

STORMWATER PLAN:

DESIGN CRITERIA:
 10 YEAR 24 HOUR RAINFALL = 3.3"
 (SOURCE: MDOT USA REPORT)
 = (0.28") = 0.011" /hour

INFILTRATION RATE OF SOIL = 0.2"/hr.
 (SOURCE: USDA) = 0.016"/hour x 24 hrs. =
 0.38" = 0.25" / storm event

DESIGN STORM VOLUME = 2,075 cu. ft.
 IMPERVIOUS x 0.28" = 581 cu. ft.

ABSORPTION AREA OF 7' STRIP AROUND
 PERIMETER OF BUILDING = 1,532 cu. ft.

STORMWATER ABSORPTION = 1,532 cu. ft. x 0.25"
 = 383 cu. ft.

STORM VOLUME minus ABSORPTION = REQUIRED
 DETENTION
 581 cu. ft. - 383 cu. ft. = 198 cu. ft.
 SURPLUS.

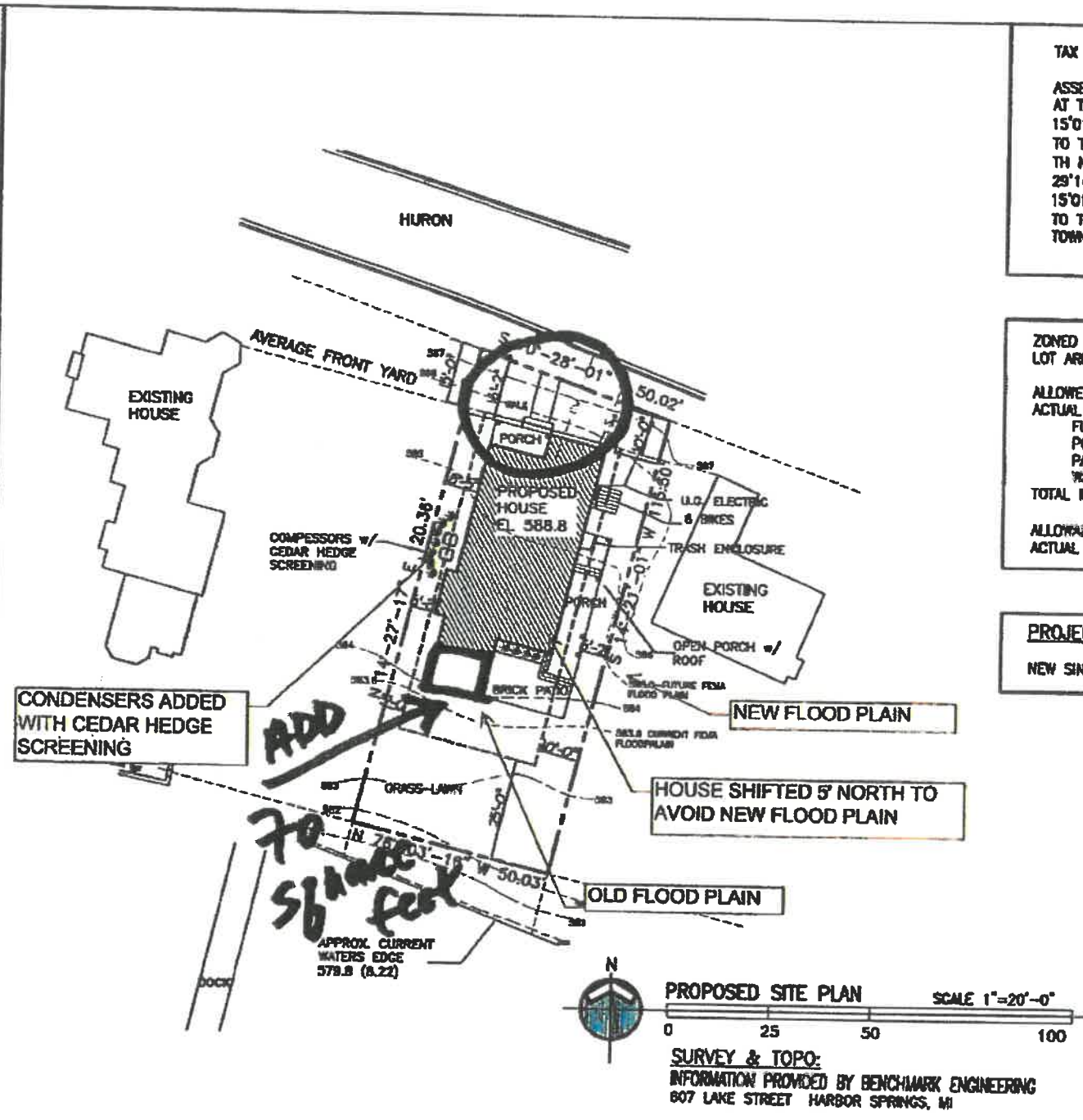
SITE SLOPES UNIFORMLY FROM STREET TO LAKE
 AT A NEAR CONSTANT 4% SLOPE. SURPLUS
 STORMWATER NOT ABSORBED INTO THE
 SURROUNDING 7' STRIP OF GRASS COVERED
 SOIL WILL DRAIN TOWARD THE LAKE AND BE
 ABSORBED IN THE (1,500 cu. ft. +/-) LAKE AREA
 DOWNSLOPE OF THE HOUSE.

SITE NOTES:

1. BICYCLE PARKING RACK IS PROVIDED AT A RATE OF 1 PER BEDROOM + 2 VISITORS. (5 TOTAL)
2. TRASH TO BE HELD WITHIN THE SIDE PORCH HUTCH ADJACENT TO THE EAST OF THE RESIDENCE AND 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

LEGEND:

- PROPERTY LINE
- SETBACK LINE
- S- SANITARY LINE
- W- WATER LINE
- U.G. ELECTRIC



TAX #051-525-025-10

ASSESSOR'S PLAT NO.2 PART OF LOT 71 COMM AT THE NE COR OF LOT 71 TH N 70 DEG 15'01"W ALG S'LY R/W OF HURON ST 52.0 FT TO THE POB TH S 14 DEG 23'02"W 115.59 FT TH N 78 DEG 03'11"W 50.0 FT TH N 14 DEG 29'14"E 120.64 FT TO HURON ST. TH S 70 DEG 15'01"E ALG S'LY R/W OF HURON ST. 50.0 FT TO THE POB. PARCEL "B" TOWNSHIP 40 N, RANGE 3-2W, SECTION 36

ZONED R-1
 LOT AREA = 6,146 SF = 0.14 ACRES

ALLOWED IMPERVIOUS = 35% = 2151 SF

ACTUAL IMPERVIOUS

FLOOR	= 1,484 sf
PORCHES	= 331
PATIO	= 200 sf
WALK	= 60 sf
TOTAL IMPERVIOUS	= 2,075 sf = 33.8%

ALLOWABLE HEIGHT = 35'-0" 2 1/2 STORY
 ACTUAL HEIGHT = 30'-0" 2 STORY

PROJECT DESCRIPTION:
 NEW SINGLE FAMILY RESIDENCE ON A VACANT LOT

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REV: OCT. 06, 2022

JIM & TRISH
 MURRAY COTTAGE
 8850 MAIN STREET
 MACKINAC ISLAND, MI

date: June 27, 2022 sheet:
 project: 2142

SITE PLAN A1.0

PROPOSED SITE PLAN SCALE 1"=20'-0"
 0 25 50 100

SURVEY & TOPO:
 INFORMATION PROVIDED BY BENCHMARK ENGINEERING
 607 LAKE STREET HARBOR SPRINGS, MI

