



**TELEPHONE EQUIPMENT BACKBOARD:**

1. MATERIALS: MATERIALS FOR THE TELEPHONE/DATA EQUIPMENT BACKBOARD SHALL INCLUDE AND CONFORM TO THE FOLLOWING:
  - (A) TWO SHEETS OF 1-INCH THICK, 6-FOOT BY 8-FOOT, GRADE A-C OR BETTER, PLYWOOD TO MAKE A TELEPHONE/DATA BACKBOARD TWO LAYERS THICK WITH 6-FOOT BY 8-FOOT OVERALL DIMENSIONS.
  - (B) A MULTIPLE OUTLET STRIP 3 FEET LONG, CONTAINING FIVE (5) PREWIRED 3-WIRE SINGLE CIRCUIT NEMA 5-15R TYPE ELECTRICAL OUTLETS, SPACED 6 INCHES ON CENTERS, EQUAL TO WIREMOLD COMPANY TYPE PLUGMOLD 2000 SURFACE METAL RACEWAY SYSTEM CATALOG NO 20690G.
  - (C) GROUND BUS MATERIAL, RECTANGULAR COPPER BAR STOCK, 3/16 BY 1 INCH BY 3 FEET 6 INCHES LONG, TAPPED WITH THREADED 10-32 SIZE SCREW HOLES SPACED NOT MORE THAN EVERY 3 INCHES.
2. INSTALLATION: THE TELEPHONE/DATA EQUIPMENT BACKBOARD SHALL BE INSTALLED AS FOLLOWS:
  - (A) THE CONTRACTOR SHALL INSTALL MATERIALS AND CONSTRUCT THE TELEPHONE/DATA EQUIPMENT BACKBOARD AS INDICATED HEREIN WITH CONDUIT, FITTINGS AND ASSOCIATED HARDWARE.
  - (B) THE FIRST LAYER OF PLYWOOD SHALL BE ANCHORED TO THE WALL FRAMING MEMBERS OR OTHERWISE FIRMLY SECURED TO THE WALL SHEATHING WITH COUNTERSUNK SCREWS. INSTALL SCREWS ALONG THE PERIMETER OF EACH BOARD WITH SPACING NOT LESS THAN 16 INCHES.
  - (C) THE SECOND LAYER OF PLYWOOD SHALL BE FASTENED TO THE FIRST LAYER BY GLUE AND COUNTERSUNK WOOD SCREWS WHICH ARE PLACED SO THAT ALL SCREWS ARE ALONG THE PERIMETER OF THE PLYWOOD SHEET SECTION AND LOCATED A MINIMUM OF 4 INCHES AWAY FROM ANY SCREWS USED TO FASTEN THE FIRST LAYER. WOOD SCREWS USED TO ATTACH THE SECOND LAYER SHALL BE 1 5/8 INCH LONG, INSTALLED IN SUCH A WAY THAT NO PART OF THESE SCREWS COMES WITHIN MORE THAN 3/8 INCHES OF PENETRATING THE FIRST LAYER.
  - (D) THE MULTIPLE ELECTRICAL OUTLET STRIP SHALL BE MOUNTED HORIZONTALLY ALONG THE BOTTOM SECTION OF THE BACKBOARD, WITH TOP OF STRIP 8 INCHES ABOVE THE BOTTOM EDGE OF THE BACKBOARD. THE CONDUCTORS FEEDING THE OUTLET STRIP SHALL BE IN PVC ELECTRICAL CONDUIT FOR ANY PORTION OF THE CONDUIT WHICH LIES ON THE WALL OR WALL MOUNTED BACKBOARD. THE CONDUIT SHALL BE ROUTED SO THAT NO PORTION RUNS VERTICALLY ON THE BACKBOARD. ANY VERTICAL RUNS SHALL BE OFF THE BACKBOARD.
  - (E) THE COPPER GROUND BUS SHALL BE INSTALLED HORIZONTALLY ALONG THE BOTTOM OF THE ENTIRE LENGTH OF THE BACKBOARD, WITH THE TOP EDGE 12 INCHES ABOVE THE BOTTOM EDGE OF THE BACKBOARD. THE BUS SHALL BE ELECTRICALLY BONDED TO THE BUILDING "QUIET" GROUND BY A MINIMUM #1/0 AWG BC GROUNDING CONDUCTOR, AS SHOWN ON DRAWING.

**TELEPHONE/DATA EQUIPMENT COMMUNICATION BACKBOARD**  
 N. T. S.

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION

ISSUED FOR CONSTRUCTION	
DRAWN	M. M. 11-15-96
CHECKED	JCL 7-24-96
ENGINEER	RC 10-25-96
PROJ	SD 11/15/96



**PARSONS**  
 100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

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 CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
 SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE	SHEET NUMBER	CONTRACT NUMBER	PROJECT NUMBER
ELECTRICAL CORNER STATION DETAILS	NONE	PP150969	8094
LA-E-401			