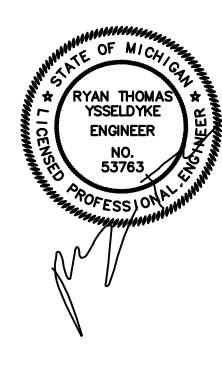
# INTERURBAN ADDITION



100 WILEY ROAD DOUGLAS, MI 49406

#### ZONING

R-1, RESIDENTIAL DISTRICT

35 FEET MIN.

7 FEET MIN. ONE SIDE, 18' MIN TOTAL

28 FEET MAX.

1,200 SF

MIN LOT AREA: 12,000 SF W/ SEWER

15,000 SF W/O SEWER

MIN LOT FRONTAGE:

MAX LOT COVERAGE: 35% FLOOR AREA RATIO: 0.4

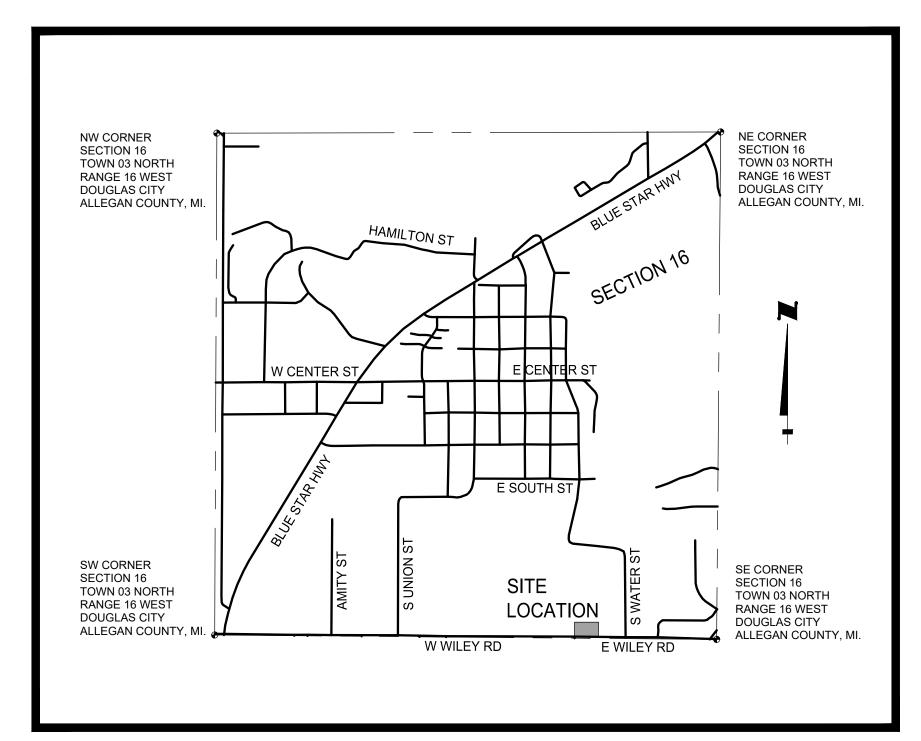
MIN FLOOR AREA:

4,304 SF LOT COVERAGE:

ADDITIONAL BUILDING AREA: 535 SF 4,839 SF TOTAL BUILDING AREA:

LOT COVERAGE: 11.1%

PER SECTION 4.02 OF THE CITY OF THE VILLAGE OF DOUGLAS ZONING ORDINANCE, BUILDINGS ASSOCIATED WITH PUBLIC FACILITIES ARE APPROVED SPECIAL LAND USES IN THE EXISTING R-1 ZONING DISTRICT.



LOCATION MAP NOT TO SCALE

#### DESCRIPTION

PER WARRANTY DEED RECORDED IN LIBER 2878, PAGE 763, ALLEGAN COUNTY PUBLIC RECORDS, MICHIGAN.

REAL PROPERTY LOCATED IN THE VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN, LEGALLY DESCRIBED AS:

PART OF THE SOUTHEAST 1/4 OF SECTION 16, TOWN 3 NORTH, RANGE 16 WEST, VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN DESCRIBED AS BEGINNING AT A POINT ON THE SOUTH LINE OF SECTION 16 DISTANT SOUTH 89° 07' 04" WEST 1279.62 FEET FROM THE SOUTHEAST CORNER OF SECTION 16 AND PROCEEDING THENCE SOUTH 89° 07' 04" WEST 256.86 FEET, ALONG THE SOUTH LINE OF SECTION 16; THENCE NORTH 02° 02' 18" WEST 169.62 FEET; THENCE NORTH 89° 07' 04" EAST 256.86 FEET; THENCE SOUTH 02° 02' 18" EAST 169.62 FEET PARALLEL WITH THE CENTERLINE OF WATER STREET TO THE POINT OF BEGINNING. SUBJECT TO ANY RESTRICTIONS AND LIMITATIONS OF RECORD.



#### TABLE OF CONTENTS

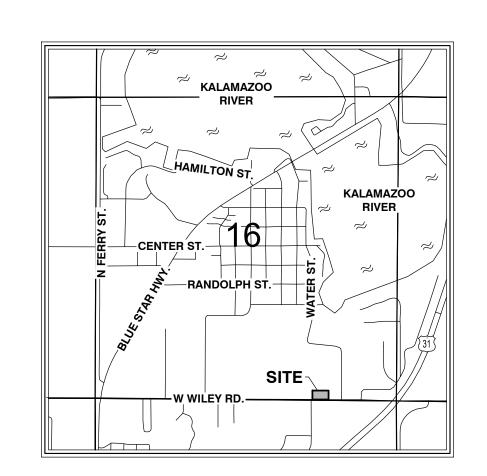
SHEET	G-100	COVER SHEET
SHEET	V-101	EXISTING CONDITIONS
SHEET	CD-101	CIVIL DEMOLITION PLAN
SHEET	C-101	SITE LAYOUT PLAN
SHEET	C-201	GRADING DRAINAGE & SESC PLAN

DDITION Project Manager RYAN T. YSSELDYKE, P.E. Vertical Datum Horz. Datum NAVD '88 LOCAL Drawn by AARON VENEMA Checked by Survey Civil Struc.

L. A. HEI Project Number 25-04-050 COVER

G-100

SHEET



**LOCATION MAP** -NOT TO SCALE-



SCALE 1" = 20'

I, MARK O. SCOVILL, A LICENSED PROFESSIONAL SURVEYOR IN THE STATE OF MICHIGAN, HEREBY CERTIFY THAT I HAVE SURVEYED THE PARCEL(S) OF LAND DESCRIBED AND DELINEATED HEREON; THAT THE SURVEY MAP IS A TRUE REPRESENTATION OF THE SURVEY AS PERFORMED BY ME; THAT SAID SURVEY WAS PERFORMED RESULTING WITH A RELATIVE POSITIONAL PRECISION AT EACH BOUNDARY CORNER SHOWN HEREON WITHIN LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING. THIS SURVEY WAS MADE FROM THE ATTACHED LEGAL DESCRIPTION, THE DESCRIPTION WAS GIVEN TO US BY OTHERS, OR WAS PREPARED BY US FROM INFORMATION OR DOCUMENTS GIVEN TO US BY OTHERS, AND SHOULD BE COMPARED WITH THE ABSTRACT OF TITLE OR TITLE INSURANCE POLICY FOR ACCURACY, EASEMENTS OR EXCEPTIONS.

HOLLAND ENGINEERING, INC. 220 HOOVER BOULEVARD HOLLAND, MICHIGAN 49423 (616) 392-5938

mark o. Deavell MARK O. SCOVILL

MICHIGAN PROFESSIONAL SURVEYOR #4001045504

## LEGAL DESCRIPTION

PARCEL NUMBER: 59-016-096-21

ADDRESS: 60 E WILEY RD

DESCRIBED AS:

PER WARRANTY DEED RECORDED IN LIBER 2878, PAGE 763, ALLEGAN COUNTY PUBLIC RECORDS,

REAL PROPERTY LOCATED IN THE VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN, LEGALLY

PART OF THE SOUTHEAST 1/4 OF SECTION 16, TOWN 3 NORTH, RANGE 16 WEST, VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN DESCRIBED AS BEGINNING AT A POINT ON THE SOUTH LINE OF SECTION 16 DISTANT SOUTH 89° 07' 04" WEST 1279.62 FEET FROM THE SOUTHEAST CORNER OF SECTION 16 AND PROCEEDING THENCE SOUTH 89° 07' 04" WEST 256.86 FEET. ALONG THE SOUTH LINE OF SECTION 16: THENCE NORTH 02° 02' 18" WEST 169.62 FEET; THENCE NORTH 89° 07' 04" EAST 256.86 FEET; THENCE SOUTH 02° 02' 18" EAST 169.62 FEET PARALLEL WITH THE CENTERLINE OF WATER STREET TO THE POINT OF BEGINNING. SUBJECT TO ANY RESTRICTIONS AND LIMITATIONS OF RECORD.

#### **GENERAL NOTES**

TITLE, ZONING OR FREEDOM OF ENCUMBRANCES.

- THIS SURVEY WAS PREPARED FOR THE LANDS AS DESCRIBED WITHOUT THE BENEFIT OF CURRENT TITLEWORK. IT IS NOT A CERTIFICATION OF
- BEARINGS ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF
- SECTION 16, TOWN 3 NORTH, RANGE 16 WEST AS HAVING A BEARING OF
- ELEVATIONS HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).
- SOURCE BENCHMARK MICHIGAN DEPARTMENT OF TRANSPORTATION CONTINUOUSLY OPERATING SYSTEM (CORS) - MIHO (HOLLAND)
- UTILITIES SHOWN HEREON ARE BASED UPON VISIBLE ABOVE GROUND OBSERVATIONS AT THE TIME OF THE FIELD SURVEY. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA. THIS SURVEY SHOULD NOT BE RELIED UPON TO DEPICT THE LOCATION OF ALL UNDERGROUND UTILITIES.
  - NOTE: CONNECTIVITY AS SHOWN HEREON IS BASED UPON BEST AVAILABLE INFORMATION. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF ALL UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED.
- ALL UTILITIES AND BELOW GROUND IMPROVEMENTS, IF ANY, WERE NOT LOCATED UNDER THE SCOPE OF THIS SURVEY.
- PER THE FLOOD INSURANCE RATE MAP CITY OF THE VILLAGE OF DOUGLAS ALLEGAN COUNTY, MICHIGAN MAP NUMBER: 26005C0164G EFFECTIVE DATE: JUNE 21, 2023
- THE SUBJECT PARCEL LIES IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, AND IS IN NOT IN A FLOOD HAZARD AREA
- DATE OF FIELD SURVEY: MAY 15, 2025.

#### **LEGEND**

- SECTION CORNER O SET 1/2 DIA. STEEL BAR W/ CAP #45504
- FOUND 1/2" DIA. STEEL BAR W/ CAP "HEI" → FOUND 1/2" DIA. STEEL BAR W/ CAP #16042
- & DESIGNATED HANDICAP PARKING
- S SANITARY MANHOLE
- STORM CATCH BASIN FLAT
- STORM CATCH BASIN BEE-HIVE
- FIRE HYDRANT WATER VALVE
- ---- SPRINKLER VALVE MONITORING WELL
- ELECTRIC METER
- ELECTRIC PANEL \*\* YARD LAMP
- GAS METER ABOVE GROUND UTILITY MARKER W/ TEST LEADS
- UTILITY POLE
- → TELEPHONE RISER AIR CONDITIONER
- FLAG POLE
- BOLLARD
- ← SHRUB LARGE ROCK
- DECIDUOUS TREE

★ CONIFEROUS TREE - ROAD RIGHT-OF-WAY LINE

------ UNDERGROUND SANITARY LINE ----- UNDERGROUND STORM LINE OVERHEAD UTILITY LINE - WOOD FENCE LINE · · LANDSCAPING LINE \_\_ 611 ---NINOR CONTOUR ` MAJOR CONTOUR CONCRETE SURFACE

ASPHALT SURFACE GRAVEL SURFACE

(D) - DESCRIBED DIMENSION (M) - MEASURED DIMENSION

HYDRANT UNDER "W" ELEVATION = 631.29' (NAVD '88)

INV. - INVERT N 89°07'04" E 256.86' (D&M) ELEV. - ELEVATION PVC - POLY VINYL CHLORIDE REMON. - REMONUMENTATION L.C.R.C. - LAND CORNER RECORDATION CERTIFICATE OF PARCEL LINE 1.4' TO GARAGE CORNER CONCRETE CORNER 2.9' EAST ELEVATION = 631.36' -ELEVATION = 631.34' #100 METAL FRAME BUILDING FINISHED FLOOR - FINISHED FLOOR ELEVATION = 631.36' RESIDENCE STORM CB#1543
 RIM ELEV. = 628.48'
 SSE 8" PVC INV. ELEV. = 626.99' ELEVATION = 631.30' #486 CONCRETE BLOCK PARCEL NUMBER: 59-016-096-10 ADDRESS: 52 E WILEY RD PARCEL NUMBER: 59-016-101-10 ADDRESS: 486 S WATER ST. CONCRETE CORNER 3.0' EAS OF PARCEL LINE BASKETBALL HOOP PROPANE TANK ON CONCRETE PAD **PARCEL** AREA = 1.000 ACRES PARCEL NUMBER: 59-016-101-00 ADDRESS: 100 E WILEY RD SANITARY MH#1803 BEE-HIVE STORM CB#1806 W 12" PVC INV. ELEV. = 627.25' SOUTHEAST CORNER, SECTION 16 — TOWN 3 NORTH, RANGE 16 WEST VILLAGE OF THE CITY OF DOUGLAS ALLEGAN COUNTY, MICHIGAN SOUTH 1/4 CORNER, SECTION 16 REMON. L.C.R.C. LIBER 13, PAGES 435-436 TOWN 3 NORTH, RANGE 16 WEST SANITARY MH#1954 VILLAGE OF THE CITY OF DOUGLAS ALLEGAN COUNTY, MICHIGAN WILEY ROAD RIM ELEV. = 630.19' 630 — 1279.62' (D&M) E 12" INV. ELEV. = 616.64' (66' WIDE PUBLIC RIGHT-OF-WAY) 256.86' (D&M) REMON. L.C.R.C. LIBER 13, PAGES 429-430 S 12" INV. ELEV. = 616.64' SANITARY MH#1670
RIM ELEV. = 631.16'
E 12" PVC INV. ELEV. = 615.93'
W 12" PVC INV. ELEV. = 615.93' STORM CB#1514 RIM ELEV. = 629.93' S 89°07'04" W 2611.77' (M) BEE-HIVE STORM CB#1921 BEE-HIVE STORM CB#1959 -NNW 8" PVC INV. ELEV. = 626.74' W 12" PVC INV. ELEV. = 623.19' SOUTH LINE, SOUTHEAST 1/4, SECTION 16 W 12" PVC INV. ELEV. = 626.17' E 12" PVC INV. ELEV. = 623.14' E 12" PVC INV. ELEV. = 622.55' E 12" PVC INV. ELEV. = 626.23' SITE BENCHMARK NORTH-NORTHWEST FLANGE BOLT ON

O

MIDWE

S Ш 16 ZE

R16' AS, 2

Project Manager LOCAL

RYAN T. YSSELDYKE Vertical Datum Horz. Datum NAVD '88 Drawn by JOHN M. RANKIN Checked by

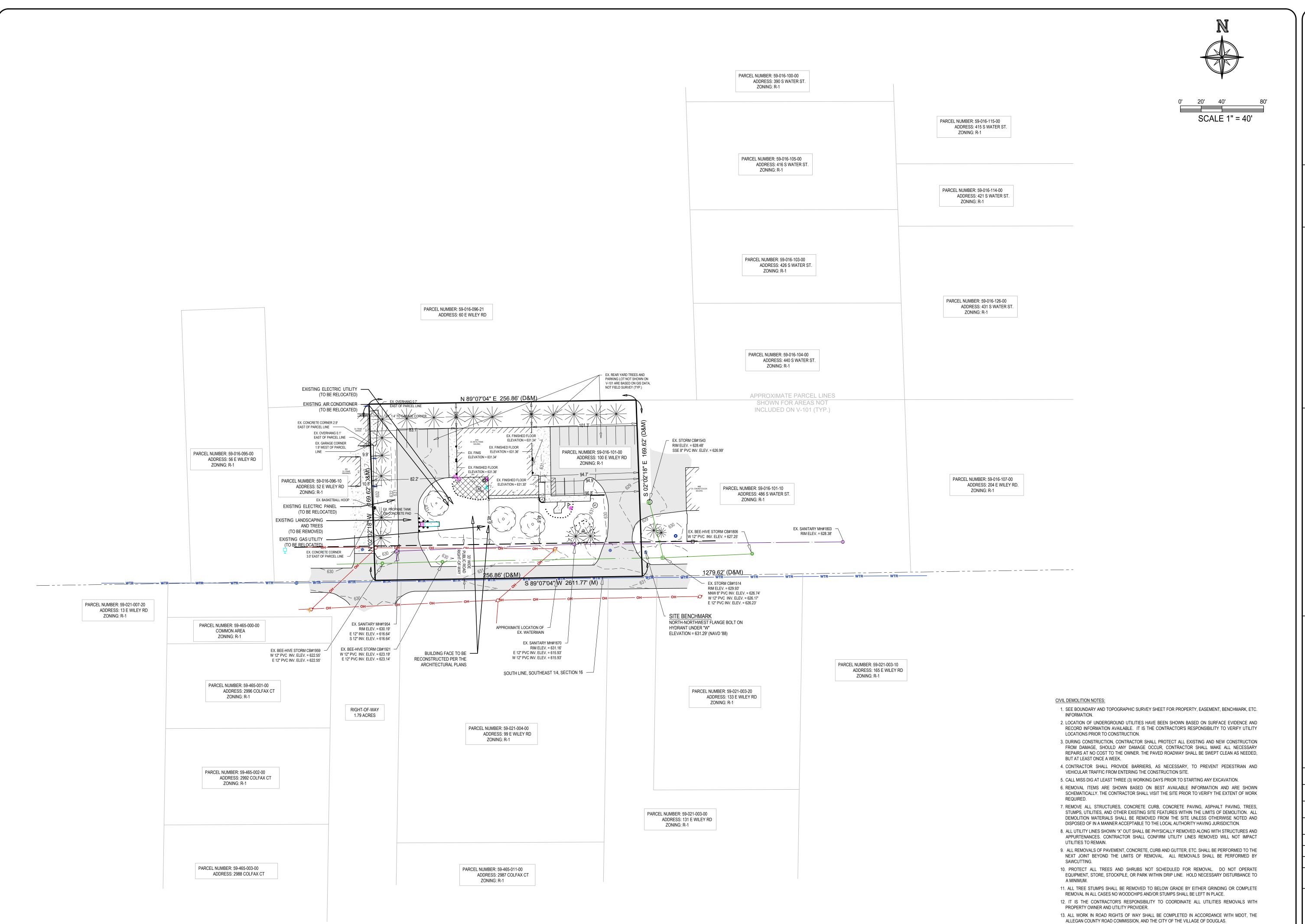
Survey JCD 06/03/2025 Civil Struc. L. A.

25-04-050 **EXISTING** 

HEI Project Number

**CONDITIONS** 

V-101



DDITION T3N, R16W OUGLAS, 70 6 70 70 AGE /4 SEC CITY CITY MI

Project Manager LOCAL

RYAN T. YSSELDYKE, P.E. Vertical Datum Horz. Datum NAVD '88

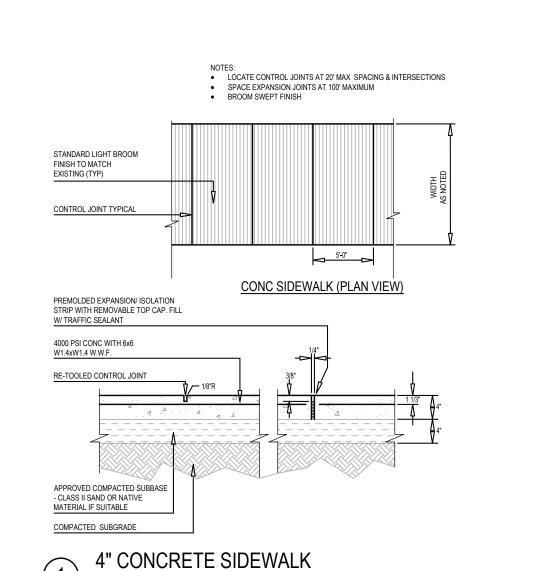
Drawn by AARON VENEMA Checked by Survey

Civil Struc. L. A.

HEI Project Number 25-04-050

CIVIL **DEMOLITION** 

14. SEE OTHER SHEETS IN PLAN SET FOR MORE INFORMATION.



1.9' WEST OF PARCEL

10.8'

EX. BASKETBALL HOOP —

EX. BEE-HIVE STORM CB#1959 -

W 12" PVC INV. ELEV. = 622.55' E 12" PVC INV. ELEV. = 622.55'

7' SIDE YARD

SETBACK

— WTR — WTR

VERIFY EXISTING WALL CONDITIONS AND COORDINATE NEW ADDITION PER

PROP. 5' WIDE -CONC. WALKWAY

> - EX. SANITARY MH#1954 RIM ELEV. = 630.19'

E 12" INV. ELEV. = 616.64'

S 12" INV. ELEV. = 616.64'

EX. BEE-HIVE STORM CB#1921 W 12" PVC INV. ELEV. = 623.19'

E 12" PVC INV. ELEV. = 623.14'

SEE DET 1 THIS SHT

EX. PROPANE TANK ON CONCRETE PAD

3.0' EAST OF PARCEL LINE

ARCHITECTURAL PLANS

NOTE:

7' SIDE YARD

SETBACK

EX. STORM CB#1543

SSE 8" PVC INV. ELEV. = 626.99'

/ EX. CONCRETE BLOCK

EX. STORM CB#1514

RIM ELEV. = 629.93'

SITE BENCHMARK

HYDRANT UNDER "W"

ELEVATION = 631.29' (NAVD '88)

NORTH-NORTHWEST FLANGE BOLT ON

NNW 8" PVC INV. ELEV. = 626.74'

W 12" PVC INV. ELEV. = 626.17'

E 12" PVC INV. ELEV. = 626.23'

EX. BEE-HIVE STORM CB#1806

W 12" PVC INV. ELEV. = 627.25'

1279.62' (D&M)

EX. REAR YARD TREES AND PARKING LOT NOT SHOWN ON V-101 ARE BASED ON GIS DATA, NOT FIELD SURVEY (TYP.)

EX. SANITARY MH#1670

E 12" PVC INV. ELEV. = 615.93'

RIM ELEV. = 631.16'

S 89°07'04" W 2611.77' (M)

— SOUTH LINE, SOUTHEAST 1/4, SECTION 16

APPROXIMATE LOCATION OF

EX. WATERMAIN

N 89°07'04" E 256.86' (D&M)

EX. FINISHED FLOOR ELEVATION = 631.36'

256.86' (D&M)

EX. FINISHED FLOOR 6
ELEVATION = 631.30'

EX. METAL FRAME

ELEVATION = 631.34'

ELEVATION = 631.36'

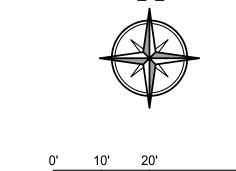
BUILDING ADDITION '

F.F.E. = 631.36

PROP. BASIN

535 SQ FT

THE INTERURBAN TRANSIT AUTHORITY IS OPERATED BY THE CITY OF THE VILLAGE OF DOUGLAS, THE CITY OF SAUGATUCK AND SAUGATUCK TOWNSHIP. INTERURBAN PROVIDES PUBLIC TRANSPORTATION SERVICES WITHIN THE PREVIOUSLY LISTED JURISDICTIONS, AND THE PROPOSED BUILDING ADDITION CONFORMS TO THE SPECIAL LAND USES FOR R-1 ZONING, AS THE BUILDING IS ASSOCIATED WITH PUBLIC FACILITIES.



SCALE 1" = 20'

LAYOUT & UTILITY NOTES:

- 1. SITE DESIGN WAS DEVELOPED IN ACCORDANCE WITH THE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT AND SOIL BORINGS COMPLETED FOR THE PROJECT. CONTRACTOR SHALL ACQUIRE A COPY OF THE GEOTECHNICAL REPORT AND SOIL BORING INFORMATION. SOIL CONDITIONS MAY VARY FROM THE GEOTECHNICAL INFORMATION, WHICH MAY AFFECT THE SITE DESIGN, EARTHWORK QUANTITIES, USABLE SOILS, AND SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER AND GEOTECHNICAL ENGINEER IF SITE CONDITIONS VARY FROM SOILS INFORMATION CONTAINED IN THE GEOTECHNICAL
- APPROVALS HAVE BEEN ACQUIRED PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL CONTACT ENGINEER IF ANY DISCREPANCIES ARE DETERMINED BETWEEN SITE
- LAYOUT DIMENSIONS AND ACTUAL SITE CONDITIONS.
- 5. COORDINATE ALL UTILITY CONSTRUCTION WITH UTILITY PROVIDER, AS REQUIRED.
- 7. ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE KALAMAZOO LAKE SEWER AND WATER AUTHORITY STANDARDS & SPECIFICATIONS. 8. ALL WATERMAIN, WATER SERVICES, AND FIRE PROTECTION LINES SHALL BE INSTALLED IN
- 9. ALL WORK WITHIN THE PUBLIC ROAD RIGHT-OF-WAY WILL REQUIRE A PERMIT AND OR APPROVAL
- 10. COORDINATE ALL SIGNAGE REMOVAL AND RELOCATION WITHIN THE RIGHT-OF-WAY WITH ALLEGAN COUNTY ROAD COMMISSION.
- 11. SITE CONTRACTOR RESPONSIBLE TO CONNECT EXISTING AND PROPOSED BUILDING TO WATER SERVICE AND SANITARY SEWER LATERAL, REFER TO PLUMBING PLANS FOR CONNECTION LOCATION
- 12. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS. BUILDING SHALL BE STAKED BASED ON FOUNDATION PLAN. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE
- 13. ONSITE LIGHTING SHALL DIRECTED DOWNWARD AND AWAY FROM ADJACENT PROPERTIES AS
- 14. SITE SIGNAGE SHALL MEET THE STANDARDS AND REQUIREMENTS OF THE CITY OF THE VILLAGE
- OF DOUGLAS ZONING ORDINANCE. A SIGN PERMIT SHALL BE ACQUIRED PRIOR TO CONSTRUCTION. 15. CONTRACTOR SHALL BE RESPONSIBLE TO MEETING THE STANDARDS AND REQUIREMENTS OF
- 16. SEE OTHER SHEETS IN PLAN SET FOR MORE INFORMATION.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL NECESSARY PERMITS AND

3. CALL MISS DIG AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING ANY EXCAVATION.

6. CONTRACTOR SHALL VERIFY THAT THERE ARE NO UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

ACCORDANCE WITH THE CURRENT EDITION OF THE KALAMAZOO LAKE SEWER AND WATER AUTHORITY STANDARDS & SPECIFICATIONS.

FROM THE ALLEGAN COUNTY ROAD COMMISSION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THEIR STANDARDS & SPECIFICATIONS.

DISCREPANCIES BETWEEN THE BUILDING AND SITE DRAWINGS.

REQUIRED PER THE CITY OF THE VILLAGE OF DOUGLAS ZONING ORDINANCE.

THE LOCAL NOISE ORDINANCE FOR ALL CONSTRUCTION PRACTICES.

DDITION T3N, R16W OUGLAS, 70 6 70 70

Project Manager RYAN T. YSSELDYKE, P.E. Vertical Datum Horz. Datum NAVD '88 LOCAL Drawn by AARON VENEMA Checked by Survey

Civil Struc. L. A. HEI Project Number

25-04-050

LAYOUT PLAN

# S.E.S.C. LEGEND MICHIGAN UNIFIED KEYING SYSTEM

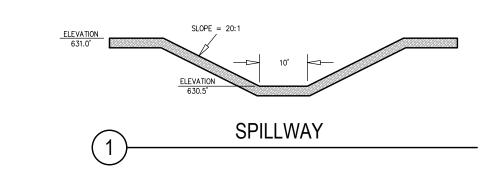
S51	SILT FENCE	WATE	Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

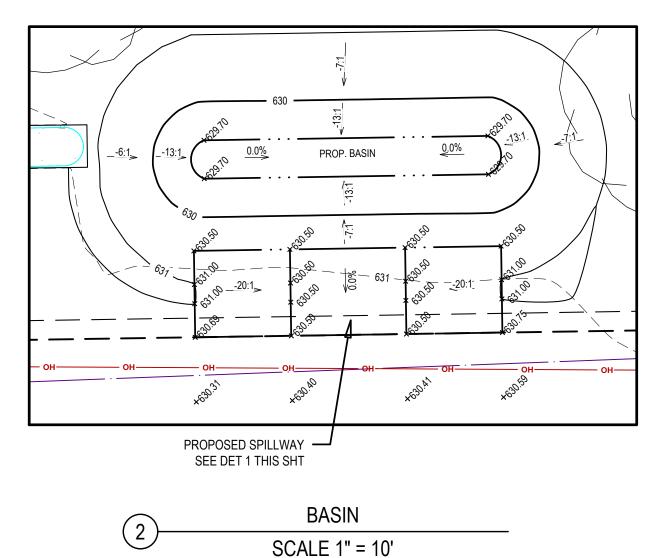
#### **DISTURBANCE AREA: 0.08 ACRES**

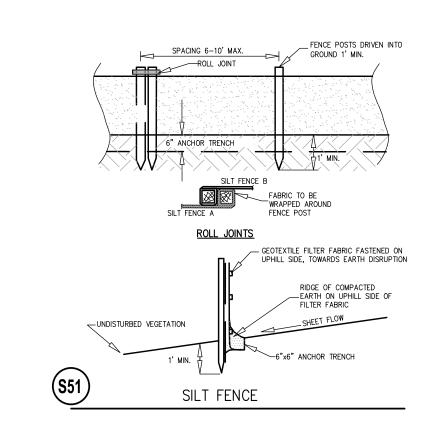
### PROPOSED CONSTRUCTION SCHEDULE

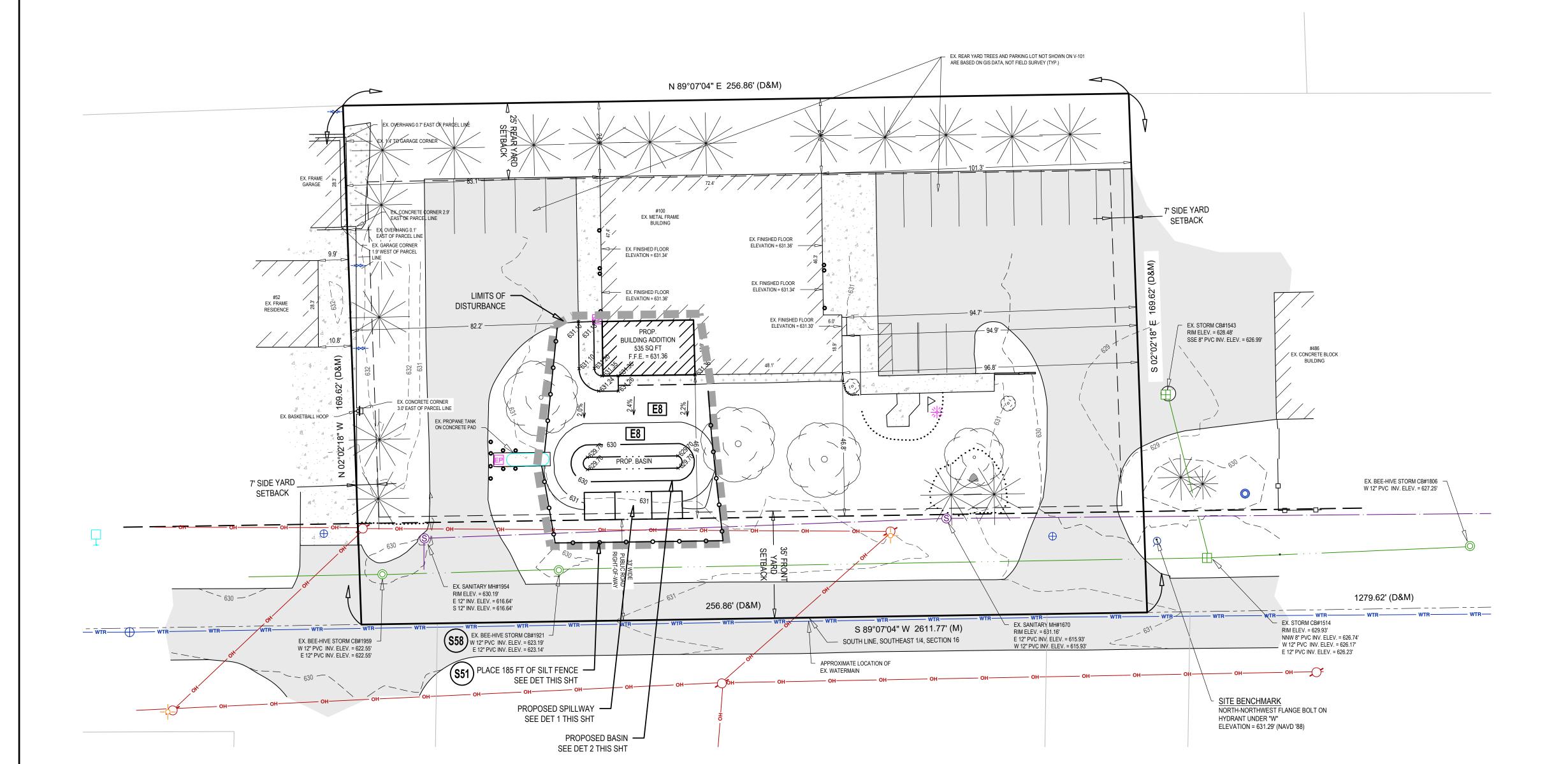
ACTIVITY		2025															2026				
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\*NOTE: CONSTRUCTION SCHEDULE MAY VARY BASED ON CONTRACTOR'S SCHEDULE. CONTRACTOR SHALL UPDATE THE OCWRC IF CONSTRUCTION SCHEDULE VARIES FROM ABOVE.











SCALE 1" = 20'

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN ACQUIRED PRIOR TO CONSTRUCTION.
- 2. SITE DESIGN WAS DEVELOPED IN ACCORDANCE WITH THE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT AND SOIL BORINGS COMPLETED FOR THE PROJECT. CONTRACTOR SHALL ACQUIRE A COPY OF THE GEOTECHNICAL REPORT AND SOIL BORING INFORMATION. SOIL CONDITIONS MAY VARY FROM THE GEOTECHNICAL INFORMATION, WHICH MAY AFFECT THE SITE DESIGN, EARTHWORK QUANTITIES, USABLE SOILS, AND SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES. CONTRACTOR
- SHALL NOTIFY DESIGN ENGINEER AND GEOTECHNICAL ENGINEER IF SITE CONDITIONS VARY FROM SOILS INFORMATION CONTAINED IN THE GEOTECHNICAL INFORMATION. 3. CALL MISS DIG AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING ANY
- 4. CONTRACTOR SHALL VERIFY THAT THERE ARE NO UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- 5. ALL WORK WITHIN THE RIGHT-OF-WAY WILL REQUIRE A PERMIT AND OR APPROVAL FROM ALLEGAN COUNTY ROAD COMISSION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THEIR STANDARDS & SPECIFICATIONS.
- 6. STORM WATER MANAGEMENT SYSTEM AND GRADING SHALL BE IN ACCORDANCE WITH THE ALLEGAN COUNTY DRAIN COMMISSION STORM WATER ORDINANCE. 7. SITE CONTRACTOR RESPONSIBLE TO CONNECT STORM / ROOF WATER TO STORM DRAIN
- AS SHOWN. REFER TO PLUMBING PLANS FOR CONNECTION TO THE BUILDING AND 8. SITE SHALL BE GRADED WITH SMOOTH CONTOURS IN ALL AREAS OF DISTURBANCE AND
- GRADED TO SLOPE AWAY FROM THE EXISTING AND PROPOSED BUILDINGS AND
- 9. ALL STORM SEWER PIPING SHALL BE ADS N-12, HANCOR HI-Q OR APPROVED EQUIVALENT POLYETHYLENE (PE) PLASTIC PIPE AND FITTINGS, UNLESS OTHERWISE NOTED. WHERE SPECIFIED IN THE PLANS, CONCRETE CLASS IV PIPE WITH RUBBER GASKETS IS
- 10. SEE OTHER SHEETS IN PLAN SET FOR MORE INFORMATION.

#### STORM WATER INFILTRATION BASIN NOTES:

- 1. CONTRACTOR SHALL OBTAIN ALL NECESSARY FEDERAL, STATE AND LOCAL PERMITS AS NECESSARY FOR CONSTRUCTION.
- 2. CALL MISS DIG AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING ANY
- 3. THIS PROJECT RELIES ON THE INFILTRATION OF RUNOFF TO PROVIDE STORMWATER MANAGEMENT FOR THE SITE IMPROVEMENTS. THEREFORE, ALL APPROPRIATE
- THE INFILTRATION BASIN AND/OR INFILTRATION TRENCHES. 4. CONTRACTOR SHALL CONSTRUCT SIDE SLOPES OF THE STORM WATER INFILTRATION BASIN UTILIZING A BOBCAT OR SMALL MECHANIZED EQUIPMENT IN AN EFFORT TO MAINTAIN THE INFILTRATION PROPERTIES OF THE SIDE SLOPES.
- 5. IF THE WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY TO VERIFY THAT THE WATER TABLE ELEVATION UTILIZED IN THE DESIGN MATCHES THE WATER TABLE ELEVATION WITNESSED

MEASURES SHALL BE TAKEN TO MINIMIZE COMPACTION OF ONSITE SOILS IN THE AREA OF

- ONSITE DURING CONSTRUCTION. 6. ONSITE SOILS WITHIN THE LIMITS OF THE INFILTRATION BASIN WERE DETERMINED TO BE TEKENINK LOAMY FINE SAND BASED ON USDA SOIL SURVEY DATA. SHOULD CONTRACTOR ENCOUNTER OTHER SOILS WITHIN THE LIMITS OF THE STORM WATER
- INFILTRATION BASIN AND/OR INFILTRATION TRENCHES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT DESIGN CHANGES CAN BE MADE AS NECESSARY. 7. STORM WATER MANAGEMENT BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ALLEGAN COUNTY DRAIN COMMISSION MOST CURRENT STANDARDS AND
- REQUIREMENTS. 8. EXISTING ONSITE INFILTRATIVE SOILS SHALL BE LEFT IN PLACE WITHIN THE INFILTRATION
- 9. NO FILL OR ORGANIC MATERIAL SHALL BE PLACED WITHIN THE INFILTRATION BASIN, WITH
- THE EXCEPTION OF THE TOPSOIL AND SEED. 10. FOLLOWING CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL REMOVE ANY SILT OR SEDIMENT THAT HAS ACCUMULATED IN THE STORM WATER INFILTRATION BASIN
- PRIOR TO FINAL RESTORATION. 11. THE STORM WATER MANAGEMENT BASIN WAS DESIGNED TO PROVIDE CAPACITY FOR 241 CUBIC FEET OF STORAGE. CONTRACTOR SHALL CONSTRUCT BASIN PER THE DESIGN
- DRAWINGS TO ACHIEVE THIS STORAGE VOLUME. 12. STORM SEWER AND STORMWATER BASIN AS-BUILTS AND CERTIFICATION, IS REQUIRED BY ALLEGAN COUNTY DRAIN COMISSION. CONTRACTOR SHALL NOTIFY ENGINEER WHEN CONSTRUCTION IS COMPLETED, PRIOR TO FINAL RESTORATION, TO PERFORM THE
- AS-BUILT SURVEY. CONTRACTOR IS RESPONSIBLE TO CORRECT ANY DEFICIENCIES' NOTED DURING AS-BUILT SURVEY 13. AFTER FINAL RESTORATION AND PROJECT COMPLETION, PROPERTY OWNER SHALL COMPLETE MAINTENANCE AND CLEANING PER THE SIGNED MAINTENANCE AGREEMENT.

14. SEE OTHER SHEETS IN PLAN SET FOR MORE INFORMATION.

## SESC NOTES:

- 1. CONTRACTOR SHALL OBTAIN ALL FEDERAL, STATE AND LOCAL PERMITS AS NECESSARY FOR CONSTRUCTION.
- 2. SITE DESIGN WAS DEVELOPED IN ACCORDANCE WITH THE INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT AND SOIL BORINGS COMPLETED FOR THE PROJECT. CONTRACTOR SHALL ACQUIRE A COPY OF THE GEOTECHNICAL REPORT AND SOIL BORING INFORMATION. SOIL CONDITIONS MAY VARY FROM THE GEOTECHNICAL INFORMATION, WHICH MAY AFFECT THE SITE DESIGN, EARTHWORK QUANTITIES, USABLE SOILS, AND SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER AND GEOTECHNICAL ENGINEER IF SITE CONDITIONS VARY FROM SOILS INFORMATION CONTAINED IN THE GEOTECHNICAL INFORMATION.
- 3. CONTRACTOR IS RESPONSIBLE TO ACQUIRE THE ALLEGAN COUNTY HEALTH DEPARTMENT SOIL EROSION AND SEDIMENTATION CONTROL PERMIT AND THE NPDES NOTICE OF COVERAGE AND COMPLY WITH ALL PERMIT REQUIREMENTS AND WITH ALL STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION.
- 4. BEST MANAGEMENT PRACTICES SHALL BE UTILIZED DURING AND AFTER CONSTRUCTION FOR TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL
- 5. CONTRACTOR SHALL PROVIDE A CERTIFIED STORM WATER OPERATOR FROM CONSTRUCTION COMMENCEMENT THROUGH FINAL SITE STABILIZATION. 6. THE TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE INSPECTED AND
- MAINTAINED WEEKLY AND AFTER EACH SIGNIFICANT RAIN EVENT IN ACCORDANCE WITH THE EGLE REQUIREMENTS. 7. CALL MISS DIG AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING ANY
- EXCAVATION. 8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF THE VILLAGE OF DOUGLAS AND THE ALLEGAN COUNTY ROAD COMMISSION STANDARDS AND SPECIFICATIONS.
- 9. SOIL EROSION CONTROL MEASURES SHALL BE PLACED PRIOR TO EARTH MOVING OR GROUND DISTURBANCE AND REMAIN IN PLACE UNTIL FINAL RESTORATION HAS BEEN ESTABLISHED. 10. THE STORM WATER MANAGEMENT BASIN SHALL BE CONSTRUCTED FIRST.
- CONTRACTOR IS RESPONSIBLE TO REMOVE SEDIMENT FROM BOTTOM OF DETENTION BASIN UNTIL THE SITE IS FULLY STABILIZED. 11. ALL FOREIGN MATERIAL OR DEBRIS FROM JOB SITE WHICH IS DEPOSITED ON PAVED
- ROADWAY SHALL BE REMOVED IMMEDIATELY. 12. THE PAVED ROADWAY SHALL BE SWEPT CLEAN AS NEEDED, BUT AT LEAST ONCE A
- 13. SOIL EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION AND THE OWNER UPON COMPLETION. 14. CONTRACTOR SHALL PHASE THE PLACEMENT OF THE SOIL EROSION CONTROL
- THE ACQUIRED SOIL EROSION CONTROL PERMIT 15. STOCKPILE AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEED IN ACCORDANCE WITH THE ALLEGAN COUNTY HEALTH DEPARTMENT SOIL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS. ALL EXCESS SPOILS SHALL BE REMOVED

MEASURES AS NECESSARY FOR THE SITE IMPROVEMENTS WITHIN THE LIMITATIONS OF

- 16. ALL EXCESS SPOILS SHALL BE HAULED OFFSITE AND LEGALLY PLACED IN AN UPLAND AREA NOT ENCUMBERED BY WETLANDS OR FLOODPLAIN. 17. THERE SHALL BE NO EARTH MOVEMENT OR DISTURBANCE OUTSIDE THE LIMITS OF DISTURBANCE WITHOUT PRIOR AUTHORIZATION FROM THE ALLEGAN COUNTY HEALTH
- 18. THE MINIMUM AMOUNT OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE SHOWN THE DRAWINGS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES, MAINTENANCE, AND/OR STABILIZATION MEASURES AS NECESSARY FOR CONSTRUCTION ACTIVITIES.
- 19. SEE OTHER SHEETS IN PLAN SET FOR MORE INFORMATION.

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Project Manager RYAN T. YSSELDYKE, P.E LOCAL

Vertical Datum Horz. Datum NAVD '88

Drawn by AARON VENEMA Checked by Survey Civil

Struc. L. A. HEI Project Number

25-04-050 GRADING **DRAINAGE &**