

EXHIBIT A

DESCRIPTION OF PROPERTY

Property located in Chatham County, North Carolina

All that certain lot or parcel of land situate in Hadley Township, Chatham County, North Carolina and more particularly described as follows:

Tract 1: All that certain tract or parcel of land containing 38 acres, more or less, and being all of the property described in Deed recorded in Book 270 at Page 91, Chatham County Registry, save and except 2.00 acres, more or less, conveyed to Don E. Bush.

LESS AND EXCEPT that portion of property conveyed to Rhonda L. Nunn and Charles E. Nunn from Jerry R. Justice and Anne C. Justice by North Carolina General Warranty Deed dated March 18, 1998 and recorded April 3, 1998 in Deed Book 747, Page 700.

AND BEING a portion of the same property conveyed to Jerry R. Justice from Elva W. Justice by North Carolina General Warranty Deed dated September 13, 1995 and recorded September 29, 1995 in Deed Book 675, Page 451.

Tax Parcel No. 0010843

EXHIBIT B
SURVEY OF THE PREMISES
SEE ATTACHED

SURVEYOR'S NOTES:

1. NORTH ORIENTATION: North Carolina State Plane Coordinate System, NAD 83 (CORS) determined by GPS Survey
2. ELEVATION DATUM: NAVD88, relative to Continuously Operating Reference Station (CORS) Benchmark as noted hereon. Onsite benchmark is as shown hereon
3. This is a Tower Site Survey, made on the ground under the supervision of a Registered Land Surveyor. Date of field survey is 12-03-2019
4. Instruments Used: Topcon GTS 212 and Prism, Topcon Hiperlite Plus GPS, TDS Normad and/or Carlson Surveyor Data Collector.
5. Surveyor hereby states the Geoidetic Coordinates and the elevation shown for the centerline of the tower are accurate to within ± 15 feet horizontally and to within ± 3 feet vertically (FAA Accuracy Code 1A).
6. Survey shown hereon conforms to the Minimum Requirements as set forth by the State Board for a Class B Survey. Field traverse did not require adjustment.
7. Improvements (Utilities, Buildings, Trees, Fences, etc) not located, unless specifically shown hereon in the vicinity of surveyed property.
8. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown.
9. This survey was conducted for the purpose of a Tower Site Survey only, and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other similar entity. Survey as published is not intended to be suitable for recording as a Subdivision Plat
10. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when obtaining scaled data.
11. This survey is not valid without the original signature and the original seal of a State-licensed Land Surveyor, and is not complete without all sheets.
12. This survey does not constitute a complete boundary survey of the Parent Tract, or adjoining Parcels.
13. Title Examination was available at time of Survey.
14. FLOOD ZONE DATA: By graphic plotting only. Lessee's Premises and Easement(s) appear to lie within ZONE "X" per F.E.M.A Flood Insurance Rate Map Community Panel No.3710972400K dated 11/17/20017. Zone X: Areas of Minimal Flood Hazard

SURVEYOR'S CERTIFICATION:

To: Celco Partnership, d/b/a Verizon Wireless
 I, Donald Cordell, certify that this project was completed under my direct and responsible charge from an actual Ground Survey made under my supervision.

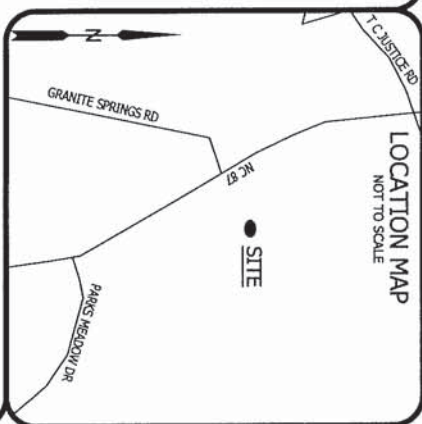


PROPOSED TOWER DATA

Latitude: 35° 47' 12.89" NORTH
 Longitude: 79° 14' 41.19" WEST
 Ground Elevation: 484.0 feet AMSL NAVD88
 CORS Benchmark: DL3891 NCLL

SURVEY RELEASE DATA

#	DETAILS	DATE	DRAWN	APP
0	Original Survey Issue	12-31-2019	DLH	DLC



LEGEND

- UTILITY POLE
- TELECOM JUNCTION
- R/W, ROW RIGHT-OF-WAY
- A U ACCESS/UTILITY
- ESMT EASEMENT
- POC POINT OF COMMENCEMENT
- POB POINT OF BEGINNING
- Sq R SQUARE FEET
- PAVEMENT EDGE
- UNPAVED ROAD EDGE
- FENCE
- STORMWATER PIPE
- DITCH
- TREE LINE
- 5' CONTOURS
- 1' CONTOURS
- DEED LINE
- TAX PARCEL BOUNDARY
- BOLTING EASEMENT
- ACCESS/UTILITY ESMT
- LESSEES PREMISES

PREPARED FOR
verizon
 CELCO PARTNERSHIP
 d/b/a Verizon Wireless

Professional Land Surveyor
 DONALD L. CORDELL
 2857 Camp Creek Road
 Murphy, NC 28906
 (828) 484-7058
 NC License No. L-3037

TOWER SITE SURVEY

SITE NAME:
LUTTERLOH
 Location Code: 431701
 NC Highway 87 North, Pittsboro, NC 27312
 Hadley Township, Chatham County, North Carolina

ISSUE NO.: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1

DRAWN BY: DLH
 CHECKED BY: TJS
 APPROVED BY: DLC

COVER SHEET
 SHEET 1 OF 5

PROPERTY INFORMATION

PARENT PARCEL

A. JERRY R. JUSTICE
 TAX PARCEL: 0010943
 DEED BOOK 675, PAGE 451

ADJOINING TAX PARCELS

B. LARRY F. JUSTICE HEIRS
 TAX PARCEL: 0010962
 DEED BOOK 675, PAGE 463

C. JERRY R. JUSTICE
 TAX PARCEL: 0010876
 DEED BOOK 675, PAGE 451

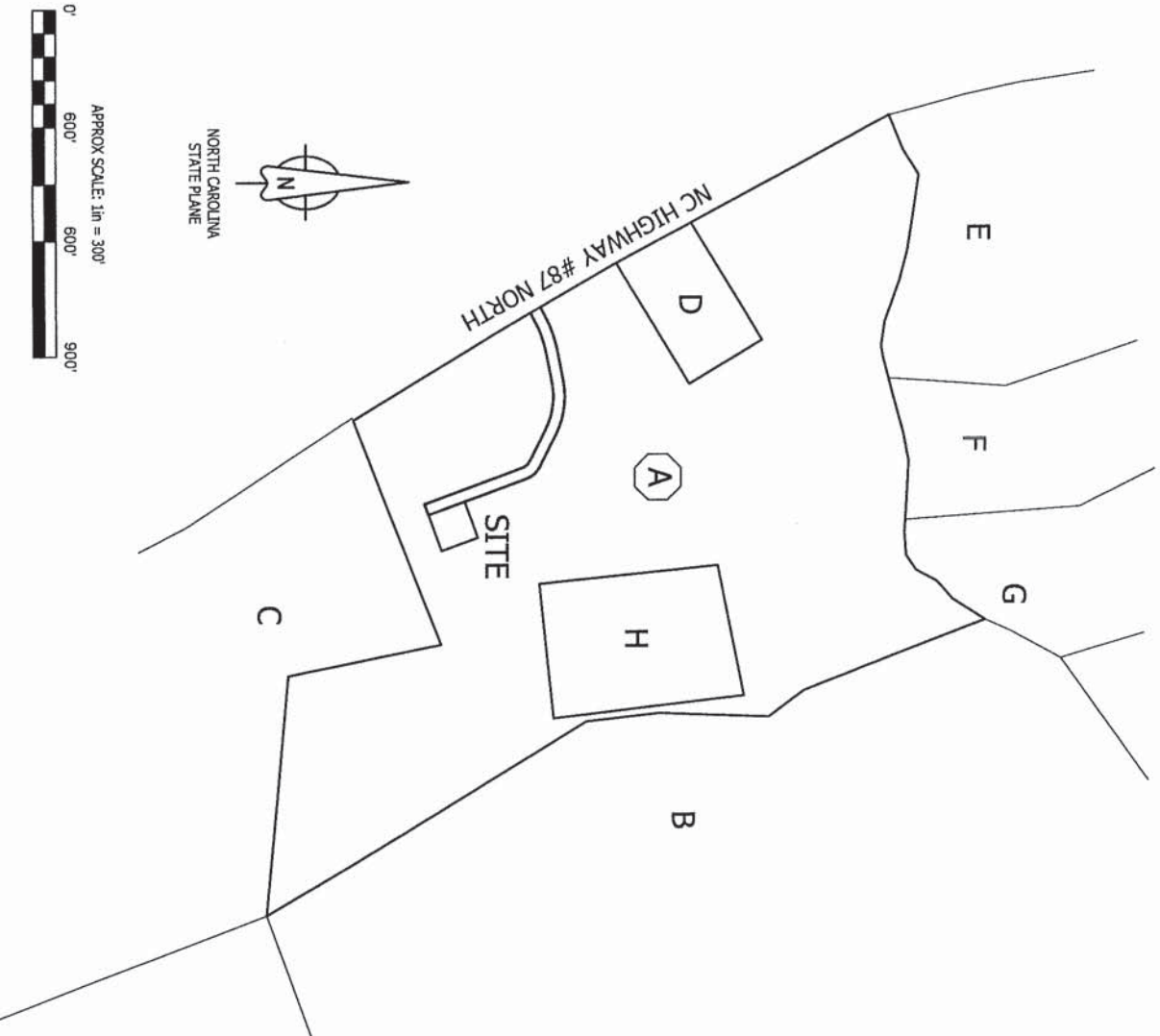
D. SHERILL LINDLEY ...
 TAX PARCEL: 0061957
 DEED BOOK 499, PAGE 542

E. GREGORY OLIVER ...
 TAX PARCEL: 0010818
 DEED BOOK 1891, PAGE 296
 PLAT BOOK 2003, PAGE 213

F. MICHAEL EDWARD STANO TR
 TAX PARCEL: 0080949
 DEED BOOK 2031, PAGE 0055
 PLAT BOOK 2003, PAGE 213

G. KITTRELL ANNE DESBON
 TAX PARCEL: 0080848
 DEED BOOK 1812, PAGE 980
 PLAT BOOK 2003, PAGE 213

H. RHONDA L. NUNN
 CHARLES E. NUNN
 TAX PARCEL: 0074285
 DEED BOOK 747, PAGE 700
 PLAT BOOK 98, PAGE 91



SURVEY & MAP CAVEATS:

Surveyed Data is as shown on Survey Map Sheets herein.
 This is not a Boundary Survey of Parent Tax Parcel or adjoining Parent Parcel Property lines are shown based on Tax Map Data, plats and/or Deeds.

DONALD L. CORDELL
 Professional Land Surveyor
 2857 Camp Creek Road
 Murphy, NC 28906
 (828) 494-7058
 NC License No. L-3037

PREPARED FOR

 CELCO PARTNERSHIP
 d/b/a/ Verizon Wireless

TOWER SITE SURVEY
 SITE NAME:
LUTTERLOH
 Location Code: 431701
 NC Highway 87 North, Pittsboro, NC 27312
 Hadley Township, Chatham County, North Carolina

ISSUE NO.: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO. 1
 DRAWN BY: DLH
 CHECKED BY: TJS
 APPROVED BY: DLC
OVERVIEW
 SHEET 2 OF 5



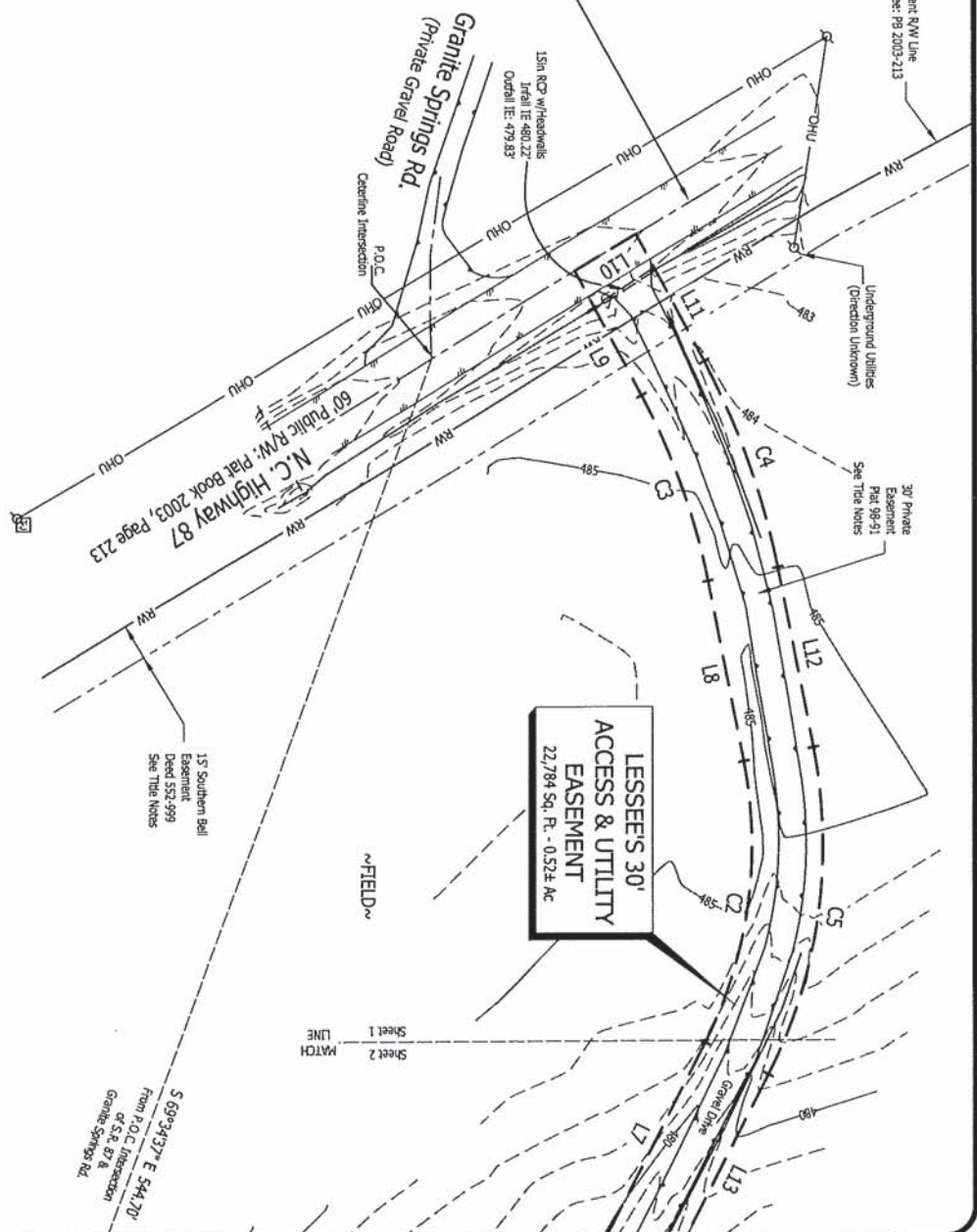
Southwestern Extent of Parent Parcel not Addressed herein (not clearly stated in available Deeds).
 Right of Way of NC Highway 87 is 60 feet per adjoining Plat information. R/W is assumed to exist per observed evidence. No R/W Agreement found.

LINE DATA TABLE

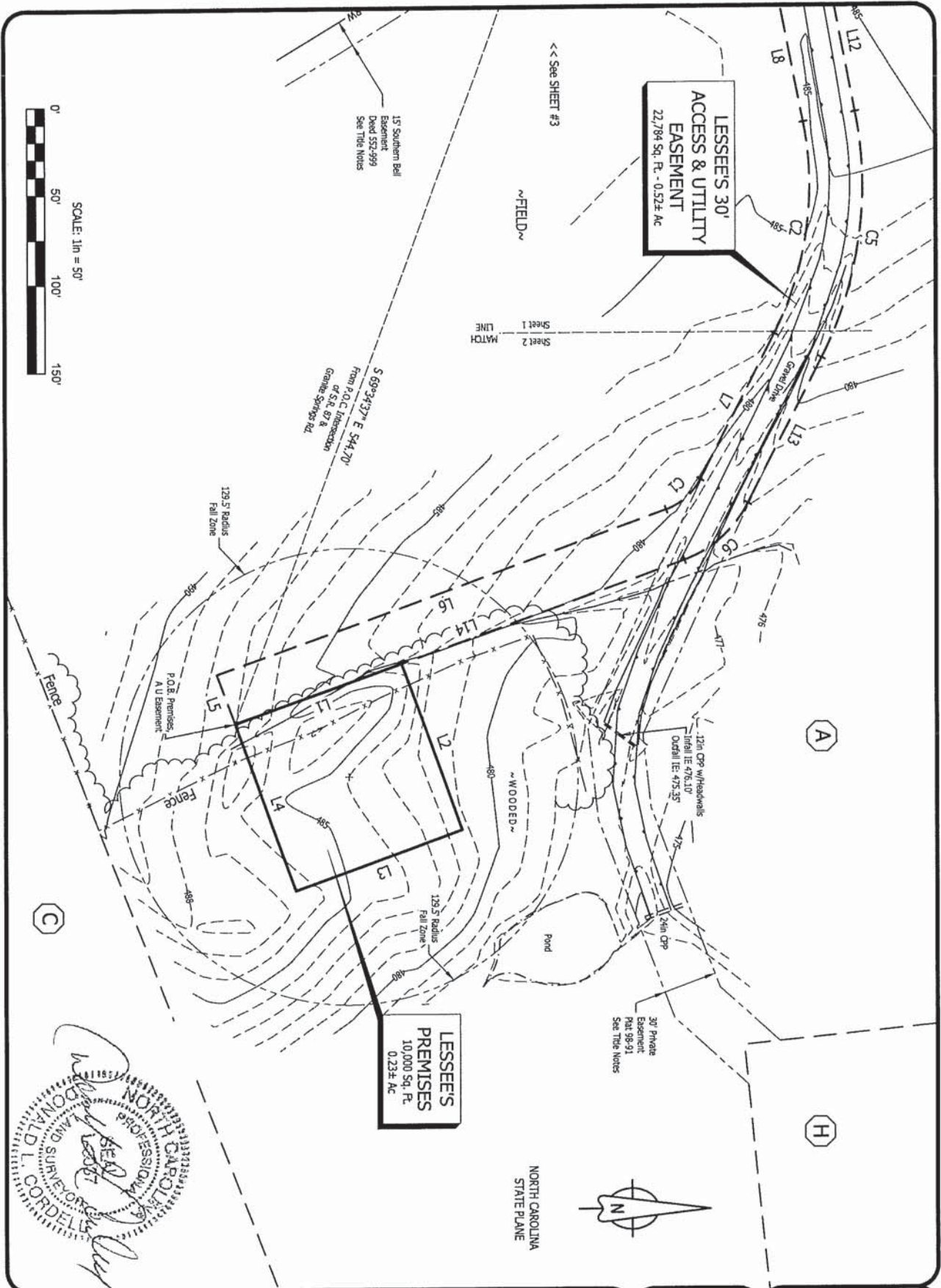
LINE	BEARING	DISTANCE
L1	N 19°58'34" W	100.00'
L2	N 70°01'26" E	100.00'
L3	S 19°58'34" E	100.00'
L4	S 70°01'26" W	100.00'
L5	S 70°01'26" W	30.00'
L6	N 19°58'34" W	270.05'
L7	N 63°06'12" W	92.84'
L8	S 78°56'03" W	77.87'
L9	S 61°59'03" W	59.30'
L10	N 31°12'03" W	30.05'
L11	N 61°59'03" E	60.97'
L12	N 78°56'03" E	77.87'
L13	S 63°06'12" E	92.84'
L14	S 19°58'34" E	270.05'

CURVE DATA TABLE

CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	35.00'	26.34'	13.83'	43°07'11"	N 41°32'10" W	25.72'
C2	185.00'	122.57'	63.63'	37°57'45"	N 82°05'04" W	120.34'
C3	283.91'	83.99'	42.30'	16°57'00"	S 70°27'33" W	83.68'
C4	313.91'	92.86'	46.77'	16°57'00"	N 70°27'33" E	92.53'
C5	215.00'	142.45'	73.95'	37°57'45"	S 82°05'04" E	139.86'
C6	65.00'	48.92'	25.68'	43°07'18"	S 41°32'13" E	47.77'



<p>ISSUE NO.: 0 ISSUE DATE: 12-31-2019 SEE ISSUE LIST, SHEET NO. 1</p>	<p>TOWER SITE SURVEY</p> <p>SITE NAME: LUTTERLOH Location Code: 431701 NC Highway 87 North, Pittsboro, NC 27312 Hadley Township, Chatham County, North Carolina</p>	<p>PREPARED FOR CELCO PARTNERSHIP d/b/a/ Verizon Wireless</p>	<p>PREPARED FOR DONALD L. CORDELL Professional Land Surveyor 2857 Camp Creek Road Murphy, NC 28906 (828) 494-7058 NC License No.: L-3037</p>
<p>DRAWN BY: DLH CHECKED BY: TJS APPROVED BY: DLC</p>	<p>SITE SURVEY SHEET 3 OF 5</p>		



DONALD L. CORDELL

ISSUE NO: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1
 DRAWN BY: DLH
 CHECKED BY: TJS
 APPROVED BY: DLC
 SITE SURVEY
 SHEET 4 OF 5

TOWER SITE SURVEY
 SITE NAME:
LUTTERLOH
 Location Code: 431701
 NC Highway 87 North, Pittsboro, NC 27312
 Hadley Township, Chatham County, North Carolina

PREPARED FOR

 CELCO PARTNERSHIP
 d/b/a/ Verizon Wireless

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 Professional Land Surveyor
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 Murphy, NC 28906
 (828) 484-7058
 NC License No: L-3037

LESSEES' PREMISES

Situated in the Hadley Township, Chatham County, North Carolina. Being a Lessee's Premises over and upon property now or formerly conveyed to Jerry R. Justice, of record in Deed Book 675, Page 451, in the Chatham County Registry, and being more particularly described as follows:

COMMENCE at the Centerline Intersection of North Carolina Highway 87 and Granite Springs Road;
Thence along a Chord Tie Line having a Bearing of S 69°34'37" E, a distance of 544.70 feet to the POINT OF BEGINNING;

Thence N 19°58'34" W, a distance of 100.00 feet;
Thence N 70°01'26" E, a distance of 100.00 feet;
Thence S 19°58'34" E, a distance of 100.00 feet;
Thence S 70°01'26" W, a distance of 100.00 feet to the POINT OF BEGINNING.

Said tract contains 0.23 Acres (10,000 Square Feet), more or less.

LESSEES 30' ACCESS & UTILITY EASEMENT

Situated in the Hadley Township, Chatham County, North Carolina. Being a Lessee's 30' Access and Utility Easement over and upon property now or formerly conveyed to Jerry R. Justice, of record in Deed Book 675, Page 451, in the Chatham County Registry, and being more particularly described as follows:

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Thence S 70°01'26" W, a distance of 30.00 feet;
Thence N 19°58'34" W, a distance of 270.05 feet;
Thence with a curve to the left with an arc length of 26.34 feet, with a radius of 35.00 feet, with a chord bearing of N 41°32'10" W, with a chord length of 25.72 feet;
Thence N 63°06'12" W, a distance of 92.84 feet;
Thence with a curve to the left with an arc length of 122.57 feet, with a radius of 183.00 feet, with a chord bearing of N 82°05'04" W, with a chord length of 120.34 feet;

Thence S 78°56'03" W, a distance of 77.87 feet;
Thence with a curve to the left with an arc length of 83.99 feet, with a radius of 283.91 feet, with a chord bearing of S 70°27'33" W, with a chord length of 83.68 feet;
Thence S 61°59'03" W, a distance of 59.30 feet to a point on the Centerline of aforesaid Highway;

Thence N 31°12'03" W, along said Line, a distance of 30.05 feet;
Thence N 61°59'03" E, leaving said Line, a distance of 60.97 feet;
Thence with a curve to the right with an arc length of 92.86 feet, with a radius of 313.91 feet, with a chord bearing of N 70°27'33" E, with a chord length of 92.53 feet;
Thence N 78°56'03" E, a distance of 77.87 feet;
Thence with a curve to the right with an arc length of 142.45 feet, with a radius of 215.00 feet, with a chord bearing of S 82°05'04" E, with a chord length of 139.86 feet;
Thence S 63°06'12" E, a distance of 92.84 feet;
Thence with a curve to the right with an arc length of 48.92 feet, with a radius of 65.00 feet, with a chord bearing of S 41°32'13" E, with a chord length of 47.77 feet;
Thence S 19°58'34" E, a distance of 270.05 feet to the POINT OF BEGINNING.

Said tract contains 0.52 Acres (22,784 Square Feet), more or less.



TITLE EXAMINATION

(Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2016 requirements, Section 6, C, ii., and is limited to determination of the extent of land, that Title Items may influence, if any. Surveyor may indicate where review by Title Attorney may be warranted.)

Reference: Report of Title, prepared by Fidelity National Title Insurance Company, Order No. 30327719, Issue Date: November 18, 2019.

Item 1: Taxes, not addressed by Survey.

Item 2: Right of Way Easement to Southern Bell Telephone and Telegraph Company, Deed 552-999; Said Deed conveys 15' wide easement for Utilities East of Highway 87 Right of Way. Location of easement plotted and shown. Influences Parent Parcel & Lessee's Easement as shown.

Item 3: Right of Way Easement to Southern Bell Telephone and Telegraph Company, Deed 553-4; Same easement as Item 2 herein, but for other lands of Justice (Parcel C heron).

Item 4: Matters as shown on Plat Book 98-91; Said Plat depicts Boundary of Charles E. Nunn and Rhonda L. Nunn (Parcel H heron). A "30' Private Easement" is plotted and shown, this easement connects NC Highway 87 to the Southeast Corner of the property of Nunn, across the Parent Parcel. Influences Parent Parcel & Lessee's Easement (which runs within a portion of said Private Easement as shown heron). Said Private Easement is described as "private"; "Exclusivity" or "Non-Exclusivity" is outside the scope of Survey analysis.

LEGAL DESCRIPTION OF PARENT PARCEL

Property located in Chatham County, North Carolina
All that certain lot or parcel of land situate in Hadley Township, Chatham County, North Carolina and more particularly described as follows:

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LESS AND EXCEPT that portion of property conveyed to Rhonda L. Nunn and Charles E. Nunn from Jerry R. Justice and Anne C. Justice by North Carolina General Warranty Deed dated March 18, 1998 and recorded April 3, 1998 in Deed Book 747, Page 700.

AND BEING a portion of the same property conveyed to Jerry R. Justice from Elva W. Justice by North Carolina General Warranty Deed dated September 13, 1995 and recorded September 29, 1995 in Deed Book 675, Page 451.

Tax Parcel No. 0010843

NOTE: Record description is provided only for Parent Parcel, being Tract 1 of Deed 675-451. Said Deed conveys additional lands, (Tract 2, being Parcel C heron, not addressed by Survey).

NOTE: Record description describes property in terms of "property described in Deed 270-91". Attention is directed to the fact that Page 91 of Deed Book 270 contains an additional, completely unrelated Deed that occupies the first part of Page 91. The lands referenced in above description appear to be those described in the Deed that begins on Page 91, and continues on Page 92 of said Book.

Professional Land Surveyor
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2857 Camp Creek Road
Murphy, NC 28906
(828) 484-7058
NC License No. L-3037

PREPARED FOR
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TOWER SITE SURVEY
SITE NAME:
LUTTERLOH
Location Code: 431701
NC Highway 87 North, Pittsboro, NC 27312
Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
ISSUE DATE: 12-31-2019
SEE ISSUE LIST, SHEET NO 1
DRAWN BY: DLH
CHECKED BY: TJS
APPROVED BY: DLC
SURVEYOR'S DESCRIPTIONS
SHEET 5 OF 5

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Thence S 19°58'34" E, a distance of 100.00 feet;
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Verizon-1430375-LutterlohLease1

Final Audit Report

2020-05-12

Created:	2020-05-11
By:	Charika Huyler (Charika.Huyler@VerizonWireless.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAN7f719e2iCvxu_Flr_EpGolg_CnP9b

"Verizon-1430375-LutterlohLease1" History

-  Document created by Charika Huyler (Charika.Huyler@VerizonWireless.com)
2020-05-11 - 8:58:28 PM GMT- IP address: 137.188.108.201
-  Document emailed to Eric A. Mann (eric.mann@verizonwireless.com) for signature
2020-05-11 - 8:59:27 PM GMT
-  Email viewed by Eric A. Mann (eric.mann@verizonwireless.com)
2020-05-12 - 12:05:15 PM GMT- IP address: 74.125.209.26
-  Document e-signed by Eric A. Mann (eric.mann@verizonwireless.com)
Signature Date: 2020-05-12 - 12:05:41 PM GMT - Time Source: server- IP address: 69.78.66.89
-  Signed document emailed to ralph.gibbs@verizonwireless.com, Charika Huyler (Charika.Huyler@VerizonWireless.com), Eric A. Mann (eric.mann@verizonwireless.com), and Lee Taylor (ltaylor@bakerdonelson.com)
2020-05-12 - 12:05:41 PM GMT



8921 RESEARCH DRIVE
CHARLOTTE, NC 28262

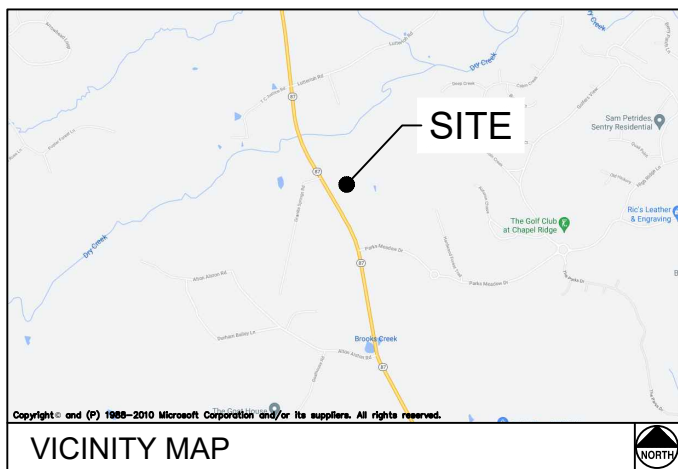
LUTTERLOH

SITE ADDRESS (E-911 VERIFIED)

0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY
LATITUDE: 35° 47' 12.89" N
LONGITUDE: 79° 14' 41.19" W
TAX/PIN #: AKPAR 10843
ZONING: RA

CHATHAM COUNTY SHERIFF'S DEPARTMENT
295 WEST STREET
PITTSBORO, NC 27312
PHONE: (919) 542-2811
ATTN.: CUSTOMER SERVICE

CHATHAM COUNTY FIRE DEPARTMENT
150 SANFORD RD
PITTSBORO, NC 27312
PHONE: (919) 542-4101
ATTN.: CUSTOMER SERVICE



VICINITY MAP

FROM CHARLOTTE OFFICE: GET ON I-85 N FROM RESEARCH DR AND W W.T.HARRIS BLVD FOR 1.4 MI; FOLLOW I-85 AND US-421 S TO US-64 E IN CHATHAM COUNTY. TAKE EXIT 171 FROM US-421 S FOR 107 MI; TURN LEFT ONTO US-64 E FOR 12.9 MI; TAKE EXIT 381 FOR NC-87 N TOWARD BURLINGTON FOR 0.3 MI; TURN LEFT ONTO NC-87 N FOR 3.9 MI; THEN THE DESTINATION WILL BE ON THE RIGHT.

DRIVING DIRECTIONS

JURISDICTION:
CHATHAM COUNTY

STATE:
NORTH CAROLINA

TOWER TYPE:
SELF-SUPPORT TOWER

TOWER HEIGHT:
255' (264' TO HIGHEST APPURTENANCE)

NUMBER OF CARRIERS:
0 EXISTING, 1 PROPOSED

USE:
PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED EQUIPMENT

FLOOD INFO
SITE IS LOCATED WITHIN FEMA FLOOD MAP AREA 3710972400K DATED 11/17/2017 WITHIN FLOOD ZONE X.

PROJECT SUMMARY

DEVELOPER
VERIZON WIRELESS
8921 RESEARCH DRIVE
CHARLOTTE, NC 28262
PHONE: (704) 577-8785
ATTN: MICHAEL HAVEN

POWER COMPANY
DUKE ENERGY PROGRESS
PHONE: (800) 452-2777
ATTN.: CUSTOMER SERVICE

PROPERTY OWNER
JERRY R. JUSTICE
2654 NC HIGHWAY 87 NORTH
PITTSBORO, NC 27312
PHONE: (919) 755-4914
ATTN.: JERRY JUSTICE

CONSULTANT
KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 545-6105
ATTN.: DAVID FRANKLIN

CONTACTS

SHEET NO.	SHEET TITLE
T1	COVER SHEET
T2	APPENDIX B - BUILDING CODE SUMMARY
--	SITE SURVEY (SHEET 1 OF 5)
--	SITE SURVEY (SHEET 2 OF 5)
--	SITE SURVEY (SHEET 3 OF 5)
--	SITE SURVEY (SHEET 4 OF 5)
--	SITE SURVEY (SHEET 5 OF 5)
N1	GENERAL NOTES
C0	OVERALL PARCEL
C1	OVERALL SITE PLAN
C2	SITE PLAN
C3	EQUIPMENT PAD LAYOUT
C4	EQUIPMENT RACK DETAIL - FRONT
C5	EQUIPMENT RACK DETAIL - REAR
C6	CONCRETE PAD FOUNDATION DETAILS
C7	FENCE, GATE, AND COMPOUND DETAILS
C8	GRADING AND EROSION CONTROL PLAN
C9	GRADING AND EROSION CONTROL DETAILS
C10	ACCESS ROAD DETAILS
C11	SITE SIGNAGE DETAILS
C12	WAVEGUIDE BRIDGE DETAILS
C13	ANTENNA AND TOWER ELEVATION DETAILS
L1	LANDSCAPING PLAN
E1	ELECTRICAL NOTES
E2	UTILITY SERVICE ROUTING PLAN
E3	OVERALL UTILITY ROUTING PLAN
E4	METER RACK DETAILS - FRONT
E4.1	METER RACK DETAILS - REAR
E5	ELECTRICAL SINGLE LINE DIAGRAM
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E6	PANEL SCHEDULE
E7	ELECTRICAL DETAILS
E8	GROUNDING NOTES
E9	GROUNDING PLAN
E10	GROUNDING SINGLE LINE DIAGRAM
E11	GROUNDING DETAILS
E12	GROUNDING DETAILS

SHEET INDEX

CHATHAM COUNTY PLANNING
80 EAST ST A
PITTSBORO, NC 27312
PHONE: (919) 542-8204
ATTN.: CUSTOMER SERVICE

PERMIT INFORMATION

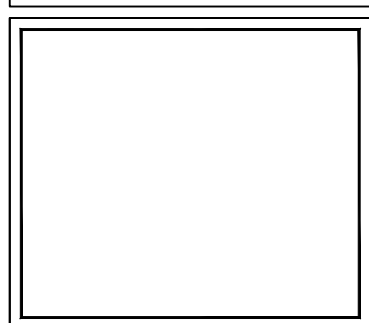


PROJECT INFORMATION:

SITE NAME:
LUTTERLOH
SITE No.: 431701
PROJECT #: 20192010936
0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY

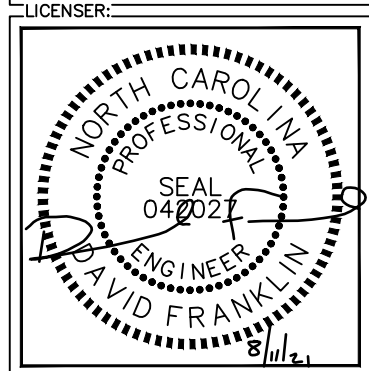
PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM
NC License F-0102



REV: _____ DATE: _____ ISSUED FOR: _____ BY: _____

REV	DATE	ISSUED FOR	BY
8			
7			
6			
5			
4			
3			
2	08/11/21	CONSTRUCTION	DMF
1	07/19/21	CONSTRUCTION	DMF
0	07/12/21	CONSTRUCTION	DMF



KHA PROJECT NUMBER:
013509278

DRAWN BY: _____ CHECKED BY: _____

WTB DMF

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
T1

K:\ATL_Wireless\000_Verizon\2021_Sites\Lutterloh\CAD\GB\ECor-GB.dwg 08/11/21 11:07 AM by: christopher.strange

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: VERIZON WIRELESS - LUTTERLOH Address: 0 NC 87 N, PITTSBORO, NC Zip Code 27312

CONTACT: DAVID FRANKLIN, P.E. (#042027) DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL

2018 NC BUILDING CODE: [X] New Building [] Addition [] Renovation [] 1st Time Interior Completion

2018 NC EXISTING BUILDING CODE: EXISTING: [] Prescriptive [] Repair [] Chapter 14 Alteration: [] Level I [] Level II [] Level III

CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3): TELECOMMUNICATIONS SITE RENOVAED: (date) PROPOSED OCCUPANCY(S) (Ch. 3): TELECOMMUNICATIONS SITE

RISK CATEGORY (Table 1604.5): Current: [] I [] II [] III [] IV Proposed: [] I [] II [] III [] IV

BASIC BUILDING DATA Construction Type: [] I-A [] II-A [] III-A [] IV [] V-A [] I-B [] II-B [] III-B [] V-B

Gross Building Area Table with columns for FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL

ALLOWABLE AREA Primary Occupancy Classification(s): Select one Select one Select one Select one Select one

Accessory Occupancy Classification(s): Incidental Uses (Table 509): Special Uses (Chapter 4 - List Code Sections): Special Provisions (Chapter 5 - List Code Sections):

Mixed Occupancy: [] No [] Yes Separation: Hr. Exception:

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2.4 AREA, (C) AREA FOR FRONTAGE INCREASE^{1,5}, (D) ALLOWABLE AREA PER STORY OR UNLIMITED^{2,3}

1 Frontage area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)

ALLOWABLE HEIGHT table with columns: BUILDING HEIGHT IN FEET (TABLE 504.2), ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE

FIRE PROTECTION REQUIREMENTS table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), REQ'D, RATING PROVIDED (W/ REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS

PERCENTAGE OF WALL OPENING CALCULATIONS table with columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: [] No [] Yes Exit Signs: [] No [] Yes Fire Alarm: [] No [] Yes

LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: [] Fire and/or smoke rated wall locations (Chapter 506.2)

ACCESSIBLE DWELLING UNITS (SECTION 1107) table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, # OF ACCESSIBLE SPACES PROVIDED

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) table with columns: USE, WATERCLOSETS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS

SPECIAL APPROVALS Special approval: Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below

ENERGY REQUIREMENTS The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Existing building envelope complies with code: [] No [] Yes (The remainder of this section is not applicable) Exempt Building: [] No [] Yes (Provide code or statutory reference):

THERMAL ENVELOPE (Prescriptive method only) Roof/Ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:

Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (each assembly)

Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: slab heated:

NOTE: SCOPE OF WORK INCLUDES INSTALLATION OF CAST IN PLACE CONCRETE PAD, PREFABRICATED EQUIPMENT CABINETS AND GENERATOR. NO NEW BUILDING BEING CONSTRUCTED.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS: Importance Factors: Snow (Ia) Seismic (Ia) Live Loads: Roof Mezzanine Floor Ground Snow Load: Basic Wind Speed Exposure Category

SEISMIC DESIGN CATEGORY: [] A [] B [] C [] D Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) [] I [] II [] III [] IV Spectral Response Acceleration Ss, % S1, %

LATERAL DESIGN CONTROL: Earthquake [] Wind [] SOIL BEARING CAPACITIES: Field Test (provide copy of test report) psf Presumptive Bearing capacity psf

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT Thermal Zone winter dry bulb: summer dry bulb: Interior design conditions winter dry bulb: summer dry bulb: relative humidity:

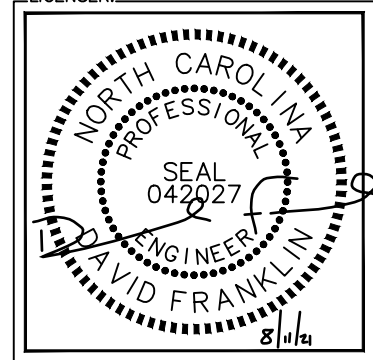
2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Energy Code [] Performance [] Prescriptive ASHRAE 90.1 [] Performance [] Prescriptive

verizon 8921 RESEARCH DRIVE CHARLOTTE, NORTH CAROLINA 28262 PROJECT INFORMATION: SITE NAME: LUTTERLOH SITE No.: 431701 PROJECT #: 20192010936

Kimley Horn 11720 AMBER PARK DRIVE, SUITE 600 ALPHARETTA, GA 30009 PHONE: 770-619-4280 WWW.KIMLEY-HORN.COM NC License F-0102

Table with columns: REV, DATE, ISSUED FOR, BY. Rows: 8, 7, 6, 5, 4, 3, 2 (08/11/21 CONSTRUCTION DMF), 1 (07/19/21 CONSTRUCTION DMF), 0 (07/12/21 CONSTRUCTION DMF)



KHA PROJECT NUMBER: 013509278 DRAWN BY: WTB CHECKED BY: DMF SHEET TITLE: APPENDIX B - BUILDING CODE SUMMARY SHEET NUMBER: T2

K:\ATL_Wireless\000_Verizon\2021_Sites\Lutterloh\2021_Sites\Lutterloh\CAD\GB\ECor\GB.dwg by: christopher.strange 08/11/21 11:07 AM

SURVEYOR'S NOTES:

1. NORTH ORIENTATION: North Carolina State Plane Coordinate System, NAD 83 (CORS), determined by GPS Survey
2. ELEVATION DATUM: NAVD88, relative to Continuously Operating Reference Station (CORS) Benchmark as noted hereon. Onsite benchmark is as shown hereon
3. This is a Tower Site Survey, made on the ground under the supervision of a Registered Land Surveyor. Date of field survey is 12-03-2019
4. Instruments Used: Topcon GTS 212 and Prism, Topcon Hiperlite Plus GPS, TDS Nomad and/or Carlson Surveyor Data Collector.
5. Surveyor hereby states the Geodetic Coordinates and the elevation shown for the centerline of the tower are accurate to within ± 15 feet horizontally and to within ± 3 feet vertically (FAA Accuracy Code 1A).
6. Survey shown hereon conforms to the Minimum Requirements as set forth by the State Board for a Class B Survey. Field traverse did not require adjustment.
7. Improvements (Utilities, Buildings, Trees, Fences, etc) not located, unless specifically shown hereon in the vicinity of surveyed property.
8. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown.
9. This survey was conducted for the purpose of a Tower Site Survey only, and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other similar entity. Survey as published is not intended to be suitable for recording as a Subdivision Plat
10. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when obtaining scaled data.
11. This survey is not valid without the original signature and the original seal of a State-Licensed Land Surveyor, and is not complete without all sheets.
12. This survey does not constitute a complete boundary survey of the Parent Tract, or adjoining Parcels.
13. Title Examination was available at time of Survey.
14. FLOOD ZONE DATA: By graphic plotting only, Lessee's Premises and Easement(s) appear to lie within ZONE "X" per F.E.M.A Flood Insurance Rate Map Community Panel No.3710972400K dated 11/17/20017. Zone X: Areas of Minimal Flood Hazard

SURVEYOR'S CERTIFICATION:

To: Celco Partnership, d/b/a/ Verizon Wirelss:
 I, Donald Cordell, certify that this project was completed under my direct and responsible charge from an actual Ground Survey made under my supervision.

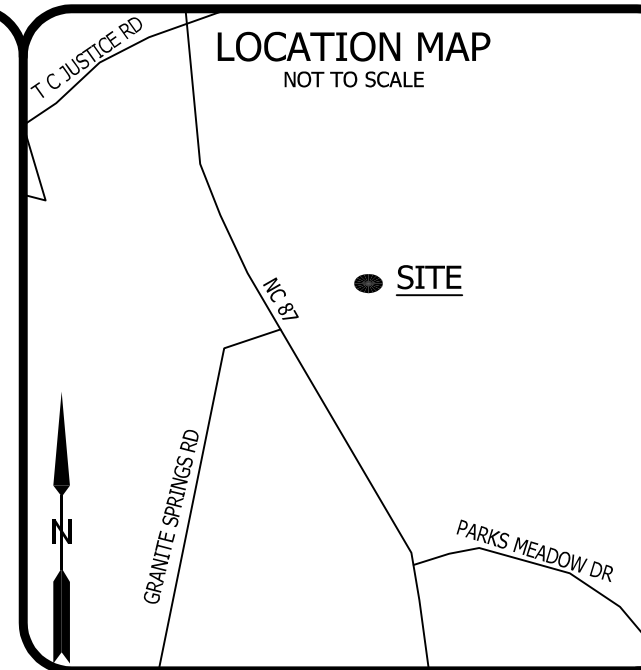


PROPOSED TOWER DATA

Latitude: 35° 47' 12.89" NORTH
Longitude: 79° 14' 41.19" WEST
Ground Elevation: 484.0 feet AMSL NAVD88
CORS Benchmark: DL3891 NCJL

SURVEY RELEASE DATA

#	DETAILS	DATE	DRAWN	APP
0	Original Survey Issue	12-31-2019	DLH	DLC



LEGEND

- ⊗ UTILITY POLE
- ⊠ TELECOM JUNCTION
- R/W, ROW RIGHT-OF-WAY
- A U ACCESS/UTILITY
- ESMT EASEMENT
- POC POINT OF COMMENCEMENT
- POB POINT OF BEGINNING
- Sq Ft SQUARE FEET

- PAVEMENT EDGE
- UNPAVED ROAD EDGE
- x—x—x— FENCE
- == STORMWATER PIPE
- - - - DITCH
- ~ ~ ~ ~ TREE LINE
- 5' CONTOURS
- - - - 1' CONTOURS
- - - - DEED LINE
- - - - TAX PARCEL BOUNDARY
- - - - EXISTING EASEMENT
- - - - ACCESS/UTILITY ESMT
- LESSEE'S PREMISES

DONALD L. CORDELL
 Professional Land Surveyor
 2857 Camp Creek Road
 Murphy, NC 28906
 (828) 494-7058
 NC License No: L-3037

PREPARED FOR
verizon
 CELLCO PARTNERSHIP
 d/b/a/ Verizon Wireless

TOWER SITE SURVEY
 SITE NAME:
LUTTERLOH
 Location Code: 431701
 NC Highway 87 North, Pittsboro, NC 27312
 Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1
 DRAWN BY: DLH
 CHECKED BY: TLS
 APPROVED BY: DLC

COVER SHEET
 SHEET 1 OF 5

PROPERTY INFORMATION

PARENT PARCEL

A. JERRY R. JUSTICE
 TAX PARCEL: 0010843
 DEED BOOK 675, PAGE 451

ADJOINING TAX PARCELS

B. LARRY F. JUSTICE HEIRS
 TAX PARCEL: 0010862
 DEED BOOK 675, PAGE 463

C. JERRY R. JUSTICE
 TAX PARCEL: 0010876
 DEED BOOK 675, PAGE 451

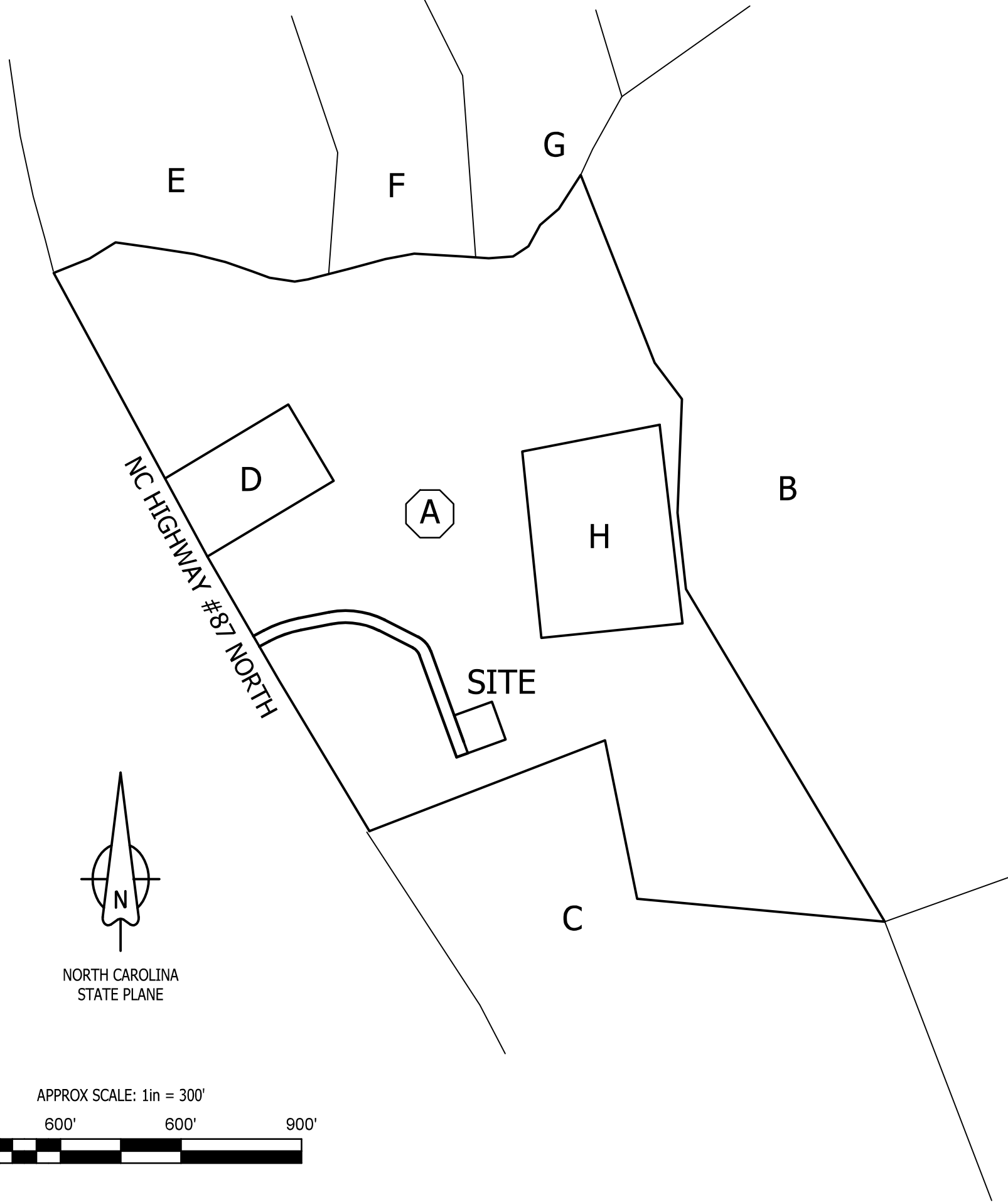
D. SHERRILL LINDLEY ...
 TAX PARCEL: 0061957
 DEED BOOK 499, PAGE 542

E. GREGORY OLIVER ...
 TAX PARCEL: 0010818
 DEED BOOK 1891, PAGE 296
 PLAT BOOK 2003, PAGE 213

F. MICHAEL EDWARD STANO TR
 TAX PARCEL: 0080649
 DEED BOOK 2031, PAGE 0055
 PLAT BOOK 2003, PAGE 213

G. KITTRELL ANNE DESBON
 TAX PARCEL: 0080648
 DEED BOOK 1812, PAGE 980
 PLAT BOOK 2003, PAGE 213

H. RHONDA L. NUNN
 CHARLES E. NUNN
 TAX PARCEL: 0074285
 DEED BOOK 747, PAGE 700
 PLAT BOOK 98, PAGE 91



NORTH CAROLINA
 STATE PLANE

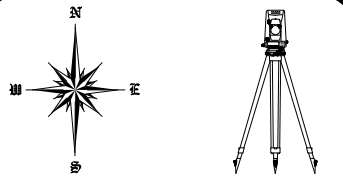
APPROX SCALE: 1in = 300'



SURVEY & MAP CAVEATS:

Surveyed Data is as shown on Survey Map Sheets herein.

This is not a Boundary Survey of Parent Tax Parcel or adjoining. Parent Parcel Property lines are shown based on Tax Map Data, Plats and/or Deeds.



DONALD L. CORDELL
 Professional Land Surveyor
 2857 Camp Creek Road
 Murphy, NC 28906
 (828) 494-7058
 NC License No: L-3037

PREPARED FOR



CELLCO PARTNERSHIP
 d/b/a/ Verizon Wireless

TOWER SITE SURVEY

SITE NAME:

LUTTERLOH

Location Code: 431701

NC Highway 87 North, Pittsboro, NC 27312

Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1

DRAWN BY: DLH
 CHECKED BY: TLS
 APPROVED BY: DLC

OVERVIEW

SHEET 2 OF 5



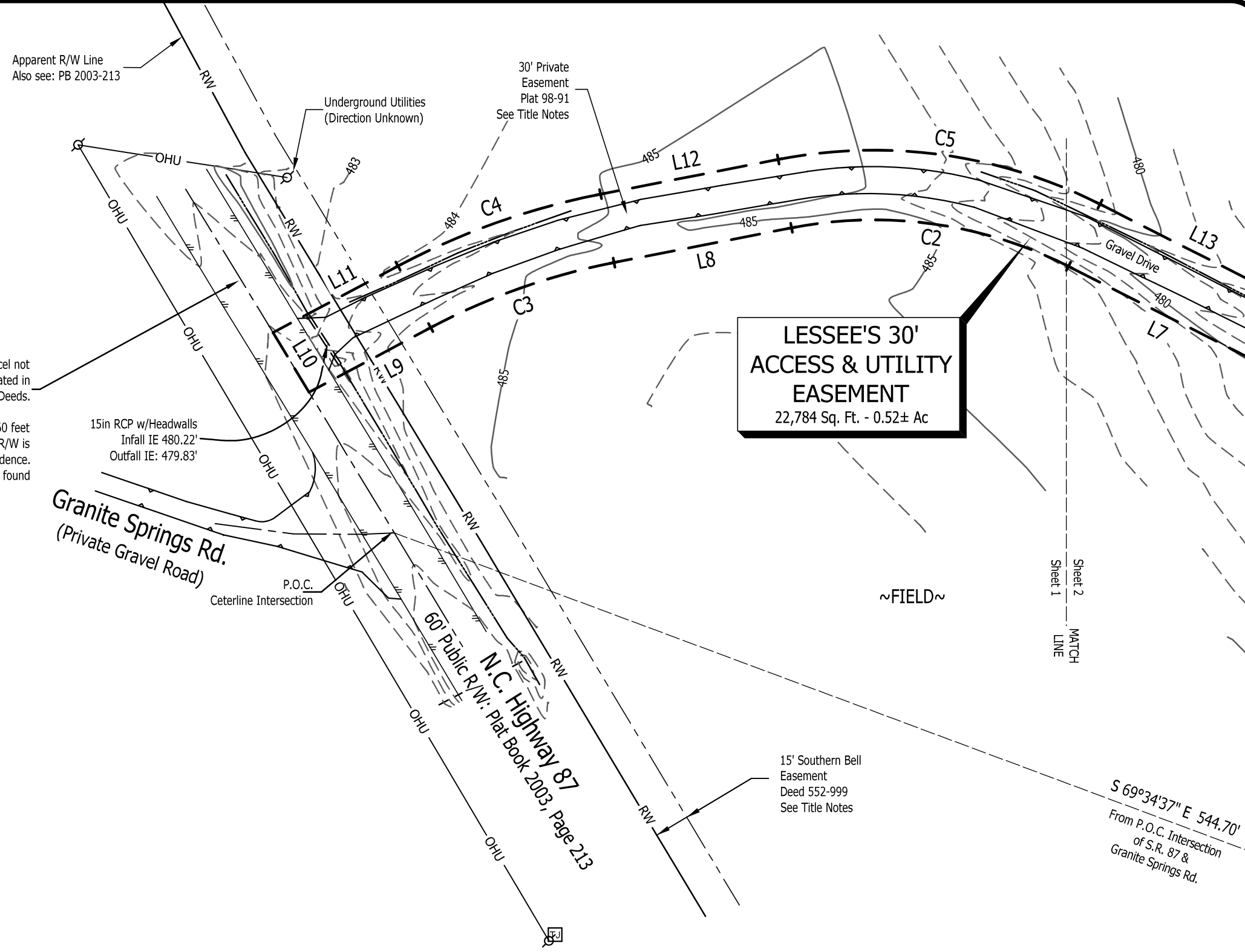

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 2857 Camp Creek Road
 Murphy, NC 28906
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PREPARED FOR

 CELLCO PARTNERSHIP
 d/b/a/ Verizon Wireless

TOWER SITE SURVEY
 SITE NAME:
LUTTERLOH
 Location Code: 431701
 NC Highway 87 North, Pittsboro, NC 27312
 Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1
 DRAWN BY: DLH
 CHECKED BY: TLS
 APPROVED BY: DLC
SITE SURVEY
 SHEET 3 OF 5

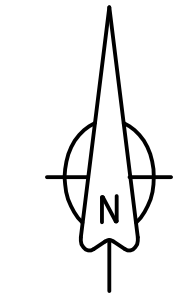


Southwestern Extent of Parent Parcel not Addressed herein (not clearly stated in available Deeds).

Right of Way of NC Highway 87 is 60 feet per adjoining Plat information. R/W is assumed to exist per observed evidence. No R/W Agreement found

15in RCP w/Headwalls
 Infall IE 480.22'
 Outfall IE: 479.83'

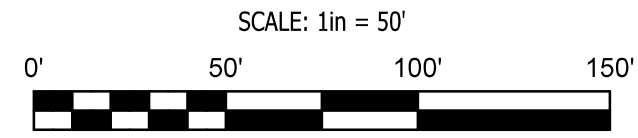
**LESSEE'S 30'
 ACCESS & UTILITY
 EASEMENT**
 22,784 Sq. Ft. - 0.52± Ac

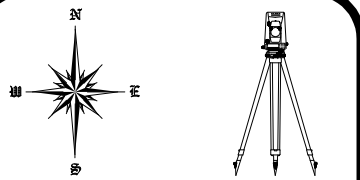


NORTH CAROLINA
 STATE PLANE

LINE DATA TABLE		
LINE	BEARING	DISTANCE
L1	N 19°58'34" W	100.00'
L2	N 70°01'26" E	100.00'
L3	S 19°58'34" E	100.00'
L4	S 70°01'26" W	100.00'
L5	S 70°01'26" W	30.00'
L6	N 19°58'34" W	270.05'
L7	N 63°06'12" W	92.84'
L8	S 78°56'03" W	77.87'
L9	S 61°59'03" W	59.30'
L10	N 31°12'03" W	30.05'
L11	N 61°59'03" E	60.97'
L12	N 78°56'03" E	77.87'
L13	S 63°06'12" E	92.84'
L14	S 19°58'34" E	270.05'

CURVE DATA TABLE						
CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING	CHORD LEN
C1	35.00'	26.34'	13.83'	43°07'11"	N 41°32'10" W	25.72'
C2	185.00'	122.57'	63.63'	37°57'45"	N 82°05'04" W	120.34'
C3	283.91'	83.99'	42.30'	16°57'00"	S 70°27'33" W	83.68'
C4	313.91'	92.86'	46.77'	16°57'00"	N 70°27'33" E	92.53'
C5	215.00'	142.45'	73.95'	37°57'45"	S 82°05'04" E	139.86'
C6	65.00'	48.92'	25.68'	43°07'18"	S 41°32'13" E	47.77'



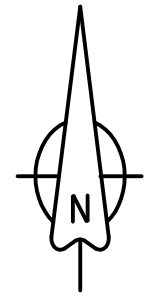


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PREPARED FOR



CELLCO PARTNERSHIP
 d/b/a/ Verizon Wireless



NORTH CAROLINA
 STATE PLANE

TOWER SITE SURVEY

SITE NAME:

LUTTERLOH

Location Code: 431701

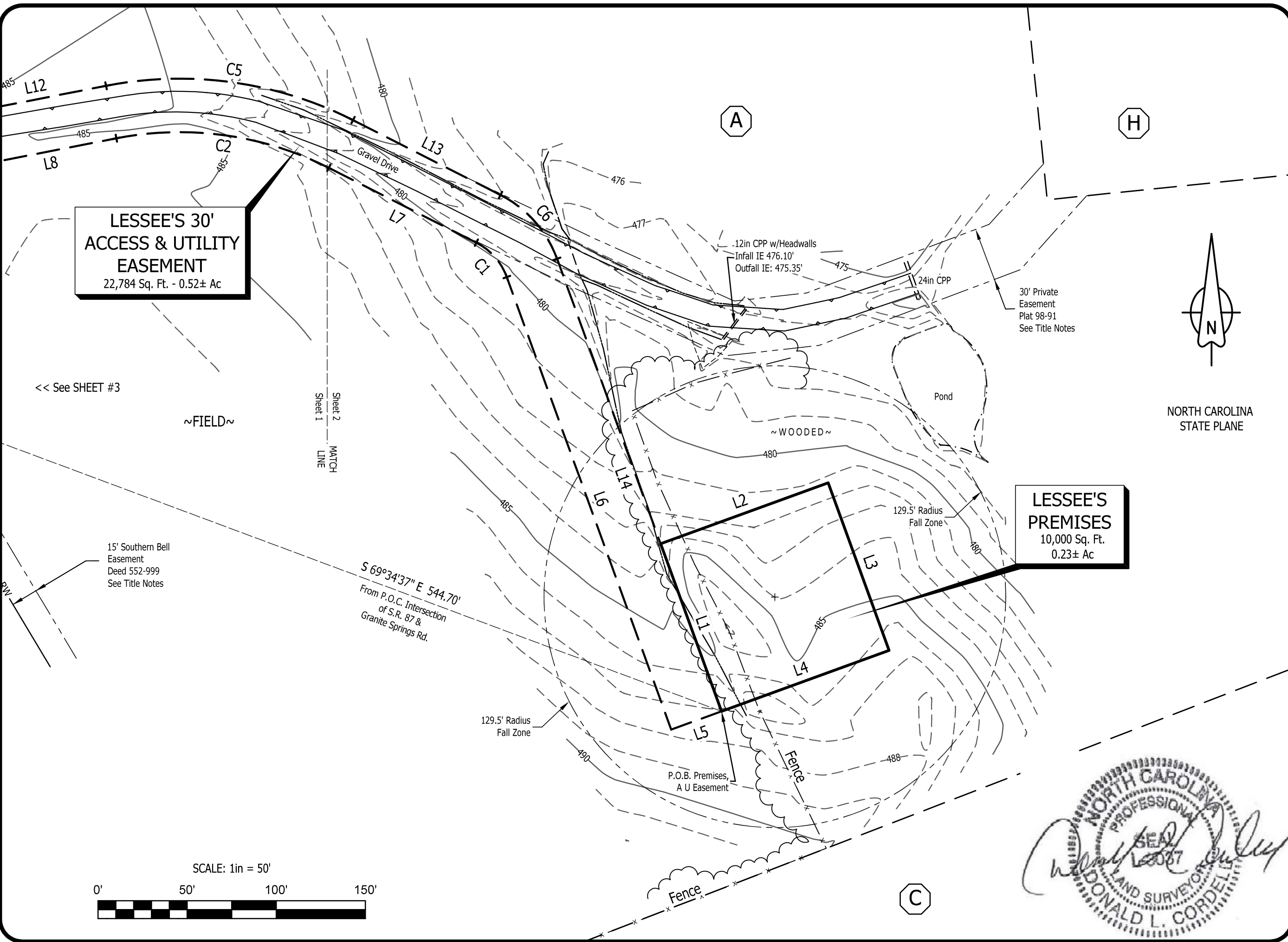
NC Highway 87 North, Pittsboro, NC 27312

Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
 ISSUE DATE: 12-31-2019
 SEE ISSUE LIST, SHEET NO 1

DRAWN BY: DLH
 CHECKED BY: TLS
 APPROVED BY: DLC

SITE SURVEY
 SHEET 4 OF 5



**LESSEE'S 30'
 ACCESS & UTILITY
 EASEMENT**
 22,784 Sq. Ft. - 0.52± Ac

**LESSEE'S
 PREMISES**
 10,000 Sq. Ft.
 0.23± Ac

15' Southern Bell
 Easement
 Deed 552-999
 See Title Notes

<< See SHEET #3

~FIELD~

Sheet 2
 MATCH
 Sheet 1

S 69°34'37" E 544.70'
 From P.O.C. Intersection
 of S.R. 87 &
 Granite Springs Rd.

129.5' Radius
 Fall Zone

129.5' Radius
 Fall Zone

P.O.B. Premises,
 A U Easement

30' Private
 Easement
 Plat 98-91
 See Title Notes

SCALE: 1in = 50'



LESSEE'S PREMISES

Situated in the Hadley Township, Chatham County, North Carolina. Being a Lessee's Premises over and upon property now or formerly conveyed to Jerry R. Justice, of record in Deed Book 675, Page 451, in the Chatham County Registry, and being more particularly described as follows:

COMMENCE at the Centerline Intersection of North Carolina Highway 87 and Granite Springs Road;
Thence along a Chord Tie Line having a Bearing of S 69°34'37" E, a distance of 544.70 feet to the POINT OF BEGINNING;

Thence N 19°58'34" W, a distance of 100.00 feet;
Thence N 70°01'26" E, a distance of 100.00 feet;
Thence S 19°58'34" E, a distance of 100.00 feet;
Thence S 70°01'26" W, a distance of 100.00 feet to the POINT OF BEGINNING.

Said tract contains 0.23 Acres (10,000 Square Feet), more or less.

LESSEE'S 30' ACCESS & UTILITY EASEMENT

Situated in the Hadley Township, Chatham County, North Carolina. Being a Lessee's 30' Access and Utility Easement over and upon property now or formerly conveyed to Jerry R. Justice, of record in Deed Book 675, Page 451, in the Chatham County Registry, and being more particularly described as follows:

COMMENCE at the Centerline Intersection of North Carolina Highway 87 and Granite Springs Road;
Thence along a Chord Tie Line having a Bearing of S 69°34'37" E, a distance of 544.70 feet to the POINT OF BEGINNING;

Thence S 70°01'26" W, a distance of 30.00 feet;
Thence N 19°58'34" W, a distance of 270.05 feet;
Thence with a curve to the left with an arc length of 26.34 feet, with a radius of 35.00 feet, with a chord bearing of N 41°32'10" W, with a chord length of 25.72 feet;
Thence N 63°06'12" W, a distance of 92.84 feet;
Thence with a curve to the left with an arc length of 122.57 feet, with a radius of 185.00 feet, with a chord bearing of N 82°05'04" W, with a chord length of 120.34 feet;
Thence S 78°56'03" W, a distance of 77.87 feet;
Thence with a curve to the left with an arc length of 83.99 feet, with a radius of 283.91 feet, with a chord bearing of S 70°27'33" W, with a chord length of 83.68 feet;
Thence S 61°59'03" W, a distance of 59.30 feet to a point on the Centerline of aforesaid Highway;
Thence N 31°12'03" W, along said Line, a distance of 30.05 feet;
Thence N 61°59'03" E, leaving said Line, a distance of 60.97 feet;
Thence with a curve to the right with an arc length of 92.86 feet, with a radius of 313.91 feet, with a chord bearing of N 70°27'33" E, with a chord length of 92.53 feet;
Thence N 78°56'03" E, a distance of 77.87 feet;
Thence with a curve to the right with an arc length of 142.45 feet, with a radius of 215.00 feet, with a chord bearing of S 82°05'04" E, with a chord length of 139.86 feet;
Thence S 63°06'12" E, a distance of 92.84 feet;
Thence with a curve to the right with an arc length of 48.92 feet, with a radius of 65.00 feet, with a chord bearing of S 41°32'13" E, with a chord length of 47.77 feet;
Thence S 19°58'34" E, a distance of 270.05 feet to the POINT OF BEGINNING.

Said tract contains 0.52 Acres (22,784 Square Feet), more or less.



TITLE EXAMINATION

(Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2016 requirements, Section 6. C. ii., and is limited to determination of the extent of land, that Title Items may influence, if any. Surveyor may indicate where review by Title Attorney may be warranted.)

Reference: Report of Title, prepared by Fidelity National Title Insurance Company, Order No. 30327719, Issue Date: November 18, 2019:

Item 1: Taxes, not addressed by Survey.

Item 2: Right of Way Easement to Southern Bell Telephone and Telegraph Company, Deed 552-999: Said Deed conveys 15' wide easement for Utilities East of Highway 87 Right of Way. Location of easement plotted and shown. Influences Parent Parcel & Lessee's Easement as shown.

Item 3: Right of Way Easement to Southern Bell Telephone and Telegraph Company, Deed 553-4: Same easement as Item 2 herein, but for other lands of Justice (Parcel C hereon).

Item 4: Matters as shown on Plat Book 98-91; Said Plat depicts Boundary of Charles E. Nunn and Rhonda L. Nunn (Parcel H hereon). A "30' Private Easement" is plotted and shown, this easement connects NC Highway 87 to the Southeast Corner of the property of Nunn, across the Parent Parcel. Influences Parent Parcel & Lessee's Easement (which runs within a portion of said Private Easement as shown hereon. Said Private Easement is described as "private": "Exclusivity" or Non-Exclusivity" is outside the scope of Survey analysis.

LEGAL DESCRIPTION OF PARENT PARCEL

Property located in Chatham County, North Carolina
All that certain lot or parcel of land situate in Hadley Township, Chatham County, North Carolina and more particularly described as follows:

Tract 1: All that certain tract or parcel of land containing 38 acres, more or less, and being all of the property described in Deed recorded in Book 270 at Page 91, Chatham County Registry, save and except 2.00 acres, more or less, conveyed to Don E. Bush.

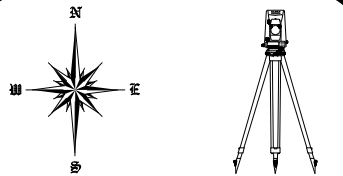
LESS AND EXCEPT that portion of property conveyed to Rhonda L. Nunn and Charles E. Nunn from Jerry R. Justice and Anne C. Justice by North Carolina General Warranty Deed dated March 18, 1998 and recorded April 3, 1998 in Deed Book 747, Page 700.

AND BEING a portion of the same property conveyed to Jerry R. Justice from Elva W. Justice by North Carolina General Warranty Deed dated September 13, 1995 and recorded September 29, 1995 in Deed Book 675, Page 451.

Tax Parcel No. 0010843

NOTE: Record description is provided only for Parent Parcel, being Tract 1 of Deed 675-451. Said Deed conveys additional lands, (Tract 2, being Parcel C hereon, not addressed by Survey).

NOTE: Record description describes property in terms of "property described in Deed 270-91". Attention is directed to the fact that Page 91 of Deed Book 270 contains an additional, completely unrelated Deed that occupies the first part of Page 91. The lands referenced in above description appear to be those described in the Deed that begins on Page 91, and continues on Page 92 of said Book.



DONALD L. CORDELL
Professional Land Surveyor
2857 Camp Creek Road
Murphy, NC 28906
(828) 494-7058
NC License No: L-3037

PREPARED FOR



CELLCO PARTNERSHIP
d/b/a/ Verizon Wireless

TOWER SITE SURVEY

SITE NAME:

LUTTERLOH

Location Code: 431701

NC Highway 87 North, Pittsboro, NC 27312

Hadley Township, Chatham County, North Carolina

ISSUE NO: 0
ISSUE DATE: 12-31-2019
SEE ISSUE LIST, SHEET NO 1

DRAWN BY: DLH
CHECKED BY: TLS
APPROVED BY: DLC

**SURVEYOR'S
DESCRIPTIONS
SHEET 5 OF 5**

1.00 GENERAL NOTES

- 1.01 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- 1.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK. WHERE THERE IS A CONFLICT BETWEEN DRAWING AND VERIZON SPECIFICATIONS, THE VERIZON PROJECT ENGINEER SHOULD BE CONTACTED FOR CLARIFICATION.
- 1.03 ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER.
- 1.04 CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- 1.05 WAVEGUIDE BRIDGE AND EQUIPMENT CABINETS ARE SHOWN FOR REFERENCE ONLY. REFER TO SEPARATE DRAWINGS FOR SPECIFIC INFORMATION.
- 1.06 ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FT. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.
- 1.07 THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE PLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. NOTIFY ENGINEER OR PROJECT MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS, IF AVAILABLE, FROM VERIZON PROJECT MANAGER TO CONFIRM COAX ROUTING AND ANTENNA MOUNT INFORMATION.
- 1.08 THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING, SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 1.09 UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE EXISTING ACCESS ROAD AND COMPOUND GRAVEL AREAS. ANY NEW FILL MATERIALS SHALL BE COMPACTED.
- 1.10 THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND SHALL REQUEST A VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THEIR UNDERGROUND UTILITIES AND WHERE THEY MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT WILL BE REQUIRED. TO NOTIFY "NORTH CAROLINA 811" 48 HOURS IN ADVANCE OF PERFORMING ANY WORK BY CALLING THE TOLL FREE NUMBER (800) 632-4949 (OR 811). ANY UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER.
- 1.11 CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- 1.12 CONTRACTOR TO PROVIDE STYMIE LOCK OR EQUIVALENT AS APPROVED BY VERIZON PROJECT MANAGER.
- 1.13 CONTRACTOR TO PROVIDE ANY NECESSARY SIGNAGE PER VERIZON PROJECT MANAGER'S INSTRUCTIONS. SEE DETAIL ON SHEET C11.

2.00 EQUIPMENT FOUNDATION NOTES

- 2.01 FOUNDATIONS ARE DESIGNED FOR A PRESUMPTIVE ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. CONTRACTOR SHALL VERIFY SOIL CONDITIONS AND BEARING CAPACITY PRIOR TO CONSTRUCTION.
- 2.02 EXCAVATE A MINIMUM 18" BELOW PROPOSED EQUIPMENT FOUNDATIONS OF EXPANSIVE, ORGANIC, UNCONSOLIDATED OR OTHERWISE UNACCEPTABLE MATERIAL AND REPLACE WITH WELL-COMPACTED MATERIAL ACCEPTABLE TO VERIZON.
- 2.03 CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION. COORDINATE ALL RELOCATIONS WITH THE PROPERTY OWNER.
- 2.04 CONTRACTOR TO CUT/FILL EXISTING COMPOUND SUBSOIL TO PROVIDE AN AREA AS LEVEL AS POSSIBLE FOR THE EQUIPMENT FOUNDATIONS. ALL FILL AREAS ARE TO BE FILLED WITH SUITABLE MATERIALS. FILL MATERIALS ARE TO BE PLACED, COMPACTED, AND TESTED IN MAXIMUM LAYERS OF 8". COMPACTION OF ALL FILL MATERIAL SHALL ACHIEVE 95 PERCENT OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 698. ALL TESTS MUST MEET THE MINIMUM SPECIFIED SOIL BEARING CAPACITY. COMPACTION TESTING IS BY THE GEOTECHNICAL TESTING COMPANY DESIGNATED FOR THE PROJECT. SCHEDULING AND COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. REPORTS OF ALL TESTING ARE TO BE PROMPTLY DELIVERED OR FAXED TO THE VERIZON WIRELESS PROJECT MANAGER.
- 2.05 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION TO ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 2.06 CONCRETE SHALL HAVE A SLUMP BETWEEN 3" AND 6".
- 2.07 FIBERS FOR CONCRETE SHALL BE FIBERMESH 650, 100 PERCENT VIRGIN POLYPROPYLENE FIBRILLATED FIBERS, e3 PATENTED TECHNOLOGY PATENTED TECHNOLOGY, CONTAINING NO REPROCESSED OLEFIN MATERIALS. THE FIBERS SHALL CONFORM TO ASTM C1116 TYPE III AND MANUFACTURED SPECIFICALLY FOR THE SECONDARY REINFORCEMENT OF CONCRETE.
- 2.08 THE FIBERS SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED MANUFACTURING FACILITY. UNLESS OTHERWISE STATED, FIBERMESH 650 MACRO-SYNTHETIC FIBERS SHALL BE ADDED TO THE CONCRETE AT THE BATCHING PLANT AT THE RECOMMENDED APPLICATION RATE OF 3 LBS/YD³ AND MIXED FOR A SUFFICIENT TIME (MINIMUM 5 MINUTES AT FULL MIXING SPEED) TO ENSURE UNIFORM DISTRIBUTION OF THE FIBERS THROUGHOUT THE CONCRETE. FIBROUS CONCRETE REINFORCEMENT SHALL BE MANUFACTURED BY FIBERMESH, 4019 INDUSTRY DRIVE, CHATTANOOGA, TN 37416 USA, TEL: 800 621-1273, WEBSITE: WWW.FIBERMESH.COM
- 2.09 AT THE REQUEST OF THE VERIZON WIRELESS PROJECT MANAGER, TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C31. THREE CYLINDERS SHALL BE TAKEN FOR EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH THE LATEST REVISION TO ASTM C39.
- 2.10 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" x 45° CHAMFER, UNLESS OTHERWISE NOTED.
- 2.11 CONCRETE FORMWORK IS TO BE STRIPPED WITHIN 48 HOURS. VIBRATION OF THE CONCRETE MUST ASSURE THAT HONEYCOMBING WILL BE AT A MINIMUM. MECHANICAL VIBRATION OF ALL CONCRETE IS REQUIRED UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER. ABOVE GRADE CONCRETE IS TO BE RUBBED AND PATCHED TO ASSURE SMOOTH FINISH AT TIME OF FORMS REMOVAL. CONTRACTOR SHALL PROVIDE A BROOM FINISH ON THE TOP SURFACE OF THE EQUIPMENT FOUNDATION UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER.
- 2.12 TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF ELEVATION REQUIRED.
- 2.13 TOP OF FOUNDATION FINISH TO BE LEVEL ±1/8" IN 10'.
- 2.14 TOP OF FOUNDATION TO HAVE MEDIUM BROOM FINISH.
- 2.15 CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY PLACEMENT OF EQUIPMENT AND LOCATION OF CONDUIT FOR MANUFACTURER'S AND VENDORS SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION OF ALL UTILITIES.



8921 RESEARCH DRIVE
CHARLOTTE, NORTH CAROLINA 28262

PROJECT INFORMATION:

SITE NAME:
LUTTERLOH
SITE No.: 431701
PROJECT #: 20192010936
0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY

PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM
NC License F-0102

REV: DATE: ISSUED FOR: BY:

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2	08/11/21	CONSTRUCTION	DMF	
1	07/19/21	CONSTRUCTION	DMF	
0	07/12/21	CONSTRUCTION	DMF	

LICENSER:



KHA PROJECT NUMBER:

013509278

DRAWN BY: CHECKED BY:

WTB DMF

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

N1

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TOWER SETBACKS TO PROPERTY LINES (FROM TOWER CENTER)	
NORTH	1189'-5"
SOUTH	141'-10"
EAST	616'-7"
WEST	441'-9"

MICHAEL EDWARD STANO TR
TAX PARCEL: 0080649
DEED BOOK 2031, PG: 0055
PLAT BOOK 2003, PG: 213

KITTRELL ANNE DESBON
TAX PARCEL: 0080648
DEED BOOK 1812, PG: 980
PLAT BOOK 2003, PG: 213

GREGORY OLIVER
TAX PARCEL: 0010818
DEED BOOK 1891, PG: 296
PLAT BOOK 2003, PG: 213

SGERRILL LINDLEY
TAX PARCEL: 0061957
DEED BOOK 675, PG: 451

JERRY R. JUSTICE
TAX PARCEL: AKPAR 10843
DEED BOOK 675, PG: 451

LARRY F. JUSTICE HEIRS
TAX PARCEL: 0010862
DEED BOOK 675, PG: 463

RHONDA L. NUNN
CHARLES E. NUNN
TAX PARCEL: 0074285
DEED BOOK 747, PG: 700
PLAT BOOK 98, PG: 91

JERRY R. JUSTICE
TAX PARCEL: 0010876
DEED BOOK 675, PG: 451

NC HIGHWAY #87 NORTH
(60' PUBLIC RIGHT OF WAY)
PLAT BOOK: 2003 PG: 213

APPROXIMATE FEMA FLOOD ZONE.

DRY CREEK

EXISTING POND

EXISTING POND

PROPOSED LESSEE
100' X 100' PREMISES
(±10,000 SQ. FT.)
(SEE SHEET C2)

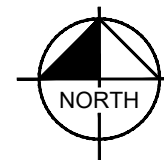
NOTE:

1. PARCEL AREA = 1,733,312.78 SQ. FT. (39.79 ACRES)
2. EXISTING IMPERVIOUS SURFACES = 42,141 SQ. FT.
3. EXISTING IMPERVIOUS PERCENTAGE = 2.43%
4. PROPOSED IMPERVIOUS SURFACE AREA = 9,477 SQ. FT.
5. PROPOSED IMPERVIOUS PERCENTAGE = 2.98%
6. DISTURBED AREA = 18,624 (0.43 ACRES)

SURVEY NOTE:

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY PROFESSIONAL LAND SURVEYORS DATED 12/31/19.

1 OVERALL PARCEL
C0 SCALE: 1" = 250'



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CHATHAM COUNTY

PLANS PREPARED BY:

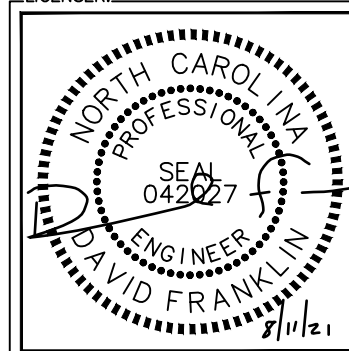


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PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM
NC License F-0102

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0	07/12/21	CONSTRUCTION	DMF	

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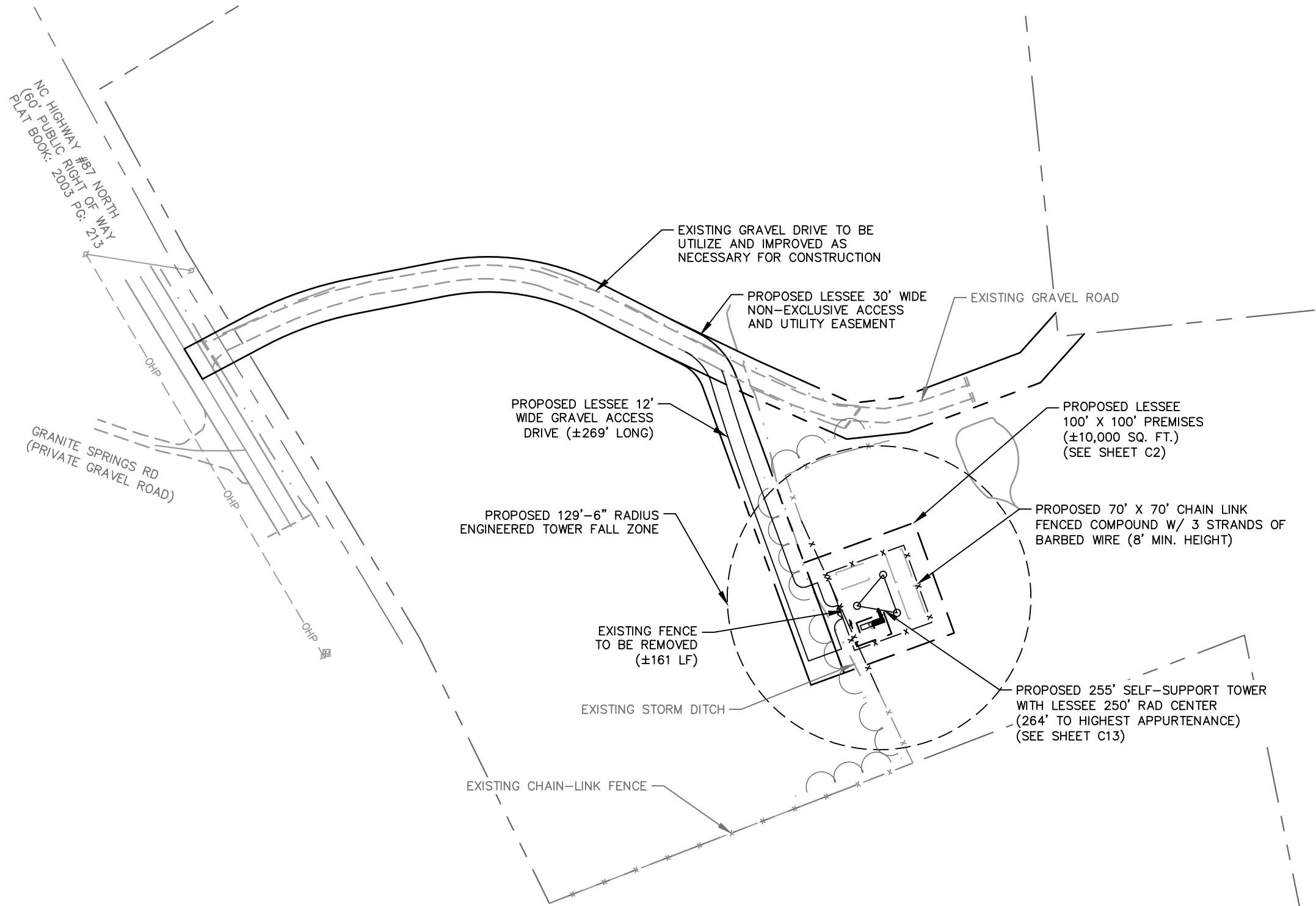
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OVERALL PARCEL

SHEET NUMBER:

C0

TOWER SETBACKS TO PROPERTY LINES (FROM TOWER CENTER)	
NORTH	1189'-5"
SOUTH	141'-10"
EAST	616'-7"
WEST	441'-9"



verizon

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LICENSER:



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SHEET TITLE:

OVERALL SITE PLAN

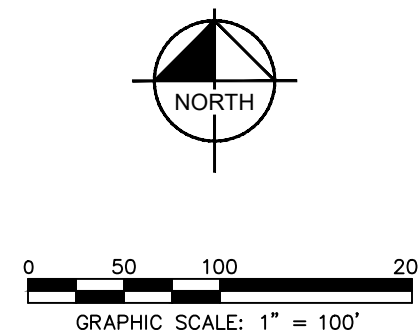
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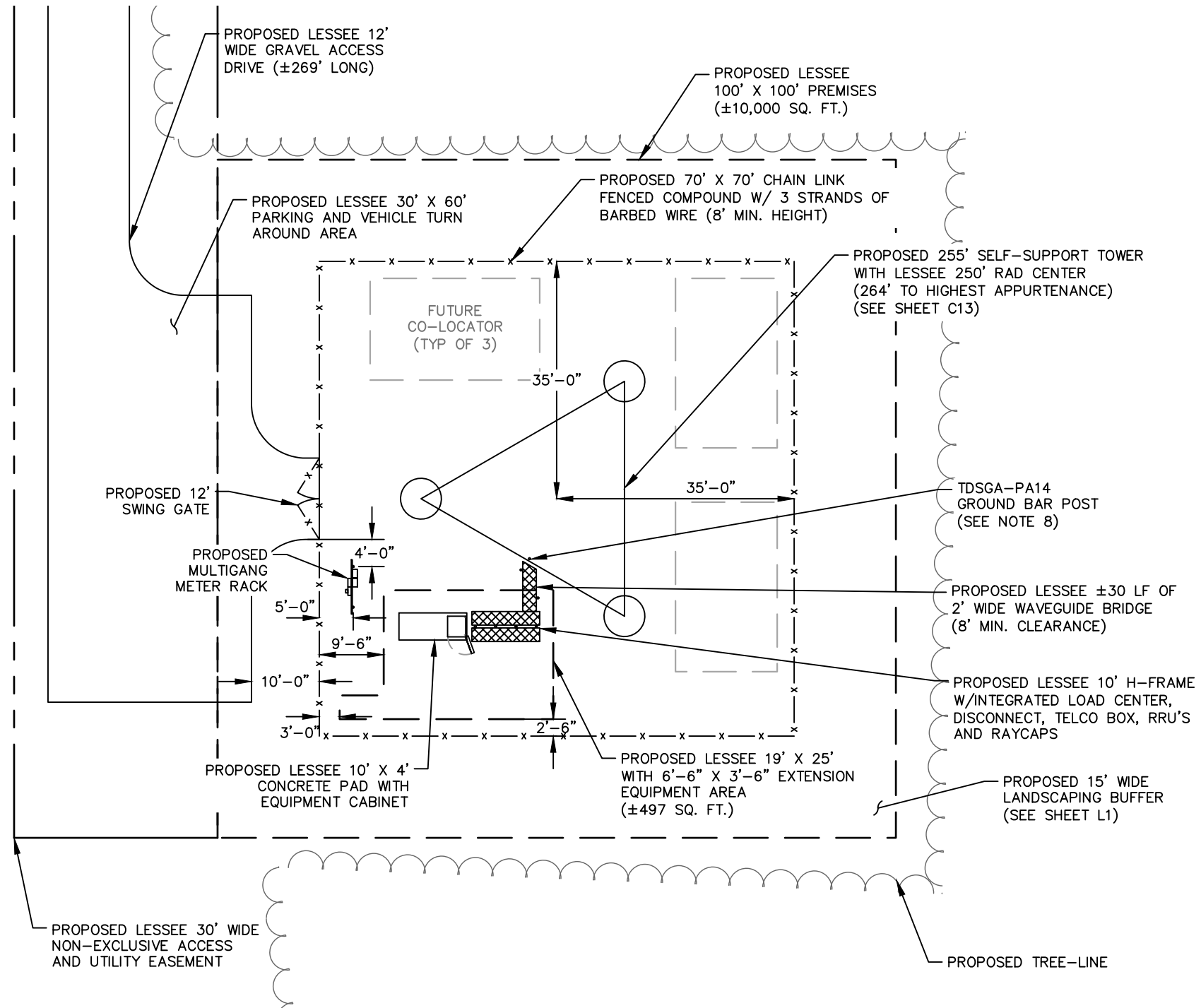
SURVEY NOTE:

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY PROFESSIONAL LAND SURVEYORS DATED 12/31/19.

1 OVERALL SITE PLAN
C1 SCALE: 1" = 100'



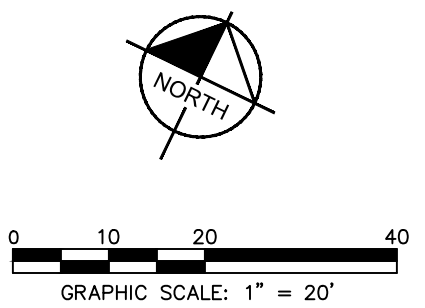
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1 SITE PLAN
C2 SCALE: 1" = 20'

SITE NOTES:

1. VERIZON WIRELESS STAFF SHALL COORDINATE WITH THE PROPERTY OWNER AND/OR TOWER OWNER TO OBTAIN THE PROPER EASEMENT AGREEMENTS TO CONSTRUCT AND MAINTAIN EQUIPMENT IN AND AROUND THE TOWER COMPOUND.
2. PROPOSED COMPOUND LAYOUT BASED ON SURVEY PROVIDED BY PROFESSIONAL LAND SURVEYORS DATED 12/31/19.
3. CONTRACTOR TO CONFIRM WITH VERIZON CONSTRUCTION MANAGER THAT THE SHELTER/EQUIPMENT SHOWN HAS BEEN ORDERED/SCHEDULED FOR DELIVERY TO THIS SITE.
4. THE BASIS OF EQUIPMENT DESIGN INCLUDES ONE (1) RF CABINET, ONE (1) FUTURE BATTERY CABINET, AND ONE (1) FUTURE EXPANSION CABINET.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MODIFYING SCOPE OF WORK TO ACCOMMODATE ANY CHANGES IN THE EXACT EQUIPMENT PROCURED BY VERIZON WIRELESS. COORDINATE ANY CHANGES WITH VERIZON WIRELESS CONSTRUCTION MANAGER.
6. ROUTE COAX/FIBER UP TOWER PER STRUCTURAL ANALYSIS BY TOWER OWNER.
7. TOWER DIMENSIONS SHOWN ON THIS PLAN ARE FOR TOWER CENTER LOCATION. CONTRACTOR TO OBTAIN COPY OF TOWER ERECTION DRAWINGS FROM VERIZON CONSTRUCTION MANAGER PRIOR TO DRILLING TOWER FOUNDATIONS. CASSIONS AND TOWER SHOWN ON THIS PLAN ARE ILLUSTRATIVE, SEE DESIGN DRAWING BY OTHERS. DO NOT SCALE.
8. INSTALL 3/2" O.D. GALVANIZED STEEL POST FOR TDSGA-PA14 GROUND BAR. POST TO EXTEND 78" ABOVE GRADE AND SHALL BE EMBEDDED IN A 12"Ø CONCRETE FOOTING A MINIMUM OF 36". FOOTING SHALL EXTEND A MINIMUM OF 42" BELOW GRADE.



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CHARLOTTE, NORTH CAROLINA 28262

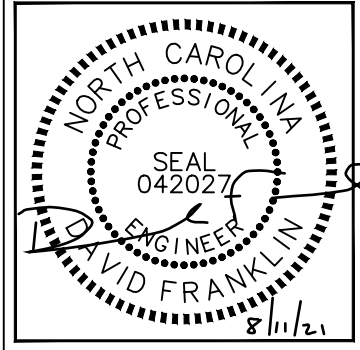
PROJECT INFORMATION:
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0 NC 87 N
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PLANS PREPARED BY:
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KHA PROJECT NUMBER:

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WTB DMF

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C2



8921 RESEARCH DRIVE
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0 NC 87 N
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PLANS PREPARED BY:

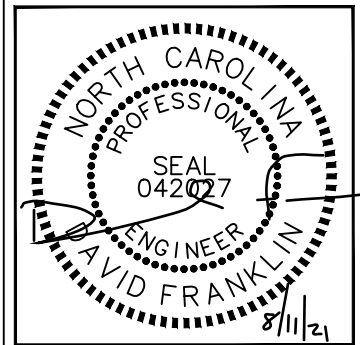


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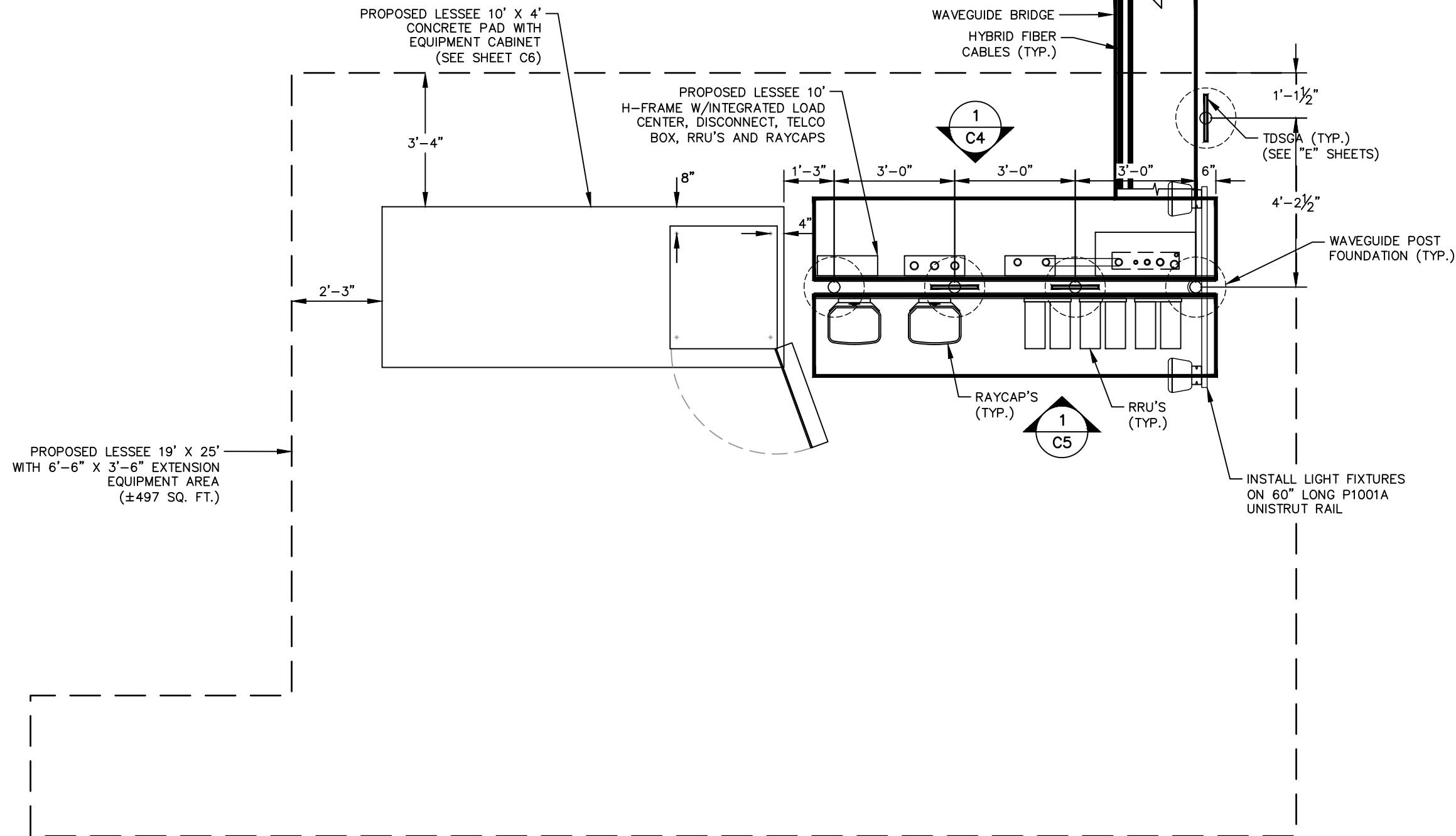
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EQUIPMENT PAD LAYOUT

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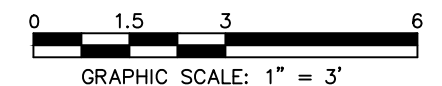
C3



1 EQUIPMENT PAD LAYOUT
C3 SCALE: 1" = 3'

EQUIPMENT PAD/ROUTING NOTES:

- REFER TO THE SITE PLAN FOR EQUIPMENT PAD LOCATION AND ORIENTATION.
- RUN 2" FLEX TELCO CONDUIT FROM BOTTOM OF TELCO BOX TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- RUN (2) 2" FLEX POWER CONDUIT AND (1) 1" ALARM CONDUIT FROM BOTTOM OF ILC TO SIDE OF RF CABINET WITH CHASE NIPPLES THROUGH FACTORY KNOCKOUTS.
- RUN 2" FLEX FIBER CONDUIT FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- RUN (1) 1 1/2" FLEX POWER CONDUIT FOR EVERY (6) RRU CIRCUITS FROM BOTTOM OF OVP TO SIDE OF RF CABINET WITH CHASE NIPPLE THROUGH FACTORY KNOCKOUT.
- SUPPORT FLEX CONDUIT ON HORIZONTAL H-FRAME RAILS OR ON VERTICAL SITE STRUT SNT10 RAILS ADDED TO H-FRAME FOR CONDUIT/CABLE MANAGEMENT.
- RUN HYBRID CABLE FOR TOWER MOUNTED RRU'S OVERHEAD ON TRAPEZE SUSPENDED FROM WAVE GUIDE BRIDGE. SWEEP DOWN ONTO H-FRAME RAILS, THEN LOOP UNDER OVP AND CONNECT TO BOTTOM OF OVP. ATTACH GROUND KITS TO HYBRID CABLE BEFORE LOOPING UNDER OVP, AND BOND TO TDSGA GROUND BAR AT BASE OF H-FRAME.
- RUN COAX CABLE FOR GROUND MOUNTED RRU'S (IF USED) OVERHEAD ON TRAPEZE SUSPENDED FROM WAVE GUIDE BRIDGE. TERMINATE COAX ON ICE BRIDGE AND TRANSITION TO JUMPERS JUST BEFORE REACHING H-FRAME. ATTACH GROUND KITS TO COAX CABLE ON TOWER SIDE OF LAST ICE BRIDGE POST AND BOND TO TDSGA GROUND BAR NEAR TOP OF POST.
- GPS ANTENNA TO BE MOUNTED TO STANDARD HEIGHT POST WITH EXTENDED MOUNTING PIPE, USING COMMSCOPE GPS-U MOUNTING KIT. MOUNT AS NEAR AS PRACTICAL TO RBA84 CABINET.
- BOLT CABINETS AND GENERATOR TO SLAB USING FASTENERS SPECIFIED BY EQUIPMENT MANUFACTURER IN FACTORY PROVIDED MOUNTING HOLES.



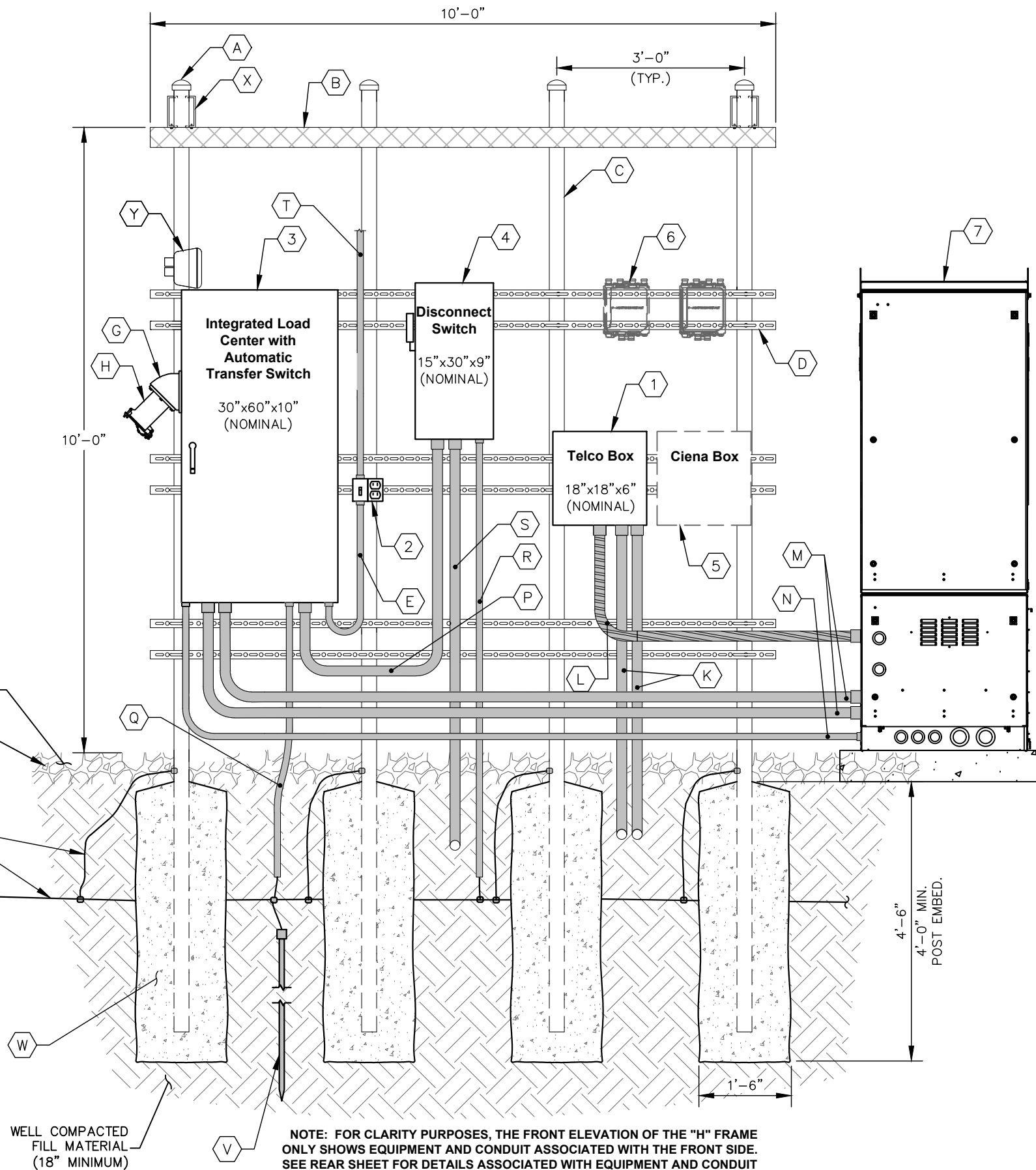
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KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) ICE BRIDGE, SEE CIVIL SHEETS FOR ADDITIONAL DETAILS.
- (C) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (D) 1 5/8" X 1 5/8" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- (E) 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO LIGHTS/DUPLEX OUTLET.
- (F) ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTOR (BC) FROM H-FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.
- (G) MANUFACTURER PROVIDED CONNECTION BETWEEN AUTOMATIC TRANSFER SWITCH AND GENERATOR RECEPTACLE.
- (H) FURNISH AND INSTALL 120/240 VOLT GENERATOR RECEPTACLE IN NEMA 3R ENCLOSURE. GENERATOR PLUG SHOULD BE MANUFACTURED AND INSTALLED AS AN INTEGRAL PART OF THE AUTOMATIC TRANSFER SWITCH WHENEVER POSSIBLE.
- (J) KEY NOTE NOT USED.
- (K) TWO (2) 2" PVC TELCO CONDUITS, WITH TWO (2) PULL ROPES EACH.
- (L) 2" FLEX CONDUIT FOR TELCO CABLES TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (M) (2) 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO RF CABINET. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (N) 1" PVC CONDUIT FROM INTEGRATED LOAD CENTER (ILC) TO RF CABINET FOR ALARM SIGNAL CABLE. REFER TO ROUTING NOTES ON EQUIPMENT PAD LAYOUT.
- (P) 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE DISCONNECT SWITCH TO THE UTILITY BREAKER IN THE ILC.
- (Q) 3/4" PVC CONDUIT WITH ONE (1) - #2 AWG BARE TINNED COPPER FROM GROUNDING LUG IN ILC TO GROUND ROD, EXOTHERMIC WELD TO GROUND ROD.
- (R) 3/4" PVC CONDUIT WITH ONE (1) - #2 AWG BARE TINNED COPPER FROM GROUNDING LUG IN DISCONNECT SWITCH TO GROUND RING, EXOTHERMIC WELD TO GROUND RING.
- (S) 2" PVC CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE UTILITY COMPANY METER TO THE DISCONNECT SWITCH.
- (T) 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS TO AREA LIGHTS.
- (U) GROUND RING (SEE "E" SHEETS).
- (V) GROUND RODS, EXOTHERMIC WELD TO GROUND RING (SEE "E" SHEETS).
- (W) CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 650.
- (X) WB-K210-B15 HORSEHEAD SUPPORT BRACKET (SEE "WAVEGUIDE BRIDGE DETAILS" SHEET). THRU BOLTS REQUIRED FOR ATTACHMENT IN LIEU OF FACTORY PROVIDED U-BOLTS.
- (Y) INSTALL LIGHT FIXTURES ON 60" LONG P1001A UNISTRUT RAIL (SEE "EQUIPMENT PAD LAYOUT" SHEET). ATTACH P1001A TO H-FRAME POST USING TWO (2) UB3 UNISTRUT CLAMPS. LIGHTS TO BE INSTALLED 7'-6" ABOVE GRADE.

KEY NOTES - ELECTRICAL EQUIPMENT

- (1) NEMA 3R ENCLOSURE TELCO BOX WITH REMOVABLE FRONT PANEL, PVC, (18" X 18" X 6" NOMINAL).
- (2) 20 AMP GFCI DUPLEX RECEPTACLE AND TIMER SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE, 2 GANG BOX WITH RED DOT 2CKPM-W COVER.
- (3) 200 AMP, 120/240 VOLT, INTEGRATED LOAD CENTER WITH 42 SPACE PANEL AND AUTOMATIC TRANSFER SWITCH (30" X 60" X 10" NOMINAL).
- (4) SE RATED, 240 V, 200 AMP, 2-POLE, NON-FUSED DISCONNECT IN NEMA 3R ENCLOSURE.
- (5) CIENA ETHERNET IF REQUIRED (COORDINATE WITH VERIZON CONSTRUCTION MANAGER FOR ADDITIONAL CONDUIT AND WIRING REQUIREMENTS).
- (6) DUPLEXERS "AS NEEDED".
- (7) VERIZON RF CABINET-REAR VIEW.



NOTE: FOR CLARITY PURPOSES, THE FRONT ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE FRONT SIDE. SEE REAR SHEET FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE REAR SIDE OF THE "H" FRAME.

1
C4 EQUIPMENT RACK DETAILS - FRONT
NOT TO SCALE

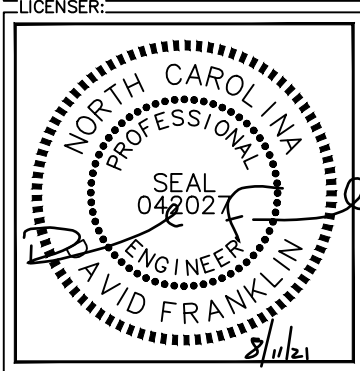


PROJECT INFORMATION:
 SITE NAME:
 LUTTERLOH
 SITE No.: 431701
 PROJECT #: 20192010936
 0 NC 87 N
 PITTSBORO, NC 27312
 CHATHAM COUNTY

PLANS PREPARED BY:
Kimley»Horn
 11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
 WWW.KIMLEY-HORN.COM
 NC License F-0102

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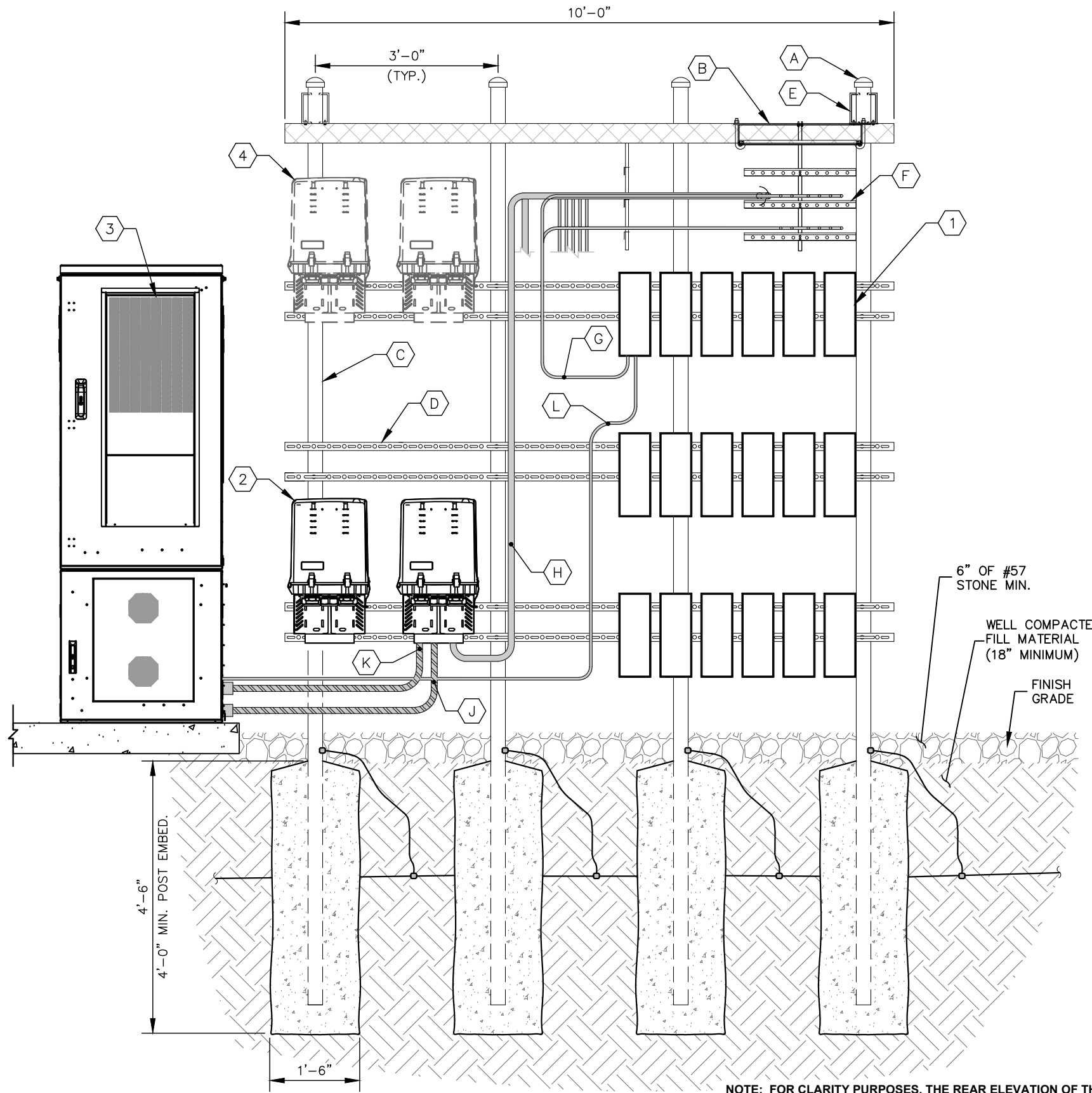
KHA PROJECT NUMBER:
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 DRAWN BY: _____ CHECKED BY: _____
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SHEET TITLE:
**EQUIPMENT RACK
 DETAIL - FRONT**

SHEET NUMBER:
C4

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KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A GALVANIZED RIGID STEEL CAP, TYPICAL.
- B ICE BRIDGE, SEE CIVIL SHEETS FOR ADDITIONAL DETAILS.
- C 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- D 1 1/8" X 1 1/8" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- E WB-K210-B15 HORSEHEAD SUPPORT BRACKET (SEE "WAVEGUIDE BRIDGE DETAILS" SHEET). THRU BOLTS REQUIRED FOR ATTACHMENT IN LIEU OF FACTORY PROVIDED U-BOLTS.
- F ICE BRIDGE RUNNING TOWARDS TOWER (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- G COAX JUMPER CABLES INTO BOTTOM OF RRU'S, TYPICAL.
- H HYBRID CABLES RUNNING INTO BOTTOM OF RAYCAPS, TYPICAL (SEE NOTE 7 ON "EQUIPMENT PAD LAYOUT" SHEET).
- J 1 1/2" POWER FLEX CONDUIT RUNNING FROM BOTTOM OF RAYCAPS TO CABINET, TYPICAL (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- K 2" FIBER FLEX CONDUIT RUNNING FROM BOTTOM OF RAYCAPS TO CABINET, TYPICAL (SEE "EQUIPMENT PAD LAYOUT" SHEET).
- L FIBER/POWER JUMPER TO RRU (TYP. FOR EACH RRU).

KEY NOTES - ELECTRICAL EQUIPMENT

- 1 VERIZON RF RRU'S (MODEL, QUANTITY OF, AND CONFIGURATION DETERMINED BY RF DESIGN).
- 2 VERIZON RAYCAPS (MODEL, QUANTITY OF, AND CONFIGURATION DETERMINED BY RF DESIGN).
- 3 VERIZON RF CABINET-FRONT VIEW.
- 4 FUTURE VERIZON RAYCAPS.

NOTE: FOR CLARITY PURPOSES, THE REAR ELEVATION OF THE "H" FRAME ONLY SHOWS EQUIPMENT AND CONDUIT ASSOCIATED WITH THE REAR SIDE. SEE FRONT SHEET FOR DETAILS ASSOCIATED WITH EQUIPMENT AND CONDUIT MOUNTED ON THE FRONT SIDE OF THE "H" FRAME.

1 EQUIPMENT RACK DETAILS - REAR
C5 NOT TO SCALE



8921 RESEARCH DRIVE
CHARLOTTE, NORTH CAROLINA 28262

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LUTTERLOH
SITE No.: 431701
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0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY

PLANS PREPARED BY:

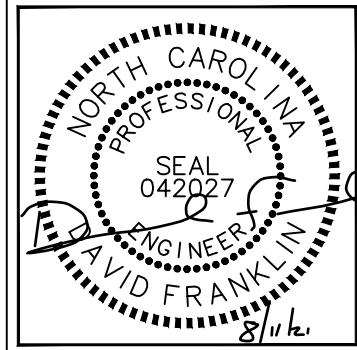


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LICENSER:



KHA PROJECT NUMBER:

013509278

DRAWN BY: CHECKED BY:

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DMF

SHEET TITLE:

EQUIPMENT RACK
DETAIL - REAR

SHEET NUMBER:

C5



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PROJECT INFORMATION:

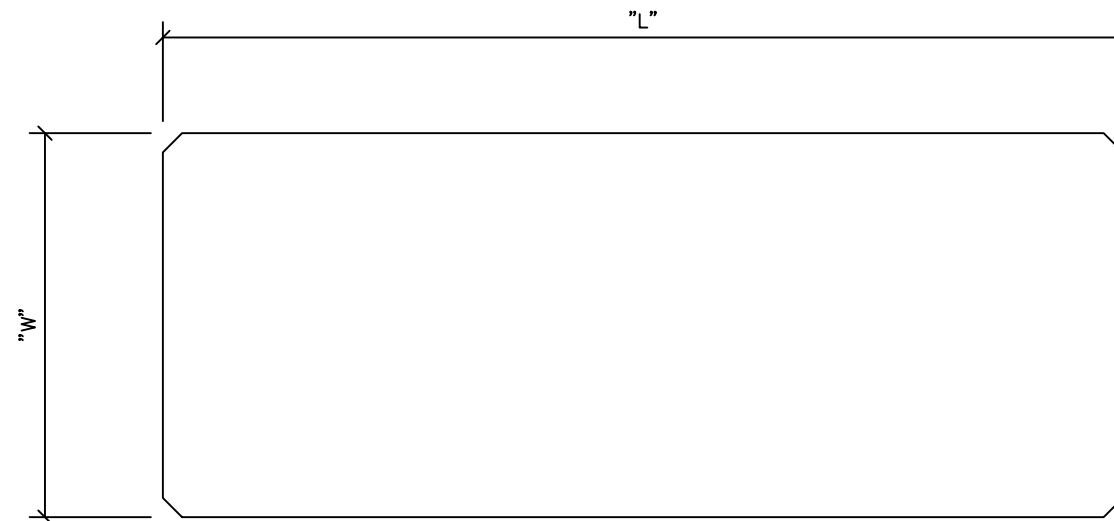
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CHATHAM COUNTY

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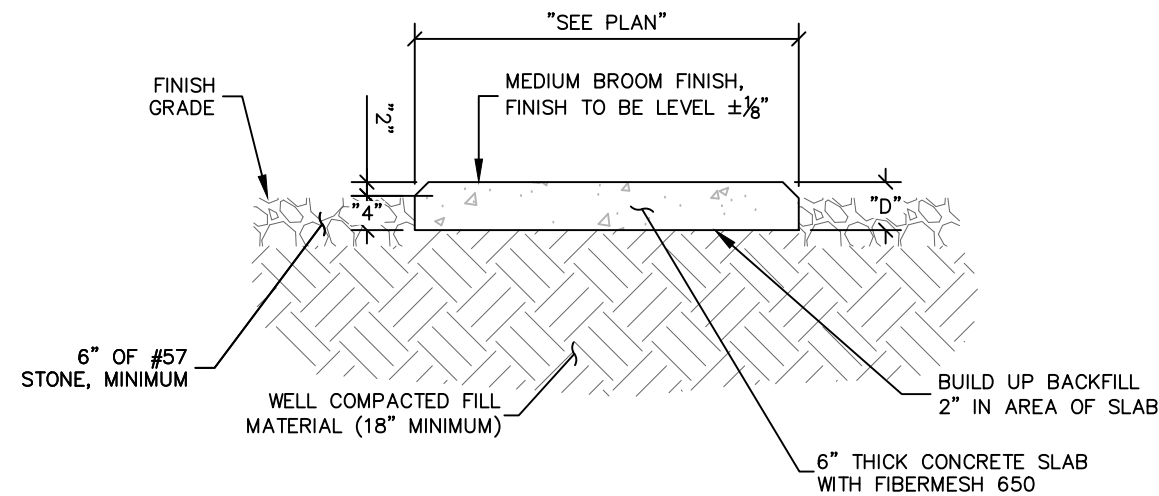


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CONCRETE PAD SCHEDULE				
PAD TYPE	"L"	"W"	"D"	REINFORCEMENT
EQUIPMENT PAD	10'-0"	4'-0"	6"	SEE DETAIL 2/C6



1 CONCRETE PAD PLAN
C6 NOT TO SCALE

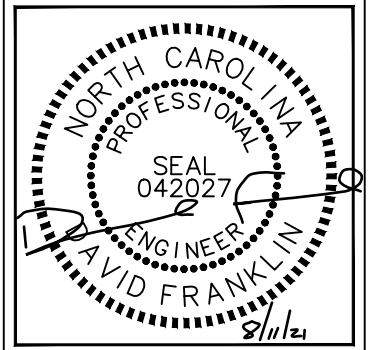


2 CONCRETE PAD FOUNDATION SECTION
C6 NOT TO SCALE

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KHA PROJECT NUMBER:

013509278

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SHEET TITLE:

CONCRETE PAD FOUNDATION DETAILS

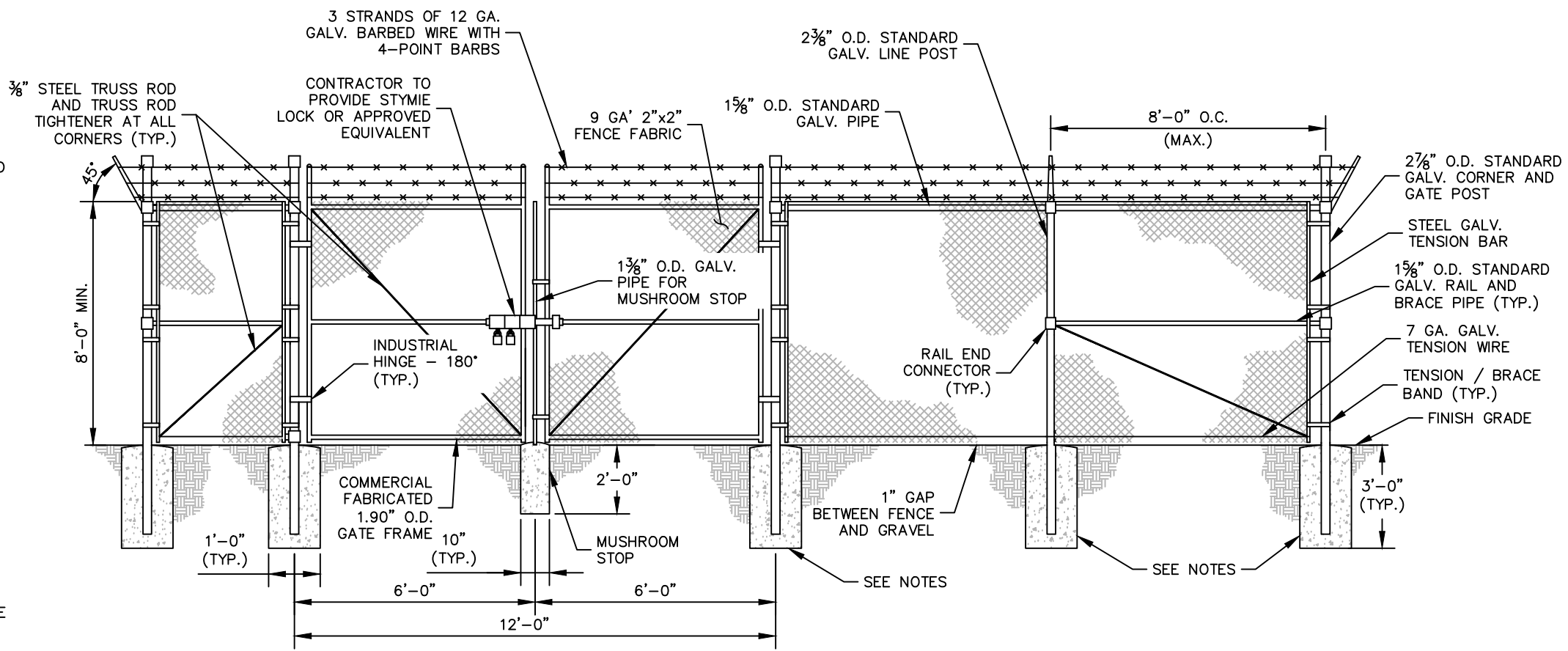
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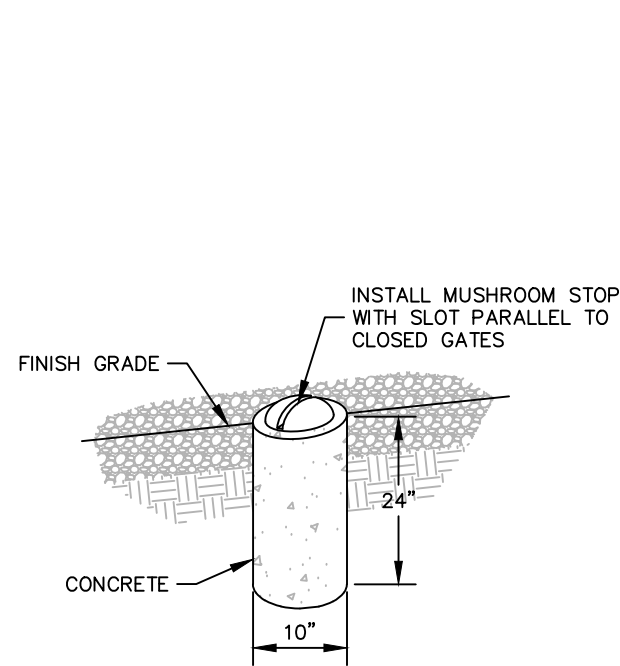
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FENCE NOTES:

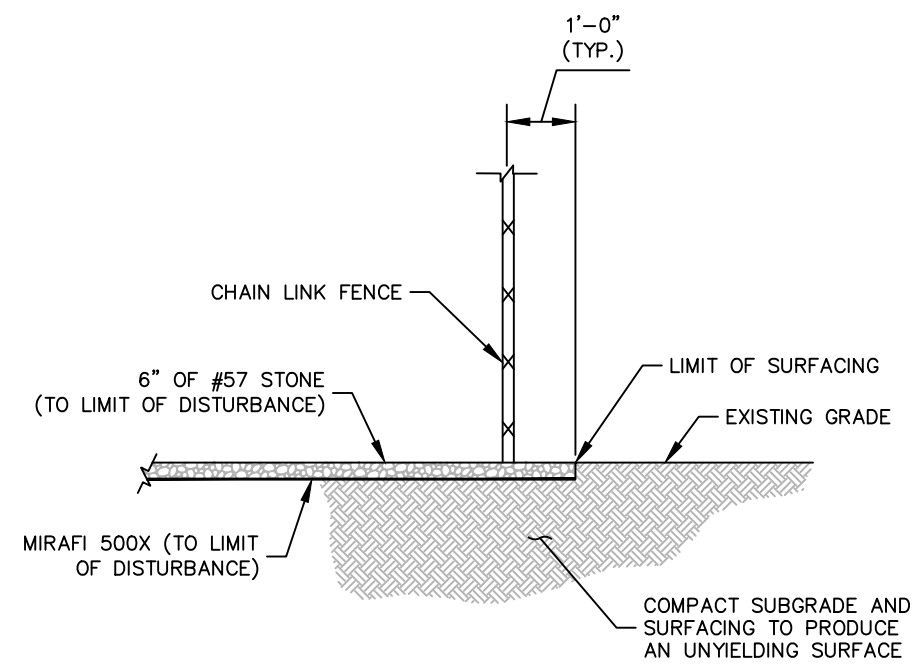
1. USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
2. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
3. ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
4. CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
5. PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
6. THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 1" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
8. CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.



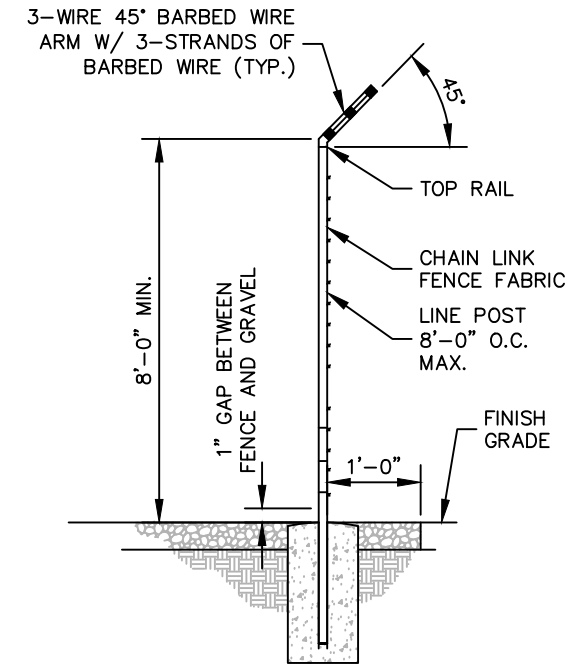
1 CHAIN LINK FENCE AND GATE ELEVATION
C7 NOT TO SCALE



2 MUSHROOM STOP
C7 NOT TO SCALE



3 SITE COMPOUND SURFACE DETAIL
C7 NOT TO SCALE



4 SECTION AT FENCE
C7 NOT TO SCALE

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8921 RESEARCH DRIVE
CHARLOTTE, NORTH CAROLINA 28262

PROJECT INFORMATION:
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PITTSBORO, NC 27312
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LICENSER:
NORTH CAROLINA PROFESSIONAL SEAL
042027
ENGINEER
DAVID FRANKLIN
8/11/21

KHA PROJECT NUMBER:
013509278

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SHEET TITLE:
FENCE, GATE, AND COMPOUND DETAILS

SHEET NUMBER:
C7

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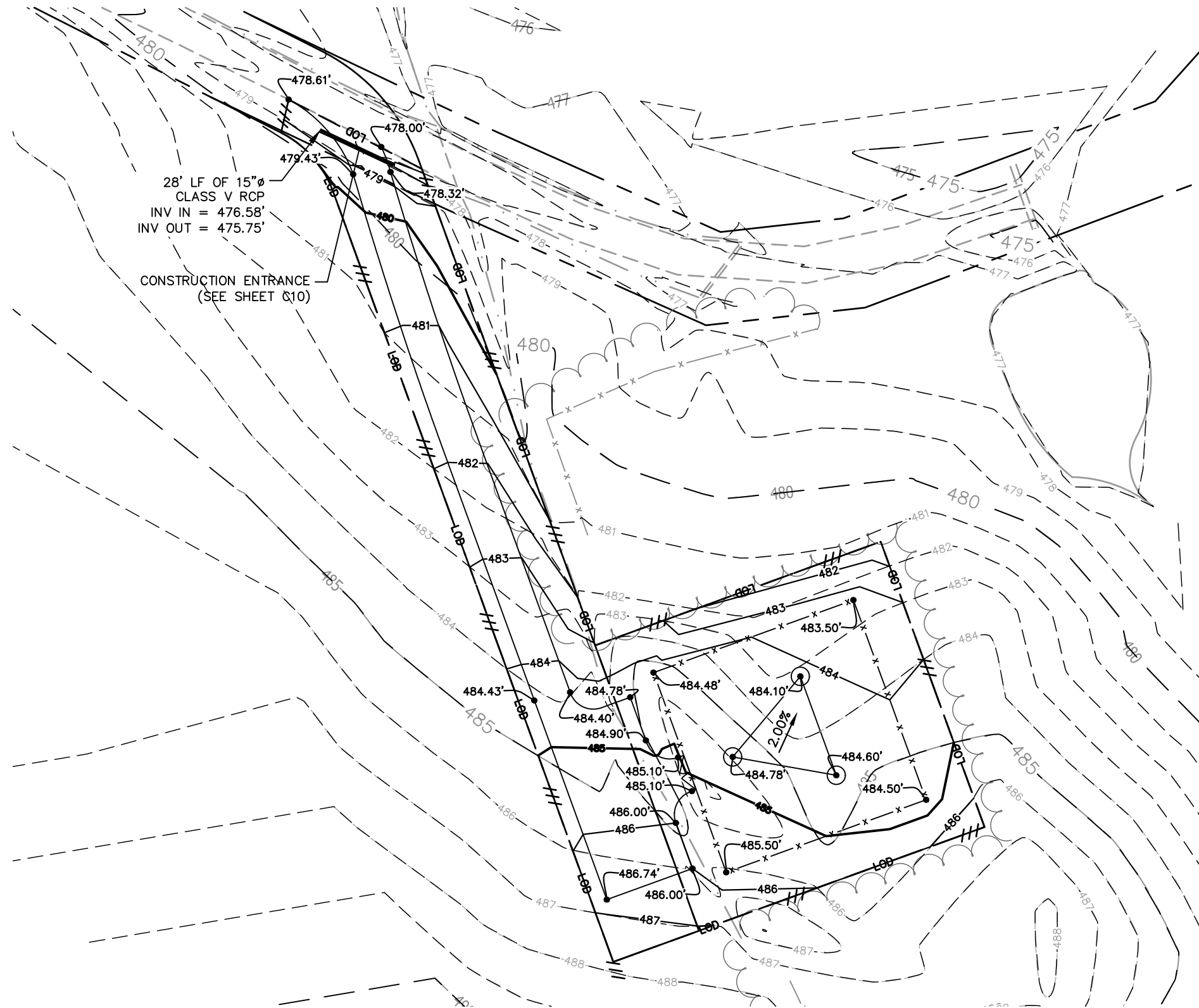
NOTE:
 CURRENT DESIGN ANTICIPATES APPROXIMATELY 18,624± SQ. FT. (0.43 ACRES) OF CLEARING AND GRADING FOR THE PROPOSED PROJECT. IF ADDITIONAL CLEARING IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR PROJECT MANAGER. IF DURING THE BID WALK OR CONSTRUCTION IT IS DETERMINED THAT MORE THAN (1) ACRE OF LAND IS TO BE DISTURBED FOR CONSTRUCTION AN EROSION AND SEDIMENTATION CONTROL PLAN MUST BE FILED 30 DAYS PRIOR TO CONSTRUCTION.

GRADING NOTES:

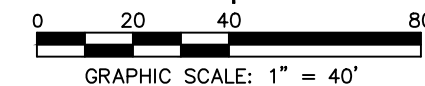
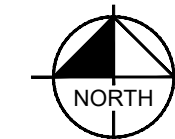
1. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEERS SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
2. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
3. CONTRACTOR SHALL BLEND EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
4. PORTIONS OF THE SITE NOT SPECIFICALLY MENTIONED WITHIN THE GEOTECHNICAL REPORT SHALL BE COMPACTED TO 95 PERCENT OF THE MATERIALS MAXIMUM DRY DENSITY WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
5. FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
6. UNDISTURBED AREAS WITHIN 30' INGRESS/EGRESS EASEMENT NOT NEEDED FOR UTILITY ROUTING TO BE LEFT UNDISTURBED.
7. GROUND WATER SHOULD BE REASONABLY EXPECTED. ANY DE-WATERING OR MOISTURE CONDITIONING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE INCLUDED IN THE CONTRACT PRICE.
8. SEED ALL DISTURBED AREAS NOT TOPPED WITH GRAVEL PER SEEDING SCHEDULE ON DETAIL ON SHEET C9.
9. MAXIMUM CUT SLOPE = 2H:1V UNLESS OTHERWISE NOTED.
10. MAXIMUM FILL SLOPE = 3H:1V UNLESS OTHERWISE NOTED.

LEGEND

- EXISTING CONTOURS ————
- PROPOSED CONTOURS ————
- LOD/SILT FENCE ——— LOD ——— ///
- TPF ——— TPF ——— TPF
- EXISTING SPOT ELEVATION x XXX
- PROPOSED SPOT ELEVATION ● XXX



1 GRADING & EROSION CONTROL PLAN
C8 SCALE: 1" = 40'



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 CHARLOTTE, NORTH CAROLINA 28262

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 0 NC 87 N
 PITTSBORO, NC 27312
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PLANS PREPARED BY:

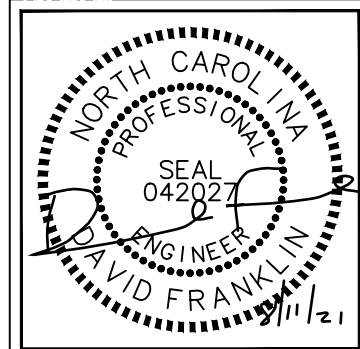


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LICENSER:



KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

WTB DMF

SHEET TITLE:

GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:

C8

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EROSION CONTROL NOTES:

1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
2. ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF.
3. SOIL REMAINING ON SITE SHALL HAVE SILT FENCE TIGHTLY PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.
4. PROVIDE EROSION CONTROLS AS NECESSARY TO PREVENT EXISTING SOILS FROM DRAINING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES.
5. ERECTION OF EROSION CONTROLS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.

SEEDING SCHEDULE FOR WINTER / SPRING CONSTRUCTION ACTIVITIES

SEEDING MIXTURE

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

SEEDING DATES

Mountains-- Above 2500 ft:	Feb 15 - May 15
Below 2500 ft.:	Feb. 1 - May 1
Piedmont--Jan. 1 - May 1	
Coastal Plain--Dec. 1 - Apr. 15	

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

SEEDING SCHEDULE FOR SUMMER CONSTRUCTION ACTIVITIES

SEEDING MIXTURE

Species	Rate (lb/acre)
Common Bermudagrass	40-80 (1-2 lb/1,000 sq. ft.)

SEEDING DATES

Coastal Plain--Apr. 1 - July
Piedmont--Apr. 15 - June 30

SOIL AMENDMENTS

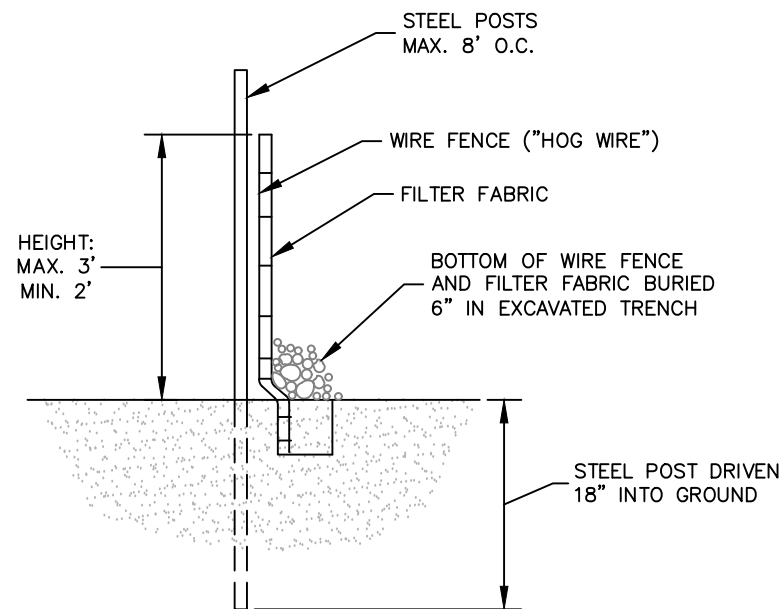
Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer.

MULCH

Use jute, excelsior matting, or other effective channel lining material to cover the bottom of channels and ditches. The lining should extend above the highest calculated depth of flow. On channel side slopes above this height, and in drainages not requiring temporary lining, apply 4,000 lb/acre grain straw and anchor straw by stapling netting over the top.

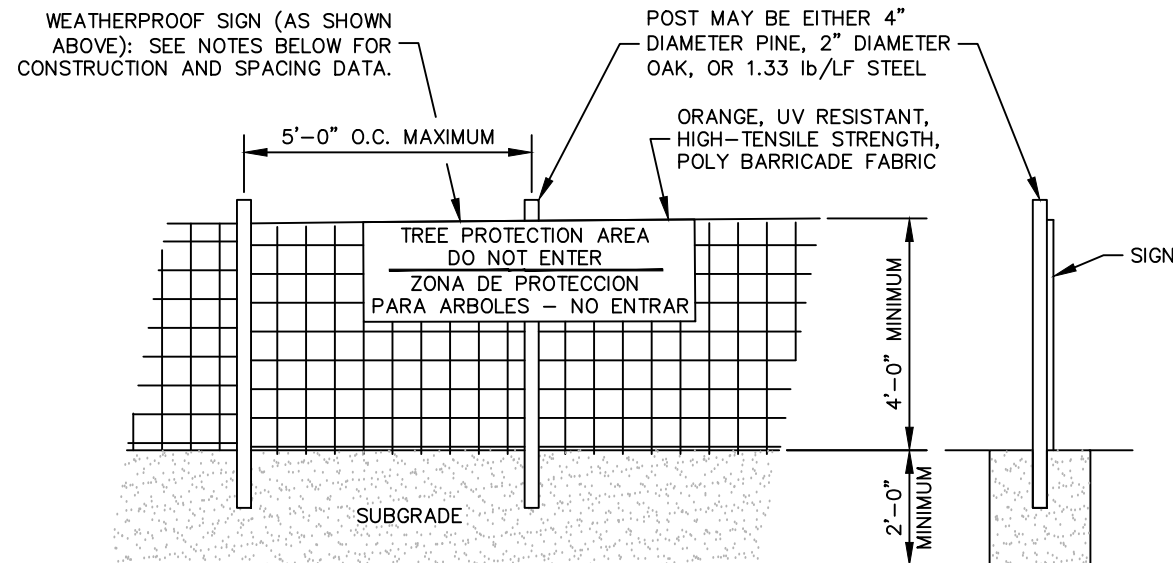
MAINTENANCE

A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/acre nitrogen.



SECTION

1 SEDIMENT FENCE (SILT FENCE)
C9 NOT TO SCALE



NOTES

INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR SITE INSPECTION. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BASED ON ACTUAL FIELD CONDITIONS.

2 TREE PROTECTION FENCE
C9 NOT TO SCALE

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8921 RESEARCH DRIVE
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LICENSER:



KHA PROJECT NUMBER:

013509278

DRAWN BY: CHECKED BY:

WTB DMF

SHEET TITLE:

**GRADING AND
EROSION
CONTROL DETAILS**

SHEET NUMBER:

C9



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CHARLOTTE, NORTH CAROLINA 28262

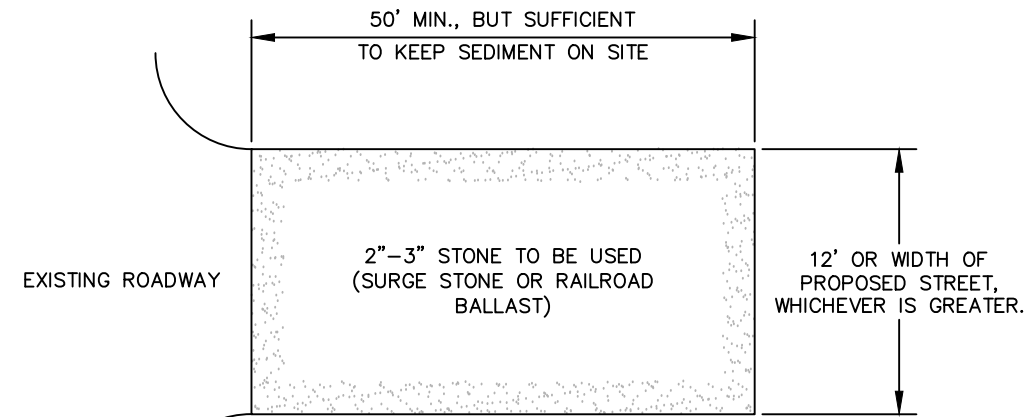
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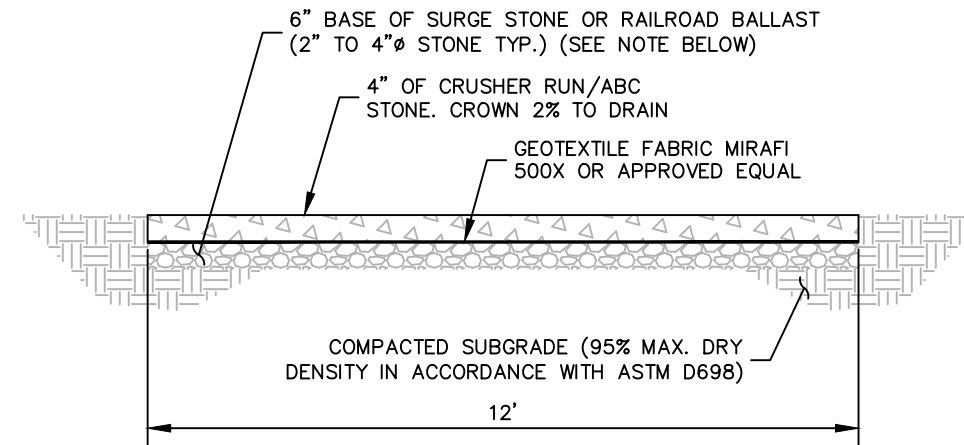
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PLAN

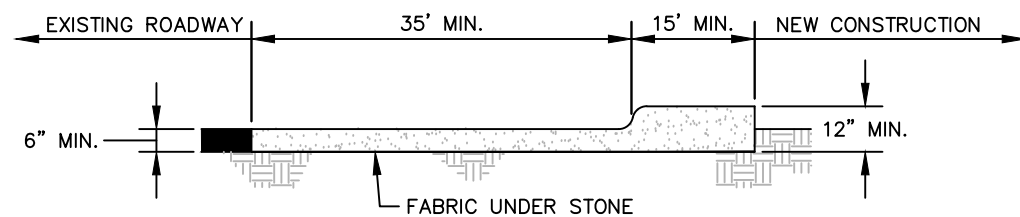
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.



NOTE:

IF DETERMINED NECESSARY DURING GRADING AND CONSTRUCTION OF THE ACCESS ROAD BY THE VERIZON WIRELESS PROJECT MANAGER, THE CONTRACTOR SHALL INSTALL 6" BASE OF SURGE STONE OR RAILROAD BALLAST (2" TO 4" Ø STONE TYP.)



CROSS SECTION

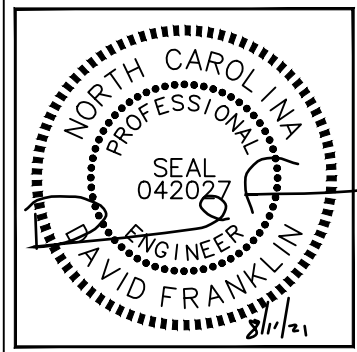
1 CONSTRUCTION ENTRANCE
C10 NOT TO SCALE

2 STANDARD ACCESS ROAD AND TURN-AROUND DETAIL
C10 NOT TO SCALE

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2	08/11/21	CONSTRUCTION	DMF
1	07/19/21	CONSTRUCTION	DMF
0	07/12/21	CONSTRUCTION	DMF

LICENSER:



KHA PROJECT NUMBER:

013509278

DRAWN BY: _____ CHECKED BY: _____

WTB

DMF

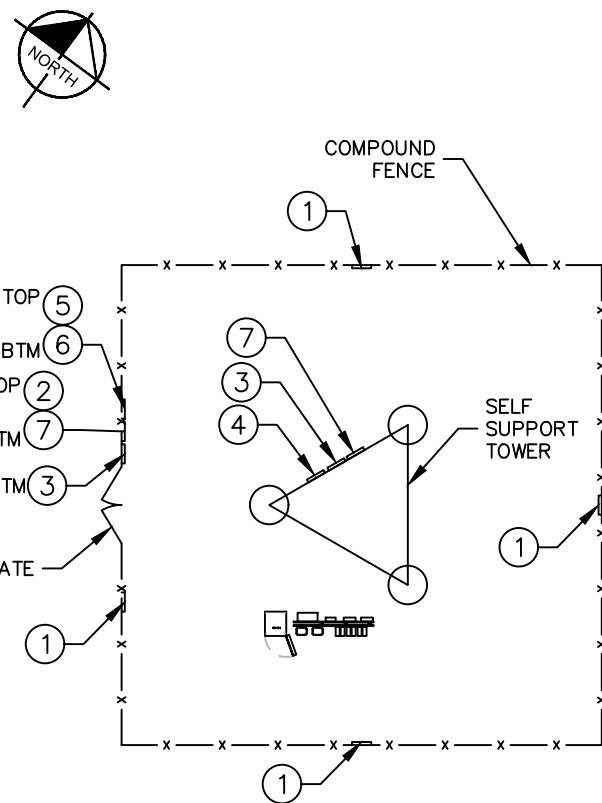
SHEET TITLE:

ACCESS ROAD
DETAILS

SHEET NUMBER:

C10

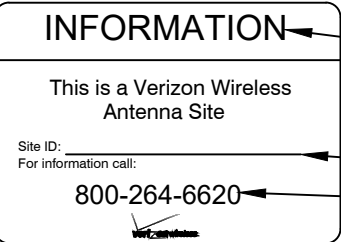
K:\ATL_Wireless\000_Verizon\2021_Sites\Lutterloh\CAD\GB_ECOr-GB.dwg 08/11/21 11:10 AM by: christopher.strange



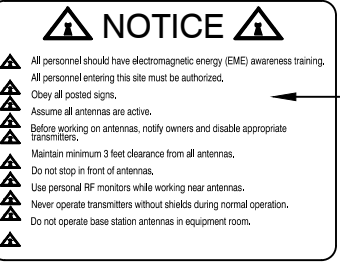
1 SIGN PLACEMENT PLAN VIEW
C11 NOT TO SCALE



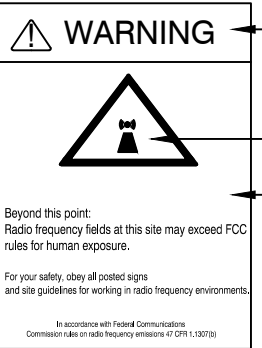
1 NO-TRESPASSING SIGN
18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)



2 VERIZON WIRELESS - SITE ID SIGN
15" HIGH X 23" WIDE
(OPERATIONS PROVIDED)



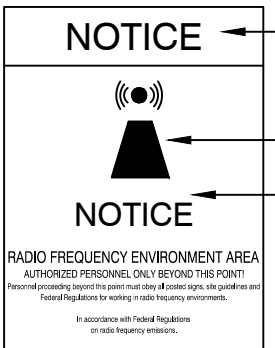
3 NOTICE-RFE SIGN
12" HIGH X 18" WIDE
(OPERATIONS PROVIDED)



4 WARNING-RF SIGN (RED)
12" WIDE X 18" HIGH



5 CAUTION-RF SIGN (YELLOW)
12" WIDE X 18" HIGH

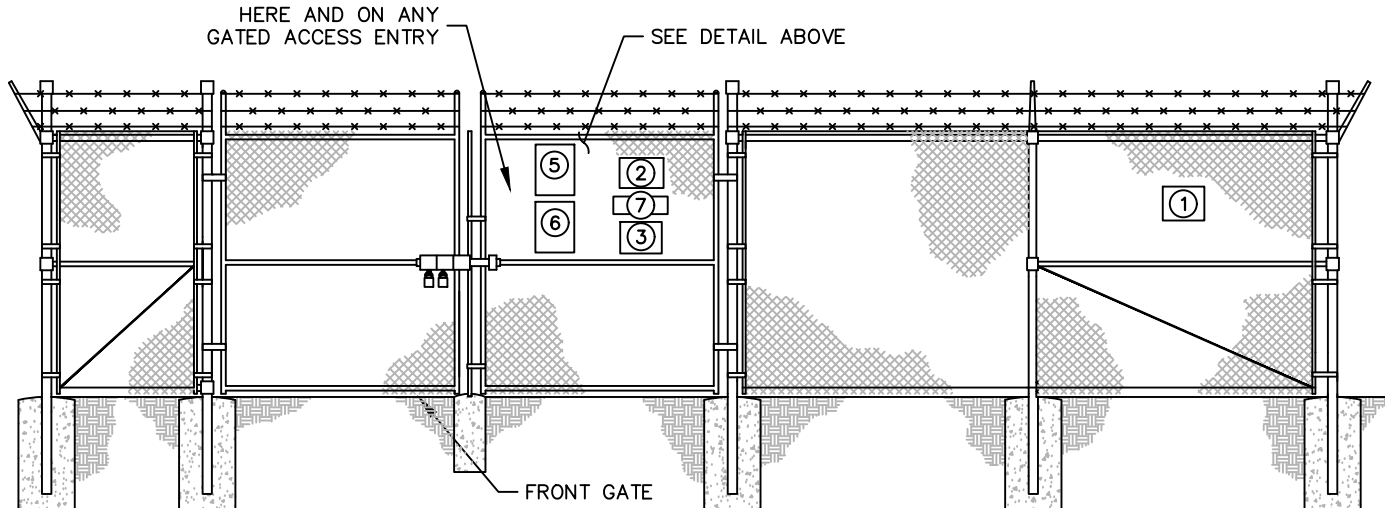


6 NOTICE-RF SIGN (BLUE)
12" WIDE X 18" HIGH



7 FCC REGISTRATION SIGN
20 WIDE X 4" HIGH

2 TYPICAL SIGNS AND SPECIFICATIONS
C11 NOT TO SCALE



3 SIGN PLACEMENT FRONT GATE VIEW
C11 NOT TO SCALE

SIGNAGE NOTES:
1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.

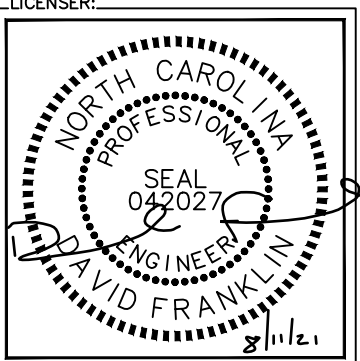


PROJECT INFORMATION:
SITE NAME:
LUTTERLOH
SITE No.: 431701
PROJECT #: 20192010936
0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY

PLANS PREPARED BY:
Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM
NC License F-0102

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SITE SIGNAGE DETAILS

SHEET NUMBER:
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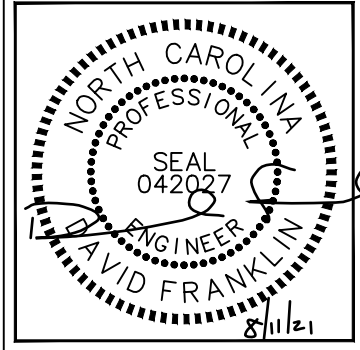
Kimley»Horn

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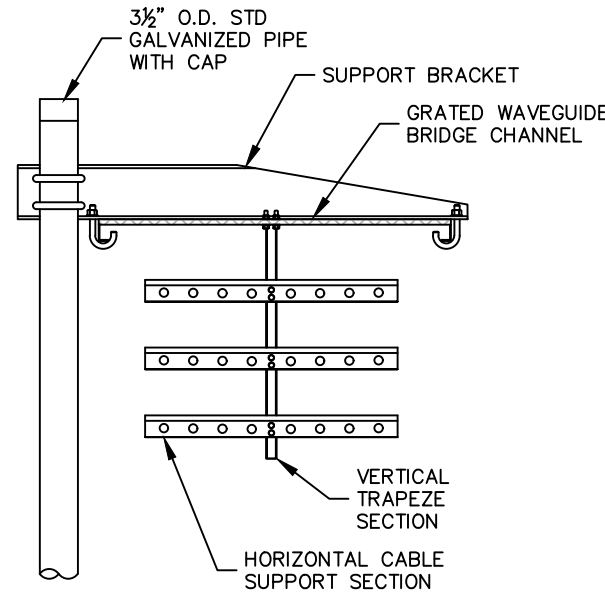
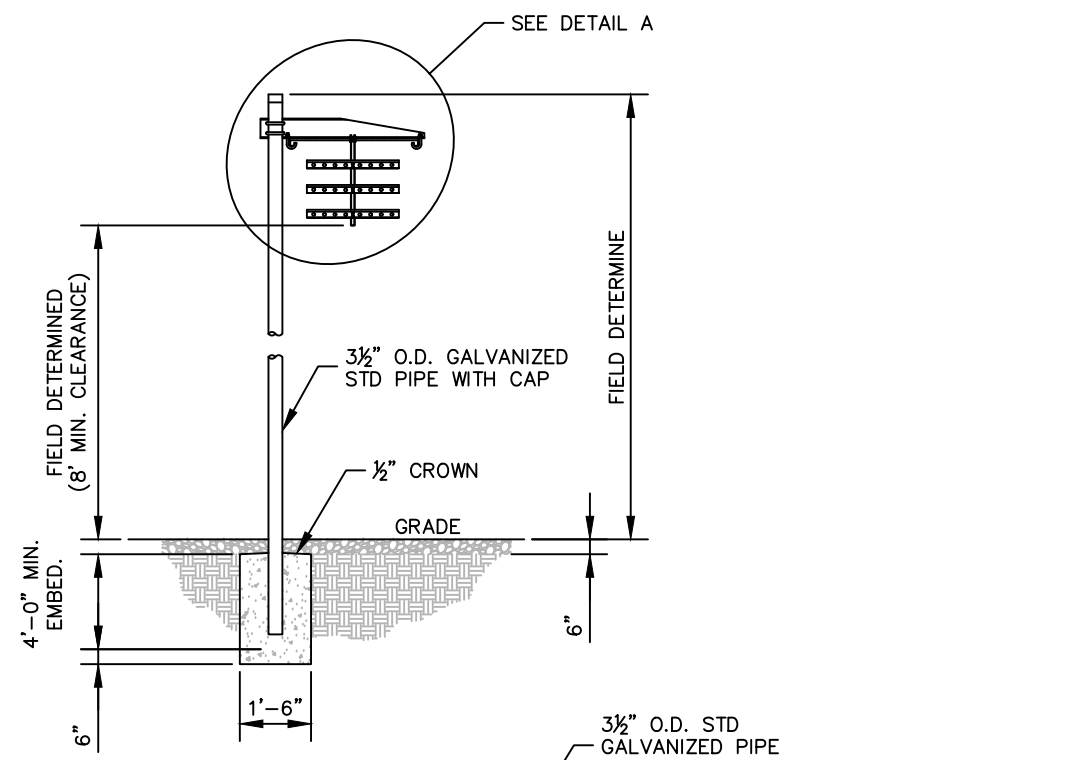
WTB DMF

SHEET TITLE:

**WAVEGUIDE
BRIDGE DETAILS**

SHEET NUMBER:

C12



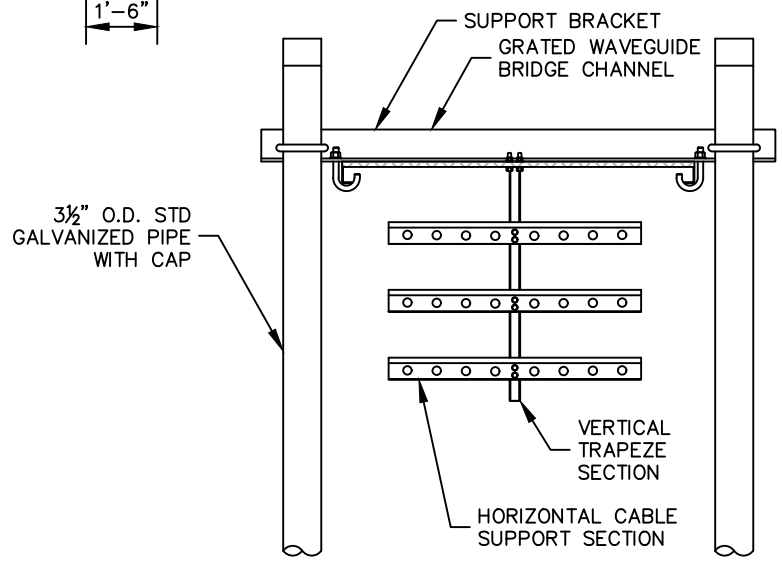
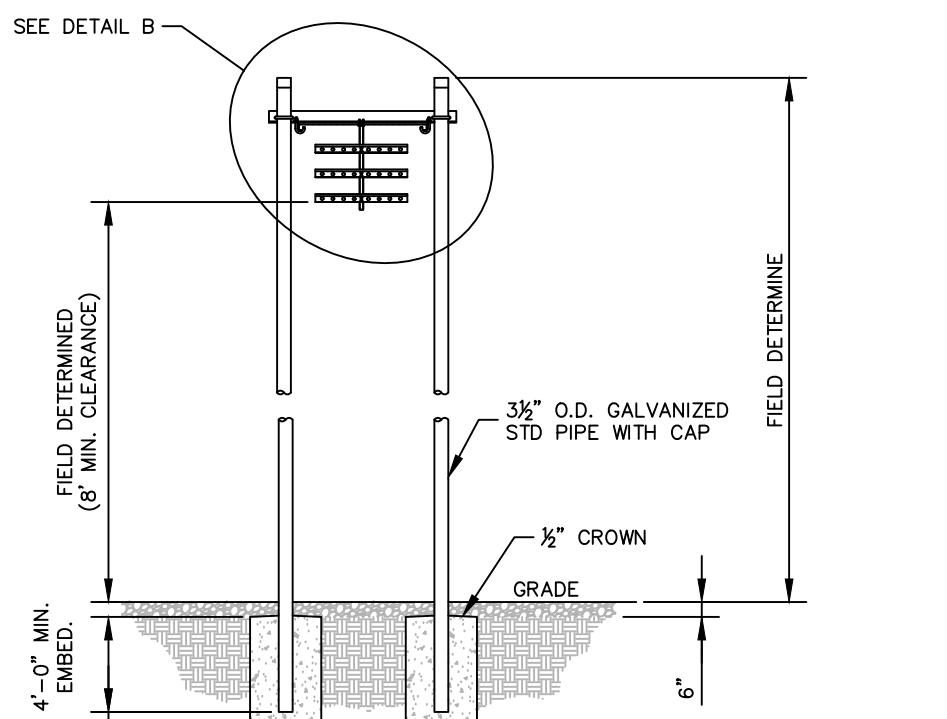
DETAIL A

ANDREW 1 POST WAVEGUIDE BRIDGE KIT (PART #: WB-K210-B15, OR APPROVED EQUIVALENT)

NOTE:

1. ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED.

1 WAVEGUIDE BRIDGE DETAIL
C12 NOT TO SCALE



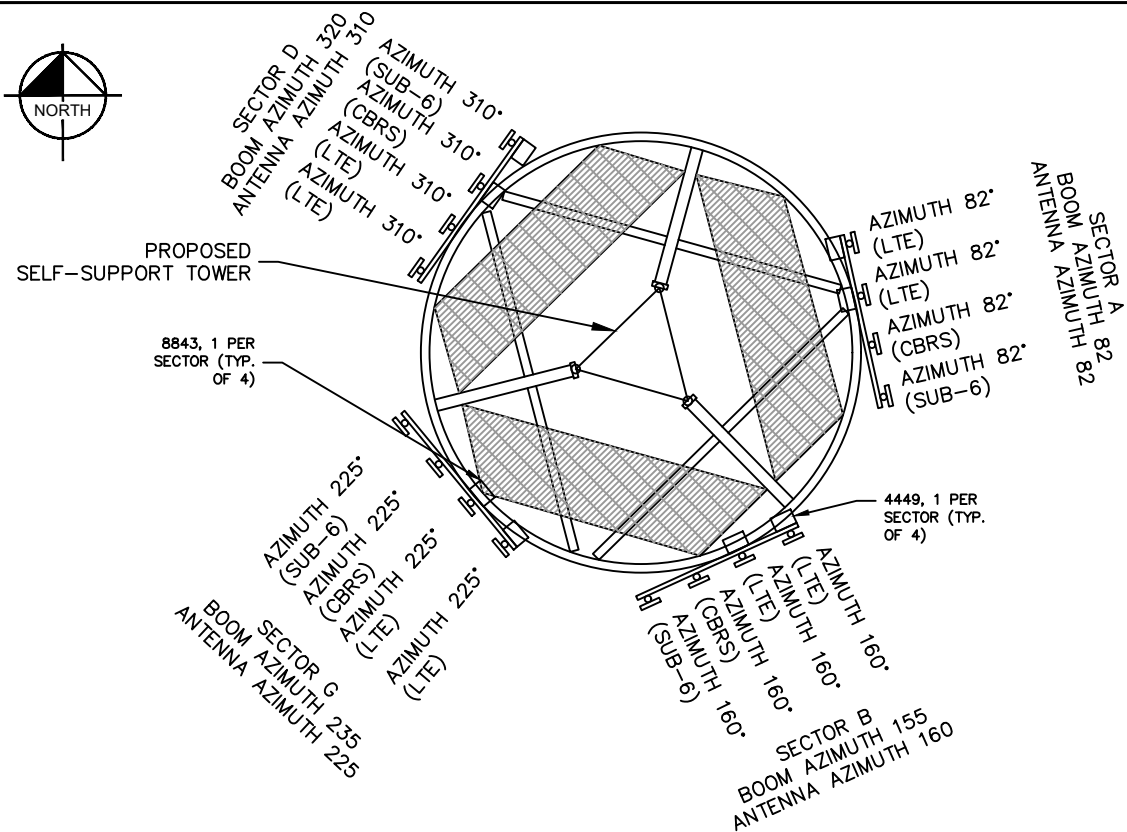
DETAIL B

ANDREW 2 POST WAVEGUIDE BRIDGE KIT (PART #: WB-K410-B15, OR APPROVED EQUIVALENT)

NOTE:

1. ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED.

2 WAVEGUIDE BRIDGE DETAIL (ALT DESIGN - 2 PIPE COLUMNS)
C12 NOT TO SCALE



1 ANTENNA ORIENTATION PLAN
C13

(NOT TO SCALE, FOR ILLUSTRATIVE PURPOSES ONLY, SEE STRUCTURAL ANALYSIS BY OTHERS TO CONFIRM ANTENNA MOUNT TYPE)

NOTE:

- REFER TO RFDS PROVIDED BY VERIZON. CONTRACTOR TO CONTACT THE VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION FOR THE CONSTRUCTION RFDS.
- GENERAL CONTRACTOR TO INSTALL RAYCAP OVP, NUMBER AND TYPE PER VERIZON CONSTRUCTION MANAGER.
- ANTENNA MOUNTING FRAMES MOUNTED TO PLATFORM HANDRAIL
- SECTOR MOUNT TO BE KENWOOD TELECOM CIRCULAR PLATFORM FOR LATTICE TOWERS (PART #: T1515KT-G OR APPROVED EQUAL).
- VERIZON TO ORDER TOWER WITH LEG SPACING OF 60" OR LESS AT SECTOR MOUNT MOUNTING LOCATION.

NOTES:

1. ALL INFORMATION ON THIS PAGE IS PROVIDED BY VERIZON WIRELESS AND/OR OTHERS AND IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL CONTACT THE VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION FOR ALL DETAILED ANTENNA, AND COAX CABLE INFORMATION.

2. REFER TO STRUCTURAL ANALYSIS BY TOWER OWNER FOR ANALYSIS OF PROPOSED TOWER.

3. IT IS UNDERSTOOD THAT KIMLEY-HORN MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE RELATING TO THE STRUCTURAL ADEQUACY OF THE PROPOSED TOWER OR ATTACHMENT OF ANTENNAS OR OTHER APPURTENANCES.

BEACON PER FAA REQUIREMENTS. EXTEND BEACON ABOVE TOP OF ANTENNAS PER VERIZON WIRELESS REQUIREMENTS.

TOP OF LIGHTNING ROD
EL. 264' A.G.L.

TOP OF TOWER
EL. 255' A.G.L.

PROPOSED LESSEE ANTENNAS
EL. 250' A.G.L.

FUTURE ANTENNAS

FUTURE ANTENNAS

FUTURE ANTENNAS

TOWER OBSTRUCTION LIGHTS

PROPOSED 255' SELF SUPPORT TOWER

PROPOSED CHAIN LINK SECURITY FENCE

PROPOSED LESSEE 10' X 4' CONCRETE PAD WITH EQUIPMENT CABINET

EXISTING GRADE
(±0' A.G.L.)

2 SELF-SUPPORT TOWER ELEVATION
C13

NOT TO SCALE

NOTES:

- ALL PROPOSED ATTACHMENTS TO TOWER BASED ON TOWER DESIGN DRAWINGS BY OTHERS (SEE GENERAL NOTE 1.07, SHEET N1).
- THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
- COAX/FIBER CABLE LENGTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY CORRECT LENGTH IN FIELD AT TIME OF CONSTRUCTION.
- PROPOSED TOWER WILL BE GALVANIZED STEEL-GRAY IN COLOR.



8921 RESEARCH DRIVE
CHARLOTTE, NORTH CAROLINA 28262

PROJECT INFORMATION:

SITE NAME:
LUTTERLOH
SITE No.: 431701
PROJECT #: 20192010936
0 NC 87 N
PITTSBORO, NC 27312
CHATHAM COUNTY

PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
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LICENSER:

FOR ILLUSTRATIVE PURPOSES ONLY- NO SIGNATURE REQUIRED

KHA PROJECT NUMBER:

013509278

DRAWN BY: _____ CHECKED BY: _____

WTB DMF

SHEET TITLE:

ANTENNA AND TOWER ELEVATION DETAILS

SHEET NUMBER:

C13



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CHARLOTTE, NORTH CAROLINA 28262

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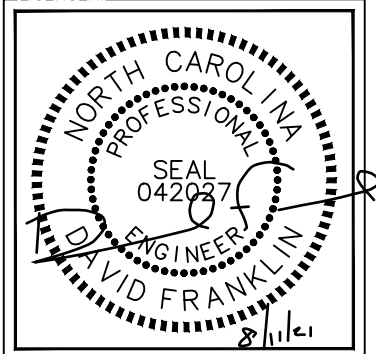


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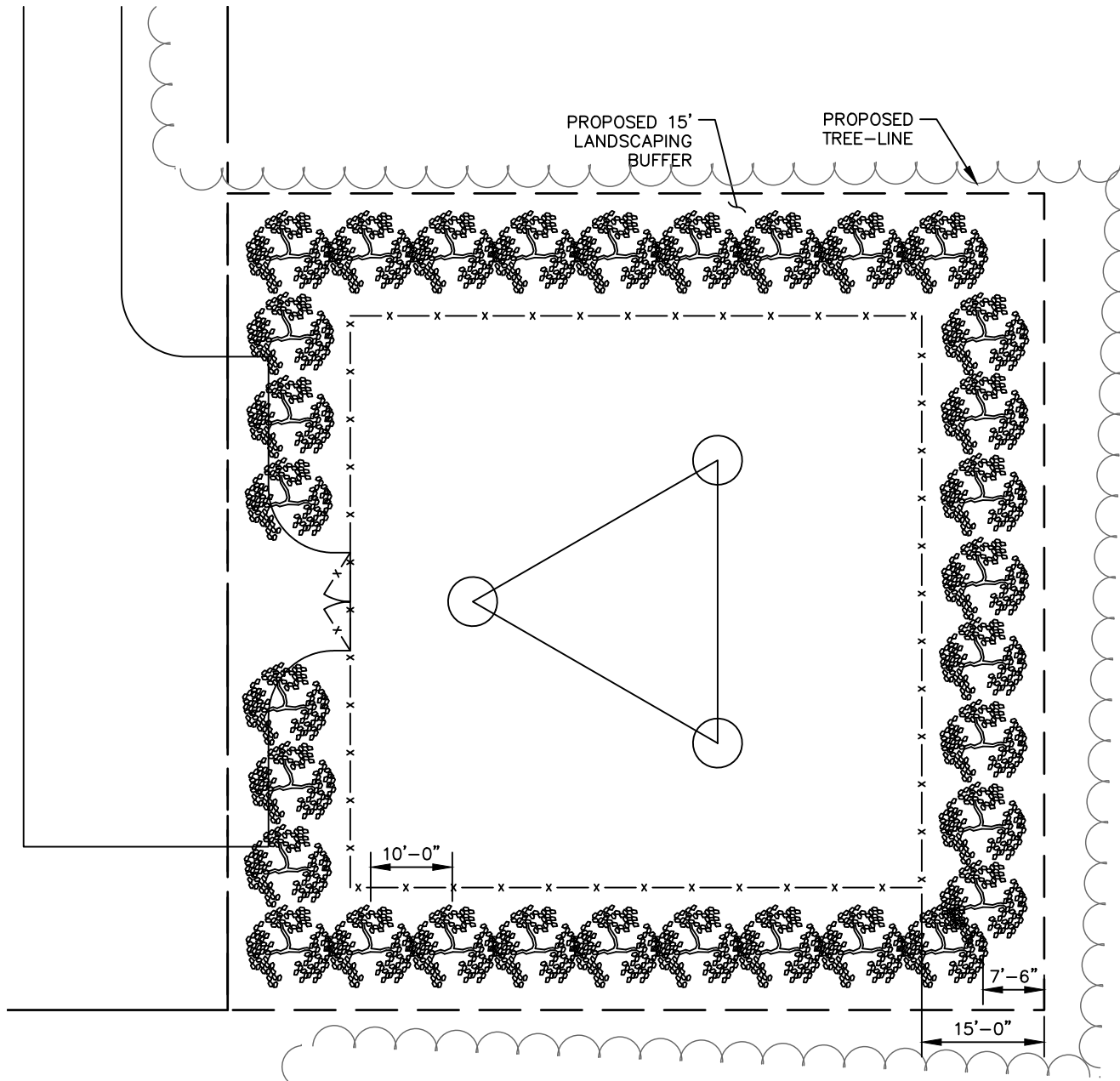
LANDSCAPING
PLAN

SHEET NUMBER:

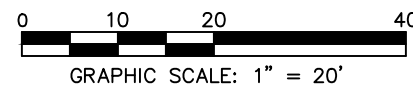
L1

GENERAL LANDSCAPE NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS WORK WITH THAT OF ALL OTHER CONTRACTORS. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITIES. PRIOR TO COMMENCEMENT OF ANY WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES.
2. THE QUALITY AND SIZE OF ALL PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT STANDARDS AS SET FORTH IN ANSI Z60.180 - AMERICAN STANDARD FOR NURSERY STOCK.
3. ALL DISTURBED AREAS NOT COVERED BY HARDSCAPE OR PLANT MATERIALS SHALL BE COVERED WITH SEED AND STRAW.
4. PLANT SUBSTITUTION MAY BE PERMITTED ONLY AFTER PROOF THAT SPECIFIED PLANTS ARE UNAVAILABLE AND THE REQUEST HAS BEEN SUBMITTED TO THE OWNER OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL PROVIDE THE NEAREST EQUIVALENT OBTAINABLE SIZE AND VARIETY OF THE PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS AS THE PLANT SPECIFIED
5. MINOR PLANT LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD TO ENSURE ACCESS TO UTILITY JUNCTION BOXES, FREE SITE LIGHTING OF FUTURE TREE CANOPY INTERFERENCE AND ALLOW UNINHIBITED PEDESTRIAN / VEHICULAR CIRCULATION ON ALL PAVEMENTS OR FOUNDATIONS.
6. ALL SHRUB MASSES OF TWO OR MORE SHALL BE EDGED INTO A PLANTING BED AND MULCHED PER DETAIL. ALL INDIVIDUAL TREES AND SHRUBS SHALL HAVE A MULCH SAUCER EQUAL IN DIAMETER TO THE PLANTING PIT DIAMETER AND SHALL BE MULCHED AS SHOWN ON THE DETAILS. UNLESS OTHERWISE INDICATED, ALL BED EDGES SHALL BE A DEEP CUT CLEAN SPADE EDGE.
7. THE CONTRACTOR SHALL VERIFY THAT EACH TREE OR SHRUB PIT WILL DRAIN BEFORE INSTALLING PLANT MATERIAL. HE SHALL FILL THE HOLE WITH SIX INCHES (6") OF WATER THAT SHOULD PERCOLATE OUT WITHIN TWENTY-FOUR HOURS. SHOULD ANY AREA NOT DRAIN PROPERLY, A PERFORATED DRAIN LINE SHALL BE INSTALLED, OR THE PLANTS RELOCATED.
8. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF HE ENCOUNTERS ANY UNSUITABLE SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, UTILITY LINES, OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS. SHOULD THE CONTRACTOR NOT NOTIFY THE OWNER OF A PROBLEM AREA, HE WARRANTS THAT THE AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF ALL PLANTS INSTALLED.
9. THE CONTRACTOR SHOULD VERIFY LANDSCAPING/TREE PLANTING LOCATIONS WITH THE PUBLIC UTILITIES DEPARTMENT TO AVOID CONFLICTS WITH WATER, SEWER, AND GAS LINES.
10. PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLE SUPERIOR IN FORM, COMPACTNESS AND SYMMETRY. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECT ADULT EGGS, PUPAE OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.
11. THERE SHALL BE NO CIRCLING OR GIRDLING ROOTS. CIRCLING ROOTS SHOULD BE CUT IN AT LEAST ONE PLACE.
12. THERE SHOULD BE ONE DOMINANT LEADER TO THE TOP OF THE TREE WITH THE LARGEST BRANCHES SPACED AT LEAST 6 INCHES APART. THERE CAN BE TWO LEADERS IN THE TOP 10% OF THE TREE IF IT IS OTHERWISE OF GOOD QUALITY.
13. THE TREE CANOPY SHOULD BE SYMMETRICAL AND FREE OF LARGE VOIDS. CLEAR TRUNK SHOULD BE NO MORE THAN 40% OF TREE HEIGHT UNLESS OTHERWISE SPECIFIED IN THE PLANTING SPECIFICATIONS. CLEAR TRUNK SHALL BE OF SUFFICIENT HEIGHT TO CLEAR SURROUNDING USES THAT MAY BE IMPACTED BY THE FUTURE GROWTH OF THE TREE.
14. OPEN TRUNK AND BRANCH WOUNDS SHALL BE LESS THAN 10% OF THE CIRCUMFERENCE AT THE WOUND AND NO MORE THAN 2 INCHES TALL. PROPERLY MADE PRUNING CUTS ARE NOT CONSIDERED OPEN TRUNK WOUNDS. THERE SHOULD BE NO CONKS OR BLEEDING, AND THERE SHOULD BE NO SIGNS OF INSECTS OR DISEASE ON MORE THAN 5% OF THE TREE.
15. IF ANY OF THE ABOVE CONDITIONS ARE NOT MET, TREES MAY BE REJECTED.
16. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING OF THE SITE BY THE LOCAL ARBORIST.



1 LANDSCAPING PLAN
L1 SCALE: 1" = 20'



NOTE:

1. ALL SEASON OPAQUE SCREEN OF AT LEAST 6 FEET IN HEIGHT AND SPACED TO OBSCURE THE SECURITY FENCE WITHIN 4 YEARS OF PLANNING.
2. VEGETATION SHALL NOT BE LESS THAN 2 FEET IN HEIGHT AT TIME OF PLANTING.
3. NO EXISTING VEGETATION SHALL BE REMOVED TO BE REPLACED BY THE LANDSCAPING VEGETATION.

LEGEND	
	AMERICAN HOLLY

PLANTING LIST						
SYM./KEY	QTY.	BOTANICAL NAME	COMMON NAME	SPECIFICATION		
				ROOT	PLANTING HEIGHT	SPACING
TO	32	ILEX OPACA	AMERICAN HOLLY	B&B	4'-5'	10' O.C.