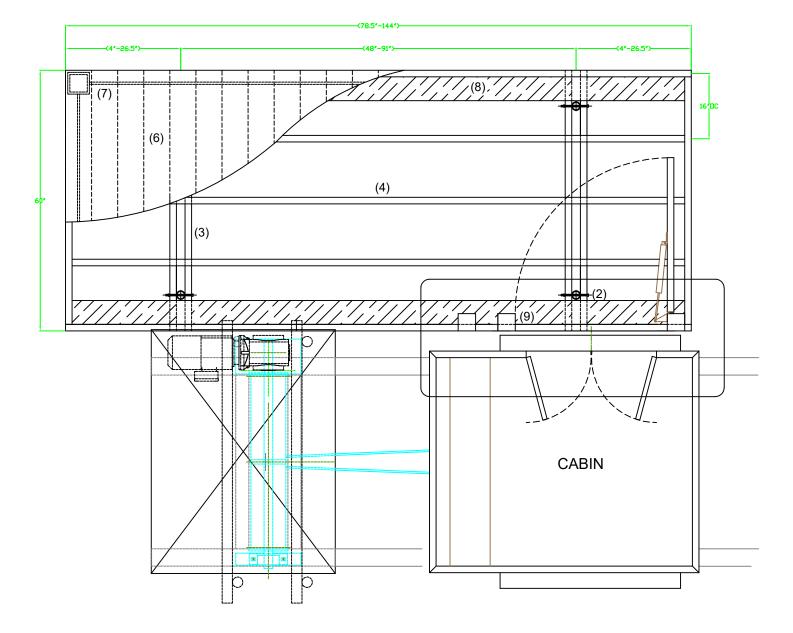


### UPPER STATION DECK PLAN VIEW

#### **UPPER DECK**

- (1) Upper Station Deck (Standard size 12' x 5')
- (2) 6061-T6 Aluminum Construction pilings (4)
- (3) 2" x 8" Pressure treated headers (4) (3/8" bolt to pipe)
- (4) 2" x 6" Floor Joists (16" O.C. 5)
- (5) Joist(s) will cantilever maximum of 2'-2.5"
- (6) 5 / 4 Pressure treated or composite decking boards
- (7) Railing installed on perimeter of deck @ 40" high
- (8) 2" x 6" Blocking for railing post mounts (2)
- (9) Entry Door: 4"x4" spacing 39" O.C. (35" opening) & 9 1/8"
- O.C. (5 1/8" opening)



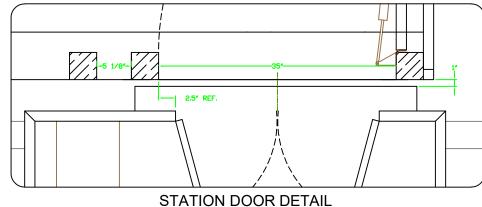
REVISIONS									
		DESCRIPTION	DATE	APPROVED					

#### HOIST FRAME & UPPER DECK FOUNDATION

A pillar foundation design has been developed for the hoist station & upper station deck which eliminates the need for excavation and pouring of concrete. The design consists of (4) 2" dia. Sch. 40 Foundation pilings driven to a target depth of 42" or refusal. The pilings are made from 6061-T6 aluminum which has an ultimate stress of 45ksi and a yield strength of 40ksi. With a projection of 12" the horizontal load strength of each piling is greater than 1880 lbs. In shale and gravel type soil conditions the pilings provide sufficient bearing area on the soil to stay within acceptable design limits.

In cases where the Foundation pilings cannot be driven into the ground or the refusal depth is less than 30", an alternate anchoring method will be employed. A 2' length of #4 (0.5" dia.) rebar is cemented into a 1" diameter drilled hole 12" deep. The piling is then inserted over the rebar and cemented in place using CGM Super Por-Rok Exterior Anchoring Cement (or equivalent). The working bond strength is approximately 3800 lbs.

The deck is supported by (4) 2" dia Sch. 40 Foundation pilings driven to a target depth of 42" or refusal. Headers are then placed on the pilings using 2"x 8" pressure treated joined together by Exterior 3/8-in x 8" duplex coated carriage bolts (2x more corrosion resistant than galvanized bolts). Joists are framed together using 2"x 6" pressure treated with deck boards (composite or pressure treated) installed last. Hand railing is installed with a minimum height of 40".



# GENERAL ARRANGEMENT UPPER STATION

## FINGER LAKES TRAM LLC

MACEDON, NY

SIZE B	FSCM NO.		DWG NO. GA 003 Upper Station Deck			RE\
SCALE	NONE	DATE	11/30/20	SHEET	1 OF 1	

