

STORMWATER PLAN:

DESIGN CRITERIA:

10 YEAR 24 HOUR RAINFALL = 3.3"
(SOURCE: MDOT MS4 REPORT)
= (0.28") = 0.011' /hour

INFILTRATION RATE OF SOIL = 0.2"/hr.
(SOURCE: USDA) = 0.016"/hour x 24 hrs. = 0.384"
67% = 0.25' / storm event

DESIGN STORM VOLUME = 4,043 s.f.
IMPERVIOUS x 0.28' = 1,132 cu. ft.

ABSORPTION AREA OF 10' STRIP AROUND
PERIMETER OF BUILDING + ADD'L. 20' REAR
(SW) YARD = 5,273 s.f.

STORMWATER ABSORPTION = 5,273 s.f. x
0.25' = 1,318 cu. ft.

STORM VOLUME minus ABSORPTION =
REQUIRED DETENTION:
1,132 cu. ft. - 1,318 cu. ft. = 0 cu. ft. TO
BE DETAINED.

ABSORPTION AREA EXCEEDS STORM VOLUME.
NO STORM DETENTION REQUIRED.

SITE NOTES:

1. BICYCLE PARKING RACK IS PROVIDED AT
A RATE OF 1 PER GUESTROOM +7.
(24 TOTAL w/ 2 ELECTRIC CHARGING
STATIONS)
2. TRASH TO BE HELD WITHIN THE
BASEMENT AND TRASH HUTCH & SET
CURBSIDE ON COLLECTION DAYS.
3. LIGHTING - NO AREA LIGHTING
PROPOSED. COACH LIGHTING PROVIDED
AT BUILDING ENTRANCES SHIELDED TO
CONFINE LIGHT WITHIN THE SITE.
4. SEE STORMWATER NOTES THIS SHEET.

ZONING:

TAX I.D. #051-575-069-01

LOT 16A PC7 PART OF LOT 16 BLOCK 5
ASSESSORS PLAT NUMBER 4
TOWNSHIP 40 N, RANGE 3-2W, SECTION 36

DISTRICT: MD MARKET
LOT 16A
LOT AREA: 12,632.4 sf = 0.29 acres

ALLOWABLE HT: 30', 2 1/2 STORY
ACTUAL HEIGHT: 30', 2 1/2 STORY

ALLOWABLE LOT COVERAGE 12,632.4 sf x 35% =
= 4,421 sf

EX. HOUSE-PORCH-RAMP: +2049 sf
EXIST WALKS-FENCE: +300 sf
EXIST. RETAIN. WALL: +160 sf
REMOVED ITEMS: - 156 sf
PROPOSED ADDITION: +1490 sf
PRO. DECKS & WALK: +700 sf
TOTAL IMP.: 4043 sf = 32%

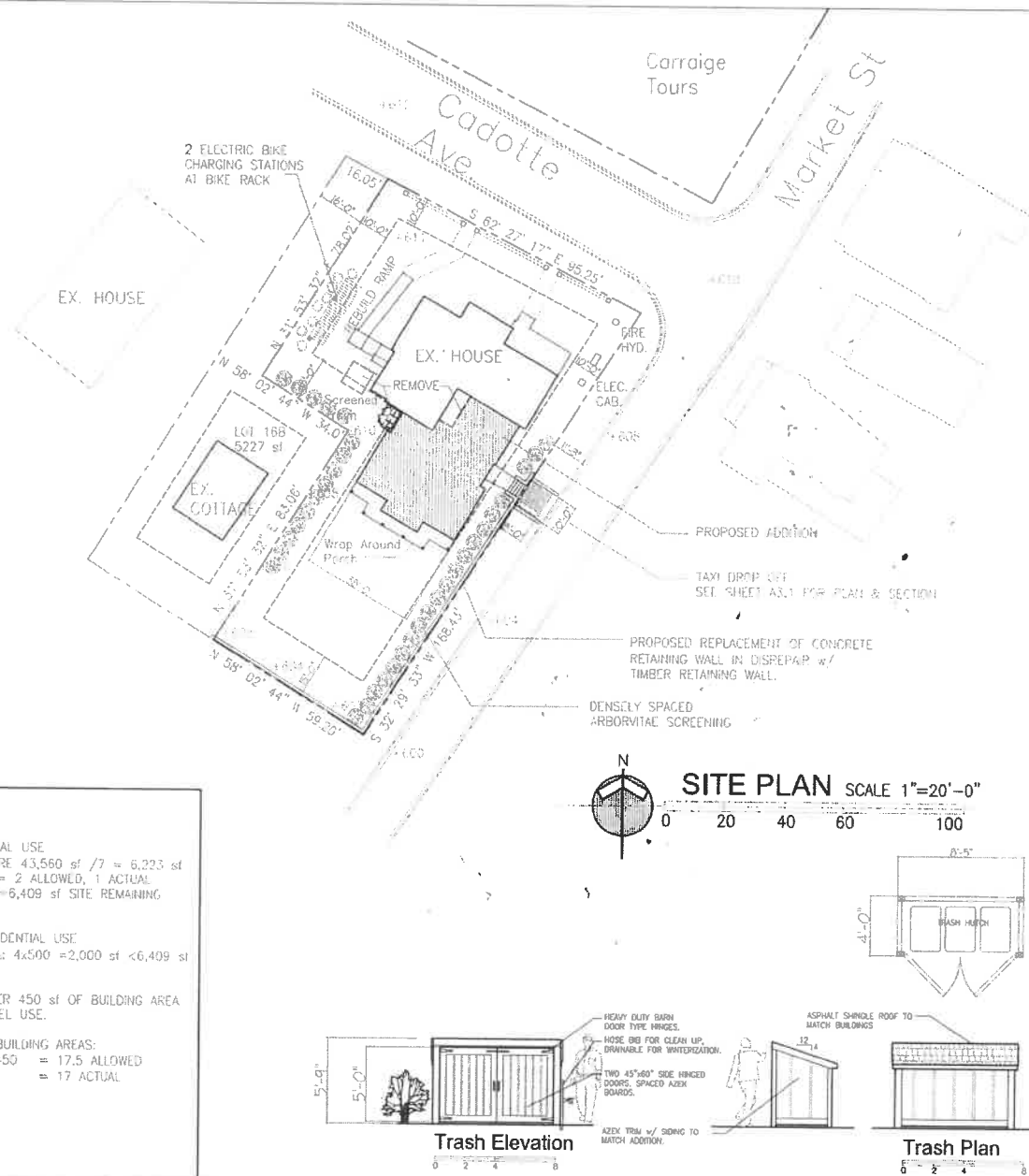
DENSITY:

HOTEL OPERATOR
FAMILY RESIDENTIAL USE
7 UNITS PER ACRE 43,560 sf / 7 = 6,223 sf
7x 0.29 ACRES = 2 ALLOWED, 1 ACTUAL
12,632 sf - 6,223 = 6,409 sf SITE REMAINING

EMPLOYEES: 4
NON FAMILY RESIDENTIAL USE
REQ'D. SITE AREA: 4x500 = 2,000 sf < 6,409 sf

HOTEL:
1 GUESTROOM PER 450 sf OF BUILDING AREA
DEVOTED TO HOTEL USE.

HOTEL RELATED BUILDING AREAS:
7911 sq. ft. / 450 = 17.5 ALLOWED
= 17 ACTUAL



PROJECT DESCRIPTION:
CONVERSION OF RESIDENCE TO
HOTEL USE w/ SOUTHEAST INFILL
AND ADDITION.

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**MAY COTTAGE
ADDITION-RENOVATION**

1395 CADOTTE
MACKINAC ISLAND, MI 49757

**FOR APPROVAL
NOT FOR CONSTRUCTION**

rev: 8.15.25 rev: 9.2.25

date: July 24, 2025 sheet:

project: 2433

PROPOSED

A1.0

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