

SITE NAME: STEAMBOAT SKI AREA **GONDOLA BASE**

FA LOCATION: 10148686

PROJECT NUMBER: MRUTH045832

ADDRESS: 2305 MOUNT WERNER CIR STEAMBOAT, CO 80487

SITE CONTACT:

JEREMY GARD DIRECTOR - INFORMATION TECHNOLOGY JGARD@STEAMBOAT.COM

SITE PHOTO:



PROJECT DESCRIPTION:

REMOVAL AND RELOCATION OF EXISTING AT&T REMOTE EQUIPMENT. EQUIPMENT TO BE REMOVED FROM GONDOLA CLOCK TOWER ATTIC AND ANTENNAS FROM PARAPET. EQUIPMENT TO BE RE-INSTALLED IN ADJACENT CLOCK TOWER ATTIC WITH ANTENNAS FACIADE MOUNTED ON

SITE ACCESS:

HEAD END IS LOCATED IN PARKING GARAGE CAVE. NEW EQUIPMENT REQUIRES LADDER TO ACCESS ATTIC.

PROJECT DATA:

JURISDICTION: ROUTT COUNTY OCCUPANCY TYPE: CONSTRUCTION TYPE: V-B

FULLY SPRINKLERED: NO GOVERNING CODES:

NUMBER OF STORIES: 2018 I-CODES, 2020 NEC

SHEET LIST:

TITLE SHEET

RF1.0 RF PLUMBING RF1.1 VOLT SERVER PLUMBING

A10 OVERALL SITE PLAN

HEAD END OVERVIEW

EXISTING RACK ELEVATIONS

NEW RACK ELEVATIONS A3.2 GONDOLA SQURE DEMO PLAN

CLOCK TOWER OVERVIEW

ATTIC LAYOUT

CLOCK TOWER ELEVATIONS CLOCK TOWER ATTIC SECTION

CONTRACTOR NOTES:

CONTRACTOR TO REVIEW PLANS AND VERIFY ALL

CONSTRUCTION MANAGER IN WRITING OF ANY

REFER TO FINAL RF DESIGN AND RFDS FOR ALL RF

DIMENSIONS PRIOR TO BIDDING PROJECT AND STARTING

CONSTRUCTION. IMMEDIATELY NOTIFY ARCHITECT AND

DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK

X-RAY OR GPR ALL CONCRETE STRUCTURES PRIOR TO DRILLING, CUTTING OR CORING TO AVOID DAMAGING ANY EMBEDMENTS.
PRIOR TO ANY EXCAVATION, CONTACT STATE UTILITY NOTIFICATION CENTER TO OBTAIN LOCATES. NOT ALL UNDERGROUND UTILITIES OR FACILITIES ARE SHOWN. INSTALLATION TO STRIVE TO REDUCE IMPACT TO EXISTING FACILITY. CONTRACTOR TO RETURN FINISHES TO EXISTING CONDITION AND PAINT ALL INSTALLED

EQUIPMENT TO BLEND INTO SURROUNDING COLOR

FIBER PATHWAY

ELECTRICAL AND GROUNDING PLAN

ELECTRICAL PANEL SCHEDULE & ONE LINE CLOCK TOWER ELECT & GROUND PLAN E1.2 E2.1

MOUNT DETAILS S1.1

EQUIPMENT DETAILS D1 1 **EQUIPMENT DETAILS**

GENERAL NOTES

MOUNTAIN **WIRELESS**

927 SALIDA WAY AURORA, CO 80011





DRIVE WEST, CO 80112

RNESS I WOOD,



SITE NAME: STEAMBOAT SKI AREA GONDOLA BASE

SITE ADDRESS:

2305 MOUNT WERNER CIR STEAMBOAT, CO 80487

PROJECT:

GONDOLA RELO

PHASE:

CONSTRUCTION ISSUE DATE:

9/27/2021

RCRBD Record Set 10/27/2021

LINE TYPE LEGEND:

SINGLE MODE FIBER OPTIC MULTI MODE FIBER OPTIC COAX - DUPLEX / GPS COAX - SIMPLEX (UP LINK) COAX - SIMPLEX (DOWN LINK) ETHERNET POWER GROUND

TITLE

SHEET

PROJECT TEAM:

CONSTRUCTION MANAGER:

JJ HENRIKSON AT&T WIRELESS 720 244 7632 TH284J@ATT.COM RF MANAGER:

YASH NANJUNDASWAMY AT&T WIRELESS 303 374 4645 YN211V@ATT.COM

A&E MANAGER:

STEPHEN LESTER MOUNTAIN WIRELESS 303 589 8899 SLESTER@MTWIRE COM STRUCTURAL ENGINEER:

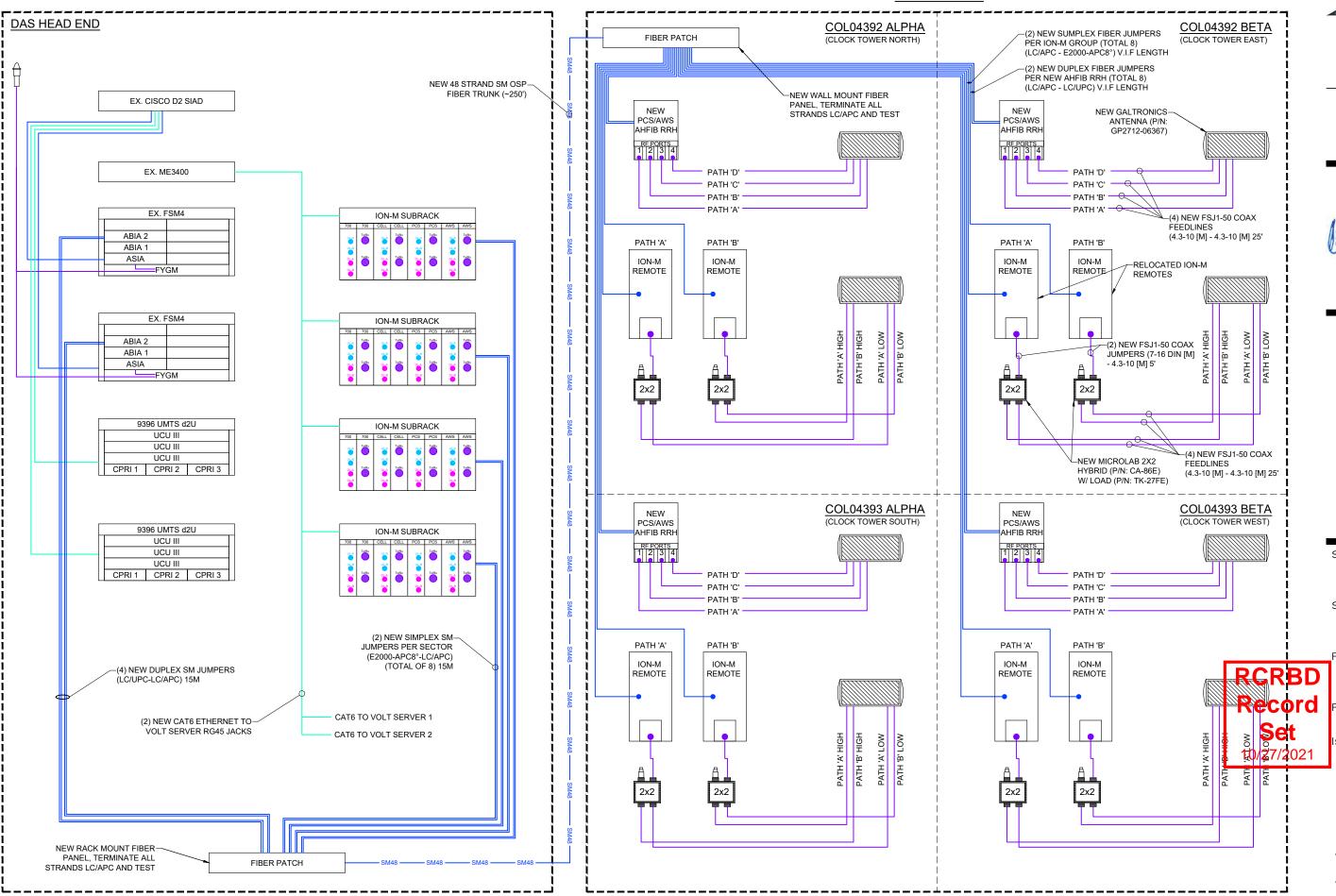
KHRISTOPHER SCOTT, PE TELEMTN ENGINEERING, LLC. 303.596.6804 KSCOTT@TELEMTN.COM

ELECTRICAL ENGINEER:

JOHN KEATING, PE TELEMTN ENGINEERING, LLC. 303.437.0510 JKEATING@TELEMTN.COM

*** DASHED = EXISTING ***

CLOCK TOWER





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AT&T

RNESS DRIVE WES' WOOD, CO 80112



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STEAMBOAT, CO 80487

PROJECT:

GONDOLA RELO

PHASE:

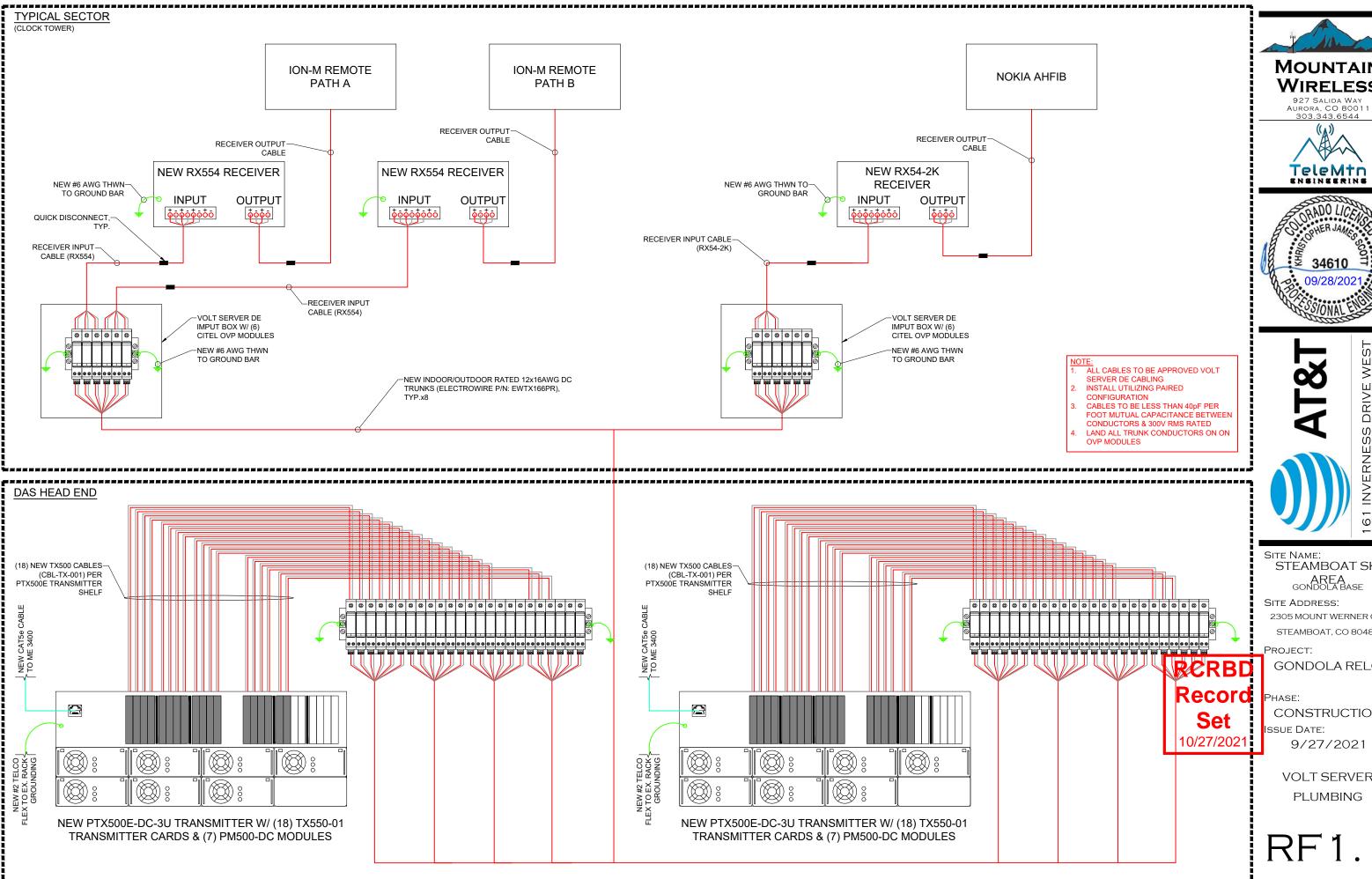
CONSTRUCTION
ISSUE DATE:

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0, 2, , 202

RF AND DAS
PLUMBING

RF1.0









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STEAMBOAT SKI AREA GONDOLA BASE

SITE ADDRESS:

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GONDOLA RELO

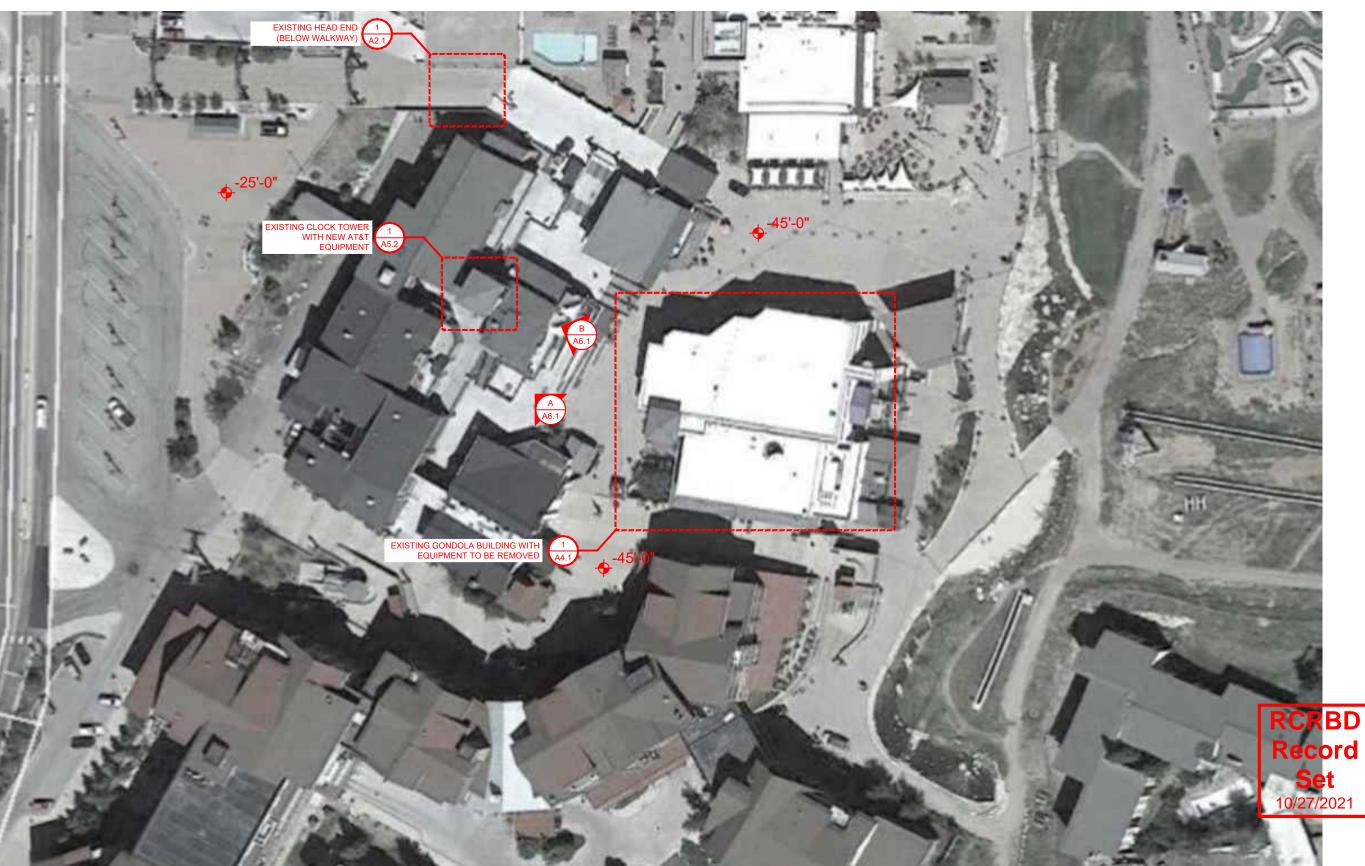
CONSTRUCTION

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VOLT SERVER

RF 1.1

USE 1/2 SCALE FOR 11"X17" SHEET











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PROJECT:

GONDOLA RELO

PHASE:

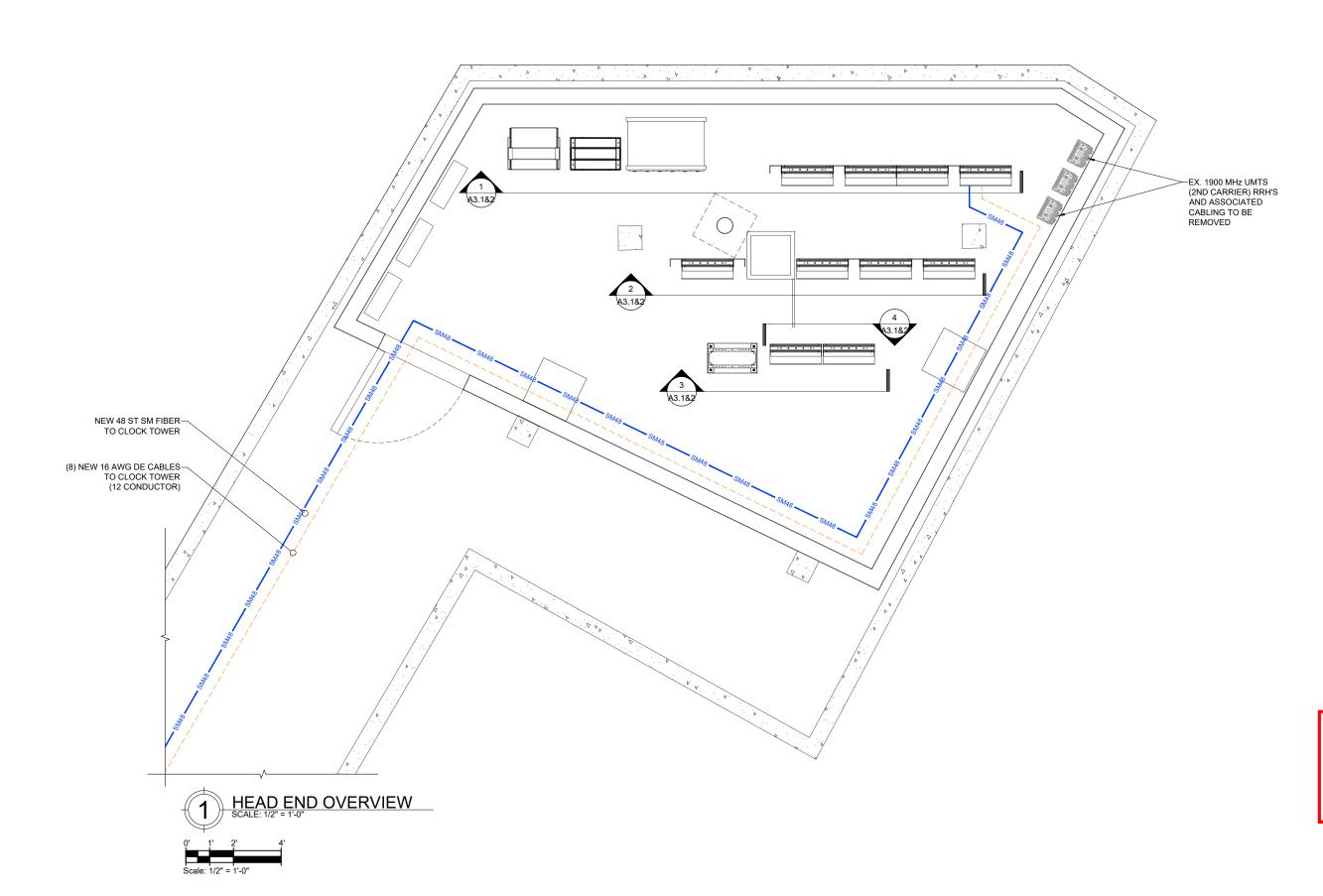
CONSTRUCTION ISSUE DATE:

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OVERALL SITE PLAN

A1.0











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PROJECT:

RCRBD GONDOLA RELO Record PHASE:

Set

10/27/2021

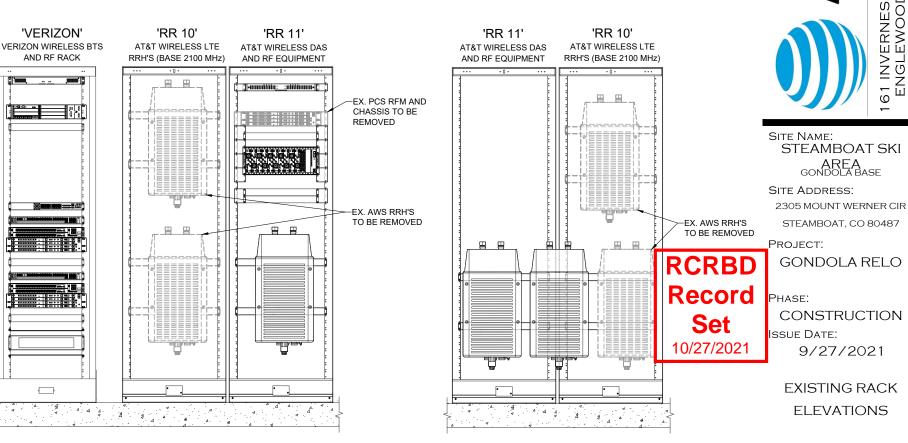
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HEAD END OVERVIEW

A2.1





EX. ROW 2 ELEVATION

'RR 6'

AT&T WIRELESS BACKHAUL

AND BTS RACK (BASE)

'BASE DAS'

ION-M CLOCK TOWER

DAS HEAD END

'RR 7'

AT&T WIRELESS DAS

ATTENUATION

6 6 CO **6** 6 CO

0 0 0 0

@ @.CO @ @.CO

'RR 8'

AT&T WIRELESS BTS AND

RRH'S (ON MTN 700 MHz)

'RR 9'

AT&T WIRELESS BTS AND

RRH (BASE 700 MHz)

EX. ROW 3 ELEVATION (FT)

EX. ROW 3 ELEVATION (BACK)

A3.1

9/27/2021

ELEVATIONS

AREA GONDOLA BASE

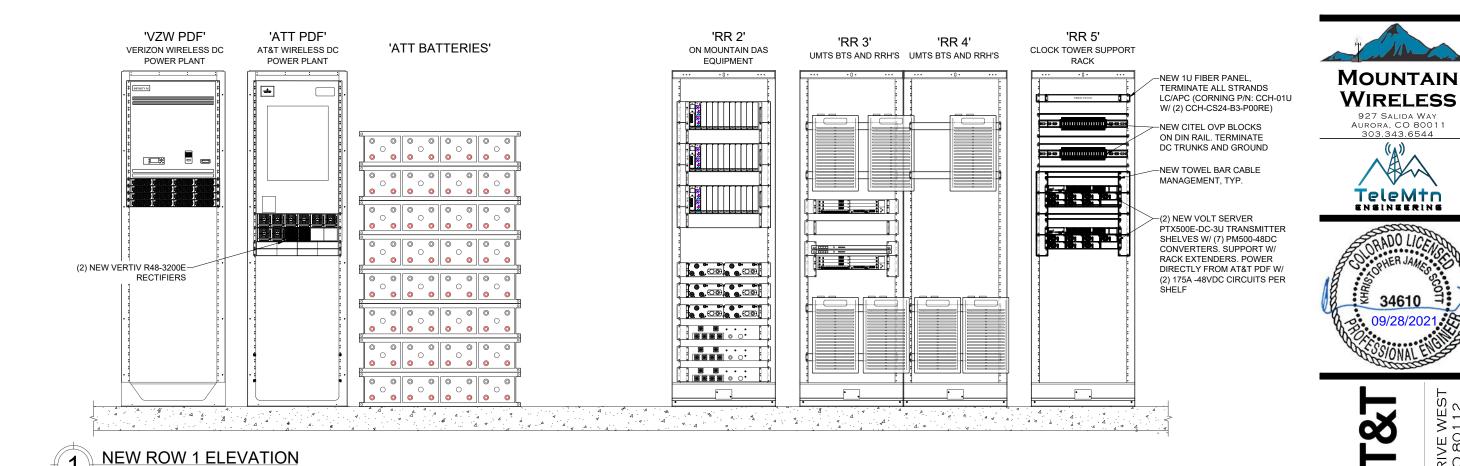
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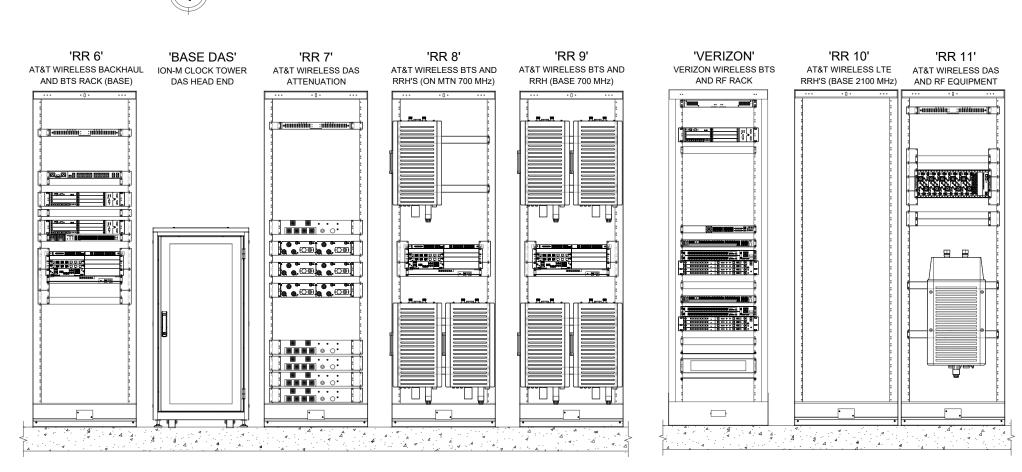
TeleMtn

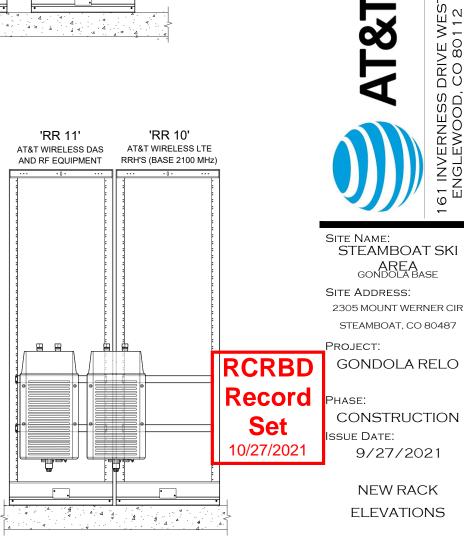
ENSINEERINE

61 INVERNESS DRIVE WESTENGLEWOOD, CO 80112

USE 1/2 SCALE FOR 11"X17" SHEET







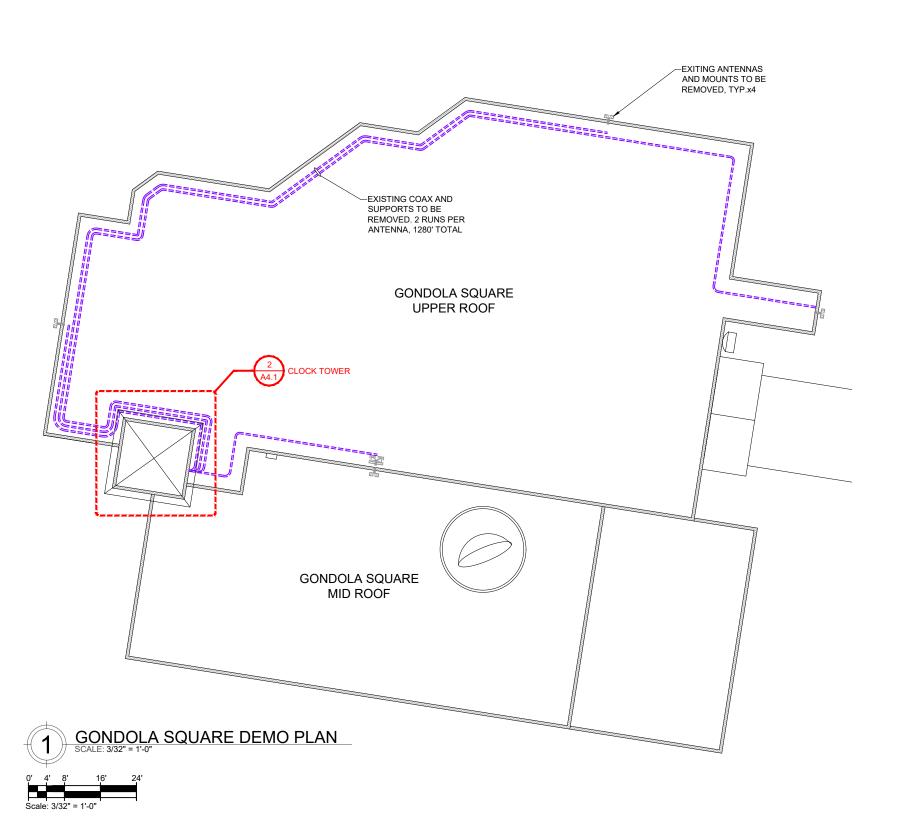
NEW ROW 3 ELEVATION (FT)

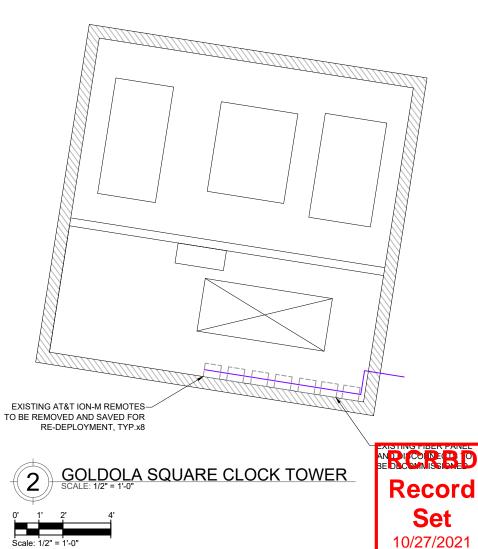
NEW ROW 3 ELEVATION (BACK)

A3.2

RADO LICA

34610





MOUNTAIN WIRELESS 927 SALIDA WAY AURORA, CO 80011 303.343.6544





AT&T



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PROJECT:

GONDOLA RELO

PHASE:

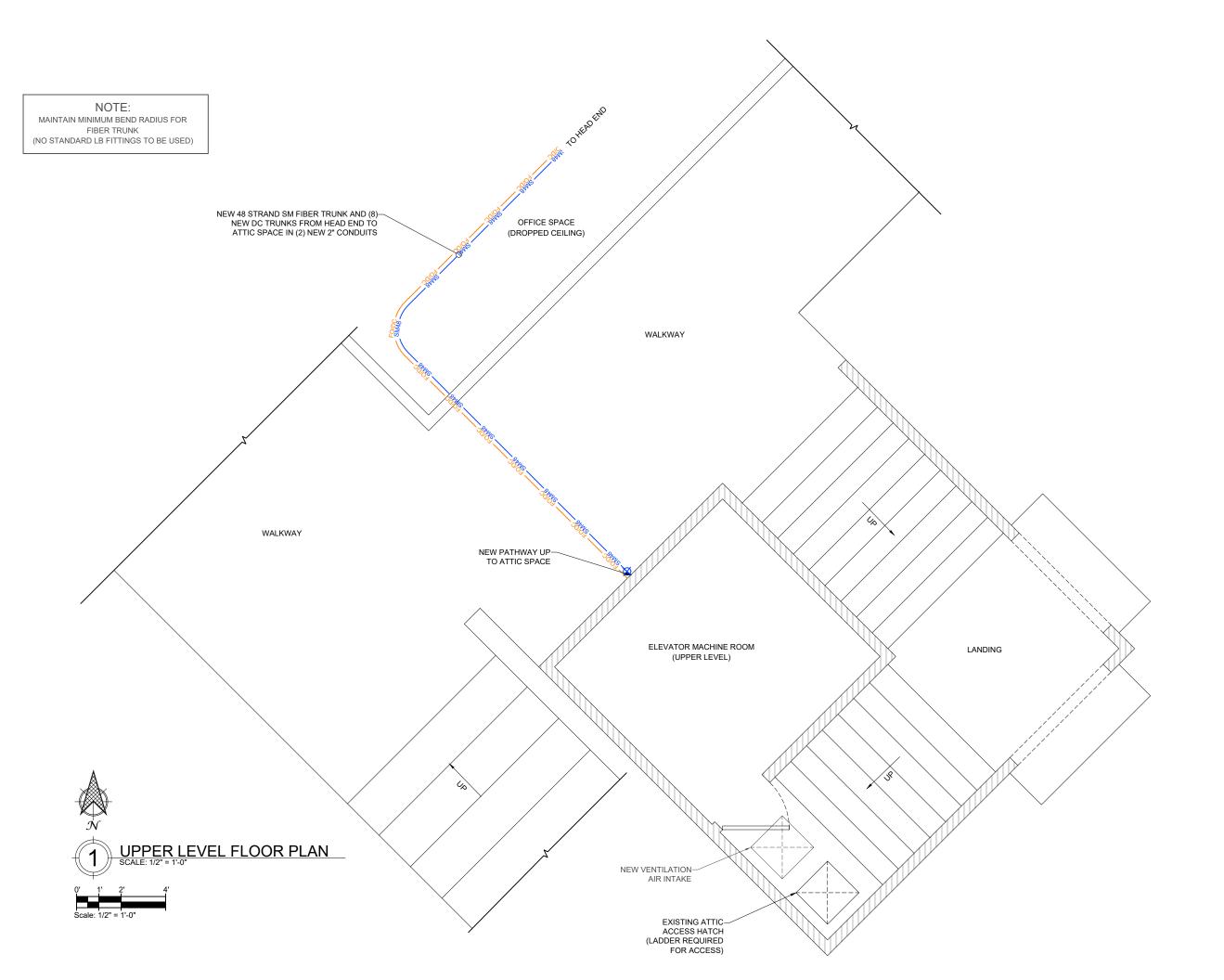
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GONDOLA SQUARE
DEMO PLAN

A4.





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LAWIDOAT, CO 8

GONDOLA RELO

RCRBD Record Set

10/27/2021

Phase:

PROJECT:

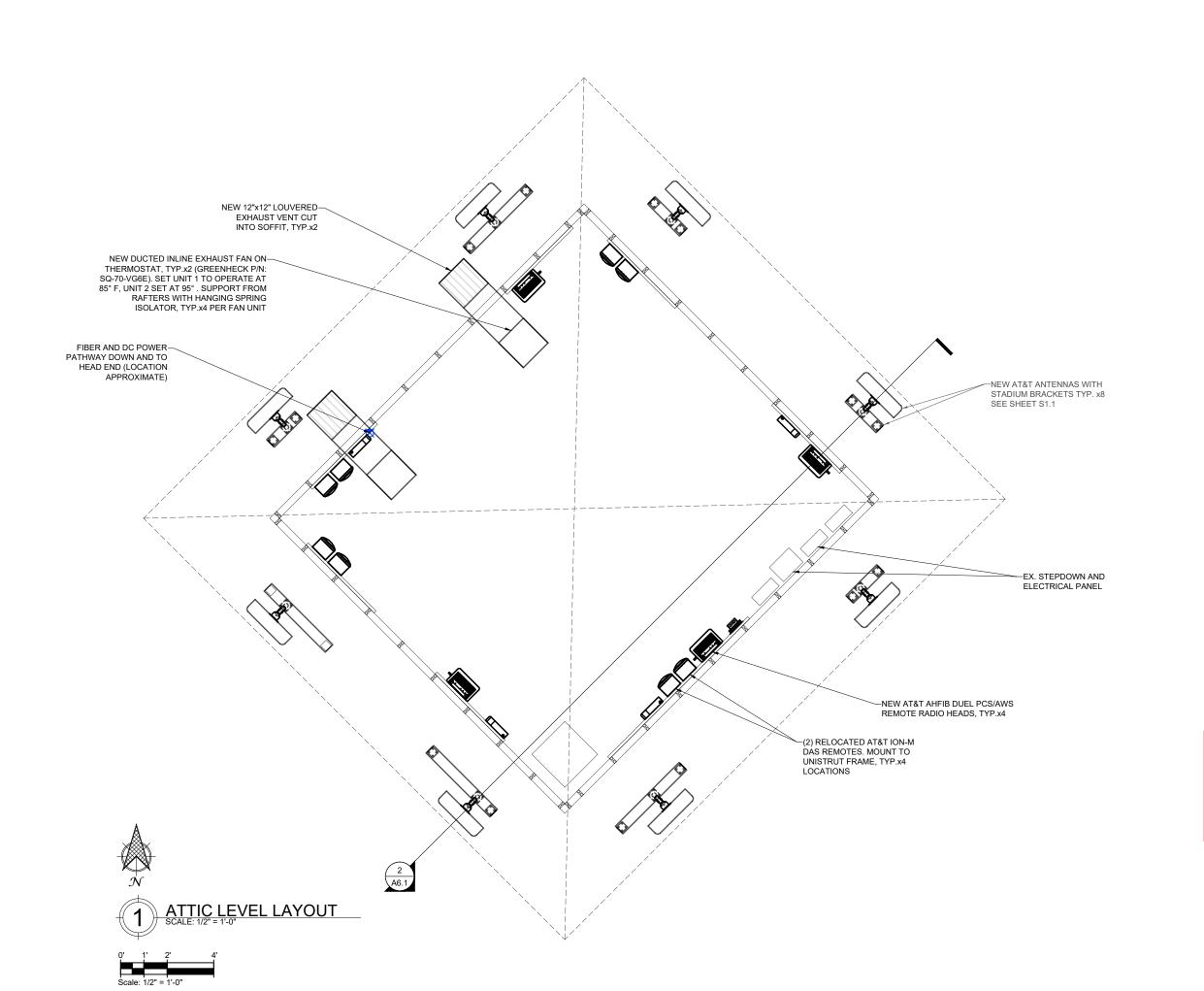
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CLOCK TOWER OVERVIEW

A5.1





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PROJECT:

RCRBD Record Set GONDOLA RELO

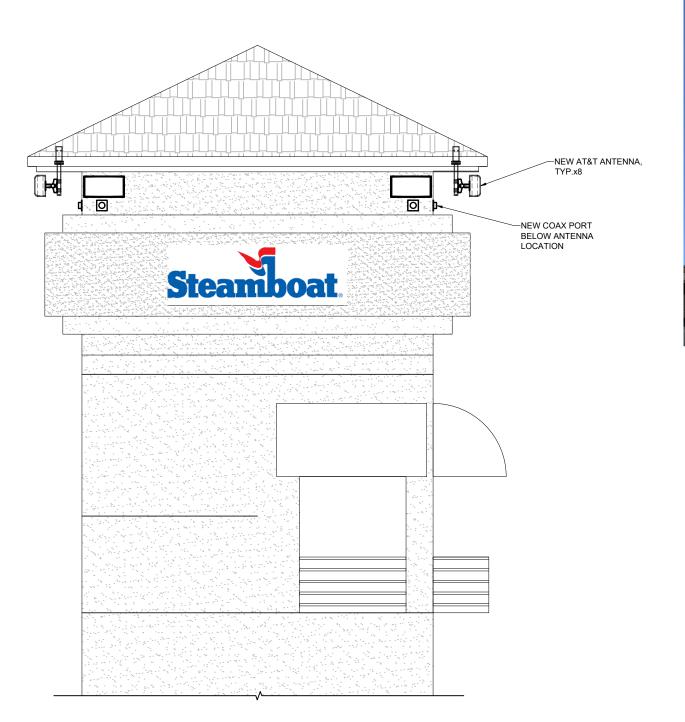
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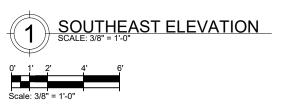
CONSTRUCTION
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ATTIC LAYOUT

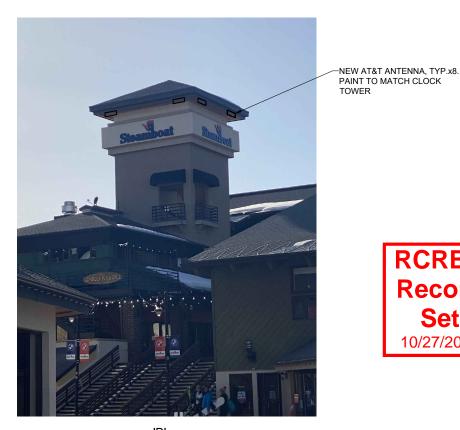
A5.2







SOUTHEAST ELEVATION



'B' **EAST ELEVATION**









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PROJECT:

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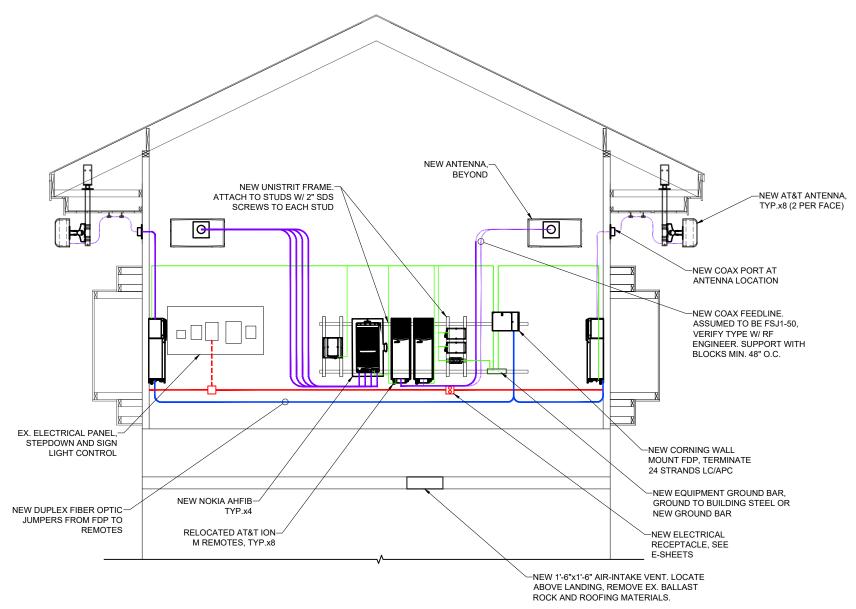
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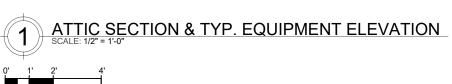
CONSTRUCTION

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CLOCK TOWER ELEVATIONS

A6.1







'A' ATTIC INTERIOR



'B' ATTIC INTERIOR







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PHASE:

Set

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CONSTRUCTION ISSUE DATE:

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CLOCK TOWER ATTIC SECTION

A6.2



FIBER PATHWAY PLAN
SCALE:











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PROJECT:

GONDOLA RELO

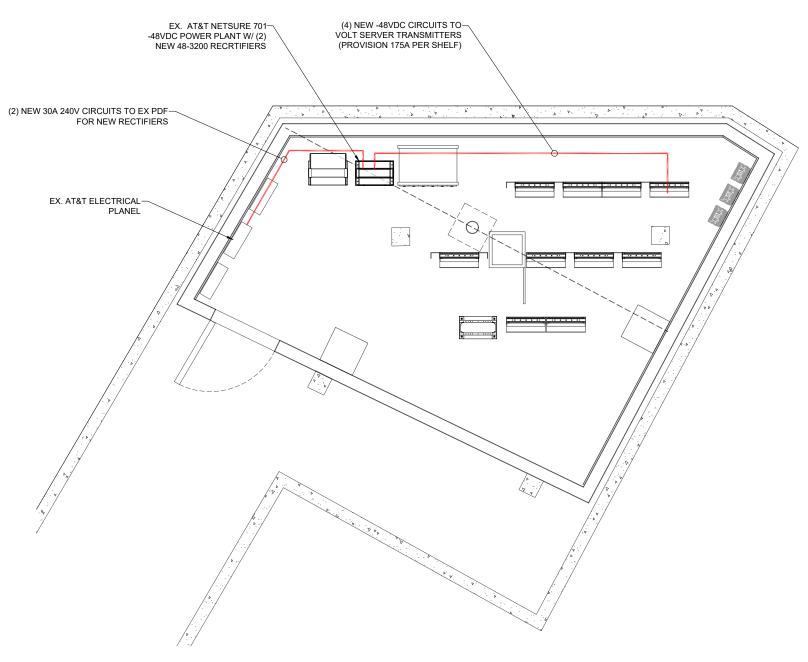
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CONSTRUCTION
ISSUE DATE:

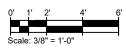
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FIBER PATHWAY

A7.1













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PROJECT:

RCRBD Record Set GONDOLA RELO

PHASE:

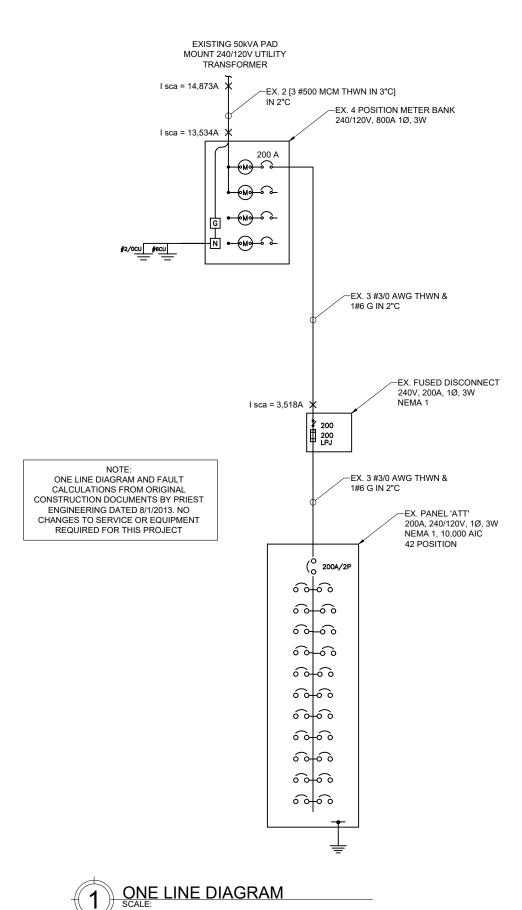
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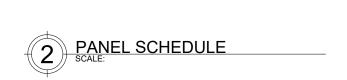
ELECTRICAL AND GROUNDING PLAN



E1.1



PANEL NAME VOLTAGE RATING	AT&T 120/240 VAC				ENCL. TYPE MOUNTING TYPE		NEMA 1 SURFACE		NOTES: 30 DAY LOAD STUDY
CONN. LINE VOLTAGE	240		VAC	1	LOCKABLE CABINET				CONDUCTED 8/4/2021 -
PHASE	1	WIRE	3		DOOR-IN-DOOR?			NO	9/3/2021
BUS TYPE	M	AIN BREAK	KER	MFR.					
BUS RATING	2	00	AMPS	MODEL					
MAIN BREAKER	2	00	AMPS		CAT. NO.				
BREAKER TYPE	PLUG-IN					ES OCPD REQUIRED?		NO	
INTERRUPTING RATING	1	10	KAIC	J	FUSE TYPE		NA NA		
LOAD	POS	СВ		A	В		СВ	POS	LOAD
ATT RECTIFIER 1	42	- 2P30			-		0000	41	TVSS
	40						2P60	39	
ATT RECTIFIER 2	38	- 2P30					2P20	37	RECEPT
	36						2P15	35	INT LIGHTS
ATT RECTIFIER 3	34	2P30					2P15	33	EXT LIGHTS
	32						2P15	31	FAN COIL 1
ATT RECTIFIER 4	30	- 2P30					2P15	29	FAN COIL 2
	28							27	
ATT RECTIFIER 5	26	- 2P30					2P40 ·	25	AC 1
	24						2P40 -	23	AC 2
ATT RECTIFIER 6	22	2P30						21	
	20	2P30					2P15	19	EF 1
ATT RECTIFIER 7	18	2P30					2P15	17	CIENA
	16	21 00					2P20	15	ICE MELT
ATT RECTIFIER 8	14	2P30						13	- FAN COIL
	12						2P20	11	7,11,00.2
ATT RECTIFIER 9 (EX BRANCH CIRCUIT)	10	2P30	1600		1600		2P20 -	9	ICE MELT
	8							7	
ATT RECTIFIER 10 (NEW BRANCH CIRCUIT)	6	2P30	1600				2P20	5	RECEPT
	4				1600			3	
	2							1	
LOAD STU		AVERAGE) NEW LOAD		526 200	3141 3200				
LOAD TYPE RECEPTACLES < 10 KVA RECEPTACLES > 10 KVA LIGHTING LARGEST MOTOR UNITARY HVAC EQUIPMENT	(X X X X	NEC D.F. 100% 50% 125% 125% 100%	= = = = = = = = = = = = = = = = = = = =	 		TOTAL LOAD 19 39 77	KVA % AMPS
DC RECTIFIERS EXISTING LOAD	TOTAL	6400 10987 17387	× ×	75% 125%] = [4800 13734 18534	VA		









AT&T

RNESS DRIVE WESTWOOD, CO 80112



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PROJECT:

RCRBD Record Set

GONDOLA RELO

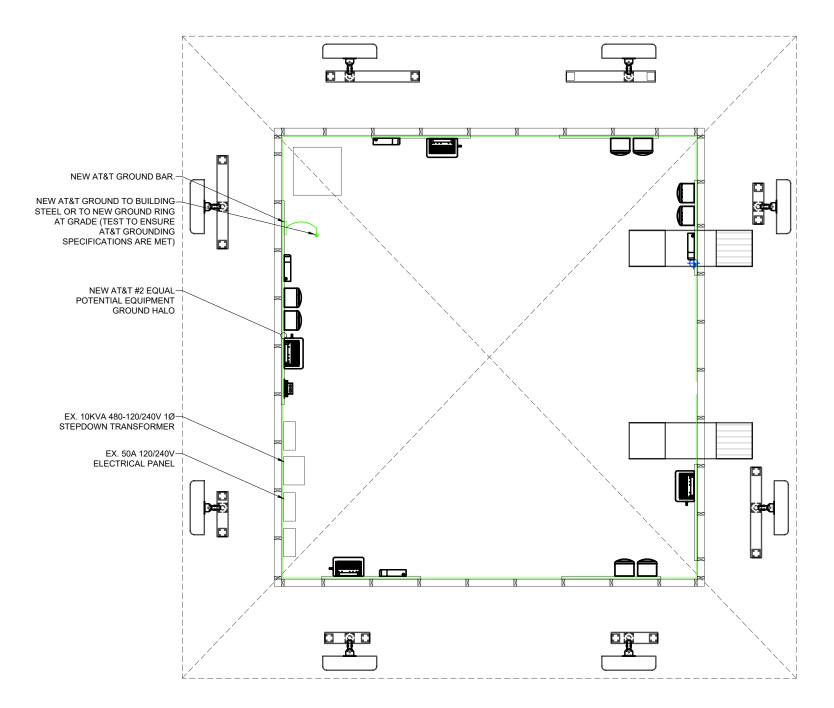
PHASE:

CONSTRUCTION
ISSUE DATE:

9/27/2021

ONE LINE & PANEL SCHEDULE

E1.2





ELECTRICAL NOTES:

- POWER FOR RE EQUIPMENT TO BE PROVIDED BY AT&T FROM HEAD END EQUIPMENT ROOM
 POWER FOR EXHAUST FANS TO BE PROVIDED BY
- STEAMBOAT
- NO EXISTING ELECTRICAL PANEL LOADING WAS
- NO ELECTRICAL DESIGN FOR EXISTING PANEL
- WAS COMPLETED AS PART OF THIS DESIGN SET.
 STEAMBOAT FACILITIES TO IDENTIFY LOCATION
 AND VERIFY AVAILABILITY OF SUFFICIENT POWER
- PROVIDED DEDICATED 20A CIRCUIT FOR EACH EXHAUST FAN
- EQUIPMENT GROUND TO BE INSTALLED TO MEET AT&T GROUND SPECIFICATIONS



EX. STEPDOWN TRANSFORMER



'B' EX. ATTIC LIGHTING PANEL



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PROJECT:

RCRBD GONDOLA RELO Record PHASE:

Set

10/27/2021

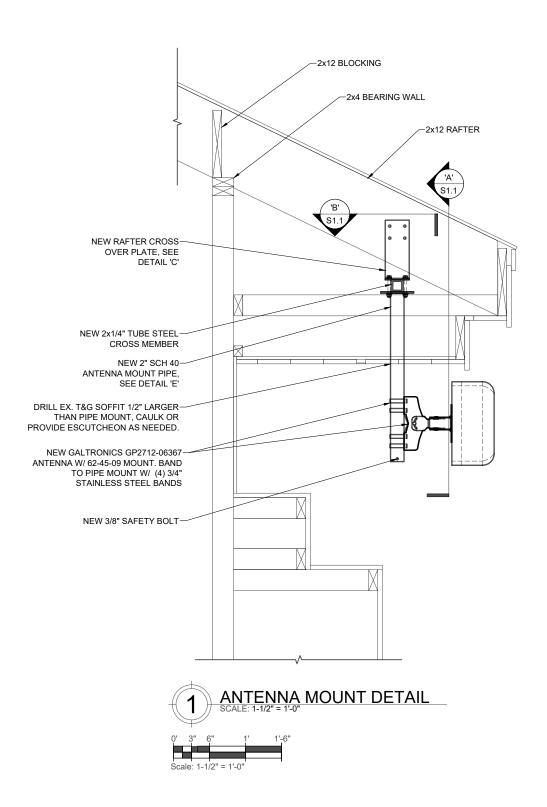
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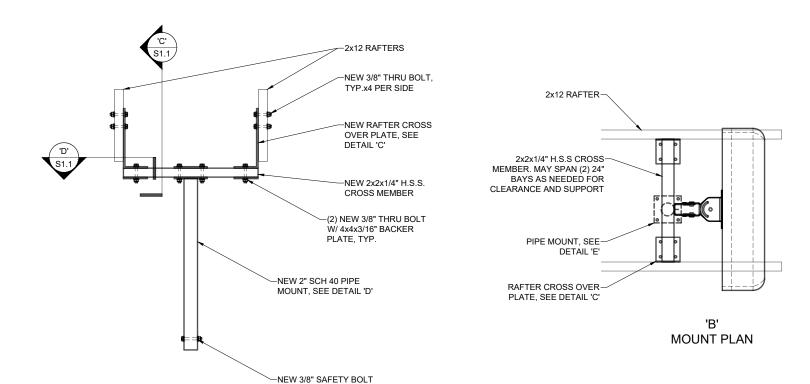
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CLOCK TOWER ELECT & GROUND PLAN

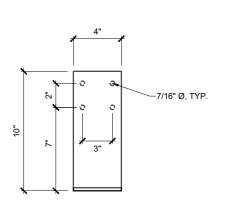


E2.1



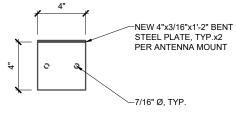


PIPE MOUNT DETAIL

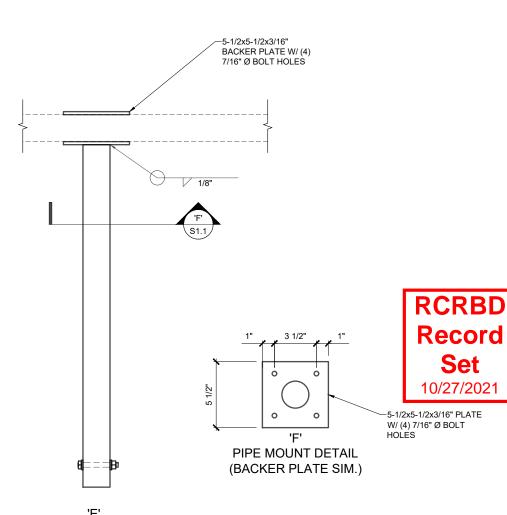


MOUNT ELEVATION





CROSS OVER PLATE DETAIL (BACKER PLATE SIM.)





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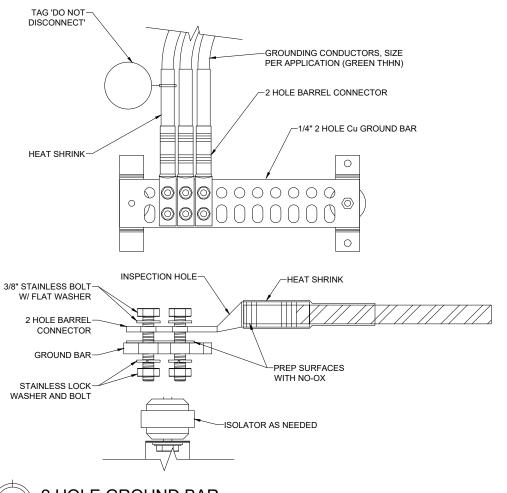
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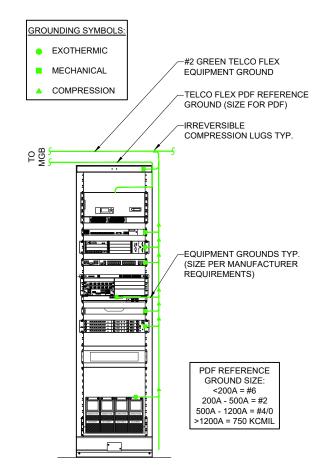
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MOUNT

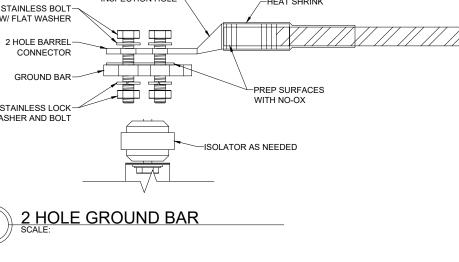
DETAILS

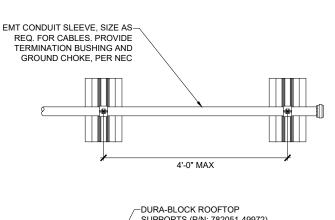


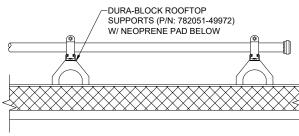


RACK GROUNDING

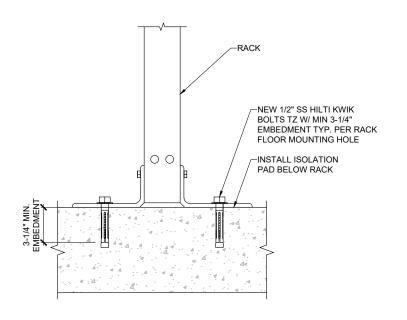
GPS MOUNT & GROUNDING













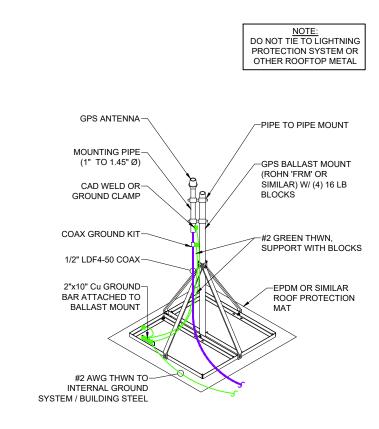


GONDOLA RELO

CONSTRUCTION

9/27/2021

EQUIPMENT DETAILS



MOUNTAIN WIRELESS 927 SALIDA WAY AURORA, CO 80011 303.343.6544





RNESS DRIVE WES' WOOD, CO 80112

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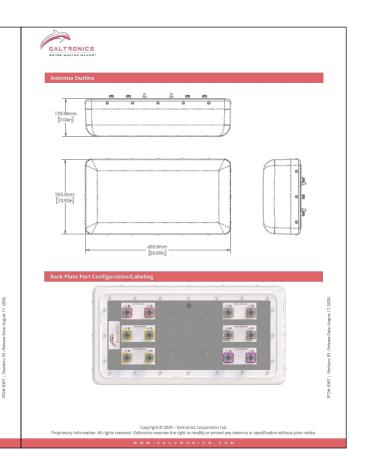
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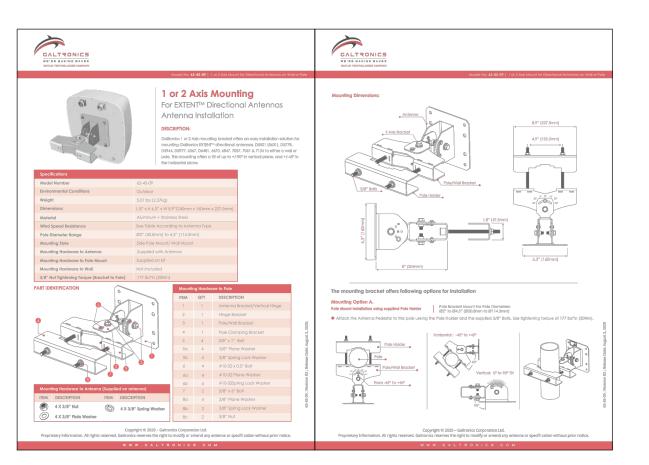
10/27/2021

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GALTRONICS STADIUM ANTENNA

GALTRONICS

GP2712-06367

2x ports for 617-896 MHz

4x ports for 1695-2690 MHz
 4x ports for 3400-3800 MHz
 2x ports for 5150-5925 MHz*

Single-sector 12-Port MiMO antenna for high capacity and stadium venues. 30%60° beam width dual-polarized covering 600 MHz/LTE/ CELL, AWS/PCS/WCS/BRS, CBRS and LAA / U-NII Bands.

GALTRONICS STADIUM ANTENNA BRACKET

> **EQUIPMENT DETAILS**

NOTES:

1. GENERAL

- CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DESIGN DOCUMENTS FIELD VERIFYING ALL EXISTING CONDITIONS AND ASSESSING ALL MODIFICATIONS REQUIRED TO COMPLETE THE INSTALLATION, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AND ARCHITECT / ENGINEER WITH ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND DESIGN DOCUMENTS AND OBTAIN WRITTEN CLARIFICATION PRIOR TO PROVIDING A QUOTE.
- WHILE REVIEWING THE DESIGN DOCUMENTS, THE CONTRACTOR SHALL IDENTIFY ANY ITEMS WHERE THE DESIGN INTENT IS UNCLEAR AND OBTAIN WRITTEN CLARIFICATIONS PRIOR TO FURNISHING A BID.
- CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CARRIER PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK.
- THESE DESIGN DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO SHOW FINAL CONDITIONS. MULTIPLE PHASING STEPS MAYBE NEEDED TO MAINTAIN SITE OPERATION DURING CONSTRUCTION AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN AND COORDINATE PHASING WITH CARRIER OPERATIONS.
- CONTRACTOR SHALL, UNLESS OTHERWISE NOTED. INCLUDE IN THEIR SCOPE OF WORK ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT TO COMPLETE THE INSTALLATION AS DESCRIBED IN DESIGN **DOCUMENTS**
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE EXECUTION OF THE SHOWN PROJECT AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING AND OBTAINING MATERIALS TO COMPLETE THE PROJECT. ANY REQUEST FOR ALTERATIONS TO THE DESIGN INTENT SHALL BE PROVIDED IN WRITING FOR REVIEW AND APPROVAL
- NO STRUCTURAL ALTERATIONS ARE TO BE MADE TO THE FACILITY 1.7. UNLESS SPECIFICALLY NOTED.
- CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT EXISTING SITE FINISHES AS MUCH AS POSSIBLE. ANY IMPACT TO SITE AND SURROUNDINGS SHALL BE MITIGATED AND CONTRACTOR SHALL RETURN SITE TO PRE-CONSTRUCTION CONDITIONS.
- ALL DEMOLISHED AND UNUSED MATERIALS SHALL BE REMOVED FROM SITE AND TRACKED ASSETS LOGGED AND RETURNED TO CARRIER FOR DISPOSAL OR RE-USE. CONTRACTOR TO KEEP THE SITE CLEAN, FREE OF HAZARDS AND TO PROPERLY DISPOSE OF ALL RUBBISH
- PLANS ARE NOT TO BE SCALED. UTILIZE DIMENSION CALL-OUTS FOR ESTIMATES. ALL CABLE LENGTHS ARE SHOWN FOR INFORMATIONAL PURPOSES AND IT IS THE CONTRACTORS RESPONSIBILITY TO FILED VERIFY ALL LENGTHS PRIOR TO ORDERING.
- CONTRACTOR TO OBTAIN X-RAY OR GPR (IF APPLICABLE) OF ANY MASONRY STRUCTURES IDENTIFYING ALL EMBEDMENT PRIOR TO CUTTING, DRILLING OR OTHER ACTIVITY WHICH COULD CAUSE DAMAGE AVOID ALL EMBEDMENT. OBTAIN APPROVAL FROM STRUCTURAL
- ENGINEER PRIOR TO IMPACTING ANY STRUCTURAL FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT DESIGN DOCUMENTS AND ENSURING THEY ARE DISTRIBUTED AND ARE FOLLOWED BY ALL PERSONAL INVOLVED IN THE PROJECT.
- EVERY FEFORT HAS BEEN MADE BY THE ARCHITECT / ENGINEERS TO PROVIDE ACCURATE AND COMPLETE DESIGN DOCUMENTS THOUGH MINOR ERRORS AND OMISSIONS MAYBE CONTAINED WITHIN THE DOCUMENTS. THESE SHALL NOT EXCUSE THE CONTRACTOR FROM PROVIDING AN ACCURATE PROPOSAL AND COMPLETING THE PROJECT IN ACCORDANCE WITH THE INTENT OF THE DESIGN DOCUMENTS.
- THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF IDENTIFYING ANY ISSUES AND NOTIFYING THE CONSTRUCTION MANAGER AND ARCHITECT / ENGINEER IN WRITING PRIOR TO SUBMITTING PRICING, IN THE EVENT OF DISCREPANCIES OR CONFLICTING ITEMS, THE CONTRACTOR SHALL PRICE THE MOST COSTLY OR EXPANSIVE OPTION UNLESS DIRECTED IN WRITING OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACCESS WITH VENUE MANAGEMENT FOR ALL NECESSARY WORK AND TO COMPLY WITH ANY REQUIREMENTS IMPOSED BY THE VENUE
- CONTRACTOR TO PROVIDE CLOSE OUT PACKAGE WITH ALL TEST RESULTS, SETTING SCREEN SHOTS, RELEVANT CATALOGS / CUT SHEETS, INSTRUCTION SHEETS AND A SET OF RED-LINED AS-BUILT DRAWINGS PRIOR TO FINAL BILLING.

- ALL WORK TO BE MEET OR EXCEED ALL APPLICABLE STANDARDS CODES, ORDNANCES, RULES AND REGULATIONS, WHEN TWO OR MORE ARE IN CONFLICT. THE MOST STRINGENT SHALL BE FOLLOWED. WHERE LICENSING IS REQUIRED, CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES PRIOR TO START OF WORK.
- CONTRACTOR TO COORDINATE WITH LOCAL JURISDICTION FOR ANY CODE RELATED QUESTIONS. ALL JURISDICTION REQUIRED CHANGES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT ROOMS ARE NOT MANNED, ARE NOT HABITABLE, AND TO NOT REQUIRE POTABLE WATER, SEWER CONNECTION OR A.D.A. ACCESS ACCOMMODATIONS
- CONTRACTOR TO REMOVE TRASH AND REFUSE ON A DAILY BASIS AND NO SOLID WASTE RECEPTACLE WILL BE SITED.

3. SITE WORK

- ALL EFFORT HAS BEEN MADE TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL UTILITIES SHOWN OR NOT AND PROTECT FROM DAMAGE, EXCAVATION CONTRACTOR TO OBTAIN REQUIRED LOCATED PRIOR TO STARTING WORK
- CONTRACTOR TO VERIFY STATE REQUIREMENTS FOR UTILITY LOCATION SERVICES AND EXCAVATION CONTRACTOR SHALL NOTIFY STATE OR LOCAL NOTIFICATION CENTER AS REQUIRED PRIOR TO ANY SITE DISTURBANCES

- CONTRACTOR SHALL PROTECT ALL SITE FINISHES AND IMPROVEMENTS AND RETURN ALL TO PRE WORK CONDITION. IF EXTERIOR SITE IMPROVEMENTS ARE REQUIRED, CONTRACTOR TO INSTALL AND MAINTAIN DRAINAGE / RUNOFF MITIGATION MEASURES THROUGH OUT THE PROJECT AND REVEGETATE AREA TO RETURN IT TO ORIGINAL CONDITIONS
- GRUB AND DISPOSE OF ALL ORGANIC MATERIAL PRIOR
- NO FILL OR EARTHWORK TO OCCUR WITH ON OR WITH FROZEN

- CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND SUPPLIES TO COMPLETE THE PROJECT NOT SPECIFICALLY PROVIDED BY CARRIER. CONTRACTOR TO CLARIFY PROVIDED MATERIALS PRIOR TO FURNISHING A BID.
- ALL FURNISHED MATERIALS SHALL MEET CARRIER SPECIFICATIONS AND MINIMUM REQUIREMENTS FOR THE PROJECT. ANY SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY CARRIER CONSTRUCTION MANAGER PRIOR TO PURCHASE AND INSTALLATION.
- ALL OUTDOOR STEEL ITEMS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123
- ALL BOLTS AND HARDWARE TO BE STAINLESS STEEL UNLESS SPECIFICALLY REQUIRED TO BE OTHERWISE BY CODE OR CARRIER
- ANY DAMAGED GALVANIZING OR PAINT TO BE FIELD REPAIRED WITH 'COLD-GALV' OR APPROPRIATE PAINT UNDER CONDITIONS APPROVED BY PRODUCT MANUFACTURER.

- 5. GENERAL CABLING
 5.1. ALL INSTALLED CABLES SHALL HAVE SHEATHS (RISER / PLENUM / OUTDOOR / UV RESISTANT) APPROPRIATE FOR THE MOST RESTRICTIVE ENVIRONMENT WHICH THEY WILL TRAVERSE.
- ALL CABLING TO BE SUPPORTED AND LACED PER NEC, LOCAL REQUIREMENTS AND TO MEET CARRIER SPECIFICATIONS.
- MAINTAIN REQUIRED SEPARATION BETWEEN CONDUCTORS AND OTHER CABLES AS PRESCRIBED BY CARRIER SPECIFICATIONS AND BEST PRACTICES
- ALL FIRE, SMOKE OR DRAFT BARRIERS SHALL BE REPAIRED SUCH THAT THEY MAINTAIN THEIR INTENDED / REQUIRED RATINGS.
- ALL MEASUREMENTS SHOWN ON PLANS ARE TO ADD CONTRACTOR AND DO NOT INCLUDE ANY SLACK OR CABLE DRESSING LENGTH. ALL CABLE LENGTHS SHALL BE FIELD VERIFIED PRIOR TO ORDERING.

- 6.1 ELECTRICAL AND GROUNDING
 6.1. ALL INSTALLATIONS TO MAINTAIN REQUIRED CLEARANCES
- CONTRACTOR TO SIZE CONDUCTORS PER NEC AND CARRIER REQUIREMENTS AND UPSIZE AS REQUIRED TO MINIMIZE VOLTAGE DROP
- CONTRACTOR TO SIZE CONDUIT PER NEC
- CONTRACTOR TO BOND METALLIC ITEMS TO GROUNDING SYSTEM WITHIN SITE PER CARRIER REQUIREMENTS.

- 7. FIBER OPTICS:
 7.1. VERIFY SINGLE-MODE OR MULTI-MODE AND CONNECTOR TYPE ALL CABLES AND CONNECTORS TO BE PRE-APPROVED, OR AN
- EXCEPTION OBTAINED PRIOR TO PURCHASE AND INSTALLATION ALL FIBER STRANDS SHALL BE FUSION SPLICED THOUGHT OUT THE LENGTH OF THE RUN AND BE TERMINATED AT EACH END OF TRUNK UNLESS SPECIFICALLY NOTED
- ALL TERMINATIONS TO BE LANDED IN A BULKHEAD OR COILED AND PROTECTED IN A SPLICE CASE IF BULKHEAD IS SPACE CONSTRAINED.
- ALL SPLICES TO BE FUSION TYPE AND INDIVIDUAL SPLICES SHALL HAVE A LOSS OF LESS THAN 0.1 dB. ANY SPLICES WITH HIGHER LOSSES TO BE
- ALL FIBERS TO BE TESTED WITH OTDR AND POWER METER. OTDR AND OPTICAL LOSS REPORT PROVIDED IN CLOSEOUT PACKAGE.
- 7.7. ALL FIBER CABLING TO BE INSTALLED IN PROTECTIVE CABLE MANAGEMENT SYSTEMS, DUCT OR BE ARMORED CABLE WHERE TRAVERSING SHARED SPACE

8. COAX AND ANTENNAS

- ALL ANTENNA MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA-222 AND APPLICABLE LOCAL CODES
- ALL COAX TO BE INSTALLED PER CARRIER SPECIFICATIONS, SUPPORTED AT A MINIMUM OF EVERY 4'-0" IN PROPERLY SIZED BLOCKS OR OTHER COAX SUPPORTS U.N.O.
- ALL COAX TRAVERSING EXTERIOR WALLS SHALL BE PROTECTED ON INTERIOR SIDE WITH LIGHTNING SURGE SUPPRESSOR GROUNDED TO BUILDING GROUNDING SYSTEM OR STEEL (NOT LIGHTNING PROTECTION SYSTEM). PROVIDE COAX GROUND KIT AT ANTENNA AND AS REQUIRED BY CARRIER
- ALL COAX TERMINATIONS SHALL BE LOW PIM AND APPROVED BY CARRIER
- MAINTAIN MINIMUM BEND RADIUS AND SUPPORT CABLE AS NEEDED TO PROTECT CABLES FROM SAGGING, KINKING OR BEING CAUGHT
- ALL COAX TO BE SWEEP (DTF & RETURN LOSS) AND PIM TESTED WITH ASSING REPORTS PROVIDED TO CARRIER
- PROVIDE 50 OHM LOAD ON ALL UNUSED PORTS.
- WATERPROOF ALL EXTERIOR CONNECTIONS AND ANY OTHER CONNECTIONS EXPOSED TO MOISTURE OR CONDENSING ENVIRONMENTS WITH SELF AMALGAMATING BUYTAL TAPE WITH MINIMUM 1/2" OVERLAP.
- TORQUE ALL CONNECTIONS TO MANUFACTURER SPECIFICATIONS WITH APPROPRIATE TORQUE WRENCH.
- MOUNT GPS ANTENNA ON 1-1/4" SCH. 40 STEEL OR STAINLESS STEEL PIPE (MIN. 18"). GROUND PIPE WITH BURNDY GROUNDING CLAMP AND INSTALL WITHIN 2° OF VERTICAL

- 9. GENERAL FIBERGLASS REINFORCED PLASTIC NOTES:
- ALL FRP MATERIAL SHALL BE EXTREN SERIES 500 OR EQUIVALENT. ALL ADHESIVE SHALL BE PLEXUS METHACRYLATE ADHESIVE OR EQUIVALENT.
- ALL FRP CONNECTIONS SHALL BE FULL BONDED EACH SIDE WITH 3/8" PLATE AND MINIMUM (2) 3/8" TAPERED FLAT HEAD FRP SCREWS PER MEMBER
- ALL PANELS SHALL BE FULL BONDED W/ 3/8" PAN HEAD FRP SCREWS AT 12" O.C

10. GENERAL STEEL NOTES:

- CONTRACTOR TO PROVIDE FABRICATION AND ERECTION OF STRUCTURAL STEEL AND OTHER ITEMS AS SHOWN ON THE DRAWINGS OR REQUIRED BY OTHER SECTIONS OF THESE SPECIFICATIONS. REFERENCES:
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). MANUAL OF 10.2.1 STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (ASD).
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM). ASTM A36: STRUCTURAL STEEL 10.2.3.
- 10.2.4. ASTM A53: PIPE, STEEL BLACK AND HOT DIPPED, ZINC-COATED WELDED AND SEAMLESS
- ASTM A108: STEEL BARS, CARBON, COLD FINISHED, STANDARD 10.2.5 QUALITY.
- 10.2.6 ASTM A123: ZINC (HOT-DIPPED GALVANIZED) COATING ON IRON AND STEEL PRODUCTS.
- 10.2.7. ASTM A307: CARBON STEEL BOLTS AND STUDS, 60,000 P.S.I. TENSILE STRENGTH
- ASTM A325: HIGH-STRENGTH BOLT FOR STRUCTURAL STEEL JOINTS. ASTM A490; HEAT-TREATED, STRUCTURAL STEEL BOLTS, 150 (KSI) 10 2 9 (1035MPA) TENSILE STRENGTH.
- 10.2.10. ASTM A500: COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES.
- ASTM A563: CARBON AND ALLOY STEEL NUTS. ASTM B695: COATINGS OF ZINC MECHANICALLY DEPOSITED ON IRON AND STEEL.
- ASTM F436: HARDENED STEEL WASHERS. 10.2.13. ASTM F959: COMPRESSIBLE-WASHER-TYPE DIRECT TENSION
- INDICATOR FOR USE WITH STRUCTURAL FASTENERS.
- 10.2.14. AMERICAN WELDING SOCIETY (AWS): 10.2.14.1
- AWS A5.1: COVERED CARBON STEEL ARC WELDING ELECTRODES.
- 10.2.14.2. AWS A5.5: LOW ALLOY STEEL COVERED ARC WELDING ELECTRODES.
- 10.2.14.3. AWS D1.1: STRUCTURAL WELDING CODE - STEEL
- 10.2.14.4 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR ASTM A490 BOLTS." AS ENDORSED BY AISC.
- 10.2.15. STEEL STRUCTURES PAINTING COUNCIL (SSPC):
- 10.2.15.1. SSPC-SP3: POWER TOOL CLEANING.
- SSPC-PAINT 11: RED IRON OXIDE, ZINC CHROME, RAW LINSEED OIL OR ALKYD PAINT.

11. SUBMITTALS

- 11.1. SUBMIT THE FOLLOWING FOR APPROVAL:
- FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND ALL TOP STEEL
- WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.

12. STRUCTURAL STEEL

- SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A572, ANGLES SHALL CONFORM TO ASTM A36.
- STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B.

13. ANCHOR BOLTS:

ANCHOR BOLTS SHALL CONFORM TO ASTM A307 WITH HEAVY 13.1. HEXAGONAL NUTS.

14. BOLTS:

- COMMON (MACHINE) BOLTS SHALL CONFORM TO ASTM A307 GRADE A AND NUTS TO ASTM A563. ONE COMMON BOLT ASSEMBLY SHALL CONSIST OF A BOLT. A HEAVY HEX NUT AND A HARDENED WASHER
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325; ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY HEX NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST THE ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.

15. WELDING ELECTRODES:

WEI DING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS

16.1. PRIMER SHALL BE RED OXIDE-CHROMATE PRIMER COMPLYING WITH SSPC PAINT SPECIFICATION NO. 11.

17. FABRICATION:

- 17.1. SHOP FABRICATE AND ASSEMBLY MATERIALS AS SPECIFIED HEREIN.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH THE AISC-ASD SPECIFICATION, AND AS INDICATED ON THE APPROVED SHOP **DRAWINGS**
- ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER
- PROPERLY MARK AND MATCH-MARK MATERIALS FOR FIELD ASSEMBLY

AND FOR IDENTIFICATION AS TO LOCATION FOR WHICH INTENDED. FABRICATE AND DELIVER IN A SEQUENCE WHICH WILL EXPEDITE

ERECTION AND MINIMIZE FIELD HANDLING OF MATERIALS.

WHERE FINISHING IS REQUIRED, COMPLETE THE ASSEMBLY, INCLUDING THE WELDING OF UNITS BEFORE START OF FINISHING OPERATIONS. 17.6.1. PROVIDE FINISH SURFACE OF MEMBERS EXPOSED IN THE FINAL

STRUCTURE FREE FROM MARKINGS, BURNS, AND OTHER DEFECTS. PROVIDE CONNECTIONS AS SPECIFIED HEREIN:

17.6.3. PROVIDE BOLTS AND WASHERS OF TYPES AND SIZE REQUIRED FOR COMPLETION OF FIELD ERECTION. USE 3/4 INCH DIAMETER A325 BOLTS UNLESS NOTED OTHERWISE.

17.6.4. INSTALL HIGH STRENGTH THREADED FASTENERS IN ACCORDANCE WITH RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS "

WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE, QUALITY OF WELD, AND METHODS USED IN CORRECTING WELDED WORK

THE FABRICATOR SHALL FURNISH AND INSTALL ERECTION CLIPS 17.6.6 FOR FIT-UP OF WELDED CONNECTIONS.

17.6.7 DOUBLE ANGLE MEMBERS SHALL HAVE WELDED FILLERS SPACED IN ACCORDANCE WITH CHAPTER E4 OF THE AISC-ASD SPECIFICATION 17.6.8 GUSSET AND STIFFENER PLATES SHALL BE 3/8 INCH THICK MINIMUM PRIMING: 17.6.9.

STRUCTURAL STEEL SHALL BE PRIMED AS SPECIFIED HEREIN, 17.6.9.1. UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

17.6.9.2. STRUCTURAL STEEL SURFACE PREPARATION SHALL CONFORM TO SSPC-SP3, "POWER TOOL CLEANING." 17.6.9.3.

SURFACE PREPARATION AND PRIMER SHALL BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE AS INCLUDED IN THE ASD MANUAL OF STEEL CONSTRUCTION. 17.6.9.4. MATERIALS SHALL REMAIN CLOSED UNTIL REQUIRED FOR USE, MANUFACTURER'S POT-LIFE REQUIREMENTS SHALL BE

STRICTLY ADHERED TO. PRIMER SHALL BE APPLIED TO DRY, CLEAN, PREPARED SURFACE AND UNDER FAVORABLE CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER PRIMING SHALL NOT BE DONE WHEN AMBIENT TEMPERATURE IS LESS. THAN 50 DEGREE F. THE RELATIVE HUMIDITY IS MORE THAN 90 PERCENT, OR THE SURFACE TEMPERATURE IS LESS THAN 5

DEGREE F ABOVE THE DEW POINT GENERALLY ALL PRIMER SHALL BE SPRAY APPLIED. BRUSH OR ROLLER APPLICATION SHALL BE RESTRICTED TO TOUCHUP AND TO AREAS NOT ACCESSIBLE BY SPRAY GUN

17697 PRIMER SHALL BE UNIFORMLY APPLIED WITHOUT RUNS SAGS SOLVENT BLISTERS, DRY SPRAY OR OTHER BLEMISHES. ALL BLEMISHES AND OTHER IRREGULARITIES SHALL BE REPAIRED OR REMOVED AND THE AREA RE-COATED. SPECIAL ATTENTION SHALL BE PAID TO CREVICES, WELD LINES, BOLT HEADS, CORNERS, EDGES, ETC., TO OBTAIN THE REQUIRED NOMINAL FILM THICKNESS.

17698 THE DRY FILM THICKNESS OF THE PRIMER SHALL BE 2.0 MILS. IF THE PRIMER IS DAMAGED BY WELDING OR PHYSICAL ABUSE. 17.6.9.9. THE AREA SHALL BE TOUCHED UP AND REPAIRED. THE TOUCHUP PAINT SHALL BE COMPATIBLE WITH THE APPLIED PRIMER WITH MINIMUM DRY FILM THICKNESS OF 1.5 MILS.

17.6.10. INSTALLATION: INSTALLATION OF STRUCTURAL STEEL SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE."

17.6.10.2. STRUCTURAL FIELD WELDING SHALL BE DONE BY THE ELECTRIC SUBMERGED OR SHIFLDED METAL ARC PROCESS, WELDED CONSTRUCTION SHALL COMPLY WITH AWS D1.1.

PROVIDE ANCHOR BOLTS AND OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO ELEVATOR SHAFT WALLS AND OTHER IN-PLACE WORK. PROVIDE TEMPLATES AND OTHER DEVICES NECESSARY FOR PRESETTING BOLTS AND

ANCHORS TO ACCURATE LOCATIONS. 176104 SPLICE MEMBERS ONLY WHERE INDICATED ON THE DRAWINGS ANY GAS CUTTING TORCHES HAVE TO BE APPROVED IN 17.6.10.5.

WRITING BY THE PROJECT STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING BRACING WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY CONNECTIONS AND MEMBERS MEMBERS ARE IN PLACE AND THE FINAL COUNTRICE RYB

ALIGN AND ADJUST MEMBERS, AND OTHER SURFACES WHICH WILL BE IN THE PERMANENT CONTACT, BEFORE A SEMPLY OF CHIGH-STRENGTH BOLTS AS A MINIMUM, SHALL BE VICE OF CONTACT, BEFORE A SEMPLY OF CHICAGO. TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE LATEST AISC SPECIFICATION. ALL HIGH-STRENGTH BOLTS SPECIFIED DESIGN DRAWINGS TO BE USED IN PRETENSIONED OF

ALTERNATIVE DESIGN BOLT

SLIP-CRITICAL JOINTS SHALL BE TIGHTENED TO A BOLL TENSION NOT LESS THAN THAT GIVEN IN AISC TABLE 3.1. 1Not action 2 SHALL BE BY ANY OF THE FOLLOWING METH METHOD, A DIRECT-TENSION-INDICATOR, TWIST-OFF-TYPE TENSION-CONTROL BOLT, CALIBRATED WRENCH, OR

MOUNTAIN **WIRELESS**

927 SALIDA WAY

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SITE NAME: STEAMBOAT SKI AREA GONDOLA BASE

SITE ADDRESS:

2305 MOUNT WERNER CIR STEAMBOAT, CO 80487

> PROJECT: **GONDOLA RELO**

CONSTRUCTION

ISSUE DATE: 9/27/2021

> **GENERAL** NOTES