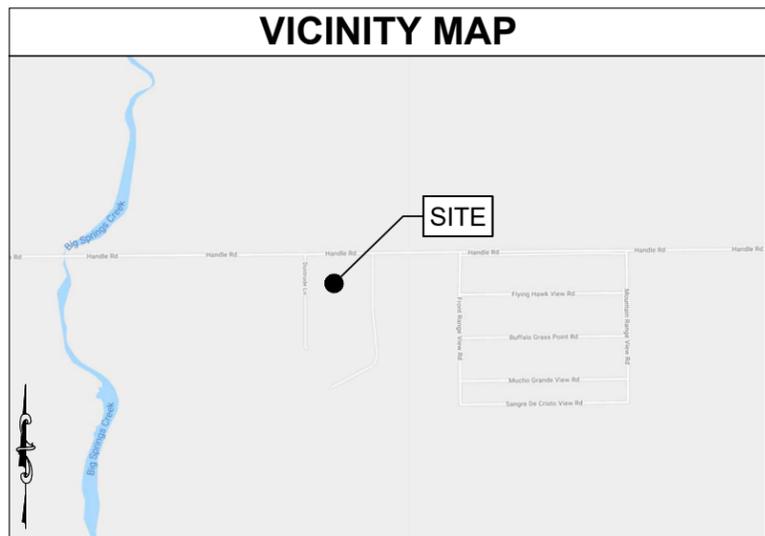
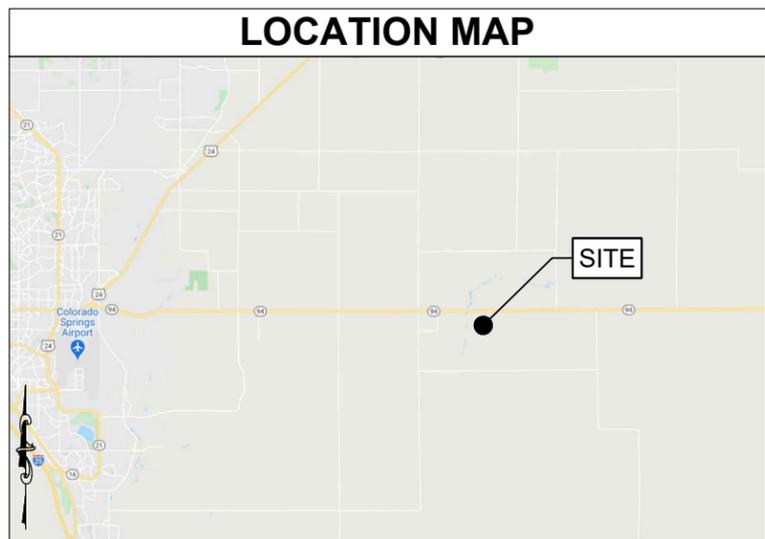


Drawing name: C:\Users\mmerritt\AppData\Local\Temp\AcPublish_5876\Ellicott, CO - PCD_Rev. #_###_###_2020.dwg T-1 Jan 06, 2022 4:15pm by: mmerritt



PREPARED FOR:



PROJECT DESCRIPTION:

RAW LAND NSB

SITE NAME:

**ELLICOTT, CO
WISP TOWER**

LEGAL DESCRIPTION PARENT PARCEL (PER RECEPTION NO. 2161259450)

A TRACT OF LAND BEING A PORTION OF THE NORTH HALF OF SECTION 22, TOWNSHIP 14 SOUTH, RANGE 62 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 22, THENCE NORTH 89 DEGREES 32 MINUTES 40 SECONDS EAST, COINCIDENT WITH THE NORTH LINE OF SAID SECTION 22, A DISTANCE OF 1090.00 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS WEST, DISTANCE OF 1765.00 FEET; THENCE SOUTH 89 DEGREES 32 MINUTES 40 SECONDS WEST, A DISTANCE OF 1090.00 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, COINCIDENT WITH THE WEST LINE OF SAID SECTION 22, DISTANCE OF 1765.00 FEET TO THE POINT OF BEGINNING.



***** CAUTION *****
THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

FOR EMERGENCIES CALL: 911

PROJECT INFORMATION

SITE ADDRESS: 26907 HANDLE RD
CALHAN, CO 80808

LATITUDE: 38° 49' 25.34" (NAD 83)
LONGITUDE: -104° 19' 49.36" (NAD 83)

PARCEL ID: 2400000187

JURISDICTION: EL PASO COUNTY

PROPERTY OWNER: SHELBY MILLER

APPLICANT: KELLIN COMMUNICATIONS
(719) 785-7200

ENGINEER: FORESITE GROUP, LLC
3001 BRIGHTON BLVD.
SUITE 2661
DENVER, CO 80216

POWER: MOUNTAIN VIEW ELECTRIC
ASSOCIATION, INC.

TELCO: TBD

DESIGN DATA:

DESIGN CODE: INTERNATIONAL BUILDING CODE:
2018 EDITION
TIA/EIA TIA-222-H

BASIC WIND SPEED: 107 MPH (3 SECOND GUST)
EXPOSURE CATEGORY: C
STRUCTURAL RISK CATEGORY: II

SHEET INDEX

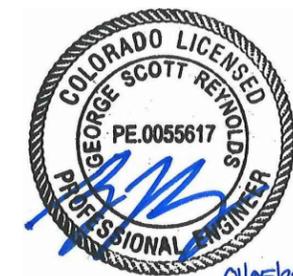
SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	2
T-2	CONSTRUCTION NOTES	2
LS1	SURVEY	0
C-1	OVERALL SITE PLAN	2
C-1.1	APRON & GATE DETAIL	2
C-2	ENLARGED SITE PLAN	2
C-3	GRADING & EROSION CONTROL PLAN	2
C-3.1	GRADING & EROSION CONTROL PLAN	2
C-4	TOWER ELEVATION & ANTENNA ORIENTATION	2
C-5	FOUNDATION & ACCESS DRIVE DETAILS	2
C-6	FENCE DETAILS	2
E-1	ELECTRICAL NOTES	2
E-2	SITE SERVICE ROUTING & COMPOUND GROUNDING PLAN	2
E-3	GROUNDING & CONDUIT DETAILS	2
E-4	GROUNDING DETAILS	2
E-5	GROUNDING DETAILS	2



Foresite Group, LLC
3001 Brighton Blvd.
Suite 2661
Denver, CO 80216

w | www.fg-inc.net
o | 770.368.1399
f | 770.368.1944

SEAL:



PROJECT:

**ELLICOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____
 LANDLORD _____
 LEASING _____
 CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: PERMIT/CONSTRUCTION
 PROJECT MANAGER: MWM
 DRAWING BY: TMG
 DATE: 03/18/21
 TITLE:

TITLE SHEET

SHEET NUMBER: T-1

JOB/FILE NUMBER: 1110.034

Drawing name: C:\Users\mmerritt\AppData\Local\Temp\AecPublish_5876\Ellcott, CO - PCD_Rev. #_###_###_2020.dwg T-2 Jan 06, 2022 4:15pm by: mmerritt

GENERAL NOTES:

- FOR THE PURPOSE OF THE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
TOWER OWNER – KELLIN COMMUNICATIONS
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, FIBER, AND GROUNDING CABLES SHOWN ON THE POWER & GROUNDING DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH OWNER TO DISCUSS ALL ASPECTS OF THE CONSTRUCTION SCOPE OF THIS DRAWING TO ENSURE HE IS FAMILIAR AND UNDERSTANDS ALL REQUIREMENTS AND INTENT OF EACH ACTIVITY.
- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

SITE WORK GENERAL NOTES:

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 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 ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATION OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF OWNER AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 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 SUB GRADE UNDER THE PROPOSED EQUIPMENT PAD SHALL BE COMPACTED TO 98% PROCTOR AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

STRUCTURAL STEEL NOTES:

- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED OR GALVANIZED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301, ACI 318, ACI 336, ASTM A184
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE; SLUMP: 2" MIN./4" MAX; AIR ENTRAINMENT: 45 TO 6% BY VOLUME; MAXIMUM COARSE AGGREGATE SIZE SHALL BE 1".
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE REINFORCEMENT UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....3"
#5 AND SMALLER & WWF.....3"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL.....1½"
BEAMS AND COLUMNS.....1½"
- A CHAMFER OF 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. IF DRILLING IN EXISTING CONCRETE, NO EXISTING REBAR WILL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE AT BETWEEN 50 DEGREES AND 90 DEGREES FARENHEIT.
- DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOBSITE.
- FOUNDATION INSTALLER SHALL INSURE THAT ALL PROTRUDING THREADS OF PROPOSED ANCHOR BOLTS SHALL BE MAINTAINED CLEAN AND FREE OF CONCRETE.
- FOUNDATION DESIGN IS BASED ON SOIL WITH 2000 PSF BEARING CAPACITY. IF EXISTING SOIL DOES NOT HAVE A MINIMUM 2000 PSF BEARING CAPACITY CONTRACTOR SHALL EXTEND PERIMETER BEAM TO REACH SOIL WITH MINIMUM 2000 PSF BEARING CAPACITY.



Foresite Group, LLC
3001 Brighton Blvd.
Suite 2661
Denver, CO 80216
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f | 770.368.1944

SEAL:



PROJECT:

**ELLCOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____
LANDLORD _____
LEASING _____
CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: MWM
DRAWING BY: TMG
DATE: 03/18/21
TITLE:

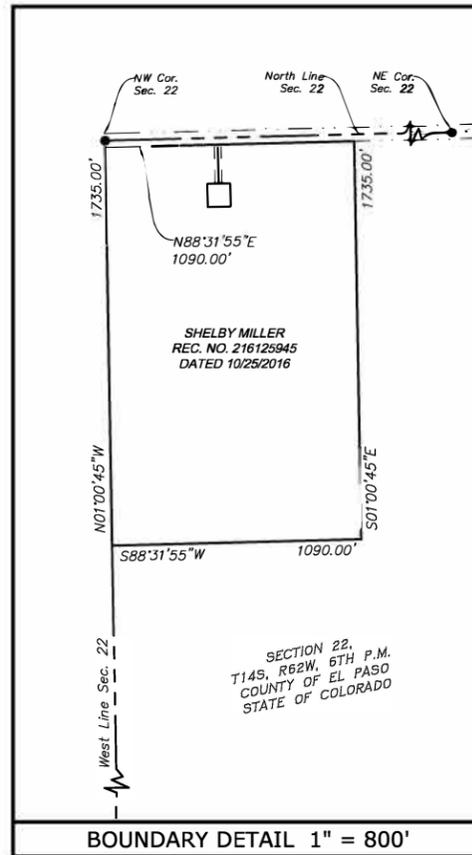
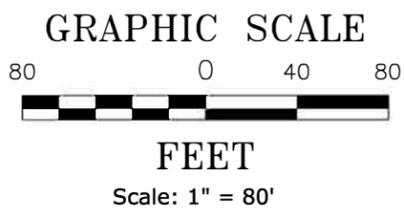
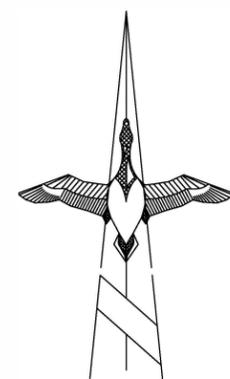
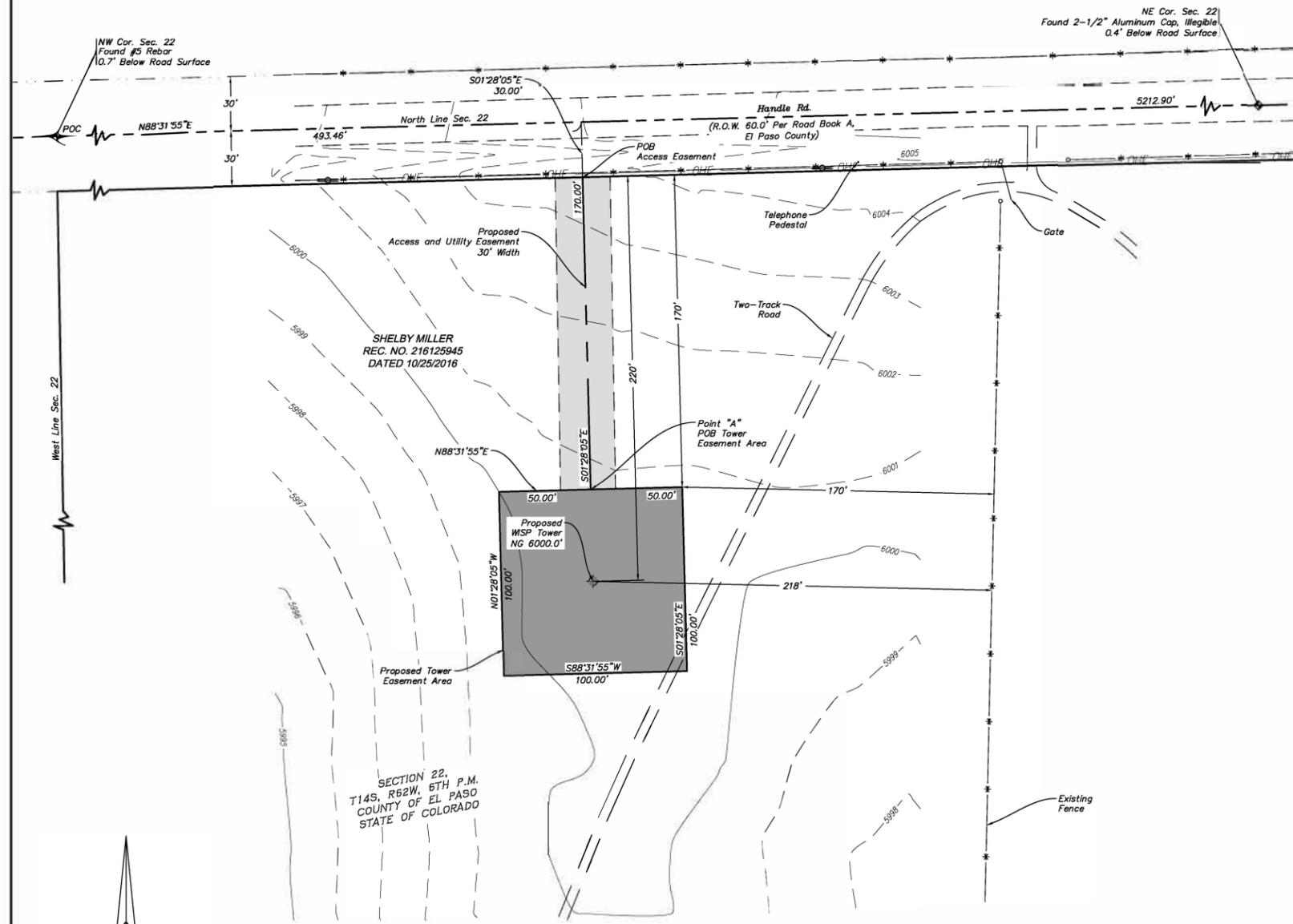
CONSTRUCTION NOTES

SHEET NUMBER: T-2
JOB/FILE NUMBER: 1110.034

LINE LEGEND	
	= SUBJECT PARCEL BOUNDARY LINES
	= SECTION LINES
	= ADJOINING PARCEL BOUNDARY LINES
	= EASEMENT LINES
	= RIGHT OF WAY LINES
	= FLOOD PLANE LINES
	= BARBED WIRE FENCE
	= CHAINLINK FENCE
	= UNDERGROUND ELECTRIC LINES
	= UNDERGROUND GAS LINES
	= OVERHEAD ELECTRIC LINES
	= UNDERGROUND SANITARY SEWER LINES
	= UNDERGROUND TELEPHONE LINES
	= UNDERGROUND WATER LINES

Planning - 2nd comments: mpf
 - Please include the distance to all property lines
 (South and west are missing).

SITE DETAIL



LEGAL DESCRIPTION PARENT PARCEL (PER RECEPTION NO. 2161259450)

A TRACT OF LAND BEING A PORTION OF THE NORTH HALF OF SECTION 22, TOWNSHIP 14 SOUTH, RANGE 62 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 22, THENCE NORTH 89 DEGREES 32 MINUTES 40 SECONDS EAST, COINCIDENT WITH THE NORTH LINE OF SAID SECTION 22, A DISTANCE OF 1090.00 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS WEST, DISTANCE OF 1765.00 FEET; THENCE SOUTH 89 DEGREES 32 MINUTES 40 SECONDS WEST, A DISTANCE OF 1090.00 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, COINCIDENT WITH THE WEST LINE OF SAID SECTION 22, DISTANCE OF 1765.00 FEET TO THE POINT OF BEGINNING.

PROPOSED ACCESS AND UTILITY EASEMENT

BEING A STRIP OF LAND 30.00 FEET IN WIDTH LYING WITHIN A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 14 SOUTH, RANGE 62 WEST, 6TH P.M., EL PASO COUNTY, STATE OF COLORADO, LYING 15.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION, THENCE N88°31'55"E ALONG THE NORTH LINE OF SAID SECTION 22, WITH ALL BEARINGS HEREON REFERENCED TO SAID NORTH LINE SECTION 22, A DISTANCE OF 493.46 FEET, THENCE DEPARTING SAID NORTH LINE SECTION 22, S01°28'05"E A DISTANCE OF 30.00 FEET TO THE POINT OF BEGINNING, SAID POINT OF BEGINNING BEING ON THE SOUTH RIGHT OF WAY LINE OF HANDLE RD; THENCE DEPARTING SAID SOUTH RIGHT OF WAY LINE AND CONTINUING S01°28'05"E A DISTANCE OF 170.00 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A" AND THE END OF SAID STRIP OF LAND. SIDELINES OF SAID STRIP OF LAND ARE TO BE LENGTHENED AND/OR SHORTENED TO PREVENT GAPS AND/OR OVERLAPS.

PROPOSED TOWER EASEMENT AREA

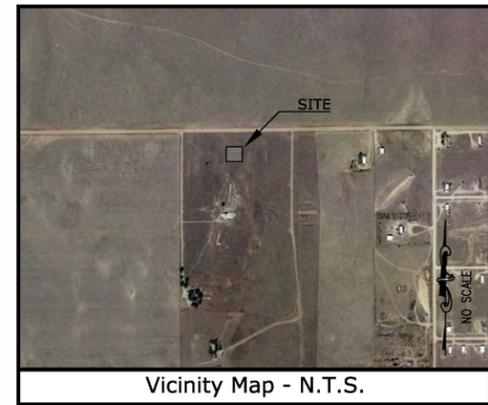
BEING A PARCEL OF LAND LYING WITHIN A PORTION OF THE THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 14 SOUTH, RANGE 62 WEST, 6TH P.M., EL PASO COUNTY, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT POINT "A" AS DESCRIBED ABOVE; THENCE N88°31'55"E, A DISTANCE OF 50.00 FEET; THENCE S01°28'05"E, A DISTANCE OF 100.00 FEET; THENCE S88°31'55"W, A DISTANCE OF 100.00 FEET; THENCE N01°28'05"W, A DISTANCE OF 100.00 FEET; THENCE N88°31'55"E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 10,000 SQ. FT. OR 0.230 ACRES MORE OR LESS.

Underground Utility Note:

BURIED UTILITIES AND/OR PIPELINES SHOWN HEREON ARE PER VISIBLE AND APPARENT SURFACE EVIDENCE OR MARKINGS PROVIDED BY AN INDEPENDENT LOCATING CONTRACTOR. NO GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY COMPLETENESS OR THOROUGHNESS OF SUCH INFORMATION. IF ACCURATE LOCATIONS OF UNDERGROUND UTILITIES OR PIPE LINES ARE REQUIRED, THE UTILITY OR PIPELINE WILL HAVE TO BE VERIFIED BY FIELD POT-HOLING. ALTURA LAND CONSULTANTS, LLC AND THE SURVEYOR OF RECORD SHALL NOT BE HELD LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES OR PIPELINES.



Vicinity Map - N.T.S.

1-A CERTIFICATION	
LATITUDE = N038°49'25.34"	(NAD '83)
(N38.823705')	
LONGITUDE = W104°19'49.36"	(NAD '83)
(W104.330377')	
GROUND ELEVATION = 6000'	(NAD '88)

Date of Survey

AUGUST 18, 2020

Basis of Bearings

THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD83).
 CLASSIFICATION MINIMUM GEOMETRIC ACCURACY STANDARD
 THIRD 5.0 cm + 1: 10,000

Bench Mark

ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM AS DERIVED UTILIZING THE LEICA SMARTNET RTK REFERENCE NETWORK.

Legend

	CONCRETE PAVEMENT		NATURAL GROUND ELEVATION
	CONFEROUS TREE		PARKING BOLLARD
	DIAMETER		POINT OF BEGINNING
	DECIDUOUS TREE		POINT OF COMMENCEMENT
	EDGE OF ASPHALT		OVERHEAD ELECTRIC LINE
	FINISHED FLOOR		POWER POLE
	FINISH SURFACE		PROPERTY LINE
	FIRE HYDRANT		RIGHT OF WAY
	FLOW LINE		SEWER MANHOLE
	FOUND MONUMENT AS NOTED		SIGN POST
	FOUND SECTION MONUMENT		STREET LIGHT STANDARD
	GEOGRAPHIC LOCATION		TELEPHONE PEDESTAL
	GAS METER		TYPICAL
	IRRIGATION CHANNEL		WATER METER
	IRRIGATION CONTROL VALVE		WATER VALVE



NOTICE:

ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Engineer/Consultant:
ALTURA
 LAND CONSULTANTS, LLC
 6950 S. Tucson Way, Unit C
 Centennial, CO 80112
 Phone: (720) 468-1333
 Drawn By: JWW
 Job No.: 20-452

Architect:
KELLIN
 communications

ELLCOTT WISP TOWER
 HANDLE RD & DUSTRUDE LN
 ELLICOTT, CO, 80808
 COUNTY OF EL PASO
TOPOGRAPHIC SURVEY

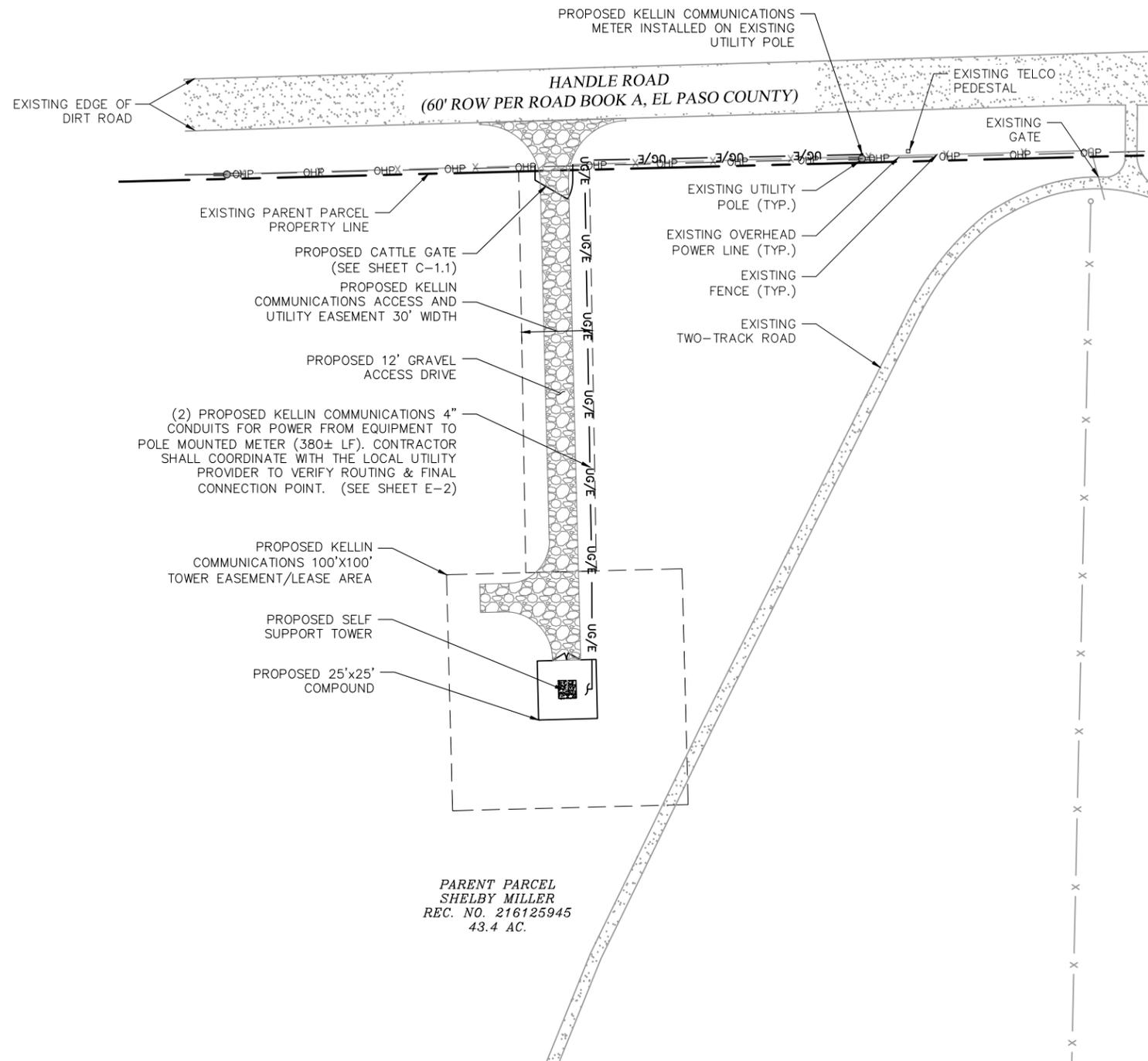
REVISIONS	DATE	DESCRIPTION
0	08/31/2020	SUBMITTAL

Sheet:
LS1

EXISTING CONDITIONS ARE BASED ON A SITE WALK COMPLETED BY FORESITE GROUP ON 07/28/2020 AND SURVEY PREPARED BY ALTURA LAND CONSULTANTS, DATED 08/31/2020. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

Tower Setbacks to Property Lines:

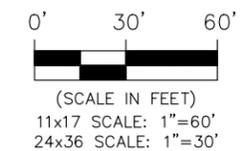
North: 220'
East: 218'
South: 1500'+
West: 470'



PARENT PARCEL
 SHELBY MILLER
 REC. NO. 216125945
 43.4 AC.

OVERALL SITE PLAN

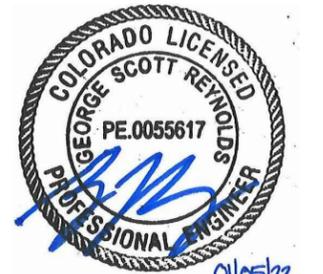
GRAPHIC SCALE



Foresite Group, LLC
 3001 Brighton Blvd.
 Suite 2661
 Denver, CO 80216

w | www.fg-inc.net
 o | 770.368.1399
 f | 770.368.1944

SEAL:



PROJECT:

**ELLICOTT, CO
 WISP TOWER**

LOCATED AT:
 26907 HANDLE RD
 CALHAN, CO 80808

APPROVALS

CARRIER _____
 LANDLORD _____
 LEASING _____
 CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

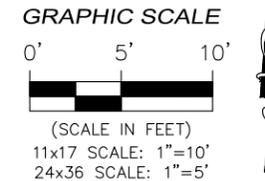
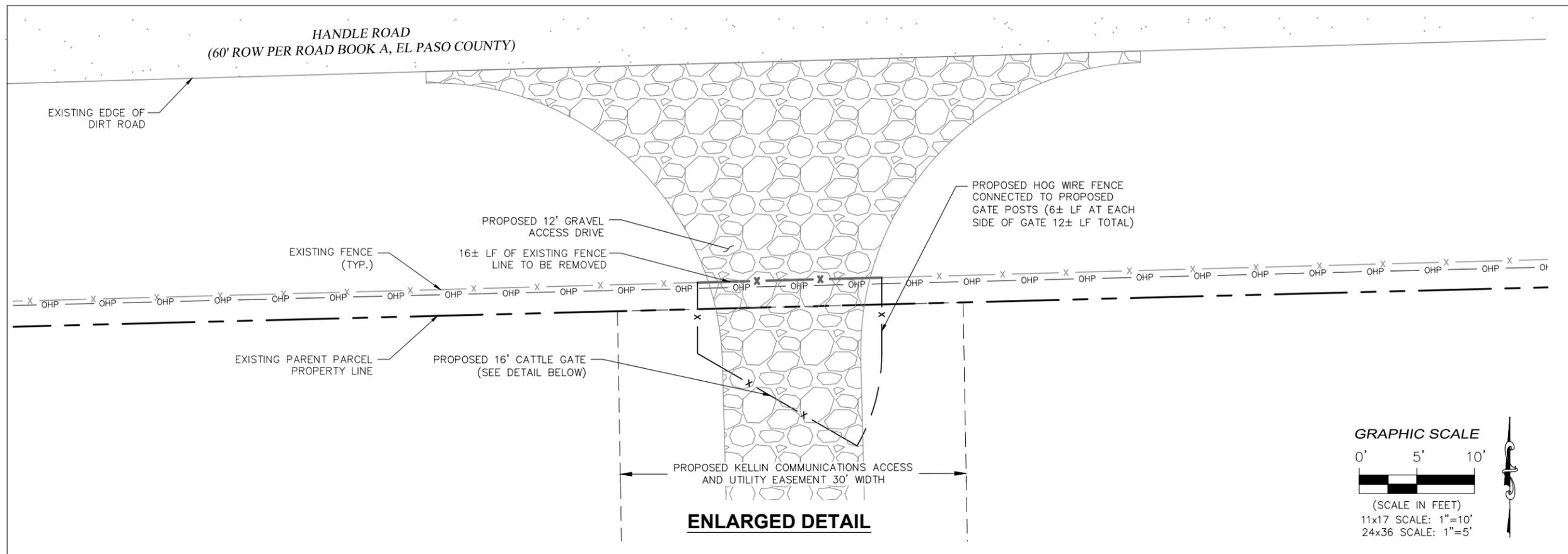
ISSUED FOR: PERMIT/CONSTRUCTION
 PROJECT MANAGER: MWM
 DRAWING BY: TMG
 DATE: 03/18/21
 TITLE:

OVERALL SITE PLAN

SHEET NUMBER: C-1

JOB/FILE NUMBER: 1110.034

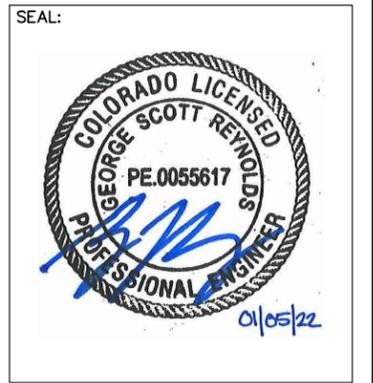
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FORESITE group

Foresite Group, LLC
3001 Brighton Blvd.
Suite 2661
Denver, CO 80216

w | www.fg-inc.net
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f | 770.368.1944



PROJECT:

ELLICOTT, CO WISP TOWER

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____

LANDLORD _____

LEASING _____

CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: PERMIT/CONSTRUCTION

PROJECT MANAGER: MWM

DRAWING BY: TMG

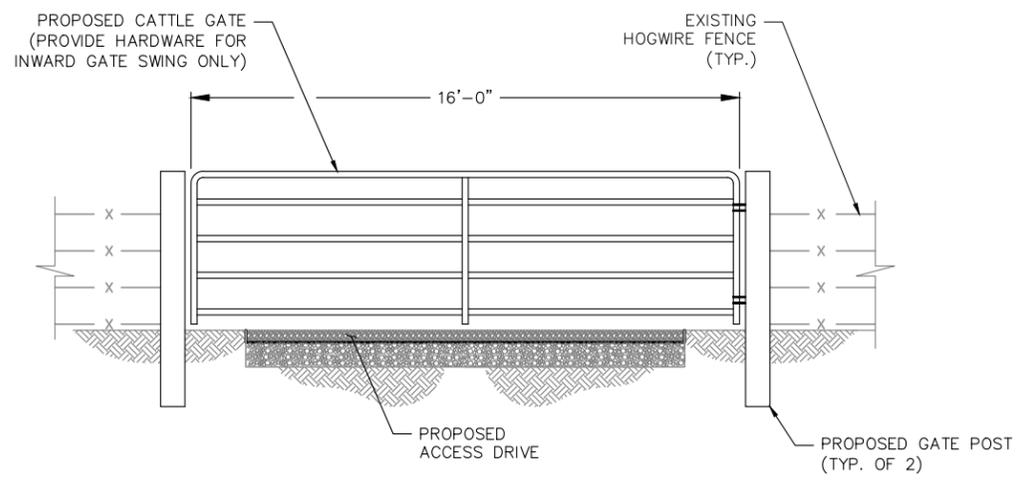
DATE: 03/18/21

TITLE:

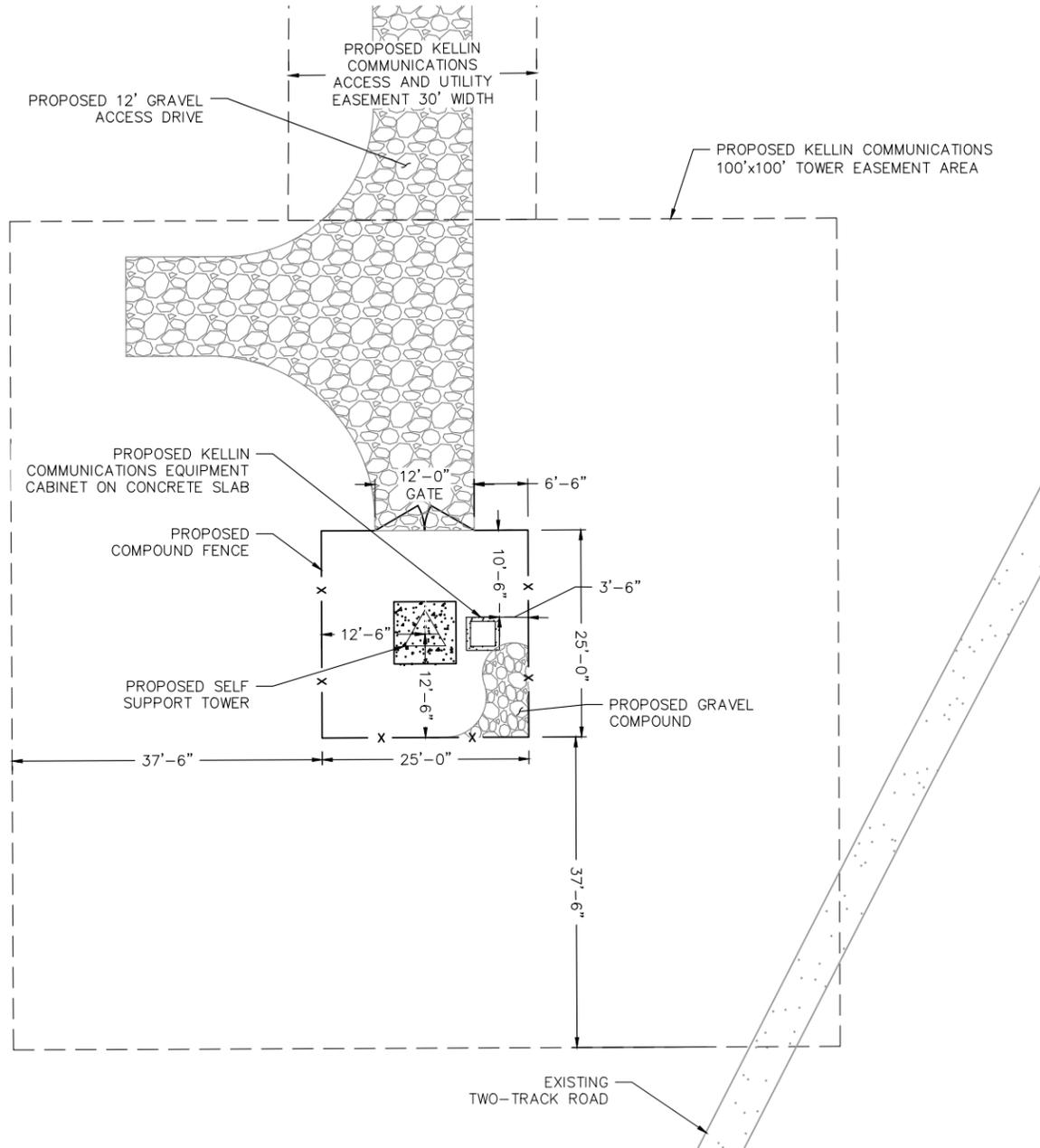
APRON & GATE DETAIL

SHEET NUMBER: C-1.1

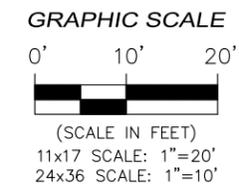
JOB/FILE NUMBER: 1110.034



EXISTING CONDITIONS ARE BASED ON A SITE WALK COMPLETED BY FORESITE GROUP ON 07/28/2020 AND SURVEY PREPARED BY ALTURA LAND CONSULTANTS, DATED 08/31/2020. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.



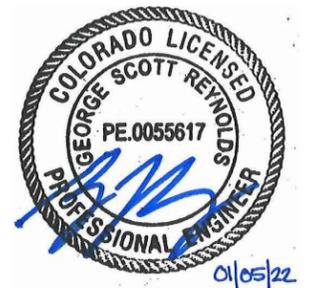
ENLARGED SITE PLAN



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SEAL:



PROJECT:

**ELLICOTT, CO
 WISP TOWER**

LOCATED AT:
 26907 HANDLE RD
 CALHAN, CO 80808

APPROVALS

CARRIER _____
 LANDLORD _____
 LEASING _____
 CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: PERMIT/CONSTRUCTION
 PROJECT MANAGER: MWM
 DRAWING BY: TMG
 DATE: 03/18/21
 TITLE:

ENLARGED SITE PLAN

SHEET NUMBER: C-2

JOB/FILE NUMBER: 1110.034

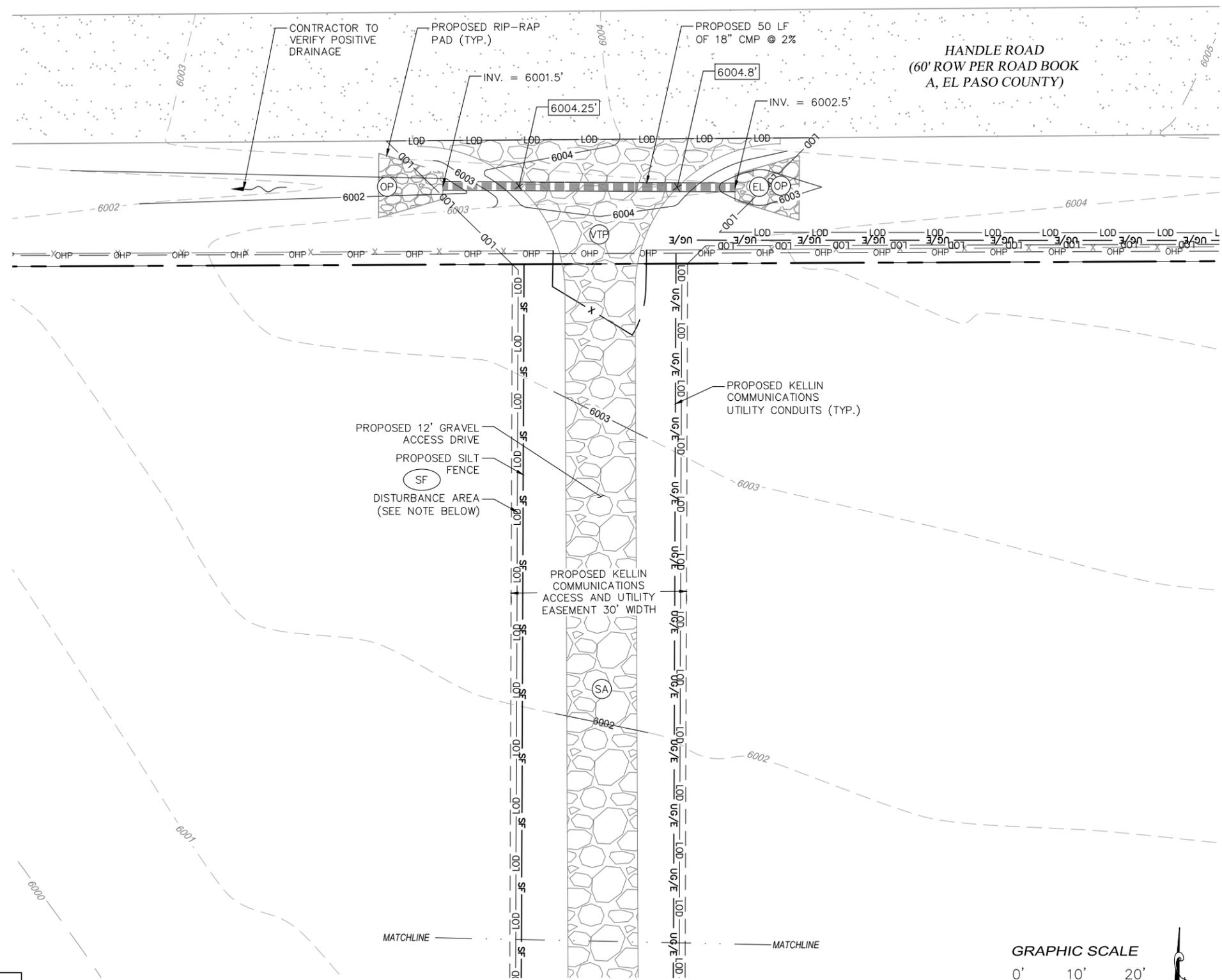
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LEGEND

- SF — SF — PROPOSED SILT FENCE
- - - - - XXX - - - - - EXISTING MINOR CONTOUR
- - - - - XXX - - - - - EXISTING MAJOR CONTOUR
- XXX — PROPOSED CONTOUR
- LOD — LOD — PROPOSED LIMITS OF DISTURBANCE
- ← — DIRECTION OF WATER FLOW
- + [XXX.X'] — PROPOSED SPOT ELEVATION

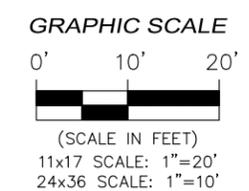
REFER TO COLORADO EROSION & STORMWATER QUALITY GUIDE FOR EROSION CONTROL MEASURE DETAILS

- (VTP) VEHICLE TRAFFICKING CONTROL
- [WEC] WIND EROSION CONTROL
- [MU] MULCHING
- [TS] SEEDING
- (SF) SILT FENCE
- (OP) OUTLET PROTECTION
- (EL) EROSION LOG
- (SA) CONSTRUCTION ROAD & STAGING AREA STABILIZATION

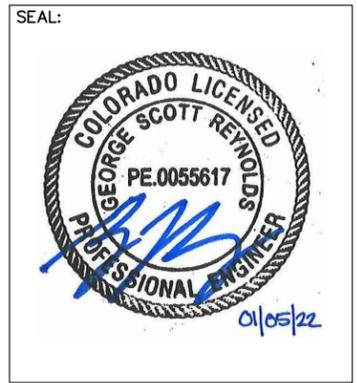


GRADING & EROSION CONTROL PLAN

PROPOSED PROJECT DISTURBED AREA (0.35 AC; INCLUDING PROPOSED TOWER AND ACCESS EASEMENT) IS DESIGNED TO NOT EXCEED 1 AC (TOTAL). PRIOR TO CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER IF ADDITIONAL IMPROVEMENTS WILL BE REQUIRED WHICH RESULT IN GREATER THAN 1 AC TOTAL DISTURBED AREA.



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PROJECT:
ELLICOTT, CO WISP TOWER
 LOCATED AT:
 26907 HANDLE RD
 CALHAN, CO 80808

APPROVALS

CARRIER _____

LANDLORD _____

LEASING _____

CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: PERMIT/CONSTRUCTION
 PROJECT MANAGER: MWM
 DRAWING BY: TMG
 DATE: 03/18/21
 TITLE:

GRADING & EROSION CONTROL PLAN
 SHEET NUMBER: C-3
 JOB/FILE NUMBER: 1110.034

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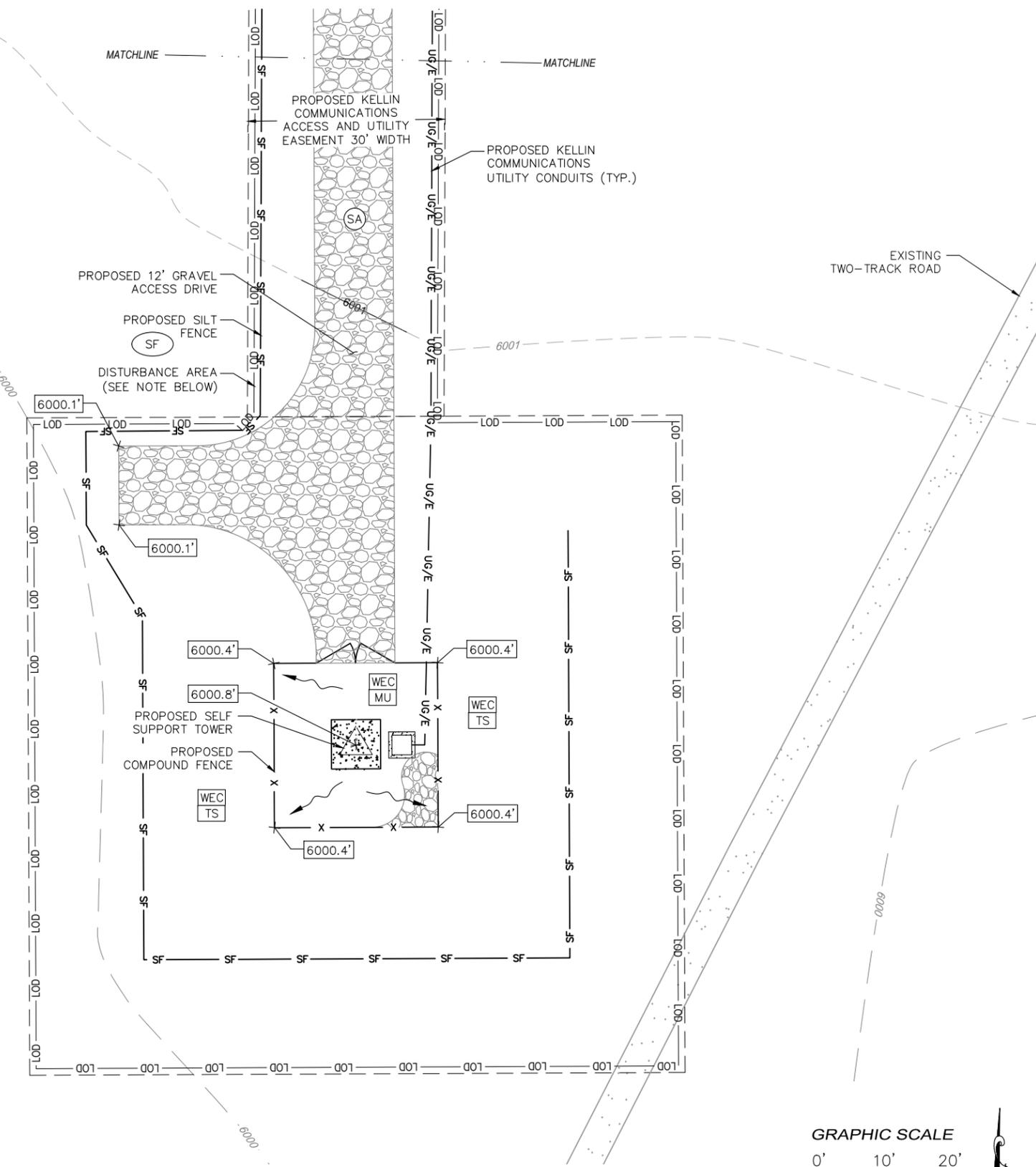
LEGEND

- PROPOSED SILT FENCE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED CONTOUR
- PROPOSED LIMITS OF DISTURBANCE
- DIRECTION OF WATER FLOW
- PROPOSED SPOT ELEVATION

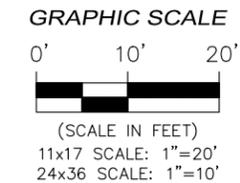
REFER TO COLORADO EROSION & STORMWATER QUALITY GUIDE FOR EROSION CONTROL MEASURE DETAILS

- VEHICLE TRAFFICKING CONTROL
- WIND EROSION CONTROL
- MULCHING
- SEEDING
- SILT FENCE
- OUTLET PROTECTION
- EROSION LOG
- CONSTRUCTION ROAD & STAGING AREA STABILIZATION

PROPOSED PROJECT DISTURBED AREA (0.35 AC; INCLUDING PROPOSED TOWER AND ACCESS EASEMENT) IS DESIGNED TO NOT EXCEED 1 AC (TOTAL). PRIOR TO CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER IF ADDITIONAL IMPROVEMENTS WILL BE REQUIRED WHICH RESULT IN GREATER THAN 1 AC TOTAL DISTURBED AREA.

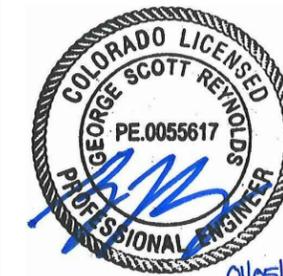


GRADING & EROSION CONTROL PLAN



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SEAL:



PROJECT:

**ELLICOTT, CO
 WISP TOWER**

LOCATED AT:
 26907 HANDLE RD
 CALHAN, CO 80808

APPROVALS

CARRIER _____
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ISSUED FOR: PERMIT/CONSTRUCTION
 PROJECT MANAGER: MWM
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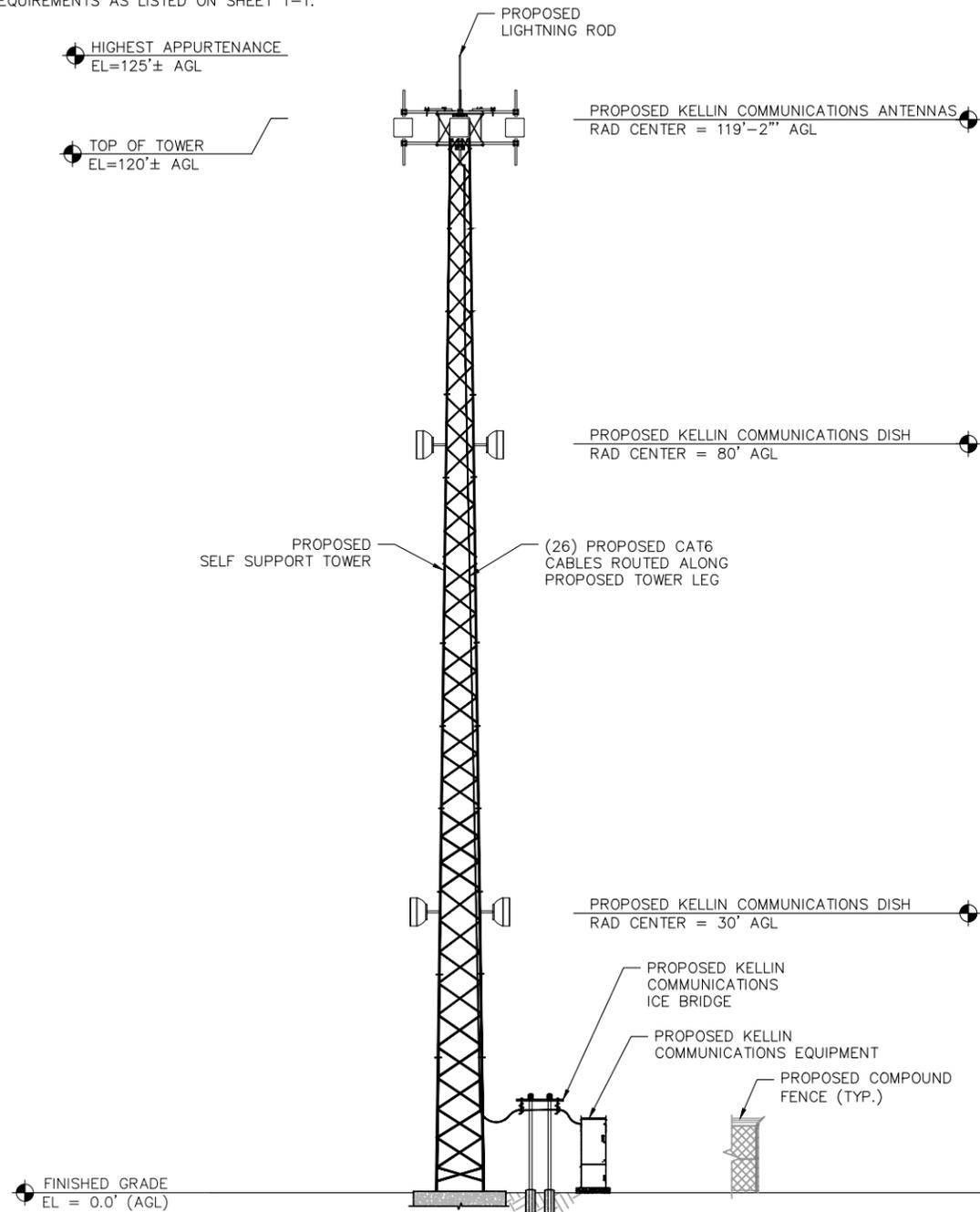
**GRADING & EROSION
 CONTROL PLAN**

SHEET NUMBER: C-3.1
 JOB/FILE NUMBER: 1110.034

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TOWER NOTES:

1. THE PROPOSED TOWER, FOUNDATION, ANTENNA MOUNTS, AND ANTENNAS DESIGNED BY OTHERS.
2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
3. CONTRACTOR TO REFER TO FINAL TOWER DRAWINGS COMPLETED BY ALL STATE TOWER, INC. DATED 02/04/2021 FOR DETAILS ON REQUIRED ANTENNA MOUNTING LAYOUT, COAX ROUTING AND ANY OTHER MODIFICATIONS THAT COULD AFFECT THE OVERALL TOWER STRUCTURAL CAPACITY.
4. CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION AND PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED ANTENNAS. ALL ANTENNAS AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS AS LISTED ON SHEET T-1.
5. RF INFORMATION SHOWN ON THESE PLANS IS BASED ON LATEST DESIGNED APPURTENANCE LOADING TABLE PROVIDED BY KELLIN COMMUNICATIONS. CONTRACTOR TO OBTAIN DESIGNED APPURTENANCE LOADING TABLE FROM KELLIN COMMUNICATIONS AT TIME OF CONSTRUCTION FOR FINAL DESIGN AND ADVISE ENGINEER OF DEVIATIONS (IF ANY).
6. CENTERLINE OF THE ANTENNAS TO BE WITHIN 6" (VERTICALLY) OF THE CENTERLINE OF EACH SECTOR MOUNT, UNLESS SPECIFIED BY ENGINEER.



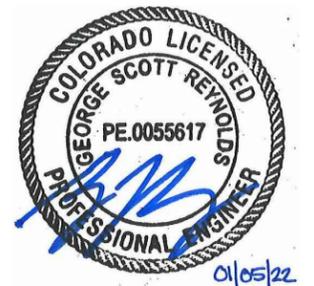
TOWER ELEVATION
NOT TO SCALE



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SEAL:



PROJECT:

**ELLICOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

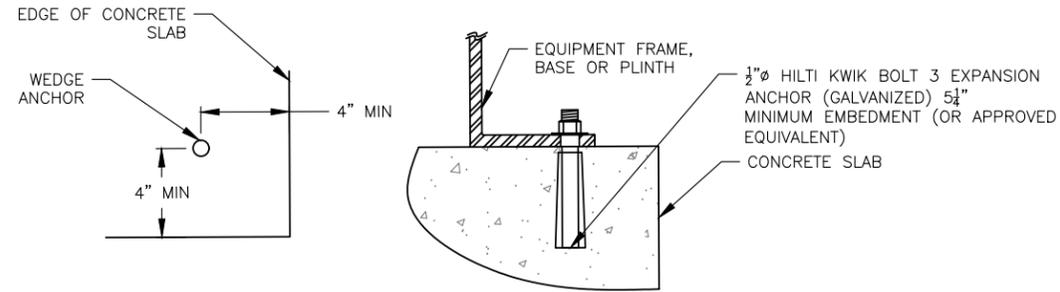
CARRIER _____
LANDLORD _____
LEASING _____
CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

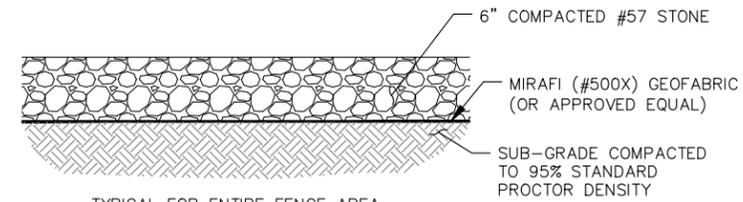
ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: MWM
DRAWING BY: TMG
DATE: 03/18/21
TITLE:

TOWER ELEVATION &
ANTENNA ORIENTATION
SHEET NUMBER: C-4
JOB/FILE NUMBER: 1110.034

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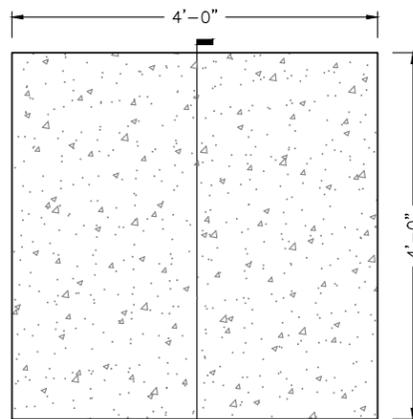


EQUIPMENT ANCHOR BOLT DETAIL
NOT TO SCALE

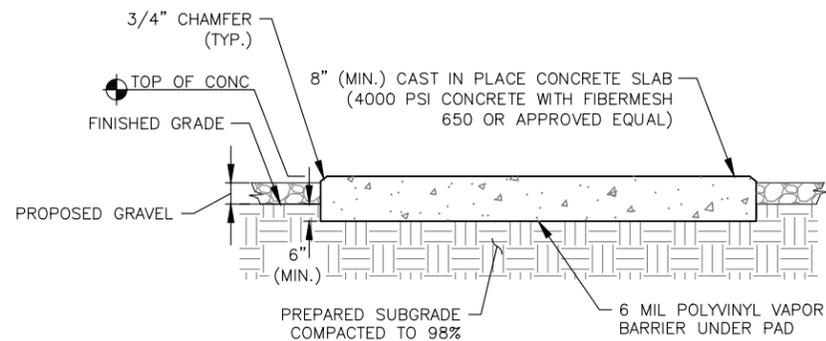


COMPOUND BASE DETAIL
NOT TO SCALE

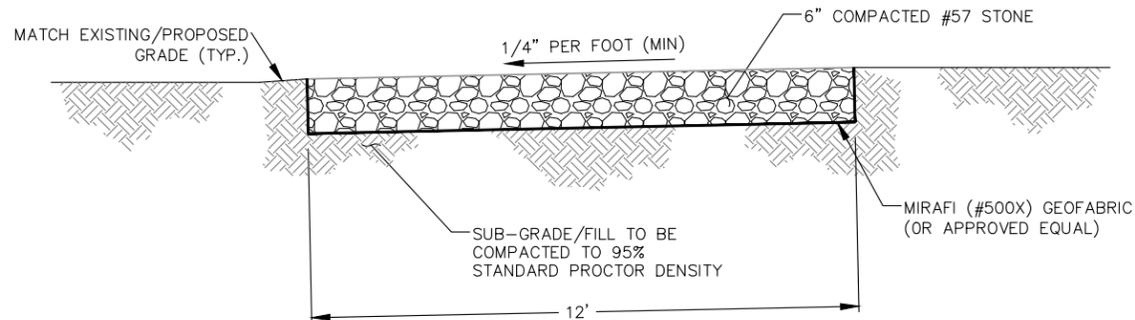
NOTES:
1. THIS DETAIL FOR REFERENCE ONLY. CONTRACTOR TO REFER TO SITE PLAN FOR ACTUAL ORIENTATION OF EQUIPMENT SLAB.



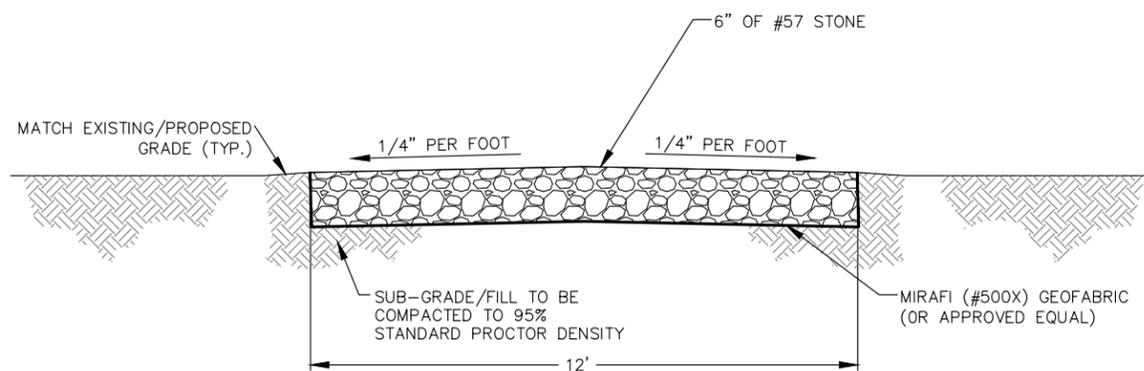
SLAB DETAIL
NOT TO SCALE



SECTION A
NOT TO SCALE



CROSS-SLOPED DRIVE



CROWNED DRIVE

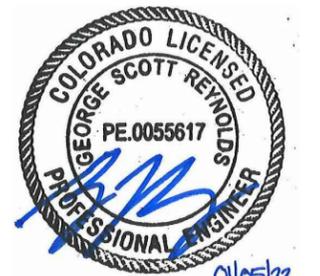
APRON/ACCESS DRIVE DETAILS
NOT TO SCALE



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SEAL:



PROJECT:

**ELLCOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____
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REVISIONS	DATE
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ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: MWM
DRAWING BY: TMG
DATE: 03/18/21
TITLE:

FOUNDATION &
ACCESS DRIVE DETAILS
SHEET NUMBER: C-5
JOB/FILE NUMBER: 1110.034

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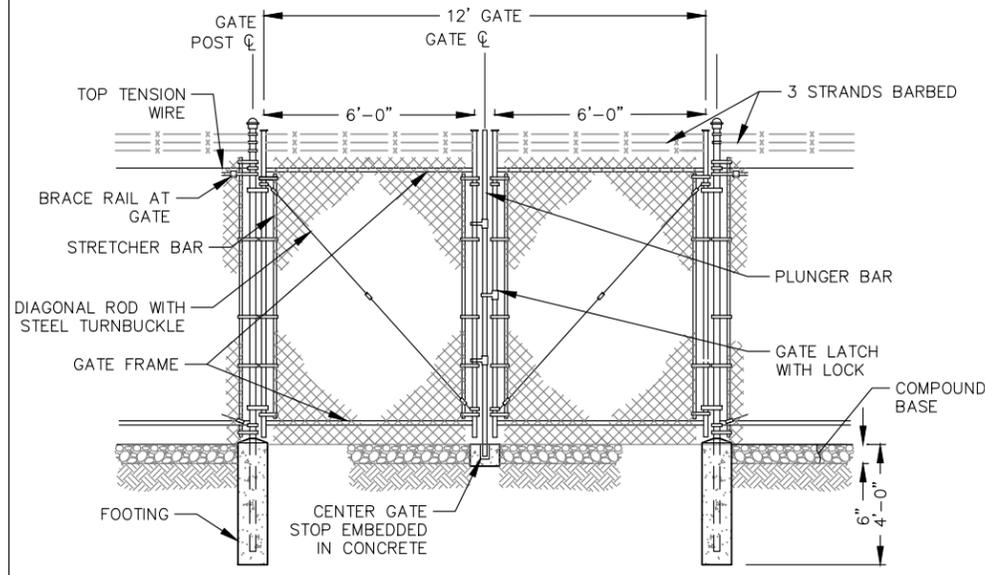
FENCE NOTES:

(INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F- 900)

1. GATE POST: 3½" DIA. SCHEDULE 40 PER ASTM-F 1083.
2. CORNER AND TERMINAL OR PULL POST: 3" DIA. SCHEDULE 40 PER ASTM-F 1083.
3. LINE POST: 2" DIA. SCHEDULE 40 PIPE PER ASTM-F 1083.
4. GATE FRAME: 1½" DIA. SCHEDULE 40 PIPE PER ASTM-F 1083.
5. TOP RAIL AND BRACE RAIL: 1½" DIA. SCHEDULE 40 PIPE PER ASTM-F 1083.
6. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
7. TIE WIRE: MINIMUM 9 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAXIMUM 24" INTERVALS.
8. TENSION WIRE: 6 GA. GALVANIZED STEEL.
9. BARBED WIRE DOUBLE STRAND 12-½" GA. TWISTED WIRE TO MATCH WITH FABRIC 14 GA., 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
10. GATE LATCH: 1-⅜" O.D. PLUNGER ROD WITH MUSHROOM TYPE CATCH AND LOCK, KEYED ALIKE FOR ALL SITES IN A GIVEN MTA.
11. COMPLY WITH ANY LOCAL ORDINANCES REQUIRING PERMITS FOR PLACEMENT OF BARBED WIRE.
12. WARNING SIGNS USING THE INTERNATIONAL SYMBOL OF ELECTRICAL SHOCK HAZARD SHALL BE FURNISHED AND INSTALLED ON THE EXTERIOR OF ALL SIDES OF THE MAIN PERIMETER FENCE AND THE GATE. ADDITIONALLY, SIGNS SHALL BE FURNISHED AND INSTALLED THAT STATE "NO TRESPASSING" IN ENGLISH. THE SIGNS SHALL BE IMPERVIOUS TO WEATHERING AND BE MOUNTED TO AVOID EASE OF REMOVAL BY VANDALS.

TYPICAL WOVEN WIRE FENCING NOTES

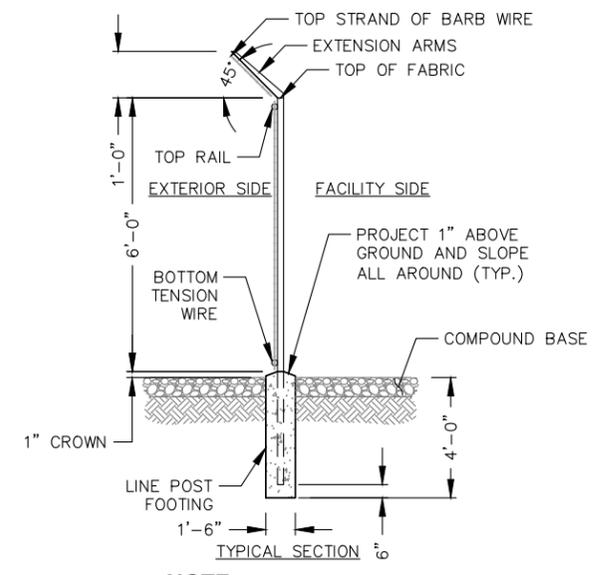
NOT TO SCALE



NOTE:
SEE NOTES THIS SHEET

DOUBLE SWING GATE DETAIL

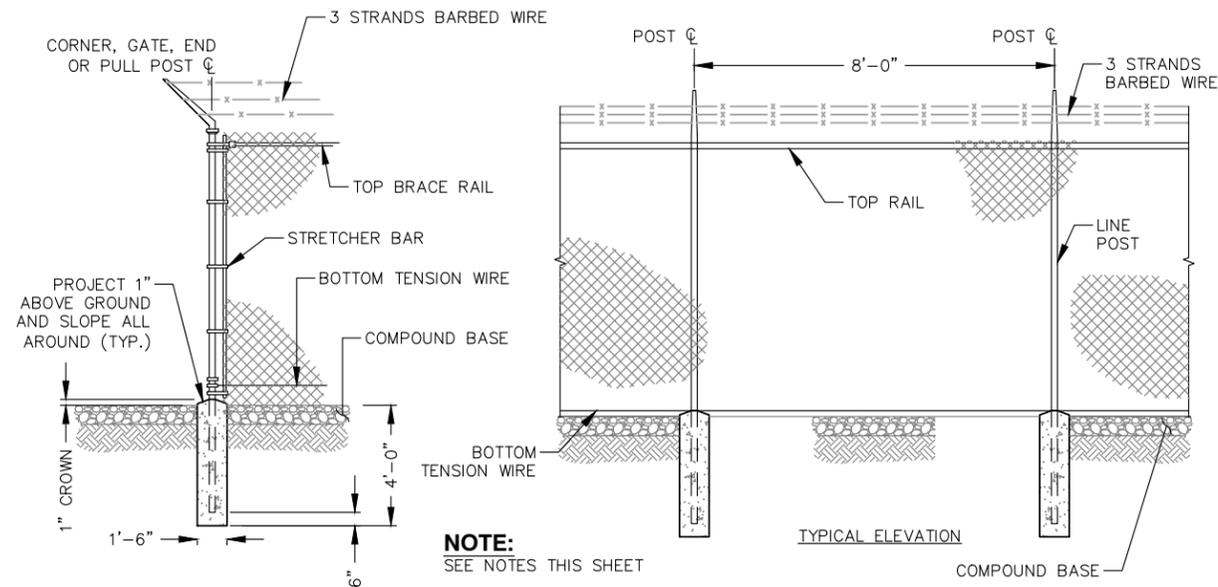
NOT TO SCALE



NOTE:
SEE NOTES THIS SHEET

WOVEN WIRE FENCE DETAIL

NOT TO SCALE



NOTE:
SEE NOTES THIS SHEET

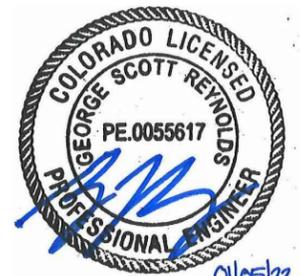
WOVEN WIRE CORNER, GATE, END OR PULL POST DETAIL

NOT TO SCALE



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SEAL:



PROJECT:

**ELLICOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____
LANDLORD _____
LEASING _____
CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
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ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: MWM
DRAWING BY: TMG
DATE: 03/18/21
TITLE:

FENCE DETAILS

SHEET NUMBER: C-6

JOB/FILE NUMBER: 1110.034

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ELECTRICAL INSTALLATION NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NE & OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (IE., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE USE-2 CABLE (314 AWG OR LARGER), 600 V, OIL RESISTANT RHW-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 90°C.
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- RIGID NON-METALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR IN AREAS OF HEAVY VEHICLE TRAFFIC, GALVANIZED RIGID CONDUIT SHALL BE USED.
- ALL OUTDOOR EXPOSED CONDUIT SHALL BE RMC AND SHALL BE SUPPORTED ADEQUATELY.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LTMC) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. LFMC SHALL CONFORM TO NEC ARTICLE 350.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.

ELECTRICAL INSTALLATION NOTES (CONT.)

- CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- ALL SAFETY SWITCHES SHALL BE NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, UL LISTED 200K SCCR RATED, REJECTION TYPE, WITH RK1 FUSES. FUSES SHALL HAVE AN AIR OF 200K AND SHALL HAVE A LIMITING RATING AS SHOWN IN THESE DRAWINGS. EQUIPMENT AND ACCESSORIES SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER.
- ALL LOAD CENTERS SHALL BE 42 SPACE UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, MCB WITH CONVERTIBLE MAINS, UL LISTED 22K IA OR HIGHER SCCR, WITH 22K AIR BREAKERS, BREAKERS AND LOAD CENTER SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER. BREAKERS SHALL HAVE A LIMITING RATING AS SPECIFIED ON THESE DRAWINGS.
- CONTRACTOR SHALL LABEL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16 AND 110.24.
- CONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY AT SERVICE ENTRANCE.
- CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATIONS.
- DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

GROUNDING NOTES

- ALL GROUNDING CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELDING PROCESS (CAD WELD OR EQUAL) EXCEPT FOR EQUIPMENT THAT MAY BE MECHANICALLY FASTENED. ALL LUGS SHALL BE TWO HOLE, LONG BARREL TYPE, FOR COPPER, UNLESS OTHERWISE NOTED.
- ALL GROUND RODS SHALL BE INSTALLED AT 30" BELOW GRADE PER MANUFACTURER'S SPECIFICATIONS. UNDERGROUND GROUNDING CONDUCTORS SHALL BE 30" BELOW GRADE.
- ALL EXTERIOR GROUND CONDUCTORS SHALL BE MIN. #2 AWG SOLID TINNED COPPER WIRE BARE. EQUIPMENT GROUND CONDUCTORS SHALL BE MIN. #6 GREEN INSULATED, UNLESS OTHERWISE NOTED.
- GROUND RODS FOR GROUND RING SHALL BE SPACED AT BETWEEN 2 x LENGTH OF ROD (MIN.) AND 2.5 x LENGTH OF ROD (MAX.) TO MAXIMIZE EFFICIENCY.
- ANY METAL OBJECT WITHIN 6 FEET OF THE TOWER OR EQUIPMENT GROUND RING SHALL BE BONDED DIRECTLY TO THE RING.
- THE MINIMUM BENDING RADIUS FOR ALL GROUNDING CONDUCTORS #6 AWG OR LARGER SHALL BE 24".
- ALL ABOVE GRADE GROUND CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD EARTH AND HORIZONTAL ONLY WHERE NECESSARY.
- ALL CONDUCTORS SHALL BE ROUTED SUCH THAT THERE ARE NO INCLUDED ANGLES OF LESS THAN 90 DEGREES.
- PRIOR TO CONNECTING TO UTILITY, THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A RECOMMENDED TEST RESULT OF 5 OHMS OR LESS INDEPENDENT OF UTILITY GROUND.
- ALL GROUNDING SHALL COMPLY WITH THE N.E.C. AND UL96A LIGHTNING PROTECTION STANDARD.
- ALL GROUNDING COMPONENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- ANY METAL CONDUIT MOUNTED ON THE TOWER SHALL BE BONDED TO THE TOWER AT EACH END.
- ALL EXPOSED GROUNDING SHALL BE IN NON-METALLIC FLEX CONDUIT AND SECURED AS NECESSARY.
- WHEN BONDING TO EQUIPMENT, REMOVE PAINT TO BARE STEEL AND PROTECT WITH A COATING OF NO-OX.
- APPROVED ANTIOXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- BOND ICE BRIDGE SECTIONS TOGETHER EXOTHERMICALLY OR WITH 2 HOLE LUGS. BOND ICE BRIDGE TO SUPPORT POSTS.
- THESE NOTES ARE NOT ALL-ENCOMPASSING. REFER TO CARRIER/TOWER OWNER FOR COMPLETE GROUNDING GUIDELINES.



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SEAL:



PROJECT:

**ELLICOTT, CO
WISP TOWER**

LOCATED AT:
26907 HANDLE RD
CALHAN, CO 80808

APPROVALS

CARRIER _____
 LANDLORD _____
 LEASING _____
 CONSTRUCTION _____

REVISIONS	DATE
▲ E911 ADDRESS	08/19/21
▲ ADDRESS UPDATE	01/05/22

ISSUED FOR: _____ PERMIT/CONSTRUCTION
 PROJECT MANAGER: _____ MWM
 DRAWING BY: _____ TMG
 DATE: _____ 03/18/21
 TITLE: _____

ELECTRICAL NOTES

SHEET NUMBER: _____ E-1

JOB/FILE NUMBER: _____ 1110.034

Drawing name: C:\Users\mmerritt\AppData\Local\Temp\AcPublish_5876\Ellcott, CO - PCD_Rev. #_###_###_2020.dwg E-2 Jan 06, 2022 4:15pm by: mmerritt

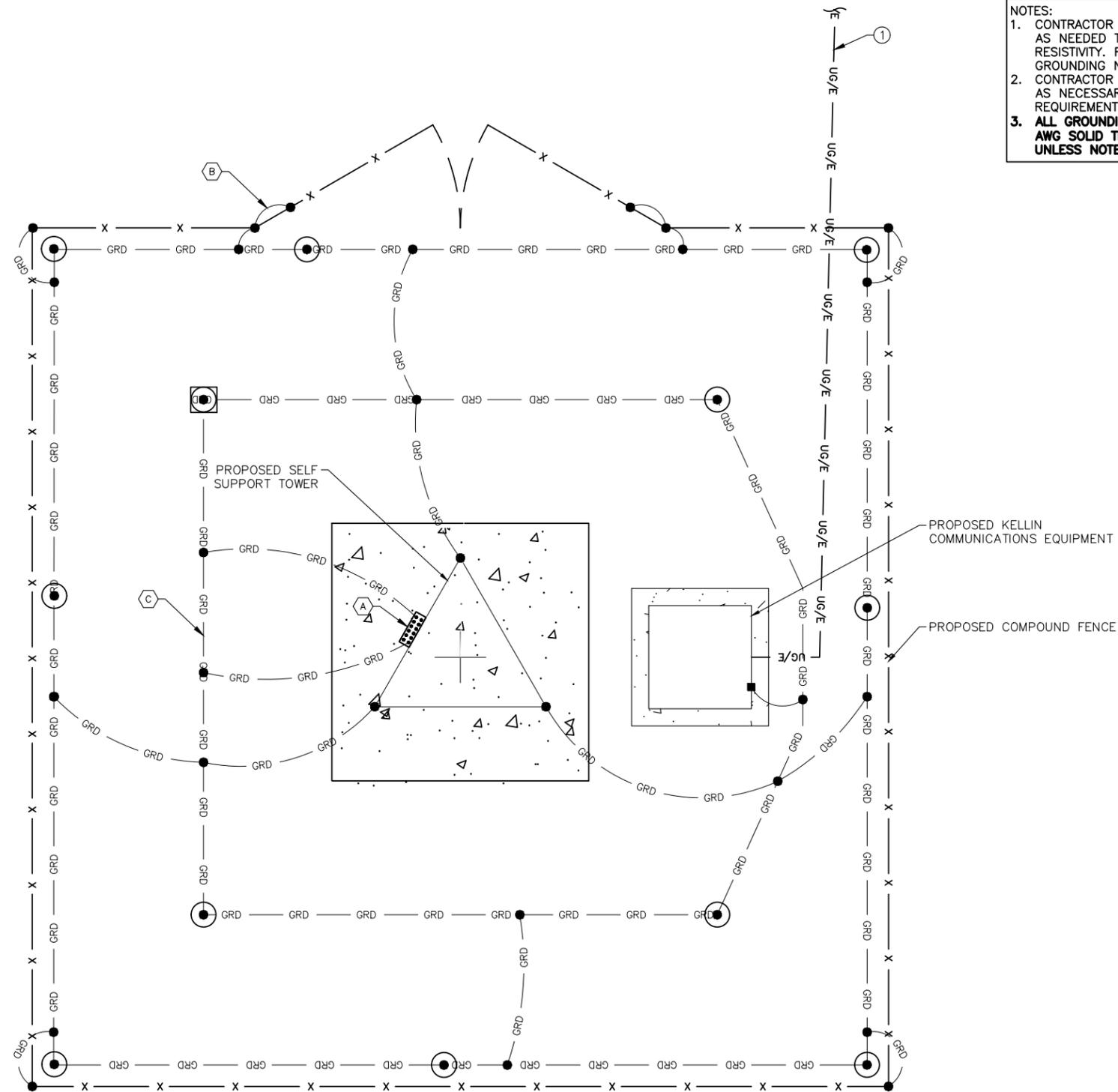
CONDUIT KEY NOTES

- ① (2) PROPOSED 4" CONDUIT FOR POWER FROM POLE MOUNTED METER TO KELLIN COMMUNICATIONS EQUIPMENT CABINET (380± LF). (CONTRACTOR SHALL FIELD VERIFY FINAL ROUTING)

GROUNDING KEY NOTES

- Ⓐ PROPOSED LOWER TOWER GROUND BUSS BAR BONDED TO PROPOSED TOWER GROUND RING (2 LEADS TYP.)
- Ⓑ PROPOSED FENCE & GATE GROUNDING
- Ⓒ PROPOSED TOWER GROUND RING

- NOTES:**
1. CONTRACTOR TO INSTALL GROUND RODS AS NEEDED TO PROVIDE RECOMMENDED RESISTIVITY. REFER TO ELECTRICAL & GROUNDING NOTES ON SHEET E-1.
 2. CONTRACTOR TO INSTALL HANDHOLES AS NECESSARY PER LOCAL UTILITY REQUIREMENTS.
 3. **ALL GROUNDING CONDUCTORS ARE #2 AWG SOLID TINNED COPPER WIRE BARE, UNLESS NOTED OTHERWISE.**

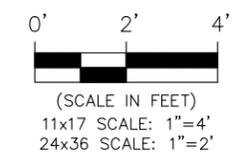


LEGEND:

- PROPOSED GROUND ROD TEST WELL
- PROPOSED GROUND ROD
- PROPOSED EXOTHERMIC WELD
- PROPOSED MECHANICAL GROUND CONNECTION
- PROPOSED GROUND BUSS BAR
- PROPOSED GROUNDING SYSTEM
- PROPOSED POWER ROUTING

SITE SERVICE ROUTING & COMPOUND GROUNDING PLAN

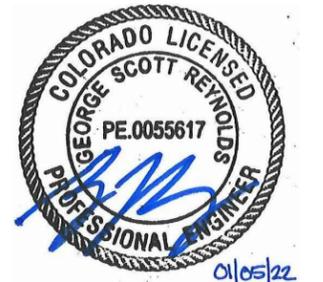
GRAPHIC SCALE



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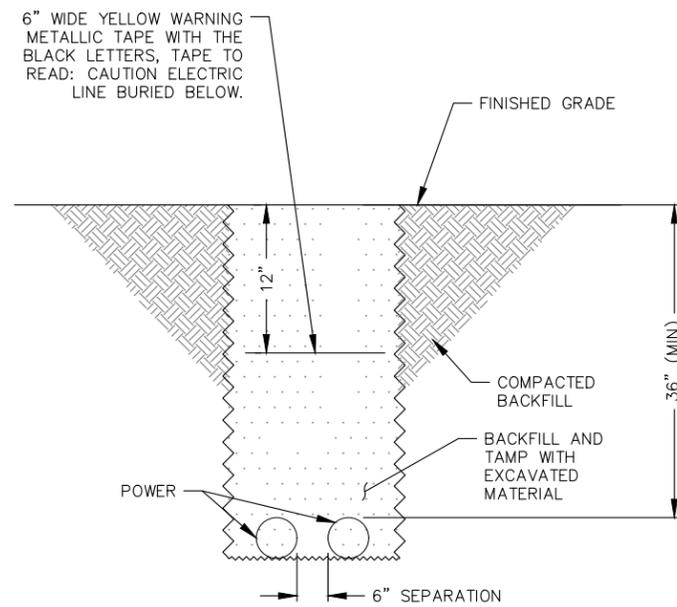
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PROJECT MANAGER: MWM
DRAWING BY: TMG
DATE: 03/18/21
TITLE:

**SITE SERVICE ROUTING
& COMPOUND
GROUNDING PLAN**

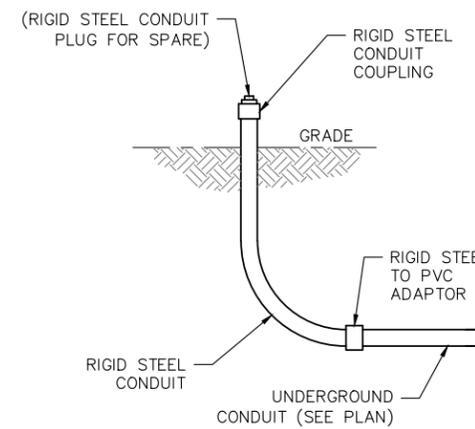
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JOB/FILE NUMBER: 1110.034

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UTILITY TRENCH DETAIL
NOT TO SCALE



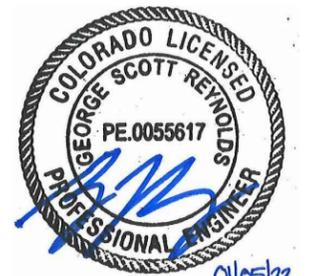
UNDERGROUND CONDUIT STUB-UP
NOT TO SCALE



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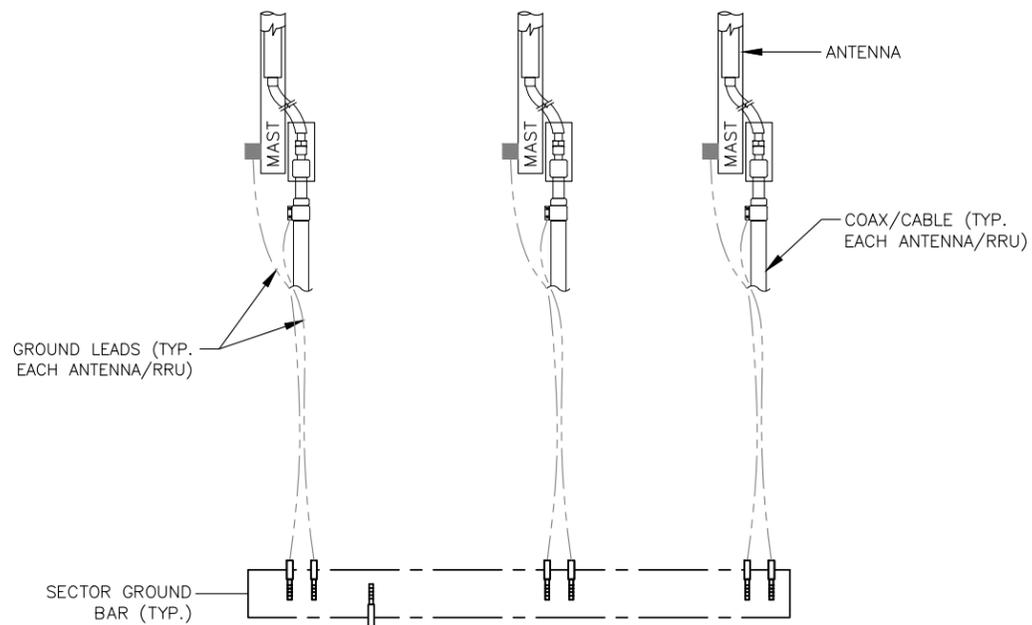
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TITLE:

GROUNDING &
CONDUIT DETAILS

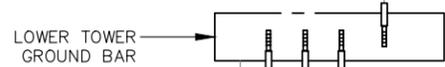
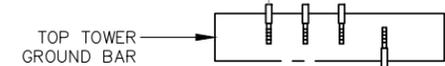
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JOB/FILE NUMBER: 1110.034

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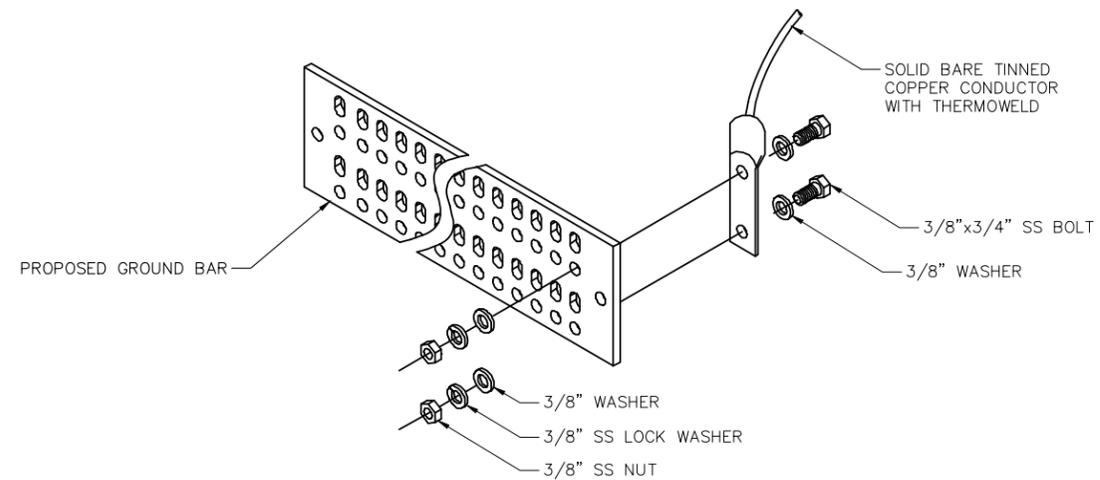


DETAIL SCHEMATIC IN NATURE ONLY.
REFERENCE CURRENT RFDS FOR EXACT
NUMBER OF ANTENNAS, RRU's, ETC.



#2 AWG BARE, TINNED, SOLID
COPPER GROUND LEAD, IN 3/4" PVC
CONDUIT, EXOTHERMICALLY BONDED
TO EXISTING TOWER GROUND RING

ANTENNA GROUNDING DETAIL
NOT TO SCALE

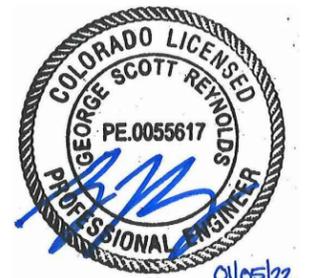


TYP. GROUND BAR CONNECTION DETAIL
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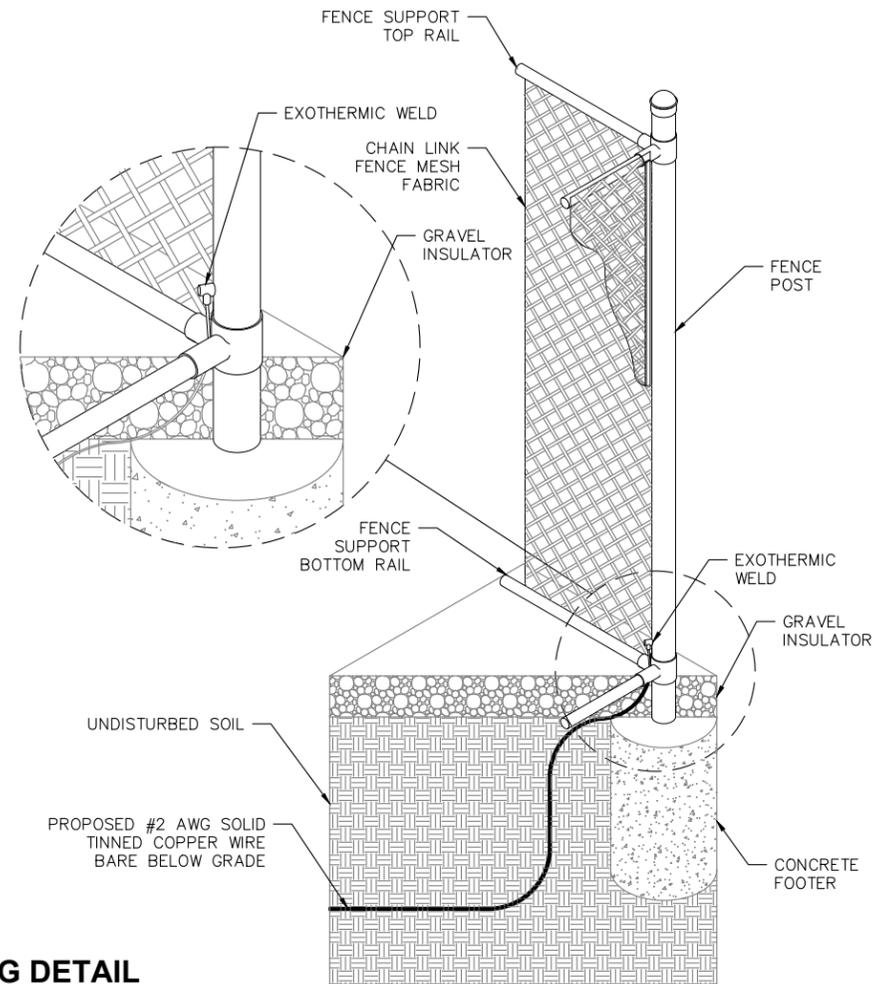
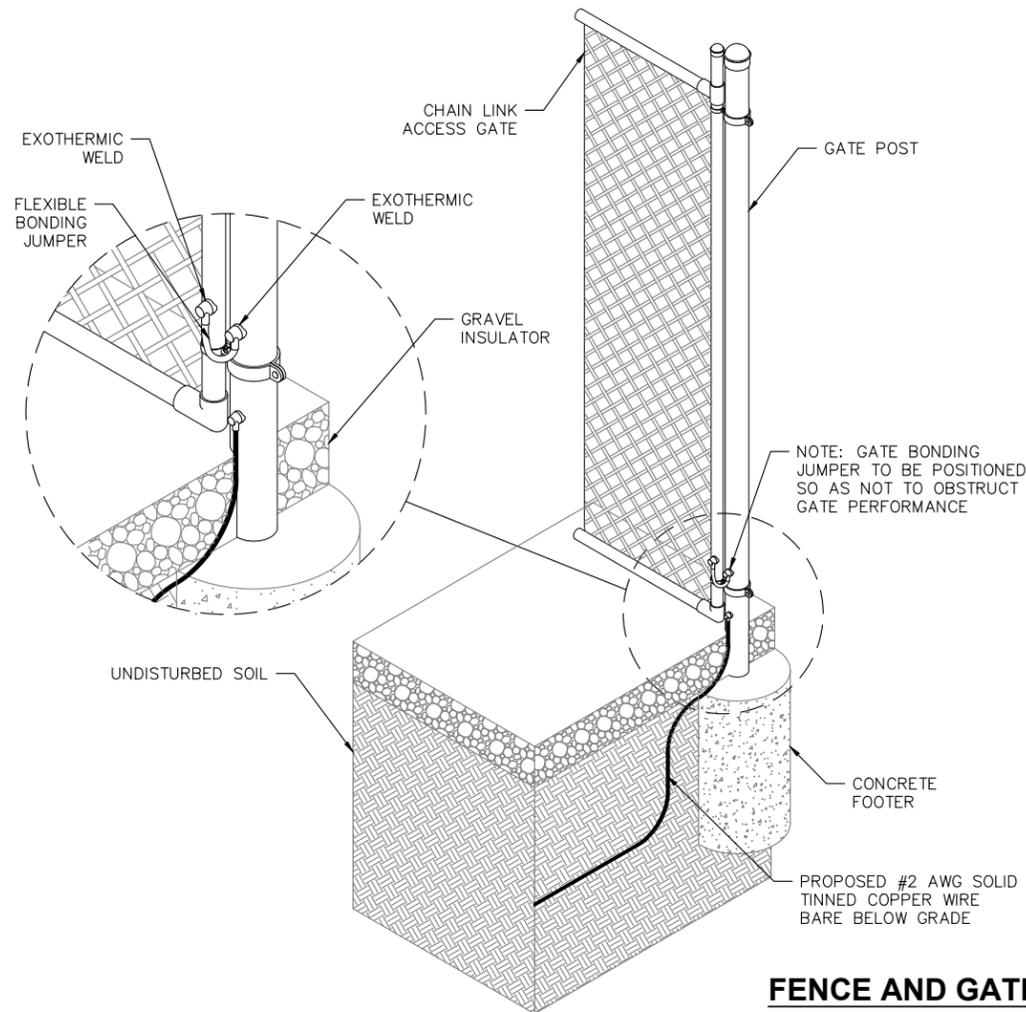
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GROUNDING DETAILS

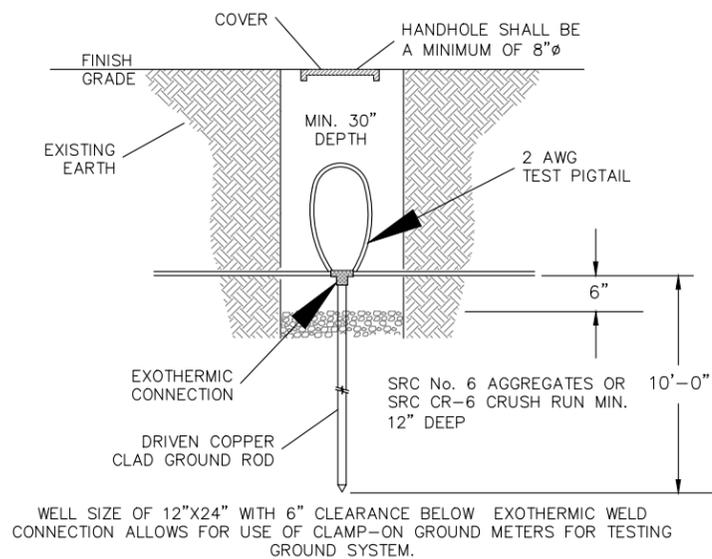
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JOB/FILE NUMBER: 1110.034

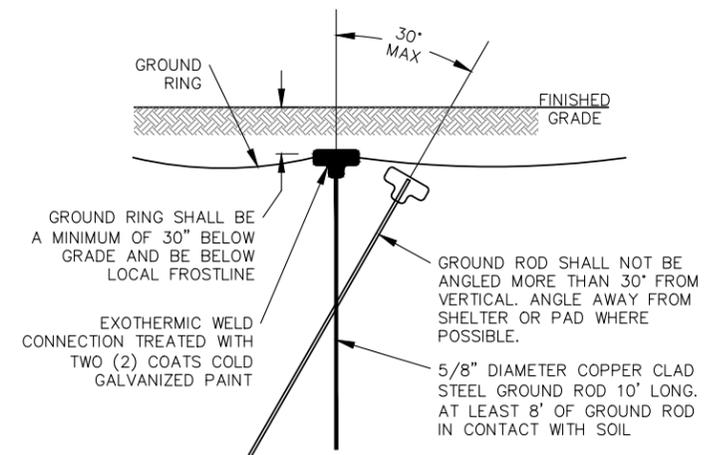
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FENCE AND GATE GROUNDING DETAIL
NOT TO SCALE



GROUND ROD TEST WELL DETAIL
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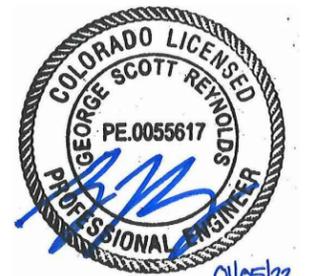


GROUND ROD DETAIL
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JOB/FILE NUMBER: 1110.034