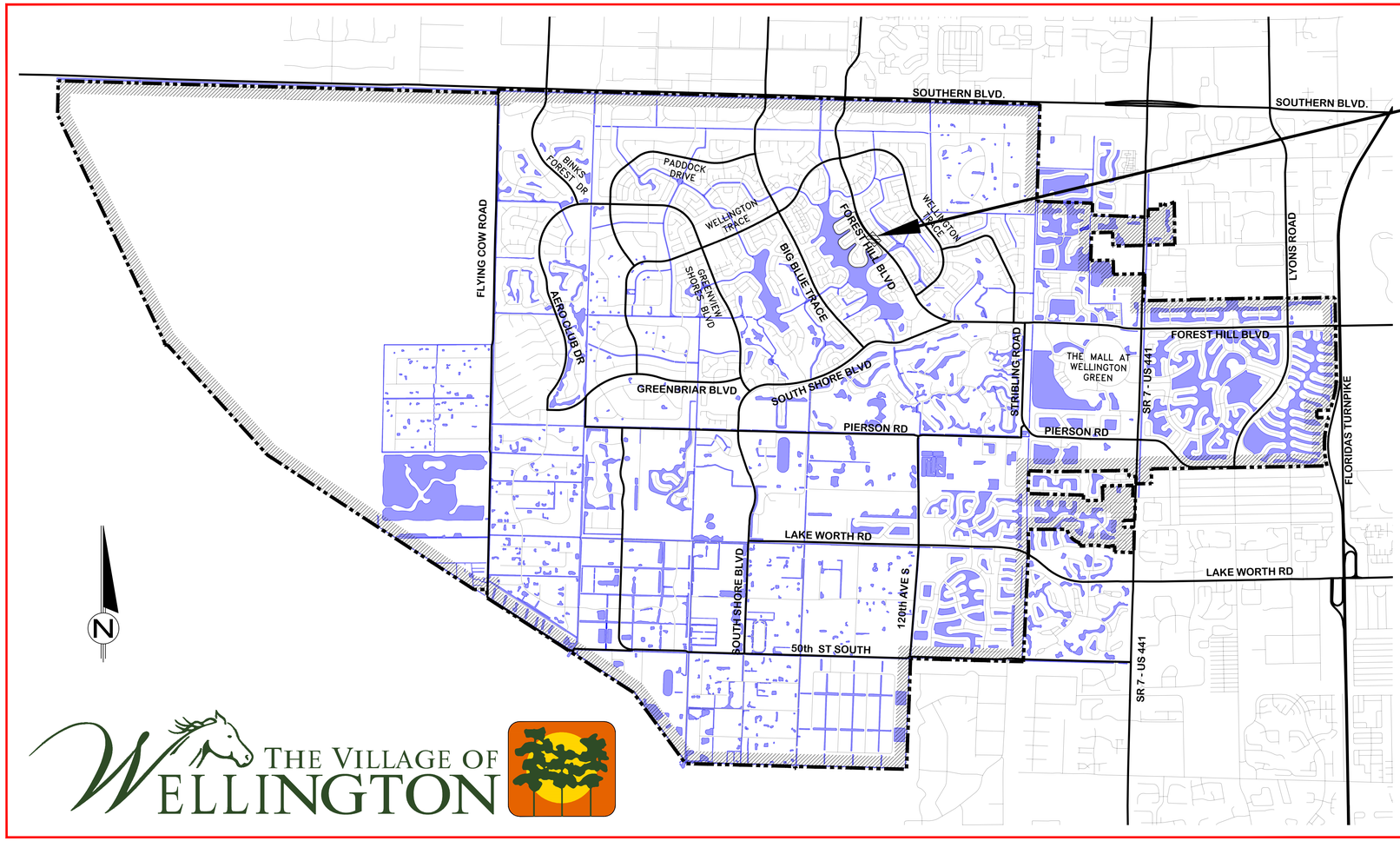
CONCEPT PLANS
FOR
BOLLARD REPLACEMENT AT PATRIOT MEMORIAL AND WELLINGTON AMPHITHEATER

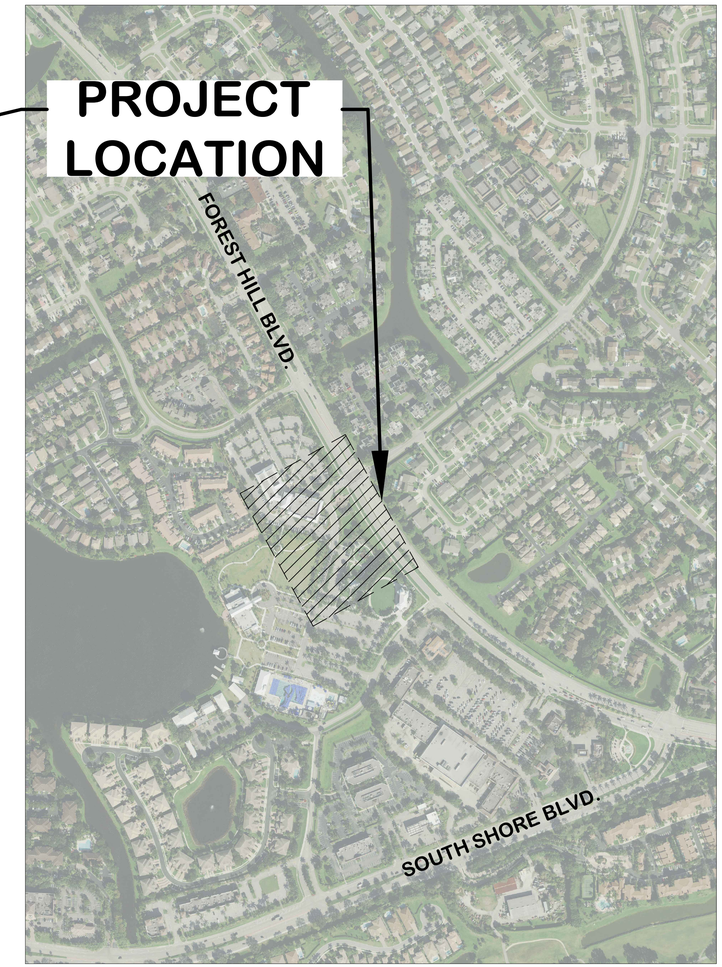
VILLAGE COUNCIL
ANNE GERWIG - MAYOR
MICHAEL J. DRAHOS - VICE MAYOR
JOHN T. McGOVERN - COUNCILMAN
MICHAEL NAPOLEONE - COUNCILMAN
TANYA SISKIND - COUNCILWOMAN

DRAWING INDEX

SHEET NO.	DESCRIPTION
COV	COVER
S1	GENERAL NOTES
S2	LOCATION MAP
S3	BOLLARD REPLACEMENT PLAN 9/11 - PATRIOT MEMORIAL
S4	BOLLARD REPLACEMENT PLAN WELLINGTON AMPHITHEATER
S5	MANUFACTURER SPECIFICATIONS



VILLAGE MAP
1:3,000 SCALE



PAUL SCHOFIELD - VILLAGE MANAGER
THOMAS J. LUNDEEN, P.E. - VILLAGE ENGINEER
MARCO ROSELLI - PROJECT MANAGER

REPRODUCTION:
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

811 Know what's below. Call before you dig.

BID PLANS
12 / 10 / 2018

W:\Departments\Engineering\0_CAD\0_Projects_FY2018 Projects\Bollards Replacement\BOLLARD REPLACEMENT COV__.dwg 9/20/2018 1:00 PM

©COPYRIGHT 2017 VILLAGE OF WELLINGTON THIS DRAWING IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND IS NOT TO BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

START DATE	8/2018	SHEET NO.	COV
DRAWN	A.T.D.		
PROJECT ENGINEER	J.R.R.		
PROJECT MANAGER	A.T.D.	JOB NO.	N/A
CHECKED	J.R.R.		

GENERAL NOTES

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 6TH EDITION (2017) FLORIDA BUILDING CODE.
2. WORK INCLUDED
   a. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERINTENDENCE, QUALITY CONTROL, MATERIALS, PLANT, POWER, LIGHT, HEAT, FUEL, WATER, TOOLS, APPLIANCES, EQUIPMENT, SUPPLIES, AND OTHER MEANS OF CONSTRUCTION NECESSARY AND PROPER FOR PERFORMING AND COMPLETING THE WORK. CONTRACTOR SHALL PERFORM AND COMPLETE THE WORK IN THE MANNER BEST CALCULATED TO PROMOTE SCHEDULED CONSTRUCTION CONSISTENT WITH SAFETY OF LIFE AND PROPERTY AND TO THE SATISFACTION OF THE OWNER, AND IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CLEAN UP THE WORK, MAINTAIN IT DURING CONSTRUCTION, AND PAY ALL COSTS INCIDENTAL THERETO. CONTRACTOR SHALL REPAIR OR RESTORE ALL STRUCTURES AND PROPERTY THAT MAY BE DAMAGED OR DISTURBED DURING PERFORMANCE OF THE WORK.
   b. THE COST OF INCIDENTAL WORK DESCRIBED IN THESE GENERAL REQUIREMENTS, FOR WHICH THERE ARE NO SPECIFIC CONTRACT ITEMS, SHALL BE CONSIDERED AS PART OF THE GENERAL COST OF DOING THE WORK AND SHALL BE INCLUDED IN THE PRICES FOR THE VARIOUS CONTRACT ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.
   c. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH MODERN PLANT, TOOLS, AND EQUIPMENT AS MAY BE NECESSARY IN THE OPINION OF THE ENGINEER, TO PERFORM IN A SATISFACTORY AND ACCEPTABLE MANNER ALL THE WORK REQUIRED BY THE CONTRACT. ONLY EQUIPMENT OF ESTABLISHED REPUTATION AND PROVEN EFFICIENCY SHALL BE USED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF WORKMANSHIP, MATERIALS AND EQUIPMENT, PRIOR APPROVAL OF THE ENGINEER NOTWITHSTANDING
3. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
   a. SUBMIT AT LEAST FIVE (5) COPIES OF ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA AND SAMPLES FOR ENGINEER'S REVIEW.
   b. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND TRANSMITTAL LETTERS PERTAINING THERETO SHALL BE IDENTIFIED WITH THE TITLE OF THE PROJECT, SUBMISSION DATE, AND THE CONTRACTOR'S ACKNOWLEDGEMENT THAT HE HAS REVIEWED THEM AND FOUND THEM ACCEPTABLE.
   c. NOTIFY ENGINEER IN WRITING, AT THE TIME OF SUBMITTAL, OF ANY DEVIATIONS IN THE SUBMITTALS FROM THE REQUIREMENTS OF THE CONTACT DOCUMENTS.
   d. THE REVIEW AND APPROVAL OF SHOP DRAWINGS, SAMPLES OR PRODUCT DATA BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY WITH REGARD TO THE FULFILLMENT OF THE TERMS OF THE CONTRACT DOCUMENTS. ALL RISKS OF ERROR AND OMISSION ARE ASSUMED BY THE CONTRACTOR AND THE ENGINEER WILL HAVE NO RESPONSIBILITY THEREFORE.
4. THE CONTRACTOR AND OR HIS SUBCONTRACTORS SHALL BE IN COMPLIANCE WITH CURRENT OSHA, STATE, COUNTY AND LOCAL REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO 54 CFR 45894 AND 29 CFR 1926.650 & 651 AND THE FLORIDA TRENCH SAFETY ACT.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT ALL IRREGULARITIES OR DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
6.
   a. ALL SALVAGEABLE MATERIAL AND EQUIPMENT REMOVED FROM THE EXISTING CONSTRUCTION FOR WHICH SPECIFIC USE, RELOCATION OR OTHER DISPOSAL IS NOT SPECIFICALLY NOTED ON THE DRAWINGS OR OTHERWISE SPECIFIED, SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO HIM. ALL MATERIAL AND EQUIPMENT NOT IN SALVAGEABLE CONDITION AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER AT THE CONTRACTOR'S EXPENSE. THE ACTUAL STORAGE SITE FOR SALVAGEABLE MATERIAL WILL BE DESIGNATED BY THE OWNER.
7. CLEANING
   a. DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE THE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE ENGINEER, SUCH MATERIAL, DEBRIS, OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE.
   b. AT THE CONCLUSION OF THE WORK, ALL TOOLS, TEMPORARY STRUCTURES AND MATERIALS BELONGING TO THE CONTRACTOR SHALL BE PROMPTLY TAKEN AWAY AND CONTRACTOR SHALL REMOVE AND PROMPTLY DISPOSE OF ALL RUBBISH OR ANY OTHER FOREIGN MATERIALS. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL MATERIAL INSTALLED AND SHALL DELIVER SUCH MATERIALS UNDAMAGED IN A CLEAN AND NEW CONDITION.

Know what's **below.**
Call before you dig.

BID PLANS
12 / 10 / 2018

W:\DEPARTMENTS\ENGINEERING\0_CAD\0_PROJECTS_FY2018 PROJECTS\BOLLARDS REPLACEMENT\BOLLARD REPLACEMENTS.DWG

REVISIONS		
NO.	DATE	REMARKS	BY

COPYRIGHT "©TAWILLAGE OF WELLINGTON" THIS DRAWING IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND IS NOT TO BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

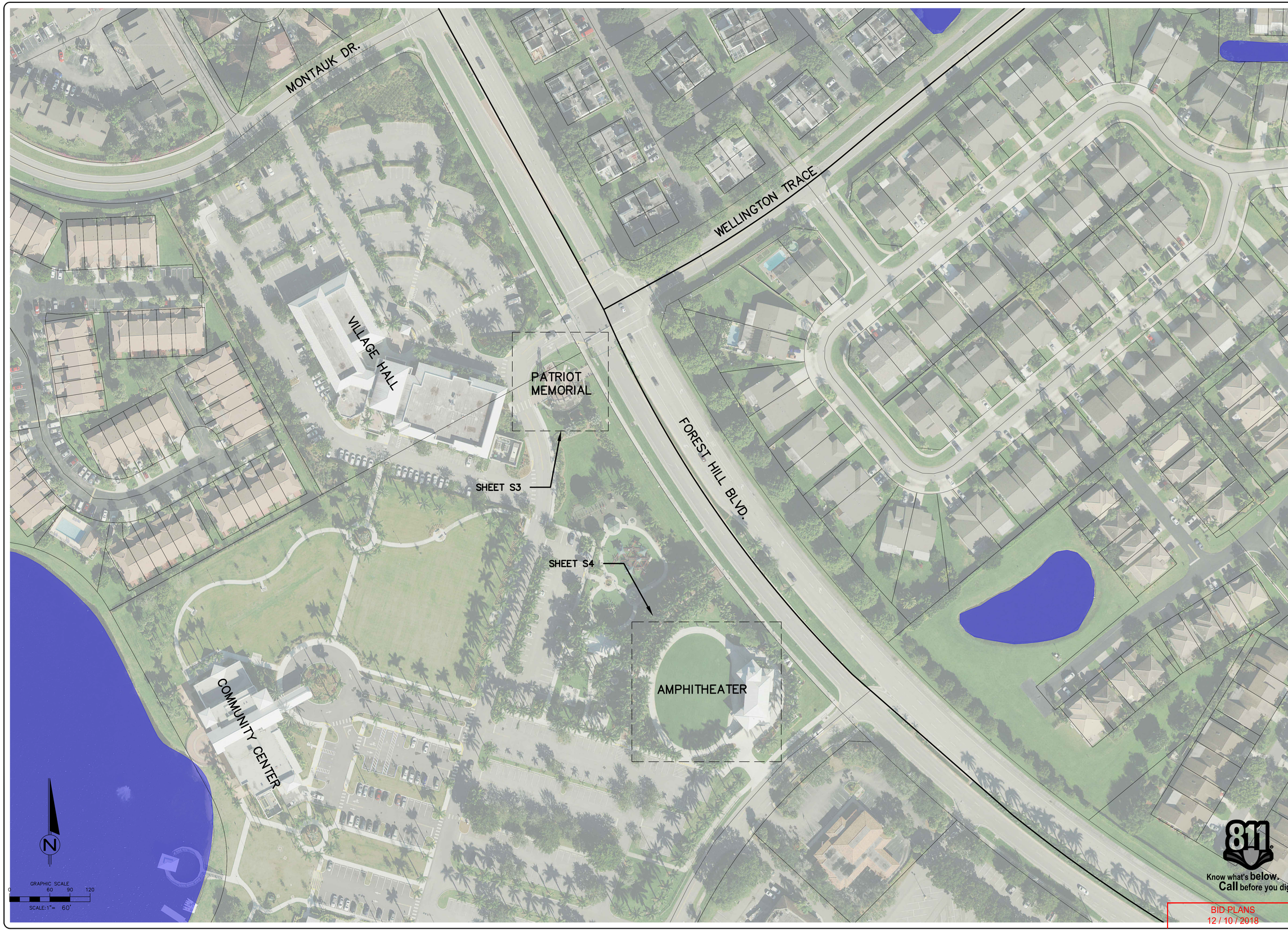
THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

GENERAL NOTES
FOR
BOLLARD REPLACMENT

START DATE	08/2018
DRAWN	A.T.D.
PROJECT ENGINEER	J.R.R.
PROJECT MANAGER	A.T.D.
CHECKED	J.R.R.

SHEET NO. S1

JOB NO. N/A



BID PLANS
12 / 10 / 2018

REVISIONS			
NO.	DATE	REMARKS	BY

COPYRIGHT "© THE VILLAGE OF WELLINGTON" THIS DOCUMENT IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND SHALL NOT BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

LOCATION MAP FOR BOLLARD REPLACEMENT

W:\DEPARTMENTS\ENGINEERING\0_CAD\D_PROJECTS_FY2018 PROJECTS\BOLLARDS REPLACEMENT\BOLLARD REPLACEMENTS.DWG

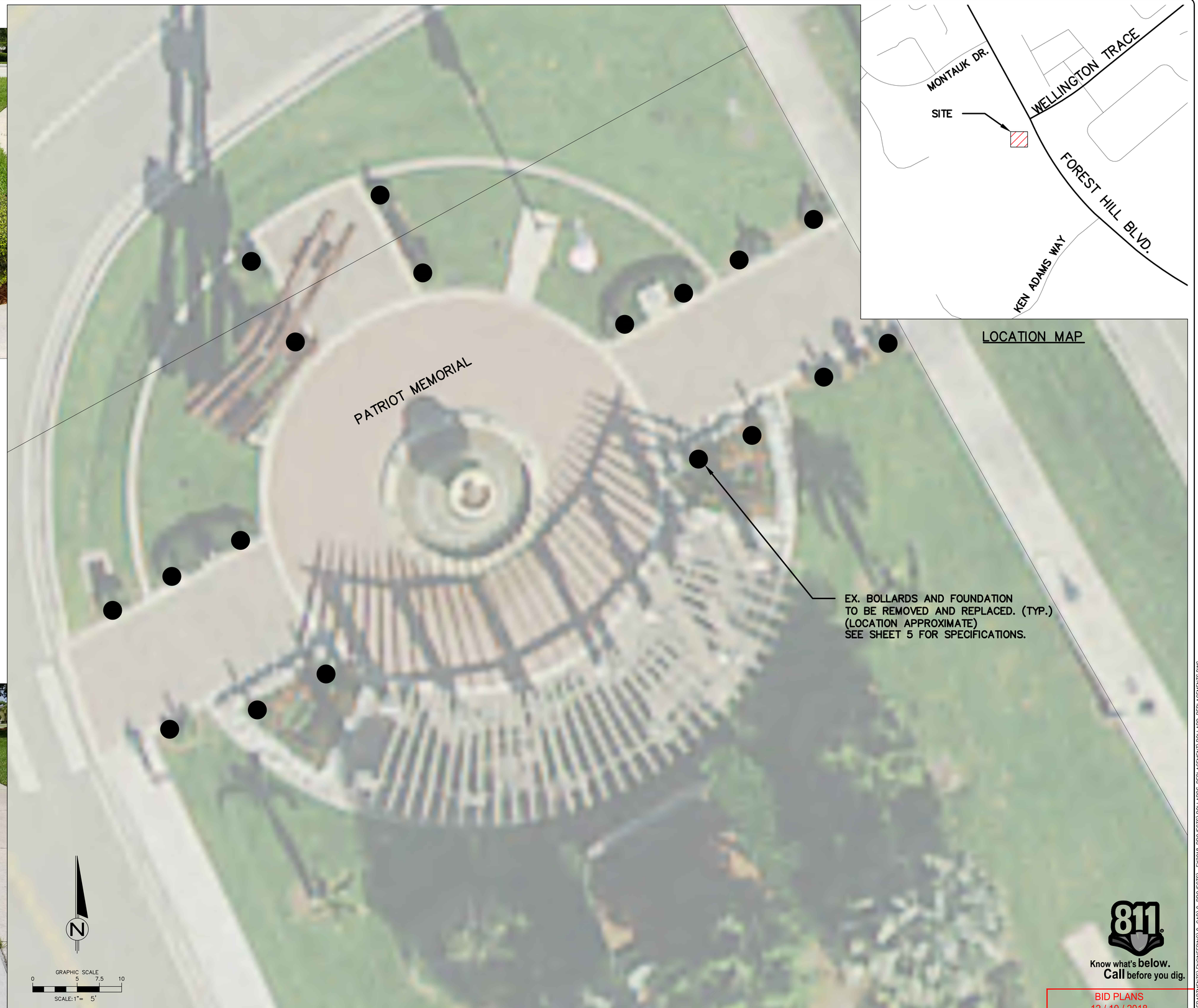
START DATE	08/2018
DRAWN	A.T.D.
PROJECT ENGINEER	J.R.R.
PROJECT MANAGER	A.T.D.
CHECKED	J.R.R.

S2

JOB NO. N/A

EX. BOLLARD TO BE REMOVED

PROP. BOLLARD



LOCATION MAP

BID PLANS
12 / 10 / 2018

REVISIONS			
NO.	DATE	REMARKS	BY

COPYRIGHT "© THE VILLAGE OF WELLINGTON" THIS DRAWING IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND IS NOT TO BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

BOLLARD REPLACEMENT PLAN
FOR
9/11 PATRIOT MEMORIAL

W:\DEPARTMENTS\ENGINEERING\0_CAD\0_PROJECTS_FY2018 PROJECTS\BOLLARDS REPLACEMENT\BOLLARD REPLACEMENTS.DWG

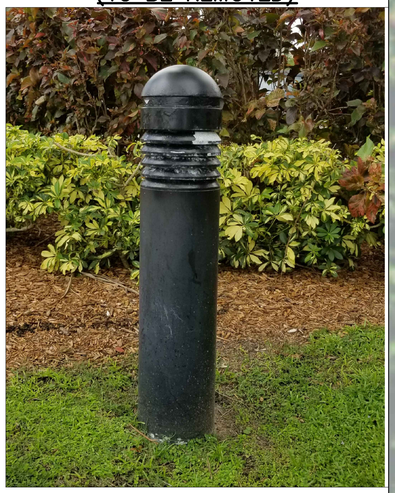
START DATE	08/2018
DRAWN	A.T.D.
PROJECT ENGINEER	J.R.R.
PROJECT MANAGER	A.T.D.
CHECKED	J.R.R.

S3

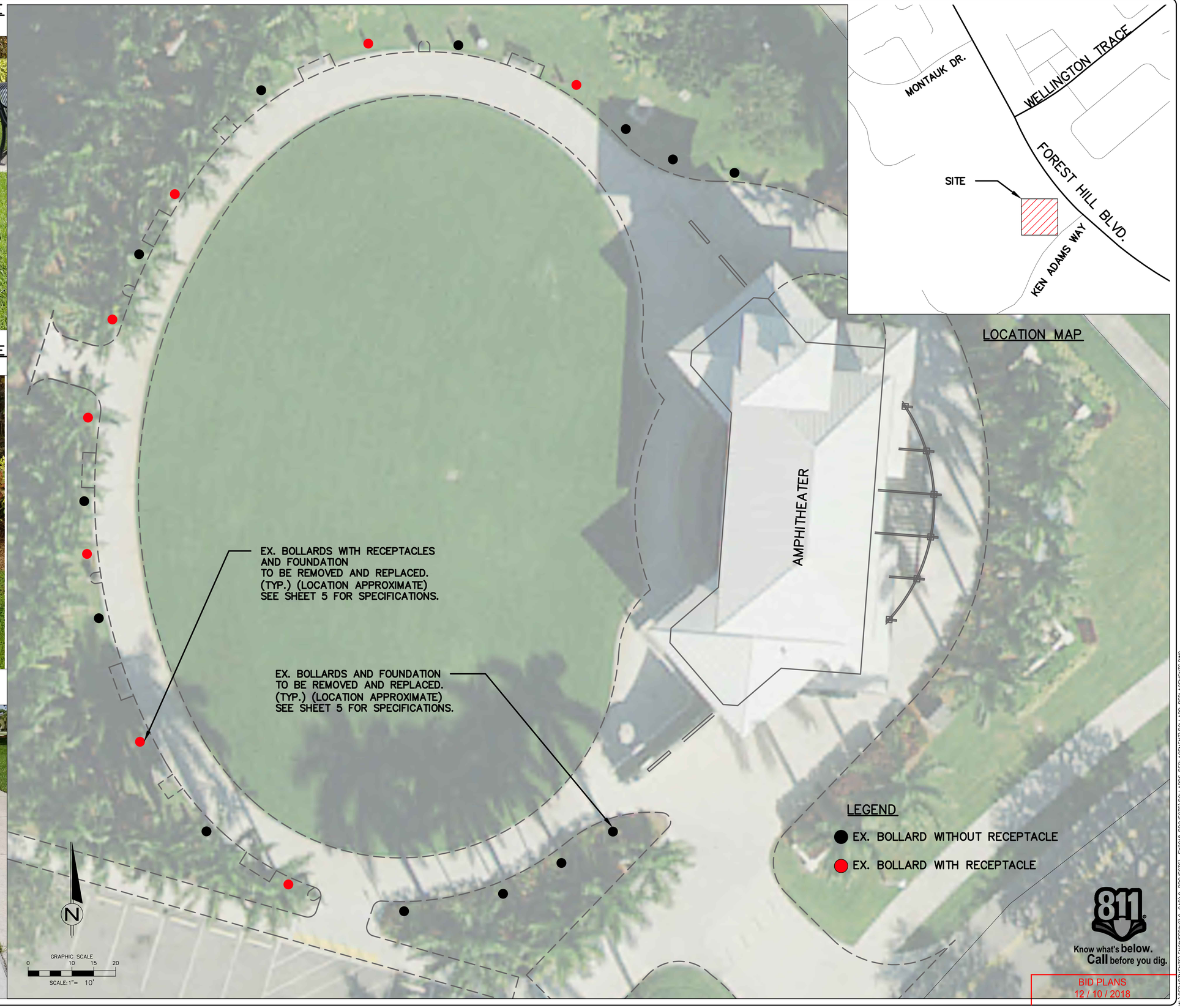
JOB NO.
N/A

EX. BOLLARD – WITH RECEPTACLE
(TO BE REMOVED)

EX. BOLLARD – W/O RECEPTACLE
(TO BE REMOVED)



PROP. BOLLARD



BID PLANS
12 / 10 / 2018

REVISIONS		
NO.	DATE	REMARKS	BY

COPYRIGHT "© THE VILLAGE OF WELLINGTON" THIS DRAWING IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND IS NOT TO BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

BOLLARD REPLACEMENT PLAN
FOR
WELLINGTON AMPHITHEATER

W:\DEPARTMENTS\ENGINEERING\O_CAD\O_PROJECTS_FY2018 PROJECTS\BOLLARDS REPLACEMENT\BOLLARD REPLACEMENTS.DWG

	START DATE	
DRAWN	08/2018	A.T.D.
PROJECT ENGINEER		J.R.R.
PROJECT MANAGER		A.T.D.
CHECKED		J.R.R.

SHEET NO. S4

JOB NO. N/A

VOLTAIRE CONCRETE BOLLARD – ARCHILINEAR

VCBA

LED

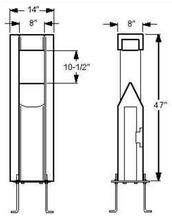
CATALOG #: | TYPE:

PROJECT: | NOTES:

EXAMPLE **VCBA - L9/830 - NC - AB - OPTIONS - 120**

SERIES | LUMEN PACKAGE | CRI & CCT | FINISH | ANCHOR BOLTS | OPTIONS | VOLTAGE

CROSS SECTIONS



FEATURES

- Concrete housing complements gardens, pathways, and pedestrian-area applications
- Aesthetically designed to blend seamlessly with a variety of architectural styles
- Provides accent and security lighting
- Symmetric distribution
- Available in four concrete colors with light sandblast or glazed protective finish
- Engineered with the highest quality materials to ensure reliability and performance
- Rated >50,000 hours at 70% lumen maintenance (L70)
- ANSI 3000K, 4000K, or 5000K CCT
- Minimum 80 CRI
- Integral heatsink provides optimal passive thermal management
- Rated for -30°C to 40°C ambient operating temperature
- Direct line driven LED module
- This fixture is proudly made in the USA

ORDERING INFORMATION

SERIES

VCBA Voltaire Concrete Bollard – Archilinear

LED PACKAGE

Nominal lumens based on 120V input. See back for fixture performance data.

EXAMPLE: L9/830			
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	AVERAGE WATTAGE
L9	900	**830** = 80 CRI, 3000K **840** = 80 CRI, 4000K **850** = 80 CRI, 5000K	17

CONCRETE FINISH

SANDBLAST FINISH

- **NC** Natural
- **BF** Buff
- **BN** Brown
- **CP** Copper

GLAZED SANDBLAST FINISH

- **NCG** Natural with glazed protective sealant
- **BNG** Brown with glazed protective sealant
- **BFG** Buff with glazed protective sealant
- **CPG** Copper with glazed protective sealant

ANCHOR BOLTS

- **AB**[1] Anchor bolts (4 each, shipped with fixture)[1]
- **LAB** Less anchor bolts
- **PAB**[1] Pre-shipped anchor bolts (4 each)[1]

OPTIONS

- **SFW** Single fuse, wet location (120V, 277V, or 347V only; must specify voltage)
- **DFW** Double fuse, wet location (208V, 240V, or 480V only; must specify voltage)

VOLTAGE

- **120** 120V
- **208** 208V
- **240** 240V
- **277** 277V (integral stepdown transformer)
- **347** 347V (integral stepdown transformer)
- **480** 480V (integral stepdown transformer)

[1] Four 3/8" x 12" cast-in galvanized steel anchor J-bolts. Mounting template included.

VCBA

VOLTAIRE CONCRETE BOLLARD – ARCHILINEAR

LED

SPECIFICATIONS

Housing – Steel reinforced precast concrete with a light sand blasted finish.
Thermal Management – Integral aluminum heatsink and LED source provide passive thermal management. Rated -30°C to 40°C ambient operating temperature.
LED Housing – High-grade cast aluminum with superior corrosion resistance. Silver polyester powder coat finish bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability.
LED Module – High quality mid-power LED board. L70 >50,000 hours.
Electrical – 10kA/10kV surge protection standard.
Mounting – Minimum 4" recessed in ground with four-point hot dip galvanized 1/4" A36 steel baseplate. For accurate installation a full scale mounting template is provided with each bollard and anchor bolt order. Fixture weight: 220 lbs.
Handhole Cover – Grounded stainless steel plate with precast concrete secured with vandal resistant torx fastener.
Labels – cCSAus certified as luminaire suitable for wet locations.
Certifications & Qualifications –

- Calculated L70 lumen maintenance will exceed 50,000 hours per IES TM-21.
- IDA Dark-Sky approved
- Tested to IES LM-79-08 standards.
- RoHS compliant.

Warranty – 5-year limited warranty, see hew.com/warranty.

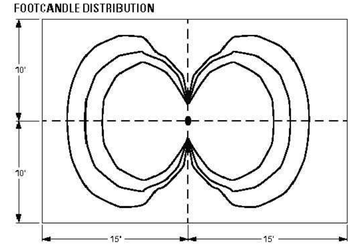
PHOTOMETRY INFORMATION

Catalog #: **VCBA-L9/840-NC**

TEST REPORT INFORMATION

- Test Report #: ATAL009242-R2
- Date: 05/28/15
- **Rated Lumens: 932**
- **Watts: 16.85**
- **Lumens Per Watt: 55.3**
- **CRI: 81**
- **CCT: 3797K**

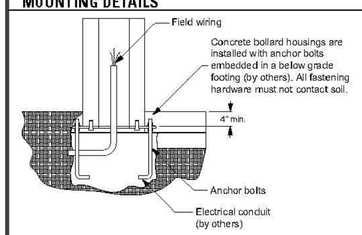
FOOTCANDLE DISTRIBUTION



FIXTURE PERFORMANCE DATA

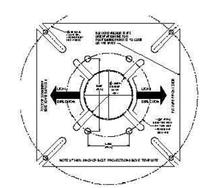
LED Package	Voltage	Flux (lm)	CRI	Wattage
L9/830	120	868	80	17
L9/840	120	889	81	17
L9/850	120	908	82	17
L9/830	208	818	80	16
L9/840	208	838	81	16
L9/850	208	856	82	16
L9/830	240	922	80	19
L9/840	240	944	81	19
L9/850	240	965	82	19
L9/830	277	926	80	20
L9/840	277	949	81	20
L9/850	277	970	82	20
L9/830	347	864	80	19
L9/840	347	884	81	19
L9/850	347	904	82	19
L9/830	480	922	80	19
L9/840	480	944	81	19
L9/850	480	965	82	19

MOUNTING DETAILS



MOUNTING TEMPLATE

Mounting template is provided with each order. A pdf file (not to scale) of the mounting template is available at www.hew.com.



NOTES:

1. THE EXISTING BOLLARDS, INCLUDING THE FOOTINGS, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
2. SHOP DRAWINGS SHALL BE PROVIDED FOR THE PROPOSED FOOTINGS/BASE FOR APPROVAL.
3. BOLLARD INSTALLATION SHALL BE SUITABLE FOR WIND LOAD IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.
4. ALL EXISTING BOLLARDS WITH RECEPTACLES SHALL BE REPLACED WITH THE PROPOSED BOLLARD WITH A RECEPTACLE.
5. ELECTRICAL TO BE COMPLETED BY CONTRACTOR.
6. ELECTRICAL DESIGN AND PERMITTING TO BE PROVIDED BY CONTRACTOR.
7. THESE PLANS ARE FOR LAYOUT PURPOSES ONLY. NO ELECTRICAL OR FOUNDATION DESIGN PROVIDED.

Know what's **below.**
Call before you dig.

BID PLANS
12 / 10 / 2018

REVISIONS

NO.	DATE	REMARKS	BY

(COPYRIGHT "© FAMILLAGE OF WELLINGTON" THIS DRAWING IS AN INSTRUMENT OF SERVICE BY THE VILLAGE OF WELLINGTON AND IS NOT TO BE REPRODUCED IN PART OR IN WHOLE BEYOND THE INTENDED SCOPE OF USE.

THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

MANUFACTURER SPECIFICATIONS FOR BOLLARD REPLACEMENT

W:\DEPARTMENTS\ENGINEERING\O_CAD\O_PROJECTS_FY2018 PROJECTS\BOLLARDS REPLACEMENT\BOLLARD REPLACEMENTS.DWG

START DATE	08/2018
DRAWN	A.T.D.
PROJECT ENGINEER	J.R.R.
PROJECT MANAGER	A.T.D.
CHECKED	J.R.R.

SHEET NO. S5

JOB NO. N/A