City of Puyallup **Development Engineering APPROVED**

City of Puyallup

conditions.

NComstock

04/14/2023

1:22:40 PM

See permit for additional requirements.

> Linda Lian 02/23/2023



Planning PRCTI20230195 Division APPROVED

AT&T

SITE ID: TA48

SITE NAME: DOWNTOWN PUYALLUP

SITE ADDRESS: 110 9TH AVENUE SOUTHWEST

PUYALLUP, WA 98371 THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST

COUNTY: PIERCE

BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY

PACE #:

FULL SIZED LEDGIBLE COLOR PLANS ARE

ACCESSIBLE LOCATION.

PROJECT

RFDS ID: 4438988 ISSUE DATE: 03/26/2021 REVISION: 1.00 UPDATED BY: jx615k

THE SCOPE OF WORK WILL BE COMPRISED OF:

DATE/TIME UPDATED: 4/25/2022 7:08:54 PM

SHEET #

JURISDICTION: CITY OF PUYALLUP, WE ADUITED TO BE PROVIDED BY THE FOR INSPECTION

DESCRIPTION

GROUND SCOPE OF WORK

REMOVE (1) UMTS CABINET

INSTALL (13) RECTIFIERS

MRWOR059642

MRWOR058840

REMOVE (1) 2-48V CONVERTER SHELVES & WIRES

REMOVE (1) ABIL AND (1) ASIK BASEBAND

REMOVE (1) PP AND (1) BATTERY CABINET REMOVE (6) DIPLEXER

INSTALL (3) ABIO AND (1) ASIL BASEBAND

INSTALL (1) EMERSON NETSURE 512

INSTALL (1) -48V POWER PLANT

City of Puyallup

ACCEPTED

Montgomery

03/13/2023

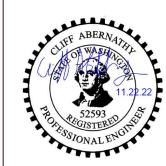






IRVING, TEXAS 75038

I /			•
		SUBMITTALS	
REV	DATE	DESCRIPTION	BY
А	05/13/2022	90% CD	PSK
В	06/28/2022	90% CD	JAC
С	09/17/2022	90% CD	GOP
D	10/18/2022	90% CD	ROS
0	11/16/2022	100% CD	MVF



PROJECT TITLE

SITE ID: TA48

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

EXISTING 65'-6"

SHEET DESCRIPTION

TITLE SHEET

SHEET NO.

PROJECT INFORMATION

DOWNTOWN PUYALLUP SITE NAME

10102328 USID: 44225

SITE ADDRESS: 110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

39'-0"± AMSI

ROOF TOP

65'-6'

COUNTY PIERCE

0420331121

CITY OF PUYALLUP, WA JURISDICTION: ZONING: FAIR

LATITUDE (NAD83):

47° 11' 01.5" N LONGITUDE (NAD83): 122° 17' 47.5" W

GROUND ELEVATION:

BUILDING HEIGHT:

APPLICANT:

AT&T WIRELESS 200 NORTH WARNER RD. KING OF PRUSSIA, PA 19406 MATTHEW MCGURK MM440D@ATT.COM

110 9TH AVE SW

IRVING, TX 75038

MIKE MOORE

GROUP U

1-855-669-5421

UNKNOWN

UNKNOWN

PUYALLUP, WA 98371

WESTERN WASHINGTON FAIR ASSN

1825 W. WALNUT HILL LANE, STE#120

PROPERTY OWNER:

5G NR 1SR CBAND

ADDRESS

CONTACT: PHONE: EMAIL:

CONSTRUCTION TYPE:

USE GROUP: OCCUPANCY TYPE:

ADA COMPLIANCE

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

MIKE.MOORE@TRYLON.COM

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE: NO SANITARY SEWER SERVICE, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED, NO COMMERCIAL SIGNAGE AND NO LANDSCAPING IS PROPOSED.

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR A 11"X17" SET. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CODE COMPLIANCE

all work & materials shall be performed & installed 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 t

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL MECHANICAL CODE
- 2018 LINTFORM PLUMBING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 WASHINGTON STATE ENERGY CODE 2016 NEPA STANDARD 72

Know what's below

2016 NFPA STANDARD 13, 13-D, AND 13-R

Call before you dig. WORKING DAYS NOTH BEFORE YOU EXCAVA

OLL FREE: 1-800-424-5555 OR

City of Puyallup ISSUED PERMIT Building Planning Engineering Public Works Fire

SITE LOCATION

VICINITY MAP

AERIAL MAP SITE LOCATION

APPROVALS MASTEC (PM RF ENGINEER SITE ACQUISITION: LANDLORD:

TOWER SCOPE OF WORK REMOVE (3) SBNHH-1D65C ANTENNAS REMOVE (3) 742-265 ANTENNAS REMOVE (3) 80010892-V01 ANTENNAS REMOVE (6) LGP21401 TMAS INSTALL (3) NEW AEOK+AEOU STACKED ANTENNAS INSTALL (3) NEW CMA-UBTULBULBHH-6517-17-21-21 INSTALL (1) DC TRUNK INSTALL (1) FIBER TRUNK INSTALL (1) DC6-48-60-0-1B-01 SOUID INSTALL (2) ANTENNA MOUNT <u>NOTE:</u> THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY, AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN

TITLE SHEET 0 GENERAL NOTES 0 ELECTRICAL NOTES 0 C-1 STTF PLAN 0 C-2 TO C-2.1 EQUIPMENT LAYOUT 0 **ELEVATION VIEWS** 0 ANTENNA LAYOUT 0 C-5 TO C-5.1 ANTENNA SCHEDULE 0 0 C-6 DETAILS 0 C-7 DETAILS Ω **DETAILS** RF-1 RF PLUMBING DIAGRAM 0 G-1 GROUNDING DIAGRAM 0 G-2 GROUNDING DETAILS 0 SEE PAGES 81-90 FOR

STRUCTURAL ENGINEER

MOUNT REINFORCEMENT

CALCULATIOS.

DRAWINGS IN STRUCTURAL

RFDS

SHEET INDEX

DESCRIPTION

	IN SECURITION AND DESCRIPTION	1
DATE:	J	\vdash

REVISION #

FA#: 10102328

STADIUM BUILDING

T-1

- NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE THE CONSTRUCTION MANAGER
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND STANDARD CED-STD-10253. INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON TOWER SITE" AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, , AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT,
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND
- DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

 NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND.

 FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION AT&T MOBILITY CARRIER: TOWER OWNER: UNKNOWN
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

 THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT
- INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

 SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL
- INSTALLATIONS AS INDICATED ON THE DRAWINGS.
 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND AT&T PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT
- CONTRACTOR'S EXPENSE TO THE SATISFACTION OF AT&T
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

PRCTI20230195

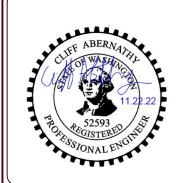






1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

		SUBMITTALS	
REV	DATE	DESCRIPTION	BY
Α	05/13/2022	90% CD	PSK
В	06/28/2022	90% CD	JAC
С	09/17/2022	90% CD	GOP
D	10/18/2022	90% CD	ROS
0	11/16/2022	100% CD	MVF
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PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

> EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

GENERAL NOTES

SHEET NO.

N-1

Development & Po	City of Puyallup evelopment & Permitting Servic ISSUED PERMIT						
Building	Planning						
Engineering	Public Works						
Fire OF W	Traffic						

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL FI ECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING
 THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY
 ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT
 CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN
 ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR—CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
 ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP FDGES
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR,
- TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
 POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE
 MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN,
 THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN
- ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED
- FOR CONCEALED INDOOR LOCATIONS.

 SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED
- INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED
- COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY)
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- 24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY—COATED OR NON—CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR
- LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

 THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR AT&T BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
 ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS
- NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
 THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE
- GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED
- TO THE BRIDGE AND THE TOWER GROUND BAR. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE
- BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2
- BARE SOLID TINNED COPPER GROUND CONDUCTOR.
 GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL
- 20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2
 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS

PRCTI20230195

COND	UCTOR COL	OR CODE	
SYSTEM	CONDUCTOR	COLOR	
	A PHASE	BLACK	
120/240V, 1Ø	B PHASE	RED	
120/2400, 19	NEUTRAL	WHITE	
	GROUND	GREEN	
	A PHASE	BLACK	
	B PHASE	RED	
120/208V, 3Ø	C PHASE	BLUE	
	NEUTRAL	WHITE	
	GROUND	GREEN	
	A PHASE	BROWN	
	B PHASE	ORANGE OR PURPLE	
277/480V, 3Ø	C PHASE	YELLOW	
	NEUTRAL	GREY	
	GROUND	GREEN	
DC VOLTAGE	POS (+)	RED**	
DC VOLIAGE	NEG (-)	BLACK**	

** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

ANTENNA EXISTING FACILITY INTERFACE FRAME GENERATOR GLOBAL POSITIONING SYSTEM GLOBAL SYSTEM FOR MOBILE GSM LTE LONG TERM EVOLUTION MASTER GROUND BAR MW MICROWAVE (N) NEC NATIONAL ELECTRIC CODE PROPOSED POWER PLANT OTY QUANTITY RECTIFIER RADIO BASE STATION REMOTE ELECTRIC TILT RBS RET RADIO FREQUENCY DATA SHEET REMOTE RADIO HEAD REMOTE RADIO UNIT RRH RRU SIAD TMA TYP SMART INTEGRATED DEVICE TOWER MOUNTED AMPLIFIER

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

APWA UNIFORM COLOR CODE:

TYPICAL

WORK POINT

WHITE PROPOSED EXCAVATION TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS POTABLE WATER PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY LINES

SEWERS AND DRAIN LINES

City of P Development & Pe ISSUED	
Building	Planning
Engineering	Public Works
Fire	Traffic



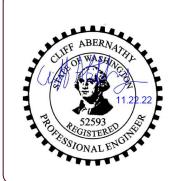
MasTec

22263 68TH AVENUE SOUTH



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

igspace		SUBMITTALS	
REV	DATE	DESCRIPTION	BY
Α	05/13/2022	90% CD	PSK
В	06/28/2022	90% CD	JAC
С	09/17/2022	90% CD	GOP
D	10/18/2022	90% CD	ROS
0	11/16/2022	100% CD	MVF



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

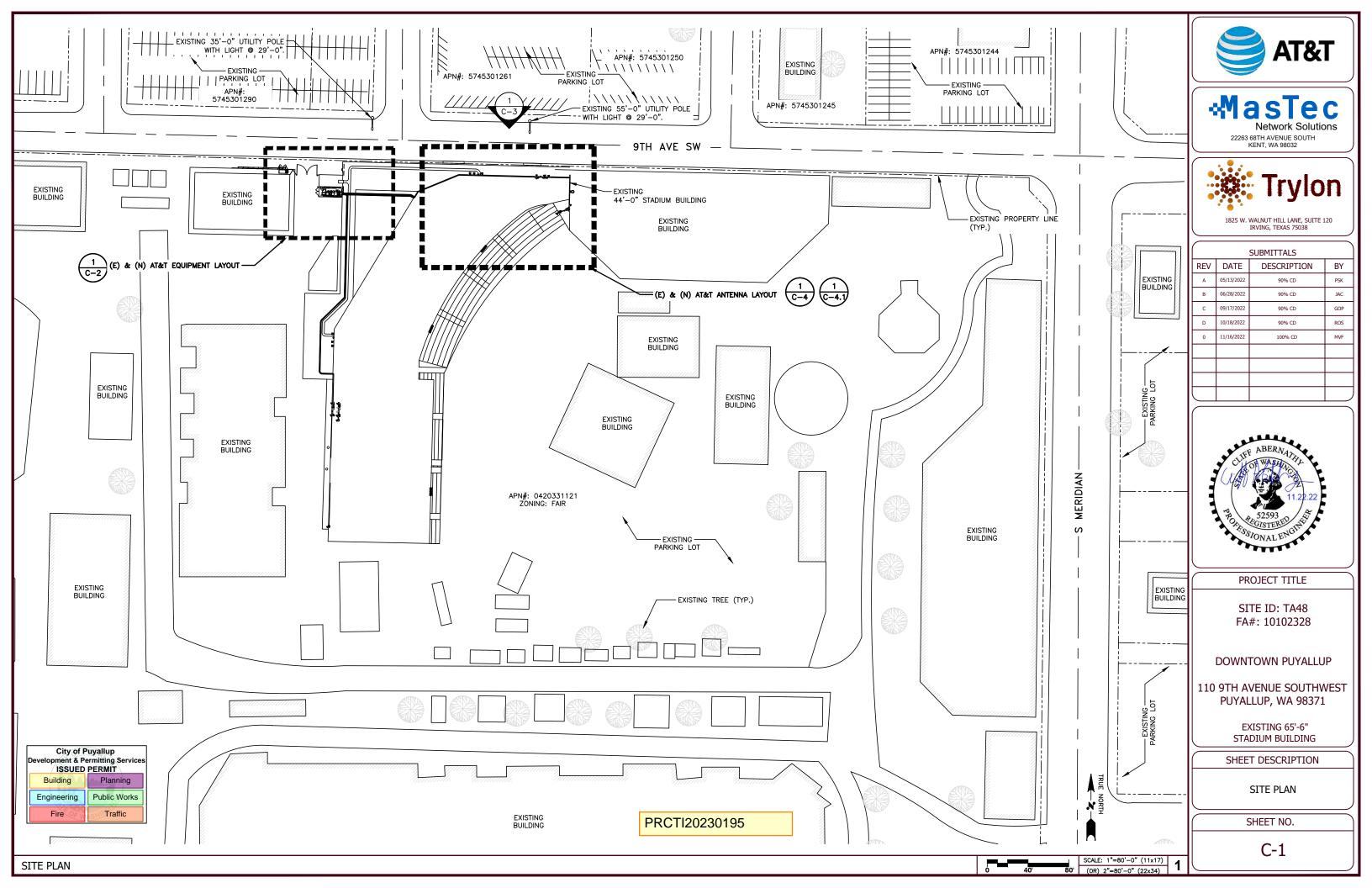
> EXISTING 65'-6" STADIUM BUILDING

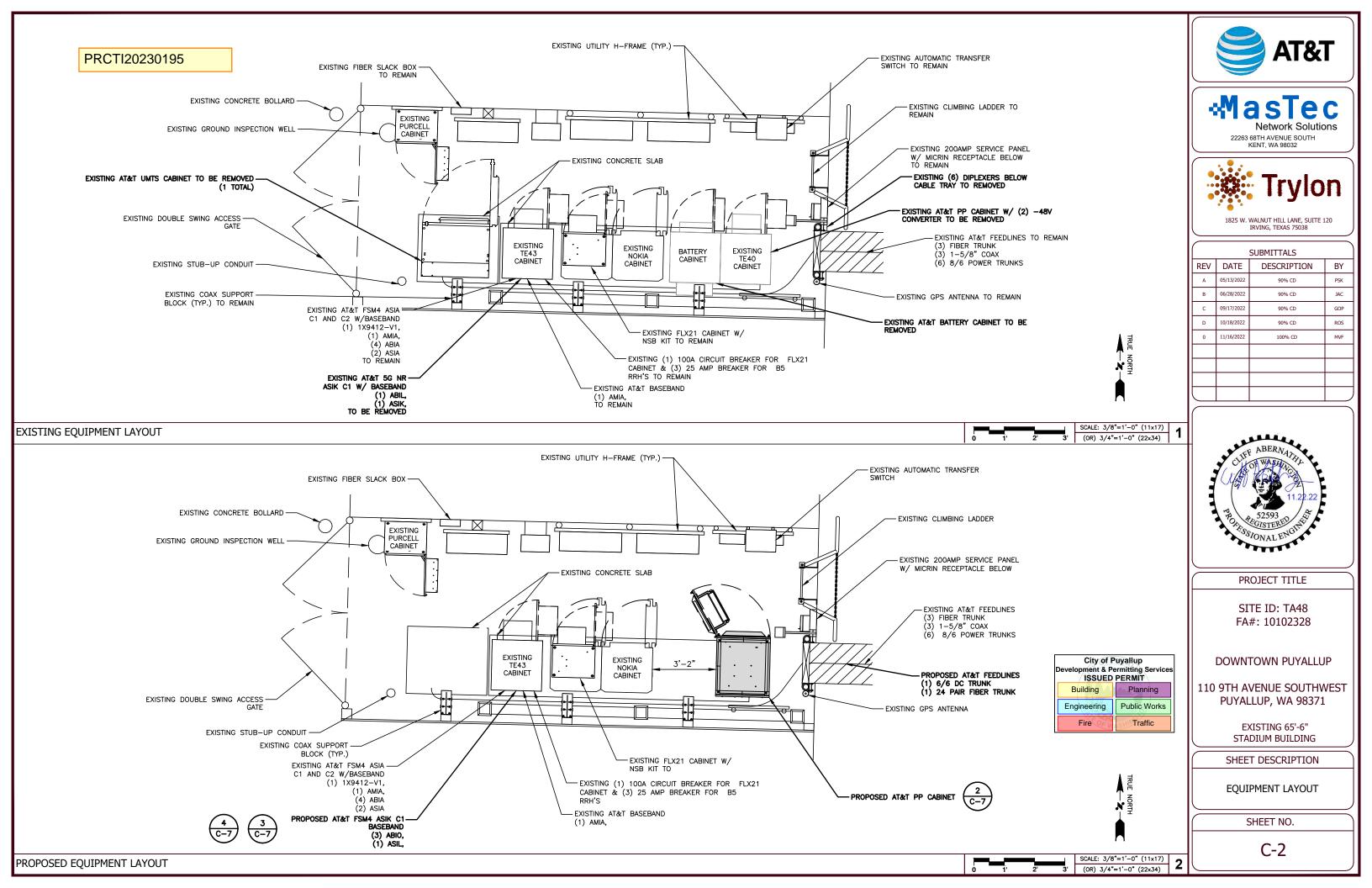
SHEET DESCRIPTION

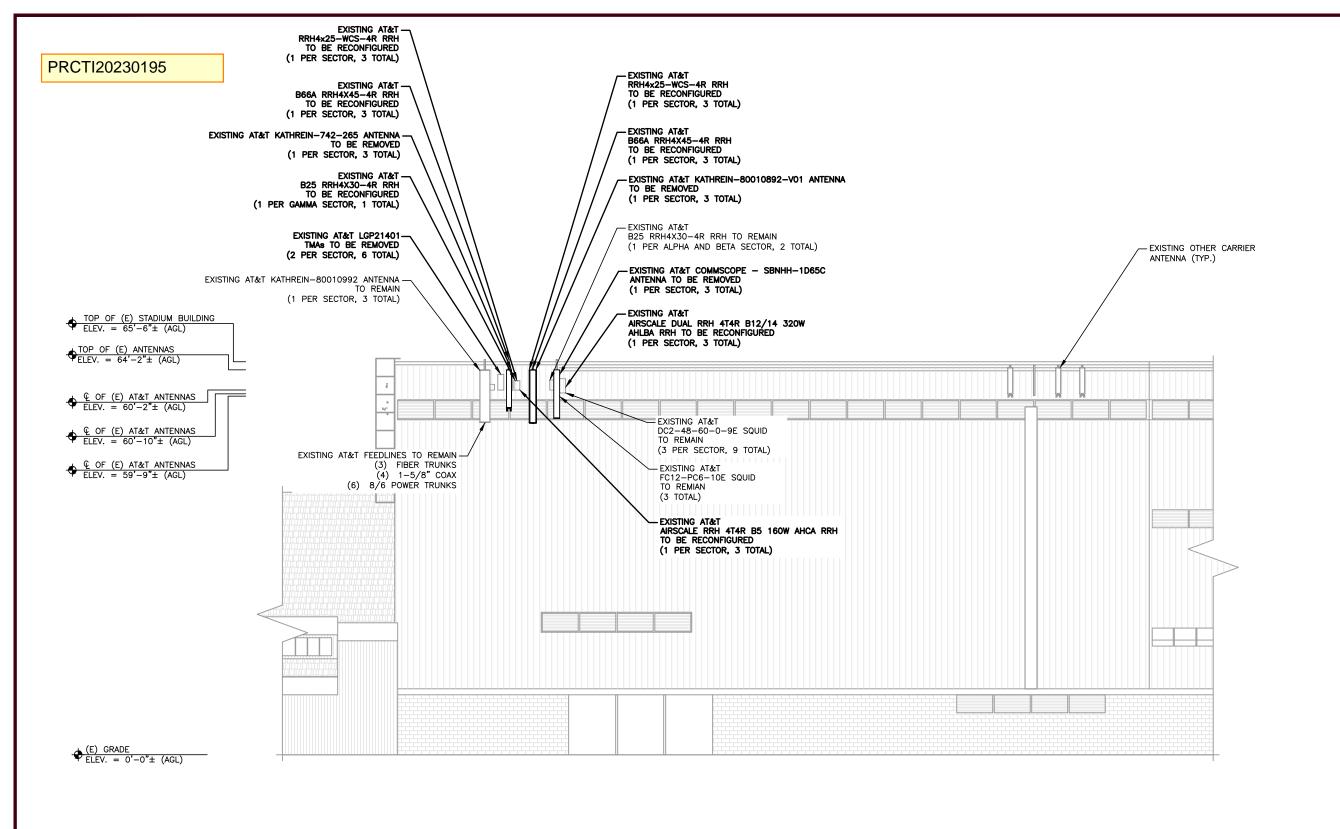
ELECTRICAL NOTES

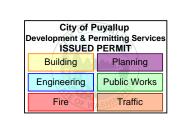
SHEET NO.

N-2









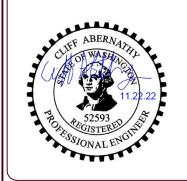


**MasTec Network Solutions 22263 68TH AVENUE SOUTH



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

A 05/13/2022 90% CD	SUBMITTALS		
	DESCRIPTION BY	DATE	REV
B 06/28/2022 90% CD	90% CD PSK	05/13/2022	А
	90% CD JAC	06/28/2022	В
C 09/17/2022 90% CD	90% CD GOP	09/17/2022	С
D 10/18/2022 90% CD	90% CD ROS	10/18/2022	D
0 11/16/2022 100% CD	100% CD MVF	11/16/2022	0



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

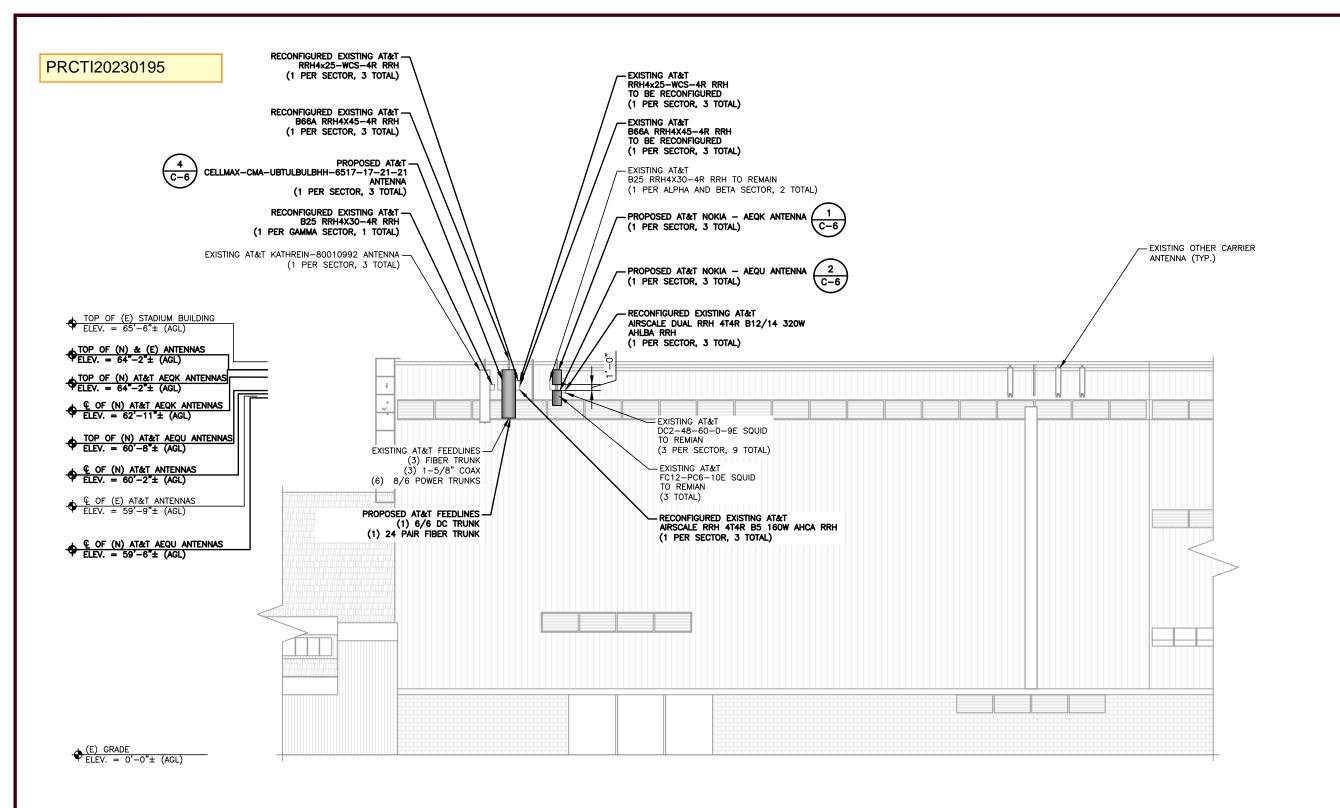
ELEVATION VIEWS

SHEET NO.

C-3

SCALE: 1/16"=1'-0" (11x17)

4' 8' 16' (OR) 1/8"=1'-0" (22x34)



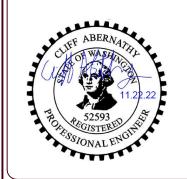


**MasTec Network Solutions 22263 68TH AVENUE SOUTH



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

		SUBMITTALS	
REV	DATE	DESCRIPTION	BY
А	05/13/2022	90% CD	PSK
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D	10/18/2022	90% CD	ROS
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PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

EXISTING 65'-6" STADIUM BUILDING

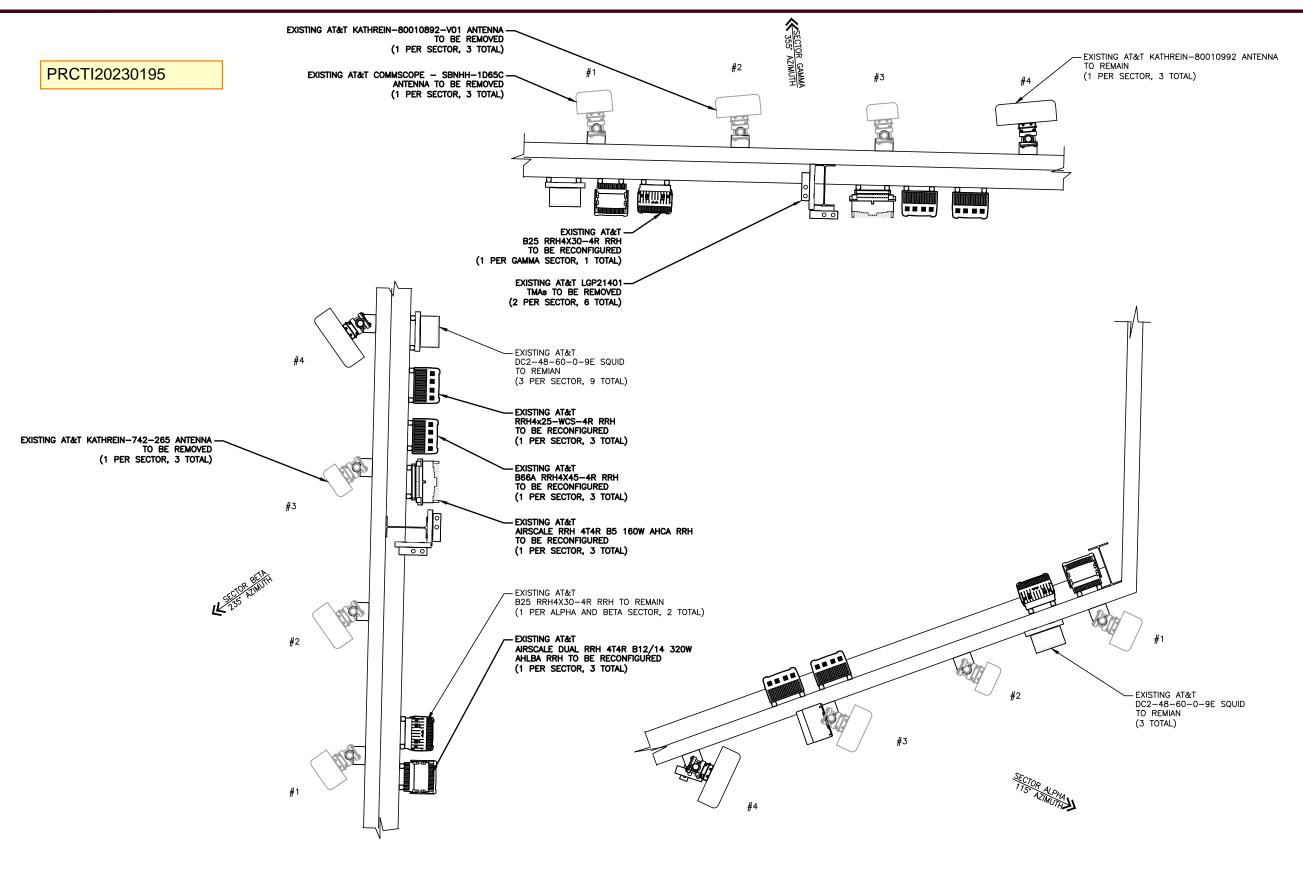
SHEET DESCRIPTION

ELEVATION VIEWS

SHEET NO.

C-3.1

City of Puyallup
evelopment & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic





RUE NORTH

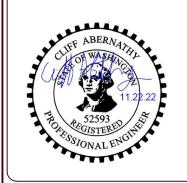






1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

		SUBMITTALS	
REV	DATE	DESCRIPTION	BY
Α	05/13/2022	90% CD	PSK
В	06/28/2022	90% CD	JAC
С	09/17/2022	90% CD	GOP
D	10/18/2022	90% CD	ROS
0	11/16/2022	100% CD	MVF



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

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SHEET DESCRIPTION

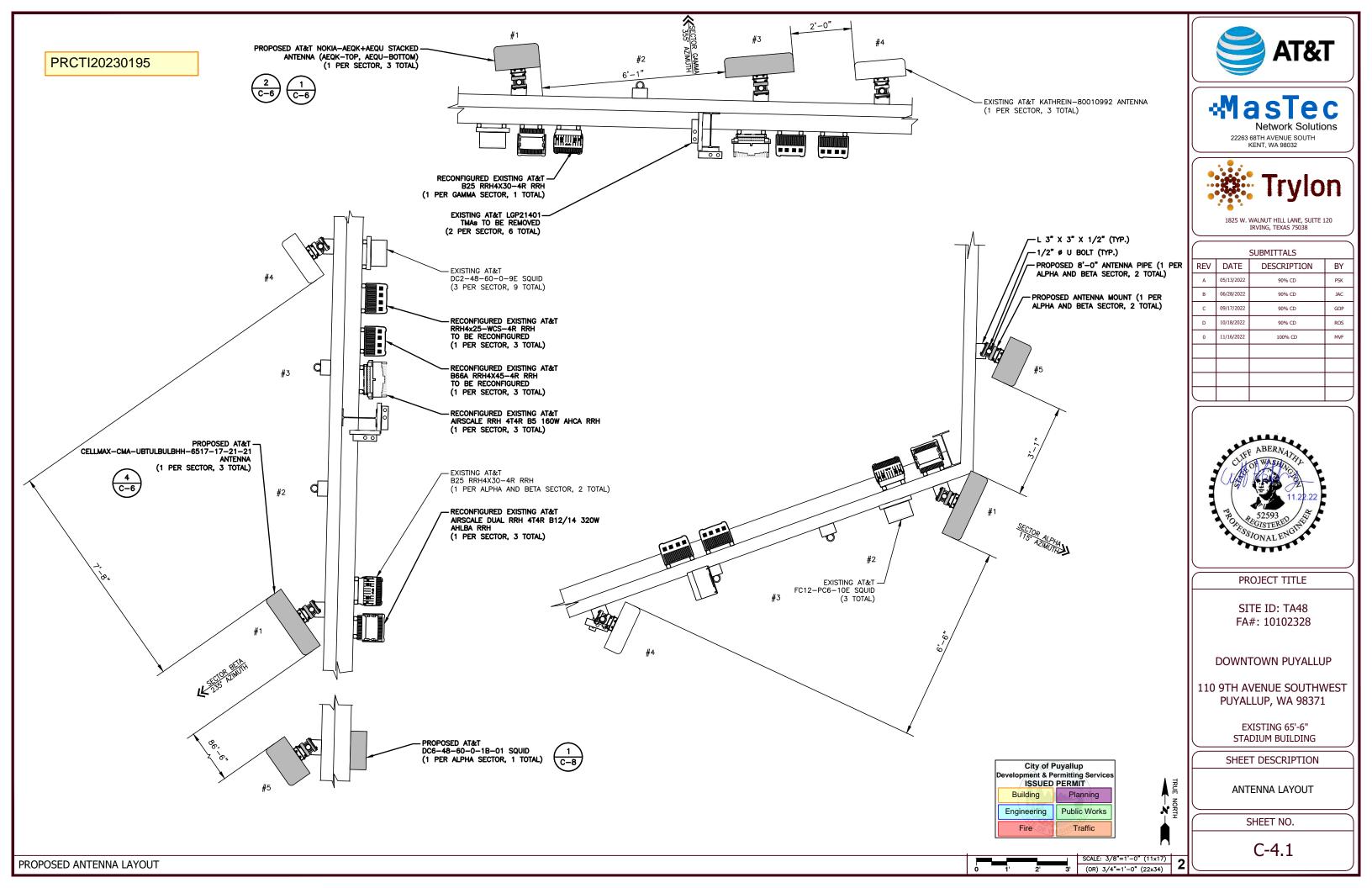
ANTENNA LAYOUT

SHEET NO.

C-4

SCALE: 3/8"=1'-0" (11x17)

1' 2' 3' (OR) 3/4"=1'-0" (22x34)



						EXISTING ANT	ENNA SCHEDULE				
SECTOR	ANTENNA POSITION	ANTENNA MAKE/MODEL	RAD CENTER	AZIMUTH	M-TILT	E-TILT	RRH & TMA MAKE/MODEL	BOX/SQUID/TMAs	FEEDLINE	FEEDLINE LENGTH	
	#1	(E) COMMSCOPE - SBNHH-1D65C	60'-2"	115°	0*	2*/2*/2*/2*	(1) (E) B25 RRH4X30-4R	-			
	#2	(E) KATHREIN-742-265	60'-10"	115°	0,	8°/8°/2°/2°	-	(2) (E) LGP21401	(6) 8/6 POWER TRUNKS	400'-0"	
ALPHA	#3	(E) KATHREIN-80010892-V01	59'-9"	115*	o	1.5°/1.5° /4°/4°/4°/4°/ 2.5°/2.5°/2.5°/2.5°	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45-4R (1) (E) RRH4X25-WCS-4R	(3) (E) FC12-PC6-10E	(3) FIBER TRUNKS (4) 1–5/8" COAX		- 00 -0
	#4	(E) KATHREIN-80010992	59'-9"	115 °	0°	4*/4*/4*	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	(3) (E) DC2-48-60-0-9E			
	#1	(E) COMMSCOPE - SBNHH-1D65C	60'-2"	235°	0°	2/2/2/2	(1) (E) B25 RRH4X30-4R	-			
BETA	#2	(E) KATHREIN-80010892-V01	60'-10"	235*	0°	6°/6°/5°/5°	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45—4R (1) (E) RRH4X25—WCS—4R	-	(4) 1-5/8" COAX	(4) 1-5/8" COAX 340'-0"	
	#3	(E) KATHREIN-742-265	59'–9"	235*	O*	4*/4*/2.5*/2.5*/2.5* /2.5*/2.5*/2.5*/ 2.5*/2.5*	-	(2) (E) LGP21401			
	#4	(E) KATHREIN-80010992	59'-9"	235°	0°	8.\8.\8.\8.	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	(3) (E) DC2-48-60-0-9E			
	#1	(E) COMMSCOPE - SBNHH-1D65C	60'-2"	355°	0*	0/0/0/0	(1) (E) B25 RRH4X30-4R	-			
GAMMA	#2	(E) KATHREIN-80010892-V01	60'-10"	355°	0*	6'/6'/3'/3'	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45—4R (1) (E) RRH4X25—WCS—4R	-	(4) 1-5/8" COAX	280'-0"	
	#3	(E) KATHREIN-742-265	59'-9"	355°	0°	1.5°/1.5°/2.5°/2.5°/ 2.5°/2.5°/2.5°/ 2.5°/2.5°	_	(2) (E) LGP21401	(1) 1 0) 0 00nA	255 5	
	#4	(E) KATHREIN-80010992	59'-9"	355°	0,	1'/1'/1'/1'	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	(3) (E) DC2-48-60-0-9E			

City of Puyallup Development & Permitting Services ISSUED PERMIT							
Building	Planning						
Engineering	Public Works						
Fire OF W	Traffic						

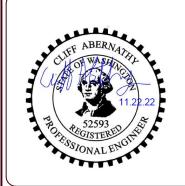


Network Solutions
22263 68TH AVENUE SOUTH
KENT, WA 98032



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

SUBMITTALS						
REV	DATE	DESCRIPTION	BY			
А	05/13/2022	90% CD	PSK			
В	06/28/2022	90% CD	JAC			
С	09/17/2022	90% CD	GOP			
D	10/18/2022	90% CD	ROS			
0	11/16/2022	100% CD	MVF			



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

> EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

ANTENNA SCHEDULE

SHEET NO.

C-5

EXISTING ANTENNA SCHEDULE

NTS

PRCTI20230195

						PROPOSED	ANTENNA SCHEDULE			
SECTOR	ANTENNA POSITION	ANTENNA MAKE/MODEL	RAD CENTER	AZIMUTH	M-TILT	E-TILT	RRH & TMA MAKE/MODEL	BOX/SQUID/TMAs	FEEDLINE	FEEDLINE LENGTH
	#1	(N) CELLMAX — CMA-UBTULBULBHH-6517-17-21-21	60'-1"	115 °	0°	4°/4°/4°/ 2°/2°/2°/2°	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA (1) (E) B25 RRH4X30-4R	(3) (E) DC2-48-60-0-9E		
ALPHA	#2	-	_	_	_	-	-	-		400'-0"
	#3	-	_	_	_	-	-	-	(E) (6) 8/6 POWER TRUNKS	
	#4	(E) KATHREIN — 80010992	59'-9"	115°	0°	2'/2'/2'/2'/ 4'/4'/4'/4'/ 3'/3'/3'/3'/	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45—4R (1) RRH4X25—WCS—4R	(3) (E) FC12-PC6-10E	(E) (3) FIBER TRUNKS (E) (4) 1–5/8" COAX	
	# 5	(N) NOKIA – AEQK+AEQU STACKED	AEQK 62'-11" AEQU 59'-6"	115°	0.	0/0/0/0	INTEGRATED	-		
	#1	(N) CELLMAX - CMA-UBTULBULBHH-6517-17-21-21	60'-1"	235°	o	8'/8'/8'/8'/ 2'/2'/2'/2'	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA (1) (E) B25 RRH4X30-4R	(3) (E) DC2-48-60-0-9E	(E) (4) 1-5/8" COAX (N) (1) 6/6 DC TRUNK (1) 24 PAIR FIBER TRUNK	
BETA	#2	-	_	_	-	-	_	-		
	#3	-	_	-	-	-	-	-		
	#4	(E) KATHREIN — 80010992	59'-9"	235 °	o.	4*/4*/4*/ 2.5*/2.5*/2.5*/ /8*/8*/8*	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45—4R (1) RRH4X25—WCS—4R	-		
	# 5	(N) NOKIA – AEQK+AEQU STACKED	AEQK 62'-11" AEQU 59'-6"	235°	0.	0/0/0/0	INTEGRATED	(1) (N) DC6-48-60-0-1B-01		
	#1	(N) NOKIA – AEQK+AEQU STACKED	AEQK 62'-11" AEQU 59'-6"	355 °	o.	0/0/0/0	INTEGRATED	-		
GAMMA	#2	-	-	-	-	-	_	-		2021 27
	#3	(N) CELLMAX - CMA-UBTULBULBHH-6517-17-21-21	60'-1"	355 °	O.	2°/2°/2°/2°/ 1°/1°/1°/1°	(1) (E) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA (1) (E) B25 RRH4X30-4R	(3) (E) DC2-48-60-0-9E	(E) (4) 1-5/8" COAX	280'-0"
	#4	(E) KATHREIN – 80010992	59'-9"	355°	0.	2/2/2/2/ 2.5*/2.5*/2.5*/2.5*/ 2.5*/2.5*/2.5*/2.5*	(1) (E) AIRSCALE RRH 4T4R B5 160W AHCA (1) (E) B66A RRH4X45—4R (1) RRH4X25—WCS—4R	-		
	# 5	-	-	-	-	-		-		

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building Planning				
Engineering	Public Works			
Fire Five State Traffic				

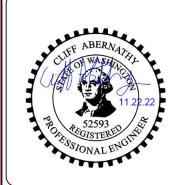


Network Solutions
22263 68TH AVENUE SOUTH
KENT, WA 98032



1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

SUBMITTALS							
REV	DATE	DESCRIPTION	BY				
А	05/13/2022	90% CD	PSK				
В	06/28/2022	90% CD	JAC				
С	09/17/2022	90% CD	GOP				
D	10/18/2022	90% CD	ROS				
0	11/16/2022	100% CD	MVF				



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

> EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

ANTENNA SCHEDULE

SHEET NO.

C-5.1

PRCTI20230195

AEQK AirScale MAA 64T64R 192AE n77 200W

Preliminary Technical datasheet

Telliminary recrimical o	Jatasileet
Specification ¹	Details
Standard	3GPP n77 & FCC NR compliant
Band / Frequency range	3700~3980MHz
Max. supported modulation	256QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16 per carrier (with eCPRI)
Instantaneous bandwidth IBW	200MHz; (280MHz in split mode)
Occupied bandwidth OBW	100MHz; (100MHz + 100MHz in split mode)
Total average EIRP	77.5 dBm
Max. output power per TRX	3.125 W / TRX (200 W total)
Effective Isotropic Sensitivity	-122 dBm
Dimensions	750 x 450 x 242 mm (H x W x D) 29.53 x 17.72 x 9.53 in
Weight	45kg w/o bracket 99.21 lbs
Supply voltage / Connector type	DC -40.5 V57V / 2 pole connector
Power consumption	750W typical (75% DL duty cycle, 30% RF load) 1050W max (75% DL duty cycle, 100% RF load)
Optical ports	2xSFP28, 9.8G CPRI or 10/25GE eCPRI
Other interfaces / Connector type	LMI / HDMI, RF monitor port / SMA, Control AISG, External Alarms / MDR26, status LEDs
Operational temperature range	-40C to +55C (without solar load)
Cooling	Natural convection cooling
Installation options	Pole, wall, with vertical adjustment of ±15°
Ingress / Surge protection	IP65/Class II 20KA
17 © 2020 Nokia Supported RAT	NR
	Confidential



AEQU AirScale MAA 64T64R 192AE n78 200W

Technical data (Preliminary) Redmond Lab – January 2022

	1 . 6 . 6
	roduct Specifications
Standard	3GPP/FCC, TDD
Supported RAT by HW	5G
Band / Frequency range	3450 - 3550 MHz
Max. supported modulation	256 QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16
Instantaneous bandwidth IBW	100 MHz
Occupied bandwidth OBW	100 MHz
Total average EIRP	77.5dBm
Max. output power per TRX	3.125 W / TRX (200W total)
Dimensions / Volume	750 x 450 x 240 mm (H x W x D) / 71.7 29.53 x 17.72 x 9.45 in
Weight	45kg w/o bracket 99.21 lbs
Supply voltage / Connector type	DC -40.5 V57V / 2 pole connector
Power consumption	730 W (75% DL duty cycle, ETSI 24h average load)
Optical ports	2 x SFP28, 10/25GE eCPRI
Other interfaces / Connector type	AISG / RS-485, EAC (6 alarms + 1 control) / MDR26, RF Monitor Port/SMA, 4 status LEDs
Operational temperature range	-40 °C +55 °C
Cooling	Natural convection cooling
Installation options	Pole / Wall, ± 15° mechanical vertical tilt
Ingress / Surge protection	IP65 / Class II 20 kA
ingress / Surge protection	IP65 / Class II 20 kA



- 5G Adaptive Antenna System for optimized capacity and coverage
- Beamforming capable 64T64R with total 200W output power



AEQU 476085A NOKIA



N.T.S.

<u></u>

REV

DATE 05/13/202

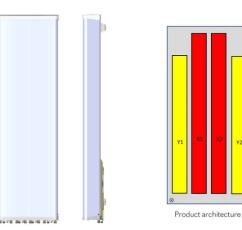
06/28/2022

11/16/2022

NOKIA AEQK ANTENNA DETAIL

N.T.S.

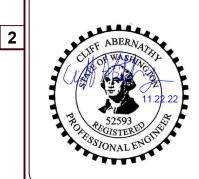
NOKIA AEQU ANTENNA DETAIL



Mechanical specification:	
Connectors	8 x 4.3 -10 female
Connector position	Bottom
Lightning protection	DC grounded
Height mm (inch)	2450 (96.5)
Width mm (inch)	690 (27.2)
Depth mm (inch)	196 (7.7)
Antenna weight kg (lb)	47 (104)

City of Puyallup oment & Permitting Servi ISSUED PERMIT Building Planning Engineering Public Works Traffic





AT&T

MasTec

22263 68TH AVENUE SOUTH KENT, WA 98032

1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

SUBMITTALS

DESCRIPTION

90% CD

100% CD

JAC

PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

> EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

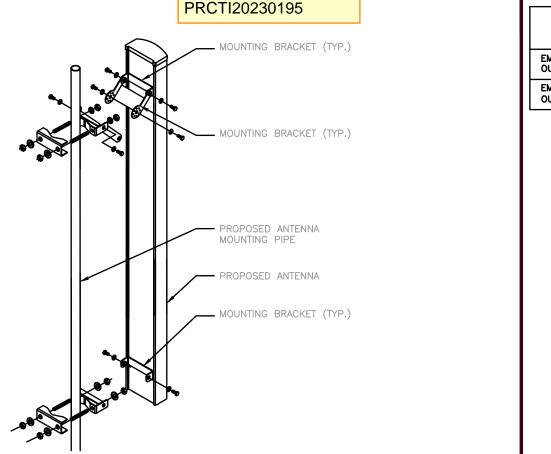
DETAILS

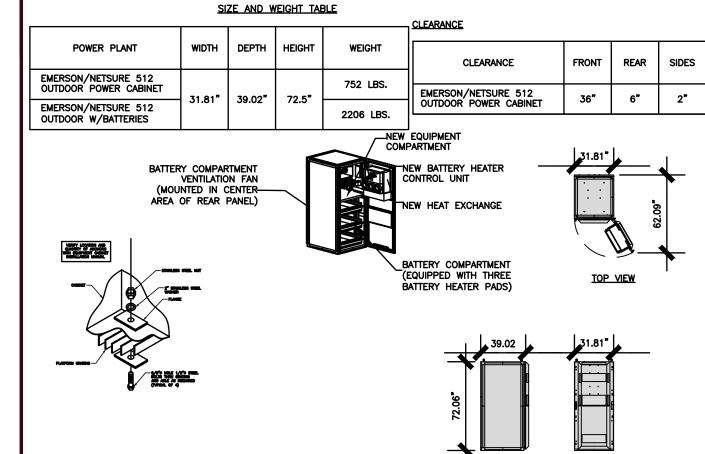
SHEET NO.

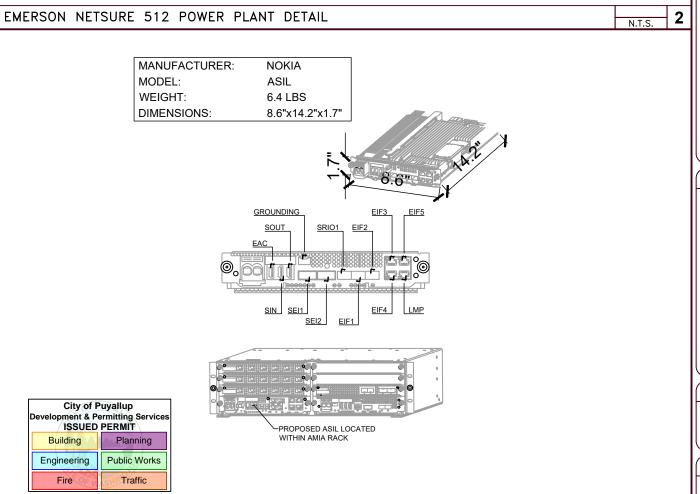
C-6

NOT USED

CMA-UBTULBULBHH-6517-17-21-21 DETAIL







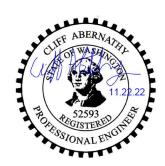
EMERSON NETSURE 512 POWER PLANT



MasTec 22263 68TH AVENUE SOUTH KENT, WA 98032



SUBMITTALS						
REV	DATE	DESCRIPTION	BY			
Α	05/13/2022	90% CD	PSK			
В	06/28/2022	90% CD	JAC			
С	09/17/2022	90% CD	GOP			
D	10/18/2022	90% CD	ROS			
0	11/16/2022	100% CD	MVF			



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> EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

DETAILS

SHEET NO.

C-7

ABIO BASEBAND DETAIL

ANTENNA MOUNTING DETAIL

MANUFACTURER:

MODEL:

WEIGHT:

DIMENSIONS:

NOKIA

ABIO

RF2

RF3

PROPOSED ABIO LOCATED

WITHIN AMIA RACK

RF4 RF5

4.6 LBS

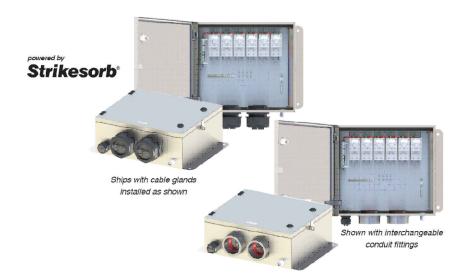
8.6"x14.2"x1.1"

ASIL BASEBAND DETAIL

Building

Engineering

PRCTI20230195



lectrical	
Model Number	DC6-48-60-0-1B-01
CEQ / ANT Number	CEQ. 10279
Number of Circuits Protected	6
Surge Protective Device (SPD) Type per UL 1449 4th Edition	Type 2
Surge Protection Class as per IEC 61643-11	Class I
Nominal Operating DC Voltage [Un]	48 V
Nominal Discharge Current [In] per UL 1449 3rd Edition	20 kA 8/20 μs
Maximum Surge Current [I _{max}] per IEC 61643-11	60 kA 8/20 μs
Maximum Impulse (Lightning) Current [I _{mp}] per IEC 61643-11	5 kA 10/350 μs
Maximum Continuous Operating DC Voltage [U _c] (MCOV)	75 VDC
Voltage Protection Level [U _p] per IEC 61643-11	300 V
Voltage Protection Rating (VPR)	700 V
Suppression Technology	MOV
Strikesorb Module Type 2CA (UL 1449 4th edition)	30-V1-HV
Protection Modes: Normal Mode	-48V to Return
Common Mode	Return to Ground

M	echanical		
	Connection Terminal (Alarm) Method		Form C Hardwired, #22 to #12 AWG [0.34 to 4 mm ²]
	Connection Terminal (Suppression) Method		Compression lug 2 hole, #10, 5/8 pitch, 12-4 AWG [3.31-21 mm²]
	Connection Terminal (Trunk Ground/Drain) Method		Compression lug 2 hole, #10, 5/8 pitch, 12-4 AWG [3.31-21 mm²]
	Connection Terminal (Jumper Ground/Drain) Method		Terminal strip mechanical lug #4-14 AWG
	Operating Temperature (°C)		-40° C to +100° C
	Storage Temperature (°C)		-70° C to +80° C
	Cold Temperature Cycling IEC 61300-2-22		-30° C to +60° C 200 hrs @5 PSI
	Resistance to Aggressive Materials CEI IEC 61073-2		Including Acids and Bases
	UV Protection ISO 4892-2 Method A		Xenon-Arc 2160 hrs
	Enclosure Type		Outdoor - NEMA 4 Rated
	Enclosure Dimensions (LxWxH)		15.22"×17.74"×6.37" [386.6×450.7×161.8 mm]
	Weight		38.0 lbs [17.24 kg]
	Combined Wind Loading	Sustained	150 mph Sustained: 135.3 lbs [601 N]
		Gust	195 mph Gust: 228.6 lbs [1016 N]

Donnes Time Loading	Odotali lod	Too men oddamod. Too.o no [oo f m]
	Gust	195 mph Gust: 228.6 lbs [1016 N]
Additional Features		
Cable glands installed		2 each - M75 Cable Glands with #6 and #8 AWG inserts
Conduit fittings included in kit		2 each - 2 1/2" conduit fittings with PVC adapters

Strikesorb modules are compliant to the following Surge Protection Device Standards:

Standards: UL 1449 4th Edition: 2011, IEC 61643-11: 2011, EN 61643-11: 2012, IEEE C62.11: 2005, IEEE C62.41: 2002,

IEEE C62.45: 2002, NEMA-LS-1

Certifications: UL, VDE, CE

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic



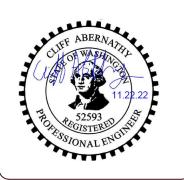
*MasTec Network Solutions

22263 68TH AVENUE SOUTH KENT, WA 98032



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SUBMITTALS						
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	·					



PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

> EXISTING 65'-6" STADIUM BUILDING

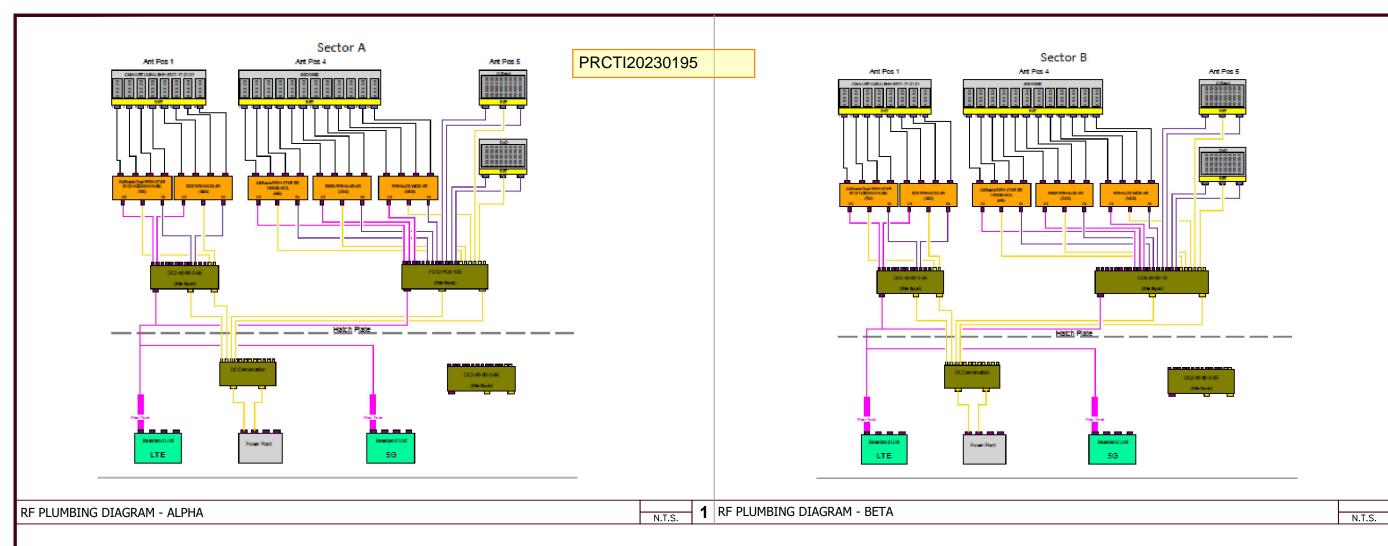
SHEET DESCRIPTION

DETAILS

SHEET NO.

C-8

DC6-48-60-0-1B-01 DETAIL NOT USED







1825 W. WALNUT HILL LANE, SUITE 120 IRVING, TEXAS 75038

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0	11/16/2022	100% CD	MVF		

CUEF ABERNATHIA OF WASHING 11.22.22 ALGISTERED

TOTAL STONAL ENGINE

PROJECT TITLE

SITE ID: TA48 FA#: 10102328

DOWNTOWN PUYALLUP

110 9TH AVENUE SOUTHWEST PUYALLUP, WA 98371

EXISTING 65'-6" STADIUM BUILDING

SHEET DESCRIPTION

City of Puyallup

ISSUED PERMIT

Planning

Public Works

Traffic

3

Building

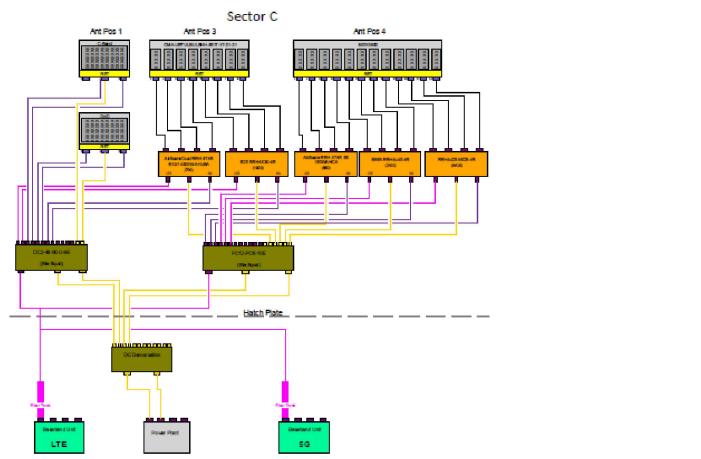
Engineering

Fire

RF PLUMBING DIAGRAM

SHEET NO.

RF-1





- EXISTING GROUND WIRE
- NEW GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION



⊗ GROUND ROD W/ TEST WEL

GENERAL NOTES:

- CONTRACTOR SHALL HAVE A COMPLETE UNDERSTANDING OF THE CONTENTS OF AT&T STANDARD TP-76416.
- 2. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL COMPRESSION GROUNDING CONNECTIONS.
- ALL EXOTHERMIC CONNECTIONS SHALL BE INSTALLED UTILIZING THE PROPER CONNECTION/MOLD AND MATERIALS FOR THE PARTICULAR APPLICATION.
- 5. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH AN EXTERNAL TOOTHED LOCK WASHER. GROUNDING BUS BARS MAY HAVE PRE-PUNCHED HOLES OR TAPPED HOLES. ALL HARDWARE SHALL BE SECURITY TORQUE HARDWARE 3/8" STAINLESS STEEL.
- EXTERNAL GROUNDING CONDUCTOR SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS, CONDUITS, OR SUPPORTS TO PRECLUDE ESTABLISHING A MAGNETIC CHOKE POINT.
- PLASTIC CLIPS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.
- 8. CONTRACTOR SHALL REPAIR/PLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS.
 ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- 10. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MANUFACTURERS PRACTICES.
- 11. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE AROVE GROUND.
- 12. CONTRACTOR TO VERIFY AND TEST GROUND SOURCE, GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY WIRELESS REPRESENTATIVE.
- 13. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
- 14. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED WIRELESS REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RINGS.
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- 16. USE PANI SCHEME FOR LOADING GROUNDS ON MGB AS DISCUSSED IN NSTD 119, 33 & 36.

GROUND ROD NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- 2. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT—TP—76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

CELLMAX-CMA-UBTULBULBHH -6517-17-21-21 ANTENNA

NEW #2 AWG GROUND LEAD FROM NEW EQUIPMENT TO NEW SECTOR

-SEE DETAIL 3 ON SHEET G-2

GROUND BAR (TYP.)

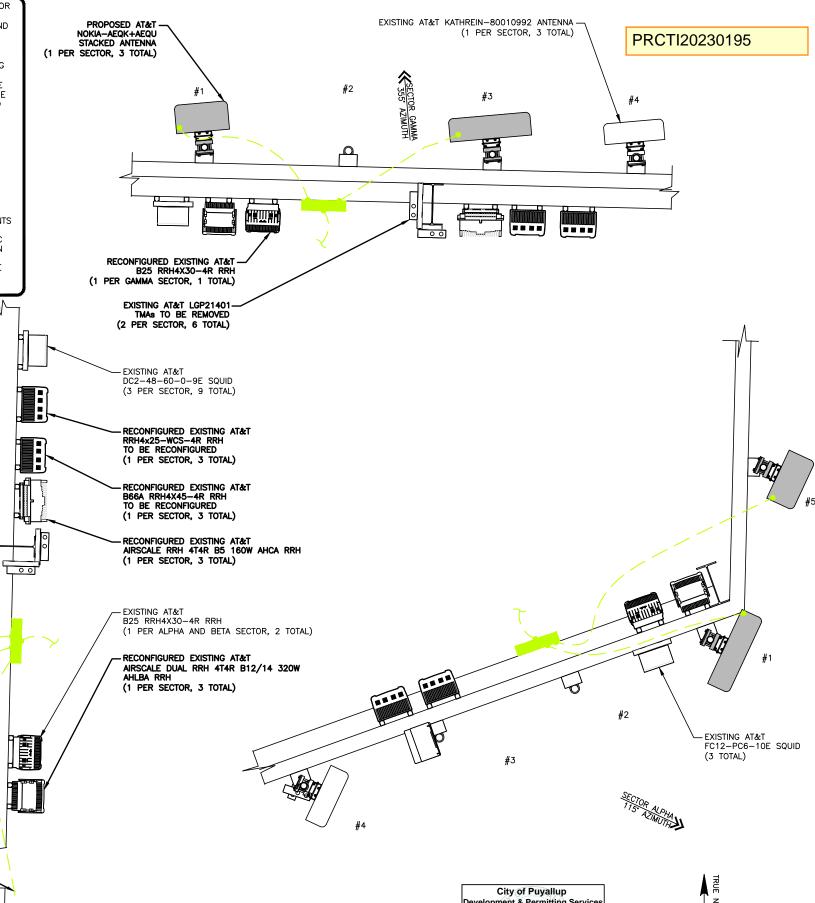
(1 PER SECTOR, 3 TOTAL)

#3

Q

PROPOSED AT&T DC6-48-60-0-1B-01 SQUID

(1 PER ALPHA SECTOR, 1 TOTAL)



ISSUED PERMIT

Public Works

Building

Engineering



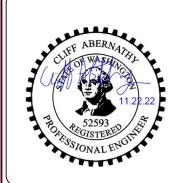
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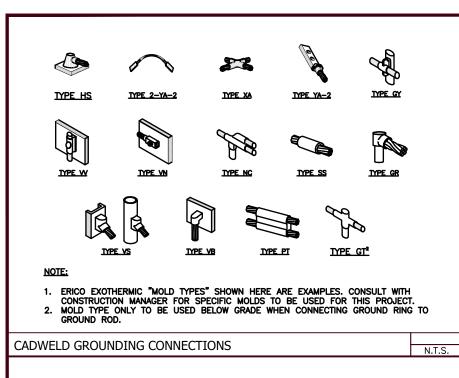
GROUNDING DIAGRAM

SHEET NO.

G-1

GROUNDING DIAGRAM

NTS



S/S NUT

S/S SPLIT

WASHER

S/S FLAT WASHER

S/S FLAT

WASHER

S/S BOLT

(TYP)

(TYP)

(TYP)

NOTE: MINIMUM OF 3 THREADS TO BE

2 HOLE LONG

BARREL TINNED SOLID COPPER

(TYP)

CHERRY INSULATOR

INSTALLED IF REQUIRED

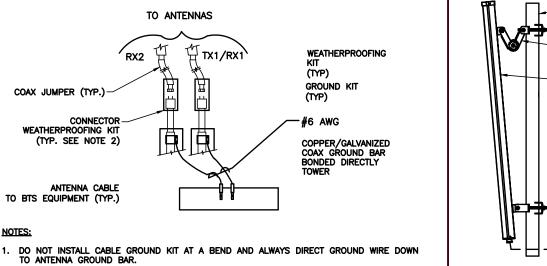
TIN COATED SOLID

COPPER BUS BAR

GROUNDWIRE INSTALLATION

VISIBLE

(TYP)

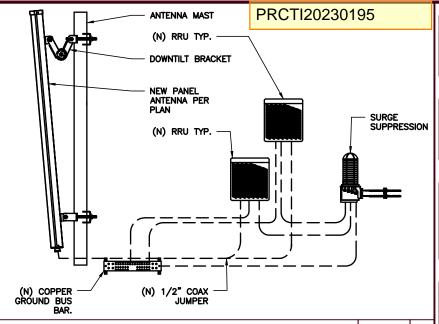


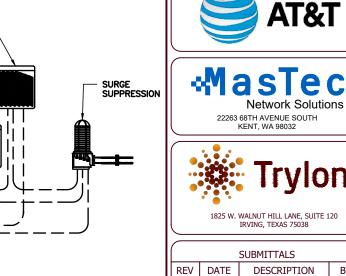
N.T.S.

6

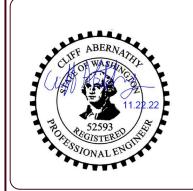
GROUND CABLE CONNECTION

- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN
- 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.





l		SUBMITTALS					
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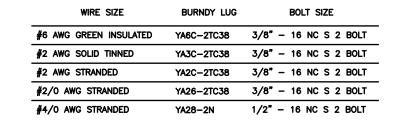
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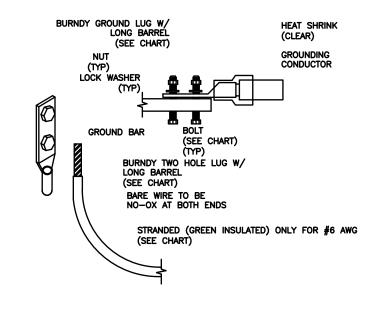
SHEET DESCRIPTION

GROUNDING DETAILS

SHEET NO.

G-2

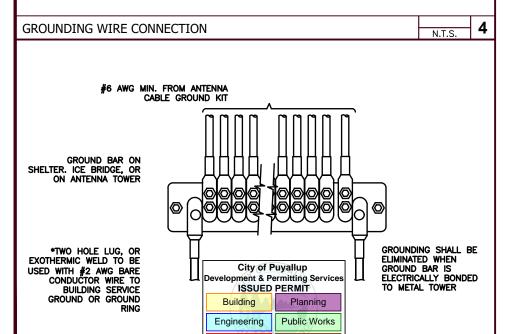


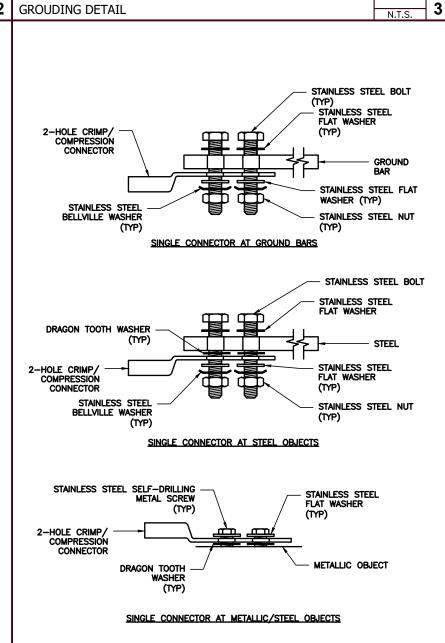


MECHANICAL LUG CONNECTION

5

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.





HARDWARE DETAIL FOR EXTERIOR CONNECTIONS