

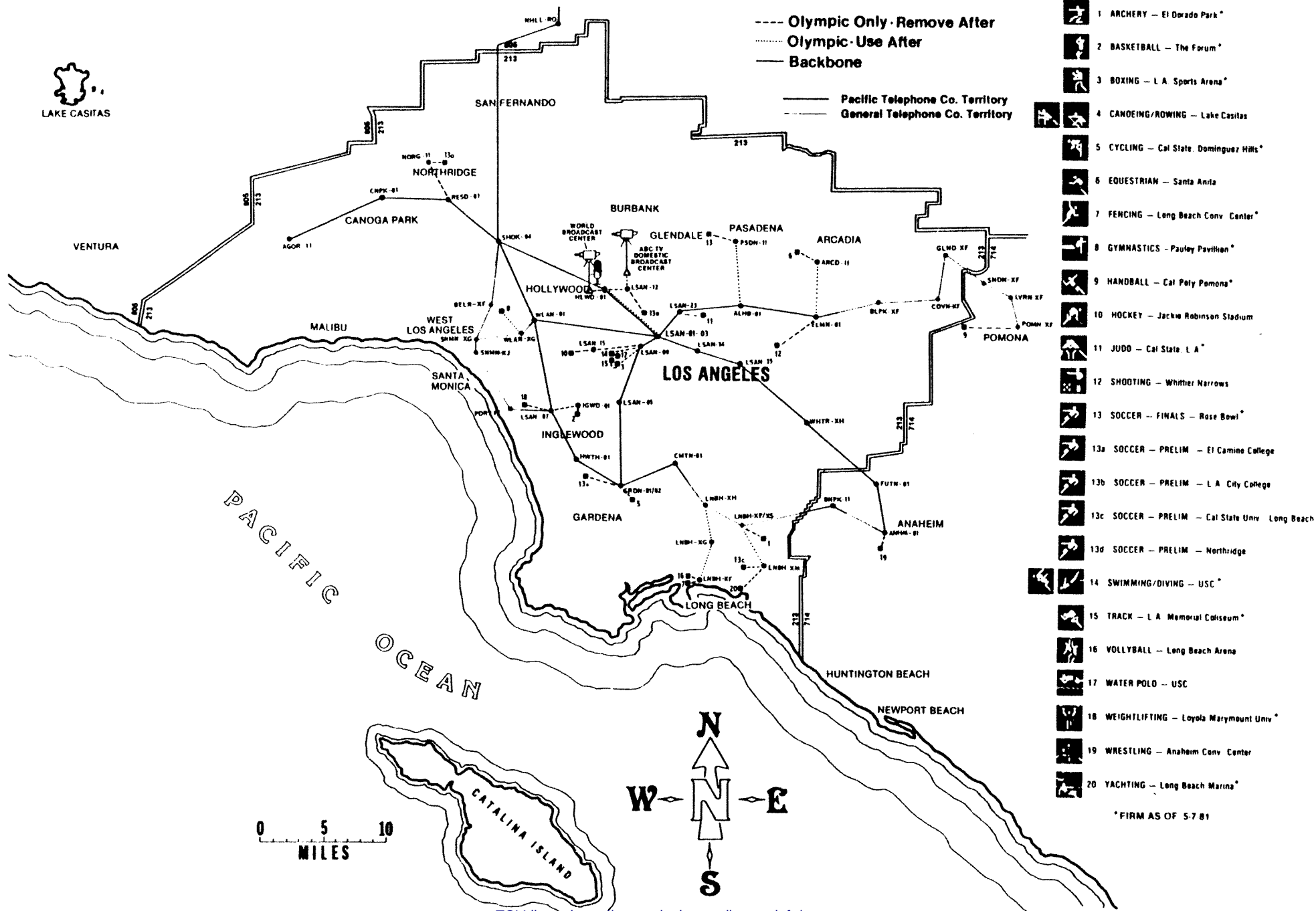
1984 OLYMPIC GAMES

FACILITY TRAILER

Pacific Telephone



THE L.A. OLYMPIC NETWORK



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SHEET NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
3. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.

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1984 OLYMPIC GAMES FACILITY TRAILER		
DRAWN BY E.A.Co.	ENGR. R.L.T.	APP'D. W.C.T.

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GENERAL DESCRIPTION

Terminal equipment rooms of required size at the various Olympic arenas are non-existent. The containerized module which can be equipped and tested in advance, then towed to the event site and connected to the lightwave facility proved to be the best solution for meeting this enormous temporary communication equipment space need.

This drawing, therefore, outlines the requirements for such an equipment module. A standard semi-trailer was selected as the basic structure which is to be modified for this application. These trailers will be factory assembled by Utility Trailer Co. per these and supplementary instructions.

INFORMATION NOTES

101. This drawing, together with supplementary information, covers the engineering design requirements for a transportable facility equipment module to house central office type of equipment to meet the communication service demand from each Olympic venue site during the 1984 Olympic Games.
102. Communication services routed through this vehicle include the following:
 - Local TV broadcast loops
 - Program circuits for the radio broadcaster
 - Data lines
 - PBX services
 - POTS
 - Public service (charge-a-call)
 - Wire photo
 - Telex
 - Private lines
 - Telecopier
103. This drawing does not cover the detail manufacture of the vehicle, but it does define design requirements which are to be provided. Neither does it list all of the required C.O. equipment by location but defines the parameters for variable serving arrangements, (see Table A).
104. All areas not specifically covered by this document shall be in accordance with the standard practice of the supplier.
105. This equipment module will not house any of the station equipment units necessary for POTS and PBX serving arrangements.
106. AC power distribution, electrical outlets, interior & exterior lighting, and air conditioning are an integral part of the trailer.

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STRUCTURAL NOTES

201. The equipment module is to be constructed of non-combustible or fire retardant materials per ASTM E136 and a smoke developed rating not higher than 50 or designated "light" or "negligible" as defined in ASTM specification E84. Walls, flooring, roof, and doors shall be a minimum of one hour fire rated construction per ASTM designation E119. Non-combustible (ASTM E136), or one hour fire rated insulating materials per ASTM E119 shall be used.
202. This trailer is classified as a Van, Semi, 2 axle, Drop, Dry freight, Insulated (VS2DD1) type. It must be capable of supporting a minimum of 150 PSF live load uniformly distributed, except the front portion of the raised deck, which must support 5,000 pounds in a 3 x 6 foot area.
203. Trailer shall be modified to replace the rear loading doors with a solid panel for mounting the air conditioning unit (fig. 4).
204. Exterior metal skin to be smooth and finished in white and have good reflective characteristics to minimize heat absorbtion.
205. Structural openings shall be weather, dust and rodent protected.
206. Insulation shall be provided in walls, roof and floor. The construction shall achieve "U" factors not greater than .115 BTU/HR Ft² °F for walls and not greater than .05 BTU/HR Ft² °F for ceiling and floor.
207. This trailer shall be equipped with fluorescent lighting fixtures - sufficient to meet a requirement of 50 foot candles at 30" A.F.F.
208. Trailer shall be modified to incorporate two doors (fig. 1). The entry door opening shall be 2 1/2 x 7 feet with the door opening outward. Adequate locking mechanism for security and for deterring vandalism shall be used, including a long throw dead bolt lock. The second door is the equipment entrance door and shall be 3 x 8 feet. This second door shall be a means of egress only and shall be designated to prevent unauthorized entry from the outside. It is to be equipped with door hardware on the inside only with key access from the outside.

209. Unistrut shall be secured to the walls for supporting the equipment framework and cable racks.

210. Trailer to be purchased from Utility Trailer Sales Co., 4073 So. Alameda St., L.A., Calif. 90058.

211. Cooling estimate is based on following assumptions:

	BTU/HR
Solar heat gain (worst time, worst orientation)	3,891
Internal heat gain - equipment (max. size)	14,966
- power room	3,369
- 4 people	1,360
- lighting	2,606
Latent heat gain	1,740
Total heat gain	27,932

212. Carpet the entire floor area, except the raised deck, with static control carpet similar to Jamestown No. 28 by Marquesa Lana (Amoco Fabrics Co.). Color 568 cognac. Carpet can be purchased through Star Flooring Distribution Center, 6211 Randolph St., Commerce, CA 90040. Telephones 213-726-8515 and 800-372-6431.

213. Carpet the walls of the TV control area with similar type carpet as in Note 212. Color S53 plum (fig. 5). Carpet can be purchased through Star Flooring Distribution Center, 6211 Randolph St., Commerce, CA 90040. Telephones 213-726-8515 and 800-372-6431.

214. Provide exhaust register similar to Ruskin BD6 heavy duty backdraft damper (12" X 12") with front flange, static pressure control and rear mounted screen.

215. Provide two collapsible metal stairs (one per entrance/exit door). Stairs to fold up inside the trailer when not in use.

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EQUIPMENT NOTES

301. Commercial power service to be 208 VAC, 150 AMP, single phase, 3 wire.
302. Air conditioning unit to have UL approved rating with capacity of 36,000 BTU/HR (3 ton). It is to be arranged for hot gas bypass (constant run compressor) to prevent high surges of current due to compressor starting and stopping. Unit to be provided with time delay start to prevent lock rotor surge condition.
303. Cabling to CCB bay, alarm and power leads shall be connectorized and run in to all of the unequipped D4 channel bank positions for easy field installation of channel banks, if required.
304. Power service cabinet and power entrance cabinet are to be ordered from Benjamin Electric (Ed Benjamin), 1615 Staunton Ave., L.A., Calif. 90021, (213) 749-7731.
305. Bring alarm leads out to a miscellaneous terminal strip for flexibility in assignment.
306. Use 110 VAC option on the smoke/fire detector powered from inverter unit.
307. Mount 48 volt emergency lighting over each door and in the video and power rooms.
308. Distributing frame per Newton 5027-3 or equivalent. Newton Instrument Co., Inc., 1648 Lawson St., P. O. Box 2915, Durham, N.C. 27705, (919) 596-8251. Frame to be painted with Ameritone color 294G (soft ivory) semigloss.
309. Northern Telecom protector blocks to be ordered through Mr. Emile Tatigian, Western Area Manager, Outside Plant Sales, 635 So. Prospect Ave., Suite 102, Redondo Beach, Calif. 90277, (213) 316-3800.
310. CCB Jackfield arrangement shall be in accordance with maintenance recommendation No. 2132.
311. Video test equipment per maintenance recommendation No. 2133 BGB.
312. Audio test equipment per maintenance recommendation No. 2132.
313. Variable equipment items to be provided per Table A.
314. Asco switch senses loss of A-C power and activates 48 VDC emergency lights. This unit mounts on the wall in the power room adjacent to power service cabinet (fig. 12).
315. Furniture items (desk and chairs) and Data Speed 40 equipment is to be furnished by Switched Services (PT&T).

316. Provide relay rack bays per drawing NJ04001A-1 Iss. 3. Bays to be painted Ameritone color 294G (soft ivory) semigloss.

These special bays are modified to permit rear side accessibility even though they are secured against the wall. To gain rear side access for maintenance reasons or to field mount a D4 channel bank, the following steps must be taken:

- 1 - Temporarily secure the overhead unistrut support bar.
- 2 - Remove two floor bolts and two overhead bay support nuts.
- 3 - Engage full handle in eye and slide entire bay forward.

317. This facility trailer requires a source of negative 48VDC with a minimum capacity of 50 amperes for the small size trailer configuration and approximately 110 amperes for the larger size trailer.

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ORDERING INFORMATION

GROUP	EQUIPMENT	QTY	FEATURES INCLUDED	FIGURE	NOTES
1	One transportable equipment module for the 1984 Olympic Game communication requirement.	1	VS2DD1 trailer 8' x 45' x 13'6"	1, 2, 3, 4, 5	201 THRU 314
		1	Air conditioning unit per Bard 36WA4 or equivalent	12	206, 211, 302
		6	Under trailer storage compartments	A, C	
		6	Exterior light units per Wallpac-kette #400 or equivalent (150W incandescent)	13	
		6	Ionization detectors for fire alarm per Pyrotronics DU-3 or equivalent	13	306
		1	Emergency lights (48VDC)	13	307
			Equipment and wiring for AC power distribution and lighting	13, 14, C	207, 301, 304
		1	Asco Switch	13, E	314
		1	ACME Transformer per TF-1-69218, 208V to 110/220V 37.5 KVA	13, 14	
2	Framework, assembly, equipment and wiring required in addition to group 1 to provide one minimum size equipment configuration.	3	Distributing frame verticals - single-sided, floor-wall type-7'0"	6, 7, 8, 10	308
		AS REQD	Northern Telecom protector blocks per QCM 486B1/000/00/4A5	10	309, 313
		4	Misc. jack panels for protector frame	10	
		3	7'0" relay rack bays (9, 10, 11) E/W	6, 7, 8, 10	316
		AS REQD	CCB jacks per Fig. 10		313, 310
		AS REQD	7'0" relay rack bays E/W	6, 7, 8	303, 313, 316
		AS REQD	D4 channel banks E/W	6, 7, 8	313
		AS REQD	D4 common equipment P.I.U.'s for 48 channel operation via mode 3		313
		AS REQD	D4 common equipment P.I.U.'s for 96 channel operation via mode 5		313
		2	Topaz power inverters S232-30 (rect. suppl bay)	6, 7, 8	

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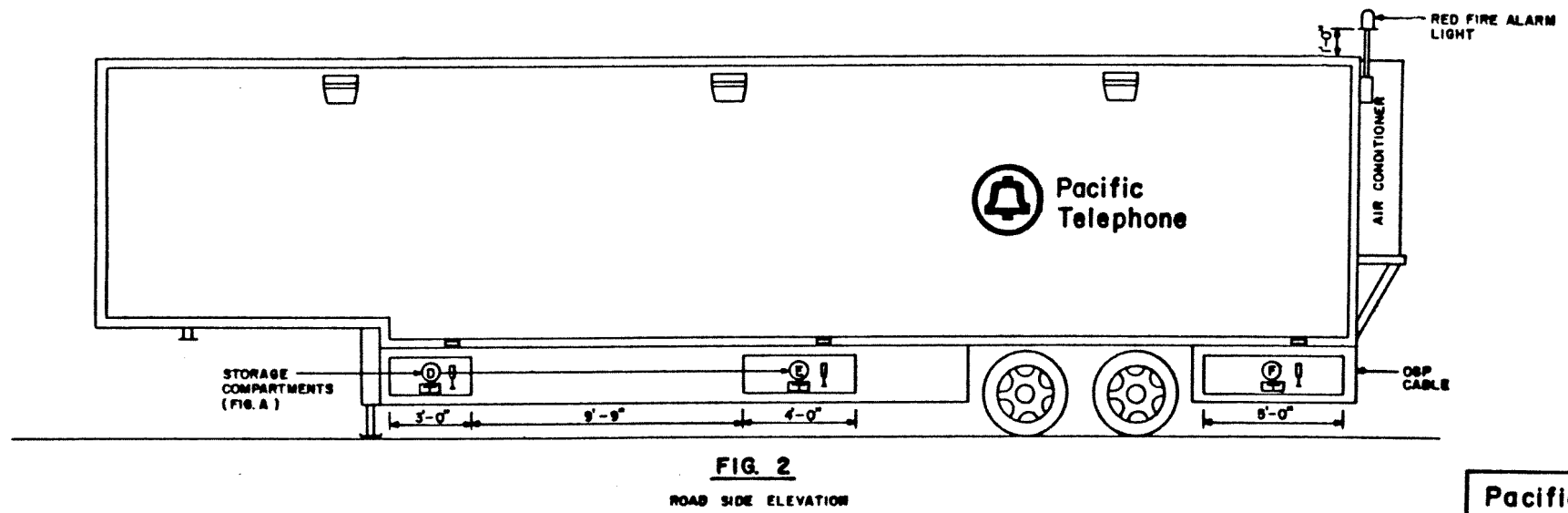
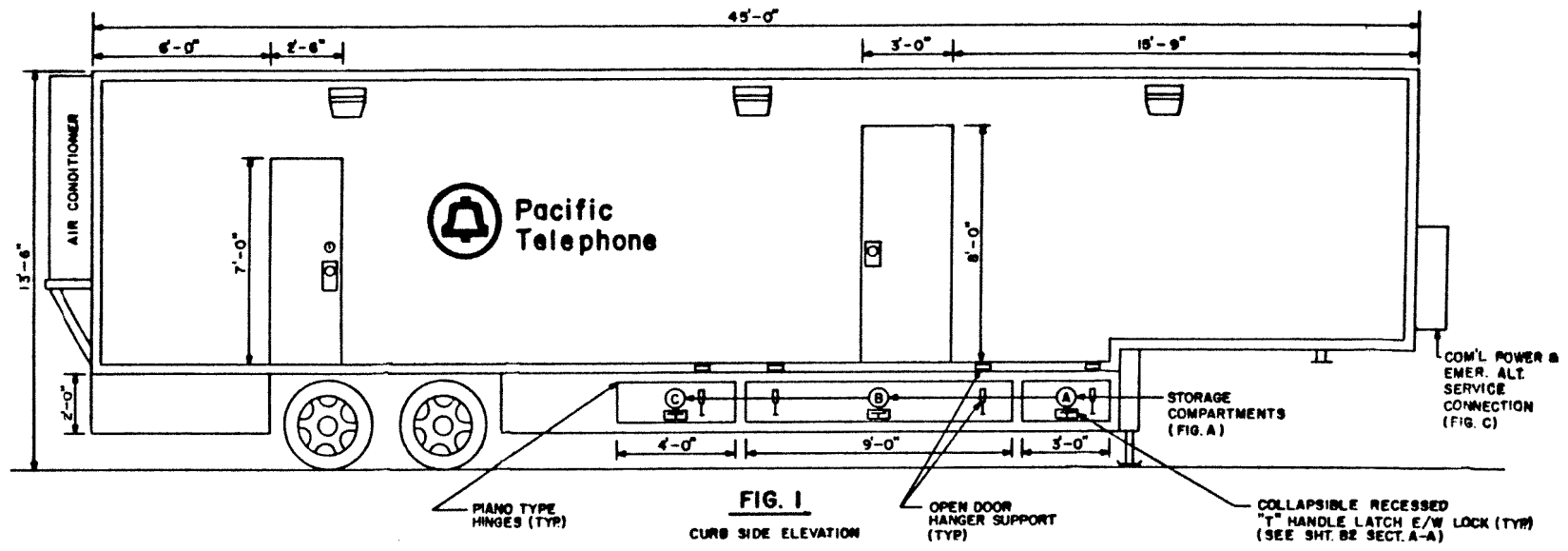
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4 1 82	3
8 10 82	4

ORDERING INFORMATION - (continued)

ORDERING INFORMATION - (continued)						DATE		
GROUP	EQUIPMENT	QTY	FEATURES INCLUDED	FIGURE	NOTES	12	1	71
		1	D4 maintenance bank and storage rack - (20, 21)	6, 7, 8		4	1	82
		4	7'0" relay rack bays (1, 2, 3, 20)	6, 7, 8	316	8	10	82
		1	ADC - DSX-1 module with CCB cross connects	6, 7, 8				
		1	2 position I-V test console E/W	6, 7, 8				
		AS REQD	Video test equipment per MR-2133BGB	6, 7, 8	311			
		1	155 B power plant E/W	6, 7, 8	317			
		5	35A rectifiers	6, 7, 8	317			
		1	2TR battery stand LD 81014-31	6, 7, 8	317			
		24	KS-15544, L-409 cells	6, 7, 8	317			
		AS REQD	Test equipment per MR-2132		312			
3	Equipment and wiring required in addition to group 2 to equip trailer for lightwave operation, both video and non-video services.	1	LTMA - (bay 3)	6				
		1	Mini LCIE - (bay 3)	6				
		AS REQD	DTLS - (bays 1, 2)	6	313			
4	Equipment and wiring required in addition to group 2 to equip trailer for non-lightwave operation on all services. (Video on radio and other services on T1 CXR facilities or digital radio.)	1	D4 office repeater bay (bay 4)	7	T1 line option			
		AS REQD	Terracom Radio Transmitter and associated equipment (bay 1)	7				
		AS REQD	Diplexers (bay 1)	7				
		1	MX3 Multiplexer (bay 3)	7	digital radio			
		1	Digital radio transmitter and associated equipment (2)					
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ORDERING INFORMATION - (continued)						DATE				ISS
GROUP	EQUIPMENT	QTY	FEATURES INCLUDED	FIGURE	NOTES	12	1	81	2	
5	Equipment and wiring required in addition to group 2 to equip trailer for combined lightwave and non-lightwave operation. (Video on cable or radio and other services on lightwave facilities.)	AS REQD	Terracom Radio Transmitter (1)	8	313 radio option	4	1	82	3	
		AS REQD	Diplexers (1)	8	313	8	10	82	4	
		1	LIMA (3)	8						
		1	Mini LCIE (3)	8						
		AS REQD	A2AT Terminal	8	313 cable option					
6	Framework, equipment and wiring required in addition to group 2 to provide one unequipped D4 bay with cabling for each channel bank.	1	110" relay rack E/W		316					
		4	Connectorized cables to CCB bay		303					
		4	Connectorized alarm leads		303					
		4	Connectorized power leads		303					
7	Equipment and wiring required for one D4 channel bank E/W connectorized power and alarm leads for field installation.	1	D4 channel bank E/W		303					
		1	Connectorized local cable for power							
		1	Connectorized local cable for alarms							
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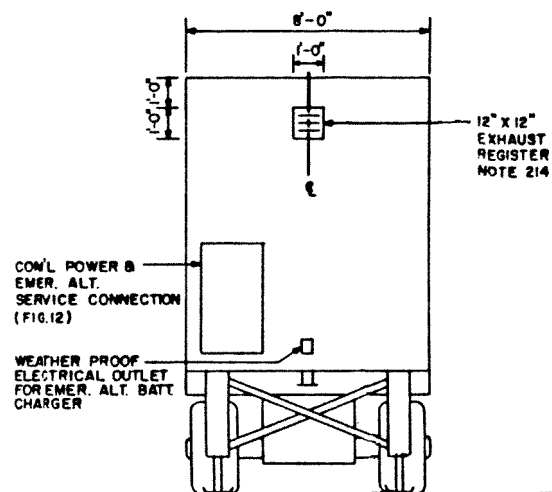


FIG. 3
FRONT VIEW

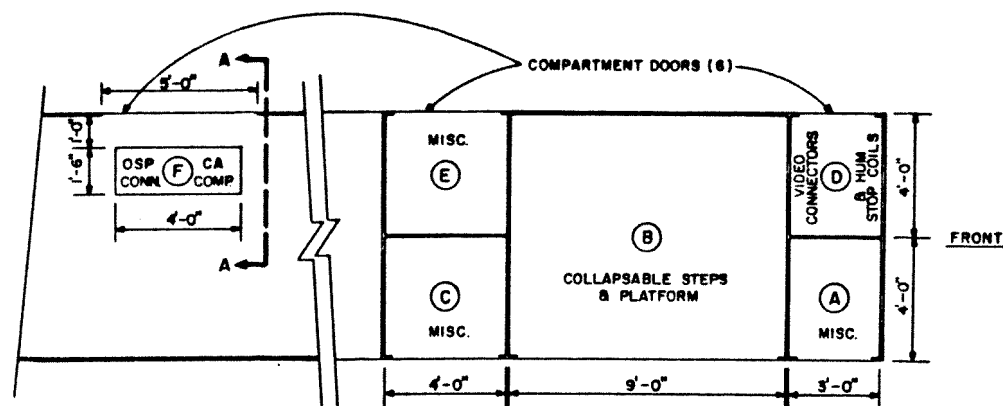


FIG. A
STORAGE COMPARTMENTS
UNDER TRAILER FLOOR

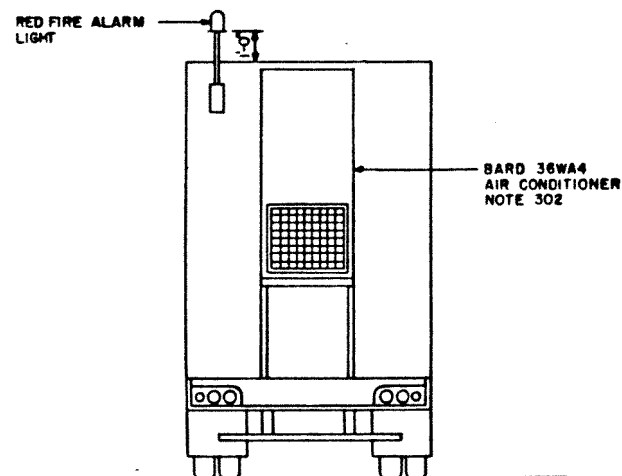
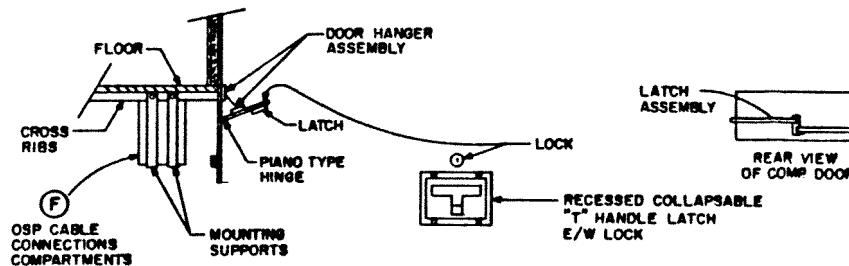


FIG. 4
REAR VIEW



A-A
COMPARTMENT DOOR
DETAIL
(TYPICAL)

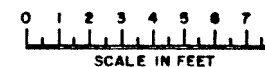
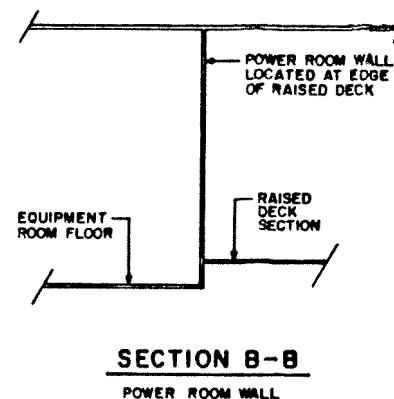
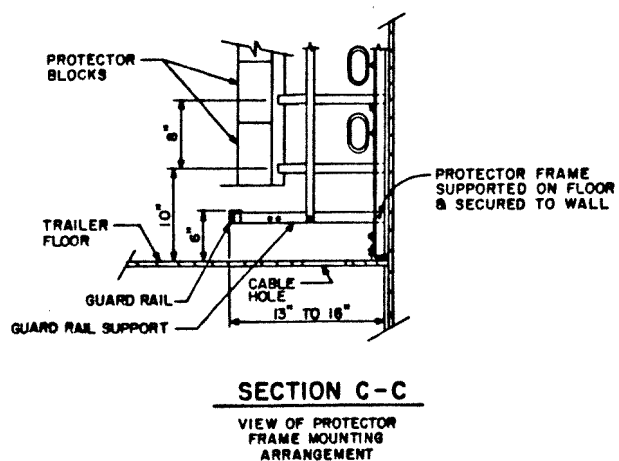
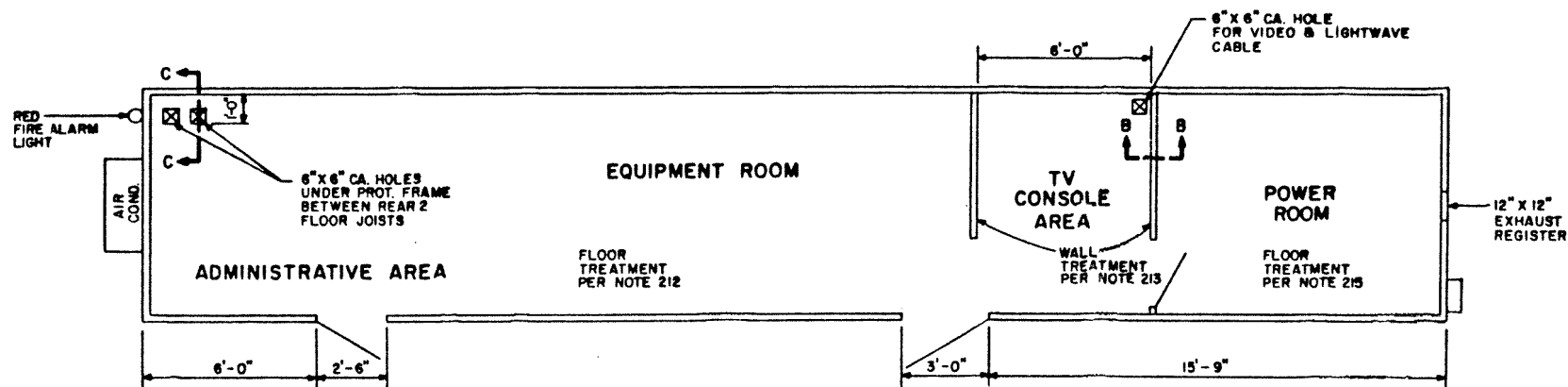
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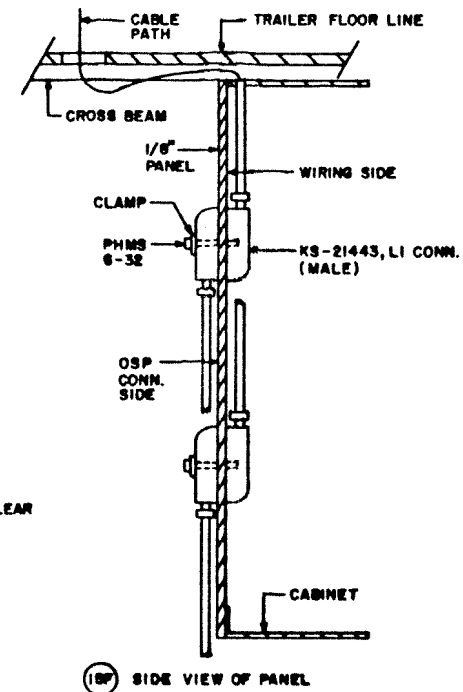
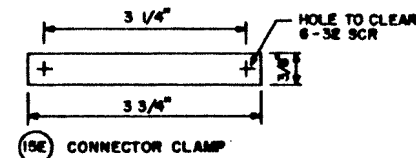
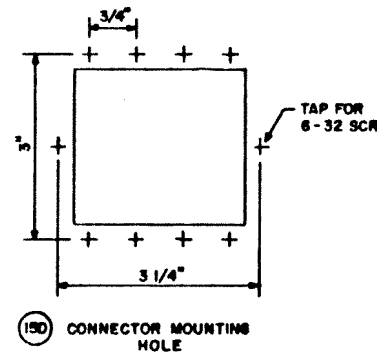
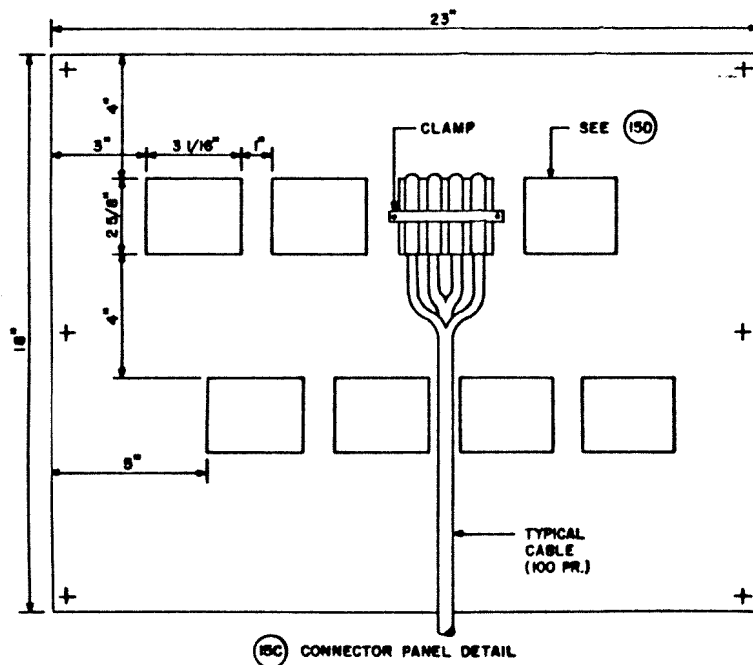
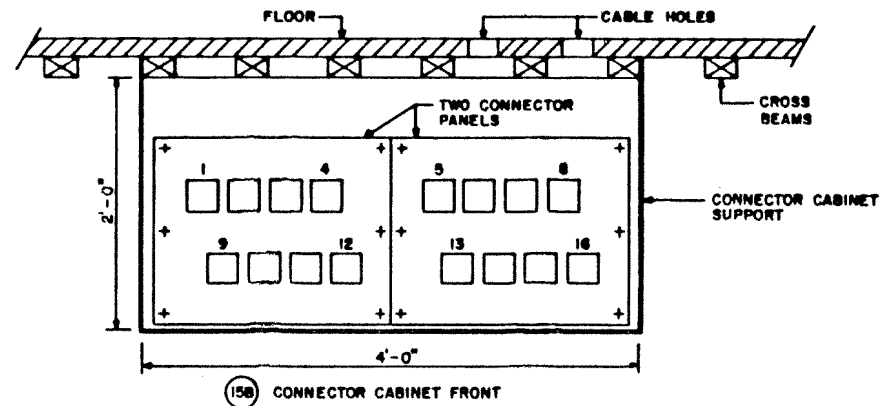
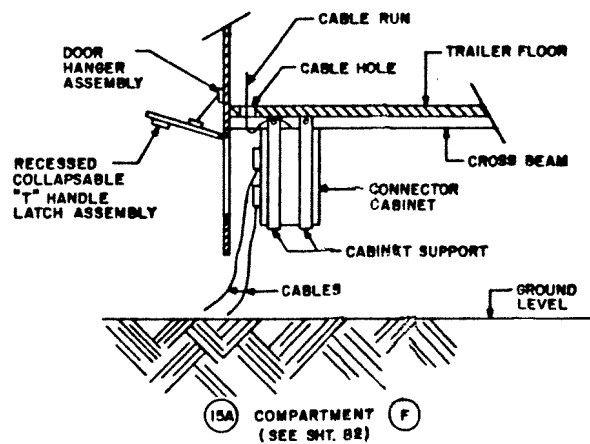


FIG. 15

OSP CONNECTOR PANEL DETAIL

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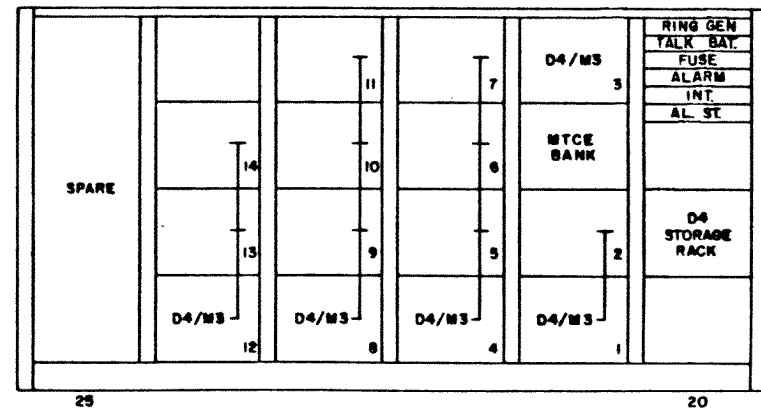
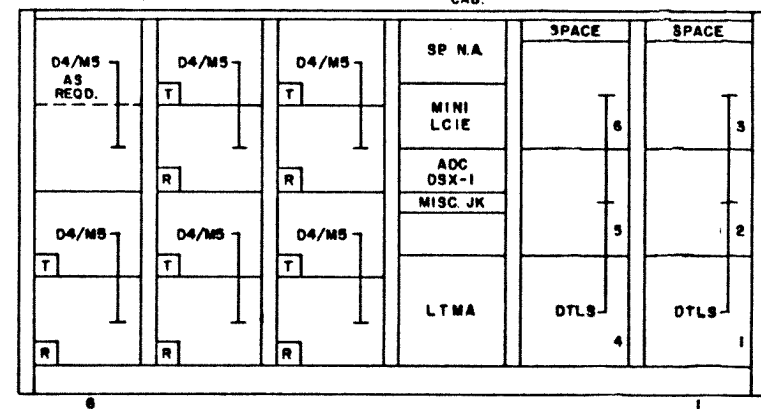
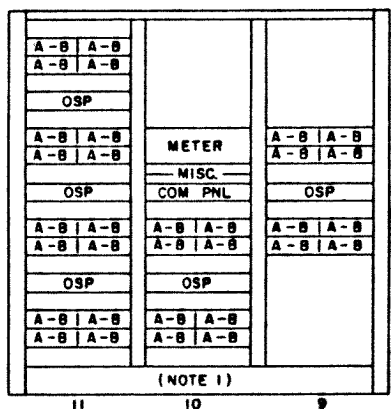
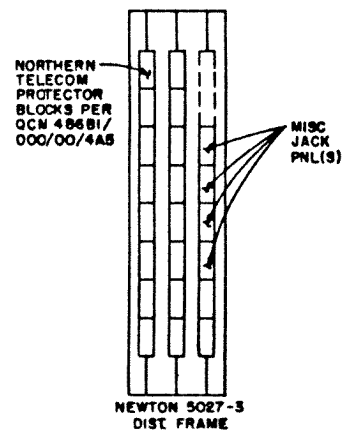
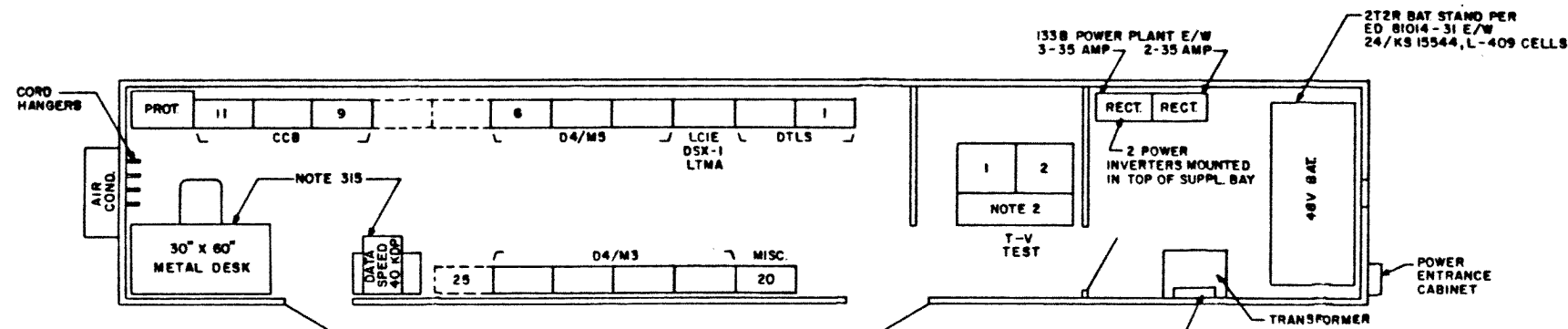


FIG. 6

EQUIPMENT CONFIGURATION FOR LIGHTWAVE APPLICATION

- SHEET NOTES**
1. CCB EQUIPMENT LAYOUT TO BE PER MR-2132.
 2. VIDEO TEST EQUIPMENT ARRANGED PER MR-2133 898.

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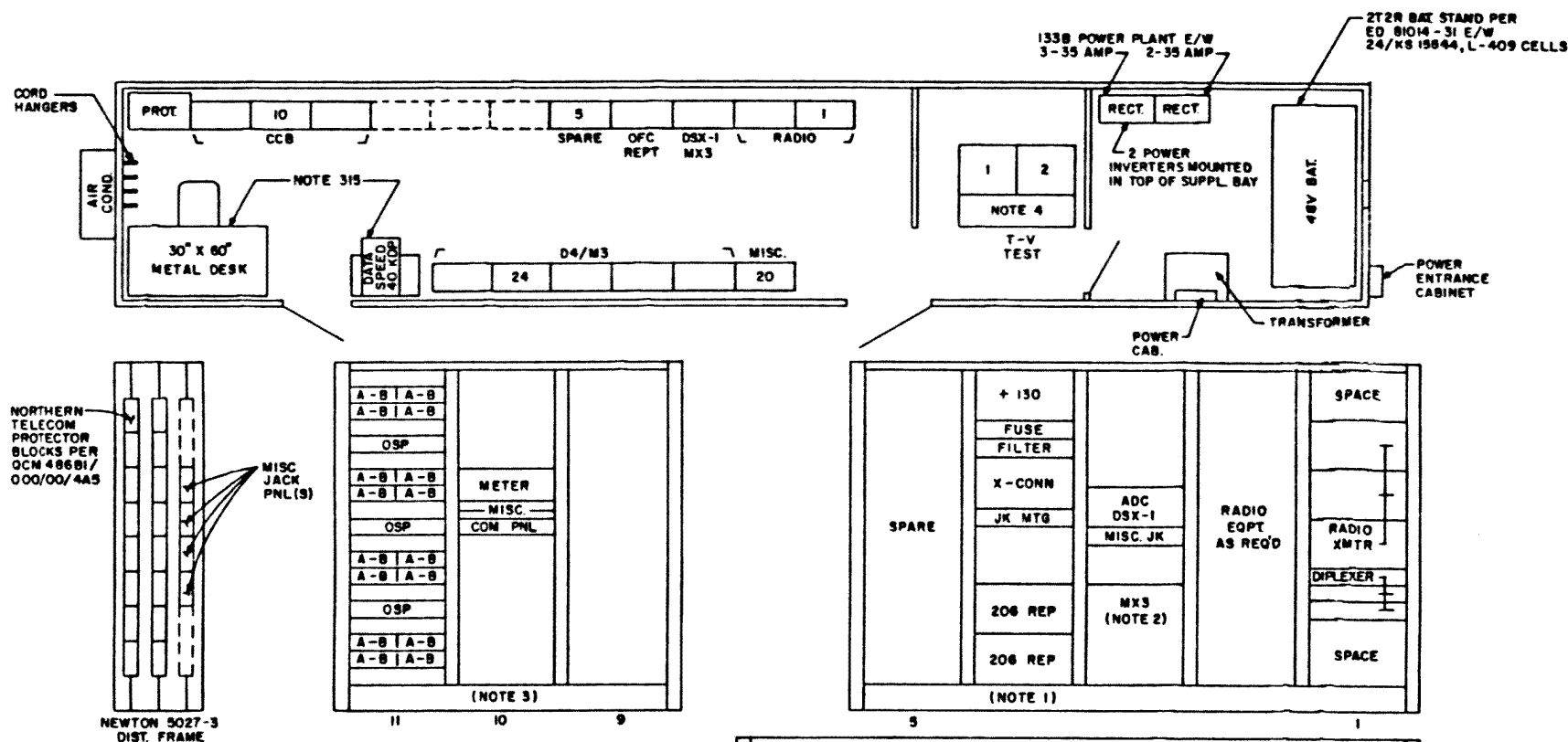
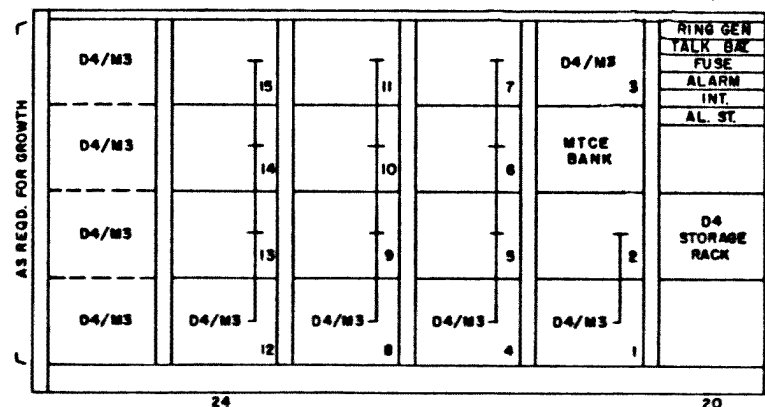


FIG. 7

EQUIPMENT CONFIGURATION FOR
NON-LIGHTWAVE APPLICATION
VIDEO SERVICE VIA ANALOG RADIO
NON VIDEO SERVICES VIA T1 LINE
OR DIGITAL RADIO

SHEET NOTES

1. OFFICE REPEATER BAY REQUIRED ONLY FOR T1 LINE OPTION.
2. MX3 REQUIRED ON DIGITAL RADIO OPTION.
3. CCB EQUIPMENT LAYOUT TO BE PER MR-2132.
4. VIDEO TEST EQUIPMENT ARRANGED PER MR-2133 868.



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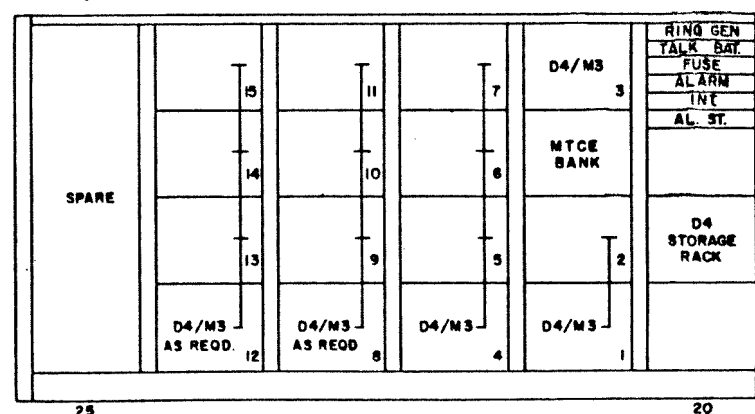
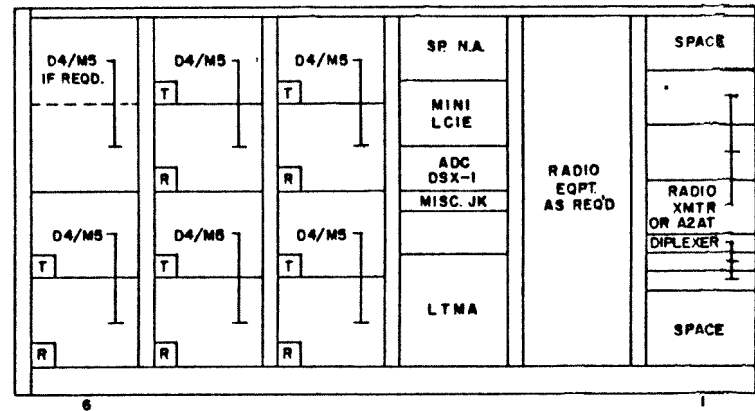
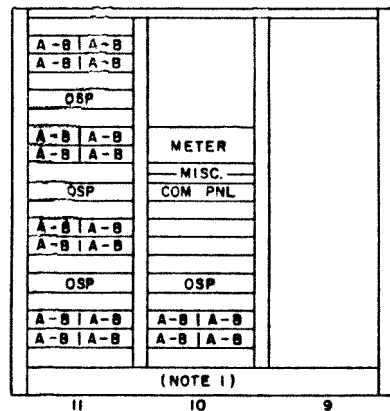
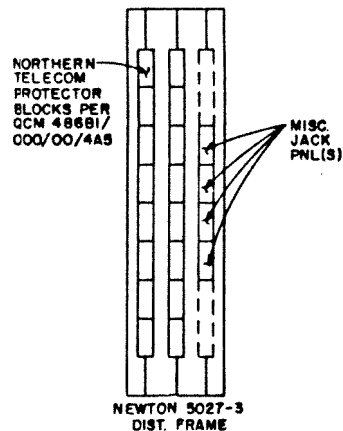
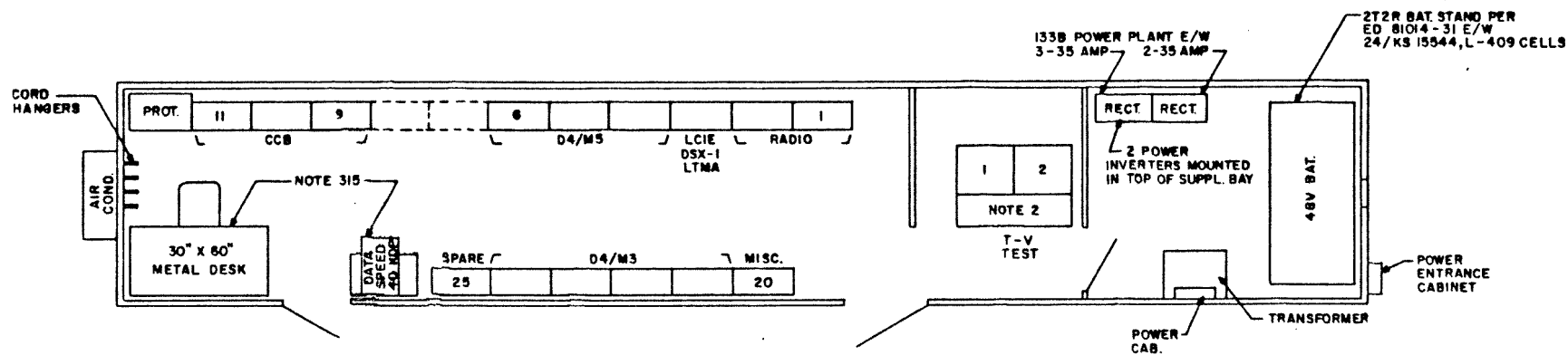


FIG. 8
EQUIPMENT CONFIGURATION FOR
COMBINED LIGHTWAVE AND RADIO APPLICATION
VIDEO SERVICE VIA RADIO
NON VIDEO SERVICES VIA LIGHTWAVE

SHEET NOTES

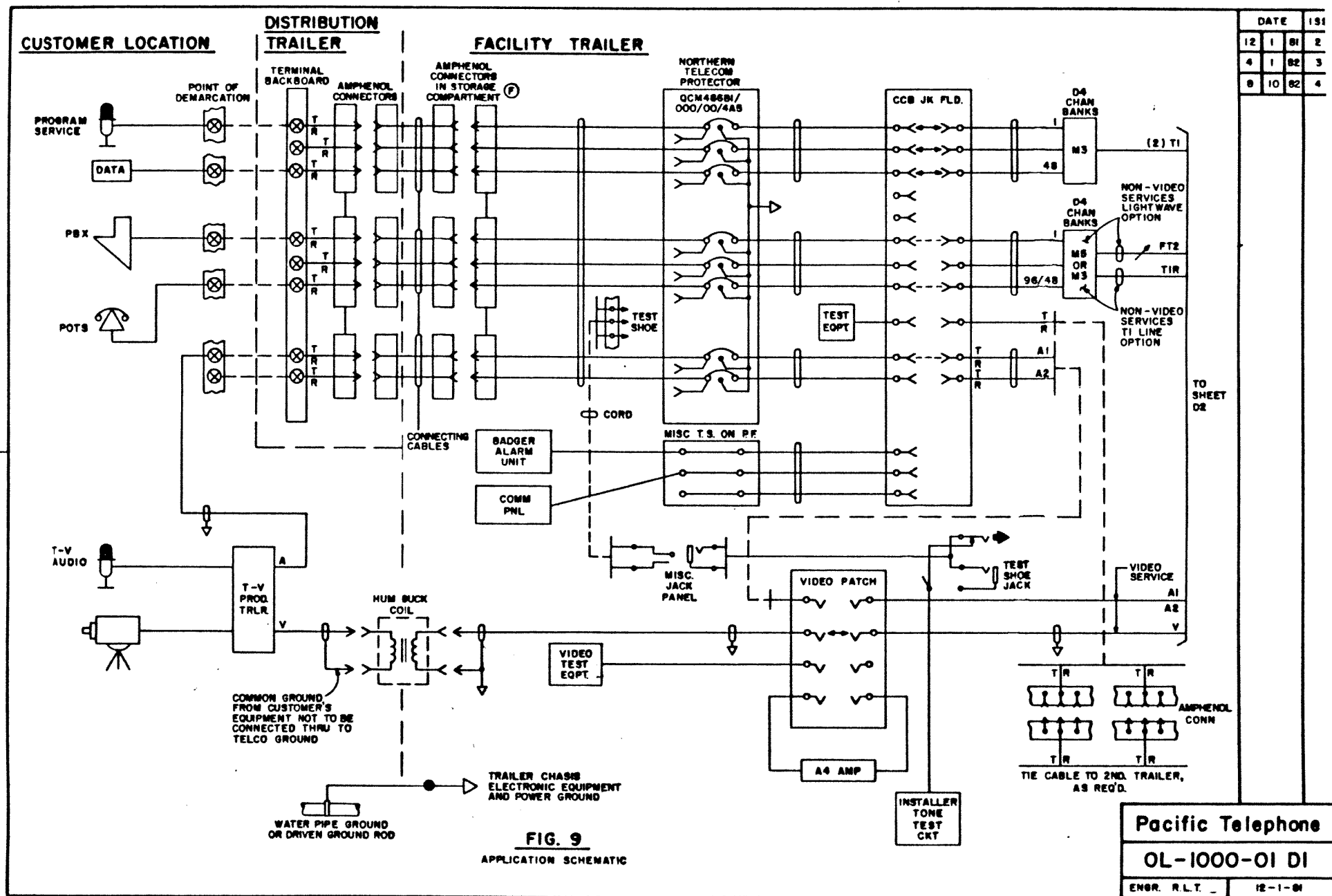
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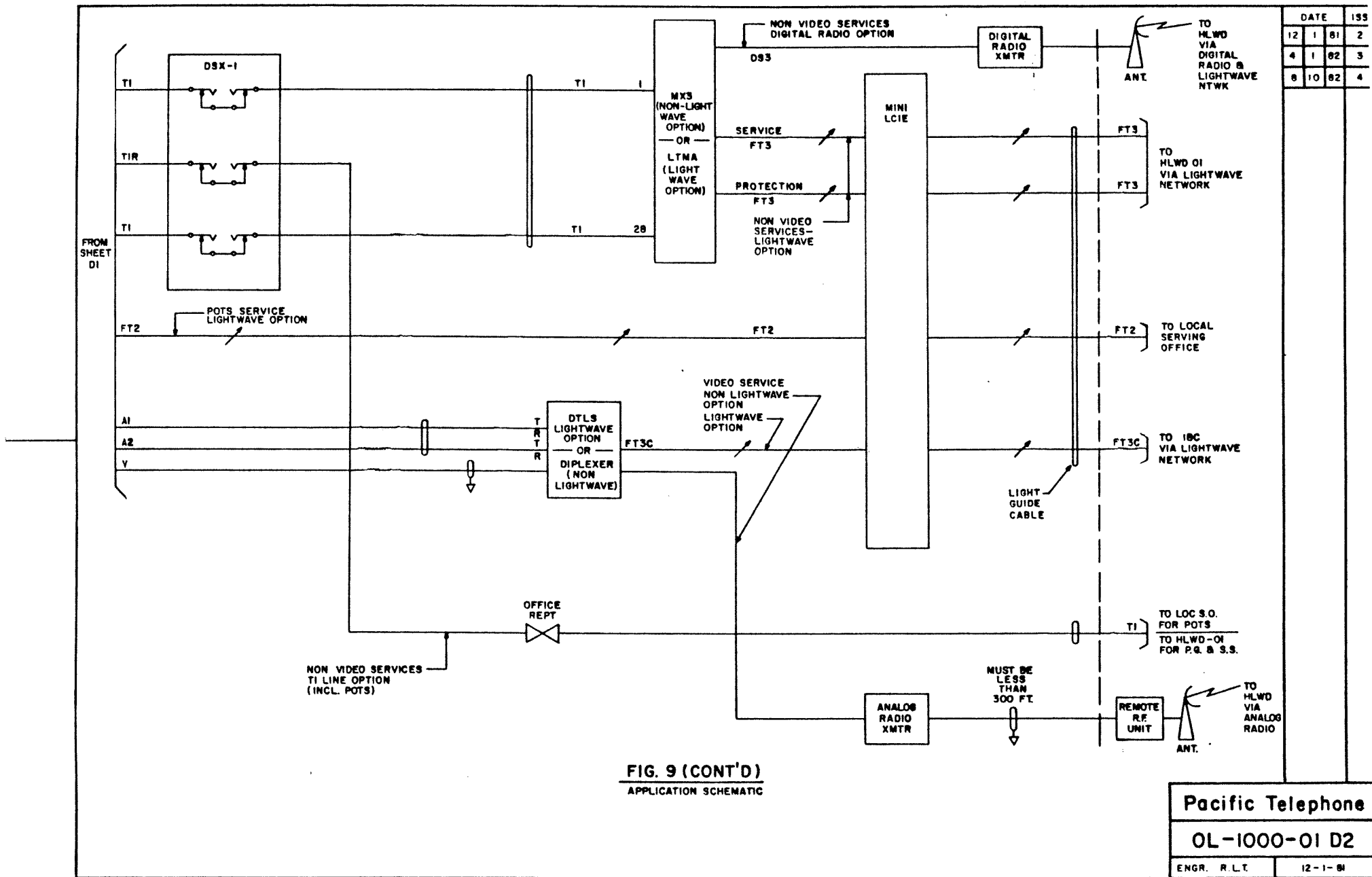
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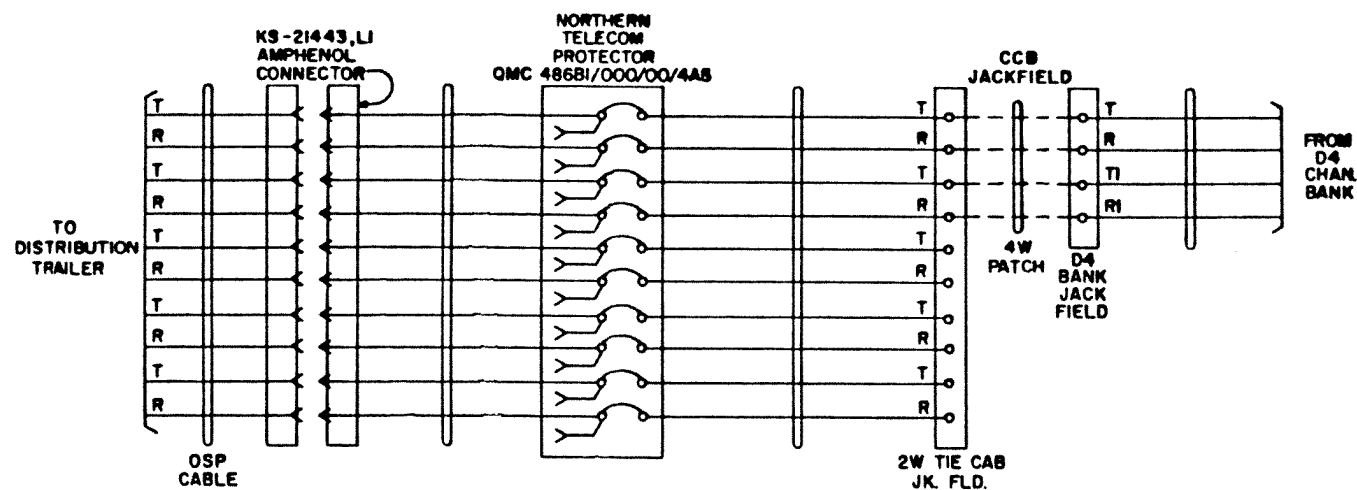
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82	3
82	4

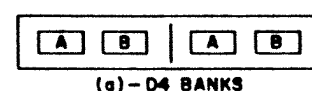
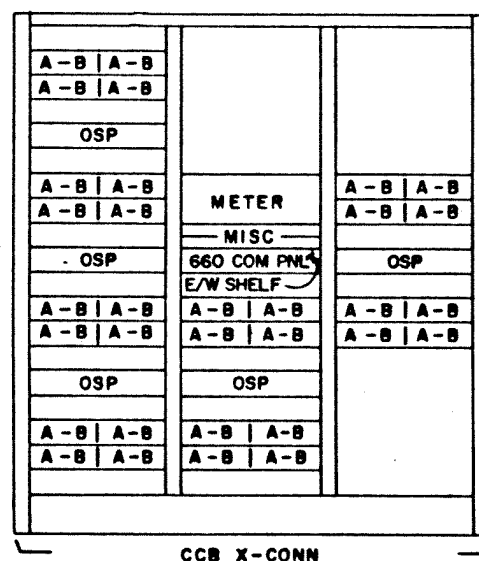
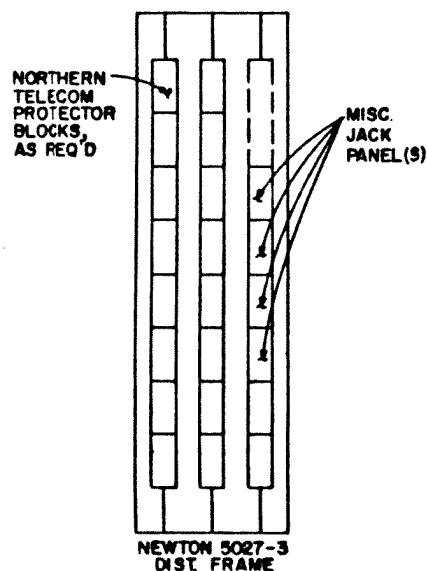


DATE				ISS
12	1	81	2	
4	1	82	3	
6	10	82	4	



CAD I

D4 CHANNEL BANK DROP SIDE



4 SECTIONS CCB JACKS
4 JACKS/ROW (T/R/TI/RI)
24 ROWS/SECTION
2 DBL DIGRP CHAN. BKS.



4 SECTION CCB JACKS
10 JACKS/ROW (5 T/R PAIRS)
20 ROWS/SECTION
400 PAIRS/MTG PLT



ADC BANTAM MISC. JACKFIELD
E/W 48 JACK-KEY-LAMP CKTS

FIG. 10
PROTECTOR & CCB BAY ARRANGEMENT

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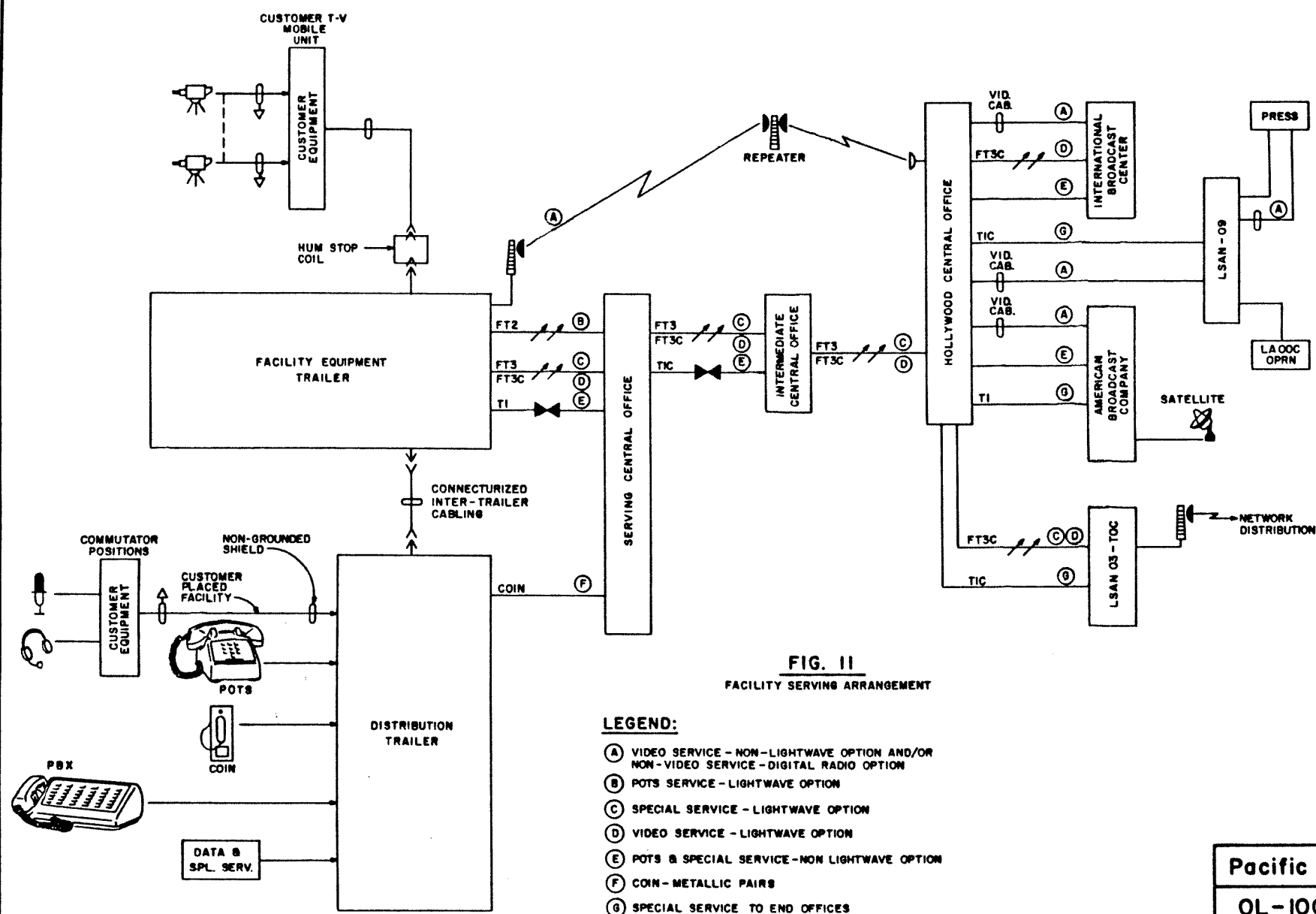


FIG. 11
FACILITY SERVING ARRANGEMENT

- LEGEND:**
- (A) VIDEO SERVICE - NON-LIGHTWAVE OPTION AND/OR NON-VIDEO SERVICE-DIGITAL RADIO OPTION
 - (B) POTS SERVICE - LIGHTWAVE OPTION
 - (C) SPECIAL SERVICE - LIGHTWAVE OPTION
 - (D) VIDEO SERVICE - LIGHTWAVE OPTION
 - (E) POTS & SPECIAL SERVICE-NON LIGHTWAVE OPTION
 - (F) COIN-METALLIC PAIRS
 - (G) SPECIAL SERVICE TO END OFFICES

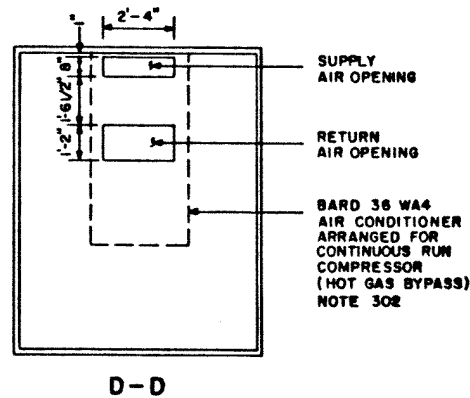
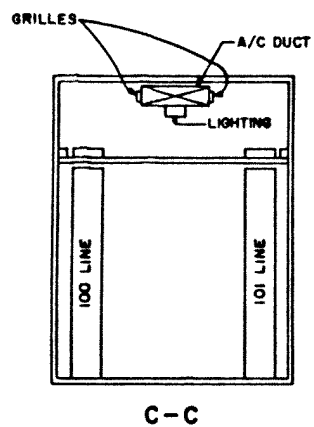
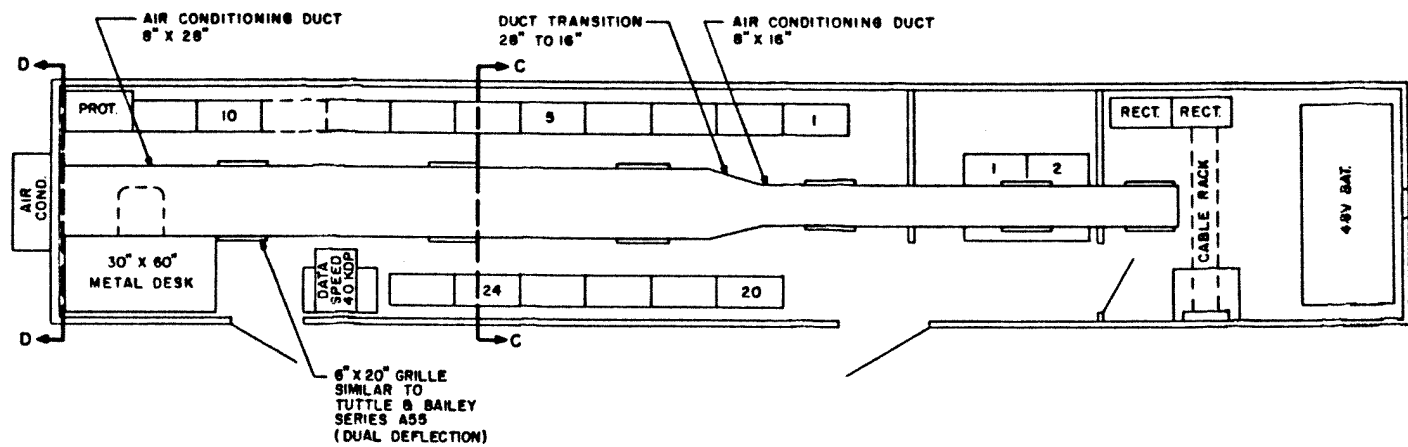
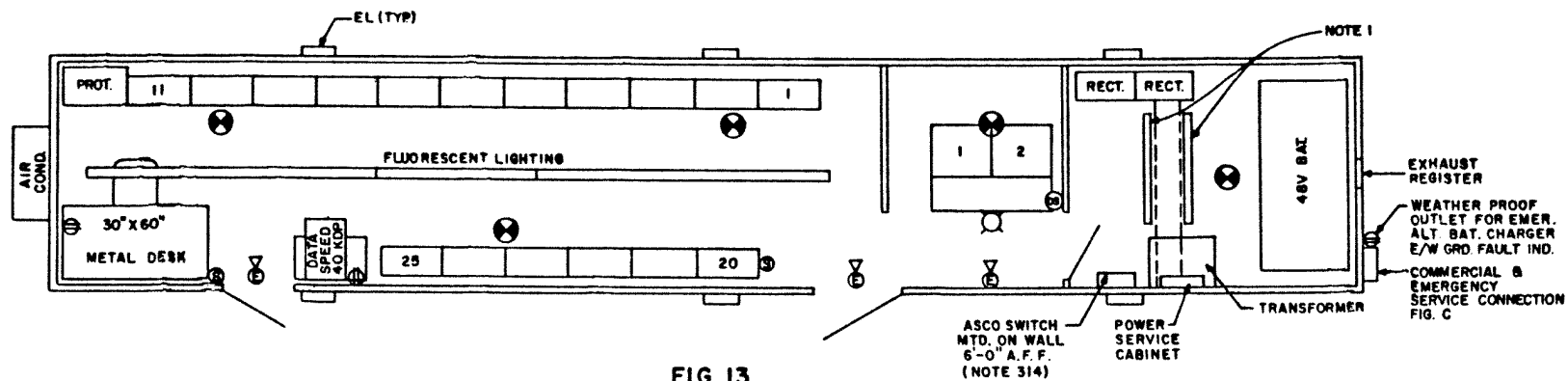


FIG. 12
AIR CONDITIONING (NOTE 211)

DATE	ISS
12 1 81	2
4 1 82	3
8 10 82	4

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DATE	13
12 1 81	2
4 1 82	3
8 10 82	4



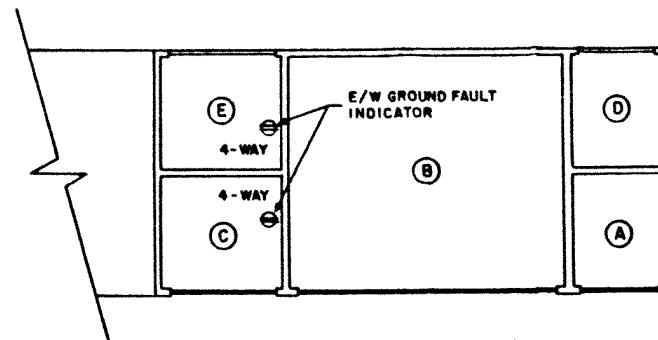
LEGEND:

- ⊗ SMOKE/FIRE DETECTORS
PYROTRONICS MODEL DU-3 (NOTE 2)
- ⊗ INCANDESCENT LIGHT- CONTROLLED
BY DIMMER
- ⊗ DIMMER SWITCH
- ⊗ LIGHT SWITCH
- ⊗ EMERGENCY LIGHTING- 48VDC
- ⊗ 115V AC OUTLET
- EL EXTERNAL LIGHT SIMILAR TO
WALLPACKETTE NO. 400
150W INCANDESCENT

— SINGLE TUBE FLUORESCENT LIGHTING PER
ED-4 CO12-12 OR EQUIV.

SHEET NOTES

1. MOUNT LIGHTS IN POWER ROOM
ON EDGE OF CABLE RACK.
2. SMOKE/FIRE DETECTOR CONNECTED
TO 110VAC FROM INVERTER.



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DATE				13
12	1	81	2	
4	1	82	3	
8	10	82	4	

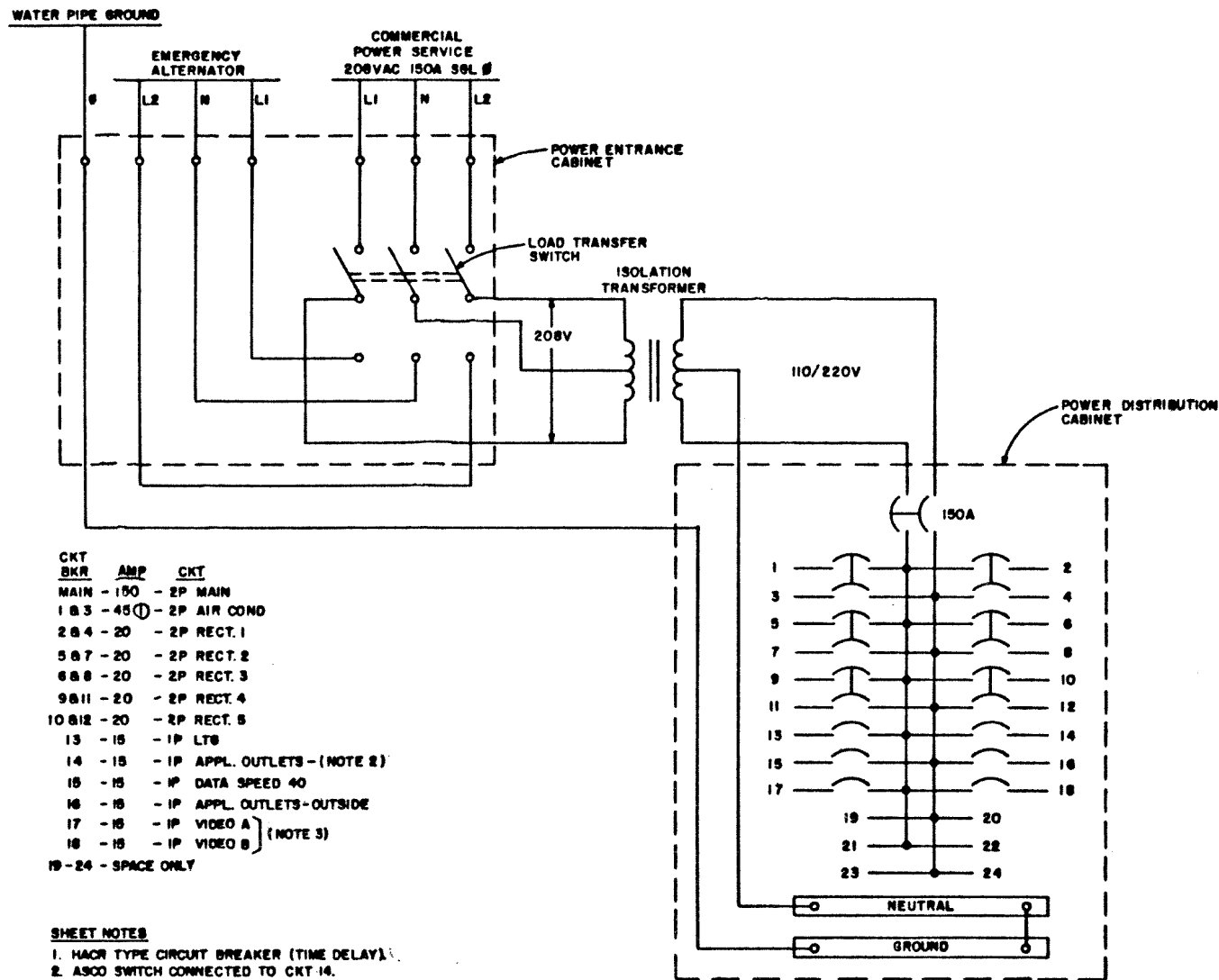


FIG. 14
POWER DISTRIBUTION

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