SITE PLAN
for
7878 M-36 REMODEL & WAREHOUSE BUILDING
HAMBURG TOWNSHIP
LIVINGSTON COUNTY, MICHIGAN

LEGEND

○FCI	FOUND CAPPED IRON
○MON	FOUND CONCRETE MONUMENT
(M)	MEASURED
(R)	RECORD
	EX. OVERHEAD LINES
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. ELECTRIC TRANSFORMER
	EX. BOLLARD
	EX. ELECTRIC METER
	EX. ELECTRIC PANEL
	EX. GAS METER
	EX. IRRIGATION CONTROL BOX
	EX. CATCH BASIN
	EX. SANITARY MANHOLE
	EX. WATER WELL
	EX. MAILBOX
	EX. DECIDUOUS TREE
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. GAS MAIN
	PRO. FENCE
	PRO. BOLLARD
	PRO. PARKING SPACES COUNT
	PRO. BARRIER-FREE SIGN

HATCH LEGEND

PROPOSED CONCRETE

PROPOSED ASPHALT PAVEMENT

SITE DATA:

SITE AREA:	PARCEL NO. 4715-25-200-003, 1.05 ACRES
ZONING:	VC, VILLAGE CENTER
EXISTING BUILDING USE:	RESIDENTIAL
PROPOSED USE:	EXISTING BUILDING (REMODEL): SHOWROOM & OFFICE SPACE PROPOSED BUILDING: WAREHOUSE
REQUIRED BUILDING SETBACKS:	FRONT: 20 FEET REAR: 15 FEET SIDES: 10 FEET
EXISTING BUILDING (REMODEL):	OFFICE: 961 S.F. (GROSS) SHOWROOM AREA: 1,391 S.F. (FLOOR AREA)
PROPOSED WAREHOUSE:	5,000 S.F. (FLOOR AREA)
REQUIRED PARKING SPACES:	OFFICE: 1 SPACE PER 400 S.F OF GROSS FLOOR AREA SHOWROOM AREA: 1 SPACE PER 400 S.F. OF FLOOR AREA WAREHOUSE: 1 SPACE PER 800 S.F. OF FLOOR AREA 11 REGULAR SPACES 1 HANDICAP SPACES 12 TOTAL SPACES
PROPOSED PARKING SPACES:	13 REGULAR SPACES 1 HANDICAP SPACES 14 TOTAL SPACES (2 EXTRA SPACES PROVIDED, RESULTS IN NO NEED FOR COLLECTIVE PARKING)
REQUIRED LOADING ZONE:	ONE 12'x25' SPACE TO BE PROVIDED

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH HAMBURG TOWNSHIP AND/OR LIVINGSTON COUNTY CURRENT STANDARDS AND REGULATIONS.
3. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. ANY WORK WITHIN THE STREET RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.
6. CONTRACTOR TO PROVIDE ALL REQUIRED TRAFFIC CONTROL DEVICES AND PERSONNEL TO MAINTAIN A SAFE WORK ENVIRONMENT.
7. STATE REQUIREMENTS FOR BARRIER-FREE PARKING SPACES SHALL SUPERSEDE ANY TOWNSHIP REQUIREMENTS.
8. NO OUTDOOR STORAGE IS PROPOSED WITH THIS SITE PLAN.

BENCHMARKS:

BM1
ARROW ON HYDRANT, 33'± NORTH OF CENTERLINE OF E. M-36, IN FRONT OF 7879 E. M-36.
ELEVATION: 931.10 N.A.V.D.88

LEGAL DESCRIPTION (BY OTHERS):

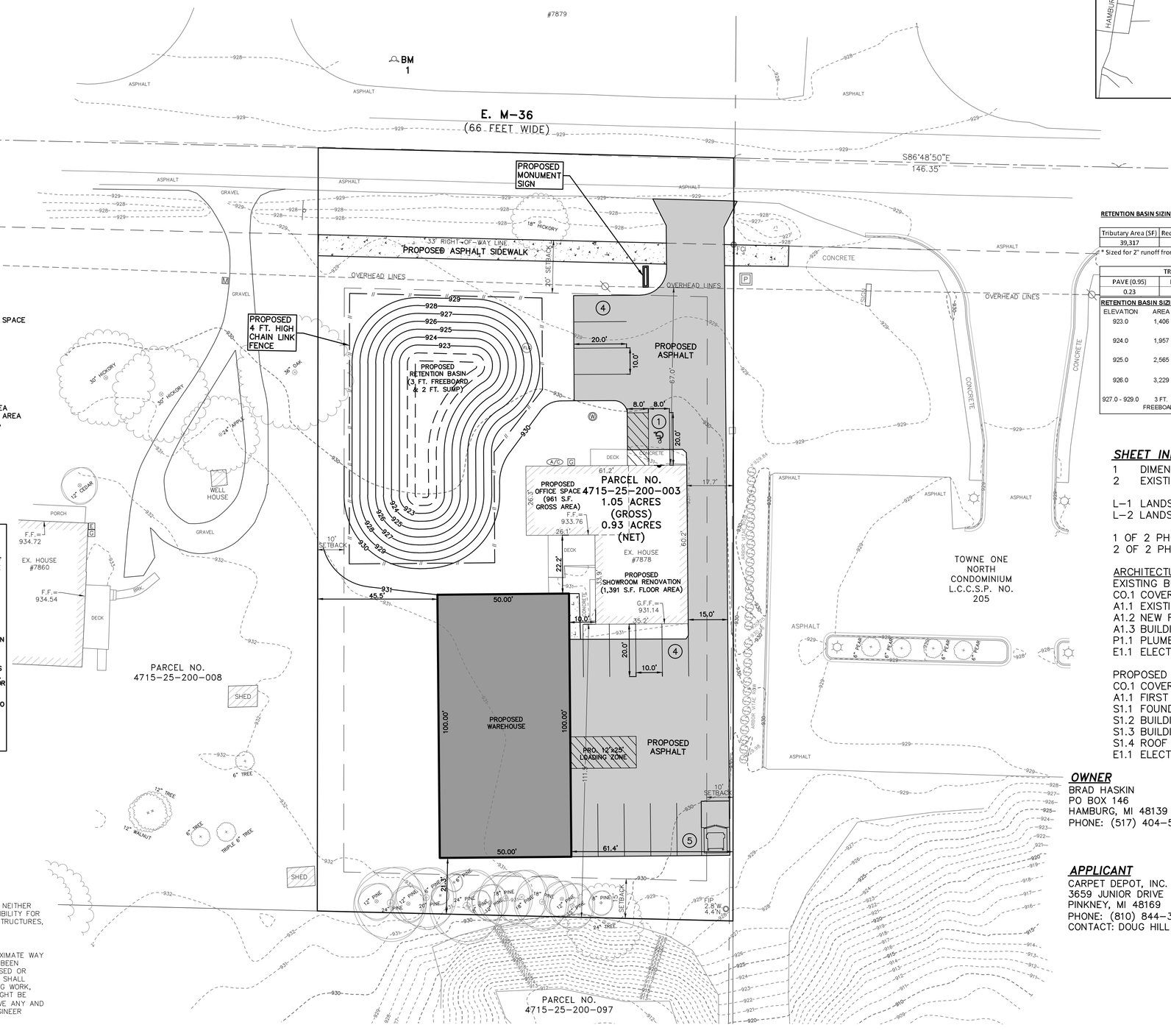
PART OF THE NORTHEAST 1/4 OF SECTION 25, T.1N., R.5E., HAMBURG TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING 444 FEET NORTH, AND 512 FEET EAST OF SOUTHWEST CORNER OF THE WEST 1/2 OF THE EAST 1/2 OF THE NORTHEAST 1/4; THENCE NORTH 290 FEET; THENCE S88°E 158 FEET ALONG CENTERLINE OF HIGHWAY; THENCE SOUTH 289 FEET; THENCE WEST 158 FEET TO THE POINT OF BEGINNING.

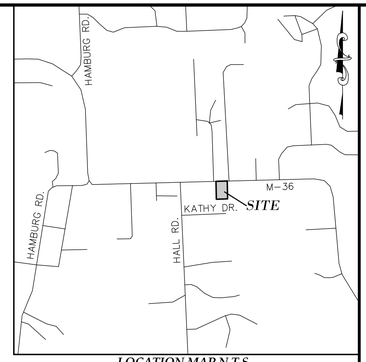
NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOTE:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.





LOCATION MAP N.T.S.

RETENTION BASIN SIZING REQUIREMENTS

Tributary Area (SF)	Req Storage (CF)
39,317	6,566

* Sized for 2" runoff from entire tributary area

TRIBUTARY AREA (AC)					C
PAVE (0.95)	ROOF (0.9)	LAWN (0.25)	TOTAL (AC)	TOTAL (SF)	0.56
0.23	0.18	0.49	0.90	39,317	

RETENTION BASIN SIZING

ELEVATION	AREA	AVG. AREA	HEIGHT	VOLUME	CUM. VOLUME
923.0	1,406				
		1,682	1.0	1,682	1,682
924.0	1,957				
		2,261	1.0	2,261	3,943
925.0	2,565				
		2,897	1.0	2,897	6,840
926.0	3,229				
927.0 - 929.0	3 FT. FREEBOARD				

SHEET INDEX

OWNER
BRAD HASKIN
PO BOX 146
HAMBURG, MI 48139
PHONE: (517) 404-5977

CIVIL ENGINEER
GREENTECH ENGINEERING, INC.
51147 PONTIAC TRAIL
WIXOM, MI 48393
PHONE: (248) 668-0700
FAX: (248) 668-0701
CONTACT: DANIEL LECLAIR
CHAD HOLDWICK

APPLICANT
CARPET DEPOT, INC.
3659 JUNIOR DRIVE
PINKNEY, MI 48169
PHONE: (810) 844-3306
CONTACT: DOUG HILL

ARCHITECT
LIZ HARROW, ARCHITECT
1147 DAISY LANE
EAST LANSING, MI 48823
PHONE: (517) 803-8874
CONTACT: MATT MORGAN

STATE OF MICHIGAN — DANIEL J LECLAIR — ENGINEER — NO. 47017 — REGISTERED PROFESSIONAL ENGINEER

GREENTECH ENGINEERING, INC.
CIVIL ENGINEERS & LAND SURVEYORS
51147 Pontiac Trail, Wixom, MI 48393
Phone: (248) 668-0700 Fax: (248) 668-0701

RESIDENTIAL: Subdivisions, Site Condominium, Multi-Family, Plot Plans
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SURVEYING: ALTA Surveys, Boundary Surveys, Topographic Surveys, Mortgage Surveys, Construction Staking

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CLIENT: CARPET DEPOT, INC.

DIMENSION AND LAYOUT PLAN

7878 M-36 - PARCEL NO. 4715-25-200-003
SECTION: 25 TOWNSHIP: 1 N. RANGE: 5 E.
HAMBURG TOWNSHIP LIVINGSTON COUNTY MICHIGAN

REVISED

DATE: 9-16-2022
DRAWN BY: CEH
CHECKED BY: JPP\DJL
0 10 20
FBK: --
CHF: RG
SCALE HOR 1"= 20 FT.
VER 1"= -- FT.

1
22-169

LEGEND

FCI	FOUND CAPPED IRON
FIP	FOUND IRON PIPE
(M)	MEASURED
(R)	RECORD
	EX. UTILITY POLE
	EX. LIGHTPOLE
FLG	EX. FLAG POLE
	EX. OVERHEAD LINES
	EX. FENCE
	EX. GUY WIRE/ANCHOR
	EX. HYDRANT
W	EX. WELL
	EX. CATCH BASIN
	EX. SIGN
P	EX. UTILITY PEDESTAL
A/C	EX. AIR CONDITIONER
E	EX. ELECTRIC METER
G	EX. GAS METER
M	EX. MAILBOX
S	EX. SANITARY MANHOLE
C/O	EX. CLEANOUT
	EX. DECIDUOUS TREE
	EX. CONIFEROUS TREE
	REMOVE EX. TREE

ZONING:

VC – VILLAGE CENTER

SETBACKS:

FRONT: 20 FEET
SIDE: 10 FEET
REAR: 15 FEET

BENCHMARKS:

BM1
ARROW ON HYDRANT, 33'± NORTH OF CENTERLINE OF E. M–36, IN FRONT OF 7879 E. M–36.
ELEVATION: 931.10 N.A.V.D.88

SURVEY NOTES:

1. TITLE WORK WAS NOT PROVIDED. EXISTING EASEMENTS, IF ANY, HAVE NOT BEEN SHOWN.

2. A WETLAND AND TREE SURVEY WERE NOT PERFORMED AS PART OF THIS SURVEY.

LEGAL DESCRIPTION (BY OTHERS):

PART OF THE NORTHEAST 1/4 OF SECTION 25, T.1N., R.5E., HAMBURG TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING 444 FEET NORTH, AND 512 FEET EAST OF SOUTHWEST CORNER OF THE WEST 1/2 OF THE EAST 1/2 OF THE NORTHEAST 1/4; THENCE NORTH 290 FEET; THENCE S88°E 158 FEET ALONG CENTERLINE OF HIGHWAY; THENCE SOUTH 289 FEET; THENCE WEST 158 FEET TO THE POINT OF BEGINNING.

FLOOD HAZARD STATEMENT:

THIS PROPERTY IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" FLOOD HAZARD AREA AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FOR MICHIGAN FLOOD INSURANCE RATE MAP (FIRM) #26163C0020E (COMMUNITY ID NO. 260118 – TOWNSHIP OF HAMBURG, MI) WITH AN EFFECTIVE DATE OF SEPTEMBER 17, 2008. THIS STATEMENT IS BASED ON THE RESULTS OF GRAPHIC PLOTTING ONTO THE ABOVE NAMED MAP AND PANEL, WHICH IS THE CURRENT MAP FOR THE COMMUNITY IN WHICH THE PROPERTY IS LOCATED. ZONE "X" INDICATES AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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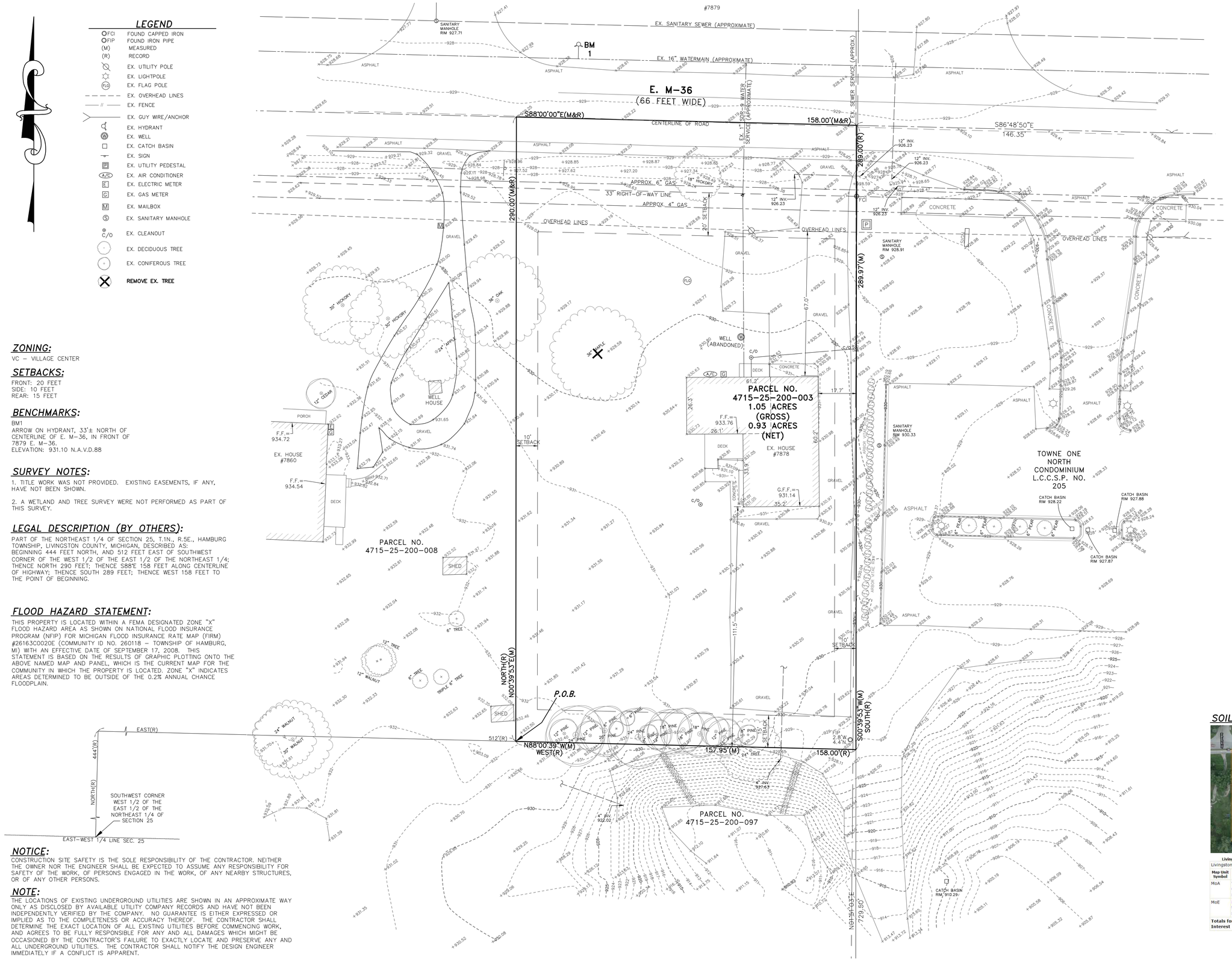

SOILS INFORMATION:

Livingston County, Michigan (MI093)

Livingston County, Michigan (MI093)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MoA	Wawasee loam, 0 to 2 percent slopes	1.0	92.2%
MoE	Miami loam, 18 to 25 percent slopes	0.1	7.8%
Totals for Area of Interest		1.1	100.0%

RESIDENTIAL
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Multi-Family
Plot Plans

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CLIENT: CARPET DEPOT, INC.

EXISTING CONDITIONS PLAN

7878 M-36 – PARCEL NO. 4715-25-200-003
TOWNSHIP: 1 N.
RANGE: 5 E.
SECTION: 25
HAMBURG TOWNSHIP
LIVINGSTON COUNTY
MICHIGAN

REVISED

DATE: 9–16–2022
DRAWN BY: CEH
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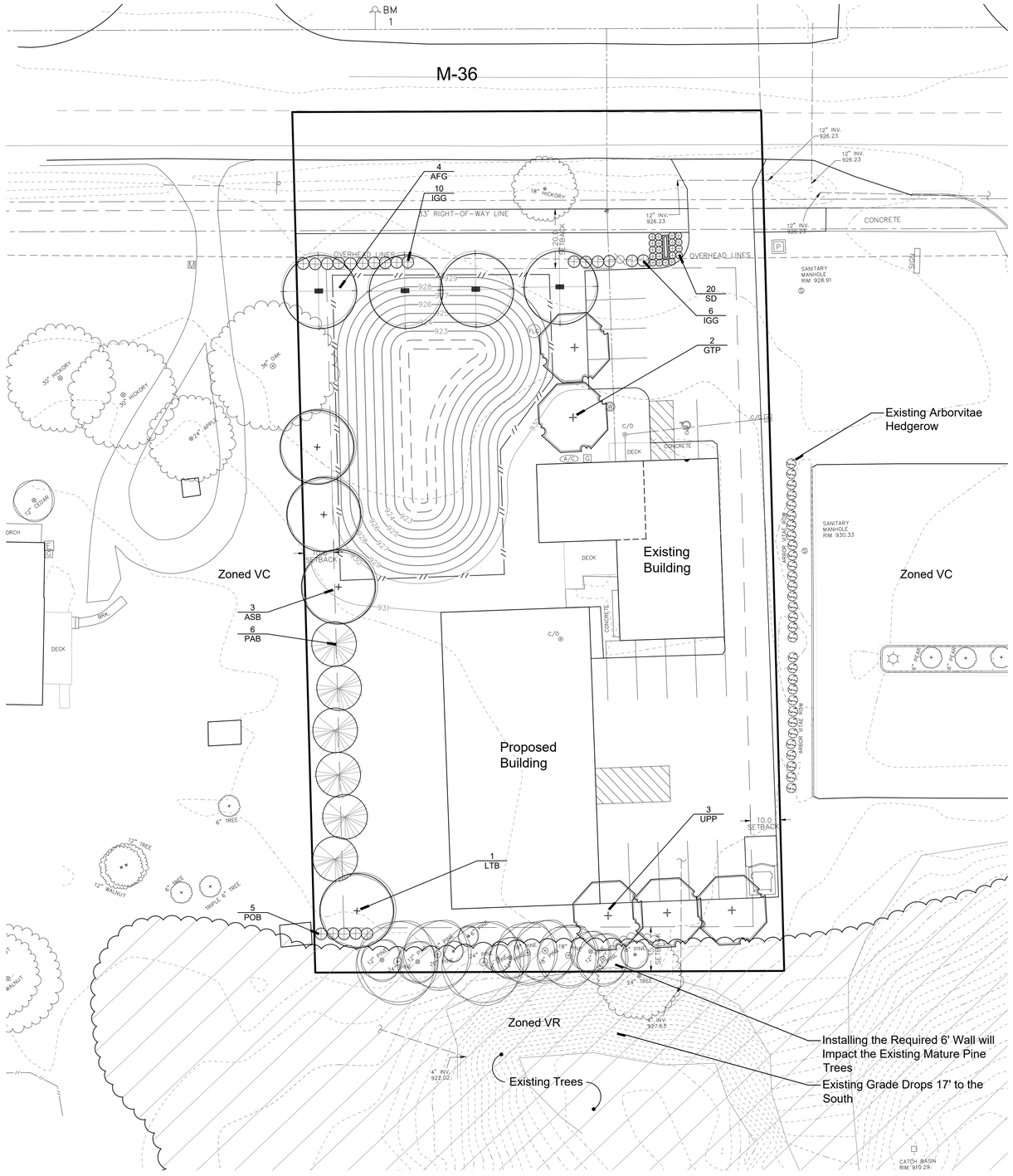
2
22–169



Landscape Summary

Greenbelt

Greenbelt Length	158 l.f.
Trees Required	3.95 Trees (158 / 40)
Trees Provided	4 Trees
Shrubs Required	15.8 Shrubs (158 / 40) x 4
Shrubs Provided	16 Shrubs

Bufferyard

East Frontage	257 l.f.
Trees Required	12.85 Trees (257 / 20)
Trees Provided	0 Trees
Shrubs Required	51.4 Shrubs (257 / 20) x 4
Shrubs Provided	0 Shrubs
South Frontage	158 l.f.
Trees Required	5.3 Trees (158 / 30)
Trees Provided	0 Trees
Evergreens Required	5.3 Trees (158 / 30)
Evergreens Provided	15 Trees (15 Existing)
Shrubs Required	21 Shrubs (158 / 30) x 4
Shrubs Provided	5 Shrubs
West Frontage	257 l.f.
Trees Required	12.85 Trees (257 / 20)
Trees Provided	10 Trees
Shrubs Required	51.4 Shrubs (257 / 20) x 4
Shrubs Provided	0 Shrubs

Parking Lot

Parking Lot Area	9,859 s.f.
Trees Required	4.9 Trees (9,859 / 2,000)
Trees Provided	5 Trees

Plant List

sym.	qty.	botanical name	common name	caliper	spacing	root	height
Greenbelt							
AFG	4	Acer x. freemanii 'Autumn Blaze'	Autumn Blaze Maple	2.5"	as shown	B&B	
IGG	16	Ilex glabra 'Shamrock'	Inkberry		as shown	cont	24"
	4	Trees Provided					
	16	Shrubs Provided					
Bufferyard							
ASB	3	Acer saccharum 'Green Mountain'	Sugar Maple	2.5"	as shown	B&B	
LTB	1	Liriodendron tulipifera	Tulip Tree	2.5"	as shown	B&B	
PAB	6	Picea abies	Norway Spruce		as shown	B&B	6'
POB	5	Physocarpus opulifolius 'Summer Wine'	Summer Wine Ninebark		as shown	cont	24"
	10	Trees Provided					
	5	Shrubs Provided					
Parking Lot							
GTP	2	Gleditsia triacanthos var. Inermis	Honey Locust	2.5"	as shown	B&B	
UPP	3	Ulmus x holandica 'Pioneer'	Pioneer Elm	2.5"	as shown	B&B	
	5	Trees Provided					
General Landscaping							
SD	20	Chrysanthemym x superbum 'Alaska'	Alaska Shasta Daisy		as shown	cont	#2

ALLENDESIGN
LAND PLANNING / LANDSCAPE ARCHITECTURE
557 Carpenter
Northville, Michigan 48167
e. jca@wideopenwest.com
t. 248.467.4668

Seal:

STATE OF MICHIGAN
JAMES C. ALLEN
Landscape Architect
No. 1301
REGISTERED LANDSCAPE ARCHITECT

Title:

Landscape Plan

Project:

7878 M-36
Hamburg Township, Michigan

Prepared for:

Greentech Enginerring
51147 Pontiac Trail
Wixom, Michigan 48393
248.668.0700

Revision:	Issued:
Review	August 15, 2022
Review	September 16, 2022

Job Number:

22-058

Drawn By:	Checked By:
jca	jca

0' 5' 10' 20'

NORTH
1"=20'

Sheet No.

L-1

NOTE:
GUY DECIDUOUS TREES ABOVE 3"CAL.. STAKE DECIDUOUS TREES BELOW 3" CAL.

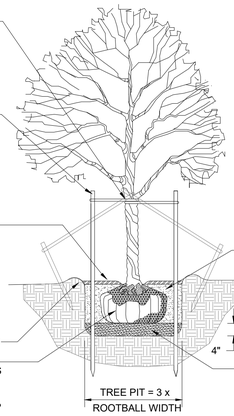
STAKE TREES AT FIRST BRANCH USING 2"-3" WIDE BELT-LIKE NYLON OR PLASTIC STRAPS. ALLOW FOR SOME MINIMAL FLEXING OF THE TREE. REMOVE AFTER ONE YEAR.

2" X 2" HARDWOOD STAKES, MIN. 36" ABOVE GROUND FOR UPRIGHT, 18" IF ANGLED. DRIVE STAKES A MIN. 18" INTO UNDISTURBED GROUND OUTSIDE ROOTBALL. REMOVE AFTER ONE YEAR.

MULCH 4" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. LEAVE 3" CIRCLE OF BARE SOIL AT BASE OF TREE TRUNK. PULL ANY ROOT BALL DIRT EXTENDING ABOVE THE ROOT FLARE AWAY FROM THE TRUNK SO THE ROOT FLARE IS EXPOSED TO AIR.

MOUND EARTH TO FORM SAUCER

REMOVE ALL NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN BURLAP FROM TOP 1/2 OF THE ROOTBALL.



PLANTING MIXTURE: AMEND SOILS PER SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL.

SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT BASE OF TO 4" DEPTH.

NOTE:
TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 6" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN BRANCHES.

REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

DECIDUOUS TREE PLANTING DETAIL

NOTE:
GUY EVERGREEN TREES ABOVE 12' HEIGHT. STAKE EVERGREEN TREE BELOW 12' HEIGHT.

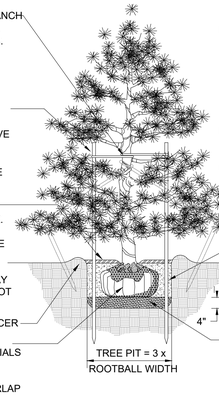
STAKE TREES AT FIRST BRANCH USING 2"-3" WIDE BELT-LIKE NYLON OR PLASTIC STRAPS. ALLOW FOR SOME MINIMAL FLEXING OF THE TREE. REMOVE AFTER ONE YEAR.

2" X 2" HARDWOOD STAKES, MIN. 36" ABOVE GROUND FOR UPRIGHT, 18" IF ANGLED. DRIVE STAKES A MIN. 18" INTO UNDISTURBED GROUND OUTSIDE ROOTBALL. REMOVE AFTER ONE YEAR.

MULCH 4" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. LEAVE 3" CIRCLE OF BARE SOIL AT BASE OF TREE TRUNK. PULL ANY ROOT BALL DIRT EXTENDING ABOVE THE ROOT FLARE AWAY FROM THE TRUNK SO THE ROOT FLARE IS EXPOSED TO AIR.

MOUND EARTH TO FORM SAUCER

REMOVE ALL NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN BURLAP FROM TOP 1/2 OF THE ROOTBALL.



PLANTING MIXTURE: AMEND SOILS PER SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL.

SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT BASE OF TO 4" DEPTH.

NOTE:
TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 6" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN BRANCHES.

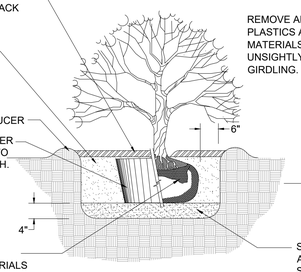
REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

EVERGREEN TREE PLANTING DETAIL

MULCH 3" DEPTH WITH SHREDDED HARDWOOD BARK. NATURAL IN COLOR. PULL BACK 3" FROM TRUNK.

PLANTING MIXTURE: AMEND SOILS PER SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL. MOUND EARTH TO FORM SAUCER

REMOVE COLLAR OF ALL FIBER POTS. POTS SHALL BE CUT TO PROVIDE FOR ROOT GROWTH. REMOVE ALL NONORGANIC CONTAINERS COMPLETELY.



REMOVE ALL NON-BIODEGRADABLE MATERIALS COMPLETELY FROM THE ROOTBALL. FOLD DOWN BURLAP FROM TOP $\frac{1}{3}$ OF THE ROOTBALL.

SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT BASE OF TO 4" DEPTH.

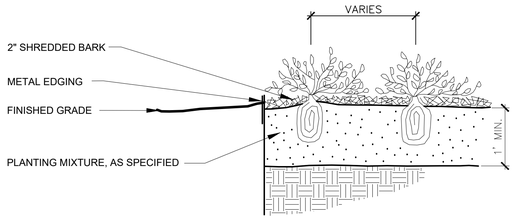
NOTE:
TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE ORIGINALLY OR SLIGHTLY HIGHER THAN FINISH GRADE UP TO 4" ABOVE GRADE, IF DIRECTED BY LANDSCAPE ARCHITECT FOR HEAVY CLAY SOIL AREAS.

PRUNE ONLY DEAD OR BROKEN BRANCHES.

REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

SHRUB PLANTING DETAIL

NOT TO SCALE



PERENNIAL PLANTING DETAIL

Not to scale

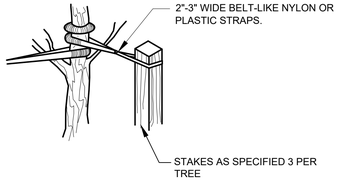
DOWNHILL SLOPE OR PREVAILING WIND

NOTE:
ORIENT STAKING/GUYING TO PREVAILING WINDS, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO SLOPE.

USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS WITHIN EACH GROUPING OR AREA

STAKING/GUYING LOCATION

GUYING DETAIL



STAKING DETAIL

TREE STAKING DETAIL

Not to scale

LANDSCAPE NOTES

1. All plants shall be north Midwest American region grown, No. 1 grade plant materials, and shall be true to name, free from physical damage and wind burn.
2. Plants shall be full, well-branched, and in healthy vigorous growing condition.
3. Plants shall be watered before and after planting is complete.
4. All trees must be staked, fertiiized and mulched and shall be guaranteed to exhibit a normal growth cycle for at least two (2) full years following Township approval.
5. All material shall conform to the guidelines established in the most recent edition of the American Standard for Nursery Stock.
6. Provide clean backfill soil, using material stockpiled on site. Soil shall be screened and free of any debris, foreign material, and stone.
7. "Agriform" tabs or similar slow-release fertilizer shall be added to the planting pits before being backfilled.
8. Amended planting mix shall consist of 1/3 screened topsoil, 1/3 sand and 1/3 peat, mixed well and spread to the depth as indicated in planting details.
9. All plantings shall be mulched per planting details located on this sheet.
10. The Landscape Contractor shall be responsible for all work shown on the landscape drawings and specifications.
11. No substitutions or changes of location, or plant types shall be made without the approval of the Landscape Architect.
12. The Landscape Architect shall be notified of any discrepancies between the plans and field conditions prior to installation.
13. The Landscape Contractor shall be responsible for maintaining all plant material in a vertical condition throughout the guaranteed period.
14. The Landscape Architect shall have the right, at any stage of the installation, to reject any work or material that does not meet the requirements of the plans and specifications, if requested by owner.
15. Contractor shall be responsible for checking plant quantities to ensure quantities on drawings and plant list are the same. In the event of a discrepancy, the quantities on the plans shall prevail.
16. The Landscape Contractor shall seed and mulch or sod (as indicated on plans) all areas disturbed during construction, throughout the contract limits.
17. A pre-emergent weed control agent, "Preen" or equal, shall be applied uniformly on top of all mulching in all planting beds.
18. All landscape areas shall be provided with an underground automatic sprinkler system.
19. Sod shall be two year old "Baron/Cheriadelphi" Kentucky Blue Grass grown in a sod nursery on loam soil.

Know what's below. Call before you dig.

ALLENDESIGN
LAND PLANNING / LANDSCAPE ARCHITECTURE
557 Carpenter
Northville, Michigan 48167
e. jca@wideopenwest.com
t. 248.467.4668

Seal:

Title:

Landscape Details

Project:

7878 M-36
Hamburg Township, Michigan

Prepared for:

Greentech Enginerring
51147 Pontiac Trail
Wixom, Michigan 48393
248.668.0700

Revision:	Issued:
Review	August 15, 2022
Review	September 16, 2022

Job Number:

22-058

Drawn By:	Checked By:
jca	jca

Sheet No.

L-2

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	EXIST	3	EXIST	EXIST	EXIST	EXIST	1642	1	11.3583
	A	3	Lithonia Lighting	WDGE2 LED P3 40K 80CRI TFTM	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 80CRI, TYPE FORWARD THROW MEDIUM OPTIC	LED	3166	0.9	32.1375

Statistics

Description	Symbol	Avg	Max	Min	Avg/Min	Max/Min
Grade @ 0'	+	0.1 fc	4.3 fc	0.0 fc	N/A	N/A
Parking and Drive	✳	0.9 fc	4.3 fc	0.0 fc	N/A	N/A
Property Line	+	0.0 fc	0.6 fc	0.0 fc	N/A	N/A

General Note

1. LUMINAIRE MOUNTING HEIGHT 15' - 0"
2. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0"
3. LIGHTING ALTERNATES REQUIRE NEW PHOTOMETRIC CALCULATION AND RESUBMISSION TO CITY FOR APPROVAL.

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

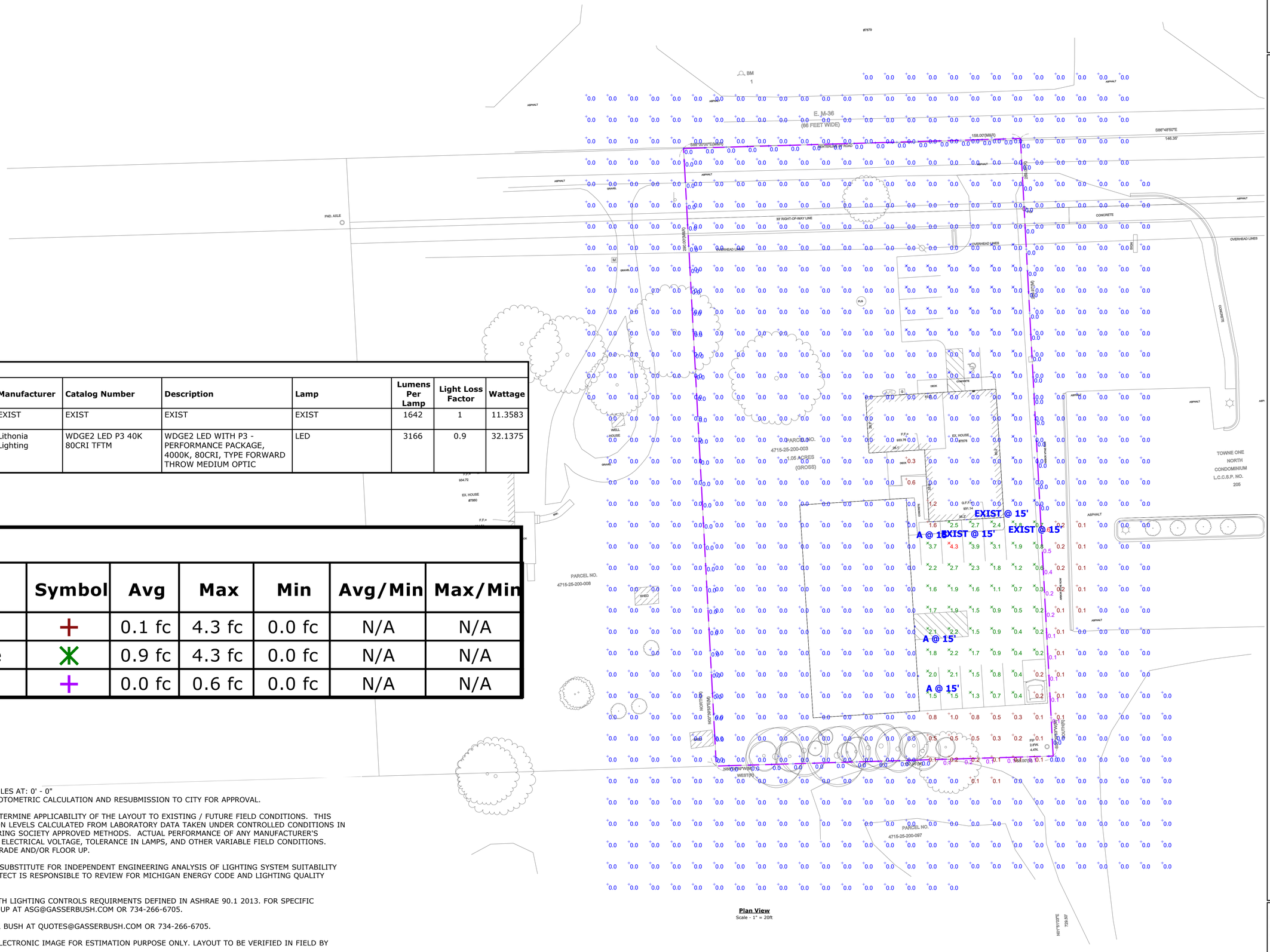
THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

FOR ORDERING INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.



Plan View
Scale - 1" = 20ft

CARPET DEPOT WAREHOUSE
PHOTOMETRIC PLAN
PREPARED FOR: GREENTECH ENGINEERING
GASSER BUSH ASSOCIATES
WWW.GASSERBUSH.COM

Designer DS
Date 08/09/2022
Scale Not to Scale
Drawing No. #22-78764 V1

WDGE2 LED

Architectural Wall Sconce
Precision Refractive Optic

Buy American

Catalog Number

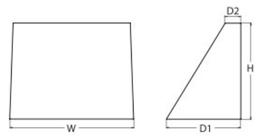
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1]	27K 2700K	70CRI[6]	T1S Type I Short	MVOLT	**Shipped included**
	P1[2]	30K 3000K	80CRI	T2M Type II Medium	347[3]	SRM Surface mounting bracket
	P2[2]	40K 4000K	LW[7] Limited Wavelength	T3M Type III Medium	480[3]	ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[8]
	P3[2]	50K 5000K		T4M Type IV Medium		
	P4[2]	AMB[7] Amber		TFTM Forward Throw Medium		

Shipped separately
AWS 3/8inch Architectural wall spacer
PBBW 5 surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[7] Photocell, Button Type
DMG[4] 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA Buy America(n) Act Compliant

Standalone Sensors/Controls
PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls
NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD Dark bronze
DBLXD Black
DNAXD Natural aluminum
DWHXD White
DSSXD Sandstone
DDBTXD Textured dark bronze
DBLBXD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white
DSSTXD Textured sandstone

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	EXIST	3	EXIST	EXIST	EXIST	EXIST	1642	1	11.3583
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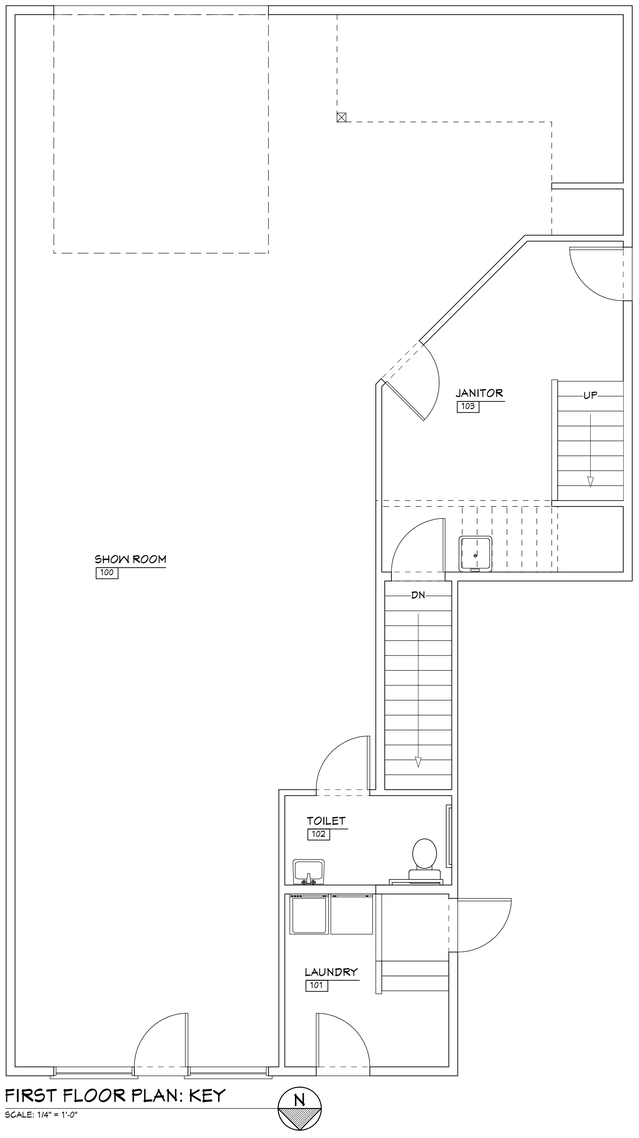
CARPET DEPOT WAREHOUSE
PHOTOMETRIC PLAN
PREPARED FOR: GREENTECH ENGINEERING
GASSER BUSH ASSOCIATES
WWW.GASSERBUSH.COM

Designer
DS
Date
08/09/2022
Scale
Not to Scale
Drawing No.
#22-78764 V1



FIRST FLOOR PLAN: KEY

SCALE: 1/4" = 1'-0"

N

DRAWING INDEX

The drawings listed above have been prepared under the supervision of Liz Harrow and constitute the full set of drawings that are the responsibility of Liz Harrow, Architect

STATE OF MICHIGAN
ELIZABETH W. HARROW
ARCHITECT
No. 35297
LICENSED ARCHITECT

SEAL AND SIGNATURE OF DESIGN PROFESSIONAL OF THIS PLAN SET

LIZ HARROW, ARCHITECT
1147 DAISY LANE
EAST LANSING, MI. 48823
PH# 517-803-8874

CODE AUTHORITIES HAVING JURISDICTION

ZONING	Livingston County Building Department 517- 546- 3830	MBC 2015
LOCAL AGENCY	Livingston County Building Department 517- 546- 3830	
BARRIER FREE DESIGN	Livingston County Building Department 517- 546- 3830	2015 Michigan Building Code, Chapter 11 ICC A117.1-2009 & 2010 ADA
MECHANICAL CODE,	Livingston County Building Department 517- 546- 3830	Michigan Mechanical Code 2015
PLUMBING CODE	Livingston County Building Department 517- 546- 3830	Michigan Plumbing Code 2015
ELECTRICAL CODE	Livingston County Building Department 517- 546- 3830	NEC 2017 (State of Michigan Electrical Code) ASHRAE 90.1: 2010: In Compliance
FIRE ALARM & FIRE PROTECTION	Hamburg Township Fire Department 810- 222- 1105	IFC 2018
HEALTH DEPARTMENT	Livingston County Health Department 517- 546- 9850	

OTHER AUTHORITIES HAVING JURISDICTION

		OTHER REVIEWERS
WATER	West Side Water System Water Department 517- 455- 5470	
ELECTRIC	Consumers Energy Electric Services 517- 374- 2320	
GAS	Consumers Energy Gas Engineering 517- 374- 2320	
STORM SEWERS	Ingham County Drain Commission 517- 676- 8345	
SANITARY SEWERS	Ingham County Drain Commission 517- 676- 8345	
ROADWAY	Ingham County Road Commission 517- 676- 9722	

GENERAL BUILDING REQUIREMENTS

1. Use Group: B
2. Construction Type: 5B
3. Square Footage: 1,776

MISS DIG 811

3 WORKING DAYS BEFORE YOU DIG
CALL MISS DIG
800-482-7171
www.missdig.org

UTILITY WARNING

Underground utility locations, as shown on the plan, were obtained from utility owners and were not field located. A minimum of 3 working days prior to beginning construction, the contractor shall notify "MISS DIG" and have all underground utilities staked before any work may begin. The contractor shall be responsible for the protection of all utilities that may interfere with construction. Protection of utilities shall be incidental to construction.

NORTH

SITE LOCATION MAP

LIZ HARROW, ARCHITECT
1147 Daisy Lane
East Lansing, MI 48823
517-803-8874

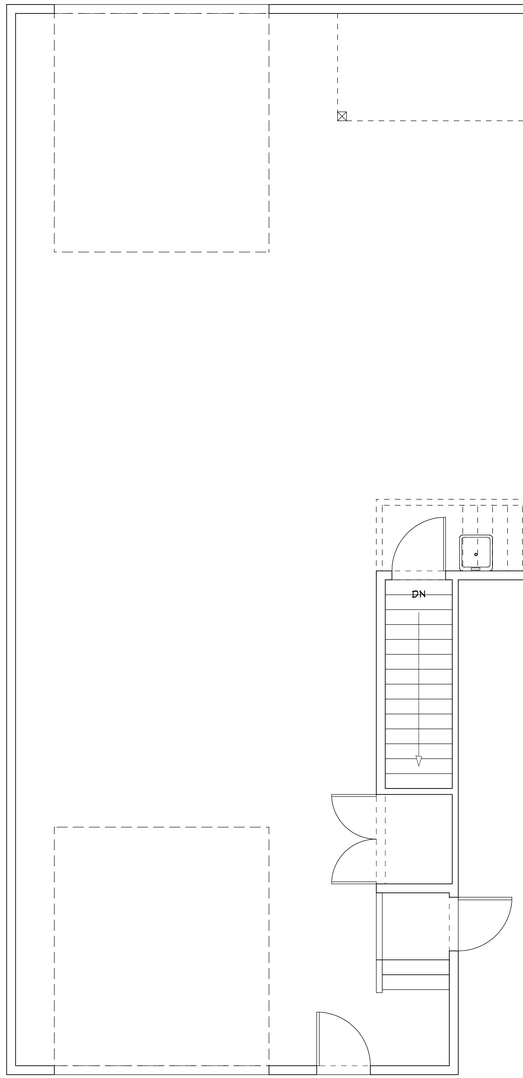
BUILDER:

CARPET DEPOT REMODEL
7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
06- 20- 2022
08- 08- 2022

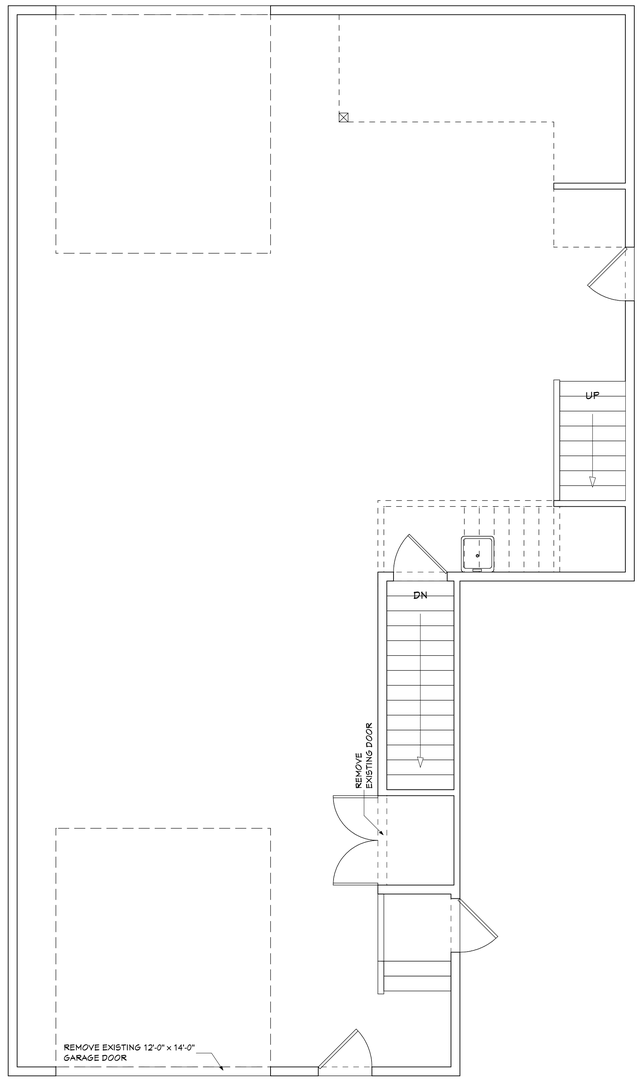
2283-22
PROJECT NUMBER:

C0.1
PAGE NUMBER:



FIRST FLOOR PLAN: EXISTING

SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN: DEMO

SCALE: 1/4" = 1'-0"

EXISTING DOOR (TO REMOVE)

EXISTING DOOR (TO REMAIN)

GENERAL DEMOLITION NOTES

1. All items of demolition with salvageable value shall be placed in owner's storage unless instructed otherwise.

2. Coordinate all demolition work with individual trades.

3. The structural integrity of the building shall not be altered.

4. The contractor shall field verify all conditions for removal of all components necessary for coordination with new installations. These drawings are for general demolition only and are not intended to be shop drawings or "as built" drawings. All work that interferes with new construction, whether shown or not shown, shall be removed or relocated as directed by the owner or owner's representative.

5. Provide dust protection to all occupied areas, especially those containing computer and/ or electronic systems.

WALLS TO BE REMOVED

EXISTING WALLS TO REMAIN

LIZ HARROW, ARCHITECT
1141 Daisy Lane
East Lansing, MI 48823
517-803-8814

BUILDER:

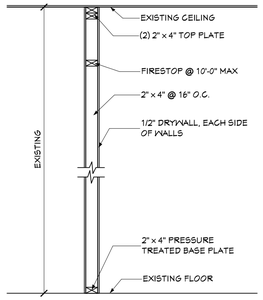
CARPET DEPOT
REMODEL

7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
06- 20- 2022
08- 08- 2022

2283-22
PROJECT NUMBER:

A1.1
PAGE NUMBER:



TYPICAL INTERIOR WALL SECTION

SCALE: 1/2" = 1'-0"

GENERAL FIRESTOPPING NOTES

1. Provide Firestopping systems at all membrane and through penetrations of rated wall of floor/ceiling systems. Contract with a single manufacturer for firestopping systems. Fire stopping manufacturer shall provide submittal of system(s), and provide for on site instruction and inspection of installation.
2. All assemblies shall have an "F" rating that matches the hourly fire rating.
3. Through Penetration Protection System = TPPS
4. For installations or configurations not covered by UL or FM design number, a recommendation shall be obtained from the manufacturer, in writing, for the specific application, signed by a certified engineer.
5. All materials shall be asbestos free and non-carcinogenic.
6. Firestop materials shall not contain flammable or toxic solvents and shall not produce toxic or flammable outgassing during the drying or curing process.
7. Firestopping materials and systems must be intumescent or be capable of filling through openings created by the burning or melting of combustible pipes, pipe insulation materials or cable jacketing and the deflection of sheet metal due to thermal expansion.
8. Firestop sealants must be elastomeric or flexible to allow for normal pipe movement.
9. Do not proceed to enclose firestopping with other construction until local building inspectors have inspected the work and have given approval to close the work.
10. Holes cut for penetrations shall be within allowable limits for TTPS. Typically openings should allow for caulk or sealant beads around opening of at least 1/4" but no more than 1/2". Verify with each TTPS and manufacturer's technical representative.
11. After installation, properly identify all firestop systems. Identification shall occur at location where system has been installed and shall include:
    A. Identify the firestopping system that has been installed as being a "Rated Penetration Firestop System - Do Nor Disturb"
    B. Use label minimum 3" x 5", yellow and black OSHA colors with manufacturer, building owner representative and/or contractor clearly identified.
12. Penetrations of concrete or masonry wall assemblies by 6" maximum diameter, non-combustible pipe, conduit, or steel jacketed wires, in openings less than 144 square inches may be protected by filling the complete wall thickness, for the total perimeter of opening, with concrete, grout, or mortar.
13. All non rated full height walls shall have all voids firestopped to resist the passage of smoke.

SPECIFICATIONS

1 All door openings shall be protected with 1¾" flush solid core wood doors or 20-minute labeled fire-rated doors in smoke-tight, substantial frames and equipped with approved self-closing devices and non-locking-against-egress positive latching hardware.

2 Exit doors and all egress doors shall be side-hinged and equipped with approved hardware.

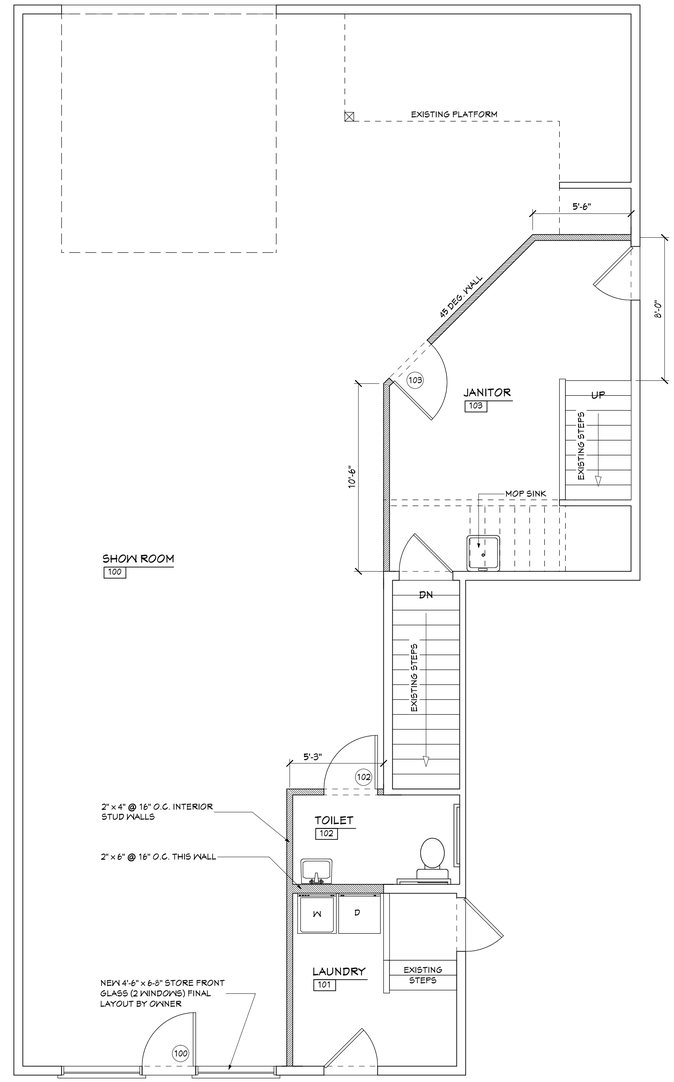
3 Storage rooms larger than 100 square feet require 1-hour fire resistive construction, including a minimum of 45-minute rated fire doors and frame assemblies equipped with an approved self-closing device and positive latching hardware. "B" labeled doors are acceptable.

4 Storage rooms 100 square feet or smaller shall be of 1-hour fire resistive construction. All door openings shall be protected with a minimum of 1¾" flush solid core wood doors or 20-minute labeled fire doors and frame assemblies equipped with an approved self-closing device and positive latching hardware.

5 Heating shall be by a central heating plant or an approved permanently installed electrical heating system. Heating plants located on the same floor as the children shall be in 1-hour fire resistive enclosures including a minimum of 45-minute rated fire doors and frame assemblies with approved self-closing devices and positive latching hardware in any interior openings. Door openings for heat plant enclosures not located on the same floor as the children may have 1¾" flush solid wood core doors or 20-minute labeled fire doors with positive latching hardware and approved self-closing devices. Air for proper combustion shall be provided directly from the outside at a minimum rate of 1 square inch per 4,000 BTUs input and through a permanently open louver or metal duct. "B" labeled doors are acceptable.

PLAN NOTES

1. Contractors shall review and verify all dimensions and shall notify Architect of any discrepencies.
2. The Owner is responsible for obtaining proper building permit from the local authorities.
3. Applicable federal, state or local acts, codes, laws, ordinances, and regulations, etc. shall be considered as part of the requirements for this project and shall take precendent over these drawings and specifications. Advise the Architect of potential conflicts between these drawings and possible interpretations of codes, ordinances and regulations.
4. All mechanical and electrical work shall be completed by licensed Contractors who shall obtain the proper permits from local authorities.
5. The contractor shall assume that he may be required to provide the highest quality of work and the greatest quantity of materials required for a complete project conforming to all noted codes, whether or not such materials required for such conformance are indicated in these plans.
6. CONSTRUCTION METHODS; The Architect is not responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions since these are solely the contractors responsibility.
7. OWNER- AUTHORIZED CHANGES; If the owner authorizes deviations/ recorded or unrecorded; from the documents prepared by the Architect and Consultants without written agreement of the Architect, the owner shall indemnify and hold harmless the Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys fees, arising out of or resulting in whole or in part from such deviations, regardless of whether or not such claim, damage, loss or expense is caused by a party indemnified hereunder.
8. INTERIOR WALL, TYPE I:
   Dimensioned at 5" nominal, 5/8" gypsum drywall each side of 2x4 wood studs at 1'-4" on center.
9. Provide nonabsorbant finish and backing at Toilet Room walls and floors. Provide 4" base and water resistant gypsum drywall on surfaces adjacent to water closets, lavatories, mop basin and drinking fountains.
10. All wood in contact with earth, concrete, concrete masonry, clay masonry, or exposed to the weather shall be treated to resist decay.
11. Exit doors shall remain unlocked during normal occupancy.
12. The address (street number) location shall be shown on the building. Six-inch-tall numbers visible from the street shall be required. The address location is subject to approval of the



FIRST FLOOR PLAN: NEW

SCALE: 1/4" = 1'-0"

NEW WALL

NEW DOOR

LIZ HARROW, ARCHITECT
1141 Daisy Lane
East Lansing, MI 48823
517-803-8814

BUILDER:

CARPET DEPOT REMODEL

7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
08- 20- 2022
08- 06- 2022

2283-22
PROJECT NUMBER:

A1.2
PAGE NUMBER:

DOOR & FRAME SCHEDULE

DOOR							FRAME					REMARKS
NUMBER	SIZE	TYPE	MATERIAL	HARDWARE	LABEL	GLASS	TYPE	MATERIAL	HEAD DETAIL	JAMB DETAIL	LABEL	
100	3068	FG	M	1			I	M				
102	3068	F	SCW	3			I	M				SIGN= "UNI-SEX"
103	3068	F	SCW	2			I	M				

DOOR SCHEDULE NOTES:

1. The first two digits of the door size refers to the door width in feet and inches, the second two digits refer to the door height in feet and inches. (i.e. 3068 represents 3'-0" x 6'-8" high door.

2. Door type column letter refers to door type drawings show.

3. Frame type roman numerals refer to door frame types drawings shown.

4. Label indications refer to fire- resistive assembly

5. All doors are 1 3/4" thick unless noted otherwise

ABBREVIATIONS:

HM	HOLLOW METAL
HCW	HOLLOW CORE WOOD
SCW	SOLID CORE WOOD
AL	ALUMINUM
WD	WOOD
M	METAL
SG	SAFETY GLASS
HR	HOUR

HARDWARE SCHEDULE

HARDWARE SET #1- EXTERIOR ENTRANCE
EACH DOOR SHALL HAVE:

3.0 EACH HINGES
1.0 EACH CLOSER
1.0 EACH LOCKSET - LEVER HANDLE
1.0 EACH WEATHERSEAL
1.0 EACH DOOR SWEEP
1.0 EACH THRESHOLD
1.0 EACH KICK PLATE
1.0 EACH DOOR STOP
1,0 EACH HANDICAP ELECTRIC DOOR OPENER

HARDWARE SET #2- INTERIOR
EACH DOOR SHALL HAVE:

3.0 EACH HINGES
1.0 EACH CLOSER
1.0 EACH LOCKSET- LEVER HANDLE
1.0 EACH KICK PLATE (OWNER'S OPTION)
1.0 EACH DOOR STOP

HARDWARE SET #3- TOILET ROOMS
EACH DOOR SHALL HAVE:

3.0 EACH HINGES
1.0 EACH CLOSER
1.0 EACH PRIVACY LATCHSET- LEVER HANDLE
1.0 EACH DOOR STOP

HARDWARE SET #4- INTERIOR ENTRANCE
EACH DOOR SHALL HAVE:

3.0 EACH HINGES
1.0 EACH CLOSER
1.0 EACH KICK PLATE
1.0 EACH DOOR STOP

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL FINISH NORTH	WALL FINISH SOUTH	WALL FINISH EAST	WALL FINISH WEST	CEILING MAT.	CEILING HGT.	FIRE RAT.	REMARKS
100	SHOW ROOM	EXISTS	V-C	REPAIR/ PAINT	REPAIR/ PAINT	REPAIR/ PAINT	GDV/PT	EXIST	EXIST		
101	LAUNDRY	EXISTS	V-C	REPAIR/ PAINT	GDV/PT	GDV/PT	REPAIR/ PAINT	EXIST	EXIST		
102	TOILET	EXISTS	V-C	REPAIR/ PAINT GDV/PT	REPAIR/ PAINT GDV/PT	GDV/PT	REPAIR/ PAINT	EXIST	EXIST		
103	JANITOR	EXISTS	V-C	REPAIR/ PAINT	GDV/PT	GDV/PT	REPAIR/ PAINT	EXIST	EXIST		

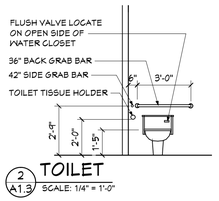
ABBREVIATIONS LEGEND

GDV/PT	Gypsum drywall, painted
V-C	Vinyl base, cove style
RPR	Repair

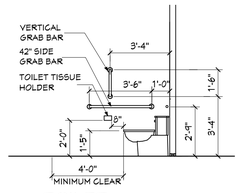
ROOM FINISH NOTES

1. All finishes shall be class III (Flame spread index of 76-200) or better.

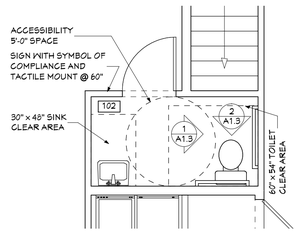
2. Provide non- absorbant finish and backing for toilet room floors and wall within 2 feet of the water closet in accordance with MBC



2 A1.3 TOILET
SCALE: 1/4" = 1'-0"



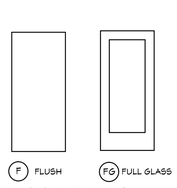
1 A1.3 TOILET
SCALE: 1/4" = 1'-0"



TOILET ROOMS-102

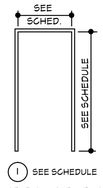
SCALE: 1/4" = 1'-0"

NOTE: CONNECT NEW PLUMBING FIXTURES, PIPING, ETC. TO EXISTING PLUMBING OF EXISTING TOILET ROOMS. VERIFY CONDITIONS ON SITE AND REPAIR AS REQUIRED PER CODE.



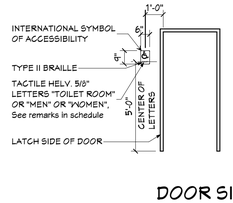
DOOR TYPES

SCALE: 1/4" = 1'-0"



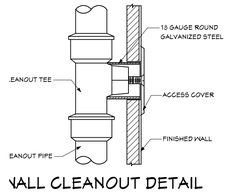
FRAME TYPES

SCALE: 1/4" = 1'-0"



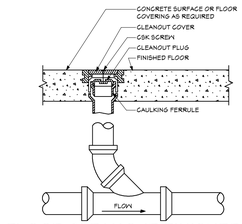
DOOR SIGNAGE

SCALE: 1/4" = 1'-0"



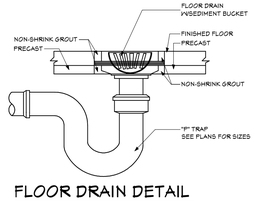
WALL CLEANOUT DETAIL

T.S.



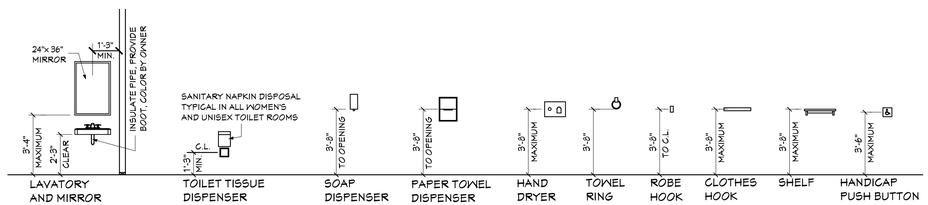
FLOOR CLEANOUT-FINISHED ROOMS

N.T.S.



FLOOR DRAIN DETAIL

N.T.S.



STANDARD ADA/BF MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0" IF APPLICABLE

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1141 Daisy Lane
East Lansing, MI 48823
517-803-8614

BUILDER:

CARPET DEPOT REMODEL
7676 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
08- 20- 2022
08- 06- 2022

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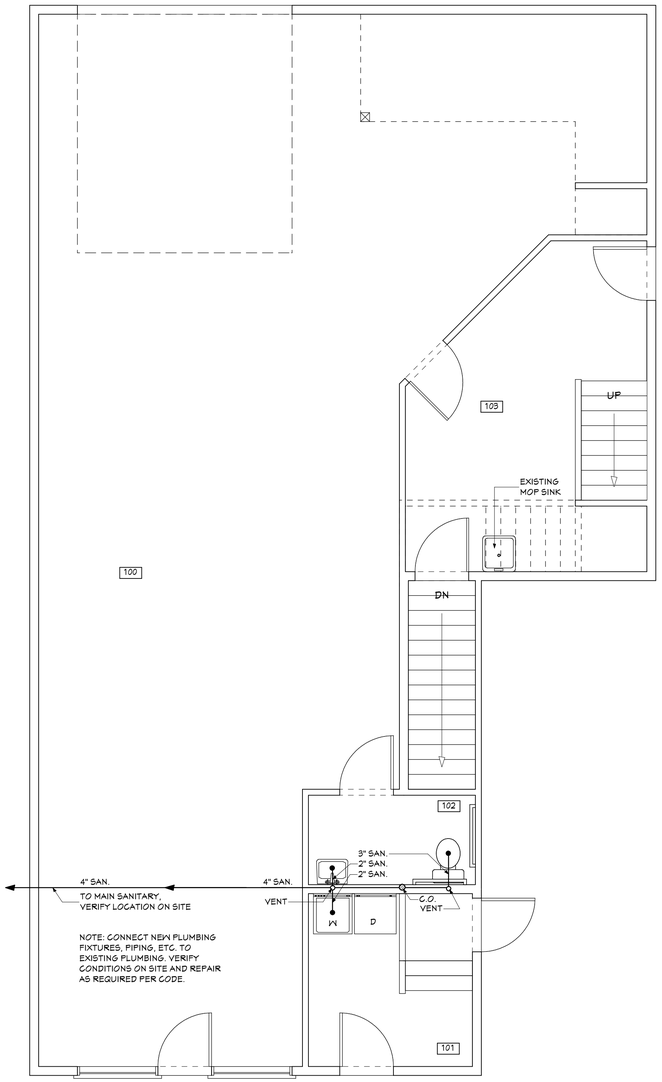
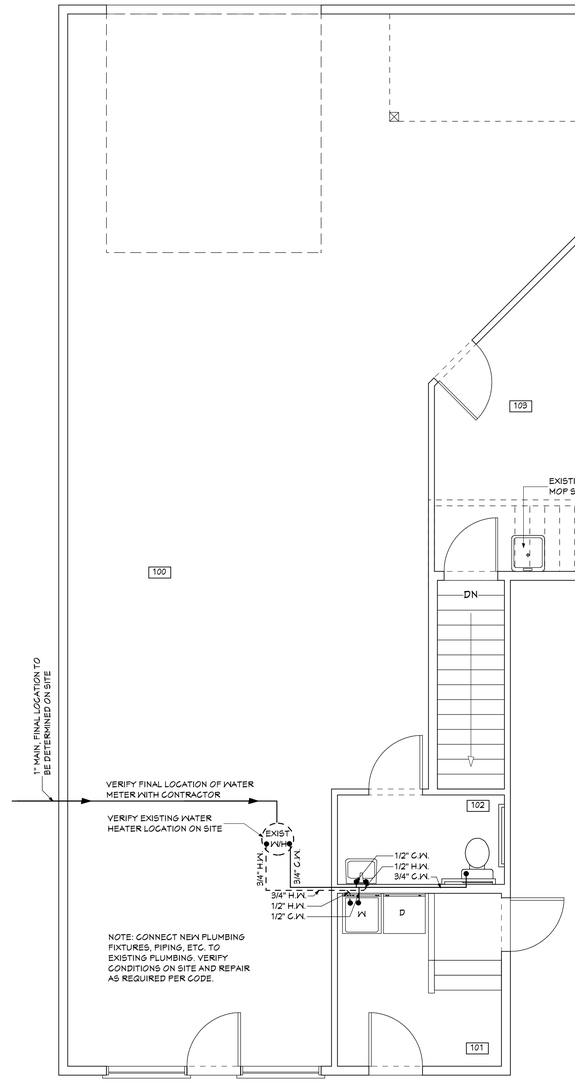


FIRST FLOOR PLAN: SANITARY

SCALE: 1/4" = 1'-0"

ROOM NAME LEGEND	
ROOM NO.	ROOM NAME
100	SHOW ROOM
101	LAUNDRY
102	TOILET
103	JANITOR



FIRST FLOOR PLAN: PLUMBING

SCALE: 1/4" = 1'-0"

GENERAL PLUMBING NOTES

1) Pipe specifications to be provided by plumbing contractor and are not a part of this plan set

2) The plumbing permit or a copy shall be kept on the site of work until the completion of the project

3) All water fed equipment shall be protected with an approved back flow preventor

5) Owner shall provide information for water heater sizing

6) Provide vents through ceiling if possible, provide AAV vents if required

7) Main vent shall be determined by plumbing contractor. Provide vent per code

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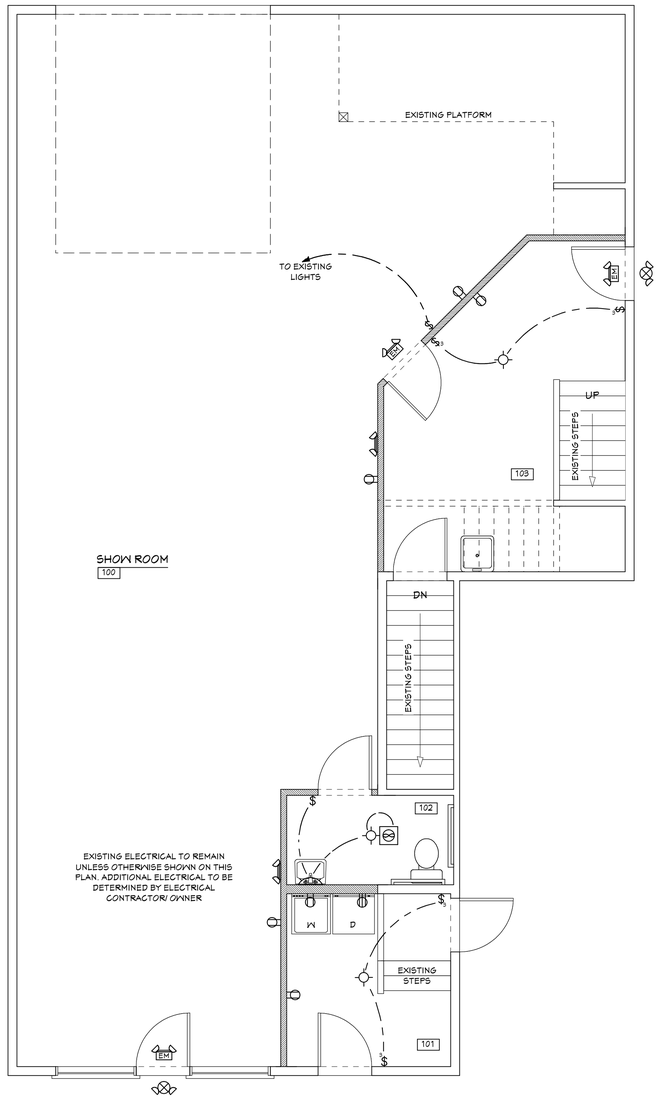
GENERAL ELECTRICAL NOTES AND SPECIFICATIONS

1. All work shall be done in acordance with the latest edition of the National Electrical Code (NEC), and all state and local codes.
2. Coordinate the installation of all electrical equipment and connections with architectural and mechanical plans and equipment drawings.
3. All conductors shall be copper, aluminum conductors will not be acceptable.
4. Motor loads which are less than 6.0 amps shall be protected by a 15 amp circuit breaker.
5. Final connection to items subject to vibration shall be made with flexible metallic or liquidtite flexible metallic conduit. Install liquidtite flexible conduit in wet, damp, or corrosive atmosphere locations. Flexible metallic conduit or liquidtite flexible metallic conduit will not be approved for use as a grounding conductor. A seperate green ground wire shall be installed in all flexible metallic conduit and liquidtite flexible metallic conduit.
6. All disconnect switches shall be standard duty type. Disconnect switches installed indoors shall be NEMA type 1. Weatherproof disconnect switches shall be NEMA type 3R.
7. All circuit breakers controlling or switching light fixtures shall be "SWD" rated. All circuit breakers controlling HVAC equipment shall be "HACR" rated.
8. All receptacles installed on 15 amp and 20 amp circuits shall be of the grounding type.
9. All fractional horsepower motor starters shall consist of a horsepower rated toggle switch, thermal overload and red pilot light in a common enclosure. Enclosure shall be NEMA type 1 for indoor locations and NEMA type 3R for outdoor locations.
10. Back to back or through wall boxes shall not be used. Boxes installed on opposite sides of a fire rated partition shall be separated by 24" min.
11. All conduits run in floor slab shall be spaced a minimum of one conduit diameter apart except where they rise to a panel.
12. All device mountings heights shall comply with the State of Michigan barrier free requirements.
13. Electrical and data lines to be verified with lessee before construction begins
14. Battery back-up exit and emergency lights shall be fed from the same circuit as normal lighting in their respective areas and be connected ahead of any local switches. Provide power for exterior signs
15. Exit signs shall be internally or externally illuminated at all times. To ensure continued illumination for a duration of not less than 90 minutes, in case of primary power loss, the sign illumination means shall be connected to an emergency power system provided from storage batteries, unit equipment, or an on-site generator.
16. All detectors shall be installed and maintained in operable condition per their manufacturer's recommendations.
17. Multi-purpose fire extinguishers with a minimum 2A-10BC classification shall be installed in or adjacent to the door of the heat plant room.

FIXTURE LEGEND

LIGHT SWITCH	$ $3 $4
220 OUTLET	
DUPLEX OUTLET	
GROUND FAULT INTERUPT OUTLET	GFCI
EMERGENCY EXIT LIGHT	
EMERGENCY EGRESS LIGHT	EM
EMERGENCY FLOOD LIGHT	
EXTERIOR FLOOD LIGHT	
LUMINATED EXIT SIGN	
EXHAUST FAN	
LED LIGHT FIXTURE	



FIRST FLOOR PLAN: ELECTRICAL

SCALE: 1/4" = 1'-0"

N

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CARPET DEPOT REMODEL
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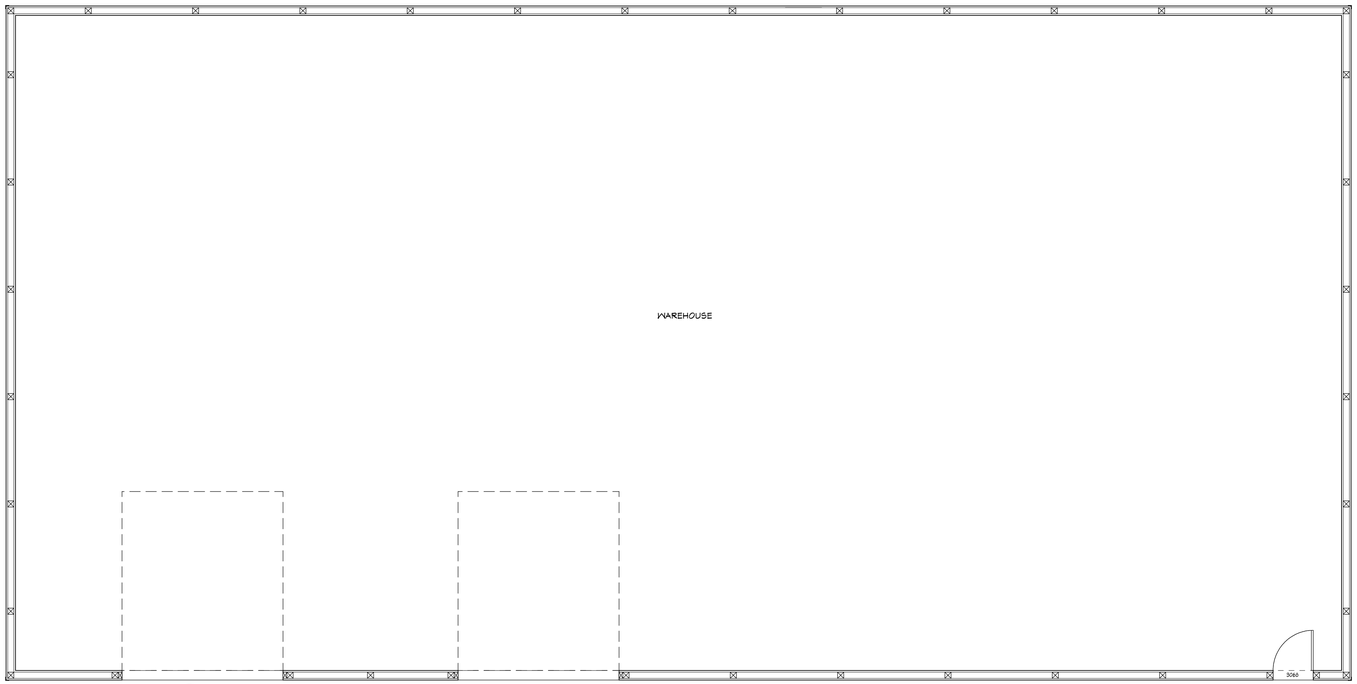

FIRST LEVEL PLAN: KEY

SCALE: 3/16" = 1'-0"

DRAWING INDEX

The drawings listed above have been prepared under the supervision of Liz Harrow and constitute the full set of drawings that are the responsibility of Liz Harrow, Architect

STATE OF MICHIGAN · ELIZABETH W. HARROW · ARCHITECT · No. 35297 · LICENSED ARCHITECT

SEAL AND SIGNATURE OF DESIGN PROFESSIONAL OF THIS PLAN SET

LIZ HARROW, ARCHITECT
1147 DAISY LANE
EAST LANSING, MI. 48823
PH# 517-803-8874

CODE AUTHORITIES HAVING JURISDICTION

ZONING	Livingston County Building Department 517- 546- 3830	MBC 2015
LOCAL AGENCY	Livingston County Building Department 517- 546- 3830	
BARRIER FREE DESIGN	Livingston County Building Department 517- 546- 3830	2015 Michigan Building Code, Chapter 11 ICC A117.1-2009 & 2010 ADA
MECHANICAL CODE,	Livingston County Building Department 517- 546- 3830	Michigan Mechanical Code 2015
PLUMBING CODE	Livingston County Building Department 517- 546- 3830	Michigan Plumbing Code 2015
ELECTRICAL CODE	Livingston County Building Department 517- 546- 3830	NEC 2017 (State of Michigan Electrical Code) ASHRAE 90.1: 2010: In Compliance
FIRE ALARM & FIRE PROTECTION	Hamburg Township Fire Department 810- 222- 1105	IFC 2018
HEALTH DEPARTMENT	Livingston County Health Department 517- 546- 9850	

OTHER AUTHORITIES HAVING JURISDICTION

		OTHER REVIEWERS
WATER	West Side Water System Water Department 517- 485- 5470	
ELECTRIC	Consumers Energy Electric Services 517- 374- 2320	
GAS	Consumers Energy Gas Engineering 517- 374- 2320	
STORM SEWERS	Ingham County Drain Commission 517- 676- 8345	
SANITARY SEWERS	Ingham County Drain Commission 517- 676- 8345	
ROADWAY	Ingham County Road Commission 517- 676- 9722	

GENERAL BUILDING REQUIREMENTS

1. Use Group: S1
2. Construction Type: 5B
3. Square Footage: 5,000
4. Occupancy: 200 S.F. per person = 25 Occupants max

MISS DIG 811

3 WORKING DAYS BEFORE YOU DIG
CALL MISS DIG
800-482-7171
www.missdig.org

UTILITY WARNING

Underground utility locations, as shown on the plan, were obtained from utility owners and were not field located.
A minimum of 3 working days prior to beginning construction, the contractor shall notify "MISS DIG" and have all underground utilities staked before any work may begin.
The contractor shall be responsible for the protection of all utilities that may interfere with construction. Protection of utilities shall be incidental to construction.

NORTH

SITE LOCATION MAP

LIZ HARROW, ARCHITECT
1147 Daisy Lane
East Lansing, MI 48823
517-803-8874

BUILDER:

CARPET DEPOT WAREHOUSE
7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
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07- 21- 2022
09- 06- 2022

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PLAN NOTES

1. Contractors shall review and verify all dimensions and shall notify Architect of any discrepencies.
2. The Owner is responsible for obtaining proper building permit from the local authorities.
3. Applicable federal, state or local acts, codes, laws, ordinances, and regulations, etc. shall be considered as part of the requirements for this project and shall take precendent over these drawings and specifications. Advise the Architect of potential conflicts between these drawings and possible interpretations of codes, ordinances and regulations.
4. All mechanical and electrical work shall be completed by licensed Contractors who shall obtain the proper permits from local authorities.
5. The contractor shall assume that he may be required to provide the highest quality of work and the greatest quantity of materials required for a complete project conforming to all noted codes, whether or not such materials required for such conformance are indicated in these plans.
6. CONSTRUCTION METHODS; The Architect is not responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions since these are solely the contractors responsibility.
7. OWNER- AUTHORIZED CHANGES; If the owner authorizes deviations/ recorded or unrecorded; from the documents prepared by the Architect and Consultants without written agreement of the Architect, the owner shall indemnify and hold harmless the Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys fees, arising out of or resulting in whole or in part from such deviations, regardless of whether or not such claim, damage, loss or expense is caused by a party indemnified hereunder.
8. INTERIOR WALL, TYPE I: Dimensioned at 5" nominal, 5/8" gypsum drywall each side of 2x4 wood studs at 1'-4" on center.
9. Provide nonabsorbant finish and backing at Toilet Room walls and floors. Provide 4" base and water resistant gypsum drywall on surfaces adjacent to water closets, lavatories, mop basin and drinking fountains.
10. All wood in contact with earth, concrete, concrete masonry, clay masonry, or exposed to the weather shall be treated to resist decay.
11. Exit doors shall remain unlocked during normal occupancy.
12. The address (street number) location shall be shown on the building. Six-inch-tall numbers visible from the street shall be required. The address location is subject to approval of the

GENERAL FIRESTOPPING NOTES

1. Provide Firestopping systems at all membrane and through penetrations of rated wall of floor/ceiling systems. Contract with a single manufacturer for firestopping systems. Fire stopping manufacturer shall provide submittal of system(s), and provide for on site instruction and inspection of installation.
2. All assemblies shall have an "F" rating that matches the hourly fire rating.
3. Through Penetration Protection System = TPPS
4. For installations or configurations not covered by UL or FM design number, a recommendation shall be obtained from the manufacturer, in writing, for the specific application, signed by a certified engineer.
5. All materials shall be asbestos free and non-carcinogenic.
6. Firestop materials shall not contain flammable or toxic solvents and shall not produce toxic or flammable outgassing during the drying or curing process.
7. Firestopping materials and systems must be intumescent or be capable of filling through openings created by the burning or melting of combustible pipes, pipe insulation materials or cable jacketing and the deflection of sheet metal due to thermal expansion.
8. Firestop sealants must be elastomeric or flexible to allow for normal pipe movement.
9. Do not proceed to enclose firestopping with other construction until local building inspectors have inspected the work and have given approval to close the work.
10. Holes cut for penetrations shall be within allowable limits for TTPS. Typically, openings should allow for caulk or sealant beads around opening of at least 1/4" but no more than 1/2". Verify with each TTPS and manufacturer's technical representative.
11. After installation, properly identify all firestop systems. Identification shall occur at location where system has been installed and shall include:
    A. Identify the firestopping system that has been installed as being a "Rated Penetration Firestop System - Do Nor Disturb"
    B. Use label minimum 5" x 5", yellow and black OSHA colors with manufacturer, building owner representative and/or contractor clearly identified.
12. Penetrations of concrete or masonry wall assemblies by 6" maximum diameter, non-combustible pipe, conduit, or steel jacketed wires, in openings less than 144 square inches may be protected by filling the complete wall thickness, for the total perimeter of opening, with concrete, grout, or mortar.
13. All non rated full height walls shall have all voids firestopped to resist the passage of smoke.

SPECIFICATIONS

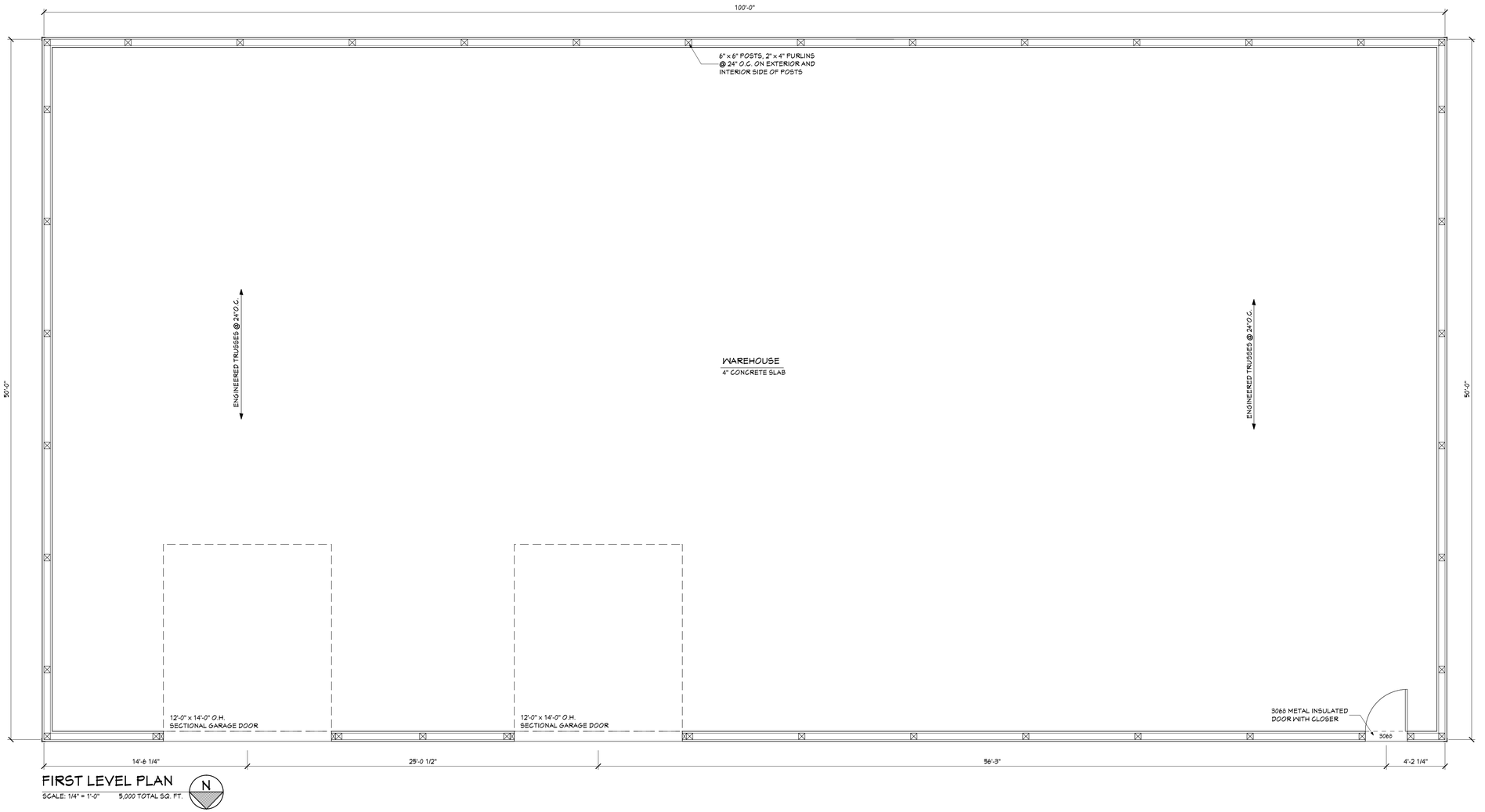
1 All door openings shall be protected with 1¾" flush solid core wood doors or 20-minute labeled fire-rated doors in smoke-tight, substantial frames and equipped with approved self-closing devices and non-locking-against-egress positive latching hardware.

2 Exit doors and all egress doors shall be side-hinged and equipped with approved hardware.

3 Storage rooms larger than 100 square feet require 1-hour fire resistive construction, including a minimum of 45-minute rated fire doors and frame assemblies equipped with an approved self-closing device and positive latching hardware. "B" labeled doors are acceptable.

4 Storage rooms 100 square feet or smaller shall be of 1-hour fire resistive construction. All door openings shall be protected with a minimum of 1¾" flush solid core wood doors or 20-minute labeled fire doors and frame assemblies equipped with an approved self-closing device and positive latching hardware.

5 Heating shall be by a central heating plant or an approved permanently installed electrical heating system. Heating plants located on the same floor as the children shall be in 1-hour fire resistive enclosures including a minimum of 45-minute rated fire doors and frame assemblies with approved self-closing devices and positive latching hardware in any interior openings. Door openings for heat plant enclosures not located on the same floor as the children may have 1¾" flush solid wood core doors or 20-minute labeled fire doors with positive latching hardware and approved self-closing devices. Air for proper combustion shall be provided directly from the outside at a minimum rate of 1 square inch per 4,000 BTUs input and through a permanently open louver or metal duct. "B" labeled doors are acceptable.



FIRST LEVEL PLAN

SCALE: 1/4" = 1'-0" 5,000 TOTAL SQ. FT.

N

LIZ HARROW, ARCHITECT
1141 Daisy Lane
East Lansing, MI 48823
517-803-8614

BUILDER:

CARPET DEPOT WAREHOUSE
7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
07- 20- 2022
01- 21- 2022
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GENERAL FOUNDATION PLAN NOTES

1. Do not scale these drawings, use dimensions indicated on the drawings and those verified at the project site. Any dimensions or areas that are unclear on the drawings shall be clarified by the owner's representative. Scaling of these drawings ot other methods to determine dimensions will not be acceptable.

2. Bottom of all footings exposed to frost shall be minimum of 3'-6" below grade. Verify grade with Civil Drawings.

3. Footing sizes are based on a soil bearing capacity of 3,000 pounds per square foot. Any bad soils encountered on the site should be brought to the attention of the site engineer

4. During construction, the contractor shall provide for testing of soil capacity and ground water elevations at footing locations. Testing shall be performed by a Soils Engineer licensed in the State of Michigan. Engineer shall submit report of findings and recommendations for foundations and ground water impact on foundation

5. Standard procedures of frost protection for footings and footing excavation shall be used for winter construction. Backfilling of footing excavations shall be done as soon as possible to protect footings from frost action.

6. Provide 1/2" Expansion material joint when concrete slabs and building foundations occur. All expansion joint material shall be premolded and installed per manufacturer's specification requirements. Isolation joints: Provide between slabs and vertical elements such as columns and strucural walls. Provide control joints in slabs on grade. Saw cuts must be made within 12 hours after slab pour. Joint depth shall be 1/4 depth of slab thickness.

7. Slope floor slabs to exterior doors.
   Provide control joints in floor slab at intervals not to exceed 20' x 20'.
   Provide control joints in exterior slabs at intervals not to exceed 10' x 10'.
   Provide control joints in sidewalk slabs at intervals not to exceed 5'x 5'.

8. Reiforcement:
   Bars: deformed steel, ASTM A15, Grade 60
   Mesh: welded steel wire fabric, ASTM A185

9. Concrete Materials
   Cement: portland cement, ASTM C 150, Type 1
   Aggregate: normal weight aggregates, ASTM c 33.
   Water-reducing Type super plasticizer as required for workability: euclid, sika, L&M or approved equal.

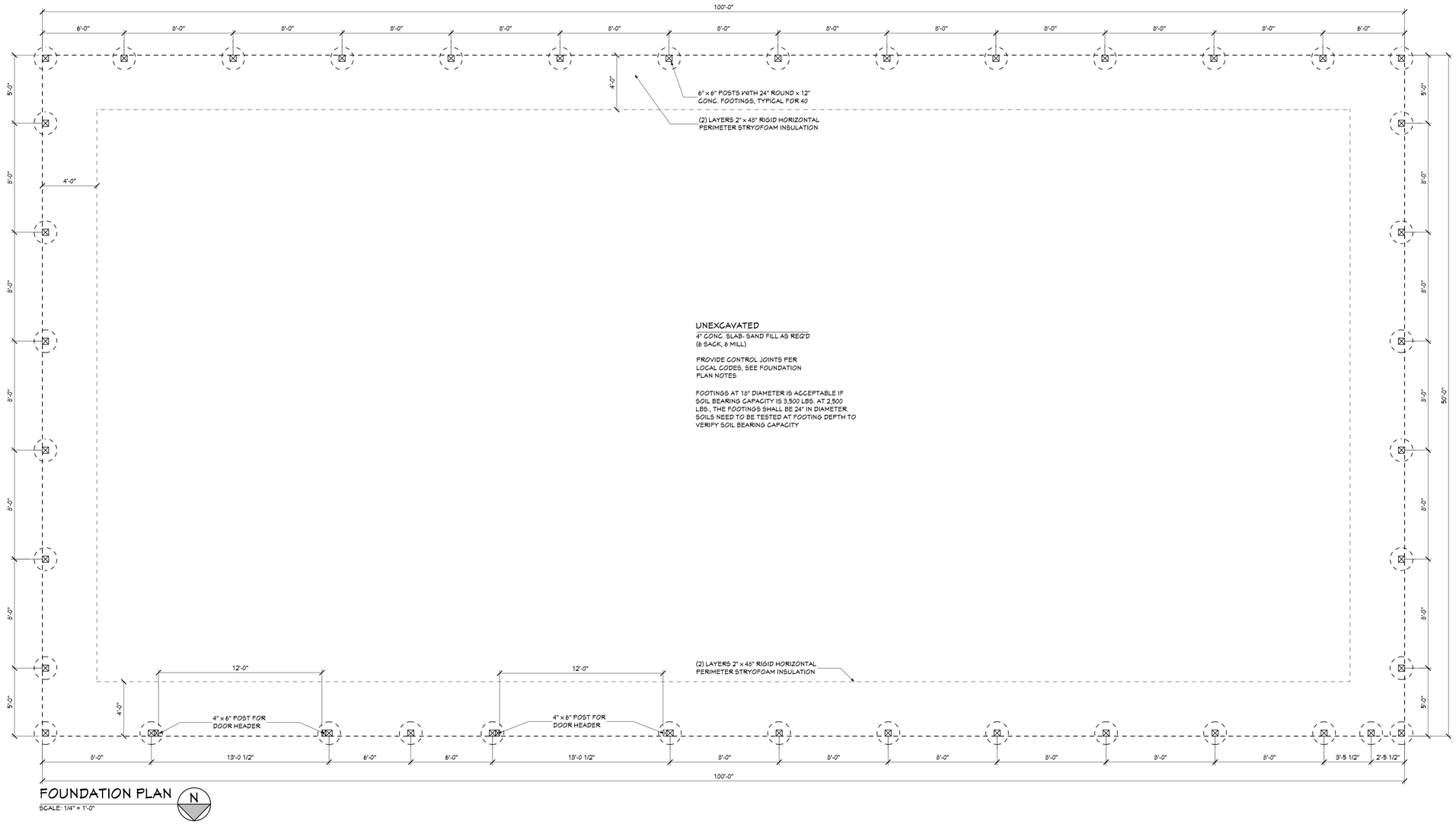
10. Miscellaneous materials:
    Hardener: non-metallic, quartz-silica, interior/exterior type, euclid surflex or equal
    Grout: non-metallic, non shrink type.

11. Concrete mixes:
    Standards: comply with ACI 301, 304, 305, 306, 311, 318, 347, CRSI " Manual of Standard Practice", and ASTM C94. Do not change mix design without approval.
    Calcium chloride admixtures are not permitted.
    Maximum slump of poured-in-place concrete shall be 3" for slabs-on-grade and 4" for all other concrete.
    For slabs-on-grade minimum flexural strength at end of 28 days shall be 650psi
    Minimum compressive strength at end of 28 days shall be:
    3,500 PSI Concrete shall be used at all interior concrete applications.
    4,000 PSI Concrete shall be used at all porch and exterior locations.

12. Patch all concrete floors where removed for sub grade work with 4,000 PSI concrete.

13. Tolerance: plus 1/8" in 10' for grade, alignment, and straightness.

14. Provide 6 mil moisture barrier beneath all slabs. Lap edges a minimum of 2'-0".



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

LIZ HARROW, ARCHITECT
1141 Daisy Lane
East Lansing, MI 48823
517-803-8614

BUILDER:

CARPET DEPOT WAREHOUSE
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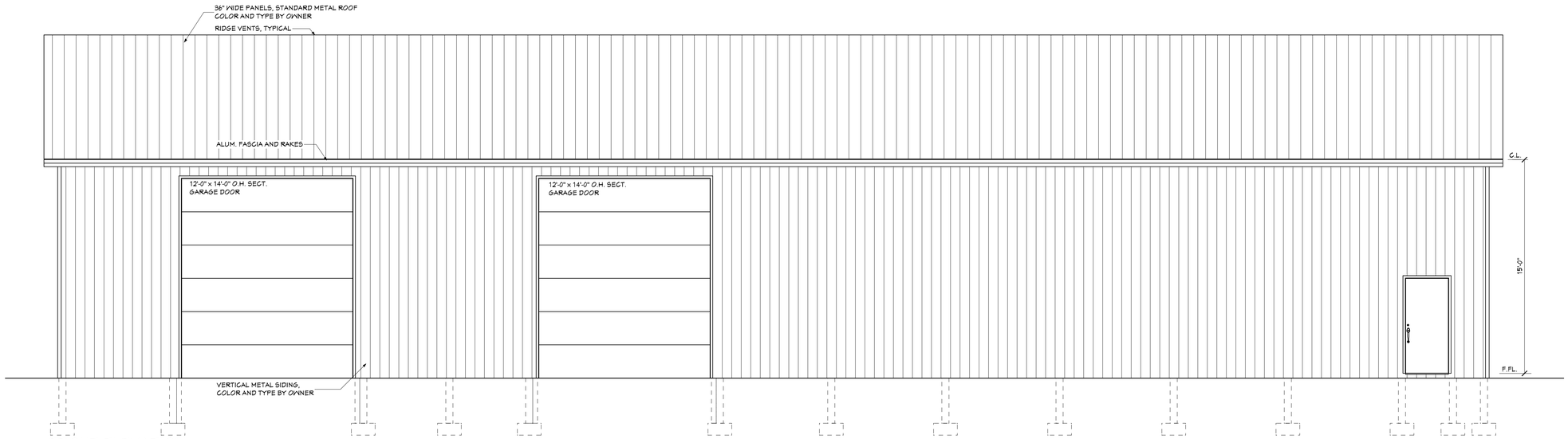

FRONT ELEVATION

SCALE: 1/4" = 1'-0"

BACK ELEVATION

SCALE: 1/4" = 1'-0"

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CARPET DEPOT
WAREHOUSE
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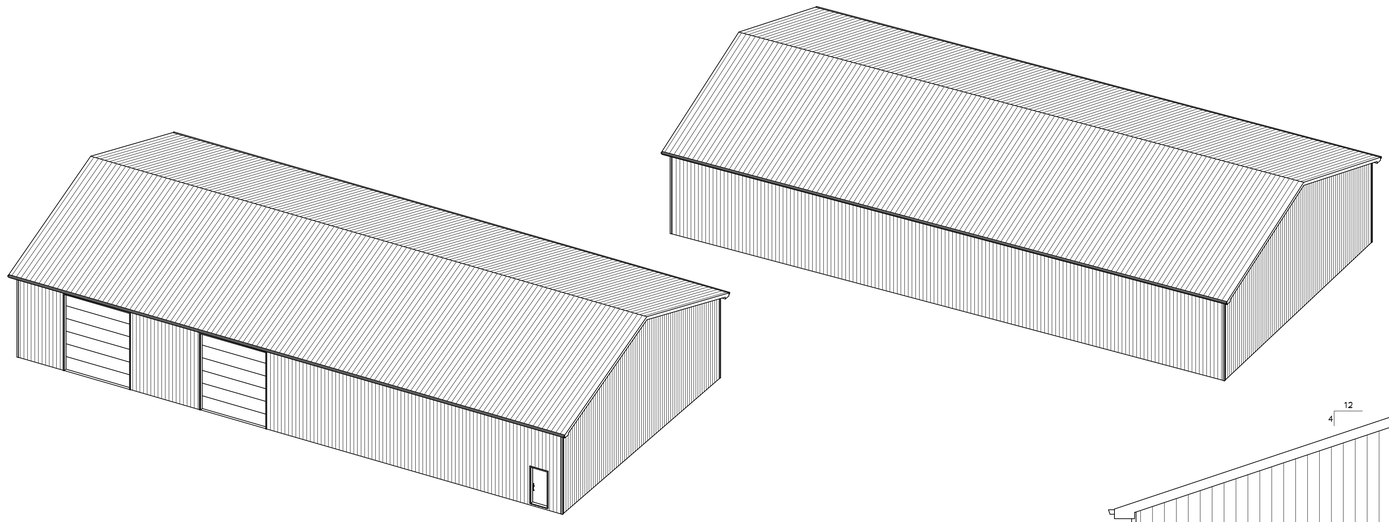
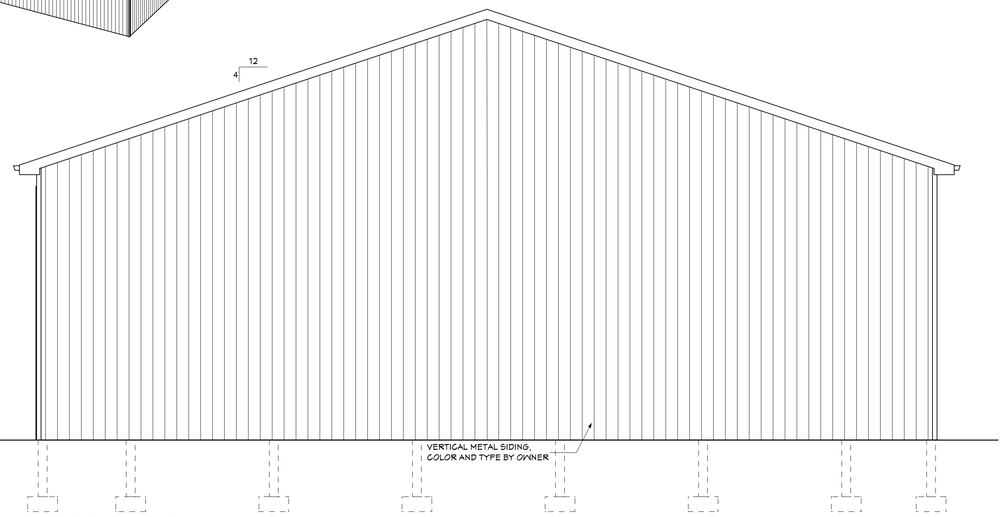
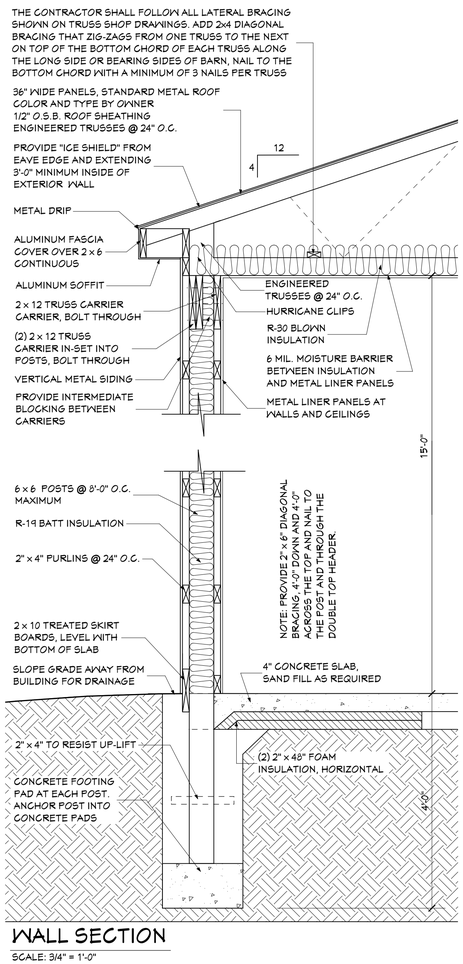




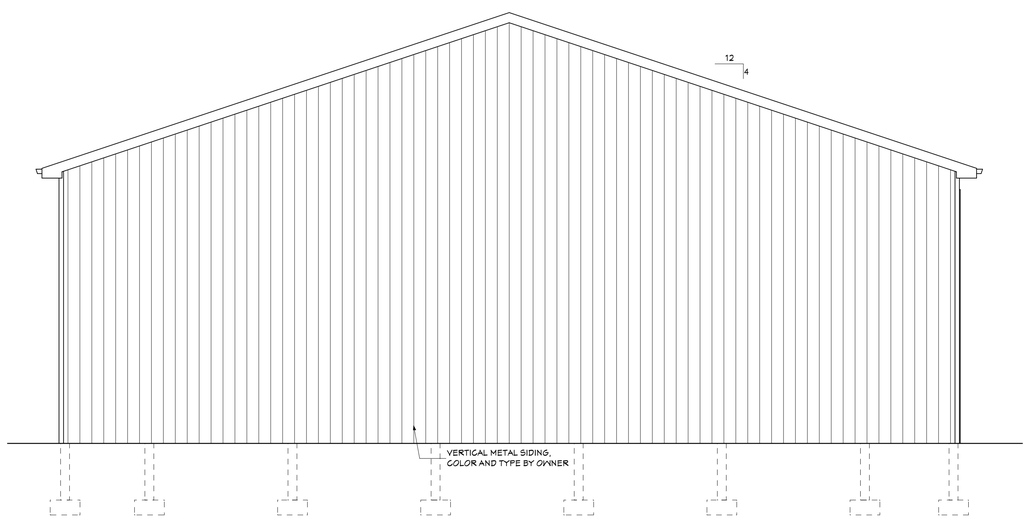
RIGHT ELEVATION

SCALE: 1/4" = 1'-0"



WALL SECTION

SCALE: 3/4" = 1'-0"



LEFT ELEVATION

SCALE: 1/4" = 1'-0"

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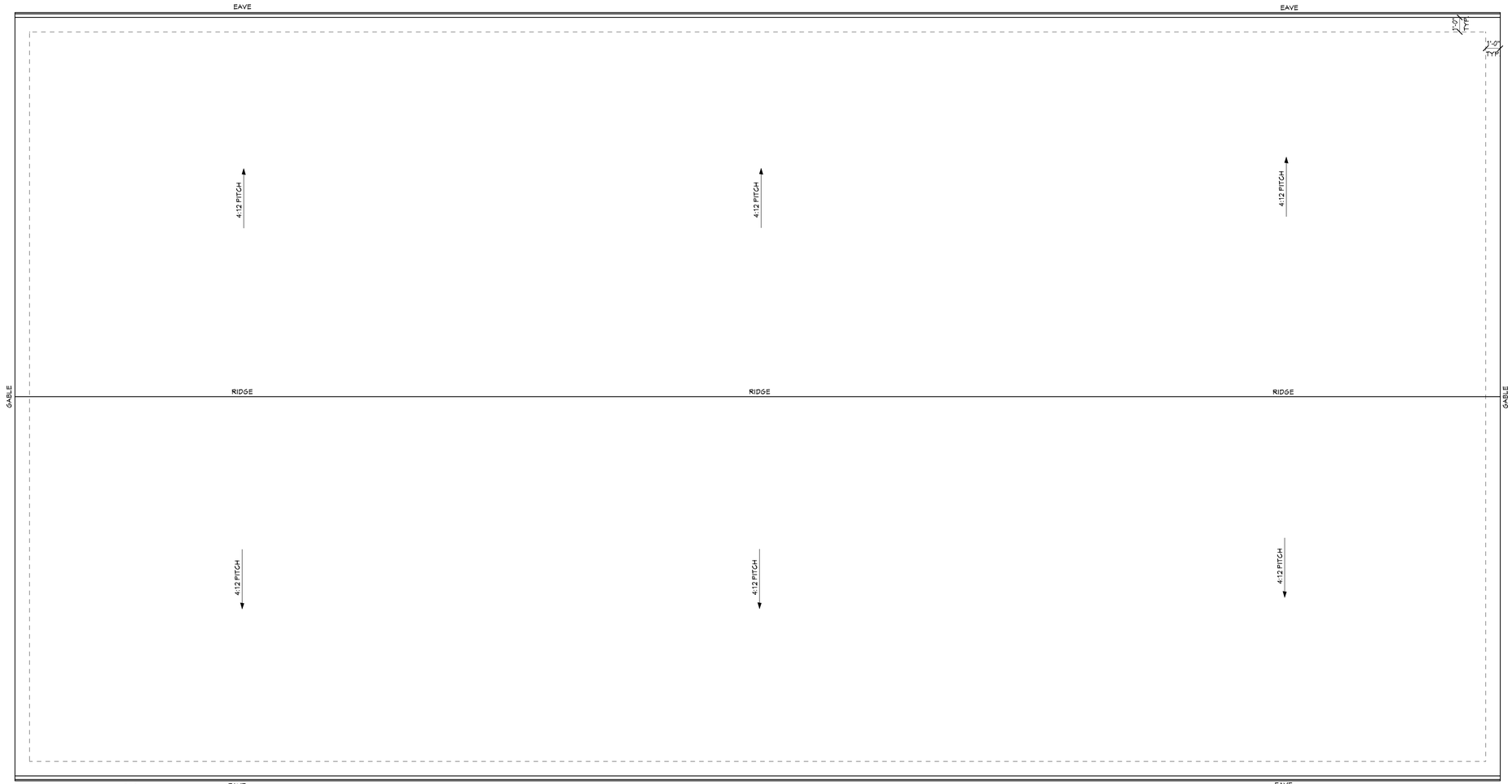
S1.3
PAGE NUMBER:

GENERAL FRAMING NOTES

1. Do not scale these drawings, use dimensions indicated on the drawings and those verified at the project site. Any dimensions or areas that are unclear on the drawings shall be clarified by the owner's representative. Scaling of the drawings or other methods to determine dimensions will not be acceptable.
2. All Contractors (General and Sub Contractors, Vendors, and Suppliers) shall review and verify all dimensions and shall notify architect in writing of any descrepancies prior to starting work. Starting work shall be contractor's acceptance of these documents being correct and valid as to their part of the work. Requests for changes based on these drawings after start of work will not be accepted.
3. Provide nailers, blocking and grounds where required. Set work plumb, level, and accurately cut.
4. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction.
5. Exterior doors concrete slab shall be flush with interior floor elevation with threshold no greater than 1/2" in height. Comply with barrier free design rules.
6. Structural wood framing requirements.
   Based on spruce-pine-fir #2 or better
   Fb= 875 psi Fc= 1,100 psi E=1,400,000 psi
7. Wood nailers, blocking, furring and sleepers: Construction grade, finish 4 sides, 15% moisture content
8. The maximum total deflection of wood beams shall not exceed 1/360 of the total span.
9. All wood beams shall have a minimum bearing of 4".
10. PLYWOOD: APA rated for use and exposure.
    Roof sheathing: APA sheathing, exterior
    Wall sheathing: APA sheathing, exterior
11. BUILDING PAPER: Asphalt saturated felt. Non-perforated
12. WOOD TREATMENT:
    Preservative Treatment: Pressure treated with waterborne preservatives, to comply with AWPB LP-2 or LP-22, as applicable. Kiln dry to 15% max. moisture content. Treat wood exposed to deterioration by moisture, such as items in contact with roofing, flashing, waterproofing, masonry, concrete, or the ground.
13. Comply with manufacturer's requirements for cutting, handling, fastening,and working with treated materials.
14. Treat wood subject to insect attack.
15. Window headers shall be (3) 2" x 8" or (2) 2" x 10" with 1/2" plywood spacer
16. Nailing Pattern: Plywood for Shear Roof Diaphram:
    8d common nails spaced at 6" on center at panel edge and 12" on center in the field of panel.
17. Nailing Pattern: Exterior Wall Sheathing::
    8d common nails spaced at 6" on center at panel edge and 12" on center in the field of panel.

ROOF FRAMING NOTES:

1. Do not scale the drawings, use dimensions indicated on the drawings, and those verified at the project site. Any demensions or areas that are unclear on the drawingss shall be clarified by the owner's representative. Scaling of these drawings or other methods to determine dimensions will not be accepted.
2. WOOD TREATMENT:
   Preservative treatment: Pressure-treated with waterborne preservatives, to comply with AWPB LP-2 or LP-22, as applicable. Kiln dry to 15% max. moisture content. Treat wood exposed to deterioration by moisture, such as items in contact with roofing, flashing, waterproofing, masonry, concrete, or the ground.
3. Comply with manufacturer's requirements for cutting, handling, fastening, and working with treated materials.
4. Treat wood subject to insect attack.
5. All sill/sole plates shall be pressure treated.
6. Provide diagonal bracing at all wall corners, at each floor level.
7. Provide triple studs at bearing locations.
8. Coordinate work with other trades.
9. PREFABRICATED WOOD TRUSSES:
   Provide a complete roof framing system that consists of a minimum of roof trusses, permanent lateral bracing, permanent diagonal bracing, strongbacks, and truss bearing connectors (wind hold down clips) and other materials as required.
10. PREFABRICATED WOOD TRUSSES:
    Provide prefabricated gable, mono sloped, scissor, and girder & special profile trusses as required: Submit for review shop drawings and product data prepared by the truss manufacturer's structural engineer licensed in the State of Michigan. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers.
11. PREFABRICATED WOOD TRUSSES:
    Truss profiles shown on drawings are generic and shall be verified with owner for each area. Provide trusses indicated, and special profile trusses as required to complete the project. Web members indicated are symbolic and the truss manufacturer's structural engineer shall engineer actual locations, spacing, connections and sizes of all truss chord, web and bracing members.
12. Provide plywood sheathing or horizontal ties as required by truss engineer to eliminate horizontal thrusts from scissor and other trusses onto exterior walls.
13. PREFABRICATED WOOD TRUSSES:
    Standard dimension lumber connected by metal plates. Wood: Softwood meeting stress rating and design requirements. Metal plates: galvanized sheet steel, ASTM A 446, Grade A, Coating G60
14. Deliver, handle, and store materials in accordance with manufacturer's instructions.
15. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent contruction. Coordinate with work of other sections. Restore damaged components, clean and protect work from damage. Provide temporary and permanent bracing as required by design engineer and truss manufacturer.
16. Roof Trusses shall be tied to wall below to resist wind uplift in compliance with MBC. Truss manufacturer shall indicate required fasteners on truss shop drawings.
17. Provide truss shop & permanent bracing drawings prepared by engineer licensed in the State of Michigan. Submit copies to the building authority.
18. Provide temporary bracing during construction and truss erection as required by truss manufacturer.
19. Provide permanent bracing as required by truss manufacturer and as shown on permanent bracing drawings prepared by truss manufacturer structural engineer licensed in State of Michigan. Part of permanent bracing drawings shall include nailing schedule for Bracing
20. Provide continuous diagonal bracing at each line of lateral bracing.
21. Lateral roof truss bracing shall overlap a minimum of one truss space. Butt joint ends of bracing shall not be allowed.
22. Contractor shall provide for inspection of installed tTruss & permanent bracing system by engineer licensed in the State of Michigan.
23. Provide nailers, blocking and grounds where required. Set work plum, level, and accurately cut.
24. Owner/ Contractor shall have the trusses and truss bracing inspection in accordance with section 1704.6 of the building code and in accordance with the truss manufacturer.



ROOF PLAN
SCALE: 1/4" = 1'-0"

N

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517-803-8674

BUILDER:

CARPET DEPOT WAREHOUSE
7878 E MICHIGAN 36
HAMBURG, MICHIGAN 48139

PLOT DATE:
07- 20- 2022
07- 21- 2022
08- 06- 2022

2284-22
PROJECT NUMBER:

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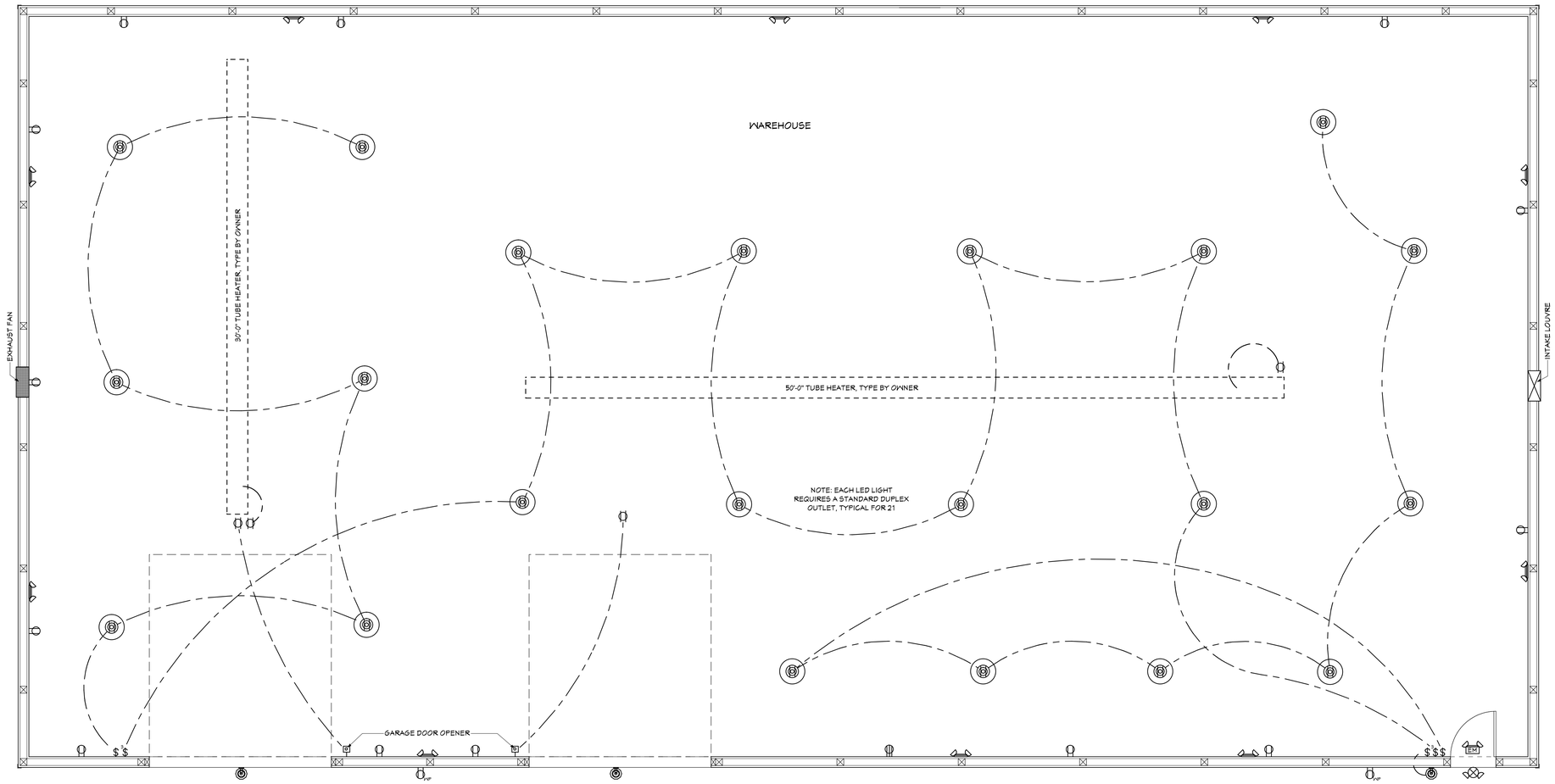
GENERAL MECHANICAL NOTES

1. Install new systems as shown on drawings and in specifications and as required for complete, fully operational systems.
2. Contractor shall field verify locations and sizes and routing before submitting bids. Relocate and/or replace existing equipment, ductwork, lighting, piping,valves, etc. as required to maintain operation of all systems.
3. Contractor shall verify all dimensions, structures, elevations, etc. and report to the construction manager any conflicts which may effect the work prior to starting. Any dimensions shown on the drawings are for reference only and shall be field verified prior to start of demolition or new work.
4. Arrange and pay for all permits and inspections required. All work shall be provided by a licensed contractor and in accordance with all state and local codes, and with the provisions of the latest editions.
5. Contractor(s) shall remove and haul away all debris, equipment, pipes, ducts, etc from the site immediately upon removal. Failure to remove and clean debris from areas promptly shall result in construction manager option to remove them at contractor's expense.
6. Fill all unused holes in floors and walls with grout and seal.
7. In finish areas, cut and patch existing walls as required, to install all new mechanical work, unless otherwise indicated.
8. Contractor shall leave adequate clearance around all new equipment, fittings, valves, electrical panels, etc. for service and operation.
9. Coordinate entire installation of the HVAC system with the work of other trades prior to any fabrication or installation. Provide all fitting, offsets, and transitions as required for a complete workable installation.
10. Maintenance label shall be affixed to all mechanical equipment and a maintenance manual shall be provided for the owner's use.
11. Refer to electrical drawings and specifications for all electrical devices required.
12. All equipment, ductwork, piping, and other devices and materials installed outside of the building or otherwise exposed to the weather shall be completely weatherproofed.
13. All outside air intakes shall be a min 10'-0" from any exhaust fan discharge, piping vents, and other exhaust system.
14. Each mechanical and electrical trade shall provide membrane and through penetration fire stop systems as required by the code, and shall submit methods of fire stopping to the building official for approval prior to work starting.
15. All gas piping by mechanical contractor.
16. All fresh air ducts and exhaust fan ducts shall be terminated to the exterior of the building envelope via a weatherproof cap. Terminating into the attic shall not be permitted.
17. Builder/ Developer to provide a concrete pad for condensing units if required.

GENERAL ELECTRICAL NOTES AND SPECIFICATIONS

1. All work shall be done in acordance with the latest edition of the National Electrical Code (NEC), and all state and local codes.
2. Coordinate the installation of all electrical equipment and connections with architectural and mechanical plans and equipment drawings.
3. All conductors shall be copper, aluminum conductors will not be acceptable.
4. Motor loads which are less than 6.0 amps shall be protected by a 15 amp circuit breaker.
5. Final connection to items subject to vibration shall be made with flexible metallic or liquidtite flexible metallic conduit. Install liquidtite flexible conduit in wet, damp, or corrosive atmosphere locations. Flexible metallic conduit or liquidtite flexible metallic conduit will not be approved for use as a grounding conductor. A seperate green ground wire shall be installed in all flexible metallic conduit and liquidtite flexible metallic conduit.
6. All disconnect switches shall be standard duty type. Disconnect switches installed indoors shall be NEMA type 1. Weatherproof disconnect switches shall be NEMA type 3R.
7. All circuit breakers controlling or switching light fixtures shall be "SWD" rated. All circuit breakers controlling HVAC equipment shall be "HACR" rated.
8. All receptacles installed on 15 amp and 20 amp circuits shall be of the grounding type.
9. All fractional horsepower motor starters shall consist of a horsepower rated toggle switch, thermal overload and red pilot light in a common enclosure. Enclosure shall be NEMA type 1 for indoor locations and NEMA type 3R for outdoor locations.
10. Back to back or through wall boxes shall not be used. Boxes installed on opposite sides of a fire rated partition shall be separated by 24" min.
11. All conduits run in floor slab shall be spaced a minimum of one conduit diameter apart except where they rise to a panel.
12. All device mountings heights shall comply with the State of Michigan barrier free requirements.
13. Electrical and data lines to be verified with lessee before construction begins
14. Battery back-up exit and emergency lights shall be fed from the same circuit as normal lighting in their respective areas and be connected ahead of any local switches. Provide power for exterior signs
15. Exit signs shall be internally or externally illuminated at all times. To ensure continued illumination for a duration of not less than 90 minutes, in case of primary power loss, the sign illumination means shall be connected to an emergency power system provided from storage batteries, unit equipment, or an on-site generator.
16. All detectors shall be installed and maintained in operable condition per their manufacturer's recommendations.
17. Multi-purpose fire extinguishers with a minimum 2A-10BC classification shall be installed in or adjacent to the door of the heat plant room.



FIRST LEVEL PLAN: ELECTRICAL/ MECHANICAL

SCALE: 1/4" = 1'-0"

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FIXTURE LEGEND

LIGHT SWITCH	$ $3
220 OUTLET	
DUPLEX OUTLET	
WATER PROOF EXTERIOR OUTLET	WP
EMERGENCY EXIT LIGHT	
EMERGENCY EGRESS LIGHT	EM
EMERGENCY FLOOD LIGHT	
EXTERIOR WALL PACK/ LIGHT	
LED LIGHT FIXTURE	

NOTE: EACH LED LIGHT REQUIRES A STANDARD DUPLEX

HVAC SPECIFICATIONS

1. THERMOSTATS:
   1) Comfort Sense 5000
2. 02/ CO2 Detector: Macurco Cm6, Tx6 O2 Sensor interlocked with exhaust fan
3. Exhaust Fan: 24" Cook, 5000 cfm , 240v, 6.5 amps, with matching intake louvre.
4. Tube Heater: Gordon Ray, BH 140, 140,000 BTU, 120v, 1 amp, verify with HVAC contractor
5. Make up air requirements based on Mechanical Code table 403.3

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