

WY3 FISHING BRIDGE

GRAND LOOP ROAD
YELLOWSTONE NATIONAL PARK, WY 82190
TETON COUNTY

ALT #3 RAW LAND SITE

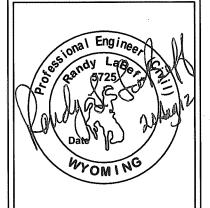
PROJECT	DATA	SHE	EET INDEX		PROJECT LOCATION	PROJECT DESCRIPTIO
	ALT #3	SHT. NO.	SHEET TITLE	REV. NO.	DRIVING DIRECTIONS: IN YELLOWSTONE NATIONAL PARK, GO TO THE INTERSECTION OF GRAND LOOP AND EAST ENTRANCE ROAD NEAR FISHING BRIDGE, GO 0.5 MILES SOUTHWEST ON GRAND LOOP TO ROAD ON WEST SIDE. TURN WEST AND PROCEED	TOWER TYPE: 100' LATTICE TOWER
	WY3 FISHING BRIDGE SEC. 18, T53N, R112W, 6th P.M.	T-1	TITLE SHEET	G	THROUGH RESIDENTIAL/INDUSTRIAL AREA ABOUT 1/4 MILE. FOLLOW ROAD UP HILL TO WATER TANK SITE ANOTHER 0.4 MILES, END OF ROAD IS SITE, CONTACT DUSTIN SENE FOR KEY ON GATE.	EQUIPMENT TYPE: NORTEL
	GRAND LOOP ROAD	N-1	NOTES	В	ONT MILES, END OF NOTE OF CHELOCOLING SECTION SERVED SECTION S	SECTOR(S): (2)
	YELLOWSTONE NATIONAL PARK, WY 82190	C-1	SITE SURVEY	A		ADDITIONAL INFO: GALVANIZED TOWE
PARCEL NUMBER:	TETON COUNTY	C-2	OVERALL SITE PLAN AND SITE PLAN	D		TO BE ACID DIPPED PRE-OXIDIZED
	N/A	C-2a	ENLARGED SITE PLAN	D		TO ELIMINATE GLARE
CURRENT ZONING:	<i>'</i>	C-3	ELEVATION	G	_	
	NATIONAL PARK SERVICE	C-4	ANTENNA PLAN AND DETAILS	F		
	DUSTIN SENE / (307) 344-3432	C-5	SITE AND EQUIPMENT DETAILS	В	STONETOP MTN A N	APPROVALS
PROPERTY OWNER:		C-6	EQUIPMENT BUILDING PLAN	В		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	NAME / PHONE	E-1	UTILITY PLAN AND DETAILS	С		
	VERIZON WIRELESS 3131 S VAUGHN WAY STE 550	E-2	SITE GROUNDING PLAN AND DETAILS	В		LANDLORD
	AURORA, CO 80014-3583	E-3	GROUNDING DETAILS	В	Sulphur Hills	DANDLORD
	DIGITAL SKYLINES, INC.					
CONSTRUCTION	KEVIN HOWELL / (480) 425-9353 VERIZON WIRELESS KENT MCDERMOTT / (406) 941-2110				PARK COUNTY TETON COUNTY	LEASING
POWER:	NORTHWESTERN ENERGY (888) 467-2669				SITE FISHING BRIDGE	R.F. ZONING
	QWEST (800) 244-1111				ELEPHANT BACK MTN A LAKE VILLAGE	
LONGITUDE: ELEVATION:	N 44' 33' 55.33" (NAD-1983) W 110' 23' 59.63" (NAD-1983) 7978' (NAVD-1988) TBD				YELLOWSTONE LAKE	CONSTRUCTION A&E
	N/A N/A				VICINITY MAP NOT TO SCALE	





1720 W. FOURTH AVE. SPOKANE, WA 99204 PH. (509)747-4600 FAX: (509) 747-8913

A&C PROJECT # 2009-01-107



APPROVALS FNE ENGINEER RF ENGINEER REAL ESTATE AREA MANAGER PROPERTY OWNER ZONING CONSTRUCTION

	REVISIONS								
(A)	08/16/12	LOWER ANTENNAS							
\triangle	08/13/12	ANTENNA HEIGHT							
A	08/08/12	FIBER OPTIC DELINEATION							
A	08/02/12	FINAL CD							
A	07/26/12	PRELIMINARY CD							
A	04/20/12	PRELIMINARY ZD							

DIRECTOR_

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SITE ALT #3

WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE
TITLE SHEET

T-1

GENERAL NOTES

- 1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY AND SECURITY ISSUES FROM DATE OF CONSTRUCTION COMMENCEMENT UNTIL FINAL ACCEPTANCE BY CLIENT.
- 2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SANITATION REQUIREMENTS FROM DATE OF CONSTRUCTION COMMENCEMENT UNTIL FINAL ACCEPTANCE BY CLIENT
- 3. GENERAL CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS FOR GROUNDING AND ITILITY SPECIFICATIONS AS SET FORTH IN THE INTERNATIONAL BUILDING CODE 2006 AND VERIZON WIRELESS SPECIFICATIONS.
- 4. COMBUSTIBLE CONSTRUCTION WASTE SHALL BE HAULED OFF PREMISES. NO OPEN BURNING

EARTHWORK NOTES

- 1. ALL EXCAVATIONS SHALL BE DEWATERED BY SUMP, PUMPING, ETC. IN A MANNER WHICH WILL NOT LOOSEN FOUNDATION SUB GRADE MATERIAL. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS BY MEANS OF BERMS, DIVERSION DITCHES, OR OTHER SUITABLE
- CONFINED EXCAVATIONS FOR FOUNDATIONS, UTILITIES, ETC. SHALL BE LIMITED TO 4 FT. IN DEPTH UNLESS SHORING AND BRACING ARE USED. TRENCH EXCAVATION GEOMETRY AND/OR BRACING SHALL CONFORM WITH THE LATEST OSHA (OCCUPATIONAL SAFETY AND HEALTH
- 3. BACK FILL PLACED TO ESTABLISH GRADE BENEATH FOUNDATIONS AND PAVEMENTS SHALL BE SELECT, WELL GRADED, GRANULAR MATERIAL, SELECT FILL SHALL BE PLACED IN MAXIMUM LOOSE LIFT THICKNESSES OF 6 INCHES AND COMPACTED WITH PLATE TAMPERS. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY PER ASTA D155.7. CONFINED AREAS WHERE ONLY HAND TAMPING IS FEASIBLE, FILL SHALL BE PLACED IN MAXIMUM 4 INCH LOOSE LIFTS AND COMPACTED TO THE AFOREMENTIONED CRITERIA.
- 4. COMPACTED BACK FILL SHALL BE CLEAN, WELL-GRADED, FREE DRAINING SOIL CONFORMING TO THE FOLLOWING GRADATIONS:

SIEVE SIZE	PERCENT BY WEIGHT PASSING
4"	100
1/4"	30-80
No 40	5-50
No 200	0-10

COMPACTION SHALL ACHIEVE A MINIMUM DENSITY OF 95% OF THE SOIL'S MAXIMUM DENSITY WHEN TESTED IN THE LABORATORY IN ACCORDANCE WITH ASTM D1557.

 NEW ACCESS ROADS SHALL BE SURFACED WITH CRUSHED BASE AGGREGATE GRADING CONFORMING TO WYOMING STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, WITH THE FOLLOWING GRADATIONS:

SIEVE SIZE	PERCENT BY WEIGHT PASSING				
1 –¾"	100				
1"	90-100				
1/2"	60-85				
No. 4	45-65				
No. B	33-53				
No. 200	3-12				

- 6. TREES AND VEGETATION SHALL BE REMOVED ON A SITE BY SITE BASIS AS DETERMINED BY JURISDICTION AND CONSTRUCTION MANAGER REQUIREMENTS. NO STOCKPILES OR BURNING SHALL BE PERMITTED ON THE SITE.
- FILTER FABRIC SHALL BE MIRAFI-FILTER 500X AS MANUFACTURED BY CARTHAGE MILLS, CINCINNATI, OHIO OR APPROVED EQUAL.

CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 31B AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
- 2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNI ESS NOTED OTHERWISE
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE
- 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER:		3 IN.
#6 AND LARGER:		2 IN.
#5 AND SMALLER & WWF:	1	1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:		
SLAB AND WALL:		3/4 IN.
BEAMS AND COLUMNS:		1 1/2 IN.

- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- 7. WELDING OF REINFORCING STEEL IS PROHIBITED.
- AIR ENTRAINMENT SHALL BE A MINIMUM OF 4.5—PERCENT AND A MAXIMUM OF 7.5—PERCENT FOR ALL CONCRETE.

STRUCTURAL STEEL NOTES

- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION
- 2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 "STRUCTURAL STEEL" UNLESS OTHERWISE INDICATED.
- 3. STEEL TUBING SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B.
- 4. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 "PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED WELDED AND SEAMLESS", TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- 5. FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE INDICATED.
- 6. STRUCTURAL CONNECTION BOLTS SHALL BE SAE J429 GRADE 5 BOLTS UNLESS SPECIFIED OTHERWISE ON EQUIPMENT SUPPLIER DRAWINGS OR ON THESE DRAWINGS.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- 9. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE",
- 10. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN
- 11 SUBMIT SHOP DETAIL DRAWINGS OF ALL STRUCTURAL AND MISCELLANEOUS STEEL TO THE ENGINEER FOR APPROVAL, AND INCORPORATE ALL COMMENTS PRIOR TO FABRICATION
- 12. GRATING SHALL BE GALVANIZED SERRATED WELDED STEEL BAR GRATING WITH 1"x3/16" BEARING BARS AT 1-3/16" OC. FASTEN TO SUPPORTING MEMBERS WITH SADDLE-TYPE CLIPS AND BAND ALL EXPOSED EDGES.
- 13. SLEEVE ANCHORS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 3, CLASS 3, AS MANUFACTURED BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE (3) INCHES.
- 14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS 1, HILTI KWIK BOLT 3 OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL
- 15. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER APPROVAL.
- 16. ALL WORK SHALL BE INSPECTED BY THE CONSTRUCTION MANAGER DURING AND AT THE COMPLETION OF CONSTRUCTION. SPECIAL INSPECTIONS SHALL BE REQUIRED ONLY WHEN IT IS REQUIRED BY THE JURISDICTION.
- 17. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8" x 1 5/8" x 12GA, UNLESS OTHERWISE NOTED AND SHALL BE HOT—DIP GALVANIZED AFTER FABRICATION.

ANTENNA MOUNTING NOTES

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA/EIA/222-G "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- 2. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- 3. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE",
- 4. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT PER AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 4.1, JUNE 23, 2000.

GENERAL UTILITY NOTES

- CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND
- 2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS. AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT, MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITERS LABORATORIES (U.L.) AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. AND SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.
- 4. CONTRACTOR TO COORDINATE WITH BUILDING OWNER FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE, THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR
- 5. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS
- 6. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AS INDICATED BY UTILITY
- METER SOCKET AMPERES, VOLTAGE, AND NUMBER OF PHASES SHALL BE AS NOTED AND SHALL BE MANUFACTURED BY SQUARE "D" COMPANY, SANGAMO, OR APPROVED EQUAL. METER SOCKET SHALL BE ROVED BY UTILITY COMPANY PRIOR TO INSTALLATION
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM WITH TYPE THWN INSULATION UNLESS
- 9. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD. PULLBOX. J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OSHA REQUIREMENTS.

10. CONDUIT:

- A RIGID CONDUIT SHALL BE ILL LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE LISED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR.
- B. ELECTRICAL METALLIC TUBING (EMT) SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS. NO SET SCREW OR CRIMP TYPE
- C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
- PVC CONDUIT AND FITTINGS SHALL HAVE U.L. LABEL AND SHALL BE PVC SCHEDULE 40.
 CONDUIT SHALL BE SIZED PER THE NEC, AND AS SHOWN.
 CONDUIT SHALL BE SIZED PER THE NEC, AND AS SHOWN.
 CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROLLTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLING
- G. ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE
- 11. REFER TO MANUFACTURER'S MANUAL FOR RECOMMENDED FUSE AND WIRE SIZES
- 12. ALL FINAL CONNECTIONS TO THE EQUIPMENT ARE TO BE OF FLEXIBLE WEATHERPROOF CONDUIT TO MEET
- 13. PROVIDE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH, GAINING APPROVALS AND PAYING ALL FEES ASSESSED BY UTILITY COMPANY FOR ELECTRICAL SERVICE
- 15. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND CODE APPROVED MATERIALS.
- 16. CONTRACTOR SHALL COORDINATE TELCO SERVICE WITH LOCAL TELEPHONE COMPANY. TERMINATE TELCO CONDUIT FOR INTERFACE WITH LOCAL SYSTEM. TELCO CONDUIT TO BE INSTALLED TO ACCOMMODATE THE FUTURE USE OF FIBER OPTIC CABLE. CONDUITS RUN UNDERGROUND FROM TELCO DEMARC TO TELCO BACKBOARDS OR DIRECT TO H-FRAME SHALL BE 4" DIA. SCHEDULE 40 PVC WITH MINIMUM 2' RADIUS SWEEPS AND ELBOWS AT BENDS, PULL ROPES SHALL BE INSTALLED IN ALL TELCO CONDUIT, PER LOCAL TELEPHONE COMPANY

GROUNDING NOTES

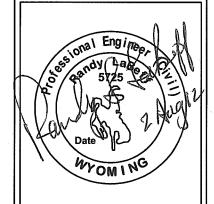
- 1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES
- 2. ALL BUS CONNECTORS SHALL BE TWO-HOLE, LONG-BARREL TYPE COMPRESSION LUGS, T&B OR EQUAL UNLESS OTHERWISE NOTED ON DRAWINGS. ALL LUGS SHALL BE ATTACHED TO BUSSES USING STAINLESS STEEL BOLTS, NUTS, AND LOCK WASHERS. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED.
- 3. ALL CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS, T&B #TBM 8 OR EQUIVALENT
- 4. ALL CONNECTIONS SHALL BE MADE TO BARE METAL, ALL PAINTED SURFACES SHALL BE FILED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
- 5. ALL BENDS SHALL BE AS SHALLOW AS POSSIBLE, WITH NO TURN SHORTER THAN AN 8-INCH RADIUS.
- 6. GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2. ALL GROUNDING CONDUCTORS SHALL RUN THROUGH PVC SLEEVES WHEREVER CONDUCTORS RUN THROUGH WALLS, FLOORS, OR CEILINGS. IF CONDUCTORS MUST RUN THROUGH EMT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
- 7. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 2 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- 8. ALL ROOF TOP ANTENNA MOUNTS SHALL BE GROUNDED WITH A #2 GROUND WIRE CONNECTED TO THE NEAREST GROUND BUS. ALL CONNECTIONS ARE TO BE CAD-WELDED IF POSSIBLE
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO THE PROJECT MANAGER.
- 10. GROUNDING CONNECTION TO TRAVEL IN A DOWNWARD DIRECTION.
- 11. ALL ABOVE GRADE CAD-WELDS SHALL BE COLD GALVANIZED





A&C PROJECT # 2009-01-107

1720 W. FOURTH AVE SPOKANE, WA 9920



APPF	ROVALS
FNE	
ENGINEER	
RF	
ENGINEER	
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MANAGER	
PROPERTY	
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A	08/02/12	FINAL CD					
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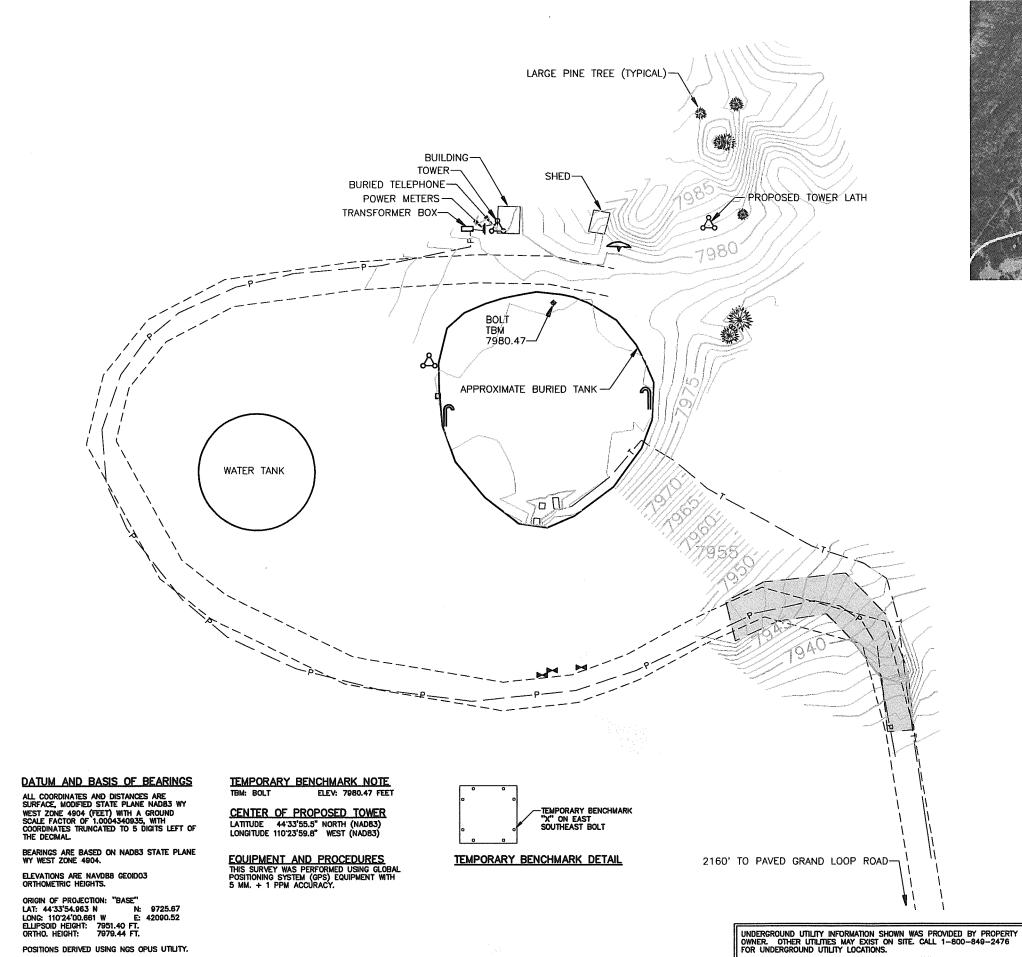
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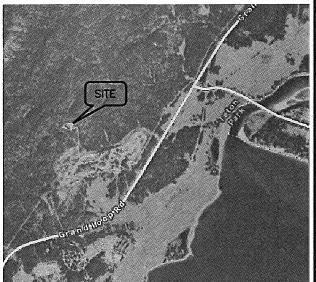
WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK. WY

> SHEET TITLE NOTES

N-1





VICINITY MAP

LEGEND

= GRAVEL

= TEMPORARY BENCHMARK

= TELEPHONE PEDESTAL

D- = UTILITY POLE

- = EASEMENT

O = FOUND ALUMINUM CAP

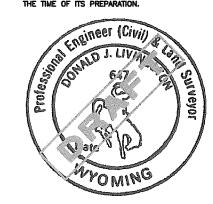
= SET 2" ALUMINUM CAP

- T- - BURIED TELEPHONE

SURVEYOR'S CERTIFICATE

STATE OF WYOMING)SS.

I, DONALD J, LIVINGSTON, OF ENGINEERING ASSOCIATES IN CODY, WYOMING, HEREBY CERTIFY THAT THIS MAP WAS PREPARED FROM NOTES TAKEN DURING ACTUAL SURVEYS PERFORMED UNDER MY DIRECTION ON OCTOBER 24, 2007 AND JUNE 6, 2008, AND THAT TO MY KNOWLEDGE, THIS MAP SHOWS THE SITUATION ON THE GROUND AT THE TIME OF ITS PREPARATION.



0 20 40 80

SCALE (FT)

ORIGINAL SCALE: 1" = 40'





ENGINEERING ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
P. 0. BOX 1900 • 902 137h STREET
COOTY, WYOLAND 82414
(307) 587-991 • 587-2596 FAX

JOD 160. 09104.00

AFRIOVALS

MANAGES.

PROPERTY OWNER_

CONSTRUCTION DESCRO

↑ O8/24/09 PRELIMINARY DWG

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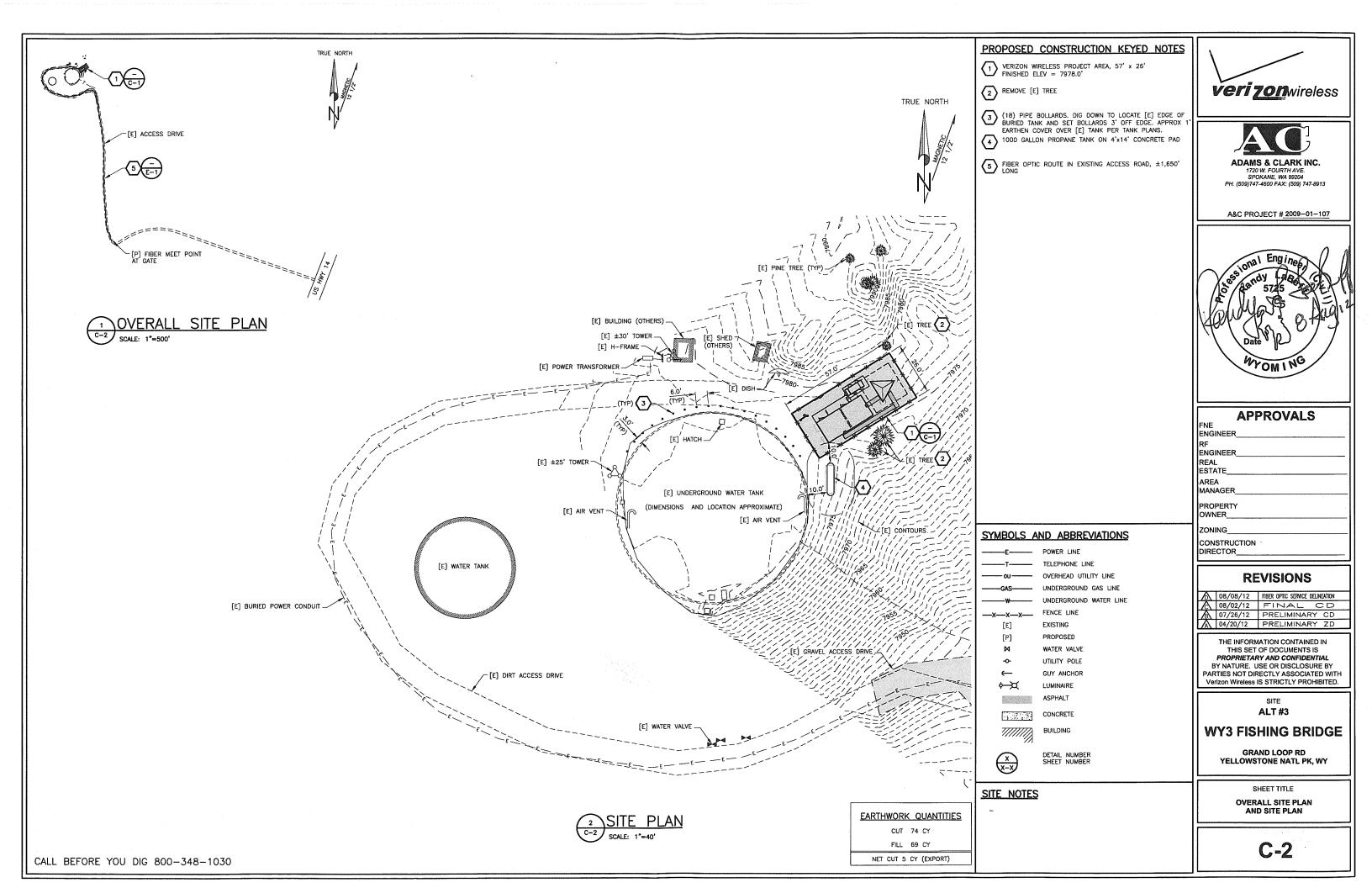
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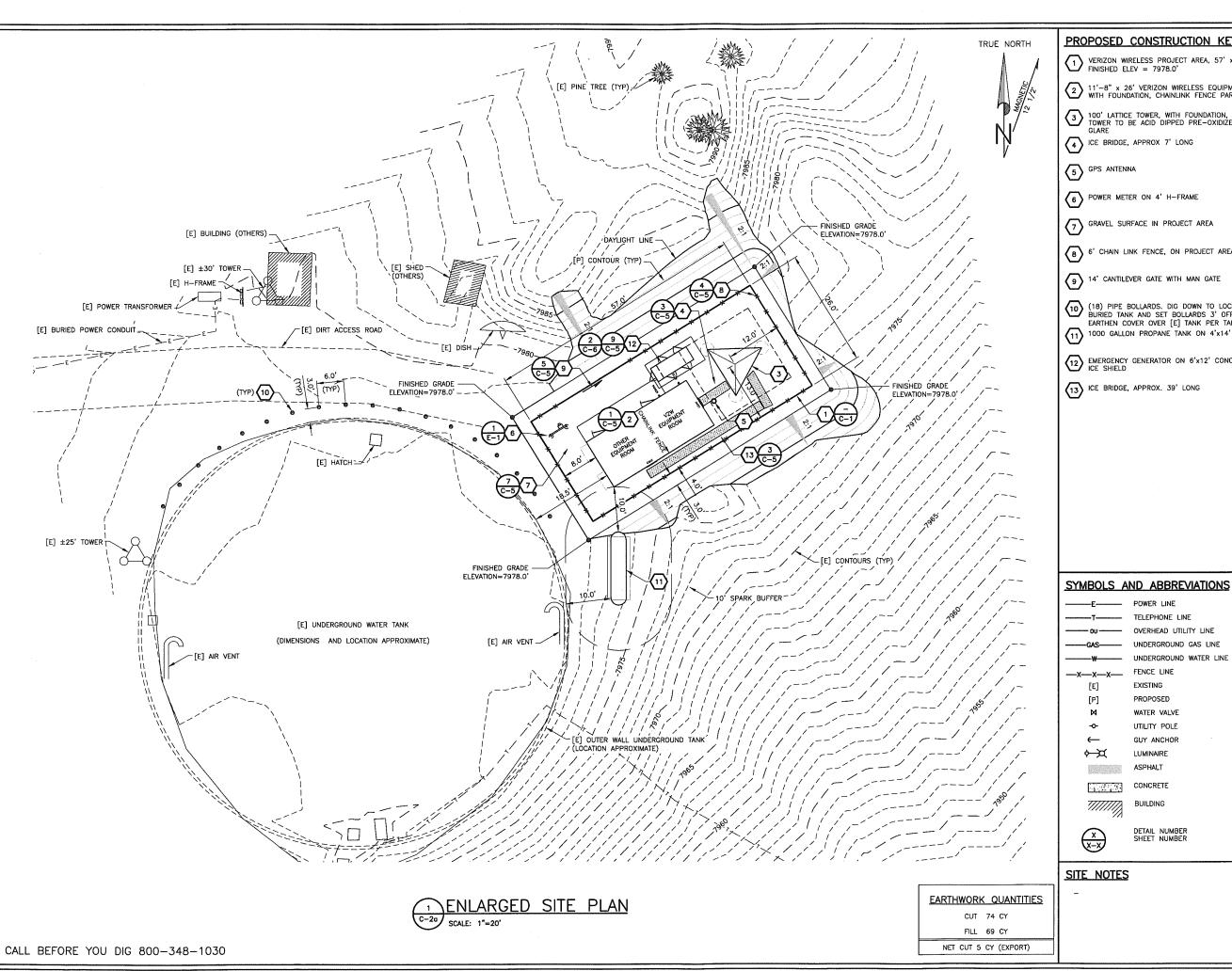
YELLOWSTONE, WYOMING

SITE SURVEY

C-1

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PROPOSED CONSTRUCTION KEYED NOTES

VERIZON WIRELESS PROJECT AREA, 57' x 26' FINISHED ELEV = 7978.0'

2 11'-8" x 26' VERIZON WIRELESS EQUIPMENT BUILDING WITH FOUNDATION, CHAINLINK FENCE PARTITION IN MIDDLE

3 100' LATTICE TOWER, WITH FOUNDATION, GALVANIZED TOWER TO BE ACID DIPPED PRE-OXIDIZED TO ELIMINATE GLARE

4 ICE BRIDGE, APPROX 7' LONG

6 POWER METER ON 4' H-FRAME

7 GRAVEL SURFACE IN PROJECT AREA

(B) 6' CHAIN LINK FENCE, ON PROJECT AREA BOUNDARY

9 14' CANTILEVER GATE WITH MAN GATE

(18) PIPE BOLLARDS. DIG DOWN TO LOCATE [E] EDGE OF BURIED TANK AND SET BOLLARDS 3' OFF EDGE. APPROX 1 EARTHEN COVER OVER [E] TANK PER TANK PLANS.

11) 1000 GALLON PROPANE TANK ON 4'x14' CONCRETE PAD

 $\fbox{12}$ EMERGENCY GENERATOR ON $6^{\prime}x12^{\prime}$ CONCRETE PAD WITH ICE SHIELD

13 ICE BRIDGE, APPROX. 39' LONG

FENCE LINE

EXISTING

PROPOSED

WATER VALVE

UTILITY POLE

GUY ANCHOR

LUMINAIRE ASPHALT

CONCRETE

BUILDING

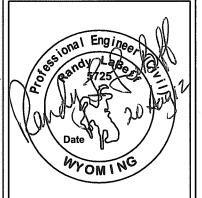
DETAIL NUMBER SHEET NUMBER





ADAMS & CLARK INC. 1720 W. FOURTH AVE. SPOKANE, WA 99204 PH. (509)747-4600 FAX: (509) 747-8913

A&C PROJECT # 2009-01-107



APPROVALS

ENGINEER ENGINEEI ESTATE AREA MANAGER PROPERTY OWNER

ZONING

CONSTRUCTION DIRECTOR

REVISIONS

A 07/28/12 PRELIMINARY CD 104/20/12 PRELIMINARY ZD

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ALT#3

WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

ENLARGED SITE PLAN

C-2a

TBD' AGL OTHER CARRIER ANTENNA &

SOUTH ELEVATION

SCALE: NTS

PROPOSED CONSTRUCTION KEYED NOTES

100' LATTICE TOWER, GALVANIZED TOWER TO BE ACID DIPPED PRE-OXIDIZED TO ELIMINATE GLARE

3 VERIZON WIRELESS ANTENNAS

(2) VERIZON WIRELESS 4' \emptyset MICROWAVE ANTENNAS, HEIGHT AND AZIMUTH TBD

5 ICE BRIDGE, APPROX 7' LONG

7 6' CHAIN LINK FENCE, 1' INSIDE PROJECT BOUNDARY

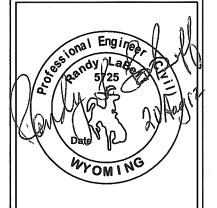
8 OTHER CARRIER'S ANTENNAS, TYPE AND HEIGHT TBD





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	REVISIONS							
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A	8/20/12	ANTENNA HEIGHT						
A	08/13/12	ANTENNA HEIGHTS						
A	08/02/12	FINAL CD						
A	07/26/12	PRELIMINARY ZD						

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SITE ALT #3

WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE **ELEVATION**

C-3

SYMBOLS AND ABBREVIATIONS

OVERHEAD UTILITY LINE UNDERGROUND GAS LINE UNDERGROUND WATER LINE

FENCE LINE EXISTING [E]

PROPOSED [P] WATER VALVE UTILITY POLE

GUY ANCHOR φ—α LUMINAIRE ASPHALT

1 CONCRETE

BUILDING



DETAIL NUMBER SHEET NUMBER

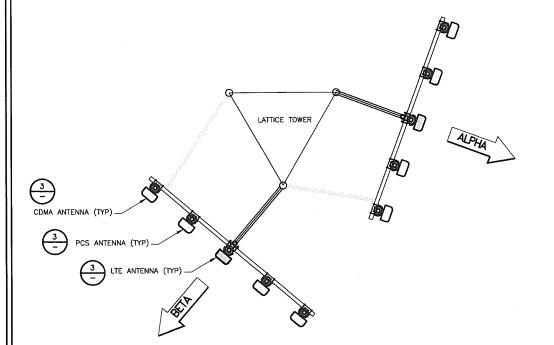
SITE NOTES

CALL BEFORE YOU DIG 800-348-1030

NOTE: CDMA/EVDO ANTENNAS ARE TO BE MOUNTED ON THE OUTERMOST PIPE SUPPORTS OF THE T-FRAME.

THE LTE ANTENNAS SHALL BE MOUNTED ON EITHER OF THE INNER PIPE SUPPORTS OF THE T—FRAME.





ANTENNA PLAN SCALE: NTS

NOTE:

CDMA/EVDO ANTENNAS ARE TO BE MOUNTED ON THE OUTERMOST PIPE SUPPORTS OF THE PLATFORM.

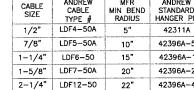
THE LTE ANTENNAS SHALL BE MOUNTED ON THE INNER PIPE SUPPORT OF THE PLATFORM.

			Α	NTENNA	AND	COAXIAL	. CABLE	SCHE	DULE		
AN ⁻	TENNA MARK	QTY	ANTENNA	VENDOR	AZIMUTH TN	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	RAD CENTER	CABLE LENGTH	COAXIAL CABLE	NUMBER OF COAX RUNS
ALPHA	CELLULAR	2	WPA-80063-6CF	ANTEL	110*	2*	ď	94'	110'	7/8*	2
	PCS	2	LPA-185063/12CF	ANTEL	110	o	o o	94'	110'	7/8"	2
	LTE	1	BXA-70063-6CF	ANTEL	110	o	o	94'	110'	7/8*	2
	CELLULAR	2	WPA-80080-6CF	ANTEL	220	ď	o.	94'	110'	7/8*	2
BETA	PCS	2	LPA-185080/12CF	ANTEL	220*	ď	O.	94'	110'	7/8*	2
	LTE	1	BXA-70080-6CF	ANTEL	220*	o	σ	94'	110'	7/8"	2
	CELLULAR	_	_	-	-	_	-	_	-	-	_
GAMMA	PCS	-		-	-	_	_		-		-
6	LTE	_	-	_	-	_	-	_	-	_	
2	TBD	1	TBD	TBD	TBD	TBD	TBD	TBD'	TBD'	TBD"	1
WM	TBD	1	TBD	TBD	TBD	TBD	TBD	TBD'	TBD'	TBD"	1
GPS	RXO	2	GPS-26dB	NORTEL	180°		_	N/A	N/A	1/2"	2

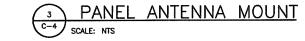
ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS.
REFER TO VERIZON WIRELESS DESIGN BOOK FOR <u>FINAL</u> ANTENNA SPECIFICATIONS, AZIMUTHS, AND MECHANICAL DOWNTILT ANGLES.

, , , , , , , , , , , , , , , , , , , ,	COAXIAL CABLE BEND TABLE							
CABLE SIZE	ANDREW CABLE TYPE #	MFR MIN BEND RADIUS	ANDREW STANDARD HANGER PN	ANDREW CLICK-ON HANGER PN	CABLE TO CABLE SPACING	MAX VRT HANGER SPACING	MAX HOR HANGER SPACING	
1/2"	LDF4-50A	5"	42311A	L4CLICK	1/2"	3'-0"	3'-0"	
7/8"	LDF5-50A	10"	42396A-5	L5CLICK	1/2"	3'-0"	3'-0"	
1-1/4"	LDF6-50	15"	42396A-1	LECLICK	1/2"	3'-0"	3'-0"	
1-5/8"	LDF7-50A	20"	42396A-2	L7CLICK	1/2"	3'-0"	3'-0"	
2-1/4"	LDF12-50	22"	42396A-4	N/A	1/2"	3'-0"	3'-0"	

• FOR TYPICAL CLIMATES W/ 125 MPH WINDS - 1/2" ICE CONDITIONS; SEE MANUFACTURER'S SPECIFICATIONS FOR VARIANCES



DOWNTILT ASSEMBLY WITH STAND-OFF
BRACKET (TO PREVENT CONNECTOR FROM
HITTING PIPE DIRECTLY BEHIND ANTENNA PORT) ANTENNA PIPE LOG-PERIODIC 1/2" COAX JUMPER WPA-80063-6CF 72.6"x11.3"x5.9" 19.5 LBS JUMPERS TO BE SECURED WITH APPROPRIATE METAL FASTENERS AND STANDOFFS WPA-80080-6CF 71.0"x11.2"x5.2" 14.9 LBS. TRANSMISSION-LINES TO BTS

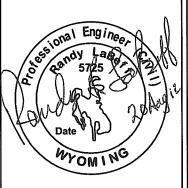






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A&C PROJECT # 2009-01-107



APPROVALS

ENGINEER ENGINEER REAL ESTATE AREA MANAGER PROPERTY OWNER ZONING CONSTRUCTION DIRECTOR_

REVISIONS 08/20/12 08/14/12 ANTENNA HEIGHT 08/02/12 FTNAL CD FINAL CD

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THE INFORMATION CONTAINED IN

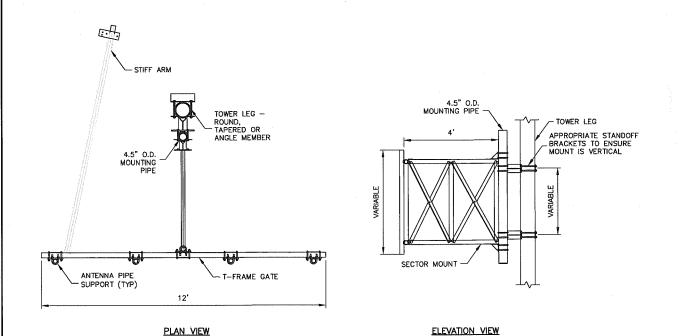
ALT#3

WY3 FISHING BRIDGE

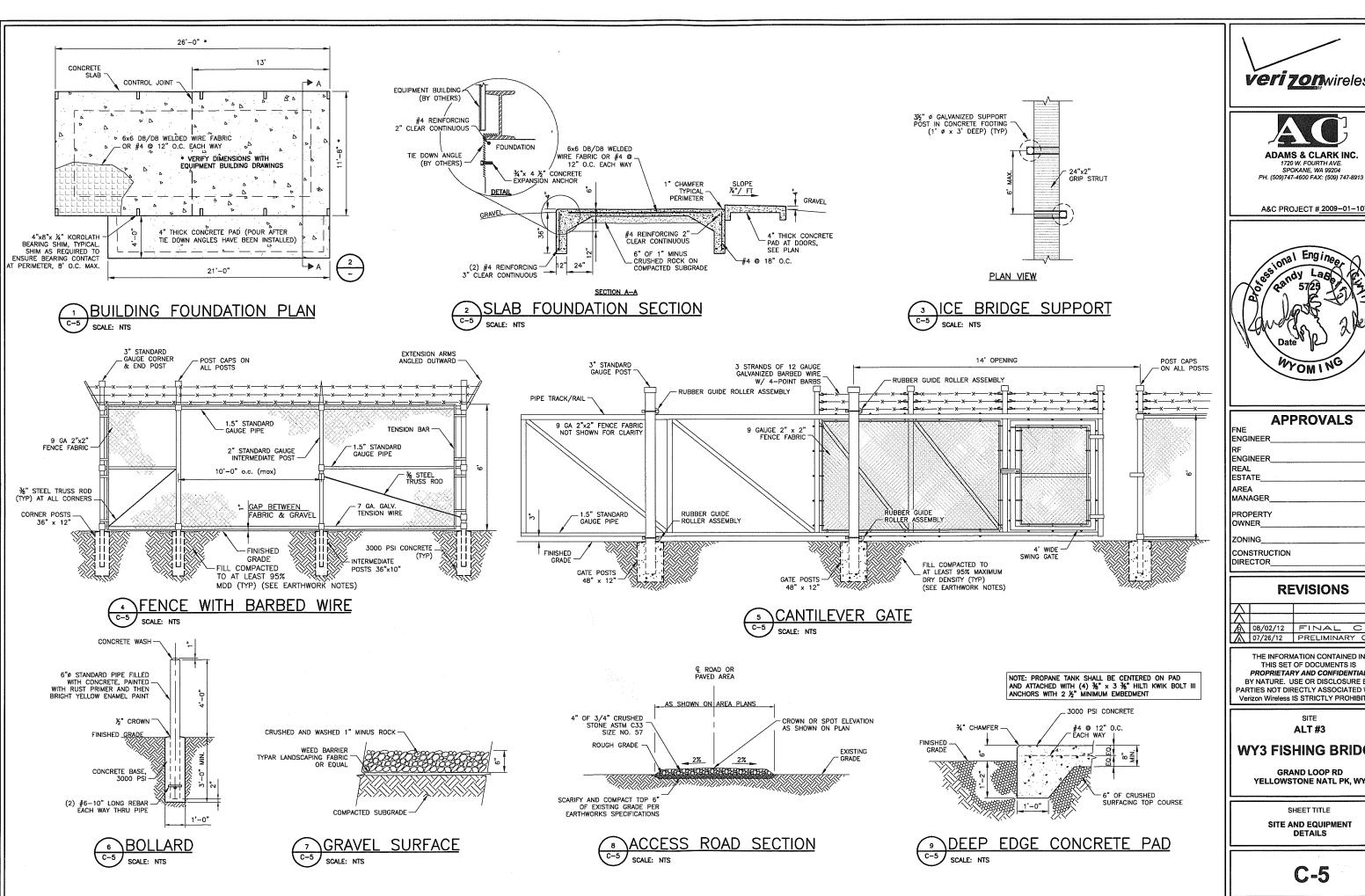
GRAND LOOP RD YELLOWSTONE NATL PK, WY

> SHEET TITLE ANTENNA PLAN AND DETAILS

> > C-4



2 16' ANTENNA T-FRAME MOUNT SCALE: NTS

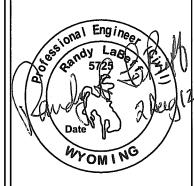




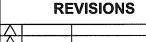


ADAMS & CLARK INC. SPOKANE, WA 99204

A&C PROJECT # 2009-01-107



APPROVALS CONSTRUCTION



↑ 08/02/12 FINAL CD ↑ 07/26/12 PRELIMINARY CD

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> SITE **ALT #3**

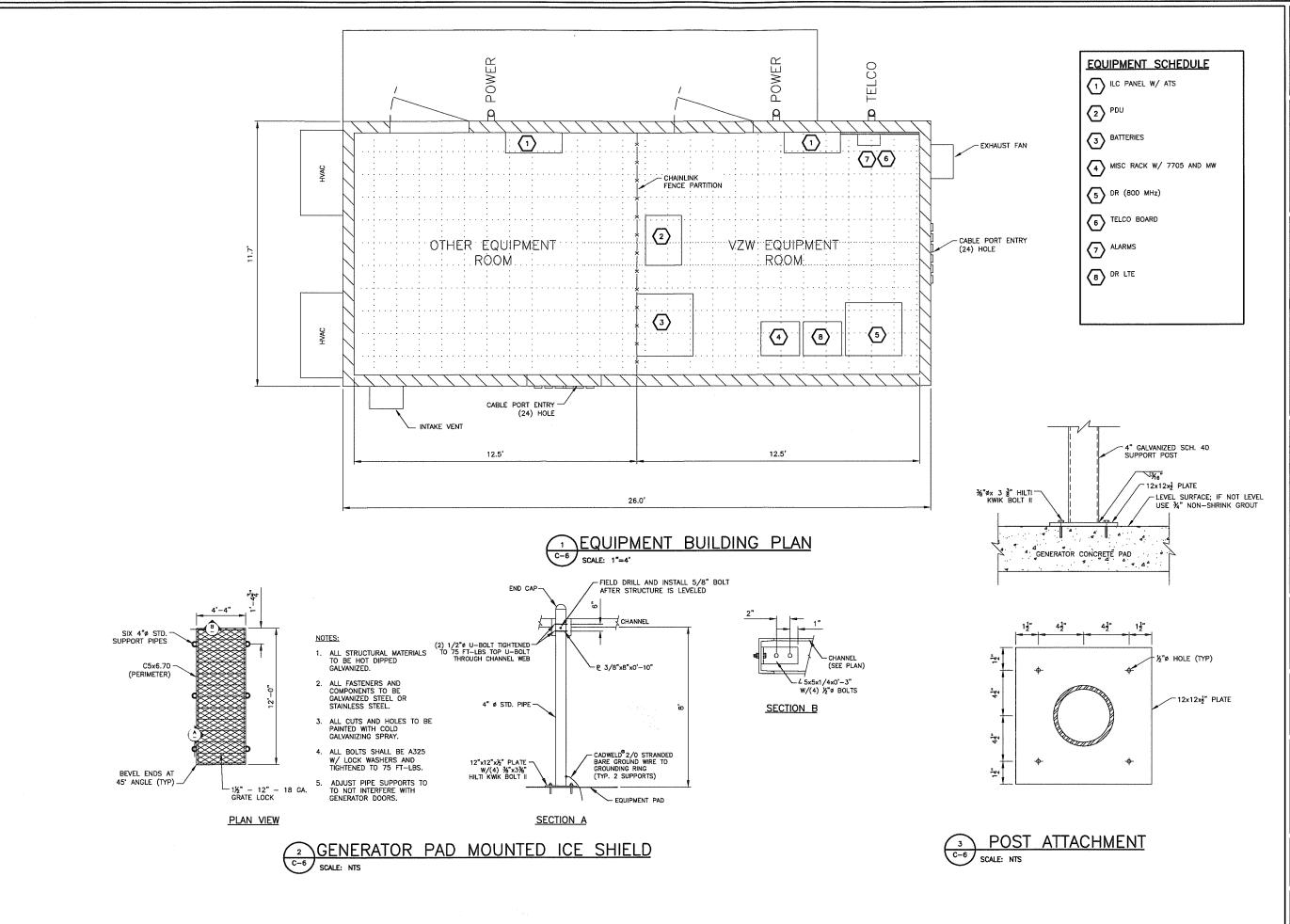
WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE

SITE AND EQUIPMENT DETAILS

C-5

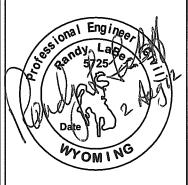






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A&C PROJECT # 2009-01-107



APPROVALS							
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ENGINEER							
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MANAGER							
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CONSTRUCTION							
DIRECTOR							

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ALT#3

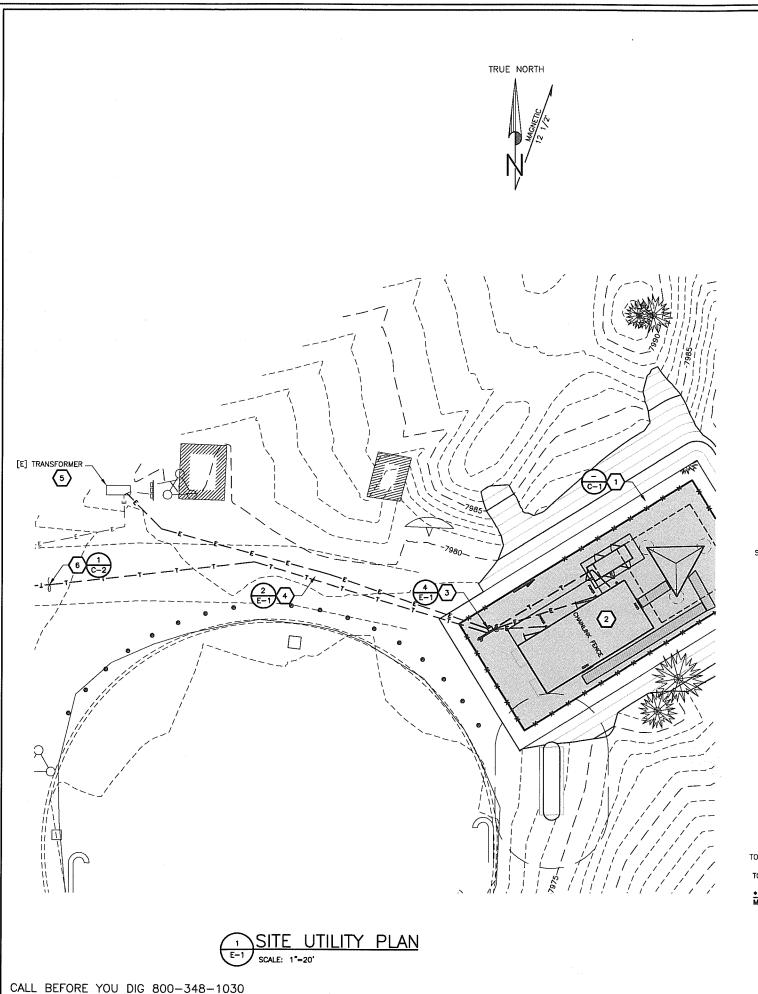
WY3 FISHING BRIDGE

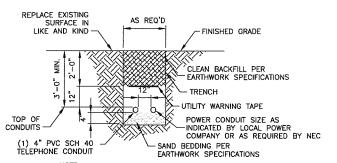
GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE

EQUIPMENT BUILDING PLAN AND GENERATOR ICE SHIELD PLAN

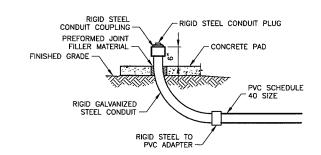
C-6



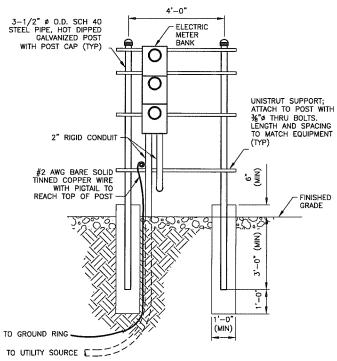


NOTE: CONTRACTOR TO USE MECHANICAL MEANS WHEN EXCAVATING ROCK (BLASTING WILL NOT BE PERMITTED)

ELECTRICAL/TELCO TRENCH SCALE: NTS



CONDUIT STUB-UP



* NOTE: METER BANK IS TO BE SUPPLIED BY NORTHERN TECHNOLOGIES OR APPROVED EQUAL.



PROPOSED CONSTRUCTION KEYED NOTES

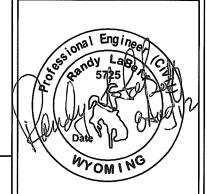
- 1 VERIZON WIRELESS PROJECT AREA
- 2 EQUIPMENT BUILDING
- 3 H-FRAME
- 5 EXACT CONNECTION TO [E] POWER AND [E] TELCO TO BE DETERMINED IN FIELD
- 6 FIBER OPTIC CONNECTION TO BE AT ACCESS GATE ABOUT 1,650' AWAY

veri zonwireless



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APPROVALS FNE ENGINEER RF ENGINEER REAL ESTATE AREA MANAGER PROPERTY OWNER ZONING CONSTRUCTION

REVISIONS

DIRECTOR_

08/08/12 FIBER OPTIC DELINEATION 08/02/12 FINAL CD	Δ	l	
123 1 1 1	Æ	08/08/12	FIBER OPTIC DELINEATION
A 107/09/10 DDEL 11 11 11 19/1 00	B	08/02/12	FINAL CD
A 07/26/12 PRELIMINARY CD	\mathbb{A}	07/26/12	PRELIMINARY CD

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ALT #3

WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE

SITE UTILITY PLAN AND DETAILS

E-1

POWER/TELCO SPECIFICATIONS

SYMBOLS AND ABBREVIATIONS

POWER LINE

FENCE LINE

WATER VALVE

UTILITY POLE

GUY ANCHOR

ASPHALT

CONCRETE

BUILDING

EXISTING

—X—X—X—

[E]

[P]

V.I.F.

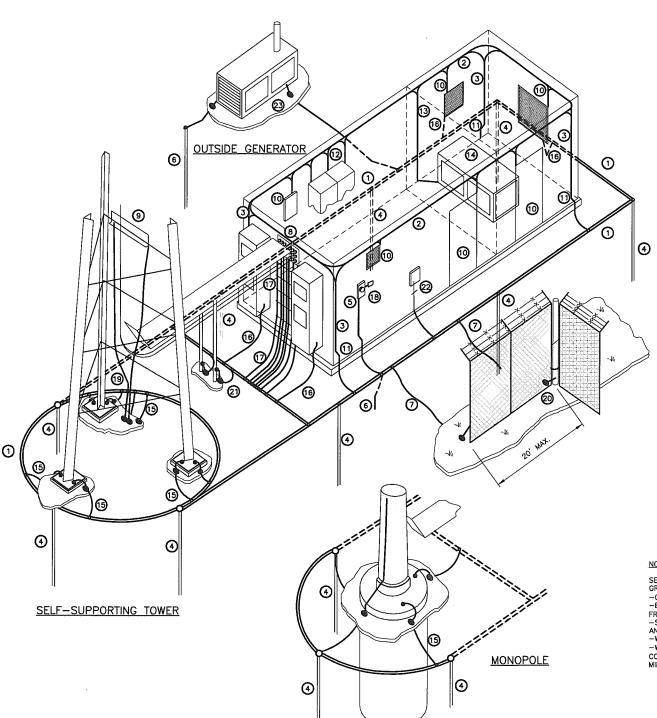
3.5

TELEPHONE LINE
OVERHEAD UTILITY LINE

UNDERGROUND GAS LINE

UNDERGROUND WATER LINE

- . 120/240 VAC SINGLE PHASE 200 AMP FEED TO THE POWER DISTRIBUTION PANEL, METERED SERVICE TO THE 120/240 VAC SINGLE PHASE, 60 AMP SUB PANEL TO POWER THE HAZARD LIGHTING (WHEN REQUIRED) CONTROLLER AND ALARM CONTROL PANEL, AND TELCO "POTS" LINE TO THE ALARM CONTROL PANEL.
- 2. ALL CONDUITS SHALL BE SCHEDULE 40 PVC: OR AS SPECIFIED ON DESIGN DRAWINGS. ALL JOINTS SHALL BE MADE WATERTIGHT USING SOLVENT CEMENT SPECIFICALLY DESIGNED FOR USE WITH PVC CONDUIT.
- 3. ALL EXPOSED MATERIALS ARE TO BE HOT DIPPED GALVANIZED OR HAVE FINISH APPROVED FOR OUTDOOR USE.
- 4. POSTS SUPPORTING POWER DISTRIBUTION SYSTEM ARE TO BE CAPPED WITH METAL CAPS.
- 5. ALL OTHER MATERIALS SHALL BE SPECIFIED ON THE CONSTRUCTION DRAWINGS OR IN THE NATIONAL ELECTRIC CODE (NEC).
- ALL BURIED ELECTRICAL CONDUITS SHALL BE A MINIMUM OF 3' BELOW FINISHED GRADE. TRENCHES TO CONTAIN WARNING TAPE "BURIED ELECTRIC CABLES" 12" ABOVE TOP OF CONDUIT.
- ALL BURIED TELCO CONDUITS SHALL BE A MINIMUM OF 2' BELOW FINISHED GRADE.



LEGEND

- 1 BURIED EXTERIOR ELECTRODE GROUND RING
- 2 INTERIOR RING GROUND (HALO)
- 3 INTERIOR RING GROUND DOWN LEAD
- ◆ GROUND ROD ELECTRODE, §"x 8' LONG
- 5 POWER CO. GROUND ELECTRODE (MGN)
- 6 OPTIONAL GROUND ROD
- BOND TO FENCE WITHIN 6 FT.
- 8 WAVEGUIDE
- 9 TOWER GROUND BAR
- WALL MOUNTED CABINETS, CONDUITS, DOOR FRAME & VENTS
- 1 DOWN LEAD #2 STRANDED TO #2 SOLID CONNECT EXOTHERMIC OR COMPRESSION
- 12 EQUIPMENT BOND
- 13 BUILDING STEEL BOND
- (4) GENERATOR FRAME
- 15 TOWER BASE SHOE BOND 16 BOND TO METALLIC OBJECTS OR BUILDING EXTERIOR
- 17 WAVEGUIDE HATCH PRIMARY BOND
- 18 TRANSIENT VOLTAGE SURGE SUPRESSOR
- 19 TOWER LIGHTING CONTROLLER TVSS
- 20 GATE POST TO GATE JUMPER
- 2) ICE BRIDGE & SUPPORT GROUND
- 2 TELCO ENTRANCE GROUND AND GROUND BAR
- 23 GENERATOR FRAME OR GROUND ROD (NOT BOTH)

SELF SUPPORTING TOWERS AND MONOPOLES SHALL HAVE A GROUND RING AROUND THE BASE AS FOLLOWS:

-COMPOSED OF #2 AWG SBTC WIRE
-BURIED AT LEAST 30 INCHES BELOW GRADE LEVEL OR BELOW FROST LINE (WHICHEVER IS DEEPER).

-SPACED AT LEAST 24 INCHES FROM BUILDING FOUNDATIONS AND TOWER FOOTINGS -SPACED AT LEAST 24 INCHES FROM BUILDING FOUNDATIONS AND TOWER FOOTINGS.
-WITH A BEND RADIUS OF AT LEAST 24 INCHES
-WITH A MINIMUM OF NINE (9) GROUND RODS (ONE AT EACH CORNER OF THE RING AND ONE IN THE MIDDLE) SPACED A MINIMUM OF 10 FEET APART.

TYPICAL CELL SITE GROUNDING

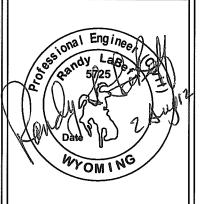
SCALE: NTS





SPOKANE, WA 99204 PH. (509)747-4600 FAX: (509) 747-8913

A&C PROJECT # 2009-01-107



I	APPROVALS
I	FNE ENGINEER
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ı	MANAGER
	PROPERTY OWNER
	ZONING
İ	CONSTRUCTION

REVISIONS			
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B\	08/02/12	FINAL CD	
Δ	07/26/12	PRELIMINARY CD	

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ALT#3

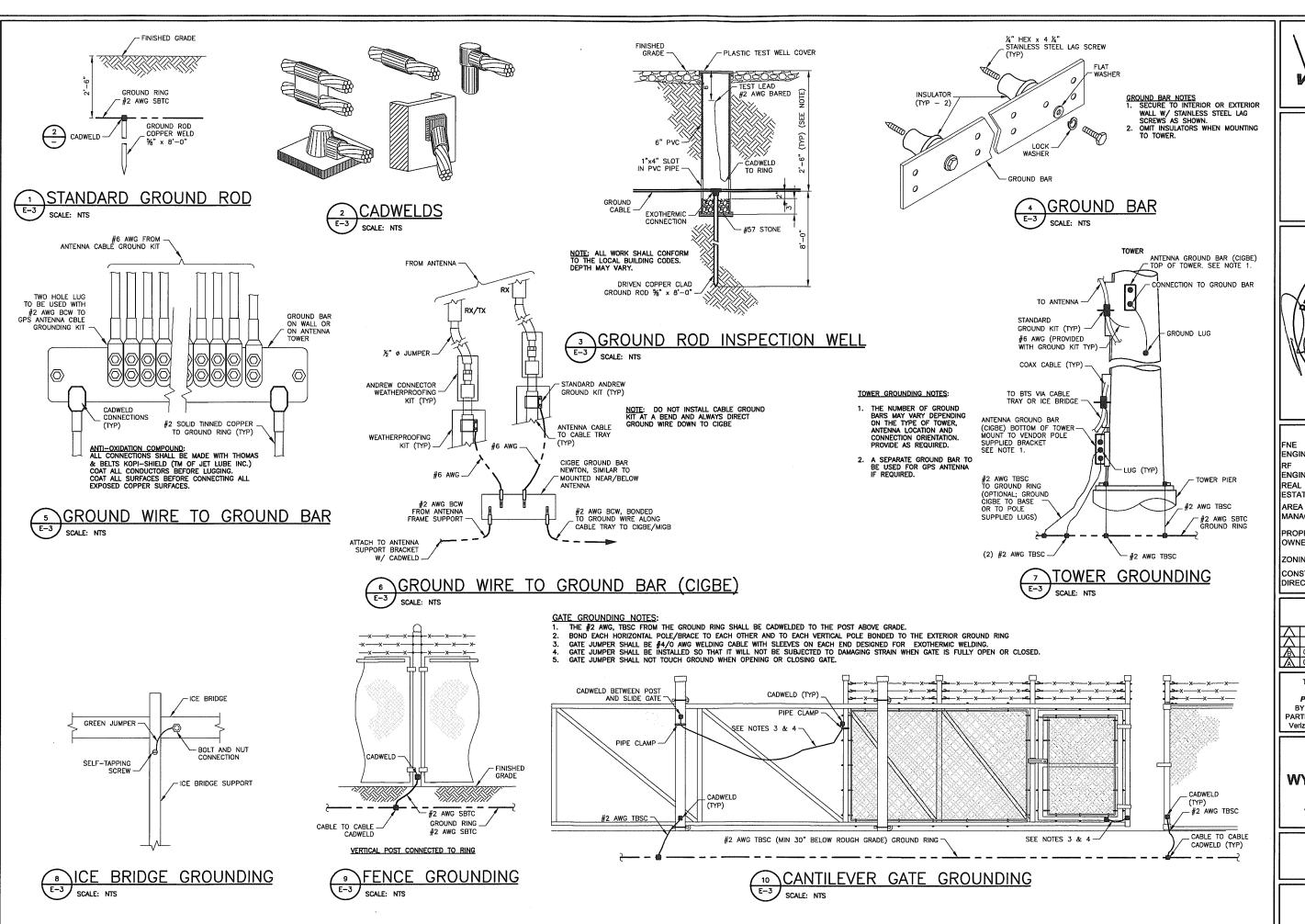
WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE

SITE GROUNDING PLAN AND DETAILS

E-2

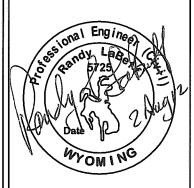






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SITE ALT #3

WY3 FISHING BRIDGE

GRAND LOOP RD YELLOWSTONE NATL PK, WY

SHEET TITLE

GROUNDING DETAILS

E-3