

PROJECT DESCRIPTION

AT&T PROPOSES TO MODIFY AN EXISTING TELECOMMUNICATIONS FACILITY WITH THE REMOVAL OF (3) PANEL ANTENNAS, ALL AT&T COAX CABLING AND THE RELOCATION OF (2) PANEL ANTENNAS ALONG WITH THE INSTALLATION OF (3) PROPOSED ACTIVE ANTENNAS c/w INTEGRATED RADIOS ON AN EXISTING ROOFTOP AND (1) PROPOSED DC6-48-60-18-8C-EV SURGE SUPPRESSOR PER SECTOR. INSTALL (3) NEW PIPE MOUNTS PER SECTOR FOR RRH AND SURGE SUPPRESSOR MOUNTING.

PROJECT INFORMATION

SITE ADDRESS	7900 SE 28TH ST MERCER ISLAND, WA 98040	ZONING DISTRICT:	TC
LATITUDE:	47° 35' 08.304" N (47.5856400° N)	EXISTING USE:	UNMANNED TELECOMMUNICATIONS FACILITY
LONGITUDE:	122° 13' 55.416" W (-122.2320600° W)	PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY
JURISDICTION:	CITY OF MERCER ISLAND	OCCUPANCY:	B
		A.P.N.	545230-1385

RF DATA SHEET

DATE ISSUED: 10/28/2021 VERSION: 2.00

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LEGAL DESCRIPTION

MERCER PARK ADD TGW A STRIP OF LAND 30.00 FT IN WIDTH & PLT AND IMMEDIATELY ADJ THE EAST SIDE OF THE PROP ABOVE DESC - WCH STRIP RUNS THE ENTIRE LENGTH OF THE EAST SIDE OF ABOVE DESC PROP BEING A POR OF VAC 80TH AVE SE - LESS POR OF LOTS 6 & 7 CONV TO KING COUNTY FOR ROAD - ALSO LESS ANY POR LY ELY OF A LINE DRAWN PLW & 30.00 FT WLY OF WHEN MEAS AT R/A TO THE 80TH CONN (80TH AVE SE) LINE SURVEY OF SR 90 M.I. W SHORE TO EAST CHANNEL BRIDGE SECTION 2, 76TH AVE VICINITY TO SHOREWOOD DR VICINITY AS CONV TO STATE OF WASHINGTON BY DEED UNDER REC NO 8307220413-LESS THAT POR LY WITHIN THE FOLG DESC PROP CONV TO CITY OF MERCER ISLAND FOR RD UNDER REC NO 8506250794

SITE PROJECT PARTICIPANTS

	NAME	COMPANY	NUMBER
A/E	LEE CAMPBELL	CORE ONE CONSULTING USA	778-805-2166
RF	GISELE LIMA	AT&T WIRELESS	425-919-3253
LANDLORD	T.B.D.	MERCER ISLAND COURT LLC	T.B.D.
SAC MANAGER	HANNAN RUTKOSKY	MASTEC NETWORK SOLUTIONS	253-579-3503
A&E MANAGER	DANIEL KELLY	MASTEC NETWORK SOLUTIONS	253-579-3503
CM	MIKE SUTHERBY	MASTEC NETWORK SOLUTIONS	253-579-3503



at&t

PROJECT SCOPE: 5G NR 1SR CBAND
 FA#: 10092489
 PTN#: 3801A0YFM1/3801A0XZQE/
 3801A0XX22
 PACE NUMBER: MRWOR052471/MRWOR051810/
 MRWOR051708
 SITE NUMBER: SD05
 SITE NAME: MERCER ISLAND
 ADDRESS: 7900 SE 28TH ST
 MERCER ISLAND, WA 98040
 OWNER INFO.: MERCER ISLAND COURT, LLC.
 c/o LIGHTHOUSE PROP, LLC.
 P.O. BOX 198
 ISSAQUAH, WA 98027

VICINITY MAP



BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 [INTERNATIONAL BUILDING CODE (IBC), 2018 IBC WITH 2019 SBC AS ADOPTED BY THE LOCAL JURISDICTION]

ELECTRICAL CODE:
 [NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2020 WITH 2020 SPECIALTY CODES, NATIONAL ELECTRICAL CODE, AS ADOPTED BY THE LOCAL JURISDICTION]

LIGHTNING PROTECTION CODE:
 [NFPA 780 - 2002, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION ANSI/TIA 222, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SCALING DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

IF USING 11"x17" PLOT, DRAWINGS WILL BE AT HALF SCALE.

DIG INFORMATION



UULC:
UTILITIES UNDERGROUND LOCATION CENTER
 1-800-424-5555 OR 811
 WWW.CALLBEFOREYOU.DIG.ORG/WASHINGTON
 3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

APPROVAL / SIGN OFF OF CONSTRUCTION DRAWINGS

	DATE	SIGNATURE
SAQ MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
RF ENGINEER MANAGER		
PROJECT MANAGER		
AT&T SIGN OFF		
LANDLORD'S REPRESENTATIVE		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED



AT&T MOBILITY
 RTC BUILDING 3
 18221 NE 72nd WAY
 REDMOND, WA 98052



13555 SE 36TH ST SUITE 100
 BELLEVUE, WA 98006



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 BELLEVUE, WA 98006

PROJECT NO: 2152U145

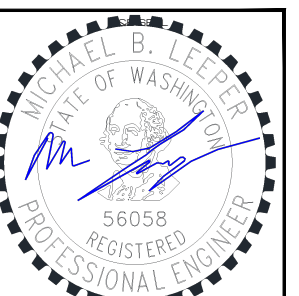
DRAWN BY: MP

CHECKED BY: LC

SUBMITTALS

DATE	DESCRIPTION	STATUS
0 MAR 24/22	FINAL CD'S	AF
C MAR 23/22	REVISED RRH MOUNTING	AF
B MAR 14/22	REVISED PER COMMENTS	AF
A FEB 10/22	ISSUED FOR 90% REVIEW	MP

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT NAMED IS STRICTLY PROHIBITED.



SITE
 MERCER ISLAND
 SD05
 7900 SE 28TH ST
 MERCER ISLAND,
 WA 98040

FA #: 10092489

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

DESIGN CRITERIA:

- THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2018 WITH w/2019 CBC.
- DESIGN LOADS:**
SEE STRUCTURAL

CONCRETE NOTES:

- ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.
- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE 2015 IBC. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS..

TYPE OF CONSTRUCTION	28 DAY STRENGTHS (f'c)	W/C RATIO	MINIMUM CEMENT CONTENT PER CUBIC YARD
A. STRUCTURAL SLABS AND CONCRETE PIERS	4,000 PSI	≤ .45	6 ½ SACKS
B. ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .45	6 ½ SACKS
C. CONCRETE WALLS	4,000 PSI	≤ .45	6 ½ SACKS
D. SLABS ON GRADE/TOPPING SLABS (FOR EQUIPMENT CABINET)	2,500 PSI	≤ .45	6 ½ SACKS

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II U.N.O.

- THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.
- ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989 AND C1017. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE 2015 IBC.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.
- REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH AC1 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.
- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.
- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 - FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE 3"
 - FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) 2" (#5 BARS OR SMALLER) 1 1/2"
 - SLABS AND WALLS (INTERIOR FACE) 3/4"
- BARS SHALL BE SUPPORTED ON CHAIRS OR DOBIE BRICKS.
- ANCHOR BOLTS TO CONFORM TO ASTM A307.
- NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).
- ALL EXPANSION ANCHORS TO BE HILTI BRAND. ADHESIVE ANCHORS REQUIRE TESTING TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER.

BUILDING NOTES:

- VERIFICATION THAT THE EXISTING BUILDING ROOF CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE COMPLETED PRIOR TO ANY MODIFICATIONS BY OTHERS.
- PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

SAFETY PROGRAM:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND DOCUMENTING THEIR OWN SAFETY TRAINING PROGRAM.

ABBREVIATED ROOF TOP SAFETY PROCEDURES (WHEN APPLICABLE):

(AS PER "ACCIDENT PREVENTION PROGRAM" - BY PERMISSION OF WREN CONSTRUCTION, INC. - 03/01/99)

FALL PROTECTION METHODS AND EQUIPMENT ROOF TOP INSTALLATIONS

- FOR WORK IS BEING PERFORMED WITHIN 25' OF AN UNPROTECTED ROOF EDGE, THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERVE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS.
- SAFETY MONITOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E., BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES. THE SAFETY MONITOR MUST BE ON THE SAME ROOF AND WITHIN VISUAL AND VERBAL DISTANCE OF THE CONSTRUCTION WORKERS.
- CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6' OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE.
- SAFETY LINE SHALL BE MINIMUM ½" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS.
- SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE.
- SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND.
- SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS.
- MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES, INCLUDING:
 - INSPECTION OF CONSTRUCTION AREA FOR HAZARDS
 - USE OF AN INSPECTION CHECKLIST
 - INTERVIEWING COWORKERS REGARDING SAFETY CONCERNS
 - REPORTING AND DOCUMENTING ANY HAZARDS
 - REPORTING HAZARDS TO THE SAFETY COMMITTEE FOR CONSIDERATION
 - POSTING RESULTS OF INSPECTION AND ANY ACTION TAKEN
 - RECEIVING AN UNBIASED REVIEW OF ONE'S OWN WORK AREA BY ANOTHER COWORKER SAFETY REPRESENTATIVE

REFER TO ROOFTOP WORK AREA SAFETY PROTOCOL NATIONAL ASSOCIATION OF TOWER ERECTORS 2000 PUBLICATION

REFERENCED OSHA REGULATION/STANDARDS SHALL BE REVIEWED BY TOWER ERECTORS, EQUIPMENT INSTALLERS, AND TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS

29 CFR 1926.500 - SCOPE, APPLICATION, AND DEFINITIONS
 29 CFR 1926.501 - DUTY TO HAVE FALL PROTECTION
 19 CFR 1926.502 - FALL PROTECTION SYSTEMS CRITERIA AND PRACTICES

FIBER REINFORCED POLYMER (FRP) NOTES:

- FRP PLATES, SHAPES, BOLTS AND NUTS (STUD/NUT ASSEMBLIES) SHALL CONFORM TO ASTM D638, 695, 790. PLATES AND SHAPES TO BE FY = 30 KSI (LW), 7 KSI (CW) MIN.
- IF FIELD FABRICATION IS REQUIRED, ALL CUT EDGES AND DRILLED HOLES TO BE SEALED USING VINYL ESTER SEALING KIT SUPPLIED BY THE MANUFACTURER.
- ALL FASTENERS TO BE 1/2" DIA FRP THREADED ROD WITH FIBER REINFORCED THERMOPLASTIC NUT, SPACED AT 12 INCHES ON CENTER MAXIMUM, U.N.O., FOR PANELS AND AS DESIGNED FOR STRUCTURAL MEMBERS.
- THE COLOR AND SURFACE PATTERN OF EXPOSED FRP PANELS SHALL MATCH THE EXTERIOR OF THE EXISTING BUILDING, U.N.O.
- STUD/NUT ASSEMBLIES SHOULD BE LUBRICATED FOR INSTALLATION
- ENSURE BEARING SURFACES OF THE NUTS ARE PARALLEL TO THE SURFACES BEING FASTENED.
- TORQUE BOLTS ACCORDING TO THE FOLLOWING TABLE:

INSTALLATION TORQUE TABLE		
SIZE	ULTIMATE TORQUE STRENGTH	RECOMMENDED MAXIMUM INSTALLATION TORQUE
3/8-16 UNC	8 FT-LBS	4 FT-LBS
1/2-13 UNC	18 FT-LBS	8 FT-LBS
5/8-11 UNC	35 FT-LBS	16 FT-LBS
3/4-10 UNC	50 FT-LBS	24 FT-LBS
1-8 UNC	110 FT-LBS	50 FT-LBS
- WHEN TIGHTENING FRP STUD/NUT ASSEMBLIES, WRENCHES MUST MAKE FULL CONTACT WITH ALL NUT EDGES. A STANDARD SIX POINT SOCKET IS RECOMMENDED.
- STUD/NUT ASSEMBLIES SHOULD BE BONDED BY APPLYING BONDING AGENT TO ENTIRE NUT AND EXPOSED STUD.
- ALL FRP MATERIALS TO BE PROVIDED BY FIBERGRATE COMPOSITE STRUCTURES, DALLAS TX, OR APPROVED EQUAL.
- ALL FRP SHAPES TO BE DYNAFORM PULTRUDED STRUCTURAL SHAPES.
- ALL FRP PLATES TO BE FIBERPLATE MOLDED FRP PLATE.
- ALL FRP PANELS TO BE FIBERPLATE CLADDING PANEL.
- EACH FRP PANEL TO BE IDENTIFIED WITH LARR#25536 AND FIBERGRATE COMPOSITE STRUCTURAL LABEL.
- FRP MATERIAL TO BE CLASSIFIED AS CC1 OR BETTER, AND HAVE MAXIMUM FLAME SPREAD OF 50.
- ALL DESIGN AND CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH LOS ANGELES RESEARCH REPORT RR25536, DATED FEBRUARY 1, 2016.
- SPECIAL INSPECTIONS MUST BE PROVIDED FOR ALL FRP INSTALLMENTS. SEE SPECIAL INSPECTION SECTION, THIS SHEET.

m		
	RANGE	RECOMMENDED
EDGE DISTANCE - CL* BOLT TO END	2.0-4.0	3.0
EDGE DISTANCE - CL* BOLT TO SIDE	1.5-3.5	2.5
BOLT PITCH - CL* TO CL*	4.0-5.0	5.0

STEEL CONSTRUCTION NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES, AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS' RECOMMENDATIONS.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- ALL STEEL MEMBERS AND CONNECTIONS SHALL MEET THE FOLLOWING GRADES:
 - ANGLES, CHANNELS, PLATES AND BARS TO BE A36. Fy=36 KSI, U.N.O.
 - W SHAPES TO BE A992. Fy=50 KSI, U.N.O.
 - RECTANGULAR HSS TO BE A500, GRADE B. Fy=46 KSI, U.N.O.
 - ROUND HSS TO BE A500, GRADE B. Fy=42 KSI, U.N.O.
 - STEEL PIPE TO BE A53, GRADE B. Fy=35 KSI, U.N.O.
 - BOLTS TO BE A325-X. Fu=120 KSI, U.N.O.
 - U-BOLTS AND LAG SCREWS TO BE A307 GR A. Fu=60 KSI, U.N.O.
- ALL WELDING SHALL BE DONE USING E80XX ELECTRODES, U.N.O.
- ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
- ALL HILTI ANCHORS TO BE CARBON STEEL, U.N.O.
 - MECHANICAL ANCHORS: KWIK BOLT-TZ, U.N.O.
 - CMU BLOCK ANCHORS: ADHESIVE - HY120, U.N.O.
 - CONCRETE ANCHORS: ADHESIVE - HY150, U.N.O.
 - CONCRETE REBAR: ADHESIVE - RE500, U.N.O.
- ALL STUDS TO BE NELSON CAPACITOR DISCHARGE 1/4"-20 LOW CARBON STEEL COPPER-FLASH AT 55 KSI ULT/50 KSI YIELD, U.N.O.
- BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
- MINIMUM EDGE DISTANCES SHALL CONFORM TO AISC TABLE J3.4.

WOOD CONSTRUCTION NOTES:

- ALL EXISTING WOOD SHAPES ARE ASSUMED TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN.
- ALL PROPOSED WOOD SHAPES ARE TO BE DOUGLAS FIR-LARCH WITH A REFERENCE DESIGN BENDING VALUE OF 1000 PSI MIN. U.N.O.
- ALL EXISTING AND PROPOSED GLUED LAMINATED TIMBERS ARE TO BE 24F-1.8C DOUGLAS FIR BALANCED WITH A REFERENCE DESIGN BENDING VALUE OF 2400 PSI MIN. U.N.O.



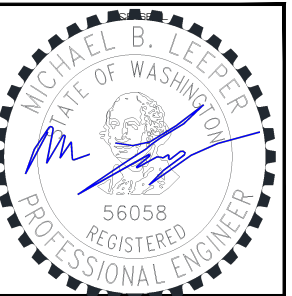
PROJECT NO: 2152U145

DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS		
O MAR 24/22	FINAL CD'S	AF
C MAR 23/22	REVISED RRR MOUNTING	AF
B MAR 14/22	REVISED PER COMMENTS	AF
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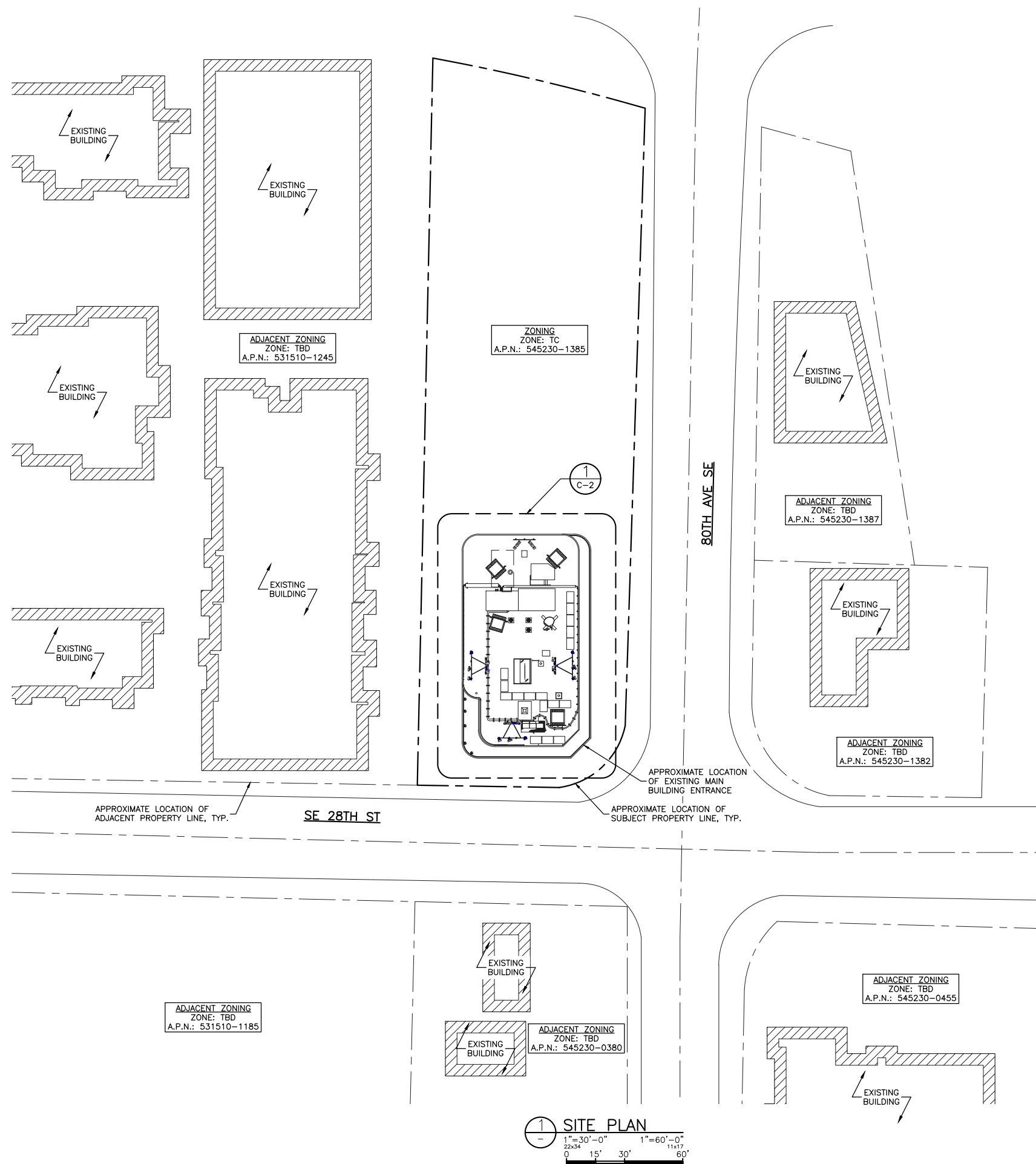
FA #: 10092489

SHEET TITLE
 GENERAL NOTES II

SHEET NUMBER
GN-2



TRUE NORTH ARROW SHOWN ON THIS DRAWING IS APPROXIMATE ONLY AND MUST BE VERIFIED



NOTES:

1. SITE PLAN INFORMATION OBTAINED FROM DRAWINGS PREPARED BY MASTEC NETWORK SOLUTIONS, DATED 07/27/2020.
2. CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
3. THIS DRAWING DOES NOT REPRESENT A SURVEY.

LEGAL DESCRIPTION

MERCER PARK ADD TOW A STRIP OF LAND 30.00 FT IN WIDTH & PLT AND IMMEDIATELY ADJ THE EAST SIDE OF THE PROP ABOVE DESC - WCH STRIP RUNS THE ENTIRE LENGTH OF THE EAST SIDE OF ABOVE DESC PROP BEING A POR OF VAC BOTH AVE SE - LESS POR OF LOTS 6 & 7 CONV TO KING COUNTY FOR ROAD - ALSO LESS ANY POR LY ELY OF A LINE DRAWN PLW & 30.00 FT WLY OF WHEN MEAS AT R/A TO THE 80TH CONN (BOTH AVE SE) LINE SURVEY OF SR 90 M.I. W SHORE TO EAST CHANNEL BRIDGE SECTION 2, 76TH AVE VICINITY TO SHOREWOOD DR VICINITY AS CONV TO THE STATE OF WASHINGTON BY DEED UNDER REC NO 8307220413-LESS THAT POR LY WITHIN THE FOLG DESC PROP CONV TO CITY OF MERCER ISLAND FOR RD UNDER REC NO 8506250794

PROPERTY OWNER

MERCER ISLAND COURT LLC
CONTACT: T.B.D.
PHONE: T.B.D.

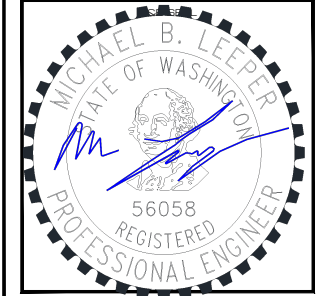


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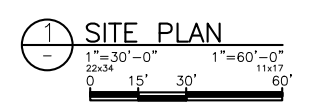
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SD05
7900 SE 28TH ST
MERCER ISLAND,
WA 98040
FA #: 10092489

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1





TRUE NORTH ARROW SHOWN ON THIS DRAWING IS APPROXIMATE ONLY AND MUST BE VERIFIED

1
C-3
HIDDEN LINE REPRESENTS APPROXIMATE LOCATION OF EXISTING AT&T EQUIPMENT ROOMS BELOW ON 2ND FLOOR

1 1
RF-1 RF-2
AT&T ANTENNA INSTALLATION ON EXISTING MOUNTING FRAME

1
C-4
1
C-5

3 3
RF-1 RF-2
AT&T ANTENNA INSTALLATION ON EXISTING MOUNTING FRAME

2 2
RF-1 RF-2
AT&T ANTENNA INSTALLATION ON EXISTING MOUNTING FRAME

APPROXIMATE LOCATION OF EXISTING MAIN BUILDING ENTRANCE

1
-
ROOF PLAN
1/8" = 1'-0" 1/16" = 1'-0"
22x34 11x17
0 4' 8' 16'

NOTES:

1. ROOF PLAN INFORMATION OBTAINED FROM DRAWINGS PREPARED BY MASTEC NETWORK SOLUTIONS, DATED 07/27/2020.
2. CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF MEMBRANE DURING CONSTRUCTION. REPAIR ANY DAMAGE TO PRE-CONSTRUCTION CONDITIONS.



AT&T MOBILITY
RTC BUILDING 3
18221 NE 72nd WAY
REDMOND, WA 98052



13555 SE 36TH ST SUITE 100
BELLEVUE, WA 98006



13555 SE 36TH ST SUITE 100
BELLEVUE, WA 98006

PROJECT NO: 2152U145

DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

0	MAR 24/22	FINAL CD'S	AF
C	MAR 23/22	REVISED RRH MOUNTING	AF
B	MAR 14/22	REVISED PER COMMENTS	AF
A	FEB 10/22	ISSUED FOR 90% REVIEW	MP

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SITE
MERCER ISLAND
SD05
7900 SE 28TH ST
MERCER ISLAND,
WA 98040

FA #: 10092489

SHEET TITLE

ROOF PLAN

SHEET NUMBER

C-2



TRUE NORTH ARROW SHOWN ON THIS DRAWING IS APPROXIMATE ONLY AND MUST BE VERIFIED

NOTES:

- EQUIPMENT LAYOUT INFORMATION OBTAINED FROM DRAWINGS PROVIDED BY MASTEC NETWORK SOLUTIONS, DATED 07/27/2020.
- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.



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RTC BUILDING 3
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13555 SE 36TH ST SUITE 100
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PROJECT NO: 2152U145

DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

O	MAR 24/22	FINAL CD'S	AF
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B	MAR 14/22	REVISED PER COMMENTS	AF
A	FEB 10/22	ISSUED FOR 90% REVIEW	MP

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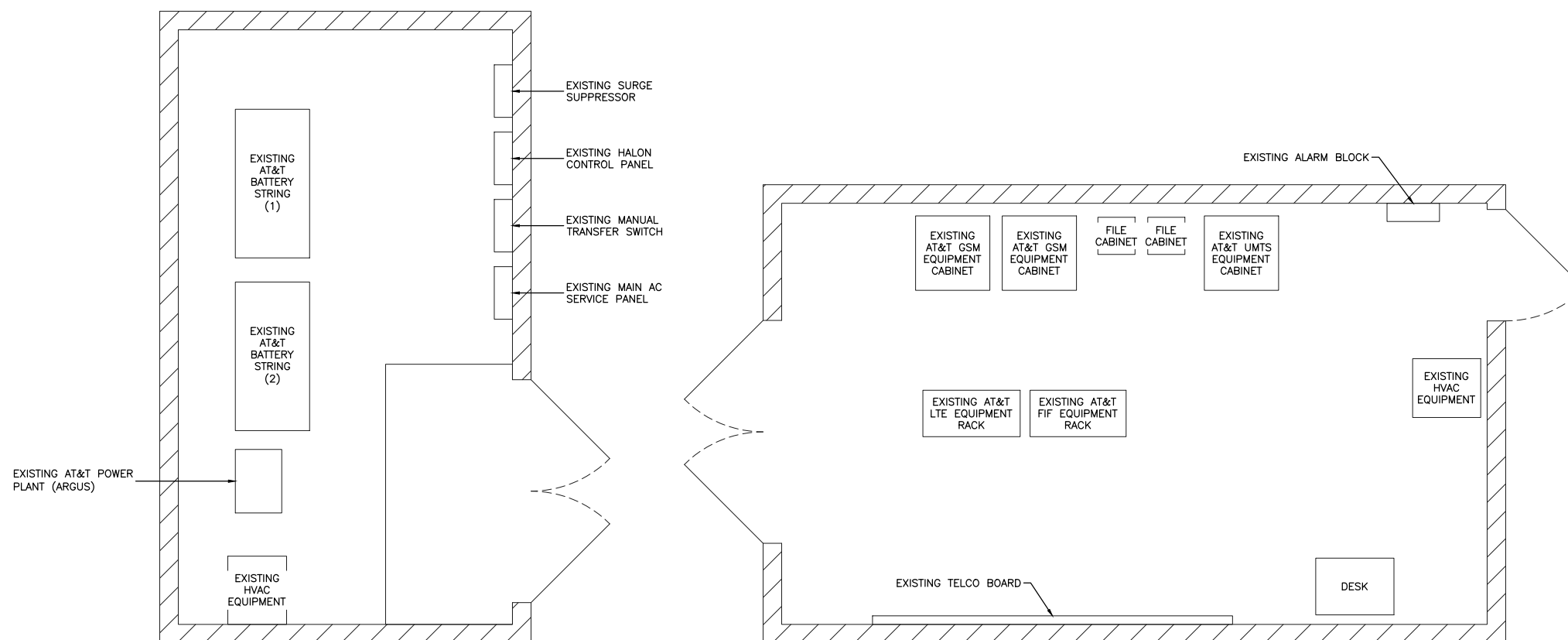
SITE
MERCER ISLAND
SD05
7900 SE 28TH ST
MERCER ISLAND,
WA 98040

FA #: 10092489

SHEET TITLE
EQUIPMENT LAYOUT

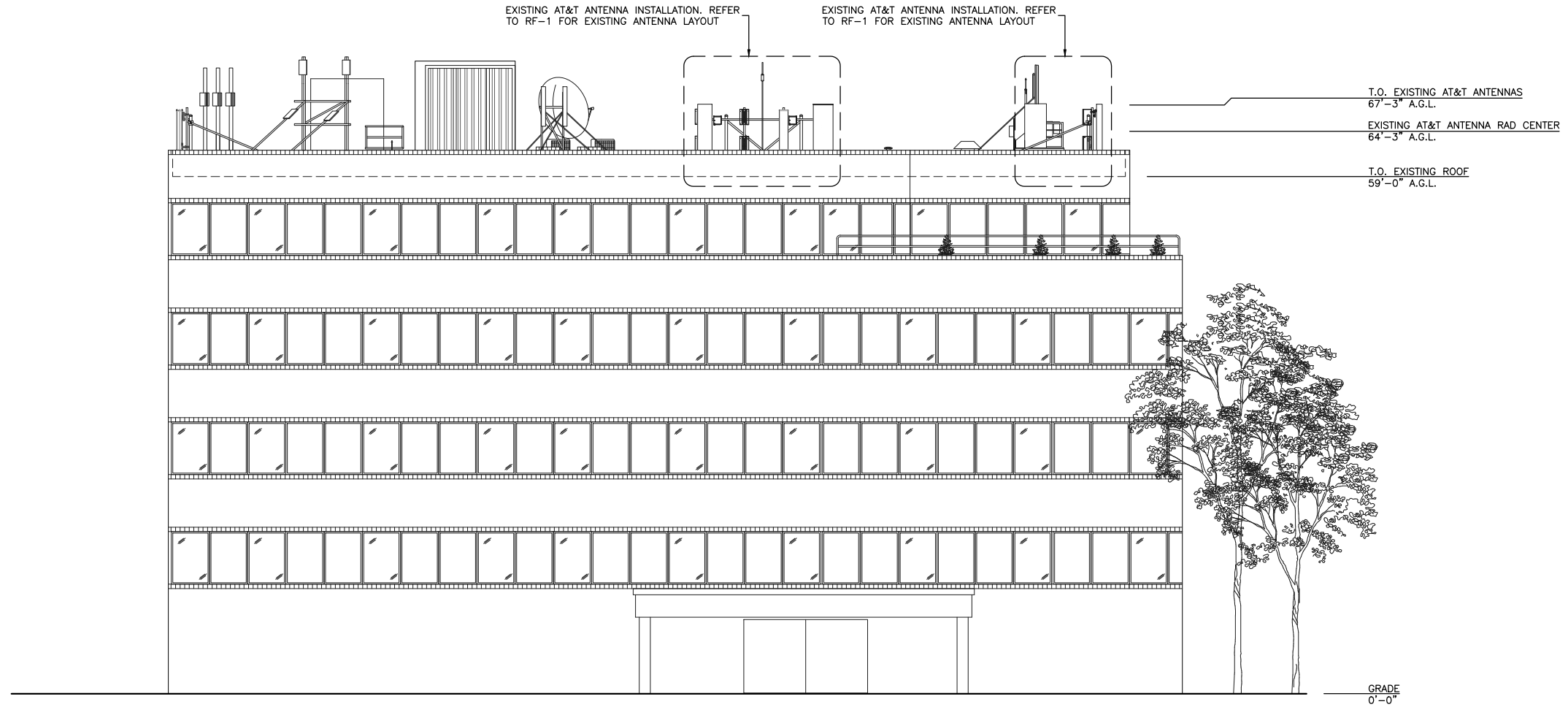
SHEET NUMBER

C-3



1 EQUIPMENT LAYOUT
1/2" = 1'-0" 25x34
1/4" = 1'-0" 11x17
0 1' 2' 4'

NOTE:
1. ELEVATION IS DIAGRAMMATIC ONLY.



1 EXISTING WEST ELEVATION
 1/8"=1'-0" 1/16"=1'-0"
 22x34 11x17
 0 4' 8' 16'



AT&T MOBILITY
 RTC BUILDING 3
 18221 NE 72nd WAY
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13555 SE 36TH ST SUITE 100
 BELLEVUE, WA 98006



13555 SE 36TH ST SUITE 100
 BELLEVUE, WA 98006

PROJECT NO: 2152U145

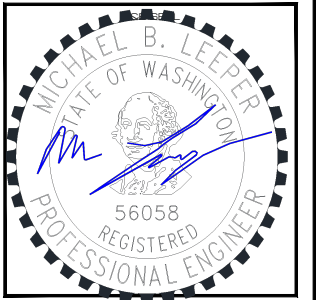
DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

0	MAR 24/22	FINAL CD'S	AF
C	MAR 23/22	REVISED RRH MOUNTING	AF
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 MERCER ISLAND
 SD05
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 WA 98040

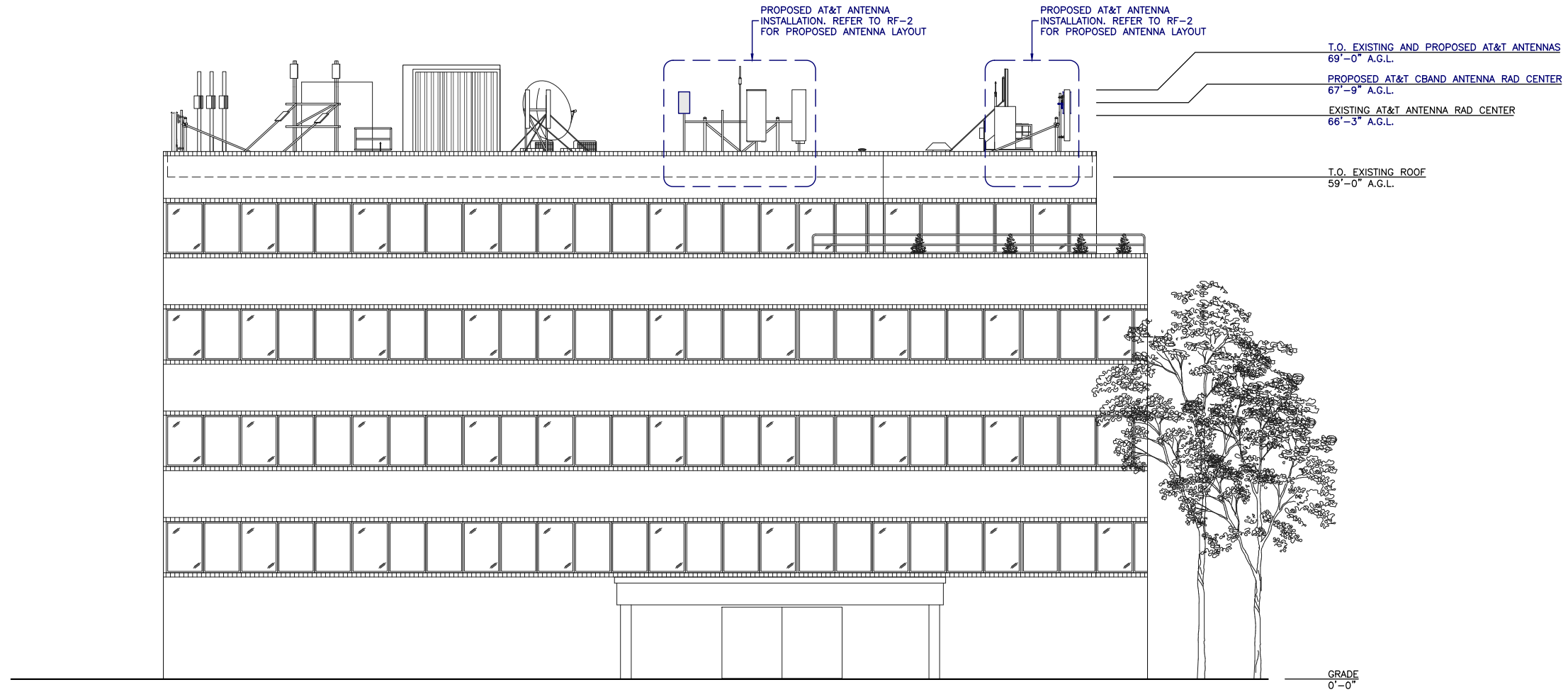
FA #: 10092489

SHEET TITLE
 EXISTING WEST
 ELEVATIONS

SHEET NUMBER
 C-4

NOTE:
1. ELEVATION IS DIAGRAMMATIC ONLY.

ALL ANTENNAS MOVING UP
TO 69'-0" TIP HEIGHT



1 PROPOSED WEST ELEVATION
1/8"=1'-0" 22x34
1/16"=1'-0" 11x17
0 4' 8' 16'



PROJECT NO: 2152U145

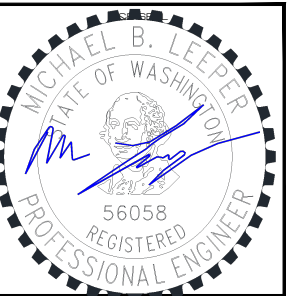
DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

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C	MAR 23/22	REVISED RRH MOUNTING	AF
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FA #: 10092489

SHEET TITLE
PROPOSED WEST
ELEVATION

SHEET NUMBER
C-5

EXISTING ANTENNA CONFIGURATION AND SCHEDULE

SECTOR A	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
LTE 700						4'				1	DUAL RRH 4T4R B12/14					(2) EXISTING DC2-48-60-0-9E
LTE 1900	160°	64'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2'	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2'										
UMTS 850	160°	64'-3"	1	COMMSCOPE	SBNHH-1D65B	0°	0°	NO	NONE	-	-	2	7/8"	78'-0"±	NO	
LTE WCS						0°				1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	
5G 850	160°	64'-3"	1	COMMSCOPE	NNH4-65B-R6	4'	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	
SECTOR B	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
UMTS 850	280°	64'-3"	1	COMMSCOPE	SBNHH-1D65B	2'	0°	NO	NONE	-	-	2	7/8"	78'-0"±	NO	(2) EXISTING DC2-48-60-0-9E
LTE WCS						0°				1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	
LTE 700						2'				1	DUAL RRH 4T4R B12/14	1	FIBER	78'-0"±	NO	
LTE 1900	280°	64'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2'	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2'										
5G 850	280°	64'-3"	1	COMMSCOPE	NNH4-65B-R6	2'	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	
SECTOR C	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
UMTS 850	65°	64'-3"	1	COMMSCOPE	SBNHH-1D65B	2'	0°	NO	NONE	-	-	2	7/8"	78'-0"±	NO	(2) EXISTING DC2-48-60-0-9E
LTE WCS						0°				1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	
LTE 700						2'				1	DUAL RRH 4T4R B12/14	1	FIBER	78'-0"±	NO	
LTE 1900	65°	64'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2'	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2'										
5G 850	65°	64'-3"	1	COMMSCOPE	NNH4-65B-R6	2'	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	



TRUE NORTH ARROW SHOWN ON THIS DRAWING IS APPROXIMATE ONLY AND MUST BE VERIFIED

NOTES:

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- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.



AT&T MOBILITY
RTC BUILDING 3
18221 NE 72nd WAY
REDMOND, WA 98052

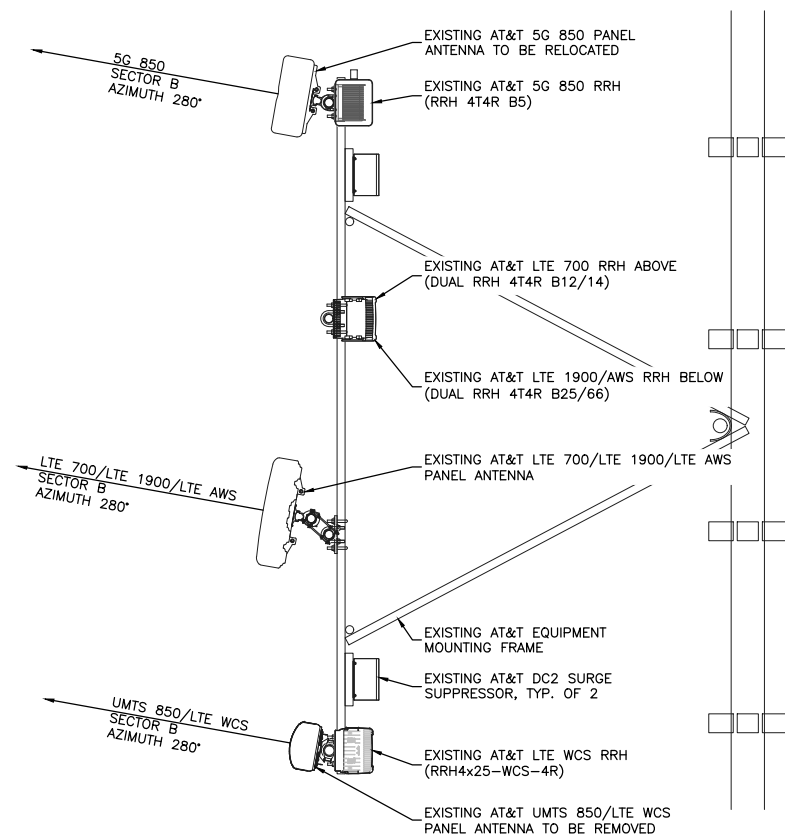


13555 SE 36TH ST SUITE 100
BELLEVUE, WA 98006



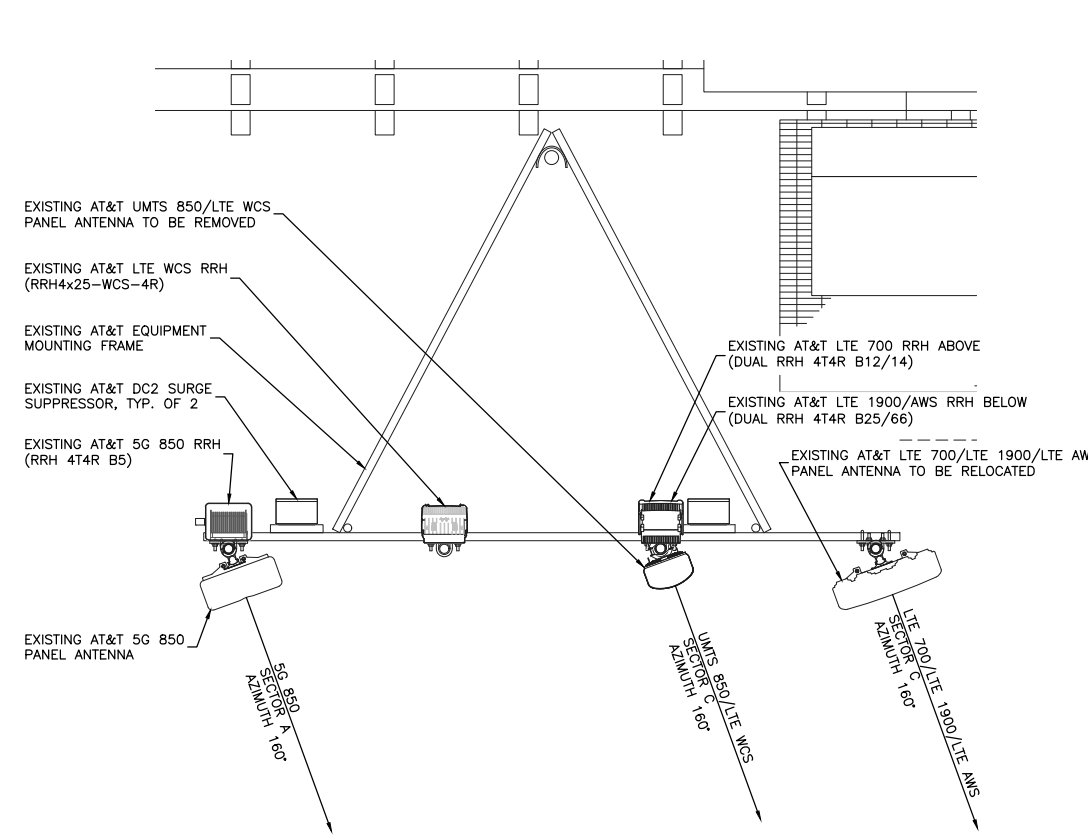
13555 SE 36TH ST SUITE 100
BELLEVUE, WA 98006

EXISTING ANTENNA CONFIGURATION AND SCHEDULE DATA WAS OBTAINED FROM AT&T RF DATA SHEET (DATED 10/28/2021) RFDS VERSION 2.0



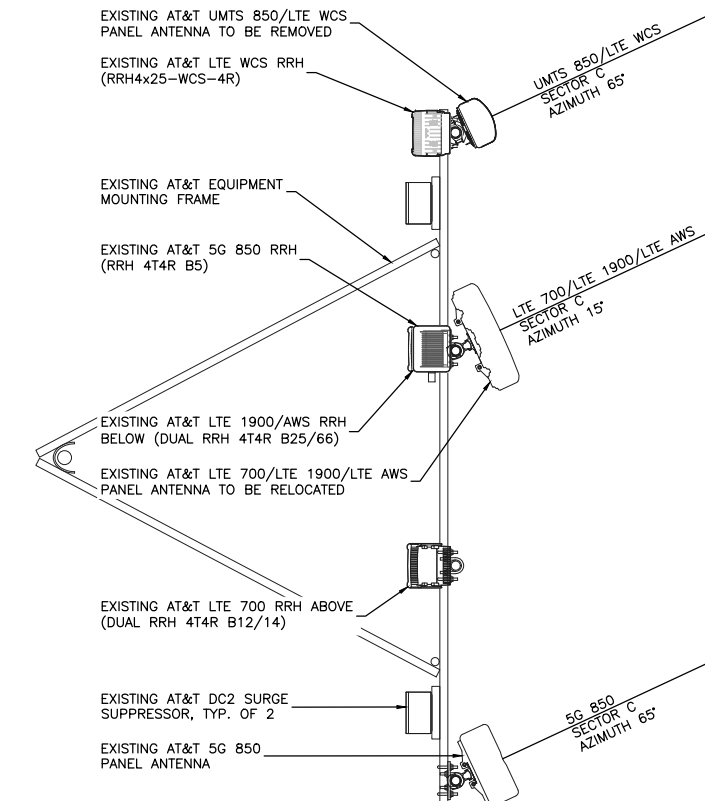
1 EXISTING ANTENNA CONFIGURATION (BETA)

1/2"=1'-0"
22x34
0 1' 2' 4'
1/4"=1'-0"
11x17



2 EXISTING ANTENNA CONFIGURATION (ALPHA)

1/2"=1'-0"
22x34
0 1' 2' 4'
1/4"=1'-0"
11x17



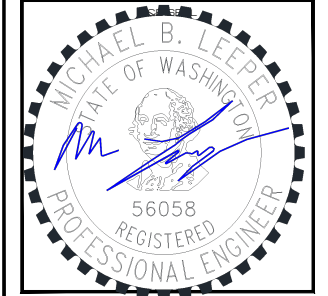
3 EXISTING ANTENNA CONFIGURATION (GAMMA)

1/2"=1'-0"
22x34
0 1' 2' 4'
1/4"=1'-0"
11x17

PROJECT NO:	2152U145
DRAWN BY:	MP.
CHECKED BY:	LC.

SUBMITTALS		
0 MAR 24/22	FINAL CD'S	AF
C MAR 23/22	REVISED RRH MOUNTING	AF
B MAR 14/22	REVISED PER COMMENTS	AF
A FEB 10/22	ISSUED FOR 90% REVIEW	MP

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SITE
MERCER ISLAND
SD05
7900 SE 28TH ST
MERCER ISLAND,
WA 98040
FA #: 10092489

SHEET TITLE
EXISTING ANTENNA CONFIGURATIONS

SHEET NUMBER
RF-1

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE

SECTOR A	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
5G CBAND	160°	67'-9"	1	NOKIA	AEQK	0°	0°	NO	NONE	-	INTEGRATED RADIO	-	-	-	NO	(2) EXISTING DC2-48-60-0-9E AND (1) PROPOSED DC6-48-60-18-8C-EV
LTE 700						4°	0°			1	DUAL RRH 4T4R B12/14					
LTE 1900	160°	66'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2°	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2°	0°									
5G 850	160°	66'-3"	1	COMMSCOPE	NNH4-65B-R6	4°	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	
LTE WCS	160°	66'-3"	1	COMMSCOPE	NNH4-65B-R6	2°	0°	NO	NONE	1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	
SECTOR B	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
5G 850	280°	66'-3"	1	COMMSCOPE	NNH4-65B-R6	2°	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	(2) EXISTING DC2-48-60-0-9E AND (1) PROPOSED DC6-48-60-18-8C-EV
LTE WCS						2°	0°			1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	
LTE 700	280°	66'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2°	0°	NO	NONE	1	DUAL RRH 4T4R B12/14	1	FIBER	78'-0"±	NO	
LTE 1900	280°	66'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2°	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2°	0°									
5G CBAND	280°	67'-9"	1	NOKIA	AEQK	0°	0°	NO	NONE	-	INTEGRATED RADIO	-	-	-	NO	
SECTOR C	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC. TILT	MECH. TILT	RET	TMA	RRH COUNT	RRH MODEL NO.	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	DIPLEXED	EQUIPMENT
5G CBAND	65°	67'-9"	1	NOKIA	AEQK	0°	0°	NO	NONE	-	INTEGRATED RADIO	-	-	-	NO	(2) EXISTING DC2-48-60-0-9E AND (1) PROPOSED DC6-48-60-18-8C-EV
LTE 700						2°	0°			1	DUAL RRH 4T4R B12/14					
LTE 1900	65°	66'-3"	1	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	2°	0°	NO	NONE	1	DUAL RRH 4T4R B25/66	1	FIBER	78'-0"±	NO	
LTE AWS						2°	0°									
5G 850	65°	66'-3"	1	COMMSCOPE	NNH4-65B-R6	2°	0°	NO	NONE	1	RRH 4T4R B5	1	FIBER	78'-0"±	NO	
LTE WCS	65°	66'-3"	1	COMMSCOPE	NNH4-65B-R6	2°	0°	NO	NONE	1	RRH4x25-WCS-4R	1	FIBER	78'-0"±	NO	



TRUE NORTH ARROW SHOWN ON THIS DRAWING IS APPROXIMATE ONLY AND MUST BE VERIFIED

NOTES:

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- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

VERIFICATION THAT THE EXISTING ANTENNA MOUNTS ARE CAPABLE OF SUPPORTING THE PROPOSED ANTENNA LOADING IS TO BE PROVIDED PRIOR TO ANY EQUIPMENT MODIFICATION.

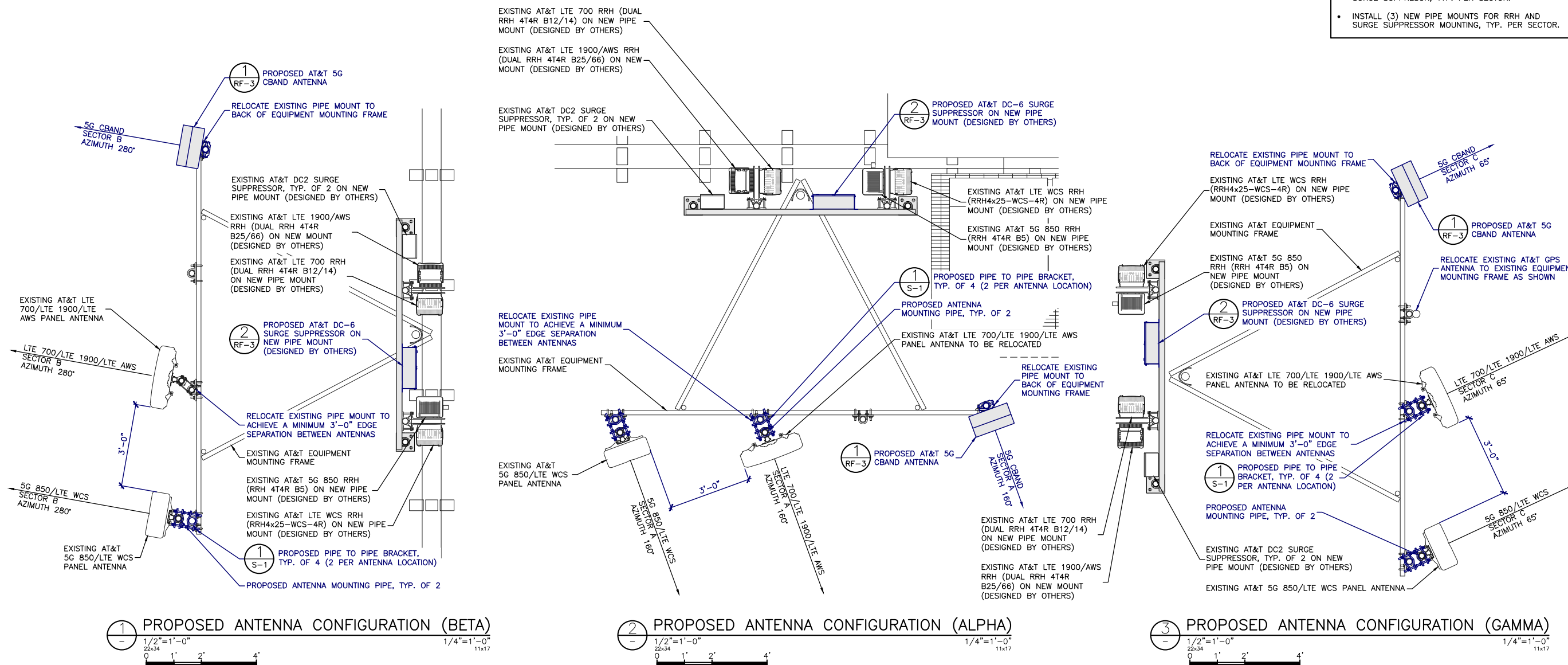
STRUCTURAL ANALYSIS AND DESIGN TO BE COMPLETED PRIOR TO FINAL CONSTRUCTION DESIGN COMPLETION

MOUNT ALL PROPOSED EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS

SCOPE OF WORK

- REMOVE (1) EXISTING SBMHH-1D65B PANEL ANTENNA, TYP. PER SECTOR
- RELOCATE ALL EXISTING AT&T PANEL ANTENNAS AS SHOWN.
- RELOCATE EXISTING ANTENNA PIPES TO NEW LOCATIONS AS REQUIRED.
- RELOCATE EXISTING GPS ANTENNA TO EXISTING EQUIPMENT MOUNTING FRAME AS SHOWN.
- INSTALL PIPE TO PIPE STANDOFF KITS c/w NEW ANTENNA MOUNTING PIPES AS SHOWN
- REMOVE ALL EXISTING AT&T UMTS COAX CABLING.
- INSTALL (1) PROPOSED NOKIA AEQK ACTIVE ANTENNA c/w INTEGRATED RADIO, TYP. PER SECTOR.
- INSTALL (1) PROPOSED DC6-48-60-18-8C-EV SURGE SUPPRESSOR, TYP. PER SECTOR.
- INSTALL (3) NEW PIPE MOUNTS FOR RRH AND SURGE SUPPRESSOR MOUNTING, TYP. PER SECTOR.

PROPOSED ANTENNA CONFIGURATION AND SCHEDULE DATA WAS OBTAINED FROM AT&T RF DATA SHEET (DATED 10/28/2021) RFDS VERSION 2.0



PROJECT NO: 2152U145
 DRAWN BY: MP
 CHECKED BY: LC

SUBMITTALS

0 MAR 24/22	FINAL CD's	AF
C MAR 23/22	REVISED RRH MOUNTING	AF
B MAR 14/22	REVISED PER COMMENTS	AF
A FEB 10/22	ISSUED FOR 90% REVIEW	MP

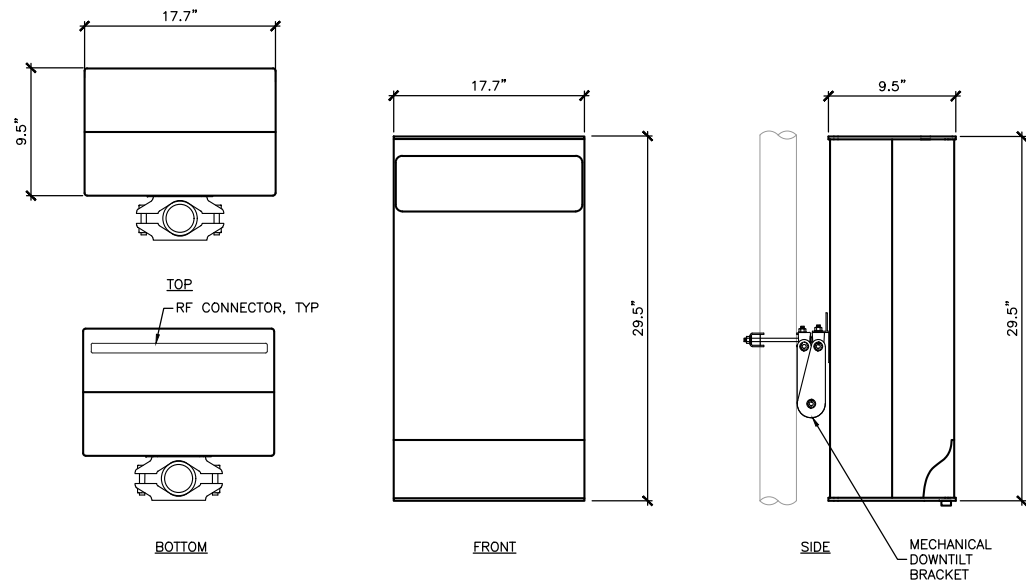
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SITE
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 WA 98040
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SHEET TITLE
 PROPOSED ANTENNA CONFIGURATIONS II

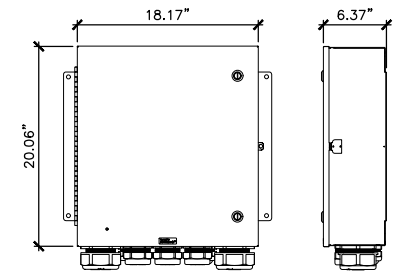
SHEET NUMBER
 RF-2



MANUFACTURER: NOKIA
 MODEL: AEQK
 WEIGHT: 99.2 LBS
 DIMENSIONS: 29.5" X 17.7" X 9.5"

***ASSUMED ANTENNA SKETCH ONLY WILL UPDATE WHEN INFORMATION IS RECEIVED

1 ANTENNA DETAIL
 N.T.S.



MANUFACTURER: RAYCAP
 MODEL: DC6-48-60-18
 HEIGHT: 20.06"
 WIDTH: 18.17"
 DEPTH: 6.37"
 WEIGHT: 34.9 LBS

2 SURGE SUPPRESSOR DETAIL
 N.T.S.



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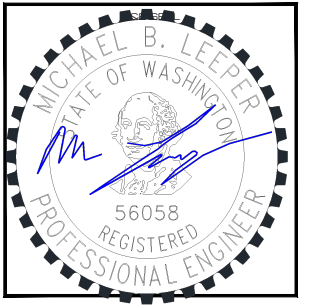
DRAWN BY: MP.

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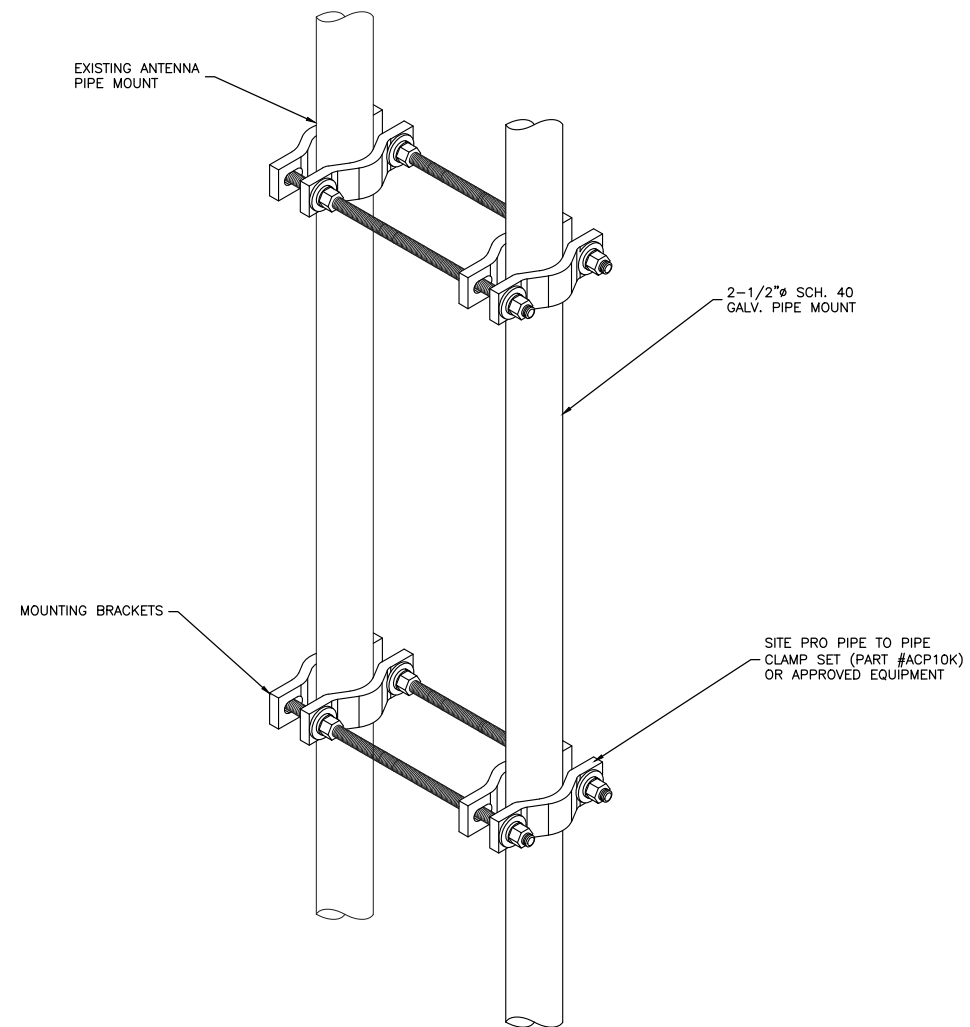


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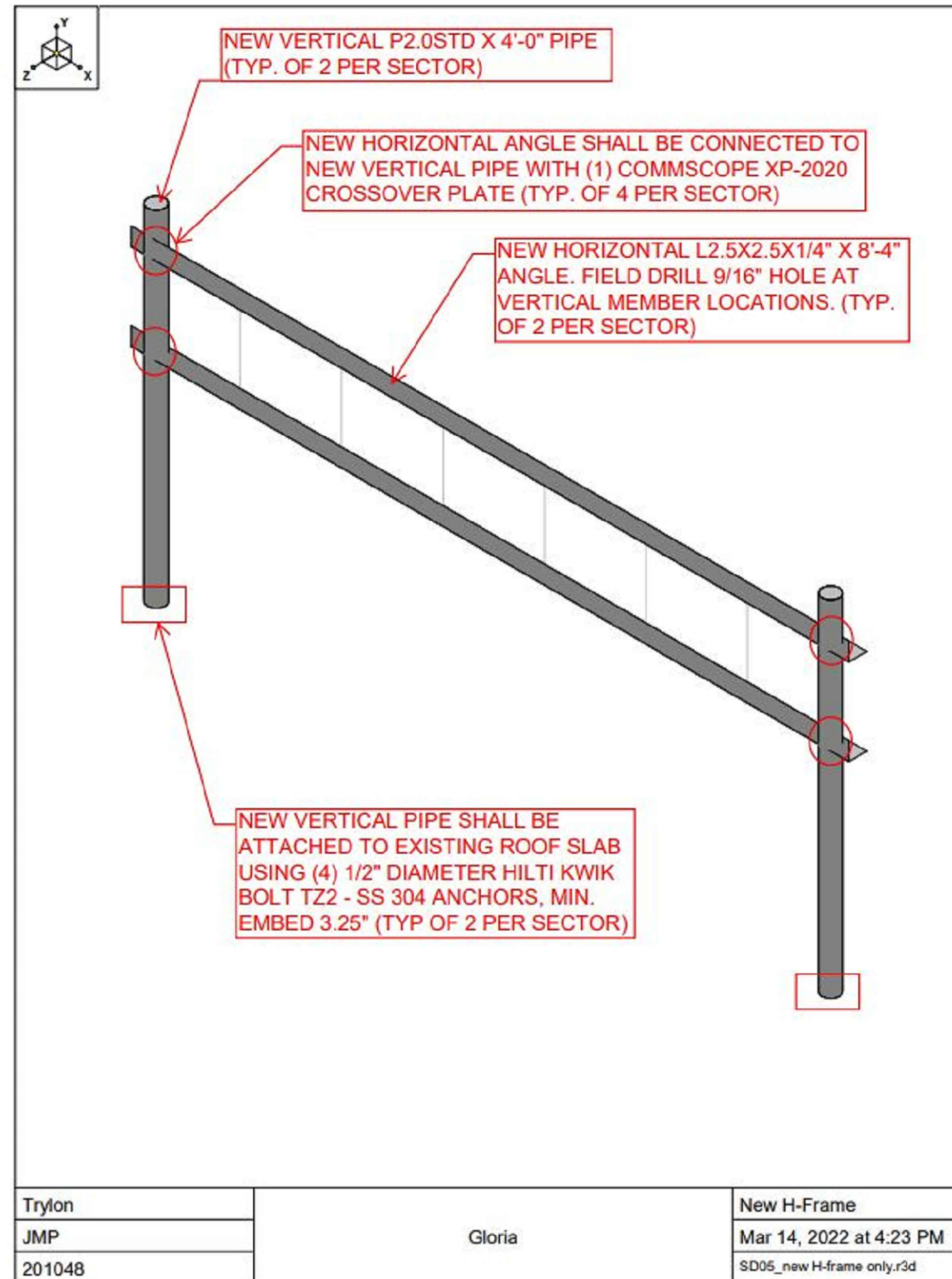
FA #: 10092489

SHEET TITLE
 RF & EQUIPMENT
 DETAILS

SHEET NUMBER
 RF-3



1 PIPE TO PIPE DETAIL
- N.T.S.



Trylon	Gloria	New H-Frame
JMP		Mar 14, 2022 at 4:23 PM
201048		SD05_new H-frame only.r3d

2 RRH MOUNT DETAILS
- N.T.S.

NOTES:

1. REFER TO GN-1 & GN-2 FOR SPECIFICATIONS.
2. CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION. REPORT ANY DISCREPANCIES TO THE ENGINEER.



PROJECT NO: 2152U145

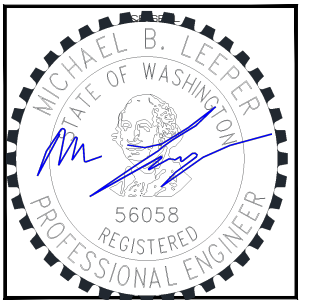
DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

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SD05
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MERCER ISLAND,
WA 98040

FA #: 10092489

SHEET TITLE
STRUCTURAL DETAILS

SHEET NUMBER
S-1

GENERAL NOTES:

- EXAMINE THE SITE CONDITIONS VERY CAREFULLY AND THE SCOPE OF PROPOSED WORK TOGETHER WITH THE WORK OF ALL OTHER TRADES AND INCLUDE IN THE BID PRICE ALL COSTS FOR WORK SUCH AS EQUIPMENT AND WIRING MADE NECESSARY TO ACCOMMODATE THE ELECTRICAL SYSTEMS SHOWN AND SYSTEMS OF OTHER TRADES.
- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT
- PERFORM DETAILED VERIFICATION OF WORK PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND COMMENCING CONSTRUCTION. ISSUE A WRITTEN NOTICE TO THE CONSULTANT OF ANY DISCREPANCIES.
- OBTAIN ALL PERMITS, PAY ASSOCIATED FEES AND SCHEDULE INSPECTION.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INSURANCE, AND SERVICES TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND PRESENT IT AS FULLY OPERATIONAL TO THE SATISFACTION OF THE OWNER.
- CARRY OUT WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
- PRIOR TO BEGINNING WORK COORDINATE ALL POWER AND TELCO WORK WITH THE LOCAL UTILITY COMPANY AS IT MAY APPLY TO THIS SITE. ALL WORK TO COMPLY WITH THE RULES AND REGULATIONS OF THE UTILITIES INVOLVED.
- FABRICATION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN A FIRST CLASS WORKMANSHIP PER NECA STANDARD 1-2000 BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK AND SHALL SCHEDULE THE WORK IN AN ORDERLY MANNER SO AS NOT TO IMPEDE PROGRESS OF THE PROJECT.
- DURING PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF THE ELECTRICAL SYSTEMS, LOCATING EACH CIRCUIT PRECISELY AND DIMENSIONING EQUIPMENT, CONDUIT AND CABLE LOCATIONS. UPON COMPLETION OF THE INSTALLATION, TRANSFER ALL RECORD DATA TO BLACK LINE PRINTS OF THE ORIGINAL DRAWINGS AND SUBMIT THESE DRAWINGS AS RECORD DRAWINGS TO THE CONSULTANT.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR REQUESTING CONNECTION OF COMMERCIAL POWER FROM THE POWER COMPANY. ELECTRICAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
- COORDINATE EXACT TELEPHONE REQUIREMENTS AND SERVICE ROUTING WITH LOCAL TELEPHONE COMPANY. APPLY FOR TELEPHONE SERVICE IMMEDIATELY UPON AWARD OF CONTRACT.

BASIC MATERIALS AND METHODS:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE EDITION OF THE NEC ACCEPTED BY THE LOCAL JURISDICTION AND TO THE APPLICABLE LOCAL CODES AND REGULATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW. MATERIALS AND EQUIPMENT SHALL BE THE STANDARD PRODUCTS OF MANUFACTURER'S CURRENT DESIGN. ANY FIRST-CLASS PRODUCT MADE BY A REPUTABLE MANUFACTURER MAY BE USED PROVIDING IT CONFORMS TO THE CONTRACT REQUIREMENTS AND MEETS THE APPROVAL OF THE CONSULTANT AND THE OWNER.
- ARRANGE CONDUIT, WIRING, EQUIPMENT, AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLEARANCES AND ACCESS. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND FIT THE WORK IN EACH LOCATION WITHOUT SUBSTANTIAL ALTERATION. WHERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE.
- THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- MAINTAIN ALL CLEARANCES AS REQUIRED BY NEC.
- SEAL AROUND CONDUITS AND AROUND CONDUCTORS WITHIN CONDUITS ENTERING THE MODULAR CABINETS WHERE PENETRATION OCCURS WITH A SILICONE SEALANT TO PREVENT MOISTURE PENETRATION INTO BUILDING.
- SILICONE SEAL AROUND ALL BOLTS AND SCREWS USED TO SECURE EQUIPMENT TO EXTERIOR OF BUILDING.
- MAKE NECESSARY CONNECTIONS FOR BATTERY IN EMERGENCY LIGHT FIXTURE. CONNECT EXTERIOR LIGHT FIXTURE (PROVIDED BY SHELTER MANUFACTURER) TO EXTERNAL JUNCTION BOX.

CONDUCTORS AND CONNECTORS:

- UNLESS NOTED OTHERWISE, ALL CONDUCTORS SHALL BE COPPER, MINIMUM SIZE #12 AWG, WITH THERMOPLASTIC INSULATION CONFORMING TO NEMA WC5 OR CROSS-LINKED POLYETHYLENE INSULATION CONFORMING TO NEMA WC7. (TYPES THHN OR THWN). INSULATION SHALL BE RATED FOR 90 CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC.
- ALL CONDUCTORS USED FOR GROUNDING SHALL BE COPPER AND SHALL HAVE GREEN INSULATION.
- FOR COPPER CONDUCTORS #6 AWG AND SMALLER USE 3M SCOTCH-LOK OR T&B STA-KON COMPRESSION TYPE CONNECTORS WITH INTEGRAL OR SEPARATE INSULATION CAPS. FOR COPPER CONDUCTORS LARGER THAN #6 AWG USE SOLDERLESS, IDENT HEX SCREW OR BOLT TYPE PRESSURE CONNECTORS OR DOUBLE COMPRESSION C-CLAMP CONNECTORS, UNLESS SPECIFIED OTHERWISE ON DRAWINGS.
- UNLESS NOTED OTHERWISE ALL LUGS SHALL BE TIN PLATED COPPER, TWO-HOLE, LONG BARREL, COMPRESSION TYPE.

RACEWAYS AND BOXES:

- ALL CONDUIT SHALL BE UL LABELED.
- ALL EMPTY CONDUITS INSTALLED FOR FUTURE USE SHALL HAVE A PULL CORD.
- SHEET METAL BOXES SHALL CONFORM TO NEMA OS1; CAST-METAL BOXES SHALL CONFORM TO NEMA 81 AND SHALL BE SIZED IN ACCORDANCE WITH NEC UNLESS NOTED OTHERWISE.

GROUNDING:

- ALL SAFETY GROUNDING OF THE ELECTRICAL EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REVISION NEC.
- GROUND LUGS ARE SPECIFIED UNDER SECTION 3 "CONDUCTORS AND CONNECTORS".
- ALL GROUND LUG AND COMPRESSION CONNECTIONS SHALL BE COATED WITH ANTI-OXIDANT AGENT, SUCH AS NO-OX, NOALOX, PENETROX OR KOPRSHIELD.
- GROUND ALL EXPOSED METALLIC OBJECTS ON BUILDING EXTERIOR INCLUDING BUILDING TIE DOWN BRACKETS.
- PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- DO NOT INSTALL GROUND RING OUTSIDE OF PROPERTY LINE.
- REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS, REPAINT TO MATCH AFTER CONNECTION IS MADE TO MAINTAIN CORROSION RESISTANCE.
- ALL EXTERIOR GROUNDING CONDUCTORS INCLUDING EXTERIOR GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE ANGLE OF ANY BEND SHALL NOT EXCEED 90°. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
- REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING WITH ERICO T-319 GALVANIZING BAR.
- ALL GROUND CONNECTIONS SHALL BE APPROVED FOR THE METALS BEING CONNECTED.
- ALL EXTERNAL GROUND CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. ALL EXOTHERMIC WELDS TO EXTERIOR GROUND RING SHALL BE THE PARALLEL TYPE. EXCEPT FOR THE GROUND RODS WHICH ARE TEE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING. USE SPRAY GALVANIZER SUCH AS HOLUL LECTROSOL #15-501.
- CONTRACTOR SHALL NOTIFY AT&T WHEN THE BURIED GROUND RING IS INSTALLED SO THE REPRESENTATIVE CAN INSPECT THE GROUND RING BEFORE IT IS BACKFILLED WITH SOIL. CONTACT: AT&T PROJECT MGR.
- FOR METAL FENCE POST GROUNDING, USE A HEAVY DUTY TYPE GROUNDING CLAMP OR EXOTHERMIC WELD CONNECTION TO POST.
- WHERE MECHANICAL CONNECTORS (TWO-HOLE OR CLAMP) ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO OXIDE A" BY DEARBORN CHEMICAL COMPANY ON ALL CONNECTORS.
- BOND ALL EXTERIOR CONDUITS, PIPES AND CYLINDRICAL METALLIC OBJECTS WITH A PENN-UNION GT SERIES CLAMP, BLACKBURN GUV SERIES CLAMP OR A BURNDY GAR 3900BU SERIES CLAMP ONLY, NO SUBSTITUTES ACCEPTED.



AT&T MOBILITY
RTC BUILDING 3
18221 NE 72nd WAY
REDMOND, WA 98052



13555 SE 36TH ST SUITE 100
BELLEVUE, WA 98006



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BELLEVUE, WA 98006

PROJECT NO: 2152U145

DRAWN BY: MP.

CHECKED BY: LC.

SUBMITTALS

O	MAR 24/22	FINAL CD'S	AF
C	MAR 23/22	REVISED RRR MOUNTING	AF
B	MAR 14/22	REVISED PER COMMENTS	AF
A	FEB 10/22	ISSUED FOR 90% REVIEW	MP

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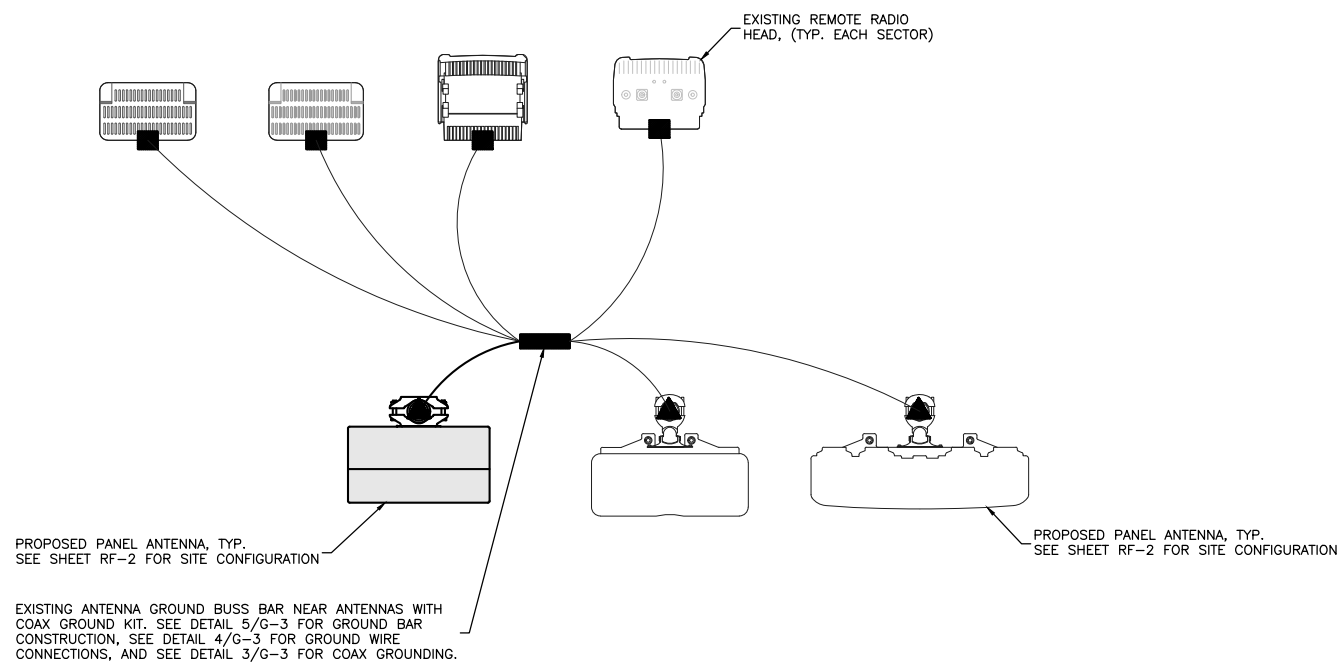


SITE
MERCER ISLAND
SD05
7900 SE 28TH ST
MERCER ISLAND,
WA 98040

FA #: 10092489

SHEET TITLE
GROUNDING NOTES

SHEET NUMBER
G-1



1 TYPICAL ANTENNA GROUNDING PLAN
- N.T.S.

GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. 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 MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
3. ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY NETWORK CARRIER REPRESENTATIVE.
5. REFER TO CURRENT NEL; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
6. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

GROUNDING 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. 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 MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.



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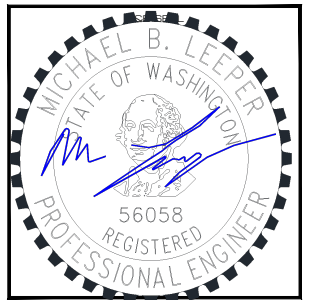
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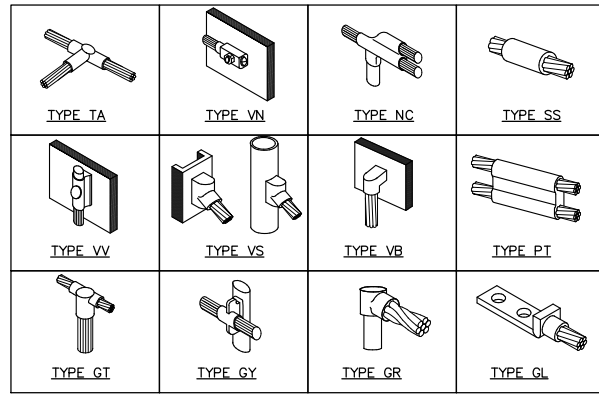
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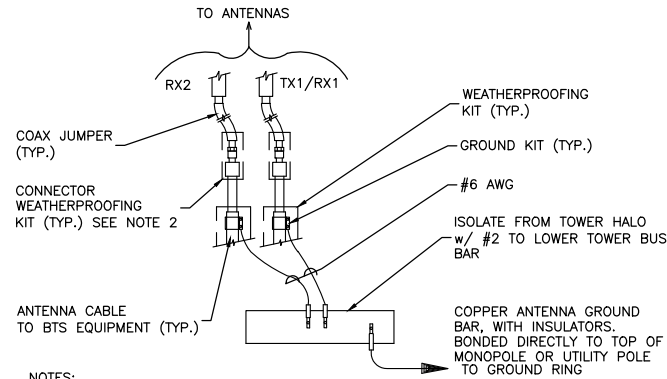
SITE
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MERCER ISLAND,
WA 98040
FA #: 10092489

SHEET TITLE
SCHEMATIC
GROUNDING PLAN

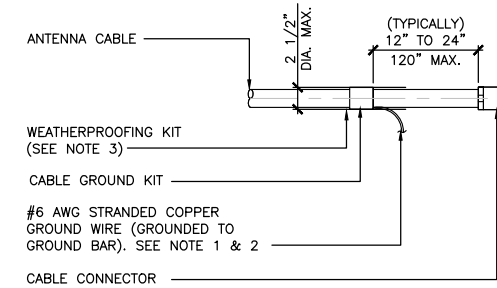
SHEET NUMBER
G-2



1 CADWELD GROUNDING CONNECTIONS
N.T.S.

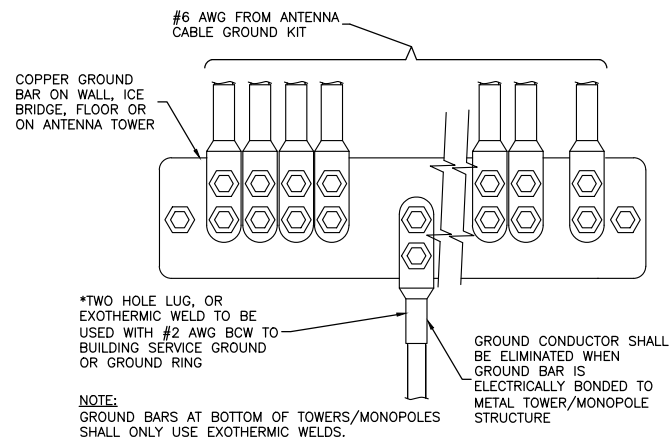


2 GROUND CABLE CONNECTION
N.T.S.

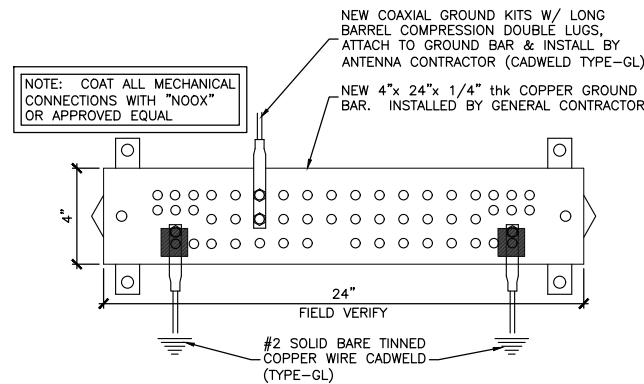


- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

3 CABLE GROUND KIT CONNECTION
N.T.S.



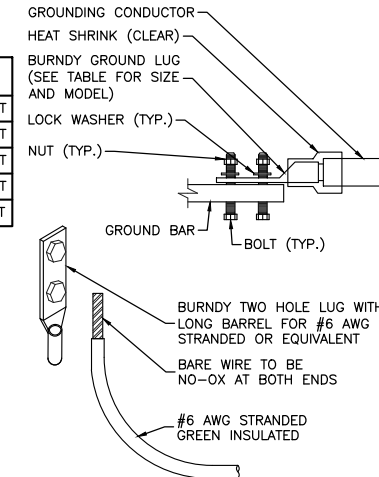
4 GROUND WIRE INSTALLATION
N.T.S.



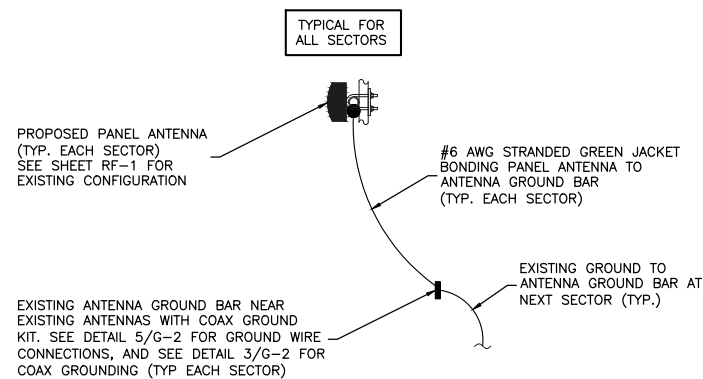
5 GROUND BAR
N.T.S.

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

- NOTES:
- 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.
 - COPPER SHIELD, ANTIOX, CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
 - ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



6 MECHANICAL LUG CONNECTION
N.T.S.



7 TYPICAL ANTENNA GROUNDING PLAN
N.T.S.



PROJECT NO: 2152U145

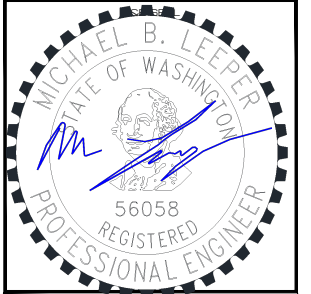
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G-3