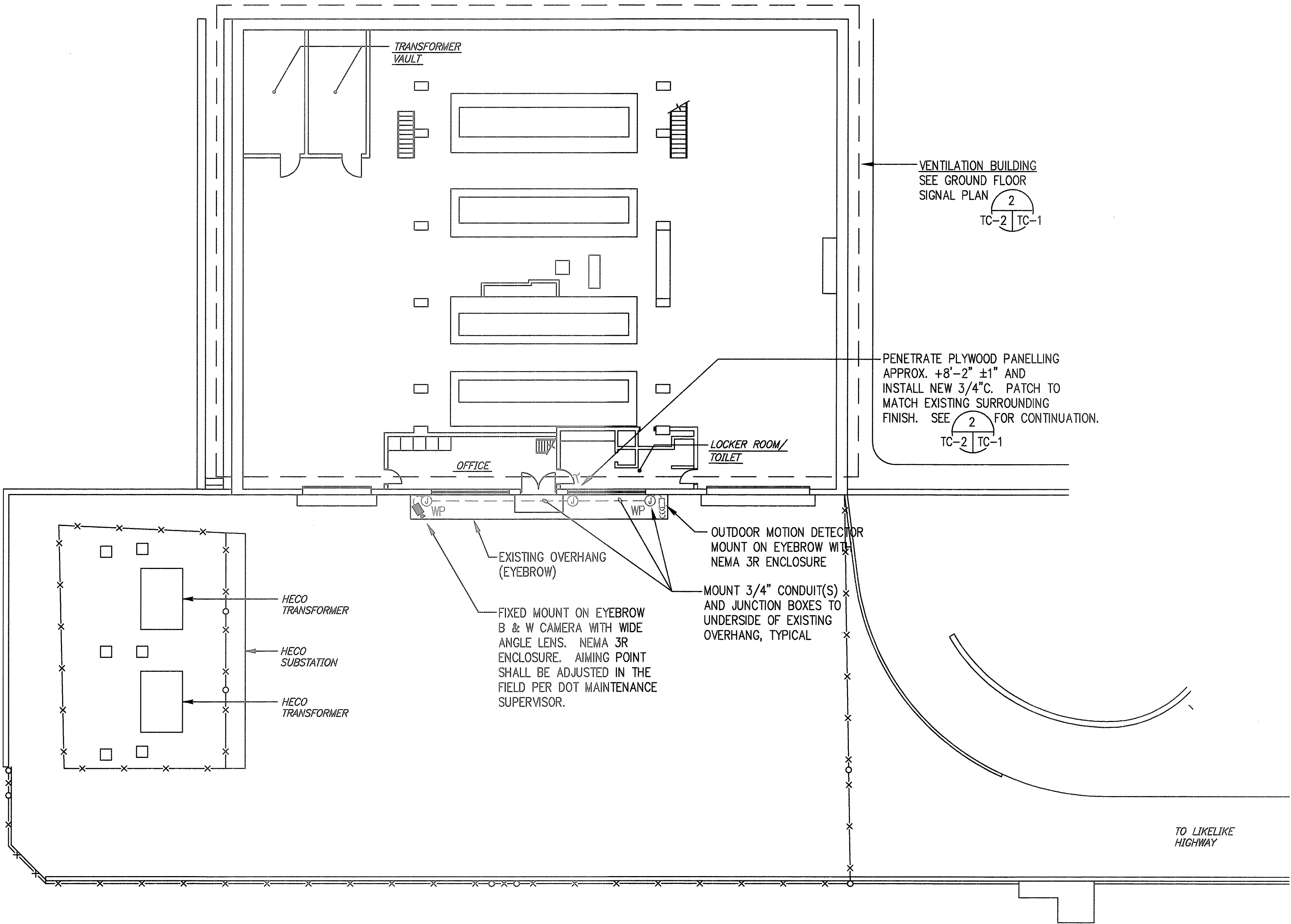


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	63	77



SYMBOL LIST

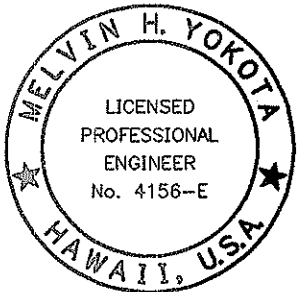
- NEW DOME TYPE CCTV CAMERA WITH PAN, TILT, ZOOM (PTZ) CONTROL
- NEW FIXED-MOUNTED, BLACK & WHITE CCTV CAMERA IN WP HOUSING
- NEW OUTDOOR MOTION DETECTOR
- NEW BALANCED MAGNETIC SWITCH
- NEW 4" SQUARE JUNCTION BOX UNLESS OTHERWISE INDICATED
- ENCLOSURE (AS INDICATED)
- EQUIPMENT RACK (AS INDICATED)
- NEW 3/4" C, SURFACE-MOUNTED (UNLESS OTHERWISE INDICATED)
- NEW 3/4" LIQUID-TIGHT FLEX CONDUIT (UNLESS OTHERWISE INDICATED)

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

VENTILATION BLDG SITE SIGNAL PLAN
SCALE: 1" = 10'

GRAPHIC SCALE

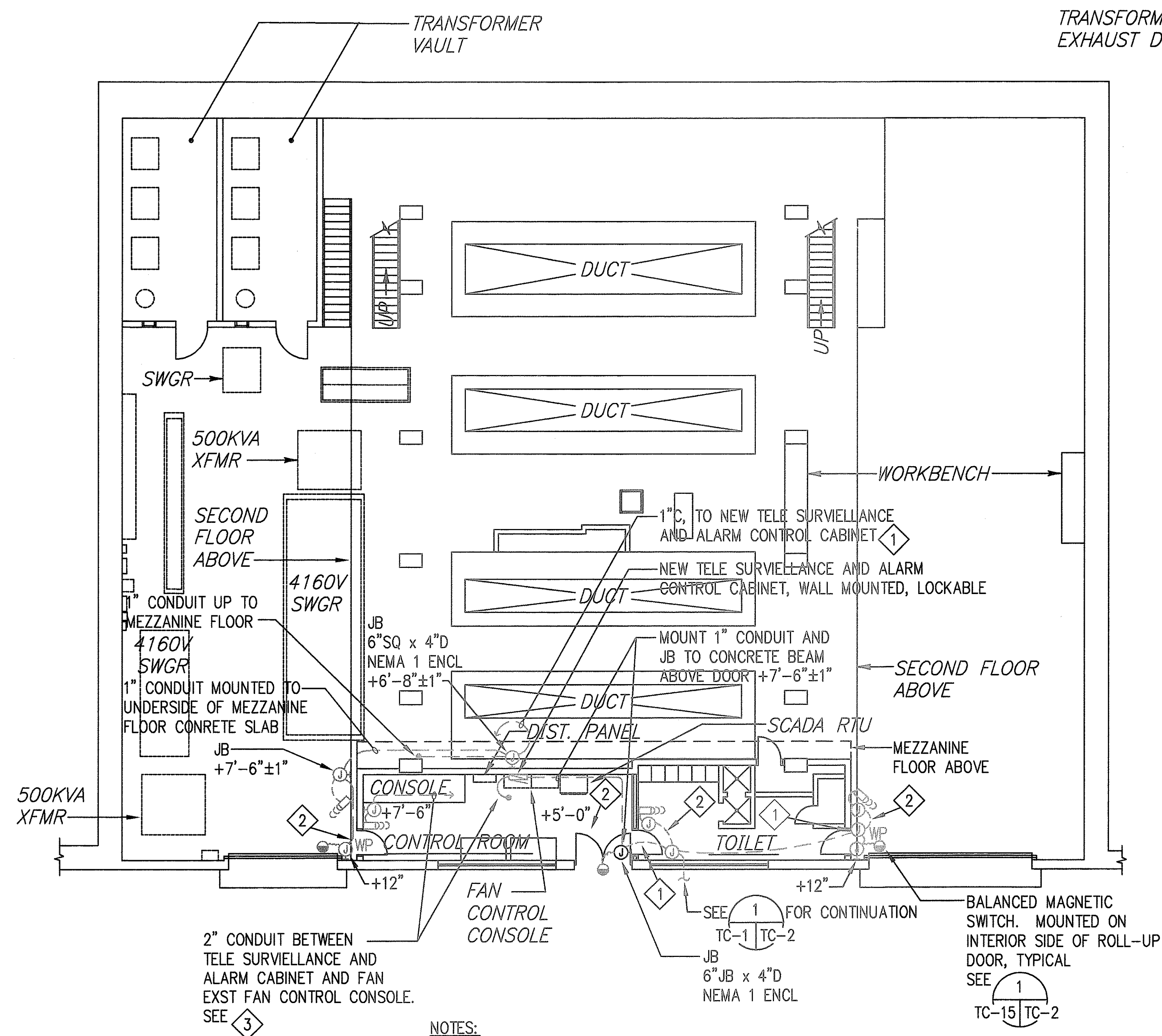
10 5 0 10 20FT
SCALE: 1"=10'



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Melvin H. Yokota
Signature

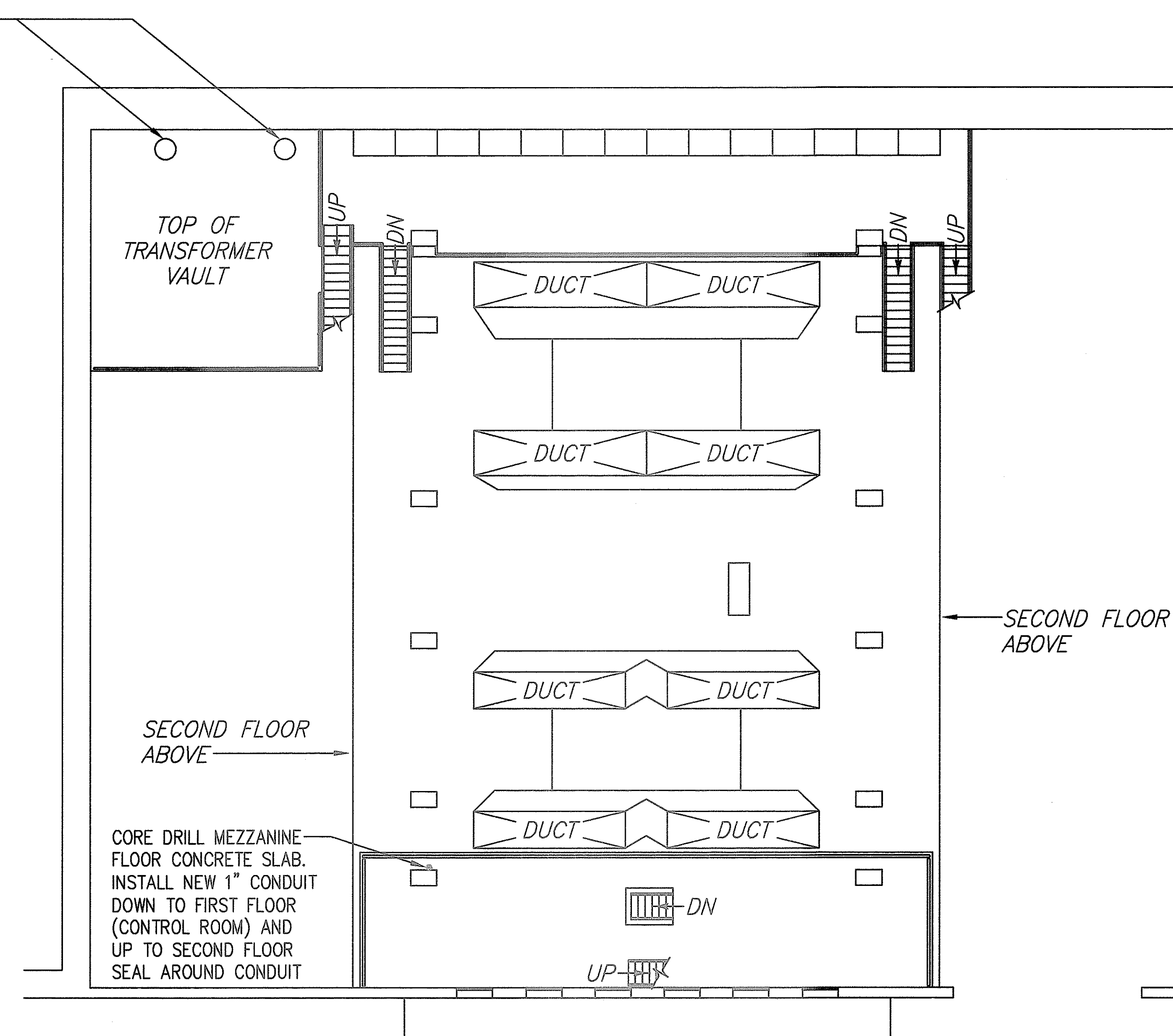
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**VENTILATION BLDG
SITE SIGNAL PLAN**
WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000
SHEET No. TC-1 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	HWY-0-21-98M	2001	64	77



- NOTES:
- 1 PENETRATE WALL, INSTALL CONDUIT(S), PATCH TO MATCH EXISTING SURROUNDING FINISH. PAINT CONDUIT(S) TO MATCH WALL/CEILING COLORS.
 - 2 LOCATE CONDUIT(S) ABOVE DOORWAY.
 - 3 USE EXST 2" C IN FAN CONTROL CONSOLE TO EXTEND CABLING TO UTILITY SHAFT.

2 VENTILATION BLDG GROUND FLOOR SIGNAL PLAN
TC-1 TC-2 SCALE: 1/8" = 1'-0"

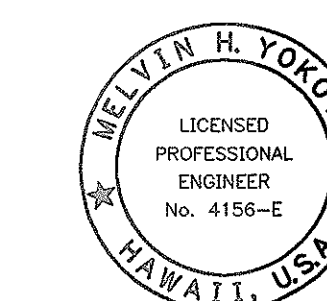


3 VENTILATION BLDG MEZZANINE FLOOR SIGNAL PLAN
TC-2 TC-2 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE

86420 8 16FT

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



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Mehin H. Yoboke
Special Agent

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

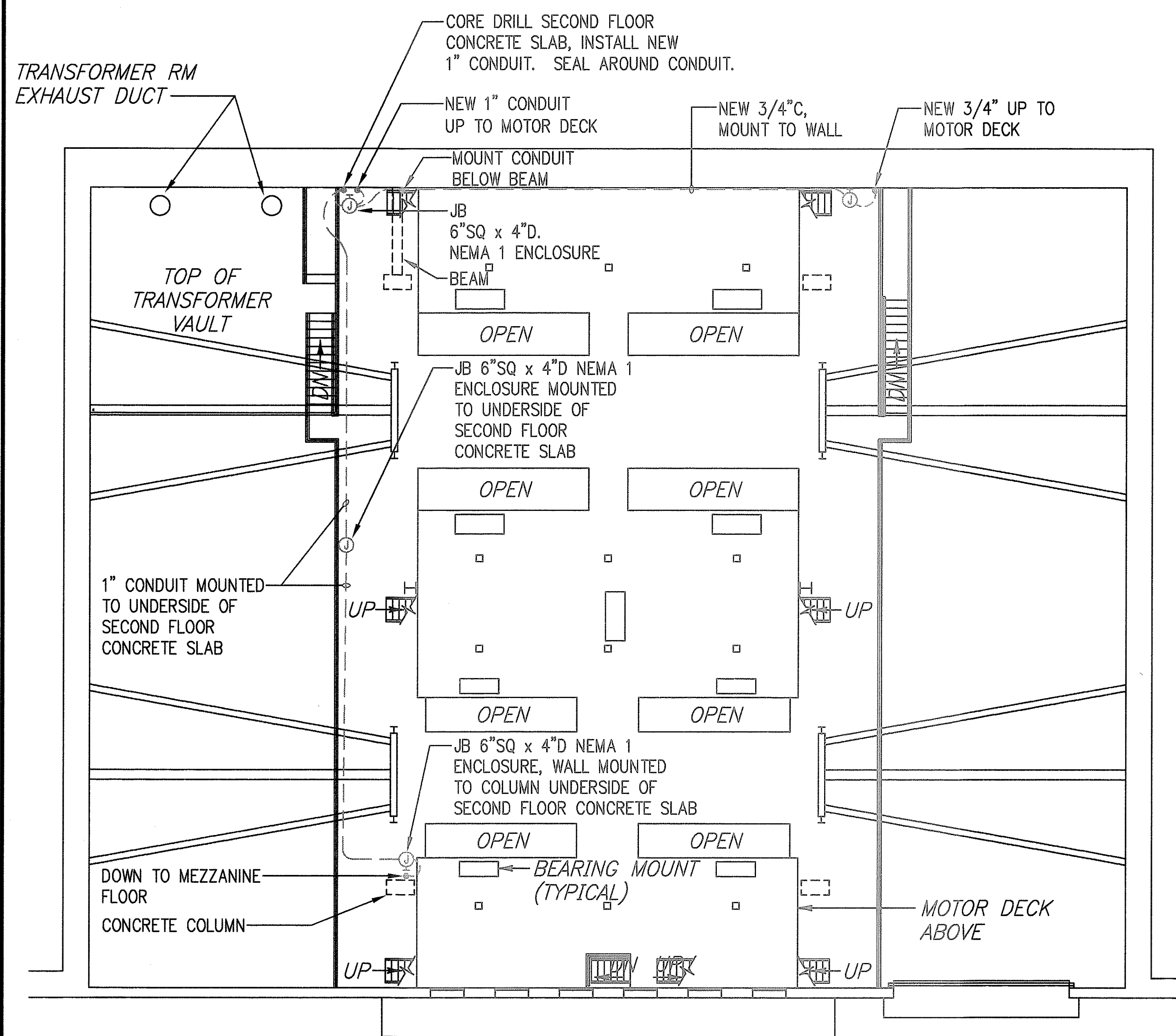
VENT BLDG GRD &
MEZZ FLOOR SIGNAL PLANS

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M

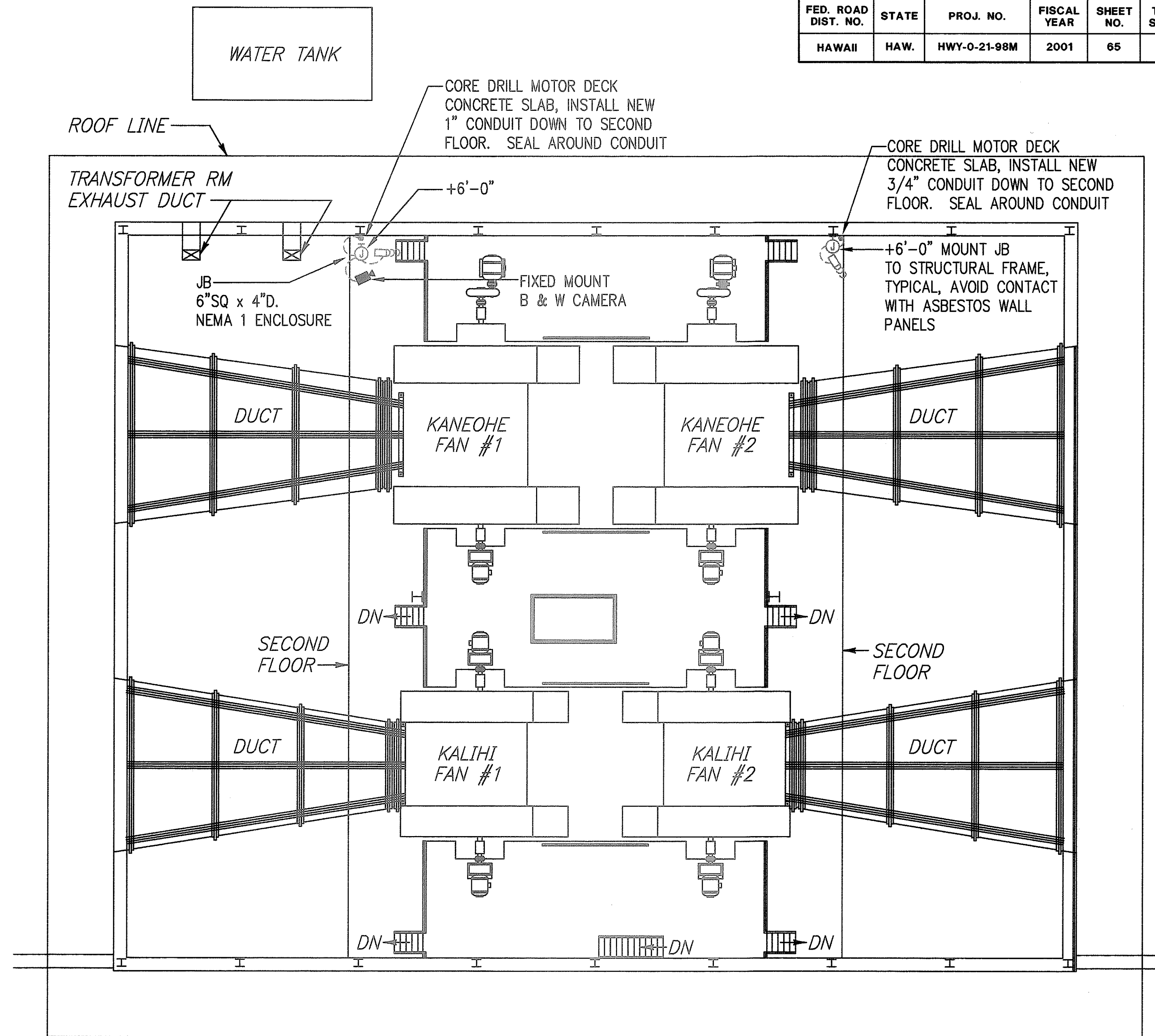
Scale: As Noted Date: JULY 2000

SHEET No. TC-2 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	65	77



4 VENTILATION BLDG SECOND FLOOR SIGNAL PLAN
TC-3 TC-3 SCALE: 1/8 = 1'-0

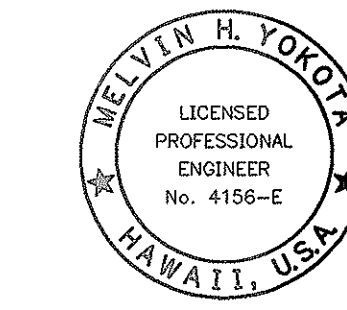


5 VENTILATION BLDG MOTOR DECK SIGNAL PLAN
TC-3 TC-3 SCALE: 1/8 = 1'-0

GRAPHIC SCALE

8 6 4 2 0 8 16 FT

SCALE: 1/8=1'-0"



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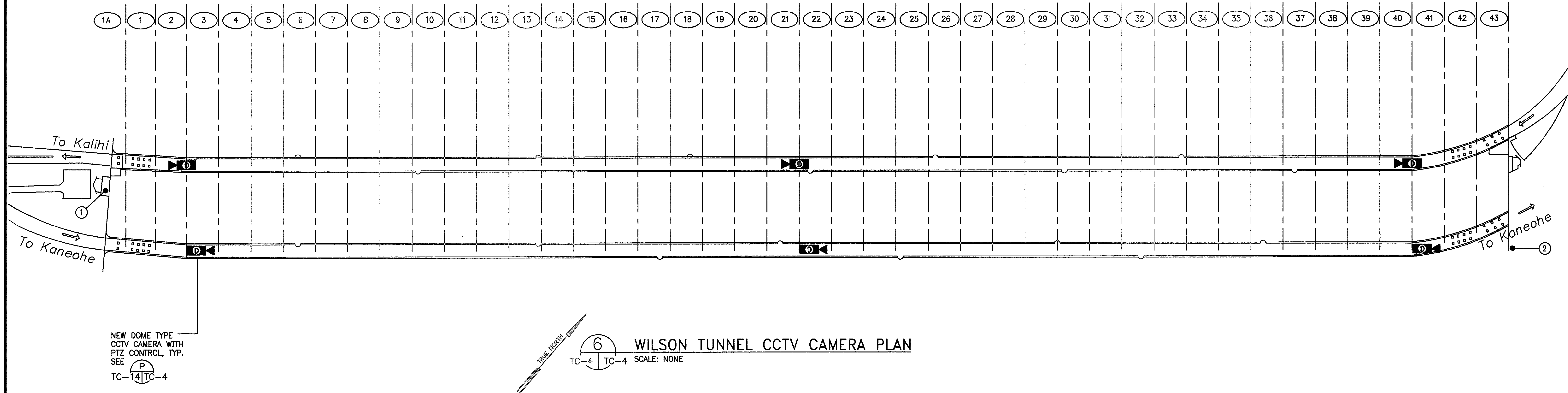
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**VENT BLDG SECOND FL &
MTR DECK SIGNAL PLANS**

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

SHEET No. TC-3 OF TC-15 SHEETS

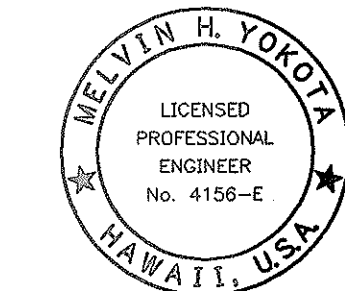
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	66	77



NOTES

- ① FIXED BLACK/WHITE CAMERA LOCATED ABOVE KALIHI PORTAL BUILDING. SEE TC-15 TC-4
- ② FIXED BLACK/WHITE CAMERA LOCATED ABOVE BRICK FACING ON KANEOHE PORTAL. SEE TC-15 TC-4
- ③ SEE SHT E12 FOR CAMERA WIRING SCHEMATIC DIAGRAM.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



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Signature

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

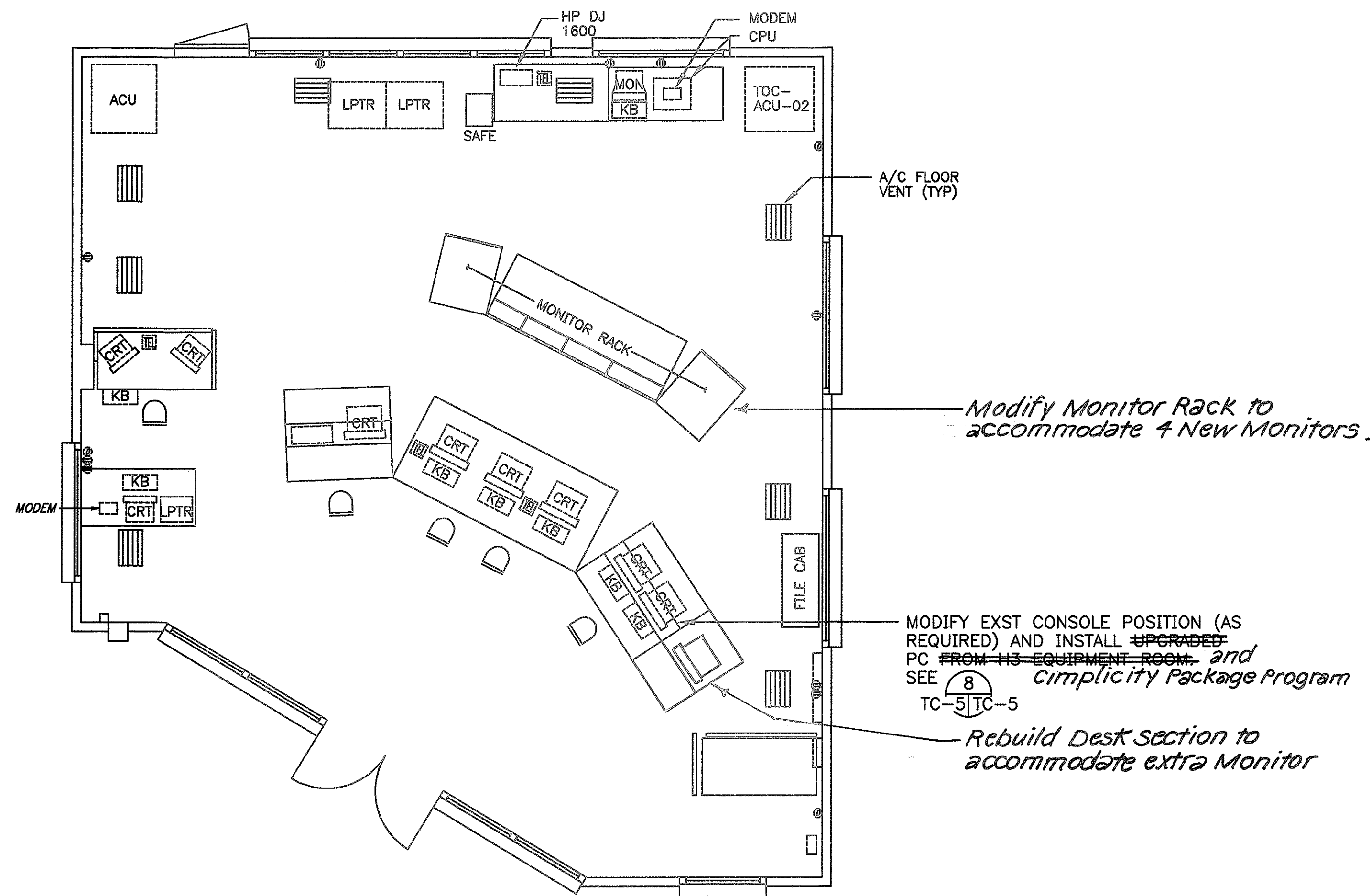
WILSON TUNNEL
CCTV CAMERA PLAN

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE

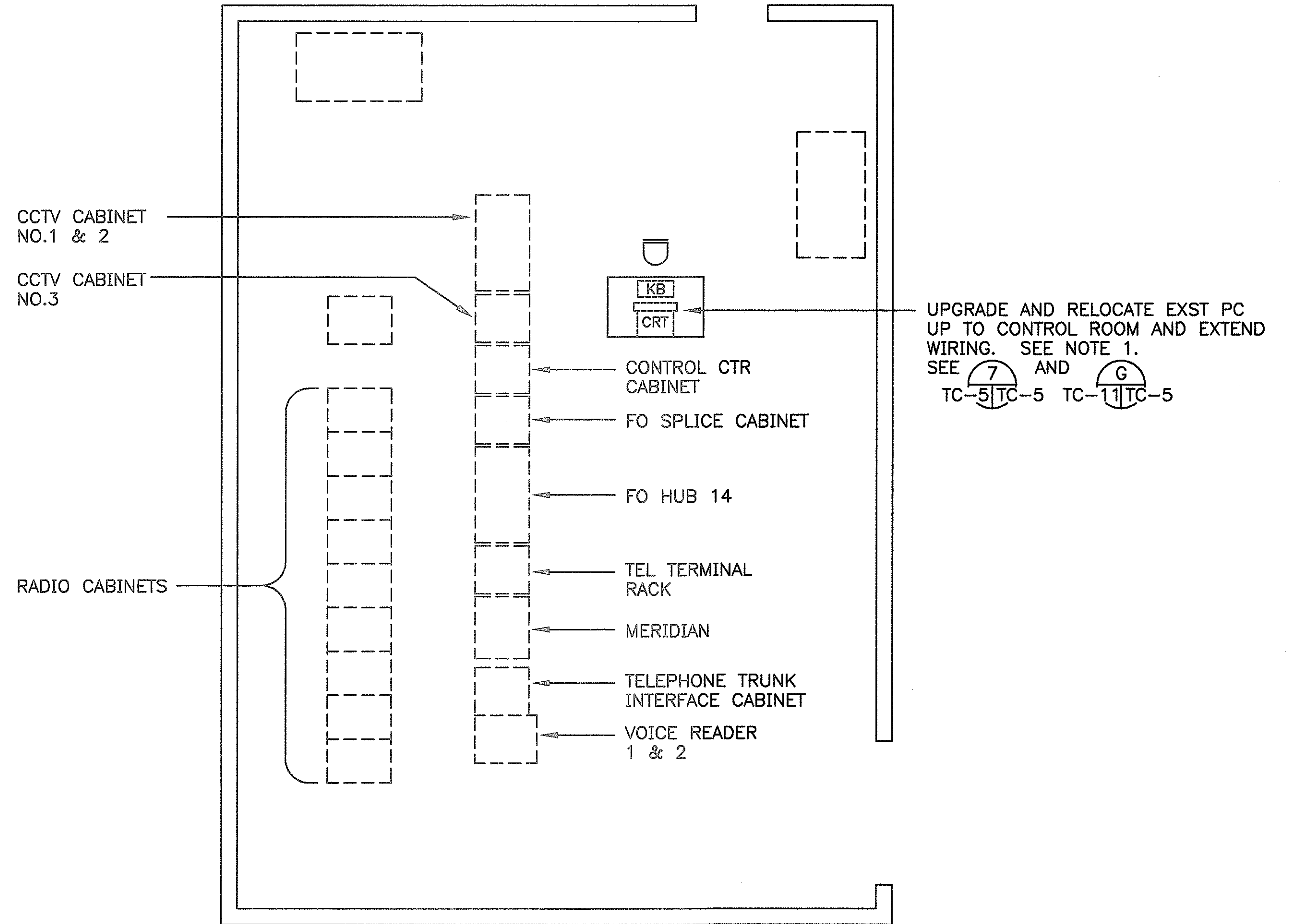
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

SHEET No. TC-4 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	67	77

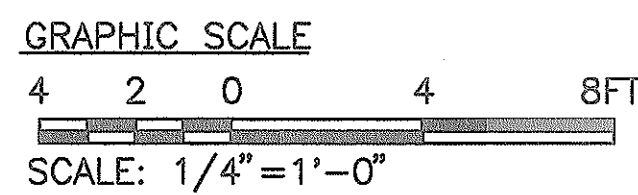


7 H3 CONTROL RM PLAN
TC-5 TC-5 SCALE: 1/4"=1'-0"



8 H3 COMM EQUIPMENT RM PLAN
TC-5 TC-5 SCALE: 1/4"=1'-0"

- NOTES
1. PRIOR TO RELOCATION TO CONTROL ROOM, CONTRACTOR TO ~~MODIFY EXST~~ PC TO MEET MINIMUM HARDWARE REQUIREMENTS FOR CLIENT PC. **INCLUDING SIMPLICITY PACKAGE PROGRAM**
- Provide New



MELVIN H. YOKOTA
LICENSED PROFESSIONAL ENGINEER
No. 4158-E
HAWAII, USA

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Melvin H. Yokota
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

H3 CONTROL AND EQUIPMENT ROOM PLANS

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE

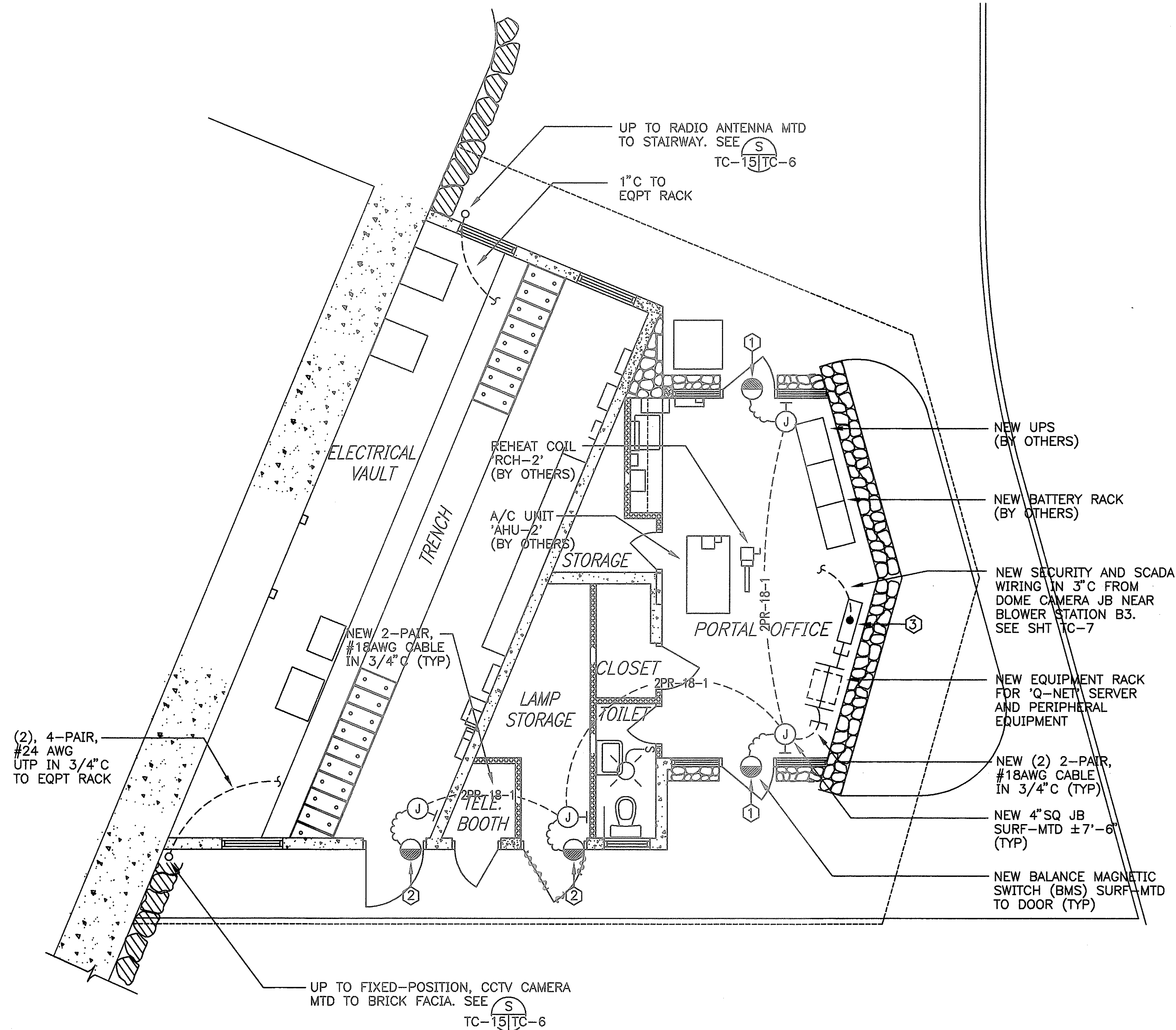
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

SHEET No. TC-5 OF TC-15 SHEETS

ORIGINAL PLAN	DATE
NOTED	DATE
DESIGNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

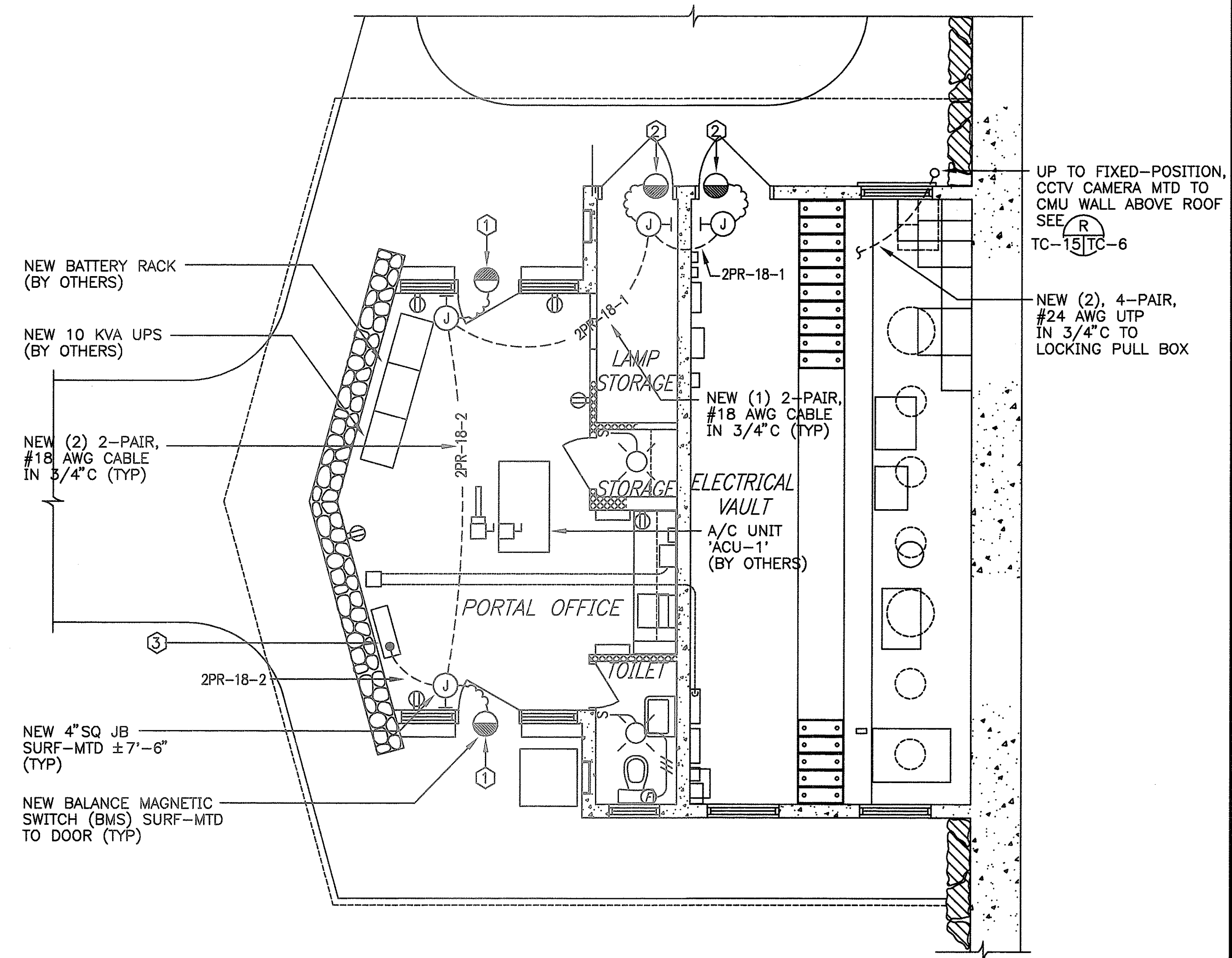
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	68	77



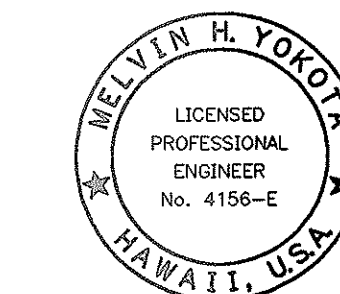
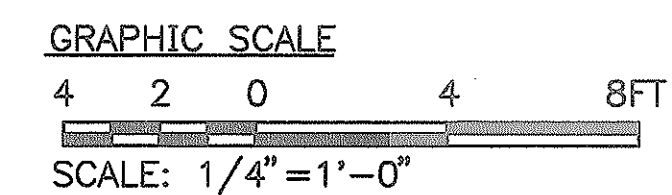
9 KANEOHE PORTAL OFFICE INTRUSION SYSTEM PLAN
 TC-6 TC-6 SCALE: 1/4"=1'-0"

- ① WIRE BALANCED MAGNETIC SWITCHES IN PARALLEL. SEE TC-12/TC-6
- ② WIRE BALANCED MAGNETIC SWITCHES IN PARALLEL. SEE TC-12/TC-6
- ③ NEW 16"X16"X6", NEMA 1, LOCKING PULL BOX FOR SECURITY AND SCADA SYSTEM



10 KALIHI PORTAL BLDG INTRUSION SYSTEM PLAN
 TC-6 TC-6 SCALE: 1/4"=1'-0"

- ① WIRE BALANCED MAGNETIC SWITCHES IN PARALLEL. SEE TC-12/TC-6
- ② WIRE BALANCED MAGNETIC SWITCHES IN PARALLEL. SEE TC-12/TC-6
- ③ NEW 12"X12"X6", NEMA 1, LOCKING PULL BOX FOR SECURITY SYSTEM. COORDINATE LOCATION WITH PULL BOX SHOWN ON ELECTRICAL SHEET.



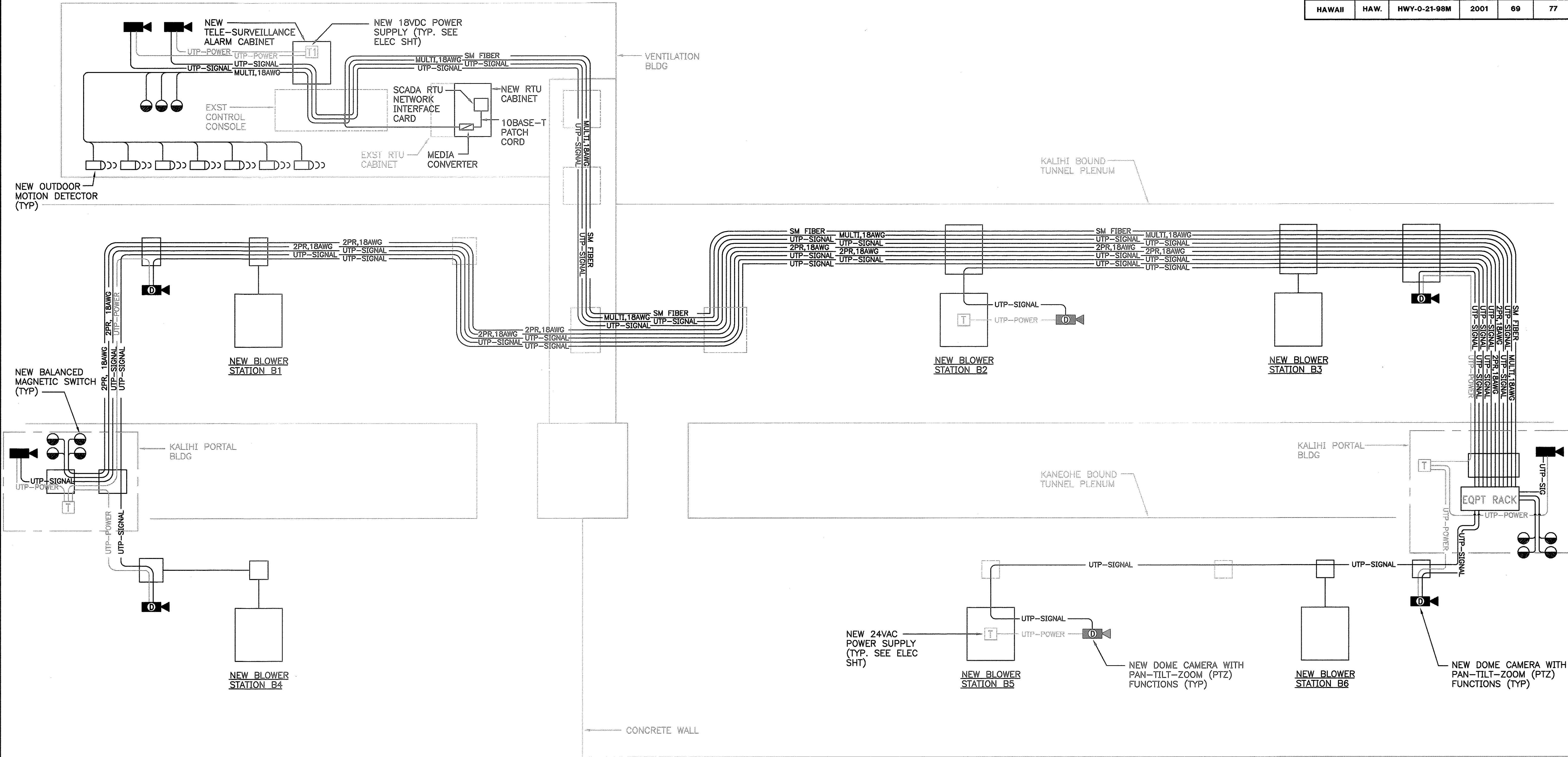
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 Signature: *Melvin H. Yokota*
 Date: *JULY 2000*

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PORTAL OFFICE
INTRUSION SYS PLANS
 WILSON TUNNEL IMPROVEMENTS
 SCADA UPGRADE
 PROJECT NO. HWY-0-21-98M
 Scale: As Noted Date: JULY 2000
 SHEET No. TC-6 OF TC-15 SHEETS

"AS-BUILT"

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	69	77



CABLE TYPES:

- SM FIBER: SINGLE MODE FIBER OPTIC CABLE
- UTP-POWER: 4-PAIR, 24 AWG, UNSHIELDED TWISTED PAIR (UTP) CABLE FOR POWER
- UTP-SIGNAL: 4-PAIR, 24 AWG, UNSHIELDED TWISTED PAIR (UTP) CABLE FOR SIGNAL
- 2PR, 18AWG: 2-PAIR, 18 AWG, UNSHIELDED INSTRUMENTATION CABLE
- MULTI, 18AWG: 2-PAIR, 18 AWG, UNSHIELDED INSTRUMENTATION CABLE

SECURITY SYSTEM RISER DIAGRAM

NOTE: RISER DIAGRAM SCHEMATICALLY INDICATES SECURITY SYSTEM COMPONENT CONNECTIVITY. FOR JUNCTION BOX SIZING AND CONDUIT/CABLE ROUTING, REFER TO "SIGNAL NEW WORK RISER DIAGRAM", SHEET E-12.

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

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 Signature

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SECURITY SYSTEM
RISER DIAGRAM
 WILSON TUNNEL IMPROVEMENTS
 SCADA UPGRADE
 PROJECT NO. HWY-0-21-98M
 Scale: As Noted Date: JULY 2000
 SHEET No. TC-7 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	70	77

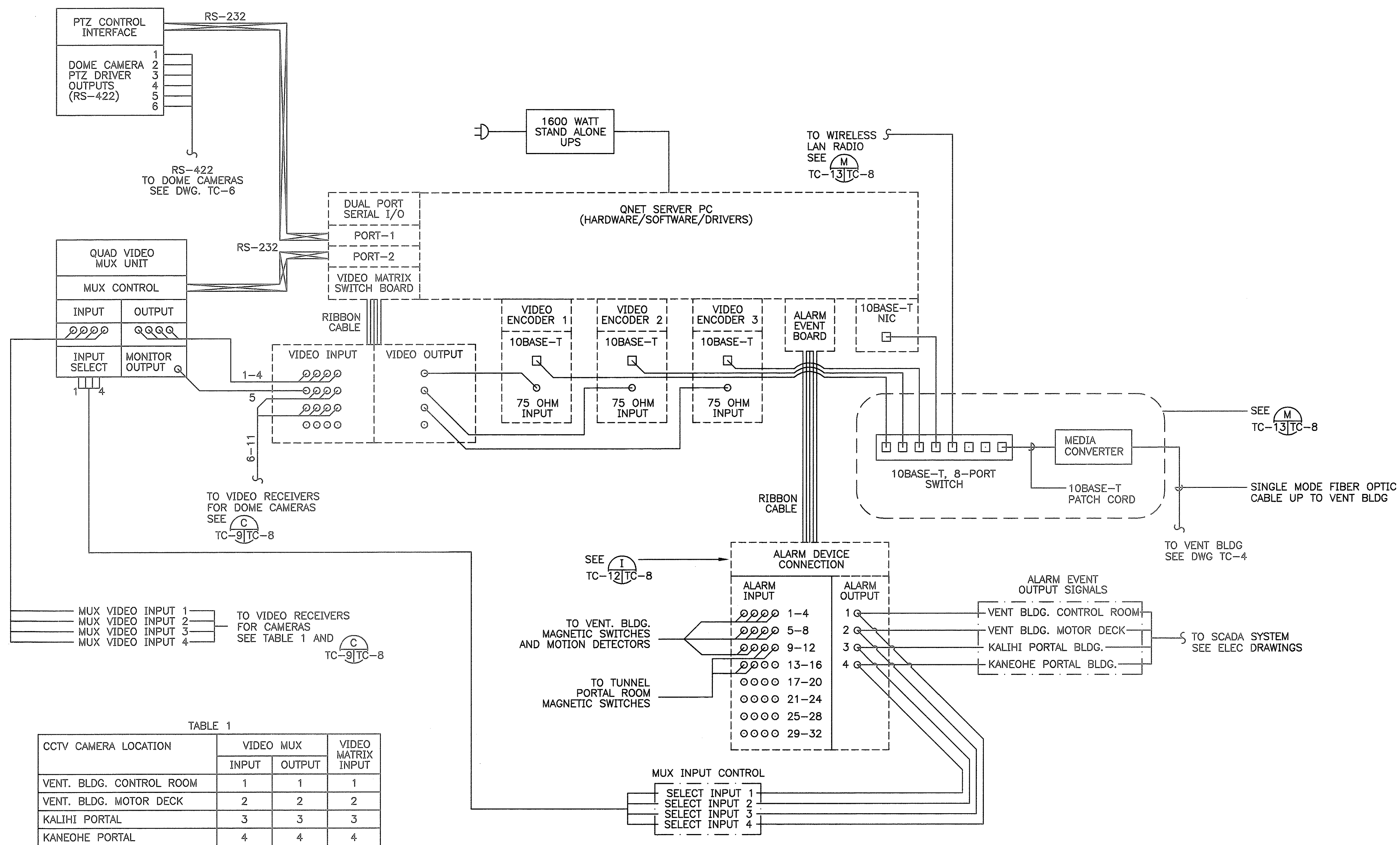
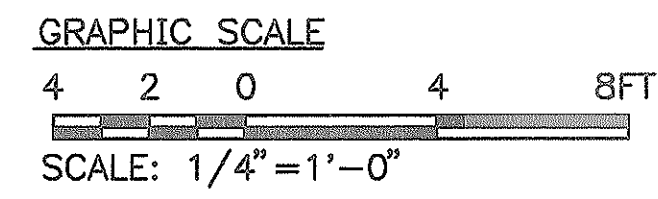


TABLE 1

CCTV CAMERA LOCATION	VIDEO MUX		VIDEO MATRIX INPUT
	INPUT	OUTPUT	
VENT. BLDG. CONTROL ROOM	1	1	1
VENT. BLDG. MOTOR DECK	2	2	2
KALIHI PORTAL	3	3	3
KANEOHE PORTAL	4	4	4

SURVEY PLANNED BY _____ DATE _____
 DESIGNED BY _____
 CHECKED BY _____
 NO. _____

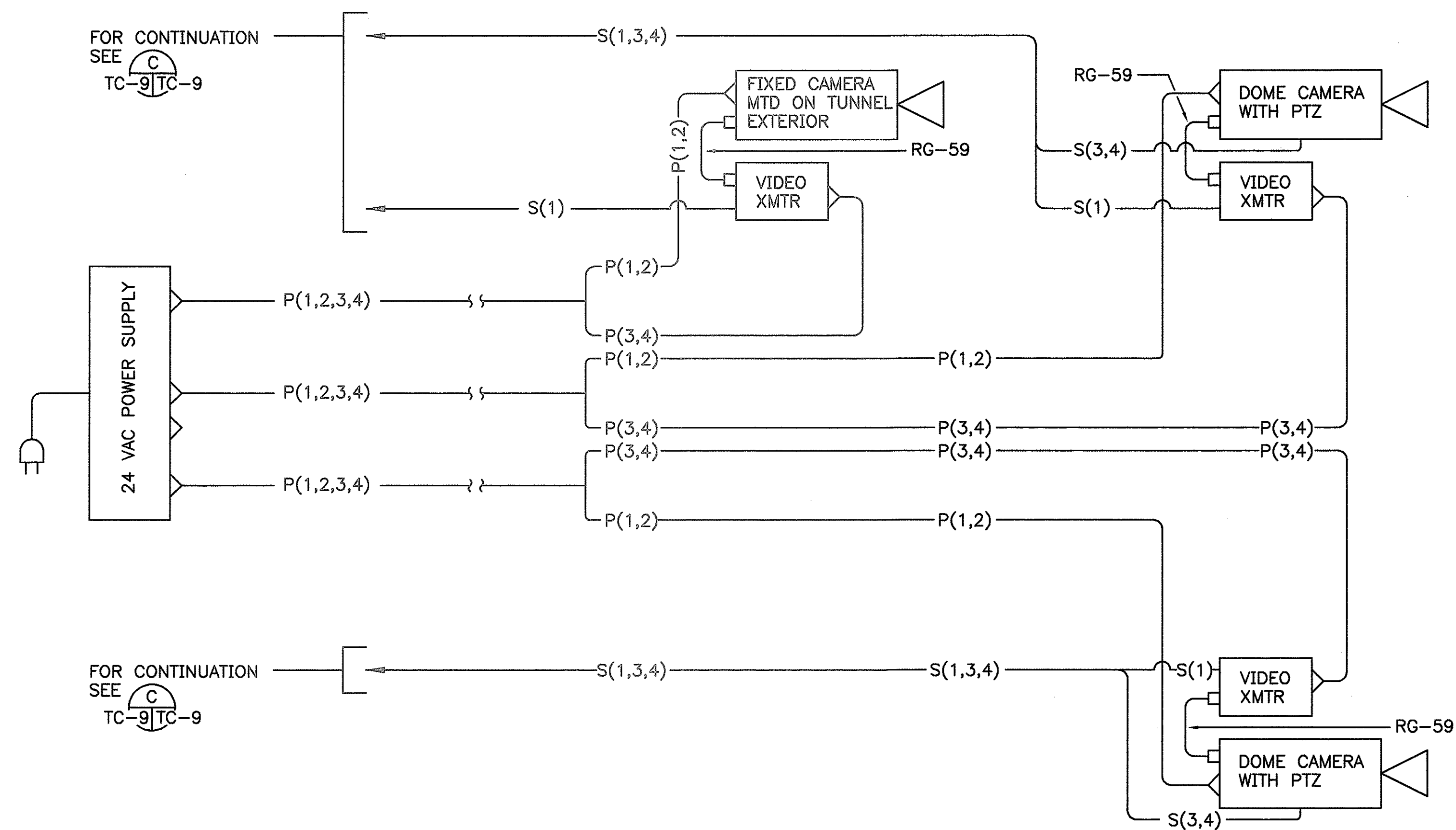
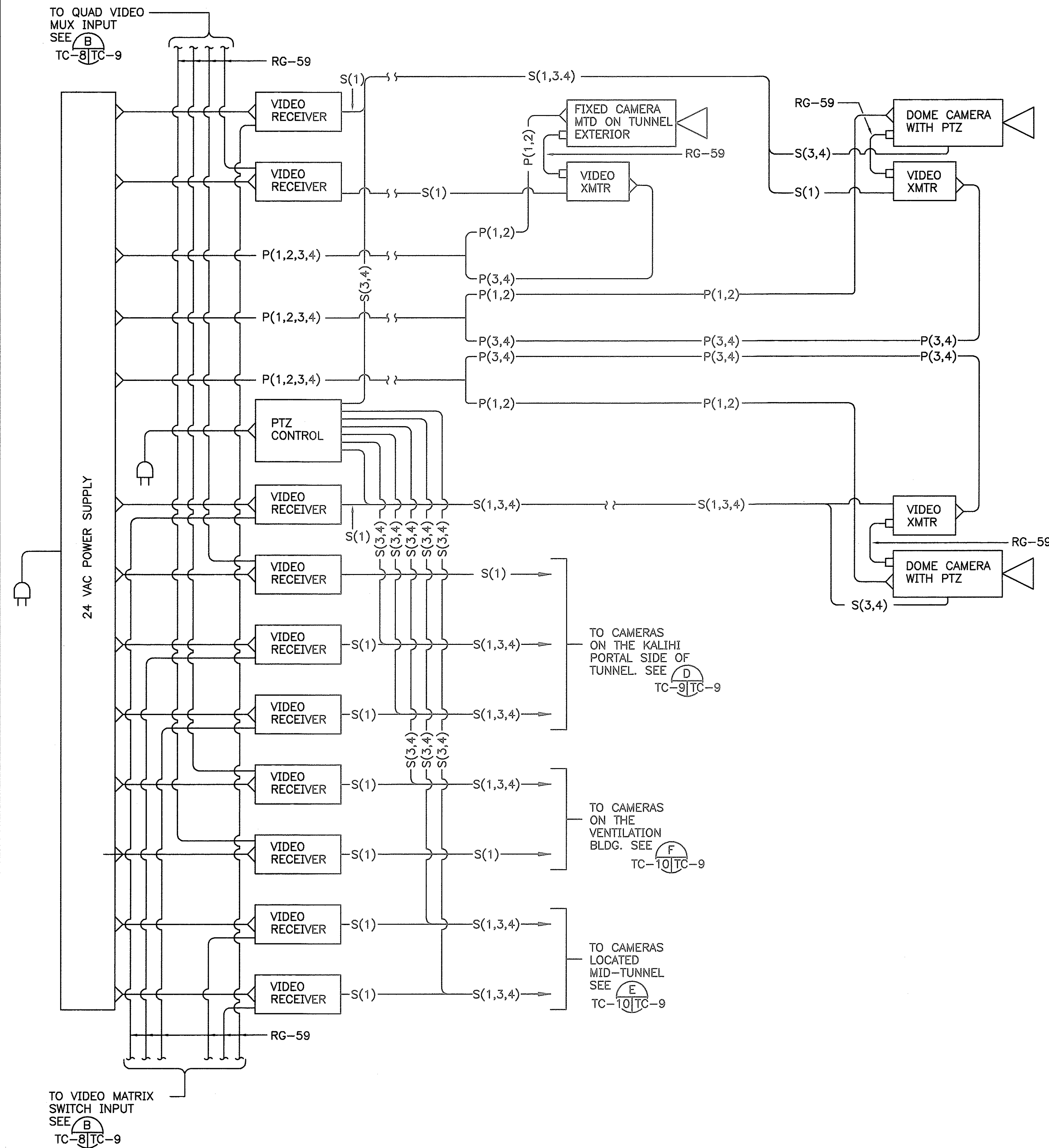
(B) SYSTEM SERVER SCHEMATIC DIAGRAM
 TC-9, TC-13, TC-8 SCALE: NONE



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 Signature: *Melvin H. Yokota*
 LICENSED PROFESSIONAL ENGINEER
 No. 4156-E
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SYSTEM SERVER
SCHEMATIC DIAGRAM
 WILSON TUNNEL IMPROVEMENTS
 SCADA UPGRADE
 PROJECT NO. HWY-0-21-98M
 Scale: As Noted Date: JULY 2000
 SHEET No. TC-8 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	71	77



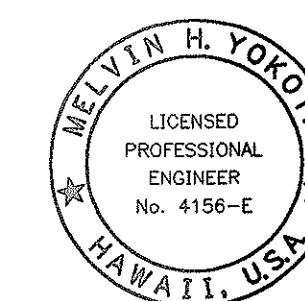
D KALIHI PORTAL CAMERA POWER & SIGNAL SCHEMATIC DIAG
 TC-9 TC-9 SCALE: NONE

- P(1,2,3,4) 4-PAIR UTP CABLE DEDICATED FOR POWER WHERE:
 1,2,3,4 = PAIR NUMBERS 1,2,3 & 4
- P(W,X) 2-PAIR OF 4-PAIR UTP CABLE DEDICATED FOR POWER WHERE:
 W,X = PAIR NUMBERS USED
- S(1,3,4) 3-PAIR OF 4-PAIR CAT-5 UTP CABLE DEDICATED FOR SIGNAL AND CNTL WHERE:
 1 = PAIR NO. USED FOR SIGNAL
 3,4 = PAIR NOS. USED FOR PTZ CNTL USING RS-422 INTERFACE
- S(3,4) 2-PAIR OF 4-PAIR CAT-5 UTP CABLE DEDICATED FOR SIGNAL AND CNTL WHERE:
 3,4 = PAIR NOS. USED FOR PTZ CNTL USING RS-422 INTERFACE
- S(1) 1-PAIR OF 4-PAIR CAT-5 UTP CABLE DEDICATED FOR SIGNAL AND CNTL WHERE:
 1 = PAIR NO. USED FOR SIGNAL

VIDEO XMTR VIDEO TRANSMITTER SHALL CONVERT THE VIDEO SIGNAL FROM COAXIAL MEDIA (RG-59) TO UTP MEDIA (CAT-5) AND SHALL TRANSMIT SIGNAL TAP TO 4000 FEET TO VIDEO RECEIVER CARD LOCATED AT THE KANEHOE PORTAL ROOM.

DESIGNED BY	DATE
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APPROVED BY	
NOTED BY	
REVIEWED BY	
REVISION	
NO.	

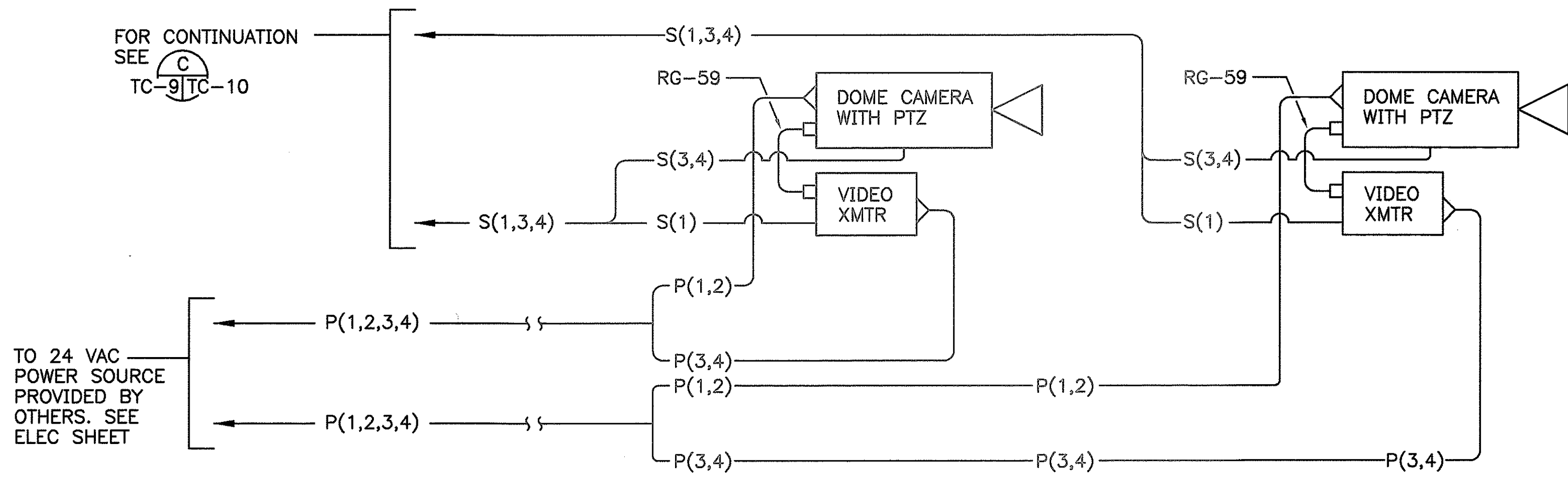
C KANEHOE PORTAL CAMERA POWER & SIGNAL SCHEMATIC DIAG
 TC-8, TC-9 TC-9 TC-10 SCALE: NONE



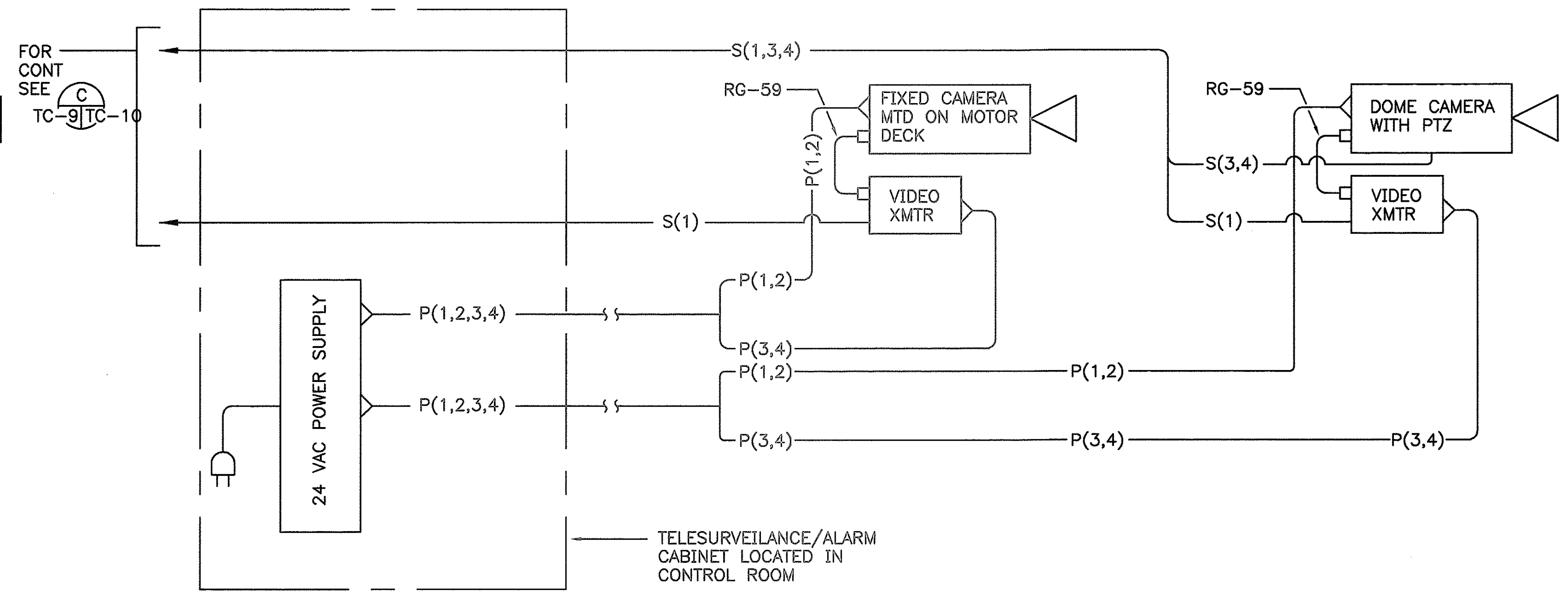
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
CAMERA POWER AND SIGNAL SCHEMATIC DIAG
 WILSON TUNNEL IMPROVEMENTS
 SCADA UPGRADE
 PROJECT NO. HWY-0-21-98M
 Scale: As Noted Date: JULY 2000
 SHEET No. TC-9 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	72	77



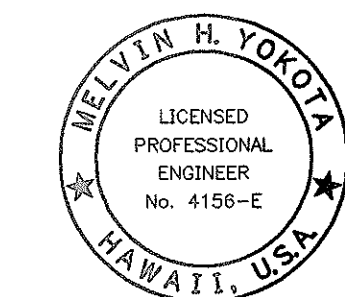
E MID TUNNEL CAMERA POWER & SIGNAL SCHEMATIC DIAG
TC-9 TC-10 SCALE: NONE



F VENTILATION BLDG CAMERA POWER & SIGNAL SCHEMATIC DIAG
TC-9 TC-10 SCALE: NONE

- P(1,2,3,4) 4--PAIR UTP CABLE DEDICATED FOR POWER WHERE:
1,2,3,4 = PAIR NUMBERS 1,2,3 & 4
- P(W,X) 2--PAIR OF 4--PAIR UTP CABLE DEDICATED FOR POWER WHERE:
W,X = PAIR NUMBERS USED
- S(1,3,4) 3--PAIR OF 4--PAIR UTP CABLE DEDICATED FOR SIGNAL AND CONTROL WHERE:
1 = PAIR NO. USED FOR SIGNAL
3,4 = PAIR NOS. USED FOR PTZ CNTL USING RS-422 INTERFACE
- S(3,4) 2--PAIR OF 4--PAIR UTP CABLE DEDICATED FOR SIGNAL AND CNTL WHERE:
3,4 = PAIR NOS. USED FOR PTZ CNTL USING RS-422 INTERFACE
- S(1) 1--PAIR OF 4--PAIR UTP CABLE DEDICATED FOR SIGNAL AND CNTL WHERE:
1 = PAIR NO. USED FOR SIGNAL

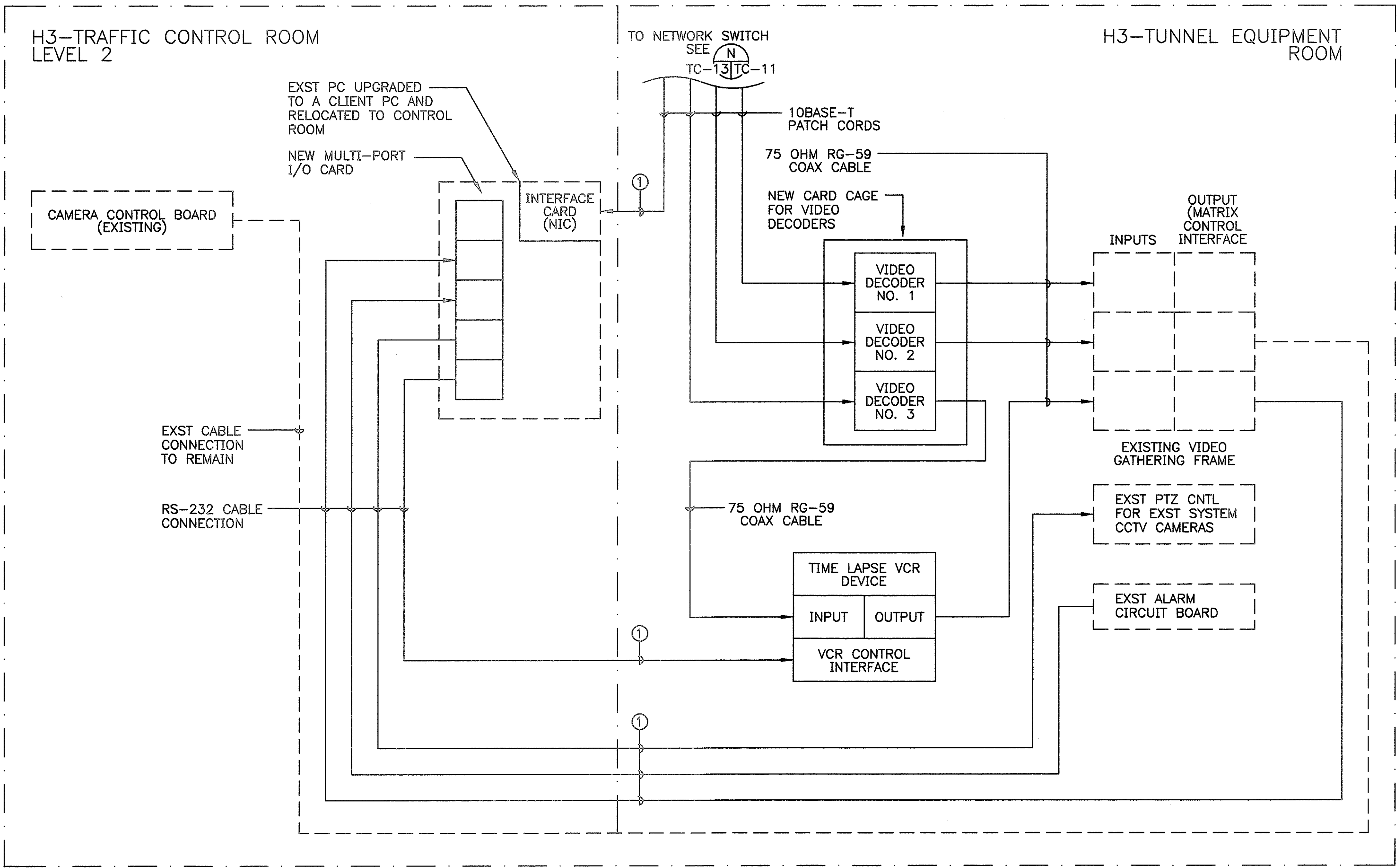
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
No.	



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HIGHWAYS DIVISION
**CAMERA POWER AND
SIGNAL SCHEMATIC DIAG**
WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000
SHEET No. TC-10 OF TC-15 SHEETS

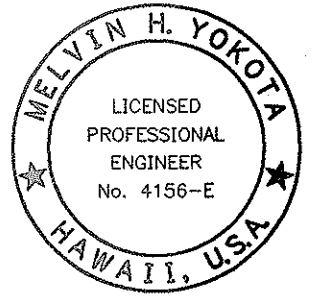
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	73	77



G H3 CONTROL & EQUIPMENT RM SCHEMATIC DIAGRAM
TC-5,TC-13 TC-11 SCALE: NONE

- NOTES
- ① ROUTE WIRING FROM EQUIPMENT RM TO CONTROL RM VIA EXST CHASE BETWEEN FLOORS AND RACEWAY BENEATH CONTROL RM RAISED FLOOR. MODIFY FLOOR TILE BENEATH NEW LOCATION OF SERVER (AS REQUIRED) TO PROVIDE ACCESS FOR WIRES TO SERVER.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL FILED	
NO.	



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Melvin H. Yokota
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

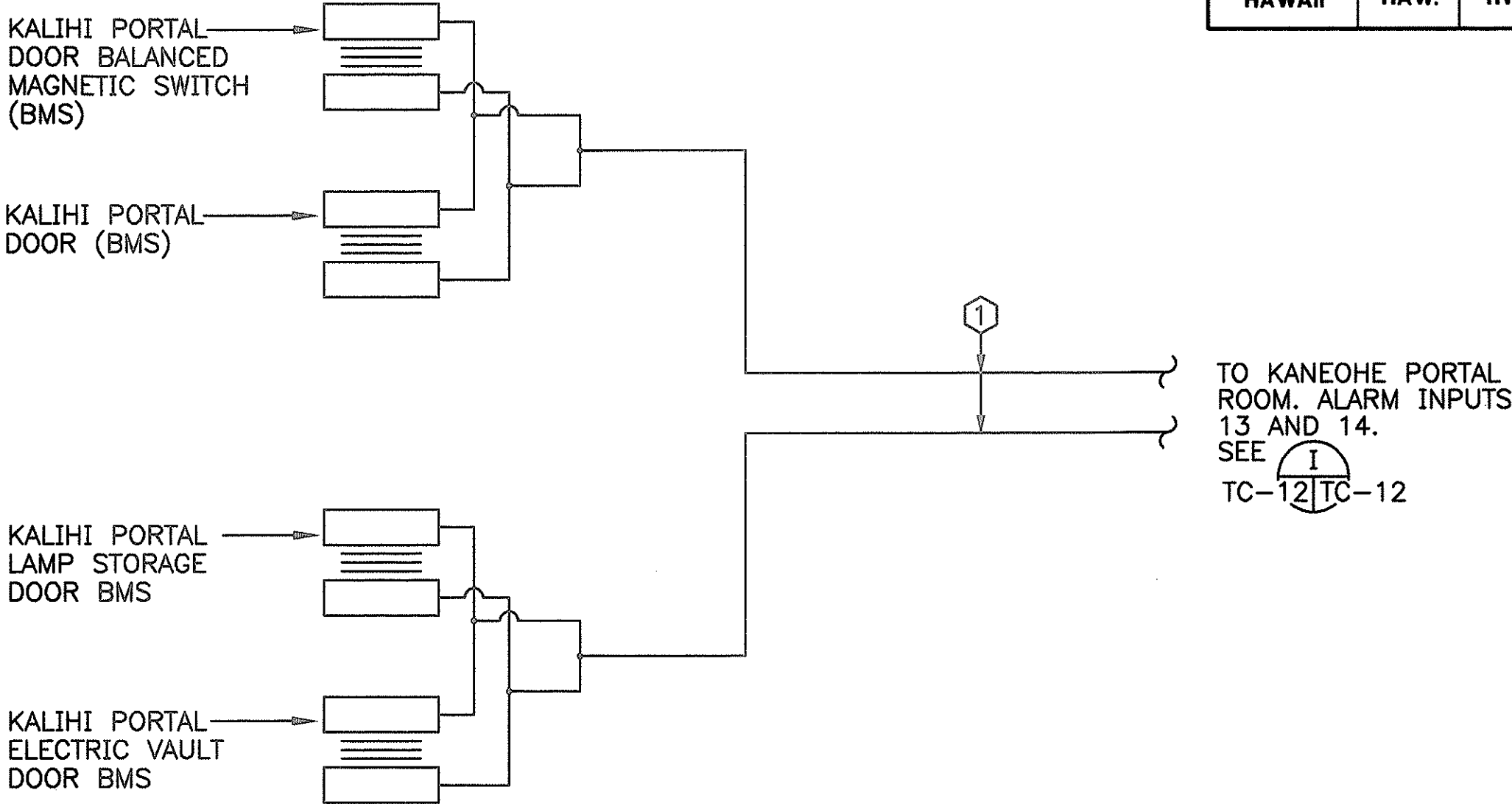
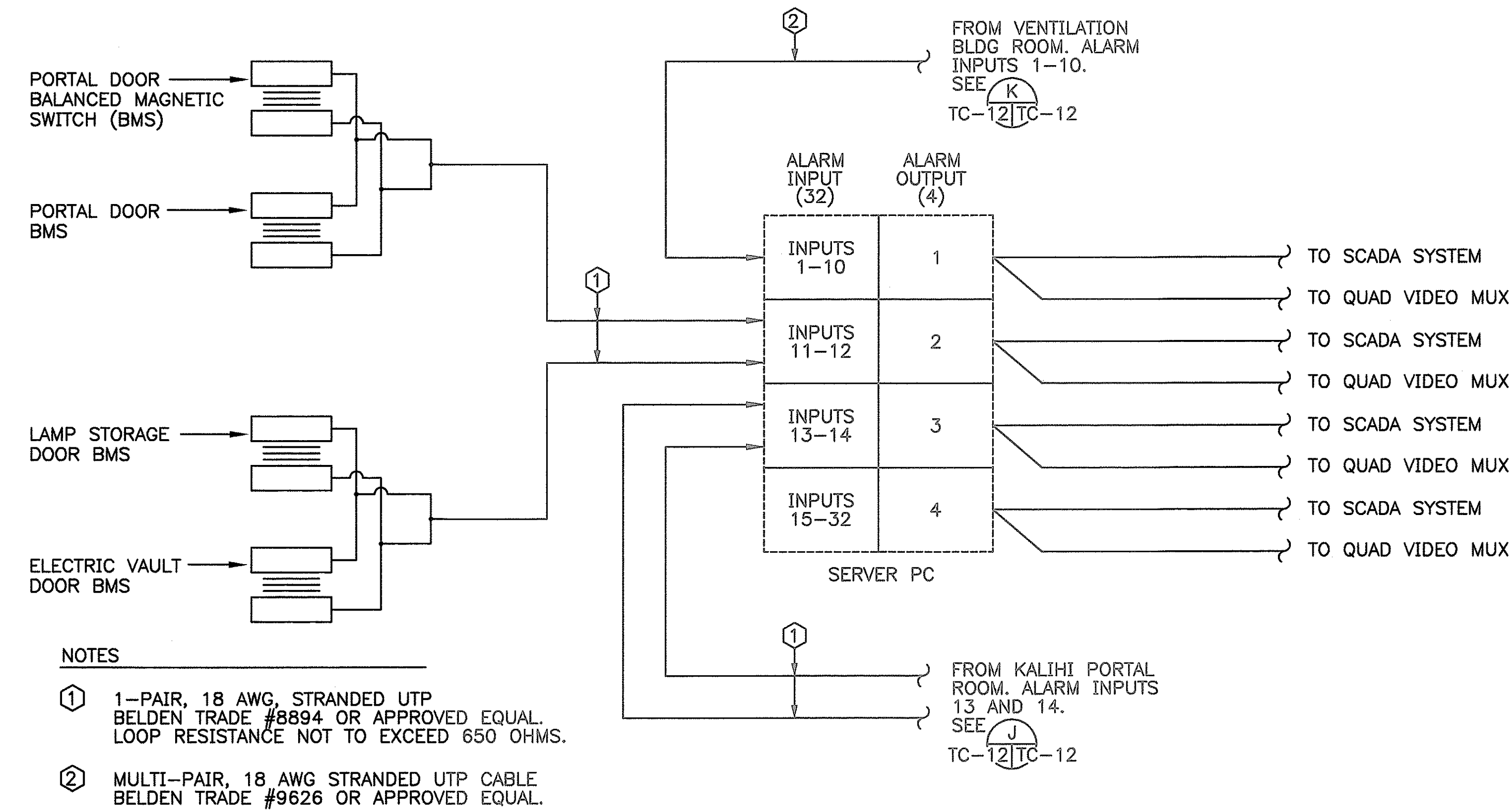
H3 CTRL & EQPT RM
SCHEMATIC DIAGRAM & DTL

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE

PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

SHEET No. TC-11 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	74	77



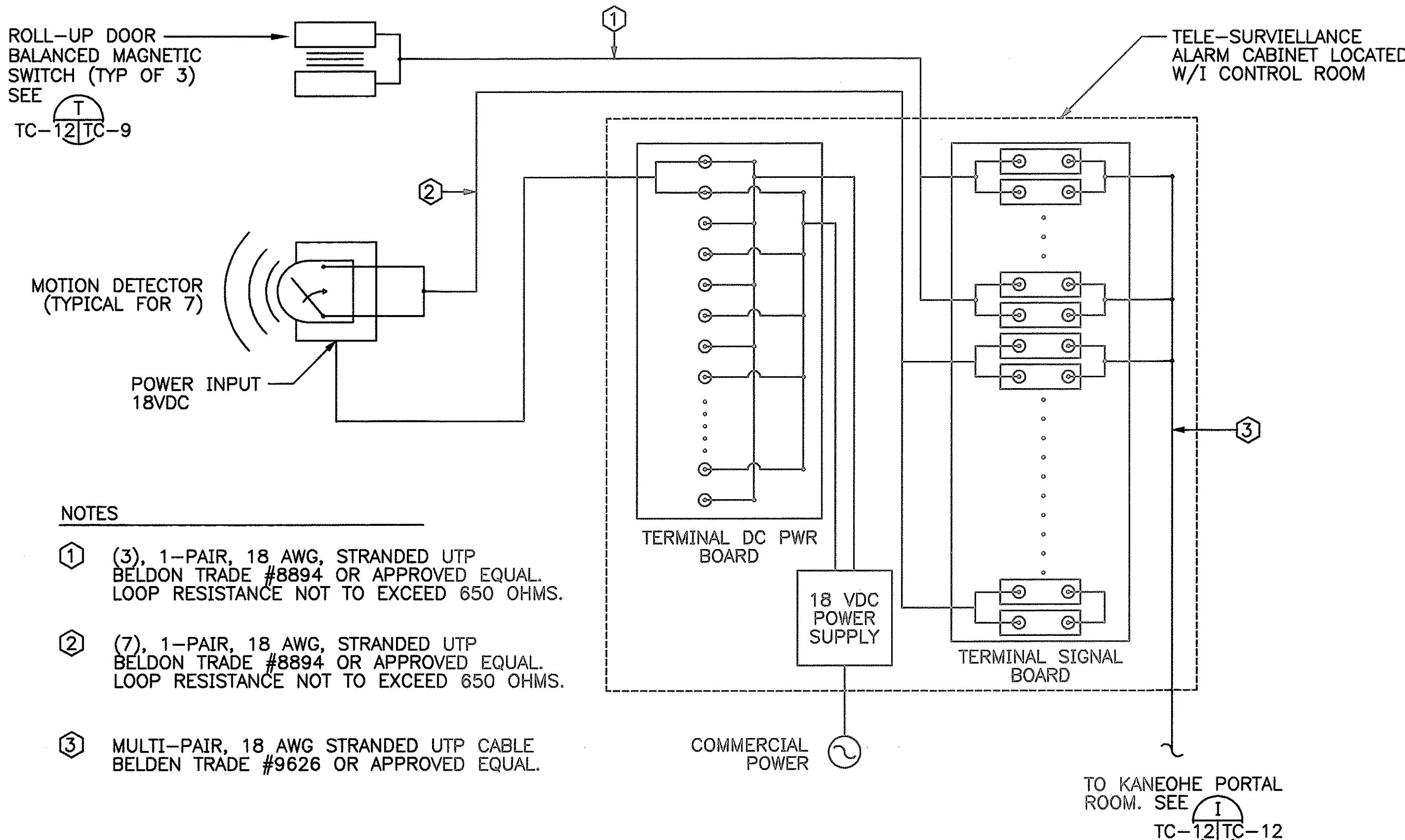
NOTES

1-PAIR, 18 AWG, STRANDED UTP
BELDEN TRADE #8894 OR APPROVED EQUAL.
LOOP RESISTANCE NOT TO EXCEED 650 OHMS.

MULTI-PAIR, 18 AWG STRANDED UTP CABLE
BELDEN TRADE #9626 OR APPROVED EQUAL.

TC-6,TC-8,TC-12 TC-12 KANEOHE PORTAL ALARM INPUT/OUTPUT SCHEMATIC DIAG SCALE: NONE

TC-6,TC-12 TC-12 KALIHI PORTAL ALARM INPUT/OUTPUT SCHEMATIC DIAG SCALE: NONE



NOTES

(3), 1-PAIR, 18 AWG, STRANDED UTP
BELDEN TRADE #8894 OR APPROVED EQUAL.
LOOP RESISTANCE NOT TO EXCEED 650 OHMS.

(7), 1-PAIR, 18 AWG, STRANDED UTP
BELDEN TRADE #8894 OR APPROVED EQUAL.
LOOP RESISTANCE NOT TO EXCEED 650 OHMS.

MULTI-PAIR, 18 AWG STRANDED UTP CABLE
BELDEN TRADE #9626 OR APPROVED EQUAL.

TC-12 TC-12 VENTILATION BLDDG ALARM INPUT/OUTPUT SCHEMATIC DIAG SCALE: NONE



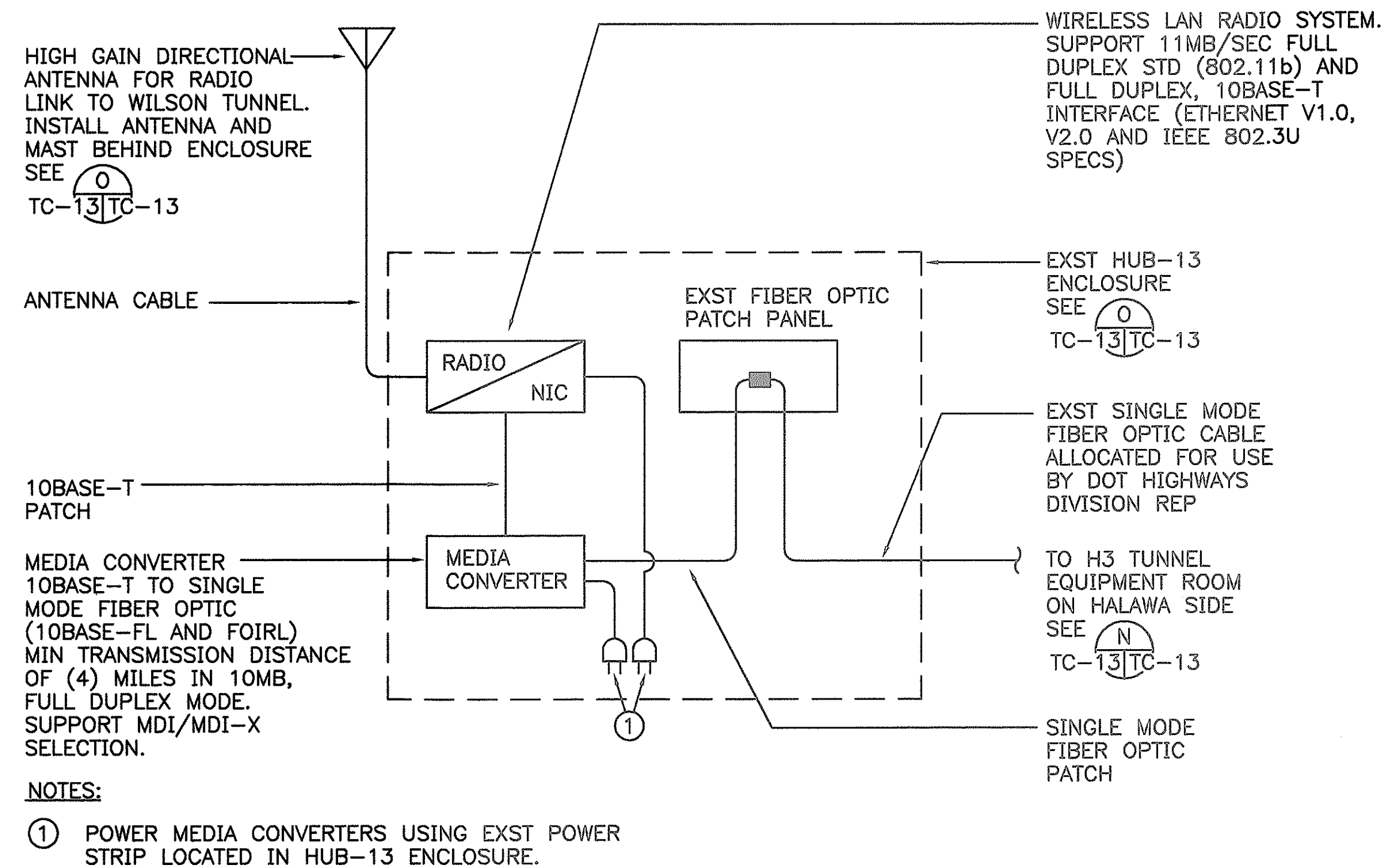
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Signature

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

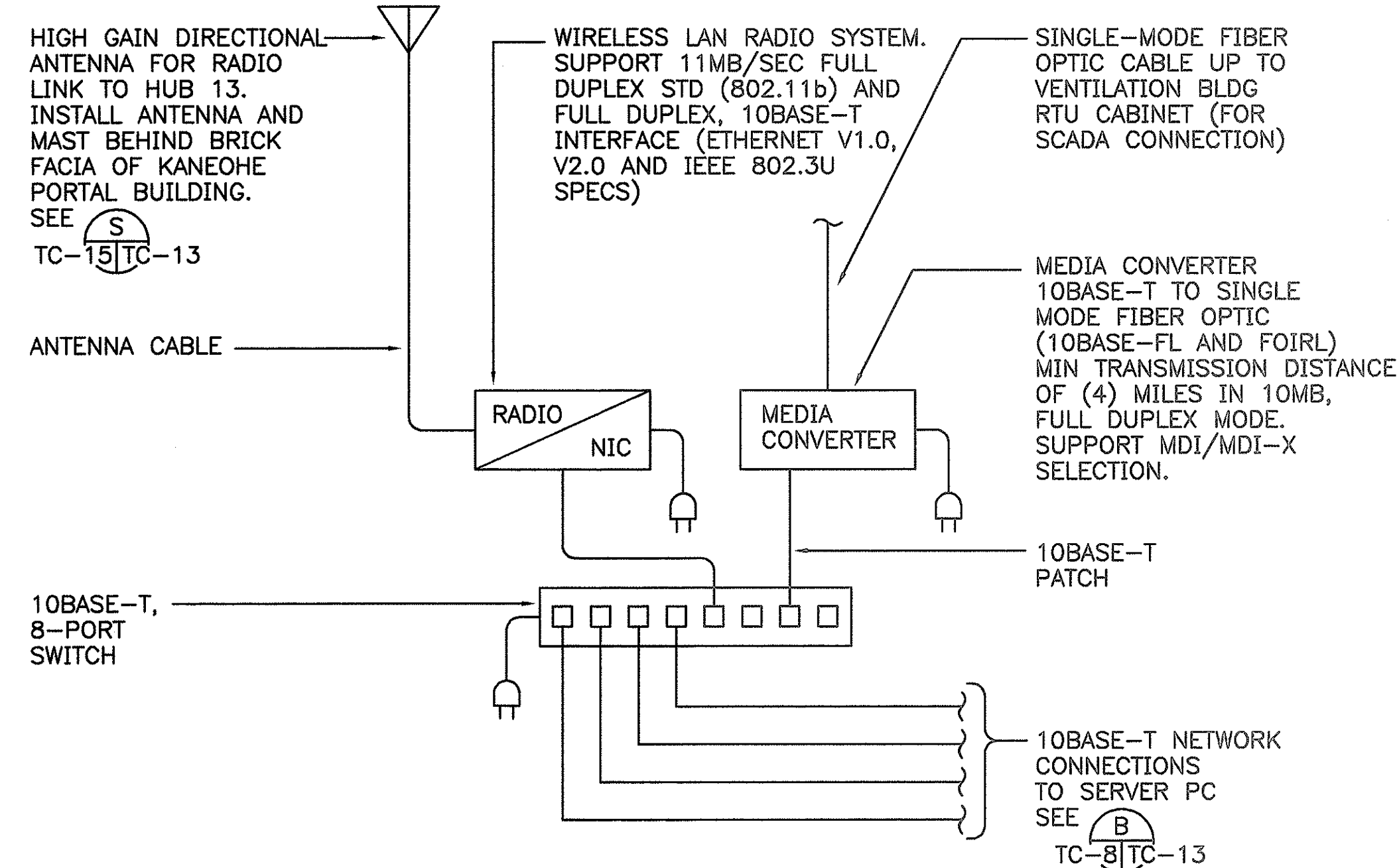
**ALARM INPUT/OUTPUT
SCHEMATIC DIAGRAMS**

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000
SHEET No. TC-12 OF TC-15 SHEETS

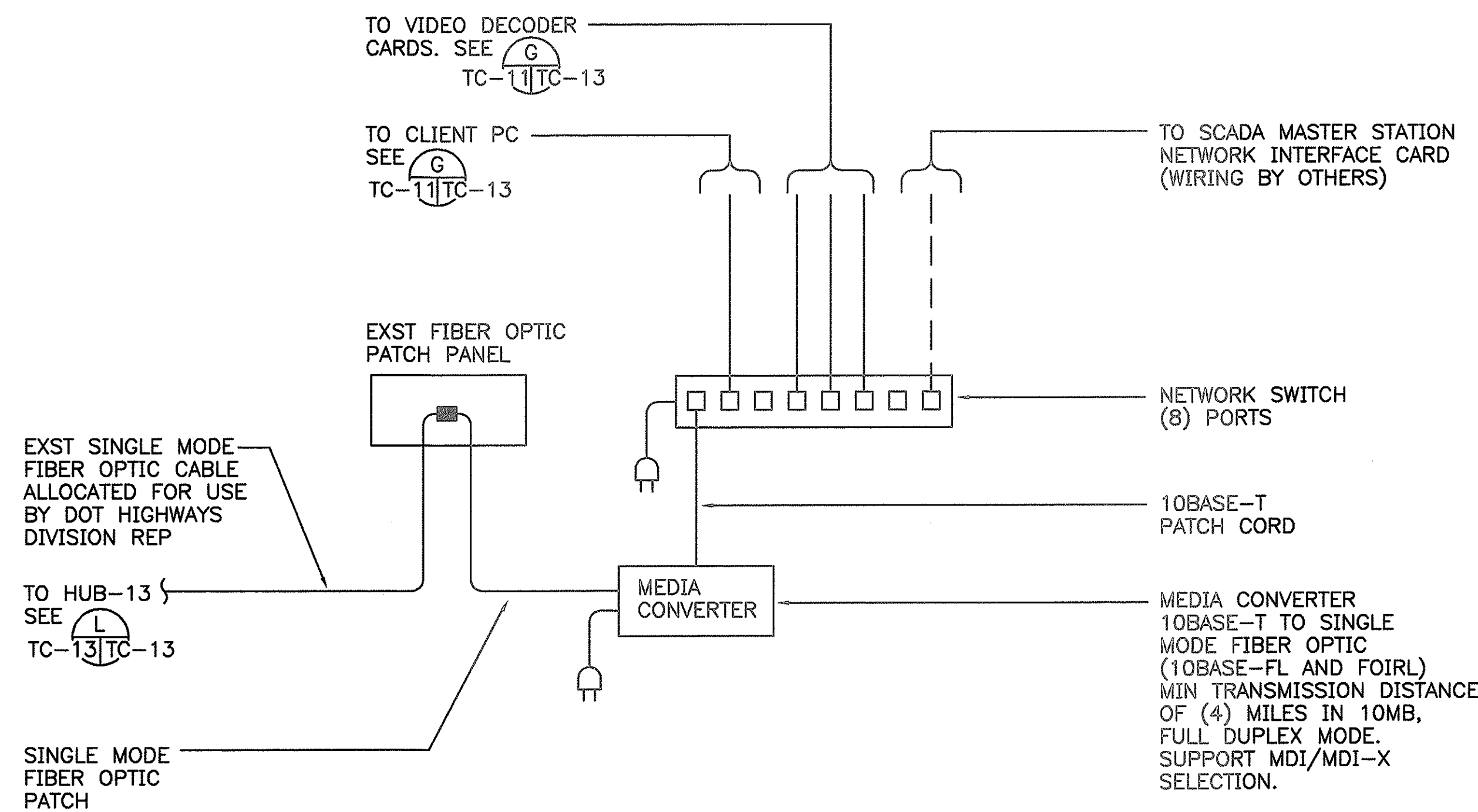
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	75	77



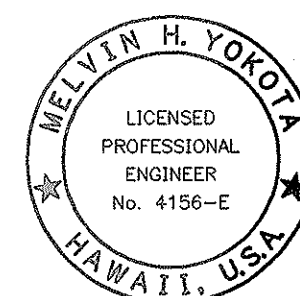
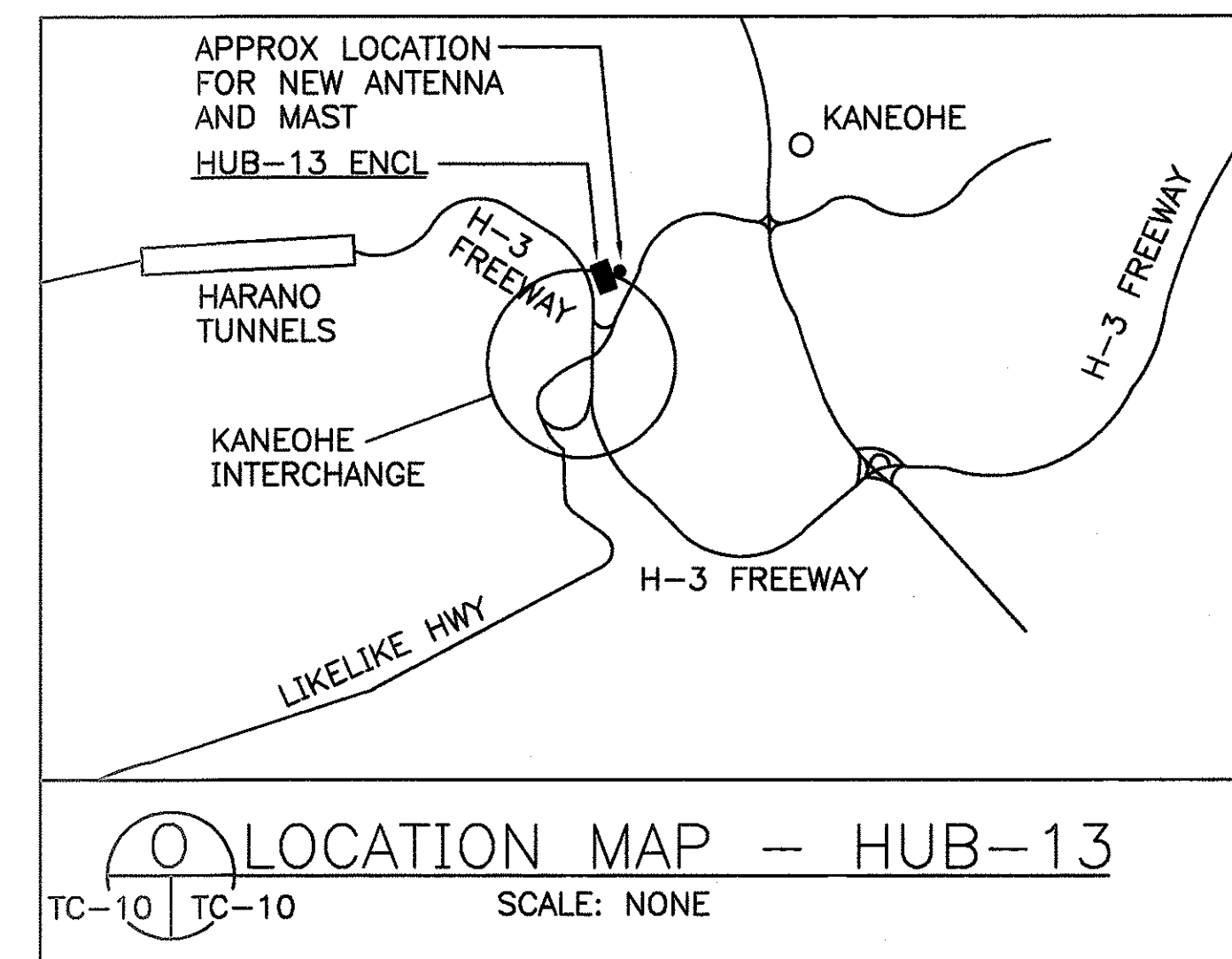
L HUB 13 RADIO LINK SCHEMATIC DIAG
TC-13 TC-13 SCALE: NONE



M KANEHOE PORTAL RADIO LINK SCHEMATIC DIAG
TC-8 TC-13 SCALE: NONE



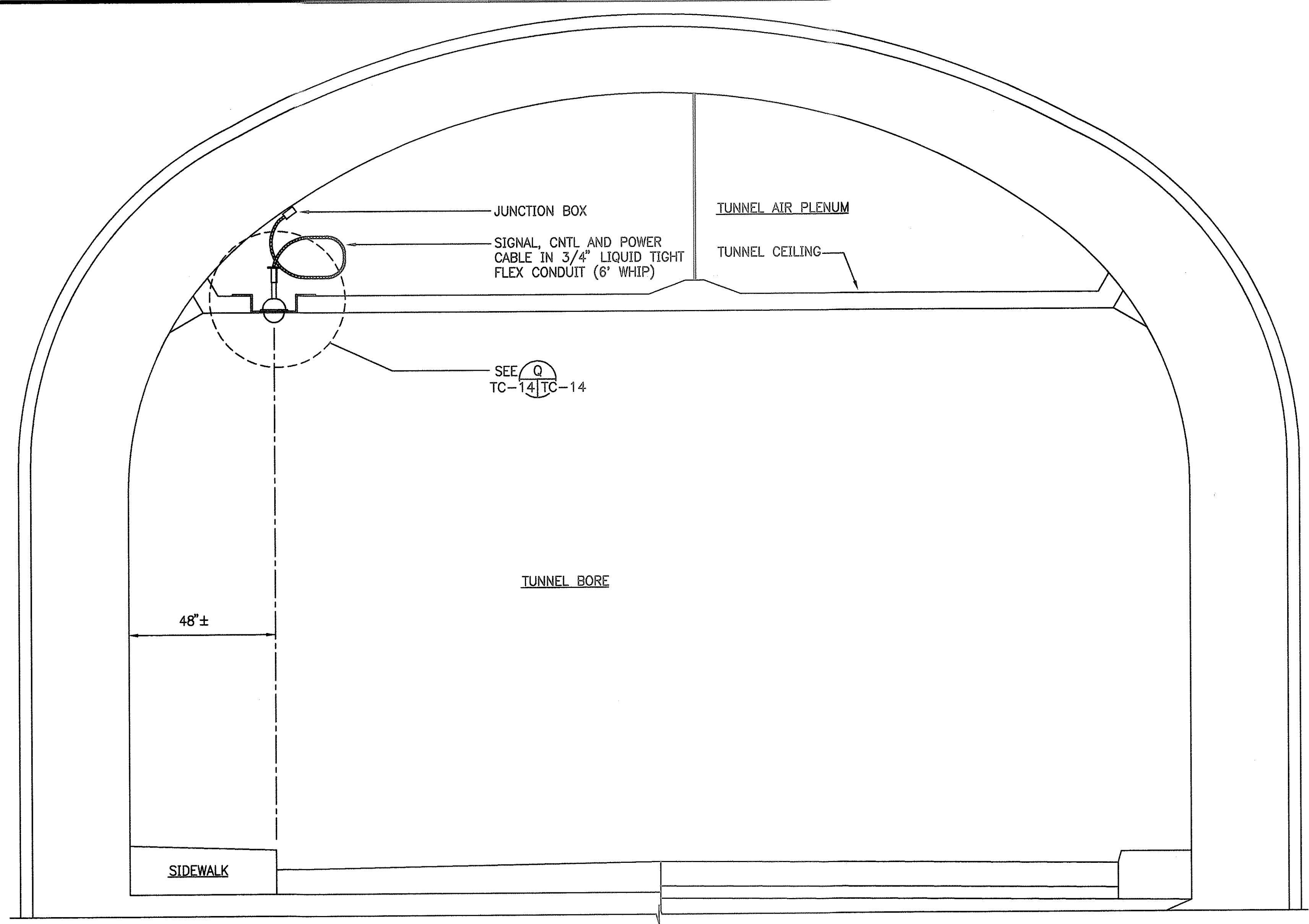
N H-3 TUNNEL EQPT RM RADIO LINK SCHEMATIC DIAG
TC-11, TC-13 TC-13 SCALE: NONE



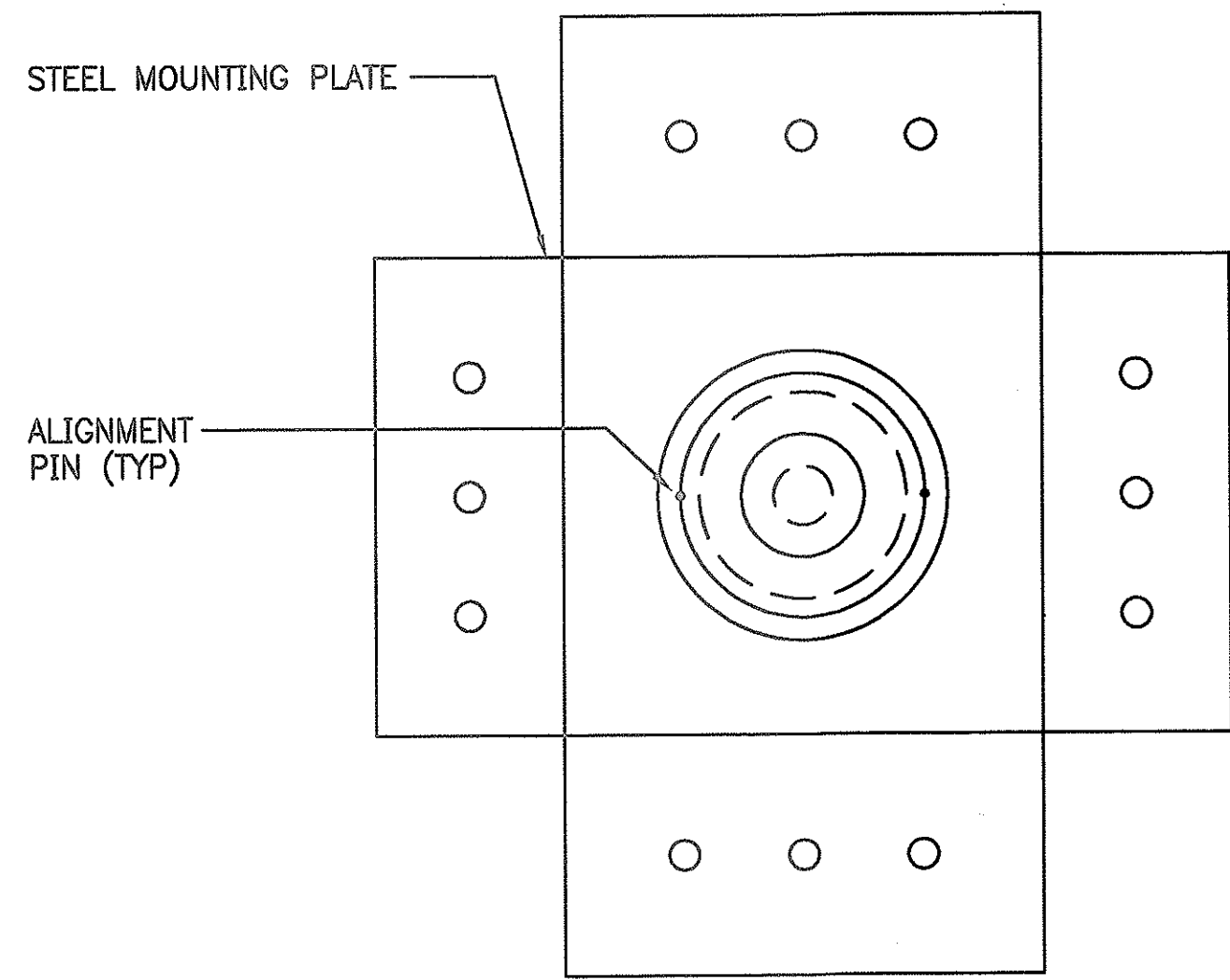
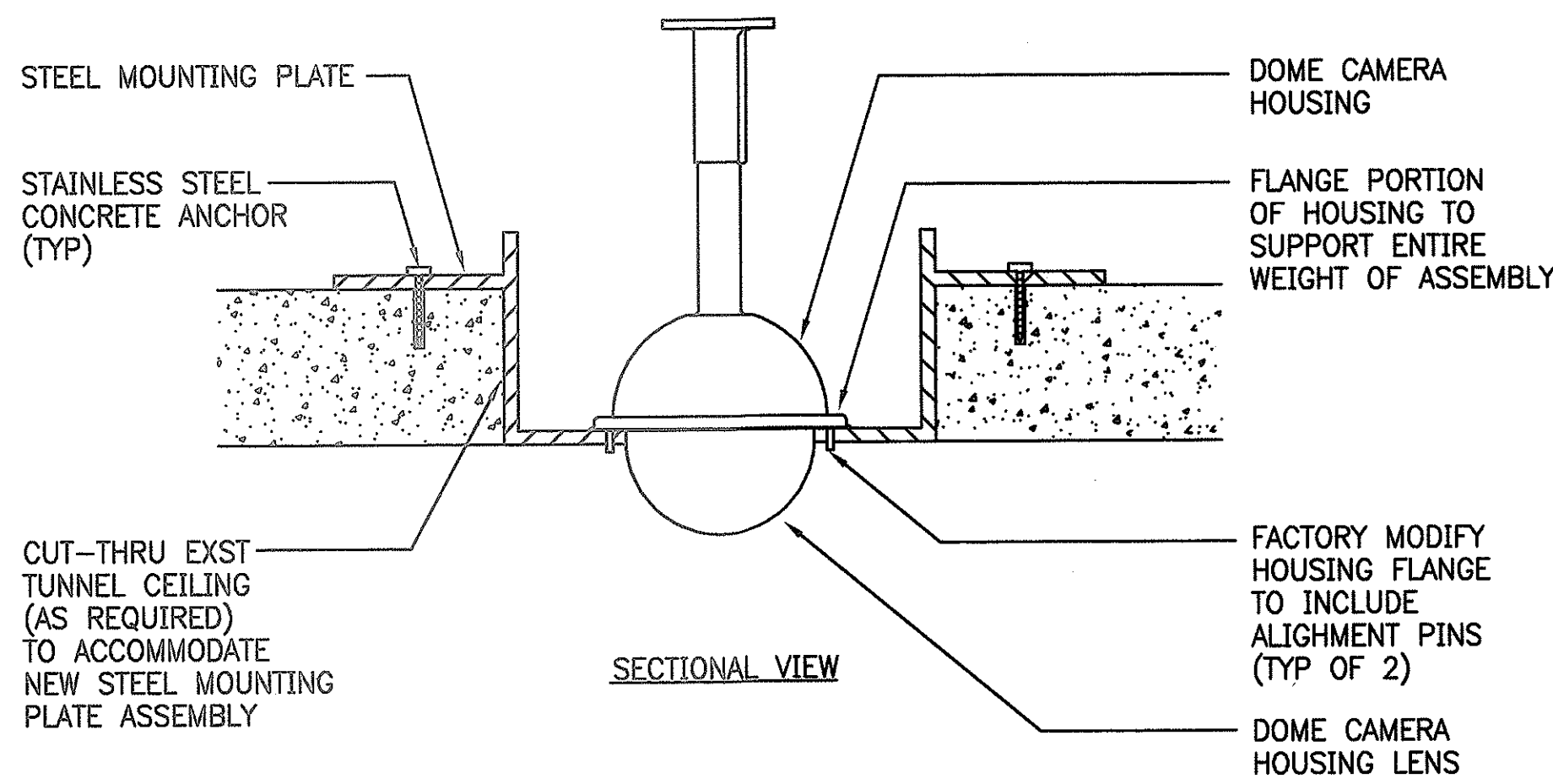
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**RADIO LINK
DETAILS**
WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE
PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000
SHEET No. TC-13 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	76	77



P SECTION
TC-4 TC-14 SCALE: NONE



TOP VIEW

Q DOME CAMERA MOUNTING CONCEPT
TC-14 TC-14 SCALE: NONE

NOTE: AS PART OF THE PROJECT SUBMITTAL PROCESS, CONTRACTOR TO FURNISH FOR REVIEW A DETAILED, TO-SCALE, SHOP DRAWING OF MOUNTING PLATE FOR DOME CAMERAS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
NO.	



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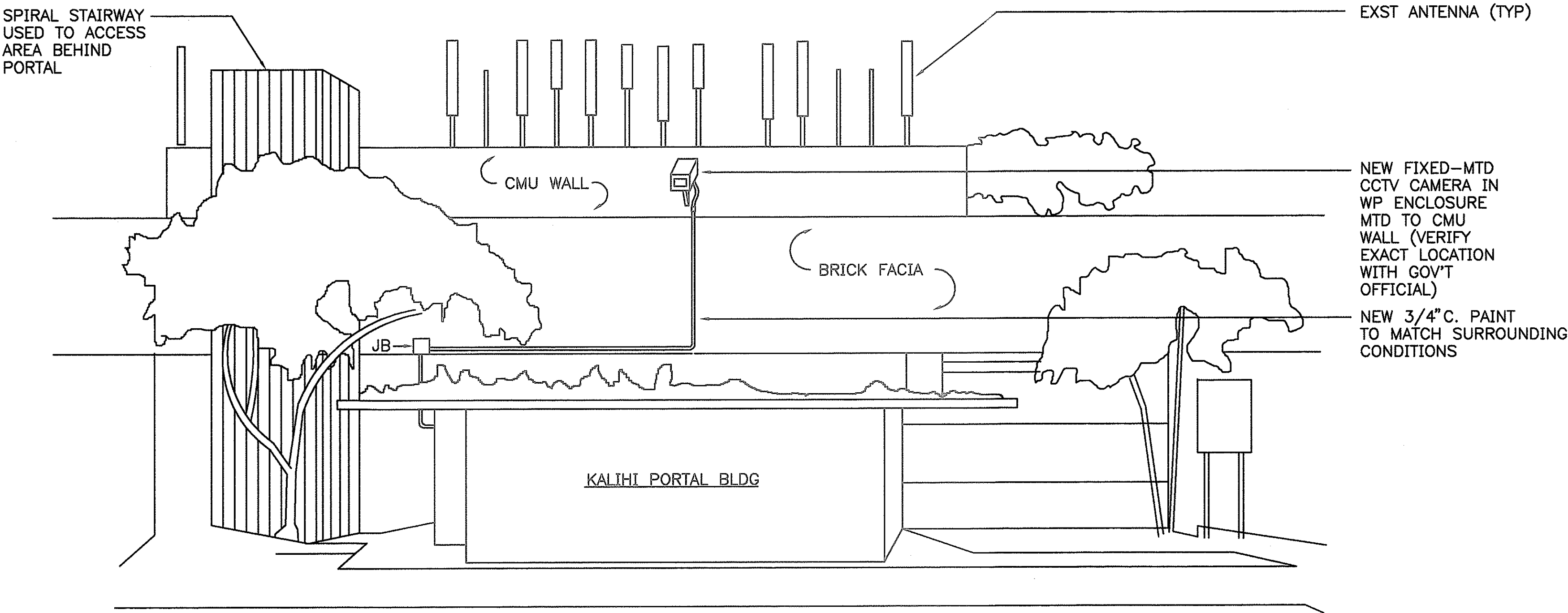
SECTION & DETAILS

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE

PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

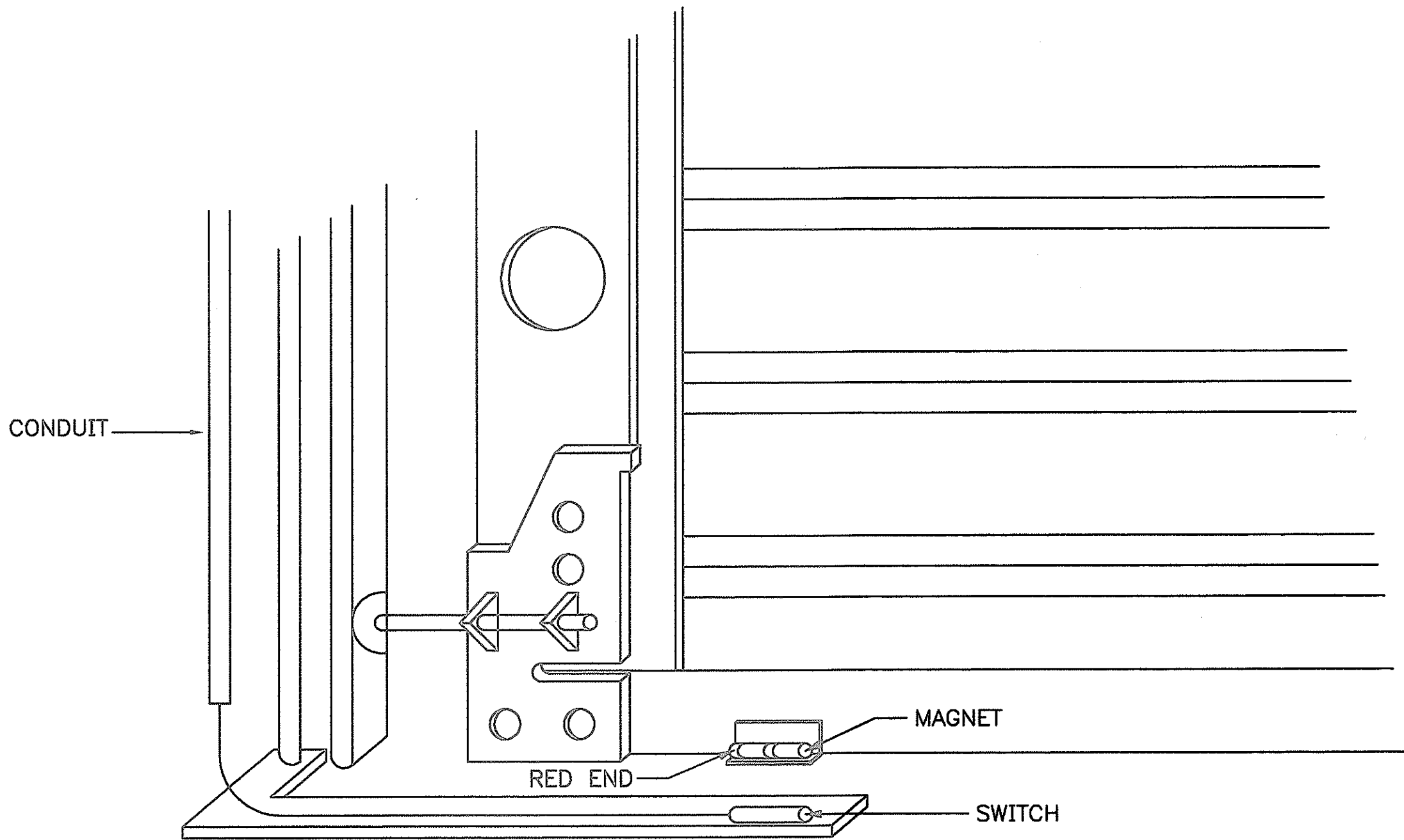
SHEET No. TC-14 OF TC-15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-21-98M	2001	77	77

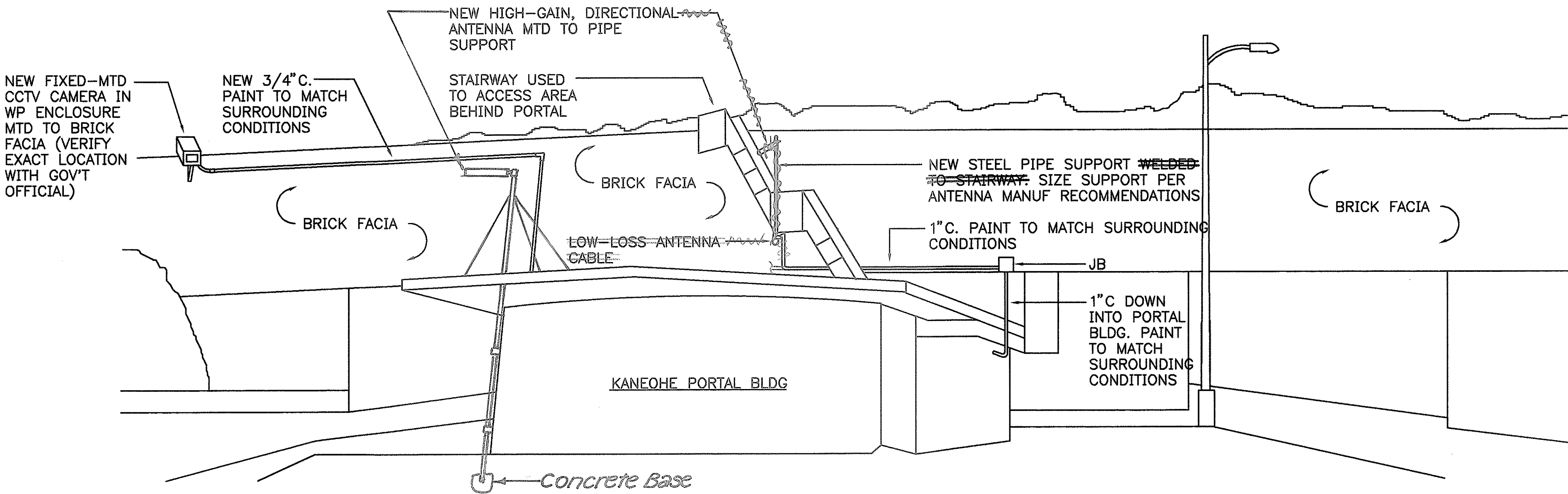


NOTES:
1. ALL EXTERIOR-MOUNTED CONDUIT SHALL BE THE PVC-COATED GRC TYPE.

R KALIHI PORTAL ELEVATION
TC-4,TC-6 TC-15 SCALE: NONE



T ROLL-UP DOOR MAGNETIC SWITCH DETAIL
TC-2,TC-12 TC-15 SCALE: NONE



NOTES:
1. ALL EXTERIOR-MOUNTED CONDUIT SHALL BE THE PVC-COATED GRC TYPE.

S KANEOHE PORTAL ELEVATION
TC-4,TC-6,TC-13 TC-12 SCALE: NONE

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



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Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KALIHI AND KANEOHE
PORTAL ELEVATIONS**

WILSON TUNNEL IMPROVEMENTS
SCADA UPGRADE

PROJECT NO. HWY-0-21-98M
Scale: As Noted Date: JULY 2000

SHEET No. TC-15 OF TC-15 SHEETS

"AS-BUILT"