



AT&T

SITE NAME: FRISCO MAINTENACE CENTER  
(MBO/SBO)

FA LOCATION CODE: 15395911  
MRUTH: 295379  
ADDRESS: 102 SCHOOL RD  
FRISCO, CO 80443

SITE CONTACT:

JEFF GOBLE (PUBLIC WORKS DIRECTOR)  
719.839.1236  
JEFFG.TOWNOFFRISCO.COM  
  
JOSEPH GAJEWSKI (INFORMATION TECH.)  
970.401.0678  
ITSUPPORT@TOWNOFFRISCO.COM

PROJECT DESCRIPTION:

INSTALLATION OF NEW AT&T MBO/SBO  
SMALL CELL RADIOS AND ANTENNAS.  
SYSTEM CONSISTS OF (2) FACADE MOUNTED  
ANTENNAS ON EXISTING BUILDING  
STRUCTURE.

SITE ACCESS:

MUST HAVE SCHEDULED  
APPOINTED FOR ACCESS.

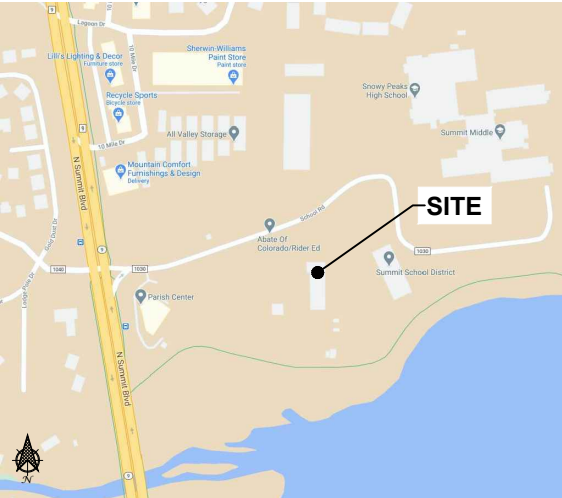
PROJECT DATA:

JURISDICTION: TOWN OF FRISCO  
PROPERTY OWNER: TOWN OF FRISCO  
102 SCHOOL RD  
FRISCO, CO 80443  
  
PARCEL NUMBER: 2097-2640-00-002  
ZONING: PF  
LEGAL DESCRIPTION: TR 5-78 SEC 26 QTR 4  
ACRES: 4.9300  
  
OCCUPANCY TYPE: R2 & U  
CONSTRUCTION TYPE: A-1  
NUMBER OF STORIES: 2  
FULLY SPRINKLERED: YES  
GOVERNING CODES: 2018 I-CODES 2017 NEC

SITE PHOTO:



SITE MAP:



PROJECT TEAM:

CONSTRUCTION MANAGER:	RF MANAGER:	RF MANAGER:	DIRECTOR - EXTERNAL AFFAIRS:	CO CLIENT SOLUTIONS EXEC.:	A&E MANAGER:
QUIN GELFAND AT&T WIRELESS 214.208.5407 QG112C@ATT.COM	ERIC TUSSEY AT&T WIRELESS 720.232.1127 ERIC.TUSSEY@ATT.COM	SCOTT NOBLES AT&T WIRELESS 303.638.4994 CN5416@ATT.COM	GUILLERMO J LAMBARRI AT&T WIRELESS 713.213.4043 GL7193@ATT.COM	RORY MCCABE AT&T WIRELESS 720.485.7693 RORY.J.MCCABE@ATT.COM	STEPHEN LESTER MOUNTAIN WIRELESS 303.589.8899 SLESTER@MTWIRE.COM

SHEET LIST:

T1	TITLE SHEET
Z1.0	AT&T SITES SUMMIT COUNTY
Z1.1	OVERALL SITE PLAN
Z1.2	DETAILED SITE PLAN
Z1.3	COVERAGE OBJECTIVE
Z1.4	ROOF & ANTENNA PLAN
Z2.1	SOUTH ELEVATION
Z2.2	EAST & WEST ELEVATIONS
Z3.1	ANTENNA DETAILS



**MOUNTAIN  
WIRELESS**  
927 SALIDA WAY  
AURORA, CO 80011  
303.343.6544

ZONING  
NOT FOR  
CONSTRUCTION



161 INVERNESS DRIVE WEST  
ENGLEWOOD, CO 80112

SITE NAME:  
FRISCO MAINTENACE  
CENTER  
(MBO/SBO)

SITE ADDRESS:  
102 SCHOOL RD  
FRISCO, CO 80443

PROJECT:  
MBO

PHASE:  
ZONING  
ISSUE DATE:  
10/19/2020

TITLE  
SHEET

T1



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AT&T SITES  
(TOWN OF FRISCO)

Z1.0

SCALE SET FOR 24"x36" SHEET  
USE 1/2 SCALE FOR 11"x17" SHEET



- MAP KEY:
- NEW AT&T SITE
  - EX. AT&T SITE
  - FUTURE AT&T SMALL CELL



1

AT&T SITES (TOWN OF FRISCO)

SCALE:



NOTE:  
PROPERTY BOUNDARY LINES,  
& INFORMATION TAKEN FROM TOWN OF FRISCO ASSESSORS WEBSITE  
(<https://www.frisco.gov/departments/community-development/planning-division/zoning-maps/>)



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OVERALL SITE  
PLAN


Z1.1

SCALE SET FOR 24"x36" SHEET  
USE 1/2 SCALE FOR 11"x17" SHEET

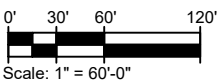


SET BACKS FROM BUILDING (NO CHANGE)  
NORTH: 100'-11"  
EAST: 55'-2"  
SOUTH: 286'-1"  
WEST: 218'-3"

LINE TYPE LEGEND:  
— PARENT PARCEL BOUNDARY LINE  
--- ADJACENT PARCEL BOUNDARIES

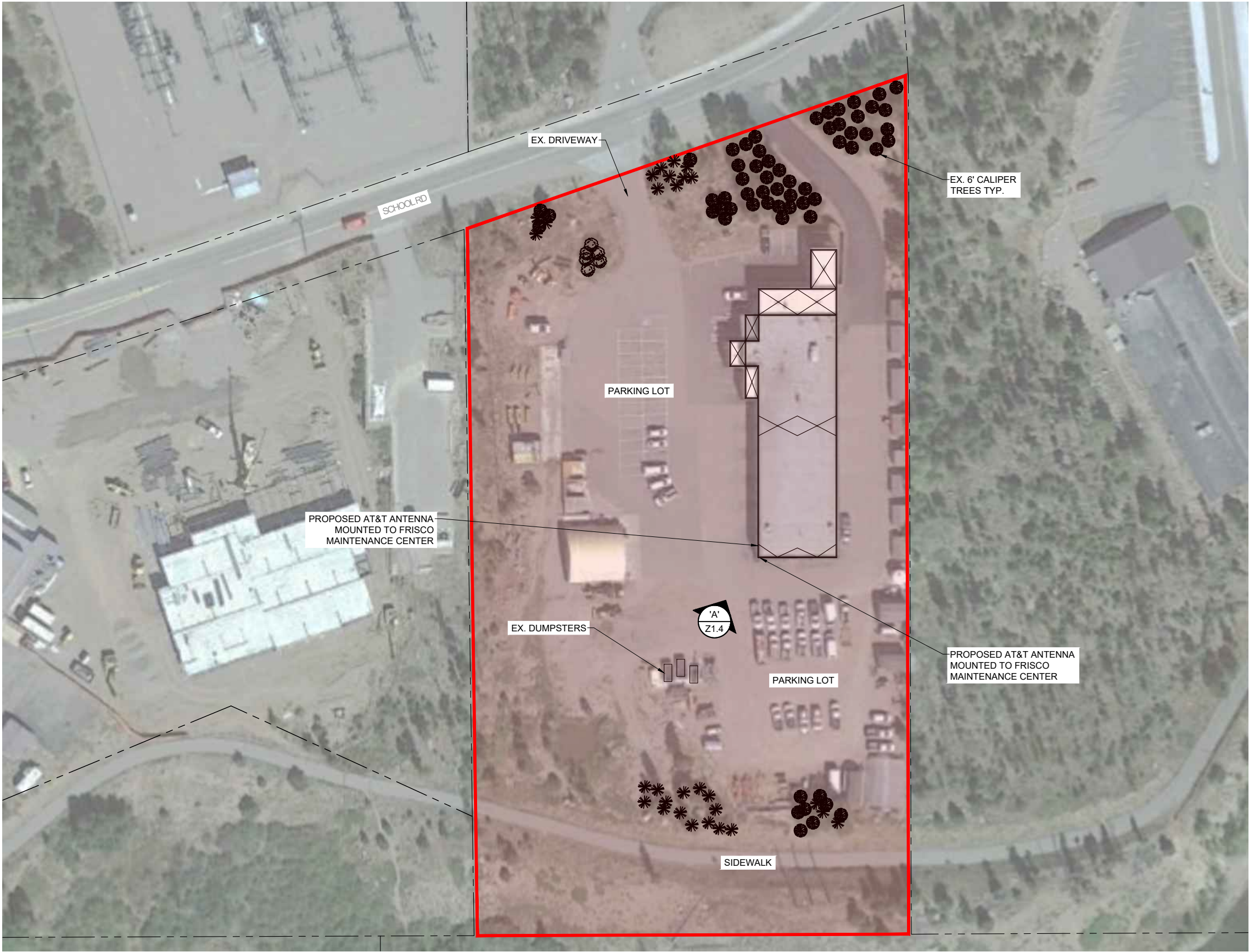


1  
SCALE: 1" = 60'-0"



Scale: 1" = 60'-0"





NOTE:  
EXISTING SNOW STORAGE IS NOT  
IMPACTED, NO ADDITIONAL SNOW  
STORAGE PROVIDED

  
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DETAILED SITE  
PLAN

**Z1.2**

**LINE TYPE LEGEND:**  
— PARENT PARCEL BOUNDARY LINE  
--- ADJACENT PARCEL BOUNDARIES

SCALE SET FOR 24"x36" SHEET  
USE 1/2 SCALE FOR 11"x17" SHEET



**1** DETAILED SITE PLAN  
SCALE: 1" = 40'-0"  
0' 20' 40' 80'  
Scale: 1" = 40'-0"



ZONING  
NOT FOR  
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COVERAGE  
OBJECTIVE

Z1.3



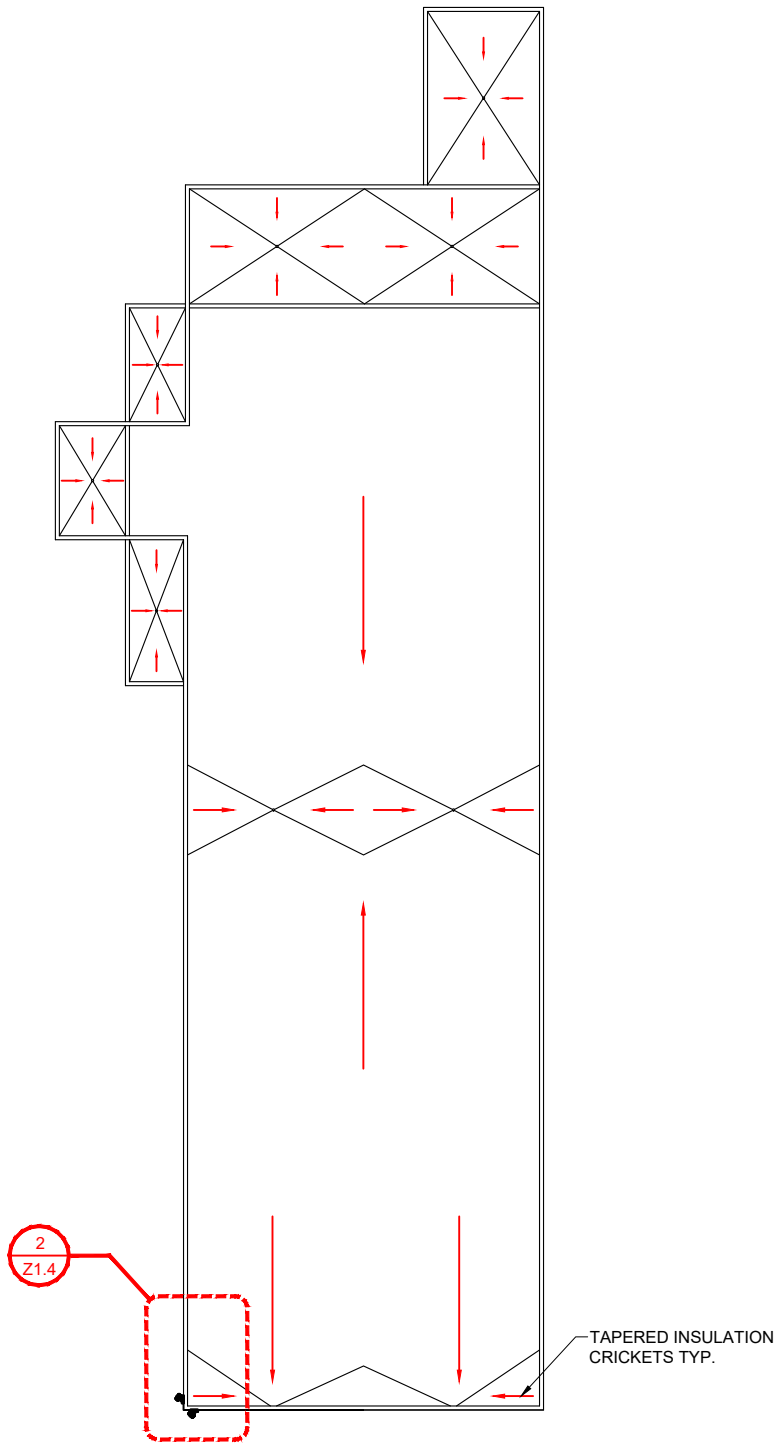
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PROPOSED AT&T COVERAGE OBJECTIVES

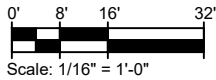
SCALE:



NOTE:  
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STORAGE PROVIDED



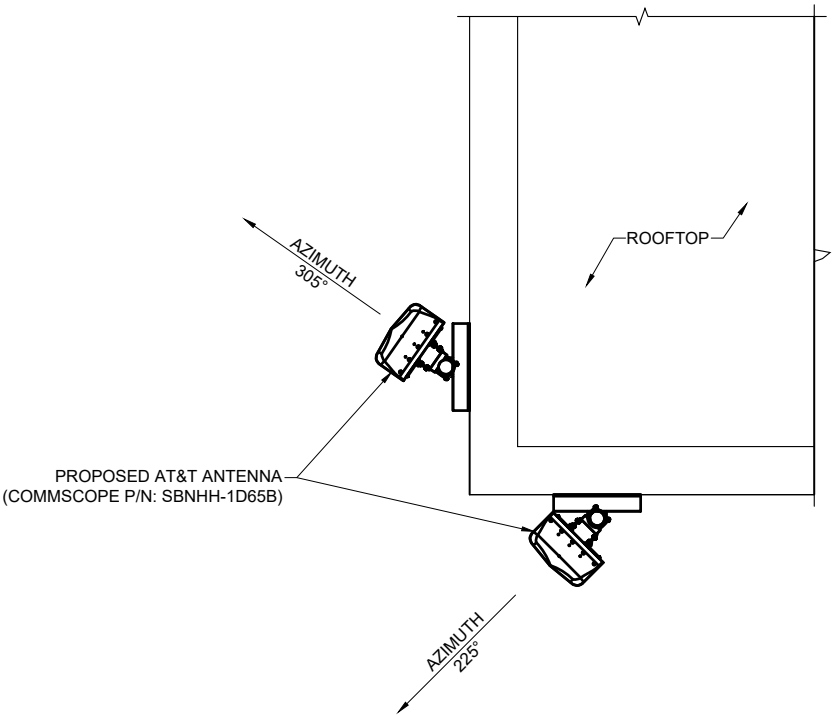
**1** ROOF PLAN  
SCALE: 1/16" = 1'-0"



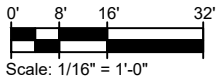
Scale: 1/16" = 1'-0"



**'A'**  
PROPOSED AT&T ANTENNAS  
(LOCATED ON SOUTHWEST CORNER OF BUILDING)



**2** ANTENNA PLAN  
SCALE: 3/4" = 1'-0"



Scale: 1/16" = 1'-0"



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ROOF & ANTENNA  
PLAN

**Z1.4**

SCALE SET FOR 24"x36" SHEET  
USE 1/2 SCALE FOR 11"x17" SHEET

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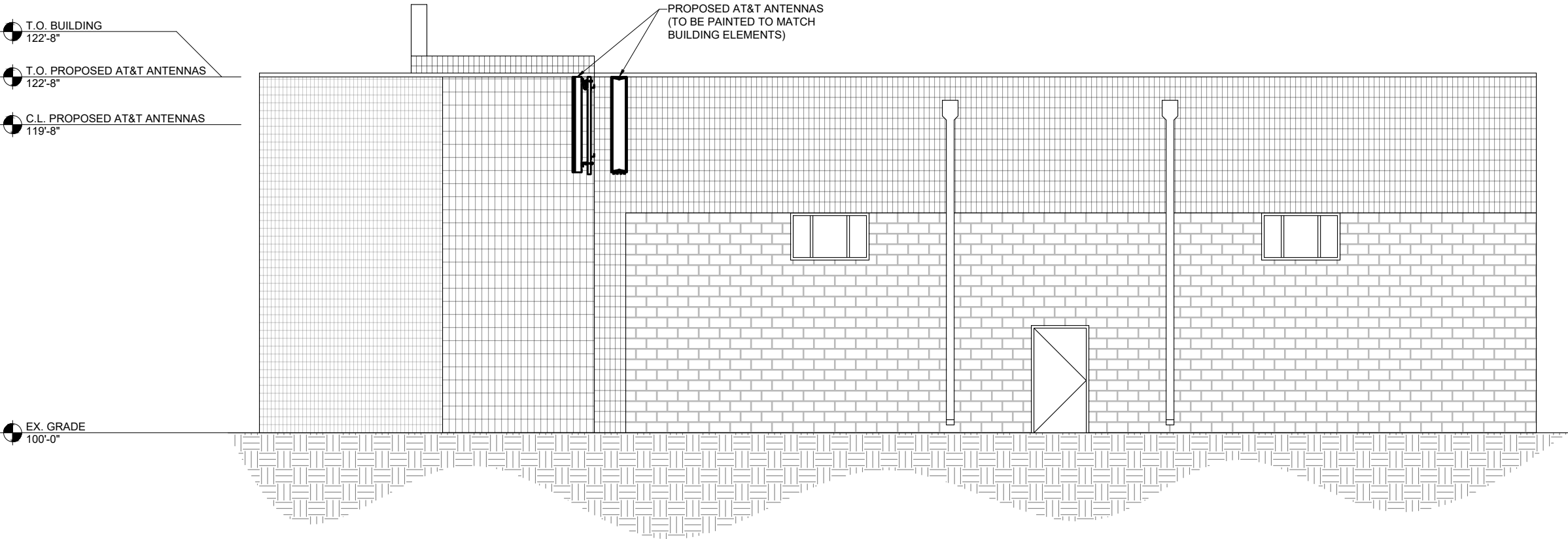
PHASE:  
ZONING

ISSUE DATE:  
10/19/2020

SOUTH  
ELEVATION

Z2.1

SCALE SET FOR 24"x36" SHEET  
USE 1/2 SCALE FOR 11"x17" SHEET

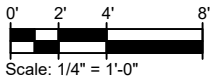


1

**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"

0'2'4'8'

Scale: 1/4" = 1'-0"



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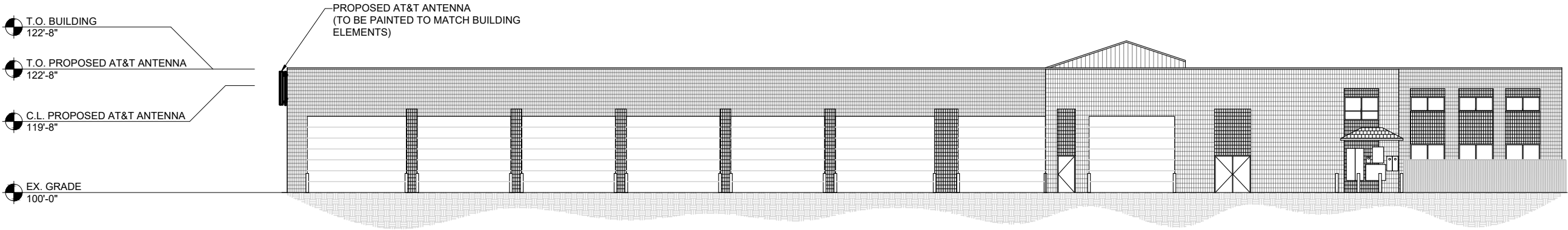
PROJECT:  
MBO

PHASE:  
ZONING

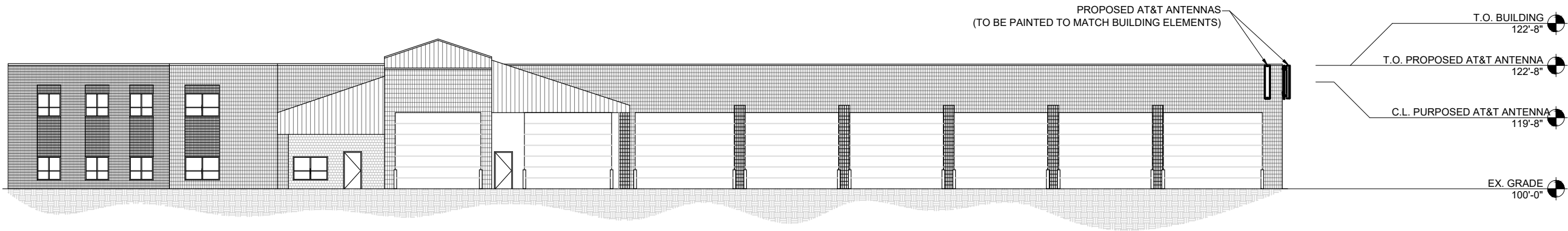
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EAST & WEST  
ELEVATIONS

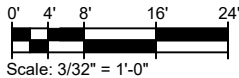
**Z2.2**



**1 EAST ELEVATION**  
SCALE: 3/32" = 1'-0"



**2 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"





SBNHH-1D65B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Effective Projective Area (EPA), frontal	0.27 m²   2.906 ft²
Effective Projective Area (EPA), lateral	0.22 m²   2.368 ft²
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum   Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	1 female   1 male

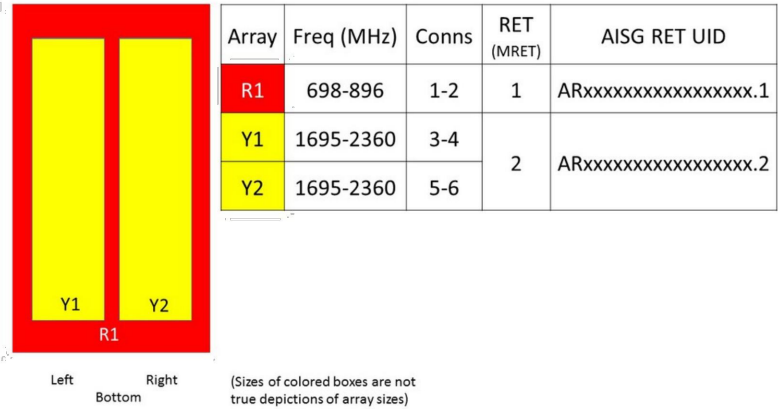
Dimensions

Width	301 mm   11.85 in
Length	1851 mm   72.874 in

SBNHH-1D65B

Depth	180 mm   7.087 in
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Array Layout



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz   698 – 896 MHz
Polarization	±45°

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Multi-RET)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal RET	High band (1)   Low band (1)

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	14.7	17.7	18.2	18.6	18.6
Beamwidth, Horizontal, degrees	68	65.5	69	66.2	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5	4.5
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7