2023-COA-439 (FP)

460 VIRGINIA AVE.

ATTACH THIS FORM TO THE ELECTRONIC COPY OF YOUR SUBMITTED DRAWINGS

- Drawings must be 11 x 17 and in color.
- Please make sure to include to-scale site plans, to-scale elevations with (directions appropriately marked; north, south, east, west, etc.,) streetscapes, 3-D drawings and other documentation as required by your reviewer.
- Drawings must be submitted by the documentation deadline of **February 16, 2024** (unless otherwise directed by IHPC staff) no later than **5 PM**.

If you have any questions, please contact your reviewer or the IHPC office manager at **317 327-4406** or by email at **IHPC@indy.gov**.

DATE RECEIVED	CASE INFORMATION
RECEIVED February 9, 2024 INDIANAPOLIS HISTORIC PRESERVATION COMMISSION	**2023-COA-439 (FP)** COA NUMBER: **460 Virginia Ave.** ADDRESS WHERE WORK IS TO BE DONE: **Steve Carr** APPLICANT NAME: **March 06, 2024** HEARING DATE:

PLEASE BE SURE TO SEND AN ELECTRONIC COPY OF THESE PLANS WITH THIS COVER SHEET ATTACHED TO THE TOP TO IHPC@INDY.GOV

RECEIVED
February 9, 2024
INDIANAPOLIS HISTORIC PRESERVATION COMMISSION

AT&T

AT&T SITE NUMBER: IN0147
AT&T SITE NAME: INU0147
AT&T FA CODE: 10023929
AT&T PACE NUMBER: MRIND052245, MRIND054142
SITE TYPE: FLAGPOLE

SITE ADDRESS: 460 E VIRGINIA AVE INDIANAPOLIS, IN 46203
COUNTY: MARION
TOWER HEIGHT: 95'

PROJECT: AT&T 2022 5G NR RADIO

SITE INFORMATION

AT&T SITE NAME:	INU0147
SITE ADDRESS:	460 E VIRGINIA AVE INDIANAPOLIS, IN 46203
COUNTY:	MARION
MAP/PARCEL #:	49-11-12-151-014.000-101
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	39° 45' 36.00" N
LONGITUDE:	86° 08' 52.00008" W
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	+/- 728' AMSL (GOOGLE EARTH)
CURRENT ZONING:	CBDS
JURISDICTION:	MARION COUNTY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	VB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	MILHAUS OFFICE LLC 460 VIRGINA AVE INDIANAPOLIS, IN 46203
CARRIER/APPLICANT:	AT&T MOBILITY 220 MERIDIAN STREET INDIANAPOLIS, IN 46204
ELECTRIC PROVIDER:	AES INDIANA 1-888-261-8222
TELCO PROVIDER:	TBD TBD

PROJECT TEAM

A&E FIRM:	GPD GROUP, INC 520 SOUTH MAIN ST, SUITE 2531 AKRON, OH 44311 CONTACT: TRACI PREBLE, 317-299-3164

207

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ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

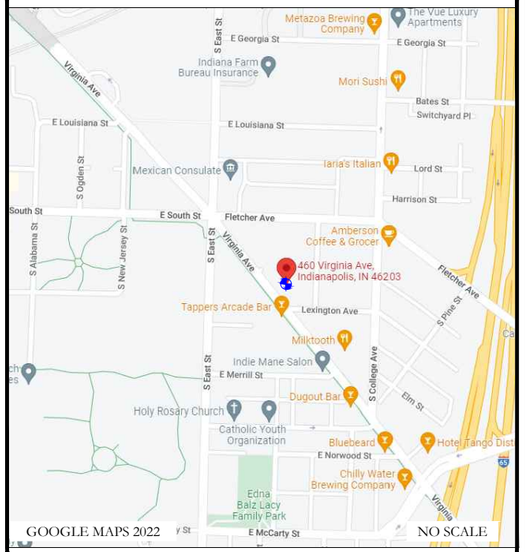
THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

TOWER SCOPE OF WORK
- REMOVE (6) KMW ET-X-UW-68-14-IR-AT-RA ANTENNAS
- REMOVE (3) COMMSCOPE E15Z01P39 TMAs
- REMOVE (3) KAELUS TMA2117F00V1
- INSTALL (2) TRIAD - FPL MOUNT ASSEMBLIES
- INSTALL (3) TMABPD7823VG12A TMAs
- INSTALL (3) COMMSCOPE NNH4-65B-R6H4 ANTENNAS
- INSTALL (3) ERICSSON AIR6449 N77D ANTENNAS
- INSTALL (3) ERICSSON AIR6419 N77G ANTENNAS
- INSTALL (1) DC9-48-60-24-PC16-EV
- INSTALL (2) DC TRUNKS(PWRT-606-S)
- INSTALL (1) FIBER TRUNK(24 PAIR)

GROUND SCOPE OF WORK:
- REMOVE (6) KAELUS TBC0037F2V51-1 TRIPLEXERS
- REMOVE (6) CBC7823T-DS-43 DIPLEXERS
- INSTALL (6) KMTCV00810010/020 QUADPLEXERS

*POWER SCOPE OF WORK TO BE COMPLETED BY OTHERS
- ALL ELECTRICAL POWER WORK REQUIRED TO ACCOMPLISH THE ABOVE MENTIONED POWER SCOPE OF WORK IS TO BE PERFORMED BY ERICSSON AND IS CONSIDERED BEYOND THE SCOPE OF WORK OF THESE PLANS

LOCATION MAP



SITE PHOTO

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	INDIANA BUILDING CODE 2012 IBC W/ STATE AMENDMENTS
MECHANICAL	INDIANA MECHANICAL CODE 2012 IMC W/ STATE AMENDMENTS
ELECTRICAL	INDIANA ELECTRICAL CODE 2008 NEC W/ STATE AMENDMENTS

DESIGN PACKAGE BASED ON THE RFDS
REVISION: V35
DATE: 04/19/2023

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:

THE TOWER STRUCTURAL ANALYSIS PERFORMED BY GPD GROUP, INC. (PROJECT #2023723.16.58916.05) DATED 07/27/2023 FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION ONCE THE RECOMMENDED MODIFICATIONS HAVE BEEN PERFORMED.

CALL INDIANA ONE CALL
(800) 382-5544
CALL 3 WORKING DAYS BEFORE YOU DIG!

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

GPD GROUP, INC.®
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/01/2022	CRM	90% CDs FOR REVIEW	ES
0	08/03/2022	CRM	FOR CONSTRUCTION	ES
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CHRISTOPHER J. SOMEKS
REGISTERED
No. 11400062
STATE OF INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-1
REVISION: 4

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED– NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA–1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR– ———————
   SUBCONTRACTOR– GENERAL CONTRACTOR (CONSTRUCTION)
   CARRIER– AT&T
   BUILDING OWNER– MILHAUS OFFICE LLC
   OEM– ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

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CHRISTOPHER J. SOMEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: T-2

REVISION: 4

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

MASONRY NOTES:

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER.....2 IN.
   #5 AND SMALLER & WWF.....1 1/2 IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALLS.....3/4 IN.
   BEAMS AND COLUMNS.....1 1/2 IN.

5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

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CHRISTOPHER J. SCHEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
STRUCTURAL

02/08/2024

SHEET NUMBER: T-3

REVISION: 4

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

SYMBOLS:

- SOLID GROUND BUS BAR (#S/G#)
- SOLID NEUTRAL BUS BAR (#S/N#)
- SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- TEST WELL
- DISCONNECT SWITCH
- METER
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
- MECHANICAL CONNECTION
- GROUNDING WIRE

NEC INSULATOR COLOR CODE

DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE OR PURPLE
	PHASE C	YELLOW

* SEE NEC 210.5(C)(1) AND (2)

RECEIVED
February 9, 2024
INDIANAPOLIS HISTORIC PRESERVATION COMMISSION

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

GPD GROUP, INC.®
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

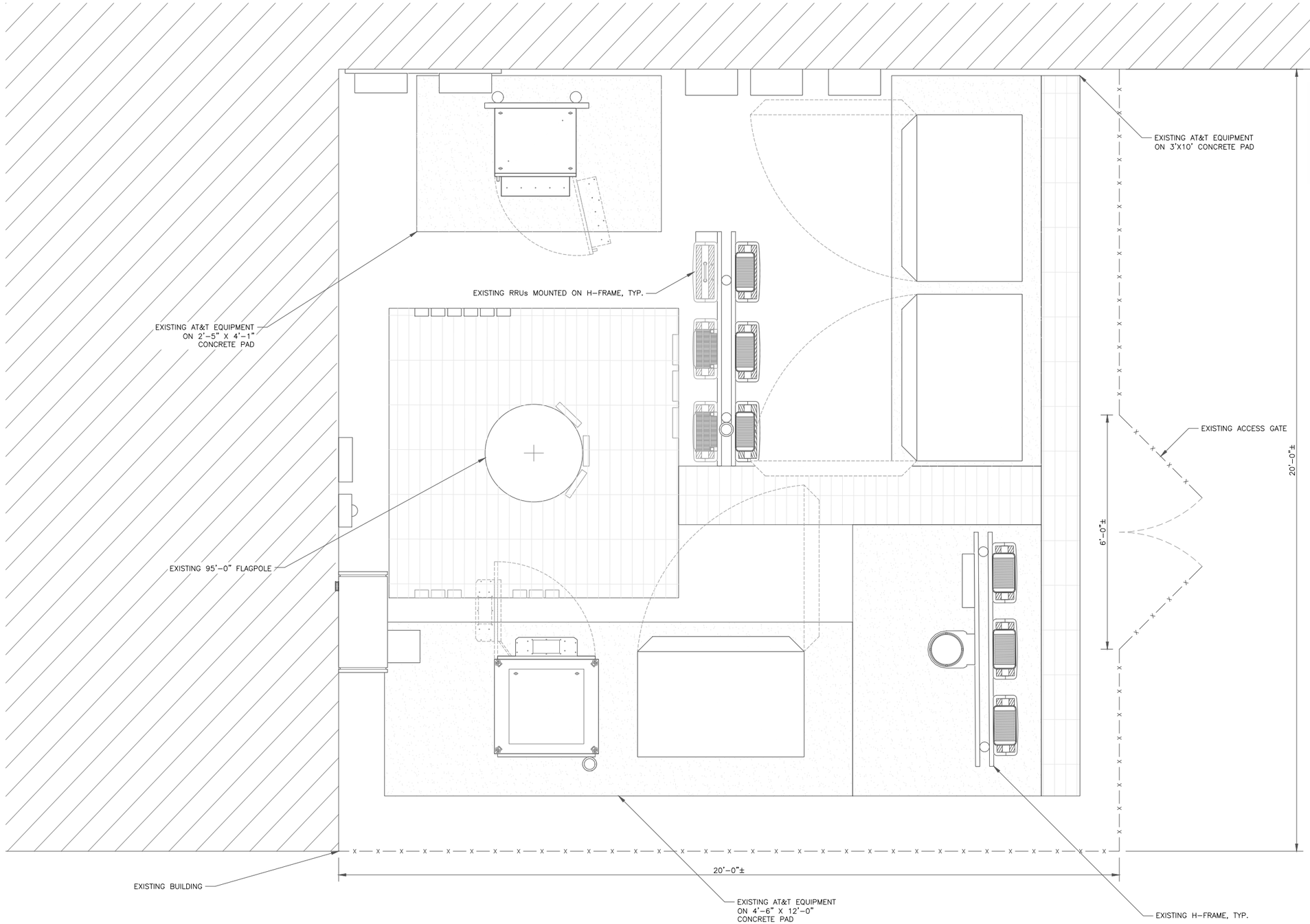
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/01/2022	CRM	90% CDs FOR REVIEW	ES
0	08/03/2022	CRM	FOR CONSTRUCTION	ES
1	08/16/2022	CRM	REV. PER COMMENTS	ES
2	08/24/2022	CRM	REV. PER COMMENTS	ES
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

STEVEN P. SCHAUB
REGISTERED
No. 11200553
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/08/2024

SHEET NUMBER: T-4

REVISION: 4

POWER SCOPE OF WORK TO BE COMPLETED BY OTHERS
*ALL ELECTRICAL POWER WORK REQUIRED TO ACCOMPLISH HE ABOVE MENTIONED POWER SCOPE OF WORK IS TO BE PERFORMED BY ERICSSON AND IS CONSIDERED BEYOND THE SCOPE OF WORK OF THESE PLANS



1 COMPOUND LAYOUT
SCALE: 1' 6" 0 1' 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N

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February 9, 2024
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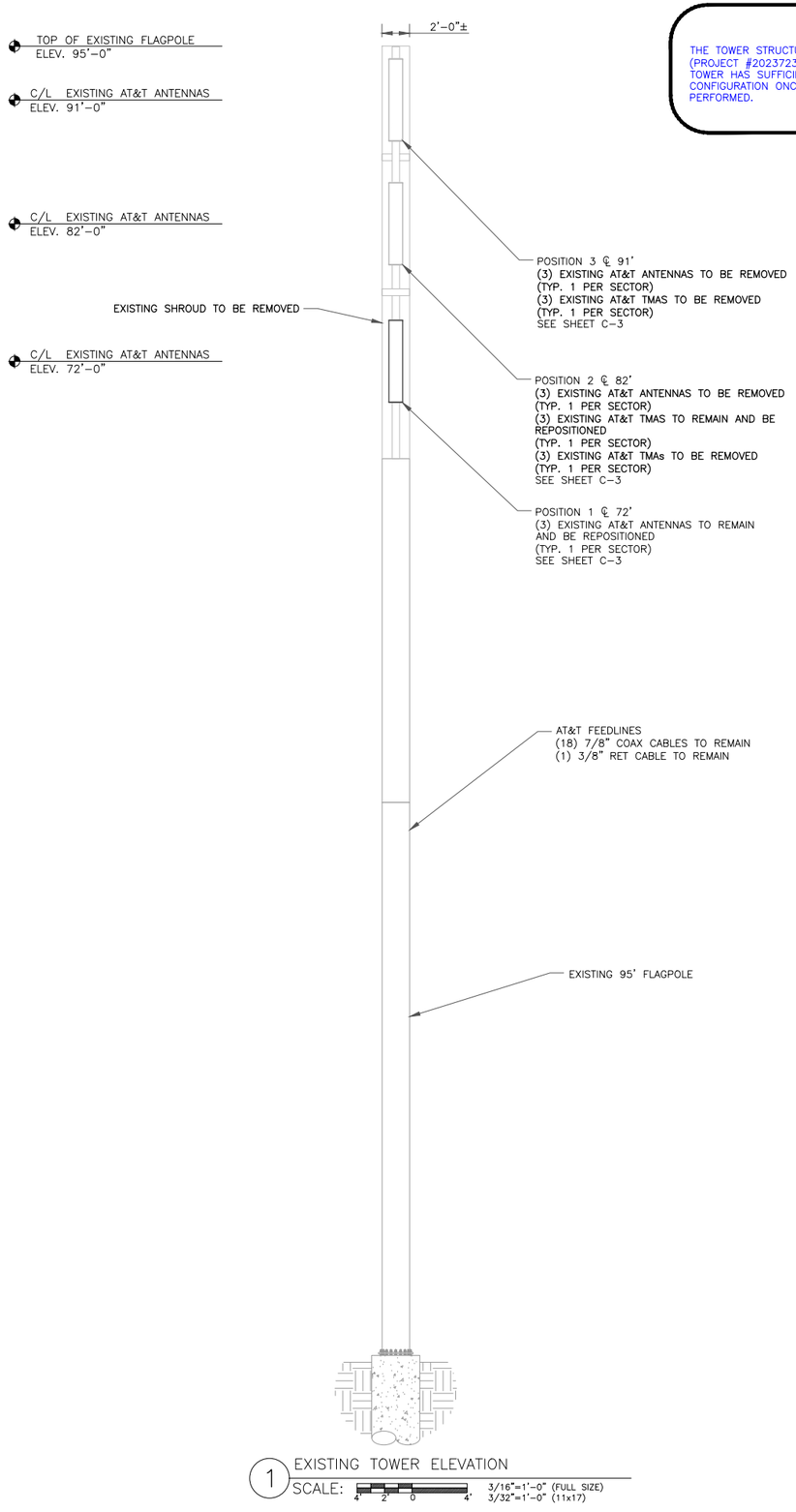
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

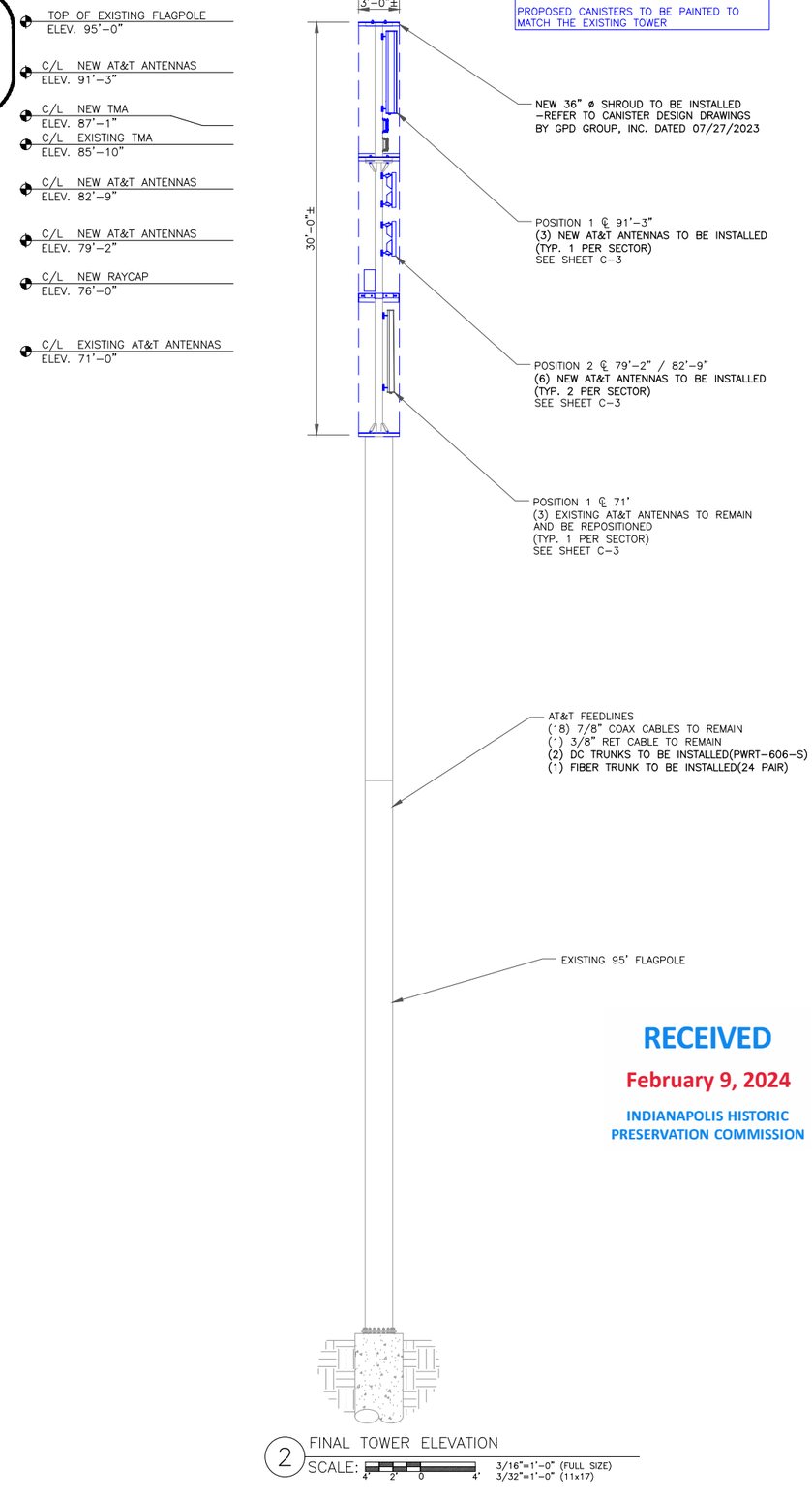
CHRISTOPHER J. SCHEKS
REGISTERED
No. 11400062
STATE OF INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-1
REVISION: 4



1 EXISTING TOWER ELEVATION
SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

THE TOWER STRUCTURAL ANALYSIS PERFORMED BY GPD GROUP, INC. (PROJECT #2023723.16.58916.05) DATED 07/27/2023 FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION ONCE THE RECOMMENDED MODIFICATIONS HAVE BEEN PERFORMED.



2 FINAL TOWER ELEVATION
SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

RECEIVED
February 9, 2024
INDIANAPOLIS HISTORIC PRESERVATION COMMISSION

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AT&T SITE NUMBER: **IN0147**

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INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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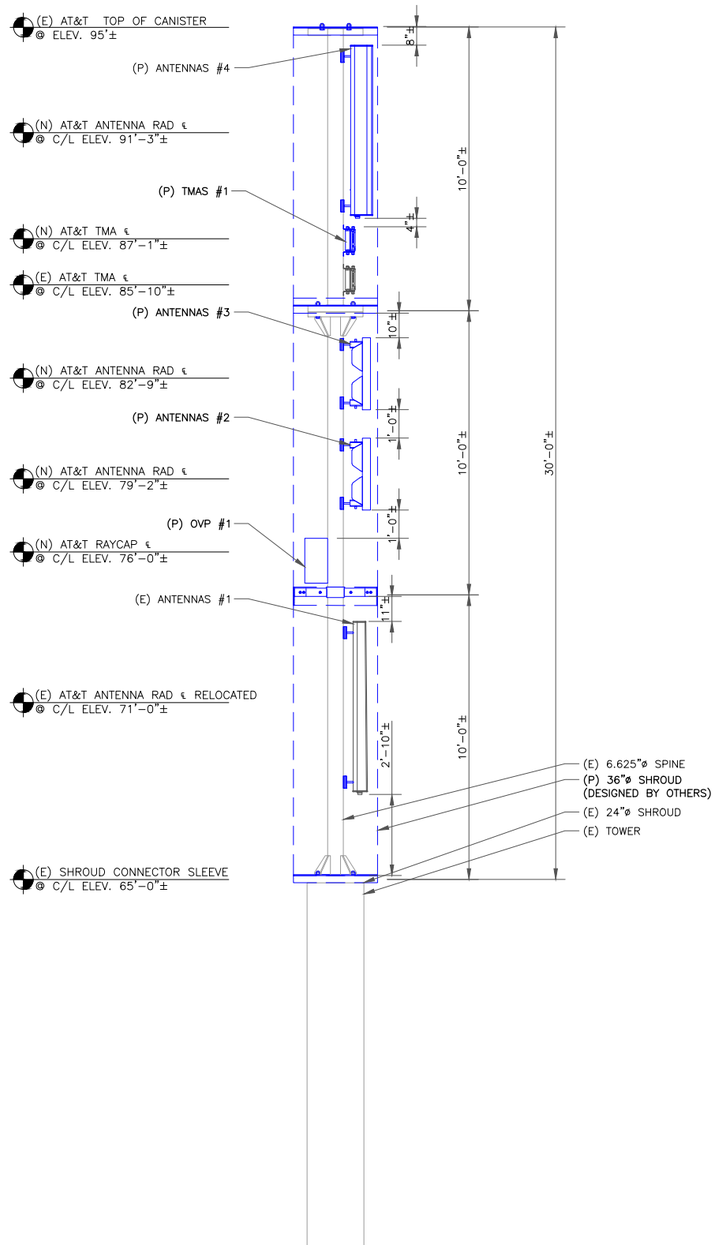
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

CHRISTOPHER J. SOMERS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-2
REVISION: 4

THE TOWER STRUCTURAL ANALYSIS PERFORMED BY GPD GROUP, INC. (PROJECT #2023723.16.58916.05) DATED 07/27/2023 FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION ONCE THE RECOMMENDED MODIFICATIONS HAVE BEEN PERFORMED.



1 DETAILED CANISTER ELEVATION

SCALE: 2' 1' 0 2' 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

NOTE:

PROPOSED CANISTERS TO BE PAINTED TO MATCH THE EXISTING TOWER

RECEIVED

February 9, 2024

INDIANAPOLIS HISTORIC PRESERVATION COMMISSION

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INDIANAPOLIS, IN 46204

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ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

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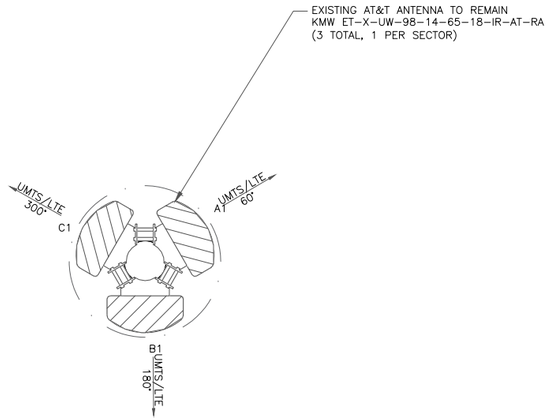
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

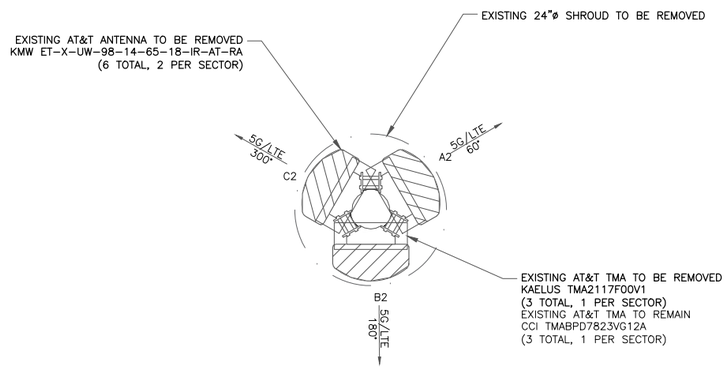
CHRISTOPHER J. SCHEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-2.1

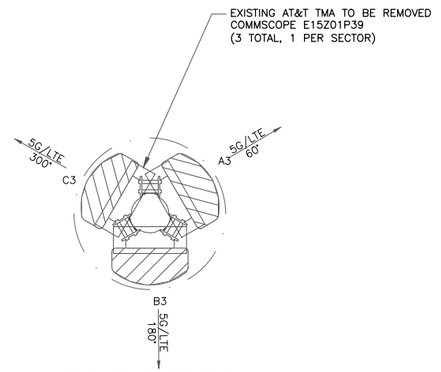
REVISION: 4



BOTTOM COMPARTMENT
RAD CENTER ELEV: 72'-0"



MIDDLE COMPARTMENT
RAD CENTER ELEV: 82'-0"

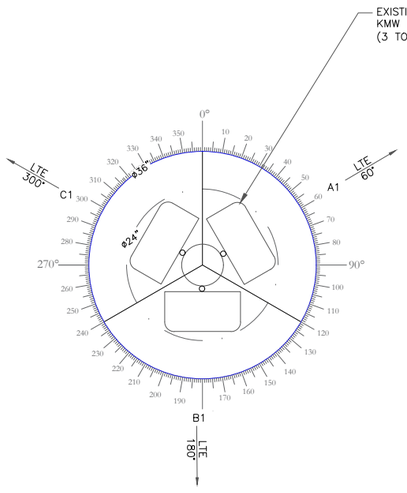


TOP COMPARTMENT
RAD CENTER ELEV: 91'-0"

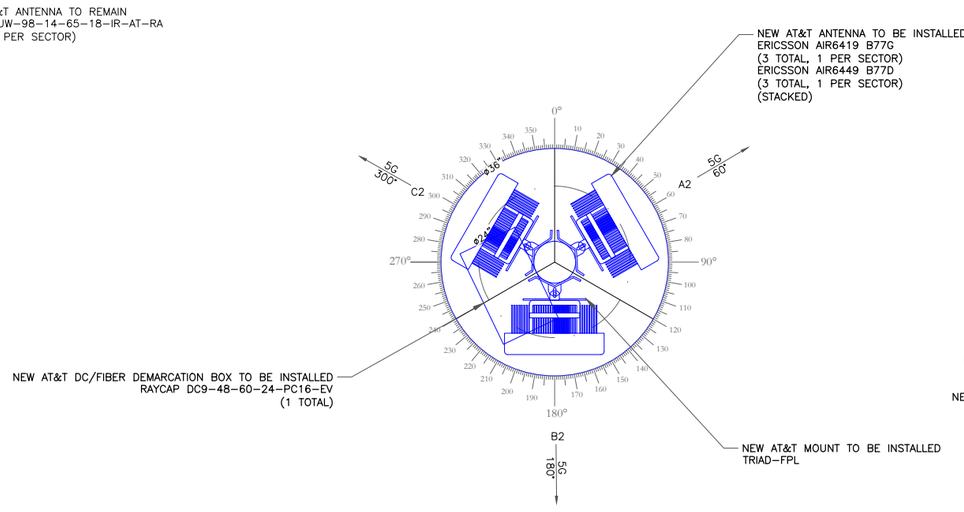
1 EXISTING ANTENNA LAYOUT
SCALE: 1'=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N

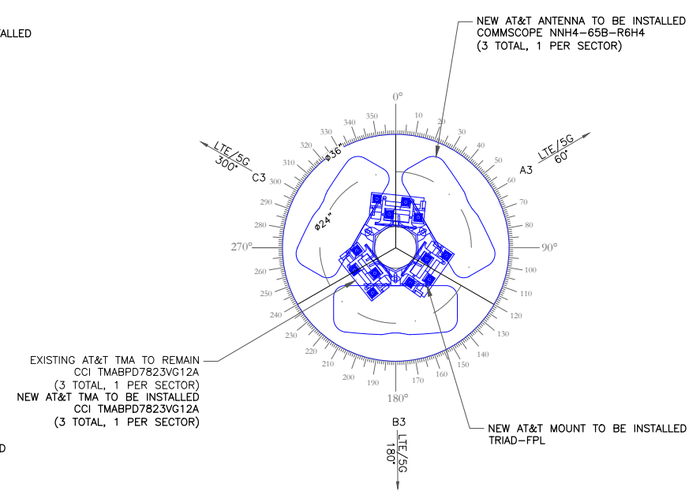
NOTE:
PROPOSED CANISTERS TO BE PAINTED TO MATCH THE EXISTING TOWER



BOTTOM COMPARTMENT
RAD CENTER ELEV: 71'-0"



MIDDLE COMPARTMENT
RAD CENTER ELEV: 79'-2" / 82'-9"



TOP COMPARTMENT
RAD CENTER ELEV: 91'-0"

2 NEW ANTENNA LAYOUT
SCALE: 1'=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N

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Akron, OH 44311
330.572.2100 Fax 330.572.2102

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

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4	09/20/2023	CRM	REV. PER COMMENTS	ES

CHRISTOPHER J. SCHEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-3
REVISION: 4

EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE

POSITION	TECH.	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT (LOW BAND/ HIGH BAND)	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY	DIPLEXER QTY ON TOWER	RAYCAP DEMARC SQUID	DC / FIBER CABLES	RRUs QTY ON GROUND	DIPLEXERS QTY ON GROUND	RET HOMERUN
ALPHA																	
A1	UMTS 850, LTE 700	EXISTING	60	KMW ET-X-UW-68-14-65-18-IR-AT-RA	72'	0°	7°/7°	–	–	–	–	–	–	–	–	–	–
A2	LTE 700, 850,WCS/ 5G 850	EXISTING	60	KMW ET-X-UW-68-14-65-18-IR-AT-RA	82'	0°	7°/7°/7°/2°	7/8"	100'	4	(1) KAELUS TMA2117F00V1 (1) CCI TMABPD7823VG12A	–	–	–	(1) 4478 B14	(2) KMTCV00810010/020 (1) CBC7823T-DS-43	–
A3	LTE 700, 850,1900, AWS,WCS/ 5G 850	EXISTING	60	KMW ET-X-UW-68-14-65-18-IR-AT-RA	91'	0°	7°/7°/7° /2°/2°/2°	7/8"	110'	2	(1) COMMSCOPE E15Z01P39	–	–	–	(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(1) KAELUS TBC0030F2V1-2	(1) 3/8"
BETA																	
B1	UMTS 850, LTE 700	EXISTING	180	KMW ET-X-UW-68-14-65-18-IR-AT-RA	72'	0°	4°/4°	–	–	–	–	–	–	–	–	–	–
B2	LTE 700, 850,WCS/ 5G 850	EXISTING	180	KMW ET-X-UW-68-14-65-18-IR-AT-RA	82'	0°	4°/4°/4°/2°	7/8"	100'	4	(1) KAELUS TMA2117F00V1 (1) CCI TMABPD7823VG12A	–	–	–	(1) 4478 B14	(2) KMTCV00810010/020 (1) CBC7823T-DS-43	–
B3	LTE 700, 850,1900, AWS,WCS/ 5G 850	EXISTING	180	KMW ET-X-UW-68-14-65-18-IR-AT-RA	91'	0°	4°/4°/4° /2°/2°/2°	7/8"	110'	2	(1) COMMSCOPE E15Z01P39	–	–	–	(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(1) KAELUS TBC0030F2V1-2	–
GAMMA																	
C1	UMTS 850, LTE 700	EXISTING	300	KMW ET-X-UW-68-14-65-18-IR-AT-RA	72'	0°	6°/6°	–	–	–	–	–	–	–	–	–	–
C2	LTE 700, 850,WCS/ 5G 850	EXISTING	300	KMW ET-X-UW-68-14-65-18-IR-AT-RA	82'	0°	6°/6°/6°/3°	7/8"	100'	4	(1) KAELUS TMA2117F00V1 (1) CCI TMABPD7823VG12A	–	–	–	(1) 4478 B14	(2) KMTCV00810010/020 (1) CBC7823T-DS-43	–
C3	LTE 700, 850,1900, AWS,WCS/ 5G 850	EXISTING	300	KMW ET-X-UW-68-14-65-18-IR-AT-RA	91'	0°	6°/6°/6° /3°/3°/3°	7/8"	110'	2	(1) COMMSCOPE E15Z01P39	–	–	–	(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(1) KAELUS TBC0030F2V1-2	–

NOTE: RFDS BEING USED
DATED 04/19/2023 V35

1 EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

GPD GROUP, INC.®
520 South Main Street
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ERICSSON

AT&T SITE NUMBER: **IN0147**

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EXISTING 95' FLAGPOLE

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4	09/20/2023	CRM	REV. PER COMMENTS	ES

CHRISTOPHER J. SCHEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-4.1
REVISION: 4

FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

POSITION	TECH.	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT (LOW BAND/ HIGH BAND)	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY (AT C/L ELEV: 85'-10" / 87'-1")	DIPLEXER QTY ON TOWER	RAYCAP DEMARC SQUID (AT C/L ELEV: 76'-0")	DC / FIBER CABLES	RRUs QTY ON GROUND	QUADPLEXERS QTY ON GROUND	RET HOMERUN
ALPHA																	
A1	LTE 700	EXISTING	60°	KMW ET-X-UW-68-14-65-18-IR-AT-RA	71'-0"	0°	7°	7/8"	110'	2	–	–	–	–	(1) 4478 B14	–	–
A2	5G DoD, CBAND	NEW	60°	ERICSSON AIR6449 N77D + ERICSSON AIR6419 N77G (STACKED)	79'-2"/ 82'-9"	0°/0°	0°/0°	–	–	–	–	–	(1) DC9-48-60-24-8C-EV	(2) DC(PWRT-606-S) (1) FIBER(24 PAIR)	–	–	–
A3	**LTE 700, 850, 5G 850, LTE 1900, AWS,WCS**	**NEW**	**60°**	**COMMSCOPE NNH4-65B-R6H4**	91'-3"	0°	7°/7°/7° /2°/2°/2°	7/8"	110'	4	(1) CCI TMABPD7823VG12A (1) CCI TMABPD7823VG12A				(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/020 (2) KMTCV00810010/020	(1) 3/8"
BETA																	
B1	LTE 700	EXISTING	180°	KMW ET-X-UW-68-14-65-18-IR-AT-RA	71'-0"	0°	4°	7/8"	110'	2	–	–	–	–	(1) 4478 B14	–	–
B2	5G DoD, CBAND	NEW	180°	ERICSSON AIR6449 N77D + ERICSSON AIR6419 N77G (STACKED)	79'-2"/ 82'-9"	0°/0°	0°/0°	–	–	–	–	–			–	–	–
B3	**LTE 700, 850, 5G 850, LTE 1900, AWS,WCS**	**NEW**	**180°**	**COMMSCOPE NNH4-65B-R6H4**	91'-3"	0°	4°/4°/4° /2°/2°/2°	7/8"	110'	4	(1) CCI TMABPD7823VG12A (1) CCI TMABPD7823VG12A				(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/020 (2) KMTCV00810010/020	(1) 3/8"
GAMMA																	
C1	LTE 700	EXISTING	300°	KMW ET-X-UW-68-14-65-18-IR-AT-RA	71'-0"	0°	6°	7/8"	110'	2	–	–	–	–	(1) 4478 B14	–	–
C2	5G DoD, CBAND	NEW	300°	ERICSSON AIR6449 N77D + ERICSSON AIR6419 N77G (STACKED)	79'-2"/ 82'-9"	0°/0°	0°/0°	–	–	–	–	–			–	–	–
C3	**LTE 700, 850, 5G 850, LTE 1900, AWS,WCS**	**NEW**	**300°**	**COMMSCOPE NNH4-65B-R6H4**	91'-3"	0°	6°/6°/6° /3°/3°/3°	7/8"	110'	4	(1) CCI TMABPD7823VG12A (1) CCI TMABPD7823VG12A				(1) 4449 B5/B12 (1) RRUS-32 B2 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/020 (2) KMTCV00810010/020	(1) 3/8"

NOTE: BOLD DENOTES NEW EQUIPMENT

NOTE: RFDS BEING USED
DATED 04/19/2023 V35

1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

GPD GROUP, INC.®
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	06/01/2022	CRM	90% CDs FOR REVIEW	ES
0	08/03/2022	CRM	FOR CONSTRUCTION	ES
1	08/16/2022	CRM	REV. PER COMMENTS	ES
2	08/24/2022	CRM	REV. PER COMMENTS	ES
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

CHRISTOPHER J. SOMEKS
REGISTERED
No. 11400062
STATE OF
INDIANA
PROFESSIONAL ENGINEER
CIVIL
02/08/2024

SHEET NUMBER: C-4.2

REVISION: 4

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ERICSSON

AT&T SITE NUMBER: **IN0147**

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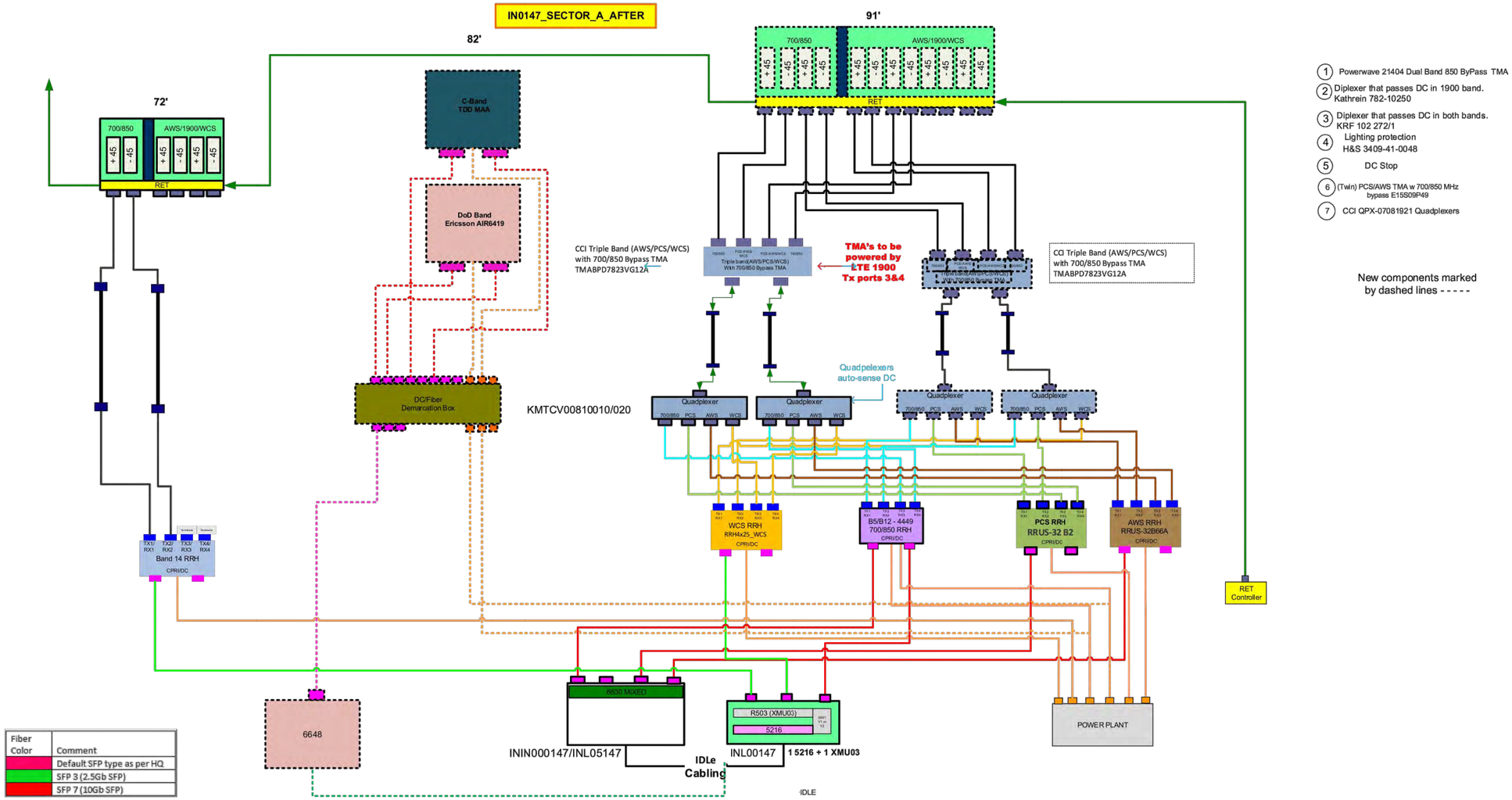
INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

Diagram - Sector	D	Diagram File Name - IN0147_SECTOR_A_AFTER_V34.vsd					
Atoll Site Name -	IN0147	Location Name -	IN0147	Market -	INDIANAPOLIS	Market Cluster -	MICHIGAN/INDIANA
Comments:							



Fiber Color	Comment
	Default SFP type as per HQ
	SFP 3 (2.5Gb SFP)
	SFP 7 (10Gb SFP)

1. Powerwave 21404 Dual Band 850 ByPass TMA
2. Diplexer that passes DC in 1900 band. Kathrein 782-10250
3. Diplexer that passes DC in both bands. KRF 102 272/1
4. Lighting protection H&S 3409-41-0048
5. DC Stop
6. (Twin) PCS/AWS TMA w 700/850 MHz bypass E15S09P49
7. CCI QPX-07081921 Quadplexers

New components marked by dashed lines - - - - -

1 ALPHA SECTOR PLUMBING DIAGRAM
SCALE: NOT TO SCALE

ISSUED FOR:

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3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

REFERENCE ONLY

SHEET NUMBER: C-5.1
REVISION: 4

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February 9, 2024
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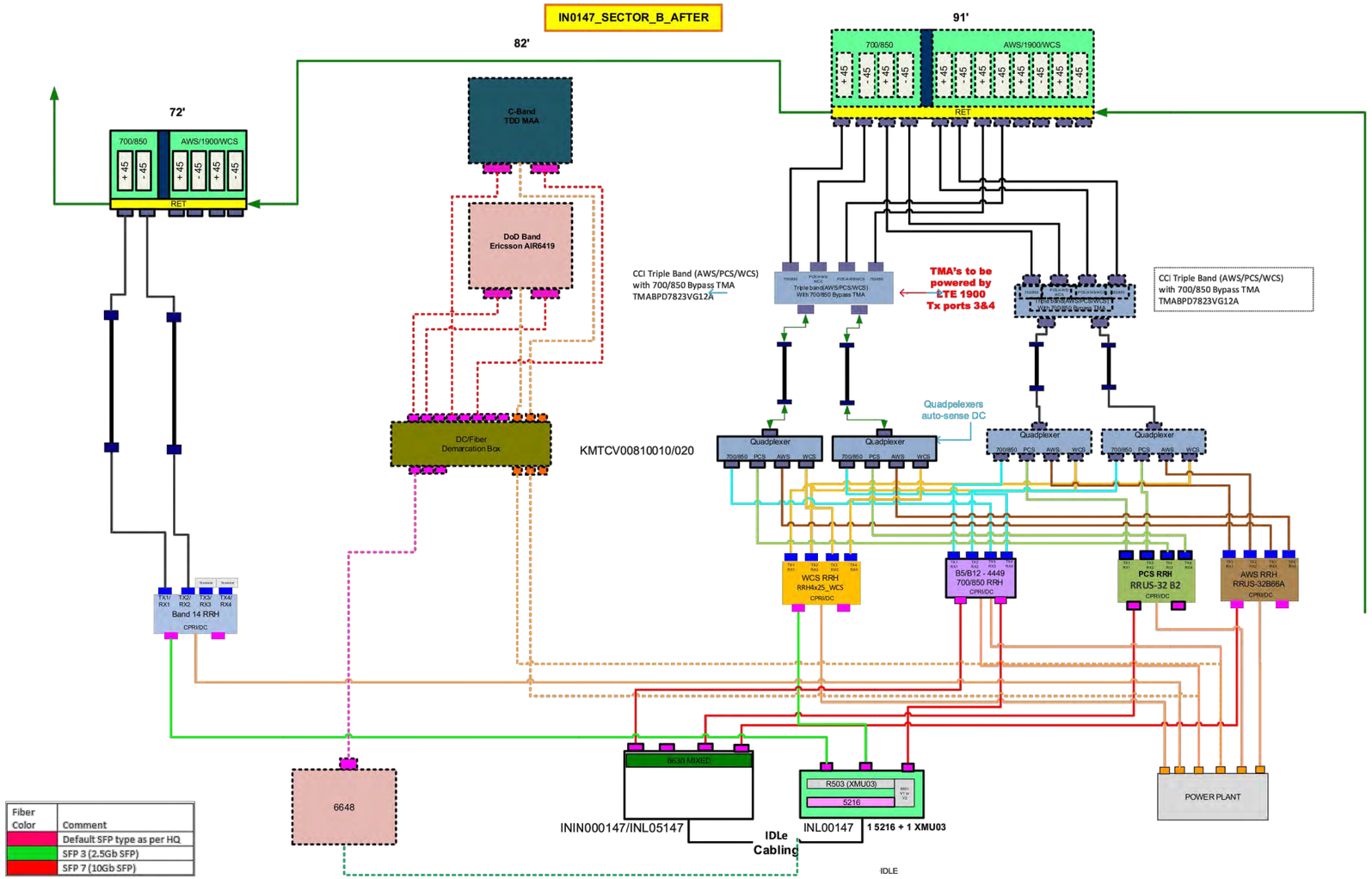
PRESERVATION COMMISSION

Diagram - Sector	E	Diagram File Name - IN0147_SECTOR_B_AFTER_V34.vsd					
Atoll Site Name -	IN0147	Location Name -	IN00147	Market -	INDIANAPOLIS	Market Cluster -	MICHIGAN/INDIANA
Comments:							



Fiber Color	Comment
	Default SFP type as per HQ
	SFP 3 (2.5Gb SFP)
	SFP 7 (10Gb SFP)

1. Powerwave 21404 Dual Band 850 ByPass TMA
2. Diplexer that passes DC in 1900 band. Kathrein 782-10250
3. Diplexer that passes DC in both bands. KRF 102 272/1
4. Lighting protection H&S 3409-41-0048
5. DC Stop
6. (Twin) PCS/AWS TMA w 700/850 MHz bypass E15S09P49
7. CCI QPX-07081921 Quadplexers

New components marked by dashed lines - - - - -

1 BETA SECTOR PLUMBING DIAGRAM
SCALE: NOT TO SCALE

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

ERICSSON

AT&T SITE NUMBER: **IN0147**

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INDIANAPOLIS, IN 46203

EXISTING 95' FLAGPOLE

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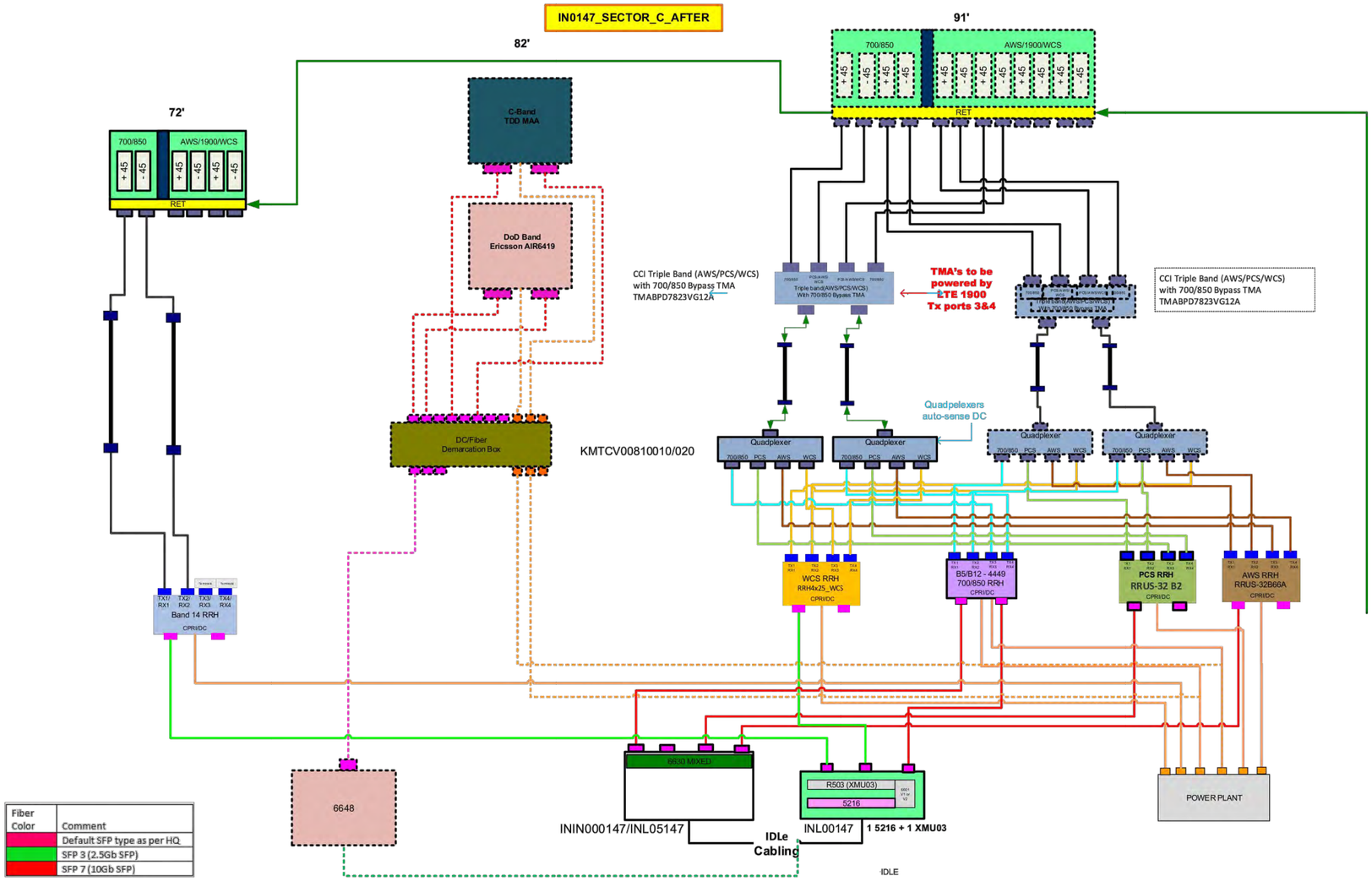
4	09/20/2023	CRM	REV. PER COMMENTS	ES

REFERENCE ONLY

SHEET NUMBER: C-5.2
REVISION: 4

Diagram - Sector	F	Diagram File Name - IN0147_SECTOR_C_AFTER_V34.vsd					
Atoll Site Name -	IN0147	Location Name -	IN0147	Market -	INDIANAPOLIS	Market Cluster -	MICHIGAN/INDIANA
Comments:							



1. Powerwave 21404 Dual Band 850 ByPass TMA
2. Diplexer that passes DC in 1900 band. Kathrein 782-10250
3. Diplexer that passes DC in both bands. KRF 102 272/1
4. Lighting protection H&S 3409-41-0048
5. DC Stop
6. (Twin) PCS/AWS TMA w 700/850 MHz bypass E15S09P49
7. CCI QPX-07081921 Quadplexers

New components marked by dashed lines - - - - -

1 GAMMA SECTOR PLUMBING DIAGRAM
SCALE: NOT TO SCALE

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
INDIANAPOLIS, IN 46203

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4	09/20/2023	CRM	REV. PER COMMENTS	ES

REFERENCE ONLY

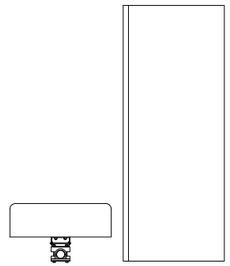
SHEET NUMBER: C-5.3
REVISION: 4

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	1848 mm | 72.756 in
Net Weight, antenna only	32.8 kg | 72.312 lb

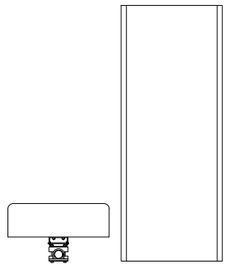
1 COMMSCOPE NNH4-65B-R6H4
SCALE: NOT TO SCALE

2 DETAIL NOT USED
SCALE: NOT TO SCALE



ERICSSON – AIR6419 N77G
WEIGHT (WITHOUT MOUNTING HARDWARE): 83.6 LBS
SIZE (HxWxD): 31.0x15.9x8.7 IN.

3 ERICSSON – AIR6419 N77G
SCALE: NOT TO SCALE



ERICSSON – AIR6449 N77D
WEIGHT (WITHOUT MOUNTING HARDWARE): 83.6 LBS
SIZE (HxWxD): 31.0x15.9x8.7 IN.

4 ERICSSON – AIR6449 N77D
SCALE: NOT TO SCALE

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

ERICSSON

AT&T SITE NUMBER: **IN0147**

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INDIANAPOLIS, IN 46203

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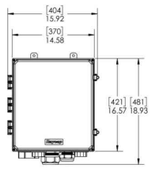
4	09/20/2023	CRM	REV. PER COMMENTS	ES

REFERENCE ONLY

SHEET NUMBER: C-6

REVISION: 4



RAYCAP – DC9-48-60-24-PC16-EV
WEIGHT: 34.9 LBS
SIZE (LxWxD): 14.58x16.57x8.19 IN.

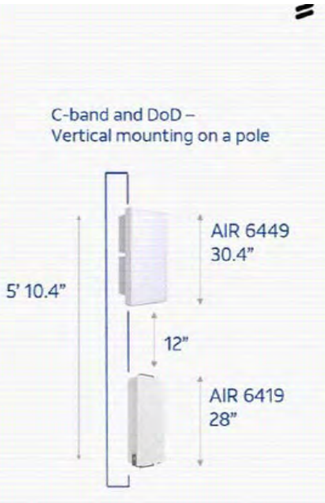
OPERATING TEMPERATURE: -35° C TO +65° C
NOMINAL OPERATING DC VOLTAGE: 48V DC
VOLTAGE PROTECTION RATING (VRP): 330V
ENCLOSURE TYPE: OUTDOOR – NEMA 4X RATED

5 RAYCAP DC9-48-60-24-PC16-EV
SCALE: NOT TO SCALE

ALL STACKED ANTENNA MOUNT PIPES TO BE 2-7/8" OD.

	Single band C-band	Single band DoD
	AIR 6449 B77D (C-band)	AIR 6419 B77G (DoD)
LxWxD	772x403x285 30.4x15.9x8.1	710x400x170 28x15.7x6.7
Weight	37 kg/81.6 lbs	<30 kg/<66.1 lbs
Antenna	64T64R AAS	64T64R AAS
EIRP	79 dBm	79 dBm
Wind load	483 sq.in	440 sq.in
When	Now	Mid 2022

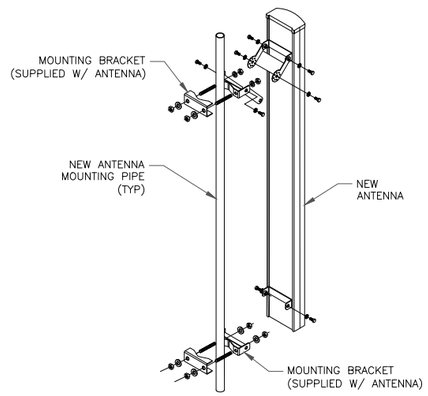
New radio platform



6 STACKED ANTENNA DETAIL
SCALE:

INSTALLER NOTE:

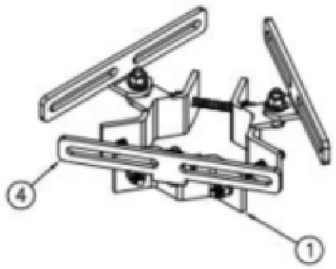
1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



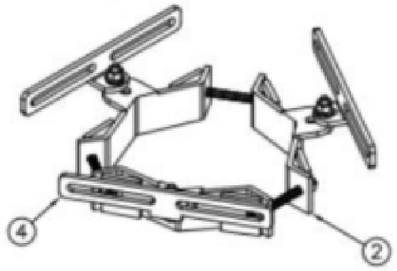
7 MOUNTING DETAIL
SCALE: NOT TO SCALE

PARTS LIST UNIT/PART	QTY.	PART NO.	PART DESCRIPTION	MATERIAL	SPECIFICATION OR REMARKS
1	6	TRIAD–FPS	¼" BRACKET ASSEMBLY	GALV. STEEL	FOR ROUND OR POLYGON POLES 3" TO 7" DIA.
2	6	TRIAD–FPL	¼" BRACKET ASSEMBLY	GALV. STEEL	FOR ROUND OR POLYGON POLES 6" TO 11" DIA.
3	6	TRIAD–FPXL	¼" BRACKET ASSEMBLY	GALV. STEEL	FOR ROUND OR POLYGON POLES 10" TO 14" DIA.
4	6	TRIAD–AB	¼" HRPO GUSSET ASSEMBLY	GALV. STEEL	ANTENNA BRACKET
5	6	TRIAD–CB	11 GA. CRS	GALV. STEEL	COMBINER BRACKET (OPTIONAL)
6	6	–	⅜"ø x 5½" A36 THREADED ROD (HDG.)	GALV. STEEL	FOR TRIAD–FPS ASSEMBLY
7	6	–	⅜"ø x 7" A36 THREADED ROD (HDG.)	GALV. STEEL	FOR TRIAD–FPL ASSEMBLY
8	6	–	⅜"ø x 7" A36 THREADED ROD (HDG.)	GALV. STEEL	FOR TRIAD–FPXL ASSEMBLY
9	6	–	⅜"ø x 1¼" A307 BOLT	GALV. STEEL	SPINDLE BOLT
10	6	–	⅜"ø x 1¼" A307 BOLT LOCK WASHER & NUT	GALV. STEEL	(OPTIONAL, FOR TRIAD–CB)
11	18	–	⅜" HEX NUT	GALV. STEEL	–
12	12	–	⅜" FLAT WASHER	GALV. STEEL	–
13	18	–	⅜" LOCK WASHER	GALV. STEEL	–
14	12	–	⅜" ISOLATION WASHER	NYLON	FOR ANTENNA MOUNTING HARDWARE

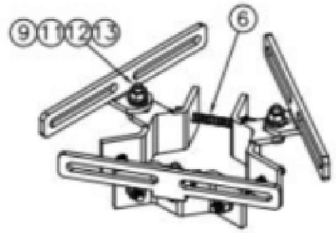
UNITS/PARTS SPECIFICATION 1

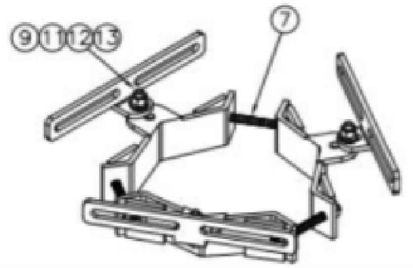


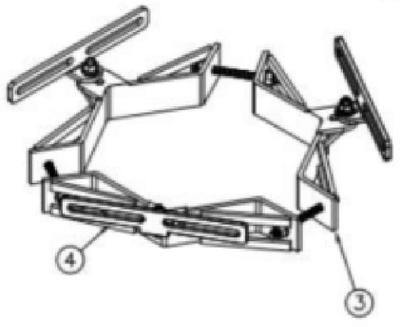
FPS ISOMETRIC ASSEMBLY VIEW NTS 2



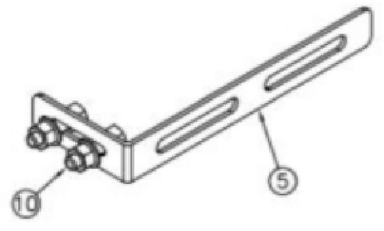
FPL ISOMETRIC ASSEMBLY VIEW NTS 3



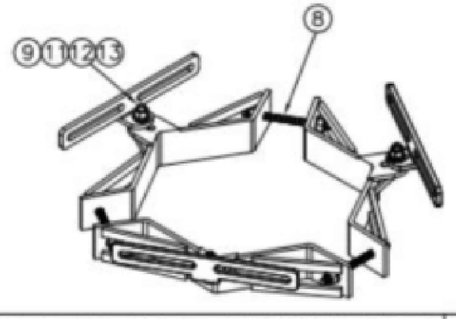




FPXL ISOMETRIC ASSEMBLY VIEW NTS 4



CB ISOMETRIC ASSEMBLY VIEW NTS 5



1 TRIAD – FPL MOUNT SPECS
SCALE: NOT TO SCALE

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RECEIVED
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INDIANAPOLIS HISTORIC PRESERVATION COMMISSION

ERICSSON

AT&T SITE NUMBER: **IN0147**

460 E VIRGINIA AVE
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EXISTING 95' FLAGPOLE

ISSUED FOR:

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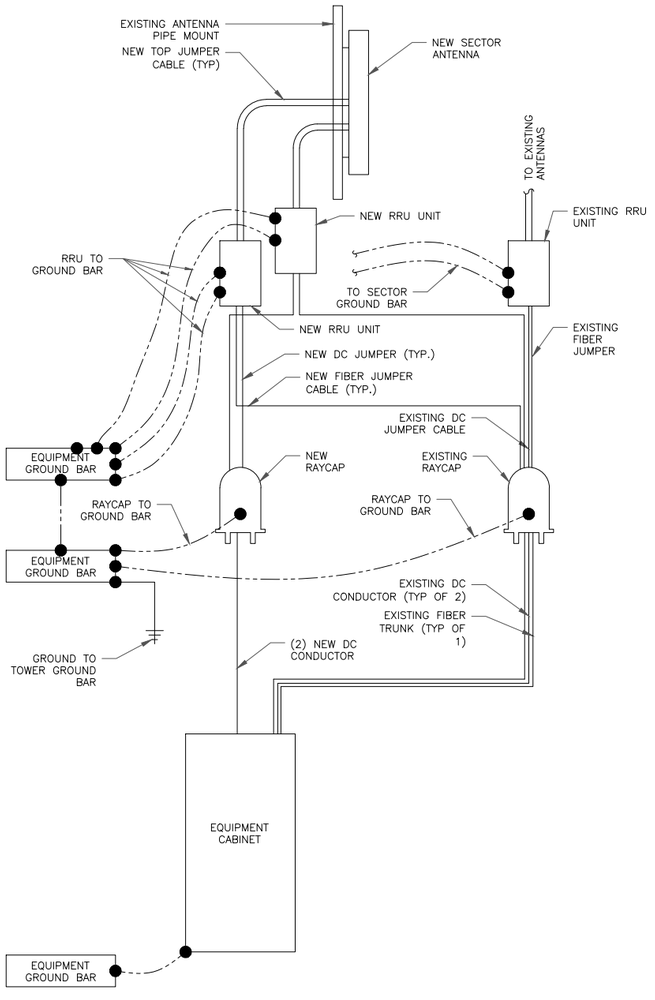
3	09/06/2023	CRM	REV. PER COMMENTS	ES
4	09/20/2023	CRM	REV. PER COMMENTS	ES

REFERENCE ONLY

SHEET NUMBER: C-7
REVISION: 4



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

1. CONTRACTOR SHALL HAVE A COMPLETE UNDERSTANDING OF THE CONTENTS OF AT&T STANDARD TP-76416.
2. ALL INSTALLATIONS SHALL BE FIELD VERIFIED.
3. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT TO GROUND BARS SHALL BE 6 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
4. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT SUPPORT AND MOUNTING STRUCTURES TO GROUND BARS SHALL BE 2 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
5. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
6. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL COMPRESSION GROUNDING CONNECTIONS.
7. ALL EXOTHERMIC CONNECTIONS SHALL BE INSTALLED UTILIZING THE PROPER CONNECTION/MOLD AND MATERIALS FOR THE PARTICULAR APPLICATION.
8. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH AN EXTERNAL TOOTHED LOCK WASHER. GROUNDING BUS BARS MAY HAVE PRE-PUNCHED HOLES OR TAPPED HOLES. ALL HARDWARE SHALL BE SECURITY TORQUE HARDWARE 3/8" STAINLESS STEEL.
9. EXTERNAL GROUNDING CONDUCTOR SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS, CONDUITS, OR SUPPORTS TO PRECLUDE ESTABLISHING A MAGNETIC CHOKE POINT.
10. PLASTIC CLIPS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.
11. CONTRACTOR SHALL REPAIR/PLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
12. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
13. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
14. CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

2 GENERAL GROUNDING NOTES
SCALE: NOT TO SCALE

NOTE:

NO AC OR DC POWER WORK IS WITHIN THE SCOPE OF THESE DRAWINGS. HOWEVER, SOME AC OR DC POWER CONSTRUCTION MIGHT BE ENCOUNTERED. IF SO REQUIRED, PRIOR TO ANY CONSTRUCTION, IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY THE MAXIMUM DEMAND LOAD AND THAT NO POSSIBLE OVERLOADS WOULD BE INCURRED WITH ANY AC OR DC ELECTRICAL WORK OF THE EXISTING PANELS OR CONDUCTORS. IF OVERLOADS ARE ANTICIPATED, CONTACT ERICSSON BEFORE PROCEEDING WITH ANY WORK. ALL AC OR DC WORK DEPICTED WITHIN THESE DRAWINGS IS DIAGRAMMATICAL AND FOR REFERENCE PURPOSES ONLY. AC AND DC ELECTRICAL SCOPE OF WORK IS BY ERICSSON.

AT&T
220 MERIDIAN STREET
INDIANAPOLIS, IN 46204

GPD GROUP, INC.®
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

ERICSSON

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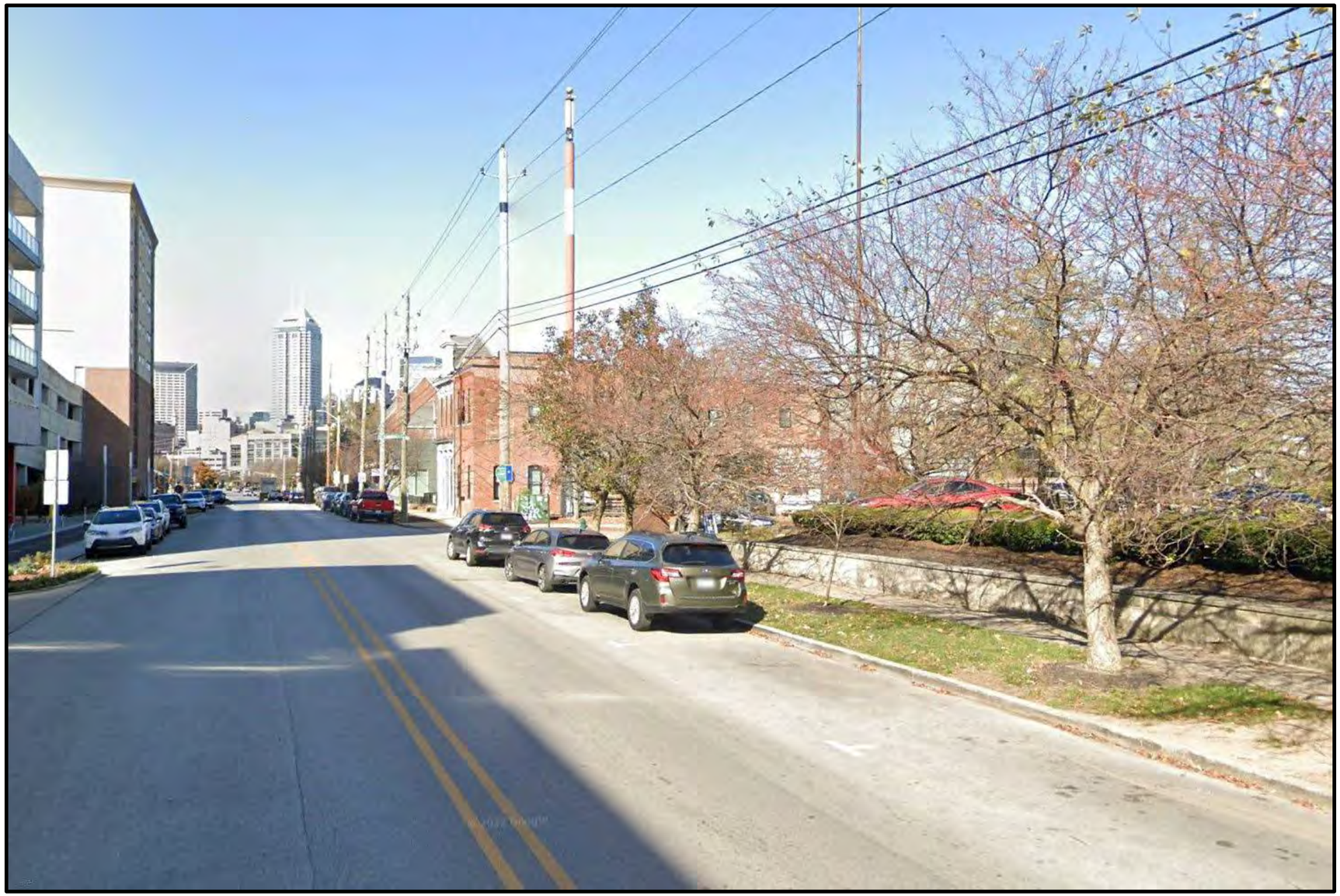
4	09/20/2023	CRM	REV. PER COMMENTS	ES

STEVEN P. SCHAUB
REGISTERED
No. 11200553
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/08/2024

SHEET NUMBER: G-1
REVISION: 4

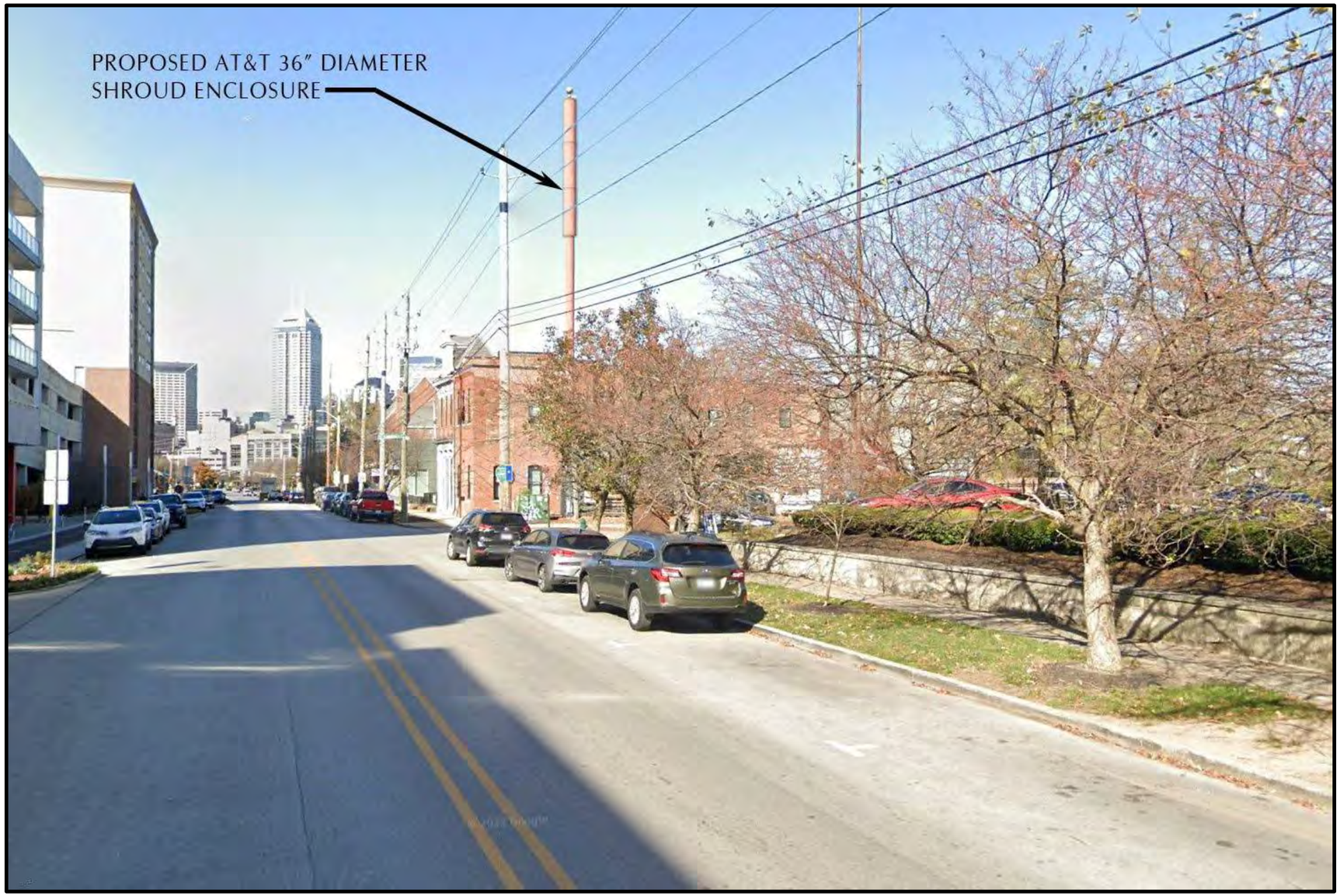


IN0147 VIRGINIA AVENUE EAST VIEWING LOCATION EXISTING

8275 Allison Pointe Trail Suite 220 Indianapolis, Indiana 46250 • PHONE 317-299-2996 • FAX 317-293-1331

GPD GROUP

Engineers . Architects . Planners



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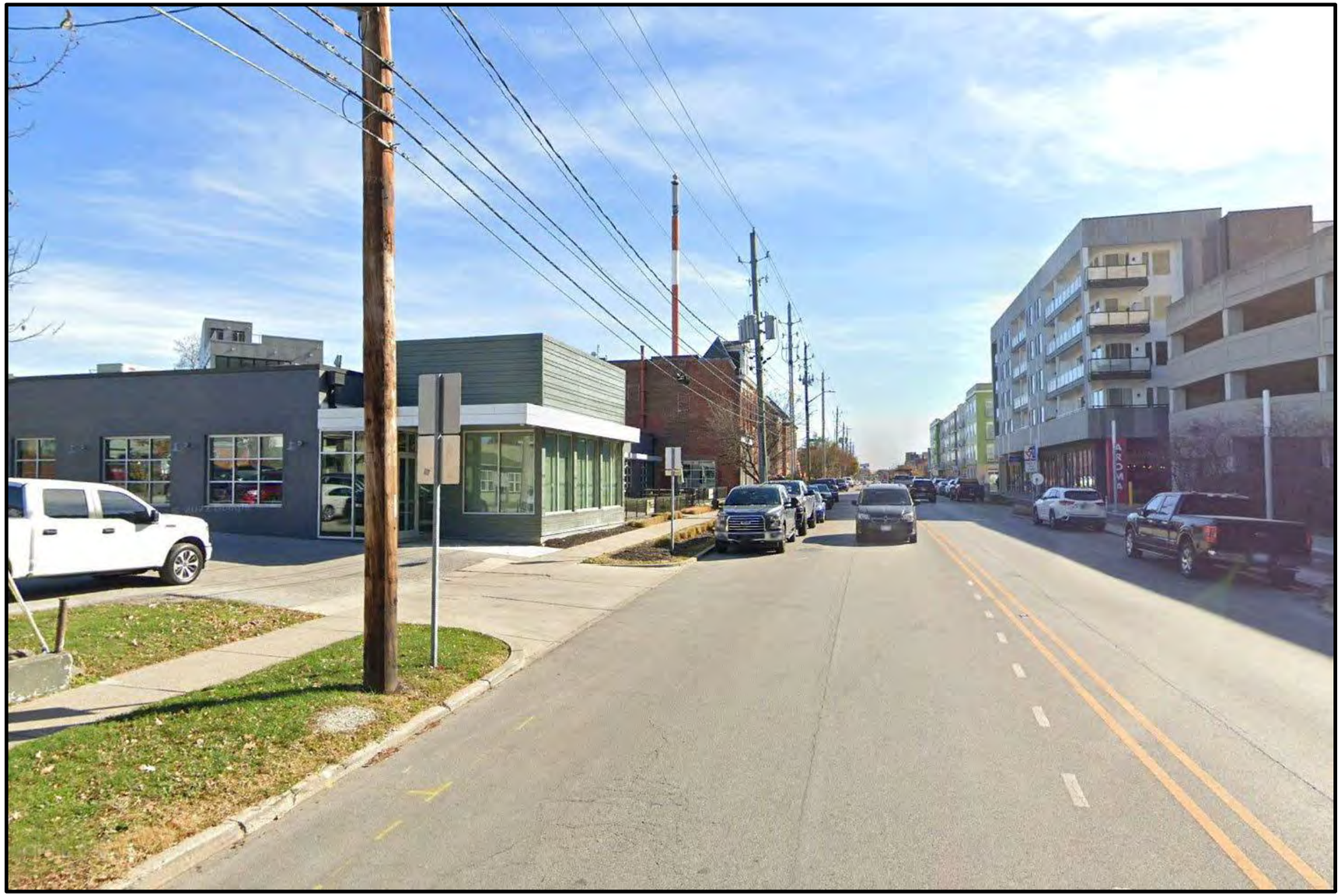

IN0147 VIRGINIA AVENUE WEST VIEWING LOCATION EXISTING

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GPD GROUP

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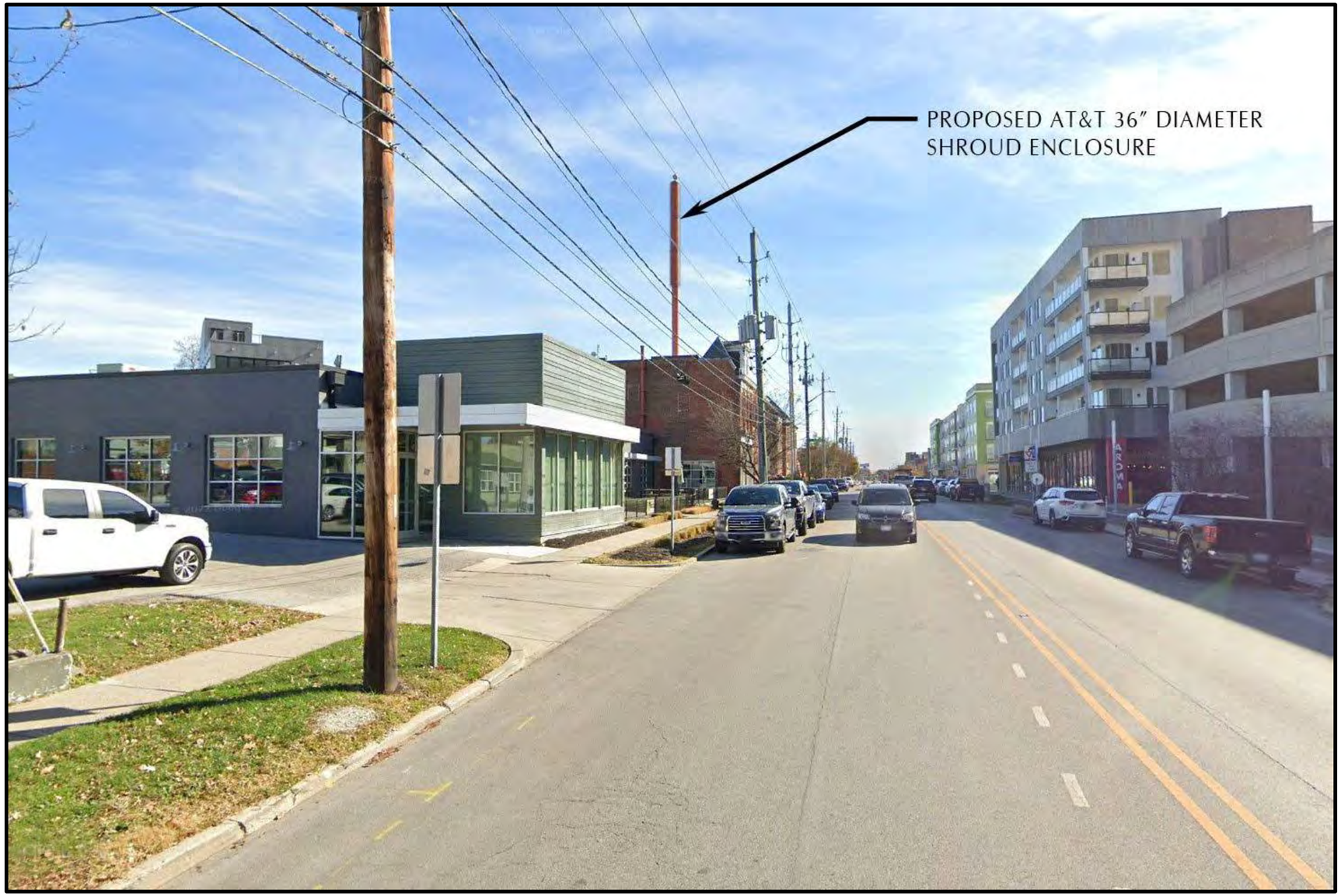

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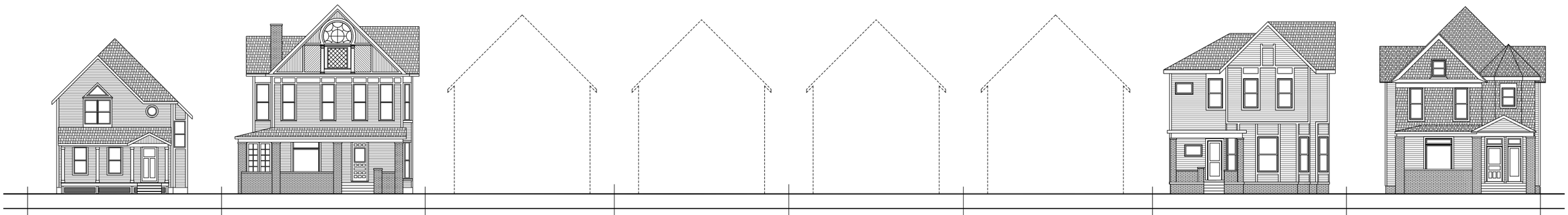
2024-COA-034 (HMP)

1806 N. ALABAMA ST.



1716	1722	1802 (Proposed)	1804 (Proposed)	1806 (Proposed)	1808 (Proposed)	1810	1816 / 1818

ALABAMA STREET STREETSCAPE

SCALE: 1" = 20'-0"

01/31/24

ALLEY

RELOCATE EXIST. UTILITY POLES AS REQ'D

EXIST. GARAGE

5'-0" 29'-0" 5'-0" 6'-0" 24'-0"

3-CAR DETACHED GARAGE

1802 PROPOSED RESIDENCE

5'-0" 26'-0" 5'-0" 6'-0" 24'-0"

2-CAR DETACHED GARAGE

1804 PROPOSED RESIDENCE

REMOVE ELECT. POLE

5'-0" 26'-0" 5'-0" 6'-0" 24'-0"

2-CAR DETACHED GARAGE

1806 PROPOSED RESIDENCE

5'-0" 29'-0" 5'-0" 6'-0" 24'-0"

3-CAR DETACHED GARAGE

1808 PROPOSED RESIDENCE

EXIST. GARAGE

1722 EXISTING

9'-6" 28'-0" 10'-0" 6'-0" 1'-0"

26'-0" 10'-0" 26'-0" 10'-0" 28'-0" 9'-6" 6'-0" 1'-0"

1810 EXISTING

40'-0" 42'-0" 39'-0" 36'-0" 36'-0" 39'-0" 40'-0" 40'-0"

REMOVE ELECT. POLE

INFILL EXIST. ALLEY / CURB CUT

ALABAMA STREET

SITE PLAN @ 1" = 20'-0"

01/31/24

N