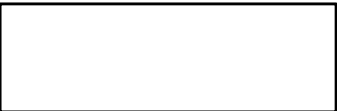




TRINITY BAPTIST CHURCH

15555 E QUINCY AVE
AURORA, CO 80015

ZONING DRAWINGS



CP PROJECT NO.: SN-18-0093-3

PRELIMINARY			
NO.	DATE	D/C	DESCRIPTION
0	10-03-18	VP/AS	90% ZD REVIEW
1	10-17-18	AS	CLIENT COMMENT

SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION

SITE NAME:

TRINITY BAPTIST CHURCH

SITE ADDRESS:

15555 E QUINCY AVE
AURORA, CO 80015

SHEET TITLE

TITLE SHEET

SHEET NO.

T1.0

PROJECT SUMMARY

- THIS PROJECT INCLUDES THE FOLLOWING SCOPE OF WORK:
1. PROPOSED CONSTRUCTION OF A NEW TELECOMMUNICATIONS FACILITY.
 2. PROPOSED INSTALLATION OF SIX (6) PANEL ANTENNAS W/ RET EQUIPMENT AS REQUIRED, SIX (6) REMOTE RADIO UNITS (RRU'S), AND FOUR (4) HYBRID CABLES ON AN PROPOSED 50'-0" CROSS AND ONE (1) GPS ANTENNA TO BE MOUNTED ON CABLE BRIDGE POST.
 3. PROPOSED SPRINT OUTDOOR EQUIPMENT ON A (N) 8'-0" X 10'-0" CONCRETE PAD WITHIN A 10'-0" X 15'-0" FENCED LEASE AREA.
 4. PROPOSED INSTALLATION OF 200A ELECTRICAL AND FIBER SERVICE FOR SPRINT EQUIPMENT.

GOVERNING CODES

- GOVERNING CODES, AS APPLICABLE:
- IBC-2015, INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS
 - IRC-2015, INTERNATIONAL RESIDENTIAL CODE
 - IEBC-2015, INTERNATIONAL EXISTING BUILDING CODE
 - IFC-2015, INTERNATIONAL FIRE CODE
 - IEBC-2015, INTERNATIONAL FUEL GAS CODE
 - NEC-2017, NATIONAL ELECTRICAL CODE
 - IMC-2015, INTERNATIONAL MECHANICAL CODE
 - IECC-2015, INTERNATIONAL ENERGY CONSERVATION CODE

A.D.A. COMPLIANCE:
INSTALLATION IS UNMANNED AND NOT FOR HUMAN HABITATION.
HANDICAP ACCESS IS NOT REQUIRED PER A.D.A. AND IBC 1103.2.9.

DESIGN WIND SPEED:
90 MPH - 3 SECOND GUST

Basic Wind Speed - Vult 115 mph Risk Category II, 120 mph Risk Category III-IV, 105 mph Risk Category I (3-second gust all

SIGN OFF OF FINAL ZONING DRAWINGS		
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED. ACKNOWLEDGEMENT OR "SIGN-OFF" BY PARTIES TO THE CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE ALTERATION OF THE LEASE TERMS.		
CONSULTANT	SIGNATURE	DATE
OWNER		
SITE ACQUISITION		
PERMITTING CONSULTANT		
RF ENGINEER		
CONSTRUCTION MANAGER		
OPS MANAGER		
PROJECT MANAGER		
REGULATORY REV.		
DEV. MANAGER		

SITE INFORMATION

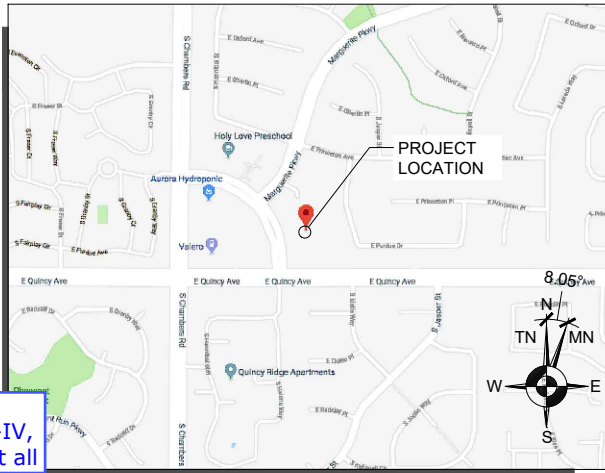
SITE NAME: TRINITY BAPTIST CHURCH
SITE ADDRESS: 15555 E QUINCY AVE
AURORA, CO 80015

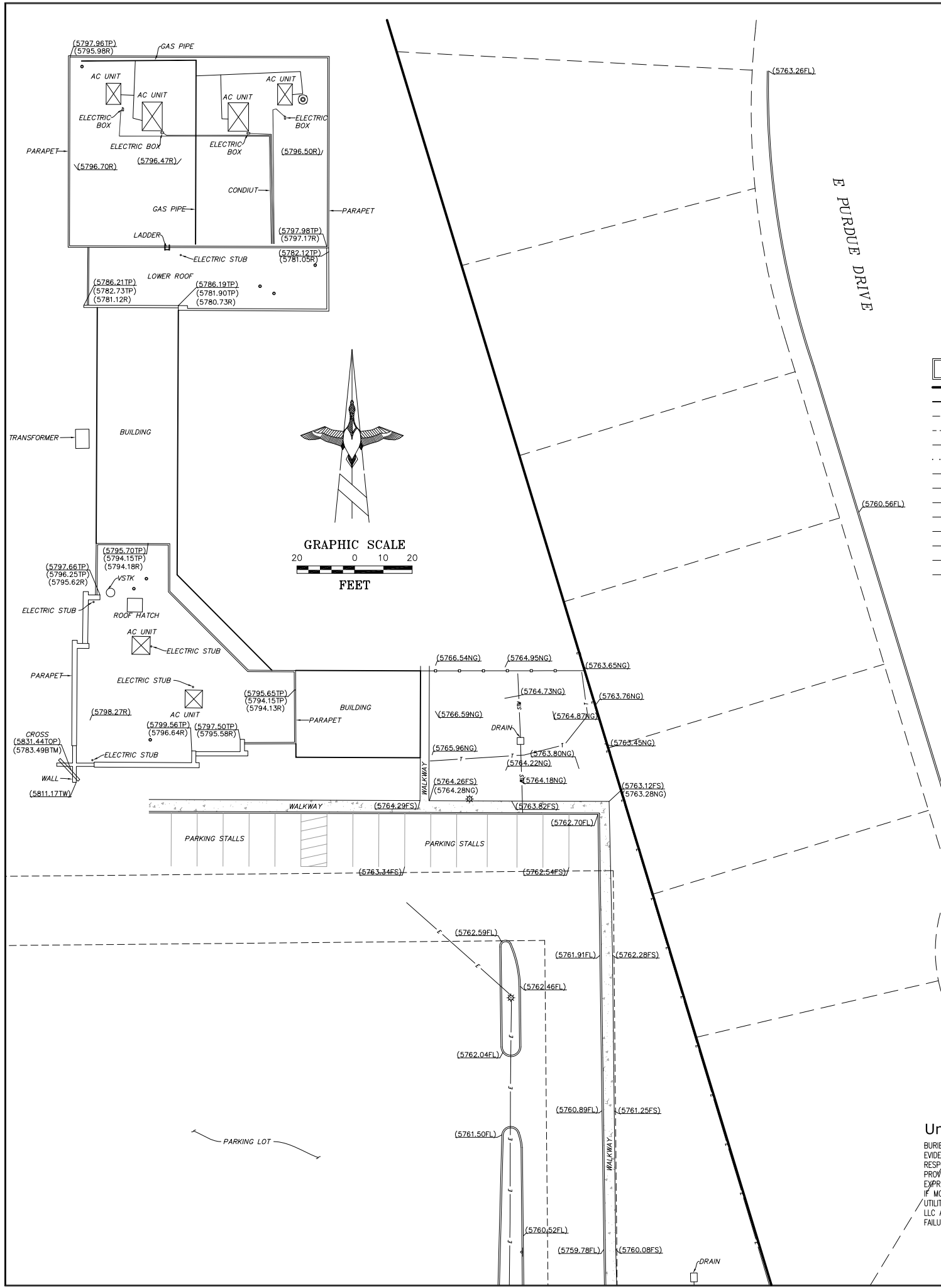
TOWER LATITUDE: 39° 38' 21.4" N (39.639275° N)
TOWER LONGITUDE: 104° 48' 26.8" W (-104.807441° W)
SOURCE: SURVEY

PARCEL NUMBER: 273-05-3-08-015
ZONING CLASSIFICATION: PCZD
JURISDICTION: CITY OF AURORA
TOP OF (E) STRUCTURE: 50' AGL

OCCUPANCY GROUP: U (SHELTER)
CONSTRUCTION TYPE: V-B (SHELTER)
FULLY SPRINKLERED: NO (SHELTER)
NO. OF STORIES: ONE (SHELTER)

PROJECT VICINITY MAP





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



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

Title Report

PREPARED BY: FIRST AMERICAN TITLE INSURANCE COMPANY
ORDER NO.: 5509-3055690
EFFECTIVE DATE: APRIL 26, 2018

Legal Description

SEE SHEET LS2

Assessor's Parcel No.

2073-05-3-08-015

Title Schedule B Exceptions

SEE SHEET LS2

Lease Area/Access & Utility Easements

TO BE DETERMINED

Geographic Coordinates as Shown

1983 DATUM: LATITUDE XX'XX'XX.XX"N LONGITUDE XXX'XX'XX.XX"W

Date of Survey

MAY 24, 2018

Basis of Bearings

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

Bench Mark

GPS OBSERVATION UTILIZING NGS CORS STATIONS PROCESSED UTILIZING THE OPUS UTILITY (NAVD 88) DATUM

Legend

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

Certificate of Survey

THIS IS TO CERTIFY THAT THIS TOPOGRAPHIC MAP AND IMPROVEMENTS SHOWN ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JESUS A. LUGO, PLS 38081

THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
REFERENCE IS MADE TO A COMMITMENT FOR TITLE INSURANCE, NUMBER 5509-3055690, ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, AND HAVING AN EFFECTIVE DATE OF APRIL 26, 2018. THIS SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. THE LESSOR'S LEGAL DESCRIPTION AND RECORD BOUNDARY ARE SHOWN HEREON FOR REFERENCE ONLY.
THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE LESSOR'S PROPERTY.



PROJECT INFORMATION:

DN90XCD18

15555 E. QUINCY AVE.
AURORA, CO. 80015
COUNTY OF ARAPAHOE

CURRENT ISSUE DATE:

5/29/18

ISSUED FOR:

DESIGN

REV.: DATE: ISSUED FOR: BY:

0	5/29/18	SUBMITTAL	JT

PLANS PREPARED FOR:



CONSULTANT:



6950 S. Tucson Way, Unit C
Centennial, CO 80112
Phone: (720) 488-1303
Fax: (720) 488-1306

JOB NO. 18116

DRAWN BY: CHK.: APV.:

JT JAL JAL

LICENSURE:

SHEET TITLE:

TOPOGRAPHIC
SURVEY

SHEET NUMBER: REVISION:

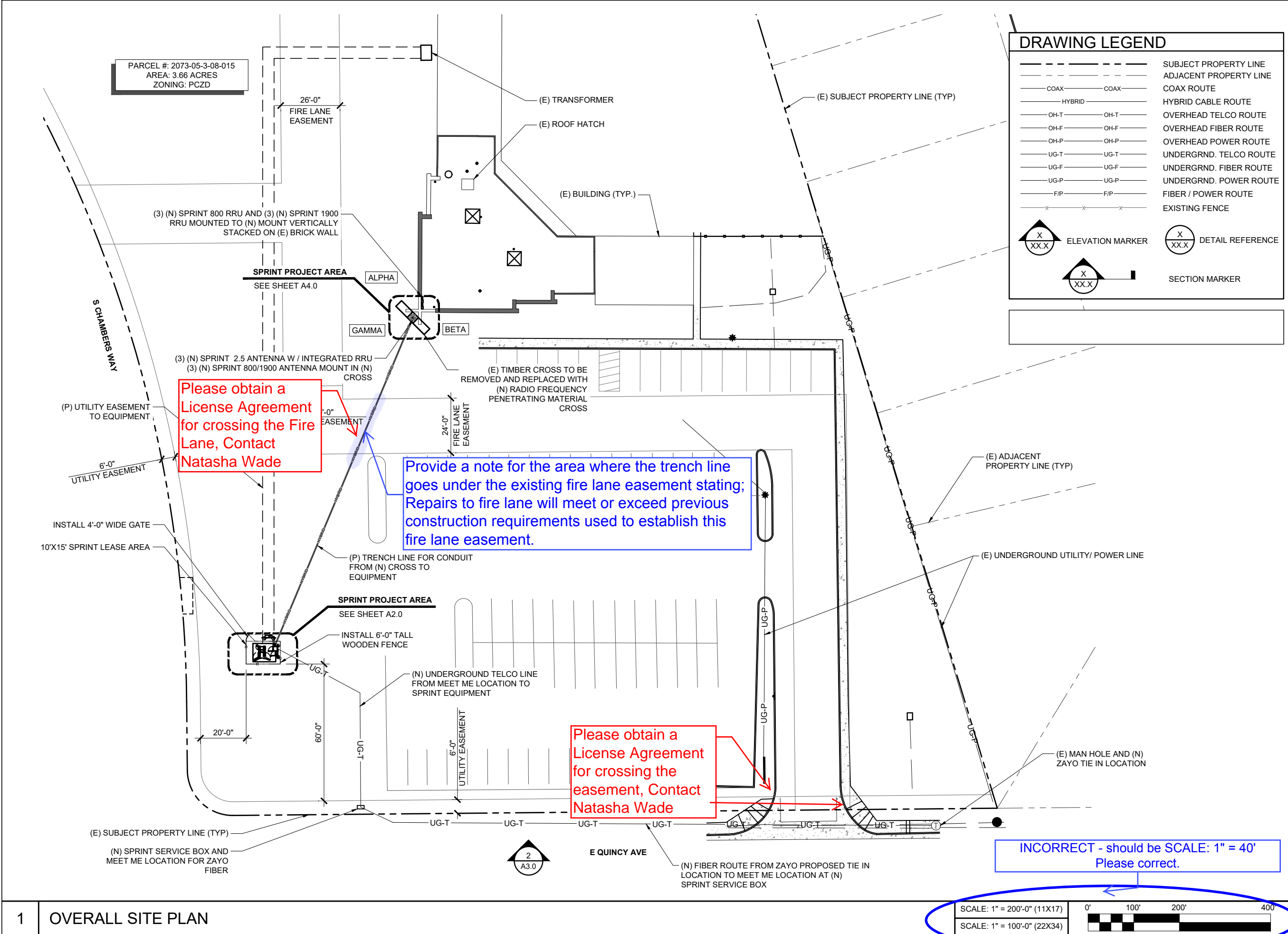
LS1 0
SHEET 1 OF 2 SHEETS 18116

GRAPHIC SCALE

0 0 20 40



FEET



DRAWING LEGEND	
	SUBJECT PROPERTY LINE
	ADJACENT PROPERTY LINE
	COAX ROUTE
	HYBRID CABLE ROUTE
	OVERHEAD TELCO ROUTE
	OVERHEAD FIBER ROUTE
	OVERHEAD POWER ROUTE
	UNDERGRND. TELCO ROUTE
	UNDERGRND. FIBER ROUTE
	UNDERGRND. POWER ROUTE
	FIBER / POWER ROUTE
	EXISTING FENCE
	ELEVATION MARKER
	DETAIL REFERENCE
	SECTION MARKER



CP PROJECT NO.: SN-18-0093-3

PRELIMINARY			
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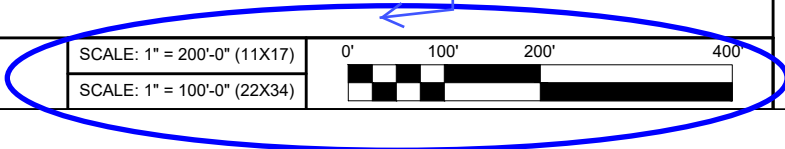
SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION

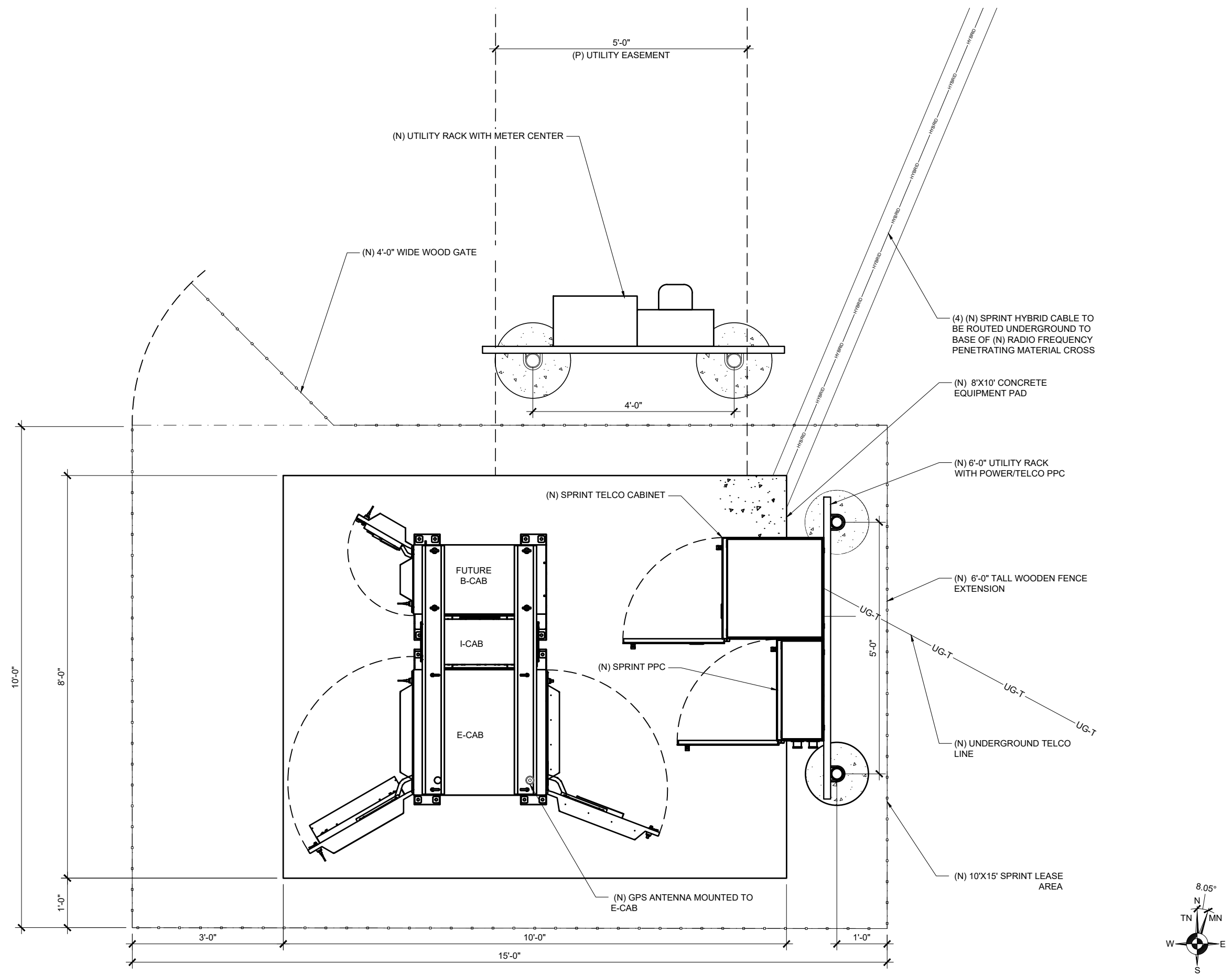
SITE NAME:
TRINITY BAPTIST CHURCH

SITE ADDRESS:
15555 E QUINCY AVE
AURORA, CO 80015

SHEET TITLE
OVERALL SITE PLAN

SHEET NO.
A1.0





CP PROJECT NO.: SN-18-0093-3

PRELIMINARY

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SUBMITTAL

NO.	DATE	D/C	DESCRIPTION

SITE NAME:

TRINITY BAPTIST CHURCH

SITE ADDRESS:

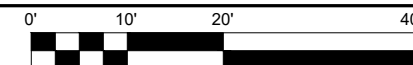
15555 E QUINCY AVE
AURORA, CO 80015

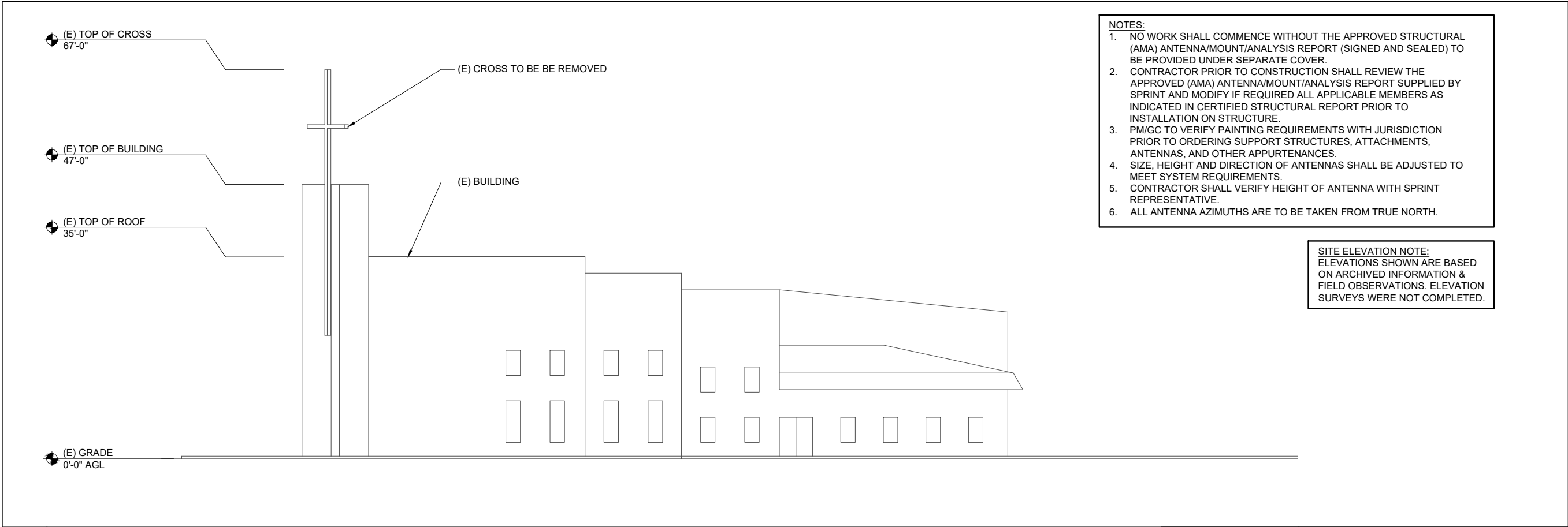
SHEET TITLE

ENLARGED
EQUIPMENT PLAN

SHEET NO.

A2.0





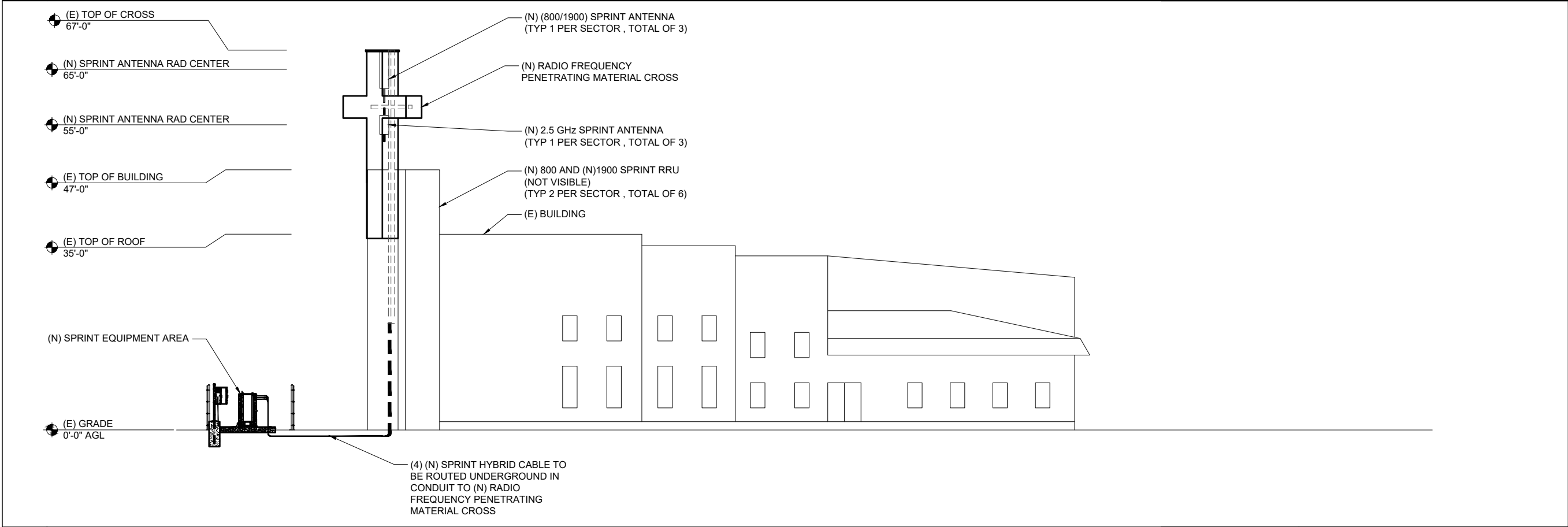
- NOTES:
1. NO WORK SHALL COMMENCE WITHOUT THE APPROVED STRUCTURAL (AMA) ANTENNA/MOUNT/ANALYSIS REPORT (SIGNED AND SEALED) TO BE PROVIDED UNDER SEPARATE COVER.
 2. CONTRACTOR PRIOR TO CONSTRUCTION SHALL REVIEW THE APPROVED (AMA) ANTENNA/MOUNT/ANALYSIS REPORT SUPPLIED BY SPRINT AND MODIFY IF REQUIRED ALL APPLICABLE MEMBERS AS INDICATED IN CERTIFIED STRUCTURAL REPORT PRIOR TO INSTALLATION ON STRUCTURE.
 3. PM/GC TO VERIFY PAINTING REQUIREMENTS WITH JURISDICTION PRIOR TO ORDERING SUPPORT STRUCTURES, ATTACHMENTS, ANTENNAS, AND OTHER APPURTENANCES.
 4. SIZE, HEIGHT AND DIRECTION OF ANTENNAS SHALL BE ADJUSTED TO MEET SYSTEM REQUIREMENTS.
 5. CONTRACTOR SHALL VERIFY HEIGHT OF ANTENNA WITH SPRINT REPRESENTATIVE.
 6. ALL ANTENNA AZIMUTHS ARE TO BE TAKEN FROM TRUE NORTH.

SITE ELEVATION NOTE:
ELEVATIONS SHOWN ARE BASED
ON ARCHIVED INFORMATION &
FIELD OBSERVATIONS. ELEVATION
SURVEYS WERE NOT COMPLETED.

1 (E) SOUTH ELEVATION

SCALE: 1" = 20'-0" (11X17)
SCALE: 1" = 10'-0" (22X34)

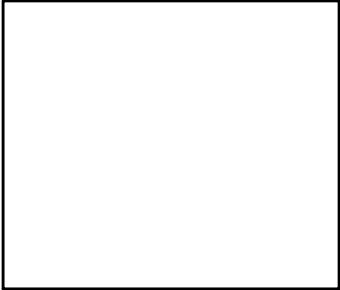
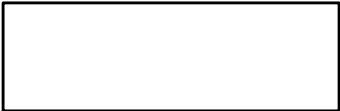
0' 10' 20' 40'



2 (N) SOUTH ELEVATION

SCALE: 1" = 20'-0" (11X17)
SCALE: 1" = 10'-0" (22X34)

0' 10' 20' 40'



CP PROJECT NO.: SN-18-0093-3

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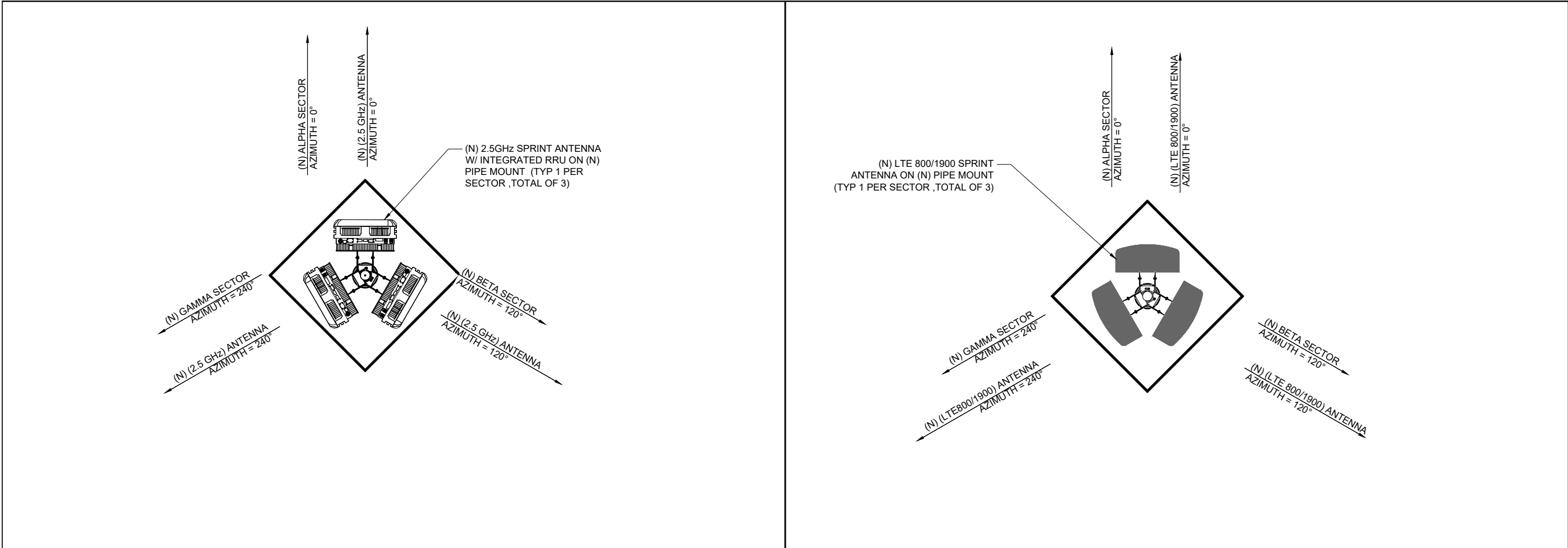
SUBMITTAL			
NO.	DATE	D/C	DESCRIPTION

SITE NAME:
TRINITY BAPTIST
CHURCH

SITE ADDRESS:
15555 E QUINCY AVE
AURORA, CO 80015

SHEET TITLE
ELEVATIONS

SHEET NO.
A3.0



1

NEW ANTENNA PLAN (RAD CENTER 55'-0")

SCALE: NTS

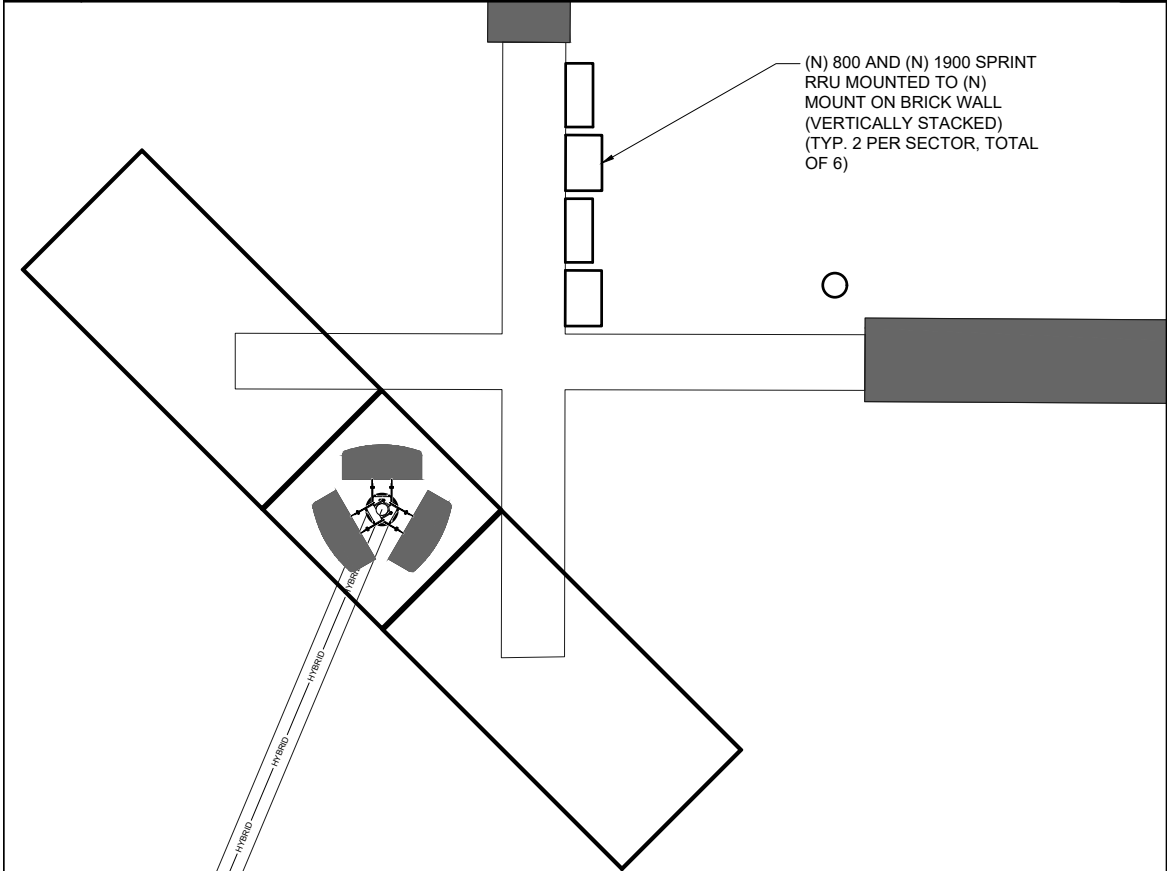
SCALE: NTS

2

NEW ANTENNA PLAN (RAD CENTER 65'-0")

SCALE: NTS

SCALE: NTS



3

RRU PLAN

SCALE: NTS

SCALE: NTS

NEW RRU / HYBRID CABLE SCHEDULE						
SECTOR	RRU MODEL	RRU FREQUENCY	HYBRID CABLE LENGTH	HYBRID CABLE DIAMETER	JUMPER SIZE	JUMPER LENGTH
ALPHA	RRH-P4	1900 MHz	125'	1.544"	1/2"	8'
ALPHA	RRH-C4	800 MHz	125'	1.544"	1/2"	8'
BETA	RRH-P4	1900 MHz	125'	1.544"	1/2"	8'
BETA	RRH-C4	800 MHz	125'	1.544"	1/2"	8'
GAMMA	RRH-P4	1900 MHz	125'	1.544"	1/2"	8'
GAMMA	RRH-C4	800 MHz	125'	1.544"	1/2"	8'

ANTENNA SCHEDULE									
SECTOR	ANTENNA FREQUENCY	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA QTY.	AZIMUTH	RAD CENTER	ANTENNA SIZE	ELECT. TILT 800/1900/2500	MECH. TILT
ALPHA	2500 MHz	SAMSUNG	MMU	1	0°	55'- 0"	41.3"	2°/2°/2°	0°
ALPHA	800 MHz / 1900 MHz	RFS	APXVBLL20X_43-C-120	1	0°	65'- 0"	82.6"		
BETA	2500 MHz	SAMSUNG	MMU	1	120°	55'- 0"	41.3"		
BETA	800 MHz / 1900 MHz	RFS	APXVBLL20X_43-C-120	1	120°	65'- 0"	82.6"		
GAMMA	2500 MHz	SAMSUNG	MMU	1	240°	55'- 0"	41.3"		
GAMMA	800 MHz / 1900 MHz	RFS	APXVBLL20X_43-C-120	1	240°	65'- 0"	82.6"		

NOTES:
1. STRUCTURAL ANALYSIS MUST BE PERFORMED ON ALL ROOFTOPS, FLAGPOLES AND TOWER SITES BEFORE INSTALLATION OF NEW ANTENNAS, NEW RRHs, & NEW CABINETS/TEMPORARY PLATFORM. STRUCTURAL ANALYSIS PROVIDED BY GENERAL DYNAMICS.
2. EXISTING ANTENNAS ARE CDMA UNLESS NOTED OTHERWISE.
3. NEW SPRINT ANTENNAS INCLUDE RESPECTIVE RRHs WHICH SHALL BE MOUNTED ON THE PIPE BEHIND THE ANTENNA SIMILAR TO THAT SHOWN ON DETAIL 7, SHEET A-6.
4. FIELD VERIFY EXISTING AZIMUTH BEFORE RELOCATING THE ANTENNA, IF REQUIRED. PRIOR APPROVAL FROM SPRINT TO BE GRANTED BEFORE RELOCATION OF ANTENNAS.
5. ALL AZIMUTHS ARE TO BE ESTABLISHED CLOCKWISE FROM THE TRUE NORTH HEADING. CONTRACTOR SHALL VERIFY NEW ANTENNA RAD CENTER AND ORIENTATIONS WITH SPRINT PCS PRIOR TO INSTALLATION OF ANTENNAS. PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, EXISTING TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE NEW LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS. CONTRACTOR SHALL REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OF MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

4

ANTENNA / ANCILLARY SCHEDULE AND NOTES

SCALE: NTS

SCALE: NTS

CP PROJECT NO.: SN-18-0093-3

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NO.	DATE	D/C	DESCRIPTION

SITE NAME:

TRINITY BAPTIST CHURCH

SITE ADDRESS:

15555 E QUINCY AVE
AURORA, CO 80015

SHEET TITLE

ANTENNA PLAN
AND DETAILS

SHEET NO.

A4.0