



Consultants to Verizon Wireless
8159 Cancun Court
Gainesville, Virginia 20155

May 30, 2019

TO: County of Albemarle - Department of Community Development
401 McIntire Road, North Wing
Charlottesville, VA 22902

**RE: Verizon / Shadwell (Easton Property) Tier II Personal Wireless Service Facility
Special Exception Request for Modified Flush-mount Antenna Mounting**

To who it may concern:

This letter is being submitted pursuant to Section 5.1.40.a(12) as a request for approval of a Special Exception to modify Section 5.1.40.b(2)(c) - Projection in order to allow Verizon's proposed antennas to be installed in a modified flush-mount array.

Please find information supporting Verizon's request in the sections provided below:

Section 5.1.40.a(12): "Special Exception. If the proposed facility does not comply with any provision of section 5.1.40, the applicant shall request a special exception in writing as part of the application. The request shall identify which regulation in section 5.1.40 for the special exception is requested and a justification for the special exception."

Verizon will address the requests and justifications for required Special Exceptions below:

Request to modify Section 5.1.40.b(2)(c) of the Zoning Ordinance: "Projection. No antenna shall project from the facility, structure or building beyond the minimum required by the mounting equipment, and in no case shall the closest point of the back of the antenna be more than twelve (12) inches from the facility, structure, or building, and in no case shall the farthest point of the back of the antenna be more than eighteen (18) inches from the facility, structure, or building."

The proposed alternative mounts will allow all six of Verizon's antennas to be installed at the same mounting level on the proposed monopole, but they won't allow the antennas to meet the smaller maximum stand-off restriction of 12 inches. Therefore, Verizon is requesting approval of this Special Exception to allow a modification of the standard restrictions on antenna mounting distances. In this case the closest point from the monopole bottom to top at the backs of the proposed antennas will be approximately 18". Therefore, the proposed mounts will allow antennas to comply with the larger of the standoff limitations by being 18" from the monopole's face at their tops and bottoms.

Instead of requiring mechanical (physical) tilting, the proposed Commscope JAHH-65C-R3B antennas are equipped with Remote Electrical Tilt (RET) capabilities that allow antenna elements and their beams to be tilted electronically from inside the panels and without changing the distance from the



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monopole. Therefore, the greatest distance between the antennas and pole will actually be equal to or less than 18" which maximum that is allowed.

Approval of the proposed Special Exception will allow Verizon to better serve the surrounding areas in a more efficient way by allowing all six (6) of the antennas to clear the treetops and deploy the company's four licensed frequencies at the same mounting height. This is especially important, because in previous cases Verizon had been required to vertically stack two (2) separate antennas arrays, with parts of the lower antennas being situated below the tops of some surrounding trees. At the same time, the distance between the monopole and antennas within the proposed array will not greatly increase any perceived visual impacts because the antennas will still comply with the maximum distance that is normally allowed. Verizon also notes that the proposed configuration has been approved for other facilities within Albemarle County, so there should be no concerns about setting a design precedence with the approval of this request. Therefore, the requested Special Exception for the proposed mounting distance should be consistent with the criteria that are necessary for modification or waiving the requirements of Section 5.1.40.b(2)(c).

Please not hesitate to contact me at your earliest convenience if you should have any questions, comments or concerns, or will require any additional information for the review and approval of this request.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen Waller".

Stephen Waller, AICP
Planner / Site Development Consultant
GDN Sites - Consultants to Verizon Wireless
Phone: 434-825-0617

stephen.waller@gdnsites.com

cc: Margaret Maliszewski, Principal Planner



E911
 PARCEL

SHADWELL

3646 RICHMOND ROAD


KESWICK, VA 22947

DIRECTIONS TO SITE:

FROM GOODES BRIDGE SWITCH:
 TURN RIGHT TOWARD ELK R. FOR 0.4 MILES. TURN RIGHT ONTO US-360 E/HULL ST RD FOR 0.3 MILES. TAKE RAMP RIGHT FOR VA-150 NORTH TOWARD POWHITE PKWY FOR 3.4 MILES. TAKE RAMP RIGHT AND FOLLOW SIGNS FOR VA-76-TOLL NORTH FOR 2.6 MILES. KEEP LEFT TO STAY ON VA-76 N/BELTLINE EXPY FOR 0.9 MILES. KEEP STRAIGHT ONTO I-195 N FOR 2.3 MILES. TAKE RAMP FOR I-64 W FOR 56.8 MILES. AT EXIT 129, TAKE RAMP RIGHT TOWARD KESWICK/BOYD TAVERN FOR 0.3 MILES. TURN LEFT ONTO BLACK CAT RD FOR 0.6 MILES. TURN RIGHT ONTO US-250/RICHMOND RD FOR 2.2 MILES. ARRIVE A 3636 RICHMOND RD, KESWICK, VA 22947 (EASTON'S FURNITURE)

PROJECT DESCRIPTION
 INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT IN A RAWLAND SITE

UTILITIES INFORMATION:
 POWER: DOMINION
 (888) 667-3000
 TELEPHONE: CENTURY LINK
 (800) 769-0110

 2 WORKING DAYS BEFORE YOU DIG
 811
 TOLL FREE
 MISS UTILITY

EMERGENCY INFORMATION:
 LOCAL FIRE AND EMERGENCY SERVICES
 (434) 971-1765
 LOCAL EMERGENCY POLICE DISPATCH
 (434) 971-1765



LOCAL MAP

NOT TO SCALE



VICINITY MAP

NOT TO SCALE



PROJECT TEAM

REAL ESTATE:	CHAD FRECKMAN	PHONE NUMBER	(434) 996-4473
ZONING:	STEPHEN WALLER	PHONE NUMBER	(434) 825-0617
CONSTRUCTION:	STEVE POOLE	PHONE NUMBER	(540) 290-6704
UTILITIES:	RICK GLISSON	PHONE NUMBER	(804) 658-6871
ENVIRONMENTAL CONSULTANT:	ANDREW HENDRICKS	PHONE NUMBER	(703) 478-0055

SUB. NO	DESCRIPTION	BY	DATE	SUB. NO.	DESCRIPTION	BY	DATE
1	PRELIMINARY SITE PLAN REV #0	JYY	06/01/16	5	REVISED FINAL APPLICATION DRAWINGS REV #1	JYY	09/05/17
2	ENSITE DRAWINGS REV #0	JYY	03/06/17	6	REVISED FINAL APPLICATION DRAWINGS REV #2	JYY	01/17/18
3	APPLICATION DRAWINGS REV #0	JYY	03/16/17	7	REVISED FINAL APPLICATION DRAWINGS REV #3	JYY	02/09/18
4	FINAL APPLICATION DRAWINGS REV #0	JYY	03/27/17	8	REVISED FINAL APPLICATION DRAWINGS REV #4	JYY	03/22/19

A & E CONSULTING TEAM

ARCHITECTURE AND ENGINEERING:
 CLARK NEXSEN
 8000 TOWERS CRESCENT DRIVE, SUITE 1350
 VIENNA, VA 22182
 PROJECT MANAGER: JUSTIN YOON, PE
 TELEPHONE: (703) 822-4846

SURVEY:
 CAUSEWAY CONSULTANTS, P.C.
 LAND SURVEYOR'S
 P.O. BOX 15039
 CHESAPEAKE, VA 23328
 CONTACT: ED WHITE, LS
 TELEPHONE: (757) 482-0474

PROJECT SUMMARY

PROPERTY OWNER:
 EASTON, ALICE S.
 513 BERWICK COURT
 CHARLOTTESVILLE, VA 22901

APPLICANT INFORMATION:
 VERIZON WIRELESS
 1831 RADY COURT
 RICHMOND, VA 23222
 CONTACT: MARC CORNELL
 TELEPHONE: (804) 548-4079
 FAX NUMBER: (804) 321-0398

PROJECT DATA:
 ZONING: RA, EC
 TAX MAP# 074A1-00-0C-00300
 ACREAGE: 1.00 AC
 JURISDICTION: ALBEMARLE COUNTY
 SITE TYPE: RAWLAND
 TOWER TYPE: MONOPOLE
 TOWER HEIGHT: 100.5'± AGL
 OVERALL HEIGHT: 102.5'± AGL
 LEASE AREA: 1600 SF
 AREA OF LAND DISTURBANCE: 5032 SF

GEOGRAPHIC COORDINATES:
 LATITUDE: 38° 00' 31.0482" N (NAD 83)
 LONGITUDE: 78° 22' 18.5534" W (NAD 83)
 ELEVATION: 409.3' (NAVD 88)

ADA COMPLIANCE:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
 SITE WILL NOT BE SERVED BY CITY SEWER OR WATER.

INDEX OF DRAWINGS

Sheet Number	Sheet Title
GENERAL	
G-1	COVER SHEET
G-2	GENERAL NOTES AND CONCRETE EQUIPMENT PAD DETAILS
CIVIL	
C-1	SITE SURVEY
C-1A	TREE INVENTORY
C-1B	AREA MAP
C-2	ENLARGED SITE PLAN
C-3	ELEVATION VIEW
C-4	GRADING PLAN
C-4A	ENLARGED GRADING PLAN
C-4B	ENLARGED GRADING PLAN AND ENTRANCE PLAN
C-4C	DETAILS
C-5	FENCE AND SINGAGE
C-6	ICE BRIDGE DETAILS
C-7	EQUIPMENT LAYOUT AND NOTES
C-8	CONCRETE PAD DETAILS

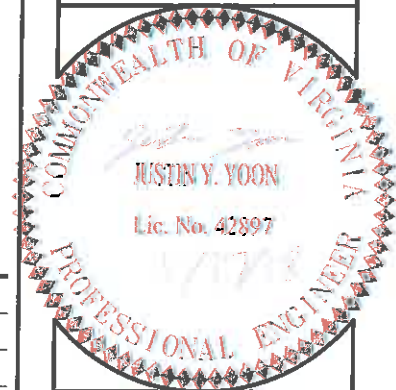
SHEET TOTAL:
 15

CLARK NEXSEN

1111 E. Main Street,
 Suite 1905
 Richmond, VA 23219
 804.644.4690



1831 RADY COURT
 RICHMOND, VA 23222



SITE INFO:
SHADWELL

RAWLAND

3646 RICHMOND RD
 KESWICK, VA
 22947

ALBEMARLE COUNTY

DESIGN:	JYY
DRAWN:	WMD
REVIEW:	JYY
TTV DATE:	05/06/16
COMM. NO.:	5833-446

SUBMITTALS

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8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:

COVER SHEET

SHEET NO.:

G-1

GENERAL NOTES

- COORDINATE THE WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, AND ANCHORS.
- 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 REFERENCED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SUPERVISION OF THE WORK ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- REPRODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

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 OF STONE. STONES SHALL BE NO LARGER THAN 1-1/2 INCHES IN ANY DIRECTION.
- FOUNDATIONS SHALL NOT BE PLACED ON FROZEN GROUND.
- DESIGN ALLOWABLE SOIL BEARING PRESSURE IS 2000 PSF ON SUITABLE RESIDUAL SOIL OR PROPERLY COMPACTED SELECT FILL. THE ALLOWABLE SOIL BEARING PRESSURE IS AN ASSUMED VALUE. A GEOTECHNICAL INVESTIGATION WAS NOT CONDUCTED AS PART OF THIS PROJECT. SELECT FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).
- PRIOR TO PLACING FOUNDATION CONCRETE, THE CONTRACTOR SHALL HIRE A TESTING LABORATORY AND GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. THE LICENSED ENGINEER SHALL VERIFY THE SUPPORTING SOILS ARE CAPABLE OF SUPPORTING THE DESIGN ALLOWABLE SOIL BEARING PRESSURE AND SUBMIT A TEST REPORT FOR APPROVAL PRIOR TO CONSTRUCTION.

STEEL NOTES

- ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" DATED MARCH 9, 2005, INCLUDING CURRENT REVISIONS AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" DATED MARCH 18, 2005.
- STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

WIDE FLANGE SHAPES	ASTM A992
SQUARE AND RECTANGULAR HSS	ASTM A500 GRADE B FY=46 KSI
ROUND HSS	ASTM A500 GRADE B FY=42 KSI
CHANNELS, PLATES AND ANGLES	ASTM A36
THREADED ROD	ASTM A36
HIGH-STRENGTH BOLTS	ASTM A325
ANCHOR RODS	ASTM F1554 GRADE 36
PIPE	ASTM A53 GRADE B
- ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.

CONCRETE NOTES

- CONCRETE CONSTRUCTION SHALL COMPLY WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS: AMERICAN CONCRETE INSTITUTE (ACI) 301-05, SPECIFICATIONS FOR STRUCTURAL CONCRETE; ACI 318-08, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- CONCRETE SHALL BE NORMAL WEIGHT, 6% PLUS OR MINUS 1.5% AIR ENTRAINED AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

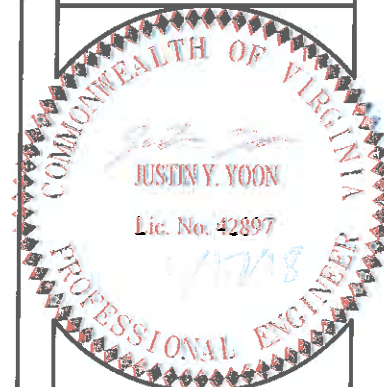
PORTLAND CEMENT	ASTM C 150, TYPE 1
FLY ASH	ASTM C 618, CLASS F (NOT TO EXCEED 15% OF CEMENT BY WEIGHT)
NORMAL WEIGHT AGGREGATES	ASTM C 33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C 260
WATER REDUCING ADMIXTURES	ASTM C 494, TYPE A
RETARDING ADMIXTURE	ASTM C 494, TYPE B
WATER-REDUCING AND RETARDING ADMIXTURES	ASTM C 494, TYPE D
ACCELERATING ADMIXTURE	ASTM C 494, TYPE C
HIGH-RANGE, WATER-REDUCING ADMIXTURES	ASTM C 494, TYPE F
HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURES	ASTM C 494, TYPE G
- 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.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064. LAP ONE FULL MESH SPACING PLUS TWO INCHES AND TIE.
- SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT ON METAL CHAIRS OR BOLSTERS.
- MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318 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."
- CURING COMPOUND SHALL COMPLY WITH ASTM C 309, TYPE I, CLASS B.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" OR AS INDICATED.

CLARKNEXSEN

1111 E. Main Street,
Suite 1905
Richmond, VA 23219
804.644.4690

verizon

1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

SHADWELL

RAWLAND

3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY

DESIGN:	JYY
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TTY DATE:	05/06/16
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SUBMITTALS

SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENROUTE DRAWINGS REV #0	03/08/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/18

SHEET NAME:

GENERAL NOTES
AND CONCRETE
EQUIPMENT PAD
DETAILS

SHEET NO.:

G-2

Spell checked by JAW on 05/27/2016 9:00am

ABBREVIATIONS

Ø, DIA	DIAMETER	EZBFO	BATTERY BACKUP CABINET	LTE	LONG TERM EVOLUTION	PSIG	POUNDS PER SQUARE INCH GAUGE
#	NUMBER	(F)	FOUND	MAX	MAXIMUM	R/W	RIGHT OF WAY
A/C	AIR CONDITIONING	FFE	FINISHED FLOOR ELEVATION	MHz	MEGAHERTZ	RD	ROAD
ADA	AMERICANS WITH DISABILITIES ACT	FIRM	FLOOD INSURANCE RATE MAP	MIN	MINIMUM	SCH	SCHEDULE
AFG	ABOVE FINISHED GRADE	GIS	GEOGRAPHIC INFORMATION SYSTEM	MI	MILE	SF	SQUARE FOOT/FEET
AGL	ABOVE GROUND LEVEL	GPIN	GRID PARCEL IDENTIFICATION NUMBER	N	NORTH	ST	STREET
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GPS	GLOBAL POSITIONING SYSTEM	NW	NORTHWEST	STD	STANDARD
AVE	AVENUE	ICC	INTERNATIONAL CODE COUNCIL	NAD	NORTH AMERICAN DATUM	TBM	TEMPORARY BENCHMARK
C, C/L	CENTERLINE	ID	IDENTIFICATION	NAVD	NORTH AMERICAN VERTICAL DATUM	T-PED	TELEPHONE PEDESTAL
CFH	CUBIC FEET PER HOUR	IFGC	INTERNATIONAL FUEL GAS CODE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	TTY	TECHNICAL TEAM VISIT
C.L.D.	CENTERLINE DITCH	INC	INCORPORATED	NO	NUMBER	TYP	TYPICAL
CMP	CORRUGATED METAL PIPE	INV	INVERT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	VA	VIRGINIA
CONC	CONCRETE	INFO	INFORMATION	P/P	POWER POLE	VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
D.B.	DEED BOOK	L/P	LIGHT POLE/LAMP POST	P.B.	PLAT BOOK	W	WEST
DWG(S)	DRAWINGS	LP	LIQUID PROPANE	PE	PROFESSIONAL ENGINEER	WB	WELL BOOK
ELEV	ELEVATION	LF	LINEAR FEET	P/PG.	PAGE	WC	WATER COLUMN
ENODE B	RF CABINET	LLC	LIMITED LIABILITY CORPORATION	P/L	PROPERTY LINE	YDS	YARDS
EOE	EXISTING OVERHEAD ELECTRIC	LS	LAND SURVEYOR	PROJ.	PROJECT		

SURVEYOR'S NOTES

- TOPOGRAPHIC SURVEY PERFORMED BY CAUSEWAY CONSULTANTS, P.C. P. O. BOX 15039, CHESAPEAKE, VIRGINIA, 23328-50394. PHONE: 757-482-0474. SURVEY DATE: MAY 10, 2016.
- COORDINATES AND ELEVATIONS SHOWN WERE ESTABLISHED USING STATIC GPS OBSERVATIONS, POST PROCESSED THROUGH NOAA'S OPUS WEBSITE AND CONVERTED TO NAVD 88 AND NAD 83, U.S SURVEY FOOT, FOR THE VERTICAL DATUM AND HORIZONTAL COORDINATES, RESPECTIVELY, USING U.S. ARMY CORPS OF ENGINEERS CORPSCON SOFTWARE, VERSION 6.01.
- NO SUB-SURFACE INVESTIGATION WAS PERFORMED BY CAUSEWAY CONSULTANTS, P.C. THIS SURVEY DOES NOT GUARANTEE THE "EXISTENCE OR NONEXISTENCE" OF UNDERGROUND UTILITIES. PRIOR TO ANY CONSTRUCTION OR EXCAVATION, CONTACT MISS UTILITY AT 1-800-552-7001 TO CONFIRM THE LOCATION OR EXISTENCE OF UNDERGROUND UTILITIES.
- THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT DEPICT ANY OR ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
- PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY. THE RIGHT-OF-WAY, PROPERTY LINE AND/OR EASEMENTS SHOWN HEREON REPRESENT A COMPILATION OF RECORDED DEEDS, PLATS, G.I.S. RECORDS AND TAX MAPS.
- THE AREA OF THE PROPOSED CELL TOWER APPEARS TO LIE WITHIN FLOOD ZONE "X" ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY - NATIONAL FLOOD INSURANCE COMMUNITY NUMBER 51003C 0325 D, DATED FEBRUARY 4, 2005.
- THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS, WAS NEITHER INVESTIGATED, NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

LEASE NOTES

- NEW VERIZON WIRELESS 20' INGRESS/EGRESS AND UTILITY RIGHT-OF-WAY
- NEW VERIZON WIRELESS 1600 SF LAND SPACE

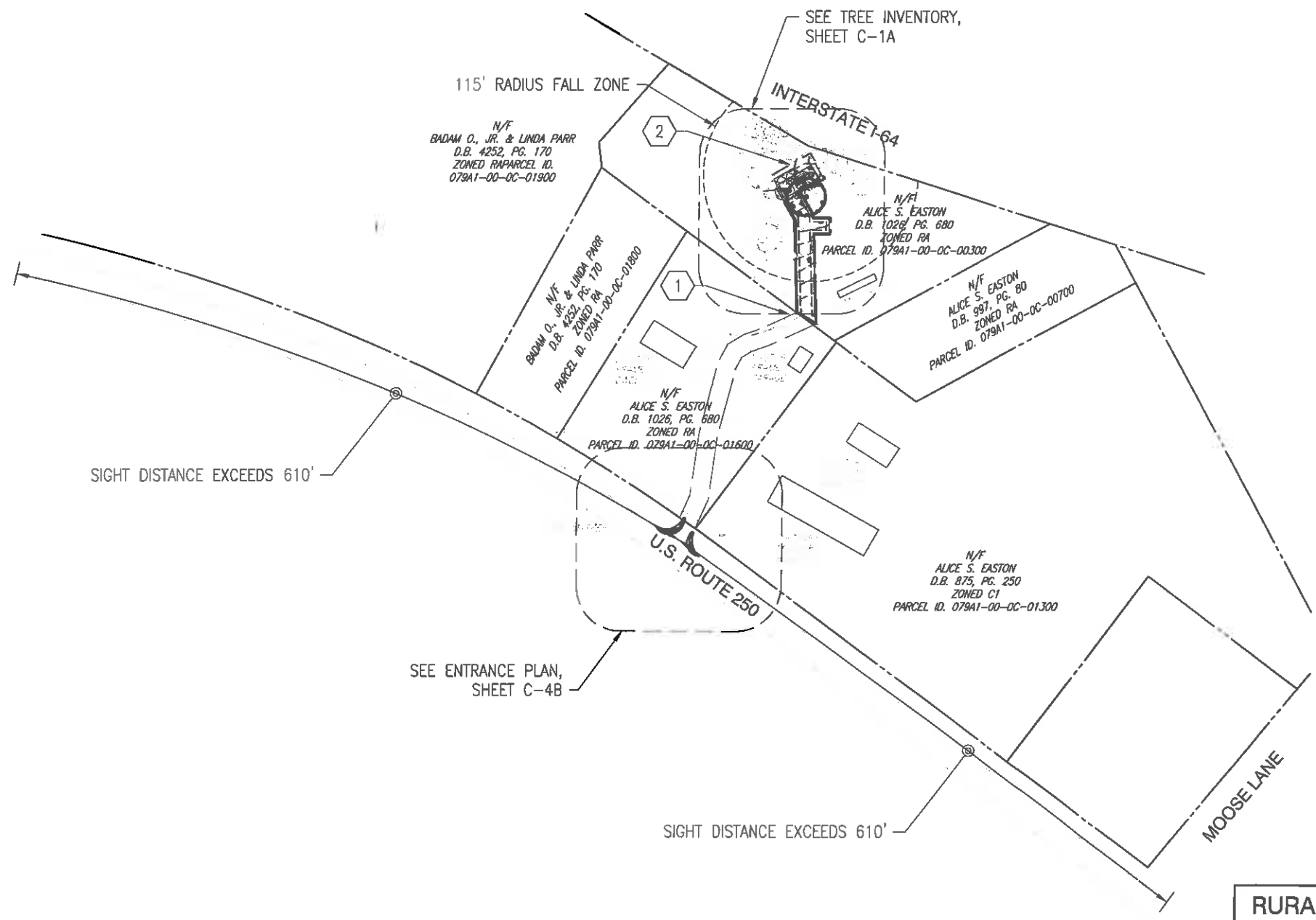
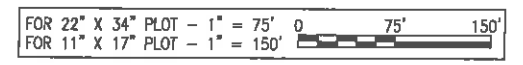
LEGEND

EXISTING	NEW	
		CONCRETE
		PROPERTY LINE
		LEASE AREA
		EASEMENT
		BUILDING (FOOTPRINT)
		FENCE
		TREELINE
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		OVERHEAD ELECTRIC
		CONTOURS
		MONOPOLE
		POWER POLE

RURAL AREA SETBACK

FRONT:	75'
SIDE:	25'
REAR:	35'

GRAPHIC SCALE(S)



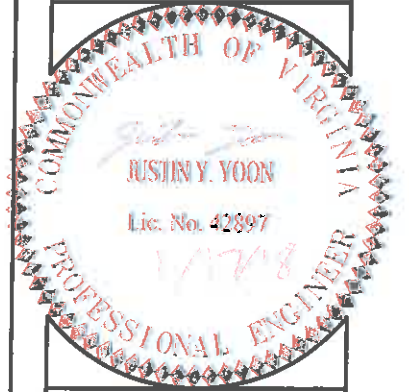
SITE SURVEY

CLARK NEXSEN

1111 E. Main Street,
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804.644.4690



1831 RADY COURT
RICHMOND, VA 23222



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ALBEMARLE COUNTY

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SUBMITTALS

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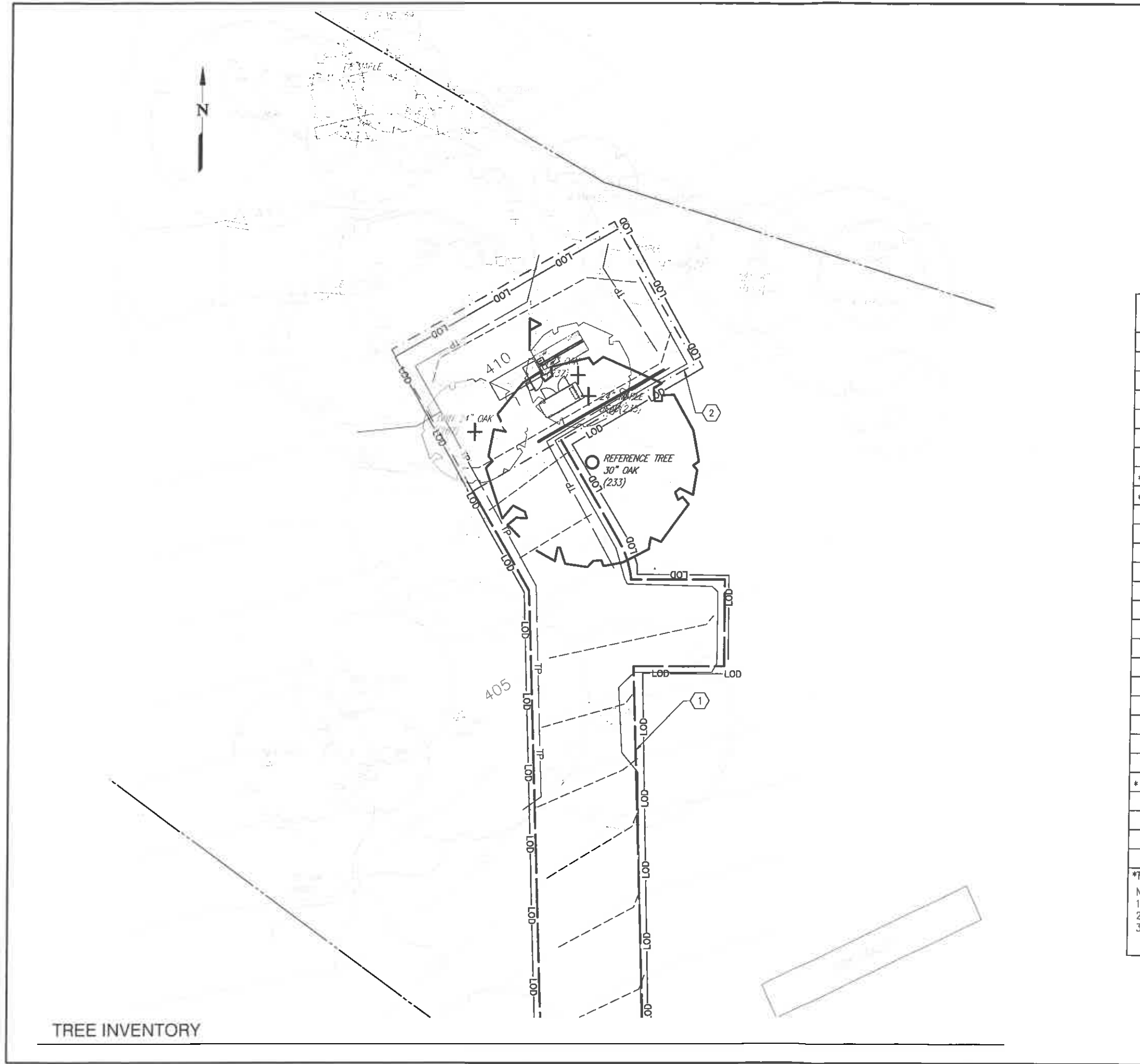
SHEET NAME:

SITE SURVEY

SHEET NO.:

C-1

L:\Projects\5833-446-R\Drawings\DWG\Shadwell\RAWLAND\Site\Site Survey.dwg Thu, 28 Mar 2019 - 10:10am w:clay



TREE INVENTORY

NOTES

- EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING TREES THAT ARE TO REMAIN
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR COMPENSATION OF DAMAGED TREES
- SITE SHALL BE MAINTAINED IN ACCORDANCE WITH A TREE CONSERVATION PLAN TO BE PREPARED BY A CERTIFIED ARBORIST, AS REQUIRED BY SEC. 5.1.40(C)(4)
- TRIM EXISTING BRANCHES THAT ENCR OACH INTO THE FENCED IN COMPOUND AREA.

LEASE NOTES

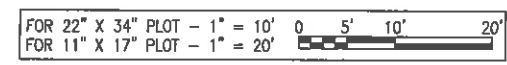
- NEW VERIZON WIRELESS NON-EXCLUSIVE 20' WIDE INGRESS/EGRESS AND UTILITY RIGHT-OF-WAY
- NEW VERIZON WIRELESS 1,600 SQUARE FEET LAND SPACE

TREE INVENTORY

NUMBER	SPECIES	CALIPER	AGL HEIGHT	CANOPY HEIGHT
(162)	TWIN OAK	12"	73'	479' AMSL
(166)	OAK	15"	76'	481' AMSL
(177)	OAK	28"	91'	499' AMSL
(182)	OAK	20"	71'	475' AMSL
(199)	HOLLY	15"	43'	443' AMSL
(233)	OAK	30"	92'	500' AMSL
* (235)	DEAD MAPLE	24"	61'	471' AMSL
* (237)	OAK	12"	51'	461' AMSL
(239)	MAPLE	8"	51'	462' AMSL
(241)	OAK	14"	90'	500' AMSL
(243)	OAK	14"	84'	493' AMSL
(245)	OAK	12"	52'	461' AMSL
(247)	OAK	12"	92'	499' AMSL
(249)	TWIN MAPLE	6"	29'	490' AMSL
(251)	MAPLE	6"	40'	452' AMSL
(253)	TRI. OAK	48"	82'	495' AMSL
(255)	CEDAR	6"	33'	446' AMSL
(257)	PINE	12"	85'	499' AMSL
(259)	PINE	12"	85'	500' AMSL
(261)	TRI. OAK	36"	87'	500' AMSL
(263)	OAK	10"	78'	489' AMSL
(265)	OAK	12"	77'	488' AMSL
* (267)	TWIN OAK	24"	43'	453' AMSL
(269)	OAK	14"	74'	488' AMSL
(273)	OAK	12"	86'	500' AMSL
(275)	MAPLE	8"	56'	470' AMSL
(277)	TWIN ELM	16"	45'	459' AMSL

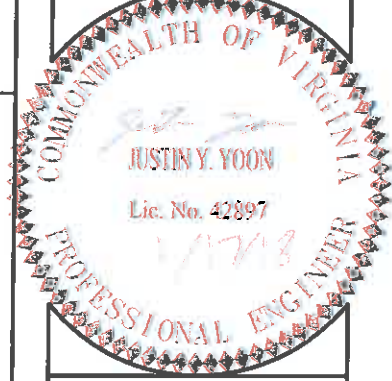
*TOTAL TREES TO BE REMOVED: 3
 NOTES:
 1. REFERENCE TREE IS IDENTIFIED ABOVE IN BOLD.
 2. TREE DRIPLINES ARE DRAWN TO SCALE.
 3. TARGET TREE HEIGHT INFORMATION OBTAINED BY BUCKET TRUCK TREE HEIGHT SURVEY DATED 01/16/16.

GRAPHIC SCALE(S)



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 1831 RADY COURT
 RICHMOND, VA 23222



SITE INFO:
SHADWELL
RAWLAND
 3646 RICHMOND RD
 KESWICK, VA
 22947

ALBEMARLE COUNTY
 DESIGN: JYY
 DRAWN: WMD
 REVIEW: JYY
 TTV DATE: 05/20/16
 COMM. NO. 5833-446

SUBMITTALS

SYMBOL	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENROUTE DRAWINGS REV #0	03/06/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/18

SHEET NAME:
TREE INVENTORY

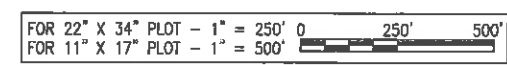
SHEET NO.:
C-1A



CONSTRUCTION NOTES

1. ϕ OF TOWER:
 LATITUDE: N: 38°-00'-31.0482" (NAD 83)
 LONGITUDE: W: 78°-22'-18.5534" (NAD 83)
 ELEVATION: 409.3' (NAVD 88)
2. 2000' RADIUS FROM ϕ OF TOWER
3. EXISTING DWELLING/BUILDING (TYP)

GRAPHIC SCALE(S)



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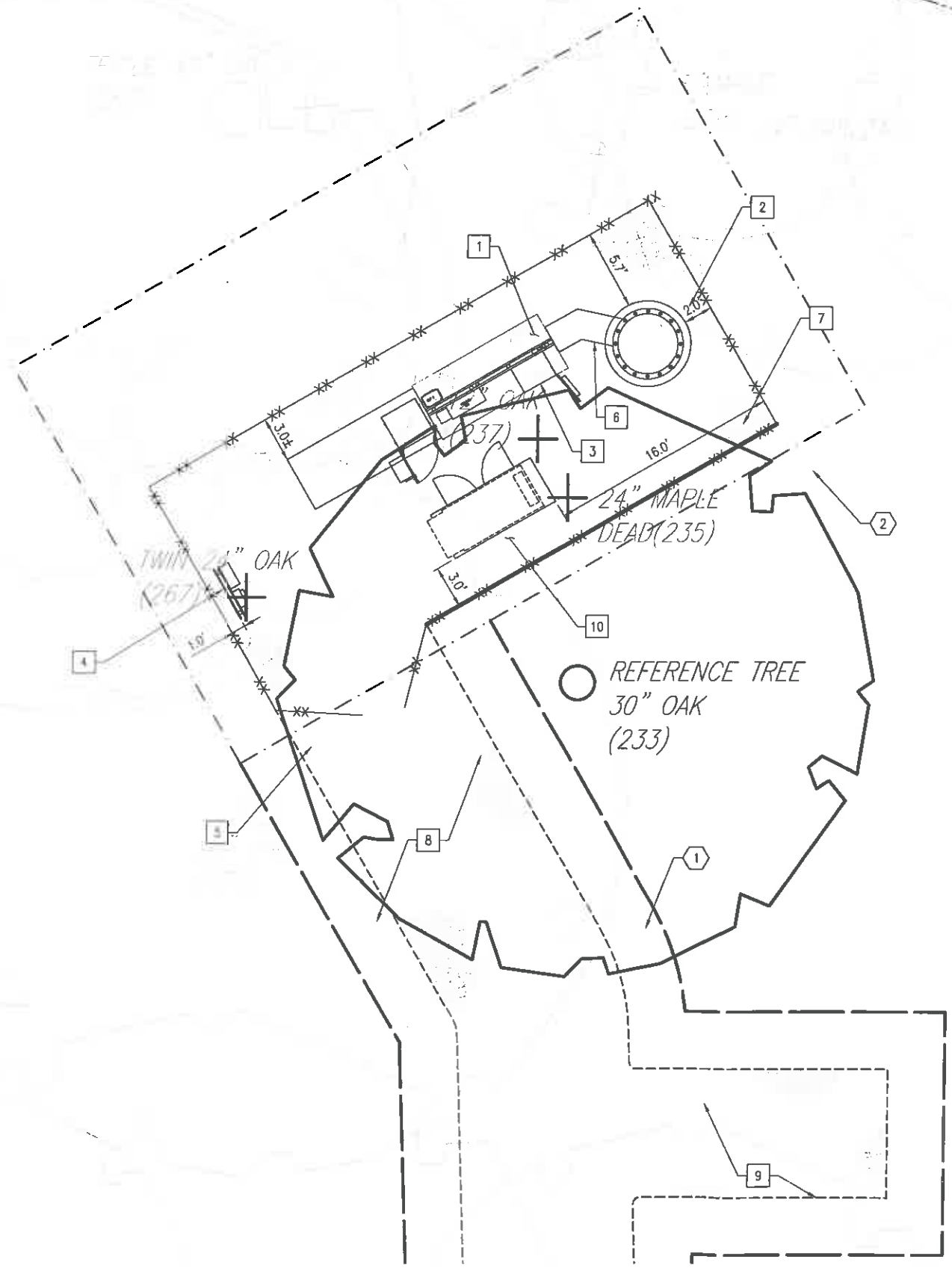
SUBMITTALS		
SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/06/17
3	APPLICATION DRAWINGS REV #0	03/15/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:
AREA MAP

SHEET NO.:
C-1B

Spall checked by JAW on 05/27/2016 10:15am

I:\Projects\5500\5833-VZF MSA\Project\5833-446-VZF-Shadwell-NB\CAD\Sheets\C-C-2.dwg Thu, 28 Mar 2019 - 10:10am wdujley



ENLARGED SITE PLAN

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 811. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK BEFORE LAND DISTURBANCE COMMENCEMENT 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 THE RESPONSIBILITY OF CONTRACTOR TO SEED AND ESTABLISH 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 OR ORDINANCES.
8. THE INDICATED DIRECTION OF NORTH WILL HAVE TO BE VERIFIED IN THE FIELD.

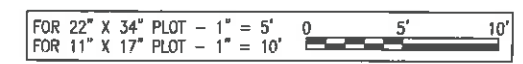
LEASE NOTES

1. NEW VERIZON WIRELESS NON-EXCLUSIVE 20' WIDE INGRESS/EGRESS AND UTILITY RIGHT-OF-WAY
2. NEW VERIZON WIRELESS 1,600 SQUARE FEET LAND SPACE

CONSTRUCTION NOTES

1. NEW VERIZON WIRELESS 10' UTILITY H-FRAME WITH ICE BRIDGE.
2. NEW VERIZON WIRELESS 40' X 18' WOODEN FENCED COMPOUND
3. NEW CHARLES CABINET FOR CENTURY LINK
4. NEW VERIZON H-FRAME WITH METER AND DISCONNECT
5. NEW VERIZON 12' WIDE GATE
6. NEW VERIZON WIRELESS 5'± LF ICE BRIDGE
7. NEW VERIZON WIRELESS COMPOUND GRAVEL
8. NEW VERIZON WIRELESS 12' WIDE GRAVEL ACCESS ROAD
9. NEW VERIZON WIRELESS 9' X 18' VEHICLE PARKING/TURN-AROUND
10. NEW VERIZON WIRELESS 30 KW DIESEL GENERATOR ON 4' X 8' CONCRETE PAD

GRAPHIC SCALE(S)

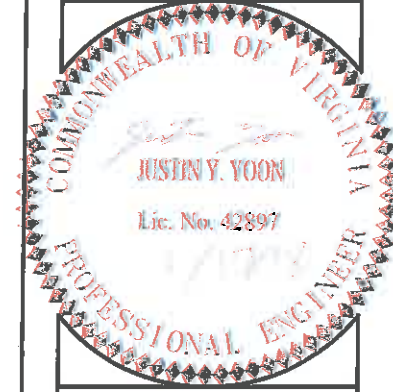


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1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

SHADWELL

RAWLAND

**3646 RICHMOND RD
KESWICK, VA
22947**

ALBEMARLE COUNTY

DESIGN:	WAS
DRAWN:	JAW
REVIEW:	JY
TTV DATE:	05/09/16
COMM. NO.	5833-446

SUBMITTALS		
SYL.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/06/17
3	APPLICATION DRAWINGS REV #0	03/16/17
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7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/18

SHEET NAME:

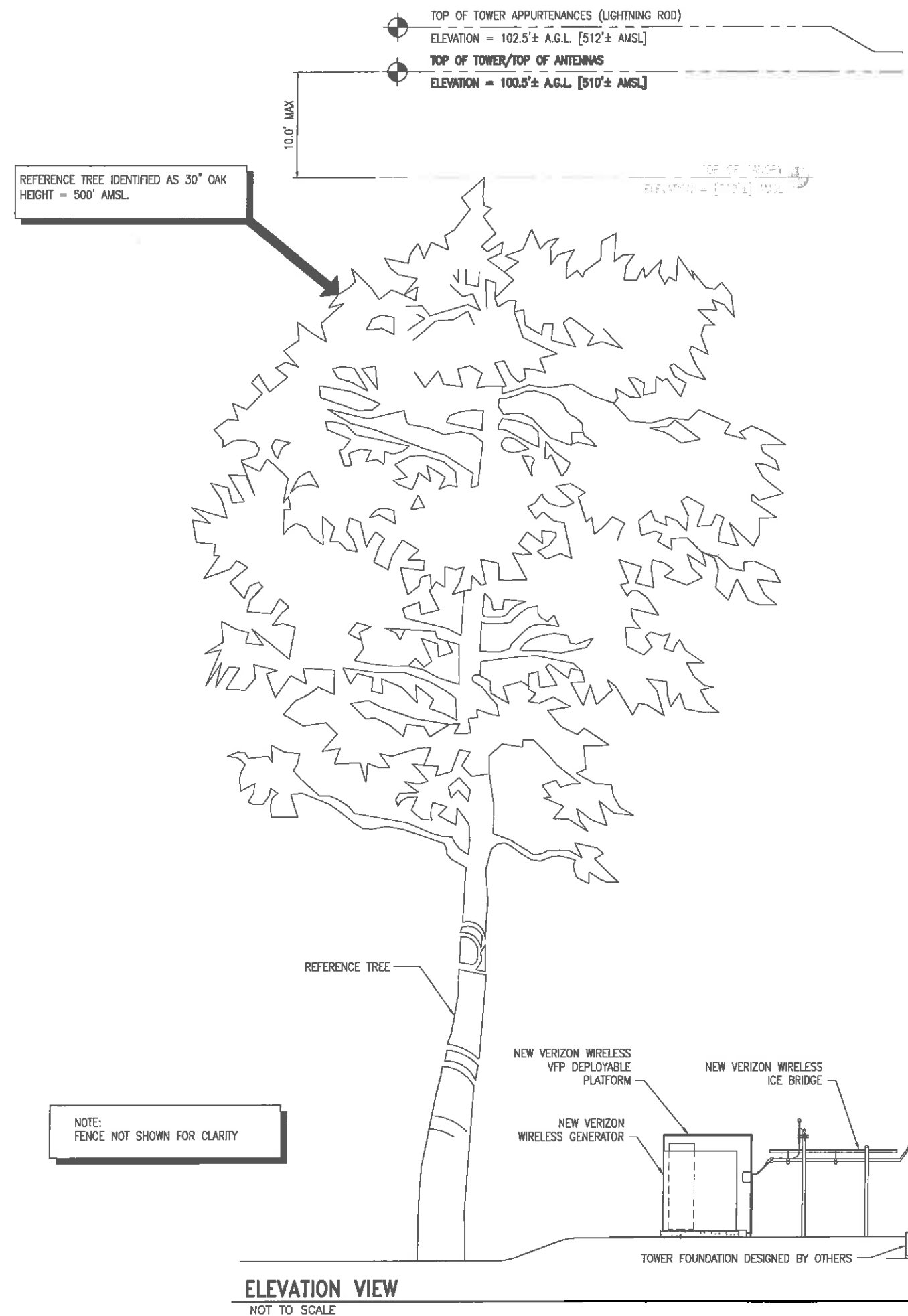
ENLARGED SITE PLAN

SHEET NO.:

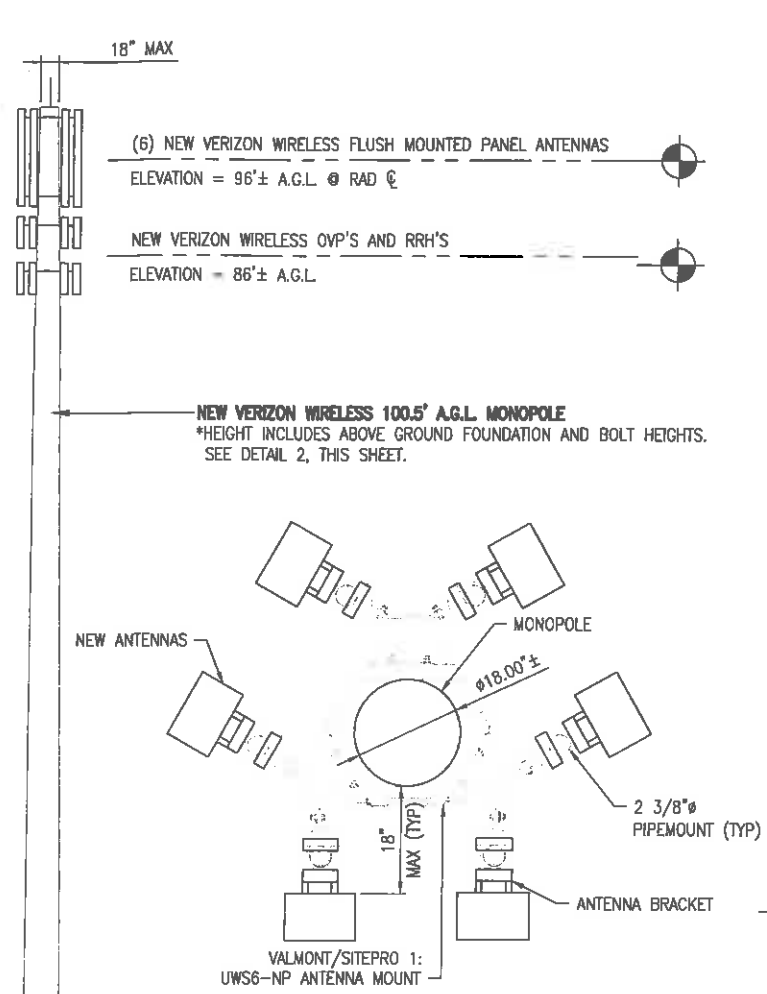
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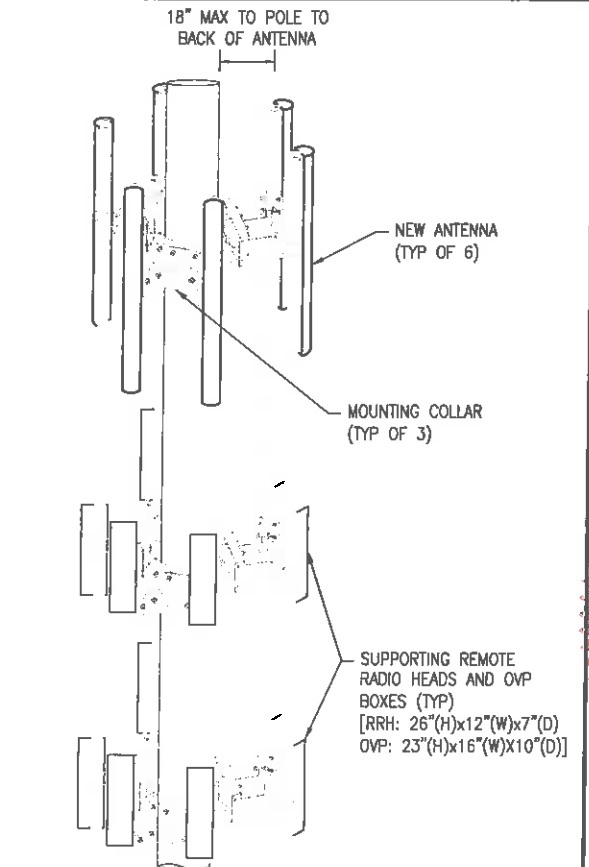
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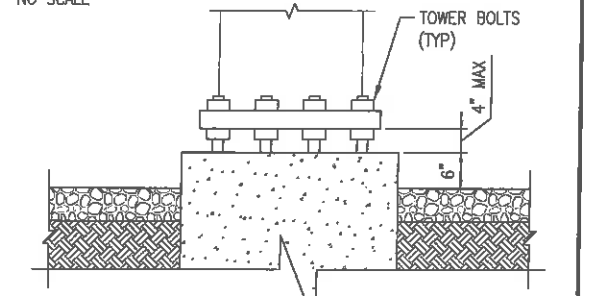
ELEVATION VIEW
NOT TO SCALE



ANTENNA PLAN VIEW (86' RAD CENTER)
NO SCALE



ENLARGED VIEW
NO SCALE



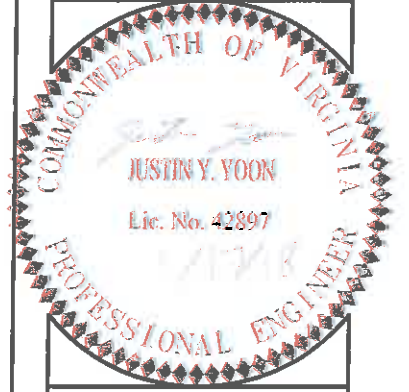
ENLARGED VIEW
NO SCALE

- NOTES**
- NO COMMERCIAL ADVERTISING MATERIAL WILL BE USED IN CONJUNCTION WITH THE NEW TOWER.
 - LIGHTNING ROD WILL NOT EXCEED 2' ABOVE THE TOWER AND WILL BE 1" DIAMETER
 - MONOPOLE, ANTENNAS, MOUNTS AND ALL NEW GROUND EQUIPMENT WILL BE PAINTED TO COUNTY APPROVED COLOR, SHERWIN WILLIAMS (#6090) JAVA BROWN
 - NO POINT ON THE BACK OF THE ANTENNA SHALL BE MORE THAN 18 INCHES FROM THE FACE OF THE MONOPOLE, AS DETAILED IN THE ANTENNA PLAN VIEW PROVIDED ON THIS SHEET
 - ALL VERTICAL CABLES, WIRES, AND SIMILAR ATTACHMENTS SHALL BE RUN VERTICALLY WITHIN THE MONOPOLE'S STRUCTURE

- ANTENNA NOTES**
- ANTENNAS WILL BE INSTALLED USING A MODIFIED FLUSH-DESIGN WITH LOW-PROFILE MOUNTING BRACKETS.
 - FINAL MOUNTING DESIGN MAY VARY SLIGHTLY DEPENDING ON AVAILABILITY AND SPECIFIC MANUFACTURER.
 - PROPOSED ANTENNAS - COMMSCOPE JAHH-65C-R3B DIMENSIONS - 95.7"(H) X 13.8"(W) X 8.2"(D)

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SITE INFO:
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RAWLAND
3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY
DESIGN: JYY
DRAWN: WMD
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TTV DATE: 05/20/16
COMM. NO. 5833-446

SUBMITTALS

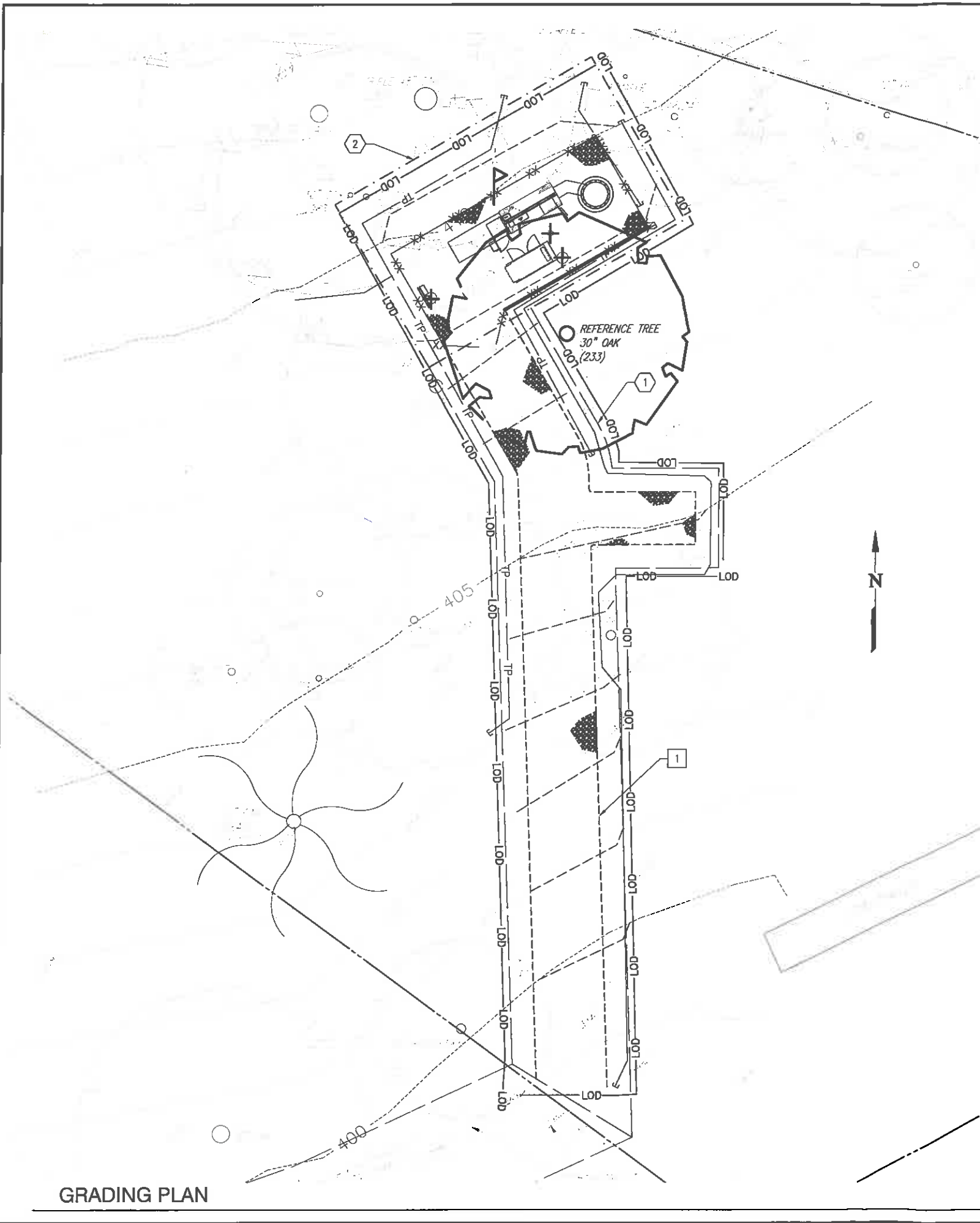
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1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/05/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
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7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:
ELEVATION VIEW

SHEET NO.:
C-3

Sheet checked by JYW on 02/19/2015 02:46pm

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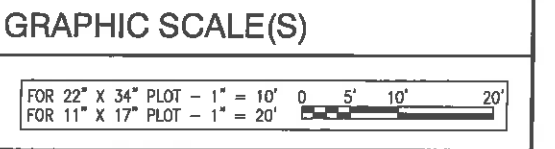


- ### # LEASE NOTES
1. NEW VERIZON WIRELESS 20' INGRESS/EGRESS AND UTILITY RIGHT-OF-WAY
 2. NEW VERIZON WIRELESS 1600 SF LAND SPACE
- ### # CONSTRUCTION NOTES
1. NEW VERIZON WIRELESS 12' WIDE GRAVEL ACCESS ROAD

- ### EROSION AND SEDIMENT CONTROL NOTES
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 (9VAC25-840).
 2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
 3. THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING AND THE EARLY APPLICATION OF GRAVEL BASE MATERIAL ON AREAS TO BE PAVED.
 4. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES EVERY 2 WEEKS AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
 5. THE CONTRACTOR SHALL LIMIT SITE ACCESS BY CONSTRUCTION VEHICLES TO ENTRANCES PROTECTED BY A STONE CONSTRUCTION ENTRANCE (VESCH STD. & SPEC. 3.02) OR AN APPROVED COMPARABLE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS ON A DAILY BASIS.
 6. NO STOCK PILES OF SOIL ALLOWED ON SITE.
 7. THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST INCLUDING (BUT NOT LIMITED TO) USE OF WATER, MULCH OR CHEMICAL DUST ADHESIVES AND CONTROL OF CONSTRUCTION SITE TRAFFIC.
 8. EFFLUENT FROM DE-WATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND CHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS OR THE STORM DRAINAGE SYSTEM.
 9. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE PLAN APPROVING AUTHORITY.
 10. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDED.

E & S LEGEND

	DIRECTION OF OVERLAND FLOW
	SILT FENCE
	PERMANENT SEEDING
	GRASS SWALE CENTERLINE
	LIMITS OF DISTURBANCE
	SLOPE PERCENTAGE
	SPOT ELEVATION
	TREE PROTECTION
	NEW GRADING LINE

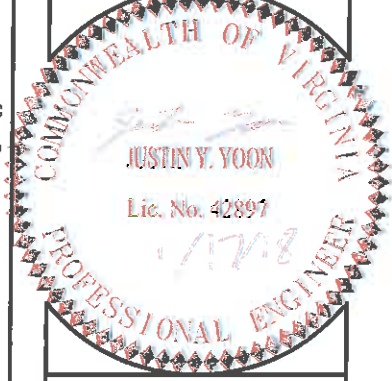


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SITE INFO:

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RAWLAND

3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY

DESIGN: JYY
DRAWN: WMD
REVIEW: JYY
TTV DATE: 05/06/16
COMM. NO. 5833-446

SUBMITTALS

SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/06/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
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7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

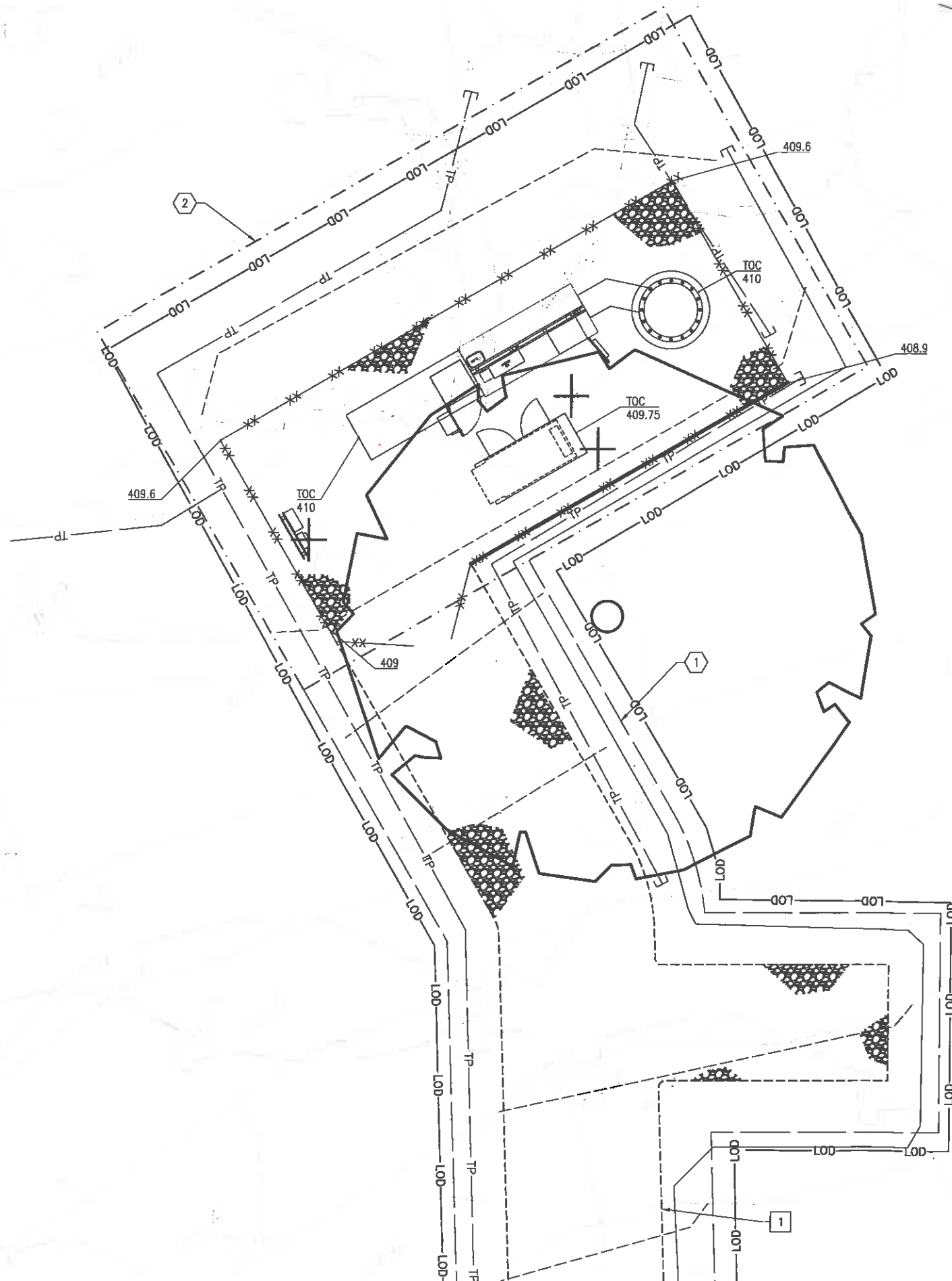
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GRADING PLAN

SHEET NO.:

C-4

GRADING PLAN



- LEASE NOTES**
- NEW VERIZON WIRELESS 20' INGRESS/EGRESS AND UTILITY RIGHT-OF-WAY
 - NEW VERIZON WIRELESS 1600 SF LAND SPACE
- CONSTRUCTION NOTES**
- NEW VERIZON WIRELESS 12' WIDE GRAVEL ACCESS ROAD

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DRAWN: -
REVIEW: -
TTY DATE: 05/08/16
COMM. NO. 5833-446

SUBMITTALS

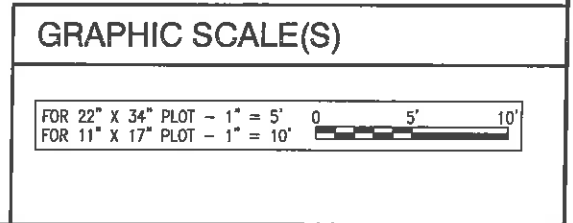
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SHEET NAME:

ENLARGED GRADING PLAN

SHEET NO.:

C-4A

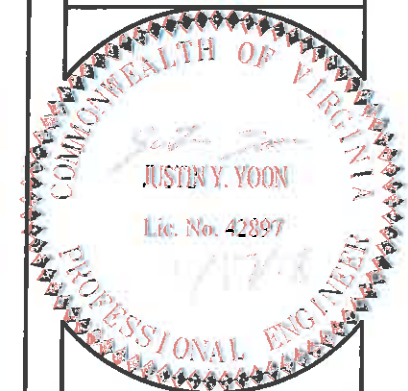


ENLARGED GRADING PLAN

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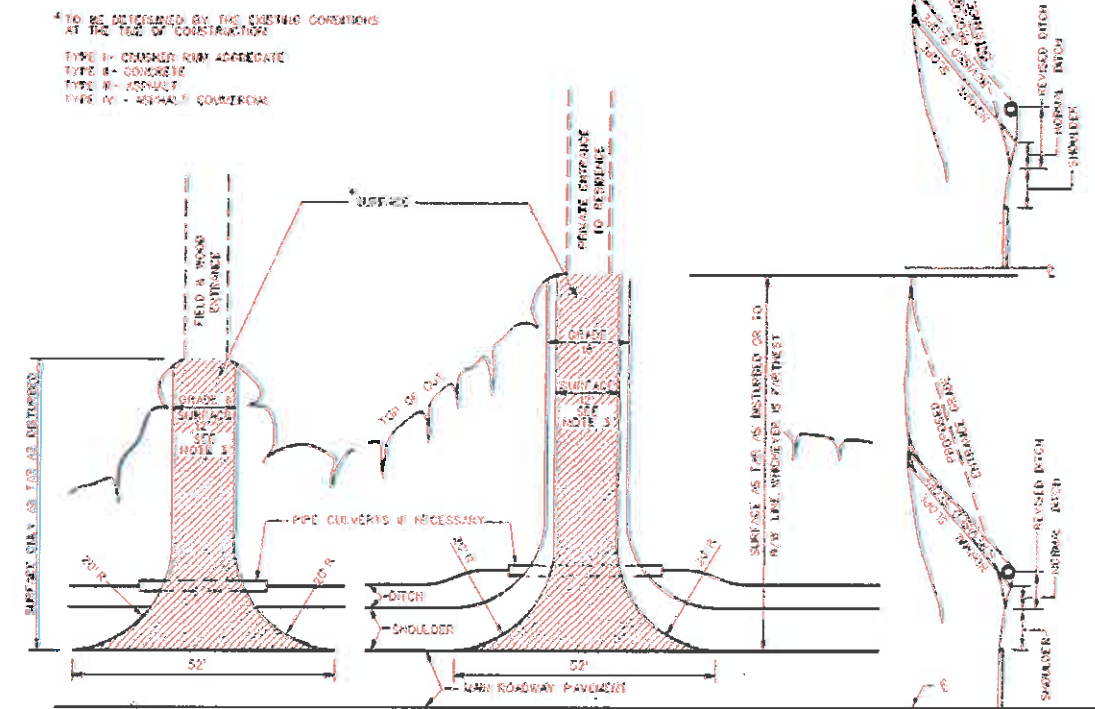
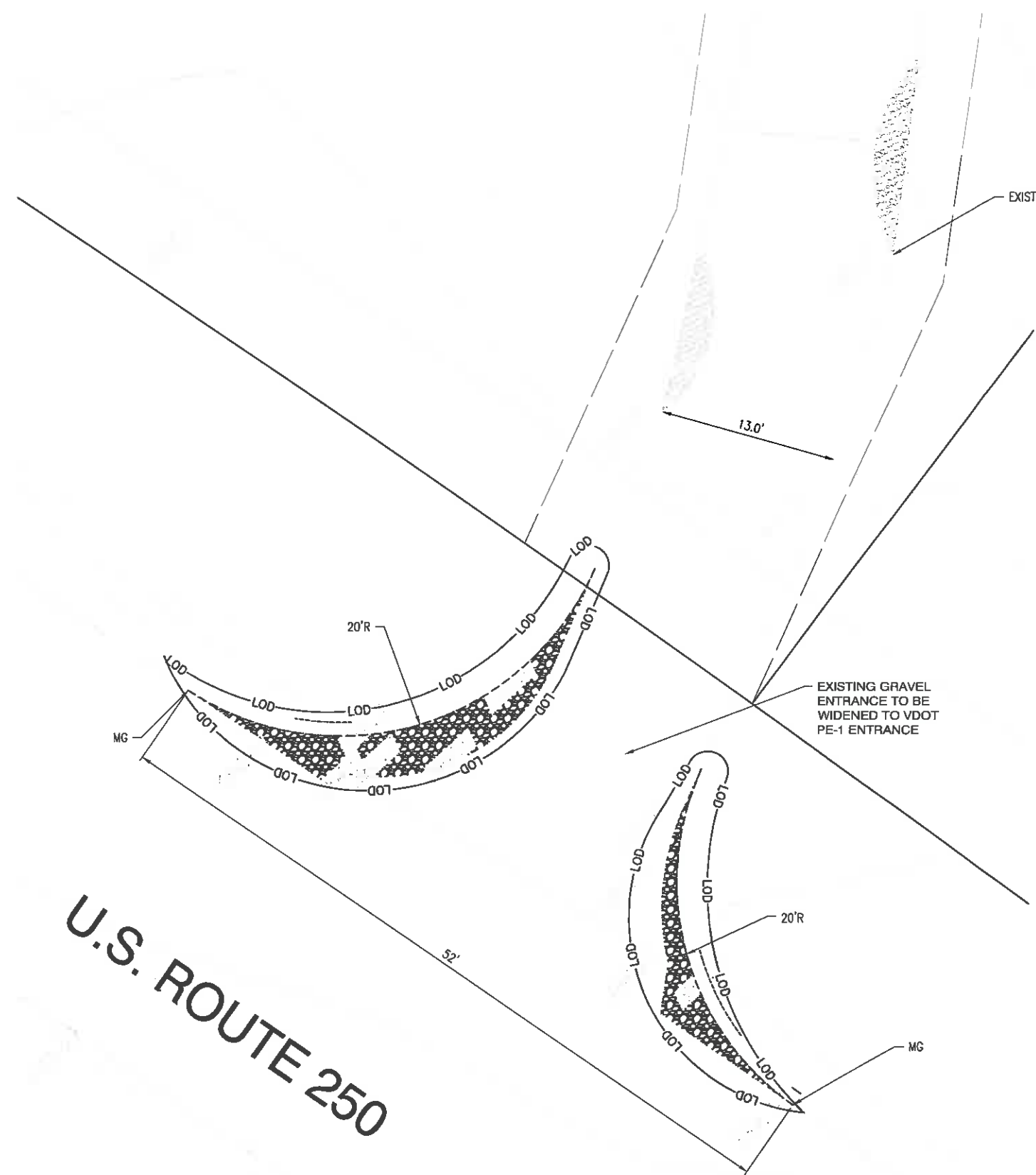
SITE INFO:
SHADWELL
RAWLAND
 3646 RICHMOND RD
 KESWICK, VA
 22947
ALBEMARLE COUNTY

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8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:
**ENLARGED
 GRADING PLAN
 AND ENTRANCE
 PLAN**

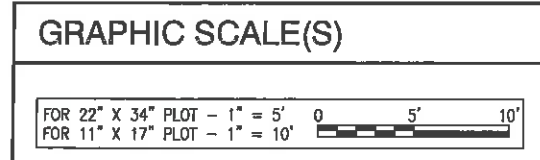
SHEET NO.:
C-4B



- NOTES:
1. ALL DRAINAGE GRADES SHALL START BACK OF THE SHOULDER LINE. IF DRAINAGE IS NECESSARY, THE DITCH MAY BE MOVED BACK TO PROVIDE AT LEAST 6" OF COVER OVER PIPE, AS SHOWN IN THE ALTERNATE METHODS FOR PLACING PIPE UNDER ENTRANCES DIAGRAM.
 2. ENTRANCE GRADES ARE TO BE SMOOTHLY TIED INTO THE ROADWAY BY ROUNDING AS NECESSARY.
 3. DITCH EASINGS WITH WHICHEVER IS GREATER.
 4. LENGTHS OF CULVERTS SHOWN ON ROAD PLANS FOR ENTRANCES ARE APPROXIMATE AND SHALL BE ADJUSTED TO OBTAIN ABOVE ROADWAY WIDTHS.
 5. ENTRANCES BY FALL TO BE SAME AS ABOVE EXCEPT LOCATION OF CULVERT (WHEN NECESSARY).

**VDOT PE-1 PRIVATE ENTRANCE AND LOW VOLUME
 COMMERCIAL ENTRANCE DETAIL**
 NO SCALE

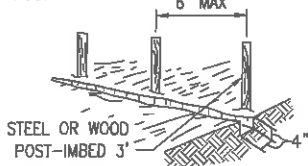
GRADING OF THE ROADSIDE
 DITCHES SHALL BE PERFORMED
 AS DIRECTED TO OBTAIN POSITIVE
 DRAINAGE.



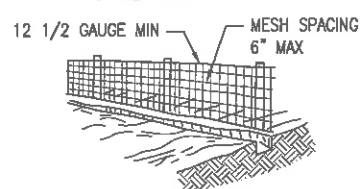
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Sheet checked by JMW on 02/19/2015 4:22pm

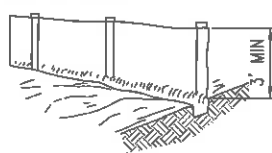
1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



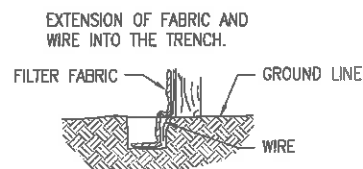
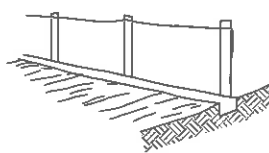
2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



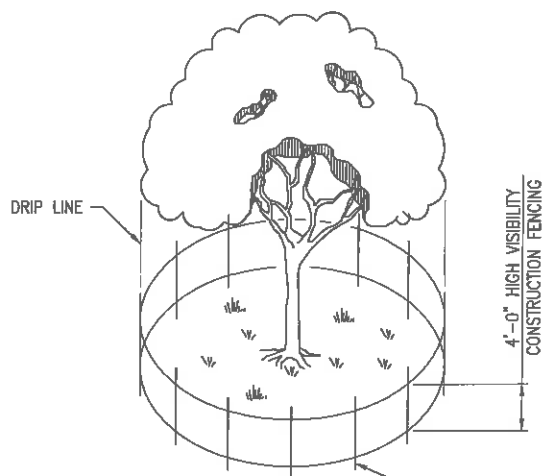
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



TEMPORARY SILT FENCE

NO SCALE

SF



NOTES:

- DRIVE STAKES FIRMLY INTO GROUND AT LEAST 12"
- REFER TO STD & SPEC 3.38 (VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, DCR 1992)
- PROTECTED TREES SHALL BE FIELD IDENTIFIED PRIOR TO LAND DISTURBING ACTIVITIES AND PROTECTION DEVICES WILL BE INSTALLED AROUND SPECIFIC TREES AND IN OTHER LOCATIONS AS SHOWN ON THE PLANS.
- TREE PROTECTION DEVICES SHOULD EFFECTIVELY PROTECT THE ROOTS, TRUNK, AND TOPS OF TREES FROM DAMAGE AND MAY INCLUDE PRODUCTS SUCH AS SNOW FENCE, BOARD FENCE, OR OTHER TYPE OF PLASTIC FENCING. THE LOCATION OF PROTECTION FENCING IS GENERALLY AROUND THE PERIMETER OF THE TREE FOLLOWING THE DRIP EDGE, OR CANOPY LINE OF THE TREE.
- FENCING SHALL BE MAINTAINED DURING CONSTRUCTION AND REMOVED BY THE CONTRACTOR ONCE THE SITE CONSTRUCTION WORK HAS BEEN COMPLETED.
- TREES TARGETED FOR PROTECTION WHICH ARE ACCIDENTALLY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED UNDER MAINTENANCE (SECTION 14b) OF THE STANDARD & SPECIFICATION 3.38.

TREE PROTECTION

NO SCALE

TP

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1-Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50-100 (lbs/acre)
Feb. 16-Apr. 30	Annual Ryegrass (lolium multi-florum)	60-100 (lbs/acre)
May. 1-Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 FERTILIZER at a rate 450 lbs./acre (or 10 lbs./1,000sq ft)
 - Apply PULVERIZED AGRICULTURAL LIMESTONE at a rate of 2 tons/acre (or 90 lbs./1,000 sq ft)
- NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
 - Incorporate the lime and fertilizer into the top 4-6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.html#pubs>

TABLE 3.32-E
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

SEED		
LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass	0-5%
	TOTAL:	175-200 lbs
High-Maintenance Lawn	Tall Fescue	TOTAL: 200-250 lbs
General Slope (3:1 or less)	Tall Fescue	128 lbs
	Red Top Grass or Creeping Red Fescue	2 lbs
	Seasonal Nurse Crop	20 lbs
	Total:	150 lbs
LOW-Maintenance Slope (Steeper Than 3:1)	Tall Fescue	108 lbs
	Red Top Grass or Creeping Red Fescue	2 lbs
	Seasonal Nurse Crop	20 lbs
	Total:	150 lbs

- When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCI) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCI. A current turfgrass variety list is available at the local County Extension office or through VCI at 804-746-4884 or at <http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2/html>
- Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16th - April.....	Annual Rye
May 1st - August 15th.....	Foxtail Millet
August 16th - October.....	Annual Rye
November - February 15th.....	Winter Rye
- Substitute Sericea Lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase to 30 lbs/acre. If weeping lovegrass is used, including in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs./acre (or 12 lbs./1,000 sq. ft.)
 - Apply Pulverized Agricultural Limestone to a rate of 2 tons/acre (or 90 lbs./1,000 sq. ft.)
- NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of the site.
 - Incorporate the lime and fertilizer into the top 4-6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.html#pubs>

EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE

PRE-CONSTRUCTION PHASE:

- CONDUCT A PRE-CONSTRUCTION MEETING BEFORE LAND-DISTURBING ACTIVITIES ARE INITIATED.
- FIELD SURVEY THE LIMITS OF DISTURBANCE.
- CLEARLY DESIGNATE AND PROTECT AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS BUFFER ZONES.
- INSTALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE).
- INSTALL TREE PROTECTION AS SHOWN ON PLAN.

NOTES:

- THE PRE-CONSTRUCTION MEETING SHOULD DISCUSS THE ESC MEASURES, METHODS OF INSTALLATION, SEQUENCE OF OPERATION, MAINTENANCE, AND INSPECTIONS WITH THE ESC INSPECTOR.
- IF CONSTRUCTION DOES NOT COMMENCE FOR 180 DAYS FOLLOWING THE PRE-CONSTRUCTION MEETING, OR IF THE PROJECT IS DORMANT FOR 180 DAYS DURING THE CONSTRUCTION PHASE, A NEW PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO RESTARTING CONSTRUCTION.
- "LAND DISTURBING ACTIVITIES" INCLUDE ALL MAN-MADE CHANGE TO THE LAND SURFACE THAT POTENTIALLY CHANGES ITS RUNOFF CHARACTERISTICS INCLUDING CLEARING, GRADING OR EXCAVATION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (1992).

CONSTRUCTION PHASE:

- PERFORM SITE CLEARING TO THE LIMITS SHOWN ON THE PLANS.
- ROUGH GRADE THE SITE.
- INSTALL PERMANENT SEED, MULCH AND FERTILIZER OVER OTHER AREAS NOT RECEIVING GRAVEL.
- COMPLETE FINAL GRADING.
- INSTALL BELOW-GROUND UTILITIES.
- PLACE GRAVEL OVER DRIVEWAY AND IN THE COMPOUND AREA.
- ENSURE THAT ALL DISTURBED, BARE-SOIL AREAS ARE STABILIZED WITH EITHER GRAVEL OR SEEDING TO ESTABLISH VEGETATION.
- INSTALL WOOD FENCING.
- INSTALL WIRELESS COMPONENTS: STRUCTURAL, MONOPOLE (BY OTHERS), SHELTER, ELECTRICAL ETC.

NOTES:

- FOLLOWING APPROVAL OF THE ESC MEASURES BY THE ESC INSPECTOR, CLEAR ONLY THE LIMITS OF DISTURBANCE. NO ONSITE DISPOSAL OF TREES, BRUSH OR OTHER DEBRIS IS PERMITTED.
- IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED, INSTALL SEED, MULCH, AND FERTILIZER TO ESTABLISH PERMANENT VEGETATION.

ONGOING ACTIVITIES:

- PERFORM ESC INSPECTION ACTIVITIES BY QUALIFIED PROFESSIONAL AS REQUIRED.
- PERFORM MAINTENANCE OF ESC'S INCLUDING: SILT FENCE, TREE PROTECTION & SEEDED AREAS AS REQUIRED.
- MITIGATE AREAS OF CONCENTRATED RUNOFF THAT COULD POTENTIALLY CAUSE EROSION, IF ENCOUNTERED.
- INSTALL ADDITIONAL ESC MEASURES, IF NECESSARY TO PREVENT DISCHARGE OF SEDIMENT TO OFFSITE AREAS.
- DISPOSE EXCAVATED MATERIAL OFFSITE.

NOTES:

- STAGING AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE IS NOT PERMITTED.
 - INSTALL SILT FENCE AT 10' LATERALLY FROM THE TOE OF SLOPE AROUND ALL STOCKPILES.
 - DISPOSAL OF EXCAVATED MATERIAL OUTSIDE OF THE LIMITS OF DISTURBANCE IS NOT PERMITTED.
- SITE RESTORATION ACTIVITIES:

- COMPLETE FINAL SITE RESTORATION WORK AND VERIFY THAT FINAL STABILIZATION (PERMANENT VEGETATION OR GRAVEL) IS ACHIEVED OVER PREVIOUSLY-DISTURBED AREAS.
- PERFORM PRE-FINAL SITE INSPECTION PRIOR TO REMOVING TEMPORARY ESC MEASURES.
- FOLLOWING APPROVAL, REMOVE TEMPORARY ESC MEASURES (SILT FENCE, TREE PROTECTION, ETC) AND DISPOSE OF ALL MATERIAL OFFSITE.
- FOLLOWING SITE RESTORATION, THE ESC INSPECTOR SHALL PERFORM A FINAL SITE INSPECTION.

NOTES:

- PERMANENT VEGETATION IS CONSIDERED ESTABLISHED IF A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONLY AFTER CONSTRUCTION HAS BEEN COMPLETED, FINAL STABILIZATION HAS BEEN ACHIEVED, AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DETERMINED TO BE FUNCTIONING CORRECTLY AS APPROVED BY THE ESC INSPECTOR.

MAINTENANCE INSTRUCTIONS

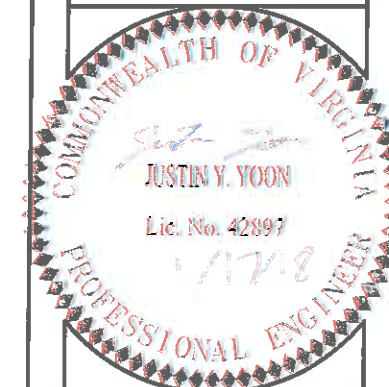
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. THE INSPECTOR WILL EVALUATE THAT EACH MEASURE IS CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VESCH HANDBOOK. A SUMMARY OF THE INSPECTION ITEMS INCLUDE THE FOLLOWING:
 - SILT FENCE SHALL BE INSPECTED FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER TO REDUCE PRESSURE ON THE FENCE AND ALLOW ENOUGH SPACE FOR ACCUMULATION FROM FUTURE RAINFALLS.
 - TREE PROTECTION DEVICES SHALL BE INSPECTED FOR DAMAGE OR MISSING COMPONENTS. REPAIRS SHALL BE MADE OR ADDITIONAL FENCING INSTALLED IF NECESSARY. DAMAGED TREES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROCEDURES IN THE EROSION AND SEDIMENT CONTROL MANUAL.
 - REAPPLY SEED, MULCH AND FERTILIZER IN AREAS WHERE TEMPORARY SEEDING SEEDLING EMERGENCE IS POOR OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW THE AREAS WHERE TEMPORARY SEEDING IS PRESENT, AND PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.
- PERMANENT SEEDING SHALL BE INSPECTED FOR FAILURE AND REPAIRS SHALL BE MADE WITHIN THE SAME PLANTING SEASON, IF POSSIBLE. 16. RE-EVALUATE PLANTING MATERIALS, QUANTITIES OF LIME, AND FERTILIZER IF INADEQUATE COVERAGE IS PRODUCED.

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1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

SHADWELL

RAWLAND

3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY

DESIGN:

DRAWN:

REVIEW:

TTV DATE: 05/04/16

COMM. NO. 5833-446

SUBMITTALS

SYM	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/05/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/18

SHEET NAME:

DETAILS

SHEET NO.:

C-4C

I:\Projects\55001\5833-VZM_MSA\Projects\5833-446-VZM-Shadwell-RAW\Shadwell-C-4C.dwg Thu, 28 Mar 2018 10:11am wduley

Spcl checked by jwh on 02/19/2015 4:21pm

CONSTRUCTION NOTES

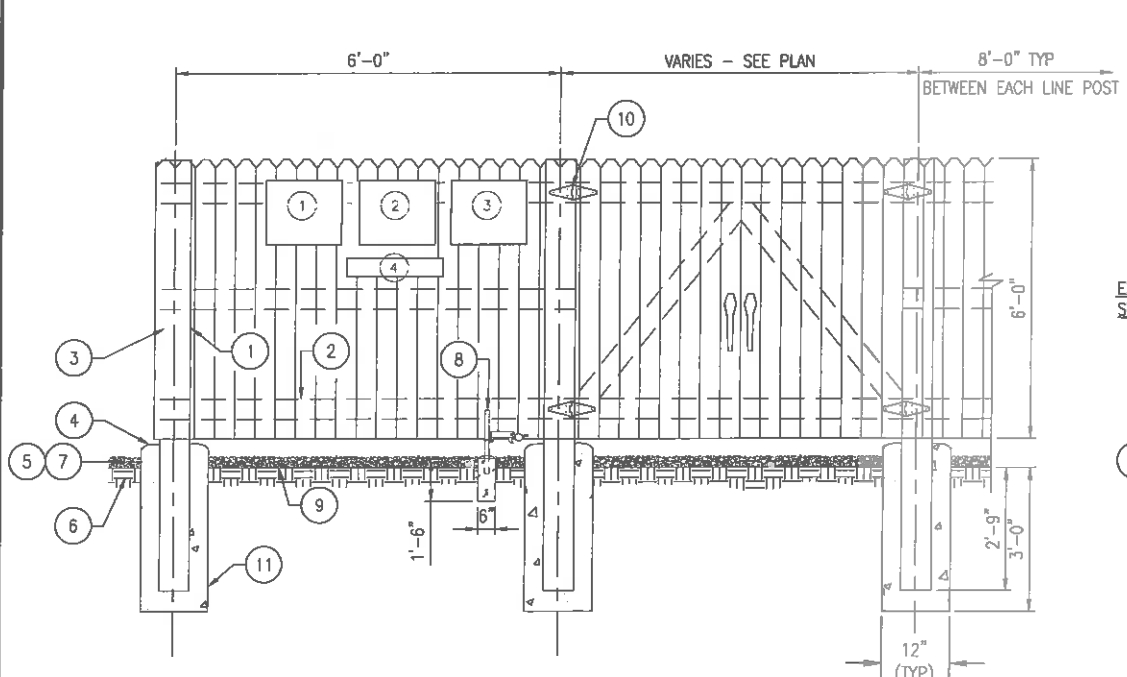
- GATE, CORNER, END OR PULL POST 6" X 6" TREATED LUMBER SPACING FOR LINE POSTS IS 8'-0" @ TO @ MAX
- TOP RAIL & BRACE RAIL: 2" X 4" TREATED LUMBER
- 1" (NOMINAL) X 6" - 8' DOG EARED FENCE BOARDS, CEDAR PREFERRED. #1 TREATED ACCEPTABLE
- 1 1/2" MAXIMUM CLEARANCE FROM GRADE
- 2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK
- 4" COMPACT 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK
- FINISH GRADE SHALL BE UNIFORM AND LEVEL
- DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION. TYPICAL BOTH SIDES OF GATE
- GEOTEXTILE FABRIC
- GATE HARDWARE. MANUFACTURER NOT SPECIFIED AT THIS TIME
- POST: CONCRETE FOUNDATION (4000 PSI)

GENERAL NOTES

- INSTALL FENCING PER ASTM F-567
- INSTALL SWING GATES PER ASTM F- 900
- LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
- USE GALVANIZED (OR BETTER) NUTS, BOLTS AND WASHERS TO MOUNT ALL SIGNS (SECURED THROUGH FENCE BOARDS).

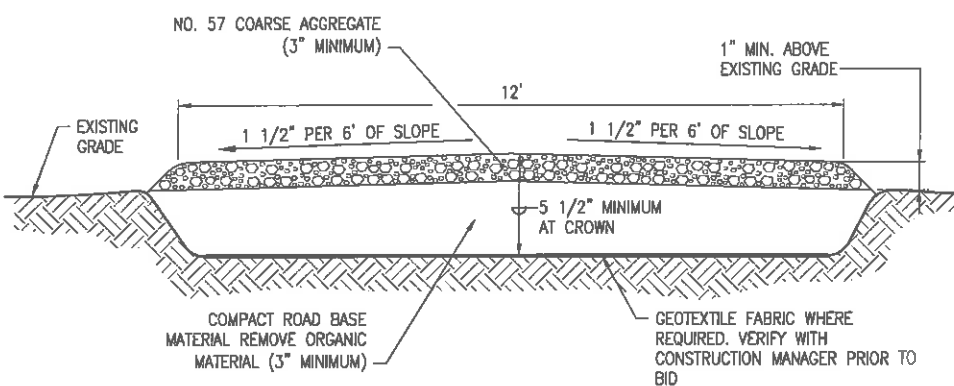
SIGNAGE NOTES

- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE. HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- VERIZON WIRELESS SITE ID SIGN SHALL BE MOUNTED ON OUTDOOR EQUIPMENT AS DIRECTED BY VERIZON WIRELESS CONSTRUCTION MANGER. TWO-SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNIT ADHESIVE SETS.



COMPOUND FENCE DETAIL

NO SCALE

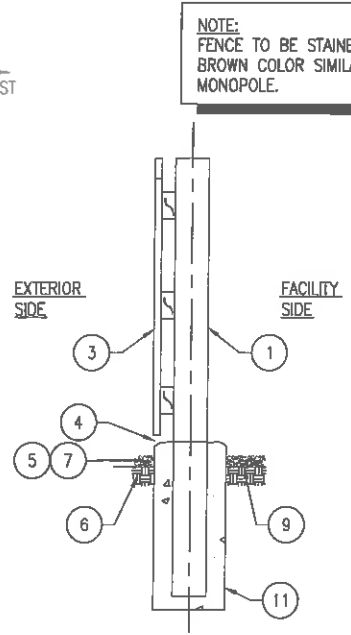


EARTH WORK SUBGRADE COMPACTION & SELECT GRANULAR FILL

- 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 SUBGRADE COMPACTED, GEOTEXTILE FABRIC AS REQUIRED FOR UNSTABLE SOIL CONDITION.
- 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 MINUS 3% OF OPTIMUM MOISTURE CONTENT.

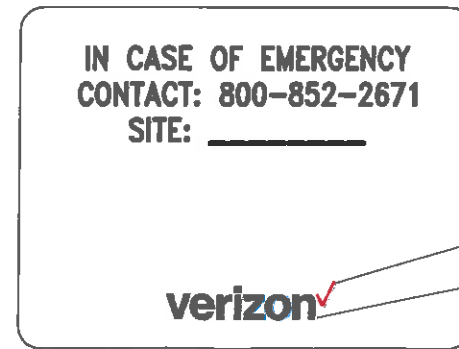
TYPICAL ACCESS ROAD CROSS SECTION

NO SCALE



WHITE BACKGROUND W/RED LETTERING

1 NO-TRESPASSING SIGN
18" HIGH X 24" WIDE (OPERATIONS PROVIDED)



WHITE BACKGROUND W/BLACK LETTERING

WHITE BACKGROUND W/RED LETTERING

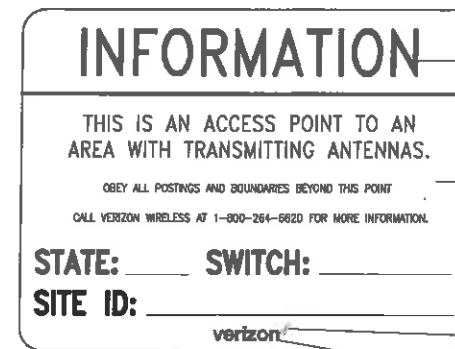
WHITE BACKGROUND W/BLACK LETTERING

2 VERIZON WIRELESS-SITE ID SIGN
18" HIGH X 24" WIDE (OPERATIONS PROVIDED)



WHITE BACKGROUND W/BLACK LETTERING

4 FCC REGISTRATION SIGN



GREEN BACKGROUND W/WHITE LETTERING

WHITE BACKGROUND W/BLACK LETTERING

WHITE BACKGROUND W/RED LETTERING

WHITE BACKGROUND W/BLACK LETTERING

3 INFORMATION SIGN
18" HIGH X 24" WIDE (OPERATIONS PROVIDED)

TYPICAL SIGNS AND SPECIFICATIONS

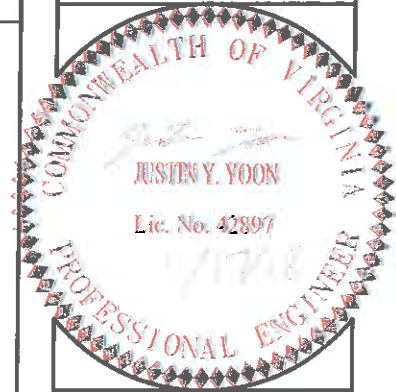
NO SCALE



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1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:

SHADWELL

RAWLAND

3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY

DESIGN:	JYY
DRAWN:	WMD
REVIEW:	JYY
TTV DATE:	05/20/16
COMM. NO.	5833-446

SUBMITTALS

SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/18
2	ENVSITE DRAWINGS REV #0	03/08/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:

FENCE AND SINGAGE

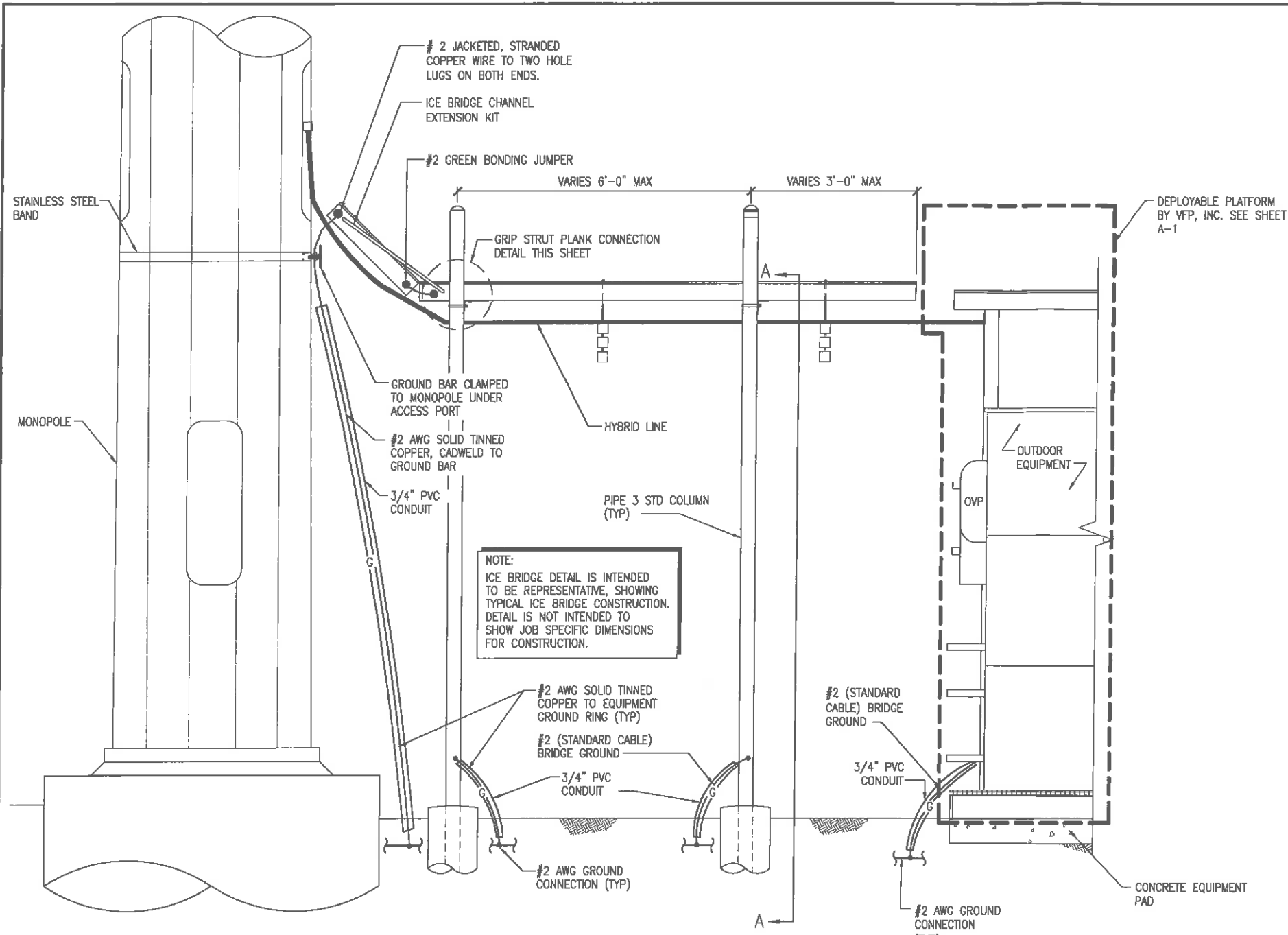
SHEET NO.:

C-5

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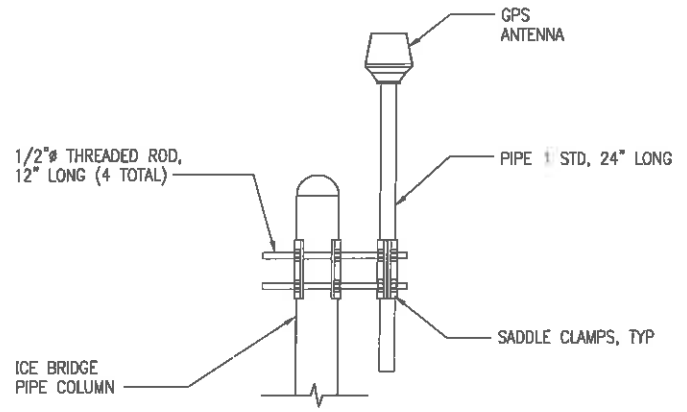
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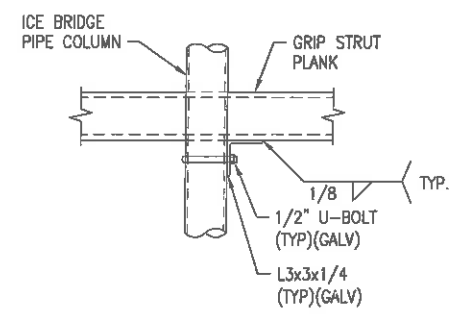


NOTE:
ICE BRIDGE DETAIL IS INTENDED TO BE REPRESENTATIVE, SHOWING TYPICAL ICE BRIDGE CONSTRUCTION. DETAIL IS NOT INTENDED TO SHOW JOB SPECIFIC DIMENSIONS FOR CONSTRUCTION.

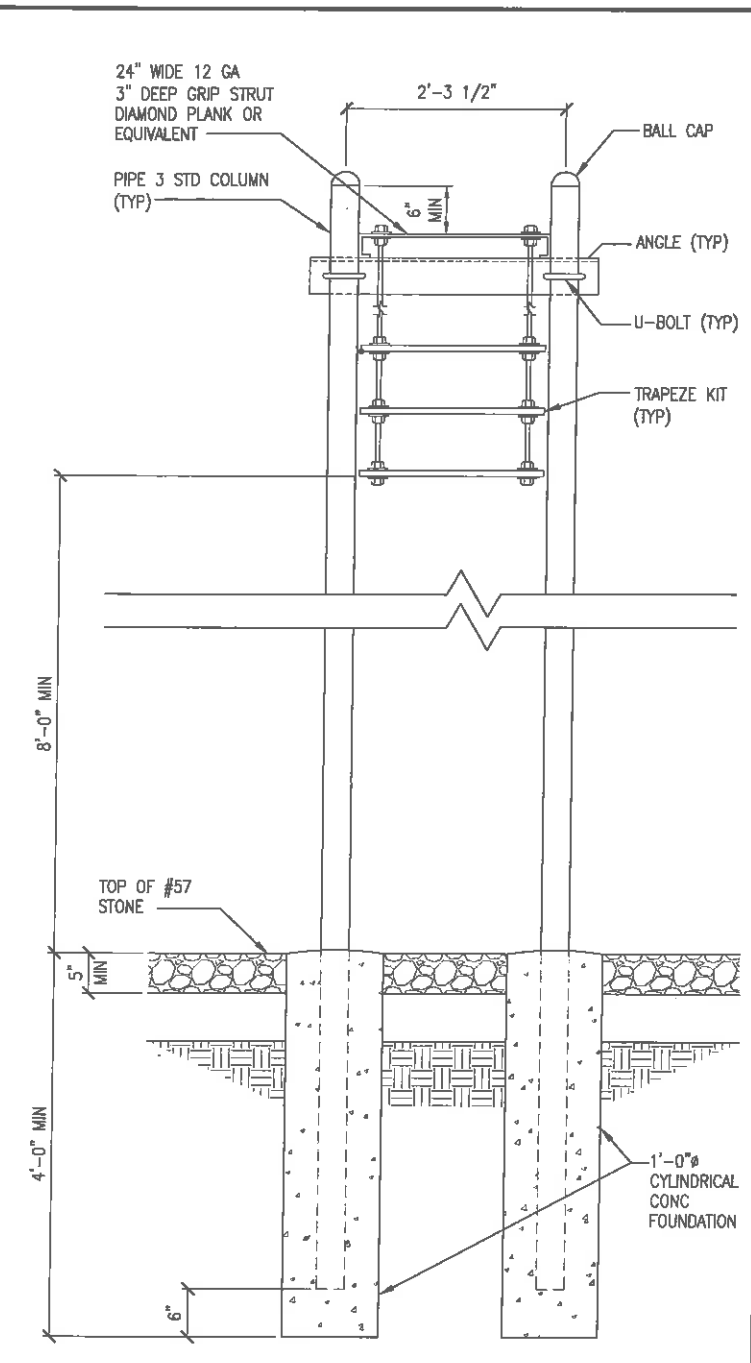
ICE BRIDGE DETAIL
FOR 22" X 34" PLOT - 3/4" = 1'-0"
FOR 11" X 17" PLOT - 3/8" = 1'-0"



GPS ANTENNA MOUNTING BRACKET
FOR 22" X 34" PLOT - 1 1/2" = 1'-0"
FOR 11" X 17" PLOT - 3/4" = 1'-0"



GRIP STRUT PLANK CONNECTION DETAIL
FOR 22" X 34" PLOT - 1 1/2" = 1'-0"
FOR 11" X 17" PLOT - 3/4" = 1'-0"



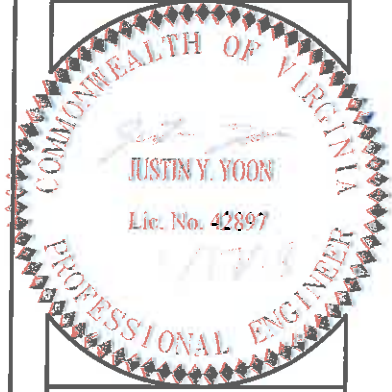
SECTION-ICE BRIDGE A-A
FOR 22" X 34" PLOT - 1" = 1'-0"
FOR 11" X 17" PLOT - 1/2" = 1'-0"

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7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:
ICE BRIDGE DETAILS

SHEET NO.:
C-6

Spell checked by JHK on 11/07/2014 4:24pm

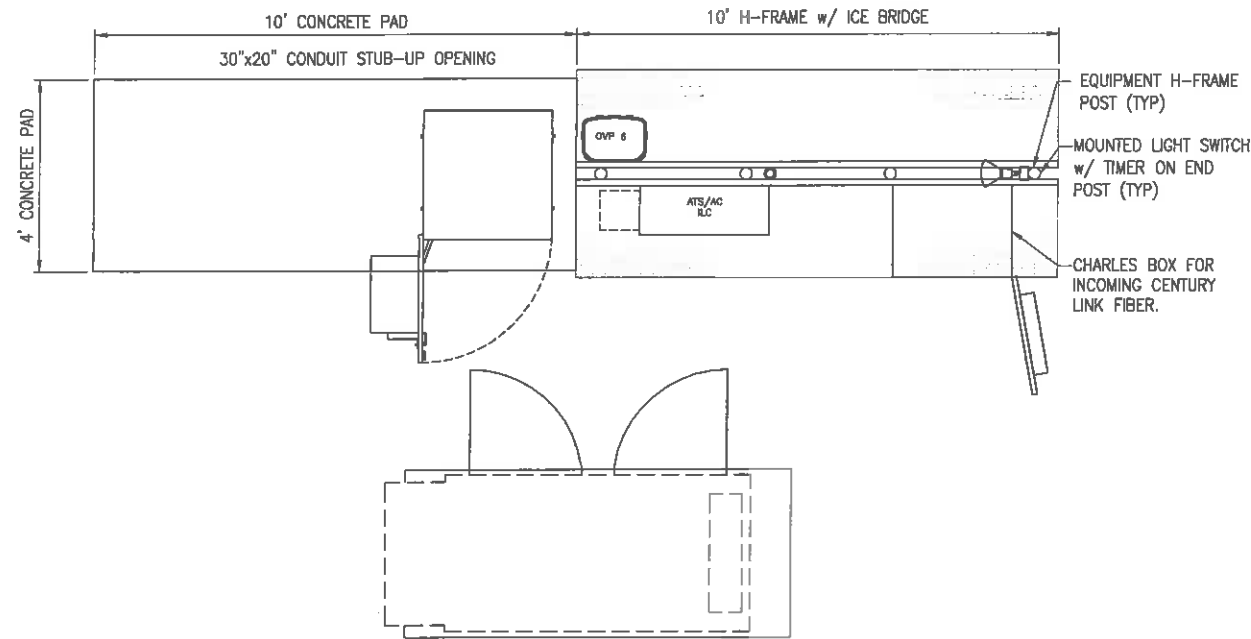
VERIZON WIRELESS EQUIPMENT:

- CHARLES INDUSTRIES CUBE - SS48231PX2 EQUIPMENT WITH BATTERY CABINET
- RAYCAP OVP - 6

CONTRACTOR PROVIDED EQUIPMENT:

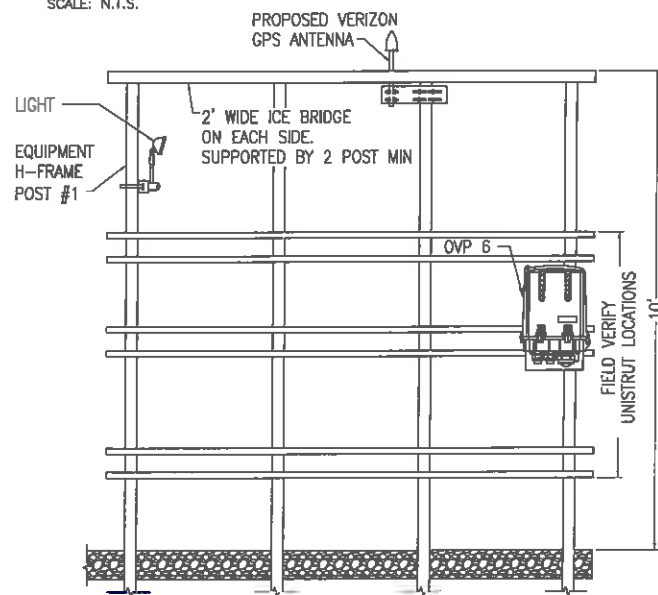
* THIS IS NOT A COMPREHENSIVE LIST. IT SHOULD BE ASSUMED BY THE CONTRACTOR THAT ALL OTHER ITEMS DETAILED IN THIS SET OF DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.

- 18" WIDE X 18" TALL FIBER JUNCTION BOX, NEMA 3R, CABINET ENCLOSURE WITH WOODEN BACKBOARD, PADLOCK LATCH, AND COMBINATION LOCK. (USE FOR DARK FIBER SITES)
- 32" WIDE X 59" TALL X 12" DEEP, ASCO D300L SERIES POWER TRANSFER LOAD CENTER MODEL AA300G-1PH-N-3R - INTEGRATED LOAD CENTER "ILC" WITH COMBINATION PADLOCK.
- 22" WIDE X 26" TALL X 20" DEEP, CHARLES INDUSTRIES CUBE-RL1003C-A WITH HEAT EXCHANGER (120V) WITH TRIPP-LITE UPE PART #SM1500RXL2UTAA INSIDE (ONLY REQUIRED WHEN VZT PROVIDES LIT FIBER. UTILITY COORDINATOR MUST VERIFY IF THIS IS NEEDED)
- COORDINATES ADDITIONAL ENTRY GATE LOCK(S) WITH CONSTRUCTION MANAGER.



EQUIPEMENT LAYOUT PLAN

SCALE: N.T.S.



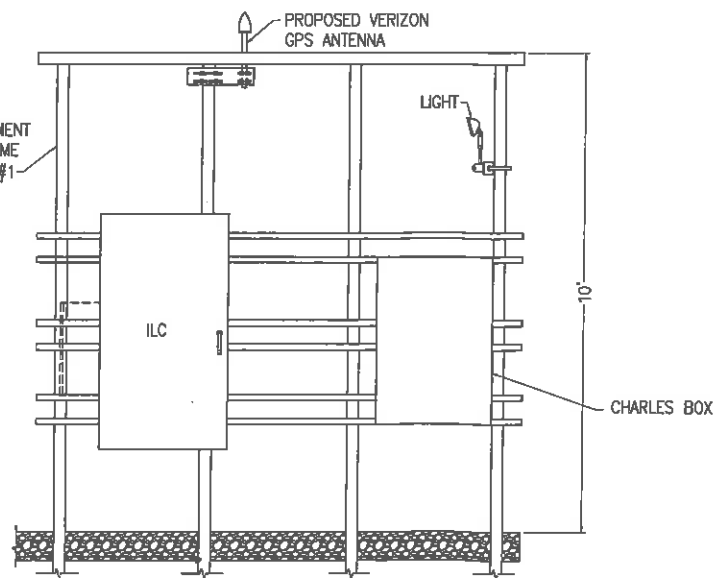
NOTE:

SIDE A

1. SEE CONDUIT CONNECTIONS FOR CABLE/CONDUIT ROUTINGS.

H-FRAME RISER DETAILS

SCALE: N.T.S.



NOTE:

SIDE B

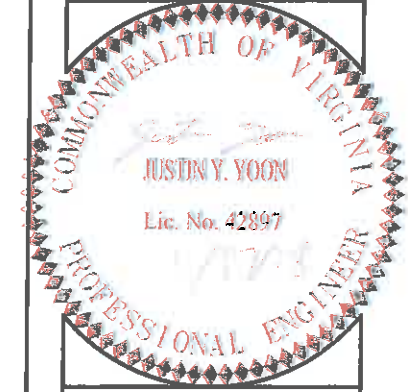
1. SEE CONDUIT CONNECTIONS FOR CABLE/CONDUIT ROUTINGS.

NOTE:

BOTTOM EDGE OF OVP'S SHALL NOT EXCEED 36" ABOVE FINISHED CONCRETE SLAB.

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verizon
 1831 RADY COURT
 RICHMOND, VA 23222



SITE INFO:
 SHADWELL
 RAWLAND
 3646 RICHMOND RD
 KESWICK, VA
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 ALBEMARLE COUNTY

DESIGN: -
 DRAWN: -
 REVIEW: -
 TTV DATE: 05/20/16
 COMM. NO. 5833-446

SUBMITTALS

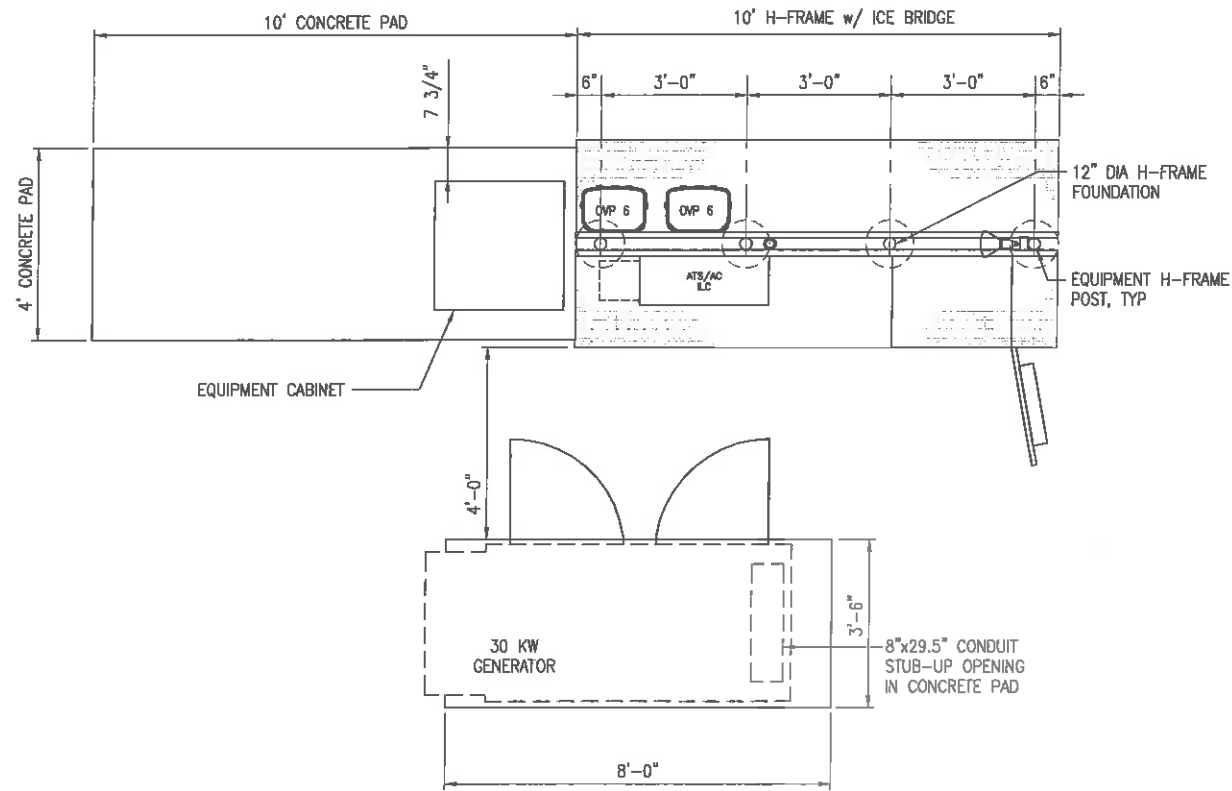
SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/18
2	ENROUTE DRAWINGS REV #0	03/06/17
3	APPLICATION DRAWINGS REV #0	03/18/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/18

SHEET NAME:
EQUIPMENT LAYOUT AND NOTES

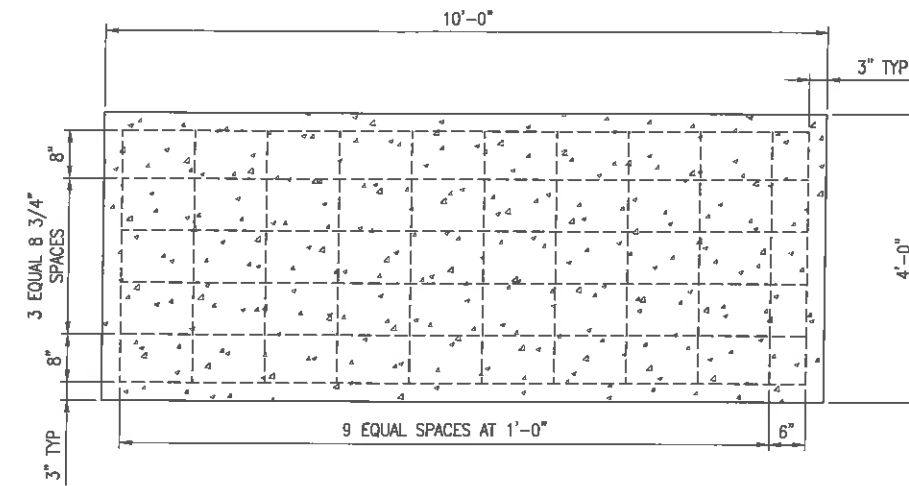
SHEET NO.:
C-7

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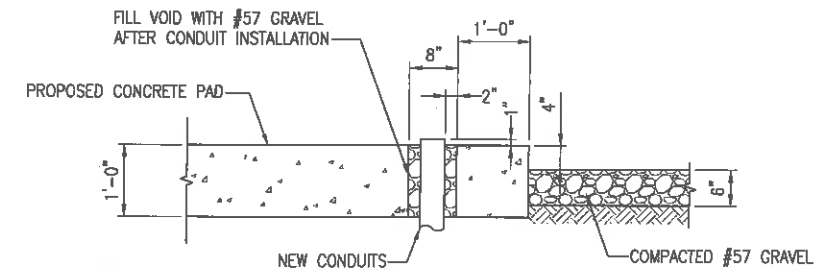
Spall checked by JAW on 11/07/2014 4:23pm



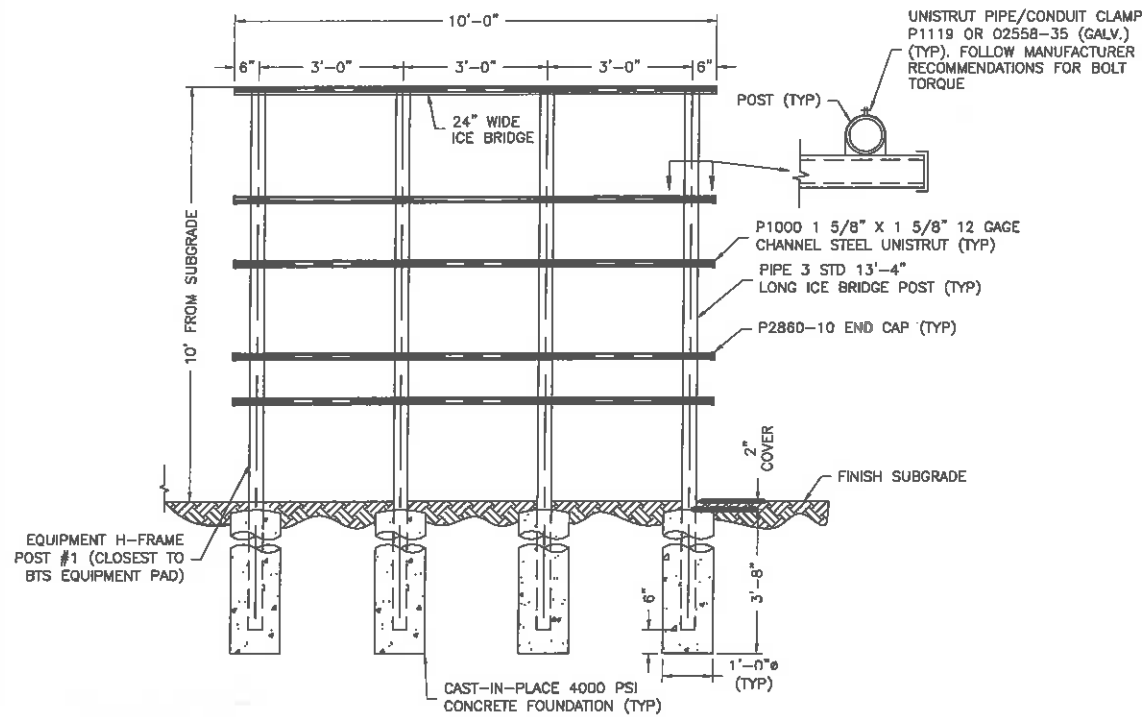
EQUIPEMENT PLAN
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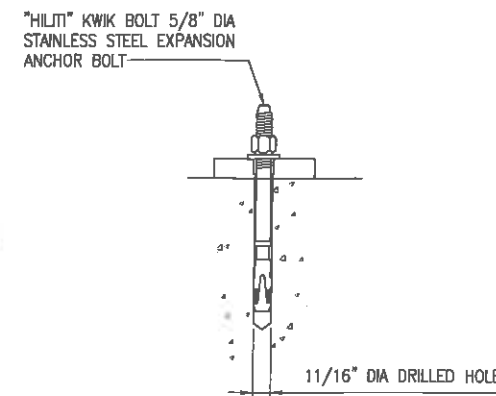
CONCRETE PAD DESIGN
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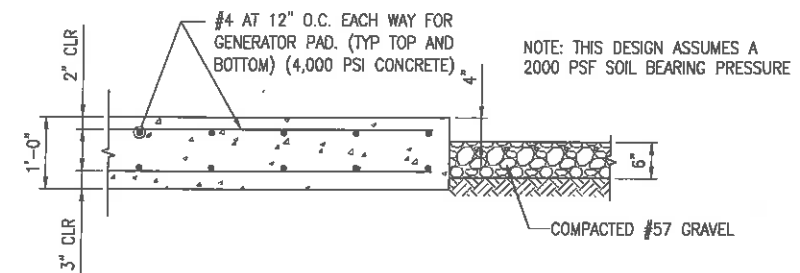
GENERATOR CONDUIT ROUTING DETAIL
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H-FRAME DETAIL
SCALE: N.T.S.



EXPANSION ANCHOR DETAIL
SCALE: N.T.S.



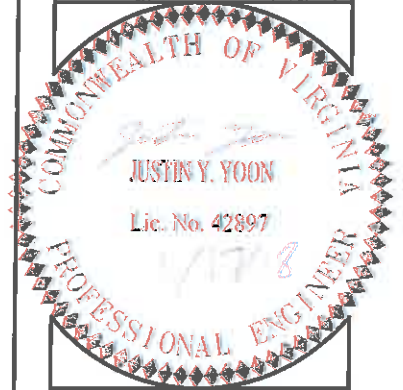
CONCRETE PAD FOUNDATION
SCALE: N.T.S.

CLARKNEXSEN

1111 E. Main Street,
Suite 1905
Richmond, VA 23219
804.644.4690

verizon

1831 RADY COURT
RICHMOND, VA 23222



SITE INFO:
SHADWELL

RAWLAND

3646 RICHMOND RD
KESWICK, VA
22947

ALBEMARLE COUNTY

DESIGN: -
DRAWN: -
REVIEW: -
TTV DATE: 05/20/16
COMM. NO. 5833-446

SUBMITTALS		
SYM.	DESCRIPTION	DATE
1	PRELIMINARY CONSTRUCTION DRAWINGS REV #0	06/01/16
2	ENSITE DRAWINGS REV #0	03/08/17
3	APPLICATION DRAWINGS REV #0	03/16/17
4	FINAL APPLICATION DRAWINGS REV #0	03/27/17
5	REVISED FINAL APPLICATION DRAWINGS REV #1	09/05/17
6	REVISED FINAL APPLICATION DRAWINGS REV #2	01/17/18
7	REVISED FINAL APPLICATION DRAWINGS REV #3	02/09/18
8	REVISED FINAL APPLICATION DRAWINGS REV #4	03/22/19

SHEET NAME:
**CONCRETE PAD
DETAILS**

SHEET NO.:
C-8

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