



**TOWN OF RANDOLPH
MASSACHUSETTS**

FIRE DEPARTMENT

10 MEMORIAL PARKWAY RANDOLPH, MA 02368-4506
RONALD J. CASSFORD, CHIEF OF DEPARTMENT
BUSINESS: 781.961.0991 / 0992
FAX: 781.961.FIRE (3473)
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**OFFICE OF FIRE PREVENTION
AND CODE ENFORCEMENT**

January 18, 2024

Michelle Tyler
Director of Planning
Town of Randolph
41 South Main Street

Dear Ms. Tyler,

The Randolph Fire Departments Office of Fire Prevention and Code Enforcement has reviewed the Billings/Scanlon/High Street proposal. The fire apparatus mentioned on Exhibit E3.0, identified as the "Spartan Gladiator Star Series Aerial," should be updated to accurately reflect the Randolph Fire Department's utilization of an E-One Typhoon Aerial Platform with slightly larger dimensions. I have attached a specification sheet containing information on turning radius and apparatus dimensions.

After this correction, the designated traffic patterns for the properly identified fire apparatus would be suitable for the proposed occupancies. However, we have concerns regarding access to the hotel property at 1374 North Main Street. Currently, during emergency responses to incidents at this location, a section of Billing Street connecting to the hotel's parking lot is utilized. This access point is crucial for emergency responders as it provides entry to the sprinkler room side of the occupancy.

Blocking or closing this access point would create a dead end for apparatus entering from Scanlon Drive and North Main Street (Rt 28). In such a scenario, apparatus would be required to reverse out of the hotel parking lot, leading to potential traffic congestion, delays in response to other emergencies, possible accidents, and the need for additional personnel to assist or guide apparatus operators exiting the property.

To address these concerns, it is respectfully requested that some form of access point be maintained between the two properties, namely 6 Billing St and 1374 North Main St. Additionally, any design or proposal related to this access point should undergo a thorough fire department review and receive comments prior to obtaining approval.

Respectfully,

Michael J. Austrino
Fire Captain
Office of Fire Prevention and Code Enforcement



SAE Turning Radius Calculations for Quote No. 98168				
Wheelbase:		250"	Front Bumper Size:	10"
Body Width:		100"	Front Bumper Extension:	20"
Front Axle Kingpin Center:		70.66"	Front Wheel Type:	ALUMINUM
Front Axle Track:		84.46"	Rear Wheel Type:	ALUMINUM
Front Axle Tire Width:		16.6"	Tire Brand:	MICHELIN
Dimension Over Rear Tires:		98.59"		
Body Front Overhang:		92"		
Inside Cramp Angle	S. A. E. Turning Radius	Tire Curb Clearance	Bumper Swing Clearance	Minimum Inside Radius
35	41.9'	42.6'	46.6'	28.6'
36	40.9'	41.6'	45.7'	27.5'
37	40.1'	40.7'	44.9'	26.5'
38	39.2'	39.9'	44.2'	25.5'
39	38.4'	39.1'	43.5'	24.6'
40	37.7'	38.4'	42.8'	23.7'
41	37'	37.7'	42.2'	22.8'
42	36.3'	37'	41.6'	22'
43	35.7'	36.4'	41'	21.2'
44	35'	35.7'	40.4'	20.4'
45	34.5'	35.2'	39.9'	19.7'
46	33.9'	34.6'	39.4'	19'
47	33.4'	34.1'	38.9'	18.3'
48	32.8'	33.5'	38.5'	17.6'
49	32.4'	33'	38.1'	16.9'
50	31.9'	32.6'	37.6'	16.3'
Nominal Cramp Angles:				
Meritor FL941 & FL943 axles: up to and including 425/65R22.5 tires			45 degrees	
Meritor FL941 & FL943 axles: 445/65R22.5 tires			38 degrees	
Dana 1220W axle: up to and including 445/65R22.5 tires			42 degrees	
Reyco IFS: up to and including 385/65R22.5 tires			48 degrees	
Reyco IFS: 425/65R22.5 tires			45 degrees	
Reyco IFS: 445/65R22.5 tires without front intake			42 degrees	
Meritor Front Drive Axle: up to and including 425/65R22.5 tires			37 degrees	
Marmon Herrington Front Drive Axle: up to and including 425/65R22.5 tires			42 degrees	
This Turning Radius report reflects how the quote was configured. Any succeeding changes may slightly alter the turning radius of the vehicle and the data in this report.				



RANDOLPH FIRE DEPT

RANDOLPH, MA

S.O. 144171/Q 98168

AERIAL BODY

TYPHOON 6 X 4 CHASSIS

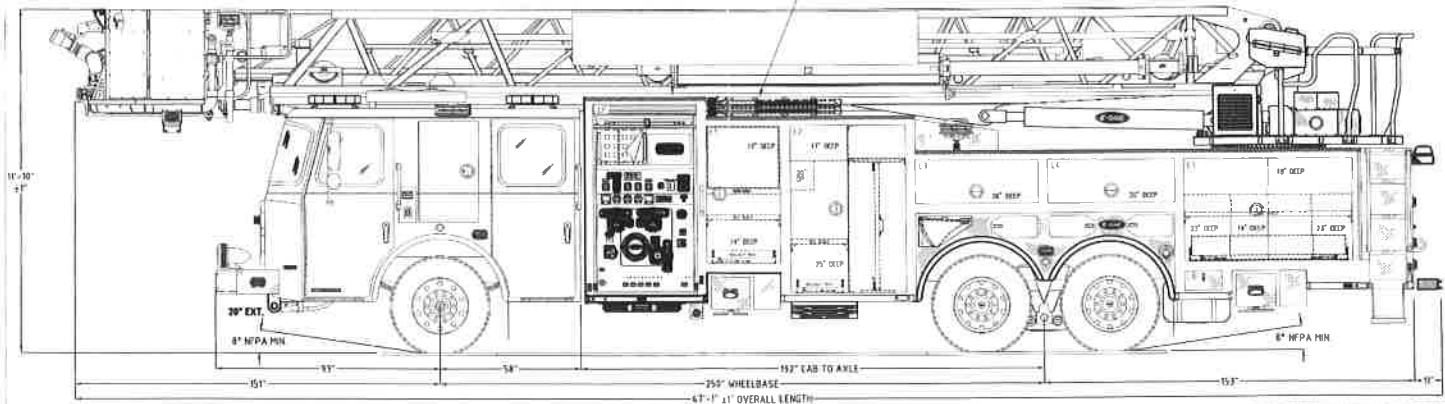
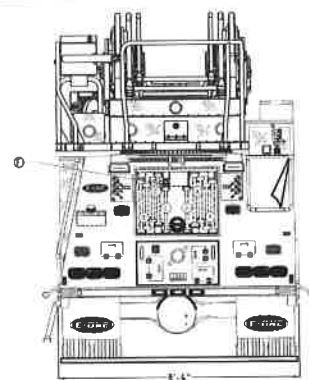
HP 100 AERIAL PLATFORM

THIS DRAWING IS FOR INFORMATION PURPOSES. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.	
DATE: 01/01/01	BY: JAS
CHECKED: 01/01/01	CHK: JAS

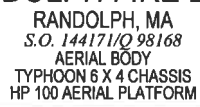
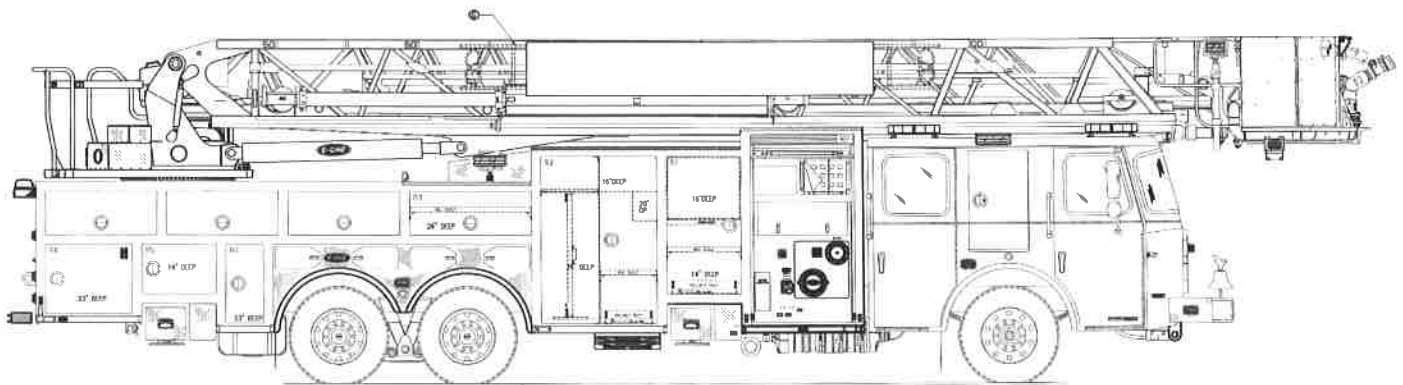
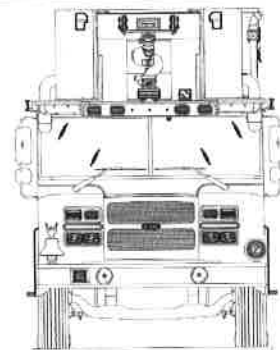
2000 GPM HALE QUAX PUMP	
300 GALLON WATER TANK	
HOSE LOAD	
600' OF 4.00" LBN	

COMP.	OPENING	INTERIOR DIMENSION
L1/R1	51W 51H	28W 28H 28D
L2/R2	48W 48H	25W 25H 25D
L3/R3	50W 10H	50W 18H 26D
L4	52W 18H	52W 18H 20D
R4	15W 32H	15W 52H 23D
R5	31W 20H	31W 20H 14D
R6	15W 8H	15W 8H 23D
R6	36W 28H	36W 28H 23D

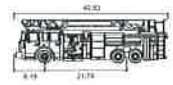
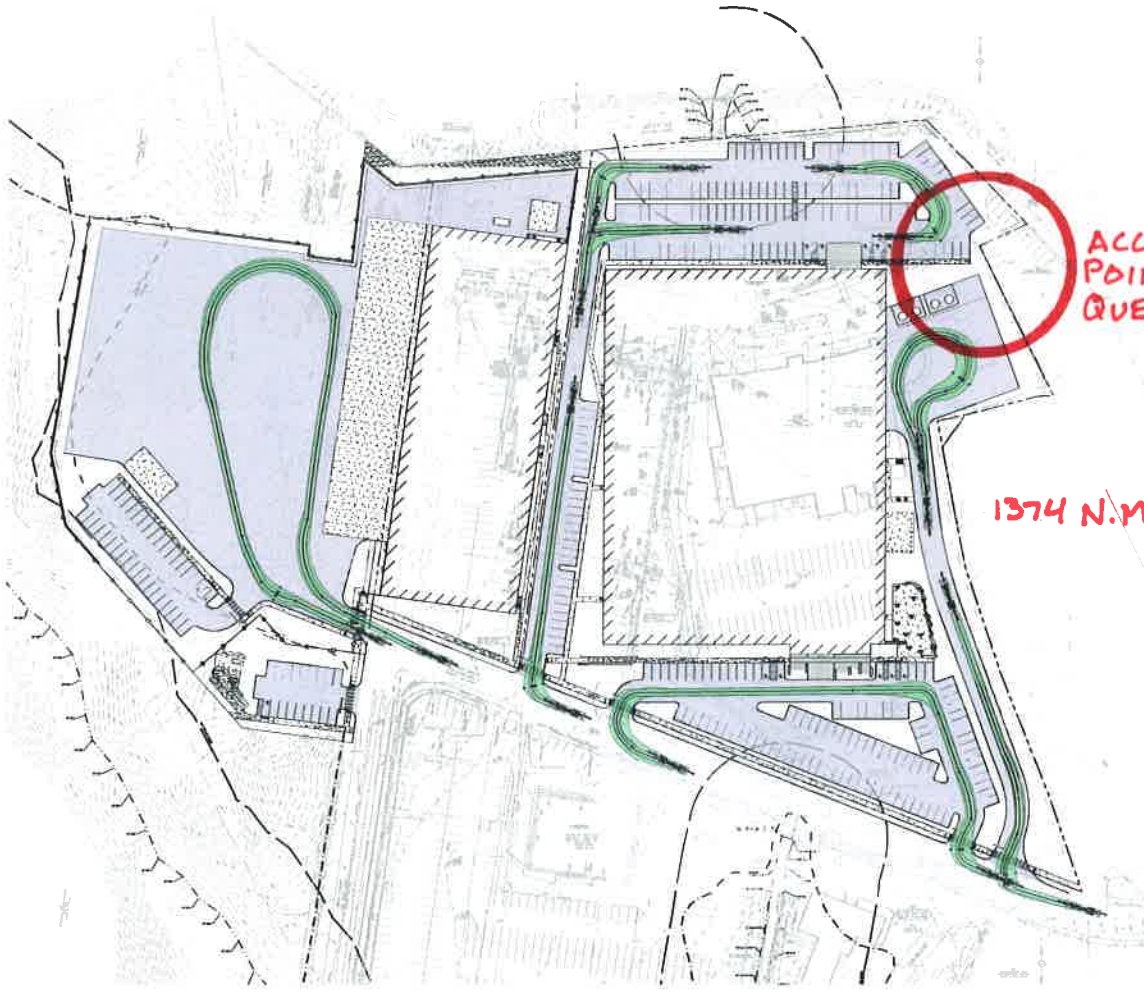
GROUND LADDERS			
ITEM	LADDER LENGTH	MODEL NUMBER	QTY
A	20' 3-SECT.	PEL-35	2
B	24' 3-SECT.	PEL-38	1
C	24' 3-SECT.	PEL-34	1
D	20' ROOF	PEL-20	1
E	16' ROOF	PEL-16	1
F	10' FOLDING	FL-10	1
G	16' ROOF	PEL-16	1 ON AERIAL
H	LITTLE GIANT	MODEL 17	1



1/4" = 1'-0" SCALE
DATE: 01/01/01
BY: JAS
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[illegible]

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Spartan Gladiator Star Series Aerial
 Total Length 42.00
 Width 8.25
 Track 7.50
 Lock to Lock Time 0.0
 Steering Angle 45.0



Stantec

VERTEX

CORE INVESTMENTS, INC.

North

PRELIMINARY
NOT FOR
CONSTRUCTION

Scale: AS SHOWN
 Project No. 1620
 FIRE TRUCK EXHIBIT

E3.0