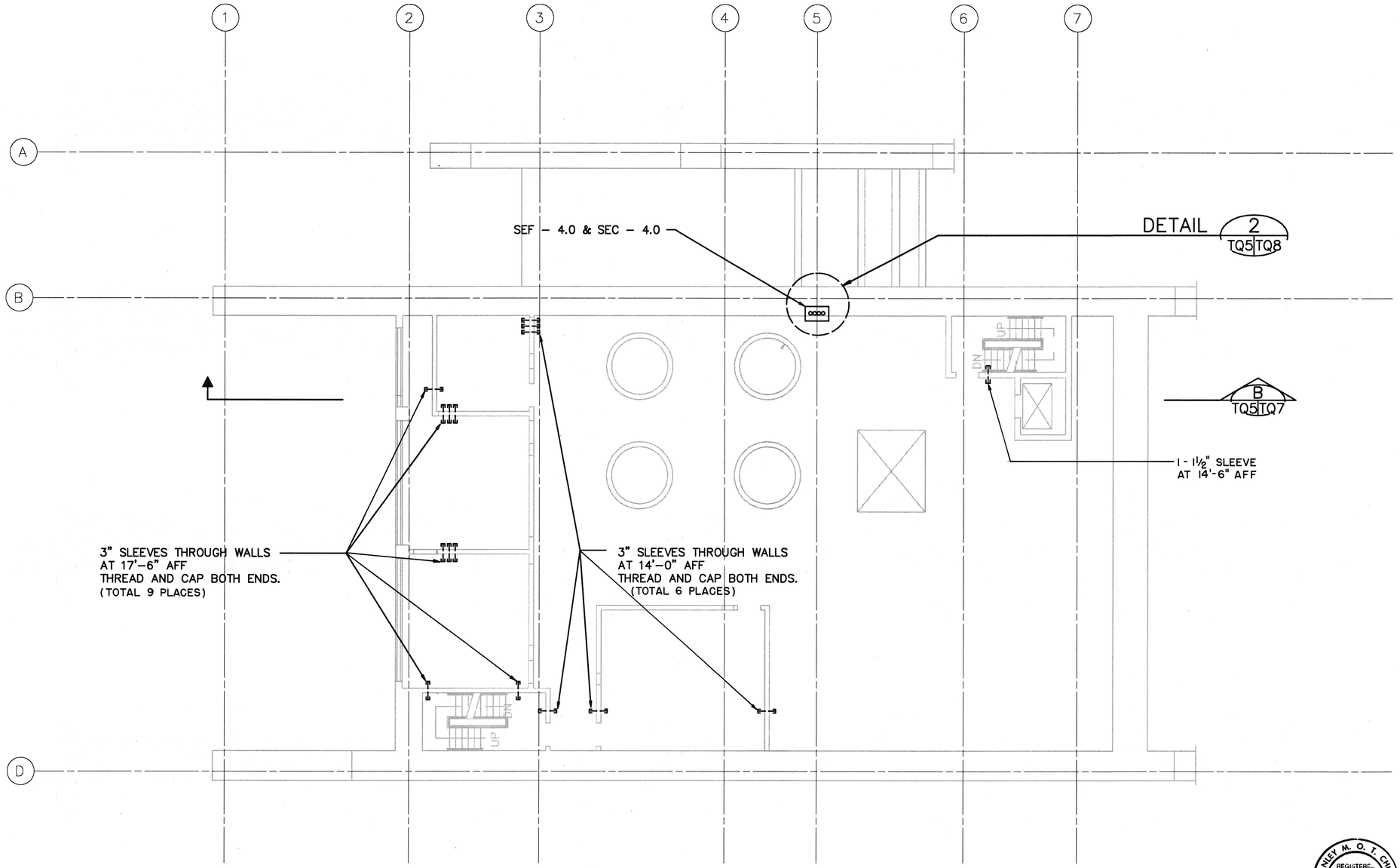
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

H3SC-TQ4-H3-C2 -12-12-89

ADD. 405

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	406	424



GRAPHIC SCALE:
8' 4' 0' 8' 16'
1/8" = 1'–0"

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY: CARD	11/9/89
	DRAWN BY:	
	TRACED BY: W.WILLIAMS	5/26/89
NOTEBOOK	DESIGNED BY:	
No.	QUANTITIES BY:	
	CHECKED BY: H.SMITH	11/10/89

DATE	REVISION
4/26/90	ADDED 1-1½" SLEEVE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT LEVEL 4 PLAN

HAIKU PORTAL BUILDING–OB

INTERSTATE ROUTE H–3

F.A.I. PROJ. NO. I–H3–1(61)

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

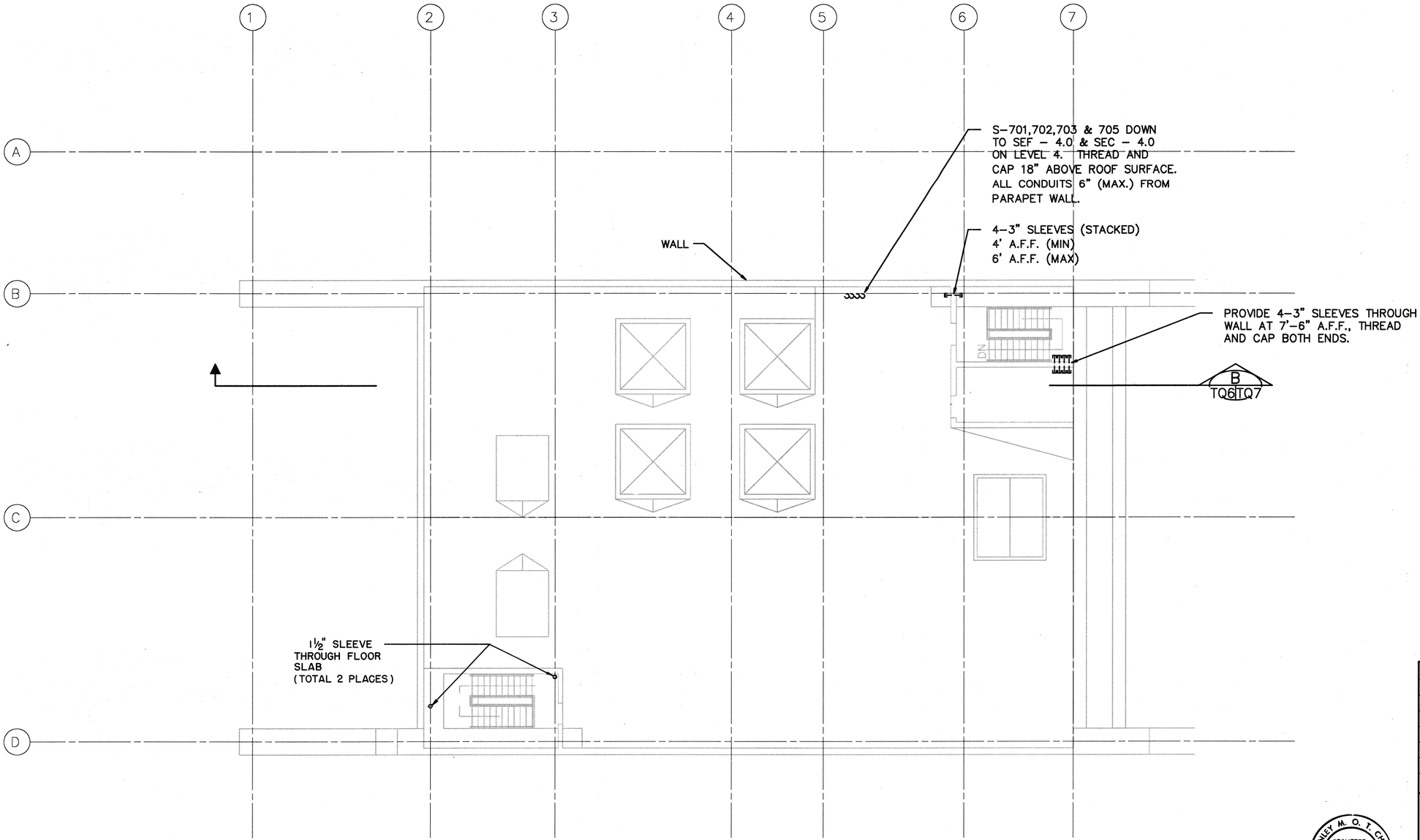
SCALE: 1/8" = 1'–0" DATE: JAN. 1990

SHEET NO. TQ5 OF 9 SHEETS

H3SC–TQ5–H3–C2 –12–12–89

ADD. 406

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	407	424



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

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CARD	11/9/88
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/88

DATE	REVISION
4/26/90	ADDED 2-1½" SLEEVES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT ROOF PLAN

HAIKU PORTAL BUILDING-OB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

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

SHEET NO. TQ6 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

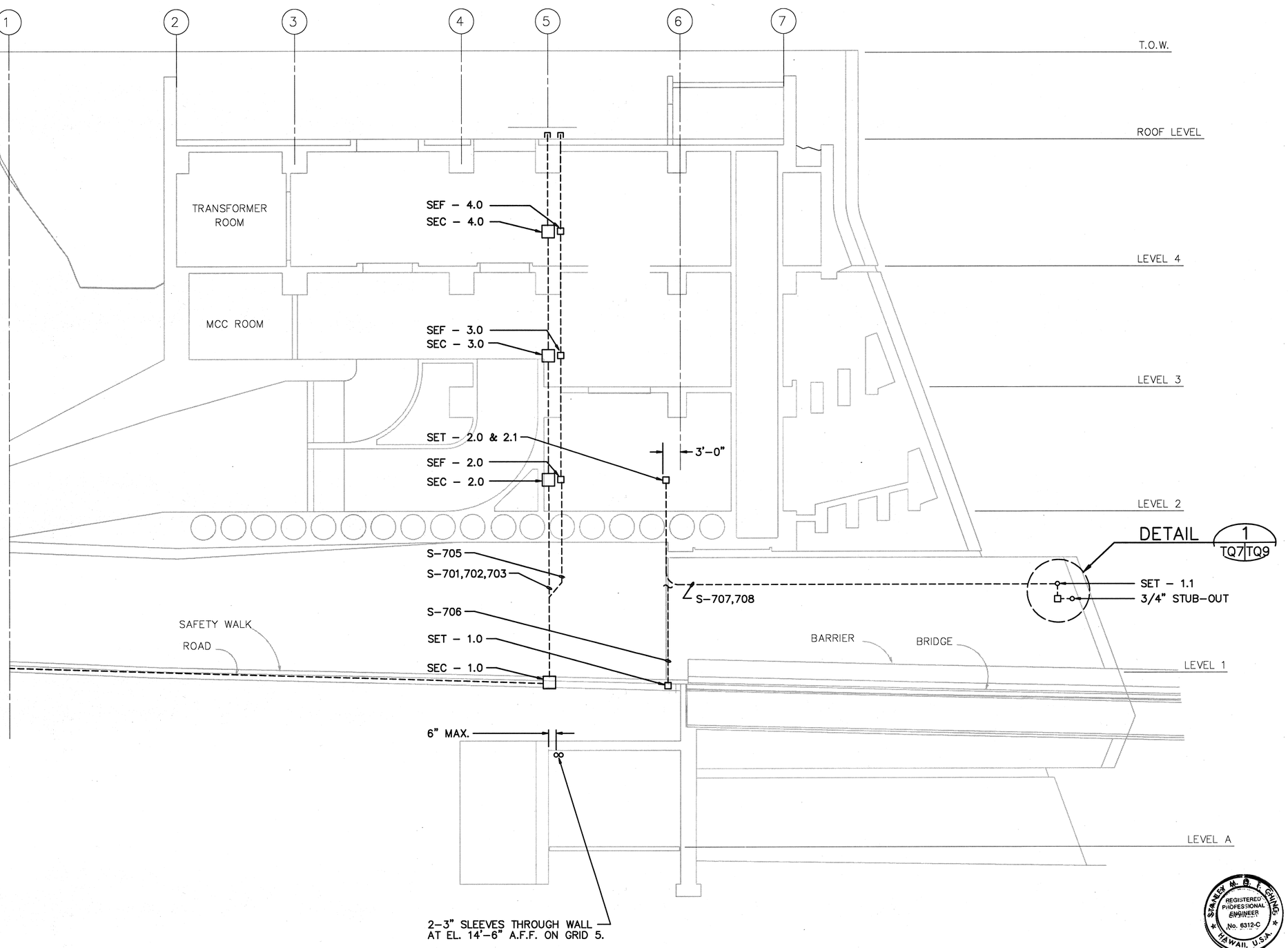
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

H3SC-TQ6-H3-C2 -12-12-89

ADD. 407

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	408	424



GRAPHIC SCALE:
8' 4' 0' 8' 16'
1/8" = 1'–0"

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY C.KOO	11/8/89
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	5/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Chang

STANLEY M.O.T. CHANG REGISTERED PROFESSIONAL ENGINEER No. 6312-C HAWAII, U.S.A.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTION B

HAIKU PORTAL BUILDING–OB

INTERSTATE ROUTE H–3

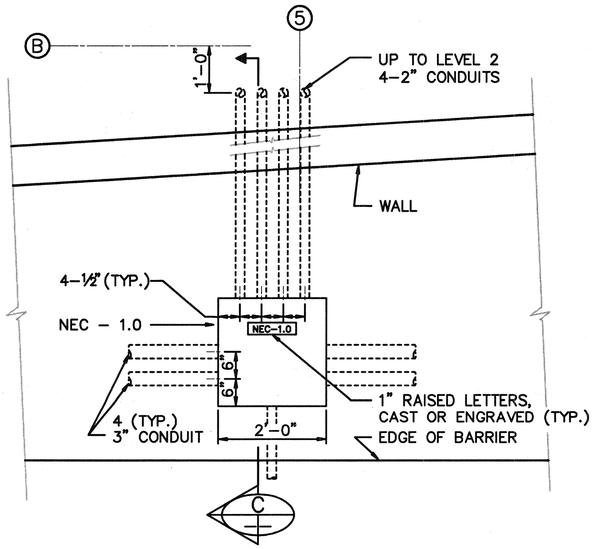
F.A.I. PROJ. NO. I–H3–1(61)

SCALE: 1/8" = 1'–0" DATE: JAN. 1990

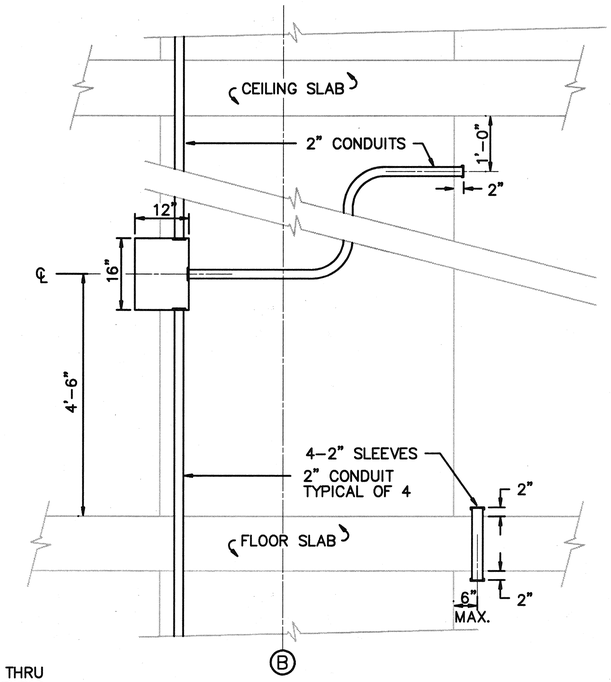
SHEET NO. TQ7 OF 9 SHEETS

H3SC–TQ7–H3–C2 –12–12–89

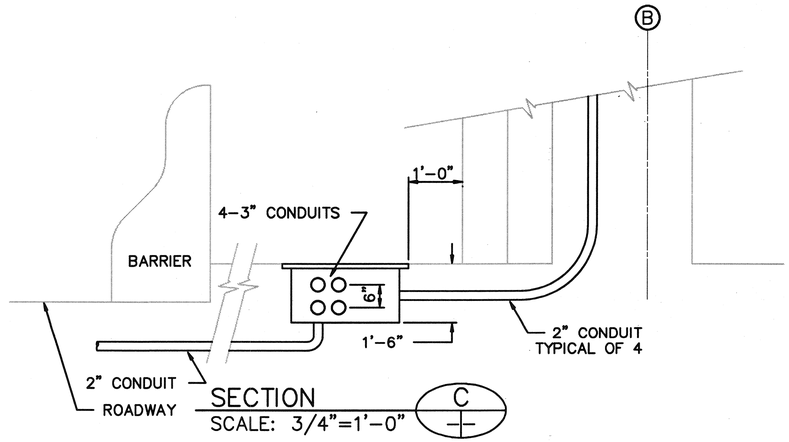
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	409	424



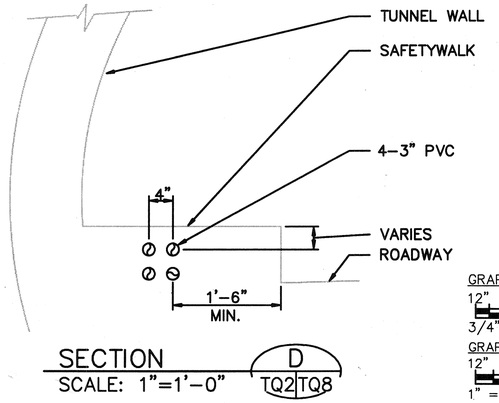
DETAIL 1
SCALE: 3/4"=1'-0" TQ2|TQ8



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



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



SECTION D
SCALE: 1"=1'-0" TQ2|TQ8

GRAPHIC SCALE:
12" 0' 1" 2' 3'
3/4" = 1'-0"

GRAPHIC SCALE:
12" 0' 1' 2'
1" = 1'-0"

DETAIL 2
SCALE: 1"=1'-0" TQ3,TQ4,TQ5|TQ8

SECTION B
SCALE: 1"=1'-0"

DATE	REVISION
4/26/90	REVISED DETAIL 2

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS & DETAILS-1

HAIKU PORTAL BUILDING-OB

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS SHOWN DATE: JAN. 1990

SHEET NO. TQ8 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

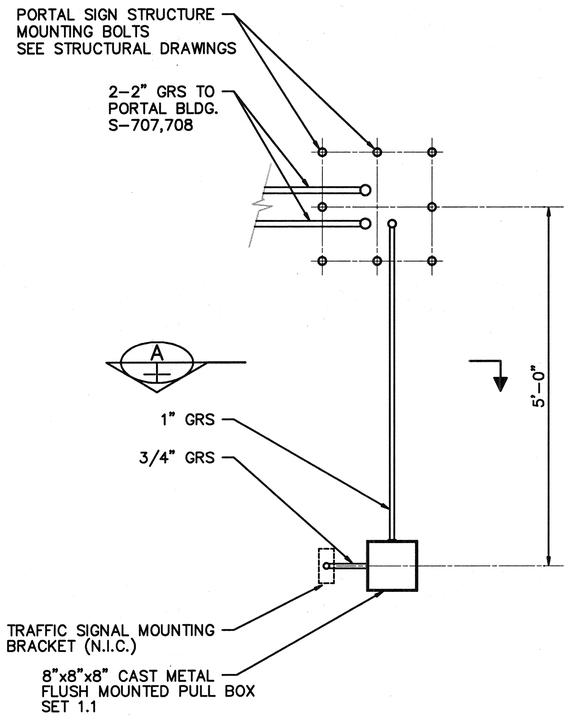
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/88
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/88

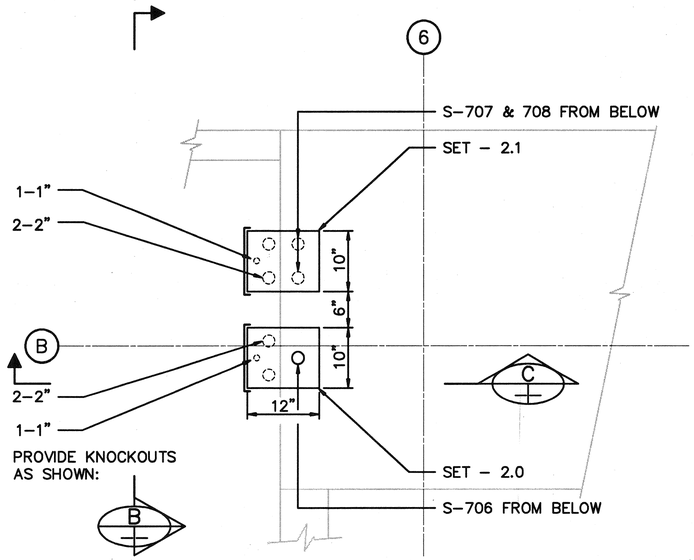
H3SC-TQ8-H3-C2 -12-12-89

ADD. 409

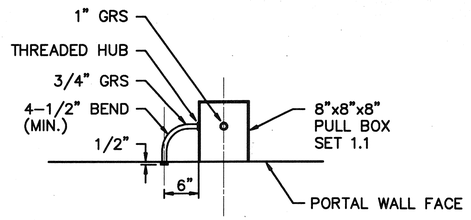
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	410	424



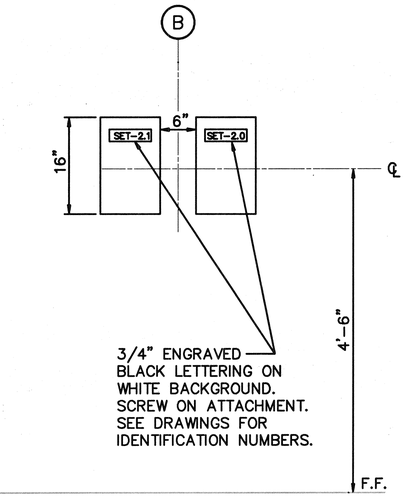
DETAIL 1 — SCALE: 1"=1'-0" — TQ7|TQ9



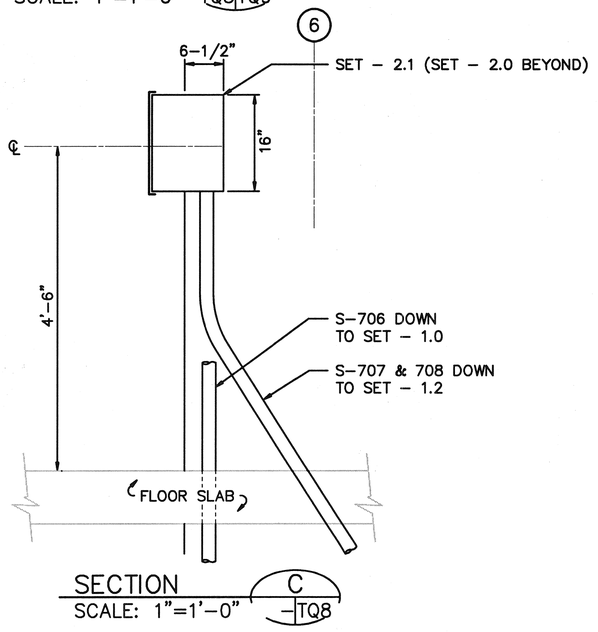
DETAIL 2 — SCALE: 1"=1'-0" — TQ3|TQ9



SECTION A — NTS



SECTION B — SCALE: 1"=1'-0" — TQ8



SECTION C — SCALE: 1"=1'-0" — TQ8

GRAPHIC SCALE:
12" 0' 1' 2'
1" = 1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS & DETAILS-2

HAIKU PORTAL BUILDING-OB
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

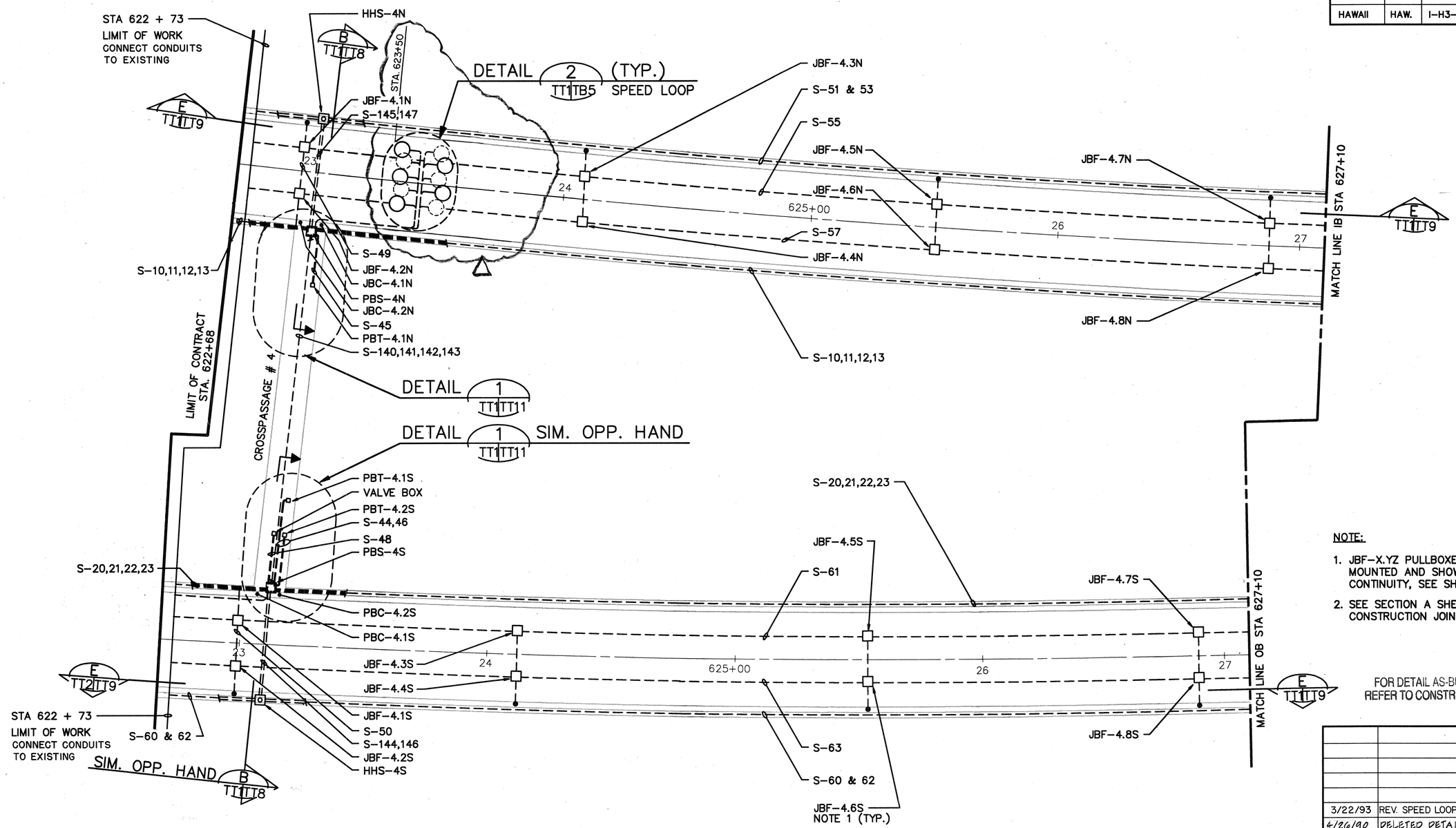
SCALE: AS SHOWN DATE: JAN. 1990
SHEET NO. TQ9 OF 9 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
SURVEY PLOTTED BY		
DRAWN BY	CARD	11/29/89
TRACED BY		
DESIGNED BY	W.WILLIAMS	5/26/89
QUANTITIES BY		
CHECKED BY	H.SMITH	11/30/89
NOTEBOOK		
No.		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	411	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.
2. SEE SECTION A SHEET NO. G-21 FOR CONSTRUCTION JOINT DETAILS.

FOR DETAIL AS-BUILT INFORMATION
REFER TO CONSTRUCTION SUBMITTALS

DATE	REVISION
3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037
4/26/90	DELETED DETAIL 1 OF TT1 | TB3

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 622+68 TO 627+10
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990
SHEET NO. TT1 OF 14 SHEETS

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

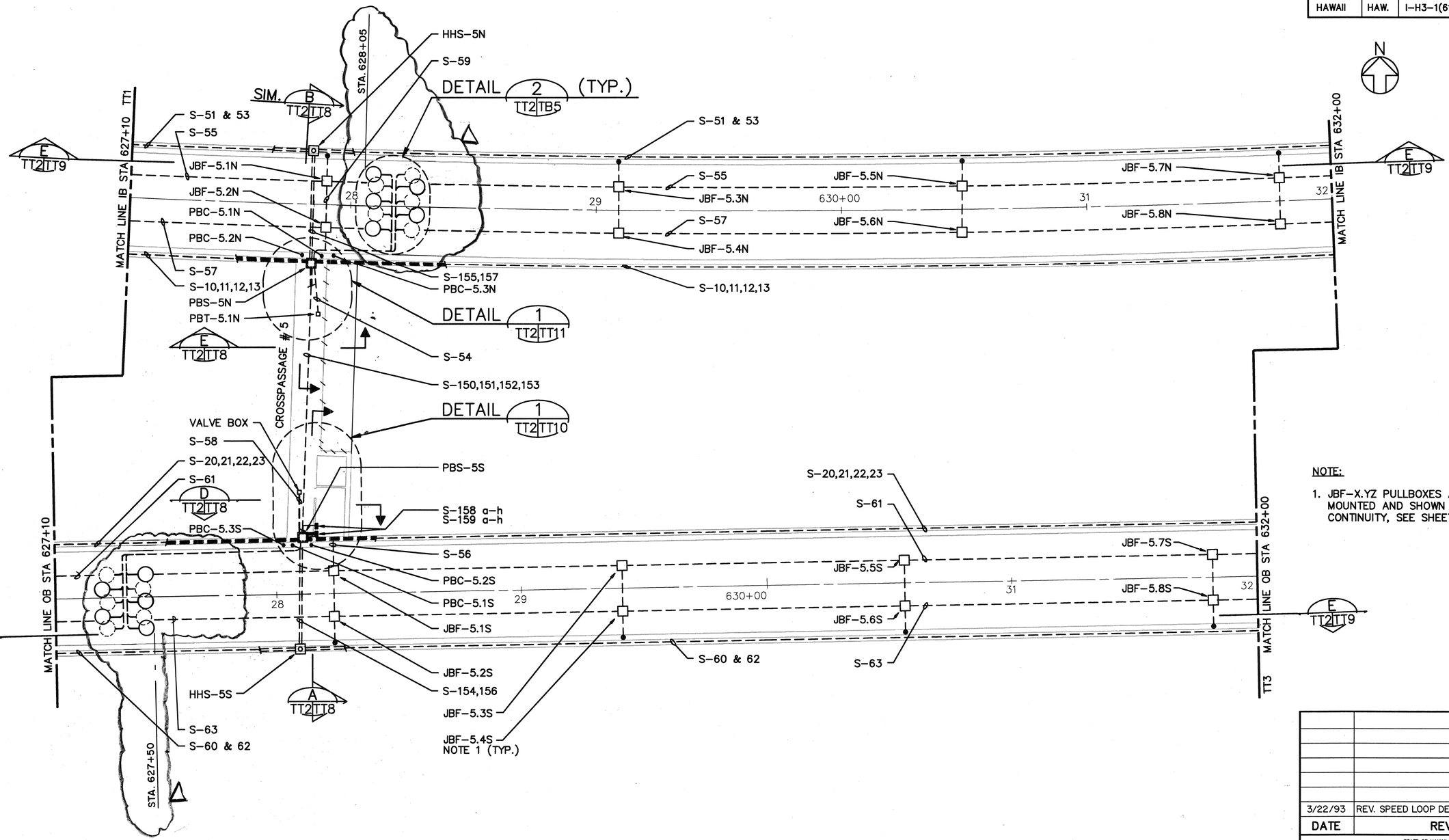
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

ORIGINAL PLAN	SURVEY PLOTTED BY	CADD	11/9/88
	DRAWN BY		
	TRACED BY		
NOTEBOOK	DESIGNED BY	M.WILLIAMS	6/28/88
	QUANTITIES BY		
No.	CHECKED BY	H.SMITH	11/10/88

H3SC-TT1-H3-C2 -12-12-89

ADD. 411

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	412	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

DATE	REVISION
3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 627+10 TO 632+00
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

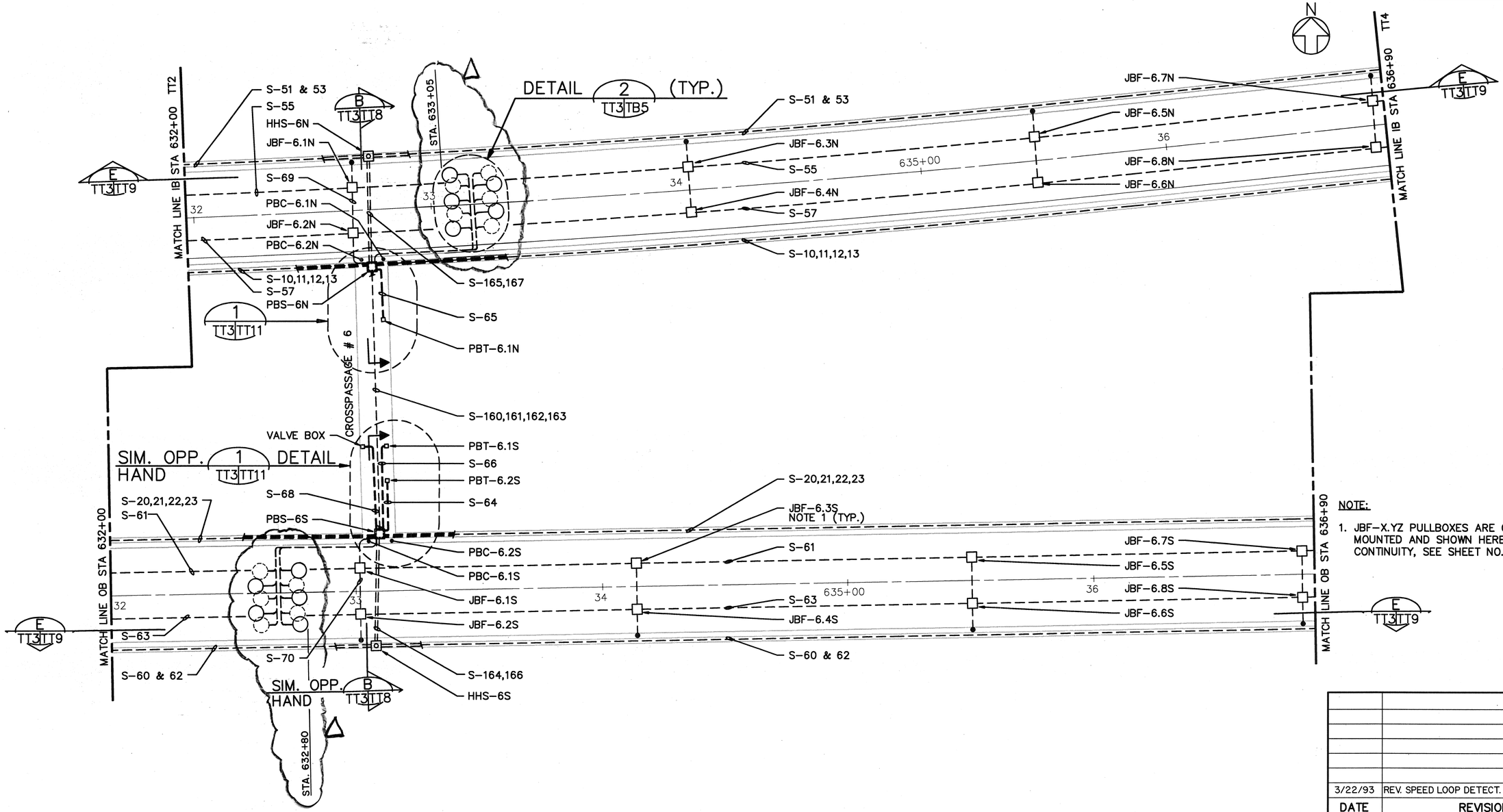
SCALE: 1" = 20'-0" DATE: JAN. 1990
SHEET NO. TT2 OF 14 SHEETS

ORIGINAL PLAN
NOTEBOOK
No.
SURVEY PLOTTED BY: DATE 11/9/89
DRAWN BY: CADD
TRACED BY:
DESIGNED BY: W.WILLIAMS 6/26/89
QUANTITIES BY:
CHECKED BY: H.SMITH 11/10/89

H3SC-TT2-H3-C2 -12-12-89

412

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	413	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 632+00 TO 636+90
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990
SHEET NO. TT3 OF 14 SHEETS

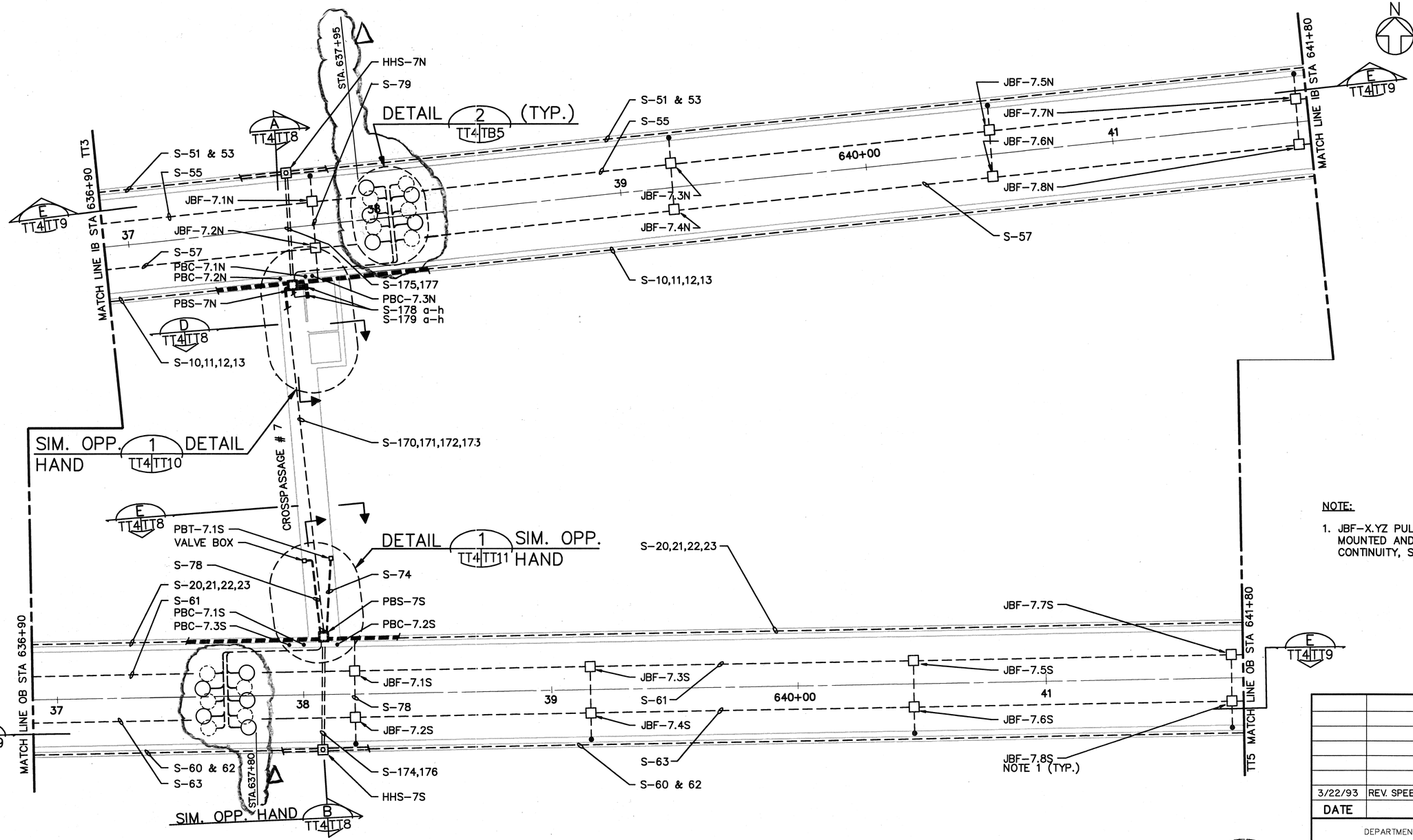
STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY C.KIDO	11/8/88
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/26/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/88

H3SC-TT3-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	414	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 636+90 TO 641+80
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990

SHEET NO. TT4 OF 14 SHEETS

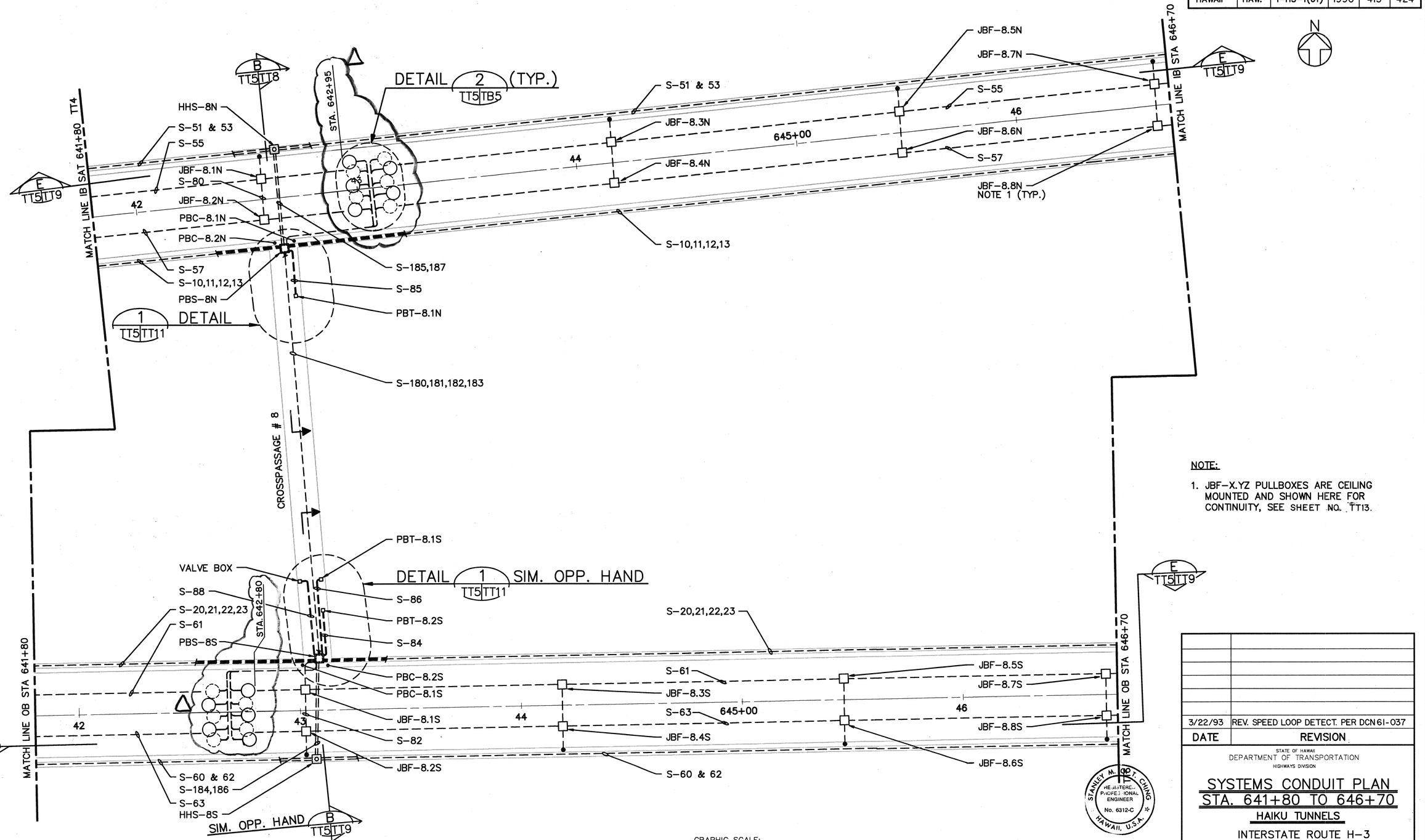
STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 11/29/89
	DRAWN BY CADD	11/29/89
	DESIGNED BY W.WILLIAMS	6/26/89
NOTEBOOK	QUANTITIES BY H.SMITH	11/10/88
No.	CHECKED BY H.SMITH	

H3SC-TT4-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	415	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13.

GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

STANLEY M.O.T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY CADD	11/9/89
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	5/26/89
	QUANTITIES BY H.SMITH	
No.	CHECKED BY	11/10/89

3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

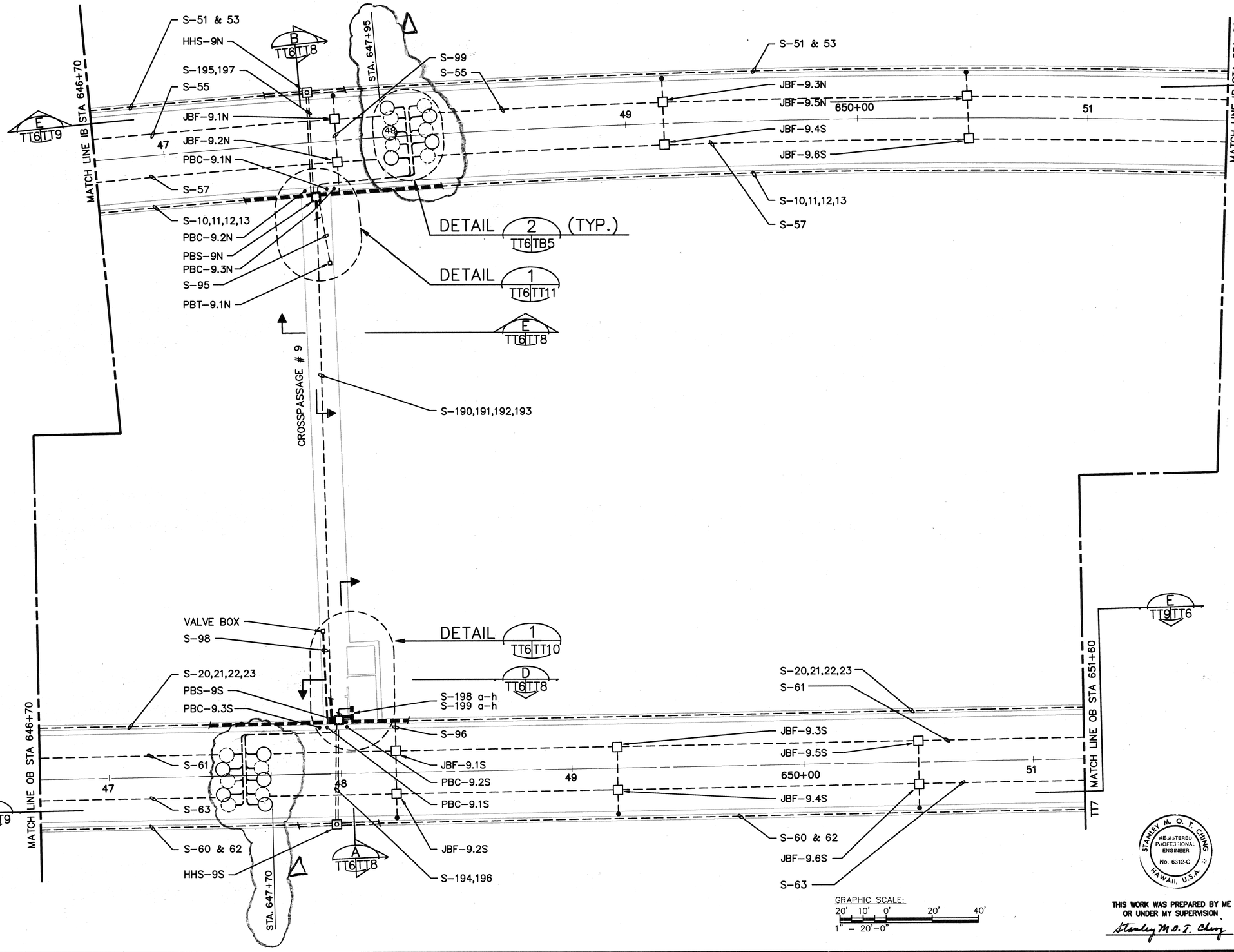
SYSTEMS CONDUIT PLAN
STA. 641+80 TO 646+70
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990

SHEET NO. TT5 OF 14 SHEETS

H3SC-TT5-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	416	424



NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO.TT13

3/22/93	REV. SPEED LOOP DETECT. PER DCN 61-037
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 646+70 TO 651+60
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990

SHEET NO. TT6 OF 14 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

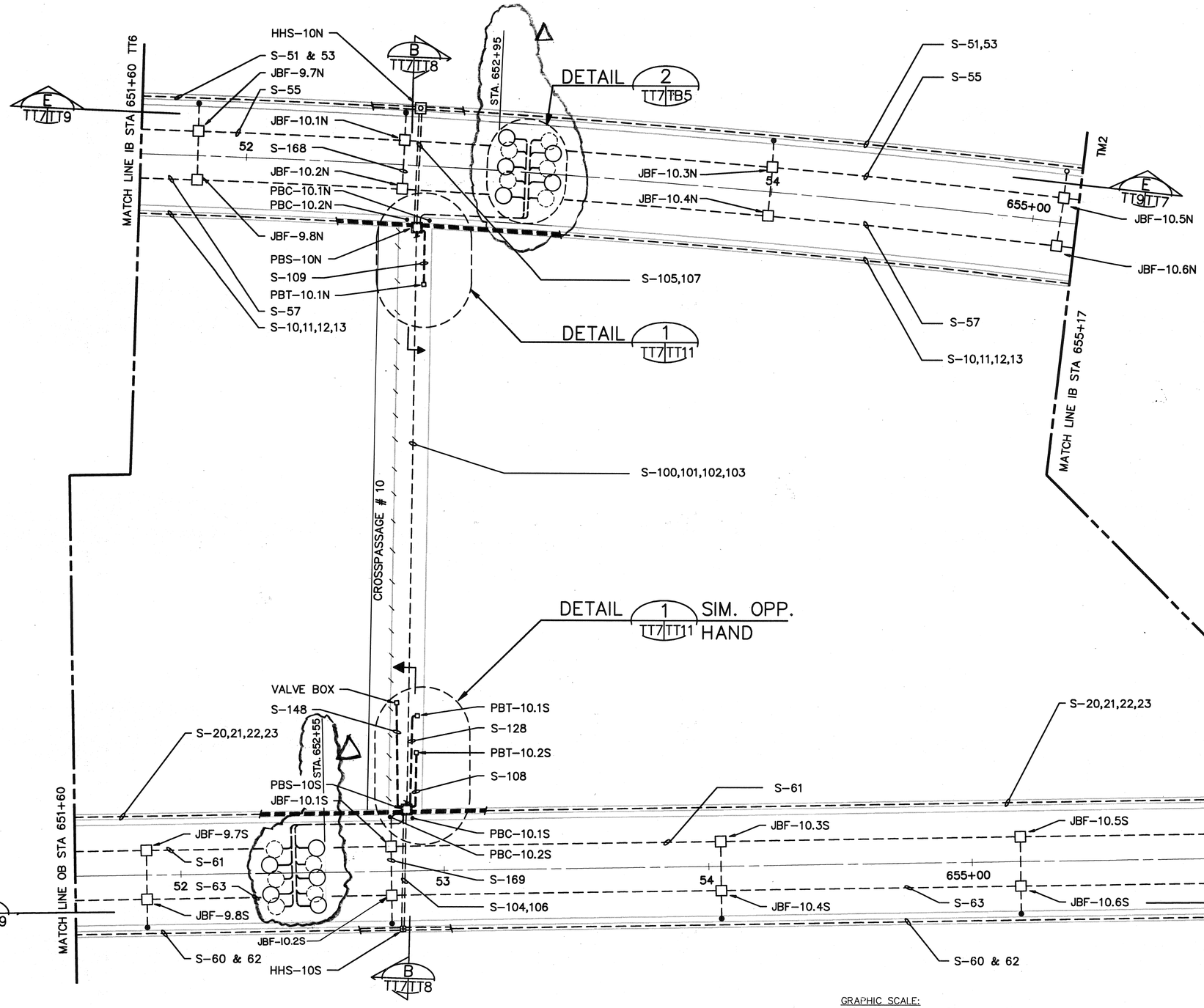
ORIGINAL PLAN

		DATE
SURVEY PLOTTED BY		
DRAWN BY	CADD	11/9/89
TRACED BY		
DESIGNED BY	W.WILLIAMS	6/26/89
QUANTITIES BY		
CHECKED BY	H.SMITH	11/10/89

NOTEBOOK
No.

H3SC-TT6-H3-C2 -12-12-89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	417	424



GRAPHIC SCALE:
20' 10' 0' 20' 40'
1" = 20'-0"

NOTE:

1. JBF-X.YZ PULLBOXES ARE CEILING MOUNTED AND SHOWN HERE FOR CONTINUITY, SEE SHEET NO. TT13

DATE	REVISION
3/22/93	REV. SPEED LOOP DETECT. PER DCN61-037

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT PLAN
STA. 651+60 TO PORTAL
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: 1" = 20'-0" DATE: JAN. 1990
SHEET NO. TT7 OF 14 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

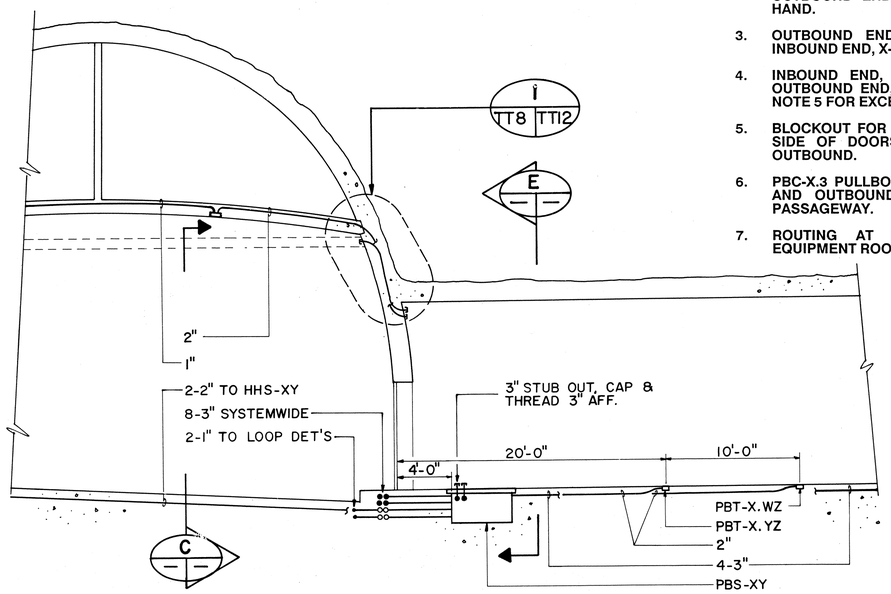
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY C.KIDO	11/29/89
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	5/26/89
No.	QUANTITIES BY	
	CHECKED BY H.SMITH	11/30/89

H3SC-TT7-H3-C2 -12-12-89

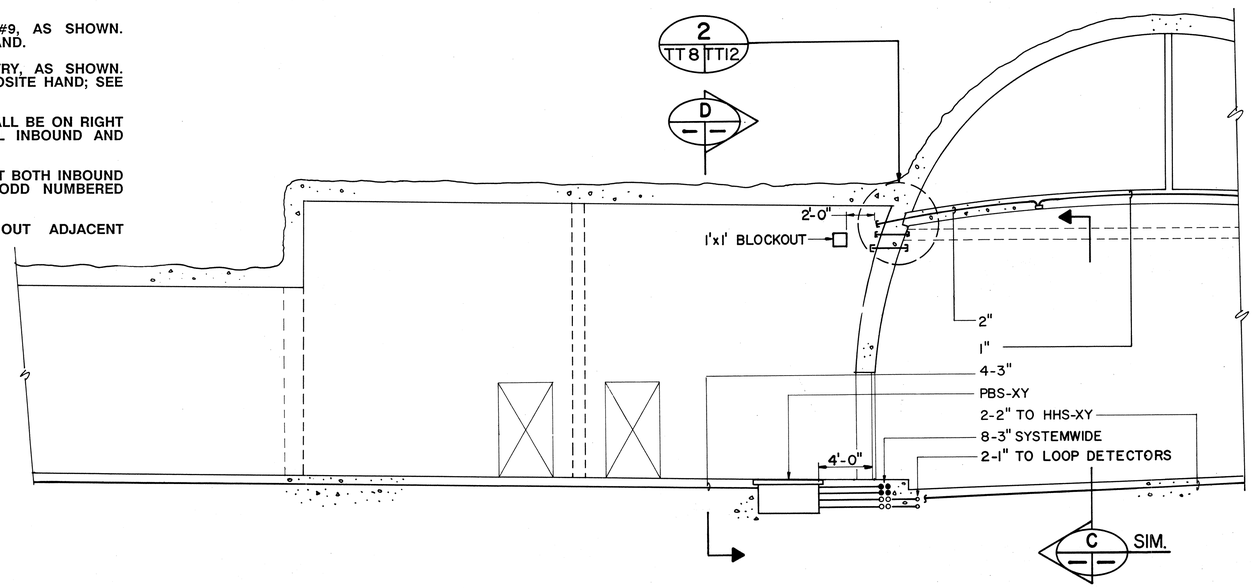
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(61)	1990	418	424

NOTES:

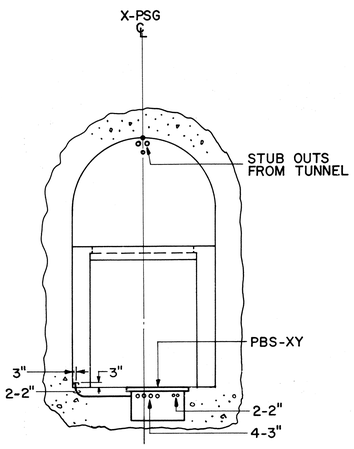
1. PULLBOX IDENTIFICATION LETTERS "W, X, Y & Z" ARE VARIABLES. SEE PLAN DRAWINGS FOR PULLBOX IDENTIFICATION.
2. INBOUND END, X-PSG #4, 6, 8 AND 10, AS SHOWN. OUTBOUND END, X-PSG #4, 6, 8 AND 10, OPPOSITE HAND. INBOUND END, X-PSG #5 AND 9, SIMILAR. OUTBOUND END, X-PSG #7, SIMILAR AND OPPOSITE HAND.
3. OUTBOUND END, X-PSG #5 AND #9, AS SHOWN. INBOUND END, X-PSG #7, OPPOSITE HAND.
4. INBOUND END, TYPICAL X-PSG ENTRY, AS SHOWN. OUTBOUND END, X-PSG ENTRY, OPPOSITE HAND; SEE NOTE 5 FOR EXCEPTION.
5. BLOCKOUT FOR TRAFFIC SIGNAL SHALL BE ON RIGHT SIDE OF DOORS, TYPICAL FOR ALL INBOUND AND OUTBOUND.
6. PBC-X.3 PULLBOXES ARE LOCATED AT BOTH INBOUND AND OUTBOUND ENDS OF EACH ODD NUMBERED PASSAGEWAY.
7. ROUTING AT LOCATIONS WITH OUT ADJACENT EQUIPMENT ROOMS ONLY.



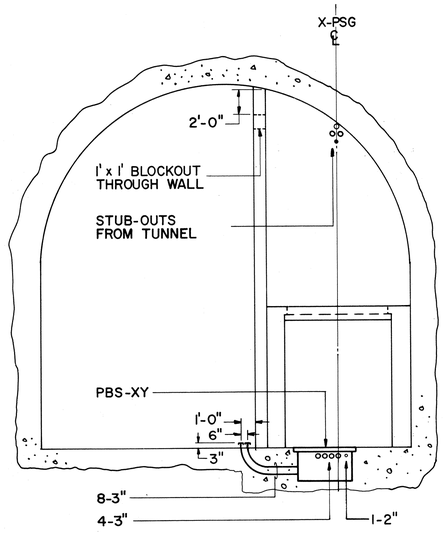
(NOTE 2) SECTION B (TT1-TT7 | TT8)
SCALE: 3/16"=1'-0"



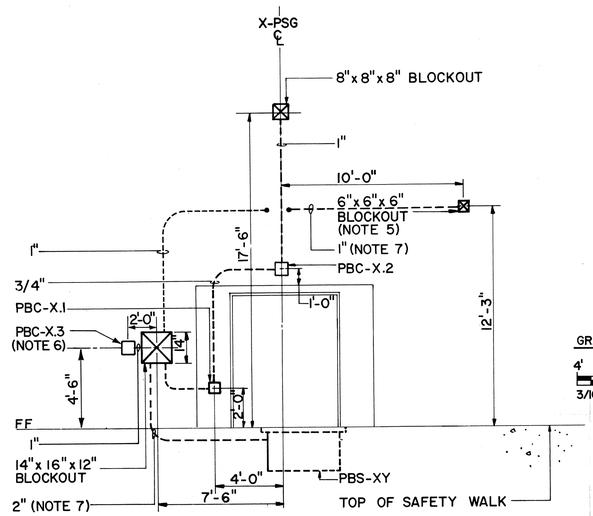
(NOTE 3) SECTION A (TT2-TT7 | TT8)
SCALE: 3/16"=1'-0"



SECTION E
SCALE: 3/16"=1'-0"



SECTION D
SCALE: 3/16"=1'-0"



(NOTE 4) SECTION C
SCALE: 3/16"=1'-0"

GRAPHIC SCALE
4' 0' 4' 8' 12'
3/16"=1'-0"

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS-1

HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS NOTED DATE: JAN. 1990
SHEET NO. TT8 OF 14 SHEETS

STANLEY M.O.T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

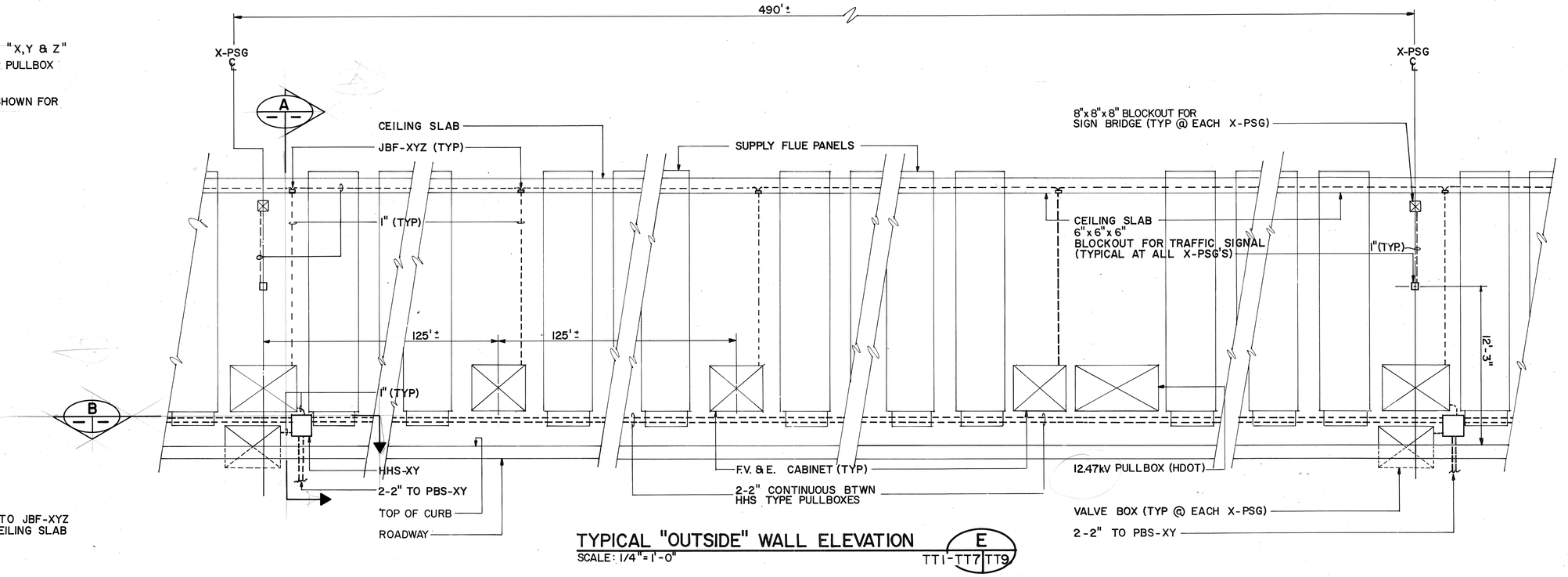
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

	DATE	NAME
ORIGINAL PLAN		
NOTE BOOK		
SURVEY PLOTTED BY	5/21/93	W.WILLIAMS
DRAWN BY		
TRACED BY		
DESIGNED BY	5/21/93	W.WILLIAMS
QUANTITIES BY		
CHECKED BY	5/21/93	H.SMITH
No.		

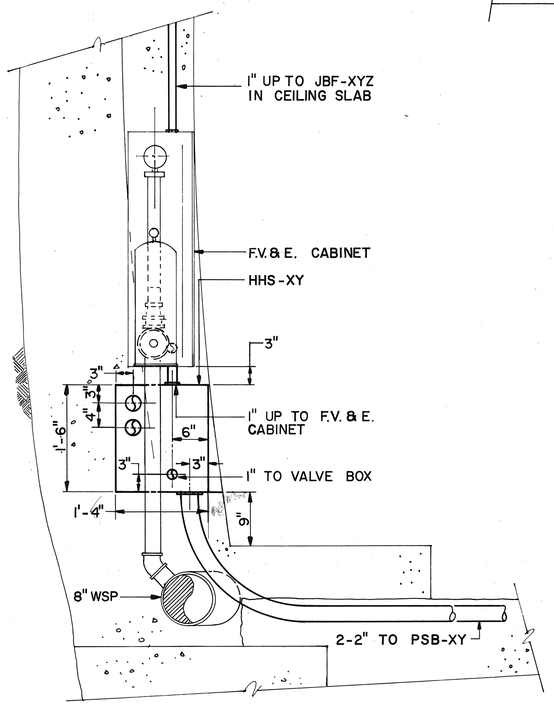
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	419	424

NOTES:

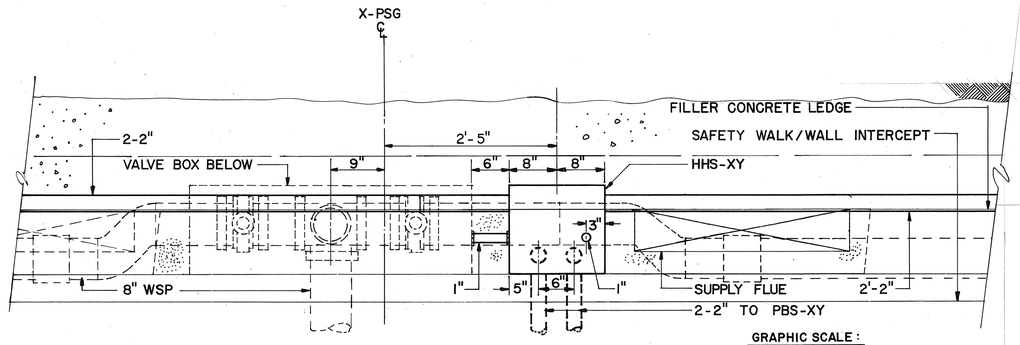
1. PULLBOX IDENTIFICATION LETTERS "X,Y & Z" ARE VARIABLES. SEE PLANS FOR PULLBOX IDENTIFICATION NUMBERS.
2. NOT ALL ELECTRICAL PULLBOXES SHOWN FOR CLARITY.



TYPICAL "OUTSIDE" WALL ELEVATION — E (TT1-TT7-TT9)
SCALE: 1/4"=1'-0"



SECTION — A
SCALE: 1"=1'-0"



SECTION — B
SCALE: 1"=1'-0"

GRAPHIC SCALE:
1' 6" 1' 2' 3'
1"=1'-0"
4' 2' 0' 4' 8'
1/4"=1'-0"

ORIGINAL PLAN		SURVEY PLOTTED BY		DATE 5/26/89
		DRAWN BY	W. WILLIAMS	"
NOTE BOOK		TRACED BY		5/26/89
		DESIGNED BY	W. WILLIAMS	"
No.		QUANTITIES BY		5/27/89
		CHECKED BY	H. SMITH	"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching

STANLEY M.O.T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

DATE	REVISION

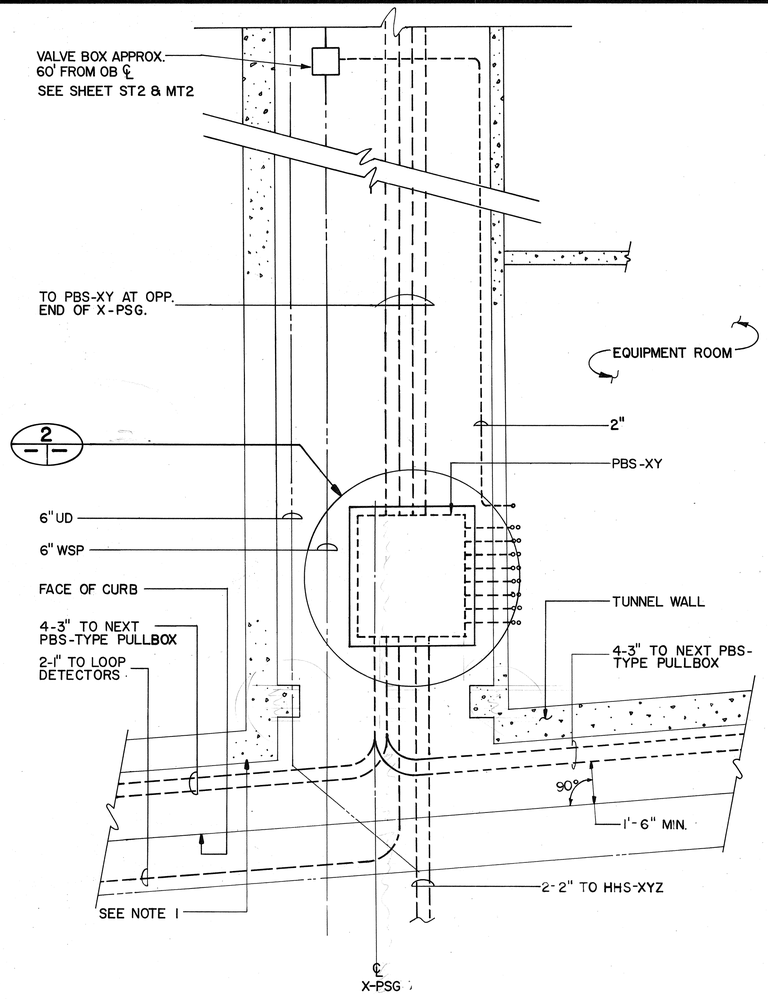
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SECTIONS-2

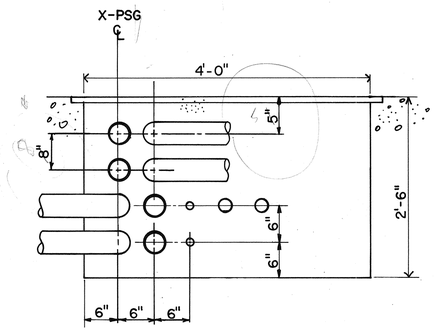
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

SCALE: AS NOTED DATE: JAN. 1990
SHEET NO. TT9 OF 14 SHEETS

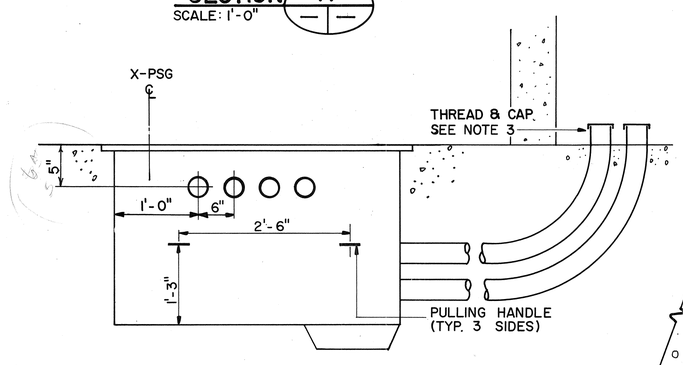
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (61)	1990	420	424



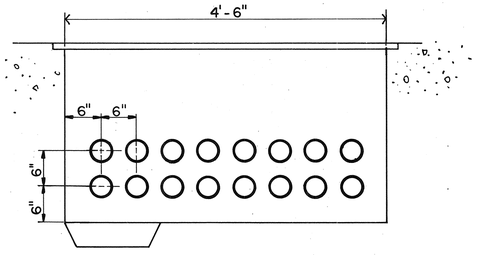
DETAIL 1
SCALE: 1/4"=1'-0" TT1-TT7 TT10



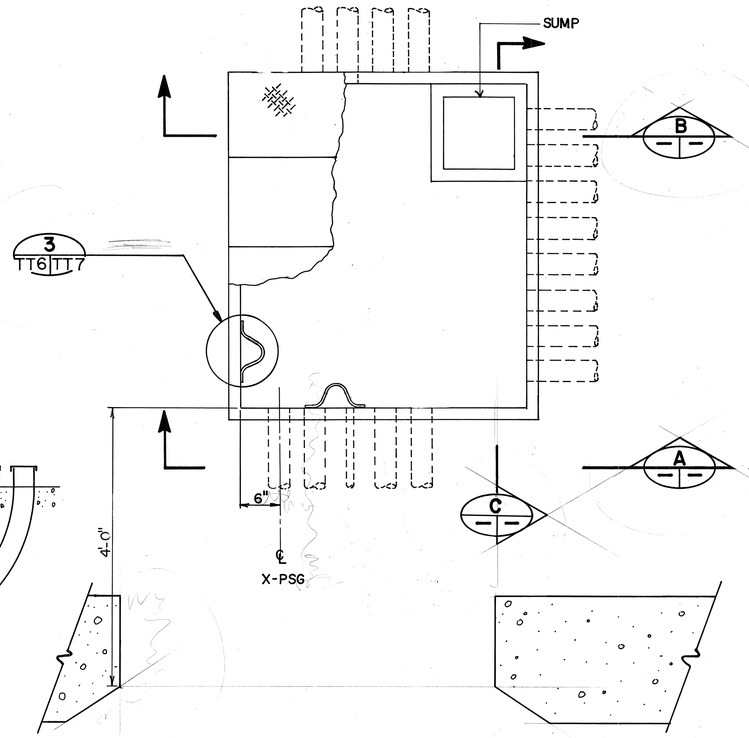
SECTION A
SCALE: 1'-0"



SECTION B
SCALE: 1"=1'-0"



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



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

NOTES:

1. SEE SECTION A/TT8 FOR LOCATIONS OF "PBC" PULLBOXES
2. SEE SHEET NO. ST 5 FOR PULL BOX CONSTRUCTION DETAILS
3. USE PVC COATED GRS OR OTHER APPROVED NON-CORROSIVE RIGID METAL CONDUIT
4. PULLBOX IDENTIFICATION LETTERS "X,Y & Z" ARE VARIABLES. SEE PLAN DRAWINGS FOR PULLBOX IDENTIFICATION.

GRAPHIC SCALE

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

1' 6" 0' 1' 2'
1"=1'-0"

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 6/27/89
	DRAWN BY W.WILLIAMS	" "
NOTE BOOK	TRACED BY W.WILLIAMS	5/26/89
	DESIGNED BY W.WILLIAMS	" "
No.	QUANTITIES BY	" "
	CHECKED BY H.SMITH	5/26/89

DATE	REVISION

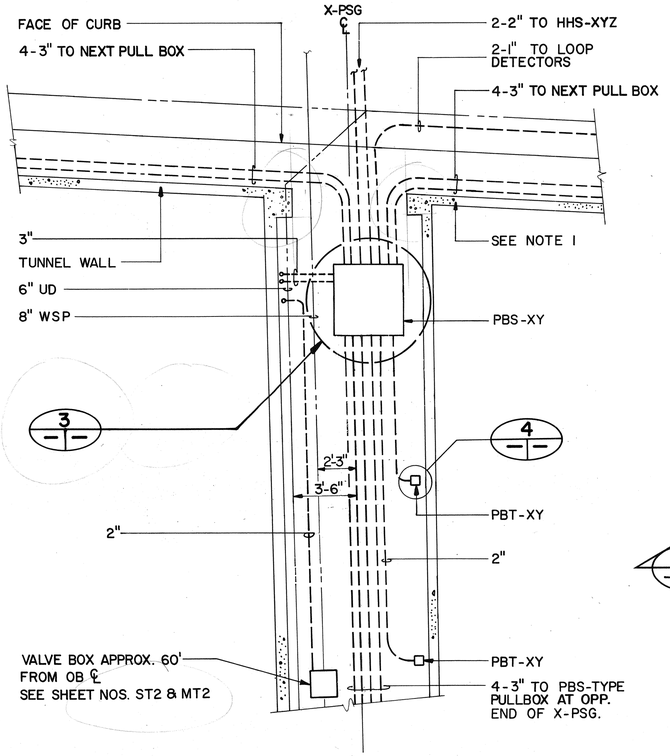
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT DETAILS-1

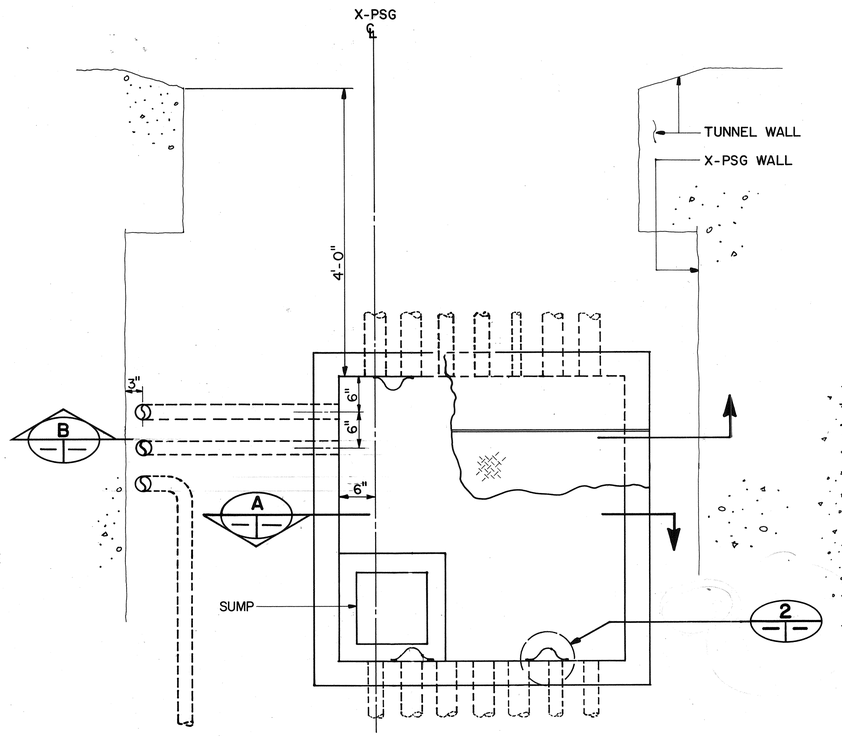
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1 (61)

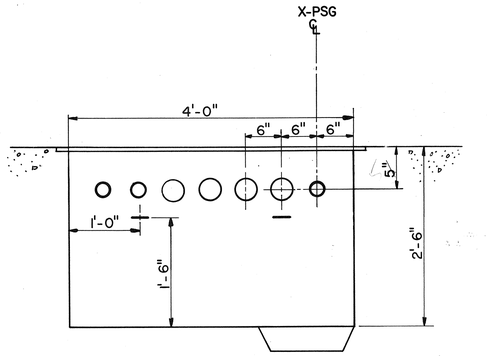
SCALE: AS NOTED DATE: JAN. 1990
SHEET NO. TT10 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	421	424

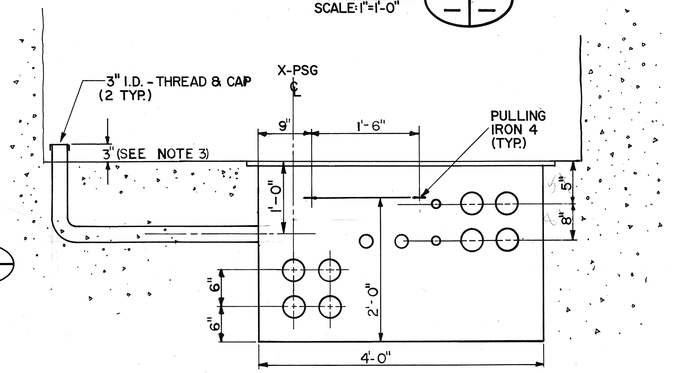


DETAIL 1
SCALE: 1/4"=1'-0" TT1-TT7 TT11

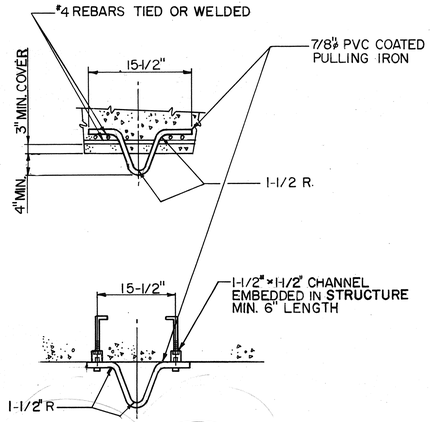




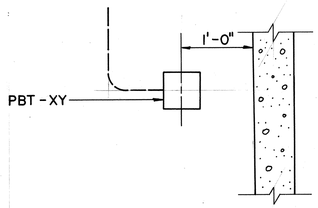
SECTION A
SCALE: 1"=1'-0"



SECTION B
SCALE: 1"=1'-0"



DETAIL 2
NTS



DETAIL 4
NTS

DETAIL 3
SCALE: 1"=1'-0"

NOTES:

1. SEE SECTION A/TT8 FOR LOCATIONS OF "PBC" PULLBOXES
2. SEE SHEET NO. ST 5 FOR PULL BOX CONSTRUCTION DETAILS
3. USE PVC COATED GRS OR OTHER APPROVED NON-CORROSIVE RIGID METAL CONDUIT
4. PULLBOX IDENTIFICATION LETTERS "X, Y & Z" ARE VARIABLES. SEE PLAN DRAWINGS FOR PULLBOX IDENTIFICATION.

GRAPHIC SCALE
4' 2' 0' 4' 8'
1/4"=1'-0"
1' 6" 0' 1' 2'
1"=1'-0"

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	DATE 6/26/89
	DRAWN BY W. WILLIAMS	6/26/89
	TRACED BY	
	DESIGNED BY W. WILLIAMS	6/26/89
	QUANTITIES BY	
No.	CHECKED BY H. SMITH	6/27/89

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley M.O.T. Ching
STANLEY M. O. T. CHING REGISTERED PROFESSIONAL ENGINEER No. 6318-C HAWAII, U.S.A.

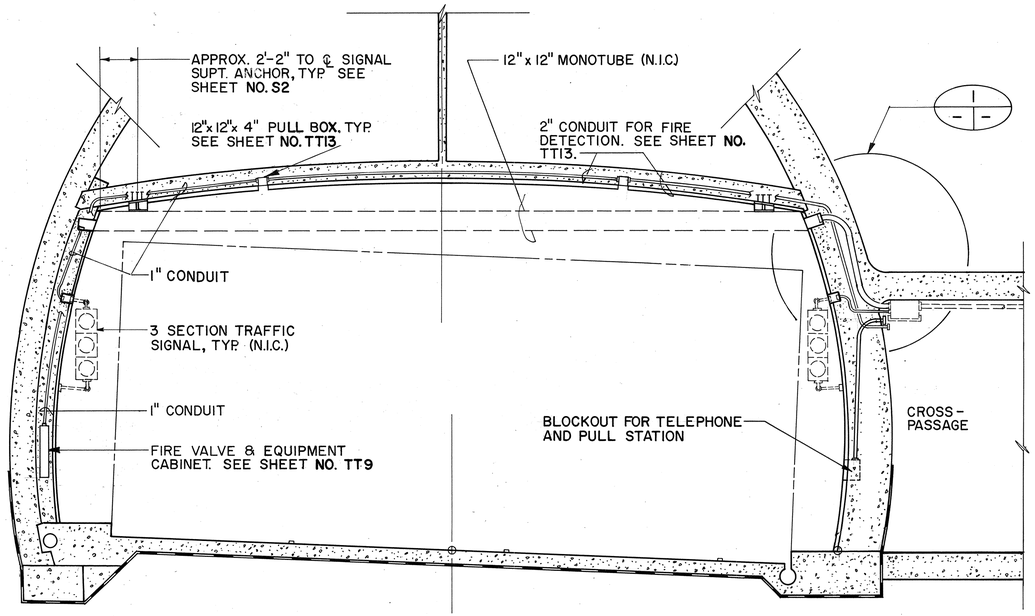
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT
DETAILS-2
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(61)

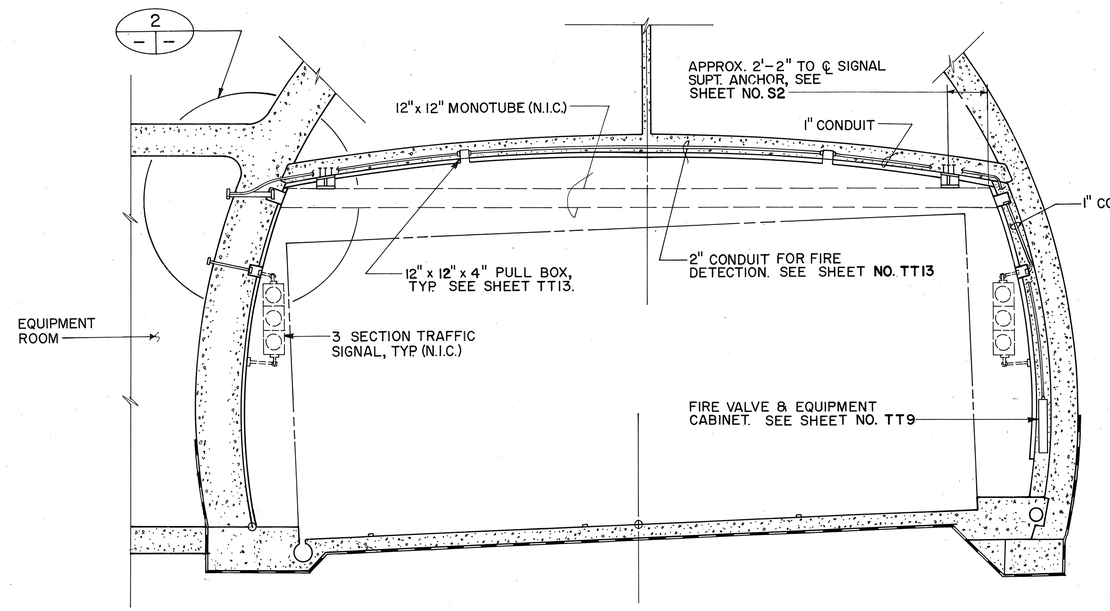
SCALE: AS NOTED DATE: JAN. 1990
SHEET NO. TT11 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-I(61)	1990	422	424



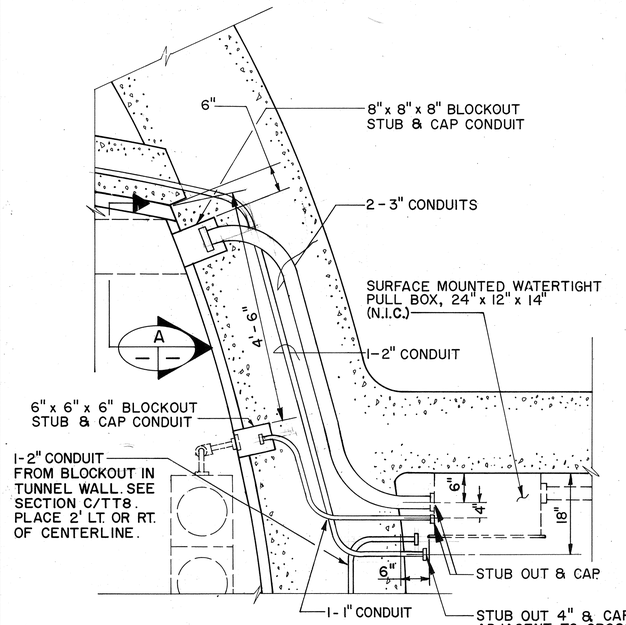
SYSTEMS CONDUIT & P. BOX INSTALLATION DETAIL

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



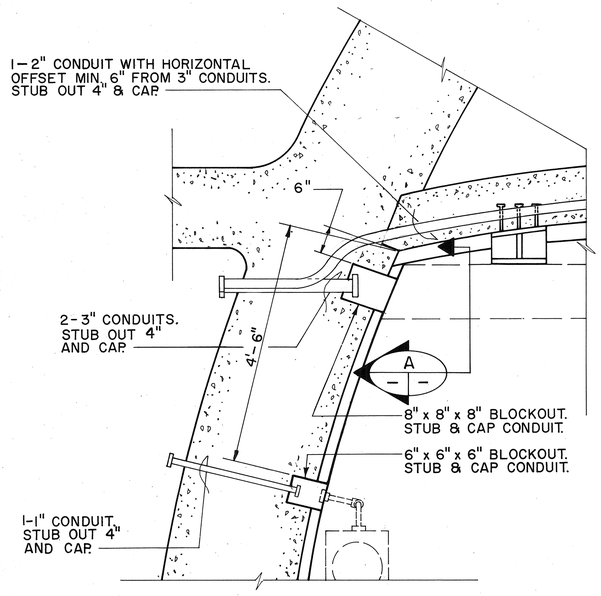
SYSTEMS CONDUIT & P. BOX INSTALLATION DETAIL

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



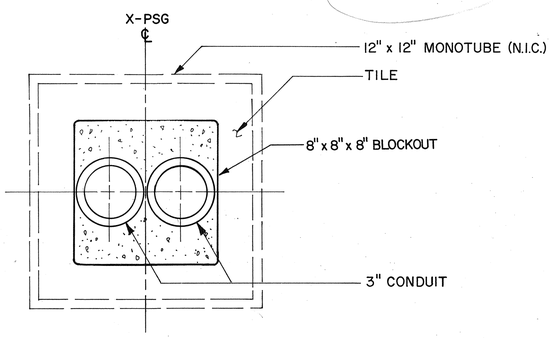
DETAIL 1

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



DETAIL 2

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



SECTION A

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

GRAPHIC SCALE

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

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT DETAILS-3

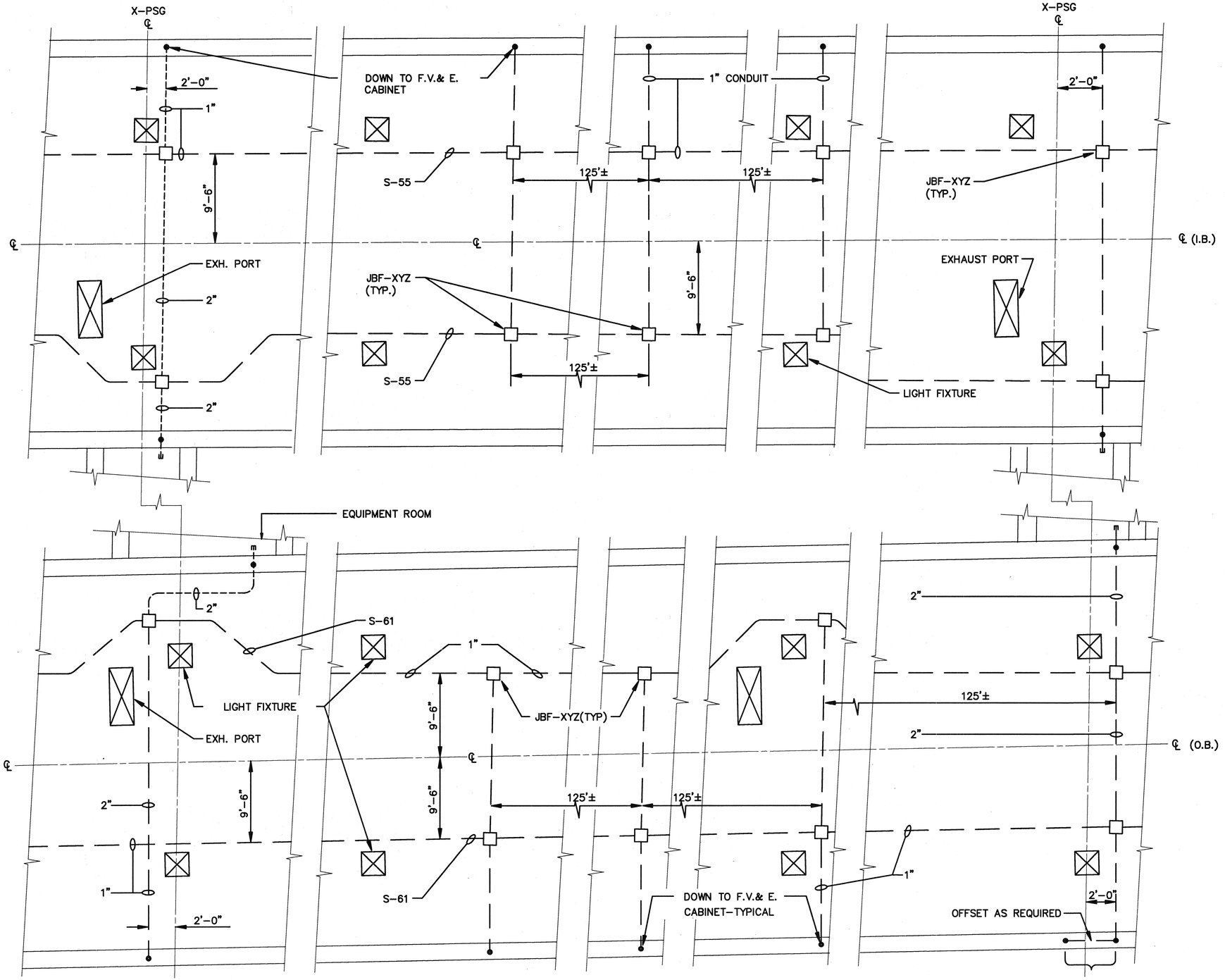
HAIKU TUNNELS
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-I(61)

SCALE: AS NOTED DATE: JAN. 1990

SHEET NO. TT12 OF 14 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 6/7/89
	DRAWN BY L.S. BOLOTIN	6/7/89
NOTE BOOK	TRACED BY	
	DESIGNED BY D. ANDERSON	6/7/89
	QUANTITIES BY	
No.	CHECKED BY H. SMITH	6/7/89

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(64)	1990	423	424



NOTE:
1. X,Y AND Z ARE VARIABLES, SEE PLAN DRAWINGS FOR IDENTIFICATION NUMBERS.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 11/9/89
	DRAWN BY CADD	
	TRACED BY	
NOTEBOOK	DESIGNED BY W.WILLIAMS	6/28/89
	QUANTITIES BY	
No.	CHECKED BY H.SMITH	11/10/89

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT TYPICAL CEILING PLAN

HAIKU TUNNELS

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: NO SCALE DATE: JAN. 1990

SHEET NO. TT13 OF 14 SHEETS

H3SCTT13 -H3-C2 -12-12-89

CONDUIT SCHEDULE

COND. NO.	CIRC. IDENT.	FROM	TO	SIZE INCHES
1				
2				
3				
4				
5				
6				
7				
8				
9				
10	T/IC	CB	NEC-1.0	3.00
11	ID	CB	NEC-1.0	3.00
12	SC	CB	NEC-1.0	3.00
13	FP	CB	NEF-1.0	3.00
14				
15				
16				
17				
18				
19				
20	T/IC	CB	SEC-1.0	3.00
21	ID	CB	SEC-1.0	3.00
22	SC	CB	SEC-1.0	3.00
23	FP	CB	SEF-1.0	3.00
24				
25	THRU	39 ARE	RESERVED	
44	TC	PBS-4S	PBT-4.2S	2.00
45	TC	PBS-4N	PBT-4.1N	2.00
46	TC	PBS-4S	PBT-4.1S	2.00
47	TC	PBS-4N	PBT-4.2N	2.00
48	SC	PBS-4S	VLV BOX	2.00
49	FP	JBF-4.1N	STUB OUT	2.00
50	FP	JBF-4.2S	STUB OUT	2.00
51	CO	NWT-1.0	HHS-12N	2.00
52				
53	TC	NWT-1.0	HHS-12N	2.00
54	TC	PBS-5N	PBT-5.1N	2.00
55	FP	JBF-0.1N	JBF-11.1N	1.00
56	FP	JBF-5.2S	EQ RM	2.00
57	FP	JBF-0.2N	JBF-11.2N	1.00
58	SC	PBS-5S	VLV BOX	2.00
59	FP	JBF-5.1N	STUB OUT	2.00
60	CO	HHS-11S	HHS-21S	2.00
61	FP	JBF-0.1S	JBF-11.1S	1.00
62	TC	HHS-12S	HHS-22S	2.00
63	FP	JBF-0.2S	JBF-11.2S	1.00
64	TC	PBS-6S	PBT-6.2S	2.00
65	TC	PBS-6N	PBT-6.1N	2.00
66	TC	PBS-6S	PBT-6.1S	2.00
67	TC	PBS-6N	PBT-6.2N	2.00
68	SC	PBS-6S	VLV BOX	2.00
69	FP	JBF-6.1N	STUB OUT	2.00
70	FP	JBF-6.2S	STUB OUT	2.00
71				
72				
73				
74	TC	PBS-7S	PBT-7.1S	2.00
75				
76	FP	JBF-7.2S	STUB OUT	2.00
77				
78	SC	PBS-7S	VLV BOX	2.00
79	FP	JBF-7.1N	STUB OUT	2.00
80	FP	JBF-8.1N	STUB OUT	2.00
81				
82	FP	JBF-8.2S	STUB OUT	2.00
83				
84	TC	PBS-8S	PBT-8.2S	2.00

COND. NO.	CIRC. IDENT.	FROM	TO	SIZE INCHES
85	TC	PBS-8N	PBT-8.1N	2.00
86	TC	PBS-8S	PBT-8.1S	2.00
87	TC	PBS-8N	PBT-8.2N	2.00
88	SC	PBS-8S	VLV BOX	2.00
89				
90				
91				
92				
93				
94				
95	TC	PBS-9N	PBT-9.1N	2.00
96	FP	JBF-9.2S	EQ. RM.	2.00
97				
98	SC	PBS-9S	VLV BOX	2.00
99	FP	JBF-9.1N	STUB OUT	2.00
100	TC	PBS-10N	PBS-10S	3.00
101	T/IC	PBS-10N	PBS-10S	3.00
102	SC/ID	PBS-10N	PBS-10S	3.00
103	FP	PBS-10N	PBS-10S	3.00
104	CO	PBS-10S	HHS-10S	2.00
105	CO	PBS-10N	HHS-10N	2.00
106	TC	PBS-10S	HHS-10S	2.00
107	TC	PBS-10N	HHS-10N	2.00
108	TC	PBS-10S	PBT-10.1S	2.00
109	TC	PBS-10N	PBT-10.1N	2.00
110	THRU	127 ARE	RESERVED	
128	TC	PBS-10S	PBT-10.2S	2.00
129	TC	PBS-10N	PBT-10.2N	2.00
130	THRU	139 ARE	RESERVED	
140	TC	PBS-4N	PBS-4S	3.00
141	T/IC	PBS-4N	PBS-4S	3.00
142	SC/ID	PBS-4N	PBS-4S	3.00
143	FP	PBS-4N	PBS-4S	3.00
144	CO	PBS-4S	HHS-4S	2.00
145	CO	PBS-4N	HHS-4N	2.00
146	TC	PBS-4S	HHS-4S	2.00
147	TC	PBS-4N	HHS-4N	2.00
148	SC	PBS-10S	VLV BOX	2.00
149				
150	TC	PBS-5N	PBS-5S	3.00
151	T/IC	PBS-5N	PBS-5S	3.00
152	SC/ID	PBS-5N	PBS-5S	3.00
153	FP	PBS-5N	PBS-5S	3.00
154	CO	PBS-5S	HHS-5S	2.00
155	CO	PBS-5N	HHS-5N	2.00
156	TC	PBS-5S	HHS-5S	2.00
157	TC	PBS-5N	HHS-5N	2.00
158	a-h	PBS-5S	EQ. RM.	3.00
159	a-h	PBS-5S	EQ. RM.	3.00
160	TC	PBS-6N	PBS-6S	3.00
161	T/IC	PBS-6N	PBS-6S	3.00
162	SC/ID	PBS-6N	PBS-6S	3.00
163	FP	PBS-6N	PBS-6S	3.00
164	CO	PBS-6S	HHS-6S	2.00
165	CO	PBS-6N	HHS-6N	2.00
166	TC	PBS-6S	HHS-6S	2.00
167	TC	PBS-6N	HHS-6N	2.00
168	FP	JBF-10.1N	STUB OUT	2.00
169	FP	JBF-10.2S	STUB OUT	2.00
170	TC	PBS-7N	PBS-7S	3.00
171	T/IC	PBS-7N	PBS-7S	3.00
172	SC/ID	PBS-7N	PBS-7S	3.00
173	FP	PBS-7N	PBS-7S	3.00
174	CO	PBS-7S	HHS-7S	2.00
175	CO	PBS-7N	HHS-7N	2.00
176	TC	PBS-7S	HHS-7S	2.00
177	TC	PBS-7N	HHS-7N	2.00
178	a-h	PBS-7N	EQ. RM.	3.00
179	a-h	PBS-7N	EQ. RM.	3.00
180	TC	PBS-8N	PBS-8S	3.00

COND. NO.	CIRC. IDENT.	FROM	TO	SIZE INCHES
181	T/IC	PBS-8N	PBS-8S	3.00
182	SC/ID	PBS-8N	PBS-8S	3.00
183	FP	PBS-8N	PBS-8S	3.00
184	CO	PBS-8S	HHS-8S	2.00
185	CO	PBS-8N	HHS-8N	2.00
186	TC	PBS-8S	HHS-8S	2.00
187	TC	PBS-8N	HHS-8N	2.00
188				
189				
190	TC	PBS-9N	PBS-9S	3.00
191	T/IC	PBS-9N	PBS-9S	3.00
192	SD/ID	PBS-9N	PBS-9S	3.00
193	FP	PBS-9N	PBS-9S	3.00
194	CO	PBS-9S	HHS-9S	2.00
195	CO	PBS-9N	HHS-9N	2.00
196	TC	PBS-9S	HHS-9S	2.00
197	TC	PBS-9N	HHS-9N	2.00
198	a-h	PBS-9S	EQ. RM.	3.00
199	a-h	PBS-9S	EQ. RM.	3.00
200	THRU	599 ARE	RESERVED	
600				
601	T/IC	NEC-1.0	ROOF	2.00
602	SC/ID	NEC-1.0	ROOF	2.00
603	CO	NEC-1.0	ROOF	2.00
604				
605	FP	NEF-1.0	ROOF	2.00
606	TC	NET-1.0	NET-2.0	2.00
607	TC	NET-1.2	NET-2.1	2.00
608	TC	NET-1.2	NET-2.1	2.00
609				
610	THRU	699 ARE	RESERVED	
700				
701	T/IC	SEC-1.0	ROOF	2.00
702	SC/ID	SEC-1.0	ROOF	2.00
703	CO	SEC-1.0	ROOF	2.00
704				
705	FP	SEF-1.0	ROOF	2.00
706	TC	SET-1.0	SET-2.0	2.00
707	TC	SET-1.1	SET-2.1	2.00
708	TC	SET-1.1	SET-2.1	2.00
709				
710	THRU	799 ARE	RESERVED	
800				
801	TC	PBS-15	SG-1	1.50
802	CO	SEC-1.0	PBS-16	2.00
803	CO	PBS-16	ATTEN	1.00
804	TC	PBS-15	PBS-17	3.00
805	CO	HHS-20N	PBS-18	3.00
806	CO	HHS-20N	PBS-18	3.00
807	TC	HHS-19N	PBS-17	3.00
808	TC	HHS-19N	PBS-17	3.00
809	CO	HHS-20S	PBS-18	3.00
810	CO	HHS-20S	PBS-18	3.00
811	TC	HHS-19S	PBS-17	3.00
812	TC	HHS-19S	PBS-17	3.00
813	TC	PBS-15	VMS CON	3.00
814	CO	PBS-16	VMS CON	3.00
815	TC	PBS-15	SIGNAL	3.00
816	CO	PBS-16	SIGNAL	3.00
817	TC	PBS-15	SG-2	1.50
818	CO	PBS-16	PBS-18	3.00
819	CO	VIADUCT	PBS-18	2.00
820	CO	VIADUCT	PBS-18	2.00
821	TC	PBS-17	SG-3	1.50
822	TC	PBS-17	VAULT	3.00
823	TC	PBS-17	VAULT	3.00
824	TC	PBS-17	VAULT	3.00
825	CO	PBS-18	VAULT	3.00
826	CO	PBS-18	VAULT	3.00
827	CO	PBS-18	VAULT	3.00

COND. NO.	CIRC. IDENT.	FROM	TO	SIZE INCHES
828	THRU	850 ARE	RESERVED	
851	CO	HHS-11N	264+48	2.00
852				
853	TC	HHS-12N	264+48	3.00
854				
855				
856				
857				
858				
859				
860	CO	HHS-11S	258+00	2.00
861	SP	HHS-11S	258+00	1.00
862	TC	HHS-12S	258+00	3.00
863				
864				
865				
866				
867				
868				
869				
870	THRU	899 ARE	RESERVED	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(61)	1990	424	424

PULL BOX SCHEDULE

INDENTIFICATION NUMBER	TYPE	SIZE	SHEET LOCATION	QTY
PBS 4N-10N & PBS 4S-10S	SPECIAL	54"x48"x30"	T2, TT1-TT9, TT11 TT12, S3, ST2, ST5	14
PBS 15-18	2	48"x32"x26"	TB2, TB3	4
HHS 4N-12N & HHS 4S-12S	1,3,4	18"x16"x18"	T2, TM2, TQ2, TT1-TT 9	18
HHS 13N-17N, 19N & HHS 13S, 19S	6	18"x10"x6"	TB1, TB2	8
HHS 18N, 20N & 20S	6	24"x8"x8"	TB2	3
SEC 1.0 & NEC 1.0	1,3,4	24"X24"X18"	T2, TM2-TM5, TM7-TM9	2
			TQ2-TQ5, TQ7-TQ9	△
SET-1.0 & NET 1.0 △	1,3,4	18"x18"x9"	T2, TM2-TM5, TM7-TM9	2
			TQ2-TQ5, TQ7-TQ9	
SEC 2.0-4.0 & NEC 2.0-4.0	5	16"x16"x12"	TM3-TM5, TM7-TM9,	6
			TQ3-TQ5, TQ7-TQ9	
SEF 2.0-4.0 & NEF 2.0-4.0	5	16"x10"x12"	TM3-TM5, TM7-TM9,	6
			TQ3-TQ5, TQ7-TQ9	
SET 1.1, 1.2 & NET 1.1, 1.2 △	1	8"x8"x8"	TM2, TM7, TM9,	4
			TQ2, TQK7, TQ9	
SET 2.0, 2.1 & NET 2.0, 2.1	5	16"x10"x12"	TM3, TM7, TM9,	12
			TQ3, TQ7, TQ9	
PBT 4.1N-10.N & PBT 4.2S-10.1S	6	6"x6"x4"	TT1-TT8	14
PBT 4.2N-10.2N & PBT 4.2S-10.2S	6	6"x6"x4"	TT1-TT8	14
PBC 4.1N-10.1N & PBC 4.1S-10.1S	6	4"x4"x3"	TT1-TT8	14
PBC 4.2N-10.2N & PBC 4.2S-10.2S	6	4"x4"x3"	TT1-TT8	14
PBC 4.3N-10.3N & PBC 4.3S-10.2S	6	4"X4"X4"	TT1 - TT8	10
JBF 5.1, 5.2N & JBF 5.15, 5.25	6	12"x12"x4"	TT2, TT13	4
JBF 7.1N, 7.2N & JBF 7.1S, 7.2S	6	12"x12"x4"	TT4, TT13	4
JBS 9.1N, 9.2N, & JBF 9.1S, 9.2S	6	12"x12"x4"	TT6, TT13	4
JBF 4.1N=4.8N & JBF 4.1S-4.8S	6	8"x8"x4"	TT1, TT13	16
JBF 5.3N-5.8N & JBF 5.3S-5.8S	6	8"x8"x4"	TT2, TT13	12
JBF 6.1N-6.8N & JBF 6.1S-6.8S	6	8"x8"x4"	TT3, TT13	16
JBF 7.3N-7.8N & JBF 7.3S-7.8S	6	8"x8"x4"	TT4, TT13	12
JBF 8.1N-8.8N & JBF 8.1S-8.8S	6	8"x8"x4"	TT5, TT13	16
JBF 9.3N-9.8N & JBF 9.3S-9.8S	6	8"x8"x4"	TT6, TT13	12
JBF 10.1N-10.8N & JBF 10.1S-10.8S	6	8"x8"x4"	TT7, TT13	16
△ JBF 11.1S, 11.2S, 11.1N, 11.2N	6	8"x8"x4"	TM2, TQ2	4

DATE	REVISION
8/12/91	REVISED PB SCHEDULE PER DCN 61-007
4/26/90	ADDED CONDUIT NOS 606, 607 & 608; REVISED PULL BOX SCHEDULE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS CONDUIT SCHEDULES

HAIKU TUNNEL

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(61)

SCALE: NONE DATE: JAN. 1990

SHEET TT14 OF 14 SHEETS

STANLEY M. O. T. CHING
REGISTERED PROFESSIONAL ENGINEER
No. 6312-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Stanley M.O.T. Ching

		DATE
ORIGINAL PLAN	SURVEY PLOTTED BY	11/9/89
	DRAWN BY CADD	
	TRACED BY	6/26/89
NOTEBOOK	DESIGNED BY W.WILLIAMS	
	QUANTITIES BY	11/20/89
No.	CHECKED BY H.SMITH	

H3SCTT14 -H3-C2 -12-12-89

ADD. 424