

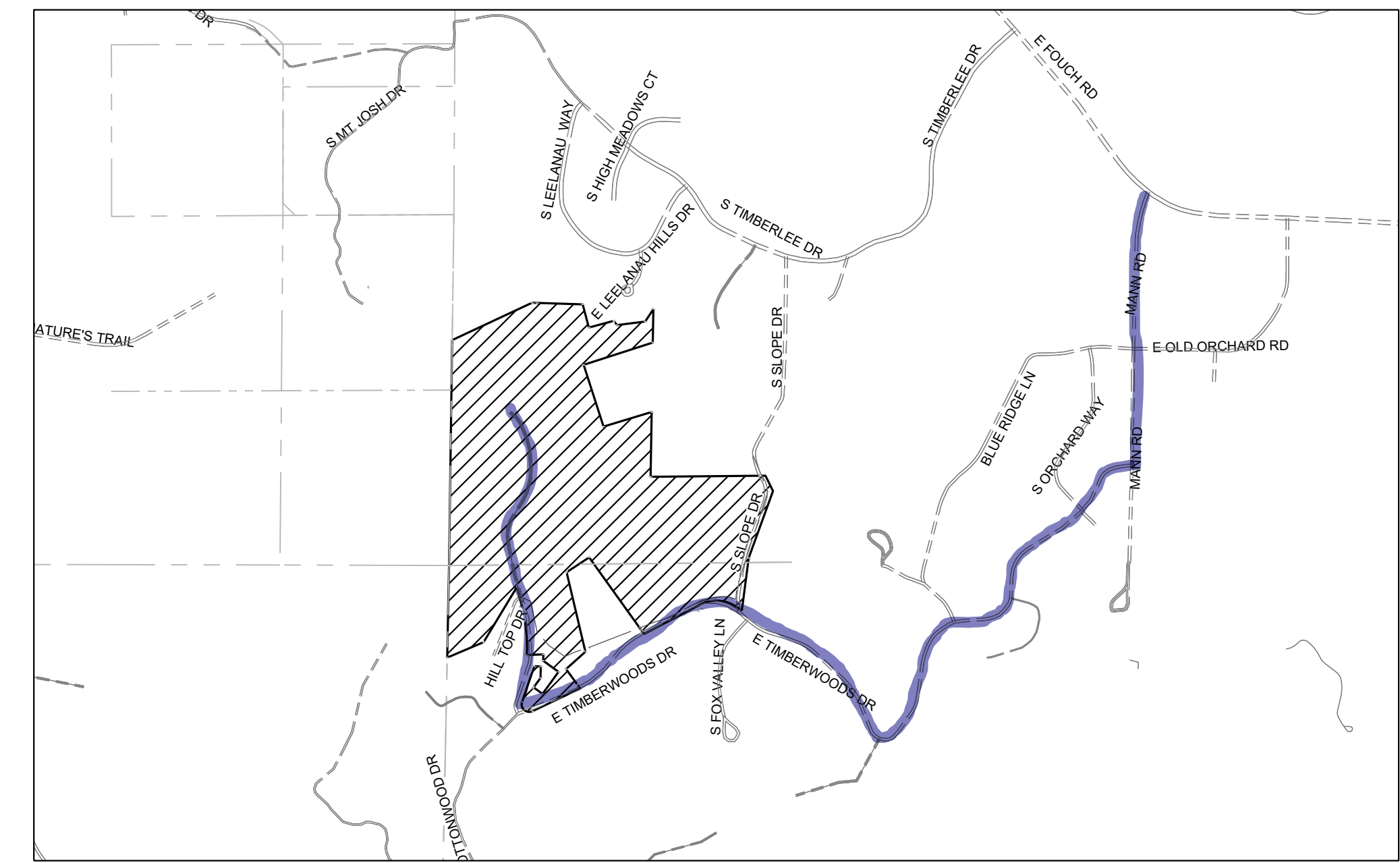
LEGEND

- 24' WIDE 2-WAY PAVED PRIMARY ACCESS DRIVE
- 18-20' WIDE 2-WAY PAVED SECONDARY ACCESS DRIVE
- PARKING
- FIRE TRUCK TURNAROUNDS PER ELMWOOD TOWNSHIP ROAD STANDARDS
- FIRE HYDRANT

Requirement	Distance
Width	Minimum 20ft
Vertical Clearance	Minimum 13ft 6in
Grade	Not to exceed 1ft drop in 20ft
Distance of access road to exterior door	Maximum 50ft
Distance of access road to any portion of the facility or any portion of an exterior wall of the first story of the building	Maximum 450ft

*All buildings to be sprinklered thus all distances will use the approved automatic sprinkler system option.

FIRE ACCESS ROAD REQUIREMENTS



PUBLIC ACCESS PATH

SCALE: 1"=1000'

Building	Area (sf)	Construction Type	Fire Flow Demand per NFPA 1 Fire Code			
			Maximum Capacity (gpm)	Reductions	Resulting Capacity (gpm)	Pressure
Hillside Homes	~8000	Type III	2000 gpm for 2 hour	(1) Provided an approved automatic sprinkler system [Reduction in req'd fire flow of 75%]. Resulting fire flow shall not be less than 1000 gpm.	1000 gpm for 2 hours	20 psi
Tree Houses	~1300	Type III	1500 gpm for 2 hour	(1) Provided an approved automatic sprinkler system [Reduction in req'd fire flow of 75%]. Resulting fire flow shall not be less than 1000 gpm.	1000 gpm for 2 hours	20 psi
Health and Wellness	~52600	Type III	4750 gpm for 4 hours	(1) Provided an approved automatic sprinkler system [Reduction in req'd fire flow of 75%]. Resulting fire flow shall not be less than 1000 gpm.	1187.5 gpm for 4 hours	20 psi
Lodge	~88600	Type III	6250 gpm for 4 hours	(1) Provided an approved automatic sprinkler system [Reduction in req'd fire flow of 75%]. Resulting fire flow shall not be less than 1000 gpm.	1562.5 gpm for 4 hours	20 psi

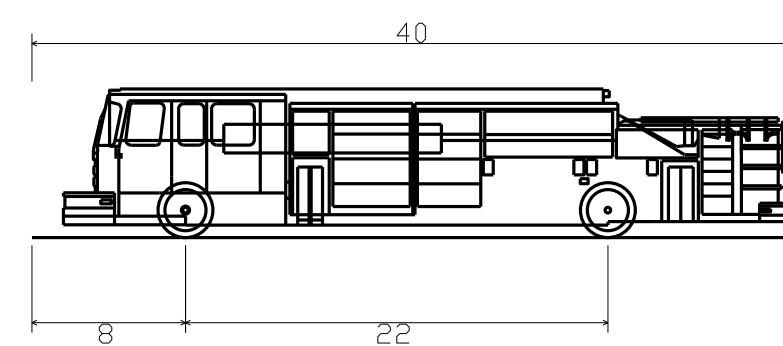
(1) NFPA 1 Section 18.4.5.3.2

Distance to Building	Maximum Capacity	Pressure	Minimum Hydrants Needed per Building
≤ 250ft	1500 gpm	20 psi	1.04
>250ft and ≤ 500ft	1000 gpm	21 psi	1.56
> 500ft and ≤ 1000ft	750 gpm	22 psi	2.08

- (1) Maximum distance to a fire hydrant from the closest point on the building shall not exceed 400ft.
- (2) The maximum distance between fire hydrants shall not exceed 500ft.
- (3) Fire hydrants shall be located not more than 12 ft from access road.
- (4) Minimum hydrants required was calculated using the greatest resulting fire flow demand.

FIRE FLOW DEMAND CALCULATIONS

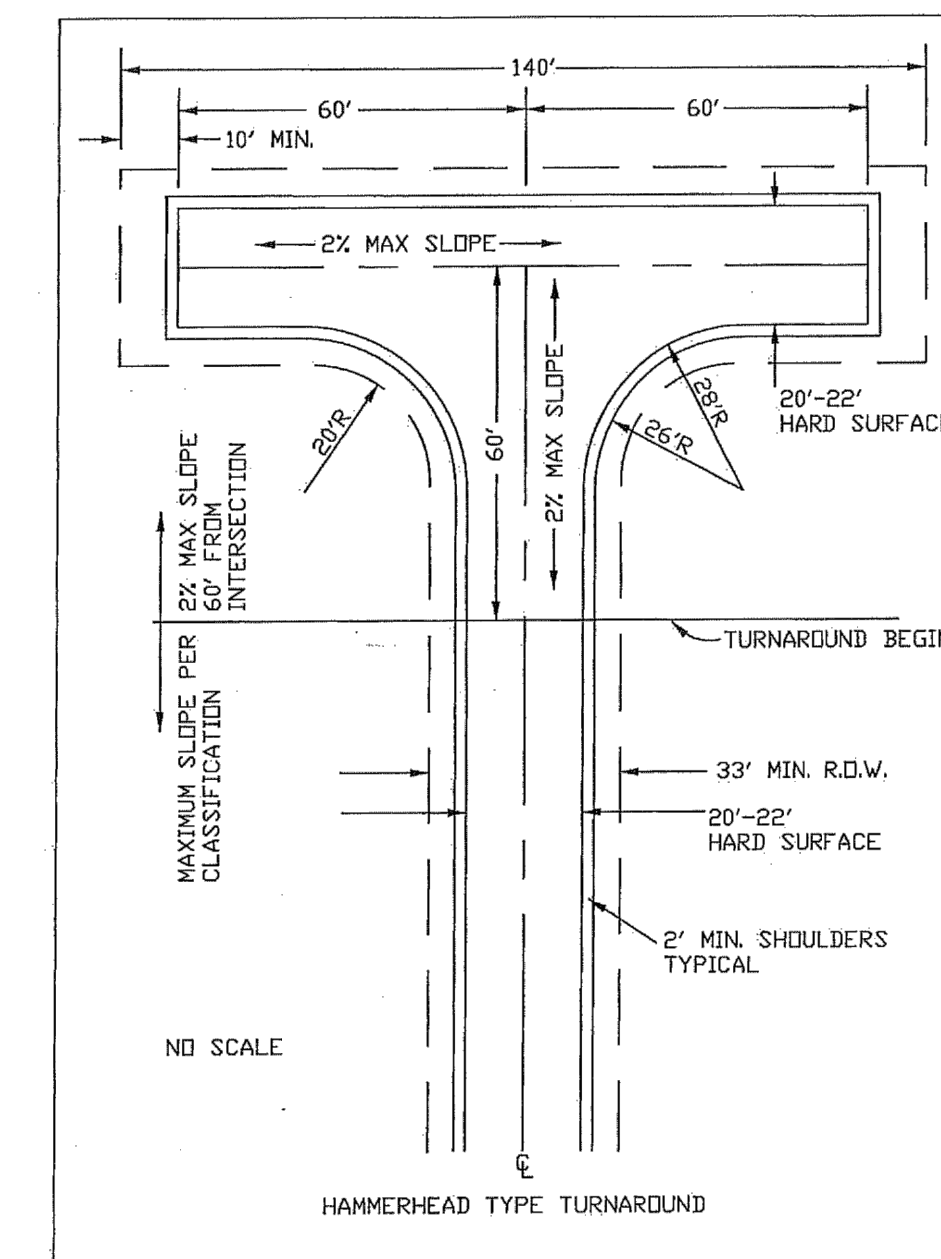
MINIMUM FIRE HYDRANT CALCULATION



Pumper Fire Truck
Overall Length 40.000ft
Overall Width 8.167ft
Overall Body Height 7.745ft
Min Body Ground Clearance 0.656ft
Track Width 8.167ft
Lock-to-lock time 5.00s
Max Wheel Angle 45.00°

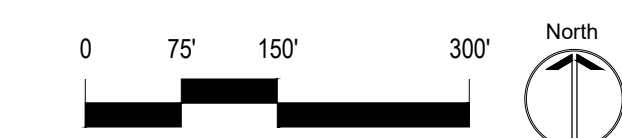
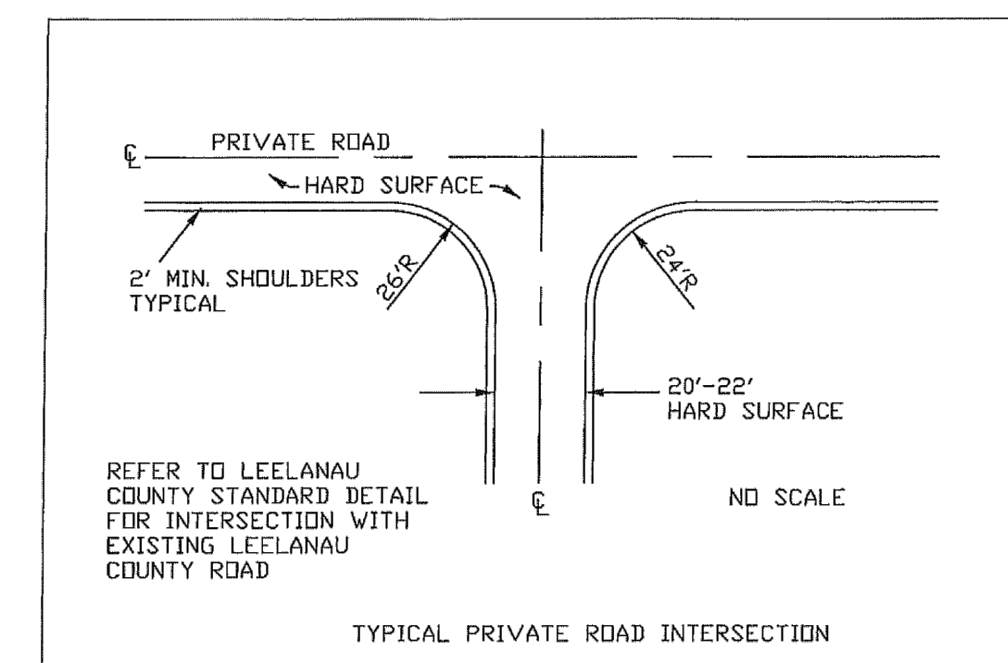
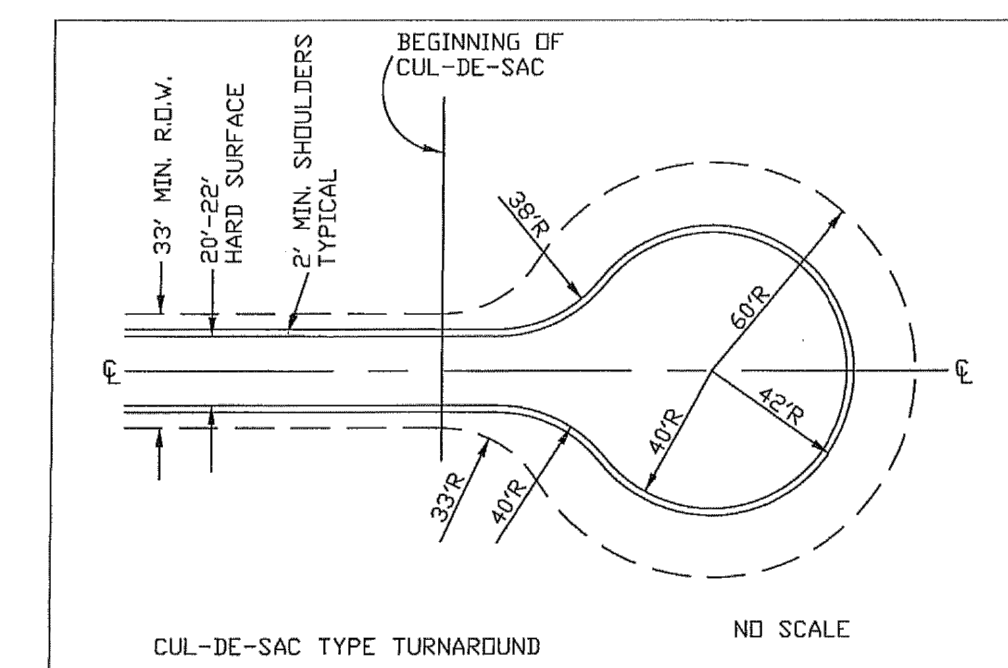
PUMPER FIRE TRUCK TEMPLATE

NTS



ELMWOOD TOWNSHIP DETAILS

NTS



SCALE: 1"=1000'

Note: If this graphic scale does not equal 1", this sheet has been modified from its original scale.

NO.	DATE	REVISION

4000 Sherwood Design Engineers
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PROJECT NO. 21-112

DATE JULY 15, 2022
DRAWN PC
DESIGNED PC
CHECKED MH

NOT FOR CONSTRUCTION

Wellivity
Pre-Application

SITE FIRE PROTECTION
PLAN - OVERALL

DRAWING NO. **C2.00**

