



**NEW SITE
BUILD**

T-MOBILE SITE NAME: WOODMEN ELEMENTARY
 VERTICAL BRIDGE SITE NAME: WOODMEN HILLS ELEMENTARY
 T-MOBILE SITE NUMBER: DN04333A
 VERTICAL BRIDGE SITE NUMBER: US-CO-5052
 SITE ADDRESS: 12119 McCLURE ROAD
 FALCON, CO 80831
 SITE TYPE: MONOPOLE

PLANS PREPARED FOR:

 2323 Delegany Street
 Denver, CO 80216

PLANS PREPARED BY:

 FROM ZERO TO INFINIGY
 the solutions are endless
 7301 Federal Blvd, Suite 301
 Westminster, CO 80030
 Office # (303) 219-1178
 Fax # (303) 242-8636
 JOB NUMBER 404-052

MLA PARTNER:

 750 Park of Commerce Drive
 Suite 200
 Boca Raton, FL 33487
 Office # (561) 948-6367



DRAWING NOTICE:
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REVISIONS:	DESCRIPTION	DATE	BY	REV
	REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
	REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
	REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
	ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
**12119 McCLURE ROAD
 FALCON, CO 80831**

SHEET DESCRIPTION:
**TITLE SHEET &
 PROJECT DATA**

SHEET NUMBER:
T-1

SITE INFORMATION

APPLICANT:
 T-MOBILE
 2323 DELGANY STREET
 DENVER, CO 80216

CONTACT:
 JOHN WABISZCZEWICZ
 (303) 313-6930

TOWER OWNER:
 VERTICAL BRIDGE
 750 PARK OF COMMERCE DRIVE, STE 200
 BOCA RATON, FL 33478

VERTICAL BRIDGE PM:
 MATT GRUGAN
 (678) 488-1866

LATITUDE (NAD83):
 38° 57' 04.91" N
 38.951364°

LONGITUDE (NAD83):
 104° 35' 57.47" W
 -104.599297°

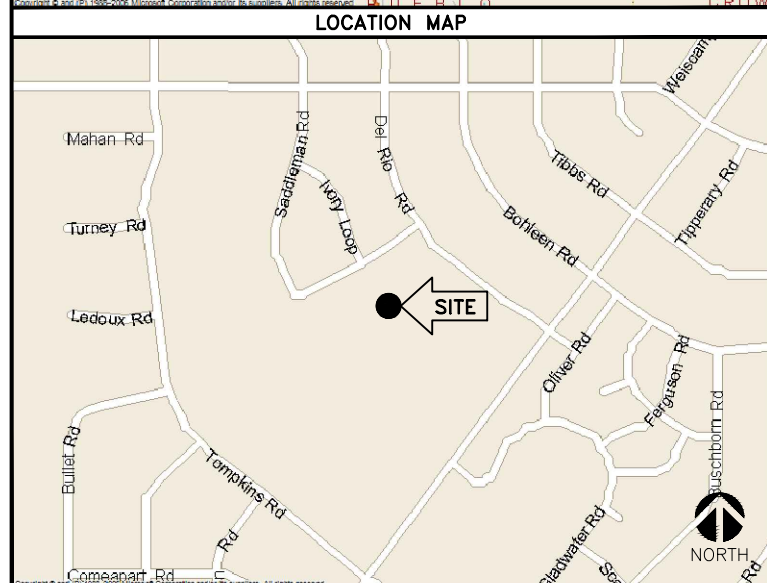
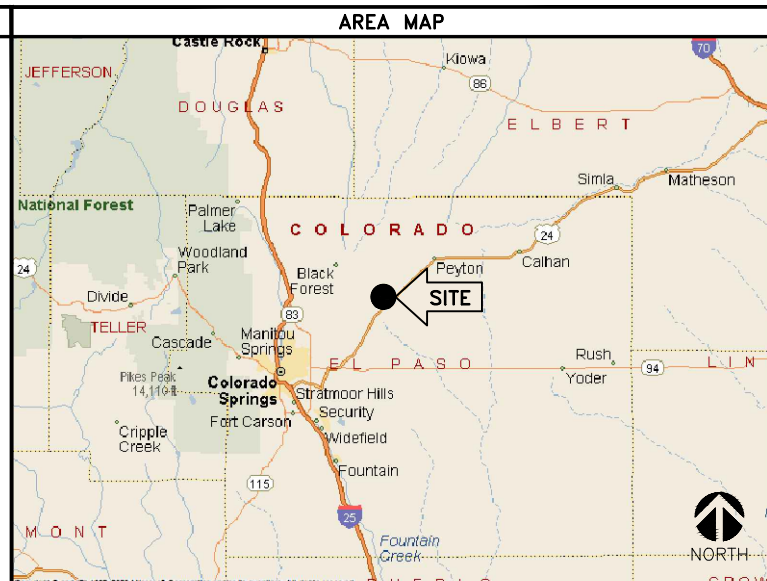
COUNTY:
 EL PASO

ZONING JURISDICTION:
 EL PASO COUNTY

POWER COMPANY:
 MOUNTAIN VIEW ELECTRIC
 (719) 775-2861

TELCO PROVIDER:
 CENTURYLINK
 (303) 343-0861

T-MOBILE CM:
 TBD



PROJECT DESCRIPTION

THESE PLANS HAVE BEEN DEVELOPED FOR THE INSTALLATION OF AN UNMANNED TELECOMMUNICATION & PUBLIC UTILITY FACILITY, CONSISTING OF THE PLACEMENT OF A 90' MONOPOLE TOWER, SPACE FOR CARRIER EQUIPMENT & A UTILITY RACK WITHIN A FENCED COMPOUND (NO WATER OR SEWER IS REQUIRED), IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY VERTICAL BRIDGE & T-MOBILE. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

T-MOBILE PROPOSES TO INSTALL THE FOLLOWING:

- INSTALL (1) NEW ANTENNA MOUNT, (2) NEW COVPS, (3) NEW FRBG'S & (3) NEW T-MOBILE PANEL ANTENNAS AT ANTENNA MOUNT LEVEL
- INSTALL (2) NEW HI-CAP HYBRID CABLES
- INSTALL (1) NEW DELTA SITE SUPPORT CABINET, (1) NEW STACKED SLEEVE & (2) NEW COVPS ON NEW 10'x12' STEEL EQUIPMENT PLATFORM WITHIN 10'x20' LEASE AREA
- INSTALL (1) NEW GPS UNIT WITH (1) NEW 1/2" COAX CABLE
- INSTALL NEW ICE BRIDGE

APPLICABLE CODES

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

1. INTERNATIONAL BUILDING CODE (2009 IBC)
2. TIA-EIA-222-G OR LATEST EDITION
3. NFPA 780 - LIGHTNING PROTECTION CODE
4. 2014 NATIONAL ELECTRIC CODE OR LATEST EDITION
5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
6. CO BUILDING CODE
7. LOCAL BUILDING CODE
8. CITY/COUNTY ORDINANCES

DRAWING INDEX

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SURVEYOR'S CERTIFICATE

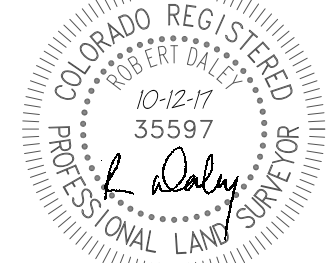
I, Robert Daley, do hereby certify, that on August 2, 2016, a topographic survey was conducted under my supervision using the normal standard of care of Professional Land Surveyors and the map hereon accurately represents said survey, to the best of my knowledge.

This drawing does not represent a Land Survey, Land Survey Plat, Improvement Land Survey Plat or Improvement Location Certificate and any monuments or boundary lines shown are for information only and are not to be relied on.

This survey relied upon Fidelity National Title Insurance Company Commitment No.: 23253661 for legal descriptions and easements.

This survey does not constitute a title search by this surveyor or Daley Land Surveying, Inc. of the property shown and described hereon to determine:

1. Ownership of this tract of land.
2. Rights-of-way, easements and encumbrances recorded or unrecorded affecting this tract of land.
3. Compatibility of this description with those of adjacent tracts of land.



Job No. 1606-003
For and on behalf of
Daley Land Surveying, Inc.
17011 Lincoln Ave., #361
Parker CO, 80134
303 953 9841
Robert Daley, PLS 35597

BASIS OF BEARINGS:

The bearings shown on this survey are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

COORDINATE SYSTEM AND DATUM:

Horizontal coordinates are referenced to NAD83, Vertical datum is NAVD88 and originates from the local C.O.R.S. network, utilizing the Geoid12A model.

UTILITIES:

The utilities which are readily visible upon the ground, such as manholes, power and light poles, inlets, etc. were located by field surveys and shown hereon. Sub-surface utilities, if shown, are the result of field surveys of utility location marks provided by others.

LEGAL DESCRIPTION PARENT TRACT:

Per Commitment No. 23253661 Effective Date: June 30, 2016 at 8:00 am, Fidelity National Title Insurance Company.

The land referred to in Schedule A is situated in the County of El Paso, State of Colorado and is described as follows:

An interest in land, said interest being over a portion of the following described parent parcel:

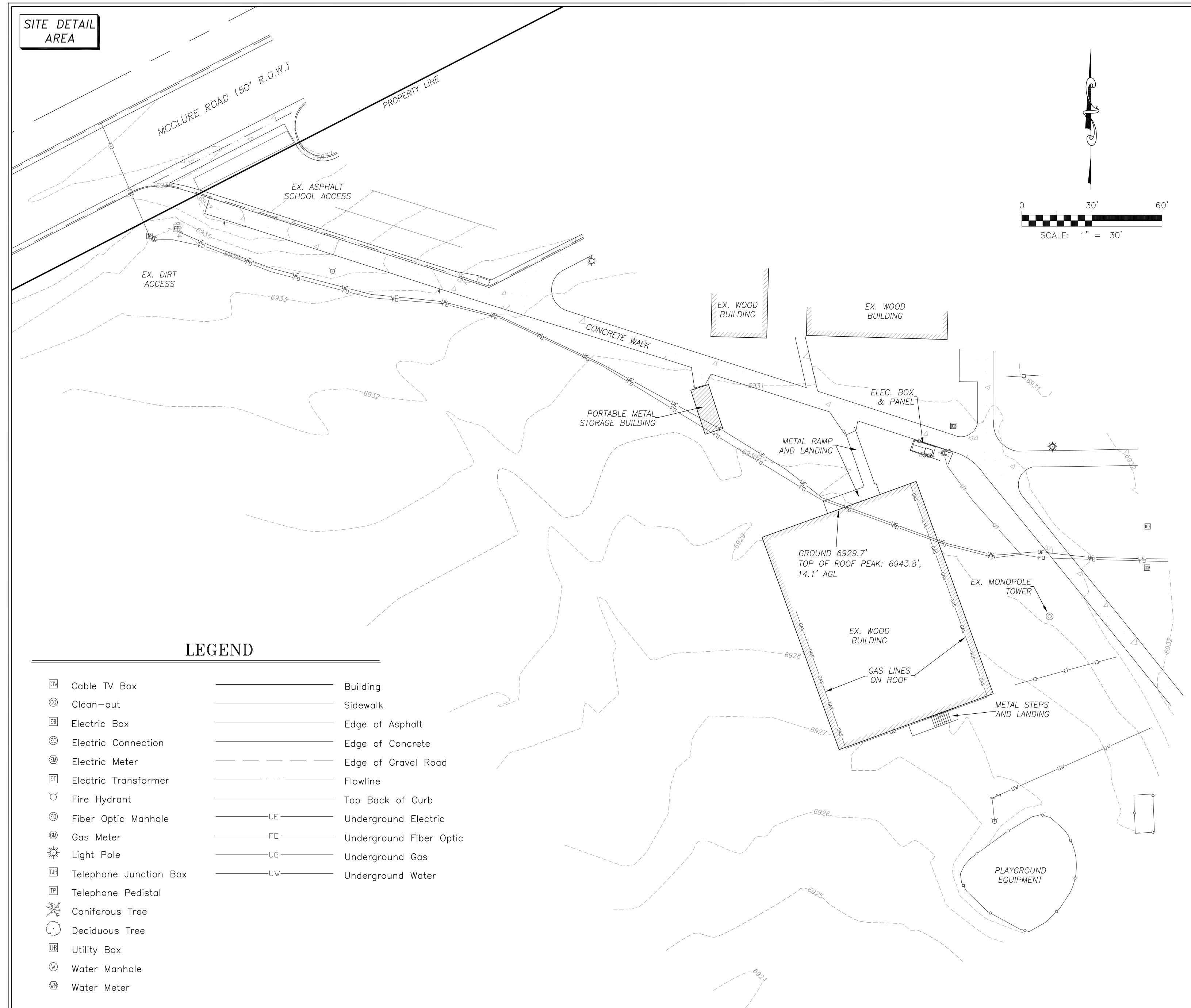
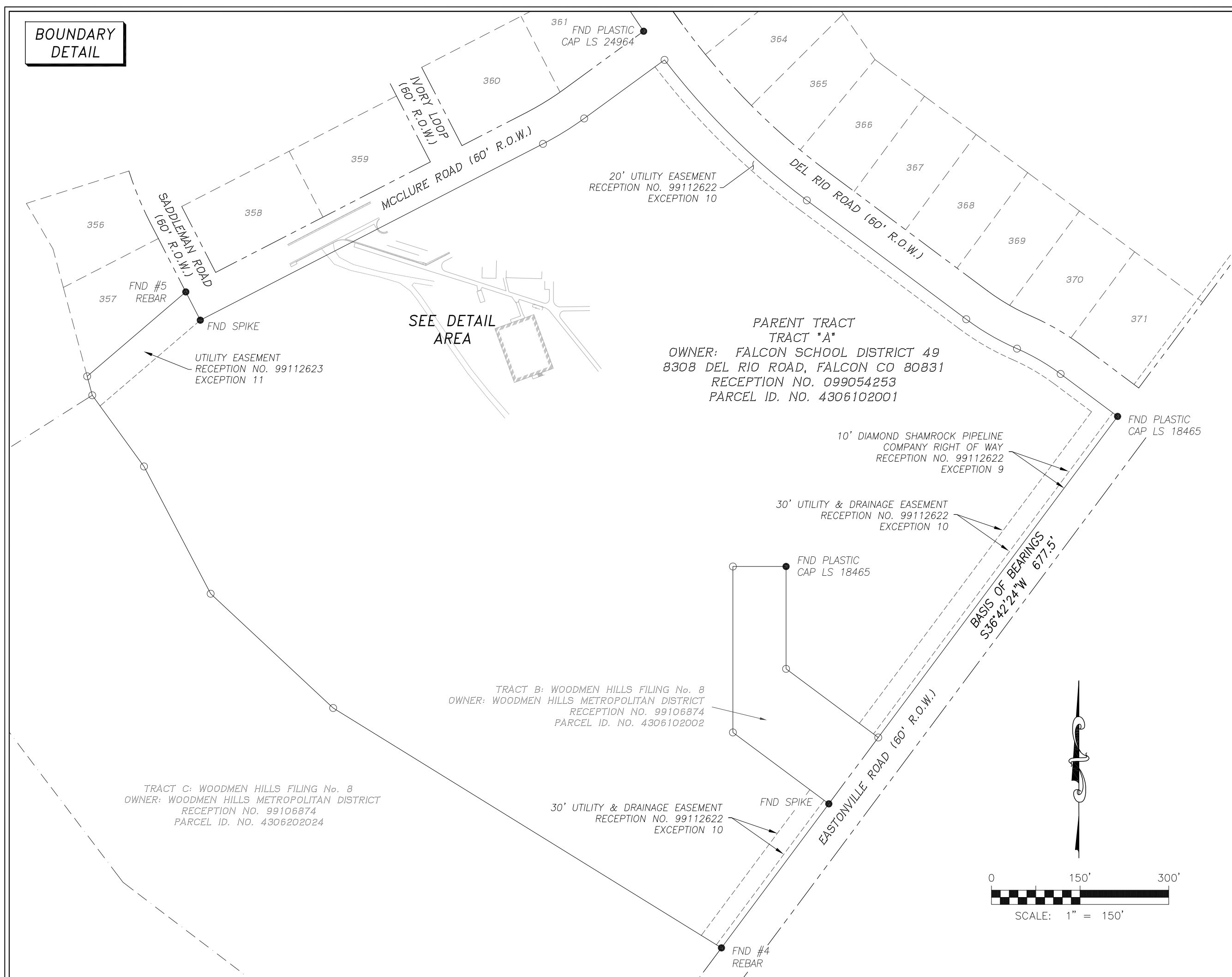
Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado.

AND BEING a portion of the same property conveyed to Falcon School District 49, of the County of El Paso and State of Colorado from Falcon Properties and Investments, LLP by Special Warranty Deed dated April 06, 1999 and recorded April 08, 1999 in Instrument No. 099054253.

EXCEPTIONS LISTED IN TITLE COMMITMENT:

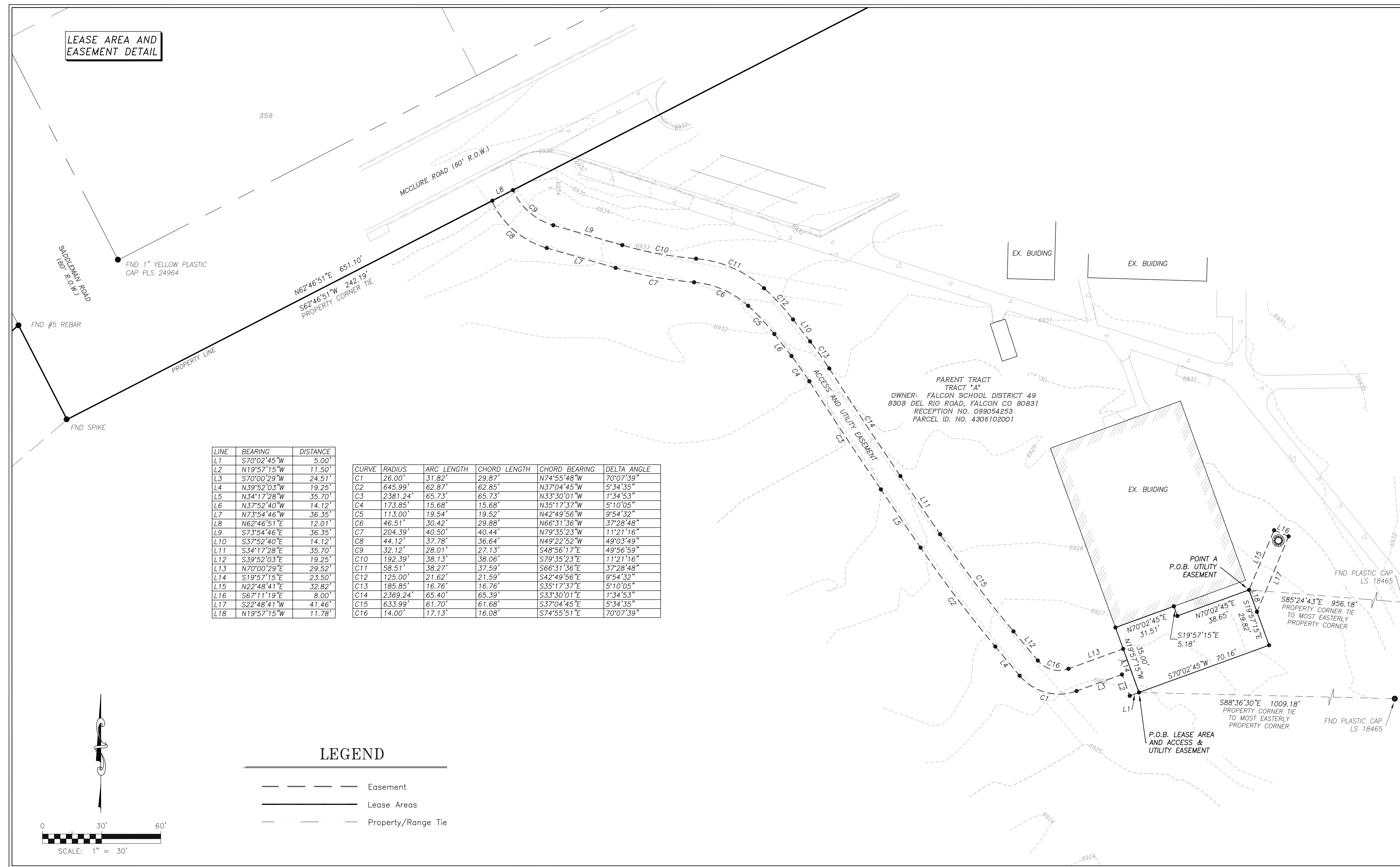
- Item 1. Not survey related
- Item 2. Not survey related
- Item 3. Not survey related
- Item 4. Not survey related
- Item 5. Shown hereon, if any
- Item 6. Not survey related
- Item 7. Not survey related
- Item 8. Not survey related
- Item 9. Shown hereon
- Item 10. Shown hereon
- Item 11. Shown hereon
- Item 12. Shown hereon
- Item 13. Not survey related
- Item 14. Not survey related

TOPOGRAPHIC SURVEY
VERTICAL BRIDGE SITE No. US-CO-5052
SITUATED IN THE NORTH HALF OF SECTION 6,
TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M.
COUNTY OF EL PASO, STATE OF COLORADO



	INFINIGY THE SOLUTIONS ARE ENDLESS 7301 FEDERAL BOULEVARD STE. 300 WESTMINSTER, CO 80030 (303) 219-1178 WWW.INFINIGY.COM	DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134	Rev:	Date:	Description:	By:	PROJECT INFORMATION:		
			1	8/5/16	Survey	RD	SITE NAME:	WOODMEN HILLS ELEMENTARY	
2	8/15/16	Easement/Lease	AV	SITE ADDRESS:	12119 McCLURE ROAD FALCON, COLORADO 80831				
3	10/12/17	Address change	RD	VERTICAL BRIDGE SITE NUMBER:	US-CO-5052				
							DRAWN BY:	CHK BY:	APV BY:
							AV	RD	RD

TOPOGRAPHIC SURVEY
VERTICAL BRIDGE SITE No. US-CO-5052
SITUATED IN THE NORTH HALF OF SECTION 6,
TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M.
COUNTY OF EL PASO, STATE OF COLORADO



ACCESS AND UTILITY EASEMENT — PROPOSED:
A strip of land over and across that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

Beginning at a point, also being the Point of Beginning of the hereinafter described Lease Area, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears South 88°36'30" East, a distance of 1009.18 feet;
THENCE North 70°02'45" West, a distance of 11.50 feet;
THENCE South 19°57'15" West, a distance of 5.00 feet;
THENCE South 70°00'29" West, a distance of 24.51 feet;
THENCE along a curve to the right, an arc length of 31.82 feet, said curve having a radius of 26.00 feet, a delta angle of 70°07'39", a chord bearing of North 74°55'48" West, and a chord length of 29.87 feet;
THENCE North 39°52'03" West, a distance of 19.25 feet;
THENCE along a curve to the right, an arc length of 62.87 feet, said curve having a radius of 645.99 feet, a delta angle of 05°34'35", a chord bearing of North 37°04'45" West, and a chord length of 62.85 feet;
THENCE North 34°17'28" West, a distance of 35.70 feet;
THENCE along a curve to the right, an arc length of 65.73 feet, said curve having a radius of 2381.24 feet, a delta angle of 01°34'53", a chord bearing of North 33°30'01" West, and a chord length of 65.73 feet;
THENCE along a reverse curve to the left, an arc length of 15.68 feet, said curve having a radius of 173.85 feet, a delta angle of 05°10'05", a chord bearing of North 35°17'37" West, and a chord length of 15.68 feet;
THENCE North 37°52'40" West, a distance of 14.12 feet;
THENCE along a curve to the left, an arc length of 19.54 feet, said curve having a radius of 113.00 feet, a delta angle of 09°54'32", a chord bearing of North 42°49'56" West, and a chord length of 19.52 feet;
THENCE along a compound curve to the left, an arc length of 30.42 feet, said curve having a radius of 46.51 feet, a delta angle of 37°28'48", a chord bearing of North 65°31'36" West, and a chord length of 29.88 feet;
THENCE along a reverse curve to the right, an arc length of 40.50 feet, said curve having a radius of 204.39 feet, a delta angle of 11°21'16", a chord bearing of North 79°35'23" West, and a chord length of 40.44 feet;
THENCE North 73°54'46" West, a distance of 12.01 feet;
THENCE along a curve to the right, an arc length of 37.78 feet, said curve having a radius of 44.12 feet, a delta angle of 49°03'49", a chord bearing of North 49°22'52" West, and a chord length of 36.64 feet to the northerly line of said Tract A, whence a northerly property corner of said Parent Tract, also being a corner of said Tract A, Woodmen Hills Filing 8, bears South 52°46'51" West, a distance of 242.19 feet;
THENCE North 62°46'51" East, a distance of 12.01 feet along said northerly line of said Tract A;
THENCE along a curve to the left, an arc length of 28.01 feet, said curve having a radius of 32.12 feet, a delta angle of 49°06'59", a chord bearing of South 48°56'17" East, and a chord length of 27.13 feet;
THENCE South 73°54'46" East, a distance of 36.35 feet;
THENCE along a curve to the left, an arc length of 38.13 feet, said curve having a radius of 192.39 feet, a delta angle of 11°21'16", a chord bearing of South 79°35'23" East, and a chord length of 38.06 feet;
THENCE along a reverse curve to the right, an arc length of 38.27 feet, said curve having a radius of 58.51 feet, a delta angle of 37°28'48", a chord bearing of South 66°31'36" East, and a chord length of 37.59 feet;
THENCE along a compound curve to the right, an arc length of 21.62 feet, said curve having a radius of 125.00 feet, a delta angle of 09°54'32", a chord bearing of South 42°49'56" East, and a chord length of 21.59 feet;
THENCE South 37°52'40" East, a distance of 14.12 feet;
THENCE along a curve to the right, an arc length of 16.76 feet, said curve having a radius of 185.85 feet, a delta angle of 05°10'05", a chord bearing of South 35°17'37" East, and a chord length of 16.76 feet;
THENCE along a reverse curve to the left, an arc length of 65.40 feet, said curve having a radius of 2369.24 feet, a delta angle of 01°34'53", a chord bearing of South 33°30'01" East, and a chord length of 65.39 feet;
THENCE South 34°17'28" East, a distance of 35.70 feet;
THENCE along a curve to the left, an arc length of 61.70 feet, said curve having a radius of 633.99 feet, a delta angle of 05°34'35", a chord bearing of South 37°04'45" East, and a chord length of 61.68 feet;
THENCE South 39°52'03" East, a distance of 19.25 feet;
THENCE along a curve to the left, an arc length of 17.13 feet, said curve having a radius of 14.00 feet, a delta angle of 70°07'39", a chord bearing of South 74°55'51" East, and a chord length of 16.08 feet;
THENCE North 70°02'45" East, a distance of 23.50 feet to the Point of Beginning.
THENCE South 19°57'15" East, a distance of 23.50 feet to the Point of Beginning.

Containing 5225 Square Feet, or 0.120 Acres, more or less.

LEASE AREA LEGAL DESCRIPTION — PROPOSED:

A parcel of land within that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

Beginning at a point, also being the Point of Beginning of the hereinafter described Access and Utility Easement, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears South 88°36'30" East a distance of 1009.18 feet;

THENCE North 19°57'15" West, a distance of 35.00 feet to a the exterior of the existing building;
THENCE North 70°02'45" East, a distance of 31.51 feet along said exterior of the existing building;
THENCE South 19°57'15" East, a distance of 5.18 feet;
THENCE North 70°02'45" East, a distance of 38.65 feet to Point A, the Point of Beginning of the hereinafter described Utility Easement, whence the most easterly corner of said Parent Tract bears South 85°24'43" East a distance of 956.18 feet;
THENCE South 19°57'15" East, a distance of 29.82 feet;
THENCE South 70°02'45" East, a distance of 70.16 feet to the Point of Beginning.

Containing 2255 Square Feet or 0.052 Acres more or less.

UTILITY EASEMENT LEGAL DESCRIPTION — PROPOSED:

A parcel of land within that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

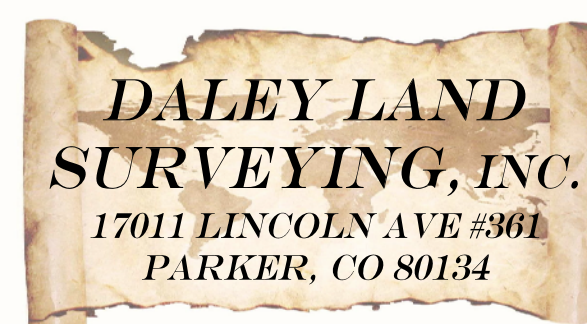
Beginning at Point A as hereinbefore described, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears South 85°24'43" East a distance of 956.18 feet;

THENCE North 22°48'41" East, a distance of 32.82 feet;
THENCE South 67°11'19" East, a distance of 8.00 feet;
THENCE North 22°48'41" West, a distance of 41.46 feet to the easterly line of the hereinafter described lease area;
THENCE North 19°57'15" West, a distance of 11.78 feet along said easterly line to the Point of Beginning;

Containing 297 Square Feet or 0.007 Acres, more or less



INFINIGY
THE SOLUTIONS ARE ENDLESS
7301 FEDERAL BOULEVARD STE. 300
WESTMINSTER, CO 80030
(303) 219-1178
WWW.INFINIGY.COM



Rev:	Date:	Description:	By:
1	8/5/16	Survey	RD
2	8/15/16	Easements/Lease	AV
3	10/12/17	Address change	RD

PROJECT INFORMATION:

SITE NAME: WOODMEN HILLS ELEMENTARY
SITE ADDRESS: 12119 McCLURE ROAD
FALCON, COLORADO 80831
VERTICAL BRIDGE SITE NUMBER: US-CO-5052

DRAWN BY:	CHK BY:	APV BY:
AV	RD	RD

LAND SURVEY
Sheet Number:

LS2

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND A DESIGN WALK BY INFINIGY, DATED 06/20/16, AND A TOPOGRAPHIC SURVEY BY DALEY LAND SURVEYING, DATED 08/15/16.

PLANS PREPARED FOR:



2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:



FROM ZERO TO INFINIGY
the solutions are endless

7301 Federal Blvd, Suite 301
Westminster, CO 80030
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER 404-052

MLA PARTNER:



750 Park of Commerce Drive
Suite 200
Boca Raton, FL 33487
Office # (561) 948-6367

ENGINEERING LICENSE:



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REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
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VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

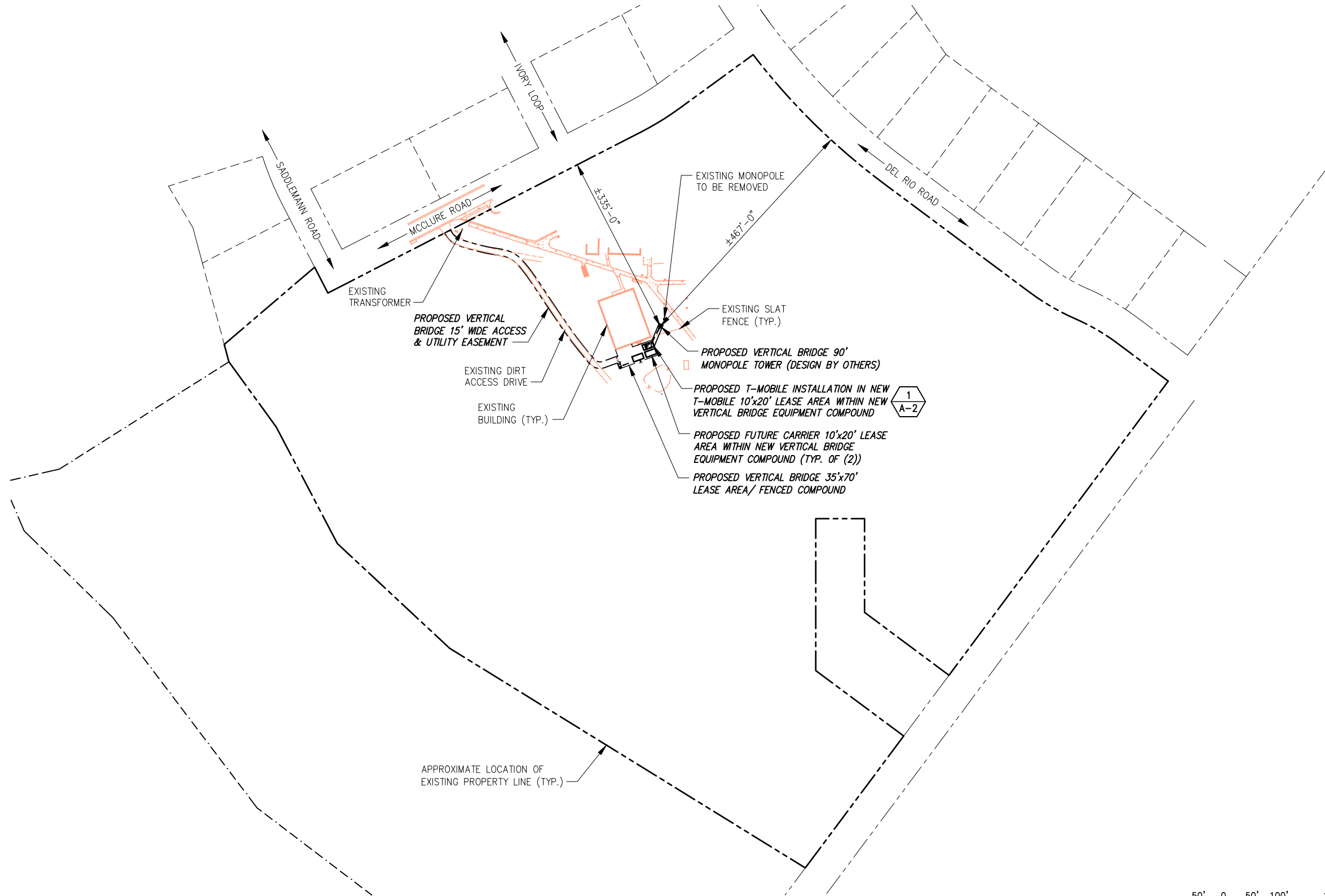
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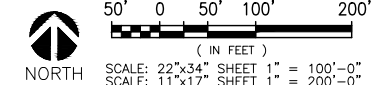
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SHEET DESCRIPTION:
OVERALL SITE PLAN

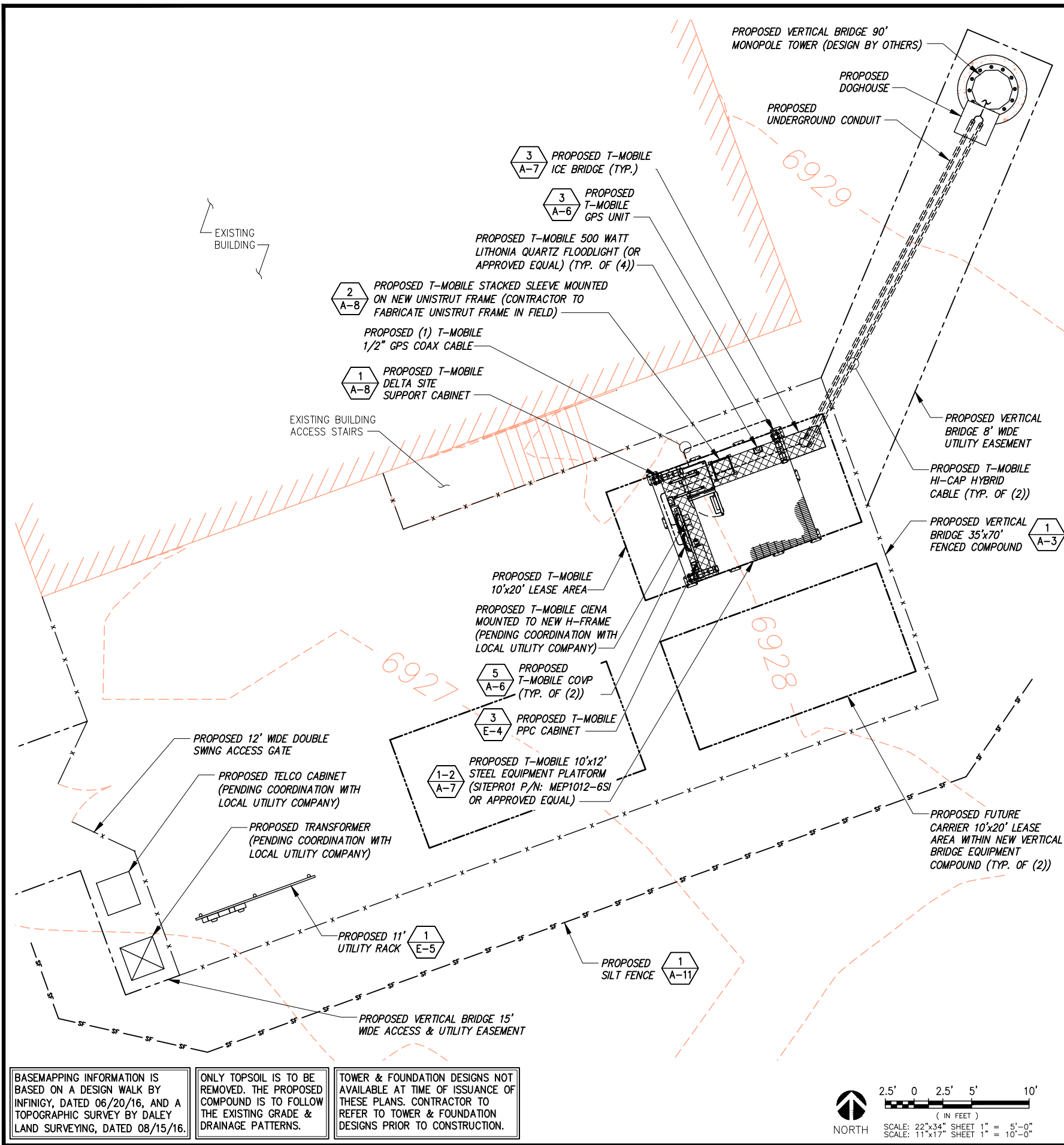
SHEET NUMBER:
A-1



OVERALL SITE PLAN



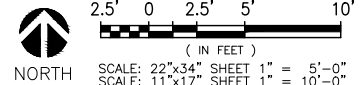
SCALE: AS NOTED 1



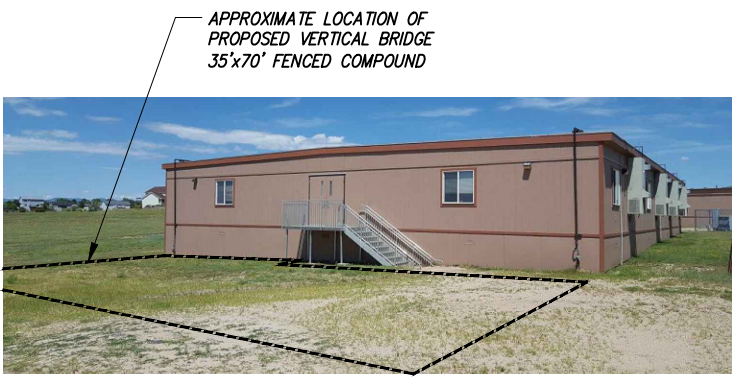
BASEMAPPING INFORMATION IS BASED ON A DESIGN WALK BY INFINIGY, DATED 06/20/16, AND A TOPOGRAPHIC SURVEY BY DALEY LAND SURVEYING, DATED 08/15/16.

ONLY TOPSOIL IS TO BE REMOVED. THE PROPOSED COMPOUND IS TO FOLLOW THE EXISTING GRADE & DRAINAGE PATTERNS.

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.



SITE PLAN



PROPOSED COMPOUND PHOTO

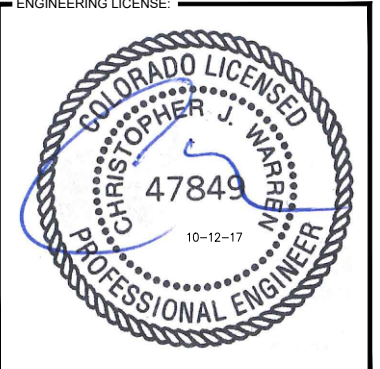


PROPOSED COMPOUND PHOTO

PLANS PREPARED FOR:
T-Mobile
 2323 Delegany Street
 Denver, CO 80216

PLANS PREPARED BY:
INFINIGY
 FROM ZERO TO INFINIGY
 the solutions are endless
 7301 Federal Blvd, Suite 301
 Westminster, CO 80030
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MLA PARTNER:
verticalbridge
 750 Park of Commerce Drive
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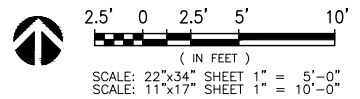
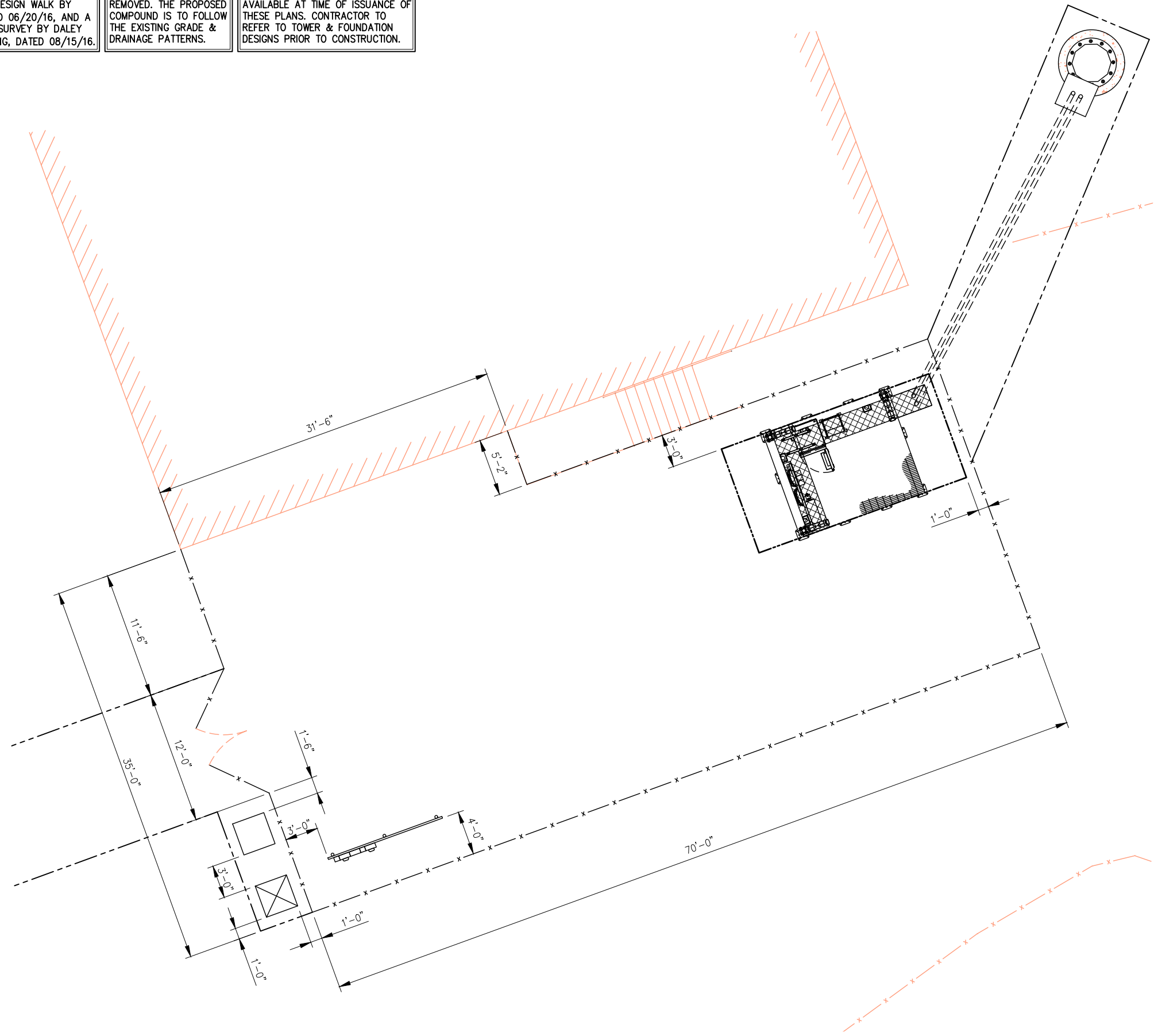
SHEET DESCRIPTION:
PROPOSED SITE PLAN

SHEET NUMBER:
A-2

BASEMAPPING INFORMATION IS BASED ON A DESIGN WALK BY INFINIGY, DATED 06/20/16, AND A TOPOGRAPHIC SURVEY BY DALEY LAND SURVEYING, DATED 08/15/16.

ONLY TOPSOIL IS TO BE REMOVED. THE PROPOSED COMPOUND IS TO FOLLOW THE EXISTING GRADE & DRAINAGE PATTERNS.

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.



STAKING PLAN

NO SCALE

1

PLANS PREPARED FOR:



2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:



FROM ZERO TO INFINIGY
the solutions are endless

7301 Federal Blvd, Suite 301
Westminster, CO 80030
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER 404-052

MLA PARTNER:



750 Park of Commerce Drive
Suite 200
Boca Raton, FL 33487
Office # (561) 948-6367

ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISIONS:

DESCRIPTION	DATE	BY	REV
REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

12119 McCLURE ROAD
FALCON, CO 80831

SHEET DESCRIPTION:

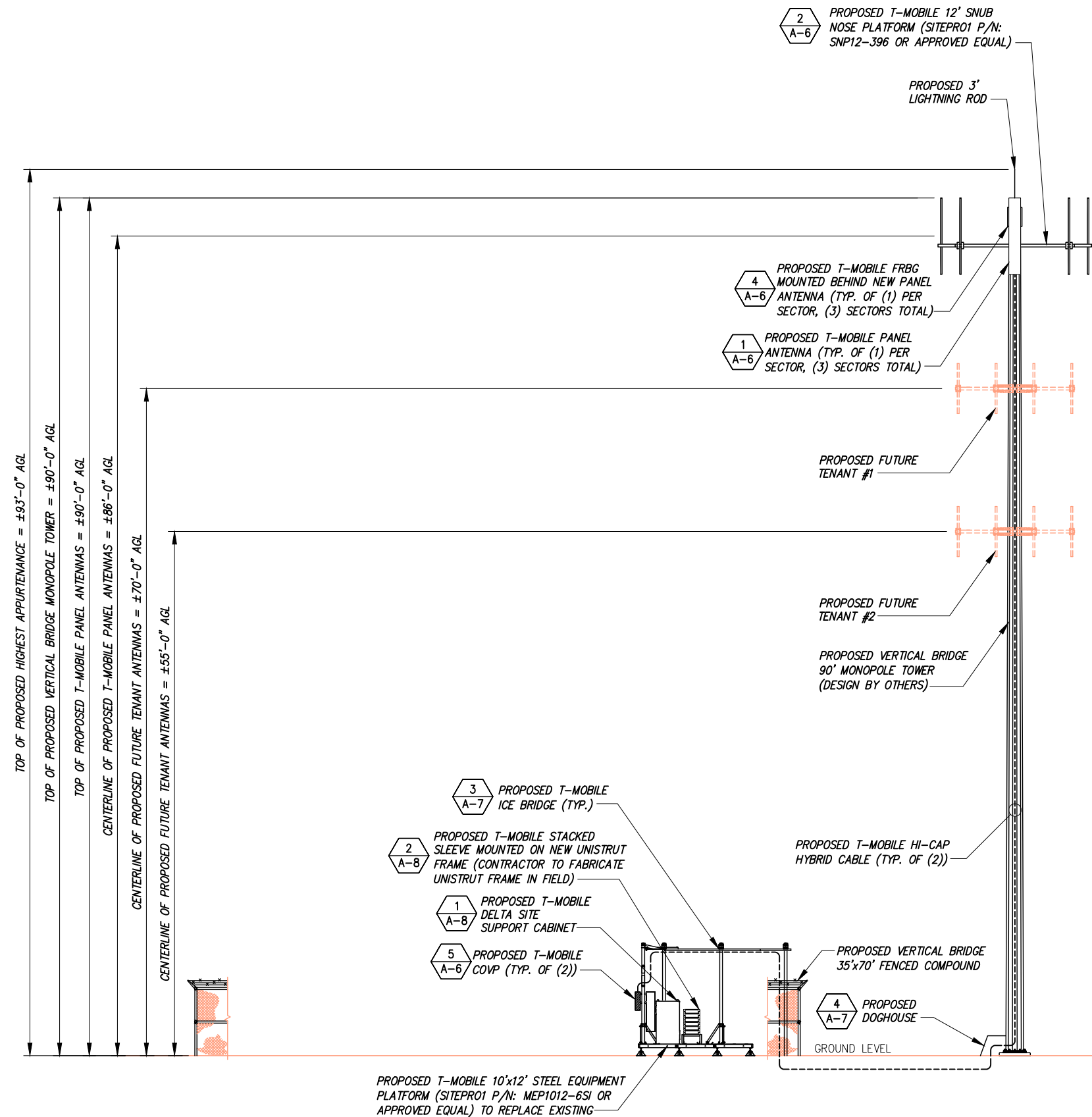
STAKING PLAN

SHEET NUMBER:

A-3

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.

INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNT FOR THIS SITE AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS PRIOR TO ANY CONSTRUCTION.



PROPOSED TOWER ELEVATION

NO SCALE

1



PROPOSED TOWER PHOTO

NO SCALE

2

PLANS PREPARED FOR:

2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:

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ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

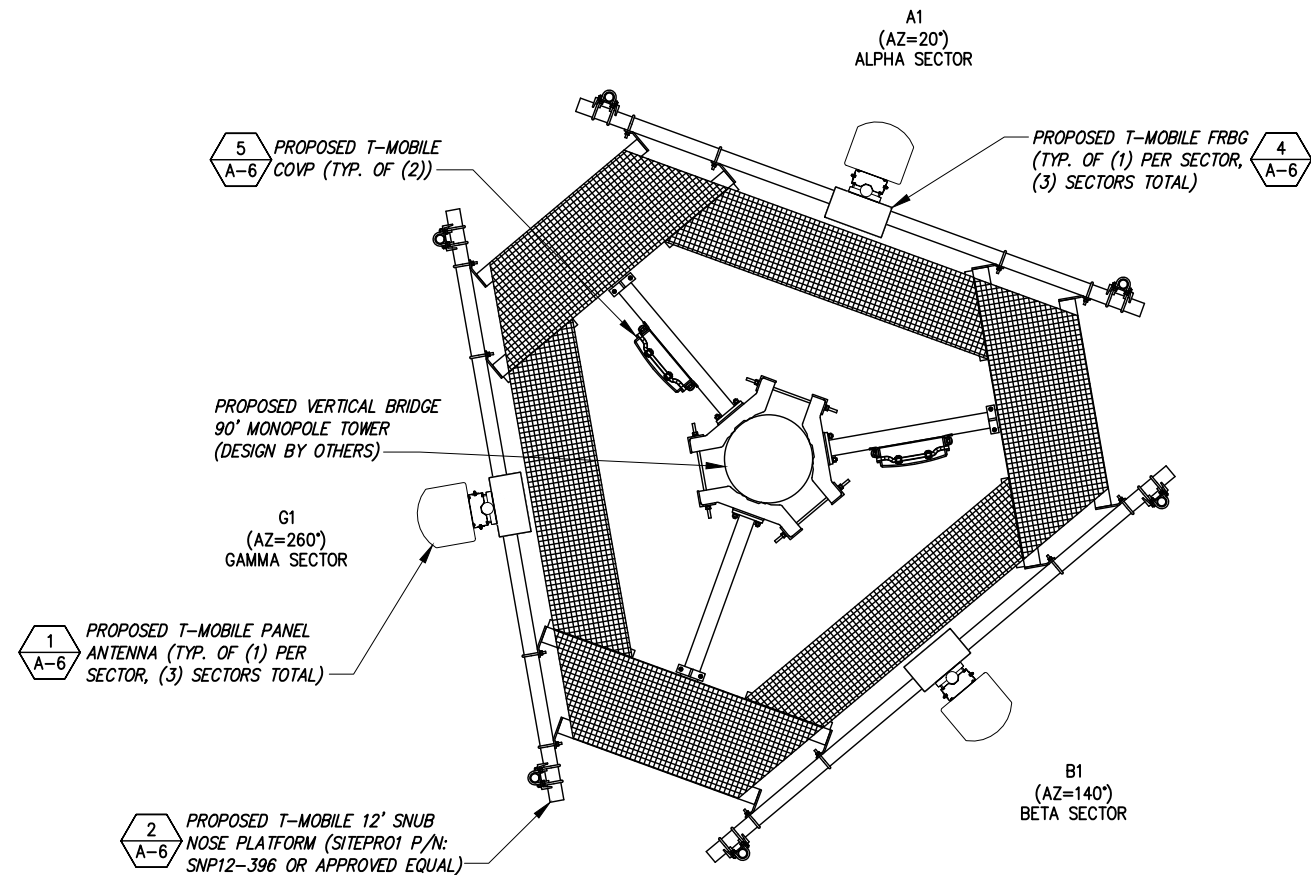
T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
12119 McCLURE ROAD
FALCON, CO 80831

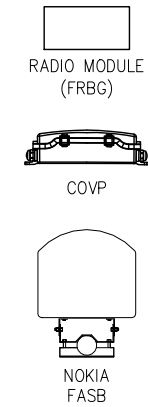
SHEET DESCRIPTION:
PROPOSED TOWER
ELEVATION

SHEET NUMBER:
A-4



THE CONFIGURATION PLAN IS BASED ON PROVIDED INFORMATION AND IS FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.

ANTENNA & COMPONENT LEGEND



PLANS PREPARED FOR:

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Denver, CO 80216

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Suite 200
Boca Raton, FL 33487
Office # (561) 948-6367

ENGINEERING LICENSE:

10-12-17

PROPOSED ANTENNA LAYOUT

NO SCALE

1

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ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
12119 McCLURE ROAD
FALCON, CO 80831

SHEET DESCRIPTION:
ANTENNA LAYOUT & LOADING CHART

SHEET NUMBER:
A-5

SITE LOADING CHART

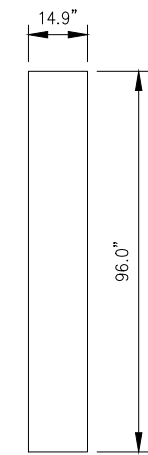
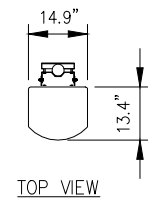
SECTOR	POSITION	SECTOR COLOR	TECHNOLOGY	ANTENNA MODEL #	VENDOR	QTY. (REMOVED)	QTY. (NEW)	TMA (QTY/MODEL)	AZIMUTH	DOWNTILT		RAD CENTER	FEED LINE TYPE/LENGTH
										MECHANICAL	ELECTRICAL		
ALPHA	A1	RED	LTE 700/LTE AWS UMTS PCS	FASB RAS	NOKIA	--	1	--	20°	0	4/2/0	±86' AGL	PROPOSED (2) HI-CAP HYBRID CABLES LENGTH = ±175'
BETA	B1	BLUE	LTE 700/LTE AWS UMTS PCS	FASB RAS	NOKIA	--	1	--	140°	0	4/2/0	±86' AGL	HYBRID CABLES SHARED W/ ALPHA SECTOR
GAMMA	G1	WHITE	LTE 700/LTE AWS UMTS PCS	FASB RAS	NOKIA	--	1	--	260°	0	4/2/0	±86' AGL	HYBRID CABLES SHARED W/ ALPHA SECTOR

NOTE:
CABLE LENGTHS ARE BASED ON PROVIDED INFORMATION. CONTRACTOR TO VERIFY REQUIRED CABLE LENGTHS PRIOR TO CONSTRUCTION.

SITE LOADING CHART

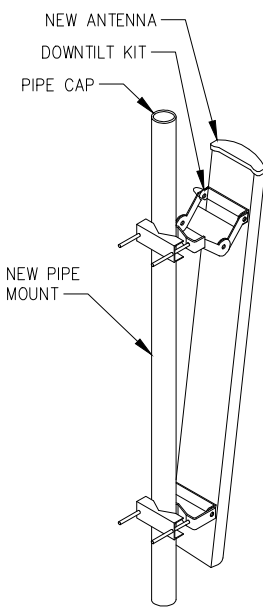
NO SCALE

2

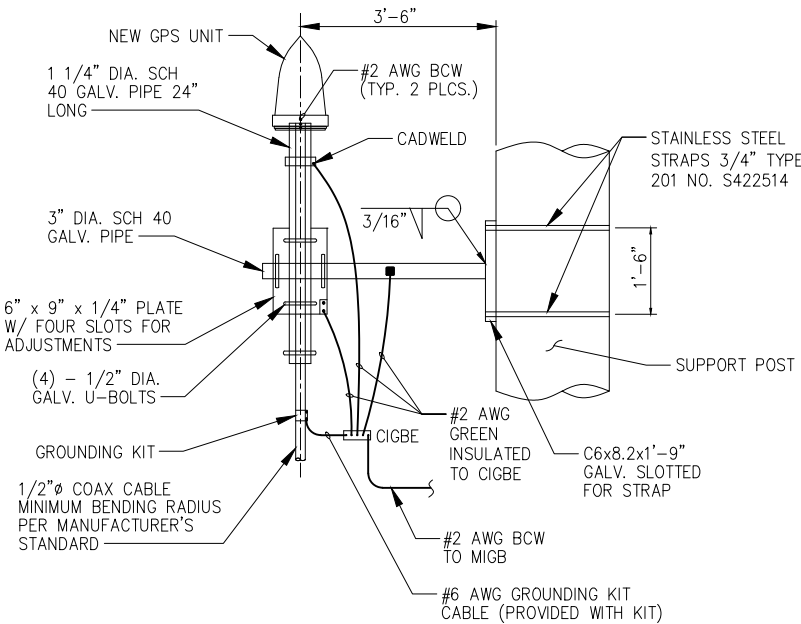
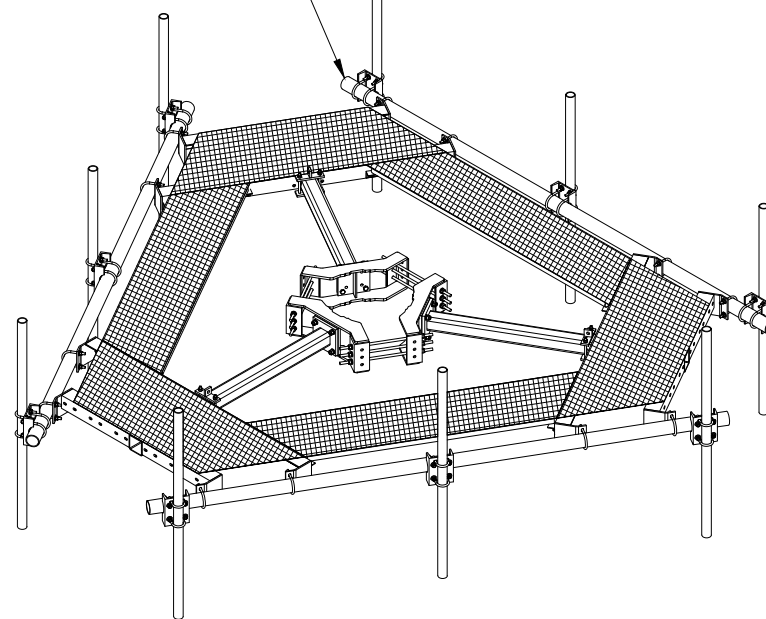


FRONT VIEW

NOKIA ANTENNA
P/N: FASB



PROPOSED T-MOBILE 12' SNUB
NOSE PLATFORM (SITEPRO1 P/N:
SNP12-396 OR APPROVED EQUAL)



THE ELEVATION AND LOCATION OF THE GPS UNIT SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORTS.

THE GPS UNIT MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" DIAMETER, SCHEDULE 40 GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE GPS MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE GPS MOUNT.

ANTENNA DETAIL

NO SCALE

1

ANTENNA MOUNT DETAIL

NO SCALE

2

TYPICAL GPS MOUNTING DETAIL

NO SCALE

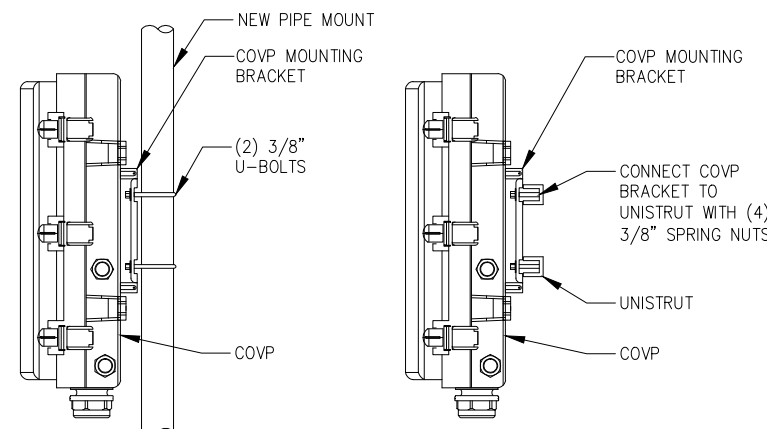
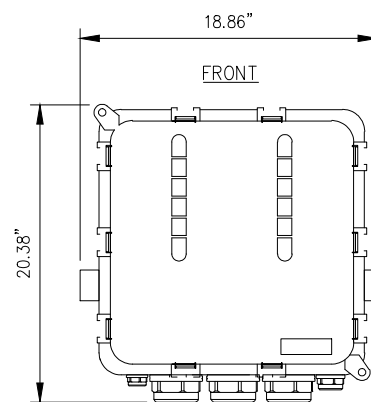
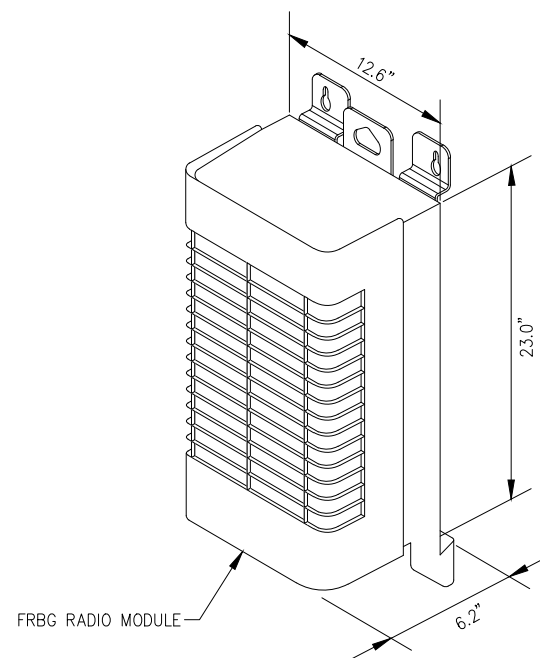
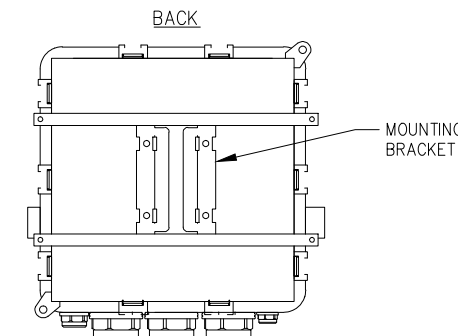
3

DIMENSIONS (WxHxD) W/O SOLAR COVER OR MOUNTING	12.6"x23.0"x6.2"
RADIO MODULE UNIT WEIGHT	24.0 kg/52.9 lbs
MOUNTING BRACKET WEIGHT	2.0 kg/4.4 lbs
TOTAL WEIGHT	26.0 kg/57.3 lbs

NOTE:
RADIO MODULE TO BE
MOUNTED VERTICALLY ONLY.

RAYCAP: ASUTYP01 (RNSNDC-7771-PF-48)

NOMINAL OPERATING VOLTAGE: 48VDC
 NOMINAL DISCHARGE CURRENT: 20ka 8/20ms
 MAXIMUM DISCHARGE CURRENT: 60ka 8/20ms
 MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75VDC
 VOLTAGE PROTECTION RATING: 400V
 CLEARANCE: FRONT: 36"
 TOTAL WEIGHT: 19 lbs.



FRBG DETAIL

NO SCALE

4

COVP & MOUNTING DETAILS

NO SCALE

5

PLANS PREPARED FOR:

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 Denver, CO 80216

PLANS PREPARED BY:

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 Office # (303) 219-1178
 Fax # (303) 242-8636
 JOB NUMBER 404-052

MLA PARTNER:

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ENGINEERING LICENSE:

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ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

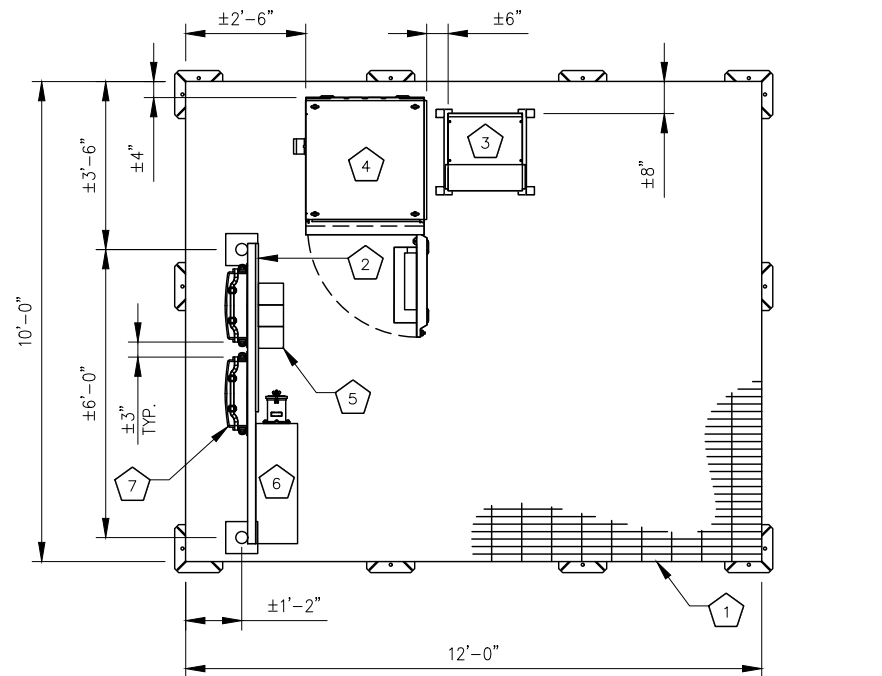
SITE ADDRESS:
**12119 McCLURE ROAD
 FALCON, CO 80831**

SHEET DESCRIPTION:
**EQUIPMENT &
 MOUNTING DETAILS**

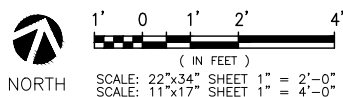
SHEET NUMBER:
A-6

CODED DRAWING NOTES:

- 1 PROPOSED T-MOBILE 10'x12' STEEL EQUIPMENT PLATFORM (SITEPOR1 P/N: MEP1012-6SI OR APPROVED EQUAL)
- 2 PROPOSED T-MOBILE H-FRAME
- 3 PROPOSED T-MOBILE STACKED SLEEVE
- 4 PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET
- 5 PROPOSED T-MOBILE CIENA ENCLOSURE
- 6 PROPOSED T-MOBILE PPC CABINET
- 7 PROPOSED T-MOBILE COVP (TYP. OF (2))



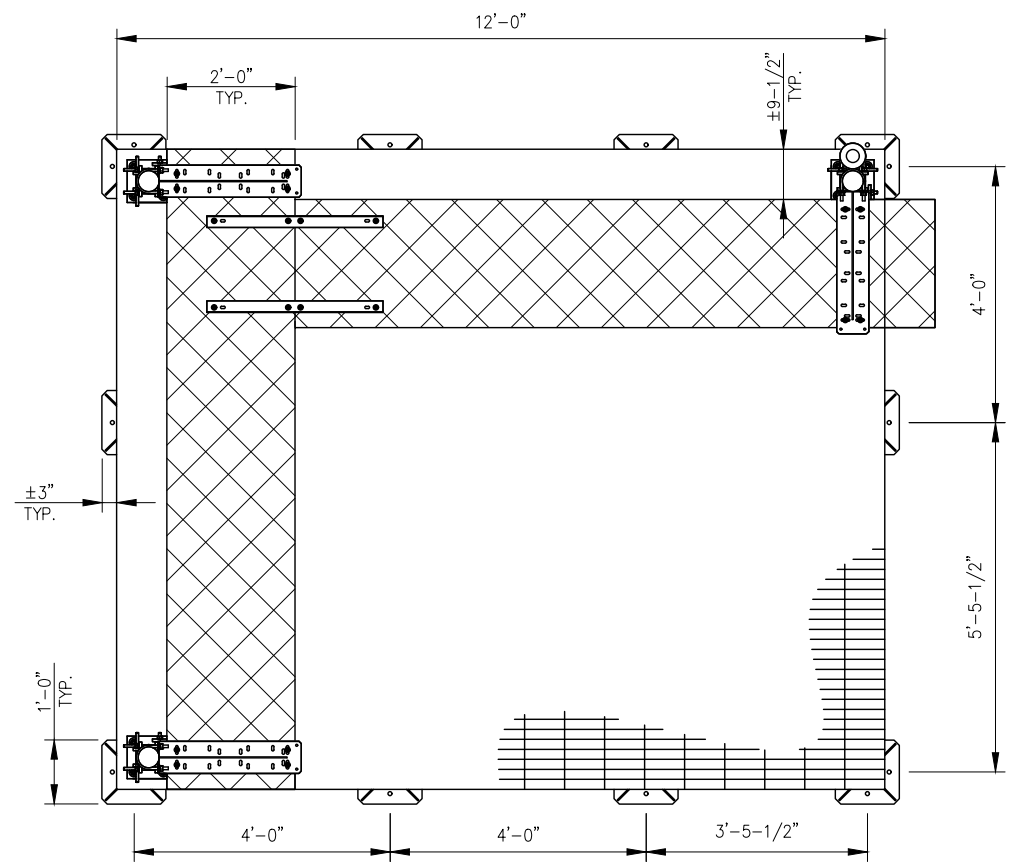
NOTE:
ICE BRIDGE NOT SHOWN FOR CLARITY.



PLATFORM EQUIPMENT LAYOUT

SCALE: AS NOTED

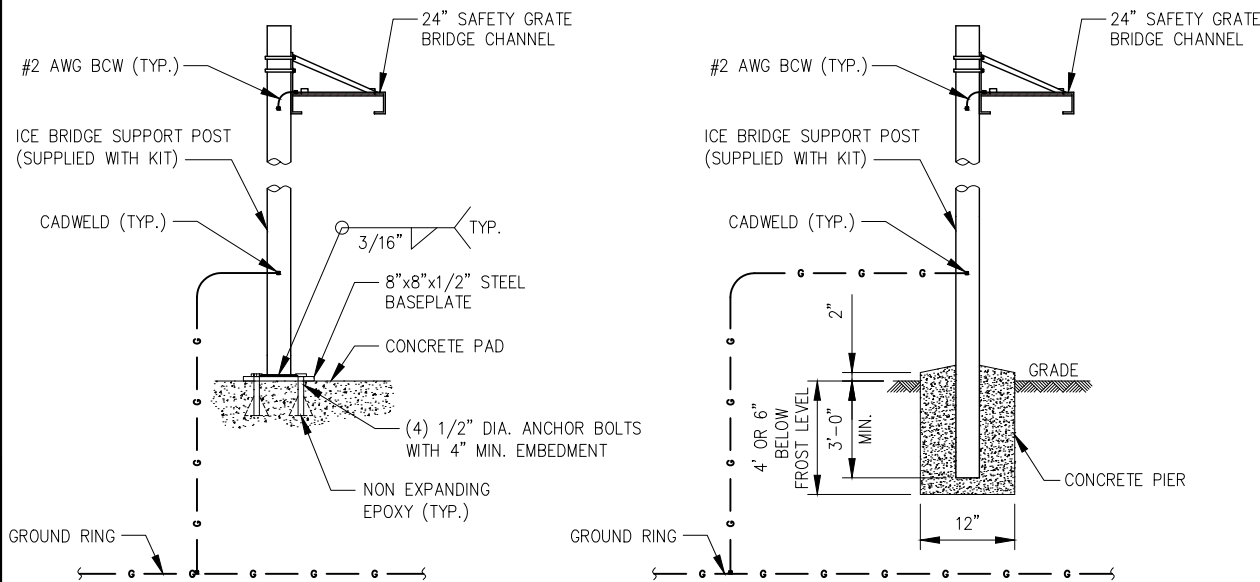
1



STEEL EQUIPMENT CABINET PLATFORM

SCALE: AS NOTED

1

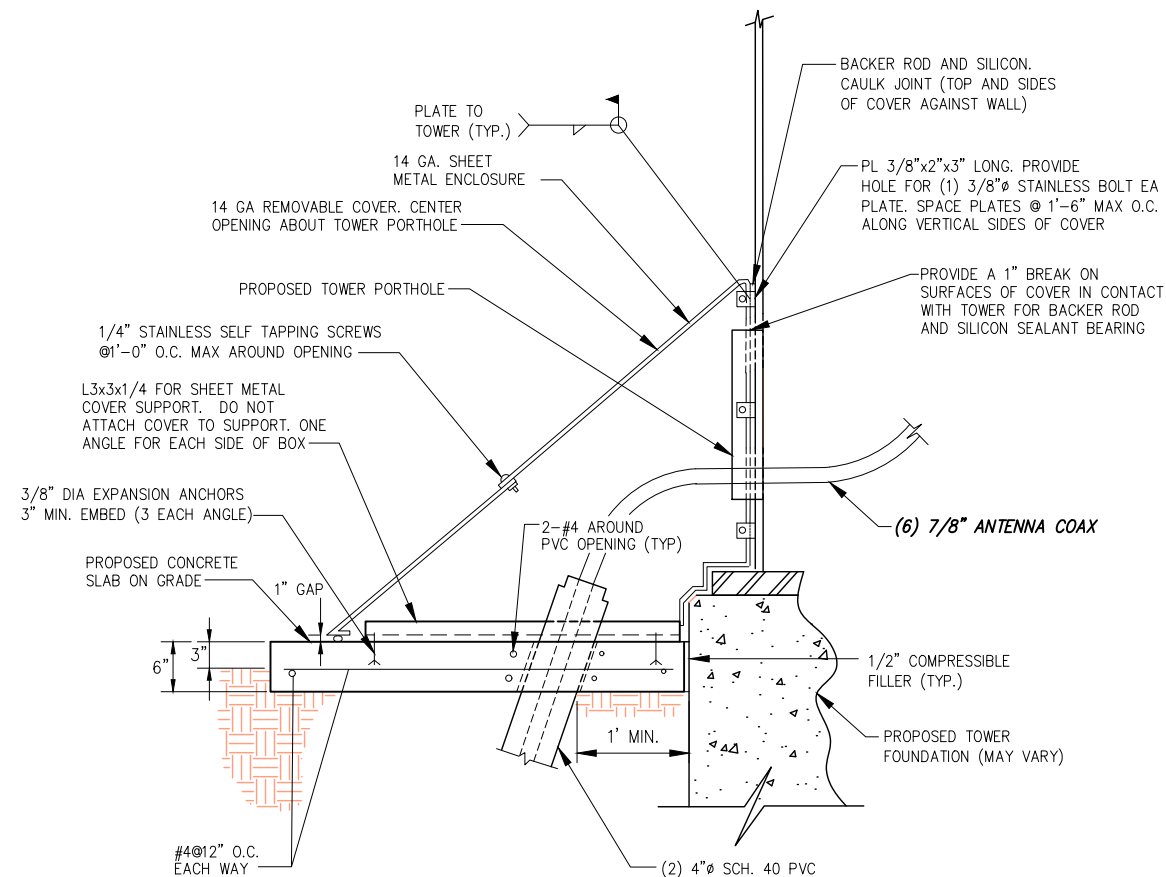


- NOTES:
1. USE SITE PRO PARTS OR APPROVED EQUIVALENT.
 2. SUPPORT POSTS SHALL BE LOCATED ON ALTERNATING SIDES OF ICE BRIDGE SPACED NO MORE THAN 6'-0".
 3. ANY SPLICES OR CANTILEVERED SECTIONS OF THE ICE BRIDGE SHALL BE LOCATED WITHIN 2'-0" OF A SUPPORT POST.
 4. CONTRACTOR SHALL PROVIDE ADEQUATE ICE BRIDGE TO COVER ALL EQUIPMENT CABINETS
 5. CONCRETE SHALL BE 3000 PSI

TYPICAL ICE BRIDGE DETAILS

NO SCALE

2



DOGHOUSE DETAIL (TYPICAL)

NO SCALE

3

PLANS PREPARED FOR:

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Denver, CO 80216

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MLA PARTNER:

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VERTICAL BRIDGE SITE NAME:
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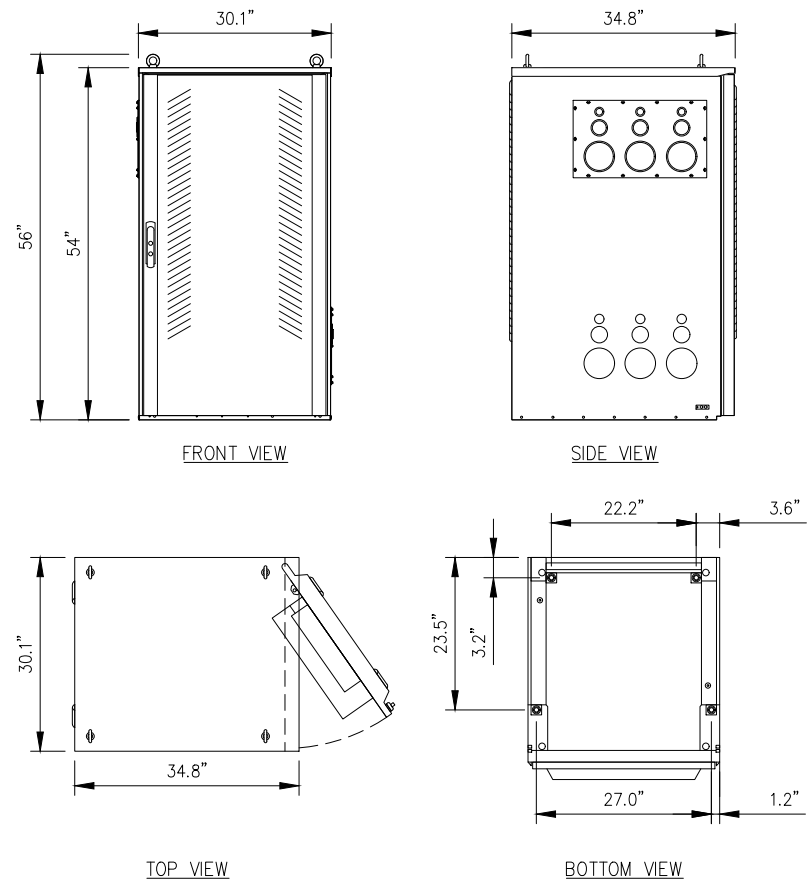
T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:
**EQUIPMENT LAYOUT
& DETAILS**

SHEET NUMBER:
A-7



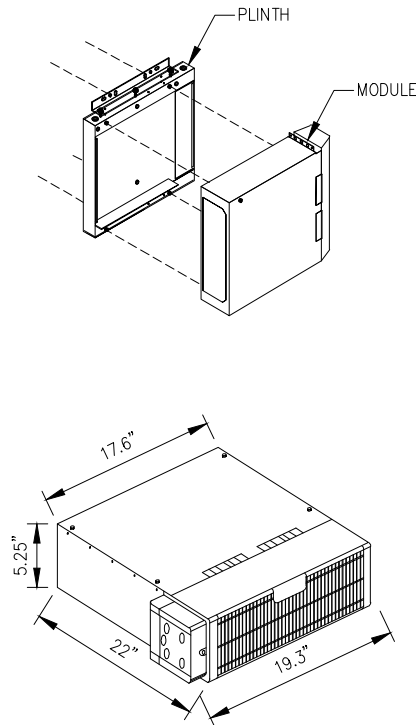
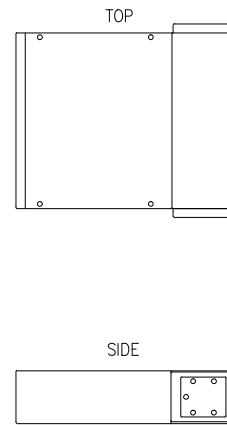
DELTA SITE SUPPORT CABINET DETAIL

NO SCALE

1

NOKIA FLEX SYSTEM RADIO MODULES:
FBBC, FSME, FSMF, FXFC

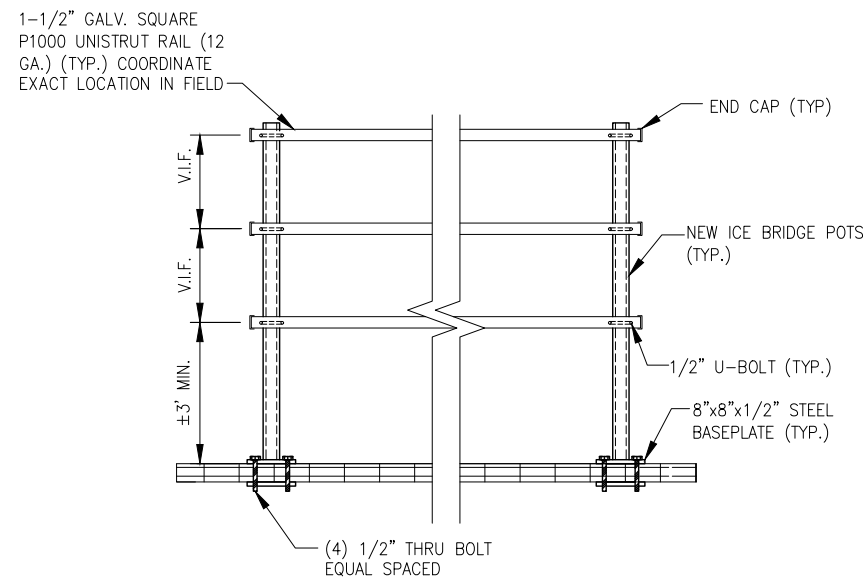
CLEARANCES: FRONT: 23.6"
BACK: 8"
TOP: 1.2"
SIDES: 4"
WEIGHT: 44 lbs.
NOTE: MODULE CAN BE INSTALLED VERTICALLY AND HORIZONTALLY



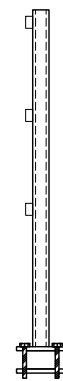
RADIO MODULE DETAIL

NO SCALE

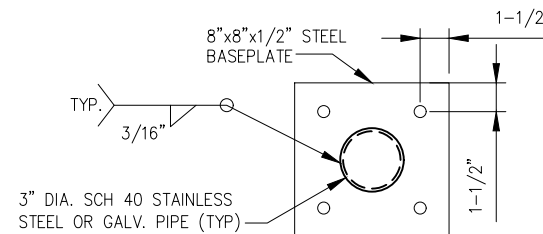
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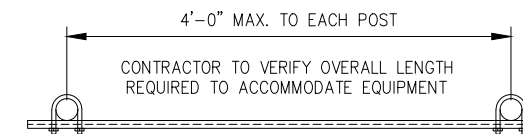
ELEVATION



END VIEW



BASEPLATE VIEW



PLAN VIEW

TYPICAL H-FRAME FABRICATION DETAIL

NO SCALE

3

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Denver, CO 80216

PLANS PREPARED BY:

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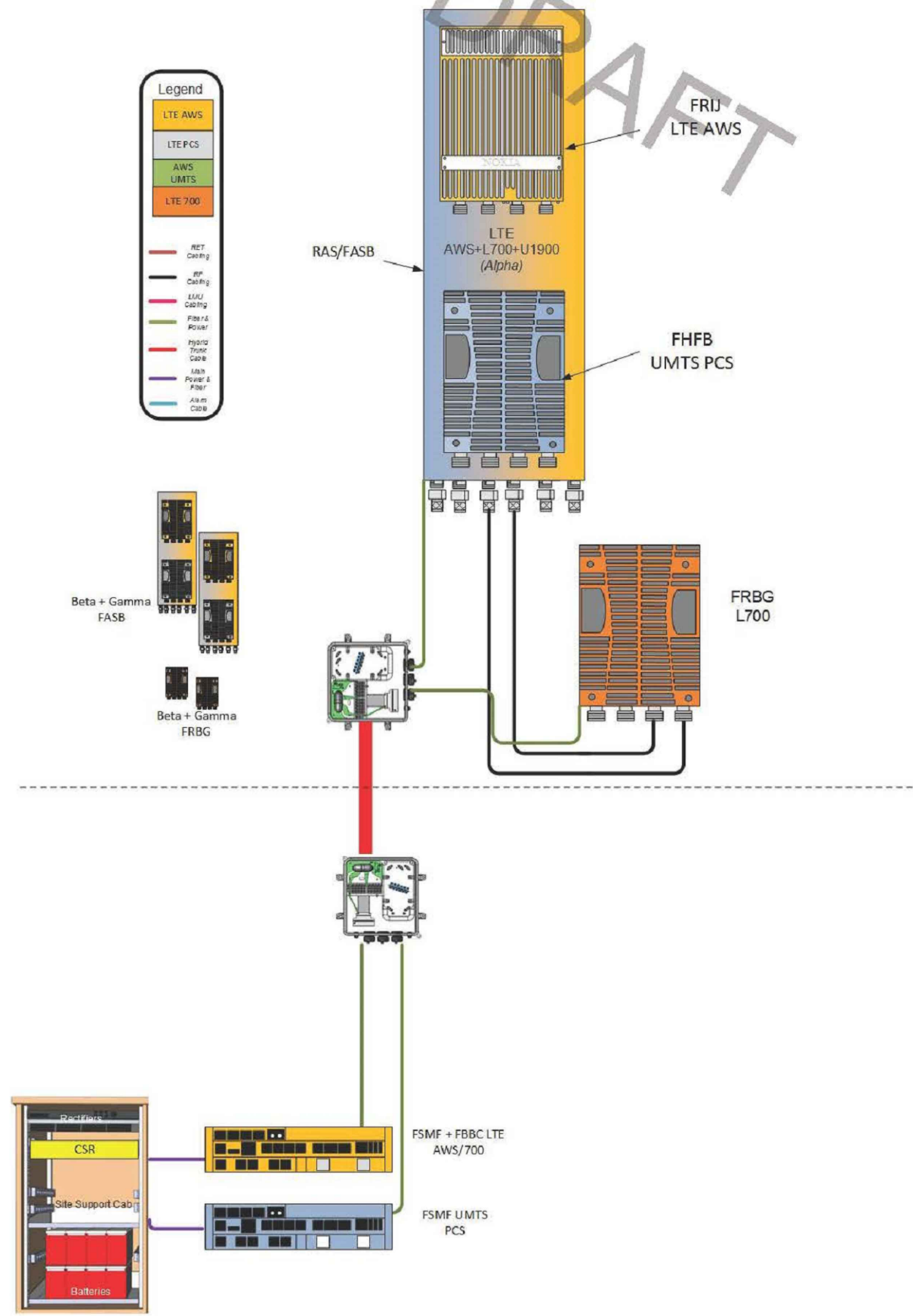
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SITE ADDRESS:
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FALCON, CO 80831**

SHEET DESCRIPTION:
**EQUIPMENT &
MOUNTING DETAILS**

SHEET NUMBER:
A-8

NSD custom RAS configuration 716R (L700/L2100/U1900)



PLANS PREPARED FOR:
T-Mobile
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VERTICAL BRIDGE SITE NAME:
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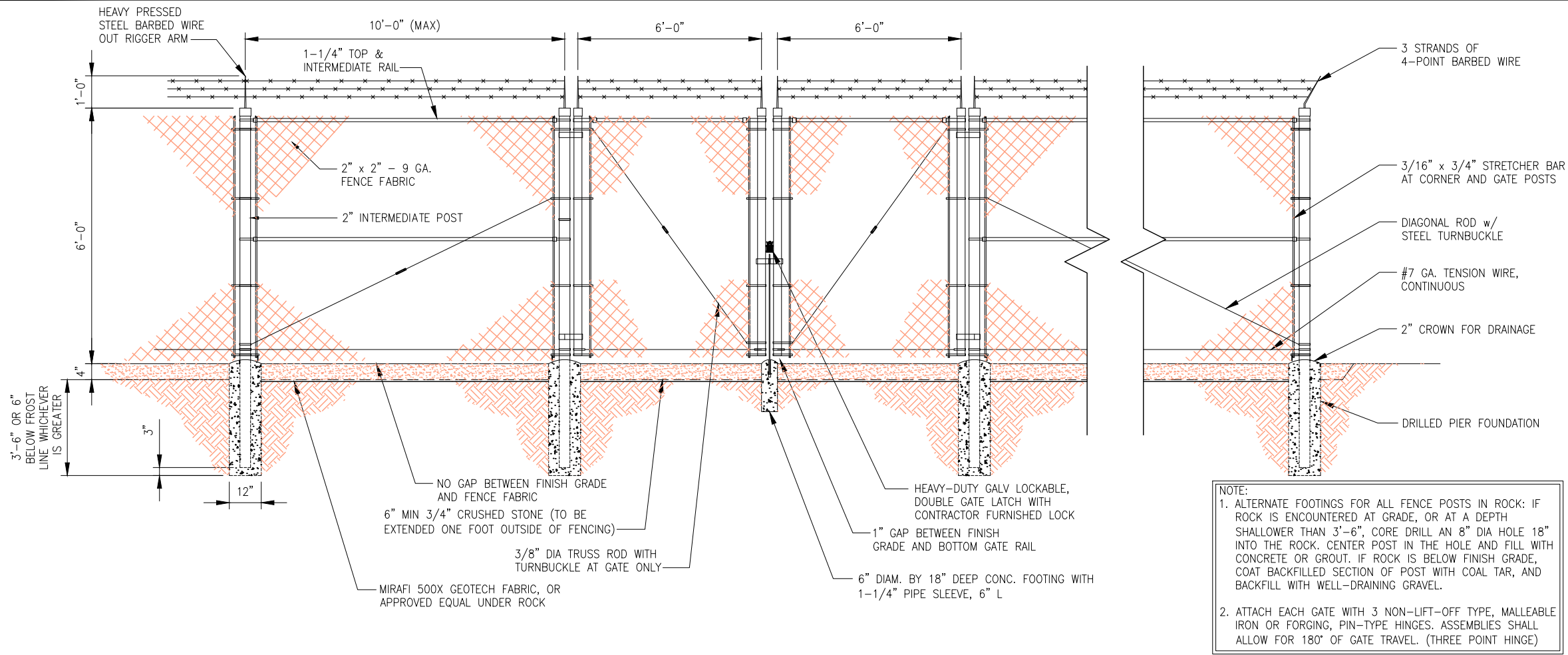
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VERTICAL BRIDGE SITE #:
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SITE ADDRESS:
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 FALCON, CO 80831**

SHEET DESCRIPTION:
PLUMBING DIAGRAM

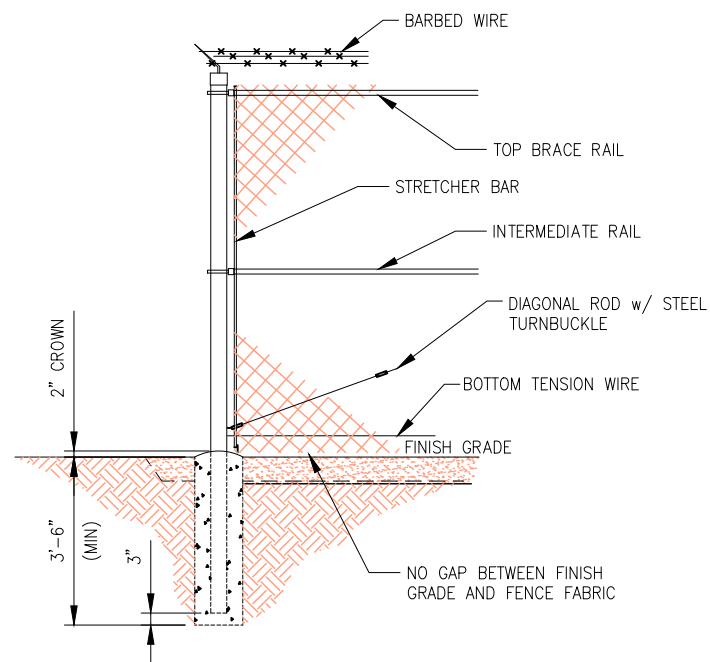
SHEET NUMBER:
A-9



DOUBLE SWING ACCESS GATE DETAIL

NO SCALE

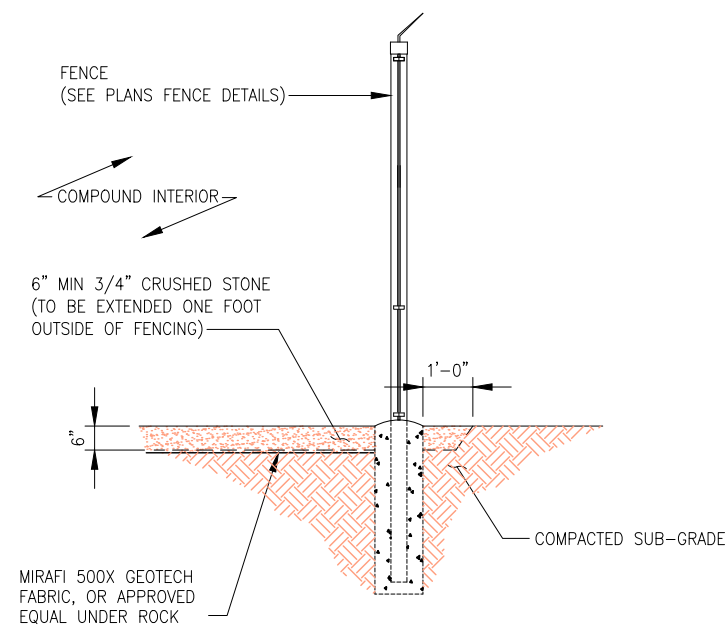
1



CHAIN LINK FENCE DETAIL

NO SCALE

2



SECTION THROUGH COMPOUND

NO SCALE

3

PLANS PREPARED FOR:

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Denver, CO 80216

PLANS PREPARED BY:

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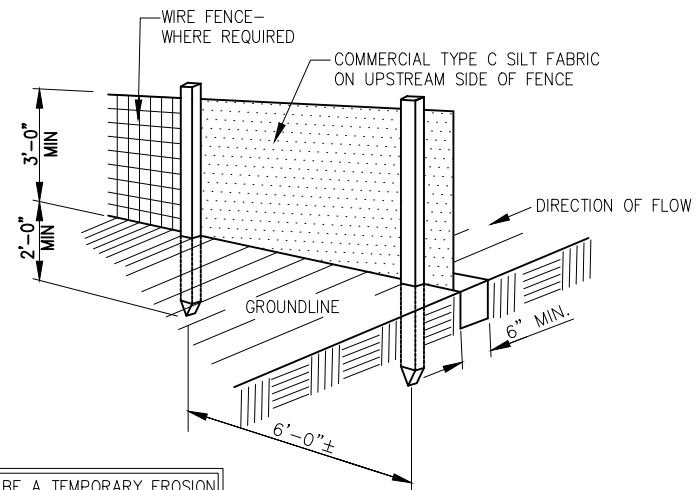
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VERTICAL BRIDGE SITE #:
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**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:
FENCE DETAILS

SHEET NUMBER:
A-10



SILT FENCE IS TO BE A TEMPORARY EROSION CONTROL DEVICE, AND SHOULD REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6IN AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST.

- NOTE:
1. DIG TRENCH.
 2. LAY IN FABRIC TO BOTTOM OF TRENCH.
 3. BACKFILL TRENCH, COVERING FABRIC.

POSTS: STEEL EITHER T OR U TYPE.

FENCE: WOVEN WIRE 14 GA. 6" MAX. MESH OPENING.

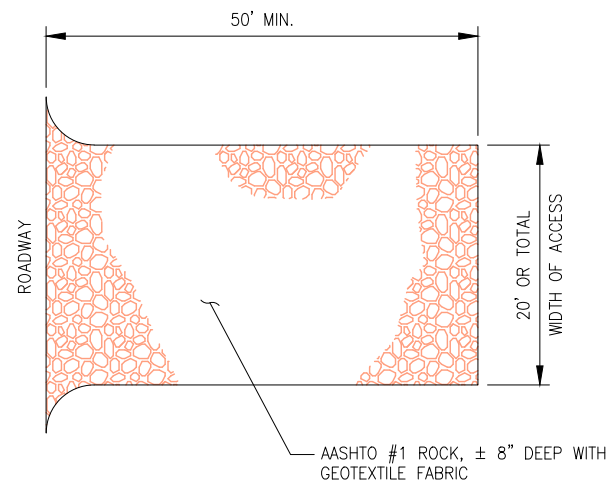
FILTER CLOTH: FILTER X, MIRAFL 100X' STABILINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB ENVIROFENCE OR APPROVED EQUAL.

SILT FENCE DETAIL

NO SCALE

1

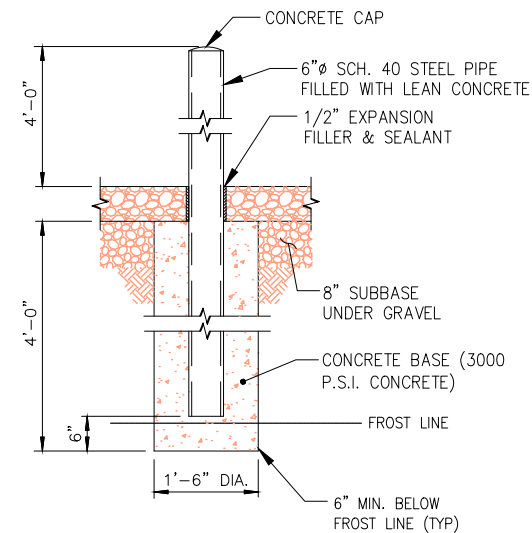


- NOTES:
1. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.
 2. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

DRIVEWAY SECTION - CROWNED

NO SCALE

2



BOLLARD DETAIL

NO SCALE

3

PLANS PREPARED FOR:

2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:

FROM ZERO TO INFINIGY
the solutions are endless

7301 Federal Blvd, Suite 301
Westminster, CO 80030
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER 404-052

MLA PARTNER:

750 Park of Commerce Drive
Suite 200
Boca Raton, FL 33487
Office # (561) 948-6367

ENGINEERING LICENSE:

DRAWING NOTICE:

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REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
12119 McCLURE ROAD
FALCON, CO 80831

SHEET DESCRIPTION:
CIVIL DETAILS

SHEET NUMBER:
A-11

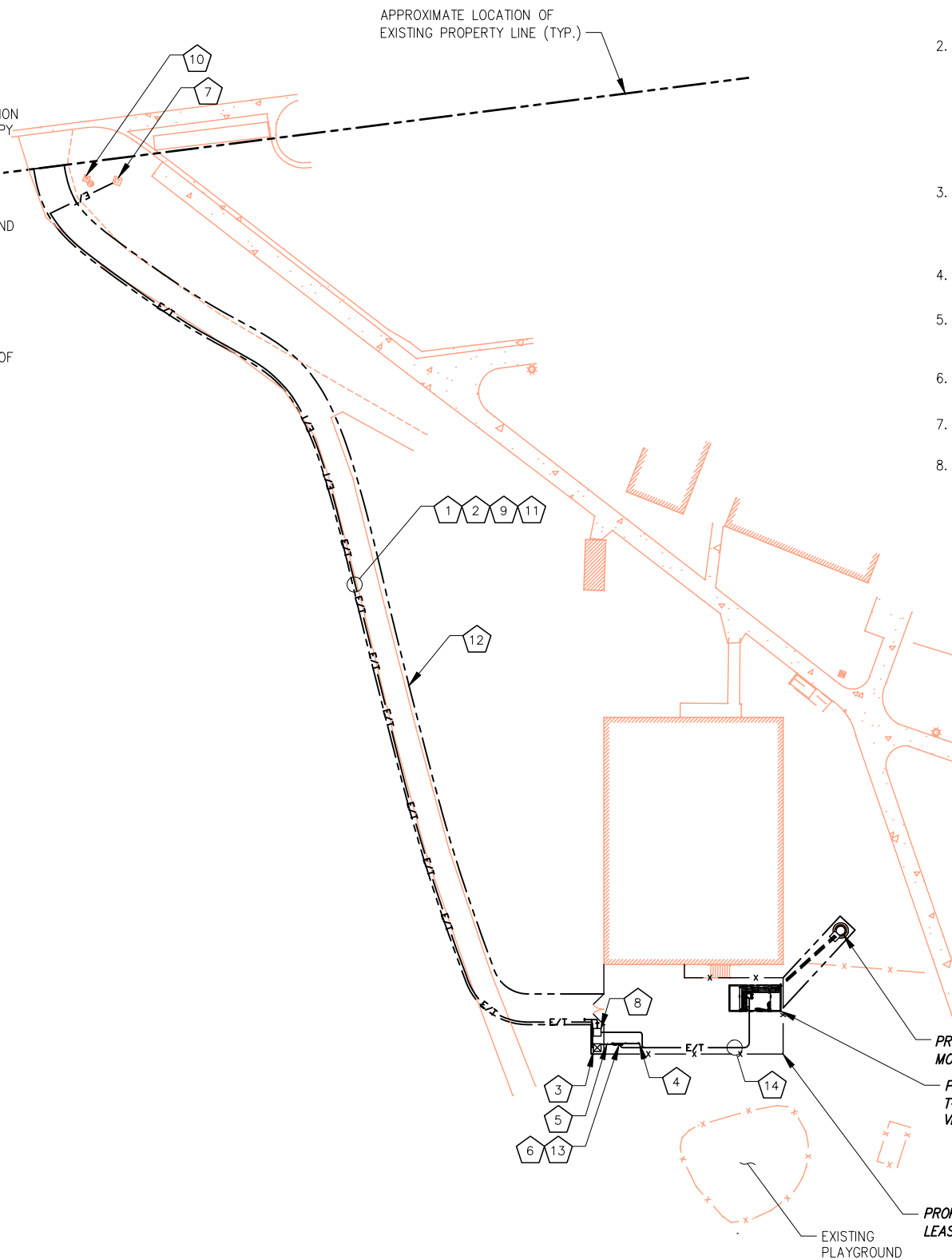
UTILITY NOTES:

1. CONNECTION TO EXISTING UTILITIES AND INCOMING POWER AND TELEPHONE SERVICES IS FOR CONCEPT ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC AND TELEPHONE UTILITIES AND CARRIER.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC AND TELEPHONE UTILITIES TO ENSURE TO A TIMELY INSTALLATION OF THE INCOMING POWER AND TELEPHONE SERVICES. THE CARRIER WILL OBTAIN AN ELECTRIC SERVICE ORDER (ESO) FOR THIS SITE PRIOR TO THE CONTRACTOR INITIATING ANY WORK ON-SITE.
3. THE INCOMING ELECTRIC SERVICE SHALL BE INSPECTED BY THE AUTHORITY HAVING JURISDICTION AND A CERTIFICATE OF SUCH INSPECTION SHALL BE FURNISHED TO THE CARRIER WITH A COPY FORWARDED TO THAT UTILITY.
4. ANY UTILITY CHARGES ASSOCIATED WITH THIS SITE SHALL BE PAID BY THE CARRIER AND NO CHARGES, THEREFORE SHALL ACCRUE TO THE CONTRACTOR.
5. COORDINATE METER SOCKET REQUIREMENTS AND UTILITY METER ENCLOSURE WITH CARRIER. AND ELECTRIC UTILITY.
6. INCOMING ELECTRIC SERVICES SHALL BE IN CONFORMANCE WITH THE UTILITIES STANDARDS (LATEST EDITION).
7. INSTALL PULL ROPES IN ALL CONDUITS UNLESS NOTED OTHERWISE.
8. CONDUIT RUNS SHALL HAVE ONE 18"x18"x8" TRAFFIC RATED PULLBOX AFTER 270 DEGREES OF BEND.
9. CONDUIT RUNS SHALL HAVE A PULLBOX WITH A MAXIMUM SPACING OF 500 LINEAR FEET.

CODED DRAWING NOTES:

- 1 COORDINATE EXACT LOCATION WITH UTILITY COMPANY. STUB UP POWER AND CONDUITS AS DIRECTED BY UTILITY COMPANY. REFER TO EQUIPMENT SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS.
- 2 PROPOSED UNDERGROUND POWER SERVICE ROUTED FROM NEAREST DEMARC TO PROPOSED TRANSFORMER. (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 3 PROPOSED TRANSFORMER PROVIDED BY ELECTRIC SERVICE PROVIDER (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 4 PROPOSED 10' WIDE UTILITY RACK/H-FRAME
- 5 CONTRACTOR TO PROVIDE (2) 4" SCH 40 PVC CONDUITS FROM TRANSFORMER TO 4-GANG METER BANK (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 6 PROPOSED MAIN ELECTRICAL SERVICE CABINET WITH 4-GANG METER BANK
- 7 EXISTING TRANSFORMER
- 8 PROPOSED TELCO CABINET PROVIDED BY TELCO COMPANY (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.)
- 9 PROPOSED TELCO IN 4" SCH. 40 PVC FROM NEAREST TELCO/FIBER DEMARC TO PROPOSED TELCO CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 10 EXISTING TELCO PEDESTAL
- 11 ALL TELCO CONDUITS SHALL USE LONG SWEEPS AT BENDS.
- 12 PROPOSED VERTICAL BRIDGE 15' WIDE ACCESS & UTILITY EASEMENT
- 13 PROPOSED T-MOBILE METER & DISCONNECT IN PROPOSED 4-GANG METER BANK
- 14 PROPOSED SCH 40 PVC CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) & PROPOSED SCH 40 PVC CONDUIT FOR FIBER FROM PROPOSED TELCO CABINET TO PROPOSED CIENA ENCLOSURE (PENDING COORDINATION WITH UTILITY COMPANIES)

NOTE:
CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COORDINATE LOCATION OF ALL PROPOSED DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. CONDUITS EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID ABOVE GRADE. PROVIDE 36" SEPARATION BETWEEN UNDERGROUND POWER AND TELEPHONE CONDUITS. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS.
3. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED, POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER IMMEDIATELY.
6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS NOT DUCT TAPE.
7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

ABBREVIATIONS:

&	AND
AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
BTS	BARE TINNED STRANDED
C	CONDUIT
CAB	CABINET
CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
DLO	DIESEL LOCOMOTIVE CABLE
DWG	DRAWING
EGR	EXTERIOR GROUND RING
EIGB	EXTERIOR ISOLATED GROUND BAR
G	GROUND
GPS	GLOBAL POSITIONING SYSTEM
HALO	INTERIOR GROUND RING
MIGB	MAIN ISOLATED GROUND BAR
MGN	MULTI-GROUNDED NEUTRAL
MSC	MOBILE SWITCHING CENTER
MTSO	MOBILE TELEPHONE SWITCHING OFFICE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SS	STAINLESS STEEL
SST	SELF SUPPORT TOWER
TGR	TOWER GROUND RING
TYP.	TYPICAL
W/	WITH

PLANS PREPARED FOR:



PLANS PREPARED BY:



MLA PARTNER:



ENGINEERING LICENSE:



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REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

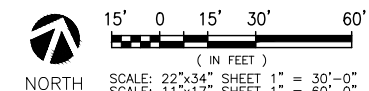
**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:

**OVERALL
UTILITY LAYOUT**

SHEET NUMBER:

E-1



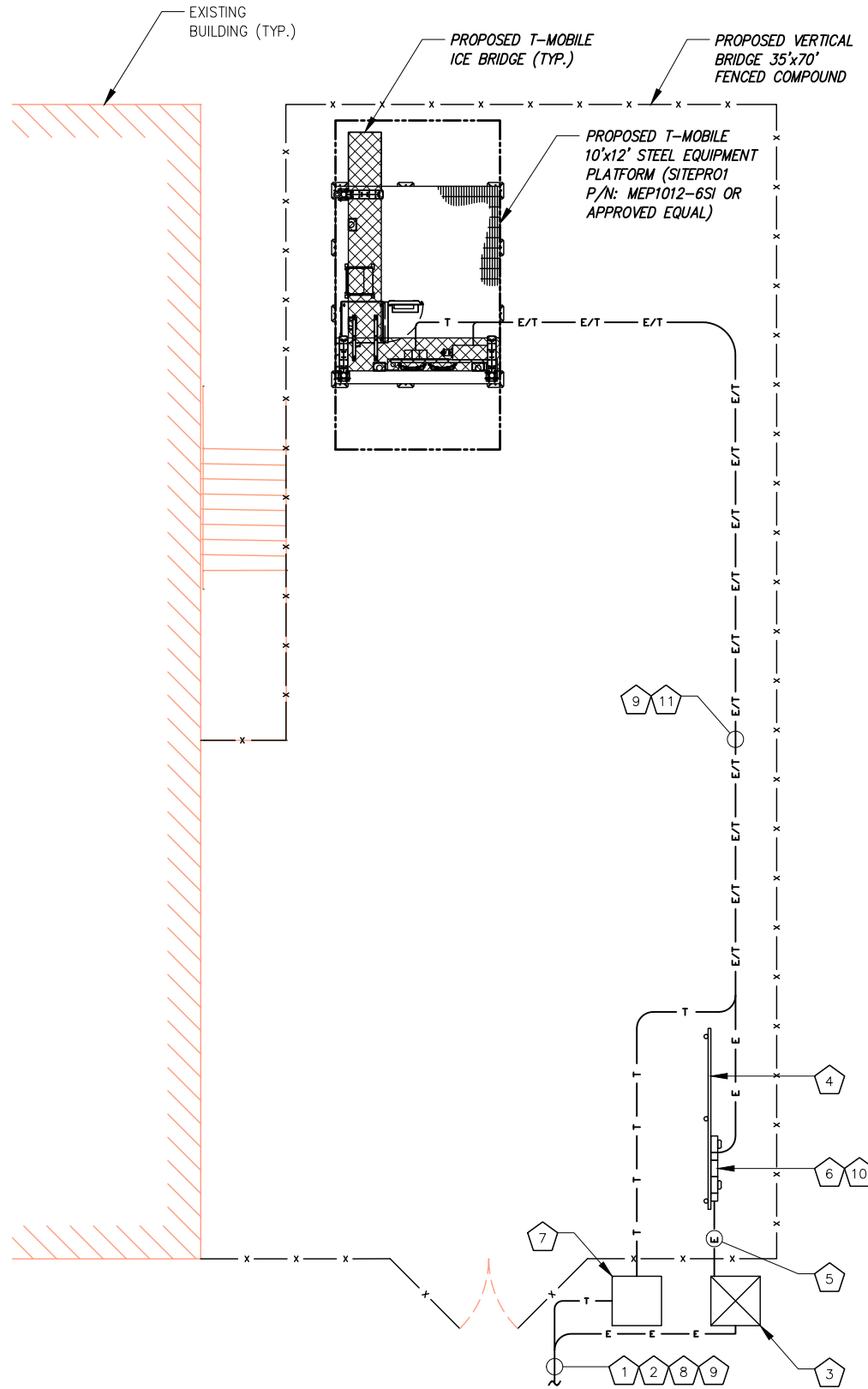
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CODED DRAWING NOTES:

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4. PROPOSED 10' WIDE UTILITY RACK/H-FRAME
5. CONTRACTOR TO PROVIDE (2) 4" SCH 40 PVC CONDUITS FROM TRANSFORMER TO 4-GANG METER BANK (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
6. PROPOSED MAIN ELECTRICAL SERVICE CABINET WITH 4-GANG METER BANK
7. PROPOSED TELCO CABINET PROVIDED BY TELCO COMPANY (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.)
8. PROPOSED TELCO IN 4" SCH. 40 PVC FROM NEAREST TELCO/FIBER DEMARC TO PROPOSED TELCO CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
9. ALL TELCO CONDUITS SHALL USE LONG SWEEPS AT BENDS.
10. PROPOSED T-MOBILE METER & DISCONNECT IN PROPOSED 4-GANG METER BANK
11. PROPOSED SCH 40 PVC CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) & PROPOSED SCH 40 PVC CONDUIT FOR FIBER FROM PROPOSED TELCO CABINET TO PROPOSED CIENA ENCLOSURE (PENDING COORDINATION WITH UTILITY COMPANIES)

NOTE:
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TGR	TOWER GROUND RING
TYP.	TYPICAL
W/	WITH

ELECTRICAL SYMBOLS:

⊕	RECEPTACLE
— E —	BURIED POWER CONDUIT
— T —	BURIED TELCO CONDUIT
(M)	ELECTRICAL METER
#	INDICATES CODED NUMBER
□	SAFETY SWITCH
⊘	UTILITY POLE

PLANS PREPARED FOR:



PLANS PREPARED BY:



MLA PARTNER:



ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

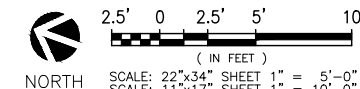
**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:

**COMPOUND
UTILITY LAYOUT**

SHEET NUMBER:

E-2



GENERAL ELECTRICAL NOTES:

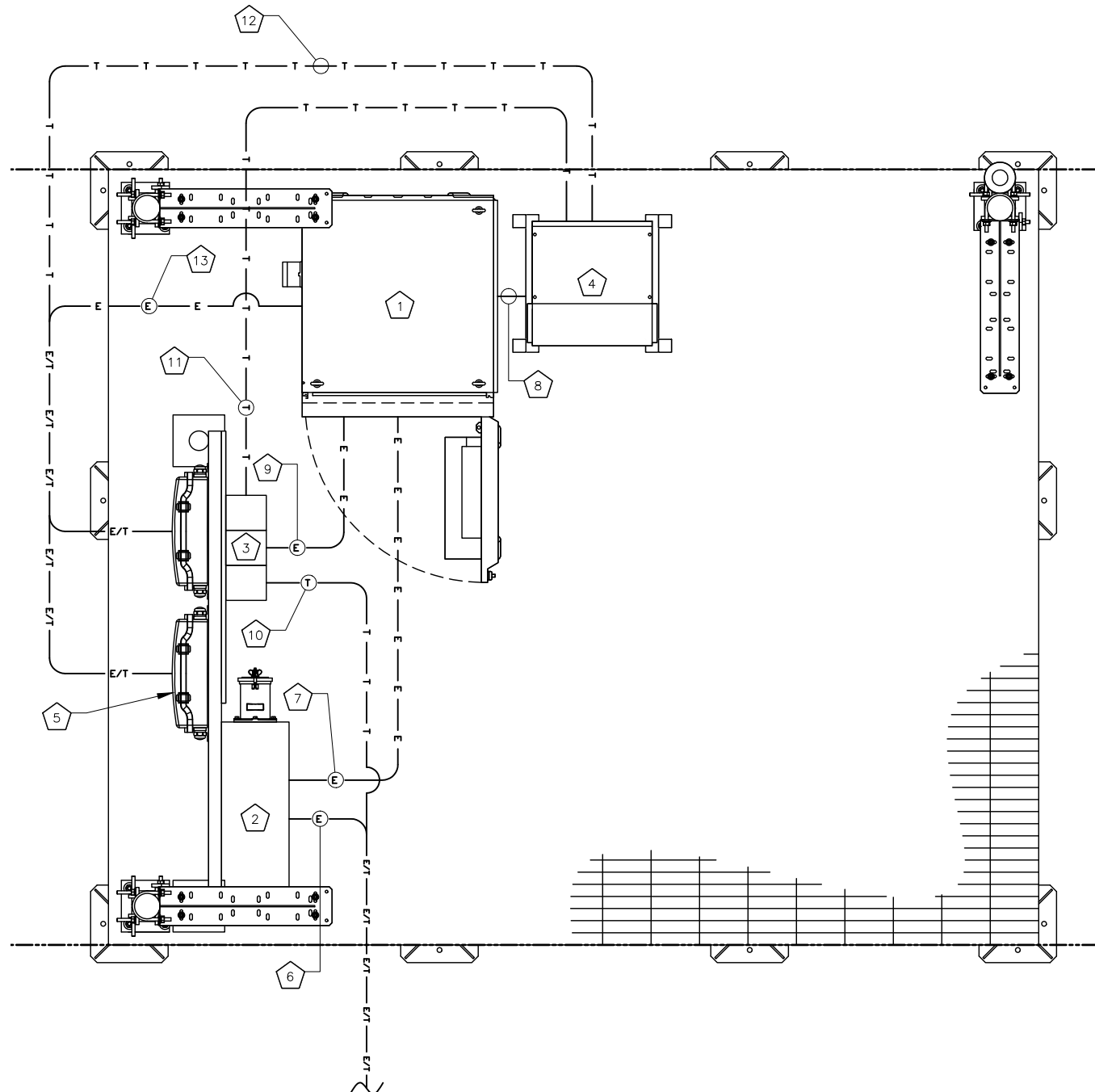
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7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

CODED DRAWING NOTES:

- 1 PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET
- 2 PROPOSED T-MOBILE PPC CABINET
- 3 PROPOSED CIENA ENCLOSURE
- 4 PROPOSED T-MOBILE STACKED SLEEVE
- 5 PROPOSED T-MOBILE COVP (TYP. OF (2))
- 6 (1) 2" PVC CONDUIT WITH (3) 3#0 & (1) #6 GROUND AWG FROM NEW T-MOBILE DISCONNECT TO PROPOSED T-MOBILE PPC (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 7 (1) 2" GRC OR LIQUIDTIGHT CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- 8 (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR DC POWER TO PROPOSED T-MOBILE STACKED SLEEVE (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- 9 (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR DC POWER TO PROPOSED CIENA ENCLOSURE (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- 10 (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR FIBER FROM NEW TELCO CABINET TO PROPOSED CIENA ENCLOSURE
- 11 (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR FIBER FROM PROPOSED CIENA ENCLOSURE TO PROPOSED T-MOBILE STACKED SLEEVE
- 12 (2) 1" GRC OR LIQUIDTIGHT CONDUITS FOR FIBER FROM PROPOSED T-MOBILE STACKED SLEEVE TO PROPOSED T-MOBILE COVPs
- 13 (3) 1" GRC OR LIQUIDTIGHT CONDUITS FOR DC POWER FROM PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET TO PROPOSED T-MOBILE COVPs (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER'S SPECIFICATIONS)

NOTE:
ICE BRIDGE NOT SHOWN FOR CLARITY.

NOTE:
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TYP.	TYPICAL
W/	WITH

ELECTRICAL SYMBOLS:

⊕	RECEPTACLE
— E —	BURIED POWER CONDUIT
— T —	BURIED TELCO CONDUIT
Ⓜ	ELECTRICAL METER
#	INDICATES CODED NUMBER
□	SAFETY SWITCH
⊘	UTILITY POLE

PLANS PREPARED FOR:



PLANS PREPARED BY:



MLA PARTNER:



ENGINEERING LICENSE:



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VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

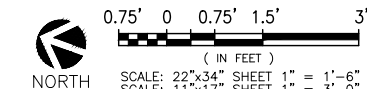
12119 McCLURE ROAD
FALCON, CO 80831

SHEET DESCRIPTION:

EQUIPMENT
UTILITY LAYOUT

SHEET NUMBER:

E-3





2323 Delegany Street
Denver, CO 80216



FROM ZERO TO INFINIGY
the solutions are endless

7301 Federal Blvd, Suite 301
Westminster, CO 80030
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER 404-052



750 Park of Commerce Drive
Suite 200
Boca Raton, FL 33487
Office # (561) 948-6367



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WOODMEN ELEMENTARY

DN04333A

US-CO-5052

12119 McCLURE ROAD
FALCON, CO 80831

ELECTRICAL DETAILS

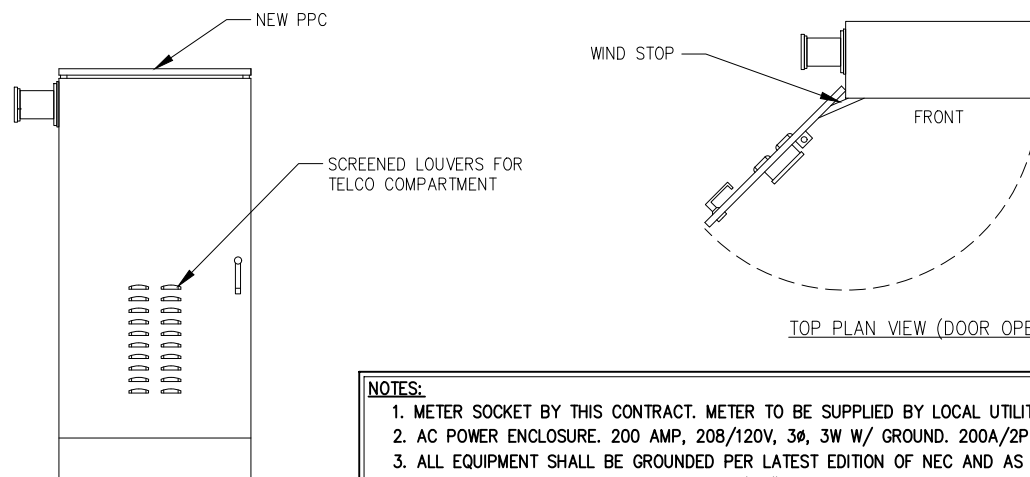
E-4

CKT NO.	CKT BKR		DESCRIPTION	LOAD (WATTS)				DESCRIPTION	CKT BKR		CKT NO.
	AMPS	POLES		L1	L2	LCL	L2		L1	POLES	
1	20	1	GFCI RECEPTACLE	180			600	TVSS	2	30	2
3	20	1	LIGHTS		360		600				4
5	--	1	EMPTY	0			TBD	SSC	TBD	TBD	6
7	--	1	EMPTY		0		TBD				8
9	--	1	EMPTY	0			0	EMPTY	TBD	TBD	10
11	--	1	EMPTY		0		0	EMPTY	TBD	TBD	12
PHASE TOTALS (WATTS)				TBD	TBD		TBD				
TOTAL CONNECTED (WATTS)				TBD	TBD						
PHASE BALANCE				TBD	TBD						
TOTAL AMPS PER PHASE (AMPS)				TBD	TBD						
TOTAL LOAD (AMPS)				TBD							

BREAKER PANEL SCHEDULE

NO SCALE

2

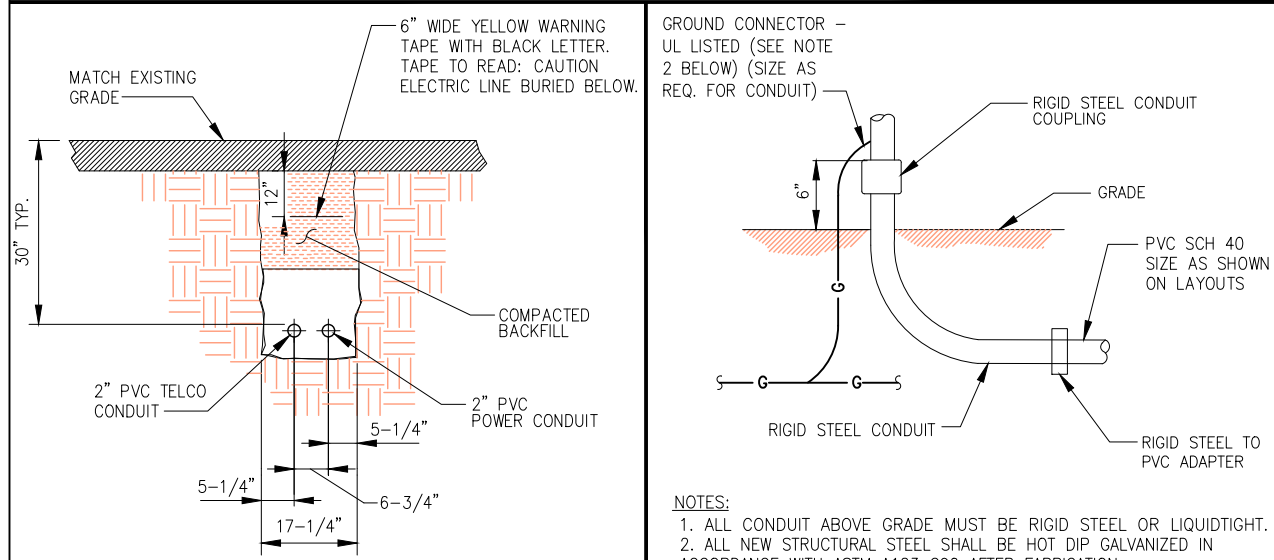


- NOTES:
- METER SOCKET BY THIS CONTRACT. METER TO BE SUPPLIED BY LOCAL UTILITY COMPANY.
 - AC POWER ENCLOSURE. 200 AMP, 208/120V, 3Ø, 3W W/ GROUND. 200A/2P MAIN CIRCUIT BREAKER.
 - ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED.
 - ELECTRICAL EQUIPMENT SHALL BE MIN. 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES AND AHJ.
 - CONTRACTOR MUST LABEL ALIKE BREAKERS IN POWER CABINET.
 - REFER TO ACTUAL EQUIPMENT DRAWINGS.

PPC DETAIL

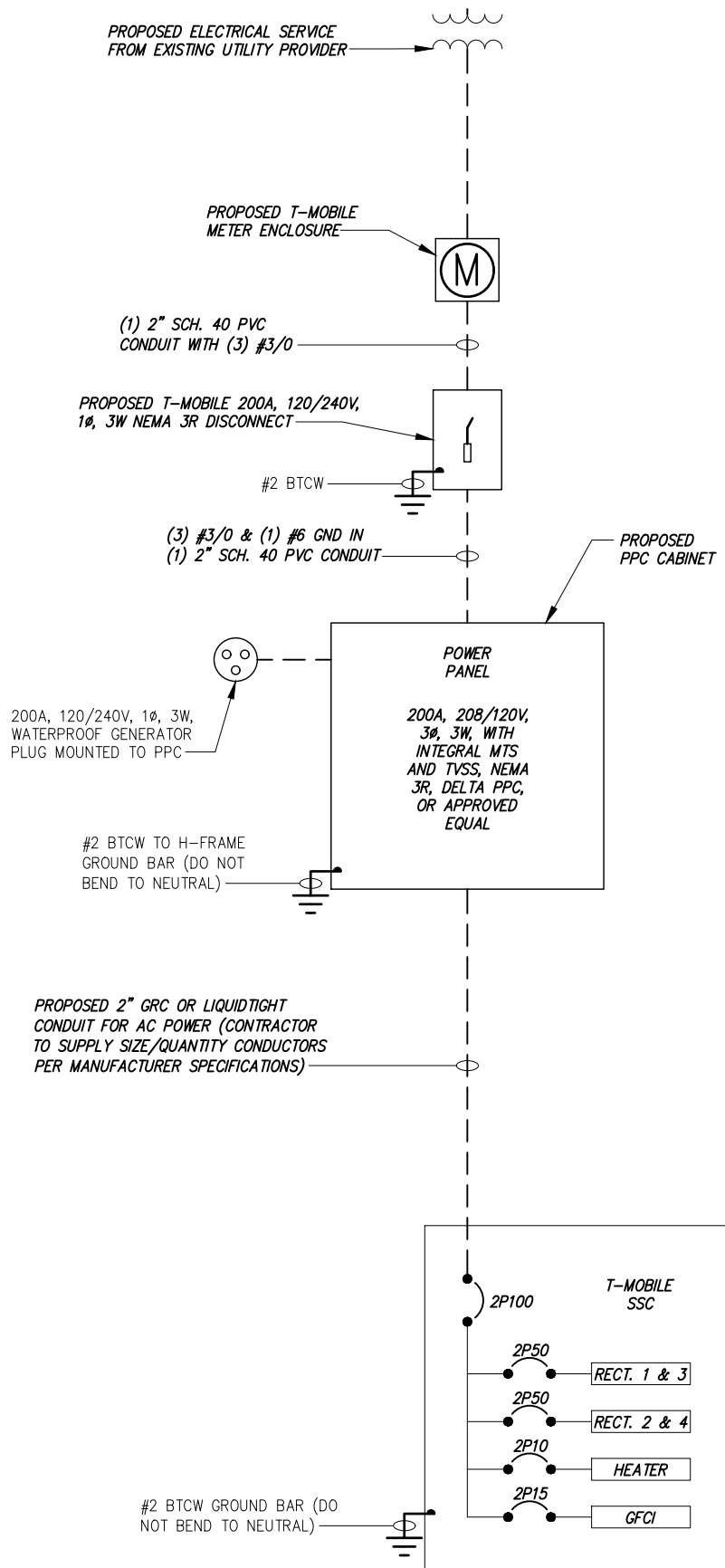
NO SCALE

3



- NOTE:
- NUMBER AND SIZE OF CONDUITS MAY VARY. SEE DWG E-1 THRU E-3 FOR CONDUIT SIZE AND LOCATION. CONFIRM DIMENSIONS SHOWN WITH UTILITY COMPANY.

- NOTES:
- ALL CONDUIT ABOVE GRADE MUST BE RIGID STEEL OR LIQUIDTIGHT.
 - ALL NEW STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 G90 AFTER FABRICATION.
 - FIELD ABRASIONS SHALL BE TOUCH UP PAINTED WITH ZINC RICH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780.
 - ALL EXPOSED ENDS OF CONDUITS SHALL HAVE WEATHER PROOF CAPS. DO NOT USE DUCT TAPE.
 - PROVIDE 200LB. TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT. STUB CONDUITS INTO ENCLOSURE AND LABEL.



NOTE:
CONTRACTOR TO CONFIRM WITH LOCAL UTILITY PROVIDER PRIOR TO CONSTRUCTION

ELECTRICAL ONE LINE DIAGRAM

NO SCALE

1

CONDUIT TRENCH DETAIL

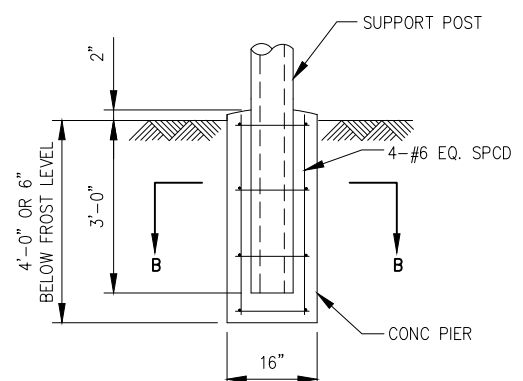
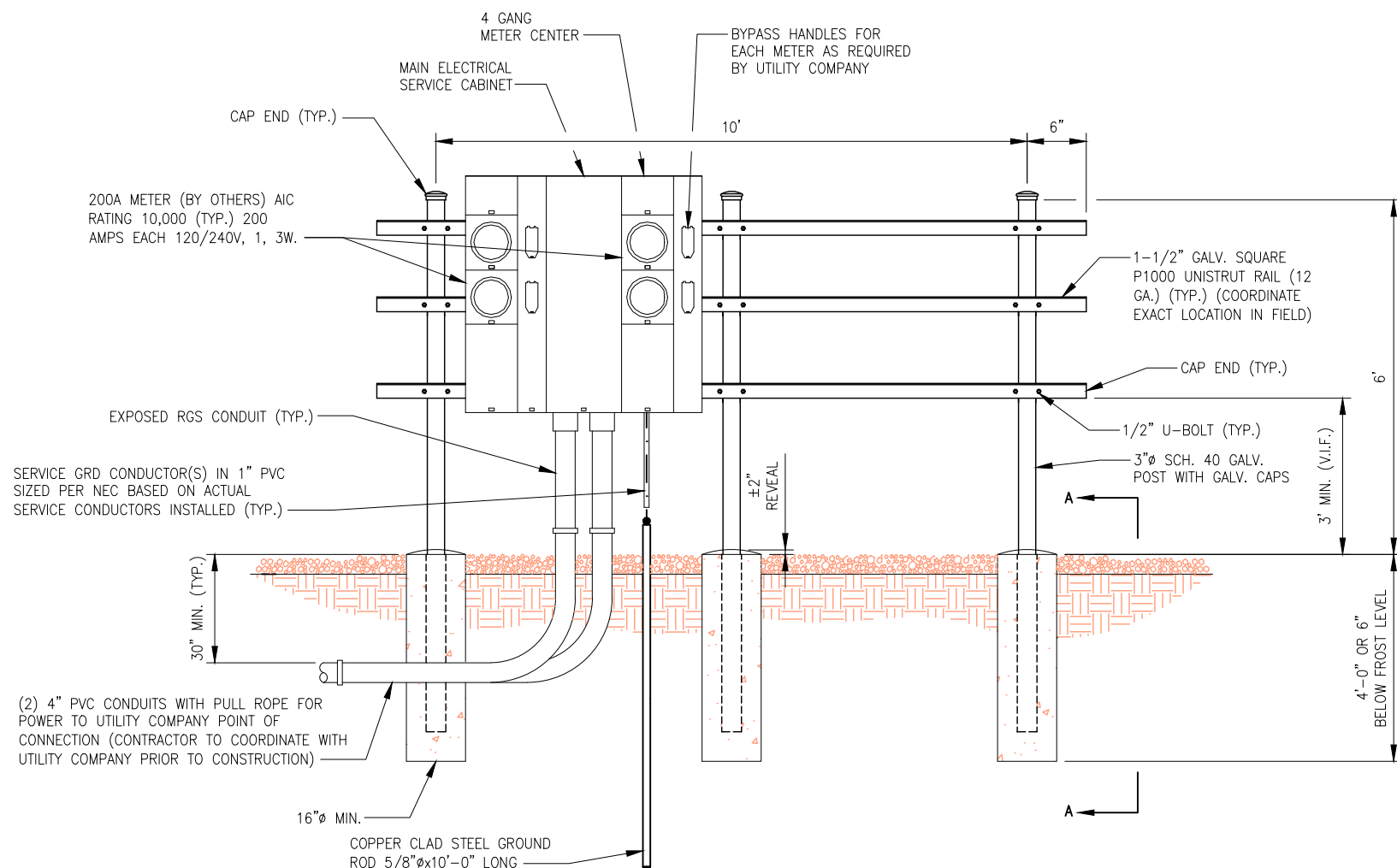
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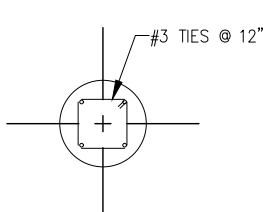
UNDERGROUND CONDUIT STUB-UP

NO SCALE

5



SECTION A-A



SECTION B-B

PLANS PREPARED FOR:

2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:

FROM ZERO TO INFINIGY
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Westminster, CO 80030
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JOB NUMBER 404-052

MLA PARTNER:

750 Park of Commerce Drive
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VERTICAL BRIDGE SITE NAME:
WOODMEN ELEMENTARY

T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:
UTILITY RACK DETAIL

SHEET NUMBER:
E-5

CODED DRAWING NOTES:

- 1 BOND PROPOSED UTILITY RACK & MAIN ELECTRICAL SERVICE CABINET TO COPPER CLAD STEEL GROUND ROD 5/8"Øx10' LONG PER MANUFACTURER'S SPECIFICATIONS WITH #2 AWG SOLID TINNED BCW.
- 2 PROPOSED TOWER GROUND RING (#2 AWG SOLID TINNED BCW)
- 3 BOND PROPOSED TOWER TO PROPOSED TOWER GROUND RING WITH #2 AWG SOLID TINNED BCW PER TOWER OWNER'S SPECIFICATIONS. (TYP. OF (3) PLACES)
- 4 PROPOSED COMPOUND GROUND RING (#2 AWG SOLID TINNED BCW)
- 5 BOND PROPOSED CORNER FENCE POSTS TO PROPOSED COMPOUND GROUND RING WITH #2 AWG SOLID TINNED BCW. (TYP. OF (6) PLACES)
- 6 BOND PROPOSED GATE FENCE POSTS TO PROPOSED COMPOUND GROUND RING WITH #2 AWG SOLID TINNED BCW. (TYP. OF (2) PLACES)
- 7 BOND PROPOSED ACCESS GATE TO PROPOSED GATE FENCE POSTS WITH #2 AWG SOLID TINNED BCW. (TYP. OF (2) PLACES)
- 8 BOND PROPOSED TELCO CABINET TO COPPER CLAD STEEL GROUND ROD 5/8"Øx10' LONG WITH #2 AWG SOLID TINNED BCW.
- 9 BOND PROPOSED TRANSFORMER TO COPPER CLAD STEEL GROUND ROD 5/8"Øx10' LONG WITH #2 AWG SOLID TINNED BCW.
- 10 PROPOSED T-MOBILE BURIED EQUIPMENT GROUND RING (#2 AWG SOLID TINNED BCW.)
- 11 BOND PROPOSED DOGHOUSE TO PROPOSED TOWER GROUND BAR WITH #2 AWG SOLID TINNED BCW.
- 12 BOND PROPOSED TOWER GROUND RING TO PROPOSED TOWER GROUND BAR WITH #2 AWG SOLID TINNED BCW.
- 13 BOND PROPOSED MAIN EQUIPMENT GROUND BAR TO TOWER GROUND BAR WITH #2 AWG SOLID TINNED BCW. (TYP. OF (2) PLACES)

GENERAL GROUNDING NOTES:


1. TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:
 - #2 AWG BARE TINNED SOLID COPPER CONDUCTOR: EXOTHERMIC WELD TO RODS OR GROUND RING
 - LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
2. ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
3. OWNER'S REPRESENTATIVE WILL INSPECT EXOTHERMIC WELD AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
4. CONTRACTOR TO INSTALL GROUNDING IN CLOSE PROXIMITY TO EQUIPMENT PLATFORM OR PAD.
5. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
6. ALL CADWELDS TO BURIED GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH SHALL BE THE TEE TYPE.
7. BOND SERVICE CONDUITS TO GROUND RING AS THEY CROSS. DO NOT EXOTHERMICALLY WELD TO CONDUITS.
8. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
9. THE MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 10'-0" (MAX. 15'-0").
10. BOND CIGBE TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 AWG BARE, TINNED, SOLID COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD.
11. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND.
12. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.

PLANS PREPARED FOR:



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10-12-17

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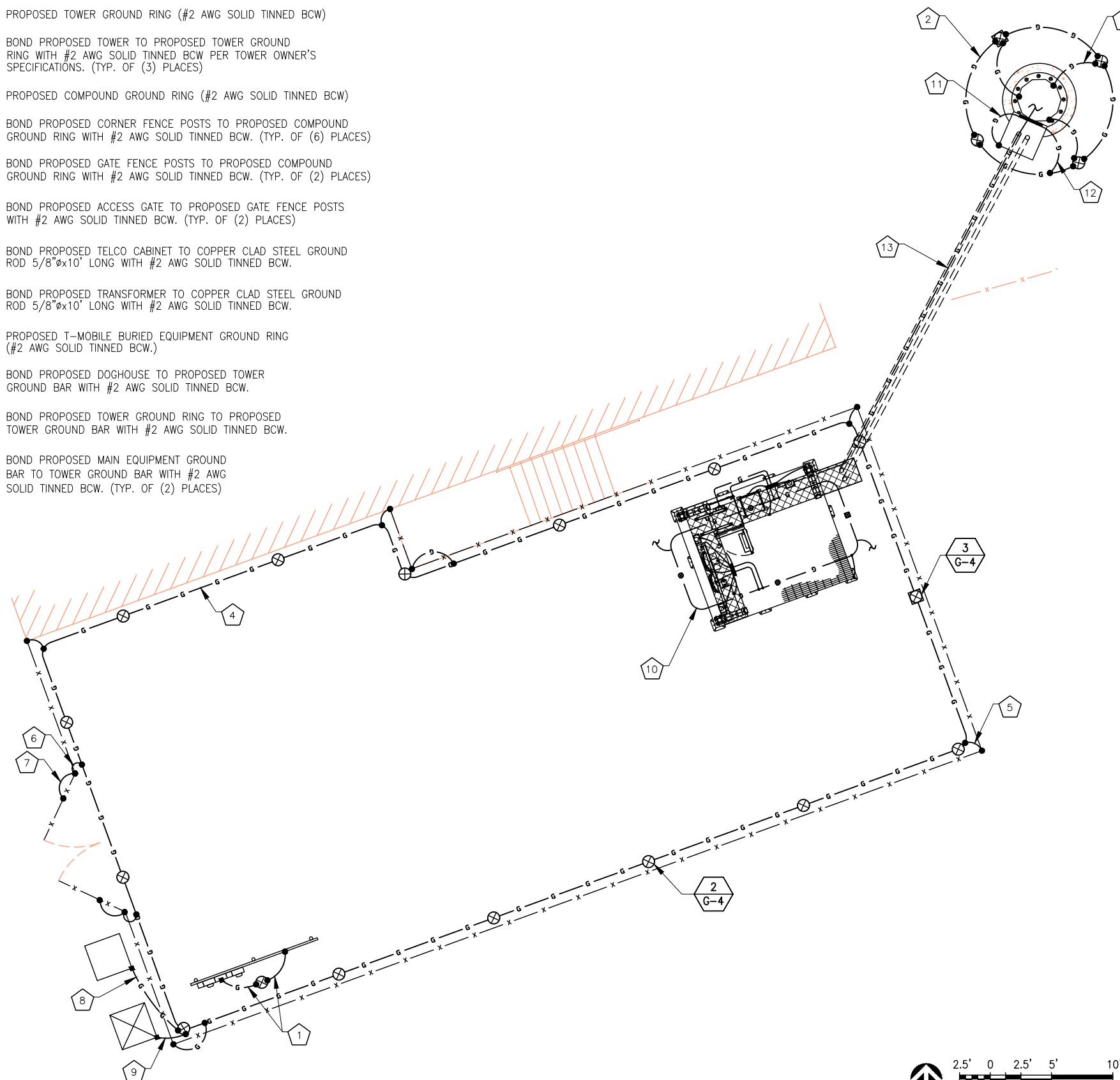
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VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
**12119 McCLURE ROAD
FALCON, CO 80831**

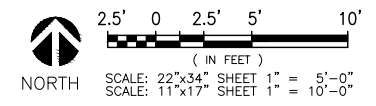
SHEET DESCRIPTION:
**GROUNDING PLANS
COMPOUND**

SHEET NUMBER:
G-1



GROUNDING SYMBOLS:

- ⊗ GROUND ROD
- ACCESS WELL
- ⊗ GROUND ROD WITH ACCESS
- COMPRESSION TYPE CONNECTION
- EXOTHERMIC WELD TYPE CONNECTION
- G — #2 BTS COPPER CONDUCTOR BURIED GROUND CABLE
- # INDICATES CODED NOTE

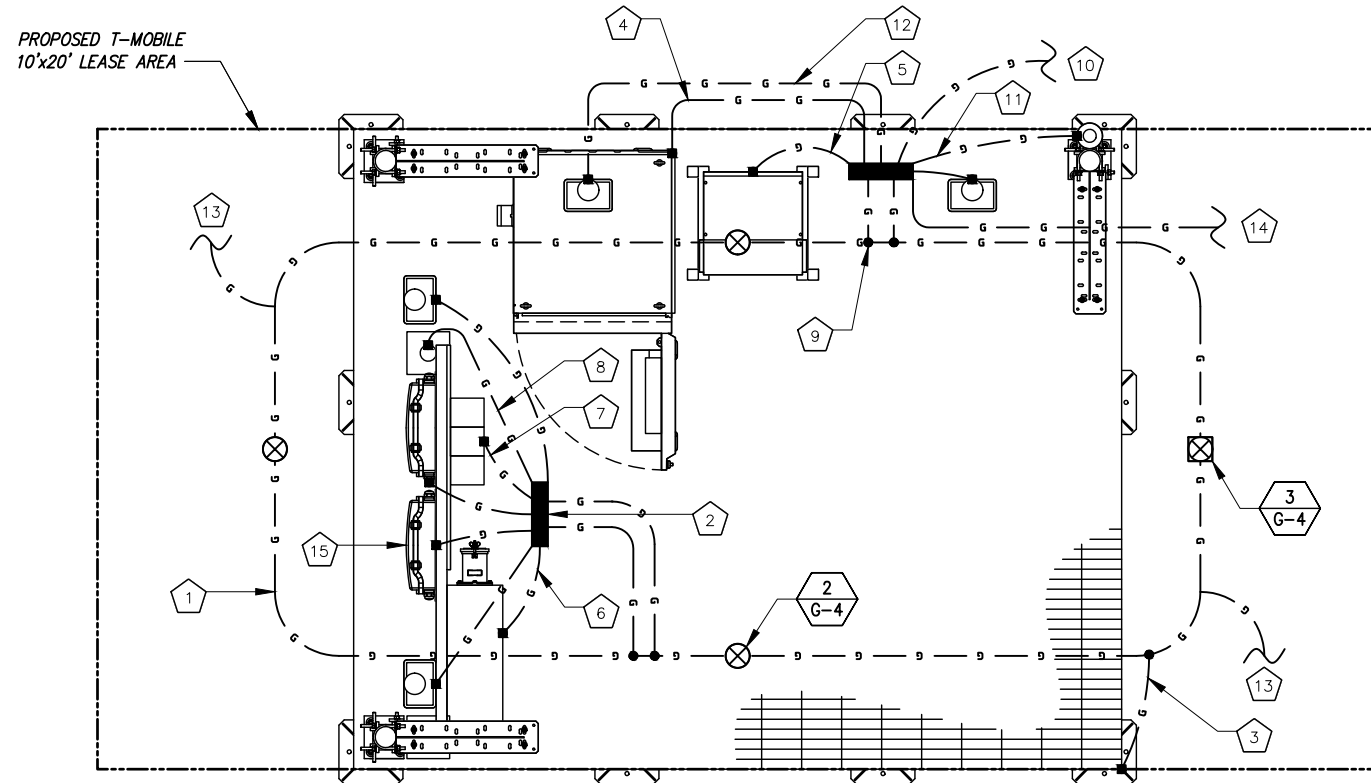
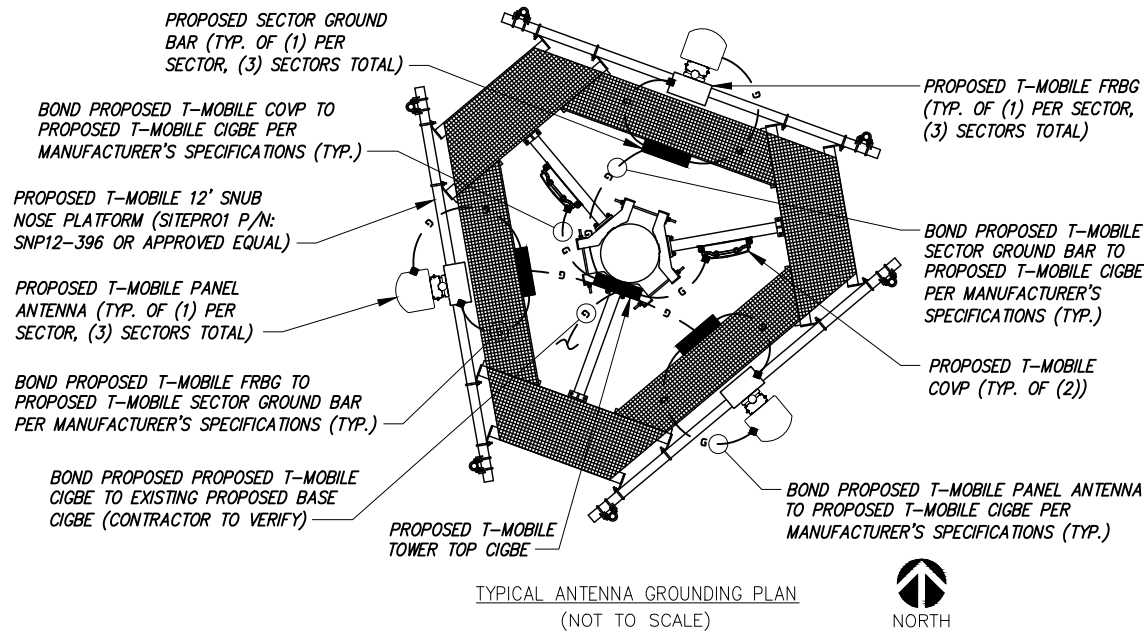


CODED DRAWING NOTES:

- 1 PROPOSED T-MOBILE BURIED EQUIPMENT GROUND RING (#2 AWG SOLID TINNED BCW) (BELOW PLATFORM)
- 2 PROPOSED EQUIPMENT GROUND BAR NEAR PROPOSED T-MOBILE EQUIPMENT (TYP. OF (2))
- 3 PROPOSED T-MOBILE STEEL EQUIPMENT PLATFORM TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- 4 PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- 5 PROPOSED T-MOBILE STACKED SLEEVE TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- 6 PROPOSED T-MOBILE PPC CABINET TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- 7 PROPOSED T-MOBILE CIENA ENCLOSURE TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- 8 BOND PROPOSED T-MOBILE H-FRAME TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- 9 BOND PROPOSED EQUIPMENT GROUND BAR TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- 10 BOND PROPOSED ICE BRIDGE TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- 11 BOND PROPOSED T-MOBILE GPS UNIT TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- 12 PROPOSED T-MOBILE 500 WATT LITHONIA QUARTZ FLOODLIGHT (OR APPROVED EQUAL) TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- 13 BOND PROPOSED T-MOBILE BURIED EQUIPMENT GROUND RING TO PROPOSED BURIED COMPOUND GROUND RING WITH #2 AWG SOLID TINNED BCW. (TYP. OF (2) PLACES) (CONTRACTOR TO VERIFY)
- 14 BOND PROPOSED T-MOBILE TOWER BASE CIGBE TO PROPOSED EQUIPMENT GROUND BAR WITH #2 AWG SOLID TINNED BCW. (CONTRACTOR TO VERIFY)
- 15 PROPOSED T-MOBILE COVP TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)

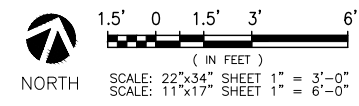
GROUNDING SYMBOLS:

⊗	GROUND ROD
⊠	ACCESS WELL
⊗	GROUND ROD WITH ACCESS
■	COMPRESSION TYPE CONNECTION
●	EXOTHERMIC WELD TYPE CONNECTION
—G—	#2 BTS COPPER CONDUCTOR BURIED GROUND CABLE
#	INDICATES CODED NOTE



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GROUNDING PLANS

SCALE: AS NOTED 1

PLANS PREPARED FOR:

2323 Delegany Street
Denver, CO 80216

PLANS PREPARED BY:

FROM ZERO TO INFINIGY
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Westminster, CO 80030
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER 404-052

MLA PARTNER:

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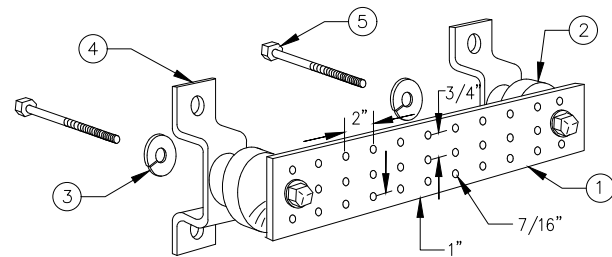
T-MOBILE SITE #:
DN04333A

VERTICAL BRIDGE SITE #:
US-CO-5052

SITE ADDRESS:
**12119 McCLURE ROAD
FALCON, CO 80831**

SHEET DESCRIPTION:
GROUNDING PLANS

SHEET NUMBER:
G-2



LEGEND

1. TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO., HARGER TGB114420M, OR EQUIVALENT. HOLE CENTERS TO MATCH
2. NEMA DOUBLE LUG CONFIGURATION.
3. INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 3061-4 OR HARGER EQUIVALENT.
4. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT.
5. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR HARGER EQUIVALENT.
6. 5/8-11"x1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR HARGER EQUIVALENT.

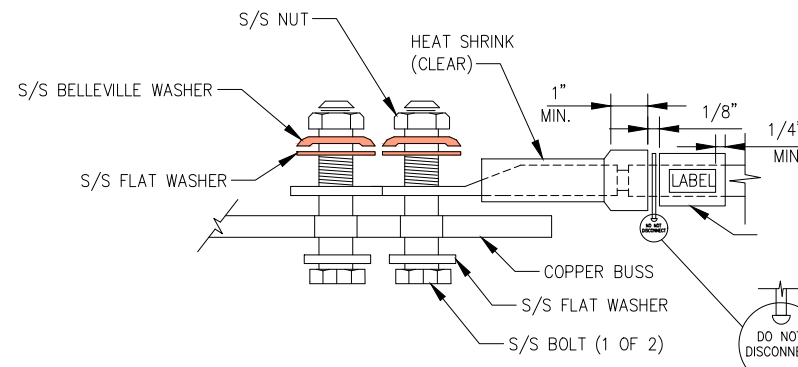
NOTES:

1. ALL MOUNTING HARDWARE CAN ALSO BE USED ON 6", 12", 18", ETC. GROUND BARS.
2. ENTIRE ASSEMBLY AVAILABLE FROM NEWTON INSTRUMENT CO. CAT. NO. 2106060010 OR AS HARGER TGB114420M.

TYPICAL GROUND BAR

NO SCALE

1



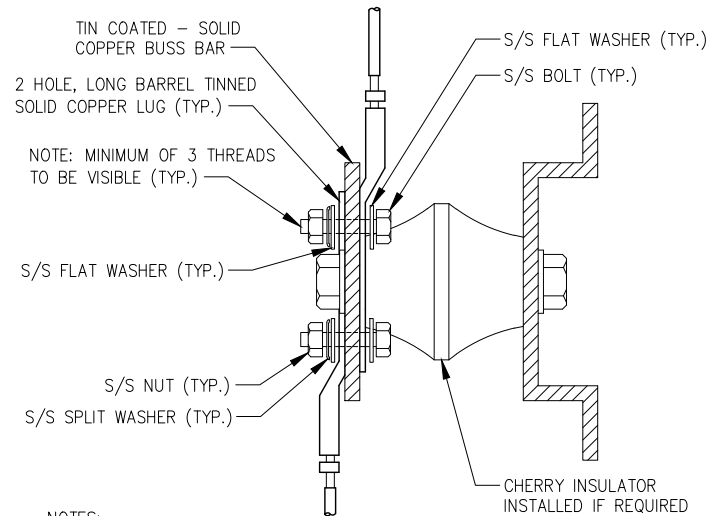
NOTE:
ALL MECHANICAL EXTERNAL TERMINATION SURFACES SHALL BE TREATED WITH T&B KOPR-SHIELD CP8 ANTI-OXIDATION COMPOUND.

"DO NOT DISCONNECT" TAG ON ALL GROUND BAR INTERCONNECTS

TYPICAL EQUIPMENT GROUND CONNECTION

NO SCALE

2



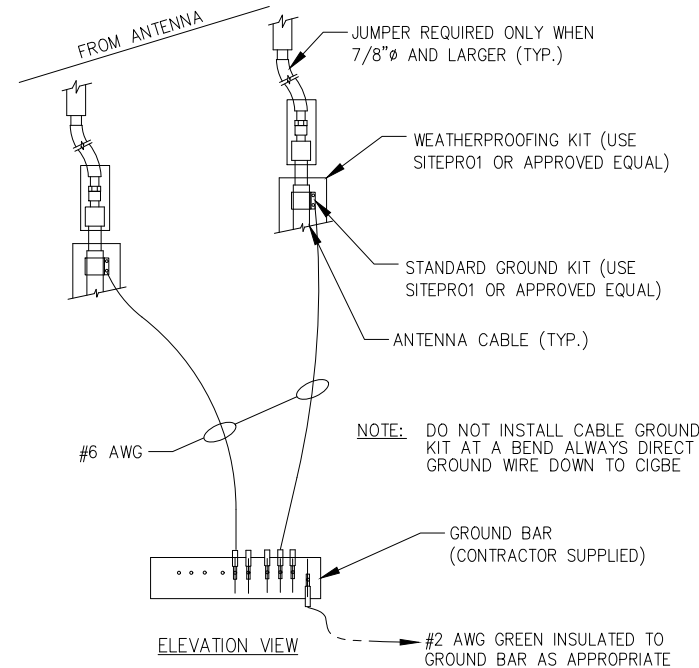
NOTES:

1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
2. COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

TYPICAL GROUND LUG

NO SCALE

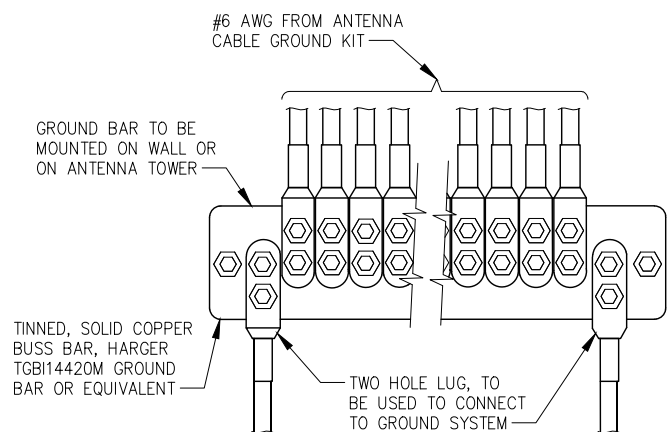
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TYPICAL CONNECTION OF GROUND WIRES TO GROUNDING BARS @ ANTENNAS

NO SCALE

4



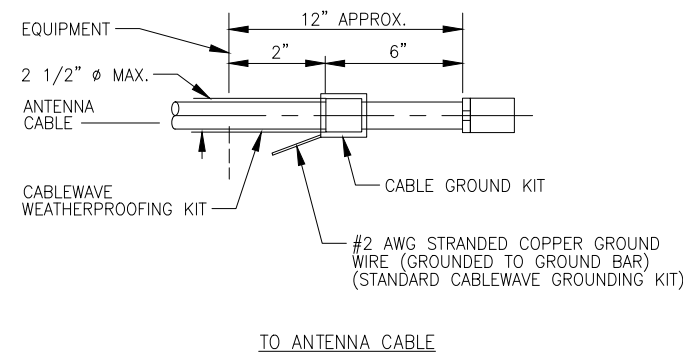
NOTE:

CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) OR EQUIVALENT ON ALL LUG CONNECTIONS

TYPICAL ANTENNA GROUND BAR

NO SCALE

5



NOTE:

DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

TYPICAL CABLE GROUND KIT CONNECTION

NO SCALE

6

PLANS PREPARED FOR:



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Denver, CO 80216

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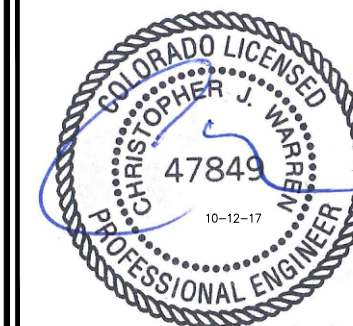
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VERTICAL BRIDGE SITE NAME:

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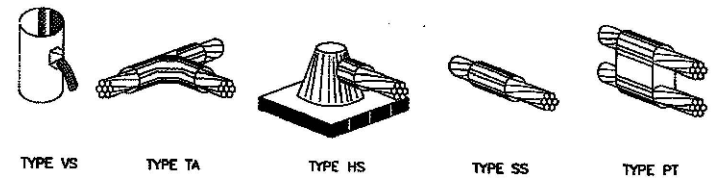
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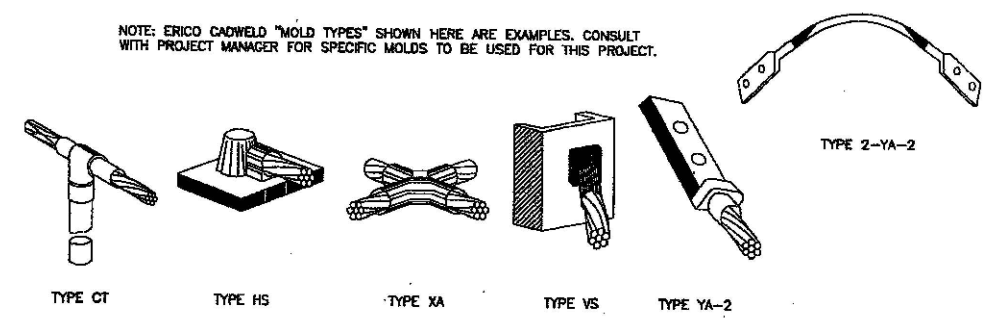
GROUNDING DETAILS

SHEET NUMBER:

G-3

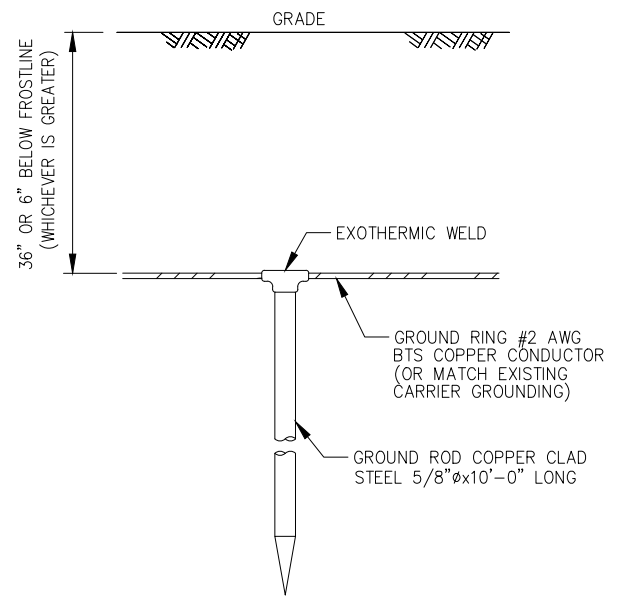


NOTE: ERICO CADWELD "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



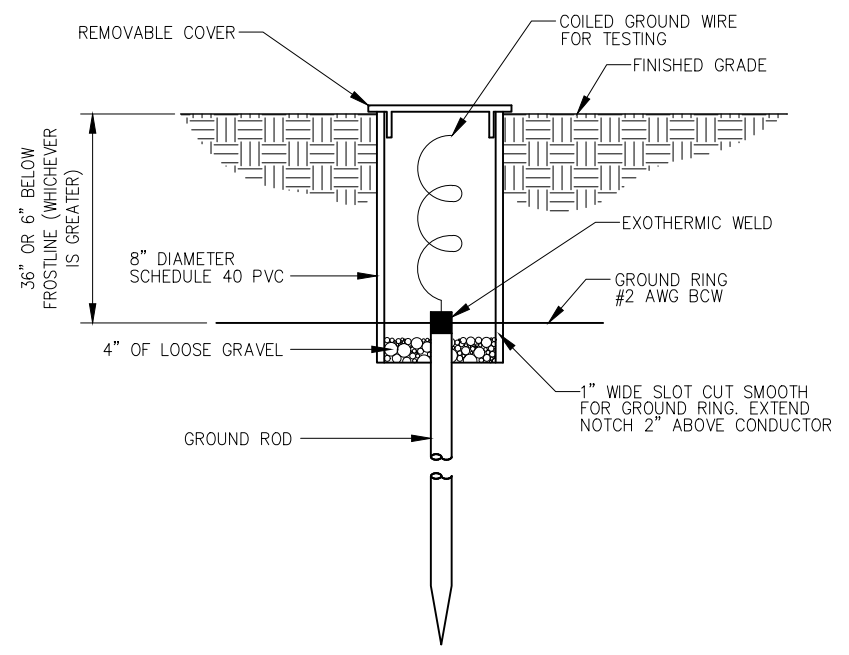
TYPICAL EQUIPMENT GROUND CONNECTIONS

NO SCALE 1



TYPICAL GROUND ROD

NO SCALE 2



TYPICAL INSPECTION SLEEVE

NO SCALE 3

DETAIL NOT USED

NO SCALE 4

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SHEET DESCRIPTION:
GROUNDING DETAILS

SHEET NUMBER:
G-4

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ENGINEERING LICENSE:



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REVISIONS:

DESCRIPTION	DATE	BY	REV
REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

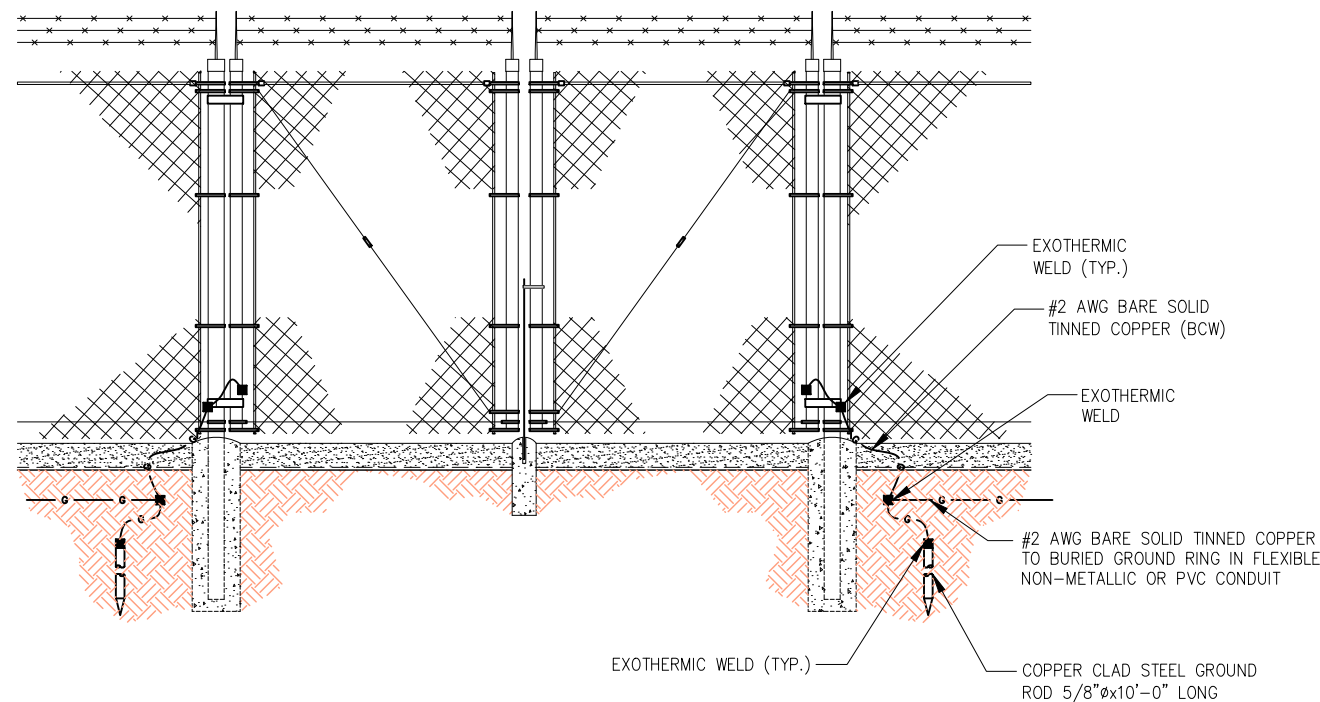
12119 McCLURE ROAD
FALCON, CO 80831

SHEET DESCRIPTION:

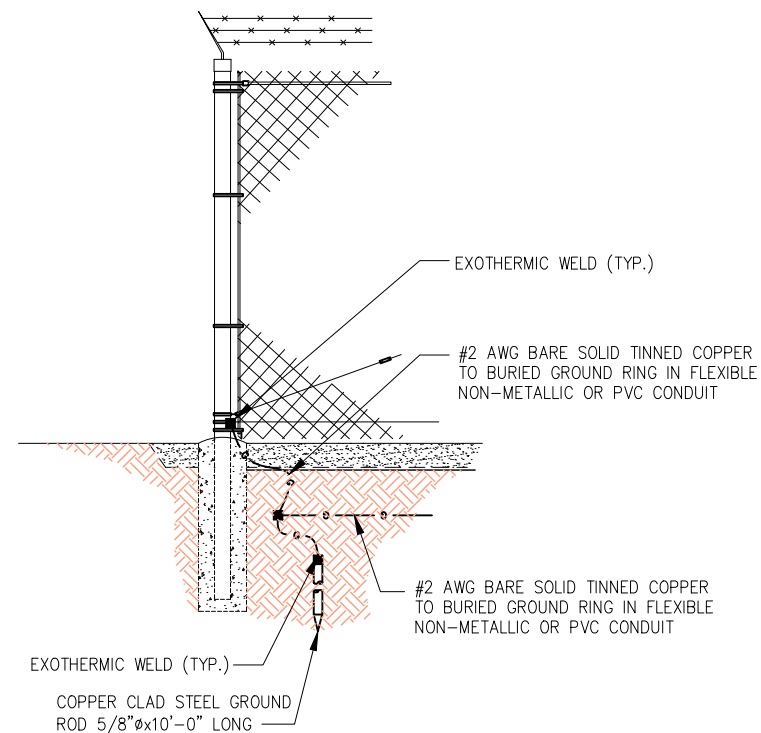
GROUNDING DETAILS

SHEET NUMBER:

G-5



TYPICAL ACCESS GATE GROUNDING DETAIL



TYPICAL FENCE POST GROUNDING DETAIL