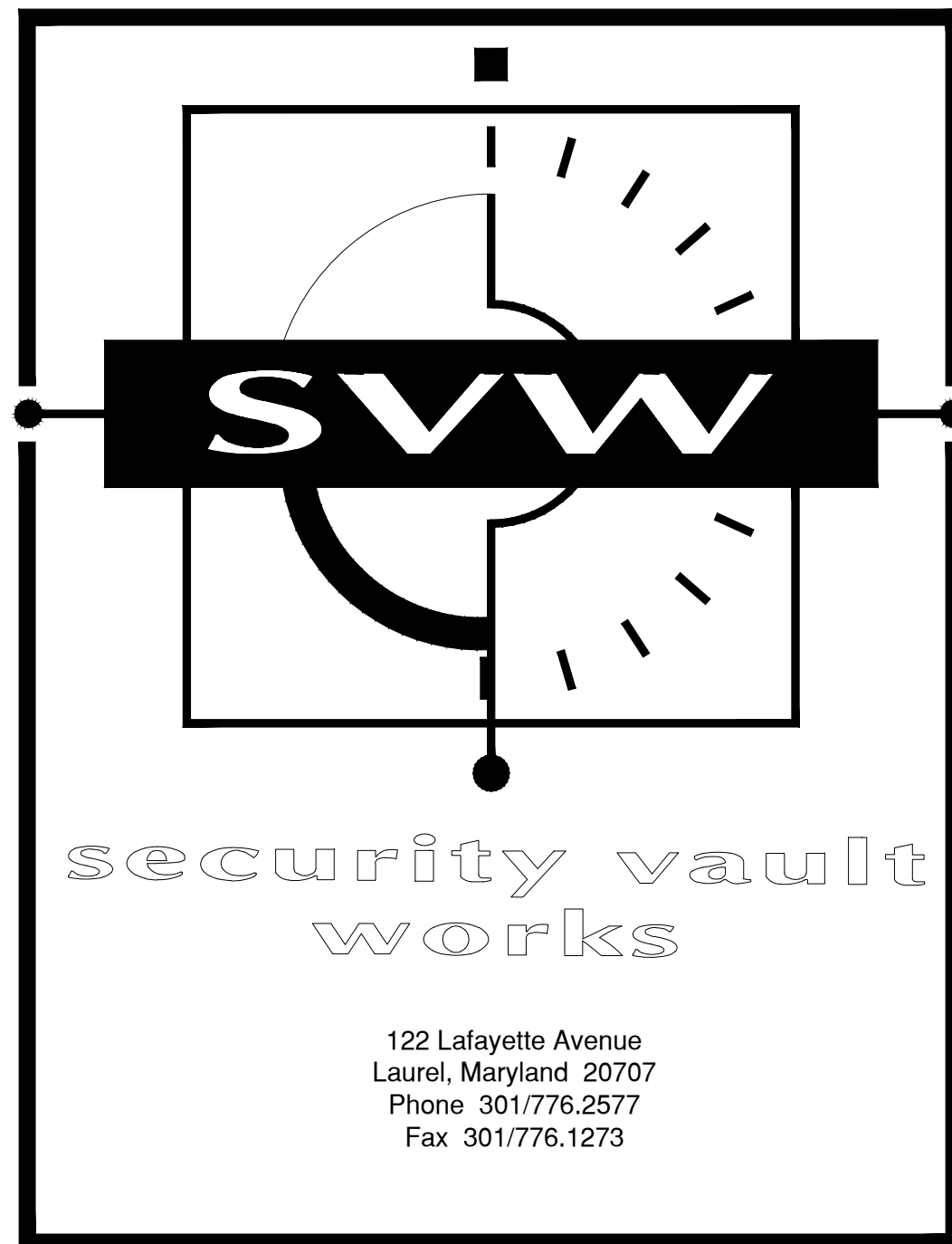




# Bank of America - Maple Ave. REMOTE WALK-UP ATM INSTALLATION CONSTRUCTION DOCUMENTS



**James M. Hamill**

ARCHITECT

580 Decker Drive  
Suite 170  
Irving, Texas 75062  
Phone 972/714.0420  
Fax 972/714.0282

### Local Address:

418 Maple Ave.  
Vienna, VA 22180

### Developer/Applicant/Designer:

Heather McCarriher  
Security Vault Works  
122 Lafayette Ave.  
Laurel, MD 20707  
301-776-2577 Ext. 1016

### Building Codes:

2015 Virginia Uniform Statewide Building Code  
2014 National Electrical Code

### Building Construction Type:

2B Unprotected non-combustible

### Schedule of Drawings

#### GENERAL

C.1 - Cover Sheet

#### ARCHITECTURAL

A.1 - Site Plan

A.2 - Plans

A.3 - Plan and Elevation

A.4 - Details

A.5 - Details

E.1 - Electrical Details

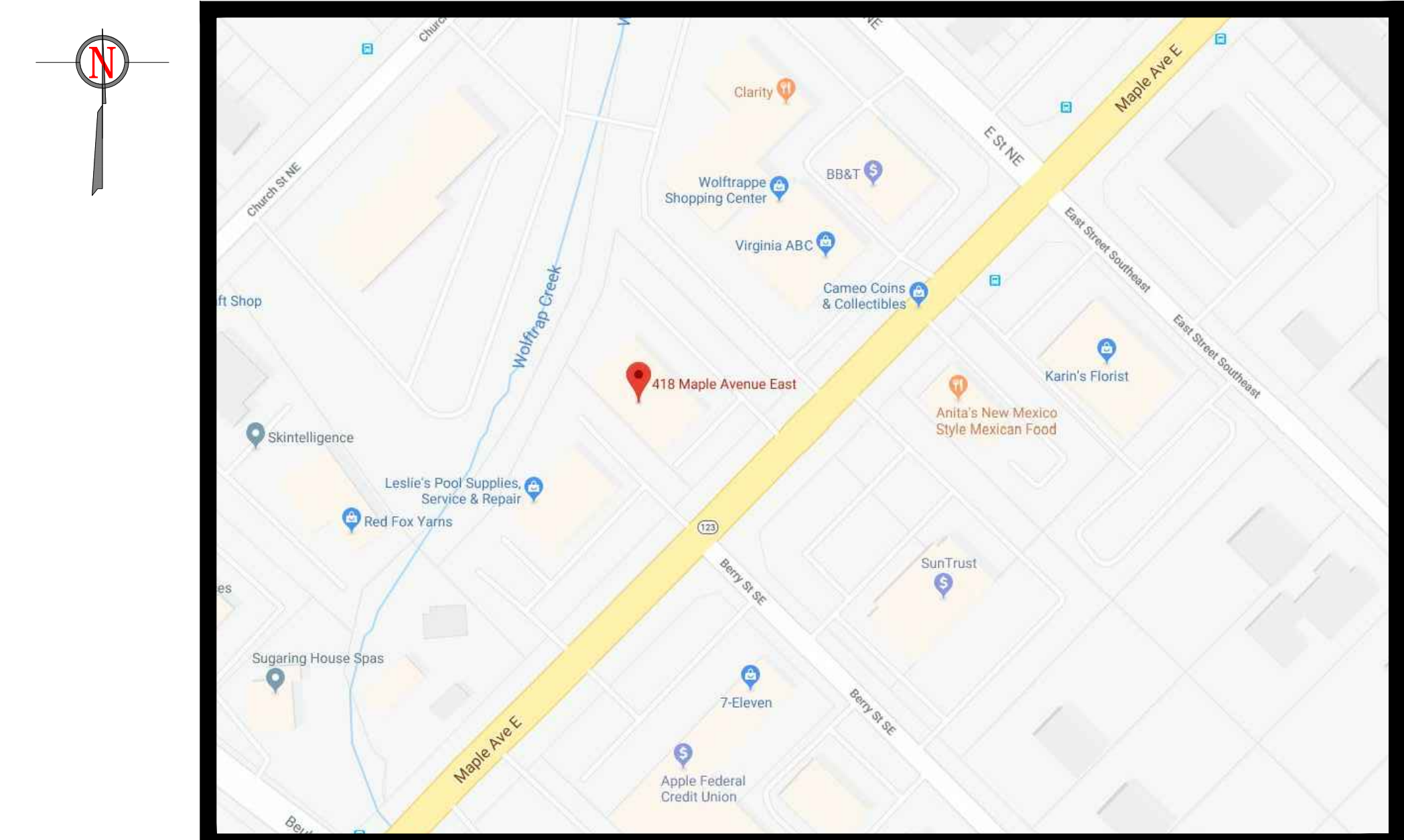
E.2 - Electrical Details

### Scope of Work:

- Disconnect Electric
- Remove Existing ATM
- Remove Existing Kiosk
- Install New ATM
- Install New Kiosk
- Reusing existing electrical

### Site Location Map

Scale: NOT TO SCALE



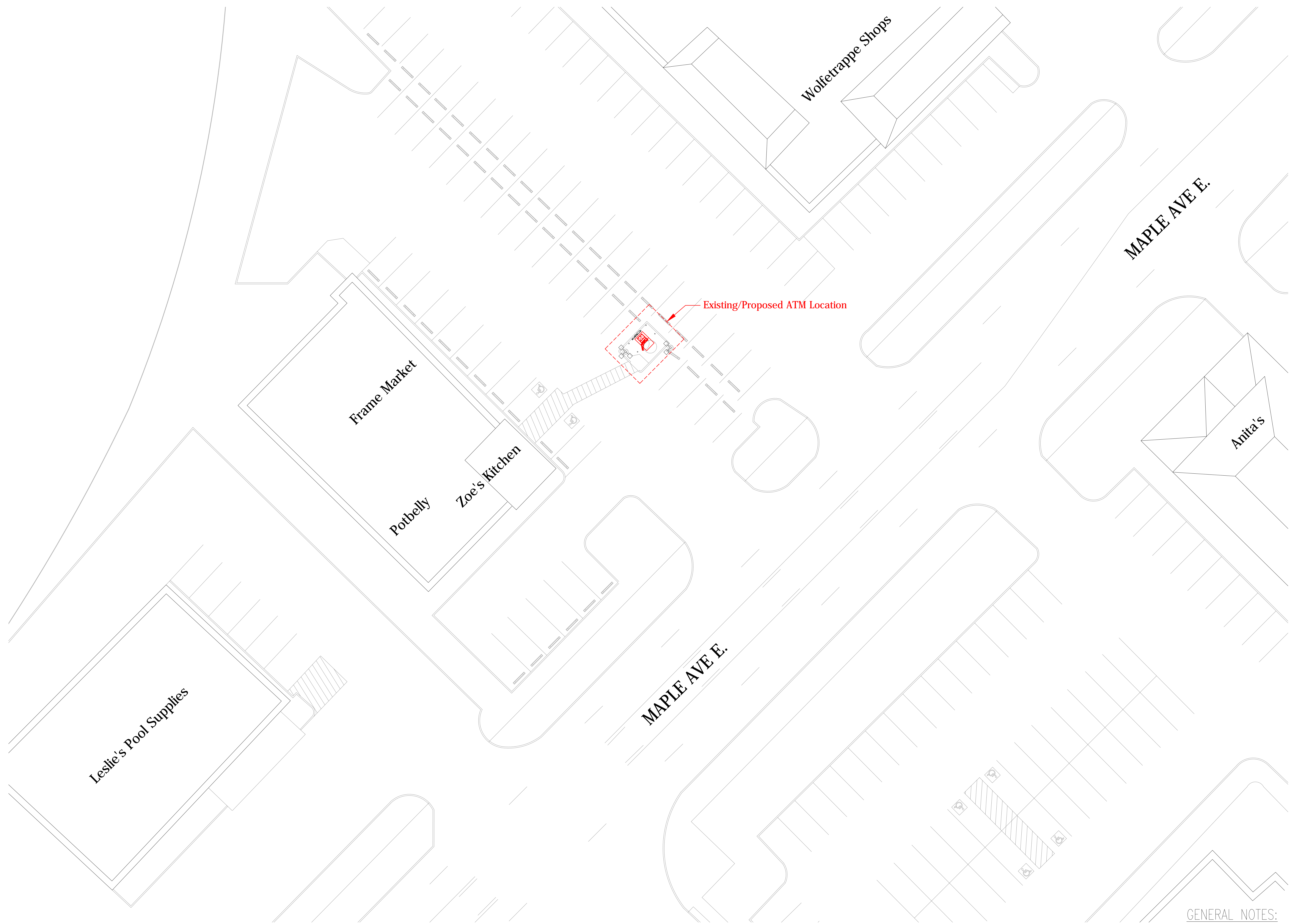
Existing



Rendering







1 Site Plan  
 A.1 Scale: 1/16" = 1'-0"

**GENERAL NOTES:**  
 1. ALL WORK IS TO BE COORDINATED WITH THE BRANCH REPRESENTATIVE.  
 2. FOR STRUCTURAL, FINISH AND ELECTRICAL DETAILS REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS.

Site Plan

Bank of America - Maple Ave. (IVAD0022)  
 418 Maple Ave.  
 Vienna, VA 22180

**security vault works**  
 122 Lafayette Avenue  
 Laurel, Maryland 20707  
 Phone 301/776-2577  
 Fax 301/776-1273

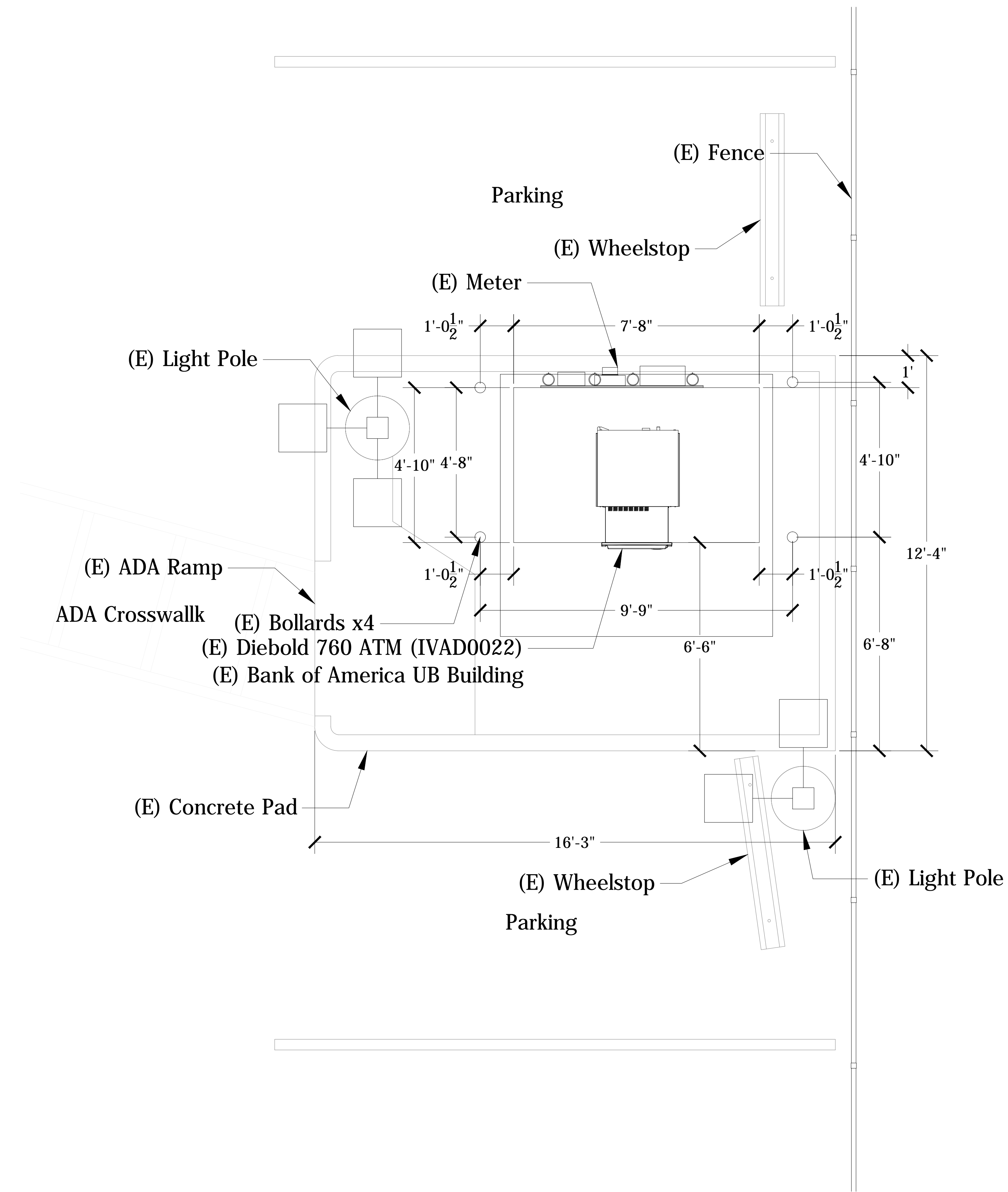
**James M. Hamill**  
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JAMES M. HAMILL  
 No. 3632  
 2-15-2019  
 ARCHITECT

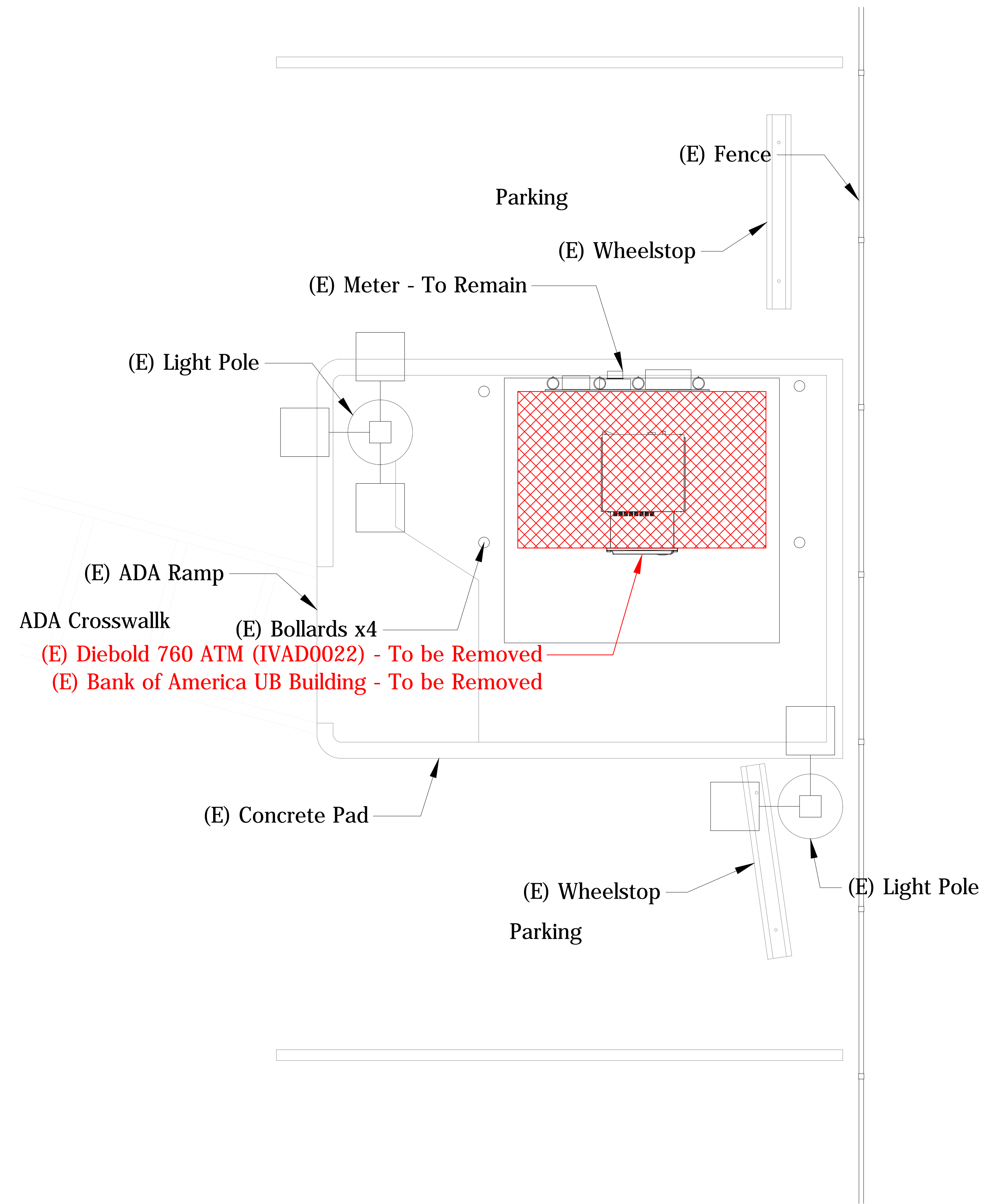
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 Date: 12-19-18 Drawn By: DEC

Revisions:  
 1 3  
 2 4

Drawing Number:  
**A.1**  
 SVW Project Number: 10-19-0023  
 Cad File Name: Maple Ave



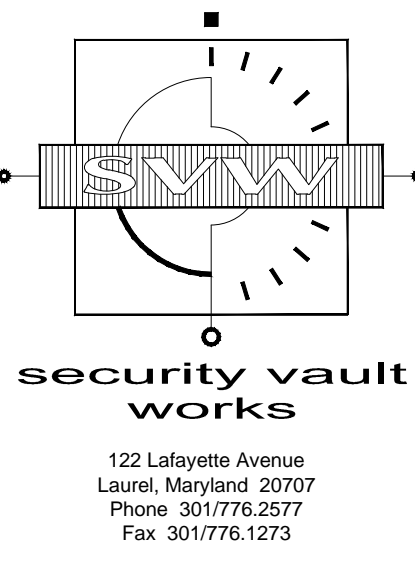
1 Existing Layout Plan  
 A.2 Scale: 1/2" = 1'-0"



2 Demolition Plan  
 A.2 Scale: 1/2" = 1'-0"

GENERAL NOTES:  
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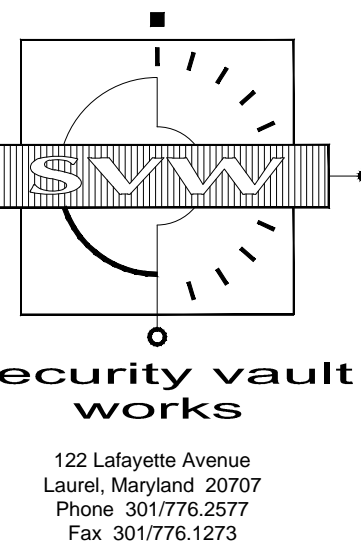
Date: 12-19-18 Drawn By: DEC

Revisions:  
 1. 2. 3.

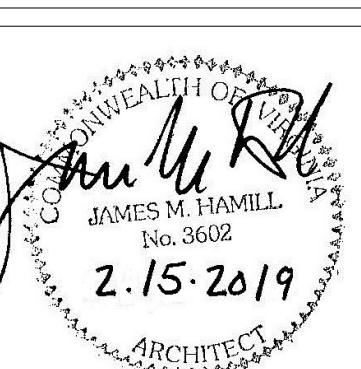
Drawing Number:  
**A.2**  
 SVW Project Number: 10-19-0023  
 Cad File Name: Maple Ave



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418 Maple Ave.  
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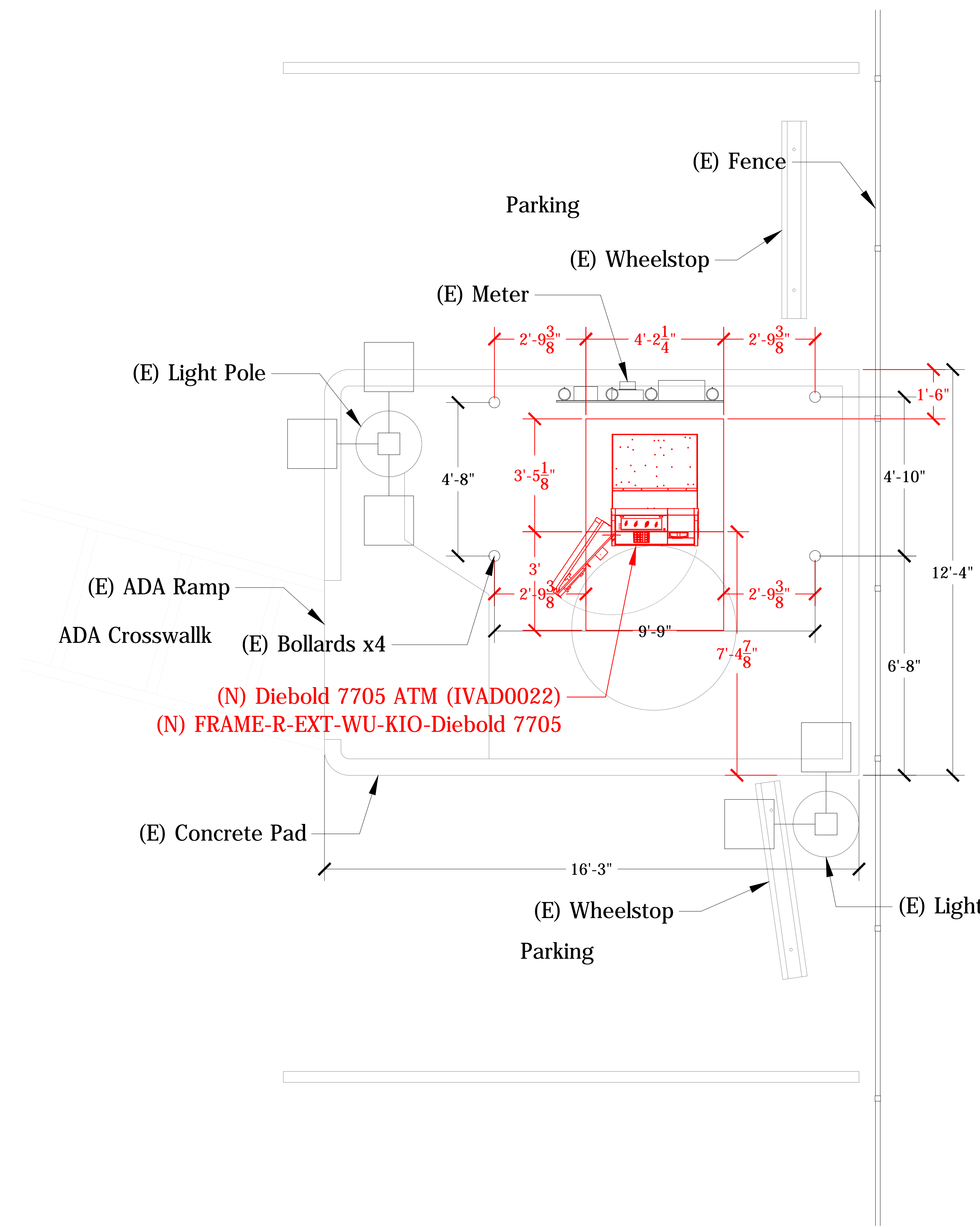


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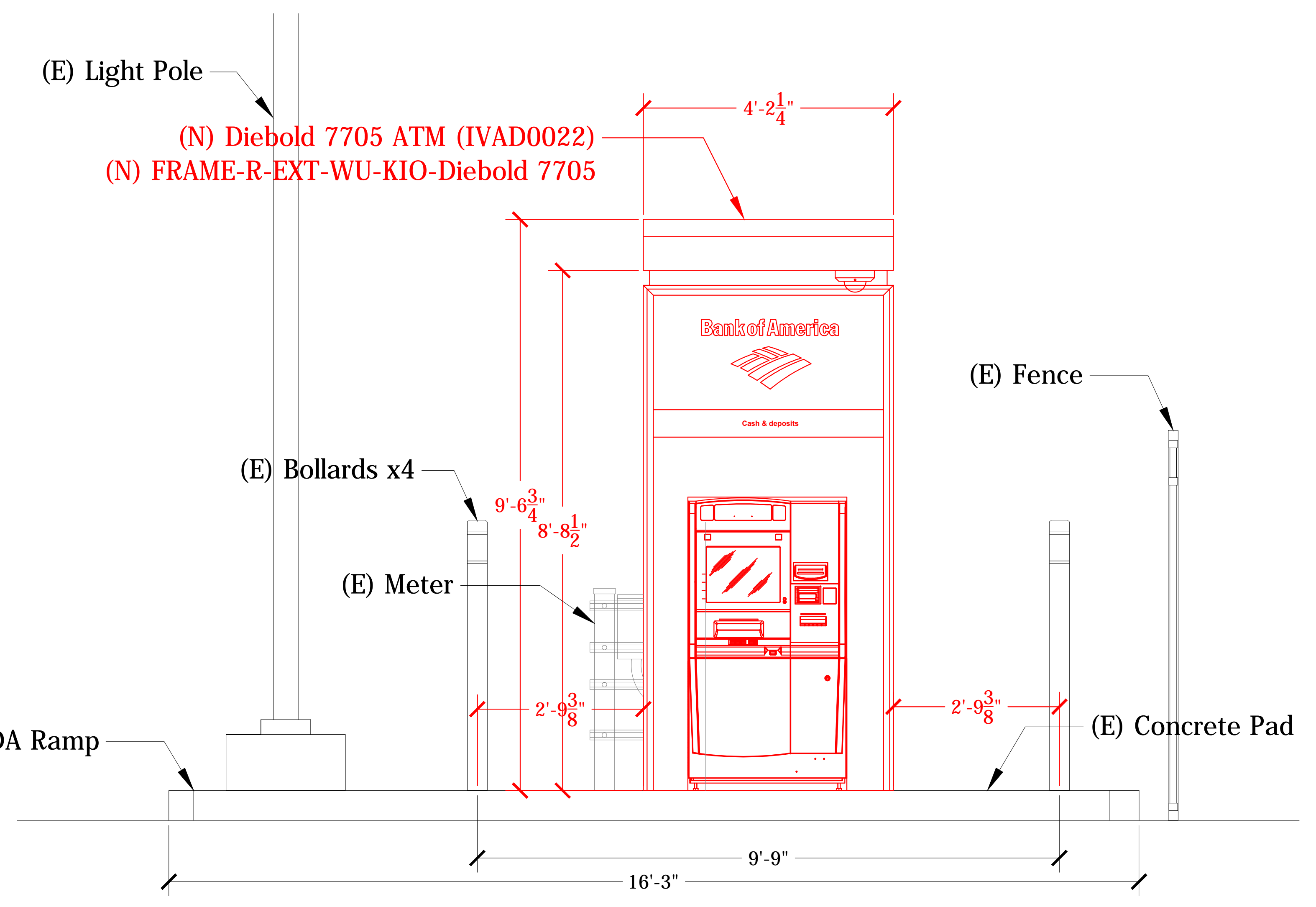
Date: 12-19-18 Drawn By: DEC

Revisions:  
1  
2  
3

Drawing Number:  
**A.3**  
SVW Project Number: 10-19-0023  
Cad File Name: Maple Ave



1 Proposed Layout Plan  
A.3 Scale: 1/2" = 1'-0"



2 Proposed Elevation  
A.3 Scale: 3/4" = 1'-0"

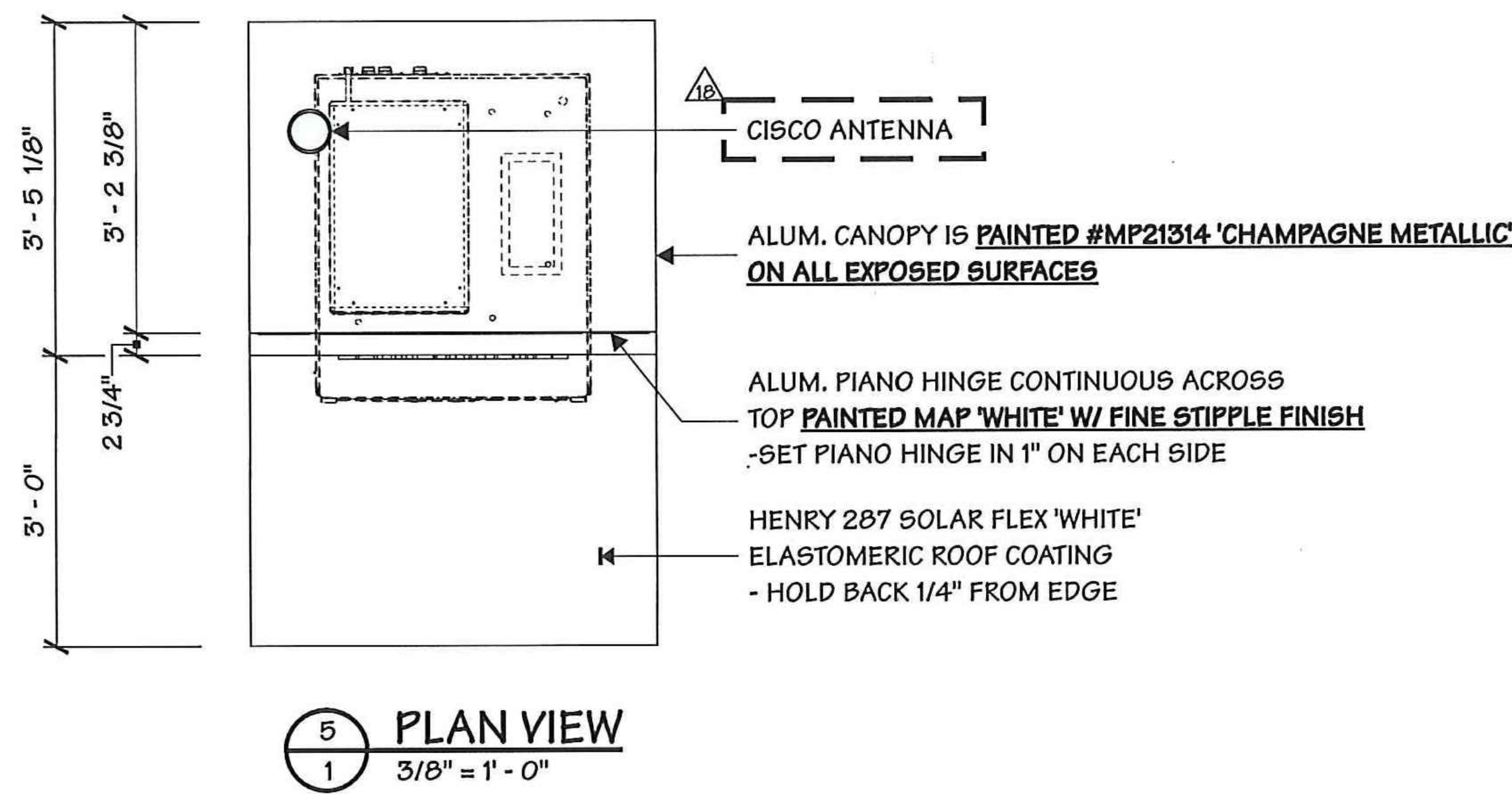
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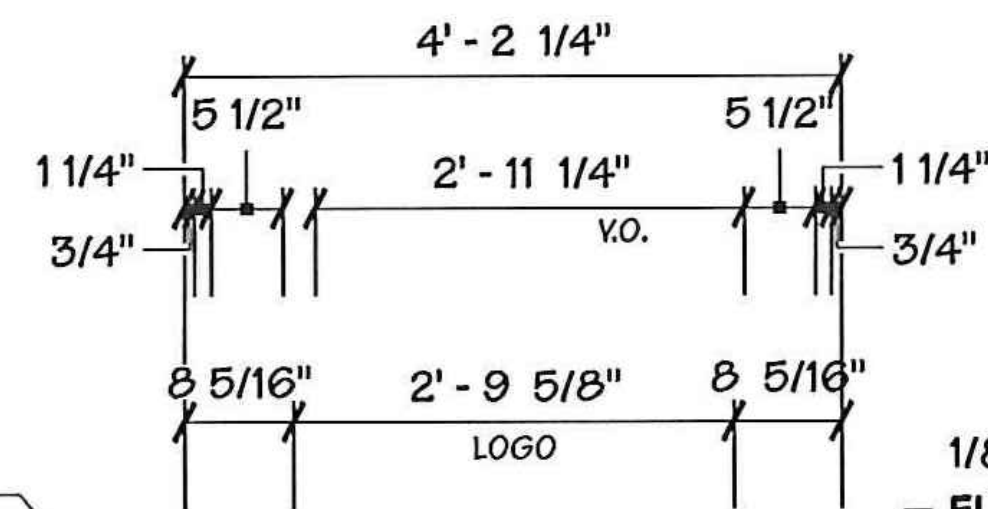
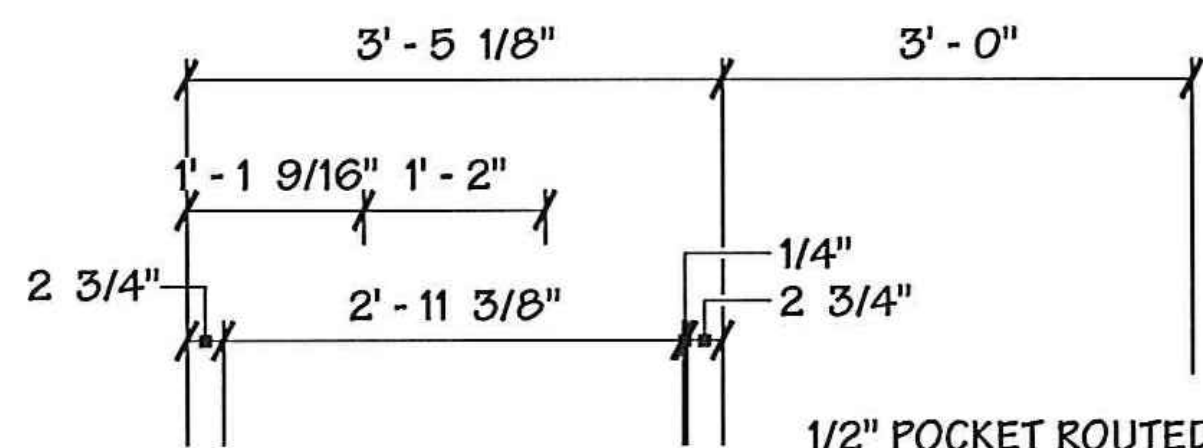
Designed Per IBC 2015 MD Edition  
 Designed Per Maryland Building Performance Standards

**Snow Loads**  
 Ground Snow Load Pg- 25 psf  
 Snow Exposure Factor Ce= 1.0  
 Snow Load Importance Is= 1.1  
 Thermal Factor Ct= 1.0

**Wind Loads**  
 Ultimate Design Wind Speed 115 mph  
 Nominal Design Wind Speed 89.1 mph  
 Risk Cat II  
 (3-Sec Peak Gust MPH\*)  
 Wind Importance Factor I= 1  
 Wind Exposure C  
 Gust Factor 0.85  
 Exterior components designed in accordance with applicable provisions of the ASCE 7-10



CHECK BOX	OPTIONS	PAGE
X	STANDARD RED W/ COOL ROOF	1
	COOL GRAY COLOR W/ COOL ROOF	1B



1/2" POCKET ROUTED CLEAR GLOSS ACRYLIC WORDMARK W/ **#2114 'BLUE'** ACRYLIC GLUED TO SURFACE

1/2" POCKET ROUTED CLEAR GLOSS ACRYLIC FLAGSCAPE W/ **#2114 'BLUE'** & **#2793 'RED'** ACRYLIC GLUED TO SURFACE

1/8" ALUM. FACE **PAINTED MAP 'GARBO SILVER'** FULL GLOSS W/ CLEAR GLOSS COAT W/ ROUTED OUT GRAPHICS

ALUM. REVEAL PANEL IS **PAINTED PMS #425**

STAINLESS STEEL DOUBLE BITTED CAMLOCK (COMPX #29058) - RIGHT HAND SIDE

ALUM. CLADDING IS **PAINTED MAP #MP49696 'RED' W/ FINE STIPPLE FINISH ON ALL EXPOSED SURFACES**

WORDMARK IS **SURFACE APPLIED 3M VINYL #3632-8222 'BoA BLUE'**

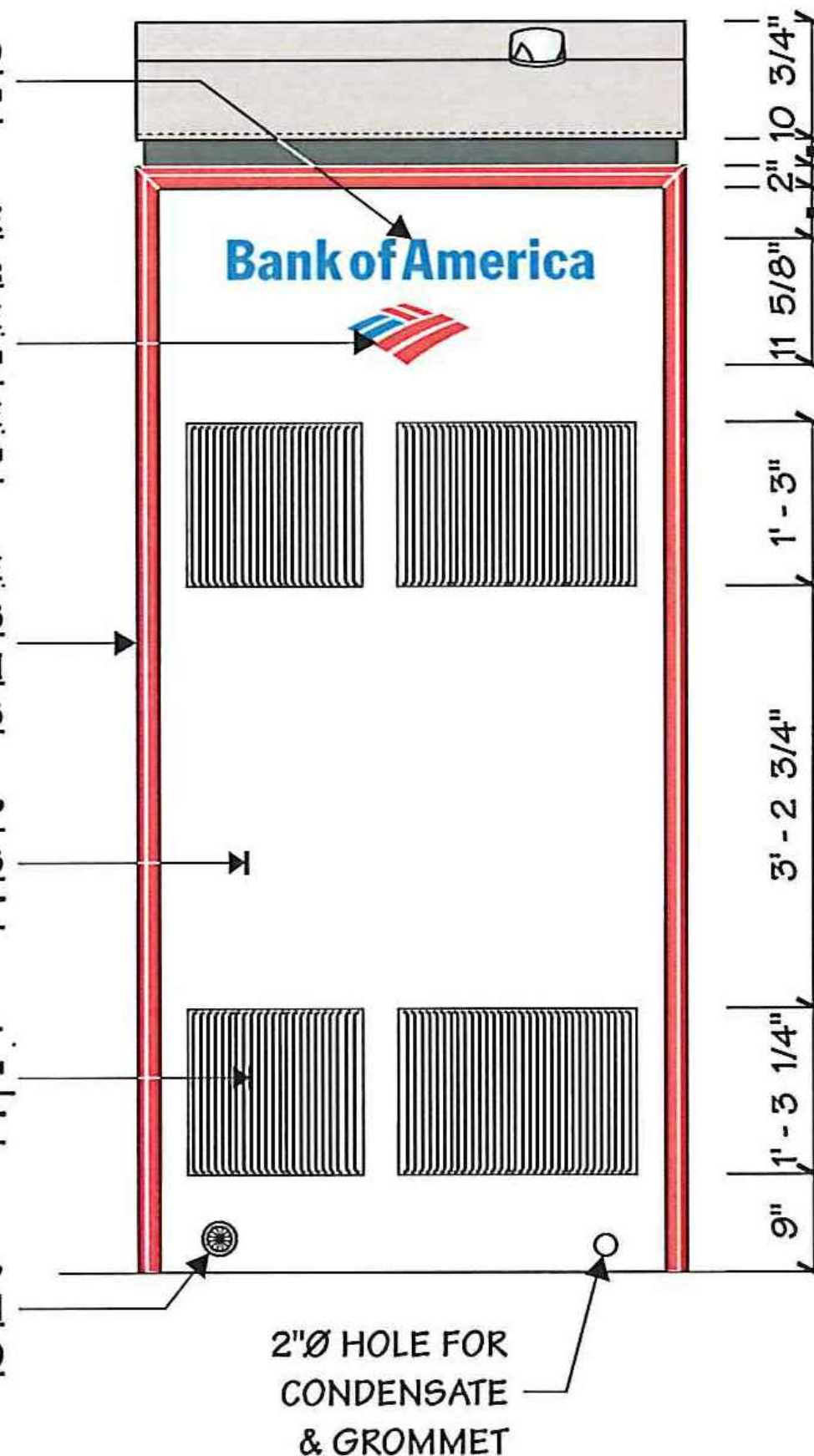
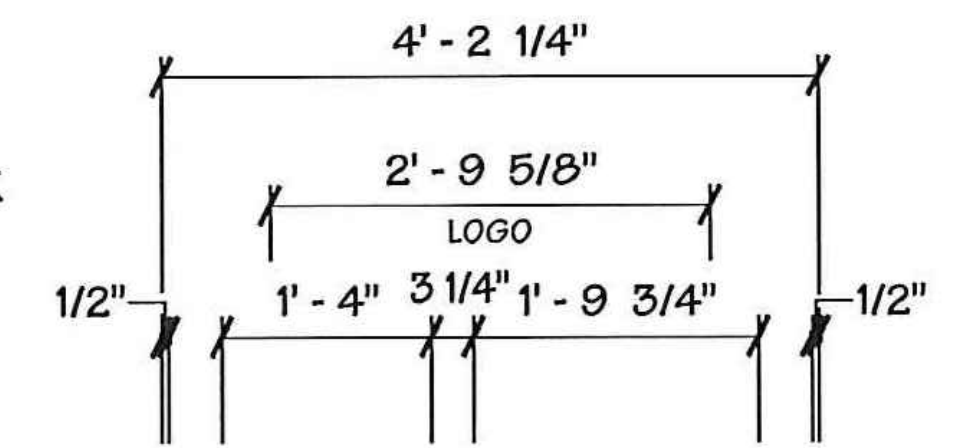
FLAGSCAPE IS **SURFACE APPLIED VINYL AS FOLLOWS:**  
 -(2) LEFT PETALS ARE **#3632-8222 'BoA BLUE'**  
 -(4) RIGHT PETALS ARE **#3632-2472 'BoA RED'**

.090" FABRICATED ALUM. FRAME **PAINTED MAP #MP49696 'RED' W/ FINE STIPPLE FINISH ON ALL EXPOSED SURFACES**

.090" ALUM. PANEL **PAINTED MAP 'GARBO SILVER' FULL GLOSS W/ CLEAR GLOSS COAT**

PUNCHED ALUM. LOUVERS - **PAINTED MAP 'GARBO SILVER' FULL GLOSS W/ CLEAR GLOSS COAT**

2 3/8" Ø SNAP-IN FLEXIBLE CABLE, GROMMET **CABLEORGANIZERS.COM PN #MTO0209**



.118 PLASKOLITE FABBACK CLEAR ACRYLIC MIRROR PANEL W/ AR COATING & SECOND SURFACE ETCHED BACKLIT GRAPHICS OUT OF MIRRORRED BACKGROUND W/ **#3635-70 DIFFUSER FILM**

.090" ALUM. HINGED ACCESS DOOR W/ CAMLOCK **PAINTED MAP #MP49696 'RED' W/ FINE STIPPLE FINISH**

.090" FABRICATED ALUM. FRAME **PAINTED MAP #MP49696 'RED' W/ FINE STIPPLE FINISH ON ALL EXPOSED SURFACES**

.063" ALUM. INFILL PANEL **PAINTED MAP 'GARBO SILVER' FULL GLOSS W/ GLOSS CLEAR COAT**

ATM UNIT

'BOA GRAPHIC' **PAINTED MAP TO MATCH PMS #187 'RED' W/ FINE STIPPLE FINISH**

**2 LEFT SIDE VIEW**  
 1 3/8" = 1' - 0"

**1 FRONT ELEVATION**  
 1 3/8" = 1' - 0"

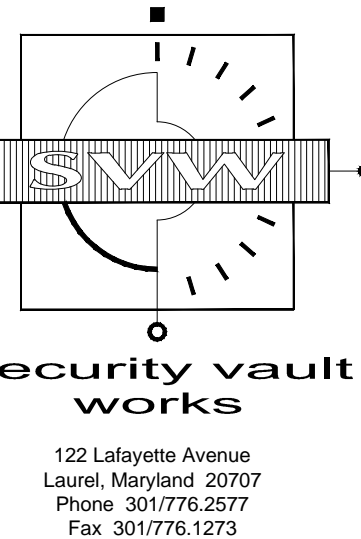
**3 RIGHT SIDE**  
 1 3/8" = 1' - 0"

**4 REAR ELEVATION**  
 1 3/8" = 1' - 0"

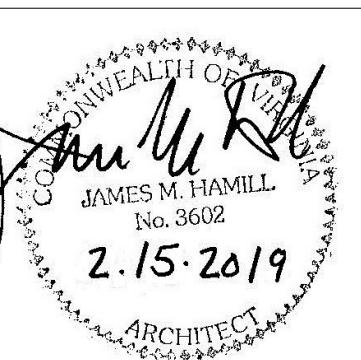
**GENERAL NOTES:**  
 1. FOR STRUCTURAL AND FINISH DETAILS REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS.

Details

Bank of America - Maple Ave. (IVAD0022)  
 418 Maple Ave.  
 Vienna, VA 22180



James M. Hamill  
 580 Decker Drive  
 Irving, Texas 75062  
 Phone: 972-714-0420  
 Fax: 972-714-0282



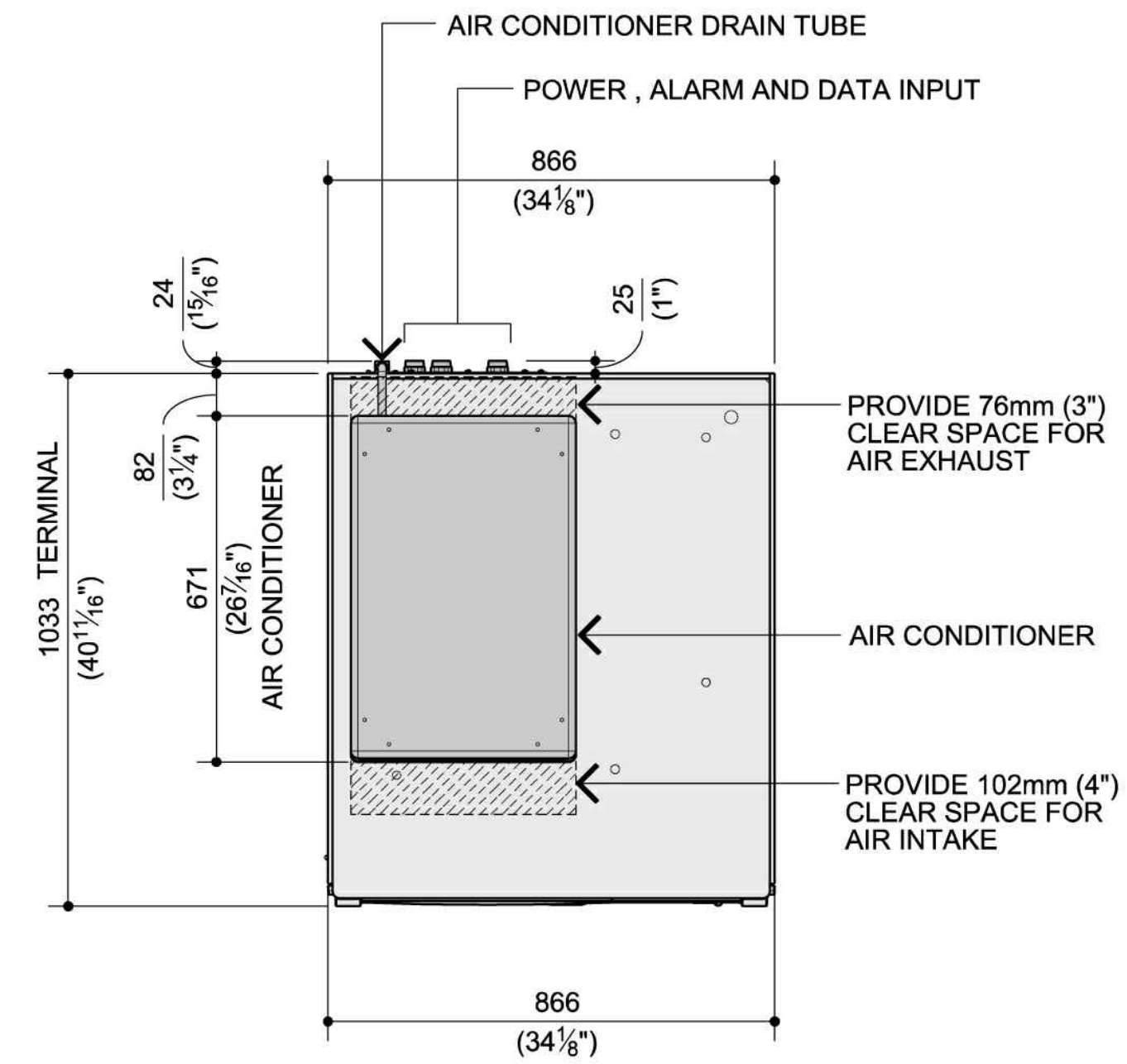
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Date: 12-19-18 Drawn By: DEC

Revisions:  
 1  
 2  
 3

Drawing Number:  
**A.4**  
 SVW Project Number: 10-19-0023  
 Cad File Name: Maple Ave



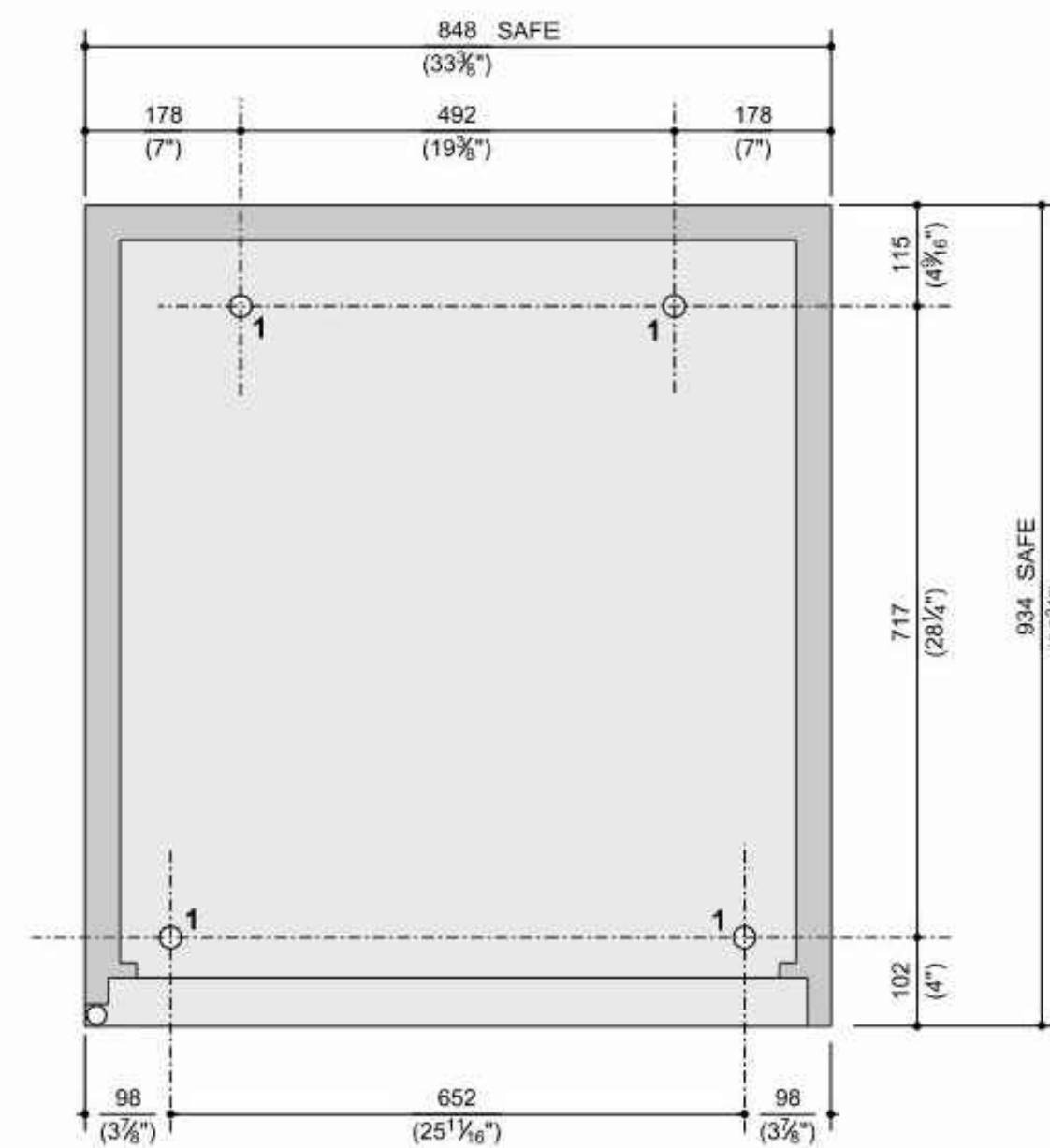


PLAN VIEW

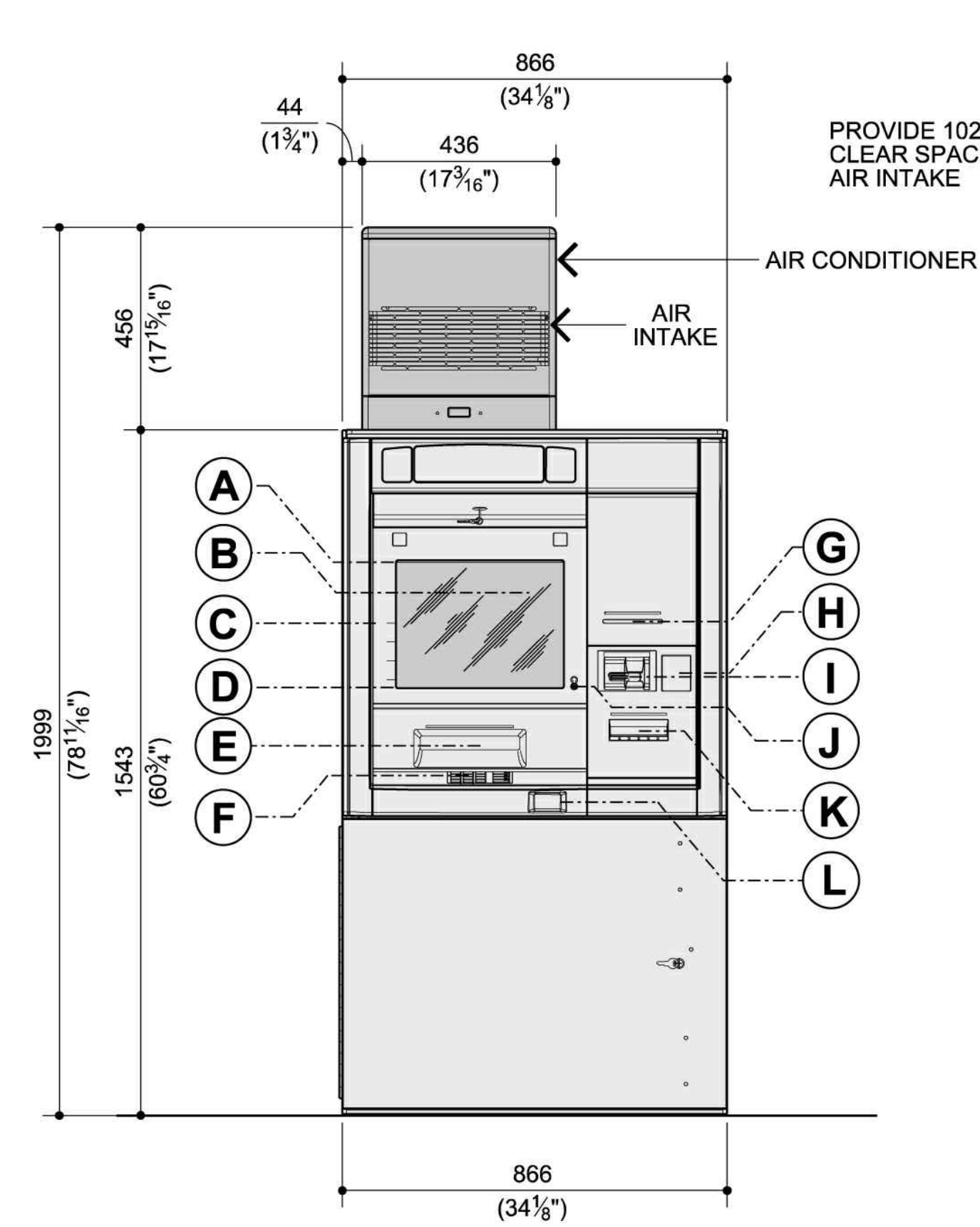
**CONSUMER ACCESS DIMENSIONS**

	HEIGHT	DEPTH
<b>(A)</b> TOP OF CONSUMER DISPLAY (19" DISPLAY)	1245mm (49")	257mm (10 1/8")
<b>(B)</b> B of A TOP TOUCH POINT	1180mm (46 1/16")	234mm (9 3/4")
<b>(C)</b> TOP FUNCTION KEY (19" DISPLAY)	1108mm (43 3/8")	204mm (8 1/16")
<b>(D)</b> BOTTOM OF CONSUMER DISPLAY	963mm (37 15/16")	155mm (6 1/8")
<b>(E)</b> ActivCash	838mm (33")	146mm (5 3/4")
<b>(F)</b> EPP KEY	765mm (30 1/8")	89mm (3 1/2")
<b>(G)</b> RECEIPT PRINTER	1112mm (43 3/4")	74mm (2 15/16")
<b>(H)</b> CONTACTLESS CARD READER	995mm (39 3/16")	74mm (2 15/16")
<b>(I)</b> CARD READER / ActivEdge	987mm (38 7/8")	68mm (2 1/16")
<b>(J)</b> HEADPHONE JACK	965mm (38")	151mm (5 9/16")
<b>(K)</b> ActivMedia	867mm (34 1/8")	74mm (2 15/16")
<b>(L)</b> BAR CODE SCANNER	705mm (27 3/4")	0

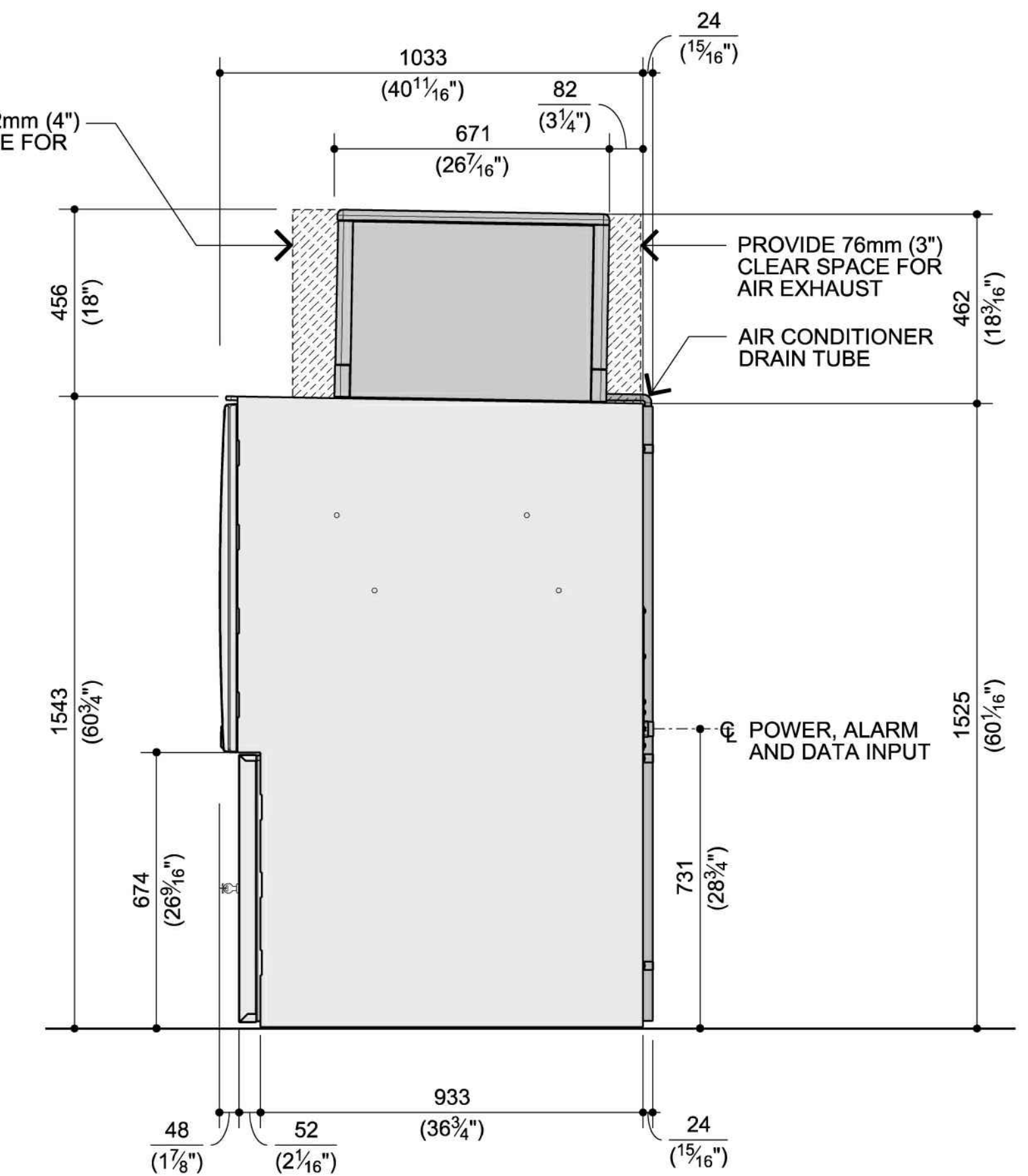
HEIGHT - FROM BOTTOM OF SAFE  
DEPTH - FROM FRONT EDGE OF BEZEL



1 Diebold 7705 Mounting Detail  
A.5 Scale: N.T.S.



FRONT ELEVATION

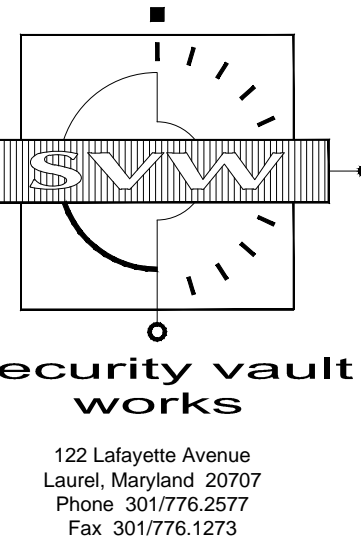


SIDE ELEVATION

2 Diebold 7705 Detail  
A.5 Scale: 1" = 1'-0"

**GENERAL NOTES:**  
1. FOR STRUCTURAL AND FINISH DETAILS REFER TO MANUFACTURER DRAWINGS AND SPECIFICATIONS.

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James M. Hamill  
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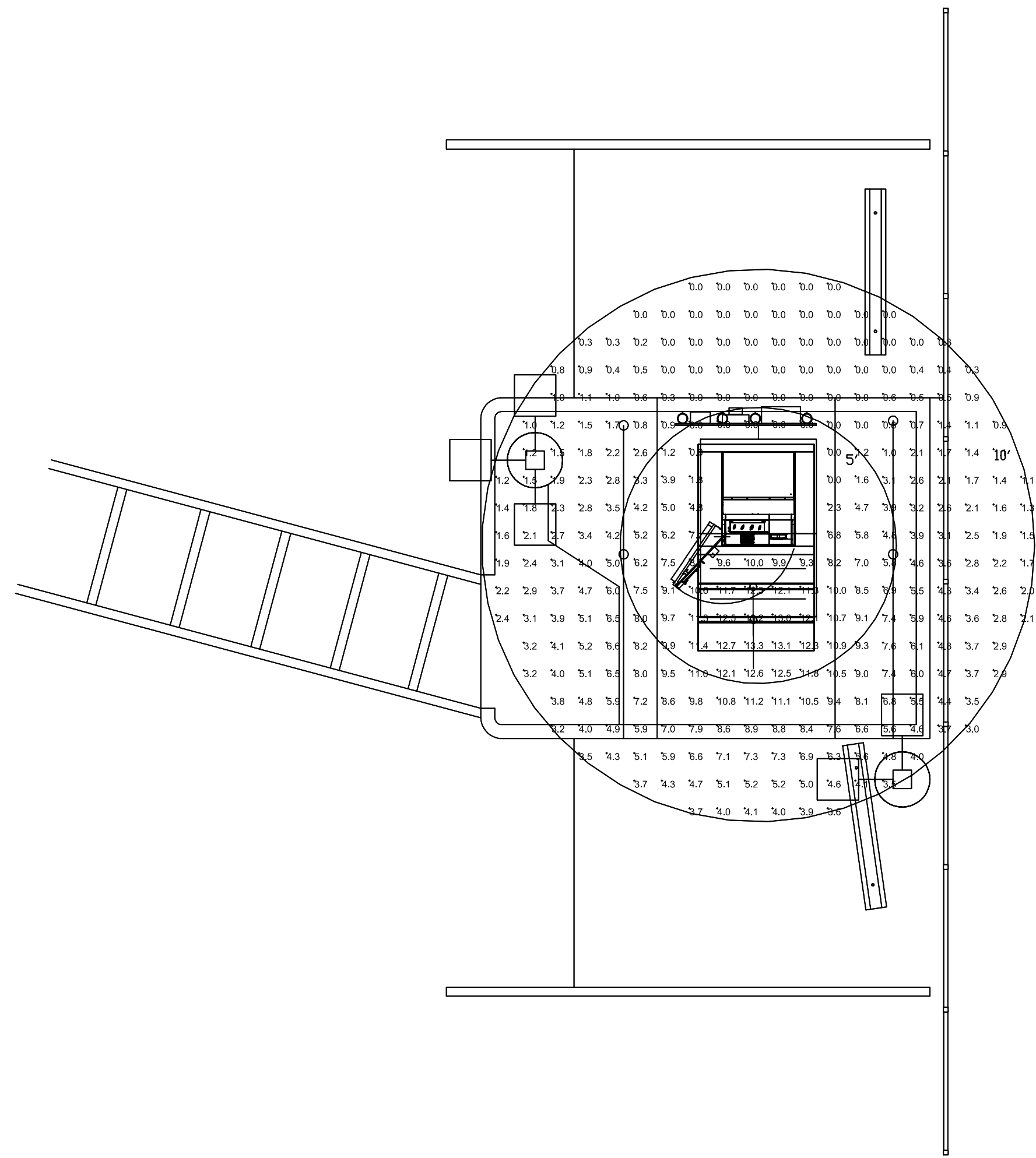
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Date: 12-19-18 Drawn By: DEC

Revisions:

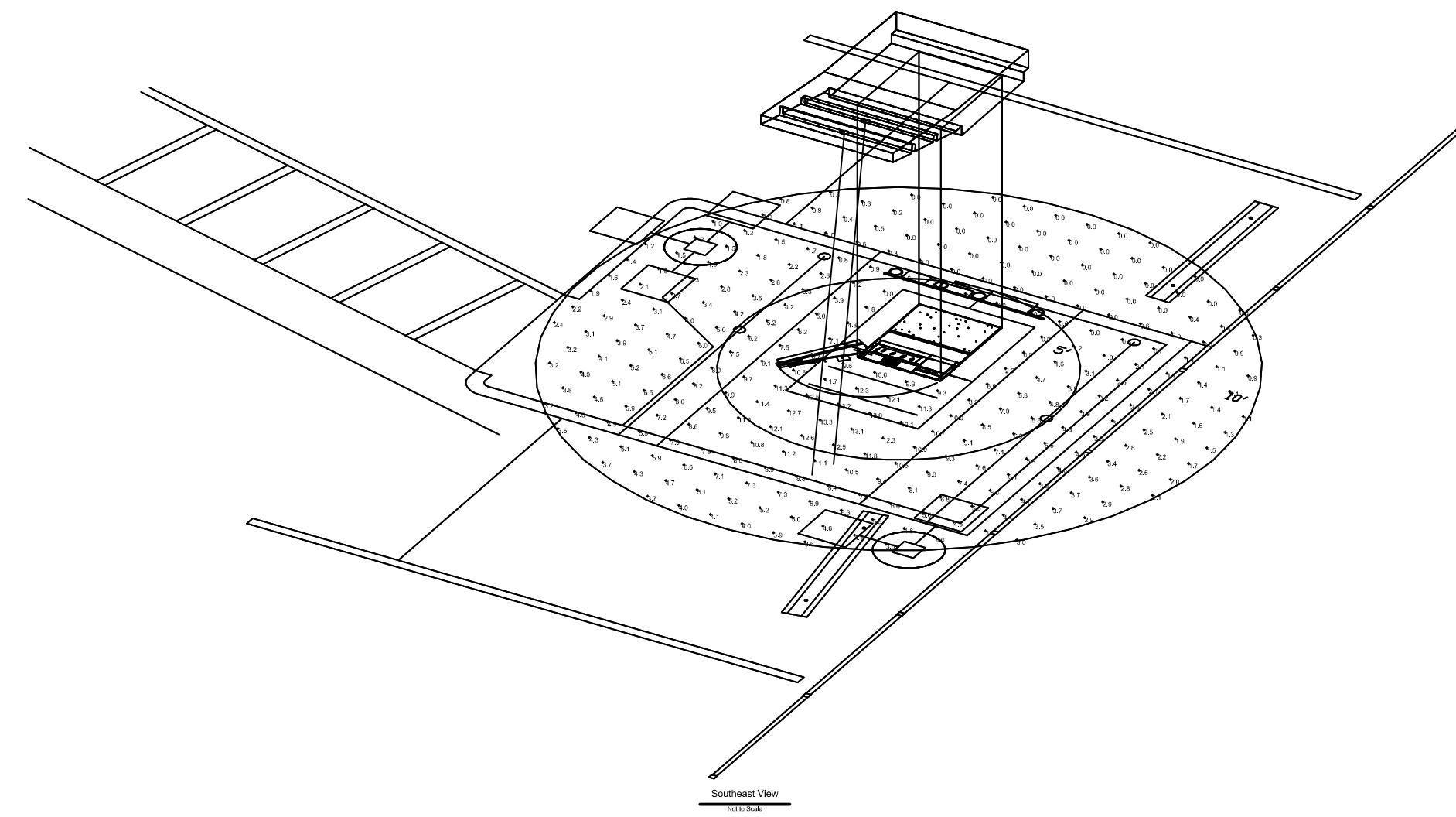
1	3
2	4

Drawing Number:  
**A.5**  
SVW Project Number: 10-19-0023  
Cad File Name: Maple Ave



STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
5' radius	+	7.6 fc	13.3 fc	0.0 fc	N / A	N / A
10' radius	+	3.2 fc	11.2 fc	0.0 fc	N / A	N / A

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	A	2				Batten-2FT+HO-5000K 1-IESNA2002L GEWH2450BA T-no2_tcm201-110883.ies	1000	1.00	14.7



**2**  
E.1 **PHOTOMETRIC PLAN AND INFORMATION**  
SCALE: APPROX 1/4" = 1'-0"

LOAD SUMMARY		LOAD PER NEC ART 220-35 IN KW
NEW ATM KIOSK (AS PER ATM INSTALLATION DRAWING):		
NEW ATM KIOSK (PANEL 'A'):		6.9 KW
TOTAL LOAD:	6.9 KW = 28.8 A @ 240V, 1φ	
INCOMING SERVICE:	100 AMPS @ 120/240V, 1 PHASE, 3 WIRE	

PANEL	BUS SIZE	VOLTAGE	M.L.O.	FLUSH	TYPE
<b>A</b>	<b>100A</b>	<b>120/240</b>	MAIN BRKR.	SURFACE <b>X</b>	LOAD CENTER PANEL PRE INSTALLED IN ENCLOSURE BY MANUFACTURER
		<b>1.3W</b>	<b>100 AMP</b>		

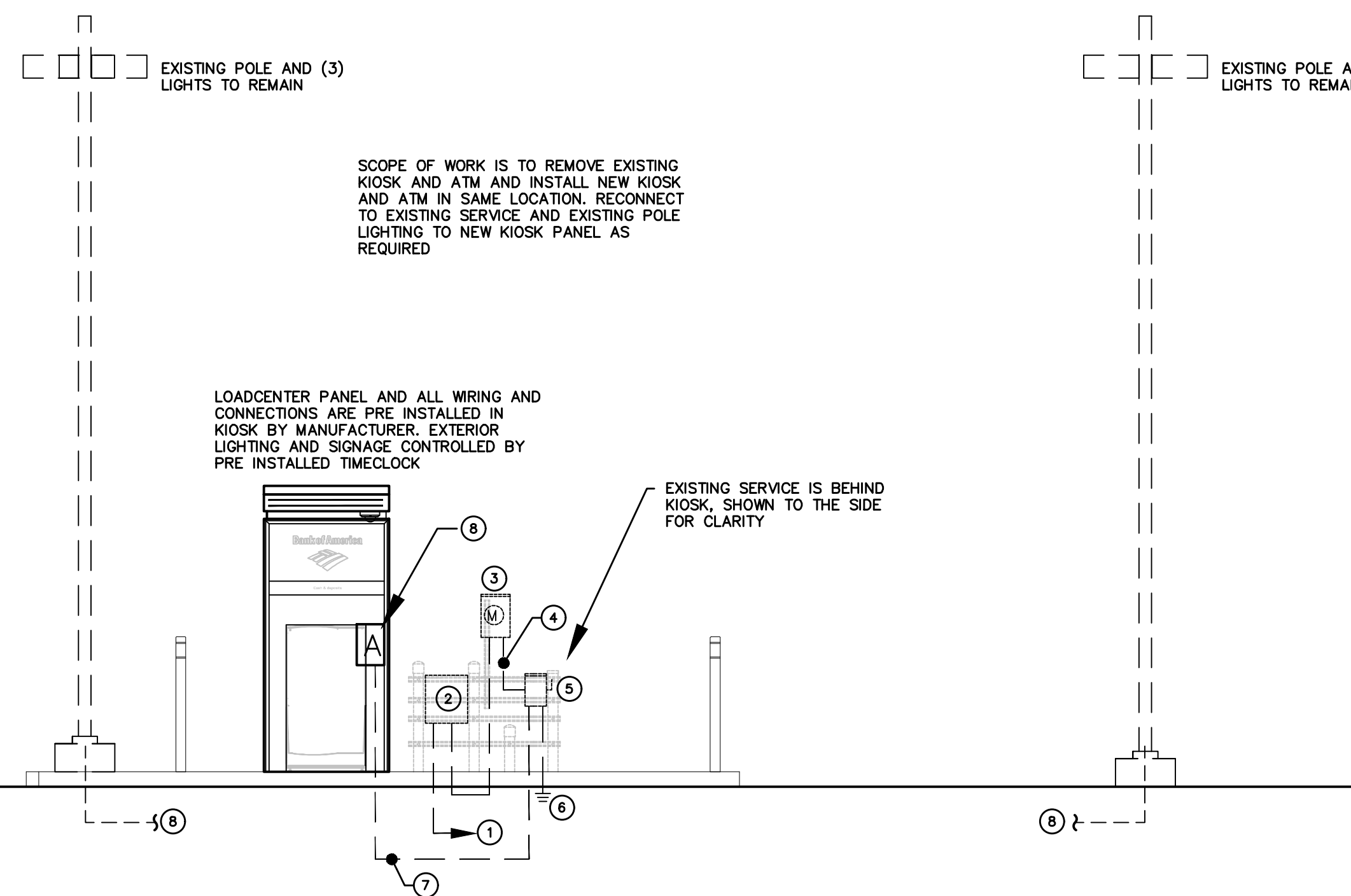
  

C I R	ITEM	A	P	LOAD (kW)		A	P	ITEM	C I R	
				A	B					M
1	MAIN BREAKER	100	2	-	0.2	20	1	UTIL RECEIPT	2	
3	-	-	-	-	-	1.5	20	1	AC/HTR	4
5	EXTER & TOPPER SIGN/ LIGHTS	20	1	0.4	0.5	30	1	TELE/ SECUR	6	
7	SPARE	20	1	-	-	2.5	30	1	ATM	8
9	SITE LIGHTING	20	1	1.8	-	-	20	1	SPARE	10
11	SPARE	20	1	-	-	-	20	1	SPARE	12

PHASE A KW:	2.9
PHASE B KW:	4.0
TOTAL KW:	6.9
CONNECTED LOAD:	28.8 AMPS

REMARKS:  
1. LOAD CENTER SHALL BE RATED FOR AVAILABLE SHORT CIRCUIT CURRENT.



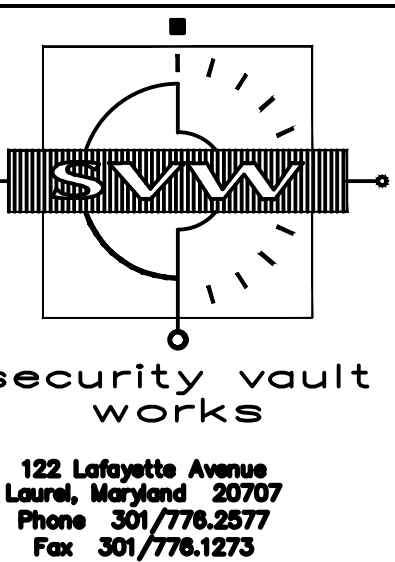
**1**  
E.1 **POWER RISER DIAGRAM**  
SCALE: NONE

**POWER RISER KEYED NOTES**

- EXISTING 100A, 120/240V, 1φ, 3W INCOMING SERVICE FROM POWER COMPANY TO REMAIN
- EXISTING POWER COMPANY PULL BOX TO REMAIN
- EXISTING 100A POWER COMPANY METER TO REMAIN
- EXISTING 100A FEEDER: 3-#3, 1-1/2" C TO REMAIN
- EXISTING 3P-100A DISCONNECT FUSED AT 100A, SERVICE ENTRANCE RATED, TO REMAIN
- EXISTING #6 GROUND AS PER NEC TO REMAIN
- EXISTING 100A FEEDER: 3-#3, 1-#6G, 1-1/2" C TO REMAIN. CONNECT TO NEW KIOSK PANEL AS REQUIRED
- EXISTING LIGHT POLE CIRCUIT, CONNECT TO NEW KIOSK PANEL AS REQUIRED

BANK OF AMERICA - MAPLE AVE (VAD0022)

418 MAPLE AVE  
VIENNA, VA 22180



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Date: 2/05/2019 Drawn By: -

Revisions:  
Drawing Number: E.1  
Project Number: J8W1905  
Cod File Name:

**PROFESSIONAL CERTIFICATION**  
I, JAMES B. WYBLE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.  
LICENSE #: 0402011033, EXPIRATION DATE: DECEMBER 31, 2020

**J. B. WYBLE & ASSOCIATES, P.A.**  
CONSULTING ENGINEERS  
7950 NORFOLK AVENUE  
BETHESDA, MARYLAND 20814  
(301) 654-1410  
Jwyble@jwpa.com

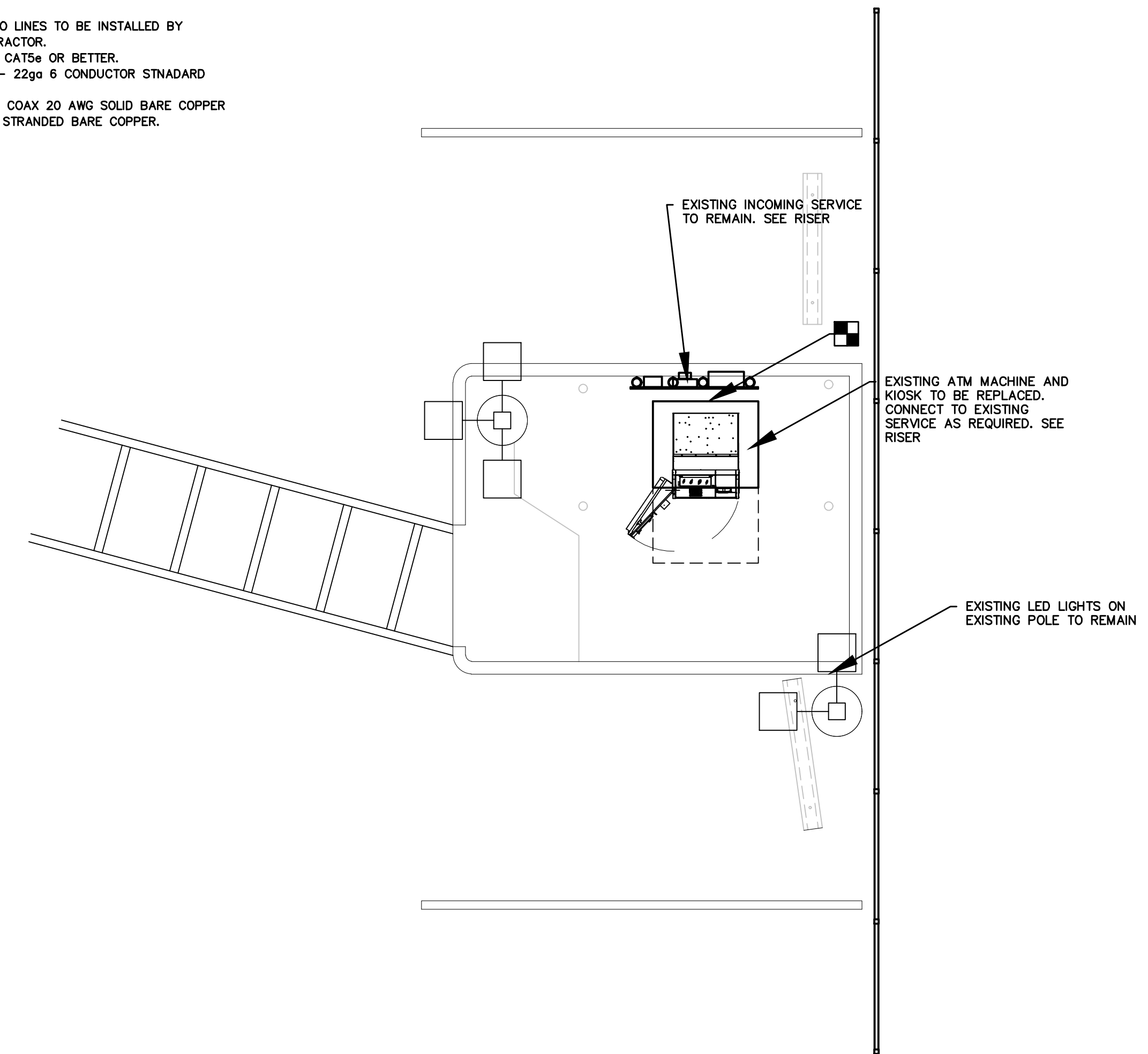
**GENERAL NOTES**

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES NECESSARY FOR THE COMPLETION OF HIS WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE BIDDING.
4. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF HIS BID PRICE.
5. IF, DURING THE COURSE OF THE WORK, THE CONTRACTOR EXPERIENCES A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES AND GOVERNING DOCUMENTS, THE CONTRACTOR SHALL BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR RESOLUTION PRIOR TO EXECUTION OF THE WORK.
6. ALL MATERIAL SHALL BE NEW AND BEAR THE U.L. LABEL LISTED APPROVAL FOR ITS INSTALLED APPLICATION.
7. ALL MAJOR COMPONENTS OF THE ELECTRICAL SYSTEMS SUCH AS SAFETY DISCONNECT SWITCHES, AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER AND SHALL BE ONE OF THE FOLLOWING: SQUARE "D" COMPANY, GENERAL ELECTRIC, OR WESTINGHOUSE.
8. FOR ALL EQUIPMENT RATED 100AMPS OR LESS, E.C. SHALL PROVIDE TERMINATIONS WHICH ARE LISTED FOR USE AT 75°C OR PROVIDE WIRING SIZED USING THE 60°C AMPACITY.
9. PROVIDE "LOCKING" TYPE DEVICE ON CIRCUIT BREAKER CONNECTED TO AFTER HOUR DEPOSIT AND AUTOMATIC TELLER MACHINES.
10. ALL SWITCHES, DUPLEX RECEPTACLES, AND TELEPHONE OUTLETS TO BE FLUSH MOUNTED, THROUGHOUT.
11. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED AS REQUIRED IN ACCORDANCE WITH N.E.C. ARTICLE 250.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ATM SUPPLIER/INSTALLER FOR EXACT LOCATION OF EQUIPMENT.
13. THE CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
14. ELECTRICAL PLANS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS.
15. CONSULT PLANS OF ALL OTHER TRADES FOR COORDINATION AND FOR RELATED AND ADJOINING WORK.
16. ALL DEVICES AND COVERPLATES SHALL BE CONSTRUCTED OF MOLDED NYLON MATERIALS. COLOR OF DEVICES AND MATCHING COVERPLATES SHALL BE AS SELECTED BY THE ARCHITECT.
17. ALL WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF ALL RELATED OR AFFECTED SYSTEMS. ALL POWER OUTAGES SHALL BE COORDINATED WITH OWNER.
18. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM.
19. ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FT. SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
20. ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 100 FT. ON 120/208V CIRCUITS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL FEEDERS AND OVERLOAD DEVICES BASED ON ACTUAL NAMEPLATE RATINGS ON THE EQUIPMENT BEING INSTALLED.
22. ALL NEW EQUIPMENT SHALL BE RATED FOR AVAILABLE SHORT CIRCUIT CURRENT. PLEASE COORDINATE WORK BEFORE ORDERING EQUIPMENT.

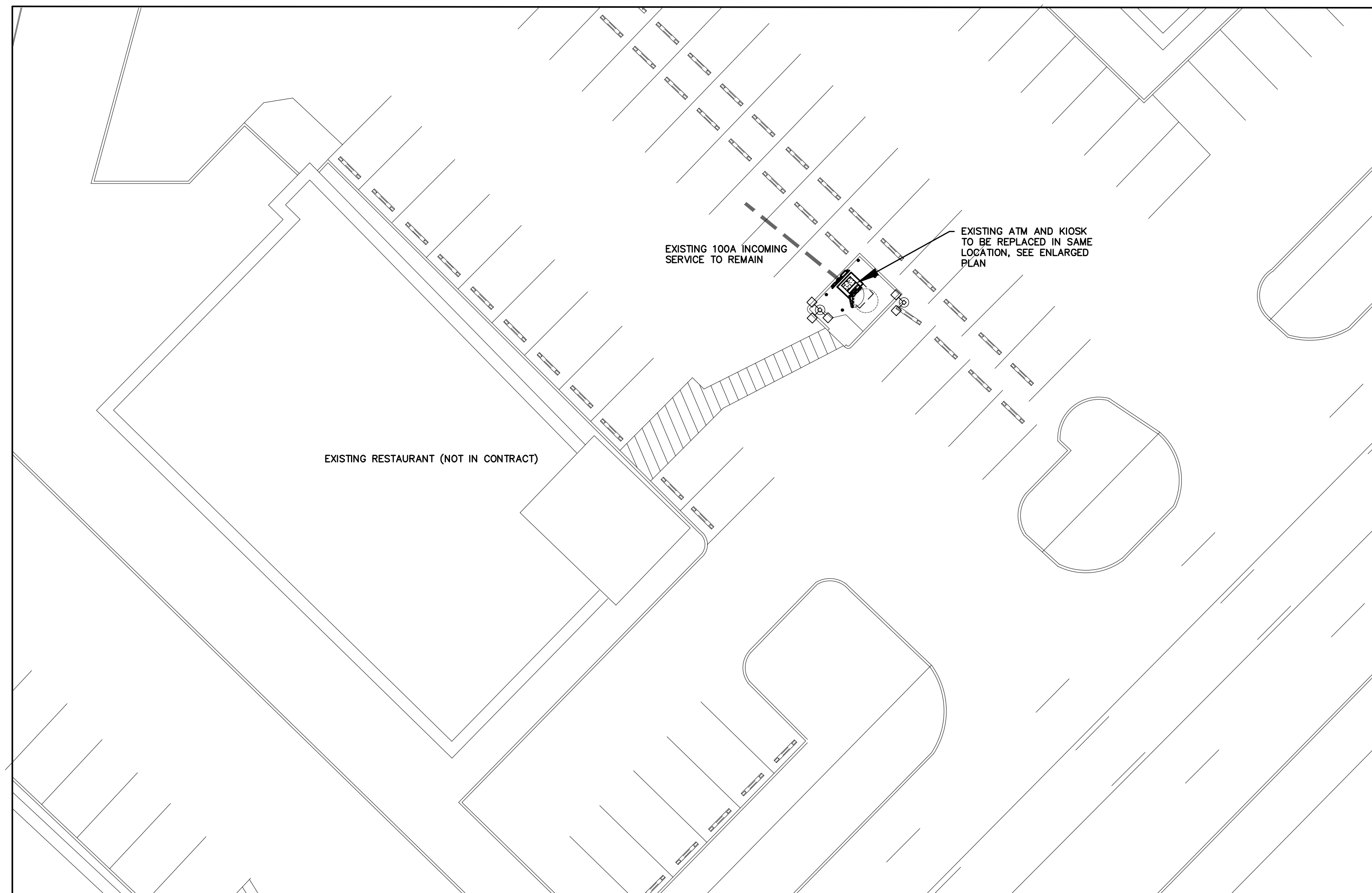
**GENERAL NOTES:**  
1. ALL WORK IS TO BE COORDINATED WITH THE EQUIPMENT MANUFACTURER

**LOW VOLTAGE NOTES:**

1. DATA LINES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
2. ALARM AND VIDEO LINES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
3. 2 DATA LINES - CAT5e OR BETTER.
4. 2 ALARM LINES - 22ga 6 CONDUCTOR STANDARD PLENUM.
5. 2 VIDEO LINES - COAX 20 AWG SOLID BARE COPPER 16/30 STANDARD STRANDED BARE COPPER.



**1 ELECTRICAL PLAN**  
E.2 SCALE: APPROX 1/4" = 1'-0"



**3 VICINITY PLAN**  
E.2 SCALE: APPROX 1/64" = 1'-0"

**ELECTRICAL SYMBOL LIST**

- EXISTING EQUIPMENT TO REMAIN
- NEW EQUIPMENT
- CONNECT NEW TO EXISTING

**JOB RESPONSIBILITY:**

- PROVIDE ADEQUATE STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING THE PROGRESS OF THE WORK.
- BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIAL AND EQUIPMENT EMPLOYED IN THE ELECTRICAL INSTALLATION UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT SAME FROM ANY CAUSE WHATSOEVER.
- BE RESPONSIBLE FOR THE REPLACEMENT OF ALL DAMAGED OR DEFECTIVE WORK, MATERIALS OR EQUIPMENT. DO NOT INSTALL SENSITIVE OR DELICATE EQUIPMENT UNTIL MAJOR CONSTRUCTION WORK IS COMPLETED.
- OBSERVE AND CONFORM TO APPLICABLE SAFETY REGULATIONS, INCLUDING THOSE REQUIRED BY THE OWNER'S REPRESENTATIVE.
- ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS FOR THE PROTECTION OF OCCUPANTS, TRANSIENTS AND WORKMEN FROM DANGER DUE TO WORK PERFORMED BY THE ELECTRICAL CONTRACTOR.
- MAKE GOOD ANY DAMAGE TO THE WORK CAUSED BY FLOODS, STORMS, ACCIDENTS, ACTS OF GOD, ACTS OF NEGLIGENCE, STRIKES, VIOLENCE OR THEFT UP TO THE TIME OF FINAL ACCEPTANCE BY THE OWNER.
- BE RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE OR ANY OTHER CAUSES ON THE PART OF THE EMPLOYEES.
- DO NOT LEAVE ANY ELECTRICAL WORK IN A HAZARDOUS CONDITION, EVEN TEMPORARILY.
- ERECT, MAINTAIN AND FINALLY REMOVE ALL SCAFFOLDS, STAGING, FORMS, PLATFORMS AND LADDERS REQUIRED FOR THE ELECTRICAL INSTALLATION.
- DO NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE AND THE OWNER. A WRITTEN REQUEST FOR EXTRA WORK SHALL STATE THE NATURE OF THE WORK, BY WHOM REQUESTED, AND THE PRICE TO BE CHARGED.

**PROFESSIONAL CERTIFICATION**

I, JAMES B. WYBLE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

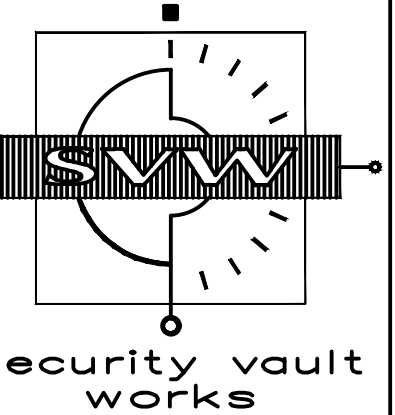
LICENSE #: 0402011033, EXPIRATION DATE: DECEMBER 31, 2020

**J. B. WYBLE & ASSOCIATES, P.A.**

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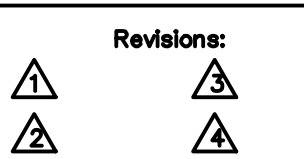
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Date: 2/05/2019 Drawn By: -



Revisions:

Drawing Number:

E.2

Project Number: JBW1905

Cad File Name: