

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

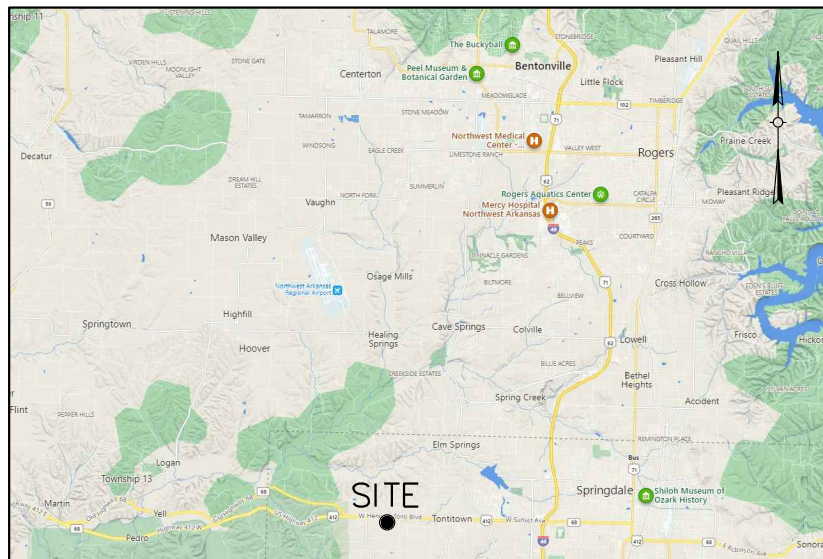
LOCAL BUILDING CODE AND OR CITY/COUNTY ORDINANCES SHALL GOVERN IF DEEMED MORE STRINGENT OR FOLLOWS MORE RECENT CODE PUBLICATIONS.

ARKANSAS STATE BUILDING CODE:
 BUILDING CODE (IBC): 2021 ARKANSAS BUILDING CODE (2021 INTERNATIONAL BUILDING CODE)
 STRUCTURAL CODE: TIA/EIA-222 - REVISION H
 MECHANICAL CODE (IMC): 2021 INTERNATIONAL MECHANICAL CODE
 PLUMBING CODE (IPC): 2018 INTERNATIONAL PLUMBING CODE
 ELECTRICAL CODE (NEC): 2020 NATIONAL ELECTRICAL CODE
 FIRE SAFETY CODE (IFC): 2021 INTERNATIONAL FIRE CODE AMENDMENTS
 ENERGY CODE: 2009 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS
 GAS CODE (IFGC): 2018 INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS

APPLICABLE CODES

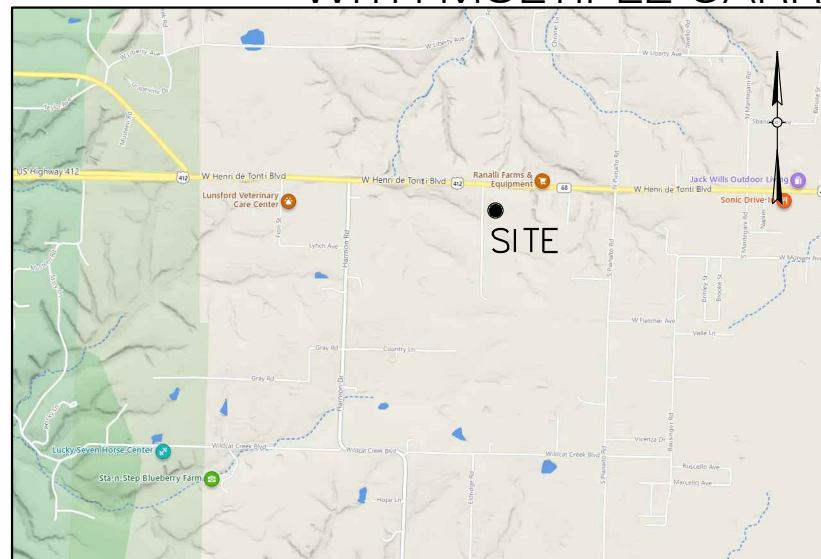
- TOWER TO HAVE A DESIGNED BREAK POINT 35' BELOW TOP OF TOWER, CREATING A 35' FALL ZONE RADIUS WITHIN THE PROPOSED LEASE AREA
- TOWER TO BE PAINTED IN A MANNER THAT REDUCES VISUAL IMPACT
- GENERATOR TO HAVE AN ACOUSTIC ENCLOSURE

SPECIAL TOWER/SITE NOTES



REGION MAP

SCALE: NONE



VICINITY MAP

SCALE: NONE

POWER COMPANY

OZARK ELECTRIC
 CONTACT: LONNIE GRANT
 PHONE: (479) 684-4691

TELEPHONE COMPANY

AT&T
 CONTACT: -
 PHONE: (800) 482-8998

LAW ENFORCEMENT

ELM SPRINGS POLICE DEPARTMENT
 PHONE: (479) 248-7323

FIRE DEPARTMENT

TONTITOWN FIRE DEPARTMENT
 PHONE: (479) 365-2056

CONTACTS



CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS, PLANNERS AND SURVEYORS

3001 TAYLOR SPRINGS DRIVE
 LOUISVILLE, KENTUCKY 40220
 PHONE: (502) 459-8402
 FAX: (502) 459-8427

DIRECTIONS TO SITE

FROM VERIZON LITTLE ROCK OFFICE, STARTING AT 1400 CENTER VIEW DRIVE, LITTLE ROCK, AR, DEPART AND HEAD NORTH (187FT.). TURN RIGHT, THEN IMMEDIATELY TURN RIGHT ONTO CENTER VIEW DR (0.3MI.). TURN LEFT ONTO EXECUTIVE CENTER DR (0.3MI.). TURN RIGHT ONTO S SHACKLEFORD RD (0.3MI.). TURN LEFT ONTO I-430N TOWARD I-430N (33FT.). TAKE THE RAMP ON THE LEFT FOR I-430N (7.3MI.). AT EXIT 13B, HEAD LEFT ON THE RAMP FOR I-40W (135.2MI.). AT EXIT 12, HEAD RIGHT ON THE RAMP FOR I-49N (51.7MI.). AT EXIT 72, HEAD ON THE RAMP RIGHT AND FOLLOW SIGNS FOR US-412 (0.3MI.). TURN LEFT ONTO US-412E (4.6MI.). SITE ON THE LEFT.

GATE COMBO: AR 4123



US-AR-5209
VERIZON WIRELESS SITE NAME: HENRI DE TONTI AR

1855 W HENRI DE TONTI BLVD
 WASHINGTON COUNTY
 SPRINGDALE, AR 72762

**PROPOSED 195' MONOPOLE TOWER
 WITH 4' LIGHTNING ARRESTOR (199' OVERALL HEIGHT)
 WITH MULTIPLE CARRIERS**

SITE NUMBER US-AR-5209
LESSEE SITE NAME HENRI DE TONTI AR-A

SITE ADDRESS

1855 W HENRI DE TONTI BLVD
 SPRINGDALE, AR 72762

PROPERTY OWNER

UPWARDS INVESTMENTS, LLC
 1849 W HENRI DE TONTI BLVD
 TONTITOWN, AR 72704
 CONTACT: TYSON NICHOLS
 PHONE: (479) 212-2005

TOWER OWNER

VERTICAL BRIDGE
 750 PARK OF COMMERCE DR
 BOCA RATON, FL 33487
 CONTACT: CODY KNOX
 PHONE: (318) 355-6599

LESSEE

VERIZON WIRELESS
 1400 CENTER VIEW DRIVE
 LITTLE ROCK, AR 72211
 CONTACT: DUSTIN SEXTON
 PHONE: (501) 905-7018

STRUCTURE TYPE

MONOPOLE TOWER

STRUCTURE HEIGHT

195' AGL

RAD CENTER

190' AGL

LATITUDE/LONGITUDE

36° 10' 24.87" N
 94° 16' 04.97" W

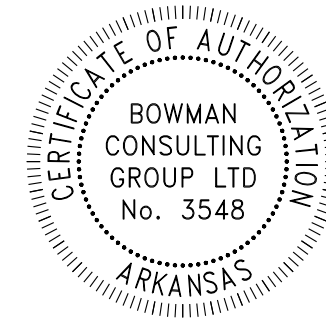
SITE ELEVATION

1310.1' AMSL

AREA OF PARCEL

COMPOUND LEASE AREA = 5625 SF
 VZW LEASE AREA = 15' x 22' = 330 SF

PROJECT INFORMATION



750 PARK OF COMMERCE DRIVE
 BOCA RATON, FL 33487
 PHONE (561) 948-6367

Bowman
 CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS, PLANNERS AND SURVEYORS
 3001 TAYLOR SPRINGS DRIVE
 LOUISVILLE, KENTUCKY 40220
 PHONE: (502) 459-8402 FAX: (503) 459-8427



SITE NAME: HENRI DE TONTI AR

SITE NUMBER: US-AR-5209

SITE ADDRESS: 1855 W HENRI DE TONTI BLVD
 SPRINGDALE, AR, 72762

AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
 1849 W HENRI DE TONTI BLVD
 TONTITOWN, AR 72704

TAX MAP NUMBER: -
PARCEL NUMBER: 830-37879-200

SOURCE OF TITLE: DEED BOOK - PAGE -

LATITUDE: N 36° 10' 24.87"
LONGITUDE: W 94° 16' 04.97"

NO.	BY	DESCRIPTION	DATE	CHK	REVISIONS	
					CONSTRUCTION ISSUE	JTL
0	JTL	CONSTRUCTION ISSUE	05/20/24	JTL		
1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL		
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL		

TITLE: TITLE SHEET, SITE INFO AND SHEET INDEX

SHEET: T-1

SHEET NUMBER DESCRIPTION

T-1 TITLE SHEET, SITE INFO AND SHEET INDEX
 FN-1-3 FIELD NOTES
SURVEY
 S-1 OF 2 SURVEY PLAN
 S-2 OF 2 LEGAL DESCRIPTION AND EXHIBIT

ARCHITECTURAL

C-2 OVERALL SITE PLAN
 C-3 DETAILED SITE PLAN
 C-4 TOWER ELEVATIONS
 C-5-5A GRADING AND EROSION CONTROL PLAN
 C-6 FOUNDATION DETAILS
 C-7 ICE-BRIDGE DETAILS
 C-8 FENCE DETAILS
 C-9 CIVIL DETAILS
 C-10 ANTENNA AND COAX DETAILS
 C-11-11A EQUIPMENT DETAILS
 C-12 CONSTRUCTION NOTES
 C-13 COMPOUND SIGNAGE

ELECTRICAL

E-1-1A CONDUIT ROUTING PLAN
 E-2 GROUNDING PLAN
 E-3 EQUIPMENT GROUNDING PLAN
 E-4 ELECTRICAL AND GROUND NOTES
 E-5 UTILITY H-FRAME
 E-5A OVP ROUTING DETAIL
 E-6-6A ELECTRICAL DETAILS
 E-7 GROUNDING DETAILS
 E-8 GROUNDING DETAILS

TELCO

TD-1 TELCO ONE LINE DIAGRAM
 TD-2 TELCO SIGNAGE
 TD-3 HOFFMAN BOX REQUIREMENTS

REFERENCE DRAWINGS

RF-1-2 RF DATA SHEET

SHEET INDEX

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE ARKANSAS ONE CALL SYSTEM, PHONE 1-800-482-8998, WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE AT 12 INCHES ABOVE BURIED UTILITIES.

UTILITY PROTECTION NOTE

LESSEE'S PREMISES

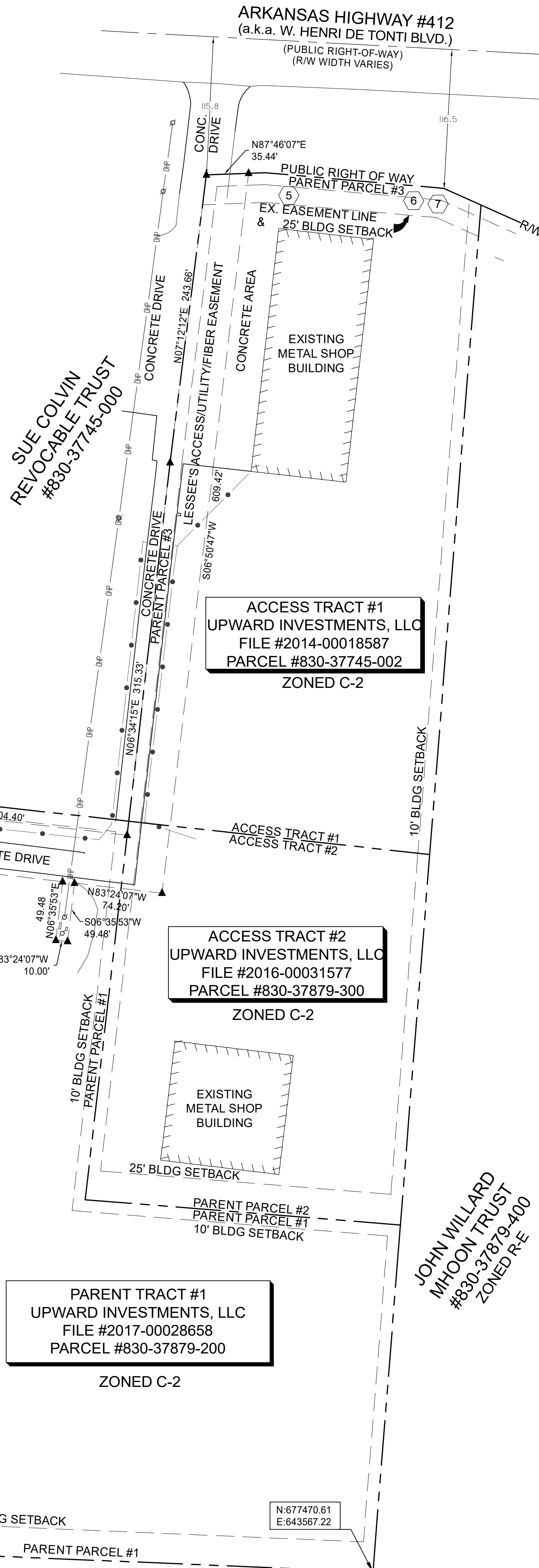
BEING A PART OF NE1/4, SE1/4, SECTION 3, T-17-N, R-31-W, WASHINGTON COUNTY, ARKANSAS MORE PARTICULARLY DESCRIBED AS BEGINNING AT THE SOUTHWEST CORNER OF THE SAID NE1/4, SE1/4; THENCE S87°35'28"E 83.89 FEET; THENCE N02°24'32"E 7.50 FEET TO THE TRUE POINT OF BEGINNING; THENCE N87°35'28"W 75.00 FEET; THENCE N02°24'32"E 75.00 FEET; THENCE S87°35'28"E 75.00 FEET; THENCE S02°24'32"W 75.00 FEET TO THE POINT OF BEGINNING CONTAINING 5625.0 SQUARE FEET, 0.13 ACRES, MORE OR LESS

LESSEE'S ACCESS/UTILITY/FIBER EASEMENT

BEING A PART OF NE1/4, SE1/4, SECTION 3, T-17-N, R-31-W, WASHINGTON COUNTY, ARKANSAS MORE PARTICULARLY DESCRIBED AS BEGINNING AT THE SOUTHWEST CORNER OF THE SAID NE1/4, SE1/4; THENCE S87°35'28"E 83.89 FEET; THENCE N02°24'32"E 7.50 FEET TO THE TRUE POINT OF BEGINNING; THENCE N02°24'32"E 30.00 FEET; THENCE S87°35'28"E 44.29 FEET; THENCE N14°43'09"E 215.99 FEET; THENCE N06°35'53"E 309.51 FEET; THENCE S 83°24'07"E 304.40 FEET; THENCE N 06°34'15"E 315.33 FEET; THENCE N 07°12'12"E 243.66 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF HENRI DE TONTI BLVD.; THENCE ALONG THE SAID SOUTHERLY RIGHT OF WAY LINE N 87°46'07"E 35.44 FEET; THENCE LEAVING THE SAID SOUTHERLY RIGHT OF WAY LINE OF HENRI DE TONTI BLVD THENCE S 06°50'47"W 609.42 FEET; THENCE N 83°24'07"W 74.20 FEET; THENCE S 06°35'53"W 49.48 FEET; THENCE N 83°24'07"W 10.00 FEET; THENCE N 06°35'53"E 49.48 FEET; THENCE N 83°24'07"W 220.01 FEET; THENCE S 06°35'53"W 263.13 FEET; THENCE S 14°15'54"W 245.08 FEET; THENCE N87°35'28"W 75.00 FEET TO THE POINT OF BEGINNING.

GENERAL NOTES:

- 1. TRACT IS SUBJECT TO RESTRICTIVE COVENANTS, SUBDIVISION, PLANNING AND ZONING REGULATIONS OF RECORD, IF ANY, AND IS SUBJECT TO SUCH FACTS AS AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
2. NO STATEMENT IS MADE CONCERNING SUBSURFACE CONDITIONS OR OVERHEAD CONTAINERS OR FACILITIES WHICH MAY AFFECT THE USE OR DEVELOPMENT OF THE TRACT, ENVIRONMENTAL AND SUBSURFACE CONDITIONS WERE NOT EXAMINED AS PART OF THIS SURVEY.
3. THIS PROPERTY IS SUBJECT TO ALL ROADWAYS, EASEMENTS AND/OR RESERVATIONS THAT ARE OF RECORD OR ARE PHYSICALLY IN PLACE.
4. BEARINGS ARE REFERENCED TO ARKANSAS STATE PLANE GRID NORTH (NAD83).
5. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH AND DESCRIBE A LEASE PARCEL AND ASSOCIATED EASEMENTS. THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL.
6. AT THE TIME OF THE SURVEY THERE WERE NO VISIBLE ENCROACHMENTS LOCATED ON THE LEASE OR EASEMENT AREAS OTHER THAN WHAT IS SHOWN HEREON.
7. THE LESSEE'S PREMISES AND EASEMENTS LIE IN A FLOOD ZONE "X", AREAS OF MINIMAL FLOOD HAZARD, BASED ON FLOOD INSURANCE RATE MAP #05143C0045F, EFFECTIVE APRIL 2, 2008.
8. LESSEE'S ACCESS & UTILITY EASEMENT TERMINATES AT PUBLIC RIGHT OF WAY
9. LESSEE'S PREMISES & EASEMENTS LIE ENTIRELY WITHIN THE PARENT PARCEL



PROPERTY ADDRESS: W HENRI DE TONTI BOULEVARD, TONTITOWN, ARKANSAS 72764, WASHINGTON COUNTY

CERTIFICATION PARCEL #830-37879-200

I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, L.L.C., A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; AND (1) TORONTO DOMINION (TEXAS) L.L.C., AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, L.L.C. AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, L.L.C. AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND SUMMIT SETTLEMENT SERVICES, L.L.C.

AS PER SUMMIT SETTLEMENT SERVICES COMMITMENT FOR TITLE INSURANCE, COMMITMENT NO. TWR-153272-C, ISSUED APRIL 10, 2024, THE FOLLOWING ITEMS ARE OF SURVEY MATTERS:

- 1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I—REQUIREMENTS ARE MET.
2. ANY RIGHTS, INTERESTS OR CLAIMS, WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS BUT WHICH COULD BE ASCERTAINED BY AN INSPECTION OF LAND OR WHICH MAY BE ASSERTED BY PERSONS IN POSSESSION THEREOF.
3. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER MATTERS WHICH A CORRECT SURVEY WOULD DISCLOSE AND WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS. (A) UNPATENTED MINING CLAIMS; (B) RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF; (C) WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT THE MATTERS EXCEPTED UNDER (A), (B) OR (C) ARE SHOWN IN THE PUBLIC RECORDS.
4. TAXES AND ASSESSMENTS FOR THE YEAR AND ALL SUBSEQUENT YEARS ARE A LIEN BUT NOT YET DUE AND PAYABLE.
5. THE RIGHT OF WAY GRANT BETWEEN MICHAEL G. & SUSAN L. MHOOON; AND ARKANSAS WESTERN GAS COMPANY, A CORPORATION, AND TONTITOWN WATER WORKS, DATED DECEMBER 16, 1992 AND RECORDED JANUARY 6, 1993 IN (INSTRUMENT) 93 00689, IN WASHINGTON COUNTY, ARKANSAS DOES AFFECT THE ACCESS AND UTILITY EASEMENT AS SHOWN.
6. THE RIGHT OF WAY GRANT BETWEEN SUE COLVIN; AND ARKANSAS WESTERN GAS COMPANY, A CORPORATION, DATED OCTOBER 6, 1999 AND RECORDED NOVEMBER 5, 1999 IN (INSTRUMENT) 99100056, IN WASHINGTON COUNTY, ARKANSAS DOES AFFECT THE ACCESS & UTILITY EASEMENT AS SHOWN.
7. THE EASEMENT AND RIGHT OF WAY GRANT BETWEEN SUE COLVIN, TRUSTEE OF THE SUE COLVIN REVOCABLE TRUST; AND TOWN OF TONTITOWN, TONTITOWN, ARKANSAS, DATED FEBRUARY 22, 2001 AND RECORDED MARCH 8, 2001 IN (INSTRUMENT) 2001023730, IN WASHINGTON COUNTY, ARKANSAS DOES AFFECT THE ACCESS & UTILITY EASEMENT AS SHOWN.
8. THE RIGHT OF WAY GRANT BETWEEN SUE COLVIN REVOCABLE TRUST; AND ARKANSAS WESTERN GAS COMPANY, A CORPORATION, DATED APRIL 4, 2001 AND RECORDED APRIL 13, 2001 IN (INSTRUMENT) 2001039599, IN WASHINGTON COUNTY, ARKANSAS DOES NOT APPEAR TO AFFECT THE LESSEE'S EASEMENTS OR LEASE BUT CAN'T BE ACCURATELY PLOTTED BECAUSE THE DESCRIPTION IS AMBIGUOUS.
9. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PLAT" DATED JUNE 22, 2006 AND RECORDED AUGUST 11, 2008 IN (INSTRUMENT) 2008-00026543 IN WASHINGTON COUNTY, ARKANSAS
10. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PLAT" DATED MARCH 22, 2011 AND RECORDED MARCH 23, 2011 IN (INSTRUMENT) 2011-00007888 IN WASHINGTON COUNTY, ARKANSAS.
11. TERMS AND CONDITIONS OF AN UNRECORDED LEASE, AS EVIDENCED BY A(N) MEMORANDUM OF LAND LEASE AGREEMENT BETWEEN UPWARD INVESTMENTS, L.L.C. AND CELCO PARTNERSHIP D/B/A VERIZON WIRELESS, DATED NOVEMBER 12, 2021 AND RECORDED NOVEMBER 22, 2021 IN (INSTRUMENT) 2021-00045001, IN WASHINGTON COUNTY, ARKANSAS, AFFECTED BY A(N) NON-DISTURBANCE AND ATTORNMENT AGREEMENT BETWEEN CELCO PARTNERSHIP D/B/A VERIZON WIRELESS (LESSEE), UPWARD INVESTMENTS, L.L.C. (LESSOR), AND SIGNATURE BANK OF ARKANSAS (LENDER), DATED NOVEMBER 12, 2021 AND RECORDED NOVEMBER 22, 2021 IN (INSTRUMENT) 2021-00045002, IN WASHINGTON COUNTY, ARKANSAS
12. ANY LOSS OR DAMAGE, INCLUDING THOSE ARISING FROM AN UNMARKETABLE TITLE CLAIM, AS THE RESULT OF POSSIBLE INADEQUATE EXECUTION, NOTARIZATION, OR AUTHORITY FOR THE OFFICER SIGNING TO BIND THE ENTITY, OR THE ENTITY NOT BEING IN GOOD STANDING.
13. RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY.

PARENT PARCEL

ALL THAT TRACT OR PARCEL OF LAND LOCATED IN THE COUNTY OF WASHINGTON, STATE OF ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TOWER TRACT: PART OF THE WEST HALF (W 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SE 1/4) OF SECTION 3, TOWNSHIP 17 NORTH, RANGE 31 WEST, WASHINGTON COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT A FOUND IRON PIN AT THE SOUTHWEST CORNER OF THE NE 1/2 OF THE SE 1/4 OF SAID SECTION 3; THENCE NORTH 649.85 FEET ALONG THE WEST LINE OF THE SAID W 1/2 OF THE SE 1/4 OF THE SE 1/4; THENCE S88°04'34"E 404.97 FEET; THENCE S02°10'14"W 320.24 FEET; THENCE S89°47'06"E 265.67 FEET TO THE EAST LINE OF THE SAID W 1/2 OF THE SE 1/4 OF THE SE 1/4; THENCE ALONG SAID EAST LINE S00°08'35"W 292.53 FEET; THENCE S88°01'13"W 657.94 FEET ALONG THE SOUTH LINE OF THE SAID W 1/2 OF THE NE 1/4 OF THE SE 1/4 TO THE POINT OF BEGINNING, CONTAINING 7.59 ACRES, MORE OR LESS.

ACCESS TRACT 1

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 3, TOWNSHIP 17 NORTH, RANGE 31 WEST, WASHINGTON COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID NE 1/4 OF THE SE 1/4, THENCE SOUTH 87 DEGREES, 35 MINUTES, 27 SECONDS EAST 657.95 FEET ALONG THE SOUTH LINE OF SAID NE 1/4 OF THE SE 1/4, THENCE NORTH 04 DEGREES, 31 MINUTES, 50 SECONDS EAST 605.00 FEET TO A SET IRON PIN AND THE POINT OF BEGINNING, THENCE NORTH 83 DEGREES 41 MINUTES 07 SECONDS WEST 254.47 FEET, THENCE NORTH 06 DEGREES 33 MINUTES 31 SECONDS EAST 305.44 FEET, THENCE NORTH 07 DEGREES 12 MINUTES 07 SECONDS EAST 243.66 FEET TO THE SOUTH RIGHT OF WAY OF U.S. HIGHWAY 412; THENCE ALONG SAID RIGHT OF WAY NORTH 87 DEGREES 36 MINUTES 02 SECONDS EAST 49.35 FEET, SOUTH 84 DEGREES 58 MINUTES 34 SECONDS EAST 151.13 FEET, AND SOUTH 65 DEGREES 40 MINUTES 10 SECONDS EAST 34.12 FEET TO A FOUND IRON PIN, THENCE LEAVING SAID RIGHT OF WAY SOUTH 04 DEGREES 31 MINUTES 50 SECONDS WEST 547.60 FEET TO THE POINT OF BEGINNING, CONTAINING 3.10 ACRES, MORE OR LESS. SUBJECT TO AND BENEFITING FROM A 22 FOOT WIDE INGRESS AND EGRESS EASEMENT, THE CENTERLINE OF WHICH BEGINS AT THE SOUTHWEST CORNER OF THIS PROPERTY, THENCE ALONG SAID CENTERLINE AS FOLLOWS: NORTH 06 DEGREES 33 MINUTES 31 SECONDS EAST 305.44 FEET AND NORTH 07 DEGREES 12 MINUTES 07 SECONDS EAST 243.66 FEET TO THE SOUTH RIGHT OF WAY OF U.S. HIGHWAY 412 AND ENDING THERE.

ACCESS TRACT 2

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 3, TOWNSHIP 17 NORTH, RANGE 31 WEST, WASHINGTON COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SW CORNER OF THE SAID NE 1/4 OF THE SE 1/4; THENCE N 88° 01' 13" E, 657.94 FEET ALONG THE SOUTH LINE OF SAID NE 1/4 OF THE SE 1/4; THENCE N 0° 08' 35" E, 292.53 FEET TO A FOUND IRON PIN AT THE POINT OF BEGINNING; THENCE N 0° 08' 33" E, 312.47 FEET; THENCE N 88° 04' 34" W, 254.47 FEET; THENCE S 2° 10' 14" W, 320.24 FEET TO A FOUND IRON PIN; THENCE S 89° 47' 08" E, 265.68 FEET TO THE POINT OF BEGINNING, CONTAINING 1.89 ACRES AND SUBJECT TO AND BENEFITING FROM A 22 FOOT WIDE INGRESS AND EGRESS EASEMENT, THE CENTERLINE OF WHICH BEGINS AT THE SW CORNER OF THIS PROPERTY; THENCE ALONG SAID CENTERLINE AS FOLLOWS: N 2° 10' 14" E, 623.68 FEET AND N 2° 48' 50" E, 243.66 FEET TO THE SOUTH RIGHT-OF-WAY OF U.S. HIGHWAY 412 AND ENDING THERE. SUBJECT TO ANY AND ALL RIGHTS-OF-WAY, EASEMENTS, OTHER RESTRICTIONS OF RECORD OR CLAIM, IF ANY.

PARCEL ID: 830-37879-200 (TOWER TRACT); 830-37745-002 (ACCESS TRACT 1); 830-37879-300 (ACCESS TRACT 2)

TOWER TRACT BEING THE SAME PROPERTY CONVEYED TO UPWARD INVESTMENTS, L.L.C. AN ARKANSAS LIMITED LIABILITY COMPANY FROM KAREN SUE MORGAN AND LARRY DON MORGAN, TRUSTEES OF THE KAREN SUE MORGAN REVOCABLE TRUST U/T/D JUNE 19, 2012 IN A WARRANTY DEED DATED SEPTEMBER 15, 2017 AND RECORDED SEPTEMBER 18, 2017 AS INSTRUMENT 2017-00028658 IN WASHINGTON COUNTY, ARKANSAS.

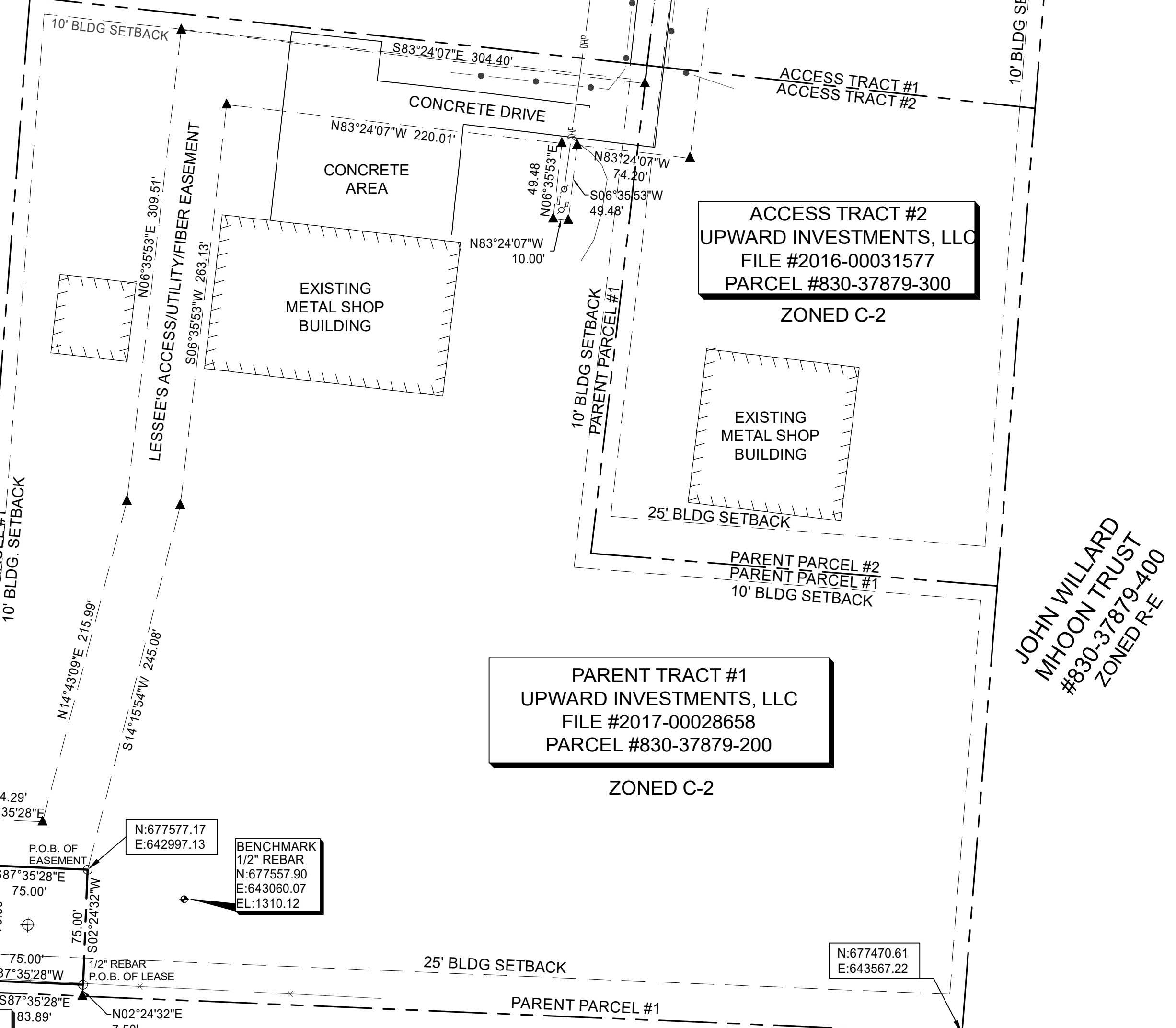
ACCESS TRACT 1 BEING THE SAME PROPERTY CONVEYED TO UPWARD INVESTMENTS, L.L.C. A LIMITED LIABILITY CORPORATION FROM MONAIE COLVIN, FKA MARTHA MONALE WALKER TRUSTEE OF THE MARTHA MONALE WALKER REVOCABLE TRUST DATED AUGUST 26, 2005 IN A WARRANTY DEED DATED JULY 18, 2014 AND RECORDED JULY 23, 2014 AS INSTRUMENT 2014-00018587 IN WASHINGTON COUNTY, ARKANSAS.

ACCESS TRACT 2 BEING THE SAME PROPERTY CONVEYED TO UPWARD INVESTMENTS, L.L.C. AN ARKANSAS LIMITED LIABILITY COMPANY FROM KAREN SUE MORGAN, LARRY DON MORGAN, TRUSTEES OF THE KAREN SUE MORGAN REVOCABLE TRUST U/T/D JUNE 19, 2012 IN A WARRANTY DEED DATED OCTOBER 24, 2016 AND RECORDED OCTOBER 25, 2016 AS INSTRUMENT 2016-00031577 IN WASHINGTON COUNTY, ARKANSAS.



MUSSINO PROPERTIES, LLC #001-16853-000 (NOT IN CITY LIMITS)

LESSEE'S PREMISES 5625 SQ. FT. 0.13 ACRES
F.A.A. 1A DESIGNATION NAD83 COORDINATES: N 36°10'24.87" W 94°16'04.97" GROUND ELEV = 1307.4
BENCHMARK 1/2" REBAR N-677577.90 E-643060.07 EL.1310.12



JOHN WILLARD MHOOON TRUST #830-37879-400 ZONED R-E

PAUL & CANDIS BLACK #830-37879-600 ZONED R-E

LEGEND: Symbols for F.A.A. 1A LOCATION, LIGHT POLE, POWER POLE, GUY LINE, OVERHEAD ELECTRIC, U/G ELECTRIC, WATER LINE, WATER METER, WATER VALVE, TITLE EXCEPTION, GAS LINE, GAS METER, TELEPHONE LINE, TELEPHONE RISER, SANITARY SEWER MANHOLE, FENCE LINE, STORM SEWER MANHOLE, CALCULATED OR ANGLE POINT, 1/2" IRON ROD WITH CAP SET, IRON ROD FOUND.

North arrow and scale bar. Text: BEARINGS ARE BASED ON ARKANSAS STATE PLANE GRID NORTH DERIVED FROM GPS OBSERVATIONS. Scale: 0, 60, 120, 180.

Vertical sidebar containing: CORNERSTONE SURVEYING & MAPPING logo, verticalbridge logo, project title 'HENRI DE TONTI #US-AR-5209 THE TOWERS, LLC.', project number 'LEASE & EASEMENT SURVEY', and a table with columns for NO., DATE, REVISION, and FINAL VERTICAL BRIDGE REVISIONS MADE.

THE INTEGRITY MANAGEMENT PROJECT MANAGER (IMPM) MUST BE ON SITE, AT A MINIMUM, FOR THE FOLLOWING INSPECTIONS REQUIRED BY VERIZON. GC IS REQUIRED TO PROVIDE A MINIMUM OF 48 HOURS NOTICE BEFORE EACH OF THESE INSPECTIONS:

1. PRE-CONSTRUCTION MEETING WITH PROJECT SUPERVISOR OR FOREMAN.
2. SHELTER, CABINET, GENERATOR PAD INSPECTION; BEFORE POUR AND AFTER POUR.
3. GROUND SYSTEM INSPECTION BEFORE BACKFILLING.
4. CONDUIT INSPECTION BEFORE BACKFILLING.
5. SETTING OF SHELTER, CABINETS AND GENERATOR.
6. MEG TESTING OF THE GROUND SYSTEM.
7. TOWER FOUNDATION CONSTRUCTION AND THE STACKING OF THE TOWER.

SPECIAL NOTE:

1. IN THE WTN AND NMS REGION, THE ESSE GENERATOR TECH DOES THE FUELING OF THE GENERATORS. THE PRE-START UP CHECK LIST MUST BE COMPLETED AND FORWARDED TO THE IMPM BEFORE HE CAN BE SCHEDULED TO PERFORM FUELING, START-UP AND LOAD TESTING. IN SHELBY COUNTY AND THE MEMPHIS CITY AREA, A FIRE MARSHALL INSPECTION AND PERMIT ARE ALSO REQUIRED. THE GC IS RESPONSIBLE TO OBTAIN THE PERMIT AND SCHEDULE THE FIRE MARSHALL TO BE ON SITE DURING FUELING AND START-UP.
2. CHANGE ORDERS: ALL CHANGES TO THE PROJECT (CONSTRUCTION DRAWINGS) MUST BE PRE-APPROVED THROUGH THE IMPM (J. LOCHRIDGE AND KEATON GRIFFORD) AND VERIZON (WAYLON CORLEY), PRIOR TO IMPLEMENTATION OF CHANGE. A FULL SIZE SET OF THE LATEST CONSTRUCTION DRAWINGS (CD'S), AND THESE SUPPLEMENTAL SPECIFICATIONS, SHOWING ALL CHANGES TO DATE, MUST BE KEPT ON SITE DURING THE COMPLETE PROJECT. IN ADDITION, PERMITS AND OTHER REQUIRED LEGAL DOCUMENTS MUST ALSO BE KEPT ON SITE. GC IS RESPONSIBLE FOR ESTABLISHING A PLACE TO KEEP THESE DOCUMENTS ON SITE, AND THE STORAGE SYSTEMS SHALL KEEP THE DOCUMENTS DRY, AND MUST BE ACCESSIBLE TO ALL THAT COME ON SITE.
3. ALL CHANGES TO THE PROJECT SHALL BE NOTED ON THE CONSTRUCTION DRAWINGS AND WILL BE INITIALED BY THE SITE FOREMAN AND THE IMPM. "RED-LINED" MARK-UPS ARE THE ONLY AUTHORIZED METHOD TO MAKE NOTES ON THE CD'S. ALL THE APPROVED CHANGES MUST BE NOTED ON THE SET OF AS-BUILTS SUBMITTED AT THE END OF THE PROJECT BY THE GC.

VERIZON - INTEGRITY MANAGEMENT PROJECT MANAGER

JERRY LOCHRIDGE
INTEGRITY MANAGEMENT, LLC
JLOCHRIDGE@INTEGRITYMGT.COM
(901) 545-9872

ONE-CALL UTILITY MARKING:

REQUESTED:

MARKED:

TELCO SERVICE PROVIDER:

FIBER WALK:

BID WALK:

BIDS DUE:

GENERAL CONTRACTOR:

G.C. ON-SITE SUPERVISOR:

BUILDING PERMIT RECEIVED:

VZW N.T.P.:

PRE-CONSTRUCTION WALK:

CONSTRUCTION START:

CONSTRUCTION START EMAIL TO VZW:

BUILDING FOUNDATION INSPECTION:

EQUIPMENT PAD INSPECTION:

CONDUIT INSPECTION:

GROUNDING INSPECTION:

MEG TEST:

ROOM READY:

A&L REVIEW:

PUNCH LIST DEVELOPED:

TOWER BOLTS RECEIVED:

TOWER FOUNDATION INSPECTION:

TOWER RECEIVED:

TOWER STACKED:

HVF AND TCN TO VZW:

TOWER PHOTOS TO VZW:

TOWER INFO UPLOADED TO SITETRACKER/FUZE:

VZW HOUGC EQUIPMENT DESIGN STANDARD PARAMETERS		
ITEM	STANDARD	NOTES
SITE LIGHTING	EQUIPMENT AREA MUST BE LIT AS WELL AS FACE OF CABINETS ON PAD/PLATFORM. LIGHTS ARE SHOWN WHERE REQUIRED TO ACHIEVE ADEQUATE WORK LIGHT CONDITIONS	SOME SITES MAY REQUIRE LIGHTING PLACEMENT DEVIATION DEPENDING ON SITE CONDITIONS. LIGHTS MUST BE ON TWIST TIMERS
ICE BRIDGE	ICE BRIDGE NOT SHOWN OVER ELECTRICAL EQUIPMENT ON PADS DUE TO REGIONAL SITE CONDITIONS.	
EQUIPMENT PAD WITH GENERATOR	11'x4" WITH AWNING. PAD MUST SUPPORT (1) PRIMARY, (1) BATTERY, & (1) FUTURE CABINET. CABINETS 4'-6" FROM EDGE TO PAD.	50KW KOHLER GENERATOR
EQUIPMENT PAD WITHOUT GENERATOR	11'x9'-2" WITH AWNING. PAD MUST SUPPORT (1) PRIMARY, & (4) BATTERY CABINETS. CABINETS 4'-6" FROM EDGE OF PAD.	WHEN PLANNING CONDUIT ROUTES FOR BATTERY CABLE DROPS, ALARMS, ETC. THE CONDUIT SHOULD ROUTE ABOVE UTILIZING AWNING SUPPORT STRUCTURE
EQUIPMENT PLATFORM WITH GENERATOR	14'-6"x19'-8" PLATFORM WITH AWNING. MUST SUPPORT (1) PRIMARY, (1) BATTERY, & (1) FUTURE CABINET. MUST ALLOW ADEQUATE WALKING SPACE FOR MAINTENANCE.	50KW KOHLER GENERATOR
EQUIPMENT PLATFORM WITHOUT GENERATOR	14'-6"x19'-8" PLATFORM WITH AWNING. MUST SUPPORT (1) PRIMARY, & (4) BATTERY CABINETS. MUST ALLOW ADEQUATE WALKING SPACE FOR MAINTENANCE.	
FIBER CONDUIT REQUIREMENTS	(2) 2" SCH. 40 PVC CONDUIT AND (2) PULL STRING EACH (4 TOTAL) 36" DEEP UNDERGROUND FROM HAND HOLE TO TELCO DEMARC ON EQUIPMENT RACK.	
ELECTRIC REQUIREMENTS	SITE MUST BE DESIGNED TO SUPPORT (8) RECTIFIERS & (1) BATTERY CABINET.	RECTIFIER USED IS GE - NE07AC45ATEZ

SPECIAL NOTES:

(1). HAND HOLES: 30"x48"x24"D

(2). PULL BOX: 17"x30"x24"D

(3). HOFFMAN BOX: 30"x30"x10"

(4). TELCO JUNCTION BOX: 24"x24"x10"D

GENERATOR ALARM COLOR SCHEME:

(1). GENERATOR RUN: GREEN/GREEN WHITE

(2). GENERATOR FAIL: BLUE/BLUE WHITE

(3). LOW FUEL: ORANGE/ORANGE WHITE

NOTE: GENERATOR ALARMS DO NOT GO THROUGH THE JUNCTION BOX

NOTE: IF THIS SITE REQUIRES AN LPG FUEL TANK, IT WILL ALSO REQUIRE "LOW FUEL" ALARM FROM TANK TO CABINET IN SCH 80 PVC CONDUIT.



SITE NAME: HENRI DE TONTI AR-A

SITE NUMBER: 634843

SITE ADDRESS: 1855 W HENRI DE TONTI BLVD
SPRINGDALE, AR, 72762

AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
1849 W HENRI DE TONTI BLVD
TONTITOWN, AR 72704

TAX MAP NUMBER: - **PARCEL NUMBER:** 830-37879-200

SOURCE OF TITLE: DEED BOOK - PAGE -

LATITUDE: 36° 10' 24.87" **LONGITUDE:** W 94° 16' 04.97"

NO.	BY	DESCRIPTION	DATE	CHK	REVISIONS	
					DATE	BY
0	JTL	CONSTRUCTION ISSUE	05/20/24	JTL		
1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL		
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL		

TITLE: FIELD NOTES

SHEET: FN-1

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ALL FIELD CHANGES AND MODIFICATIONS TO THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS MUST BE NOTED HERE AND INITIALED BY BOTH FIELD SUPERVISOR AND INTEGRITY MANAGEMENT PROJECT MANAGER
DO NOT FUEL GENERATOR. ESSE WILL FUEL GENERATOR AFTER ADDING OVERFLOW RELIEF VALVE AND PRESSURE TESTING FUEL TANK.



750 PARK OF
COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367



CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & DESIGNERS
3001 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427

**REFERENCE
ONLY**

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TAX MAP NUMBER: - PARCEL NUMBER:
- 830-37879-200

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2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

TITLE:
FIELD NOTES

SHEET:
FN-2

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DO NOT FUEL GENERATOR. ESSE WILL FUEL GENERATOR AFTER ADDING OVERFLOW RELIEF VALVE AND PRESSURE TESTING FUEL TANK.



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**REFERENCE
ONLY**

SITE NAME:	HENRI DE TONTI AR-A
SITE NUMBER:	634843
SITE ADDRESS:	1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA:	LEASE AREA = 5625 SF
PROPERTY OWNER:	UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
TAX MAP NUMBER:	PARCEL NUMBER: - 830-37879-200
SOURCE OF TITLE:	DEED BOOK - PAGE -
LATITUDE:	LONGITUDE:
36° 10' 24.87"	W 94° 16' 04.97"

REVISIONS				
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1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

TITLE:
FIELD NOTES

SHEET:
FN-3

SITE PLAN NOTES:

THE PROPOSED DEVELOPMENT IS FOR A 195 FOOT MONOPOLE TOWER (PLUS A 4 FOOT LIGHTNING ARRESTOR) WITH MULTIPLE CARRIERS. ITS LOCATION IS AT 1855 W HENRI DE TONTI BLVD, SPRINGDALE, AR 72762

THE TOWER WILL BE ACCESSED BY A PROPOSED STABILIZED DRIVE FROM AN EXISTING ASPHALT ROADWAY (HENRI DE TONTI BLVD). THE ACCESS ROAD IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL HIGHWAY DEPARTMENT OF TRANSPORTATION STANDARDS. WATER, SANITARY SEWER AND WASTE COLLECTIONS SERVICES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT.

CENTERLINE OF PROPOSED TOWER GEOGRAPHIC LOCATIONS:

LATITUDE: 36° 10' 24.87" N
LONGITUDE: 94° 16' 04.97" W

NOTE:

1. REMOVE ALL VEGETATION AND CLEAN AREA WITHIN LEASE AREA (CLEAR AND GRUB ENTIRE LEASE AREA).
2. FINISH GRADING TO PROVIDE EFFECTIVE DRAINAGE WITH A SLOPE OF NO LESS THAN ONE EIGHT INCH (1/8") PER FOOT FLOWING AWAY FROM EQUIPMENT FOR A MINIMUM DISTANCE OF SIX FEET (6') IN ALL DIRECTIONS.
3. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
4. COMPOUND FINISHED SURFACE TO BE FENCED.
5. ALL REFERENCES TO THE TOWER AND ITS FOUNDATION ARE DIRECTED TO THE DESIGN AND DETAIL DRAWINGS BY THE TOWER SUPPLIER WHICH SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF #####.
6. CONTRACTOR TO PLACE CULVERTS, DRAINAGE DITCHES, DIVERTERS, ETC. AS REQUIRED TO CONTROL DRAINAGE ACROSS ACCESS DRIVE AND TO MINIMIZE EROSION.
7. CONTRACTOR TO ORIENT TOWER SUCH THAT AN OPEN COAX PORT FACES FRONT GATE AND LESSEE'S PROPOSED ICE-BRIDGE AS DEPICTED. LESSEE TO RECEIVE A HIGH PORT (±10' AGL).

LINE	ANGLE	DISTANCE
L1	N 87°35'28" W	75.00
L2	N 02°24'32" E	75.00
L3	S 87°35'28" E	75.00
L4	S 02°24'32" W	75.00

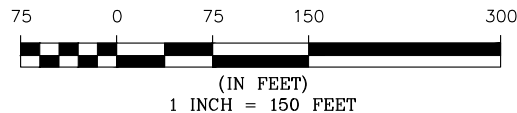
BENCHMARK

ELEVATION: 1310.12' M.S.L.
1/2" REBAR
(SEE PLAN FOR LOCATION)

LEGEND

- OHE — EXISTING OVERHEAD ELECTRIC
- OHT — EXISTING OVERHEAD TELEPHONE
- UGE — EXISTING UNDERGROUND ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- x — x — FENCE LINE
- — — LEASE LINE
- P/L — P/L — APPROXIMATE PROPERTY LINE
- R/W — R/W — APPROXIMATE RIGHT OF WAY
- ⊕ POWER POLE
- ⊕ FIRE HYDRANTS
- ⊕ WATER VALVES
- BOLLARDS
- ⊕ SET 5/8" IRON PIN WITH CAP
- ⊕ BENCHMARK
- ⊕ FOUND #5 REBAR
- ⊕ UTILITY POLE GUY WIRE

GRAPHIC SCALE



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

verticalbridge

Bowman

CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
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PHONE: (502) 459-8402 FAX: (503) 459-8427

07/08/2024

STATE OF ARKANSAS

LICENSED PROFESSIONAL ENGINEER

No. 19473

JEFFREY T. LASHBROOK

SITE NAME: HENRI DE TONTI AR

SITE NUMBER: US-AR-5209

SITE ADDRESS: 1855 W HENRI DE TONTI BLVD
SPRINGDALE, AR, 72762

AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
1849 W HENRI DE TONTI BLVD
TONTITOWN, AR 72704

TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200

SOURCE OF TITLE: DEED BOOK - PAGE -

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2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL	JTL

TITLE: OVERALL SITE PLAN

SHEET: C-2

WINNMS RAWLAND 08-12-2022

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SITE PLAN NOTES:

THE PROPOSED DEVELOPMENT IS FOR A 195 FOOT MONOPOLE TOWER (PLUS A 4 FOOT LIGHTNING ARRESTOR) WITH MULTIPLE CARRIERS. ITS LOCATION IS AT 1855 W HENRI DE TONTI BLVD, SPRINGDALE, AR 72762

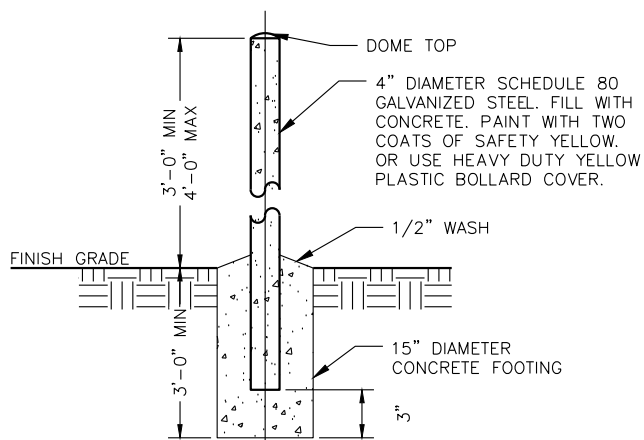
THE TOWER WILL BE ACCESSED BY A PROPOSED STABILIZED DRIVE FROM AN EXISTING ASPHALT ROADWAY (HENRI DE TONTI BLVD). THE ACCESS ROAD IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL HIGHWAY DEPARTMENT OF TRANSPORTATION STANDARDS. WATER, SANITARY SEWER AND WASTE COLLECTIONS SERVICES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT.

CENTERLINE OF PROPOSED TOWER GEOGRAPHIC LOCATIONS:

LATITUDE: 36° 10' 24.87" N
LONGITUDE: 94° 16' 04.97" W

CONSTRUCTION KEYNOTES:

- ① PROPOSED LESSEE AUTOMATIC TRANSFER SWITCH INSTALLED ON EQUIPMENT.
- ② PROPOSED LESSEE ELECTRIC METER AND DISCONNECT. 4-GANG, 600A METER PANEL AND SOCKETS BY THIS CONTRACT. METER BY UTILITY COMPANY.
- ③ PROPOSED 30" X 30" X 10" TELCO HOFFMAN BOX INSTALLED ON UTILITY H-FRAME



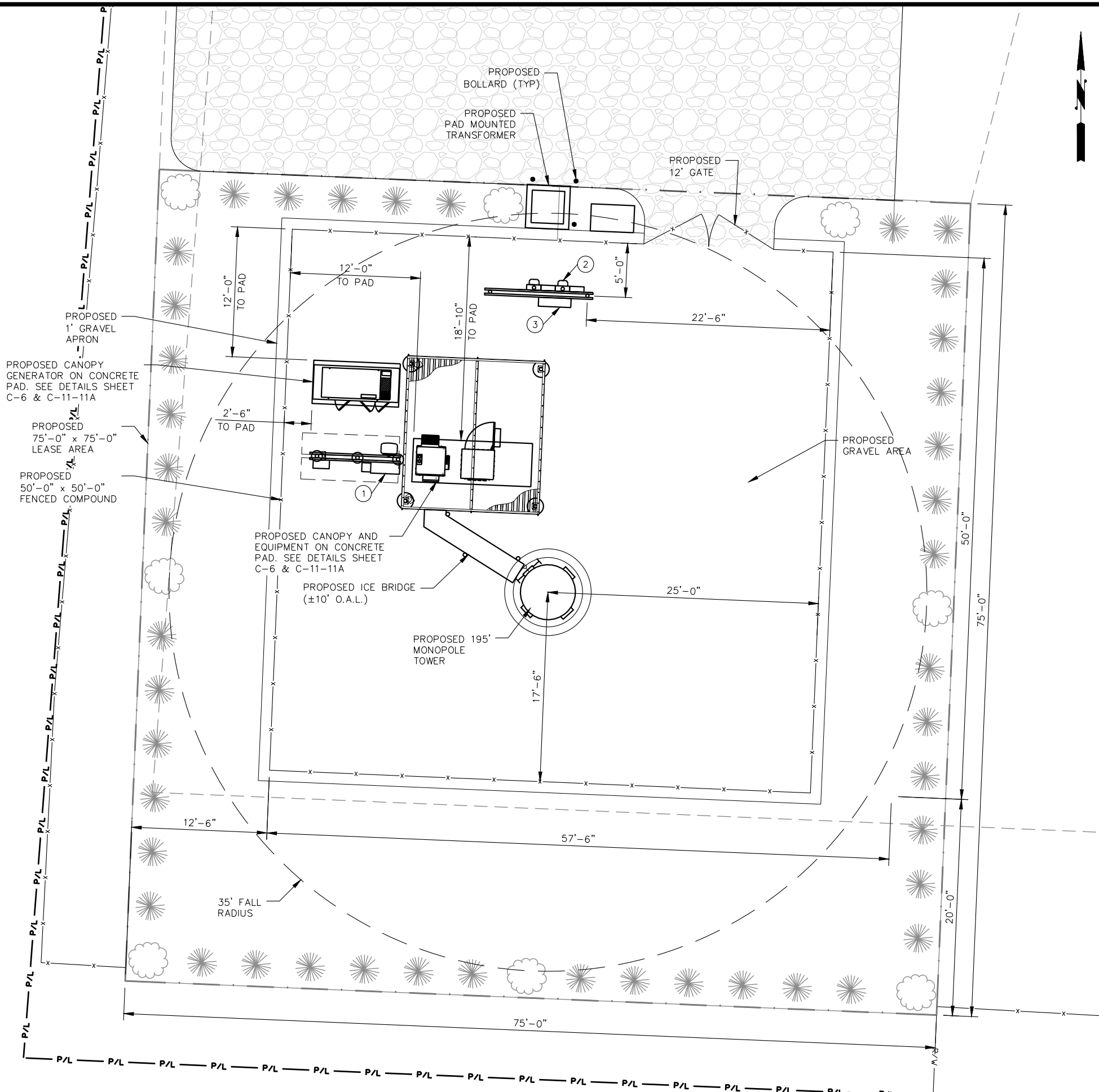
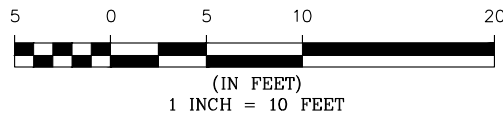
BOLLARD DETAIL
NTS

NOTE:
CONTRACTOR TO CONFIRM ALL BOLLARDS ARE SPACED A MINIMUM OF 3' FROM GENERATOR TANK AND A MAX OF 4' O.C. SEPARATION

LEGEND

- OHE — EXISTING OVERHEAD ELECTRIC
- OHT — EXISTING OVERHEAD TELEPHONE
- UGE — EXISTING UNDERGROUND ELECTRIC
- UGT — EXISTING UNDERGROUND TELEPHONE
- x-x- FENCE LINE
- — LEASE LINE
- P/L- P/L- APPROXIMATE PROPERTY LINE
- R/W- R/W- APPROXIMATE RIGHT OF WAY
- ○ POWER POLE
- ○ FIRE HYDRANTS
- ○ WATER VALVES
- ○ BOLLARDS
- SET 5/8" IRON PIN WITH CAP
- BENCHMARK
- FOUND #5 REBAR
- UTILITY POLE GUY WIRE

GRAPHIC SCALE



verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
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Bowman
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07/08/2024
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19473
JEFFREY T. LASHBROOK

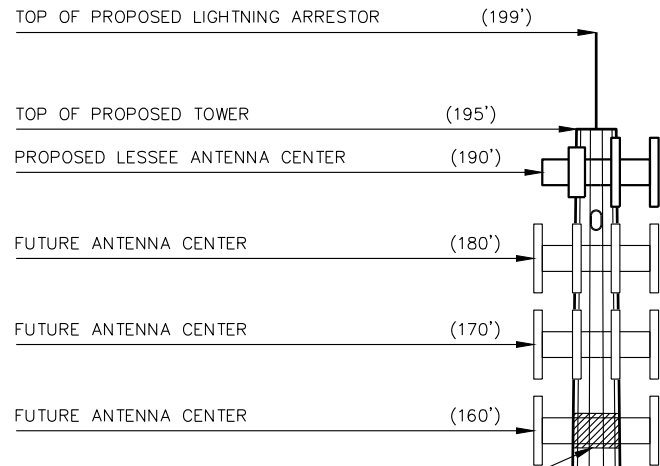
SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD, SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC, 1849 W HENRI DE TONTI BLVD, TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: N 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

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TITLE: DETAILED SITE PLAN
SHEET: C-3
WINNMS RAWLAND 08-12-2022

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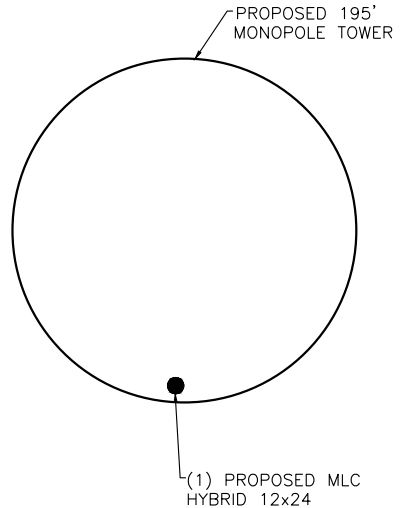
TOWER TO HAVE A DESIGNED BREAK POINT 35' BELOW TOP OF TOWER TO CREATE A 35' FALL ZONE.

NOTE:
GENERAL CONTRACTOR TO REMOVE 6 INCHES FROM LIGHTNING ROD SO OVERALL TOWER HEIGHT DOES NOT EXCEED THE HEIGHT AUTHORIZED

NOTE:
THE ELEVATIONS SHOWN ON THIS SHEET ARE FOR PICTORIAL PURPOSES ONLY. REFER TO TOWER PLANS FOR TOWER DESIGN.

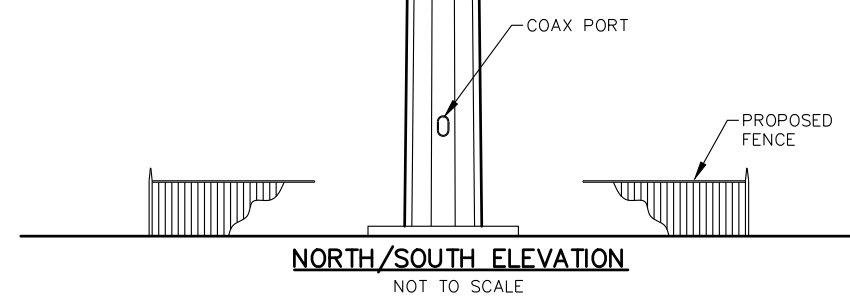
ROUTE PROPOSED COAXIAL LINES INTERNALLY THROUGH MONOPOLE USING TOP AND BOTTOM COAX PORTS IN TOWER SHELL.

GENERAL CONTRACTOR TO SET ICE-BRIDGE TO FACE AN OPEN COAX PORT. VERIZON TO RECEIVE A HIGH PORT (±7'-6" AGL).

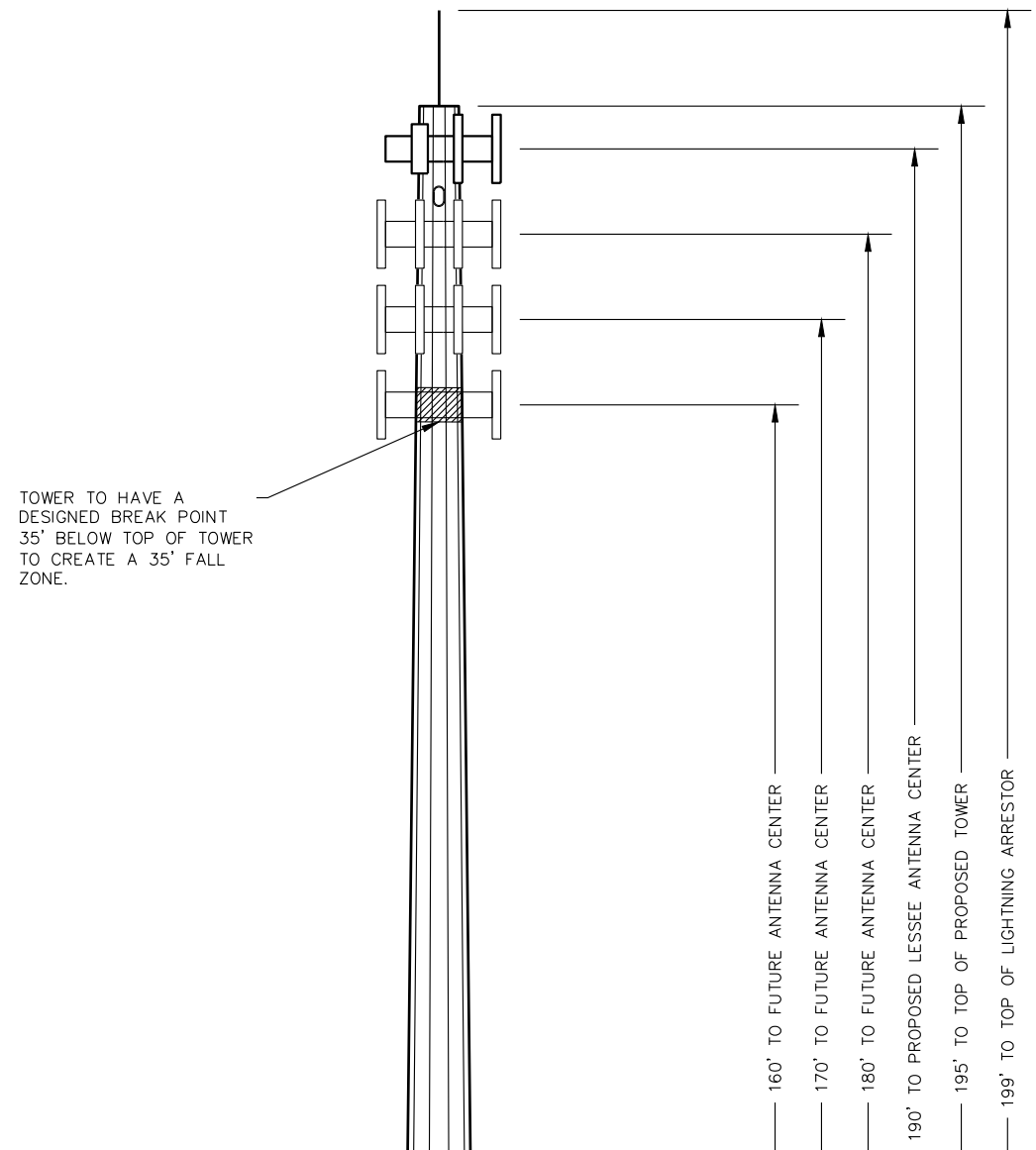


PROPOSED COAX PLAN
SCALE: NTS

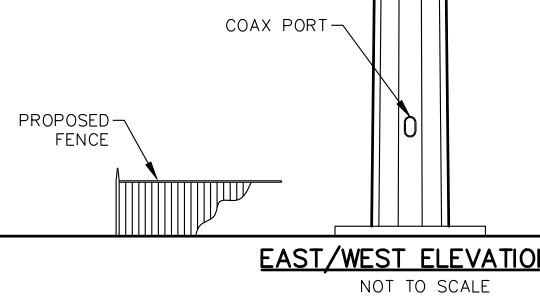
NOTE:
AS SOON AS TOWER STACK IS COMPLETE, GC IS TO ATTACH THE ASR# TO THE FACE OF THE TOWER. IF THE PERMANENT SIGN IS NOT YET AVAILABLE THEN GC SHALL USE HOUSE NUMBERS (2" MIN) AND ATTACH TO TOWER. LETTERS MUST BE SEEN AND READABLE FROM FRONT GATE.



NORTH/SOUTH ELEVATION
NOT TO SCALE



TOWER TO HAVE A DESIGNED BREAK POINT 35' BELOW TOP OF TOWER TO CREATE A 35' FALL ZONE.



EAST/WEST ELEVATION
NOT TO SCALE

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

Bowman
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300 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427



SITE NAME:		HENRI DE TONTI AR	
SITE NUMBER:		US-AR-5209	
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762			
AREA:		LEASE AREA = 5625 SF	
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704			
TAX MAP NUMBER:		PARCEL NUMBER: - 830-37879-200	
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TITLE: TOWER ELEVATIONS

SHEET: C-4
WINNMS RAWLAND 08-12-2022


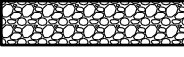
GENERAL NOTES: EROSION CONTROL

1. SILT CONTROL MEASURES SHALL BE MAINTAINED IN GOOD OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
2. CONSTRUCTION ACCESS SHALL BE CONTROLLED AT GRAVELED DRIVES TO PREVENT CONSTRUCTION VEHICLES FROM TRACKING MUD ONTO ADJACENT ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENTRANCES FREE FROM MUD, DIRT, DEBRIS, ETC.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF SOIL EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE DEVICES DURING THE GRADING AND CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE VEGETATIVE COVER HAS BECOME ESTABLISHED.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES AS REQUIRED BY THE OWNER'S ENGINEER TO PROTECT EXISTING PLANT MATERIAL UNLESS OTHERWISE DESIGNED FOR REMOVAL.
5. TOPSOIL SHALL BE STRIPPED, STORED AND ADEQUATELY PROTECTED FROM EROSION ON SITE BEFORE USE FOR FINAL GRADING.
6. ADJUSTMENTS AND/OR ADDITIONS TO THE PLACEMENT OF EROSION CONTROL MEASURES MAY BE NECESSARY IN THE FIELD. THIS SHALL BE DONE BY THE CONTRACTOR AT THE DIRECTION OF THE OWNER OR THE OWNER'S ENGINEER.
7. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
8. SILT CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES PER THE E.P.A.'S 1992 "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CLEARING.
10. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
11. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

GENERAL NOTES: EXCAVATION AND GRADING

1. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
2. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
3. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS AND SO FORTH.
4. BACKFILLING SHALL:
 - BE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE;
 - BE FREE FROM CLODS OR STONES OVER 2 1/2" MAXIMUM DIMENSION;
 - BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR IS ACCEPTABLE. CONTRACTOR SHALL PROVIDE A 3RD PARTY COMPACTION TEST TO VERIFY COMPACTION.
5. PROTECT GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAUNAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
6. ALL CUT AND FILL SLOPES SHALL BE 2.5:1 MAXIMUM, UNLESS OTHERWISE NOTED.
7. ENSURE POSITIVE DRAINAGE FROM SITE AT ALL TIMES. AVOID TRAPPING WATER.

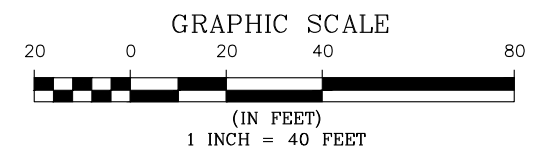
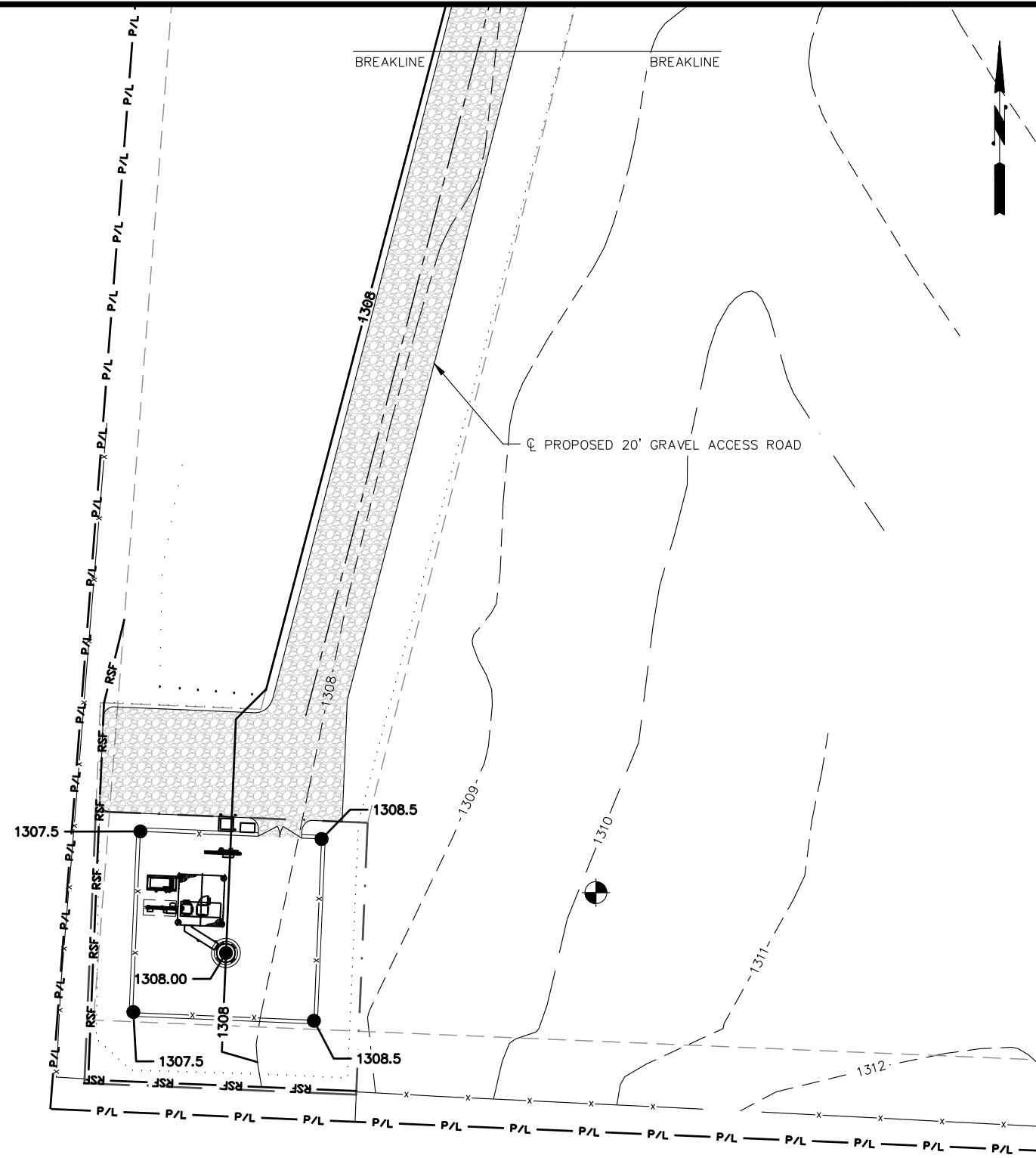
SWPPP LEGEND

- PROPOSED LIMITS OF DISTURBANCE
- RSF — RSF — PROPOSED SILT FENCE
- — — PROPOSED CHANNEL
- ▶▶▶▶▶ PROPOSED ROCK CHECK DAM
-  PROPOSED ROLLED EROSION CONTROL PRODUCTS (RECP) (NA GREEN C350 OR APPROVED EQUIVALENT)
-  PROPOSED OUTLET PROTECTION
- PS DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING
- MU DISTURBED AREA STABILIZATION WITH STRAW MULCHING

LIMITS OF DISTURBANCE:
±0.68 AC

NOTE: CONTRACTOR TO TIE INTO EXISTING GRADES AT A MAXIMUM OF A 4:1 SLOPE. IF STEEPER SLOPES ARE NECESSARY, CONTRACTOR IS TO STABILIZE SLOPES WITH NORTH AMERICAN GREEN C350 EROSION CONTROL MATTING OR APPROVED EQUIVALENT.

NOTE: THIS PLAN DEPICTS GRADING ACTIVITIES OUTSIDE OF THE PROPOSED VERIZON LEASEHOLD. LANDOWNER APPROVAL SHALL BE OBTAINED PRIOR TO COMMENCING THE SITE GRADING SHOWN HEREON.



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3001 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427

07/08/2024
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19473
JEFFREY T. LASHBROOK

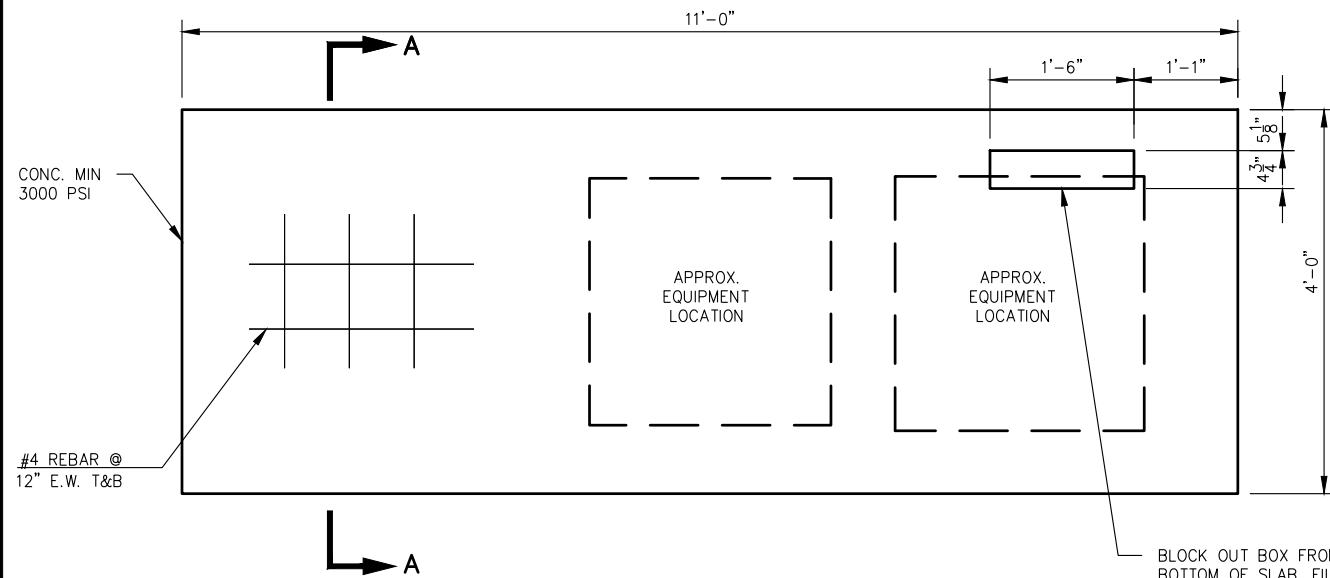
SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: N 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

NO.	BY	DESCRIPTION	DATE	CHK
0	JTL	CONSTRUCTION ISSUE	05/20/24	JTL
1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

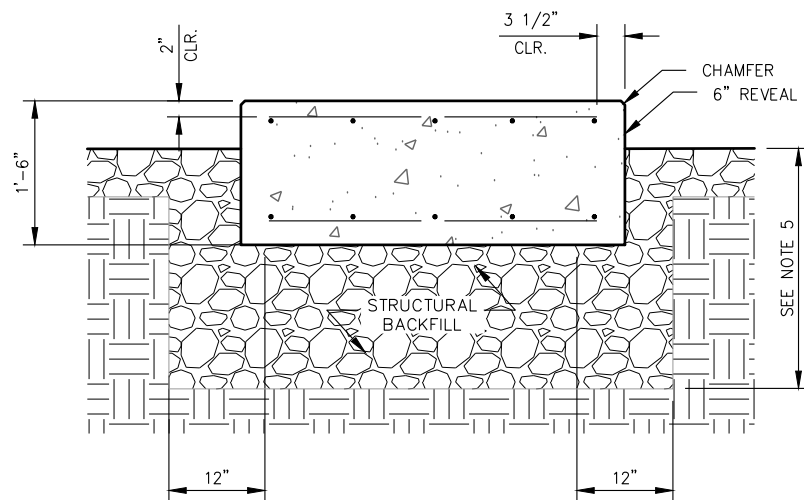
TITLE: GRADING AND EROSION CONTROL PLAN

SHEET: C-5
WINNMS RAWLAND 08-12-2022

V:\240900 - Telecom Projects\Engineering\Henri De Tonti - COVER AND PLANS.dwg, C-5, 7/8/2024 1:36:22 PM, jlashbrook



CABINET PAD PLAN
NTS

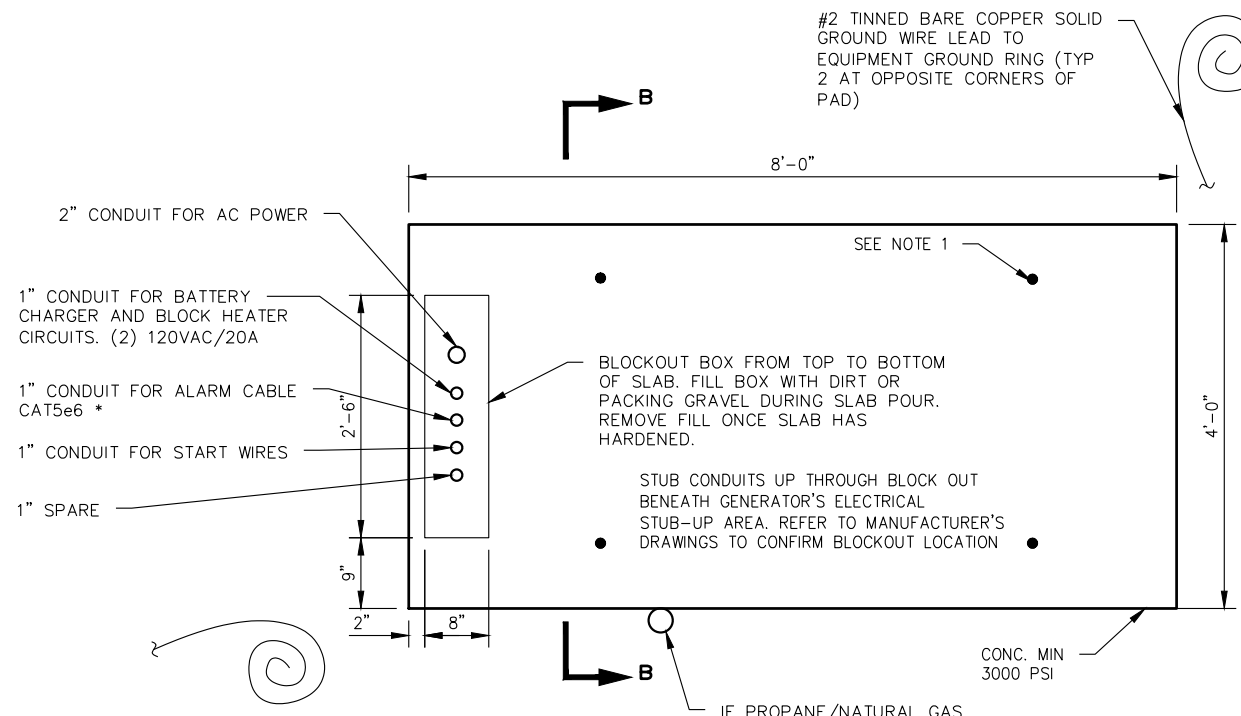


SECTION A - A

SINGLE EQUIPMENT CABINET FOUNDATION
NTS

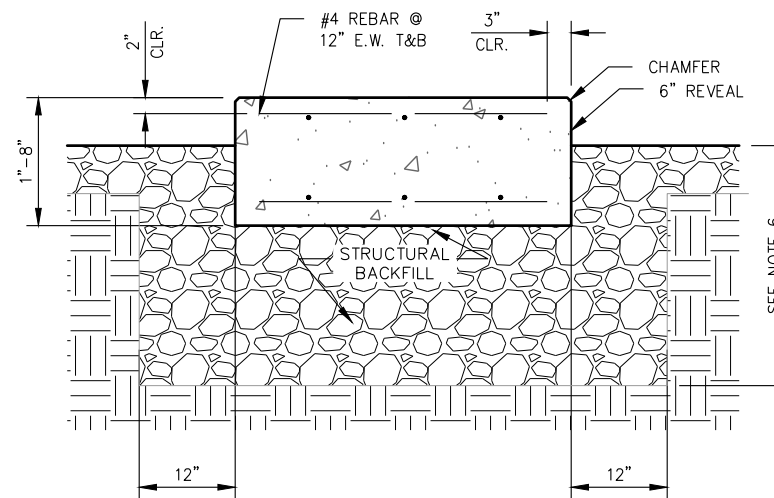
NOTES:

1. SLAB TOLERANCE INCLUDING LEVEL IS 1/4".
2. ADDITIONAL ENGINEERING IS REQUIRED IF THE FOUNDATION IS PLACED ON SOIL WITH A BEARING CAPACITY OF LESS THAN 2000 PSF.
3. ALL REBAR SHALL BE A GRADE 60 MINIMUM.
4. OVERLAP SPLICES ARE ALLOWED FOR REINFORCING BARS. USE 24" MINIMUM LAP.
5. 30" MINIMUM, BUT MAY VARY AS REQUIRED PER LOCAL CODE, FROST LINE AND/OR SOIL BEARING CAPACITY.
6. FOUNDATION DESIGNS PROVIDED BY OTHERS. BTM ENGINEERING HAS NOT CONDUCTED AN ANALYSIS OF THESE FOUNDATIONS AND ACCEPTS NO LIABILITY FOR USE. ALL LIABILITY FOR USE OF THESE FOUNDATIONS IS ASSUMED BY VERIZON.



* GENERATOR ALARM CABLE MUST BE SHIELDED AND GROUNDED INSIDE THE GENERATOR.

GENERATOR PAD PLAN (30-50KW)
NTS



SECTION B - B

GENERATOR FOUNDATION
NTS

NOTES:

1. FIELD LOCATE (4) 3/4" DIA. HILTI HVA ADHESIVE ANCHORS WITH 6-5/8" EMBEDMENT INSTALLED PER MANUFACTURER'S RECOMMENDATION.
2. SLAB TOLERANCE INCLUDING LEVEL IS 1/4".
3. ADDITIONAL ENGINEERING IS REQUIRED IF THE GENERATOR FOUNDATION IS PLACED ON SOIL WITH A BEARING CAPACITY OF LESS THAN 2000 PSF.
4. ALL REBAR SHALL BE GRADE 60 MINIMUM.
5. OVERLAP SPLICES ARE ALLOWED FOR REINFORCING BARS. USE 24" MINIMUM LAP.
6. 30" MINIMUM, BUT MAY VARY AS REQUIRED PER LOCAL CODE, FROST LINE AND/OR SOIL BEARING CAPACITY.
7. ORIENT GENERATOR WITH EXHAUST AWAY FROM AIR CONDITIONING UNITS.
8. FOUNDATION DESIGNS PROVIDED BY OTHERS. BTM ENGINEERING HAS NOT CONDUCTED AN ANALYSIS OF THESE FOUNDATIONS AND ACCEPTS NO LIABILITY FOR USE. ALL LIABILITY FOR USE OF THESE FOUNDATIONS IS ASSUMED BY VERIZON.

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07/08/2024

STATE OF ARKANSAS

LICENSED PROFESSIONAL ENGINEER

No. 19473

JEFFREY T. LASHBROOK

SITE NAME: HENRI DE TONTI AR

SITE NUMBER: US-AR-5209

SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762

AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704

TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200

SOURCE OF TITLE: DEED BOOK - PAGE -

LATITUDE: 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

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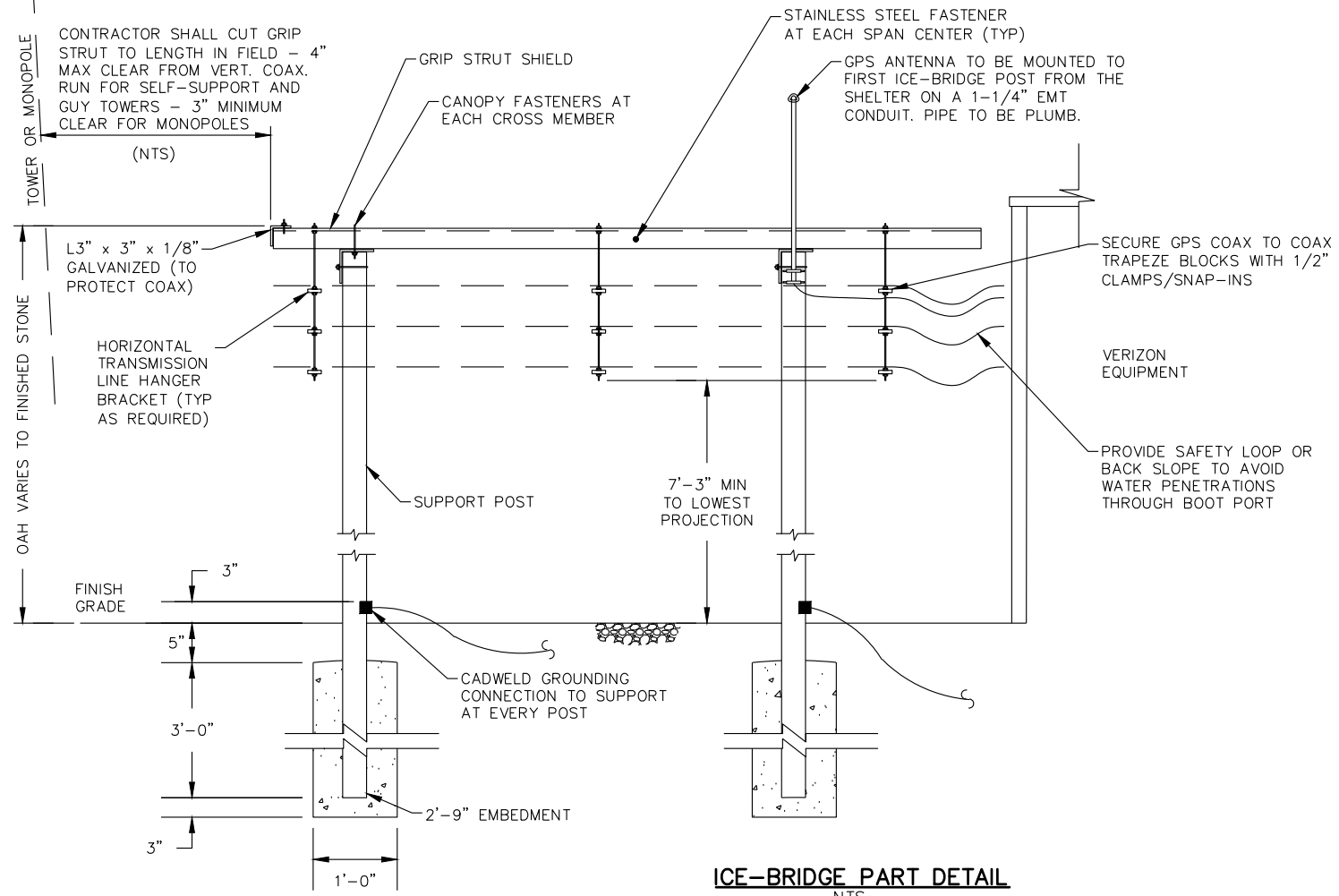
TITLE: FOUNDATION DETAILS

SHEET: C-6

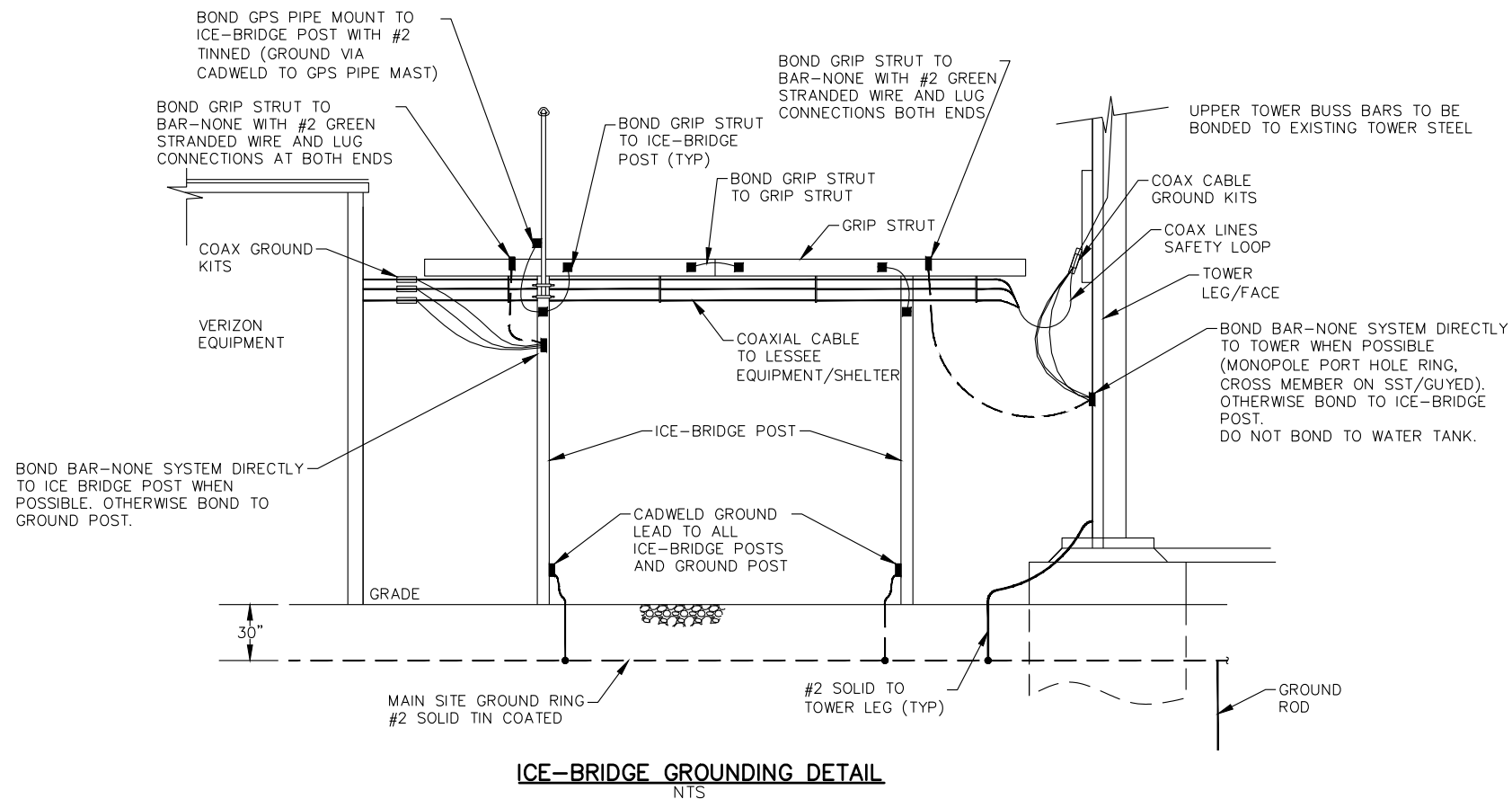
WINNMS RAWLAND 08-12-2022

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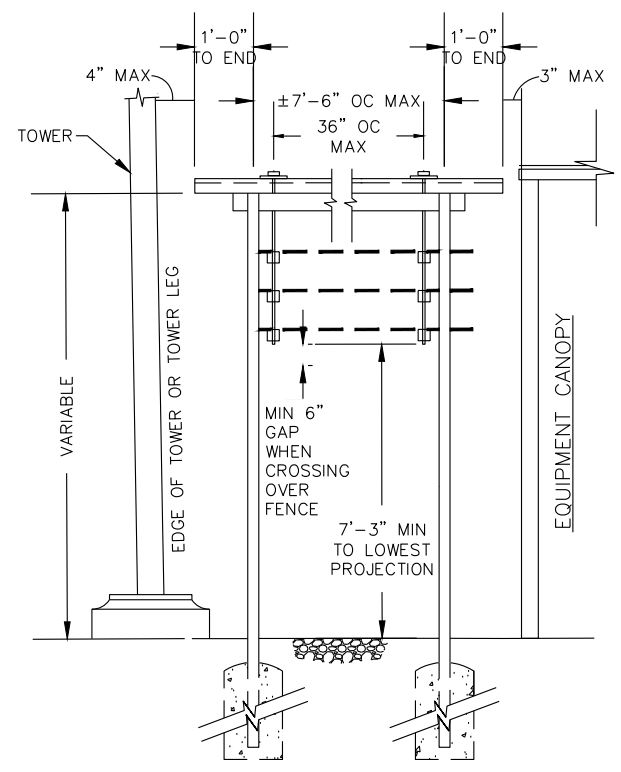
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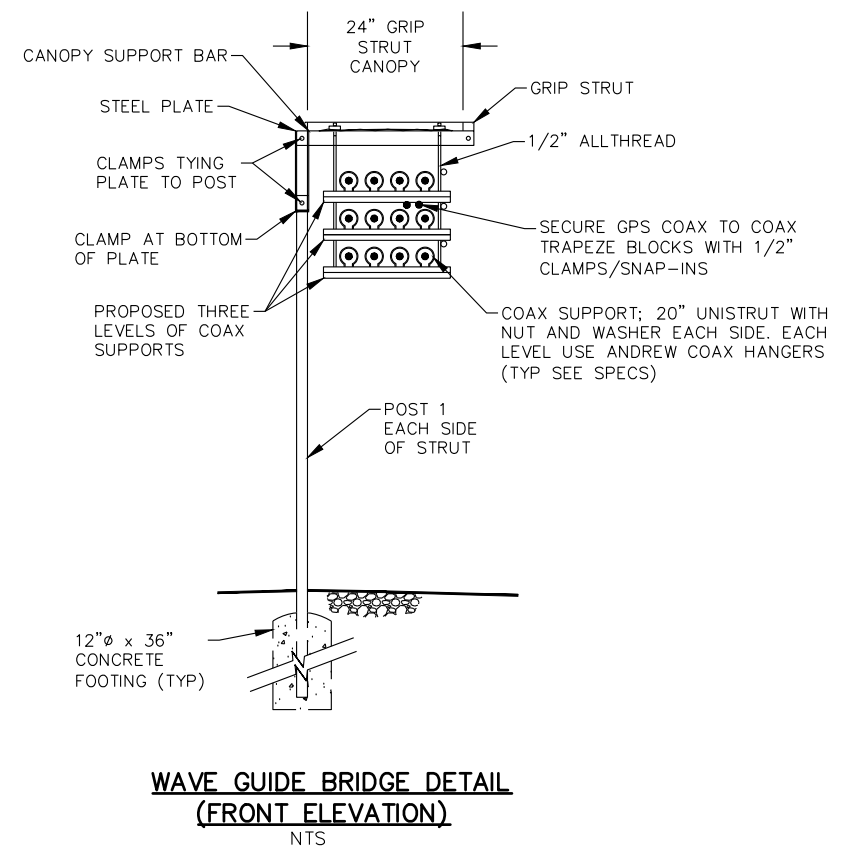
ICE-BRIDGE PART DETAIL
NTS



ICE-BRIDGE GROUNDING DETAIL
NTS



WAVE GUIDE BRIDGE DETAIL (SIDE ELEVATION)
NTS



WAVE GUIDE BRIDGE DETAIL (FRONT ELEVATION)
NTS

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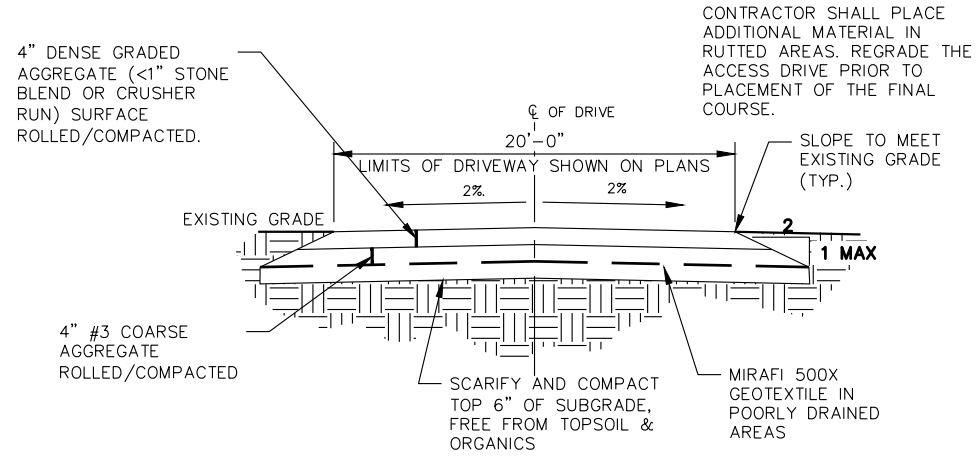
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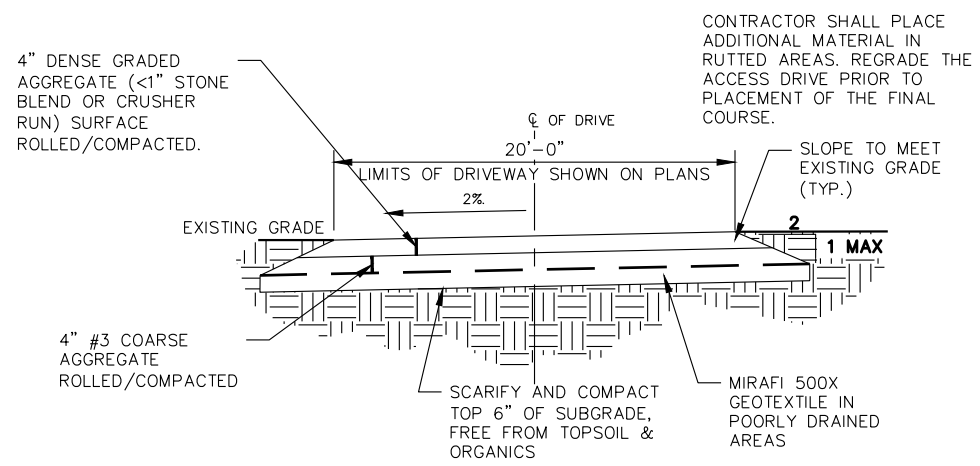
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2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

TITLE: ICE-BRIDGE DETAILS

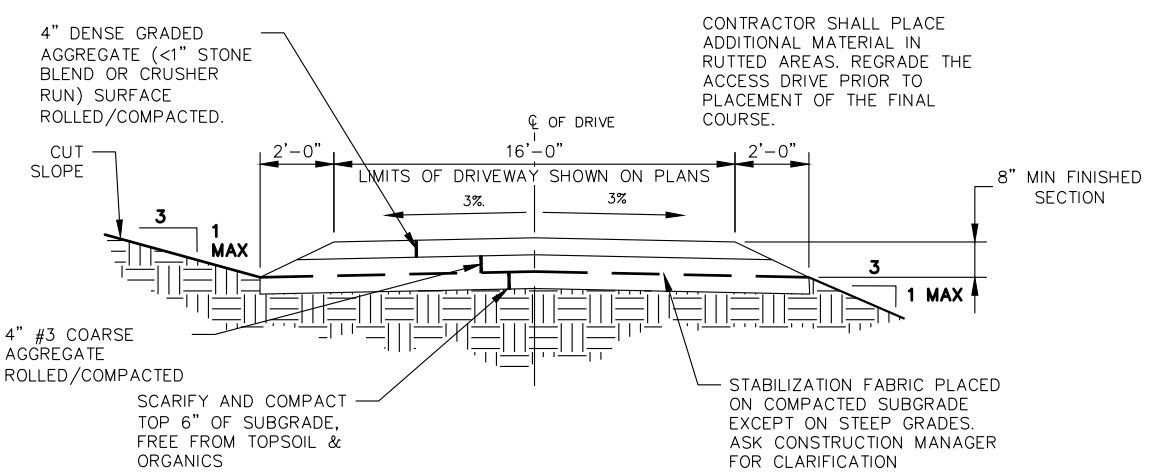
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DRIVEWAY SECTION - FLATLAND
NTS



DRIVEWAY SECTION - SLOPED
NTS

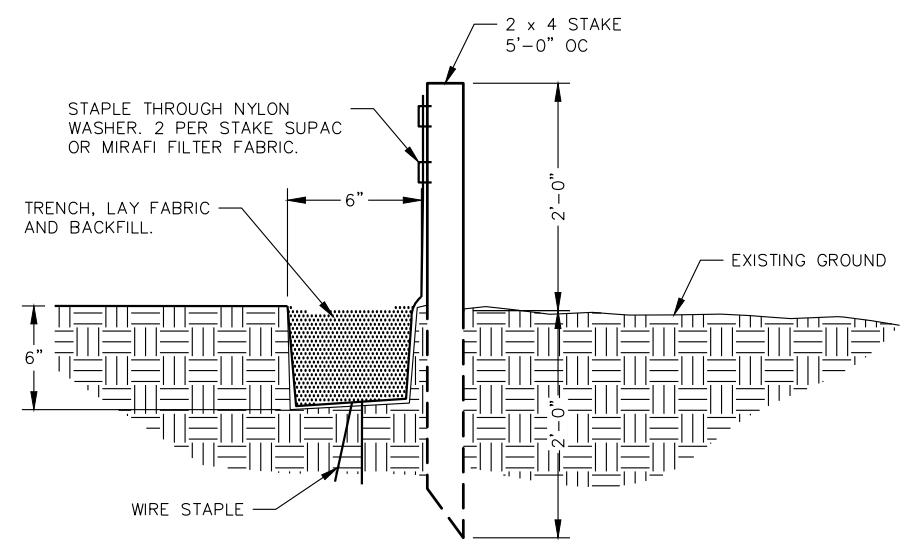


DRIVEWAY SECTION - CROWNED OR CROSS SLOPED
NTS

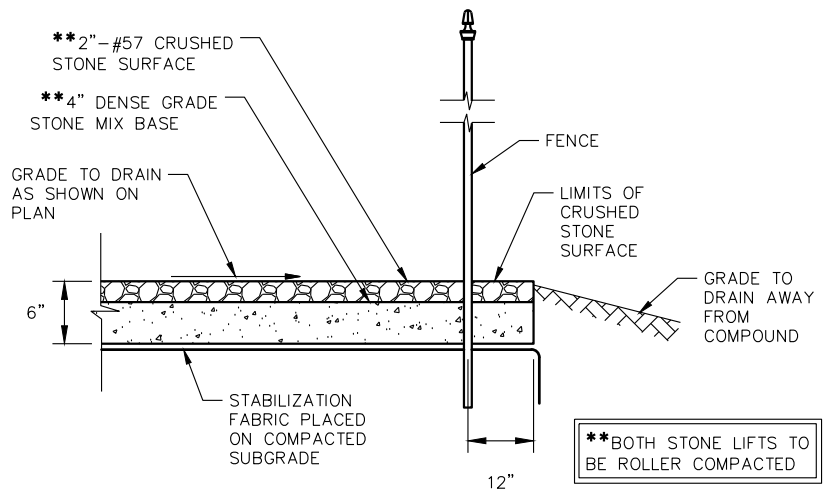
GENERAL DRIVEWAY NOTES:

DENSE GRADED AGGREGATE SHALL BE COMPACTED TO A MIN OF 84% SOLID. MINIMUM DRY DENSITY FOR COMPACTED LIMESTONE DGA SHALL BE 139 PCF WHEN S.G. OF LIMESTONE IS 2.65

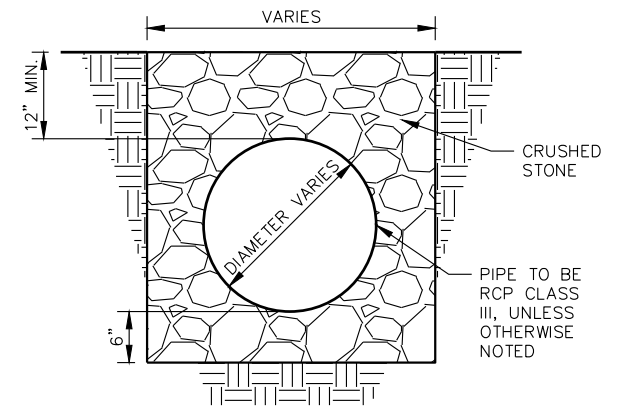
DRIVEWAY MUST SUPPORT EMERGENCY VEHICLE REQUIREMENTS OF 75,000 LBS. FINAL DRIVE MUST PASS A PROOF ROLL TEST WITH CITY INSPECTION. CONTRACTOR TO COORDINATE.



SILT FENCE DETAIL
NTS



SITE AREA SURFACING
NTS



CULVERT CROSS SECTION & CRUSHED STONE ENCASEMENT DETAIL
NTS

NOTES:

- ENCASEMENT USED WITH 18" OF COVER OR LESS

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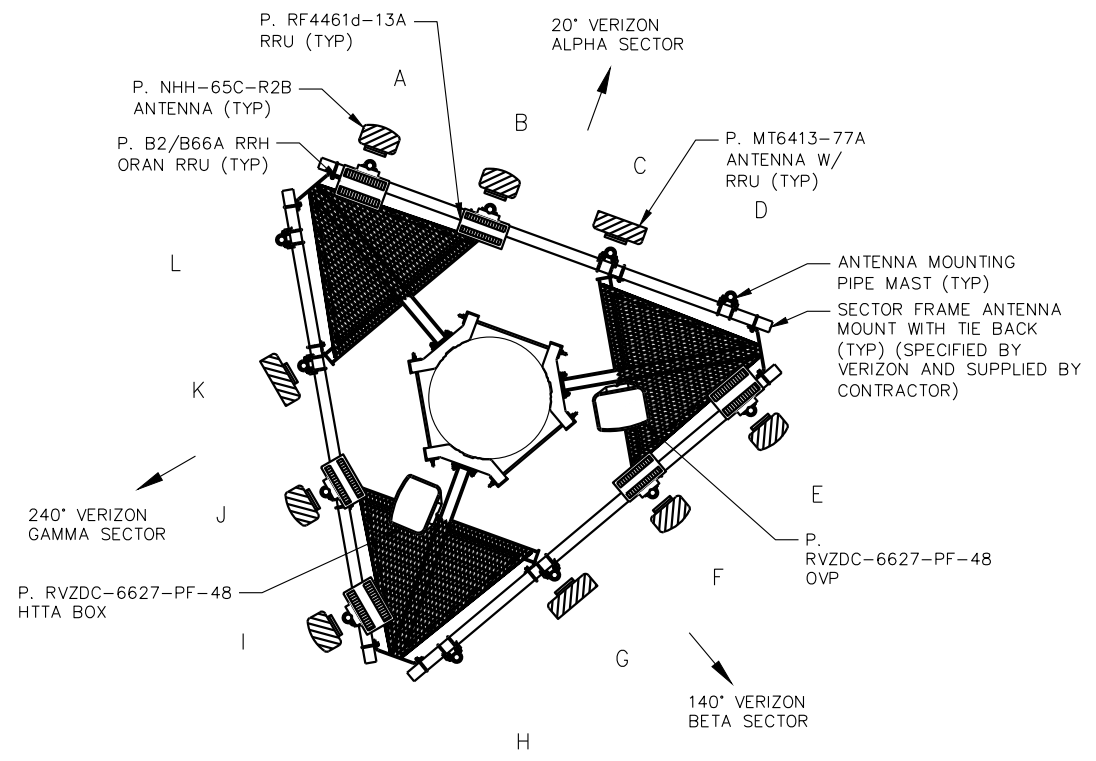
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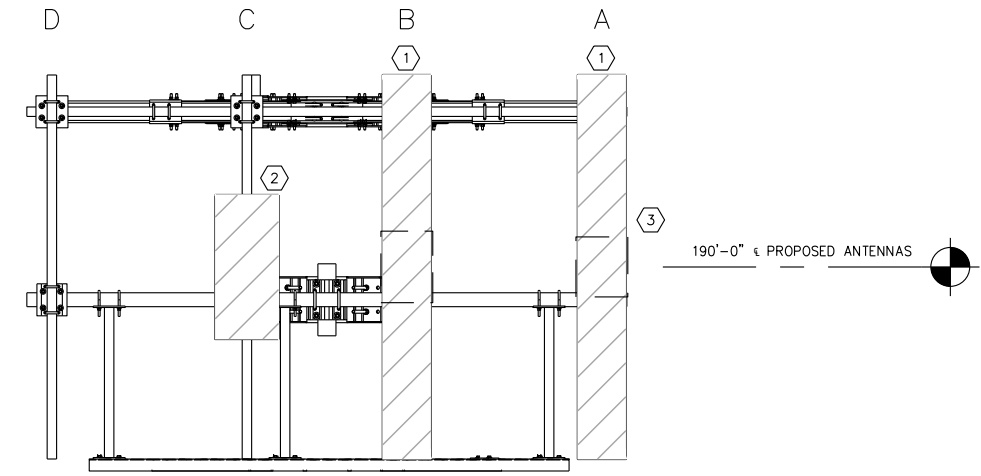
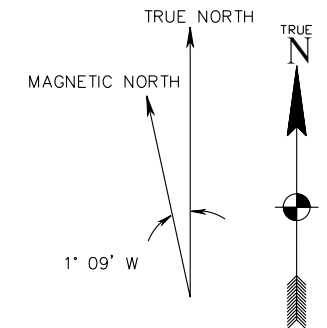
SHEET: C-9
WINNMS RAWLAND 08-12-2022

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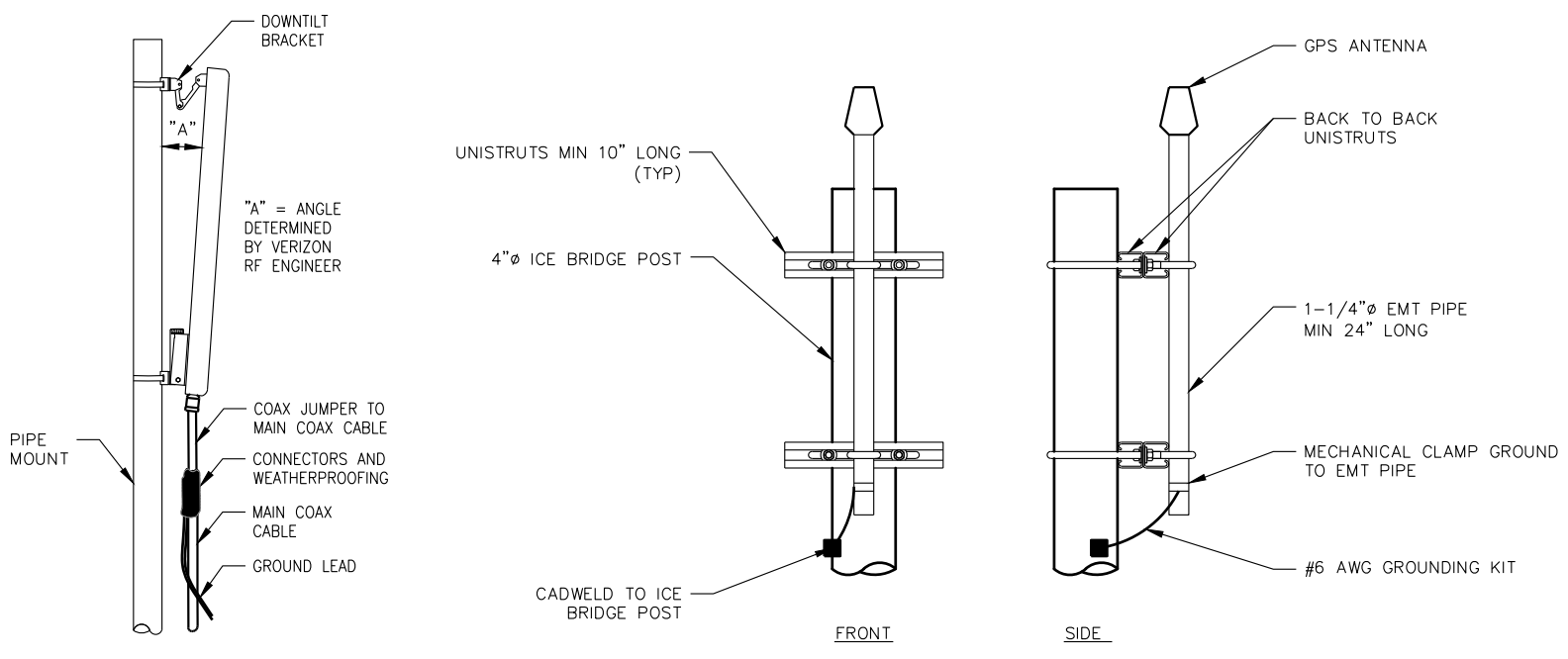
NOTE:
 CONTRACTOR SHALL CONTACT
 VERIZON RF ENGINEER FOR ALL
 ANTENNA INFORMATION.
 ANTENNAS AND AZIMUTHS SHOWN
 FOR REFERENCE ONLY.



ANTENNA ORIENTATION
 NTS



PROPOSED EQUIP. ELEVATION
 SCALE: NTS



ANTENNA ASSEMBLY
 NTS

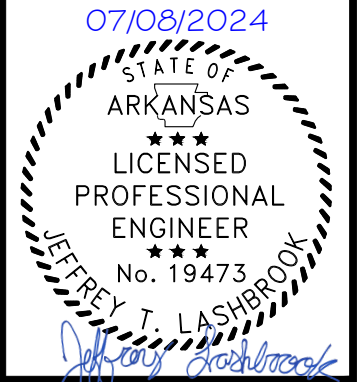
GPS MOUNT
 NTS

ANTENNA PLAN LEGEND						
SECTOR	ANTENNA POSITION	ANTENNA MODEL	EQUIPMENT MODEL	TECHNOLOGY	AZIMUTH	ANTENNA RAD CENTER
ALPHA	A	NHH-65C-R2B (1)	B2/B66A RRH ORAN (3)	LTE700/850/AWS	20°	190'
ALPHA	B	NHH-65C-R2B (1)	RF4461d-13A (4)	LTE700/850/AWS3	20°	190'
ALPHA	C	MT6413-77A (2)	-	5G L-SUB6	20°	190'
ALPHA	D	-	-	-	20°	190'
BETA	E	NHH-65C-R2B (1)	B2/B66A RRH ORAN (3)	LTE700/850/AWS	140°	190'
BETA	F	NHH-65C-R2B (1)	RF4461d-13A (4)	LTE700/850/AWS3	140°	190'
BETA	G	MT6413-77A (2)	-	5G L-SUB6	140°	190'
BETA	H	-	-	-	140°	190'
GAMMA	I	NHH-65C-R2B (1)	B2/B66A RRH ORAN (3)	LTE700/850/AWS	240°	190'
GAMMA	J	NHH-65C-R2B (1)	RF4461d-13A (4)	LTE700/850/AWS3	240°	190'
GAMMA	K	MT6413-77A (2)	-	5G L-SUB6	240°	190'
GAMMA	L	-	-	-	240°	190'
-	-	RVZDC-6627-PF-48	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

NOTE: ANTENNA INSTALLER SHALL UTILIZE VERIZON WIRELESS RFDS FOR FINAL CONFIGURATION. SEE VERIZON WIRELESS CONSTRUCTION MANAGER.
 (X) SEE PROPOSED EQUIP. MOUNTING CONFIG. THIS SHEET FOR CORRESPONDING ELEVATION VIEW.

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 300 W. ORANGE SPRINGS DRIVE
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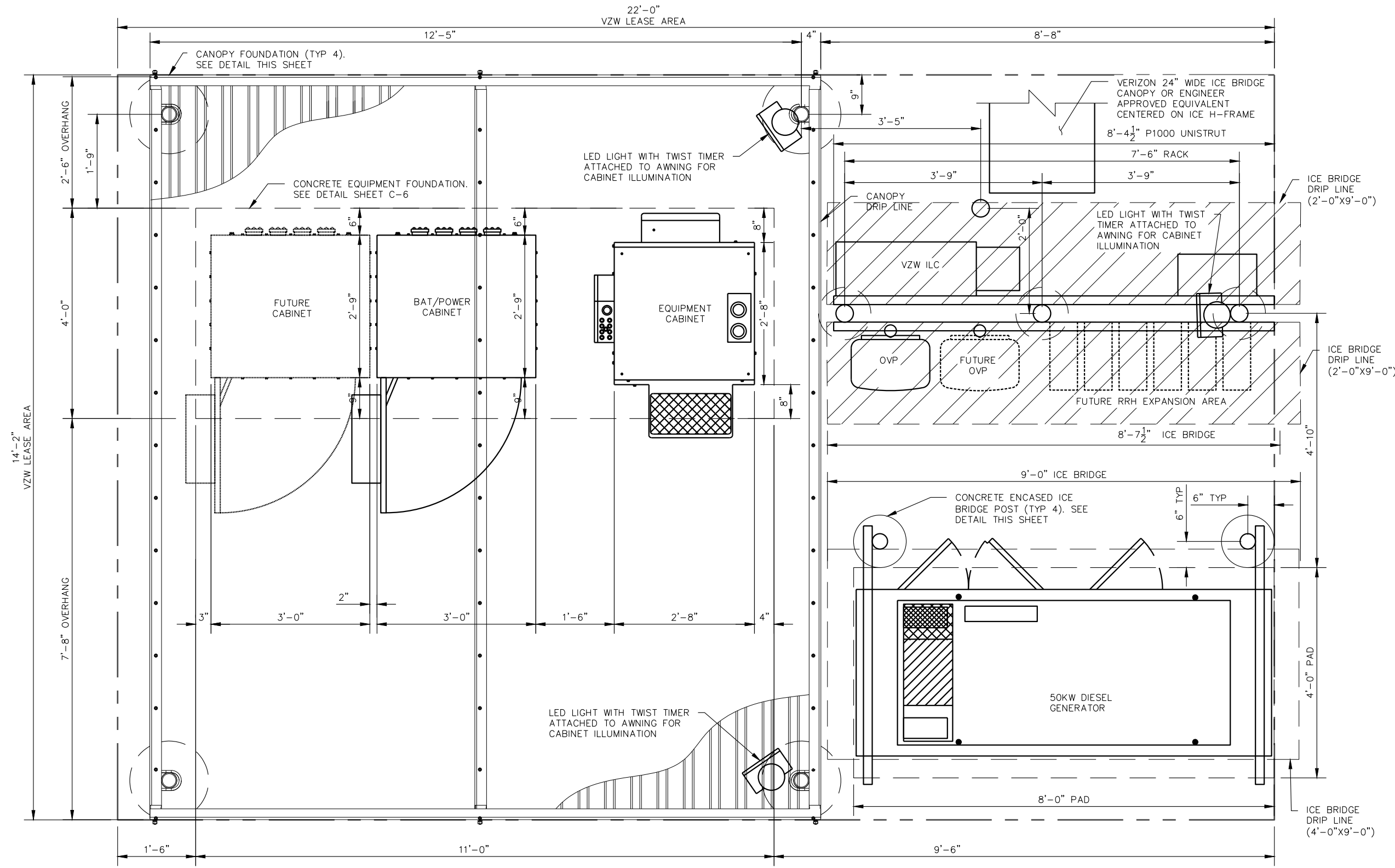
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2	JTL	CONSTRUCTION ISSUE	07/08/24			

TITLE: ANTENNA AND COAX DETAILS

SHEET: C-10

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PLAN VIEW-GROUND

NTS
NOTE: CABINETS AND GENERATOR SHOWN ON THIS SHEET ARE FOR PICTORIAL PURPOSES ONLY. ACTUAL DIMENSIONS AND SPECIFICATIONS WILL BE PROVIDED BY VZW ENGINEER

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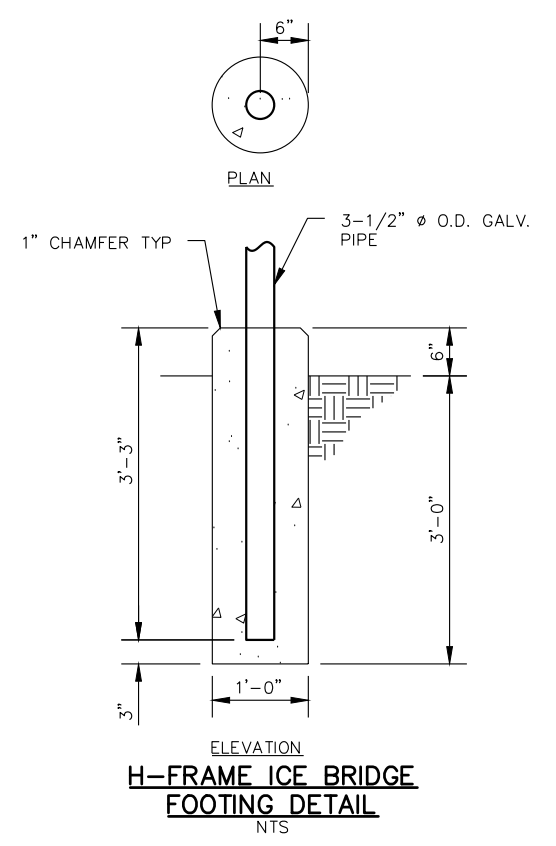
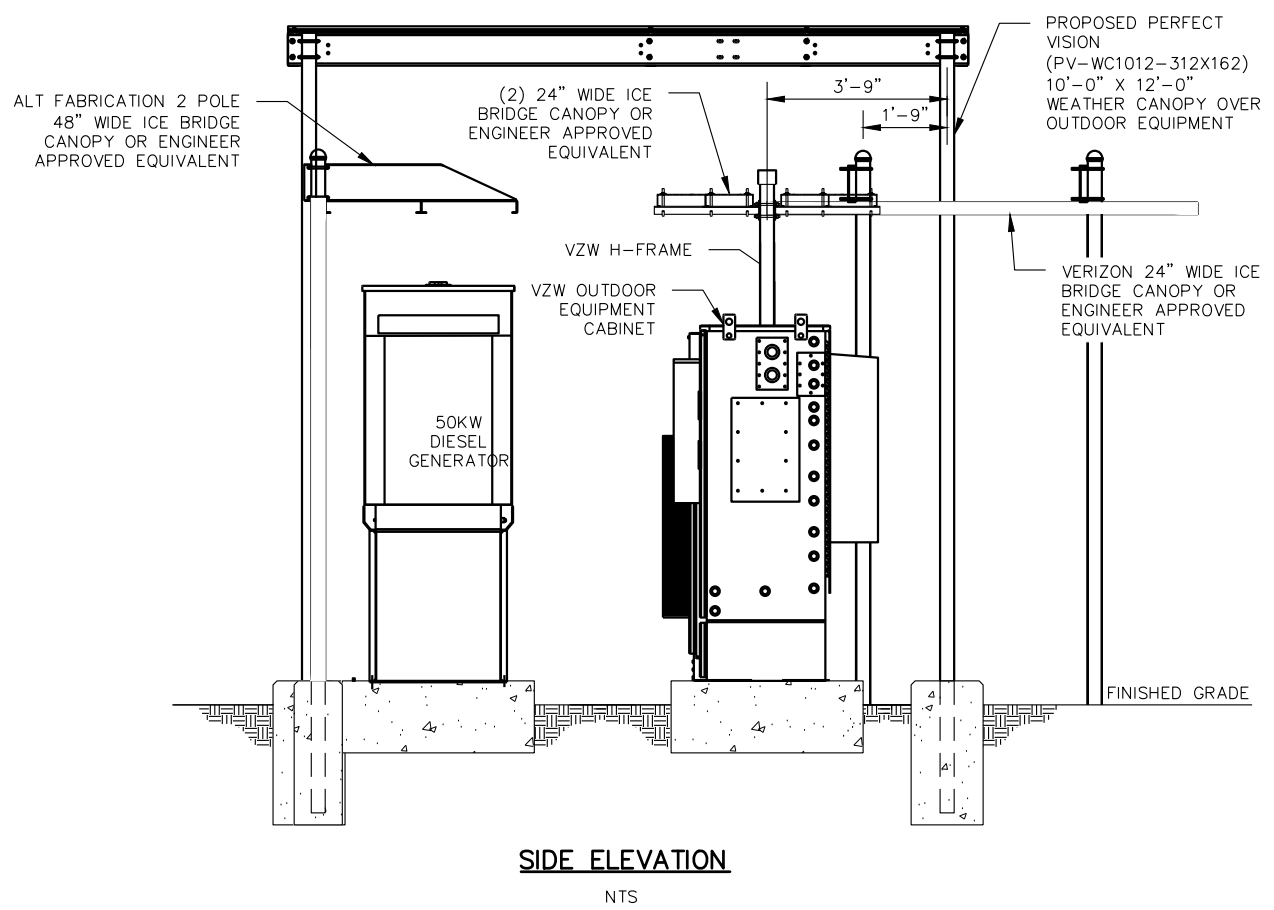
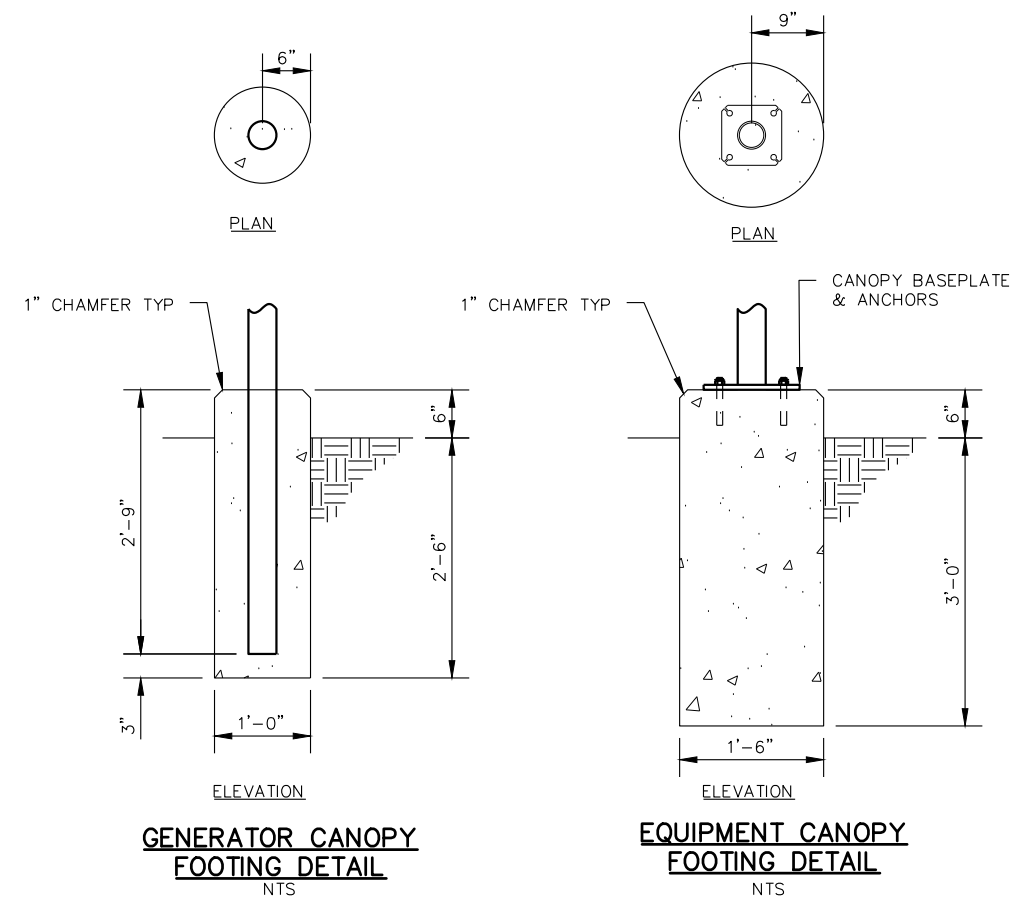
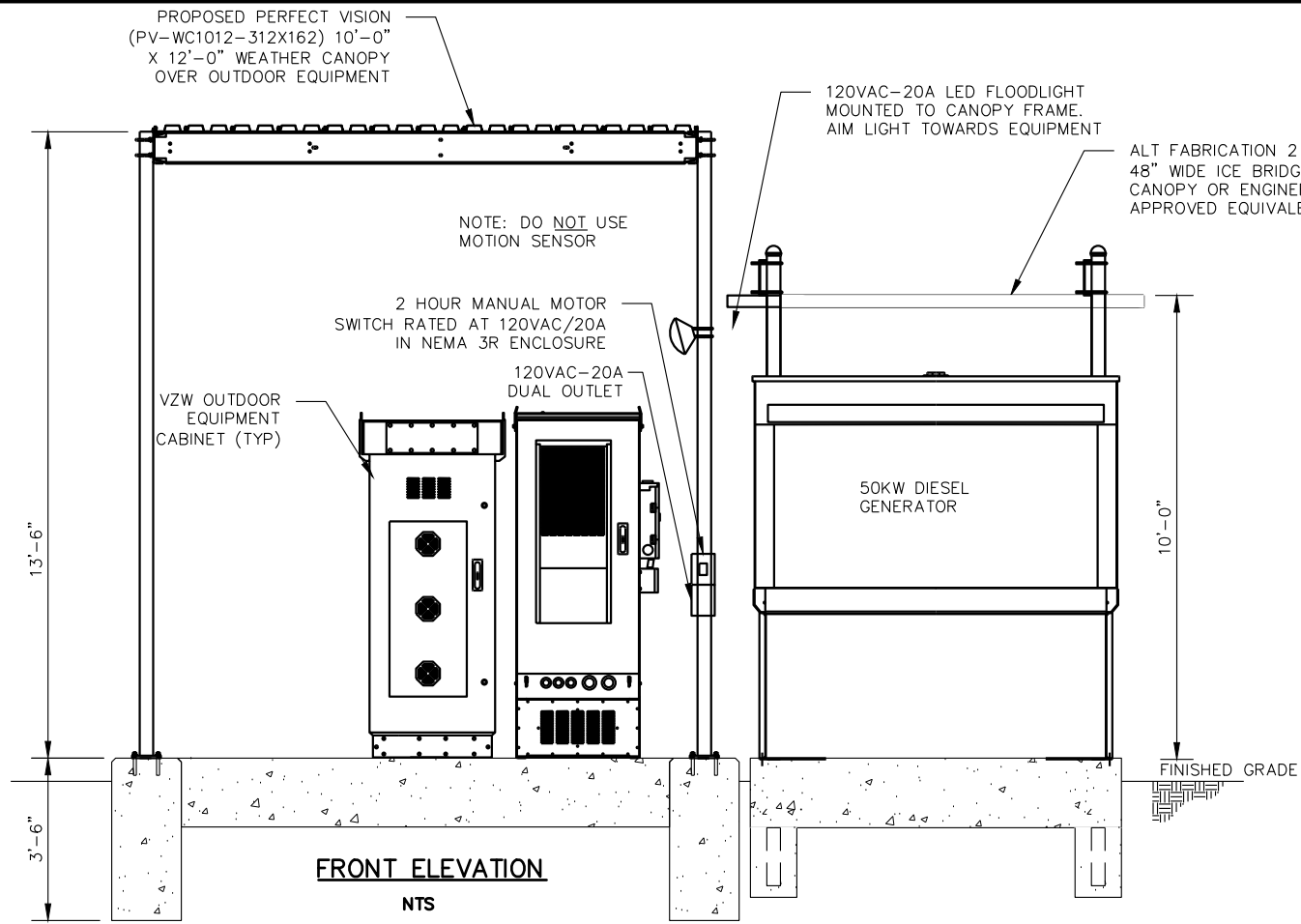
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NO.	BY	DESCRIPTION	DATE	CHK
0	JTL	CONSTRUCTION ISSUE	05/20/24	JTL
1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

TITLE: EQUIPMENT DETAILS

SHEET: C-11

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PLANNERS & DESIGNERS
3001 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427

07/08/2024

STATE OF ARKANSAS

LICENSED PROFESSIONAL ENGINEER

No. 19473

JEFFREY T. LASHBROOK

SITE NAME: HENRI DE TONTI AR

SITE NUMBER: US-AR-5209

SITE ADDRESS: 1855 W HENRI DE TONTI BLVD
SPRINGDALE, AR, 72762

AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
1849 W HENRI DE TONTI BLVD
TONTITOWN, AR 72704

TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200

SOURCE OF TITLE: DEED BOOK - PAGE -

LATITUDE: 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

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TITLE: EQUIPMENT DETAILS

SHEET: C-11A

WINNMS RAWLAND 08-12-2022

GENERAL NOTES:

- CONSTRUCTION SAFETY BANNER SHALL BE PLACED SO THAT IT IS VISIBLE TO ALL THAT ENTER THE CONSTRUCTION AREA.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION.
- DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT LOCATIONS WITH CONSTRUCTION MANAGER.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, MECHANICAL AND ELECTRICAL INSTALLATIONS AND SHALL ADJUST BID ACCORDINGLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS (ALSO KNOWN AS CONSTRUCTION PLANS) CAN BE ACCOMPLISHED AS SHOWN BEFORE PROCEEDING. CONTRACTOR SHALL VISIT JOB SITE TO REVIEW SCOPE OF WORK AND EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL SERVICE, ELECTRICAL SERVICE AND OVERALL COORDINATION.
- NOTIFY CONSTRUCTION MANAGER OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND/OR DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL TELEPHONE/RADIO EQUIPMENT LAYOUT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK AND CLEARANCE REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.
- ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS. AS A MINIMUM STANDARD, CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. GENERAL CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED PER N.E.C. AND IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUB-CONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION, ALONG WITH 2012 UPC, UMC AND THE 2011 NEC. CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION.
- SEAL ALL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED OR F.M. APPROVED MATERIALS. DETAILS AND SCHEMATICS PROPOSE TO SHOW END RESULT OF THE DESIGN.
- MINOR MODIFICATIONS MAY BE NECESSARY TO SUIT JOB CONDITIONS AND DIMENSIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH OWNERS REPRESENTATIVE.
- DIMENSIONS ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED.
- CLEANUP AND SAFETY: KEEP PROJECT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND EQUIPMENT THAT IS NOT SPECIFIED TO REMAIN THE PROPERTY OF THE OWNER, ETC. LEAVE PREMISES IN A VACUUM AND BROOM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEMS EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY PROJECT MANAGER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRASH RECEPTACLE AND A PORTABLE TOILET AT THE SITE FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR PICKING TRASH DAILY AND REMOVING ITS ACCUMULATION FROM THE CONSTRUCTION SITE. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A TRASH BIN TO BE ON SITE FROM THE START OF CONSTRUCTION UNTIL RELEASED BY PROJECT MANAGER.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR CLEANING AND WAXING SHELTER FLOORS AFTER ALL EQUIPMENT HAS BEEN INSTALLED.
- THE VERIZON SHELTER SHALL NOT BE USED FOR STORAGE OF TOOLS, EQUIPMENT, ETC., BY ANY GENERAL CONTRACTORS OR SUB-CONTRACTORS.

CONSTRUCTION NOTES:

- CONFIRM SURVEY STAKES AND SET ELEVATIONS PRIOR TO ANY CONSTRUCTION.
- THE COMPLETE ROAD AND SITE AREA WILL BE GRUBBED PRIOR TO FOUNDATION CONSTRUCTION OR PLACEMENT OF BACKFILL OR SUB-BASE MATERIAL.
- PRIOR TO OTHER EXCAVATION AND CONSTRUCTION EFFORTS GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW ORIGINAL GROUND LEVEL.
- UNLESS OTHERWISE INSTRUCTED BY PROJECT MANAGER TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
- CONSTRUCT TEMPORARY CONSTRUCTION ZONE ACCESS DRIVE.
- THE SITE AREA WILL BE BROUGHT TO SUB-BASE COURSE ELEVATION AND THE ACCESS ROAD TO BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATION.
- APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS. SOIL STERILIZER SHALL BE EPA REGISTERED OF LIQUID COMPOSITION AND OF PRE EMERGENCE DESIGN AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

SOIL STERILIZERS:
 TOTAL KILL PRODUCT 910 - EPA 10292-7 AMBUSH HERBICIDE - EPA REGISTERED
 PHASAR CORPORATION FRAMAR INDUSTRIAL PRODUCTS
 P. O. BOX 5123 1435 MORRIS AVENUE
 DEARBORN, MI 48128 TEL (313) 563-8000 UNION, NJ 07083 TEL (800) 526-4924
- GRADE, SEED, FERTILIZE AND MULCH DISTURBED AREAS IMMEDIATELY AFTER BRINGING SITE AND ACCESS ROAD TO BASE COURSE ELEVATION, WATER TO INSURE GROWTH.
- REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY PROJECT MANAGER.
- AFTER COMPLETION OF CONSTRUCTION BUT PRIOR TO THE FINAL PUNCH LIST INSPECTION, APPLY THREE (3) INCHES OF 3/4 INCH CRUSHED AND WASHED STONE (OR MATCH EXISTING ON CO-LOCATED SITES) TO ALL GRAVELED AREAS. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO THE STONE SURFACES. SOIL STERILIZATION APPLICATION SHALL GUARANTEE VEGETATION FREE ROAD AND SITE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
- DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
- ROAD AND SITE MATERIALS AND CONSTRUCTION PRACTICES SHALL CONFORM TO STATE TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
- THE CONTRACTOR SHALL REPAIR ALL AREAS DAMAGED DURING CONSTRUCTION, BACK AS CLOSE TO ORIGINAL AS POSSIBLE.
- IF UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND WHERE POSSIBLE STABILIZED WITH MIRAFI-600X FABRIC OR EQUIVALENT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
- ELEVATIONS FOR SITE AND ACCESS ROAD ARE TO BE CALCULATED FROM FINISHED GRADES OR SLOPES INDICATED.
- THE ACCESS ROAD SHALL BE BROUGHT TO BASE COURSE ELEVATION PRIOR TO FOUNDATION CONSTRUCTION TO PERMIT USE, COMPACTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE.
- AVOID CREATING DEPRESSIONS WHERE WATER MAY POND.
- THE CONTRACT SHALL BE ASSUMED TO INCLUDE GRADING, BANKING, DITCHING AND UNLESS OTHERWISE INDICATED, COVERING TWO INCHES OF SURFACE COURSE. ALL ROADS OR ROUTES UTILIZED FOR ACCESS TO THE SITE COMMENCING AT THE POINT OF INTERSECTION WITH THE NEAREST PUBLIC THOROUGHFARE.
- WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE EXISTING ROAD TO REMOVE ANY ORGANIC MATTER AND SMOOTH THE SURFACE BEFORE PLACING FILL OR STONE.
- PLACE FILL OR STONE IN SIX INCH MAXIMUM LIFT AND COMPACT BEFORE PLACING NEXT LIFT.
- THE FINISH GRADE, INCLUDING TOP SURFACE COURSE, SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
- RIP-RAP SHALL BE APPLIED TO THE SIDES OF DITCHES OR DRAINAGE SWALES. RIP-RAP ENTIRE DITCH FOR SIX FEET IN ALL DIRECTIONS AT CULVERT OPENINGS UNLESS ENDWALLS SPECIFIED. SOD OR SEED FERTILIZER AND STRAW COVER SHALL BE APPLIED TO ALL OTHER DISTURBED AREAS, DITCHES AND DRAINAGE SWALES NOT OTHERWISE RIP-RAPPED.



SITE NAME: HENRI DE TONTI AR
 SITE NUMBER: US-AR-5209
 SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
 AREA: LEASE AREA = 5625 SF
 PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
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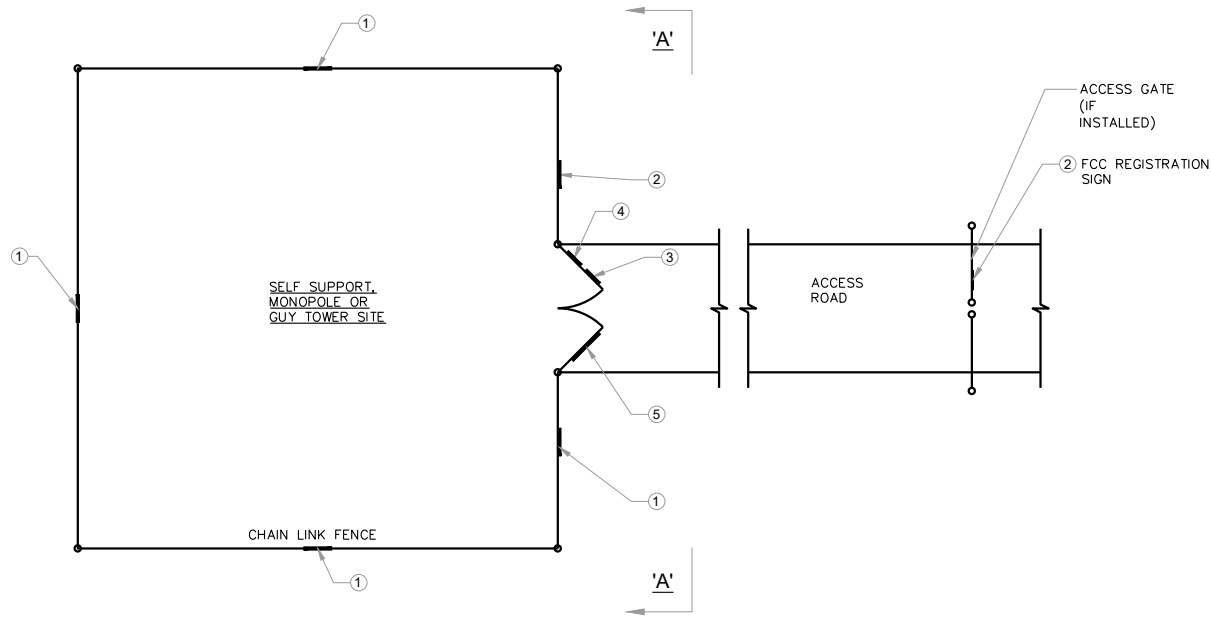
TITLE: CONSTRUCTION NOTES

SHEET: C-12

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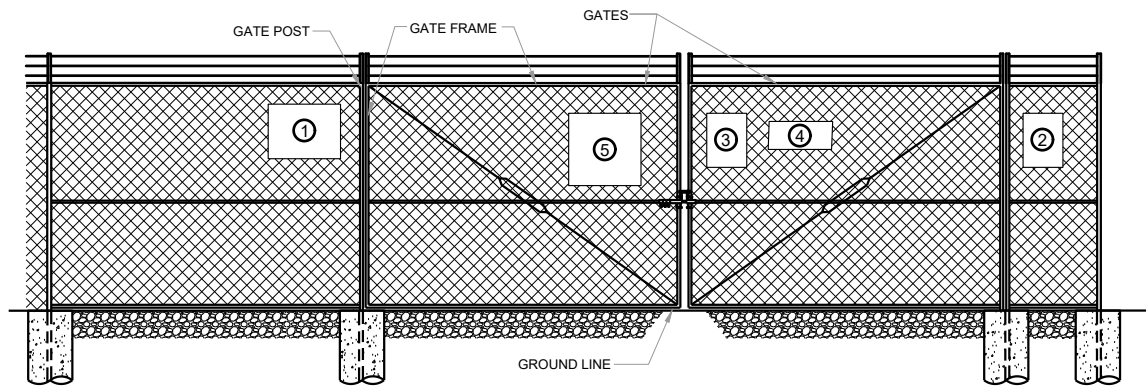
NOTES:

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONELL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATON POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

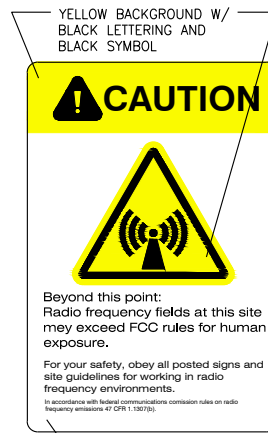
SCALE: N. T. S.

FIRELANE SIGNAGE TO BE COORDINATED WITH FIRE MARSHALL



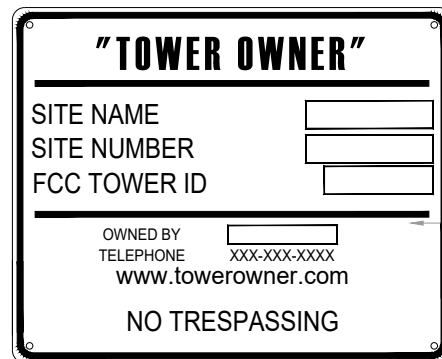
NO TRESPASSING SIGN 1

14" WIDE x 10" HIGH



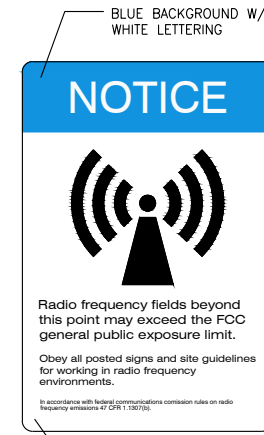
RF GUIDELINES SIGN 3

8" WIDE x 12" HIGH



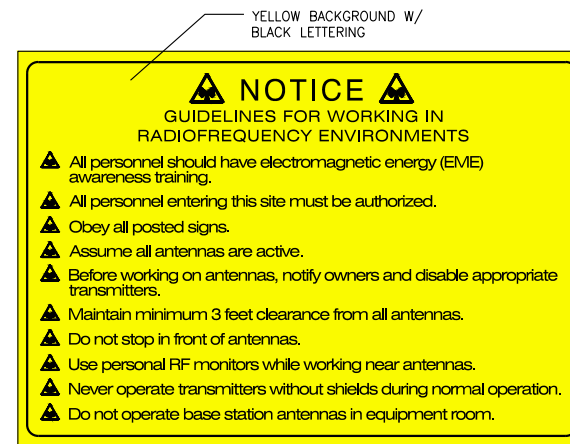
SITE ID SIGN 5

24" WIDE x 18" HIGH



RF GUIDELINES SIGN 2

8" WIDE x 12" HIGH



RF GUIDELINES SIGN 4

12" WIDE x 8" HIGH



- WHEN REQUIRED, PLACE ON TOWER
- USE A DECAL ON MONOPOLE AND METAL SIGN ON SELF-SUPPORT OR GUYED TOWER
- LETTERS TO BE 3" MIN.

ASR # SIGN 6

24" WIDE x 18" HIGH

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07/08/2024

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TITLE: FENCE SIGNAGE

SHEET: C-13

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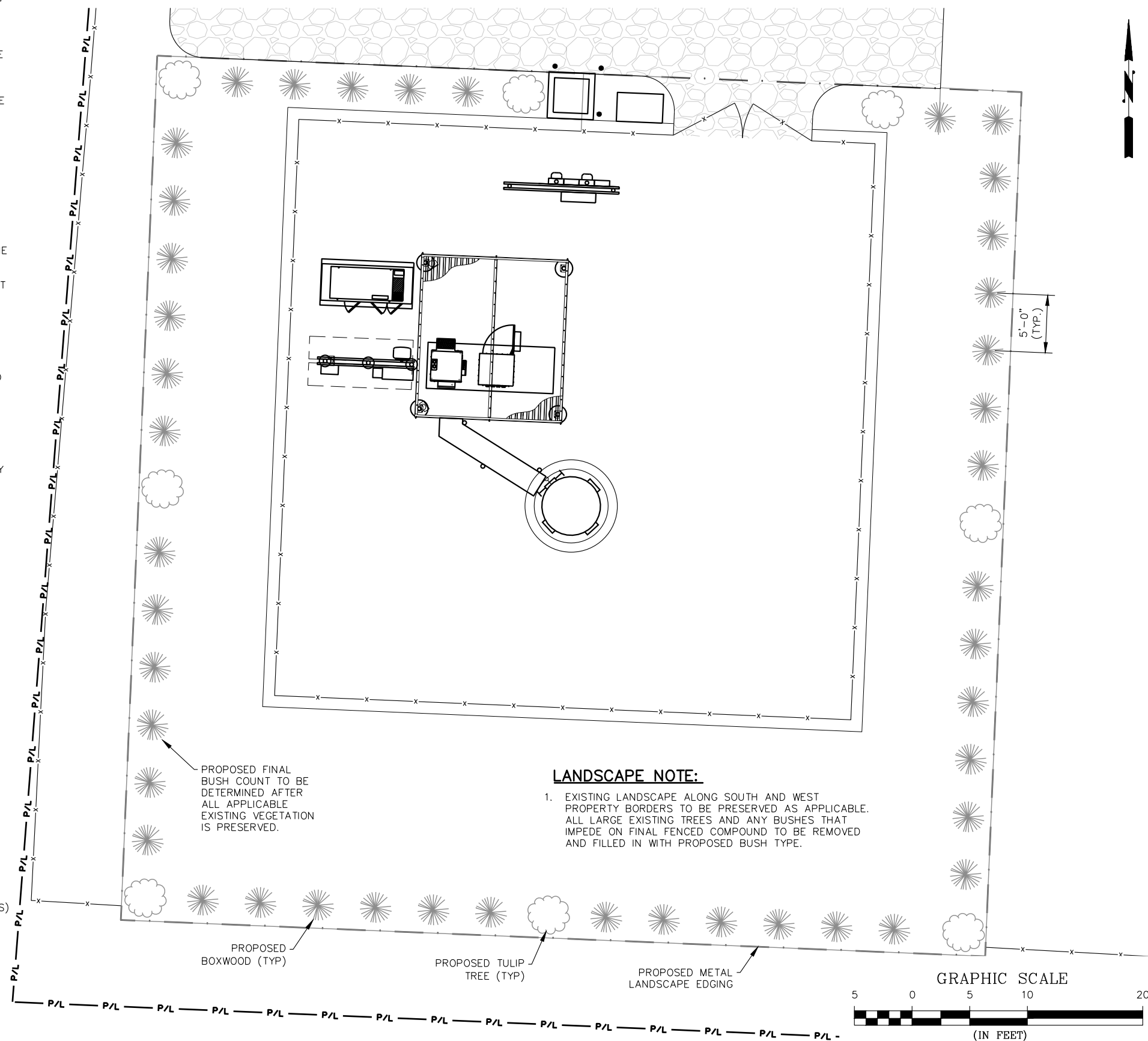
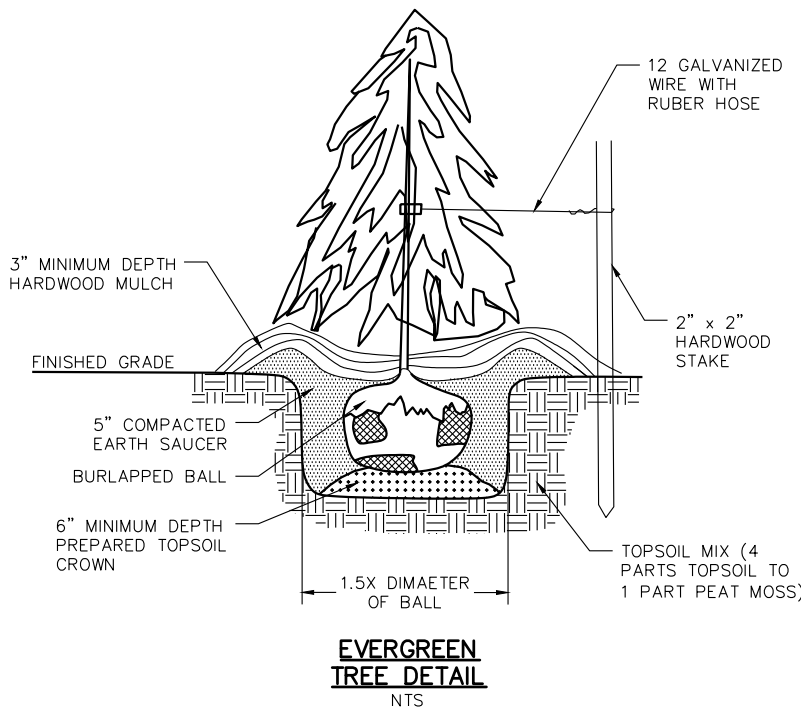
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GENERAL NOTES: LANDSCAPE

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS AND LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE.
1. WATERING TO BE COMPLETED BY PORTABLE WATER TANKS
- THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE THREE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF THREE (3) YEARS BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO THE ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
- ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING.
- PRESERVE EXISTING TREE MASSES WHERE APPLICABLE.
- IF WORK IS REQUIRED WITHIN THE EASEMENTS CAUSING REMOVAL OR DAMAGE OF LANDSCAPE MATERIALS, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF MATERIALS ACCORDINGLY.
- CLEARING, GRADING AND/OR REMOVAL OF TREES IN APPROVED TPAS (TREE PRESERVATION AREAS) MAY ONLY OCCUR AS PART OF INDIVIDUAL LOT DEVELOPMENT. REVISIONS TO TPAS MAY BE APPROVED BY STAFF AS PART OF THE CONSTRUCTION PLAN APPROVAL PROCESS.
- TPAS IDENTIFIED ON THIS PLAN REPRESENT PORTIONS OF THE SITE THE DEVELOPER HAS DESIGNATED TO BE LEFT UNDISTURBED DURING THE DEVELOPMENT OF ROADWAYS, UTILITIES AND SIMILAR INFRASTRUCTURES. THESE ARE NOT PERMANENT PRESERVATION AREAS. TREES IN THESE AREAS MAY BE REMOVED DURING CONSTRUCTION OF HOMES OR BUILDINGS ON THIS SITE.
- DIMENSION LINES HAVE BEEN USED ON THIS PLAN TO ESTABLISH THE GENERAL LOCATION OF TPAS AND REPRESENT MINIMUM DISTANCES. THE FINAL BOUNDARY FOR EACH TPA SHALL BE ESTABLISHED IN THE FIELD TO INCLUDE CANOPY AREA OF ALL TREES AT OR WITHIN THE DIMENSION LINE.
- TREE PROTECTION FENCING SHALL BE ERECTED ADJACENT TO ALL TPAS PRIOR TO SITE DISTURBANCE APPROVAL (PREVIOUSLY KNOWN AS CLEARING AND GRADING) TO PROTECT THE EXISTING TREE STANDS AND THEIR ROOT SYSTEMS. ALL TREE PROTECTION FENCING, INCLUDING SILT FENCING WHICH MAY BE USED AS TREE PROTECTION FENCING, SHALL BE LOCATED AT LEAST 3 FEET FROM THE OUTSIDE EDGE OF THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED. WHEN TREES MUST BE REMOVED IN A TPA, THE FENCE SHALL BE RELOCATED TO PROTECT ALL REMAINING TREES WITHIN THAT TPA. WHEN A TREE MASS CONTAINS BOTH WPAS AND TPAS, FENCING SHALL ONLY BE REQUIRED AT THE OUTERMOST PERIMETER OF THAT TREE MASS.
- NO PARKING, MATERIAL STORAGE, OR CONSTRUCTION ACTIVITIES ARE PERMITTED WITHIN THE TPAS BEYOND THAT ALLOWED FOR PRELIMINARY SITE DEVELOPMENT.
- MULCH TO BE PLACED UNDER ALL PROPOSED LANDSCAPING BY CONTRACTOR.

PLANT LIST

QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS
(43)	BOX WOOD	BUXUS SP	30" HEIGHT 1.5" DIAMETER **±5 O.C.
(8)	TULIP TREE	LIRIODENDRON TULIPIFERA	15'-0" HEIGHT 3" DIAMETER **±10' O.C.



LANDSCAPE NOTE:

- EXISTING LANDSCAPE ALONG SOUTH AND WEST PROPERTY BORDERS TO BE PRESERVED AS APPLICABLE. ALL LARGE EXISTING TREES AND ANY BUSHES THAT IMPEDE ON FINAL FENCED COMPOUND TO BE REMOVED AND FILLED IN WITH PROPOSED BUSH TYPE.

750 PARK OF COMMERCE DRIVE
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07/08/2024

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19473
JEFFREY T. LASHBROOK

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TITLE: LANDSCAPE PLAN

SHEET: L-1

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CODED DRAWING NOTES:

- ① VERIZON TELCO JUNCTION BOX (30"x30"x10") LOCATED ON BACK OF UTILITY H-FRAME (ONLY NEEDED IF AT&T IS SERVICE PROVIDER)
- ② PROPOSED UNDERGROUND TELEPHONE SERVICE. (2) 2" SCH 80 PVC CONDUITS FROM HANDHOLE TO EQUIPMENT. (±21').(ADD THIRD CONDUIT BETWEEN HOFFMAN AND EQUIPMENT FOR SITES SERVED BY AT&T)
- ③ 3" SCHEDULE 80 PVC CONDUIT WITH (3) #3/0 PLUS #4 GROUND (±27'). (POWER)
- ④ PROPOSED VERIZON ELECTRIC METER AND 200 AMP CIRCUIT BREAKER TYPE (ONLY) DISCONNECT BY THIS CONTRACT. METER BY UTILITY PROVIDER.
- ⑤ COORDINATE EXACT LOCATION OF CONDUIT IN FIELD.
- ⑥ PROPOSED 195' MONOPOLE TOWER.
- ⑦ TELEPHONE CONDUIT STUB-UP.
- ⑧ POWER CONDUIT STUB-UP.
- ⑨ PROPOSED 30"x48"x24" DEEP TELCO HANDHOLE
- ⑩ PROPOSED UNDERGROUND ELECTRIC SERVICE TO H-FRAME FROM PROPOSED TRANSFORMER. ACTUAL SERVICE LOCATION AND SOURCE TO BE COORDINATED WITH ELECTRIC COMPANY. CONTRACTOR TO SUPPLY MIN OF (2) 3" PRIMARY SERVICE CONDUIT WITH PULL STRINGS (±6'). CONFIRM CONDUIT SIZE AND QUANTITY WITH PROVIDER
- ⑪ INTEGRATED LOAD CENTER ON EQUIPMENT CABINET.
- ⑫ PROPOSED UNDERGROUND ELECTRIC SERVICE TO PROPOSED TRANSFORMER NEAR SITE FROM RIGHT OF WAY. ACTUAL SERVICE LOCATION AND SOURCE TO BE COORDINATED WITH ELECTRIC COMPANY. CONTRACTOR TO SUPPLY MIN OF (2) 3" PRIMARY SERVICE CONDUIT WITH PULL STRINGS (±800'). CONFIRM CONDUIT SIZE AND QUANTITY WITH PROVIDER
- ⑬ PROPOSED UNDERGROUND TELEPHONE SERVICE. (2) 2" SCH 80 PVC CONDUITS FROM RIGHT OF WAY TO VERIZON LEASE AREA. (±1430').
- ⑭ PROPOSED UNDERGROUND TELEPHONE SERVICE. (2) 2" SCH 80 PVC CONDUITS FROM HANDHOLE TO HOFFMAN BOX ON H-FRAME. (±10').
- ⑮ PROPOSED DIESEL GENERATOR SET AND CONCRETE PAD.
- ⑯ FIELD ROUTE CONDUITS AS REQUIRED FOR POWER AND CONTROL WIRING TO THE GENSET. STUB CONDUITS UP THROUGH THE CONCRETE PAD BENEATH ELECTRICAL STUB-UP AREA. SEE MANUFACTURER'S DRAWINGS (±5').
- ⑰ ENCASE CONDUITS IN TRENCH BENEATH ACCESS DRIVE WITH MINIMUM 8" 3000 PSI CONCRETE AS REQUIRED

ELECTRICAL SYMBOLS

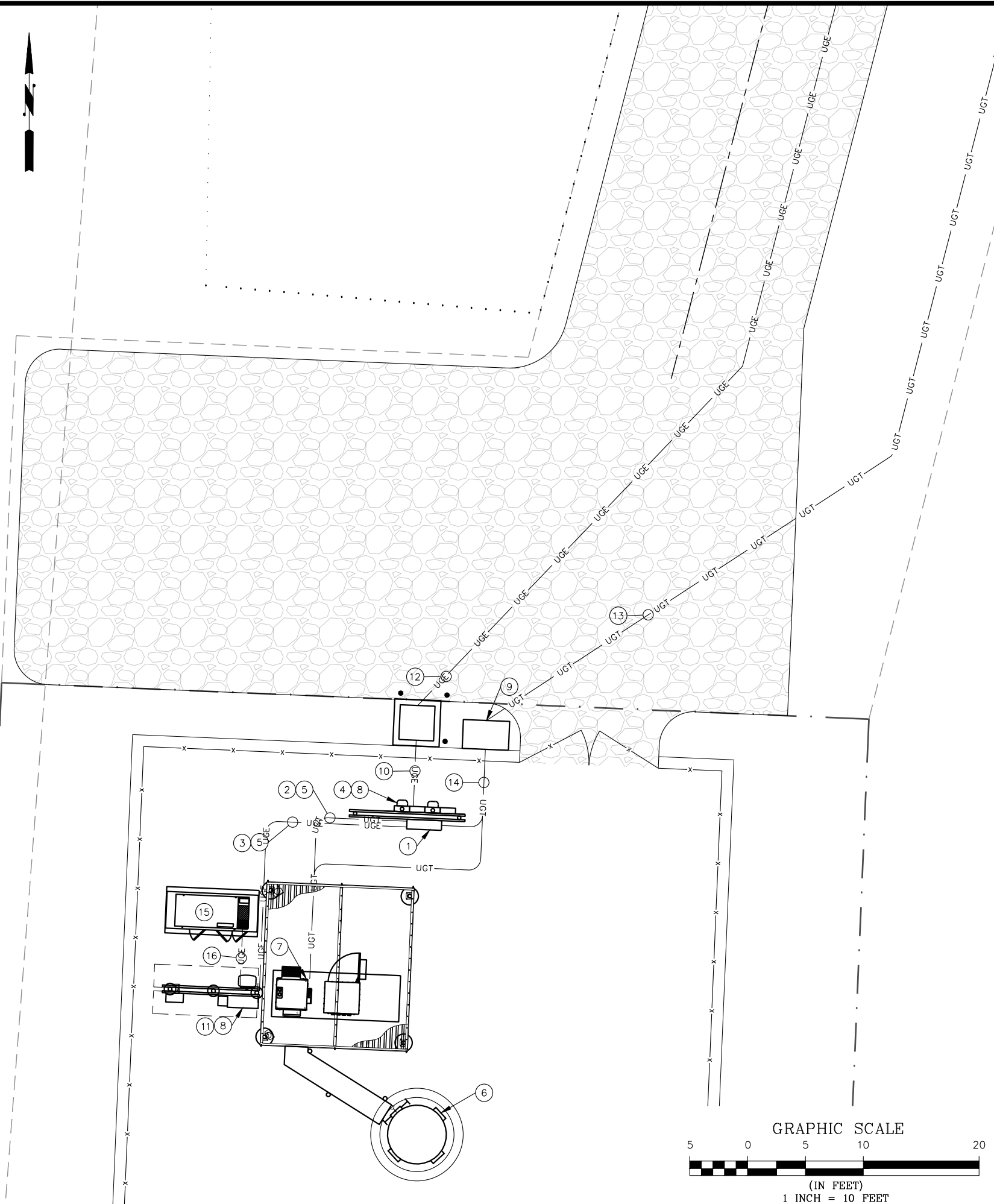
- ⊙ CHEMICAL GROUND ROD
- ⊠ PRIMARY BOND WITH INSPECTION PORT
- GROUND ROD
- CADWELD TYPE CONNECTION
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- ▬ MIGB/CIGBE - GROUND BAR
- ⏏ DISCONNECT SWITCH
- Ⓜ METER
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- Ⓜ ATS AUTOMATIC TRANSFER SWITCH
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- GROUNDING WIRE
- UGE UNDERGROUND ELECTRIC
- UGT UNDERGROUND TELEPHONE
- Ⓧ INDICATES CODED NUMBER

ABBREVIATIONS

- AWG AMERICAN WIRE GAUGE
- BCW BARE COPPER WIRE
- BTS BASE TRANSMISSION SYSTEM
- CIGBE COAX ISOLATED GROUND BAR EXTERNAL
- DIA DIAMETER
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- RGS RIGID GALVANIZED STEEL
- RWY RACEWAY
- SS STAINLESS STEEL
- TYP TYPICAL
- VZW VERIZON WIRELESS

GENERAL NOTES:

- 1. THIS SITE INCLUDES EXISTING UNDERGROUND ELECTRIC, COMMUNICATIONS, AND GROUNDING SERVICES IN THE VICINITY. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISRUPTION OF THESE EXISTING FACILITIES. CONTACT UTILITY PROVIDERS AND ALL OTHER APPROPRIATE AGENCIES PRIOR TO EXCAVATION AT THIS SITE. ALL EXCAVATION IN THE IMMEDIATE VICINITY OF EXISTING SERVICE SHALL BE PERFORMED BY HAND.
- 2. COORDINATE EXACT SOURCE AND INSTALLATION REQUIREMENTS WITH UTILITY COMPANIES. SEE SHEET TD-1.
- 3. FOR CONDUIT RUNS OVER 250 FEET USE 3" SCH 80 PVC WITH MINIMUM 1200 LB TEST "MULE TAPE" PULL STRAP. MAXIMUM 500' BETWEEN PULL BOXES. MAXIMUM (3) 90 DEGREE TURNS BETWEEN PULL BOXES. ADD PULL BOXES AS REQUIRED.
- 4. DIRECTIONAL BORING MAY BE INDICATED FOR FIBER RUNS OVER 250 FEET. CONFIRM WITH IMPM.



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07/08/2024
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19473
JEFFREY T. LASHBROOK

SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: N 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

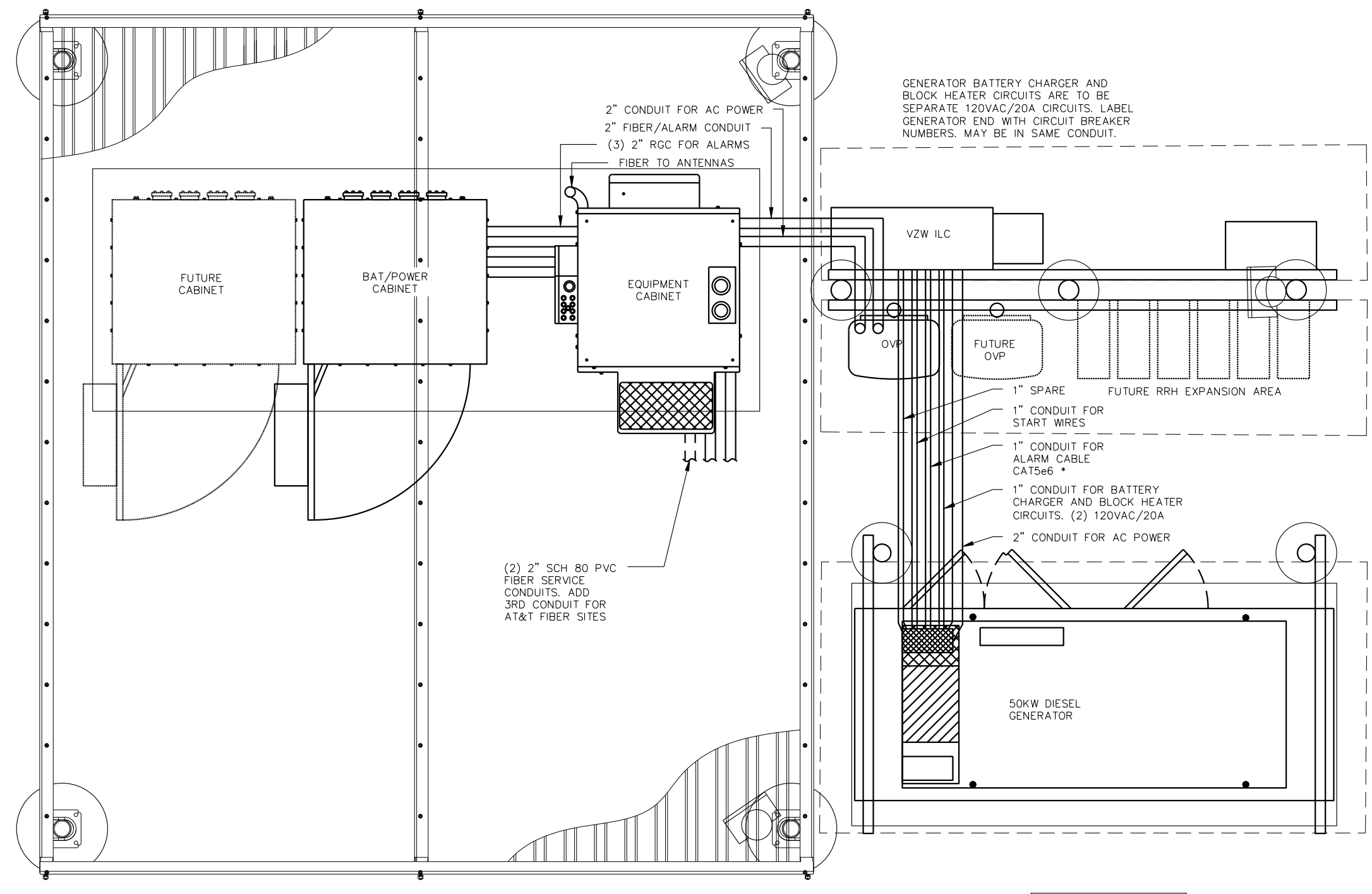
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TITLE: CONDUIT ROUTING PLAN
SHEET: E-1
WINNMS RAWLAND 08-12-2022

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CONFIRM UNDERGROUND CONDUITS TO GENERATOR WITH MANUFACTURER DRAWINGS



GENERATOR BATTERY CHARGER AND BLOCK HEATER CIRCUITS ARE TO BE SEPARATE 120VAC/20A CIRCUITS. LABEL GENERATOR END WITH CIRCUIT BREAKER NUMBERS. MAY BE IN SAME CONDUIT.

(2) 2" SCH 80 PVC FIBER SERVICE CONDUITS. ADD 3RD CONDUIT FOR AT&T FIBER SITES

*GENERATOR TO HAVE AN ACOUSTIC ENCLOSURE

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TITLE: CONDUIT ROUTING PLAN AT EQUIPMENT

SHEET: E-1A
WINNMS RAWLAND 08-12-2022

CODED DRAWING NOTES:

- ① #2 TINNED BARE COPPER SOLID WIRE BURIED EXTERIOR GROUND RING.
- ② ICE-BRIDGE. BOND TOP OF EACH ICE-BRIDGE POST TO GRIP STRUT AND JUMPER EACH SECTION. BOND BOTTOM OF EACH ICE-BRIDGE SUPPORT POST TO BURIED GROUND RING WITH CADWELD.
- ③ BOND NEUTRAL TERMINAL IN METERING DEVICE AND SERVICE DISCONNECT TO GROUND RING.
- ④ GALVANIZED BAR-NONE GROUND MOUNTED TO ICE BRIDGE POST.
- ⑤ GROUND LEAD TO H-FRAME POSTS (TYP)
- ⑥ BOND GROUND RING TO PROPOSED FENCE CORNER POST (TYP).
- ⑦ #2 AWG SOLID TINNED GROUND LEAD TO GATE POSTS (TYP 2).
- ⑧ #2 TINNED BARE COPPER SOLID WIRE FROM EQUIPMENT GROUND RING TO UTILITY H-FRAMES INSTALLED IN THE UTILITY CONDUIT TRENCH ALONG WITH GROUND RODS AT 10' ON CENTER. BOND TO RIGID CONDUIT STUBS AT UTILITY H-FRAMES.
- ⑨ BOTTOM BAR NONE GROUND ASSEMBLY, TOP AND INTERMEDIATE TOWER TINNED COAX ISOLATED GROUND BAR(S), EXTERNAL, BOLTED TO TOWER STEEL.
- ⑩ PROPOSED 195' MONOPOLE TOWER.
- ⑪ CONNECT EQUIPMENT GROUND RING TO TOWER GROUND RING (TYP 2). ADD TWO PRIMARY BONDS WITH INSPECTION PORTS AT TOWER GROUND RING TIE-INS WITH GREEN PAINTED CAPS.
- ⑫ INSTALL INSPECTION PORTS AT MAIN TOWER GROUND RING (TYP 2).
- ⑬ CADWELD #2 SOLID TINNED BARE COPPER WIRE LEAD TO TOWER BASE PLATE OR FLANGE PLATES (TYP 4).
- ⑭ SHIELD OF COAX CABLES FROM ANTENNAS SHALL BE BONDED TO GROUND BAR/BAR NONE.
- ⑮ CONNECT GENSET GROUND TO PROPOSED BURIED GROUND RING (TYP 2). PLACED AT OPPOSITE CORNERS OF GENERATOR PAD. BOLT TO GENERATOR WITH 2 HOLE GROUND LUG (DTL 2, SHT E-7 SIM). CLEAN PAINT UNDER CONNECTOR.
- ⑯ 6' MINIMUM #6 AWG PIGTAIL FOR TELCO COMPANY CONNECTION TO TELCO TERMINAL CAD WELDED TO GROUND RING.

ELECTRICAL SYMBOLS

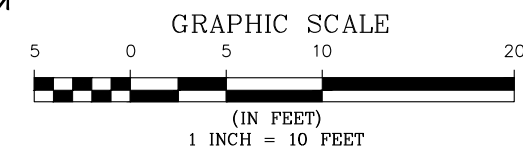
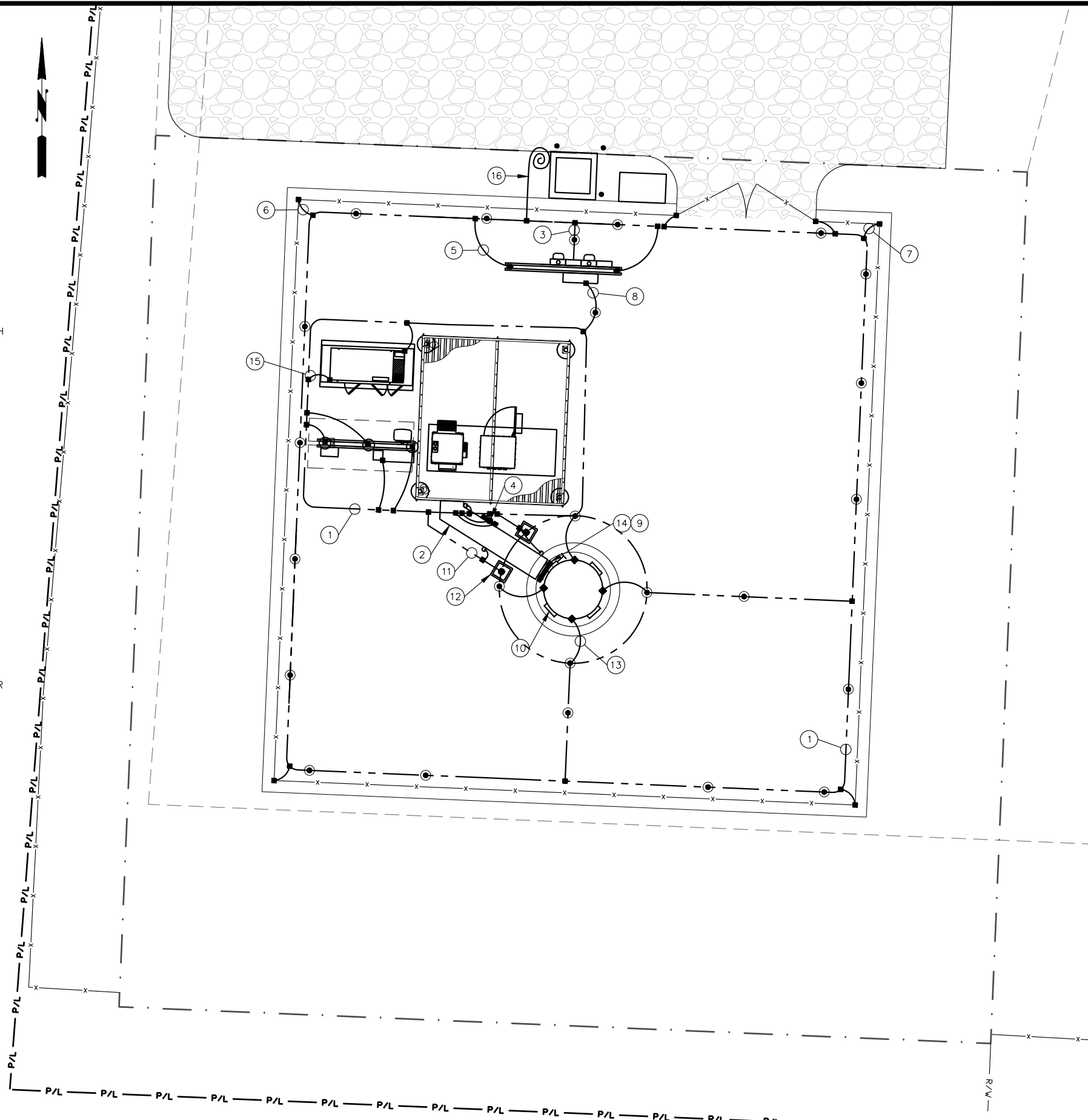
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GROUNDING NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
- 2. SPACING BETWEEN GROUND RODS SHALL BE 10'-0".
- 3. GROUND RINGS SHALL BE COMPRISED OF #2 AWG SOLID TINNED BARE COPPER WIRE, OFFSET 18" (MINIMUM) FROM EQUIPMENT PAD, BURIED AT 30" (MINIMUM) BELOW FINISHED GRADE. BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC (CADWELD) WELDS, CADWELD TO BE USED AT FENCE. PROTECT GROUND RING CONNECTIONS WITH T&B "KOPRSHIELD" HOMOGENEOUS BLEND OF COLLOIDAL COPPER AND RUST INHIBITOR. COORDINATE THE FINAL GROUNDING LAYOUT WITH THE VERIZON DIRECTOR OF CONSTRUCTION OR HIS DESIGNEE.
- 4. ALL GROUND LEADS SHALL BE INSTALLED IN A CLOCKWISE DIRECTION.



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07/08/2024

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TITLE: GROUNDING PLAN

SHEET: E-2

WINNMS RAWLAND 08-12-2022

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ELECTRICAL SPECIFICATIONS:

- SCOPE: PROVIDE LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE THE INSTALLATION AS REQUIRED BY MANUFACTURERS.
- CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF THE LATEST EDITIONS OF:
 - NFC – NATIONAL FIRE CODES
 - UL – UNDERWRITERS LABORATORIES
 - NEC – NATIONAL ELECTRIC CODE
 - NEMA – NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
 - OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC – STANDARD BUILDING CODE
- PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES AND INSPECTIONS AS REQUIRED.
- COORDINATION: COORDINATE WORK WITH OTHER TRADES.
- SUBMITTALS: SUBMIT BROCHURES FOR APPROVAL ON MAJOR SYSTEM COMPONENTS.
- EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- EQUIPMENT: PROPERLY CONNECT ELECTRICALLY OPERATED EQUIPMENT.
- RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES AND SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO LESSEE UPON COMPLETION OF THE PROJECT. IF ELECTRICAL SUB-CONTRACTOR USED, THEY WILL PROVIDE "RED-LINED" MARKED UP DRAWINGS UPON COMPLETION OF THEIR WORK. ONE COPY TO GC AND ONE COPY TO IM PM/CM.
- IDENTIFICATION: IDENTIFY SERVICE DISCONNECTING MEANS WITH PERMANENT NAME PLATE.
- CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
- DITCHING AND BACKFILL: PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES.

12. ALL CONDUIT SHALL BE SCHEDULE 80 PVC OF GALVANIZED PIPE AS CODE REQUIRES. PLUG AND CAP EACH END OF SPARE CONDUITS. ALL CONDUITS SHALL HAVE "MULE TAPE" PULL STRAP INSTALLED INSIDE WITH MINIMUM OF 10' LEFT ON EACH END FOR PULLING. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT.

- SUPPORTS: AS REQUIRED BY THE NEC (LATEST EDITION).
- CONDUCTORS: USE 98% CONDUCTIVITY COPPER WITH TYPE THHN/THWN OR EQUIVALENT 90°C INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 10 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 10 AWG.
- CONNECTORS FOR POWER CONDUCTORS: USE COMPRESSION TYPE INSULATED CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR #8 AWG AND LARGER.
- GROUNDING: MAIN GROUNDING CONDUCTORS SHALL BE A MINIMUM OF #2 AWG SOLID TINNED COPPER. GROUNDING LEADS ON ANTENNA SUPPORT STRUCTURES SHALL BE A MINIMUM OF #2 AWG SOLID BARE COPPER AND SHALL BE TINNED WHERE THEY ARE INSTALLED AGAINST THE STRUCTURE. GROUND BARS SHALL BE 1/4" THICK, 4" WIDE, LENGTH AS REQUIRED. GROUND RESISTANCE TO BE 5 OHM MAXIMUM. PROVIDE ADDITIONAL GROUNDING RODS AS REQUIRED.
- TELEPHONE SERVICE: PROVIDE EMPTY CONDUITS WITH PULL WIRES (10' ON EACH SIDE OF CONDUIT). "MULE-TAPE" WILL BE USED IN ALL CONDUITS AS PULL STRAP. NO EXCEPTIONS.

18. SERVICE: 240/120, SINGLE PHASE, 3 WIRE, 200 AMP WITH CIRCUIT BREAKER TYPE DISCONNECT FROM THE METER CENTER.

GROUND BAR/ BAR NONE NOTES:

- THE SIZE OF THE GROUND BARS INSTALLED ON TOWERS SHALL BE 1/4" x 4" x LENGTH AS REQUIRED. TOP OF TOWER BARS MAY BE SMALLER, BUT MUST PROVIDE FOR FULL POTENTIAL OF FUTURE CONNECTIONS.
- THE LOWEST POINT OF THE GROUND BAR AT THE BOTTOM OF THE VERTICAL RUN SHOULD BE APPROXIMATELY ONE TO TWO FEET ABOVE THE WAVEGUIDE BRIDGE ICE SHIELD. TWO FEET IS THE MAXIMUM HEIGHT. THIS GROUND BAR SHOULD EXTEND APPROXIMATELY 6" BEYOND THE TOWER LEG TO FACILITATE WIRE ROUTING.
- INTERMEDIATE TOWER GROUND BARS SHALL BE INSTALLED ON 75' CENTERS FROM THE CENTERLINE OF THE ANTENNAS DOWN. WHERE LESS THAN 100' FROM THE LOWEST GROUND BAR TO FINISHED GRADE EXISTS, AN ADDITIONAL INTERMEDIATE GROUND BAR IS NOT REQUIRED.
- ALL TOWER TOP GROUND BARS SHALL BE BOLTED TO TOWER STEEL, DEPENDING ON LOCATION, WITH APPROVED GROUNDING CLAMPS. NO ANGLE ADAPTERS OR ROUND MEMBER CLAMPS ALLOWED.
- THE BOTTOM GROUND BAR NONE ASSEMBLY SHALL BE BONDED WITH TWO NO. 2 SOLID, TINNED, COPPER WIRES TO THE TOWER GROUND RING. GROUND WIRES SHALL BE BONDED TO THE GROUND BAR NONE WITH 2-HOLE LUG CONNECTIONS AND TO THE GROUND RING WITH EXOTHERMIC WELDS. GROUND BAR NONE TO BE ISOLATED FROM THE TOWER. THE LEADS MUST RUN AS DIRECT AND STRAIGHT AS POSSIBLE IN 3/4" NON-METALLIC FLEX. SHOULD EXCESSIVE FOUNDATION HEIGHT REQUIRE GROUND BAR INSTALLATION ABOVE 10-12 FEET, THIS CONNECTION MAY BE MADE DIRECTLY TO THE TOWER. THE FIELD MANAGER MUST APPROVE THIS ALTERNATIVE.
- THE MAIN REFERENCE GROUND BAR NONE (MRGBN) SHALL BE BONDED 2" IN FROM END MAX WITH NO. 2 SOLID, TINNED, COPPER WIRE TO THE GROUND RING SYSTEM. GROUND WIRES SHALL BE BONDED TO THE GROUND BAR WITH 2-HOLE LUG CONNECTIONS AND TO THE GROUND RING WITH EXOTHERMIC WELDS.
- THIS GROUND BAR NONE SHALL BE MOUNTED AND SUPPORTED FROM THE CORNER CANOPY POST AND BELOW THE LOWEST SET OF TRANSMISSION LINES.
- ALL EXTERIOR TRANSMISSION LINE GROUNDS HAVE INSULATED NO. 6 STRANDED COPPER CONDUCTORS WITH TWO HOLE COMPRESSION LUGS. GROUND CONDUCTORS MUST ALWAYS FALL DOWNWARD TO THE GROUND BAR CONNECTION.
- IF NON-TINNED GROUND BARS ARE USED (PERMITTED INSIDE THE SHELTER ONLY), THE GROUND BARS MUST BE CLEANED TO REMOVE ANY OXIDATION, PAINT OR OTHER FOREIGN SUBSTANCES. THE POINTS OF CONNECTION MUST BE COATED WITH A CONDUCTIVE, ANTI-OXIDATION MATERIAL. AFTER THE CONNECTIONS ARE MADE, THE GROUND BARS AND THEIR TERMINATIONS SHALL BE COATED WITH AN ANTIOXIDANT MATERIAL. WIPE CLEAN ALL EXCESS.
- TRANSMISSION LINE GROUNDS SHALL HAVE 2 INCHES OF SLACK. THEY ARE NOT TO BE INSTALLED TIGHT TO ACCOMMODATE FOR MOVEMENT. ALL GROUND WIRE SHALL HAVE A MINIMUM BENDING RADIUS OF 12".
- ALL CONNECTIONS TO GROUND BARS OR EQUIPMENT WITH TWO-HOLE COMPRESSION LUGS. GROUNDING CONNECTORS SHALL BE COPPER. NUTS, BOLTS, AND WASHERS SHALL BE STAINLESS STEEL.
- ALL EXTERNAL GROUND BARS ARE TO BE TINNED. TOWER GROUND BARS SHALL BE NON-ISOLATED AND BOLTED DIRECTLY TO TOWER STEEL.

UTILITY COORDINATION NOTES:

TELCO

- TELCO SERVICE PROVIDER (TSP) SHALL BE RESPONSIBLE TO FURNISH AND INSTALL THE TELCO DEMARC, AS AGREED TO DURING THE FIBER OPTIC WALK HELD BETWEEN TSP AND VERIZON. SEE TELCO DEMARC DATA ON PAGE TD-1 OF THESE DRAWINGS.
- GENERAL CONTRACTOR (GC) TO FURNISH, INSTALL, TEST AND REPAIR TELCO SERVICE EQUIPMENT AS IS REQUIRED BY THE PROJECT AND SHOW ON THE TELCO DEMARC DATA PAGE TD-1. THIS MAY INCLUDE BUT NOT LIMITED TO SUCH ITEMS AS HANDHOLES, PULL BOXES, CONDUIT, HOFFMAN BOXES, TELCO JUNCTION BOXES, OUTSIDE RATED FIBER OPTIC JUMPERS, DUAL 48 VOLT DC POWER CIRCUITS RATED AT 5A, 10A, OR AS REQUIRED BY TSP DURING FIBER OPTIC WALK. ALL CONDUITS SHALL HAVE "MULE TAPE" PULL STRAP INSIDE THEM WITH A MINIMUM OF 10' EXTRA FOR PULL ASSIST ON BOTH ENDS.

ELECTRIC

- GC WILL FURNISH AND INSTALL 200 AMP CIRCUIT BREAKER TYPE DISCONNECT, ALL ASSOCIATED CONDUIT (SCH 80 OR GALV PIPE) AS REQUIRED BY CODE, APPROPRIATE SIZED WIRING PER LOCAL UTILITY AND THE UTILITY FURNISHED METER PAN.
- GC TO ESTABLISH ELECTRIC SERVICE ACCOUNT WITHIN 48 HOURS OF RECEIVING VZW PURCHASE ORDER. GC TO PICK UP THE METER PAN WHEN APPLYING FOR THE ELECTRIC SERVICE PERMIT.
- GC TO INSTALL ELECTRIC SERVICE FROM THE UTILITY SERVICE DEMARC (EITHER THE H-FRAME OR UTILITY POLE AS AGREED TO WITH UTILITY). THIS SERVICE SHALL TERMINATE IN EITHER THE CABINET MOUNTED ILC OR THE SHELTER'S ELECTRIC POWER TERMINATION POINT.



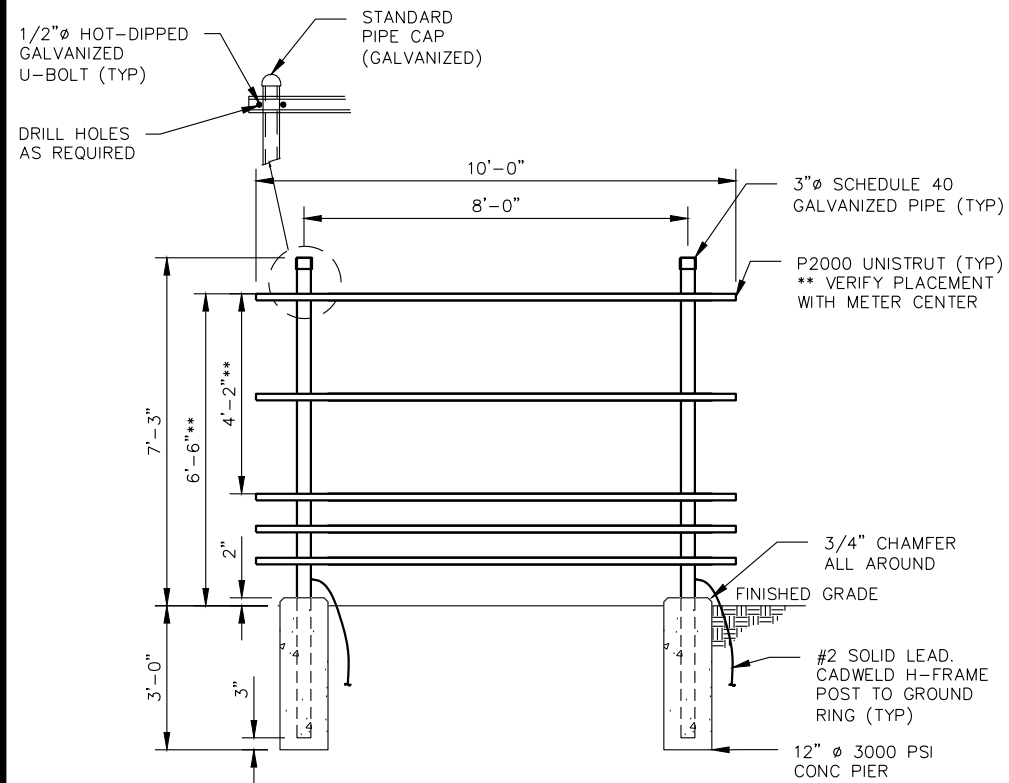
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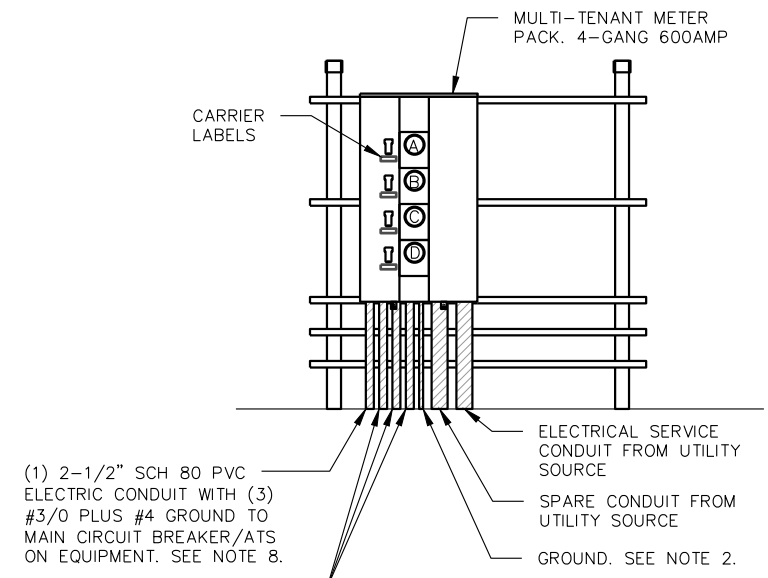
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SHEET: E-4

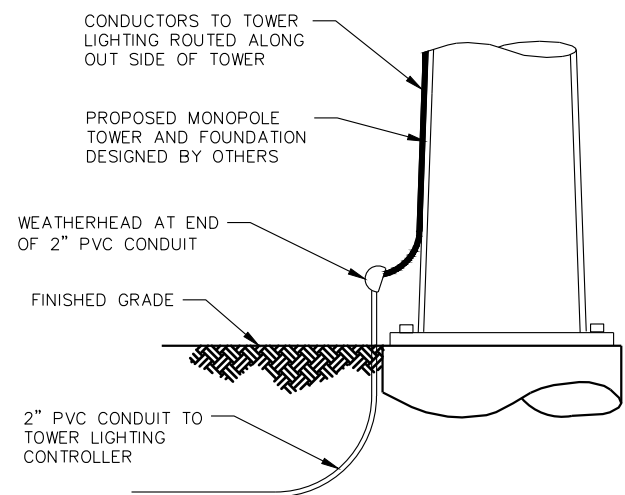
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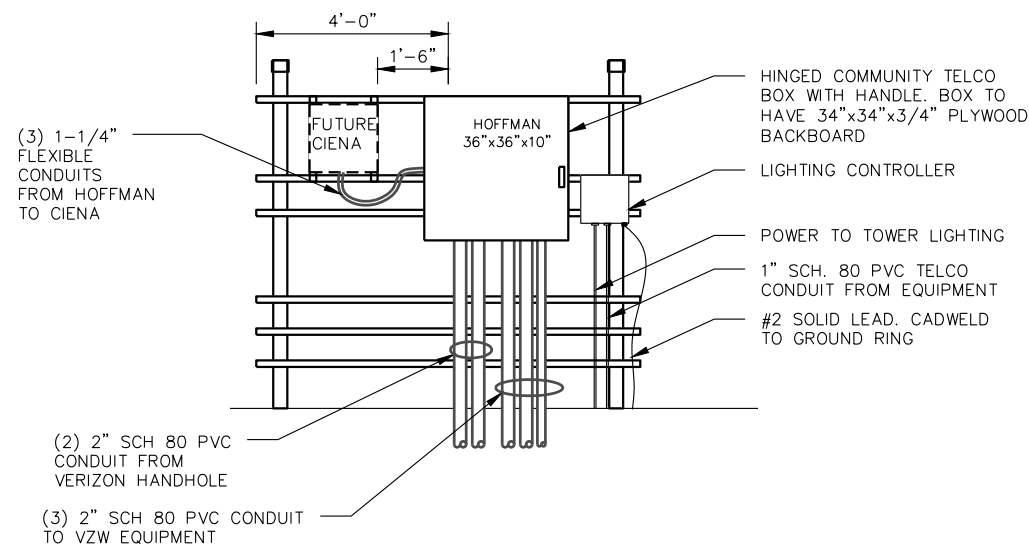
10' H-FRAME DETAIL
NTS



METER BOARD STRUCTURE-ELECTRIC SIDE
(4-GANG)
NTS



TOWER LIGHTING CONDUIT AT TOWER DETAIL
NTS



WHEN REQUIRED
METERBOARD STRUCTURE - COMPOUND SIDE
NTS

NOTES:

- ELECTRICAL SERVICE SHALL BE RATED 600A, 240/120V, 1Ø, 3W. COORDINATE METER CENTER ACCEPTABILITY W/ LOCAL UTILITY COMPANY PRIOR TO ORDERING AND INSTALLATION.
- CONNECT NEUTRAL TERMINAL IN DISCONNECTING DEVICE TO GROUNDING ELECTRODE. (#6 AWG GROUNDING ELECTRODE IN 3/4" PVC CONDUIT)
- PROVIDE GROUNDING ELECTRODE AND CONNECT TO METER AND SERVICE DISCONNECT PER NEC AND PER UTILITY COMPANY SPECIFICATIONS.
- REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE REQUIREMENTS.
- ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN
- ELECTRICAL EQUIPMENT SHALL HAVE MIN 3'-0" CLEARANCE FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
- #2 AWG BARE SOLID TINNED COPPER WIRE BONDED TO GROUNDING SYSTEM (TYP)
- ALL CONDUITS TO BE SCH. 40 OR GREATER PVC BELOW GRADE. ALL CONDUITS TO HAVE RIGID GALVANIZED STEEL (RGS) SWEEPS AND RISERS.
- LABEL ALL EQUIPMENT / BOXES ON H-FRAME WITH UV RATED LABELS.
- ALL CONDUITS ARE REQUIRED TO BE STRAPPED TO THE UNISTRUT ON THE H-FRAME.
- USE NON-FUSED BREAKER FOR DISCONNECT IF ALLOWED BY CODE.

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

Bowman
CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & SURVEYORS
3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427

07/08/2024

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19473
JEFFREY T. LASHBROOK

SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

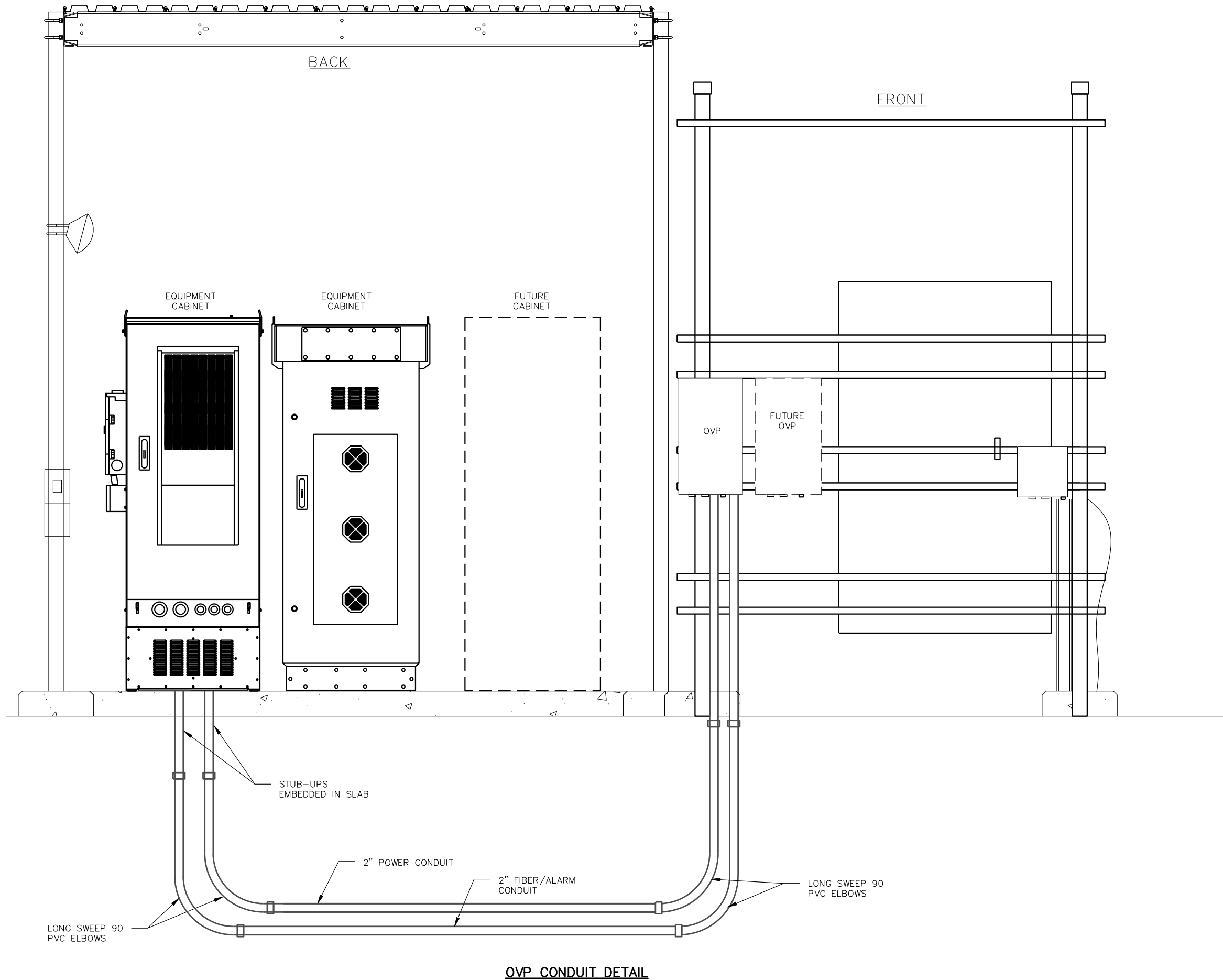
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2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL

TITLE: UTILITY H-FRAME ELECTRIC

SHEET: E-5
WINNMS RAWLAND 08-12-2022

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OVP CONDUIT DETAIL

verticalbridge
 750 PARK OF COMMERCE DRIVE
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AREA: LEASE AREA = 5625 SF

PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
 1849 W HENRI DE TONTI BLVD
 TONTITOWN, AR 72704

TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200

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TITLE: VZW OUTDOOR OVP CUT SHEET

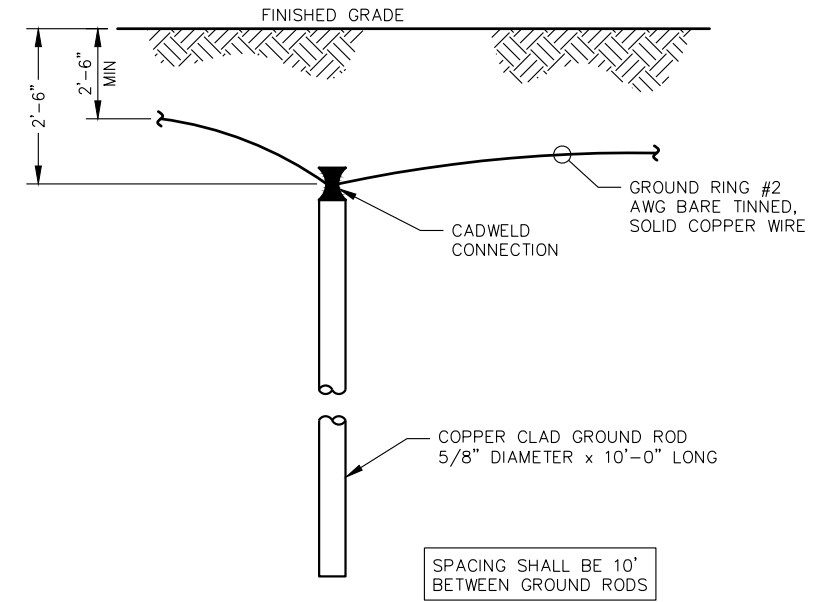
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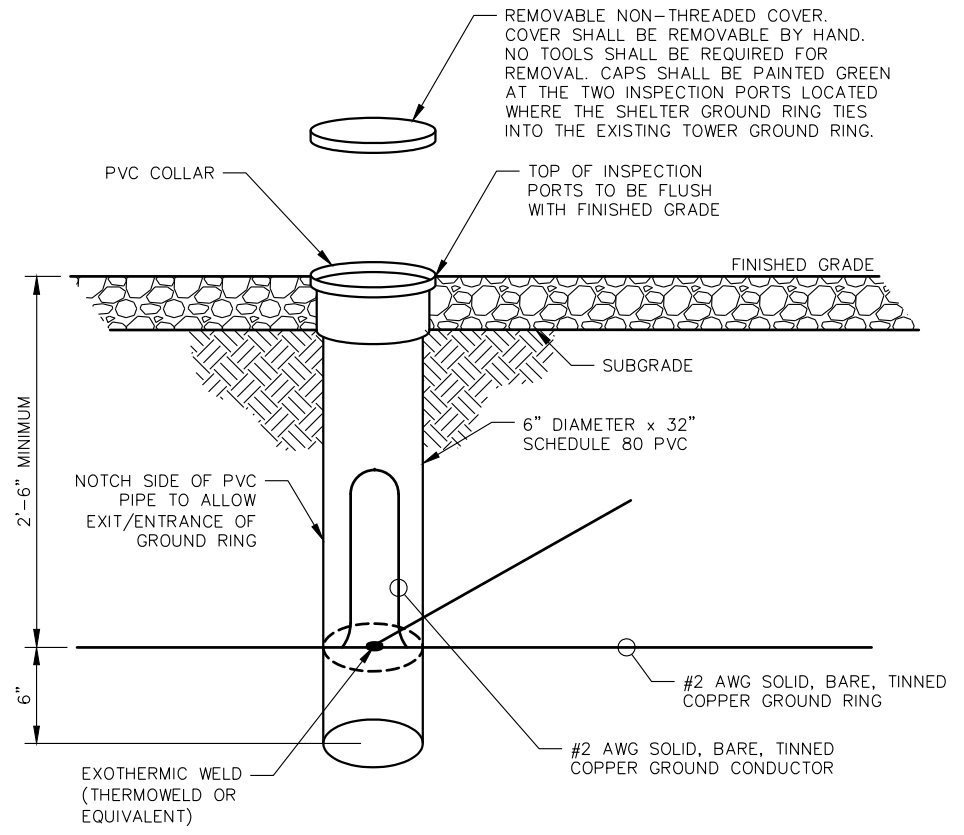
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verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

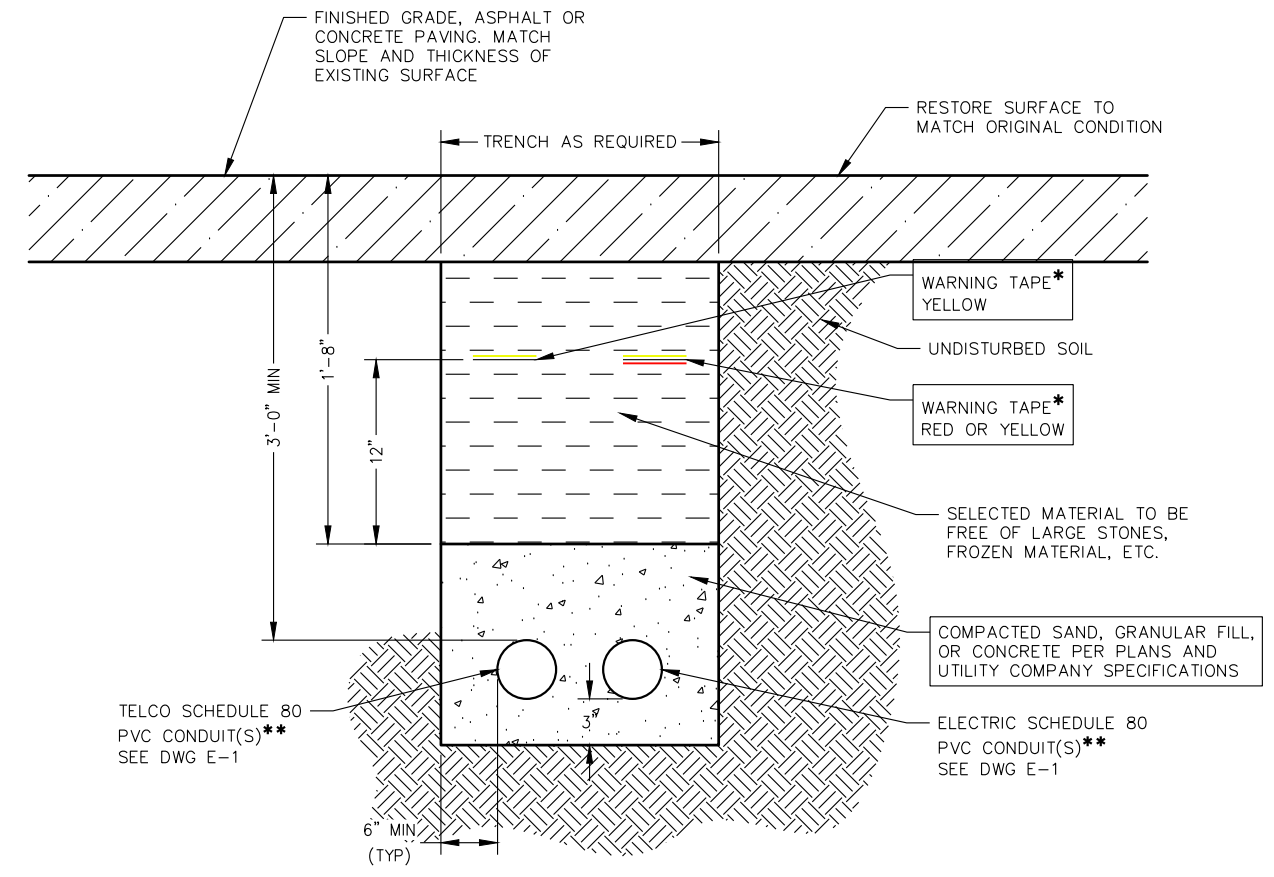
Bowman
CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & DESIGNERS
3000 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427



GROUND ROD
NTS



PRIMARY BOND WITH INSPECTION SLEEVE
NTS



ELECTRIC/TELEPHONE TRENCH
NTS

POWER AND FIBER CAN BE IN SAME TRENCH AS LONG AS THEY ARE SEPARATED BY A MINIMUM OF 12". THIS WILL REQUIRE BOTH TYPES OF CONDUITS TO BE SAFETY MARKED. TRACER WIRE REQUIRED OVER FIBER CONDUIT WITHIN 12" OF TOP.

**SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS, SIZE AS REQUIRED.

*WARNING TAPE PER CURRENT NEC. RED OR YELLOW TAPE ABOVE ELECTRIC CONDUIT TO READ: "CAUTION-ELECTRICAL CABLE BELOW". YELLOW TAPE ABOVE FIBER TO INCLUDE TRACER WIRE AND READ: "CAUTION-BURIED FIBER OPTIC CABLE"

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TITLE: ELECTRICAL DETAILS
 SHEET: E-6
 WINNMS RAWLAND 08-12-2022



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SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
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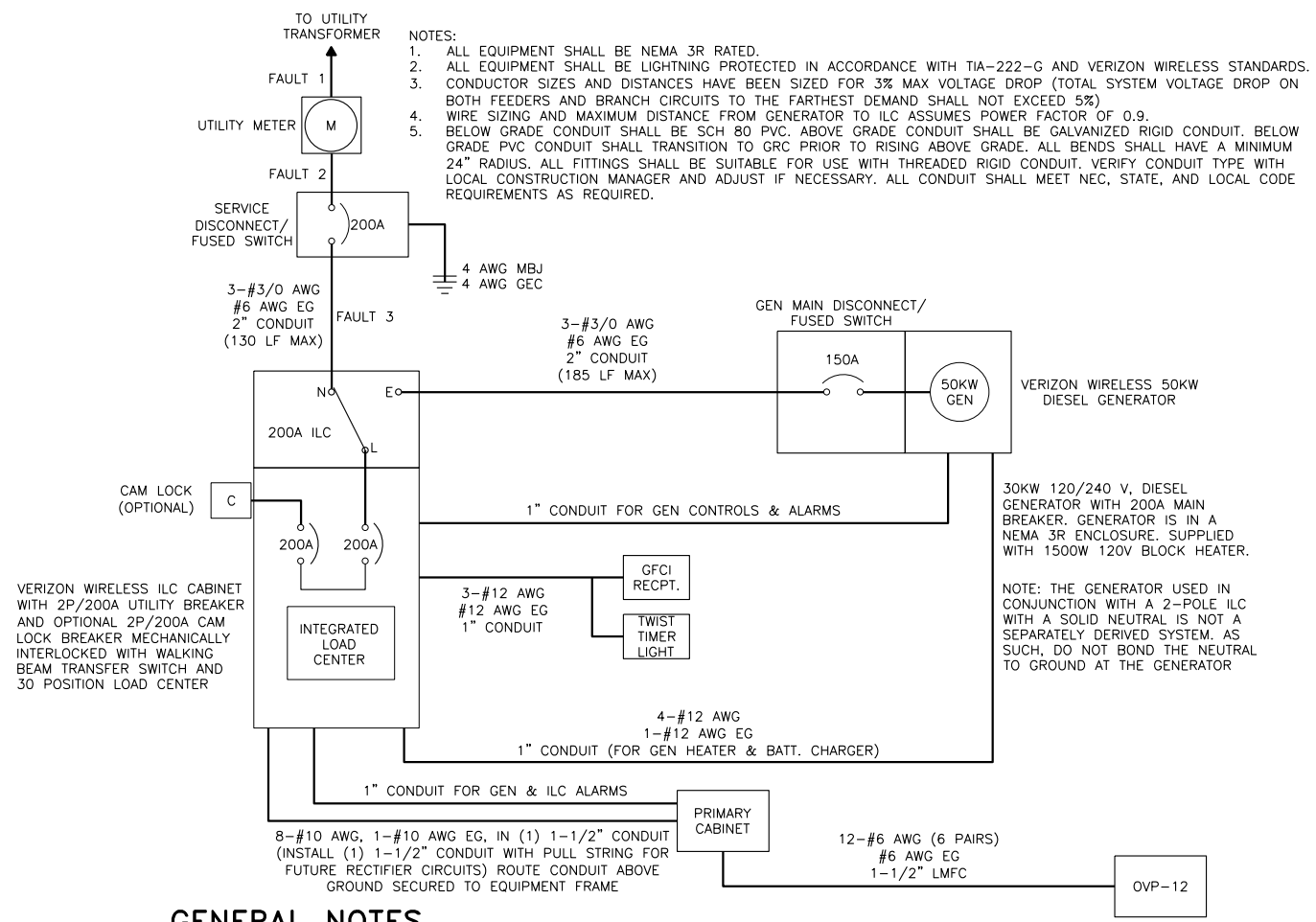
TITLE: ELECTRICAL DETAILS
SHEET: E-6A
WINNMS RAWLAND 08-12-2022

PANEL NAME:		VZW ILC		MODEL NUMBER:		ASCO D300L SERIES						
RATED VOLTAGE:		240	120	VOLTS		PHASE/WIRE:						
200		AMPS		200		KEY DOOR LATCH: YES						
MOUNT:		SURFACE		NEUTRAL BAR: YES		HINGED DOOR: YES						
ENCLOSURE TYPE:		NEMA 3R		AIC:		YES						
POS	USAGE FACTOR	BUS AMPS		LOAD	POLES	AMPS	POLES	LOAD	BUS AMPS		USAGE FACTOR	POS
		L1	L2						L1	L2		
1	1	9.5		RECTIFIER (1) NE075AC48ATEZ	2	30A		RECTIFIER (1) NE075AC48ATEZ	9.5		1	2
3	1		9.5							9.5	1	4
5	1	9.5		RECTIFIER (1) NE075AC48ATEZ	2	30A		RECTIFIER (1) NE075AC48ATEZ	9.5		1	6
7	1		9.5							9.5	1	8
9	1	9.5		RECTIFIER (1) NE075AC48ATEZ	2	30A		RECTIFIER (1) NE075AC48ATEZ	9.5		1	10
11	1		9.5							9.5	1	12
13	1	9.5		RECTIFIER (1) NE075AC48ATEZ	2	30A		RECTIFIER (1) NE075AC48ATEZ	9.5		1	14
15	1		9.5							9.5	1	16
17	1.25	16		GFI RECEPT./TWIST TIMER LIGHT	1							18
19	1		16	BLOCK HEATER	1							20
21	1	16		BATT. CHARGER								22
23												24
25												26
27												28
29												30
		70	54	:SUB TOTAL AMPS						SUB TOTAL AMPS:	38	38
										FACTORED TOTAL AMPS:	108	92

NOTES:
1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.
3. ASCO INTEGRATED LOAD CENTER INCLUDES 200 AMP MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS
5. IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSES TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE ESCALATED AND UPGRADE AS NECESSARY.

PANEL SCHEDULE "A"

SCALE: N.T.S.



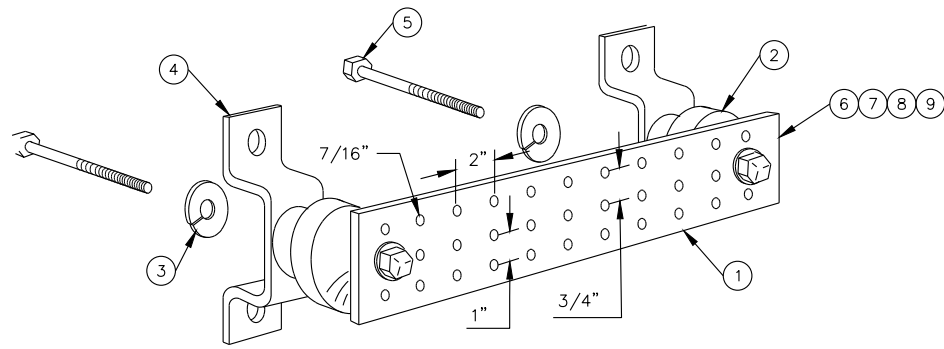
GENERAL NOTES

- ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (EDITION ENFORCED BY LOCAL AUTHORITY), AND ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUCTED AS TO PERMIT WORK NOT CONFIRMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY FOR THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY (SPECIFICALLY BEFORE BIDDING SUBMITTAL) NOTIFY THE ENGINEER IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- THE CONTRACTOR SHALL MAKE A SITE VISITATION PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHOULD NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND THIS SPECIFICATION AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, INCLUDING WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE CONTRACT DOCUMENTS BUT ARE NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY OF THE DESIRED LOCATIONS OR ARRANGEMENTS OF THE CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC. AND SHALL BE FOLLOWED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE LIMITATIONS.
- FEEDER AND BRANCH CIRCUITS SHALL RUN IN EMT FOR INDOOR PROTECTED LOCATIONS ONLY. FEEDER AND BRANCH CIRCUITS RUN IN NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE EQUIPMENT GROUND CONNECTOR SHALL BE PROPERLY CONNECTED TO MAINTAIN ELECTRICAL CONTINUITY.
- WIRING SHALL BE TYPE THWN-2.
- ALL DIRECT BURIED GROUNDING CONDUCTORS SHALL BE #2 SOLID, BARE TINNED COPPER.
- ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUNDING CONDUCTORS SHALL BE #2 STRANDED, THWN (GREEN)
- ALL TELEPHONE EQUIPMENT GROUNDING CONNECTIONS AND SPLICES SHALL BE MADE WITH BURNDY "HY-GROUND" CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- CONTRACTOR SHALL CHECK RESISTANCE BETWEEN GROUNDING (ELECTRODES AND COLD WATER PIPING) AND TELEPHONE EQUIPMENT. MAXIMUM RESISTANCE SHALL NOT EXCEED 3 OHMS.
- UTILITY SERVICE REQUIREMENTS ARE SHOWN ON THE DRAWINGS BASED ON INFORMATION AVAILABLE AT THE TIME AND ARE NOT GUARANTEED.
- DISCONNECTS SHALL BE HEAVY DUTY - MIN. 10,000 AIC RATING. ACCEPTABLE MANUFACTURERS: G.E., SQUARE D, WESCO/CUTLER HAMMER OR SIEMENS.
- PVC SCHEDULE 40 MAY BE USED AS PERMITTED BY CODE IN LIEU OF RIGID STEEL CONDUIT FOR UNDERGROUND APPLICATIONS ONLY. INSTALL A CODE SIZED INSULATED BONDED EQUIPMENT GROUND CONDUCTOR (GREEN). USE RIGID STEEL 90° ELBOWS.
- REFER TO GROUNDING NOTES ON SHEET E-3. CONTRACTOR MUST REVIEW EQUIPMENT GROUNDING GUIDELINE FOR CELLULAR RADIO INSTALLATIONS AND CONFORM TO RECOMMENDATIONS THEREIN.
- ELECTRICAL EQUIPMENT, CIRCUIT PROTECTIVE DEVICES, BUSSING AND SWITCHES SHALL BE RATED TO INTERRUPT OR WITHSTAND SHORT CIRCUIT FAULTS GREATER THAN THE AVAILABLE FAULT CURRENT.

ELECTRICAL NOTES

- CONTRACTOR SHALL REMOVE ALL TEMPORARY GROUNDING PROVIDED DURING TOWER INSTALLATION AND REPLACE WITH PERMANENT GROUNDING PER THE GROUNDING PLAN AND DETAILS.
- CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER ON JOB SITE INCLUDING SERVICE POLE, ENTRY CONDUCTORS, METER, AND DISCONNECTS AS REQUIRED. IF POWER COMPANY TEMPORARY SERVICE IS NOT AVAILABLE, CONTRACTOR SHALL PROVIDE A 10KW MIN. SIZE GENERATOR TO SUPPLY DEMAND.
- ALL ELECTRICAL WIRING SHALL, INCLUDE EQUIPMENT AND CONDUIT BONDING, BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER CODES HAVING JURISDICTION.
- ALL WIRE IN ALL SERVICE AREAS SHALL BE TYPE THWN-2 COPPER, MINIMUM SIZE #12 AWG. EXCEPT CONTROL WIRING. ALL WIRE UNDERGROUND AND IN WET SERVICE AREAS SHALL BE TYPE THWN-2 COPPER, MINIMUM SIZE #12 AWG. EXCEPT CONTROL WIRING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE DROP POLES SET WITH LOCAL UTILITY COMPANY.
- CONTRACTOR SHALL FILL TRENCH EXCAVATIONS AS NOTED. EXTERIOR CONDUIT TO BE RGS AT 18" BELOW GRADE EXCEPT IN AREAS OF VEHICLE TRAFFIC WHERE IT SHALL BE 24" BELOW GRADE.
- INSTALL PULL BOXES AS REQUIRED BY N.E.C.

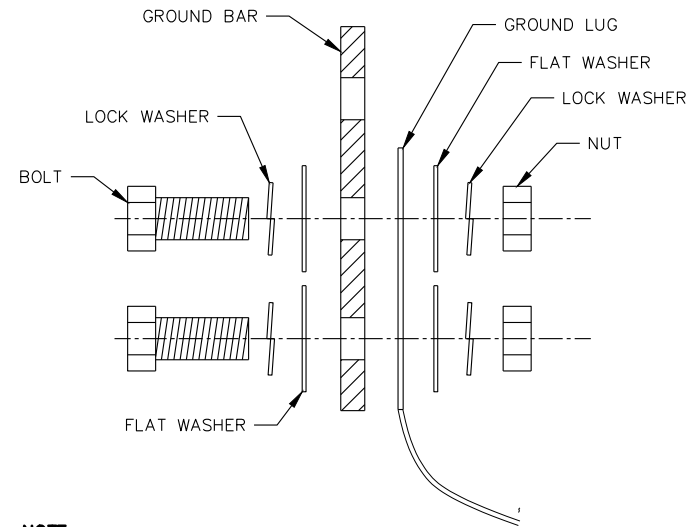
LOAD CALCULATION	
LOAD	AMPS
PROPOSED LOAD:	200.0
TOTAL DEMAND	200.0
VOLTAGE: 120/240V SINGLE PHASE 3W 200A	



LEGEND:

1. TIN COATED COPPER GROUND BAR, 1/4" x 2" x 20" MINIMUM, NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 3061-4
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT NO. 3015-8
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056
5. 5/8-11 x 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO 3012-1
6. GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY.
7. ANTI-OXIDATION COMPOUND (KOPR-SHIELD OR EQUAL) TO EXPOSED AREA GROUND BAR BEFORE MATING.
8. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING WASHERS.
9. DO NOT DRILL OR RE-DRILL HOLES IN TINNED COPPER GROUND BAR.

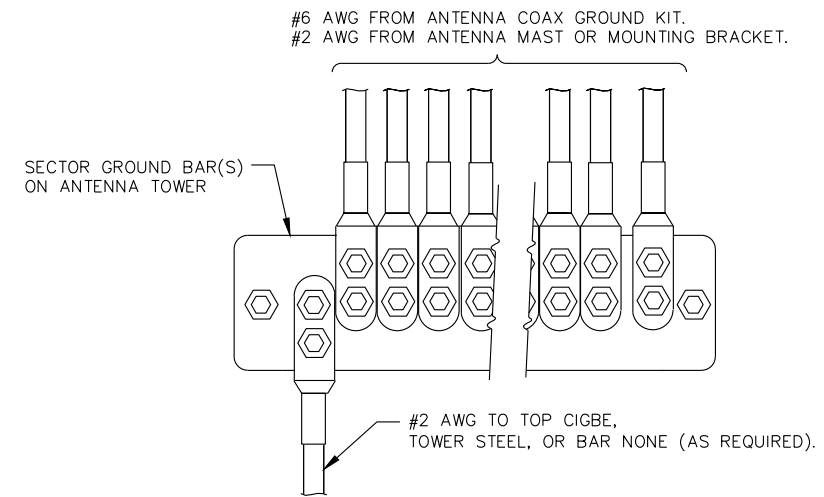
1
E-7 ANTENNA & TOWER TOP - GROUND BAR
NTS



NOTE:

WHEN CONNECTING A GROUND LEAD TO ANY GROUND BAR, CONTRACTOR SHALL FOLLOW THIS SEQUENCE: BOLT HEAD, LOCK WASHER, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER, AND THE NUT. CONTRACTOR SHALL NOT PLACE LOCK WASHER NEXT TO ANY TINNED SURFACE.

2
E-7 GROUND BAR CONNECTION DETAIL
NTS



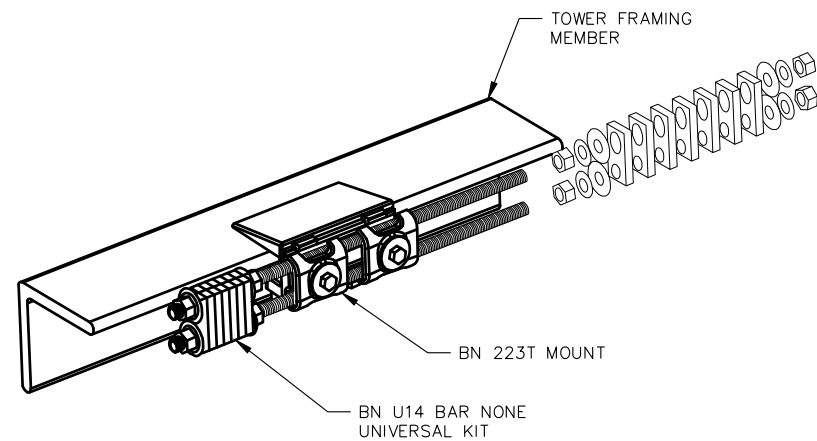
NOTE:

1. TIN COATED COPPER GROUND BAR 1/4" x 4" x LENGTH AS REQUIRED TO ACCOMMODATE INSTALLED ANTENNA, PLUS 50% SPARE CAPACITY, NEWTON INSTRUMENT CO. OR EQUIVALENT. 2-HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. SIMILAR INSTALLATION FOR TOP TOWER GROUND BARS AND FOR COAX ENTRY PORT GROUND BARS.

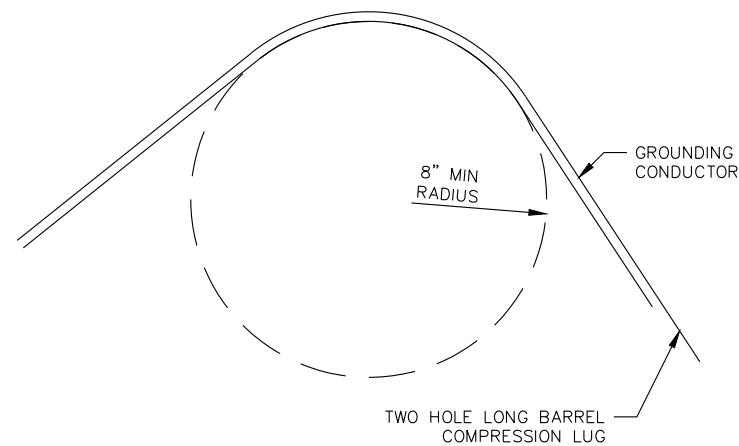
3
E-7 GROUND WIRE INSTALLATION TO GROUND BAR
NTS

NOTES:

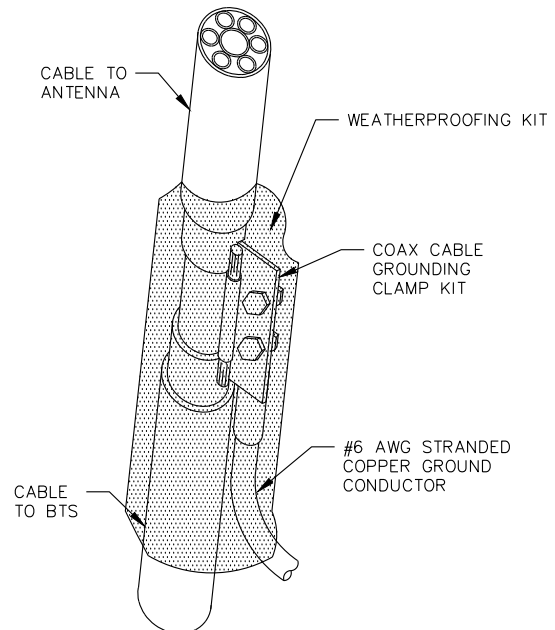
1. CLEAN SURFACES TO BE WELDED OF ALL PAINT, DIRT, MOISTURE, CORROSION AND OTHER FOREIGN MATTER.
2. MAKE APPROPRIATE WELDED CONNECTION (REFER TO DETAILS). USE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
3. IF WELDED MATERIALS HAVE A GALVANIZED FINISH, APPLY A PROTECTIVE COLD GALVANIZE COATING.



4
E-7 TOWER BOTTOM - BAR NONE UNIVERSAL KIT
NTS



5
E-7 MINIMUM GROUNDING CONDUCTOR RADIUS
NTS



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND IN CABLE.
2. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
3. 2 1/2" DIAMETER MAX FOR TX/RX ANTENNA CABLES.
4. 1 1/4" DIAMETER MAX FOR GPS ANTENNA CABLES.

6
E-7 COAX CABLE GROUND
NTS

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

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07/08/2024
STATE OF ARKANSAS
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JEFFREY T. LASHBROOK
No. 19473

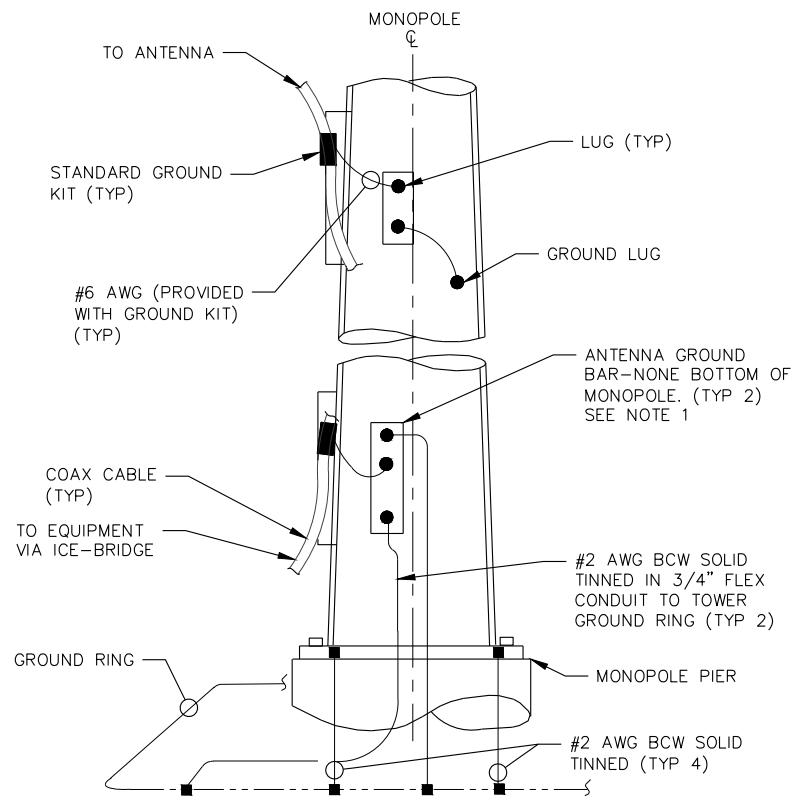
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TITLE: GROUNDING DETAILS
SHEET: E-7
WINNMS RAWLAND 08-12-2022

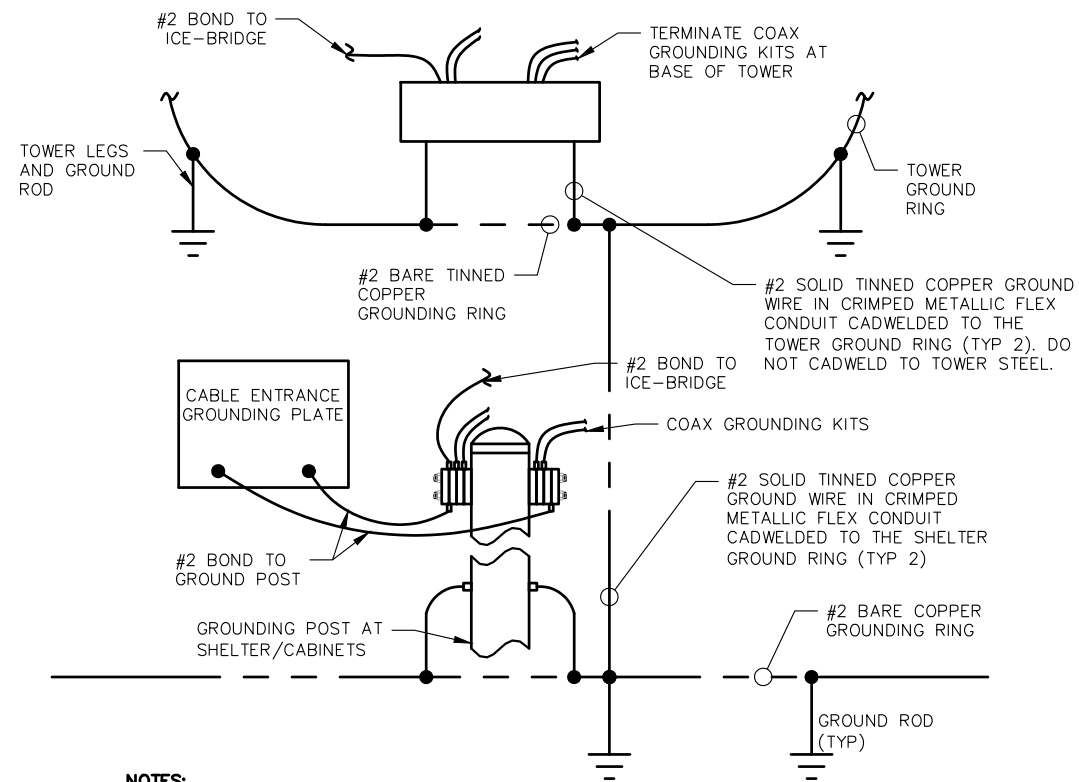
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- NOTES:**
- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
 - SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

1 ANTENNA CABLE GROUNDING - MONOPOLE
NTS



- NOTES:**
- BOND BAR-NONE GROUND POSTS TO THE TOWER GROUND RING. DOWN LEADS SHOULD BE BONDED TO THE GROUND POSTS BELOW GRADE PER MANUFACTURER'S RECOMMENDATIONS. ALL #2 AWG BARE COPPER WIRE GROUND LEADS ABOVE GRADE (EXCLUDING THOSE HIGHER UP ON THE TOWER) ARE TO BE INCASED IN METALLIC FLEX CONDUIT. CRIMP CONDUIT EVERY 6 INCHES AS NECESSARY TO SECURE AND CONCEAL COPPER GROUND LEADS.

2 GROUNDING SYSTEM RISER
SCHEMATIC

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

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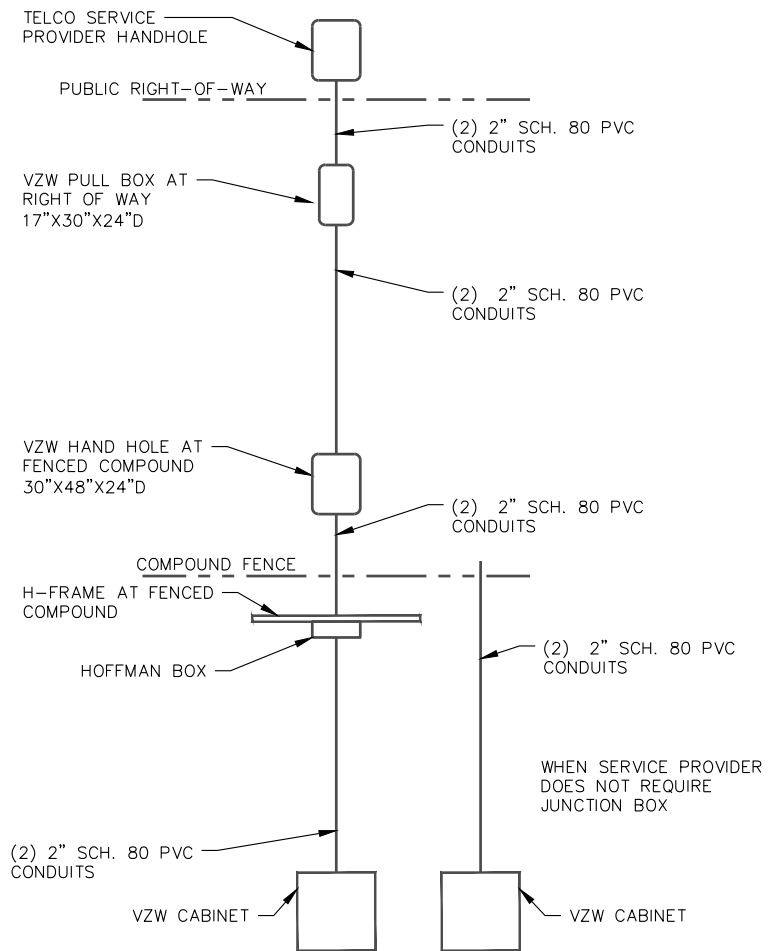
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TITLE: GROUNDING DETAILS

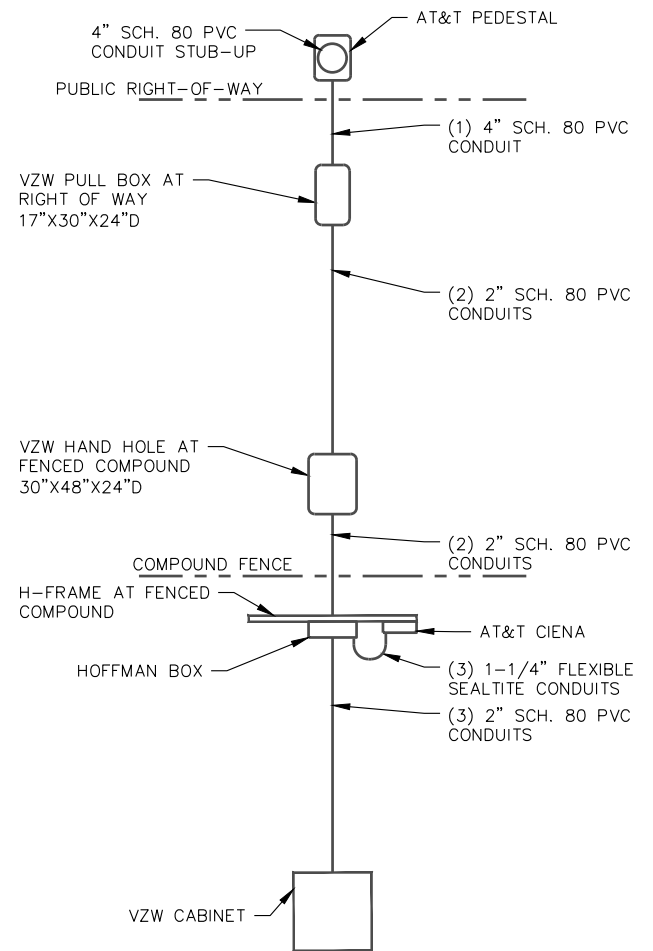
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OTHER TELCO SERVICE PROVIDER REQUIREMENTS



AT&T TELCO REQUIREMENTS

NOTE: FOR CONDUIT RUNS OVER 250 FEET USE 3" SCH 80 PVC WITH MINIMUM 1200 LB TEST "MULE TAPE" PULL STRAP. MAXIMUM 500' BETWEEN PULL BOXES. MAXIMUM (3) 90 DEGREE TURNS BETWEEN PULL BOXES. ADD PULL BOXES AS REQUIRED.

TELCO ONE LINE DIAGRAM (RIGHT-OF-WAY TO VZW EQUIPMENT)

NTS

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

Bowman
CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & DESIGNERS
300 W. MAIN ST. SUITE 400
LOUISVILLE, KENTUCKY 40202
PHONE: (502) 459-8402 FAX: (503) 459-8427



SITE NAME:	HENRI DE TONTI AR	
SITE NUMBER:	US-AR-5209	
SITE ADDRESS:	1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762	
AREA:	LEASE AREA = 5625 SF	
PROPERTY OWNER:	UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704	
TAX MAP NUMBER:	-	PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE:	DEED BOOK - PAGE -	
LATITUDE:	36° 10' 24.87"	LONGITUDE: W 94° 16' 04.97"

NO.	BY	DESCRIPTION	DATE	CHK	REVISIONS	
					DATE	BY
0	JTL	CONSTRUCTION ISSUE	05/20/24	JTL		
1	JTL	CONSTRUCTION ISSUE	06/07/24	JTL		
2	JTL	CONSTRUCTION ISSUE	07/08/24	JTL		

TITLE: **TELCO ONE-LINE DIAGRAM**

SHEET: **TD-1**
WINNMS RAWLAND 08-12-2022

V:\240900 - Telecom Projects\240900-01-001 (ENG) - Telecom Projects\Engineering\Henri De Tonti - VB CDs - 240900-01-01\3\Drawings\Henri De Tonti-ELECTRIC DETAILS.dwg, TD-2, 7/8/2024 1:36:19 PM, jlashbrook



FIBER OPTIC MARKER POST

REQUIRED AT HAND HOLE
OR PULL BOX OUTSIDE OF
COMPOUND



FIBER OPTIC MARKER TAPE

TO BE 18" ABOVE THE
FIBER CONDUIT



FIBER OPTIC MARKER SIGN

(2) SIGNS TO BE POSTED ON
FENCE INSIDE COMPOUND
ALONG THE FIBER PATH

verticalbridge
750 PARK OF
COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

Bowman
CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & DESIGNERS
301 W. MAIN ST. SUITE 400
LOUISVILLE, KENTUCKY 40202
PHONE: (502) 459-8402 FAX: (503) 459-8427



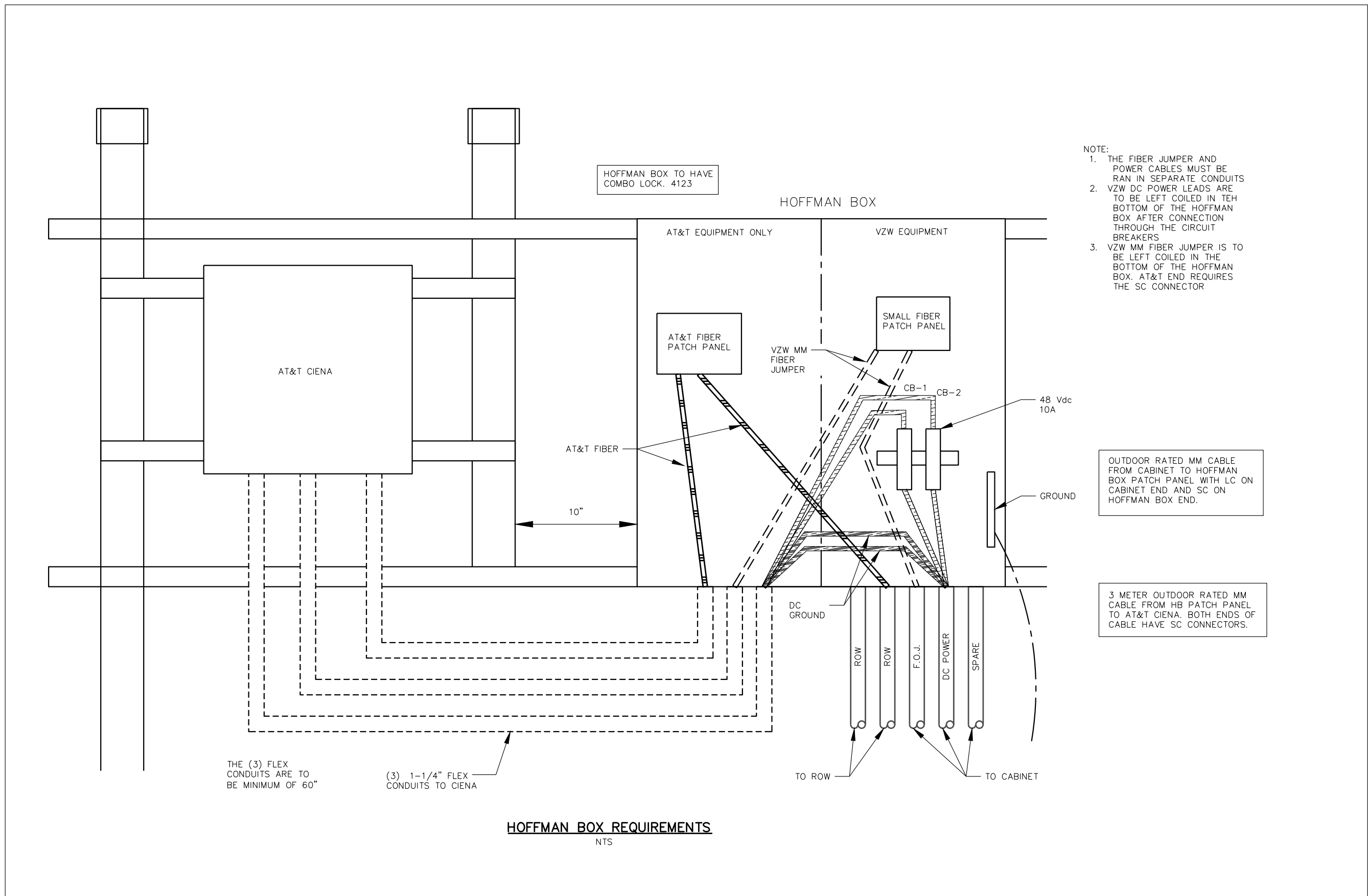
SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD
SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC
1849 W HENRI DE TONTI BLVD
TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

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TITLE: TELCO SIGNAGE DETAILS

SHEET: TD-2

V:\240900 - Telecom Projects\240900-01-001 (ENG) - Telecom Projects\Engineering\Henri De Tonti - VB CDs - 240900-01-013\Drawings\Henri De Tonti-ELECTRIC DETAILS.dwg, TD-3, 7/8/2024 1:38:17 PM, jlashbrook



- NOTE:
1. THE FIBER JUMPER AND POWER CABLES MUST BE RAN IN SEPARATE CONDUITS
 2. VZW DC POWER LEADS ARE TO BE LEFT COILED IN TEH BOTTOM OF THE HOFFMAN BOX AFTER CONNECTION THROUGH THE CIRCUIT BREAKERS
 3. VZW MM FIBER JUMPER IS TO BE LEFT COILED IN THE BOTTOM OF THE HOFFMAN BOX. AT&T END REQUIRES THE SC CONNECTOR

OUTDOOR RATED MM CABLE FROM CABINET TO HOFFMAN BOX PATCH PANEL WITH LC ON CABINET END AND SC ON HOFFMAN BOX END.

3 METER OUTDOOR RATED MM CABLE FROM HB PATCH PANEL TO AT&T CIENA. BOTH ENDS OF CABLE HAVE SC CONNECTORS.

verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE (561) 948-6367

Bowman
CONSULTING ENGINEERS, LANDSCAPE ARCHITECTS,
PLANNERS & DESIGNERS
3001 WOOD SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402 FAX: (503) 459-8427



SITE NAME: HENRI DE TONTI AR
SITE NUMBER: US-AR-5209
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
TAX MAP NUMBER: - PARCEL NUMBER: 830-37879-200
SOURCE OF TITLE: DEED BOOK - PAGE -
LATITUDE: 36° 10' 24.87" LONGITUDE: W 94° 16' 04.97"

REVISIONS		CHK	DATE	DESCRIPTION
0	JTL	JTL	05/20/24	CONSTRUCTION ISSUE
1	JTL	JTL	06/07/24	CONSTRUCTION ISSUE
2	JTL	JTL	07/08/24	CONSTRUCTION ISSUE

TITLE: HOFFMAN BOX REQUIREMENTS

SHEET: TD-3
WINNMS RAWLAND 08-12-2022

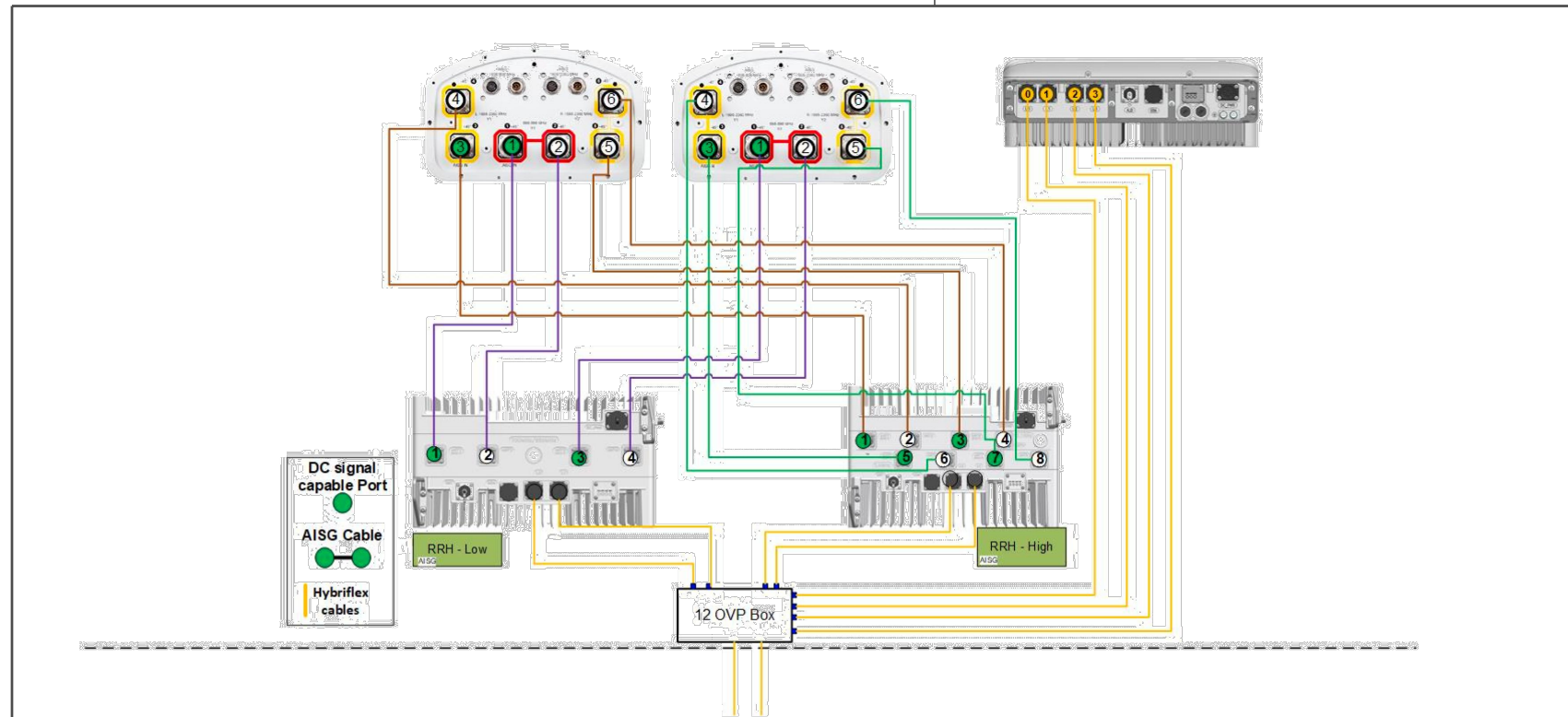
Project Details		Location Information	
Carrier Aggregation	N	Site Id	616647211
Ecip	N	Search Ring#	
Project Name	MACRO - CAPACITY	E-NodeB ID#	null
Project Alt Name	HENRI DE TONTI AR - NEW BUILD	PSLC#	634843
Project Id	2569368	Switch Name	North West Arkansas
Designed Sector Carrier 4G	15	Tower Type	
Designed Sector Carrier 5G	6	Site Type	MACRO
Additional Sector Carrier 4G	0	Street Address	1855 W Henri De Tonti Blvd
Additional Sector Carrier 5G	0	City	Springdale
Suffix	r5	State	AR
FP Solution Type & Tech Type	MCR_4G_700;5G_850;4G_850;4G_AWS;4G_AWS3;5G_L-Sub6;4G_PCS	Zip Code	72762
		County	Washington
		Latitude	36.173575/ 36° 10' 24.870"
		Longitude	-94.26804722/ 94° 16' 4.970"

Project Scope

****12/07/2023 RFDS refreshed to update the LS6 BW and change RRHs from Gen1 to Gen2 .NS
This NB project adds L-Sub6, 700/850-LTE, AWS1, AWS3, PCS1
* Install 320w RRH for low bands and 320w RRH for high bands..
* Install Hex-port RETs and configure all for 4Tx/4Rx.
* Install Hybrid cable
* Install High Capacity RayCap.
* Install LS6 RRH/ANT

ANTENNA NOTES:

- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH VERIZON RF ENGINEER.
- ANTENNA CENTERLINE HEIGHT IS ABOVE GROUND LEVEL (AGL).
- CONTRACTOR SHALL VERIFY ANTENNA TYPE, AZIMUTH, DOWNTILT AND ANTENNA NUMBER PER SECTOR WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- ALL PERSONNEL WORKING ON THE TOWER MUST COMPLY WITH VERIZON'S RF EMISSIONS GUIDELINE POLICY.
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE AND AZIMUTH.
- CONTRACTOR SHALL NOT INSTALL SHRINK WRAP UNTIL AFTER CABLES HAVE BEEN SWEEP. THE USE OF ALTERNATE GROUNDING MEANS (SUCH AS LYNCOLE XIT) SHALL COMPLY WITH O.C.E.I. CONSTRUCTION SPECIFICATIONS AND BUILDING PRACTICES.



Antenna Summary

700	850	1900	AWS	AWS3	L-Sub6	Make	Model	Center line	Tip Height	Azimuth	Install Type	Quantit
					5G	Samsung	MT6413-77A	190	191.2	20(91),140(92) 240(93)	PHYSICAL	3
LTE	LTE,5G	LTE	LTE	LTE		COMMSCOPE	NHH-65C-R2B	190	194	20(1),140(2),2 40(3),20(91),1 40(92),240(93)	PHYSICAL	6

Removed Antenna

700	850	1900	AWS	AWS3	L-Sub6	Make	Model	Center line	Tip Height	Azimuth	Install Type	Quantit
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Retained Antenna

700	850	1900	AWS	AWS3	L-Sub6	Make	Model	Center line	Tip Height	Azimuth	Install Type	Quantit
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Added: 9 Removed: 0 Retained: 0

Non Antenna Summary

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Install Type	Quantity
RRU	Tower			LTE	LTE		Samsung	B2/B66A RRH ORAN (RF4439d-25A)	PHYSICAL	3
Hybrid Cable	Tower	LTE	LTE,5G	LTE	LTE	5G	Huber-Suhner	MLC Hybrid 6x12 (6AWGx6) SMLCDx12	PHYSICAL	2
RRU	Tower					5G	Samsung	MT6413-77A	PHYSICAL	3
RRU	Tower	LTE	LTE,5G				Samsung	RF4461d-13A	PHYSICAL	3
HTTA Box	Tower	LTE	LTE,5G	LTE	LTE	5G	RAYCAP INC	RVZDC-6627-PF-48	PHYSICAL	1

Removed Non Antenna

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Install Type	Quantity
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Retained Non Antenna

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Install Type	Quantity
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Added: 12 Removed: 0 Retained: 0

REFERENCE ONLY

SITE NAME: HENRI DE TONTI AR-A
SITE NUMBER: 634843
SITE ADDRESS: 1855 W HENRI DE TONTI BLVD SPRINGDALE, AR, 72762
AREA: LEASE AREA = 5625 SF
PROPERTY OWNER: UPWARDS INVESTMENTS, LLC 1849 W HENRI DE TONTI BLVD TONTITOWN, AR 72704
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TITLE: RF DATA SHEET

SHEET: RF-1