



NORTH
FLOOR PLAN LOW VOLTAGE
 SCALE: 1/4" = 1'-0"

- LOW VOLTAGE GENERAL NOTES:**
- ALL DATA CABLE SHALL BE CAT5E.
 - ALL COAXIAL CABLE SHALL BE RG6 (QUAD SHIELDED).
 - ALL DATA AND COAXIAL CABLES SHALL HAVE MINIMUM 10' SERVICE COIL ABOVE CEILING, 2' MINIMUM COILED IN UTILITY BOX, AND 20' COILED AT PHONE CABINET.
 - HOME RUN ALL DATA AND COAXIAL CABLES TO PHONE CABINET LOCATED IN THE (BREAK ROOM) UNLESS OTHERWISE NOTED.
 - CLEARLY LABEL ALL CABLES AT BOTH ENDS.
 - VERIFY ALL EXPOSED CONDUIT ROUTING WITH ARCHITECT/ENGINEER WHERE CONDUIT IS EXPOSED IN FINISHED ROOMS.
 - ALL RACEWAYS (CONDUITS, PULL STRINGS, WOOD CHASES) ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR OR MILLWORK CONTRACTOR.
 - ONELINE DIAGRAMS AND RISER DIAGRAMS ARE DIAGRAMATIC REPRESENTATION TO AID THE CONTRACTOR IN UNDERSTANDING THE FUNCTION AND OPERATION OF THE SYSTEMS. E.C. SHALL REVIEW THE ONELINES, RISERS AND RACEWAY PLANS FOR THE CORRECT QUANTITIES AND LOCATION OF ALL EQUIPMENT. E.C. SHALL FURNISH AND INSTALL ALL EQUIPMENT SHOWN ON ANY OR ALL OF THESE DIAGRAMS AND DRAWINGS. DETAILED WIRING DIAGRAMS SHOWING ACTUAL WIRING FOR THE SYSTEMS FURNISHED SHALL BE A PART OF THE SHOP DRAWING SUBMITTAL.
 - DEVICE LOCATIONS MAY BE DISTORTED FOR CLARITY. LOCATED DEVICES SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS.
 - CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO VERIFY SPACES ARE CLEAR OF OBSTRUCTIONS. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITION AT ALL POINTS IN THE BUILDING WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.
 - FURNISH OTHER TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, EQUIPMENT, FRAMES, BOXES, SLEEVE AND OPENINGS NEEDED FOR WORK. FURNISH INFORMATION AND SHOP DRAWINGS TO PERMIT TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
 - SEE HVAC AND PLUMBING PLANS FOR LOCATIONS OF HEATING, VENTILATING, AIR CONDITIONING AND PLUMBING EQUIPMENT. DO NOT REFERENCE ELECTRICAL DRAWINGS FOR EXACT LOCATION.
 - SCHEDULE REQUIRED POWER, TELEPHONE, OR DATA OUTAGES IN OCCUPIED AREAS OF THE BUILDING WITH THE OWNER. CONTRACTOR SHALL WORK UNTIL SERVICE IS RESTORED. OUTAGE WORK SHALL BE DONE AFTER OR BEFORE NORMAL WORKING HOURS, ON WEEKENDS OR HOLIDAYS.

- LOW VOLTAGE PLAN KEYED NOTES:**
- ① ONE (1) DATA CABLE BETWEEN PANORAMIC X-RAY UNIT TO JUNCTION BOX IN DIGITAL ALCOVE AND TO TWO (2) DATA CABLES TO TELEPHONE CABINET.
 - ② PROVIDE ONE (1) 6FT RAPID RUN CABLE FROM COMPUTER TO MONITOR.
 - ③ ONE (1) RAPID RUN CABLE BETWEEN UTILITY CENTER AND COMPUTER WORK STATION. INSTALL IN 2" UNDERGROUND CONDUIT. CONDUIT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE DETAIL #3 OR #4/SHEET E2.0 AS NOTED IN FLOOR PLANS.
 - ④ FOUR (4) COAX CABLES BETWEEN PHONE CABINET AND SATELLITE DISH. ALL ROOF PENETRATIONS ARE BY GENERAL CONTRACTOR. SATELLITE DISH FURNISHED AND INSTALLED BY ASPEN DENTAL MANAGEMENT INC.
 - ⑤ PROVIDE 1" CONDUIT IN WALL TO ACCESSIBLE CEILING. SEE DETAIL #3/ SHEET E2.0.
 - ⑥ THREE (3) DATA CABLES FROM MECHANICAL ROOM DEMARK TO PHONE CABINET. INSTALL ABOVE CEILING.
 - ⑦ 2" PVC CONDUIT BELOW FINISHED GRADE PROVIDED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
 - ⑧ ROUTE ONE (1) COAX CABLE ABOVE CEILING FROM PHONE CABINET TO LOW VOLTAGE JUNCTION UNDER COUNTER AND THEN RUN THROUGH 2" UNDERGROUND CONDUIT TO UTILITY CENTER. SEE DETAIL #7/MD FOR UTILITY CENTER INFORMATION.
 - ⑨ ONE (1) 10FT RAPID RUN CABLE BETWEEN COMPUTER WORK STATION AND WALL MOUNT VIEW SCREEN. CONDUIT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - ⑩ ROUTE DATA THROUGH SAME JUNCTION BOX AS SHOWN ON E1.1P. SEE KEYED NOTE 18 ON E1.1P.

LEGEND

NOTE-ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	IDENTIFICATION
COMMUNICATION	
☐	TELEPHONE OUTLET, 1" C. STUB INTO ACCESSIBLE SPACE, MOUNT 18" AFF TO CENTER W = WALL MOUNT 52" AFF TO CENTER
☐ X	DATA OUTLET, 1" C STUB INTO ACCESSIBLE SPACE, MOUNT 18" AFF TO CENTER X = NUMBER OF DATA DROPS PER BOX
☐	RAPID RUN CABLE INSTALL RAPID RUN CABLE FOR EACH SYMBOL SHOWN.
☐	UTILITY CENTER FURNISHED BY G.C.

RESPONSIBILITY MATRIX (LV)

ITEM	DESCRIPTION	FURNISHED BY	PRODUCT INFO	SUPPLIER INFO	REMARKS
CONDUITS/CHASES/BOXES	PER PLAN	EC	-	-	
DATA CABLES (PROVIDED AND INSTALLED)	CAT5E	EC	-	-	
DATA CABLES TERMINATIONS, JACKS AND FACEPLATES	CAT5E	ADMI/LV	-	-	
COAX CABLES (PROVIDED AND INSTALLED)	RG6 (QUAD SHIELDED)	EC	-	-	
COAX CABLES TERMINATIONS, JACKS AND FACEPLATES	RG6 (QUAD SHIELDED)	ADMI/LV	-	-	
RAPID RUN CABLES	CABLE ASSEMBLY	GC/EC	6' LENGTH - 60000 10' LENGTH - 60001 15' LENGTH - 60002 25' LENGTH - 60003 35' LENGTH - 60004 50' LENGTH - 60005	cablestogo.com	
RAPID RUN CABLE TERMINATION	(BOTH ENDS)	GC/EC	COUPLER MALE/MALE - 42058	-	
ROOF PENETRATION	PER PLAN	GC	-	-	

FURNISHED BY:
 LV = LOW VOLTAGE CONTRACTOR
 EC = ELECTRICAL CONTRACTOR
 ADMI = ASPEN DENTAL MANAGEMENT INC
 GC = GENERAL CONTRACTOR

COORDINATE LOCATION OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

DIVISION 27 COMMUNICATIONS

27 05 00. TELECOMMUNICATION PREMISE WIRING

- A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO IS A REGISTERED COMMUNICATION DISTRIBUTION DESIGNER CERTIFIED BY THE BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL.
- B. QUALITY CONTROL:
1. COMPLY WITH NFPA 70.
 2. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
 3. SYSTEM REQUIREMENTS: COORDINATE THE FEATURES OF MATERIALS AND EQUIPMENT TO FORM AN INTEGRATED SYSTEM. MATCH COMPONENTS AND INTERCONNECTIONS TO OBTAIN FUTURE PERFORMANCE.
 4. CONTRACTOR SHALL TEST EACH CABLE TO INSURE THAT THE INSTALLATION MEETS THE IATIA STANDARDS. THREE COPIES OF THIS REPORT SHALL BE PROVIDED TO THE OWNER AS PART OF RECORD DRAWINGS.
- C. ABBREVIATIONS:
1. EIA - ELECTRONIC INDUSTRIAL ALLIANCE
 2. IDC - INTERNATIONAL DATA CORPORATION
 3. IDF - INTERMEDIATE DISTRIBUTION FRAME (CLOSET)
 4. MDF - MAIN DISTRIBUTION FRAME (CLOSET)
 5. PVC - POLYVINYL CHLORIDE
 6. STP - SHIELDED TWISTED PAIR (CABLE)
 7. TIA - TELECOMMUNICATION INDUSTRY ASSOCIATION
 8. UTP - UNSHIELDED TWISTED PAIR (CABLE)
- D. RACEWAYS AND BOXES: FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- E. BRANCH CABLES:
1. TWISTED-PAIR CABLES, CONNECTORS, AND TERMINAL EQUIPMENT: LISTED AS COMPLYING WITH CATEGORIES SE OF EIA/TIA-568-A.
 - a) CONDUCTORS: SOLID COPPER.
 - b) COLOR: BLUE.
 - c) UTP CABLE: COMPLY WITH EIA/TIA-568-A. FOUR THERMOPLASTIC-INSULATED, INDIVIDUALLY TWISTED PAIRS OF CONDUCTORS, NO. 24 AWG, COLOR-CODED, ENCLOSED IN PVC JACKET.
 - d) UTP PLENUM CABLE: LISTED FOR USE IN AIR-HANDLING SPACES. FEATURES ARE AS SPECIFIED ABOVE, EXCEPT MATERIALS ARE MODIFIED AS REQUIRED FOR LISTING.
 2. CABLE LABELS: SELF-ADHESIVE VINYL OR VINYL-CLOTH WRAP AROUND TAPE MARKERS, MACHINE PRINTED WITH ALPHANUMERIC CABLE DESIGNATIONS.
- H. WIRING METHOD:
1. INSTALL WIRING IN RACEWAY AND CABLE TRAY EXCEPT WITHIN CONSOLES, CABINETS, DESKS, AND COUNTERS EXCEPT IN ACCESSIBLE CEILING SPACES AND IN GYPSUM BOARD PARTITIONS WHERE

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COLLABORATION
AspenDental

PROJECT INFORMATION

TENANT BUILD-OUT FOR:
ASPEN DENTAL
 ~121150 FRONTAGE ROAD • MURRELLS INLET, SC 29576

PROFESSIONAL SEAL

SHEET DATES

ISSUE DATE	MAR. 16, 2020
REVISIONS	

JOB NUMBER

1860160

SHEET NUMBER

E1.1LV