



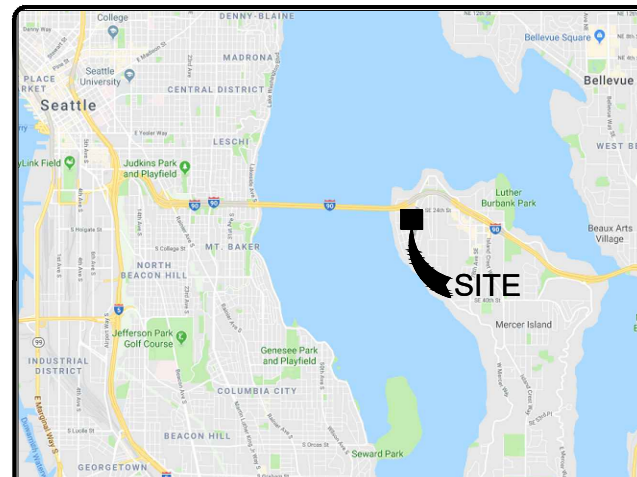
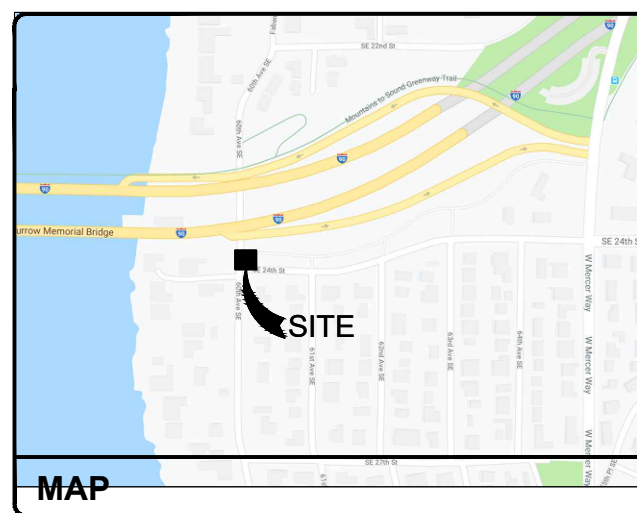
# at&t

**SITE NUMBER:****SD42****SITE NAME:****WEST MERCER TUNNEL****ADDRESS:****2250 60TH AVENUE SOUTHEAST  
MERCER ISLAND, WA 98040****SITE TYPE:****ROOFTOP****FA#:****10092732****PACE#:****MRWOR052380****PROJECT:****5G NR 1 SR CBand, 5G NR RADIO**AT&T MOBILITY  
RTC BUILDING 3  
18221 NE 72nd WAY  
REDMOND, WA 9805222263 68th AVE S  
KENT, WA 9803216212 Bothell-Everett Hwy  
Suite F304,  
Mill Creek, WA 98012

PTN#1	3801A0YF4T	PACE JOB #1	MRWOR052380
PTN#2	3801A0YZTL	PACE JOB #2	MRWOR051848

**PTN/PACE JOB#****DO NOT SCALE DRAWINGS**CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS,  
CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE  
ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE  
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAMEALL WORK AND MATERIALS SHALL BE PERFORMED AND 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 CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.2018 INTERNATIONAL BUILDING CODE  
2018 INTERNATIONAL RESIDENTIAL CODE  
2018 INTERNATIONAL MECHANICAL CODE  
2018 NATIONAL ELECTRIC CODE**ACCESSIBILITY REQUIREMENTS:**FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS  
REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2013 CBC BUILDING CODE.**CODE BLOCK**

APPROVAL	SIGNATURE	DATE
SITE ACQUISITION MANAGER		
CONSTRUCTION MANAGER		
A&E MANAGER		
PLANNING CONSULTANT		
RF MANAGER		
RF ENGINEER		
PROPERTY OWNER		
AT&T REPRESENTATIVE		
AAV MANAGER		

**SIGNATURE BLOCK****VICINITY MAP****MAP**ENTIRE SEC LESS STS LESS GOV CANAL & LESS POR PLATTED TGW POR  
VAC ST ADJ & ABANDONED R/W OVER SECTION & TGW ALL BLK 6 IN LK  
WASHINGTON SHORE LANDS ADD & POR GL 2 (IN SEC 15-25-4) LY S OF  
41ST ST & W OF W MGN OF SERBER DR TGW ALL BLK 18 A & POR VAC ST  
ADJ & ALL BLK 18 LK UNION SH LDS ADD TGW 15TH AVE NE PER SEATTLE  
VAC ORD #120249 REC #20000825000511 LESS POR PER DEED REC  
#8611180561**LEGAL DESCRIPTION**
**PROJECT INFORMATION:**  
 PROPERTY/ OWNER: WSDOT REAL ESTATE SERVICES  
PO BOX 47338  
OLYMPIA, WA 98504  
CONTACT: PATRICK SULLIVAN  
  
 LATITUDE: 47° 35' 21.30" N (47.58925)  
 LONGITUDE: 122° 15' 8.60" W (-122.25239)  
 JURISDICTION: CITY OF MERCER ISLAND  
 ZONING DISTRICT: P.PUBLIC INSTITUTION  
 EXISTING USE: UNMANNED TELECOMMUNICATIONS FACILITY  
 PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY  
 OCCUPANCY: N/A  
 CONSTRUCTION TYPE: VB  
 PARCEL#: RIGHT OF WAY
**PROJECT SUMMARY**
**CONSTRUCTION MANAGER:**  
MASTEC NETWORK SOLUTIONS  
22263 68th AVE S.  
KENT, WA 98032  
MIKE SUTHERBY  
(253)579-3503  
  
**CONSULTING ENGINEER:**  
SALAGA DESIGN  
16212 BOTHELL-EVERETT HWY  
SUITE F304,  
MILL CREEK, WA 98012  
VLAD DIACONU  
(216)375-2310  
  
**SITE ACQ.PROJECT MANAGER:**  
MASTEC NETWORK SOLUTIONS  
22263 68th AVE S.  
KENT, WA 98032  
DOUGLAS KONRATH  
(314)406-3047  
  
**STRUCTURAL ENGINEER:**  
MASTEC NETWORK SOLUTIONS  
507 AIRPORT BLVD., SUITE III  
MORRISVILLE, NC. 27560,  
RAPHAEL MOHAMAD  
(919)674-5895
**PROJECT TEAM**TAKE I-5 NORTH TO I-90. FOLLOW I-90 EAST TO EXIT #6 WEST MERCER  
WAY. TURN RIGHT ON W. MERCER WAY AND TAKE TO SE 24TH ST. TURN  
RIGHT ON SE 24TH AND FOLLOW DOWN HILL TO 60TH AVE SE. SITE IS THE  
FARTHEST SITE TO THE SOUTH.**DRIVING DIRECTIONS**

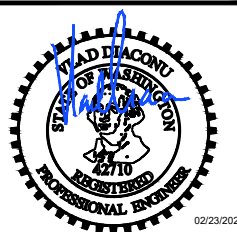
- REMOVE (2) COMMSCOPE SBJA-1D65B-DL ANTENNAS
- REMOVE (1) KATHREIN 80010865 ANTENNA
- REMOVE (1) DC-6 SURGE PROTECTOR
- REMOVE (2) NORTEL NTU M35AA\_(U9) TMA
- REMOVE 850 & 1900 UMTS EQUIPMENT FROM PLUMBING
- INSTALL (1) NOKIA AEQK ANTENNA WITH INTEGRATED RRH
- INSTALL (1) CELLMAX CMA-UBTMLBMLBHH-6516-16-21-21 ANTENNA
- INSTALL (1) COMMSCOPE NNH4-65B-R6 ANTENNA

**SCOPE OF WORK**

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	NOTES & LEGEND
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EQUIPMENT LAYOUT
A-4	SOUTH ELEVATION
A-5	EXISTING ANTENNA CONFIGURATION
A-6	PROPOSED ANTENNA CONFIGURATION
A-7	DETAILS
G-1	GROUNDING PLANS
G-2	GROUNDING DETAILS
RF-1	RF DETAILS

**SHEET INDEX****DIG ALERT**Know what's below.  
CALL before you dig.CALL AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG

REV	DATE	DESCRIPTION	BY
0	2/23/2022	100% CD	CG
B	2/22/2022	REV 90% CD	CG
A	11/01/2021	90% CD	CG

IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.SITE  
SD42  
WEST MERCER TUNNEL  
2250 60TH AVENUE SOUTHEAST  
MERCER ISLAND, WA 98040

SHEET TITLE

**TITLE  
SHEET**

SHEET NUMBER

**T-1**

- THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2015 INTERNATIONAL BUILDING CODE SECTION 1103.2.9. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/THIRD DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST I.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE MOST RESTRICTIVE CODE SHALL GOVERN.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- PROPOSED CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A-10-B-C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. (2015 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)
- MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
- SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- ALL FACILITIES TO BE INSTALLED ARE UNMANNED. NO (E) PARKING SPACES WILL BE USED OR REMOVED BY THIS PROJECT.
- PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY TO COMPLY WITH THE CITY'S MUNICIPAL CODES INTO THE CONSTRUCTION PLANS OR SPECIFICATIONS.
- PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN (WPCP). THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE GUIDELINES IN APPENDIX E OF THE CITY'S STORM WATER STANDARDS.
- THIS PROJECT PROPOSES NO DEVELOPMENT IMPROVEMENTS OUTSIDE THE EXISTING BUILDING FOOTPRINT FOR THIS DISCRETIONARY REVIEW AND THEREFORE DOES NOT REQUIRE ANY PERMANENT STORM WATER BEST MANAGEMENT PRACTICES.
- THIS IS ROOFTOP INSTALLATION ON AN EXISTING FACILITY AND NO GROUND DISTURBANCE OR TRENCHING IS PROPOSED BY THIS PROJECT.
- THIS PROJECT PROPOSES NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

**STORM WATER QUALITY NOTES CONSTRUCTION BMPs:**

- THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT.  
 NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMPs.
- SUFFICIENT BMPs MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMPs.
  - ALL STOCK PILES OF UN-COMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS. SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS 40% OR GREATER.
  - A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
  - ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
  - ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
  - THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

**GENERAL FIRE NOTES:**

- BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2015 INTERNATIONAL BUILDING CODE AND ALL GOVERNING CODES.
- ADDRESS SHALL BE PROVIDED FOR ALL PROPOSED AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. (2015 INTERNATIONAL BUILDING CODE 501.2)
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. (2015 INTERNATIONAL BUILDING CODE 806.1)
- PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B-C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. (2015 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)

**GENERAL NOTES**

**ABBREVIATION DEFINITION**

A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECTURAL
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTWCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
BU	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
d	PENNY (NAILS)
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXST.(E)	EXISTING
EXT.	EXTERIOR

**ABBREVIATION DEFINITION**

FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(')	FOOT(FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GLB.(GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDR.	HEADER
HGR.	HANGER
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN.(")	INCHES
INT.	INTERIOR
LB.(#)	LAG BOLTS
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY.	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED

**LANDLORD SIGNATURE**

**ABBREVIATION DEFINITION**

PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REIN.F.	REINFORCEMENT(ING)
REQ'D.	REQUIRED
RGS.	RIGID GALVANIZED STEEL
R.R.U.	RADIO REMOTE UNIT
SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION(S)
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
TMA	TOWER MOUNTED AMPLIFIER
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE(WIDTH)
W/	WITH
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
℄	CENTERLINE
℄	PLATE



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



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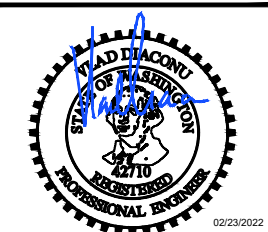
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**ABBREVIATIONS**

	NEW ANTENNA		GRID REFERENCE		CENTERLINE
	EXISTING ANTENNA		DETAIL REFERENCE		PROPERTY/LEASE LINE
	GROUND ROD		ELEVATION REFERENCE		MATCH LINE
	GROUND BUS BAR		SECTION REFERENCE		WORK POINT
	MECHANICAL GRND. CONN.		GROUT OR PLASTER		GROUND CONDUCTOR
	CADWELD		(E) BRICK		TELEPHONE CONDUIT
	GROUND ACCESS WELL		(E) MASONRY		ELECTRICAL CONDUIT (POWER)
	ELECTRIC BOX		CONCRETE		COAXIAL CABLE
	TELEPHONE BOX		EARTH		FIBER
	LIGHT POLE		GRAVEL		POWER AND FIBER
	FND. MONUMENT		PLYWOOD		OVERHEAD SERVICE CONDUCTORS
	SPOT ELEVATION		SAND		CHAIN LINK FENCING
	SET POINT		WOOD CONT.		WOOD FENCE
	REVISION		WOOD BLOCKING		OVERHEAD POWER LINE
			STEEL		BURIED POWER LINE

**1**

0	2/23/2022	100% CD	CG
B	2/22/2022	REV 90% CD	CG
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REV	DATE	DESCRIPTION	BY



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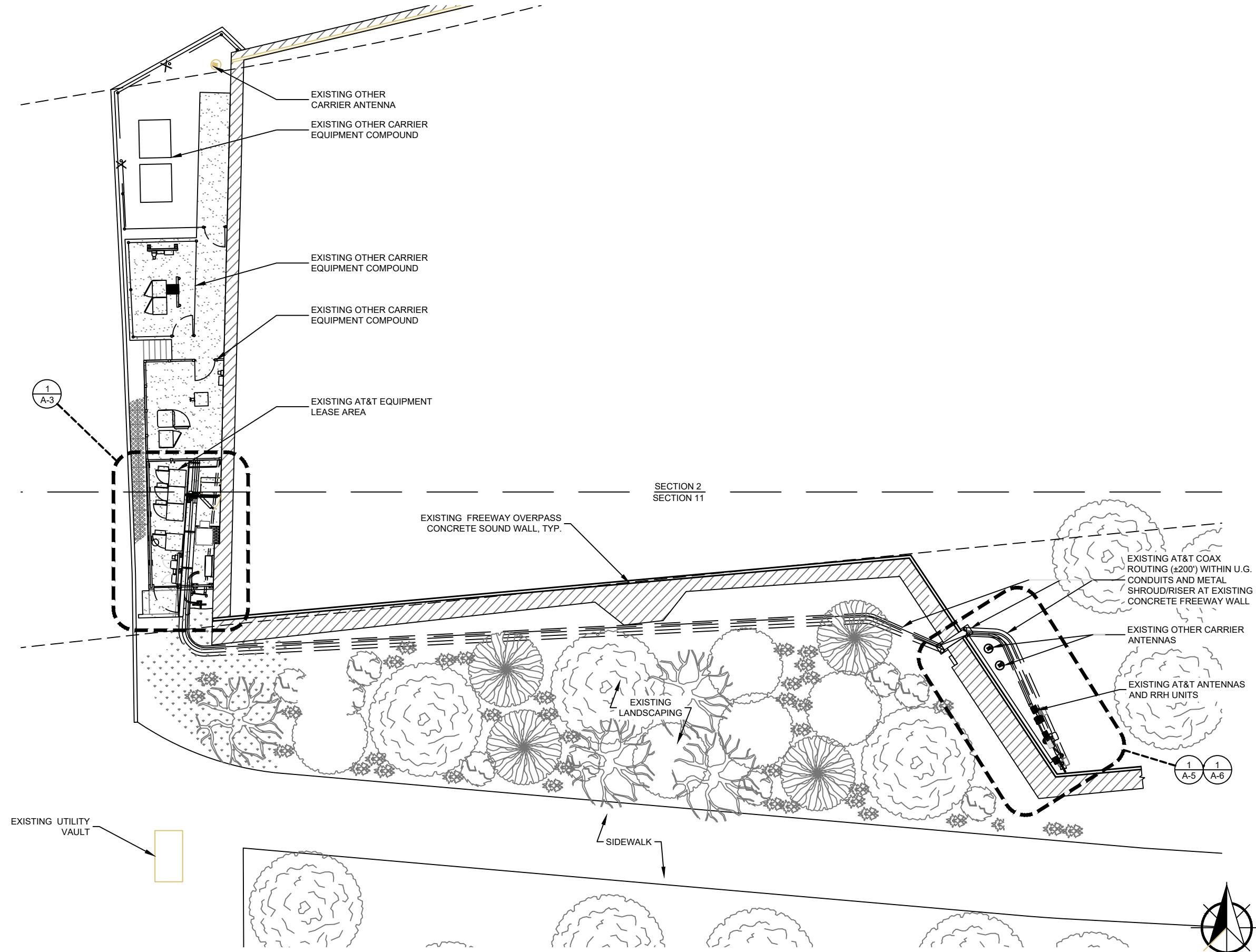
SHEET TITLE  
**GENERAL NOTES**

SHEET NUMBER  
**T-2**

**LEGEND**

**2**





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 2250 60TH AVENUE SOUTHEAST  
 MERCER ISLAND, WA 98040

SHEET TITLE  
**ENLARGED  
 SITE PLAN**

SHEET NUMBER  
**A-2**



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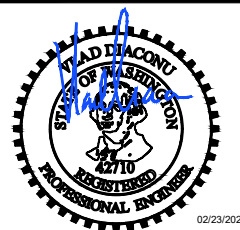


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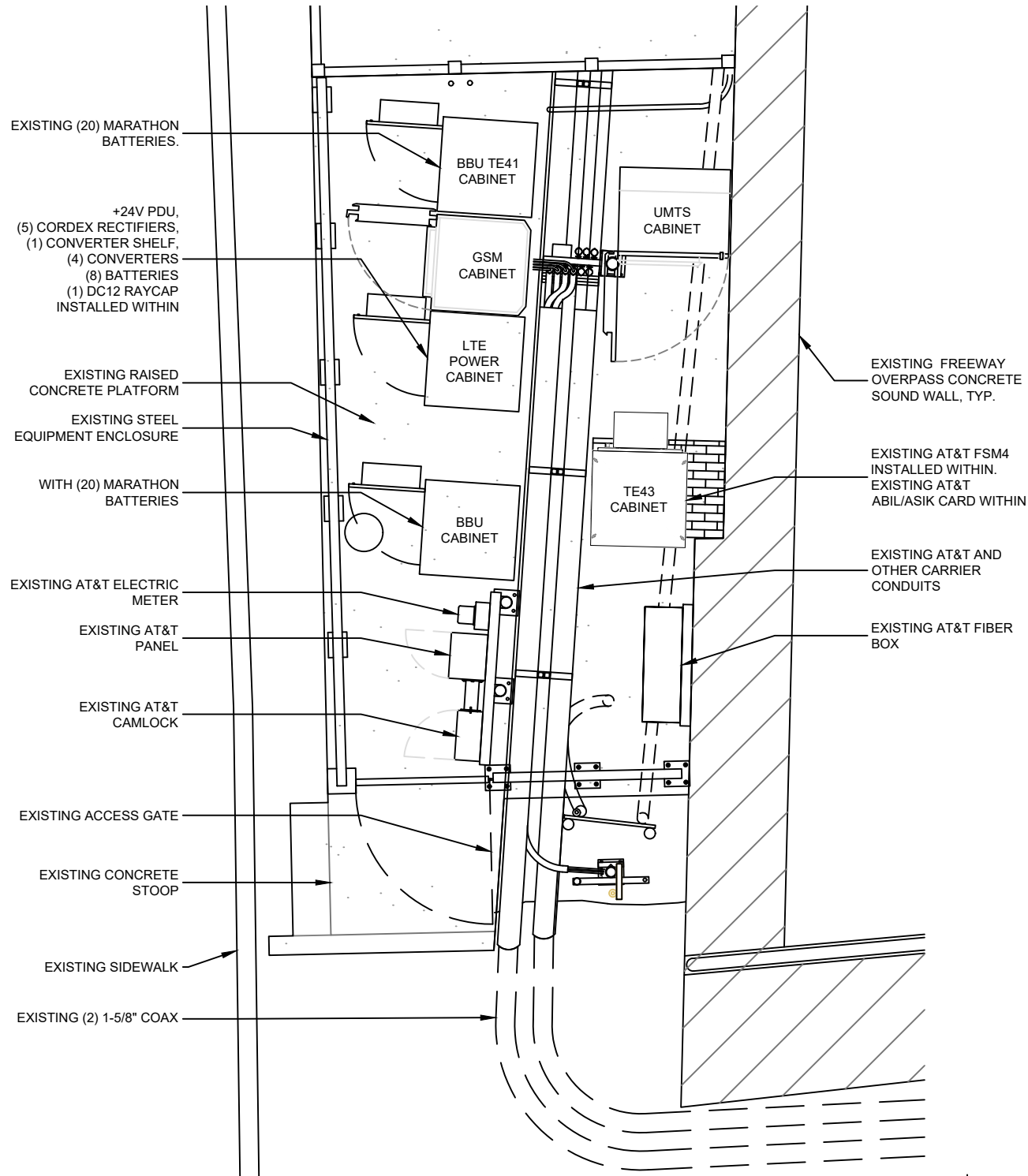
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WEST MERCER TUNNEL  
2250 60TH AVENUE SOUTHEAST  
MERCER ISLAND, WA 98040

SHEET TITLE

**EQUIPMENT LAYOUT**

SHEET NUMBER

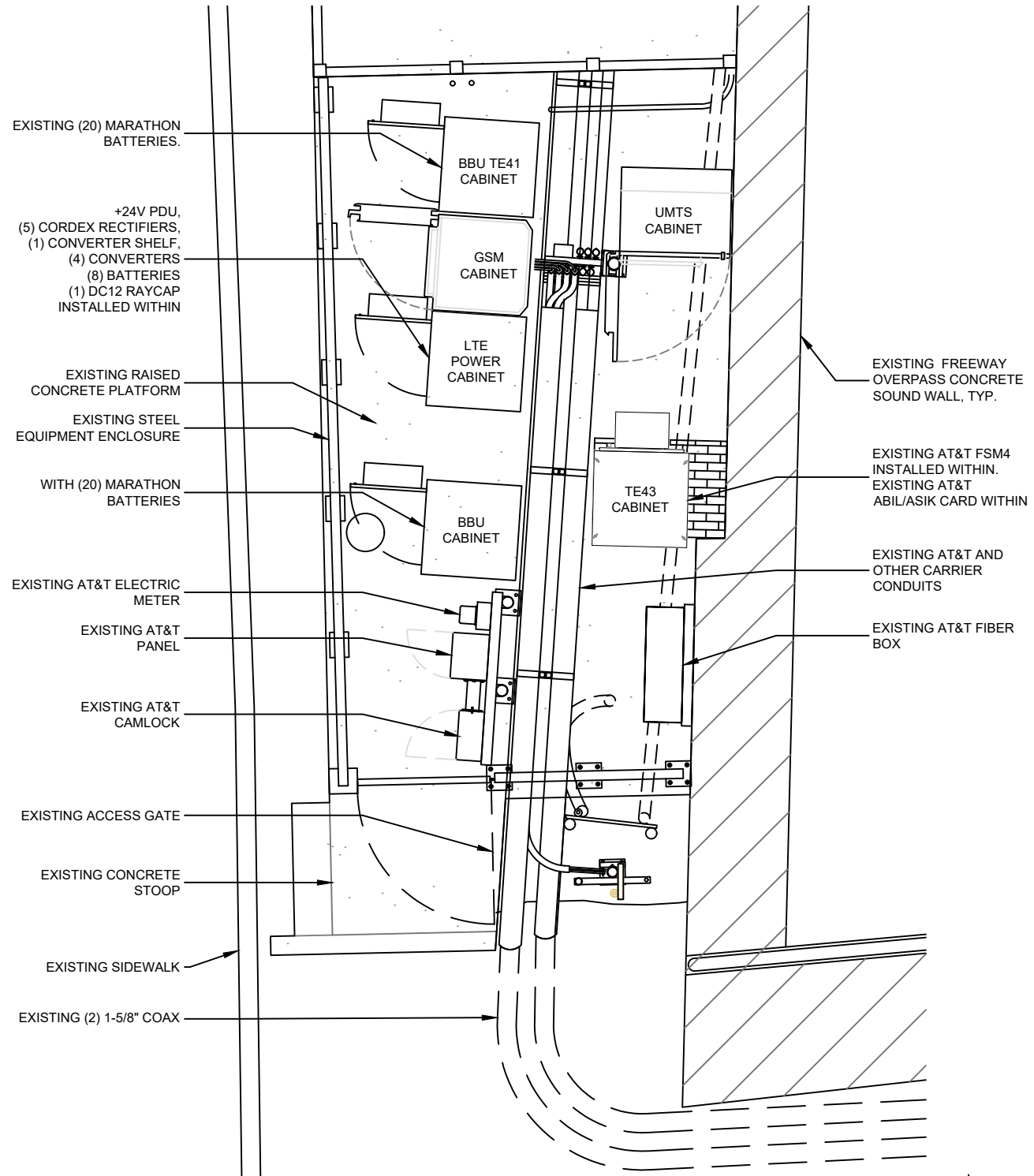
**A-3**



**EXISTING SITE LAYOUT**

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)  
(OR) 1/8" = 1'-0" (11x17)

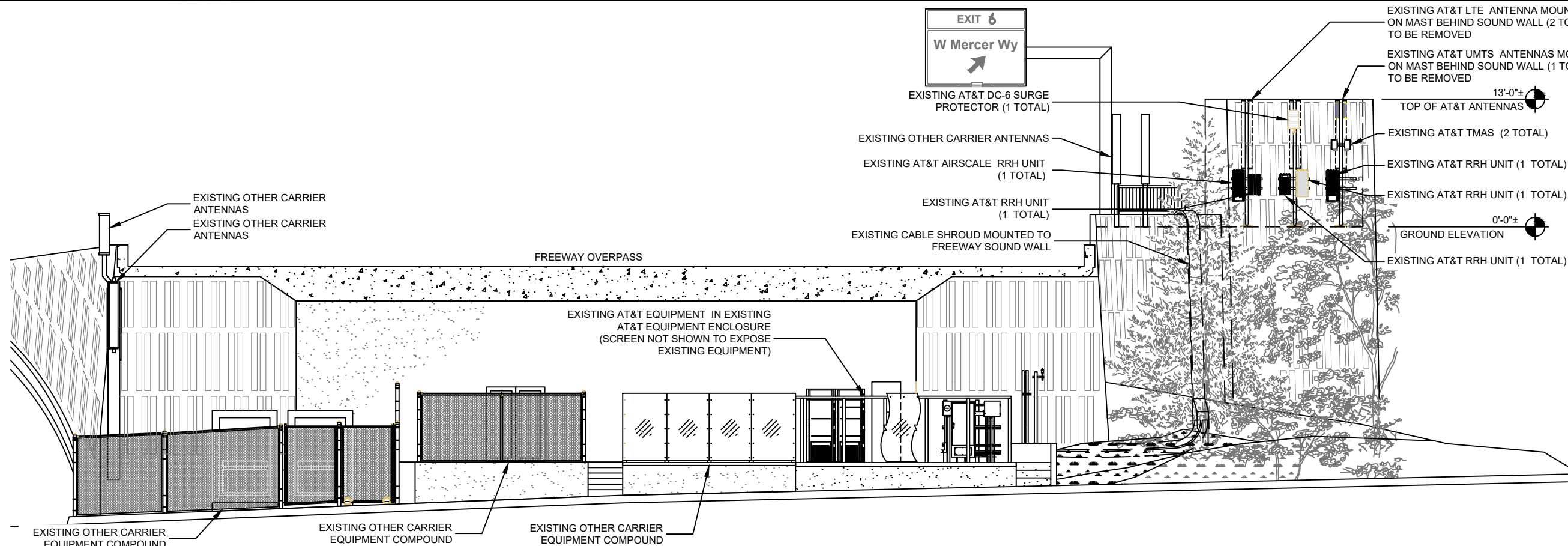
**1**



**PROPOSED SITE LAYOUT**

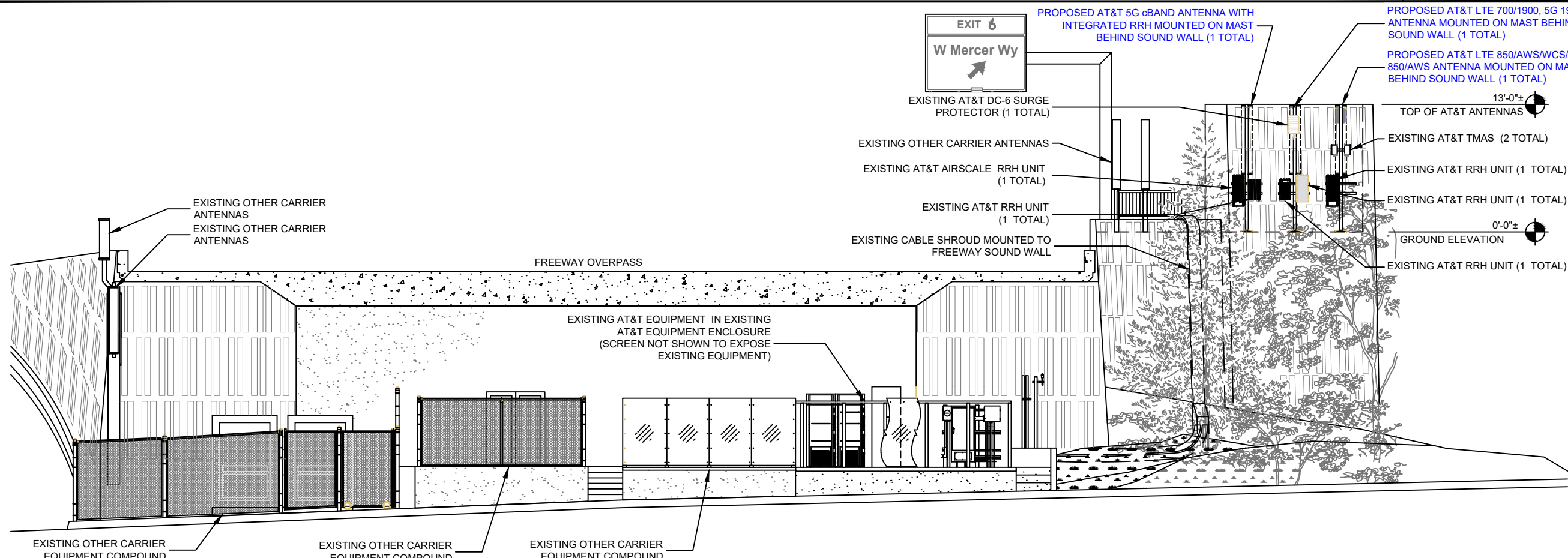
0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)  
(OR) 1/8" = 1'-0" (11x17)

**2**



**EXISTING SOUTH ELEVATION**

0 3' 6" 11" SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17) **1**



**PROPOSED SOUTH ELEVATION**

0 3' 6" 11" SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17) **2**

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REV	DATE	DESCRIPTION	BY
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B	2/22/2022	REV 90% CD	CG
A	11/01/2021	90% CD	CG

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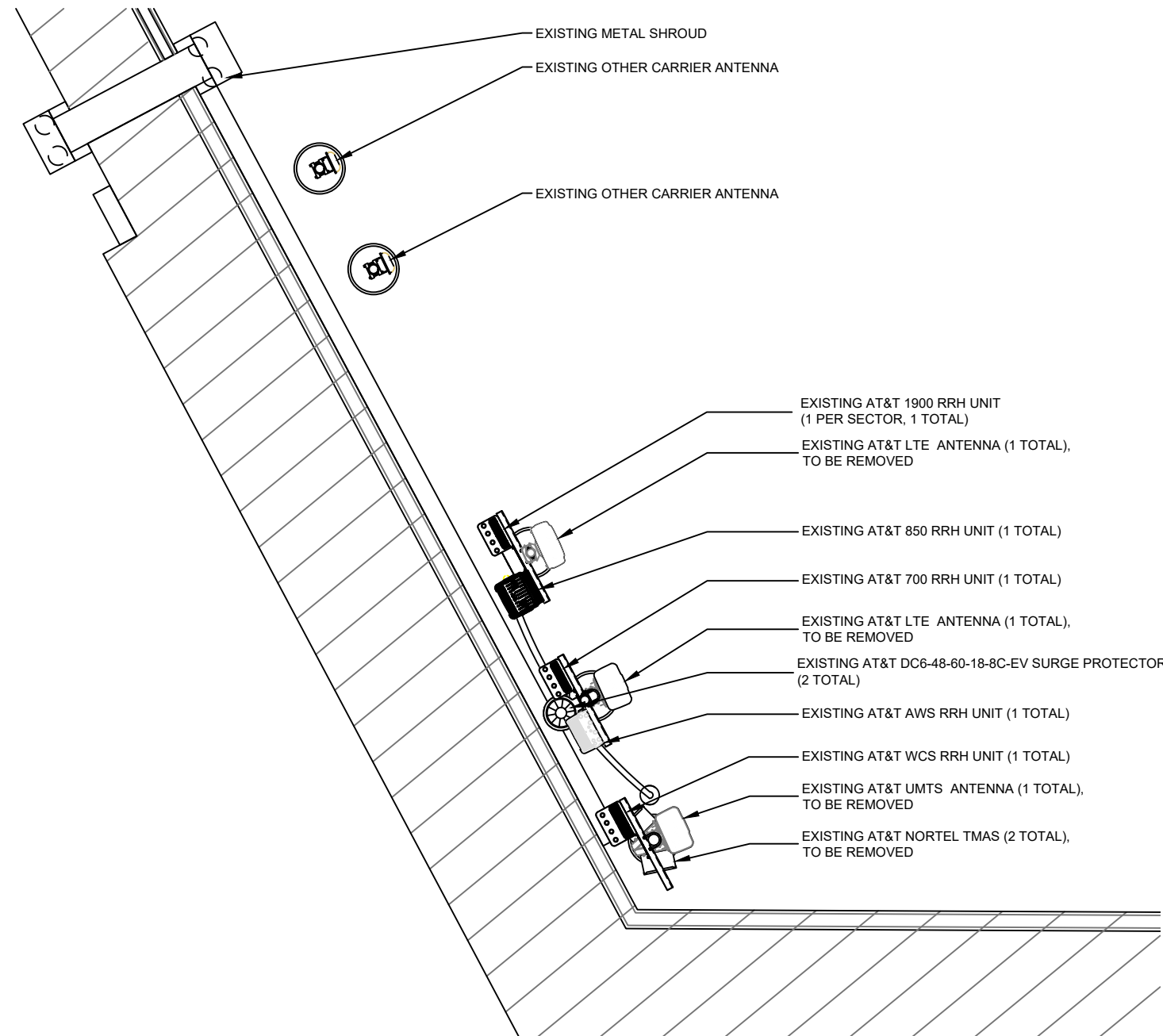
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SHEET TITLE  
**SOUTH ELEVATION**

SHEET NUMBER  
**A-4**

EXISTING ANTENNA CONFIGURATION AND SCHEDULE v1.0, 10/29/2021												
ALPHA	AZIMUTH	RAD CENTER	VENDOR	MODEL	TMA	RRH	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED	SURGE PROTECTOR	TRUNK
LTE 850, 5G 850, LTE 1900	60°	10'0"	KATHREIN	80010865	-	RRH 4T4R B5 160W AHCA B25 RRHx30-4R	0	FIBER	0'-0"	-	DC6-48-60-18-8C-EV	(2) DC TRUNK (1) FIBER TRUNK
-	-	-	-	-	-	-	-	-	-	-		
LTE 700, LTE AWS	60°	10'0"	COMMSCOPE	SBJAH4-1D65B-DL	-	RHH 4T4R B12/14 320W AHLBA B66A RRH4x45-4R	0	FIBER	0'-0"	-		
LTE 700, UMTS 850, UMTS 1900, LTE WCS	60°	10'0"	COMMSCOPE	SBJAH4-1D65B-DL	(2) NORTEL NTUM35AA	RRH4x25-WCS-4R	4	1-5/8"	225'-0"	-		



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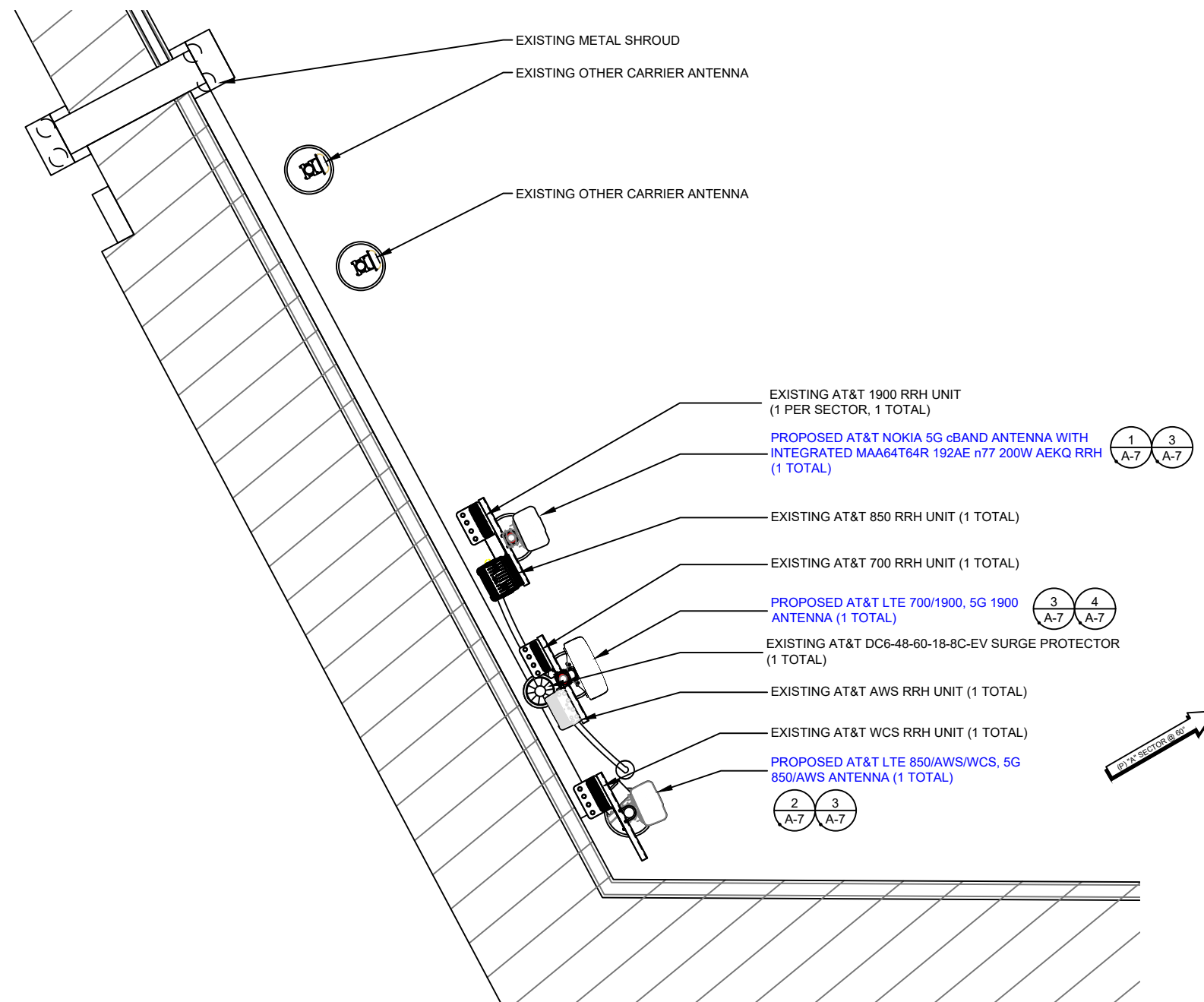
SHEET TITLE  
**EXISTING ANTENNA CONFIGURATION**

SHEET NUMBER  
**A-5**



PROPOSED ANTENNA CONFIGURATION AND SCHEDULE v1.0, 10/29/2021												
ALPHA	AZIMUTH	RAD CENTER	VENDOR	MODEL	TMA	RRH	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED	SURGE PROTECTOR	TRUNK
5G cBAND	60°	11.75'	NOKIA	AEQK	-	INTEGRATED MAA 64T64R 192AE n77 200W AEQK	0	FIBER	0'-0"	-	DC6-48-60-18-8C-EV	(2) DC TRUNK (1) FIBER TRUNK
LTE 700, LTE 1900, 5G 1900	60°	10.0'	CELLMAX	CMA-UBTMLBMLBHH-6516-16-21-21	-	RHH 4T4R B12/14 320W AHLBA B25 RRH4x30-4R	0	FIBER	0'-0"	-		
LTE 850, 5G 850, LTE AWS, 5G AWS, LTE WCS	60°	10.0'	COMMSCOPE	NNH4-65B-R6	-	RRH 4T4R B5 160W AHCA B66A RRH4x45-4R RRH4x25-WCS-4R	0	FIBER	0'-0"	-		

NOTE:  
 - MAINTAIN A DISTANCE OF MIN. 3' BETWEEN ANTENNA EDGES  
 - FOR ADDITIONAL STRUCTURAL INFORMATION, SEE STRUCTURAL REPORT BY MASTEC, DATED 2/18/2022



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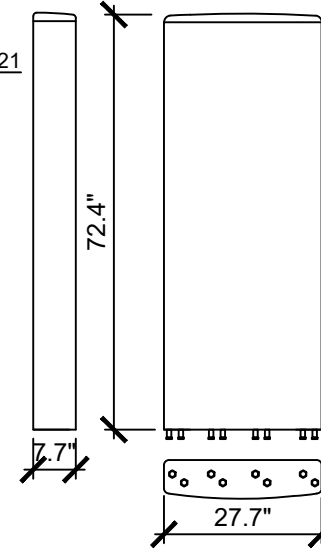
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SHEET TITLE  
**PROPOSED ANTENNA CONFIGURATION**

SHEET NUMBER  
**A-6**

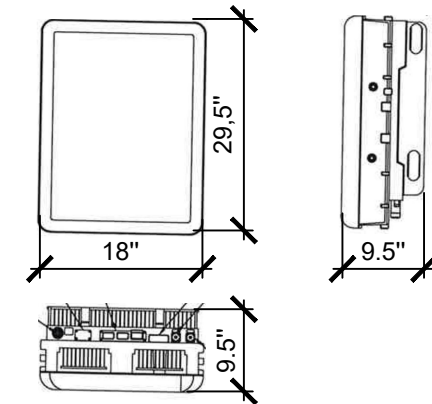


**CELLMAX**  
**CMA-UBTMLBMLBHH/6516/16/21/21**  
 RADOME COLOR: LIGHT GRAY  
 DIMENSIONS, HxWxD: 72.4" x 27.7" x 7.7"  
 WEIGHT: 100.3 lb  
 CONNECTOR: (8) 4.3-10 FEMALE



**NOKIA AIRSCALE AEQK MAA 64T64R 192AE n77 200W**

DIMENSIONS, HxWxD: 29.5" x 18" x 9.5"  
 WEIGHT: 99.2 lb  
 POWER CONSUMPTION: 727W  
 OPTICAL PORTS: (2) SFP28, 10/25GE  
 CONNECTOR: LMI/HDMI, SMA, CONTROL AISG, MDR26



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SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**A-7**

NOT USED SCALE N.T.S. 10

NOT USED SCALE N.T.S. 7

ANTENNA DETAIL SCALE N.T.S. 4

ANTENNA DETAIL SCALE N.T.S. 1

NOT USED SCALE N.T.S. 11

NOT USED SCALE N.T.S. 8

NOT USED SCALE N.T.S. 5

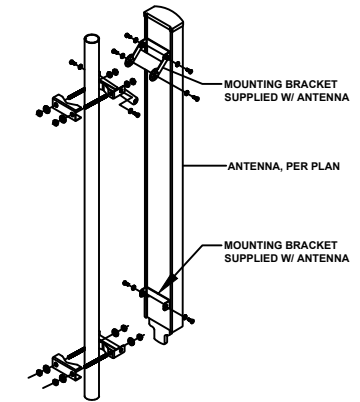
ANTENNA DETAIL SCALE N.T.S. 2

NOT USED SCALE N.T.S. 12

NOT USED SCALE N.T.S. 9

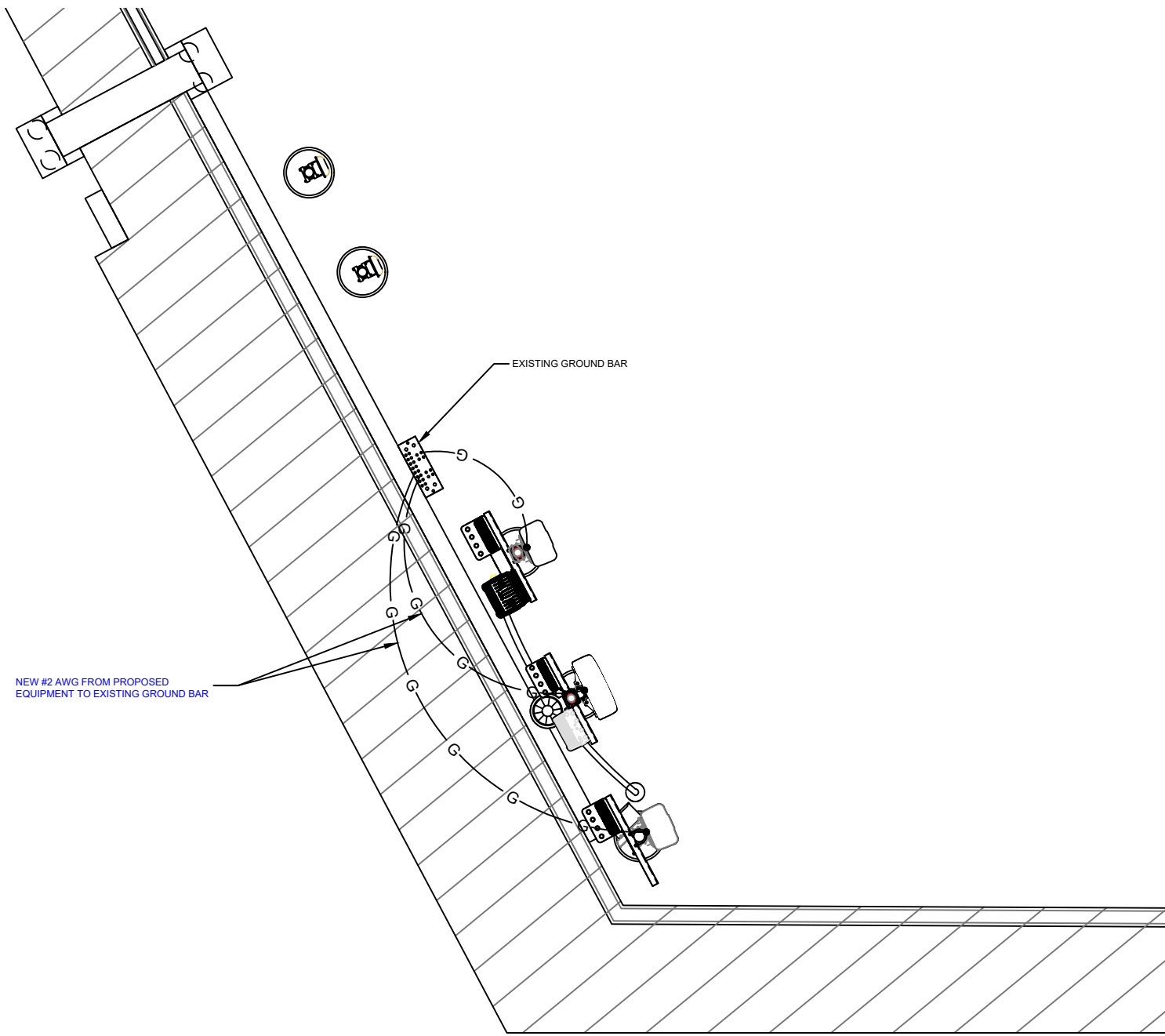
NOT USED SCALE N.T.S. 6

ANTENNA INSTALLATION DET. SCALE N.T.S. 3



**ELECTRICAL GROUNDING SPECIFICATIONS**

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED), UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND T-MOBILE WIRELESS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 8" RADIUS.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5" BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER, SECTOR BARS 2", COLLECTOR AND MGB BARS 4", OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH ISOLATORS. WHEN CONNECTING GROUND BARS (WITHIN 10 FEET OF GRADE) DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DAISY-CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THWN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CAD-WELD TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED, PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF "KOPR SHIELD" OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THWN INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL. FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER-CLAD STEEL 5/8"x10", SPACED NO LESS THAN 10' ON CENTER.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE T-MOBILE REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA-70 AND APPROVED BY A.H.J.



LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
⊞	EQUIPMENT GROUND BAR
⊞	ANTENNA GROUND BAR (AS REQUIRED)
⊞	#2 AWG GROUND LEAD (AS REQUIRED)

- NOTE:**
- CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.



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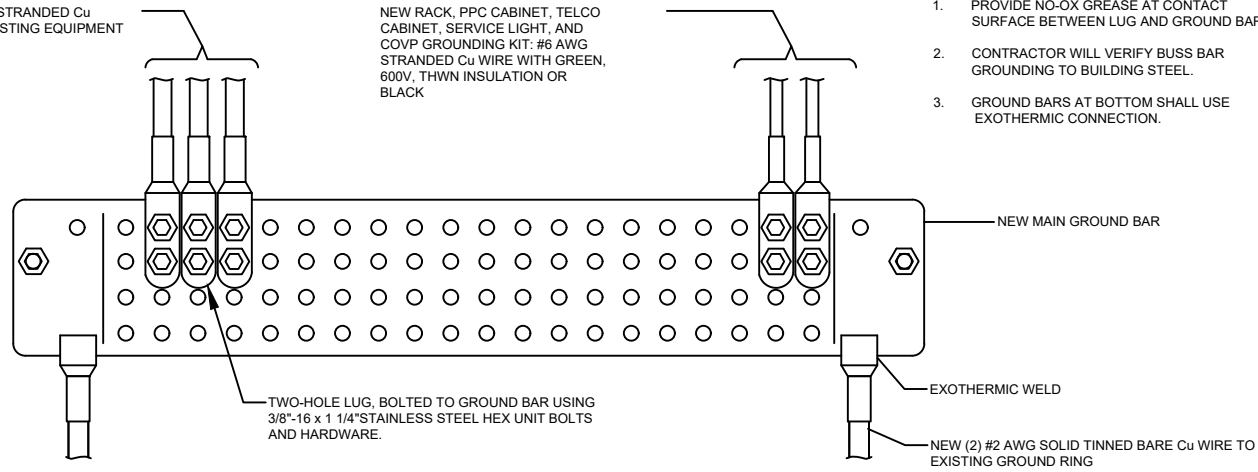
SITE  
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 MERCER ISLAND, WA 98040

SHEET TITLE  
**GROUNDING PLANS**

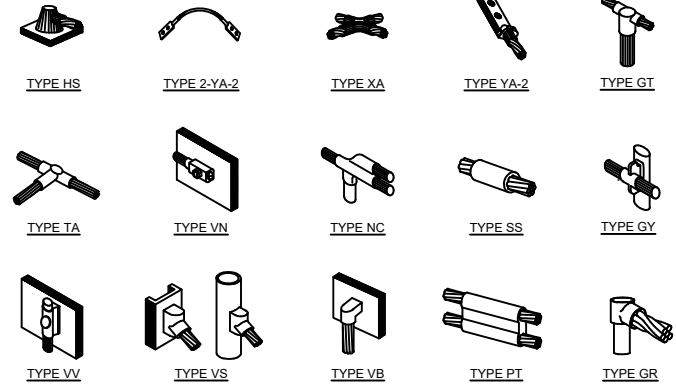
SHEET NUMBER  
**G-1**

NEW #6 AWG STRANDED Cu WIRES TO EXISTING EQUIPMENT

NEW RACK, PPC CABINET, TELCO CABINET, SERVICE LIGHT, AND COVP GROUNDING KIT: #6 AWG STRANDED Cu WIRE WITH GREEN, 600V, THWN INSULATION OR BLACK



- NOTES:**
1. PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
  2. CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO BUILDING STEEL.
  3. GROUND BARS AT BOTTOM SHALL USE EXOTHERMIC CONNECTION.



**NOTE:**  
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



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SHEET TITLE  
**GROUNDING DETAILS**

SHEET NUMBER  
**G-2**

NOT USED SCALE N.T.S. 10

MAIN GROUND BAR SCALE N.T.S. 4

EXOTHERMIC WELDING SCALE N.T.S. 1

NOT USED SCALE N.T.S. 11

NOT USED SCALE N.T.S. 8

CABLE GROUNDING SCALE N.T.S. 5

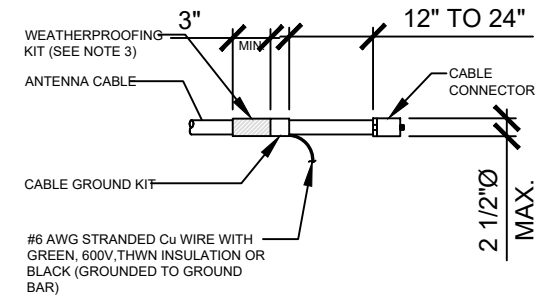
MECHANICAL LUG SCALE N.T.S. 2

NOT USED SCALE N.T.S. 12

NOT USED SCALE N.T.S. 9

NOT USED SCALE N.T.S. 6

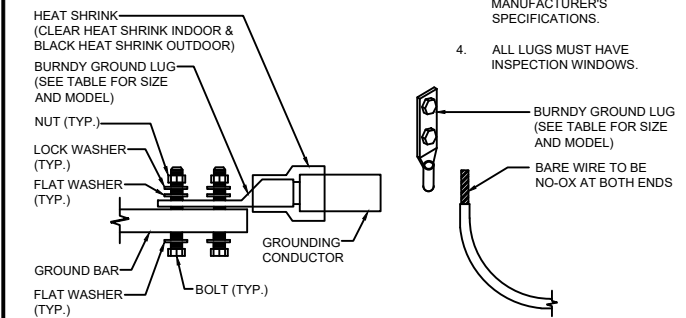
SECTOR GROUND BAR SCALE N.T.S. 3



**ANTENNA AND/OR GPS CABLE CONNECTION**

- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. GROUNDING KIT TYPE SHALL BE APPROVED BY TMO PRIOR TO INSTALLATION
  3. WEATHERPROOFING SHALL INCORPORATE PPC WEATHERPROOFING TAPE KIT, COLD SHRINK SHALL NOT BE USED.

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



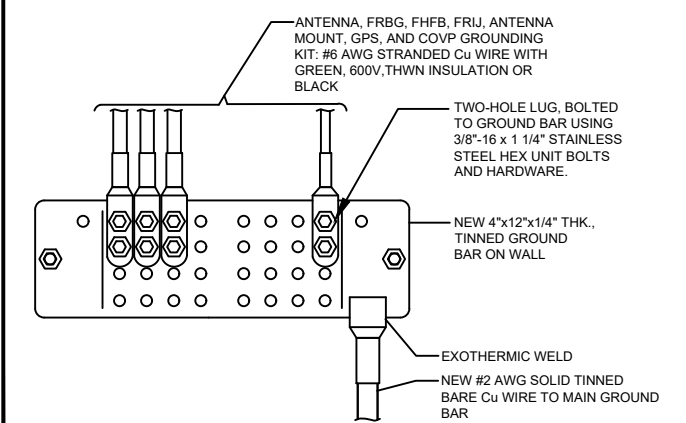
- NOTES:**
1. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
  2. COPPER SHIELD, ANTI-OX, CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
  3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
  4. ALL LUGS MUST HAVE INSPECTION WINDOWS.

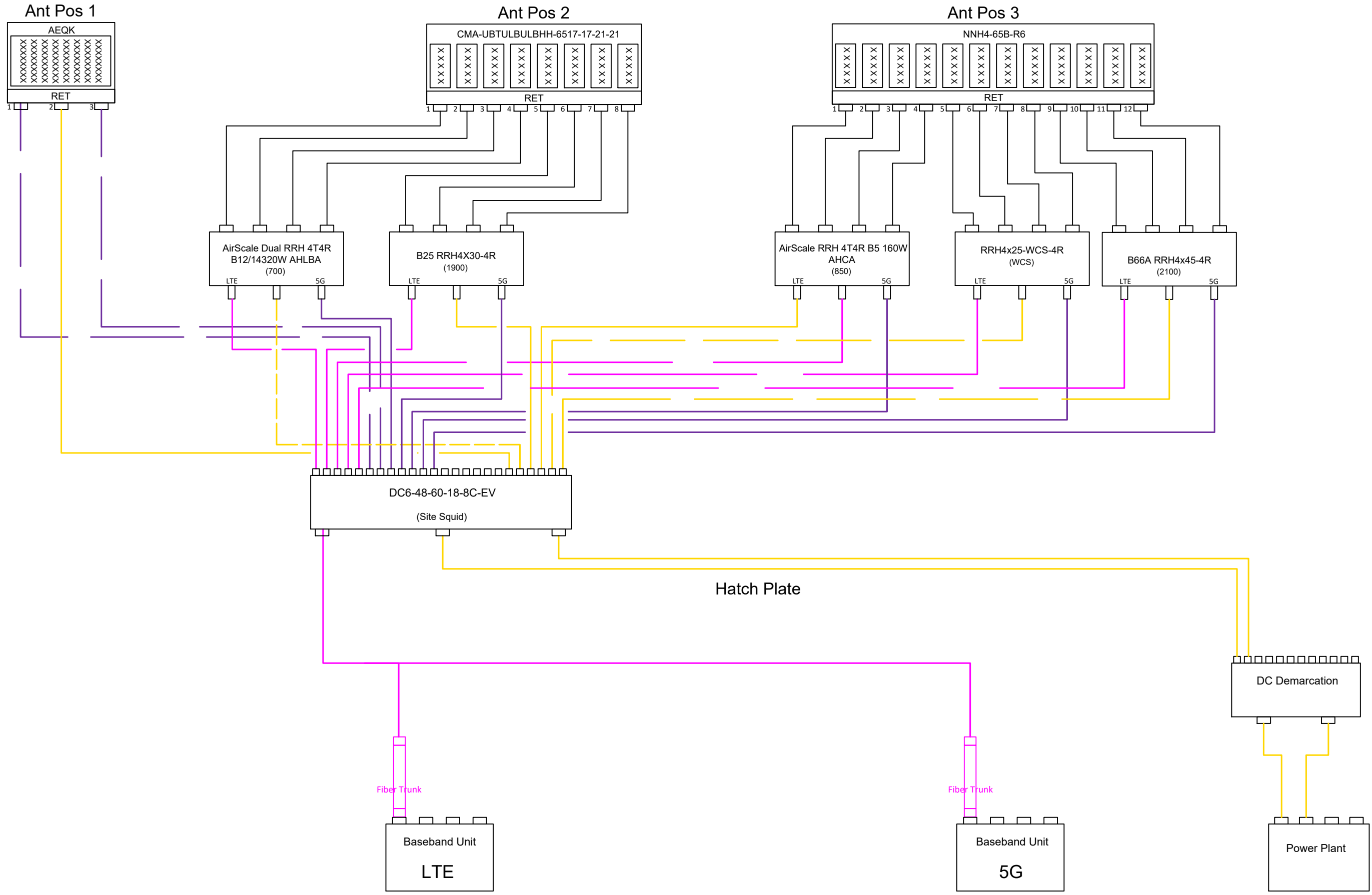
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SECTOR GROUND BAR SCALE N.T.S. 3





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SHEET TITLE  
**RF DETAILS**

SHEET NUMBER  
**RF-1**