

CABLE SCHEDULE AND RF SYSTEM DESIGN PLAN																
SECTOR	ANTENNA POSITION	ANTENNA STATUS	TECHNOLOGY/FREQUENCY	MAKE	MODEL	RAD CTR. FT. AGL	AZMUTH	RRH/TMA QUANTITY AND MODEL	TRANSMISSION CABLE							
									LENGTH	STATUS	QUANTITY	TYPE				
ALPHA	#1	PROPOSED	LTE 700 LTE 850 LTE WCS	CCI	TPA45R-KUBA	41'-10"	40°	(1) PROPOSED 4490 B5/B12A	±160'	PROPOSED PROPOSED	1 3	0.4" FIBER 0.92" DC POWER				
	#2	PROPOSED	5G CBAND 5G DOD	ERICSSON	AIR6472 B77G B77M	44'-4"	40°	(1) PROPOSED INTEGRATED WITHIN: AIR6472 B77G B77M								
	#3	PROPOSED	LTE 700 LTE 1900 LTE AWS	CCI	TPA45R-KUBA	41'-10"	40°	(1) PROPOSED 4494 B14/B29 (1) PROPOSED 4890 B25/B66								
BETA	#4	PROPOSED	LTE 700 LTE 850 LTE WCS	CCI	TPA45R-KUBA	33'-11"	130°	(1) PROPOSED 4490 B5/B12A	±180'	PROPOSED PROPOSED	1 3	0.4" FIBER 0.92" DC POWER				
	#5	PROPOSED	5G CBAND 5G DOD	ERICSSON	AIR6472 B77G B77M	36'-5"	130°	(1) PROPOSED INTEGRATED WITHIN: AIR6472 B77G B77M								
	#6	PROPOSED	LTE 700 LTE 1900 LTE AWS	CCI	TPA45R-KUBA	33'-11"	130°	(1) PROPOSED 4494 B14/B29 (1) PROPOSED 4890 B25/B66								
GAMMA	#7	PROPOSED	LTE 700 LTE 850 LTE WCS	CCI	TPA45R-KUBA	30'-10"	220°	(1) PROPOSED 4490 B5/B12A	±15'	PROPOSED PROPOSED	1 3	0.4" FIBER 0.92" DC POWER				
	#8	PROPOSED	5G CBAND 5G DOD	ERICSSON	AIR6472 B77G B77M	33'-4"	220°	(1) PROPOSED INTEGRATED WITHIN: AIR6472 B77G B77M								
	#9	PROPOSED	LTE 700 LTE 1900 LTE AWS	CCI	TPA45R-KUBA	30'-10"	220°	(1) PROPOSED 4494 B14/B29 (1) PROPOSED 4890 B25/B66								
DELTA	#10	PROPOSED	LTE 700 LTE 850 LTE WCS	CCI	TPA45R-KUBA	30'-10"	310°	(1) PROPOSED 4490 B5/B12A	±15'	PROPOSED PROPOSED	1 3	0.4" FIBER 0.92" DC POWER				
	#11	PROPOSED	5G CBAND 5G DOD	ERICSSON	AIR6472 B77G B77M	33'-4"	310°	(1) PROPOSED INTEGRATED WITHIN: AIR6472 B77G B77M								
	#12	PROPOSED	LTE 700 LTE 1900 LTE AWS	CCI	TPA45R-KUBA	30'-10"	310°	(1) PROPOSED 4494 B14/B29 (1) PROPOSED 4890 B25/B66								
GPS									PROPOSED 1							
TOTAL # OF ANTENNAS: 12 (8) PROPOSED TPA45R-KUBA ANTENNAS (2 PER SECTOR) (4) PROPOSED AIR6472 B77G B77M ANTENNA (1 PER SECTOR)									PROPOSED RRH'S (4) PROPOSED 4494 B14/B29 (1 PER SECTOR) (4) PROPOSED 4890 B25/B66 (1 PER SECTOR) (4) PROPOSED 4490 B5/B12A (1 PER SECTOR)				PROPOSED DCS (4) PROPOSED RAYCAP DCS-48-60-24-PC16-EV			
NEW EQUIPMENT: YES									EQUIPMENT SHELTER SIZE: N/A							

NOTES:
1. SUBCONTRACTOR SHALL COORDINATE COLOR CODING WITH THE MASTER COLOR CODE DOCUMENT.
2. INSTALL SURGE ARRESTORS ON NEW MAIN COAXIAL CABLES. GROUND TO NEAREST GROUND BAR.
3. SUB CONTRACTOR SHALL INSTALL A BRASS IDENTIFICATION TAG (1 1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS, ONE AT THE ANTENNA PORT CONNECTION NEAR THE END OF THE JUMPER AND ONE ON EACH END OF THE JUMPER SERVING THE RADIO EQUIPMENT. EACH TAG WILL BE STAMPED WITH "ATT" AND THE ANTENNA PORT IDENTIFICATION NUMBER. TAGS SHALL BE ATTACHED WITH CORROSION PROOF UV RESISTANT WIRE OR CABLE-TY.

RF DESIGN NOTE:
This Antenna and Coax Cable schedule has been created using the RFDS ID 14541 PRELIMINARY dated 03/12/2024.
All antenna design, zoning, structural analysis, permits and compliance submissions are coordinated with the fore mentioned document.

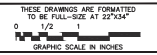


FA NUMBER: 10087362
VALLEY PARK
527 E MAPLE AVE
VIENNA, VA 22180



SUBMITTALS		
DATE	DESCRIPTION	REV.
11-22-2022	CONSTRUCTION REVIEW	A
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02-28-2025	ADD GAS DESIGN	3
04-16-2025	REVIEW REDLINES	4
06-09-2025	REMOVE GENERATOR	5

PROJECT NO: 1152.443
DESIGNER: M.A.
ENGINEER: C.S.

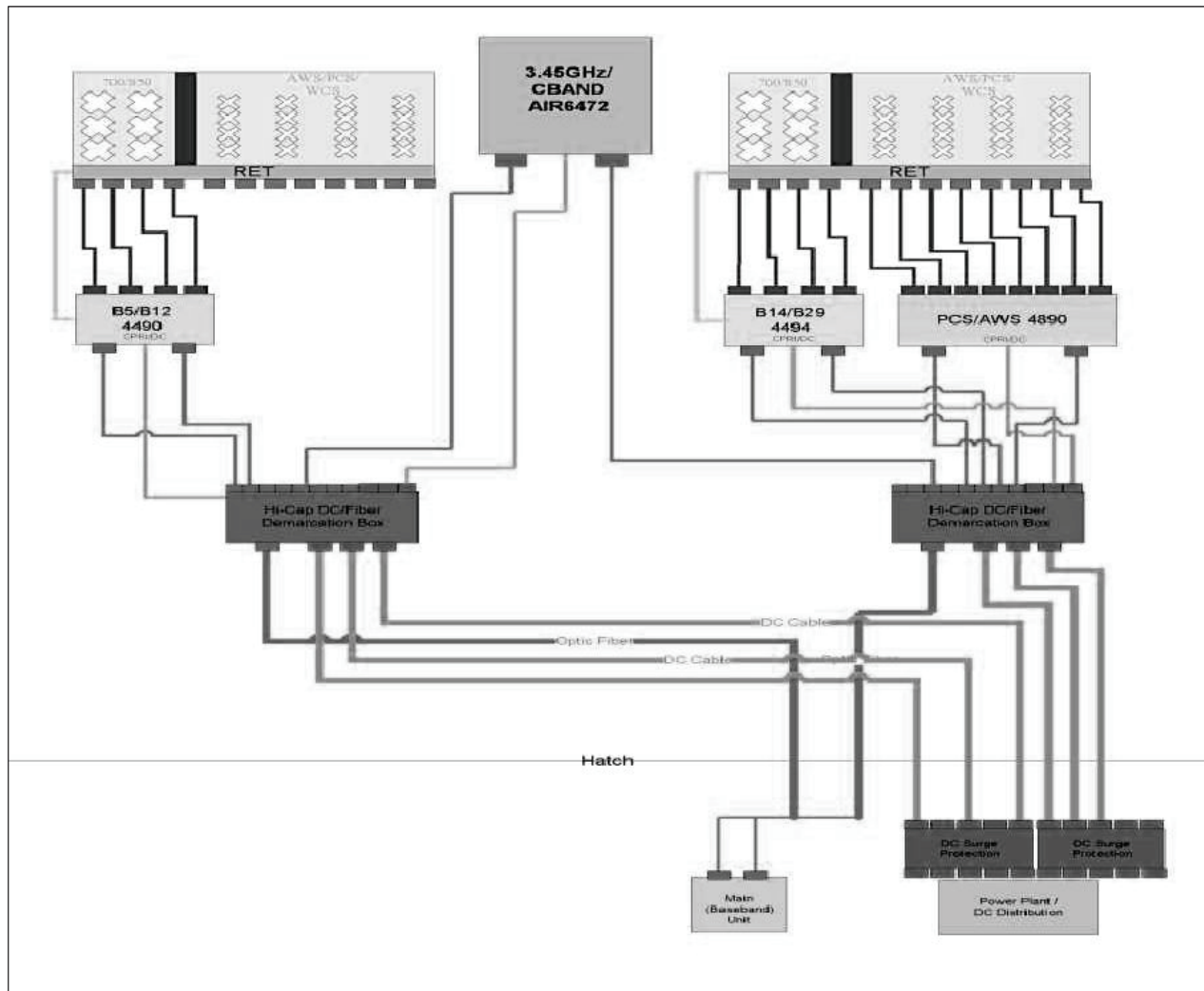


SHEET TITLE:

ANTENNA
SCHEDULE

SHEET NUMBER:

S-1



ANTENNA & RF SYSTEM DIAGRAM
SCALE: N.T.S.

1
S-2



9000 MENDENHALL CT
COLUMBIA, MD 21045



6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
PHONE: (202) 408-0960



10 CHURCH CIRCLE
ANNAPOLIS, MD 21401
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SEAL:



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ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED
TO BE FULL-SIZE AT 22"X34"

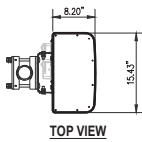
GRAPHIC SCALE IN INCHES

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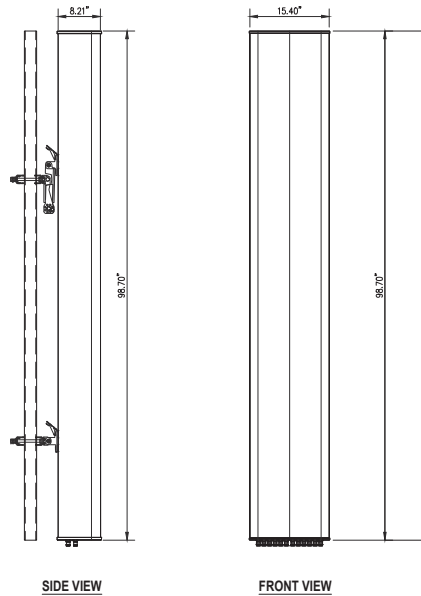
ANTENNA & RF
SYSTEM DIAGRAM

SHEET NUMBER:

S-2

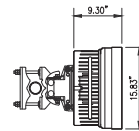


ANTENNA MODEL:
CCI TPA-45R-KU8A
SIZE: 96.7\"/>

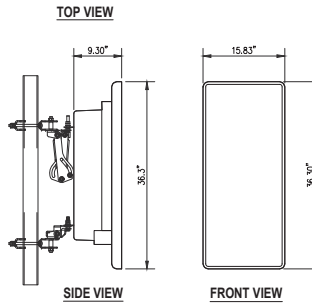


CCI TPA-45R-KU8A ANTENNA DETAIL
SCALE: 1\"/>

1
S-3

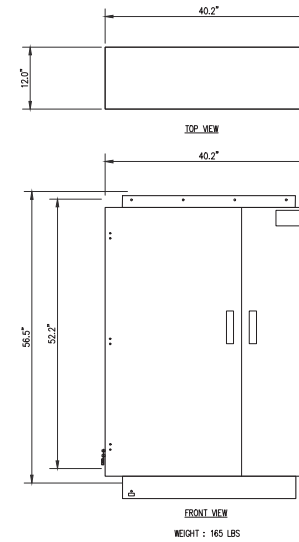


ANTENNA MODEL:
ERICSSON AIR6472 B77G & B77M
SIZE: 36.3\"/>



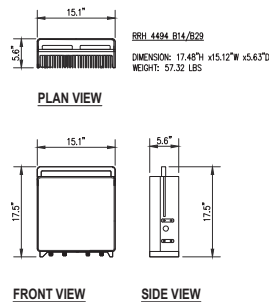
ERICSSON
AIR6472 B77G & B77M ANTENNA
SCALE: 1\"/>

2
S-3



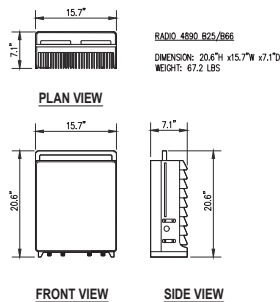
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MANAGEMENT JUNCTION BOX DC50-48-60-96-50F
SCALE: 1\"/>

3
S-3



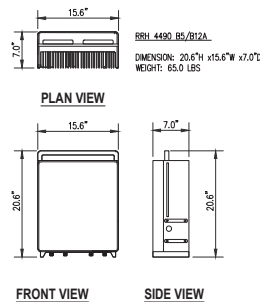
RRH 4494 B14/B29 DETAIL
SCALE: 1\"/>

4
S-3



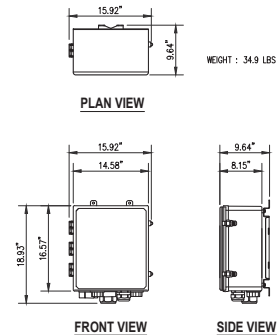
RRH 4890 B25/B66 DETAIL
SCALE: 1\"/>

5
S-3



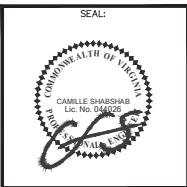
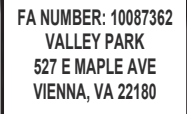
RRH 4490 B5/B12A DETAIL
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6
S-3



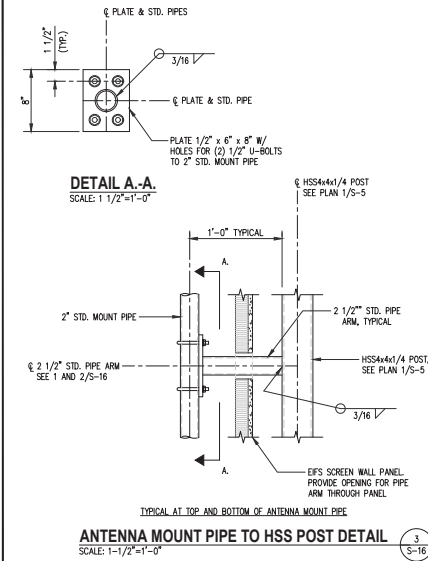
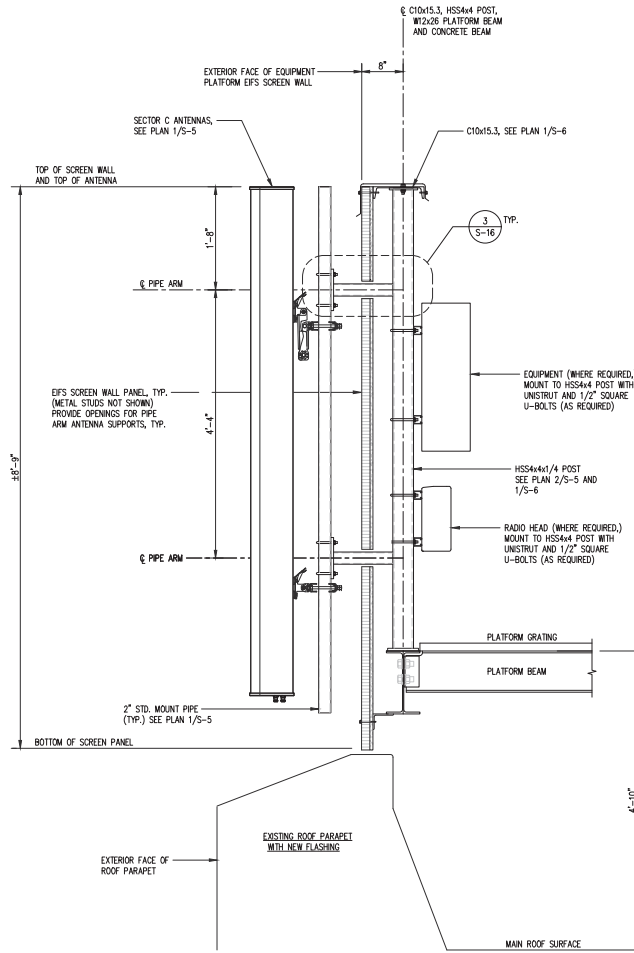
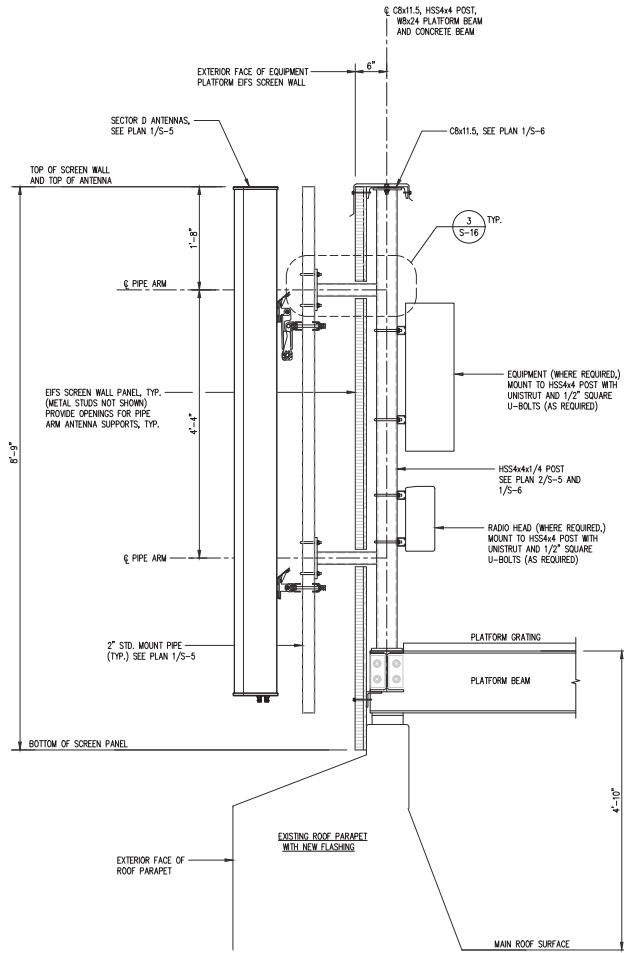
RAYCAP DC9-48-60-24-PC16-EV
SCALE: 1\"/>

7
S-3



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PROJECT NO:	1152.443
DESIGNER:	M.A.
ENGINEER:	C.S.
THESE DRAWINGS ARE FORMATED TO BE FULL-SIZE AT 22"X34"	
GRAPHIC SCALE IN INCHES	
SHEET TITLE:	
ANTENNA & RRH DETAILS	
SHEET NUMBER:	
S-3	



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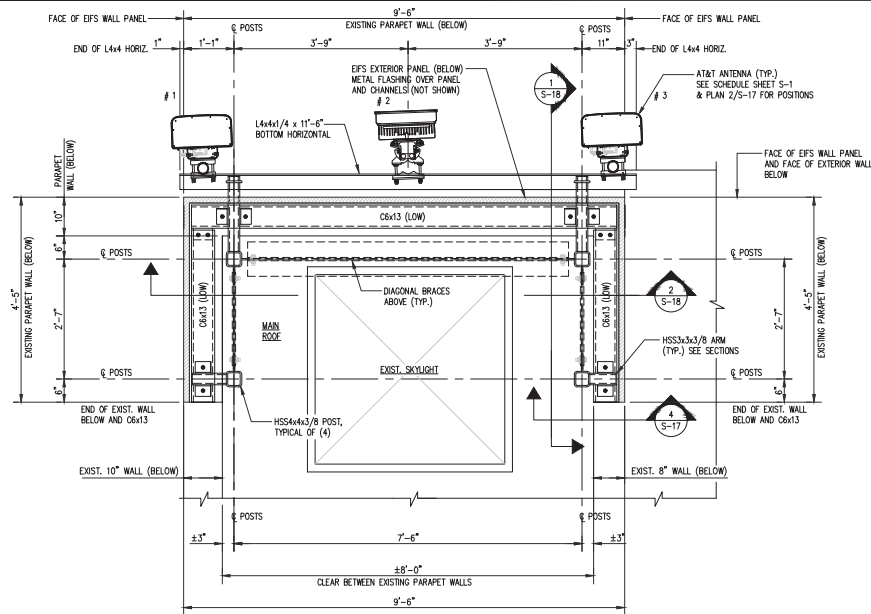
PROJECT NO: 1152.443
DESIGNER: TMF
ENGINEER: C.S.

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TO BE FULL-SIZE AT 22"X34"
GRAPHIC SCALE IN INCHES

SHEET TITLE:
**ANTENNA
SECTORS C AND D
SUPPORT DETAILS**

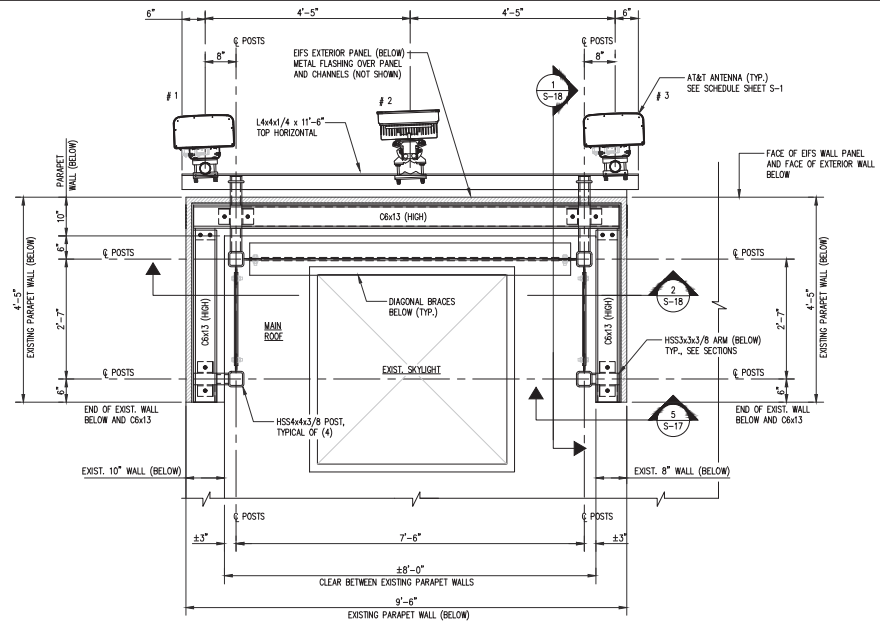
SHEET NUMBER:

S-16



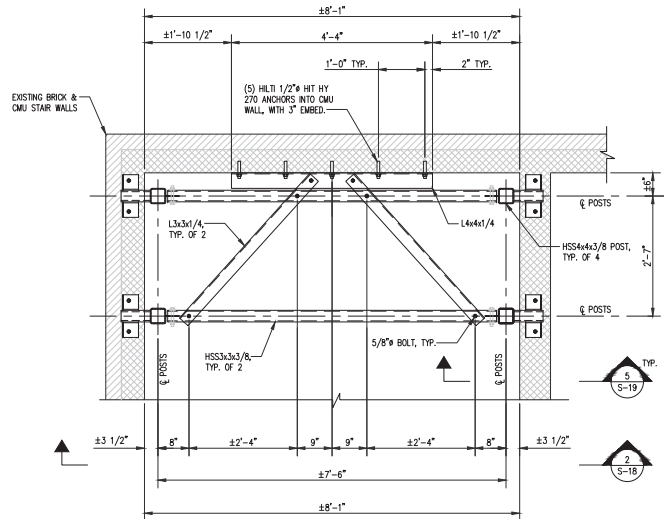
SECTOR A - SCREEN WALL BOTTOM FRAMING PLAN

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



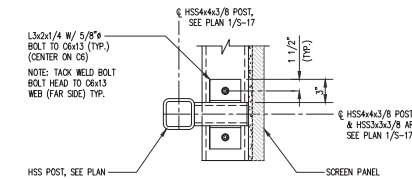
SECTOR A - SCREEN WALL TOP FRAMING PLAN

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

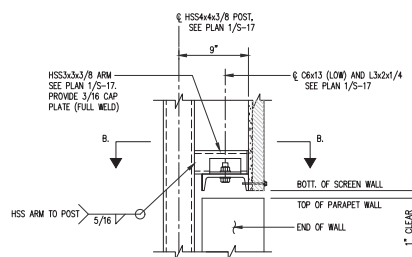


SECTOR A - SCREEN WALL POST PLAN INSIDE STAIRWELL

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

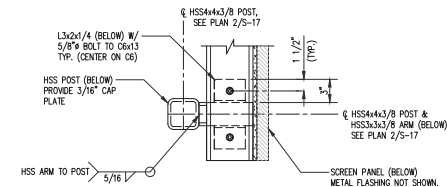


PLAN B-B.

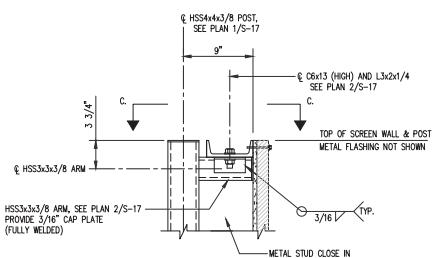


SECTOR A - SCREEN BOTTOM SUPPORT DETAILS

SCALE: 1 1/2" = 1'-0"

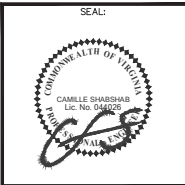
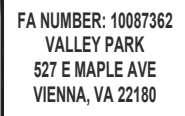


PLAN C-C.



SECTOR A - SCREEN TOP SUPPORT DETAILS

SCALE: 1 1/2" = 1'-0"



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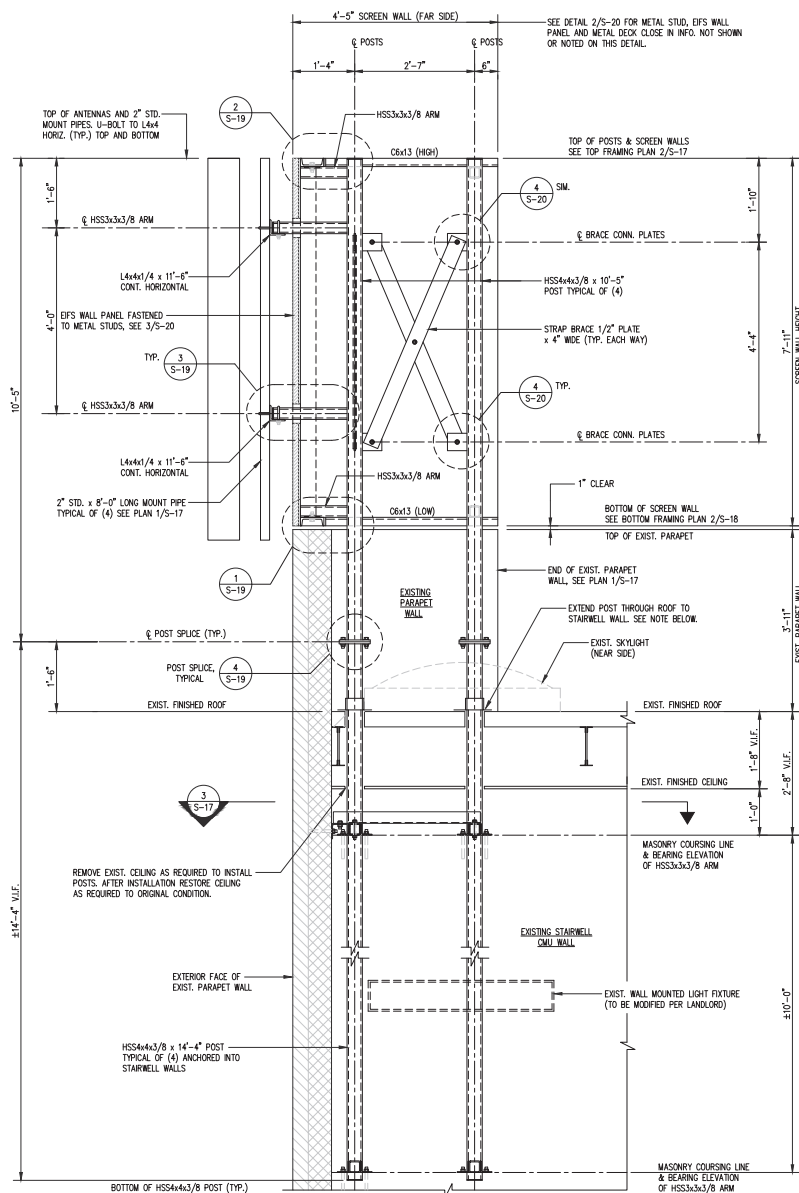
PROJECT NO: 1152.443
DESIGNER: M.A.
ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED TO BE FULL-SCALE AT 22/04/24
GRAPHIC SCALE IN INCHES
SHEET TITLE:

**ANTENNA
SECTOR A SUPPORT
PLANS AND DETAILS**

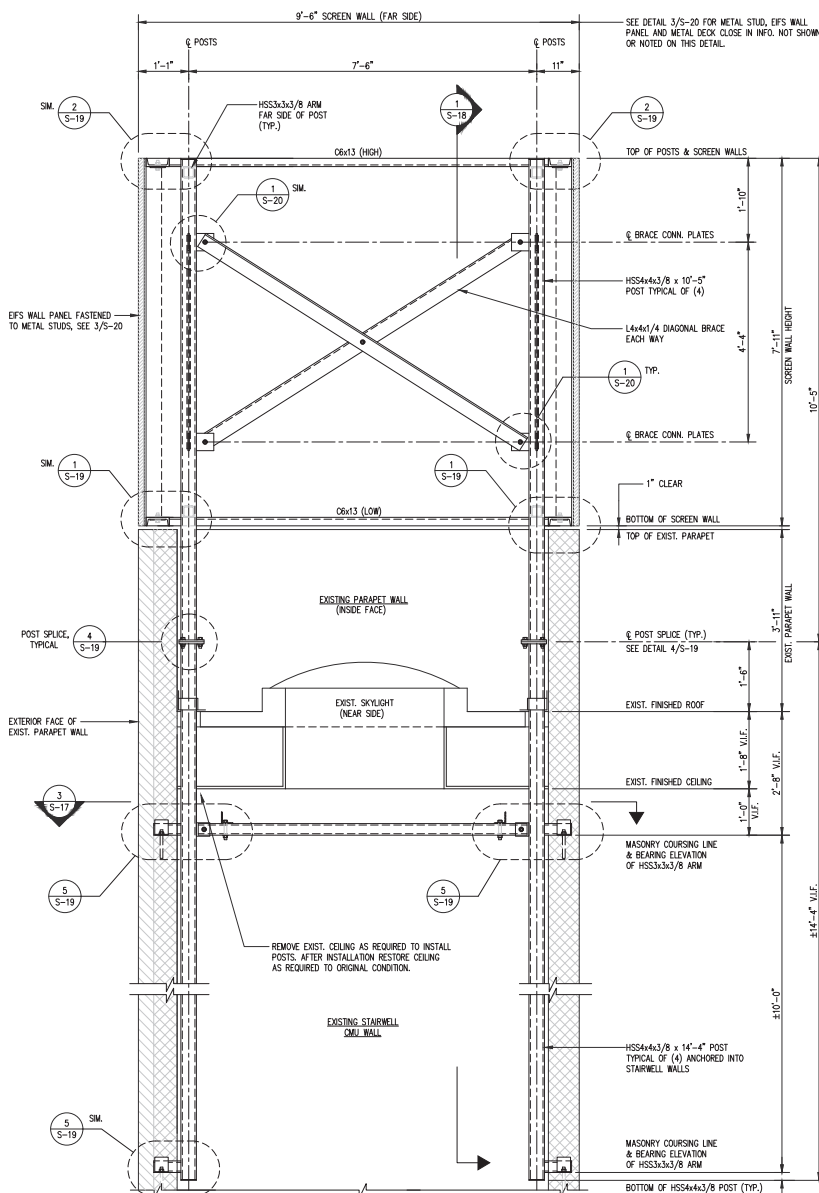
SHEET NUMBER:

S-17



ANTENNA MOUNT SUPPORT SECTION
SCALE: 3/4" = 1'-0"

1
S-18



ANTENNA MOUNT SUPPORT SECTION
SCALE: 3/4" = 1'-0"

2
S-18



9000 MENDENHALL CT
COLUMBIA, MD 21045



6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
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10 CHURCH CIRCLE
ANNAPOLIS, MD 21401
PHONE: (410) 582-8843

FA NUMBER: 10087362
VALLEY PARK
527 E MAPLE AVE
VIENNA, VA 22180

SEAL:



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PROJECT NO: 1152.443

DESIGNER: TMF

ENGINEER: C.S.

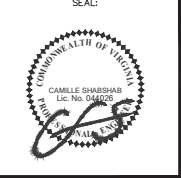
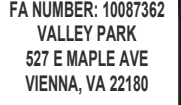
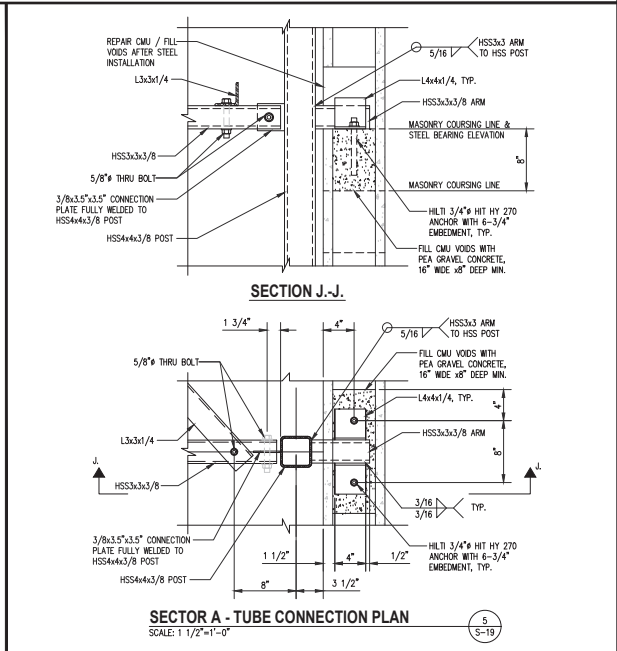
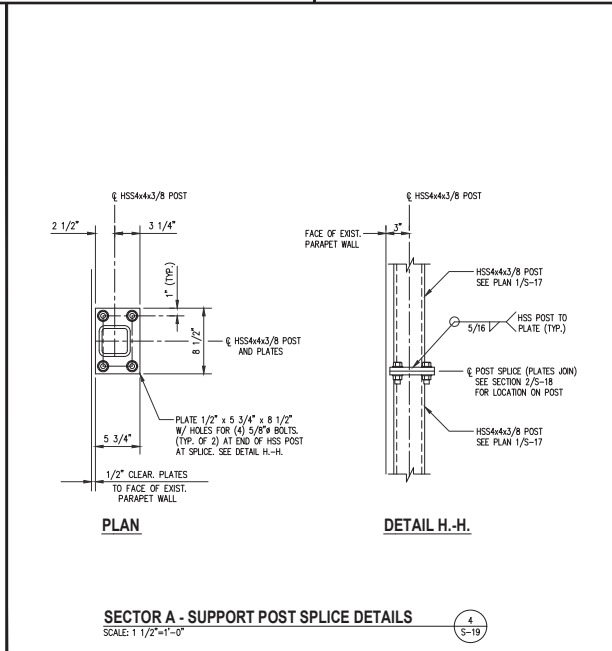
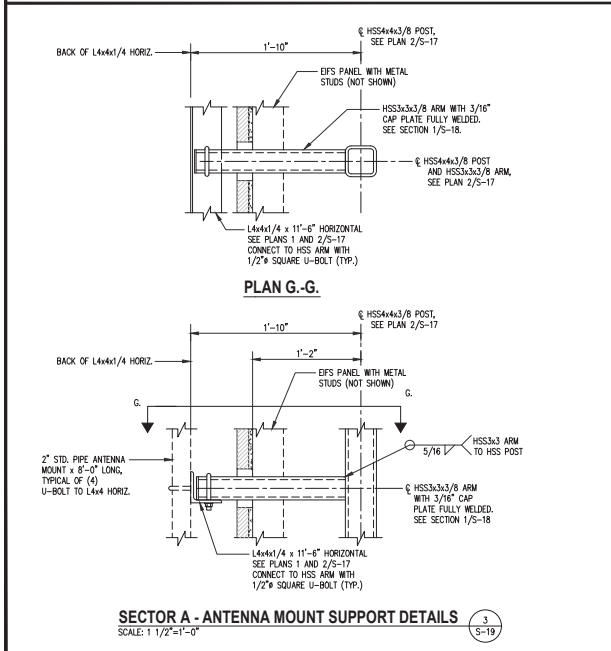
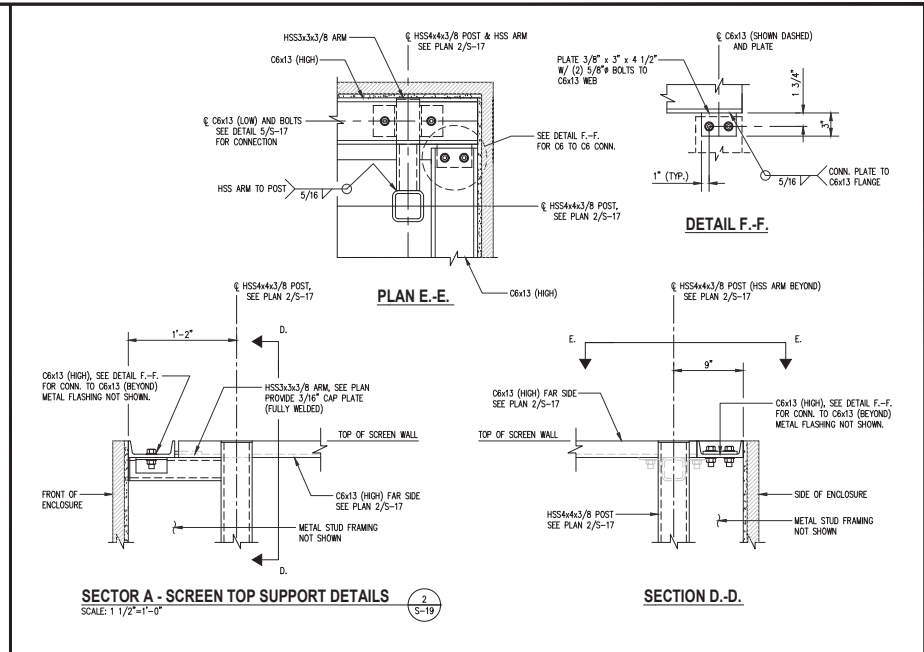
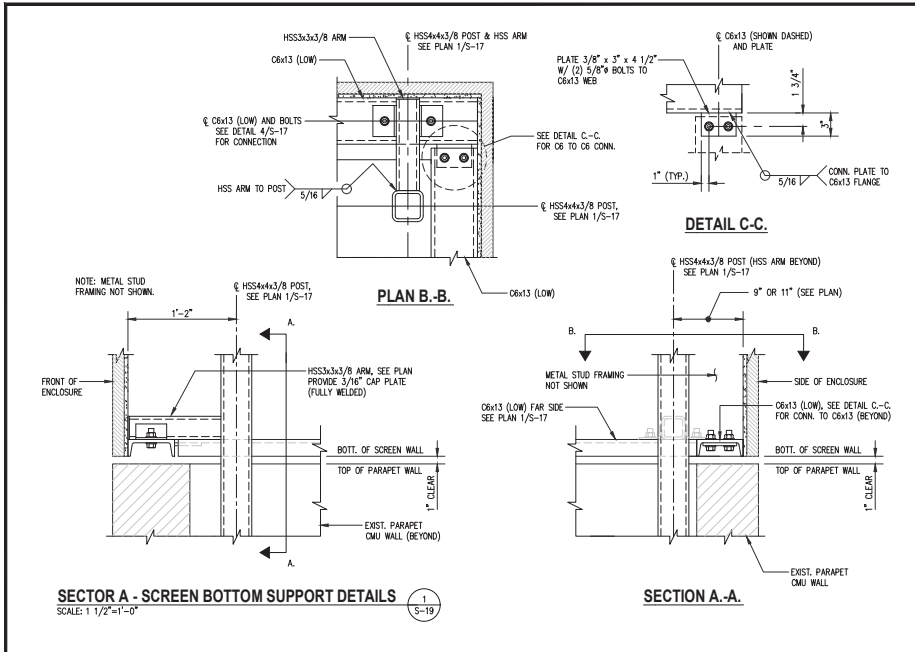
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0 1/2 1
GRAPHIC SCALE IN INCHES

SHEET TITLE:

**ANTENNA
SECTOR A SUPPORT
DETAILS**

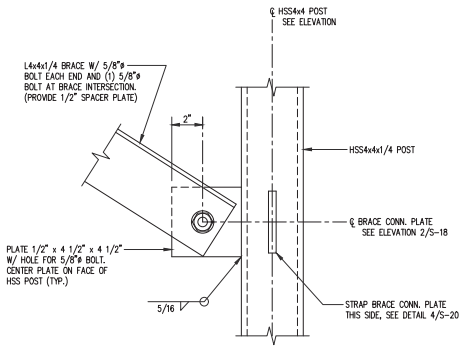
SHEET NUMBER:

S-18



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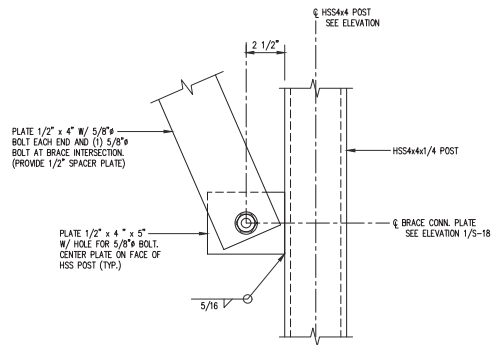
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DESIGNER:	TMF
ENGINEER:	C.S.
THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34" 0 1/2 1 GRAPHIC SCALE IN INCHES	
SHEET TITLE:	
ANTENNA SECTOR A SUPPORT DETAILS	
SHEET NUMBER:	
S-19	



BRACE BOTTOM CONN. SHOWN. TOP CONNECTION SIMILAR.

BRACE CONNECTION DETAIL
SCALE: 3\"/>

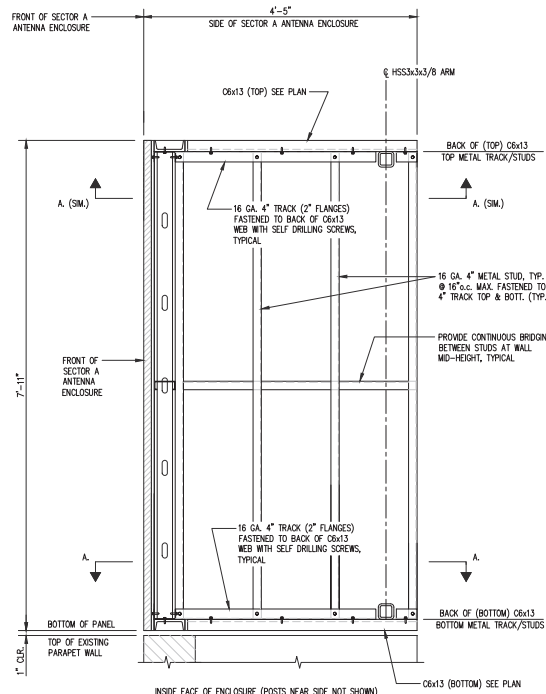
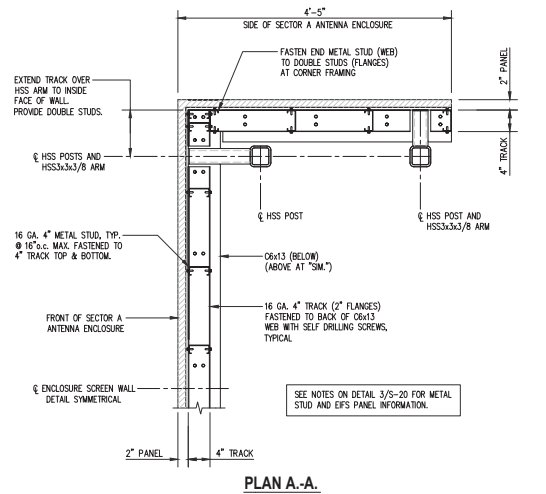
1
S-20



BRACE BOTTOM CONN. SHOWN. TOP CONNECTION SIMILAR.

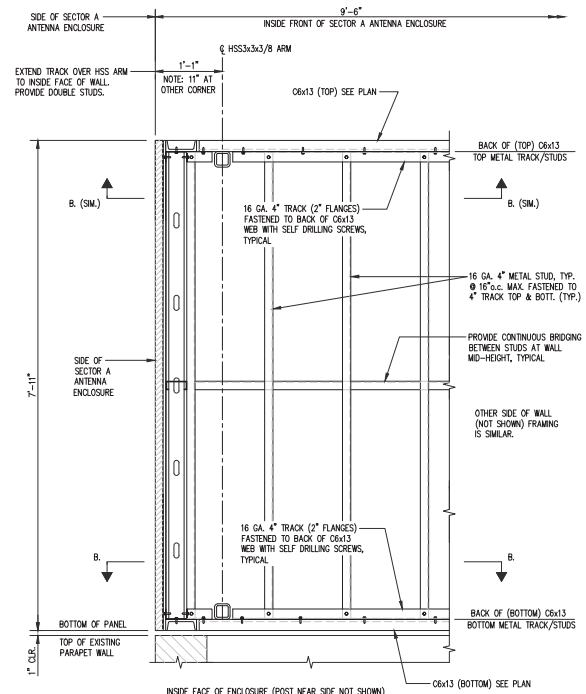
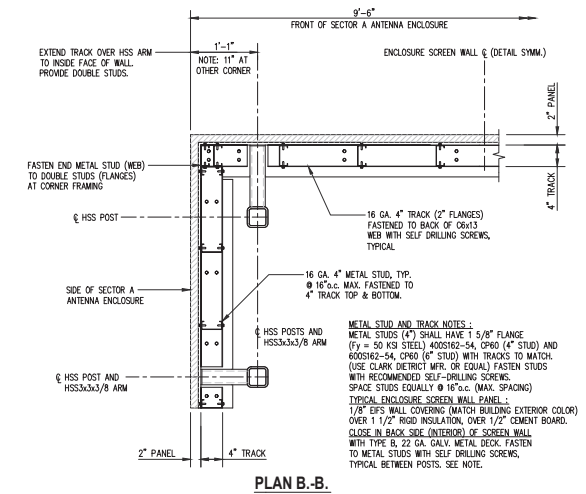
STRAP BRACE CONNECTION DETAIL
SCALE: 3\"/>

4
S-20



SCREEN WALL FRAMING ELEVATION
SCALE: 1\"/>

2
S-20



SCREEN WALL FRAMING ELEVATION
SCALE: 1\"/>

3
S-20



900 MENDENHALL CT
COLUMBIA, MD 21045

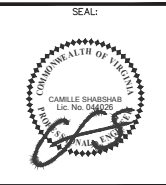


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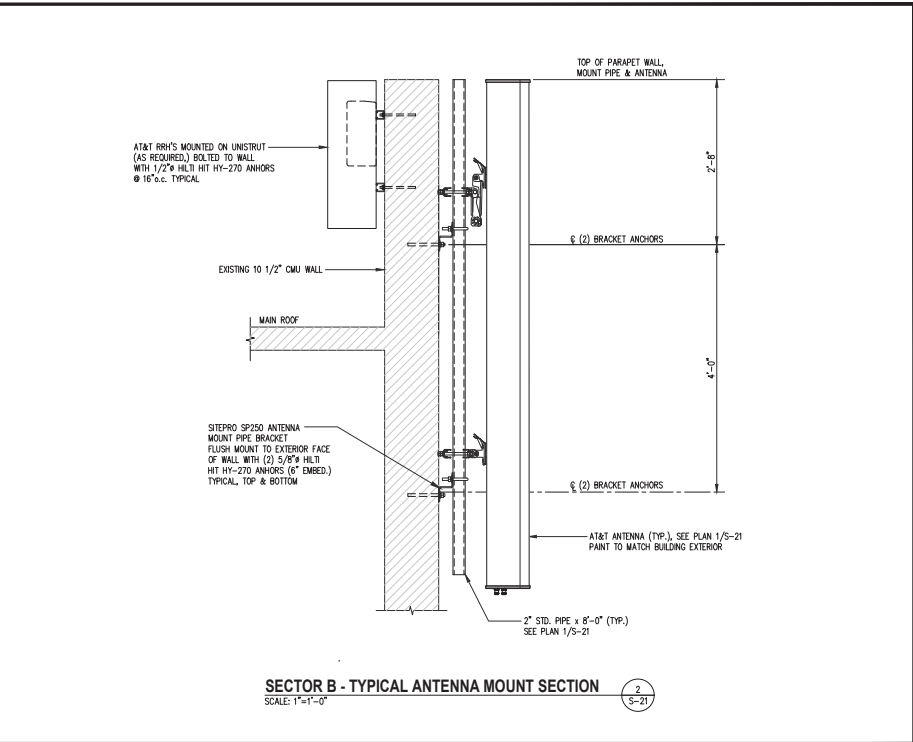
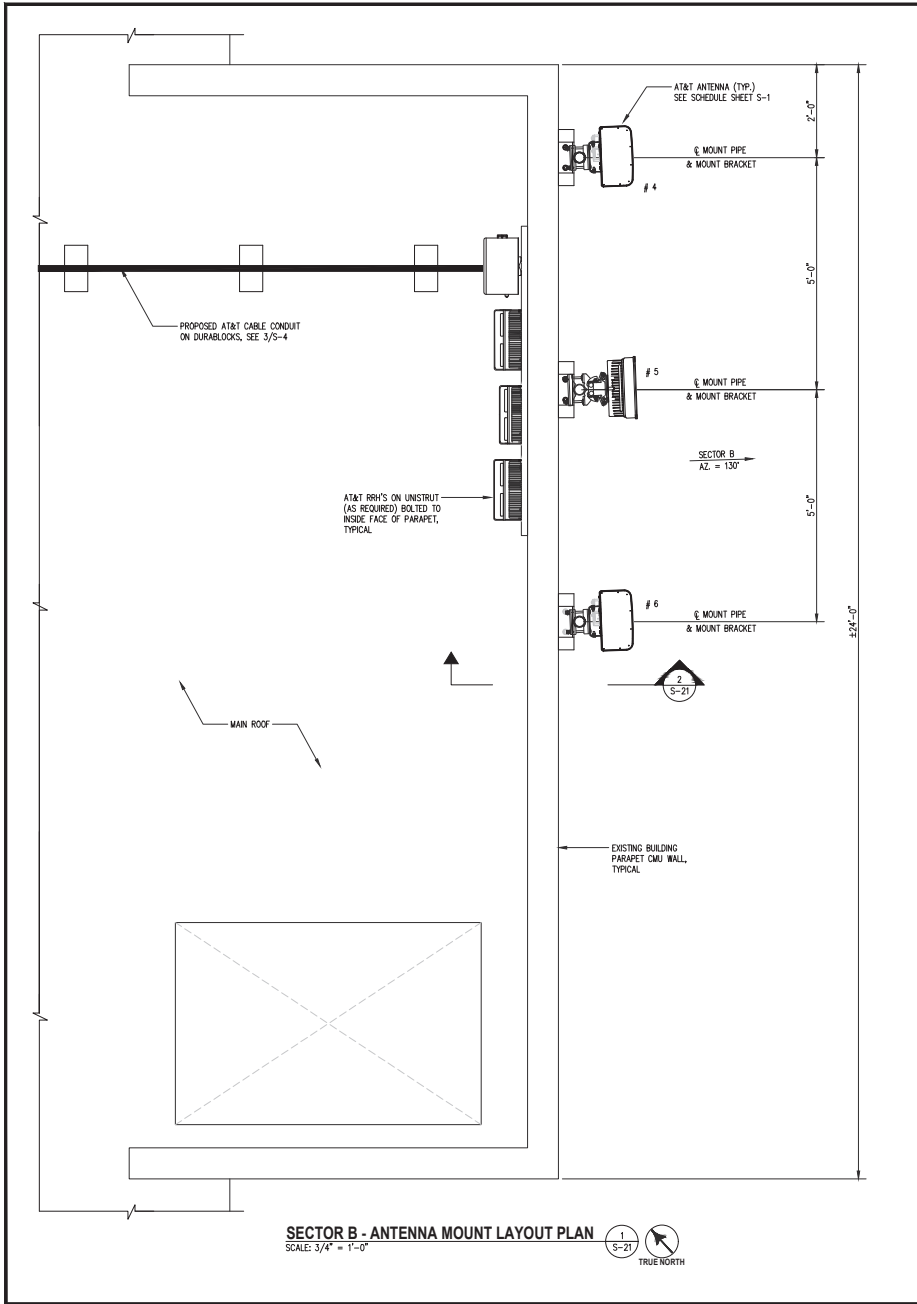
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0 1/2 1
GRAPHIC SCALE IN INCHES

SHEET TITLE:

**ANTENNA
SECTOR A SUPPORT
DETAILS**

SHEET NUMBER:

S-20




900 MENDENHALL CT
COLUMBIA, MD 21045


communication services, inc.
6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
PHONE: (202) 488-0960


10 CHURCH CIRCLE
ANNAPOLIS, MD 21401
PHONE: (410) 582-8843

FA NUMBER: 10087362
VALLEY PARK
527 E MAPLE AVE
VIENNA, VA 22180

SEAL:


SUBMITTALS		
DATE	DESCRIPTION	REV.
11-22-2022	CONSTRUCTION REVIEW	A
01-30-2023	CONSTRUCTION	0
12-09-2024	REV. PER 03/12/2024 RFDS	1
12-18-2024	REMOVE FUTURE ANTENNA	2
02-28-2025	ADD GAS DESIGN	3
04-16-2025	REVIEW REDLINES	4
06-09-2025	REMOVE GENERATOR	5

PROJECT NO: 1152.443
DESIGNER: M.A.
ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED
TO BE FULL-SIZE AT 2275x4
GRAPHIC SCALE IN INCHES
0 1/2 1

SHEET TITLE:
**ANTENNA
SECTOR B SUPPORT
PLAN AND DETAILS**

SHEET NUMBER:
S-21