



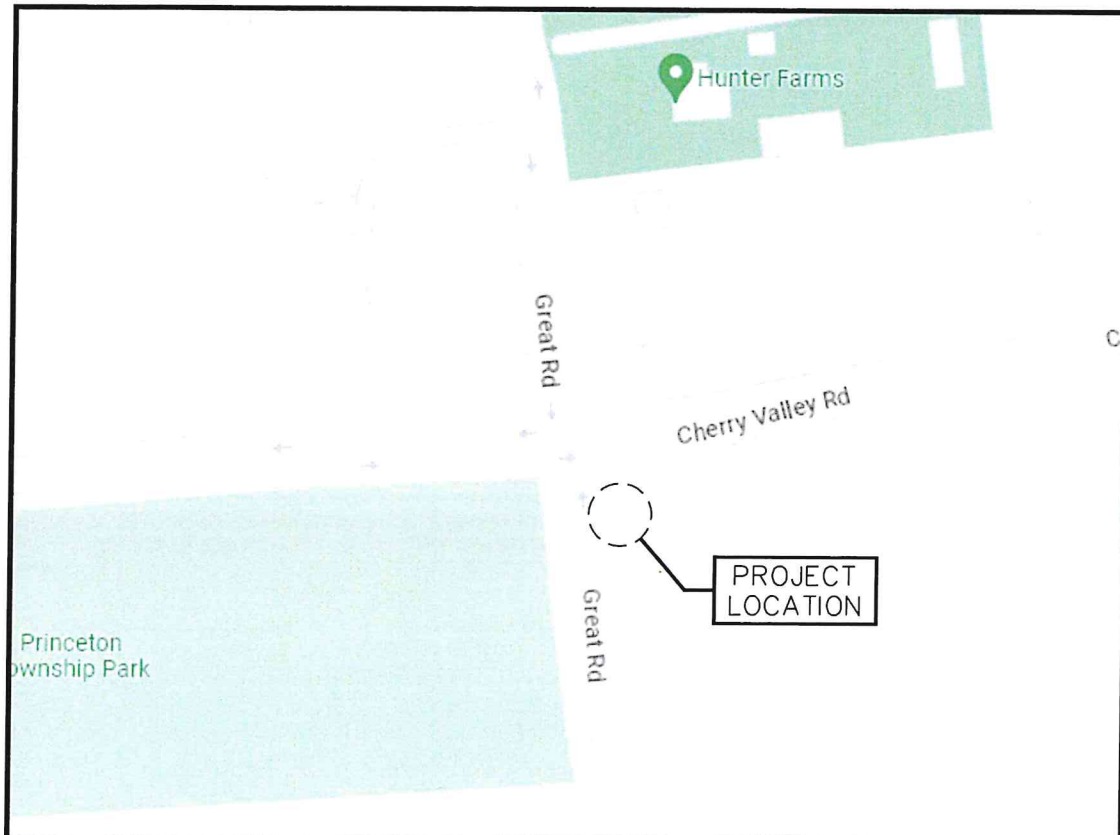
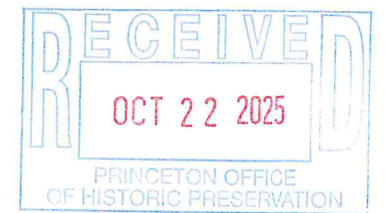
INDEX TO SHEETS	
DWG #	DRAWING TITLE
1	COVER SHEET
2	PROPOSED POLE CONFIGURATION
3	PROPOSED POLE LOCATION PHOTOS (N&S)
4	PROPOSED POLE LOCATION PHOTOS (E&W)
5	PROPOSED EQUIPMENT DETAILS
6	PROPOSED ANTENNA DETAILS
7	PROPOSED RADIO & SITE DETAILS
8	WIRING DIAGRAM
9	DISCONNECT BOX

Crown Castle Fiber LLC

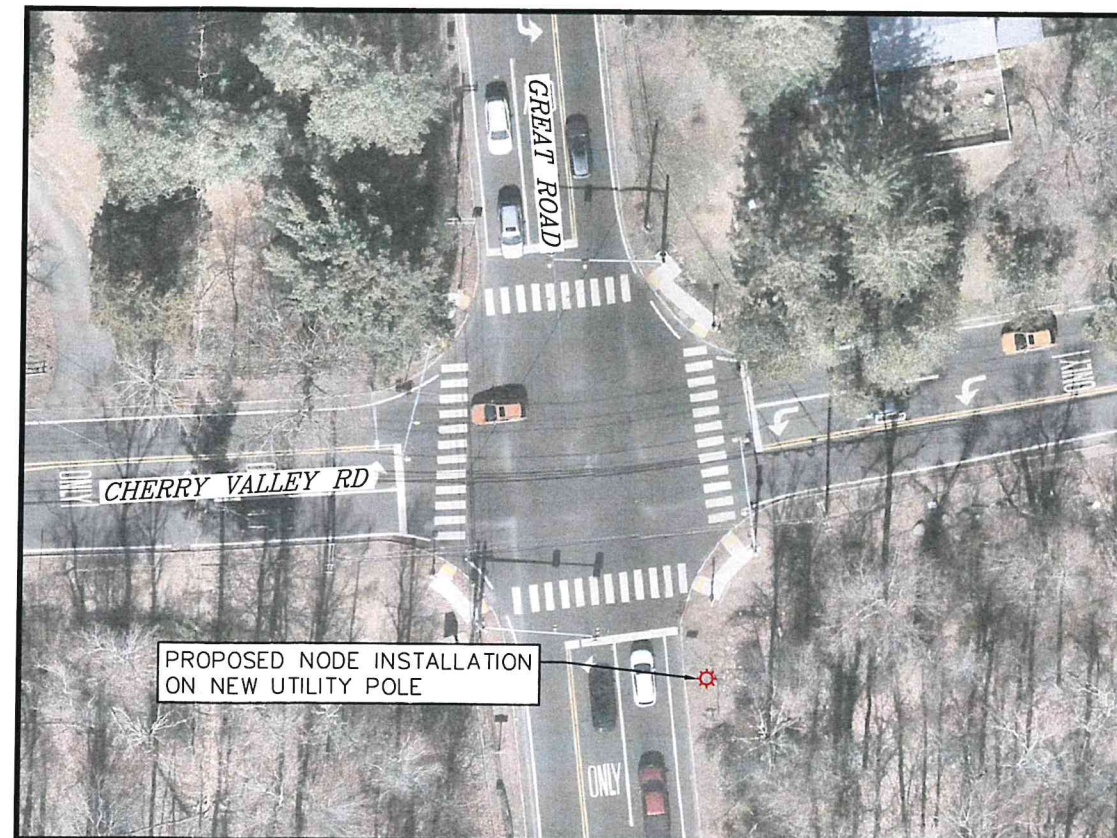
1267 GREAT ROAD

JURISDICTION: MUNICIPALITY OF PRINCETON

PROPOSED SMALL CELL INSTALLATION



NOT TO SCALE



NOT TO SCALE

LOCATION MAP

LATITUDE: 40.38067°N
LONGITUDE: -74.69774°W
BLOCK: 401, LOT: 1

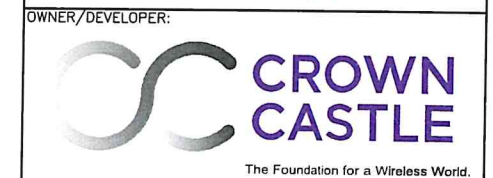


Know what's below.
Call before you dig.

NODE PLACEMENT

1267 GREAT ROAD
PROPOSED CROWN CASTLE WOOD POLE
ON THE SOUTHEAST CORNER OF
CHERRY VALLEY RD AND GREAT RD
POLE ID: TBD

Peter J. Tardy 09/02/2025 DATE
PETER J. TARDY, PE NEW JERSEY PROFESSIONAL ENGINEER LIC NO 41990



TITLE:
CROWN CASTLE FIBER LLC
1267 GREAT ROAD
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

REVISIONS		
REV.	DATE	REVISION DESCRIPTION
0	05/08/25	ISSUED FOR REVIEW
1	06/04/25	REVISED POLE HEIGHT
2	06/26/25	ISSUED AS FINAL
3	09/02/25	REVISED PER COMMENTS

DRAWN BY:	CHECKED BY:	APPROVED BY:
ARC	ARC	PJT

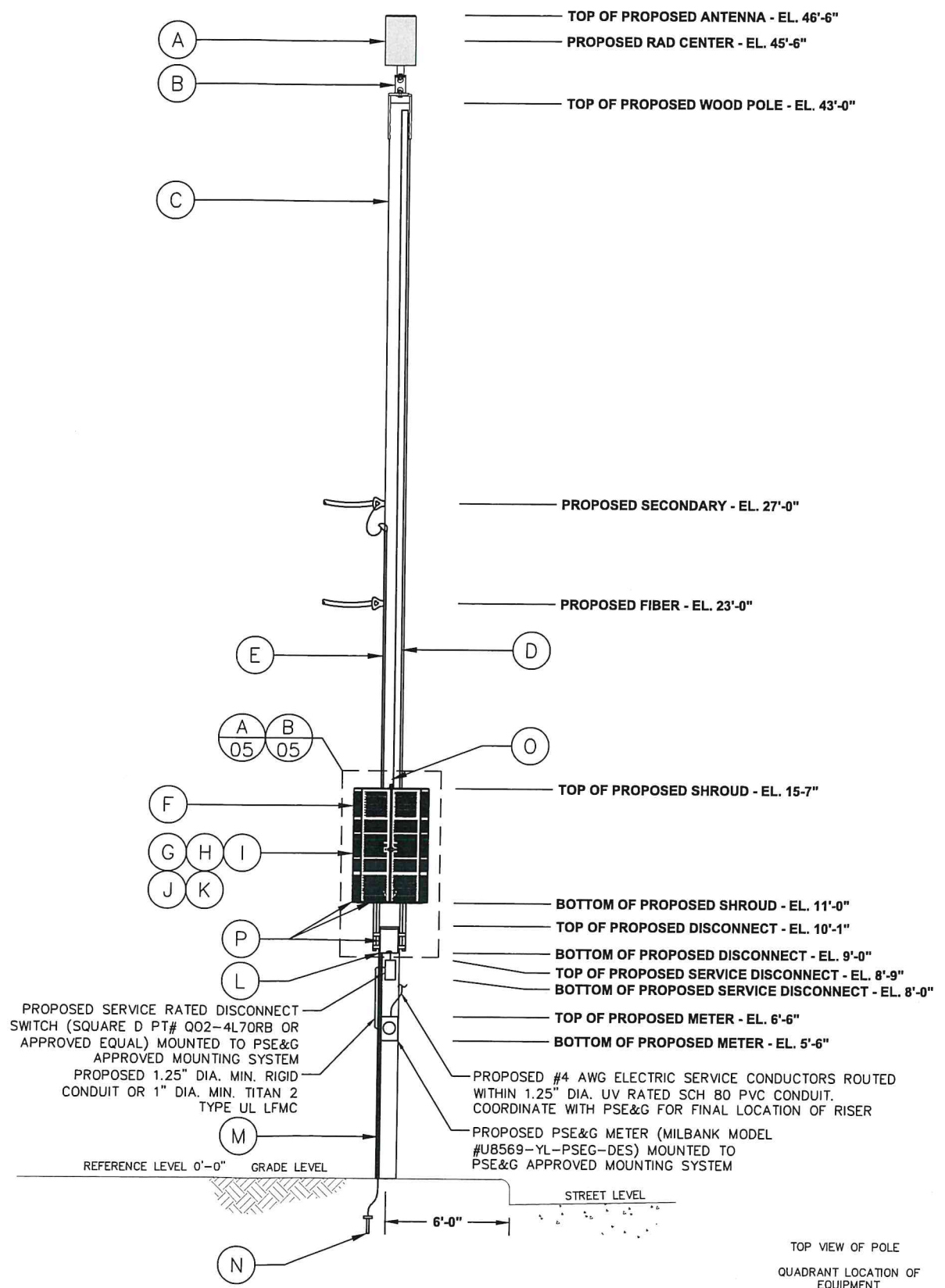
PROJECT NUMBER:	2438C.212
NODE ID:	PCT-015
SCU # / CASCADE ID:	410666/5000884478
DATE DRAWN:	05/08/25

SHEET:
1 of 9

NOTES:
1. POINT OF CONTACT FOR POWER AND TELCO TO BE DETERMINED PENDING UTILITY COORDINATION.
2. PROPOSED SECONDARY AND FIBER LOCATION AND HEIGHT TBD PENDING UTILITY COORDINATION.



PROPOSED POLE LOCATION



PROPOSED POLE DETAIL
LOOKING SOUTH

- A. PROPOSED ANTENNA:
(1) AMPHENOL 2C6U2VT360X06F0404
24.0"x14.6" (HxW) - 28.0 LBS
- B. PROPOSED POLE TOP MOUNT:
(1) NYA MK-183
TO BE THRU-BOLTED TO POLE
MOUNT COLOR: BROWN
- C. PROPOSED POLE:
INSTALL NEW 50' CLASS 2 WOOD POLE
HEIGHT = 43'-0" (AGL)
- D. INSTALL 4" PVC RISER U-GUARD:
PROPOSED #4 AWG GROUND WIRE AND COAX/FIBER CABLES
TO BE ROUTED WITHIN
- E. INSTALL 1.25" PVC SCH. 80 POWER RISER CONDUIT FROM
DISCONNECT TO SECONDARY
- F. INSTALL SHROUD CABINET:
RAYCAP RAES-225408-B
55.0"x36.0"x20.0" (HxWxD) - 550 LBS
EQUIPMENT COLOR: BROWN
TO BE THRU-BOLTED TO POLE
- G. INSTALL RADIO UNIT WITHIN NEW SHROUD CABINET:
(1) SAMSUNG RADIO RFV01U-D1A B2 B66
19.73"x15.96"x10.04" (HxWxD) - 84.4 LBS
- H. INSTALL RADIO UNIT WITHIN NEW SHROUD CABINET:
(1) SAMSUNG RADIO RFV01U-D2A B5 B13
19.73"x15.0"x8.1" (HxWxD) - 70.3 LBS
- I. INSTALL DIPLEXER WITHIN NEW SHROUD CABINET:
(1) COMMSCOPE SDX19280-43
4.17"x6.93"x2.91" (HxWxD) - 6.17 LBS
- J. INSTALL DIPLEXER WITHIN NEW SHROUD CABINET:
(4) COMMSCOPE C8C78-DS-43
6.38"x6.93"x2.89" (HxWxD) - 3.95 LBS
- K. INSTALL RECTIFIER WITHIN NEW SHROUD CABINET:
(2) DELTA ESR-48/38A U-5
15.5"x11.3"x3.7" (HxWxD) - 21.0 LBS
- L. INSTALL 100A LOAD CENTER:
(1) SQUARE D Q0612L100TRB
12.44"x8.9"x4.02" (HxWxD) - 9.26 LBS
EQUIPMENT COLOR: BROWN
TO BE MOUNTED BELOW EQUIPMENT SHROUD
- M. INSTALL 1" PVC U-GUARD:
PROPOSED #4 AWG GROUND WIRE ROUTED WITHIN
- N. INSTALL 8' GROUND ROD
- O. INSTALL (2) "YELLOW" CAUTION SIGNS ABOVE EQUIPMENT
SHROUD ON EITHER SIDE OF POLE
- P. INSTALL SITE ID SIGN ON BOTTOM LEFT CORNER OF EQUIPMENT
SHROUD AND INSIDE DOOR OF DISCONNECT

Peter J. Tardy
09/02/2025
DATE
PETER J. TARDY, PE
NEW JERSEY PROFESSIONAL ENGINEER
LIC NO 41990

ENGINEER:

Camden Office:
2 Riverside Drive, Suite 503
Camden, New Jersey 08101
609.862.1582
FPAEngineers.com
New Jersey • New York • Pennsylvania • Massachusetts

OWNER/DEVELOPER:

The Foundation for a Wireless World.

TITLE:
CROWN CASTLE FIBER LLC
1267 GREAT ROAD
PRINCETON, NJ
JURISDICTION: MUNICIPALITY OF PRINCETON

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SHEET:	2 of 9	



PROPOSED POLE LOCATION PHOTO
LOOKING NORTH



PROPOSED POLE LOCATION PHOTO
LOOKING SOUTH

Peter J. Tardy 09/02/2025
DATE

PETER J. TARDY, PE
NEW JERSEY PROFESSIONAL ENGINEER LIC NO 41990

ENGINEER:

FPA
FRENCH & PARRELLO
ASSOCIATES

Camden Office:
2 Riverside Drive, Suite 503
Camden, New Jersey 08101
609.862.1582
FPAengineers.com

New Jersey New York Pennsylvania Massachusetts

OWNER/DEVELOPER:

CROWN CASTLE
The Foundation for a Wireless World.

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SHEET:	3 of 9




PROPOSED POLE LOCATION PHOTO
LOOKING EAST



PROPOSED POLE LOCATION PHOTO
LOOKING WEST

Peter J. Tardy 09/02/2025
 PETER J. TARDY, PE DATE
 NEW JERSEY PROFESSIONAL ENGINEER LIC NO 41990
 ENGINEER:
FPA Camden Office:
 FRENCH & PARRELLO 2 Riverside Drive, Suite 503
 ASSOCIATES Camden, New Jersey 08101
 FPAengineers.com 609.662.1582
 New Jersey • New York • Pennsylvania • Massachusetts

OWNER/DEVELOPER:
 **CROWN CASTLE**
 The Foundation for a Wireless World.

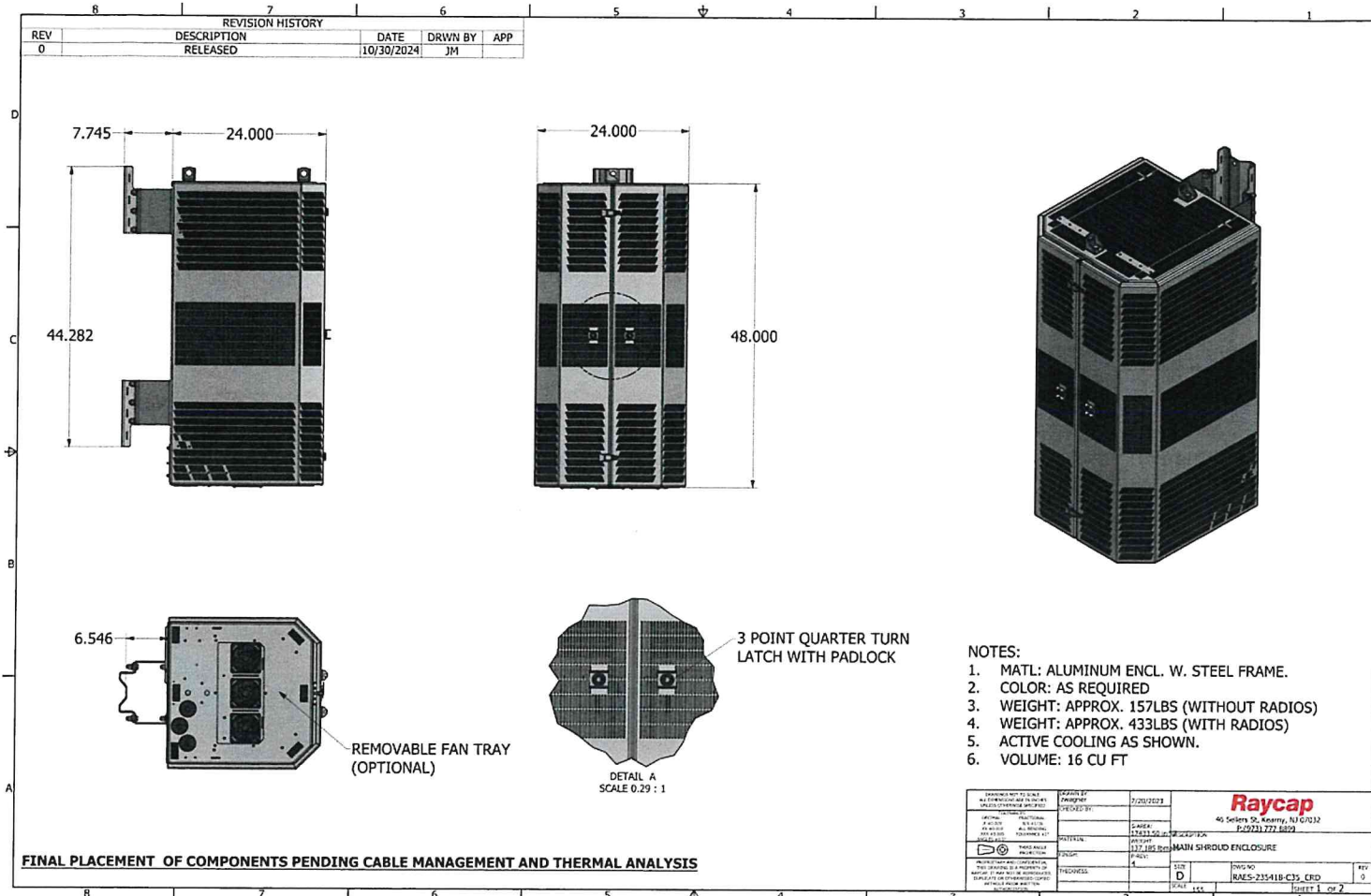
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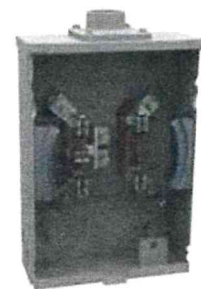
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SHEET: 4 of 9



DETAIL A
RAYCAP RAES-235418-C35
SHROUD



MECHANICAL SPECIFICATIONS:
HEIGHT: 11.5 IN.
WIDTH: 8.0 IN.
DEPTH: 3.3 IN.

MILBANK U8569-yl-pseg-des
METER PAN



MECHANICAL SPECIFICATIONS:
HEIGHT: 9.37 IN.
WIDTH: 4.88 IN.
WEIGHT: 5.05 LBS.

SQUARE D Q02-4L70RB
DISCONNECT



MECHANICAL SPECIFICATIONS:
HEIGHT: 12.44 IN.
WIDTH: 8.90 IN.
DEPTH: 4.02 IN.
WEIGHT: 9.26 LBS.

SQUARE D Q0612L100TRB
LOAD CENTER

Peter J. Tardy 09/02/2025
DATE
PETER J. TARDY, PE
NEW JERSEY PROFESSIONAL ENGINEER LIC NO 41990

ENGINEER:

Camden Office:
2 Riverside Drive, Suite 503
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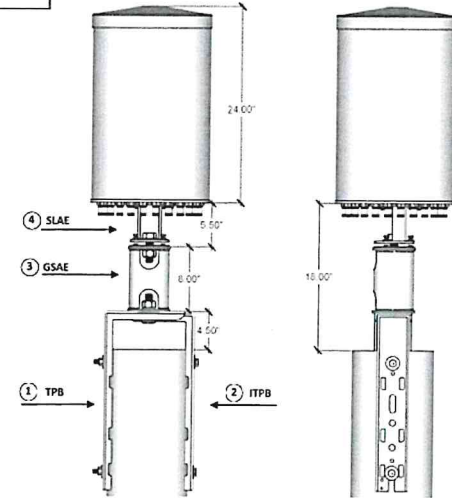
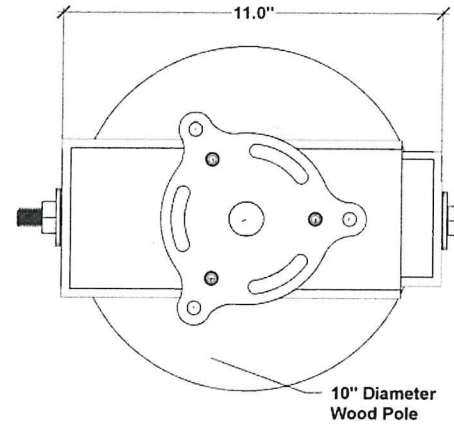
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SHEET:	5 of 9

ITEM NO.	PART NUMBER	DESCRIPTION PART NAME	DIMENSIONS	MATERIAL	QTY	UNIT WT. LBS.
1	TPB	Top Pole Bracket	Length 10" Width 4.60" Height 22"	Hot Rolled Steel, Galvanized	x1	11.25 lbs.
2	ITPB	Interlock Top Pole Bracket	Length 8.10" Width 3.90" Height 21.75"	Hot Rolled Steel, Galvanized	x1	9 lbs.
3	GSAE-10	Galvanized Steel Antenna Extension 8" Height	Height 8" Diameter 5" Flange 5.375"	Steel Tubing	x1	8 lbs.
4	SLAE	Self Leveling Antenna Extension	Length 6" Width 6" Height 5.25"	Hot Rolled Steel, Galvanized	x1	4 lbs.



NYM MK-183
POLE TOP MOUNT



6 Calm Street Rochester, NY 14611
P: 585-254-9353 NYMFG.COM

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FILE: MK-183

COMMENTS:

DESCRIPTION:
Wood Pole Top

DRAWN BY: SAL ANSELMO DATE: 2/21/2023

REV	DESCRIPTION	DATE	BY

PAGE: 1 of 4

PART NUMBER:
MK-183-PT-PC8028



MECHANICAL SPECIFICATIONS:
HEIGHT: 24 IN.
DIAMETER: 14.6 IN.
WEIGHT: 28.0 LBS.

AMPHENOL
2C6U2VT360X06F040s4
ANTENNA

Peter J. Tardy 09/02/2025 DATE
PETER J. TARDY, PE LIC NO 41990
NEW JERSEY PROFESSIONAL ENGINEER


ENGINEER:



FRENCH & PARRELLO ASSOCIATES
New Jersey • New York • Pennsylvania • Massachusetts

Camden Office:
2 Riverside Drive, Suite 503
Camden, New Jersey 08101
609.862.1582
FPAengineers.com

OWNER/DEVELOPER:



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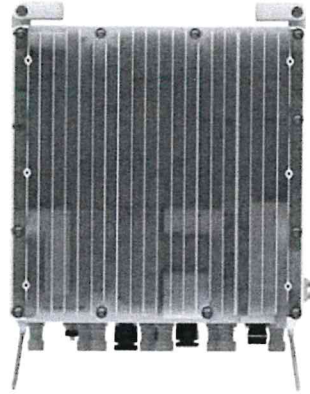
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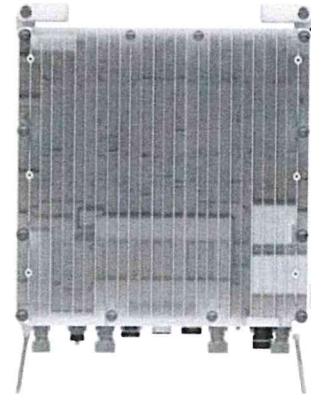
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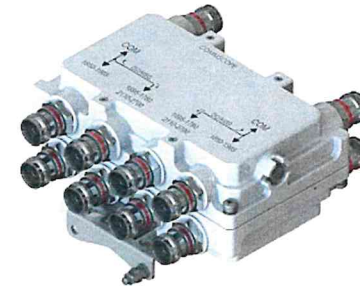
MECHANICAL SPECIFICATIONS:
HEIGHT: 19.73 IN.
WIDTH: 15.96 IN.
DEPTH: 10.04 IN.
WEIGHT: 84.4 LBS.

SAMSUNG
RADIO RFV01U-D1A B2 B66



MECHANICAL SPECIFICATIONS:
HEIGHT: 19.73 IN.
WIDTH: 15.0 IN.
DEPTH: 8.1 IN.
WEIGHT: 70.3 LBS.

SAMSUNG
RADIO RFV01U-D2A B5 B13



MECHANICAL SPECIFICATIONS:
HEIGHT: 4.17 IN.
WIDTH: 6.93 IN.
DEPTH: 2.91 IN.
WEIGHT: 6.17 LBS.

COMMSCOPE
DIPLEXER SDX1926Q-43



MECHANICAL SPECIFICATIONS:
HEIGHT: 15.5 IN.
WIDTH: 11.3 IN.
DEPTH: 3.7 IN.
WEIGHT: 21.0 LBS.

DELTA
RECTIFIER ESR-48/38A U-S

CAUTION

FCC Occupational Limits may be exceeded near the antenna above this sign. RF-trained personnel only permitted in this area. Call **888-632-0931** for instructions.

Site ID: _____ Rev.B

- NOTES:**
- SIGNAGE ATTACHED ON:
WOOD POLES = SIGN ON ALUMINUM WITH STAINLESS STEEL SCREWS.
METAL POLES = ADHESIVE VINYL OR PLACARD STRAPPED WITH STAINLESS STEEL TIES.
CONCRETE/COMPOSITE = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
FIBERGLASS = PLACARD STRAPPED WITH STAINLESS STEEL TIES.
 - AFFIX SIGN TO THE STRUCTURE AS PER EME REPORT.
 - THE SIGN MUST BE COMPLETELY READABLE FROM OUTSIDE THE DANGER ZONE.

RF "YELLOW"
CAUTION SIGN

CROWN CASTLE CrownCastle.com

FOR LEASE INFORMATION: **877-486-9377**

FOR EMERGENCY 24 HOUR SERVICE: **888-632-0931**

SYSTEM NAME:
A LOC SCU:
Z LOC SCU:
SITE ADDRESS:

SITE ID SIGN

Peter J. Tardy 09/02/2025 DATE
PETER J. TARDY, PE NEW JERSEY PROFESSIONAL ENGINEER LIC NO 41990
ENGINEER:

FPA
FRENCH & PARRELLO ASSOCIATES
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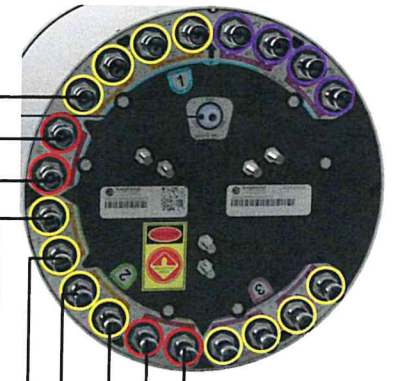
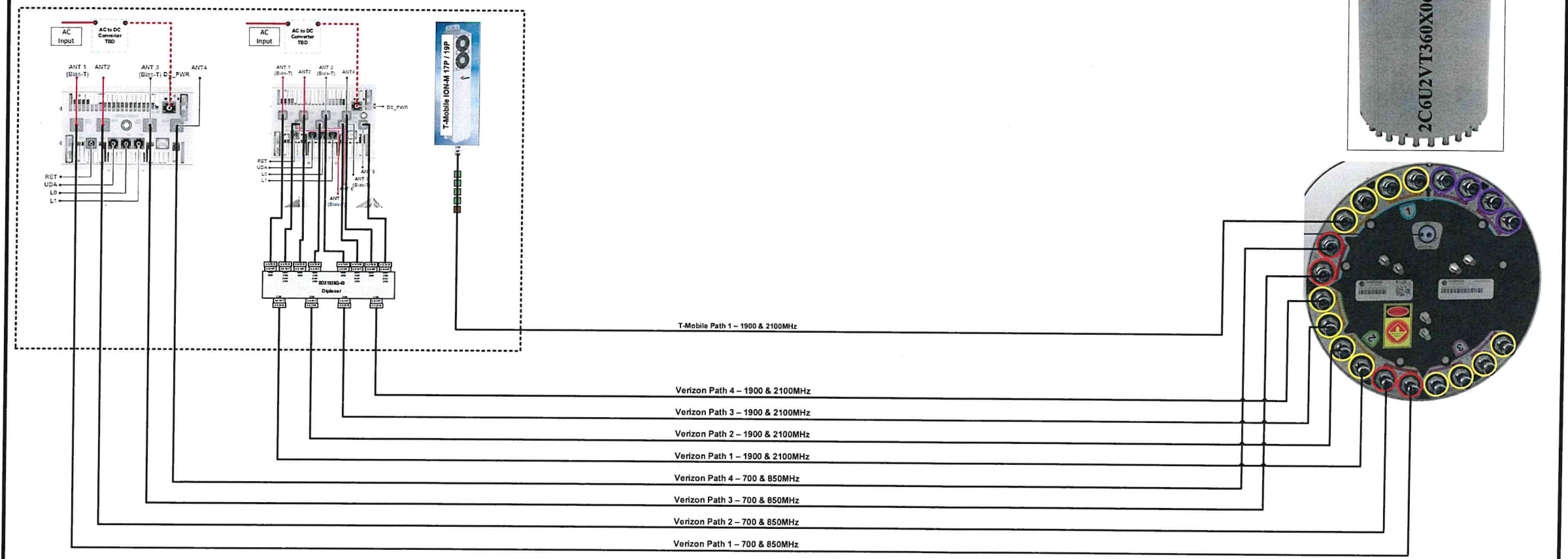
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SHEET:	7 of 9	

Scenario Name:-
Scenario 109

Project:- Princeton
Date Created:- 10/31/2023
Cluster Name:- Philadelphia Market

Designed by:- Prashant Patel
Customer:- Verizon
Revision:- 1
Sheet:- 109



Carrier	Band (MHz)	Color	Description	Path 1	Path 2	Comments
Verizon	700	1x Red	Brown	Brown/Brown	Alternately named Cellular Band	
	850	2x Red	Brown	Brown/Brown	Alternately named PCS Band	
	1500	3x Red	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
	2100	4x Red	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
AT&T	700	1x Blue	Brown	Brown/Brown	Alternately named Cellular Band	
	850	2x Blue	Brown	Brown/Brown	Alternately named PCS Band	
	1900	3x Blue	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
	2100	4x Blue	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
T-Mobile	700	1x Green	Brown	Brown/Brown	Alternately named Cellular Band	
	1900	3x Green	Brown	Brown/Brown	Alternately named PCS Band	
	2100	4x Green	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
Metro	2100	4x Purple	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
Sprint	700	1x Yellow	Brown	Brown/Brown	Alternately named Cellular Band	
	850	2x Yellow	Brown	Brown/Brown	Alternately named PCS Band	
	1500	3x Yellow	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
	2100	4x Yellow	Brown	Brown/Brown	Alternately named AWS or 1700 Band	
	2500	6x Yellow	Brown	Brown/Brown	Alternately named WCS Band	

ARRAY LAYOUT Topology				ARRAY LAYOUT Topology			
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE	FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	R1	1-2	(2x) 4.3-10 Female	1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
696-960 MHz	R1	3-4	(2x) 4.3-10 Female	1695-2700 MHz	Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	Y1	5-6	(2x) 4.3-10 Female	1695-2700 MHz	Y6	15-16	(2x) 4.3-10 Female
1695-2700 MHz	Y2	7-8	(2x) 4.3-10 Female	3300-4200 MHz	P1	17-18	(2x) 4.3-10 Female
1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female	3300-4200 MHz	P2	19-20	(2x) 4.3-10 Female

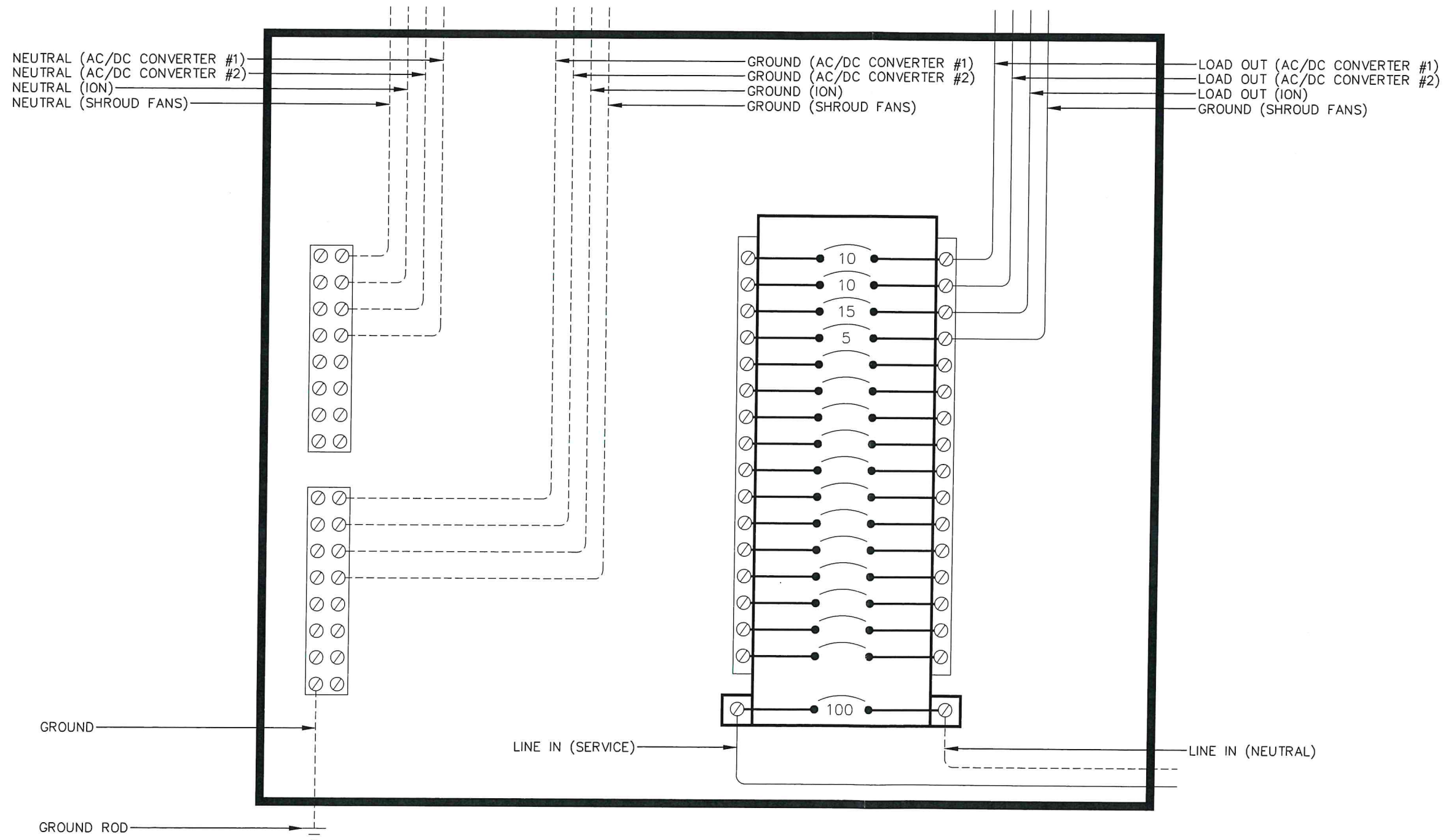
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 ENGINEER:
FPA FRENCH & PARRELLO ASSOCIATES
 Camden Office: 2 Riverside Dr., Suite 503 Camden, New Jersey 08101 609.862.1582 FPAEngineers.com
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 SHEET: 8 of 9



Peter J. Tardy
PETER J. TARDY, PE
NEW JERSEY PROFESSIONAL ENGINEER
DATE: 09/02/2025
LIC NO 41990

ENGINEER:

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