



WELLSVILLE
MONOPOLE TOWER
CONSTRUCTION DRAWINGS

SITE ADDRESS

TBD
SALIDA, CO 81201

SITE COORDINATES

LATITUDE: LONGITUDE:
38° 29' 31.475" N* 105° 54' 47.328" W*
*(1A CERTIFICATE)

PROJECT TEAM



KIMLEY HORN AND ASSOCIATES, INC.
6200 SOUTH SYRACUSE WAY, SUITE #300
GREENWOOD VILLAGE, CO 80111
ATTN: MATT FLECK - (720) 647-6159



VERIZON WIRELESS
10000 PARK MEADOWS DRIVE, SUITE 200
LONE TREE, CO 80124

RF ENGINEER:
KRAIG CLARK
KRAIG.CLARK@VERIZONWIRELESS.COM

CONSTRUCTION:
PHIMPHA KEOPITHOUNE
CONSTRUCTION ENGINEER
PHIMPHA.KEOPITHOUNE@VERIZONWIRELESS.COM

VZW REAL ESTATE:
MAUREEN LOPEZ
MAUREEN.LOPEZ@VERIZONWIRELESS.COM

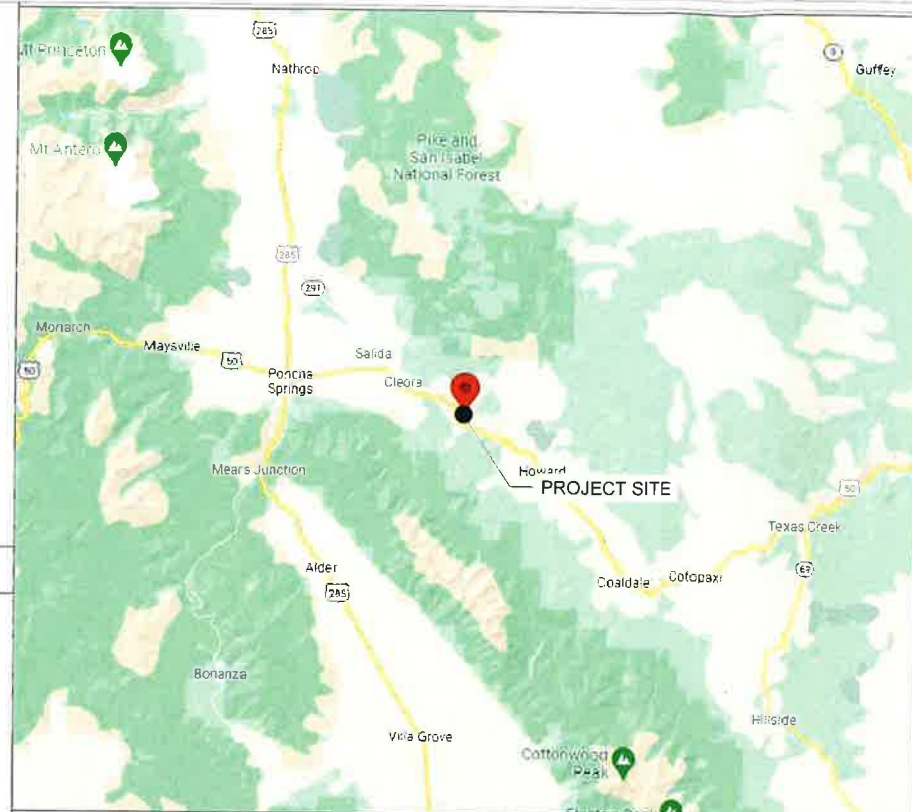
SITE ACQUISITION:
HERB QUINTANA
KAPPA CONSULTING
HERB@Q3CONSULTING.COM

PROJECT INFORMATION

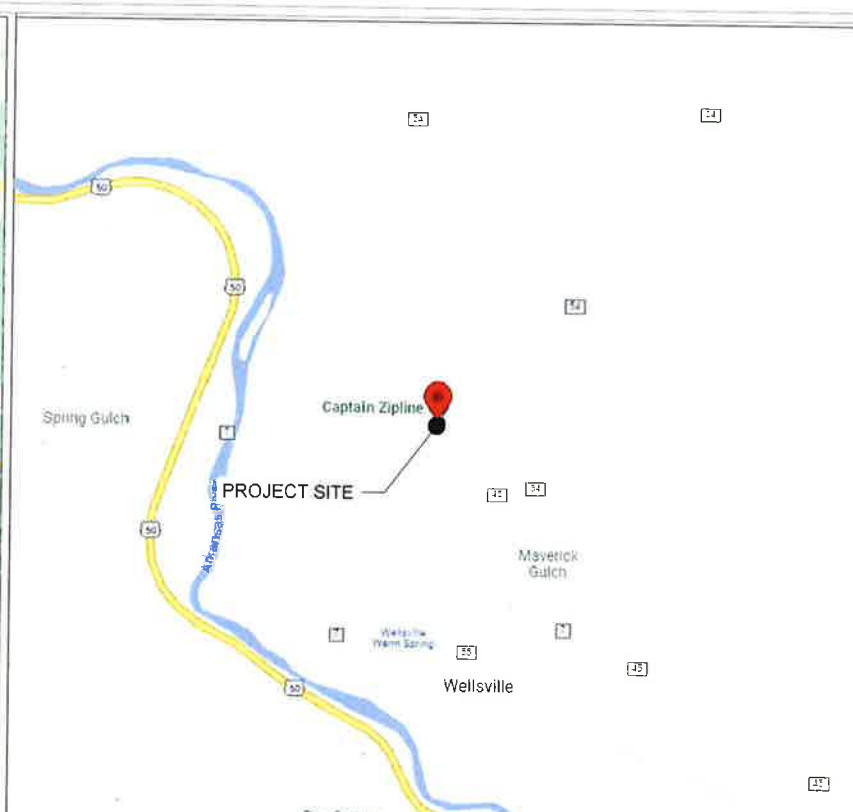
JURISDICTION: FREMONT COUNTY
ZONING: I - INDUSTRIAL
PARCEL NUMBER: 3809180000004
ELEVATION: (NAVD 88) 7011.3'
STRUCTURE TYPE: MONOPOLE TOWER
STRUCTURE HEIGHT: 45'-0", 49'-0" TOP OF APPURTENANCES
ANTENNA RAD CENTER: 43'-9" (AIR 6419), 41' (PANELS), 33' (MICROWAVE)
APPLICANT: VERIZON WIRELESS
ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC.
ENGINEERING CONTACT: MATT FLECK
6200 SOUTH SYRACUSE WAY, SUITE #300
GREENWOOD VILLAGE, CO 80111
(720) 647-6159

CODE ANALYSIS

BUILDING CODE: IBC 2018
ELECTRICAL CODE: NEC 2020
FIRE SAFETY CODE: IFC 2018
USE GROUP: U-UTILITY
CONSTRUCTION TYPE: IIB



REGIONAL MAP



VICINITY MAP

SHEET INDEX

NAME	DESCRIPTION	NAME	DESCRIPTION
T-1	TITLE SHEET	G-1	GROUNDING NOTES
N-1	GENERAL NOTES I	G-2	GROUNDING PLAN
N-2	GENERAL NOTES II	G-3	GROUNDING DETAILS
N-3	GENERAL NOTES III	G-4	GROUNDING DETAILS
C-1	OVERALL SITE PLAN	GD-1	SITE GRADING PLAN
C-2	SITE PLAN	S-0	GENERAL STRUCTURAL NOTES
C-3	COMPOUND PLAN DETAIL	S-1	WALK-IN CABINET FOUNDATION
C-4	PROPOSED ELEVATION	LS-1	SURVEY BOUNDARY
C-5	EQUIPMENT SHELTER PLAN	LS-2	SURVEY DETAIL
C-6	EROSION CONTROL PLAN	LS-3	SURVEY DETAIL
C-7	ACCESS ROAD DETAILS		
C-8	COMPOUND FENCE DETAILS		
C-9	ICE BRIDGE DETAILS		
C-10	TRENCHING DETAIL		
C-11	SIGNAGE DETAILS		
C-12	GENERATOR DETAILS		
C-13	GENERATOR PAD DETAILS		
A-1	ANTENNA LAYOUT & MOUNTING PLAN		
A-2	CABLE DIAGRAM & SCHEDULE		
A-3	DUAL ANTENNA MOUNT DETAILS		
E-1	ELECTRICAL NOTES		
E-2	OVERALL UTILITY PLAN		
E-3	COMPOUND UTILITY SERVICE PLAN		
E-4	METER RACK DETAILS		
E-5	ELECTRICAL SINGLE LINE DIAGRAM		
E-6	PANEL SCHEDULE		

PROJECT SUMMARY

- THIS PROJECT CONSISTS OF THE INSTALLATION OF:
- INSTALL (1) NEW MONOPOLE, ANTENNA MOUNTS, AND FOUNDATION
 - INSTALL (6) NHH-45C-R2B ANTENNAS
 - INSTALL (3) AIR 6419 ANTENNAS
 - INSTALL (3) 4490 RADIOS
 - INSTALL (3) 4890 RADIOS
 - INSTALL (1) 6627 OVP
 - INSTALL (2) 6X12 HYBRID CABLES
 - INSTALL (1) NEW WALK-IN CABINET WITH ASSOCIATED EQUIPMENT
 - INSTALL 40KW DIESEL BACKUP GENERATOR
 - INSTALL NEW ICE BRIDGE
 - INSTALL NEW CEDAR FENCE COMPOUND
 - INSTALL (1) 2' MICROWAVE DISH WITH ASSOCIATED CABLING AND EQUIPMENT
 - IMPROVE EXISTING ACCESS ROAD WITHIN GRADING AREA
 - RUN NEW ELECTRIC CABLES AND OTHER ASSOCIATED UTILITIES TO THE PROJECT SITE AND PROPOSED POLE LOCATION

REFERENCED DOCUMENTS: INTEGRATED WEED
RFDS: 12/05/2023 EME: N/A MACRO CALC: N/A MANAGEMENT PLAN: 7/16/2024
VERIFY THE MOST CURRENT DOCUMENTS PRIOR TO CONSTRUCTION

DRIVING DIRECTIONS

- START FROM 10000 PARK MEADOWS DRIVE LONE TREE, CO 80124
- TURN LEFT ONTO PARK MEADOWS DR
- TURN RIGHT ONTO S YOSEMITE ST
- TURN LEFT TO MERGE ONTO CO-470 W
- MERGE ONTO CO-470 W
- TAKE EXIT 5A TO MERGE ONTO US-285 S/US HWY 285 S TOWARD FAIRPLAY
- CONTINUE ONTO US-285 S/US HWY 285 S
- TURN LEFT ONTO CO-291 S
- TURN LEFT ONTO US-50 E
- TURN LEFT ONTO CO RD 7
- TURN LEFT ONTO CO RD 45
- CONTINUE STRAIGHT ONTO ACCESS ROAD AFTER .4 MILES
- FOLLOW ACCESS ROAD RIGHT AFTER .2 MILES
- SITE WILL BE ON THE RIGHT IN 200 FEET



10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124



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GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV: DATE: DESCRIPTION: BY:

REV	DATE	DESCRIPTION	BY
3	02/05/23	REV: 45' TOWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSD
1	07/30/24	REV: TRANSPORT	WSD
0	06/20/24	WELLSVILLE CDs	WSG

EJZ MFF

196015070

FOR REVIEW

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

TITLE SHEET

T-1



GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR
CONTRACTOR: (CONSTRUCTION)
OWNER - VERIZON
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND VERIZON PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL BE FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. 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.
17. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A 0T 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.

22. THE AREAS OF THE OWNER'S 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.
23. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
24. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
25. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION.
26. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
27. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
28. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
29. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER.
30. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
31. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH.
32. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED. OR WHERE CODES OR REGULATIONS TAKE PRECEDENCE.
33. ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
34. ALL EQUIPMENT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THE FINAL LOCATION ARE TO BE APPROVED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK AND CLEARANCE REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.
35. ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS. CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF GOVERNING AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
36. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION. TWO COPIES OF REDLINED DRAWINGS WILL BE PROVIDED TO CONSTRUCTION MANAGER.
37. PHOTOS SHALL BE TAKEN OF THE SITE AT THE REQUEST OF THE CONSTRUCTION MANAGER. ALL WORK TO BE BURIED OR HIDDEN MUST BE PHOTO GRAPHED AND INSPECTED BY THE CONSTRUCTION MANAGER PRIOR TO BACKFILLING ETC. UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER.

CODES:

1. AT A MINIMUM, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. 2018 VERSION OF THE INTERNATIONAL BUILDING CODE.
 - B. FOR ELECTRICAL REFERENCE AND COORDINATE WITH 2020 NATIONAL ELECTRIC CODE.
 - C. FOR VERIZON STANDARDS USE NETWORK STANDARD VERIZON GUIDELINES.
 - D. AMERICAN CONCRETE INSTITUTE. ACI 318-19, STANDARD BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - E. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 15TH EDITION, MANUAL OF STEEL CONSTRUCTION.
 - F. AMERICAN WELDING SOCIETY, AWS D1.4 2018 EDITION, STRUCTURAL WELDING CODE.
 - G. STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS: ANSI/TIA-222-H-2017
 - H. FIRE SAFETY CODE IFC 2018

COAXIAL CABLE NOTES:

1. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
2. CONTRACTOR SHALL VERIFY THE DOWN-TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
3. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
4. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'-0" OC.
5. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
6. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE.

GENERAL CABLE & EQUIPMENT NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
2. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS / DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION / ROUTING.
4. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
5. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - A. TEMPERATURE SHALL BE ABOVE 50° F.
 - B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
6. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
7. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.

STRUCTURAL STEEL NOTES:

1. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
5. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
7. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB, ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH.

SITE WORK:

1. RELATED WORK: CONSTRUCTION OF FOUNDATIONS, GROUNDING SYSTEM, CONDUIT HANGERS, RACEWAYS, CABLE TRAYS, PULL BOX'S, UTILITY TRENCHES AND ANOTHER MEANS AND METHODS REQUIRED FOR THE APPLICATION.
2. QUALITY ASSURANCE:
 - A. GRASS SEEDS SHALL BE APPLIED AND MAINTAINED AS RECOMMENDED BY THE CITY & OR PROPERTY OWNER.
 - B. VEGETATION LANDSCAPING WILL BE PLACED AND MAINTAINED, IF REQUIRED BY THE CITY & OR PROPERTY OWNER.
3. ALL FILL DIRT SHALL BE CLEAN AND NATURAL, FREE FROM ANY DELETERIOUS MATERIALS, ROOTS, ICE, SNOW, AND RUBBISH.
4. ALL FILL OR STONE WILL BE PLACED IN MAXIMUM 8" LIFTS PRIOR TO COMPACTING.
5. THE CONTRACTOR IS RESPONSIBLE TO ENSURE GROWTH OF THE SEED LANDSCAPING AREAS BY WATERING, STRAW, MULCH, NET, AND OTHER PROPER LANDSCAPING METHODS AS DEEMED NECESSARY.
6. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. NO STANDING WATER OR PONDING SHALL BE PRESENT ON SITE DUE TO CONSTRUCTION. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTORS EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND FIBER LINES.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING, SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
9. ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FT. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.



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SUITE 200, LOVE TREE, CO 80124



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EJZ **MFF**

196015070

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

GENERAL NOTES I

N-1

UTILITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PROJECT PERMITS ASSOCIATED WITH CONSTRUCTION AND RELATED ACTIVITIES SUCH AS STREET OCCUPANCY, STREET CUT, CONSTRUCTION EROSION CONTROL, AND PARK PERMITS.
2. THE CONTRACTOR SHOULD REMOVE MATERIALS AND EQUIPMENT FROM THE RIGHT-OF-WAY ON A DAY BY DAY OPERATION.
3. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE COPY OF THE APPROVED PLANS, SPECIFICATIONS, AND STANDARDS ON THE JOB SITE AT ALL TIMES.
4. THE CONTRACTOR SHALL NOTIFY PUBLIC WORKS RIGHT OF WAY FOR ANY CONSTRUCTION INSPECTIONS TWO DAYS BEFORE COMMENCING WORK IN THE ROW, AND UPON COMPLETION OF THE WORK.
5. ALL WORK, INCLUDING CORRECTION WORK, IS SUBJECT TO NOTIFICATION AND INSPECTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY CURRENT OSHA REGULATIONS. CONTRACTOR SHALL ACCEPT SOLE LIABILITY AND RESPONSIBILITY FOR COMPLYING WITH ALL CURRENT OSHA REGULATIONS APPLICABLE TO ALL WORK IN PLANS.
7. UTILITY PLAN REVIEW AND APPROVAL DOES NOT CONSTITUTE APPROVAL FOR ANY WORK ON, OVER, IN, OR UNDER PRIVATE PROPERTY.
8. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULING. SHOULD ANY UTILITY CONFLICTS OR INTERRUPTIONS IN SERVICE BE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY SCHEDULING.
9. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED SEPARATION TO UTILITIES AT ALL TIMES IN ACCORDANCE WITH CITY STANDARDS.

HOLES, SLEEVES AND OPENINGS:

1. PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH EXISTING AND SURROUNDING SURFACES. MAINTAIN INTEGRITY FOR ALL FIRE AND SMOKE RATED BARRIERS USING APPROVED FIRE STOPPING SYSTEMS.
2. WHEN CUTTING HOLES, SLEEVES, AND OPENINGS CONTRACTOR SHALL NOT CUT, DAMAGE OR DISTURB STRUCTURAL ELEMENT OR REINFORCING STEEL UNLESS APPROVED IN WRITING BY THE PROJECTS STRUCTURAL ENGINEER.
3. CONDUIT PENETRATIONS CORE DRILLING HOLES SHALL BE SIZED SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED, PROVIDE SLEEVE IN ROUGH OPENING, SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND THE SLEEVE TO MATCH SURROUNDING SURFACES.

RACEWAY NOTES:

1. CONDUIT AND CONDUIT FITTINGS SHALL MEET ANSI AND NEC STANDARDS FOR MATERIALS AND WORKMANSHIP AND SHALL BE UL LISTED.
 - A. RIGID STEEL CONDUIT (FOR ALL ABOVE GRADE WORK) SHALL CONFORM TO ANSI C80-1 AND THE REQUIREMENTS OF NEC PARAGRAPH 346 AND BE STANDARD WEIGHT, MILD RIGID STEEL, HOT DIP GALVANIZED WITH INSIDE AND OUTSIDE FINISHED WITH A PROTECTIVE ZINC COATING. COUPLING, ELBOWS AND BENDS SHALL MEET THESE SAME REQUIREMENTS. FITTINGS SHALL BE OF THE GALVANIZED IRON OR STEEL THREADED TYPE.
 - B. PVC CONDUIT (FOR UNDERGROUND WORK) SHALL CONFORM TO UL STANDARD 651-89 AND THE REQUIREMENTS OF NEC, PARAGRAPH 347. CONDUIT SHALL BE HEAVY WALL TYPE, SCHEDULE 80, AND SUNLIGHT RESISTANT. FITTINGS SHALL BE OF THE UNTHREADED SOLVENT CEMENT TYPE.
 - C. EMT CONDUIT (FOR USE BEHIND WALLS OR ABOVE SUSPENDED CEILINGS ONLY), ELECTRIC METALLIC TUBING SHALL CONFORM TO ANSI C80.3 AND THE REQUIREMENTS OF NEC, PARAGRAPH 348 AND BE PROTECTED ON EXTERIOR WITH A ZINC COATING AND ON INTERIOR SURFACES WITH EITHER A ZINC COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ZINC COATED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH, SIZES NOT SHOWN ON DRAWINGS SHALL BE PER NEC.
2. ALL SPARE CONDUITS SHALL HAVE A METALLIC OR MULL TAPE.
3. CONDUIT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND IN ACCORDANCE WITH THE NEC.
4. UNDERGROUND CONDUITS & ENCLOSURES:
 - A. INSTALL A WARNING TAPE TWELVE INCHES ABOVE EACH CONDUIT OR SET OF CONDUITS.
 - B. IDENTIFY EACH CONDUIT AT BOTH ENDS.
 - C. INSTALL A MINIMUM OF 36 INCHES BELOW THE FINISHED GRADE, OR DEEPER IF NOTED ON PLAN DRAWINGS.
 - D. SLOPE A MINIMUM OF 4 INCHES PER 100 FEET TO DRAIN AWAY FROM BUILDINGS AND EQUIPMENT.
 - E. USE MANUFACTURED ELECTRICAL PVC ELBOWS AND FITTINGS FOR BELOW GRADE BENDS.
 - F. MAKE JOINTS AND FITTINGS WATERTIGHT ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - G. INSTALL A COUPLING BEFORE EACH WALL PENETRATION
 - H. RESTORE SURFACE FEATURES TO EXISTING CONDITIONS DISTURBED BY EXCAVATION, TRENCHING, & DIRECTIONAL BORING IN ALL AREAS.
 - I. ENCLOSURES IN DRY AREA/LOCATION SHALL BE NEMA 1.
 - J. ENCLOSURES IN WET AREA/LOCATION SHALL BE NEMA 5.

EROSION CONTROL NOTES:

THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL POTENTIAL POLLUTANTS GENERATED DURING DEMOLITION OR CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT, BE PREVENTED FROM DISCHARGE TO STORMWATER CONVEYANCE SYSTEMS IN THE VICINITY OF THIS PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, RECEIVING WATERS, WATERWAYS, WETLANDS, AND OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
2. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT HAVE BEEN DISCHARGED TO OR, ACCUMULATE IN THE FLOW LINES OF STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAYS OF THE CITY, AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.
3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY.
4. THE USE OF REBAR TO ANCHOR BEST MANAGEMENT PRACTICES, OTHER THAN PORTABLE TOILETS, IS PROHIBITED.
5. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) ON SITE DURING CONSTRUCTION:
 - A. **VEHICLE TRACKING CONTROL:** THIS BMP IS REQUIRED AT ALL ACCESS FOR INGRESS/EGRESS FROM OFF-SITE IMPERVIOUS SURFACES TO CONSTRUCTION SITE PERVIOUS AREAS THAT ARE USED BY VEHICULAR TRAFFIC OR CONSTRUCTION EQUIPMENT.
 - B. **INLET PROTECTION:** THIS BMP IS REQUIRED ON ALL EXISTING OR PROPOSED STORM SEWER INLETS IN THE VICINITY OF THE CONSTRUCTION SITE THAT MAY RECEIVE SITE RUNOFF. THE BMP MUST BE APPROPRIATE TO THE TYPE OF STORM INLET AND APPROPRIATE FOR THE GROUND SURFACE AT THE INLET.
 - C. **INTERIM SITE STABILIZATION:** THIS BMP IS REQUIRED TO PROVIDE A MEASURE FOR PREVENTING THE DISCHARGE OF SEDIMENT FROM CONSTRUCTION SITES WHERE OVERLOT GRADING OR OTHER SITE DISTURBANCE HAS OCCURRED. THIS BMP IS PARTICULARLY NECESSARY ON SITES WHERE CONSTRUCTION ACTIVITIES/DISTURBANCE WILL BE LIMITED TO SMALL AREAS OF THE PROJECT SITE. ACCEPTABLE BMPs INCLUDE:
 - i. PRESERVING EXISTING VEGETATION
 - ii. SEEDING AND PLANTING
 - iii. MULCHING
 - iv. MULCHING AND SEEDING
 - v. TEMPORARY/PERMANENT RE-VEGETATION OPERATIONS
 - vi. CHEMICAL SOIL STABILIZER APPLICATION (REQUIRES WMD APPROVAL)
 - D. **WASTE MANAGEMENT CONTAINMENT:** THIS BMP REQUIRES THAT ALL CONSTRUCTION WASTES, FUELS, LUBRICANTS, CHEMICAL WASTES, TRASH, SANITARY WASTES, CONTAMINATED SOILS OR DEBRIS SHALL BE CONTAINED ON SITE. PROTECTED FROM CONTACT WITH PRECIPITATION OR SURFACE RUNOFF, PERIODICALLY REMOVED FROM THE CONSTRUCTION SITE, AND PROPERLY DISPOSED OF.
 - E. **SPILL PREVENTION CONTAINMENT:** THIS BMP DEFINES THE MEASURES PROPOSED FOR PREVENTING, CONTROLLING, OR CONTAINING SPILLS OF FUEL, LUBRICANTS, OR OTHER POLLUTANTS; AND PROTECTING POTENTIAL POLLUTANTS FROM CONTACT WITH PRECIPITATION OR RUNOFF.
 - F. **CHUTE WASHOUT CONTAINMENT:** WATER USED IN THE CLEANING OF CEMENT TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED, BERMED CONTAINMENT AREA ON THE JOB SITE. THE REQUIRED CONTAINMENT AREA IS TO BE BERMED SO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED INTO THE CONTAINMENT AREA SHALL BE ALLOWED TO INFILTRATE OR EVAPORATE. DRIED CEMENT WASTE IS REMOVED FROM THE CONTAINMENT AREA AND PROPERLY DISPOSED OF.
 - i. THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
 - G. **SWEEPING:** THIS BMP REQUIRES THAT IMPERVIOUS SURFACES WHICH ARE ADJACENT TO OR CONTAINED WITHIN CONSTRUCTION SITES BE SWEEPED ON A DAILY BASIS OR AS NEEDED DURING THE DAY WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.
 - H. **PERIMETER CONTROL:** BMP REQUIRES THAT A CONSTRUCTION SITE INSTALL A PERIMETER CONTROL MEASURE ALONG THE EDGE OF THE CONSTRUCTION SITE, TO PREVENT, OR FILTER THE DISCHARGE OF SURFACE RUNOFF FROM THE CONSTRUCTION SITE. THE TYPE OF PERIMETER CONTROL USED SHALL BE DETERMINED BASED ON SITE CONDITIONS AND LOCATION. MAINTENANCE AND REPAIR OF THE CONTROL MEASURE SHALL OCCUR AS NEEDED, IN A TIMELY MANNER.

EROSION CONTROL NOTES (CONTINUED):

- I. **STOCK PILES:** SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. STABILIZATION OF STOCKPILE LOCATED WITHIN 100 FEET OF RECEIVING WATERS, OR SLOPES 3 TO 1 OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING STOCKPILE CONSTRUCTION. STABILIZATION AND PROTECTION OF THE STOCKPILE MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING: MULCHING, TEMPORARY/PERMANENT REVEGETATION OPERATIONS, CHEMICAL SOIL STABILIZER APPLICATION, OR EROSION CONTROL MATTING/GEOTEXTILES. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF RECEIVING WATERS, A DRAINAGEWAY OR THE SITE PERIMETER, ADDITIONAL SEDIMENT CONTROLS SHALL BE REQUIRED.
 - J. **SAW CUTTING OPERATIONS:** THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED.
6. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATING CONDITION FOR THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.

DEMOLITION:

1. EXISTING WORK SITE CONDITIONS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, WORK DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING WORK.
2. AT THE END OF EACH WORK DAY AND DURING INCLEMENT WEATHER, CLOSE ALL EXTERIOR OPENINGS WITH WEATHERPROOF COVER.
3. DEMOLITION SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST. REMOVE DEBRIS AND RUBBISH FROM THE SITE DAILY. DO NOT ALLOW DEBRIS AND TRASH TO ACCUMULATE ON SITE.
4. INSPECTIONS: REQUIRED BUILDING INSPECTORS SHALL BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS. UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
5. THE CONTRACTOR SHALL ORDER A FULL UTILITY LOCATE PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL UTILITY SERVICE CONNECTION LOCATIONS AND VERIFY ALL DIMENSIONS AND NOTES PRIOR TO PROCEEDING WITH WORK. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, IRRIGATION, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK AREA SHALL BE PROTECTED AT ALL TIMES.
7. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, UTILITIES SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND OR CITY.
9. THE CONTRACTOR SHALL COORDINATE LOCATION OF POLE, TOWER, AND EQUIPMENT WITH THE SURVEYOR OF RECORD OR ENGINEER PRIOR TO COMMENCING WORK.
10. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS AS WELL AS TO PREVENT POOLING.
11. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, NOR SHALL ANY FROZEN MATERIALS. SNOW OR ICE BE PLACED IN FILL OR EMBANKMENT.
12. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
13. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. ALL DISTURBED LANDSCAPING SHALL BE REPLACED, RESERVED, AND REGROWN TO MATCH THE ORIGINAL CONDITIONS. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
14. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER RUBBISH SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
14. LANE CLOSURES, IF REQUIRED, OR OBSTRUCTIONS SHALL BE PROPERLY COORDINATED WITH CITY R.O.W.



10000 PARK MEADOWS DRIVE,
SUITE 200, LONG TREE, CO 80124



6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV	DATE	DESCRIPTION	BY
3	02/05/25	REV: AS' POWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSO
1	07/30/24	REV: TRANSPORT	WSO
0	06/20/24	WELLSVILLE CD's	WSG

EJZ MFF

196015070

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

GENERAL NOTES II

NOXIOUS WEED MANAGEMENT NOTES:

1. THE VICINITY OF THE PROPOSED PLANNING AREA IS A KNOWN LOCATION OF A RARE LIST A NOXIOUS WEED SPECIES; ELONGATED MUSTARD. THE STATE REQUIRES THIS SPECIES TO BE ERADICATED WHEN IDENTIFIED, AS THE ACTIVITY WILL BE NEAR THIS SENSITIVE AREA, EXTREME CAUTION WILL NEED TO BE APPLIED.
2. MONITORING FOR ELONGATED MUSTARD SPECIES ALONG USED ROADS FOR THIS PROJECT SHOULD BE PERFORMED REGULARLY.
3. ALL SOIL CURRENTLY ON SITE MUST STAY WITHIN THE PROJECT AREA OR MUST BE DISPOSED OF IN AN APPROVED LOCATION BY FREMONT COUNTY WEED MANAGEMENT.
4. SOIL MOVED OFF SITE SHOULD BE FOLLOWED UP WITH MONITORING.
5. CLEANING MACHINERY USED ON SITE WILL HELP AVOID MOVEMENT AND SPREAD OF SEED DISBURSEMENT.
6. HEAVY TRAFFIC AND SOIL DISTURBANCES HAVE THE POSSIBILITY TO PROMOTE NEW PLANT SPECIES WHETHER DESIRABLE OR NON-DESIRABLE.
7. THIS AREA IS ALSO AN ACTIVE GROUP PROJECT AREA TO TREAT THE ELONGATED MUSTARD WITH AN AERIAL APPLICATOR ANNUALLY. IT IS HIGHLY ADVISABLE TO PARTICIPATE IN THIS PROJECT EITHER FROM FREMONT COUNTY WEED MANAGEMENT OR CHAFFEE COUNTY WEED MANAGEMENT.
8. FURTHER INFORMATION ABOUT ELONGATED MUSTARD AND CONTROL RECOMMENDATIONS ARE LISTED IN THE COLORADO DEPARTMENT OF AGRICULTURE "ELONGATED MUSTARD FACT SHEET" FOR REFERENCE.
9. ANY OTHER NOXIOUS WEED SPECIES IDENTIFIED ON THE PROPERTY WILL NEED TO BE MANAGED AS NECESSARY BY THE LANDOWNER.
10. EARLY DETECTION IS KEY TO STAYING ON TOP OF INFESTATIONS BEFORE THEY APPEAR AND KEEPS A HEALTHY SITE.
11. IF ANY OTHER LIST A OR LIST B SPECIES ARE OBSERVED AND FURTHER ASSESSMENT IS NEEDED, FREMONT COUNTY WEED MANAGEMENT CAN BE USED AS A RESOURCE FOR FURTHER INFORMATION OR HELP IN CONTROLLING NOXIOUS WEEDS (719-276-7317)



10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

PLANS PREPARED BY:



6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV. DATE DESCRIPTION

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV. 45" TOWER	WBS
2	08/29/24	REV. VZW COMMENTS	WSG
1	07/30/24	REV. TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: CHECKED BY:

EJZ **MFF**

PROJECT NUMBER

196015070

ENGINEER SEAL



PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

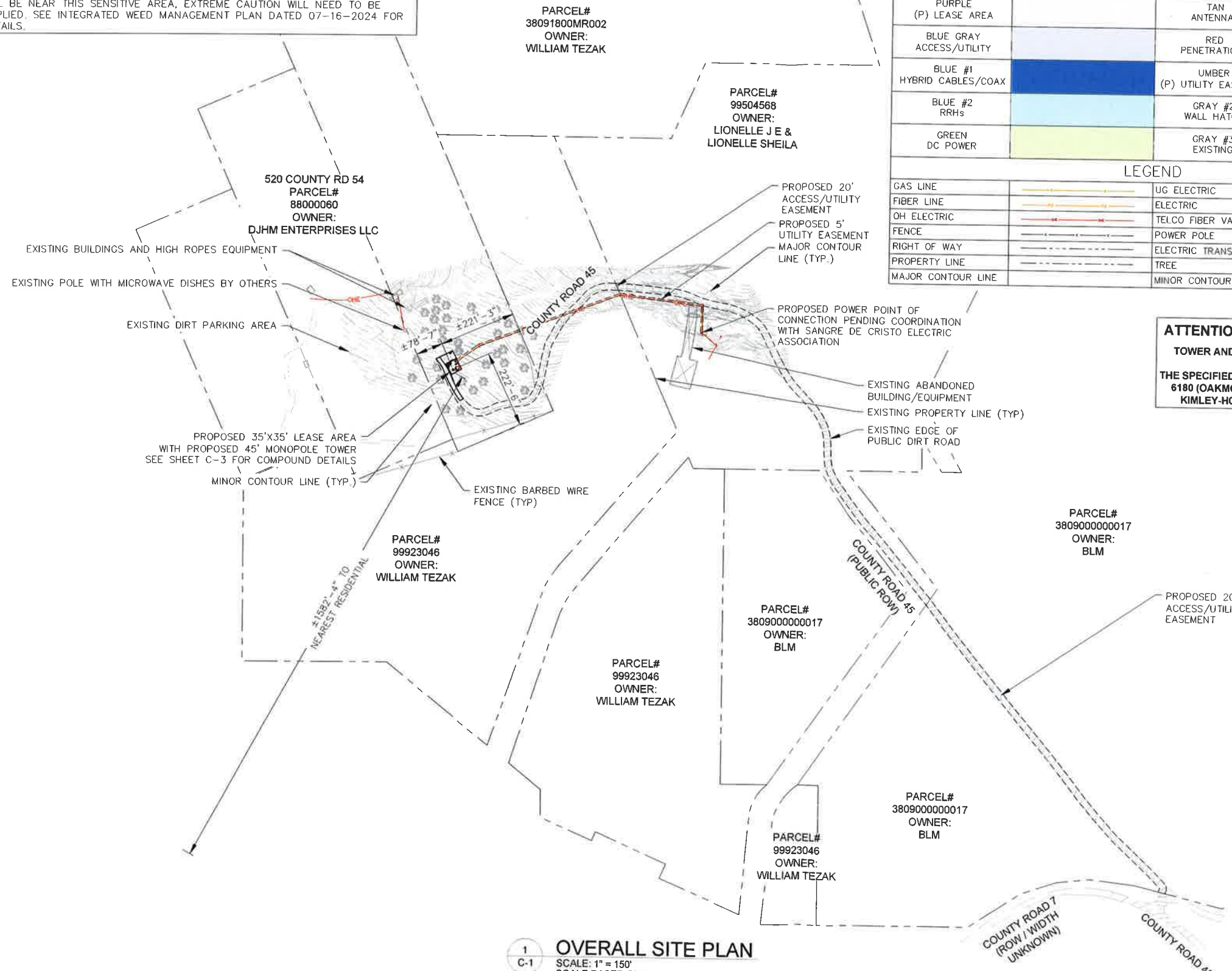
GENERAL NOTES III

SHEET NUMBER

N-3

NOTE:

- THE VICINITY OF THE PROPOSED PLANNING AREA IS A KNOWN LOCATION OF A RARE LIST A NOXIOUS WEED SPECIES, ELONGATED MUSTARD. THE STATE REQUIRES THIS SPECIES BE ERADICATED WHEN IDENTIFIED. AS THE ACTIVITY WILL BE NEAR THIS SENSITIVE AREA, EXTREME CAUTION WILL NEED TO BE APPLIED. SEE INTEGRATED WEED MANAGEMENT PLAN DATED 07-16-2024 FOR DETAILS.



COLOR STANDARDS			
GRAY #1 (E) EASEMENT		ORANGE FIBER	
PURPLE (P) LEASE AREA		TAN ANTENNAS	
BLUE GRAY ACCESS/UTILITY		RED PENETRATIONS	
BLUE #1 HYBRID CABLES/COAX		UMBER (P) UTILITY EASEMENT	
BLUE #2 RRHs		GRAY #2 WALL HATCH	
GREEN DC POWER		GRAY #3 EXISTING	
LEGEND			
GAS LINE		UG ELECTRIC	
FIBER LINE		ELECTRIC	
OH ELECTRIC		TELCO FIBER VAULT	
FENCE		POWER POLE	
RIGHT OF WAY		ELECTRIC TRANSFORMER	
PROPERTY LINE		TREE	
MAJOR CONTOUR LINE		MINOR CONTOUR LINE	

ATTENTION TO PROPERTY OWNER
 TOWER AND TOWER EQUIPMENT ARE TO BE PAINTED TO MATCH. THE SPECIFIED COLOR IS SHERWIN-WILLIAMS SW 6180 (OAKMOSS) EXTERIOR PAINT. CONTACT KIMLEY-HORN FOR ANY DISCREPANCIES.

verizon
 10000 PARK MEADOWS DRIVE,
 SUITE 200, LONE TREE, CO 80124

Kimley»Horn
 6200 SOUTH SYRACUSE WAY #300
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 PHONE (303) 228-2300
 WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WGB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

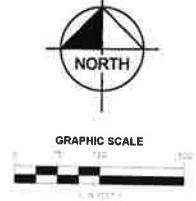
DRAWN BY: **EJZ** CHECKED BY: **MFF**
 PROJECT NUMBER: **196015070**

FOR REVIEW

PROJECT JURISDICTION:
WELLSVILLE
 TBD
 SALIDA, CO 81201
 FREMONT COUNTY

SHEET TITLE: **OVERALL SITE PLAN**
 SHEET NUMBER: **C-1**

1 C-1 OVERALL SITE PLAN
 SCALE: 1" = 150'
 SCALE BASED ON 24"X36" ONLY



NOTE: NEIGHBORING PARCEL LINE APPROXIMATED BASED OFF PUBLICLY AVAILABLE MAPS AND INFORMATION

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REV	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

EJZ MFF

196015070

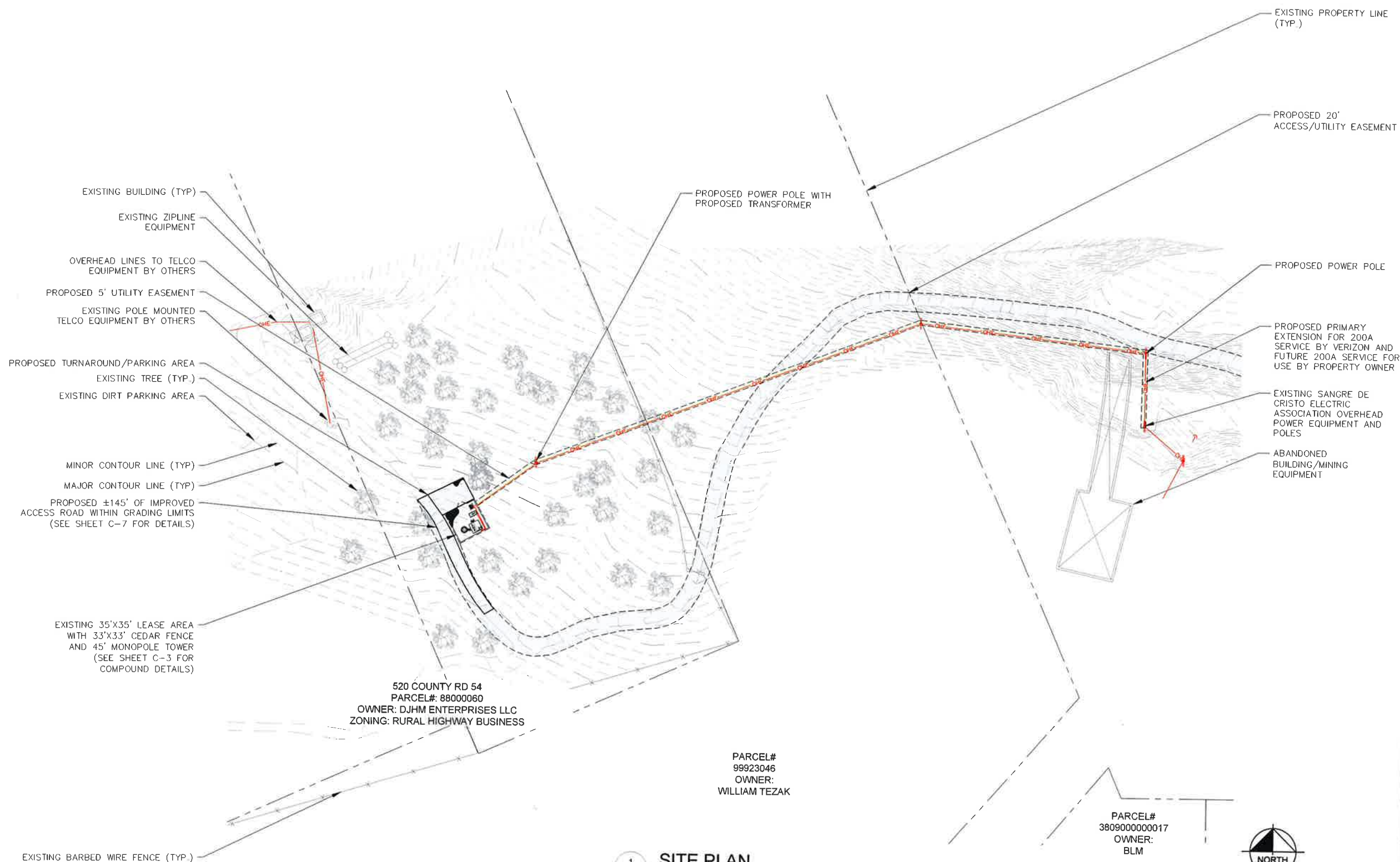
FOR REVIEW

WELLSVILLE

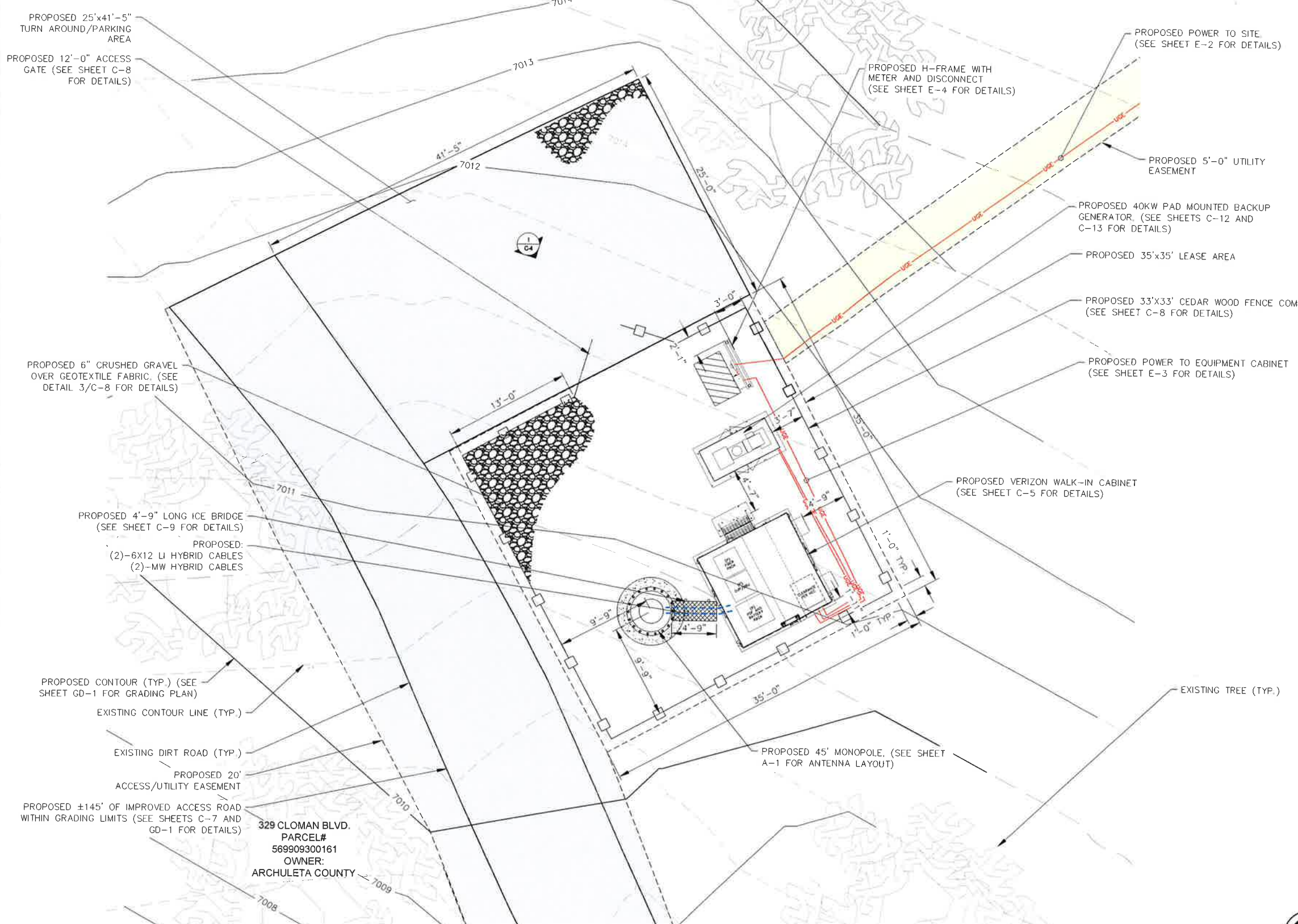
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FREMONT COUNTY

SITE PLAN

C-2



Know what's below.
Call before you dig.



1
C-3
ENLARGED SITE PLAN
SCALE: 1" = 10'
SCALE BASED ON 24"X36" ONLY

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10000 PARK MEADOWS DRIVE,
SUITE 300, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/04/25	REV: 45' TOWER	WBR
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

CREATED BY:	EJZ	CHECKED BY:	MFF
PROJECT NUMBER:	196015070		

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

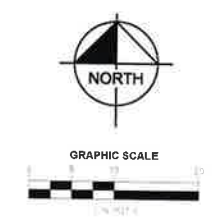
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

**COMPOUND
PLAN DETAIL**

SHEET NUMBER

C-3



verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

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6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
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REV. DATE DESCRIPTION

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDS	WSG

DRAWN BY: EJM CHECKED BY: MFF

PHOTO PROJECT NUMBER: 196015070

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

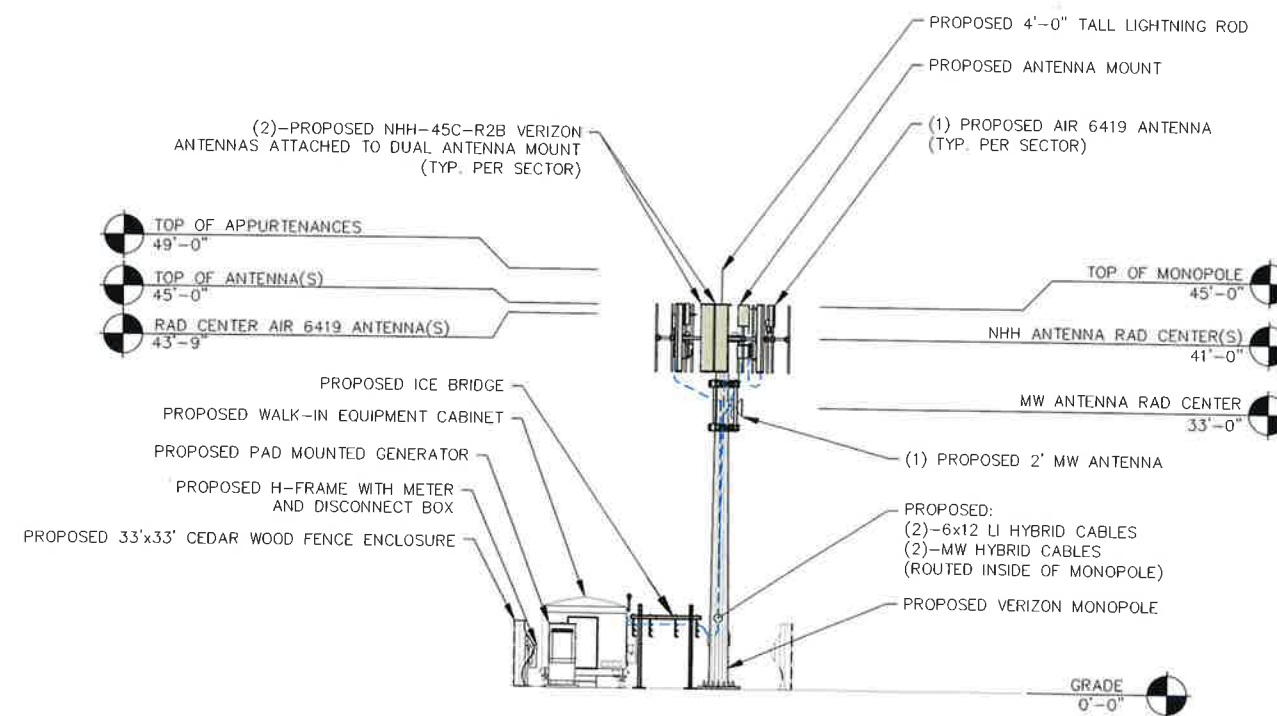
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

PROPOSED ELEVATION

SHEET NUMBER

C-4



1
C-4 **PROPOSED NORTHWEST ELEVATION**
SCALE: 1" = 10'
SCALE BASED ON 24"X36" ONLY

NOTE:

- PROPOSED MONOPOLE AND ALL PROPOSED ANTENNAS AND HARDWARE TO BE PAINTED TO MATCH IMMEDIATE SURROUNDINGS

ATTENTION TO PROPERTY OWNER
FOR ALL REFERENCES FOR PAINT TO MATCH.
THE SPECIFIED COLOR IS SHERWIN-WILLIAMS SW
6180 (OAKMOSS) EXTERIOR PAINT. CONTACT
KIMLEY-HORN FOR ANY DISCREPANCIES.



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WWW.KIMLEY-HORN.COM

REV: DATE: DESCRIPTION: BY:

3	02/05/25	REV: 45' TOWER	WSB
2	05/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: CHECKED BY:

EJZ **MFF**

PROJECT NUMBER:

196015070

ENGINEER SEAL

PROJECT INFORMATION:

WELLSVILLE

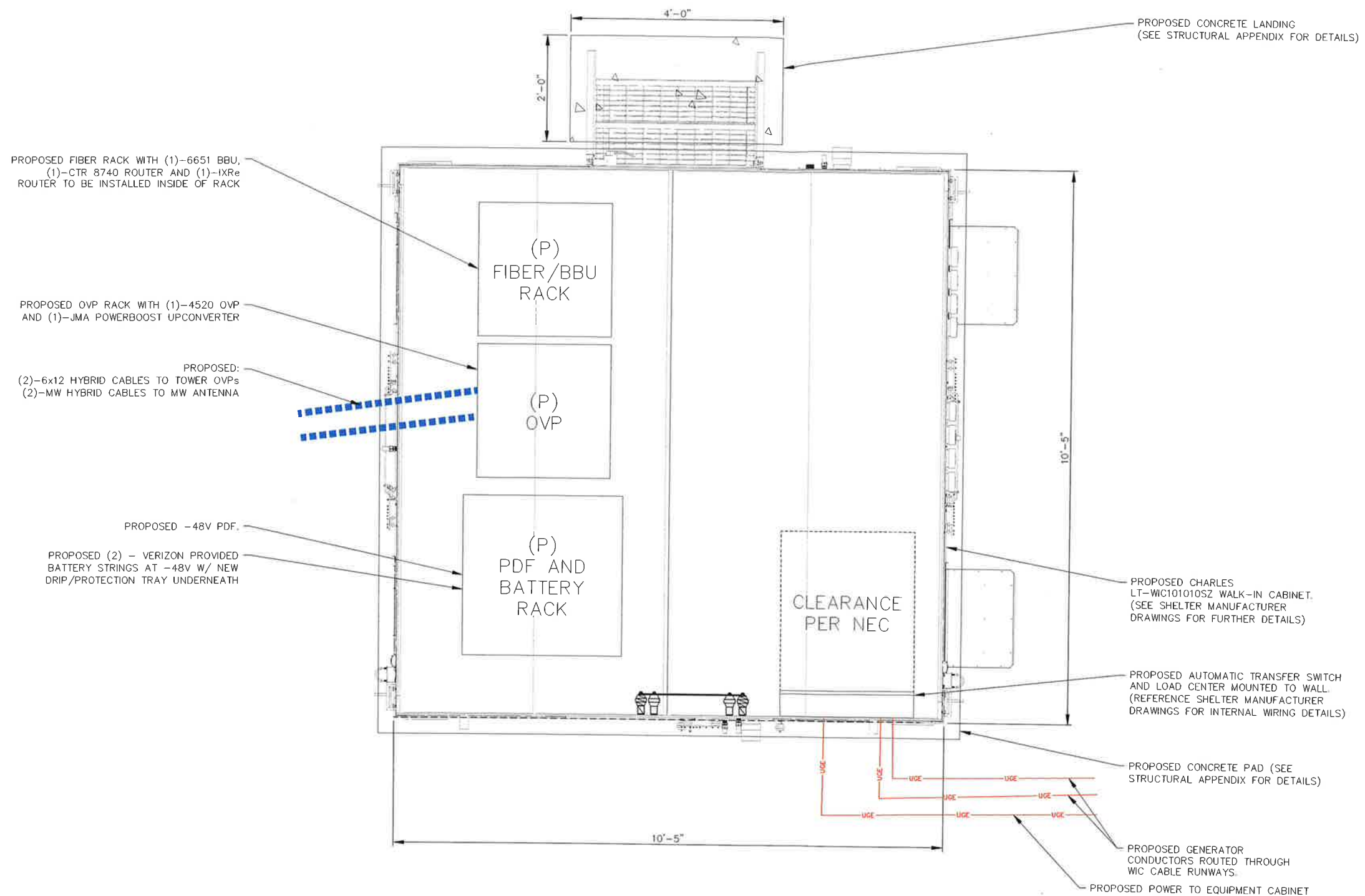
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

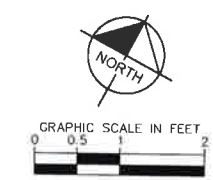
**EQUIPMENT
SHELTER PLAN**

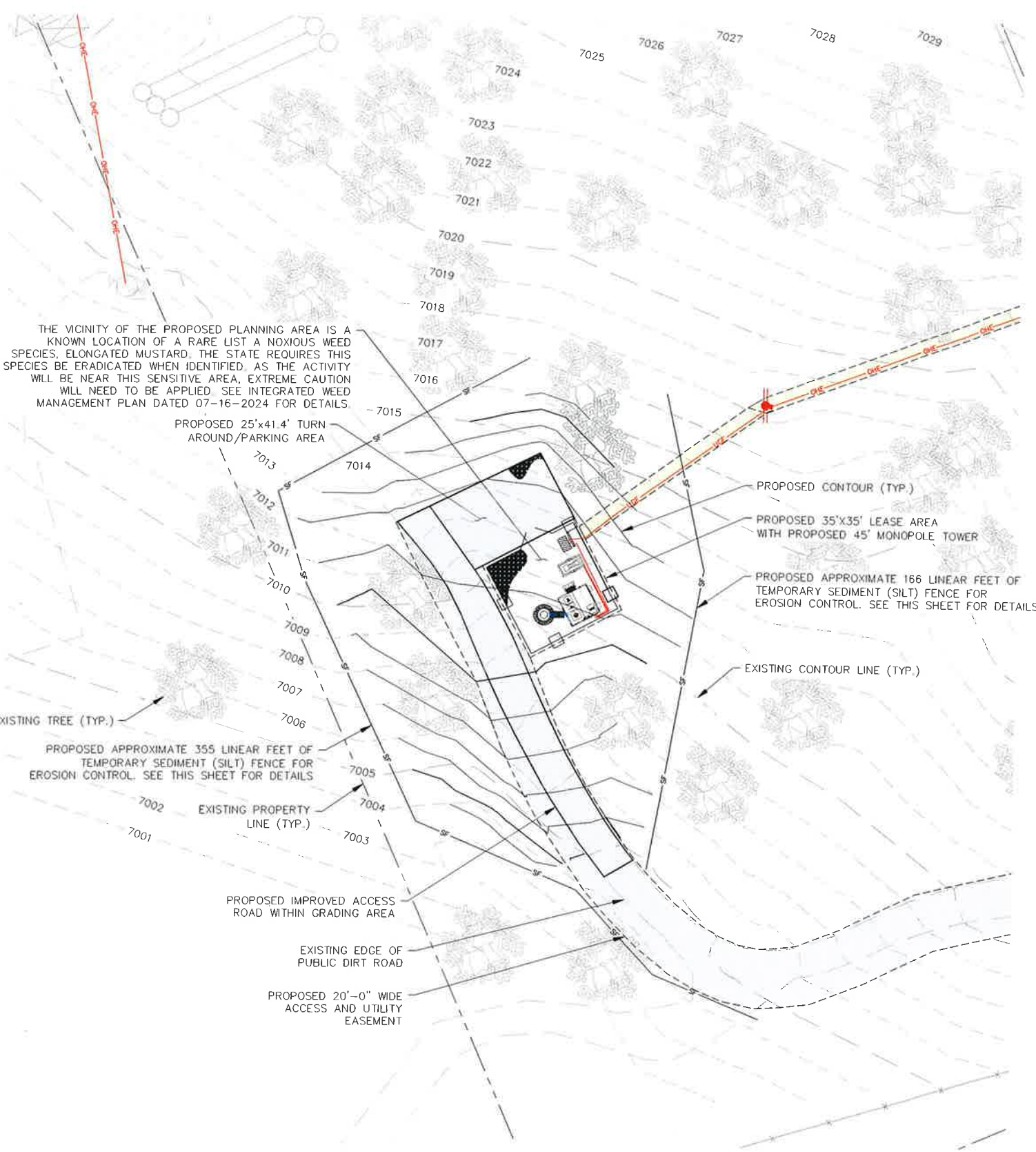
SHEET NUMBER:

C-5



1
C-5
PROPOSED EQUIPMENT SHELTER PLAN
SCALE: 1" = 1'
SCALE BASED ON 24"X36" ONLY

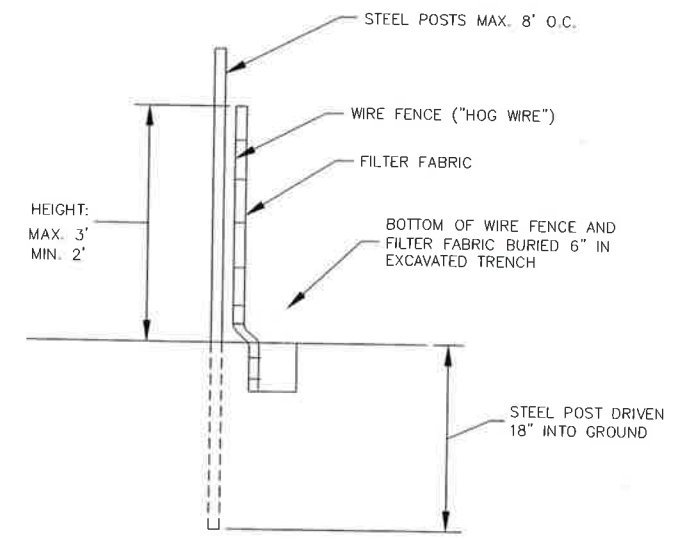




THE VICINITY OF THE PROPOSED PLANNING AREA IS A KNOWN LOCATION OF A RARE LIST A NOXIOUS WEED SPECIES, ELONGATED MUSTARD. THE STATE REQUIRES THIS SPECIES BE ERADICATED WHEN IDENTIFIED. AS THE ACTIVITY WILL BE NEAR THIS SENSITIVE AREA, EXTREME CAUTION WILL NEED TO BE APPLIED. SEE INTEGRATED WEED MANAGEMENT PLAN DATED 07-16-2024 FOR DETAILS.

EROSION CONTROL NOTES:

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



1
C-6 **EROSION CONTROL PLAN**
SCALE: 1" = 20'
SCALE BASED ON 24"X36" ONLY

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

3
C-6 **SEDIMENT FENCE (SILT FENCE) DETAIL**
SCALE: N.T.S.

verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV. 45' TOWER	WBB
2	08/29/24	REV. VZW COMMENTS	WSG
1	07/30/24	REV. TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: EJZ CHECKED BY: MFF

PROJECT NUMBER: 196015070

FOR REVIEW

PROJECT INFORMATION:
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE: **EROSION CONTROL PLAN**

SHEET NUMBER: C-6

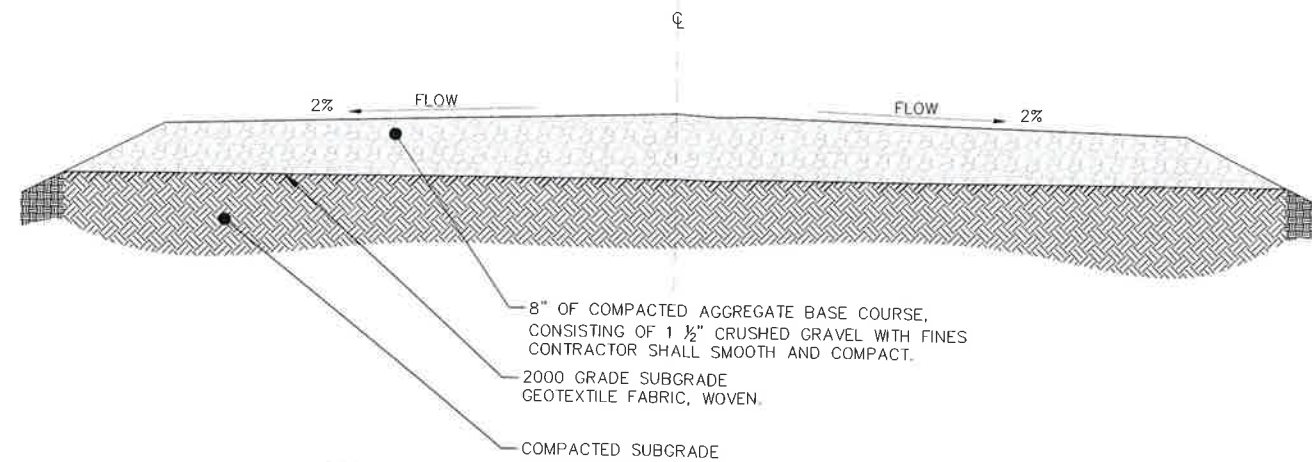


verizon

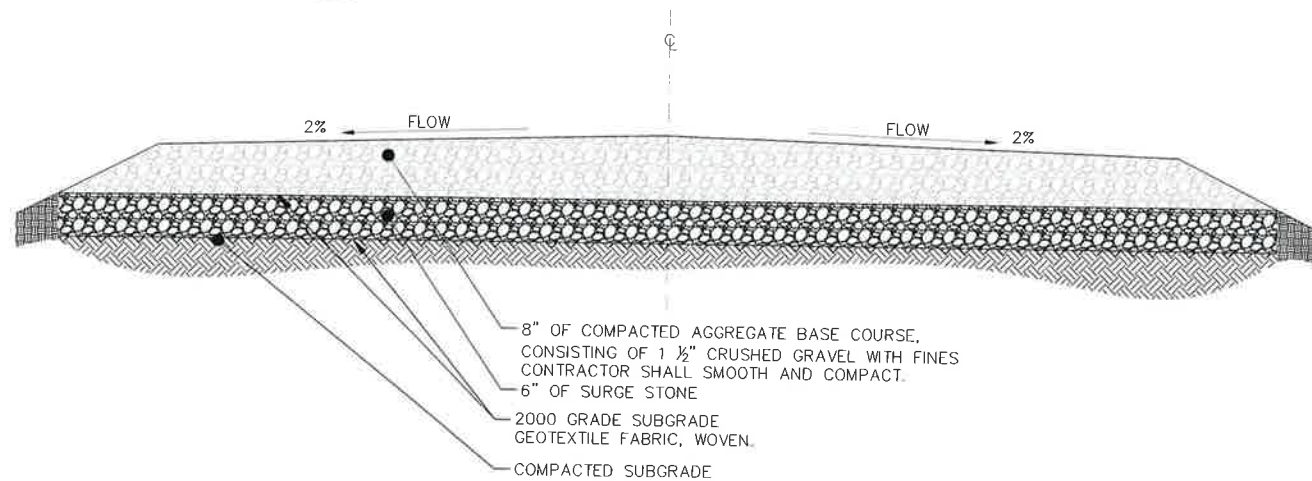
10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

NOTES:

- USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
- AGGREGATE IS BASED ON STANDARD AASHTO.
- SUB-GRADE SHALL BE COMPACTED BY SHEEPS FOOT VIBRATOR OR RUBBER TIRE ROLLERS WEIGHING AT LEAST EIGHT TONS.
- FINISH GRADE SHALL BE COMPACTED BY SMOOTH DRUM VIBRATOR ROLLERS WEIGHING AT LEAST EIGHT TONS.



1 ACCESS ROAD SECTION DETAIL (GOOD SUBGRADE)
SCALE: N.T.S.



2 ACCESS ROAD SECTION DETAIL (POOR SUBGRADE)
SCALE: N.T.S.

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45" TOWER	WBS
2	08/29/24	REV: V2W COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

EJZ MFF

196015070

FOR REVIEW

WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

**ACCESS ROAD
DETAIL**

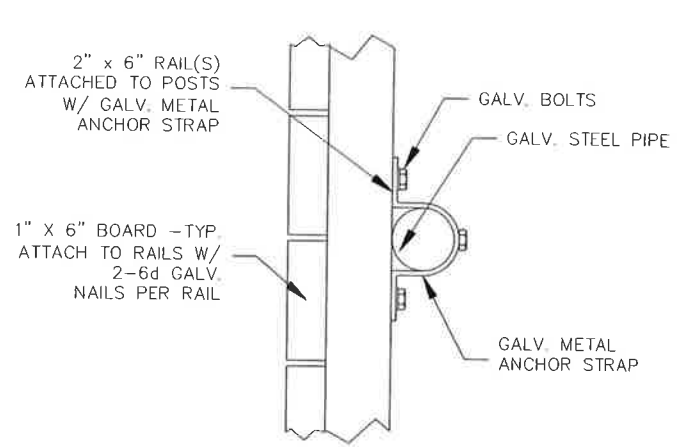
C-7



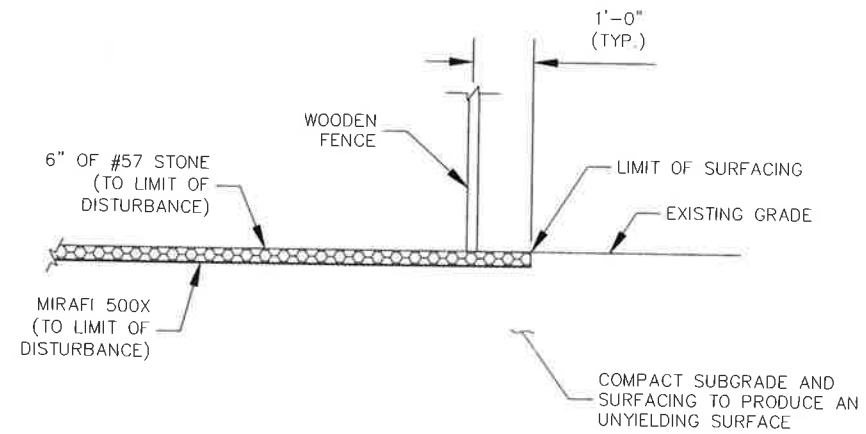
Know what's below.
Call before you dig.

FENCE NOTES:

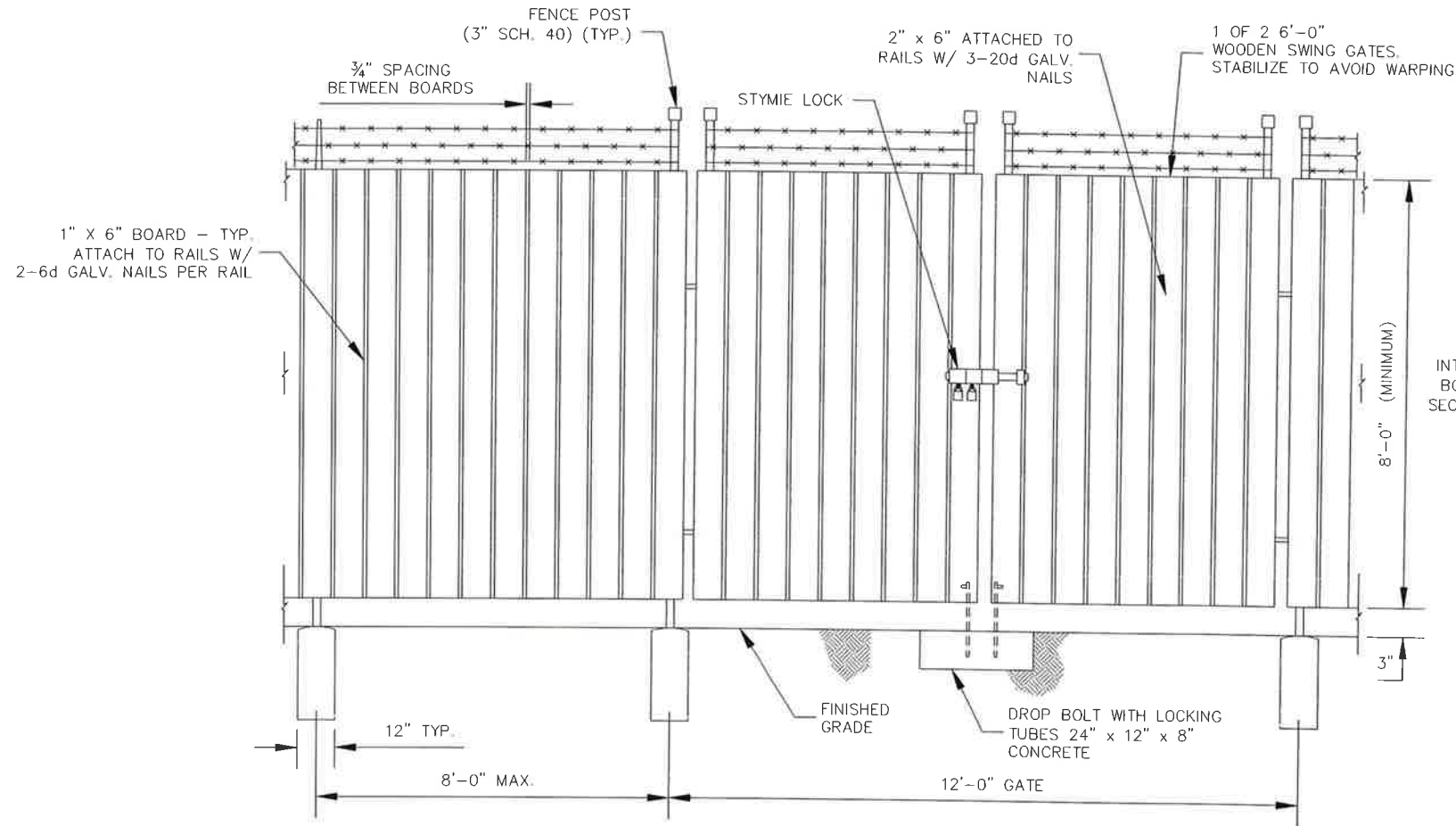
1. USE 3000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
2. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
3. ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
4. CORNER AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
5. PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
6. THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 3" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS. DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.



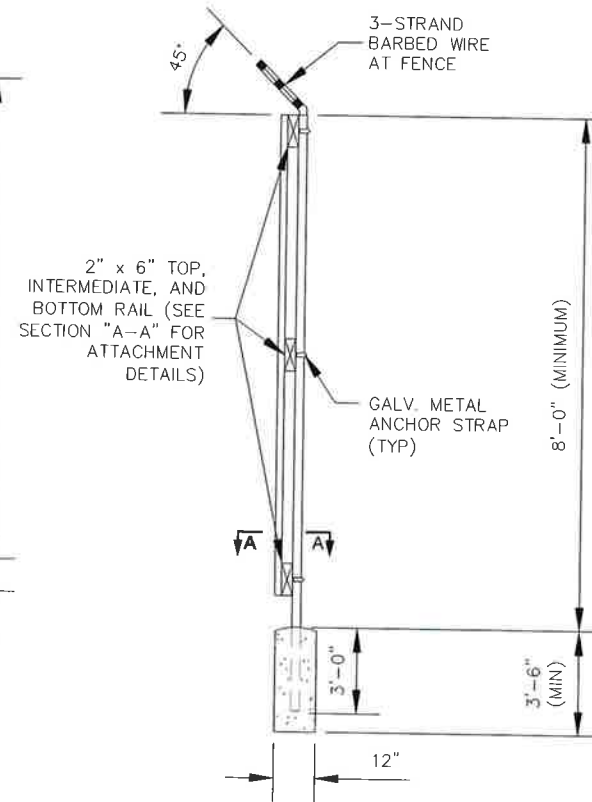
SECTION "A-A"
NOT TO SCALE



3 SITE COMPOUND SURFACE DETAIL
SCALE: N.T.S.



1 WOODEN FENCE AND GATE ELEVATION
SCALE: N.T.S.



2 SIDE ELEVATION VIEW
SCALE: N.T.S.

verizon

10000 PARK MEADOWS DRIVE,
SUITE 300, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

DATE DESCRIPTION

3	02/05/25	REV: 45° TOWER	WSB
2	06/23/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY CHECKED BY

EJZ MFF

PROJECT NUMBER

196015070

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

**COMPOUND
FENCE DETAILS**

SHEET NUMBER

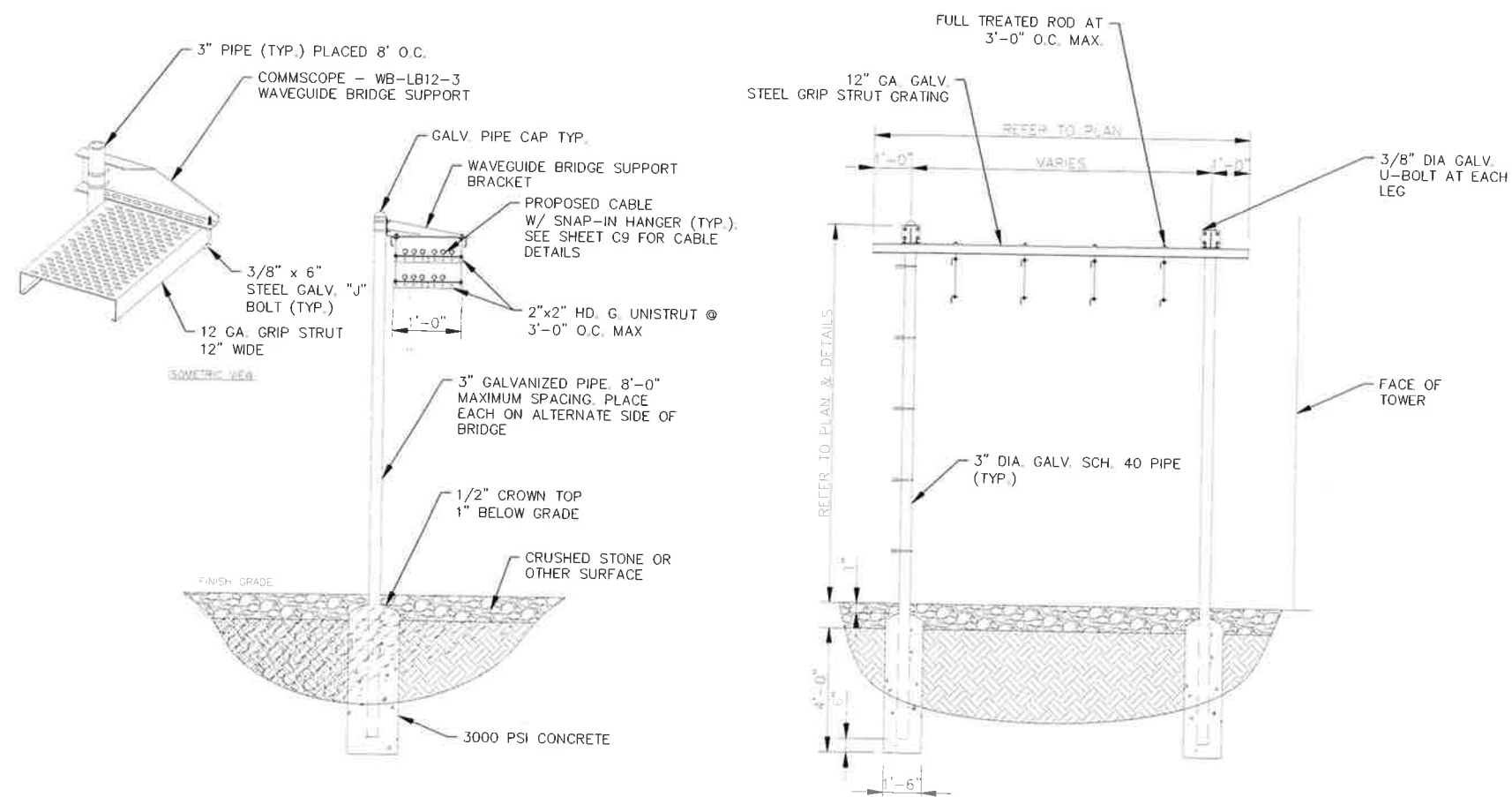
C-8



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10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124



1 ICE BRIDGE DETAIL
C-9 SCALE: N.T.S.

PLANS PREPARED BY
Kimley»Horn
6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WBB
2	05/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DESIGNED BY: EJZ
CHECKED BY: MFF
PROJECT NUMBER: 196015070

FOR PREVIEW

PROJECT INFORMATION:
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

ICE BRIDGE DETAILS
SHEET NUMBER: C-9

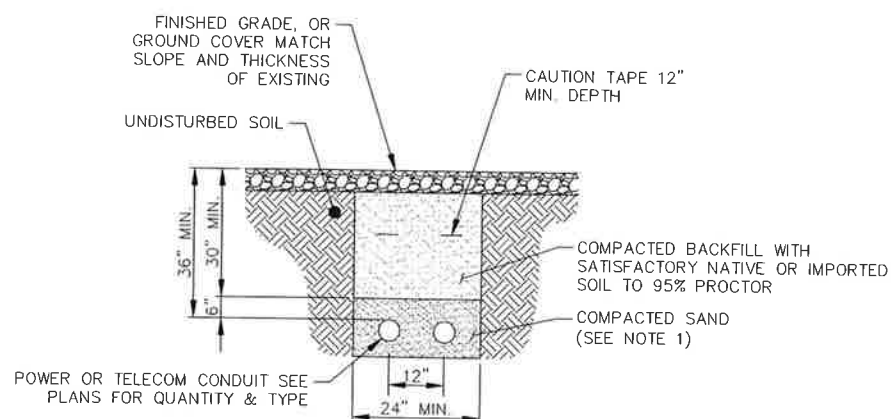


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10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM



1. IF GROUND SURFACE IS OTHER THAN NEWLY GRAVELED AREA, CONTRACTOR IS TO RESTORE TO ORIGINAL CONDITION.
2. PROVIDE PVC OR HDPE CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW
3. PROVIDE SCHEDULE 40 OR SCHEDULE 80 PVC CONDUIT & ELBOWS AT STUB UP LOCATIONS.
4. PROVIDE SCHEDULE 80 PVC CONDUIT BELOW PARKING LOTS AND ROADWAYS.
5. GENERAL CONTRACTOR TO PROVIDE 36" MIN. SEPARATION FROM PRIMARY CONDUCTOR TO FIBER/TELECOM CONDUITS.

1 TYPICAL TRENCHING DETAIL
C-10 SCALE: N.T.S.

REV. DATE DESCRIPTION

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45" TOWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDS	WSG

PREPARED BY CHECKED BY

EJZ MFF

PROJECT NUMBER

196015070

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

TRENCHING DETAIL

SHEET NUMBER

C-10



Know what's below.
Call before you dig.

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10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WGB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: **EJZ** CHECKED BY: **MFF**

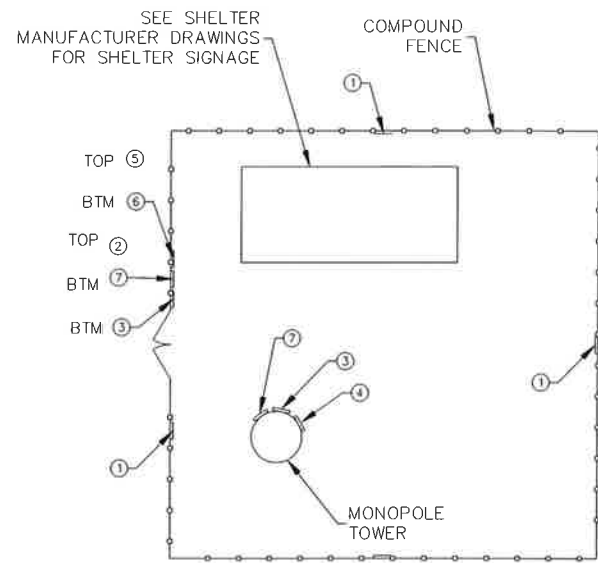
PROJECT NUMBER: **196015070**

FOR REVIEW

PROJECT INFORMATION:
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE: **SIGNAGE DETAILS**

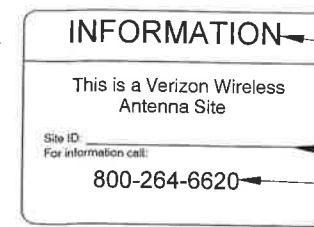
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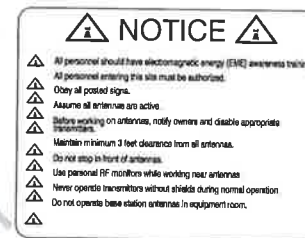
NOTE: SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.



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



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



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



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



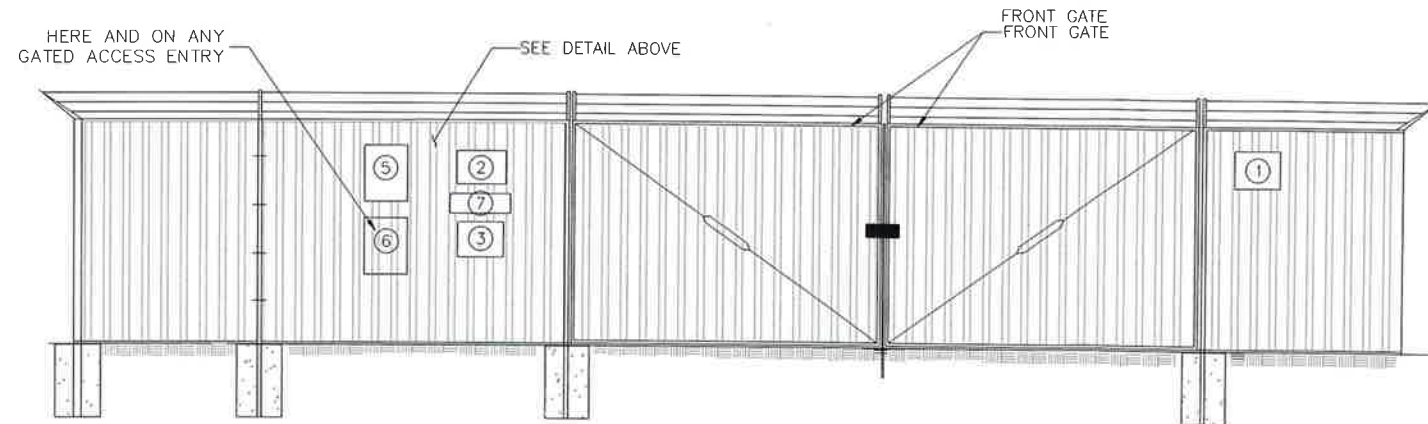
5 CAUTION-RF SIGN (YELLOW)
12" WIDE X 18" HIGH



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



7 FCC REGISTRATION SIGN
20 WIDE X 4" HIGH



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

1 SIGNAGE DETAILS
SCALE: N.T.S.

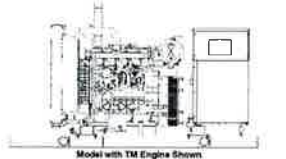


KOHLER.

Model: **40REOZK**

208-800 V Diesel

09001 Tier 3 EPA-Certified for Stationary Emergency Applications
Standby: kW 80 Hz
 37-42
Prime: kW 34-37
 34-46

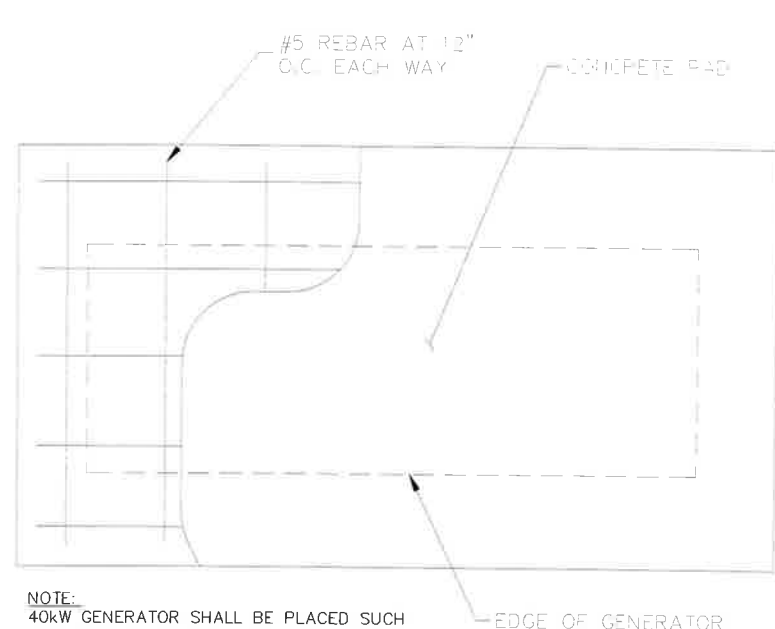


Generator Set Ratings

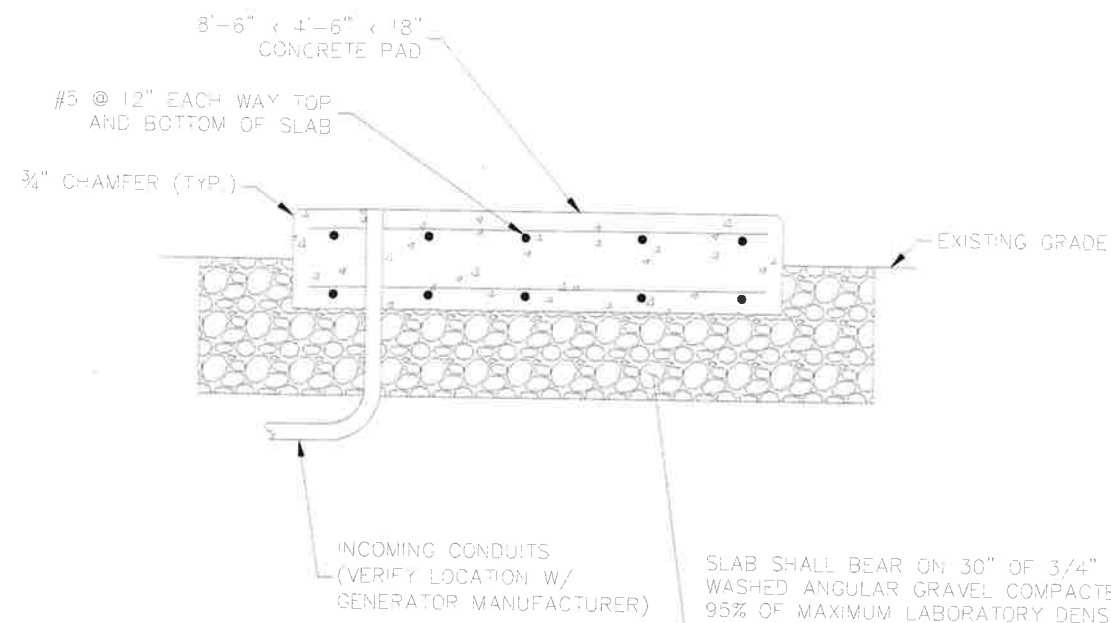
Alternator Voltage	Ph	Hz	130°C Rise		100°C Rise	
			Standby Rating	Prime Rating	Standby Rating	Prime Rating
208/240	3	60	42.52	143	37.48	128
277/311	3	60	42.52	143	37.48	128
347/396	3	60	42.52	143	37.48	128
416/473	3	60	42.52	143	37.48	128
484/551	3	60	42.52	143	37.48	128
553/629	3	60	42.52	143	37.48	128
622/708	3	60	42.52	143	37.48	128
691/789	3	60	42.52	143	37.48	128
760/862	3	60	42.52	143	37.48	128
829/944	3	60	42.52	143	37.48	128
898/1023	3	60	42.52	143	37.48	128
967/1105	3	60	42.52	143	37.48	128
1036/1181	3	60	42.52	143	37.48	128
1105/1261	3	60	42.52	143	37.48	128
1174/1339	3	60	42.52	143	37.48	128
1243/1421	3	60	42.52	143	37.48	128
1312/1509	3	60	42.52	143	37.48	128
1381/1597	3	60	42.52	143	37.48	128
1450/1685	3	60	42.52	143	37.48	128
1519/1773	3	60	42.52	143	37.48	128
1588/1861	3	60	42.52	143	37.48	128
1657/1949	3	60	42.52	143	37.48	128
1726/2037	3	60	42.52	143	37.48	128
1795/2125	3	60	42.52	143	37.48	128
1864/2213	3	60	42.52	143	37.48	128
1933/2301	3	60	42.52	143	37.48	128
2002/2389	3	60	42.52	143	37.48	128
2071/2477	3	60	42.52	143	37.48	128
2140/2565	3	60	42.52	143	37.48	128
2209/2653	3	60	42.52	143	37.48	128
2278/2741	3	60	42.52	143	37.48	128
2347/2829	3	60	42.52	143	37.48	128
2416/2917	3	60	42.52	143	37.48	128
2485/3005	3	60	42.52	143	37.48	128
2554/3093	3	60	42.52	143	37.48	128
2623/3181	3	60	42.52	143	37.48	128
2692/3269	3	60	42.52	143	37.48	128
2761/3357	3	60	42.52	143	37.48	128
2830/3445	3	60	42.52	143	37.48	128
2899/3533	3	60	42.52	143	37.48	128
2968/3621	3	60	42.52	143	37.48	128
3037/3709	3	60	42.52	143	37.48	128
3106/3797	3	60	42.52	143	37.48	128
3175/3885	3	60	42.52	143	37.48	128
3244/3973	3	60	42.52	143	37.48	128
3313/4061	3	60	42.52	143	37.48	128
3382/4149	3	60	42.52	143	37.48	128
3451/4237	3	60	42.52	143	37.48	128
3520/4325	3	60	42.52	143	37.48	128
3589/4413	3	60	42.52	143	37.48	128
3658/4501	3	60	42.52	143	37.48	128
3727/4589	3	60	42.52	143	37.48	128
3796/4677	3	60	42.52	143	37.48	128
3865/4765	3	60	42.52	143	37.48	128
3934/4853	3	60	42.52	143	37.48	128
4003/4941	3	60	42.52	143	37.48	128
4072/5029	3	60	42.52	143	37.48	128
4141/5117	3	60	42.52	143	37.48	128
4210/5205	3	60	42.52	143	37.48	128
4279/5293	3	60	42.52	143	37.48	128
4348/5381	3	60	42.52	143	37.48	128
4417/5469	3	60	42.52	143	37.48	128
4486/5557	3	60	42.52	143	37.48	128
4555/5645	3	60	42.52	143	37.48	128
4624/5733	3	60	42.52	143	37.48	128
4693/5821	3	60	42.52	143	37.48	128
4762/5909	3	60	42.52	143	37.48	128
4831/5997	3	60	42.52	143	37.48	128
4900/6085	3	60	42.52	143	37.48	128
4969/6173	3	60	42.52	143	37.48	128
5038/6261	3	60	42.52	143	37.48	128
5107/6349	3	60	42.52	143	37.48	128
5176/6437	3	60	42.52	143	37.48	128
5245/6525	3	60	42.52	143	37.48	128
5314/6613	3	60	42.52	143	37.48	128
5383/6701	3	60	42.52	143	37.48	128
5452/6789	3	60	42.52	143	37.48	128
5521/6877	3	60	42.52	143	37.48	128
5590/6965	3	60	42.52	143	37.48	128
5659/7053	3	60	42.52	143	37.48	128
5728/7141	3	60	42.52	143	37.48	128
5797/7229	3	60	42.52	143	37.48	128
5866/7317	3	60	42.52	143	37.48	128
5935/7405	3	60	42.52	143	37.48	128
6004/7493	3	60	42.52	143	37.48	128
6073/7581	3	60	42.52	143	37.48	128
6142/7669	3	60	42.52	143	37.48	128
6211/7757	3	60	42.52	143	37.48	128
6280/7845	3	60	42.52	143	37.48	128
6349/7933	3	60	42.52	143	37.48	128
6418/8021	3	60	42.52	143	37.48	128
6487/8109	3	60	42.52	143	37.48	128
6556/8197	3	60	42.52	143	37.48	128
6625/8285	3	60	42.52	143	37.48	128
6694/8373	3	60	42.52	143	37.48	128
6763/8461	3	60	42.52	143	37.48	128
6832/8549	3	60	42.52	143	37.48	128
6901/8637	3	60	42.52	143	37.48	128
6970/8725	3	60	42.52	143	37.48	128
7039/8813	3	60	42.52	143	37.48	128
7108/8901	3	60	42.52	143	37.48	128
7177/8989	3	60	42.52	143	37.48	128
7246/9077	3	60	42.52	143	37.48	128
7315/9165	3	60	42.52	143	37.48	128
7384/9253	3	60	42.52	143	37.48	128
7453/9341	3	60	42.52	143	37.48	128
7522/9429	3	60	42.52	143	37.48	128
7591/9517	3	60	42.52	143	37.48	128
7660/9605	3	60	42.52	143	37.48	128
7729/9693	3	60	42.52	143	37.48	128
7798/9781	3	60	42.52	143	37.48	128
7867/9869	3	60	42.52	143	37.48	128
7936/9957	3	60	42.52	143	37.48	128
8005/10045	3	60	42.52	143	37.48	128
8074/10133	3	60	42.52	143	37.48	128
8143/10221	3	60	42.52	143	37.48	128
8212/10309	3	60	42.52	143	37.48	128
8281/10397	3	60	42.52	143	37.48	128
8350/10485	3	60	42.52	143	37.48	128
8419/10573	3	60	42.52	143	37.48	128
8488/10661	3	60	42.52	143	37.48	128
8557/10749	3	60	42.52	143	37.48	128
8626/10837	3	60	42.52	143	37.48	128
8695/10925	3	60	42.52	143	37.48	128
8764/11013	3	60	42.52	143	37.48	128
8833/11101	3	60	42.52	143	37.48	128
8902/11189	3	60	42.52	143	37.48	128
8971/11277	3	60	42.52	143	37.48	128
9040/11365	3	60	42.52	143	37.48	128
9109/11453	3	60	42.52	143	37.48	128
9178/11541	3	60	42.52	143	37.48	128
9247/11629	3	60	42.52	143	37.48	128
9316/11717	3	60	42.52	143	37.48	128
9385/11805	3	60	42.52	143	37.48	128
9454/11893	3	60	42.52	143	37.48	128
9523/11981	3	60	42.52	143	37.48	128
9592/12069	3	60	42.52	143	37.48	128
9661/12157	3	60	42.52	143	37.48	128
9730/12245	3	60	42.52	143	37.48	128
9799/12333	3	60	42.52	143	37.48	128
9868/12421	3	60	42.52	143	37.48	128
9937/12509	3	60	42.52	143	37.48	128
10006/12597	3	60	42.52	143	37.48	128
10075/12685	3	60	42.52	143	37.48	128
10144/12773	3	60	42.52	143	37.48	128
10213/12861	3	60	42.52	143	37.48	128
10282/12949	3	60	42.52	143	37.48	128
10351/13037	3	60	42.52	143	37.48	128
10420/13125	3	60	42.52	143	37.48	128
10489/13213	3	60	42.52	143	37.48	128
10558/13301	3	60	42.52	143	37.48	128
10627/13389	3	60	42.52	143	37.48	128
10696/13477	3	60	42.52	143	37.48	128
10765/13565	3	60	42.52	143	37.48	128
10834/13653	3					

verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124



NOTE:
40KW GENERATOR SHALL BE PLACED SUCH THAT 4" MIN. EDGE DISTANCE IS ACHIEVED BETWEEN SLAB & GENERATOR ANCHORAGE.



SLAB SHALL BEAR ON 30" OF 3/4" WASHED ANGULAR GRAVEL COMPACTED TO 95% OF MAXIMUM LABORATORY DENSITY DETERMINED IN ACCORDANCE W/ ASTM D698 (STANDARD PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.

GENERAL NOTES:

- 1) MINIMUM CONCRETE STRENGTH (f_c) TO BE 4,500 psi UNLESS NOTED OTHERWISE. CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY. CONCRETE EXPOSED TO FREEZE-THAW CYCLES TO CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A WATER-TO-CEMENT RATIO (W/C) NOT TO EXCEED 0.45.
- 2) UNLESS NOTED OTHERWISE, CONCRETE PAD SHALL BEAR ON A MINIMUM OF 30" OF AGGREGATE BASE COURSE (ABC) MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY DETERMINED BY ASTM D698 (STANDARD PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.
- 3) ALL REINFORCING TO MAINTAIN 3" COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
- 4) REQUIRED OVEREXCAVATION AND SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH THE REFERENCED GEOTECHNICAL REPORT RECOMMENDATIONS.
- 5) GENERATOR ANCHORING STUDS/BOLTS TO BE 5/8"-11 GRADE 5 AND USE STANDARD SAE TORQUE SPECS. REFER TO MANUFACTURER PROVIDED INSTALLATION DRAWING.

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WGB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDS	WSG

DRAWN BY: EJZ CHECKED BY: MFF

KMA PROJECT NUMBER: 196015070

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE: SIGNAGE DETAILS

SHEET NUMBER: C-13

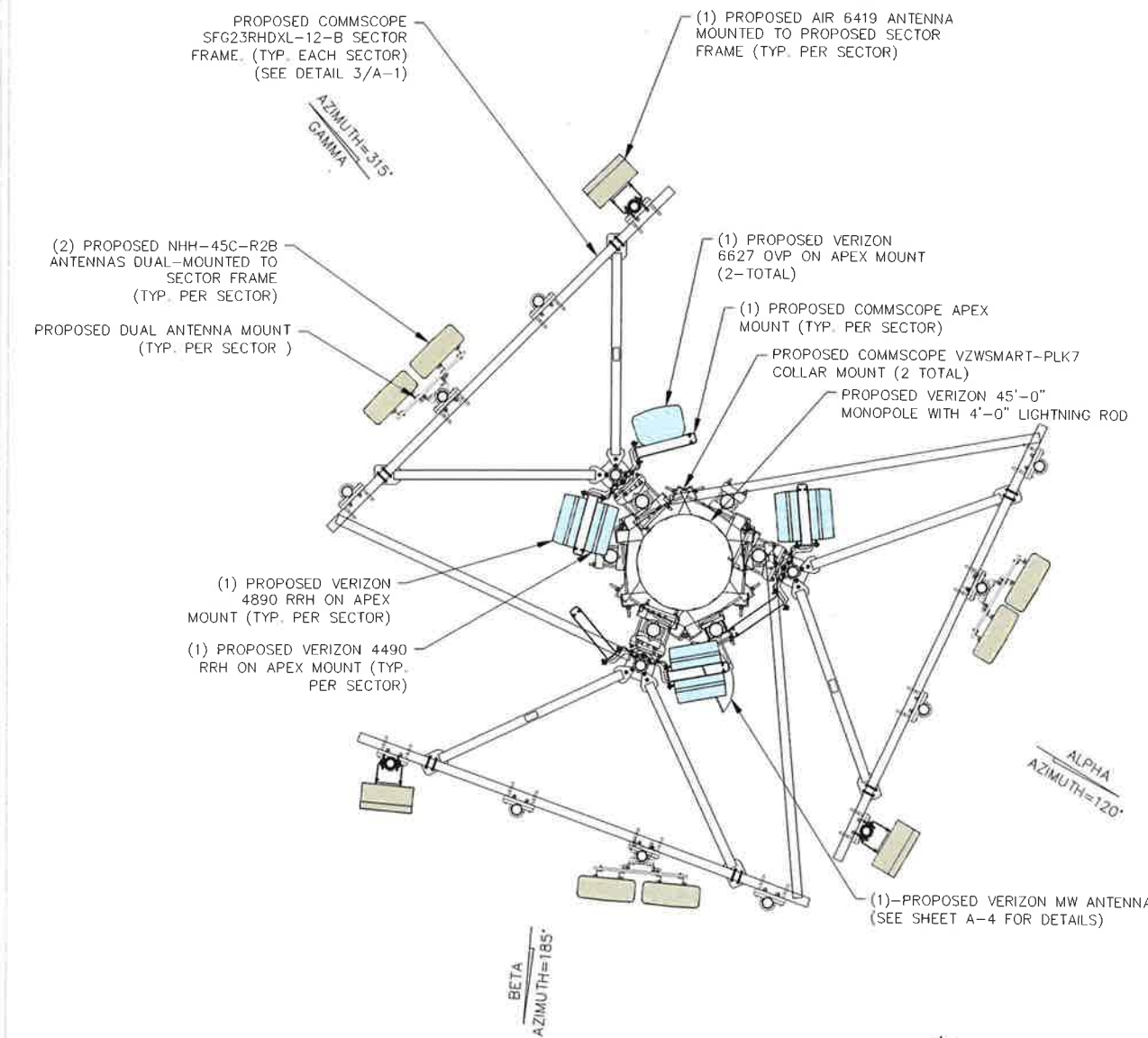
1
C-13 **CAST IN PLACE CONCRETE PAD**
SCALE: N.T.S.



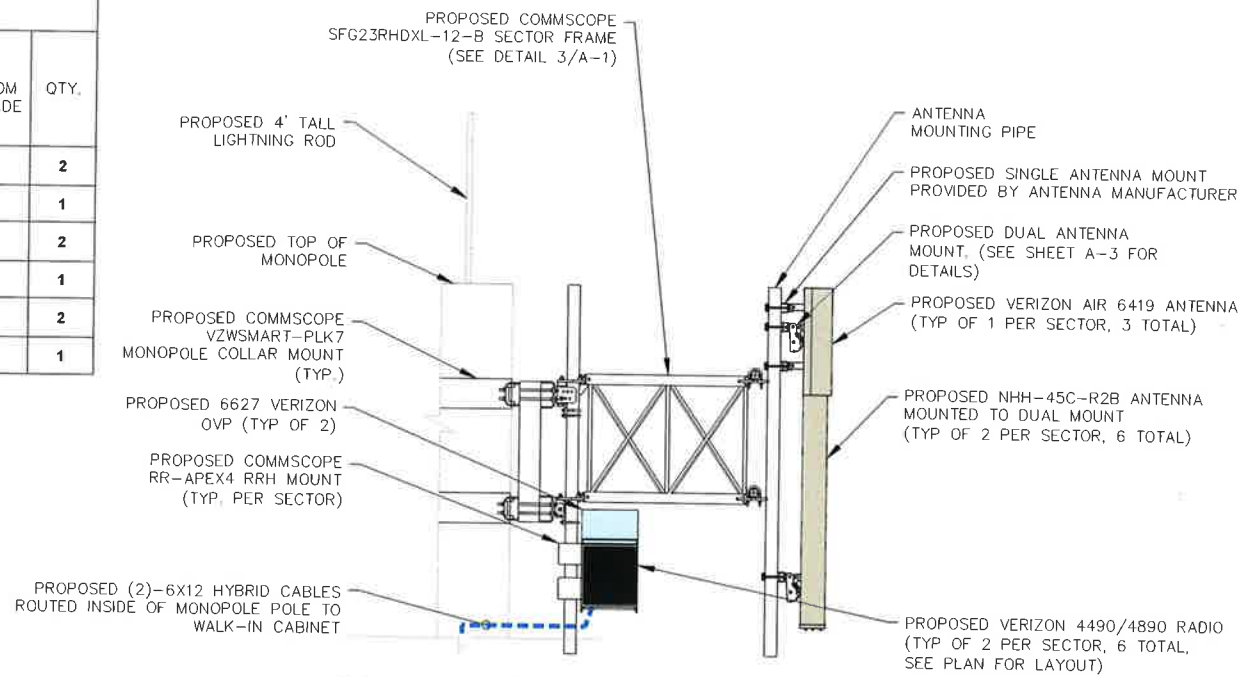
FINAL ANTENNA SCHEDULE*

ANTENNA SECTOR	ANTENNA POSITION	ANTENNA*	REMAIN/PROPOSED	LENGTH	WIDTH	DEPTH	WEIGHT (POUNDS)	HORIZONTAL DISTANCE ADJACENT BUILDING	VERTICAL DISTANCE FROM C.O.R. TO GRADE	QTY.
ALPHA	1	NHH-45C-R2B	PROPOSED	95.9"	17.9"	7.0"	84.7	±250'	41'-0"	2
	2	AIR 6419 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88		43'-9"	1
BETA	1	NHH-45C-R2B	PROPOSED	95.9"	17.9"	7.0"	84.7	±1060'	41'-0"	2
	2	AIR 6419 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88		43'-9"	1
GAMMA	1	NHH-45C-R2B	PROPOSED	95.9"	17.9"	7.0"	84.7	±615'	41'-0"	2
	2	AIR 6419 PANEL/RADIO	PROPOSED	30.4"	15.9"	8.1"	88		43'-9"	1

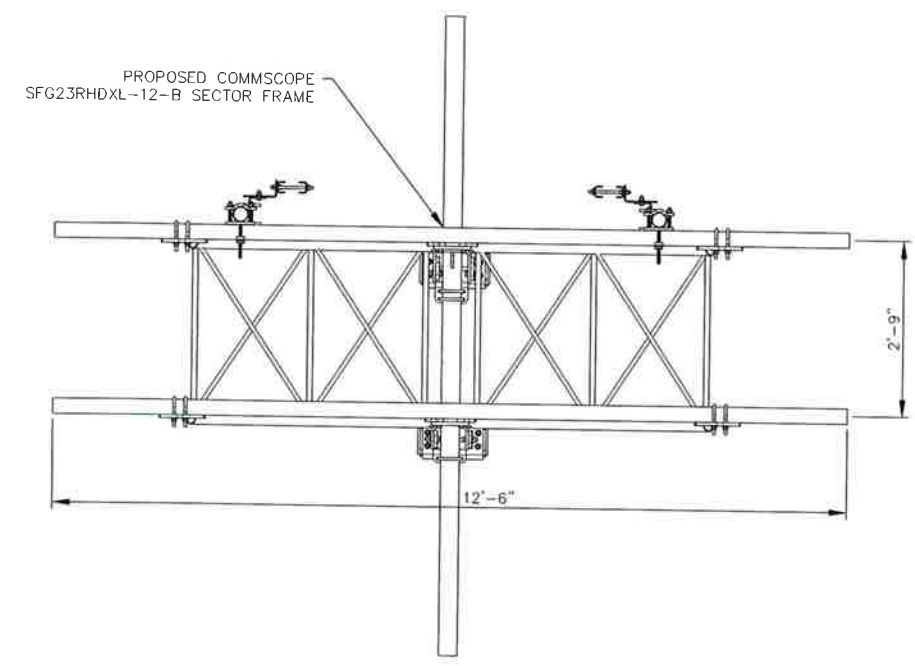
* REFER TO FINAL RFDS PRIOR TO CONSTRUCTION



1 A-1 ANTENNA PLAN SCALE: 1" = 2' SCALE BASED ON 24"x36" ONLY



2 A-1 ANTENNA MOUNTING DETAIL SCALE: 1" = 2' SCALE BASED ON 24"x36" ONLY



3 A-1 ANTENNA MOUNT DETAIL SCALE: N.T.S.



10000 PARK MEADOWS DRIVE, SUITE 200, LOVE TREE, CO 80124



6200 SOUTH SYRACUSE WAY #300 GREENWOOD VILLAGE, CO 80111 PHONE (303) 228-2300 WWW.KIMLEY-HORN.COM

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV. 45' TOWER	WBB
2	05/29/24	REV. VZV COMMENTS	WSG
1	07/30/24	REV. TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

EJZ MFF

196015070

WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

ANTENNA LAYOUT & MOUNTING PLAN

A-1



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SUITE 200, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
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REV. DATE DESCRIPTION

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1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: EJJ CHECKED BY: MFF

EJJ MFF

PROJECT NUMBER

196015070

PROJECT INFORMATION

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

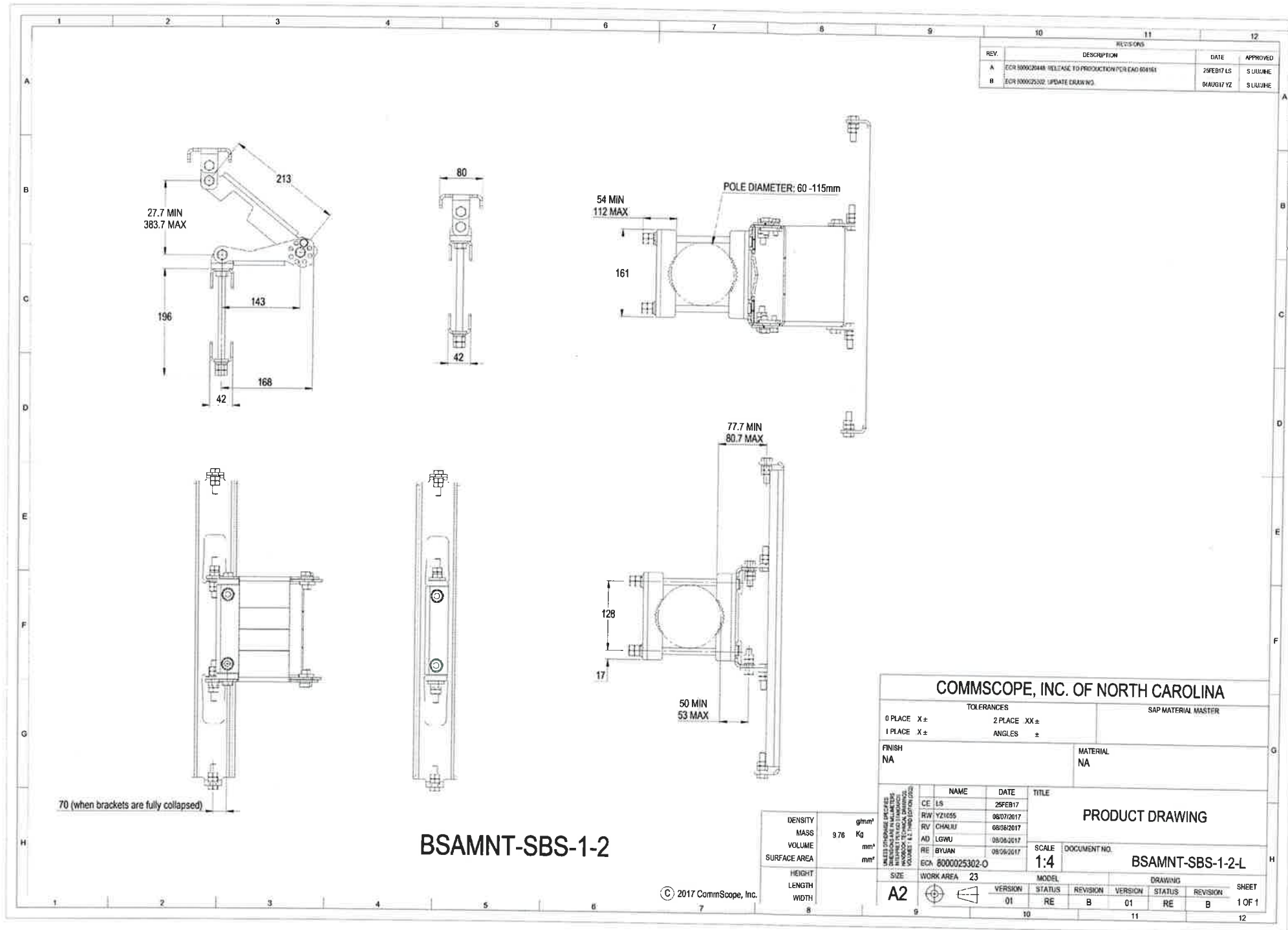
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

DUAL ANTENNA
MOUNT DETAILS

SHEET NUMBER

A-3



BSAMNT-SBS-1-2

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DENSITY	9.76	g/mm ³
MASS		Kg
VOLUME		mm ³
SURFACE AREA		mm ²
HEIGHT		
LENGTH		
WIDTH		

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES: 0 PLACE X±, 2 PLACE XX±, 1 PLACE X±, ANGLES ±

FINISH: NA, MATERIAL: NA

SCALE: 1:4

DOCUMENT NO.: BSAMNT-SBS-1-2-L

NAME	DATE	TITLE
CE LS	29FEB17	
RW YZ1655	08072017	
RV CHALM	08082017	
AD LGWU	08082017	
RE BYUAN	08082017	
ECR 8000025302-0		

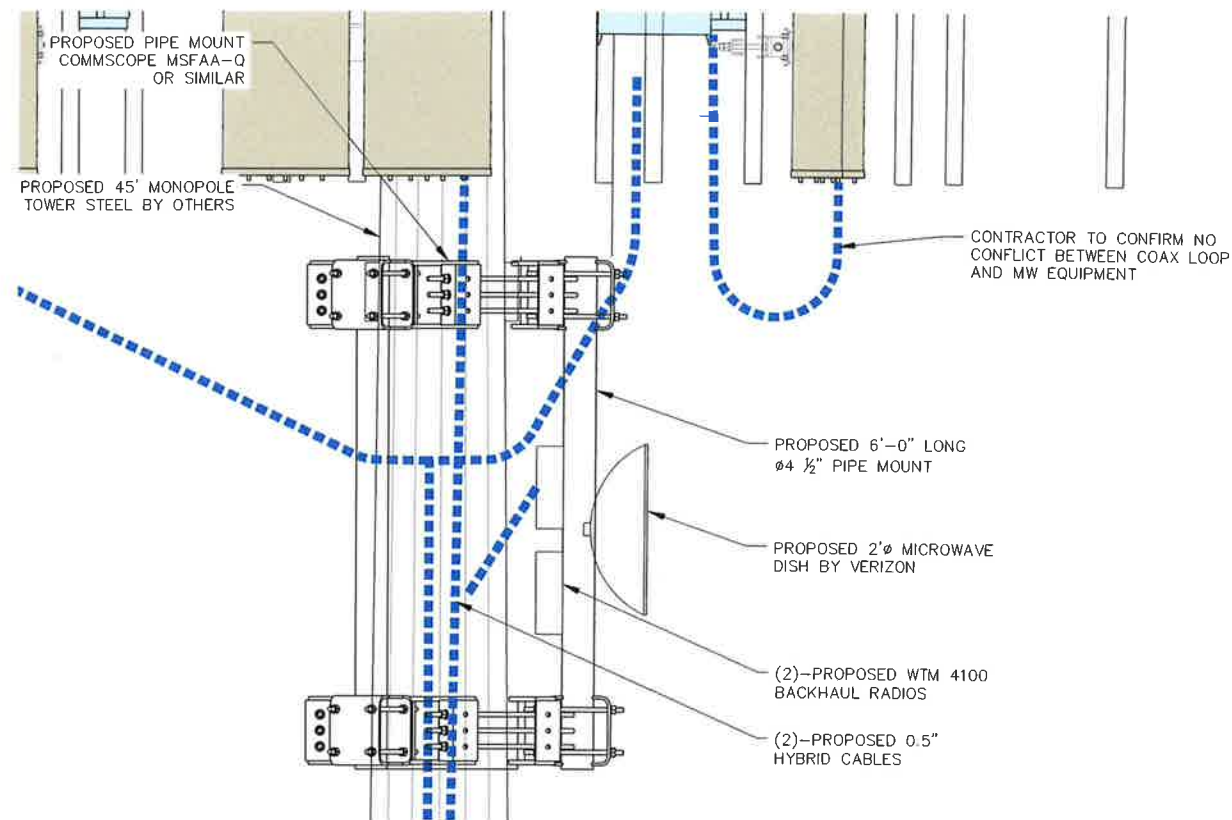
VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	SHEET
01	RE	B	01	RE	B	1 OF 1

1 DUAL ANTENNA MOUNT DETAILS
A-3 SCALE: N.T.S.

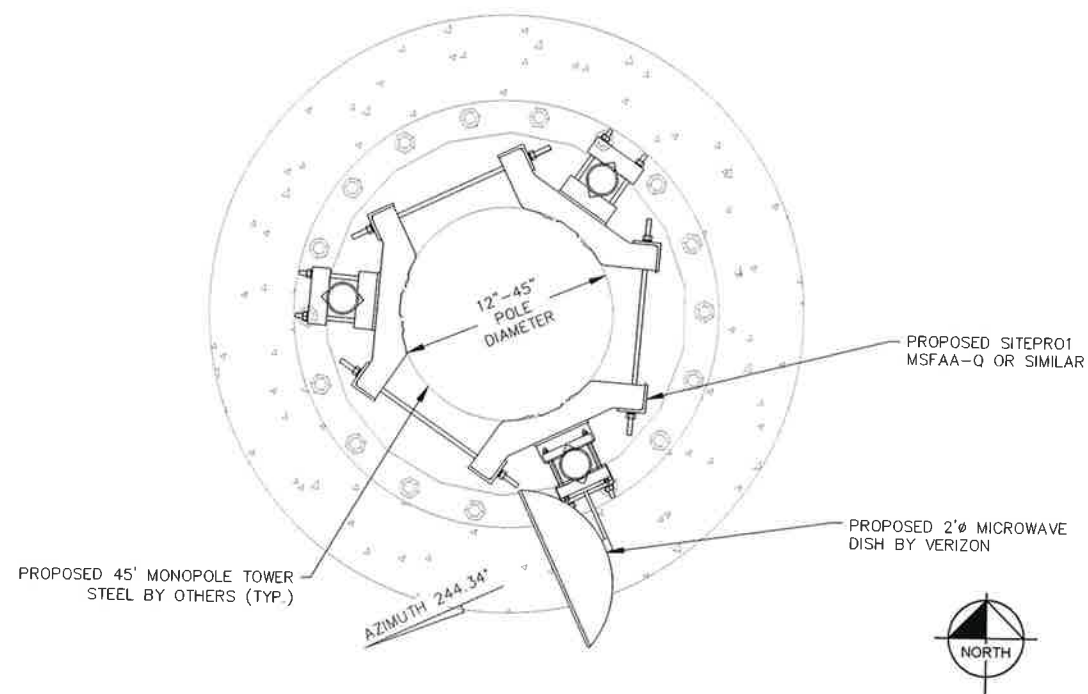
ANTENNA AND CABLE SCHEDULE						
ADD/REMOVE	MFG/MODEL	MOUNTING HEIGHT	ANTENNA SPECS	AZIMUTH	WIRING/MODEL	WIRING LENGTH
PROPOSED MICROWAVE	VHLPX2-11W/B	±33'-0"	2'Ø DISH	244.34	(2)-0.5" HYBRID CABLES	50' +/-

NOTES:

1. LENGTHS ARE ESTIMATES, CONTRACTOR AND/OR CONSTRUCTION MANAGER SHALL FIELD VERIFY ALL LENGTHS PRIOR TO ORDERING.
2. ALL AZIMUTHS SHOWN ARE RELATIVE TO TRUE NORTH (UNLESS OTHERWISE STATED)
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AZIMUTHS DEPICTED HEREIN WITH THE RF DEPARTMENT PRIOR TO INSTALLING ANY ANTENNAS



1 PROPOSED MICROWAVE ANTENNA ELEVATION AT +/- 33'-0"
SCALE: NOT TO SCALE



2 PROPOSED MICROWAVE ANTENNA PLAN AT +/- 33'-0"
SCALE: NOT TO SCALE

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10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

PLANS PREPARED BY

Kimley»Horn

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GREENWOOD VILLAGE, CO 80111
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0	06/20/24	WELLSVILLE CDS	WSG

DRAWN BY: CHECKED BY:

EJZ **MFF**

PROJECT NUMBER

196015070

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

**MICROWAVE
ANTENNA PLAN**

SHEET NUMBER

A-4

ELECTRICAL NOTES

1.00 CODES, STANDARDS, & SPECIFICATIONS

- 1.01 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND LABOR RELATED DIRECTLY OR INDIRECTLY TO ALL ELECTRICAL WORK DOCUMENTED IN THESE DRAWINGS SHALL BE PROVIDED AND PERFORMED IN CONFORMANCE WITH ALL CURRENT GOVERNING CODES, STANDARDS, AND PROFESSIONAL STANDARD OF CARE TO INCLUDE THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), UNDERWRITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN STANDARDS ASSOCIATION (ASA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND THE NATIONAL ELECTRICAL CODE (NEC).
- 1.02 MATERIALS SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE CURRENT GOVERNING STANDARDS ESTABLISHED FOR EACH ITEM BY ASTM, UL, NEMA, ASA, AND NFPA.
- 1.03 ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, AND MUNICIPAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT GOVERNING STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.
- 1.04 ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.
- 1.05 CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS AT ALL WALL PENETRATIONS.
- 1.06 CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC. MINIMUM CLEARANCE SHALL BE OBSERVED FOR BOTH THE FRONT AND THE REAR OF THE METER H-FRAME RACK AND THE EQUIPMENT H-FRAME RACK.

2.00 GENERAL

- 2.01 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON WIRELESS REPRESENTATIVE.
- 2.02 CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- 2.03 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.
- 2.04 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 2.05 CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK.
- 2.06 CONTRACTOR SHALL REPAIR ANY LANDSCAPING DISTURBED DURING CONSTRUCTION.
- 2.07 IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THE CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.
- 2.08 CONTRACTOR SHALL INDICATE THE LOCATION OF ALL CAPPED UNDERGROUND SPARE CONDUIT ON THE RECORD DRAWINGS SUBMITTED TO THE OWNER.
- 2.09 CONTRACTOR SHALL COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. ALL CONDUIT SHALL BE ROUTED WITHIN 3 FEET, EITHER SIDE, OF PERIMETER FENCING.

3.00 MATERIALS

- 3.01 ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 3.02 FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VERIZON WIRELESS.
- 3.03 CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM THE TOWER OWNER OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.
- 3.04 ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS.
- 3.05 ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.
- 3.06 CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.
- 3.07 CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.
- 3.08 ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON THE PLANS. WHEN CONDUIT IS ROUTED UNDER A ROADWAY, SCHEDULE 80 PVC CONDUIT SHALL BE UTILIZED. MANUFACTURED BEND RADII SHALL BE PER NEC.
- 3.09 CONTRACTOR SHALL PROVIDE TWO (2) 200 POUND TEST POLYETHYLENE PULL CORDS IN ALL CONDUITS AND ALL INNERDUCTS. PULL CORDS SHALL BE SECURED AT EACH END OF CONDUIT RUNS. ALL SPARE CONDUIT ENDS SHALL BE CAPPED WITH MANUFACTURED PVC FITTINGS.
- 3.10 CONTRACTOR SHALL BOND EACH METALLIC CONDUIT ENTERING A METALLIC ENCLOSURE WITH A #8 MIN AWG INSULATED COPPER BONDING JUMPER PER NEC. CONTRACTOR SHALL BOND ALL ELECTRICAL EQUIPMENT TO THE H-FRAME RACK ON WHICH EQUIPMENT IS MOUNTED WITH #8 MIN AWG INSULATED COPPER BONDING JUMPERS PER NEC.
- 3.11 CONTRACTOR SHALL IDENTIFY THE END OF ALL SPARE UNDERGROUND CONDUITS AND PROVIDE AND INSTALL 90 DEGREE ELBOWS WITH VERTICAL CONDUIT EXTENSIONS TO EXTEND 3" ABOVE FINISHED CRUSHED AGGREGATE GRADE. CONTRACTOR SHALL TERMINATE CONDUITS WITH MANUFACTURED CONDUIT CAPS THAT THE CONTRACTOR HAS PAINTED ORANGE.

4.00 PRE-CONSTRUCTION COORDINATION

- 4.01 CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK. ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.
- 4.02 THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4.03 CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.
- 4.04 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.
- 4.05 CONTRACTOR SHALL COORDINATE WITH LOCAL TELCO UTILITY REGARDING THE EXACT LOCATION OF THE TELCO SERVICE ENTRY POINT.
- 4.06 CONTRACTOR SHALL COORDINATE WITH AUTHORITY HAVING JURISDICTION REGARDING LOCAL FROST LINE REQUIREMENTS FOR RACEWAY MATERIAL SELECTION AND INSTALLATION.
- 4.07 ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIMUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 KVA, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND EQUIPMENT. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT (AFC) AT THE UTILITY SERVICE POINT. PROVIDE MAX. AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT.

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10000 PARK MEADOWS DRIVE,
SUITE 200, LONG TREE, CO 80124

PLANS PREPARED BY:

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WBB
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1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: **EJZ** CHECKED BY: **MFF**

PROJECT NUMBER: **196015070**

ENGINEER SEAL

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE: **ELECTRICAL NOTES**

SHEET NUMBER: **E-1**

UTILITY PLAN SCHEDULE

QUANTITY	ITEM	DESCRIPTION	LENGTH	PROVIDED BY	INSTALLED BY
1	OVERHEAD ELECTRIC PRIMARY EXTENSION FROM (E) UTILITY POLE TO (P) UTILITY POLE	OVERHEAD POWER	±77'	SDCEA	SDCEA
1	OVERHEAD ELECTRIC FROM (P) UTILITY POLE TO (P) UTILITY POLE W/ XFMR	OVERHEAD POWER	±675'	SDCEA	SDCEA
1	ELECTRIC CONDUIT FROM (P) UTILITY POLE W/XFMR TO SERVICE METER/DISCONNECT	(1)-3" SCHEDULE 80 PVC OR HDPE (U.G.)	±78'	CONTRACTOR	CONTRACTOR
1	ELECTRIC CONDUCTORS FROM (P) UTILITY POLE W/XFMR TO SERVICE METER/DISCONNECT	(3)-3/0 CU CONDUCTORS	±93'	CONTRACTOR	CONTRACTOR
1	ELECTRIC CONDUIT FROM SERVICE METER/DISCONNECT TO WALK-IN CABINET	(1)-3" SCHEDULE 80 PVC OR HDPE (U.G.) W/ (3)-3/0 CU CONDUCTORS	±34'	CONTRACTOR	CONTRACTOR
1	ELECTRIC CONDUIT FROM DIESEL GENERATOR TO WALK-IN CABINET	(1)-3" & (1)-2" SCHEDULE 80 PVC W/ (3)-3/0 CU CONDUCTORS	±30'	CONTRACTOR	CONTRACTOR
1	DISCONNECT	200A BREAKER-TYPE	X	CONTRACTOR	CONTRACTOR
1	METER	200A METER SOCKET IN NEMA 3R ENCLOSURE	X	CONTRACTOR	CONTRACTOR
TBD	UTILITY POLE	TBD	TBD	SDCEA	SDCEA

POWER NOTES:

- CONTRACTOR TO CONTACT SANGRE DE CRISTO ELECTRIC ASSOCIATION (CONTACT TBD) PRIOR TO CONSTRUCTION.
EMAIL: TBD
PHONE: TBD
- PROVIDE 36" OF SEPARATION FOR POWER TO FIBER CONDUITS.
- CONTRACTOR SHALL VERIFY CONDUIT, TRENCHING, & OVERHEAD ELEC. REQUIREMENTS FOR NEW SERVICE WITH SANGRE DE CRISTO ELECTRIC ASSOCIATION PRIOR TO BACKFILLING.



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SUITE 200, LONE TREE, CO 80124



6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
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REV. DATE DESCRIPTION BY

REV.	DATE	DESCRIPTION	BY
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0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: CHECKED BY:

EJZ MFF

PROJECT NUMBER:

196015070

ENGINEER SEAL:



PROJECT FORWARD:

WELLSVILLE

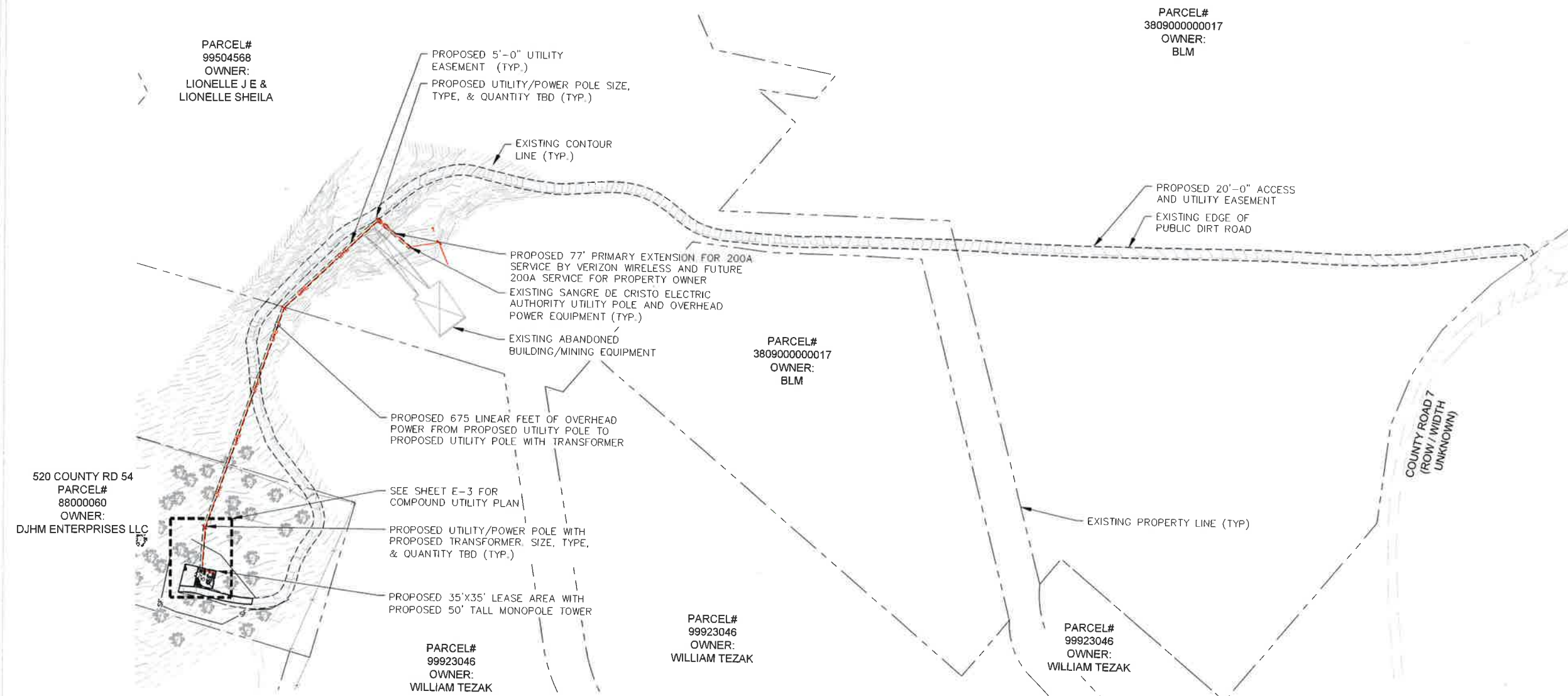
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

OVERALL UTILITY PLAN

SHEET NUMBER:

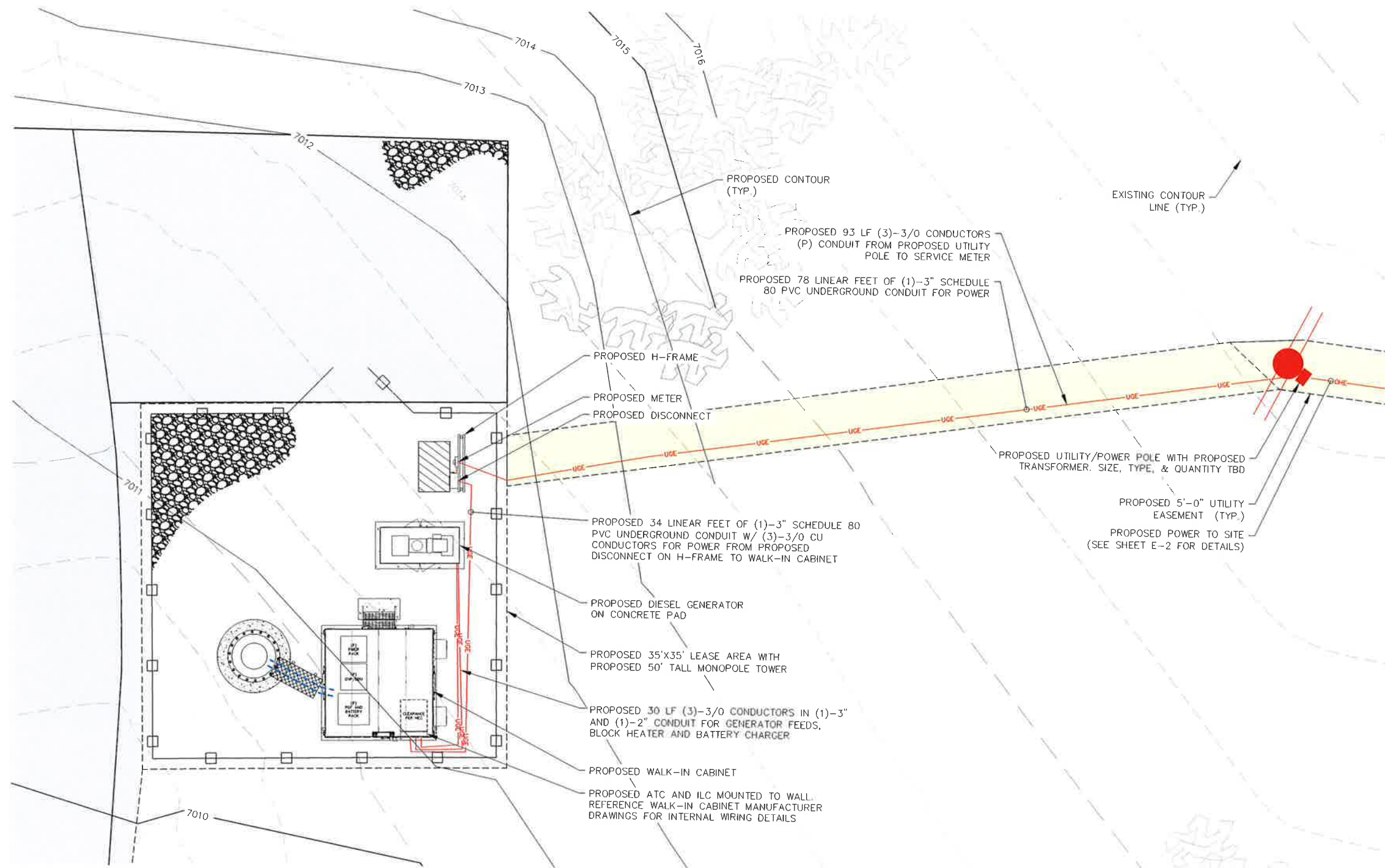
E-2



1 OVERALL UTILITY SERVICE ROUTING PLAN

E-2 SCALE: 1" = 100' SCALE BASED ON 24"X36" ONLY





1
E-3 **COMPOUND UTILITY SERVICE PLAN**
SCALE: 1" = 5'
SCALE BASED ON 24"x36" ONLY



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SUITE 200, LONE TREE, CO 80124

PLANS PREPARED BY
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DRAWN BY: CHECKED BY:

EJZ **MFF**

K&H PROJECT NUMBER:

196015070

ENGINEER SEAL

PROJECT INFORMATION

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

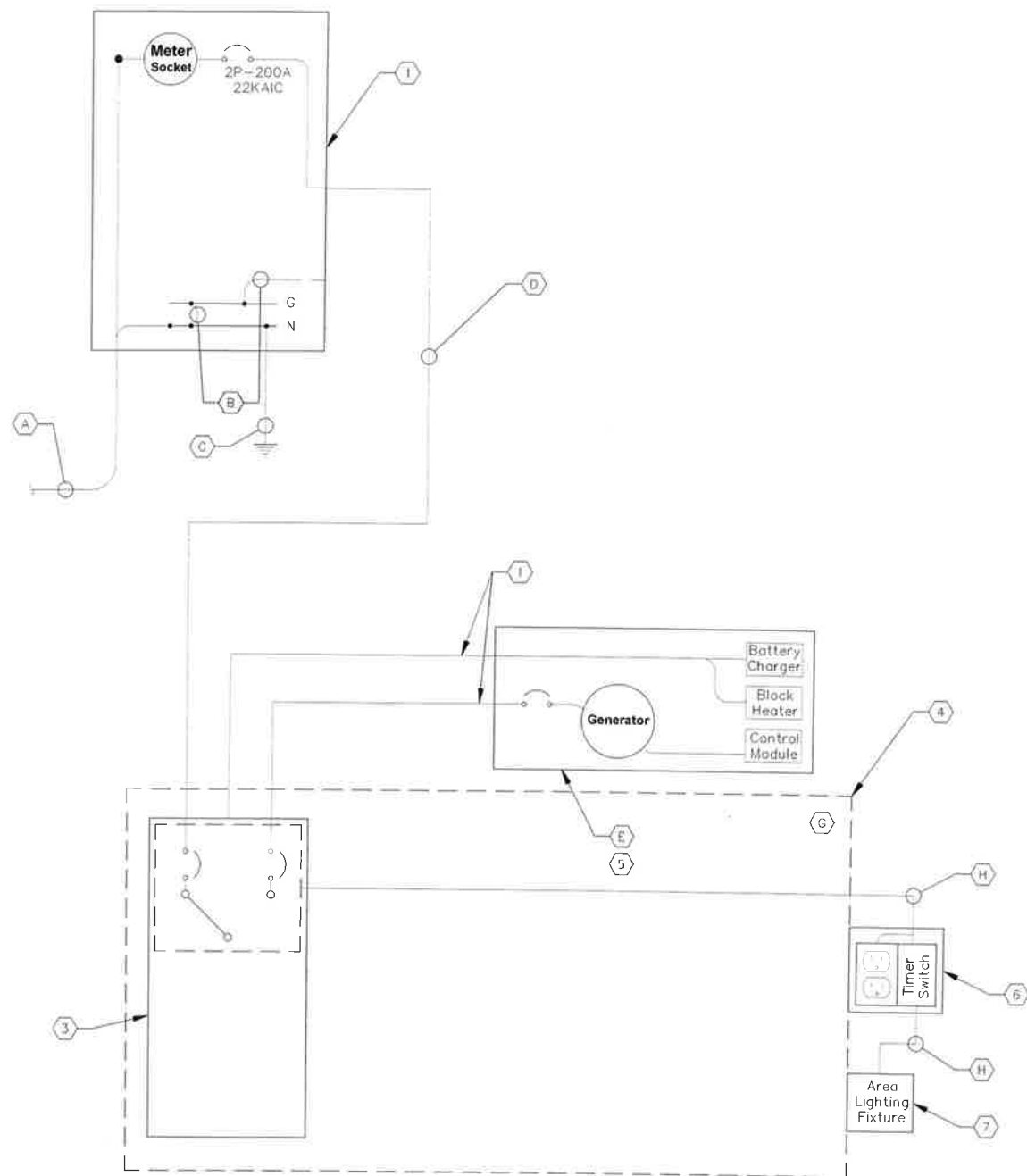
SHEET TITLE:

COMPOUND UTILITY SERVICE PLAN

SHEET NUMBER:

E-3





REQUIRED SIGNAGE PER NEC 702 AT SERVICE DISCONNECT

"WARNING: SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED. OPENING THE EQUIPMENT DISCONNECT WILL CAUSE THE STAND-BY GENERATOR TO START. TO REMOVE POWER ENTIRELY FROM THE EQUIPMENT, THE GENERATOR MUST BE TURNED OFF AND THE GENERATOR CIRCUIT BREAKER MUST BE OPEN."

REQUIRED SIGNAGE PER NEC 702 AT SERVICE DISCONNECT & INTEGRATED LOAD CENTER

"NOTE: EMERGENCY POWER IS SUPPLIED BY A STAND-BY GENERATOR LOCATED IN COMPOUND."

1
E-5 **ELECTRICAL SINGLE LINE DIAGRAM**
SCALE: N.T.S.

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A UNDERGROUND CONDUIT AND CONDUCTORS FOR POWER SERVICE TO SITE TO BE COORDINATED WITH LOCAL POWER COMPANY
- B BOND GROUND BUS TO NEUTRAL BUS AND GROUND BUS TO ENCLOSURE WITH 2/0 BONDING JUMPERS.
- C (1)-2/0 BARE STRANDED TINNED COPPER GEC TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.
- D (1)-3" PVC SCHEDULE 40 CONDUIT WITH CONDUCTORS FROM METER/DISCONNECT TO EQUIPMENT SHELTER
- E WHEN UTILIZING A TWO POLE ATS WITH A SOLID NEUTRAL, IS NOT A SEPARATELY DERIVED SYSTEM. THEREFORE, DO NOT BOND THE NEUTRAL TO THE GROUND AT THE GENERATOR.
- F ONE (1) -2/0 BARE STRANDED TINNED COPPER GEC FROM GROUNDING LUG IN DISCONNECT SWITCH TO GROUND ROD, EXOTHERMIC WELD TO GROUND RING.
- G ALL INTERNAL WIRING BY SHELTER MANUFACTURER.
- H TWO (2) #12 AWG CONDUCTORS AND ONE (1) #12 AWG GROUND IN 3/4" CONDUIT.
- I (1)-3" PVC SCHEDULE 40 CONDUIT AND (1)-2" PVC SCHEDULE 40 PVC CONDUIT WITH CONDUCTORS FOR GENERATOR

KEY NOTES - ELECTRICAL EQUIPMENT

- 1 PROPOSED 3-WIRE, SINGLE PHASE, 120/240 VOLT, METER CENTER IN NEMA 3R ENCLOSURE, SE RATED. CONTRACTOR SHALL FURNISH AND INSTALL 200 AMP CIRCUIT BREAKER AT METER BASE IF NOT ALREADY EXISTING.
- 2 INTEGRATED LOAD CENTER (ILC).
- 3 WALK-IN CABINET (PROVIDED BY OWNER WITH DISCONNECT AND ILC).
- 4 40KW DIESEL GENERATOR, CONTRACTOR SHALL COORDINATE SPECIFIC GENERATOR CONFIGURATION WITH OWNER AND INSTALL THE GENERATOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. GENERATOR PROVIDED AND INSTALLED BY BUILDING MANUFACTURER. GENERATOR BREAKER SIZED AND PROVIDED BY GENERATOR MANUFACTURER.
- 5 20 AMP GFCI DUPLEX OUTLET RECEPTACLE AND TIMER SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE.
- 6 FURNISH AND INSTALL ONE (1) AREA LIGHT, (LITHONIA HFR-250M-TA120-DNA-LP1), (OR APPROVED EQUAL)

verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

Kimley»Horn

6200 SOUTH SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV. DATE DESCRIPTION

REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV. 45" TOWER	WBB
2	08/29/24	REV. V2W COMMENTS	WSG
1	07/30/24	REV. TRANSPORT	WSG
0	06/20/24	WELLSVILLE CD#	WSG

DESIGNED BY: CHECKED BY:

EJZ **MFF**

PROJECT NUMBER:

196015070

ENGINEER SEAL

PROJECT INFORMATION:

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

**ELECTRICAL SINGLE
LINE DIAGRAM**

SHEET NUMBER:

E-5



REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV. 45' TOWER	WBB
2	08/29/24	REV. VZW COMMENTS	WSG
1	07/30/24	REV. TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

EJZ **MFF**

196015070

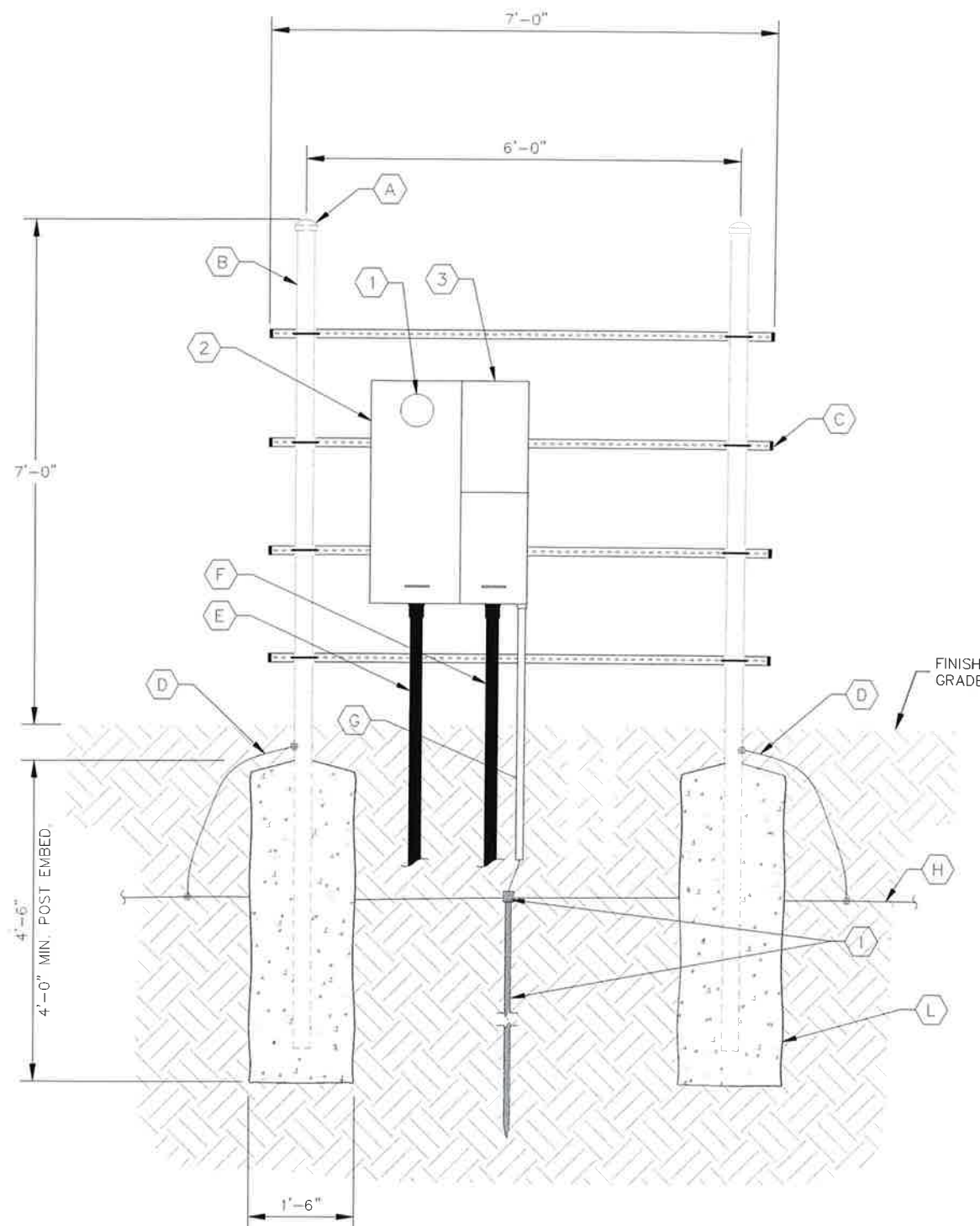
FOR REVIEW

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

METER RACK DETAILS

E-4



KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- (A) GALVANIZED RIGID STEEL CAP, TYPICAL.
- (B) 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- (C) 1 1/2" x 1 1/8" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000 OR APPROVED EQUIVALENT) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- (D) ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTORS (BC) FROM H-FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.
- (E) INCOMING 3" PVC CONDUIT SERVICE LATERALS WITH CONDUCTORS. CONDUCTOR SIZE TO BE COORDINATED WITH LOCAL UTILITY COMPANY.
- (F) 3" PVC CONDUIT WITH CONDUCTORS TO EQUIPMENT SHELTER
- (G) 3/4" PVC CONDUIT WITH ONE (1) - 2/0 BARE STRANDED TINNED COPPER GROUNDING ELECTRODE CONDUCTOR (GEC) FROM GROUNDING LUG TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.
- (H) GROUND RING (SEE "GROUNDING" SHEETS).
- (I) GROUND ROD, EXOTHERMIC WELD TO GROUND RING. (SEE "GROUNDING" SHEETS).
- (L) CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AND INCLUDE FIBERMESH 300-3E.

KEY NOTES - ELECTRICAL EQUIPMENT

- (1) 200 AMP METER SOCKET IN NEMA 3R ENCLOSURE
- (2) MILBANK 200 AMP SERVICE ENTRANCE RATED, 4 TERMINAL RING TYPE PLAIN TOP 1-200 MAIN BREAKER
- (3) 200 AMP, 2 POLE (22KAIC) DISCONNECT CIRCUIT BREAKER IN METER MAIN. BOND METER MAIN RACK PER NEC.

1 **METER RACK DETAILS**
E-4 SCALE: N.T.S

PANEL SCHEDULE - VERIZON INTEGRATED LOAD CENTER

Voltage: 240/120 Volts
Phase, Wires: Single Phase, 3 Wire
Mounting Type: Surface
Enclosure Type: NEMA 3R

MCB Size: 200 Amps
AIC Rating: 10,000 Amps min
Bus Rating: 200 Amps
Neutral Rating: 100%

Load Served	Load (kVA)		Circuit Bkr Size	Ckt Nbr	Phase A B	Ckt Nbr	Circuit Bkr Size	Load (kVA)		Load Served
	A	B						A	B	
*RECTIFIER 1	2.04		2P-30	1		2	1P-20	1.54		*AREA LIGHTS/GFCI
		2.04		3		4	1P-20		1.50	**GEN BLOCK HEATER
*RECTIFIER 2	2.04		2P-30	5		6	1P-20	0.30		**GEN BATTERY CHARGER
		2.04		7		8	1P-20		0.18	CAB DUPLEX OUTLET
*RECTIFIER 3	2.04		2P-30	9		10	----	0.00		SPACE
		2.04		11		12	----	0.00		SPACE
*RECTIFIER 4	2.04		2P-30	13		14		1.00		RECTIFIER 7 (HVAC UNIT)
		2.04		15		16	2P-60		1.00	
*RECTIFIER 5	2.04		2P-30	17		18		1.00		RECTIFIER 8 (HVAC UNIT)
		2.04		19		20	2P-60		1.00	
*RECTIFIER 6 (FUTURE)	2.04		2P-30	21		22	----	0.00		SPACE
		2.04		23		24	----	0.00		SPACE
SPACE	0.00		----	25		26	----	0.00		SPACE
SPACE		0.00	----	27		28	----	0.00		SPACE
SPACE	0.00		----	29		30	----	0.00		SPACE
SPACE		0.00	----	31		32	----	0.00		SPACE
SPACE	0.00		----	33		34	----	0.00		SPACE
SPACE		0.00	----	35		36	----	0.00		SPACE
SPACE	0.00		----	37		38	----	0.00		SPACE
TVSS (INTERNAL TO ILC)		0.00	2P-30	39		40	----	0.00		SPACE
	0.00			41		42	----	0.00		SPACE
								16.08	15.92	Sub-Total (kVA)

LOAD SUMMARY

	A B	
	16.08	15.92
Demand Factor	32.00	
	134.0	
Total Connected (kVA)		
	168	
Demand Current (Amps)		
	184	
Total Demand Current		
	184 (MAIN)	

*NOTE: CIRCUIT LOADS AND DEMAND FACTOR PROVIDED BY VERIZON
 **NOTE: CHARGER LOAD REMOVED AND HEATER LOAD DEMAND FACTOR REDUCED TO 1.00 DURING GENERATOR OPERATION.



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REV. DATE DESCRIPTION

3	02/05/25	REV: 45' TOWER	WSB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: CHECKED BY:

EJZ
MFF

PROJECT NUMBER:

196015070

ENGINEER SEAL:



PROJECT INFORMATION:

WELLSVILLE

TBD
 SALIDA, CO 81201
 FREMONT COUNTY

SHEET TITLE:

PANEL SCHEDULE

SHEET NUMBER:

E-6

GROUNDING NOTES

1. THE GROUND RING SHALL CONSIST OF #2 AWG BARE SOLID TINNED COPPER (STC) CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE (OR BELOW FROST LINE). LOCATE 24" MINIMUM AND 36" MAXIMUM FROM EQUIPMENT PAD AND FROM TOWER FOUNDATION. ALL CONNECTIONS SHALL BE MADE USING A PARALLEL TYPE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
2. INSTALL GROUND RODS AS SHOWN AND AS REQUIRED. GROUND RODS TO BE COPPER CLAD STEEL, 5/8" DIAMETER AND 10FT IN LENGTH. SPACING BETWEEN GROUND RODS SHALL BE 10FT MINIMUM AND 15FT MAXIMUM. TOP OF GROUND ROD TO BE 30" MINIMUM BELOW GRADE (OR BELOW FROST LINE). BOND TOP OF GROUND ROD TO GROUND WIRE WITH EXOTHERMIC WELD. DO NOT EXOTHERMICALLY WELD ANYTHING TO GROUND ROD EXCEPT GROUND WIRE WHICH PASSES OVER TOP OF GROUND ROD (CLAMPED CONNECTIONS TO GROUND ROD PER TOWER MANUFACTURERS DETAILS ARE ACCEPTABLE).
3. TOWER GROUND RING SHALL HAVE A MINIMUM OF 3 GROUND RODS.
4. TOWER GROUND RING SHALL BE BONDED TOGETHER WITH TWO #2 STC GROUND LEADS.
5. BOND TOWER TO TOWER GROUND RING AT THREE LOCATIONS WITH #2 STC GROUND LEAD. SELF SUPPORT TOWERS SHALL HAVE EACH LEG BONDED TO GROUND RING. MONOPOLES AND GUYED TOWERS SHALL HAVE GROUND LEADS EQUALLY SPACED AROUND TOWER. EXOTHERMICALLY WELD GROUND LEADS TO TOP OF BASE PLATES, OR ATTACH TO TOWER USING TOWER MANUFACTURER PROVIDED DETAIL.
6. PROVIDE #2 STC RADIALS FROM THE TOWER GROUND RING TO EACH FENCE CORNER POST. RADIALS SHALL HAVE GROUND RODS AS PER THE REQUIRED SPACING. THE GROUND ROD AT THE END OF EACH RADIAL SHALL BE 24" MAXIMUM FROM FENCE CORNER POST.
7. MINIMUM BEND RADIUS FOR #2 AWG GROUND WIRE IS 12", EXCEPT USE 24" FOR TOWER GROUND RINGS.
8. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS USE TWO HOLE LUGS FOR CONNECTION TO FLAT METAL SURFACES. USE ONLY STAINLESS STEEL HARDWARE ON ALL MECHANICAL CONNECTIONS. CLEAN ALL SURFACES (AND STRIP PAINTED SURFACES) TO BARE BRIGHT METAL PRIOR TO MAKING GROUND CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL CONNECTIONS. APPLY ZINC RICH PAINT (COLD GALV.) TO ALL EXOTHERMIC WELDS, AND TO ANY METAL EXPOSED BY CLEANING, STRIPPING, GRINDING, CUTTING OR DRILLING.
9. ALL GROUNDING CONDUCTORS ABOVE GRADE SHALL BE RUN IN 3/4" FLEXIBLE PVC CONDUIT. CONDUIT SHALL BEGIN WITHIN 3/4" OF ABOVE GROUND CONNECTION POINT, SHALL EXTEND 24" BELOW GRADE MINIMUM, AND SHALL BE FILLED WITH SEALANT AT ABOVE GROUND CONNECTION POINT. SECURE CONDUIT EVERY 24" ON VERTICAL RUNS AND EVERY 36" ELSEWHERE WITH NON-METALLIC TIES.
10. PROVIDE TWO GROUND RODS OUTSIDE GATES OF COMPOUND. DISTANCE BETWEEN GROUND RODS SHALL MATCH WIDTH OF GATE OPENING, AND DISTANCE FROM FENCE SHALL MATCH LENGTH OF LONGEST INDIVIDUAL GATE LEAF. BOND GATE POSTS TOGETHER WITH #2 STC LEAD WHICH RUNS PAST AND CONNECTS TO GROUND RODS OUTSIDE GATES.
11. BOND EACH GATE POST WITH #2 STC TO NEAREST PORTION OF GROUNDING SYSTEM INSIDE COMPOUND.
12. BOND EACH GATE TO GATE POST WITH FLEXIBLE INSULATED OR BRAIDED #4/0 COPPER STRAP. EXOTHERMICALLY WELD STRAP TO BOTH GATE AND GATE POST.
13. ANY FENCE POST WITHIN 6FT OF A GROUNDED METAL OBJECT SHALL BE BONDED TO THE NEAREST GROUND RING. ANY FENCE WITHIN 6FT OF A GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING AT 20FT MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.
14. NOTIFY VERIZON WIRELESS CM TO INSPECT GROUND RING BEFORE BACKFILLING. CONTRACTOR SHALL HIRE A 3RD PARTY TO PERFORM AN IEEE81 FALL OF POTENTIAL METHOD GROUND TEST. MAXIMUM ALLOWABLE RESISTANCE TO GROUND IS 5 OHMS. PROVIDE ADDITIONAL GROUND SYSTEM COMPONENTS AS REQUIRED TO ACHIEVE THIS VALUE.
15. GROUNDING OF ALL ELECTRICAL EQUIPMENT SHALL BE AS PER NEC, MUNICIPAL AND UTILITY COMPANY REQUIREMENTS.



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REV.	DATE	DESCRIPTION	BY
3	02/05/25	REV: 45' TOWER	WBB
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DESIGNED BY: **EJZ** CHECKED BY: **MFF**

PROJECT NUMBER: **196015070**

FOR REVIEW

PROJECT INFORMATION:
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE: **GROUNDING NOTES**

SHEET NUMBER: **G-1**

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Kimley»Horn

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DESIGN BY: CHECKED BY:

EJZ **MFF**

PROJECT NUMBER:

196015070

ENGINEER SEAL:

FOR REVIEW

PROJECT INFORMATION:

WELLSVILLE

TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

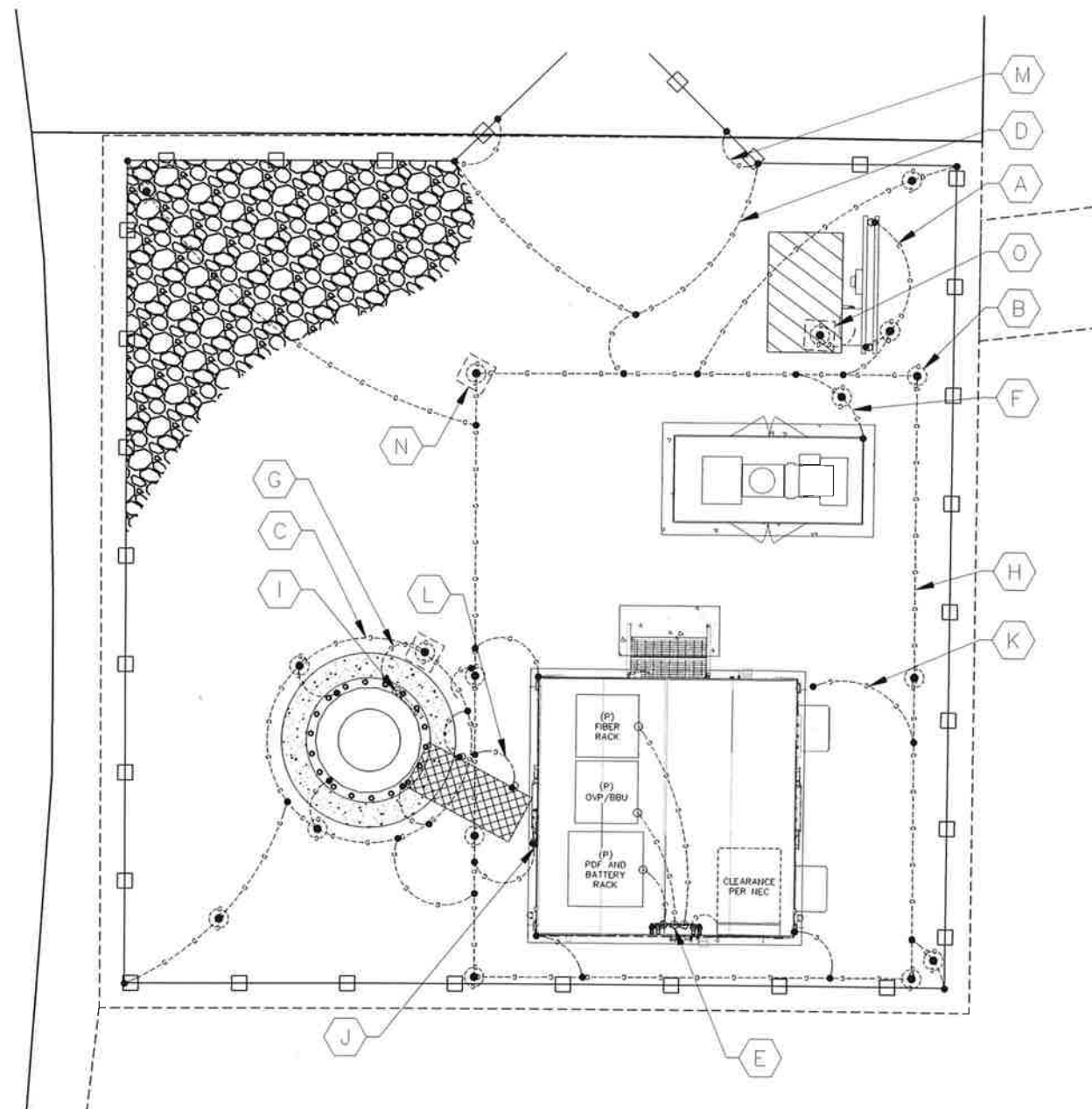
GROUNDING PLAN

SHEET NUMBER:

G-2

KEY NOTES - GROUNDING EQUIPMENT

- A UTILITY H-FRAME GROUNDING, TYPICAL (SEE DETAIL 1/E4).
- B GROUNDING ROD (SEE DETAILS ON G-3).
- C TOWER GROUNDING RING (SEE NOTES 1, 3 AND 4 ON G-1).
- D GATE GROUNDING TYPICAL (SEE NOTES 11, 12, & 13 ON SHEET G-1).
- E EQUIPMENT ROOM MASTER INTERNAL GROUND BAR GROUNDING
- F GENERATOR GROUNDING
- G TOWER STEEL GROUNDING (TYP.)
- H SHELTER GROUND RING
- I TOWER BOTTOM GROUND BAR
- J EXTERNAL SHELTER GROUND BAR
- K SHELTER GROUNDING (TYP.)
- L ICE BRIDGE SUPPORT POST GROUNDING
- M FENCE GATE BONDING (TYP.)
- N GROUND ROD TEST WELL TYPICAL (SEE DETAIL 1/G3)
- O SERVICE ENTRY GROUND (SEE SHEET E-4)

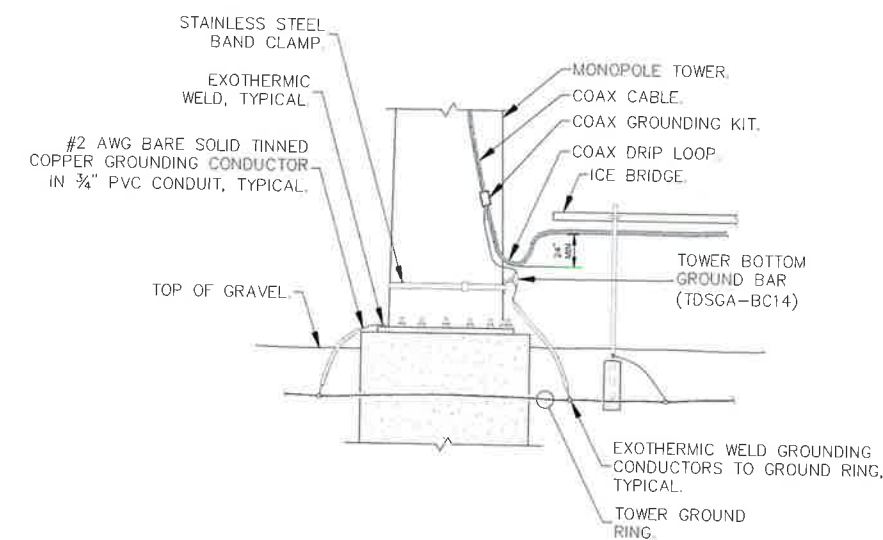


1
G-2
GROUNDING PLAN
SCALE: 1" = 3'
SCALE BASED ON 24"X36" ONLY



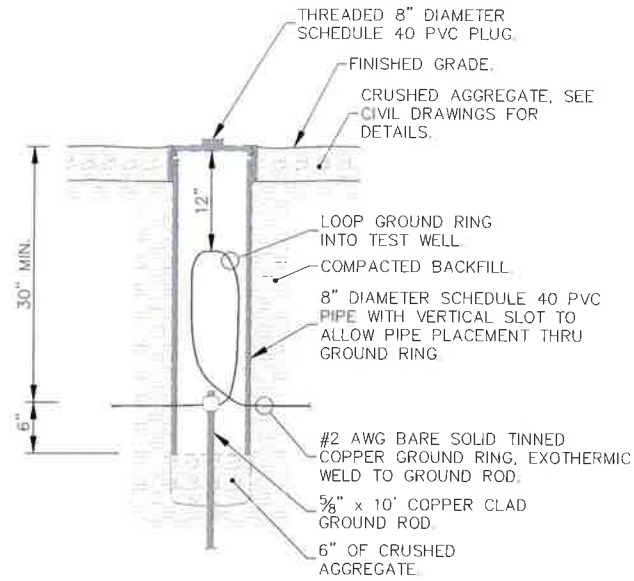
LEGEND:

- GROUND RING
- GROUND ROD EXOTHERMICALLY WELDED TO GROUND RING
- EXOTHERMIC WELD
- GROUND ROD TEST WELL (SEE DETAIL 1/E8)
- MECHANICAL CONNECTION

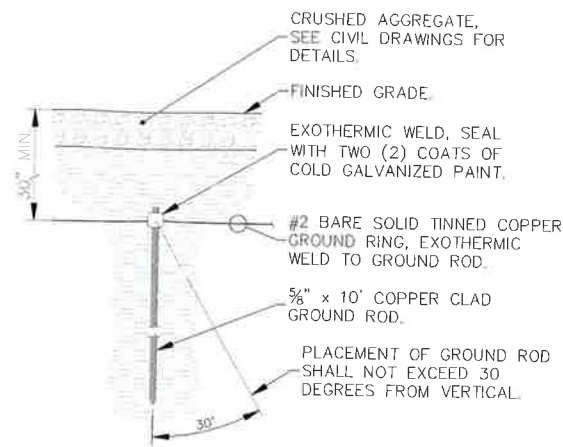


2
G-2
TOWER GROUNDING ELEVATION
SCALE: N.T.S.



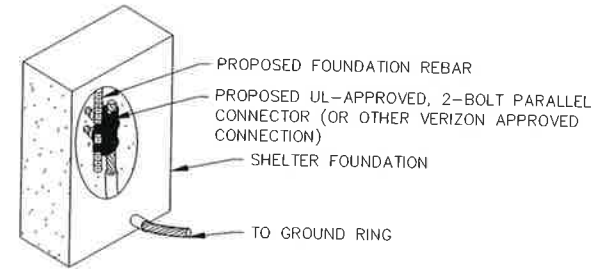


1
G-3 **GROUND ROD TEST WELL DETAIL**
SCALE: N.T.S.

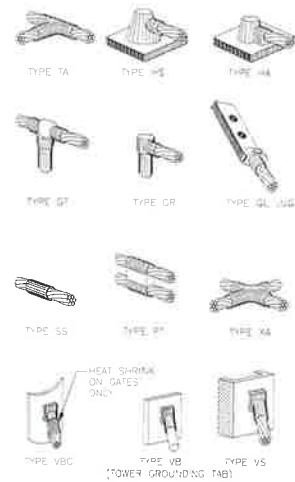


2
G-3 **GROUND ROD INSTALLATION DETAIL**
SCALE: N.T.S.

NOTES:
1. CONNECTION SHALL BE COVERED BY NO LESS THAN 2" OF CONCRETE.
2. ATTEMPT TO MAKE CONNECTION TO A 6' RUN OF REBAR OR GREATER.
3. APPLY HEAT SHRINK OR ELECTRICAL TAPE AROUND THE CONDUCTOR TO AVOID CORROSION.

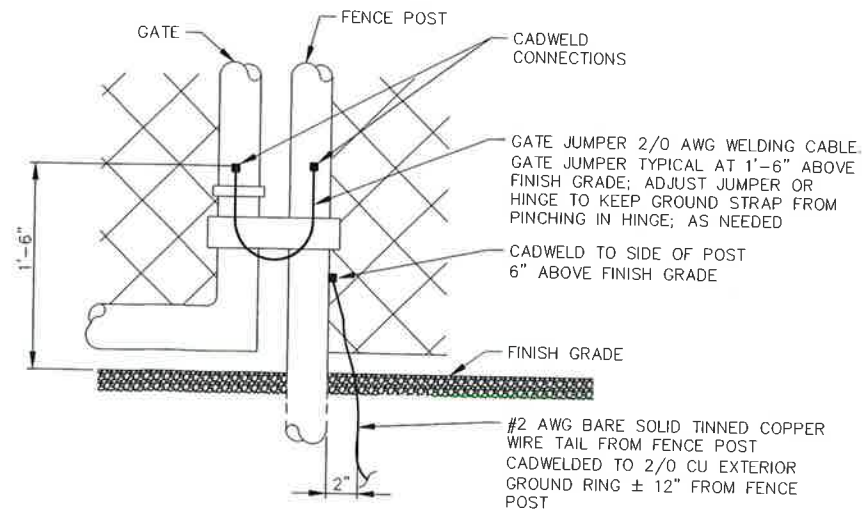


3
G-3 **EQUIPMENT PAD BONDING DETAIL**
SCALE: N.T.S.



NOTES:
1. CADWELD TYPES SHOWN ABOVE ARE EXAMPLES. PROVIDE APPROPRIATE TYPES AS REQUIRED.

4
G-3 **CADWELD DETAIL**
SCALE: N.T.S.



5
G-3 **FENCE GATE BONDING DETAIL**
SCALE: N.T.S.

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EJZ **MFF**

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FOR REVIEW

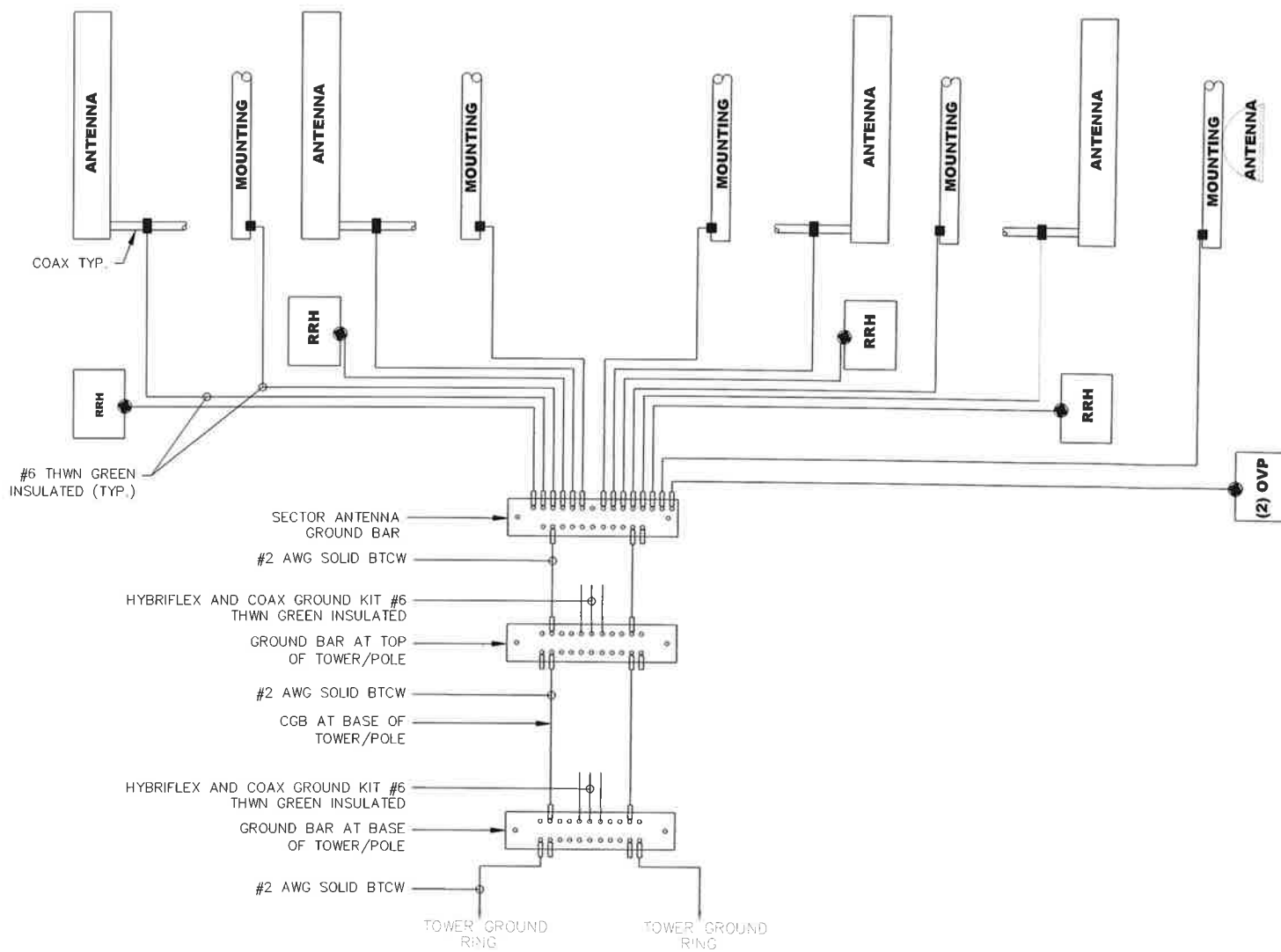
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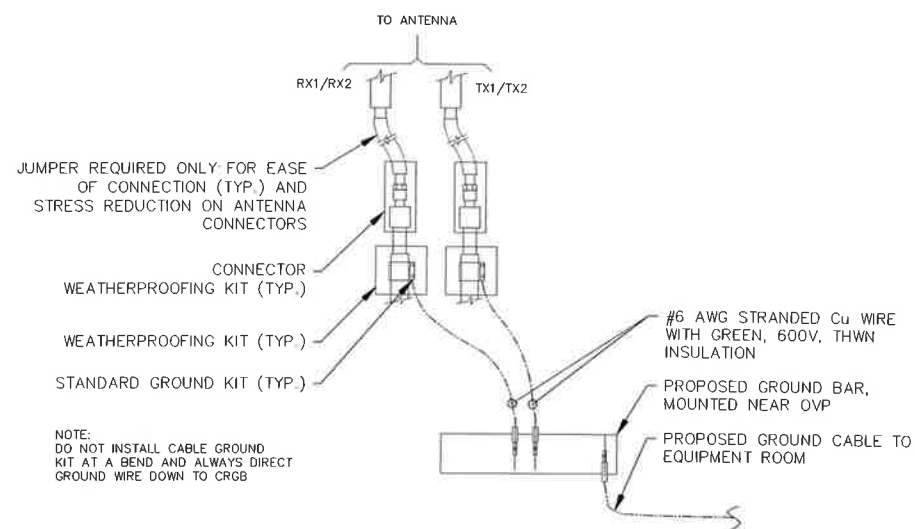
GROUNDING DETAILS

G-3

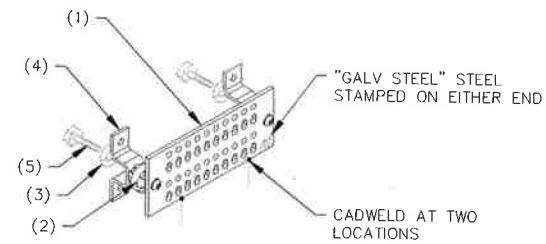




1 G-4 GROUNDING RISER DIAGRAM
SCALE: N.T.S.

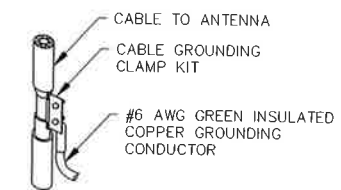


3 G-4 ANTENNA GROUNDING DETAIL
SCALE: N.T.S.

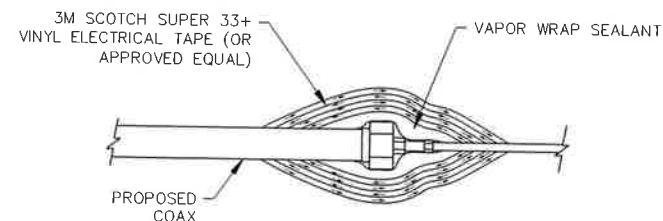


1. GALVANIZED STEEL GROUND BAR, BY ELECTRIC MOTION COMPANY OR APPROVED EQUAL (SEE SCHEDULE BELOW).
2. INSULATORS, BY HARGER CAT #5263-A5.
3. 5/8" LOCKWASHERS, STAINLESS STEEL.
4. WALL MOUNTING BRACKET, HARGER CAT. #WBKT-2.
5. 5/8-11x3" H.H.C.S. BOLTS, STAINLESS STEEL.

2 G-4 GROUND BAR DETAIL
SCALE: N.T.S.



4 G-4 TYPICAL CABLE GROUNDING DETAIL
SCALE: N.T.S.



5 G-4 WEATHERPROOFING DETAIL
SCALE: N.T.S.



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PLANS PREPARED BY

REV. DATE DESCRIPTION

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0	06/20/24	WELLSVILLE CDS	WSG

DESIGN BY	CHECKED BY
EJZ	MFF

KIMLEY-HORN PROJECT NUMBER
196015070

FOR REVIEW

PROJECT INFORMATION

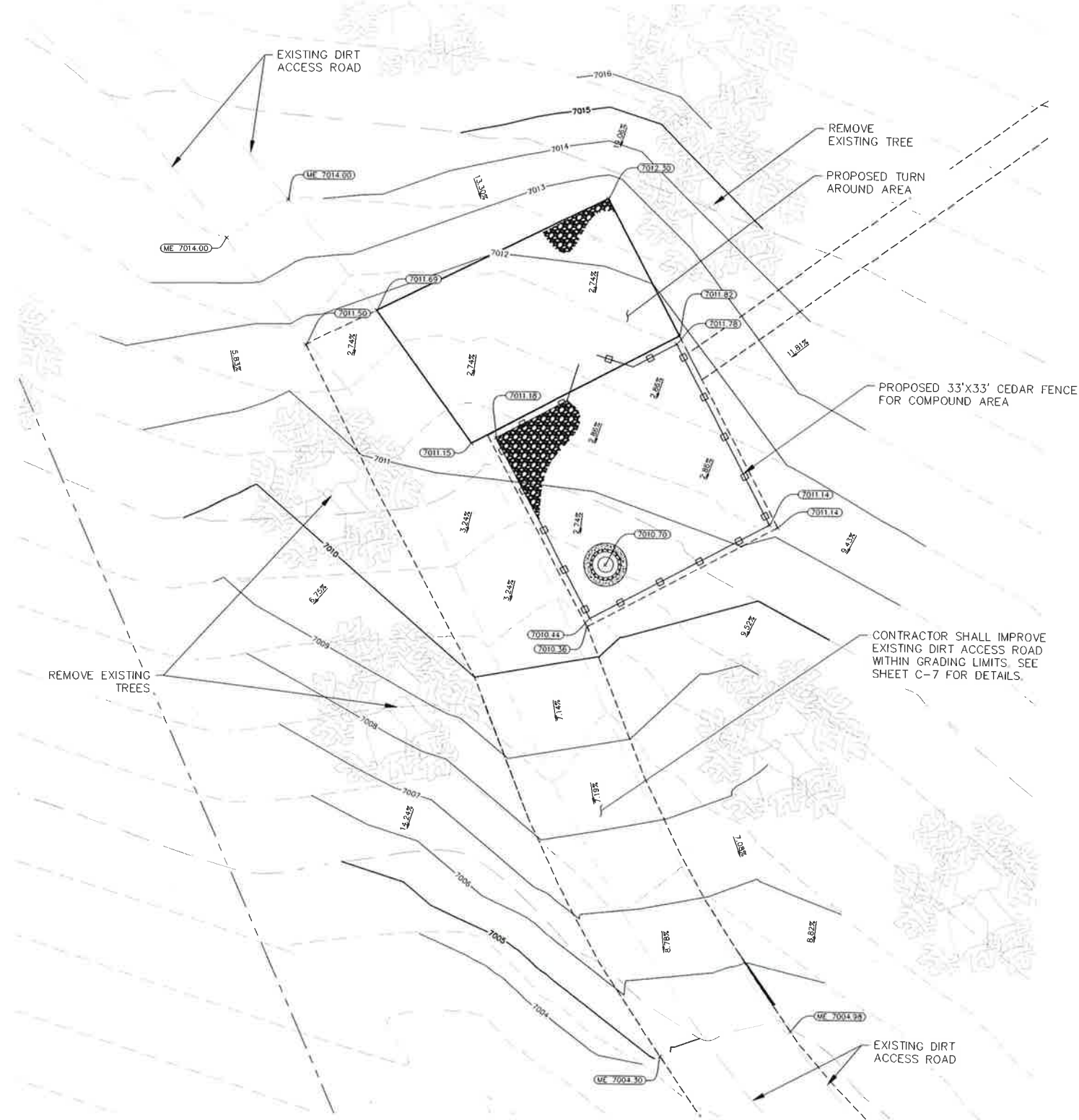
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

G-4



1
GD-1
GRADING PLAN
SCALE: 1" = 10'
SCALE BASED ON 24"X36" ONLY

LEGEND:

- MATCH EXISTING ELEVATION
- PROPOSED ELEVATION
- SLOPE ARROW
- PROPOSED CONTOUR
- EXISTING CONTOUR

GRADING NOTES:

1. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
2. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS OR IN THE FIELD THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK IN QUESTION.
3. CONTRACTOR TO PROTECT OR PRESERVE ALL HISTORICAL OR CONTROL MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. ALL MONUMENTS SHALL BE SET IN ACCORDANCE WITH COLORADO REVISED STATUTES TITLE 12, ARTICLE 25, PART 2.
4. THE AREA WHICH IS DEFINED AS A NON-GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE LOCAL OR FEDERAL AGENCY.
5. EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM SURVEY PREPARED BY RLF CONSULTING DATED JANUARY 20TH, 2024.
6. IF ANY TIME DURING THE GRADING OPERATION, ANY UNFAVORABLE, GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
7. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
8. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE DURING INTERIM CONDITIONS OF CONSTRUCTION.

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REV.	DATE	DESCRIPTION	BY
0	05/29/24	GRADING PLAN	BAB

GRAPHER	CHECKED BY
EJZ	MFF
PROJECT NUMBER	
196015070	

FOR REVIEW

PROJECT INFORMATION

WELLSVILLE

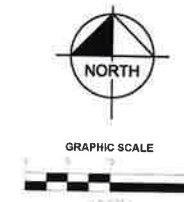
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE

SITE GRADING PLAN

SHEET NUMBER

GD-1



STRUCTURAL GENERAL NOTES

1.00 DOCUMENTS AND LIMITATIONS

- 1.01 THE DRAWINGS, CALCULATIONS, AND REPRODUCTIONS RELATING TO THE STRUCTURAL PART OF THE PROJECT ARE INSTRUMENTS OF SERVICE TO BE USED ONLY FOR THIS PROJECT.
- 1.02 IT IS UNDERSTOOD THAT THE STRUCTURAL ENGINEER OF RECORD MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.
- 1.03 ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THE RELATIONSHIP TO THE STRUCTURAL ELEMENTS. ACCORDINGLY, THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

2.00 CONSTRUCTION SAFETY

- 2.01 IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PERSONS AND PROTECT THEM AGAINST INJURY. LIKEWISE, THE CONTRACTOR SHALL PROTECT ALL PROPERTY AGAINST DAMAGE OR LOSS.
- 2.02 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY.
- 2.03 THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.

3.00 DIMENSIONS

- 3.01 BEFORE STARTING WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE, AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- 3.02 THE CONTRACTOR, BEFORE STARTING ANY WORK, SHALL CHECK ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS, RELATING TO SITE ELEMENT LOCATIONS, ELEVATIONS, ETC., WITH THE ARCHITECTURAL, AND CIVIL DRAWINGS. IF ANY DISCREPANCY IS NOTICED, IT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, AND THE ENGINEER, AND WORK SHALL NOT COMMENCE UNTIL INSTRUCTIONS ARE RECEIVED FROM THE ENGINEER.
- 3.03 THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR THEIR INSTRUCTIONS FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THESE DRAWINGS.

4.00 REINFORCED CONCRETE (CAST-IN-PLACE)

- 4.01 THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY (TO BE RETAINED BY THE OWNER) WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR THEIR REVIEW.
- 4.02 DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.
- 4.03 CONCRETE MIX DESIGN FOR ALL CONCRETE WORK IS REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW. IT IS TO BE NOTED THAT THE CONCRETE SUPPLIER SHALL HAVE A QUALITY CONTROL PROCEDURE FOR THE PRODUCTION OF ALL CONCRETE, WHICH MUST BE ACCEPTABLE TO THE ENGINEER AND MEETS CURRENT ACI STANDARDS.
- 4.04 CONSTRUCTION JOINTS, SHALL BE AS APPROVED BY THE STRUCTURAL ENGINEER AND THE ARCHITECT. ENGINEER SHALL BE INFORMED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONCRETE WORK.
- 4.05 A COPY OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI SP 15 "FIELD REFERENCE MANUAL" SHALL BE KEPT IN THE PROJECT FIELD OFFICE AT ALL TIMES.
- 4.06 CAST-IN-PLACE CONCRETE PROPERTIES:

DESCRIPTION	F _c MIX (PSI)	MAXIMUM CHLORIDE ION	MAXIMUM W/C RATIO	AVERAGE ENTRAINED AIR
FOUNDATIONS	4500 STD	0.30	0.45	N/A
SLAB ON GRADE	4500 STD	0.15	0.40	6%

NOTES:

- 1. STD DESIGNATES A CONCRETE MIX DESIGN IN ACCORDANCE WITH GREENBOOK SPECIFICATION SECTION 03300, WHICH DOES NOT REQUIRE A GGBS/FLY ASH OR CALCIUM NITRIDE ADMIXTURE. REFER TO CIVIL PLANS.
- 2. AVERAGE AIR-ENTRAINED VALUES ARE FOR IN-PLACE CONCRETE. TOLERANCE ON TOTAL AIR CONTENT IS ±1½% PER ACI.
- 3. ALL NORMAL WEIGHT CONCRETE TO HAVE A DENSITY OF APPROXIMATELY 145 PCF UNLESS NOTED.
- 4. ALL AIR-ENTRAINED CONCRETE SHALL INCLUDE 564 LBS OF CEMENTITIOUS MATERIAL MINIMUM PER CUBIC YARD OF CONCRETE. THE WEIGHT OF FLY ASH AND GGBS ADMIXTURES MAY BE INCLUDED WITH THE WEIGHT OF CEMENTITIOUS MATERIAL.
- 4.07 REINFORCING: ASTM A615, GRADE 60, FOR SLABS, WALLS, AND FOUNDATIONS IS ACCEPTABLE.
- 4.08 BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES AS SHOWN ON THE STRUCTURAL DRAWINGS.
- 4.09 CLEAR DISTANCE FROM FACE OF CONCRETE TO STEEL SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT SHOWN, ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" TABLE 20.6.1.3.1 SHALL BE FOLLOWED.
- 4.10 PROVIDE 3/4 INCH CHAMFERS AT ALL EXPOSED EDGES UNO.

5.00 REINFORCING

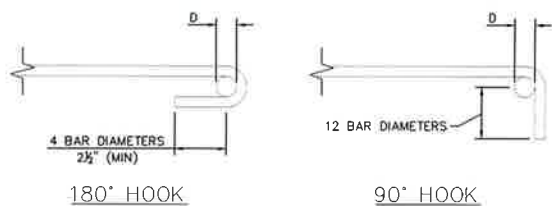
- 5.01 BAR SUPPORTS, DESIGN, DETAILING, FABRICATION, AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-19 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND ACI 315-94 (DETAILING MANUAL).

6.00 DESIGN LOADS

- 6.01 2018 INTERNATIONAL BUILDING CODE
- 6.02 DEAD: EMPTY CABINET WEIGHT: 7,850 LBS
FULL CABINET WEIGHT: 13,850 LBS
- 6.03 LIVE: LIVE FLOOR LOAD = 100 PSF
- 6.04 SNOW: ROOF SNOW LOAD = 35 PSF (MIN)
- 6.05 WIND: V_{ult} = 115 MPH
V_{asd} = 95 MPH
EXPOSURE CATEGORY = C
- 6.06 SOIL BEARING: 1500 PSF
RISK CATEGORY II

7.00 FOUNDATIONS

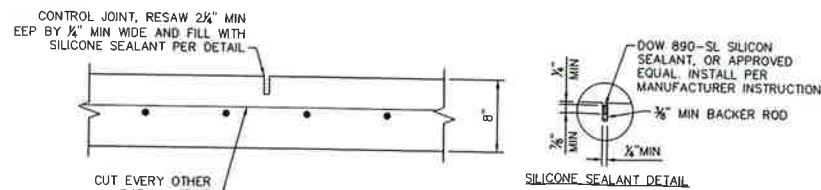
- 7.01 COMPLY WITH THE STRUCTURAL GENERAL NOTES ON THIS SHEET. UNLESS OTHERWISE SPECIFIED THE FOLLOWING NOTES RELATING TO THE FOUNDATION PLAN SHALL GOVERN.
- 7.02 ALL FOUNDATIONS SHALL BE CENTERED ON COLUMN GRID LINES, E.G. COLUMNS, WALLS, ETC., UNLESS NOTED OTHERWISE.
- 7.03 ALL FOUNDATION WORK RELATING TO THE INSTALLATION OF REBARS, SHALL BE INSPECTED AND APPROVED BY THE TESTING LABORATORY.
- 7.04 FOUNDATION DESIGN IS BASED ON PRESUMPTIVE SOIL VALUES FROM IBC 2018 TABLE 1806.2.
- 7.05 REFER TO PLUMBING, MECHANICAL, FIRE PROTECTION, CIVIL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF OPENINGS THROUGH CIP CONCRETE, AND ALL NECESSARY EMBEDDED ITEMS AS REQUIRED.
- 7.06 WHERE SHOWN, BUT NOT SPECIFICALLY NOTED, PROVIDE STANDARD ACI 90 DEGREE OR 180 DEGREE HOOK, AS APPLICABLE, TO REBAR.
- 7.07 PROVIDE CLASS B LAPS FOR ALL REBAR SPLICES RELATING TO FOUNDATION WORK UNLESS NOTED OTHERWISE. REFER TO OTHER STRUCTURAL SHEETS FOR SPLICES RELATING TO OTHER STRUCTURAL DRAWINGS.
- 7.08 REFER TO CIVIL (C) DRAWINGS FOR PROPERTY LINES.



SPLICE TABLE	
BAR SIZE	SPLICE LENGTH
#5	2'-2"

HOOK TABLE	
BAR SIZE	D
#4	3"
#5	3 3/4"

1 REINFORCING HOOK DIMENSIONS
SCALE: NTS



2 CONTROL JOINT DETAIL
SCALE: NTS

NOTES:
JOINT SHALL BE SAWED IMMEDIATELY AFTER INITIAL SET, BEFORE CONCRETE BEGINS TO COOL, AS SOON AS CONCRETE SURFACE IS FIRM ENOUGH NOT TO BE DAMAGED BY THE BLADE, AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM.

verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

PLANS PREPARED BY:

Kimley»Horn

6200 S SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV. DATE DESCRIPTION BY

2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDS	WSG

DRAWN BY: CHECKED BY:

WSG EJE

KHA PROJECT NUMBER:

196015070

ENGINEER SEAL:

PROJECT INFORMATION:

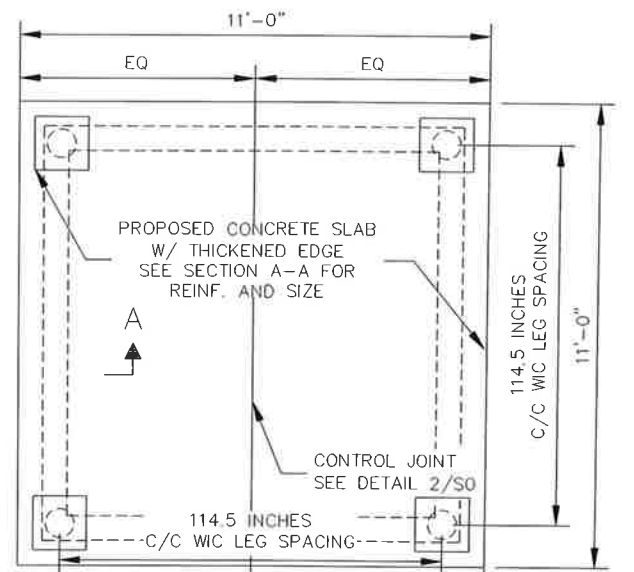
WELLSVILLE
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

**GENERAL
STRUCTURAL NOTES**

SHEET NUMBER:

S-0



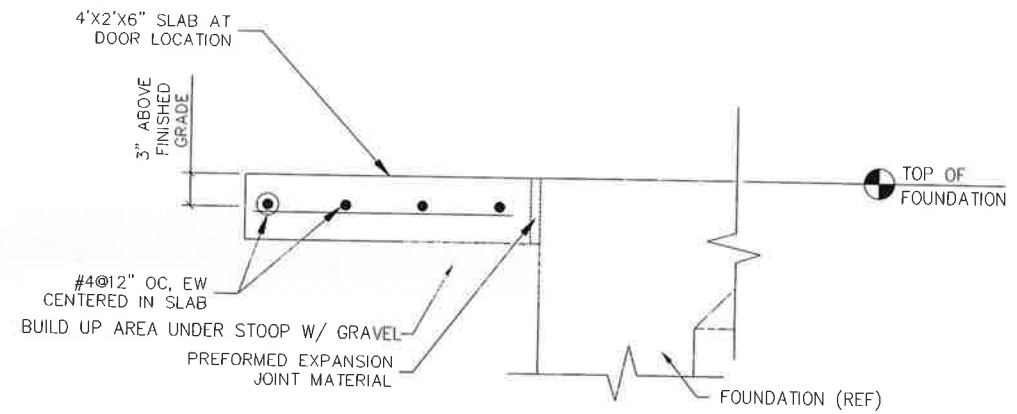
DOOR STOOP
(SEE STOOP DETAIL)

LOCATE STOOP AT ϕ OF DOOR
LOCATION REFERENCE SHELTER
MANUFACTURER'S DRAWINGS FOR
LOCATION

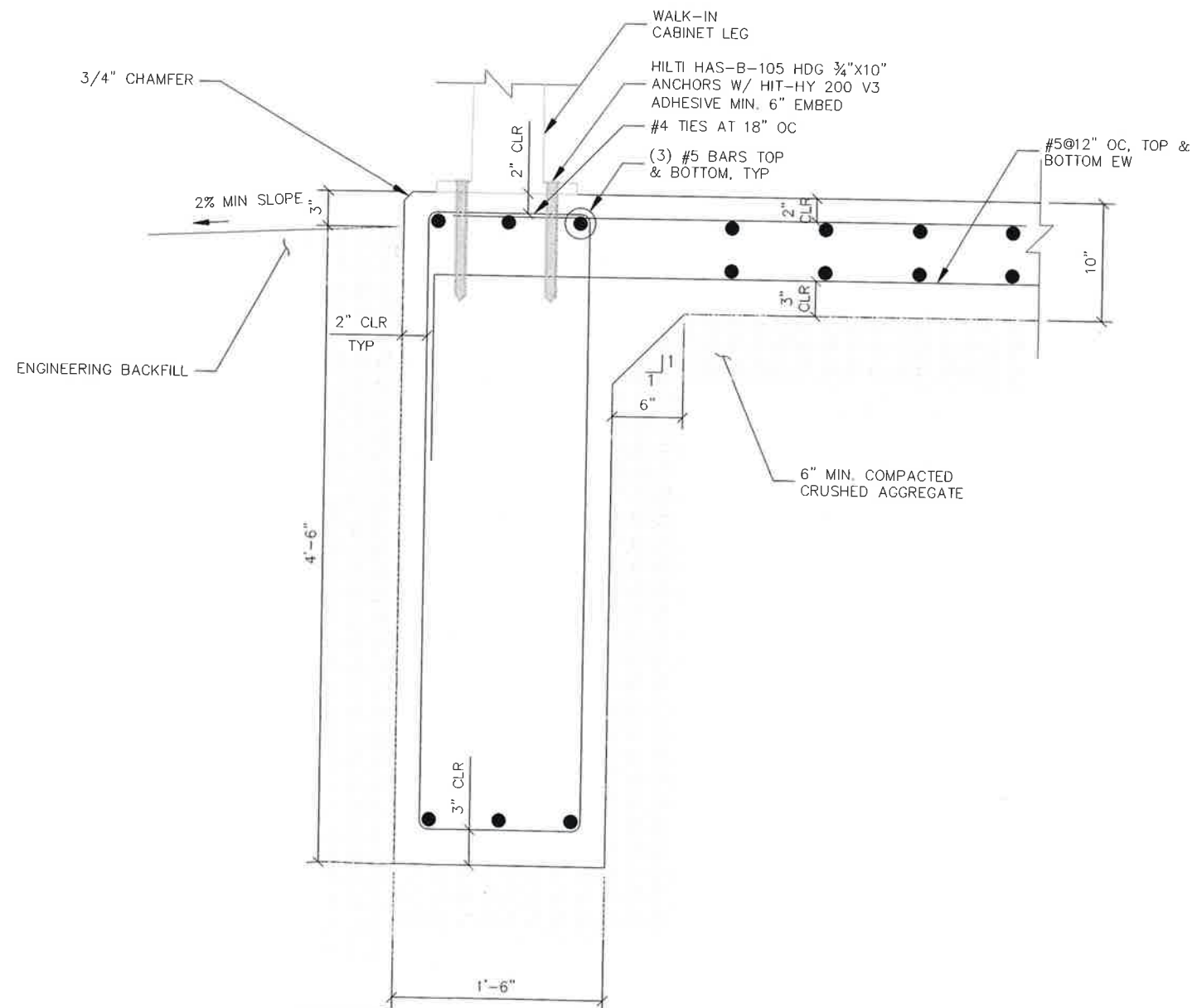
PLAN VIEW
SCALE : NTS

NOTES:

- FOUNDATION HAS BEEN DESIGNED FOR CLAYEY SOILS UNDER IBC 2021 SECTION 1806.2. THE SOIL SHALL HAVE AT A MINIMUM THE FOLLOWING PROPERTIES:
 - ALLOWABLE BEARING: 1,500 PSF
 - ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF/FT
 - COHESION: 130 PSF
- FOUNDATION IS DESIGNED TO SUPPORT THE CHARLES WIC-101010SZANI 10'L x 10'W x 10'H WALK IN CABINET. SHOULD CABINET DIFFERENTIATE FROM THE CHARLES CABINET LISTED ABOVE, FOR SHALL BE CONTACTED PRIOR TO CONSTRUCTION.
- REFERENCE "C" SHEETS FOR STRUCTURE LOCATIONS, DIMENSIONAL CONTROL, GRADING, AND ELEVATIONS.
- CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANCHOR BOLT CIRCLE SHALL BE PER CHARLES LT-WIC101010SZ SPECIFICATION FOR CONCRETE PIER INSTALLATION.
- IT IS THE RESPONSIBILITY OF THE APPLICANT TO INSURE UNIFORM BUILDING CODES ARE ADHERED TO.



1 STOOP DETAIL
SCALE : NTS



SECTION A-A: THICKENED EDGE DETAIL
SCALE : 1" = 1'-0"

verizon

10000 PARK MEADOWS DRIVE,
SUITE 200, LONE TREE, CO 80124

PLANS PREPARED BY:

Kimley»Horn

6200 S SYRACUSE WAY #300
GREENWOOD VILLAGE, CO 80111
PHONE (303) 228-2300
WWW.KIMLEY-HORN.COM

REV: DATE: DESCRIPTION: BY:

REV	DATE	DESCRIPTION	BY
2	08/29/24	REV: VZW COMMENTS	WSG
1	07/30/24	REV: TRANSPORT	WSG
0	06/20/24	WELLSVILLE CDs	WSG

DRAWN BY: CHECKED BY:

WSG EJE

KHA PROJECT NUMBER:

196015070

ENGINEER SEAL:

PROJECT INFORMATION:

WELLSVILLE

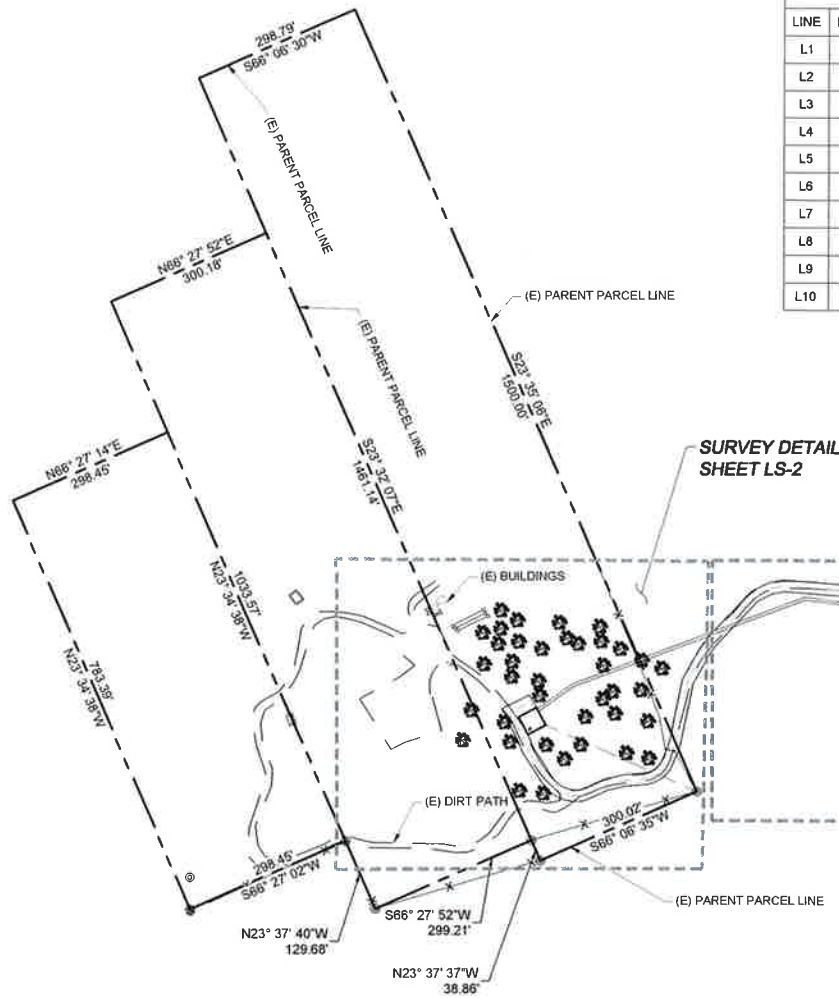
TBD
SALIDA, CO 81201
FREMONT COUNTY

SHEET TITLE:

**WALK IN CABINET
FOUNDATION**

SHEET NUMBER:

S-1

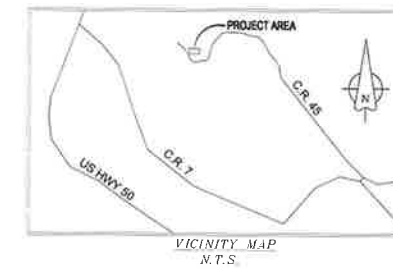


LINE TABLE		
LINE	LENGTH	BEARING
L1	35.00	S61° 53' 11"W
L2	35.00	N28° 06' 49"W
L3	35.00	N61° 53' 11"E
L4	35.00	S28° 06' 49"E
L5	12.50	N28° 06' 49"W
L6	44.27	S63° 42' 02"W
L7	48.37	S27° 13' 08"E
L8	24.28	S21° 28' 55"E
L9	64.45	S32° 20' 39"E
L10	17.83	N68° 43' 28"E

LINE TABLE		
LINE	LENGTH	BEARING
L11	27.69	N64° 21' 51"E
L12	34.33	N76° 47' 33"E
L13	38.87	N85° 06' 32"E
L14	33.38	N22° 07' 32"E
L15	114.31	N11° 50' 08"E
L16	63.69	N29° 38' 40"E
L17	17.04	N36° 05' 51"E
L18	110.67	N43° 28' 58"E
L19	30.84	N63° 47' 54"E
L20	23.46	N79° 49' 58"E

LINE TABLE		
LINE	LENGTH	BEARING
L21	196.71	S85° 49' 14"E
L22	36.45	S67° 12' 47"E
L23	21.60	S74° 33' 02"E
L24	44.44	S79° 02' 56"E
L25	155.60	S28° 25' 37"E
L26	106.62	S42° 36' 16"E
L27	47.12	S1° 52' 44"E
L28	133.59	S35° 46' 35"E
L29	303.04	S39° 48' 37"E
L30	332.64	S38° 28' 51"E

LINE TABLE		
LINE	LENGTH	BEARING
L31	463.54	S39° 10' 37"E
L32	280.16	S45° 12' 07"E
L33	17.78	S18° 28' 02"W
L34	5.48	S28° 06' 49"E
L35	75.09	N54° 28' 20"E
L36	434.55	N69° 24' 58"E
L37	240.48	S83° 16' 41"E
L38	79.89	S1° 06' 09"W



CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BRG.	CHORD LENGTH
C1	68.44	60.72	64°34'47"	S66° 48' 18"E	64.88
C2	48.25	49.50	55°51'31"	N51° 52' 46"E	46.37
C3	44.77	212.23	12°05'16"	S75° 52' 34"E	44.69
C4	146.27	177.48	47°13'17"	S58° 44' 28"E	142.17
C5	113.03	162.42	39°52'23"	S21° 34' 43"E	110.76
C6	61.27	150.36	23°20'58"	S18° 55' 11"E	60.85

LEGEND

- ⊙ ALUMINUM CAP FLUSH
- POWER POLE
- MICROWAVE
- ANTENNA
- DOWN GUY
- ⊙ DECIDUOUS TREE
- ⊙ POSITION OF GEODETIC COORDINATE
- SPOT ELEVATION
- PROPERTY LINE
- WIRE OR BARBED WIRE FENCE
- OVERHEAD ELECTRIC LINE

FLOOD ZONE DESIGNATION
 THE PROPOSED LEASE PREMISES SHOWN HEREON APPEAR TO BE WITHIN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NO. 08043C0500E DATED 09/19/07.

FLOOD ZONE "X" IS DEFINED AS: AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN; DETERMINED TO BE OUTSIDE THE 1% AND 0.2% ANNUAL CHANCE FLOODPLAINS.

- PROJECT META DATA**
- ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 18B SEPARATIONS CONSTRAINING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE.
 - BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM COLORADO STATE PLANE COORDINATE ZONE CENTRAL, DETERMINED BY GPS OBSERVATIONS.
 - FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 06/01/23.

- SURVEYOR NOTES**
- ALL TITLE INFORMATION IS BASED UPON A COMMITMENT FOR TITLE INSURANCE PREPARED BY U.S. TITLE SOLUTIONS, ORDER NO.: (UST74879) & (UST74880) EFFECTIVE DATE: 03/21/2023.
 - SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE.
 - THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.
 - SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

LESSOR'S LEGAL DESCRIPTION (TITLE FILE No. UST74879)
 MOUNTAIN PINK, GERTRUDE K. AND POST MASTER MINING LODES, MINING ENTRY 1256 DESIGNATED BY THE SURVEYOR GENERAL AS LOT NO. 6370, EMBRACING PORTION OF SECTIONS 13 AND 24, TOWNSHIP 49 NORTH, RANGE 9 EAST AND OF SECTIONS 18 AND 19, TOWNSHIP 49 NORTH, RANGE 10 EAST, N.M.P.M. IN THE CLEORA MINING DISTRICT
 COUNTY OF FREMONT, STATE OF COLORADO.

SCHEDULE B EXCEPTIONS (TITLE FILE No. UST74879)
 ITEMS OF THE CLIENT PROVIDED TITLE REPORT DO NOT CONTAIN GRAPHICALLY PLOTTABLE EASEMENTS, SETBACKS, RESTRICTIONS OR OTHER ENCUMBRANCES. THE SURVEYOR CANNOT GUARANTEE THAT NON-PLOTTABLE ENCUMBRANCES DO NOT EXIST THAT MAY AFFECT THE SUBJECT LEASED PREMISES.



FIELD BY:	JWS
DRAWN BY:	JMM
CHECKED BY:	RLF

REVISIONS		
NO.	DATE	DESCRIPTION
3	01/20/24	REVISIONS
2	12/20/23	FINAL
1	08/19/23	TITLE REVIEW
0	06/06/23	PRELIMINARY



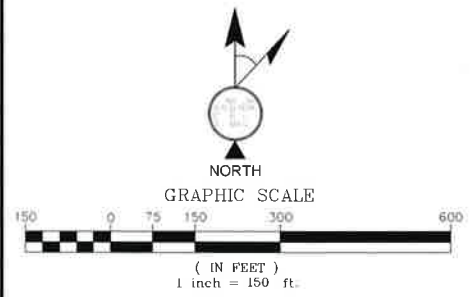
REUSE OF DOCUMENT
 THE IDEAS & DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF RLF CONSULTING, LLC & IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF RLF CONSULTING, LLC.

PROJECT No.
08002585
 SITE NAME:
 WELLSVILLE

SITE ADDRESS:
 520 COUNTRY ROAD 45
 SALIDA, CO 81201

SHEET TITLE:
SURVEY BOUNDARY

SHEET NO. LS-1	REVISION: 0
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LINE	LENGTH	BEARING
L1	35.00	S61° 53' 11"W
L2	35.00	N28° 06' 49"W
L3	35.00	N61° 53' 11"E
L4	35.00	S28° 06' 49"E
L5	12.50	N28° 06' 49"W
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L35	75.09	N54° 28' 20"E
L36	434.55	N69° 24' 58"E
L37	240.48	S83° 16' 41"E
L38	79.89	S1° 08' 09"W

LEGEND

- ALUMINUM CAP FLUSH POWER POLE
- MICROWAVE ANTENNA
- DOWN GUY
- DECIDUOUS TREE
- POSITION OF GEODETIC COORDINATES
- SPOT ELEVATION
- PROPERTY LINE
- WIRE OR BARBED WIRE FENCE
- OVERHEAD ELECTRIC LINE

LESSEE'S 35' x 35' LEASE AREA DESCRIPTION
 A TRACT OF LAND BEING A PORTION OF THE MOUNTAIN PINK, GERTRUDE K. AND POSTMASTER MINING LODES, MINING ENTRY 1256, DESIGNATED BY THE SURVEYOR GENERAL AS LOT NO. 6370, EMBRACING PORTION OF SECTIONS 13 AND 24, TOWNSHIP 49 NORTH, RANGE 10 EAST AND SECTIONS 18 AND 19, TOWNSHIP 49 NORTH, RANGE 10 EAST, N.M.P.M. IN THE CLEORA MINING DISTRICT FREMONT COUNTY, COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT THE SOUTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM WHICH THE NORTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM BEARS NORTH 23°35'06" WEST, A DISTANCE OF 1500.00 FEET, THENCE DEPARTING SAID SOUTHEAST CORNER NORTH 66°18'56" WEST, A DISTANCE OF 289.26 FEET TO THE POINT OF BEGINNING;
 THENCE SOUTH 61°53'11" WEST, A DISTANCE OF 35.00 FEET,
 THENCE NORTH 28°06'49" WEST, A DISTANCE OF 35.00 FEET,
 THENCE NORTH 61°53'11" EAST, A DISTANCE OF 35.00 FEET,
 THENCE SOUTH 28°06'49" EAST, A DISTANCE OF 35.00 FEET TO THE POINT OF BEGINNING.
 CONTAINING 1225 SQUARE FEET OR 0.028 ACRES, MORE OR LESS.

LESSEE'S 5' UTILITY EASEMENT DESCRIPTION
 A TRACT OF LAND BEING A PORTION OF THE SOUTHWEST 1/4 OF SECTION 18, TOWNSHIP 49 NORTH, RANGE 10 EAST, N.M.P.M. IN THE CLEORA MINING DISTRICT FREMONT COUNTY, COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 A 5.00 FOOT STRIP OF LAND LYING 2.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:
 COMMENCING AT THE SOUTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM WHICH THE NORTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM BEARS NORTH 23°35'06" WEST, A DISTANCE OF 1500.00 FEET, THENCE DEPARTING SAID SOUTHEAST CORNER NORTH 66°18'56" WEST, A DISTANCE OF 289.26 FEET, THENCE SOUTH 61°53'11" WEST, A DISTANCE OF 35.00 FEET, THENCE NORTH 28°06'49" WEST, A DISTANCE OF 35.00 FEET, THENCE NORTH 61°53'11" EAST, A DISTANCE OF 35.00 FEET, THENCE SOUTH 28°06'49" EAST, A DISTANCE OF 5.48 FEET TO THE POINT OF BEGINNING;
 THENCE NORTH 54°28'20" EAST, A DISTANCE OF 75.09 FEET,
 THENCE NORTH 69°24'58" EAST, A DISTANCE OF 434.55 FEET,
 THENCE SOUTH 83°16'41" EAST, A DISTANCE OF 240.48 FEET,
 THENCE SOUTH 01°08'09" WEST, A DISTANCE OF 79.89 FEET TO THE POINT OF TERMINUS.

ALL SIDELINES OF DESCRIBED EASEMENT ARE TO BE SHORTENED OR LENGTHENED TO FORM ONE CONTIGUOUS PARCEL.

LESSEE'S ACCESS EASEMENT DESCRIPTION
 A TRACT OF LAND BEING A PORTION OF THE SOUTHWEST 1/4 OF SECTION 18, TOWNSHIP 49 NORTH, RANGE 10 EAST, N.M.P.M. IN THE CLEORA MINING DISTRICT FREMONT COUNTY, COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 A 25.00 FOOT STRIP OF LAND LYING 12.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:
 COMMENCING AT THE SOUTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM WHICH THE NORTHEAST CORNER OF SAID MOUNTAIN PINK MINING CLAIM BEARS NORTH 23°35'06" WEST, A DISTANCE OF 1500.00 FEET, THENCE DEPARTING SAID SOUTHEAST CORNER NORTH 66°18'56" WEST, A DISTANCE OF 289.26 FEET, THENCE SOUTH 61°53'11" WEST, A DISTANCE OF 35.00 FEET, THENCE NORTH 28°06'49" WEST, A DISTANCE OF 35.00 FEET, THENCE NORTH 61°53'11" EAST, A DISTANCE OF 35.00 FEET, THENCE SOUTH 28°06'49" WEST, A DISTANCE OF 12.50 FEET TO THE POINT OF BEGINNING;
 THENCE SOUTH 63°42'02" WEST, A DISTANCE OF 44.27 FEET TO A POINT HERINAFTER REFERRED TO AS POINT "A", ALSO BEING THE POINT OF TERMINUS.

TOGETHER WITH, A TRACT OF LAND BEING A PORTION OF THE SOUTHWEST 1/4 OF SECTION 18, AND NORTHWEST 1/4 SECTION 19 TOWNSHIP 49 NORTH, RANGE 10 EAST, N.M.P.M. IN THE CLEORA MINING DISTRICT FREMONT COUNTY, COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 A 20.00 FOOT STRIP OF LAND LYING 10.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:
 COMMENCING AT FOREMENTIONED POINT "A", THENCE SOUTH 27°13'08" EAST, A DISTANCE OF 48.37 FEET;
 THENCE SOUTH 21°28'55" EAST, A DISTANCE OF 24.28 FEET;
 THENCE SOUTH 32°20'39" EAST, A DISTANCE OF 64.45 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 60.72 FEET, (CHORD BEARING SOUTH 66°48'18" EAST, DISTANCE 64.88 FEET) FROM WHICH THE CENTER BEARS NORTH 55°29'00" EAST;
 THENCE EAST, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 64°34'47", AN ARC LENGTH OF 68.44 FEET;
 THENCE NORTH 68°43'28" EAST, A DISTANCE OF 17.83 FEET;
 THENCE NORTH 64°21'51" EAST, A DISTANCE OF 27.69 FEET;
 THENCE NORTH 78°47'33" EAST, A DISTANCE OF 34.33 FEET;
 THENCE NORTH 85°06'32" EAST, A DISTANCE OF 38.87 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 49.50 FEET, (CHORD BEARING NORTH 51°42'48" EAST, DISTANCE 46.37 FEET) FROM WHICH THE CENTER BEARS NORTH 10°11'29" WEST;

THENCE NORTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 55°51'31", AN ARC LENGTH OF 48.25 FEET;
 THENCE NORTH 22°07'32" EAST, A DISTANCE OF 33.38 FEET;
 THENCE NORTH 11°50'08" EAST, A DISTANCE OF 114.31 FEET;
 THENCE NORTH 29°38'40" EAST, A DISTANCE OF 63.69 FEET;
 THENCE NORTH 36°05'51" EAST, A DISTANCE OF 17.04 FEET;
 THENCE NORTH 43°28'58" EAST, A DISTANCE OF 110.67 FEET;
 THENCE NORTH 63°47'54" EAST, A DISTANCE OF 30.64 FEET;
 THENCE NORTH 79°49'58" EAST, A DISTANCE OF 23.48 FEET;
 THENCE SOUTH 85°48'14" EAST, A DISTANCE OF 196.71 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 212.23 FEET, (CHORD BEARING SOUTH 75°52'34" EAST, DISTANCE 44.69 FEET) FROM WHICH THE CENTER BEARS SOUTH 08°04'48" WEST.

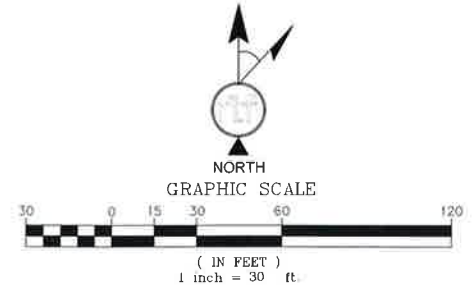
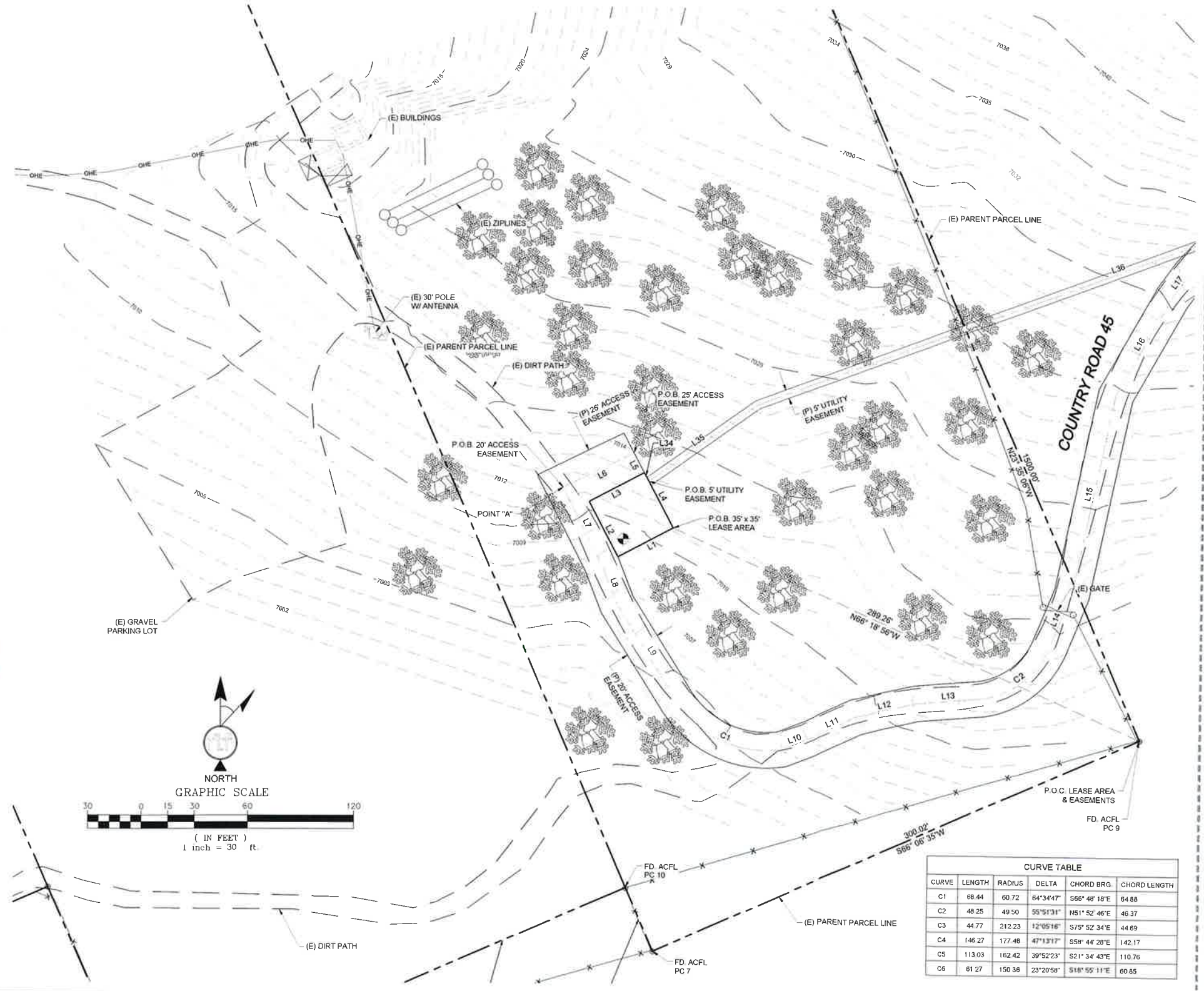
THENCE EAST, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 12°05'16", AN ARC LENGTH OF 44.77 FEET;
 THENCE SOUTH 67°12'47" EAST, A DISTANCE OF 36.45 FEET;
 THENCE SOUTH 74°33'02" EAST, A DISTANCE OF 21.60 FEET;
 THENCE SOUTH 79°02'56" EAST, A DISTANCE OF 44.44 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 177.48 FEET, (CHORD BEARING SOUTH 58°44'28" EAST, DISTANCE 142.17 FEET) FROM WHICH THE CENTER BEARS SOUTH 07°38'53" WEST.

THENCE SOUTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 47°13'17", AN ARC LENGTH OF 146.27 FEET;
 THENCE SOUTH 28°25'37" EAST, A DISTANCE OF 155.60 FEET;
 THENCE SOUTH 42°36'16" EAST, A DISTANCE OF 106.62 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 162.42 FEET, (CHORD BEARING SOUTH 21°34'43" EAST, DISTANCE 110.76 FEET) FROM WHICH THE CENTER BEARS SOUTH 48°29'06" WEST.

THENCE SOUTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 39°52'23", AN ARC LENGTH OF 113.03 FEET;
 THENCE SOUTH 01°52'44" EAST, A DISTANCE OF 47.12 FEET;
 TO THE BEGINNING OF A NON-TANGENT CURVE HAVING A RADIUS OF 150.36 FEET, (CHORD BEARING SOUTH 18°55'11" EAST, DISTANCE 60.85 FEET) FROM WHICH THE CENTER BEARS NORTH 82°45'17" EAST.

THENCE SOUTH, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 23°20'58", AN ARC LENGTH OF 61.27 FEET;
 THENCE SOUTH 35°46'35" EAST, A DISTANCE OF 133.59 FEET;
 THENCE SOUTH 39°48'37" EAST, A DISTANCE OF 303.04 FEET;
 THENCE SOUTH 38°28'51" EAST, A DISTANCE OF 332.64 FEET;
 THENCE SOUTH 39°10'37" EAST, A DISTANCE OF 463.54 FEET;
 THENCE SOUTH 45°12'07" EAST, A DISTANCE OF 280.16 FEET;
 THENCE SOUTH 18°28'02" WEST, A DISTANCE OF 17.78 FEET TO THE POINT OF BEGINNING.

ALL SIDELINES OF DESCRIBED EASEMENT ARE TO BE SHORTENED OR LENGTHENED TO FORM ONE CONTIGUOUS PARCEL.



CURVE	LENGTH	RADIUS	DELTA	CHORD BRG.	CHORD LENGTH
C1	88.44	60.72	64°34'47"	S66° 48' 18"E	64.88
C2	48.25	49.50	55°51'31"	N51° 52' 46"E	46.37
C3	44.77	212.23	12°05'16"	S75° 52' 34"E	44.69
C4	146.27	177.48	47°13'17"	S58° 44' 28"E	142.17
C5	113.03	162.42	39°52'23"	S21° 34' 43"E	110.76
C6	61.27	150.36	23°20'58"	S18° 55' 11"E	60.85

8350 EAST CRECENT PARKWAY ST. 200
GREENWOOD VILLAGE, CO 80111

655 NORTH FRANKLIN STREET
SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
WWW.KIMLEY-HORN.COM

FIELD BY:	JWS
DRAWN BY:	JMM
CHECKED BY:	RLF

REVISIONS		
NO.	DATE	DESCRIPTION
3	01/20/24	REVISIONS
2	12/20/23	FINAL
1	08/19/23	TITLE REVIEW
0	06/06/23	PRELIMINARY

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PROJECT No:
08002585
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 WELLSVILLE

SITE ADDRESS:
 520 COUNTRY ROAD 45
 SALIDA, CO 81201

SHEET TITLE:
SURVEY DETAIL

SHEET NO.
LS-2
 REVISION:
0

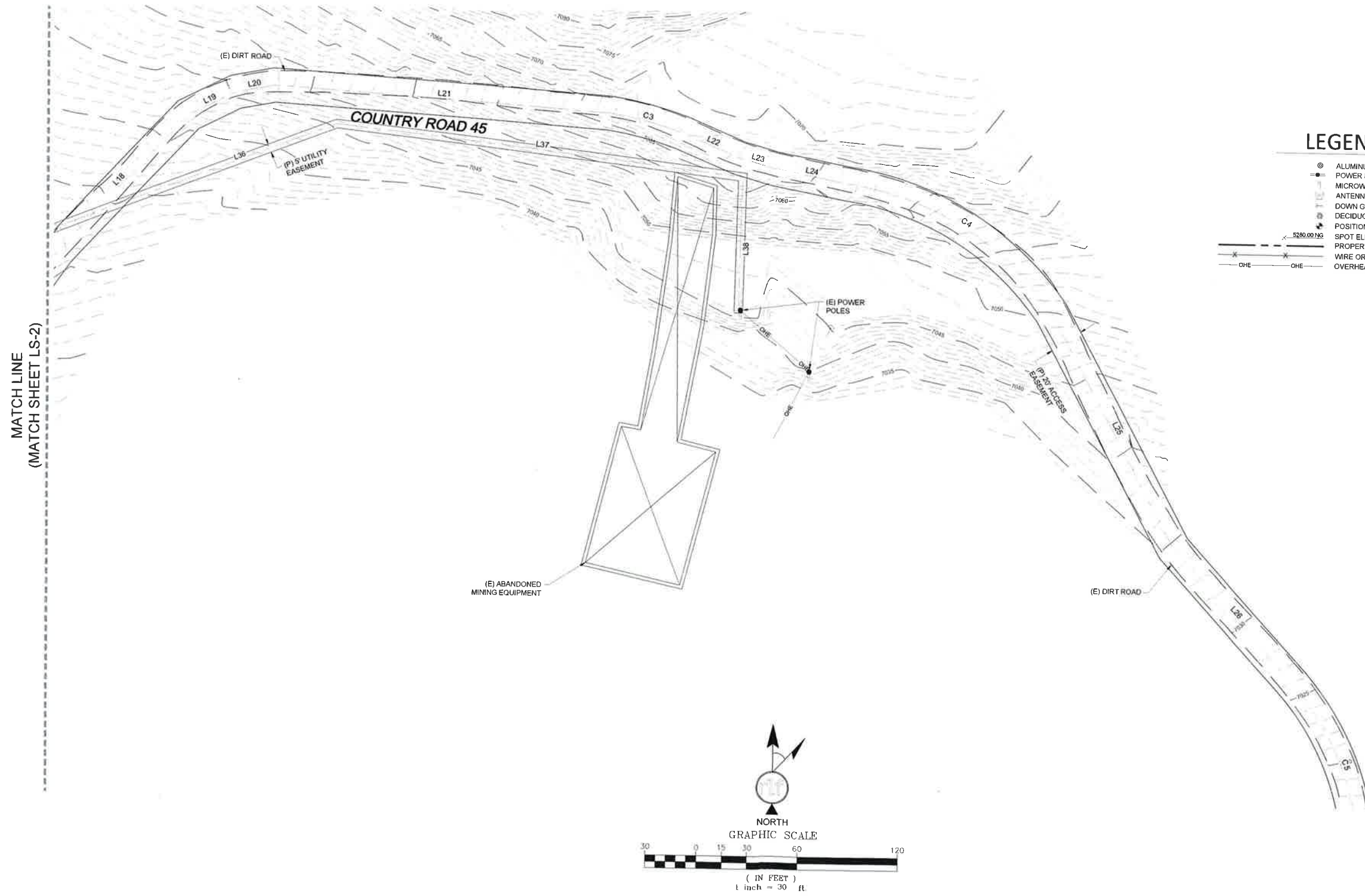
LINE TABLE		
LINE	LENGTH	BEARING
L1	35.00	S61° 53' 11"W
L2	35.00	N28° 06' 49"W
L3	35.00	N61° 53' 11"E
L4	35.00	S28° 06' 49"E
L5	12.50	N28° 06' 49"W
L6	44.27	S63° 42' 02"W
L7	48.37	S27° 13' 08"E
L8	24.28	S21° 28' 55"E
L9	64.45	S32° 20' 39"E
L10	17.83	N68° 43' 28"E

LINE TABLE		
LINE	LENGTH	BEARING
L11	27.69	N64° 21' 51"E
L12	34.33	N76° 47' 33"E
L13	38.87	N85° 06' 32"E
L14	33.38	N22° 07' 32"E
L15	114.31	N11° 50' 08"E
L16	63.69	N29° 38' 40"E
L17	17.04	N36° 05' 51"E
L18	110.67	N43° 28' 58"E
L19	30.84	N63° 47' 54"E
L20	23.46	N79° 49' 58"E

LINE TABLE		
LINE	LENGTH	BEARING
L21	196.71	S85° 49' 14"E
L22	36.45	S67° 12' 47"E
L23	21.60	S74° 33' 02"E
L24	44.44	S78° 02' 58"E
L25	155.60	S28° 25' 37"E
L26	106.62	S42° 36' 16"E
L27	47.12	S1° 52' 44"E
L28	133.59	S35° 46' 35"E
L29	303.04	S39° 48' 37"E
L30	332.64	S38° 28' 51"E

LINE TABLE		
LINE	LENGTH	BEARING
L31	463.54	S39° 10' 37"E
L32	280.16	S45° 12' 07"E
L33	17.76	S18° 28' 02"W
L34	5.48	S28° 06' 49"E
L35	75.09	N54° 28' 20"E
L36	434.55	N69° 24' 58"E
L37	240.48	S83° 16' 41"E
L38	79.89	S1° 05' 09"W

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BRG.	CHORD LENGTH
C1	68.44	60.72	64°34'47"	S66° 48' 18"E	64.88
C2	48.25	49.50	55°51'31"	N51° 52' 46"E	46.37
C3	44.77	212.23	12°05'16"	S75° 52' 34"E	44.69
C4	146.27	177.48	47°13'17"	S58° 44' 28"E	142.17
C5	113.03	162.42	39°52'23"	S21° 34' 43"E	110.76
C6	61.27	150.36	23°20'58"	S18° 55' 11"E	60.85



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 520 COUNTRY ROAD 45
 SALIDA, CO 81201

SHEET TITLE:
SURVEY DETAIL

SHEET NO. **LS-3** REVISION: **0**