



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**

**CITY COUNCIL MEETING**  
**7:00 p.m. TUESDAY, OCTOBER 5, 2021**  
**MARYVILLE MUNICIPAL CENTER**

7:00 P.M.

CITY COUNCIL

CALL TO ORDER

ROLL CALL

INVOCATION

APPROVAL OF MINUTES

HEAR CITIZENS

PRESENTATIONS

BUSINESS

Individuals with disabilities who require accommodations for participation in meetings must request accommodations at least 72 hours ahead of the scheduled meeting. Contact the ADA Coordinator, at (865) 273-3430 or email at [lblackwood@maryville-tn.gov](mailto:lblackwood@maryville-tn.gov)

Meeting attendees who have difficulty hearing can sign out an assisted listening device prior to the meeting. Please let a member of staff know before the meeting starts in order to use a device.

1. CONSIDERATION OF AN ORDINANCE ON SECOND READING AMENDING THE FY22 ANNUAL OPERATING BUDGET RELATIVE TO SCHOOL FEDERAL FUNDS.
2. A RESOLUTION AUTHORIZING THE SPECIAL EVENT “UNCORKED” TO BE HELD FROM 4:30 PM UNTIL 10 PM, NOVEMBER 4, 2021.
3. CONSIDERATION OF A MOTION TO REQUEST AUTHORIZATION TO INITIATE CONDEMNATION PROCEEDINGS OF 0.063 ACRES FOR THE PINEWOOD DRIVE DRAINAGE IMPROVEMENTS PROJECT.
4. CONSIDERATION OF A MOTION TO APPROVE A SOLE SOURCE PURCHASE OF A FIRE DRILL TRAINING TOWER.

Maryville, Tennessee  
September 7, 2021  
7:00 P.M.

## REGULAR MEETING

The Maryville City Council convened for a regular business meeting on September 7, 2021 at 7:00 p.m. at the Maryville Municipal Center when the following members were present and answered roll call: Mayor Andy White presiding, Councilmembers Sarah Herron, Tommy Hunt, Fred Metz and Drew Miles. Also present were City Manager Greg McClain, City Recorder Sherri Phillips, and City Attorney Melanie Davis. The Mayor declared a quorum to be present.

Thereupon, it was moved by Councilmember Hunt and seconded by Councilmember Herron to approve the minutes from the August 3, 2021 Council Meeting. On roll call the vote was unanimous.

At this time, Mayor Andy White acknowledged the following employees for their years of service to the City of Maryville:

Rusty Thompson – Development Services, twenty-six years  
Tammy Hankinson – Financial Services, twenty-three years  
Debbie Ryan – Financial Services, forty years

THEREUPON, THE FOLLOWING PROCEEDINGS WERE HAD AND ENTERED OF RECORD TO-WIT:

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on second reading:

AN ORDINANCE AMENDING THE ANNUAL BUDGET OF  
THE CITY OF MARYVILLE, TENNESSEE FOR FISCAL YEAR  
2022.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Hunt that said ordinance be passed on second reading. On roll call the vote was unanimous. The Mayor

declared that said ordinance had been adopted. The ordinance was signed by the Mayor and City Recorder. The Mayor ordered said ordinance numbered 2021-37 and recorded in the Ordinance Book of the City.

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on second reading:

AN ORDINANCE TO ABANDON A PORTION OF AN ALLEY  
LOCATED BETWEEN BOARDMAN AVENUE AND BARNES  
AVENUE AND DESIGNATED AS ALLEY #238.

Thereupon, it was moved by Councilmember Miles and seconded by Councilmember Hunt that said ordinance be passed on second reading. On roll call the vote was unanimous. The Mayor declared that said ordinance had been adopted. The ordinance was signed by the Mayor and City Recorder. The Mayor ordered said ordinance numbered 2021-38 and recorded in the Ordinance Book of the City.

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on first reading:

AN ORDINANCE AMENDING THE ANNUAL OPERATING  
BUDGET RELATIVE TO SCHOOL FEDERAL FUNDS.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Herron that said ordinance be passed on first reading. On roll call the vote was unanimous. Thereupon, the Mayor declared that said ordinance had passed on first reading.

Thereupon, the following resolution was presented, considered, and placed for adoption:

A RESOLUTION AUTHORIZING THE SPECIAL EVENT  
“DOWNTOWN HOG RALLY” TO BE HELD FROM 5 PM - 11  
PM, SEPTEMBER 30, 2021.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Miles that said resolution be adopted. On roll call the vote was unanimous. The Mayor declared that said resolution had been adopted. The resolution was signed by the Mayor and City Recorder. The Mayor ordered said resolution numbered 2021-13 and recorded in the Resolution Book of the City.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Hunt to consider a motion to authorize a contract for GIS aerial mapping services with Pictometry International Corporation in the amount of \$90,376 in FY2022 and with future options for FY2026 contingent on approval of budget. Upon roll call the vote was unanimous.

Thereupon, it was moved by Councilman Hunt and seconded by Councilman Metz to approve the appointment of Steve West and Keri Prigmore to the Blount County Coordinating Committee with term to expire September 2023. On roll call the vote was unanimous.

Thereupon, there being no further business, the Mayor adjourned the meeting until the next scheduled meeting unless sooner called by the Mayor or as otherwise provided by law.

---

Mayor

Attest:

---

City Recorder



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**  
**(865) 273-3401**

## AGENDA ITEM BACKGROUND

### 1. CONSIDERATION OF AN ORDINANCE ON SECOND READING AMENDING THE FY22 ANNUAL OPERATING BUDGET RELATIVE TO SCHOOL FEDERAL FUNDS.

#### **A) Introduction:**

On June 17, 2021, City Council adopted Ordinance 2021-28 establishing the FY 2022 Annual Operating Budget for Maryville City Schools effective July 1, 2021. *Tennessee Code Annotated* Title 6 Chapter 56 Section 208 allows the governing body to amend the annual budget ordinance in the same manner as any other ordinance may be amended.

#### **B) Financial Impact of Action:**

The FY22 revenue and appropriation for General Purpose Schools increased by \$46,000 from \$58,398,249 to \$58,444,249.

The net increase in General Purpose Schools is funded by an increase in the allocation of the Tennessee Department of Education Basic Education Program of \$46,000.

The FY22 revenue and appropriation for Federal Funds increased by \$1,688,898.79 from \$6,812,718.51 to \$8,501,617.30.

The net increase of \$ 1,688,898.79 in Federal funds is funded by an increase in new and re-allocated state and federal revenues. The FY22 CTE Perkins Reserve Regional Career Grant increased by \$144,317.82. The FY22 Carl Perkins Reserve Pathways to High School Grant increased by \$13,229.43. The FY22 Title I Grant increased by \$2,301.72. The FY22 Title III Grant increased by \$5,133.96. The FY22 IDEA Part B Grant increased by \$144,359.92. The FY22 IDEA Preschool Grant increased by \$ 4,695.08. The FY22 ESSER 2.0 Grant decreased by \$391,219.35. The Epidemiology & Lab Grant is a new allocation of \$1,470,700.35. The American Rescue Plan IDEA Part B Grant is a new allocation of \$276,917.99. The American Rescue Plan IDEA Preschool Grant is a new allocation of \$18,461.87.

The amended FY 2022 Maryville City Schools annual budget is increased by \$1,734,899 from \$68,841,743 to \$70,576,642 for all funds.

#### **C) Impact of Action on Other Departments/Agencies:**

The FY22 budget amendment was approved by the Maryville City Schools Board of Education on August 9, 2021.

#### **D) Proposed Action:**

Approval by the Council of the City of Maryville upon reading.

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AMENDING THE FY22 ANNUAL OPERATING  
BUDGET RELATIVE TO SCHOOL FUNDS.**

**WHEREAS**, the budget process is one of the most important activities undertaken by governments for the public welfare with the budget process being used to make program, service and capital decisions and allocate scarce resources to programs, services and capital;

**WHEREAS**, *Tennessee Code Annotated* Title 6 Chapter 56 Section 208 allows the governing body to amend the annual budget ordinance in the same manner as any other ordinance may be amended;

**WHEREAS**, *Tennessee Code Annotated* Title 9 Chapter 1 Section 116 requires that all funds first be appropriated before being expended and that only funds that are available may be appropriated;

**WHEREAS**, the Municipal Budget Law of 1982 requires that the governing body of each municipality adopt and operate under an annual budget ordinance presenting a financial plan with at least the information required by that state statute, that no municipality may expend any moneys regardless of their source except in accordance with a budget ordinance and that the governing body shall not make any appropriation in excess of estimated available funds;

**WHEREAS**, the budget ordinance is the legal document whereby the governing body appropriates funds and thereby gives the legal authority for expenditures of the City as required by state law;

**NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF MARYVILLE, TENNESSEE** as follows:

**SECTION 1:** General Purpose Schools anticipated revenues and appropriations will be increased by \$ 46,000 to maintain a balanced budget as required by *Tennessee Code Annotated* Title 9 Chapter 1 Section 116.

<b>Increased/Decreased for FY22:</b>	<b>REVENUE</b>	<b>APPROPRIATION</b>
Basic Education Program	\$46,000	\$46,000
<b>Total Change</b>	<b>\$46,000</b>	<b>\$46,000</b>

The increase in the Basic Education Program (BEP) is due to a revision in the allocation by the Tennessee Department of Education.

**SECTION 2:** Federal Funds anticipated revenues and appropriations will be increased by \$1,688,898.79 to maintain a balanced budget as required by *Tennessee Code Annotated* Title 9 Chapter 1 Section 116.

<b>Increased/Decreased for FY22:</b>	<b>REVENUE</b>	<b>APPROPRIATION</b>
C. Perkins Reserve Regional Career	\$144,317.82	\$144,317.82
C. Perkins Reserve Pathways to HS	13,229.43	13,229.43
Title I	2,301.72	2,301.72
Title III	5,133.96	5,133.96
IDEA Part B	144,359.92	144,359.92
IDEA Preschool	4,695.08	4,695.08
ESSER 2.0	(391,219.35)	(391,219.35)
Epidemiology & Lab Grant (ELC)	1,470,700.35	1,470,700.35
ARP IDEA Part B	276,917.99	276,917.99
ARP IDEA Preschool	18,461.87	18,461.87
<b>Total Change</b>	<b>\$1,688,898.79</b>	<b>\$ 1,688,898.79</b>

The increases in various Federal funds are due to new and re-allocated state and federal dollars for FY22.



**SECTION 3:** That the provisions of the Ordinance shall be effective from and after its final passage, the public welfare requiring it.

ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_

Mayor

ATTEST:

\_\_\_\_\_

City Recorder

APPROVED AS TO FORM:

\_\_\_\_\_

City Attorney

Passed 1<sup>ST</sup> reading on this \_\_\_\_\_ day of \_\_\_\_\_, 2021. \_\_\_\_\_

City Recorder

Passed 2<sup>nd</sup> reading on this \_\_\_\_\_ day of \_\_\_\_\_, 2021. \_\_\_\_\_

City Recorder



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**  
**(865) 273-3401**

## AGENDA ITEM BACKGROUND

2. A RESOLUTION AUTHORIZING THE SPECIAL EVENT “UNCORKED” TO BE HELD FROM 4:30 PM UNTIL 10 PM, NOVEMBER 4, 2021.

- A) **Introduction:** The Maryville Downtown Association will hold UnCorked, its annual fundraising event – including wine tasting on November 4, 2021 from 4:30 – 10 p.m..

The locations will be *inside* 133 (Whitestar Station) and 127 W. Broadway Avenue (Capitol Theater).

In order to connect the locations and allow patrons to go from one venue to the other with wine samples, the association has requested Council approval to use the public sidewalk in front of 133 and 127 as well as the sidewalk that extends beyond 123 W. Broadway (former River of Life Church) to essentially create an outdoor patio and entry area for the two venues.

An additional private VIP event will be held at 101 E. Broadway Ave (Skyview at Broadway Social) which will not include any public space.

- B) **Financial Impact of Action:** No financial impact expected. Required Police or Security officers will be paid by the event.

- C) **Impact of Action on Other Departments/Agencies:** Police Dept. will approve sidewalk closure to ensure proper ADA accessibility for regular pedestrian traffic. The road will not be closed. MDA plans to use the loading zone for UBER and ride drop-offs/pickups. MDA is expected to communicate all plans with adjacent and affected businesses.

Wine will be served in plastic containers (no glass) if on public property and licensed bartenders will be serving compliant with the rules set forth by the event’s state-issued permit inside the building.

- D) **Proposed Action:** Pass the proposed resolution – which will allow the requested public consumption activity at this specified location within the city’s “special event zone.” (See map.) The event is contingent on proof of a state-issued permit.

**RESOLUTION NO. \_\_\_\_\_**

**A RESOLUTION AUTHORIZING THE SPECIAL EVENT “UNCORKED”  
TO BE HELD FROM 4:30 PM UNTIL 10 PM, NOVEMBER 4, 2021.**

**BE IT RESOLVED BY THE COUNCIL OF THE CITY OF MARYVILLE, TENNESSEE,**  
as follows:

**WHEREAS,** the Council has passed an ordinance allowing for City allowance of Special Events within the Special Events Zone, and;

**WHEREAS,** the Staff recommends approval of “UnCorked” (produced by the Downtown Maryville Association) in downtown Maryville,

**NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF  
MARYVILLE, TENNESSEE as follows:**

**SECTION 1:** That City Council approves the Special Event “UnCorked,” which will be held on November 4, 2021 from 4:30 p.m. until 10 p.m.

**SECTION 2:** That pursuant to ordinance 2013-06 and related ordinances, consumption of alcohol will be permitted within the Special Events Zone according to the attached event map.

**SECTION 3:** That all parties involved will comply with federal and state law as well as City of Maryville ordinances and Special Event rules and regulations

**SECTION 4:** That the resolution will take effect immediately upon its passage.

Adopted this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Recorder

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**  
**(865) 273-3401**

### **AGENDA ITEM BACKGROUND**

**3. CONSIDERATION OF A MOTION TO REQUEST AUTHORIZATION TO INITIATE CONDEMNATION PROCEEDINGS OF 0.063 ACRES FOR THE PINWOOD DRIVE DRAINAGE IMPROVEMENTS PROJECT.**

**A) Introduction:** There are drainage problems in the Pinewood Dr. area that have been exacerbated by development upstream in the watershed both in the City and the County. The City of Maryville has been in the process of designing improvements for this area. The design has been completed and affected owners have agreed to easements on their property for the improvements with the exception of one property owner. The City tried to find an alternate in the design that would not touch the property, but there was no such solution. The property owner has been offered at least 3 times higher than the easement is worth, but that amount is still 20 times off what they say they would accept. At this point, we need to condemn 0.063 acres on parcel ID 069 170.00 in order to move forward on the project and help alleviate drainage issues for all of these property owners. The full project layout is attached, and the property needed to complete the project has been highlighted. The easement description is also attached.

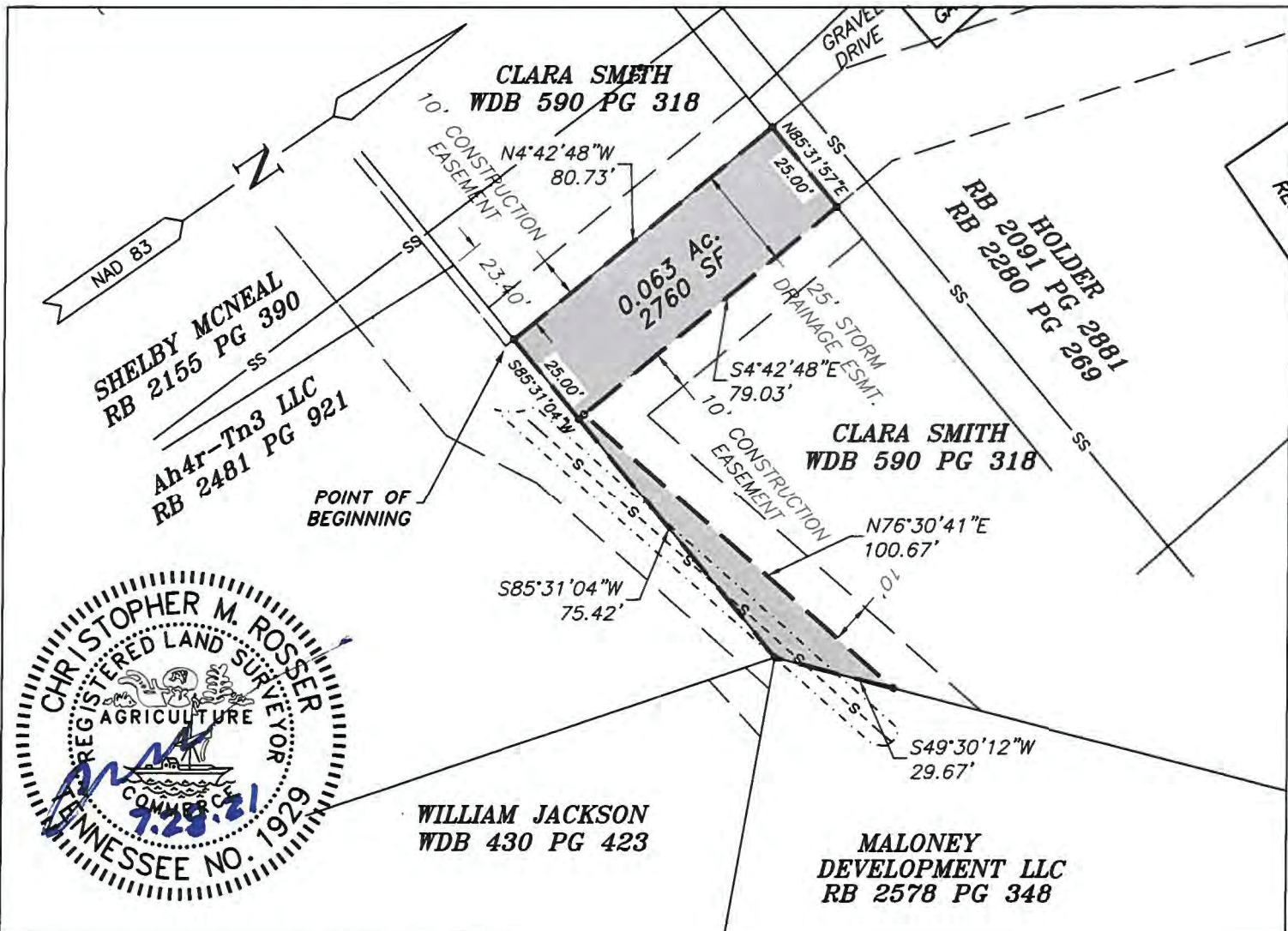
**B) Financial Impact of Action:** The City will also pay the property owner for the value of the property that is used in the drainage project.

**C) Impact of Action on Other Departments/Agencies:** No impact on other City departments.

**D) Proposed Action:** Pass the motion







**LEGAL DESCRIPTION:**

SITUATE in District 8, Blount County, Tennessee, and being a portion of that tract of land as described in Warranty Deed Book 590, PG 318 and being particularly described as follows:

BEGINNING on a point in the common property line between Clara Smith (WDB 590, PG 318 and Ah4r-Tn3 LLC (RB 2481 PG 921), said point being 23.40 feet from the rear property corner between Shelby McNeal (RB 2155, PG 390) and Ah4r-Tn3 LLC (RB 2481, PG 921); thence from said POINT OF BEGINNING the following seven (7) calls on the periphery of the Storm Drainage Easement: 1) N 04-42-48 W, 80.73 feet to a point in the common line between Holder (RB 2091, PG 2881, RB 2280, PG 269) and Clara Smith; thence with said line 2) N 85-31-57 E, 25.00 feet to a point; thence leaving said line 3) S 04-42-48 E, 79.03 feet to a point; 4) N 76-30-41 E, 100.67 feet to a point in the common line between Clara Smith (WDB 590, PG 318) and Maloney Development, LLC (RB 2578, PG 348); thence with said common line 5) S 49-30-12 W, 29.67 feet to a point, being the common property corner between Clara Smith, Maloney Development, LLC, William Jackson (WDB 430, PG 423) and Ah4r-Tn3, LLC (RB 2481, PG 921); thence with the line of Ah4r-Tn3 LLC; 6) S 85-31-04 W, 75.42 feet to a point; 7) S 85-31-04 W, 25.00 feet to the POINT OF BEGINNING, containing 0.063 Acres, 2760 SF, more or less, as described by Christopher M. Rosser, TN RLS #1929 of Sterling Engineering, Inc. 1020 William Blount Drive, Maryville, TN. 37801.

There shall also be a 10 foot construction easement lying on the eastern and western sides of the described easement.

**SURVEYOR'S NOTES:**

1. The purpose of this exhibit is to show the location of a storm drainage easement along the asbuilt location of the drainage pipe. There shall also be a 10 foot construction easement on the outside of the sides of said easment (as shown).
2. No Instruments of Record reflecting easements, rights of way, and/or ownership were furnished to the Surveyor, except as shown hereon. The Surveyor has made no attempt to access the public records for any easements. Subject to any easements, regulations or restrictions in effect at the time of this survey. No title opinion is expressed or implied.
3. This sketch & description drawing is not intended to represent a Boundary or General Property Survey as defined in Chapter 0820-3-.07 as set forth by the Tennessee Board of Land Surveyors pursuant to T.C.A. Title 62-18-106(c), and was performed under the authority of T.C.A. Title 62-18-126.

**LEGEND:**

Ac.	ACRES
SF	SQUARE FEET
WDB	WARRANTY DEED BOOK
PG	PAGE
JB	JUNCTION BOX (DESIGN)
⊗	TREE
—	ROAD RIGHT-OF-WAY LINE
—	LOT LINE
- - -	EASEMENT LINE
—	ROAD CENTERLINE
—	PARKING/LANE STRIPES (EXISTING)
-R-	REINFORCED CONCRETE PIPE (RCP)
—	SEWER LINE (EXISTING)
RB	RECORD BOOK

Prop. Address: 2106 Montvale Road

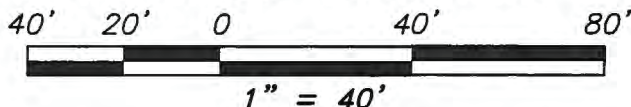
**SKETCH & DESCRIPTION OF  
STORM DRAINAGE EASEMENT  
CLARA SMITH**

TO

**CITY OF MARYVILLE**

JUNE 15, 2021 1"=40'  
DISTRICT 8, BLOUNT COUNTY  
TENNESSEE

WARRANTY DEED BOOK 590 PG 318  
TAX MAP 69, PARCEL 170.00



**STERLING**  
ENGINEERING, INC.  
LAND SURVEYING

CIVIL ENGINEERING, CONSULTING & LAND PLANNING

1020 William Blount Drive, Maryville, Tennessee 37801 (VOL) 984-3905  
Revised 7-27-2021 - kas

SEI#6172-D





**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**

## AGENDA ITEM BACKGROUND

### 4. CONSIDERATION OF A MOTION TO APPROVE A SOLE SOURCE PURCHASE OF A FIRE DRILL TRAINING TOWER.

A) Introduction: To approve a sole source purchase of a Fire Drill Training Tower.

B) Proposed Action: Council is requested to approve a sole source purchase of a fire training tower in the amount of \$90,710.00 from Affordable Drill Towers LLC. This tower has unique features which are not found on other towers. Please see the attached documentation regarding the sole source nature of the tower. Although the total price is below the amount budget, a sole source purchase requires Council approval.

C) Financial Impact of Action: A total of \$110,000 was budgeted and approved in the Capital Projects budget for this tower.

D) Impact of Action on Other Departments/Agencies: N/A

E) Staff Recommendation: Approve the awarding of a sole source contract to Affordable Drill Towers in the amount of \$90,710.00



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**

The City of Maryville Fire Department would like to purchase a fire training drill tower. A Sole Source Letter has been submitted from Affordable Drill Towers for the purchase, manufacture, and installation of the California Drill Tower. This fire training drill tower meets the requirements for ISO Training Towers for Fire Department Classification Points. After a lengthy discovery phase Affordable Drill Towers is the only company with the specs that match the open tower plan requested by the Maryville Fire Department within the United States and North America. Affordable Drill Towers is the sole source for this training tower and especially the California Drill Tower. Attached are written specifications, plans and the Sole Source Letter for the California Drill Tower.

Andrew Puckett  
Captain  
City of Maryville Fire





September 3<sup>rd</sup>, 2021

City of Maryville Fire Department  
Captain Andrew Puckett  
402 W. Broadway Ave.  
Maryville, TN 37801

Re: Affordable Drill Towers, LLC – Sole Source Vendor

This letter is written to confirm that Affordable Drill Towers, LLC is the sole source provider of the following products in the United States:

- 1) ***“Affordable Drill Tower”***
- 2) ***“California Drill Tower”***

Affordable Drill Towers, LLC was formed in September 2016.

Using industrial grade scaffolding, Affordable Drill Towers designed a proprietary training tower by having a Professionally Engineered design that is free-standing and includes an integrated fire suppression system (FDC, standpipes & fire sprinklers), wooden roof props for vertical ventilation, and a segmented floor for vertical rope rescue.

Affordable Drill Towers, LLC is not aware of any other items or products available for purchase that meet the specifications of the products named above. Affordable Drill Towers, LLC determines the prices for above-named products because of its proprietary nature and exclusivity.

Affordable Drill Towers has one distributor of the products above:

Coastal Fire Systems  
16 South Ketcham Ave.  
Amityville, NY 11701  
631-661-7515

For further information, please feel free to contact me at 844-558-6937 or [Steve@AffordableDrillTowers.com](mailto:Steve@AffordableDrillTowers.com).

Yours truly,

Steve Sanguedolce  
President/CEO/Founder  
Affordable Drill Towers, LLC  
844-55-TOWER (office)  
713-443-2549 (mobile)

**SPECIFICATIONS**

**FOR**

**AFFORDABLE DRILL TOWERS, LLC**

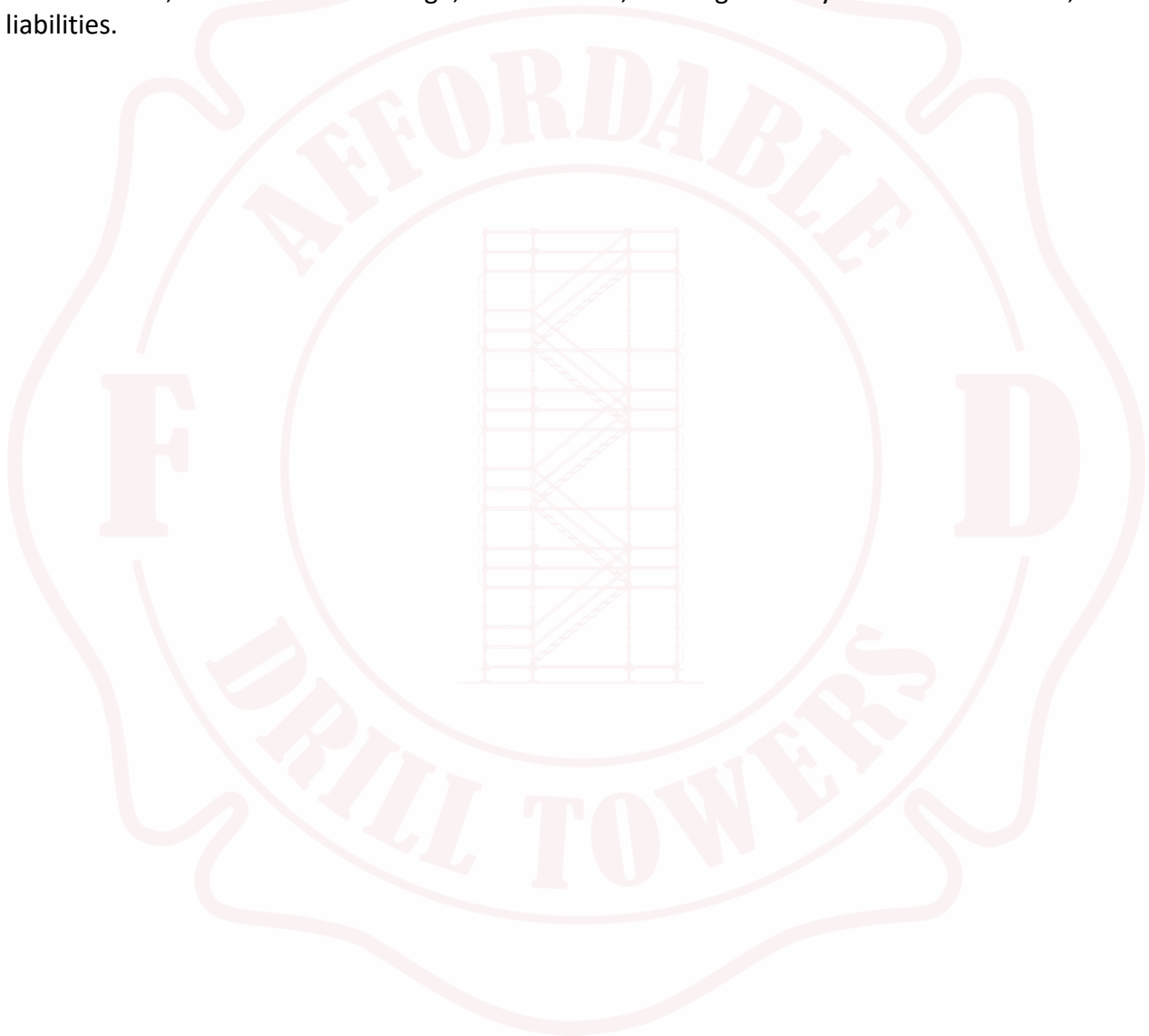
*California Drill Tower*

(a Fire Training Tower)



## NOTICE TO INTERESTED PARTIES

The specifications herein are specific to Affordable Drill Towers, LLC's "California Drill Tower," a fire training tower; any modifications made hereunto are at the direction of the customer, in accordance with OSHA, and approved by a professional engineer. Any changes, modifications, or alterations to any Affordable Drill Tower's products, or components and not agreed to, are not approved. Such changes, modifications, or alterations of design, intended use, or design hereby voids all warranties, claims, and liabilities.



# CALIFORNIA DRILL TOWER

## 1. GENERAL

- 1.1. **PURPOSE:** The purpose of the California Drill Tower is to provide a free-standing, fire training tower, which will allow fire, police, and military instructors train for realistic scenarios, while in a controlled environment.
- 1.2. **DESCRIPTION:** The California Drill Tower is a free-standing, open-design fire training tower.
- 1.3. **DIMENSIONS:** The California Drill Tower is comprised of 5-levels, 3-stories, and has a working height of approximately 34' (feet) to the uppermost floor. The overall height is approximately 38' (feet) to the upper handrails. The standard length is 18' (feet), and the standard width is 13' (feet). The length and width are measured from the center of each vertical leg; the overall length and width are 1' (foot) greater.
- 1.4. **CONSTRUCTION:** The California Drill Tower is constructed of hot-dipped, or pre-treated galvanized, high-strength carbon steel pipe.
- 1.5. **TESTING:** All load supporting components of the California Drill Tower have been third-party tested in accordance EN 12811 Pt. 3, ANSI/SSFI SC100-5/05, AISI 1522, ASTM-A-723 Grade 1, AISI 1030, and AISI 1526.
- 1.6. **INSTALLATION:** The California Drill Tower is assembled and erected on site, by Affordable Drill Towers.
- 1.7. **MAINTENANCE:** At the completion of the installation, a member of Affordable Drill Tower's Installation Team shall provide instruction for use, inspection, and maintenance.
- 1.8. **SAFETY:** At the completion of the installation, a member of Affordable Drill Tower's Installation Team shall provide a copy of Affordable Drill Tower's Safety Guidelines.
- 1.9. **ENGINEERING:** A Professional Engineer (P.E.) stamped drawing will be furnished to the customer, which will include all allowable loads.

# CALIFORNIA DRILL TOWER

## 2. STRUCTURAL

- 2.1. All of the vertical legs, horizontals (single and double), and bracing of the California Drill Tower shall meet the following specifications:
  - 2.1.1. Diameter: 1.90"  $\phi$
  - 2.1.2. Wall Thickness: 0.125"
  - 2.1.3. Yield Strength: 50 ksi
  - 2.1.4. Tensile Strength: 65 ksi
  - 2.1.5. Elongation: 30%
- 2.2. The California Drill Tower shall be constructed using a minimum of twenty (20) vertical legs.
  - 2.2.1. Each leg shall have a minimum compression strength of 16,000 lbs.
  - 2.2.2. Each leg shall have a connection point ("ring") welded the leg every 0.5M (19.685") than can also be used as an Anchor Point for rappelling.
  - 2.2.3. The ring shall be capable of withstanding at least 10,000 lbs. of force when pulling from its center line (axial pull).
  - 2.2.4. Thickness: 0.375"
  - 2.2.5. Yield Strength: 38 ksi
- 2.3. The California Drill Tower shall have horizontal supports installed as per the Engineered design.
  - 2.3.1. All 4' single horizontals shall have a Center Point Load (CPL) of not less than 875 lbs.
  - 2.3.2. All 4' single horizontals shall have a Uniform Distributed Load (UDL) of not less than 1,550 lbs.
  - 2.3.3. All 5' double horizontals shall have a Center Point Load (CPL) of not less than 2,250 lbs.
  - 2.3.4. All 5' double horizontals shall have a Uniform Distributed Load (UDL) of not less than 600 lbs.
- 2.4. Each of the vertical legs of the California Drill Tower shall be supported by a leveling jack. The leveling jack shall be capable of compensating for unlevelled and uneven foundations. The leveling jack shall be permanently welded to a base plate to distribute weight. The base plate shall be at least 5" x 5" in width and length. The leveling jack shall have acme style threads and a "t-handle" style nut, that is capable of being adjusted.
  - 2.4.1. The leveling jacks shall be capable of maintaining 60,000 lbs at 3" of extension.
  - 2.4.2. The leveling jacks shall be capable of maintaining 55,000 lbs at 6" of extension.
  - 2.4.3. The leveling jacks shall be capable of maintaining 50,000 lbs at 9" of extension.
  - 2.4.4. The leveling jacks shall be capable of maintaining 45,000 lbs at 16" of extension.

# CALIFORNIA DRILL TOWER

- 2.5. All flooring on the California Drill Tower shall have an aggressive grip surface extruded or machined into the surface, have a minimum load capacity of 50 lbs per square foot, and must be galvanized.
- 2.5.1.1. All flooring on the California Drill Tower shall allow for quick drainage of water.
- 2.6. The California Drill Tower shall have vertical diagonal bracing installed as per the Engineered design.
- 2.7. The California Drill Tower shall have horizontal diagonal bracing installed as per the Engineered design.
- 2.8. The California Drill Tower shall be free-standing, free of any attachment to the ground, other structures, or guy-wired.
- 2.9. The California Drill Tower shall be capable of withstanding wind speeds up to 150 mph.
- 2.10. The California Drill Tower shall be installed on site and is capable of being relocated by Affordable Drill Towers Installation Team.

## **3. SPECIFICATIONS**

- 3.1. The California Drill Tower shall be a minimum of 13' wide x 18' long.
- 3.2. The California Drill Tower shall be a minimum five (5) levels with a minimum height of 32'.
- 3.3. The California Drill Tower shall have the capability of height and width additions without having to change the original design.
- 3.4. The California Drill Tower shall have a minimum of three (3) floors that have a minimum area of 105 square feet.
- 3.5. The California Drill Tower shall have a minimum of two (2) intermediate landings, that have a minimum area of 65 square feet.
- 3.6. The California Drill Tower shall have a minimum of five (5) internal stairways. Each stairway shall be a minimum of 3'6" in width, and handrails shall be provided for each stairway.
- 3.7. The California Drill Tower shall have an external balcony/instructor's platform, capable of accommodating four (4) individuals.

- 3.7.1. The balcony/instructor's platform shall be installed so that it can be reached with a 24' extension ladder.
- 3.7.2. The balcony/instructor's platform shall have a self-closing gate on the inside perimeter.
- 3.7.3. The balcony/instructor's platform shall be capable of supporting a minimum of 1,000 lbs.
- 3.8. The California Drill Tower shall have 5' double horizontals, with a Center Point Load (CPL) of not less than 2,250 lbs., installed on all elevated levels, at all points of access and egress.
- 3.9. Every floor and landing of the California Drill Tower shall have a minimum of three (3) window openings, with a minimum area of 13.5 square feet.
- 3.9.1. All window openings shall be constructed so that they are points of access and egress.
- 3.10. The 1<sup>st</sup> and 2<sup>nd</sup> floors of the California Drill Tower shall be segmented, with removeable floor panels, so that designated floor panels can be removed for vertical rope rescue.
- 3.11. The California Drill Tower shall have a Fire Suppression System, which includes a Fire Department Connection (FDC), Standpipe Valves, Sprinkler Control Valve, Sprinkler Heads, and a Pressure Gauge.
  - 3.11.1. Fire Suppression System shall be a dry system.
  - 3.11.2. Fire Suppression System shall be capable of flowing 175 p.s.i.
  - 3.11.3. The FDC shall be a single FNST 2-1/2" inlet with plug and chain located at ground level and identified by an FDC sign.
  - 3.11.4. There shall be a MNST 2-1/2" Standpipe Valve located on all three floors. Each Standpipe Valve shall have an independent shut-off and have a cap and chain.
  - 3.11.5. There shall be two (2) 1/2" Sprinkler Heads installed on the 1<sup>st</sup> floor. One Sprinkler Head shall be an upright design, and the other a pendant design.
  - 3.11.6. The flow of water to the Sprinkler Heads will be controlled by a quarter turn Control Valve.
  - 3.11.7. There shall be a Pressure Gauge installed at the top of the standpipe riser, for calculating system pressure.
- 3.12. All floors and landings of the California Drill Tower shall be protected by perimeter OSHA handrails/guardrails.

#### **4. OPTIONS**

- 4.1. Steel Toe Boards:  
Complete wrap of all steel flooring (outside edges) to minimize hose lines from expanding off the Drill Tower, and tools and appliances from being kicked-off.
- 4.2. 10' Outrigger Bays:  
Extends the footprint of the California Drill Tower by 10' in each direction. The Outrigger Bays are diagonally braced-back to the California Drill Tower.

There will be 2 x 8'W x 10'L Outrigger Bays: 1 x 21'W x 10'L Outrigger Bay and 2 x 4'W x 10'L Outrigger Bays.

The Outriggers also create a ground-level hallway that is 4'10" wide and nearly 40' in length.

The Outrigger Structure will extend to the 4th Floor.

The main purpose of the Outriggers is to provide added support, as well as more floor area for students and training.

4.3. 10' Outrigger Decking:

Provides Steel Decking on all of the Outrigger Bays, which creates a mezzanine-style area. This level is protected by OSHA Guard Rails and is accessible by a fire department ground ladder.

Outrigger Decking would be on the 2nd Floor level, as well as the 4th Floor level (21'W x 10'L Outrigger Bay only).

The main purpose of the Outriggers is to provide added support, as well as more floor area for students and training.

4.4. Roof Simulators:

The Roof Props / Vertical Ventilation Simulators include:

Flat Roof Prop (8'W x 10'L) built on the Decking of an Outrigger Bay to simulate a commercial roof during vertical ventilation.

Pitched Roof Prop (8'W x 10'L) - approx. 5/12 pitch, built on the Decking of an Outrigger Bay to simulate a residential roof during vertical ventilation.

4.5. Vertical Ladder w/Safety Cage:

Vertical Ladder w/Safety for vertical rope rescue, confined space training, below-grade emergencies, patient-packaging, and limited access scenarios.

Replicate access challenges to water towers, in storm drains (below grade) & manholes, gooseneck ladders on commercial buildings and elevated billboard signs.

4.6. Hallway:

Enclose (both sides & ceiling) the Ground-Level, center Hallway using steel/aluminum panels. The Wall Panels at the beginning & end of the hallway are removable.

The Enclosed Hallway provides an opportunity for rescues, nozzle operations, hoseline stretches, and many other realistic drills.

4.7. Balcony/Instructor's Platform:

2nd Balcony/Instructor's Platform added above existing Balcony to create more realistic apartment scenarios & provide additional vantage points.

The 2nd Balcony/Instructor's Platform is accessible from within the California Drill Tower, as well as a 35' extension ladder, or aerial ladder.

The 3rd will be installed on the 4th Floor, above the Window Prop on the 2nd Floor.



4.8. Observation Extension:

The Observation Extension is installed and tied-into the 8'W x 10'L Outrigger Bay at the 2nd Level of the Drill Tower. This allows Instructors to have a visual on students cutting holes in the Vertical Ventilation Props.

Additionally, because the Observation Extension is tied-into the 2nd Level, it increases the area of the 2nd Level by 5'W x 10'L (creating another Hallway).

4.9. PRV-Field Adjustable:

Elkhart Brass Field Adjustable Pressure Relief Valve - Installed on the 2nd & 4th Floors.

Put your hands-on and adjust the Field Adjustable PRV/PRD. Gain the knowledge of how the PRV/PRD works, while in a controlled environment.

4.10. Window Bail-Out Prop:

The Window Bail-Out Prop simulates a window opening, approximately 28"W x 36"T, which is secured to the Affordable Drill Tower (on any level).

The Window Prop allows you to train on entering a window from a ladder (ground or aerial), performing window bail-out drills ("Denver Drill"), VES/VEIS and much more.

4.11. LED Lighting Package:

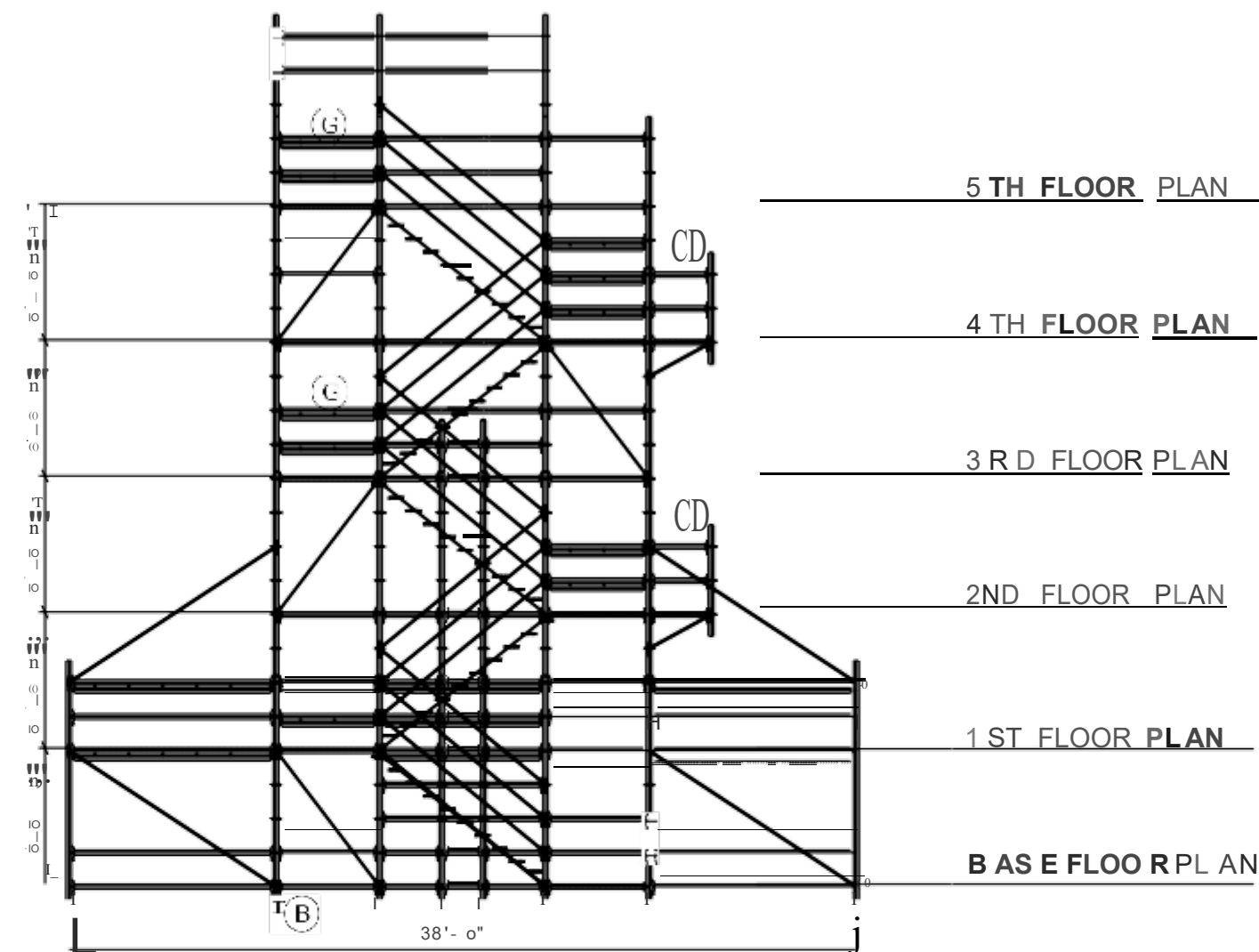
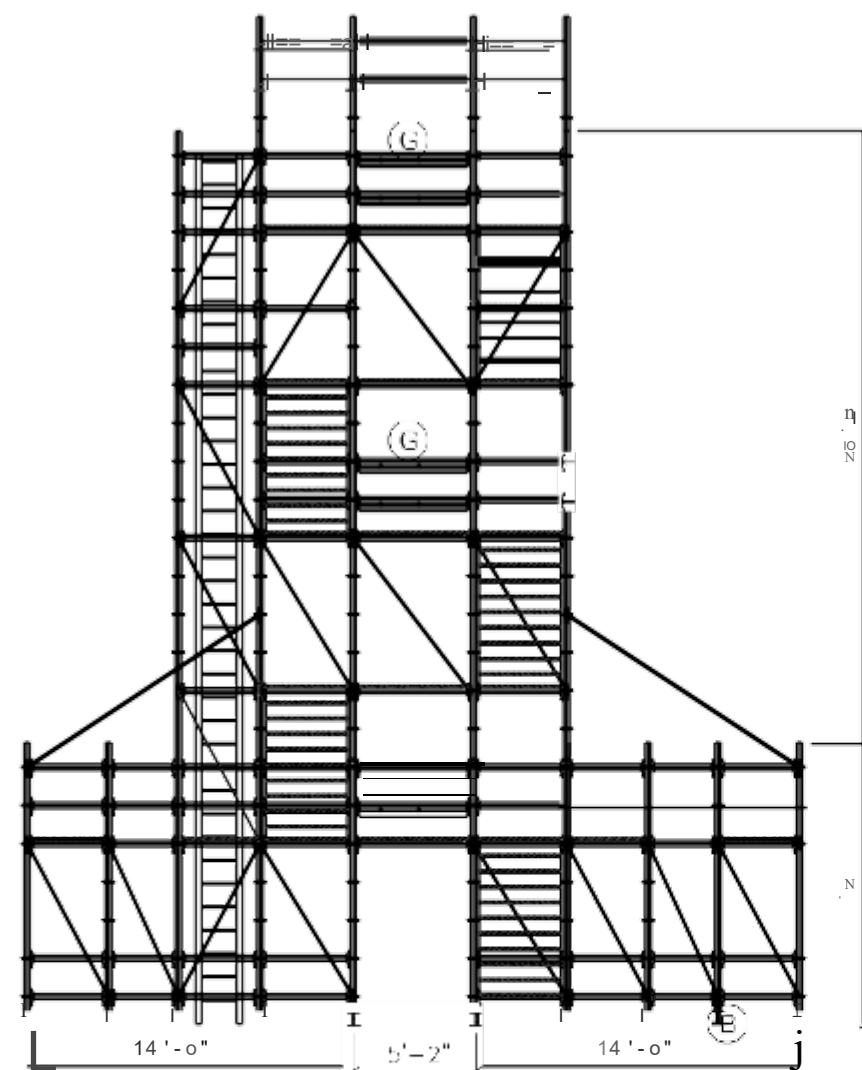
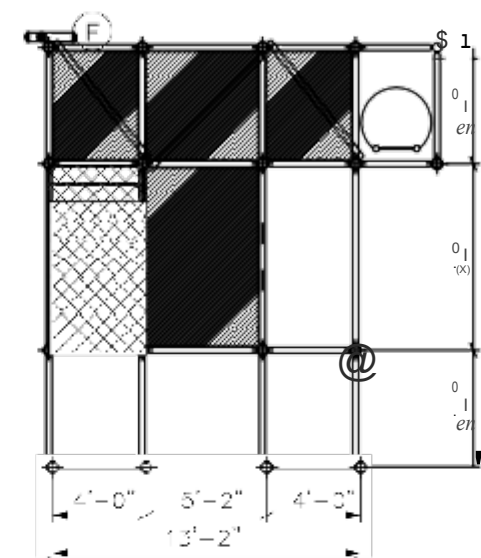
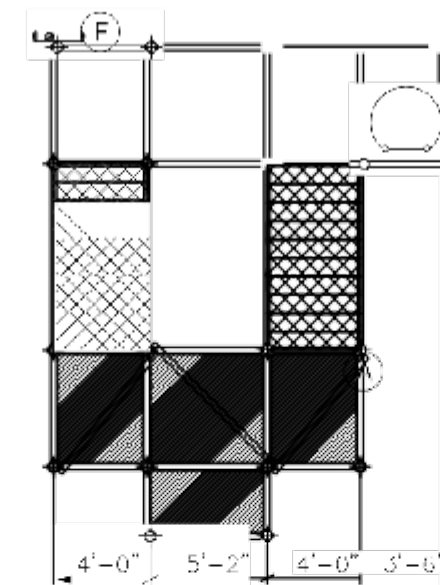
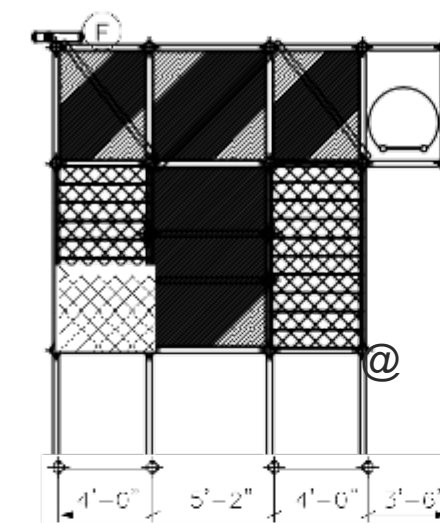
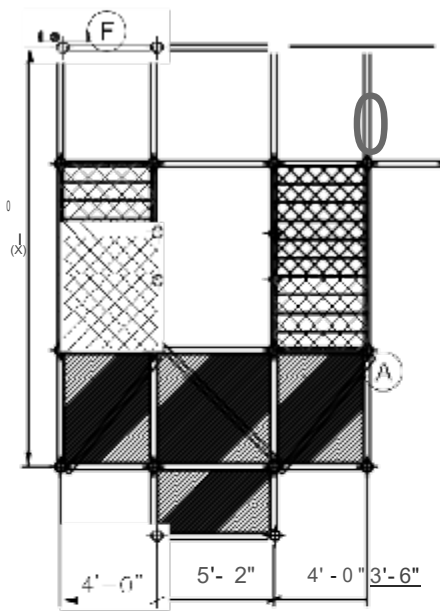
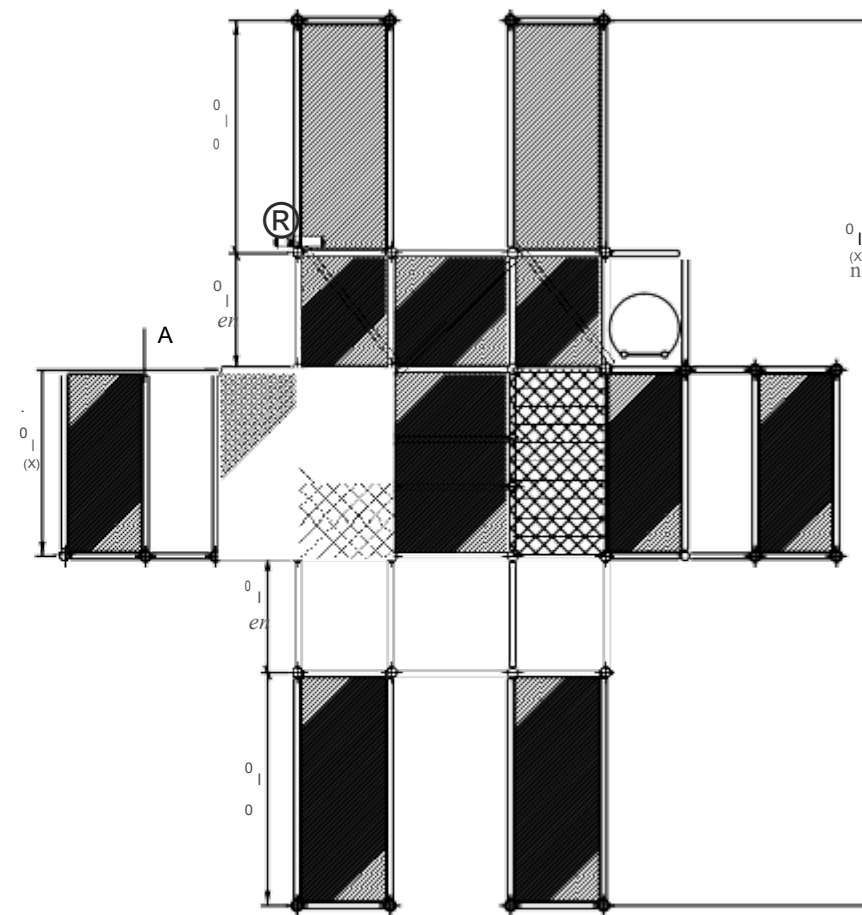
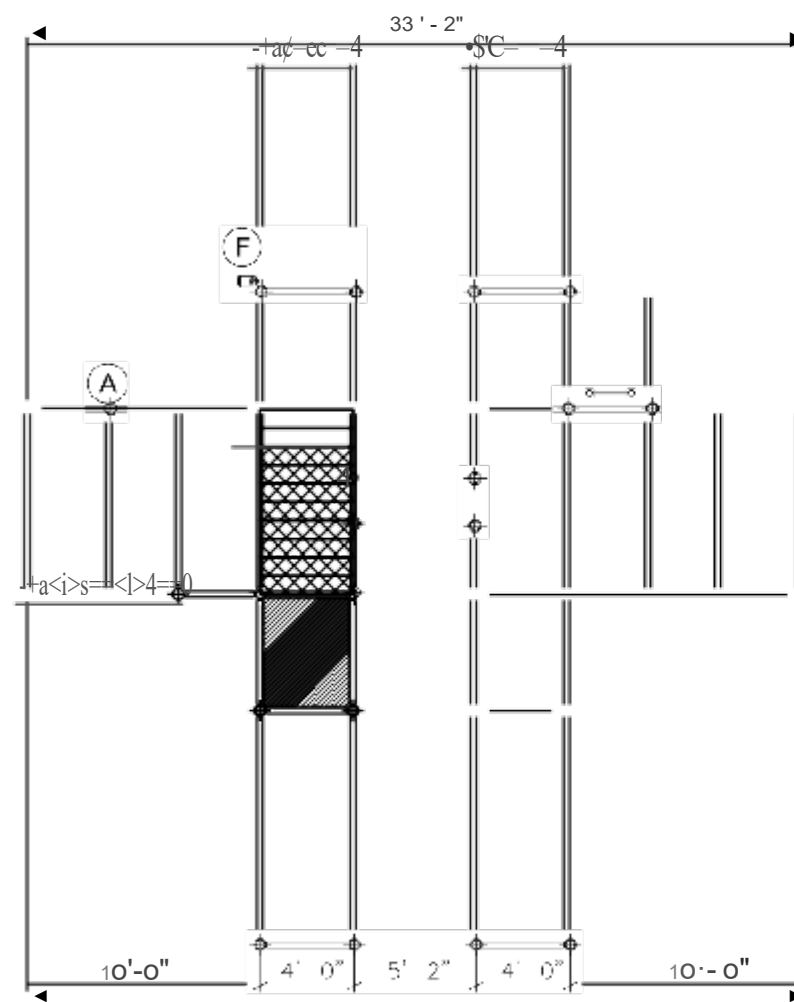
Includes six (4) 1,000 lumens, solar-powered streetlamps.

1-lamp on each of the 4-sides/corners (depending on if Outriggers are chosen).

Each lamp has multiple lighting modes, including Constant brightness; 2 different motion detection modes; brightness override functionality; and 8 different timer modes.

4.12. NFPA 1402:

NFPA 1402 (v. 2019) compliance by anchoring the Affordable Drill Tower to an existing concrete slab or substantial vertical structure.



- MEMB ER LI ST

- |   |                               |    |   |
|---|-------------------------------|----|---|
| @ | 6 RING VERTICAL W/ SPIGOT     | ®  | STEEL PLANKS                                  |
| ® | 24" SYSTEM JACK W/ BASE PLATE | CD | 3'- 6" SIDE BRACKET<br>(OBSERVATION PLATFORM) |
| © | 4' LEDGER                     | Q) |   |
| @ | 5' LEDGER                     |    | 2 RING VERTICAL W/ SPIGOT                     |
| ® | 8' VERT. DIA.                 | ®  | 8' LEDGER                                     |
|   |                               | CD | 8' STAIR HANDRAILS                            |
| ® | STANO PIPE CONNECTION         | @  | 4' VER TICAL DIAGONAL                         |
| @ | TRUSS BEARER                  | ®  | 5' VER TICAL DIAGONAL                         |

- ### GENERAL NOTES

- 1) **DRILL TOWER SHALL BE PLUMB AND LEVEL.**
- 2) **SUPPORTING MEMBERS SHALL BE PLACED ON A FIRM SMOOTH FOUNDATION THAT WILL PREVENT LATERAL DISPLACEMENT.**
- 3) **UNSTABLE OBJECTS SUCH AS BARRELS, BOXES, LOOSE BRICKS, OR CONCRETE BLOCKS SHALL NOT BE USED AS SUPPORTS.**
- 4) **VERTICAL MEMBERS SHALL BE PLUMB AND SECURELY BRACED TO PREVENT SWAYING OR DISPLACEMENT.**
- 5) **WORK PLATFORMS SHALL BE SECURELY FASTENED TO THE DRILL TOWER.**
- 6) **AN ACCESS LADDER OR EQUIVALENT SAFE ACCESS SHALL BE PROVIDED**
- 7) **CLIMBING OF BRACES SHALL BE PROHIBITED**
- 8) **RUNNERS SHALL BE COUPLED TO EACH POST.**
- 9) **THE BOTTOM RUNNERS SHALL BE LOCATED AS CLOSE TO THE BASE AS POSSIBLE**
- 10) **BEARERS SHALL BE INSTALLED TRANSVERSELY BETWEEN POSTS.**
- 11) **WORK PLATFORMS SHALL NOT BE ERECTED OR USED IN THE IMMEDIATE VICINITY OF POWER LINES OR ELECTRICAL CONDUCTORS UNTIL SUCH ARE INSULATED, DE-ENERGIZED OR OTHERWISE RENDERED SAFE AGAINST ACCIDENTAL CONTACT.**
- 12) **ANYONE INVOLVED IN ERECTING, DISASSEMBLING, MOVING, OPERATING, USING, REPAIRING, MAINTAINING OR INSPECTING A SCAFFOLD SHALL BE TRAINED BY A COMPETENT PERSON TO RECOGNIZE ANY HAZARDS ASSOCIATED WITH THE WORK IN QUESTION. PROOF OF TRAINING SHALL BE AVAILABLE UPON REQUEST.**
- 13) **ALL SCAFFOLDING STRUCTURAL MEMBERS SHALL BE SUFFICIENT TO WITHSTAND 160 MPH WIND LOAD COMPLY WITH LOCAL CODES.**
- 14) **STRONG CONSIDERATION SHOULD BE GIVEN TO REMOVAL OF STEEL PLANKS DURING SEVER WIND EVENTS**
- 15) **THE DRILL TOWER SHALL NOT BE USED DURING HIGH WIND EVENTS**

## DESIGN CALCULATIONS

OCCUPANCY CATEGORY- II S<sub>s</sub>= 0.152, S<sub>i</sub>= 0.069  
IMPORTANCE FACTOR I S<sub>ds</sub>= 0.162, S<sub>dI</sub>=0.111

SITE CLASS 0  
Fa = 1.6  
Fv = 2.4

DEAD LOAD = 13,163 LBS  
**LIVE LOAD = 400 LBS**  
TOTAL LOAD= 13,563 LBS  
**LOAD PER LEG = 3,390 LBS**  
**LEG LOAD CAPACITY = 18,690 LBS**  
SAFETY FACTOR = 5.5

' CALCULATIONS ARE FOR ONE 4'X5' SECTION

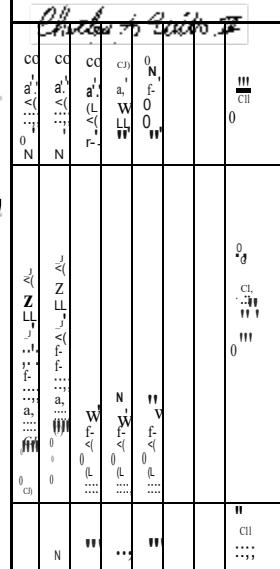
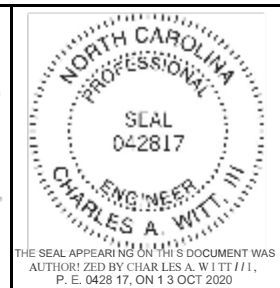
80 PSF **L I V E** LOAD SHALL NOT BE EXCEEDED  
20 PSF **L I V E** **L O A D** FOR **P A R T I T I O N S** SHALL  
NOT BE EXCE EDED.  
OVERTURNING CALCULATION:

5 TH **FLOOR** MAX LOAD 1,6 00LBS, F.S. - 1.6  
4TH **FLOOR**: MAX LOAD 4,000LBS, FS - 1.8  
3RD FLOOR: MAX LOAD **4,500LBS**, F.S.- 2.0  
2ND FLOOR: MAX LOAD 8,000LBS, F.S.- 3.0

SIDE BRACKET ALLOWABLE LOAD  
3'- 6" EFFECTIVE WIDTH - 500LB ALLOWABLE  
UNIFORM LOAD

**STEEL PLANK ALLOWABLE LOAD:**  
4'- 0", 415 LB/ SF  
5'- 2", 200 LB/ SF

**DRILL TOWER OCCUPANCY:**  
MAX 15 PEOPLE PER FLOOR  
MAX 45 PEOPLE PER DRILL TOWER

[illegible]

SHEETNUMBER

**S-101**



**CITY OF MARYVILLE**  
**400 West Broadway**  
**Maryville, TN 37801**  
**(865) 273-3401**

### AGENDA ITEM BACKGROUND

CONSIDERATION OF A RESOLUTION SUPPORTING THE TENNESSEE DEPARTMENT OF TRANSPORTATION IMPROVEMENTS TO SR-334 UNDER THE PROVISION OF THE INDUSTRIAL HIGHWAY ACT OF 1959.

**A) Introduction:**

Certain road improvements need to be accomplished for the development of the Smith and Wesson facility to take place. Therefore TDOT, acting under the provision of the Industrial Highway Act of 1959 will make certain improvements to SR-334 to facilitate said development.

**B) Financial Impact of Action:**

TDOT funds

**C) Impact of Action on Other Departments/Agencies:**

n/a

**D) Proposed Action:**

Approve resolutions

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION SUPPORTING IMPROVEMENTS TO SR-334 BY THE  
TENNESSEE DEPARTMENT OF TRANSPORTATION.**

**WHEREAS**, the City of Maryville, Tennessee, is vitally interested in the economic welfare of its citizens and wishes to provide the necessary leadership to enhance this area's capabilities for growth and development, and

**WHEREAS**, the provision of jobs to area citizens by local industry is both necessary and vital to the economic well-being of the City of Maryville, and

**WHEREAS**, the Industrial Highway Act of 1959 authorizes the Tennessee Department of Transportation to coordinate with cities and counties for the construction of "Industrial Highways" to provide access to industrial areas and to facilitate the development and expansion of industry within the State of Tennessee, and

**WHEREAS**, Smith and Wesson plans to construct their Headquarters, Research & Development, Manufacturing, distribution, and their visitor center facilities in our community, and

**WHEREAS**, the construction of an industrial access road to serve said proposed facility is necessary and vital to the successful completion of this project and the future economic well-being of this area, and

**NOW, THEREFORE BE IT RESOLVED** by the City of Maryville supports improvements to SR-334 as proposed by the Tennessee Department of Transportation for construction and completion of the herein proposed industrial access highway under the provisions of the Industrial Highway Act of 1959.

**WHEREAS**, that the resolution will take effect immediately upon its passage.

Passed this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

---

Andy White  
Mayor

ATTEST:

---

City Recorder

APPROVED AS TO FORM:

---

City Attorney

Maryville, Tennessee  
September 7, 2021  
7:00 P.M.

### REGULAR MEETING

The Maryville City Council convened for a regular business meeting on September 7, 2021 at 7:00 p.m. at the Maryville Municipal Center when the following members were present and answered roll call: Mayor Andy White presiding, Councilmembers Sarah Herron, Tommy Hunt, Fred Metz and Drew Miles. Also present were City Manager Greg McClain, City Recorder Sherri Phillips, and City Attorney Melanie Davis. The Mayor declared a quorum to be present.

Thereupon, it was moved by Councilmember Hunt and seconded by Councilmember Herron to approve the minutes from the August 3, 2021 Council Meeting. On roll call the vote was unanimous.

At this time, Mayor Andy White acknowledged the following employees for their years of service to the City of Maryville:

Rusty Thompson – Development Services, twenty-six years  
Tammy Hankinson – Financial Services, twenty-three years  
Debbie Ryan – Financial Services, forty years

THEREUPON, THE FOLLOWING PROCEEDINGS WERE HAD AND ENTERED OF RECORD TO-WIT:

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on second reading:

AN ORDINANCE AMENDING THE ANNUAL BUDGET OF  
THE CITY OF MARYVILLE, TENNESSEE FOR FISCAL YEAR  
2022.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Hunt that said ordinance be passed on second reading. On roll call the vote was unanimous. The Mayor declared that said ordinance had been adopted. The ordinance was signed by the Mayor and City Recorder. The Mayor ordered said ordinance numbered 2021-37 and recorded in the Ordinance Book of the City.

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on second reading:

AN ORDINANCE TO ABANDON A PORTION OF AN ALLEY  
LOCATED BETWEEN BOARDMAN AVENUE AND BARNES  
AVENUE AND DESIGNATED AS ALLEY #238.

Thereupon, it was moved by Councilmember Miles and seconded by Councilmember Hunt that said ordinance be passed on second reading. On roll call the vote was unanimous. The Mayor declared that said ordinance had been adopted. The ordinance was signed by the Mayor and City Recorder. The Mayor ordered said ordinance numbered 2021-38 and recorded in the Ordinance Book of the City.

Thereupon, the following captioned ordinance was presented, considered, and placed for passage on first reading:

**AN ORDINANCE AMENDING THE ANNUAL OPERATING  
BUDGET RELATIVE TO SCHOOL FEDERAL FUNDS.**

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Herron that said ordinance be passed on first reading. On roll call the vote was unanimous. Thereupon, the Mayor declared that said ordinance had passed on first reading.

Thereupon, the following resolution was presented, considered, and placed for adoption:


**A RESOLUTION AUTHORIZING THE SPECIAL EVENT  
“DOWNTOWN HOG RALLY” TO BE HELD FROM 5 PM - 11  
PM, SEPTEMBER 30, 2021.**

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Miles that said resolution be adopted. On roll call the vote was unanimous. The Mayor declared that said resolution had been adopted. The resolution was signed by the Mayor and City Recorder. The Mayor ordered said resolution numbered 2021-13 and recorded in the Resolution Book of the City.

Thereupon, it was moved by Councilmember Metz and seconded by Councilmember Hunt to consider a motion to authorize a contract for GIS aerial mapping services with Pictometry International Corporation in the amount of \$90,376 in FY2022 and with future options for FY2026 contingent on approval of budget. Upon roll call the vote was unanimous.

Thereupon, it was moved by Councilman Hunt and seconded by Councilman Metz to approve the appointment of Steve West and Keri Prigmore to the Blount County Coordinating Committee with term to expire September 2023. On roll call the vote was unanimous.

Thereupon, there being no further business, the Mayor adjourned the meeting until the next scheduled meeting unless sooner called by the Mayor or as otherwise provided by law.

  
\_\_\_\_\_  
Mayor

Attest:  
  
\_\_\_\_\_  
City Recorder