

PLANNING APPLICATION COVER SHEET**PROJECT TYPE: Conditional Use Permit****NO. CUP26-000003****APPLICATION DATE: 03/20/2026****PROPERTY OWNER: BRENT E NOVAK****APPLICANT: Woody Krog****WORK DESCRIPTION: commercial communication tower, 140' plus lightning rod, fenced and rocked compound****SITE ADDRESS: 3127 Sandy Beach Rd NE****PPROPERTY INFORMATION****Planning, Development and Sustainability****913 S. Dubuque St. Iowa City, IA 52240****planning@johnsoncountyiowa.gov. 319-356-6083****<https://www.johnsoncountyiowa.gov/pds>**

March 20, 2026

Joe Wilensky
Planning and Development
913 S Dubuque Street, suite 204
Iowa City, Iowa 52240

RE: Proposed Commercial Communication Tower / Conditional Use Permit / Tillman Infrastructure, LLC / AT&T Wireless
Site name: TI-OPP-28430
Address: XXXX Sandy Beach Road, Solon, IA 52333

Dear Mr. Wilensky:

Please accept this cover letter as required as part of the Submittal Documents for a Conditional Use Permit application for the above proposed commercial communication tower.

- Days and hours of operation: 24/7
- Number of Employees: typically zero on site, occasional technician visits
- Number and Type of parking facilities: 2 – 3 in access easement
- Estimate maximum number of customers expected on site at any one time: 2
- Plan for provision of water and wastewater/septic: n/a
- Type/examples of equipment to be used: electronic cabinets, backup generator
- Signage proposed: typical signage on sheet C-5.1 in submitted construction drawings

Tillman Infrastructure is a build to suit partner with AT&T in this project. AT&T desires to relocate its antennas off an existing tower to this new site per the AT&T Letter of Support included in the application package.

Respectfully submitted,

Woody Krog

Woody Krog

TILLMAN INFRASTRUCTURE

TILLMAN OPP NUMBER: TI-OPP-28430
TILLMAN SITE NAME: Novak SOLON IA TI-05714
SITE ADDRESS: 3127 SANDY BEACH ROAD NE
SOLON, IA 52333
PARCEL ID: 0314153002

CONSTRUCTION APPROVAL	
TILLMAN SITE ACQUISITION MANAGER: _____	DATE: _____
TILLMAN CONSTRUCTION MANAGER: _____	DATE: _____
RF PROJECT MANAGER: _____	DATE: _____
PROJECT MANAGER: _____	DATE: _____



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY: DS
CHECKED BY: MC

REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA
 DATE: 03/13/26



TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
Novak SOLON IA TI-05714
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

SITE INFORMATION

SITE ADDRESS: 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

LATITUDE (NAD 83): 41°49'35.8051"N (41.82661252°)
LONGITUDE (NAD 88): 91°37'27.4383"W (-91.62428842°)

GROUND ELEVATION: 864.91' (AMSL)

JURISDICTION: JOHNSON COUNTY

JURISDICTION CONTACT: JOE WILENSKY
 913 S DUBUQUE STREET, SUITE 204
 IOWA CITY, IA 52240
 319-356-6083
 JWILENSKY@JOHNSONCOUNTYIOWA.GOV

ZONING: AG

PARCEL/MAP NUMBER: 0314153002

LANDLORD OWNER: BRENT NOVAK
 319-558-9784

TOWER OWNER: TILLMAN INFRASTRUCTURE
 152 W. 57TH STREET
 NEW YORK, NEW YORK 10019

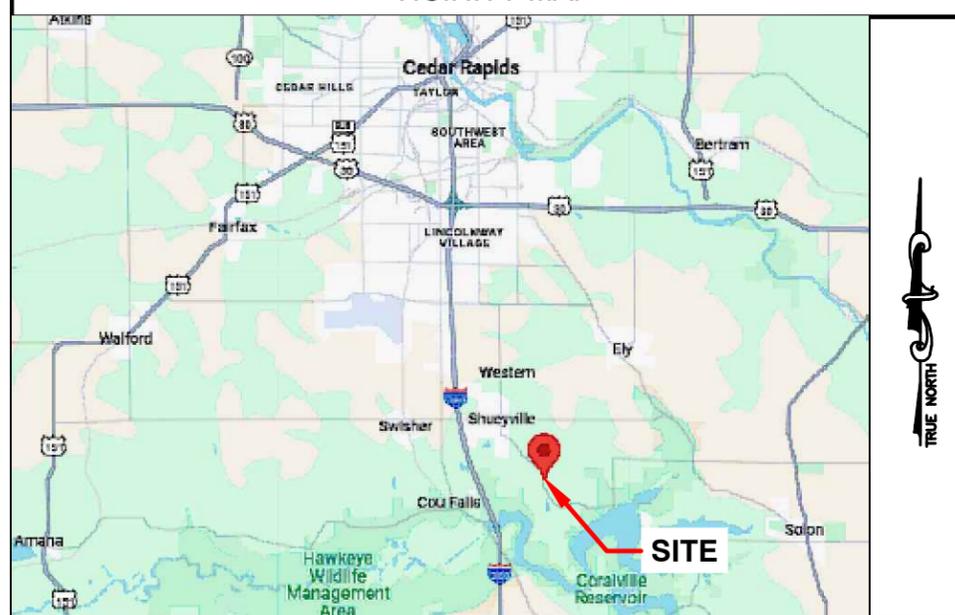
STRUCTURE TYPE: MONOPOLE TOWER

STRUCTURE HEIGHT: 140'-0" (AGL)

POWER SUPPLIER: LINN COUNTY
 PHONE NUMBER: 319-377-1587

FIBER SUPPLIER: SOUTH SLOPE COOPERATIVE TELEPHONE
 PHONE NUMBER: 319-626-2211

VICINITY MAP



DRIVING DIRECTIONS



CODE COMPLIANCE

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

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2018 NFPA 101, LIFE SAFETY CODE
- 2018 INTERNATIONAL FIRE CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSII/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSII/T 311

DRAWING INDEX

- T-1 TITLE SHEET
- B-1 SITE SURVEY
- B-1.1 SITE SURVEY
- B-1.2 SITE SURVEY
- B-1.3 SITE SURVEY
- B-1.4 SITE SURVEY
- C-1 OVERALL SITE PLAN
- C-2 ENLARGED SITE PLAN
- C-3 ELEVATION
- C-4 CONSTRUCTION DETAILS
- C-5 FENCE DETAILS
- C-5.1 SITE SIGNAGE
- C-6 GRADING PLAN
- C-7 EROSION CONTROL DETAILS
- C-8 LANDSCAPE PLAN
- E-1 UTILITY PLAN
- E-2 ENLARGED UTILITY PLAN
- E-3 ELECTRICAL DIAGRAM
- G-1 GROUNDING PLAN
- G-2 GROUNDING DETAILS
- G-3 GROUNDING DETAILS
- C-0 COVER SHEET
- C-1.0 SITE PLAN
- C-2.0 GRADING PLAN
- C-3.0 SITE DETAILS

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

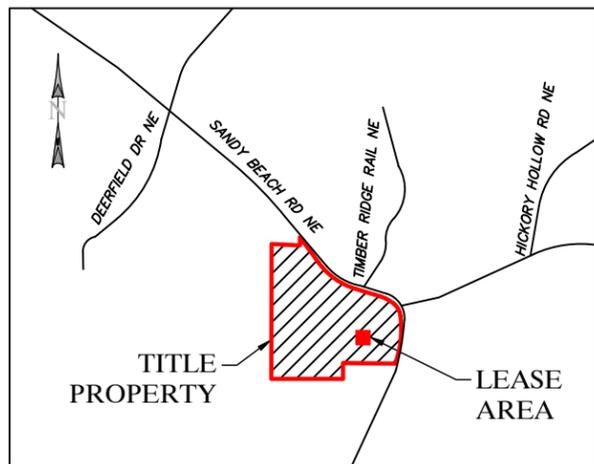
THIS PROJECT CONSISTS OF :

- CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY
- SITE WORK: NEW TOWER, UNMANNED EQUIPMENT CABINET ON PLATFORM, AND UTILITY INSTALLATIONS

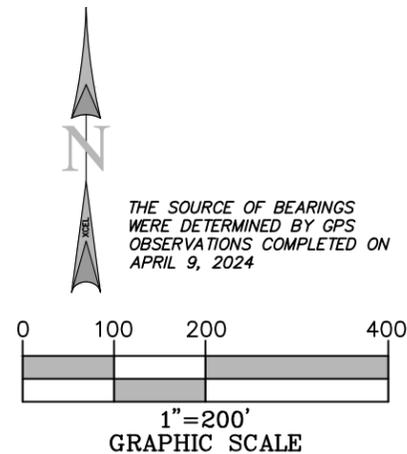


Know what's below.
 Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN IOWA, CALL IOWA ONE CALL
 TOLL FREE: 1-800-292-8989 OR
 www.iowaonecall.com
 IOWA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE



VICINITY MAP
NOT TO SCALE



*** FAA COORDINATE POINT**

NAD 83
 LATITUDE: 41°49'35.8051" (41.82661252)
 LONGITUDE: -91°37'27.4383" (-91.62428842)
 NAVD88
 ELEVATIONS: 864.91'± AMSL

GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY AND FOUND BOUNDARY MONUMENTS WERE ALSO LOCATED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZES AS NETWORK ADJUSTED REAL TIME KINEMATIC (TOPCON VRS NETWORK), NAD 83 IOWA STATE PLANE (IOWA RCS ZONE 10 (CEDAR RAPIDS)).
3. TOPCON HIPER SR RECEIVERS WERE USED TO PERFORM THE SURVEY.

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY XCEL CONSULTANTS TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED EASEMENTS ONLY, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

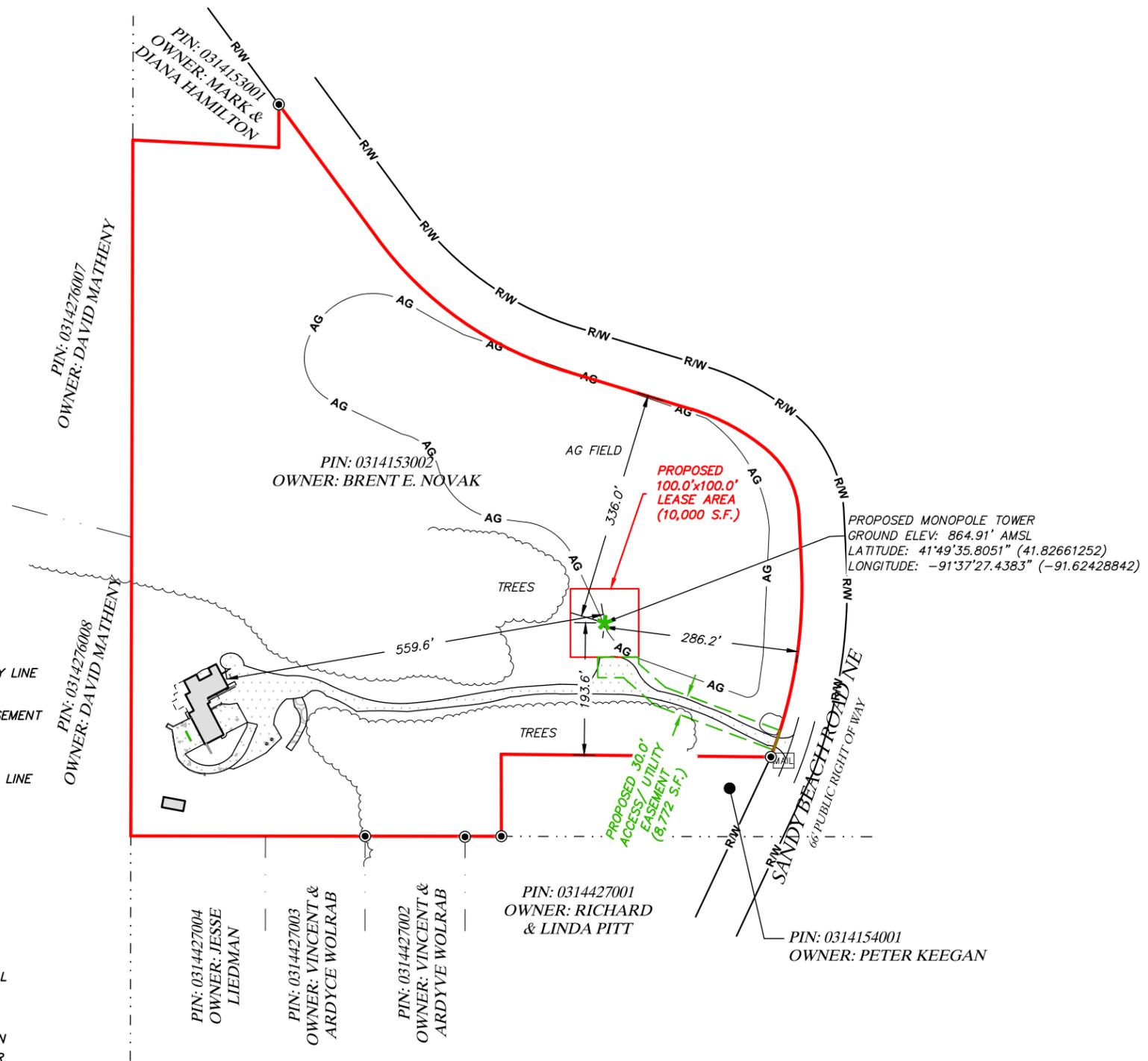
THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY WESTCOR LAND TITLE INSURANCE COMPANY AND TOWER TITLE, LLC, COMMITMENT DATE OF MARCH 8, 2024, BEING FILE/COMMITMENT NO. TIL-169861-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE "X" (AREA OF MINIMAL FLOOD HAZARD) OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 19103C0055E, WHICH BEARS AN EFFECTIVE DATE OF FEBRUARY 16, 2007 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

THE LOCATION OF THE UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES AND PER IOWA ONE CALL DESIGN REQUEST TICKET #552402099. UTILITY SERVICE FOR THIS PROPERTY ARE PROVIDED BY LINN COUNTY REC, MIDAMER-GAS, MEDIACOM, AND SOUTH SLOPE TELEPHONE. ONLY UTILITY MAPS PROVIDED BY SAID COMPANIES ARE SHOWN HEREON. BEFORE DIGGING IN THIS AREA CALL 800-292-8989 AT IOWA ONE CALL.

LEGEND	
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	LEASE LINE
	ACCESS/UTILITY EASEMENT
	RIGHT OF WAY LINE
	CONTOURS
	OVERHEAD ELECTRIC LINE
	BUILDING FEATURE
	BUILDING
	WALL
	CONCRETE SURFACE
	GRAVEL SURFACE
	RIP RAP
	FOUND MONUMENT
	UTILITY POLE
	TELEPHONE PEDESTAL
	GUY WIRE
	MAIL BOX
	FLARED END SECTION
	FIBER OPTIC MARKER
	FIBER OPTIC VAULT
	ELECTRIC PEDESTAL
	METER (ELECTRIC, GAS)
	WELL LID
	CONCRETE BOLLARD
	TRANSFORMER
	POINT OF BEGINNING
	POINT OF COMMENCEMENT
	CENTERLINE OF TOWER LOCATION
	MEASURED & RECORD
	S.F.



SITE SURVEY



I, DAN J. KUEHL, A IOWA PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT THE FIELD SURVEY AND THE COMPILATION OF INFORMATION SHOWN HEREIN WERE CONDUCTED IN ACCORDANCE WITH THE IOWA MINIMUM STANDARDS OF PRACTICE.

Dan J. Kuehl
 OCTOBER 24, 2024
 DAN J. KUEHL
 LICENSE NUMBER 19959
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025
 SHEETS COVERED BY THIS SEAL B-1, B-1.1, B-1.2, B-1.3, AND B-1.4

PREPARED FOR:
TILLMAN INFRASTRUCTURE

PREPARED FOR:
DESIGN 1
 9973 VALLEY VIEW RD.
 EDEN PRAIRIE, MN 55344
 (952) 903-9299
 WWW.DESIGN1EP.COM

SURVEYED BY:
XCEL Consultants
 120 10TH AVENUE EAST, SUITE 3
 MILAN, IL 61264
 (O) 309-787-9988
 (F) 309-756-5540
 (E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 245116

SITE SURVEY		
REV.	DATE	DESCRIPTION
A	5/28/24	ISSUED AS FINAL
B	10/17/24	ADD RESIDENTIAL AREA
C	10/24/24	REISSUED AS FINAL

SITE INFORMATION:
 TI-OPP-28430
 CANDIDATE: A
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333
 JOHNSON COUNTY
 TAX PARCEL NUMBER:
 0314153002
 PROPERTY OWNER:
 BRENT E. NOVAK
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

DRAWN BY: KJM
 CHECKED BY: BCH
 SURVEY DATE: 4/9/2024
 PLAT DATE: 10/24/2024

SHEET TITLE:
SITE SURVEY
 THIS DOES NOT REPRESENT A
 BOUNDARY SURVEY OF THE
 PARENT PARCEL

SHEET NUMBER:
B-1

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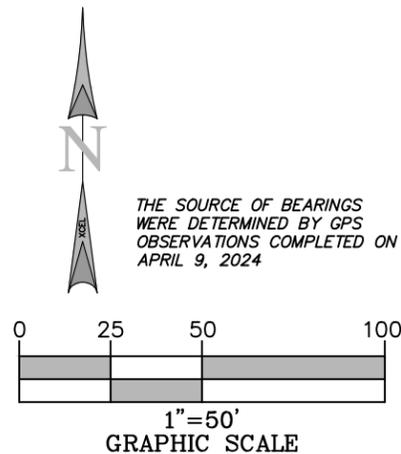
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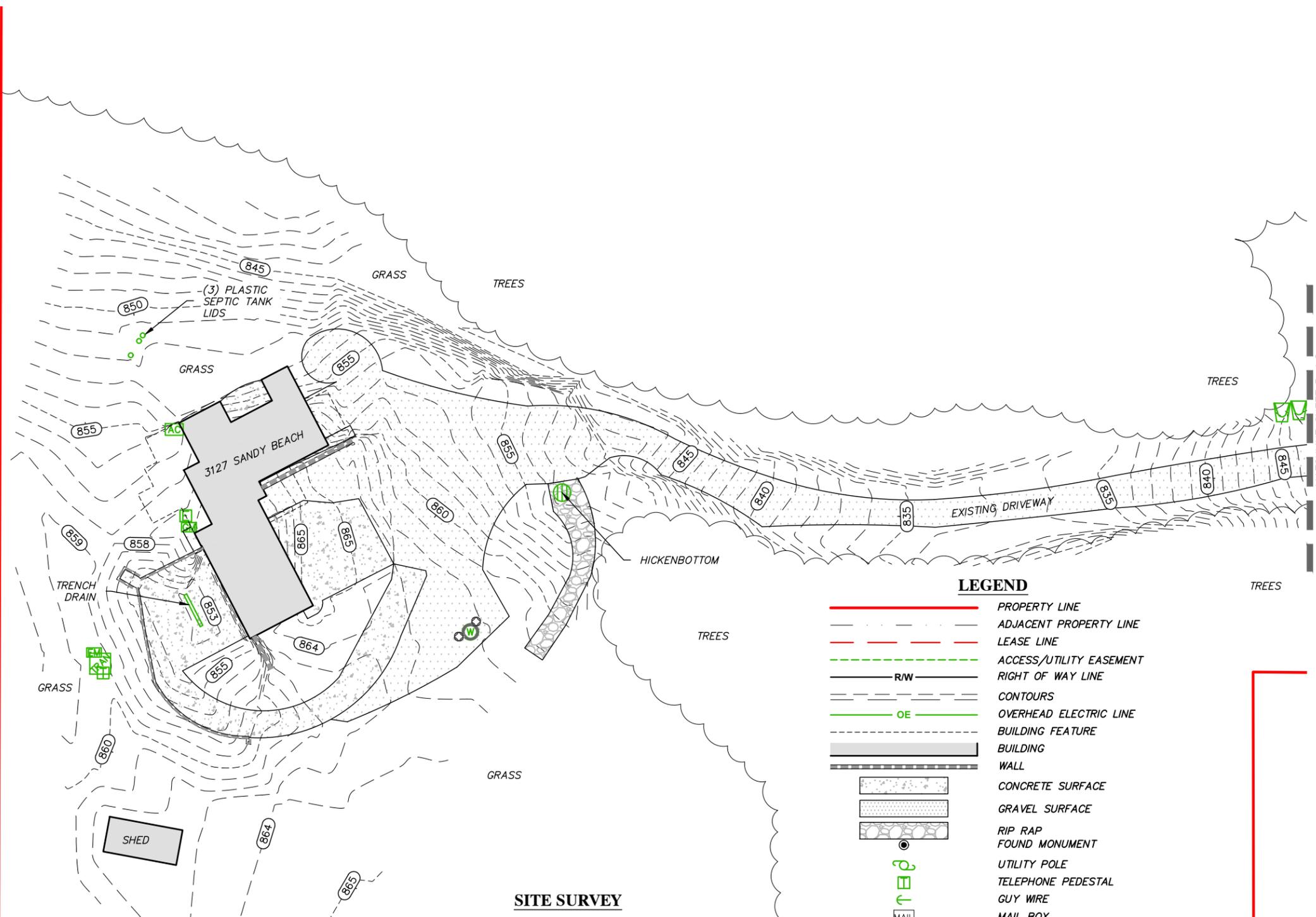
B-1.1



THE SOURCE OF BEARINGS
 WERE DETERMINED BY GPS
 OBSERVATIONS COMPLETED ON
 APRIL 9, 2024

*** FAA COORDINATE POINT**

NAD 83
 LATITUDE: 41°49'35.8051" (41.82661252)
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SITE SURVEY

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- LEASE LINE
- ACCESS/UTILITY EASEMENT
- RIGHT OF WAY LINE
- CONTOURS
- OVERHEAD ELECTRIC LINE
- BUILDING FEATURE
- BUILDING
- WALL
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP RAP
- FOUND MONUMENT
- UTILITY POLE
- TELEPHONE PEDESTAL
- GUY WIRE
- MAIL BOX
- FLARED END SECTION
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- METER (ELECTRIC, GAS)
- WELL LID
- CONCRETE BOLLARD
- TRANSFORMER
- POINT OF BEGINNING
- POINT OF COMMENCEMENT
- CENTERLINE OF TOWER LOCATION
- MEASURED & RECORD
- SQUARE FEET



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 OCTOBER 24, 2024

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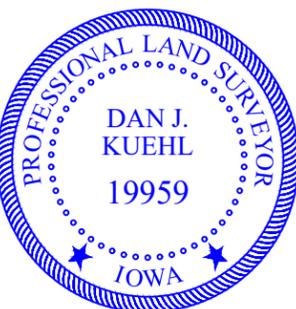
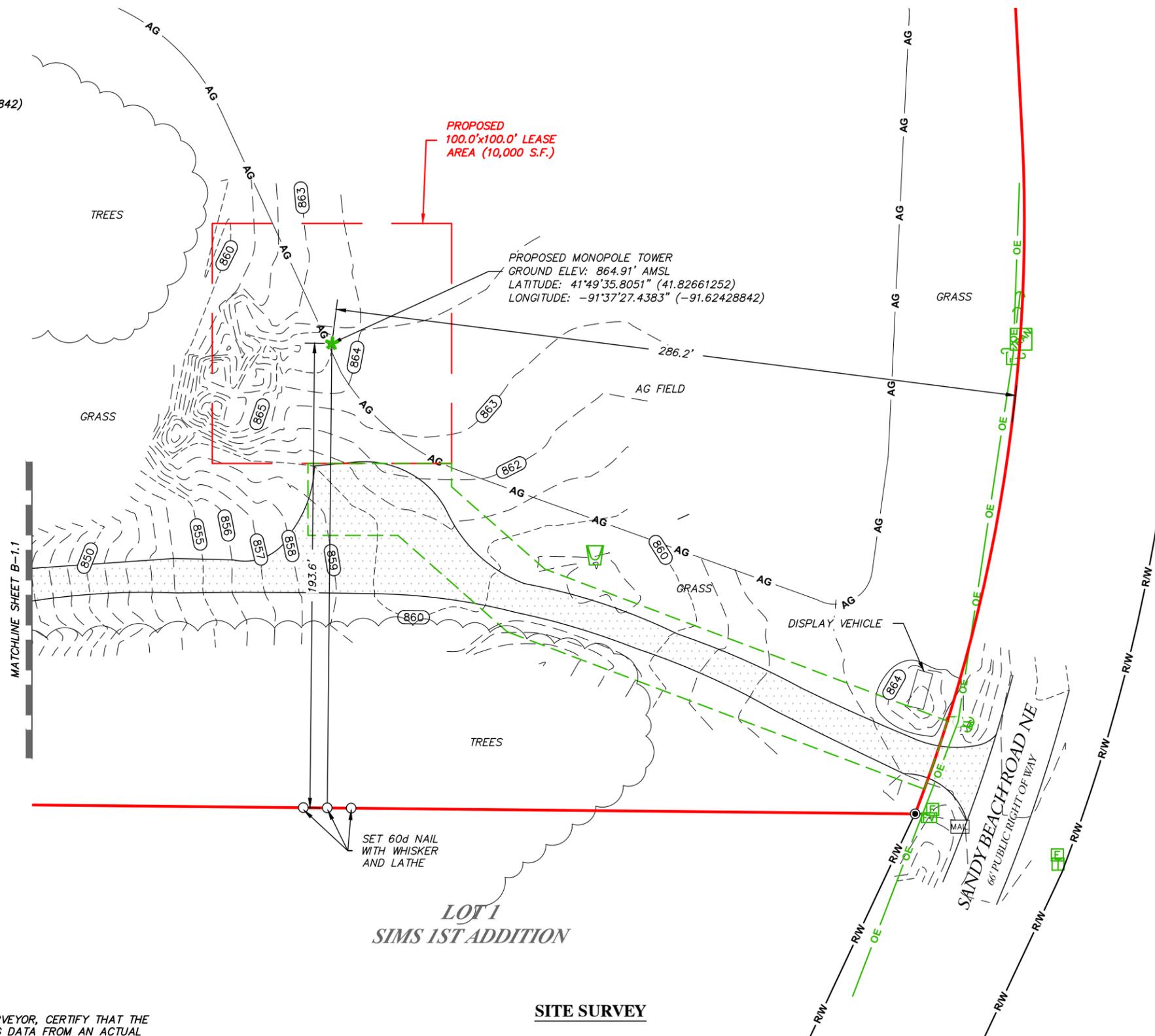


1"=50'
GRAPHIC SCALE

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SITE SURVEY

PREPARED FOR:

TILLMAN INFRASTRUCTURE

PREPARED FOR:

DESIGN 1

9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299
WWW.DESIGN1EP.COM

SURVEYED BY:

XCEL Consultants
120 10TH AVENUE EAST, SUITE 3
MILAN, IL 61264
(O) 309-787-9988
(F) 309-756-5540
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XCEL PROJECT NUMBER: 245116

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JOHNSON COUNTY

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DRAWN BY: KJM
CHECKED BY: BCH
SURVEY DATE: 4/9/2024
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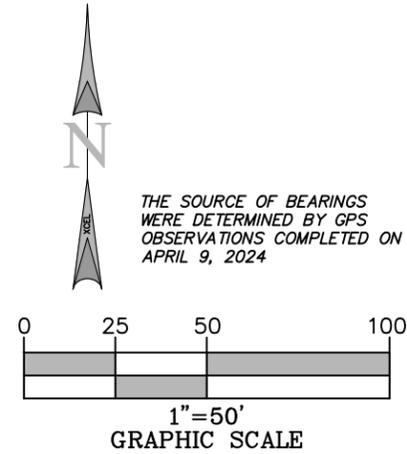
SHEET TITLE:

SITE SURVEY

THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:

B-1.2



THE SOURCE OF BEARINGS
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OBSERVATIONS COMPLETED ON
APRIL 9, 2024

AERIAL PER MICROSOFT BING
MAPS ON APRIL 10, 2024

LEGEND

- PROPERTY LINE
- LEASE AREA
- ACCESS/UTILITY EASEMENT
- CONTOURS
- CENTERLINE OF TOWER LOCATION



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AERIAL SURVEY

I, DAN J. KUEHL, A IOWA PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT THE FIELD SURVEY AND THE COMPILATION OF INFORMATION SHOWN HEREIN WERE CONDUCTED IN ACCORDANCE WITH THE IOWA MINIMUM STANDARDS OF PRACTICE.

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PREPARED FOR:

**TILLMAN
INFRASTRUCTURE**

PREPARED FOR:

**DESIGN
1**

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EDEN PRAIRIE, MN 55344
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SOLON, IA 52333
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PARENT PARCEL

SHEET NUMBER:

B-1.3

REPORT OF TITLE:

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY XCEL CONSULTANTS, INC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENT OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENT, AUGMENTING EASEMENT, IMPLIES OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY WESTCOR LAND TITLE INSURANCE COMPANY AND TOWER TITLE, LLC, COMMITMENT DATE OF MARCH 8, 2024, BEING FILE/COMMITMENT NO. TIL-169861-C, FOR THE SUBJECT PROPERTY, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

NO SURVEY MATTERS NOR EASEMENTS LISTED IN SCHEDULE 'B'.

PARENT PARCEL, LEGAL DESCRIPTION (NOT FIELD SURVEYED) PER TITLE

THE FOLLOWING DESCRIBED REAL ESTATE IN JOHNSON COUNTY, IOWA:

ALL THAT PART OF THE WEST 30 ACRES OF THE SW 1/4 OF THE NE 1/4 OF SECTION 14, TOWNSHIP 81 NORTH, RANGE 7 WEST OF THE 5TH P.M., JOHNSON COUNTY, IOWA, LYING SOUTH OF THE CENTER LINE OF THE PUBLIC ROAD.

EXCEPTING THEREFROM BEGINNING AT THE NORTHWEST CORNER OF SAID SW 1/4 NE 1/4, SECTION 14; THENCE EAST ALONG THE NORTH LINE OF SAID SW 1/4 NE 1/4, SECTION 14, A DISTANCE OF 79.00 FEET TO THE CENTER LINE OF THE PUBLIC ROAD; THENCE SOUTHEASTERLY ALONG THE CENTER LINE OF SAID ROAD A DISTANCE OF 245.6 FEET; THENCE SOUTHWESTERLY A DISTANCE OF 116.5 FEET; THENCE NORTHWESTERLY A DISTANCE OF 213.0 FEET TO A POINT ON THE WEST LINE OF THE SW 1/4 NE 1/4, SAID SECTION 14, WHICH POINT IS 296.0 FEET SOUTH OF THE NORTHWEST CORNER OF SAID SW 1/4 NE 1/4, SECTION 14; THENCE NORTH ALONG SAID WEST LINE A DISTANCE OF 296.0 FEET TO THE POINT OF BEGINNING.

FURTHER EXCEPTING LOT 1, SIMS FIRST ADDITION TO JOHNSON COUNTY, IOWA, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 21, PAGE 24, PLAT RECORDS OF JOHNSON COUNTY, IOWA.

PARCEL ID: 0314153002

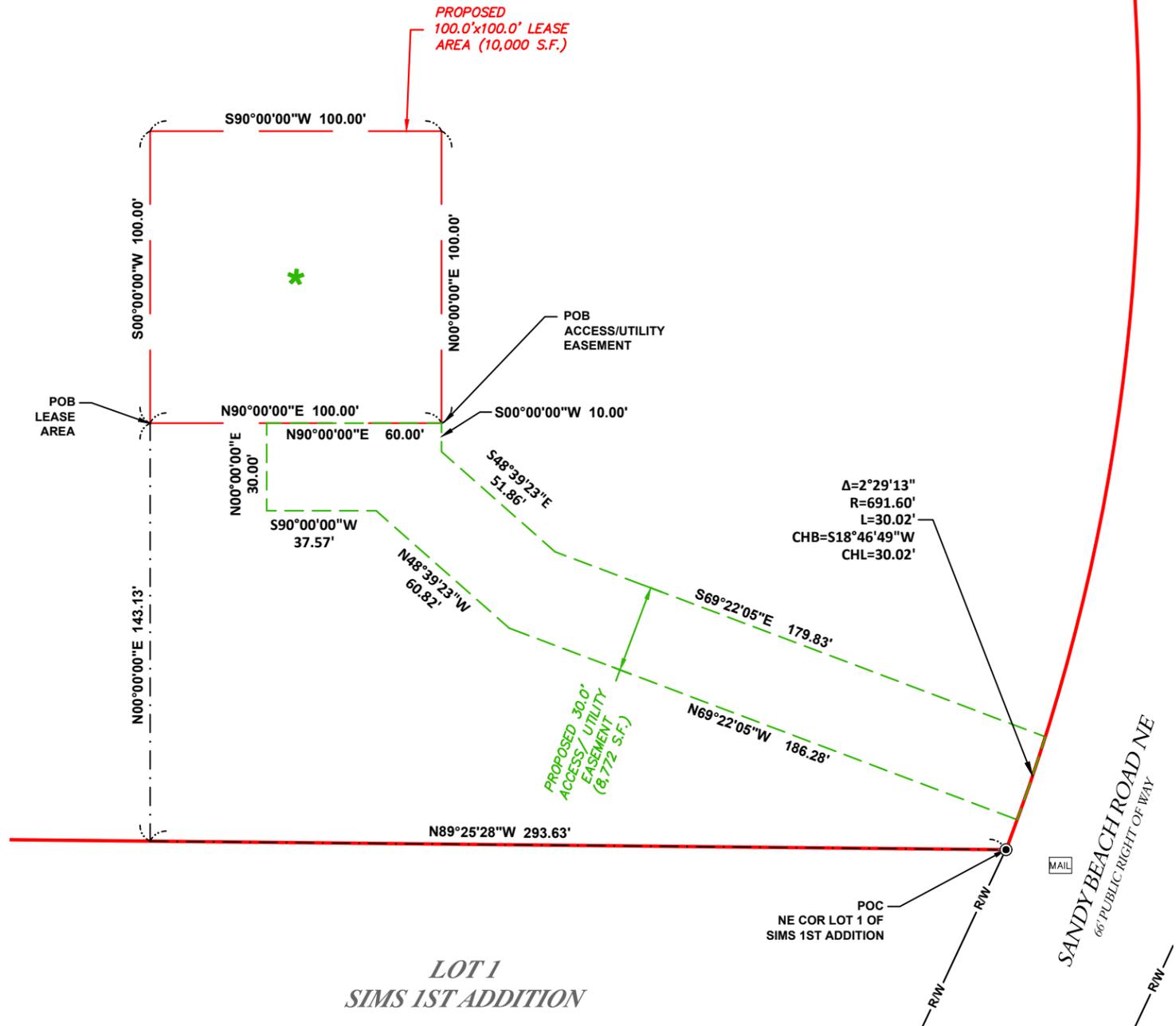
THIS BEING A PORTION OF THE SAME PROPERTY CONVEYED TO BRENT E. NOVAK, IN A DEED FROM NICHOLAS M. PUGH AND DANNISHA A. PUGH, HUSBAND AND WIFE, DATED 5/1/2019 AND RECORDED 5/2/2019, IN BOOK 5898 PAGE 389.

PROPOSED LEASE AREA:

A PART OF THE WEST 30 ACRES OF THE SW 1/4 OF THE NE 1/4 OF SECTION 14, TOWNSHIP 81 NORTH, RANGE 7 WEST OF THE 5TH P.M., JOHNSON COUNTY, IOWA, MORE PARTICULARLY DESCRIBED AS; COMMENCING AT THE NE CORNER OF LOT 1 OF SIMS 1ST ADDITION; THENCE N89°25'28"W, ALONG THE NORTH LINE OF SAID LOT 1 OF SIMS 1ST ADDITION, 293.63 FEET; THENCE N00°00'00"E, 143.13 FEET TO THE POINT OF BEGINNING OF THE LEASE AREA HEREIN INTENDED TO BE DESCRIBED; THENCE N90°00'00"E, 100.00 FEET; THENCE N00°00'00"E, 100.00 FEET; THENCE S90°00'00"W, 100.00 FEET; THENCE S00°00'00"W, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,000 SQUARE FEET.

PROPOSED ACCESS/UTILITY EASEMENT:

A PART OF THE WEST 30 ACRES OF THE SW 1/4 OF THE NE 1/4 OF SECTION 14, TOWNSHIP 81 NORTH, RANGE 7 WEST OF THE 5TH P.M., JOHNSON COUNTY, IOWA, MORE PARTICULARLY DESCRIBED AS; COMMENCING AT THE NE CORNER OF LOT 1 OF SIMS 1ST ADDITION; THENCE N89°25'28"W, ALONG THE NORTH LINE OF SAID LOT 1 OF SIMS 1ST ADDITION, 293.63 FEET; THENCE N00°00'00"E, 143.13 FEET; THENCE N90°00'00"E, 100.00 FEET TO THE POINT OF BEGINNING OF THE EASEMENT AREA HEREIN INTENDED TO BE DESCRIBED; THENCE S00°00'00"W, 10.00 FEET; THENCE S48°39'23"E, 51.86 FEET; THENCE S69°22'05"E, 179.83 FEET TO THE WEST LINE OF SANDY BEACH ROAD NE; THENCE SOUTHWESTERLY, ALONG THE SAID WEST LINE, BEING THE ARC OF A CURVE, CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 691.60 FEET, AN ARC LENGTH OF 30.02 FEET, CHORD OF SAID CURVE BEARS S18°46'49"W, 30.02 FEET; THENCE N69°22'05"W, 186.28 FEET; THENCE N48°39'23"W, 60.82 FEET; THENCE S90°00'00"W, 37.57 FEET; THENCE N00°00'00"E, 30.00 FEET TO THE SOUTH LINE OF THE PROPOSED LEASE; THENCE N90°00'00"E, 60.00 FEET TO THE POINT OF BEGINNING, CONTAINING 8,772 SQUARE FEET.



I, DAN J. KUEHL, A IOWA PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION AND THAT THE FIELD SURVEY AND THE COMPILATION OF INFORMATION SHOWN HEREIN WERE CONDUCTED IN ACCORDANCE WITH THE IOWA MINIMUM STANDARDS OF PRACTICE.

Dan J. Kuehl
OCTOBER 24, 2024
DAN J. KUEHL
LICENSE NUMBER 19959
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025
SHEETS COVERED BY THIS SEAL B-1, B-1.1, B-1.2, B-1.3, AND B-1.4

PREPARED FOR:
TILLMAN INFRASTRUCTURE

PREPARED FOR:
DESIGN 1
9973 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55344
(952) 903-9299
WWW.DESIGN1EP.COM

SURVEYED BY:
XCEL Consultants
120 10TH AVENUE EAST, SUITE 3
MILAN, IL 61264
(O) 309-787-9988
(F) 309-756-5540
(E) XCEL@XCELCONSULTANTSINC.COM

XCEL PROJECT NUMBER: 245116

SITE SURVEY

REV.	DATE	DESCRIPTION
A	5/28/24	ISSUED AS FINAL
B	10/17/24	ADD RESIDENTIAL AREA
C	10/24/24	REISSUED AS FINAL

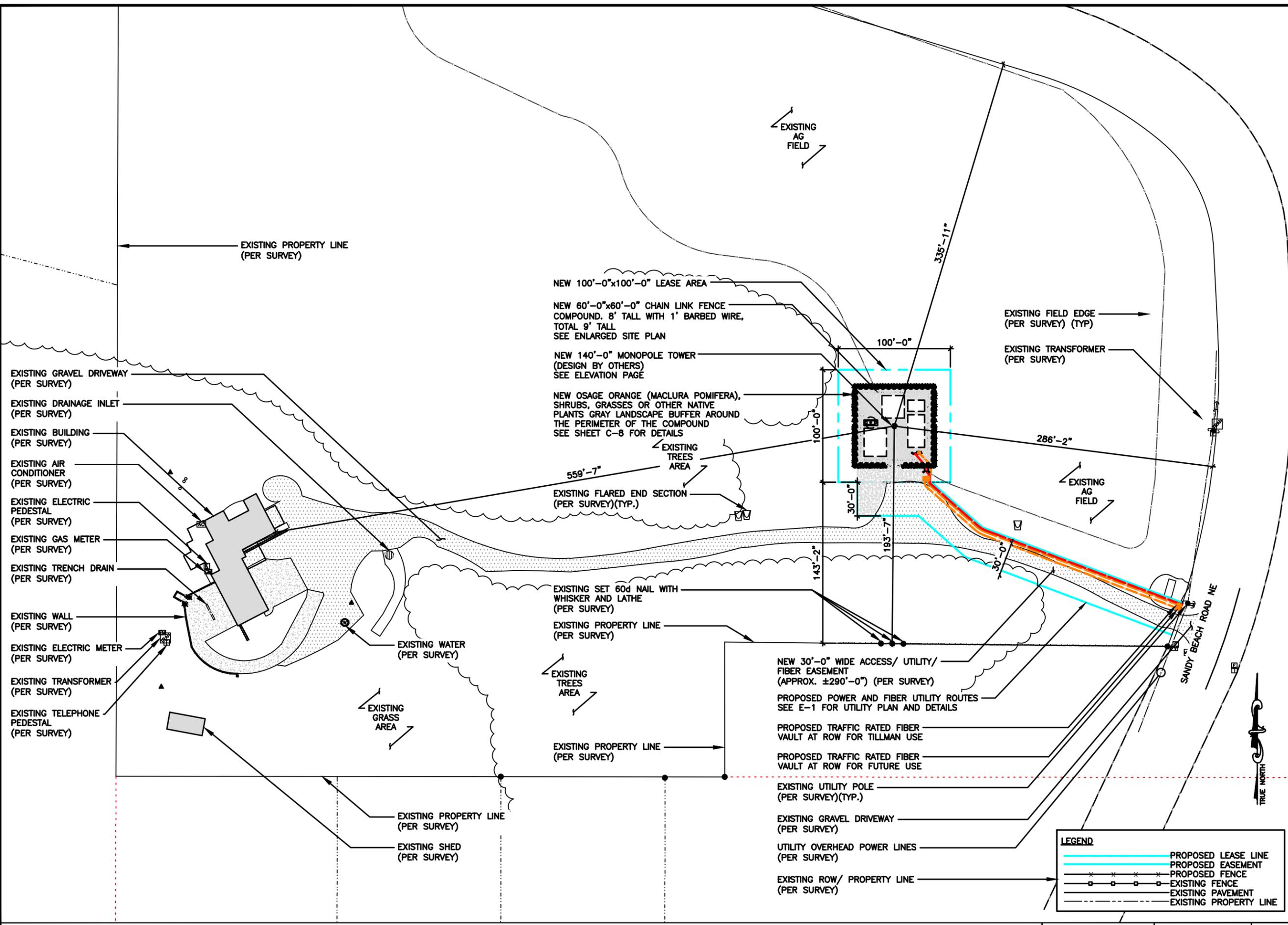
SITE INFORMATION:
TI-OPP-28430
CANDIDATE: A
3127 SANDY BEACH ROAD NE
SOLON, IA 52333
JOHNSON COUNTY
TAX PARCEL NUMBER:
0314153002
PROPERTY OWNER:
BRENT E. NOVAK
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

DRAWN BY: KJM
CHECKED BY: BCH
SURVEY DATE: 4/9/2024
PLAT DATE: 10/24/2024

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER:
B-1.4

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



DRAWN BY: DS
CHECKED BY: MC

REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA
DATE: 03/13/26



TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
Novak SOLON IA TI-05714
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1

LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING PROPERTY LINE

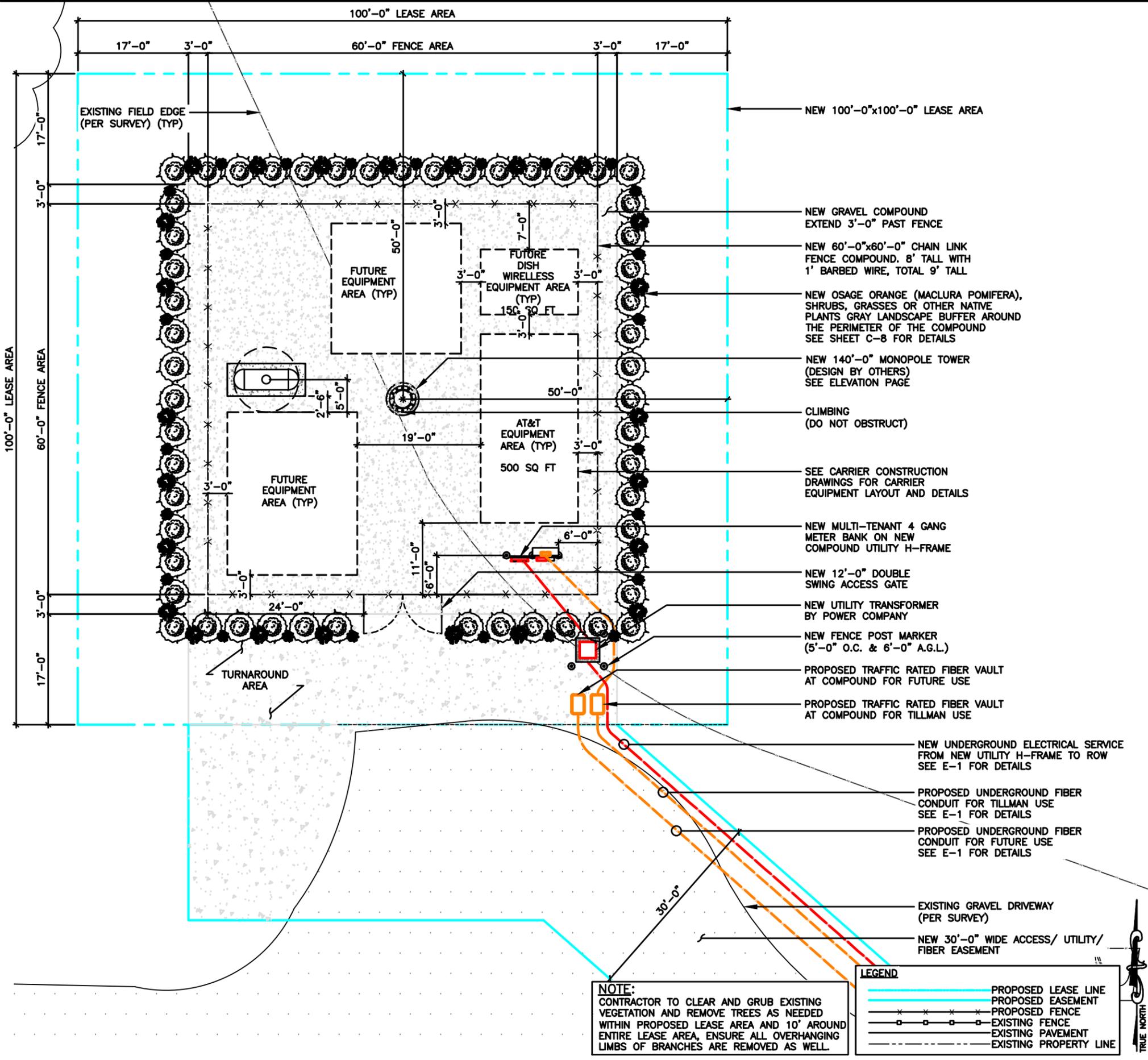
SCALE: 1" = 40'-0" (24x36)
(OR) 1/2" = 40'-0" (11x17)



THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

GENERAL NOTES

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE TILLMAN CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT PRIOR TO EXCAVATION AT SITE.
- ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
- THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
 MAXIMUM SOIL LIFTS:
 JUMPING JACK - 3"
 CROWS FOOT TRENCH ROLLER - 6"
 HOE OPERATED VIBRATORY PLATE - 8"
 WHEELED VIBRATORY SOIL COMPACTOR - 12"
 *LIFT HEIGHTS MAY NEED TO BE ADJUSTED DEPENDING ON SOIL TYPES AND MOISTURE CONTENT.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
- THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS (REFER TO GRADING PLAN).
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY.
- UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.



NOTE:
 CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION AND REMOVE TREES AS NEEDED WITHIN PROPOSED LEASE AREA AND 10' AROUND ENTIRE LEASE AREA, ENSURE ALL OVERHANGING LIMBS OF BRANCHES ARE REMOVED AS WELL.

LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING PROPERTY LINE

SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY: DS
 CHECKED BY: MC

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TILLMAN OPP# TI-OPP-28430
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 Novak SOLON IA TI-05714
 SITE ADDRESS:
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 SOLON, IA 52333

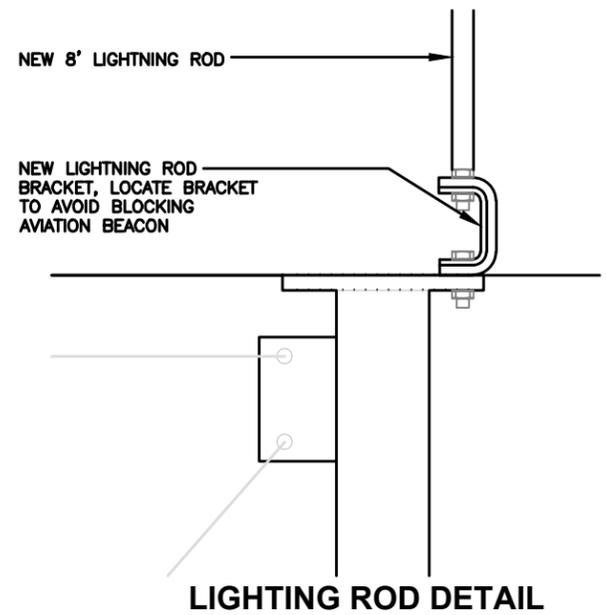
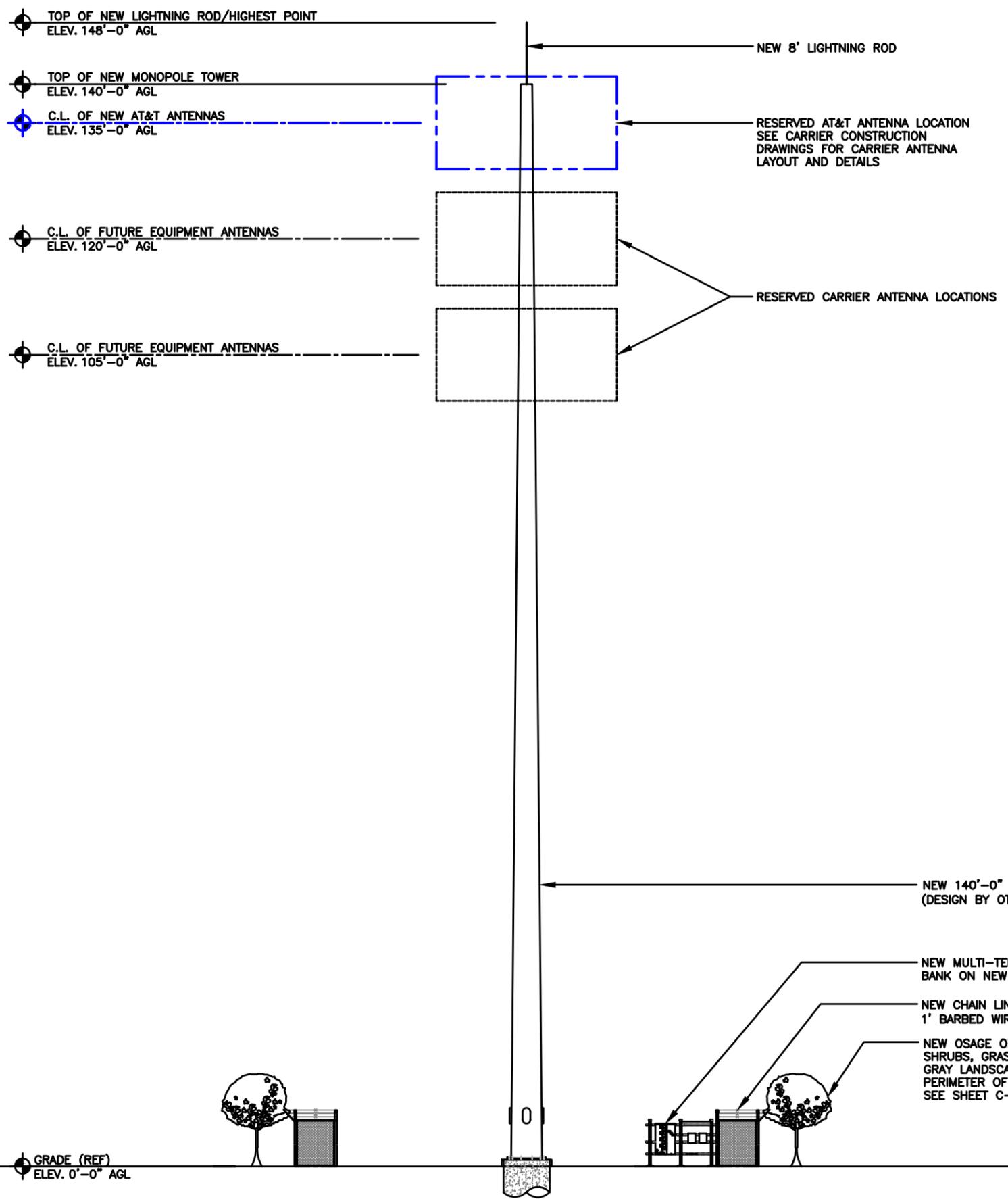
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-2

ENLARGED SITE PLAN



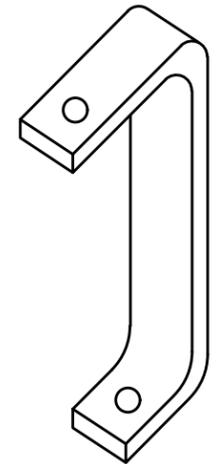
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LIGHTNING ROD DETAIL

NOTE:
TOWER STRUCTURAL ANALYSIS AND DESIGN BY OTHERS
TOWER FOUNDATION ANALYSIS AND DESIGN BY OTHERS

NOTE:
GENERAL CONTRACTOR SHALL MAKE SURE
SAFETY CLIMB IS 100% FREE OF CABLES AND
MOUNTS AFTER INSTALL IS COMPLETE.



LIGHTNING ROD BRACKET



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BARRINGTON, IL 60010
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DATE: 03/13/26
PROFESSIONAL ARCHITECT
JOHN M. BANKS
04994
IOWA
EXP. DATE: 08/30/2028

TILLMAN OPP# TI-OPP-28430
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SOLON, IA 52333

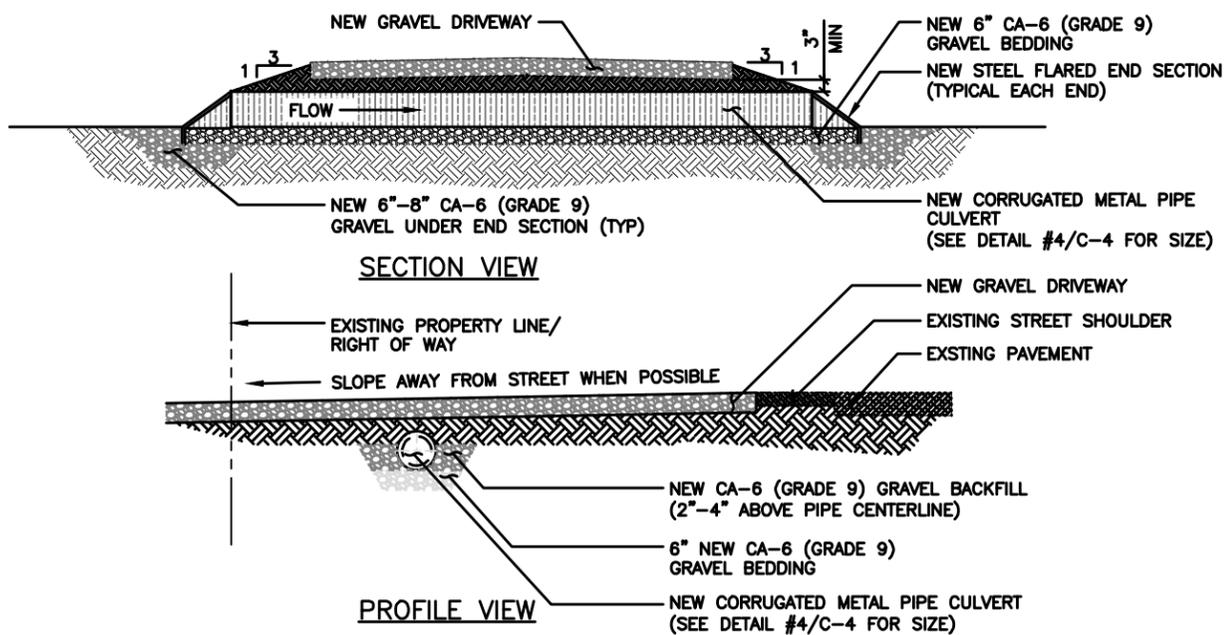
SHEET TITLE
ELEVATION

SHEET NUMBER
C-3

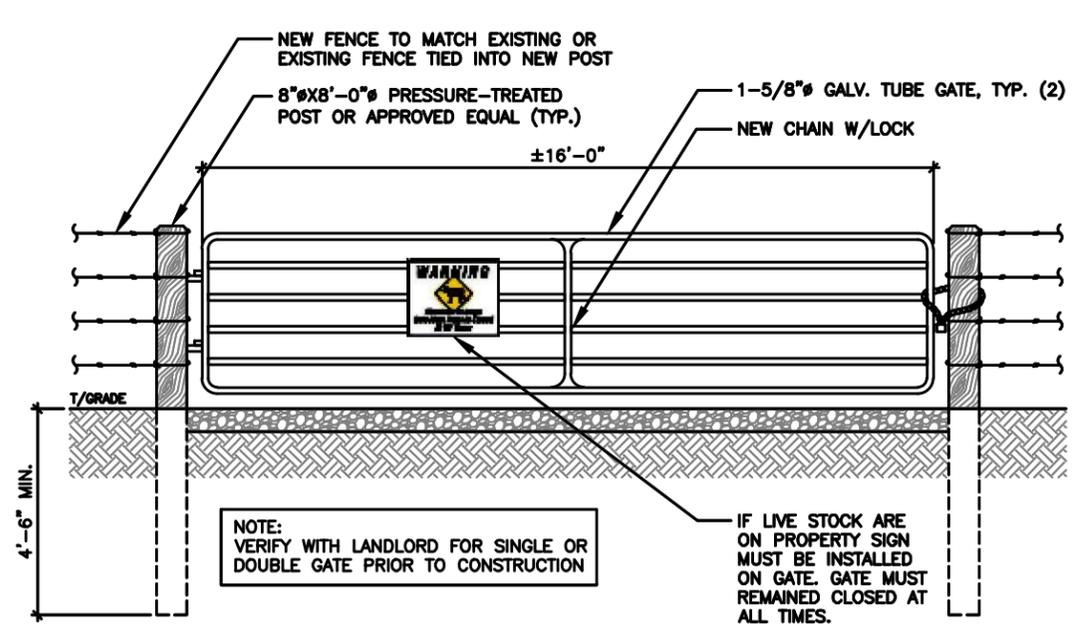
ELEVATION

SCALE
N.T.S. **1**

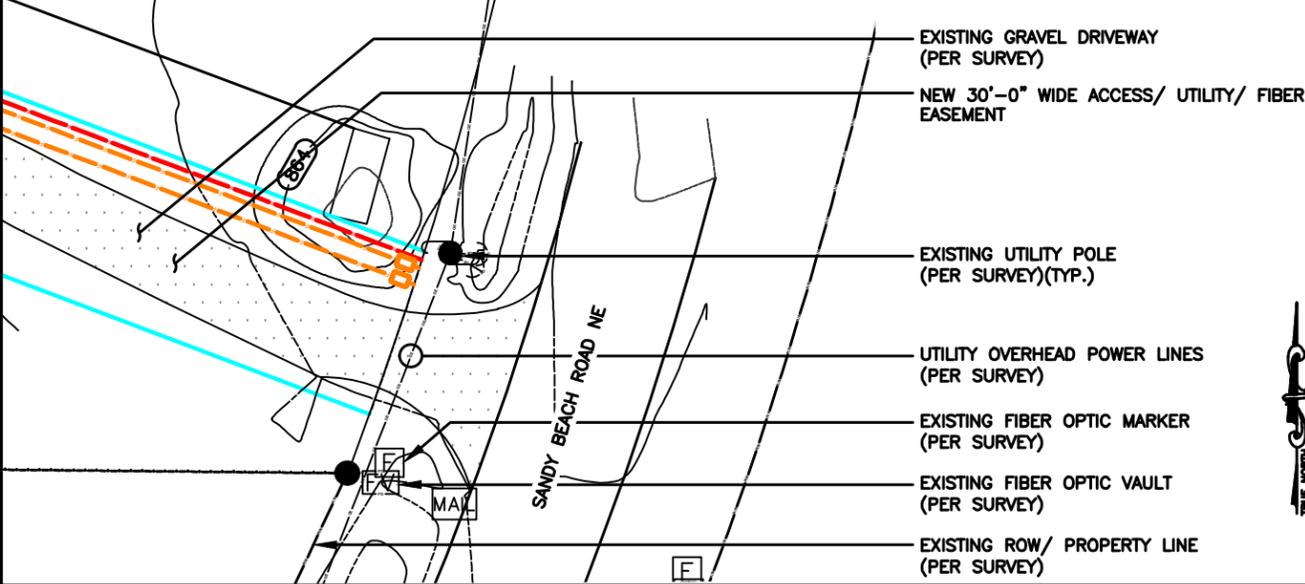
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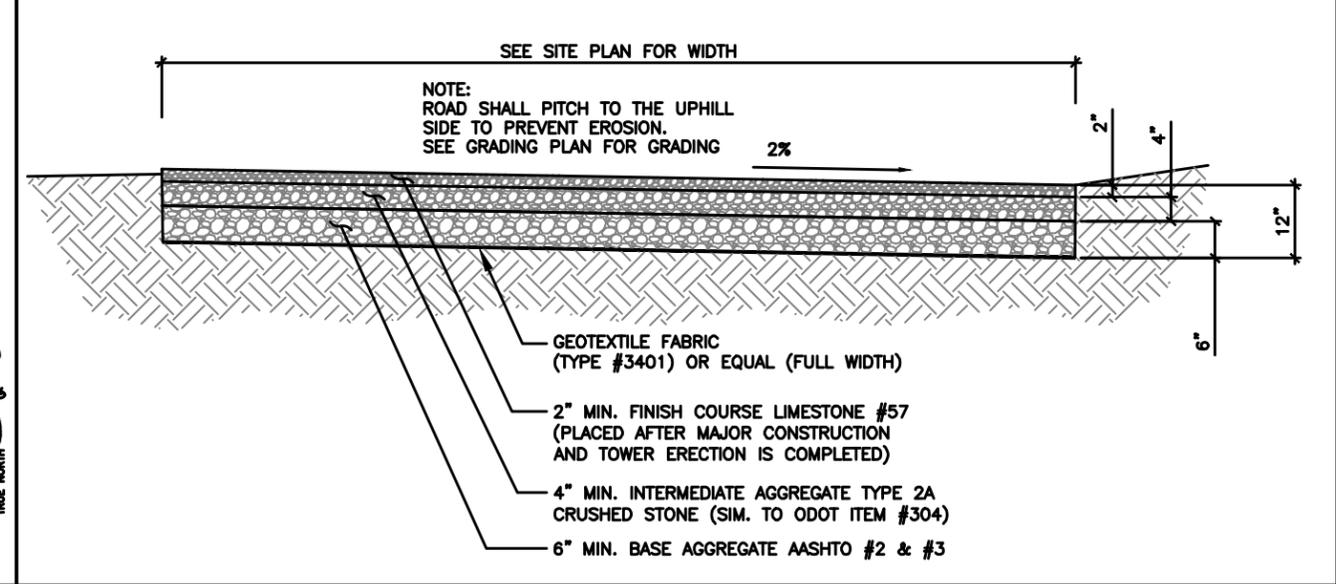
CULVERT DETAIL (IF REQUIRED) SCALE N.T.S. **6**



CATTLE/ STREET GATE DETAIL (IF REQUIRED) SCALE N.T.S. **5**



ACCESS DRIVEWAY @ STREET DETAIL SCALE N.T.S. **4**



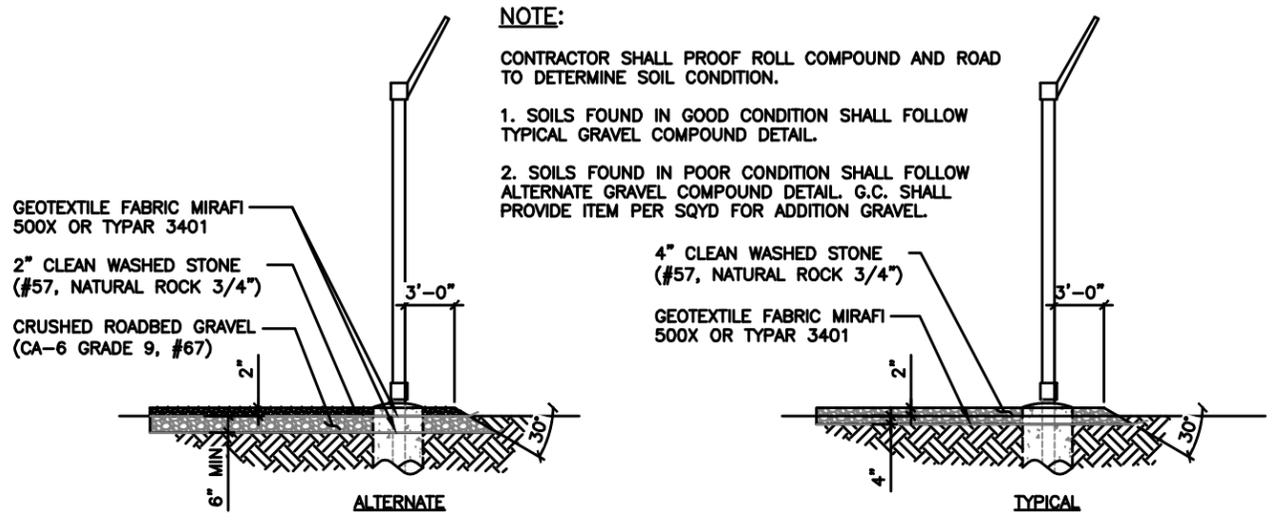
ACCESS DRIVE DETAIL SCALE N.T.S. **3**

ASPHALT APRON- (IF REQUIRED)
 8" OF 304 AGGREGATE STONE (2 LIFTS)
 4" OF 404 BITUMINOUS ASPHALT (2 LIFTS)

CONCRETE APRON- (IF REQUIRED)
 CLASS C CONCRETE IS REQUIRED FROM EDGE OF PAVEMENT TO R/W. THE SLAB MUST BE 5" THICK. ONE INCH EXPANSION MATERIAL REQUIRED AGAINST ANY EXISTING CONCRETE. NO MORE THAN 2% CALCIUM CHLORIDE ADDED TO MIX. NO MORE THAN 2 GALLONS OF WATER PER CUBIC YARD ADDED TO MIX AT THE BEGINNING OF LOAD. NO WATER SPRAY ON MIX AFTER MATERIAL IS PLACED IN FORMS. NO MORE THAN A 5" SLUMP IN THE CONCRETE MIX.

NOTE: TILLMAN GC TO VERIFY WITH DRIVEWAY PERMIT/JURISDICTION

DRIVEWAY APRON NOTES SCALE N.T.S. **2**



GRAVEL COMPOUND DETAIL SCALE N.T.S. **1**



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 604 FOX GLEN
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 TELEPHONE: 847.277.0070
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 AEWESTCHESTERSERVICES.COM

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DATE: 03/13/26

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 JOHN M. BANKS
 04994
 IOWA
 EXP. DATE: 08/30/2028

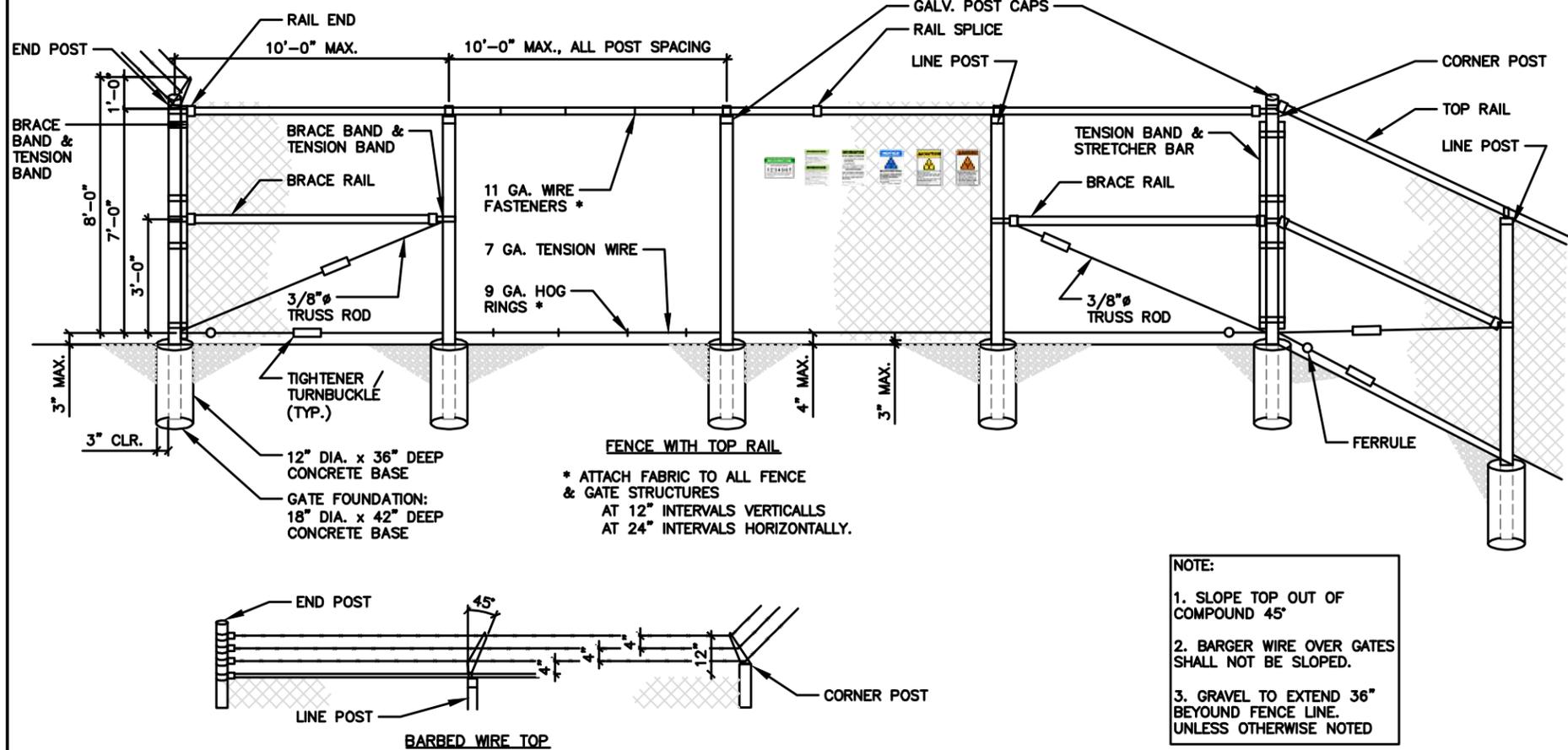
TILLMAN OPP# TI-OPP-28430
 TILLMAN SITE NAME:
 Novak SOLON IA TI-05714
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
 CONSTRUCTION
 DETAILS

SHEET NUMBER
C-4

WOVEN WIRE FENCE NOTES:
(INSTALL FENCING PER ASTM F-567) (SWING GATES PER ASTM F-900)

- ALL FABRIC, WIRE RAILS, POLES, HARDWARE, AND OTHER STEEL MATERIAL SHALL BE HOT-DIPPED GALVANIZED AND CONFORM TO ALL ASTM REGULATIONS FOR GALVANIZING.
- THE CONTRACTOR SHALL MATCH THE FENCING HEIGHT, STYLE, BANDING, BARBED WIRE, SUPPORTS, AND MEASUREMENTS OF THE EXISTING FENCE WHEREVER THE PROJECT REQUIRES THE EXTENSION OR MODIFICATIONS OF AN EXISTING COMPOUND.
- THE FABRIC SHALL BE 6'-0" HIGH WITH 2'X2' 9-GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A TWISTED AND BARNED FINISH FOR THE TOP EDGES AND A KNUCKLED FINISH FOR THE BOTTOM EDGES.
- BARBED WIRE IS REQUIRED ON ALL FENCING AND SHALL BE DOUBLE-STRAND, 12-GAUGE TWISTED WIRE, WITH 14-GAUGE 4 POINT ROUND BARBS SPACED AT 5" ON CENTER.
- ALL POSTS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE OF THE FOLLOWING DIAMETERS:
 - LINE POSTS: 2-3/8"
 - END/CORNER POSTS: 3-1/2"
 - GATE POSTS: 4-1/2"
- EXTEND GATE, CORNER, AND END POSTS 1'-0" INCLUDED THE METAL DOME CAP TO PROVIDE FOR ATTACHMENT OF THE BARBED WIRE.
- ALL TOP AND BRACE RAILS SHALL BE 1-5/8" OUTSIDE DIAMETER SCHEDULE 40 PIPE WITH MECHANICAL BRACE, SECURED IN PLACE BY USE OF BRACE CLAMPS.
- GATE FRAMES SHALL BE FULLY WELDED AND HAVE A FULL HEIGHT VERTICAL BRACE AND A FULL WIDTH HORIZONTAL BRACE.
- HINGES SHALL BE A MINIMUM OF 200 DEGREES WITH A HINGE ADAPTER.
- LATCHES, STOPS, AND KEEPERS SHALL BE PROVIDED FOR ALL GATES.
- THE GUIDE LATCH ASSEMBLY SHALL BE TAMPER PROOF.
- ALL STOPS AND DOUBLE GATES SHALL HAVE A FULL HEIGHT PLUNGE BAR WITH A METAL DOME CAP.
- USE A NO. 7-GAUGE ZINC COATED TENSION WIRE AT THE BOTTOM OF THE FABRIC THAT IS TERMINATED WITH BEND CLIPS AT THE CORNER AND GATE POSTS.
- USE A 6'X1/2" EYEBOLT TO HOLD TENSION WIRE AT THE LINE POSTS.
- STRETCHER BARS SHALL BE 3/16'X3/4" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
- ALL CORNER AND END PANELS SHALL HAVE A 3/8" TRUSS ROD WITH TURNBUCKLES AND BE BRACED WITH 1-5/8" HORIZONTAL COMPRESSION MEMBERS, SECURELY ATTACHED WITH IRON FITTINGS.
- ALL OTHER HARDWARE SHALL BE PROVIDED AS NECESSARY TO ATTACH, TENSION, CLIP, BAND, HINGE, FASTEN, AND FINISH THE FENCING PROPERLY.
- BARBED WIRE SUPPORT ARMS SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH SET BOLT AND LOCK WIRE IN THE ARM.
- POSTS SHALL BE SET IN 2,500 PSI MINIMUM CONCRETE.
- ALL POSTS SHALL HAVE A MINIMUM OF 6" OF CONCRETE UNDER THE LOWER MOST PORTION.
- ALL FENCE POSTS SHALL BE SCHEDULE 40 GALVANIZED STEEL POSTS WITH SET BOLT AND LOCK WIRE IN THE ARM
- ATTACH FABRIC TO THE BRACE RAILS, TENSION WIRE AND TRUSS RODS WITH THE TIE CLIPS AT 2'-0" INTERVALS.



NOTE:

- SLOPE TOP OUT OF COMPOUND 45°
- BARGER WIRE OVER GATES SHALL NOT BE SLOPED.
- GRAVEL TO EXTEND 36" BEYOND FENCE LINE, UNLESS OTHERWISE NOTED

FENCE/ GATE & GATE STOP DETAIL

SCALE: 4
N.T.S.

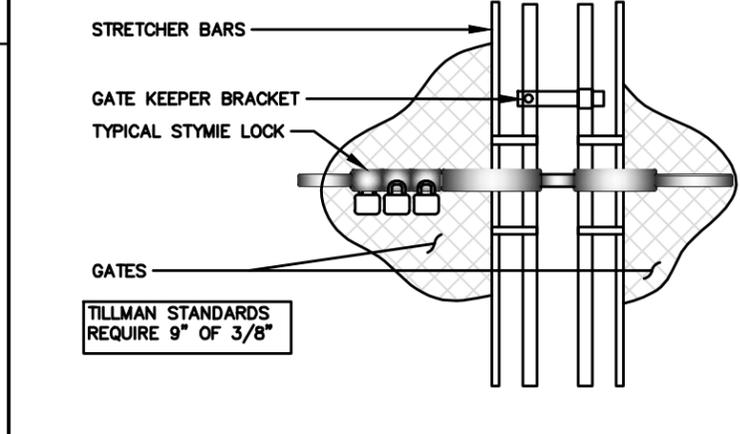
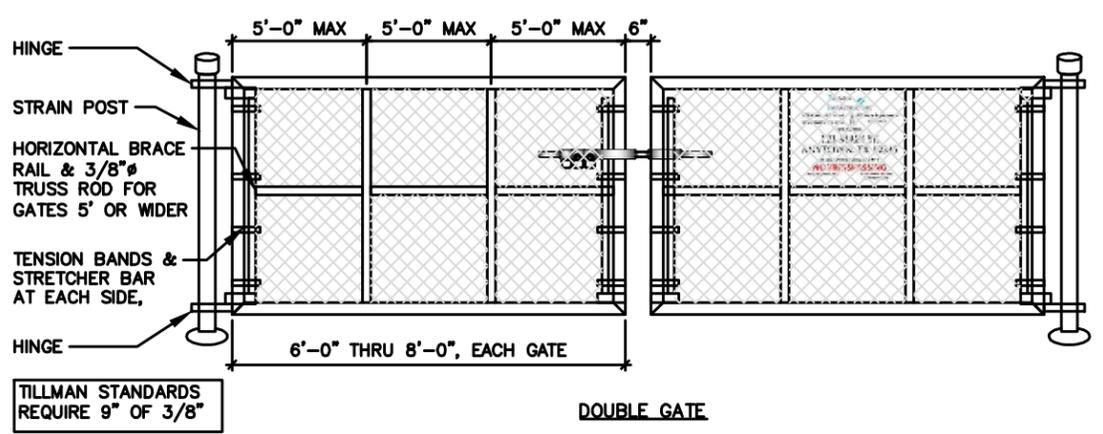
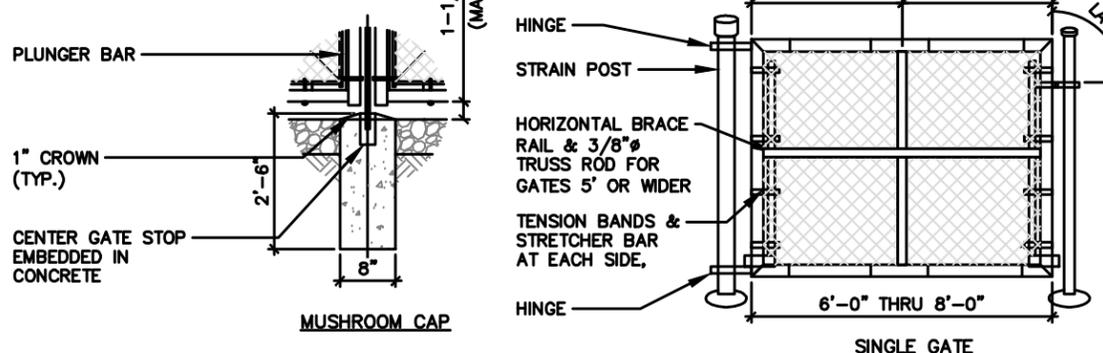
STANDARD COMBINATION LOCK SPEC:
ALL LOCKS SHOULD BE MARINE GRADE BRASS LOCK WITH STAINLESS STEEL SHACKLE, SOLID BRASS BODY PROVIDES STRENGTH AND COOROSION RESISTNACE. STAINLESS STEEL SHACKLES:
RESIST HACKSAWS, BOLT CUTTERS, AND CORROSIVE WEATHER CONDITIONS.

ALL LOCKS:
SHOULD BE A PROGRAMMABLE COMBINATION LOCK THAT IS STRONG, DURABLE, AND HIGHLY WEATHER RESISTANT

THE FOLLOW LOCKS ARE APPROVED TO BE USED ON SITES OR APPROVED EQUAL

PART NUMBERS:
ABUS 180/HB 50-63 WITH 2-1/4" MARINE GRADE WITH 4 DIALS
ABUS 180 COMBINATION 1" MARINE GRADE WITH 4 DIALS.

ALL STOPS AND DOUBLE GATES SHALL HAVE A FULL HEIGHT PLUNGE BAR WITH METAL DOME CAP. INCLUDE MUSHROOM STOP.

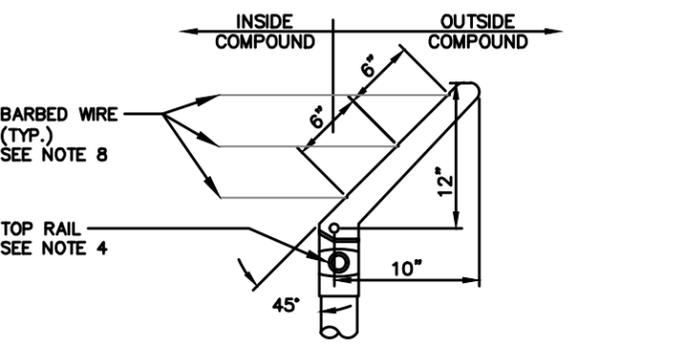


STYMIIE LOCK DETAIL

SCALE: 2
N.T.S.

POST FOOTING DETAIL

SCALE: 1
N.T.S.



BARBED WIRE DETAIL

SCALE: 3
N.T.S.



WESTCHESTER SERVICES LLC
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BARRINGTON, IL 60010
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04994
IOWA
EXP. DATE: 08/30/2028

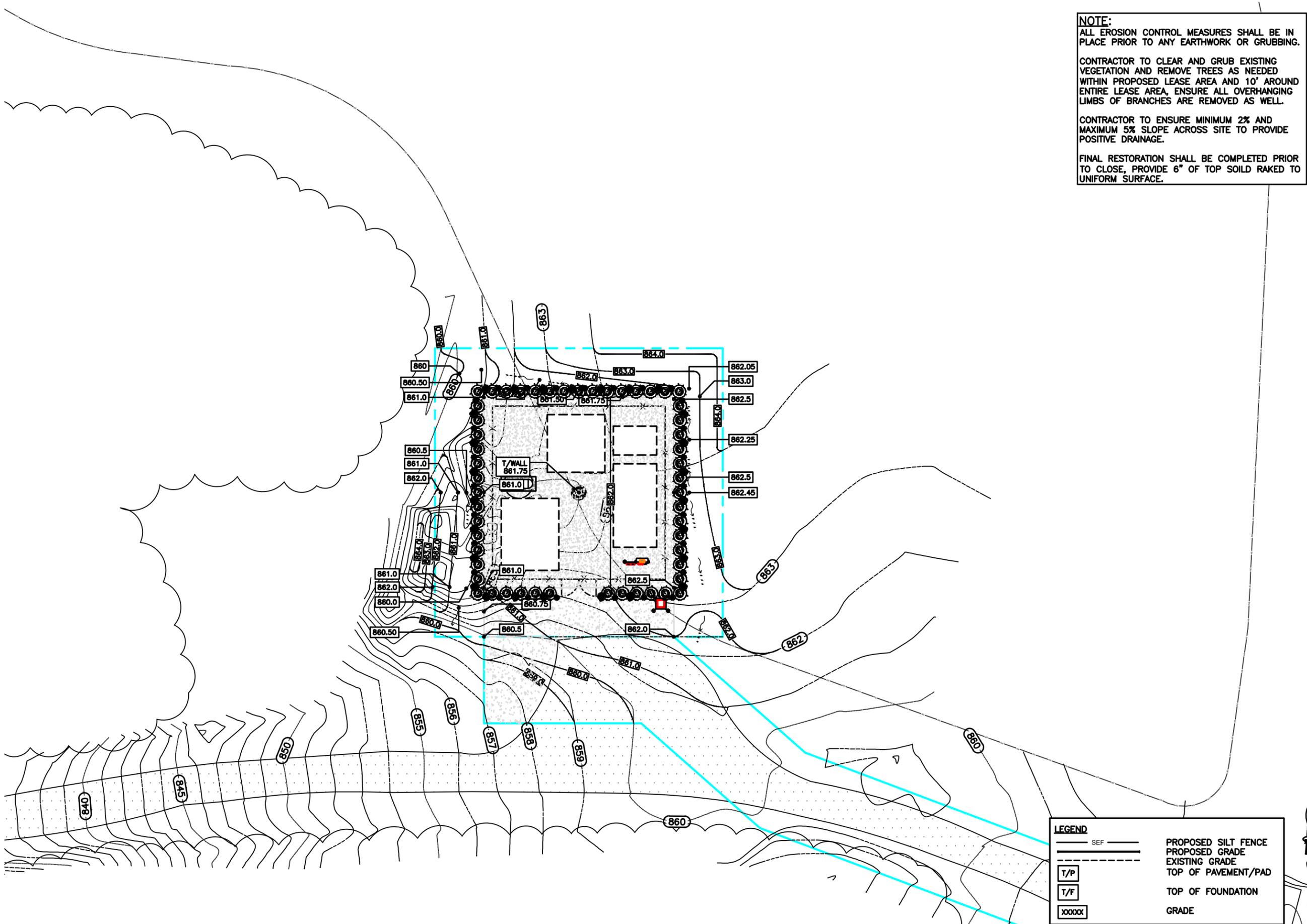
TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
Novak SOLON IA TI-05714
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
FENCE DETAILS

SHEET NUMBER
C-5

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NOTE:
 ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTHWORK OR GRUBBING.
 CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION AND REMOVE TREES AS NEEDED WITHIN PROPOSED LEASE AREA AND 10' AROUND ENTIRE LEASE AREA, ENSURE ALL OVERHANGING LIMBS OF BRANCHES ARE REMOVED AS WELL.
 CONTRACTOR TO ENSURE MINIMUM 2% AND MAXIMUM 5% SLOPE ACROSS SITE TO PROVIDE POSITIVE DRAINAGE.
 FINAL RESTORATION SHALL BE COMPLETED PRIOR TO CLOSE, PROVIDE 6" OF TOP SOILD RAKED TO UNIFORM SURFACE.



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY: DS
CHECKED BY: MC

REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA"
 DATE 03/13/26

 EXP. DATE: 08/30/2028

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 Novak SOLON IA TI-05714
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 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
 GRADING PLAN

SHEET NUMBER
 C-6

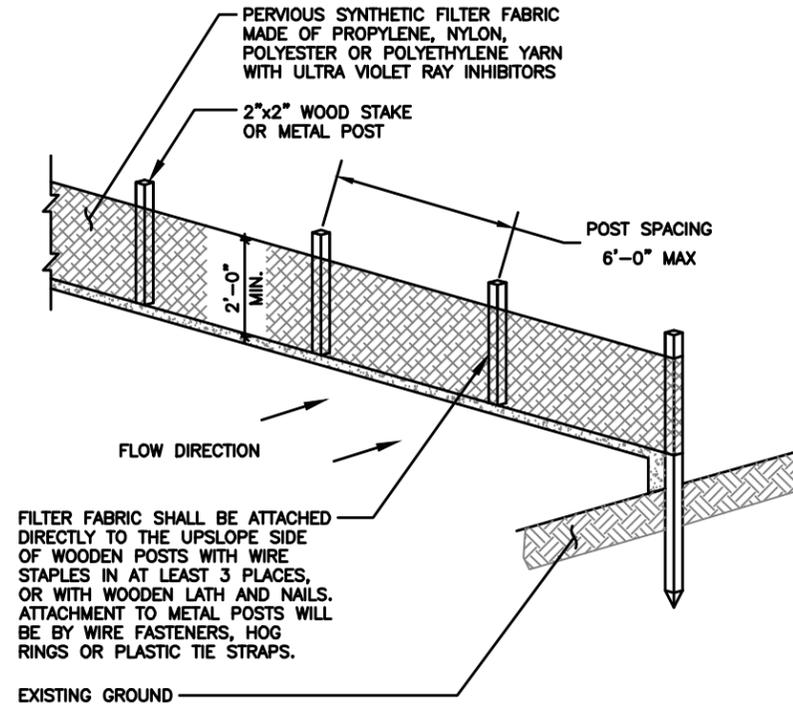
LEGEND

	PROPOSED SILT FENCE
	PROPOSED GRADE
	EXISTING GRADE
	TOP OF PAVEMENT/PAD
	TOP OF FOUNDATION
	GRADE

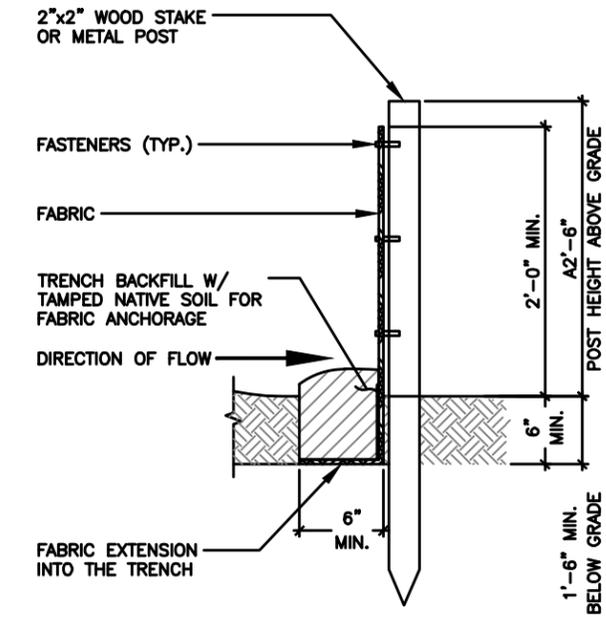
SCALE: 1/16" = 1'-0" (24x36)
 (OR) 1/32" = 1'-0" (11x17)

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- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE STATE ADOPTED "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE STATE ENVIRONMENTAL PROTECTION AGENCY.
- A SOIL EROSION CONTROL FENCE SHALL BE INSTALLED BEFORE DISTURBING THE GROUND AND SHALL BE PROVIDED AS SHOWN ON THE PLAN. THE CONDITION OF THE FENCE SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION
- SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND PRICING
- THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
- ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
- MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS PROJECT
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
- ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
- ANY EXCESS TOPSOIL THAT IS TO BE STOCKPILED FOR A PERIOD LONGER THAN 2 WEEKS SHALL BE PROTECTED BY EXCAVATING A TRENCH COMPLETELY AROUND THE STOCKPILE TO PREVENT THE ESCAPE OF SOIL MATERIAL THROUGH STORM WATER RUNOFF. STOCKPILES THAT ARE TO REMAIN LONGER THAN 14 DAYS SHALL BE SEEDED WITH AN APPROPRIATE GROUND COVER
- TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, TEMPORARY GRAVEL ROADS AT WORK ENTRANCES SHALL BE CONSTRUCTED AND SHALL EXTEND INTO JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY
- FINAL RESTORATION SHALL BE COMPLETED PRIOR TO CLOSEOUT, PROVIDING 6" OF TOPSOIL RAKED TO A UNIFORM SURFACE.
- SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED



ISOMETRIC VIEW



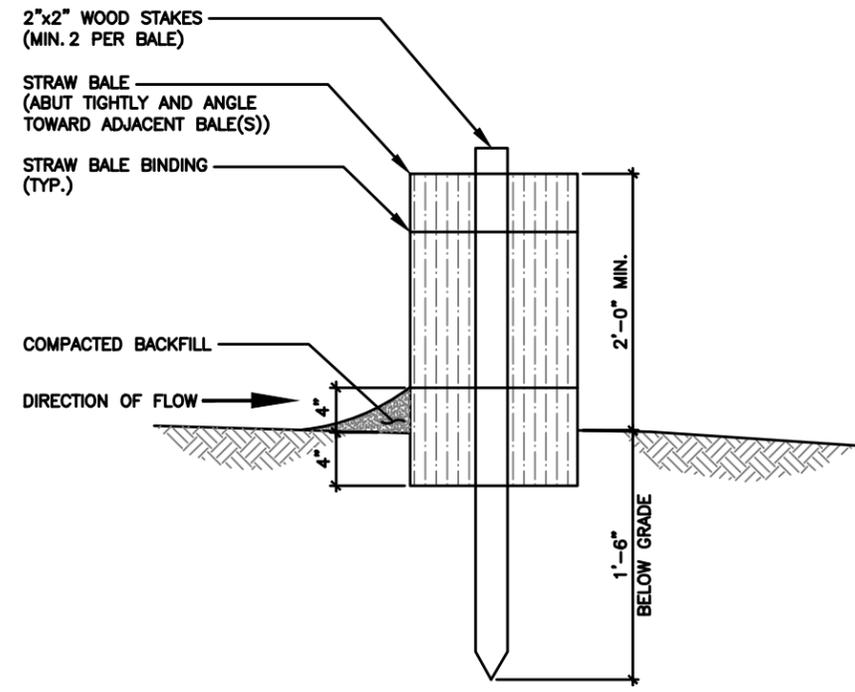
SECTION VIEW

SOIL EROSION & SEDIMENT CONTROL NOTES

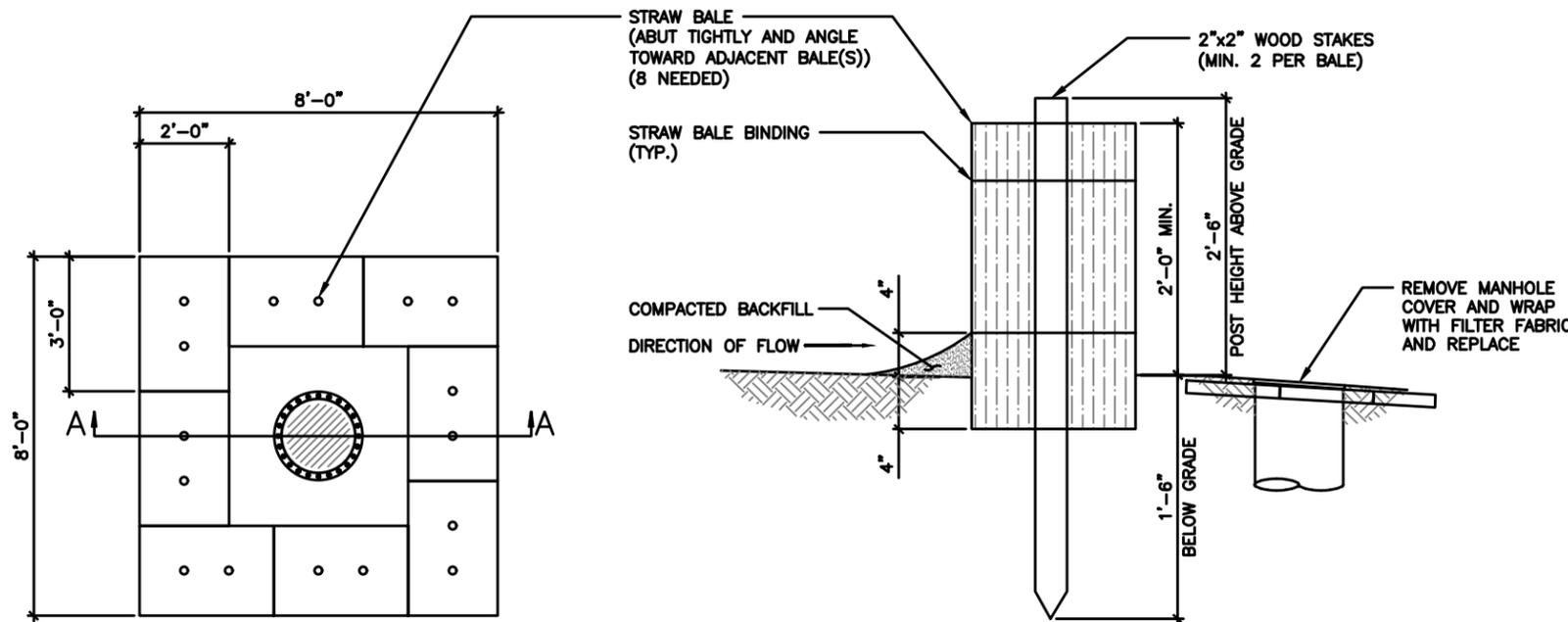
SCALE N.T.S. **4**

EROSION CONTROL - SILT FENCE

SCALE N.T.S. **2**



SECTION VIEW



SECTION VIEW A-A

EROSION CONTROL - STRAW BALE (OPTIONAL)

SCALE N.T.S. **3**

EROSION CONTROL - STRAW BALE AT STORM INLET MANHOLE (IF NEEDED SEE PLANS)

SCALE N.T.S. **1**



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 DATE: 03/13/26

TILLMAN OPP# TI-OPP-28430
 TILLMAN SITE NAME:
 Novak SOLON IA TI-05714
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
EROSION CONTROL DETAILS

SHEET NUMBER
C-7

TOTAL PARCEL LEGAL DESCRIPTION

ALL THAT PART OF THE WEST 30 ACRES OF THE SW 1/4 OF THE NE 1/4 OF SECTION 14, TOWNSHIP 81 NORTH, RANGE 7 WEST OF THE 5TH P.M., JOHNSON COUNTY, IOWA, LYING SOUTH OF THE CENTER LINE OF THE PUBLIC ROAD.

EXCEPTING THEREFROM BEGINNING AT THE NORTHWEST CORNER OF SAID SW 1/4 NE 1/4, SECTION 14; THENCE EAST ALONG THE NORTH LINE OF SAID SW 1/4 NE 1/4, SECTION 14, A DISTANCE OF 79.00 FEET TO THE CENTER LINE OF THE PUBLIC ROAD; THENCE SOUTHEASTERLY ALONG THE CENTER LINE OF SAID ROAD A DISTANCE OF 245.6 FEET; THENCE SOUTHWESTERLY A DISTANCE OF 116.5 FEET; THENCE NORTHWESTERLY A DISTANCE OF 213.0 FEET TO A POINT ON THE WEST LINE OF THE SW 1/4 NE 1/4, SAID SECTION 14, WHICH POINT IS 296.0 FEET SOUTH OF THE NORTHWEST CORNER OF SAID SW 1/4 NE 1/4, SECTION 14; THENCE NORTH ALONG SAID WEST LINE A DISTANCE OF 296.0 FEET TO THE POINT OF BEGINNING.

FURTHER EXCEPTING LOT 1, SIMS FIRST ADDITION TO JOHNSON COUNTY, IOWA, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 21, PAGE

24, PLAT RECORDS OF JOHNSON COUNTY, IOWA.

PARCEL ID: 0314153002

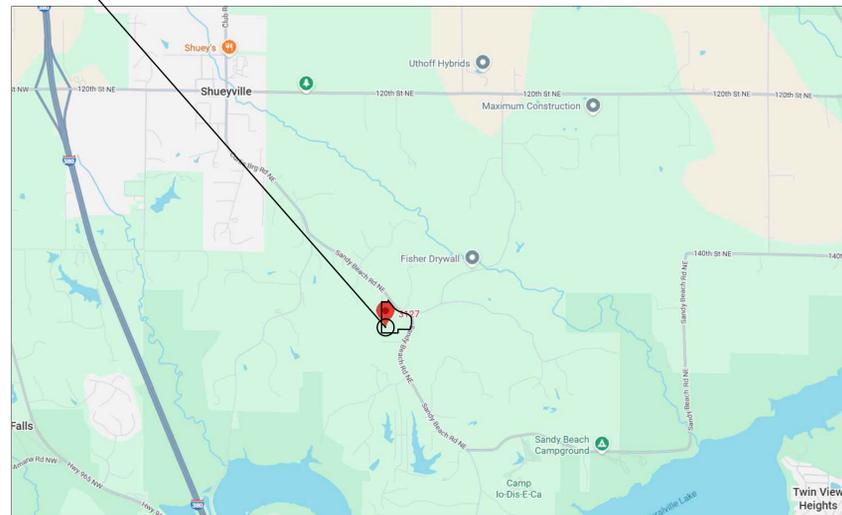
THIS BEING A PORTION OF THE SAME PROPERTY CONVEYED TO BRENT E. NOVAK, IN A DEED FROM NICHOLAS M. PUGH AND DANNISHA A. PUGH, HUSBAND AND WIFE, DATED 5/1/2019 AND RECORDED 5/2/2019, IN BOOK 5898 PAGE 389.

LEASED AREA LEGAL DESCRIPTION

A PART OF THE WEST 30 ACRES OF THE SW 1/4 OF THE NE 1/4 OF SECTION 14, TOWNSHIP 81 NORTH, RANGE 7 WEST OF THE 5TH P.M., JOHNSON COUNTY, IOWA, MORE PARTICULARLY DESCRIBED AS, COMMENCING AT THE NE CORNER OF LOT 1 OF SIMS 1ST ADDITION; THENCE N89°25'28"W, ALONG THE NORTH LINE OF SAID LOT 1 OF SIMS 1ST ADDITION, 293.63 FEET; THENCE N00°00'00"E, 143.13 FEET TO THE POINT OF BEGINNING OF THE LEASE AREA HEREIN INTENDED TO BE DESCRIBED; THENCE N90°00'00"E, 100.00 FEET; THENCE N00°00'00"E, 100.00 FEET; THENCE S90°00'00"W, 100.00 FEET; THENCE S00°00'00"W, 100.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,000 SQUARE FEET.

LOCATION MAP

NOT TO SCALE



TILLMAN INFRASTRUCTURE PROPOSED UNMANNED TELECOMMUNICATIONS FACILITY 3127 SANDY BEACH RD. NE, SOLON, IA. 52333

AERIAL MAP

NOT TO SCALE



DRAWINGS LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING ELEVATION
	PROPOSED ELEVATION
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATERMAIN
	EXISTING TREE
	REMOVE TREE
	TEMPORARY TREE FENCE
	TEMPORARY SILT FENCE
	FLOW ARROW
	STORM STRUCTURE
	SANITARY STRUCTURE
	CLEANOUT
	B BOX
	WOOD UTILITY POLE
	LIGHT POLE
	FLARED END SECTION (F.E.S.)
	WATER VALVE VAULT / WATER METER
	SIGN
	FIRE HYDRANT
	INLET FILTER BASKET

NOTES:

LOCATION OF UTILITIES SHOWN HEREON IS CERTIFIED AT SURFACE STRUCTURES ONLY. UNDERGROUND LINES AS SHOWN ARE ESTIMATED LOCATIONS BASED ON AVAILABLE VISIBLE EVIDENCE, ENGINEERING PLANS AND OUR BEST JUDGMENT. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES IN THE VICINITY OF ANY PROPOSED CONSTRUCTION SHALL BE VERIFIED BY EXCAVATION.

THE SOURCE OF BEARINGS WERE DETERMINED BY GPS OBSERVATIONS COMPLETED ON APRIL 9, 2024. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY AND FOUND BOUNDARY MONUMENTS WERE ALSO LOCATED USING GPS METHODS. THE TYPE OF GPS UTILIZES AS NETWORK ADJUSTED REAL TIME KINEMATIC (TOPCON VRS NETWORK), NAD 83 IOWA STATE PLANE (IOWA RCS ZONE 10 (CEDAR RAPIDS)). TOPCON HIPER SR RECEIVERS WERE USED TO PERFORM THE SURVEY.

A IOWA ONE CALL LOCATE FOR THE UNDERGROUND UTILITIES WAS NOT PROVIDED AT THE TIME OF THE SURVEY. UNDERGROUND UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE IN THE FIELD AND OUR BEST JUDGMENT. LACKING EXCAVATION, THE TYPE AND LOCATION OF SAID UTILITIES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED.

FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR DEED, TITLE POLICY, ZONING ORDINANCE, ETC

PROJECT NARRATIVE

GENERAL:
CONSTRUCT TELECOM TOWER & COMMUNICATION PAD.

AREA SUMMARY:
TOTAL PROPERTY AREA = 16.66 ACRES
TOTAL LEASED SITE AREA = 10,000 SQUARE FEET

SPECIAL PROTECTION AREAS:
COUNTY GIS SHOWS NO HISTORIC FLOOD ZONE
NO WETLANDS LOCATED ONSITE.

UPSTREAM TRIBUTARY:
THERE IS NO UPSTREAM TRIBUTARY AREA OF/FOR THE SITE.

GROUNDWATER ELEVATION:
N/A

SITE BENCHMARK:
UNKNOWN

Note: The exact location of all utilities shall be verified by the contractor prior to construction activities. For utility locations call: IOWA ONE CALL (800) 292-8989



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

ROBERT G. WALKER
SIGNATURE

01-16-2026
DATE

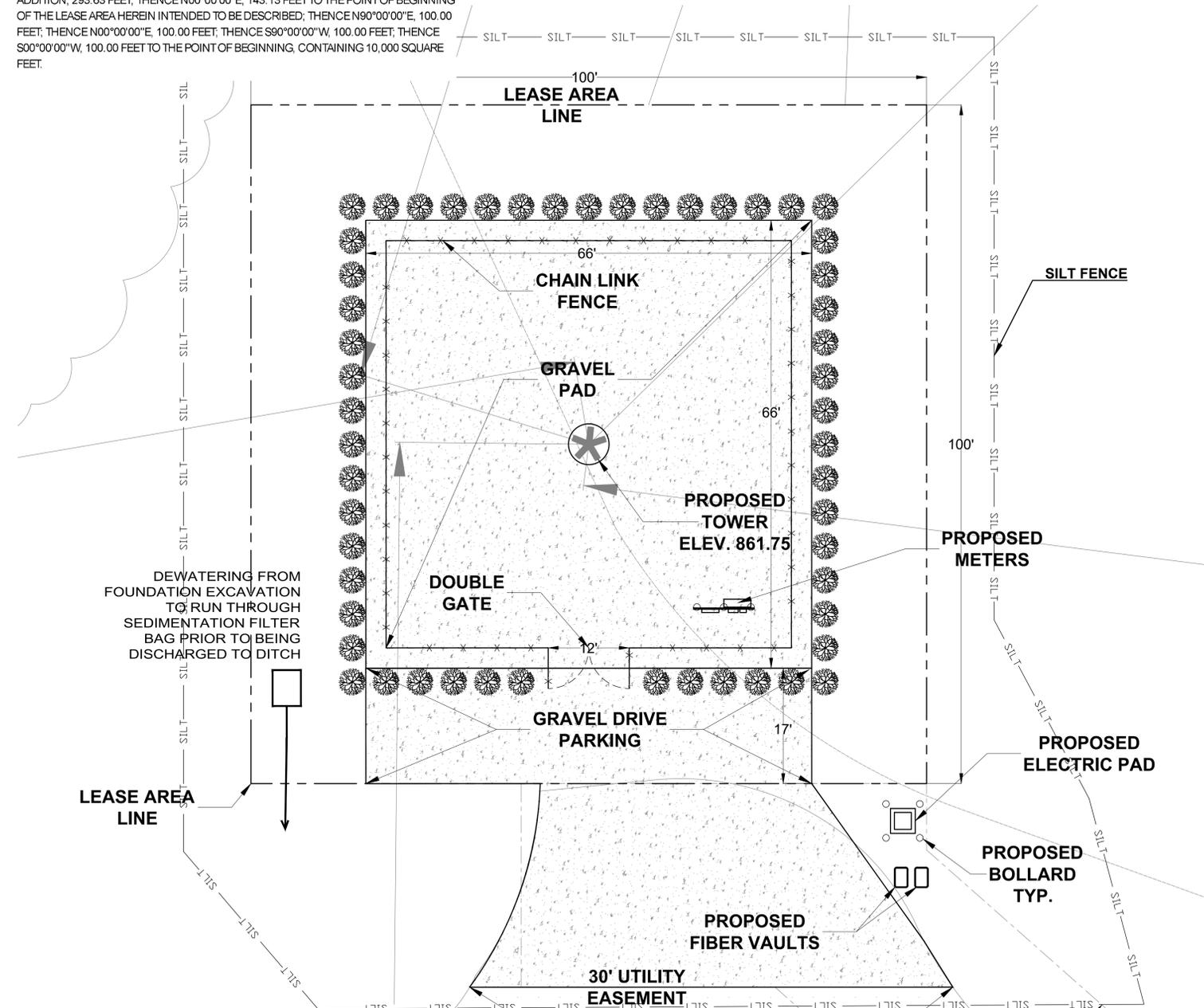
EXP. 11-30-27 MY LICENSE EXPIRES ON NOVEMBER 30, 2027

INDEX TO SHEETS

NO.	DESCRIPTION
C-0.0	COVER SHEET
C-1.0	SITE PLAN
C-2.0	GRADING PLAN
C-3.0	SITE DETAILS

PROJECT NOTES:

- EXCESS EXCAVATED MATERIALS TO BE HAULED OFF TO SUITABLE SITE.
- MATERIALS EXCAVATED FOR TOWER FOUNDATION CAN BE REUSED IF THEY MEET REQUIREMENTS OF STRUCTURAL FILL.
- UNSUITABLE MATERIALS WILL BE HAULED TO SUITABLE SITE.
- DEWATERING FOR FOUNDATION EXCAVATIONS WILL NEED TO PASS THROUGH SEDIMENTATION CONTROLS.
- EROSION CONTROL MEASURES TO REMAIN IN PLACE FOR DURATION OF CONSTRUCTION.



DATE	REVISIONS
01-16-2026	

PROJECT STAFF	ISSUE
PROJECT MANAGER: R. WALKER P.E.	1
ENGINEER: K. MILLER	2
ENGINEER: K. MILLER	3
TECHNICAL:	

SME

 SEVIE & MAHER

 ENGINEERS

 Surveying • Geomatics • Consulting • Civil Engineers

COVER SHEET & EROSION CONTROL PLAN
 PROPOSED CELL TOWER
 3127 SANDY BEACH RD., SOLON, IA. 52333

PROJECT NO.: 251666
 BASE FILE:
 SHEET FILE:
 ISSUE DATE: JAN. 16, 2026
 SCALE: 1" = 10'
 SHEET NUMBER
C-0

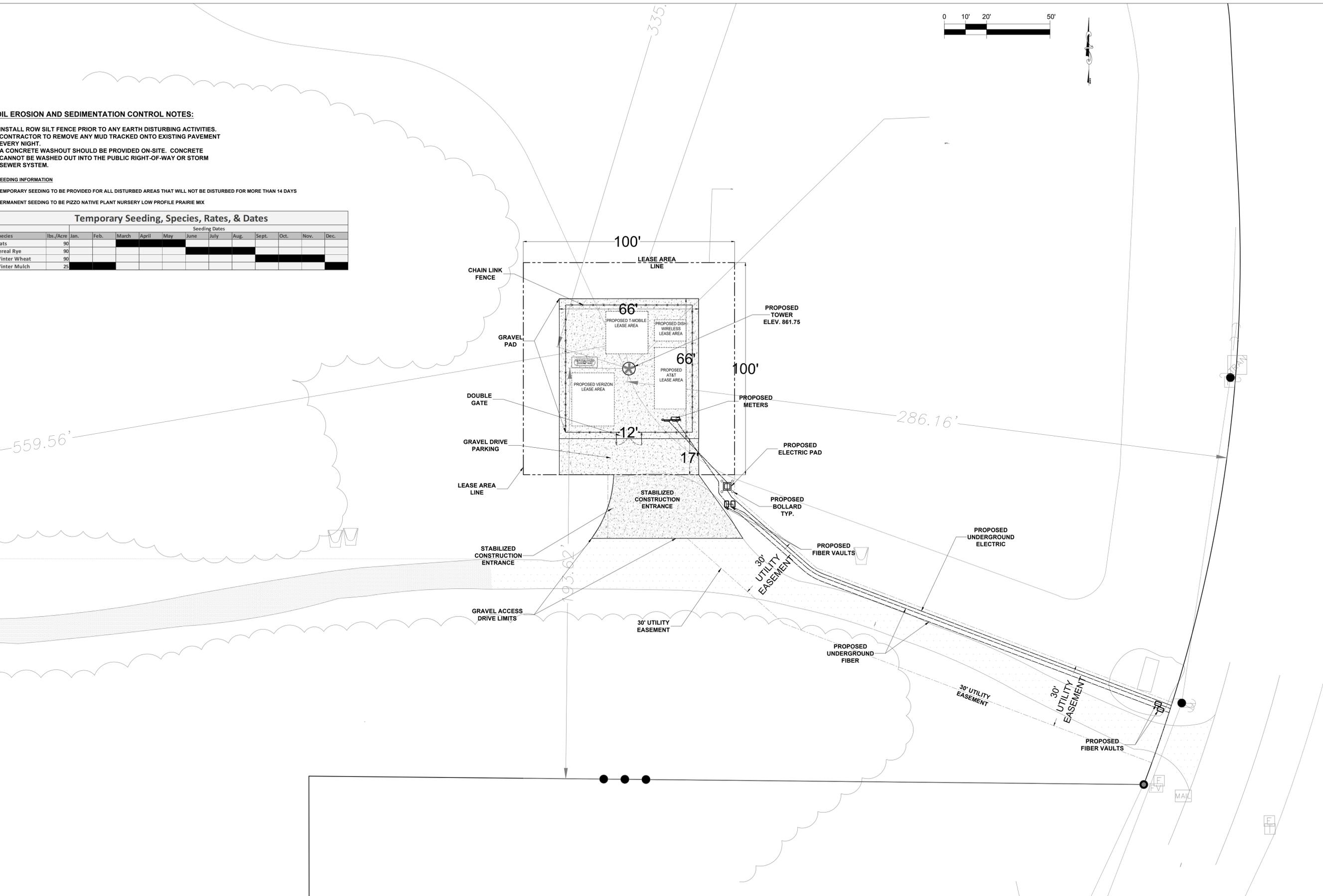
SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. INSTALL ROW SILT FENCE PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
2. CONTRACTOR TO REMOVE ANY MUD TRACKED ONTO EXISTING PAVEMENT EVERY NIGHT.
3. A CONCRETE WASHOUT SHOULD BE PROVIDED ON-SITE. CONCRETE CANNOT BE WASHED OUT INTO THE PUBLIC RIGHT-OF-WAY OR STORM SEWER SYSTEM.

SEEDING INFORMATION

TEMPORARY SEEDING TO BE PROVIDED FOR ALL DISTURBED AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN 14 DAYS
 PERMANENT SEEDING TO BE PIZZO NATIVE PLANT NURSERY LOW PROFILE PRAIRIE MIX

Species	lbs./Acres	Seeding Dates												
		Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Oats	90													
Cereal Rye	90													
Winter Wheat	90													
Winter Mulch	25													



PROJECT STAFF	ISSUE	REVISIONS	DATE
PROJECT MANAGER: R. WALKER P.E.	1	CHECK SET	01/15/2026
ENGINEER: K. MILLER	2		
ENGINEER:	3		
TECHNICAL:			

SME & MAHER ENGINEERS
 A Professional Engineering Firm
 10000 Highway 100, Suite 100
 Solon, IA 52333
 Phone: 563.526.1000
 Fax: 563.526.1001
 Email: info@smeandmaher.com
 Website: www.smeandmaher.com

PROPOSED SITE PLAN

PROPOSED CELL TOWER
 3127 SANDY BEACH RD., SOLON, IA. 52333

PROJECT NO.:	251666
BASE FILE:	
SHEET FILE:	
ISSUE DATE:	JAN. 16, 2026
SCALE:	1" = 20'
SHEET NUMBER	C-1.0

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PLANNING, DEVELOPMENT AND SUSTAINABILITY

JOSH BUSARD
AICP, LEED-AP, CFM
DIRECTOR

NATHAN MUELLER, AICP, CFM
ASSISTANT DIRECTOR

PLANNING DIVISION

WAIVER RESPONSE

Date: January 28, 2026
To: Sevee & Maher Engineers; Attn. Keenan Miller
From: Kasey Hutchinson, Environmental Regulations Coordinator
Re: Waiver Request, PPN 0314153002

Recently, your firm submitted a request to waive the Stormwater Management requirements for a conditionally permitted telecommunications tower, PPN 0314153002. After review, the PDS Administrative Officer has issued the following decision regarding the request:

Request to waive Stormwater Management: **Approved**

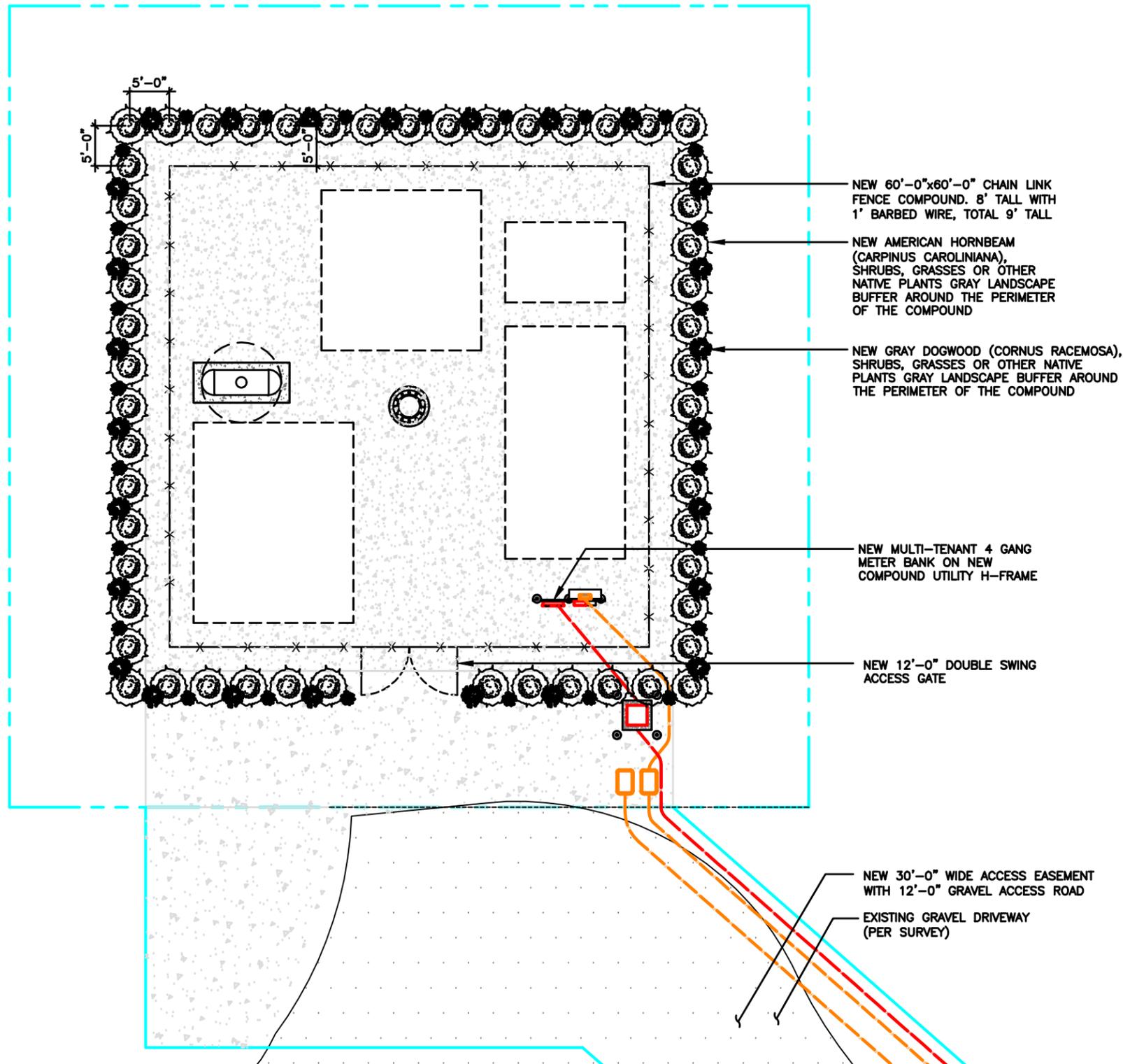
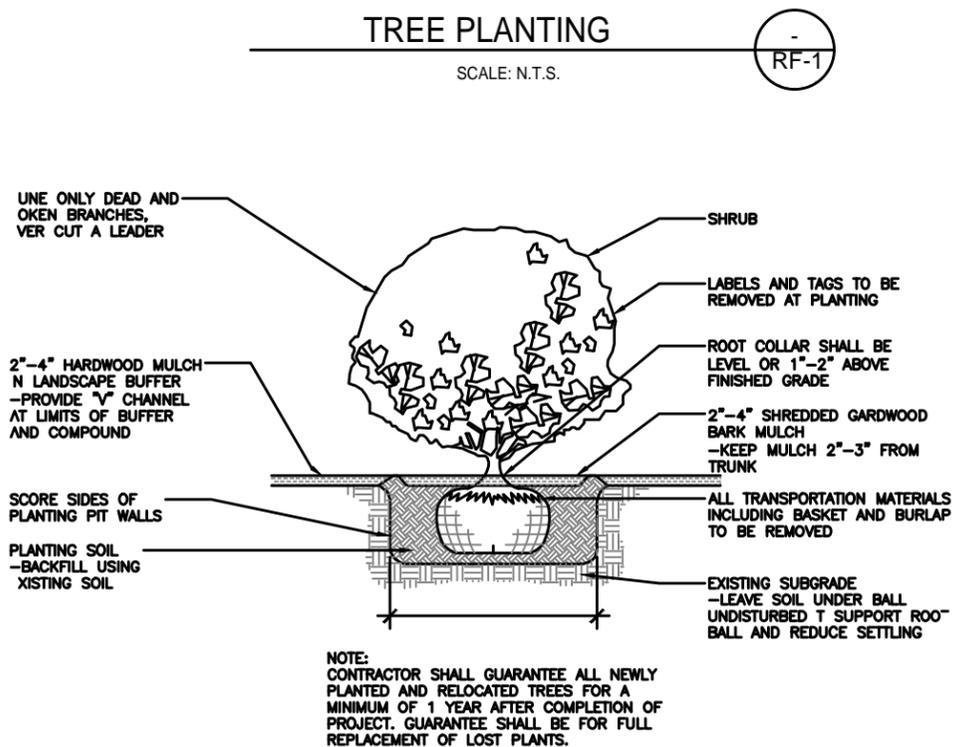
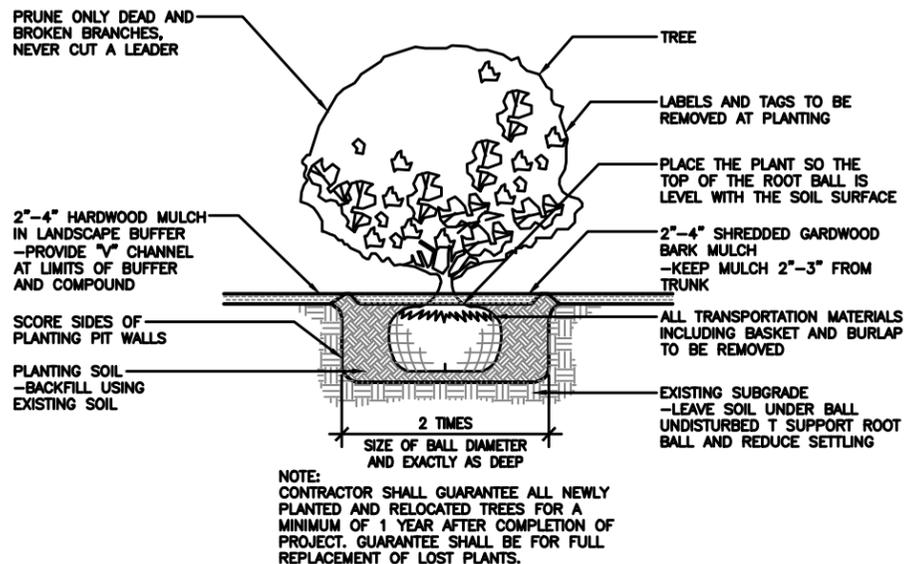
Stormwater management planning has been waived for this project as the newly added impervious area is less than 5000 square feet.

Please contact me at khutchinson@johnsoncountyiowa.gov if you have any questions.

Respectfully,

Kasey Hutchinson
Environmental Regulations Coordinator

COMMON NAME	BOTANICAL NAME	PLANTING SIZE	PLANTING METHOD	PLANTING DEPTH	DESIGN SIZE SPREAD HEIGHT
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	3'-4'	5'-0" O.C.	HOLE IS TWICE AS WIDE A ROOT BALL AND NO DEEPER THAN ROOT BALL ITSELF	20' TO 35'
DOGWOOD, GRAY	CORNUS RACEMOSA	4'	5'-0" O.C.	TOP OF ROOT BALL TO BE LEVEL WITH FINISH GRADE	10' MIN.



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DATE: 03/13/26

PROFESSIONAL ARCHITECT
JOHN M. BANKS
04994
IOWA
EXP. DATE: 08/30/2028

TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
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SITE ADDRESS:
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SHEET TITLE
LANDSCAPE PLAN

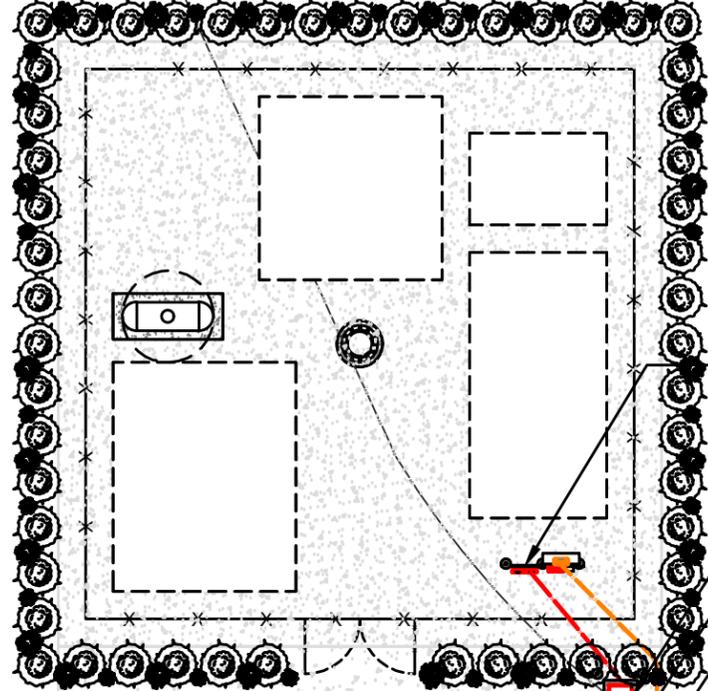
SHEET NUMBER
C-8

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HANDHOLES SHALL BE:
 24x36x24" POLYMER CONCRETE WITH TIER 15/22 RATED LIDS LABELED AS "TELECOMMUNICATIONS".
 BOTTOM OF HANDHOLE SHALL BE LINED WITH 2" OF CLEAN #57 GRAVEL.
 CONDUIT SHALL ENTER AT A 45° ANGLE AND BE 3" FROM THE TOP OF GRAVEL. (PROVIDE AT LEAST 18" CLEARANCE TO BOTTOM OF LID)
 (1) HANDHOLE SHALL BE STENCILED "TILLMAN" WITH 3" LETTERS
 (1) HANDHOLE SHALL BE STENCILED "FUTURE" WITH 3" LETTERS

NOTE:
 FIBER HANDHOLE REQUIRED EVERY 500' MAXIMUM.
 POWER HANDHOLE REQUIRED EVERY 300' MAXIMUM.
 GENERAL CONTRACTOR SHALL VERIFY AND CONFIRM ADDITIONAL REQUIREMENTS WITH LOCAL JURISDICTION PRIOR TO INSTALLATION.

NOTE:
 EXACT SOURCE AND ROUTING OF POWER AND FIBER TO BE DETERMINED UPON COORDINATION WITH POWER AND FIBER COMPANIES. GENERAL CONTRACTOR TO CONFIRM & OBTAIN COPY OF THE UTILITY COORDINATION WITH TILLMAN CONSTRUCTION MANAGER PRIOR TO INSTALLATION



NEW MULTI-TENANT 4 GANG METER BANK ON NEW UTILITY H-FRAME SEE DETAIL #1/E-2

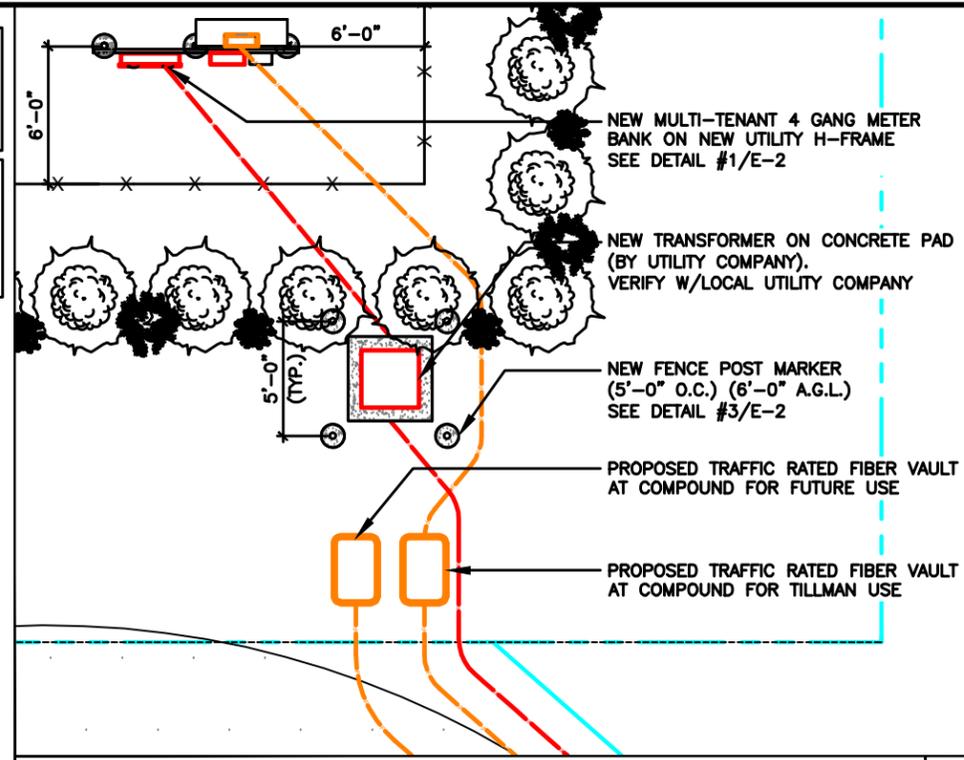
NEW TRANSFORMER ON CONCRETE PAD (BY UTILITY COMPANY). VERIFY W/LOCAL UTILITY COMPANY

PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR FUTURE USE

PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR TILLMAN USE

NEW 30'-0" WIDE ACCESS/ UTILITY/ FIBER EASEMENT

EXISTING GRAVEL DRIVEWAY (PER SURVEY)



ENLARGED VIEW OF H-FRAME

SCALE N.T.S. 2

(1) NEW 4" UNDERGROUND CONDUIT FOR NEW ELECTRICAL SERVICE FROM NEW UTILITY H-FRAME TO ROW, STUB UP AND CAP (BY TILLMAN CONTRACTOR) (APPROX. ±320') SEE DETAIL #2/E-2

(1) NEW 4" UNDERGROUND CONDUITS WITH (2) 1-1/4" INNERDUCT AND MULE TAPE FOR NEW FIBER SERVICE FROM NEW UTILITY H-FRAME TO ROW (BY TILLMAN CONTRACTOR) (APPROX. ±320') SEE DETAIL #2/E-2

(1) NEW 4" UNDERGROUND CONDUITS WITH (2) 1-1/4" INNERDUCT AND MULE TAPE FOR FUTURE FIBER SERVICE TO ROW (BY TILLMAN CONTRACTOR) (APPROX. ±280') SEE DETAIL #2/E-2

NEW 30'-0" WIDE ACCESS/ UTILITY/ FIBER EASEMENT

PROPOSED TRAFFIC RATED FIBER VAULT AT ROW FOR TILLMAN USE

PROPOSED TRAFFIC RATED FIBER VAULT AT ROW FOR FUTURE USE

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TILLMAN OPP# TI-OPP-28430
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 Novak SOLON IA TI-05714
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
 UTILITY PLAN

SHEET NUMBER
 E-1

UTILITY PLAN

SCALE: 1/4" = 1'-0" (24x36)
 (OR) 1/8" = 1'-0" (11x17)

1

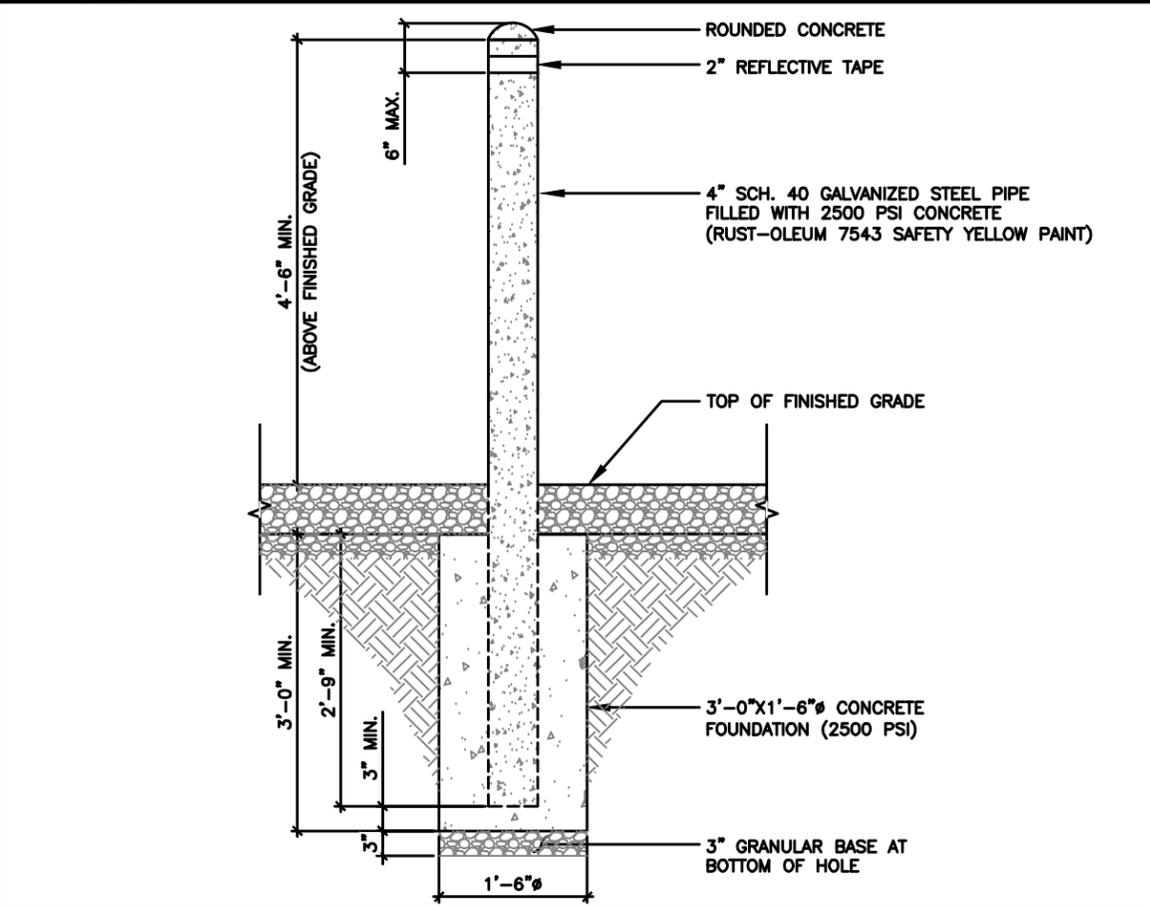


Know what's below.
 Call before you dig.

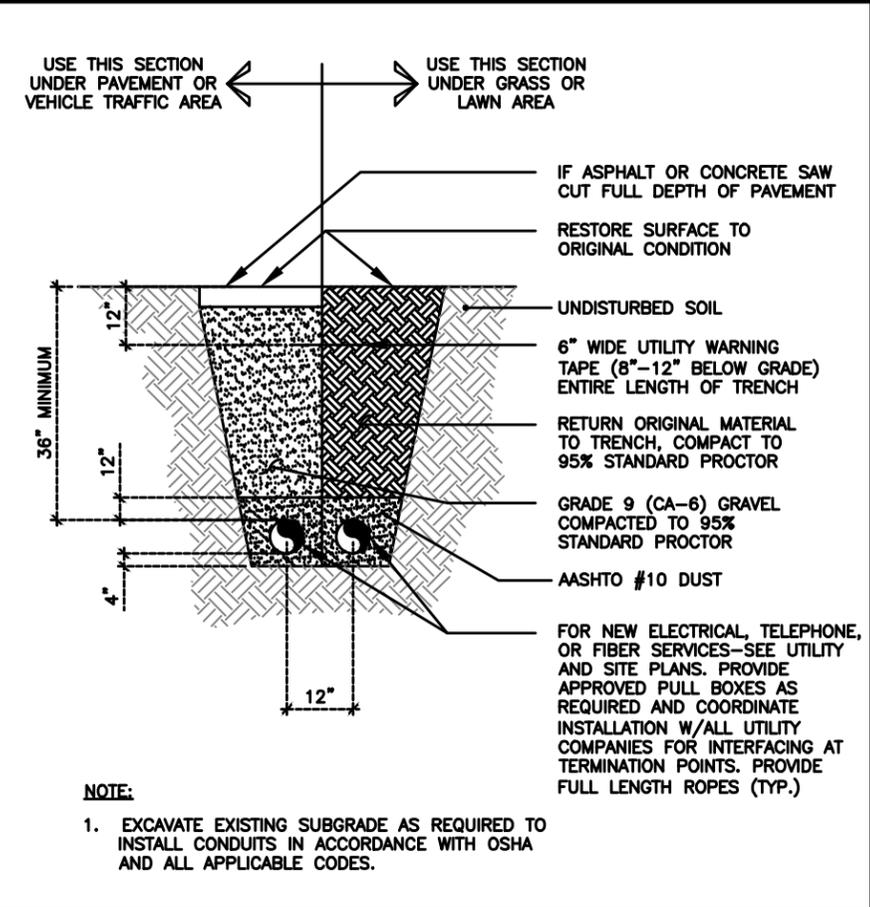


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- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES & OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

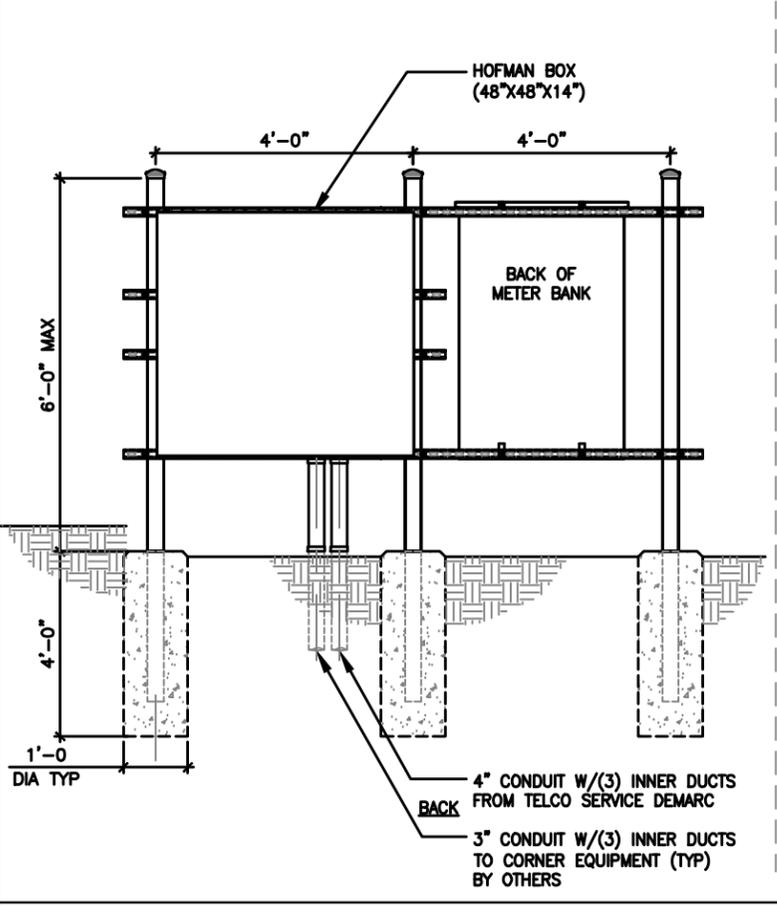


FENCE POST MARKER DETAIL SCALE N.T.S. **3**

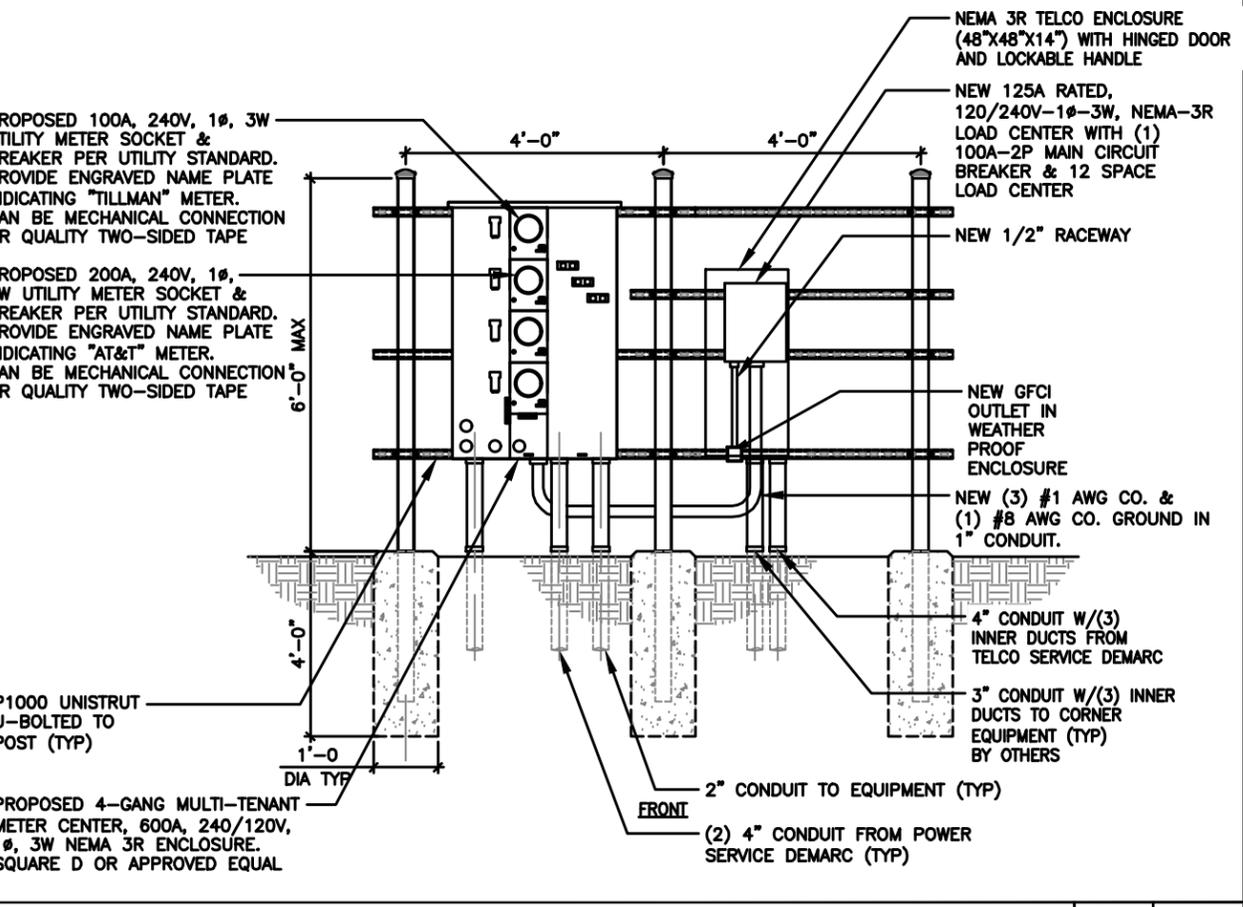


TYPICAL TRENCH DETAIL SCALE N.T.S. **2**

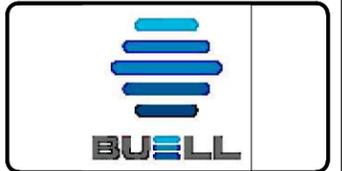
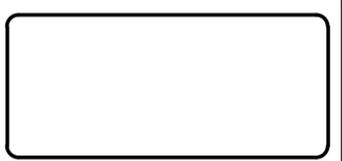
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
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 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.



UTILITY FRAME DETAIL SCALE N.T.S. **4**



ENLARGED UTILITY PLAN SCALE N.T.S. **1**



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY: **DS**
 CHECKED BY: **MC**

REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA



TILLMAN OPP# **TI-OPP-28430**
 TILLMAN SITE NAME:
Novak SOLON IA TI-05714
 SITE ADDRESS:
3127 SANDY BEACH ROAD NE SOLON, IA 52333

SHEET TITLE
ENLARGED UTILITY PLAN

SHEET NUMBER
E-2

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METER POSITION 1 - TILLMAN LOAD CENTER (P-A)																									
LOAD			LOAD PER PHASE (VA)		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA)		LOAD				
DESCRIPTION	QTY.	UNIT V.A.	A	B															A	B	UNIT V.A.	QTY.	DESCRIPTION	UNIT V.A.	QTY.
1	GFCI RECEPTACLES	1	600		BLK		X		10	10	20							BLK			1	SPARE	2		
3	SPARE				RED	X			8	10	20							RED			1	SPARE	4		
5	SPARE				BLK	X			8	10	20							BLK			1	SPARE	6		
7	SPARE	1			RED													RED			1	SPARE	8		
9	SPARE	1			BLK													BLK			1	SPARE	10		
11	SPARE	1			RED													RED			1	SPARE	12		
SUBTOTAL CONTINUOUS																					SUBTOTAL CONTINUOUS	TOTAL AMPS CONTINUOUS x 1.25	4000		
SUBTOTAL NON-CONTINUOUS			600	-																		SUBTOTAL NON-CONTINUOUS	TOTAL AMPS NON-CONTINUOUS	600	
SUBTOTAL SUB-PANEL																						SUBTOTAL SUB-PANEL	TOTAL AMPS SUB-PANEL	4600	
PANEL DESIGNATION: ELECTRICAL PANEL (PA)											BRANCH BREAKER TYPE: SIEMENS - BL											TOTAL KVA		4.60	
MAIN LUGS: N/A			MAIN BREAKER: 100 AMP														TOTAL AMPS		19.16						
VOLTAGE: 120/240			CYCLE: 60			PHASE: 1			WIRES: 3			MAIN COPPER BUS: 100 AMPS			NEUTRAL: 100 AMPS										

CONTRACTOR SHALL LEGIBLY MARK IN THE FIELD THE MAXIMUM AVAILABLE FAULT CURRENT OF EQUIPMENT AND PROVIDE ARC-FLASH HAZARD WARNING LABEL ON ALL ELECTRICAL EQUIPMENT. THE MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

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 DATE: 03/13/26
 JOHN M. BANKS ARCHITECT
 04994
 EXP. DATE: 08/30/2028

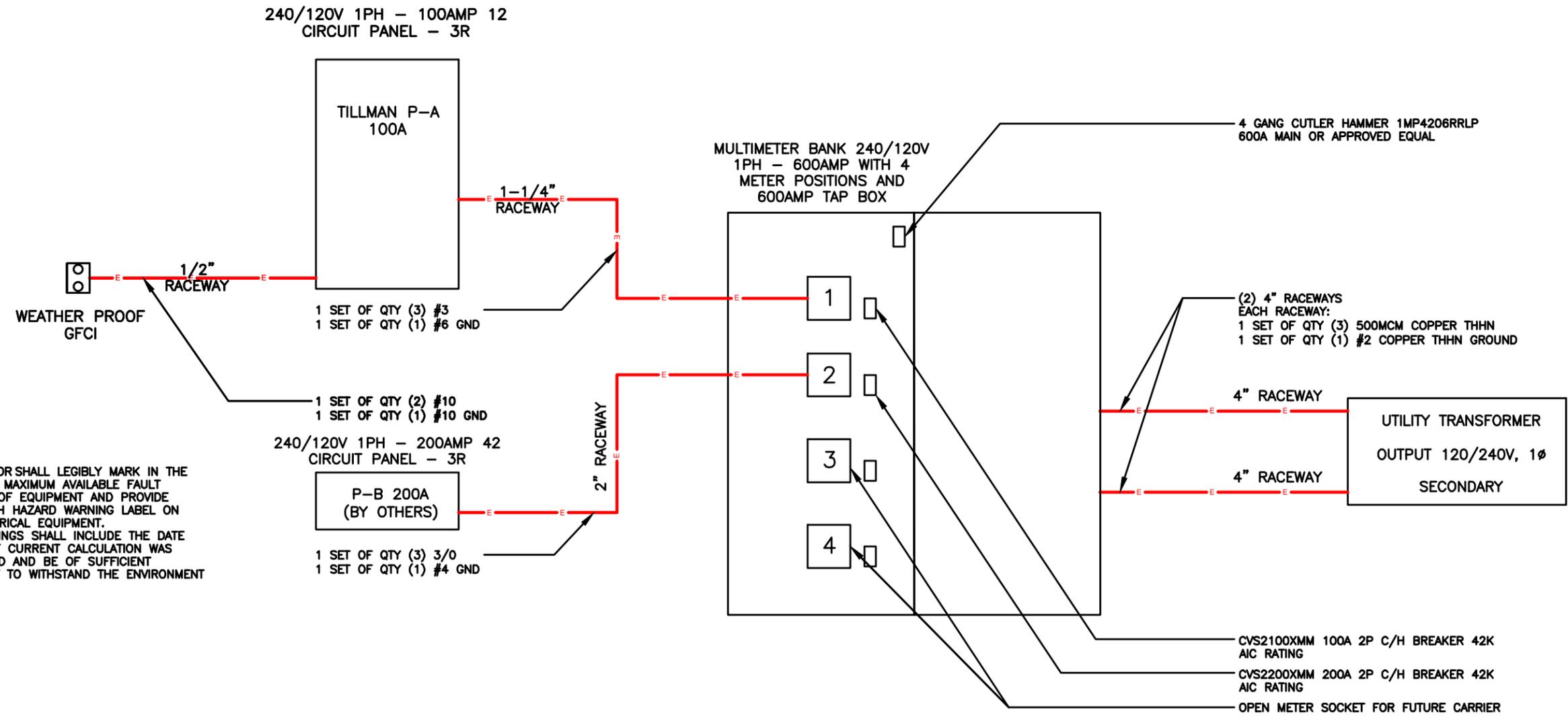
TILLMAN OPP# TI-OPP-28430
 TILLMAN SITE NAME:
 Novak SOLON IA TI-05714
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
ELECTRICAL DIAGRAM

SHEET NUMBER
E-3

TILLMAN P - A PANEL SCHEDULE

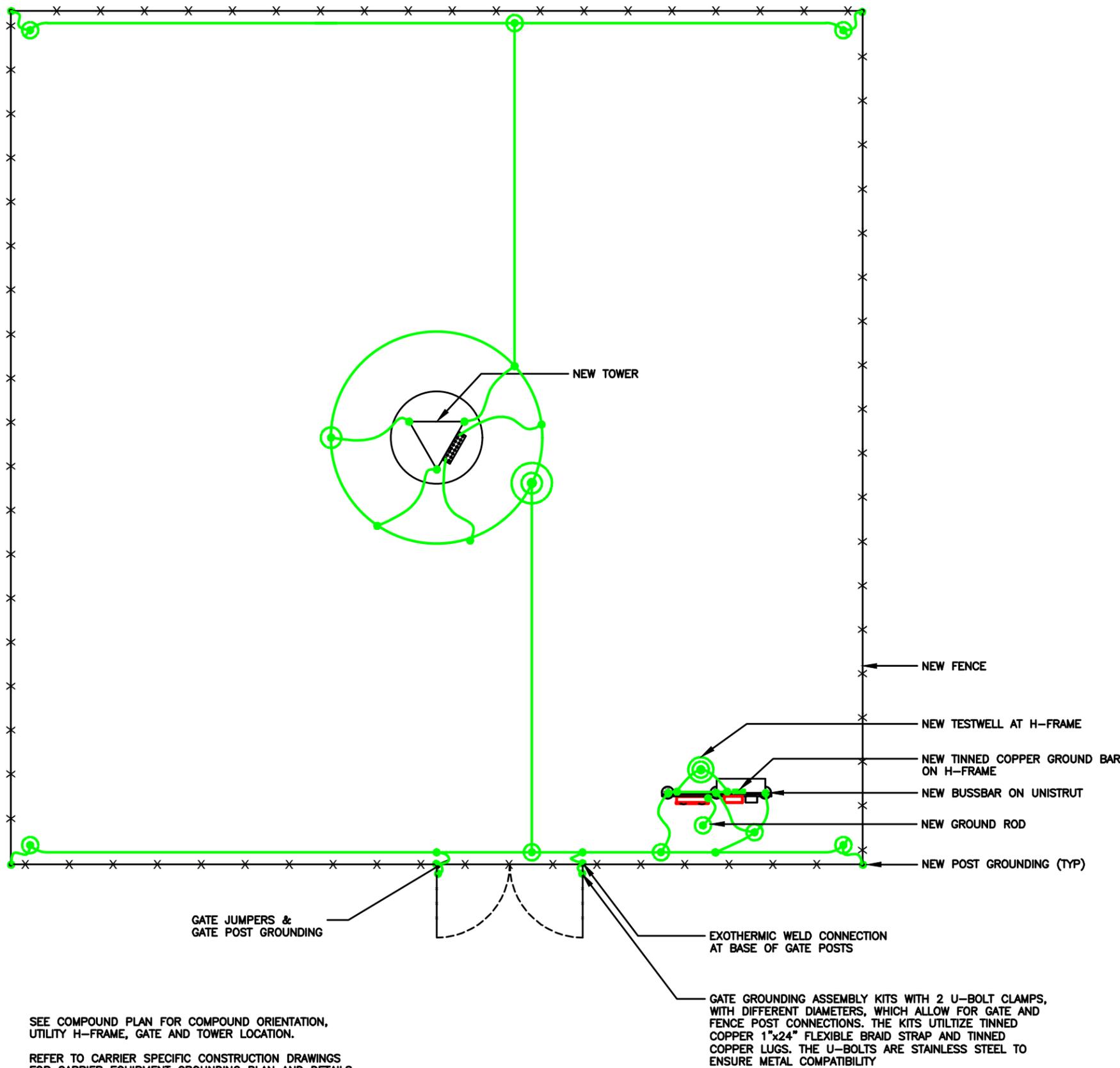
2



ELECTRICAL SINGLE LINE DIAGRAM

1

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SEE COMPOUND PLAN FOR COMPOUND ORIENTATION, UTILITY H-FRAME, GATE AND TOWER LOCATION.
REFER TO CARRIER SPECIFIC CONSTRUCTION DRAWINGS FOR CARRIER EQUIPMENT GROUNDING PLAN AND DETAILS.

GROUNDING LEGEND	
	MECHANICAL CONNECTION
	COMPRESSION FITTING CONNECTION
	EXOTHERMIC WELD CONNECTION
	5/8"x10' COPPER-CLAD STEEL GROUND ROD
	5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
	NEW GROUND WIRING
	EXISTING GROUND WIRING
	TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
CGB	COLLECTOR GROUND BAR
MGB	MAIN GROUND BAR

GENERAL NOTES:

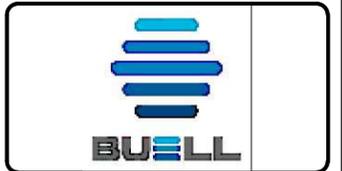
1. ALL GROUND WIRES SHOWN BELOW GRADE SHALL BE #2 SOLID TIN PLATED COPPER UNLESS OTHERWISE IDENTIFIED.
2. ALL EXPOSED GROUND LEADS TO BE IN 1/2" SEAL TIGHT W/ SILICONE.
3. PROVIDE CHEMICAL RODS WHEN DRIVEN ROADS ARE NOT PRACTICAL OR WHERE A STANDARD 5 OHMS RESISTANCE CANNOT BE OBTAINED AT THE SITE. LOCATION SHALL BE DETERMINED BY PROJECT MANAGER.
4. ALL GROUNDING COMPONENTS LOCATIONS AND QUANTITIES ARE TO BE FIELD VERIFIED DURING INSTALLATION.
5. AFTER SITE GROUNDING IS COMPLETED THE GROUNDING INSTALLATION SHALL TEST AT 5 OHMS OR LESS.

ADDITIONAL NOTES:

- OBJECTIVE:**
- RING AROUND TOWER WITH ALL TOWER LEGS GROUNDED, MONOPOLE SHALL HAVE AT LEAST TWO GROUNDS TO EARTH.
 - CONNECTION TO FENCE POSTS AT ALL CORNERS OR CHANGES IN FENCE DIRECTION GREATER THE 45°.
 - CONNECTIONS TO EACH SIDE OF ANY GATE POSTS.
 - CONNECTIONS TO UTILITY H-FRAME.
 - INSTALL ENOUGH GROUND RODS TO ENSURE 5 OHMS OR LESS RESISTANCE.



**Know what's below.
Call before you dig.**



WESTCHESTER SERVICES LLC
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX: 847.277.0080
AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-212-8354

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04994
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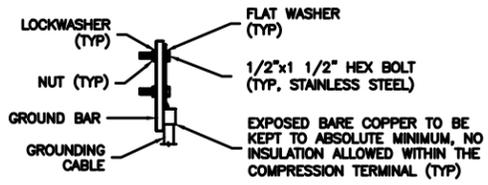
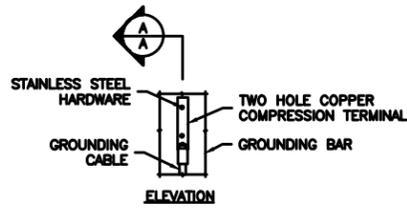
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SHEET TITLE
GROUNDING PLAN

SHEET NUMBER
G-1

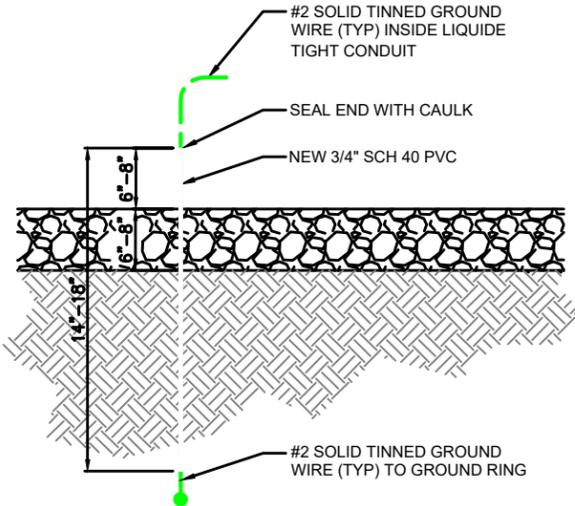
GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10"-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.), PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN LIQUID TIGHT CONDUITS A MINIMUM OF 6"-8" ABOVE AND BELOW GRADE/GRAVEL SURFACE FOR A TOTAL OF 12"-16".
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 8 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.



NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

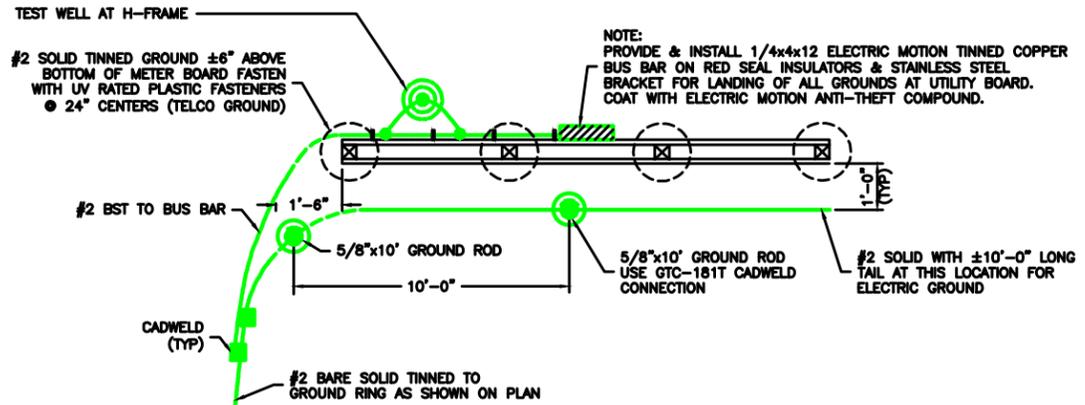
1 TYPICAL GROUND BAR CONNECTION DETAIL
G-1 SCALE: N.T.S.



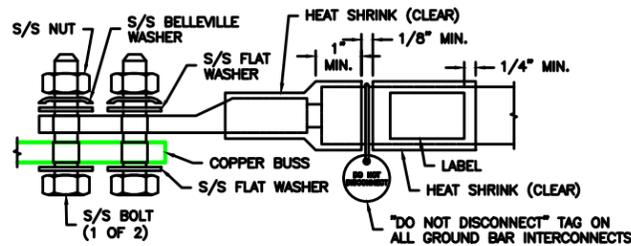
3 GROUNDING DETAIL
G-1 SCALE: N.T.S.



6 CADWELD GROUNDING CONNECTION DETAILS
G-1 SCALE: N.T.S.

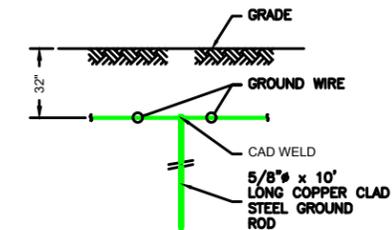


2 METER BOARD UTILITY GROUNDING DETAIL
G-1 SCALE: N.T.S.

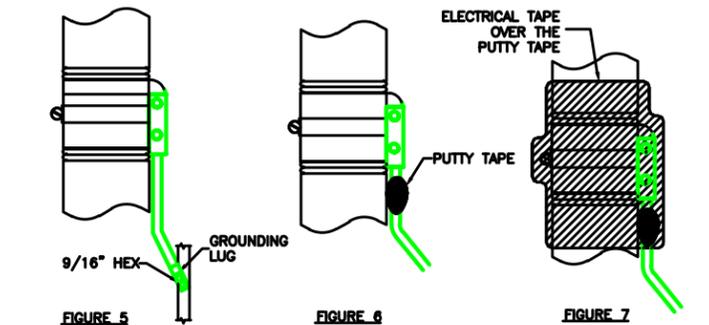
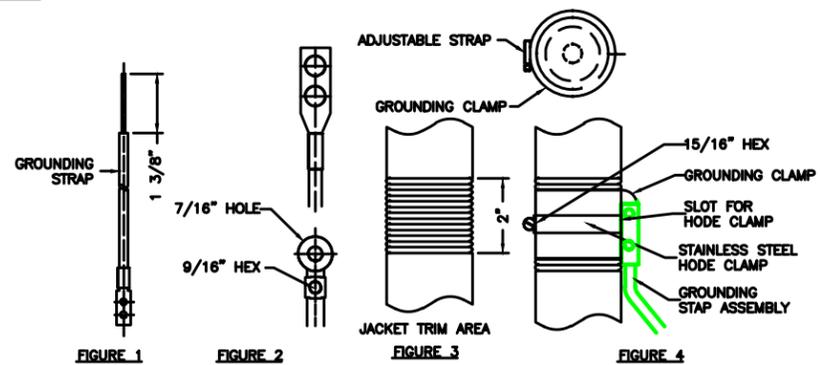


NOTES:
1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
3. COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

4 GENERAL LUG DETAIL
G-1 SCALE: N.T.S.



5 GROUNDING ROD DETAIL
G-1 SCALE: N.T.S.



7 GROUNDING STRAP WEATHERPROOFING DETAIL
G-1 SCALE: N.T.S.

REV	DATE	DESCRIPTION
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1	03/13/26	PERMIT/CONSTRUCTION

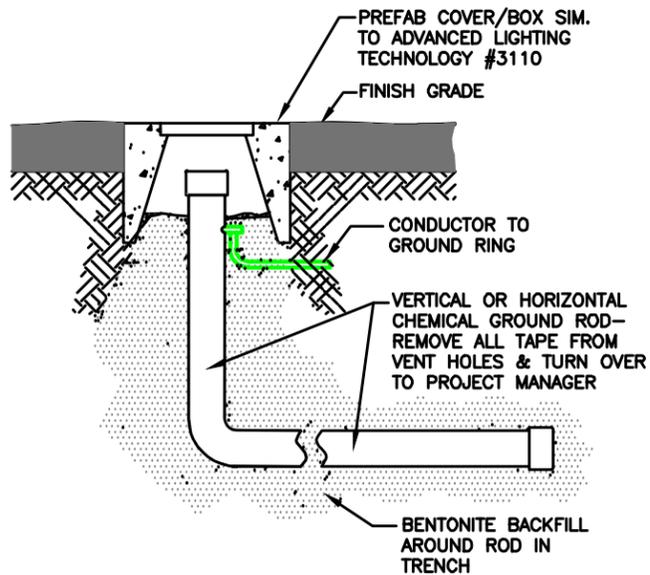
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DATE 03/13/26
PROFESSIONAL ARCHITECT
JOHN M. BANKS
04994
IOWA
EXP. DATE: 08/30/2028

TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
Novak SOLON IA TI-05714
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

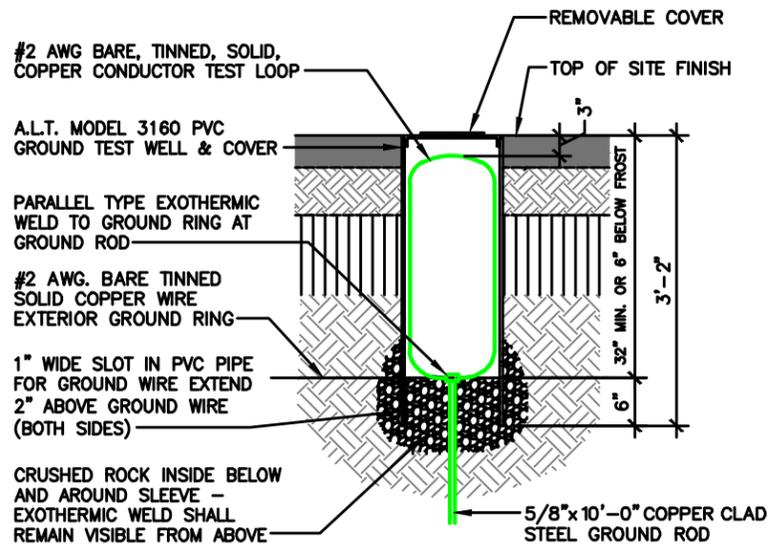
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2

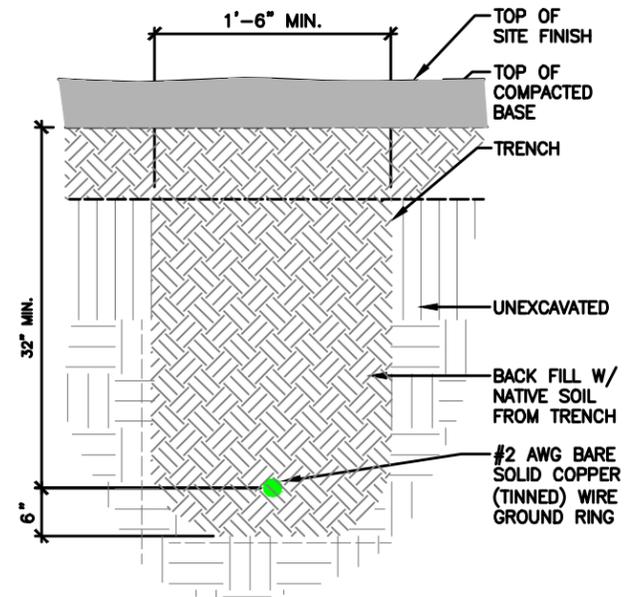
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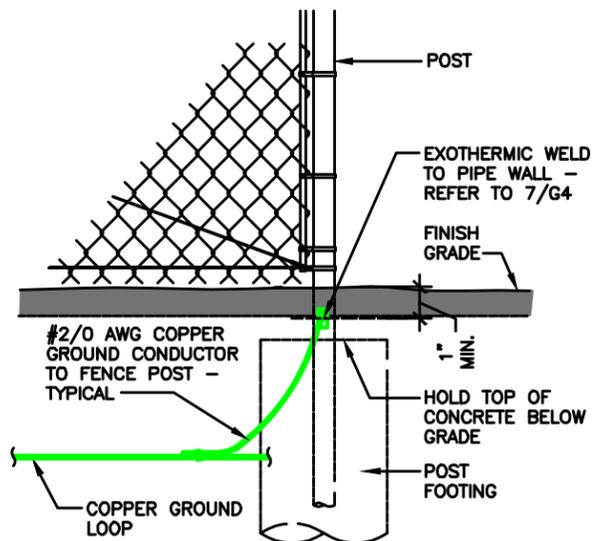
1 CHEMICAL GROUND ROD/INSPECTION WELL
G-2 SCALE: NTS



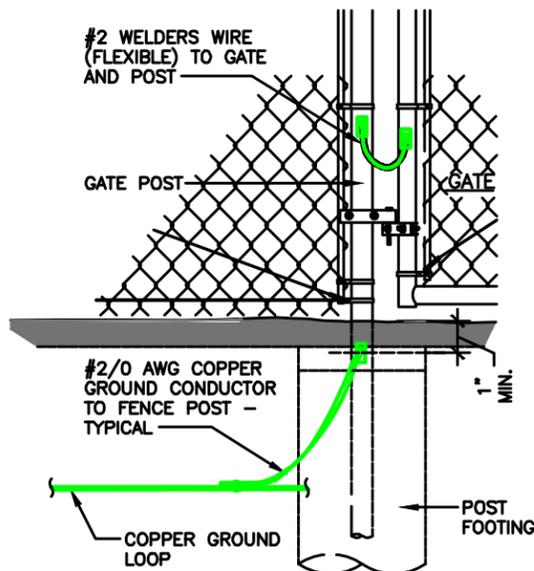
2 GALVANIZED STEEL GROUND ROD INSPECTION WELL
G-2 SCALE: NTS



3 GROUNDING RING TRENCH
G-2 SCALE: NTS



4 FENCE POST GROUNDING
G-2 SCALE: NTS



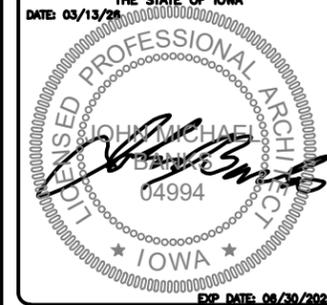
5 GATE POST GROUNDING
G-2 SCALE: NTS

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN LIQUID TIGHT CONDUITS A MINIMUM OF 6"-8" ABOVE AND BELOW GRADE/GRAVEL SURFACE FOR A TOTAL OF 12"-16".
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

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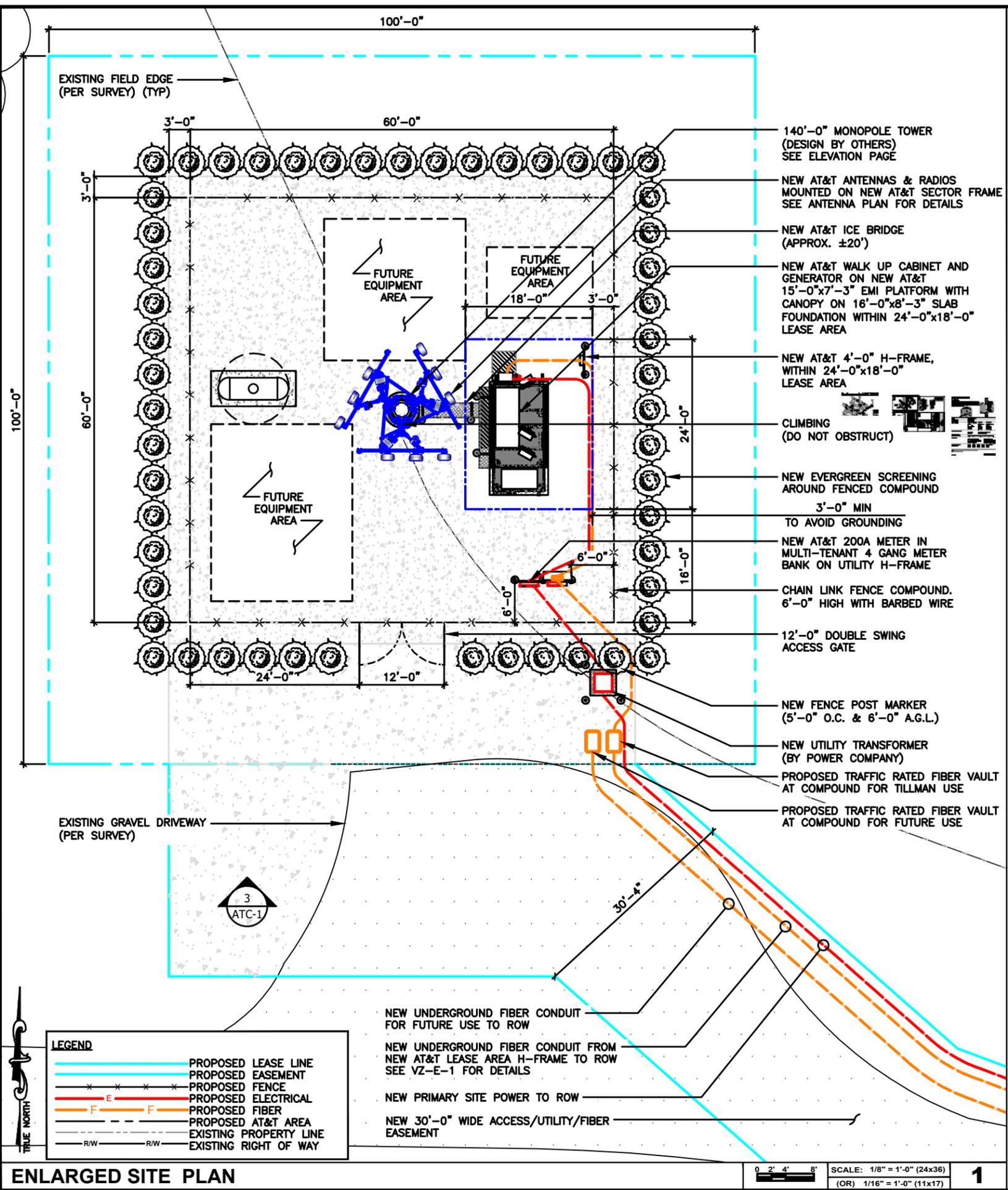


TILLMAN OPP# TI-OPP-28430
TILLMAN SITE NAME:
Novak SOLON IA TI-05714
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
GROUNDING
DETAILS

SHEET NUMBER
G-3

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- 140'-0" MONOPOLE TOWER (DESIGN BY OTHERS) SEE ELEVATION PAGE
- NEW AT&T ANTENNAS & RADIOS MOUNTED ON NEW AT&T SECTOR FRAME SEE ANTENNA PLAN FOR DETAILS
- NEW AT&T ICE BRIDGE (APPROX. ±20')
- NEW AT&T WALK UP CABINET AND GENERATOR ON NEW AT&T 15'-0"x7'-3" EMI PLATFORM WITH CANOPY ON 16'-0"x8'-3" SLAB FOUNDATION WITHIN 24'-0"x18'-0" LEASE AREA
- NEW AT&T 4'-0" H-FRAME, WITHIN 24'-0"x18'-0" LEASE AREA
- CLIMBING (DO NOT OBSTRUCT)
- NEW EVERGREEN SCREENING AROUND FENCED COMPOUND 3'-0" MIN TO AVOID GROUNDING
- NEW AT&T 200A METER IN MULTI-TENANT 4 GANG METER BANK ON UTILITY H-FRAME
- CHAIN LINK FENCE COMPOUND, 6'-0" HIGH WITH BARBED WIRE
- 12'-0" DOUBLE SWING ACCESS GATE
- NEW FENCE POST MARKER (5'-0" O.C. & 6'-0" A.G.L.)
- NEW UTILITY TRANSFORMER (BY POWER COMPANY)
- PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR TILLMAN USE
- PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR FUTURE USE

LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- x-x- PROPOSED FENCE
- E-E- PROPOSED ELECTRICAL
- F-F- PROPOSED FIBER
- PROPOSED AT&T AREA
- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY

- NEW UNDERGROUND FIBER CONDUIT FOR FUTURE USE TO ROW
- NEW UNDERGROUND FIBER CONDUIT FROM NEW AT&T LEASE AREA H-FRAME TO ROW SEE VZ-E-1 FOR DETAILS
- NEW PRIMARY SITE POWER TO ROW
- NEW 30'-0" WIDE ACCESS/UTILITY/FIBER EASEMENT

SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)



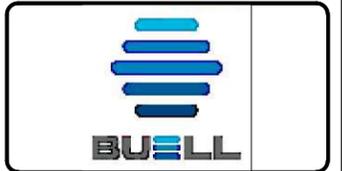
AT&T

AT&T SITE NUMBER: IAL03662
AT&T IWM NUMBER: WSUMW0026308
WSUMW0051966 WSUMW0053921 WSUMW0051967
WSUMW0051971 WSUMW0051982 WSUMW0063589
AT&T SITE NAME: SANDY BEACH RELO
FA CODE: 16282458
SITE ADDRESS: 3127 SANDY BEACH ROAD NE
SOLOM, IA 52333
TILLMAN SITE # TI-OPP-28430

SITE INFORMATION		
SITE ADDRESS:	3127 SANDY BEACH ROAD NE SOLOM, IA 52333	LANDLORD OWNER: BRENT NOVAK PHONE: 319-558-9784 EMAIL: CAPN.CRUNCH8@GMAIL.COM
LATITUDE (NAD 83):	41°49'35.8051"N (41.82661252°)	TOWER OWNER: TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019
LONGITUDE (NAD 88):	91°37'27.4383"W (-91.62428842°)	STRUCTURE TYPE: MONOPOLE TOWER TOWER
GROUND ELEVATION:	864.91' (AMSL)	STRUCTURE HEIGHT: 140'-0" (AGL)
JURISDICTION:	JOHNSON COUNTY	TILLMAN SITE #: TI-OPP-28430
ZONING:	AG	
PARCEL/MAP NUMBER:	0314153002	

PROJECT TEAM		DRAWING INDEX	
APPLICANT:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019	AT-T-1	TITLE SHEET & OVERALL SITE PLAN
PROJECT MANAGEMENT FIRM:	BUELL CONSULTING 720 MAIN STREET, SUITE 200 SAINT PAUL, MN 55118 AARON VALLEY (651) 470-1264	AT-C-1	ELEVATION, ANTENNA PLAN & SCHEDULE
ARCHITECT ENGINEERING:	JOHN M. BANKS 604 FOX GLEN BARRINGTON, IL 60010 CONTACT: JOHN M. BANKS PHONE: (847) 212-8354	AT-C-2	EQUIPMENT LAYOUT
		AT-C-2.1	EQUIPMENT LAYOUT
		AT-C-3	WALK UP CABINET DETAILS & SPECIFICATIONS
		AT-C-4	PLATFORM WITH CANOPY DETAILS
		AT-C-4.1	PLATFORM WITH CANOPY DETAILS
		AT-C-4.2	EQUIPMENT CONCRETE PAD DETAIL
		AT-C-5	GENERATOR SPECIFICATIONS
		AT-C-5.1	GENERATOR DETAILS
		AT-C-6	CONSTRUCTION DETAILS
		AT-C-6.1	CONSTRUCTION DETAILS
		AT-C-7	RRR, ANTENNA & EQUIPMENT SPECIFICATIONS
		AT-E-1	ENLARGED UTILITY PLAN
		AT-E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM & NOTES
		AT-E-2.1	SINGLE LINE DIAGRAM
		AT-E-3	DC/FIBER SYSTEM DIAGRAM
		AT-E-4	DC WIRING DIAGRAM
		AT-G-1	GROUNDING PLAN & RISER DIAGRAM
		AT-G-2	GROUNDING DETAILS & NOTES

CODE COMPLIANCE	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.	
<ul style="list-style-type: none"> • 2018 INTERNATIONAL BUILDING CODE • 2020 NATIONAL ELECTRICAL CODE • 2018 NFPA 101, LIFE SAFETY CODE • 2018 INTERNATIONAL FIRE CODE • AMERICAN CONCRETE INSTITUTE • AMERICAN INSTITUTE OF STEEL CONSTRUCTION • MANUAL OF STEEL CONSTRUCTION 13TH EDITION • ANSII/TIA-222-H 	<ul style="list-style-type: none"> • TIA 607 • INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81 • IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION • TELECORDIA GR-1275 • ANSII/TIA 311



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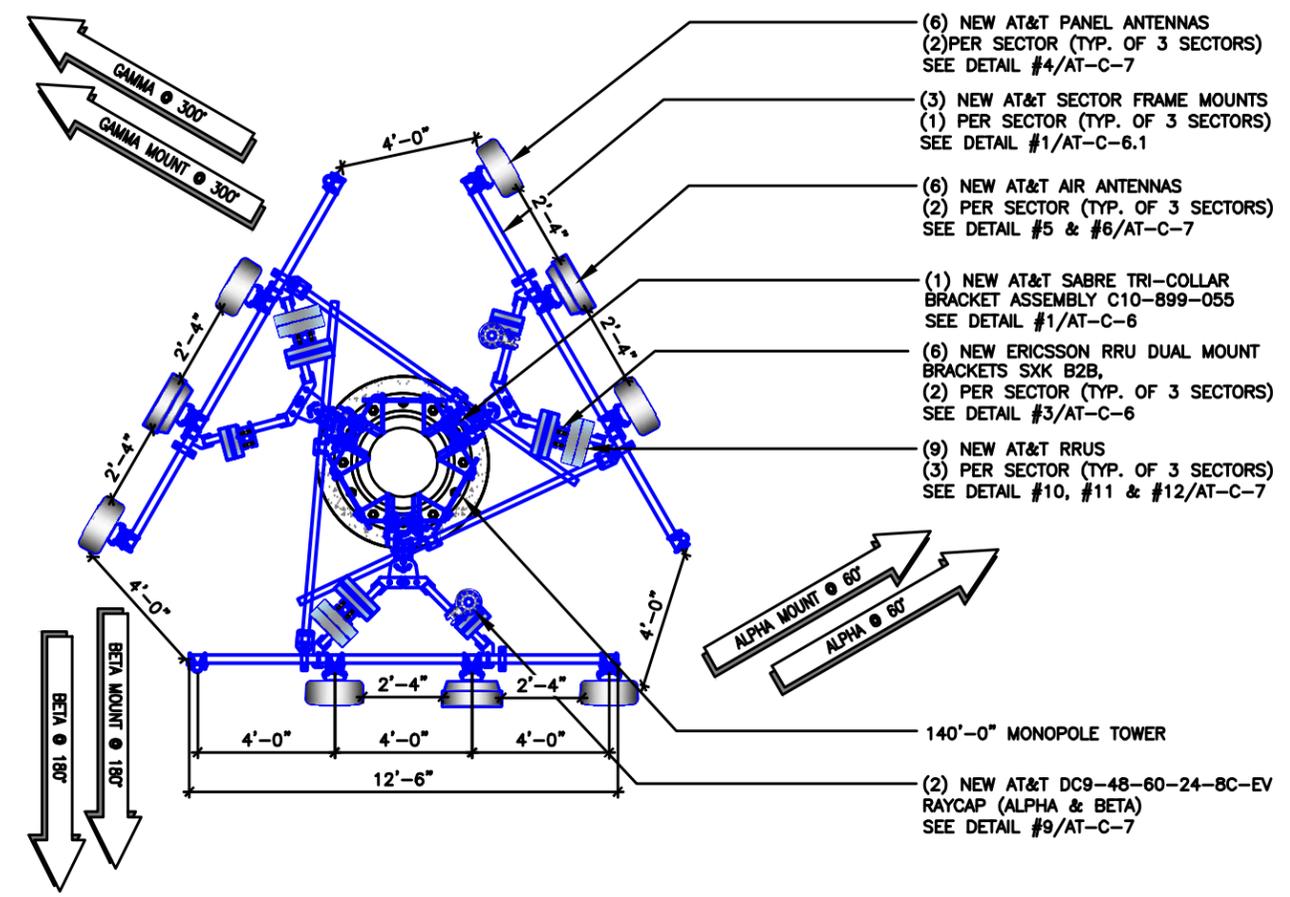
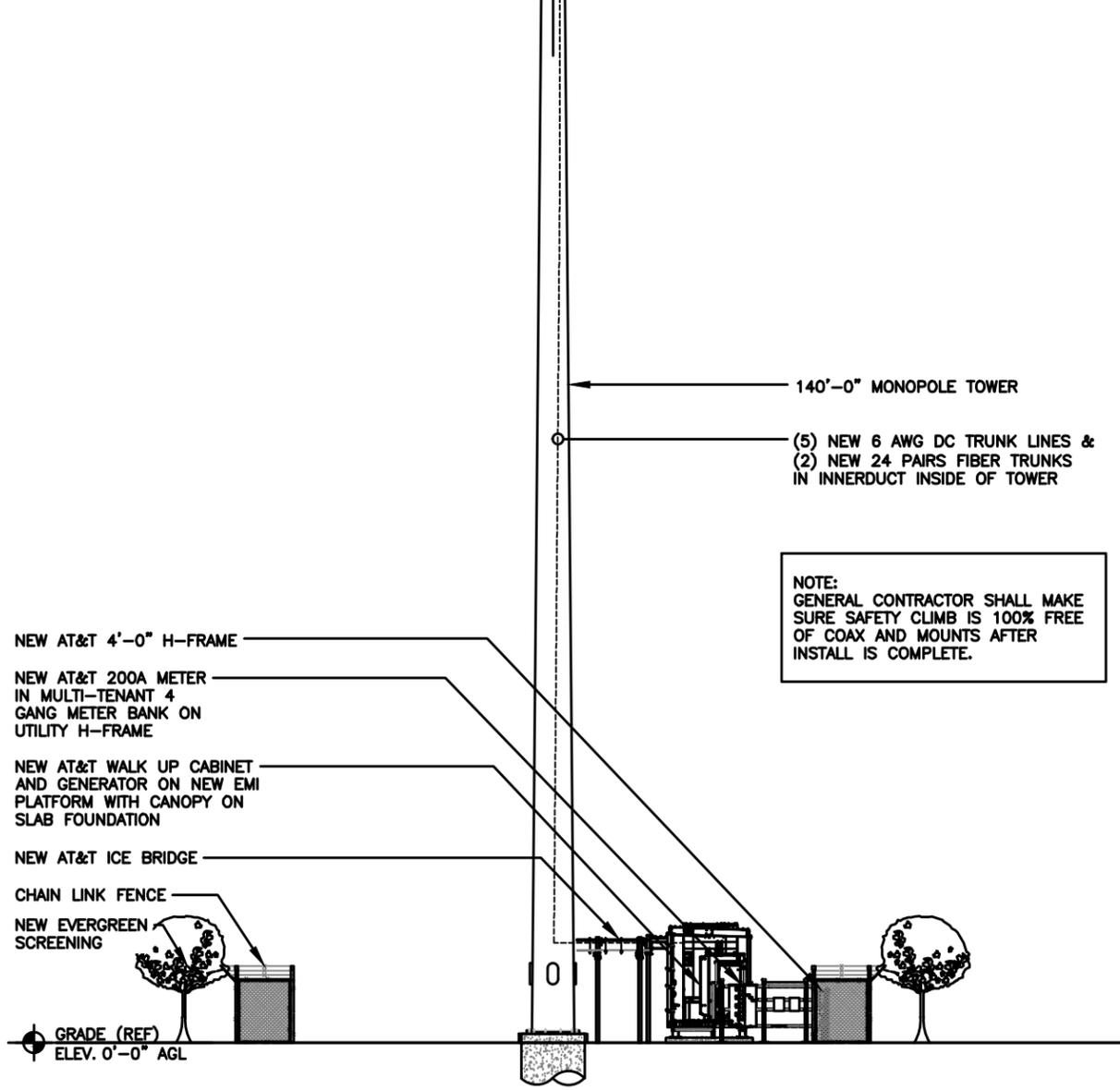
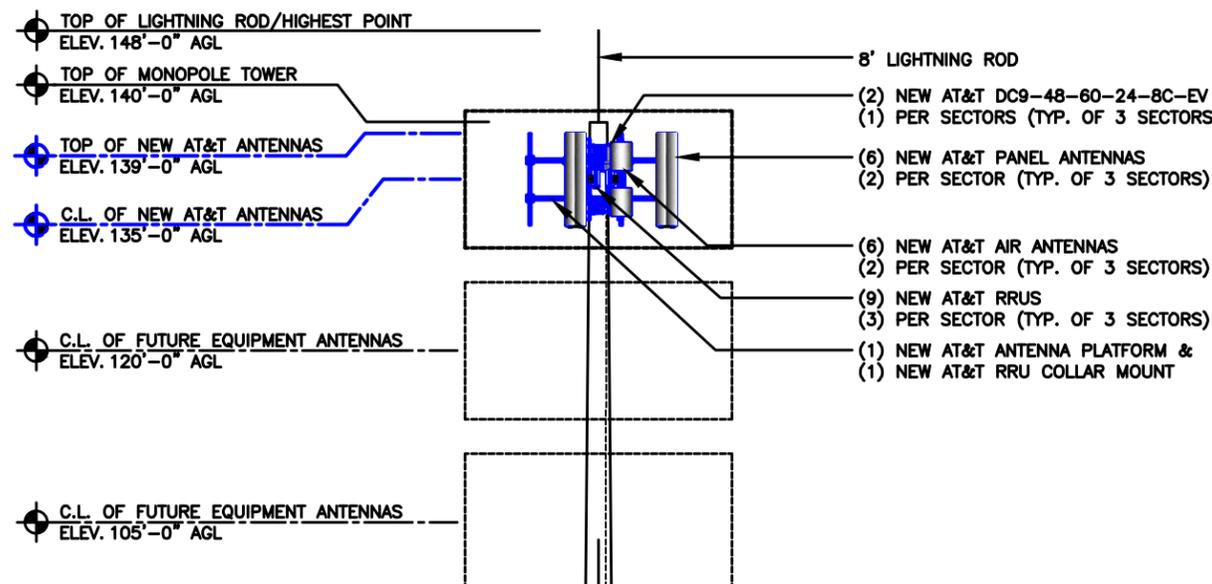
AT&T SITE # IAL03662
AT&T SITE NAME: SANDY BEACH RELO
FA # 16282458
SITE ADDRESS: 3127 SANDY BEACH ROAD NE
SOLOM, IA 52333

SHEET TITLE
TITLE SHEET & OVERALL SITE PLAN

SHEET NUMBER
AT-T-1

ENLARGED SITE PLAN

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ANTENNA LAYOUT (MONOPOLE TOWER)

SCALE
N.T.S. **2**

ANTENNA AND RRH SCHEDULE BASED ON AT&T RFDS DATED: 01/30/26

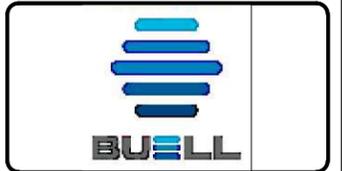
SECTOR	ANTENNA	TECH	ANTENNA C. HEIGHT	AZIMUTH	RRU MODEL
ALPHA	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700	135'-0"±	60°	RRUH 4472 B12A
	ERICSSON AIR6419 B77D AIR6419 B77G STACKED*	5G CBAND	137'-0"± 133'-0"±	60°	INTEGRATED
	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700 LTE 1900 LTE AWS	135'-0"±	60°	RRUH 4494 B14/B29 RRUH 4890 B25/B66
BETA	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700	135'-0"±	180°	RRUH 4472 B12A
	ERICSSON AIR6419 B77D AIR6419 B77G STACKED*	5G CBAND	137'-0"± 133'-0"±	180°	INTEGRATED
	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700 LTE 1900 LTE AWS	135'-0"±	180°	RRUH 4494 B14/B29 RRUH 4890 B25/B66
GAMMA	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700	135'-0"±	300°	RRUH 4472 B12A
	ERICSSON AIR6419 B77D AIR6419 B77G STACKED*	5G CBAND	137'-0"± 133'-0"±	300°	INTEGRATED
	COMMSCOPE ANTENNA NNH4-65C-R6-V4	LTE 700 LTE 1900 LTE AWS	135'-0"±	300°	RRUH 4494 B14/B29 RRUH 4890 B25/B66

CABLE COUNT

QUANTITY	CABLE TYPE
5	6 CONDUCTOR (3 PR) 3/4" DC CABLE
2	36 FIBER (24 PR) 10MM FIBER
2	DC9 SQUIDS

ELEVATION SCALE N.T.S. **3**

ANTENNA AND RRH SCHEDULE SCALE N.T.S. **1**



WESTCHESTER SERVICES LLC
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 BARRINGTON, IL 60010
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 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

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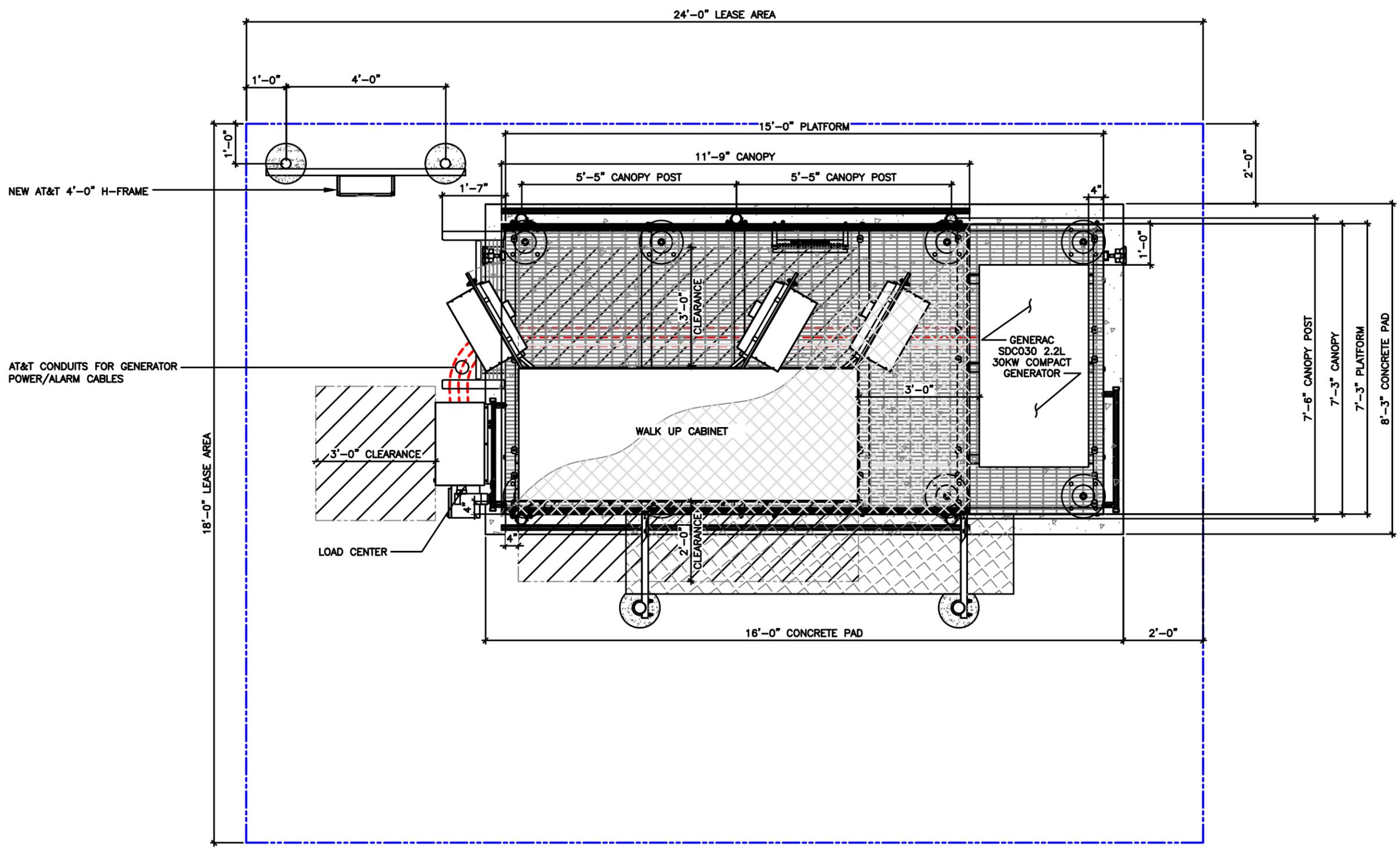
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 FA # 16282458
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 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
**ELEVATION, ANT.
 PLAN & SCHEDULE**

SHEET NUMBER
AT-C-1

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SEE SITE PLAN FOR LEASE AND EQUIPMENT ORIENTATION



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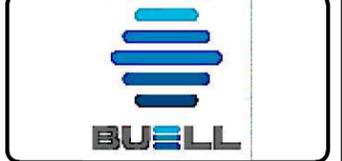
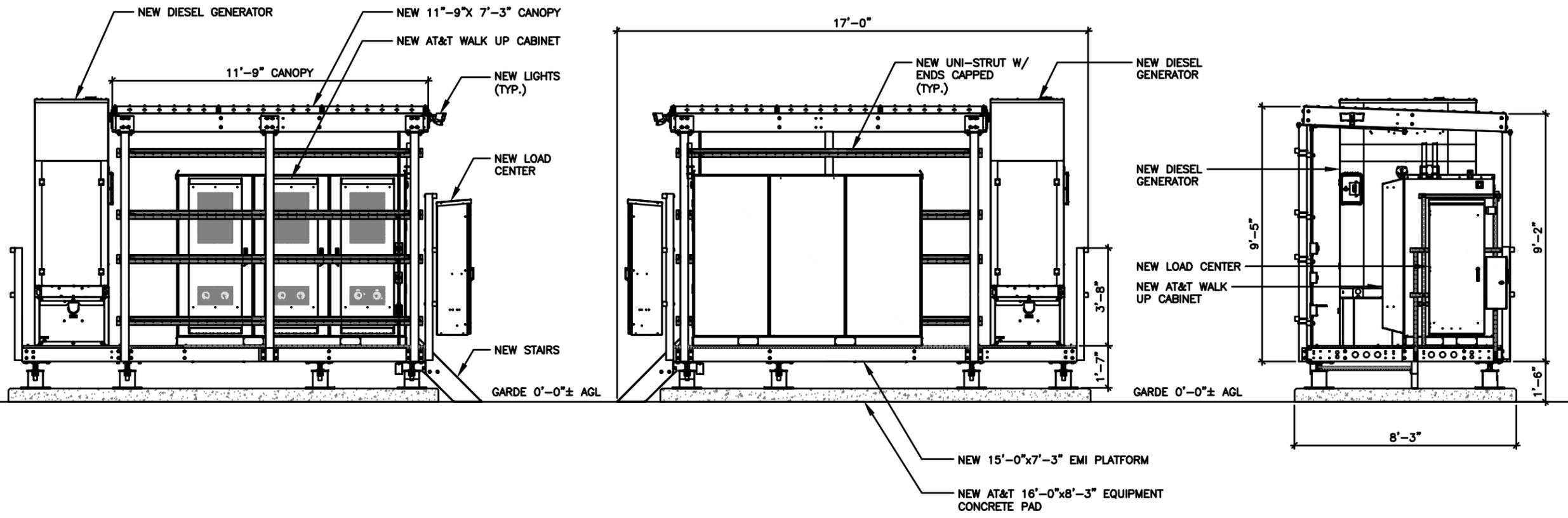
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SHEET TITLE
 EQUIPMENT LAYOUT

SHEET NUMBER
AT-C-2

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SHEET TITLE
EQUIPMENT LAYOUT

SHEET NUMBER
AT-C-2.1

ESOF030-HCU Series

Outdoor Cabinet



There are lots of external forces can threaten the outdoor system, not only the temperature but also the humidity. Then the cooling function plays an important role in the power system, and the flexibility is also the common requirement to apply several kinds of electronics. ESOF030-HCU Series is developed for that.

Beside well protected by robust enclosure with IP55 class, the internal configuration can be adjusted easily, such as the numbers of wall layers, the type of thermal systems.

To keep the sensitive modules, batteries functioning in a high level and to reduce the CAPEX and OPEX, ESOF030-HCU Series is the ideal solution for the challenges. Your concern, our mission.

Key Features

- 48Vdc Output for telecommunication applications
- HEX Cooling
- IP55 protection class for outdoor application
- Perfectly integrated with Delta Telecom Power system controller

Applications

- 3G / 4G / 5G
- Fixed Line
- Datacom

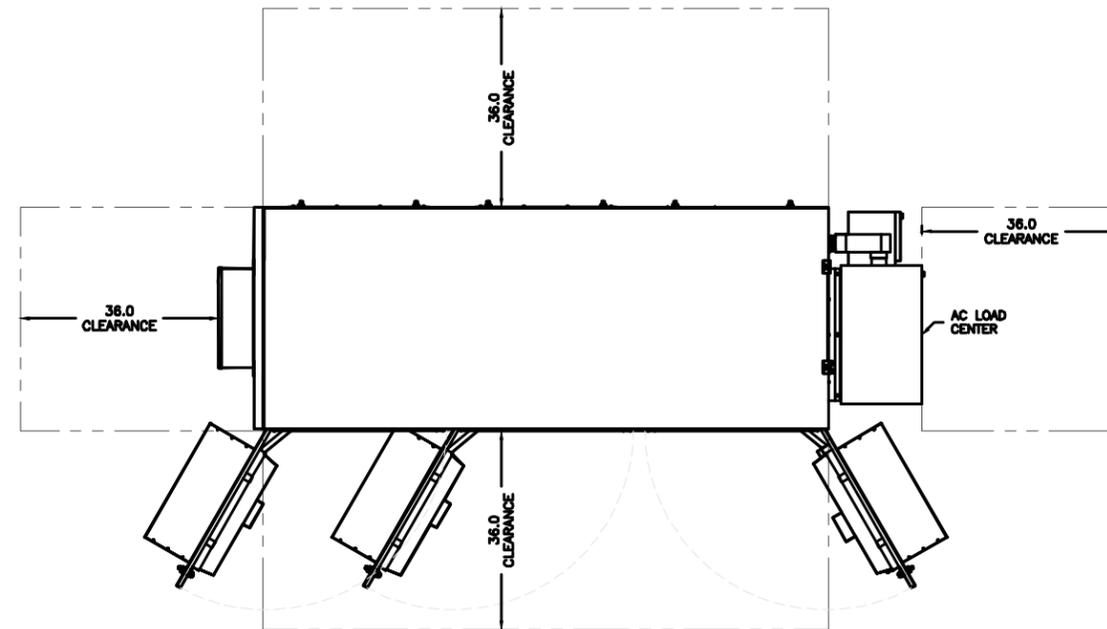


ESOF030-HCU Series

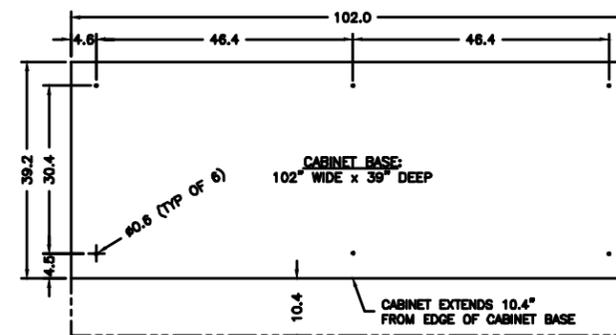


AC INPUT	
Voltage (nominal)	Single phase, W-N+PE (L1, N, FG); 110-120Vdc
Voltage (range)	Single phase, W-N+PE (L1, N, FG); 110-120Vdc
Frequency	50/60Hz
DC INPUT	
Voltage (nominal)	-5Vdc
Voltage (default)	-5Vdc
Voltage (adjustable range)	-40 to -40dc
Maximum Power @ nominal input	224A (Max.)
MECHANICAL	
Dimensions (W x H x D)	2590.8 x 1828.8 x 1257.3mm (102.0 x 72.0 x 49.5in)
Weight	approx. 1030kg (2270.7lb) (empty enclosure with packing)
ENVIRONMENTAL	
Operating Temperature	0°C to +40°C (32°F to +104°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Altitude	0 to +4000m
Relative Humidity	95%, non-condensing (Max.)
Acoustic Noise	65dBA
Cooling	Thermoelectric x3
Heating	Heater x4
STANDARDS	
Safety	UL Compliance
EMC	OR 1089
Environment	RoHS

Delta Electronics Inc.
3 Tungshuan Road, Chungli Industrial Zone,
Taoyuan City 32303, Taiwan
T +886 3 452 8107 / F +886 3 452 7314
www.deltaweb.com



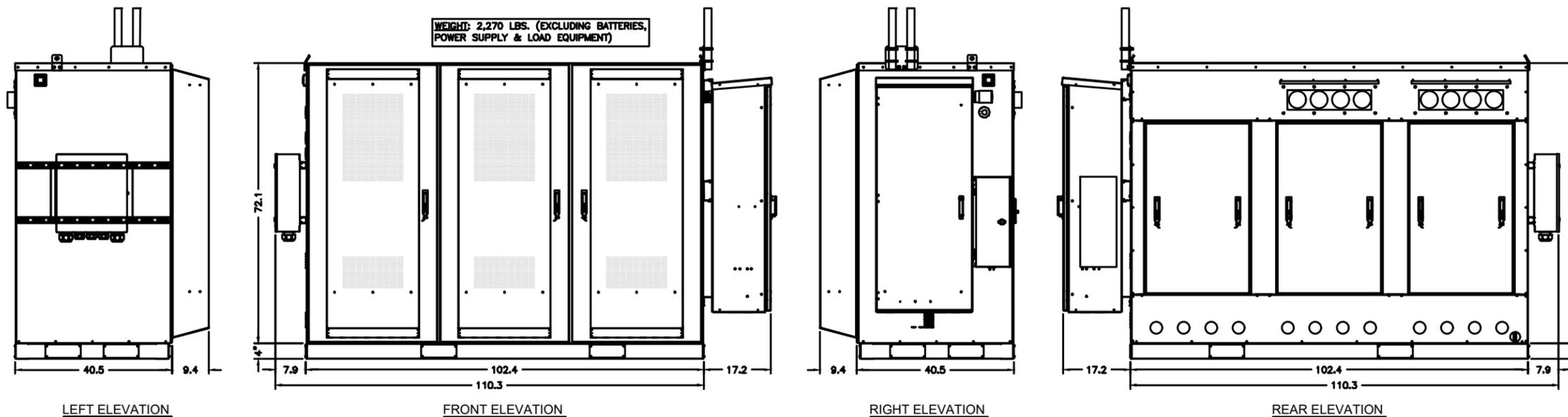
PLAN VIEW



CABINET BASE

AT&T EQUIPMENT SPECIFICATION

SCALE
N.T.S. 1



WEIGHT: 2,270 LBS. (EXCLUDING BATTERIES, POWER SUPPLY & LOAD EQUIPMENT)

WEIGHT: 2,270 LBS. (EXCLUDING BATTERIES, POWER SUPPLY & LOAD EQUIPMENT)

WALK UP CABINET (WUC) DETAILS

SCALE
N.T.S. 1



WESTCHESTER SERVICES LLC
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX: 847.277.0080
AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-212-8354

DRAWN BY:	DS	
CHECKED BY:	MC	
REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

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DATE: 03/13/26
PROFESSIONAL ARCHITECT
JOHN MICHAEL BANKS
04994
IOWA
EXP. DATE: 06/30/2028

AT&T SITE # IAL03662
AT&T SITE NAME:
SANDY BEACH RELO
FA # 16282458
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
WALK UP CABINET
DETAILS

SHEET NUMBER
AT-C-3

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REVISIONS				
REV. DCN #	DESCRIPTION	DATE	BY	APPROVED
20	01182	08/31/2022	JTR	JPB
VIRTUAL UNISTRUT CONVERTED TO INDIVIDUAL PARTS NO'S.				



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 BARRINGTON, IL 60010
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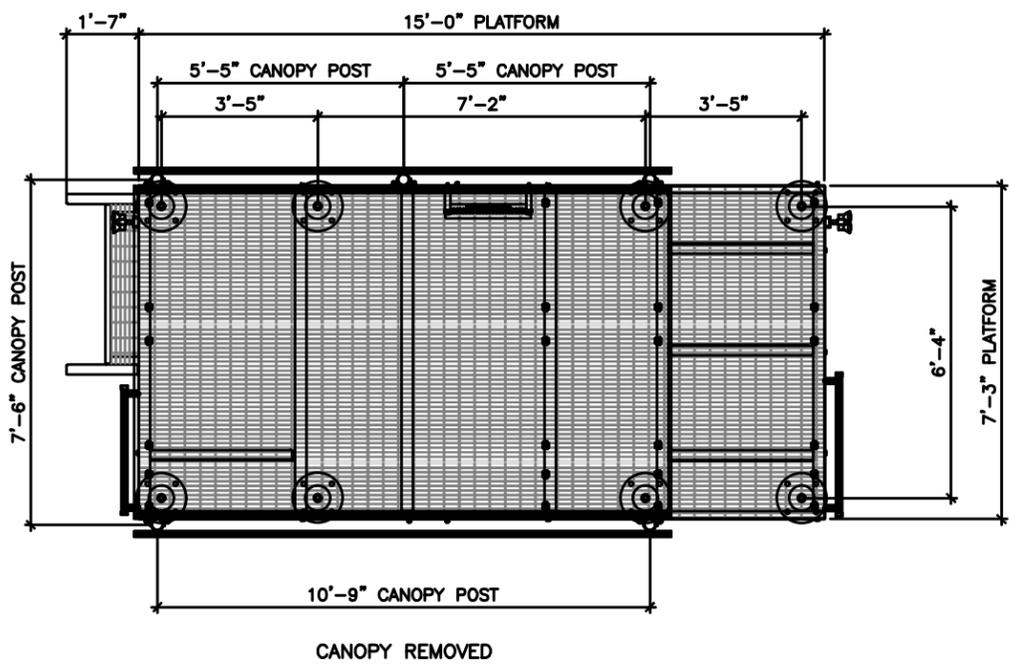
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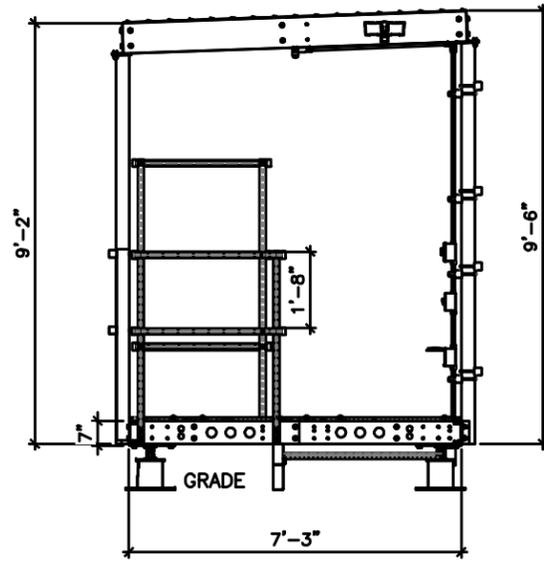
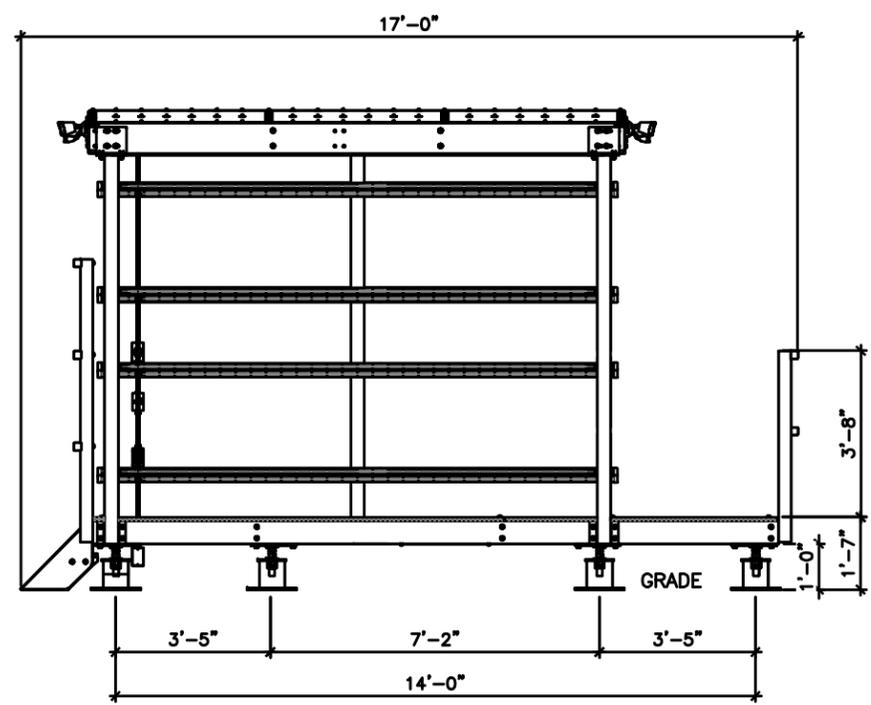
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SOLOM, IA 52333

SHEET TITLE
PLATFORM WITH CANOPY DETAILS

SHEET NUMBER
AT-C-4



CANOPY REMOVED



ITEM NO.	QTY REQD	PART NUMBER	DESCRIPTION	LENGTH	WEIGHT
1	1	1001-0020-0056	EMERSON BOLT TOGETHER PLATFORM 87" X 180"		1600.8
2	1	1001-0030-0030	BOLT TOGETHER CANOPY W. EXPANDED METAL ROOF 140.875" X 87.1875"		1291.1
3	1	1003-0020-0002	1 TREAD STAIR ASSY (42" WIDE)		55.4
4	3	P-006-282	VERT. HANDRAIL, UNISTRUT	50"	12.2
5	3	P-006-283	SHORT SIDE MOUNTING RAIL, UNISTRUT	36"	4.1
6	8	P-006-284	LONG SIDE MOUNTING RAIL, UNISTRUT	136"	15.6
7	2	P-006-286	LONG SIDE HANDRAIL, UNISTRUT	52"	6.0
8	2	P-006-285	SHORT SIDE HANDRAIL, UNISTRUT	40"	4.6
9	2	P-006-281	VERT. MOUNTING RAIL, UNISTRUT	74"	18.0
10	1	1000-0000-0119	ELECTRICAL KIT		20.8
11	26	002-00U-G046	U-BOLT, .375-16 X 1.75 THD LNG., 3.625 I.D X 5.25 HT, GALV		0.052
12	12	002-0BG-0258	HB, .375-16 X 4.50 LG., PT X 1.00, GR. 5, HDG	4.50	0.159
13	76	002-0FW-G005	WASHER, FLAT, .375, GALV		0.01
14	64	002-0LW-G005	WASHER, SPLIT LOCK, .375 INCH, GALV.		0.01
15	64	002-0NG-0018	NUT, HEX, .375-16UNC, GR 5, GALV		0.02
16	12	002-0BG-0012	HFB, .500-13 X 1.75 LG., PT X 1.00, A325, HDG	1.75	0.2
17	10	002-0BG-0010	HFB, .500-13 X 1.50 LG., PT X 1.00, A325, HDG	1.50	0.14
18	2	002-0SW-H001	WASHER, SQUARE, .50" ID X 2" X .25"		0.27
19	44	002-0FW-G002	FW, .50, F436, HDG		0.02
20	22	002-0LW-G002	WASHER, SPLIT LOCK, .500", GALV		0.01
21	22	002-0NG-0010	NUT, HEX, .500-13UNC, GR 2H, GALV		0.06
22	30	309-000-0008	STRUT CHANNEL CAP 1.625" X 1.625"		0.05
23	1	1000-0000-0075	GROUND BAR KIT		8.83
24	8	A-000-250	CORNER FOOT MOUNT ASSY, 2 LEVELING WASHERS		14.1
25	8	1008-0010-0015	8" FOOT AND HARDWARE ASSY., 1" HARDWARE		35.1

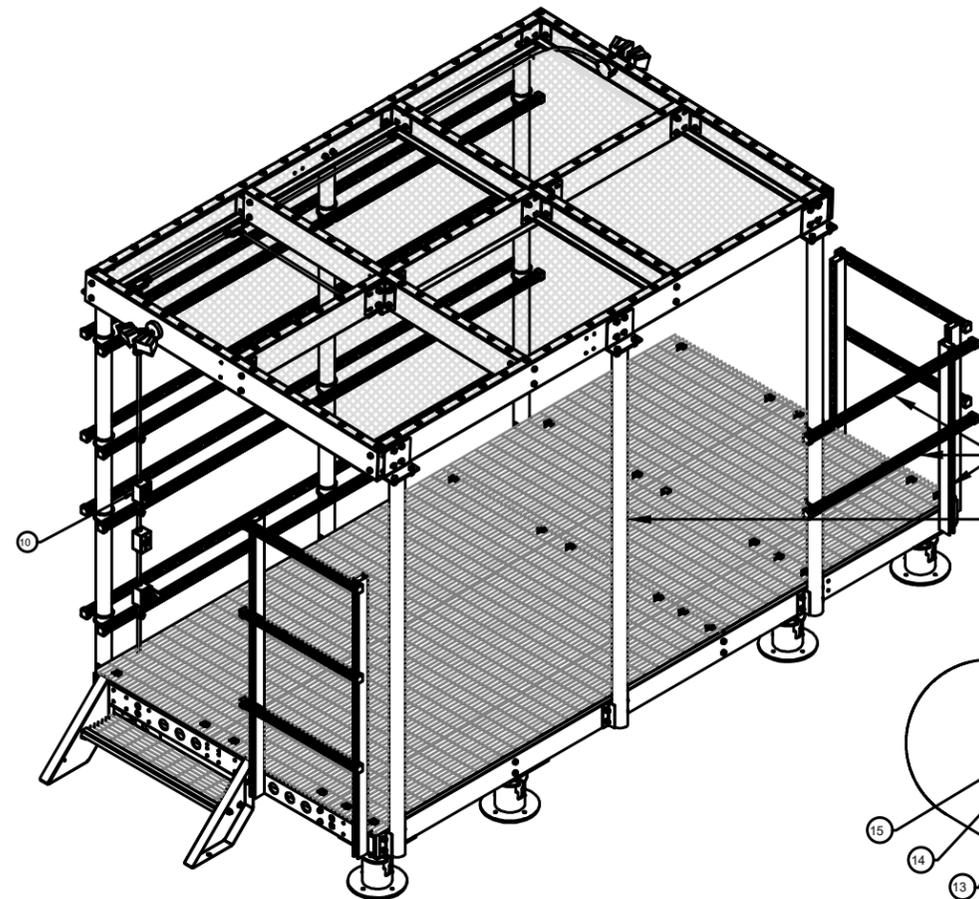
SURFACE FINISH	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	APPROVALS	DATE	ELECTRO MECHANICAL INDUSTRIES, INC. 11230 NEESESHAW DRIVE HOUSTON, TEXAS 77065 1-800-453-0050
MATERIAL	SEE PARTS LIST	TOLERANCES	DRAWN	12/18/2018	TITLE: 87"X180" BOLT TOGETHER PLATFORM GRAVITY MOUNT W EXPANDED METAL CANOPY
THIRD ANGLE PROJECTION		FRACTIONS	CHECKER	12/21/2018	
		ANGLES	ENGINEER	12/21/2018	
NEXT ASSY	USED ON	HOLES: DRILLED OR PUNCHED	PRODUCTION	12/26/2018	
APPLICATIONS		BURNED			SIZE: B DRAWING NO.: 1000-0010-0131 SCALE: 1:45 WEIGHT: 3614.7 lbs. SHEET 1 OF 4

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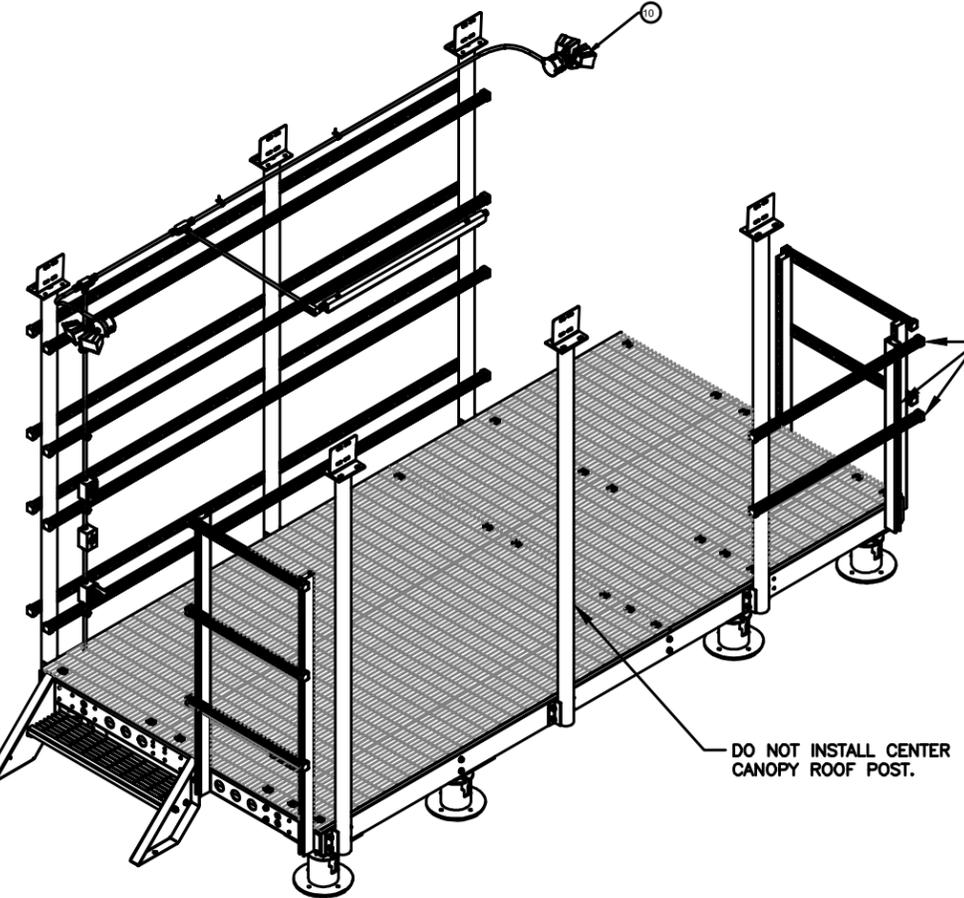
PLATFORM WITH CANOPY DETAILS

SCALE
N.T.S.
1

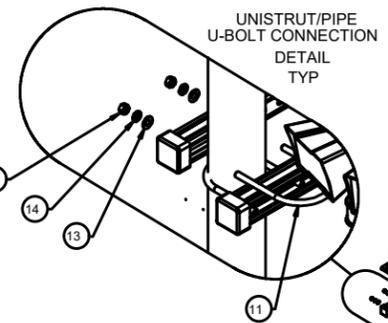
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CANOPY TOP HIDDEN FOR CLARITY



DO NOT INSTALL CENTER CANOPY ROOF POST.



UNISTRUT/PIPE U-BOLT CONNECTION DETAIL TYP

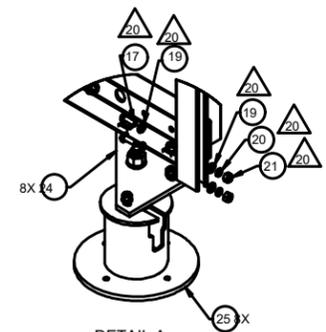
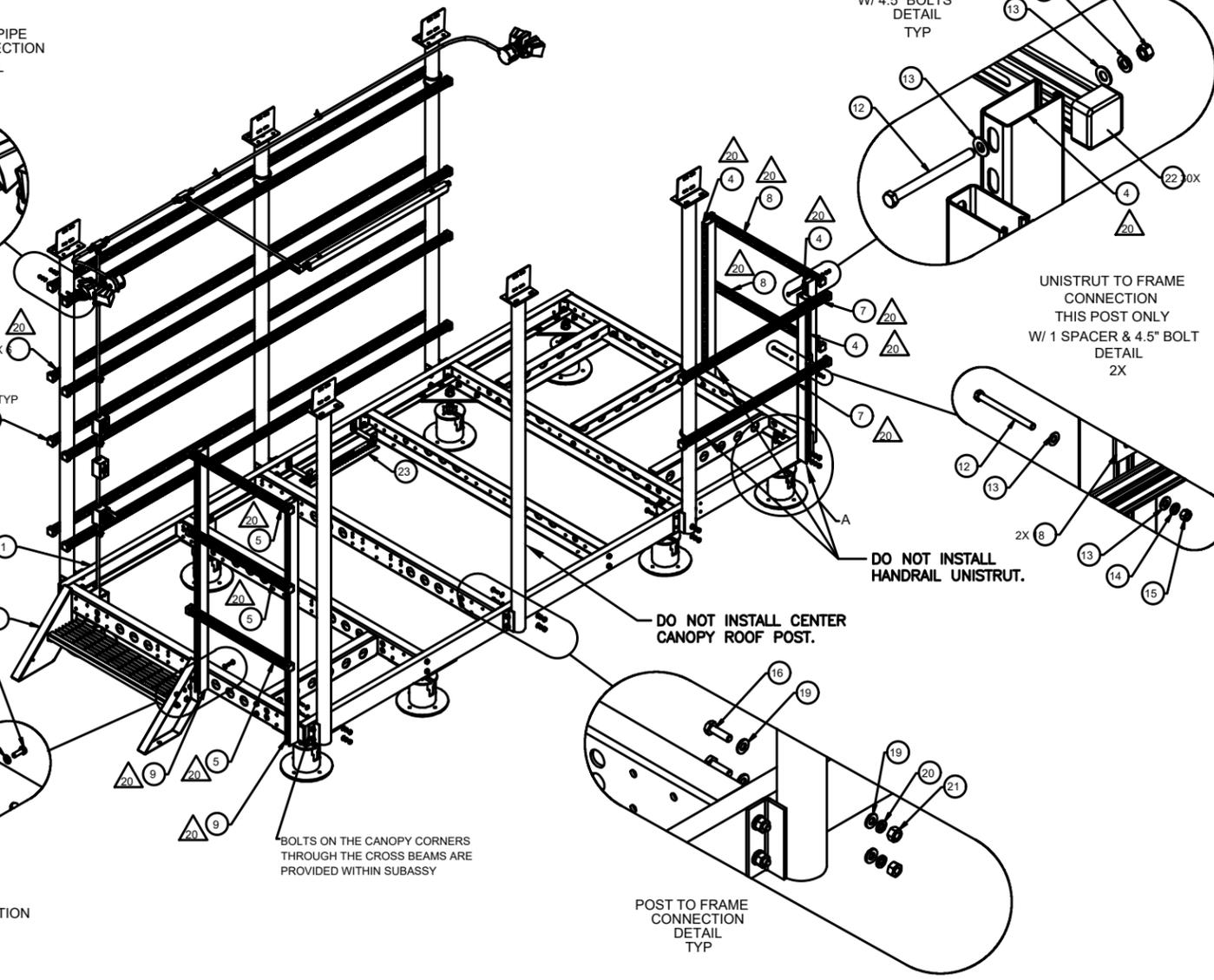
END CAPS TYP 30X 2

DO NOT INSTALL HANDRAIL UNISTRUT.

CONNECTS USING SUBASSY HARDWARE

UNISTRUT CONNECTION DETAIL

CANOPY TOP HIDDEN FOR CLARITY



DETAIL A GRAVITY FOOT DETAIL TYP. AND UNISTRUT TO FRAME CONNECTION

UNISTRUT CONNECTION W/ 4.5\"/>

UNISTRUT TO FRAME CONNECTION THIS POST ONLY W/ 1 SPACER & 4.5\"/>

DO NOT INSTALL HANDRAIL UNISTRUT.

DO NOT INSTALL CENTER CANOPY ROOF POST.

POST TO FRAME CONNECTION DETAIL TYP

BOLTS ON THE CANOPY CORNERS THROUGH THE CROSS BEAMS ARE PROVIDED WITHIN SUBASSY



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 FAX: 847.277.0080
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 BARRINGTON, IL 60010
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 FA # 16282458
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
PLATFORM WITH CANOPY DETAILS

SHEET NUMBER
AT-C-4.1

PLATFORM WITH CANOPY DETAILS

SCALE
 N.T.S.

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1. MEET OR EXCEED THE FOLLOWING CODES AND STANDARDS:

DESIGN	ACI 318
CONSTRUCTION	ACI 301
HOT WEATHER PLACEMENT	ACI 305
COLD WEATHER PLACEMENT	ACI 306
CEMENT	ASTM C-150 (TYPE I)
REINFORCING BARS	ASTM A-615
WIRE MESH	ASTM A-185
NORMAL WT AGGREGATE	ASTM C-33
MIXING	ASTM C-94
ADMIXTURES	ASTM C-494
AIR ENTRAINMENT	ASTM C-260
WATER	POTABLE
DETAILING	CRSI MANUAL OF STANDARD PRACTICE

2. CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

3. PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 4% TO 7%. FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.

4. ALL REINFORCING STEEL SHALL BE GRADE 60.

5. MINIMUM CONCRETE COVER FOR REINFORCING BARS:

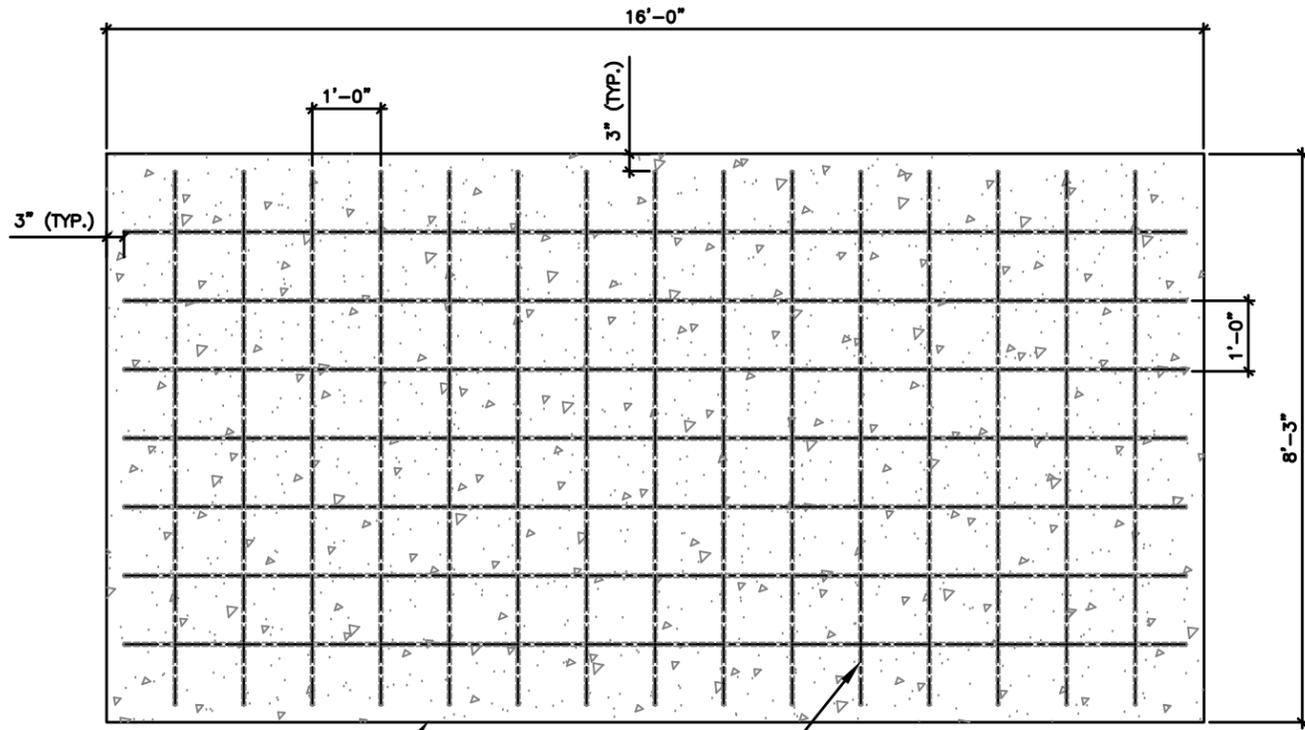
- A. CAST AGAINST AND EXPOSED TO EARTH: 3"
- B. EXPOSED TO EARTH OR WEATHER (NO. 5 AND SMALLER): 1-1/2"
- C. EXPOSED TO EARTH OR WEATHER (NO. 6 AND LARGER): 2"

6. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

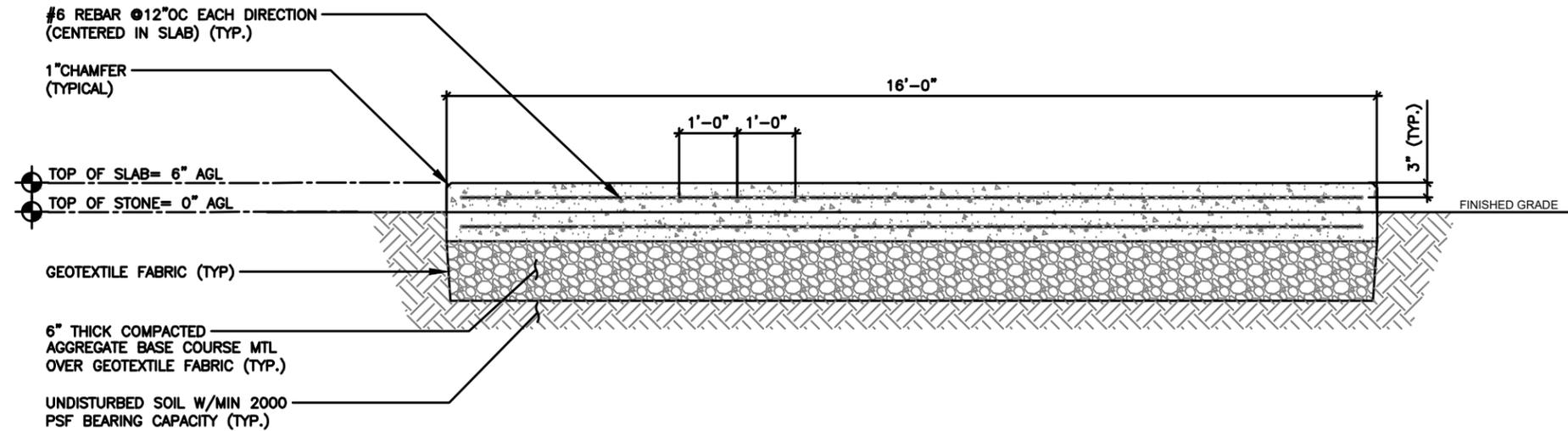
7. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT.

CONCRETE NOTES

SCALE	3
N.T.S.	



4,000 PSI CONCRETE
#6 @ 12"O.C. BOTH WAYS

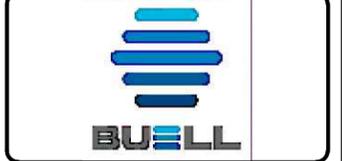


NOT USED

SCALE	2
N.T.S.	

EQUIPMENT CONCRETE PAD DETAIL

SCALE	1
N.T.S.	



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BARRINGTON, IL 60010
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PROFESSIONAL ARCHITECT
JOHN M. BANKS
04994
IOWA
EXP. DATE: 06/30/2028

AT&T SITE # IAL03662
AT&T SITE NAME:
SANDY BEACH RELO
FA # 16282458
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
SOLON, IA 52333

SHEET TITLE
EQUIPMENT
CONCRETE PAD
DETAIL

SHEET NUMBER
AT-C-4.2

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SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



Standby Power Rating
30 kW, 38 kVA, 60 Hz



Image used for illustration purposes only



Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
ULC C22.2, ULC S601
BS5514 and DIN 6271
SAE J1349
NFPA 37, 70, 99, 110
NEC700, 701, 702, 708
ISO 3046, 7637, 8528, 9001
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



STANDARD FEATURES

- ENGINE SYSTEM: Oil Drain Extension, Air Cleaner, Stainless Steel Flexible Exhaust Connection, Engine Coolant Heater with Isolation Ball Valve, Factory Filled Oil and Coolant
ALTERNATOR SYSTEM: UL2200 GENprotec™, Class H Insulation Material, 2/3 Pitch, Skewed Stator, Permanent Magnet Excitation, Sealed Bearing, Rotor Dynamically Spin Balanced, Amorphous Winding (3-Phase Only), Full Load Capacity Alternator, Protective Thermal Switch
ENCLOSURE: Aluminum Enclosure, Rust-Proof Fasteners with Nylon Washers to Protect Finish, High Performance Sound-Absorbing Material, Gasketed Doors, Twist-Lock Handle, RhinoCoat™ - Textured Polyester Powder Coat Paint, Up to 70 mph Snow Load Rating, Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
FUEL SYSTEM: Fuel Lockoff Solenoid, Primary Fuel Filter
COOLING SYSTEM: Closed Coolant Recovery System, UV/Corrosion Resistant Hoses, Factory-Installed Radiator, Radiator Drain Extension, 50/50 Ethylene Glycol Antifreeze, Fan Guard
ELECTRICAL SYSTEM: Battery Charging Alternator, Battery Cables, Battery Tray, Rubber-Booted Engine Electrical Connections, Solenoid Activated Starter Motor, SA Battery Charger

CONTROL SYSTEM



Power Zone® 410 Controller

Features

- Programmable Auto Crank, Selectable Low Speed Exercise, RS-232C2, RS-485C2, All-Phase Sensing Digital Voltage Regulator, I²T Function for Full Generator Protection (Contact Factory), Full System Status Display, Multilingual 128x64 Graphical Display with Heater, Easy Status View LED Screen, Full System Status, Run Hours, Service Reminders

- Emergency Stop, Modbus™ RTU, Remote Pans, CANbus, Full Range Standby Operation, 3-Phase AC Volts, 3-Phase Amps, kW, Power Factor, Ruptured Tank Detection, Auxiliary Shutdown Switch, Remote Communications, Compatible with NFPA 110, Level 1 or 2 (When Optional Modules Selected), Line Power/Gen Power, I²T Function for Full Generator Protection (Contact Factory)

- Fault History (Alarm Log), Oil Pressure, Oil Temperature Indication and Alarm, Output for Fuel Level High/Low Warning, Water Temperature, Water Level, Fuel Pressure/Level, Engine Speed, Battery Voltage, Alternator Frequency

Alarms and Warnings

- Common Alarm Output

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



CONFIGURABLE OPTIONS

- ENGINE SYSTEM: Oil Heater, Two-Stage Air Cleaner, Level 1 Belt Guard
ENCLOSURE: AC/DC Enclosure Light, Door Open Alarm Horn
WARRANTY (Standby Gensets Only): 2 Year Extended Limited Warranty, 5 Year Limited Warranty, 100 dB Alarm Horn, 5 Year Extended Limited Warranty, 10 Year Extended Limited Warranty
ELECTRICAL SYSTEM: 10A UL Listed Battery Charger, Battery Warmer
ALTERNATOR SYSTEM: Anti-Condensation Heater, Tropical Coating
GENERATOR SET: Extended Factory Testing, Pad Vibration Isolators

ENGINEERED OPTIONS

- GENERATOR SET: Special Testing
FUEL TANKS: UL2085 Tank, Stainless Steel Tanks, Special Fuel Tanks, Fluid Containment Pan

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

Table with columns for General, Cooling System, Fuel System, Engine Governing, Lubrication System, and Alternator Specifications. Includes details like Make, Perkins, Cooling System Type, Fuel Type, and Governor.

ALTERNATOR SPECIFICATIONS

Table with columns for Standard Model, Poles, Field Type, Insulation Class - Rotor, Insulation Class - Stator, Total Harmonic Distortion, Telephone Interference Factor (TF), Standard Excitation, Permanent Magnet Excitation, Bearings, Coupling, Load Capacity - Standby, Prototype Short Circuit Test, Voltage Regulator Type, Number of Sensed Phases, Regulation Accuracy (Steady State).

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

Table showing Standby power ratings for Single-Phase 120/240 VAC @0.8pf, Three-Phase 120/240 VAC @0.8pf, and Three-Phase 277/480 VAC @0.8pf.

MOTOR STARTING CAPABILITIES (skVA)

Table showing skVA vs. Voltage Dip for 120/240 VAC 10, 277/480 VAC 30, and 208/240 VAC 30.

FUEL CONSUMPTION RATES*

Table showing Fuel Pump Lift - ft (m), Diesel - gph (Lph), and Total Fuel Pump Flow (Combustion + Return) - gph (Lph) at various Percent Loads.

COOLING

Table showing Air Flow, Coolant Flow, Coolant System Capacity, Heat Rejection to Coolant, Maximum Operating Ambient Temperature, and Maximum Operating Ambient Temperature (Before Derate).

COMBUSTION AIR REQUIREMENTS

Table showing Flow at Rated Power - cfm (m³/min) for Standby.

EXHAUST

Table showing Rated Engine Speed, Horsepower at Rated kW, Piston Speed, BMEP, Exhaust Flow (Rated Output), Maximum Allowable Backpressure (Post Silencer), and Exhaust Temperature (Rated Output).

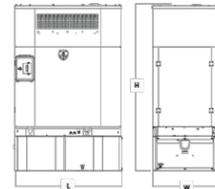
* Refer to "Emissions Data Sheet" for maximum BHP for EPA and SCAQM permitting purposes.

Derate - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO9046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 018700558. Prime - See Bulletin 0197510588.

SDC030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
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DIMENSIONS AND WEIGHTS*



COMPACT VARIANT

Table showing Run Time, Usable Capacity, L x W x H - in (mm), and Weight - lbs (kg) for different tank capacities.

* All measurements are approximate and for reference purposes only. Specifications characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.



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CHECKED BY: MC

Table with columns REV, DATE, DESCRIPTION. Shows revisions B, 0, and 1.

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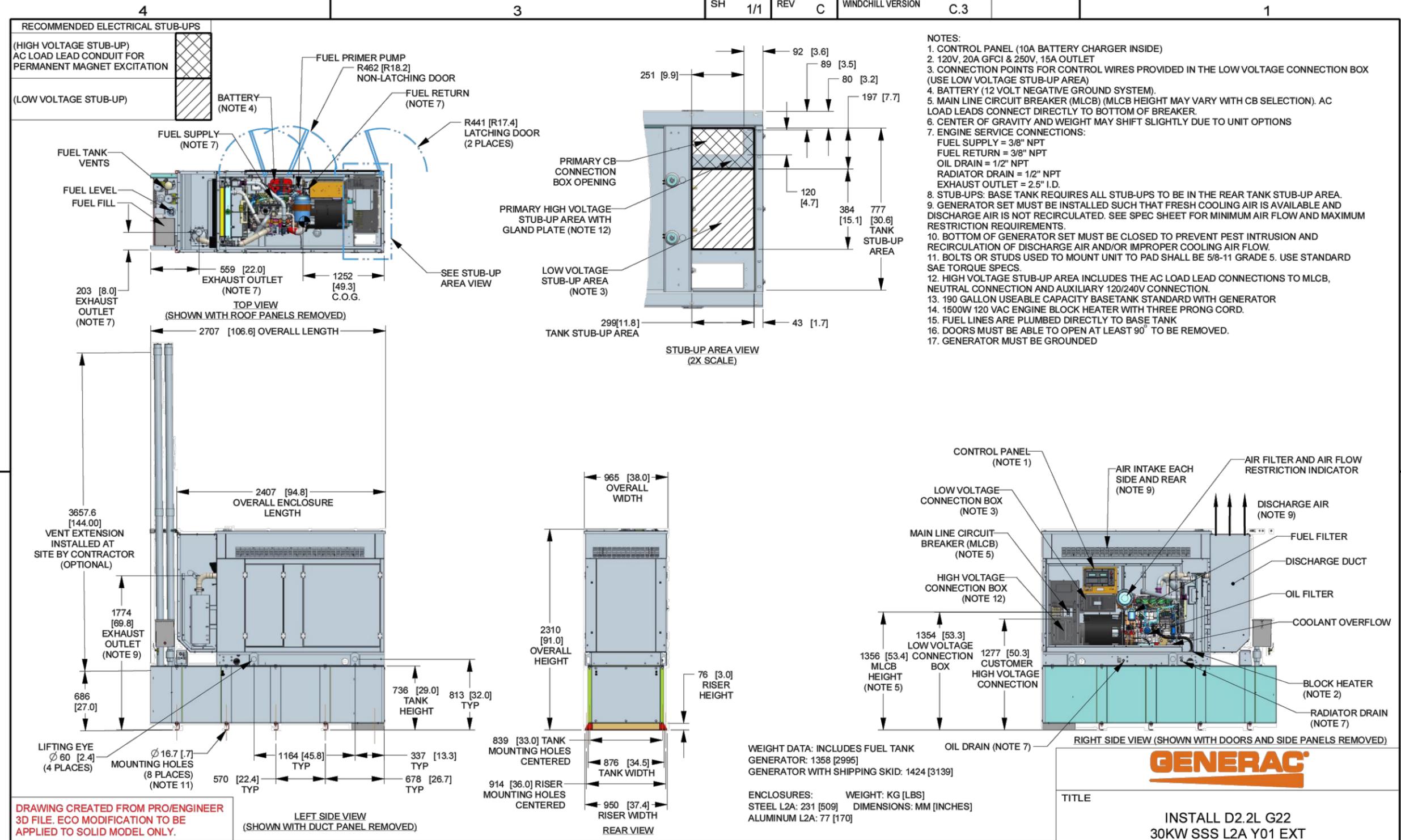
AT&T SITE # IAL03662
AT&T SITE NAME: SANDY BEACH RELO
FA # 16282458
SITE ADDRESS: 3127 SANDY BEACH ROAD NE SOLON, IA 52333

SHEET TITLE
GENERATOR SPECS.

SHEET NUMBER
AT-C-5

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SH	1/1	REV	C	WINDCHILL VERSION	C.3
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INSTALLATION DRAWING



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04994

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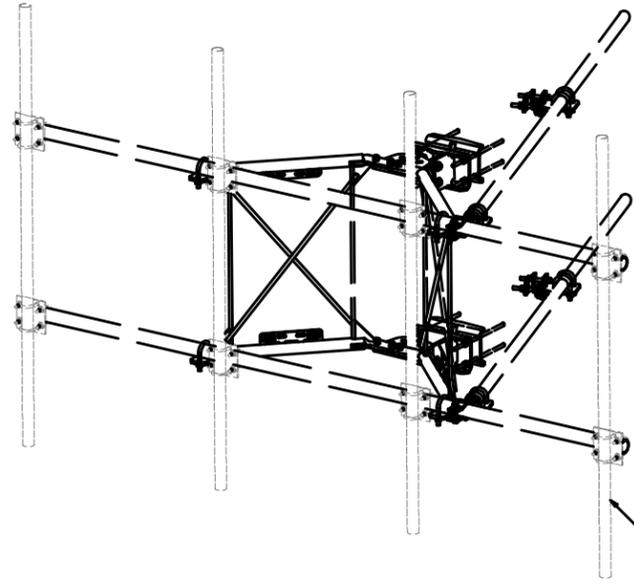
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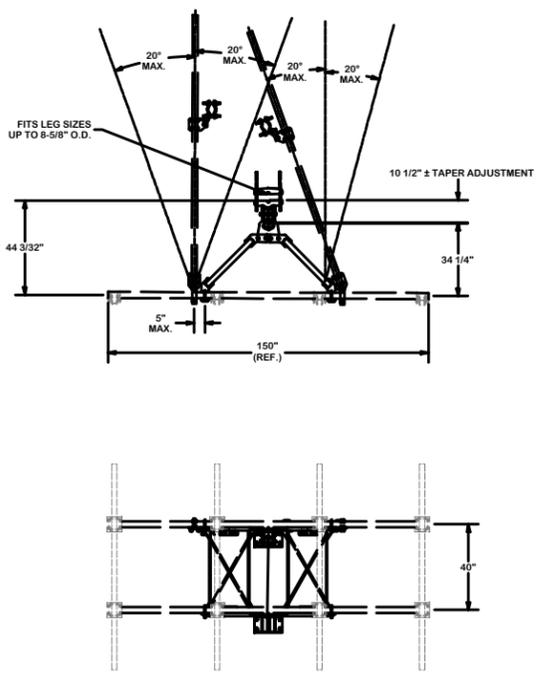
SHEET NUMBER
AT-C-5.1

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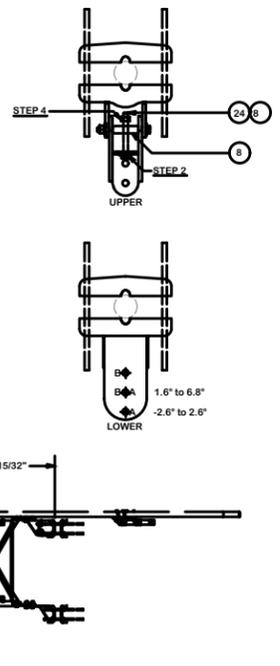
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SFTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING TIE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
11	8	DCP	1/2" THICK, 5-3/4" CENTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
12	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
13	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
14	4	A34212	3/4" X 2-1/2" UNG HEX BOLT (A325)	2 1/2 in	0.48	1.92
15	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
16	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
17	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
18	8	G58R-18	5/8" X 18" THREADED ROD (HDG.)		1.57	12.54
19	4	G58R-12	5/8" X 12" THREADED ROD (HDG.)		1.05	4.18
20	4	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.70	2.79
21	4	X-UBS300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
22	8	X-UBS258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
23	2	G5807	5/8" X 7" HDG HEX BOLT GRS FULL THREAD	7 in	0.70	1.41
24	1	G5806	5/8" X 6" HDG HEX BOLT GRS FULL THREAD	6 in	0.62	0.62
25	8	G5804	5/8" X 4" HDG HEX BOLT GRS		0.44	3.55
26	4	G5802	5/8" X 2" HDG HEX BOLT GRS		0.27	1.08
27	8	A582114	5/8" X 2-1/4" HDG A525 HEX BOLT	2 1/4 in	0.31	2.50
28	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
29	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
30	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
				TOTAL WT. #		661.04

MOUNT PIPES AND HARDWARE NOT INCLUDED (ORDER SEPARATELY)



ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 \angle HOLE A = -2.6° TO 2.6°
 \angle HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.



TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWS, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

DESCRIPTION: 12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS (NO MOUNT PIPES OR HARDWARE)

Engineering Support Team: 1-888-753-7446
 Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

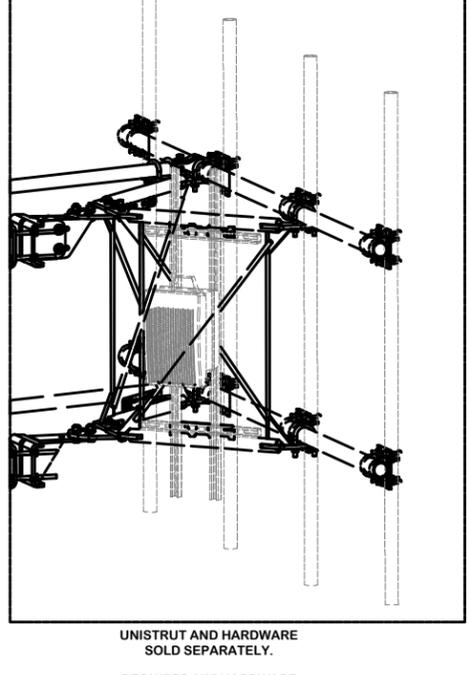
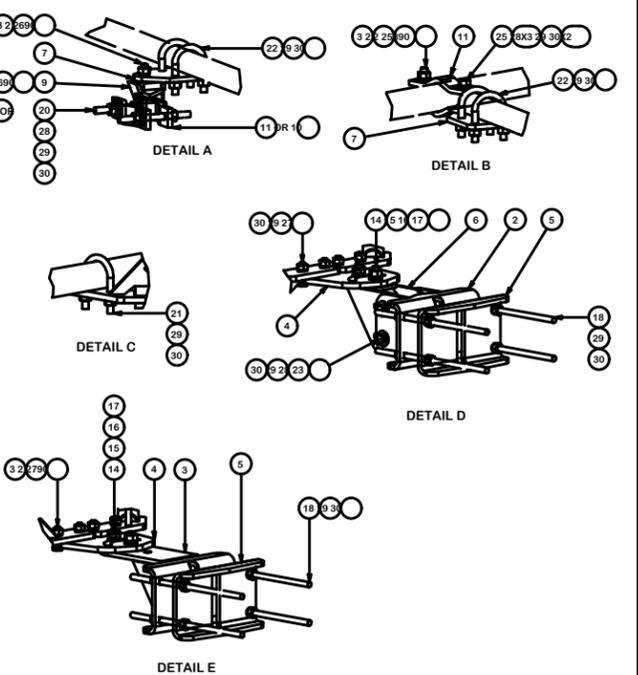
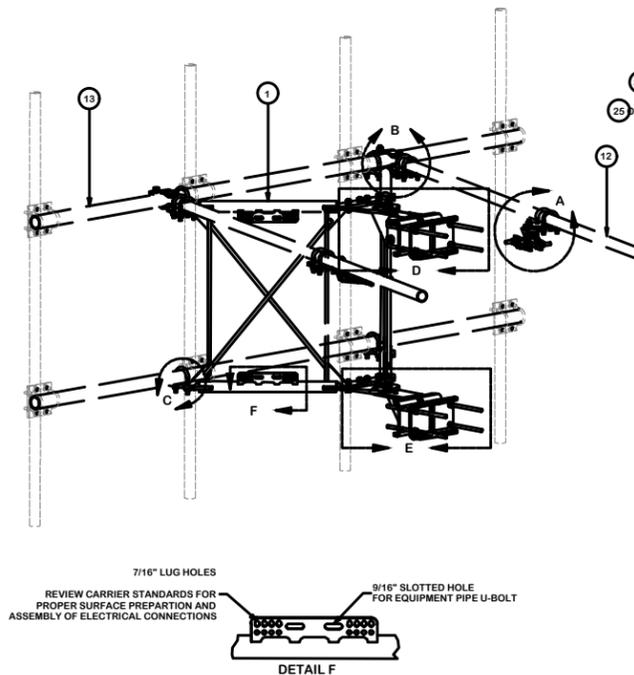
CPD NO. 87 02
 DRAWN BY: CMFL 5/26/2022
 CHECKED BY: CUSTOMER
 ENG. APPROVAL: BMC
 PART NO. VFA12-HD-NPNH
 DWG. NO. VFA12-HD-NPNH

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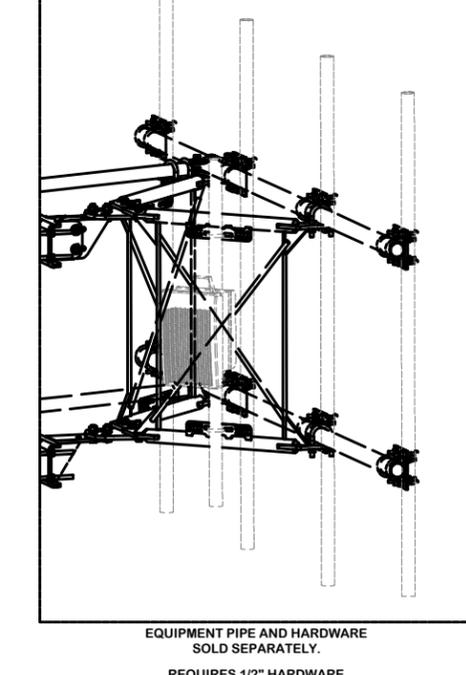
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 Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO. 87 02
 DRAWN BY: CMFL 5/26/2022
 CHECKED BY: CUSTOMER
 ENG. APPROVAL: BMC
 PART NO. VFA12-HD-NPNH
 DWG. NO. VFA12-HD-NPNH



UNISTRUT AND HARDWARE SOLD SEPARATELY. REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARE SOLD SEPARATELY. REQUIRES 1/2" HARDWARE AND 2-3/8" TO 4-1/2" O.D. PIPE

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 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
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 ALL OTHER ASSEMBLY ($\pm 0.060"$)

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 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

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SITEPRO 1 VFA12-HD-NPNH V-FRAME DETAILS

SCALE: N.T.S. 1



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY: DS
 CHECKED BY: MC

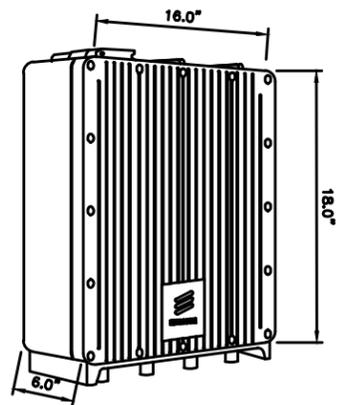
REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA
 DATE: 03/13/26
 JOHN M. BANKS
 04994
 IOWA
 EXP. DATE: 08/30/2028

AT&T SITE # IAL03662
 AT&T SITE NAME: SANDY BEACH RELO
 FA # 16282458
 SITE ADDRESS: 3127 SANDY BEACH ROAD NE SOLON, IA 52333

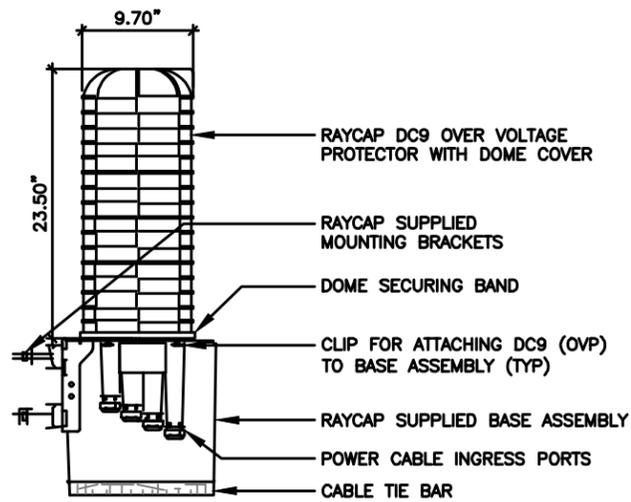
SHEET TITLE
 CONSTRUCTION DETAILS

SHEET NUMBER
 AT-C-6.1



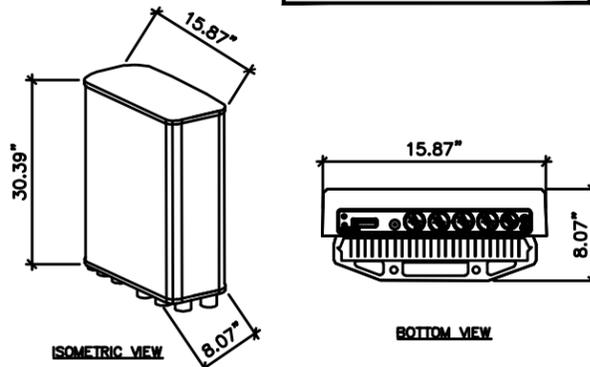
MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4494 B14/B29
 WEIGHT: 57.32 LBS
 CONNECTOR TYPE: 4.3-10 FEMALE

12 RRUS SPECIFICATIONS
 N.T.S.



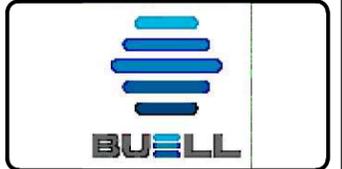
9 DC-9-48-60-24-8C-EV SURGE SUPPRESSOR
 N.T.S.

MANUFACTURER: ERICSSON
 MODEL NO.: AIR 6419 B77D
 WEIGHT: 81.6 LBS
 BAND: MULTI-BAND
 POLARIZATION: DUAL
 FREQUENCIES: 3700-3980MHz



6 AIR ANTENNA DETAIL
 CONMAT N/A / ITEM NUMBER N/A

3 NOT USED
 N.T.S.



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 FAX: 847.277.0080
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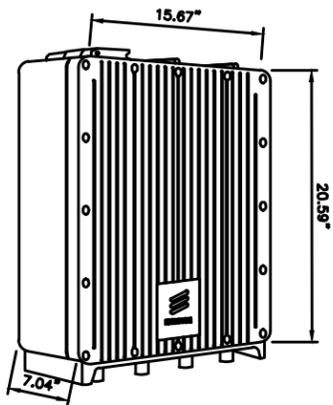


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 AT&T SITE NAME:
 SANDY BEACH RELO
 FA # 16282458
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
 RRH, ANTENNA &
 EQUIPMENT SPECS.

SHEET NUMBER
AT-C-7

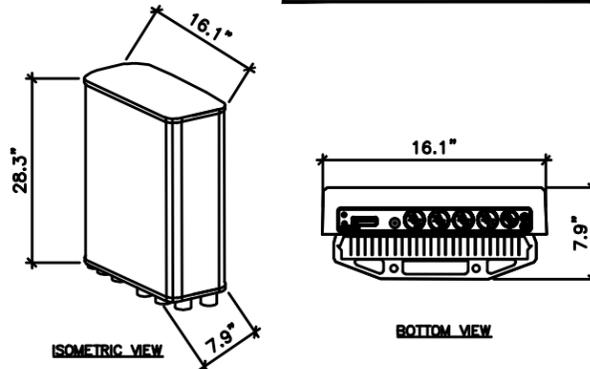


MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4890 B25/B66
 WEIGHT: 67.24 LBS
 CONNECTOR TYPE: 4.3-10 FEMALE

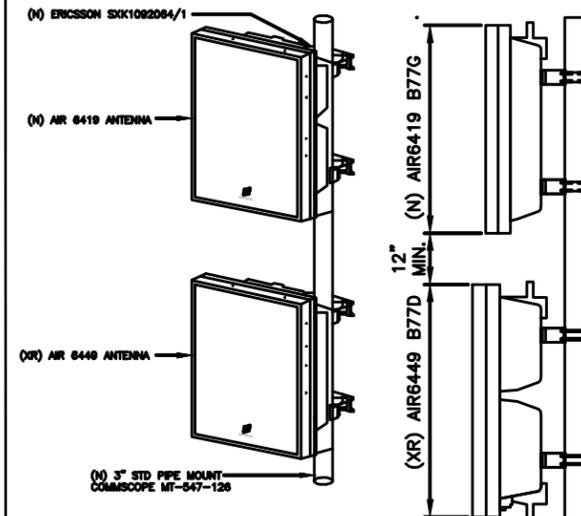
11 RRUS SPECIFICATIONS
 N.T.S.

8 NOT USED
 N.T.S.

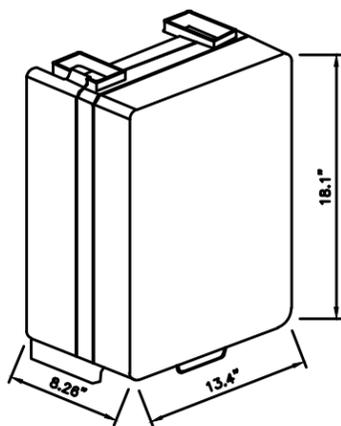
MANUFACTURER: ERICSSON
 MODEL NO.: AIR 6419 B77G
 WEIGHT: 66.1 LBS
 BAND: MULTI-BAND
 POLARIZATION: DUAL
 FREQUENCIES: 3700-3980MHz



5 AIR ANTENNA DETAIL
 CONMAT N/A / ITEM NUMBER N/A



2 AIR ANTENNA STACKED MOUNTING DETAIL
 CONMAT N/A / ITEM NUMBER N/A

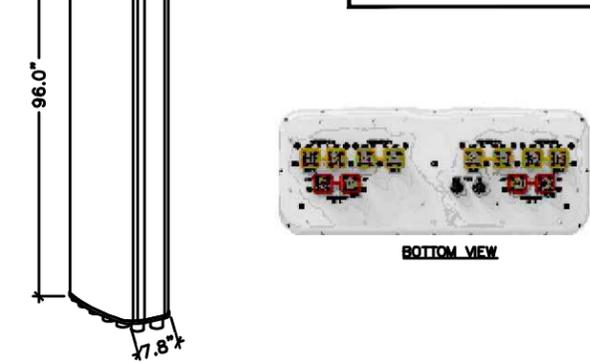


MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4472 B12A
 WEIGHT:
 CONNECTOR TYPE:

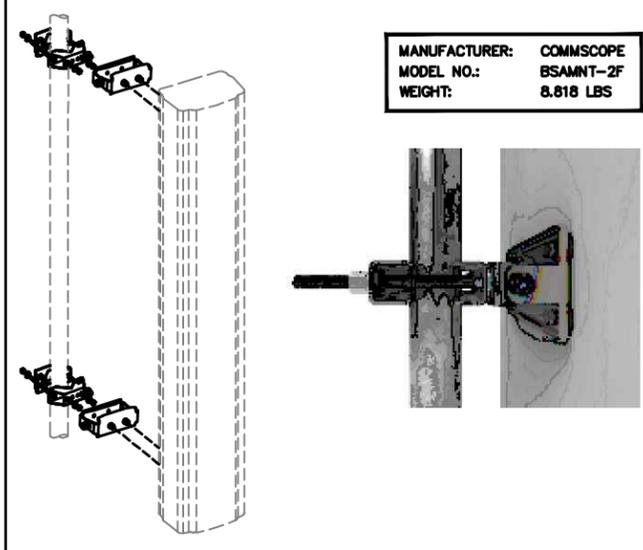
10 RRUS SPECIFICATIONS
 N.T.S.

7 NOT USED
 N.T.S.

MANUFACTURER: COMMSCOPE
 MODEL NO.: NNH4-65C-R6-V4
 WEIGHT: 91.712 LBS
 BAND: MULTI-BAND
 POLARIZATION: DUAL
 FREQUENCIES: 698-896MHz
 1695-2360MHz
 CONNECTOR: 12 X 4.3-10 DIN-F



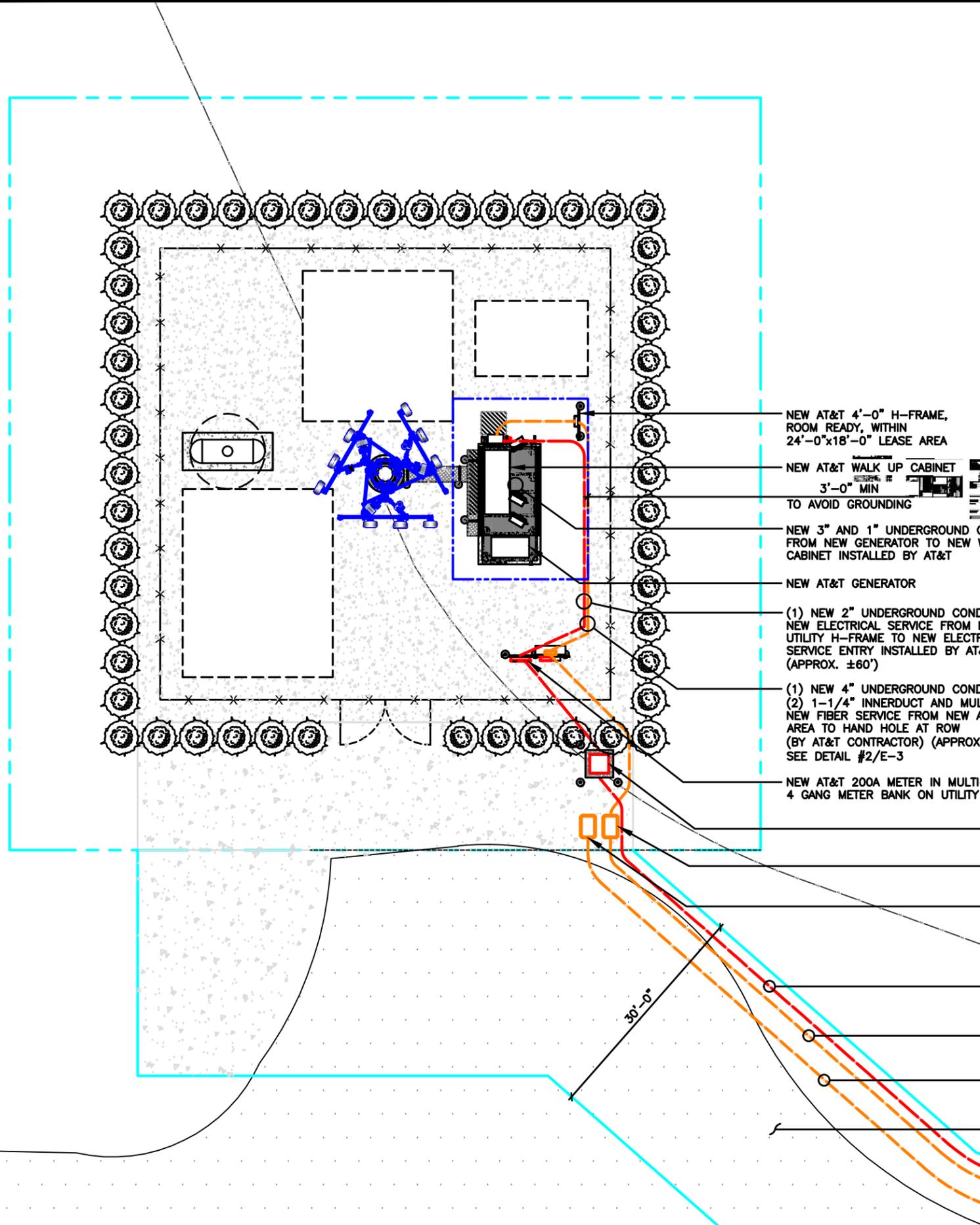
4 PANEL ANTENNA DETAIL
 N.T.S.



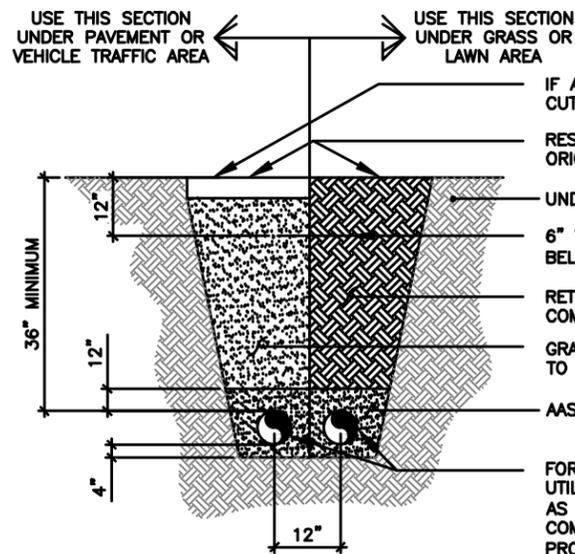
1 PANEL ANTENNA MOUNTING DETAIL
 N.T.S.

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- NEW AT&T 4'-0" H-FRAME, ROOM READY, WITHIN 24'-0"x18'-0" LEASE AREA
- NEW AT&T WALK UP CABINET 3'-0" MIN TO AVOID GROUNDING
- NEW 3" AND 1" UNDERGROUND CONDUITS FROM NEW GENERATOR TO NEW WALK IN CABINET INSTALLED BY AT&T
- NEW AT&T GENERATOR
- (1) NEW 2" UNDERGROUND CONDUIT FOR NEW ELECTRICAL SERVICE FROM NEW UTILITY H-FRAME TO NEW ELECTRICAL SERVICE ENTRY INSTALLED BY AT&T (APPROX. ±60')
- (1) NEW 4" UNDERGROUND CONDUITS WITH (2) 1-1/4" INNERDUCT AND MULE TAPE FOR NEW FIBER SERVICE FROM NEW AT&T LEASE AREA TO HAND HOLE AT ROW (BY AT&T CONTRACTOR) (APPROX. ±60') SEE DETAIL #2/E-3
- NEW AT&T 200A METER IN MULTI-TENANT 4 GANG METER BANK ON UTILITY H-FRAME



TYPICAL TRENCH DETAIL

SCALE: **2**
N.T.S.

NOTE:
1. EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES.

HANDHOLES SHALL BE:
24x36x24" POLYMER CONCRETE WITH TIER 15/22 RATED LIDS LABELED AS "TELECOMMUNICATIONS".
BOTTOM OF HANDHOLE SHALL BE LINED WITH 2" OF CLEAN #57 GRAVEL. CONDUIT SHALL ENTER AT A 45° ANGLE AND BE 3" FROM THE TOP OF GRAVEL. (PROVIDE AT LEAST 18" CLEARANCE TO BOTTOM OF LID)
(1) HANDHOLE SHALL BE STENCILED "TILLMAN" WITH 3" LETTERS
(1) HANDHOLE SHALL BE STENCILED "FUTURE" WITH 3" LETTERS

NOTE:
FIBER HANDHOLE REQUIRED EVERY 500' MAXIMUM. POWER HANDHOLE REQUIRED EVERY 300' MAXIMUM. GENERAL CONTRACTOR SHALL VERIFY AND CONFIRM ADDITIONAL REQUIREMENTS WITH LOCAL JURISDICTION PRIOR TO INSTALLATION.

NOTE:
EXACT SOURCE AND ROUTING OF POWER AND FIBER TO BE DETERMINED UPON COORDINATION WITH POWER AND FIBER COMPANIES. GENERAL CONTRACTOR TO CONFIRM & OBTAIN COPY OF THE UTILITY COORDINATION WITH TILLMAN CONSTRUCTION MANAGER PRIOR TO INSTALLATION

- NEW UTILITY TRANSFORMER BY UTILITY COMPANY
- PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR TILLMAN USE
- PROPOSED TRAFFIC RATED FIBER VAULT AT COMPOUND FOR FUTURE USE

- (2) EXISTING 4" PVC UNDERGROUND CONDUITS FOR PRIMARY SITE POWER
- NEW UNDERGROUND FIBER CONDUIT FROM NEW AT&T LEASE AREA H-FRAME TO ROW
- NEW UNDERGROUND FIBER CONDUIT FROM TILLMAN HANDHOLE TO ROW
- 30'-0" WIDE ACCESS/FIBER/UTILITY EASEMENT

LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING PROPERTY LINE



SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)



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TELEPHONE: 847-212-8354

DRAWN BY: **DS**
CHECKED BY: **MC**

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DATE: 03/13/26



AT&T SITE # IAL03662
AT&T SITE NAME: SANDY BEACH RELO
FA # 16282458
SITE ADDRESS: 3127 SANDY BEACH ROAD NE SOLON, IA 52333

SHEET TITLE
ENLARGED UTILITY PLAN

SHEET NUMBER
AT-E-1

ENLARGED UTILITY PLAN



- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFFA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:

- RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
 - UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
 - CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
 - COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
 - VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
 - RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

METER POSITION 2 - AT&T INTEGRATED LOAD CENTER																							
LOAD			LOAD PER PHASE (VA)										LOAD										
DESCRIPTION	QTY.	UNIT V.A.	PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	PHASE		UNIT V.A.	QTY.	DESCRIPTION	
			A	B														A	B				
RECTIFIER #1	1	1400	1400		BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #5	2
	1	1400		1400	RED			8	(10)	40		40	(10)	8		X	RED		1400	1400	1		4
RECTIFIER #2	1	1400	1400		BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #6	6
	1	1400		1400	RED			8	(10)	40		40	(10)	8		X	RED		1400	1400	1		8
RECTIFIER #3	1	1400	1400		BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #7	10
	1	1400		1400	RED			8	(10)	40		40	(10)	8		X	RED		1400	1400	1		12
RECTIFIER #4	1	1400	1400		BLK	X		8	(10)	40		40	(10)	8		X	BLK						14
	1	1400		1400	RED			8	(10)	40		40	(10)	8		X	RED						16
					BLK												BLK						18
					RED	X		12	12	20							RED						20
GFCI RECEPTACLES	1	360	360		BLK	X		12	(12)	20							BLK						22
OPTIONAL FIBER BOX RECEPTACLE	1	180	180		RED	X		12	12	20							RED						24
BATTERY CHARGER	1	240	240		BLK	X		12	12	20							BLK						26
SPARE					RED	X		12	12	20							RED						28
SPARE					BLK	X		12	12	20							BLK						30
SUBTOTAL CONTINUOUS			5600	5600											4200	4200	SUBTOTAL CONTINUOUS		TOTAL AMPS CONTINUOUS x 1.25	24500			
SUBTOTAL NON-CONTINUOUS			600	180											-	-	SUBTOTAL NON-CONTINUOUS		TOTAL AMPS NON-CONTINUOUS	780			
SUBTOTAL SUB-PANEL			-	-											-	-	SUBTOTAL SUB-PANEL						

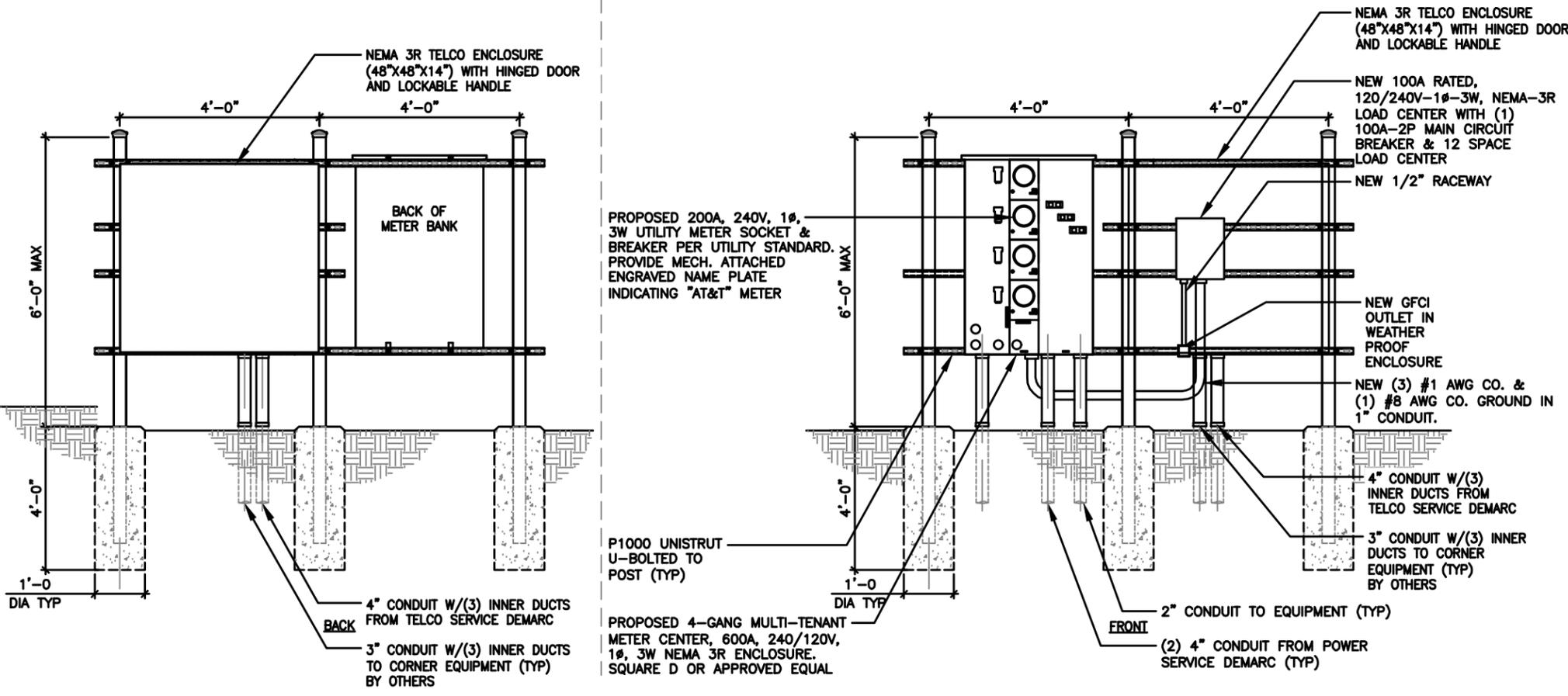
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)

MAIN LUGS: N/A MAIN BREAKER: 200 AMP BRANCH BREAKER TYPE: SIEMENS - BL

VOLTAGE: 120/240 CYCLE: 60 PHASE: 1 WIRES: 3 MAIN COPPER BUS: 200 AMPS NEUTRAL: 200 AMPS

AT&T P - B PANEL SCHEDULE

SCALE N.T.S. **2**

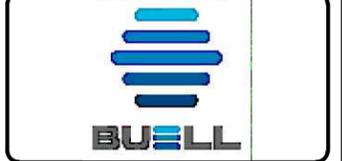


UTILITY FRAME DETAIL

SCALE N.T.S. **1**

ELECTRICAL NOTES

SCALE N.T.S. **4**



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1	03/13/26	PERMIT/CONSTRUCTION

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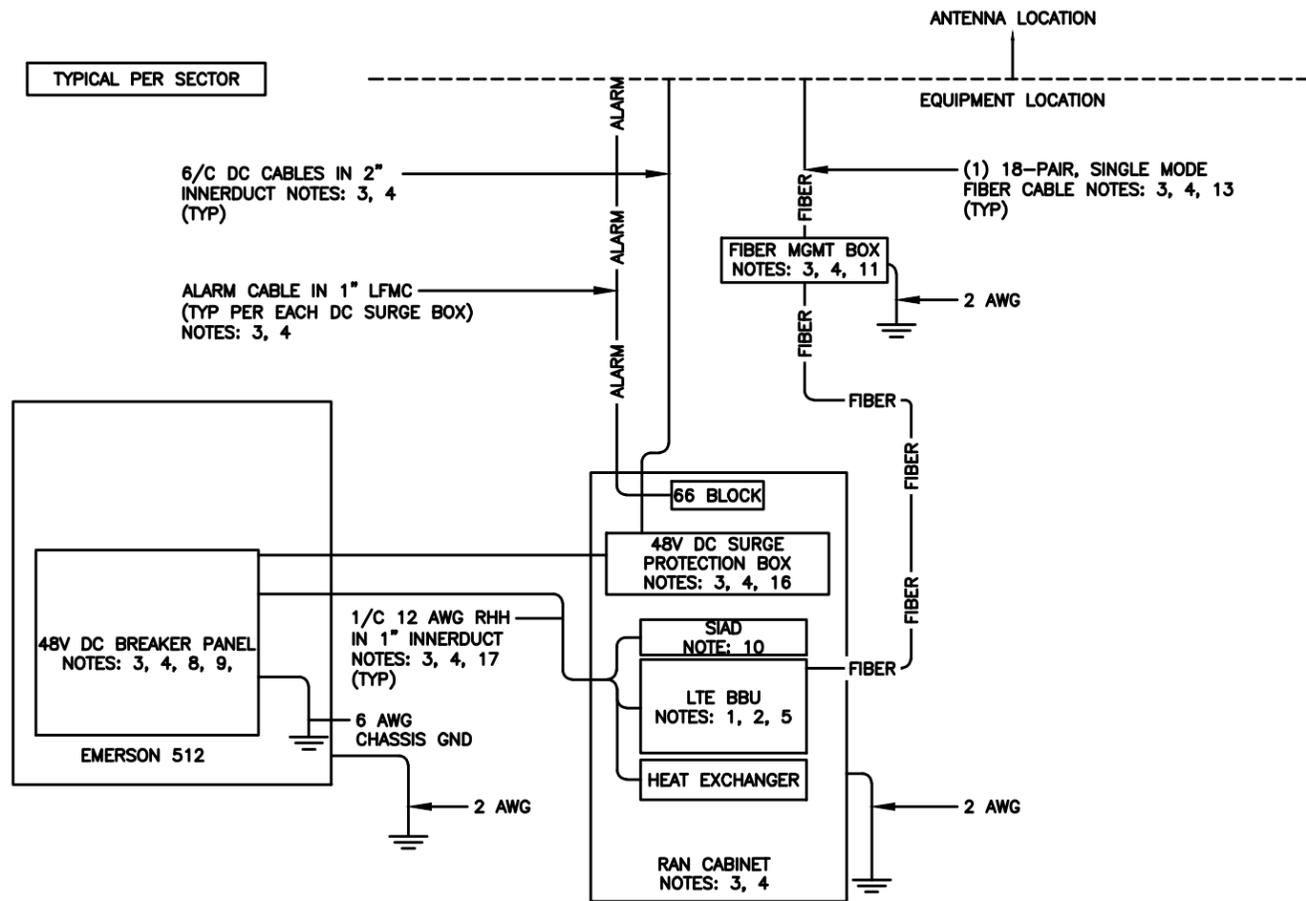
AT&T SITE # IAL03662
 AT&T SITE NAME:
 SANDY BEACH RELO
 FA # 16282458
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
**ELECTRICAL SCHD.,
 DIA & NOTES**

SHEET NUMBER
AT-E-2

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NOTES:

1. FURNISHED BY OEM/AT&T.
2. INSTALLED BY OEM OR AS SCOPED BY MARKET.
3. FURNISHED BY OTHERS
4. INSTALLED BY OTHERS
5. FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET.
6. OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
7. DELETED.
8. BREAKERS SPECIFIED SOLD SEPERATELY.
9. BREAKERS TO BE TAGGED AND LOCKED OUT.
10. SIAD IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT OR AS SCOPED BY MARKET. INSTALL 10 AWG CHASSIS GROUND, PROVIDE (2) 10A BREAKERS FROM A 24V DC POWER SOURCE OR (2) 5A BREAKERS FROM A 48V DC POWER SOURCE AND CONNECT USING MFR POWER CABLE WITH SPECIAL CONNECTOR.
11. FIBER MANAGEMENT BOX IS J-SOURCE MODEL 12126FM4SEC.
12. LEC TO FURNISH AND INSTALL NETWORK INTERFACE DEVICE.
13. LEAVE COILED AND PROTECTED UNTIL TERMINATED.
14. SEE DETAIL 1408 FOR DC POWER CABLE SIZES.
15. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC9-48-60-24-8C-EV.
16. POWER DISTRIBUTION W/DC SURGE PROTECTION BOX SHALL BE RAYCAP MODEL DC9-48-60-24-8C-EV.
17. SINGLE-CONDUCTOR DC POWER CABLES SHALL BE TELCOFLEX OR KS24194, COPPER, UL LISTED RHH NON-HALOGEN, LOW SMOKE WITH BRAIDED COVER, TYPE TC (1/0 AND LARGER). UNLESS OTHERWISE NOTED, STRANDING SHALL BE CLASS B (TYPE III) FOR CABLES SIZES 14, 12 & 10 AWG AND CLASS 1 (TYPE IV) FOR SIZES 8 AWG AND LARGER. CABLES SHALL BE COLOR CODED RED FOR +24V, BLUE FOR -48V AND GRAY FOR 24V AND 48V RETURN CONDUCTORS. MULTI-CONDUCTOR DC POWER CABLES SHALL COPPER, CLASS B STRANDED WITH FLAME RETARDANT PVC JACKET, TYPE TC, UL LISTED FOR 90°C DRY/ 75°C WET INSTALLATION.
18. 10A FUSE FOR HEAT EXCHANGER FURNISHED AND INSTALLED BY OTHERS.
19. DELETED
20. GROUNDING WIRES SHALL BE COPPER, GREEN THHN/THWN UL LISTED FOR 90°C DRY/75°C WET INSTALLATION. MINIMUM SIZE IS 6 AWG UNLESS NOTED OTHERWISE.
21. RET CONTROL FROM THE RRR IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
22. DELETED.
23. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-0-1E.
24. FIBER MANAGEMENT BOX IS COMMSCOPE MODEL FB 18188.
25. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC12-48-60-0-25E.



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

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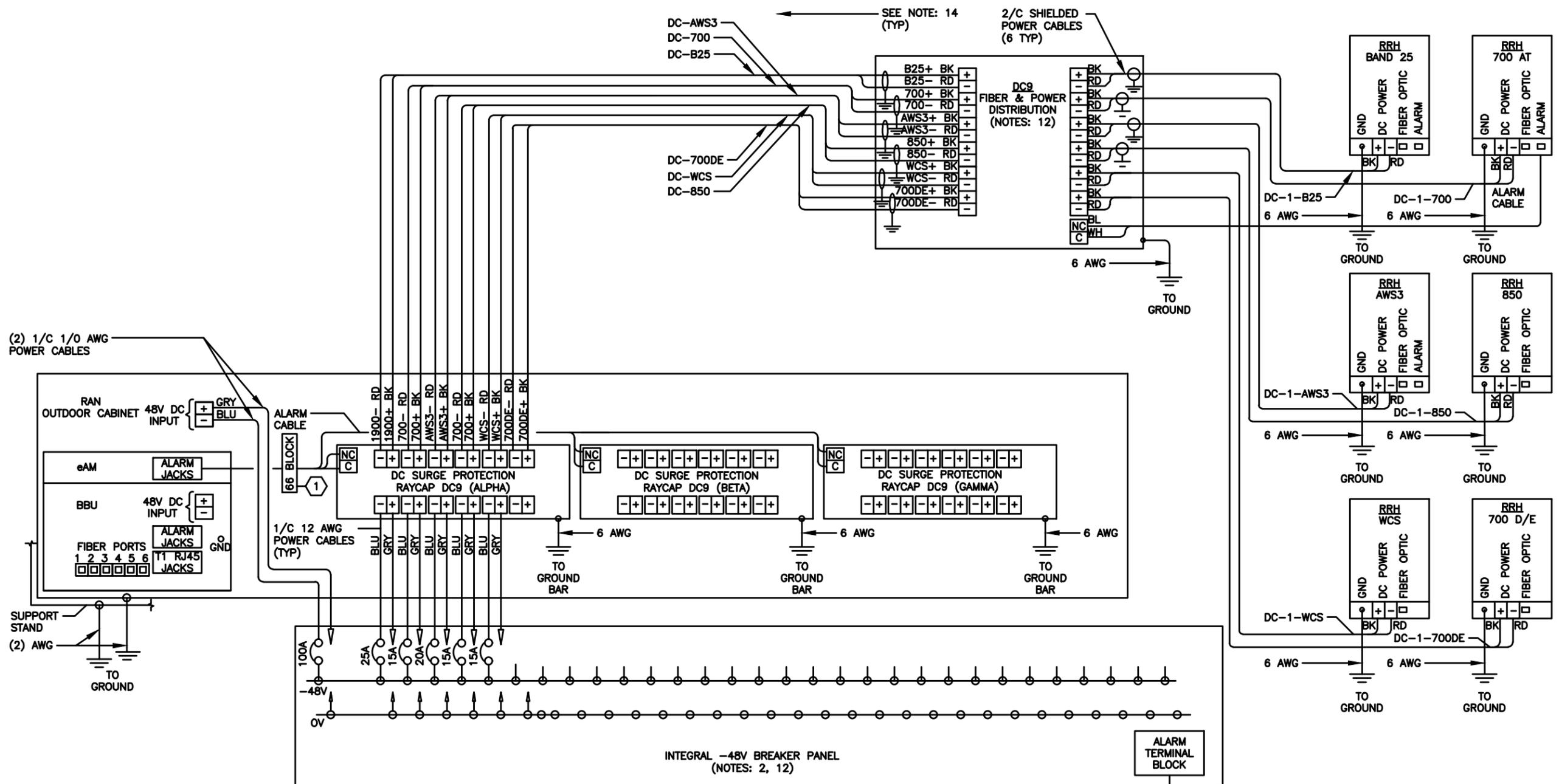
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 FA # 16282458
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 SOLON, IA 52333

SHEET TITLE
 DC/FIBER SYSTEM
 DIAGRAM

SHEET NUMBER
AT-E-3

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- NOTES**
1. LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. 'A-AWS+'.
 2. INSTALL ON IN AUXILIARY EQUIPMENT CABINET.
 3. CABLE TERMINALS FOR +24V INPUT FEED A, FEED B AND REFERENCE GROUND SHALL BE 2-HOLE: 3/8" ON 1" CENTER.
 4. INSTALL CABLE TERMINALS FOR FEED A AND FEED B RETURN BACK-TO-BACK ON OPPOSITE SIDES OF PAD USING 1-HOLE 3/8" TERMINALS.
 5. CABLE TERMINALS FOR CHASSIS GROUND SHALL BE 2-HOLE, 1/4" ON 5/8" CENTER.
 6. WHEN DISTRIBUTION BOX IS NOT USED, INSTALL 3 RUNS OF (2) 2/C CABLES IN CONDUIT, 1 EACH FROM DC SURGE SHELF TO DC9s.
 7. A JUNCTION BOX IS REQUIRED WHEN FIBER OPTIC CABLES ARE INSTALLED IN CONDUIT AS SCOPED BY MARKET.
 8. CONVERTER REFERENCE GROUND IS NOT REQUIRED WHEN CONVERTER AND 24V DC POWER PLANT ARE ON THE SAME RACK OR ENCLOSURE.
 9. THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE AND DRAIN WIRE WHEN A SHIELDED CABLE IS USED, SHALL BE CONNECTED TO THE EQUIPMENT CABINET GROUND BAR.
 10. SEE ALARM BLOCK ASSIGNMENT DETAIL FOR ALARM CABLE CONNECTIONS.
 11. PROVIDE A JUNCTION BOX, AS SCOPED BY MARKET, TO COIL EXCESS DC POWER AND OPTICAL FIBER CABLES (FIBER CABLES NOT SHOWN FOR CLARITY)
 12. NOTED EQUIPMENT MAY BE COMMON TO LTE AND UMTS SYSTEMS.
 13. CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRH.
 14. WHEN AN RRH IS USED INSTEAD OF AN AWS RRH CABLE, LABELS SHOULD REFLECT CORRECT FREQUENCY BAND.

TYPICAL PER SECTOR



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

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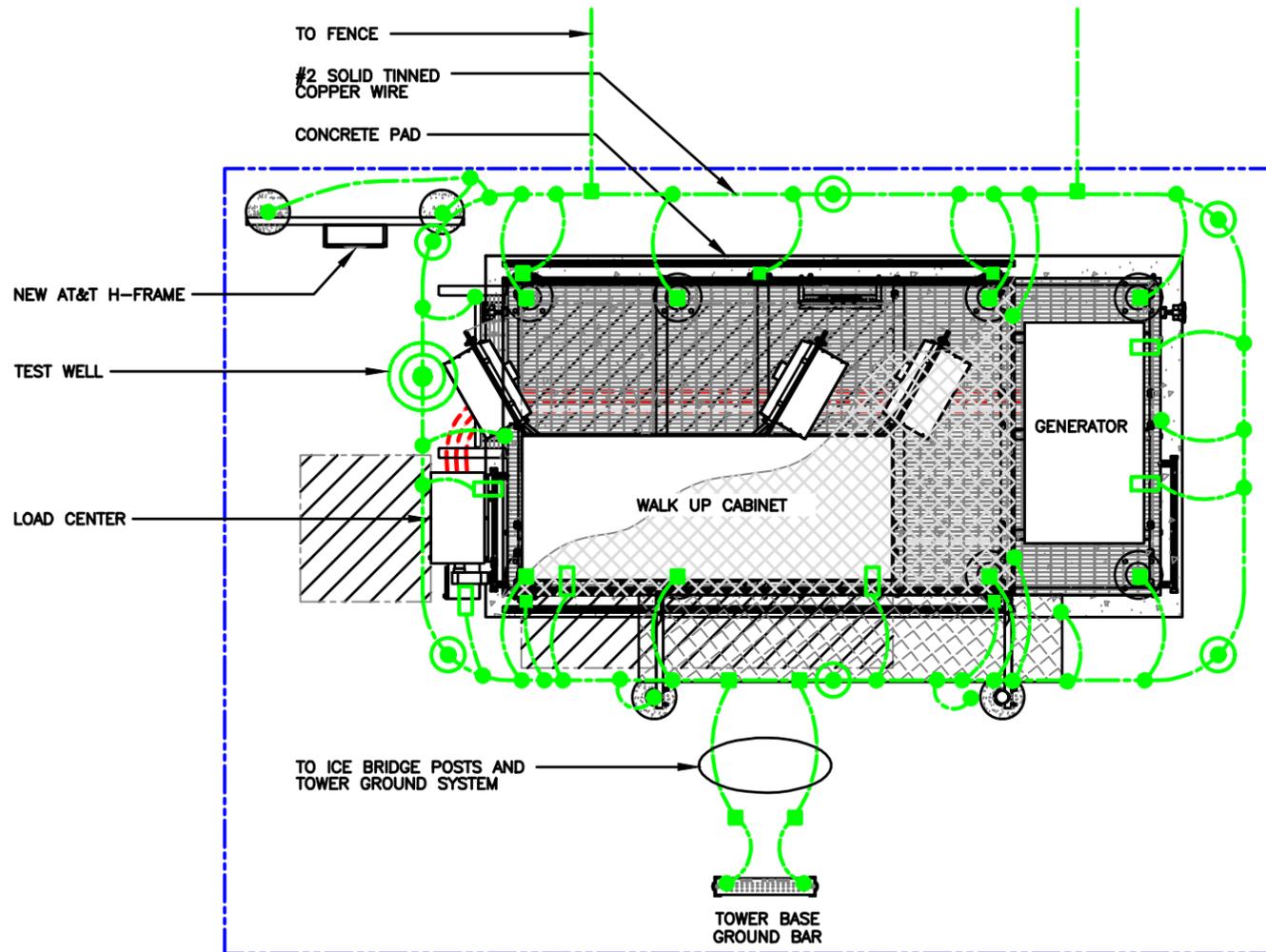
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 SOLON, IA 52333

SHEET TITLE
 DC WIRING
 DIAGRAM

SHEET NUMBER
AT-E-4

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GROUNDING LEGEND	
	MECHANICAL CONNECTION
	EXOTHERMIC WELD CONNECTION
	COMPRESSION FITTING CONNECTION
	5/8"x10' COPPER-CLAD STEEL GROUND ROD
	5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
	PROPOSED GROUND WIRING
	EXISTING GROUND WIRING
	TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
CGB	COLLECTOR GROUND BAR
MGB	MAIN GROUND BAR



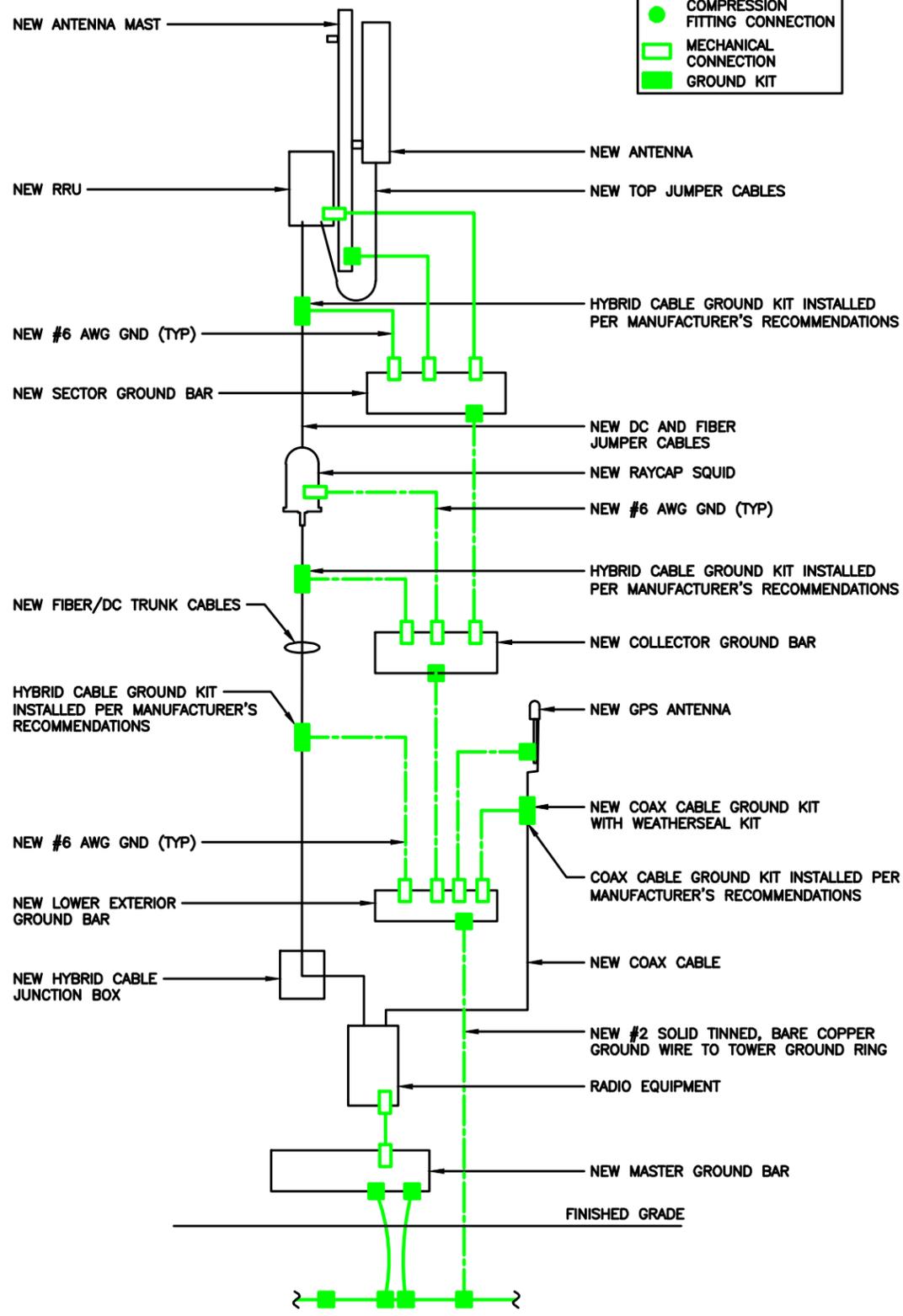
Know what's below.
Call before you dig.

GROUNDING PLAN

SCALE N.T.S. **2**

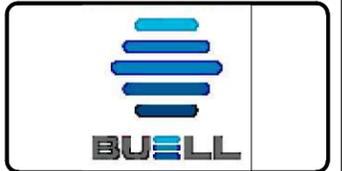
NOTE:
GROUND LEAD INSIDE RUBBER GROMMET TO BE ATTACHED WITH X-CROSS ZIP TIES TO BRACKET. DO NOT USE SNAP-IN HANGERS AROUND GROUNDS.

LEGEND	
	EXOTHERMIC WELD CONNECTION
	COMPRESSION FITTING CONNECTION
	MECHANICAL CONNECTION
	GROUND KIT



RISER DIAGRAM

SCALE N.T.S. **1**



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

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 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

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 EXP. DATE: 08/30/2028

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 SANDY BEACH RELO
 FA # 16282458
 SITE ADDRESS:
 3127 SANDY BEACH ROAD NE
 SOLON, IA 52333

SHEET TITLE
GROUNDING PLAN & RISER DIAGRAM

SHEET NUMBER
AT-G-1

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE AT&T WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 6" ABOVE AND BELOW GRADE/ GRAVEL AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

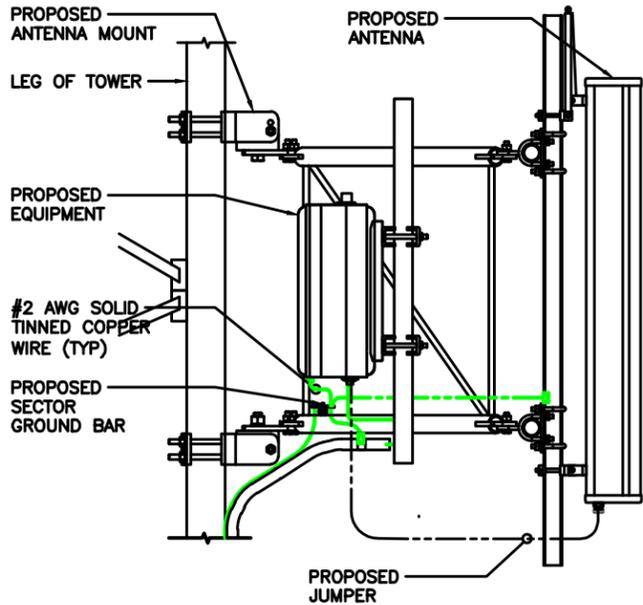
CABLE COLOR CODING NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

CABLE MARKING TAGS:

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATING THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.



ANTENNA & CABLE GROUNDING

SCALE N.T.S. **3**

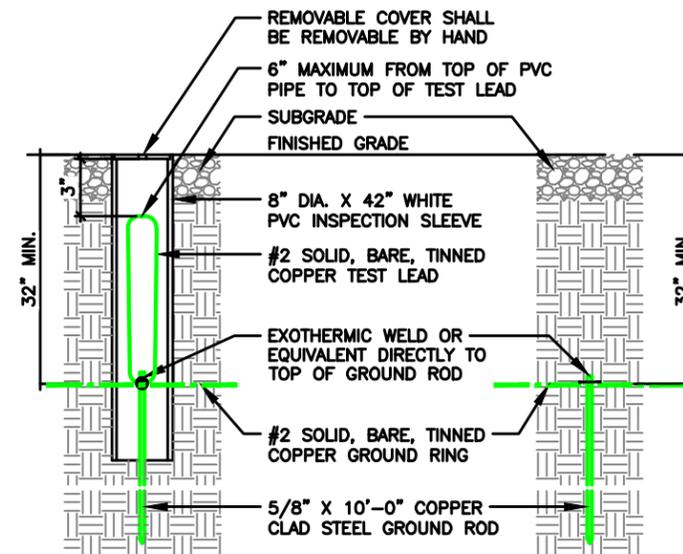
NOTE: SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE

NOTE: GROUND RODS MAY BE COPPER CLAD STEEL OR SOLID COPPER

NOTE: GROUND RODS SHALL HAVE A RECOMMENDED SPACING TWICE THE LENGTH OF THE ROD

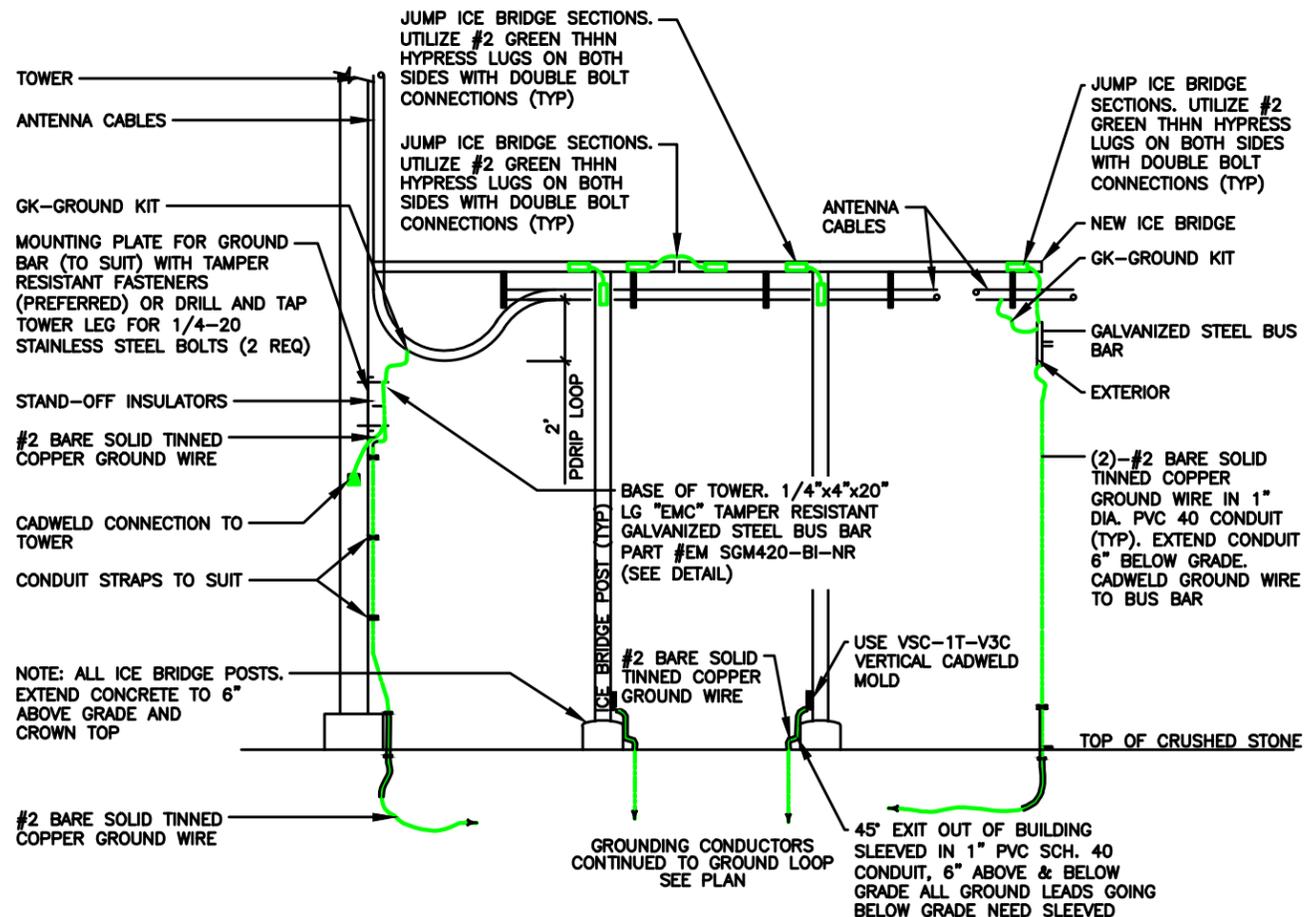
NOTE: A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS W/HIGHLY ACIDIC SOIL

NOTE: GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER



GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE N.T.S. **2**



COAXIAL GROUNDING AT ICE BRIDGE

SCALE N.T.S. **1**

GROUNDING NOTES

SCALE N.T.S. **5**

CABLE COLOR CODING NOTES

SCALE N.T.S. **4**



WESTCHESTER SERVICES LLC
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847.277.0070
 FAX: 847.277.0080
 AE@WESTCHESTERSERVICES.COM

JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-212-8354

DRAWN BY:	DS	
CHECKED BY:	MC	
REV	DATE	DESCRIPTION
B	01/20/26	PRELIMINARY CD
0	02/09/26	PERMIT/CONSTRUCTION
1	03/13/26	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA
 DATE 03/13/26

AT&T SITE # IAL03662
AT&T SITE NAME:
SANDY BEACH RELO
FA # 16282458
SITE ADDRESS:
3127 SANDY BEACH ROAD NE
OLON, IA 52333

SHEET TITLE
GROUNDING
DETAILS & NOTES

SHEET NUMBER
AT-G-2

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