



Application for
Use Permit

OFFICE USE ONLY
Date Received:

JULY 08, 2020

Case Number UP 20-00004

Complete this application in its entirety and submit pages 4 and 5 along with the required materials (including any required supplements) as listed on page 2 to the address below:

City of Hampton
Community Development Department, Planning Division
22 Lincoln Street, 5th Floor
Hampton, Virginia 23669

1. PROPERTY INFORMATION

Address or Location 34 Research Drive
LRSN 6000995 Zoning District LBP RZ19-0005
Current Land Use Professional Office/Light Manufacturing
Proposed Land Use same
The proposed use will be in: an existing building a new addition a new building

2. PROPERTY OWNER INFORMATION (an individual or a legal entity may be listed as owner)

Owner's Name Research Holdings LLC
Address 34 Research Drive City Hampton State VA Zip 23666
Phone 757-240-4305 Email jimc@threattec.com

3. APPLICANT INFORMATION (if different from owner)

Applicant's Name _____
Address _____ City _____ State _____ Zip _____
Phone _____ Email _____

4. APPLICANT AGENT INFORMATION (if different from applicant)

Agent's Name _____
Address _____ City _____ State _____ Zip _____
Phone _____ Email _____

5. CERTIFICATION FOR LEGAL ENTITY PROPERTY OWNERS

Complete this section only if the property owner is not an individual but rather a legal entity such as a corporation, trust, LLC, partnership, diocese, etc. as specified in Step 2 above.

"I hereby submit that I am legally authorized to execute this application on behalf of the fee-simple owner of this property. I have read this application and it is submitted with my full knowledge and consent. I authorize city staff and representatives to have access to this property for inspection. The information contained in this application is accurate and correct to the best of my knowledge."

Name(s), title(s), signature(s), and date(s) of authorized representative(s) of the legal entity (attach additional page if necessary):

Name of Legal Entity Research Holdings LLC

Signed by: Name (printed) James Crawford, Its (title) Owner

Signature [Handwritten Signature] Date 7/30/20

Name (printed) _____, Its (title) _____

Signature _____ Date _____

Name (printed) _____, Its (title) _____

Signature _____ Date _____

6. CERTIFICATION FOR INDIVIDUAL PROPERTY OWNERS

Complete this section only if the property owner is an individual or individuals.

"I hereby submit that I am the fee-simple owner of this property. I have read this application and it is submitted with my full knowledge and consent. I authorize city staff and representatives to have access to this property for inspection. The information contained in this application is accurate and correct to the best of my knowledge."

Name(s), signature(s), and date(s) of owner(s) (attach additional page if necessary):

Name (printed) _____

Signature _____ Date _____

Name (printed) _____

Signature _____ Date _____

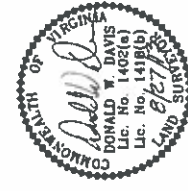
<small>OFFICE USE ONLY</small>		
<input type="checkbox"/> Application Form	<input type="checkbox"/> Narrative Statement	<input type="checkbox"/> Supplemental Form (if required)
<input type="checkbox"/> Application Fee	<input type="checkbox"/> Survey Plat	<input type="checkbox"/> Additional materials (if required)

- EASEMENT LEGEND:**
- ① - 10' DRIVE EASEMENT
 - ② - 15' DRAINAGE MAINTENANCE EASEMENT (D.B. 683, PG. 782)
 - ③ - 30' CITY OF HAMPTON R/W (D.B. 683, PG. 782)
 - ④ - 10' WEPKO EASEMENT (D.B. 604, PG. 16)
 - ⑤ - 15' WEPKO EASEMENT (D.B. 604, PG. 16)
 - ⑥ - 15' WATER MAIN EASEMENT (D.B. 354, PG. 80)
 - ⑦ - 15' WEPKO EASEMENT (D.B. 604, PG. 210)
 - ⑧ - 15' WEPKO EASEMENT (D.B. 731, PG. 54)
 - ⑨ - 15' WATERWAY EASEMENT - NEWPORT NEWS (D.B. 604, PG. 16)

EASEMENT NOTE:
 EASEMENT SCHEDULE TITLE COMMITMENT - SCHEDULE B-4, FILE NUMBER - RESEARCH - THE FOLLOWING EASEMENTS ARE NOT LOCATED ON THE SUBJECT PROPERTY:
 DEED BOOK 191, PAGE 344
 DEED BOOK 230, PAGE 450
 DEED BOOK 312, PAGE 197
 DEED BOOK 404, PAGE 16
 DEED BOOK 618, PAGE 248

NOTE ON FORMERLY VIRGINIA NATURAL GAS (D.B. 744, PG. 287) (D.B. 705, PG. 324)

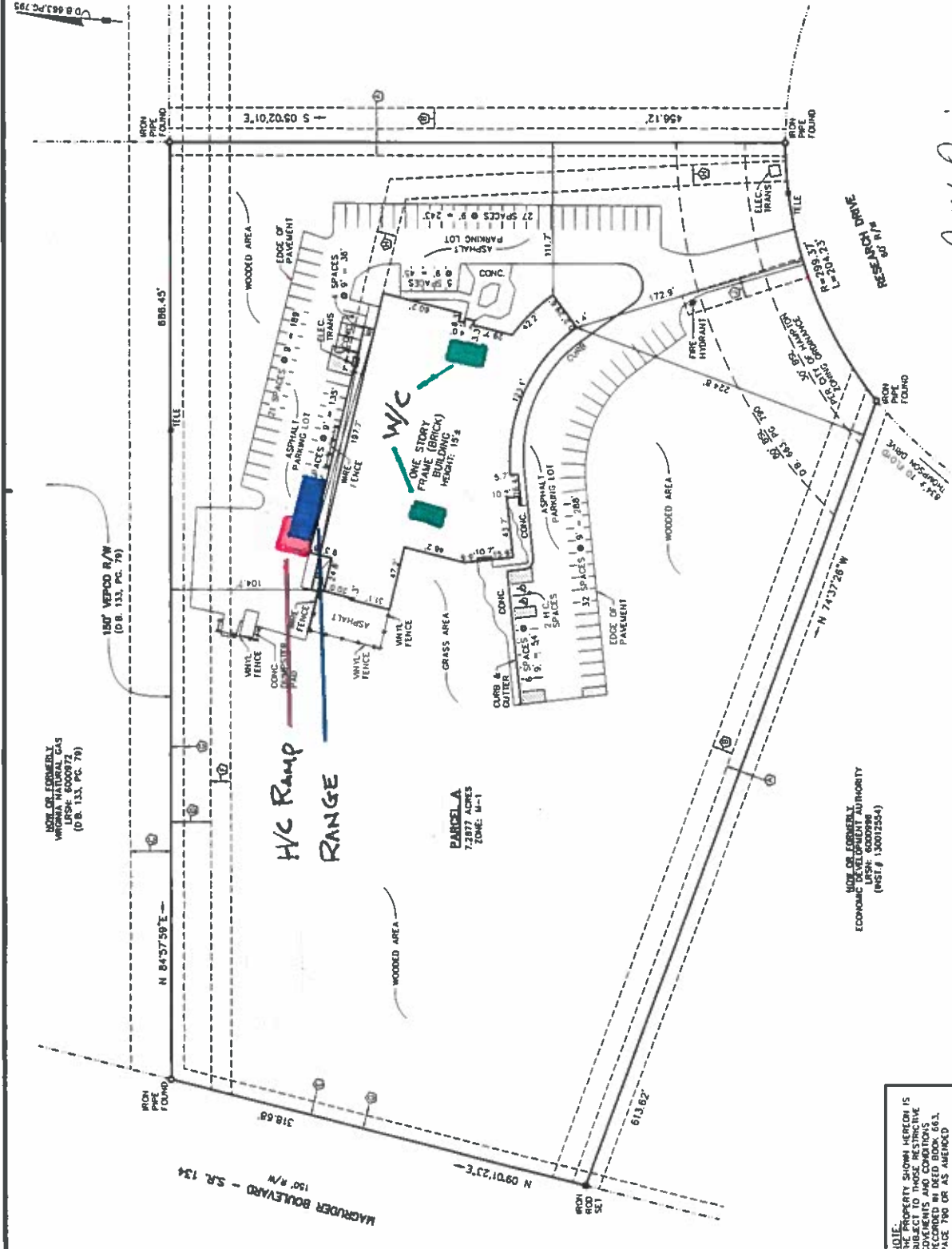
BUILDING SETBACKS:
 FRONT - 5' (D.B. 651, PG. 790)
 SIDE STREET - 5' (D.B. 651, PG. 790)
 REAR - 5' (D.B. 651, PG. 790)
 M-1 ZONING: CITY OF HAMPTON
 FRONT - 30'
 SIDE - 10'
 REAR - 15'



JOB LOCATION: 34 RESEARCH DRIVE
 PLAT OF THE PROPERTY OF
PRESSURE SYSTEMS, INC.
 PARCEL A (7.2877 AC.)
 AS SHOWN ON
 PLAT OF THE PROPERTY OF
REGIONAL REDEVELOPMENT & HOUSING AUTHORITY FOR NEWPORT NEWS & HAMPTON, VIRGINIA
 CITY OF HAMPTON, VIRGINIA
 DEED BOOK 663, PAGE 788
 SCALE: 1" = 50' TO: CRAWFORD DATE: AUGUST 27, 2013

LEGALLY THE PROPERTY OF PRESSURE SYSTEMS, INC. BY THIS PLAT WAS MADE BY ME ON THIS DATE AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF THERE ARE NO UNRECORDED EASEMENTS, ENCUMBRANCES, GAPS AND/OR CORRES AND THAT ALL BOUNDARY LINES ARE CORRECT. THE PROPERTY SHOWN ON THIS SURVEY IS THE PROPERTY OF PRESSURE SYSTEMS, INC. TITLE COMMITMENT FILE NUMBER: RESEARCH DESCRIPTION FILE NUMBER: RESEARCH

DAVIS & ASSOCIATES, P.C.
 SURVEYORS - PLANNERS
 YORK COUNTY, VIRGINIA
 CODE: 13-0420 DWN BY: CMF



NOTE ON FORMERLY VIRGINIA NATURAL GAS (D.B. 600872) (D.B. 133, PG. 78)

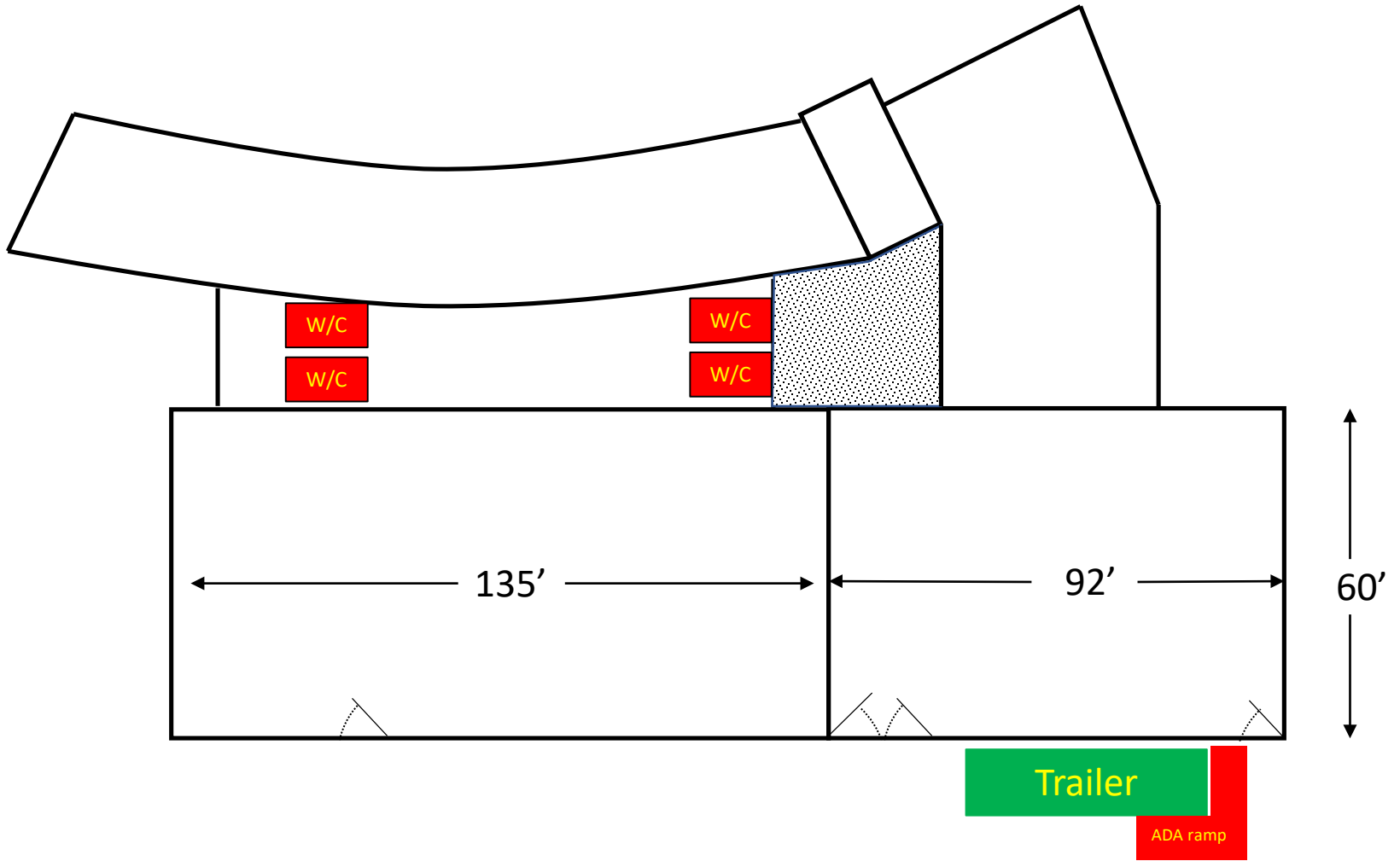
NOTE ON FORMERLY ECONOMIC DEVELOPMENT AUTHORITY (D.B. 130012584)

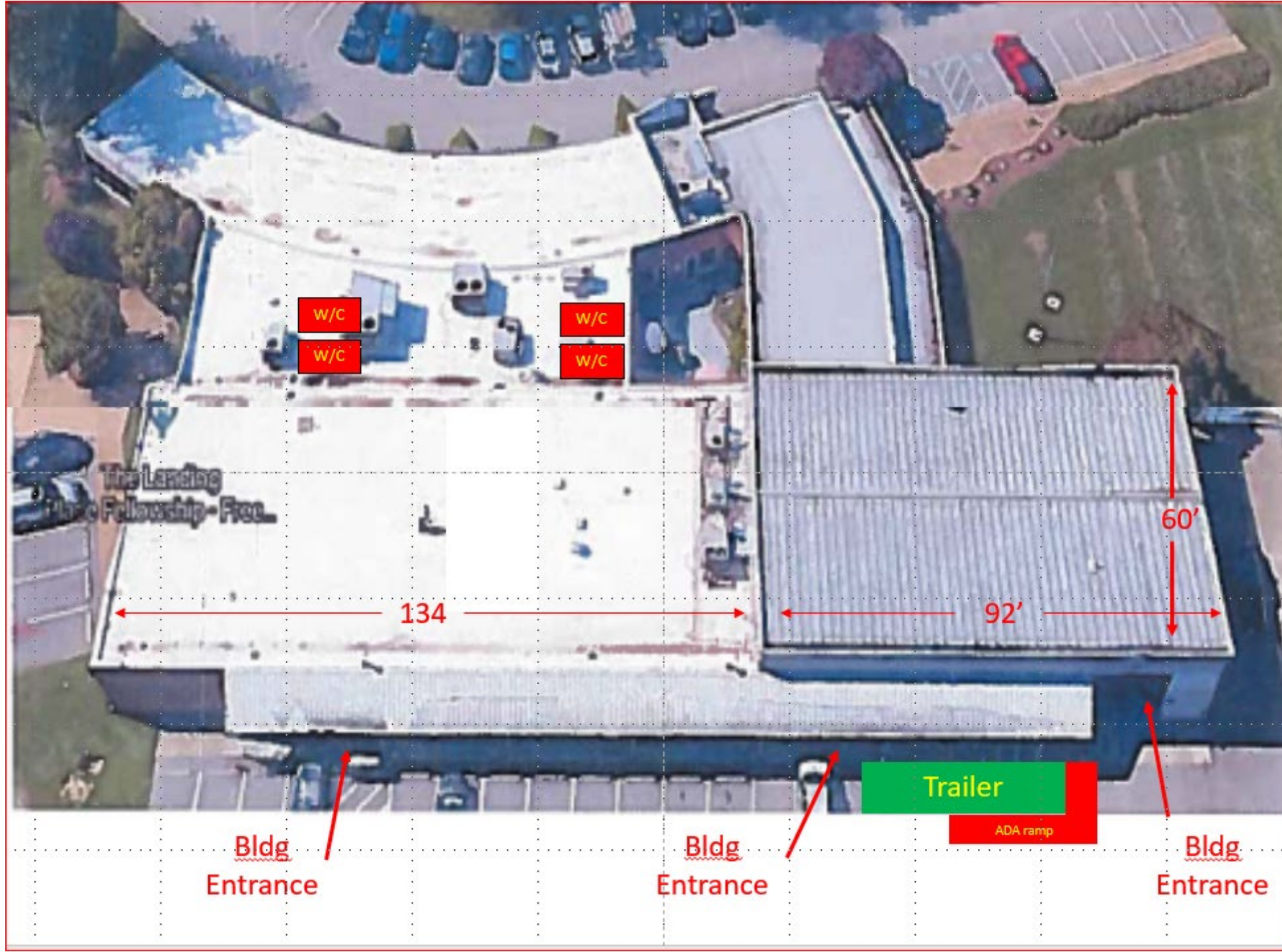
NOTE:
 PROPERTY SHOWN HEREON IS SUBJECT TO THOSE RESTRICTIVE COVENANTS AND CONDITIONS RECORDED BY DEED BOOK 663, PAGE 788 OR AS REFERRED

REFERENCES:
 DEED BOOK 663, PAGE 788 (PLAT)
 DEED BOOK 663, PAGE 790 (RESTRICTIVE COVENANTS & CONDITIONS)

NOTE:
 PROPERTY SHOWN HEREON IS LOCATED IN ZONE 'X' SUBJECT TO THOSE RESTRICTIVE COVENANTS AND CONDITIONS RECORDED BY DEED BOOK 663, PAGE 788 OR AS REFERRED. EFFECTIVE DATE: AUGUST 16, 2011

SYMBOLS:
 --- FENCE FOUND
 --- IRON RIG FOUND
 --- CONC. MONUMENT





W/C

W/C

W/C

W/C

The Landing
Place Fellowship-Free

134

92'

60'

Trailer

ADA ramp

Bldg
Entrance

Bldg
Entrance

Bldg
Entrance

July 24, 2020

Donald A. Whipple, AICP
Chief Planner
City of Hampton
Community Development Department
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Hampton VA 23669
dwhipple@hampton.gov
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(757) 728-5235 (direct)

The completely self-contained, environmentally friendly mobile Meggitt “RoadRange“ has been acquired to augment the marketing efforts of the GunSmoke project with which the City of Hampton has partnered with Mr. Crawford. The RoadRange will be paired with high fidelity walk-thru presentation of the GunSmoke facilities as well as details of what will be offered under the membership models. Initial marketing will begin in the immediate area to attract and support the local communities’ interest. Utilization of the ranges’ capabilities will be limited to those who have made a membership commitment. It is not intended to be utilized by the general public. The range will have 24 hour availability and managed in concert with the existing business operations. The Range can accommodate up to three concurrent users, each with an instructor, if desired. Range operations are controlled by an onboard Range Control Safety Officer (RCSO). Personnel access requires passage through the RCSO station, therefore providing positive access and range safety control.

The GunSmoke mission is to deliver high-quality firearms safety and use training to all ages and experience levels including members of civilian public safety organizations. GunSmoke is being designed to attract whole families to the shooting sports by providing safe, comfortable, and convenient facilities. It will attract public safety organizations by providing state of the art, all-weather, tactically representative, reconfigurable capabilities.

Having the functionality of a completely self-contained mobile range will allow us to position the range alongside our existing building without having to build or reconfigure the existing structure. All vital support services are built into the mobile range and do not require any outside support other than standard 220 VAC, 3 phase power. The mobile range can be driven into the position, powered, and ready to conduct safe operations almost immediately without any modifications or impacts to the property on which it is parked.

The Meggitt Training Systems Mobile Shooting Range is suitable for small arms and rifle calibers up to .223. It is equipped with ballistic armor plating, ventilation filter system, acoustical material, thermal insulation, and a bullet trap to stop the bullet.



The shooting area is armor plated throughout with the impact area reinforced. The bullet armor plating is ¼" ar-500 material is installed on all sides, top, and bottom of the shooting area inside the trailer. This armor plated metallic material is strong enough to stop the impact of .223 caliber ammunition. Immediately in front of the armored wall (Bullet Trap) of the trailer is the shooting impact area or backstop, also made from armor plate and covered with granulated rubber. The granular rubber bullet trap is designed to capture the bullet intact to simplify and provide environmentally friendly clean-up. The remainder of the floor includes hardened ar-500 steel and insulating rubber matting to protect and prevent slipping. The shooting area is armor-plated throughout with the impact area reinforced.

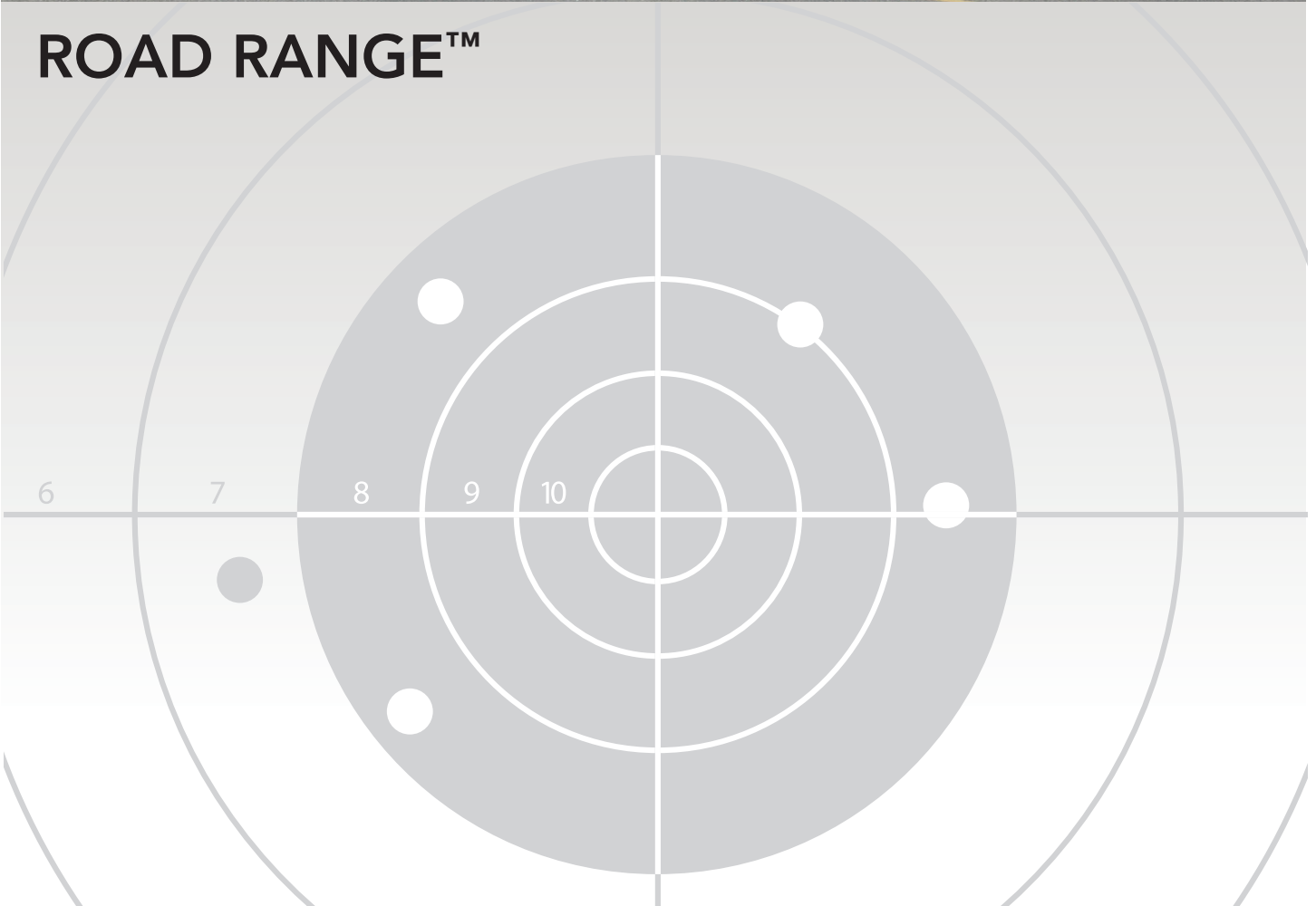
Noise reduction and thermal insulation is accomplished using thick rubber pavers and acoustical insulation over the ballistic armor.

The Meggitt Mobile Shooting Range is equipped with a HEPA filtration system that filters 99.997% of all airborne contaminants and discharged gases from the air.

The Meggitt Mobile range will be sited as depicted in the enclosed Plat. The placement provides access to restroom facility within the prescribe 500' distance. The site will provide anchor points designed in accordance with Hampton building codes.



ROAD RANGE™



Road Range™ a flexible alternative to traditional firearms training.

Meggitt Training Systems' Road Range™ is a self-contained mobile firearms training facility that integrates live-fire and virtual simulation capabilities to provide a total weapons training solution in a transportable environment.

The ballistically secure trailer range is equipped with systems and components to produce a three position, state-of-the-art, live-fire range. The Road Range can also be customized to provide training for less lethal and non-lethal options such as verbal commands, baton, chemical spray and TASER®.

The Road Range is distinctive, offering a traveling training environment that provides much-needed range time for law enforcement, militaries and security forces. By bringing the range to the users, departments are able to conduct routine qualifications for their officers or units based on their timeframe and requirements.

The Road Range provides a comprehensive solution for marksmanship, sustainment and judgmental training including force escalation/de-escalation, use of force and shoot/no shoot training.

The Road Range also saves money.

- Removes the need for a permanent shooting range, capitalizing on operations and maintenance savings
- Eliminates property taxes associated with permanent installations
- Allows departments to subcontract the management, maintenance and associated training to a third party
- Savings through on-site training versus moving to a permanent training facility
- Environmentally friendly solution that saves on costly clean up

Road Range features

Trailer

The standard Road Range is a three-lane shooting range built inside an over-the-road 53 ft. trailer that is USDOT certified for use on all unrestricted roads. It is powered by standard electrical connections or can be equipped with an optional built-in generator.

The interior of the Meggitt Road Range is designed with a range-control room separated from the shooting range. This division creates an 'airlock' entrance vestibule between the shooting range and the exterior of the trailer to help maintain range ventilation (similar to permanent fixed facilities). Each area has independent HVAC and lighting systems. The area's dividing wall has the same ballistic capabilities as the shooting range.

Meggitt's Road Range systems are customizable for many applications, including a crime lab, simulation range and advanced training, and can be configured using multiple trailers.

Additional arrangements available:

- Side-by-Side: six shooting lanes; operates as one range or as two separate, three-position ranges
- End-to-End: three shooting lanes; units combined end-to-end; 75 foot distance



GranTrap™ bullet trap

The Road Range is equipped with Meggitt's GranTrap, a granular rubber bullet trap that captures rounds virtually intact, utilizing the latest technology in bullet capture and containment. The GranTrap is designed to stop incoming rounds by employing the most efficient, safe and proven practices available in the industry, including:

- A cleaner and safer range environment
- Simplifies the lead removal process
- Extends the life of ventilation air filters
- A quieter solution by eliminating noise from rounds impacting steel plates

Shooting stalls

Clear-view shooting stalls organize the firing line into three defined shooting positions, provide a location for mounting individual shooter controls and are a standard feature on the Road Range™. Each shooting stall also features:

- Shooter's shelf with a recessed area for holding ammunition
- Spent brass receptacle
- Wing barricade to simulate shooting around obstructions

The clear ballistic panel gives the range operator and shooters an unobstructed view of the firing line, while also providing protection from the hazard of a misdirected shot.

Security system

The firing line is monitored by a photoelectric system for indiscriminate movement forward of the line. A violation will trigger an alarm to alert all range occupants of the intrusion and automatically edge the targets and halt further target movement.

XWT GEN 4

The XWT was the industry's first wireless, 360° turning target retrieval system, and advancements to the carrier continue. The XWT GEN4 uses a Lithium Ion battery with a positive locking battery connection and ergonomic battery placement/replacement, providing a 50% increase in battery capacity.

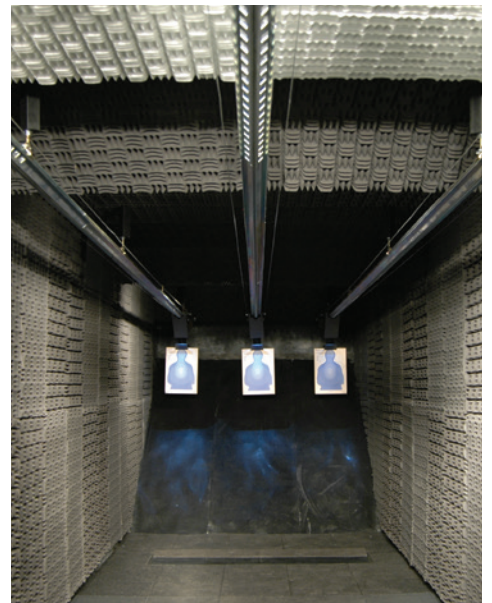
The new charging/docking system improves contact design for faster and more reliable charging. That means more time using the XWT GEN4 on your range, and less time charging it. The quiet, smooth, low maintenance wireless carrier is easily operated and programmable, essential for successful training and usability.

RangeMaster™ 9000

The RangeMaster™ 9000 (RM9K) is an easy-to-use range control system, offering instructors the ability to write, store and run training scenarios. The RM9K can control any, all, or a combination of lanes, and optional lanes may be added, including:

- Control of pop-up and secondary target systems to improve the user's performance in a variety of scenarios
- Security systems for facility lock-down and safety while training exercises are in progress
- Targets follow commands to travel, conceal, expose or edge as directed

Complementing the RM9K system, the RM10K provides complete system control through wireless tablets, allowing personnel to leave the control room while maintaining complete control of the range. The tablet's portability allows instructors the freedom to interact with shooters at the line and provide immediate feedback and correction.



Control room

A separate control room allows the range operator full control of the Road Range and all components. An audio system allows the range operator to communicate with the shooters and the ballistic glass window provides the operator with a visual view of the firing line and range. Controls for the target system, firing line security system, target and general lighting, ventilation systems, and generator are all easily accessible to the range operator. A heating and cooling unit in the control room provides a comfortable climate controlled environment for the range operator.

Ventilation system

A 100% outside air system, or purge system, comes standard in the Road Range. Outside air is drawn in and transformed into laminar airflow to produce an average 75 fpm airflow across the firing line. The exhaust air is filtered through two stages of filtration with a final stage of 99.97% HEPA filtration before being safely discharged.

The Road Range can be customized with these optional systems:

- Power Generator
- HVAC Recirculation System
- Infrared Heaters
- Split Jacks
- HEPA Vacuum System



Electrical system

The standard Road Range electrical system is 208 60Hz 3 phase input power. Road Range is configurable for 220V single phase, 60 Hz and/or 220V 50 Hz, and is upgradeable to on-board 20 KW power supply with fuel capacity for 30 hours of run time.

Road Range lighting includes switched fixtures for general/service lighting at the firing line and target areas, and dimmable fixtures for target lighting arranged in banks for target exposure distance. The range operator room has both general lighting and dimmable track-lighting fixtures, and an exterior fixture above the stairs at the trailer entrance.

Ballistics

Meggitt's Road Range™ ballistics are designed for each customer's needs. To maintain the safety of range users, occupants and persons outside the trailer, Meggitt Training Systems specifically prohibits the use of any armor-piercing ammunition, tracer rounds or incendiary devices in the Road Range™.

Wall and floor lining at a minimum provides protection/containment of shots from all handguns and shotguns with velocities of 900-2000 ft/sec and 2200 ft.-lbs. of energy. Customized ballistic protection includes all handguns and rifles with velocities of 900-3600 ft./sec. and up to 3600 ft.-lbs. of energy (including 5.56/.223 caliber and 7.62/.308 caliber).

Acoustic material (model AAF)

- Compliant to ASTM E-84 Class 1 flammability requirements and UL1715 corner burn test
- Passes UL code 94 (electronics)
- Passes ASTM G 21 (fungus resistance) and UL 121 (microbial growth)
- Sound Absorption Coefficients per ASTM C423-90a

Frequencies (Hz) 125 250 500 1,000 2,000 4,000 NRC Mounting
Coefficients 0.07 0.26 0.77 1.01 0.99 1.00 0.75 B

Rubber 'combat floor' material (SRP)

The combat floor material has a density of 50 pcf, tensile strength of 160 psi and elongation greater than 160%. The combat floor material complies with ASTM D-2859 flammability requirements and has a flash point greater than 650° F.