

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

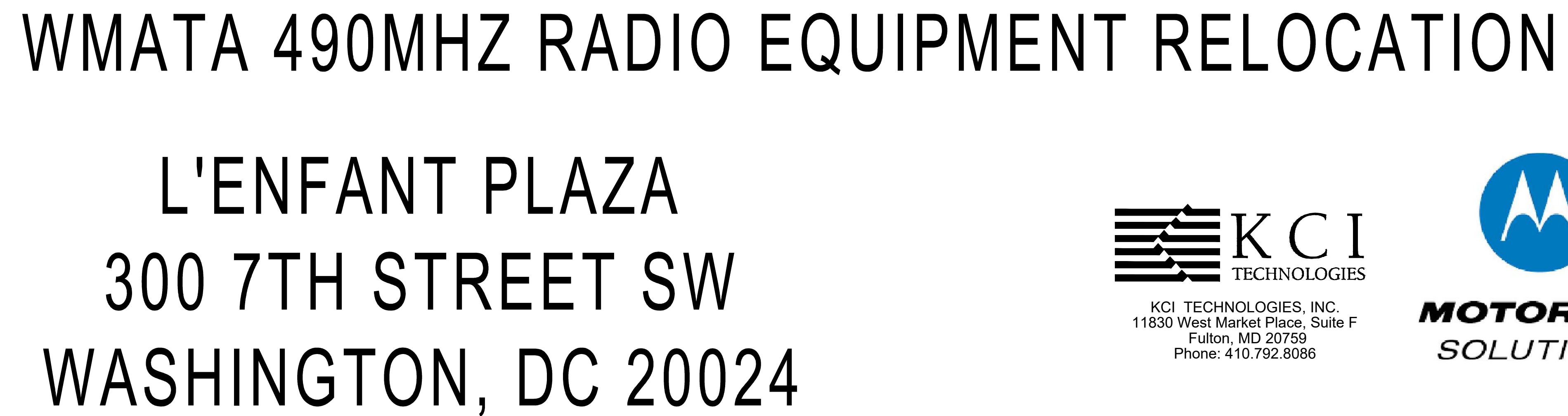


WMATA 490 MHZ RADIO EQUIPMENT RELOCATION AT L'ENFANT PLAZA

VOLUME 1: CIVIL AND SITE ZONING DRAWINGS
SITE DESIGN
COVER SHEET

CONTRACT WMATA-LTR-22-001
DEPARTMENT OF COMMUNICATIONS AND SIGNALING

<div>DESIGN LEAD</div> <div>MOTOROLA SOLUTIONS 809 PINNACLE DRIVE SUITE G LINTHICUM HEIGHTS, MD 21090 (410) 712-6200</div>	<div>CIVIL</div> <div>MOTOROLA SOLUTIONS 809 PINNACLE DRIVE SUITE G LINTHICUM HEIGHTS, MD 21090 (410) 712-6200</div>	<div>STRUCTURAL</div> <div></div>	<div>EQUIPMENT</div> <div></div>	<div>PLUMBING</div> <div></div>	<div>ELECTRICAL</div> <div>KCI TECHNOLOGIES, INC 11830 WEST MARKET PLACE SUITE F FULTON, MD 20759 (410) 792-8086</div>	<div>LEED</div> <div></div>
<div>HAZARDOUS MATERIALS</div> <div></div>	<div>LANDSCAPE</div> <div></div>	<div>ARCHITECTURAL/ENGINEER</div> <div>KCI TECHNOLOGIES, INC 11830 WEST MARKET PLACE SUITE F FULTON, MD 20759 (410) 792-8086</div>	<div>FIRE PROTECTION</div> <div></div>	<div>MECHANICAL</div> <div></div>	<div>TELECOMMUNICATION</div> <div></div>	<div>GEOTECHNICAL</div> <div></div>



DESIGNED BY: JW 10/15/24		REFERENCE DRAWINGS		REVISONS		 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF COMMUNICATIONS AND SIGNALING		WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024		SHEET # G0001 SHEET TITLE GENERAL INFORMATION	
DRAWN BY: JW 10/15/24		NUMBER	TITLE	NO.	DATE			DESCRIPTION	M NO.	CONTRACT NO.	SCALE:
CHECKED BY: GT 10/15/24				0	9/17/24	ZONING DRAWINGS SUBMISSION	FQ	WMATA-LTR-22-001	AS NOTED	192400795B	
APPROVED BY: GT 10/15/24				1	11/20/24	ZONING DRAWINGS SUBMISSION				WMATA JOB NUMBER:	
				2	11/22/24	ZONING DRAWINGS SUBMISSION				WM700 AG.BF.G001.G0001	
							APPROVED _____ DATE _____ JOHN C. HOFBAUER ENGINEER OF RECORD		APPROVED _____ DATE _____ ALLEN WONDER PROJECT MANAGER		

SECTION 01000 – GENERAL REQUIRMENTS (CONTINUED)



SITE NOTES

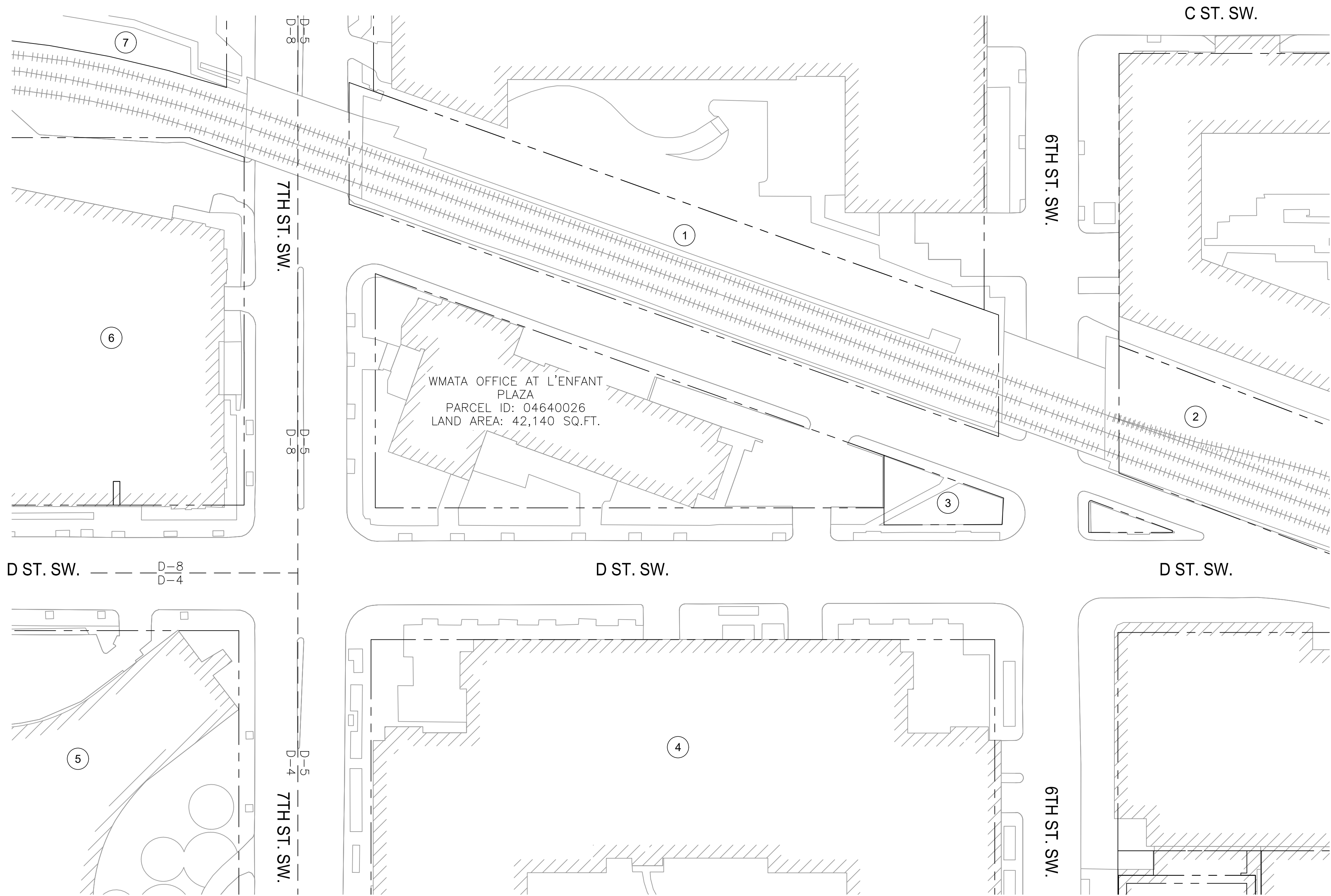
1. APPLICANT/OWNER:

WMATA
CONTACT: ALLEN WONDER
300 7TH STREET SW
WASHINGTON, DC 20024
2. SITE DATA:

PARCEL #.: 0464 0026
WATER DESIGNATION: CITY
SEWER DESIGNATION: CITY
ELECTION DISTRICT: 01
SITE AREA: 0.97 AC.
SITE ADDRESS: 300 7TH STREET SW
WASHINGTON, DC 20024
3. EXISTING USE:

COMMERCIAL OFFICE BUILDING/TELECOMMUNICATION FACILITY
4. ZONING OF SITE IS D-5 (DOWNTOWN)

PROPOSED USE: COMMERCIAL OFFICE BUILDING/TELECOMMUNICATION FACILITY



1 CONSOLIDATED RAIL CORPORATION
500 WATER ST.
JACKSONVILLE, FL 32202
TAX LOT: 0463S 0805
ZONING: D-5
0.91 AC

2 CONSOLIDATED RAIL CORPORATION
500 WATER ST.
JACKSONVILLE, FL 32202
TAX LOT: 0493 0804
ZONING: D-5
1.15 AC

3 UNITED STATES OF AMERICA
NATIONAL PARKS
TAX LOT: RES 01150000
ZONING: D-4
0.09 AC

4 CC OWNER LLC.
600 13TH ST. NW STE. 700
WASHINGTON, DC 20005
TAX LOT: 0465 0096
ZONING: D-5
5.41 AC

5 UNITED STATES OF AMERICA
TAX LOT: 0435 0060
ZONING: D-4
0.55 AC

6 UNITED STATES OF AMERICA
TAX LOT: 0434 0812
ZONING: D-8
1.54 AC

7 WMATA
TAX LOT: RES 01130000
ZONING: D-8
2.82 AC

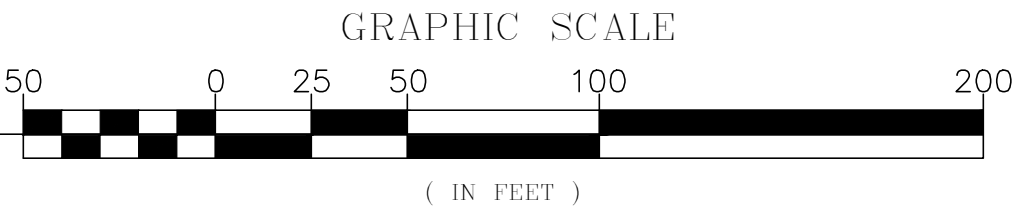


KCI TECHNOLOGIES, INC.
11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086

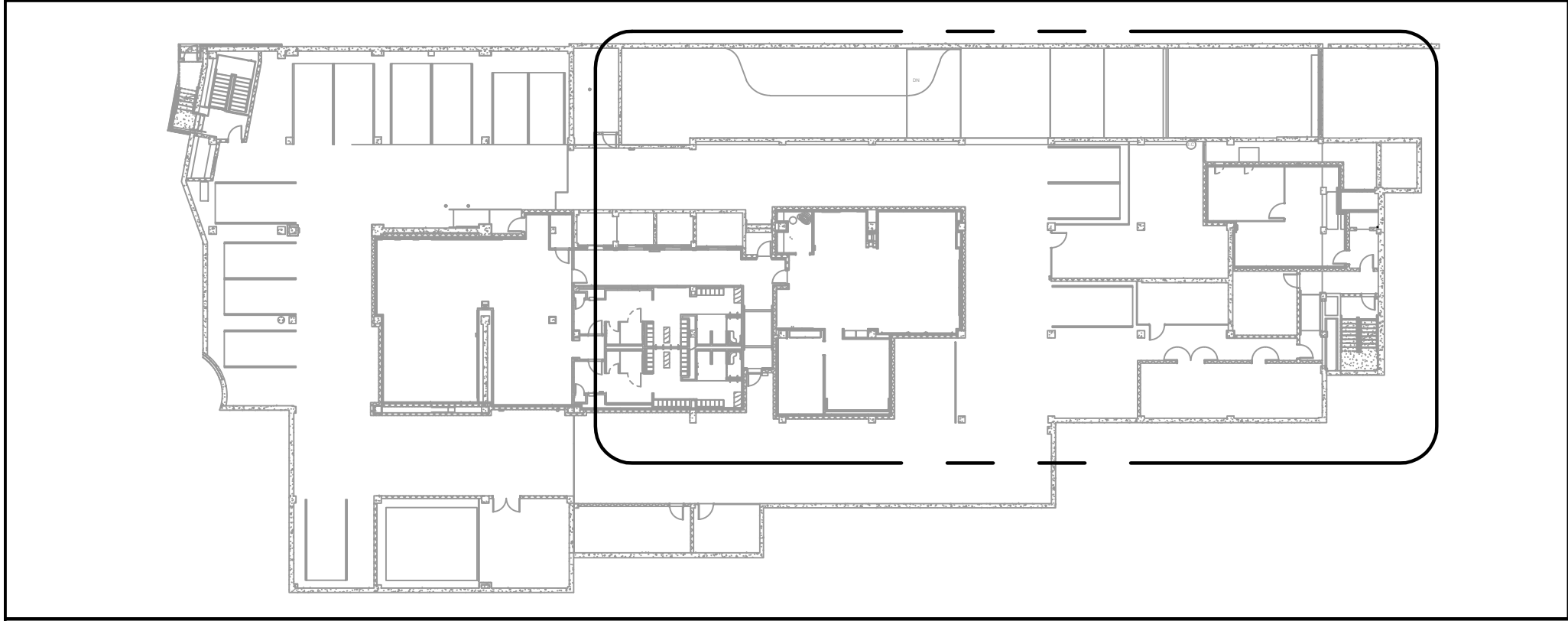


PARCEL - ZONING PLAN

SCALE: 1"=50'



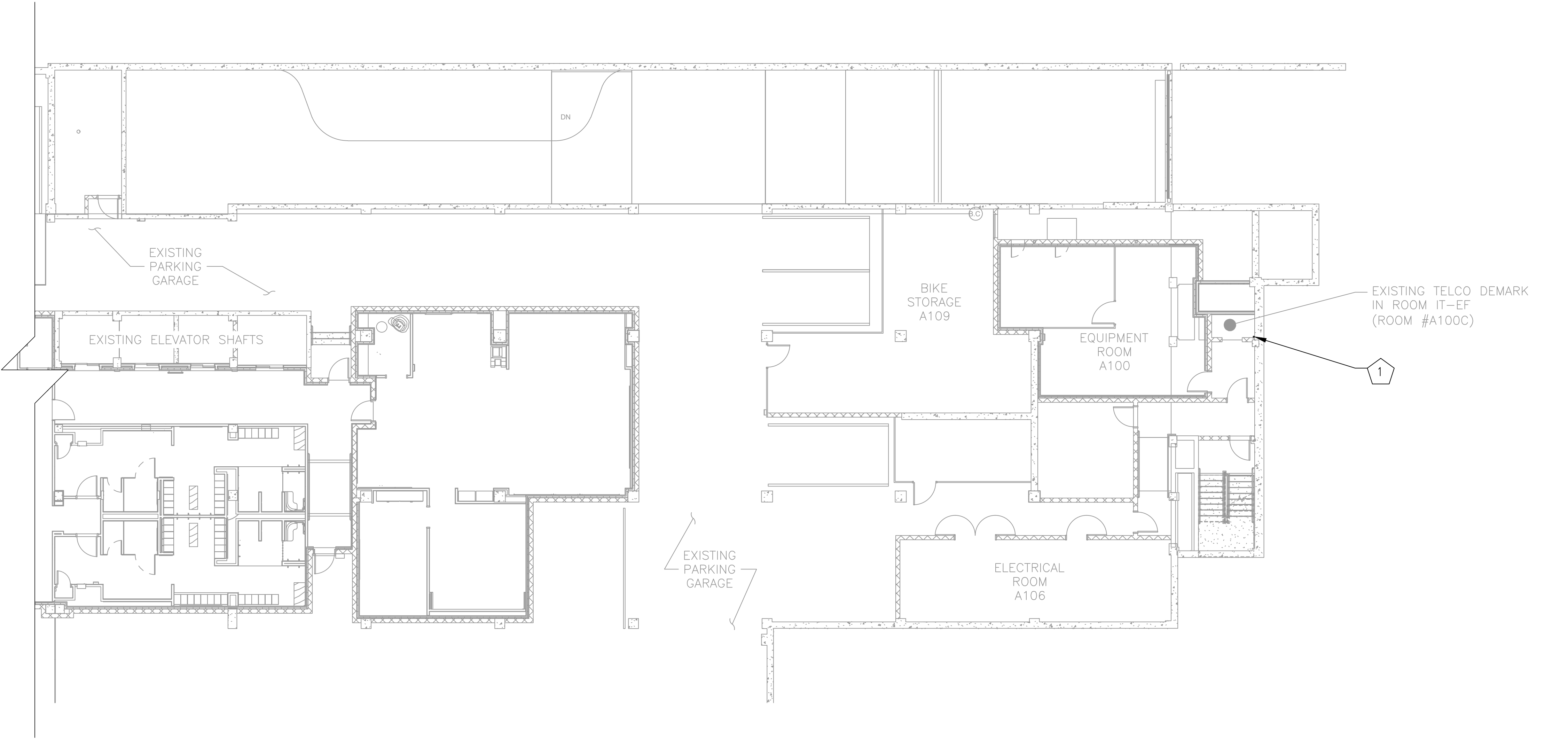
DESIGNED BY: JW 10/15/24 DRAWN BY: JW 10/15/24 CHECKED BY: GT 10/15/24 APPROVED BY: GT 10/15/24	REFERENCE DRAWINGS		REVISIONS		<div><div>M</div><div>metro</div></div> <div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div> <div>DEPARTMENT OF COMMUNICATIONS AND SIGNALING</div> <div>APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD</div> <div>DATE</div> <div>APPROVED ALLEN WONDER PROJECT MANAGER</div> <div>DATE</div>	WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0001
	NUMBER	TITLE	NO.	DATE	DESCRIPTION					SHEET TITLE OVERALL PARCEL PLAN
			0	9/17/24	ZONING DRAWINGS SUBMISSION					
			1	11/20/24	ZONING DRAWINGS SUBMISSION					
			2	11/22/24	ZONING DRAWINGS SUBMISSION					
						M NO.	CONTRACT NO.	SCALE:	KCI JOB NUMBER:	5 OF 35
						FQ	WMATA-LTR-22-001	AS NOTED	1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	



A1 FLOOR - KEY PLAN

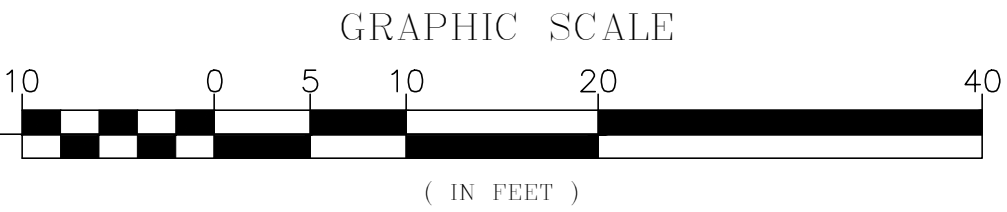
NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.



A1 FLOOR PLAN - ROUTING PLAN

SCALE: 1' = 10'



DCRA

GENERAL NOTES

1. THE LOCATION, SIZE & TYPE OF MATERIAL OF EXISTING UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS & SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION & ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES & THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION.
2. ALL NEW CONSTRUCTION ACTIVITIES & MODIFICATIONS SHALL COMPLY WITH MOTOROLA R-56 STANDARDS, (2005).
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA OF CONSTRUCTION THAT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND WMATA REQUIREMENTS.
5. THE CONTRACTOR IS RESPONSIBLE FOR SITE LAYOUT AND CONSTRUCTION STAKING. LOCATION OF EXISTING STRUCTURES AND UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR.
6. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES.
7. THE INDICATED DIRECTION OF NORTH SHALL BE VERIFIED IN THE FIELD.
8. FOR SIGNAGE IN EQUIPMENT ROOM, REFER TO SIGNAGE NOTES, SHEET G0003.

NOTES – NEW WORK

- GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.
- 1 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. FROM FLOOR A-1 TO 1ST FLOOR. LOCATED IN CEILING ON THE EAST SIDE OF FIBER ROOM. REFER TO DETAIL SHEET C0501.



KCI TECHNOLOGIES, INC.
11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086



MOTOROLA SOLUTIONS

DESIGNED BY:	JW	10/15/24	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	TITLE	NO.	DATE	DESCRIPTION
DRAWN BY:	JW	10/15/24			0	9/17/24	ZONING DRAWINGS SUBMISSION
					1	11/20/24	ZONING DRAWINGS SUBMISSION
CHECKED BY:	GT	10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION
APPROVED BY:	GT	10/15/24					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

SCALE:
AS NOTED

KCI JOB NUMBER:
1924007959
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

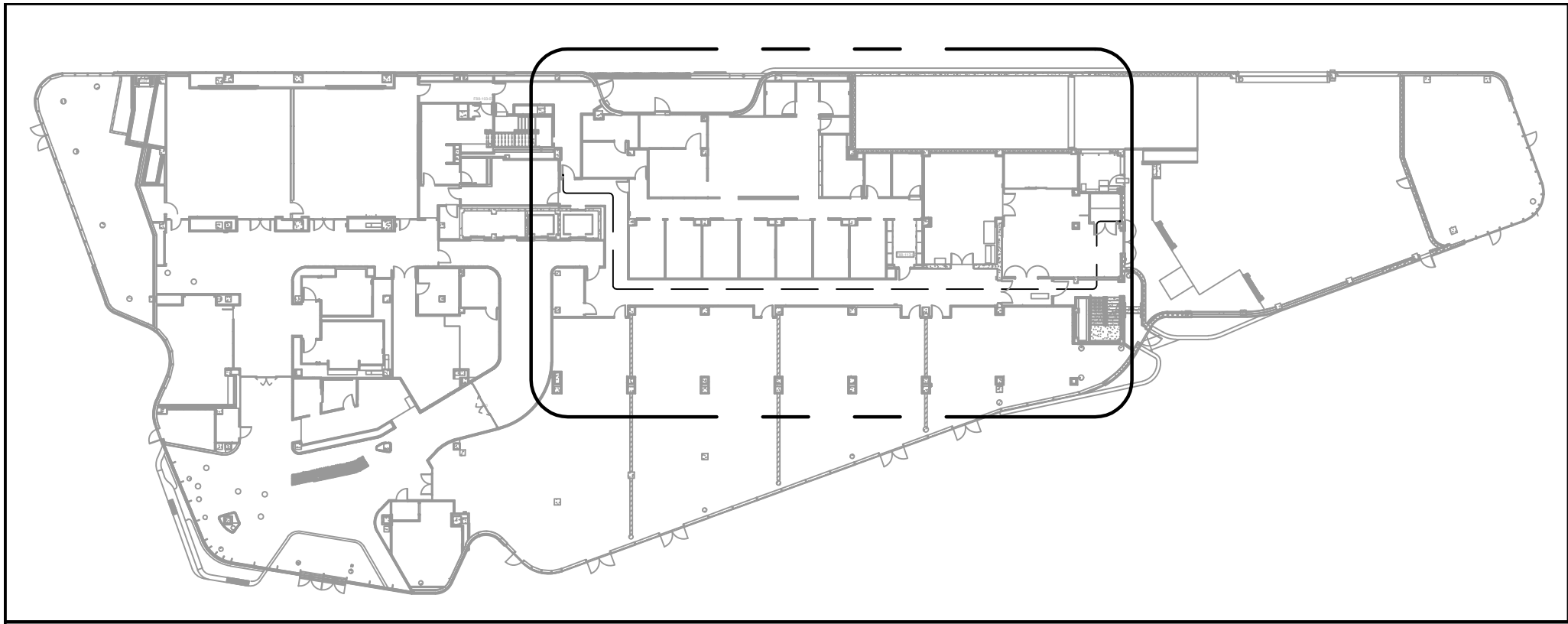
SHEET #

C0101

SHEET TITLE

A-1 FLOOR PLAN

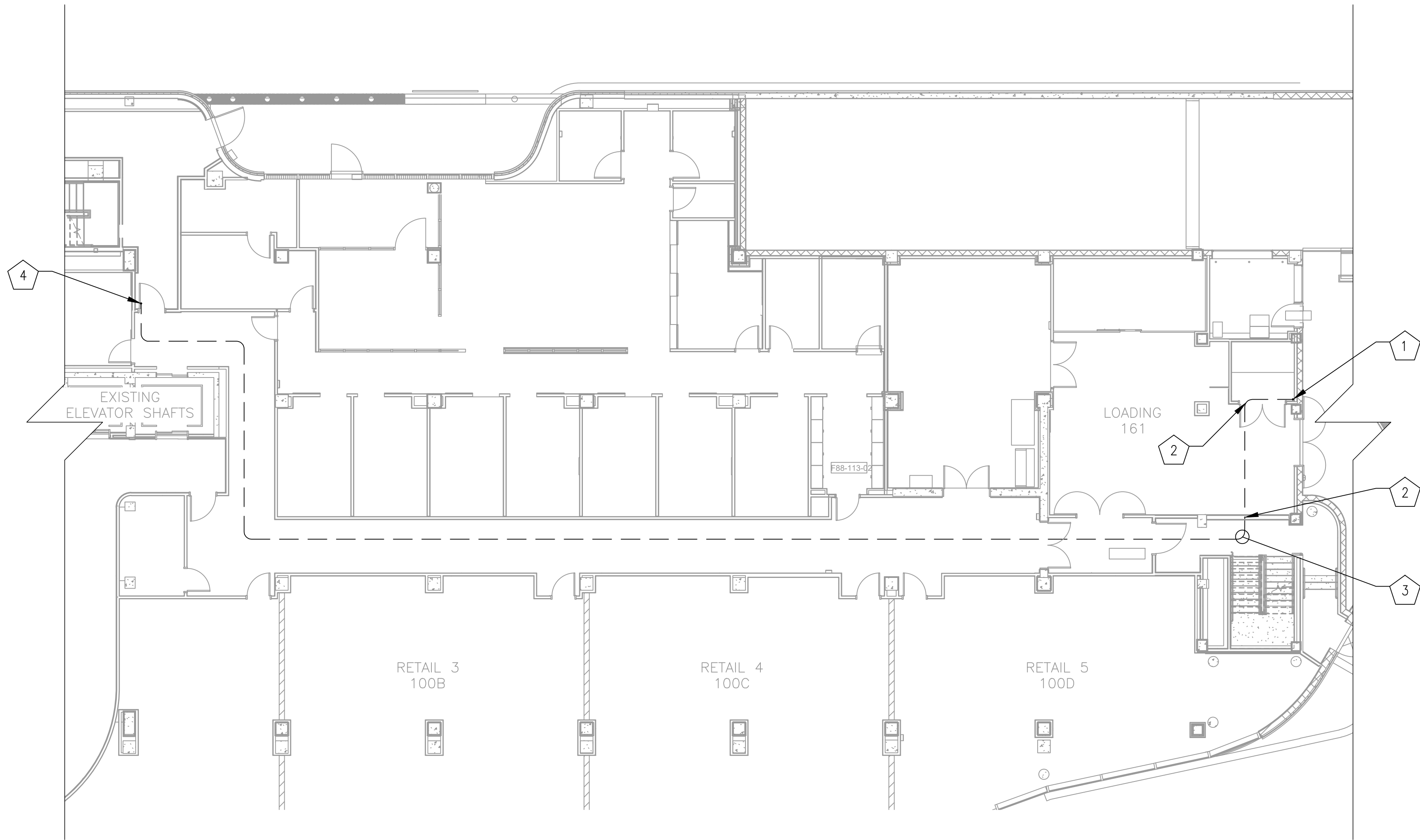
6 OF 35



NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

1ST FLOOR - KEY PLAN

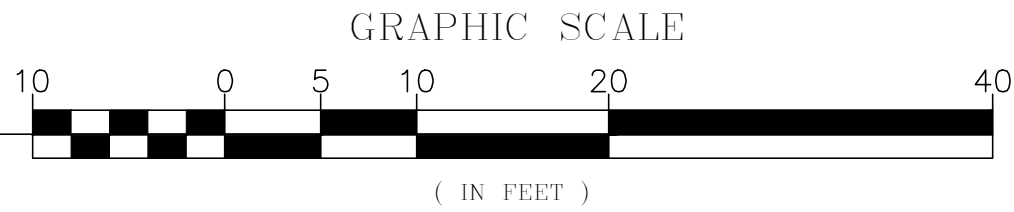


- NOTES — NEW WORK
- GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.
- 1 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. FROM FLOOR A-1 TO 1ST FLOOR. LOCATED IN CEILING ON THE EAST SIDE OF FIBER ROOM. REFER TO DETAIL SHEET C0501.
 - 2 PROPOSED FIRE PROOF NON METALLIC SLEEVED WALL PENETRATION THROUGH WALL TO HALLWAY. REFER TO SHEET C0501 FOR DETAIL.
 - 3 (2) 24-STRAND FIBER ARMORED LINES TO BE ROUTED IN DROP DOWN CEILING ALONG 1ST FLOOR HALLWAY.
 - 4 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. FROM 1ST FLOOR TO 7TH FLOOR. REFER TO DETAIL SHEET C0501.
 - 5 PROPOSED FIRE PROOF NON METALLIC SLEEVED WALL PENETRATION THROUGH WALL TO LOADING ROOM 161. REFER TO SHEET C0501 FOR DETAIL.



1ST FLOOR - ROUTING PLAN

SCALE: 1'=10'




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APPROVED BY: GT 10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0102	
M NO. FQ	CONTRACT NO. WMATA-LTR-22-001	SCALE: AS NOTED	KCI JOB NUMBER: 1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	SHEET TITLE 1ST FLOOR PLAN	
				7 OF 35	

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

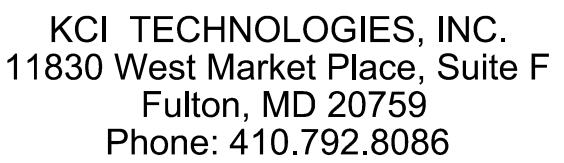
PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND
ARMORED FIBER LINES IN FIRE PROOF NON METALLIC
SLEEVE. FROM 1ST FLOOR TO 7TH FLOOR.
REFER TO DETAIL SHEETS C0501 AND C0502.

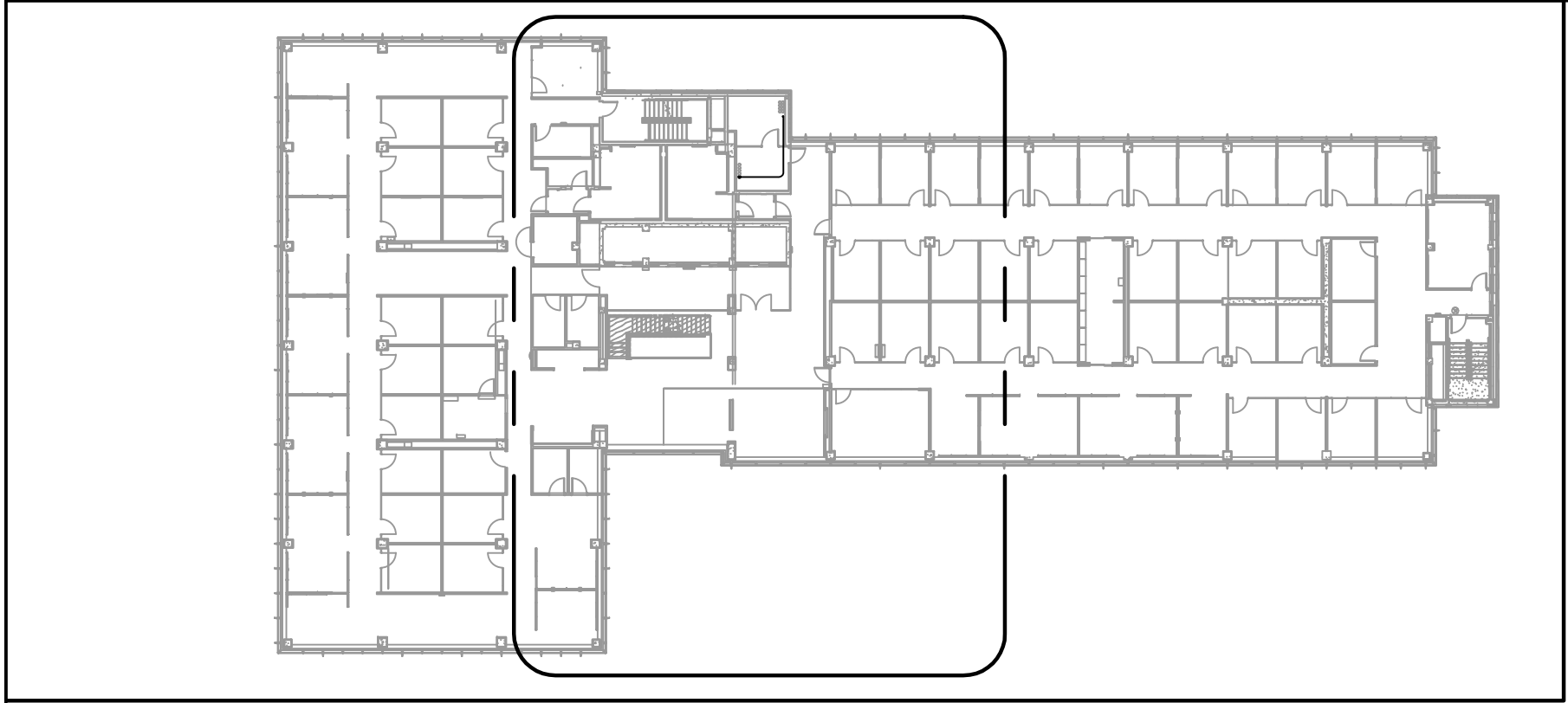


NOTE:
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DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

GRAPHIC SCALE

(IN FEET)

[illegible]



7TH-8TH FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

NOTES – NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING
TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW,
UNLESS OTHERWISE NOTED.

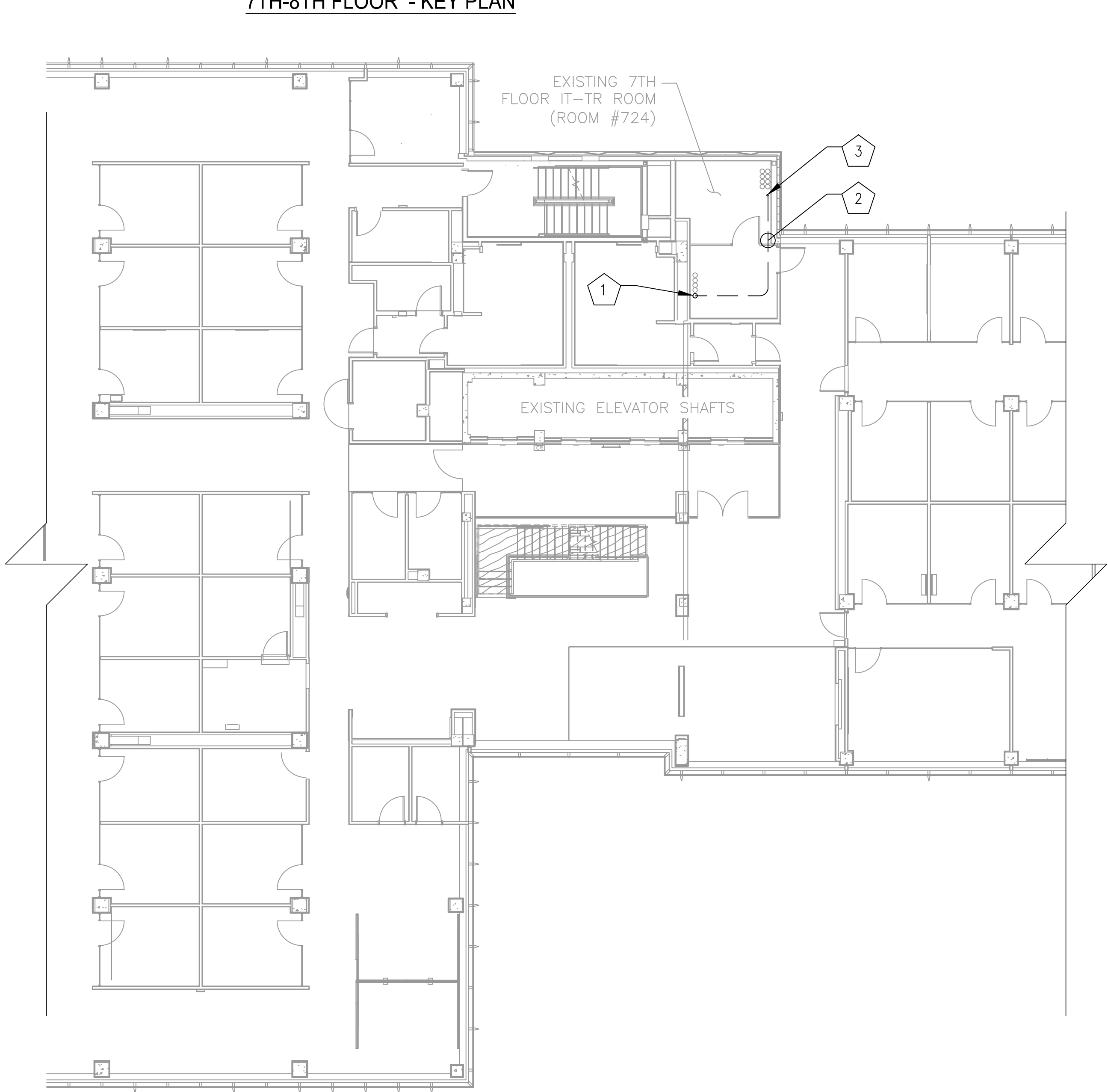
- 1

PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. FROM 1ST FLOOR TO 7TH FLOOR. REFER TO DETAIL SHEET C0501.
- 2

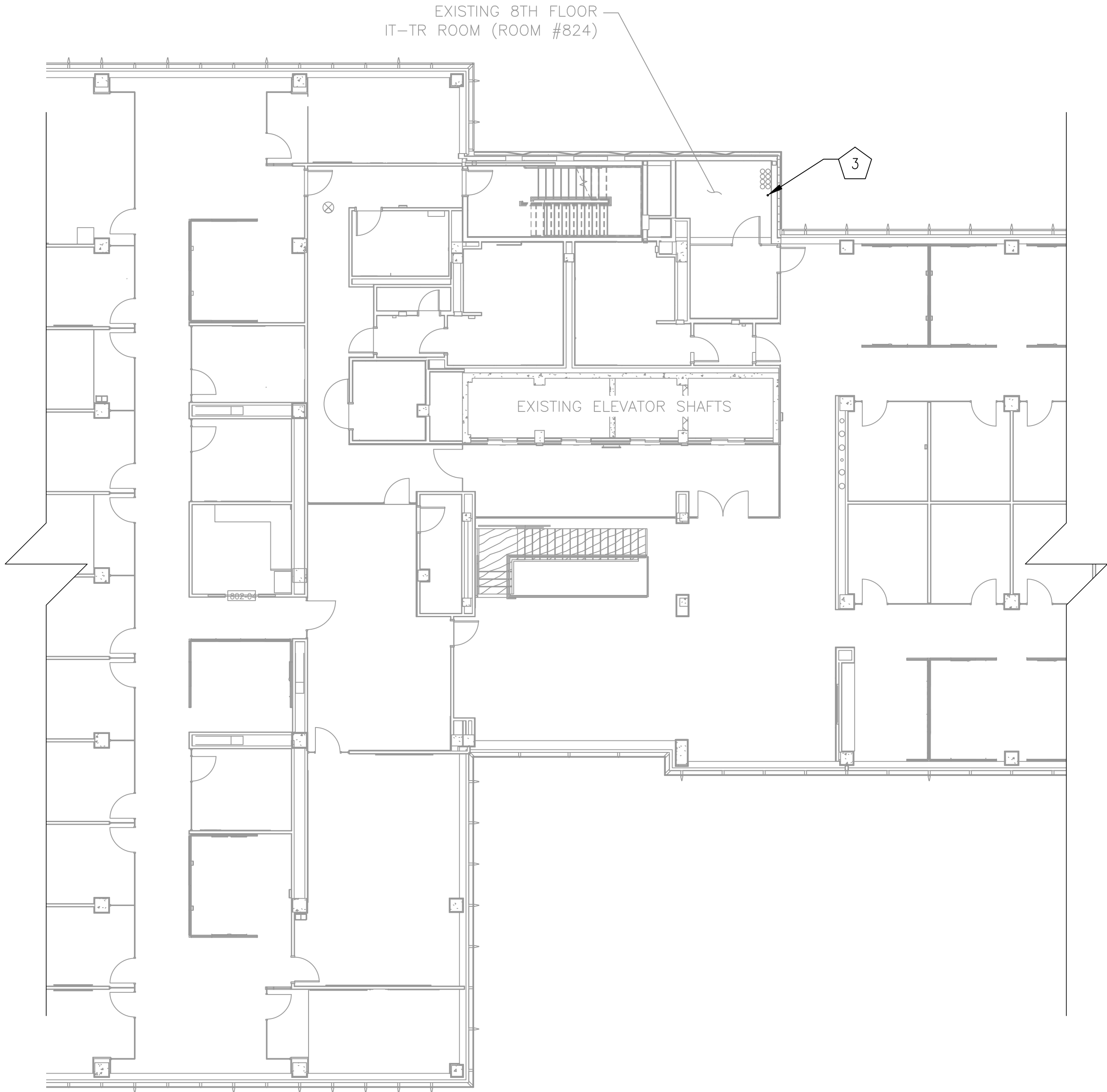
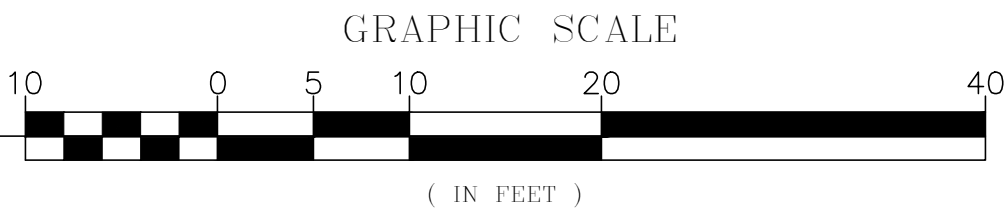
PROPOSED (2) 24-PAIR FIBER ARMORED LINES TO BE ROUTED ALONG WALL IN EXISTING CABLE TRAY TO CORE DRILL LOCATIONS IN ROOM 724.
- 3

PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. FROM 7TH FLOOR TO 9TH FLOOR. REFER TO DETAIL SHEET C0501.

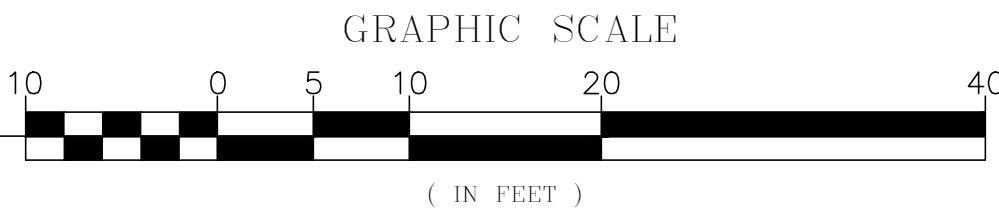
DCRA



7TH FLOOR - ROUTING PLAN
SCALE: 1"=10'



8TH FLOOR - ROUTING PLAN
SCALE: 1"=10'



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11830 West Market Place, Suite F
Fulton, MD 20759
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			NUMBER	TITLE	NO.	DATE	DESCRIPTION	
DRAWN BY:	JW	10/15/24			0	9/17/24	ZONING DRAWINGS SUBMISSION	
CHECKED BY:	GT	10/15/24			1	11/20/24	ZONING DRAWINGS SUBMISSION	
APPROVED BY:	GT	10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF COMMUNICATIONS AND SIGNALING

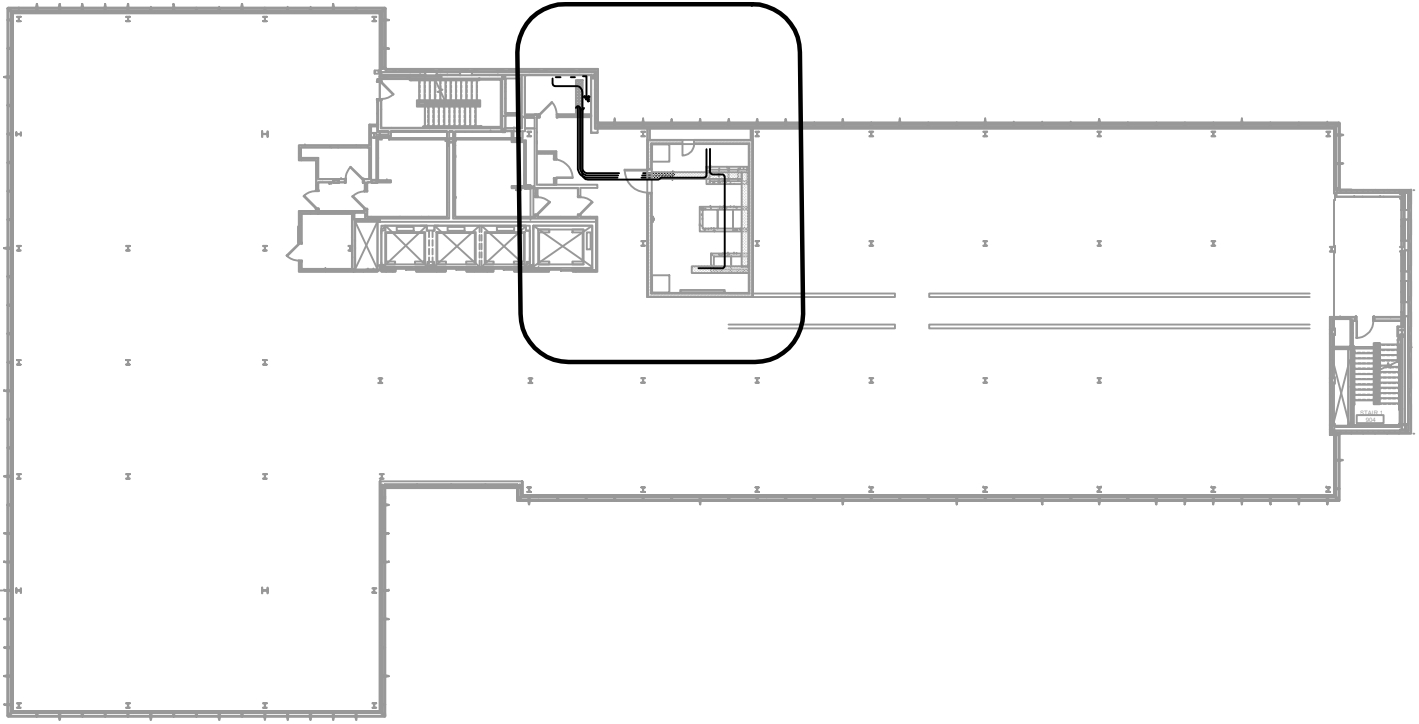
APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0104	
M NO. FQ	CONTRACT NO. WMATA-LTR-22-001	SCALE: AS NOTED	KCI JOB NUMBER: 1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	SHEET TITLE 7TH-8TH FLOOR PLAN	
				9 OF 35	

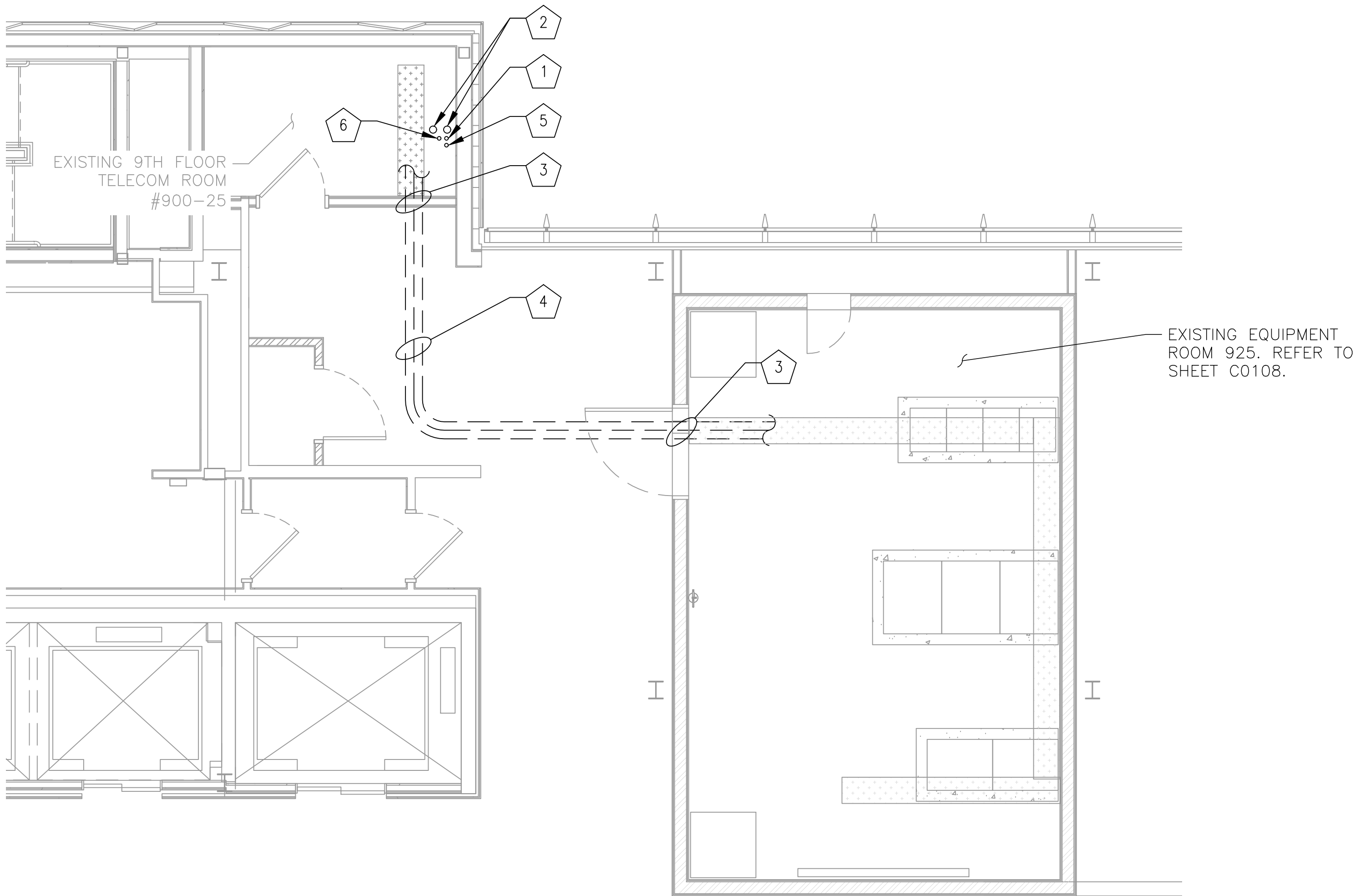


NOTE:
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SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
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DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

DCRA

9TH FLOOR - KEY PLAN



- NOTES — NEW WORK
- GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

1

PROPOSED (1) 2" CORE DRILL UP FROM 8TH FLOOR IT-TR ROOM (ROOM #824). FOR (2) 24-STRAND ARMORED FIBER LINES IN FIRE PROOF NON METALLIC SLEEVE. REFER TO DETAIL SHEET C0501.

2

PROPOSED (2) 4" CORE DRILLS FROM 9TH FLOOR TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR RF LINES TO PROPOSED ANTENNAS AND GPS. REFER TO DETAIL SHEET C0501.

3

PROPOSED TRANSIT FRAME THROUGH WALL TO HALLWAY. REFER TO SHEET C0503 FOR DETAIL.

4

PROPOSED LINES FROM EXISTING TELECOM ROOM TO EXISTING EQUIPMENT ROOM IN DROP DOWN CEILING.

RF LINES FROM ROOF DOWN TO 9TH FLOOR EQUIPMENT ROOM:
(3) 7/8" — 2 TRANSMIT, 1 RECEIVE
(1) 1/2" — MULTI COLOR
(2) 1/2" — FOR GPS

POWER LINE FROM ROOM 900-25 TO 925. REFER TO ELECTRICAL SHEETS FOR DETAIL.
(1) 2" — EMT CONDUIT

PROPOSED 1/0 GROUND LINE FROM EQUIPMENT ROOM TO 12TH FLOOR ELECTRICAL ROOM. REFER TO GROUNDING SHEETS FOR DETAIL.

FIBER ROUTED FROM A1 FIBER DEMARK UP TO 9TH FLOOR EQUIPMENT ROOM:
(2) 24 STRAND-FIBER LINES

5

PROPOSED (1) 1" CORE DRILL FROM 9TH FLOOR TELCO ROOM 900-25 TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR GROUND LINE TO PRINCIPLE GROUND BAR.REFER TO DETAIL SHEET C0501.

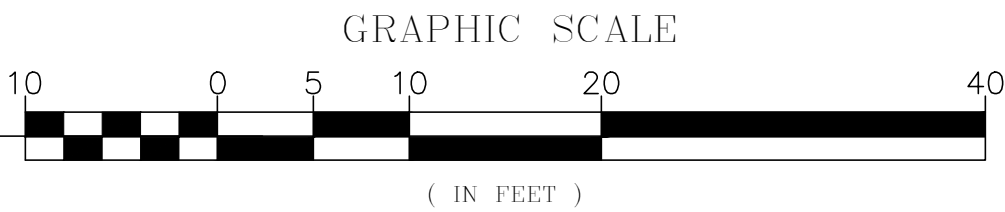
6

PROPOSED (1) 2" CORE DRILL FROM 9TH FLOOR TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR PROPOSED POWER LINE. REFER TO DETAIL SHEET C0501.



9TH FLOOR - ROUTING PLAN

SCALE: 1' = 10'

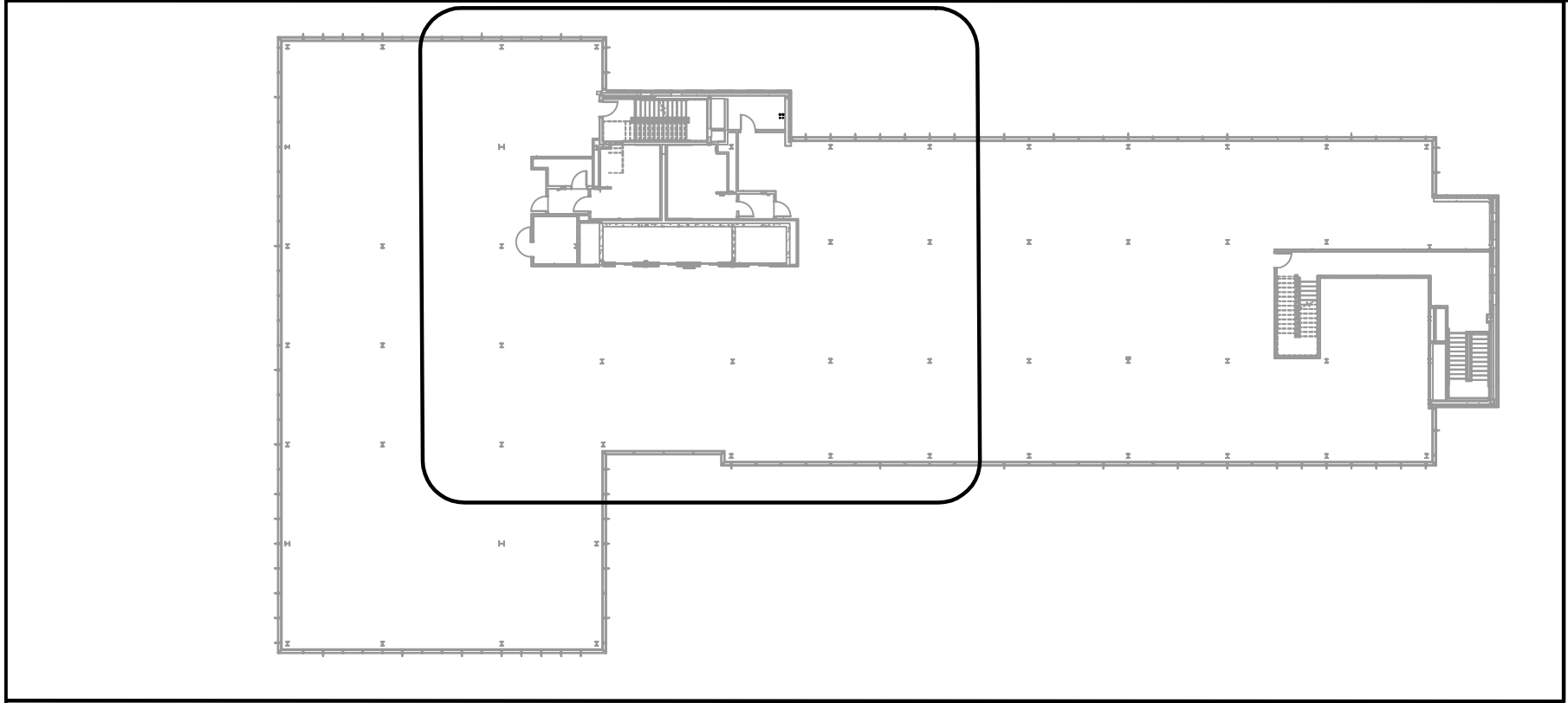


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MOTOROLA SOLUTIONS

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	NUMBER	TITLE	NO.	DATE	DESCRIPTION		C0105					
			0	9/17/24	ZONING DRAWINGS SUBMISSION		SHEET TITLE					
			1	11/20/24	ZONING DRAWINGS SUBMISSION		9TH FLOOR PLAN					
			2	11/22/24	ZONING DRAWINGS SUBMISSION							
					M NO.	CONTRACT NO.	SCALE:	KCI JOB NUMBER:	10 OF 35			
					FQ	WMATA-LTR-22-001	AS NOTED	192400795B WMATA JOB NUMBER: WM700.AG.RF.09B.G0001				



10TH FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
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NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
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DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

DCRA

NOTES — NEW WORK

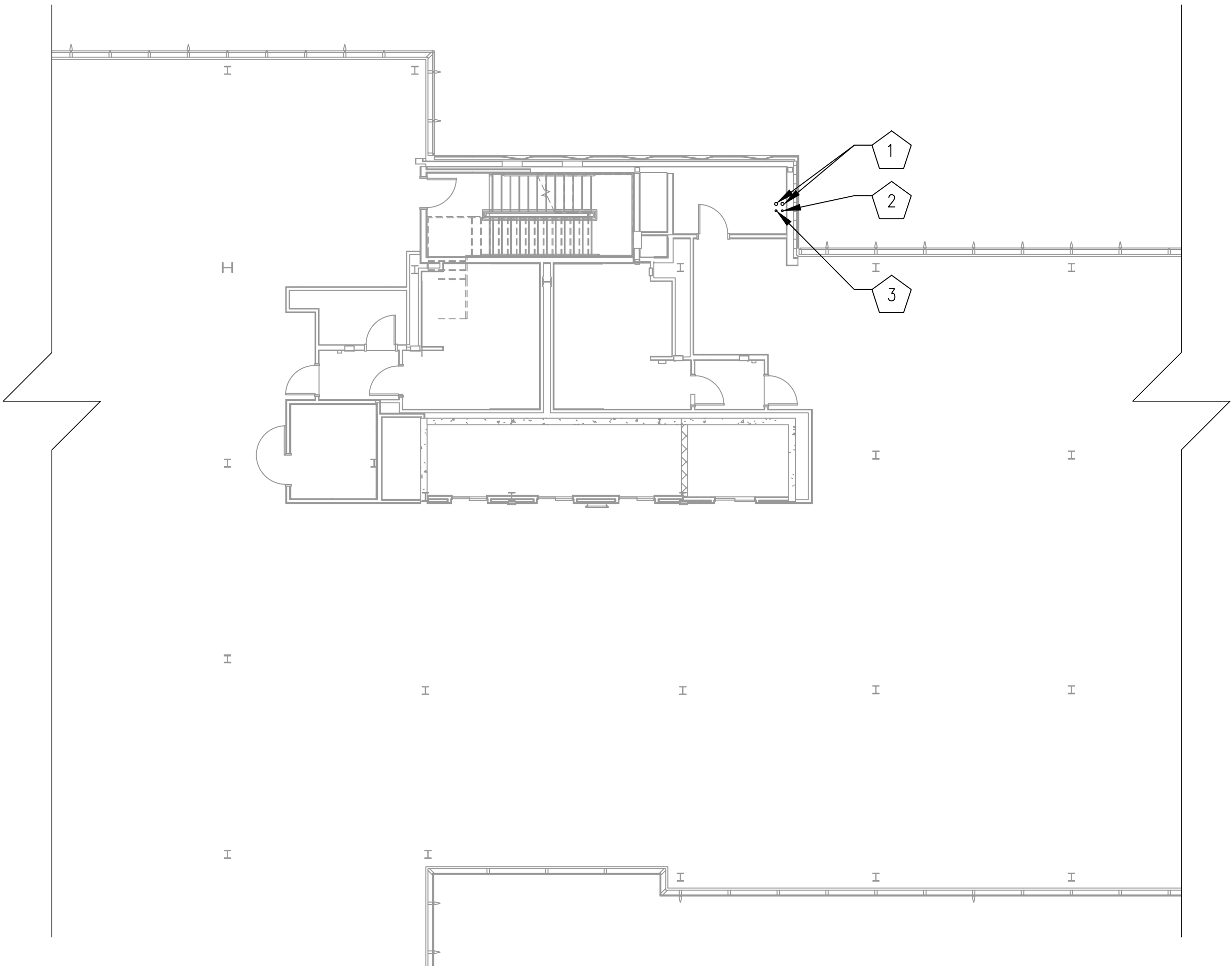
GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

- 1

PROPOSED (2) 4" CORE DRILLS FROM 9TH FLOOR TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR RF LINES TO PROPOSED ANTENNAS AND GPS. REFER TO DETAIL SHEET C0501.
- 2

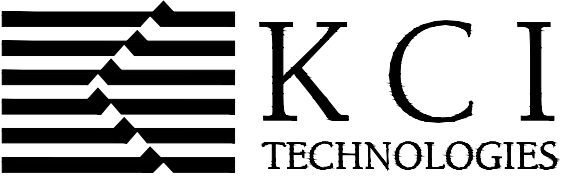
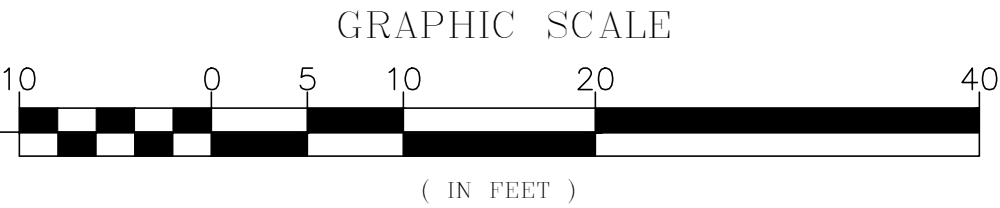
PROPOSED (1) 1" CORE DRILL FROM 9TH FLOOR TELCO ROOM 900-25 TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR GROUND LINE TO PRINCIPLE GROUND BAR. REFER TO DETAIL SHEET C0501.
- 3

PROPOSED (1) 2" CORE DRILL FROM 9TH FLOOR TO 12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR PROPOSED POWER LINE. REFER TO DETAIL SHEET C0501.



10TH-11TH FLOOR - ROUTING PLAN

SCALE: 1' = 10'



KCI TECHNOLOGIES, INC.
11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086



MOTOROLA SOLUTIONS

DESIGNED BY:	JW	10/15/24	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	TITLE	NO.	DATE	DESCRIPTION
DRAWN BY:	JW	10/15/24			0	9/17/24	ZONING DRAWINGS SUBMISSION
					1	11/20/24	ZONING DRAWINGS SUBMISSION
CHECKED BY:	GT	10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION
APPROVED BY:	GT	10/15/24					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

SCALE:
AS NOTED

KCI JOB NUMBER:
1924007959
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #

C0106

SHEET TITLE

10TH-11TH FLOOR PLANS

11 OF 35

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

PENTHOUSE FLOOR - KEY PLAN

EXISTING VOID SPACE IN PENTHOUSE

EXISTING LOWER ROOF

EXISTING LOWER ROOF

EXISTING PENTHOUSE ELECTRICAL ROOM (ROOM#1205)

IT-TR ROOM 1240

ELEV. A
ELEV. B
EXISTING ELEVATOR SHAFTS
ELEV. C
ELEV. D

1
2
3
4
5
6
7
8
9

E

The key plan illustrates the layout of the Penthouse Floor. It features a central corridor system with elevators labeled ELEV. A, ELEV. B, ELEV. C, and ELEV. D, along with existing elevator shafts. To the right, there is an existing penthouse electrical room (Room #1205) and an IT-TR room (Room 1240). The plan also shows existing lower roof areas and void spaces. Numbered callouts (1-9) identify specific features and areas of interest. The plan is oriented with North at the top.

1 APPROXIMATE LOCATION OF ELECTRICAL PANEL. REFER TO SHEET E0101 FOR DETAIL.

2 2" PROPOSED EMT CONDUIT, TO BE ROUTED IN DROP DOWN CEILING FROM EXISTING PENTHOUSE ELECTRICAL ROOM TO VOID SPACE CORE DRILL. REFER TO SHEET C0502 FOR DETAIL.
NOTE: 1/0 GROUND TO BE RUN ALONG SIDE PROPOSED POWER REFER TO GROUNDING SHEETS FOR MORE INFORMATION.

3 PROPOSED CORE DRILL FOR (1) 2" CONDUIT FROM 12TH FLOOR PENTHOUSE ELECTRICAL ROOM (ROOM #1216) TO CORE DRILL IN VOID SPACE. REFER TO DETAIL SHEET C0501. NOTE: (1) 1" EMT CONDUIT WILL NEED A CORE DRILL FOR GROUNDING PATH. REFER TO SHEET GR0102.

4 PROPOSED CORE DRILL FOR (2) 4" CORE DRILLS FOR RF LINES FROM VOID SPACE TO EXTERIOR OF BUILDING ON MAIN ROOF.

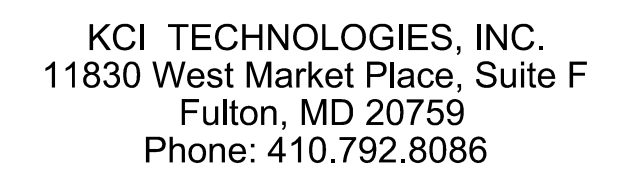
5 PROPOSED (2) 4" CORE DRILLS FROM 9TH FLOOR TO 12TH FLOOR PENTHOUSE. FOR RF LINES TO PROPOSED ANTENNAS AND GPS IN NON METALLIC SLEEVES. REFER TO DETAIL SHEET C0501.

6 PROPOSED (1) 1" CORE DRILL FROM 9TH FLOOR TELCO ROOM 900-25 TO 12TH FLOOR PENTHOUSE. FOR GROUND LINE TO PRINCIPLE GROUND BAR IN NON METALLIC SLEEVES. REFER TO GROUNDING SHEETS FOR DETAIL.

7 PROPOSED (1) 2" CORE DRILL FROM 12TH FLOOR PENTHOUSE TO 9TH FLOOR. FOR PROPOSED POWER LINE IN NON METALLIC SLEEVES. REFER TO DETAIL SHEET C0501.

8 PROPOSED PULL BOX ATTACHED TO WALL IN VOID SPACE.
NOTE: GROUNDING TO RUN THROUGH PULL BOX BEFORE HEADING DOWN TO 9TH FLOOR.

9 PROPOSED ACCESS PANEL IN EXISTING WALL OF STAIR WELL TO ACCESS VOID SPACE.



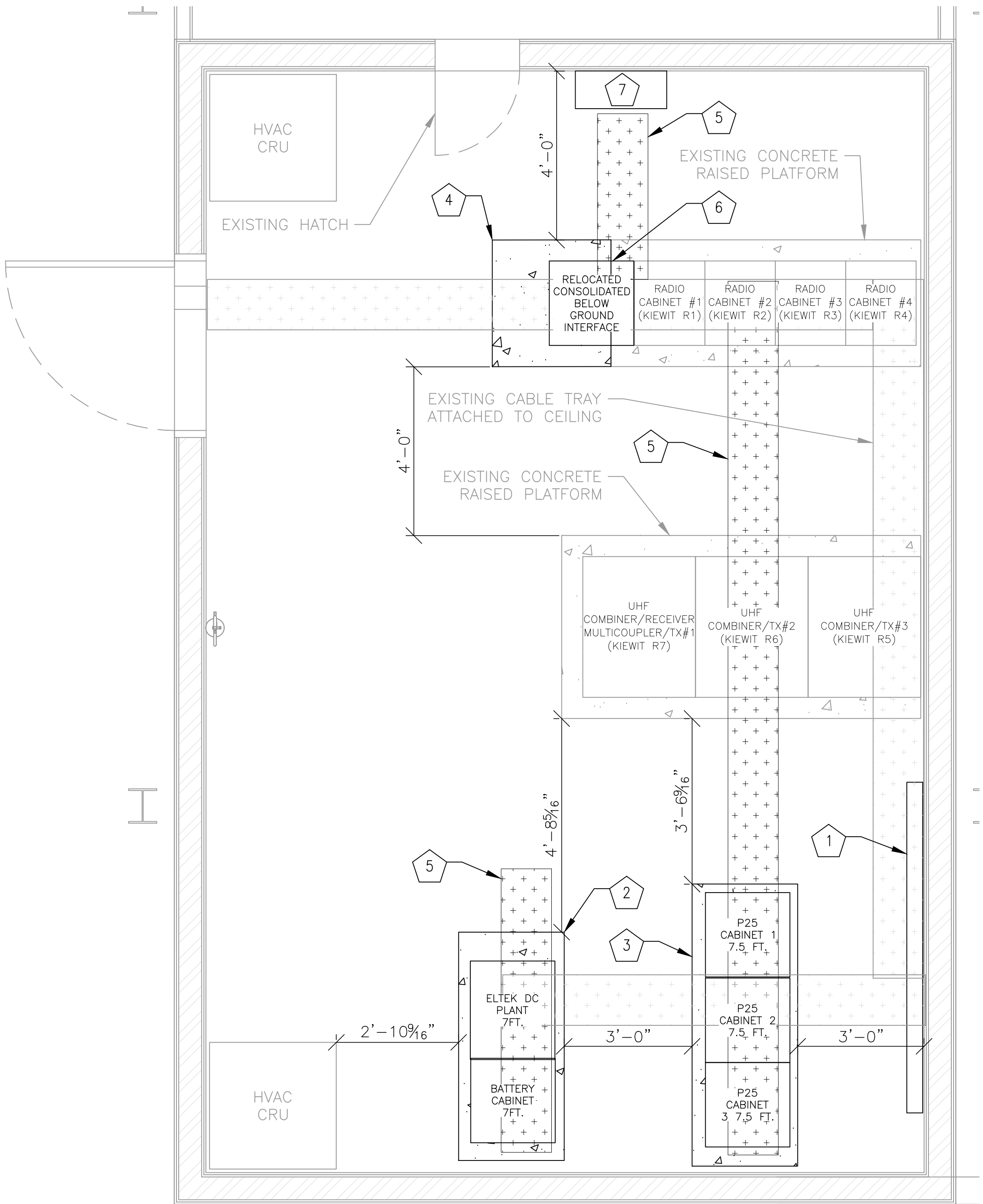
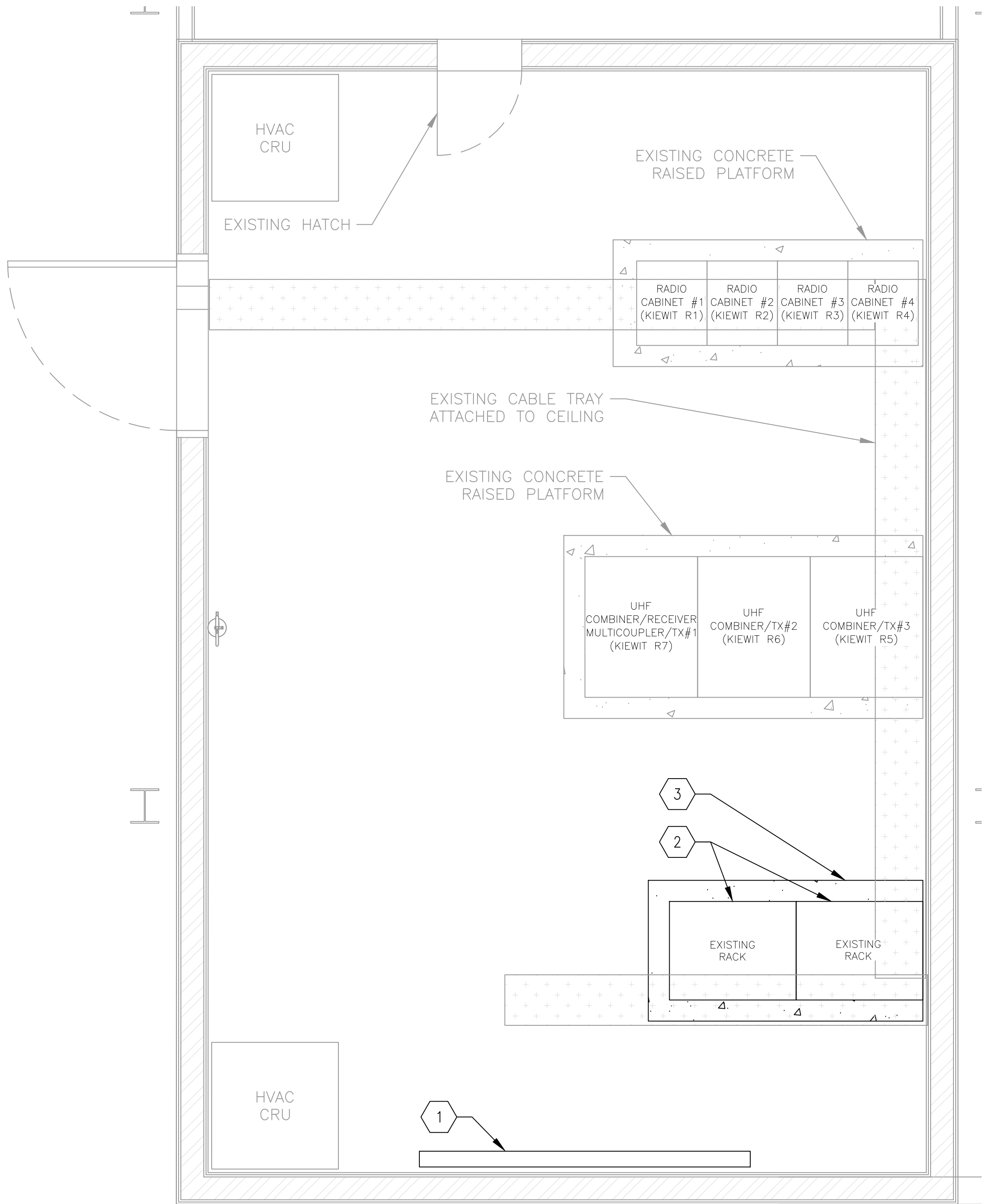
GRAPHIC SCALE

(IN FEET)

DESIGNED BY: JW 10/15/24		DATE		REFERENCE DRAWINGS		REVISIONS		<div><div><div>M</div><div>metrol</div></div><div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>DEPARTMENT OF COMMUNICATIONS AND SIGNALING</div></div></div>		<div><div>WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION</div><div>L'ENFANT PLAZA</div><div>300 7TH STREET SW</div><div>WASHINGTON, DC 20024</div></div>				SHEET #	
DRAWN BY: JW 10/15/24		DATE		NUMBER	TITLE	NO.	DATE							DESCRIPTION	C0107
CHECKED BY: GT 10/15/24		DATE				0	9/17/24	ZONING DRAWINGS SUBMISSION							
APPROVED BY: GT 10/15/24		DATE				1	11/20/24	ZONING DRAWINGS SUBMISSION							
						2	11/22/24	ZONING DRAWINGS SUBMISSION					12 OF 35		

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
REFER TO SHEET S0503 FOR CONCRETE PAD
DETAILS FOR PROPOSED EQUIPMENT ROOM.



NOTES – TO BE REMOVED

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE
WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES
SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS
OTHERWISE NOTED.

- 1 EXISTING TELCO BOARD TO BE RELOCATED
- 2 EXISTING RACK TO BE REMOVED AND
EQUIPMENT TO BE CONSOLIDATED.
(REFER TO PROPOSED NOTES FOR WHERE)
- 3 EXISTING CONCRETE RAISED PLATFORM TOO
BE REMOVED.

NOTES – PROPOSED WORK

- 1 RELOCATED TELCO BOARD
- 2 PROPOSED 2’-6”X5’-5” RAISED CONCRETE
PLATFORM. REFER TO SHEET S0503 FOR
DETAIL
- 3 PROPOSED 2’-6”X6’-8” RAISED CONCRETE
PLATFORM. REFER TO SHEET S0503 FOR
DETAIL
- 4 PROPOSED 2’-10”X3’-0” RAISED
CONCRETE PLATFORM. REFER TO SHEET
S0503 FOR DETAIL
- 5 PROPOSED CABLE TRAY (TYPICAL.) REFER
TO SHEET C0502 FOR DETAIL.
- 6 RELOCATED AND CONSOLIDATED RACK.
- 7 PROPOSED GEN-WM 250AMP PANEL
MOUNTED TO WALL IN EQUIPMENT ROOM
925. REFER TO SHEET ELECTRICAL SHEETS
FOR MORE INFORMATION.

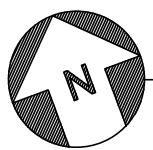
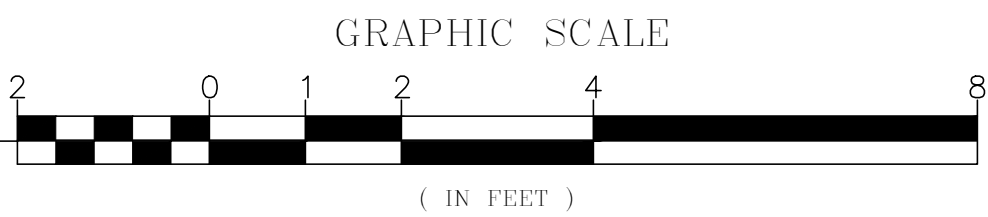


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9TH FLOOR - EXISTING EQUIPMENT ROOM PLAN

SCALE: 1’=2’



9TH FLOOR - PROPOSED EQUIPMENT ROOM PLAN

SCALE: 1’=10’



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

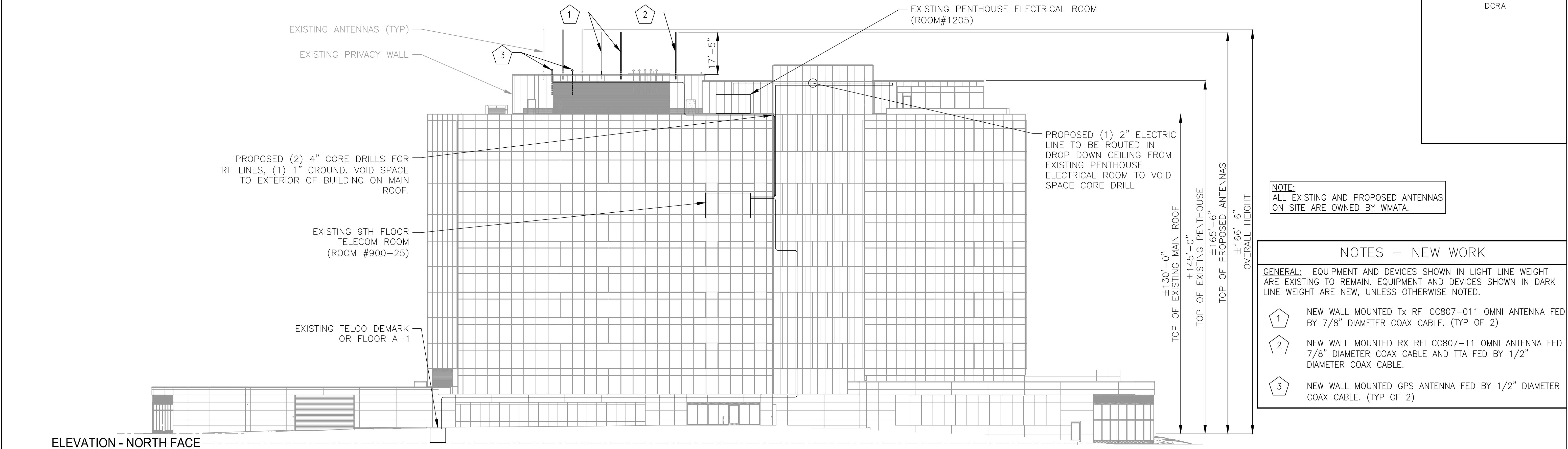
SCALE:
AS NOTED

KCI JOB NUMBER:
1924007959
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #

C0108

SHEET TITLE
EQUIPMENT ROOM PLANS

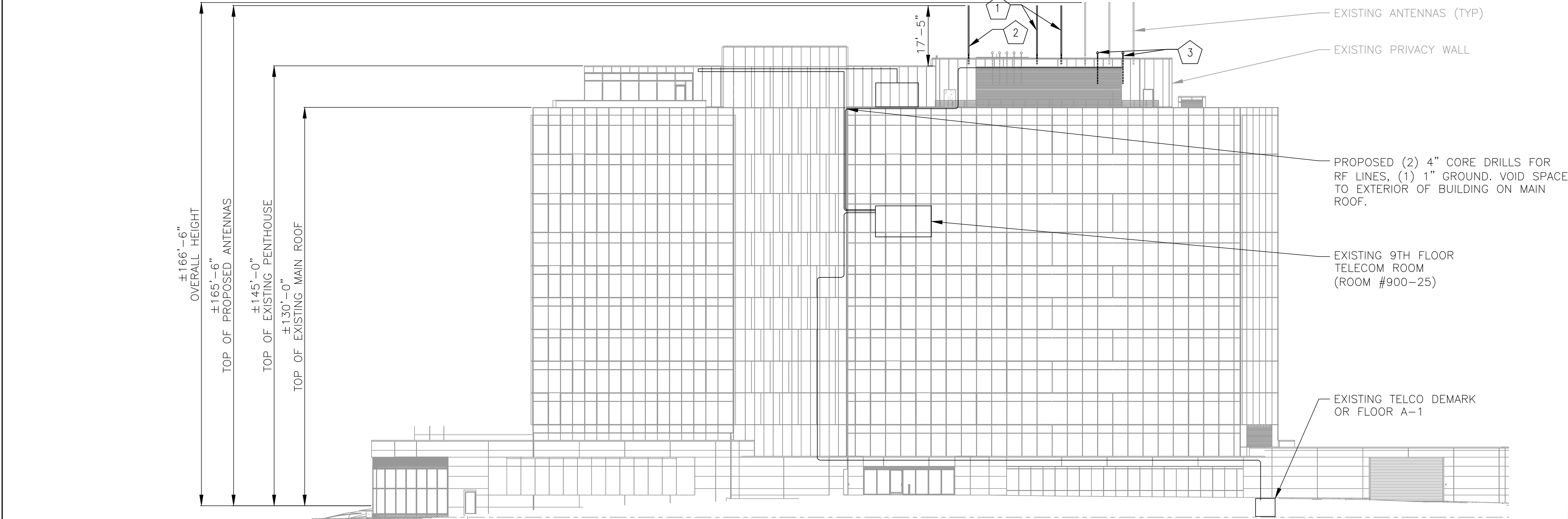


ELEVATION - NORTH FACE
SCALE: 1'=10'

NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES – NEW WORK

- GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.
- 1 NEW WALL MOUNTED Tx RFI CC807-011 OMNI ANTENNA FED BY 7/8" DIAMETER COAX CABLE. (TYP OF 2)
 - 2 NEW WALL MOUNTED RX RFI CC807-11 OMNI ANTENNA FED 7/8" DIAMETER COAX CABLE AND TTA FED BY 1/2" DIAMETER COAX CABLE.
 - 3 NEW WALL MOUNTED GPS ANTENNA FED BY 1/2" DIAMETER COAX CABLE. (TYP OF 2)



ELEVATION - SOUTH FACE
SCALE: 1'=10'

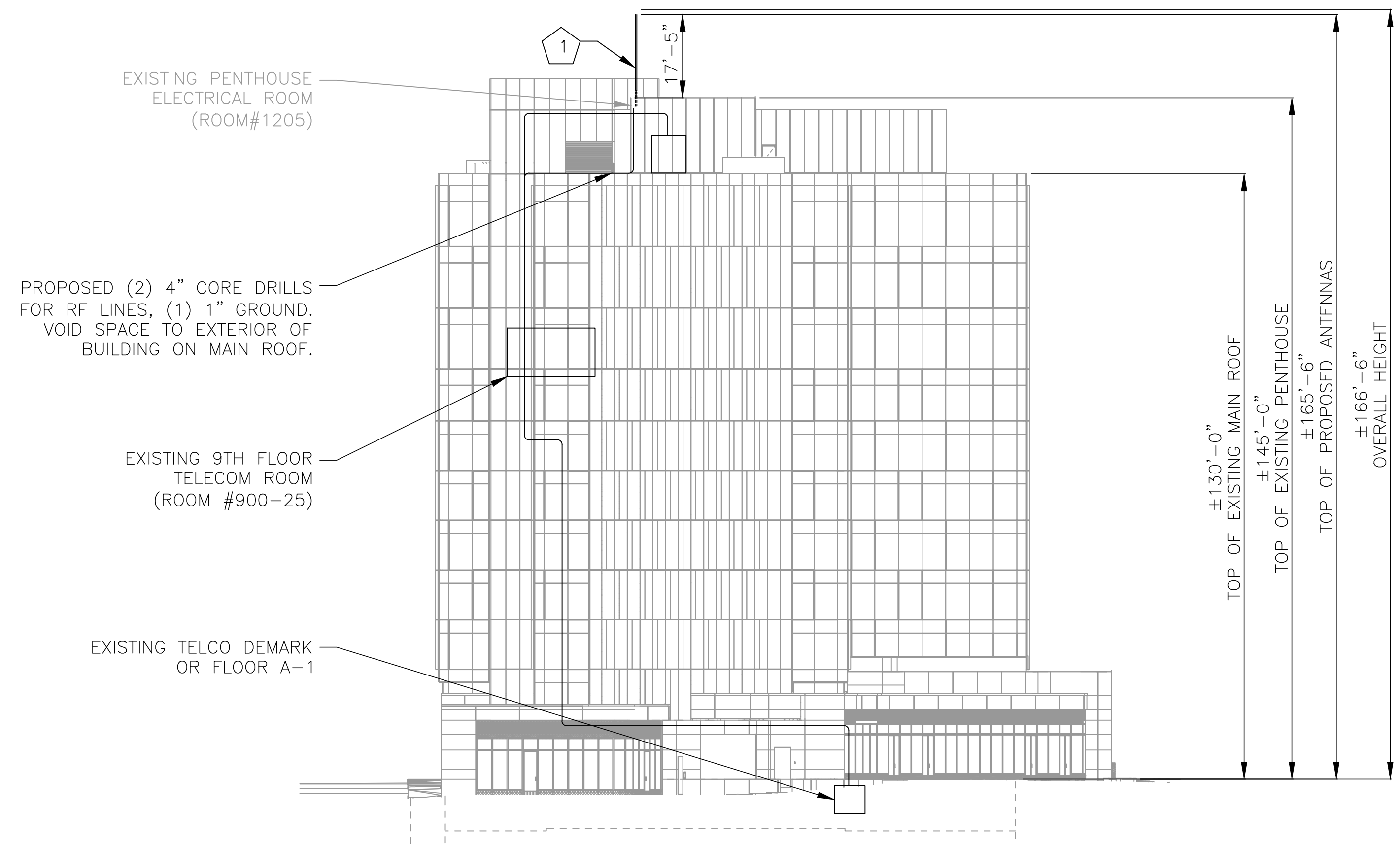


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TECHNOLOGIES

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Fulton, MD 20759
Phone: 410.792.8086



DESIGNED BY: JW 10/15/24 DRAWN BY: JW 10/15/24 CHECKED BY: GT 10/15/24 APPROVED BY: GT 10/15/24	REFERENCE DRAWINGS		REVISIONS		<div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div> <div>DEPARTMENT OF COMMUNICATIONS AND SIGNALING</div> <div>APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD</div> <div>DATE</div> <div>APPROVED ALLEN WONDER PROJECT MANAGER</div> <div>DATE</div>	WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0201	
	NUMBER	TITLE	NO.	DATE	DESCRIPTION					SHEET TITLE ELEVATION PLAN	
			0	9/17/24	ZONING DRAWINGS SUBMISSION					14 OF 35	
			1	11/20/24	ZONING DRAWINGS SUBMISSION						
			2	11/22/24	ZONING DRAWINGS SUBMISSION						
						M NO. FQ	CONTRACT NO. WMATA-LTR-22-001	SCALE: AS NOTED	KCI JOB NUMBER: 1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001		



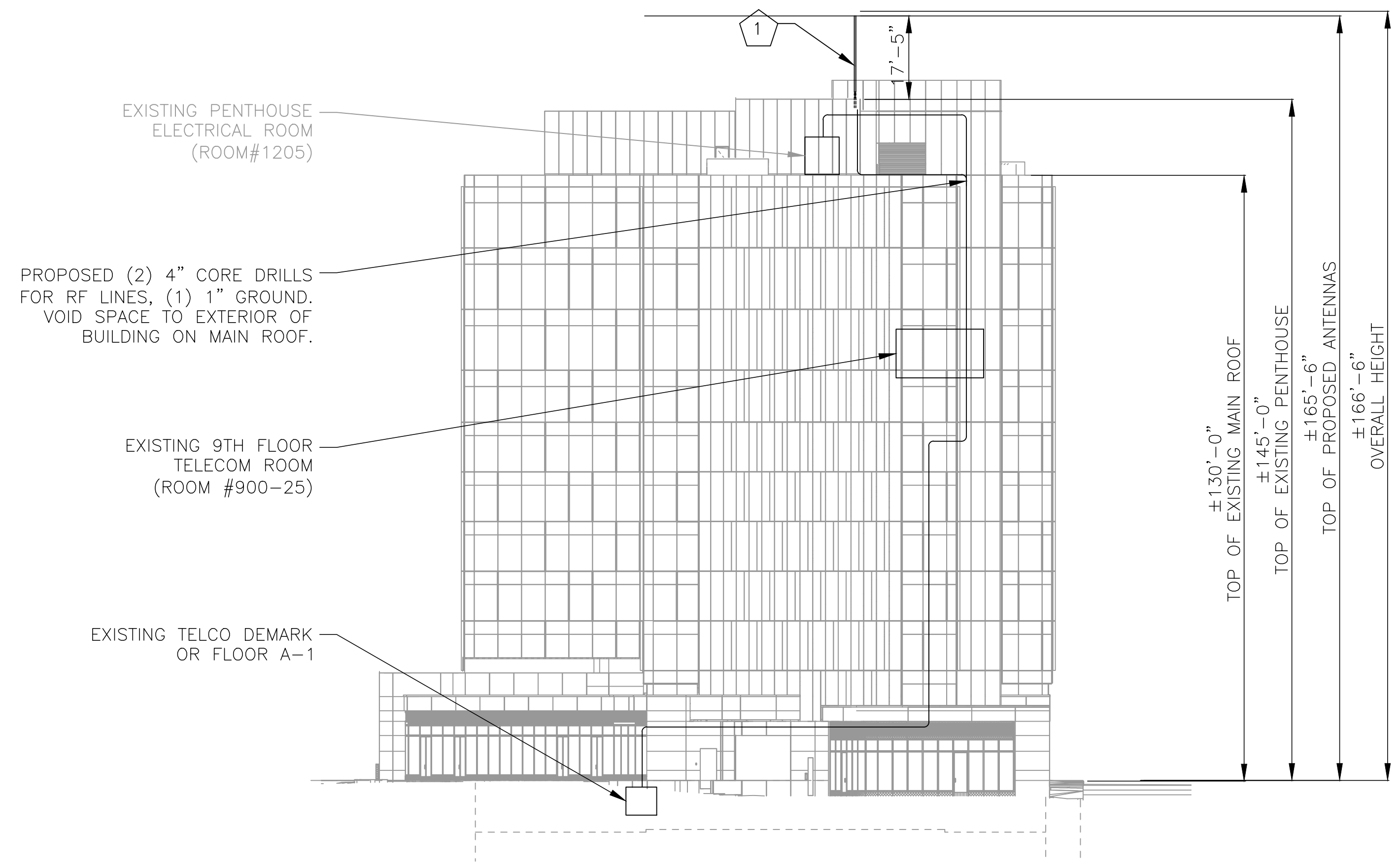
ELEVATION - WEST FACE
SCALE: 1"=10'

NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES – NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT
ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK
LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

1 NEW WALL MOUNTED ANTENNA FED BY 7/8" DIAMETER
COAX CABLE.



ELEVATION - EAST
SCALE: 1"=10'

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			NUMBER	TITLE	NO.	DATE	DESCRIPTION
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					1	11/20/24	ZONING DRAWINGS SUBMISSION
CHECKED BY:	GT	10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION
APPROVED BY:	GT	10/15/24					

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0202	
M NO. FQ		CONTRACT NO. WMATA-LTR-22-001	SCALE: AS NOTED	KCI JOB NUMBER: 1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	SHEET TITLE ELEVATION PLAN
15 OF 35					

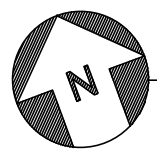
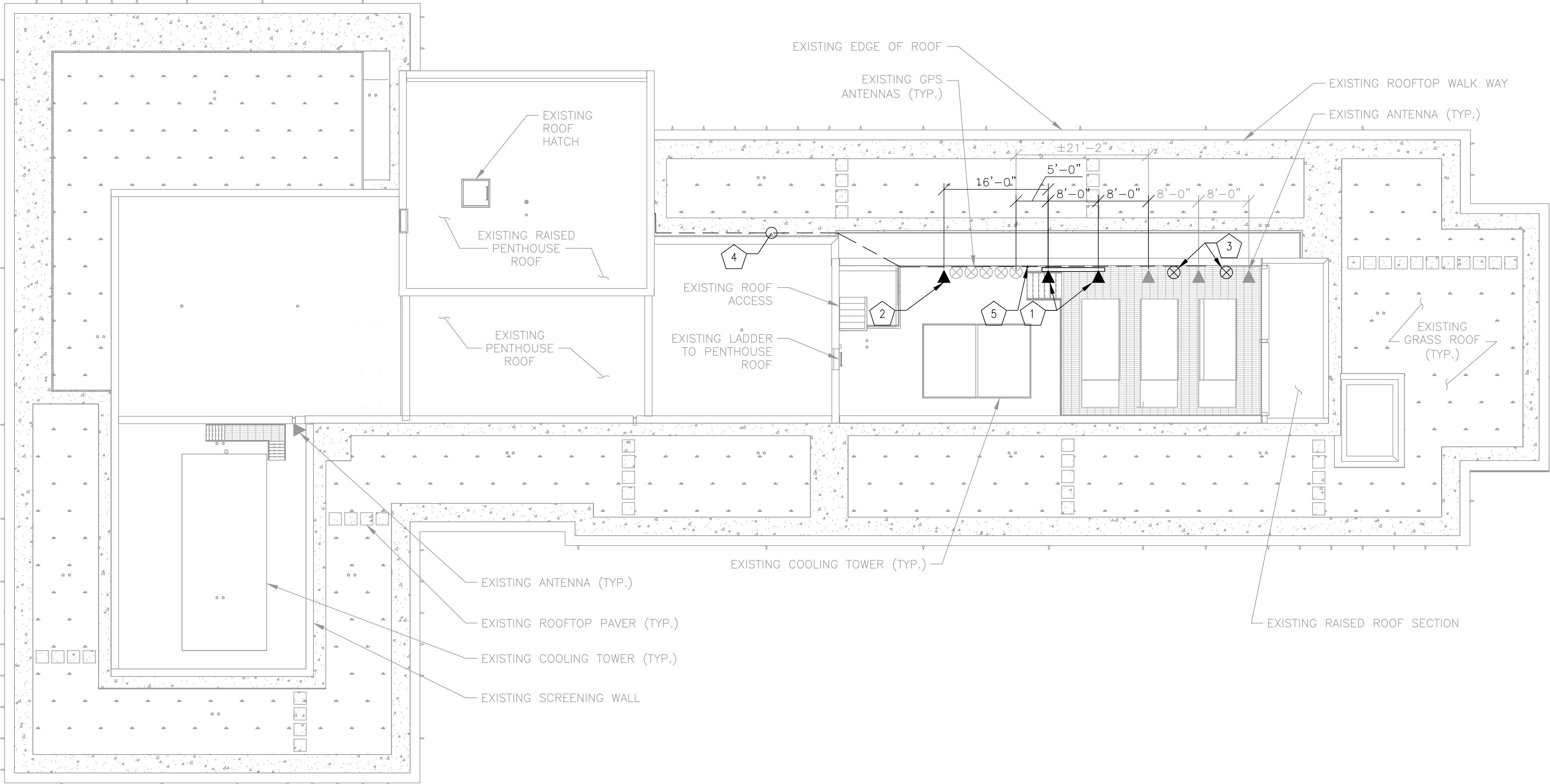
NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES – NEW WORK

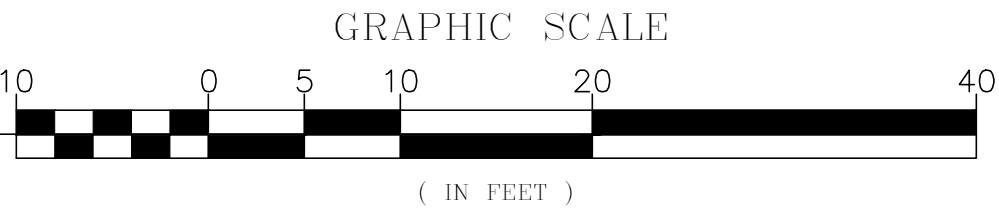
GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

- 1 NEW WALL MOUNTED Tx RFI CC807-11 OMNI ANTENNA.
- 2 NEW WALL MOUNTED RX RFI CC807-11 OMNI ANTENNA AND TTA.
- 3 NEW WALL MOUNTED GPS ANTENNA. (TYP OF 2)
- 4 NEW COAX ROUTED FROM PROPOSED ANTENNAS AND GPS TO PROPOSED WALL PENETRATION. COAX TO BE ROUTED ALONG SAME PATH AS EXISTING COAX ON ROOF AND STRUCTURE.
- 5 NEW COAX TO RUN UP STEEL COLUMN INSIDE EXISTING STEALTH WALL OUT TO NEW ANTENNA AND GPS LOCATIONS

NOTE:
REFER TO SHEET S0501 FOR ANTENNA MOUNTING DETAIL, AS WELL AS STRUCTURAL MOUNT ANALYSIS & ROOFTOP EVALUATION PREFORMED BY KCI TECHNOLOGIES.



ROOF PLAN
SCALE: 1"=10'



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11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086



MOTOROLA SOLUTIONS

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	NUMBER	TITLE	NO.	DATE	DESCRIPTION
DRAWN BY: JW 10/15/24			0	9/17/24	ZONING DRAWINGS SUBMISSION
CHECKED BY: GT 10/15/24			1	11/20/24	ZONING DRAWINGS SUBMISSION
APPROVED BY: GT 10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

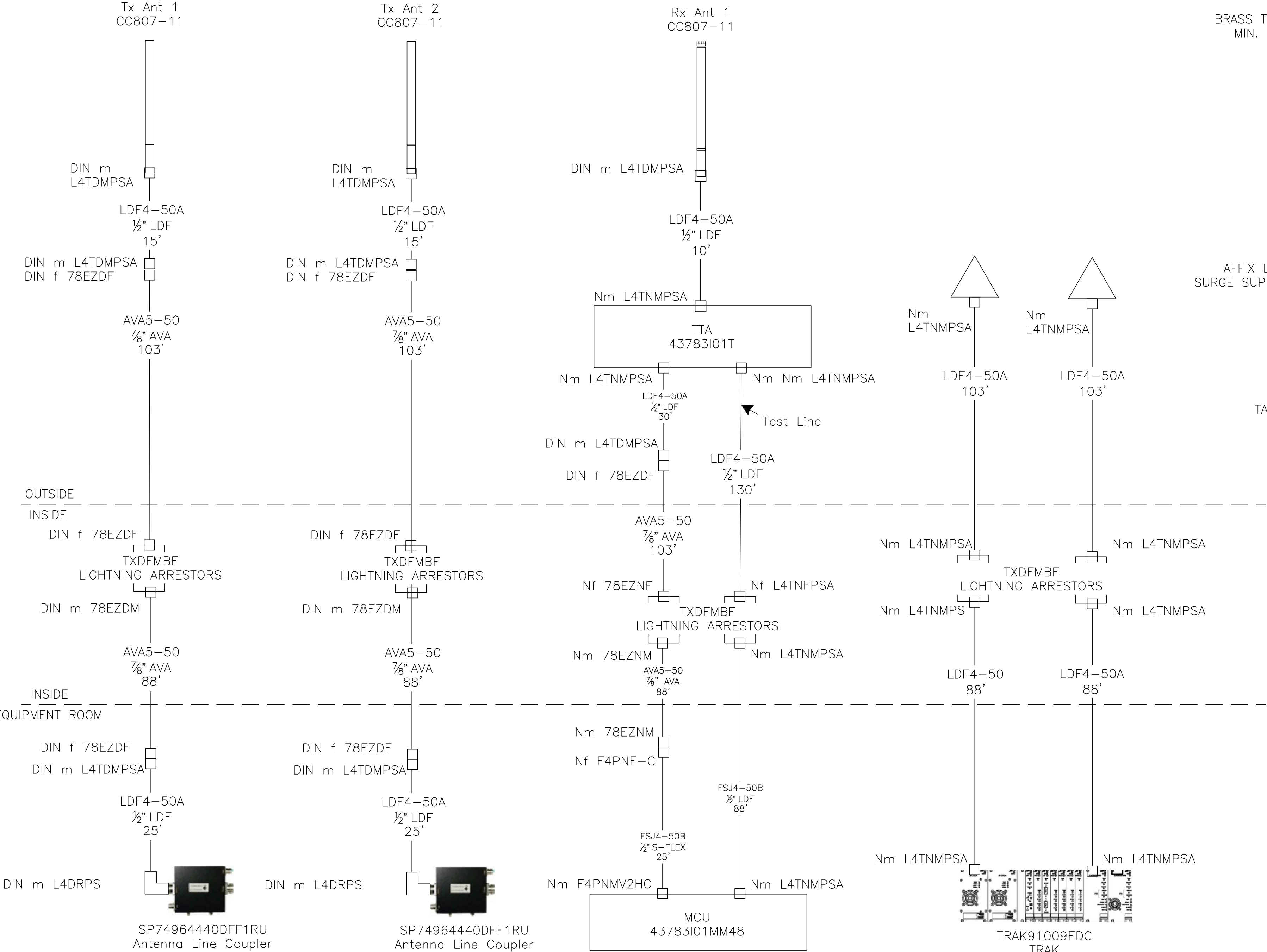
WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # C0203	
M NO. FQ		CONTRACT NO. WMATA-LTR-22-001		SHEET TITLE ROOFTOP PLAN/ ANTENNA LAYOUT	
SCALE: AS NOTED		KCI JOB NUMBER: 1924007959 WMATA JOB NUMBER: WM700.AG.RF.09B.G0001		16 OF 35	

NOTES:

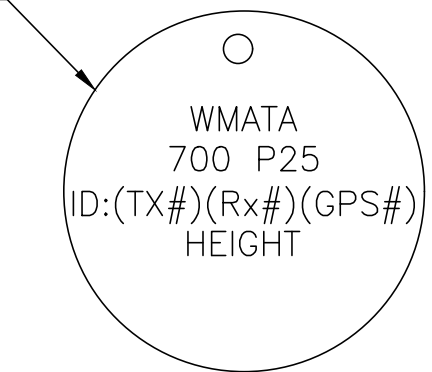
1. CONSULT THE BUILDING ENGINEER OR MANAGER TO DETERMINE INFORMATION ABOUT ANY EXISTING BUILDING GROUNDING ELECTRODE SYSTEMS. THE BUILDING ENGINEER SHOULD ALSO BE INFORMED BEFORE ATTEMPTING TO WELD OR DRILL ON THE BUILDING ROOFTOP.
2. DEPENDING ON THE AVAILABLE LOCATIONS FOR GROUNDING DOWN-CONDUCTORS AND THE ENTRY POINT OF THE RF TRANSMISSION LINES INTO THE BUILDING, IT MAY BE NECESSARY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE SYSTEM.

RF LINES AND ANTENNA SCHEDULE

		EXTERIOR FEEDLINE			INTERIOR FEEDLINE						UPPER JUMPER			TTA	TTA JUMPER				ANTENNA		
	ID	MAKE	SIZE	LENGTH	MAKE	SIZE	LENGTH	COLOR			MAKE	DIA	LENGTH	MAKE	MAKE	SIZE	LENGTH	MAKE	MODEL	AZIMUTH DEGREES	
		MODEL	DIA"	FEET	MODEL	DIA"	FEET	BAND 1	BAND 2	BAND 3	MODEL	INCH	FEET	MODEL	MODEL	DIA	FEET				
TRANSMIT	Tx1	AVAS-50	7/8"	103	AVAS-50	7/8"	88	WHITE	BLUE		LDF4-50A	1/2"	15					RFI	CC807-11	OMNI	
	Tx2	AVAS-50	7/8"	103	AVAS-50	7/8"	88	WHITE	BLUE	BLUE	LDF4-50A	1/2"	15					RFI	CC807-11	OMNI	
RECEIVE	TEST1	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	WHITE					BIRD							
	Rx1	AVAS-50	7/8"	103	AVAS-50	7/8"	88	WHITE	RED		LDF4-50A	1/2"	10	TECH	LDF4-50A	1/2"	30	RFI	CC807-11	OMNI	
GPS	GPS1	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	ORANGE									TRAK	L9	OMNI	
	GPS2	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	ORANGE	ORANGE								TRAK	L9	OMNI	

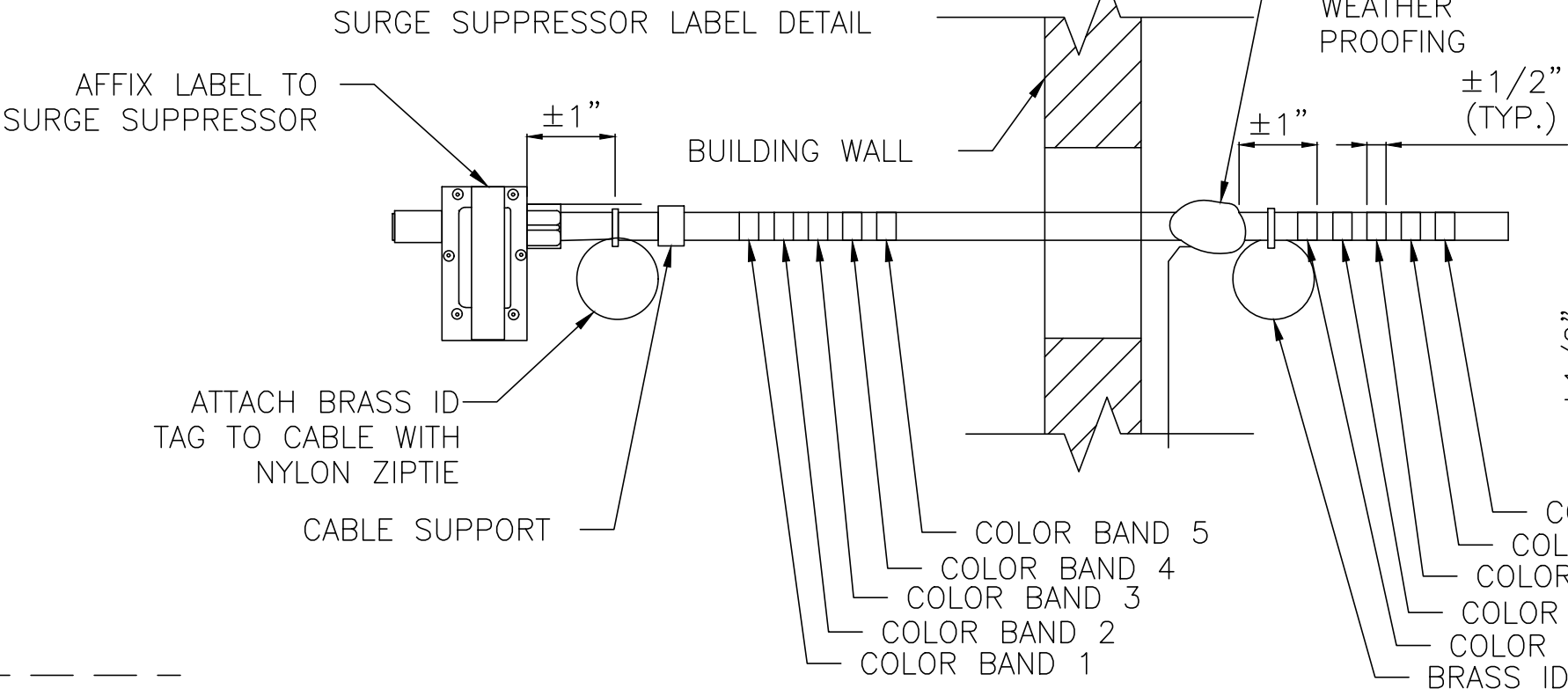


BRASS TAG 1.25" MIN. DIAMETER



BRASS TAG DETAIL

WMATA 700 P25 (ID) HEIGHT



COLOR CODING AND LABELING DETAIL
SCALE: NONE

R-56: TRANSMISSION LINES SHALL BE IDENTIFIED IN A PERMANENT MANNER USING METAL TAGS, OR EQUIVALENT METHOD LOCATED AT THE ANTENNA, AT THE BOTTOM OF THE TOWER, AT THE SHELTER CABLE ENTRANCE AND INSIDE THE SHELTER OR BUILDING.



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11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086



MOTOROLA SOLUTIONS

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	NUMBER	TITLE	NO.	DATE
DRAWN BY: JW 10/15/24			0	9/17/24
			1	11/20/24
CHECKED BY: GT 10/15/24			2	11/22/24
APPROVED BY: GT 10/15/24				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
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PROJECT MANAGER

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L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

SCALE:
AS NOTED

KCI JOB NUMBER:
192400795B
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #

A0101

SHEET TITLE

RF COMPONENT PLAN

19 OF 35

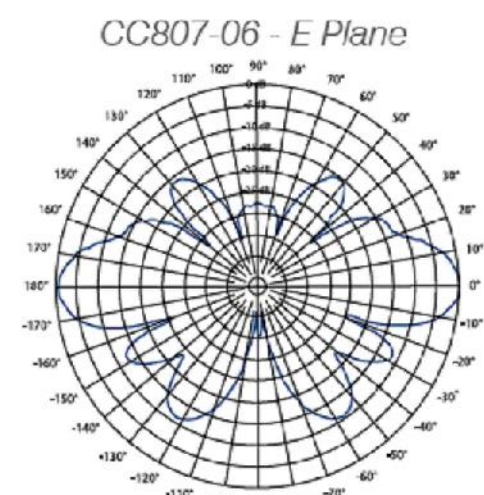
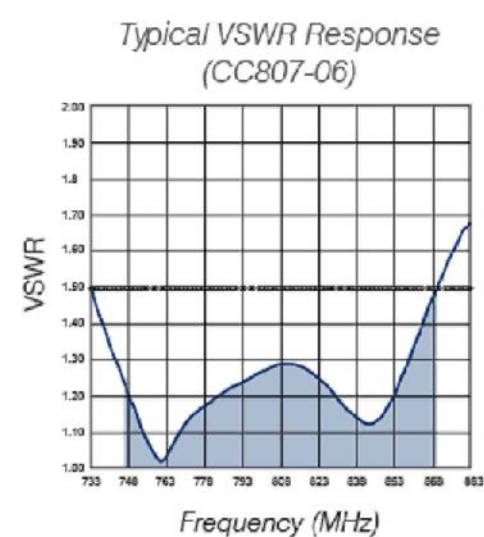
CC807 Series



The true corporate feed of these arrays maintains total pattern integrity over a very broad operating bandwidth, similar to that previously available only in exposed dipole configurations. This is now achieved in the preferred form factor of a fully enclosed fiberglass radome. The corporate collinears employ a unique corporate phasing system enabling precision control of the element placements ensuring phase purity resulting in exceptional bandwidth and electrical performance.

Gain is maximised and side lobes reduced dramatically. In a patented design approach the individual dipole elements are soldered to a brass support tube which is directly connected to the mounting tube and the lightning spike at the top of the antenna.

■ Pre-set downtilt variations of 1, 2, 3, 4 and 5 degrees are available on CC807-08 & CC807-11 Models (see notes)



Model Number	CC807-03	CC807-06	CC807-08	CC807-11
Nominal Gain <i>dBd</i> (<i>dBi</i>)	3 (5.1)	6 (8.1)	8 (10.1)	10.5 (12.6)
Frequency <i>MHz</i>	746-870			
Tuned Bandwidth <i>MHz</i>	Full band			
VSWR (Return Loss)	<1.5:1			
Nominal Impedance Ω	50			
Vertical Beamwidth ^o	28	17	9	4.5
Horizontal Beamwidth ^o	Omni +/- 0.5dB			
Input Power <i>W</i>	250	500		
Passive IM 3rd order (2x20W) <i>dBc</i>	-150			
Peak Instantaneous Power (<i>kW</i>)	25			

Model Number		CC807-03	CC807-06	CC807-08	CC807-11
Construction		Composite fibreglass sky, blue radome, aluminium mounting tube			
Length <i>m (inches)</i>		1.3 (51)	1.8 (71)	2.9 (114)	5.3 (209)
Radome Diameter <i>mm (inches)</i>		76 (3)			
Weight <i>kg (lbs)</i>		4 (9)	7 (16)	12 (27)	22 (49)
Shipping Weight <i>kg (lbs)</i>		8 (18)	11 (25)	18 (40)	30 (66)
Shipping	H	139 (6)			
Dimensions <i>mm (inches)</i>	W	139 (6)			
	L	1400 (55)	1900 (75)	3000 (118)	5600 (220)
Termination		7/16" DIN fixed female			
Suggested Clamps (not included)		2 x UC-114			
Invertible Mounting		Yes (1)			
Projected area	No Ice	806 (0.9)	1268 (1.4)	2320 (2.5)	4560 (4.9)
<i>cm² (ft²)</i>	With Ice	1048 (1.2)	1571 (1.7)	2880 (3.1)	5760 (6.2)
Lateral Thrust @ 160km/h <i>N (mph)</i>		96 (22)	150 (34)	276 (62)	540 (121)
Wind Gust Rating <i>km/h (mph)</i>		>240 (>150)			
Torque @ 160km/h <i>Nm (100mph ft-lbs)</i>		2- (15)	73 (54)	278 (205)	1032 (761)

(1) Down tilt versions can not be field inverted.
Note: Pre-set down tilt variations of 1, 2, 3, 4 & 5 degrees are available in the following models CC807-08, CC807-11. Simply add -T1, -T2, -T3, -T4 or -T5 at the end of the model being ordered. E.g. CC807-08-T3, CC807-11-T3.
USA Patent: 7, 365, 698, and Australian Patent: 2005904524

P-41387-2

Asia Pacific | EMEA | Americas

rfi.com.au

Application - Defense (Military) ♦ SatCom ♦ Wireless

- ◆ Range Timing
- ◆ Communications Networks
- ◆ Satellite Ground Stations
- ◆ Test and Measurement Systems



The L9x GPS Antenna is the latest offering from TRAK Microwave, used to provide the L1 carrier signals to the TRAK family of GPS synchronization systems. Proven reliability, advanced interference rejection, and effective reception of GPS signals makes this the standard used on all TRAK Time and Frequency Systems.

Filtering:	Triple Filter, -60 dB @ 1575.42, ±50 MHz	Connector:	Model L9A "TNC" Female Model L9N "N" Female
Gain:	>30 dB, (35 dB Typical)	Dimensions:	Diameter, 3.5 Inches and Height, 4.0 Inches (Excluding Mast Adapter)
Noise Figure:	2.2 dB Maximum	Weight:	0.7 Pounds (Excluding Mast Adapter)
Protection:	80V, IEC1000-4-5	Temperature:	Operational, -40° C to +85° C Storage, -45° C to +90° C
Power Supply:	Model L9A + 5 to + 15 VDC Model L9N + 5, +0.5 VDC		

Technical drawing of the 1000 Series LED Flood Light. The top view shows a circular light fixture with a diameter of 90mm and a height of 163mm. The bottom view shows the mounting bracket with two 4mm hex screws.

Specifications subject to change without notice.



4726 Eisenhower Blvd
Tampa, Florida 33634-6391 USA
Ph: 813-901-7200 ♦ Fx: 813-901-7491

Dunsinane Avenue
Dundee, DD2 3QF Scotland
Ph: 44-1382-427200 ♦ Fx: 44-1382-833599



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KCI TECHNOLOGIES, INC.
11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086

**MOTOROLA SOLUTIONS**

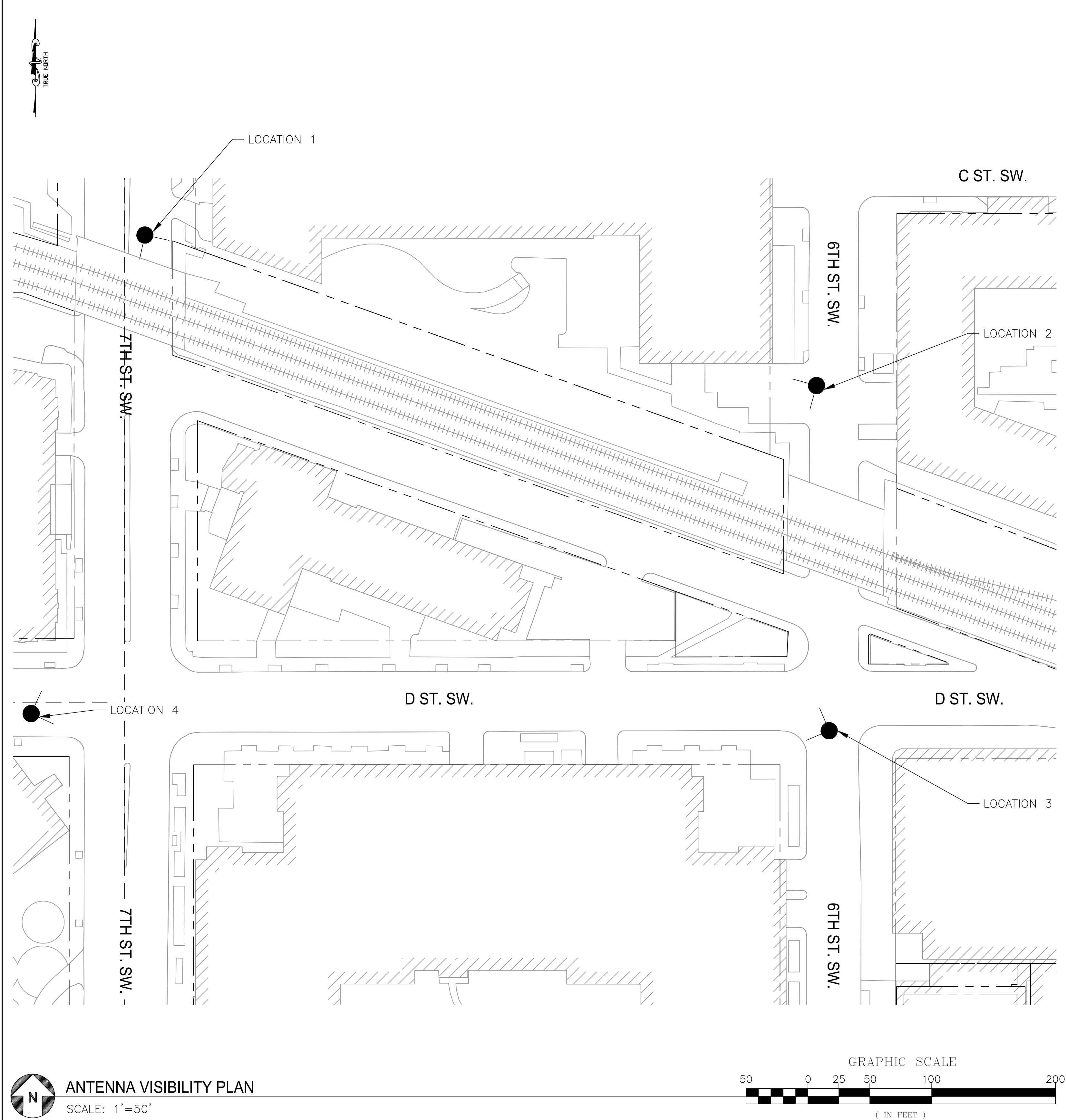
1 ANTENNA - CC807-08

SCALE: NONE

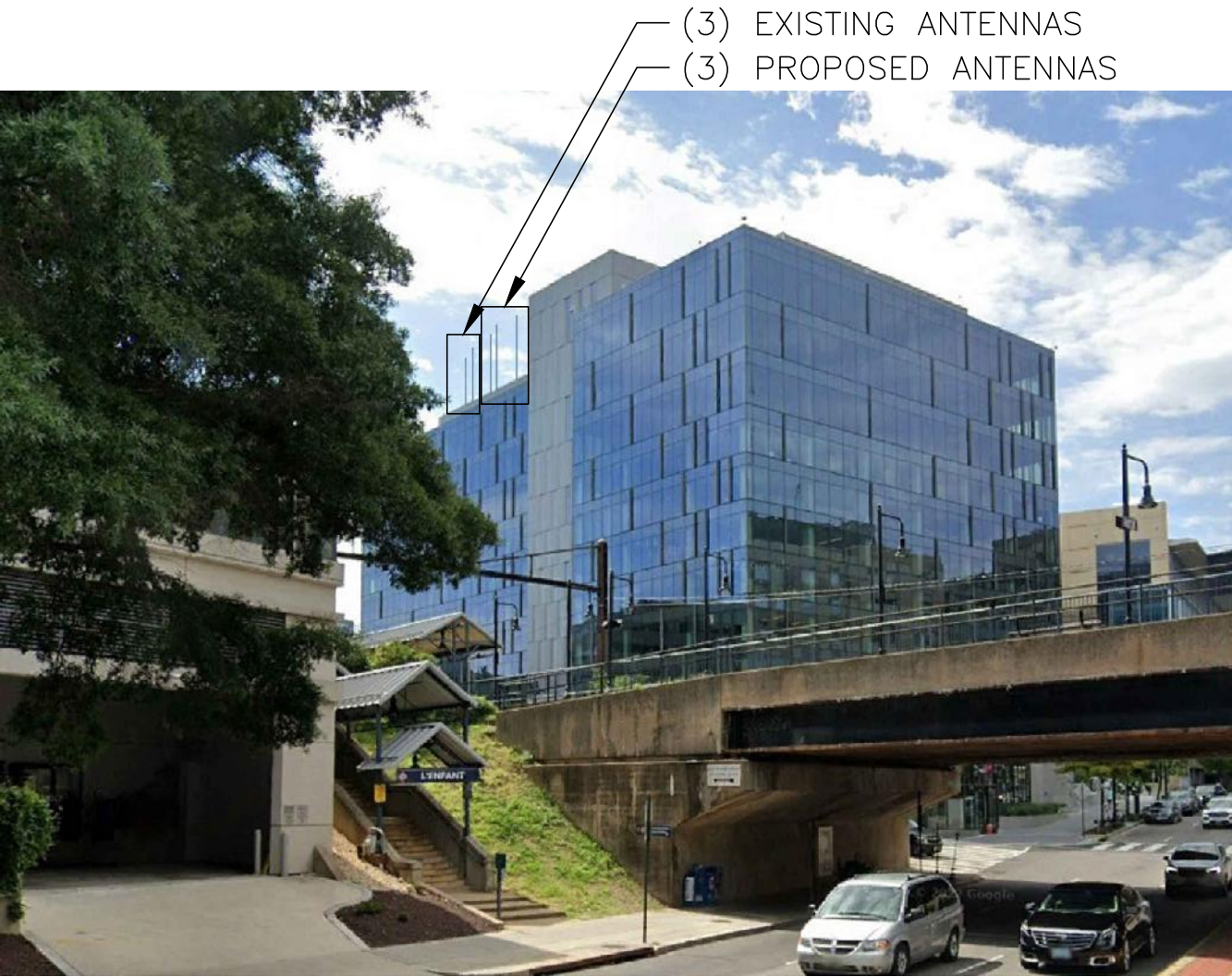
2 GPS ANTENNA - LP SERIES

SCALE: NONE

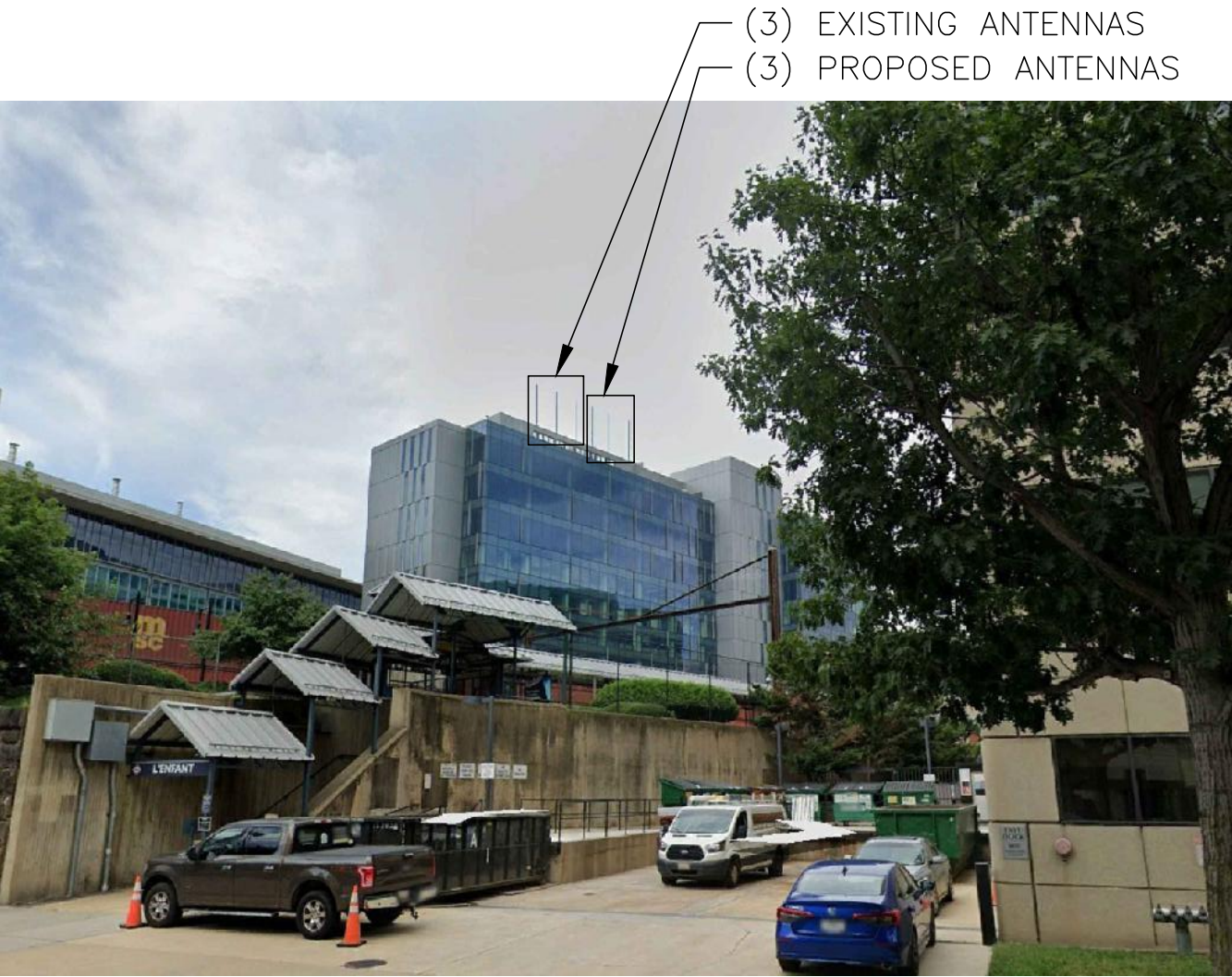
DESIGNED BY: JW 10/15/24 DATE DRAWN BY: JW 10/15/24 DATE CHECKED BY: GT 10/15/24 DATE APPROVED BY: GT 10/15/24 DATE	REFERENCE DRAWINGS		REVISIONS			<div><div><div>M</div><div>metro</div></div><div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>DEPARTMENT OF COMMUNICATIONS AND SIGNALING</div></div></div>	WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # A0501	
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			1	11/20/24	ZONING DRAWINGS SUBMISSION							
			2	11/22/24	ZONING DRAWINGS SUBMISSION							
APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD			DATE			APPROVED ALLEN WONDER PROJECT MANAGER			DATE			
M NO. FQ		CONTRACT NO. WMATA-LTR-22-001		SCALE: AS NOTED		KCI JOB NUMBER: 1924007956 WMATA JOB NUMBER: WM70A AG RF 09R.G0001		20 OF 35				



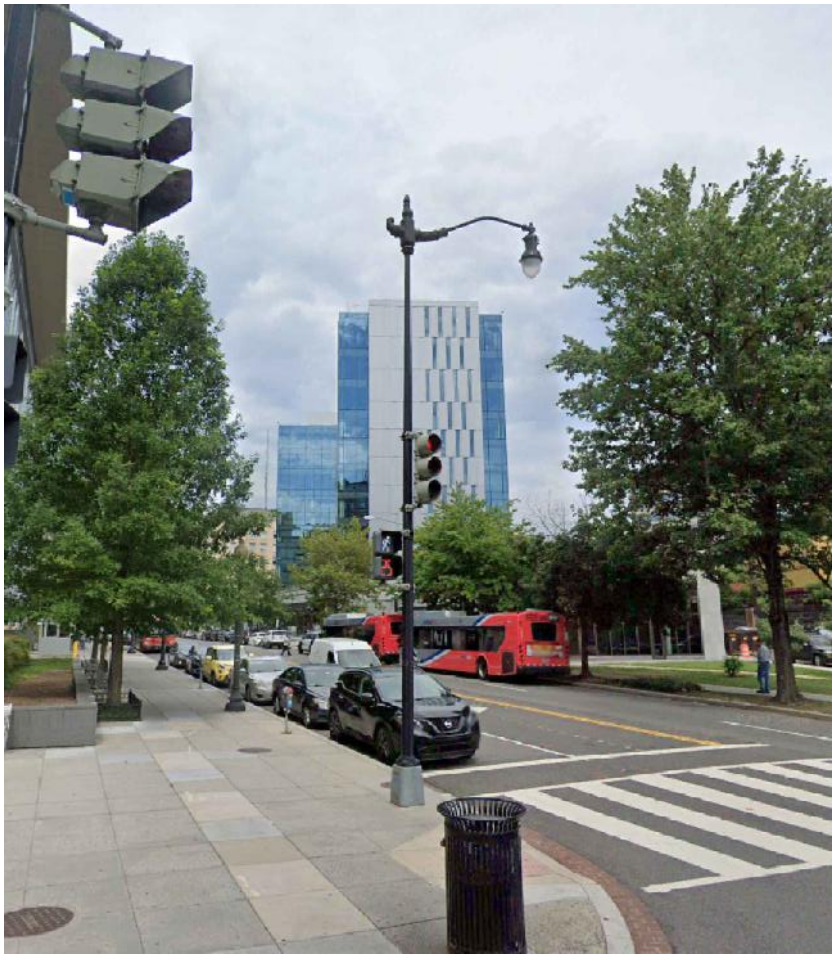
ANTENNA VISIBILITY PLAN
SCALE: 1"=50'



LOCATION 1 - STREET VIEW



LOCATION 2 - STREET VIEW



LOCATION 3 - STREET VIEW



LOCATION 4 - STREET VIEW

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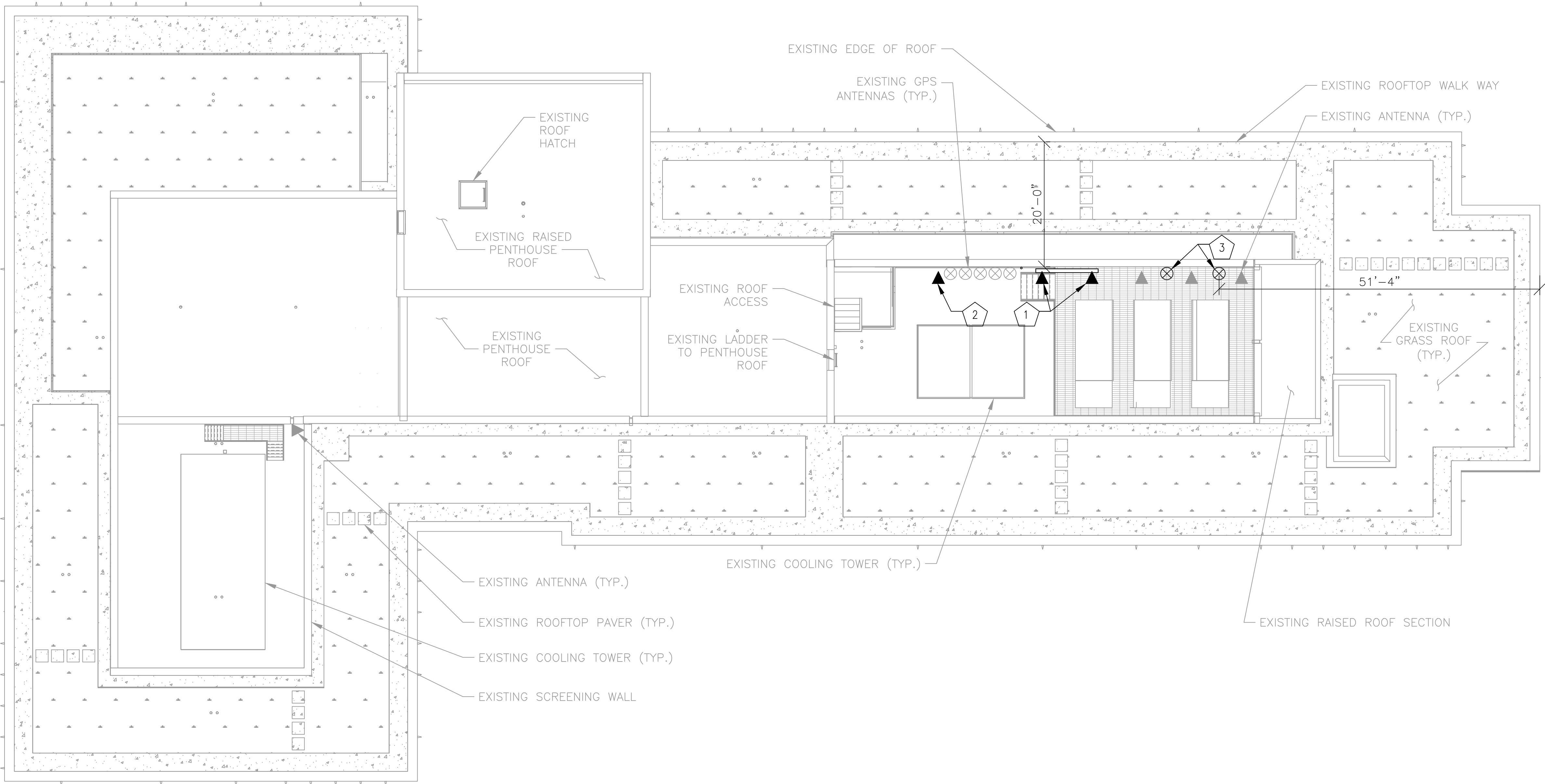
			REFERENCE DRAWINGS		REVISIONS		<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>DEPARTMENT OF COMMUNICATIONS AND SIGNALING</div><div><div>APPROVED: JOHN C. HOFBAUER ENGINEER OF RECORD</div><div>DATE</div><div>APPROVED: ALLEN WONDER PROJECT MANAGER</div><div>DATE</div></div></div>			WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION L'ENFANT PLAZA 300 7TH STREET SW WASHINGTON, DC 20024				SHEET # H0001	
DESIGNED BY: JW	10/15/24	DATE	NUMBER	TITLE	NO.	DATE	DESCRIPTION				SHEET TITLE VISIBILITY PLAN				
DRAWN BY: JW	10/15/24	DATE			0	9/17/24	ZONING DRAWINGS SUBMISSION								
CHECKED BY: GT	10/15/24	DATE			1	11/20/24	ZONING DRAWINGS SUBMISSION								
APPROVED BY: GT	10/15/24	DATE			2	11/22/24	ZONING DRAWINGS SUBMISSION								
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NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES – NEW WORK

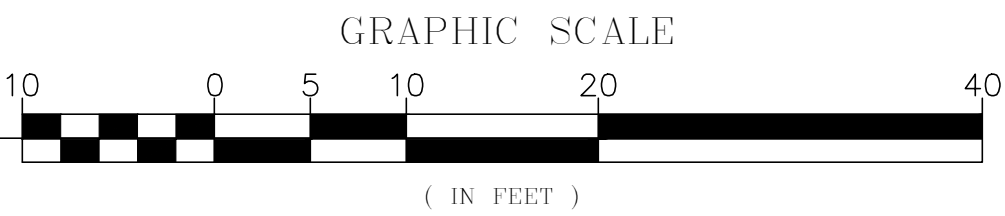
GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

- 1
- NEW WALL MOUNTED Tx RFI CC807–11 OMNI ANTENNA.
- 2
- NEW WALL MOUNTED Rx RFI CC807–11 OMNI ANTENNA AND TTA.
- 3
- NEW WALL MOUNTED GPS ANTENNA. (TYP OF 2)



ROOF PLAN

SCALE: 1"=10'



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MOTOROLA SOLUTIONS

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	NUMBER	TITLE	NO.	DATE
DRAWN BY: JW 10/15/24			0	9/17/24
			1	11/20/24
CHECKED BY: GT 10/15/24			2	11/22/24
APPROVED BY: GT 10/15/24				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

DATE

APPROVED
ALLEN WONDER
PROJECT MANAGER

DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

SCALE:
AS NOTED

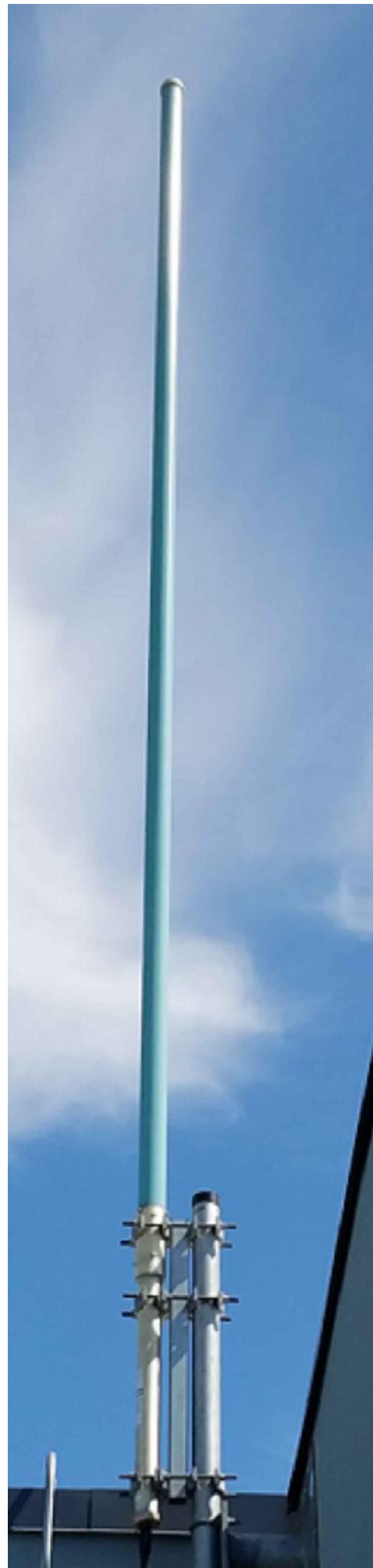
KCI JOB NUMBER:
1924007959
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #

H0002

SHEET TITLE

ROOFTOP SETBACK PLAN



1

TYPICAL ANTENNA

H0003



2

CURRENT ANTENNAS AND GPS

H0003



3

PROPOSED ANTENNAS AND GPS - PHOTO SIM

H0003

EXISTING ANTENNAS: 18'-5" IN HEIGHT
PROPOSED ANTENNAS: 17'-5" IN HEIGHT



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	NUMBER	TITLE	NO.	DATE	DESCRIPTION		SHEET TITLE ANTENNA PHOTOS					
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			1	11/20/24	ZONING DRAWINGS SUBMISSION							
			2	11/22/24	ZONING DRAWINGS SUBMISSION							