

TECHNOLOGY SYSTEMS GENERAL NOTES, CONDUIT ROUTING NOTES, AND ABBREVIATIONS

GENERAL NOTES	CONDUIT ROUTING NOTES	ABBREVIATIONS
<p>1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.</p> <p>2. WORKING CLEARANCES AROUND EQUIPMENT, RACKS, AND CABINETS SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110 AND OSHA. COORDINATE INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.</p> <p>3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS SUCH, THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET: A. THE OUTLET BOX SHALL BE METALLIC. B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE. C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 18 SQUARE INCHES. D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT. E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED. F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET. G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD. I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.</p> <p>4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE OWNER, ARCHITECT, PROJECT GC, AND APPROPRIATE TRADE PRIOR TO INSTALLATION.</p> <p>5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL, REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE COMPLETED PRIOR TO ANY ROUGH-IN NOTIFY ENGINEER OR ANY DISCREPANCY.</p> <p>6. CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.</p> <p>7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH OWNER AND ARCHITECT.</p> <p>8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 AND 28 DEVICES WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.</p> <p>9. ALL RACEWAY SYSTEMS INCLUDING CONDUITS, PULL STRINGS, AND BACK BOXES, TO SUPPORT THE INSTALLATION OF DIVISION 27 AND 28 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.</p> <p>10. ELECTRICAL CONTRACTOR TO PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.</p> <p>11. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A DOUBLE GANG OUTLET BOX 4-11/16 INCHES X 4-11/16 INCHES X 3/4 INCHES WITH A SINGLE GANG PLASTER RING AND 1/16 ONE INCH CONDUIT, UNLESS OTHERWISE NOTED. STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.</p> <p>12. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A CONDUIT WITH PULL STRING, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED.</p> <p>13. EACH TECHNOLOGY FLOOR BOX MOUNTED ON THE FIRST FLOOR WITH A VOICEDATA OUTLET SHALL HAVE A DOUBLE GANG SPACE WITHIN THE FLOOR BOX AND 1 INCH CONDUIT CONCEALED IN SLAB FROM THE OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.</p> <p>14. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR THE STRUCTURE CABLING SYSTEM SHALL BE IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.</p> <p>15. CABLE WITHIN UNDER SLAB ON GRADE USE OSP GEL-FILLED CABLES.</p> <p>16. ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW AND CARRY A ONE YEAR MANUFACTURER'S WARRANTY. WARRANTY SHALL START ONE DAY AFTER OWNERS ACCEPTANCE OF THE PROJECT.</p> <p>17. CONTRACTOR TO PROVIDE AND INSTALL FIRE STOPPING IN ALL CONDUITS PENETRATING RATED WALLS AFTER CABLING IS INSTALLED AND PROVIDE PHOTOGRAPHIC EVIDENCE OF COMPLIANCE WITH CODE, PLANS, AND SPECIFICATIONS.</p> <p>18. ROUTE CABLING FOR EACH TECHNOLOGY SYSTEM BACK TO LOCAL HEAD-END TERMINATION BOARD OR CABINET AS SHOWN ON THE PLANS AND SPECIFICATIONS.</p> <p>19. PROVIDE AND INSTALL TECHNOLOGY SYSTEMS CABLEWORKING AS RECOMMENDED BY THE MANUFACTURER, APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFICATIONS WHERE CONFLICT EXISTS, THE LARGER SIZE SHALL BE USED.</p> <p>20. TECHNOLOGY CABLES SHALL BE GROUPED IN BUNDLES OF 48 CABLES OR LESS.</p> <p>21. TO AVOID EMI PROVIDE CLEARANCES OF THE FOLLOWING MINIMUM DISTANCES: A. 4" FROM MOTORS AND TRANSFORMERS B. 1" FROM ELECTRICAL CONDUITS USED FOR POWER DISTRIBUTION C. 1" FROM FLUORESCENT LIGHTING FIXTURES</p> <p>22. TECHNOLOGY PATHWAYS SHALL CROSS FLUORESCENT FIXTURES AND POWER CONDUITS PERPENDICULARLY WITH PROPER SEPARATION.</p> <p>23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL WORK AND EQUIPMENT IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS FOR A COMPLETE SOLUTION OF MULTIPLE, FULLY FUNCTIONAL TECHNOLOGY SYSTEMS AS DESCRIBED WITHIN THIS PACKAGE.</p>	<p>1. ONLY EMT OR RIGID SHALL BE USED FOR ALL CONDUIT INSTALLATIONS ABOVE GRADE.</p> <p>2. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 36 INCHES BELOW GRADE. MAINTAIN A MINIMUM OF 1 FOOT (12 INCHES) OF SEPARATION BETWEEN POWER CONDUITS AND TECHNOLOGY SYSTEMS CONDUITS.</p> <p>3. CONTRACTOR SHALL PROVIDE A MINIMUM 24 INCHES AGGREGATE BASE BELOW EACH MANHOLE, OR HANDHOLE.</p> <p>4. ALL CONDUIT ENTRY PENETRATION POINTS INTO MUST BE PROPERLY SEALED AND PACKED TO PREVENT GASES OR RODENT INTRUSION.</p> <p>5. ALL MANHOLES, VAULTS, AND PULL BOXES MUST HAVE TRAFFIC RATED COVERS MINIMUM 20,000 LBS RATED.</p> <p>6. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS AND PLASTIC BUSHINGS ON THE ENDS.</p> <p>7. ALL CONDUITS BETWEEN BUILDINGS, MANHOLES, AND/OR VAULTS SHALL BE SLOPED DOWN AT 1% FROM THE BUILDING OR CENTER POINT BETWEEN VAULTS.</p> <p>8. ALL UNDERGROUND CONDUITS SHALL BE CLEANED USING A MANROPE AFTER INSTALLATION AND PRIOR TO SYSTEM TURN-OVER.</p> <p>9. TECHNOLOGY SYSTEM PATHWAYS IN ACCESSIBLE CEILING SPACES MAY BE PROVIDED UTILIZING DEDICATED CABLE SUPPORTS RATED FOR THE RESPECTIVE CEILING SPACE (PLENUM OR NON-PLENUM) AND INSTALLED PER APPLICABLE CODES AND STANDARDS. FOR NON-ACCESSIBLE CEILING SPACES A CONTINUOUS PATHWAY, CONDUITS SHALL BE PROVIDED.</p> <p>10. ALL PATHWAYS SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURERS AND APPLICABLE CODES AND STANDARDS. NO PATHWAY CABLE FILL SHALL EXCEED 40% FILL.</p> <p>11. FIRE ALARM, SECURITY, ACCESS CONTROL, CLOSED CIRCUIT VIDEO SURVEILLANCE, AND CABLING SHALL BE INSTALLED IN COLOR CODED AND LABELED CONDUITS AND JUNCTION BOXES, UNLESS OTHERWISE NOTED.</p> <p>12. INTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH PULL BOXES AT A MINIMUM OF EVERY 100 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.</p> <p>13. EXTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH HANDHOLES AT A MINIMUM OF EVERY 300 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.</p> <p>14. BACKBONE RACEWAYS SHALL HAVE A MINIMUM SIZE OF 2 INCHES.</p> <p>15. HORIZONTAL RACEWAYS SHALL HAVE A MINIMUM SIZE OF 3/4 INCHES.</p> <p>16. SLEEVES SHALL BE INSTALLED ABOVE CEILINGS IN ALL WALLS, RATED OR NOT. SLEEVES SHALL BE SIZED AND IN THE QUANTITIES TO SUPPORT THE NUMBER OF CABLES AND FILL IS NOT TO EXCEED 40%.</p> <p>17. THE USE OF SURFACE MOUNTED RACEWAYS IN NEW CONSTRUCTION IS NOT ACCEPTABLE. ALL SURFACE MOUNTED RACEWAY INSTALLATION MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.</p> <p>18. WHEN INSTALLED IN ACCESSIBLE CEILING SPACES, APPROVED HOOKS SHALL BE INSTALLED TO CONFORM WITH BUILDING LINES AND BE SPACED TO NO MORE THAN 5 FEET APART. PROVIDE TWO HOOKS AT 90 DEGREE CORNERS.</p> <p>19. CABLE BUNDLES SHALL BE SECURED WITH VELCRO EVERY 2 FEET AND SHALL ALSO BE SECURED TO HOOKS.</p> <p>20. CABLE SAG BETWEEN HOOKS SHALL NOT EXCEED 2 INCHES.</p> <p>21. EACH TECHNOLOGY SYSTEM CABLING SHALL BE BUNDLED SEPARATELY AND SHALL HAVE SEPARATE SUPPORT BRACKETS.</p> <p>22. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES, OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS, THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYPAD ALIKE.</p>	<p>AC ACCESS CONTROL (SECURITY)</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>ANUN ANNUIN</p> <p>ARCH ARCHITECT</p> <p>AV AUDIO VISUAL</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>BAS BUILDING AUTOMATED SYSTEMS</p> <p>BFC BELOW FINISHED CEILING</p> <p>BICSI BUILDING INDUSTRY CONSULTANT SERVICES INTERNATIONAL BUILDING</p> <p>BLDG BUILDING</p> <p>C CONDUIT</p> <p>CA CARD ACCESS (SECURITY)</p> <p>CAB CABINET</p> <p>CATV CATEGORY</p> <p>COMM COMMUNITY ACCESS TELEVISION</p> <p>CCTV CLOSED CIRCUIT TV (SECURITY)</p> <p>CKT CIRCUIT</p> <p>CU COPPER</p> <p>DEMARK SERVICE PROVIDER TERMINATION DOWN</p> <p>DN DOWN</p> <p>E EXISTING</p> <p>ER EQUIPMENT ROOM</p> <p>ERL EXISTING TO BE RELOCATED</p> <p>ETK EXISTING TO REMAIN</p> <p>EXT INTERNAL OUTLET FOR EXTERNAL DEVICE</p> <p>FA FIRE ALARM</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FDB FURNISHED BY OTHERS</p> <p>FT FEET</p> <p>GND GROUND</p> <p>GEN GENERATOR</p> <p>GFI GROUND FAULT INTERRUPT</p> <p>HC HORIZONTAL CROSS CONNECT</p> <p>HDMI HIGH DEFINITION MEDIA INTERFACE</p> <p>IG INTERMEDIATE DISTRIBUTION FRAME</p> <p>ISOLATED GROUND</p> <p>KVA KILOVOLT - AMPERES</p> <p>KW KILOWATTS</p> <p>MCC MOTOR CONTROL CENTER</p> <p>MCM THOUSAND CIRCULAR MILS</p> <p>MDF MAIN DISTRIBUTION FRAME</p> <p>MISC MISCELLANEOUS</p> <p>NEC NATIONAL ELECTRICAL CODE</p> <p>NC NORMALLY CLOSED</p> <p>NO NORMALLY OPEN</p> <p>NOT TO SCALE</p> <p>NIC NOT IN CONTRACT</p> <p>OC ON CENTER LINE</p> <p>OF OWNER FURNISHED</p> <p>OFI OWNER FURNISHED OWNER INSTALLED</p> <p>OFCI OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>OFCO OWNER FURNISHED OWNER'S VENDOR INSTALLED</p> <p>PDS PREMISE DISTRIBUTION SYSTEM</p> <p>PM PROJECT MANAGER</p> <p>POS POINT OF SALE</p> <p>PAK TEL ZOOM CAMERA</p> <p>PVC POLYVINYL CHLORIDE</p> <p>R RECESSED</p> <p>RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>RGB 15 PIN AV CONNECTOR</p> <p>RR RACK</p> <p>SATV SATELLITE TV SOURCE</p> <p>SURF SURFACE</p> <p>SVGA 15 PIN AV CONNECTOR</p> <p>TGB TELCOM GND BUS BAR</p> <p>TMOB TELCOM MAIN GND BUS BAR</p> <p>TSER TELECOMMUNICATIONS SERVICE</p> <p>TV TELEVISION</p> <p>UNIV UNIVERSAL</p> <p>UNON UNLESS OTHERWISE NOTED</p> <p>USB UNIVERSAL SERIAL BUS</p> <p>USC UNDER SEPARATE CONTRACT</p> <p>UTP UNIFORM TWISTED PAIRS</p> <p>VGA 15 PIN AV CONNECTORS</p> <p>W WALL MOUNTED</p> <p>WAP WIRELESS ACCESS POINT</p> <p>WP WEATHERPROOF</p> <p>ADDITIONAL ABBREVIATIONS MAY BE USED AND IDENTIFIED IN THE SPECIFICATIONS OR DRAWINGS.</p>

TECHNOLOGY SYSTEMS SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. ALL DETAILS FOR EACH SYMBOL ARE INDICATED BELOW UNLESS OTHERWISE NOTED ELSEWHERE ON THE DRAWINGS. SEE ABBREVIATIONS FOR ADDITIONAL LABELS THAT MAY BE USED.

<p>DATA/TELEPHONE DISTRIBUTION</p> <p>▽ DATA OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF, FLUSH MOUNTED.</p> <p>▽ DATA OUTLET, FLUSH MOUNTED IN RECESSED WALL BOX. SEE POWER DRAWINGS AND SPECIFICATIONS FOR RECEPTACLE TYPES AND WALL BOX SPEC.</p> <p>▽ DATA OUTLET, FLUSH MOUNTED IN RECESSED FLOOR BOX. SEE POWER DRAWINGS AND SPECIFICATIONS FOR RECEPTACLE TYPES AND FLOOR BOX SPEC.</p> <p>▽ DATA OUTLET, FLUSH MOUNTED IN CEILING.</p> <p>▽ TELEPHONE OUTLET, FLUSH MOUNTED IN WALL AT 48" AFF.</p> <p>▽ TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.</p> <p>▽ DATA/TELEPHONE OUTLET, FLUSH MOUNTED IN WALL AT 48" AFF.</p> <p>▽ DATA/TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.</p> <p>⊙ WIRELESS ACCESS POINT, FLUSH MOUNTED IN CEILING, TERMINATION ABOVE CEILING.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE DATA/TELEPHONE DISTRIBUTION SECTION AS NOTED IN THE DESIGN: (DB) PROVIDE FACEPLATE WITH NUMBER OF DATA PORTS AS SHOWN. ALL FACEPLATES SHALL HAVE 5 SPACES FOR TERMINATION MODULES. (W) TELEPHONE WALL MOUNT PLATE WITH LUGS FOR MOUNTING PHONE TO WALL. (M) MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSLASH. MAXIMUM 48" AFF. (F) MOUNTED 96" OC AFF BEHIND FLAT PANEL DISPLAY. (A) MOUNTED ABOVE CEILING.</p>	<p>INTERCOM SYSTEM</p> <p>⊙ INTERCOM SPEAKER, CEILING MOUNTED.</p> <p>⊙ INTERCOM SPEAKER, WALL MOUNTED AT 24" OC BFC.</p> <p>⊙ INTERCOM SPEAKER, HORN, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.</p> <p>⊙ INTERCOM SPEAKER, FLEXHORN, VANDAL-RESISTANT, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.</p> <p>⊙ INTERCOM CALL SWITCH, FLUSH MOUNTED IN RACEWAY.</p> <p>⊙ INTERCOM VOLUME CONTROL, FLUSH MOUNTED IN RACEWAY.</p> <p>⊙ INTERCOM DOOR BELL CAMERA, SURFACE MOUNTED AT 48" AFF. CONNECTED TO DSS SYSTEM. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE INTERCOM SYSTEM SECTION AS NOTED IN THE DESIGN: (O) ONE-WAY DEVICE (T) TALKBACK DEVICE (IP) IP SOUNDPOINT, ONE-WAY DEVICE (IT) IP SOUNDPOINT, TALKBACK DEVICE (L) LAY-IN, RECESSED MOUNTED (R) ROUND, FLUSH MOUNTED (S) SQUARE, FLUSH MOUNTED (V) VANDAL-RESISTANT ANGLE ENCLASURE WITH SPEAKER, SURFACE MOUNTED. (SD) SMALL TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL. (LSD) LARGE TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL. (S) 5 WATT HORN (15) 15 WATT HORN (C) COMPACT FLEXHORN WITHOUT ENCLASURE, SURFACE MOUNTED. (E) EMERGENCY ONLY CALL SWITCH (NE) NORMAL EMERGENCY CALL SWITCH (N) NOISE-SENSING DEVICE. SHALL BE ACCOMPANIED WITH REMOTE MICROPHONE FOR WORKING SYSTEM (EXACT LOCATIONS AND QUANTITIES TO BE CONFIRMED AND LOCATED BY PRINCIPAL AND PM).</p>
<p>AUDIO/VISUAL SYSTEM</p> <p>⊙ SPEAKER, CEILING MOUNTED.</p> <p>⊙ SPEAKER, WALL MOUNTED AT 24" OC BFC.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE AUDIO/VISUAL SYSTEM SECTION AS NOTED IN THE DESIGN: (C) MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSLASH. MAXIMUM 48" AFF. (F) MOUNTED 96" OC AFF BEHIND FLAT PANEL DISPLAY. (L) LAY-IN, RECESSED MOUNTED. (R) ROUND, FLUSH MOUNTED. (S) SQUARE, FLUSH MOUNTED.</p>	<p>PAGING SYSTEM</p> <p>⊙ PAGING SPEAKER, CEILING MOUNTED.</p> <p>⊙ PAGING SPEAKER, WALL MOUNTED AT 24" OC BFC.</p> <p>⊙ PAGING MICROPHONE, SURFACE MOUNTED TO TABLETOP. SEE ARCHITECTURAL DRAWINGS FOR FURNITURE LOCATION AND MOUNTING HEIGHT.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE PAGING SYSTEM SECTION AS NOTED IN THE DESIGN: (L) LAY-IN, RECESSED MOUNTED. (R) ROUND, FLUSH MOUNTED. (S) SQUARE, FLUSH MOUNTED.</p>
<p>TELEVISION SYSTEM</p> <p>TV TELEVISION OUTLET, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN WALL AT 18" OC AFF.</p> <p>TV TELEVISION OUTLET, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN CEILING.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE TELEVISION SYSTEM SECTION AS NOTED IN THE DESIGN: (C) MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSLASH. MAXIMUM 48" OC AFF. (F) MOUNTED 96" OC AFF BEHIND FLAT PANEL DISPLAY. (A) MOUNTED ABOVE CEILING.</p>	<p>CARD ACCESS SYSTEM</p> <p>CR CARD READER, SURFACE MOUNTED TO WALL AT 48" AFF.</p> <p>BR BIOMETRIC READER, SURFACE MOUNTED TO WALL AT 48" AFF.</p> <p>PR PUSH BUTTON, SURFACE MOUNTED TO WALL AT 48" AFF.</p> <p>DP DOOR POSITION SWITCH, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR.</p> <p>EL ELECTRONIC LOCK, MOUNTED ON OR IN PLACE OF DOOR HANDLE. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.</p> <p>ES ELECTRONIC STRIKE, MOUNTED ONTO FRAME OF DOORWAY. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE CARD ACCESS SYSTEM SECTION AS NOTED IN THE DESIGN: (K) CARD READER W/KEYPAD. READER SHALL ALLOW KEYPAD ENTRY AS A SUBSTITUTE IN CASE CARDBADGE/FOETIC IS MISSING OR LOST.</p>
	<p>VIDEO SURVEILLANCE SYSTEM</p> <p>CV SURVEILLANCE CAMERA, SURFACE MOUNTED TO POLE AT 96" OC AFF.</p> <p>CV SURVEILLANCE CAMERA, SURFACE MOUNTED TO WALL AT 96" OC AFF.</p> <p>CV SURVEILLANCE CAMERA, SURFACE MOUNTED TO CEILING.</p> <p>VM VIDEO MONITOR OUTLET, FLUSH MOUNTED BEHIND DISPLAYS FOR TIE-IN WITH CCTV CAMERAS.</p> <p>THE FOLLOWING ARE APPLICABLE TO THE ABOVE VIDEO SURVEILLANCE SYSTEM SECTION AS NOTED IN THE DESIGN: (P) PANEL TIDROOM (W) WEATHERPROOF (D) DOME CAMERA (B) BULLET CAMERA (F) PROVIDE CAMERA WITH APPROXIMATE HORIZONTAL FIELD OF VIEW AS SHOWN ON THE FLOOR PLAN.</p>



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This item has been electronically signed and sealed by Kyriakos Latsios. P.E. on 01/05/2024 using a Digital Signature.
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GENERAL NOTES & DESIGN CRITERIA - TECHNOLOGY



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

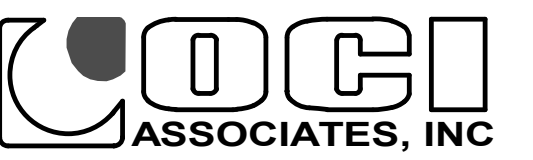
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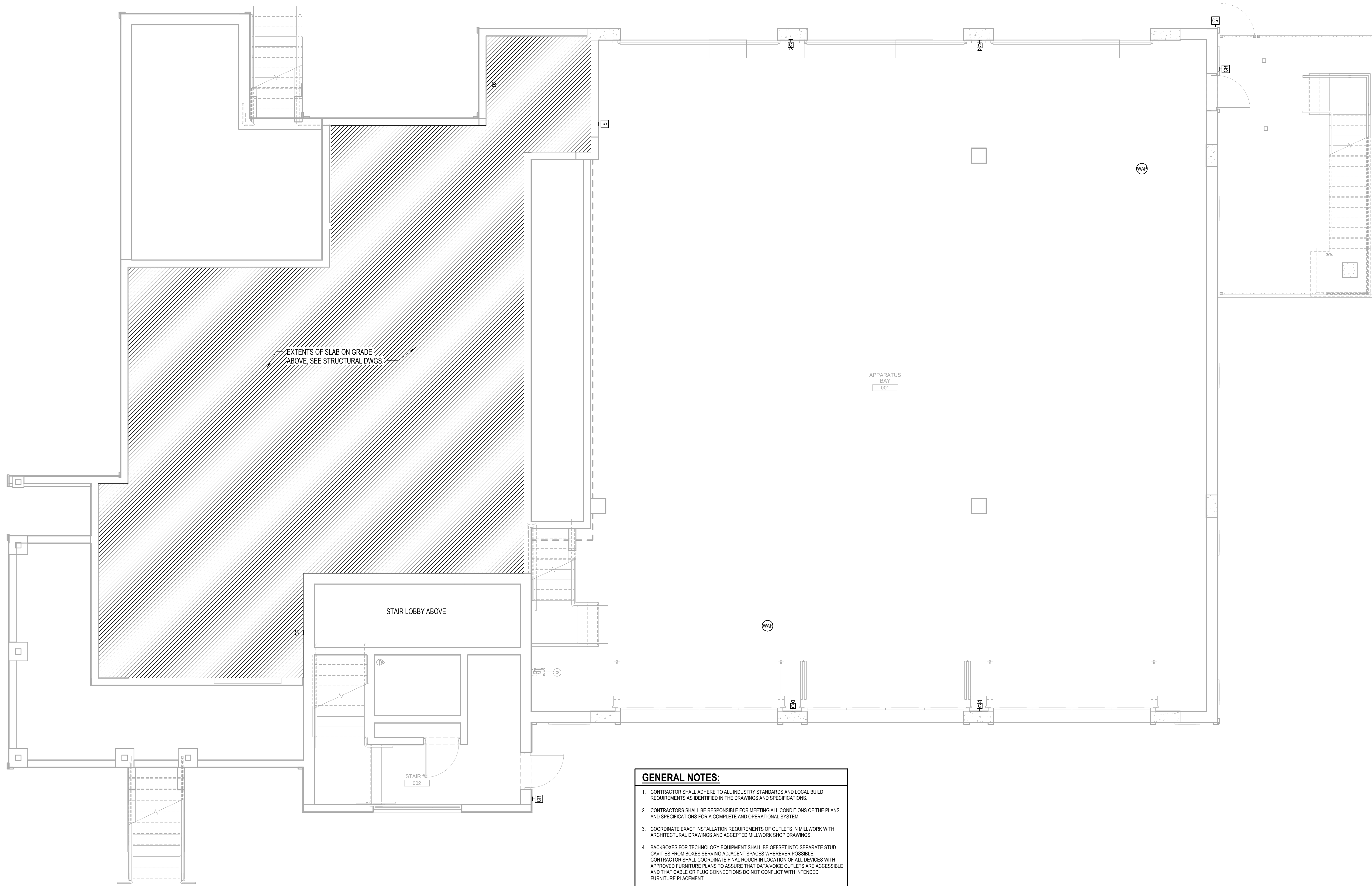


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- GENERAL NOTES:**
- CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
 - CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
 - BACKBOXES FOR TECHNOLOGY EQUIPMENT SHALL BE OFFSET INTO SEPARATE STUD CAVITIES FROM BOXES SERVING ADJACENT SPACES WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE FINAL ROUGH-IN LOCATION OF ALL DEVICES WITH APPROVED FURNITURE PLANS TO ASSURE THAT DATA/VOICE OUTLETS ARE ACCESSIBLE AND THAT CABLE OR PLUG CONNECTIONS DO NOT CONFLICT WITH INTENDED FURNITURE PLACEMENT.
 - COORDINATE THE LOCATION OF VOICE/DATA/AV OUTLETS WITH POWER RECEPTACLES WHERE EQUIPMENT SHALL BE SERVED BY MULTIPLE SYSTEMS. COORDINATE WITH POWER DRAWINGS.
 - RACEWAY, TECHNOLOGY, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26 AND 27. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
 - ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
 - ALL RACEWAYS AND CABLE INSTALLED IN FINISHED SPACES SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
 - REFER TO MANUFACTURER OF EACH EQUIPMENT ITEM FOR EXACT DATA REQUIREMENTS PRIOR TO ROUGH-IN.
 - ALL LOW VOLTAGE, DATA SECURITY, AND ALERT SYSTEMS SHALL BE COORDINATED WITH SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. PROVIDE ADEQUATE BACK BOXES FOR ALL DEVICES. ALL CONDUITS SHALL BE RUN BACK TO THE IT ROOM.

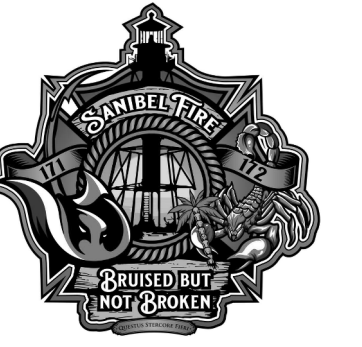
- TECHNOLOGY KEYNOTES**
- PROVIDE (2) 3" CONDUIT WITH PULL STRING FROM RADIO TOWER TO IT ROOM. CONDUIT SHALL RUN OVERHEAD ON BRIDGE TO CLOSEST APPARATUS BAY WALL. RUN VERTICALLY UP TO APPARATUS BAY CEILING CAVITY. RUN HORIZONTALLY TO BELOW IT ROOM. AND TURN UP INTO IT ROOM. FIELD COORDINATE EXACT ROUTING TO AVOID STRUCTURAL ELEMENTS AND ELEMENTS FROM OTHER TRADES. COORDINATE OVERHEAD RUN HEIGHT FROM TOWER TO APPARATUS BAY WALL WITH OWNER.

1 FLOOR PLAN - APPARATUS BAY - TECHNOLOGY

1/4" = 1'-0"

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FLOOR PLAN - APPARATUS BAY - TECHNOLOGY



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

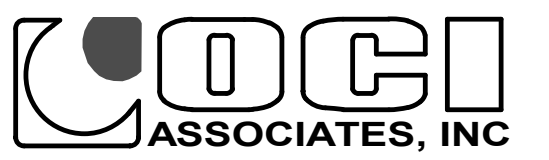
PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms
Circle, Unit 1
Estero, FL 33928
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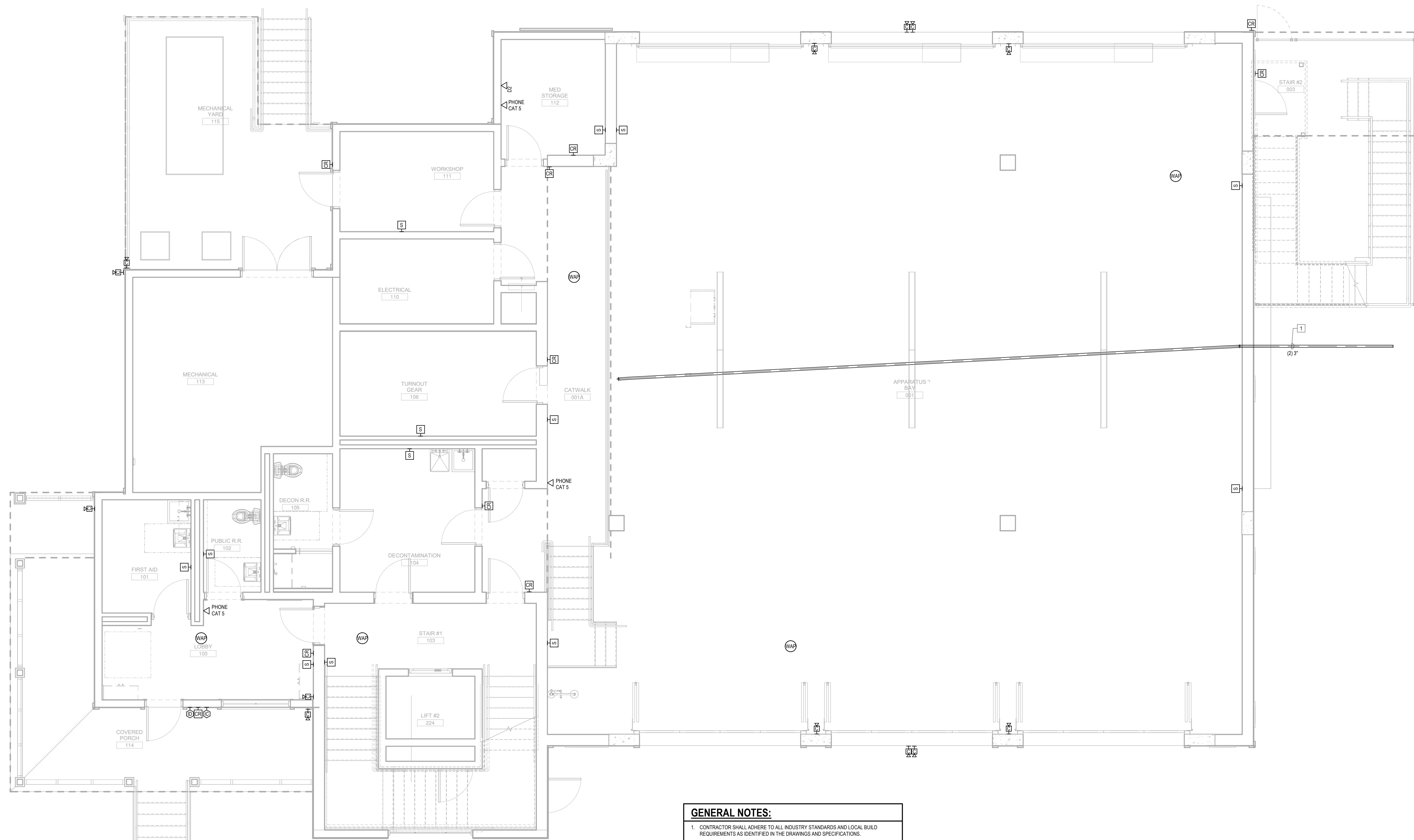


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HYRANOS G. LANTZOS, P.E.
6816 SW 40th Ave
Miami, FL 33155
FL REG. NO. 16986

REVISIONS

MARK	DESCRIPTION	DATE



- GENERAL NOTES:**
- CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
 - CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
 - BACKBOXES FOR TECHNOLOGY EQUIPMENT SHALL BE OFFSET INTO SEPARATE STUD CAVITIES FROM BOXES SERVING ADJACENT SPACES WHEREVER POSSIBLE.
CONTRACTOR SHALL COORDINATE FINAL ROUGH-IN LOCATION OF ALL DEVICES WITH APPROVED FURNITURE PLANS TO ASSURE THAT DATAVOICE OUTLETS ARE ACCESSIBLE AND THAT CABLE OR PLUG CONNECTIONS DO NOT CONFLICT WITH INTENDED FURNITURE PLACEMENT.
 - COORDINATE THE LOCATION OF VOICE/DATA/AV OUTLETS WITH POWER RECEPTACLES WHERE EQUIPMENT SHALL BE SERVED BY MULTIPLE SYSTEMS. COORDINATE WITH POWER DRAWINGS.
 - RACEWAY, TECHNOLOGY, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26 AND 27, WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
 - ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
 - ALL RACEWAYS AND CABLE INSTALLED IN FINISHED SPACES SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
 - REFER TO MANUFACTURER OF EACH EQUIPMENT ITEM FOR EXACT DATA REQUIREMENTS PRIOR TO ROUGH-IN.
 - ALL LOW VOLTAGE, DATA, SECURITY, AND ALERT SYSTEMS SHALL BE COORDINATED WITH SUPPLIERS TALLER PRIOR TO ROUGH-IN. PROVIDE ADEQUATE BACK BOXES FOR ALL DEVICES. ALL CONDUITS SHALL BE RUN BACK TO THE IT ROOM.

- TECHNOLOGY KEYNOTES**
- PROVIDE (2) 3" CONDUIT WITH PULL STRING FROM RADIO TOWER TO IT ROOM. CONDUIT SHALL RUN OVERHEAD ON BRIDGE TO CLOSEST APPARATUS BAY WALL, RUN VERTICALLY UP TO APPARATUS BAY CEILING CAVITY, RUN HORIZONTALLY TO BELOW IT ROOM, AND TURN UP INTO IT ROOM. FIELD COORDINATE EXACT ROUTING TO AVOID STRUCTURAL ELEMENTS AND ELEMENTS FROM OTHER TRADES. COORDINATE OVERHEAD RUN HEIGHT FROM TOWER TO APPARATUS BAY WALL WITH OWNER.

1 FLOOR PLAN - FIRST FLOOR - TECHNOLOGY

1/4" = 1'-0"

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DRAWN BY: Author

**FLOOR PLAN - FIRST FLOOR
- TECHNOLOGY**



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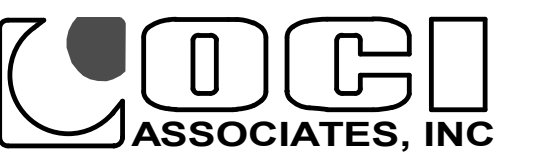
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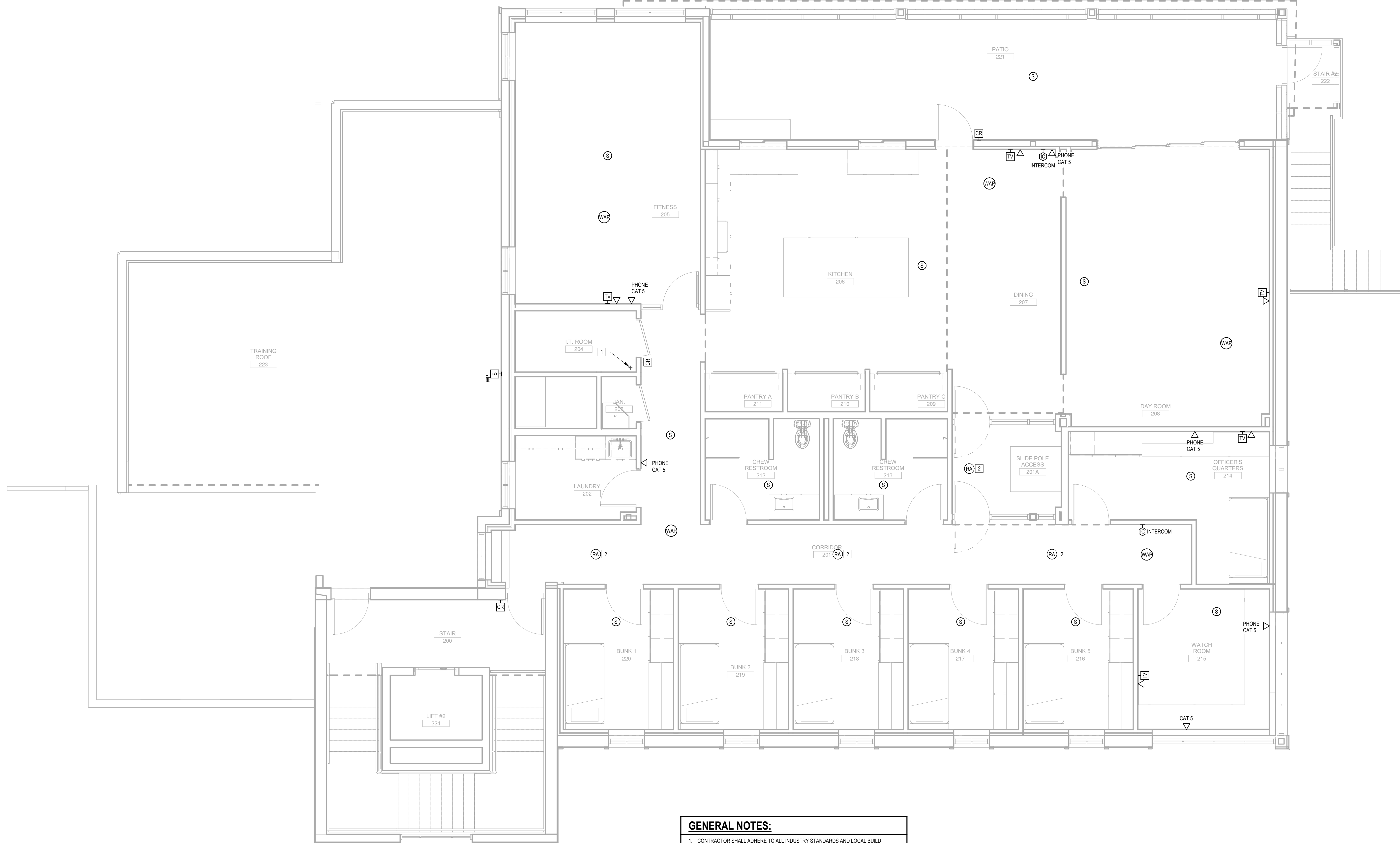


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HYRANOS G. LANTZOS, P.E.
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
FL REG. NO. 16984

REVISIONS

MARK	DESCRIPTION	DATE



- GENERAL NOTES:**
- CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
 - CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
 - BACKBOXES FOR TECHNOLOGY EQUIPMENT SHALL BE OFFSET INTO SEPARATE STUD CAVITIES FROM BOXES SERVING ADJACENT SPACES WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE FINAL ROUGH-IN LOCATION OF ALL DEVICES WITH APPROVED FURNITURE PLANS TO ASSURE THAT DATA VOICE OUTLETS ARE ACCESSIBLE AND THAT CABLE OR PLUG CONNECTIONS DO NOT CONFLICT WITH INTENDED FURNITURE PLACEMENT.
 - COORDINATE THE LOCATION OF VOICE/DATA/TV OUTLETS WITH POWER RECEPTACLES WHERE EQUIPMENT SHALL BE SERVED BY MULTIPLE SYSTEMS. COORDINATE WITH POWER DRAWINGS.
 - RACEWAY, TECHNOLOGY, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26 AND 27. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
 - ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
 - ALL RACEWAYS AND CABLE INSTALLED IN FINISHED SPACES SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
 - REFER TO MANUFACTURER OF EACH EQUIPMENT ITEM FOR EXACT DATA REQUIREMENTS PRIOR TO ROUGH-IN.
 - ALL LOW VOLTAGE, DATA, SECURITY, AND ALERT SYSTEMS SHALL BE COORDINATED WITH SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. PROVIDE ADEQUATE BACK BOXES FOR ALL DEVICES. ALL CONDUITS SHALL BE RUN BACK TO THE IT ROOM.

- TECHNOLOGY KEYNOTES**
- PROVIDE (2) 3" CONDUIT WITH PULL STRING FROM RADIO TOWER TO IT ROOM. CONDUIT SHALL RUN OVERHEAD ON BRIDGE TO CLOSEST APPARATUS BAY WALL, RUN VERTICALLY UP TO APPARATUS BAY CEILING CAVITY, RUN HORIZONTALLY TO BELOW IT ROOM, AND TURN UP INTO IT ROOM. FIELD COORDINATE EXACT ROUTING TO AVOID STRUCTURAL ELEMENTS AND ELEMENTS FROM OTHER TRADES. COORDINATE OVERHEAD RUN HEIGHT FROM TOWER TO APPARATUS BAY WALL WITH OWNER.
 - PROVIDE CONDUIT FROM IT ROOM TO ABOVE CEILING LOCATION FOR ALERT LIGHTING. COORDINATE EXACT LOCATION WITH SUPPLIER/INSTALLER.

1 FLOOR PLAN - SECOND FLOOR - TECHNOLOGY

1/4" = 1'-0"

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DRAWN BY: Author

**FLOOR PLAN - SECOND
FLOOR - TECHNOLOGY**

T102

100% CONSTRUCTION DOCUMENTS