

FISCAL YEAR FED. AID PROJ. NO. SHEET TOTAL SHEETS 1988 22 HAWAII HAW. I-H3-I(36) 25

- shown is approximate. The Engineer will direct the Contractor as to the line and grade of the Road. Hence, the modifications to the ground system shown on the plan give only a general idea of the location of wires.
- 2. The Contractor shall schedule, and shall arrange with the Commanding Officer at the Omega Station the arrival & departure of workmen, construction material, & equipment; all subject to the Coast Guard's requirements in this matter.
- 3. The Contractor shall install the additive radial ground system shown on
- 4. Phase I is additive radial ground system. Phase 2 is all work required to accommodate the Access Road and future viaduct footing construction.
- 5. The Contractor may proceed with any Haiku Access Road construction work that does not require cutting of existing ground radials or subjecting them to accidental damage from the use of heavy machinery, clearing
- 6. All excavating, clearing, grading, erosion control measures and other Access Road construction works which may advertently or inadvertently result in removal or modification to the existing ground system conductors shall be limited to a maximum area of 50,000 square feet. Engineer who may approve work areas of larger size if the performance of the antenna system will not be significantly reduced thereby.
- 7. The Contractor shall plan his work on the Access Road in such a manner that all modifications to the ground system shall be completed in a defined work area before
- 8. All existing radials, buses and ground rods within the area shown as Area A' on the plan shall be removed before excavation of the Knoll area. The Contractor shall locate the existing 600'Radius circumferential bus and cut the existing radials approximately 18" outward from the bus. Replacement of radials, buses, & ground rods from Azimuth 47°-00' to Azimuth 78°-00' to be done by Others.
- 9. When performing blasting operations in the proximity of the Coast Guard's OMEGA Transmitter Facility, the Contractor shall exercise extreme caution in the handling and use of explosives and detonation devices. Refueling of gasoline powered engines is prohibited in the proximity of the OMEGA site.

ESTIMATED QUANTITIES FOR OMEGA STATION WORK						
ITEM NO.	ITEMS	UNIT	QUANTITY			
685.01	Modifications to OMEGA Radial Ground System	Lump Sum	See Below			
	#4/0 7 Strand wire or #4/0 Solid Copper Wire #4 Solid Copper Wire #8 Solid Copper Wire Ridge Cable #1/0 Solid Copper Wire Ground Rods		(11,500 L.F.) (4,000 L.F.) (35,000 L.F.) (200 L.F.) (1,000 L.F.) (300 E.A.)			
206.85	Structure Excavation for Ground Radials & Buses	C.Y.	3,000 C.Y.			

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

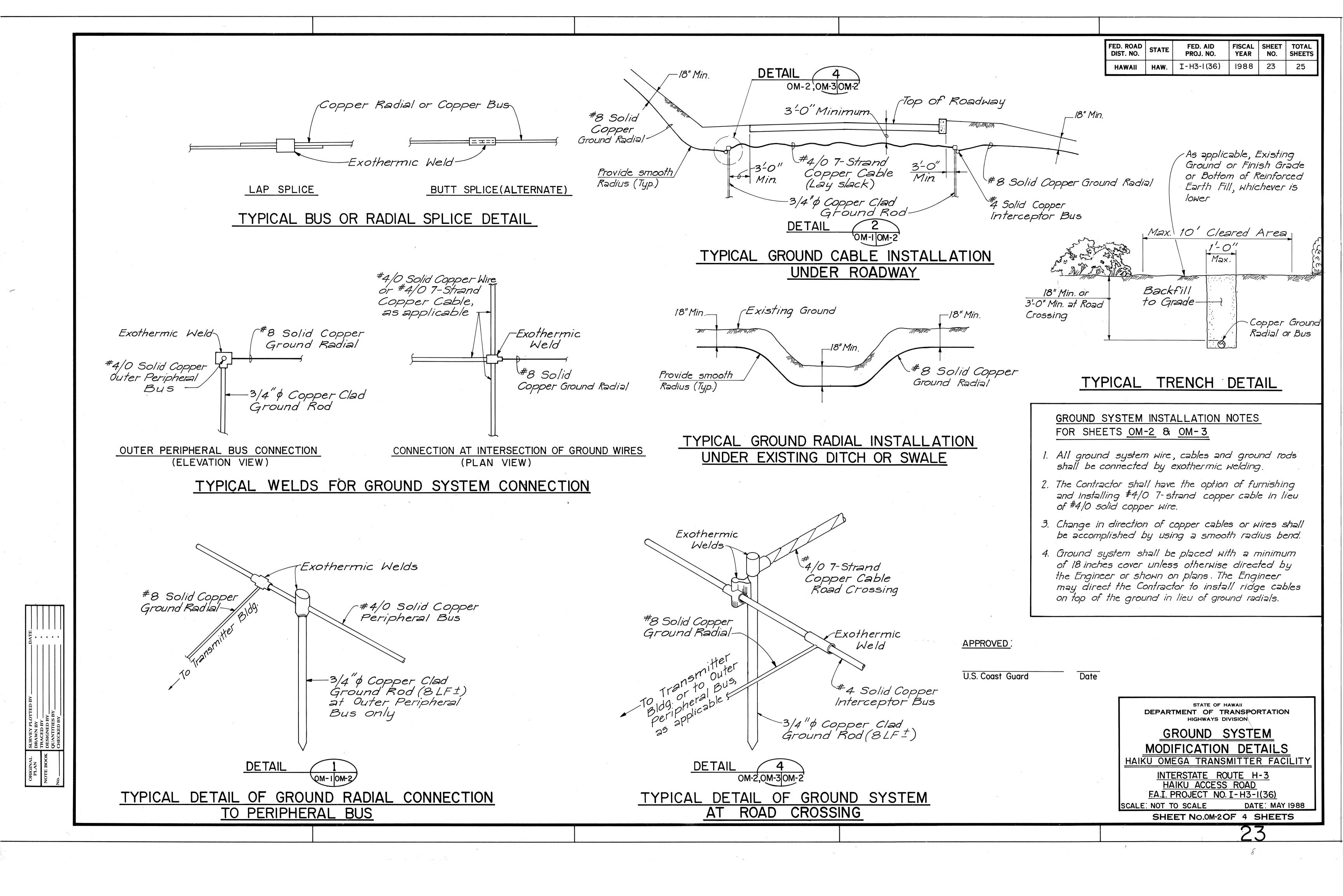
GROUND SYSTEM MODIFICATION PLAN

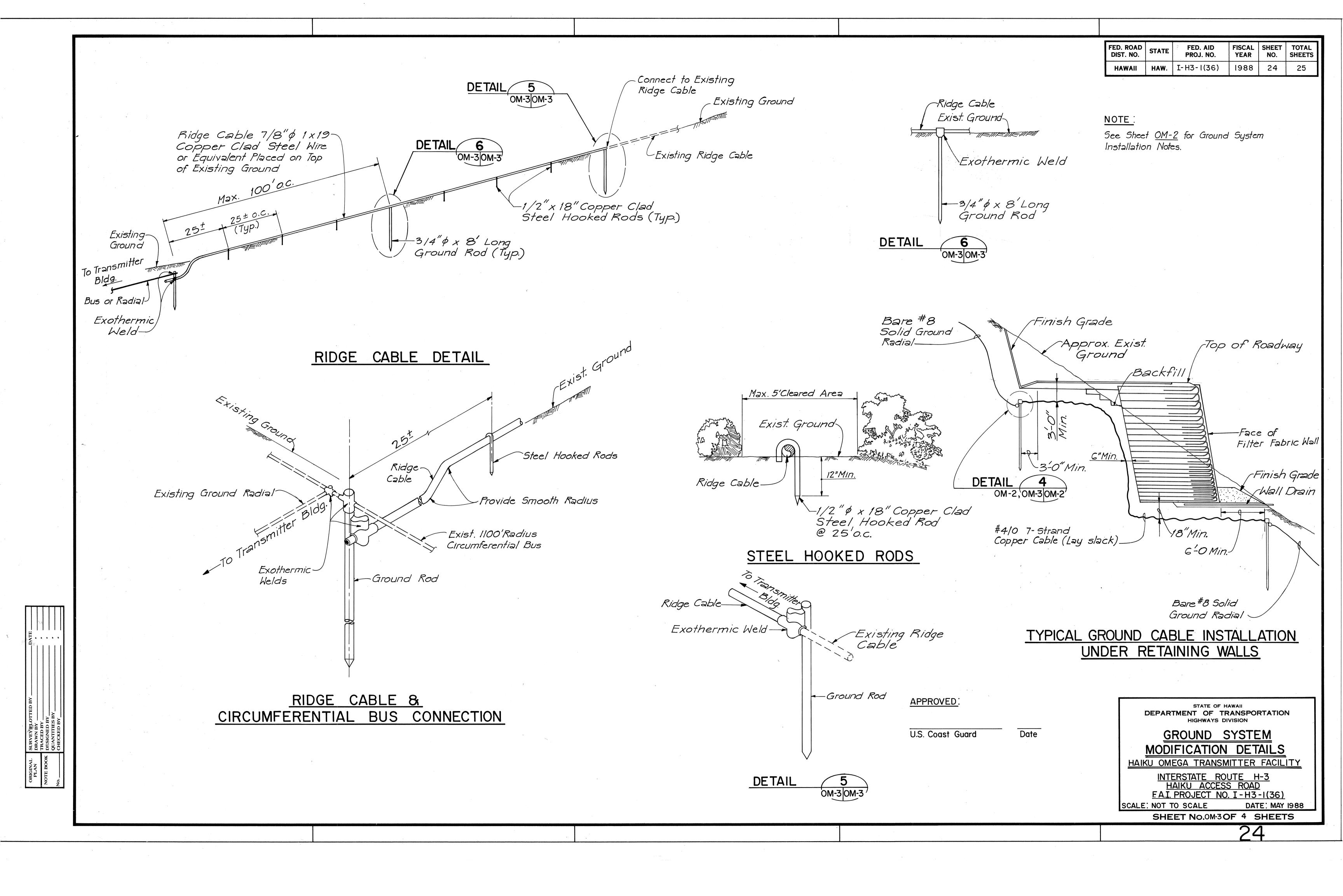
HAIKU OMEGA TRANSMITTER FACILITY

INTERSTATE ROUTE H-3
HAIKU ACCESS ROAD

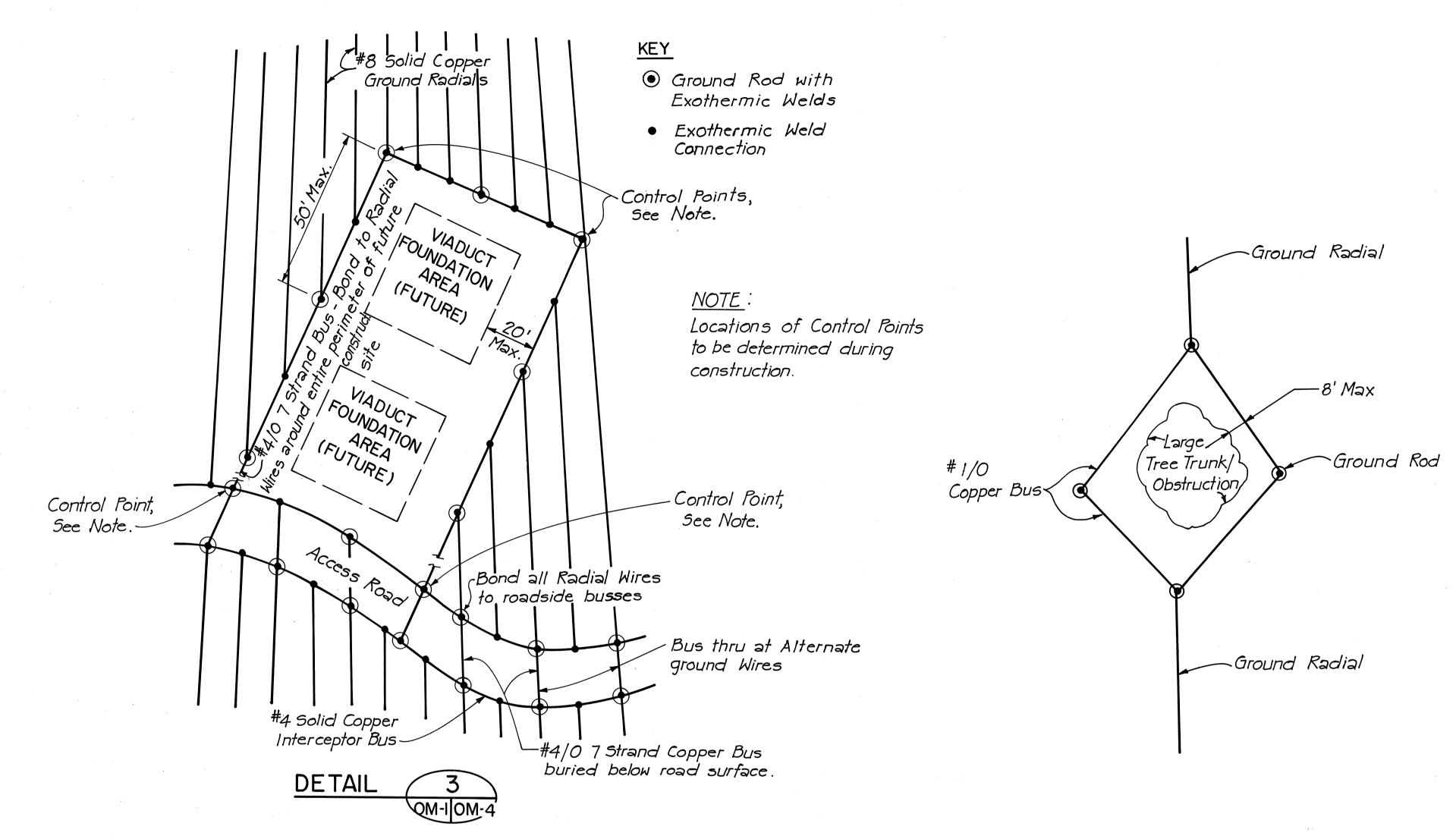
FA.I. PROJECT NO. I-H3-I(36)

DATE: MAY 1988 SCALE: AS SHOWN SHEET No.OM-IOF 4 SHEETS





FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	I-H3-I(36)	1988	25	25



TYPICAL GROUND SYSTEM CONFIGURATION

AROUND PIER FOUNDATION

TYPICAL GROUND SYSTEM CONFIGURATION

AROUND LARGE TREE/OBSTRUCTION

DATE		 			
SURVEY PLOTTED BY		NOTE BOOK DESIGNED BY	QUANTITIES BY	СНЕСКЕД ВУ	
ORIGINAL PLAN		NOTE BOOK		No.	

APPROVED:

U.S. Coast Guard

Date

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GROUND SYSTEM MODIFICATION DETAILS

HAIKU OMEGA TRANSMITTER FACILITY

INTERSTATE ROUTE H-3

HAIKU ACCESS ROAD

FA.I PROJECT NO. I - H3 - I (36)

SCALE: NOT TO SCALE DATE: MAY 1988

SHEET NO.0M-4OF 4 SHEETS