TECHNOLOGY ABBREVIATIONS AND ACRONYMS

AC ABOVE COUNTER (IN CONTEXT OF DEVICE MOUNTING)
ACS ACCESS CONTROL SYSTEM
ACU ACCESS CONTROL UNIT
ACT ACTUATOR (AUTO DOOR OPERATOR)
ADA AMERICANS WITH DISABILITY ACT
AFF ABOVE FINISH FLOOR
AFG ABOVE FINISH GRADE
AHJ AUTHORITY(IES) HAVING JURISDICTION
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
ANT ANTENNA/ANTENNAE
AOR AREA OF RESCUE
APB ANTI PASS-BACK
A/R AS REQUIRED
ATC ACOUSTICAL TILE CEILING
ATS AUTOMATIC TRANSFER SWITCH
AV AUDIOVISUAL
AVIXA® AUDIOVISUAL AND INTEGRATED EXPERIENCE ASSOCIATION
AWG AMERICAN WIRE GAUGE

BAS BUILDING AUTOMATION SYSTEM
BFG BELOW FINISH GRADE
BICSI® BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL
BMS BUILDING MANAGEMENT SYSTEM

C CONDUCTOR
CAM CAMERA
CAT CATEGORY
CATV CABLE TV
CCTV CLOSED-CIRCUIT TELEVISION
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI CONTRACTOR FURNISHED, OWNER INSTALLED
CH CHANNEL
CL CENTER LINE
CLG CEILING
C/O CONSISTING OF
CR CREDENTIAL (CARD) READER
CRAC COMPUTER ROOM AIR CONDITIONER
CRAH COMPUTER ROOM AIR HANDLER
CTRL CONTROL

DAS DISTRIBUTED ANTENNA SYSTEM
DB DECIBEL
DURESS BUTTON
DBL DOUBLE
DCDC ® DATA CENTER DESIGN CONSULTANT
DHC DOOR HARDWARE CONTRACTOR
DIV DIVISION
DPS DOOR POSITION SWITCH

EC ELECTRICAL CONTRACTOR
ENCL ENCLOSED(URE)
EIA® ELECTRONICS INDUSTRY ASSOCIATION
ELEV ELEVATION
EMI ELECTRO-MAGNETIC INTERFERENCE
ER EQUIPMENT ROOM
ERRCS EMERGENCY RESPONSE RADIO COMMUNICATION SYSTEM
EX EXISTING
EXT EXTERIOR

FO FIBER OPTIC
FOV FIELD OF VIEW
FPS FRAMES PER SECOND
FTP FOIL-TWISTED PAIR
F/UTP FOIL SCREENED, UNSHIELDED TWISTED PAIR

GA GAUGE (EXCEPT IN CONTEXT OF US STATE)
GC GENERAL CONTRACTOR
GND GROUND

HH HAND HOLE
HDWE HARDWARE

I/O INDOOR/OUTDOOR
INPUT/OUTPUT
IAW IN ACCORDANCE WITH
IBC® INTERNATIONAL BUILDING CODE
IDS INTRUSION DETECTION SYSTEM
IEEE® INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
INT INTEGRATE/INTEGRATED
INTERIOR
ISP INSIDE PLANT

K KELVIN
ONE THOUSAND
KSO KEY(ED) SWITCH OVERRIDE
KVM KEYBOARD, VIDEO, MOUSE

LPR LICENSE PLATE RECOGNITION

MAG MAGNETIC (DOOR LOCKING HARDWARE)
MM MILLIMETER
MULTI-MODE (FIBER)

NIC NETWORK INTERFACE CARD
NOT IN CONTRACT
NEC® NATIONAL ELECTRIC CODE
NFPA® NATIONAL FIRE PROTECTION ASSOCIATION

OAS OVERALL SHIELD(ED)
OC ON CENTER
OFE OWNER FURNISHED EQUIPMENT
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI OWNER FURNISHED, OWNER INSTALLED
O/H OVERHEAD
OSP OUTSIDE PLANT

PA PUBLIC ADDRESS
PB PANIC BUTTON
PULL BOX
PBB PRIMARY BONDING BUS BAR
PED PEDESTAL
PIR PASSIVE INFRARED
PNL PANEL
POS POSITION
PPF PIXELS PER FOOT
PR PAIR

RCDD ® REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RCVR RECEIVER
RDR READER
REC RECEIVE
REX REQUEST-TO-EXIT
RIO ROUGH-IN ONLY
RTE REQUEST-TO-EXIT
RU RACK UNIT
RX RECEIVE(R)

SBB SECONDARY BONDING BUSBAR
SCS STRUCTURED CABLING SYSTEM
SCTP SCREENED-TWISTED PAIR
S/FTP SHIELDED, FOILED TWISTED PAIR
SFF SMALL FORM-FACTOR
SM SINGLE MODE (FIBER)
SPD SURGE PROTECTION DEVICE
STP SHIELDED-TWISTED PAIR
STR STRANDED (CABLE CONDUCTORS)

TIA® TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR TELECOMMUNICATIONS ROOM
TYP TYPICAL
TX TRANSMIT(TER)

UON UNLESS OTHERWISE NOTED

VMS VIDEO MANAGEMENT SYSTEM/SOFTWARE
VOL VOLUME
VSS VIDEO SURVEILLANCE SYSTEM

W WALL (IN CONTEXT OF DEVICE MOUNTING)
WATT
WAP WIRELESS ACCESS POINT (RADIO)

STRUCTURED CABLE LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
W	WALL MOUNT TELEPHONE OUTLET	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46" A.F.F.
N	DATA OUTLET N= NUMBER OF CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	18" A.F.F.
N	COUNTER HEIGHT DATA OUTLET N= NUMBER OF CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	6" ABOVE COUNTER
N	WIRELESS ACCESS POINT N= NUMBER OF CABLES	SINGLE PORT SURFACE MOUNT BOX	CEILING
TV	CATV LOCATION = (1) RG6 QUAD SHIELD COAX + (1) CAT 6 CABLE)	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	60" A.F.F.
N	DATA FLOOR BOX OUTLET N= NUMBER OF CABLES *	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	CEILING
AV	AUDIO / VISUAL OUTLET	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	FLOOR
	TECHNOLOGY CEILING OUTLET N= NUMBER OF CABLES	SINGLE PORT SURFACE MOUNT BOX	CEILING
CM	6' X 7' X 12' COMMUNICATIONS VAULT		

* - CONTRACTOR SHALL LEAVE 25' SLACK CABLE IN CEILING FOR RELOCATION OF CABLE.

TELECOMMUNICATIONS PATHWAY LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LADDER RACK - SEE DETAILS DENOTED ON T9 SHEETS	ABOVE RACKS
J J J	J- HOOK PATHWAY - SPACE J-HOOKS AT INTERVALS NO GREATER THAN 5'	ABOVE CEILING
	BASKET TYPE TRAY - SEE DETAILS DENOTED ON T9 SHEETS	SEE T9 SHEETS
	HILTI SPEED SLEEVE PART NUMBER CP 653 2" / CP 653 4" OR APPROVED EQUAL	ABOVE CEILING
	CONDUIT PATHWAY - SEE NOTES FOR DETAILS	

GENERAL NOTES:

A. TECHNOLOGY DRAWINGS ARE INTENDED TO DEPICT PATHWAY INFRASTRUCTURE AND ROUGH-IN REQUIREMENTS ONLY. CABLING AND ASSOCIATED SYSTEM COMPONENTS FOR NETWORK, SCADA, BUILDING MANAGEMENT SYSTEMS (BMS), CONTROLS, AND OTHER SYSTEMS NOT SPECIFICALLY IDENTIFIED AS PART OF THE SECURITY SCOPE ARE BY OTHERS. FINAL SYSTEM ARCHITECTURE, CABLING REQUIREMENTS, AND CONNECTION METHODS SHALL BE DETERMINED DURING FUTURE OWNER/END-USER COORDINATION.

B. THE GENERAL NOTES ON THIS SHEET APPLY TO ALL THE "T" SERIES SHEETS. ALL NOTES IDENTIFIED ON THE DRAWINGS AS TYPICAL SHALL APPLY TO THE ENTIRE PROJECT, WHETHER OR NOT SPECIFICALLY IDENTIFIED ON EACH DRAWING.

C. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY.

D. OWNER FURNISHED EQUIPMENT INCLUDING NETWORK SWITCHES AND EQUIPMENT, TELEPHONE EQUIPMENT, WIRELESS ACCESS POINTS, TV'S, SMART BOARDS, PROJECTORS, AND AV EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OTHERS.

E. IF A CONFLICT EXISTS BETWEEN APPLICABLE DOCUMENTS, THE ARCHITECTURAL ELEVATIONS SHALL DRIVE ANY DEVICE HEIGHT AND LOCATION. ALL OUTLETS AND DEVICES SHALL BE COORDINATED WITH THE ADJACENT ELECTRICAL OUTLET.

F. PENETRATIONS SHALL BE PROVIDED/SEALED IN SUCH A MANNER TO BE U. L. RATED PENETRATION ASSEMBLIES WITH APPROVED FIRESTOP.

G. ALL LOW VOLTAGE DEVICE LOCATIONS, AS DEPICTED IN THE DRAWINGS, ARE DIAGRAMMATIC IN NATURE, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED. THE SYMBOLS INDICATE THE GENERAL ARRANGEMENT OF THE WORK. OUTLETS SHALL BE PLACED WITHIN 3' OF A POWER OUTLET AND ON THE SAME WALL.

H. ALL MOUNTING HEIGHTS PROVIDED IN THE LEGEND, SCHEDULES, PLANS, AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

I. CONTRACTOR SHALL CARRY AN ALLOWANCE FOR AN EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SITE SURVEY AND ERRC IMPLEMENTATION AFTER CONSTRUCTION AS MAY BE REQUIRED.

J. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND OWNER-VENDORS TO AVOID INTERFERENCES

K. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELECOMMUNICATION DRAWINGS PRIOR TO ROUGH-IN FOR EXACT LOCATION OF ALL COMMUNICATION DEVICES.

L. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR EXACT OR COORDINATED LOCATIONS OF EQUIPMENT.

M. CONTRACTOR SHALL INSTALL SLEEVES OF ADEQUATE SIZE AND QUANTITY. SLEEVES SHALL NOT EXCEED 40% FILL RATIOS. CONTRACTOR SHALL INSTALL ONE EMPTY SLEEVE OF EQUAL SIZE FOR FUTURE USE.

N. CONDUIT PATHWAYS SHOWN ARE DIAGRAMMATIC IN NATURE TO CAPTURE DESIGN INTENT. CONTRACTOR SHALL DETERMINE THE BEST ROUTE BETWEEN THE TWO POINTS.

O. ELECTRICAL CONTRACTOR SHALL INSTALL 1-1/4" CONDUIT FROM VOICE/ DATA FLOORBOX TO NEAREST ACCESSIBLE CEILING. CONDUIT SHALL BE CONCEALED IN FLOOR AND WALL AND SHALL STUB OUT ABOVE DROP CEILING.

P. ELECTRICAL CONTRACTOR SHALL COORDINATE CONDUIT ENTERING CASEWORK WITH ARCHITECTURAL ELEVATION DRAWINGS. CONDUIT SHALL ENTER CASEWORK FROM FLOOR AND VOICE/DATA OUTLET BOX SHALL MOUNT IN CASEWORK AND BE ACCESSIBLE. 1-1/4" CONDUIT SHALL ROUTE IN FLOOR TO NEAREST WALL AND ROUTE TO ACCESSIBLE CEILING.

Q. EACH TELECOMMUNICATION OUTLET SHALL CONSIST OF A STANDARD 4" SQUARE BOX WITH A SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING AT EACH END.

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SHEET TITLE

TECHNOLOGY - LEGEND & SCHEDULES

SHEET NUMBER
BLDG1-T001

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GENERAL NOTES:

A. THE MINIMUM SEPARATION BETWEEN DUCT BANKS SHALL BE 25FT.

B CARRIER ACCESS VAULTS SHALL BE 150M FROM OTHER CAVS.

C. SCHEDULE 40 PVC FOR CONDUITS.

D. FINAL SIZE OF VAULTS PENDING DETAILED DESIGN REVIEWS.

E. CAV LOCATED PER OPR WITH ACCESS TO CARRIER FIBER CORRIDORS. FINAL LOCATIONS TO BE COORDINATED WITH CARRIERS.

F. ABOVE-GRADE PRE-FAB "HUT" TO BE INSTALLED WHERE FEASIBLE BETWEEN CAVS AND DUCTBANK RINGS. LOCATION ON SITE TO BE COORDINATED WITH FINAL DUCTBANK DESIGN.

G. ENTRANCE FACILITIES ROOM TO BE SPACE PLANNED FOR LX HSX SUMITOMO SPLICE CABINET FOR EACH ENTERING CONDUIT.

H. OSP CABLE SHALL NOT BE LONGER THAN 50FT BEFORE TERMINATION ONCE IN THE BUILDING.

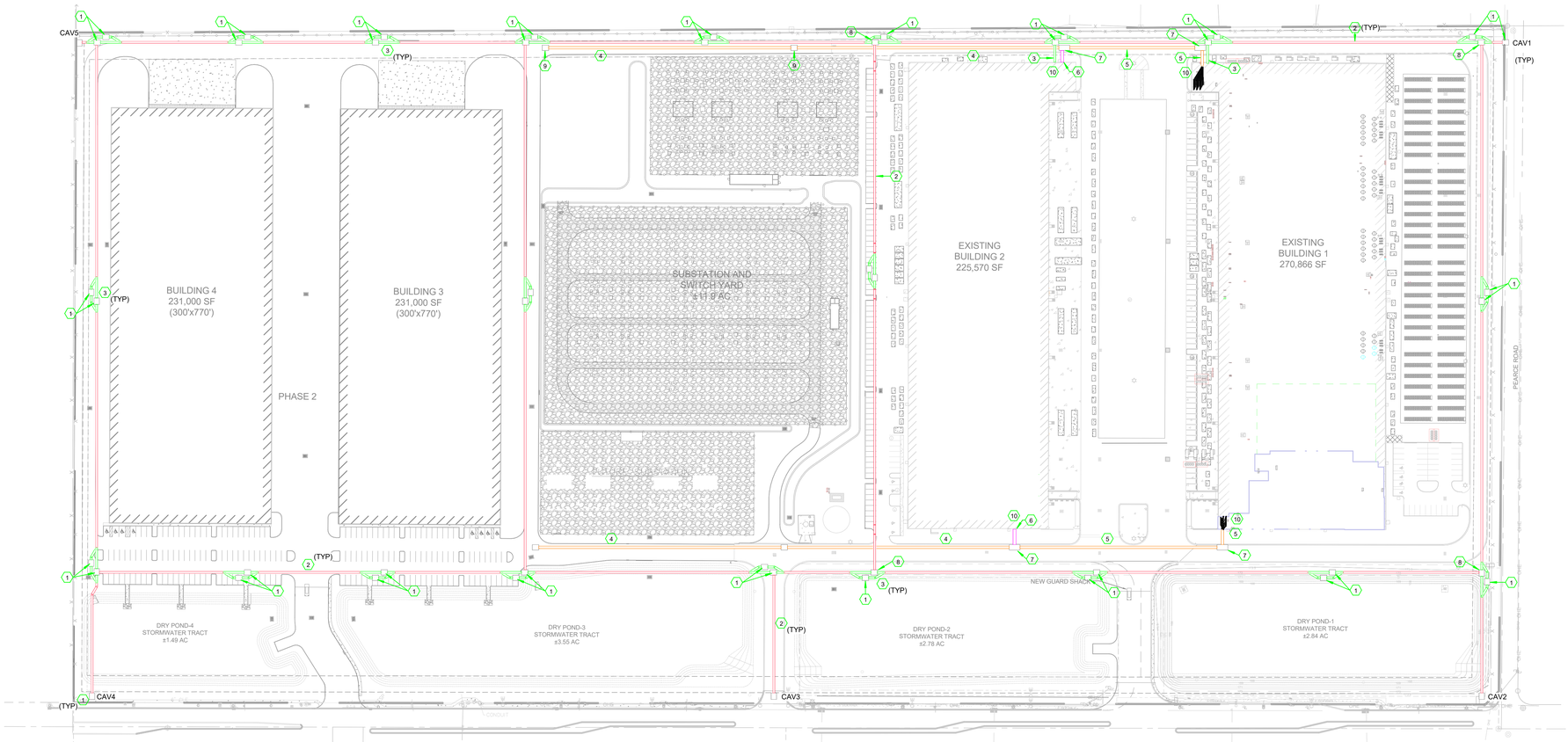
I. COMMUNICATION DUCT BANKS REQUIRE MINIMUM 36" OF COVER OR BELOW THE FROST LINE (WHICHEVER IS GREATER).

J. CONDUIT BENDS SHALL BE LIMITED TO 120° CUMULATIVE BETWEEN VAULTS AND 180° CUMULATIVE BETWEEN VAULT AND BUILDING. BACK TO BACK BENDS ARE NOT PERMITTED.

K. PROVIDE (3) 4" 3-CELL MAXCELL INNERDUCTS FOR 50% OF THE UNDERGROUND PATHWAYS. EXTEND MAXCELL A MINIMUM OF 6 LINEAR FEET INTO VAULTS AND BE SECURED FOR FUTURE CABLE INSTALLATION.

KEYED NOTES:

1. PROVIDE A 10 X 12' X 8' CARRIER ACCESS VAULT (CAV) WITH (1) 42" MIN. ACCESS LID.
2. UNDERGROUND DUCT BANK CONCRETE ENCASED, 24 x 4" CONDUITS.
3. UNDERGROUND DUCT BANK CONCRETE ENCASED, 12 x 4" CONDUITS.
4. UNDERGROUND DUCT BANK CONCRETE ENCASED, 40 x 4" CONDUITS.
5. UNDERGROUND DUCT BANK CONCRETE ENCASED, 56 x 4" CONDUITS.
6. UNDERGROUND DUCT BANK CONCRETE ENCASED, 74 x 4" CONDUITS.
7. PROVIDE A 10' X 20' X 8' BUILDING ENTRY VAULT (BEV) WITH (2) 42" MIN. ACCESS LIDS.
8. PROVIDE A 10' X 12' X 8' MEET ME VAULT (MMV) WITH (2) 42" MIN. ACCESS LIDS.
9. PROVIDE A 10' X 12' X 8' TELECOM MAINTENANCE VAULT (TMH) WITH (2) 42" MIN. ACCESS LID.
9. PROVIDE ALL NECESSARY RACKING AND CABLE ARMS WITHIN VAULTS FOR CABLE SLACK MANAGEMENT. VAULT HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL OR BE NON-METALLIC.
10. SEE ELEVATION SHEET FOR ENTRANCE FACILITY ROOM LAYOUT.



1 TECHNOLOGY - OVERALL SITE PLAN

SCALE: 1" = 100'-0"

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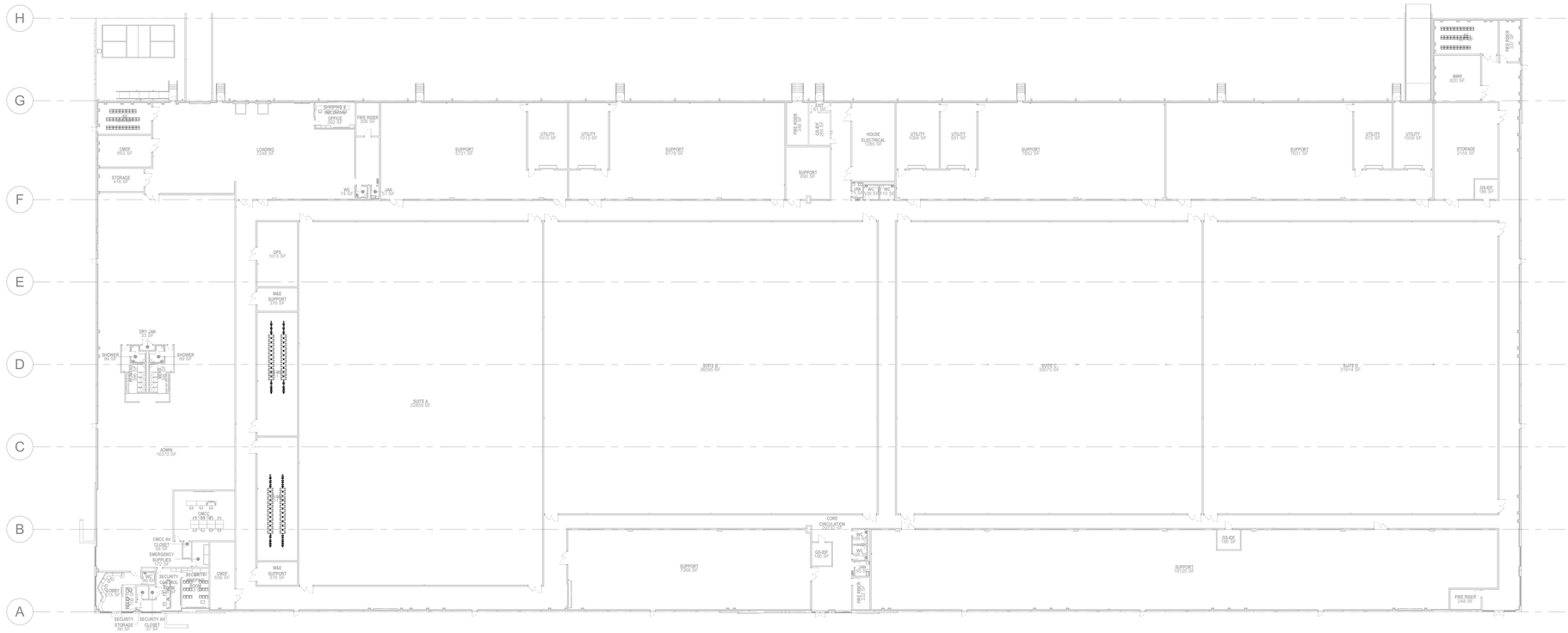
SHEET TITLE

TECHNOLOGY - OVERALL SITE PLAN

SHEET NUMBER

BLDG1-T002

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1 TECHNOLOGY - OVERALL PLAN
SCALE: 1/32" = 1'-0"

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SHEET TITLE

TECHNOLOGY - OVERALL PLAN

SHEET NUMBER
BLDG1-T100-A

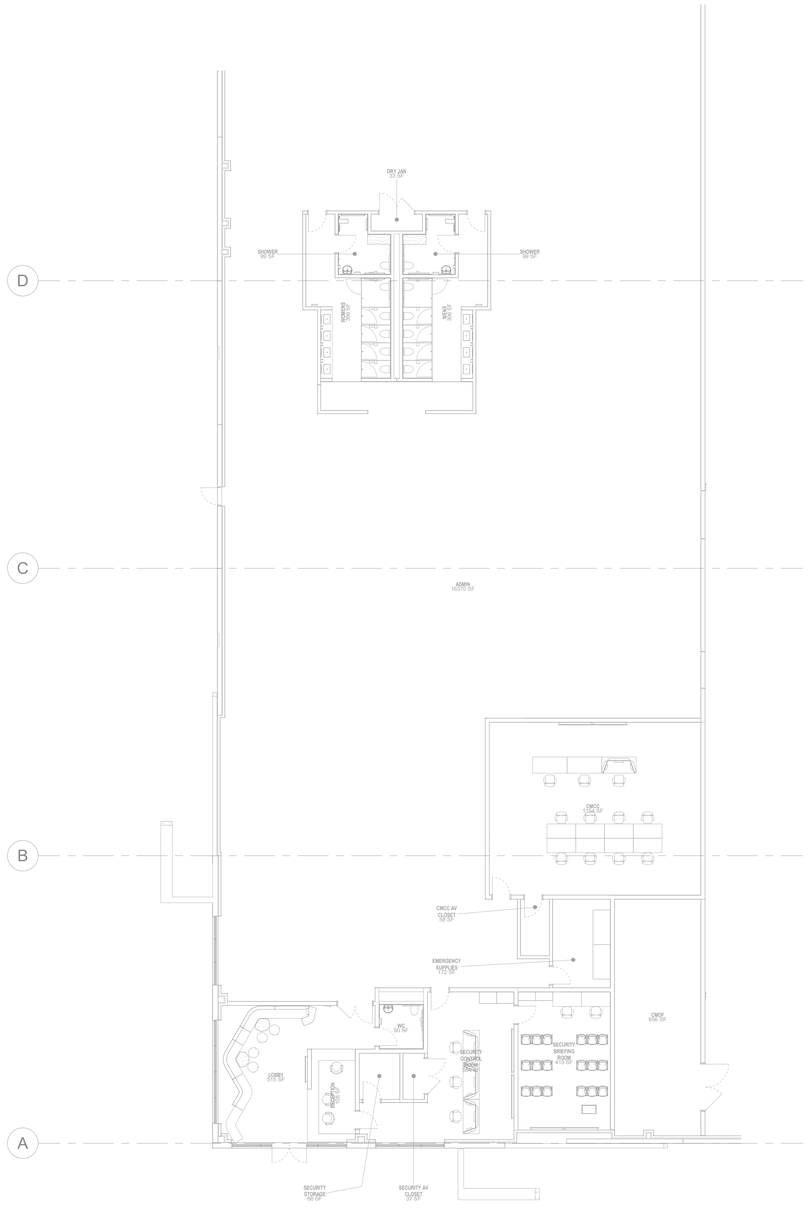
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KEYED NOTES:

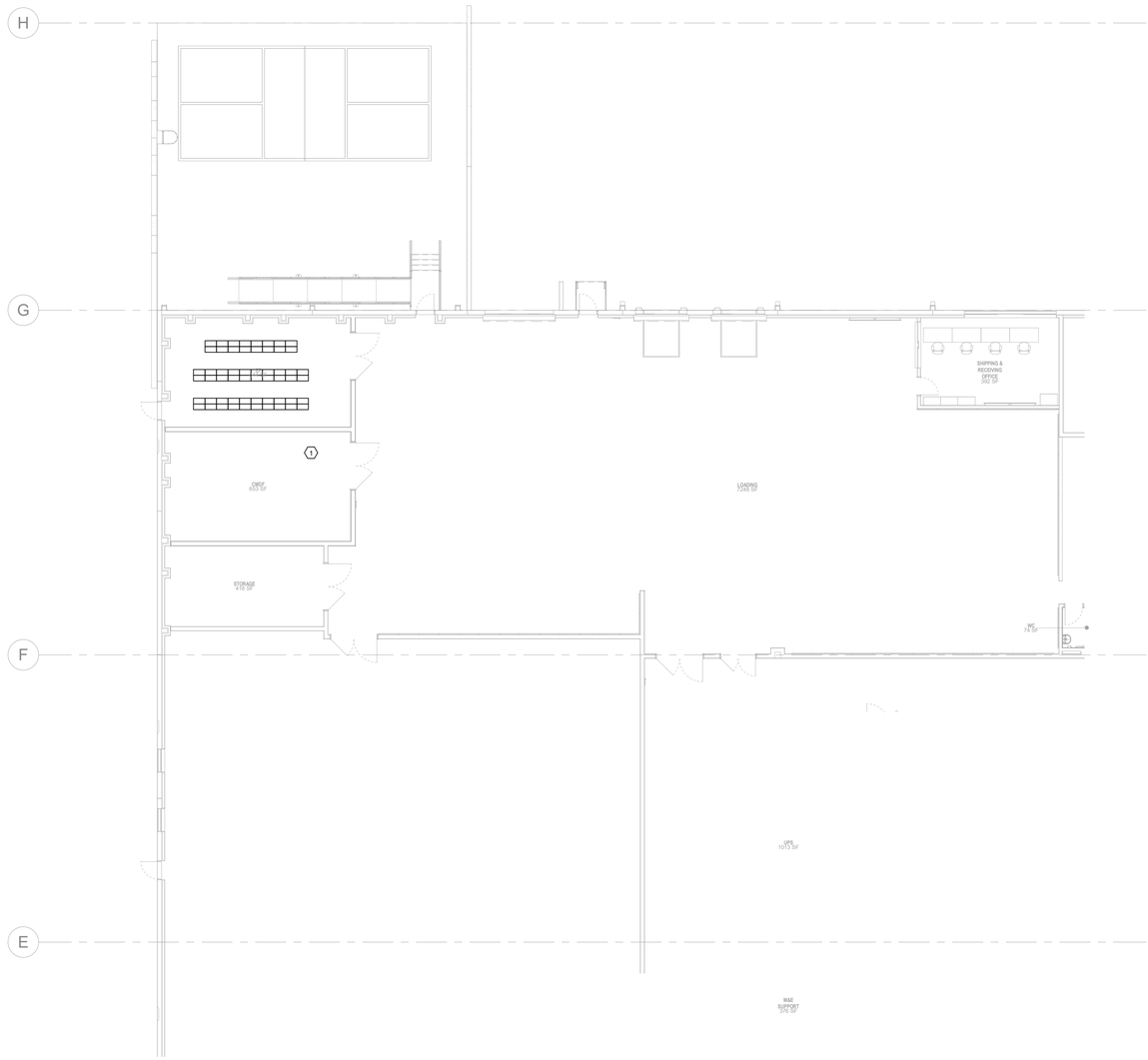
1. SEE SHEET T800 FOR SPACE LAYOUT DETAILS.

GENERAL NOTES:

A. RACKS ARE SHOWN FOR REFERENCE ONLY AND DO NOT REFLECT CURRENT DESIGN INTENT. ROOM LAYOUTS FOR TELECOM SPACES SHALL BE INCLUDED IN THE FIT-OUT PHASE.



1 ENLARGED PLAN - OFFICE AREA - TELECOM
SCALE: 3/32" = 1'-0"



2 ENLARGED PLAN - STORAGE AREA - TELECOM
SCALE: 3/32" = 1'-0"

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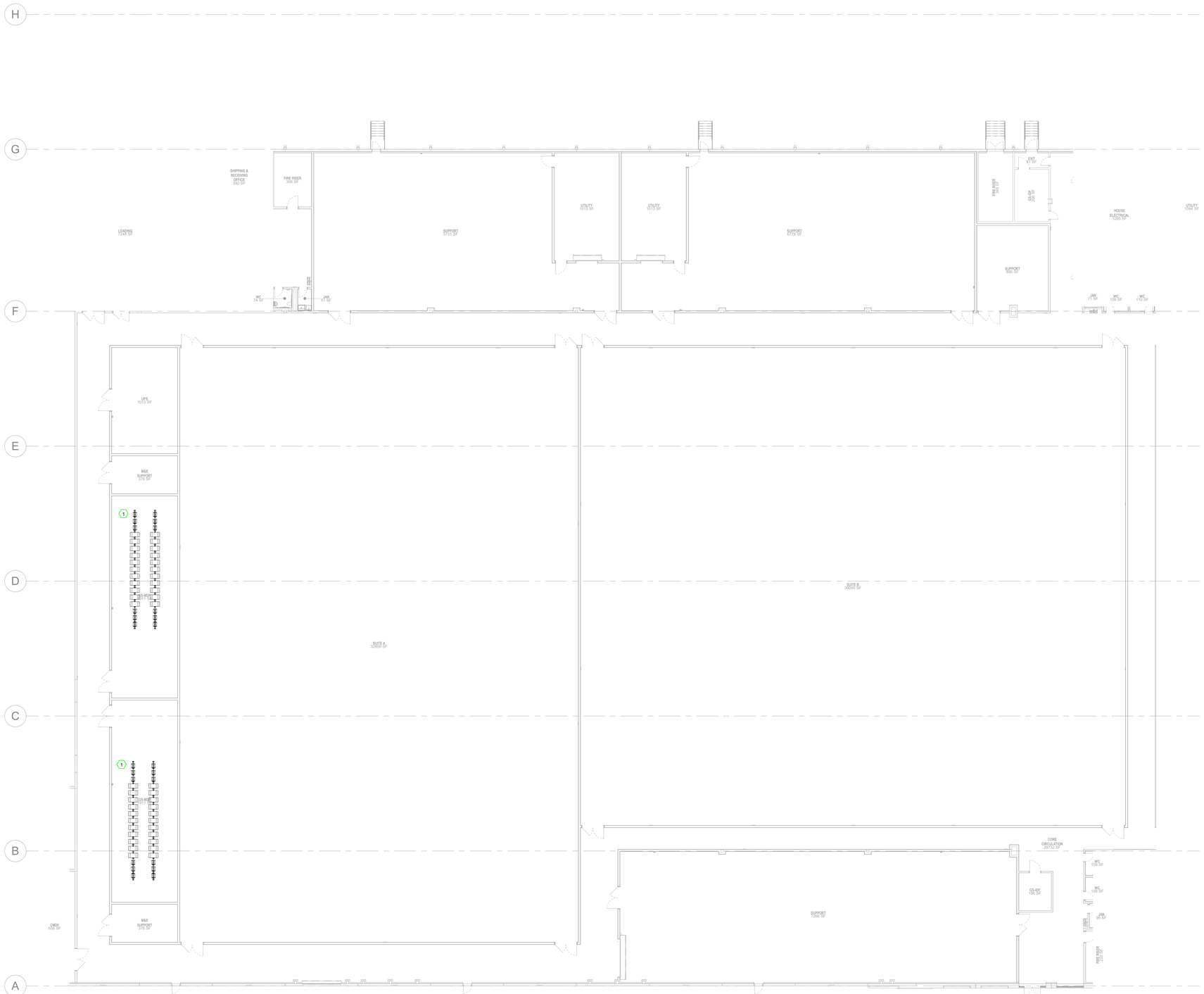
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SHEET TITLE

TECHNOLOGY - ENLARGED FLOOR PLAN - OFFICE & STORAGE AREA

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GENERAL NOTES:

A. RACKS ARE SHOWN FOR REFERENCE ONLY AND DO NOT REFLECT CURRENT DESIGN INTENT. ROOM LAYOUTS FOR TELECOM SPACES SHALL BE INCLUDED IN THE FIT-OUT PHASE.

KEYED NOTES:

1. PROVIDE (2) 4" CONDUITS FROM EACH GSMDF TO THE ROOF FOR DAS SYSTEM CABLING. COORDINATE EXACT ANTENNA PLACEMENT WITH OWNER PRIOR TO INSTALLATION.

1 ENLARGED PLAN - SUITE A & B - TELECOM
SCALE: 1/16" = 1'-0"

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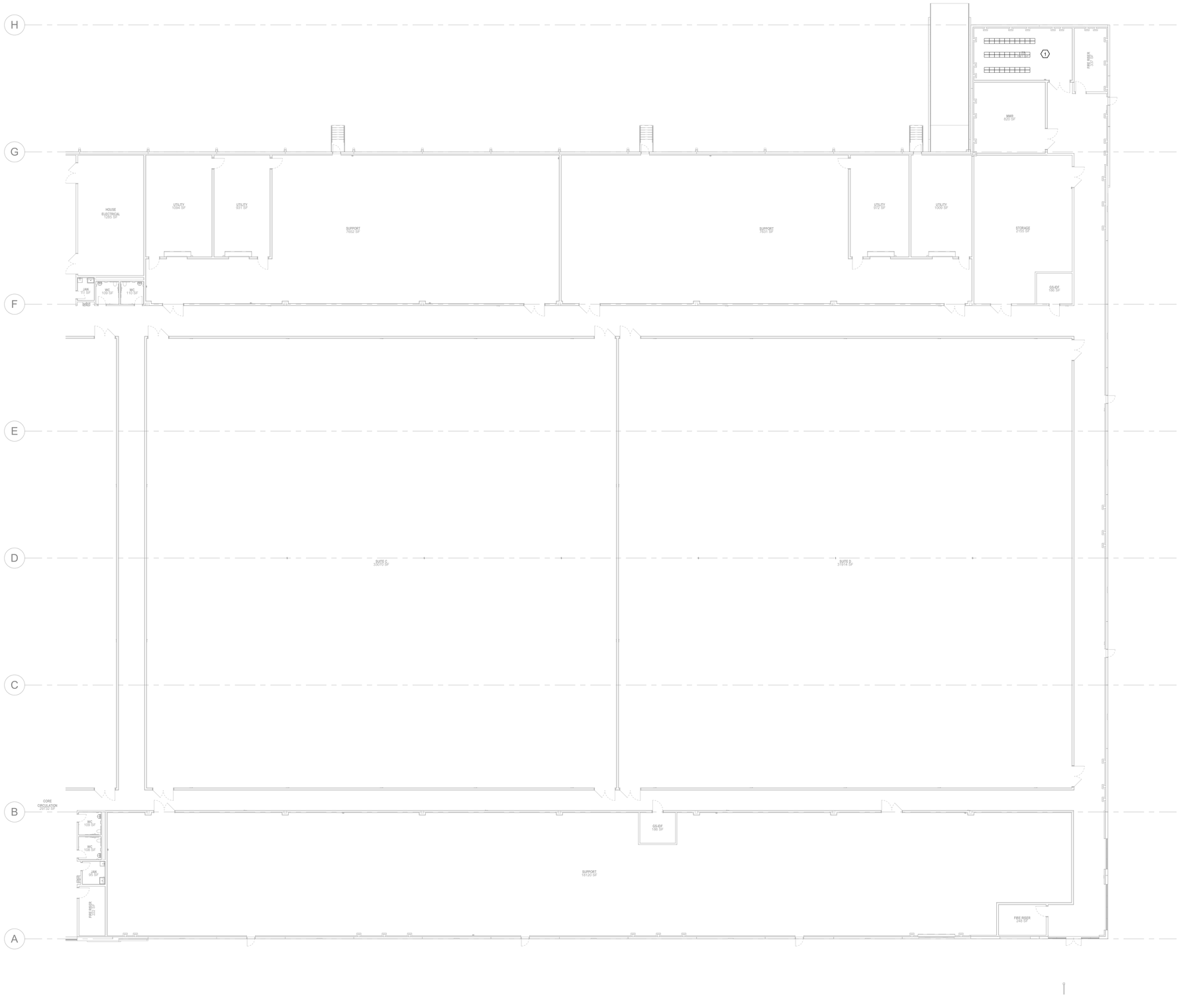
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TECHNOLOGY - ENLARGED FLOOR PLAN - SUITE A & B

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1 ENLARGED PLAN - SUITE C & D - TELECOM
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

A. RACKS ARE SHOWN FOR REFERENCE ONLY AND DO NOT REFLECT CURRENT DESIGN INTENT. ROOM LAYOUTS FOR TELECOM SPACES SHALL BE INCLUDED IN THE FIT-OUT PHASE.

KEYED NOTES: ⬡

1. SEE SHEET T800 FOR SPACE LAYOUT DETAILS.

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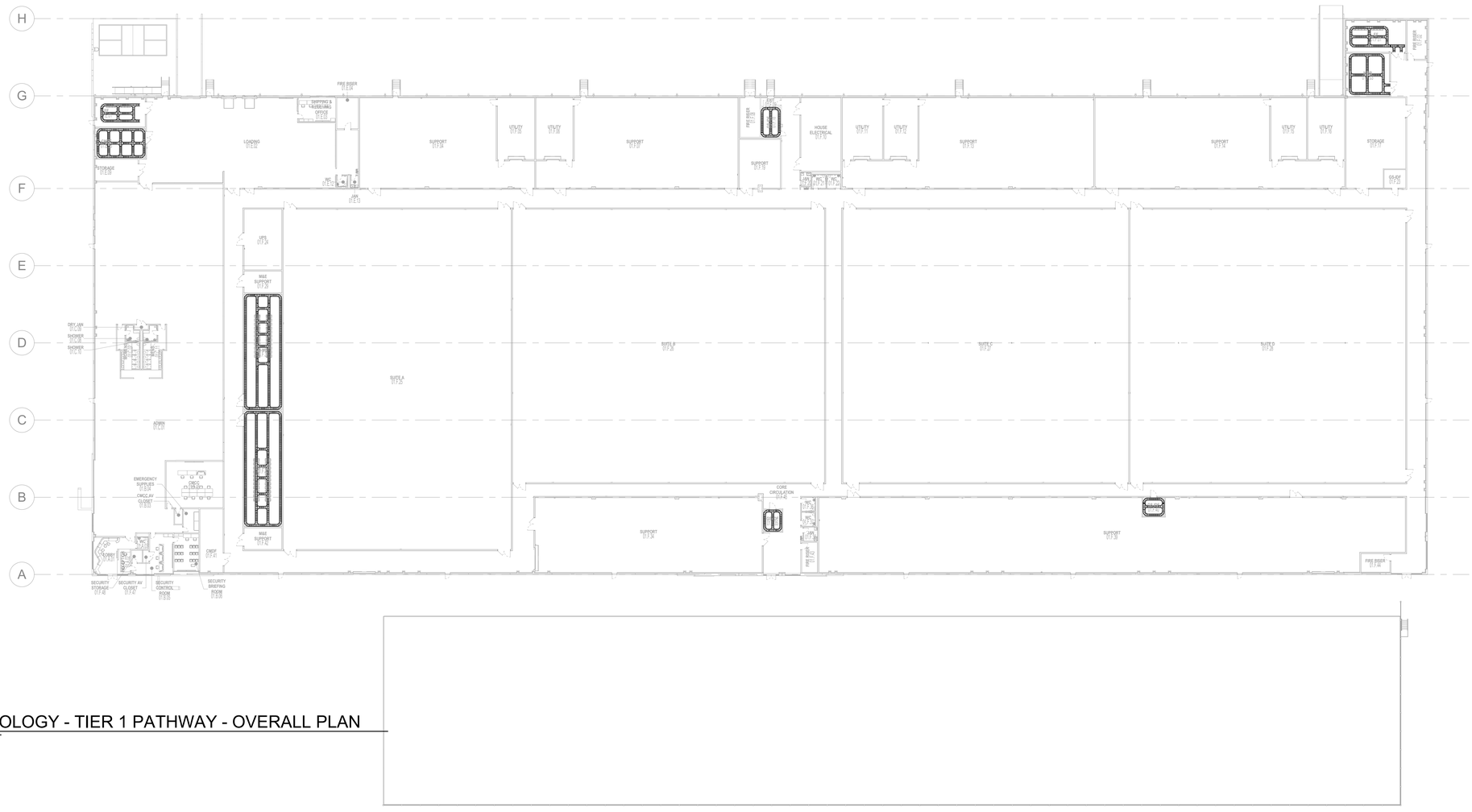
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SHEET TITLE

TECHNOLOGY - ENLARGED FLOOR PLAN - SUITE C & D

SHEET NUMBER
BLDG1-T103-A

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1 TECHNOLOGY - TIER 1 PATHWAY - OVERALL PLAN

SCALE: 1/32" = 1'-0"

GENERAL NOTES:

A. PROVIDE 18" LADDER TYPE CABLE TRAY AND ALL ASSOCIATED FITTINGS ABOVE ALL RACKS AND CABINETS IN ALL EF's, GSMDF's, GSIDF's, & NETWORK SUITE ROWS DESIGNATED FOR BACKBONE CABLE PATCHING. PROVIDE THREE (3) CROSSOVERS PER FACING ROWS IN THE NETWORK SUITE AND GSMDF's.

B. LADDER TRAYS SHALL BE MOUNTED A MINIMUM OF 6" ABOVE ALL RACKS AND CABINETS.

Salas O'Brien

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Nashville
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Nashville, TN 37204

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SHEET TITLE

TECHNOLOGY - TIER 1 PATHWAY - OVERALL PLAN

SHEET NUMBER

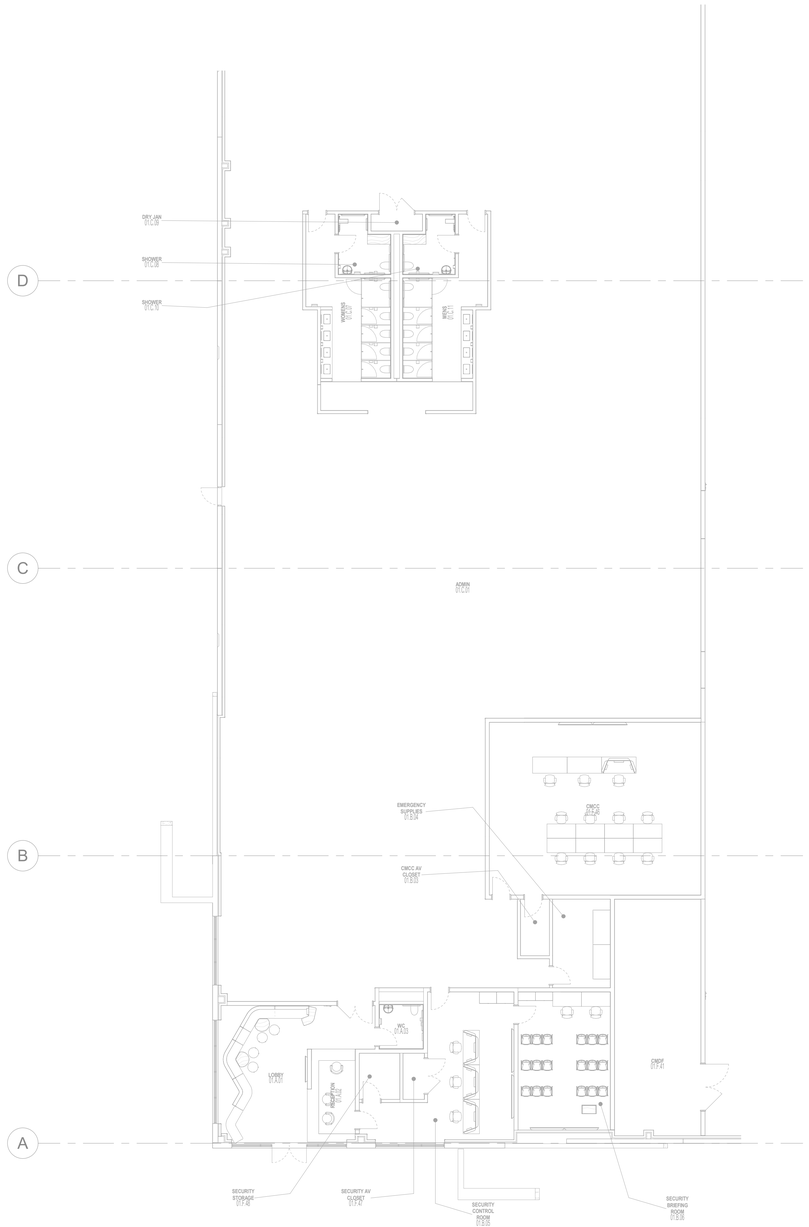
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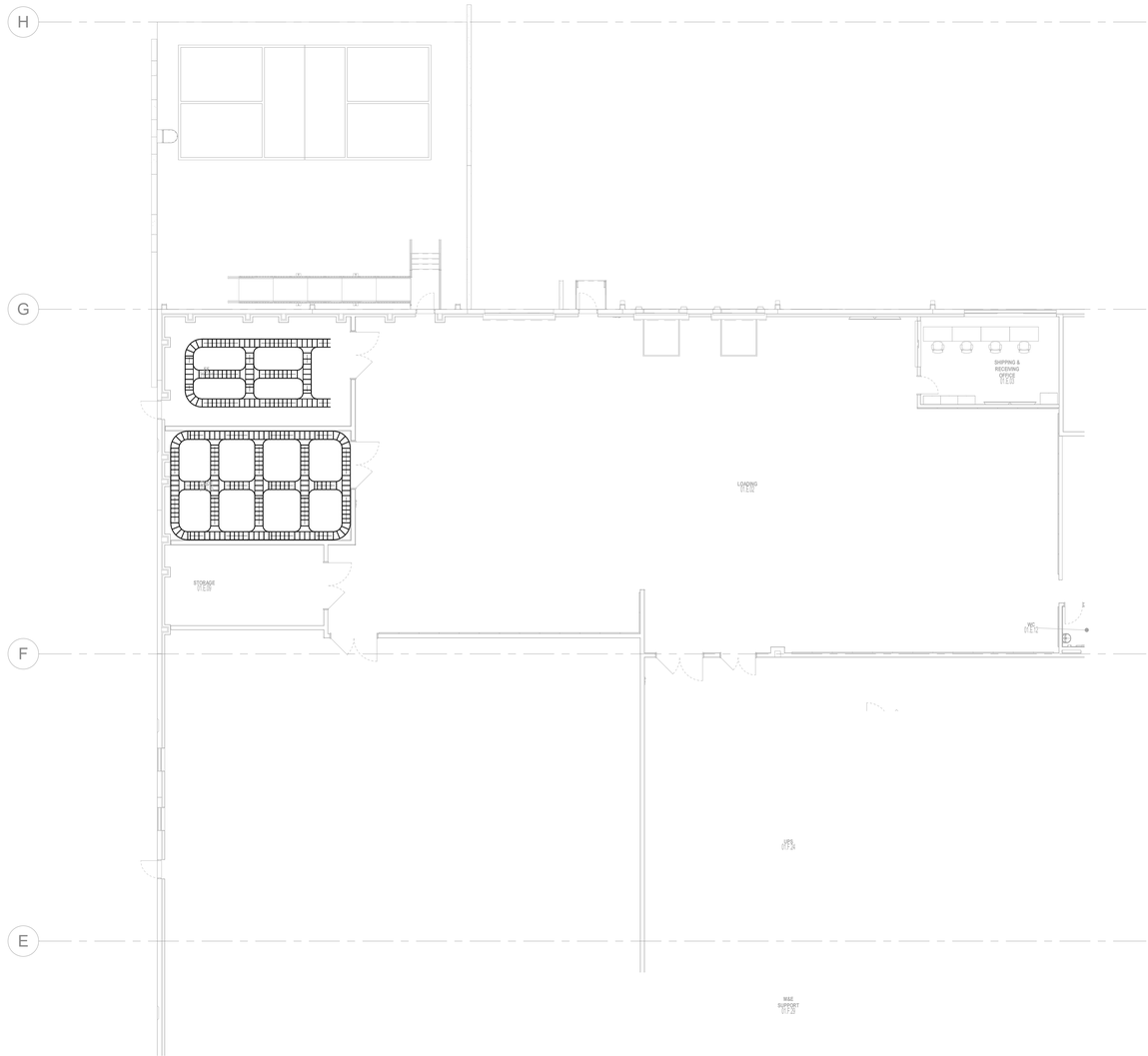
GENERAL NOTES:

A. PROVIDE 18" LADDER TYPE CABLE TRAY AND ALL ASSOCIATED FITTINGS ABOVE ALL RACKS AND CABINETS IN ALL EF's, MMPR's, GSMDF's, GSIDF's, & NETWORK SUITE ROWS DESIGNATED FOR BACKBONE CABLE PATCHING. PROVIDE THREE (3) CROSSOVERS PER FACING ROWS IN THE NETWORK SUITE AND GSMDF's.

B. LADDER TRAYS SHALL BE MOUNTED A MINIMUM OF 6" ABOVE ALL RACKS AND CABINETS.



1 ENLARGED PLAN - TIER 1 PATHWAY PLAN - OFFICE AREA
SCALE: 3/32" = 1'-0"



2 ENLARGED PLAN - TIER 1 PATHWAY PLAN - STORAGE AREA
SCALE: 3/32" = 1'-0"

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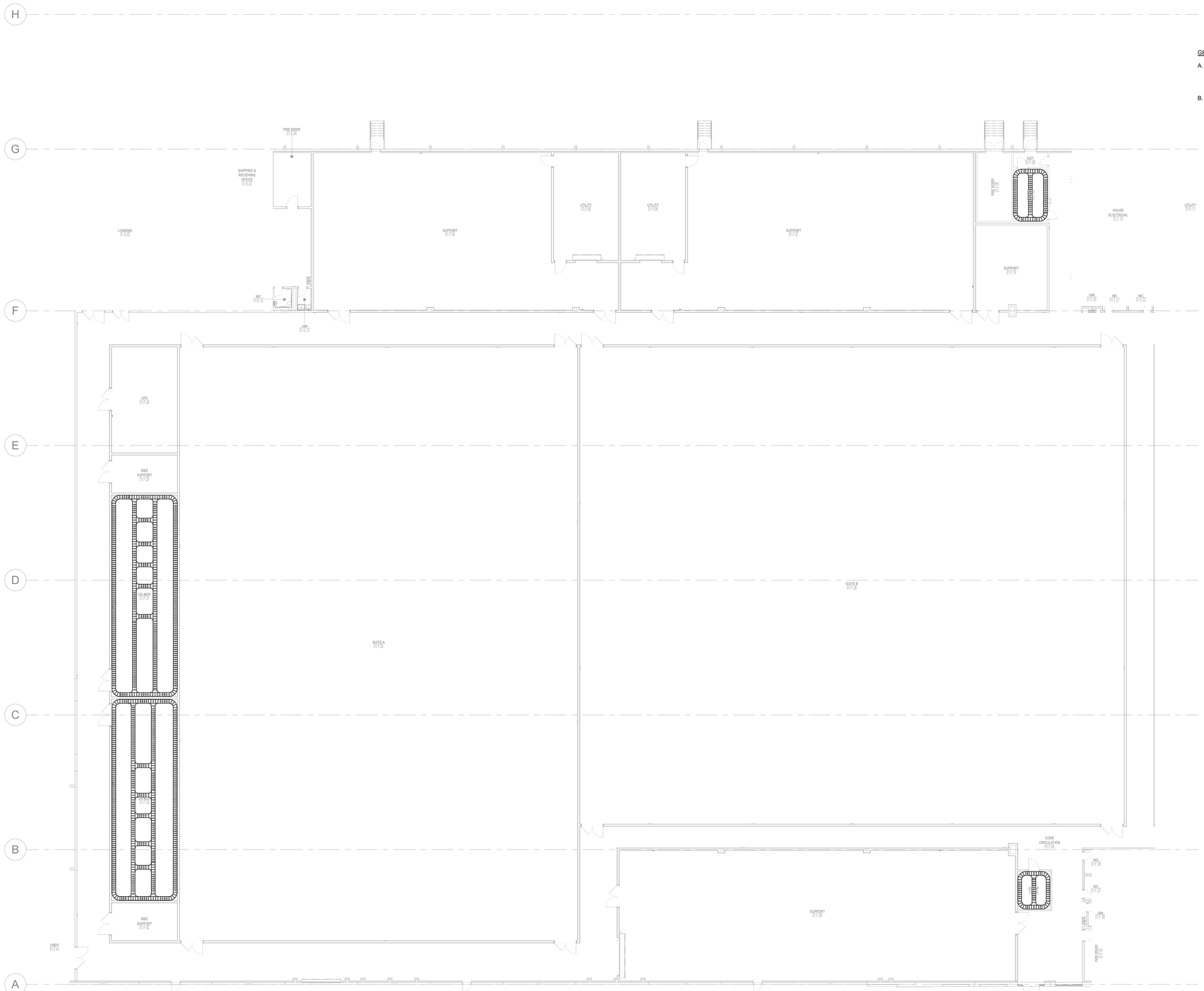
SHEET TITLE

TECHNOLOGY - TIER 1 PATHWAY PLAN - ENLARGED FLOOR PLAN - OFFICE & STORAGE AREA

SHEET NUMBER

BLDG1-T111-A

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GENERAL NOTES:

A. PROVIDE 18" LADDER TYPE CABLE TRAY AND ALL ASSOCIATED FITTINGS ABOVE ALL RACKS AND CABINETS IN ALL EF's, GSMDF's, GSIDF's, & NETWORK SUITE ROWS DESIGNATED FOR BACKBONE CABLE PATCHING. PROVIDE THREE (3) CROSSOVERS PER FACING ROWS IN THE NETWORK SUITE AND GSMDF's.

B. LADDER TRAYS SHALL BE MOUNTED A MINIMUM OF 6" ABOVE ALL RACKS ANC

1 ENLARGED PLAN - TIER 1 PATHWAY PLAN - SUITE A & B
SCALE: 1/16" = 1'-0"

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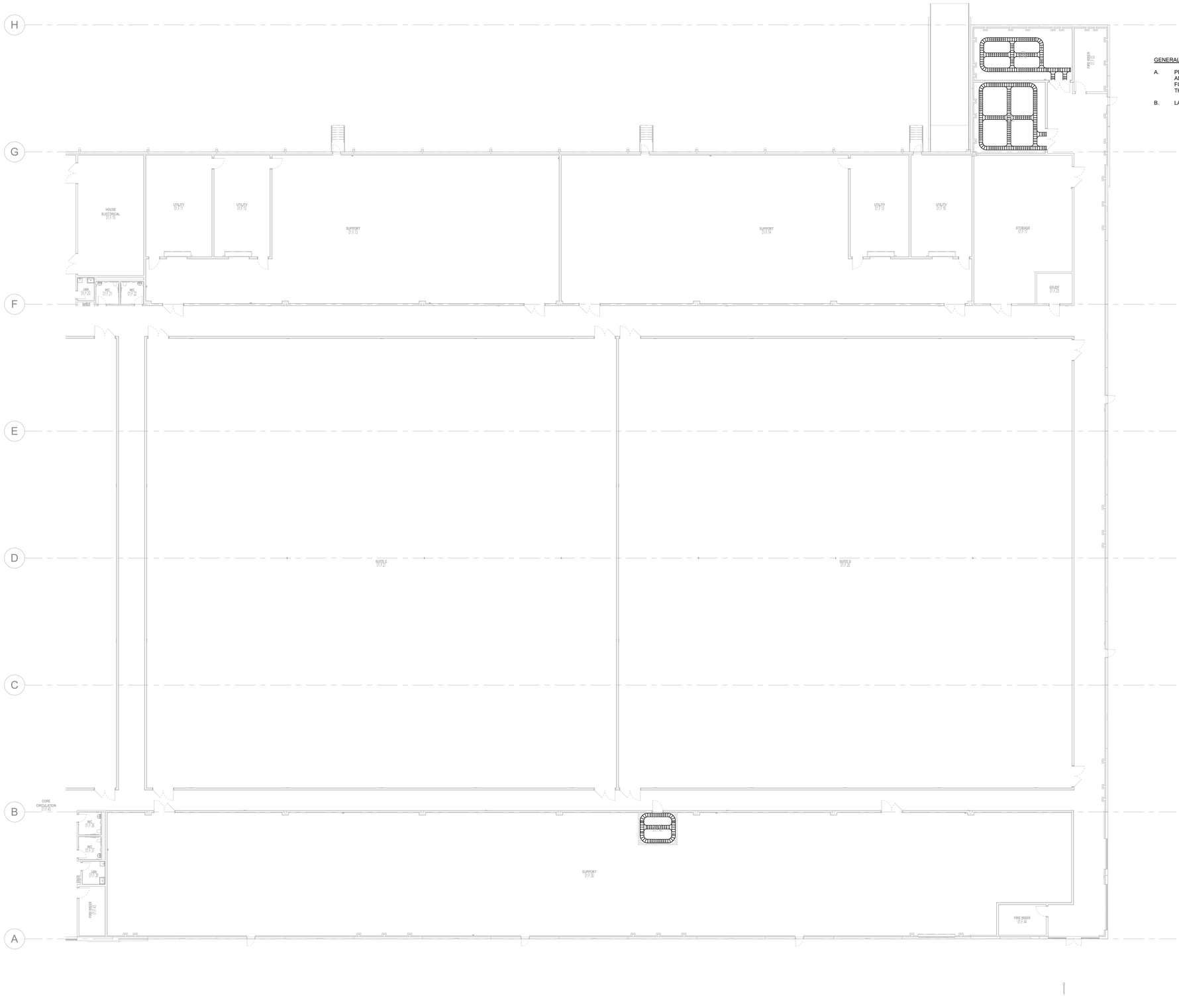
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SHEET TITLE

TECHNOLOGY - TIER 1 PATHWAY PLAN - ENLARGED FLOOR PLAN - SUITE A & B

SHEET NUMBER
BLDG1-T112-A

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1 ENLARGED PLAN - TIER 1 PATHWAY PLAN - SUITE C & D
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

A. PROVIDE 18" LADDER TYPE CABLE TRAY AND ALL ASSOCIATED FITTINGS ABOVE ALL RACKS AND CABINETS IN ALL EF's, MMR's, GSMDF's, GSIDF's, & NETWORK SUITE ROWS DESIGNATED FOR BACKBONE CABLE PATCHING. PROVIDE THREE (3) CROSSOVERS PER THE NETWORK SUITE AND GSMDF's.

B. LADDER TRAYS SHALL BE MOUNTED A MINIMUM OF 6" ABOVE ALL RACKS A

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SHEET TITLE

TECHNOLOGY - TIER 1 PATHWAY PLAN - ENLARGED FLOOR PLAN - SUITE C & D

SHEET NUMBER
BLDG1-T113-A

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GENERAL NOTES:

A. PROVIDE AN 18" X 4" WIRE BASKET TRAY FOR GENERAL SERVICE COPPER AND FIBER OPTIC CABLING. INCLUDE ALL NECESSARY FITTINGS AND HANGERS FOR A 5-TIERED CABLE TRAY SYSTEM.

B. THE GS TIER CABLE TRAY SHALL BE THE HIGHEST TIER MOUNTED AT A BASE HEIGHT OF 15' AFF.

C. CABLE TRAYS WITH A 4" DEPTH SHALL HAVE A 12" BOTTOM TO BOTTOM VERTICAL SPACING.

D. PROVIDE (2) DIVERSE ENTRY POINTS INTO EVERY EF, GSMDF, AND GSIDF TO SUPPORT RACK TO RACK PATH DIVERSITY. IN THE CASE OF TWO EF ROOMS, PROVIDE (2) ENTRY POINTS.

E. PROVIDE TRAY INFRASTRUCTURE IN THE OPEN CEILING AREA OF THE ADMIN CEILING OF THE ADMIN SPACE TO SUPPORT WORK AREAS, WIRELESS ACCESS POINTS, AND AUDIO/VISUALCABLING.

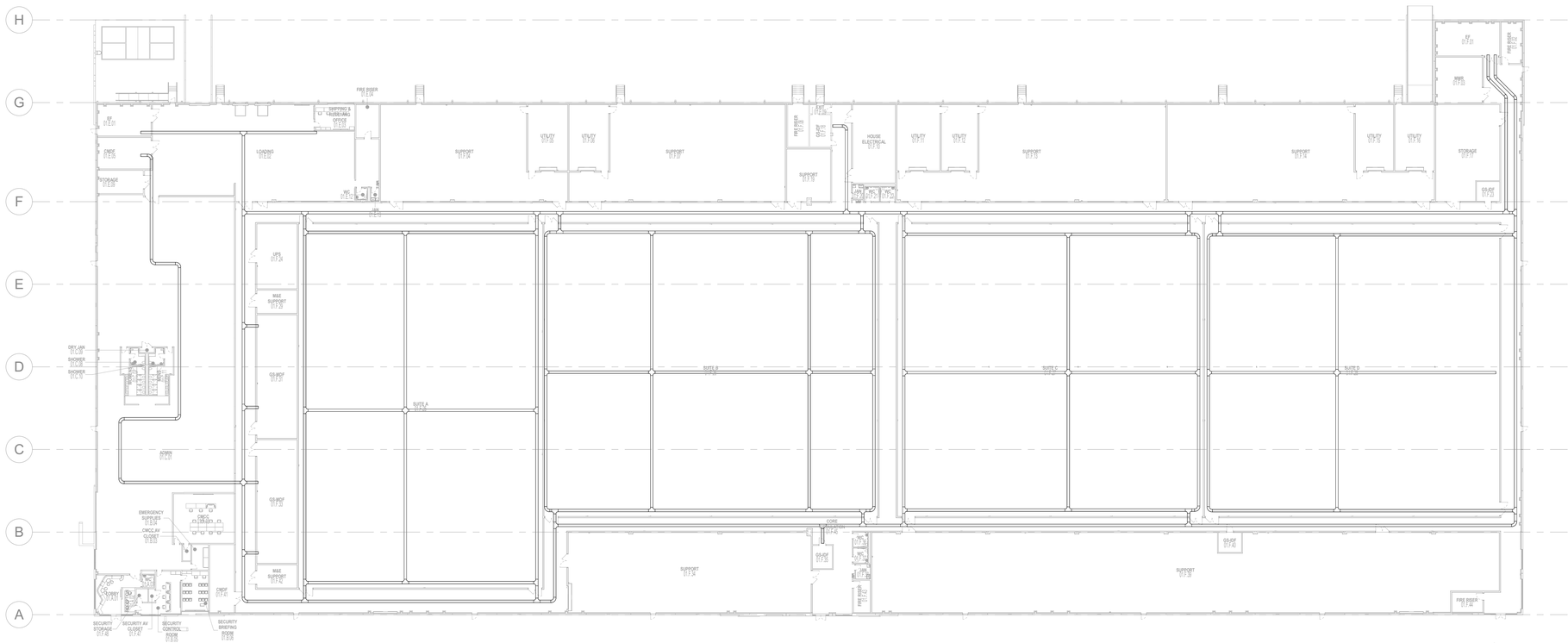
F. MAINTAIN A WORKING CLEARANCE OF 30" ON ONE SIDE OF THE CABLE TRAYS AT ALL TIMES.

G. CABLE TRAYS SHALL BE INSTALLED IN STRAIGHT AND LEVEL RUNS. WHEN ROUTING AROUND OBSTACLES AND MAKING ELEVATION CHANGES, MINIMIZE MULTIPLE BACK TO BACK DIRECTIONAL CHANGES TO KEEP TRAY RUNS AS STRAIGHT AS POSSIBLE. USE SWEEPING 90° BENDS.

H. PROVIDE PLASTIC ROLL LINER IN ALL HORIZONTAL TRAYS. METAL LINERS ARE NOT PERMITTED.

I. PROVIDE END CAPS FOR UNISTRUT AND ALL-THREAD ENDS TO PROTECT MINIMIZE POTENTIAL INJURIES.

J. ALL CABLE TRAYS SHALL BE BONDED PER INDUSTRY STANDARDS.



1 TECHNOLOGY - TIER GS PATHWAY PLAN - OVERALL PLAN
SCALE: 1/32" = 1'-0"

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SHEET TITLE

TECHNOLOGY - TIER GS PATHWAY - OVERALL PLAN

SHEET NUMBER
BLDG1-T170-A

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GENERAL NOTES:

A. PROVIDE AN 18" X 4" WIRE BASKET TRAY FOR GENERAL SERVICE COPPER AND FIBER OPTIC CABLING. INCLUDE ALL NECESSARY FITTINGS AND HANGERS FOR A 5-TIERED CABLE TRAY SYSTEM.

B. THE GS TIER CABLE TRAY SHALL BE THE HIGHEST TIER MOUNTED AT A BASE HEIGHT OF 15' AFF.

C. CABLE TRAYS WITH A 4" DEPTH SHALL HAVE A 12" BOTTOM TO BOTTOM VERTICAL SPACING.

D. PROVIDE (2) DIVERSE ENTRY POINTS INTO EVERY EF, GSMDF, AND GSIDF TO SUPPORT RACK TO RACK PATH DIVERSITY. IN THE CASE OF TWO EF ROOMS, PROVIDE (2) ENTRY POINTS.

E. PROVIDE TRAY INFRASTRUCTURE IN THE OPEN CEILING AREA OF THE ADMIN CEILING OF THE ADMIN SPACE TO SUPPORT WORK AREAS, WIRELESS ACCESS POINTS, AND AUDIO/VISUALCABLING.

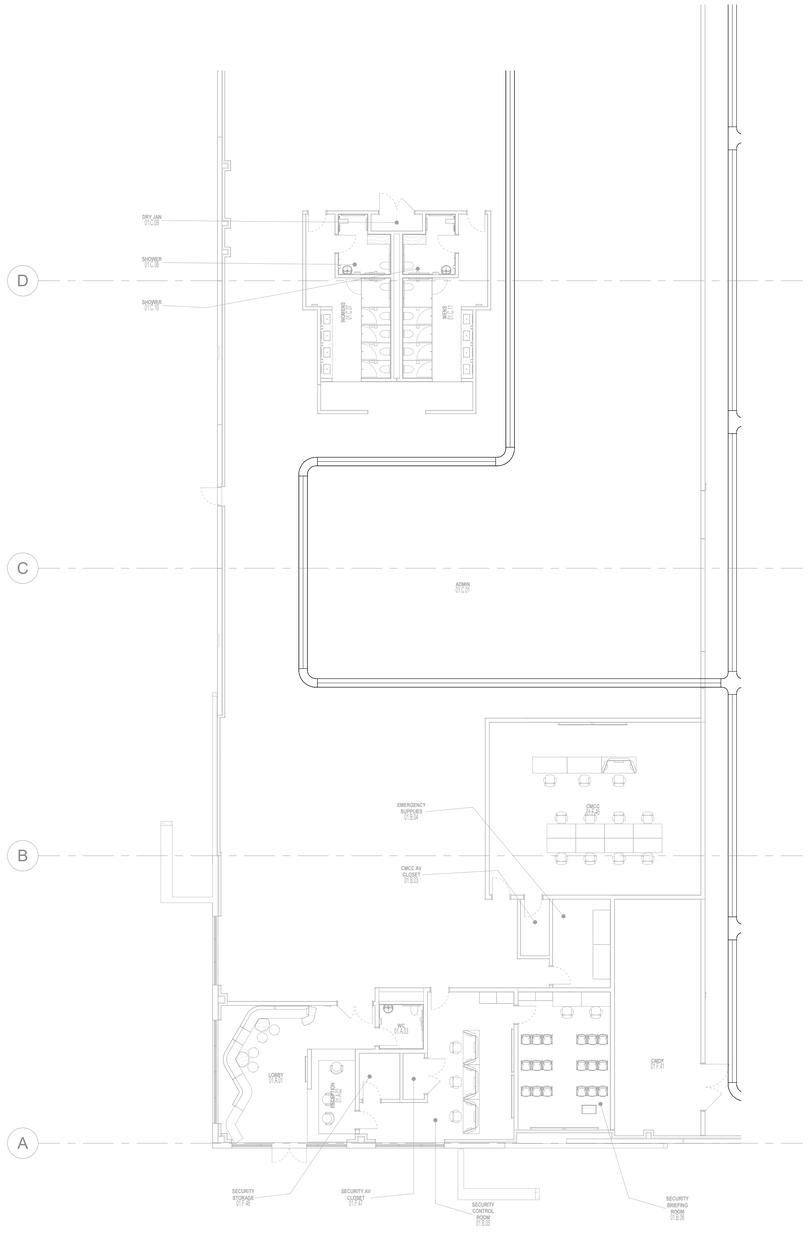
F. MAINTAIN A WORKING CLEARANCE OF 30" ON ONE SIDE OF THE CABLE TRAYS AT ALL TIMES.

G. CABLE TRAYS SHALL BE INSTALLED IN STRAIGHT AND LEVEL RUNS. WHEN ROUTING AROUND OBSTACLES AND MAKING ELEVATION CHANGES, MINIMIZE MULTIPLE BACK TO BACK DIRECTIONAL CHANGES TO KEEP TRAY RUNS AS STRAIGHT AS POSSIBLE. USE SWEEPING 90° BENDS.

H. PROVIDE PLASTIC ROLL LINER IN ALL HORIZONTAL TRAYS. METAL LINERS ARE NOT PERMITTED.

I. PROVIDE END CAPS FOR UNISTRUT AND ALL-THREAD ENDS TO PROTECT MINIMIZE POTENTIAL INJURIES.

J. ALL CABLE TRAYS SHALL BE BONDED PER INDUSTRY STANDARDS.



1 ENLARGED PLAN - TIER GS PATHWAY PLAN - OFFICE & STORAGE AREA
SCALE: 3/32" = 1'-0"



2 ENLARGED PLAN - TIER GS PATHWAY PLAN- STORAGE AREA
SCALE: 3/32" = 1'-0"

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Nashville, TN 37204
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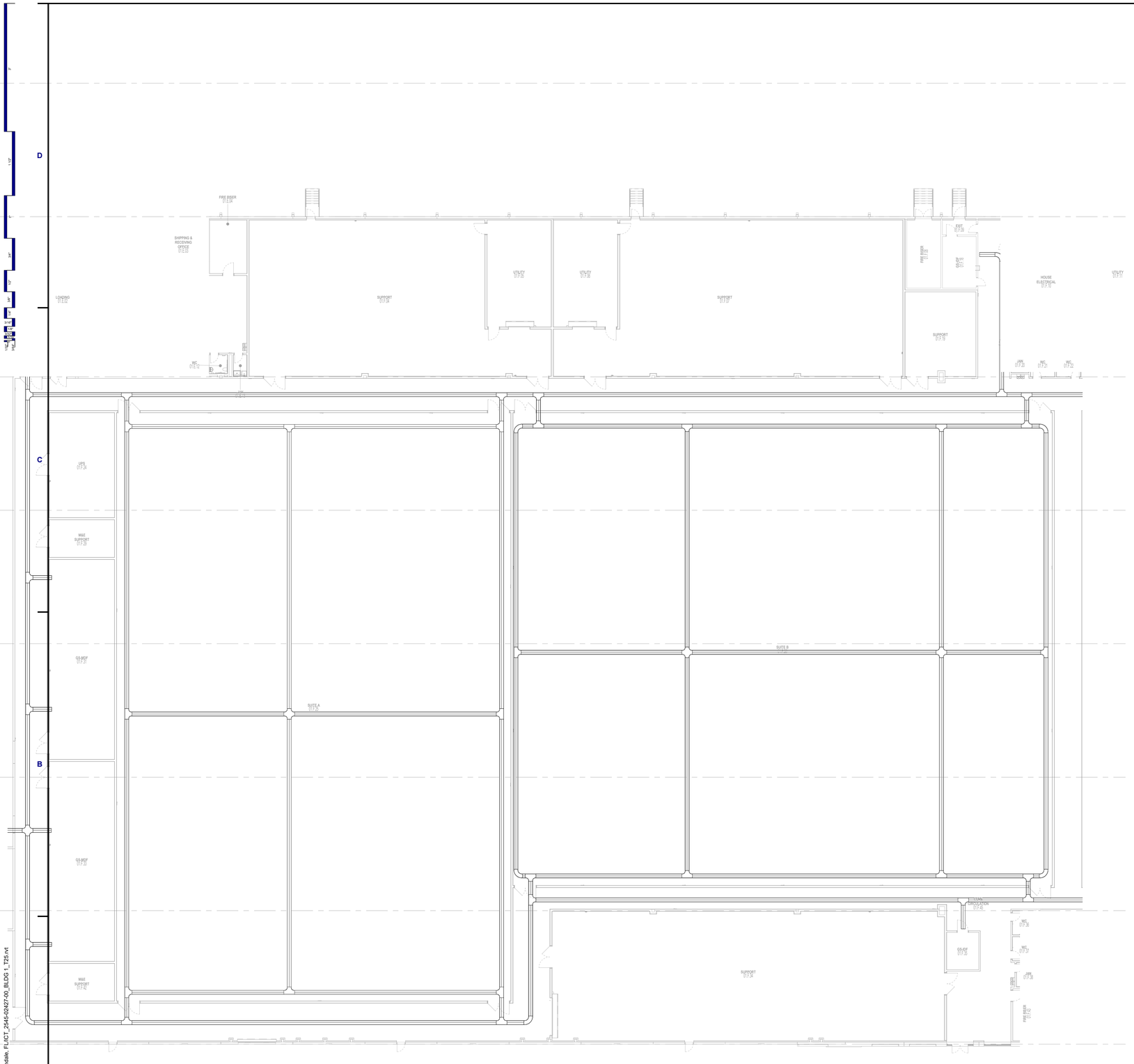
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SHEET TITLE

TECHNOLOGY - TIER GS PATHWAY - ENLARGED FLOOR PLAN - OFFICE & STORAGE AREA

SHEET NUMBER
BLDG1-T171-A

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D

C

B

A

1 2 3 4

RGED PLAN - TIER GS PATHWAY PLAN - SUITE A & B

1'-0"

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GENERAL NOTES:

A. PROVIDE AN 18" X 4" WIRE BASKET TRAY FOR GENERAL SERVICE COPPER AND FIBER OPTIC CABLING. INCLUDE ALL NECESSARY FITTINGS AND HANGERS FOR A 5-TIERED CABLE TRAY SYSTEM.

B. THE GS TIER CABLE TRAY SHALL BE THE HIGHEST TIER MOUNTED AT A BASE HEIGHT OF 15' AFF.

C. CABLE TRAYS WITH A 4" DEPTH SHALL HAVE A 12" BOTTOM TO BOTTOM VERTICAL SPACING

D. PROVIDE (2) DIVERSE ENTRY POINTS INTO EVERY EF, GSMDF, AND GSIDF TO SUPPORT RAC PATH DIVERSITY. IN THE CASE OF TWO EF ROOMS, PROVIDE (2) ENTRY POINTS.

E. PROVIDE TRAY INFRASTRUCTURE IN THE OPEN CEILING AREA OF THE ADMIN CEILING OF TI SPACE TO SUPPORT WORK AREAS, WIRELESS ACCESS POINTS, AND AUDIO/VISUALCABLIN

F. MAINTAIN A WORKING CLEARANCE OF 30" ON ONE SIDE OF THE CABLE TRAYS AT ALL TIMES

G. CABLE TRAYS SHALL BE INSTALLED IN STRAIGHT AND LEVEL RUNS. WHEN ROUTING AROUN AND MAKING ELEVATION CHANGES, MINIMIZE MULTIPLE BACK TO BACK DIRECTIONAL CHANGES TO KEEP TRAY RUNS AS STRAIGHT AS POSSIBLE. USE SWEEPING 90° BENDS.

H. PROVIDE PLASTIC ROLL LINER IN ALL HORIZONTAL TRAYS. METAL LINERS ARE NOT PERMITTED.

I. PROVIDE END CAPS FOR UNISTRUT AND ALL-THREAD ENDS TO PROTECT MINIMIZE POTENTIAL INJURIES.

J. ALL CABLE TRAYS SHALL BE BONDED PER INDUSTRY STANDARDS.

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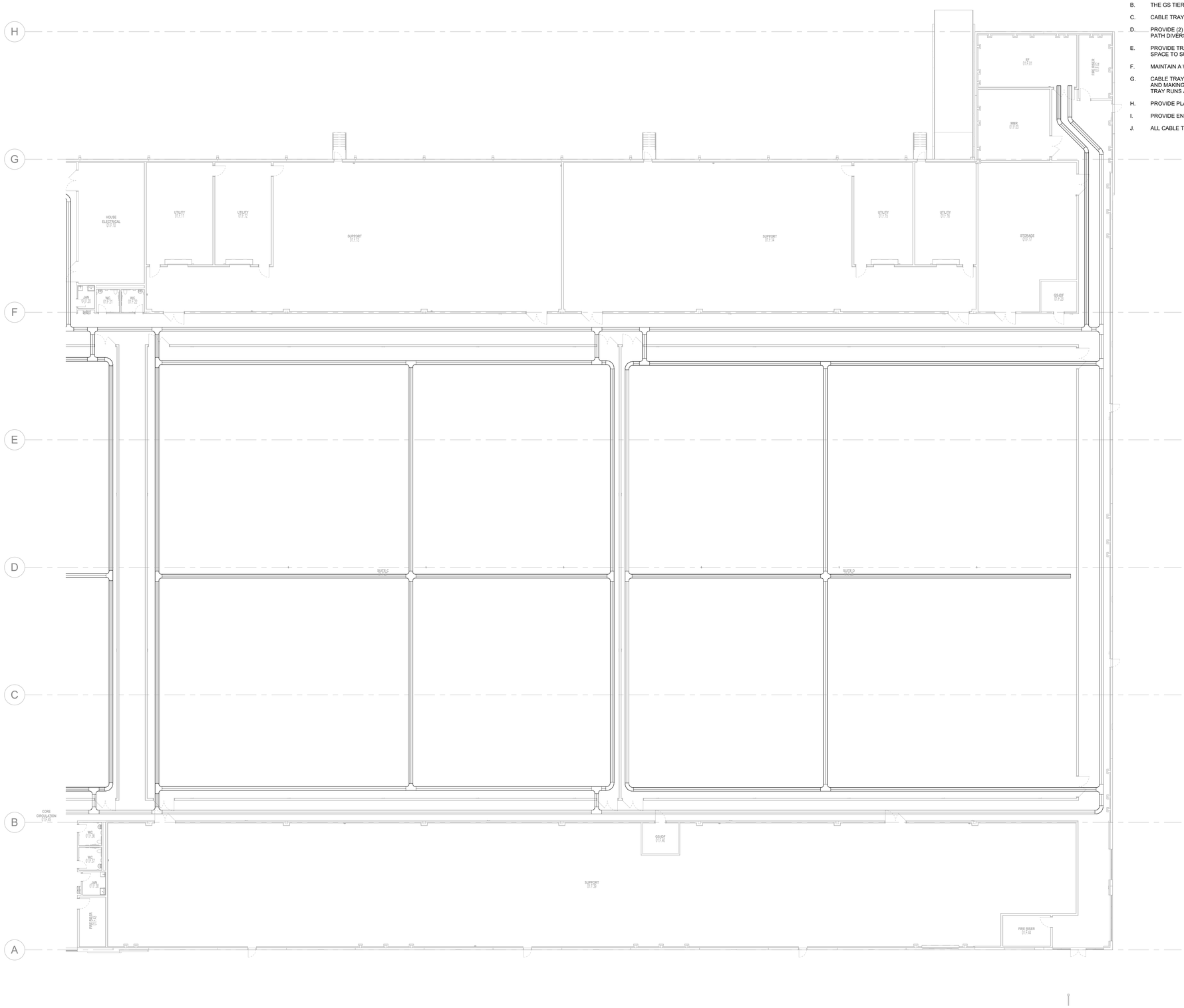
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SHEET TITLE

TECHNOLOGY - TIER GS PATHWAY - ENLARGED FLOOR PLAN - SUITE A & B

SHEET NUMBER
BLDG1-T172-A



GENERAL NOTES:

A. PROVIDE AN 18" X 4" WIRE BASKET TRAY FOR GENERAL SERVICE COPPER AND FIBER OPTIC CABLING. INCLUDE ALL NECESSARY FITTINGS AND HANGERS FOR A 5-TIERED CABLE TRAY SYSTEM.

B. THE GS TIER CABLE TRAY SHALL BE THE HIGHEST TIER MOUNTED AT A BASE HEIGHT OF 15' AFF.

C. CABLE TRAYS WITH A 4" DEPTH SHALL HAVE A 12" BOTTOM TO BOTTOM VERTICAL SPACING.

D. PROVIDE (2) DIVERSE ENTRY POINTS INTO EVERY EF, GSMDF, AND GSIDF TO SUPPORT RACK TO RACK PATH DIVERSITY. IN THE CASE OF TWO EF ROOMS, PROVIDE (2) ENTRY POINTS.

E. PROVIDE TRAY INFRASTRUCTURE IN THE OPEN CEILING AREA OF THE ADMIN CEILING OF THE ADMIN SPACE TO SUPPORT WORK AREAS, WIRELESS ACCESS POINTS, AND AUDIO/VISUALCABLING.

F. MAINTAIN A WORKING CLEARANCE OF 30" ON ONE SIDE OF THE CABLE TRAYS AT ALL TIMES.

G. CABLE TRAYS SHALL BE INSTALLED IN STRAIGHT AND LEVEL RUNS. WHEN ROUTING AROUND OBSTACLES AND MAKING ELEVATION CHANGES, MINIMIZE MULTIPLE BACK TO BACK DIRECTIONAL CHANGES TO KEEP TRAY RUNS AS STRAIGHT AS POSSIBLE. USE SWEEPING 90° BENDS.

H. PROVIDE PLASTIC ROLL LINER IN ALL HORIZONTAL TRAYS. METAL LINERS ARE NOT PE

I. PROVIDE END CAPS FOR UNISTRUT AND ALL-THREAD ENDS TO PROTECT MINIMIZE PC

J. ALL CABLE TRAYS SHALL BE BONDED PER INDUSTRY STANDARDS.

1 ENLARGED PLAN - TIER GS PATHWAY- SUITE C & D
SCALE: 1/16" = 1'-0"

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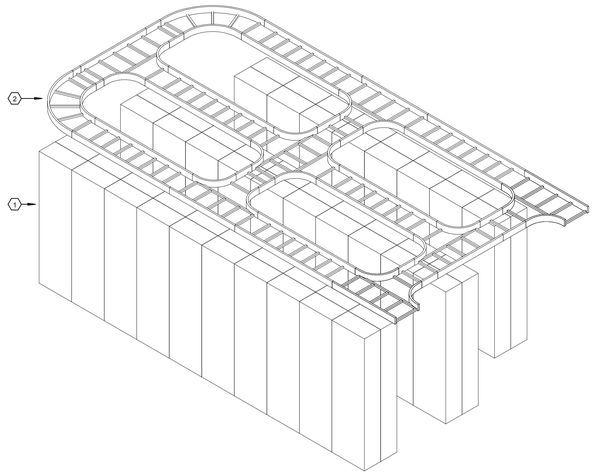
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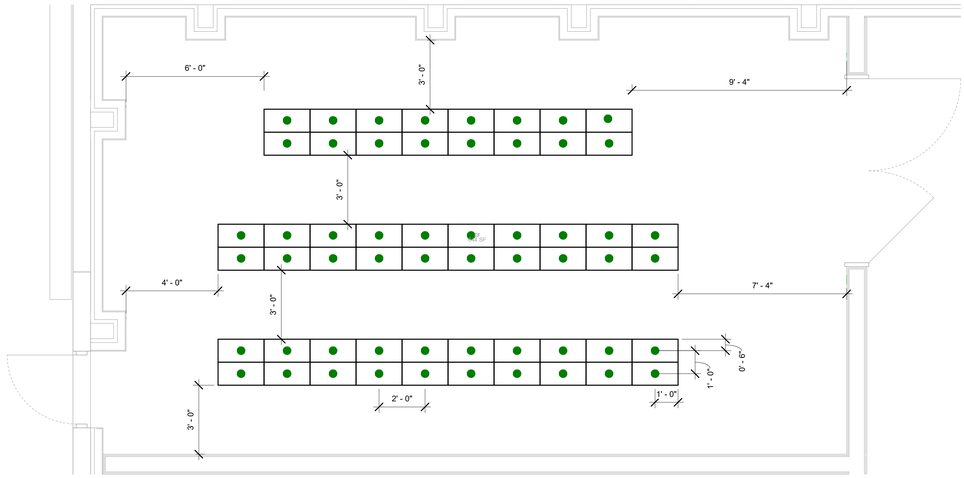
TECHNOLOGY - TIER GS PATHWAY - ENLARGED FLOOR PLAN - SUITE C & D

SHEET NUMBER
BLDG1-T173-A

Autodesk Docs://Auburndale, FL/CT_2545-02427-00_BLDG 1_T25.rvt
9/21/2026 4:59:20 PM



1 EF 547 SF
SCALE:



3 EF 547 SF ENLARGED
SCALE: 3/8" = 1'-0"

GENERAL NOTES:

A. PROVIDE (56) 4" CONDUITS STUBBED UP THROUGH THE FLOOR SLAB WITHIN THE ENTRANCE FACILITY (EF) AS INDICATED ON THE DRAWINGS. COORDINATE CONDUIT STUB-UP LOCATIONS WITH THE FINAL APPROVED SUMITOMO HSX SPLICE CABINET LAYOUT PRIOR TO INSTALLATION.

B. ARRANGE CONDUIT STUB-UPS IN (3) DOUBLE-SIDED ROWS TO ACCOMMODATE BACK-TO-BACK SUMITOMO HSX SPLICE CABINETS. PROVIDE (16) CABINET/CONDUIT POSITIONS IN ROW 1 AND (20) CABINET/CONDUIT POSITIONS EACH IN ROWS 2 AND 3, FOR A TOTAL OF (56) POSITIONS.

C. MAINTAIN UNIFORM ALIGNMENT AND SPACING OF CONDUIT STUB-UPS WITHIN EACH ROW. COORDINATE ROW LOCATIONS TO MAINTAIN REQUIRED ACCESS AND WORKING CLEARANCES AROUND ALL SPLICE CABINETS.

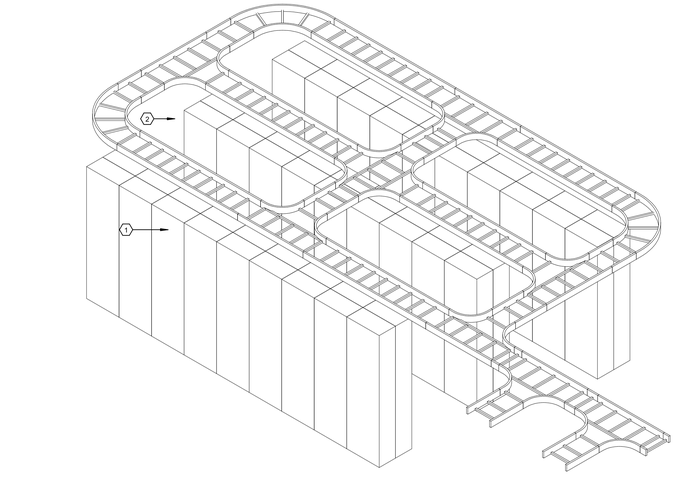
D. PROVIDE ONE (1) SUMITOMO HSX SPLICE CABINET FOR EACH 4" CONDUIT STUB-UP, FOR A TOTAL OF (56) CABINETS. CENTER AND INSTALL EACH CABINET OVER ITS ASSOCIATED CONDUIT STUB-UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREM

E. COORDINATE CONDUIT STUB-UPS AND HSX CABINET LOCATIONS WITH STRUCTURAL REINFORCING, UNDERGROUND UTILITIES, DOORS, WALL-MOUNTED EQUIPMENT, ELECTRICA EQUIPMENT, TELECOMMUNICATIONS GROUNDING, AND OVERHEAD PATHWAYS PRIOR TO INSTALLATION.

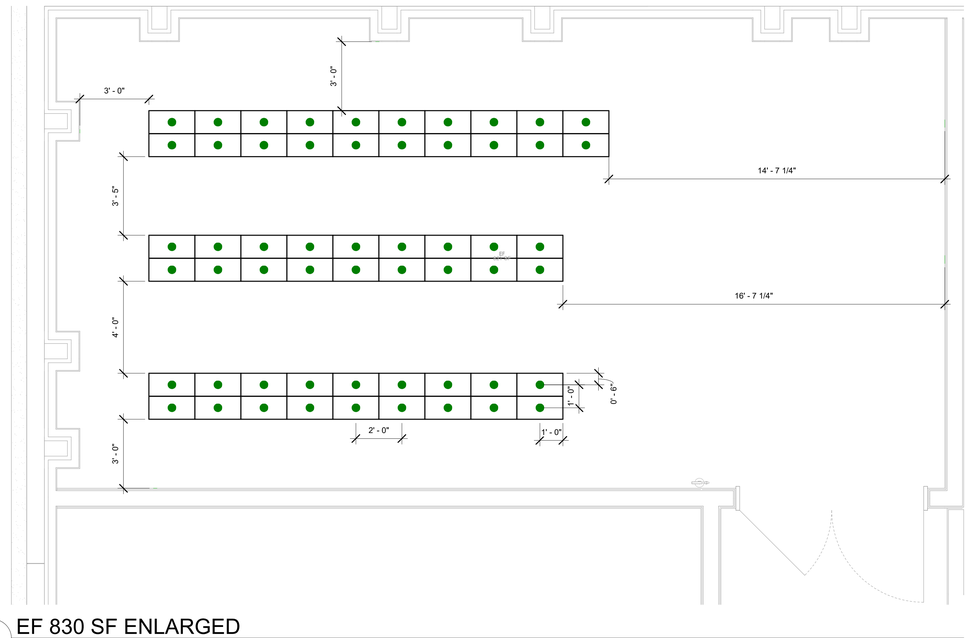
F. MAINTAIN CLEAR AISLES BETWEEN CABINET ROWS AND AT THE ENDS OF EACH ROW. CABIN DOORS, COVERS, SPLICE TRAYS, AND OTHER SERVICEABLE COMPONENTS SHALL BE FULLY ACCESSIBLE WITHOUT OBSTRUCTION FROM ADJACENT CABINETS OR BUILDING SYSTEMS.

KEYED NOTES:

1. PROVIDE (1) HSX SUMITOMO PER EACH ENTRANCE CONDUIT. TOTAL OF 56 PER EF ROOM.
2. PROVIDE 18" UNIVERSAL LADDER TRAY WITH ALL ASSOCIATED FITTINGS AND CONNECTORS 6" ABOVE SPLICE ENCLOSURES.



2 EF 830 SF
SCALE:



4 EF 830 SF ENLARGED
SCALE: 3/8" = 1'-0"

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2950 Kraft Drive
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BUILDING 1

810 PACE RD.
AUBURNDALE, FL 33823

ISSUE DATE	DESCRIPTION
09/21/2026	REVISED FIT-UP IFP

Δ	DESCRIPTION	DATE

ISSUE:

PROJ NO
2645-00192

CHECKED BY JC
DRAWN BY JC

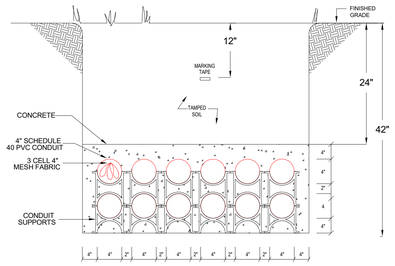
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SHEET TITLE

TECHNOLOGY - 3D VIEWS

SHEET NUMBER
BLDG1-T800

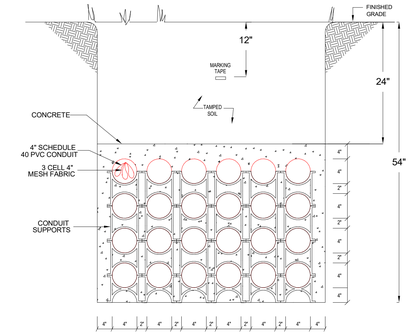
Autodesk Docs://Auburndale, FL/ICT_2545-02427-00_BLDG 1_T25.rvt
9/21/2026 4:59:21 PM



12 WAY DUCT BANK

DETAIL
No Scale

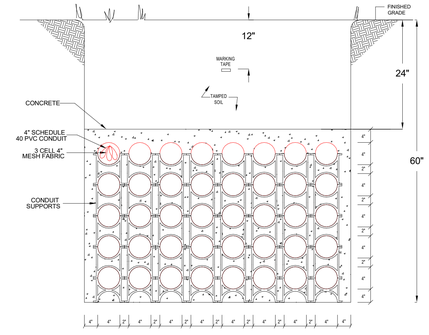
1



24 WAY DUCT BANK

DETAIL
No Scale

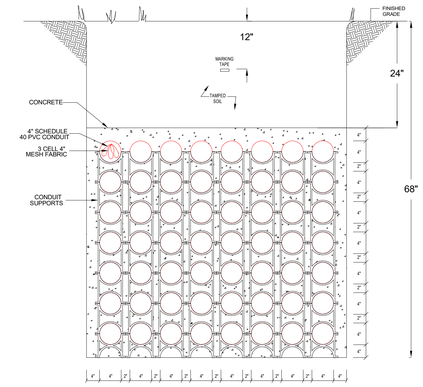
2



40 WAY DUCT BANK DETAIL

DETAIL
No Scale

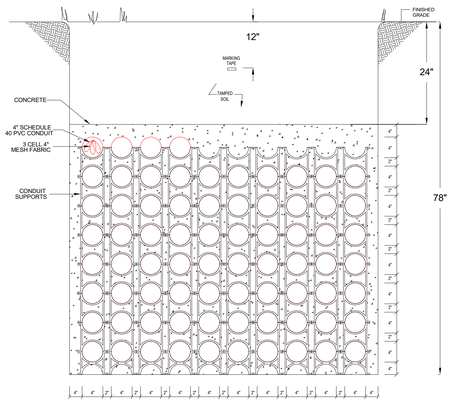
3



56 WAY DUCT BANK

DETAIL
No Scale

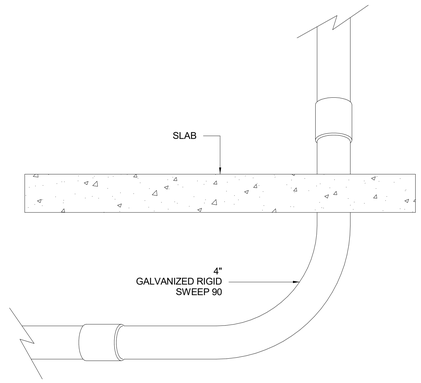
4



74 WAY DUCT BANK

DETAIL
No Scale

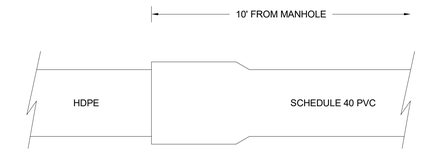
5



CONDUIT ENTRANCE DETAIL

No Scale

6

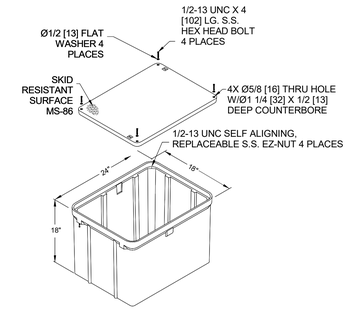


THIS DETAIL TO BE USED WHEN DIRECTIONAL BORING BETWEEN POINTS.
TRANSITION JOINT MUST BE CONCRETE ENCASED

CONDUIT TYPE TRANSITION PRIOR TO MANHOLE ENTRY DETAIL

No Scale

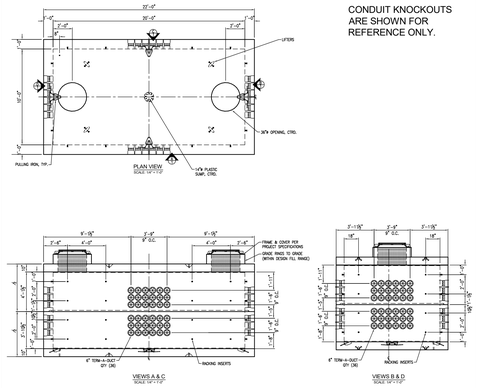
7



18"x24"x18" HANDHOLE DETAIL

No Scale

8

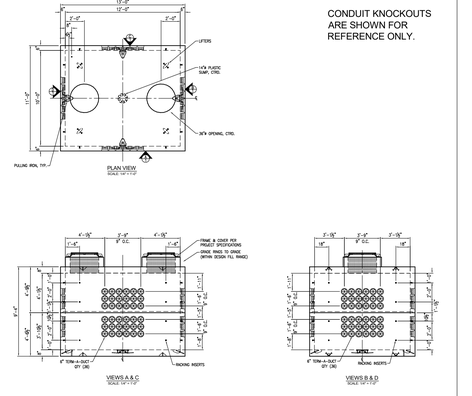


CONDUIT KNOCKOUTS ARE SHOWN FOR REFERENCE ONLY.

10x20x8 MANHOLE

DETAIL
No Scale

9

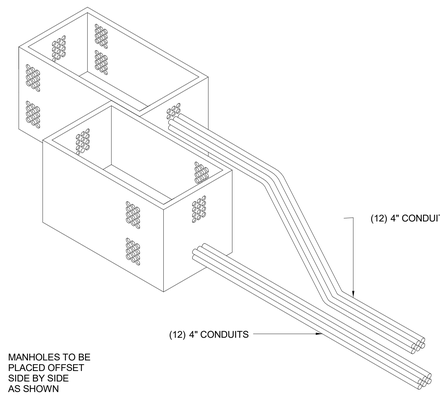


CONDUIT KNOCKOUTS ARE SHOWN FOR REFERENCE ONLY.

10x12x8 MANHOLE

DETAIL
No Scale

10



MANHOLES TO BE PLACED OFFSET SIDE BY SIDE AS SHOWN

CARRIER VAULT AND DUCT BANK ALIGNMENT DETAIL

No Scale

11

Salas O'Brien

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Nashville
2950 Kraft Drive
Nashville, TN 37204

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AUBURNDALE, FL 33823

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Δ	DESCRIPTION	DATE

ISSUE:

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2645-00192

CHECKED BY JC
DRAWN BY JC

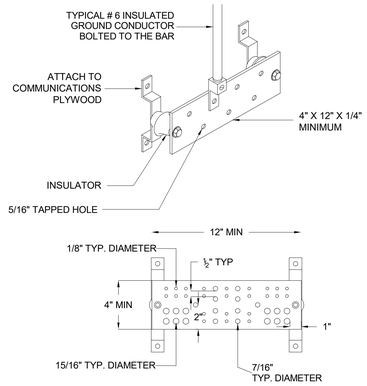
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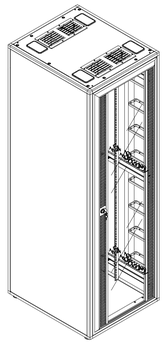
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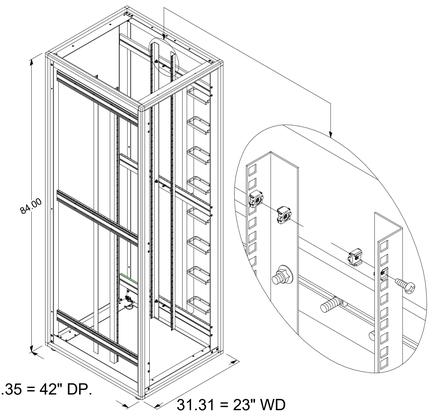
PRIMARY BONDING BUSBAR DETAIL (PBB) | 1

No Scale



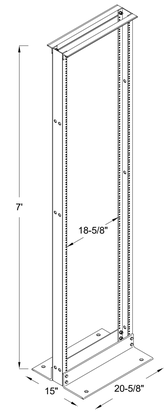
STANDARD 30" X 42" CABINET DETAIL | 2

No Scale



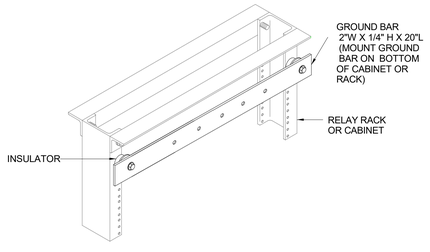
4 POST RACK DETAIL | 3

No Scale



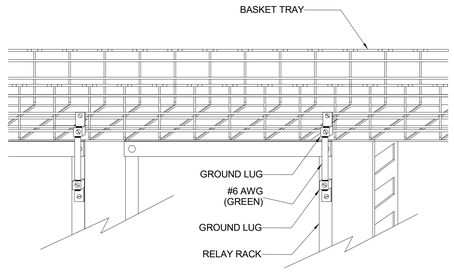
STANDARD 19" RELAY RACK DETAIL | 4

No Scale



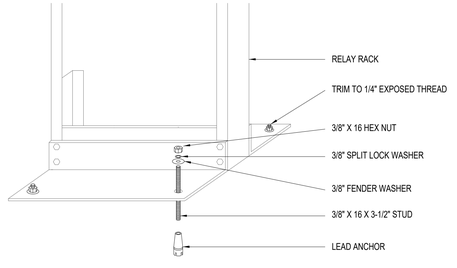
RACK BONDING BUSBAR (RBB) DETAIL | 5

No Scale



BASKET TRAY TO RACK / CABINET BONDING DETAIL | 6

No Scale



RELAY RACK STANDARD ANCHORING DETAIL | 7

No Scale

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Nashville
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Nashville, TN 37204
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AUBURNDALE, FL 33823

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Δ	DESCRIPTION	DATE

ISSUE:

PROJ NO
2645-00192

CHECKED BY: JC
DRAWN BY: JC

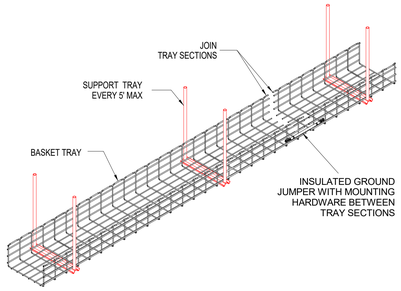
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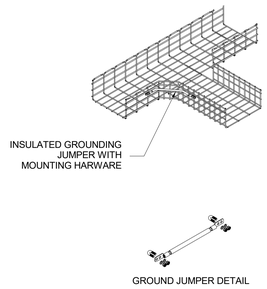
TECHNOLOGY - DETAILS

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BLDG1-T901

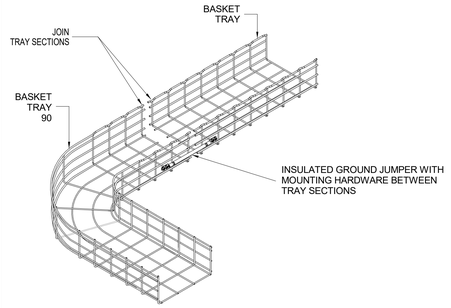
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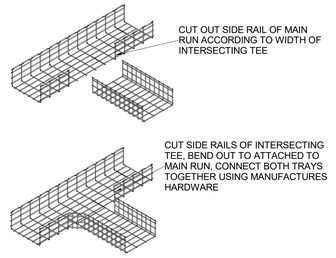
SINGLE TIER BASKET TRAY MOUNTING DETAILS WITH BONDING JUMPER DETAILS | 1
No Scale



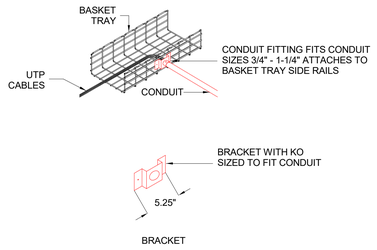
BASKET TRAY GROUNDING DETAILS DETAIL | 2
No Scale



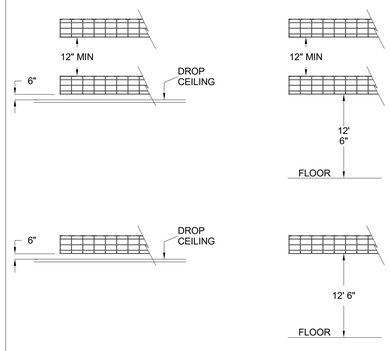
BASKET TRAY 90 WITH BONDING JUMPER DETAIL | 3
No Scale



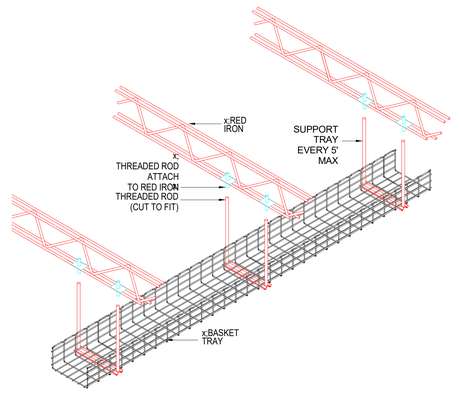
BASKET TRAY HORIZONTAL TEE ASSEMBLY DETAIL | 4
No Scale



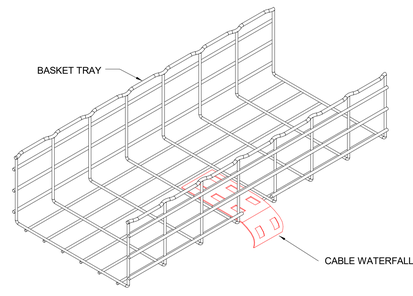
CONDUIT TO BASKET TRAY DETAIL | 5
No Scale



BASKET TRAY ELEVATION DETAIL | 6
No Scale



BASKET TRAY ATTACHED TO RED IRON DETAIL | 7
No Scale



BASKET TRAY CABLE WATERFALL DETAIL | 8
No Scale

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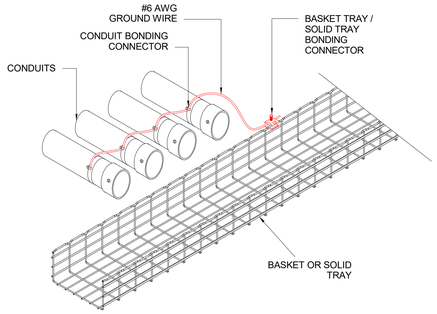
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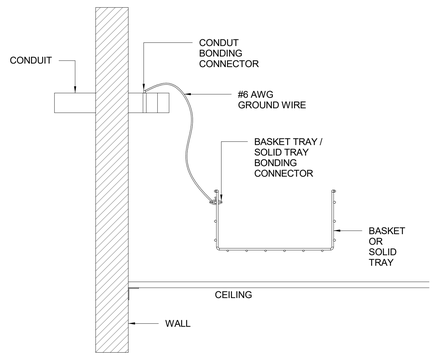
TECHNOLOGY - DETAILS

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BLDG1-T902

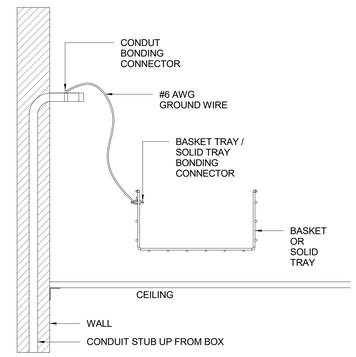
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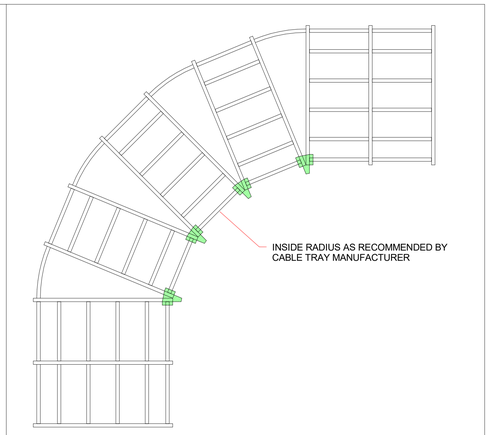
BASKET TRAY / SOLID TRAY WITH CONDUIT BONDING DETAIL — 1
No Scale



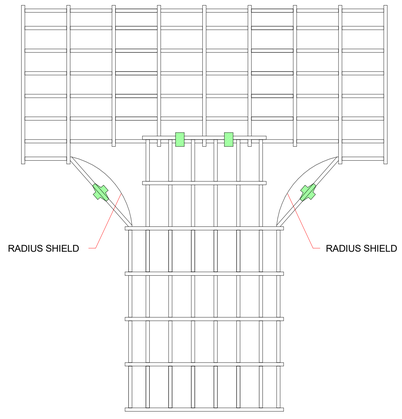
BASKET TRAY / SOLID TRAY WITH CONDUIT BONDING - SIDE VIEW DETAIL — 2
No Scale



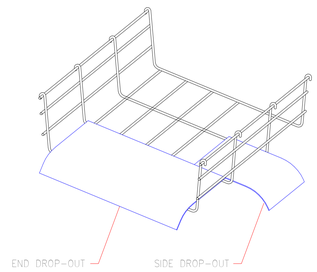
CONDUIT STUB OUT AND BONDING TO CABLE BASKET TRAY / SOLID TRAY - SIDE VIEW DETAIL — 3
No Scale



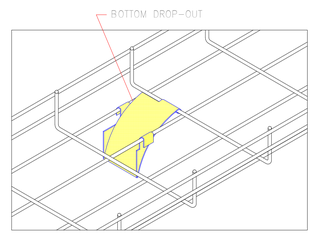
TYPICAL 90 DEGREE HORIZONTAL BEND DETAIL — 4
No Scale



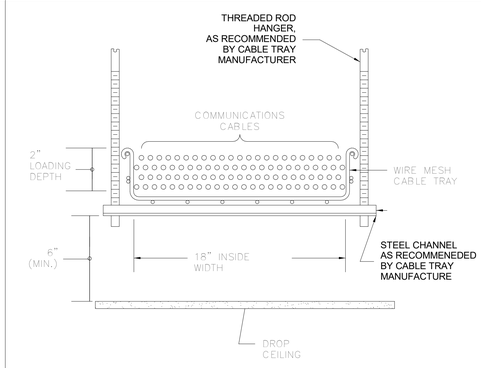
TYPICAL HORIZONTAL TEE DETAIL — 5
No Scale



TYPICAL SIDE AND END DROP - OUT DETAIL — 6



TYPICAL BOTTOM DROP-OUT — 7



TYPICAL SECTION: CABLE TRAY DETAIL — 8

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Nashville
2950 Kraft Drive
Nashville, TN 37204
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PROJECT SUNSHINE

BUILDING 1

810 PACE RD,
AUBURNDALE, FL 33823

ISSUE DATE	DESCRIPTION
09/21/2026	REVISED FIT-UP IFP

Δ	DESCRIPTION	DATE

ISSUE:

PROJ NO
2645-00192

CHECKED BY: JC
DRAWN BY: JC

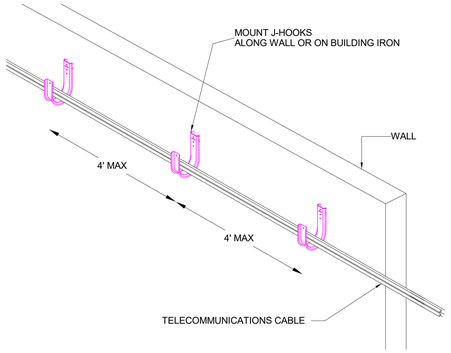
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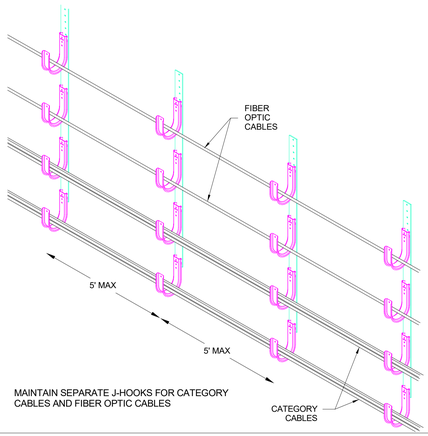
TECHNOLOGY - DETAILS

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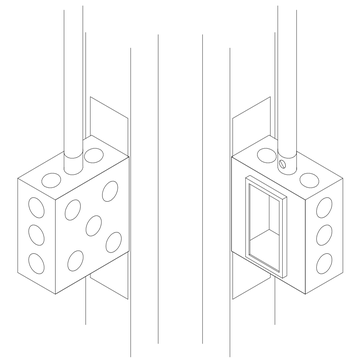
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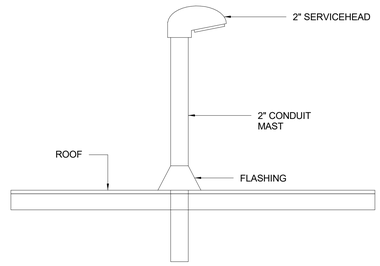
TYPICAL J-HOOK ROUTING DETAIL
DETAIL 1
No Scale



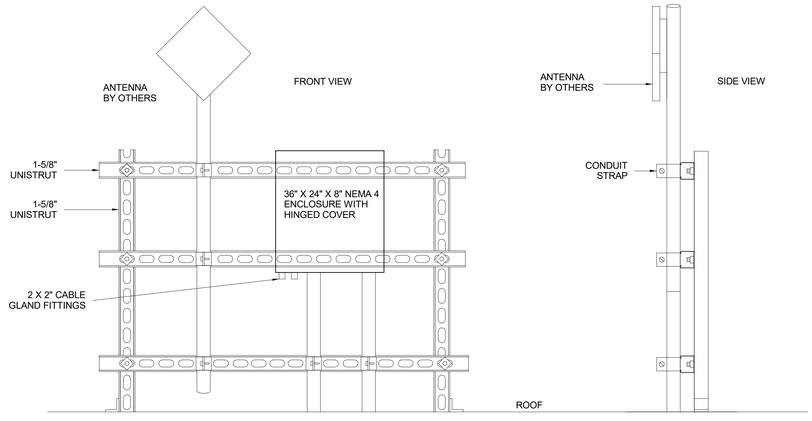
TYPICAL J-HOOK ROUTING DETAIL
DETAIL 2



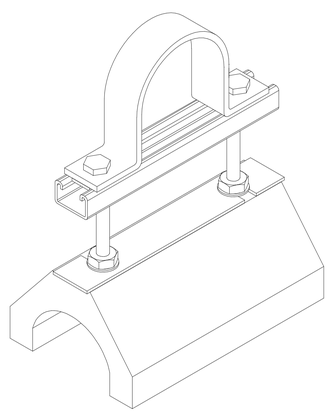
No Scale 3



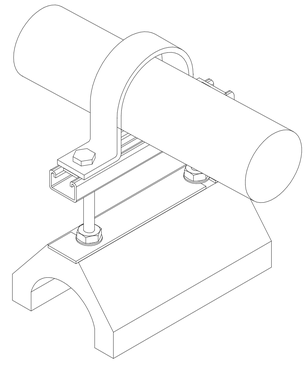
2" TELECOMMUNICATIONS MAST AND ROOF PENETRATION
No Scale 4



ROOFTOP PENETRATION DETAIL
No Scale 5



ROOFTOP CONDUIT SUPPORT BRACKET
DETAIL 6
No Scale



ROOFTOP CONDUIT SUPPORT BRACKET
WITH CONDUIT DETAIL 7
No Scale

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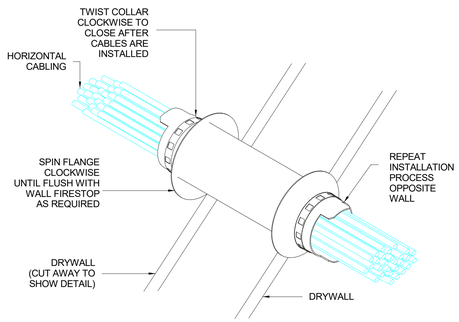
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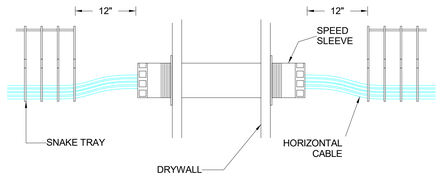
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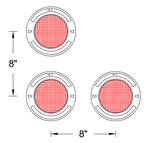
TECHNOLOGY - DETAILS

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BLDG1-T904

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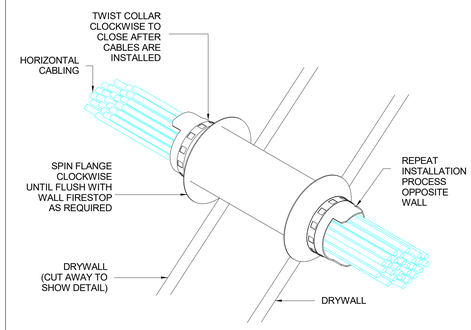


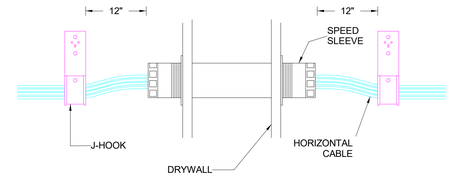
MULTIPLE PENETRATION DETAIL

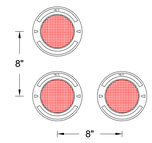
CP 653 2" SPEED SLEEVE (UL 1479)
CP 653 4" SPEED SLEEVE (UL 1479)

SYSTEM NO. W-J-3167 F RATING — 2 HR T RATINGS — 0, 1, 1-3/4 AND 2 HR L RATINGS AT AMBIENT — LESS THAN 1 CFM/SQ FT, 5 CFM/SQ FT AND 9 CFM/SQ FT, OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT (SEE ITEM 2) L RATING AT 400F — LESS THAN 1 CFM/SQ FT, 1 CFM/SQ FT AND 10 CFM/SQ FT , OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT

HILTI SPEED FIRE STOP SLEEVE PATHWAY WITH SNAKE TRAY DETAIL — 1
No Scale





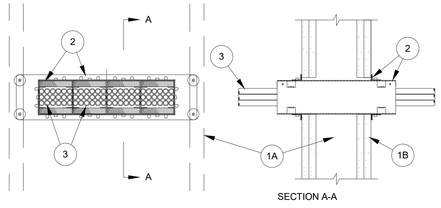


MULTIPLE PENETRATION DETAIL

CP 653 2" SPEED SLEEVE (UL 1479)
CP 653 4" SPEED SLEEVE (UL 1479)

SYSTEM NO. W-J-3167 F RATING — 2 HR T RATINGS — 0, 1, 1-3/4 AND 2 HR L RATINGS AT AMBIENT — LESS THAN 1 CFM/SQ FT, 5 CFM/SQ FT AND 9 CFM/SQ FT, OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT (SEE ITEM 2) L RATING AT 400F — LESS THAN 1 CFM/SQ FT, 1 CFM/SQ FT AND 10 CFM/SQ FT , OR LESS THAN 1 CFM/UNIT AND 1 CFM/UNIT

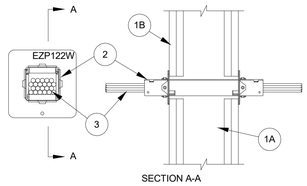
HILTI SPEED FIRE STOP SLEEVE PATHWAY WITH J-HOOK DETAIL — 2
No Scale



SECTION A-A

1A	WALL FRAMING
1B	FIREWALL
2	EZ PATH SLEEVE (UL 1479) (PART NUMBER AS INDICATED)
3	HORIZONTAL OR BACKBONE CABLES
*	ALL EZ PATH DEVICES SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS

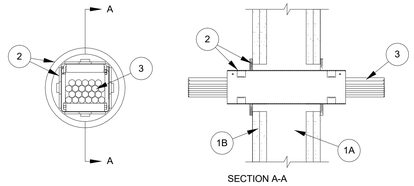
EZ-PATH FIRESTOP SLEEVE PATHWAY SYSTEM NO. W-L-2390 DETAIL — 3
No Scale



SECTION A-A

1A	WALL FRAMING
1B	FIREWALL
2	EZ PATH SLEEVE (UL 1479) (PART NUMBER AS INDICATED)
3	HORIZONTAL OR BACKBONE CABLES
*	ALL EZ PATH DEVICES SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS

EZ-PATH FIRESTOP SLEEVE PATHWAY SYSTEM NO. W-L-3255 DETAIL — 4
No Scale



SECTION A-A

1A	WALL FRAMING
1B	FIREWALL
2	EZ PATH SLEEVE (UL 1479) (PART NUMBER AS INDICATED)
3	HORIZONTAL OR BACKBONE CABLES
*	ALL EZ PATH DEVICES SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS

EZ-PATH FIRESTOP SLEEVE PATHWAY SYSTEM NO. W-L-3265 DETAIL — 5
No Scale

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SHEET TITLE

TECHNOLOGY - DETAILS

SHEET NUMBER
BLDG1-T905

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