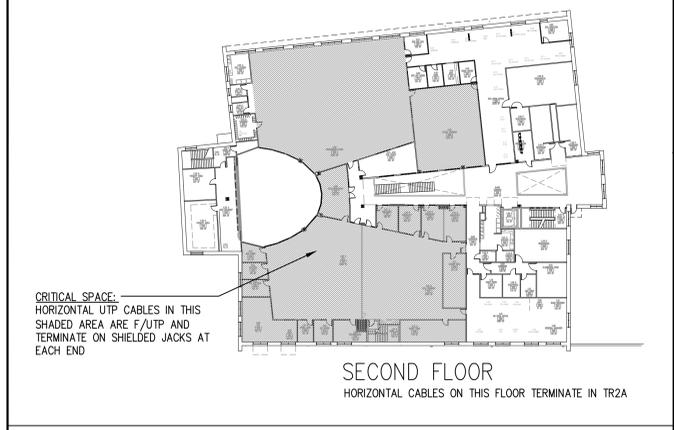
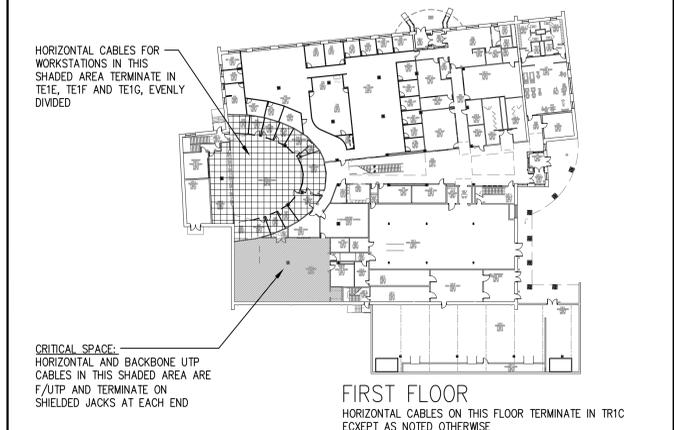


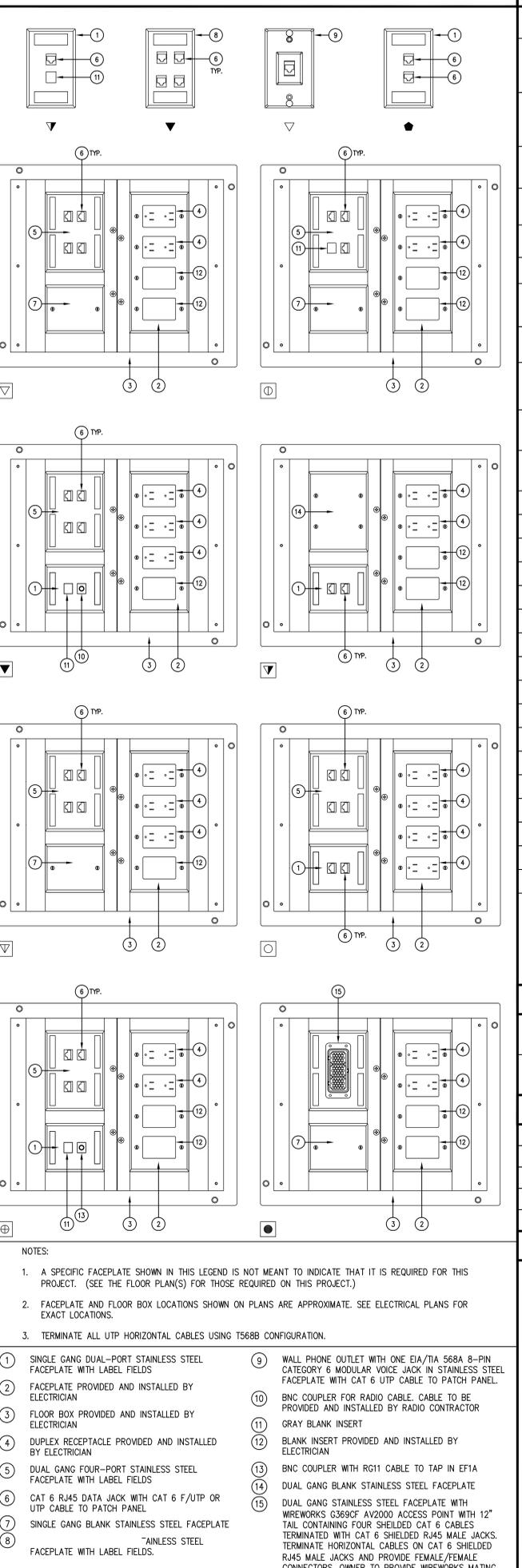
IN-ROW COOLING UNIT SCHEDULE (SEE NOTE 1)			
DESIGNATION	IRC-#		
QUANTITY OF UNITS	20		
FAN DATA			
TOTAL SUPPLY AIR VOLUME	CFM	2,680	
NUMBER OF FANS PER UNIT (NOTE 4)		8	
FAN MOTOR POWER (EACH)	WATTS	115	
FILTER TYPE & EFFICIENCY	MERV 8 - 30%		
COOLING COIL DATA			
TOTAL COOLING NET CAPACITY	MBTUH	73.0	
SENSIBLE COOLING NET CAPACITY	MBTUH	73.0	
AIR ENTERING COOLING COIL	T _{db} -T _{wb}	95.0-67.7	
WATER FLOW RATE	GPM	15.2	
PROCESS CHILLED WATER ENTERING TEMPERATURE	T	50.0	
PROCESS CHILLED WATER LEAVING TEMPERATURE	T	60.0	
MAXIMUM WATER PRESSURE DROP	FT. H ₂ O	22.2	
PERCENT ETHYLENE GLYCOL	%	0	
COIL FACE AREA & NUMBER OF ROWS	FT. ² -#	5.5 - 3	
CHILLED WATER CONNECTION PIPE SIZE	IN.	1	
CONTROL VALVE CONFIGURATION		3-WAY	
CONTROL VALVE SIZE	IN.	3/4	
CONTROL VALVE FLOW COEFFICIENT	Cv	27	
CONDENSATE DRAIN SIZE	IN.	1/4	
ELECTRICAL CHARACTERISTICS			
UNIT WEIGHT	V/ψ	208/1	
MANUFACTURER (BASIS OF DESIGN)		APC	
MODEL NUMBER (BASIS OF DESIGN)		ACRC100	
DETAIL REFERENCE	J/MS.1		
EQUIPMENT PREVENTATIVE MAINTENANCE NUMBER	NO.		
NOTES:			
1. IN-ROW COOLING UNITS (IRC) TO BE PROVIDED AND INSTALLED BY TELECOMM. CONTRACTOR. CHILLED WATER AND CONDENSATE CONNECTIONS FOR IRC UNITS TO BE PERFORMED BY MECHANICAL CONTRACTOR. SEE TELECOMM. AND MECHANICAL FLOOR PLANS FOR LOCATIONS. THIS EQUIPMENT SCHEDULE SHOWN FOR REFERENCE ON SHEETS M0.4 & T0.1.			
2. SCHEDULED INFORMATION INDICATES PERFORMANCE DATA FOR EACH IN-ROW COOLING UNIT.			
3. ALL INSTALLATIONS SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.			
4. UNITS SHALL BE CAPABLE OF PROVIDING 88% TOTAL SUPPLY AIRFLOW UPON SINGLE FAN FAILURE; FANS SHALL BE REPLACEABLE WHILE EQUIPMENT IS IN OPERATION.			

HORIZONTAL CABLE TERMINATION PLANS



HORIZONTAL CABLES IN THE LOGISTIC BUILDING TERMINATE IN ERTA.

FACEPLATE LEGEND



TELECOMMUNICATIONS SYMBOL LEGEND

CBB	EXTERIOR GRADE PLYWOOD COMMUNICATIONS BACKBOARD PROVIDED AND INSTALLED BY ELECTRICIAN
1	PIPE SLEEVE(S) THROUGH WALL (BELOW RAISED FLOOR UNLESS NOTED OTHERWISE) - OPEN AT BOTH ENDS, PROVIDED AND INSTALLED BY ELECTRICIAN. FIRE SEAL ALL SLEEVES THROUGH FIRE/SMOKE AND FULL-HEIGHT WALLS AFTER CABLES ARE INSTALLED. THE NUMBER INDICATES THE QUANTITY AT A GIVEN LOCATION. ALL SLEEVES ARE 4" UNLESS NOTED OTHERWISE.
AD 07	OWNER PROVIDED AND INSTALLED FLOOR MOUNT EQUIPMENT CABINET WITH VENTILATED FRONT DOOR, SOLID SIDE PANELS, TOP PANEL WITH FILAMENT BRUSHES, AND FULL HEIGHT VERTICAL WIRE MANAGEMENT EACH SIDE. PROVIDED WITH CABLE TROUGH AND ELECTRICAL POWER CORD TROUGH OVER ALL CABINETS. (CABINET SIZE VARIES. SEE CABINET LAYOUTS.)
10C1	OWNER PROVIDED AND INSTALLED 12" WIDE X 42" DEEP FLOOR MOUNT IN-ROW COOLING UNIT. PROVIDE CABLE TROUGH, ELECTRICAL POWER CORD TROUGH AND ROOF HEIGHT ADAPTER OVER ALL IN-ROW COOLING UNITS.
19" X 84" FLOOR MOUNT 2-POST EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS. (SEE RACK LAYOUTS FOR WIRE MANAGER SIZES.)	
19" X 84" X 30" FLOOR MOUNT 4-POST EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS. (SEE RACK LAYOUTS FOR WIRE MANAGER SIZES.)	
OVERHEAD WIRE MESH OPEN CABLE TRAY (TYPICAL 6" X 18" UNLESS NOTED OTHERWISE)	
LADDER RACK ABOVE TOP OF EQUIPMENT RACKS. PROVIDE RUNWAY CORNER BRACKET AT CORNERS AND CABLE RADIUS DROP INTO TOP OF RACKS. PROVIDE ALL HARDWARE NECESSARY FOR A COMPLETE SYSTEM. (SEE FLOOR PLANS FOR WIDTH.)	
WIRE MESH OPEN CABLE TRAY LOCATED BELOW THE RAISED FLOOR (6" X 24" UNLESS NOTED OTHERWISE)	
TE1E	TELECOMMUNICATIONS ENCLOSURE (CHATSWOT)
W	WIRELESS ACCESS POINT: PROVIDE ONE (1) CAT 6 UTP CABLE FROM PATCH PANEL TO LOCATION SHOWN. PROVIDE A 25' SERVICE LOOP WITH CAT 6 RJ45 CONNECTOR ABOVE THE CEILING.
MTGB/TGB	MAIN TELECOMMUNICATIONS GROUNDING BAR (MTGB) OR TELECOMMUNICATIONS GROUNDING BAR (TGB) PROVIDED AND INSTALLED BY ELECTRICIAN.
J	SUGGESTED J-HOOK ROUTE, PROVIDE J-HOOKS @ 60" O.C. MAX.
48M BBN	48 STRAND LASER OPTIMIZED MULTIMODE OM3 BACKBONE CABLE
12M BBN	12 STRAND LASER OPTIMIZED MULTIMODE OM3 BACKBONE CABLE
24M SAN	24 STRAND LASER OPTIMIZED MULTIMODE OM3 HORIZONTAL CABLE FOR SAN INTERCONNECTION
24M BBN	24 STRAND LASER OPTIMIZED MULTIMODE OM3 BACKBONE CABLE FOR RTMC INTERCONNECTION
12M NTK	12 STRAND LASER OPTIMIZED MULTIMODE OM3 HORIZONTAL CABLE FOR NETWORK INTERCONNECTION
3-24M BBN	3-24 STRAND LASER OPTIMIZED MULTIMODE OM3 FIBER OPTIC BACKBONE CABLES
48M BBN	48 STRAND SINGLE MODE OS2 FIBER OPTIC BACKBONE CABLE
24M BBN	24 STRAND SINGLE MODE OS2 FIBER OPTIC BACKBONE CABLE
12M BBN	12 STRAND SINGLE MODE OS2 FIBER OPTIC BACKBONE CABLE
6M BBN	6 STRAND SINGLE MODE OS2 FIBER OPTIC BACKBONE CABLE
12CAT6	12 CATEGORY 6 F/UTP HORIZONTAL CABLES
8CAT6	8 CATEGORY 6 F/UTP HORIZONTAL CABLES
6CAT6	6 CATEGORY 6 F/UTP HORIZONTAL CABLES
RG11	RG11 COAXIAL BACKBONE CABLE
CAT3	MULTI-PAIR CATEGORY 3 COPPER BACKBONE CABLE FOR EMERGENCY ANALOG TRANSMISSION
●	CABLE TERMINATION LOCATION
NOTES:	
1. A SYMBOL SHOWN IN THIS LEGEND IS NOT MEANT TO INDICATE THAT THE SPECIFIC EQUIPMENT IS REQUIRED FOR THIS PROJECT. (SEE THE FOLLOWING SHEETS FOR EQUIPMENT REQUIRED ON THIS PROJECT.)	
2. REQUIRED HORIZONTAL CABLING TO CONSOLES, WORK STATIONS, DISPLAYS AND TVs IS NOT SHOWN ON THE PLANS.	

SECURITY SYMBOL LEGEND

☉	POLE MOUNT DOME CAMERA PROVIDED AND INSTALLED BY SECURITY CONTRACTOR. COMMUNICATIONS CONTRACTOR TO PROVIDE, INSTALL AND TERMINATE FIBER OPTIC CABLES.
☒	WALL MOUNT CAMERA PROVIDED AND INSTALLED BY SECURITY CONTRACTOR. COMMUNICATIONS CONTRACTOR TO PROVIDE, INSTALL AND TERMINATE FIBER OPTIC CABLES.

ARCHITECTURAL SYMBOL LEGEND

---	2-HOUR FIRE RATED PARTITION
---	1-HOUR FIRE RATED PARTITION
---	SMOKETIGHT PARTITION
---	FULL-HEIGHT WALL FROM TOP OF STRUCTURAL FLOOR TO BOTTOM OF STRUCTURAL DECK ABOVE
---	DEMOUNTABLE PARTITION

ABBREVIATIONS

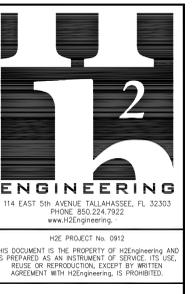
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BAYNET	BAYNET NEIL-CONCELMANN OR BAYNET NAVEL CONNECTOR
CAD	COMPUTER-AIDED DESIGN
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CBB	COMMUNICATIONS BACKBOARD
CMP	COMMUNICATIONS PLENUM CABLE (CABLE MARKING AS PER NFPA 70)
CMR	COMMUNICATIONS RISER CABLE (CABLE MARKING AS PER NFPA 70)
COAX	COAXIAL CABLE
EF	ENTRANCE FACILITY
ER	EQUIPMENT ROOM
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMI	ELECTROMAGNETIC INTERFERENCE
F/UTP	FOIL APPLIED OVER UNSHIELDED TWISTED PAIR (ALSO REFERRED TO AS SCREENED TWISTED PAIR)
GIS	GEOGRAPHIC INFORMATION SYSTEM
HC	HORIZONTAL CROSS-CONNECT
IC	INTERMEDIATE CROSS-CONNECTION
IDC	INSULATION DISPLACEMENT CONTACT
LAN	LOCAL AREA NETWORK
LC	LUCENT CONNECTOR
MC	MAIN CROSS-CONNECT
PDU	POWER DISTRIBUTION UNIT
RFI	RADIO FREQUENCY INTERFERENCE
SAN	STORAGE AREA NETWORK
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR	TELECOMMUNICATIONS ROOM
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR

GENERAL NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 EDITION WITH 2008 & 2009 SUPPLEMENTS, THE FLORIDA FIRE PREVENTION CODE 2007 EDITION, THE NATIONAL ELECTRICAL CODE 2008 EDITION, 12TH EDITION BICSI TELECOM DISTRIBUTION METHODS MANUAL AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
- FIELD VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
- BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
- THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
- CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
- ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
- ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDOUS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- COORDINATE AND SEQUENCE ALL CONSTRUCTION WORK AND CLEANING. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
- THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
- CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
- THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
- PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.
- NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
- ROOF ACCESS IS RESTRICTED. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
- SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE. ALL EXTERIOR STRUCTURES SHALL BE INSTALLED TO RESIST 200 MPH WIND LOAD.
- REMOVE AND RE-INSTALL CEILING TILE AS REQUIRED. REPLACE ANY TILE DAMAGED OR SOILED DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES AND ACOUSTICAL WALLS.
- BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY SLEEVES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
- REFER TO ARCHITECTURAL PLANS FOR LOCATION AND DETAIL OF SMOKE AND FIRE RATED WALLS AND PARTITIONS. ALL PENETRATIONS SHALL BE EFFECTIVELY SEALED USING APPROVED UL LISTED ASSEMBLIES.
- ALL CONDUITS AND SLEEVES SHOWN SHALL BE INSTALLED BY THE ELECTRICIAN. (UNO)
- ANY SLEEVES REQUIRED IN ADDITION TO THOSE SHOWN THROUGH THE FIRE/SMOKE RATED PARTITIONS SHALL BE INSTALLED AND SEALED BY THE COMMUNICATIONS CONTRACTOR.
- THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE SURROUNDING CONSTRUCTION.

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James R. McVicker, RCDD #121999

CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



Clemons, Rutherford & Associates Inc.

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Interior Designers
Construction Managers

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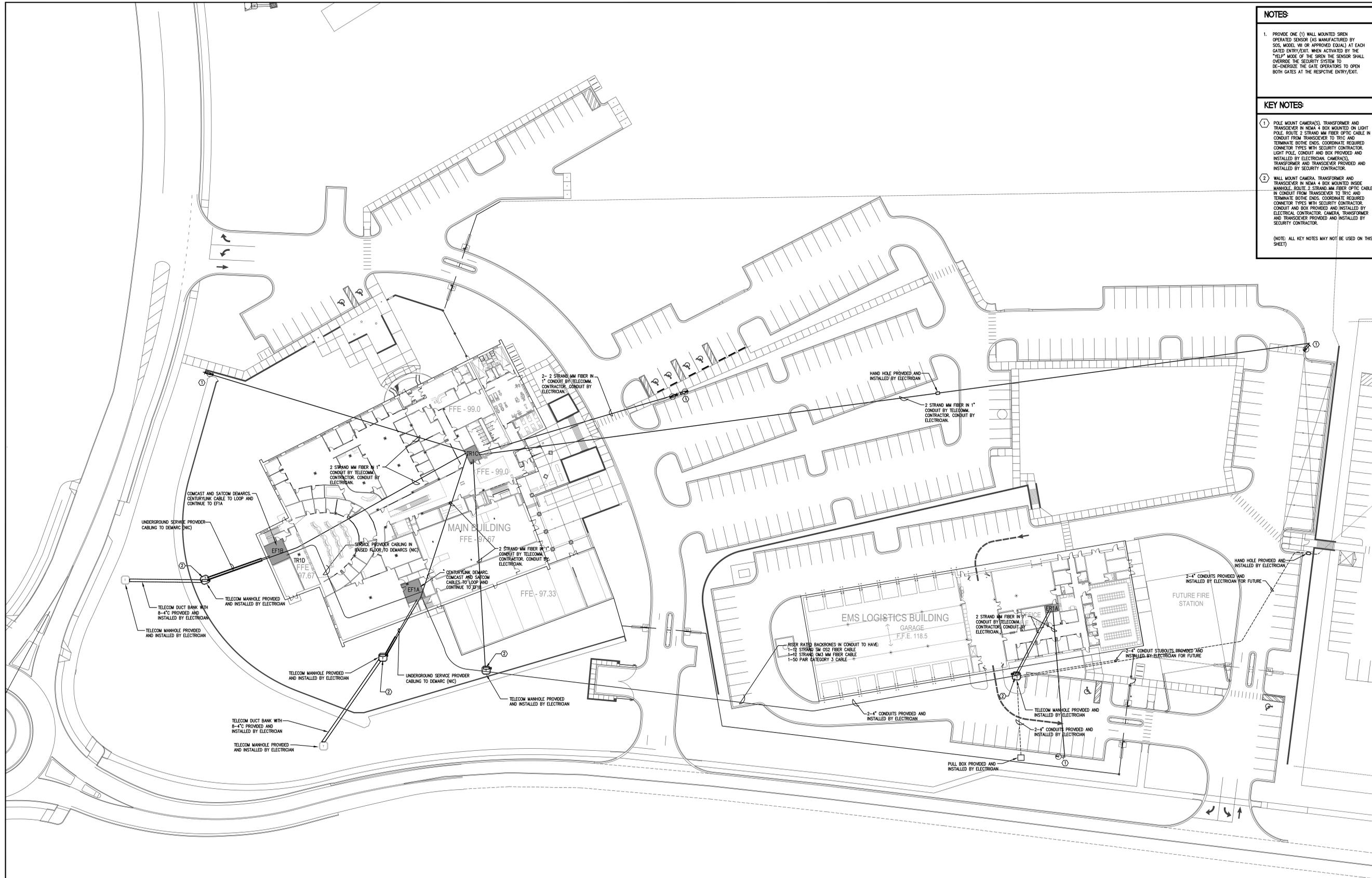
NOTES:

1. PROVIDE ONE (1) WALL MOUNTED SIREN OPERATED SENSOR (AS MANUFACTURED BY SOS, MODEL VII OR APPROVED EQUAL) AT EACH GATED ENTRY/EXIT. WHEN ACTIVATED BY THE "HELP" MODE OF THE SIREN, THE SENSOR SHALL OVERRIDE THE SECURITY SYSTEM TO DE-ENERGIZE THE GATE OPERATORS TO OPEN BOTH GATES AT THE RESPECTIVE ENTRY/EXIT.

KEY NOTES:

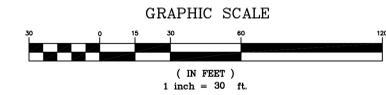
1. POLE MOUNT CAMERA(S), TRANSFORMER AND TRANSDUCER IN NEMA 4 BOX MOUNTED ON LIGHT POLE. ROUTE 2 STRAND MM FIBER OPTIC CABLE IN CONDUIT FROM TRANSCEIVER TO TRIC AND TERMINATE BOTH ENDS. COORDINATE REQUIRED CONNECTOR TYPES WITH SECURITY CONTRACTOR. LIGHT POLE, CONDUIT AND BOX PROVIDED AND INSTALLED BY ELECTRICIAN. CAMERA(S), TRANSFORMER AND TRANSDUCER PROVIDED AND INSTALLED BY SECURITY CONTRACTOR.
2. WALL MOUNT CAMERA, TRANSFORMER AND TRANSDUCER IN NEMA 4 BOX MOUNTED INSIDE MANHOLE. ROUTE 2 STRAND MM FIBER OPTIC CABLE IN CONDUIT FROM TRANSCEIVER TO TRIC AND TERMINATE BOTH ENDS. COORDINATE REQUIRED CONNECTOR TYPES WITH SECURITY CONTRACTOR. CONDUIT AND BOX PROVIDED AND INSTALLED BY ELECTRICIAN. CAMERA, TRANSFORMER AND TRANSDUCER PROVIDED AND INSTALLED BY SECURITY CONTRACTOR.

(NOTE: ALL KEY NOTES MAY NOT BE USED ON THIS SHEET)



SITE PLAN
SCALE: 1"=30'

(SEE LARGE SCALE TELECOMMUNICATIONS PLANS FOR ADDITIONAL BACKBONE CABLING)



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PERMIT 2	03/25/11	JRM	JRM
L.F.C.	07/17/12	JRM	JRM

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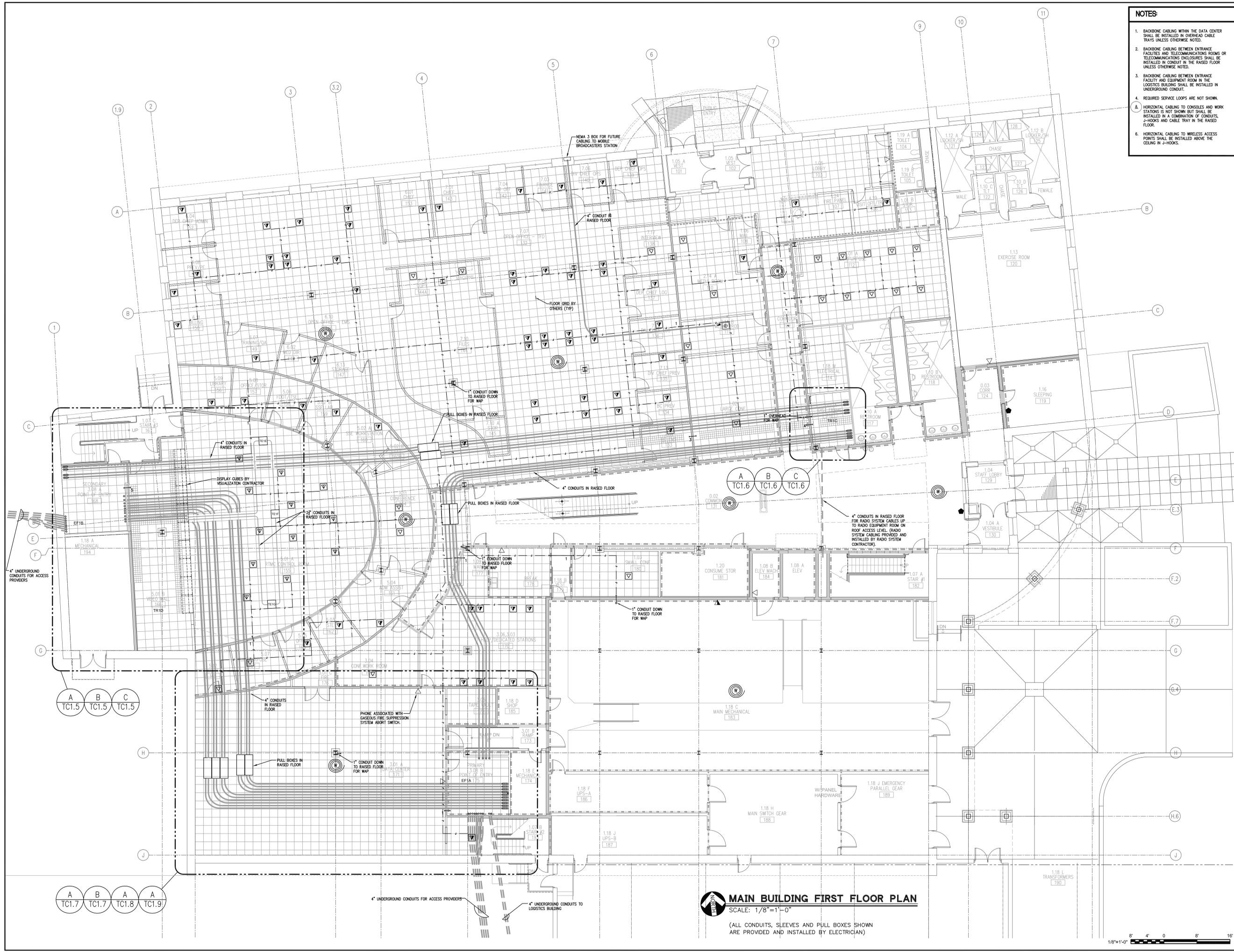
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PHASE: CONSTRUCTION DOCUMENTS

SHEET TITLE
SITE PLAN - TELECOMMUNICATIONS

TC1.0

- NOTES**
- BACKBONE CABLING WITHIN THE DATA CENTER SHALL BE INSTALLED IN OVERHEAD CABLE TRAYS UNLESS OTHERWISE NOTED.
 - BACKBONE CABLING BETWEEN ENTRANCE FACILITIES AND TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES SHALL BE INSTALLED IN CONDUIT IN THE RAISED FLOOR UNLESS OTHERWISE NOTED.
 - BACKBONE CABLING BETWEEN ENTRANCE FACILITY AND EQUIPMENT ROOM IN THE LOGISTICS BUILDING SHALL BE INSTALLED IN UNDERGROUND CONDUIT.
 - REQUIRED SERVICE LOOPS ARE NOT SHOWN.
 - HORIZONTAL CABLING TO CONSOLES AND WORK STATIONS IS NOT SHOWN BUT SHALL BE INSTALLED IN A COMBINATION OF CONDUITS, J-HOOKS AND CABLE TRAY IN THE RAISED FLOOR.
 - HORIZONTAL CABLING TO WIRELESS ACCESS POINTS SHALL BE INSTALLED ABOVE THE CEILING IN J-HOOKS.



MAIN BUILDING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN ARE PROVIDED AND INSTALLED BY ELECTRICIAN)



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L.F.C.	01/11/12	JRM	JRM

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SHEET TITLE
MAIN BUILDING FIRST FLOOR PLAN - TELECOMMUNICATIONS

TC1.1



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James R. McVicker, RCDD #121999

CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



Clemons, Rutherford & Associates Inc.

Architects
Planners
Interior Designers
Construction Managers

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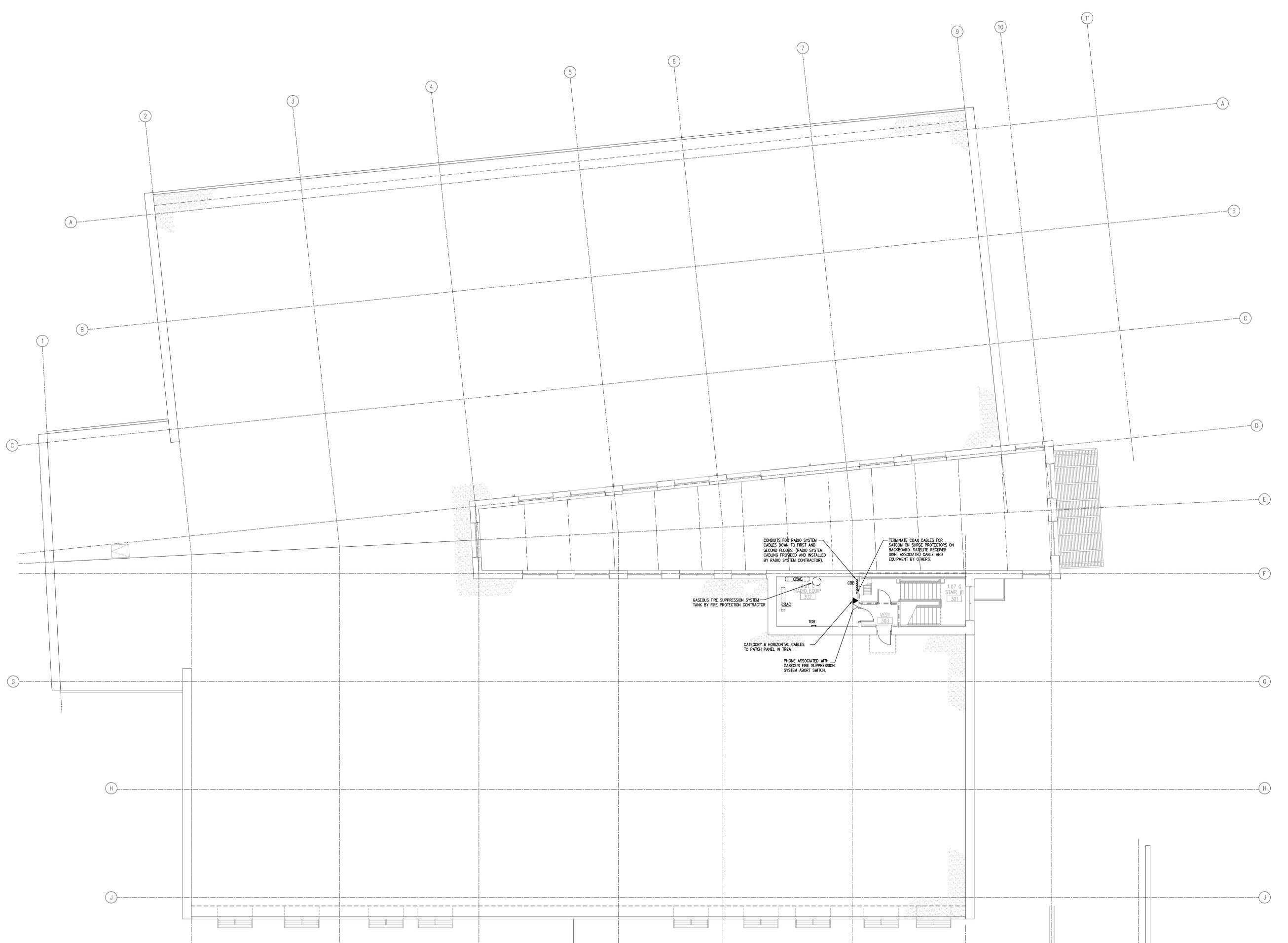
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SHEET TITLE

MAIN BUILDING ROOF ACCESS LEVEL - TELECOMMUNICATIONS

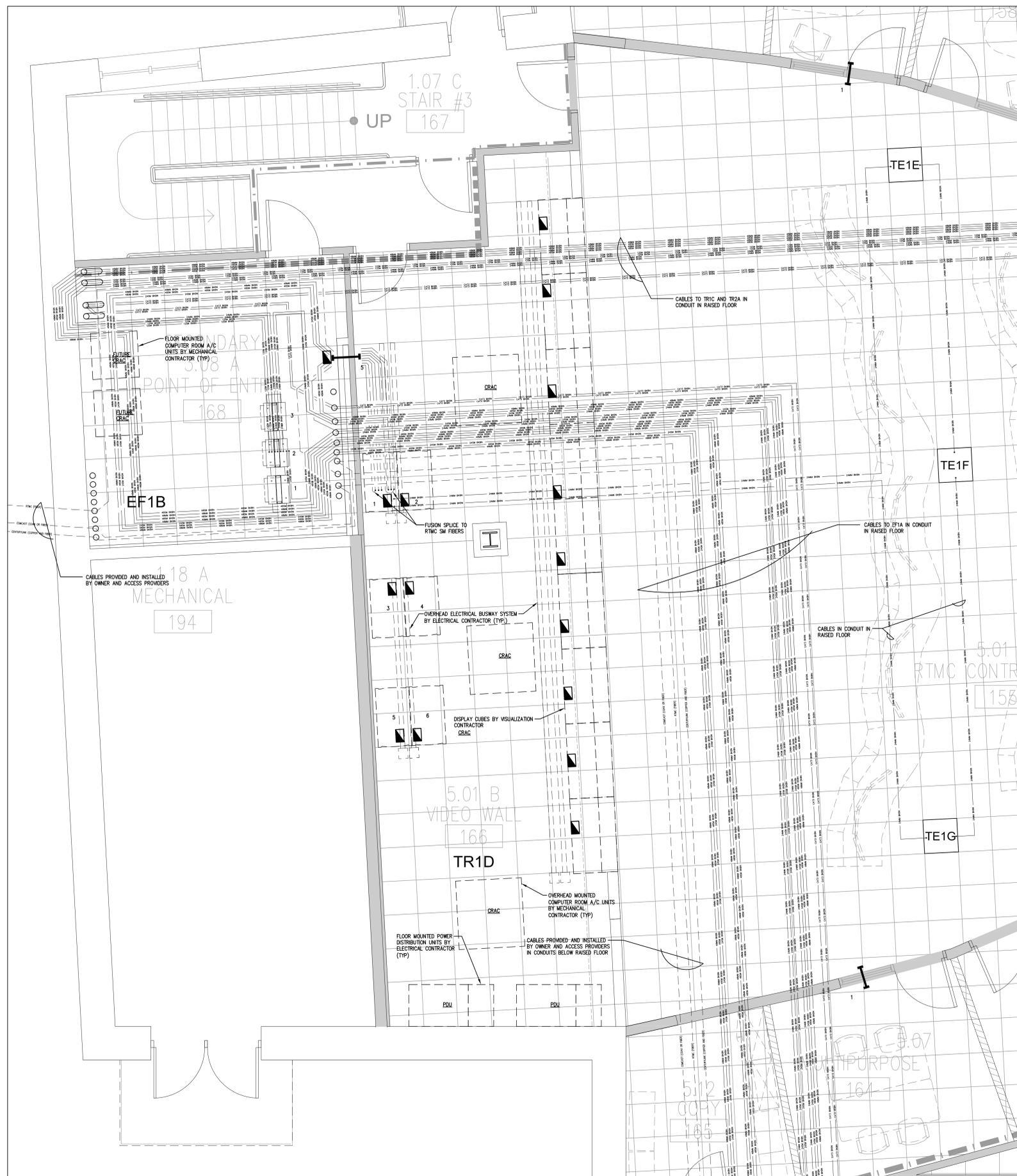
TC13



MAIN BUILDING ROOF ACCESS LEVEL

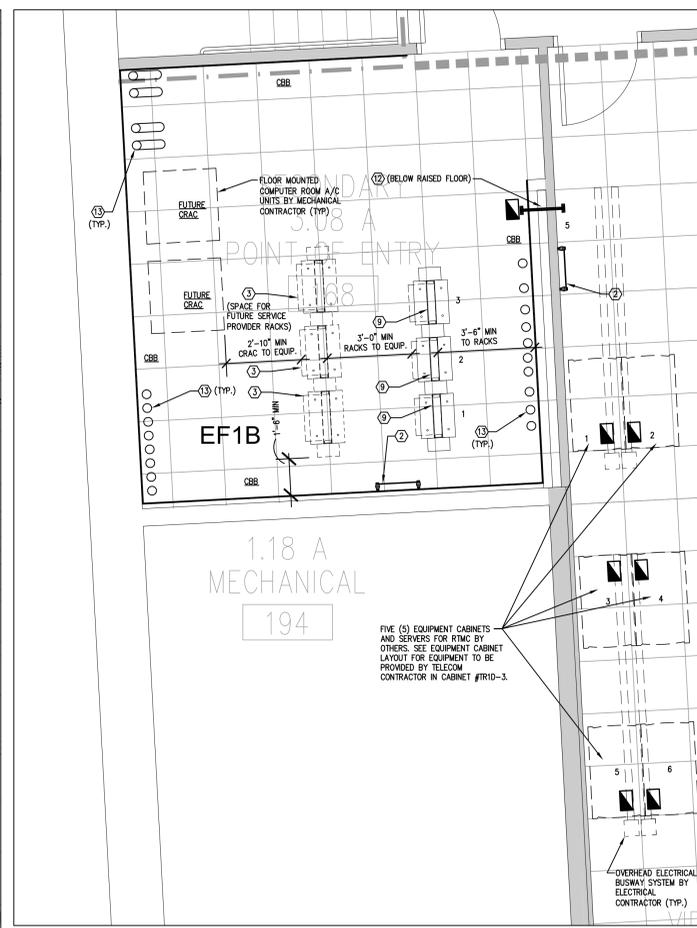
SCALE: 1/8"=1'-0"
(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN ARE PROVIDED AND INSTALLED BY ELECTRICIAN)



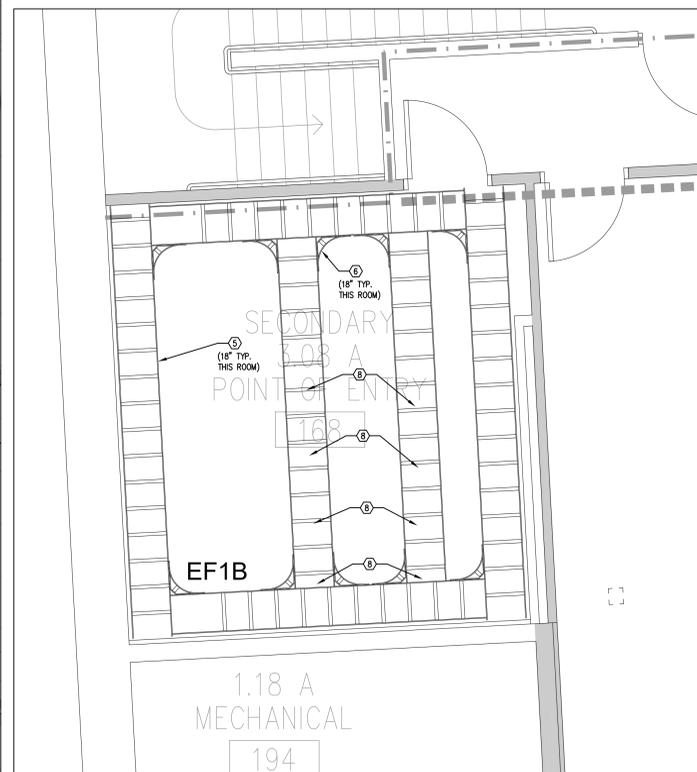


A ENTRANCE FACILITY EF1B, TELECOM ROOM TR1D, TELECOM ENCLOSURES TE1E, TE1F AND TE1G BACKBONE ROUTING PLAN
 TCI.5 SCALE: 3/8"=1'-0"

(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN THIS SHEET ARE PROVIDED AND INSTALLED BY ELECTRICIAN)



B ENTRANCE FACILITY EF1B EQUIP. RACK LAYOUT
 TCI.5 SCALE: 3/8"=1'-0"



C ENTRANCE FACILITY EF1B CABLE PATHWAY LAYOUT
 TCI.5 SCALE: 3/8"=1'-0"

- NOTES:**
- BACKBONE CABLES WITHIN THE DATA CENTER SHALL BE INSTALLED IN OVERHEAD CABLE TRAYS UNLESS OTHERWISE NOTED.
 - BACKBONE CABLES BETWEEN ENTRANCE FACILITIES AND TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES SHALL BE INSTALLED IN CONDUIT IN THE RAISED FLOOR UNLESS OTHERWISE NOTED.
 - BACKBONE CABLES BETWEEN ENTRANCE FACILITY AND EQUIPMENT ROOM IN THE LOGISTICS BUILDING SHALL BE INSTALLED IN UNDERGROUND CONDUIT.
 - REQUIRED SERVICE LOOPS ARE NOT SHOWN.
 - HORIZONTAL CABLES TO CONSOLES AND WORK STATIONS IS NOT SHOWN BUT SHALL BE INSTALLED IN A COMBINATION OF CONDUITS, J-HOOKS AND CABLE TRAY IN THE RAISED FLOOR.
 - HORIZONTAL CABLES TO WIRELESS ACCESS POINTS SHALL BE INSTALLED ABOVE THE CEILING IN J-HOOKS.
- KEY NOTES:**
- MAIN TELECOMMUNICATIONS GROUND BAR (MTGB) PROVIDED AND INSTALLED BY ELECTRICIAN
 - TELECOMMUNICATIONS GROUND BAR (TGB) PROVIDED AND INSTALLED BY ELECTRICIAN
 - TELECOM SERVICE PROVIDER DEMARC (EQUIPMENT, RACKS AND WIRE MANAGERS PROVIDED AND INSTALLED BY SERVICE PROVIDER)
 - TELECOMMUNICATIONS BACKBOARD PROVIDED AND INSTALLED BY ELECTRICIAN
 - HORIZONTAL LADDER RACK. SECURE LADDER RACK TO WALL WITH MANUFACTURER'S TRIANGULAR SUPPORT BRACKETS AT 60" O.C. MAXIMUM. WHERE PLYWOOD DOES NOT EXIST INSTALL SUPPORT BRACKET FASTENERS INTO METAL STUD FRAMING. SUPPORT LADDER RACK WITH THREADED ROD WHERE SPANS EXCEED 60". BRING ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR WITH #6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MANUFACTURER'S CORNER CLAMPS AT PERPENDICULAR INTERSECTIONS OF LADDER RACK.
 - 15" CABLE RUNWAY CORNER BRACKET.
 - 24" CABLE RUNWAY CORNER BRACKET.
 - PROVIDE TWO CABLE RUNWAY RADIUS DROPS ABOVE EACH VERTICAL CABLE MANAGER TO MAINTAIN CABLE BEND RADIUS. COORDINATE LAYOUT OF OVERHEAD LADDER RACK CROSS MEMBERS SO THAT RADIUS DROPS ARE LOCATED DIRECTLY ABOVE VERTICAL CABLE MANAGERS. WHERE CROSS MEMBERS CONFLICT WITH THE VERTICAL CABLE MANAGERS, CUT AND REMOVE CROSS MEMBERS AND REPLACE WITH REMOVABLE CROSS MEMBERS. WHERE RADIUS DROPS ARE CONNECTED TO REMOVABLE CROSS MEMBERS INSTALL CUSTOM RADIUS DROPS.
 - 2-POST 19" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
 - 4-POST 19" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
 - OVERHEAD WIRE MESH OPEN RACEWAY SYSTEM
 - 4" SLEEVES PROVIDED AND INSTALLED BY ELECTRICIAN. FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
 - 4" CONDUITS PROVIDED AND INSTALLED BY ELECTRICIAN. FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
 - 6" SLEEVES PROVIDED AND INSTALLED BY ELECTRICIAN. FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
 - 6" CONDUITS PROVIDED AND INSTALLED BY ELECTRICIAN. FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
 - PROVIDE CABLE RUNWAY RADIUS DROP TO MAINTAIN CABLE BEND RADIUS WHEREVER VERTICAL CABLES BELOW LADDER RACKS TRANSITION TO BEING SUPPORTED ON HORIZONTAL LADDER RACKS.
 - 1" CONDUITS FOR SITE SECURITY DEVICES PROVIDED AND INSTALLED BY ELECTRICIAN.
- (NOTE: ALL KEY NOTES MAY NOT BE USED ON THIS SHEET)

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 James R. McVicker, RCDD #121999

CITY OF TALLAHASSEE AND LEON COUNTY
PUBLIC SAFETY COMPLEX
 TELECOMMUNICATIONS PROJECT NO: 96016.02
 TALLAHASSEE, FL.

CRA Architects

Clemons, Rutherford & Associates Inc.
 Architects
 Interior Designers
 Construction Managers
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 Tallahassee, Florida 32308
 (850) 385-6153
 Fax (850) 386-8420
 e-mail
 cra@clemons-rutherford.com

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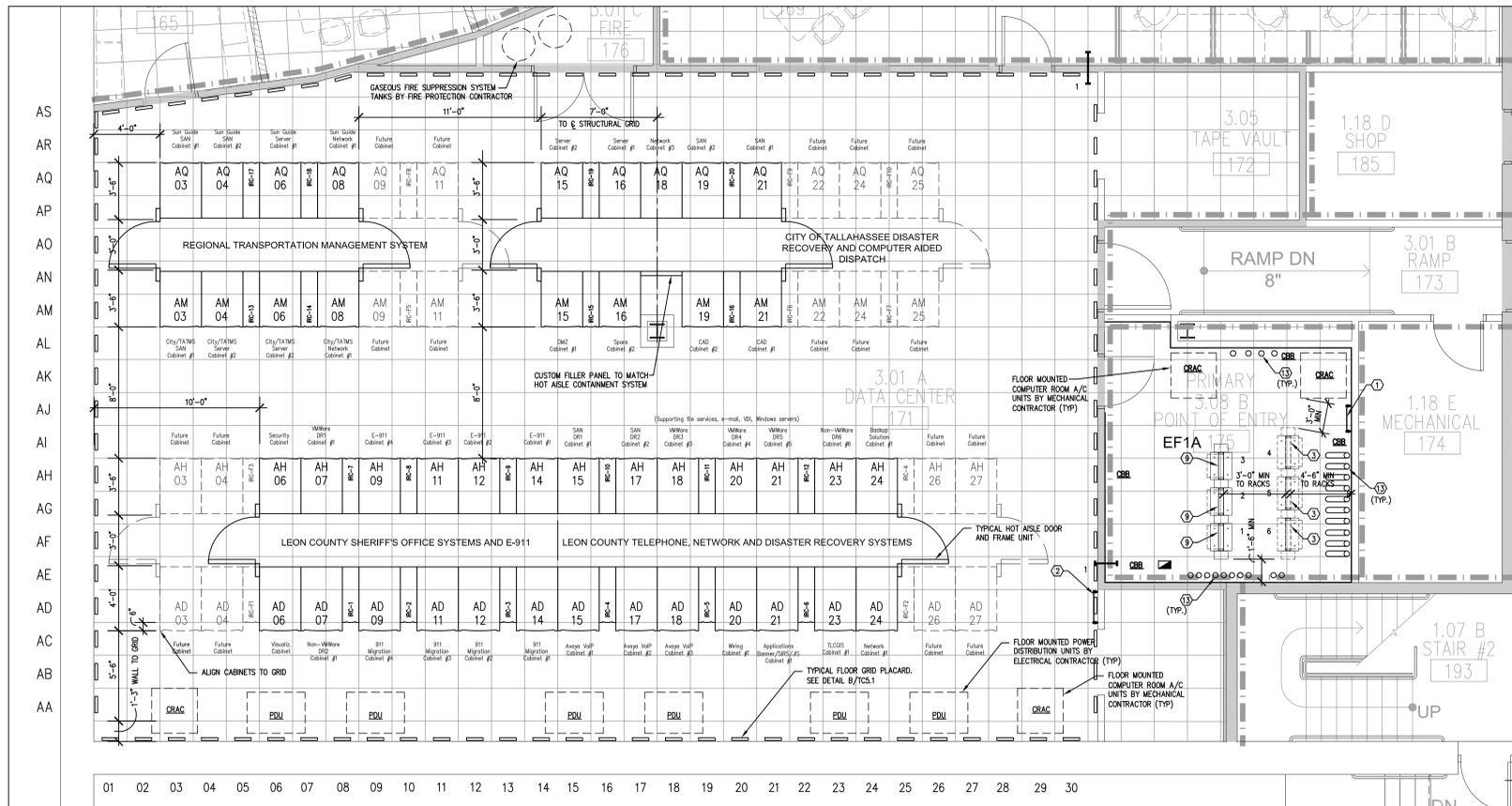
REVISIONS

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SHEET TITLE
 ENLARGED TELECOM ROOM PLANS - TELECOMMUNICATIONS

TC1.5

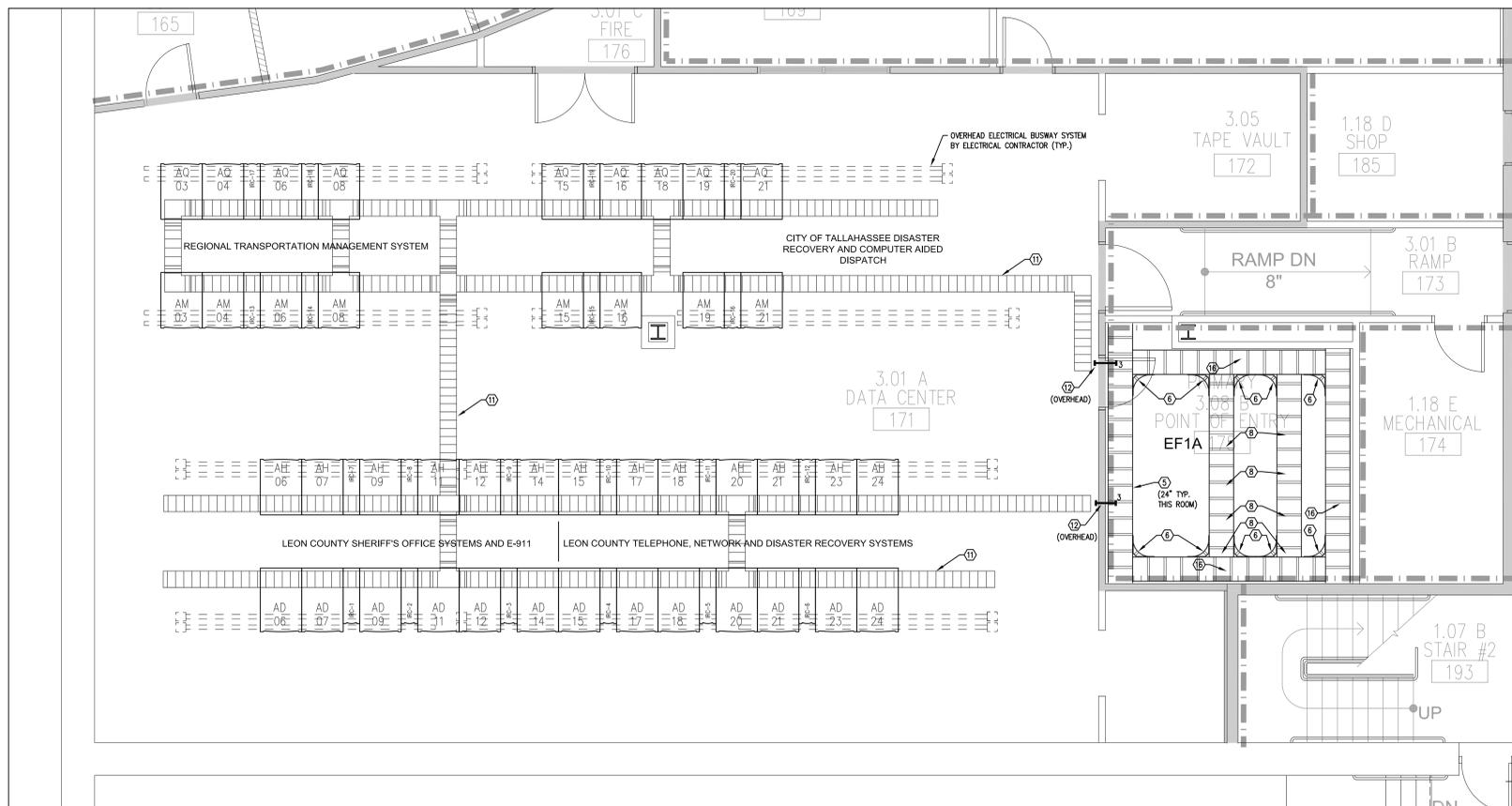


A DATA CENTER EQUIPMENT CABINET AND RACK LAYOUT



SCALE: 1/4"=1'-0"

NOTE: EQUIPMENT CABINETS, IN-ROW COOLING UNITS, AND HOT AISLE CONTAINMENT SYSTEMS IN THIS VIEW ARE PROVIDED AND INSTALLED BY OWNER, SHOWN FOR REFERENCE ONLY.



B DATA CENTER CABLE PATHWAY LAYOUT



SCALE: 1/4"=1'-0"

NOTE: EQUIPMENT CABINETS AND IN-ROW COOLING UNITS IN THIS VIEW ARE PROVIDED AND INSTALLED BY OWNER, SHOWN FOR REFERENCE ONLY.

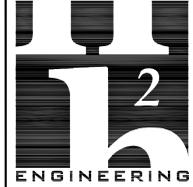
NOTES:

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KEY NOTES:

- MAIN TELECOMMUNICATIONS GROUND BAR (MTGB) PROVIDED AND INSTALLED BY ELECTRICIAN
- TELECOMMUNICATIONS GROUND BAR (TGB) PROVIDED AND INSTALLED BY ELECTRICIAN
- TELO SERVICE PROVIDER DEMARC, EQUIPMENT, RACKS AND WIRE MANAGERS PROVIDED AND INSTALLED BY SERVICE PROVIDER
- TELECOMMUNICATIONS BACKBOARD PROVIDED AND INSTALLED BY ELECTRICIAN
- HORIZONTAL LADDER RACK, SECURE LADDER RACK TO WALL WITH MANUFACTURER'S TRIANGULAR SUPPORT BRACKETS AT 60" O.C. MAXIMUM, WHERE SPANS EXCEED 40', BEING ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR WITH #6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MANUFACTURER'S CORNER CLAMPS AT PERPENDICULAR INTERSECTIONS OF LADDER RACK.
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- 2-POST 18" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
- 4-POST 18" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
- OVERHEAD WIRE MESH OPEN RACEWAY SYSTEM
- 4" SLEEVES PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 4" CONDUITS PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 6" SLEEVES PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
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- 1" CONDUITS FOR SITE SECURITY DEVICES PROVIDED AND INSTALLED BY ELECTRICIAN.

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CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



Clemons, Rutherford & Associates Inc.

Architects
Interior Designers
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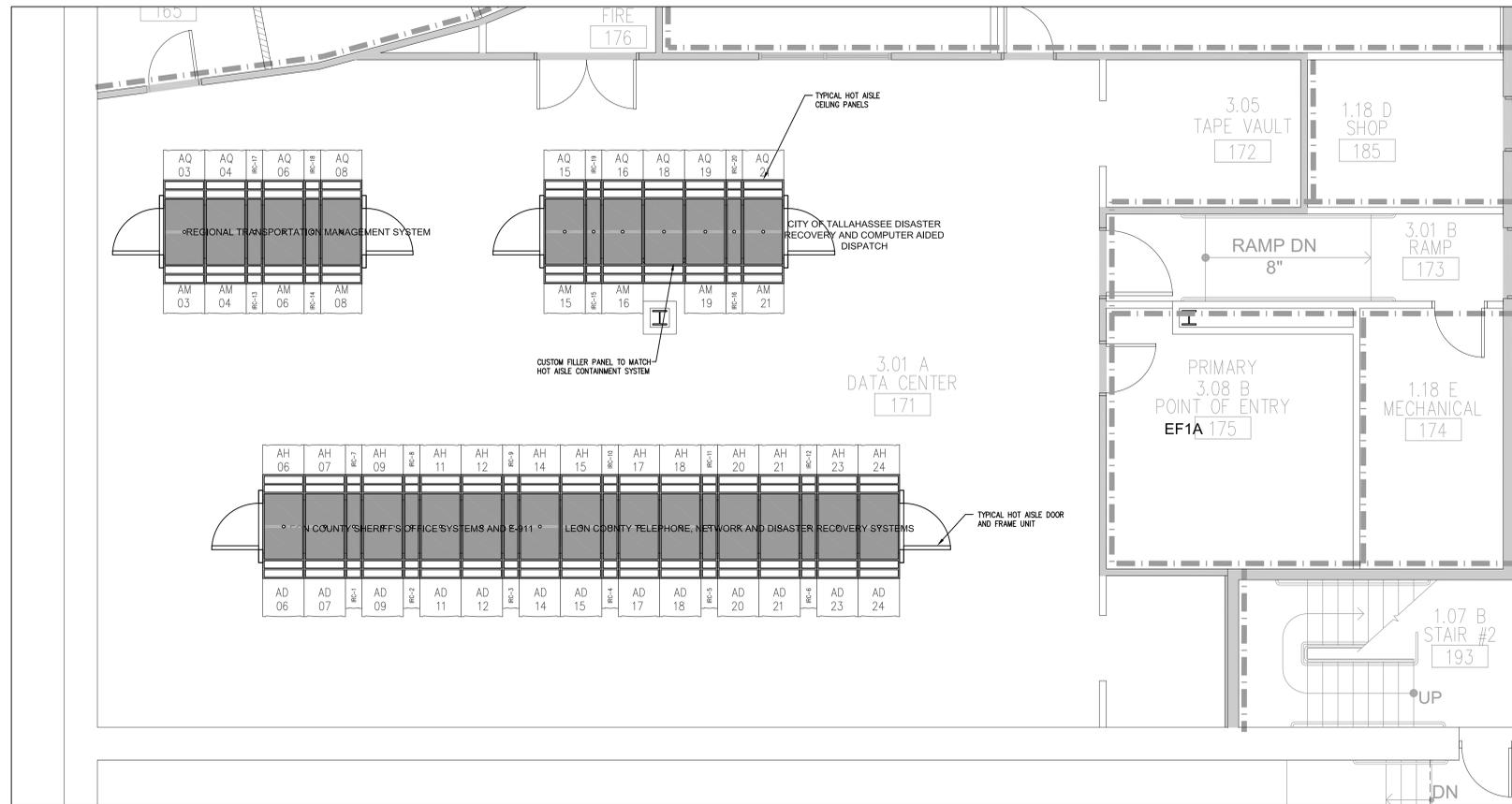
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ENLARGED DATA CENTER PLANS - TELECOMMUNICATIONS

TC1.7

(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN ARE PROVIDED AND INSTALLED BY ELECTRICIAN)



A DATA CENTER HOT AISLE CONTAINMENT SYSTEM

SCALE: 1/4"=1'-0"

NOTE: EQUIPMENT CABINETS, IN-ROW COOLING UNITS, AND HOT AISLE CONTAINMENT SYSTEMS IN THIS VIEW ARE PROVIDED AND INSTALLED BY OWNER, SHOWN FOR REFERENCE ONLY.

NOTES:

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5. HORIZONTAL CABLING TO CONSOLES AND WORK STATIONS IS NOT SHOWN BUT SHALL BE INSTALLED IN A COMBINATION OF CONDUITS, J-HOOKS AND CABLE TRAY IN THE RAISED FLOOR.
6. HORIZONTAL CABLING TO WIRELESS ACCESS POINTS SHALL BE INSTALLED ABOVE THE CEILING IN J-HOOKS.

KEY NOTES:

1. MAIN TELECOMMUNICATIONS GROUND BAR (MTGB) PROVIDED AND INSTALLED BY ELECTRICIAN
2. TELECOMMUNICATIONS GROUND BAR (TGB) PROVIDED AND INSTALLED BY ELECTRICIAN
3. TELCO SERVICE PROVIDER DEMARC (EQUIPMENT, RACKS AND WIRE MANAGERS PROVIDED AND INSTALLED BY SERVICE PROVIDER)
4. TELECOMMUNICATIONS BACKBOARD PROVIDED AND INSTALLED BY ELECTRICIAN
5. HORIZONTAL LADDER RACK. SECURE LADDER RACK TO WALL WITH MANUFACTURER'S TRIANGULAR SUPPORT BRACKETS AT 60" O.C. MAXIMUM. WHERE PLYWOOD DOES NOT EXIST INSTALL SUPPORT BRACKET FASTENERS INTO METAL STUD FRAMING. SUPPORT LADDER RACK WITH THREADED ROD WHERE SPANS EXCEED 60". BOND ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR WITH #6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MANUFACTURER'S CORNER CLAMPS AT PERPENDICULAR INTERSECTIONS OF LADDER RACK.
6. 15" CABLE RUNWAY CORNER BRACKET.
7. 24" CABLE RUNWAY CORNER BRACKET.
8. PROVIDE TWO CABLE RUNWAY RADIUS DROPS ABOVE EACH VERTICAL CABLE MANAGER TO MAINTAIN CABLE BEND RADIUS. COORDINATE LAYOUT OF OVERHEAD LADDER RACK CROSS MEMBERS SO THAT RADIUS DROPS ARE LOCATED DIRECTLY ABOVE VERTICAL CABLE MANAGERS. WHERE CROSS MEMBERS CONFLICT WITH THE VERTICAL CABLE MANAGERS, CUT AND REMOVE CROSS MEMBERS AND REPLACE WITH REMOVABLE CROSS MEMBERS. WHERE RADIUS DROPS ARE CONNECTED TO REMOVABLE CROSS MEMBERS INSTALL CUSTOM RADIUS DROPS.
9. 2-POST 18" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
10. 4-POST 18" FLOOR MOUNT EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
11. OVERHEAD WIRE MESH OPEN RACEWAY SYSTEM
12. 4" SLEEVES(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
13. 4" CONDUIT(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
14. 6" SLEEVES(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
15. 6" CONDUIT(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
16. PROVIDE CABLE RUNWAY RADIUS DROP TO MAINTAIN CABLE BEND RADIUS WHEREVER VERTICAL CABLES BELOW LADDER RACKS TRANSITION TO BEING SUPPORTED ON HORIZONTAL LADDER RACKS.
17. 1" CONDUIT(S) FOR SITE SECURITY DEVICES PROVIDED AND INSTALLED BY ELECTRICIAN.

(NOTE: ALL KEY NOTES MAY NOT BE USED ON THIS SHEET)



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James R. McVicker, RCDD #121999

CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



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PERMIT SET	03/25/11	JRM	JRM
PERMIT 2	01/30/11	JRM	JRM
L.F.C.	01/11/12	JRM	JRM

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#	DATE	COMMENTS

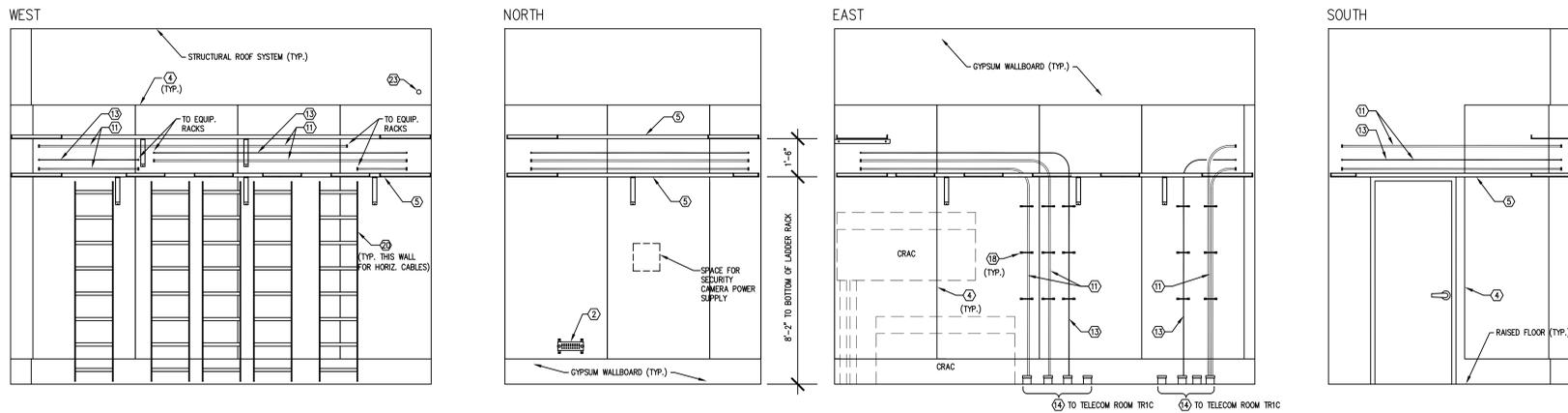
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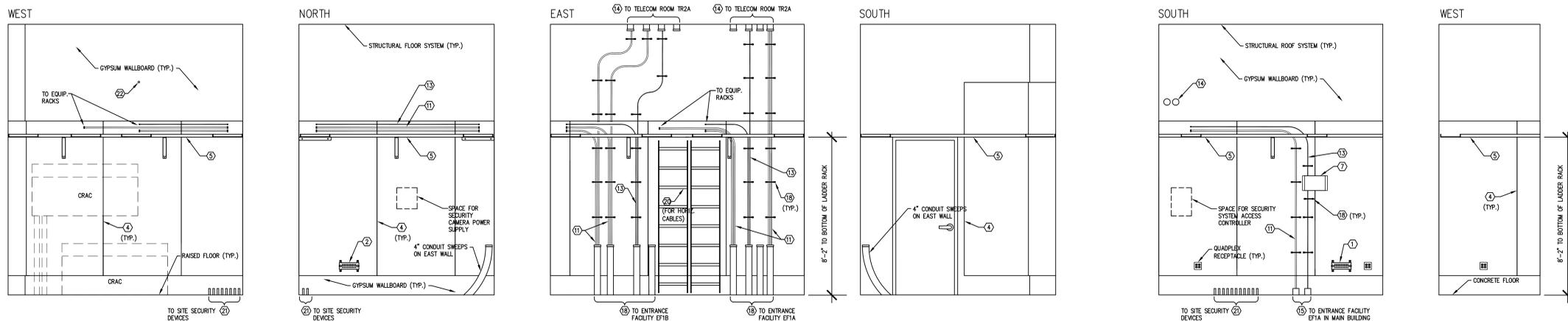
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ENLARGED DATA CENTER PLANS - TELECOMMUNICATIONS

TC1.8

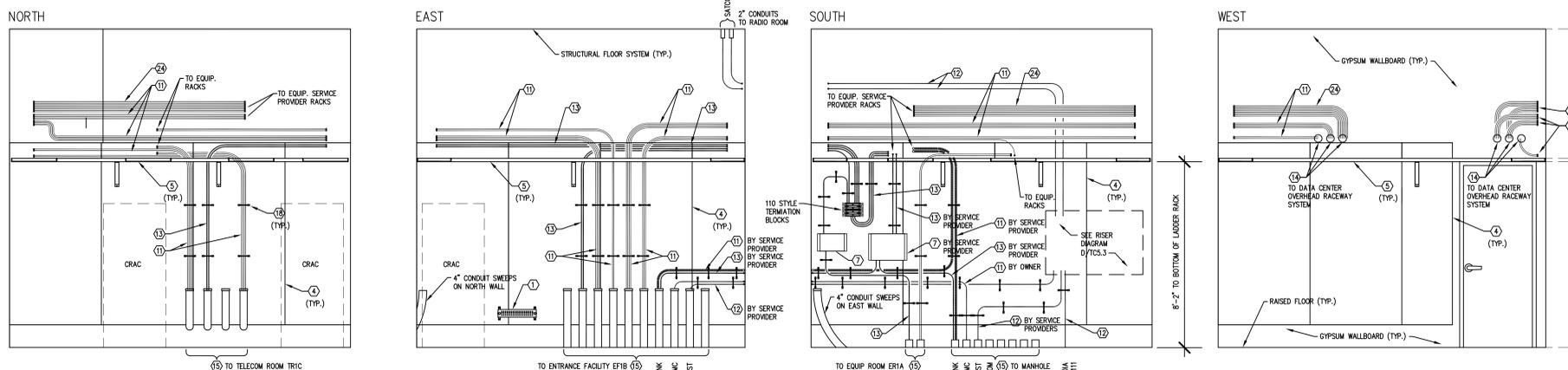
(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN ARE PROVIDED AND INSTALLED BY ELECTRICIAN)



TELECOMMUNICATIONS ROOM TR2A

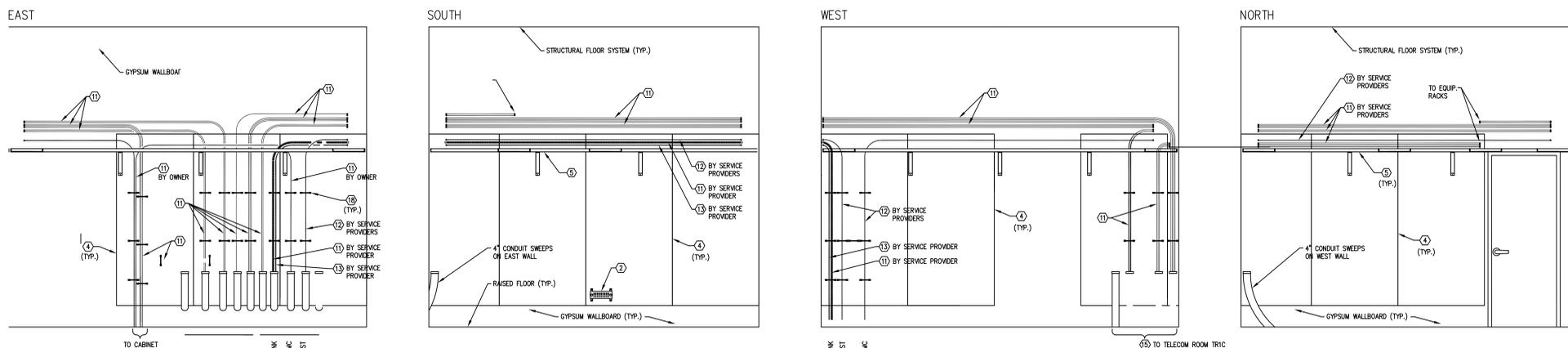


TELECOMMUNICATIONS ROOM TR1C



EQUIPMENT ROOM ERIA

ENTRANCE FACILITY EF1A



ENTRANCE FACILITY EF1B

NOTES:

1. BACKBONE CABLING WITHIN THE DATA CENTER SHALL BE INSTALLED IN OVERHEAD CABLE TRAYS UNLESS OTHERWISE NOTED.
2. BACKBONE CABLING BETWEEN ENTRANCE FACILITIES AND TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES SHALL BE INSTALLED IN CONDUIT IN THE RAISED FLOOR UNLESS OTHERWISE NOTED.
3. BACKBONE CABLING BETWEEN ENTRANCE FACILITY AND EQUIPMENT ROOM IN THE LOGISTICS BUILDING SHALL BE INSTALLED IN UNDERGROUND CONDUIT.
4. REQUIRED SERVICE LOOPS ARE NOT SHOWN.
5. BACKBONE ROUTING AND EQUIPMENT PLACEMENT SHOWN IS SCHEMATIC, INTENDED TO COORDINATE GENERAL ROUTING THROUGH THE VARIOUS PATHWAY DEVICES. MINOR ADJUSTMENTS MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
6. HORIZONTAL CABLING TO CONSOLES AND WORK STATIONS IS NOT SHOWN BUT SHALL BE INSTALLED IN A COMBINATION OF CONDUITS, J-HOOKS AND CABLE TRAY IN THE RAISED FLOOR.
7. HORIZONTAL CABLING TO WIRELESS ACCESS POINTS IS NOT SHOWN BUT SHALL BE INSTALLED OVERHEAD OR ABOVE CEILING IN J-HOOKS.

KEY NOTES:

- 1 MAIN TELECOMMUNICATIONS GROUND BAR (MTGB) PROVIDED AND INSTALLED BY ELECTRICIAN
- 2 TELECOMMUNICATIONS GROUND BAR (TGB) PROVIDED AND INSTALLED BY ELECTRICIAN
- 3 TELCO SERVICE PROVIDER DEMARC (EQUIPMENT, RACKS AND WIRE MANAGERS PROVIDED AND INSTALLED BY SERVICE PROVIDER)
- 4 TELECOMMUNICATIONS BACKBOARD PROVIDED AND INSTALLED BY ELECTRICIAN
- 5 HORIZONTAL LADDER RACK, SECURE LADDER RACK TO WALL WITH MANUFACTURER'S TRIANGULAR SUPPORT BRACKETS AT 60" O.C. MAXIMUM, WHERE PLYWOOD DOES NOT EXIST INSTALL SUPPORT BRACKET FASTENERS INTO METAL STUD FRAMING. SUPPORT LADDER RACK WITH THREADED ROD WHERE SPANS EXCEED 60". BOND ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR WITH #6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MANUFACTURER'S CORNER CLAMPS AT PERPENDICULAR INTERSECTIONS OF LADDER RACK.
- 7 BUILDING ENTRANCE TERMINAL
- 8 SURGE PROTECTOR
- 9 AMPLIFIER IF NEEDED
- 10 MULTI-WAY TAP
- 11 FIBER OPTIC BACKBONE CABLES
- 12 R011 COAX BACKBONE CABLE
- 13 MULTI-PAIR CATEGORY 3 BACKBONE CABLE
- 14 4" SLEEVE(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 15 4" CONDUIT(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 16 6" SLEEVE(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 17 6" CONDUIT(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 18 0-RINGS AT 24" O.C. AND WITHIN 6" OF CABLE TERMINATION
- 19 12" VERTICAL LADDER RACK, SECURE LADDER RACK TO WALL WITH MANUFACTURER'S RUNWAY ELEVATION KITS.
- 20 18" VERTICAL LADDER RACK, SECURE LADDER RACK TO WALL WITH MANUFACTURER'S RUNWAY ELEVATION KITS.
- 21 1" CONDUIT(S) FOR SITE SECURITY DEVICES PROVIDED AND INSTALLED BY ELECTRICIAN.
- 22 1" SLEEVE(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 23 2" SLEEVE(S) PROVIDED AND INSTALLED BY ELECTRICIAN, FIRE SEALED BY TELECOMMUNICATIONS CONTRACTOR.
- 24 CATEGORY 6 F/UTP CABLES CABLES

(NOTE: ALL KEY NOTES MAY NOT BE USED ON THIS SHEET)



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CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



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SHEET TITLE
 BACKBOARD ELEVATIONS

TC2.1

BACKBOARD ELEVATIONS
 SCALE: 3/8"=1'-0"

(ALL CONDUITS, SLEEVES AND PULL BOXES SHOWN ARE PROVIDED AND INSTALLED BY ELECTRICIAN)

LABELING SCHEME PER ANSI/TIA/EIA-606-A, CLASS 3 ADMINISTRATION STANDARDS

A CLASS 3 ADMINISTRATION COMPLIANT SYSTEM SHALL BE PROVIDED TO ESTABLISH A METHOD TO FIND THE RECORD ASSOCIATED WITH ANY SPECIFIC IDENTIFIER. THE ADMINISTRATION SYSTEM SHALL BE MANAGED USING A MICROSOFT WINDOWS BASED CABLE MANAGEMENT SOFTWARE PROGRAM SPECIFICALLY DESIGNED FOR THAT PURPOSE. INFORMATION SHALL BE RECORDED USING SOFTWARE LICENSED TO THE OWNER, PROVIDED AND INSTALLED BY THE TELECOMMUNICATIONS CONTRACTOR ON THE OWNER'S COMPUTER.

A UNIQUE IDENTIFIER SHALL BE ASSOCIATED WITH EACH ELEMENT OF THE INFRASTRUCTURE TO BE IDENTIFIED AND SHALL SERVE AS THE KEY TO FINDING THE RECORDED INFORMATION WITHIN THE ADMINISTRATION SYSTEM.

TEXT ON LABELS SHOULD BE A FONT WITHOUT SERIFS, UPPER CASE, AND LARGE ENOUGH TO BE EASILY READ WHILE STANDING NEAR THE CABINET OR RACK. TEXT ON LABELS SHALL BE MACHINE PRINTED OR GENERATED BY A MECHANICAL DEVICE, AND THE LABEL COLOR SHALL CONTRAST WITH THE SURFACE UPON WHICH THEY ARE AFFIXED (E.G., WHITE ON A DARK SURFACE, BLACK ON A WHITE SURFACE). LABELS USED TO IDENTIFY TSS SHALL BE COORDINATED WITH THE GENERAL BUILDING SIGNAGE SYSTEM SO THAT THE IDENTIFIER IS EITHER INCORPORATED INTO THE RESPECTIVE ROOM SIGN OR IS A SEPARATE SIGN THAT MATCHES THE ROOM SIGN IN SIZE, COLOR AND MATERIAL.

THE SIZE, COLOR, AND CONTRAST OF ALL LABELS SHOULD BE SELECTED TO ENSURE THAT THE IDENTIFIERS ARE EASILY READ. LABELS SHOULD BE VISIBLE DURING THE INSTALLATION AND NORMAL MAINTENANCE OF THE INFRASTRUCTURE. LABELS SHOULD BE RESISTANT TO THE ENVIRONMENTAL CONDITIONS AT THE POINT OF INSTALLATION (SUCH AS MOISTURE, HEAT OR ULTRAVIOLET LIGHT), AND SHOULD HAVE A DESIGN LIFE EQUAL TO OR GREATER THAN THAT OF THE LABELED COMPONENT.

EACH CABLE SHALL BE LABELED ON BOTH ENDS WITH AN IDENTIFIER THAT LOCATES ITS TERMINATION POINT IN THE APPROPRIATE TELECOMMUNICATIONS SPACE. EACH END OF THE CABLE SHALL BE LABELED ON THE OUTSIDE JACKET OF THE CABLE WITHIN 12 INCHES OF THE TERMINATION POINTS.

LABELS SHALL BE DURABLY AFFIXED TO BOTH ENDS OF EACH CABLE CONSPICUOUSLY DISPLAYED JUST PRIOR TO EACH CABLE BEING ROUTED INTO THE TERMINATION DEVICE. LABEL COLORS SHALL REFLECT CABLE ROUTE DIVERSITY WHEREVER APPLICABLE.

THE FOLLOWING IS A LIST OF THE IDENTIFIERS AND RECORDS REQUIRED FOR THIS PROJECT.

- TELECOMMUNICATIONS SPACES
- HORIZONTAL LINK
- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- TELECOMMUNICATIONS GROUNDING BUSBAR
- INTRABUILDING BACKBONE CABLE
- INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER
- FIBERSTOP LOCATIONS
- INTRABUILDING BACKBONE CABLE
- INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER
- BUILDING

TELECOMMUNICATIONS SPACE (TS)

TELECOMMUNICATIONS SPACES ARE AREAS USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE, E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ENCLOSURES, WORK AREAS, AND MAINTENANCE HOLES/HANDHOLES.

THE TS IDENTIFIER, UNIQUE WITHIN THE BUILDING, SHALL BE ASSIGNED TO THE TELECOMMUNICATIONS SPACE, AND IT SHALL HAVE THE FORMAT **ts**, WHERE:

- f** = NUMERIC CHARACTER(S) IDENTIFYING THE FLOOR OF THE BUILDING OCCUPIED BY THE TS
- s** = ALPHA CHARACTER(S) UNIQUELY IDENTIFYING THE TS ON FLOOR F, OR THE BUILDING AREA IN WHICH THE SPACE IS LOCATED

EXAMPLE TELECOMMUNICATIONS SPACES IDENTIFIER FORMAT: TR1C

THE TS RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

- TS IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G., 2A)
- TYPE OF TS (E.G., TR, TC, ETC.)
- BUILDING ROOM NUMBER
- KEY OR ACCESS CARD IDENTIFICATION
- CONTACT PERSON
- HOURS OF ACCESS

HORIZONTAL LINK

THE HORIZONTAL LINK IS THE CABLING BETWEEN AND INCLUDING THE TELECOMMUNICATIONS OUTLET/CONNECTOR AND THE HORIZONTAL CROSS-CONNECT TERMINATION HARDWARE.

CABINETS AND RACKS (IN GROUDED SPACES WITHIN THE DATA CENTER)

CABINETS SHALL BE LABELED ON THE FRONT AND REAR TOP DOOR HEADER. RACKS SHALL BE LABELED ON THE FRONT AND REAR TOP CROSSBARS.

THE CABINET OR RACK IDENTIFIER SHALL BE FORMATTED AS THE FLOOR GRID COORDINATES.

EXAMPLE CABINET OR RACK IDENTIFIER FORMAT: A05

CABINETS AND RACKS (IN SPACES OUTSIDE THE DATA CENTER)

EQUIPMENT RACKS SHALL BE LABELED NUMERICALLY ALONG THE FRONT AND REAR TOP CROSSBARS, BEGINNING WITH "1" AS THE FIRST CABINET OR RACK ON THE LEFT VIEWED FROM THE FRONT IN EACH ROOM.

EXAMPLE CABINET OR RACK IDENTIFIER FORMAT: 2

TWISTED PAIR PATCH PANELS

TWISTED PAIR PATCH PANELS SHALL BE LABELED ON THE FRONT AT BOTH ENDS OF THE PANEL. PATCH PANELS SHALL BE LABELED WITH AN ALPHABETICAL IDENTIFIER. THIS IDENTIFIER FOR A RACK OR CABINET MOUNTED PANEL WILL BEGIN WITH THE LETTER "A" IN EACH RACK OR CABINET AND CONTINUE THROUGH THE ALPHABET AS MORE PATCH PANELS ARE ADDED TO THAT PARTICULAR RACK OR CABINET, WHERE INSTALLED BELOW FIBER TERMINATION CABINET(S) THE TOP MOST FIBER TERMINATION CABINET WILL BEGIN WITH THE LETTER "A" THE ALPHA CHARACTER FOR THE FIRST TWISTED PAIR PATCH PANEL SHALL FOLLOW THE LAST FIBER TERMINATION PANEL.

PORTS SHALL BE LABELED ON THE FRONT BELOW EACH PORT AND SHALL HAVE A CORRESPONDING LABEL ON TERMINATION BLOCK ON THE BACK.

EACH PATCH PANEL PORT SHALL BE LABELED AND IT SHALL HAVE THE FORMAT **o** = **fb** Ph, WHERE:

- o** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE PATCH PANEL, OR A GROUP OF PATCH PANELS (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q)
- s** = THREE NUMERIC CHARACTERS IDENTIFYING THE SPACE IN THE BUILDING AREA IN WHICH THE SPACE IS LOCATED (INCLUDE "T" PREFIX IN FOR SPACES IN LOGISTICS BUILDING)

fb = ONE TO TWO NUMERIC CHARACTERS UNIQUELY IDENTIFYING THE FLOOR BOX WITHIN THE SPACE (ELIMINATE THIS DESIGNATION IF FACEPLATE IS NOT LOCATED IN A FLOOR BOX).

P = ONE ALPHA CHARACTER UNIQUELY IDENTIFYING THE FACEPLATE WITHIN THE SPACE OR FLOOR BOX

- n** = TWO TO FOUR NUMERIC CHARACTERS DESIGNATING THE PORT ON A PATCH PANEL

EXAMPLE PATCH PANEL IDENTIFIER FORMAT: B

EXAMPLE PORT IDENTIFIER FORMAT: 142-2 A12 OR P107 A13

MULTIPLE TWISTED PAIR PATCH PANEL PORTS (WITHOUT SUB-PANELS)

WHERE MULTIPLE TWISTED PAIR CABLES TERMINATE ON PATCH PANELS AT BOTH ENDS THE PATCH PANELS SHALL BE LABELED TO INDICATE THE TERMINATED CABLE GROUPS AND SHALL HAVE THE FORMAT **c1-c2-nr**, WHERE:

- c1** = NEAR END CABINET OR RACK COORDINATES
- c2** = FAR END CABINET OR RACK COORDINATES
- o** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE PATCH PANEL, OR A GROUP OF PATCH PANELS (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q)
- nr** = NUMERIC CHARACTERS DESIGNATING THE PORT RANGE ON THE PATCH PANEL

EXAMPLE PATCH PANEL IDENTIFIER FORMAT: A05-B01-06/A003-A-01-06

IDC TERMINATION BLOCKS

EACH SECTION OF AN IDC CONNECTOR (TERMINATION BLOCK) TERMINATING A FOUR PAIR CABLE SHALL BE LABELED AND IT SHALL HAVE THE FORMAT **an** FOR THE IDENTIFIER. THE IDC CONNECTOR OR GROUP OF IDC CONNECTORS SHALL BE LABELED WITH THE "n" PORTION OF THE IDENTIFIER, AND THE SECTION OF AN IDC CONNECTOR TERMINATING A FOUR PAIR CABLE SHALL BE LABELED WITH THE "a" PORTION WHERE:

- a** = ONE TO TWO ALPHA CHARACTERS (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q) UNIQUELY IDENTIFYING AN IDC CONNECTOR, OR A GROUP OF IDC CONNECTORS, SERVING AS PART OF THE HORIZONTAL CROSS-CONNECT. THIS IDENTIFIER SHALL BEGIN WITH THE LETTER "A" AND CONTINUE THROUGH THE ALPHABET AS MORE PATCH PANELS ARE ADDED TO THAT PARTICULAR RACK OR CABINET.
- n** = TWO TO FOUR NUMERIC CHARACTERS DESIGNATING THE SECTION OF AN IDC CONNECTOR ON WHICH A FOUR PAIR HORIZONTAL CABLE IS TERMINATED

EXAMPLE IDC TERMINATION BLOCK IDENTIFIER FORMAT: B04

FIBER TERMINATION PANELS

FIBER TERMINATION PANELS SHALL BE LABELED ON THE FRONT AT BOTH ENDS OF THE PANEL. FIBER TERMINATION PANELS SHALL BE LABELED WITH AN ALPHABETICAL IDENTIFIER. THIS IDENTIFIER FOR A RACK OR CABINET MOUNTED PANEL WILL BEGIN WITH THE LETTER "A" IN EACH RACK OR CABINET AND CONTINUE THROUGH THE ALPHABET AS MORE PATCH PANELS ARE ADDED TO THAT PARTICULAR RACK OR CABINET.

USE MANUFACTURER PROVIDED LABELS AND MOUNTING SURFACES WHEREVER POSSIBLE. FIBER TERMINATION PANELS SHALL HAVE A LIST OF ALL FIBER CABLES THAT ARE HELD IN THE BOX (IF APPLICABLE). FIBERS SHALL BE INSTALLED IN EACH MODULE OF A FIBER TERMINATION PANEL FROM LEFT TO RIGHT AND UP TO DOWN IN THE BULKHEADS WITH THE STANDARD COLOR CODE FOR FIBER INSTALLATION. EACH FIBER TERMINATION SHALL BE LABELED ON THE BODY BY A NUMBER THAT CORRESPONDS TO ITS PLACEMENT IN THE COLOR CODE OF THE CABLE (BLUE = 1, ORANGE = 2, GREEN = 3, BROWN = 4, SLATE = 5, WHITE = 6, RED = 7, BLACK = 8, YELLOW = 9, VIOLET = 10, ROSE = 11 AND AQUA = 12) NUMBERS SHALL BEGAIN AT "1" AND WILL ASCEND FROM THERE. NUMBERS SHALL NOT REPEAT FOR DIFFERENT ENDER GROUPS, ONLY FOR DIFFERENT CLASSIFICATIONS OF FIBER. EACH BULKHEAD SHALL HAVE AN INDEPENDENT IDENTIFIER. IN FIBER PANELS THAT ARE SUBDIVIDED INTO MODULES, THE MODULES WILL BE LABELED WITH ALPHA CHARACTERS BEGINNING WITH "A" AND ASCENDING AND WILL BE READ FROM LEFT TO RIGHT OR UP TO DOWN IN ACCORDANCE WITH THE ORIENTATION OF THE MODULE. IN FIBER TERMINATION PANELS THAT ARE NOT SUBDIVIDED, THE INDIVIDUAL BULKHEADS WILL BE IDENTIFIED WITH A NUMBER.

EACH PATCH PANEL PORT SHALL BE LABELED AND IT SHALL HAVE THE FORMAT **o1o2n**, WHERE:

- o1** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE TERMINATION PANEL, OR A GROUP OF PATCH PANELS (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q)
- o2** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING THE MODULE (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q)
- n** = TWO TO FOUR NUMERIC CHARACTERS UNIQUELY IDENTIFYING THE BULKHEAD

EXAMPLE FIBER TERMINATION PANEL IDENTIFIER FORMAT: B

EXAMPLE MODULE IDENTIFIER FORMAT: C

EXAMPLE BULKHEAD IDENTIFIER FORMAT: 24

PRE-TERMINATED FIBER OPTIC CABLES

MULTI-FIBER TRUNK CABLES EQUIPPED WITH MPO (MULTI FIBER) CONNECTORS ON ONE END AND LC CONNECTORS ON THE OTHER END SHALL BE LABELED AND SHALL HAVE THE FORMAT **c1-o-nr/c2-nr** WHERE:

- c1** = NEAR END CABINET OR RACK COORDINATES
- c2** = FAR END CABINET OR RACK COORDINATES
- o** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE TERMINATION PANEL (23 CHARACTERS AVAILABLE - EXCLUDE I, O AND Q)
- nr** = NUMERIC CHARACTERS DESIGNATING THE PORT RANGE ON THE TERMINATION PANEL

EXAMPLE IDENTIFIER FORMAT FOR 12-STRAND MULTI-FIBER TRUNK CABLE EQUIPPED WITH MPO (MULTI FIBER) CONNECTORS ON ONE END AND LC CONNECTORS ON THE OTHER END: A02B-8-PORTS 01-12/A00B-01-PORTS 01-12

HORIZONTAL CABLES

THE HORIZONTAL LINK IDENTIFIER SHALL HAVE A FORMAT OF **fs-on** WHERE:

- f** = NUMERIC CHARACTER(S) IDENTIFYING THE FLOOR OF THE BUILDING OCCUPIED BY THE TS
- s** = ALPHA CHARACTER(S) UNIQUELY IDENTIFYING THE TS ON FLOOR F, OR THE BUILDING AREA IN WHICH THE SPACE IS LOCATED
- o** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE PATCH PANEL OR A GROUP OF PATCH PANELS WITH SEQUENTIALLY NUMBERED PORTS, AN IDC CONNECTOR OR A GROUP OF IDC CONNECTORS SERVING AS PART OF THE HORIZONTAL CROSS-CONNECT
- n** = TWO TO FOUR NUMERIC CHARACTERS DESIGNATING THE PORT ON A PATCH PANEL IN THE TS OR THE SECTION OF AN IDC CONNECTOR ON WHICH A FOUR PAIR HORIZONTAL CABLE IS TERMINATED IN THE TS

EXAMPLE CABLE IDENTIFIER FORMAT: TR1C-C02

FLOOR BOXES

FLOOR BOX SHALL BE LABELED ON THE LID IN A WAY THAT CLEARLY IDENTIFIES THE INDIVIDUAL BOX ASSOCIATED WITH THE PARTICULAR IDENTIFIER. A HORIZONTAL LINK IDENTIFIER SHALL HAVE A FORMAT OF **so** WHERE:

- s** = THREE NUMERIC CHARACTERS IDENTIFYING THE SPACE IN THE BUILDING AREA IN WHICH THE SPACE IS LOCATED
- o** = ONE TO TWO ALPHA CHARACTER UNIQUELY IDENTIFYING THE FLOOR BOX WITHIN THE SPACE

EXAMPLE FLOOR BOX IDENTIFIER FORMAT: 142A

WORK AREA OUTLETS

IN THE WORK AREA, EACH INDIVIDUAL TELECOMMUNICATIONS OUTLET/CONNECTOR SHALL BE LABELED WITH THE HORIZONTAL LINK IDENTIFIER. THE LABELING SHALL APPEAR ON THE FACEPLATE IN A WAY THAT CLEARLY IDENTIFIES THE INDIVIDUAL CONNECTOR ASSOCIATED WITH THE PARTICULAR IDENTIFIER. A HORIZONTAL LINK IDENTIFIER SHALL HAVE A FORMAT OF **fs-on** WHERE:

- f** = NUMERIC CHARACTER(S) IDENTIFYING THE FLOOR OF THE BUILDING OCCUPIED BY THE TS (TELECOMMUNICATIONS SPACE)
- s** = ALPHA CHARACTER(S) UNIQUELY IDENTIFYING THE TS ON FLOOR F, OR THE BUILDING AREA IN WHICH THE SPACE IS LOCATED
- o** = ONE TO TWO ALPHA CHARACTERS UNIQUELY IDENTIFYING A SINGLE PATCH PANEL OR A GROUP OF PATCH PANELS WITH SEQUENTIALLY NUMBERED PORTS, AN IDC CONNECTOR, OR A GROUP OF IDC CONNECTORS, SERVING AS PART OF THE HORIZONTAL CROSS-CONNECT
- n** = TWO TO FOUR NUMERIC CHARACTERS DESIGNATING THE PORT ON A PATCH PANEL IN THE TS OR THE SECTION OF AN IDC CONNECTOR ON WHICH A FOUR PAIR HORIZONTAL CABLE IS TERMINATED IN THE TS

EXAMPLE WORK AREA IDENTIFIER FORMAT: TR1C-B02

THE HORIZONTAL LINK (HL) RECORD SHALL CONTAIN THE FOLLOWING INFORMATION:

- HORIZONTAL LINK IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G.: A47)
- CABLE TYPE (E.G.: 4 PR. UTP, CATEGORY 6A, PLENUM)
- LOCATION OF TELECOMMUNICATIONS OUTLET/CONNECTOR (ROOM, OFFICE, OR GRID LOCATION)
- OUTLET CONNECTOR TYPE (E.G.: 8 POSITION MODULAR, T568B, CATEGORY 6A)
- CABLE LENGTH (E.G.: 51M/154FT)
- LOCATION OF TS AND OR CP
- CROSS-CONNECT HARDWARE TYPE (E.G.: 48 PORT MODULAR PATCH PANEL, T568B, CATEGORY 6A)
- SERVICE RECORD OF LINK (E.G.: PASSED CATEGORY 6A AT INSTALLATION 1/12/12, RE-TERMINATED AND RE-TESTED AT CROSS-CONNECT 4/22/12 DUE TO BROKEN WIRE)

THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR SHALL BE LABELED WITH THE **tmgsb** IDENTIFIER. THE FORMAT FOR THE **tmgsb** IDENTIFIER SHALL BE **fs-tmgsb** WHERE:

- fs** = TS (TELECOMMUNICATIONS SPACE) IDENTIFIER FOR THE SPACE CONTAINING THE **tmgsb**
- tmgsb** = PORTION OF AN IDENTIFIER DESIGNATING THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

EXAMPLE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR IDENTIFIER FORMAT: E71A - TMGSB

THE **TMGSB** RECORD SHALL CONTAIN THE FOLLOWING INFORMATION:

- TELECOMMUNICATIONS MAIN GROUNDING BUSBAR IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G.: TMGSB)
- LOCATION OF THE **tmgsb** (TS IDENTIFIER)
- SIZE OF THE **tmgsb**
- LOCATION OF ATTACHMENT OF **tmgsb** TO ELECTRICAL SYSTEM GROUND OR BUILDING STRUCTURAL STEEL
- LOCATION OF TEST RESULTS FOR ANY TESTS PERFORMED ON THE **tmgsb**, SUCH AS RESISTANCE TO GROUND

TELECOMMUNICATIONS GROUNDING BUSBARS

EACH TELECOMMUNICATIONS GROUNDING BUSBAR SHALL BE LABELED WITH THE **tgbsb** IDENTIFIER. A UNIQUE **tgbsb** IDENTIFIER SHALL BE ASSIGNED TO EACH TOB AND THE FORMAT FOR THE **tgbsb** IDENTIFIER SHALL BE **fs-tgbsb** WHERE:

- fs** = TS IDENTIFIER FOR THE SPACE CONTAINING THE TOB
- tgbsb** = PORTION OF AN IDENTIFIER DESIGNATING A TELECOMMUNICATIONS GROUNDING BUSBAR

EXAMPLE TELECOMMUNICATIONS GROUNDING BUSBAR IDENTIFIER FORMAT: TR1C - TGBSB

THE **TGBSB** RECORD SHALL CONTAIN THE FOLLOWING INFORMATION:

- TELECOMMUNICATIONS GROUNDING BUSBAR IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G.: TR1C - TGBSB)
- LOCATION OF THE **tgbsb** (TS IDENTIFIER)
- SIZE OF THE **tgbsb**
- LOCATION OF TEST RESULTS FOR ANY TESTS PERFORMED ON THE **tgbsb**, SUCH AS RESISTANCE TO GROUND

INTRABUILDING BACKBONE CABLES

A UNIQUE BACKBONE CABLE IDENTIFIER SHALL BE ASSIGNED TO EACH BACKBONE CABLE BETWEEN TWO TS'S IN ONE BUILDING AND SHALL BE MARKED ON EACH END OF THE BACKBONE CABLE WITHIN 12 INCHES OF THE END OF THE CABLE JACKET. IT SHALL HAVE A FORMAT OF **fb1/fb2-n**, WHERE:

- fb1** = TS IDENTIFIER FOR THE SPACE CONTAINING THE TERMINATION OF ONE END OF THE BACKBONE CABLE
- fb2** = TS IDENTIFIER FOR THE SPACE CONTAINING THE TERMINATION OF THE OTHER END OF THE BACKBONE CABLE
- n** = ONE OR TWO ALPHA-NUMERIC CHARACTERS IDENTIFYING A SINGLE CABLE WITH ONE END TERMINATED IN THE TS DESIGNATED **fb1** AND THE OTHER END TERMINATED IN THE TS DESIGNATED **fb2**

IN THIS FORMAT, THE TS WITH THE LESSER ALPHA-NUMERIC IDENTIFIER SHALL BE LISTED FIRST.

EXAMPLE INTRABUILDING BACKBONE CABLE IDENTIFIER FORMAT: E71A/TR2A-2

INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER

A UNIQUE INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER IDENTIFIER SHALL BE USED TO IDENTIFY EACH SINGLE COPPER PAIR OR EACH SINGLE OPTICAL FIBER IN A BACKBONE CABLE BETWEEN TWO TS'S IN ONE BUILDING, AND SHALL HAVE A FORMAT **fb1/fb2-n-c** WHERE:

- fb1/fb2-n-c** = AN INTRABUILDING BACKBONE CABLE IDENTIFIER
- d** = TWO TO FOUR NUMERIC CHARACTERS IDENTIFYING A SINGLE COPPER PAIR OR A SINGLE OPTICAL FIBER

EXAMPLE INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER IDENTIFIER FORMAT: E71A/TR2A-212

THE BACKBONE CABLE RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

- BACKBONE CABLE IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G., 2A/3A-1)
- TYPE OF CABLE (E.G., 600-PAIR 24 AWG SHIELDED RISER CABLE)
- TYPE OF CONNECTING HARDWARE, FIRST TS (E.G., 36 5685C DUPLEX ADAPTER PANEL)
- TYPE OF CONNECTING HARDWARE, SECOND TS (E.G., 36 5685C DUPLEX ADAPTER PANEL)
- CROSS-CONNECT TABLE RELATING EACH BACKBONE CABLE PAIR OR OPTICAL FIBER TO OTHER BACKBONE CABLE PAIRS OR OPTICAL FIBERS OR TO A HORIZONTAL LINK.

FIBERSTOPPING

A FIBERSTOPPING LOCATION (FSL) IDENTIFIER SHALL IDENTIFY EACH INSTALLATION OF FIBERSTOPPING MATERIAL. THE FORMAT FOR THE FIBERSTOPPING LOCATION IDENTIFIER SHALL BE **f-FSL(n)**, WHERE:

- f** = NUMERIC CHARACTER(S) IDENTIFYING THE FLOOR OF THE BUILDING OCCUPIED BY THE TS (TELECOMMUNICATIONS SPACE)
- FSL** = AN IDENTIFIER REFERRING TO A FIBERSTOPPING LOCATION
- n** = TWO TO FOUR NUMERIC CHARACTERS IDENTIFYING ONE FIBERSTOPPING LOCATION
- h** = ONE NUMERIC CHARACTER SPECIFYING THE HOUR RATING OF THE FIBERSTOPPING SYSTEM

EACH FIBERSTOPPING LOCATION SHALL BE LABELED AT EACH LOCATION WHERE FIBERSTOPPING IS INSTALLED, ON EACH SIDE OF THE PENETRATED FIRE BARRIER, WITHIN 12 INCHES OF THE FIBERSTOPPING MATERIAL.

EXAMPLE WORK AREA IDENTIFIER FORMAT: 1FSLO2(1)

THE FIBERSTOPPING RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

- FIBERSTOPPING LOCATION IDENTIFIER (PRIMARY INDEXING IDENTIFIER, E.G., 1FSLO2(1))

J AND REPLACED WITH SAME TYPE BY ABC CABLING TO ADD CABLING RUNS)

INTRABUILDING BACKBONE CABLES

A UNIQUE INTRABUILDING BACKBONE CABLE IDENTIFIER SHALL BE ASSIGNED TO EACH BACKBONE CABLE CONNECTING TS'S IN DIFFERENT BUILDINGS AND SHALL BE MARKED ON EACH END OF THE BACKBONE CABLE WITHIN 12 INCHES OF THE END OF THE CABLE JACKET. IT SHALL HAVE THE FORMAT (b1-fb1)(b2-fb2)-n, WHERE:

- b1-fb1** = BUILDING IDENTIFIER AND TS IDENTIFIER FOR THE TS IN WHICH ONE END OF THE BACKBONE CABLE IS TERMINATED
- b2-fb2** = BUILDING IDENTIFIER AND TS IDENTIFIER FOR THE TS IN WHICH THE OTHER END OF THE BACKBONE CABLE IS TERMINATED
- n** = ONE OR TWO ALPHA-NUMERIC CHARACTERS IDENTIFYING A SINGLE CABLE WITH ONE END TERMINATED IN THE TS DESIGNATED **fb1** AND THE OTHER END TERMINATED IN THE TS DESIGNATED **fb2**

IN THIS FORMAT, THE BUILDING WITH THE LESSER ALPHA-NUMERIC IDENTIFIER SHALL BE LISTED FIRST.

EXAMPLE INTRABUILDING BACKBONE CABLE IDENTIFIER FORMAT: LG-071A/MN-E71A-2 WHERE:

- LG** = LOGISTICS BUILDING
- MN** = MAIN BUILDING

A UNIQUE INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER IDENTIFIER SHALL BE ASSIGNED TO EACH PAIR OR OPTICAL FIBER IN A BACKBONE CABLE CONNECTING TS'S IN DIFFERENT BUILDINGS, AND IT SHALL HAVE THE FORMAT (b1-fb1)(b2-fb2)-n-d, WHERE:

- (b1-fb1)(b2-fb2)-n** = INTRABUILDING BACKBONE CABLE IDENTIFIER
- d** = TWO TO FOUR NUMERIC CHARACTERS IDENTIFYING A SINGLE COPPER PAIR OR A SINGLE OPTICAL FIBER

EXAMPLE INTRABUILDING BACKBONE PAIR OR OPTICAL FIBER IDENTIFIER FORMAT: LG-17A/MN-1ERB-212 WHERE:

- LG** = LOGISTICS BUILDING
- MN** = MAIN BUILDING

THE INTRABUILDING BACKBONE CABLE RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

- INTRABUILDING BACKBONE CABLE IDENTIFIER (THE PRIMARY INDEXING IDENTIFIER, E.G., LG-17A/MN-1ERB-2)
- TYPE OF CABLE (E.G., 36 OPTICAL FIBER, 50/125MM, GEL FILLED, COPPER ARMOR)
- TYPE OF CONNECTING HARDWARE, FIRST TS (E.G., 36 5685C DUPLEX ADAPTER PANEL)
- TYPE OF CONNECTING HARDWARE, SECOND TS (E.G., 36 5685C DUPLEX ADAPTER PANEL)
- TABLE RELATING BACKBONE TERMINATIONS TO OTHER BACKBONE TERMINATIONS OR HORIZONTAL LINKS, TO WHICH THEY ARE CROSS-CONNECTED.

BUILDING

A UNIQUE BUILDING IDENTIFIER SHALL BE ASSIGNED TO EACH BUILDING, AND IT SHALL HAVE THE FORMAT **B**, WHERE:

- B** = ONE OR MORE ALPHA-NUMERIC CHARACTERS IDENTIFYING A SINGLE BUILDING

EXAMPLE BUILDING IDENTIFIER FORMAT: LG OR MN WHERE:

- LG** = LOGISTICS BUILDING
- MN** = MAIN BUILDING

THE BUILDING RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

- BUILDING NAME (THE PRIMARY INDEXING IDENTIFIER, E.G., MN OR LG)
- BUILDING LOCATION (E.G., STREET ADDRESS)
- A LIST OF ALL TS'S AND THEIR LOCATIONS IN THE BUILDING
- CONTACT INFORMATION FOR ACCESS
- ACCESS HOURS

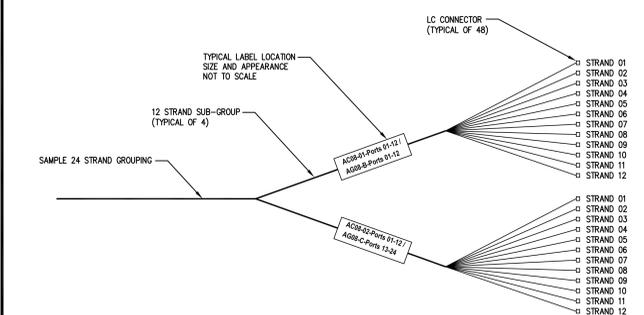
CONDUITS

CONDUITS SHALL BE LABELED WITH A PATHWAY IDENTIFIER AT EACH END WITHIN 4' OF TERMINATION AND SHALL HAVE THE FOLLOWING FORMAT:

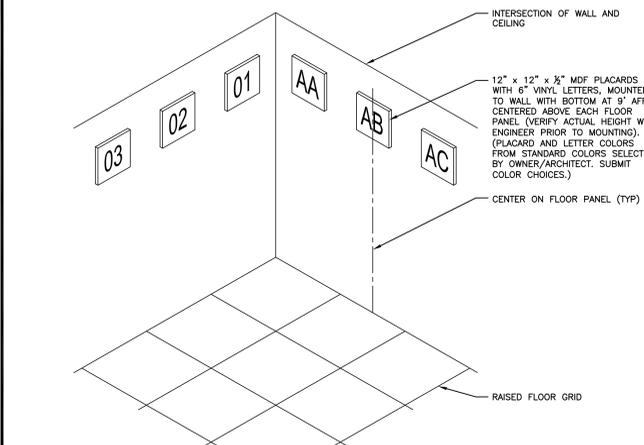
- fs** = IDENTIFIER FOR THE TS IN WHICH THE OPPOSITE END OF THE CONDUIT TERMINATES
- B-fs** = BUILDING IDENTIFIER IN WHICH THE OPPOSITE END OF THE CONDUIT TERMINATES
- fs** = IDENTIFIER FOR THE TS IN WHICH THE OPPOSITE END OF THE CONDUIT TERMINATES

THE PATHWAY RECORDS SHALL CONTAIN THE FOLLOWING INFORMATION:

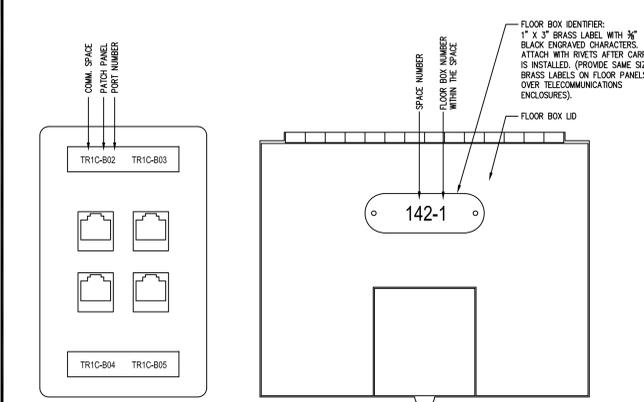
- PATHWAY IDENTIFIER AND PATHWAY TYPE (E.G.: CONDUIT)
- GROUNDING RECORD



A EXAMPLE PRE-TERMINATED CABLE LABELING SCHEME N.T.S.



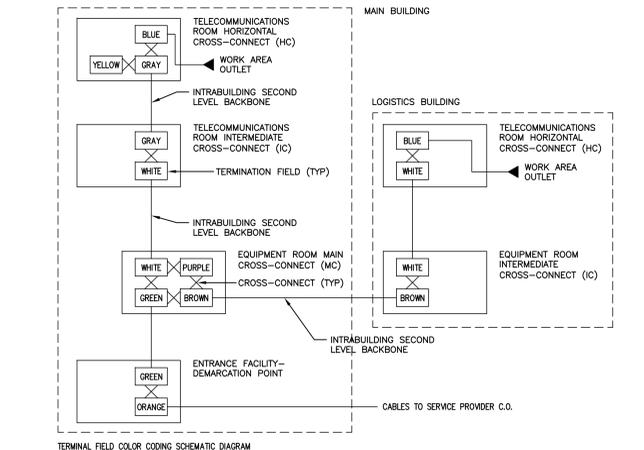
B DATA CENTER FLOOR GRID LABELING N.T.S.

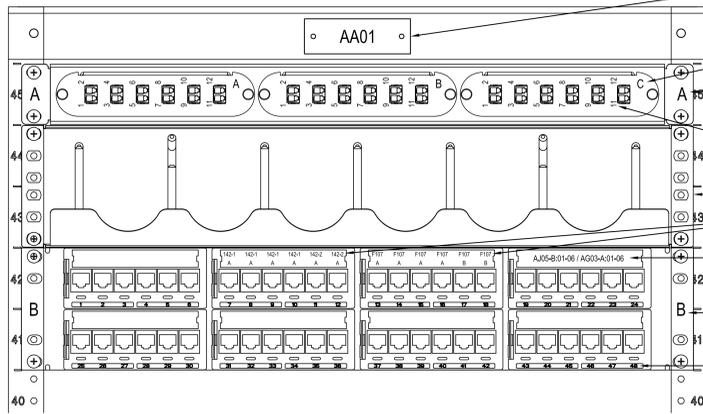


C FLOOR BOX AND FACEPLATE LABEL EXAMPLE N.T.S.

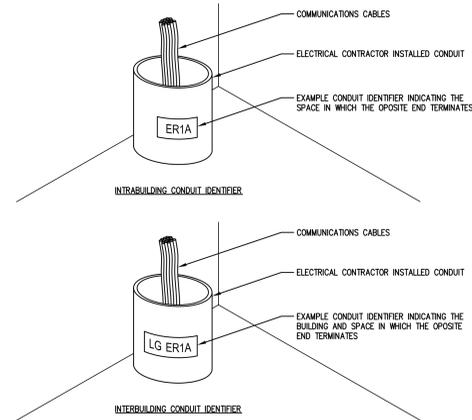
TERMINATION TYPE	COLOR	APPLICATION
DEMARICATION POINT	ORANGE	CENTRAL OFFICE CONNECTION
NETWORK CONNECTION	GREEN	USER SIDE OF CENTRAL OFFICE CONNECTION
COMMON EQUIPMENT	PURPLE	CONNECTIONS TO PBX, MAINFRAME COMPUTER, LAN, MULTIPLEXER
KEY SYSTEM	RED	CONNECTIONS TO KEY TELEPHONE SYSTEMS
FIRST LEVEL BACKBONE	WHITE	TERMINATIONS OF INTRABUILDING BACKBONE CABLE CONNECTING MIC TO ICS
SECOND LEVEL BACKBONE	BROWN	TERMINATION OF INTRABUILDING BACKBONE CABLE CONNECTING ICS TO HCS
INTRABUILDING BACKBONE	GRAY	TERMINATION OF BACKBONE CABLE BETWEEN BUILDINGS
HORIZONTAL	BLUE	TERMINATIONS OF HORIZONTAL CABLE IN TSs
MISCELLANEOUS	YELLOW	ALARMS, SECURITY, OR ENERGY MANAGEMENT

D COLOR CODING OF TERMINAL FIELDS N.T.S.

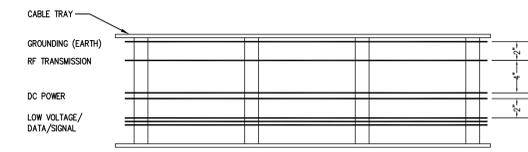




G EXAMPLE CABINET, RACK AND PATCH PANEL LABELING SCHEME N.T.S.

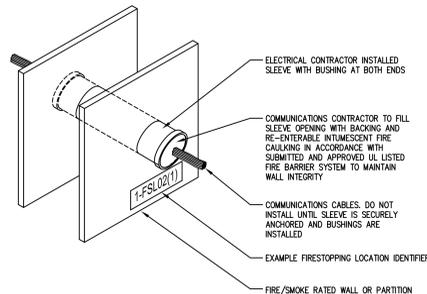


B CONDUIT LABEL EXAMPLE N.T.S.

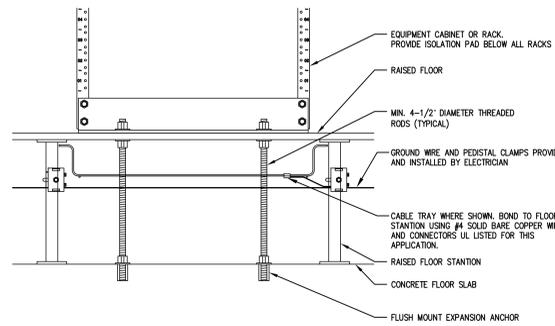


- CABLE GROUPS SHALL BE SEPARATED A MINIMUM OF 2 INCHES FROM OTHER CABLE GROUPS. (SEE ANSI/TIA/EIA-568(C) AND 569(D); NFPA 70-2005, ARTICLES 800-133, 800-16, AND 820-133 FOR ADDITIONAL INFORMATION).
- TRANSMISSION LINES (COAX) FOR TRANSMISSION STATIONS SHALL BE SEPARATED A MINIMUM OF 4 INCHES FROM ELECTRICAL LIGHTS, POWER, AND SIGNALING CIRCUITS (NFPA 70-2005, ARTICLE 810.70).
- GROUPS ARE DEFINED AS:
 - AC POWER, DC POWER, GROUND CONDUCTOR AND RF TRANSMISSION CABLEING
 - DATA, CONTROL, SIGNAL AND TIMING REFERENCE CABLEING
 - TELEPHONE CABLEING
- AT A MINIMUM THE ABOVE GROUP SEPARATION MUST BE MAINTAINED, HOWEVER WITH ADEQUATE CABLE TRAY SPACE, LOGICAL SUB-GROUPS ARE PERMITTED SUCH AS, BUNDLES OF DC CABLEING, BUNDLES OF RF CABLEING, ETC.
- AC POWER CABLES SHALL NOT BE RUN IN THE SAME CABLE TRAY AS COMMUNICATIONS CABLES.

A CABLE SEPARATION AND GROUPING WITHIN CABLE TRAYS N.T.S.



H PENETRATION DETAIL THRU FIRE/SMOKE RATED AND FULL HEIGHT PARTITIONS N.T.S.



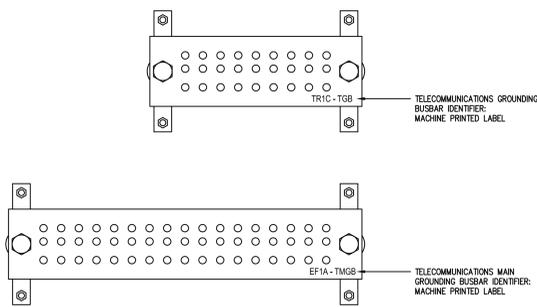
D EQUIPMENT CABINET AND RACK ANCHORAGE TO RAISED FLOORS N.T.S.

AREA OF WORK OR CATEGORY OF EQUIPMENT

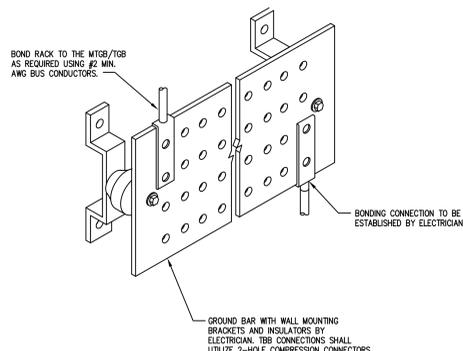
NOTE: THIS MATRIX IS INTENDED TO INDICATE A GENERAL LISTING OF THE WORK AND MATERIALS TO BE PROVIDED AND INSTALLED BY THE VARIOUS TRADES FOR COORDINATION PURPOSES ONLY. IT IS NOT INTENDED TO BE ALL-INCLUSIVE. EACH TRADE IS RESPONSIBLE FOR PROVIDING AND INSTALLING HIS RESPECTIVE COMPLETE AND WORKING SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS FOR THE EXTENT OF WORK INVOLVED.

		OWNER	ELECTRICAL	TELECOMMUNICATIONS	VISUALIZATION/COLLABORATION	SECURITY	RADIO	MECHANICAL	CONTR. PROVIDE	OWNER INSTALL	GENERAL CONTR. PROVIDE	GENERAL CONTR. INSTALL	ELECTRICAL CONTR. PROVIDE	ELECTRICAL CONTR. INSTALL	TELECOM CONTR. PROVIDE	TELECOM CONTR. INSTALL	VISUALIZ. CONTR. PROVIDE	VISUALIZ. CONTR. INSTALL	SECURITY CONTR. PROVIDE	SECURITY CONTR. INSTALL	RADIO CONTR. PROVIDE	RADIO CONTR. INSTALL	MECHANICAL CONTR. PROVIDE	MECHANICAL CONTR. INSTALL
OWNER	NETWORK SERVERS, SWITCHES, ROUTERS, DATA STORAGE AND RETRIEVAL EQUIPMENT, KVM DEVICES, POWER STRIPS FOR CABINETS AND EQUIPMENT RACKS																							
	COMPUTERS, OPERATING SYSTEM SOFTWARE, APPLICATION SOFTWARE, KEYBOARDS, MICE, MONITORS, PRINTERS, COPIERS, FAX MACHINES																							
	EQUIPMENT CABINETS, IN-ROW COOLING UNITS (INCLUDING CONNECTION TO CHILLED WATER PIPING), HOT ISLE CONTAINMENT SYSTEM, BONDING OF CABINETS TO THE BUILDING GROUNDING SYSTEM																							
	VOP SWITCHES AND SERVICES, PA CAPABILITIES, TELEPHONE HANDSETS																							
	911 SWITCHES AND SERVICES																							
	DIALTONE SERVICES AND ASSOCIATED RACKS AND EQUIPMENT																							
	CATV SERVICES AND EQUIPMENT																							
	RTMC VIDEO WALL AND EQUIPMENT																							
	CONSOLES AND FURNITURE																							
	WIRELESS HEADSETS																							
	CROSS CONNECTIONS AT THE DEMARC																							
	COPPER PATCH CORDS AT WORK STATIONS																							
	FIBER AND COPPER PATCH CORDS AT PATCH PANELS																							
ELECTRICAL	ELECTRONIC DOOR STRIKES, BLOCKING IN WALLS AND CEILINGS FOR MATRIXED DISPLAYS, PROJECTORS, TV, INTERACTIVE WHITEBOARDS, ETC.																							
	BUILDING GROUNDING SYSTEM																							
	ELECTRIC BUS DUCT SYSTEM IN THE DATA CENTER																							
	WORK STATION FLOOR BOXES																							
	CONDUITS BETWEEN COMMUNICATIONS ROOMS																							
	CONDUITS, BACKBOXES, HAND HOLES, PULL BOXES																							
	SLEEVES THROUGH FLOORS AND FIRE/SMOKE RATED AND FULL-HEIGHT WALLS AND PARTITIONS																							
	BACKBOARDS IN COMMUNICATIONS ROOMS																							
	GROUNDING BUSBARS IN COMMUNICATIONS ROOMS																							
	LINE VOLTAGE POWER TO DEVICES																							
	BONDING OF NETWORK OPERATOR FURNITURE INSTALLED AT THE TIME OF SUBSTANTIAL COMPLETION																							
TELECOMMUNICATIONS	EQUIPMENT RACKS AND TELECOMMUNICATIONS ENCLOSURES																							
	VERTICAL AND HORIZONTAL CABLE MANAGERS IN CABINETS AND EQUIPMENT RACKS																							
	FIBER AND COPPER PATCH PANELS																							
	LADDER RACKS IN THE COMMUNICATIONS ROOMS																							
	J-HOOKS BETWEEN WORKSTATION OUTLETS AND BELOW-FLOOR CABLE TRAYS OR IN CEILINGS																							
	OVERHEAD CABLE TRAYS IN THE DATA CENTER AND BELOW-FLOOR CABLE TRAYS, THROUGH-FLOOR GRAMMETS																							
	BONDING OF EQUIPMENT, EQUIPMENT RACKS AND LADDER RACKS AND CABLE TRAYS TO THE BUILDING GROUNDING SYSTEM																							
	WORK STATION FACEPLATES AND COMPUTER/PHONE JACKS																							
	HORIZONTAL CABLES (CATEGORY 6) BETWEEN WORKSTATION JACKS AND PATCH PANELS																							
	FIBER, COPPER AND COAX BACKBONE CABLES																							
	BONDING OF OUTER SHIELDS OF TELECOMMUNICATIONS CABLES																							
	ALL NECESSARY TV SYSTEM TAPS AND SPLITTERS FOR THE COAX CABLES, MODULATORS, FILTERS, ENCODERS AND COMBINERS																							
	TV SIGNAL AMPLIFIER AT THE TV SERVICE PROVIDER DEMARC (IF NEEDED, BASED ON TEST RESULTS)																							
	SURGE SUPPRESSORS FOR COPPER CABLES BETWEEN BUILDINGS																							
	FIRESTOPPING OF SLEEVES AFTER NETWORK CABLES ARE PULLED																							
	MACHINE PRINTED LABELING OF COMMUNICATIONS SPACES, FACEPLATES, CABINETS, RACKS, GROUNDING BARS, COMMUNICATIONS AND SECURITY CABLES, PATCH PANELS, PENETRATIONS AND CONDUITS																							
	MICROSOFT WINDOWOS BASED CABLE MANAGEMENT SOFTWARE PROGRAM																							
	FRAMED CABLE SCHEDULE MOUNTED IN THE COMMUNICATIONS ROOMS SHOWING THE CABLEING AND WORKSTATION LOCATIONS AND LABELING SCHEME, FLOOR GRID PLACKARDS IN THE DATA CENTER																							
	PERMANENT LINK TESTING AND DOCUMENTATION OF NETWORK CABLE INSTALLATIONS AFTER TERMINATION																							
VISUALIZATION/COLLABORATION	VISUALIZATION/COLLABORATION SYSTEM INTEGRATION HARDWARE, SOFTWARE, CABINETS AND RACKS																							
	FLAT PANEL DISPLAYS, VIDEO CUBES, HD MONITORS, TV, PROJECTORS, MOUNTS AND BASES																							
	INTERACTIVE WHITEBOARDING DEVICES AND SOFTWARE																							
	AUDIO SYSTEMS ASSOCIATED WITH VISUALIZATION/COLLABORATION																							
	VISUALIZATION/COLLABORATION CABLES AND CONNECTORS (OTHER THAN NETWORK CABLES)																							
	HORIZONTAL CABLES TO TV AND DISPLAY OUTLETS																							
	TV OUTLET FACEPLATES AND CONNECTORS																							
	FIRESTOPPING OF SLEEVES AFTER VISUALIZATION/COLLABORATION CABLES ARE PULLED																							
	TESTING AND DOCUMENTATION OF VISUALIZATION/COLLABORATION SYSTEMS																							
SECURITY	SECURITY CAMERAS, MONITORS, CPUs AND SERVERS WITH OPERATING SYSTEM AND APPLICATION SOFTWARE, SWITCHES, PRINTERS, NVR, CONTROLLERS, CARDS, READERS, AND ASSOCIATED CABLEING																							
	AUDIO/VIDEO DOOR DEVICES, CONTROLLERS AND ASSOCIATED WIRING																							
	BONDING OF EQUIPMENT TO THE BUILDING GROUNDING SYSTEM																							
	SURGE SUPPRESSORS FOR COPPER CABLES BETWEEN BUILDINGS																							
	SECURITY CABLES AND BONDING OF OUTER SHIELDS, SECURITY RELATED FIBER AND COPPER PATCH CORDS																							
	TESTING AND DOCUMENTATION OF SECURITY SYSTEM, TRAINING																							
RADIO	PIPING TO IN-ROW COOLING UNITS																							
	RADIO EQUIPMENT, CABLEING AND TERMINATION, GROUNDING, LABELING, FIRESTOPPING AND SEALING OF SLEEVES AFTER RADIO CABLES ARE PULLED, TESTING AND DOCUMENTATION																							
	BONDING OF OUTER SHIELDS OF RADIO CABLES																							

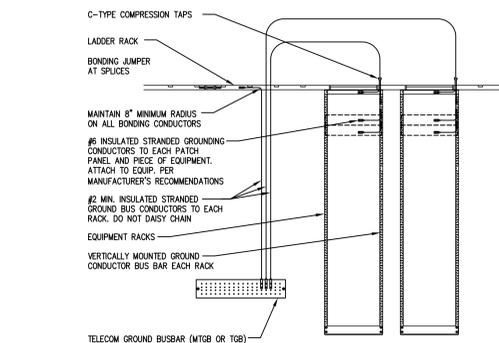
I EXAMPLE TELECOMMUNICATIONS GROUNDING BUSBAR LABELING SCHEME N.T.S.



J TELECOMMUNICATIONS GROUNDING BUSBAR (TMGB OR TGB) DETAIL N.T.S.

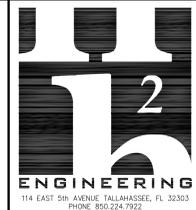


E CABINET GROUNDING DETAIL N.T.S.



F LADDER RACK AND EQUIPMENT RACK GROUNDING DETAIL N.T.S.

C TECHNOLOGY RESPONSIBILITY MATRIX



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James R. McVicker, RCDD #121999

CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



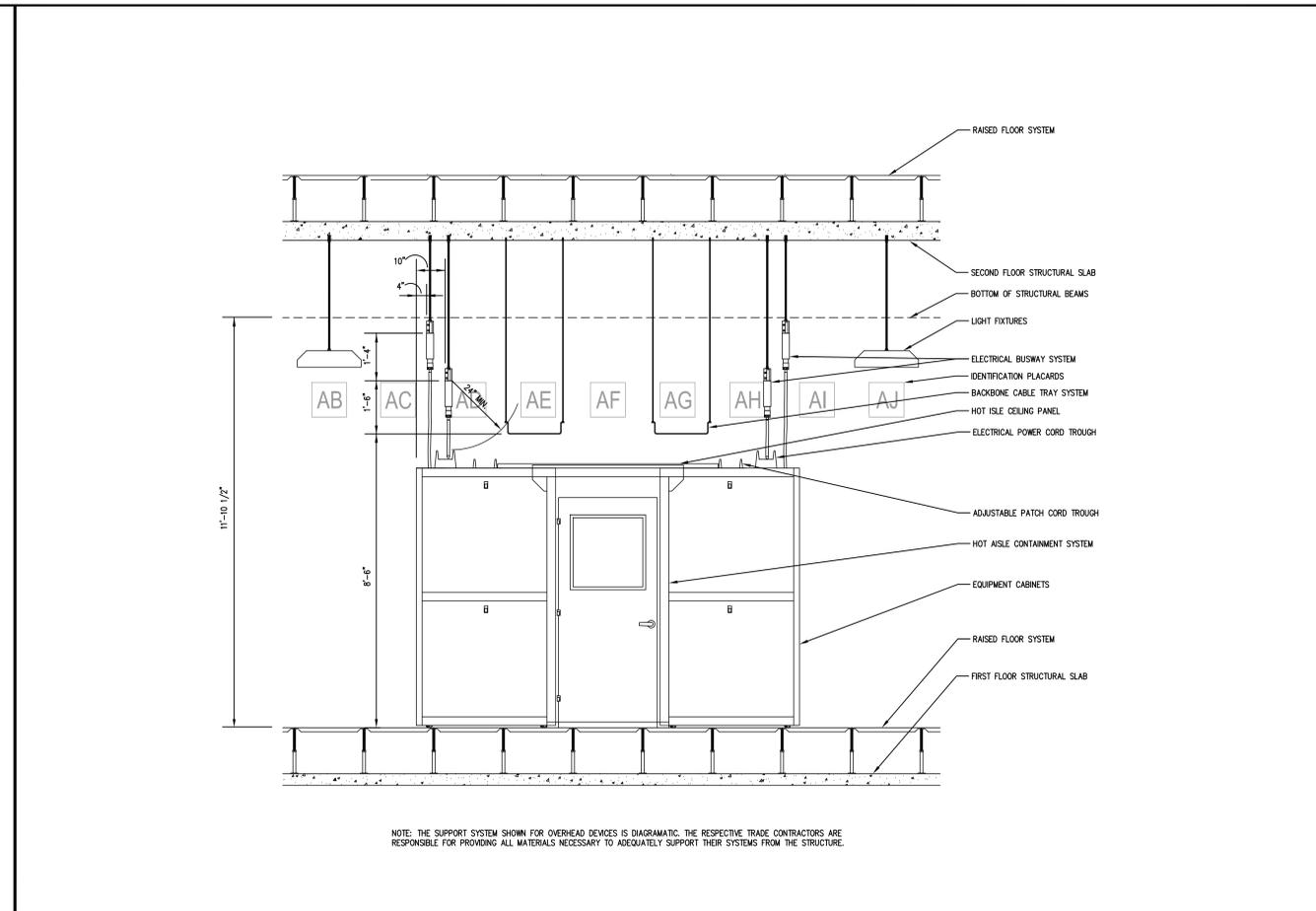
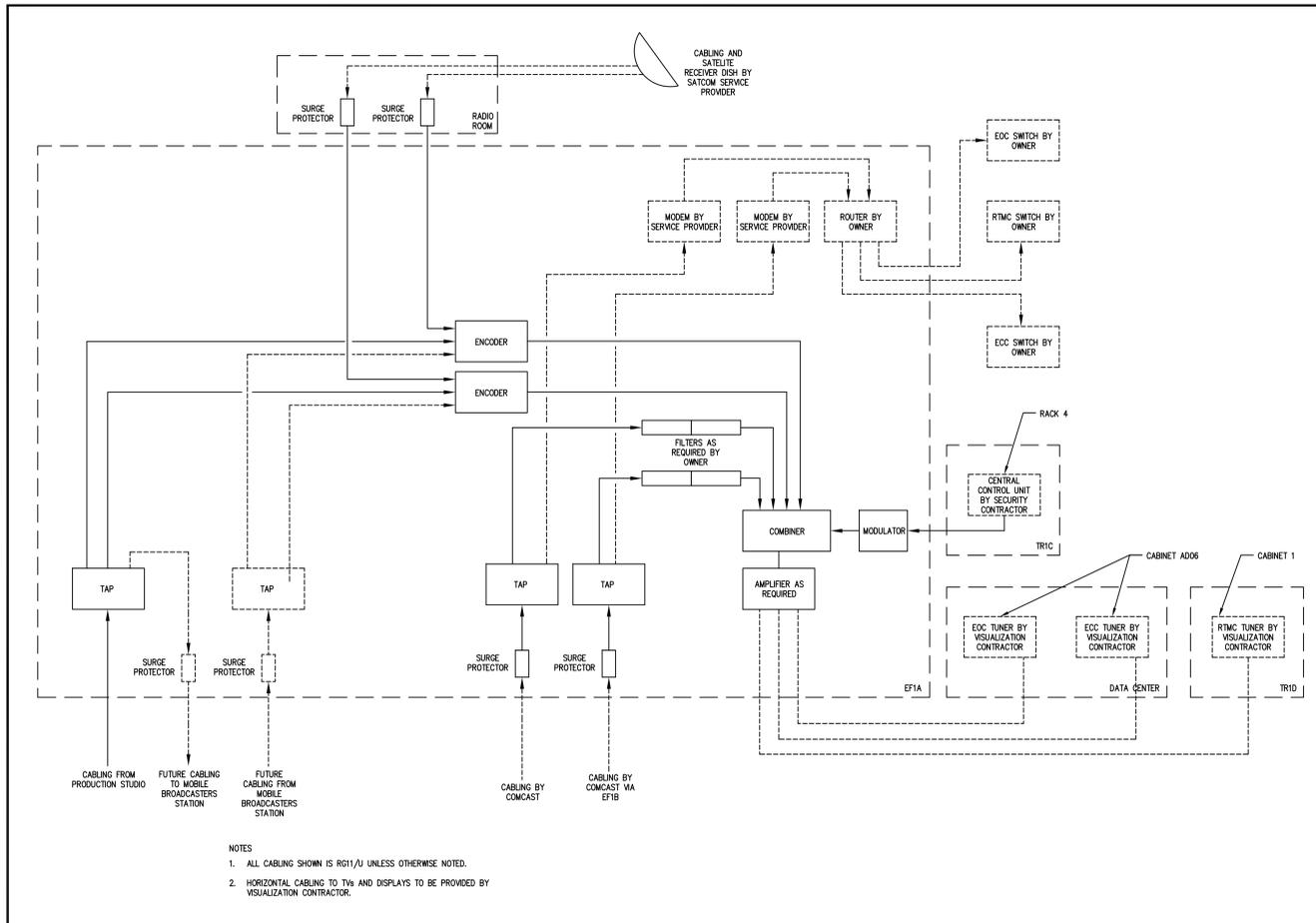
Clemons, Rutherford & Associates Inc.

Architects
Interior Designers
Construction Managers

2027 Thomasville Road Tallahassee, Florida 32308

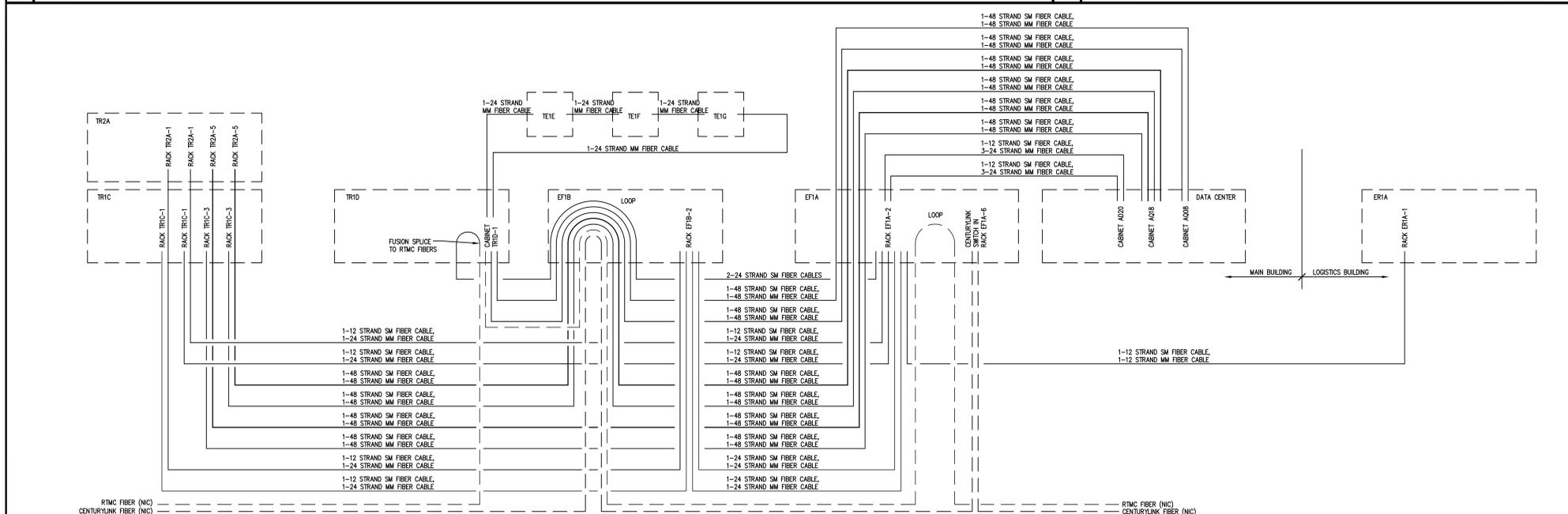
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e-mail cra@clemons-rutherford.com

The drawings, specifications and other documents prepared by Clemons, Rutherford & Associates, Inc. (CRA) for

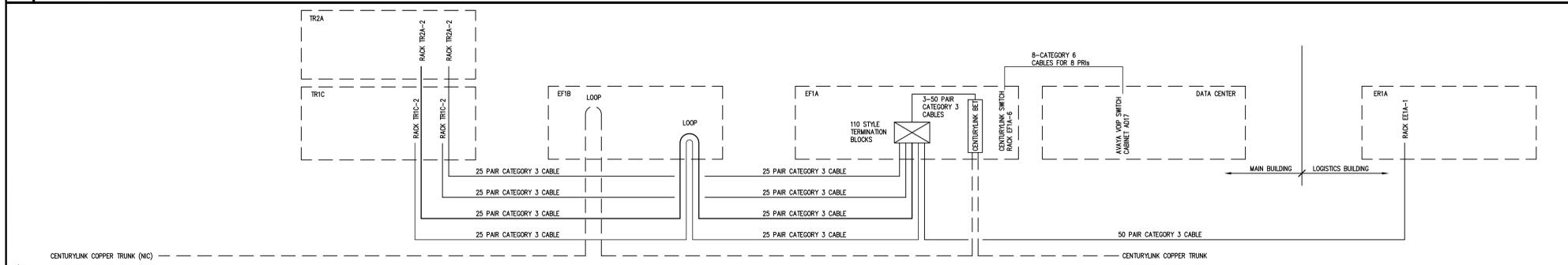


D CATV, SATCOM AND INTERNET SERVICE DISTRIBUTION RISER DIAGRAM N.T.S.

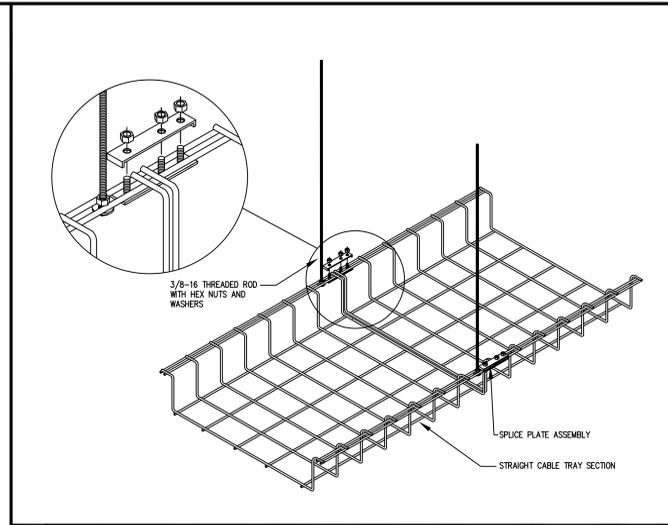
A DATA CENTER OVERHEAD SYSTEMS COORDINATION DETAIL N.T.S.



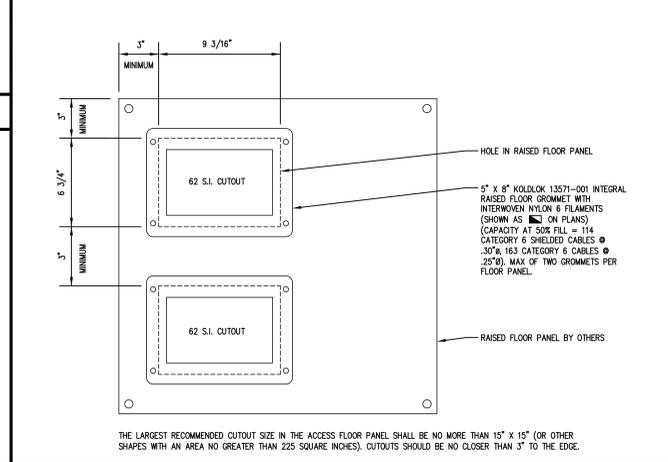
E FIBER BACKBONE RISER DIAGRAM (SEE SHEET TC19 FOR CABLE ROUTING WITHIN THE DATA CENTER) N.T.S.



M COPPER BACKBONE RISER DIAGRAM (SEE SHEET TC19 FOR CABLE ROUTING WITHIN THE DATA CENTER) N.T.S.



B CABLE TRAY SIDE SUPPORT DETAIL N.T.S.



C RAISED FLOOR GROMMET INSTALLATION DETAIL N.T.S.



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CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



Clemons, Rutherford & Associates Inc.

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Planners
Interior Designers
Construction Managers
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Tallahassee, Florida 32308
(850) 385-6153
Fax (850) 386-8420
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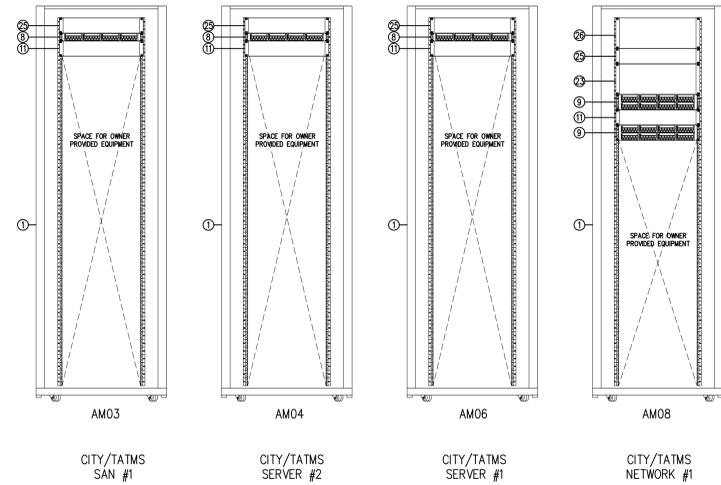
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L.F.C.	01/11/12	JRW	JRW

REVISIONS	
DATE	COMMENTS

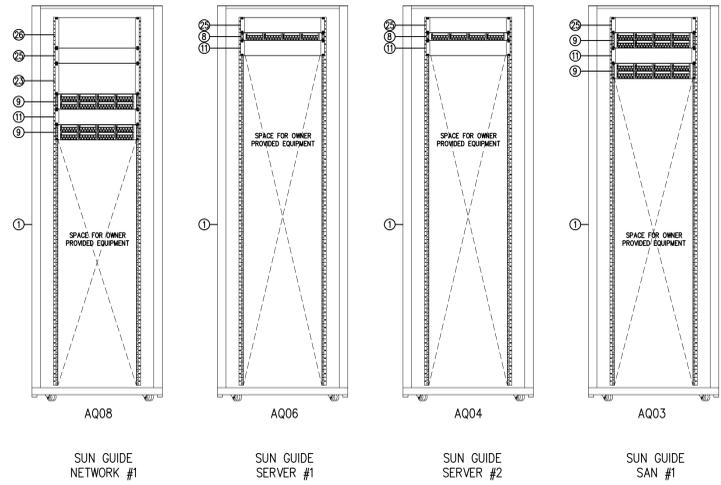
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SHEET TITLE
DETAILS AND RISERS - TELECOMMUNICATIONS

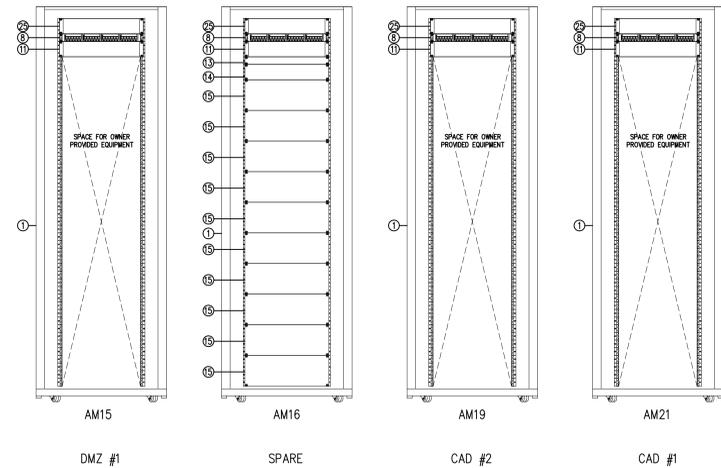
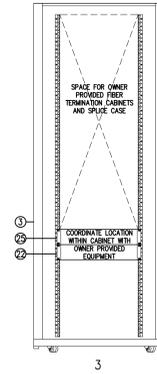
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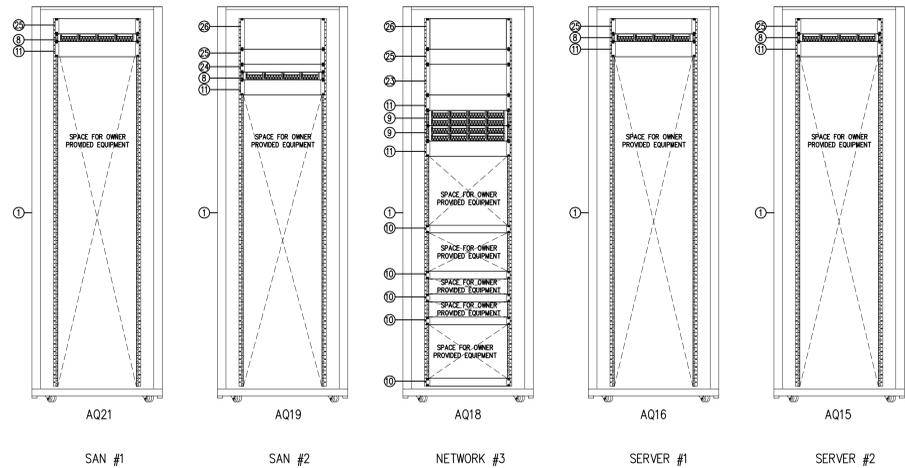
SOUTH
REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC)



NORTH
REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC)



SOUTH
CITY OF TALLAHASSEE



NORTH
CITY OF TALLAHASSEE

EQUIPMENT CABINET LAYOUTS

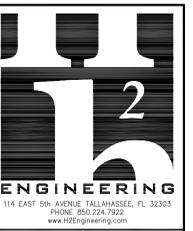
SCALE: 3/4"=1'-0"

NOTE: ARRANGEMENT OF EQUIPMENT SHOWN IS SUBJECT TO VARIATION. COORDINATE WITH OWNER AND OTHER TRADES.

EQUIPMENT LEGEND:	
① OWNER PROVIDED AND INSTALLED 30" x 42" x 48 RMU SERVER CABINET	⑩ 1 RMU HORIZONTAL WIRE MANAGER
② OWNER PROVIDED AND INSTALLED 30" x 48" x 48 RMU SERVER CABINET	⑪ 2 RMU HORIZONTAL WIRE MANAGER
③ OWNER PROVIDED AND INSTALLED 30" x 42" x 42 RMU SERVER CABINET	⑫ OWNER PROVIDED 1 RMU BLANK FILLER PLATE
④ 19" x 7" x 45 RMU 2-POST FLOOR MOUNT EQUIPMENT RACK	⑬ OWNER PROVIDED 2 RMU BLANK FILLER PLATE
⑤ 19" x 30" x 7" x 45 RMU 4-POST FLOOR MOUNT EQUIPMENT RACK	⑭ OWNER PROVIDED 4 RMU BLANK FILLER PLATE
⑥ 24 PORT CATEGORY 6 PATCH PANEL	⑮ CHATSWORTH ACTIVE RAISED FLOOR ENCLOSURE (5 RMU FOR PATCH PANELS AND 2 RMU FOR OWNER PROVIDED SWITCHES)
⑦ 48 PORT CATEGORY 6 PATCH PANEL	⑯ SINGLE SIDED VERTICAL WIRE MANAGER (6"x9"x84")
⑧ 24 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	⑰ SINGLE SIDED VERTICAL WIRE MANAGER (6"x9"x84")
⑨ 48 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	⑱ DOUBLE SIDED VERTICAL WIRE MANAGER (6"x18"x84")
	⑲ DOUBLE SIDED VERTICAL WIRE MANAGER (6"x18"x84")
	⑳ DOUBLE SIDED VERTICAL WIRE MANAGER (12"x18"x84")
	㉑ CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EDH-1M12-04-890 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	㉒ CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EDH-1M12-04-890 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	㉓ CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EDH-1M12-05-931 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	㉔ CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EDH-1M12-05-931 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	㉕ CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EDH-1M12-05-931 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	㉖ CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EDH-1M12-05-931 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	㉗ 1 RMU ANGLED BLANK FILLER PLATE
	㉘ 2 RMU ANGLED BLANK FILLER PLATE
	㉙ 1 RMU ANGLED RACK MOUNT POWER STRIP BY OWNER
	㉚ CORNING 1 RJ FIBER CLOSET CONNECTOR HOUSING CCH-01U W/ CCH-CP24-E4 LC DUPLEX MULTIMODE CLOSET CONNECTOR HOUSING PANELS. PROVIDE BLANKS IN OPEN PORTS.

NOTES:

- ALL FIBER CABLES TO BE PRE-TERMINATED USING MTP CONNECTORS UNLESS OTHERWISE NOTED.
- IN ADDITION TO THOSE SHOWN OWNER SHALL PROVIDE 1, 2 AND 4 RMU BLANK FILLER PLATES FOR OWNER INSTALLATION IN DATA CENTER CABINETS. ALL EMPTY RACK SPACES IN DATA CENTER CABINET FRONT RAILS MUST BE BLANKED OFF. (PANOUT BLANKING SHADE MODEL FUSION-Y MAY BE USED IN LIEU OF MULTIPLE INDIVIDUAL BLANKING PLATES IN EMPTY CABINETS OR WHERE LARGE OPENINGS OCCUR BETWEEN EQUIPMENT).
- EQUIPMENT LISTED IN THIS LEGEND IS NOT MEANT TO INDICATE THAT THE SPECIFIC EQUIPMENT IS REQUIRED IN RACKS OR CABINETS SHOWN ON THIS SHEET. (SEE THE OTHER RACK AND CABINET LAYOUT SHEETS FOR REQUIRED EQUIPMENT).
- VERIFY FINAL LOCATION OF EQUIPMENT AND BLANK PANELS WITHIN RACKS AND CABINETS WITH THE OWNER AND COORDINATE WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.



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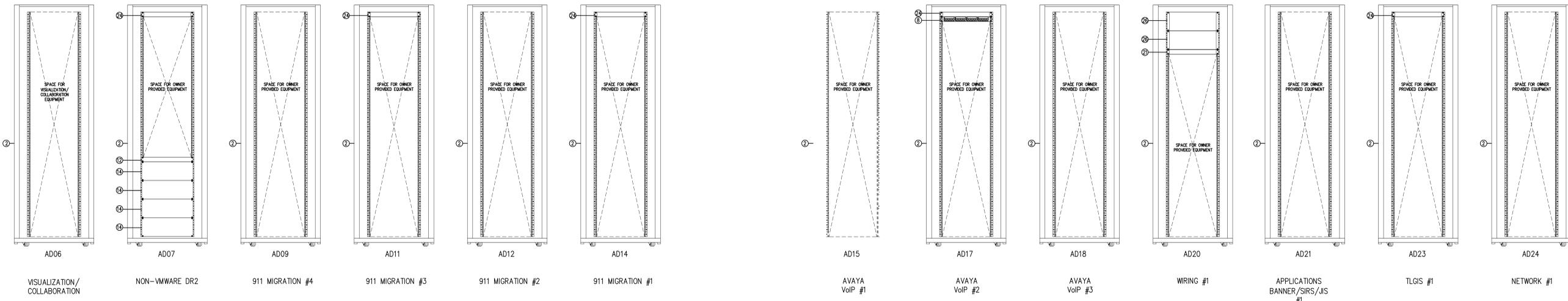
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#	DATE COMMENTS

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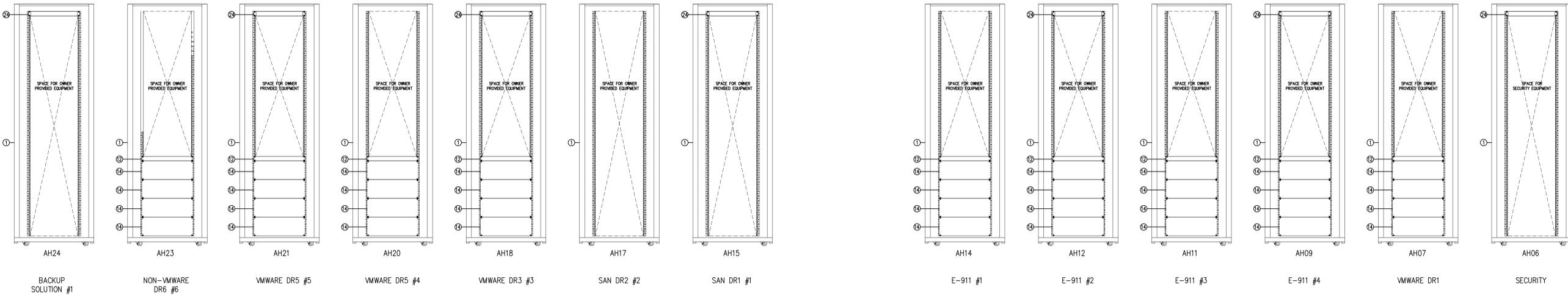
SHEET TITLE
EQUIPMENT CABINET LAYOUTS - TELECOMMUNICATIONS

TC7.1



SOUTH
LEON COUNTY SHERIFF'S OFFICE (LCSO)

SOUTH
LEON COUNTY



NORTH
LEON COUNTY

NORTH
LEON COUNTY SHERIFF'S OFFICE (LCSO)

EQUIPMENT CABINET LAYOUTS

SCALE: 3/4"=1'-0"

NOTE: ARRANGEMENT OF EQUIPMENT SHOWN IS SUBJECT TO VARIATION. COORDINATE WITH OWNER AND OTHER TRADES.

EQUIPMENT LEGEND:			
① OWNER PROVIDED AND INSTALLED 30" x 42" x 48 RMU SERVER CABINET	⑩ 1 RMU HORIZONTAL WIRE MANAGER	⑳ DOUBLE SIDED VERTICAL WIRE MANAGER (12" x 18"x84")	⑳ CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EQM-1M12-05-93T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
② OWNER PROVIDED AND INSTALLED 30" x 48" x 48 RMU SERVER CABINET	⑪ 2 RMU HORIZONTAL WIRE MANAGER	㉑ CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EQM-1M12-04-89G 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER	㉒ CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EQM-1M12-05-93T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
③ OWNER PROVIDED AND INSTALLED 30" x 42" x 42 RMU SERVER CABINET	⑫ OWNER PROVIDED 1 RMU BLANK FILLER PLATE	㉒ CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EQM-1M12-04-89G 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER	㉓ 1 RMU ANGLED BLANK FILLER PLATE
④ 19" x 7" x 45 RMU 2-POST FLOOR MOUNT EQUIPMENT RACK	⑬ OWNER PROVIDED 2 RMU BLANK FILLER PLATE	㉓ CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EQM-1M12-04-89G 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER	㉔ 2 RMU ANGLED BLANK FILLER PLATE
⑤ 19" x 30" x 7" x 45 RMU 4-POST FLOOR MOUNT EQUIPMENT RACK	⑭ OWNER PROVIDED 4 RMU BLANK FILLER PLATE	㉔ CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EQM-1M12-05-93T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER	㉕ 1 RMU HORIZONTAL RACK MOUNT POWER STRIP BY OWNER
⑥ 24 PORT CATEGORY 6 PATCH PANEL	⑮ CHATSWORTH ACTIVE RAISED FLOOR ENCLOSURE (5 RMU F02 PATCH PANELS AND 2 RMU FOR OWNER PROVIDED SWITCHES)	㉕ CORNING 1 RU FIBER CLOSET CONNECTOR HOUSING CCH-01U W/ CCH-0P24-E4 LC DUPLEX MULTIMODE CLOSET CONNECTOR HOUSING PANELS. PROVIDE BLANKS IN OPEN PORTS.	
⑦ 48 PORT CATEGORY 6 PATCH PANEL	⑯ SINGLE SIDED VERTICAL WIRE MANAGER (6"x9"x84")		
⑧ 24 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	⑰ SINGLE SIDED VERTICAL WIRE MANAGER (6"x9"x84")		
⑨ 48 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	⑱ DOUBLE SIDED VERTICAL WIRE MANAGER (6"x16"x84")		
	⑲ DOUBLE SIDED VERTICAL WIRE MANAGER (6"x16"x84")		

- NOTES:
- ALL FIBER CABLES TO BE PRE-TERMINATED USING MTP CONNECTORS UNLESS OTHERWISE NOTED.
 - IN ADDITION TO THOSE SHOWN OWNER SHALL PROVIDE 1, 2 AND 4 RMU BLANK FILLER PLATES FOR OWNER INSTALLATION IN DATA CENTER CABINETS. ALL EMPTY RACK SPACES IN DATA CENTER CABINET FRONT RAILS MUST BE BLANKED OFF. (PANDOUT BLANKING SHADE MODEL FLESH-Y MAY BE USED IN LIEU OF MULTIPLE INDIVIDUAL BLANKING PLATES IN EMPTY CABINETS OR WHERE LARGE OPENINGS OCCUR BETWEEN EQUIPMENT).
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 - VERIFY FINAL LOCATION OF EQUIPMENT AND BLANK PANELS WITHIN RACKS AND CABINETS WITH THE OWNER AND COORDINATE WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

CITY OF TALLAHASSEE AND LEON COUNTY

PUBLIC SAFETY COMPLEX

TELECOMMUNICATIONS PROJECT NO: 96016.02

TALLAHASSEE, FL.



Clemons, Rutherford & Associates Inc.

Architects
Interior Designers
Construction Managers

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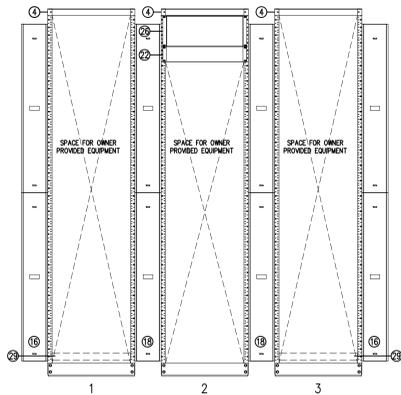
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PERMIT SET	03/25/11	JRM	JRM
PERMIT 2	05/20/11	JRM	JRM
L.F.C.	01/11/12	JRM	JRM

REVISIONS	
#	DATE COMMENTS

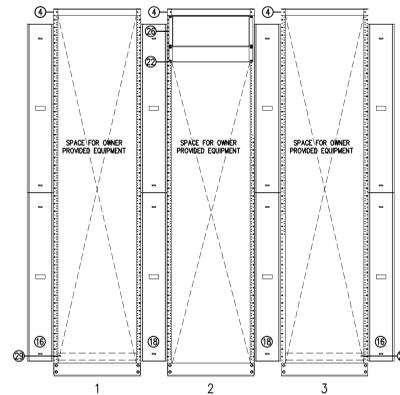
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EQUIPMENT CABINET LAYOUTS - TELECOMMUNICATIONS

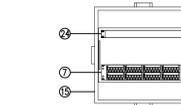
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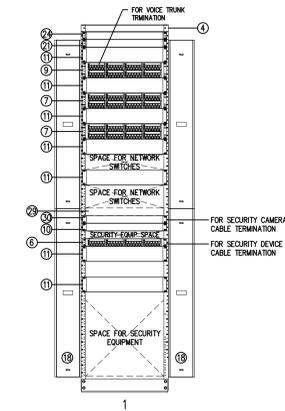
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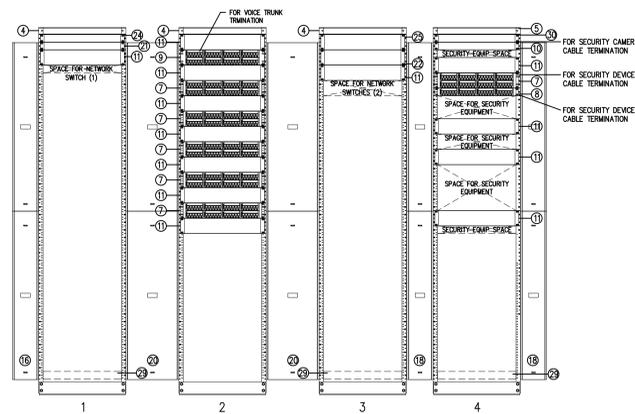
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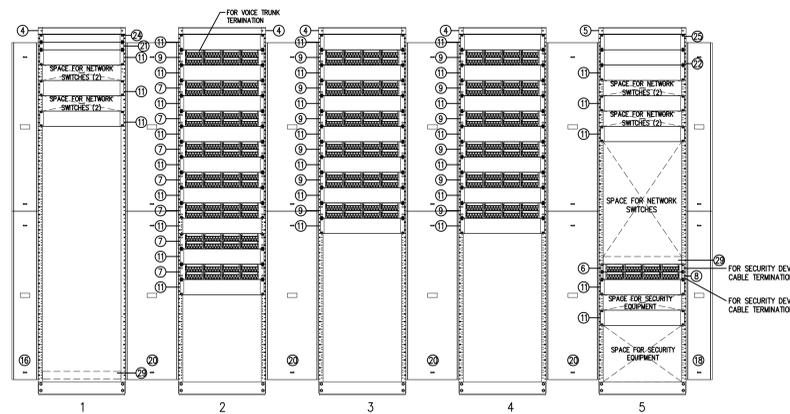
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EQUIP ROOM ERIA



TELECOM ROOM TR1C



TELECOM ROOM TR2A

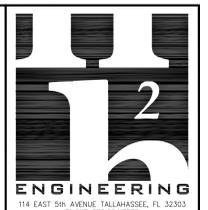
EQUIPMENT RACK LAYOUTS

SCALE: 3/4"=1'-0"

NOTE: ARRANGEMENT OF EQUIPMENT SHOWN IS SUBJECT TO VARIATION. COORDINATE WITH OWNER AND OTHER TRADES.

EQUIPMENT LEGEND:	
1 OWNER PROVIDED AND INSTALLED 30" x 42" x 48 RMU SERVER CABINET	10 1 RMU HORIZONTAL WIRE MANAGER
2 OWNER PROVIDED AND INSTALLED 30" x 48" x 48 RMU SERVER CABINET	11 2 RMU HORIZONTAL WIRE MANAGER
3 OWNER PROVIDED AND INSTALLED 30" x 42" x 42 RMU SERVER CABINET	12 OWNER PROVIDED 1 RMU BLANK FILLER PLATE
4 19" x 7" x 45 RMU 2-POST FLOOR MOUNT EQUIPMENT RACK	13 OWNER PROVIDED 2 RMU BLANK FILLER PLATE
5 19" x 30" x 7" x 45 RMU 4-POST FLOOR MOUNT EQUIPMENT RACK	14 OWNER PROVIDED 4 RMU BLANK FILLER PLATE
6 24 PORT CATEGORY 6 PATCH PANEL	15 CHATSWORTH ACTIVE RAISED FLOOR ENCLOSURE (5 RMU FOR PATCH PANELS AND 2 RMU FOR OWNER PROVIDED SWITCHES)
7 48 PORT CATEGORY 6 PATCH PANEL	16 SINGLE SIDED VERTICAL WIRE MANAGER (6"x 9"x84")
8 24 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	17 SINGLE SIDED VERTICAL WIRE MANAGER (6"x 9"x84")
9 48 PORT CATEGORY 6 PATCH PANEL WITH SHIELDED JACKS	18 DOUBLE SIDED VERTICAL WIRE MANAGER (6"x 18"x84")
	19 DOUBLE SIDED VERTICAL WIRE MANAGER (6"x 18"x84")
	20 DOUBLE SIDED VERTICAL WIRE MANAGER (12"x 18"x84")
	21 CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EOM-1M12-05-83T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	22 CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EOM-1M12-04-890 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	23 CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EOM-1M12-04-890 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH SINGLE MODE FIBER
	24 CORNING EDGE-01U EDGE SOLUTIONS HOUSING WITH EOM-1M12-05-83T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	25 CORNING EDGE-02U EDGE SOLUTIONS HOUSING WITH EOM-1M12-05-83T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	26 CORNING EDGE-04U EDGE SOLUTIONS HOUSING WITH EOM-1M12-05-83T 12-FIBER EDGE SOLUTIONS MODULE(S), SHUTTERED DUPLEX LC TO MTP WITH CLEARCURVE OM3 MULTIMODE FIBER
	27 1 RMU ANGLED BLANK FILLER PLATE
	28 2 RMU ANGLED BLANK FILLER PLATE
	29 1 RMU HORIZONTAL RACK MOUNT POWER STRIP BY OWNER
	30 CORNING 1 RU FIBER CLOSET CONNECTOR HOUSING CCH-01U W/ CCH-CP24-E4 LC DUPLEX MULTIMODE CLOSET CONNECTOR HOUSING PANELS. PROVIDE BLANKS IN OPEN PORTS.

- NOTES:
- ALL FIBER CABLES TO BE PRE-TERMINATED USING MTP CONNECTORS UNLESS OTHERWISE NOTED.
 - IN ADDITION TO THOSE SHOWN OWNER SHALL PROVIDE 1, 2 AND 4 RMU BLANK FILLER PLATES FOR OWNER INSTALLATION IN DATA CENTER CABINETS; ALL EMPTY RACK SPACES IN DATA CENTER CABINET FRONT RAILS MUST BE BLANKED OFF. (PANOUT BLANKING SHADE MODEL T150M-Y MAY BE USED IN LIEU OF MULTIPLE INDIVIDUAL BLANKING PLATES IN EMPTY CABINETS OR WHERE LARGE OPENINGS OCCUR BETWEEN EQUIPMENT).
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TALLAHASSEE, FL.



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Interior Designers
Construction Managers

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SUBMITTAL			
PHASE	DATE	DRAWN	CHECK
A.S.-FINAL	06/07/10	JRW	JRW
DES. DEV.	09/30/10	JRW	JRW
BOOK CDS	01/15/11	JRW	JRW
PERMIT SET	03/25/11	JRW	JRW
PERMIT 2	07/30/11	JRW	JRW
L.F.C.	01/11/12	JRW	JRW

REVISIONS	
#	DATE COMMENTS

PROJ. NO. 09012
PHASE: CONSTRUCTION DOCUMENTS

SHEET TITLE
EQUIPMENT RACK LAYOUTS - TELECOMMUNICATIONS

TC7.3