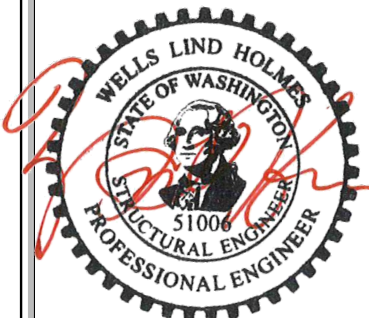


SPO CROSBY SMALL CELL NODE 22

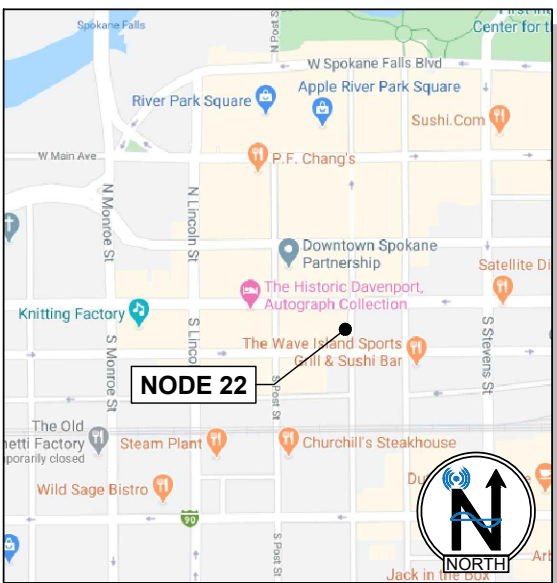
123 WALL STREET
SPOKANE, WA 99201

AVISTA POLE # N/A

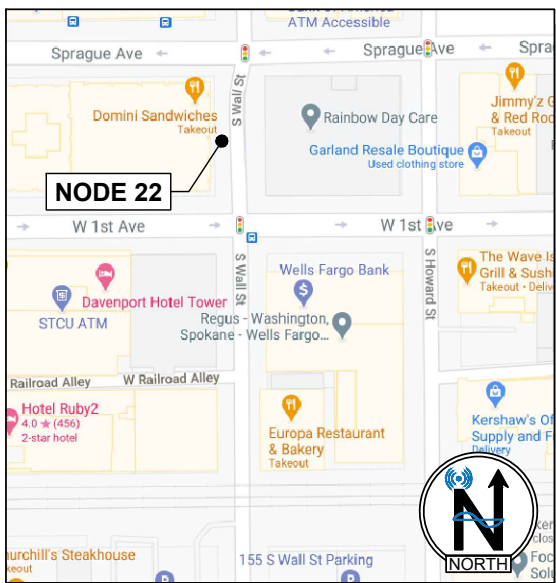


04/27/2022

VICINITY MAP



LOCATION MAP



PROJECT CONTACT LIST

PROPERTY OWNER:

CITY OF SPOKANE

UTILITY POLE OWNER:

AVISTA
1411 E MISSION AVE
SPOKANE, WA 99252
PHONE: (800) 936-6629

IMPLEMENTATION CONTACT:

MICHAEL LEWIS
VERIZON WIRELESS (VAW) LLC
(d/b/a VERIZON WIRELESS)
3245 158TH AVE SE
BELLEVUE, WA 98008
michael.lewis@verizonwireless.com

A&E CONSULTANT:

RICK MATTESON
ACOM CONSULTING, INC
5200 SW MEADOWS RD
SUITE 150
LAKE OSWEGO, OR 97035
PHONE: (425) 209-6723
rick.matteson@acomconsultinginc.com

REAL ESTATE:

SARAH BLANCHARD
ACOM CONSULTING, INC
5200 SW MEADOWS RD, SUITE 150
LAKE OSWEGO, OR 97035
PHONE: (503) 310-5538
sarah.blanchard@acomconsultinginc.com

ZONING / PERMITTING:

SARAH BLANCHARD
ACOM CONSULTING, INC
5200 SW MEADOWS RD, SUITE 150
LAKE OSWEGO, OR 97035
PHONE: (503) 310-5538
sarah.blanchard@acomconsultinginc.com

FIBER PROVIDER CONTACT:

ONE FIBER
JEREMY ZIMMERMAN

STRUCTURAL ENGINEER:

WELLS L. HOLMES, S.E.
VECTOR STRUCTURAL ENGINEERING
651 W GALENA PARK BLVD, SUITE 101
DRAPER, UT 84020
PHONE: 801.990.1775

ELECTRICAL ENGINEER:

DEAN P. LEVORSEN, P.E.
VECTOR STRUCTURAL ENGINEERING
651 W GALENA PARK BLVD, SUITE 101
DRAPER, UT 84020
PHONE: 801.990.1775

DRAWING INDEX

T-1	COVER SHEET
T-2	GENERAL NOTES AND SYMBOLS
A-1	AERIAL IMAGE / SITE LOCATION
A-2	EXISTING & PROPOSED PLANS
A-3	EXISTING AND PROPOSED ELEVATIONS
A-4	CONSTRUCTION DETAILS
A-5	CONSTRUCTION DETAILS
A-6	CONSTRUCTION DETAILS
E-1	GROUNDING DETAILS
E-2	TYPICAL ONE-LINE DIAGRAM AND PANEL SCHEDULE
S-1	27'-6" FLUTED TAPERED ANTENNA / LIGHT POLE (FOR REFERENCE ONLY)
F-1	27'-6" FLUTED TAPERED ANTENNA / LIGHT POLE (FOR REFERENCE ONLY)

DRIVING DIRECTIONS

FROM I-90 EAST BELLEVUE, WA:

GET ON I-90 EAST FROM BELLEVUE WAY SE AND HEAD TOWARD SPOKANE. FOLLOW I-90E TO SPOKANE. USE THE RIGHT 2 LANES TO TAKE EXIT 280 TOWARD LINCOLN ST. CONTINUE STRAIGHT ONTO W 4TH AVE. SLIGHT LEFT TOWARD S LINCOLN ST. TURN LEFT ONTO S LINCOLN ST. TURN RIGHT ONTO S SPRAGUE AVE. TURN RIGHT ON S WALL ST. DESTINATION WILL BE ON THE LEFT.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CONDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

WASHINGTON STATE AND LOCAL BUILDING CODES WITH THE FOLLOWING REFERENCE CODE:

- 2018 IBC, STANDARDS AND AMENDMENTS - WAC 51-50
- 2018 IMC, STANDARDS AND AMENDMENTS - WAC 51-52
- 2018 IFC, STANDARDS AND AMENDMENTS - WAC 51-54
- 2018 UPC, STANDARDS AND AMENDMENTS - WAC 51-56
- 2020 NATIONAL ELECTRICAL CODE - WAC 296-46B
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 WASHINGTON STATE ENERGY CODE - WAC 51-11C

PROJECT INFORMATION

JURISDICTION:	CITY OF SPOKANE
ZONING CLASSIFICATION:	R.O.W.
ADJACENT ZONE:	DTC
CONSTRUCTION TYPE:	UTILITY
PROPOSED BUILDING USE:	TELECOM
TRS:	SEC 18, TWN 25N, RNG 43E
EXISTING STRUCTURE HEIGHT:	N/A (NO POLE AT LOCATION)
EXISTING HIGHEST APPURTENANCE:	N/A (NO POLE AT LOCATION)
PROPOSED STRUCTURE HEIGHT:	27'-6" (TOP OF PROP. POLE)
PROPOSED HIGHEST APPURTENANCE:	36'-9" (TOP OF PROP. ANT.)
LATITUDE:	47.6569360° 47° 39' 24.9696" N
LONGITUDE:	-117.422185° 117° 25' 19.8654" W
GROUND ELEVATION:	1889.3 AMSL

SCOPE OF WORK

VERIZON WIRELESS PROPOSES TO INSTALL WIRELESS COMMUNICATIONS EQUIPMENT ON A NEW UTILITY POLE (NODE) LOCATED IN THE RIGHT-OF-WAY. THE PROPOSED EQUIPMENT WILL INCLUDE THE INSTALLATION OF CELLULAR ANTENNAS, ANCILLARY SUPPORT EQUIPMENT, ASSOCIATED CABLING AND CONDUITS. NO EXISTING POLE AT THIS COORDINATE.

POLE REPLACEMENT RESPONSIBILITY

PROPOSED INSTALLATION OF WIRELESS EQUIPMENT ON A NEW UTILITY POLE. POLE TO BE REPLACED BY: AVISTA

AVISTA SPAN LIMIT CALCULATIONS

CURRENTLY THERE IS NO LIGHT POLE AT THIS LOCATION. A PROPOSED 27'-6" FLUTED METAL POLE W/ TOP-MOUNT ANTENNA SHROUD TO BE INSTALLED



DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF ACOM CONSULTING.

NO.	DATE	DRAWN	REVISION
A	03/29/21	KH	90% PCD REVIEW
B	06/16/21	KM	CLIENT COMMENTS
0	07/06/21	RA	100% FINAL CD
1	08/26/21	RA	CITY COMMENTS
2	04/26/22	RA	100% FINAL CD



AVISTA POLE
N/A

**SPO CROSBY
SMALL CELL NODE 22**
123 WALL STREET
SPOKANE, WA 99201

COVER SHEET

T-1

GENERAL NOTES

1.

WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL NECESSARY LICENSES, CERTIFICATES, ETC., REQUIRED BY AUTHORITY HAVING JURISDICTION SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.

2.

ACOM HAS NOT CONDUCTED, NOR DOES IT INTEND TO CONDUCT ANY INVESTIGATION AS TO THE PRESENCE OF HAZARDOUS MATERIAL, INCLUDING, BUT NOT LIMITED TO, ASBESTOS WITHIN THE CONFINES OF THIS PROJECT. ACOM DOES NOT ACCEPT RESPONSIBILITY FOR THE INDEMNIFICATION, THE REMOVAL, OR ANY EFFECTS FROM THE PRESENCE OF THESE MATERIALS. IF EVIDENCE OF HAZARDOUS MATERIALS IS FOUND, WORK IS TO BE SUSPENDED AND THE OWNER NOTIFIED. THE CONTRACTOR IS NOT TO PROCEED WITH FURTHER WORK UNTIL INSTRUCTED BY THE OWNER IN WRITING.

3.

ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE PROPOSED, UNLESS OTHERWISE NOTED. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE CONTRACTOR SHALL REPAIR OR REPLACE AT HIS EXPENSE ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIALS OR WORKMANSHIP WITHIN SAID PERIOD OF TIME OR FOR ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE ENTIRE PROJECT, WHICHEVER IS GREATER.

4.

THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND UTILITIES AT THE JOB SITE BEFORE WORK IS STARTED. NO CLAIMS FOR EXTRA COMPENSATION FOR WORK WHICH COULD HAVE BEEN FORESEEN BY AN INSPECTION, WHETHER SHOWN ON THE CONTRACT DOCUMENTS OR NOT, WILL BE ACCEPTED OR PAID.

5.

THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT. ALL MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED WITH.

6.

THE CONTRACTOR SHALL VERIFY AND COORDINATE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, OR ARCHITECTURAL WORK.

7.

THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL COMPENSATION.

8.

DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE EITHER TO THE FACE OF FINISHED ELEMENTS OR TO THE CENTER LINE OF ELEMENTS, UNLESS NOTED OTHERWISE. CRITICAL DIMENSIONS SHALL BE VERIFIED AND NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.

9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO A BETTER THAN EXISTING CONDITION.

10.

THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES.

11.

THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.

12.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO BETTER THAN PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY AVISTA OF ANY DAMAGE TO THE SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE CONSULTANT SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.

13.

WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS OR REFERRED TO IN THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.

14.

WHERE PROPOSED PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.

15.

THE CONTRACTOR SHALL MODIFY THE EXISTING STRUCTURE AS REQUIRED. WHERE THE EXISTING STRUCTURE MUST BE MODIFIED, GENERAL CONTRACTOR SHALL REPAIR TO ORIGINAL CONDITION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.

16.

VERIFY ALL EXISTING DIMENSIONS PRIOR TO PERFORMING WORK.

17.

VERIFY LOCATION OF ALL BURIED UTILITIES PRIOR TO ANY EXCAVATION.

18.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR COMMERCIAL POWER IMMEDIATELY UPON AWARD OF CONTRACT. THE GENERAL CONTRACTOR IS REQUIRED TO KEEP ALL DOCUMENTATION RECEIVED FROM THE POWER COMPANY, ACKNOWLEDGING APPLICATION FOR POWER, WRITTEN AND VERBAL DISCUSSIONS WITH THE POWER COMPANY, ETC.

19.

THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION OF THE EXPECTED DATE OF COMPLETION OF THE POWER CONNECTION FROM THE POWER COMPANY.

20.

IF THE POWER COMPANY IS UNABLE TO PROVIDE THE POWER CONNECTION BY OWNER'S REQUIRED DATE, THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY GENERATOR UNTIL THE POWER COMPANY CONNECTION IS COMPLETED. COSTS ASSOCIATED WITH THE TEMPORARY GENERATOR TO BE APPROVED BY THE OWNER.

21.

IF THE GENERAL CONTRACTOR FAILS TO TAKE NECESSARY MEASURES AS DESCRIBED IN NOTES 19, 20 AND 21 ABOVE, THE GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR AT NO COST TO THE OWNER.

22.

PLANS PART OF THIS SET ARE COMPLEMENTARY. INFORMATION IS NOT LIMITED TO ONE PLAN. DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER ON OTHER PROJECTS OR EXTENSION TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. THESE PLANS WERE PREPARED TO BE SUBMITTED TO GOVERNMENTAL BUILDING AUTHORITIES FOR REVIEW FOR COMPLIANCE WITH APPLICABLE CODES AND IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO BUILD ACCORDING TO APPLICABLE BUILDING CODES.

23.

IF CONTRACTOR OR SUB-CONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ARCHITECT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.

24.

IN EVERY EVENT, THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE MEANS OF CONSTRUCTION BUT THIS SHALL NOT RELIEVE THE CONTRACTOR, SUB-CONTRACTOR, AND/OR SUPPLIER/MANUFACTURER FROM PROVIDING A COMPLETE AND CORRECT JOB WHEN ADDITIONAL ITEMS ARE REQUIRED TO THE MINIMUM SPECIFICATION. IF ANY ITEMS NEED TO EXCEED THESE MINIMUM SPECIFICATIONS TO PROVIDE A COMPLETE, ADEQUATE AND SAFE WORKING CONDITION, THEN IT SHALL BE THE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE DRAWINGS. FOR EXAMPLE, IF AN ITEM AND/OR PIECE OF EQUIPMENT REQUIRES A LARGER WIRE SIZE (I.E. ELECTRICAL WIRE), STRONGER OR LARGER PIPING, INCREASED QUANTITY (I.E. STRUCTURAL ELEMENTS), REDUCED SPACING, AND/OR INCREASED LENGTH (I.E. BOLT LENGTHS, BAR LENGTHS) THEN IT SHALL BE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE BID/PROPOSAL. THESE DOCUMENTS ARE MEANT AS A GUIDE AND ALL ITEMS REASONABLY INFERRED SHALL BE DEEMED TO BE INCLUDED.

25.

THESE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.

LEGEND

ABBREVIATIONS:

(E) EXISTING

(P) PROPOSED

BUILDING/WALL/DETAIL SECTION:

DETAIL NUMBER

X

X-X

SHEET NUMBER WHERE DETAILED

REFERENCE:

DETAIL NUMBER

X

X-X

REFERENCED DRAWING

LARGE SCALE DETAIL:

DETAIL NUMBER

X

X-X

REFERENCED DRAWING

ELEVATION REFERENCE:

DETAIL NUMBER

X

X-X

REFERENCED DRAWING

LINE/ANTENNA NOTES

1.

ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.

2.

NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY MAGNETIC NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.

3.

PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.

4.

THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.

5.

MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS.

6.

FOR GROUNDING TO GROUND BARS USE A TWO-BOLT HOLE NEMA DRILLED CONNECTOR SUCH AS T&B 32007 OR APPROVED EQUAL.

7.

FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS AND CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND.

8.

REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING. USE ERICO T-319 GALVANIZING BAR/COLD GALVANIZING PAINT.

PROJECT INFORMATION

1.

THIS IS AN UNMANNED FACILITY AND RESTRICTED ACCESS EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.

2.

VERIZON WIRELESS CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY BY VERIZON WIRELESS EMPLOYEE SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY. THIS FACILITY IS UNOCCUPIED AND NOT DESIGNED FOR HUMAN OCCUPANCY THUS IT IS NOT OPEN TO THE PUBLIC.

3.

THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY.

4.

NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.

5.

NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.

6.

NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

7.

VERIZON WIRELESS MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

IMPORTANT NOTICE

THE EXISTING CONDITIONS REPRESENTED HEREIN ARE BASED ON VISUAL OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. ACOM CONSULTING CANNOT GUARANTEE THE CORRECTNESS NOR COMPLETENESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREOF. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AS REQUIRED FOR PROPER EXECUTION OF PROJECT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CONSULTANT PRIOR TO CONSTRUCTION.

WELLS LIND HOLMES

STATE OF WASHINGTON

51006

STRUCTURAL ENGINEER

PROFESSIONAL ENGINEER

04/27/2022

NO.	DATE	DRAWN	REVISION
A	03/29/21	KH	90% PCD REVIEW
B	06/16/21	KM	CLIENT COMMENTS
0	07/06/21	RA	100% FINAL CD
1	08/26/21	RA	CITY COMMENTS
2	04/26/22	RA	100% FINAL CD

CLIENT:

verizon

A&E CONSULTANT, SITE ACQUISITION AND PERMITTING:

Acom

CONSULTING, INC

ENGINEER OF RECORD:

VECTOR

ENGINEERS

AVISTA POLE

N/A

SPO CROSBY

SMALL CELL NODE 22

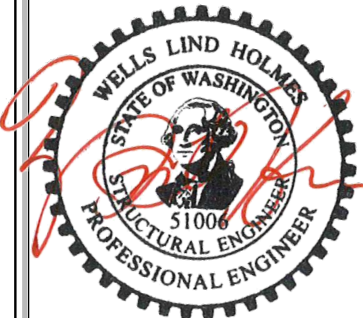
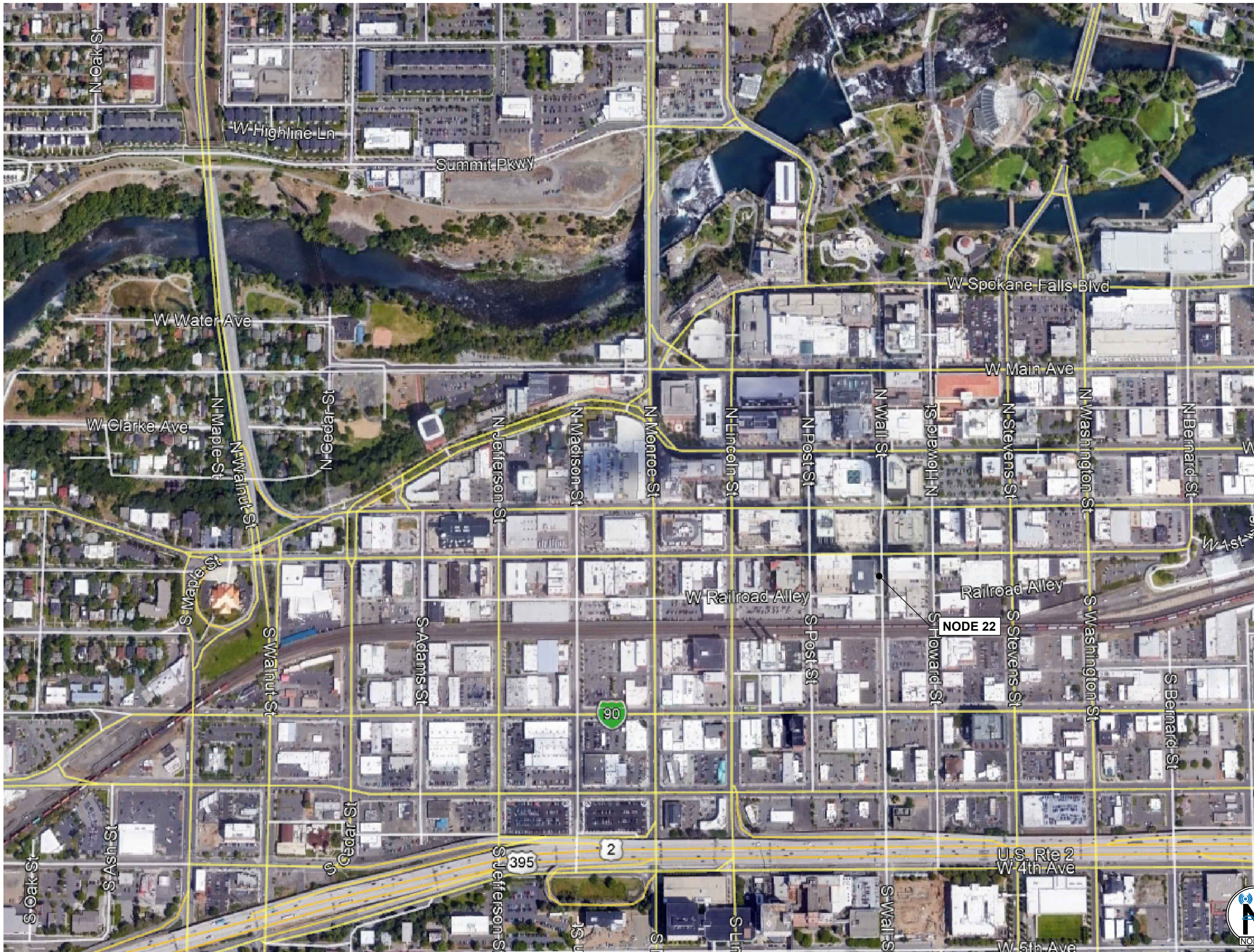
123 WALL STREET

SPOKANE, WA 99201

GENERAL NOTES

AND SYMBOLS

T-2



04/27/2022

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CLIENT:



A&E CONSULTANT, SITE ACQUISITION AND PERMITTING:



ENGINEER OF RECORD:

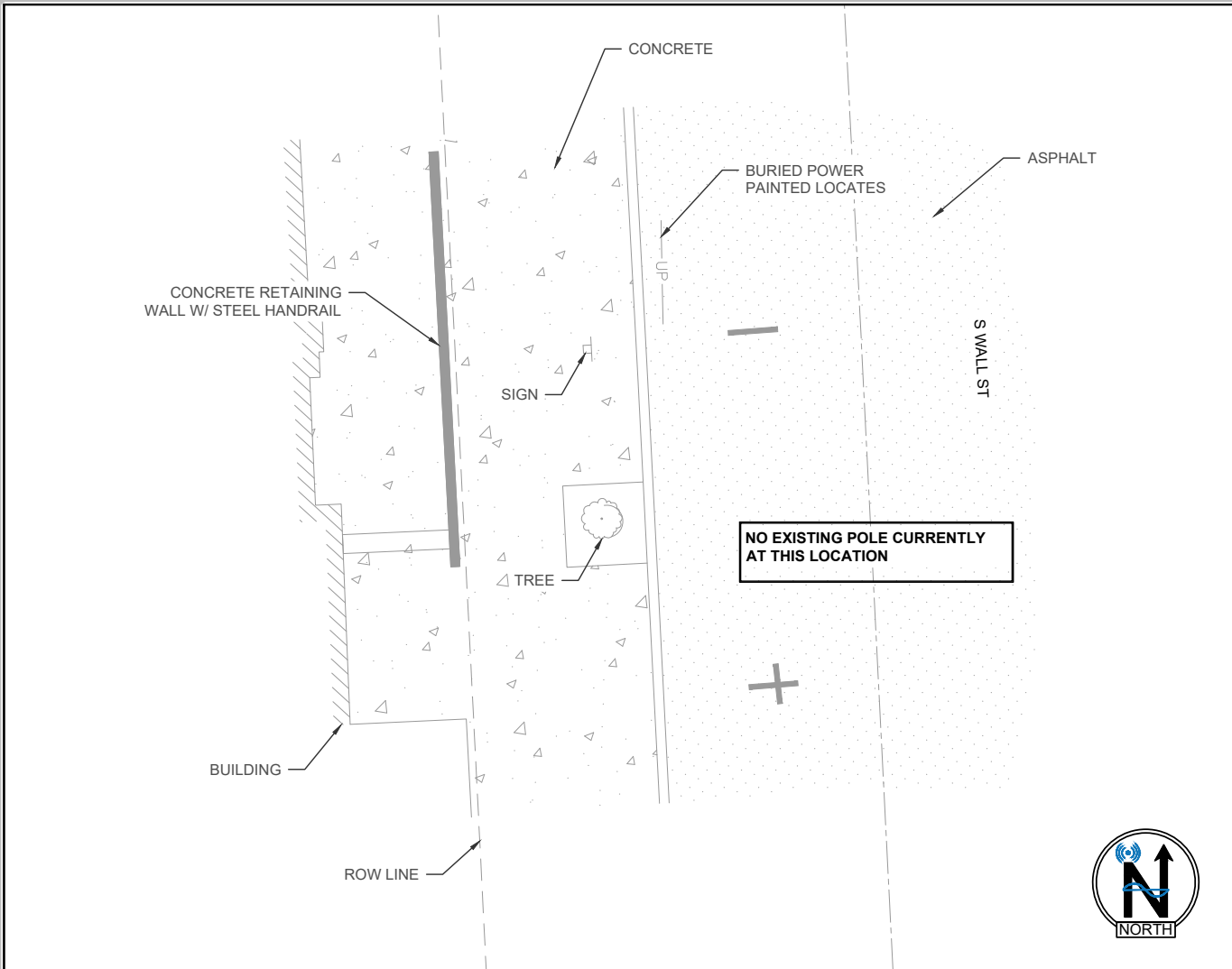


AVISTA POLE
N/A

**SPO CROSBY
SMALL CELL NODE 22**
123 WALL STREET
SPOKANE, WA 99201

AERIAL IMAGE /
SITE LOCATION

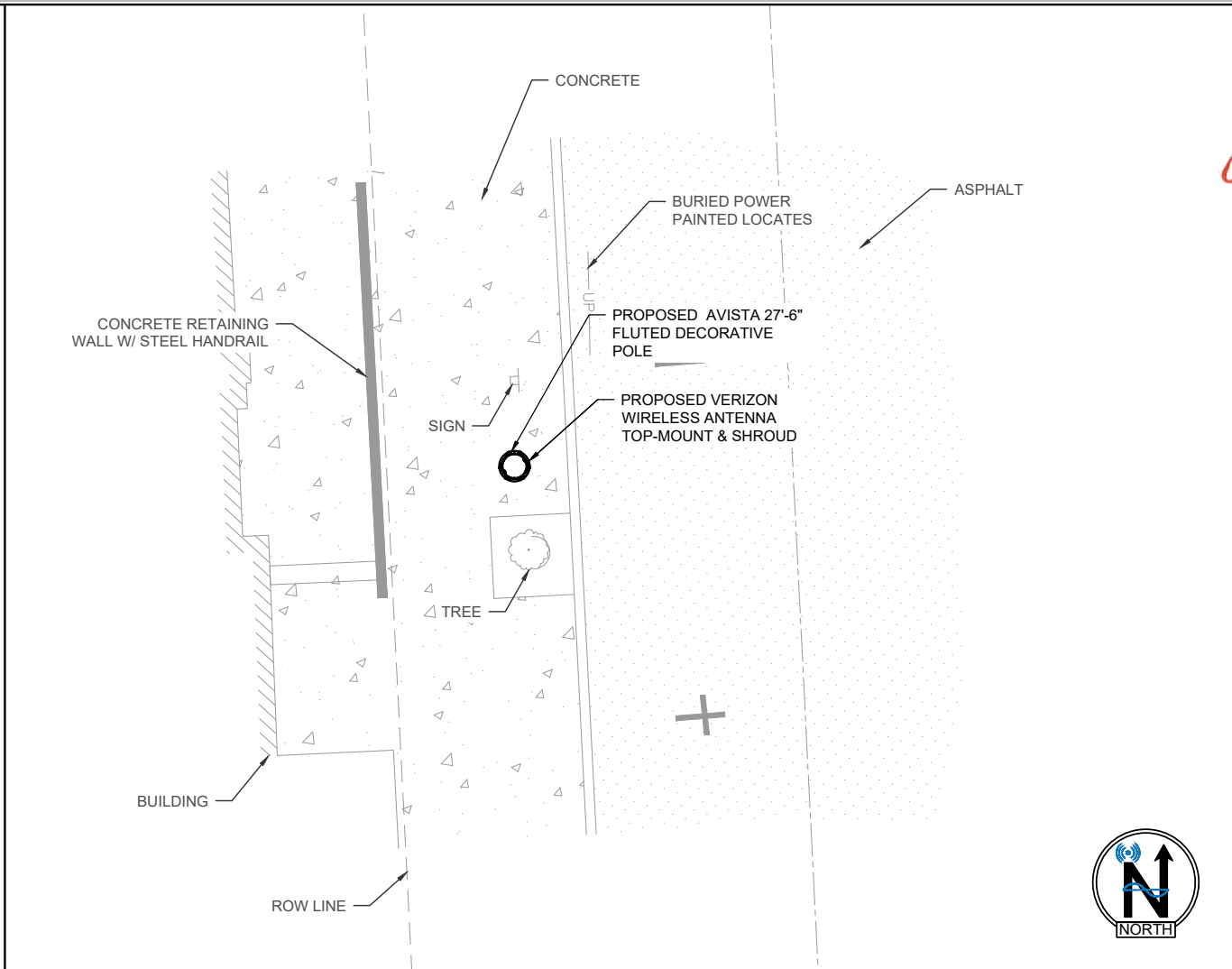
A-1



22"x34" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

4' 2' 0' 4'

EXISTING ENLARGED SITE PLAN 1



22"x34" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"

4' 2' 0' 4'

PROPOSED ENLARGED SITE PLAN 2

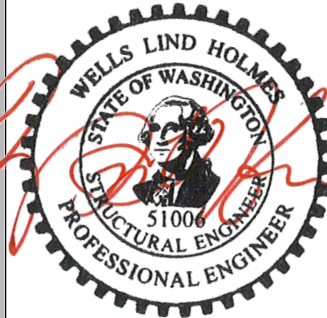
PROPOSED EQUIPMENT SCHEDULE (CONCEALED WITHIN TOP MOUNT & SHROUD)										
PROPOSED ANTENNAS										
AZIMUTH	TIP HEIGHT	QTY	MANUFACTURER	MODEL #	ASSOCIATED DETAIL	LENGTH	WIDTH	DEPTH	MECH TILT	ELEC TILT
0°	30'-9"	1	ERICSSON	STREETMACRO 6701	2/A-5	20.5"	7.9"	4.9"	0°	0°
120°	30'-9"	1	ERICSSON	STREETMACRO 6701	2/A-5	20.5"	7.9"	4.9"	0°	0°
240°	30'-9"	1	ERICSSON	STREETMACRO 6701	2/A-5	20.5"	7.9"	4.9"	0°	0°

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

NOT USED 3

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

PROPOSED EQUIPMENT SCHEDULE 4



04/27/2022

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1	08/26/21	RA	CITY COMMENTS
2	04/26/22	RA	100% FINAL CD

CLIENT:



A&E CONSULTANT, SITE ACQUISITION AND PERMITTING:



ENGINEER OF RECORD:



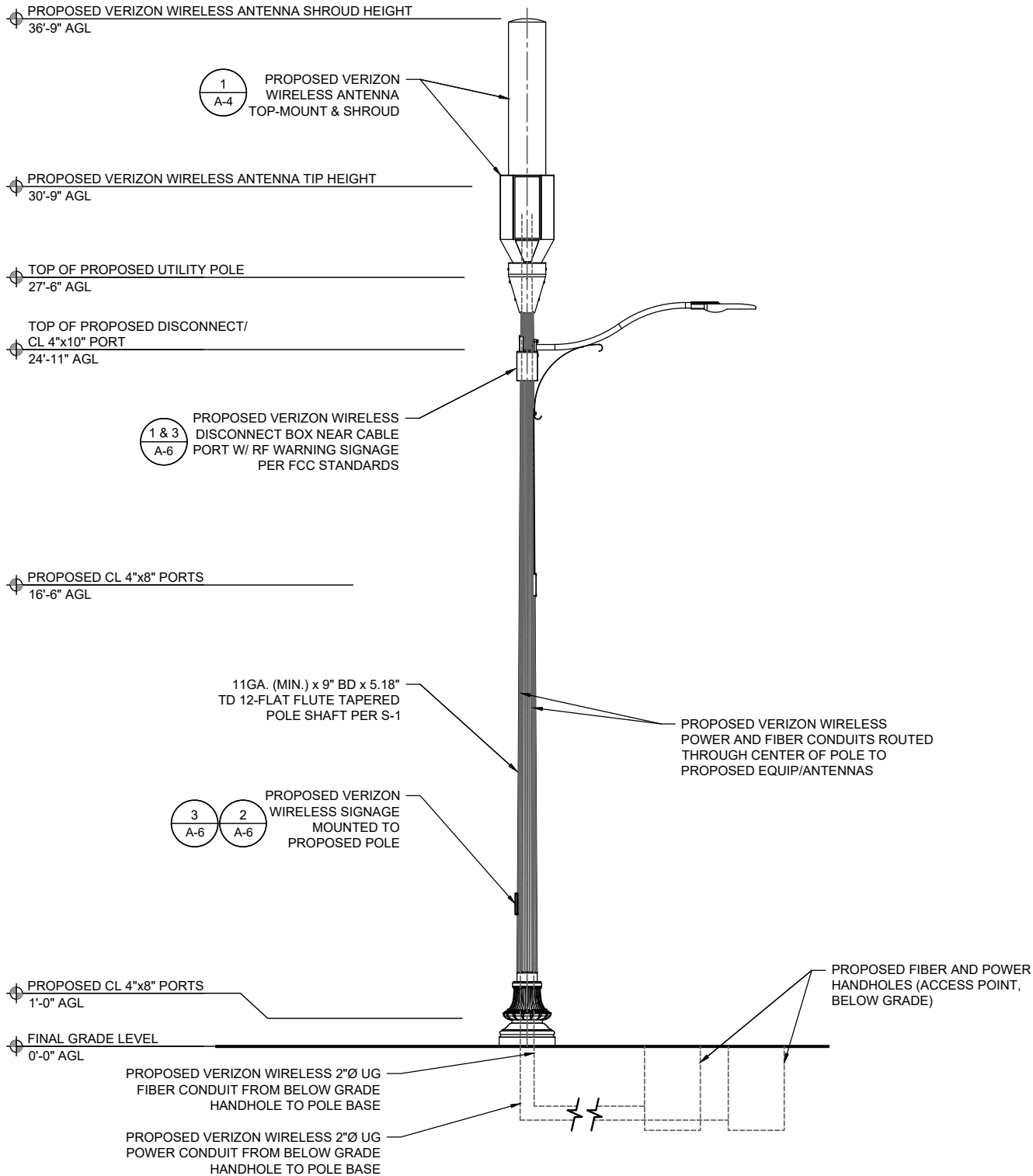
AVISTA POLE
N/A

SPO CROSBY
SMALL CELL NODE 22
123 WALL STREET
SPOKANE, WA 99201

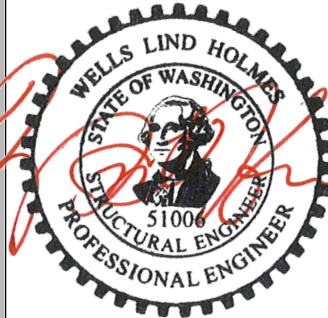
EXISTING &
PROPOSED PLANS

A-2.0

CURRENTLY THERE IS NO LIGHT POLE AT THIS LOCATION. A NEW 27'-6" FLUTED METAL POLE W/ TOP-MOUNT ANTENNA SHROUD TO BE INSTALLED



- NOTE:
1. POWER LINE TO TERMINATE IN INTERSECT BREAKER DIST BOX INSIDE SHROUD
 2. FIBER CABLE TO TERMINATE IN ERICSSON FRONTHAUL FIBER BOX INSIDE SHROUD
 3. ALL EXTERIOR EQUIPMENT OUTSIDE THE SHROUD ASSEMBLY SHALL BE BROWN COLOR



04/27/2022

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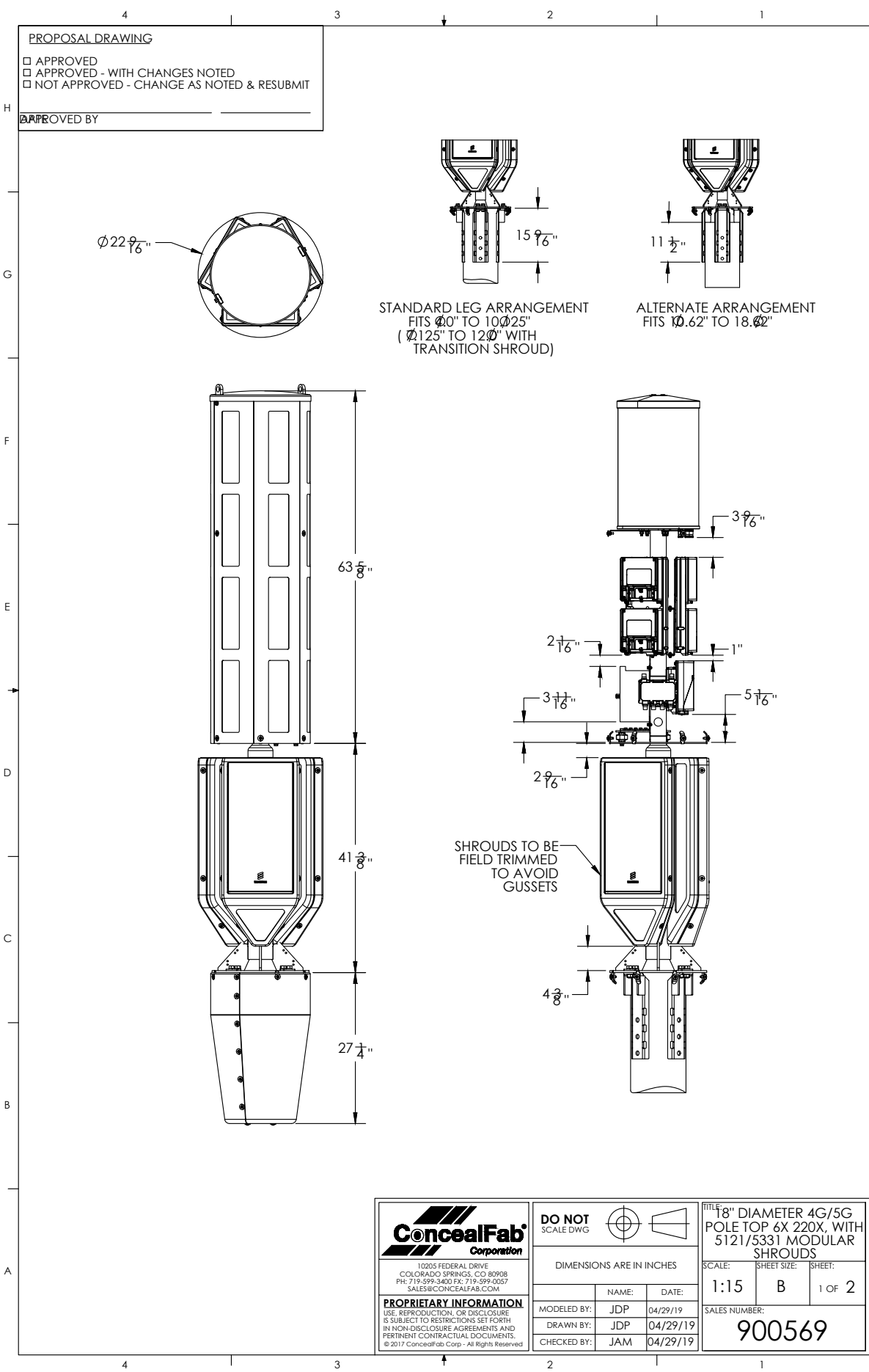


AVISTA POLE
N/A

**SPO CROSBY
SMALL CELL NODE 22**
123 WALL STREET
SPOKANE, WA 99201

EXISTING & PROPOSED
ELEVATIONS

A-3.0



22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

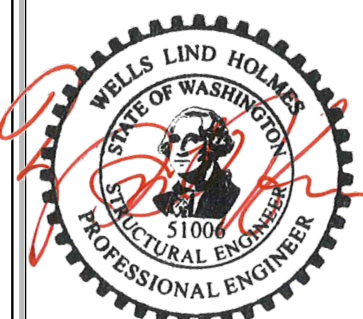
TOP MOUNT & EQUIPMENT ARRANGEMENT

1

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

NOT USED

2



04/27/2022

NO.	DATE	DRAWN	REVISION
A	03/29/21	KH	90% PCD REVIEW
B	06/16/21	KM	CLIENT COMMENTS
0	07/06/21	RA	100% FINAL CD
1	08/26/21	RA	CITY COMMENTS
2	04/26/22	RA	100% FINAL CD

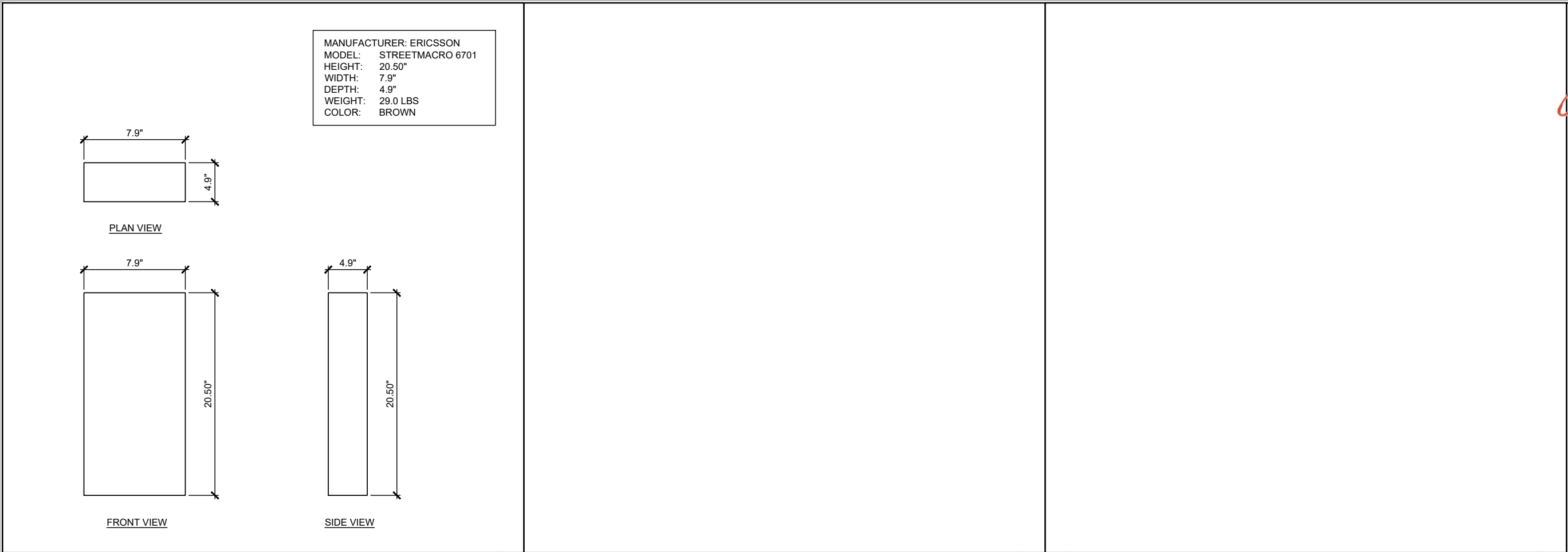


AVISTA POLE
N/A

SPO CROSBY
SMALL CELL NODE 22
123 WALL STREET
SPOKANE, WA 99201

CONSTRUCTION
DETAILS

A-4



PLAN VIEW

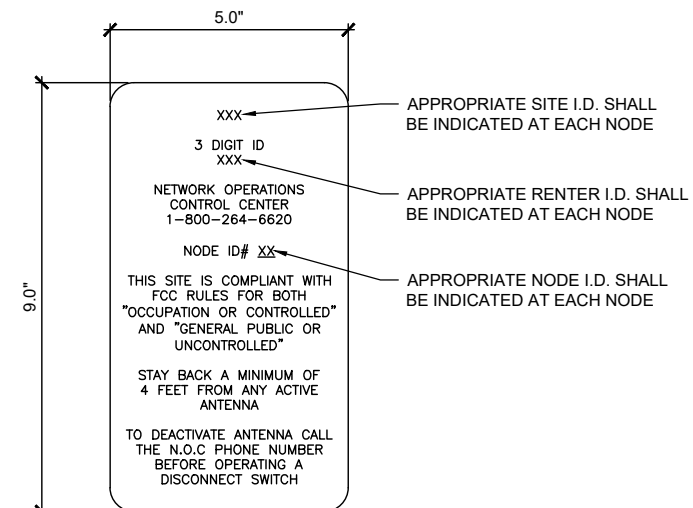
MANUFACTURER: INTERSECT
MODEL: J1210 HPL DISCONNECT BOX
HEIGHT: 13.56"
WIDTH: 11.43"
DEPTH: 5.22"
WEIGHT: 6.6 LBS
COLOR: BROWN

FRONT VIEW

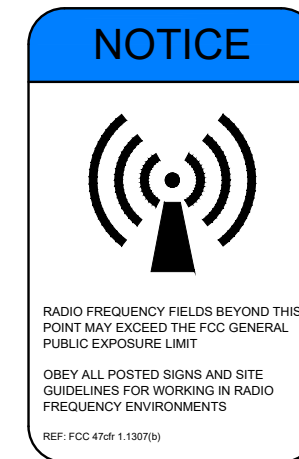
SIDE VIEW

NOTE:

INSTALL PER MANUFACTURER
SPECIFICATIONS AND FCC AND
VERIZON WIRELESS GUIDELINES

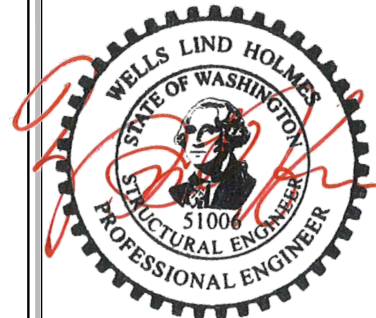


THE CONTRACTOR WILL ENSURE ALL SIGNAGE AT SITE LOCATION TO MEET WITH FCC STANDARDS AND REQUIREMENTS.



RF SIGNAGE REQUIREMENTS

SIZE:	7" X 10" X 3.5 MIL
TEXT HEIGHT:	7/32"
MATERIAL:	ADHESIVE BACKED VINYL
COMPLIANCE:	ANSI Z535 / OSHA IEEE C95.2-1999
LOCATION:	EQUIPMENT SHROUD OR RADIO IF NO SHROUD



04/27/2022

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2	04/26/22	RA	100% FINAL CD

CLIENT:



A&E CONSULTANT, SITE ACQUISITION AND PERMITTING:



ENGINEER OF RECORD:



AVISTA POLE
N/A

SPO CROSBY
SMALL CELL NODE 22
123 WALL STREET
SPOKANE, WA 99201

CONSTRUCTION DETAILS

A-6

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

J1210 HPL DISCONNECT BOX

1

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

NOC CONTACT SIGN

2

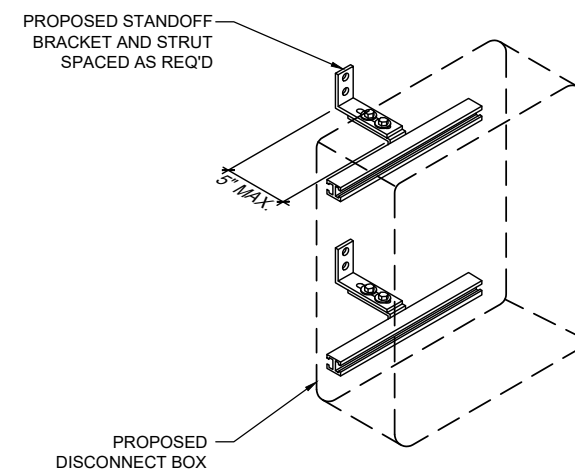
22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

RF CAUTION TAG

3

NOTE:

- NOTE:
1. ALL EXTERIOR EQUIPMENT
OUTSIDE THE SHROUD ASSEMBLY
SHALL BE BROWN COLOR



22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

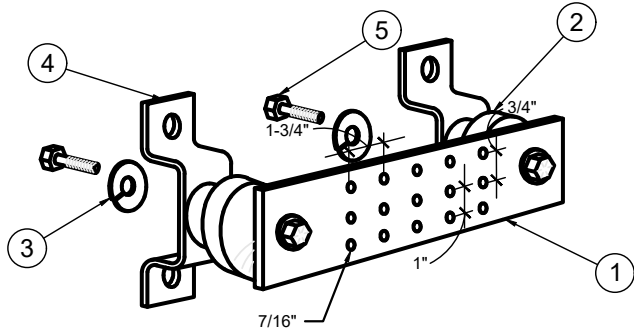
J1210 BOX MOUNTING DETAIL

4

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

NOT USED

5



1. GALVANIZED STEEL GROUND BUSBAR, 1/4" X 4" X 6".
2. INSULATORS, MEET REQUIREMENTS OF UL 94 VO FOR SELF-EXTINGUISHING MATERIALS.
3. 3/8" LOCKWASHERS.
4. MOUNTING BRACKET.
5. 3/8-11 X 1" HHCS BOLTS.

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

GROUND BAR DETAIL

1

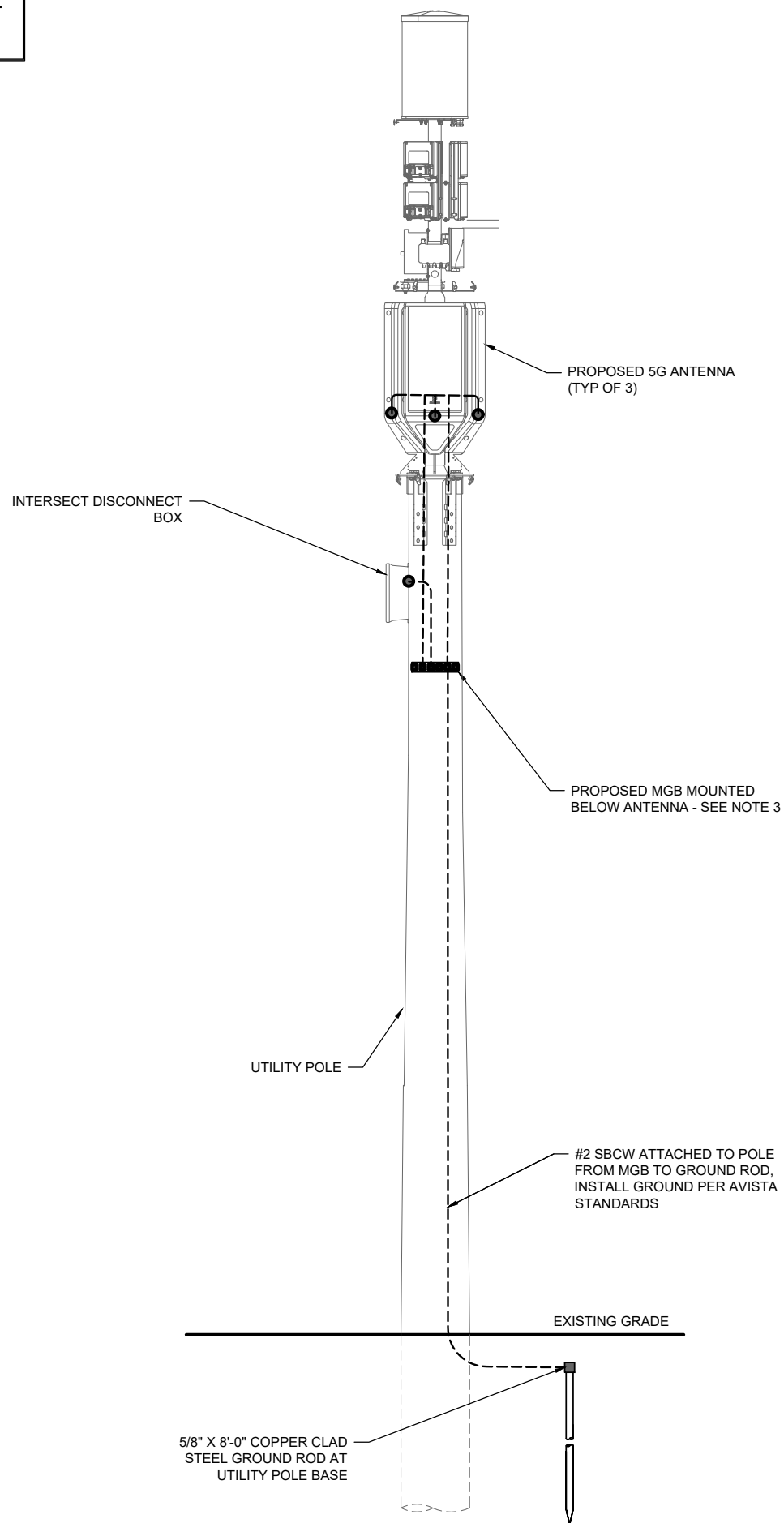
1. GROUNDING SHALL COMPLY WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE AS RECOGNIZED BY THE JURISDICTION.
2. ALL GROUNDING METHODS SHALL CONFORM TO THE CURRENT VERIZON STANDARDS.
3. MASTER GROUND BARS (MGB) SHALL BE GALVANIZED STEEL, 4" x 6" MAX.
4. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8", WHEN BENDING IS NECESSARY. GROUND CONDUCTORS ARE TO BE AS STRAIGHT AS POSSIBLE.
5. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
6. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
7. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
8. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
9. IF EXISTING GROUND ROD IS NOT PRESENT, NEW GROUND ROD SHALL MEET AVISTA STANDARDS.
10. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST 6".
11. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
12. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
13. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUND WIRE SHALL NOT BE USED. METAL CLIPS THAT DO NOT COMPLETELY SURROUND THE GROUND WIRE OR PLASTIC ARE ACCEPTABLE.

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11"x17" SCALE: NOT TO SCALE

GROUNDING NOTES

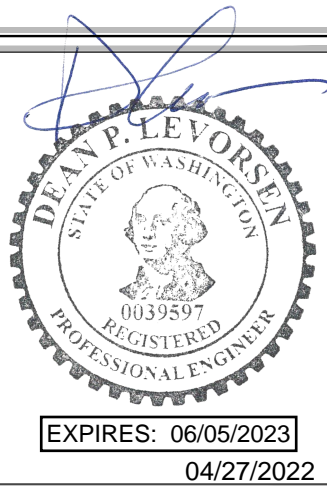
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IMAGE IS FOR DIAGRAMMATIC PURPOSES AND MAY NOT REFLECT A 27'-6" FLUTED METAL POLE W/ TOP-MOUNT ANTENNA SHROUD

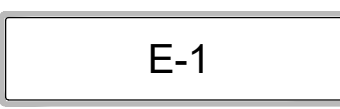
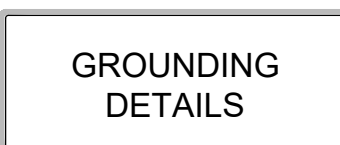
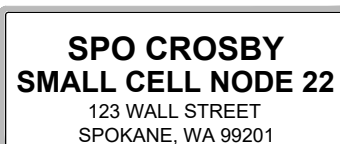


GROUNDING DIAGRAM

3



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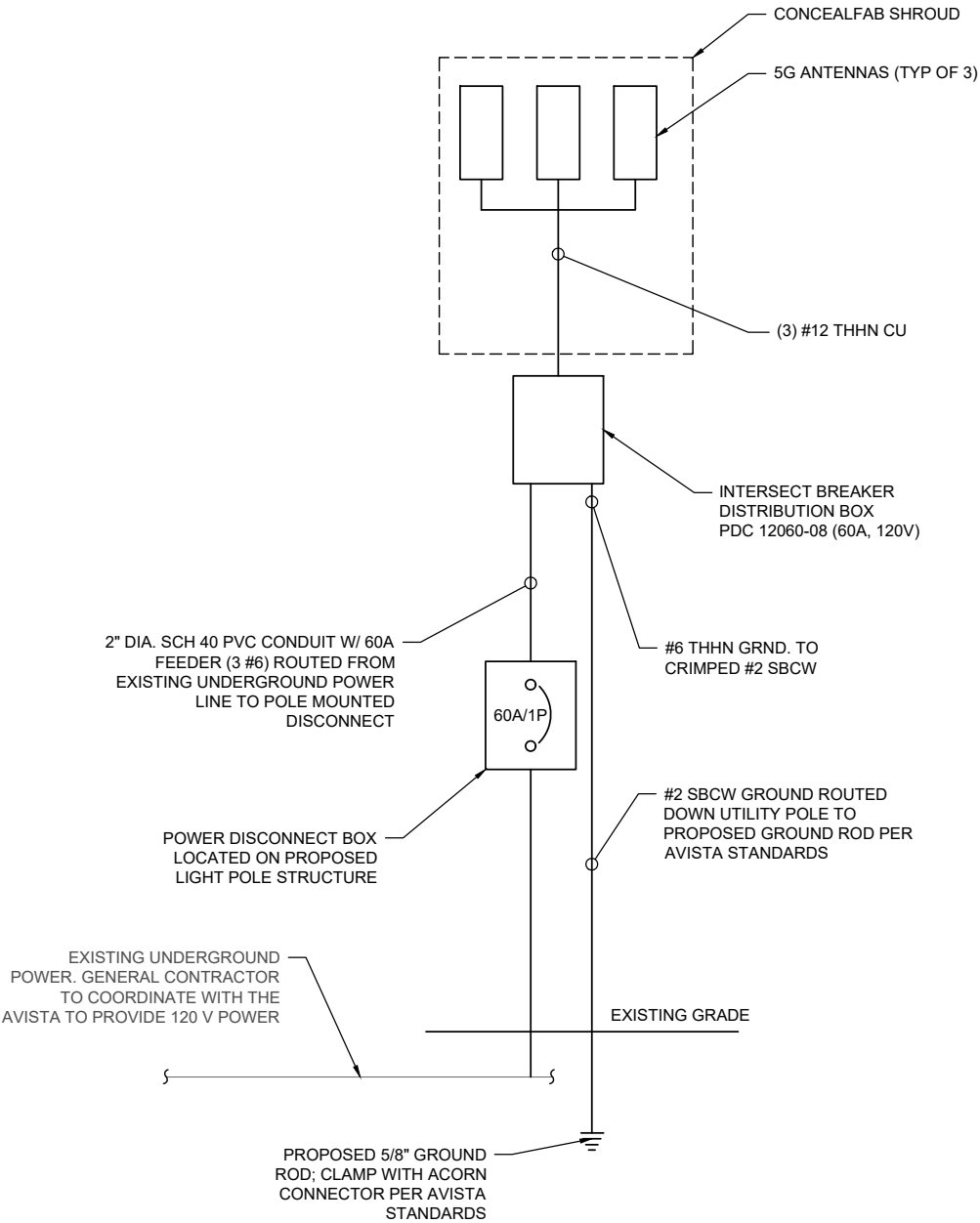


PANEL NAME		VERIZON		MANUFACTURER	INTERSECT		
VOLTS		120		MODEL NUMBER	PDC-12060-08		
PHASE	1	WIRE	3	ENCLOSURE RATING	NEMA 3R		
BUS RATING		60 AMPS (MAX)		MATERIAL	ALUMINUM		
MAIN BREAKER		60 AMPS		POSITIONS	8 CIRCUITS		
LOAD		POS	BRK	NOTES: GENERAL CONTRACTOR TO COORDINATE WITH THE AVISTA TO PROVIDE 120 V POWER. PANEL IS LOCATED INSIDE CONCEALFAB SHROUD			
220x RADIO		1	15				
220x RADIO		2	15				
220x RADIO		3	15				
220x RADIO		4	15				
220x RADIO		5	15				
220x RADIO		6	15				
5G ANTENNAS		7	15				
SPARE		8	15				

22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

TYPICAL PANEL SCHEDULE

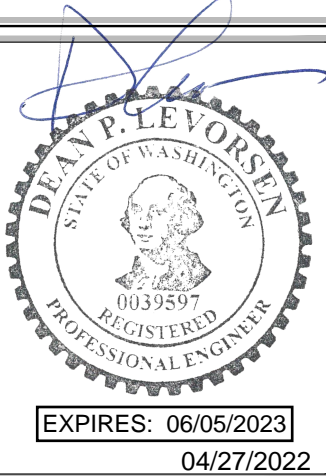
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22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

TYPICAL ONE-LINE DIAGRAM

2



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1	08/26/21	RA	CITY COMMENTS
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CLIENT:



A&E CONSULTANT, SITE ACQUISITION AND PERMITTING:



ENGINEER OF RECORD:



AVISTA POLE
N/A

SPO CROSBY
SMALL CELL NODE 22
123 WALL STREET
SPOKANE, WA 99201

TYPICAL
ONE-LINE DIAGRAM

E-2



STRUCTURAL DETAILS WITH FOUNDATION INSTALLATION

FOR A:
**27'-6" FLUTED DECORATIVE
ANTENNA / LIGHT POLE**

LOCATED AT:
SPOKANE DT
VARIOUS NODE LOCATIONS
SPOKANE, WA
SPOKANE COUNTY

CONSULTANT



5032 SALEM DALLAS HWY
SALEM, OR 97304
Ph: 503-587-0101 Fx: 503-316-1864
WesternUtilityTelecom.com

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CLIENT



PROJECT

27'-6" FLUTED DECORATIVE
ANTENNA / LIGHT POLE

LOCATION

SPOKANE DT
VARIOUS NODE LOCATIONS
SPOKANE, WA
SPOKANE COUNTY

ISSUED FOR

PERMIT/INSTALL

DW'N BY

JLH

CK'D BY

AWM

DATE

13MAY21

REVISIONS

REV.	CHANGES	DATE	BY

ENGINEER SEAL



May 13, 2021

SHEET TITLE

TITLE SHEET

WUT PROJECT NUMBER

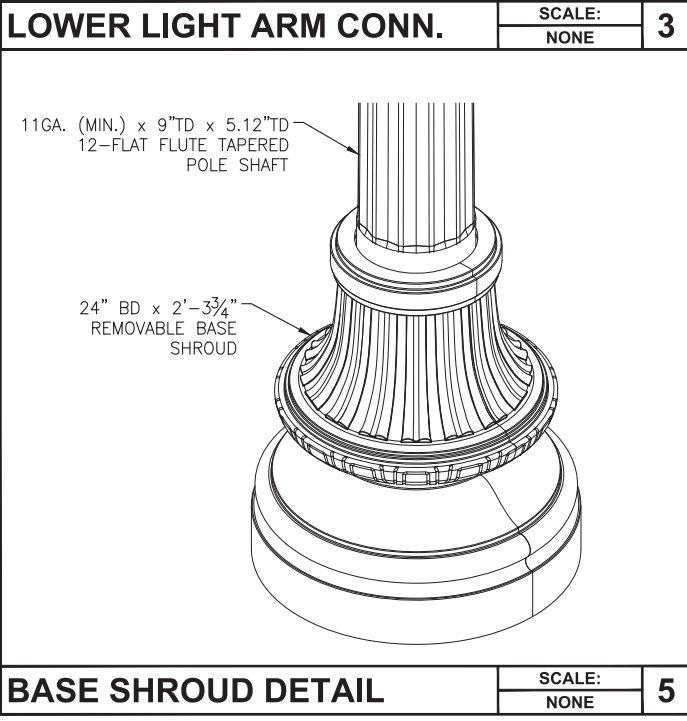
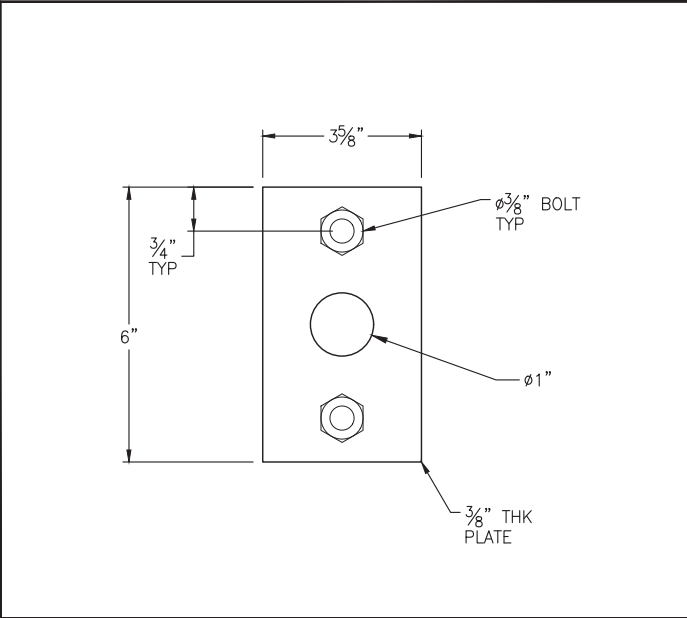
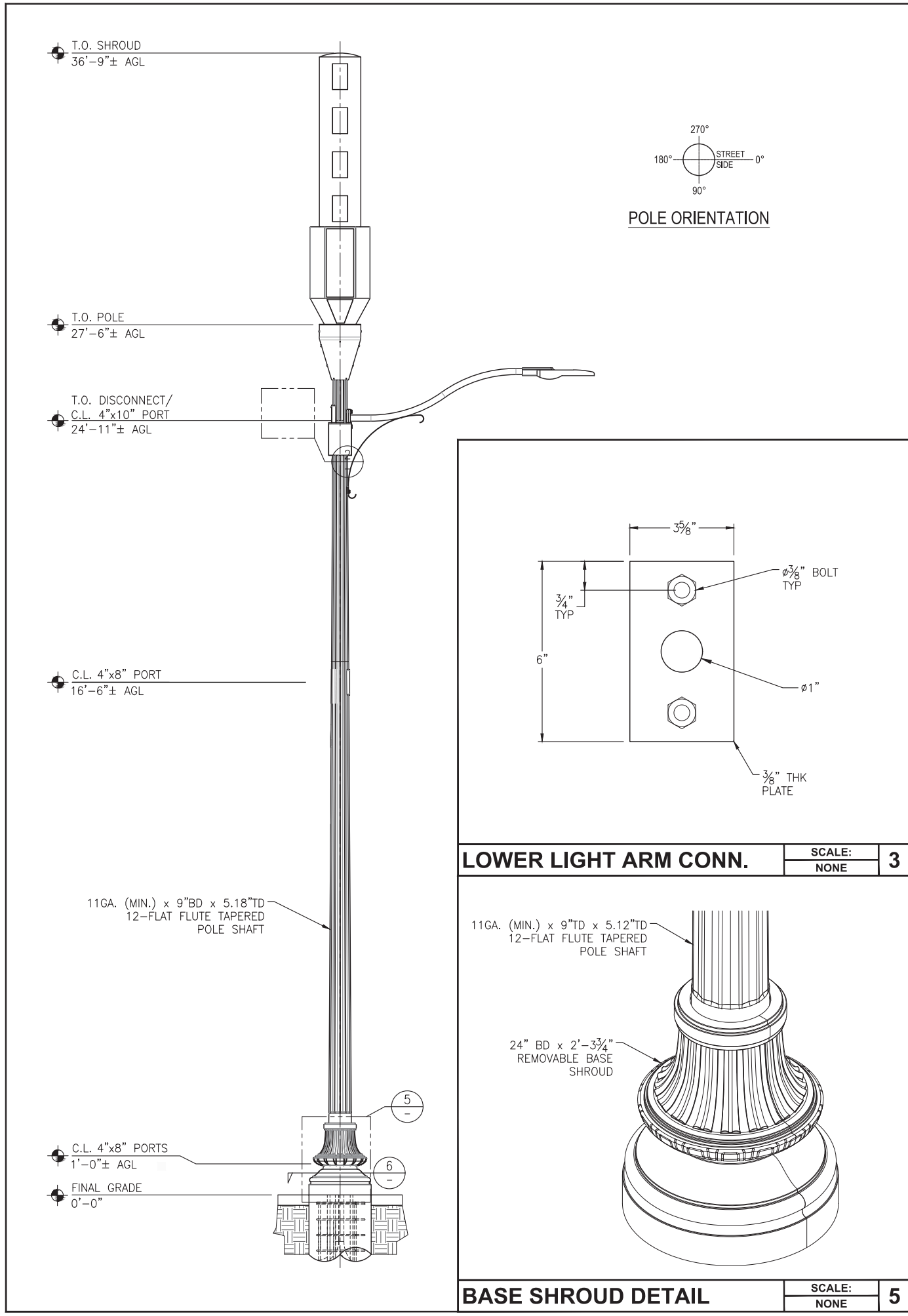
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DRAWING NUMBER

PD-002134

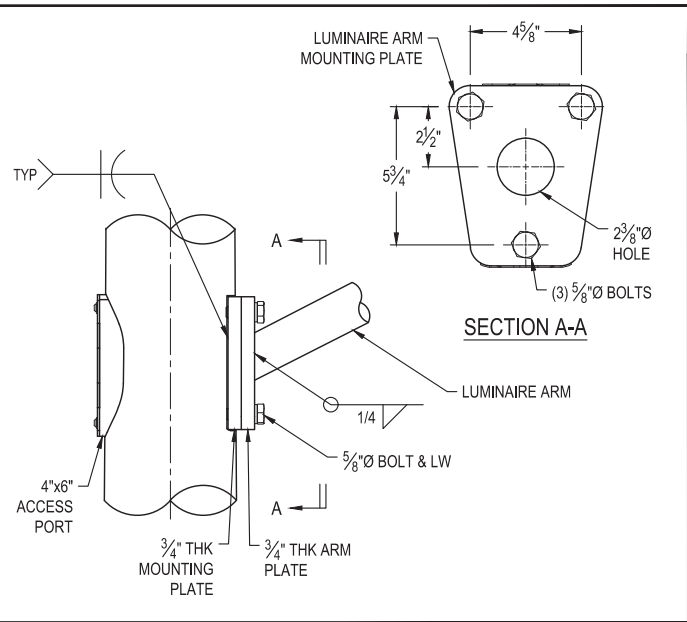
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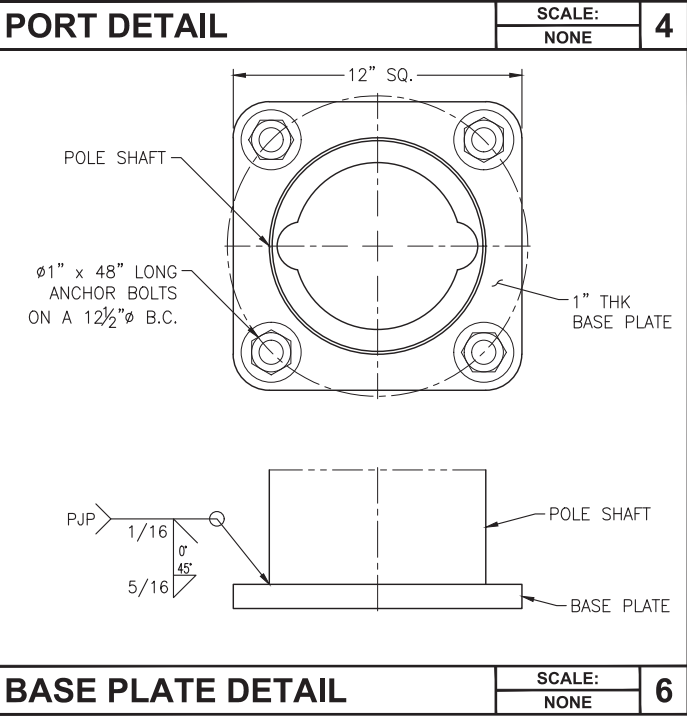
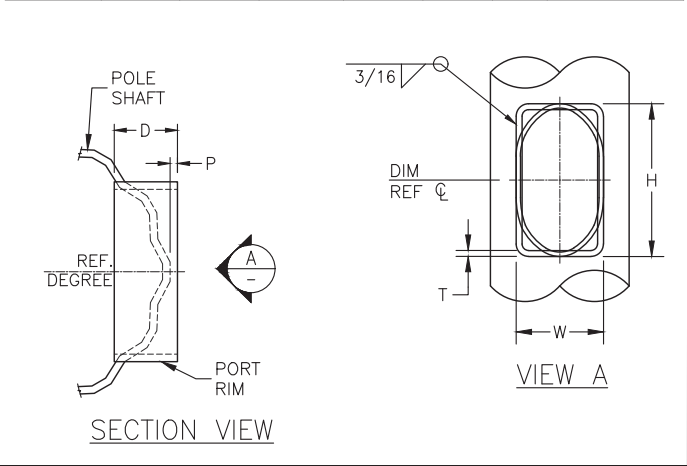


LOWER LIGHT ARM CONN. SCALE: NONE 3

BASE SHROUD DETAIL SCALE: NONE 5



PORT SCHEDULE							
DIM	REF	Ø	W	H	D	T	P
24'-11"		4"	10"	1 1/2"	1/4"	1/4"	1
16'-6"		4"	10"	1 1/2"	1/4"	1/4"	1
1'-0"		4"	10"	1 1/2"	1/4"	1/4"	2



PORT DETAIL SCALE: NONE 4

BASE PLATE DETAIL SCALE: NONE 6

- ### GENERAL DESIGN NOTES:
- DESIGN NOTES AND MATERIAL REQUIREMENTS:**
- 1) THE DESIGN CRITERIA FOR THIS STRUCTURE IS AS FOLLOWS:
- A) **STANDARDS AND DESIGN CODES:**
- INDUSTRY STANDARD: ANSI/TIA-222-H, 2018 IBC
1609.1.1 EXCEPTION 5 &
AASHTO LRFD-LTS 1
AISC 15TH EDITION
ACI 318-14
ANSI/AWS D1.1.15
- STEEL MANUAL:
CONCRETE CODE:
WELDING CODE:
- B) **DESIGN:**
- WIND(V): 103 MPH (3-SECOND GUST)
PER PER 2018 IBC, SECTION 1609.3.1
- RISK CATEGORY: II
EXPOSURE CATEGORY: C
TOPOGRAPHIC CATEGORY: 1
- ICE: 1.5" RADIAL ICE @ 30 MPH (3-SECOND GUST)
- SOIL: PER 2018 IBC, TABLE 1806.2, CLASS 4 MAT'L
- SEISMIC: PER 2018 IBC SECTION 1613, ASCE 7-16, SECTIONS 15.1.3 & 12.8
- C) **LOADING:**
- (1) 4G/5G ANTENNA SHROUD, WT. = 300 LBS., C.L. @ 32.38' ± AGL
- (1) ANTENNA SKIRT, WT. = 35 LBS., C.L. @ 26.74' ± AGL
- (1) 9" T X 27" L COBRA HEAD LUMINAIRE, WT. = 35 LBS., C.L. @ 27' ± AGL
- (1) 10' LONG (MAX.) LUMINAIRE ARM, WT. = 95 LBS., C.L. @ 25.96' ± AGL
- (1) 2' LONG (MAX.) LUMINAIRE ARM, WT. = 35 LBS., C.L. @ 16.5' ± AGL
- (1) PENDANT LUMINAIRE, WT. = 35 LBS., C.L. @ 16' ± AGL
- (1) DECORATIVE BASE SHROUD, WT. = 50 LBS., C.L. @ 1.16' ± AGL
- D) **FACTORED BASE REACTIONS:**
- OVERTURNING MOMENT = 16.7 FT-KIPS
- BASE SHEAR = 0.82 KIPS
- BASE WT = 1.00 KIPS
- 2) **GENERAL STRUCTURAL NOTES:**
- A) ALL MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
- POLE SHAFT: ASTM A595 GR. A
- BASEPLATE: ASTM A36
- PORTS: ASTM A500 GR. B
- PLATES: ASTM A36
- WELDS: E70XX ELECTRODES
- STRUCTURAL BOLTS: ASTM F3125 GR. A325
- ANCHOR BOLTS: ASTM F1554 GR. 55
- REBAR: ASTM A615 GR. 60
- B) ALL WELDING TO BE PERFORMED BY WELDERS CERTIFIED IN ACCORDANCE WITH AWS D1.1. FIELD WELDING IS PROHIBITED.
- C) ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- D) ALL STRUCTURAL BOLTS SHALL BE TIGHTENED TO SNUG-TIGHT AS DEFINED BY AISC 15TH ED., PG. 16.2-51 PARAGRAPH 8.1

- ### GENERAL NOTES:
- 1) CONTRACTOR SHALL FIELD VERIFY SITE OR LAYOUT RESTRICTIONS, SITE CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF WESTERN UT, INC. PRIOR TO BEGINNING PROJECT. ALL WORK SHALL BE PERFORMED USING ACCEPTED CONSTRUCTION PRACTICES.
- 2) NO FIELD MODIFICATIONS MAY BE MADE TO MONOPOLE WITHOUT THE EXPRESS WRITTEN CONSENT FROM THE ENGINEER OF RECORD. WESTERN UT, INC. AND ENGINEER OF RECORD ASSUME NO RESPONSIBILITY FOR THE STRUCTURE IF ALTERATIONS AND/OR ADDITIONS ARE MADE TO THE DESIGN AS SHOWN IN THESE DRAWINGS.
- 3) THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES, REGULATIONS, AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
- 4) THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK TO THE BEST OF HIS/HER ABILITY AND SKILL. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 5) THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING SAME, WHETHER SHOWN OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, FORMWORK, ETC., AND SHALL CONFORM TO ALL NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, IN ORDER TO SAFELY EXECUTE ALL STAGES OF WORK TO COMPLETE THIS PROJECT.
- 6) IT IS THE INTENT OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION OF THE STRUCTURE SHOWN.
- 7) CONTRACTOR ASSUMES RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THIS REQUIREMENT APPLIES CONTINUOUSLY, AND IS NOT LIMITED TO NORMAL WORKING HOURS.
- 8) CONTRACTOR TO HOLD ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- 9) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN. THE CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK ON THIS PROJECT.

CONSULTANT

WESTERN
UTILITY / TELECOM, INC.

5032 SALEM DALLAS HWY
SALEM, OR 97304
Ph: 503-587-0101 Fx: 503-316-1864
WesternUtilityTelecom.com

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CLIENT

verizon

PROJECT

27'-6" FLUTED DECORATIVE
ANTENNA / LIGHT POLE

LOCATION

SPOKANE DT

VARIOUS NODE LOCATIONS
SPOKANE, WA
SPOKANE COUNTY

ISSUED FOR

PERMIT/INSTALL

DW'N BY CK'D BY DATE

JLH AWM 13MAY21

REVISIONS

REV.	CHANGES	DATE	BY

ENGINEER SEAL

ADRIAN McJUNKIN
STATE OF WASHINGTON
REGISTERED ENGINEER
36767

May 13, 2021

SHEET TITLE

**ELEVATION VIEW &
STRUCTURAL DETAILS**

WUT PROJECT NUMBER

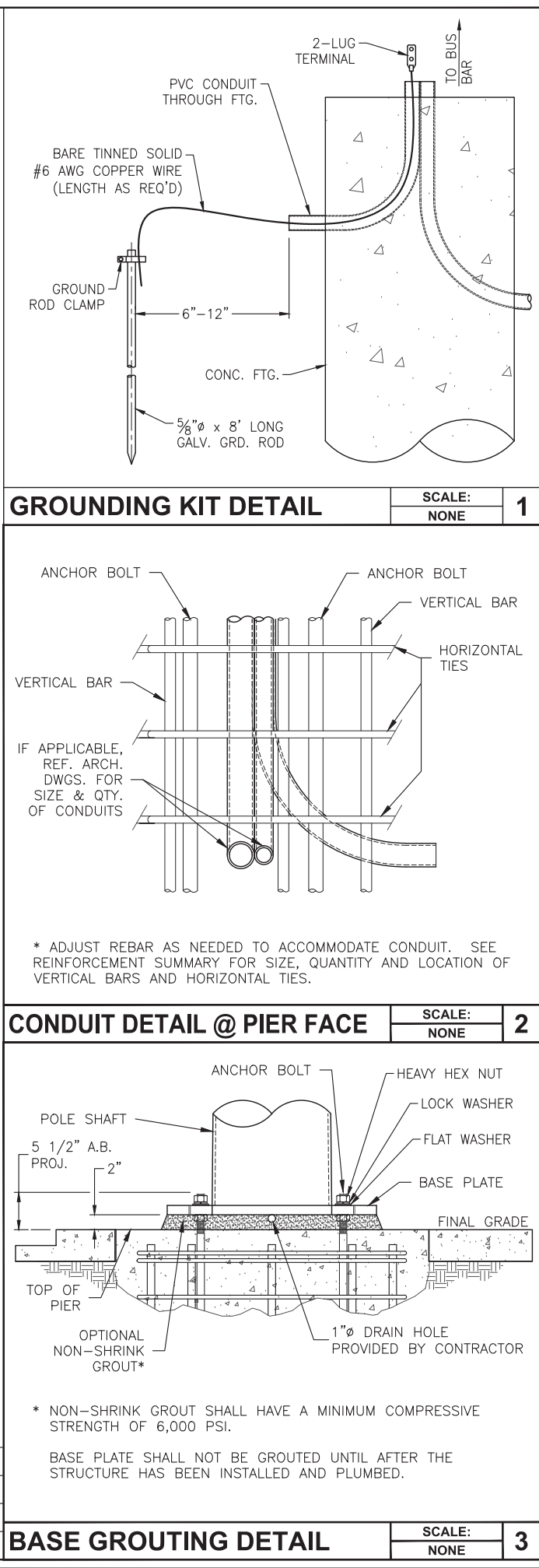
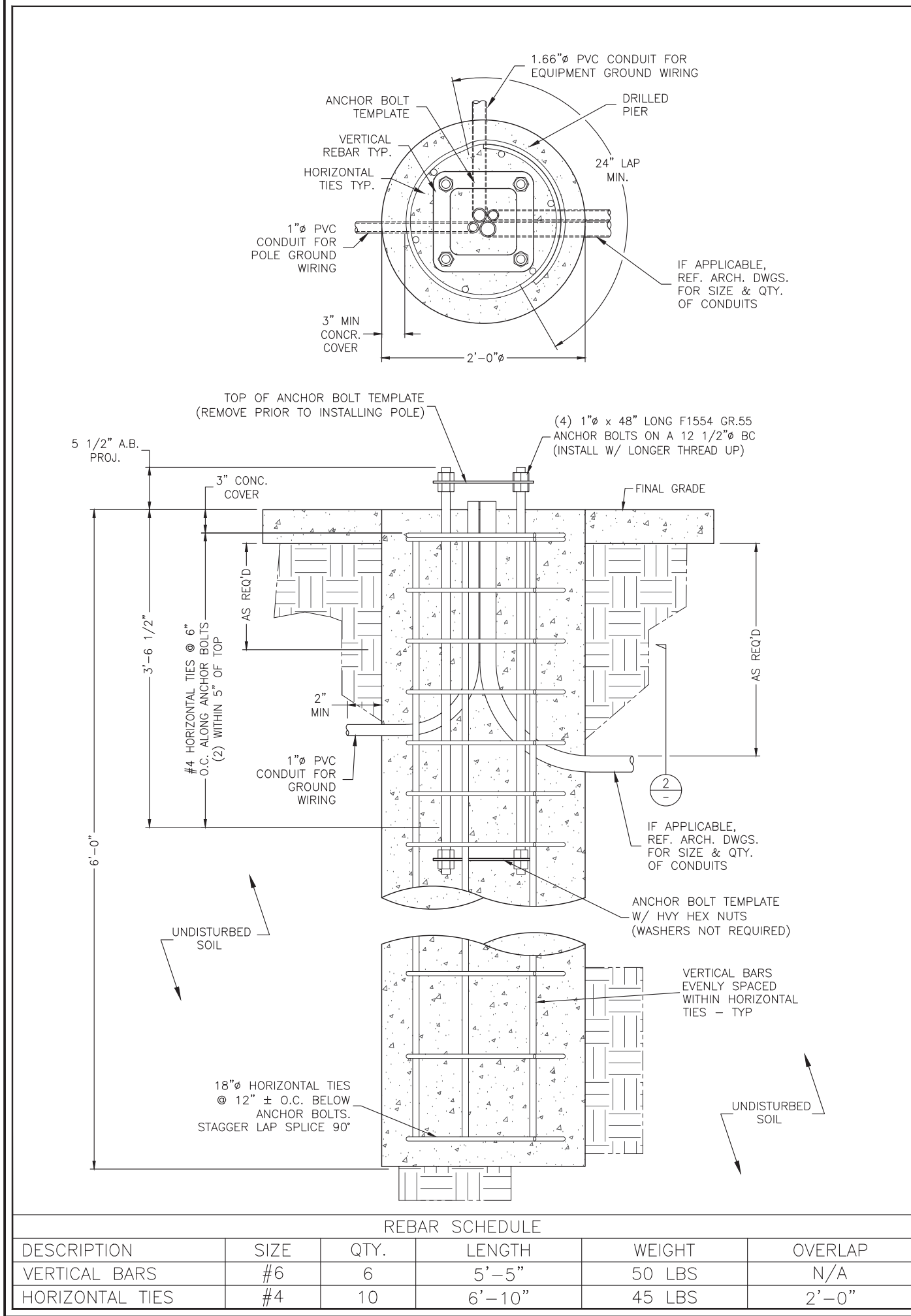
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DRAWING NUMBER

PD-002134

PAGE NUMBER

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GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL REFER TO SOILS REPORT (IF PROVIDED) FOR SITE CONDITIONS AND FURTHER CONSTRUCTION INFORMATION.
- CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPOLE INSTALLATION.
- CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR.60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING REBAR IS PREFERRED, SUBSTITUTE USING A706 GR. 60 DEFORMED BARS.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE. MIX DESIGN: 6½ SACKS OF CEMENT MINIMUM PER CUBIC YARD. 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS THROUGHOUT DEPTH OF FOUNDATION. VIBRATING LOWER DEPTHS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
- CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL-LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATED HOLE. CONCRETE SHALL BE PLACED USING CONVENTIONAL METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FT. CONCRETE MAY BE PLACED BELOW WATER USING TREMIE METHODS.
- CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CAGE, ANCHOR BOLTS, AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE TOWELED LEVEL AND SMOOTH.
- DRILLED PIER FOUNDATION DESIGN PER 2018 IBC, TABLE 1806.2, CLASS 4 MATERIAL.
- TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 0.7 CU. YDS.

FACTORED BASE REACTIONS

MOMENT = 16.7 FT-KIPS
SHEAR = 0.82 KIPS
VERTICAL = 1.00 KIPS

SPECIAL INSPECTIONS

SPECIAL INSPECTION:
THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2018 IBC, SECTION 17.

ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PIER EXCAVATION LATERAL BEARING ALLOWABLE CAPACITY	SOILS ENGINEER	150 PSF/FT LATERAL
2	PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A615 GR.60
3	ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR.55
4	CONCRETE TEST SPECIMENS	SPECIAL INSPECTOR	f _c = 4,000 PSI TYPE II CEMENT

CONSULTANT

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CLIENT

verizon

PROJECT
27'-6" FLUTED DECORATIVE ANTENNA / LIGHT POLE

LOCATION

SPOKANE DT
VARIOUS NODE LOCATIONS
SPOKANE, WA
SPOKANE COUNTY

ISSUED FOR
PERMIT/INSTALL

DW'N BY: CK'D BY: DATE:
JLH AWM 13MAY21

REVISIONS

REV.	CHANGES	DATE	BY

ENGINEER SEAL

ADRIAN McJUNKIN
STATE OF WASHINGTON
REGISTERED ENGINEER
36767

May 13, 2021

SHEET TITLE
PIER FOUNDATION INSTALLATION

WUT PROJECT NUMBER
21-0155

DRAWING NUMBER
PD-002134

PAGE NUMBER
F-1