



# SALEMLAKES FIRE / RESCUE

*Committed to serve professionally with honor, integrity, and compassion.*



## SITE PLAN SUBMITTAL CHECKLIST

Information Required for Submittal to be reviewed by FSCI

ALL FIRE PROTECTION SUBMITTALS ARE TO BE DIRECTLY SUBMITTED TO FSCI

Code sets used: Wisconsin Chapter SPS 314  
NFPA 1 2012 Chapter 18

- Plans must be to a reviewable scale and clearly show work to be done including a detailed scope of work.
- Submit number of complete sets of plans as required by the AHJ. (3)
- Electronic drawing set in Adobe PDF format
- All plans must have the contractors name, address, phone number and license information.
- System designer name and qualification information (e.g. P.E. or NICET certification).
- Plans must show the job name and complete address, property lines and grade lines

### Building code summary requirements

- Use Group – Use Group per International Building Code (IBC)
- Construction Type – Type of construction per the International Building Code (IBC)
- Fire Protection Systems – Provide summary of Fire Protection Systems that will be installed.
- Height Calculations – Provide calculations for allowable height per IBC and the designed height of the proposed building(s) shall be shown on the Fire Protection Site Plan.
- Area Calculations – Provide allowable area calculations per IBC and the designed area of the proposed building(s) shall be shown on the Fire Protection Site Plan.
- Frontage Perimeter – If frontage is used for an area increase, all portions of the building(s) exterior, including width, used in the frontage increase calculation must be indicated on the fire protection site plan.
- Overhead obstructions to fire department operations (e.g., power lines and trees) should be minimized within the 20' open area used for frontage calculation

### Fire department access summary requirements

- Fire department access box location
- Proposed fire lanes
- Fire Department Access Roads - Fire department access roads shall consist of roadways (where speeds do not exceed 35 mph), fire lanes, parking lot lanes, or a combination thereof.
  - 20' width – Fire department access roads shall have an unobstructed width of not less than 20 ft (6.1 m).
  - 16'0" height – For portions of the fire department access road that have overhead obstructions, provide callouts with the height of the obstruction measured from the driving surface.
  - A fire department access road shall extend to within 50 ft (15 m) of at least one exterior door that can be opened from the outside and provides access to the interior of the building.
- Perimeter Access – Any portion of the building(s) or any portion of the exterior wall of the first story of the building(s) shall be no further from a fire department access road(s) than the distances indicated below. The distances shall be measured from the fire department access road, along the path that would be walked by fire department personnel.
  - Non-sprinkler Building – Shall not exceed 150 feet. Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 ft (46 m) from fire department access roads as measured by an approved route around the exterior of the building or facility.

- Sprinkler Building – Shall not exceed 450 feet. When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13, NFPA 13D, or NFPA 13R, the distance in NFPA 1, 18.2.3.2.2 shall be permitted to be increased to 450 ft (137m).
- Surface – Fire department access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be provided with an all-weather driving surface. Materials and systems other than asphalt or concrete will require additional information subject to approval by Permit and Inspection Services.
- Curb Cuts – Fire Department Access Roads connecting to roadways shall be provided with curb cuts extending at least 2' beyond each edge of the fire department access road.
- Multiple Access Roads – More than one fire department access road shall be provided if access by a single access road could be impaired by vehicle congestion, condition of terrain, climatic conditions, or other factors. Permit and Inspection Services shall make the final determination for the necessity of additional Fire department Access Roads.
- Turnarounds – All Fire Department Access Roads, in excess of 150' must be provided with an approved means for fire department apparatus to turn around.
- Obstructions to Fire Department Access – Fire Protection Site Plan shall indicate gates, bollards, or other obstructions to Fire Department Access in the roads. If these obstructions are designed to permit Fire Department Access, information regarding the method of access shall be provided.
- Marking – Provide any proposed signage pertaining to the Fire Department Access and Fire Lanes.
- Fire Hydrants – Show the location of all fire hydrants on the project site.
- The location of the Fire Department Connection (FDC or Siamese connection) should be shown if location of the FDC is known or anticipated. A fire hydrant is required to be within 100' of the FDC.
- Fire Flow Data – Provide calculations showing the required fire flows, per NFPA 1, Section 18.4. and documentation providing the anticipated fire flow provided on-site.

### **Means of egress summary Requirements**

- Exit Termination – Show all exit points on the building(s), providing emergency egress for building occupants.
- Exit Discharge – Beginning at the exterior of the building(s), provide the following information for the exit discharge.
- Width - The width of the walking surface shall be indicated and shall not reduce to less than is required based upon the occupant load.
- Surface – Walking surface materials must be stable, level, slip resistant and free of tripping hazards.
- Path to a Public Way – Provide the path of exit discharge from the exterior of the building(s) to a public way.
- Special Provisions – Provide special egressing arrangements (e.g., discharging into a secured, outside enclosure, or courtyard) for consideration by the Inspection Services Division.

Fire prevention office contact: [fpo@voslwi.org](mailto:fpo@voslwi.org) / 262-298-5635

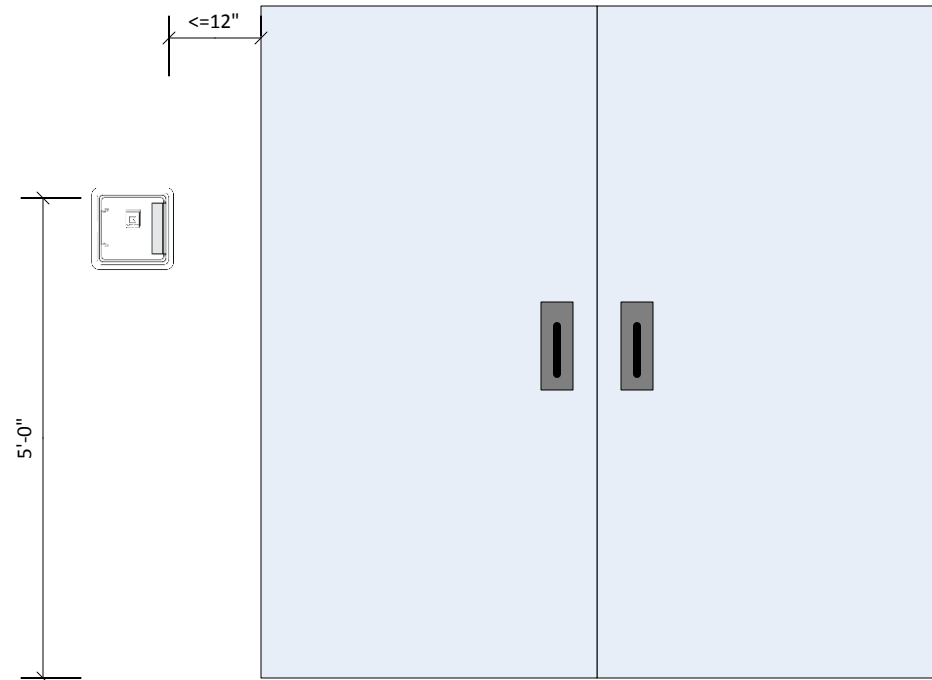
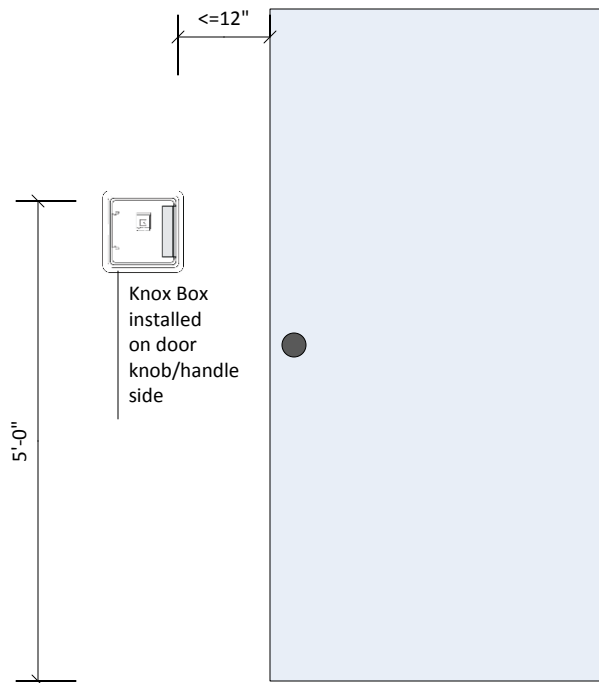
# Knox Box Placement Guide

Village of Salem Lakes  
Fire & Rescue

11252 254th Ct. Trevor, WI 53179  
fpo@voslwi.org  
262-298-5635  
www.villageofsalemlakes.org

On Recessed boxes, measurements are taken from box base (inside of flange)

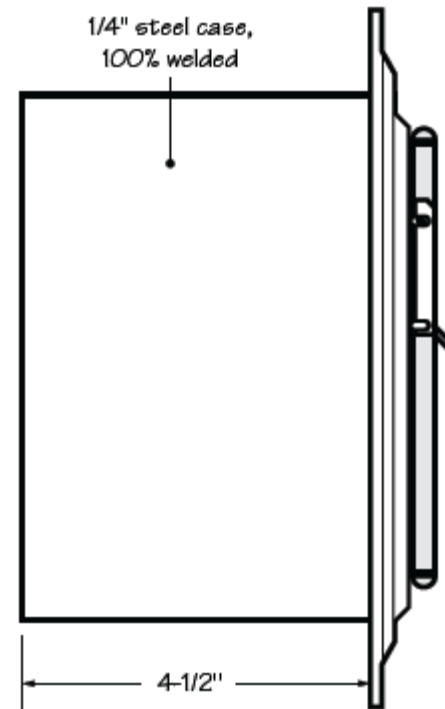
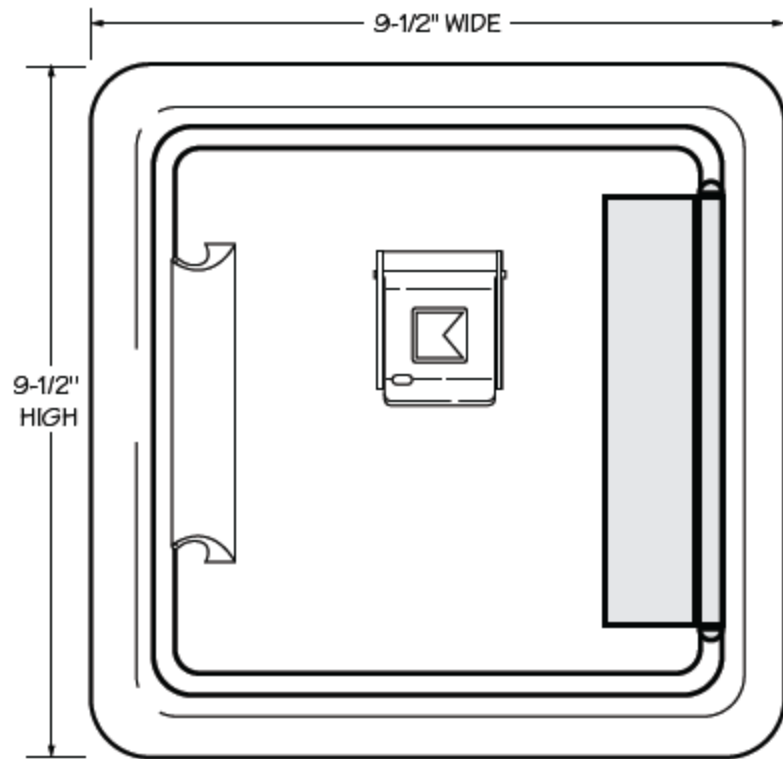
**NOTE: To order Knox Boxes – contact the Fire Department. Knox Company will only accept orders from the Fire Department.**

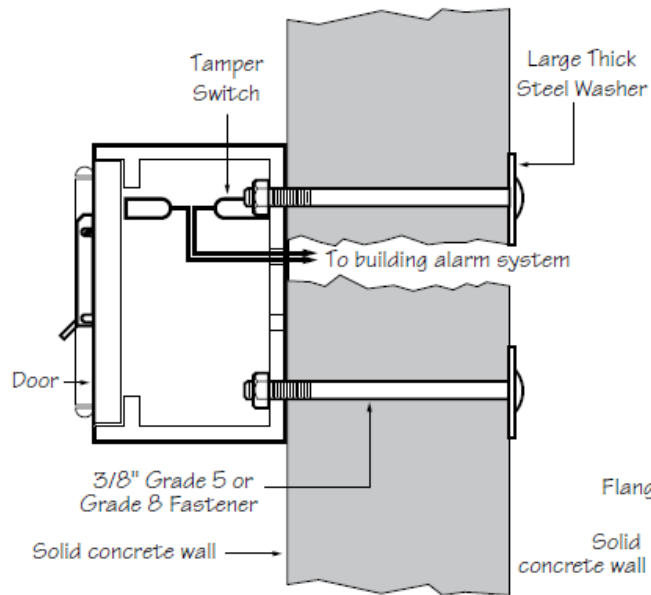


Typical installation locations for single and double doors. Exterior features such as lighting or stairways may alter standard installation locations.

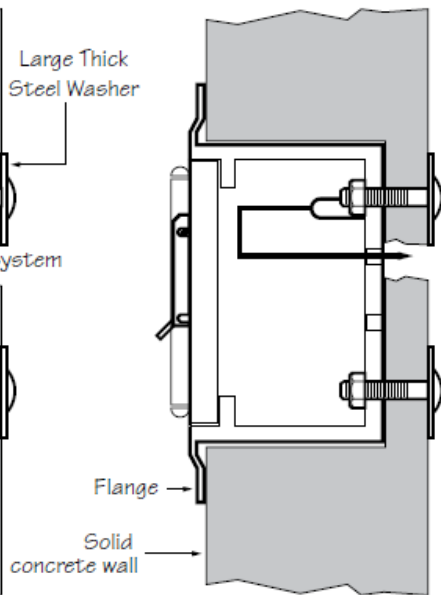
Consult Fire Department prior to installations that may not fit typical locations and/or doorways.

To order Knox Boxes go to: <https://www.knoxbox.com/6179>

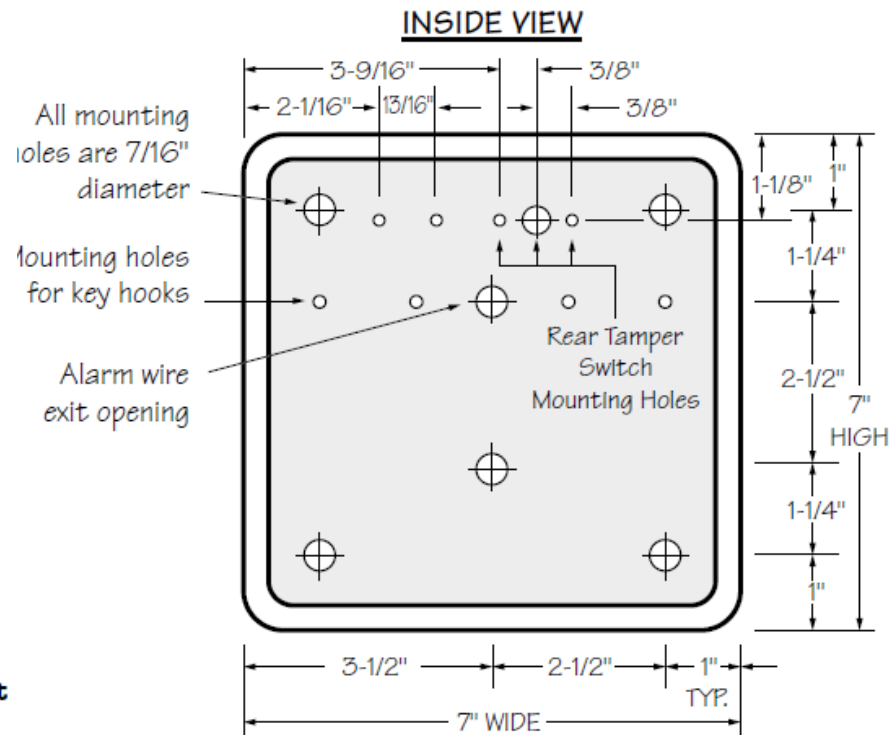




**Series 4400 Surface Mount**

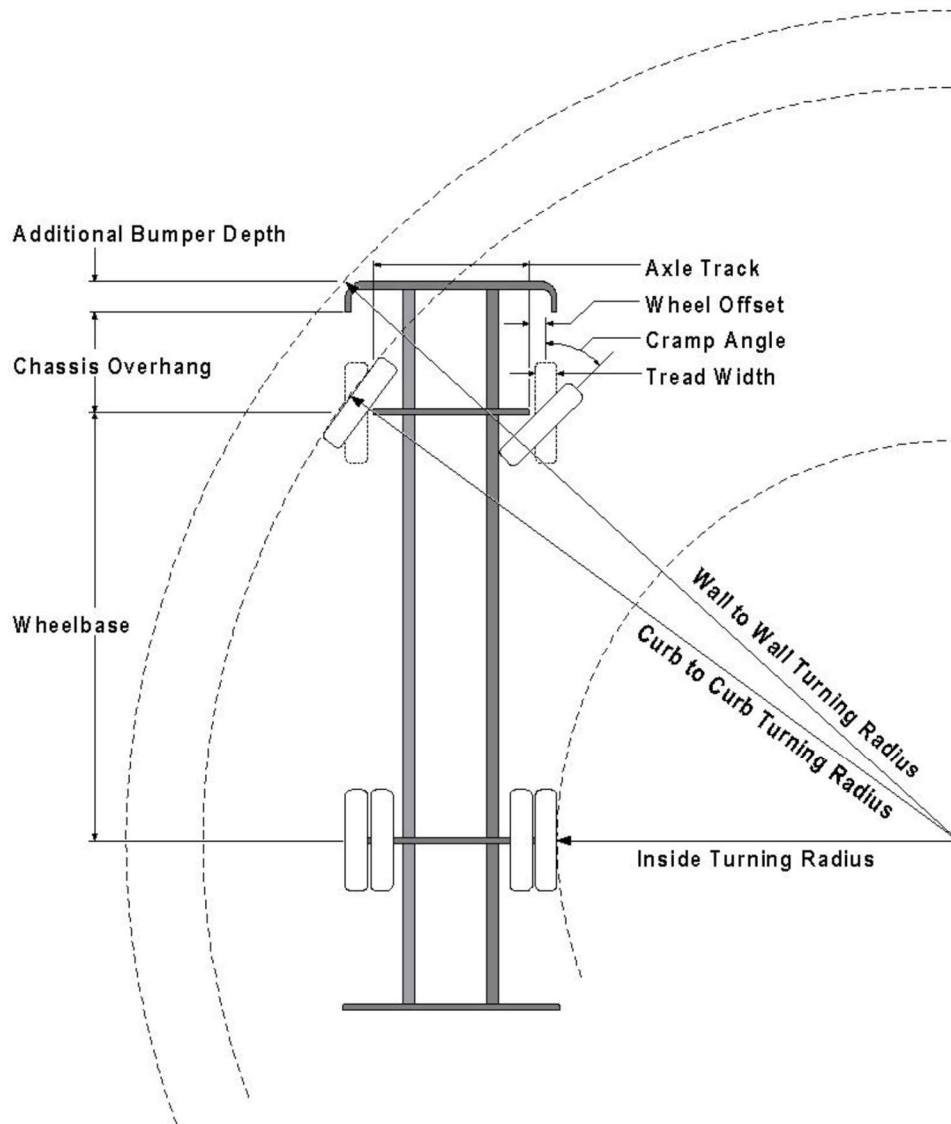


**Series 4400 Recessed Mount**



# Turning Performance Analysis

## Salem Lakes Fire Rescue – Engine Radius

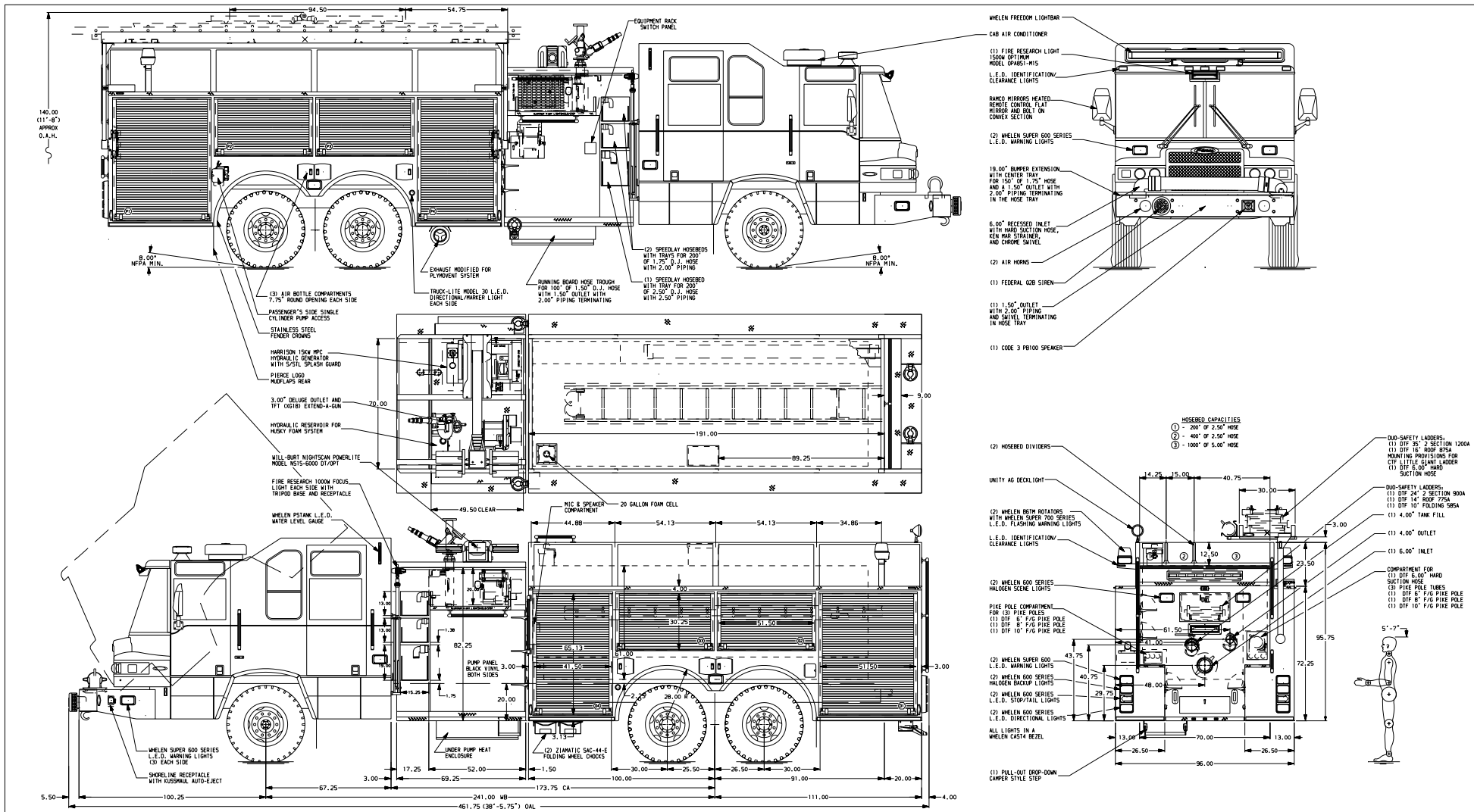


### Calculated Turning Radii:

Inside Turn: 25 ft.

Curb to curb: 39 ft.

Wall to wall: 43 ft. 1 in.



ALUMINUM BODY      MAXIMUM O.A.H. 141.00"

**NOTE**  
 DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR DEVIATIONS AS MAY OCCUR OR BE NECESSARY IN CONSTRUCTION.  
 MINOR DETAILS NOT SHOWN.

1. VOGEL LUBE SYSTEM PUMP LOCATED PER SHOP ORDER
2. BATTERY CHARGER LOCATED IN AREA EAR REAR RISER
3. MOUNTING BASE FOR ANTENNA LOCATED PER SHOP ORDER
4. ONE FLEW MOUNTED SLIDE-OUT TRAY IN COMPARTMENTS D1 AND P4
5. RACK FOR ROLLED HOSE STORAGE LOCATED IN COMPARTMENT D4
6. ALUMINUM PRESSURE HOSE REARER LOCATED IN COMPARTMENT D2
7. SLING-OUT TOOL BOARD IN COMPARTMENTS D3 AND UPPER D4
8. ONE ADJUSTABLE SHELF IN COMPARTMENT P3 TWO IN D1, D2, AND P4
9. CIRCUIT BREAKER PANEL IN COMPARTMENT D4

10. ONE HANNAY ELECTRIC REMIND CORO REEL MODEL 1618-17-18 WITH 200' OF 1/2" CABLE, ALUMINUM SWIVEL HOSE HOLDERS AND WITH CAPTIVE ROLLER ASSEMBLY LOCATED IN CARGO AREA
11. ONE HANNAY ELECTRIC REMIND HYDRAULIC HOSE REEL MODEL 2016-17-18 WITH CAPACITY FOR 100' OF 1.50" I.D. DUAL HYDRAULIC HOSE LOCATED BEHIND PASSENGER'S SIDE PUMP PANEL
12. 120' OF 1.50" I.D. DUAL HYDRAULIC HOSE LOCATED IN THE CAB
13. (1) 20 AMP 240V RECEPTACLE ON THE PASSENGER'S SIDE PUMP PANEL

CUSTOMER APPROVAL				JOB NO. 21215 01-03	
APPROVED BY:				SCALE 1:24	DATE
DATE:					
CHASSIS DATA	TITLE	1500-D-2020 2000 GAL WATER W/20 GAL FOAM CELL, 211" TNKR, DS F-H R FDLER, PS F-HRD F, F-H R FDLER			
FOR	SALEM FIRE DEPARTMENT SALEM, WI	DRWN BY	GSBU	130CT08	
DWG NO.	21215AD	CHECKED BY	ASI	140CT08	
REV DATE BY CH	QX6712	SHEET SIZE	D	SHEET NO. 1 of 1	