

EASTERN SHORE

SITE ADDRESS:

26129 SHOREMAN DRIVE BLOXOM, VIRGINIA

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 CONSTRUIED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 1. 2009 VIRGINIA UNIFORM STATEWIDE BUILDING CODE.
- 2. 2009 INTERNATIONAL BUILDING CODE
- 3. 2009 INTERNATIONAL MECHANICAL CODE.
- 3. ANSI/EIA-222-G LIFE SAFETY CODE. 4. 2009INTERNATIONAL RESIDENTIAL CODE.
- 5 CITY AND/OR COUNTY ORDINANCES 6. 2009 INTERNATIONAL PLUMBING CODE.
- 7. NFPA 70 2008.
- 8. 2009 INTERNATIONAL FUEL GAS CODE.
- 9. LOCAL BUILDING CODE(S).

PROJECT DIRECTORY

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

NICHOLAS PASCARETTI, PROJECT MANAGER

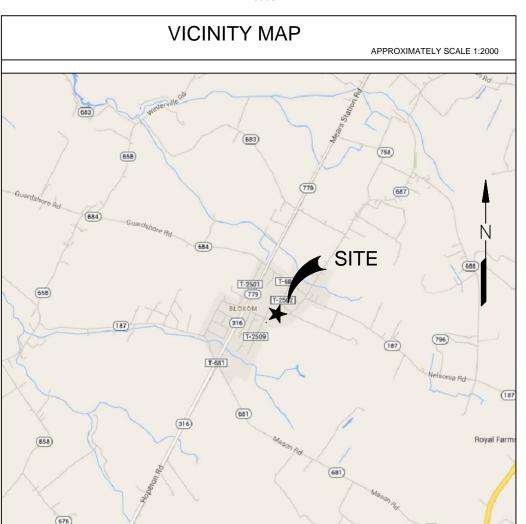
(914) 388-1448

ENGINEER: A Z ENGINEERING

441 PALLETS ROAD VIRGINIA BEACH, VIRGINIA 23454

ARIAN ZOTO, PE

(757) 672-2339



SITE INFORMATION

SITE NAME: EASTERN SHORE

SITE ADDRESS: 26129 SHOREMAN DRIVE

BLOXOM, VIRGINIA 23308

EASTERN SHORE BROADBAND AUTHORITY SITE OWNER:

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

GEOGRAPHIC (2C) COORDINATES:

N 37° 49' 46.03" (NAD 83) LATITUDE: W 075° 37' 14.57" (NAD 83) LONGITUDE 23.6' AMSL (NAD 83) GROUND ELEVATION:

TOWER TYPE: MONOPOLE

100' AGL (123.6' AMSL) TOWER HEIGHT: OVERALL HEIGHT: 105' AGL (128.6' AMSL)

LAND OWNER: TOWN OF BLOXOM TAX PARCEL #: 69A-A-159 DEED BOOK/PAGE: 448/164 & 357/415

PARCEL AREA: 0.854 ACRES JURIDISTINCTION: ACCOMACK COUNTY

FLOOD ZONE DETERMINATION:

(BASED ON FLOOD INSURANCE RATE MAPS PROVIDED BY FEMA)

FIRM MAP#: 51001C0475F EFFECTIVE DATE: MARCH 16, 2009

FIRM ZONE:

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE INSTALLATION OF NEW EASTERN SHORE BROADBAND AUTHORITY TOWER, EQUIPMENT CABINET, ANTENNAS ON NEW TOWER, AND ALL ASSOCIATED INSTALLATIONS.

SHEET INDEX

- TITLE SHEET
- GENERAL NOTES, LEGEND & ABBREVIATIONS
- SITE PLAN
- SITE LAYOUT
- **GRADING & EROSION CONTROL**
- TOWER ELEVATION & DETAILS COMPOUND FENCE DETAILS
- STRUCTURAL NOTES
- STRUCTURAL PLAN & DETAILS ELECTRICAL PLAN, NOTES & DETAILS
- COMPOUND GROUND PLAN
- GROUNDING, PANEL SCHEDULE, ONE-LINE DIAGRAM

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

SITE INFO .:

EASTERN SHORE

26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA

DESIGN:		ARIAN Z	OTO P.E.	
PROJECT NUMBER: 14-301		301		
	SUBMITTALS			
9	FINAL CONSTRUCTION	N DWGS.	09/20/2014	
SH	SHEET NAME:			

SHEET NO.:

T-1

GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING IN WRITING THE VERIZON WIRELESS REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OF PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OF EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE IN WRITING.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO BECOME FAMILIAR WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS. METHODS. TECHNIQUES. SEQUENCES AND PROCEDURES AND FOR COORDINATION ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
- 11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVEMENTS, CURBING, ETC., DURING CONSTRUCTION UPON COMPLETION OF WORK THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 12. THE CONTRACTOR SHALL MAINTAIN THE GENERAL WORK AREA AS CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE
- 13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 14. THE CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY THE VERIZON WIRELESS REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES ETC. ON THE JOB

ABBREVIATIONS & SYMBOLS LIST

ADDIL	VIATIONS & STIVIDOLS LIS	<u> </u>
1P, 2P, & 3P	SINGLE POLE, TWO POLE, & THREE POLES	— NEUT
A/C	AIR CONDITIONING	N
ADJ	ADJUSTABLE	NA
AFF	ABOVE FINISH FLOOR	NIC
AGL	ABOVE GROUND LEVEL	NTS
APPROX	APPROXIMATELY	OFCI
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OC
AWG	AMERICAN WIRE GAUGE	OD
A OR AMP	AMPERE	OPNG
BLDG	BUILDING	OPP
BLK BMR	BLOCK BASE MOBILE RADIO	OHT/OHP
B/S	BUILDING STANDARD	OHP OHT
CU	COPPER	OZ
CO	CLEAN OUT	PG
C	CONDUIT SIZE AS NOTED	PIN(F)
CB	CIRCUIT BREAKER	PIN(S)
CKT	CIRCUIT	PJF
CLG	CEILING	PLYWD
CLR	CLEAR	PR
CONC	CONCRETE	PROJ
CONST	CONSTRUCTION	PROP
CONT CFCI	CONTINUOUS CONTRACTOR FURNISHED CONTRACTOR INSTALLED	PSI PSF
DB	DEED BOOK	PT
DBL	DOUBLE	PVC
DIA, Ø	DIAMETER	RAD
DIAG	DIAGONAL	RECEPT
DIM	DIMENSION	REQ'D
DN	DOWN	RM
DET, DETL	DETAIL	RO
DWG	DRAWING	S
DEF	DUAL ELEMENT FUSES	SW
E	EAST	SCH
EA EL, ELEV	EACH ELEVATION	SHT SIM
ELECT	ELECTRICAL	SPEC
EQ	EQUAL	SQ
EQUIP	EQUIPMENT	SS
EW	EACH WAY	STL
EXIST/EX	EXISTING	STRUCT
EXT	EXTERIOR	SUSP
EMT	ELECTRICAL METALLIC TUBING	THRD
EC	EMPTY CONDUIT	THRU
FIN	FINISH FLUORESCENT	TM TNND
FLUOR FLR	FLOOR	TOC
FT	FOOT	TYP
GRS	GALVANIZED STEEL CONDUIT	UON
G OR GRD	GROUND	UG
GA	GAUGE	VERT
GALV	GALVANIZE(D)	VIF
GC	GENERAL CONTRACTOR	VT
GPS CW/P	GLOBAL POSITIONING SYSTEM	W/
GWB HARD'WD	GYPSUM WALL BOARD	WDW W
HEC	HARDWOOD HIGH STRENGTH	W/O
HORIZ	HORIZONTAL	W
HR	HOUR	WP
HT	HEIGHT	XFRM
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	
ID	INSIDE DIA.	4
IN	INCH	4
INFO	INFORMATION	&
INS KW	INSULATION KILOWATTS	u.
KW LB(S)	KILOWATTS POUND(S)	Q.
LG(S)	LONG	
MAX	MAXIMUM	P <u>L</u>
MECH	MECHANICAL	_
MTL	METAL	@
MFR	MANUFACTURER	
MGR	MANAGER	#
MIN	MINIMIM	

MIN MISC

MINIMUM MISCELLANEOUS

MOUNTED

L	EGEND		
NEUTRAL NORTH	EXISTING	NEW	
NOT APPLICABLE NOT IN CONTRACT		Received .	
NOT TO SCALE OWNER FURNISHED, CONTRACTOR INSTALLED ON CENTER	CONC.		CONCRETE
OUTSIDE DIAMETER OPENING			PROPERTY LINE
OPPOSITE OVERHEAD TELEPHONE/OVERHEAD POWER OVERHEAD POWER			SETBACK LINE
OVERHEAD TELEPHONE OUNCE		<u> </u>	LEASE AREA
PAGE PIN FOUND PIN SET			EASEMENT
POLYVINYL JOINT FILLER PLYWOOD			BUILDING (FOOTPRINT)
PAIR PROJECT PROPERTY	Ø P/P	<u> </u>	POWER POLE
PER SQUARE INCH PER SQUARE FOOT			LIGHT POLE
PRESSURE TREATED SCHEDULE 40 PLASTIC CONDUIT.	☆ <i>\/P</i>		
RADIATION RECEPTACLE REQUIRED	TELE		TELEPHONE PEDESTAL
ROOM ROUGH OPENING	EOE		OVERHEAD ELECTRIC
SOUTH SWITCH SCHEDULE	202		
SHEET SIMILAR	(*)		CONTOURS
SPECIFICATION SQUARE STAINLESS STEEL		14.5	
STEEL STRUCTURAL		14.5	SPOT ELEVATION
SUSPENDED THREADED THROUGH			ASPHALT
TAX MAP TINNED		-x x x	FENCE
TOP OF CONCRETE TYPICAL LINE ESS OTHERWISE NOTED			CENTER OF DITCH
UNLESS OTHERWISE NOTED UNDERGROUND VERTICAL			
VERIFY IN FIELD VINYL TILE	1 1 1 1		TOP OF DITCH/SWALE SLOPE
WITH WINDOW WEST	++++		RAILROAD TRACKS
WITHOUT WATTS	lacksquare		TEMPORARY BENCHMARK
WEATHERPROOF TRANSFORMER		A5A5A5	GRAVEL
ANGLE		FOTOTO	OKAVEE
AND	munu		TREELINE
CENTER LINE		#1Wq.	TREE
PROPERTY LINE, PLATE AT		2.8 to €	
NUMBER		0	SHRUB
		SF	SILT FENCE
		✓SF—SF—	
		Ż	NORTH ARROW
		$\begin{pmatrix} 1 \\ C-1 \end{pmatrix}$	= ELEVATION REFERENCE
			= SECTION
		C-1	REFERENCE
		1	= DETAIL

C-1

REFERENCE

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

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DESIGN:	ARIAN Z	OTO P.E.	
PROJECT NUMBER: 14-301		301	
SUBMIT	TALS		
♠ FINAL CONSTRUCTI	ON DWGS.	09/20/2014	
SHEET NAME:			
CENTED AT MOREO			

GENERAL NOTES LEGEND & **ABBREVIATIONS**

SHEET NO.:

SITE PLAN NOTES

TOPOGRAPHIC INFORMATION WAS TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY

THIS SITE PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH/REPORT AND MAY NOT SHOW ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD THAT MAY EFFECT THE SUBJECT

PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.

THIS SITE APPEARS TO BE LOCATED IN THE F.I.R.M. ZONE "X" AS SHOWN ON FEMA COMMUNITY PANEL NUMBER 51001C0475F EFFECTIVE DATE MARCH 16, 2009.

NO SUBSURFACE INVESTIGATION WAS PERFORMED BY A Z ENGINEERING.

THERE ARE NO JURISDICTIONAL WETLANDS ON THE SUBJECT PARCEL. NO WETLAND AREAS HAVE

ALL PHYSICAL EVIDENCE OF UTILITIES SHOWN ON THIS SITE PLAN ARE FROM SURFACE EVIDENCE.

DANIEL B. & LISA M. RUGGIERO TAX PARCEL #69A-A-156 SHIRLEY H. RONALD E. WILLIAMS INSTRUMENT #200404723 TAX PARCEL #69A-A155 5.0' DB 646, PG 1 60.0' CENTERLINE OF DITCH S 66° 02' 35" E 138.63' WOODED AREA LIMITS OF WOOD CLEARING PROPERTY LINE AS SHOWN IN PLAT BOOK 8, PAGE 85 TOWN OF BLOXOM TAX PARCEL #69A-A-159 TOWN OF E TAX PARCEL # DB 448, P DB 249, P DB 448, PG 164 DB 357, PG 415 AREA = 37.198 SF (0.854 AC) EXISTING ONE-STORY BUILDING #26129 DANIEL B. & LISA M. RUGGIERO TAX PARCEL #69A-A-157 INSTRUMENT #200404723 S 64° 56' 36" E 40.01' = BLOXOM L #69A-A-16 , PG 164 , PG 291 38.3' EXIST. ONE-STORY BUILDING GRAVEL - EXIST LIGHT POLE UTILITY POLE SHOREMAIN DRIVE - STATE ROUTE 187 30' RIGHT-OF WAY SITE PLAN SCALE: 1:40

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SITE PLAN

SHEET NO.:

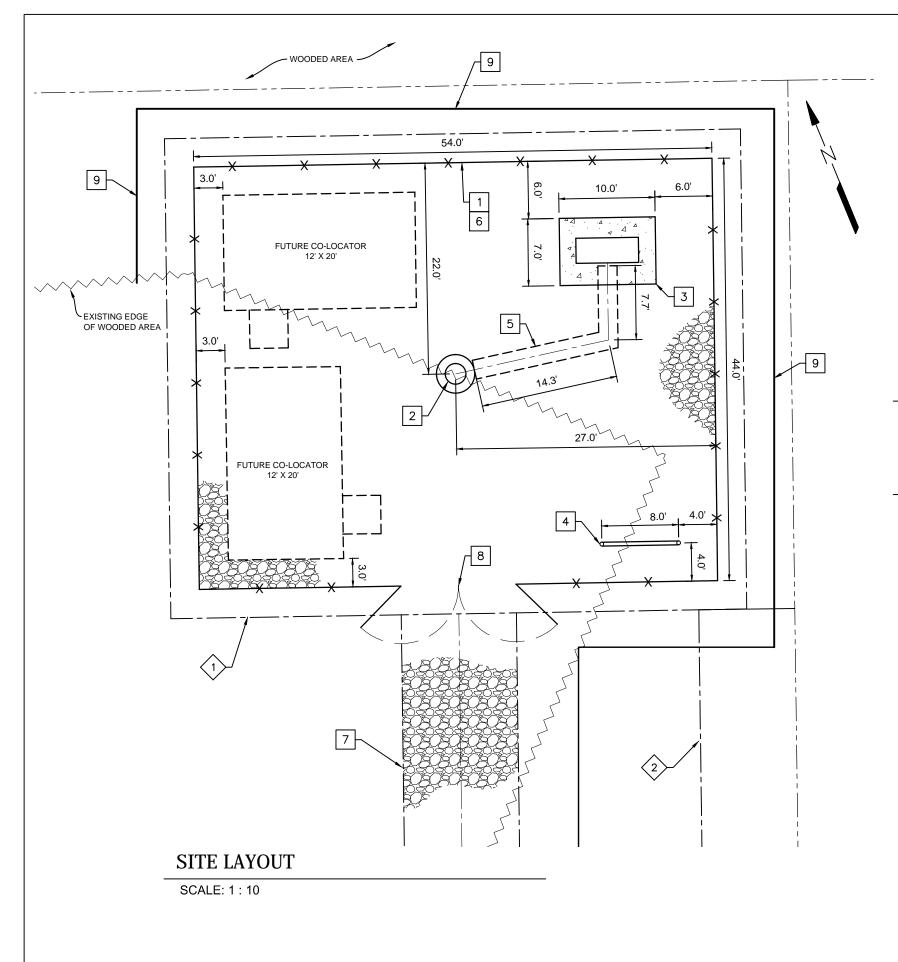
C-2

SITE PLAN NOTES

PROPOSED 50.0' X 60.0' LEASE AREA. SEE C-3 FOR SITE LAYOUT.

PROPOSED 10.0' WIDE UTILITY EASEMENT.

PROPOSED 12.0' WIDE GRAVEL ACCESS ROAD.



SITE NOTES

- 1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA OF CONSTRUCTION THAT ARE NOT SHOWN ON THESE PLANS. BEFORE YOU DIG, CALL "MISS UTILITY" AT 8-1-1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AT THE FIRST PHASE OF CONSTRUCTION AND CHECKED PERIODICALLY TO ENSURE THEY ARE FUNCTIONING AS INDICATED.
- 3. THE STOCKPILING OF EXCESS MATERIAL ON SITE WILL NOT BE ALLOWED.
- 4. ANY VEGETATED AREA DISTURBED BY CONSTRUCTION SHALL BE TOPSOILED AND SEEDED TO RESTORE A PERMANENT VEGETATIVE COVER.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA REQUIREMENTS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR SITE LAYOUT AND CONSTRUCTION STAKING. LOCATION OF EXISTING STRUCTURES AND UTILITIES MUST BE CONFIRMED BY THE CONTRACTOR.
- 7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OF ORDINANCES
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, DRIVEWAYS, WALKS, CURBS, ETC. THAT MAY BE CUT, OR THAT ARE DAMAGED DURING CONSTRUCTION.

SITE PLAN NOTES

 \bigcirc 1

PROPOSED 50.0' X 60.0' LEASE AREA.

 $\langle 2 \rangle$

9

PROPOSED 10.0' WIDE UTILITY EASEMENT.

CONSTRUCTION NOTES

- 1 PROPOSED 44.0' X 54.0' FENCED AND GRAVELED COMPOUND AREA.
- PROPOSED 100' MONOPOLE TOWER WITH 4' LIGHTING ROD; 105' TOTAL. DESIGNED BY OTHERS.
- PROPOSED 7.0' X 10' EQUIPMENT CONCRETE PAD. SEE S-2 FOR DETAILS.
- 4 PROPOSED 8' WIDE UTILITY STAND.
- 5 PROPOSED ICE-BRIDGE. SEE E-4 FOR DETAILS.
- 6 PROPOSED METALLIC FENCE. SEE C-6 FOR DETAILS.
- 7 PROPOSED 12' GRAVEL ACCESS ROAD.
- 8 PROPOSED 12' ENTRANCE GATE.
 - PROPOSED LIMITS OF WOODED AREA CLEARING.

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

A PROFESSIONAL COMPANY

441 PALLETS ROAD VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

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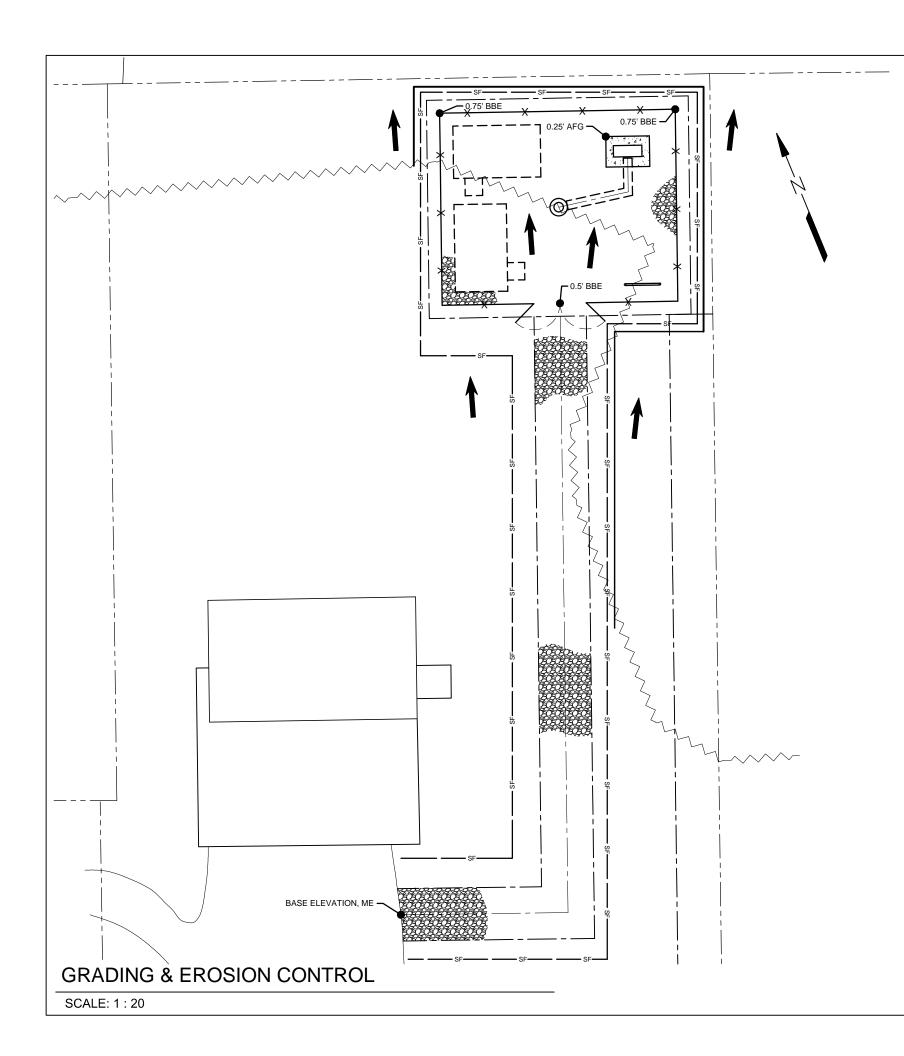
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SITE LAYOUT

SHEET NO.:



EROSION AND SEDIMENT CONTROL NOTES

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS (4VAC5O-30).

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE NAME OF THE RESPONSIBLE LAND DISTURBER MUST BE PROVIDED TO THE PLAN-APPROVING AUTHORITY PRIOR TO ACTUAL ENGAGEMENT IN LAND-DISTURBING ACTIVITY SHOWN ON THE APPROVED SITE PLAN. IF THE NAME IS NOT PROVIDED PRIOR TO ENGAGING IN THE LAND-DISTURBING ACTIVITY THE PLAN'S APPROVAL WILL

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN-APPROVING AUTHORITY

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. AFTER WHICH, UPON APPROVAL OF THE PLAN-APPROVING AUTHORITY THE CONTROLS SHALL BE REMOVED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

ES-8: DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST EVERY 2 WEEKS AND IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

ES-10: THE CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE.

ES-11: SEEDING OPERATIONS SHALL BE INITIATED WITHIN 7 DAYS AFTER REACHING FINAL GRADE OR UPON SUSPENSION OF GRADING OPERATIONS FOR ANTICIPATED DURATION OF GREATER THAN 30 DAYS OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIC AREA.

ES-12: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS.

EROSION CONTROL NARRATIVE

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF CONCRETE FOUNDATION FOR NEW EQUIPMENT SHELTER, AND POWER GENERATOR; INSTALLATION OF EQUIPMENT SHELTER, POWER GENERATOR, CABLE'S ICE-BRIDGE AND ASSOCIATED ANTENNAS ON EXISTING TOWER. AN EXISTING ENTRANCE ONTO SHOREMAIN DRIVE WILL BE LITH IZED TO ACCESS THIS SITE. EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS

THE COMPOUND IS GRATED AT SLOPE 2-3%, AND STABILIZED WITH 6 INCHES OF GRAVEL PLACED ON A WEED INHIBITING GEOTEXTILE.

THERE ARE NO AREAS THAT HAVE THE POTENTIAL FOR SERIOUS EROSION PROBLEMS

EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR SITE CLEARING AND GRADING ACTIVITIES. ALL UNGRAVELED AREAS ARE TO BE SEEDED ACCORDING TO STATE REGULATIONS WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING OPERATIONS ARE COMPLETED. PERIMETER SILT FENCE WILL SERVE AS THE PRIMARY EROSION AND SEDIMENT CONTROL DEVICES DURING THE ENTIRE CONSTRUCTION PROCESS.

LEGEND

SILT FENCE

BBE BELLOW BASE ELEVATION

AFG

ABOVE EXISTING FINISHED GRADE

MATCH EXISTING ELEVATION OF THE EXISTING PAD

DIRECTION OF RUNNING WATERS

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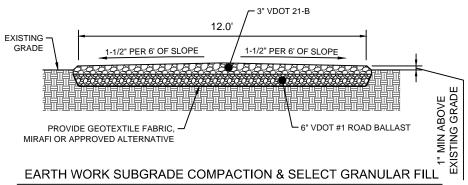
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GRADING & EROSION **CONTROL**

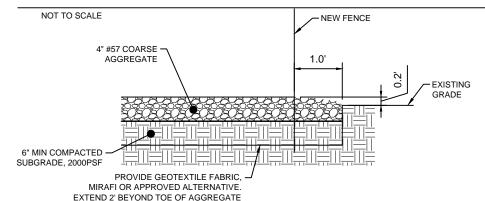
SHEET NO.:



- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING THE CONSTRUCTION SITE AND ROADWAY AREAS. THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT WHEN NECESSARY PREPARED FOR THIS SITE FOR SITE WORK PREPARATION & FOUNDATION WORK. AS A MINIMUM THE TOP 3" OF GRADE SHALL BE REMOVED. THE EXPOSED SUBGRAGE COMPACTED TO 2000 PSF, AND GEOTEXTILE FABRIC BE USED AS NOTED ON DRAWINGS.
- ALL SELECT GRANULAR FILL SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINIS 3% OF OPTIMUM MOIST LIBE CONTENT

TYPICAL ACCESS ROAD CROSS SECTION

SLOPE, ALL AROUND



EARTH WORK SUBGRADE COMPACTION & SELECT GRANULAR FILL

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING & GRUBBING THE CONSTRUCTION SITE AND ROADWAY AREAS. THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT WHEN NECESSARY PREPARED FOR THIS SITE FOR SITE WORK PREPARATION & FOUNDATION WORK. AS A MINIMUM THE TOP 3" OF GRADE SHALL BE REMOVED. THE EXPOSED SUBGRAGE COMPACTED TO 2000 PSF, AND GEOTEXTILE FABRIC BE USED AS NOTED ON DRAWINGS.
- 2. ALL SELECT GRANULAR FILL SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINIS 3% OF OPTIMUM MOISTURE CONTENT.

TYPICAL GRAVEL COMPOUND CROSS SECTION

NOT TO SCALE

CONSTRUCTION OF A SILT FENCE 1. SET THE STAKES. (WITHOUT WIRE SUPPORT)

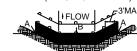
2. EXCAVATE A 4"X4" TRENCH UPSLOPE ALONG THE LINE (





3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH. 4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

SHEET FLOW INSTALLATION (PERSPECTIVE VIEW)



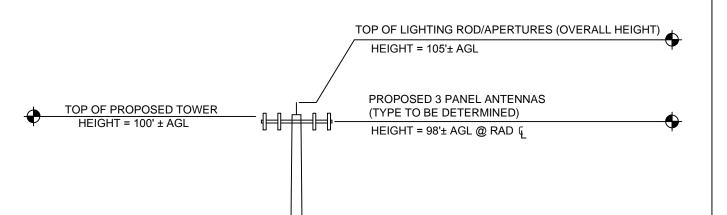


POINTS A SHOULD BE HIGHER THAN POINT B DRAINAGEWAY INSTALLATION (FRONT ELEVATION)

SILT FENCE FABRIC SHALL BE 36" TALL, STAKED WITH 2" X 2" X 5" HARDWOOD STAKES ON 6' CENTERS.

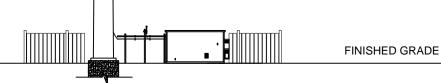
SILT FENCE

NOT TO SCALE



NOTE

THIS ELEVATION SHOWS THE INTENDED LOCATION OF THE PROPOSED EQUIPMENT. IT DOES NOT INFER THAT A STRUCTURAL ANALYSIS HAS BEEN CONDUCTED TO VERIFY THAT THE TOWER CAN SUPPORT THE PROPOSED LOADS. A SEPARATE STRUCTURAL LETTER OR REPORT WILL DETERMINE THE TOWER ABILITY TO SUPPORT THE PROPOSED LOADS.



TOWER ELEVATION VIEW

NOT TO SCALE

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

A PROFESSIONAL COMPANY

441 PALLETS ROAD VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

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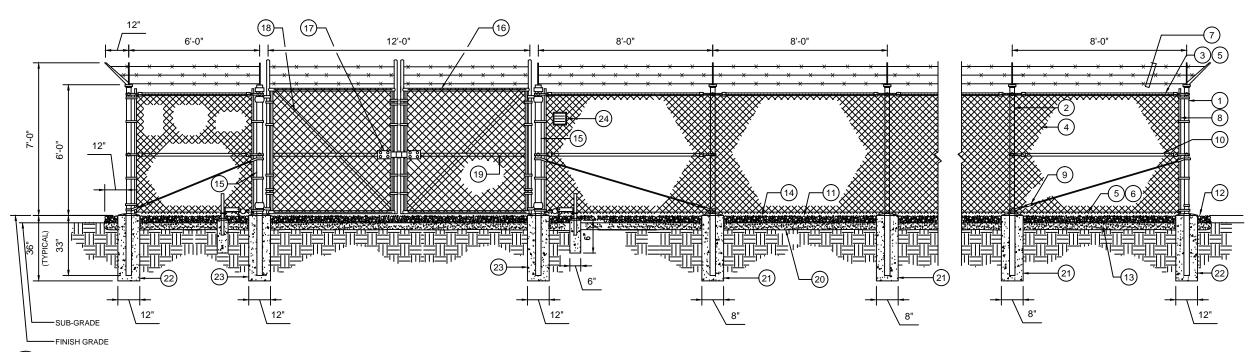
EASTERN SHORE

26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA 23308

DE	SIGN:	ARIAN Z	OTO P.E.
PR	OJECT NUMBER:	14-3	301
SUBMITTALS			
Λ	FINAL CONSTRUCTION	ON DWGS.	09/20/2014
SH	EET NAME:		

TOWER ELEVATION & DETAILS

SHEET NO.:



1 COMPOUND FENCE DETAIL C-6 NOT TO SCALE

REFERENCE NOTES:

- 1 CORNER, END OR PULL POST 3" NOMINAL SCHEDI II F 40 PIPE
- 2) LINE POST: 2 1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" OC
- (3) TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
- $\fbox{4}$ FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- 5) TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX. 24" INTERVALS.
- 6 TENSION WIRE: 9 GA GALVANIZED STEEL.
- (7) BARBED WIRE: DOUBLE STRAND 12-1/2" OD TWISTED WIRE TO MATCH WITH FABRIC 14 GA, 4 POINT BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- (8) STRETCHER BAR.
- (9) 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
- (10) FENCE CORNER POST BRACE: 1 5/8" DIA EACH CORNER EACH WAY.
- 11 1/2" MAXIMUM CLEARANCE FROM GRADE.
- 4" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.
- 6° COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.
- (14) FINISH GRADE SHALL BE UNIFORM AND LEVEL.
- (15) GATE POST 4". SCHEDULE 40 PIPE, FOR GATE WIDTHS UP THRU 7 FEET OR 14 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083.
- (16) GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
- (17) GATE LOCKING DEVICE (OFCI)

- (18) 1-1/2 PAIR INDUSTRIAL MALLEABLE IRON OFFSET PIN HINGE (PAGE-WILSON M-6 OR EQUAL)
- (19) GATE FRAME BRACE
- (20) GEOTEXTILE FABRIC
- 21) LINE POST: CONCRETE FOUNDATION (2000 PSI)
- (22) CORNER POST: CONCRETE FOUNDATION (2000 PSI)
- (23) GATE POST: CONCRETE FOUNDATION (2000 PSI)
- KNOX BOX MODEL 3205 RAPID ENTRY SYSTEM MOUNTED TO FENCE EXTERIOR BY U-BOLTS.

GENERAL NOTES:

- 1. INSTALL FENCING PER ASTM F-567
- 2. INSTALL SWING GATES PER ASTM F- 900
- 3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
- 4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1 1/2" GALV. (HOT DIP, ASTM 4120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
- 5. ALL OPEN POSTS SHALL HAVE END-CAPS.
- 6. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
- 7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC.

EASTERN SHORE BROADBAND AUTHORITY

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26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA 23308

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final Co	ONSTRUCTI	ON DWGS.	09/20/2014
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COMPOUND FENCE DETAILS

SHEET NO.:

GENERAL NOTES

- USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER DRAWINGS. COORDINATE THE WORK OF OTHER TRADES INCLUDING. BUT NOT LIMITED TO. THE REQUIREMENTS FOR SLEEVES. INSERTS HOLES AND ANCHORS
- 2. REPORT DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS TO THE ENGINEER PRIOR TO BEGINNING WORK IN AREAS THAT WILL BE AFFECTED.
- DETAILS APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR
- 4. PROVIDE TEMPORARY BRACING AND SHORING OF THE STRUCTURE AND COMPONENTS UNTIL ALL COMPONENTS ARE ERECTED AND ALL CONNECTIONS ARE FULLY MADE. AS NECESSARY, TO ENSURE STABILITY DURING CONSTRUCTION.
- VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. TAKE ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF STRUCTURAL MEMBERS
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, BECOME FAMILIAR WITH THE STRUCTURAL CONDITIONS OF THE EXISTING STRUCTURE. PROVIDE ALL NECESSARY SAFEGUARDS TO MAINTAIN ALL PARTS OF THE STRUCTURE IN A SAFE CONDITION AT ALL TIMES DURING THE PROCESS OF CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE THAT ARE TO REMAIN.
- WHERE EXISTING CONSTRUCTION THAT IS TO REMAIN IN PLACE, BE RE-USED, OR REMAIN THE PROPERTY OF THE OWNER IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, REPLACE WITH NEW OR REPAIR TO ITS ORIGINAL CONDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL COSTS SHALL BE BORNE BY THE CONTRACTOR.
- 8. REPRODUCTION OF THE CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.
- ALL ITEMS SHOWN IN THESE DRAWINGS ARE NEW CONSTRUCTION UNLESS SPECIFICALLY NOTED AS EXISTING
- DIMENSIONS GIVEN FOR THE EXISTING STRUCTURE AND COMPONENTS THEREOF ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. DETAIL WORK SHALL BE BASED ON THE CONTRACTOR'S FIELD MEASUREMENTS.

CONCRETE NOTES

- CONCRETE CONSTRUCTION SHALL COMPLY WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS: AMERICAN CONCRETE INSTITUTE (ACI) 301-99, SPECIFICATIONS FOR STRUCTURAL CONCRETE; ACI 318-02, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. SUBMIT MIX DESIGN FOR APPROVAL
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

PORTLAND CEMENT	ASTM C 150, TYPE I
FLY ASH	ASTM C 618, TYPE F
(NOT TO EXCEED 15% OF CEMENT BY	WEIGHT)
NORMAL WEIGHT AGGREGATES	ASTM C 33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C 260
WATER REDUCING ADMIXTURES	ASTM C 494, TYPE A
RETARDING ADMIXTURE	ASTM C 494, TYPE B
WATER-REDUCING AND RETARDER ADMIXTURES	ASTM C 494, TYPE F
HIGH-RANGE, WATER-REDUCING ADMIXTURES	ASTM C 494, TYPE D
HIGH-RANGE-WATER REDUCING	ASTM C 494, TYPE F
AND RETARDER ADMIXTURES	

- ACCELERATING ADMIXTURE ASTM C 494, TYPE E REINFORCING STEEL SHALL BE DEFORMED BARS IN ACCORDANCE WITH ASTM A-615, GRADE 60. REINFORCING MARKED CONTINUOUS SHALL BE LAPPED IN ACCORDANCE WITH ACI 318-02.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 82 AND A 185. LAP ONE FULL MESH SPACING
- AND TIE.

 SUPPORT REINFORCING AND WELDED WIRE FABRIC ON METAL CHAIRS OR BOLSTERS.

 MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318-02 UNLESS OTHERWISE INDICATED.
- ALL COLD WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 306R, "COLD WEATHER CONCRETING'
- ALL HOT WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 305R, "HOT WEATHER CONCRETING"
- 10. CURING COMPOUND SHALL COMPLY WITH ASTM C 309, TYPE I, CLASS B.
- 11. CONTRACTOR MAY SUBSTITUTE COLLATED FIBRILLATED POLYPROPYLENE OFELIN FIBERS, REFERRED TO AS FIBER MESH. IN PLACE OF WELDED WIRE FABRIC.

EXCAVATION NOTES

- SELECT FILL MATERIAL: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF WASTE, FROZEN MATERIALS, AND VEGETATION, WITH LESS THAN 5 PERCENT BY WEIGHT RUBBLE. RUBLE SHALL BE NO LARGER THAN 4 INCHES IN ANY DIRECTION.
- PIER SHALL NOT BE PLACED IN FROZEN GROUND.
- DESIGN ALLOWABLE SOIL BEARING PRESSURE IS 2000 PSF ON SUITABLE RESIDUAL SOIL OR PROPERLY COMPACTED STRUCTURAL FILL. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698).
- AFTER EXCAVATIONS ARE MADE, THE BOTTOMS SHALL BE INSPECTED TO VERIFY THAT THE SUPPORTING SOILS ARE SUITABLE FOR BEARING AND ARE CAPABLE OF SUPPORTING THE DESIGN ALLOWABLE PRESSURE OF 2000 PSF

STRUCTURAL NOTES

1. STRUCTURAL LOADS ARE IN ACCORDANCE WITH THE IBC 2012 AND ASCE 7-10. 2. DESIGN LOAD CRITERIA:

A GRAVITY LOADS: EQUIPMENT LOADS: 4.000 LBS GROUND SNOW LOAD CONCRETE PAD LIVE LOAD: 100 PSF WIND LOADS: BASIC WIND SPEED: 120 MPH VELOCITY PRESSURE: 15 PSF EXPOSURE CATEGORY IMPORTANCE FACTOR

- 3. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT AND FROM STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE STRUCTURAL CONDITIONS OF THE EXISTING STRUCTURE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY SAFEGUARDS. TO MAINTAIN ALL PARTS OF THE STRUCTURE IN A SAFE CONDITION AT ALL TIMES DURING THE PROCESS OF CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE STRUCTURE WHICH ARE TO
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING
- 6. NORTH ARROW ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION

STEEL NOTES

- ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION, INCLUDING CURRENT REVISIONS.
- 2. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

ASTM A992 WIDE ELANGE SHAPES SQUARE AND RECTANGULAR HSS ASTM A500 GRADE B ROUND HSS ASTM A501 GRADE B PLATES AND ANGLES ASTM A36 THREADED ROD HIGH STRENGTH BOLTS ASTM A325 ANCHOR BOLTS ASTM F1554 ASTM A53 GRADE B

- GRATING SIZE SHALL BE 1-1/4" X 1/6" (BEARING BARS) SPACED 1-13/16" OC WITH 1/8" X 1/8" (CROSS BARS) SPACED AT 4" OC. ALL GRATING COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL WELDING CODE. ALL WELDERS SHALL DISPLAY PROPER CERTIFICATION OF QUALIFICATION.
- HOLES SHALL NOT BE FLAME CUT THRU STEEL, UNLESS APPROVED BY ENGINEER.
- WELDS SHALL BE MADE WITH E-70XX ELECTRODES UNLESS NOTED OTHERWISE.
- ALL STEEL IS TO BE GALVANIZED ACCORDING TO ASTM A123, ASTM A153/A 153M OR ASTM A653, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 BY APPLICATION STICK, THICK PASTE MATERIAL OF ZINC PAINT SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING, CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIALS IS APPLIED WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTE. SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS

EASTERN SHORE BROADBAND AUTHORITY

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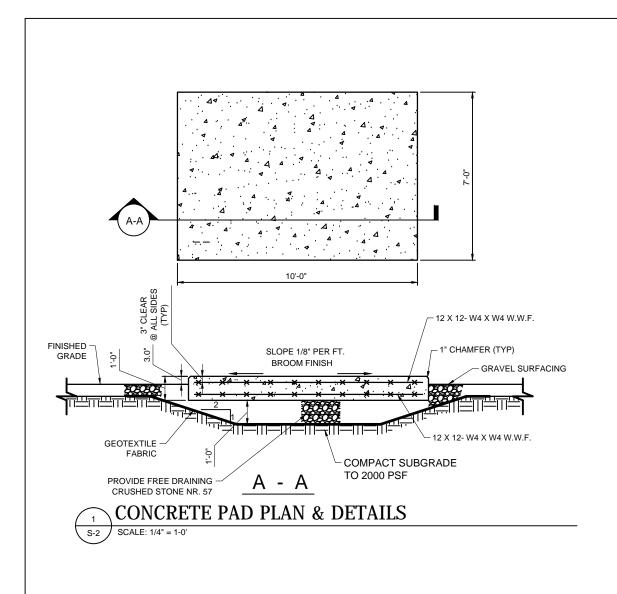
26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA 23308

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SHEET NAME:				

STRUCTURAL NOTES

SHEET NO.:

S-1



EASTERN SHORE BROADBAND AUTHORITY

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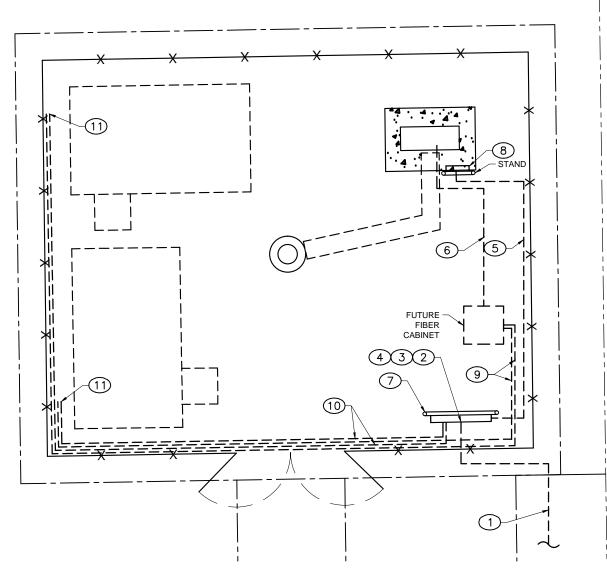
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STRUCTURAL PLAN & DETAILS

SHEET NO.:

S-2



ELECTRIC PLAN

SCALE: 1/8" = 1-0'

ELECTRIC NOTES

- (1) Ø4" PVC (SCH40) C FOR INCOMING POWER. COORDINATE WITH POWER COMPANY FOR THE WIRING SIZE.
- PROVIDE 4-GANG METER BASE. COORDINATE W/POWER COMPANY.
- PROVIDE METER IN NEW 4-GANG METER BASE. COORDINATE W/POWER COMPANY.
- PROVIDE CIRCUIT BREAKER ENCLOSURE, SERVICE ENTRANCE RATED 240V, 200A, 1Ø, NEMA 3R, MIN.22kAIC.
- PROVIDE GROUND PER NEC
- (5) Ø3" PVC (SCH40) C WIT (3)#3/0, CU, THWN & 1#6, CU, THWN GND. TRANSITION TO Ø3" RMC C ABOVE THE GROUND. MIN. 30" BFG.
- (6) Ø4" PVC (SCH40) C FOR FIBER CABLE RUN FROM FIBER CABINET TO EQUIPMENT CABINET
- 7) NEW UTILITY STAND. SEE DETAIL SHEET E-2.
- 8 NEW POWER PANEL. 240V, 200A, 1Ø, NEMA 3R
- Ø4" PVC (SCH40) C FOR FUTURE FIBER CABLE.
- (10) Ø3" PVC (SCH40) C FOR FUTURE POWER
- (11) STUB-UP AND COVER FOR FUTURE USE.

ELECTRICAL LEGEND

EXISTING PANELBOARD

NEW PANELBOARD

GROUND BAR

JUNCTION BOX

POWER WIRING, 2FF12, 1FF12-1/2"C MIN

− G — GROUNDING WIRING

DISCONNECT SWITCH

E EQUIPMENT CONNECTION

LIGHTING FIXTURE

DUPLEX RECEPTACLE, 20A, 120V

S S3 LIGHTING SWITCH, 20A, 120A

ELECTRICAL ABBREVIATIONS

A AMPERE

ATS AUTOMATIC TRANSFER SWITCH

BFG BELLOW FINISHED GRADE

C CONDUIT

CU COPPER

CB CIRCUIT BREAKER

(E) EXISTING

EMT ELECTRICAL METALLIC TUBING

GND GROUND

RMC RIGID METAL CONDUIT

KAIC THOUSAND AMPERE INTERRUPT. CURRENT

MLO MAIN LUGS ONLY

P POLE

V VOLT

ELECTRICAL SPECIFICATIONS

A. BASIC ELECTRICAL REQUIREMENTS:

- THE WORK INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED AND READY FOR SATISFACTORY SERVICE.
- 2. ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE AND LOCAL ELECTRICAL CODES THAT GOVERN EACH PARTICULAR TRADE AND THE NATIONAL ELECTRICAL CODE.
- 3. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL EQUIPMENT INSTALLATION WITH ALL TRADES AND OWNER'S EQUIPMENT.
- THE CONTRACTOR SHALL MAKE APPLICATION AND PAY ALL CHARGES FOR ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES. UPON COMPLETION OF THE WORK, THE CUSTOMARY CERTIFICATIONS OF APPROVAL SHALL BE FURNISHED.
- NO MATERIALS OR EQUIPMENT SHALL BE USED IN THE WORK UNTIL APPROVED. ALL MATERIALS SHALL BE UL. LISTED. ALL EQUIPMENT SHALL BE RATED MINIMUM 22KAIC.
- THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SHALL INSPECT THE EXISTING
 CONDITIONS OF THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL NOT RELIEVE
 THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
 THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL
- 7. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL INSTALLATIONS. DETAILS OF PROPOSED DEPARTURES DUE TO ACTUAL FIELD CONDITIONS OR OTHER CAUSES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. REWORK OF COMPLETED ITEMS DUE TO IMPROPER FIELD COORDINATION SHALL BE AT THE CONTRACTORS EXPENSE.

B. WIRES AND CABLES:

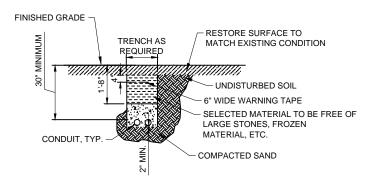
- BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE 600 VOLT, TYPE THWN INSULATION FOR INTERIOR AND EXTERIOR USE. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY. NO ROMEX OR AC (BX) CABLE WILL BE ALLOWED ON THE PROJECT.
- 2. NO WIRE SMALLER THAN NO. TWELVE (12) AWG SHALL BE USED UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM TERMINAL BOARD TO POINT OF FINAL CONNECTION, AND NO SPLICE SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. ALL CONDUCTORS SHALL BE OF THE SIZES AS INDICATED. ALL WIRES NO. EIGHT (8) AWG AND LARGER SHALL BE STRANDED. THE CONTRACTOR SHALL MAKE WIRING CONNECTIONS OF ALL ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE. WIRES AND CABLES SHALL BE AS MANUFACTURED BY PIRELLI, ROYAL, AND TRIANGLE OR EQUIVALENT.
- 3. ALL WIRING SHALL BE COLOR CODED, MATCH EXISTING SYSTEM COLOR CODING WHERE APPLICABLE

C. GROUNDING:

- PROVIDE GROUND FOR ALL RACEWAYS, DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AS HEREINAFTER SPECIFIED. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE SOLDERLESS.
- PROVIDE INSULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS
 CALLED FOR ON THE PLANS. PROVIDE GROUNDING BLOCKS, TERMINALS, ETC. FOR CONNECTION OF
 GROUND WIRE IN ALL DISTRIBUTION FOUIPMENT
- 3. RESISTIVITY/EGR INSPECTION 24-HOUR NOTICE SHALL BE GIVEN TO BEFORE THE COMPLETION OF THE EGR TO ALLOW FOR AN OPEN TRENCH INSPECTION OF THE SYSTEM AND TO WITNESS THE GROUND FIELD RESISTIVITY TEST. A THREE ELECTRODE FALL OF POTENTIAL TEST IS REQUIRED WITH AN EXPECTED READING OF LESS THAN 5 OHMS. A RESISTIVITY TEST REPORT, WITH A COPY OF THE TEST UNIT'S MOST RECENT CALIBRATION CERTIFICATION IS REQUIRED.

D. CONDUIT:

- CONDUIT INSIDE BUILDING SHALL BE EMT. CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 40, MINIMUM 18" BELLOW GRADE. CHANGE PVC TO RMC PRIOR TO RISING ABOVE GRADE. PENETRATE EXTERIOR WALLS WITH RMC.
- CONDUIT SHALL BE UL LISTED AND APPROVED FOR ITS INTENDED USE.



UNDERGROUND CONDUITS DETAIL

NOT TO SCALE

EASTERN SHORE BROADBAND AUTHORITY

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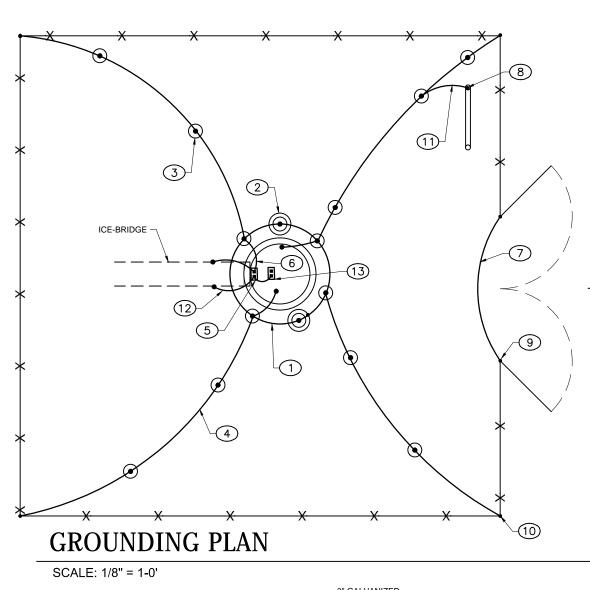
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PR	OJECT NUMBER:	14-301			
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SH	EET NAME:				

ELECTRIC PLAN, NOTES & DETAILS

SHEET NO.:

E-1



GENERAL GROUNDING NOTES

- ALL #2 TINNED COPPER GROUND WIRE ABOVE THE GRADE SHALL BE SHEATHED IN 3/4" GRAY PVC CONDUIT, SEAL TOP WITH GRAY 20 YEAR SILICON CAULK, INSTALL CONDUIT TO CADWELD CONNECTION AT GROUND RING.
- INDICATED DRAWING LOCATIONS ARE FOR SCHEMATIC PURPOSE ONLY. EXACT LOCATION SHOULD BE VERIFIED BY CONTRACTOR.
- GROUND RING TO BE PLACED A MINIMUM DISTANCE OF 2' FROM ANY CONCRETE
- FENCE TO BE CONNECTED TO GROUND RING AT ALL CORNERS WITH CADWELD AT FENCE POST AND GROUND ROD
- TOWER LEG TO BE CONNECTED TO GROUND ROD IN TOWER RING. CADWELD TO TOWER LEG. 3' ABOVE BASE PLATE.
- GATE LEAF TO BE CADWELDED TO GATE POST WITH 2/0 WELDING CABLE.
- 7. CADWELD A #2 LEAD FROM GATE POST TO GATE POST.
- ALL GROUND LEADS TO GROUND RING CONNECTIONS SHALL BE AT A GROUND ROD.

INSPECTION PORT DETAIL

- 6" PVC PLUG

-6" PVC COUPLING

WIRE TESTING LOOP,

GROUND RING

GROUND ROD

5/8" X 10'

TRENCH BOTTOM

#2 AWG TINNED BARE COPPER

CADWELD TO GROUND RING

NOTCH SIDES OF 6" PVC SCH 40 PIPE TO ALLOW EXIT/

ENTRANCE OF GROUND RING

NOT TO SCALE

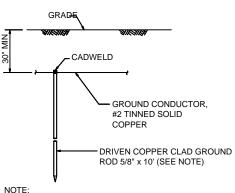
CADWELD

CONNECTION

T/FINISHED GRADE

REFERENCE NOTES

- #2 TINNED SOLID COPPER TOWER GROUND RING, TYP.
- (2)INSPECTION WELL. SEE DETAIL THIS SHEET
- (3) GROUND ROD (TYP). SEE DETAIL THIS SHEET.
- 4 #2 TINNED SOLID COPPER GROUND WIRE FROM GROUND RING TO FENCE.
- (5) 1/4" x 4" x 12" TOWER BOTTOM GROUND BAR. MOUNT AT TOWER CROSSBAR.
- **(6)** #2 TINNED SOLID COPPER GROUND WIRE FROM GROUND RING TO TOWER GROUND BAR (TYP OF 2).
- (7)#2 TINNED SOLID COPPER FROM GATE POST TO GATE POST
- (8) #2/0 COPPER SERVICE GROUND
- (9) GATE GROUNDING. SEE DETAIL THIS SHEET SHEET.
- FENCE TO BE CONNECTED TO GROUND RING AT ALL CORNERS WITH CADWELD AT FENCE POST AND GROUND ROD. SEE DETAIL THIS SHEET
- CONNECT SERVICE GROUND TO TOWER GROUND RING.
- (12) #2 TINNED SOLID COPPER GROUND WIRE FROM TOWER BOTTOM GROUND BAR TO ICE BRIDGE POST.
- 1/4" x 4" x 12" TOWER TOP GROUND BAR. MOUNT AT TOWER CROSSBAR.



PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE MAXIMUM 5 OHMS RESISTANCE

> FENCE POST MUST BE CONNECTED TO THE

GROUND RING WITH THE CONNECTION AS

SHOWN TO THE LEFT FOR CORNER FENCE

POST. IF A METALLIC

FROM POST TO POST,

CONNECTIONS CAN BE

LIMITED TO NO MORE

THAN 20' MAX

DISTANCE PER

CONNECTION

FENCE RAIL SPANS

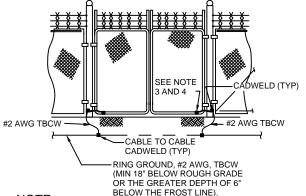
GROUND ROD DETAIL

–3" GALVANIZED PIPE POST W/ CAPPED ENDS 5'-0" P-1000 UNISTRUT CLAMP UNISTRUT TO PIPE CADWELD -GRADE-#2 COPPER GROUND. CADWELD TO GROUND RING. INSTALL IN 3/4" PVC C AT LEAST 24" INTO GROUND FOR PROTECTION #2 COPPER GROUND. OF THE WIRE CADWELD TO GROUND 8"x5/8" THREADED ROD (TYP) RING. INSTALL IN 3/4" PVC C AT LEAST 24" INTO CONCRETE FOUNDATION GROUND FOR PROTECTION FRONT ELEVATION 1'-6"

NOTE: CONTRACTOR SHALL VERIFY AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVICE TRANSFORMER'S SECONDARY TERMINALS.

NEW SERVICE STAND ELEVATION

NOT TO SCALE

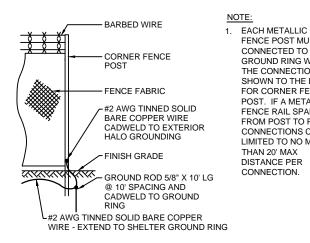


NOTE:

- THE #2 AWG, TBCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST, ABOVE GRADE.
- BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO
- GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
- GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

GATE GROUNDING DETAIL

NOT TO SCALE



FENCE GROUNDING DETAIL

NOT TO SCALE

EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

441 PALLETS ROAD VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

SITE INFO.:

EASTERN SHORE

26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA 23308

DESIGN:		ARIAN ZOTO P.E.					
PR	OJECT NUMBER:	14-301					
	SUBMITTALS						
Δ	FINAL CONSTRUCTION	ON DWGS.	09/20/2014				
SHEET NAME:							
COMPOUND							

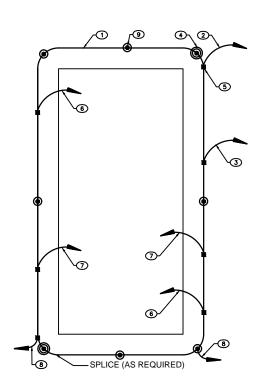
COMPOUND **GROUND PLAN**

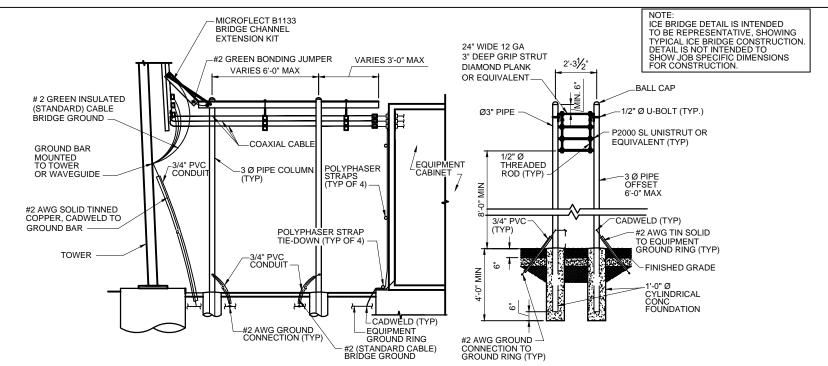
SHEET NO.:

E-2

CONCRETE PAD/EQUIPMENT GROUND RING PLAN NOTES

- 1 #2 BARE, TINNED SOLID COPPER GROUND 24" BELOW GRADE (MIN).
- ② CADWELD 3" ABOVE GRADE TO FENCE POST WITHIN 6". SEE DETAIL SHEET E-2.
- 3 #2 BARE, TINNED SOLID COPPER GROUND LEAD FROM DISCONNECT.
- ◆ INSPECTION PORT 6" DIA PVC SCH. 40 WITH COUPLING & CAP (2 REQ'D) OPPOSITE ENDS (TYP OF 2). SEE DETAIL SHEET E-2.
- S CADWELD (TYP).
- #2 BARE, TINNED SOLID COPPER GROUND LEAD TO PAD REINFORCMENT.
- (7) #2 BARE, TINNED SOLID COPPER GROUND LEAD TO EQUIPMENT GROUND.
- (8) #2 BARE, TINNED SOLID COPPER GROUND LEAD TO TOWER GROUND RING.
- (9) GROUND ROD, TYP. SEE DETAIL SHEET E-2.

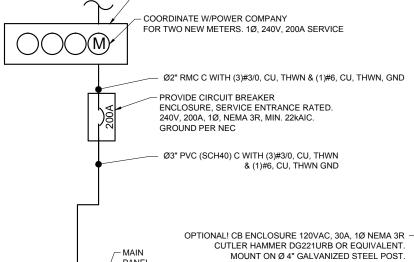




ICE-BRIDGE GROUNDING/STRUCTURAL DETAILS

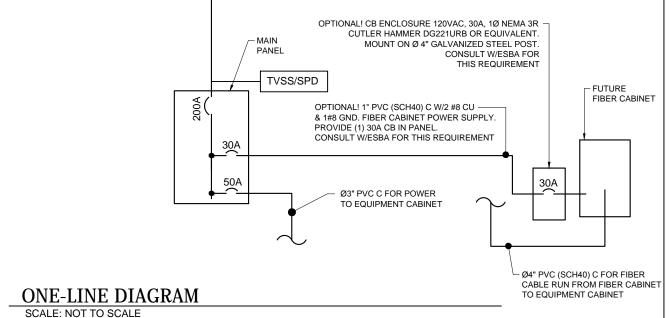


SCALE: NOT TO SCALE



PROVIDE 4-GANG METER BASE

POWER PANEL						ENCLOSURE: SURFACE, 3R							
120/240 V, 200 A, 1Ø, 3-W, MAIN CB, MIN. 22kAIC													
	LOADAMA		BREAKER		LOAD (VA)		BREAKER		WIRE	LOAD NAME			
	LOAD NAME		Р	TRIP	PHAS	SE A	PHA	SE B	TRIP	Р		LOAD NAME	
1	EQUIP. CABINET # 1	_	_	EQ	4560	4560			EQ	_	-	EQUIP. CABINET # 2	2
3	EQUIF. CABINET # 1			EQ			4560	4560	EQ				4
5	SPARE						1600		20	1	10	RECEPTACLE, EXTER.	6
7	SPARE											SPARE	8
9	TVCC		2	200								SPARE	10
11	TVSS		_	2 200								SPARE	12
13	SPARE											SPARE	14
15	SPARE											SPARE	16
17	SPARE											SPARE	18
19	SPARE											SPARE	20
	TOTAL LOAD (VA)			4560 6160		60							
	AMPERES PER PHASE				38 51		1						
AMPERES X 125%				48 64									



EASTERN SHORE BROADBAND AUTHORITY

4174 LANKFORD HIGHWAY EXMORE, VIRGINIA 23350

DESIGNED BY:

A Z ENGINEERING

A PROFESSIONAL COMPANY

441 PALLETS ROAD VIRGINIA BEACH, VIRGINIA 23454 PHONE: 757-672-2339 EMAIL: azoto@cox.net

SITE INFO.:

EASTERN SHORE

26129 SHOREMAIN DRIVE BLOXOM, VIRGINIA 23308

DE	SIGN:	ARIAN Z	ARIAN ZOTO P.E.				
PR	OJECT NUMBER:	14-301					
SUBMITTALS							
Δ	FINAL CONSTRUCTION	ON DWGS.	09/20/2014				
SHEET NAME:							
CDOLINDING							

GROUNDING, PANEL SCHEDULE, ONE-LINE DIAGRAM

SHEET NO.:

E-3