WBA
ARCHITECTURE

14 July 2020

PARKS AND RECREATION BUILDING
CITY OF RICHLAND

CITY OF RICHLAND
410 E HARPER STREET RICHLAND, MS 39218

ADDENDUM NO. 05

The following additions, deletions, changes, clarifications and/or substitutions to the Project Drawings and Specifications as indicated are to be included as part of the Contract Documents.

DRAWINGS

ITEM NO. 01: **SHEET 2.0 POWER PLAN – PART A**
DELETE sheet in its entirety and **REPLACE** with enclosed sheet. Add notations and symbols for fire alarm.

SPECIFICATIONS

ITEM NO. 02: **SECTION 273000 Telephone and Data**
Add enclosed specification to project manual.

ENCL: Drawings (24x36):
SHEET 2.0 POWER PLAN – PART A

Specifications (8.5x11):
27.3000 Telephone and Data

cc: All document holders.
File 2619.C2

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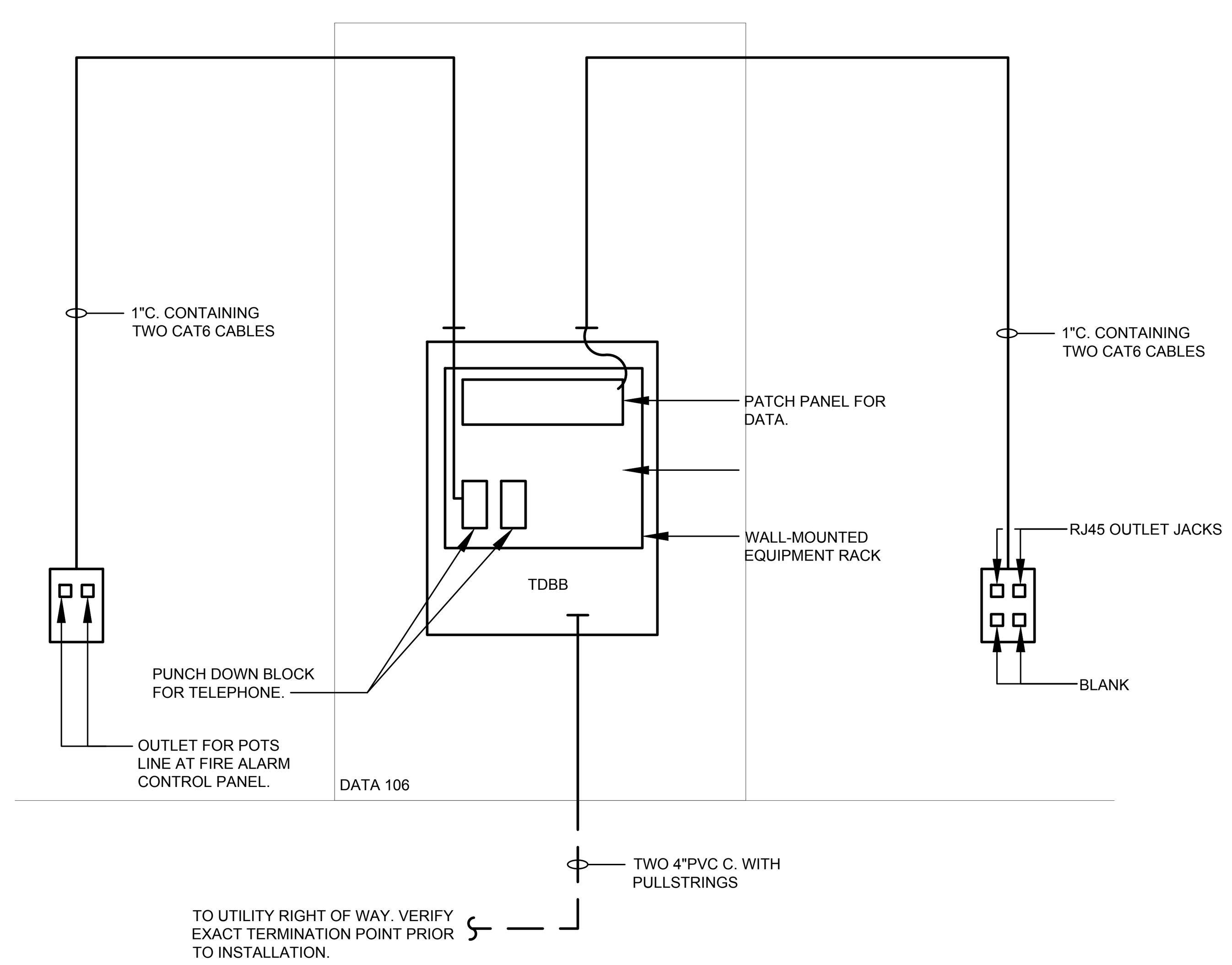
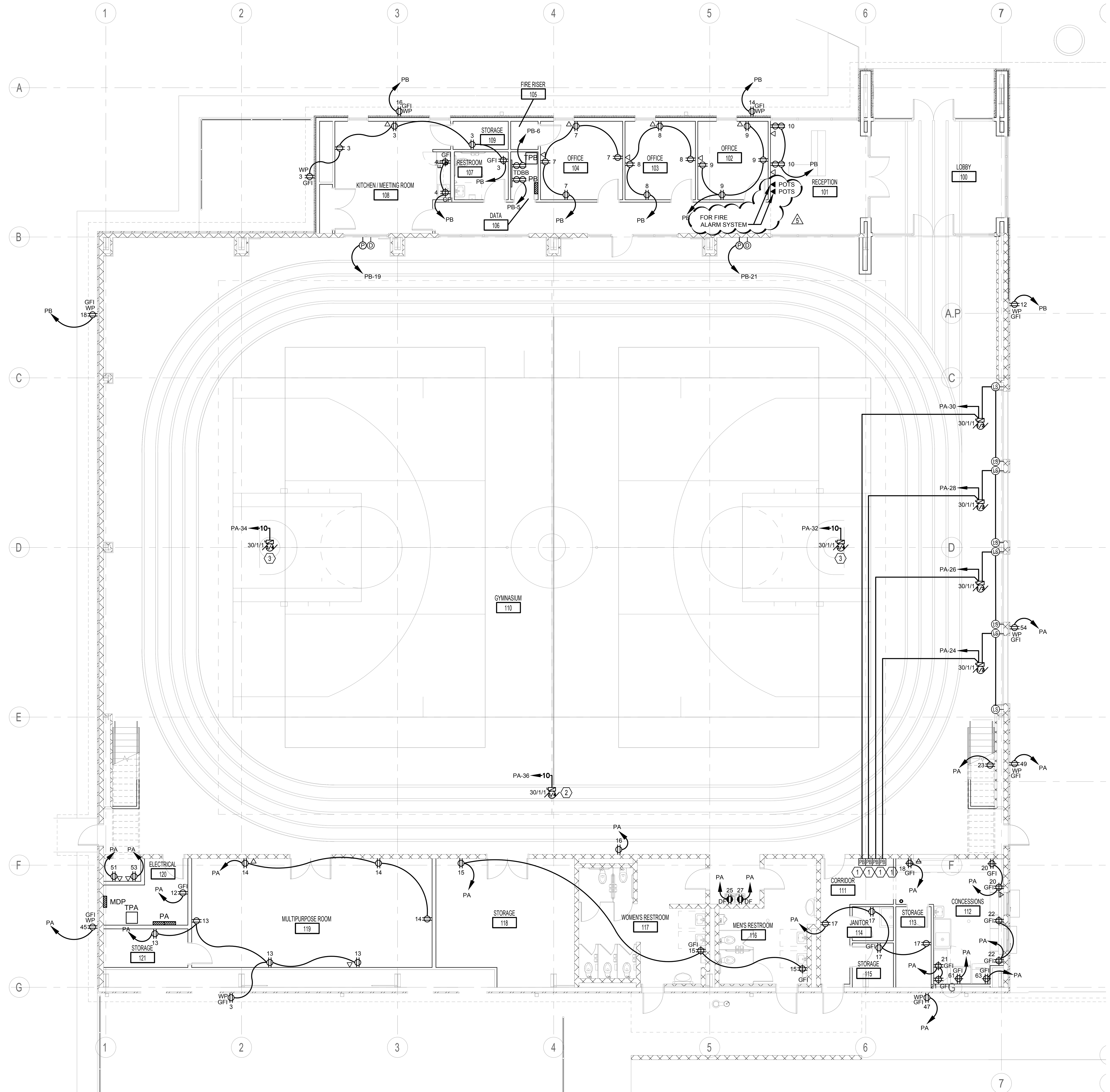
MASTER KEYED NOTES

Mark	Description
1	MOTORIZED DOOR CONTROLLER BY DOOR VENDOR. VERIFY EXACT LOCATION OF DOOR CONTROLLER WITH ARCHITECT PRIOR TO ROUGH-IN.
2	MOTORIZED CURTAIN CONTROLLER BY CURTAIN VENDOR. VERIFY EXACT LOCATION OF CURTAIN CONTROLLER WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE ROUGH-INS AS REQUIRED.
3	MOTORIZED GOAL CONTROLLER BY GOAL VENDOR. VERIFY EXACT LOCATION OF GOAL CONTROLLER WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE ROUGH-INS AS REQUIRED.

NOTE:
IF A KEYED NOTE IS NOT SHOWN ON A DRAWING, THEN THE KEYED NOTE SHALL BE IGNORED FOR THAT PARTICULAR DRAWING. THIS SHALL DIFFER FROM DRAWING TO DRAWING.



2 E2.0 TELEPHONE / DATA RISER DIAGRAM
Scale: NONE



1 E2.0 POWER PLAN - PART A
Scale: 1/8" = 1'-0"

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WBA ARCHITECTURE

RICHLAND PARKS AND RECREATION BUILDING

CITY OF RICHLAND
410 E HARPER ST.
RICHLAND, MS 39218

JUNE 17, 2020

100% CONSTRUCTION DOCUMENTS

WBA # 2619

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	06-26-2020
2	ADDENDUM #2	07-02-2020
3	ADDENDUM #3	07-10-2020
4	ADDENDUM #4	07-14-2020
5	ADDENDUM #5	07-14-2020

E2.0
POWER PLAN
PART A

SECTION 27.3000

TELEPHONE AND DATA SYSTEMS

PART 1 – GENERAL

1.1 Provide complete telephone and data systems in accordance with this specification and the contract drawings. All systems shall be furnished and installed to meet or exceed EIA/TIA Category 6 Standards.

1.2 All new wiring on this project shall conform to the EIA TIA 568A T568A scheme.

1.3 Prior to ordering equipment, provide six sets of manufacturer's cut sheets to the Architect or Engineer for the equipment to be installed. Also submit shop drawings showing the floor plan with all wiring tag identification and conduit and cable routing. Do not order any equipment without receiving submittals and shop drawings that have been reviewed and approved by the Engineer.

1.4 Contractors furnishing and installing telephone and data system components shall be regularly involved in furnishing and installing systems of the type specified. They shall have installed five systems similar in size and scope within the past six months. The Telephone and Data System Contractor shall pull the cable as well as install all jacks and make all other system terminations.

PART 2 – PRODUCTS

2.1 Outlet Boxes: Provide outlet boxes in accordance with Specification 26 05 33.

2.2 Plaster Rings: Plaster rings shall be furnished to provide single-gang openings in outlet boxes unless otherwise noted.

2.3 Raceways: Provide raceways in accordance with Specification 26 05 33.

2.4 Jacks: Provide outlet boxes with a strap containing the number of Jacks indicated on the drawings. Outlet jacks shall be 8-position, 8-conductor, RJ-45 jacks that are multivendor supportive accepting most phone and data plugs. Jacks shall have gold-plated (50 microinches minimum) contacts with 110 connections on the back. The jacks shall snap in the straps. The straps shall be colored to match the switches and receptacle color selected by the Architect. The straps shall be covered by a stainless steel wallplate identical to those of the receptacles and switches. Telephone outlet jacks shall be yellow; data jacks shall be blue.

2.5 Fiber Optic Cabling: Cable shall be a 12 strand 62.5/125 micron multimode. Bandwidth shall be 200MHz @ 850nm.

2.6 Cable: All cable shall be Category 6 rated and shall conform to or exceed the EIA/TIA 578 Commercial Building Wiring Standard, Horizontal Cable Section and the EIA/TIA Technical Systems Bulletin 36 for Unshielded Twisted Pair Cables. Other standards supported shall include IEEE 802.3, Ibase5, 10BASE-T; IEEE 802.5, 4 Mbps, 16 Mbps (328 ft/100m), 104 Workstations, proposed ANSI X3T9.5 TP-PMD requirements for UTP

at 100 Mbps, and 155 MB ATM. Cabling shall be UL listed. Telephone cables shall be yellow; data cables shall be blue. All Cable shall be plenum rated.

2.7 Telephone and Data Backboard (TDBB): Wall mount a ¾" x 4' x 8' sheet of plywood, primed and painted with two coats of fire retardant paint of the color and finish selected by the Architect. Provide a ¼" x 4" x 17.75" copper ground block (Erico Eritech TMGB-A18L23PT or approved equal) on the wall, bond a #6 AWG copper conductor to the ground block with a two hole compression lug and run the #6 AWG ground wire to the electrical power system ground. Bond the #6 AWG ground wire to the power system electrode using an exothermic weld.

2.8 Punchdown Blocks: Telephone cables shall terminate at the Telephone & Data Backboard on Punchdown Blocks (coordinate exact requirements with Owner's IT personnel). Punchdown blocks shall be 110 punchdown blocks maintaining the Category 6 rating. Furnish punchdown blocks for all telephone outlets in this contract plus 25% additional outlets.

2.9 Patch Panels: Data Cables shall terminate at the Telephone & Data Backboard in patch panels. Provide a patch panel (or panels) at each TDBB to accommodate all cabling plus 15% spare capacity. Provide crossconnecting cables as required to interconnect the patch panels providing the Owner a single connection point for a connection to a server.

2.10 Racks: Provide a 19" wall-mounted rack for mounting of the patch panels. The rack shall be mounted on the TDBB.

PART 3 – EXECUTION

3.1 Provide a 1" conduit extending from each outlet box to a point above the nearest accessible ceiling. Terminate the conduit with a protective bushing.

3.2 Route conductors from the outlet box, above the lay-in ceilings, and to the telephone and data backboard. Group, tie-wrap, and support the conductors from the structural ceiling above the lay-in ceiling. Provide conduit for sleeves where cables pass through areas with hard ceilings.

3.3 Provide a minimum of two data cables to each data outlet or combination telephone/data outlet. Provide one cable to each telephone outlet.

3.4 Mount plywood backboard securely to wall framing members. The bottom of the backboard shall be 6" above the finished floor.

3.5 Provide a #6 copper ground wire in 1" PVC conduit from the Telephone and Data Backboard to the Building Power System Ground.

3.6 Service Conduits: Provide two 4" PVC conduits with long radius elbows from the Telephone and Data Backboard to the telephone company right of way. Conduits bends shall contain radii that are no less than 10 times the conduit diameter. Furnish conduits with pullstrings. Stub conduits up 4" above the floor at the Telephone and Data Backboard and cover with plastic caps. Do not glue the caps on the conduits. Seal conduits below

grade to prohibit the entrance, of dirt, water, and gases. Service conduits shall be buried 24” to 36” below grade. Mark the end of the conduits by placing a vertical stick of conduit from the end of the conduit vertically to a point at least 12” above grade. Provide physical protection as well as warning tape attached to stakes around the marker.

3.7 Equip all spare conduits with a pullwire or string capable of withstanding 200 pounds of pulling tension.

3.8 Uniquely identify and label all cables at each end using EIA/TIA Standards. Provide engraved or professionally stenciled label markings on the faceplate beside each jack.

3.9 Test each cable for opens, shorts, correct pairs, crossed wiring, and proper termination using a CT200 tester from Atcom Services, Inc. or approved equal. Replace any cable that is unable to pass the tests. Provide a written log of the test results of each cable to the Engineer at the prefinal inspection. Demonstrate testing of any cables selected by the Engineer.

END OF SECTION